Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Atkinson and Boore (1995) model
Median stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 6 - 15 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-3.99631	2.41745	0.07153	-2.52496	1.78830	-0.00182	4.47043	0.36051	-0.05124	0.56590
PGV	2.93935	1.41774	-0.07052	-2.21504	1.47253	-0.00325	3.52281	0.40902	-0.04460	0.59968
PGA	-0.57295	1.45980	-0.01166	-2.12271	1.08240	-0.00364	1.60139	0.59924	-0.02175	0.74988
0.01000	-0.31453	1.47690	-0.00766	-2.17702	1.05657	-0.00358	1.73615	0.59491	0.00517	0.67575
0.01024	-0.30314	1.47864	-0.00711	-2.18004	1.05298	-0.00356	1.73761	0.59548	0.00530	0.67600
0.01048	-0.28898	1.48041	-0.00654	-2.18360	1.04938	-0.00355	1.74046	0.59597	0.00541	0.67633
0.01072	-0.27173	1.48224	-0.00597	-2.18774	1.04572	-0.00354	1.74491	0.59636	0.00551	0.67673
0.01097	-0.25118	1.48414	-0.00539	-2.19251	1.04196	-0.00353	1.75104	0.59665	0.00559	0.67718
0.01123	-0.22739	1.48611	-0.00478	-2.19791	1.03804	-0.00351	1.75874	0.59686	0.00566	0.67771
0.01150	-0.20055	1.48817	-0.00415	-2.20389	1.03391	-0.00349	1.76783	0.59701	0.00572	0.67833
0.01177	-0.16985	1.49033	-0.00349	-2.21060	1.02951	-0.00347	1.77881	0.59707	0.00576	0.67906
0.01205	-0.13455	1.49264	-0.00281	-2.21821	1.02475	-0.00345	1.79208	0.59703	0.00579	0.67988
0.01233	-0.09488	1.49510	-0.00211	-2.22666	1.01952	-0.00343	1.80736	0.59692	0.00581	0.68081
0.01262	-0.05198	1.49773	-0.00136	-2.23576	1.01377	-0.00341	1.82370	0.59682	0.00581	0.68188
0.01292	-0.00627	1.50054	-0.00055	-2.24544	1.00764	-0.00338	1.84073	0.59674	0.00580	0.68313
0.01322	0.04296	1.50355	0.00032	-2.25582	1.00117	-0.00335	1.85889	0.59665	0.00576	0.68458
0.01353	0.09688	1.50676	0.00126	-2.26711	0.99425	-0.00332	1.87894	0.59653	0.00571	0.68623
0.01385	0.15704	1.51019	0.00226	-2.27960	0.98672	-0.00329	1.90187	0.59633	0.00566	0.68801
0.01417	0.22519	1.51391	0.00330	-2.29364	0.97848	-0.00325	1.92880	0.59598	0.00563	0.68985
0.01451	0.30118	1.51792	0.00440	-2.30915	0.96925	-0.00321	1.95960	0.59553	0.00558	0.69189
0.01485	0.38243	1.52215	0.00556	-2.32551	0.95871	-0.00317	1.99253	0.59510	0.00551	0.69435
0.01520	0.46644	1.52654	0.00678	-2.34221	0.94683	-0.00312	2.02571	0.59481	0.00540	0.69722
0.01556	0.54953	1.53105	0.00805	-2.35859	0.93378	-0.00308	2.05631	0.59478	0.00530	0.70021
0.01592	0.62539	1.53566	0.00937	-2.37349	0.91960	-0.00303	2.07944	0.59529	0.00527	0.70296
0.01630	0.69019	1.54041	0.01073	-2.38625	0.90434	-0.00299	2.09231	0.59650	0.00533	0.70531
0.01668	0.74788	1.54536	0.01214	-2.39759	0.88787	-0.00294	2.09824	0.59821	0.00549	0.70734
0.01707	0.80507	1.55045	0.01355	-2.40858	0.86990	-0.00290	2.10277	0.60011	0.00571	0.70916
0.01748	0.86672	1.55560	0.01492	-2.42004	0.85070	-0.00285	2.11030	0.60192	0.00597	0.71099
0.01789	0.93380	1.56075	0.01628	-2.43206	0.83073	-0.00280	2.12201	0.60356	0.00622	0.71309
0.01831	1.00067	1.56592	0.01766	-2.44373	0.81010	-0.00276	2.13336	0.60526	0.00648	0.71527
0.01874	1.05147	1.57114	0.01914	-2.45241	0.78872	-0.00271	2.13167	0.60775	0.00682	0.71712
0.01918	1.07212	1.57637	0.02078	-2.45567	0.76672	-0.00268	2.10653	0.61159	0.00724	0.71851
0.01963	1.06405	1.58142	0.02258	-2.45359	0.74449	-0.00265	2.06104	0.61662	0.00773	0.71953
0.02009	1.04187	1.58614	0.02440	-2.44855	0.72262	-0.00263	2.00853	0.62208	0.00831	0.72000
0.02057	1.01864	1.59047	0.02600	-2.44284	0.70176	-0.00262	1.95951	0.62729	0.00902	0.71956
0.02105	0.99293	1.59425	0.02722	-2.43624	0.68212	-0.00261	1.91272	0.63226	0.00986	0.71821
0.02154	0.95560	1.59727	0.02812	-2.42703	0.66340	-0.00260	1.86148	0.63740	0.01079	0.71614
0.02205	0.90593	1.59957	0.02888	-2.41517	0.64568	-0.00260	1.80537	0.64277	0.01181	0.71331
0.02257	0.85528	1.60156	0.02968	-2.40311	0.63016	-0.00261	1.75228	0.64788	0.01290	0.70979
0.02310	0.81126	1.60358	0.03064	-2.39248	0.61780	-0.00262	1.70744	0.65236	0.01397	0.70617
0.02364	0.76782	1.60552	0.03180	-2.38203	0.60796	-0.00264	1.66677	0.65648	0.01494	0.70291
0.02420	0.71218	1.60706	0.03308	-2.36919	0.59978	-0.00266	1.62161	0.66088	0.01578	0.70011
0.02477	0.64025	1.60800	0.03436	-2.35324	0.59301	-0.00270	1.56897	0.66577	0.01650	0.69767
0.02535	0.56267	1.60831	0.03544	-2.33615	0.58771	-0.00273	1.51491	0.67070	0.01716	0.69537
0.02595	0.49318	1.60794	0.03613	-2.32033	0.58381	-0.00277	1.46697	0.67504	0.01783	0.69274
0.02656	0.43594	1.60699	0.03635	-2.30644	0.58103	-0.00280	1.42713	0.67862	0.01865	0.68907
0.02719	0.38428	1.60577	0.03618	-2.29331	0.57893	-0.00283	1.39192	0.68179	0.01969	0.68412
0.02783	0.33204	1.60446	0.03577	-2.27973	0.57674	-0.00286	1.35872	0.68489	0.02082	0.67882
0.02848	0.28264	1.60331	0.03521	-2.26639	0.57331	-0.00289	1.32954	0.68780	0.02191	0.67380
0.02915	0.24254	1.60274	0.03465	-2.25492	0.56813	-0.00291	1.30731	0.69028	0.02296	0.66884
0.02984	0.21237	1.60312	0.03424	-2.24595	0.56224	-0.00293	1.29170	0.69233	0.02400	0.66393
0.03054	0.18478	1.60440	0.03409	-2.23839	0.55814	-0.00295	1.27851	0.69421	0.02498	0.65935
0.03126	0.14930	1.60599	0.03423	-2.22995	0.55851	-0.00299	1.26258	0.69623	0.02586	0.65555
0.03199	0.10457	1.60716	0.03452	-2.21975	0.56356	-0.00304	1.24312	0.69835	0.02657	0.65288
0.03275	0.05611	1.60768	0.03473	-2.20860	0.57122	-0.00310	1.22212	0.70042	0.02718	0.65082
0.03352	0.00407	1.60738	0.03482	-2.19658	0.57962	-0.00316	1.19873	0.70254	0.02783	0.64840
0.03430	-0.05798	1.60582	0.03491	-2.18218	0.58805	-0.00322	1.16964	0.70504	0.02853	0.64519
0.03511	-0.13390	1.60278	0.03517	-2.16438	0.59652	-0.00328	1.13374	0.70807	0.02926	0.64140
0.03594	-0.22062	1.59862	0.03552	-2.14387	0.60495	-0.00334	1.09326	0.71154	0.02998	0.63732
0.03678	-0.30808	1.59401	0.03569	-2.12290	0.61301	-0.00341	1.05334	0.71503	0.03060	0.63379
0.03765	-0.38378	1.58963	0.03541	-2.10423	0.62045	-0.00346	1.01980	0.71793	0.03106	0.63167
0.03854	-0.44094	1.58573	0.03450	-2.08938	0.62705	-0.00350	0.99521	0.71989	0.03134	0.63104
0.03944	-0.47880	1.58205	0.03299	-2.07818	0.63297	-0.00354	0.97968	0.72080	0.03149	0.63155
0.04037	-0.49938	1.57826	0.03105	-2.06978	0.63954	-0.00357	0.97308	0.72056	0.03157	0.63257
0.04132	-0.50930	1.57433	0.02902	-2.06281	0.64789	-0.00360	0.97339	0.71939	0.03171	0.63290
0.04229	-0.51808	1.57046	0.02725	-2.05575	0.65786	-0.00365	0.97647	0.71787	0.03211	0.63108
0.04329	-0.53385	1.56676	0.02597	-2.04736	0.66875	-0.00370	0.97806	0.71659	0.03283	0.62657
0.04431	-0.56145	1.56327	0.02525	-2.03694	0.67986	-0.00376	0.97521	0.71595	0.03378	0.62018
0.04535	-0.60310	1.56013	0.02499	-2.02435	0.69022	-0.00382	0.96610	0.71621	0.03479	0.61299

0.04642	-0.65892	1.55738	0.02500	-2.00985	0.69885	-0.00388	0.94973	0.71752	0.03573	0.60597
0.04751	-0.72995	1.55461	0.02513	-1.99304	0.70545	-0.00394	0.92484	0.71999	0.03645	0.60015
0.04863	-0.81697	1.55098	0.02521	-1.97305	0.71145	-0.00399	0.89103	0.72361	0.03684	0.59640
0.04977	-0.91473	1.54580	0.02515	-1.95009	0.71893	-0.00405	0.85139	0.72793	0.03691	0.59490
0.05094	-1.01062	1.53908	0.02487	-1.92635	0.72884	-0.00411	0.81235	0.73207	0.03676	0.59486
0.05214	-1.09184	1.53134	0.02426	-1.90445	0.74050	-0.00417	0.77975	0.73520	0.03646	0.59588
0.05337	-1.15251	1.52324	0.02323	-1.88587	0.75238	-0.00423	0.75603	0.73698	0.03592	0.59851
0.05462	-1.19412	1.51536	0.02183	-1.87076	0.76337	-0.00427	0.74049	0.73755	0.03514	0.60297
0.05591	-1.22205	1.50771	0.02017	-1.85818	0.77315	-0.00431	0.73044	0.73732	0.03420	0.60851
0.05722	-1.24294	1.49991	0.01837	-1.84669	0.78221	-0.00434	0.72260	0.73672	0.03323	0.61431
0.05857	-1.26107	1.49217	0.01656	-1.83580	0.79165	-0.00438	0.71550	0.73601	0.03233	0.61965
0.05995	-1.27644	1.48545	0.01480	-1.82650	0.80161	-0.00441	0.70981	0.73516	0.03165	0.62345
0.06136	-1.28747	1.48034	0.01295	-1.81974	0.81111	-0.00443	0.70645	0.73409	0.03137	0.62467
0.06280	-1.29349	1.47660	0.01083	-1.81542	0.81997	-0.00444	0.70577	0.73270	0.03145	0.62348
0.06428	-1.29535	1.47341	0.00838	-1.81257	0.82930	-0.00446	0.70765	0.73084	0.03165	0.62160
0.06579	-1.29554	1.47014	0.00566	-1.81013	0.84021	-0.00447	0.71136	0.72852	0.03165	0.62087
0.06734	-1.29681	1.46687	0.00280	-1.80764	0.85307	-0.00449	0.71619	0.72585	0.03137	0.62160
0.06893	-1.30003	1.46397	-0.00013	-1.80529	0.86732	-0.00452	0.72196	0.72295	0.03098	0.62270
0.07055	-1.30321	1.46169	-0.00311	-1.80370	0.88197	-0.00455	0.72942	0.71978	0.03069	0.62264
0.07221	-1.30438	1.46000	-0.00609	-1.80313	0.89659	-0.00458	0.73922	0.71628	0.03059	0.62090
0.07391	-1.30437	1.45850	-0.00899	-1.80308	0.91097	-0.00460	0.75046	0.71258	0.03058	0.61828
0.07565	-1.30568	1.45649	-0.01180	-1.80256	0.92402	-0.00462	0.76076	0.70900	0.03046	0.61610
0.07743	-1.31213	1.45319	-0.01452	-1.80017	0.93437	-0.00463	0.76718	0.70591	0.03008	0.61538
0.07925	-1.32828	1.44819	-0.01711	-1.79456	0.94151	-0.00464	0.76713	0.70369	0.02940	0.61643
0.08111	-1.35478	1.44169	-0.01960	-1.78567	0.94610	-0.00463	0.76062	0.70237	0.02845	0.61919
0.08302	-1.38603	1.43452	-0.02210	-1.77522	0.94956	-0.00463	0.75102	0.70152	0.02734	0.62331
0.08498	-1.41389	1.42753	-0.02472	-1.76549	0.95300	-0.00462	0.74286	0.70051	0.02619	0.62818
0.08697	-1.43234	1.42118	-0.02751	-1.75801	0.95688	-0.00460	0.73953	0.69883	0.02507	0.63335
0.08902	-1.43792	1.41576	-0.03040	-1.75364	0.96176	-0.00459	0.74348	0.69609	0.02398	0.63884
0.09112	-1.43066	1.41148	-0.03334	-1.75258	0.96825	-0.00457	0.75539	0.69221	0.02291	0.64467
0.09326	-1.41162	1.40836	-0.03631	-1.75472	0.97700	-0.00456	0.77513	0.68725	0.02189	0.65053
0.09545	-1.38141	1.40620	-0.03932	-1.75985	0.98852	-0.00455	0.80242	0.68130	0.02100	0.65608
0.09770	-1.34012	1.40467	-0.04240	-1.76768	1.00302	-0.00454	0.83726	0.67441	0.02024	0.66130
0.10000	-1.29009	1.40356	-0.04544	-1.77751	1.01996	-0.00454	0.87874	0.66684	0.01953	0.66647
0.10235	-1.23595	1.40281	-0.04839	-1.78835	1.03821	-0.00454	0.92493	0.65898	0.01890	0.67132
0.10476	-1.18365	1.40225	-0.05119	-1.79890	1.05650	-0.00455	0.97265	0.65132	0.01835	0.67556
0.10723	-1.14008	1.40153	-0.05377	-1.80749	1.07374	-0.00456	1.01782	0.64429	0.01784	0.67933
0.10975	-1.11292	1.40034	-0.05610	-1.81239	1.08916	-0.00457	1.05545	0.63838	0.01739	0.68257
0.11233	-1.10727	1.39852	-0.05819	-1.81246	1.10279	-0.00459	1.08174	0.63386	0.01697	0.68552
0.11498	-1.12480	1.39598	-0.06008	-1.80730	1.11506	-0.00462	1.09507	0.63077	0.01658	0.68834
0.11768	-1.16601	1.39262	-0.06180	-1.79671	1.12605	-0.00465	1.09460	0.62914	0.01620	0.69109
0.12045	-1.22955	1.38839	-0.06334	-1.78087	1.13575	-0.00469	1.08093	0.62889	0.01576	0.69425
0.12328	-1.31340	1.38325	-0.06471	-1.76006	1.14335	-0.00473	1.05493	0.62999	0.01515	0.69846
0.12619	-1.41127	1.37733	-0.06602	-1.73568	1.14770	-0.00477	1.01989	0.63222	0.01436	0.70395
0.12916	-1.51266	1.37133	-0.06732	-1.71047	1.14847	-0.00480	0.98235	0.63499	0.01347	0.71014
0.13219	-1.61197	1.36566	-0.06862	-1.68594	1.14559	-0.00481	0.94569	0.63798	0.01247	0.71706
0.13531	-1.70558	1.36082	-0.06994	-1.66327	1.13982	-0.00481	0.91221	0.64096	0.01144	0.72430
0.13849	-1.79552	1.35701	-0.07116	-1.64223	1.13266	-0.00480	0.88119	0.64401	0.01041	0.73168
0.14175	-1.88455	1.35411	-0.07218	-1.62225	1.12565	-0.00479	0.85103	0.64726	0.00940	0.73895
0.14508	-1.97336	1.35195	-0.07296	-1.60318	1.11918	-0.00478	0.82082	0.65078	0.00842	0.74597
0.14850	-2.05754	1.35017	-0.07376	-1.58568	1.11342	-0.00477	0.79213	0.65423	0.00744	0.75295
0.15199	-2.13512	1.34807	-0.07475	-1.56934	1.10938	-0.00476	0.76597	0.65728	0.00639	0.76043
0.15557	-2.20126	1.34622	-0.07599	-1.55567	1.10652	-0.00475	0.74519	0.65955	0.00534	0.76797
0.15923	-2.26152	1.34428	-0.07724	-1.54326	1.10418	-0.00473	0.72672	0.66144	0.00430	0.77554
0.16298	-2.31854	1.34224	-0.07845	-1.53162	1.10161	-0.00472	0.70910	0.66318	0.00335	0.78261
0.16681	-2.37605	1.33954	-0.07954	-1.51946	1.09783	-0.00469	0.68987	0.66513	0.00225	0.79095
0.17074	-2.43328	1.33625	-0.08059	-1.50689	1.09320	-0.00466	0.66996	0.66716	0.00108	0.80002
0.17475	-2.48351	1.33381	-0.08181	-1.49662	1.08892	-0.00463	0.65394	0.66867	0.00027	0.80704
0.17887	-2.52639	1.33162	-0.08337	-1.48826	1.08290	-0.00459	0.64101	0.66968	-0.00021	0.81224
0.18307	-2.56424	1.33015	-0.08507	-1.48184	1.07567	-0.00454	0.63064	0.67033	-0.00033	0.81514
0.18738	-2.60273	1.32863	-0.08681	-1.47548	1.06714	-0.00448	0.61981	0.67101	-0.00031	0.81691
0.19179	-2.64233	1.32787	-0.08845	-1.46995	1.05791	-0.00442	0.60930	0.67171	-0.00007	0.81698
0.19631	-2.67843	1.32899	-0.08999	-1.46733	1.04996	-0.00437	0.60251	0.67191	0.00049	0.81444
0.20092	-2.71233	1.33005	-0.09154	-1.46536	1.04248	-0.00431	0.59727	0.67165	0.00108	0.81141
0.20565	-2.73940	1.33171	-0.09324	-1.46568	1.03651	-0.00426	0.59621	0.67049	0.00165	0.80812
0.21049	-2.75934	1.33431	-0.09512	-1.46878	1.03236	-0.00420	0.59983	0.66836	0.00241	0.80342
0.21544	-2.77059	1.33780	-0.09721	-1.47496	1.02995	-0.00415	0.60899	0.66509	0.00316	0.79861
0.22051	-2.77532	1.34197	-0.09936	-1.48371	1.02726	-0.00409	0.62270	0.66088	0.00385	0.79392
0.22570	-2.77137	1.34663	-0.10162	-1.49515	1.02537	-0.00402	0.64264	0.65545	0.00450	0.78935
0.23101	-2.75920	1.35133	-0.10407	-1.50863	1.02479	-0.00395	0.66864	0.64884	0.00494	0.78609
0.23645	-2.73829	1.35550	-0.10682	-1.52353	1.02695	-0.00389	0.70156	0.64093	0.00497	0.78566
0.24201	-2.70231	1.35860	-0.11020	-1.54058	1.03136	-0.00383	0.74471	0.63120	0.00462	0.78823
0.24771	-2.65507	1.36259	-0.11369	-1.56107	1.03815	-0.00377	0.79916	0.62019	0.00436	0.79018
0.25354	-2.60738	1.36666	-0.11696	-1.58191	1.04639	-0.00372	0.85983	0.60876	0.00394	0.79318
0.25950	-2.55352	1.37007	-0.12028	-1.60374	1.05272	-0.00365	0.92904	0.59663	0.00330	0.79750
0.26561	-2.48838	1.37448	-0.12363	-1.62896	1.06282	-0.00360	1.01341	0.58346	0.00270	0.80167
0.27186	-2.41022	1.37893	-0.12721	-1.65699	1.07694	-0.00355	1.11496	0.56920	0.00213	0.80595
0.27826	-2.32622	1.38275	-0.13092	-1.68576	1.09450	-0.00352	1.23000	0.55441	0.00147	0.81108
0.28480	-2.23861	1.38647	-0.13462	-1.71549	1.11326	-0.00348	1.35792	0.53948	0.00065	0.81707
0.29150	-2.15392	1.39071	-0.13811	-1.74537	1.13390	-0.00345	1.49525	0.52495	-0.00010	0.82227
0.29836	-2.07835	1.39476	-0.14129	-1.77365	1.15472	-0.00343	1.63554	0.51115	-0.00107	0.82853

0.30539	-2.01021	1.39918	-0.14407	-1.80111	1.17669	-0.00342	1.78058	0.49795	-0.00201	0.83410
0.31257	-1.92739	1.40460	-0.14716	-1.83270	1.20274	-0.00341	1.94990	0.48430	-0.00288	0.83926
0.31993	-1.84776	1.40968	-0.15034	-1.86372	1.22822	-0.00340	2.12749	0.47102	-0.00371	0.84400
0.32745	-1.77165	1.41422	-0.15368	-1.89401	1.25053	-0.00337	2.31170	0.45813	-0.00449	0.84811
0.33517	-1.70504	1.41973	-0.15683	-1.92360	1.27530	-0.00336	2.49943	0.44600	-0.00487	0.84917
0.34304	-1.64563	1.42496	-0.16011	-1.95176	1.30025	-0.00335	2.69011	0.43432	-0.00509	0.84909
0.35112	-1.60319	1.42948	-0.16338	-1.97593	1.32583	-0.00335	2.87388	0.42334	-0.00523	0.84797
0.35938	-1.57243	1.43399	-0.16651	-1.99789	1.34949	-0.00336	3.05526	0.41295	-0.00525	0.84553
0.36784	-1.54847	1.43861	-0.16964	-2.01899	1.37006	-0.00335	3.23787	0.40297	-0.00512	0.84203
0.37649	-1.53441	1.44303	-0.17273	-2.03800	1.39009	-0.00335	3.41848	0.39343	-0.00487	0.83756
0.38536	-1.54174	1.44682	-0.17565	-2.05226	1.40763	-0.00335	3.58227	0.38458	-0.00468	0.83314
0.39442	-1.56516	1.45050	-0.17846	-2.06329	1.42313	-0.00334	3.73251	0.37637	-0.00439	0.82791
0.40370	-1.61284	1.45393	-0.18100	-2.06928	1.43604	-0.00335	3.85762	0.36901	-0.00407	0.82230
0.41321	-1.68140	1.45695	-0.18332	-2.07087	1.44559	-0.00335	3.96092	0.36225	-0.00372	0.81638
0.42292	-1.77310	1.45946	-0.18527	-2.06746	1.45157	-0.00335	4.03751	0.35612	-0.00337	0.81043
0.43288	-1.88029	1.46120	-0.18703	-2.06028	1.45539	-0.00335	4.09765	0.35028	-0.00311	0.80517
0.44307	-1.99124	1.46290	-0.18878	-2.05228	1.45954	-0.00336	4.15789	0.34440	-0.00271	0.79931
0.45349	-2.10876	1.46489	-0.19021	-2.04318	1.46347	-0.00336	4.21533	0.33862	-0.00216	0.79237
0.46417	-2.22077	1.46678	-0.19154	-2.03512	1.46649	-0.00337	4.28626	0.33256	-0.00149	0.78476
0.47508	-2.31717	1.46883	-0.19289	-2.03038	1.47042	-0.00336	4.38743	0.32587	-0.00066	0.77666
0.48626	-2.40172	1.47114	-0.19415	-2.02823	1.47545	-0.00335	4.51694	0.31865	0.00019	0.76869
0.49771	-2.47678	1.47336	-0.19526	-2.02773	1.48124	-0.00334	4.67063	0.31105	0.00094	0.76153
0.50942	-2.53660	1.47528	-0.19643	-2.02997	1.48697	-0.00332	4.85614	0.30299	0.00155	0.75572
0.52140	-2.59125	1.47737	-0.19733	-2.03322	1.49359	-0.00330	5.06162	0.29481	0.00197	0.75123
0.53367	-2.64184	1.47971	-0.19801	-2.03738	1.50065	-0.00328	5.28549	0.28660	0.00223	0.74792
0.54624	-2.68684	1.48189	-0.19862	-2.04236	1.50756	-0.00327	5.52718	0.27838	0.00237	0.74561
0.55910	-2.72745	1.48385	-0.19920	-2.04786	1.51442	-0.00324	5.78454	0.27024	0.00244	0.74400
0.57225	-2.76718	1.48591	-0.19967	-2.05345	1.52102	-0.00322	6.05402	0.26224	0.00247	0.74276
0.58569	-2.80805	1.48813	-0.20007	-2.05879	1.52679	-0.00320	6.33202	0.25444	0.00250	0.74160
0.59948	-2.84926	1.49030	-0.20044	-2.06389	1.53193	-0.00318	6.61889	0.24683	0.00259	0.74023
0.61357	-2.88799	1.49219	-0.20084	-2.06901	1.53670	-0.00315	6.91610	0.23943	0.00274	0.73873
0.62802	-2.92452	1.49404	-0.20123	-2.07440	1.54125	-0.00313	7.22753	0.23215	0.00291	0.73732
0.64280	-2.95991	1.49617	-0.20151	-2.08013	1.54563	-0.00310	7.55279	0.22504	0.00307	0.73617
0.65794	-2.99365	1.49851	-0.20174	-2.08626	1.54995	-0.00307	7.89215	0.21809	0.00321	0.73535
0.67340	-3.02348	1.50062	-0.20203	-2.09278	1.55434	-0.00304	8.24469	0.21132	0.00335	0.73493
0.68927	-3.04891	1.50241	-0.20242	-2.09977	1.55891	-0.00302	8.61186	0.20472	0.00349	0.73501
0.70547	-3.07296	1.50416	-0.20282	-2.10687	1.56348	-0.00299	8.98584	0.19837	0.00358	0.73559
0.72207	-3.10006	1.50626	-0.20315	-2.11357	1.56780	-0.00296	9.36013	0.19233	0.00361	0.73652
0.73910	-3.13122	1.50863	-0.20343	-2.11963	1.57171	-0.00294	9.72961	0.18661	0.00359	0.73753
0.75649	-3.16465	1.51090	-0.20377	-2.12498	1.57518	-0.00291	10.09122	0.18124	0.00355	0.73825
0.77429	-3.19893	1.51278	-0.20425	-2.12969	1.57826	-0.00289	10.44545	0.17617	0.00350	0.73829
0.79246	-3.23417	1.51445	-0.20482	-2.13385	1.58096	-0.00287	10.79125	0.17141	0.00346	0.73738
0.81116	-3.27305	1.51632	-0.20539	-2.13745	1.58322	-0.00284	11.12958	0.16692	0.00338	0.73570
0.83022	-3.31731	1.51861	-0.20589	-2.14022	1.58485	-0.00282	11.45278	0.16276	0.00327	0.73354
0.84976	-3.36523	1.52120	-0.20639	-2.14245	1.58601	-0.00280	11.76610	0.15886	0.00313	0.73116
0.86972	-3.41394	1.52371	-0.20696	-2.14432	1.58680	-0.00278	12.07074	0.15522	0.00300	0.72886
0.89023	-3.46128	1.52588	-0.20769	-2.14609	1.58735	-0.00276	12.37227	0.15176	0.00289	0.72698
0.91116	-3.50653	1.52777	-0.20855	-2.14787	1.58774	-0.00274	12.66990	0.14851	0.00281	0.72596
0.93257	-3.55151	1.52972	-0.20946	-2.14967	1.58795	-0.00272	12.96374	0.14545	0.00273	0.72588
0.95456	-3.59839	1.53205	-0.21035	-2.15141	1.58791	-0.00269	13.25292	0.14259	0.00263	0.72678
0.97704	-3.64735	1.53484	-0.21120	-2.15307	1.58761	-0.00267	13.53600	0.13992	0.00250	0.72859
1.00000	-3.69660	1.53789	-0.21207	-2.15482	1.58713	-0.00265	13.81573	0.13741	0.00236	0.73117
1.02354	-3.74363	1.54086	-0.21304	-2.15686	1.58660	-0.00263	14.09702	0.13504	0.00224	0.73435
1.04767	-3.78659	1.54351	-0.21417	-2.15932	1.58612	-0.00261	14.38200	0.13278	0.00216	0.73795
1.07227	-3.82507	1.54581	-0.21548	-2.16224	1.58573	-0.00258	14.66967	0.13065	0.00212	0.74187
1.09745	-3.86075	1.54799	-0.21690	-2.16554	1.58538	-0.00256	14.95936	0.12864	0.00209	0.74609
1.12334	-3.89621	1.55038	-0.21837	-2.16905	1.58498	-0.00254	15.24893	0.12674	0.00205	0.75067
1.14982	-3.93321	1.55317	-0.21984	-2.17254	1.58443	-0.00252	15.53399	0.12498	0.00198	0.75554
1.17675	-3.97224	1.55634	-0.22128	-2.17589	1.58367	-0.00249	15.81147	0.12335	0.00187	0.76059
1.20453	-4.01328	1.55979	-0.22276	-2.17909	1.58271	-0.00247	16.08558	0.12182	0.00174	0.76570
1.23289	-4.05382	1.56321	-0.22432	-2.18228	1.58166	-0.00245	16.35681	0.12037	0.00161	0.77058
1.26183	-4.09417	1.56634	-0.22603	-2.18515	1.58038	-0.00242	16.62051	0.11901	0.00150	0.77514
1.29149	-4.13313	1.56910	-0.22790	-2.18791	1.57898	-0.00240	16.88096	0.11772	0.00142	0.77944
1.32188	-4.17068	1.57156	-0.22994	-2.19062	1.57751	-0.00238	17.13879	0.11649	0.00137	0.78358
1.35300	-4.20959	1.57389	-0.23207	-2.19289	1.57576	-0.00236	17.38719	0.11536	0.00133	0.78775
1.38485	-4.24921	1.57635	-0.23426	-2.19511	1.57394	-0.00234	17.63162	0.11429	0.00127	0.79212
1.41743	-4.29283	1.57910	-0.23644	-2.19677	1.57180	-0.00232	17.86383	0.11331	0.00119	0.79690
1.45075	-4.33978	1.58225	-0.23859	-2.19810	1.56945	-0.00229	18.08751	0.11240	0.00106	0.80216
1.48500	-4.39241	1.58575	-0.24073	-2.19866	1.56667	-0.00227	18.29675	0.11157	0.00091	0.80793
1.51999	-4.44897	1.58947	-0.24287	-2.19859	1.56357	-0.00226	18.49338	0.11080	0.00073	0.81409
1.55569	-4.50822	1.59323	-0.24503	-2.19799	1.56020	-0.00224	18.67886	0.11008	0.00054	0.82058
1.59236	-4.56939	1.59687	-0.24728	-2.19691	1.55660	-0.00222	18.85571	0.10940	0.00037	0.82734
1.62973	-4.63113	1.60026	-0.24963	-2.19543	1.55283	-0.00220	19.02397	0.10875	0.00021	0.83429
1.66806	-4.69347	1.60339	-0.25208	-2.19360	1.54891	-0.00218	19.18526	0.10814	0.00008	0.84142
1.70736	-4.75665	1.60630	-0.25463	-2.19141	1.54484	-0.00217	19.33932	0.10757	-0.00003	0.84876
1.74764	-4.82152	1.60912	-0.25725	-2.18882	1.54060	-0.00215	19.48468	0.10702	-0.00013	0.85633
1.78859	-4.88864	1.61198	-0.25987	-2.18578	1.53619	-0.00213	19.61860	0.10652	-0.00023	0.86412
1.83083	-4.96011	1.61505	-0.26249	-2.18215	1.53150	-0.00212	19.74140	0.10606	-0.00034	0.87227
1.87371	-5.03578	1.61840	-0.26504	-2.17790	1.52657	-0.00210	19.84932	0.10565	-0.00048	0.88069
1.91791	-5.11741	1.62213	-0.26755	-2.17292	1.52130	-0.00209	19.94306	0.10527	-0.00063	0.88945
1.96309	-5.20459	1.62621	-0.26998	-2.16719	1.51571	-0.00208	20.02101	0.10494	-0.00081	0.89838

2.00924	-5.29824	1.63060	-0.27233	-2.16047	1.50969	-0.00206	20.07896	0.10465	-0.00100	0.90734
2.05634	-5.39454	1.63524	-0.27462	-2.15349	1.50359	-0.00205	20.12958	0.10437	-0.00121	0.91615
2.10482	-5.49470	1.64006	-0.27688	-2.14599	1.49728	-0.00204	20.17026	0.10412	-0.00142	0.92472
2.15424	-5.59886	1.64491	-0.27910	-2.13774	1.49066	-0.00203	20.19475	0.10390	-0.00163	0.93275
2.20507	-5.70747	1.64975	-0.28133	-2.12868	1.48369	-0.00202	20.20358	0.10371	-0.00183	0.94020
2.25683	-5.81761	1.65449	-0.28355	-2.11923	1.47659	-0.00201	20.20237	0.10353	-0.00201	0.94702
2.31000	-5.92845	1.65917	-0.28577	-2.10967	1.46948	-0.00200	20.19743	0.10336	-0.00219	0.95338
2.36463	-6.04249	1.66376	-0.28799	-2.09949	1.46212	-0.00199	20.17918	0.10322	-0.00235	0.95936
2.42014	-6.15634	1.66830	-0.29018	-2.08928	1.45480	-0.00198	20.15666	0.10308	-0.00250	0.96504
2.47709	-6.27206	1.67286	-0.29233	-2.07883	1.44739	-0.00197	20.12671	0.10297	-0.00265	0.97065
2.53550	-6.39048	1.67753	-0.29443	-2.06802	1.43985	-0.00197	20.08730	0.10288	-0.00279	0.97635
2.59471	-6.51085	1.68233	-0.29644	-2.05692	1.43223	-0.00196	20.03774	0.10281	-0.00293	0.98223
2.65604	-6.63669	1.68740	-0.29837	-2.04518	1.42430	-0.00195	19.97409	0.10278	-0.00308	0.98850
2.71887	-6.76542	1.69276	-0.30019	-2.03322	1.41629	-0.00195	19.90301	0.10276	-0.00324	0.99516
2.78242	-6.89627	1.69839	-0.30188	-2.02105	1.40823	-0.00194	19.82249	0.10277	-0.00341	1.00218
2.84819	-7.03156	1.70440	-0.30343	-2.00858	1.40001	-0.00193	19.73336	0.10281	-0.00359	1.00983
2.91545	-7.17170	1.71078	-0.30489	-1.99549	1.39152	-0.00193	19.62988	0.10288	-0.00377	1.01805
2.98329	-7.31132	1.71737	-0.30613	-1.98274	1.38322	-0.00192	19.52515	0.10297	-0.00396	1.02663
3.05344	-7.45737	1.72436	-0.30731	-1.96917	1.37453	-0.00191	19.40454	0.10308	-0.00416	1.03556
3.12598	-7.60696	1.73169	-0.30832	-1.95548	1.36574	-0.00191	19.27710	0.10322	-0.00436	1.04467
3.19898	-7.75667	1.73914	-0.30922	-1.94175	1.35699	-0.00190	19.14467	0.10337	-0.00456	1.05340
3.27439	-7.90807	1.74690	-0.30997	-1.92819	1.34830	-0.00190	19.01125	0.10355	-0.00477	1.06175
3.35121	-8.06139	1.75476	-0.31064	-1.91434	1.33949	-0.00189	18.86958	0.10373	-0.00497	1.06942
3.43053	-8.21531	1.76287	-0.31116	-1.90084	1.33082	-0.00189	18.72964	0.10394	-0.00517	1.07676
3.51124	-8.37097	1.77101	-0.31163	-1.88697	1.32199	-0.00188	18.58070	0.10416	-0.00536	1.08385
3.59324	-8.52240	1.77918	-0.31190	-1.87414	1.31368	-0.00188	18.44315	0.10439	-0.00554	1.09106
3.67782	-8.67997	1.78754	-0.31222	-1.86018	1.30481	-0.00187	18.28669	0.10464	-0.00571	1.09871
3.76506	-8.83120	1.79590	-0.31221	-1.84801	1.29680	-0.00186	18.15352	0.10490	-0.00587	1.10733
3.85356	-8.98983	1.80446	-0.31240	-1.83410	1.28795	-0.00186	17.99167	0.10517	-0.00600	1.11651
3.94477	-9.13861	1.81282	-0.31214	-1.82268	1.28032	-0.00185	17.86364	0.10545	-0.00614	1.12644
4.03714	-9.29451	1.82154	-0.31209	-1.80965	1.27190	-0.00185	17.70884	0.10575	-0.00625	1.13647
4.13223	-9.44591	1.83007	-0.31175	-1.79778	1.26406	-0.00184	17.56895	0.10606	-0.00635	1.14664
4.23012	-9.59488	1.83886	-0.31120	-1.78694	1.25672	-0.00183	17.44073	0.10639	-0.00646	1.15665
4.32900	-9.75329	1.84787	-0.31094	-1.77374	1.24822	-0.00183	17.27619	0.10672	-0.00654	1.16578
4.43066	-9.89471	1.85650	-0.30993	-1.76467	1.24179	-0.00182	17.16876	0.10707	-0.00665	1.17455
4.53515	-10.05010	1.86593	-0.30928	-1.75297	1.23400	-0.00181	17.02042	0.10745	-0.00674	1.18256
4.64253	-10.20585	1.87525	-0.30850	-1.74121	1.22620	-0.00180	16.87032	0.10782	-0.00682	1.18997
4.75059	-10.34234	1.88425	-0.30699	-1.73386	1.22065	-0.00179	16.77972	0.10822	-0.00693	1.19696
4.86145	-10.50156	1.89430	-0.30616	-1.72182	1.21268	-0.00179	16.61975	0.10863	-0.00700	1.20317
4.97760	-10.65502	1.90404	-0.30485	-1.71148	1.20557	-0.00178	16.48367	0.10904	-0.00709	1.20915
5.09424	-10.78961	1.91358	-0.30279	-1.70555	1.20075	-0.00177	16.40668	0.10950	-0.00720	1.21487
5.21376	-10.95231	1.92441	-0.30163	-1.69375	1.19286	-0.00176	16.24393	0.10996	-0.00727	1.21990
5.33618	-11.10604	1.93457	-0.30007	-1.68364	1.18589	-0.00175	16.10554	0.11039	-0.00734	1.22475
5.46150	-11.23481	1.94434	-0.29734	-1.67975	1.18214	-0.00174	16.05205	0.11089	-0.00746	1.22980
5.58971	-11.39310	1.95571	-0.29554	-1.66993	1.17526	-0.00173	15.91149	0.11140	-0.00753	1.23444
5.72082	-11.56033	1.96699	-0.29410	-1.65762	1.16710	-0.00172	15.73665	0.11187	-0.00757	1.23896
5.85823	-11.68752	1.97696	-0.29080	-1.65498	1.16402	-0.00171	15.69690	0.11240	-0.00768	1.24429
5.99520	-11.82754	1.98816	-0.28791	-1.64989	1.15963	-0.00170	15.61849	0.11296	-0.00777	1.24947
6.13497	-12.00323	2.00072	-0.28636	-1.63685	1.15104	-0.00169	15.42699	0.11349	-0.00778	1.25432
6.28141	-12.15238	2.01160	-0.28374	-1.62938	1.14543	-0.00168	15.31601	0.11401	-0.00783	1.25971
6.42674	-12.26409	2.02153	-0.27962	-1.63026	1.14430	-0.00167	15.32006	0.11458	-0.00794	1.26553
6.57895	-12.41387	2.03391	-0.27647	-1.62437	1.13947	-0.00166	15.22454	0.11519	-0.00799	1.27124
6.73401	-12.59922	2.04750	-0.27485	-1.61022	1.13023	-0.00165	15.01339	0.11576	-0.00797	1.27659
6.89180	-12.73591	2.05795	-0.27164	-1.60529	1.12604	-0.00164	14.93483	0.11629	-0.00800	1.28247
7.05716	-12.84103	2.06805	-0.26656	-1.60900	1.12644	-0.00163	14.97401	0.11692	-0.00810	1.28897
7.22022	-12.97945	2.08025	-0.26278	-1.60555	1.12300	-0.00162	14.90983	0.11754	-0.00813	1.29478
7.39098	-13.16794	2.09478	-0.26072	-1.59193	1.11401	-0.00161	14.70016	0.11817	-0.00808	1.30004
7.56430	-13.32889	2.10652	-0.25823	-1.58209	1.10716	-0.00160	14.54834	0.11873	-0.00806	1.30515
7.73994	-13.41001	2.11490	-0.25260	-1.58944	1.10973	-0.00159	14.64080	0.11929	-0.00814	1.31066
7.92393	-13.52507	2.12621	-0.24745	-1.59178	1.10946	-0.00157	14.65665	0.11993	-0.00819	1.31558
8.11030	-13.67851	2.13970	-0.24364	-1.58633	1.10494	-0.00156	14.55898	0.12060	-0.00818	1.31966
8.29876	-13.88304	2.15502	-0.24207	-1.56916	1.09403	-0.00155	14.29387	0.12128	-0.00809	1.32281
8.49618	-14.01908	2.16530	-0.23859	-1.56445	1.09005	-0.00154	14.21352	0.12183	-0.00808	1.32636
8.69565	-14.07291	2.17253	-0.23177	-1.57772	1.09597	-0.00153	14.39139	0.12234	-0.00817	1.33041
8.90472	-14.18266	2.18387	-0.22612	-1.58166	1.09663	-0.00152	14.42917	0.12297	-0.00819	1.33395
9.11577	-14.31858	2.19676	-0.22138	-1.58027	1.09439	-0.00150	14.38844	0.12363	-0.00817	1.33714
9.32836	-14.52730	2.21325	-0.21925	-1.56379	1.08384	-0.00149	14.12449	0.12442	-0.00806	1.33973
9.54198	-14.70880	2.22591	-0.21750	-1.54924	1.07448	-0.00149	13.89671	0.12506	-0.00797	1.34259
9.76563	-14.74274	2.23074	-0.21075	-1.56446	1.08167	-0.00147	14.10862	0.12541	-0.00805	1.34712
10.00000	-14.79031	2.23863	-0.20323	-1.58019	1.08896	-0.00146	14.32523	0.12584	-0.00809	1.35211

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Atkinson and Boore (1995) model
Median stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 15 - 30 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-4.57155	2.31267	0.06933	-2.25230	1.65997	-0.00209	3.21625	0.39230	-0.04024	0.49973
PGV	1.67003	1.47554	-0.08290	-2.00953	1.32906	-0.00287	1.98160	0.48640	-0.02853	0.48755
PGA	-0.14129	1.51994	-0.01364	-2.29508	1.00397	-0.00260	1.75892	0.60136	-0.02028	0.72326
0.01000	0.21082	1.53464	-0.01152	-2.36456	0.98557	-0.00251	1.97862	0.59188	-0.00307	0.68324
0.01024	0.22269	1.53634	-0.01100	-2.36751	0.98164	-0.00250	1.98144	0.59241	-0.00299	0.68356
0.01048	0.23890	1.53805	-0.01050	-2.37127	0.97783	-0.00248	1.98692	0.59278	-0.00293	0.68394
0.01072	0.25946	1.53979	-0.01000	-2.37583	0.97409	-0.00247	1.99505	0.59298	-0.00289	0.68440
0.01097	0.28425	1.54158	-0.00950	-2.38119	0.97036	-0.00245	2.00569	0.59305	-0.00286	0.68493
0.01123	0.31337	1.54343	-0.00899	-2.38736	0.96657	-0.00244	2.01884	0.59299	-0.00286	0.68555
0.01150	0.34748	1.54536	-0.00848	-2.39447	0.96273	-0.00242	2.03494	0.59277	-0.00288	0.68628
0.01177	0.38722	1.54740	-0.00795	-2.40265	0.95881	-0.00240	2.05443	0.59239	-0.00292	0.68714
0.01205	0.43311	1.54955	-0.00742	-2.41200	0.95478	-0.00238	2.07766	0.59184	-0.00299	0.68815
0.01233	0.48581	1.55184	-0.00687	-2.42264	0.95059	-0.00236	2.10507	0.59111	-0.00308	0.68930
0.01262	0.54601	1.55429	-0.00631	-2.43470	0.94618	-0.00233	2.13712	0.59018	-0.00320	0.69063
0.01292	0.61353	1.55692	-0.00573	-2.44814	0.94140	-0.00230	2.17360	0.58909	-0.00335	0.69216
0.01322	0.68823	1.55974	-0.00512	-2.46293	0.93618	-0.00227	2.21432	0.58788	-0.00352	0.69389
0.01353	0.76962	1.56275	-0.00447	-2.47895	0.93043	-0.00224	2.25890	0.58657	-0.00372	0.69585
0.01385	0.85739	1.56594	-0.00380	-2.49613	0.92413	-0.00220	2.30708	0.58520	-0.00395	0.69806
0.01417	0.95102	1.56933	-0.00309	-2.51436	0.91721	-0.00216	2.35832	0.58380	-0.00421	0.70052
0.01451	1.05109	1.57296	-0.00234	-2.53381	0.90963	-0.00212	2.41286	0.58239	-0.00450	0.70330
0.01485	1.15771	1.57685	-0.00151	-2.55449	0.90136	-0.00208	2.47060	0.58098	-0.00485	0.70652
0.01520	1.26824	1.58096	-0.00062	-2.57584	0.89221	-0.00203	2.52941	0.57968	-0.00524	0.71019
0.01556	1.38309	1.58527	0.00032	-2.59786	0.88198	-0.00198	2.58973	0.57849	-0.00566	0.71422
0.01592	1.50729	1.58979	0.00129	-2.62142	0.87058	-0.00193	2.65586	0.57721	-0.00611	0.71859
0.01630	1.63995	1.59457	0.00229	-2.64635	0.85802	-0.00187	2.72722	0.57591	-0.00660	0.72345
0.01668	1.77108	1.59957	0.00331	-2.67079	0.84418	-0.00182	2.79558	0.57494	-0.00713	0.72872
0.01707	1.89261	1.60466	0.00437	-2.69321	0.82899	-0.00177	2.85436	0.57454	-0.00764	0.73404
0.01748	2.00787	1.60975	0.00547	-2.71423	0.81266	-0.00171	2.90668	0.57453	-0.00809	0.73914
0.01789	2.11894	1.61485	0.00662	-2.73418	0.79530	-0.00166	2.95460	0.57479	-0.00849	0.74406
0.01831	2.21450	1.61994	0.00784	-2.75095	0.77633	-0.00161	2.98840	0.57575	-0.00886	0.74884
0.01874	2.28893	1.62504	0.00914	-2.76360	0.75570	-0.00157	3.00309	0.57759	-0.00918	0.75346
0.01918	2.34876	1.63022	0.01052	-2.77354	0.73500	-0.00153	3.00509	0.57997	-0.00949	0.75799
0.01963	2.39191	1.63535	0.01196	-2.78037	0.71555	-0.00150	2.99432	0.58279	-0.00975	0.76235
0.02009	2.40962	1.64019	0.01337	-2.78232	0.69676	-0.00148	2.96436	0.58633	-0.00993	0.76620
0.02057	2.40233	1.64463	0.01470	-2.77933	0.67742	-0.00146	2.91628	0.59060	-0.00995	0.76901
0.02105	2.37838	1.64866	0.01597	-2.77292	0.65724	-0.00145	2.85773	0.59530	-0.00976	0.77047
0.02154	2.34493	1.65240	0.01719	-2.76455	0.63681	-0.00144	2.79463	0.60022	-0.00944	0.77094
0.02205	2.30827	1.65607	0.01840	-2.75552	0.61675	-0.00144	2.73203	0.60514	-0.00912	0.77139
0.02257	2.26683	1.65981	0.01966	-2.74574	0.59795	-0.00143	2.66915	0.61009	-0.00883	0.77200
0.02310	2.20804	1.66349	0.02105	-2.73299	0.58115	-0.00144	2.59724	0.61543	-0.00851	0.77237
0.02364	2.12291	1.66692	0.02258	-2.71544	0.56569	-0.00146	2.51049	0.62148	-0.00815	0.77240
0.02420	2.01220	1.66990	0.02425	-2.69288	0.55006	-0.00149	2.41042	0.62832	-0.00771	0.77184
0.02477	1.88134	1.67239	0.02603	-2.66618	0.53350	-0.00152	2.30128	0.63587	-0.00720	0.77067
0.02535	1.74090	1.67465	0.02781	-2.63769	0.51714	-0.00155	2.19002	0.64376	-0.00661	0.76884
0.02595	1.61251	1.67694	0.02939	-2.61189	0.50355	-0.00158	2.09066	0.65109	-0.00595	0.76648
0.02656	1.51409	1.67931	0.03065	-2.59207	0.49380	-0.00161	2.01432	0.65702	-0.00530	0.76400
0.02719	1.43812	1.68171	0.03165	-2.57657	0.48617	-0.00164	1.95524	0.66188	-0.00463	0.76137
0.02783	1.36124	1.68416	0.03263	-2.56094	0.47839	-0.00167	1.89808	0.66673	-0.00390	0.75837
0.02848	1.26304	1.68656	0.03384	-2.54142	0.46975	-0.00170	1.83030	0.67245	-0.00314	0.75529
0.02915	1.14090	1.68847	0.03530	-2.51732	0.46104	-0.00174	1.75134	0.67906	-0.00251	0.75306
0.02984	1.01126	1.68964	0.03676	-2.49130	0.45333	-0.00179	1.67207	0.68580	-0.00209	0.75234
0.03054	0.89643	1.69027	0.03794	-2.46729	0.44692	-0.00183	1.60526	0.69172	-0.00185	0.75294
0.03126	0.80349	1.69067	0.03875	-2.44672	0.44140	-0.00187	1.55334	0.69660	-0.00159	0.75352
0.03199	0.72213	1.69080	0.03929	-2.42806	0.43640	-0.00191	1.50868	0.70092	-0.00102	0.75205
0.03275	0.64580	1.69042	0.03964	-2.41027	0.43229	-0.00195	1.46706	0.70491	-0.00004	0.74776
0.03352	0.56744	1.68952	0.03995	-2.39209	0.42917	-0.00198	1.42509	0.70884	0.00114	0.74219
0.03430	0.47731	1.68823	0.04034	-2.37175	0.42650	-0.00202	1.37788	0.71325	0.00218	0.73757
0.03511	0.36725	1.68648	0.04085	-2.34756	0.42361	-0.00207	1.32159	0.71860	0.00292	0.73501
0.03594	0.24262	1.68400	0.04145	-2.32021	0.42086	-0.00212	1.25969	0.72463	0.00337	0.73439
0.03678	0.11957	1.68118	0.04206	-2.29307	0.42046	-0.00217	1.20092	0.73045	0.00368	0.73475
0.03765	0.01264	1.67881	0.04256	-2.26974	0.42462	-0.00223	1.15211	0.73523	0.00407	0.73458
0.03854	-0.08056	1.67753	0.04297	-2.25039	0.43226	-0.00229	1.11126	0.73918	0.00479	0.73226
0.03944	-0.17604	1.67700	0.04344	-2.23162	0.43973	-0.00235	1.07004	0.74339	0.00581	0.72779
0.04037	-0.28011	1.67597	0.04399	-2.21075	0.44443	-0.00240	1.02554	0.74826	0.00679	0.72333
0.04132	-0.37787	1.67326	0.04433	-2.18895	0.44639	-0.00245	0.98505	0.75285	0.00739	0.72117
0.04229	-0.45275	1.66881	0.04413	-2.16894	0.44686	-0.00249	0.95570	0.75613	0.00762	0.72130
0.04329	-0.50652	1.66354	0.04337	-2.15136	0.44692	-0.00253	0.93624	0.75816	0.00781	0.72155
0.04431	-0.55337	1.65824	0.04229	-2.13472	0.44727	-0.00257	0.92017	0.75979	0.00822	0.72035
0.04535	-0.60842	1.65328	0.04124	-2.11708	0.44818	-0.00261	0.90056	0.76194	0.00881	0.71780

0.04642	-0.68255	1.64878	0.04062	-2.09699	0.44973	-0.00265	0.87270	0.76530	0.00950	0.71436
0.04751	-0.77568	1.64454	0.04057	-2.07446	0.45285	-0.00270	0.83719	0.76980	0.01027	0.71023
0.04863	-0.87660	1.64041	0.04080	-2.05137	0.45970	-0.00276	0.79946	0.77461	0.01109	0.70563
0.04977	-0.97307	1.63610	0.04083	-2.02963	0.47170	-0.00283	0.76443	0.77886	0.01190	0.70091
0.05094	-1.05666	1.63105	0.04036	-2.01007	0.48812	-0.00291	0.73477	0.78203	0.01259	0.69691
0.05214	-1.12513	1.62477	0.03931	-1.99234	0.50660	-0.00298	0.71088	0.78406	0.01299	0.69469
0.05337	-1.17992	1.61726	0.03776	-1.97578	0.52422	-0.00305	0.69190	0.78518	0.01310	0.69413
0.05462	-1.22044	1.60906	0.03581	-1.96077	0.53831	-0.00310	0.67785	0.78554	0.01318	0.69360
0.05591	-1.24367	1.60071	0.03359	-1.94825	0.54773	-0.00314	0.66980	0.78505	0.01345	0.69179
0.05722	-1.24719	1.59272	0.03119	-1.93905	0.55326	-0.00316	0.66896	0.78349	0.01395	0.68864
0.05857	-1.23228	1.58557	0.02868	-1.93347	0.55688	-0.00317	0.67554	0.78082	0.01454	0.68521
0.05995	-1.21006	1.57948	0.02623	-1.92991	0.56018	-0.00318	0.68591	0.77765	0.01505	0.68265
0.06136	-1.20172	1.57431	0.02422	-1.92480	0.56413	-0.00319	0.69243	0.77530	0.01542	0.68114
0.06280	-1.22829	1.56970	0.02300	-1.91416	0.56979	-0.00322	0.68734	0.77504	0.01572	0.68015
0.06428	-1.29498	1.56525	0.02254	-1.89680	0.57820	-0.00328	0.66846	0.77722	0.01609	0.67867
0.06579	-1.38212	1.56098	0.02227	-1.87633	0.59006	-0.00334	0.64275	0.78066	0.01669	0.67564
0.06734	-1.46314	1.55701	0.02155	-1.85761	0.60519	-0.00342	0.61954	0.78362	0.01743	0.67144
0.06893	-1.52102	1.55280	0.01999	-1.84320	0.62184	-0.00348	0.60386	0.78496	0.01805	0.66763
0.07055	-1.55412	1.54739	0.01752	-1.83263	0.63740	-0.00353	0.59485	0.78470	0.01839	0.66512
0.07221	-1.56884	1.54028	0.01435	-1.82425	0.65054	-0.00357	0.58979	0.78336	0.01841	0.66430
0.07391	-1.56884	1.53195	0.01076	-1.81767	0.66186	-0.00358	0.58833	0.78109	0.01812	0.66534
0.07565	-1.55403	1.52367	0.00702	-1.81387	0.67255	-0.00359	0.59209	0.77771	0.01763	0.66757
0.07743	-1.52988	1.51639	0.00350	-1.81260	0.68354	-0.00359	0.60068	0.77347	0.01712	0.66988
0.07925	-1.50705	1.51006	0.00053	-1.81176	0.69522	-0.00359	0.61111	0.76902	0.01665	0.67194
0.08111	-1.49473	1.50389	-0.00175	-1.80875	0.70774	-0.00361	0.62011	0.76497	0.01613	0.67436
0.08302	-1.49627	1.49761	-0.00342	-1.80268	0.72161	-0.00364	0.62619	0.76152	0.01565	0.67654
0.08498	-1.51493	1.49133	-0.00469	-1.79323	0.73625	-0.00369	0.62723	0.75910	0.01552	0.67659
0.08697	-1.55398	1.48479	-0.00593	-1.77977	0.74939	-0.00374	0.62052	0.75822	0.01587	0.67339
0.08902	-1.61314	1.47788	-0.00745	-1.76237	0.75913	-0.00379	0.60528	0.75910	0.01665	0.66742
0.09112	-1.68507	1.47081	-0.00942	-1.74256	0.76545	-0.00384	0.58439	0.76129	0.01758	0.66059
0.09326	-1.75950	1.46386	-0.01197	-1.72243	0.76927	-0.00387	0.56196	0.76405	0.01840	0.65490
0.09545	-1.82794	1.45747	-0.01509	-1.70403	0.77108	-0.00389	0.54112	0.76676	0.01904	0.65086
0.09770	-1.88590	1.45176	-0.01864	-1.68850	0.77047	-0.00390	0.52327	0.76907	0.01955	0.64795
0.10000	-1.93277	1.44669	-0.02224	-1.67603	0.76755	-0.00388	0.50873	0.77083	0.01996	0.64572
0.10235	-1.96967	1.44241	-0.02555	-1.66649	0.76425	-0.00385	0.49799	0.77181	0.02025	0.64425
0.10476	-1.99538	1.43904	-0.02847	-1.66010	0.76391	-0.00383	0.49238	0.77150	0.02028	0.64441
0.10723	-2.00900	1.43603	-0.03120	-1.65643	0.76905	-0.00382	0.49246	0.76954	0.01991	0.64735
0.10975	-2.01011	1.43255	-0.03396	-1.65471	0.78045	-0.00382	0.49818	0.76579	0.01909	0.65343
0.11233	-1.99974	1.42793	-0.03693	-1.65415	0.79717	-0.00384	0.50900	0.76032	0.01795	0.66168
0.11498	-1.98404	1.42196	-0.04004	-1.65356	0.81680	-0.00386	0.52238	0.75387	0.01672	0.67036
0.11768	-1.96868	1.41496	-0.04324	-1.65223	0.83654	-0.00388	0.53589	0.74716	0.01555	0.67831
0.12045	-1.95531	1.40755	-0.04653	-1.65041	0.85461	-0.00390	0.54880	0.74057	0.01446	0.68537
0.12328	-1.94243	1.40031	-0.04999	-1.64878	0.87030	-0.00390	0.56177	0.73410	0.01340	0.69205
0.12619	-1.92988	1.39359	-0.05366	-1.64768	0.88313	-0.00390	0.57493	0.72780	0.01233	0.69870
0.12916	-1.92329	1.38758	-0.05742	-1.64632	0.89208	-0.00389	0.58581	0.72227	0.01131	0.70496
0.13219	-1.92703	1.38257	-0.06114	-1.64429	0.89657	-0.00386	0.59248	0.71789	0.01041	0.71022
0.13531	-1.94226	1.37895	-0.06468	-1.64180	0.89741	-0.00382	0.59477	0.71470	0.00969	0.71411
0.13849	-1.97071	1.37685	-0.06789	-1.63861	0.89628	-0.00378	0.59230	0.71273	0.00924	0.71579
0.14175	-2.01522	1.37583	-0.07068	-1.63369	0.89479	-0.00375	0.58381	0.71215	0.00919	0.71434
0.14508	-2.07685	1.37494	-0.07312	-1.62584	0.89381	-0.00373	0.56852	0.71299	0.00951	0.70981
0.14850	-2.14881	1.37344	-0.07550	-1.61555	0.89441	-0.00373	0.54919	0.71459	0.01000	0.70367
0.15199	-2.22202	1.37130	-0.07796	-1.60448	0.89788	-0.00373	0.52969	0.71611	0.01036	0.69821
0.15557	-2.28737	1.36884	-0.08060	-1.59469	0.90492	-0.00374	0.51398	0.71666	0.01032	0.69565
0.15923	-2.33993	1.36647	-0.08343	-1.58759	0.91494	-0.00376	0.50434	0.71570	0.00984	0.69633
0.16298	-2.37690	1.36467	-0.08644	-1.58423	0.92676	-0.00377	0.50213	0.71292	0.00911	0.69896
0.16681	-2.39769	1.36379	-0.08963	-1.58503	0.93937	-0.00376	0.50797	0.70826	0.00834	0.70208
0.17074	-2.40341	1.36389	-0.09302	-1.58960	0.95229	-0.00375	0.52195	0.70188	0.00757	0.70556
0.17475	-2.39603	1.36464	-0.09661	-1.59704	0.96528	-0.00374	0.54369	0.69401	0.00667	0.71017
0.17887	-2.37750	1.36573	-0.10037	-1.60661	0.97840	-0.00371	0.57273	0.68492	0.00568	0.71589
0.18307	-2.35038	1.36704	-0.10423	-1.61782	0.99189	-0.00369	0.60839	0.67493	0.00477	0.72151
0.18738	-2.31837	1.36848	-0.10807	-1.63000	1.00580	-0.00367	0.64913	0.66448	0.00402	0.72623
0.19179	-2.28676	1.36984	-0.11176	-1.64197	1.01988	-0.00364	0.69235	0.65413	0.00337	0.73042
0.19631	-2.26188	1.37092	-0.11523	-1.65222	1.03394	-0.00362	0.73452	0.64447	0.00268	0.73488
0.20092	-2.24885	1.37166	-0.11841	-1.65961	1.04787	-0.00360	0.77225	0.63596	0.00189	0.73991
0.20565	-2.25092	1.37211	-0.12132	-1.66349	1.06154	-0.00360	0.80304	0.62888	0.00107	0.74514
0.21049	-2.26736	1.37231	-0.12402	-1.66392	1.07474	-0.00361	0.82669	0.62312	0.00031	0.75005
0.21544	-2.29664	1.37214	-0.12662	-1.66105	1.08666	-0.00362	0.84328	0.61858	-0.00039	0.75461
0.22051	-2.33467	1.37158	-0.12918	-1.65568	1.09632	-0.00363	0.85463	0.61494	-0.00107	0.75914
0.22570	-2.37588	1.37088	-0.13170	-1.64918	1.10361	-0.00364	0.86406	0.61177	-0.00177	0.76404
0.23101	-2.41617	1.37047	-0.13413	-1.64281	1.10920	-0.00364	0.87426	0.60875	-0.00252	0.76964
0.23645	-2.45536	1.37073	-0.13635	-1.63700	1.11365	-0.00364	0.88571	0.60590	-0.00326	0.77568
0.24201	-2.49453	1.37176	-0.13832	-1.63163	1.11736	-0.00364	0.89783	0.60331	-0.00395	0.78192
0.24771	-2.53649	1.37326	-0.14002	-1.62582	1.12035	-0.00364	0.90875	0.60117	-0.00466	0.78885
0.25354	-2.58159	1.37511	-0.14145	-1.61944	1.12259	-0.00364	0.91798	0.59950	-0.00541	0.79663
0.25950	-2.62880	1.37744	-0.14264	-1.61289	1.12377	-0.00363	0.92582	0.59827	-0.00620	0.80499
0.26561	-2.67924	1.38010	-0.14359	-1.60585	1.12342	-0.00363	0.93109	0.59757	-0.00702	0.81379
0.27186	-2.73170	1.38263	-0.14442	-1.59818	1.12133	-0.00362	0.93405	0.59725	-0.00792	0.82325
0.27826	-2.78348	1.38474	-0.14524	-1.59020	1.11739	-0.00360	0.93606	0.59703	-0.00890	0.83323
0.28480	-2.83059	1.38679	-0.14608	-1.58314	1.11244	-0.00357	0.94025	0.59654	-0.00983	0.84290
0.29150	-2.87200	1.38909	-0.14687	-1.57756	1.10700	-0.00354	0.94799	0.59563	-0.01064	0.85152
0.29836	-2.90905	1.39143	-0.14757	-1.57310	1.10077	-0.00351	0.95853	0.59435	-0.01132	0.85888

0.30539	-2.94315	1.39393	-0.14820	-1.56970	1.09396	-0.00347	0.97123	0.59275	-0.01178	0.86430
0.31257	-2.97565	1.39677	-0.14875	-1.56742	1.08642	-0.00342	0.98502	0.59099	-0.01191	0.86715
0.31993	-3.00926	1.39980	-0.14923	-1.56564	1.07775	-0.00337	0.99831	0.58920	-0.01172	0.86736
0.32745	-3.04857	1.40283	-0.14957	-1.56326	1.06808	-0.00331	1.00802	0.58769	-0.01122	0.86498
0.33517	-3.09684	1.40592	-0.14977	-1.55971	1.05771	-0.00326	1.01202	0.58667	-0.01047	0.86054
0.34304	-3.15574	1.40857	-0.14997	-1.55414	1.04602	-0.00321	1.00860	0.58622	-0.00949	0.85421
0.35112	-3.22128	1.41071	-0.15038	-1.54718	1.03346	-0.00315	1.00077	0.58600	-0.00842	0.84716
0.35938	-3.28796	1.41271	-0.15102	-1.54021	1.02048	-0.00310	0.99356	0.58546	-0.00744	0.84058
0.36784	-3.35081	1.41487	-0.15190	-1.53453	1.00774	-0.00305	0.99127	0.58413	-0.00660	0.83492
0.37649	-3.40606	1.41702	-0.15307	-1.53081	0.99453	-0.00299	0.99610	0.58173	-0.00595	0.83055
0.38536	-3.45292	1.41928	-0.15453	-1.52934	0.98119	-0.00293	1.00934	0.57808	-0.00549	0.82732
0.39442	-3.49451	1.42165	-0.15625	-1.52944	0.96902	-0.00287	1.02909	0.57347	-0.00515	0.82499
0.40370	-3.53653	1.42372	-0.15823	-1.52953	0.95872	-0.00281	1.05168	0.56824	-0.00503	0.82410
0.41321	-3.57813	1.42607	-0.16036	-1.53047	0.95104	-0.00277	1.07899	0.56226	-0.00507	0.82452
0.42292	-3.61645	1.42871	-0.16268	-1.53307	0.94449	-0.00272	1.11230	0.55549	-0.00525	0.82616
0.43288	-3.65738	1.43182	-0.16501	-1.53610	0.94096	-0.00269	1.14891	0.54830	-0.00555	0.82885
0.44307	-3.70082	1.43533	-0.16738	-1.53948	0.94125	-0.00267	1.18950	0.54058	-0.00599	0.83277
0.45349	-3.74450	1.43961	-0.16973	-1.54421	0.94568	-0.00266	1.23558	0.53234	-0.00647	0.83739
0.46417	-3.79290	1.44442	-0.17198	-1.54918	0.95309	-0.00267	1.28199	0.52411	-0.00694	0.84230
0.47508	-3.84169	1.44933	-0.17422	-1.55490	0.96259	-0.00268	1.33150	0.51553	-0.00740	0.84728
0.48626	-3.88566	1.45504	-0.17640	-1.56317	0.97492	-0.00268	1.38962	0.50632	-0.00780	0.85207
0.49771	-3.92421	1.46155	-0.17852	-1.57406	0.99035	-0.00270	1.45642	0.49669	-0.00808	0.85638
0.50942	-3.96130	1.46802	-0.18061	-1.58578	1.00694	-0.00271	1.52812	0.48683	-0.00825	0.86007
0.52140	-3.99851	1.47512	-0.18262	-1.59842	1.02750	-0.00274	1.60632	0.47681	-0.00834	0.86312
0.53367	-4.04032	1.48227	-0.18446	-1.61061	1.04822	-0.00277	1.68681	0.46681	-0.00841	0.86590
0.54624	-4.08697	1.48930	-0.18608	-1.62210	1.06754	-0.00279	1.76862	0.45696	-0.00849	0.86844
0.55910	-4.13613	1.49592	-0.18758	-1.63301	1.08476	-0.00281	1.85428	0.44706	-0.00854	0.87053
0.57225	-4.19169	1.50153	-0.18898	-1.64178	1.09960	-0.00283	1.94230	0.43695	-0.00846	0.87144
0.58569	-4.25096	1.50658	-0.19035	-1.64933	1.11266	-0.00284	2.03643	0.42653	-0.00817	0.87060
0.59948	-4.31640	1.51099	-0.19170	-1.65508	1.12404	-0.00285	2.13337	0.41603	-0.00759	0.86751
0.61357	-4.38469	1.51454	-0.19321	-1.65942	1.13265	-0.00285	2.23352	0.40550	-0.00678	0.86265
0.62802	-4.45429	1.51760	-0.19477	-1.66317	1.13903	-0.00284	2.34055	0.39477	-0.00576	0.85622
0.64280	-4.52311	1.52038	-0.19632	-1.66694	1.14384	-0.00283	2.45840	0.38367	-0.00459	0.84859
0.65794	-4.59335	1.52266	-0.19794	-1.66990	1.14778	-0.00281	2.58462	0.37236	-0.00330	0.84001
0.67340	-4.66346	1.52427	-0.19970	-1.67202	1.15172	-0.00279	2.71850	0.36097	-0.00188	0.83054
0.68927	-4.73303	1.52511	-0.20152	-1.67331	1.15607	-0.00277	2.86273	0.34941	-0.00038	0.82043
0.70547	-4.79776	1.52547	-0.20335	-1.67486	1.16129	-0.00276	3.02425	0.33754	0.00111	0.81025
0.72207	-4.85526	1.52576	-0.20506	-1.67770	1.16754	-0.00275	3.21133	0.32519	0.00249	0.80052
0.73910	-4.90399	1.52606	-0.20666	-1.68216	1.17514	-0.00274	3.42730	0.31249	0.00368	0.79161
0.75649	-4.94387	1.52619	-0.20816	-1.68799	1.18404	-0.00273	3.66968	0.29974	0.00468	0.78344
0.77429	-4.97573	1.52596	-0.20961	-1.69486	1.19391	-0.00272	3.93699	0.28710	0.00553	0.77564
0.79246	-5.00137	1.52542	-0.21099	-1.70238	1.20430	-0.00271	4.22727	0.27469	0.00621	0.76799
0.81116	-5.02436	1.52490	-0.21221	-1.71029	1.21496	-0.00270	4.54102	0.26251	0.00673	0.76051
0.83022	-5.04702	1.52468	-0.21322	-1.71824	1.22550	-0.00269	4.87123	0.25079	0.00707	0.75342
0.84976	-5.07171	1.52471	-0.21404	-1.72580	1.23559	-0.00268	5.21258	0.23964	0.00729	0.74678
0.86972	-5.09934	1.52472	-0.21478	-1.73244	1.24477	-0.00267	5.55545	0.22923	0.00744	0.74071
0.89023	-5.12943	1.52448	-0.21553	-1.73813	1.25305	-0.00266	5.89863	0.21950	0.00754	0.73549
0.91116	-5.16140	1.52405	-0.21627	-1.74295	1.26045	-0.00266	6.23856	0.21047	0.00760	0.73154
0.93257	-5.19579	1.52368	-0.21695	-1.74714	1.26716	-0.00265	6.57707	0.20203	0.00759	0.72896
0.95456	-5.23378	1.52369	-0.21752	-1.75079	1.27323	-0.00264	6.91465	0.19412	0.00750	0.72778
0.97704	-5.27545	1.52414	-0.21797	-1.75394	1.27863	-0.00263	7.24890	0.18674	0.00733	0.72790
1.00000	-5.32050	1.52492	-0.21837	-1.75650	1.28330	-0.00262	7.57630	0.17989	0.00713	0.72908
1.02354	-5.36793	1.52573	-0.21881	-1.75843	1.28722	-0.00261	7.89529	0.17355	0.00693	0.73107
1.04767	-5.41668	1.52637	-0.21935	-1.75974	1.29041	-0.00260	8.20373	0.16773	0.00675	0.73365
1.07227	-5.46558	1.52683	-0.21999	-1.76062	1.29298	-0.00259	8.50112	0.16242	0.00662	0.73666
1.09745	-5.51465	1.52727	-0.22071	-1.76130	1.29513	-0.00258	8.79119	0.15752	0.00650	0.74003
1.12334	-5.56437	1.52798	-0.22144	-1.76201	1.29700	-0.00257	9.07807	0.15296	0.00639	0.74377
1.14982	-5.61540	1.52912	-0.22213	-1.76276	1.29862	-0.00256	9.36035	0.14873	0.00626	0.74781
1.17675	-5.66787	1.53073	-0.22279	-1.76349	1.29996	-0.00255	9.63514	0.14485	0.00612	0.75202
1.20453	-5.72237	1.53270	-0.22347	-1.76411	1.30097	-0.00254	9.90394	0.14125	0.00596	0.75630
1.23289	-5.77828	1.53476	-0.22422	-1.76437	1.30151	-0.00253	10.15919	0.13800	0.00582	0.76039
1.26183	-5.83389	1.53671	-0.22512	-1.76444	1.30169	-0.00252	10.40135	0.13509	0.00571	0.76421
1.29149	-5.88964	1.53844	-0.22620	-1.76414	1.30142	-0.00250	10.62823	0.13251	0.00563	0.76784
1.32188	-5.94532	1.53999	-0.22745	-1.76358	1.30078	-0.00249	10.84040	0.13025	0.00556	0.77140
1.35300	-6.00117	1.54153	-0.22884	-1.76286	1.29984	-0.00248	11.03956	0.12827	0.00550	0.77506
1.38485	-6.05751	1.54324	-0.23030	-1.76212	1.29872	-0.00247	11.22829	0.12653	0.00541	0.77903
1.41743	-6.11466	1.54528	-0.23180	-1.76147	1.29751	-0.00245	11.40912	0.12501	0.00528	0.78350
1.45075	-6.17257	1.54775	-0.23330	-1.76100	1.29627	-0.00244	11.58435	0.12365	0.00510	0.78856
1.48500	-6.23134	1.55063	-0.23483	-1.76073	1.29502	-0.00243	11.75627	0.12244	0.00488	0.79421
1.51999	-6.29081	1.55379	-0.23638	-1.76051	1.29369	-0.00241	11.92173	0.12137	0.00462	0.80036
1.55569	-6.34923	1.55707	-0.23801	-1.76054	1.29242	-0.00240	12.08404	0.12044	0.00434	0.80691
1.59236	-6.40700	1.56034	-0.23974	-1.76065	1.29110	-0.00239	12.24159	0.11963	0.00406	0.81383
1.62973	-6.46335	1.56346	-0.24160	-1.76080	1.28974	-0.00237	12.39268	0.11895	0.00379	0.82100
1.66806	-6.51860	1.56640	-0.24359	-1.76097	1.28831	-0.00236	12.53813	0.11839	0.00353	0.82840
1.70736	-6.57303	1.56921	-0.24570	-1.76114	1.28682	-0.00234	12.67806	0.11794	0.00330	0.83606
1.74764	-6.62720	1.57197	-0.24790	-1.76130	1.28528	-0.00233	12.81299	0.11757	0.00307	0.84397
1.78859	-6.68141	1.57479	-0.25014	-1.76142	1.28371	-0.00232	12.94260	0.11727	0.00284	0.85211
1.83083	-6.73800	1.57783	-0.25239	-1.76132	1.28198	-0.00230	13.06671	0.11701	0.00260	0.86062
1.87371	-6.79539	1.58114	-0.25461	-1.76125	1.28030	-0.00229	13.18846	0.11678	0.00235	0.86939
1.91791	-6.85558	1.58481	-0.25679	-1.76103	1.27854	-0.00227	13.30768	0.11656	0.00208	0.87850
1.96309	-6.91845	1.58883	-0.25891	-1.76059	1.27668	-0.00226	13.42272	0.11635	0.00179	0.88776

2.00924	-6.98409	1.59315	-0.26097	-1.75988	1.27469	-0.00225	13.53285	0.11614	0.00150	0.89703
2.05634	-7.05233	1.59769	-0.26298	-1.75886	1.27257	-0.00223	13.63721	0.11593	0.00120	0.90613
2.10482	-7.12358	1.60243	-0.26497	-1.75747	1.27025	-0.00222	13.73569	0.11574	0.00090	0.91497
2.15424	-7.19690	1.60722	-0.26694	-1.75569	1.26775	-0.00221	13.82646	0.11557	0.00061	0.92325
2.20507	-7.27349	1.61202	-0.26891	-1.75333	1.26493	-0.00220	13.90650	0.11543	0.00034	0.93091
2.25683	-7.35071	1.61676	-0.27088	-1.75075	1.26202	-0.00219	13.98064	0.11532	0.00009	0.93792
2.31000	-7.42984	1.62145	-0.27286	-1.74780	1.25892	-0.00217	14.04666	0.11524	-0.00015	0.94444
2.36463	-7.51094	1.62610	-0.27484	-1.74447	1.25562	-0.00216	14.10422	0.11520	-0.00037	0.95057
2.42014	-7.59322	1.63069	-0.27681	-1.74082	1.25216	-0.00215	14.15305	0.11519	-0.00057	0.95638
2.47709	-7.67744	1.63532	-0.27874	-1.73689	1.24857	-0.00214	14.19468	0.11522	-0.00077	0.96210
2.53550	-7.76400	1.64005	-0.28063	-1.73264	1.24482	-0.00213	14.22894	0.11527	-0.00096	0.96791
2.59471	-7.85220	1.64491	-0.28244	-1.72814	1.24097	-0.00212	14.25567	0.11535	-0.00114	0.97388
2.65604	-7.94380	1.65004	-0.28417	-1.72340	1.23699	-0.00211	14.27725	0.11545	-0.00134	0.98024
2.71887	-8.03857	1.65544	-0.28581	-1.71834	1.23286	-0.00210	14.29182	0.11556	-0.00154	0.98698
2.78242	-8.13605	1.66109	-0.28733	-1.71292	1.22857	-0.00210	14.29702	0.11568	-0.00174	0.99408
2.84819	-8.23642	1.66709	-0.28871	-1.70746	1.22427	-0.00209	14.30121	0.11581	-0.00195	1.00180
2.91545	-8.34043	1.67347	-0.29001	-1.70164	1.21979	-0.00208	14.29763	0.11594	-0.00217	1.01009
2.98329	-8.44491	1.68001	-0.29111	-1.69589	1.21539	-0.00207	14.29200	0.11608	-0.00240	1.01874
3.05344	-8.55435	1.68696	-0.29215	-1.68964	1.21072	-0.00206	14.27752	0.11623	-0.00262	1.02772
3.12598	-8.66656	1.69423	-0.29302	-1.68337	1.20604	-0.00205	14.26122	0.11638	-0.00286	1.03687
3.19898	-8.78023	1.70163	-0.29380	-1.67680	1.20124	-0.00204	14.23695	0.11654	-0.00308	1.04563
3.27439	-8.89620	1.70931	-0.29443	-1.67024	1.19644	-0.00203	14.21088	0.11672	-0.00331	1.05400
3.35121	-9.01436	1.71711	-0.29499	-1.66335	1.19148	-0.00203	14.17705	0.11691	-0.00352	1.06167
3.43053	-9.13414	1.72513	-0.29540	-1.65657	1.18657	-0.00202	14.14233	0.11712	-0.00374	1.06899
3.51124	-9.25597	1.73323	-0.29576	-1.64939	1.18146	-0.00201	14.09856	0.11735	-0.00394	1.07605
3.59324	-9.37587	1.74130	-0.29593	-1.64272	1.17664	-0.00200	14.05877	0.11760	-0.00413	1.08321
3.67782	-9.50089	1.74965	-0.29615	-1.63523	1.17136	-0.00199	14.00420	0.11787	-0.00430	1.09083
3.76506	-9.62294	1.75788	-0.29604	-1.62870	1.16660	-0.00198	13.96128	0.11816	-0.00447	1.09938
3.85356	-9.75041	1.76647	-0.29614	-1.62101	1.16121	-0.00198	13.89726	0.11849	-0.00461	1.10852
3.94477	-9.87339	1.77470	-0.29579	-1.61451	1.15647	-0.00197	13.84784	0.11884	-0.00474	1.11837
4.03714	-10.00057	1.78343	-0.29565	-1.60719	1.15129	-0.00196	13.78276	0.11921	-0.00486	1.12834
4.13223	-10.12597	1.79190	-0.29523	-1.60037	1.14638	-0.00195	13.72339	0.11959	-0.00496	1.13844
4.23012	-10.25026	1.80059	-0.29460	-1.59426	1.14186	-0.00194	13.67105	0.12001	-0.00507	1.14834
4.32900	-10.38172	1.80968	-0.29427	-1.58649	1.13641	-0.00193	13.59113	0.12045	-0.00515	1.15742
4.43066	-10.50219	1.81811	-0.29319	-1.58126	1.13240	-0.00193	13.54734	0.12087	-0.00524	1.16603
4.53515	-10.63297	1.82756	-0.29248	-1.57444	1.12746	-0.00192	13.47595	0.12135	-0.00532	1.17395
4.64253	-10.76528	1.83690	-0.29164	-1.56731	1.12235	-0.00191	13.39933	0.12183	-0.00540	1.18127
4.75059	-10.88368	1.84561	-0.29006	-1.56313	1.11895	-0.00190	13.36372	0.12230	-0.00549	1.18807
4.86145	-11.01925	1.85576	-0.28917	-1.55590	1.11375	-0.00189	13.27904	0.12283	-0.00556	1.19420
4.97760	-11.15224	1.86546	-0.28782	-1.54950	1.10904	-0.00188	13.20753	0.12334	-0.00563	1.20005
5.09424	-11.27088	1.87464	-0.28570	-1.54622	1.10613	-0.00187	13.17958	0.12383	-0.00572	1.20555
5.21376	-11.41127	1.88560	-0.28450	-1.53900	1.10091	-0.00186	13.08914	0.12441	-0.00578	1.21051
5.33618	-11.54619	1.89574	-0.28290	-1.53257	1.09616	-0.00185	13.01128	0.12495	-0.00584	1.21525
5.46150	-11.66196	1.90502	-0.28012	-1.53057	1.09401	-0.00184	12.99821	0.12544	-0.00593	1.22005
5.58971	-11.80079	1.91642	-0.27828	-1.52462	1.08950	-0.00183	12.92163	0.12604	-0.00599	1.22459
5.72082	-11.94811	1.92791	-0.27682	-1.51654	1.08374	-0.00182	12.81311	0.12664	-0.00603	1.22908
5.85823	-12.06446	1.93730	-0.27348	-1.51524	1.08199	-0.00181	12.80757	0.12713	-0.00611	1.23414
5.99520	-12.19028	1.94820	-0.27055	-1.51253	1.07938	-0.00180	12.77605	0.12769	-0.00617	1.23915
6.13497	-12.34566	1.96112	-0.26897	-1.50401	1.07330	-0.00179	12.65397	0.12837	-0.00619	1.24401
6.28141	-12.48123	1.97186	-0.26633	-1.49902	1.06935	-0.00178	12.58844	0.12893	-0.00623	1.24930
6.42674	-12.58528	1.98102	-0.26219	-1.50036	1.06919	-0.00177	12.61705	0.12938	-0.00630	1.25482
6.57895	-12.72066	1.99324	-0.25902	-1.49709	1.06620	-0.00176	12.57093	0.13001	-0.00633	1.26041
6.73401	-12.88747	2.00735	-0.25735	-1.48734	1.05932	-0.00175	12.42429	0.13077	-0.00632	1.26586
6.89180	-13.01412	2.01753	-0.25413	-1.48402	1.05638	-0.00174	12.37985	0.13130	-0.00635	1.27161
7.05716	-13.11395	2.02667	-0.24904	-1.48743	1.05745	-0.00173	12.43589	0.13174	-0.00640	1.27779
7.22022	-13.24096	2.03859	-0.24525	-1.48586	1.05550	-0.00172	12.41146	0.13233	-0.00641	1.28347
7.39098	-13.41216	2.05371	-0.24315	-1.47648	1.04878	-0.00171	12.26341	0.13316	-0.00638	1.28885
7.56430	-13.56009	2.06569	-0.24062	-1.46953	1.04362	-0.00170	12.15809	0.13382	-0.00636	1.29399
7.73994	-13.64081	2.07287	-0.23502	-1.47528	1.04620	-0.00169	12.24930	0.13414	-0.00640	1.29914
7.92393	-13.74843	2.08348	-0.22989	-1.47812	1.04691	-0.00168	12.29108	0.13462	-0.00641	1.30381
8.11030	-13.88962	2.09698	-0.22606	-1.47509	1.04403	-0.00167	12.23744	0.13531	-0.00640	1.30785
8.29876	-14.07708	2.11328	-0.22441	-1.46267	1.03546	-0.00165	12.03484	0.13630	-0.00634	1.31122
8.49618	-14.20605	2.12342	-0.22091	-1.45915	1.03239	-0.00165	11.97914	0.13688	-0.00632	1.31470
8.69565	-14.26200	2.12907	-0.21418	-1.46979	1.03796	-0.00164	12.14642	0.13700	-0.00635	1.31830
8.90472	-14.36527	2.13971	-0.20856	-1.47401	1.03951	-0.00163	12.20691	0.13744	-0.00634	1.32160
9.11577	-14.49293	2.15237	-0.20382	-1.47392	1.03842	-0.00161	12.19543	0.13807	-0.00631	1.32470
9.32836	-14.68424	2.16993	-0.20158	-1.46235	1.03033	-0.00160	11.99662	0.13916	-0.00623	1.32752
9.54198	-14.85437	2.18339	-0.19975	-1.45114	1.02258	-0.00159	11.81098	0.14009	-0.00617	1.33056
9.76563	-14.89266	2.18653	-0.19312	-1.46312	1.02906	-0.00158	12.00352	0.14002	-0.00618	1.33465
10.00000	-14.94291	2.19285	-0.18575	-1.47610	1.03598	-0.00157	12.20711	0.14003	-0.00617	1.33926

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Atkinson and Boore (1995) model
Median stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 30 - 61 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-4.53465	2.21889	0.04335	-2.12153	1.58254	-0.00210	3.05198	0.38590	-0.02657	0.41625
PGV	1.70273	1.52843	-0.08709	-2.07333	1.40909	-0.00283	2.32801	0.46805	-0.02167	0.41961
PGA	0.07706	1.51910	-0.00859	-2.34943	1.09409	-0.00280	2.21673	0.57354	-0.02322	0.71040
0.01000	0.43158	1.53185	-0.00724	-2.41825	1.07816	-0.00270	2.49338	0.56354	-0.00921	0.68336
0.01024	0.43253	1.53387	-0.00661	-2.41936	1.07335	-0.00269	2.48897	0.56458	-0.00919	0.68390
0.01048	0.43752	1.53586	-0.00600	-2.42117	1.06873	-0.00268	2.48756	0.56547	-0.00918	0.68445
0.01072	0.44683	1.53784	-0.00540	-2.42376	1.06426	-0.00267	2.48935	0.56618	-0.00918	0.68501
0.01097	0.46060	1.53983	-0.00481	-2.42716	1.05990	-0.00266	2.49443	0.56673	-0.00920	0.68560
0.01123	0.47973	1.54184	-0.00423	-2.43155	1.05566	-0.00265	2.50353	0.56708	-0.00922	0.68623
0.01150	0.50442	1.54390	-0.00365	-2.43697	1.05149	-0.00263	2.51676	0.56725	-0.00927	0.68691
0.01177	0.53476	1.54603	-0.00308	-2.44344	1.04731	-0.00261	2.53415	0.56723	-0.00933	0.68766
0.01205	0.57075	1.54823	-0.00249	-2.45095	1.04304	-0.00260	2.55566	0.56705	-0.00940	0.68850
0.01233	0.61242	1.55052	-0.00190	-2.45950	1.03864	-0.00258	2.58127	0.56671	-0.00951	0.68947
0.01262	0.66056	1.55292	-0.00129	-2.46927	1.03410	-0.00255	2.61164	0.56619	-0.00963	0.69059
0.01292	0.71637	1.55546	-0.00067	-2.48047	1.02943	-0.00253	2.64775	0.56547	-0.00979	0.69187
0.01322	0.78019	1.55815	-0.00003	-2.49317	1.02460	-0.00250	2.68990	0.56455	-0.00997	0.69334
0.01353	0.85241	1.56101	0.00063	-2.50744	1.01954	-0.00247	2.73840	0.56343	-0.01019	0.69498
0.01385	0.93461	1.56410	0.00132	-2.52361	1.01429	-0.00244	2.79454	0.56207	-0.01043	0.69683
0.01417	1.02797	1.56744	0.00204	-2.54191	1.00878	-0.00240	2.85935	0.56047	-0.01069	0.69891
0.01451	1.13267	1.57105	0.00281	-2.56232	1.00281	-0.00236	2.93301	0.55865	-0.01101	0.70131
0.01485	1.24670	1.57491	0.00363	-2.58442	0.99614	-0.00232	3.01381	0.55672	-0.01137	0.70416
0.01520	1.36788	1.57900	0.00451	-2.60778	0.98861	-0.00228	3.09980	0.55477	-0.01180	0.70745
0.01556	1.49589	1.58334	0.00543	-2.63233	0.98018	-0.00223	3.19067	0.55284	-0.01226	0.71116
0.01592	1.63023	1.58793	0.00640	-2.65797	0.97088	-0.00217	3.28601	0.55095	-0.01278	0.71529
0.01630	1.76690	1.59272	0.00742	-2.68392	0.96066	-0.00212	3.38209	0.54923	-0.01333	0.71980
0.01668	1.90270	1.59769	0.00851	-2.70956	0.94947	-0.00207	3.47577	0.54778	-0.01390	0.72456
0.01707	2.03474	1.60276	0.00967	-2.73430	0.93719	-0.00202	3.56444	0.54668	-0.01449	0.72953
0.01748	2.16599	1.60799	0.01087	-2.75868	0.92382	-0.00196	3.65079	0.54583	-0.01511	0.73478
0.01789	2.29808	1.61344	0.01208	-2.78306	0.90933	-0.00191	3.73628	0.54518	-0.01576	0.74036
0.01831	2.42615	1.61905	0.01331	-2.80655	0.89400	-0.00186	3.81658	0.54483	-0.01643	0.74613
0.01874	2.54598	1.62477	0.01459	-2.82841	0.87822	-0.00181	3.88798	0.54486	-0.01711	0.75204
0.01918	2.65058	1.63053	0.01595	-2.84726	0.86166	-0.00176	3.94408	0.54545	-0.01781	0.75819
0.01963	2.73157	1.63621	0.01741	-2.86140	0.84335	-0.00172	3.97686	0.54686	-0.01852	0.76437
0.02009	2.78829	1.64189	0.01900	-2.87077	0.82292	-0.00169	3.98504	0.54915	-0.01918	0.77037
0.02057	2.81944	1.64765	0.02073	-2.87539	0.80111	-0.00166	3.96681	0.55234	-0.01978	0.77600
0.02105	2.82658	1.65342	0.02256	-2.87579	0.77953	-0.00164	3.92467	0.55624	-0.02028	0.78096
0.02154	2.82399	1.65913	0.02441	-2.87458	0.75941	-0.00162	3.87448	0.56031	-0.02065	0.78505
0.02205	2.81281	1.66468	0.02625	-2.87197	0.74114	-0.00161	3.81837	0.56446	-0.02096	0.78869
0.02257	2.78298	1.66987	0.02805	-2.86593	0.72465	-0.00161	3.74861	0.56891	-0.02126	0.79232
0.02310	2.74318	1.67449	0.02972	-2.85756	0.70920	-0.00161	3.67566	0.57338	-0.02155	0.79582
0.02364	2.69877	1.67876	0.03120	-2.84787	0.69369	-0.00162	3.60416	0.57781	-0.02174	0.79866
0.02420	2.62572	1.68303	0.03273	-2.83303	0.67776	-0.00163	3.51073	0.58307	-0.02178	0.80057
0.02477	2.51152	1.68736	0.03447	-2.81115	0.66194	-0.00166	3.38348	0.58962	-0.02167	0.80147
0.02535	2.37785	1.69154	0.03638	-2.78591	0.64692	-0.00169	3.24325	0.59678	-0.02148	0.80179
0.02595	2.25035	1.69570	0.03835	-2.76182	0.63294	-0.00172	3.11286	0.60374	-0.02128	0.80202
0.02656	2.13375	1.70023	0.04035	-2.74009	0.61951	-0.00175	2.99433	0.61046	-0.02105	0.80204
0.02719	2.01550	1.70518	0.04242	-2.71852	0.60626	-0.00178	2.87727	0.61734	-0.02076	0.80181
0.02783	1.89786	1.71033	0.04447	-2.69722	0.59353	-0.00181	2.76529	0.62422	-0.02049	0.80182
0.02848	1.78254	1.71549	0.04640	-2.67623	0.58085	-0.00184	2.65951	0.63101	-0.02022	0.80199
0.02915	1.65970	1.72021	0.04822	-2.65367	0.56845	-0.00187	2.55198	0.63800	-0.01990	0.80180
0.02984	1.50932	1.72411	0.05008	-2.62598	0.55724	-0.00191	2.42873	0.64581	-0.01942	0.80058
0.03054	1.32786	1.72717	0.05206	-2.59238	0.54610	-0.00195	2.28874	0.65471	-0.01879	0.79841
0.03126	1.14590	1.72985	0.05400	-2.55830	0.53429	-0.00200	2.15499	0.66371	-0.01815	0.79611
0.03199	0.98912	1.73279	0.05586	-2.52884	0.52388	-0.00204	2.04489	0.67171	-0.01757	0.79439
0.03275	0.85019	1.73587	0.05781	-2.50291	0.51668	-0.00208	1.95177	0.67883	-0.01710	0.79351
0.03352	0.71872	1.73837	0.05984	-2.47826	0.51264	-0.00213	1.86661	0.68542	-0.01663	0.79267
0.03430	0.59001	1.73972	0.06166	-2.45340	0.50974	-0.00218	1.78491	0.69180	-0.01610	0.79136
0.03511	0.46051	1.73992	0.06310	-2.42738	0.50637	-0.00223	1.70488	0.69818	-0.01562	0.79028
0.03594	0.33714	1.73965	0.06412	-2.40201	0.50348	-0.00228	1.63116	0.70425	-0.01511	0.78907
0.03678	0.23066	1.73937	0.06484	-2.37992	0.50316	-0.00233	1.56964	0.70940	-0.01443	0.78688
0.03765	0.14258	1.73866	0.06532	-2.36100	0.50526	-0.00238	1.52060	0.71348	-0.01360	0.78384
0.03854	0.05951	1.73701	0.06567	-2.34221	0.50709	-0.00242	1.47562	0.71723	-0.01277	0.78057
0.03944	-0.03523	1.73455	0.06607	-2.32055	0.50799	-0.00247	1.42571	0.72147	-0.01205	0.77783
0.04037	-0.14994	1.73206	0.06675	-2.29517	0.50866	-0.00253	1.36748	0.72667	-0.01140	0.77546
0.04132	-0.27810	1.73026	0.06763	-2.26776	0.50772	-0.00258	1.30367	0.73286	-0.01064	0.77254
0.04229	-0.40944	1.72887	0.06850	-2.23979	0.50376	-0.00263	1.23879	0.73972	-0.00984	0.76950
0.04329	-0.53643	1.72704	0.06926	-2.21183	0.49811	-0.00267	1.17770	0.74661	-0.00915	0.76728
0.04431	-0.65187	1.72478	0.06986	-2.18527	0.49376	-0.00272	1.12491	0.75281	-0.00853	0.76541
0.04535	-0.75855	1.72259	0.07025	-2.16072	0.49238	-0.00277	1.07755	0.75844	-0.00782	0.76272

0.04642	-0.86853	1.72058	0.07054	-2.13673	0.49480	-0.00282	1.02896	0.76415	-0.00697	0.75890
0.04751	-0.97570	1.71837	0.07063	-2.11393	0.50087	-0.00288	0.98220	0.76955	-0.00605	0.75447
0.04863	-1.05353	1.71528	0.07010	-2.09602	0.50942	-0.00294	0.94818	0.77318	-0.00512	0.74983
0.04977	-1.09906	1.71087	0.06903	-2.08273	0.51866	-0.00298	0.92742	0.77490	-0.00415	0.74480
0.05094	-1.14210	1.70526	0.06788	-2.06875	0.52682	-0.00303	0.90725	0.77652	-0.00302	0.73863
0.05214	-1.20830	1.69930	0.06702	-2.05027	0.53330	-0.00307	0.87771	0.77961	-0.00166	0.73077
0.05337	-1.29569	1.69358	0.06653	-2.02823	0.53944	-0.00313	0.84094	0.78398	-0.00025	0.72237
0.05462	-1.38723	1.68806	0.06614	-2.00575	0.54622	-0.00318	0.80379	0.78861	0.00091	0.71539
0.05591	-1.47071	1.68218	0.06550	-1.98469	0.55328	-0.00323	0.76985	0.79285	0.00173	0.71057
0.05722	-1.54272	1.67523	0.06456	-1.96484	0.56022	-0.00328	0.74008	0.79646	0.00231	0.70734
0.05857	-1.59841	1.66743	0.06329	-1.94676	0.56663	-0.00332	0.71708	0.79903	0.00277	0.70489
0.05995	-1.63583	1.66031	0.06170	-1.93202	0.57257	-0.00335	0.70237	0.80038	0.00322	0.70269
0.06136	-1.66938	1.65485	0.06007	-1.91941	0.57847	-0.00339	0.69047	0.80145	0.00367	0.70069
0.06280	-1.71594	1.65026	0.05857	-1.90566	0.58386	-0.00342	0.67392	0.80348	0.00411	0.69874
0.06428	-1.77358	1.64507	0.05712	-1.88977	0.58954	-0.00346	0.65303	0.80626	0.00464	0.69636
0.06579	-1.82679	1.63905	0.05559	-1.87404	0.59869	-0.00350	0.63466	0.80837	0.00532	0.69304
0.06734	-1.87129	1.63294	0.05395	-1.85966	0.61309	-0.00356	0.62135	0.80930	0.00617	0.68852
0.06893	-1.91594	1.62665	0.05224	-1.84496	0.63075	-0.00364	0.60915	0.80990	0.00705	0.68360
0.07055	-1.96798	1.61886	0.05046	-1.82743	0.64784	-0.00371	0.59357	0.81114	0.00764	0.68021
0.07221	-2.02971	1.60869	0.04865	-1.80584	0.66149	-0.00378	0.57280	0.81352	0.00783	0.67915
0.07391	-2.09741	1.59699	0.04675	-1.78169	0.67120	-0.00383	0.54861	0.81684	0.00783	0.67899
0.07565	-2.15722	1.58522	0.04454	-1.75903	0.67860	-0.00388	0.52636	0.81995	0.00789	0.67828
0.07743	-2.19140	1.57414	0.04171	-1.74190	0.68512	-0.00391	0.51204	0.82130	0.00805	0.67684
0.07925	-2.19204	1.56399	0.03813	-1.73170	0.69068	-0.00392	0.50855	0.82008	0.00825	0.67522
0.08111	-2.16334	1.55462	0.03383	-1.72736	0.69489	-0.00392	0.51507	0.81647	0.00845	0.67361
0.08302	-2.12609	1.54575	0.02933	-1.72490	0.69867	-0.00392	0.52554	0.81199	0.00874	0.67130
0.08498	-2.09678	1.53717	0.02508	-1.72144	0.70459	-0.00392	0.53472	0.80775	0.00929	0.66721
0.08697	-2.08055	1.52916	0.02129	-1.71643	0.71410	-0.00394	0.54088	0.80412	0.01014	0.66125
0.08902	-2.07210	1.52213	0.01791	-1.71113	0.72774	-0.00397	0.54598	0.80065	0.01121	0.65427
0.09112	-2.07268	1.51591	0.01491	-1.70505	0.74428	-0.00402	0.54927	0.79759	0.01227	0.64795
0.09326	-2.08565	1.50927	0.01222	-1.69650	0.76083	-0.00406	0.54800	0.79548	0.01303	0.64420
0.09545	-2.11828	1.50119	0.00976	-1.68333	0.77447	-0.00411	0.53808	0.79525	0.01340	0.64335
0.09770	-2.17460	1.49181	0.00739	-1.66496	0.78377	-0.00414	0.51792	0.79745	0.01352	0.64410
0.10000	-2.24228	1.48199	0.00475	-1.64434	0.78918	-0.00416	0.49282	0.80109	0.01361	0.64490
0.10235	-2.31055	1.47284	0.00175	-1.62428	0.79165	-0.00418	0.46807	0.80508	0.01384	0.64462
0.10476	-2.37424	1.46485	-0.00146	-1.60594	0.79187	-0.00418	0.44646	0.80875	0.01416	0.64346
0.10723	-2.42746	1.45822	-0.00475	-1.59057	0.79112	-0.00419	0.43011	0.81138	0.01437	0.64286
0.10975	-2.45779	1.45337	-0.00826	-1.58107	0.79317	-0.00419	0.42291	0.81154	0.01434	0.64385
0.11233	-2.45609	1.44983	-0.01225	-1.57898	0.80098	-0.00420	0.42690	0.80825	0.01407	0.64654
0.11498	-2.42876	1.44601	-0.01678	-1.58188	0.81357	-0.00420	0.43866	0.80235	0.01360	0.65059
0.11768	-2.39020	1.44061	-0.02163	-1.58591	0.82833	-0.00421	0.45292	0.79538	0.01299	0.65553
0.12045	-2.35114	1.43359	-0.02647	-1.58890	0.84402	-0.00422	0.46652	0.78833	0.01230	0.66071
0.12328	-2.31086	1.42555	-0.03132	-1.59128	0.86038	-0.00422	0.48066	0.78100	0.01168	0.66514
0.12619	-2.26514	1.41689	-0.03638	-1.59402	0.87716	-0.00423	0.49753	0.77294	0.01128	0.66778
0.12916	-2.21432	1.40776	-0.04169	-1.59700	0.89398	-0.00424	0.51776	0.76414	0.01115	0.66852
0.13219	-2.16492	1.39865	-0.04704	-1.59942	0.90962	-0.00424	0.53961	0.75526	0.01134	0.66704
0.13531	-2.12097	1.39057	-0.05222	-1.60157	0.92307	-0.00423	0.56210	0.74672	0.01199	0.66222
0.13849	-2.08167	1.38473	-0.05702	-1.60496	0.93560	-0.00422	0.58658	0.73836	0.01307	0.65426
0.14175	-2.05116	1.38193	-0.06114	-1.60956	0.94921	-0.00422	0.61228	0.73046	0.01425	0.64537
0.14508	-2.03381	1.38199	-0.06449	-1.61431	0.96425	-0.00423	0.63683	0.72350	0.01517	0.63818
0.14850	-2.03243	1.38411	-0.06723	-1.61801	0.97910	-0.00425	0.65697	0.71795	0.01571	0.63353
0.15199	-2.04398	1.38729	-0.06966	-1.62052	0.99295	-0.00428	0.67198	0.71368	0.01599	0.63077
0.15557	-2.06035	1.39062	-0.07209	-1.62279	1.00591	-0.00429	0.68383	0.71001	0.01611	0.62921
0.15923	-2.07008	1.39352	-0.07480	-1.62671	1.01841	-0.00430	0.69689	0.70593	0.01604	0.62900
0.16298	-2.07059	1.39537	-0.07786	-1.63225	1.03032	-0.00430	0.71228	0.70112	0.01575	0.63037
0.16681	-2.06748	1.39540	-0.08117	-1.63732	1.04086	-0.00428	0.72817	0.69585	0.01528	0.63302
0.17074	-2.06786	1.39308	-0.08453	-1.63962	1.04920	-0.00426	0.74218	0.69052	0.01458	0.63739
0.17475	-2.07483	1.38824	-0.08773	-1.63804	1.05517	-0.00424	0.75363	0.68530	0.01343	0.64508
0.17887	-2.08593	1.38133	-0.09071	-1.63339	1.05960	-0.00421	0.76426	0.67993	0.01172	0.65663
0.18307	-2.10121	1.37341	-0.09346	-1.62693	1.06280	-0.00419	0.77370	0.67461	0.00973	0.67016
0.18738	-2.12163	1.36574	-0.09614	-1.62007	1.06455	-0.00415	0.78058	0.66972	0.00787	0.68292
0.19179	-2.14607	1.35939	-0.09890	-1.61423	1.06558	-0.00411	0.78497	0.66539	0.00638	0.69318
0.19631	-2.17253	1.35490	-0.10180	-1.61020	1.06768	-0.00406	0.78883	0.66139	0.00539	0.70011
0.20092	-2.20231	1.35240	-0.10473	-1.60758	1.07178	-0.00402	0.79304	0.65760	0.00496	0.70328
0.20565	-2.24174	1.35165	-0.10744	-1.60460	1.07674	-0.00398	0.79478	0.65452	0.00501	0.70314
0.21049	-2.29646	1.35207	-0.10974	-1.59940	1.08053	-0.00396	0.79019	0.65274	0.00527	0.70167
0.21544	-2.36689	1.35296	-0.11164	-1.59107	1.08168	-0.00394	0.77800	0.65243	0.00538	0.70120
0.22051	-2.44575	1.35409	-0.11333	-1.58088	1.08023	-0.00393	0.76119	0.65312	0.00521	0.70269
0.22570	-2.52355	1.35582	-0.11505	-1.57122	1.07744	-0.00391	0.74476	0.65402	0.00491	0.70528
0.23101	-2.59466	1.35841	-0.11691	-1.56359	1.07482	-0.00389	0.73212	0.65453	0.00465	0.70803
0.23645	-2.65846	1.36168	-0.11887	-1.55803	1.07290	-0.00388	0.72443	0.65431	0.00444	0.71076
0.24201	-2.71887	1.36517	-0.12090	-1.55329	1.07100	-0.00387	0.72032	0.65348	0.00429	0.71314
0.24771	-2.77997	1.36850	-0.12300	-1.54828	1.06811	-0.00385	0.71794	0.65224	0.00427	0.71457
0.25354	-2.84239	1.37152	-0.12519	-1.54295	1.06361	-0.00384	0.71678	0.65061	0.00431	0.71523
0.25950	-2.90538	1.37445	-0.12737	-1.53783	1.05751	-0.00381	0.71689	0.64860	0.00420	0.71647
0.26561	-2.96687	1.37774	-0.12945	-1.53397	1.05087	-0.00378	0.71913	0.64613	0.00377	0.71949
0.27186	-3.02659	1.38183	-0.13139	-1.53194	1.04505	-0.00374	0.72324	0.64331	0.00305	0.72411
0.27826	-3.08532	1.38674	-0.13328	-1.53163	1.04129	-0.00371	0.72859	0.64021	0.00226	0.72907
0.28480	-3.14393	1.39196	-0.13524	-1.53230	1.04012	-0.00367	0.73406	0.63693	0.00157	0.73338
0.29150	-3.20185	1.39687	-0.13741	-1.53323	1.04147	-0.00364	0.73975	0.63335	0.00098	0.73702
0.29836	-3.25647	1.40096	-0.13990	-1.53417	1.04480	-0.00362	0.74720	0.62917	0.00039	0.74056

0.30539	-3.30497	1.40409	-0.14280	-1.53525	1.04952	-0.00359	0.75908	0.62398	-0.00021	0.74413
0.31257	-3.34405	1.40642	-0.14608	-1.53717	1.05543	-0.00358	0.77831	0.61748	-0.00078	0.74742
0.31993	-3.37406	1.40844	-0.14964	-1.54039	1.06280	-0.00356	0.80581	0.60969	-0.00122	0.75002
0.32745	-3.39677	1.41053	-0.15332	-1.54499	1.07212	-0.00355	0.84081	0.60096	-0.00155	0.75218
0.33517	-3.41235	1.41286	-0.15701	-1.55120	1.08372	-0.00354	0.88381	0.59141	-0.00191	0.75490
0.34304	-3.42057	1.41544	-0.16061	-1.55905	1.09739	-0.00354	0.93513	0.58118	-0.00244	0.75906
0.35112	-3.41925	1.41823	-0.16414	-1.56895	1.11345	-0.00353	0.99700	0.57015	-0.00310	0.76453
0.35938	-3.40603	1.42143	-0.16762	-1.58153	1.13253	-0.00353	1.07232	0.55826	-0.00374	0.77041
0.36784	-3.37617	1.42518	-0.17106	-1.59785	1.15510	-0.00352	1.16683	0.54521	-0.00428	0.77631
0.37649	-3.32630	1.42929	-0.17448	-1.61826	1.18039	-0.00352	1.28529	0.53100	-0.00483	0.78278
0.38536	-3.26037	1.43343	-0.17776	-1.64151	1.20641	-0.00351	1.42773	0.51605	-0.00551	0.79059
0.39442	-3.18420	1.43723	-0.18084	-1.66595	1.23107	-0.00349	1.59054	0.50104	-0.00636	0.79981
0.40370	-3.10171	1.44064	-0.18374	-1.69071	1.25326	-0.00346	1.77162	0.48634	-0.00725	0.80942
0.41321	-3.01707	1.44382	-0.18644	-1.71518	1.27264	-0.00343	1.96849	0.47219	-0.00797	0.81794
0.42292	-2.93400	1.44671	-0.18898	-1.73860	1.28915	-0.00339	2.17657	0.45886	-0.00842	0.82442
0.43288	-2.85528	1.44920	-0.19143	-1.76040	1.30276	-0.00335	2.39123	0.44648	-0.00856	0.82866
0.44307	-2.78368	1.45156	-0.19375	-1.78029	1.31390	-0.00331	2.60806	0.43514	-0.00850	0.83122
0.45349	-2.72049	1.45384	-0.19589	-1.79803	1.32282	-0.00326	2.82312	0.42490	-0.00839	0.83331
0.46417	-2.66328	1.45592	-0.19788	-1.81396	1.32950	-0.00322	3.03579	0.41569	-0.00840	0.83610
0.47508	-2.60884	1.45804	-0.19969	-1.82898	1.33437	-0.00318	3.24984	0.40726	-0.00855	0.83985
0.48626	-2.55576	1.46050	-0.20134	-1.84372	1.33806	-0.00313	3.46730	0.39950	-0.00874	0.84403
0.49771	-2.50381	1.46337	-0.20287	-1.85842	1.34088	-0.00308	3.68512	0.39247	-0.00884	0.84789
0.50942	-2.45858	1.46665	-0.20427	-1.87212	1.34220	-0.00304	3.89214	0.38641	-0.00878	0.85088
0.52140	-2.42792	1.47053	-0.20540	-1.88361	1.34147	-0.00299	4.07542	0.38151	-0.00853	0.85271
0.53367	-2.42052	1.47507	-0.20624	-1.89139	1.33827	-0.00295	4.21756	0.37802	-0.00806	0.85310
0.54624	-2.44495	1.48010	-0.20689	-1.89378	1.33197	-0.00290	4.29738	0.37634	-0.00734	0.85179
0.55910	-2.50801	1.48552	-0.20739	-1.88946	1.32173	-0.00286	4.29989	0.37671	-0.00639	0.84886
0.57225	-2.61100	1.49132	-0.20769	-1.87822	1.30735	-0.00283	4.22552	0.37903	-0.00534	0.84491
0.58569	-2.74887	1.49745	-0.20783	-1.86094	1.28957	-0.00279	4.08668	0.38303	-0.00428	0.84065
0.59948	-2.91488	1.50376	-0.20789	-1.83878	1.26937	-0.00277	3.89828	0.38850	-0.00328	0.83652
0.61357	-3.10071	1.51012	-0.20789	-1.81318	1.24756	-0.00274	3.67876	0.39509	-0.00235	0.83271
0.62802	-3.29937	1.51657	-0.20787	-1.78562	1.22483	-0.00273	3.44678	0.40233	-0.00150	0.82937
0.64280	-3.50432	1.52293	-0.20788	-1.75721	1.20176	-0.00271	3.21830	0.40965	-0.00081	0.82694
0.65794	-3.71356	1.52872	-0.20805	-1.72785	1.17789	-0.00270	2.99838	0.41681	-0.00036	0.82610
0.67340	-3.92763	1.53352	-0.20842	-1.69689	1.15328	-0.00269	2.78604	0.42381	-0.00020	0.82746
0.68927	-4.14607	1.53754	-0.20895	-1.66469	1.12923	-0.00269	2.58254	0.43062	-0.00034	0.83115
0.70547	-4.36467	1.54122	-0.20957	-1.63266	1.10688	-0.00269	2.39296	0.43700	-0.00068	0.83651
0.72207	-4.58140	1.54471	-0.21031	-1.60158	1.08645	-0.00270	2.22028	0.44266	-0.00117	0.84281
0.73910	-4.79031	1.54827	-0.21113	-1.57299	1.06898	-0.00271	2.07044	0.44721	-0.00171	0.84926
0.75649	-4.98474	1.55211	-0.21194	-1.54849	1.05583	-0.00272	1.94857	0.45031	-0.00226	0.85518
0.77429	-5.16370	1.55611	-0.21273	-1.52821	1.04691	-0.00274	1.85388	0.45177	-0.00279	0.86003
0.79246	-5.32860	1.56010	-0.21349	-1.51162	1.04143	-0.00276	1.78433	0.45148	-0.00327	0.86337
0.81116	-5.48521	1.56392	-0.21423	-1.49739	1.03793	-0.00278	1.73594	0.44936	-0.00370	0.86514
0.83022	-5.63587	1.56727	-0.21499	-1.48443	1.03476	-0.00279	1.70490	0.44554	-0.00404	0.86526
0.84976	-5.78030	1.57005	-0.21594	-1.47254	1.03192	-0.00280	1.69152	0.43998	-0.00425	0.86394
0.86972	-5.91234	1.57210	-0.21726	-1.46262	1.02959	-0.00281	1.70100	0.43243	-0.00431	0.86135
0.89023	-6.02936	1.57316	-0.21901	-1.45493	1.02795	-0.00281	1.73847	0.42259	-0.00417	0.85765
0.91116	-6.12455	1.57335	-0.22110	-1.45088	1.02741	-0.00281	1.81364	0.41014	-0.00383	0.85337
0.93257	-6.19838	1.57298	-0.22336	-1.45074	1.02862	-0.00280	1.93186	0.39513	-0.00335	0.84879
0.95456	-6.25530	1.57241	-0.22557	-1.45402	1.03183	-0.00278	2.09387	0.37806	-0.00277	0.84407
0.97704	-6.30030	1.57188	-0.22757	-1.45985	1.03691	-0.00276	2.29619	0.35975	-0.00213	0.83936
1.00000	-6.33885	1.57141	-0.22930	-1.46704	1.04320	-0.00274	2.53273	0.34100	-0.00144	0.83465
1.02354	-6.37333	1.57074	-0.23078	-1.47485	1.05027	-0.00273	2.80192	0.32216	-0.00071	0.83001
1.04767	-6.40214	1.56967	-0.23206	-1.48332	1.05837	-0.00271	3.10818	0.30330	0.00003	0.82562
1.07227	-6.42160	1.56818	-0.23319	-1.49310	1.06823	-0.00270	3.45973	0.28449	0.00077	0.82155
1.09745	-6.42950	1.56646	-0.23421	-1.50493	1.08042	-0.00269	3.86766	0.26567	0.00152	0.81758
1.12334	-6.42635	1.56477	-0.23512	-1.51897	1.09514	-0.00268	4.33908	0.24699	0.00230	0.81364
1.14982	-6.41492	1.56328	-0.23590	-1.53468	1.11198	-0.00268	4.87037	0.22884	0.00306	0.80993
1.17675	-6.40107	1.56205	-0.23657	-1.55075	1.12953	-0.00267	5.44429	0.21172	0.00378	0.80657
1.20453	-6.38860	1.56100	-0.23715	-1.56649	1.14689	-0.00267	6.05479	0.19561	0.00446	0.80345
1.23289	-6.37900	1.56000	-0.23771	-1.58132	1.16317	-0.00266	6.68481	0.18078	0.00513	0.80044
1.26183	-6.37223	1.55890	-0.23830	-1.59511	1.17813	-0.00266	7.32508	0.16723	0.00580	0.79734
1.29149	-6.36844	1.55766	-0.23894	-1.60787	1.19178	-0.00265	7.97054	0.15486	0.00651	0.79411
1.32188	-6.36989	1.55631	-0.23961	-1.61918	1.20390	-0.00264	8.60773	0.14369	0.00723	0.79093
1.35300	-6.37866	1.55499	-0.24027	-1.62875	1.21433	-0.00263	9.22448	0.13368	0.00790	0.78822
1.38485	-6.39576	1.55390	-0.24089	-1.63654	1.22310	-0.00263	9.81290	0.12477	0.00847	0.78639
1.41743	-6.42100	1.55322	-0.24144	-1.64279	1.23037	-0.00262	10.36930	0.11688	0.00890	0.78575
1.45075	-6.45307	1.55304	-0.24193	-1.64786	1.23642	-0.00261	10.89462	0.10992	0.00919	0.78634
1.48500	-6.49173	1.55339	-0.24239	-1.65189	1.24133	-0.00260	11.38958	0.10379	0.00936	0.78806
1.51999	-6.53650	1.55416	-0.24284	-1.65482	1.24505	-0.00259	11.84782	0.09844	0.00944	0.79074
1.55569	-6.58704	1.55521	-0.24334	-1.65658	1.24753	-0.00258	12.26559	0.09382	0.00946	0.79419
1.59236	-6.64282	1.55639	-0.24392	-1.65721	1.24883	-0.00257	12.64432	0.08984	0.00943	0.79833
1.62973	-6.70239	1.55756	-0.24464	-1.65681	1.24902	-0.00256	12.98164	0.08645	0.00938	0.80303
1.66806	-6.76519	1.55868	-0.24550	-1.65553	1.24825	-0.00255	13.28149	0.08360	0.00930	0.80828
1.70736	-6.83064	1.55977	-0.24652	-1.65353	1.24667	-0.00253	13.54569	0.08122	0.00919	0.81410
1.74764	-6.89836	1.56091	-0.24768	-1.65097	1.24447	-0.00252	13.77693	0.07927	0.00905	0.82049
1.78859	-6.96828	1.56219	-0.24893	-1.64791	1.24174	-0.00251	13.97448	0.07772	0.00888	0.82741
1.83083	-7.04106	1.56376	-0.25025	-1.64450	1.23867	-0.00250	14.14594	0.07651	0.00865	0.83498
1.87371	-7.11568	1.56567	-0.25160	-1.64089	1.23541	-0.00249	14.29137	0.07561	0.00838	0.84305
1.91791	-7.19317	1.56801	-0.25298	-1.63709	1.23201	-0.00248	14.41627	0.07496	0.00806	0.85168
1.96309	-7.27262	1.57077	-0.25437	-1.63323	1.22856	-0.00247	14.52271	0.07454	0.00770	0.86066

2.00924	-7.35368	1.57392	-0.25576	-1.62934	1.22512	-0.00245	14.61314	0.07430	0.00730	0.86982
2.05634	-7.43576	1.57738	-0.25716	-1.62547	1.22171	-0.00244	14.69052	0.07421	0.00689	0.87895
2.10482	-7.51891	1.58110	-0.25859	-1.62165	1.21834	-0.00243	14.75823	0.07425	0.00647	0.88792
2.15424	-7.60174	1.58496	-0.26005	-1.61795	1.21503	-0.00242	14.81815	0.07439	0.00605	0.89642
2.20507	-7.68446	1.58892	-0.26156	-1.61439	1.21178	-0.00241	14.87289	0.07462	0.00564	0.90436
2.25683	-7.76588	1.59286	-0.26310	-1.61101	1.20862	-0.00240	14.92352	0.07490	0.00525	0.91169
2.31000	-7.84663	1.59681	-0.26469	-1.60780	1.20551	-0.00239	14.97151	0.07524	0.00489	0.91853
2.36463	-7.92683	1.60076	-0.26633	-1.60472	1.20244	-0.00238	15.01709	0.07562	0.00454	0.92500
2.42014	-8.00635	1.60468	-0.26797	-1.60168	1.19939	-0.00236	15.05816	0.07603	0.00422	0.93115
2.47709	-8.08549	1.60867	-0.26962	-1.59882	1.19643	-0.00235	15.09827	0.07647	0.00390	0.93721
2.53550	-8.16513	1.61278	-0.27125	-1.59601	1.19352	-0.00234	15.13551	0.07693	0.00360	0.94336
2.59471	-8.24477	1.61703	-0.27284	-1.59327	1.19069	-0.00233	15.16926	0.07741	0.00330	0.94969
2.65604	-8.32634	1.62155	-0.27437	-1.59054	1.18790	-0.00232	15.20090	0.07791	0.00300	0.95641
2.71887	-8.40960	1.62638	-0.27584	-1.58779	1.18516	-0.00231	15.22894	0.07842	0.00269	0.96353
2.78242	-8.49355	1.63147	-0.27721	-1.58508	1.18253	-0.00230	15.25351	0.07894	0.00238	0.97103
2.84819	-8.58019	1.63692	-0.27847	-1.58236	1.17994	-0.00228	15.27590	0.07948	0.00205	0.97915
2.91545	-8.66909	1.64277	-0.27966	-1.57955	1.17739	-0.00227	15.29391	0.08001	0.00172	0.98786
2.98329	-8.75827	1.64880	-0.28068	-1.57683	1.17496	-0.00226	15.31026	0.08054	0.00139	0.99692
3.05344	-8.85093	1.65527	-0.28164	-1.57392	1.17250	-0.00225	15.32205	0.08108	0.00106	1.00633
3.12598	-8.94603	1.66206	-0.28245	-1.57103	1.17008	-0.00224	15.33273	0.08162	0.00073	1.01588
3.19898	-9.04186	1.66903	-0.28317	-1.56802	1.16766	-0.00223	15.33892	0.08213	0.00041	1.02503
3.27439	-9.13985	1.67627	-0.28376	-1.56502	1.16526	-0.00222	15.34397	0.08266	0.00009	1.03375
3.35121	-9.23934	1.68367	-0.28428	-1.56186	1.16281	-0.00221	15.34505	0.08316	-0.00020	1.04175
3.43053	-9.34059	1.69128	-0.28466	-1.55873	1.16037	-0.00220	15.34545	0.08367	-0.00049	1.04937
3.51124	-9.44317	1.69900	-0.28500	-1.55538	1.15783	-0.00219	15.34134	0.08415	-0.00076	1.05670
3.59324	-9.54547	1.70666	-0.28515	-1.55214	1.15533	-0.00218	15.33675	0.08463	-0.00102	1.06410
3.67782	-9.65078	1.71465	-0.28535	-1.54859	1.15266	-0.00217	15.32663	0.08509	-0.00125	1.07197
3.76506	-9.75537	1.72245	-0.28524	-1.54540	1.15015	-0.00216	15.32196	0.08556	-0.00147	1.08071
3.85356	-9.86294	1.73071	-0.28532	-1.54169	1.14738	-0.00215	15.30612	0.08601	-0.00167	1.09010
3.94477	-9.96849	1.73849	-0.28498	-1.53847	1.14481	-0.00214	15.29878	0.08646	-0.00185	1.10011
4.03714	-10.07687	1.74686	-0.28484	-1.53485	1.14206	-0.00213	15.28081	0.08691	-0.00201	1.11030
4.13223	-10.18510	1.75493	-0.28443	-1.53131	1.13929	-0.00212	15.26489	0.08734	-0.00216	1.12054
4.23012	-10.29369	1.76315	-0.28382	-1.52808	1.13668	-0.00211	15.25108	0.08780	-0.00229	1.13057
4.32900	-10.40624	1.77193	-0.28349	-1.52408	1.13369	-0.00210	15.22216	0.08824	-0.00241	1.13981
4.43066	-10.51379	1.77983	-0.28246	-1.52105	1.13115	-0.00209	15.20939	0.08867	-0.00253	1.14845
4.53515	-10.62797	1.78890	-0.28176	-1.51740	1.12832	-0.00207	15.18126	0.08915	-0.00263	1.15647
4.64253	-10.74384	1.79789	-0.28094	-1.51345	1.12530	-0.00206	15.14862	0.08959	-0.00273	1.16387
4.75059	-10.85232	1.80603	-0.27944	-1.51074	1.12293	-0.00205	15.13380	0.09005	-0.00282	1.17061
4.86145	-10.97122	1.81589	-0.27856	-1.50680	1.11997	-0.00204	15.09315	0.09055	-0.00291	1.17683
4.97760	-11.09039	1.82520	-0.27725	-1.50295	1.11700	-0.00203	15.05652	0.09102	-0.00299	1.18270
5.09424	-11.20191	1.83375	-0.27524	-1.50047	1.11476	-0.00202	15.03851	0.09152	-0.00308	1.18808
5.21376	-11.32653	1.84448	-0.27404	-1.49641	1.11174	-0.00201	14.98832	0.09207	-0.00315	1.19311
5.33618	-11.44856	1.85432	-0.27248	-1.49242	1.10871	-0.00200	14.94178	0.09256	-0.00322	1.19786
5.46150	-11.56109	1.86290	-0.26984	-1.49028	1.10667	-0.00199	14.92371	0.09308	-0.00329	1.20249
5.58971	-11.68777	1.87402	-0.26803	-1.48665	1.10388	-0.00198	14.87316	0.09367	-0.00336	1.20705
5.72082	-11.81936	1.88544	-0.26656	-1.48191	1.10049	-0.00197	14.80534	0.09422	-0.00342	1.21163
5.85823	-11.93521	1.89410	-0.26338	-1.47982	1.09844	-0.00196	14.78411	0.09476	-0.00348	1.21650
5.99520	-12.05690	1.90446	-0.26056	-1.47738	1.09629	-0.00195	14.74832	0.09538	-0.00353	1.22141
6.13497	-12.19577	1.91747	-0.25895	-1.47256	1.09287	-0.00194	14.66829	0.09602	-0.00358	1.22643
6.28141	-12.32386	1.92791	-0.25636	-1.46882	1.08996	-0.00193	14.61315	0.09658	-0.00362	1.23169
6.42674	-12.43387	1.93619	-0.25243	-1.46780	1.08853	-0.00192	14.60069	0.09715	-0.00366	1.23697
6.57895	-12.56475	1.94803	-0.24934	-1.46506	1.08621	-0.00191	14.55033	0.09785	-0.00369	1.24253
6.73401	-12.71342	1.96247	-0.24759	-1.45964	1.08244	-0.00189	14.45207	0.09856	-0.00372	1.24820
6.89180	-12.83714	1.97228	-0.24445	-1.45648	1.07982	-0.00188	14.40161	0.09912	-0.00374	1.25390
7.05716	-12.94808	1.98035	-0.23964	-1.45620	1.07873	-0.00188	14.39614	0.09973	-0.00375	1.25979
7.22022	-13.07518	1.99182	-0.23595	-1.45410	1.07674	-0.00187	14.35064	0.10044	-0.00376	1.26542
7.39098	-13.22936	2.00735	-0.23374	-1.44889	1.07305	-0.00185	14.24676	0.10124	-0.00377	1.27103
7.56430	-13.36758	2.01945	-0.23119	-1.44418	1.06955	-0.00184	14.16145	0.10187	-0.00377	1.27628
7.73994	-13.46552	2.02536	-0.22591	-1.44467	1.06886	-0.00183	14.17014	0.10238	-0.00376	1.28108
7.92393	-13.58431	2.03510	-0.22100	-1.44409	1.06759	-0.00183	14.14879	0.10307	-0.00375	1.28556
8.11030	-13.72300	2.04842	-0.21721	-1.44142	1.06523	-0.00181	14.08433	0.10387	-0.00374	1.28962
8.29876	-13.88701	2.06559	-0.21534	-1.43509	1.06086	-0.00180	13.95338	0.10474	-0.00373	1.29331
8.49618	-14.01411	2.07553	-0.21191	-1.43170	1.05799	-0.00179	13.89006	0.10533	-0.00371	1.29676
8.69565	-14.10083	2.07944	-0.20563	-1.43367	1.05803	-0.00178	13.92193	0.10579	-0.00369	1.29991
8.90472	-14.21986	2.08915	-0.20026	-1.43345	1.05689	-0.00177	13.90200	0.10650	-0.00365	1.30302
9.11577	-14.35229	2.10139	-0.19563	-1.43187	1.05503	-0.00176	13.85313	0.10729	-0.00362	1.30606
9.32836	-14.52110	2.11987	-0.19313	-1.42625	1.05100	-0.00175	13.72366	0.10828	-0.00358	1.30919
9.54198	-14.67057	2.13412	-0.19110	-1.42037	1.04678	-0.00174	13.60492	0.10904	-0.00355	1.31248
9.76563	-14.74460	2.13538	-0.18498	-1.42247	1.04684	-0.00173	13.64550	0.10933	-0.00351	1.31613
10.00000	-14.83370	2.13983	-0.17812	-1.42500	1.04711	-0.00173	13.68014	0.10983	-0.00346	1.32038

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Atkinson and Boore (1995) model
Median stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 61 - 152 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-4.21178	2.18758	-0.01241	-2.12302	1.54170	-0.00184	2.87396	0.39342	-0.02263	0.40356
PGV	1.94356	1.60705	-0.09764	-2.21797	1.39058	-0.00224	2.62000	0.46067	-0.02622	0.43619
PGA	0.59121	1.58355	-0.01998	-2.53008	1.03506	-0.00219	2.70404	0.55830	-0.02694	0.73330
0.01000	0.99343	1.59518	-0.02003	-2.60821	1.02744	-0.00208	3.05595	0.54677	-0.01904	0.73101
0.01024	0.97880	1.59715	-0.01936	-2.60631	1.02174	-0.00208	3.03764	0.54835	-0.01903	0.73148
0.01048	0.96817	1.59908	-0.01872	-2.60511	1.01632	-0.00207	3.02267	0.54978	-0.01902	0.73194
0.01072	0.96186	1.60096	-0.01810	-2.60468	1.01113	-0.00206	3.01128	0.55104	-0.01902	0.73237
0.01097	0.96024	1.60283	-0.01750	-2.60510	1.00616	-0.00205	3.00378	0.55213	-0.01903	0.73281
0.01123	0.96355	1.60469	-0.01692	-2.60641	1.00138	-0.00204	3.00035	0.55305	-0.01904	0.73325
0.01150	0.97205	1.60657	-0.01635	-2.60867	0.99676	-0.00203	3.00114	0.55378	-0.01907	0.73371
0.01177	0.98622	1.60847	-0.01579	-2.61197	0.99228	-0.00202	3.00655	0.55433	-0.01911	0.73419
0.01205	1.00670	1.61042	-0.01524	-2.61644	0.98793	-0.00201	3.01709	0.55468	-0.01916	0.73471
0.01233	1.03360	1.61242	-0.01469	-2.62211	0.98366	-0.00199	3.03282	0.55483	-0.01922	0.73529
0.01262	1.06697	1.61450	-0.01414	-2.62896	0.97942	-0.00198	3.05375	0.55480	-0.01930	0.73594
0.01292	1.10722	1.61666	-0.01359	-2.63709	0.97520	-0.00196	3.08019	0.55457	-0.01939	0.73667
0.01322	1.15519	1.61893	-0.01303	-2.64667	0.97098	-0.00194	3.11284	0.55414	-0.01951	0.73752
0.01353	1.21201	1.62133	-0.01246	-2.65789	0.96669	-0.00191	3.15269	0.55347	-0.01965	0.73850
0.01385	1.27847	1.62388	-0.01188	-2.67090	0.96230	-0.00189	3.20045	0.55257	-0.01980	0.73962
0.01417	1.35519	1.62660	-0.01128	-2.68581	0.95776	-0.00186	3.25669	0.55142	-0.01998	0.74091
0.01451	1.44374	1.62951	-0.01067	-2.70292	0.95309	-0.00183	3.32297	0.55001	-0.02019	0.74240
0.01485	1.54515	1.63265	-0.01004	-2.72240	0.94820	-0.00179	3.40038	0.54830	-0.02043	0.74413
0.01520	1.65945	1.63600	-0.00939	-2.74422	0.94288	-0.00176	3.48907	0.54635	-0.02069	0.74612
0.01556	1.78614	1.63958	-0.00872	-2.76826	0.93701	-0.00171	3.58863	0.54419	-0.02099	0.74842
0.01592	1.92512	1.64341	-0.00805	-2.79451	0.93064	-0.00167	3.69901	0.54185	-0.02133	0.75108
0.01630	2.07623	1.64748	-0.00736	-2.82294	0.92370	-0.00162	3.82007	0.53937	-0.02172	0.75411
0.01668	2.23693	1.65181	-0.00665	-2.85306	0.91594	-0.00156	3.94932	0.53686	-0.02214	0.75752
0.01707	2.40191	1.65634	-0.00589	-2.88385	0.90725	-0.00151	4.08170	0.53448	-0.02260	0.76125
0.01748	2.56850	1.66104	-0.00508	-2.91477	0.89761	-0.00145	4.21491	0.53230	-0.02309	0.76528
0.01789	2.73916	1.66589	-0.00426	-2.94622	0.88711	-0.00139	4.35172	0.53022	-0.02361	0.76958
0.01831	2.91072	1.67087	-0.00342	-2.97764	0.87583	-0.00134	4.48876	0.52834	-0.02418	0.77423
0.01874	3.07411	1.67597	-0.00250	-3.00741	0.86371	-0.00128	4.61600	0.52689	-0.02480	0.77931
0.01918	3.22781	1.68122	-0.00148	-3.03528	0.85060	-0.00123	4.73147	0.52592	-0.02546	0.78473
0.01963	3.37192	1.68658	-0.00039	-3.06129	0.83661	-0.00118	4.83540	0.52537	-0.02614	0.79027
0.02009	3.50574	1.69196	0.00070	-3.08526	0.82194	-0.00113	4.92774	0.52519	-0.02679	0.79567
0.02057	3.63056	1.69733	0.00176	-3.10733	0.80669	-0.00108	5.01055	0.52532	-0.02742	0.80093
0.02105	3.74950	1.70276	0.00285	-3.12817	0.79132	-0.00104	5.08658	0.52567	-0.02804	0.80614
0.02154	3.85454	1.70826	0.00404	-3.14651	0.77606	-0.00100	5.14644	0.52643	-0.02860	0.81103
0.02205	3.93267	1.71364	0.00533	-3.15995	0.76071	-0.00097	5.17697	0.52786	-0.02909	0.81543
0.02257	3.98661	1.71876	0.00666	-3.16878	0.74476	-0.00095	5.18266	0.52986	-0.02951	0.81941
0.02310	4.02232	1.72378	0.00796	-3.17410	0.72835	-0.00093	5.17063	0.53228	-0.02990	0.82318
0.02364	4.03073	1.72887	0.00932	-3.17455	0.71219	-0.00092	5.13076	0.53536	-0.03028	0.82691
0.02420	4.00863	1.73396	0.01075	-3.16963	0.69675	-0.00092	5.06063	0.53913	-0.03070	0.83089
0.02477	3.95651	1.73880	0.01226	-3.15936	0.68218	-0.00093	4.96222	0.54352	-0.03115	0.83520
0.02535	3.88186	1.74332	0.01378	-3.14507	0.66893	-0.00095	4.84526	0.54830	-0.03165	0.83981
0.02595	3.80094	1.74766	0.01523	-3.12962	0.65681	-0.00097	4.72750	0.55308	-0.03212	0.84433
0.02656	3.71168	1.75207	0.01667	-3.11267	0.64445	-0.00099	4.60535	0.55807	-0.03248	0.84820
0.02719	3.60668	1.75663	0.01824	-3.09294	0.63093	-0.00102	4.47034	0.56359	-0.03276	0.85158
0.02783	3.47993	1.76144	0.02007	-3.06956	0.61682	-0.00105	4.31628	0.56985	-0.03301	0.85484
0.02848	3.33675	1.76644	0.02221	-3.04375	0.60349	-0.00108	4.14833	0.57665	-0.03322	0.85798
0.02915	3.20047	1.77136	0.02437	-3.01939	0.59122	-0.00112	3.99013	0.58327	-0.03341	0.86098
0.02984	3.08621	1.77598	0.02623	-2.99869	0.57949	-0.00114	3.85717	0.58921	-0.03355	0.86367
0.03054	2.97111	1.78018	0.02781	-2.97755	0.56782	-0.00117	3.72782	0.59512	-0.03352	0.86521
0.03126	2.83193	1.78399	0.02932	-2.95199	0.55569	-0.00120	3.58036	0.60176	-0.03329	0.86534
0.03199	2.66694	1.78765	0.03094	-2.92183	0.54324	-0.00124	3.41461	0.60928	-0.03296	0.86489
0.03275	2.47714	1.79135	0.03283	-2.88740	0.53085	-0.00128	3.23410	0.61770	-0.03266	0.86467
0.03352	2.27608	1.79518	0.03500	-2.85108	0.51870	-0.00132	3.05265	0.62657	-0.03243	0.86496
0.03430	2.08509	1.79898	0.03717	-2.81650	0.50701	-0.00137	2.88744	0.63517	-0.03219	0.86522
0.03511	1.91965	1.80245	0.03904	-2.78612	0.49634	-0.00141	2.74862	0.64289	-0.03192	0.86529
0.03594	1.77596	1.80544	0.04056	-2.75894	0.48631	-0.00145	2.63167	0.64982	-0.03167	0.86555
0.03678	1.63060	1.80808	0.04188	-2.73086	0.47548	-0.00148	2.51831	0.65686	-0.03141	0.86580
0.03765	1.46912	1.81055	0.04321	-2.69988	0.46508	-0.00153	2.39744	0.66451	-0.03109	0.86581
0.03854	1.31420	1.81270	0.04455	-2.67032	0.45835	-0.00157	2.28492	0.67174	-0.03076	0.86585
0.03944	1.18400	1.81451	0.04579	-2.64524	0.45499	-0.00162	2.19184	0.67790	-0.03045	0.86600
0.04037	1.06501	1.81624	0.04701	-2.62223	0.45282	-0.00167	2.10840	0.68362	-0.03009	0.86587
0.04132	0.94882	1.81845	0.04828	-2.60013	0.45106	-0.00171	2.03076	0.68919	-0.02952	0.86428
0.04229	0.83427	1.82127	0.04941	-2.57877	0.44898	-0.00176	1.95810	0.69469	-0.02870	0.86082
0.04329	0.71255	1.82348	0.05031	-2.55589	0.44619	-0.00180	1.88263	0.70047	-0.02785	0.85690
0.04431	0.58119	1.82395	0.05103	-2.53018	0.44311	-0.00184	1.80225	0.70656	-0.02719	0.85412
0.04535	0.43549	1.82277	0.05188	-2.50076	0.43985	-0.00189	1.71573	0.71316	-0.02680	0.85307

0.04642	0.27054	1.82097	0.05311	-2.46759	0.43728	-0.00194	1.62242	0.72051	-0.02665	0.85353
0.04751	0.10469	1.81922	0.05457	-2.43436	0.43622	-0.00199	1.53329	0.72786	-0.02653	0.85416
0.04863	-0.04078	1.81737	0.05587	-2.40472	0.43735	-0.00205	1.45827	0.73425	-0.02631	0.85400
0.04977	-0.16137	1.81567	0.05675	-2.37975	0.44083	-0.00210	1.39812	0.73947	-0.02592	0.85261
0.05094	-0.26451	1.81421	0.05714	-2.35794	0.44410	-0.00215	1.34760	0.74402	-0.02536	0.85005
0.05214	-0.35900	1.81241	0.05706	-2.33721	0.44543	-0.00219	1.30102	0.74844	-0.02487	0.84806
0.05337	-0.45148	1.80998	0.05660	-2.31621	0.44565	-0.00223	1.25512	0.75292	-0.02453	0.84722
0.05462	-0.55458	1.80694	0.05590	-2.29288	0.44507	-0.00227	1.20443	0.75803	-0.02413	0.84601
0.05591	-0.65868	1.80356	0.05513	-2.26923	0.44590	-0.00231	1.15537	0.76303	-0.02359	0.84395
0.05722	-0.74160	1.80056	0.05440	-2.24982	0.45096	-0.00235	1.11962	0.76650	-0.02296	0.84133
0.05857	-0.80650	1.79750	0.05383	-2.23355	0.45837	-0.00240	1.09423	0.76875	-0.02226	0.83838
0.05995	-0.87674	1.79344	0.05341	-2.21551	0.46365	-0.00244	1.06602	0.77142	-0.02155	0.83546
0.06136	-0.96341	1.78889	0.05305	-2.19436	0.46626	-0.00248	1.03002	0.77520	-0.02077	0.83205
0.06280	-1.04736	1.78454	0.05255	-2.17392	0.47003	-0.00252	0.99666	0.77872	-0.01983	0.82750
0.06428	-1.09779	1.78002	0.05147	-2.15907	0.47760	-0.00256	0.97892	0.78009	-0.01872	0.82162
0.06579	-1.12533	1.77493	0.04981	-2.14772	0.48661	-0.00261	0.96977	0.78023	-0.01749	0.81486
0.06734	-1.17090	1.76895	0.04805	-2.13272	0.49230	-0.00264	0.94935	0.78190	-0.01634	0.80858
0.06893	-1.26184	1.76189	0.04677	-2.10923	0.49329	-0.00267	0.90717	0.78673	-0.01544	0.80391
0.07055	-1.37086	1.75326	0.04569	-2.08141	0.49436	-0.00270	0.85832	0.79259	-0.01476	0.80079
0.07221	-1.45939	1.74338	0.04412	-2.05616	0.49985	-0.00274	0.82027	0.79671	-0.01412	0.79787
0.07391	-1.52113	1.73309	0.04188	-2.03527	0.50915	-0.00279	0.79495	0.79873	-0.01342	0.79453
0.07565	-1.57267	1.72277	0.03942	-2.01600	0.51965	-0.00283	0.77541	0.79981	-0.01269	0.79082
0.07743	-1.62844	1.71224	0.03714	-1.99551	0.52895	-0.00288	0.75534	0.80111	-0.01202	0.78723
0.07925	-1.68160	1.70161	0.03471	-1.97532	0.53513	-0.00292	0.73529	0.80263	-0.01140	0.78378
0.08111	-1.73250	1.69263	0.03213	-1.95698	0.53781	-0.00294	0.71535	0.80459	-0.01071	0.77963
0.08302	-1.78332	1.68650	0.02963	-1.94114	0.54108	-0.00296	0.69679	0.80672	-0.00983	0.77404
0.08498	-1.83093	1.68217	0.02739	-1.92752	0.54932	-0.00300	0.68170	0.80827	-0.00881	0.76743
0.08697	-1.86897	1.67706	0.02517	-1.91496	0.56234	-0.00304	0.67078	0.80874	-0.00791	0.76174
0.08902	-1.89594	1.67019	0.02278	-1.90294	0.57731	-0.00309	0.66286	0.80833	-0.00731	0.75833
0.09112	-1.91627	1.66264	0.02018	-1.89188	0.59210	-0.00314	0.65611	0.80753	-0.00684	0.75598
0.09326	-1.93677	1.65512	0.01741	-1.88148	0.60614	-0.00318	0.64870	0.80674	-0.00619	0.75278
0.09545	-1.95909	1.64726	0.01450	-1.87113	0.62039	-0.00321	0.64058	0.80584	-0.00530	0.74829
0.09770	-1.98390	1.63952	0.01155	-1.86088	0.63535	-0.00325	0.63242	0.80482	-0.00416	0.74261
0.10000	-2.00879	1.63198	0.00847	-1.85080	0.64995	-0.00328	0.62501	0.80368	-0.00303	0.73734
0.10235	-2.03980	1.62405	0.00529	-1.83875	0.66258	-0.00332	0.61566	0.80310	-0.00224	0.73456
0.10476	-2.07866	1.61554	0.00206	-1.82405	0.67207	-0.00335	0.60353	0.80337	-0.00171	0.73354
0.10723	-2.11800	1.60701	-0.00115	-1.80875	0.67788	-0.00337	0.59149	0.80393	-0.00114	0.73202
0.10975	-2.14862	1.59867	-0.00435	-1.79505	0.68119	-0.00338	0.58294	0.80392	-0.00049	0.72977
0.11233	-2.17338	1.59003	-0.00753	-1.78237	0.68404	-0.00338	0.57658	0.80336	0.00002	0.72819
0.11498	-2.20000	1.58023	-0.01082	-1.76865	0.68775	-0.00339	0.56882	0.80281	0.00027	0.72825
0.11768	-2.22899	1.56931	-0.01428	-1.75386	0.69340	-0.00340	0.55907	0.80238	0.00040	0.72912
0.12045	-2.25538	1.55893	-0.01781	-1.74034	0.70182	-0.00341	0.55022	0.80164	0.00068	0.72883
0.12328	-2.27706	1.55108	-0.02115	-1.73002	0.71150	-0.00342	0.54491	0.80038	0.00132	0.72578
0.12619	-2.30280	1.54626	-0.02401	-1.72151	0.71900	-0.00343	0.54082	0.79937	0.00228	0.72027
0.12916	-2.33780	1.54276	-0.02661	-1.71226	0.72239	-0.00344	0.53492	0.79915	0.00328	0.71424
0.13219	-2.38008	1.53804	-0.02934	-1.70047	0.72198	-0.00343	0.52579	0.79966	0.00404	0.70965
0.13531	-2.42522	1.53087	-0.03233	-1.68594	0.72014	-0.00342	0.51404	0.80049	0.00435	0.70779
0.13849	-2.46479	1.52168	-0.03570	-1.67085	0.72014	-0.00342	0.50295	0.80071	0.00420	0.70848
0.14175	-2.49063	1.51220	-0.03941	-1.65865	0.72479	-0.00342	0.49653	0.79934	0.00382	0.71028
0.14508	-2.50649	1.50410	-0.04309	-1.65018	0.73502	-0.00343	0.49510	0.79650	0.00355	0.71094
0.14850	-2.52331	1.49721	-0.04638	-1.64284	0.74923	-0.00345	0.49547	0.79316	0.00368	0.70874
0.15199	-2.54181	1.49066	-0.04940	-1.63539	0.76540	-0.00348	0.49689	0.78952	0.00429	0.70338
0.15557	-2.55566	1.48489	-0.05233	-1.62945	0.78183	-0.00352	0.50126	0.78525	0.00534	0.69524
0.15923	-2.55733	1.48095	-0.05546	-1.62775	0.79743	-0.00354	0.51135	0.77977	0.00666	0.68557
0.16298	-2.55027	1.47895	-0.05894	-1.63013	0.81093	-0.00355	0.52540	0.77357	0.00793	0.67677
0.16681	-2.53653	1.47769	-0.06296	-1.63529	0.82254	-0.00354	0.54162	0.76688	0.00876	0.67125
0.17074	-2.52095	1.47628	-0.06744	-1.64134	0.83327	-0.00352	0.55804	0.76008	0.00900	0.66992
0.17475	-2.51186	1.47428	-0.07207	-1.64586	0.84399	-0.00350	0.57186	0.75379	0.00884	0.67140
0.17887	-2.51799	1.47136	-0.07659	-1.64644	0.85477	-0.00348	0.57997	0.74869	0.00870	0.67272
0.18307	-2.53918	1.46743	-0.08079	-1.64268	0.86504	-0.00348	0.58296	0.74469	0.00887	0.67174
0.18738	-2.56810	1.46253	-0.08458	-1.63574	0.87417	-0.00348	0.58432	0.74107	0.00927	0.66889
0.19179	-2.59454	1.45706	-0.08796	-1.62787	0.88323	-0.00350	0.58865	0.73691	0.00958	0.66639
0.19631	-2.61103	1.45183	-0.09107	-1.62163	0.89386	-0.00352	0.59884	0.73164	0.00958	0.66602
0.20092	-2.61402	1.44794	-0.09404	-1.61938	0.90572	-0.00353	0.61536	0.72534	0.00928	0.66774
0.20565	-2.60851	1.44607	-0.09697	-1.62148	0.91583	-0.00352	0.63477	0.71890	0.00899	0.66961
0.21049	-2.60816	1.44585	-0.09976	-1.62515	0.92125	-0.00349	0.65015	0.71365	0.00900	0.66975
0.21544	-2.62315	1.44643	-0.10228	-1.62746	0.92291	-0.00345	0.65701	0.71019	0.00931	0.66804
0.22051	-2.65364	1.44736	-0.10451	-1.62760	0.92456	-0.00341	0.65661	0.70806	0.00985	0.66491
0.22570	-2.69338	1.44855	-0.10658	-1.62629	0.92858	-0.00338	0.65316	0.70642	0.01058	0.66062
0.23101	-2.73701	1.44956	-0.10874	-1.62365	0.93431	-0.00337	0.64972	0.70469	0.01130	0.65630
0.23645	-2.78159	1.44952	-0.11122	-1.61907	0.93956	-0.00337	0.64783	0.70256	0.01171	0.65414
0.24201	-2.82791	1.44832	-0.11410	-1.61220	0.94276	-0.00336	0.64728	0.70008	0.01167	0.65524
0.24771	-2.88014	1.44670	-0.11731	-1.60319	0.94312	-0.00336	0.64655	0.69767	0.01130	0.65877
0.25354	-2.93804	1.44525	-0.12074	-1.59285	0.94002	-0.00335	0.64562	0.69541	0.01076	0.66351
0.25950	-2.99847	1.44384	-0.12429	-1.58189	0.93330	-0.00333	0.64488	0.69322	0.01015	0.66867
0.26561	-3.05805	1.44213	-0.12788	-1.57088	0.92397	-0.00331	0.64440	0.69096	0.00948	0.67390
0.27186	-3.11176	1.44025	-0.13145	-1.56119	0.91474	-0.00327	0.64572	0.68829	0.00881	0.67891
0.27826	-3.15590	1.43899	-0.13489	-1.55447	0.90920	-0.00324	0.65097	0.68484	0.00820	0.68325
0.28480	-3.19178	1.43901	-0.13806	-1.55110	0.90935	-0.00322	0.65993	0.68079	0.00765	0.68691
0.29150	-3.22850	1.44006	-0.14083	-1.54902	0.91384	-0.00321	0.66809	0.67701	0.00713	0.69020
0.29836	-3.27063	1.44168	-0.14326	-1.54690	0.92006	-0.00320	0.67297	0.67389	0.00672	0.69281

0.30539	-3.31244	1.44372	-0.14568	-1.54564	0.92685	-0.00319	0.67865	0.67061	0.00652	0.69414
0.31257	-3.34443	1.44598	-0.14838	-1.54673	0.93479	-0.00318	0.69103	0.66606	0.00651	0.69449
0.31993	-3.35859	1.44824	-0.15149	-1.55144	0.94528	-0.00317	0.71555	0.65925	0.00647	0.69526
0.32745	-3.34970	1.45067	-0.15495	-1.56091	0.95932	-0.00316	0.75610	0.64982	0.00625	0.69745
0.33517	-3.31810	1.45377	-0.15864	-1.57575	0.97693	-0.00315	0.81410	0.63806	0.00588	0.70084
0.34304	-3.26660	1.45801	-0.16239	-1.59604	0.99745	-0.00313	0.88934	0.62461	0.00541	0.70505
0.35112	-3.19738	1.46358	-0.16614	-1.62172	1.02014	-0.00311	0.98166	0.61006	0.00481	0.71025
0.35938	-3.11563	1.47032	-0.16980	-1.65155	1.04364	-0.00308	1.08878	0.59513	0.00406	0.71644
0.36784	-3.02873	1.47767	-0.17334	-1.68338	1.06674	-0.00304	1.20634	0.58045	0.00314	0.72366
0.37649	-2.94874	1.48483	-0.17667	-1.71388	1.08878	-0.00301	1.32545	0.56678	0.00203	0.73188
0.38536	-2.88992	1.49128	-0.17967	-1.73970	1.10904	-0.00298	1.43461	0.55478	0.00074	0.74103
0.39442	-2.86152	1.49680	-0.18232	-1.75878	1.12578	-0.00296	1.52388	0.54486	-0.00069	0.75088
0.40370	-2.86579	1.50131	-0.18469	-1.77065	1.13722	-0.00294	1.58977	0.53692	-0.00214	0.76080
0.41321	-2.90006	1.50463	-0.18688	-1.77571	1.14208	-0.00292	1.63410	0.53045	-0.00350	0.77010
0.42292	-2.96149	1.50642	-0.18897	-1.77423	1.13983	-0.00288	1.65807	0.52516	-0.00469	0.77844
0.43288	-3.04930	1.50671	-0.19095	-1.76640	1.13099	-0.00283	1.66159	0.52094	-0.00571	0.78565
0.44307	-3.16330	1.50605	-0.19267	-1.75269	1.11690	-0.00278	1.64485	0.51783	-0.00650	0.79161
0.45349	-3.30101	1.50503	-0.19408	-1.73400	1.09913	-0.00272	1.60966	0.51588	-0.00708	0.79657
0.46417	-3.45856	1.50404	-0.19523	-1.71137	1.07891	-0.00267	1.55827	0.51514	-0.00746	0.80070
0.47508	-3.63268	1.50351	-0.19620	-1.68581	1.05726	-0.00263	1.49398	0.51554	-0.00753	0.80324
0.48626	-3.81914	1.50361	-0.19708	-1.65833	1.03514	-0.00258	1.42137	0.51683	-0.00716	0.80335
0.49771	-4.00549	1.50416	-0.19811	-1.63114	1.01418	-0.00255	1.35150	0.51819	-0.00639	0.80119
0.50942	-4.17837	1.50495	-0.19945	-1.60662	0.99624	-0.00252	1.29580	0.51860	-0.00537	0.79766
0.52140	-4.33092	1.50602	-0.20106	-1.58615	0.98267	-0.00249	1.26020	0.51733	-0.00432	0.79403
0.53367	-4.46190	1.50739	-0.20291	-1.57007	0.97356	-0.00247	1.24488	0.51428	-0.00346	0.79150
0.54624	-4.57091	1.50897	-0.20499	-1.55848	0.96823	-0.00246	1.24861	0.50959	-0.00289	0.79070
0.55910	-4.65939	1.51079	-0.20726	-1.55119	0.96593	-0.00244	1.27047	0.50342	-0.00259	0.79142
0.57225	-4.73043	1.51299	-0.20959	-1.54770	0.96654	-0.00243	1.31034	0.49587	-0.00246	0.79297
0.58569	-4.78572	1.51553	-0.21196	-1.54756	0.97030	-0.00241	1.36919	0.48697	-0.00239	0.79476
0.59948	-4.82617	1.51812	-0.21445	-1.55015	0.97700	-0.00240	1.44782	0.47688	-0.00233	0.79656
0.61357	-4.85250	1.52048	-0.21706	-1.55485	0.98589	-0.00240	1.54589	0.46593	-0.00228	0.79853
0.62802	-4.86615	1.52271	-0.21970	-1.56143	0.99648	-0.00239	1.66485	0.45427	-0.00228	0.80105
0.64280	-4.86758	1.52501	-0.22223	-1.56994	1.00858	-0.00239	1.80597	0.44209	-0.00238	0.80457
0.65794	-4.85438	1.52746	-0.22460	-1.58101	1.02232	-0.00238	1.97272	0.42953	-0.00267	0.80969
0.67340	-4.82370	1.53000	-0.22683	-1.59516	1.03779	-0.00237	2.16695	0.41689	-0.00321	0.81685
0.68927	-4.77556	1.53279	-0.22893	-1.61258	1.05496	-0.00236	2.38909	0.40446	-0.00398	0.82604
0.70547	-4.71312	1.53619	-0.23083	-1.63300	1.07340	-0.00235	2.63471	0.39270	-0.00488	0.83636
0.72207	-4.63973	1.54059	-0.23255	-1.65619	1.09279	-0.00233	2.90045	0.38181	-0.00576	0.84652
0.73910	-4.55872	1.54595	-0.23416	-1.68145	1.11276	-0.00231	3.17993	0.37200	-0.00646	0.85526
0.75649	-4.47348	1.55187	-0.23582	-1.70766	1.13281	-0.00229	3.46426	0.36340	-0.00693	0.86188
0.77429	-4.38422	1.55805	-0.23763	-1.73447	1.15283	-0.00227	3.75165	0.35590	-0.00718	0.86621
0.79246	-4.29125	1.56446	-0.23955	-1.76178	1.17254	-0.00225	4.04189	0.34928	-0.00726	0.86834
0.81116	-4.19350	1.57127	-0.24155	-1.79008	1.19196	-0.00222	4.34085	0.34327	-0.00725	0.86878
0.83022	-4.09113	1.57845	-0.24354	-1.81933	1.21101	-0.00220	4.64996	0.33766	-0.00719	0.86797
0.84976	-3.98475	1.58595	-0.24552	-1.84950	1.23005	-0.00218	4.96893	0.33241	-0.00705	0.86593
0.86972	-3.87642	1.59371	-0.24756	-1.88030	1.24934	-0.00215	5.28950	0.32763	-0.00672	0.86231
0.89023	-3.77418	1.60179	-0.24965	-1.91035	1.26874	-0.00214	5.59215	0.32362	-0.00614	0.85699
0.91116	-3.69325	1.61007	-0.25171	-1.93669	1.28723	-0.00213	5.84348	0.32076	-0.00533	0.85063
0.93257	-3.64685	1.61839	-0.25360	-1.95663	1.30386	-0.00213	6.02043	0.31915	-0.00449	0.84443
0.95456	-3.64554	1.62646	-0.25525	-1.96789	1.31761	-0.00215	6.10754	0.31876	-0.00378	0.83957
0.97704	-3.69905	1.63388	-0.25662	-1.96829	1.32704	-0.00218	6.08907	0.31965	-0.00327	0.83652
1.00000	-3.81095	1.64037	-0.25780	-1.95696	1.33090	-0.00222	5.96116	0.32185	-0.00288	0.83492
1.02354	-3.98112	1.64578	-0.25887	-1.93387	1.32804	-0.00227	5.72851	0.32536	-0.00250	0.83403
1.04767	-4.20227	1.65003	-0.25995	-1.90044	1.31784	-0.00231	5.41150	0.33003	-0.00207	0.83347
1.07227	-4.45932	1.65313	-0.26104	-1.85961	1.30057	-0.00235	5.04610	0.33542	-0.00161	0.83342
1.09745	-4.73387	1.65519	-0.26216	-1.81518	1.27722	-0.00238	4.67469	0.34079	-0.00125	0.83459
1.12334	-5.01076	1.65629	-0.26330	-1.77022	1.24943	-0.00239	4.33140	0.34535	-0.00110	0.83777
1.14982	-5.27804	1.65661	-0.26444	-1.72711	1.21949	-0.00238	4.03803	0.34844	-0.00122	0.84324
1.17675	-5.52636	1.65641	-0.26563	-1.68786	1.18954	-0.00237	3.80641	0.34962	-0.00156	0.85058
1.20453	-5.75821	1.65589	-0.26696	-1.65227	1.16019	-0.00235	3.63055	0.34882	-0.00203	0.85920
1.23289	-5.97297	1.65511	-0.26847	-1.62035	1.13230	-0.00232	3.50494	0.34612	-0.00255	0.86825
1.26183	-6.17022	1.65414	-0.27017	-1.59224	1.10649	-0.00229	3.42703	0.34157	-0.00304	0.87712
1.29149	-6.34790	1.65309	-0.27202	-1.56854	1.08335	-0.00226	3.40032	0.33504	-0.00344	0.88537
1.32188	-6.50408	1.65213	-0.27393	-1.54987	1.06356	-0.00223	3.42904	0.32652	-0.00368	0.89256
1.35300	-6.63624	1.65148	-0.27579	-1.53698	1.04795	-0.00220	3.52036	0.31598	-0.00374	0.89837
1.38485	-6.74376	1.65125	-0.27746	-1.53010	1.03698	-0.00217	3.68058	0.30355	-0.00361	0.90273
1.41743	-6.82856	1.65140	-0.27885	-1.52877	1.03079	-0.00214	3.91301	0.28949	-0.00332	0.90584
1.45075	-6.89491	1.65183	-0.27989	-1.53189	1.02917	-0.00211	4.21617	0.27423	-0.00290	0.90783
1.48500	-6.94593	1.65245	-0.28062	-1.53868	1.03189	-0.00209	4.59273	0.25807	-0.00232	0.90857
1.51999	-6.98047	1.65314	-0.28111	-1.54902	1.03899	-0.00207	5.04812	0.24138	-0.00153	0.90777
1.55569	-6.99551	1.65378	-0.28144	-1.56328	1.05054	-0.00206	5.59413	0.22440	-0.00053	0.90546
1.59236	-6.99054	1.65421	-0.28170	-1.58139	1.06623	-0.00205	6.23974	0.20736	0.00062	0.90208
1.62973	-6.96953	1.65426	-0.28190	-1.60216	1.08482	-0.00205	6.97116	0.19084	0.00183	0.89826
1.66806	-6.93943	1.65384	-0.28209	-1.62406	1.10492	-0.00204	7.77088	0.17515	0.00304	0.89453
1.70736	-6.90936	1.65294	-0.28225	-1.64513	1.12490	-0.00204	8.60572	0.16065	0.00417	0.89139
1.74764	-6.88725	1.65163	-0.28241	-1.66375	1.14340	-0.00204	9.44016	0.14755	0.00518	0.88922
1.78859	-6.87897	1.65012	-0.28257	-1.67881	1.15936	-0.00204	10.23494	0.13601	0.00604	0.88822
1.83083	-6.89045	1.64861	-0.28275	-1.68952	1.17212	-0.00204	10.96588	0.12593	0.00677	0.88828
1.87371	-6.92313	1.64734	-0.28293	-1.69563	1.18126	-0.00205	11.60271	0.11739	0.00741	0.88914
1.91791	-6.97675	1.64646	-0.28310	-1.69758	1.18703	-0.00205	12.14831	0.11012	0.00799	0.89048
1.96309	-7.04708	1.64605	-0.28326	-1.69621	1.18989	-0.00205	12.60583	0.10401	0.00851	0.89219

2.00924	-7.12854	1.64610	-0.28343	-1.69267	1.19060	-0.00205	12.99299	0.09887	0.00894	0.89434
2.05634	-7.21699	1.64658	-0.28361	-1.68776	1.18975	-0.00205	13.32375	0.09453	0.00927	0.89700
2.10482	-7.31061	1.64741	-0.28382	-1.68191	1.18772	-0.00205	13.60918	0.09087	0.00949	0.90014
2.15424	-7.40682	1.64852	-0.28408	-1.67548	1.18483	-0.00205	13.85165	0.08784	0.00960	0.90355
2.20507	-7.50599	1.64983	-0.28444	-1.66845	1.18119	-0.00205	14.05390	0.08535	0.00961	0.90711
2.25683	-7.60659	1.65128	-0.28489	-1.66096	1.17696	-0.00204	14.21533	0.08338	0.00954	0.91080
2.31000	-7.70897	1.65284	-0.28544	-1.65306	1.17224	-0.00204	14.34001	0.08187	0.00940	0.91466
2.36463	-7.81242	1.65450	-0.28610	-1.64490	1.16716	-0.00204	14.43193	0.08076	0.00919	0.91874
2.42014	-7.91440	1.65628	-0.28685	-1.63691	1.16200	-0.00203	14.49841	0.08002	0.00893	0.92303
2.47709	-8.01512	1.65822	-0.28767	-1.62924	1.15686	-0.00203	14.54611	0.07960	0.00862	0.92766
2.53550	-8.11431	1.66039	-0.28854	-1.62200	1.15184	-0.00202	14.57925	0.07945	0.00828	0.93275
2.59471	-8.21121	1.66280	-0.28944	-1.61527	1.14699	-0.00202	14.59963	0.07954	0.00790	0.93833
2.65604	-8.30693	1.66553	-0.29035	-1.60917	1.14241	-0.00201	14.61499	0.07984	0.00748	0.94456
2.71887	-8.40149	1.66863	-0.29125	-1.60360	1.13807	-0.00200	14.62409	0.08030	0.00703	0.95141
2.78242	-8.49395	1.67207	-0.29212	-1.59862	1.13404	-0.00199	14.62865	0.08090	0.00655	0.95883
2.84819	-8.58657	1.67591	-0.29295	-1.59410	1.13023	-0.00199	14.63082	0.08161	0.00605	0.96704
2.91545	-8.67912	1.68018	-0.29374	-1.58996	1.12663	-0.00198	14.62955	0.08241	0.00553	0.97597
2.98329	-8.76964	1.68471	-0.29443	-1.58637	1.12334	-0.00197	14.62863	0.08327	0.00500	0.98535
3.05344	-8.86189	1.68971	-0.29509	-1.58294	1.12015	-0.00196	14.62475	0.08417	0.00446	0.99516
3.12598	-8.95485	1.69506	-0.29564	-1.57987	1.11715	-0.00195	14.62172	0.08511	0.00392	1.00518
3.19898	-9.04757	1.70065	-0.29613	-1.57688	1.11424	-0.00194	14.61550	0.08605	0.00340	1.01482
3.27439	-9.14148	1.70655	-0.29653	-1.57409	1.11143	-0.00192	14.60885	0.08701	0.00289	1.02404
3.35121	-9.23650	1.71266	-0.29686	-1.57123	1.10861	-0.00191	14.59862	0.08796	0.00241	1.03252
3.43053	-9.33275	1.71902	-0.29709	-1.56850	1.10585	-0.00190	14.58778	0.08892	0.00194	1.04060
3.51124	-9.43044	1.72554	-0.29729	-1.56555	1.10300	-0.00189	14.57189	0.08985	0.00151	1.04838
3.59324	-9.52777	1.73206	-0.29733	-1.56273	1.10019	-0.00188	14.55486	0.09079	0.00110	1.05618
3.67782	-9.62857	1.73892	-0.29741	-1.55950	1.09719	-0.00187	14.53072	0.09169	0.00073	1.06445
3.76506	-9.72837	1.74566	-0.29724	-1.55669	1.09437	-0.00186	14.51164	0.09261	0.00038	1.07355
3.85356	-9.83211	1.75285	-0.29723	-1.55316	1.09123	-0.00185	14.47892	0.09350	0.00005	1.08328
3.94477	-9.93340	1.75965	-0.29686	-1.55022	1.08832	-0.00183	14.45511	0.09439	-0.00024	1.09359
4.03714	-10.03848	1.76701	-0.29666	-1.54667	1.08515	-0.00182	14.41789	0.09528	-0.00051	1.10406
4.13223	-10.14339	1.77414	-0.29623	-1.54321	1.08199	-0.00181	14.38293	0.09613	-0.00075	1.11457
4.23012	-10.24863	1.78142	-0.29563	-1.54003	1.07896	-0.00180	14.34904	0.09702	-0.00098	1.12482
4.32900	-10.35908	1.78926	-0.29526	-1.53585	1.07548	-0.00179	14.29787	0.09787	-0.00118	1.13427
4.43066	-10.46339	1.79629	-0.29430	-1.53284	1.07253	-0.00178	14.26543	0.09871	-0.00137	1.14309
4.53515	-10.57556	1.80443	-0.29361	-1.52895	1.06917	-0.00177	14.21387	0.09958	-0.00154	1.15127
4.64253	-10.68966	1.81253	-0.29281	-1.52473	1.06565	-0.00176	14.15840	0.10041	-0.00170	1.15882
4.75059	-10.79517	1.81983	-0.29143	-1.52193	1.06285	-0.00175	14.12347	0.10125	-0.00185	1.16568
4.86145	-10.91306	1.82879	-0.29056	-1.51755	1.05929	-0.00173	14.05788	0.10212	-0.00199	1.17202
4.97760	-11.03057	1.83726	-0.28932	-1.51339	1.05580	-0.00172	13.99898	0.10295	-0.00212	1.17799
5.09424	-11.13910	1.84498	-0.28747	-1.51078	1.05313	-0.00171	13.96161	0.10379	-0.00225	1.18346
5.21376	-11.26316	1.85483	-0.28629	-1.50620	1.04950	-0.00170	13.88657	0.10468	-0.00237	1.18858
5.33618	-11.38400	1.86389	-0.28480	-1.50183	1.04597	-0.00169	13.81898	0.10549	-0.00247	1.19340
5.46150	-11.49302	1.87167	-0.28239	-1.49962	1.04356	-0.00168	13.78470	0.10631	-0.00258	1.19808
5.58971	-11.61873	1.88195	-0.28065	-1.49553	1.04022	-0.00167	13.71200	0.10722	-0.00268	1.20272
5.72082	-11.75040	1.89263	-0.27918	-1.49025	1.03626	-0.00166	13.62240	0.10807	-0.00277	1.20737
5.85823	-11.86229	1.90052	-0.27628	-1.48816	1.03394	-0.00165	13.58838	0.10886	-0.00286	1.21229
5.99520	-11.98186	1.91008	-0.27365	-1.48541	1.03133	-0.00163	13.53425	0.10975	-0.00294	1.21726
6.13497	-12.12150	1.92238	-0.27199	-1.47996	1.02734	-0.00162	13.43257	0.11069	-0.00302	1.22234
6.28141	-12.24790	1.93217	-0.26953	-1.47599	1.02407	-0.00161	13.36331	0.11149	-0.00309	1.22766
6.42674	-12.35291	1.93970	-0.26596	-1.47513	1.02251	-0.00160	13.34305	0.11225	-0.00315	1.23299
6.57895	-12.48171	1.95081	-0.26301	-1.47216	1.01983	-0.00159	13.27826	0.11319	-0.00321	1.23862
6.73401	-12.63199	1.96467	-0.26114	-1.46612	1.01553	-0.00158	13.16085	0.11418	-0.00326	1.24434
6.89180	-12.75328	1.97391	-0.25818	-1.46290	1.01272	-0.00157	13.10172	0.11493	-0.00330	1.25010
7.05716	-12.85791	1.98122	-0.25381	-1.46294	1.01166	-0.00156	13.09328	0.11568	-0.00334	1.25606
7.22022	-12.98218	1.99205	-0.25032	-1.46078	1.00948	-0.00154	13.03879	0.11657	-0.00338	1.26176
7.39098	-13.13799	2.00711	-0.24796	-1.45506	1.00536	-0.00153	12.91947	0.11764	-0.00340	1.26743
7.56430	-13.27618	2.01881	-0.24539	-1.45010	1.00163	-0.00152	12.82502	0.11848	-0.00342	1.27274
7.73994	-13.36656	2.02402	-0.24065	-1.45113	1.00118	-0.00151	12.83683	0.11905	-0.00344	1.27763
7.92393	-13.47992	2.03307	-0.23612	-1.45082	1.00001	-0.00150	12.81406	0.11985	-0.00346	1.28220
8.11030	-13.61680	2.04588	-0.23242	-1.44807	0.99752	-0.00149	12.74298	0.12082	-0.00347	1.28633
8.29876	-13.78440	2.06287	-0.23021	-1.44120	0.99276	-0.00148	12.59935	0.12197	-0.00347	1.29006
8.49618	-13.90944	2.07244	-0.22689	-1.43787	0.98990	-0.00147	12.53421	0.12269	-0.00347	1.29358
8.69565	-13.98557	2.07555	-0.22135	-1.44074	0.99053	-0.00146	12.57767	0.12312	-0.00347	1.29686
8.90472	-14.09859	2.08461	-0.21638	-1.44092	0.98966	-0.00145	12.56074	0.12389	-0.00347	1.30009
9.11577	-14.22760	2.09636	-0.21193	-1.43952	0.98792	-0.00144	12.51158	0.12479	-0.00346	1.30324
9.32836	-14.39992	2.11478	-0.20906	-1.43349	0.98359	-0.00142	12.37321	0.12604	-0.00343	1.30640
9.54198	-14.55270	2.12902	-0.20674	-1.42721	0.97912	-0.00141	12.24724	0.12701	-0.00341	1.30972
9.76563	-14.61552	2.12949	-0.20141	-1.43029	0.97993	-0.00140	12.30285	0.12721	-0.00340	1.31353
10.00000	-14.69369	2.13309	-0.19534	-1.43371	0.98092	-0.00140	12.35062	0.12763	-0.00339	1.31797

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Atkinson and Boore (1995) model
Median stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 152 - 305 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-4.69942	2.13688	-0.06184	-1.93895	1.52392	-0.00224	2.02858	0.41695	-0.01367	0.35735
PGV	1.17109	1.61192	-0.09414	-2.07670	1.43387	-0.00276	2.05486	0.47481	-0.03246	0.46851
PGA	-0.91886	1.61123	0.00328	-2.27690	1.10020	-0.00309	1.73390	0.61316	-0.02518	0.71075
0.01000	-0.64222	1.62157	0.00310	-2.33168	1.09391	-0.00302	1.93990	0.60224	-0.01807	0.72034
0.01024	-0.65945	1.62404	0.00393	-2.32984	1.08828	-0.00301	1.92632	0.60407	-0.01805	0.72073
0.01048	-0.67375	1.62643	0.00473	-2.32848	1.08292	-0.00301	1.91457	0.60576	-0.01803	0.72110
0.01072	-0.68511	1.62876	0.00549	-2.32762	1.07778	-0.00300	1.90466	0.60730	-0.01802	0.72144
0.01097	-0.69321	1.63103	0.00624	-2.32732	1.07285	-0.00299	1.89682	0.60868	-0.01801	0.72176
0.01123	-0.69791	1.63327	0.00696	-2.32761	1.06811	-0.00298	1.89114	0.60991	-0.01801	0.72208
0.01150	-0.69904	1.63549	0.00766	-2.32854	1.06355	-0.00298	1.88772	0.61098	-0.01801	0.72239
0.01177	-0.69627	1.63771	0.00834	-2.33017	1.05914	-0.00297	1.88678	0.61188	-0.01803	0.72271
0.01205	-0.68924	1.63994	0.00901	-2.33257	1.05486	-0.00296	1.88854	0.61260	-0.01805	0.72304
0.01233	-0.67758	1.64220	0.00967	-2.33583	1.05070	-0.00294	1.89326	0.61312	-0.01809	0.72341
0.01262	-0.66105	1.64451	0.01032	-2.33999	1.04663	-0.00293	1.90108	0.61345	-0.01814	0.72384
0.01292	-0.63953	1.64688	0.01098	-2.34507	1.04262	-0.00292	1.91208	0.61359	-0.01820	0.72433
0.01322	-0.61249	1.64933	0.01164	-2.35118	1.03862	-0.00290	1.92662	0.61352	-0.01828	0.72492
0.01353	-0.57914	1.65188	0.01230	-2.35847	1.03464	-0.00289	1.94524	0.61322	-0.01838	0.72561
0.01385	-0.53900	1.65456	0.01297	-2.36705	1.03067	-0.00287	1.96826	0.61269	-0.01850	0.72642
0.01417	-0.49122	1.65740	0.01364	-2.37708	1.02672	-0.00285	1.99631	0.61190	-0.01864	0.72738
0.01451	-0.43482	1.66042	0.01433	-2.38876	1.02272	-0.00282	2.03010	0.61083	-0.01880	0.72848
0.01485	-0.36967	1.66364	0.01503	-2.40210	1.01860	-0.00280	2.06975	0.60949	-0.01898	0.72973
0.01520	-0.29685	1.66706	0.01576	-2.41689	1.01425	-0.00277	2.11454	0.60796	-0.01917	0.73116
0.01556	-0.21655	1.67070	0.01654	-2.43306	1.00949	-0.00274	2.16444	0.60626	-0.01940	0.73287
0.01592	-0.12693	1.67458	0.01734	-2.45093	1.00419	-0.00271	2.22084	0.60436	-0.01967	0.73495
0.01630	-0.02680	1.67876	0.01820	-2.47076	0.99838	-0.00267	2.28467	0.60223	-0.01999	0.73745
0.01668	0.08364	1.68328	0.01910	-2.49256	0.99223	-0.00263	2.35596	0.59989	-0.02037	0.74042
0.01707	0.20078	1.68807	0.02005	-2.51564	0.98583	-0.00259	2.43214	0.59750	-0.02081	0.74382
0.01748	0.32192	1.69307	0.02102	-2.53941	0.97888	-0.00255	2.51117	0.59515	-0.02128	0.74751
0.01789	0.44933	1.69831	0.02202	-2.56429	0.97132	-0.00251	2.59480	0.59279	-0.02178	0.75147
0.01831	0.58630	1.70382	0.02306	-2.59089	0.96340	-0.00246	2.68609	0.59029	-0.02232	0.75571
0.01874	0.72814	1.70948	0.02411	-2.61818	0.95483	-0.00241	2.78209	0.58779	-0.02288	0.76015
0.01918	0.86925	1.71523	0.02518	-2.64500	0.94494	-0.00236	2.87843	0.58553	-0.02348	0.76485
0.01963	1.01171	1.72118	0.02628	-2.67184	0.93390	-0.00231	2.97635	0.58344	-0.02416	0.77007
0.02009	1.15668	1.72743	0.02744	-2.69913	0.92233	-0.00227	3.07607	0.58149	-0.02489	0.77571
0.02057	1.29211	1.73390	0.02872	-2.72472	0.91029	-0.00222	3.16705	0.58007	-0.02560	0.78127
0.02105	1.40739	1.74052	0.03014	-2.74669	0.89782	-0.00218	3.24022	0.57946	-0.02627	0.78658
0.02154	1.50092	1.74729	0.03169	-2.76477	0.88528	-0.00214	3.29417	0.57965	-0.02688	0.79151
0.02205	1.57044	1.75402	0.03334	-2.77844	0.87243	-0.00212	3.32673	0.58065	-0.02740	0.79582
0.02257	1.61674	1.76065	0.03510	-2.78779	0.85861	-0.00210	3.33834	0.58246	-0.02784	0.79961
0.02310	1.65021	1.76737	0.03697	-2.79475	0.84423	-0.00208	3.33920	0.58471	-0.02823	0.80304
0.02364	1.68251	1.77421	0.03884	-2.80137	0.82971	-0.00206	3.34082	0.58697	-0.02864	0.80663
0.02420	1.70708	1.78102	0.04066	-2.80636	0.81448	-0.00205	3.33709	0.58945	-0.02908	0.81048
0.02477	1.70820	1.78755	0.04248	-2.80686	0.79842	-0.00204	3.31395	0.59265	-0.02948	0.81416
0.02535	1.68223	1.79385	0.04444	-2.80246	0.78251	-0.00203	3.26848	0.59665	-0.02985	0.81761
0.02595	1.63738	1.80008	0.04655	-2.79476	0.76728	-0.00204	3.20881	0.60116	-0.03012	0.82038
0.02656	1.57889	1.80633	0.04876	-2.78469	0.75217	-0.00204	3.13947	0.60609	-0.03023	0.82214
0.02719	1.51411	1.81279	0.05103	-2.77379	0.73757	-0.00205	3.06546	0.61125	-0.03020	0.82310
0.02783	1.45067	1.81929	0.05328	-2.76344	0.72391	-0.00206	2.99230	0.61639	-0.03012	0.82378
0.02848	1.37899	1.82542	0.05548	-2.75157	0.71145	-0.00208	2.91463	0.62167	-0.03010	0.82483
0.02915	1.29017	1.83108	0.05775	-2.73641	0.70007	-0.00210	2.82758	0.62734	-0.03009	0.82605
0.02984	1.19928	1.83652	0.06001	-2.72072	0.68958	-0.00212	2.74270	0.63296	-0.03013	0.82762
0.03054	1.11209	1.84204	0.06217	-2.70548	0.67859	-0.00214	2.66317	0.63853	-0.03027	0.83007
0.03126	1.01516	1.84789	0.06439	-2.68844	0.66579	-0.00216	2.57788	0.64466	-0.03049	0.83315
0.03199	0.89884	1.85413	0.06687	-2.66824	0.65250	-0.00219	2.48040	0.65164	-0.03064	0.83602
0.03275	0.75471	1.86061	0.06972	-2.64368	0.64034	-0.00222	2.36654	0.65965	-0.03068	0.83826
0.03352	0.59563	1.86676	0.07277	-2.61658	0.62993	-0.00226	2.24836	0.66805	-0.03068	0.84020
0.03430	0.45327	1.87172	0.07540	-2.59155	0.62094	-0.00230	2.14847	0.67546	-0.03068	0.84214
0.03511	0.33105	1.87532	0.07740	-2.56912	0.61283	-0.00234	2.06545	0.68186	-0.03074	0.84434
0.03594	0.21613	1.87821	0.07914	-2.54776	0.60616	-0.00237	1.98837	0.68788	-0.03089	0.84719
0.03678	0.10149	1.88116	0.08106	-2.52677	0.60137	-0.00241	1.91350	0.69384	-0.03112	0.85059
0.03765	-0.01356	1.88477	0.08325	-2.50623	0.59676	-0.00245	1.84059	0.69995	-0.03134	0.85398
0.03854	-0.13201	1.88889	0.08560	-2.48550	0.59120	-0.00248	1.76640	0.70647	-0.03142	0.85651
0.03944	-0.26389	1.89288	0.08803	-2.46246	0.58442	-0.00252	1.68433	0.71386	-0.03123	0.85736
0.04037	-0.40338	1.89650	0.09036	-2.43772	0.57634	-0.00255	1.59941	0.72181	-0.03078	0.85647
0.04132	-0.53640	1.89977	0.09243	-2.41375	0.56882	-0.00258	1.52161	0.72946	-0.03022	0.85483
0.04229	-0.66026	1.90240	0.09429	-2.39116	0.56417	-0.00262	1.45236	0.73644	-0.02975	0.85361
0.04329	-0.77477	1.90458	0.09600	-2.37034	0.56265	-0.00265	1.39000	0.74281	-0.02940	0.85316
0.04431	-0.88273	1.90690	0.09760	-2.35118	0.56336	-0.00270	1.33266	0.74879	-0.02912	0.85325
0.04535	-0.99444	1.90912	0.09916	-2.33134	0.56456	-0.00274	1.27557	0.75493	-0.02884	0.85342

0.04642	-1.10604	1.91023	0.10053	-2.31038	0.56457	-0.00278	1.22007	0.76110	-0.02852	0.85319
0.04751	-1.19553	1.90973	0.10141	-2.29184	0.56455	-0.00281	1.17609	0.76607	-0.02810	0.85211
0.04863	-1.26337	1.90808	0.10191	-2.27623	0.56594	-0.00285	1.14320	0.76972	-0.02756	0.84998
0.04977	-1.33050	1.90639	0.10230	-2.26063	0.56767	-0.00288	1.11143	0.77334	-0.02685	0.84668
0.05094	-1.39951	1.90503	0.10264	-2.24460	0.56947	-0.00292	1.08052	0.77704	-0.02599	0.84240
0.05214	-1.46022	1.90325	0.10267	-2.22928	0.57194	-0.00296	1.05508	0.78011	-0.02511	0.83787
0.05337	-1.51938	1.90128	0.10243	-2.21398	0.57338	-0.00299	1.02985	0.78326	-0.02421	0.83318
0.05462	-1.58200	1.89930	0.10217	-2.19820	0.57287	-0.00302	1.00099	0.78703	-0.02330	0.82853
0.05591	-1.64390	1.89711	0.10200	-2.18276	0.57251	-0.00305	0.97039	0.79107	-0.02250	0.82473
0.05722	-1.70674	1.89465	0.10182	-2.16738	0.57376	-0.00307	0.93936	0.79512	-0.02193	0.82250
0.05857	-1.77300	1.89164	0.10141	-2.15130	0.57744	-0.00311	0.90870	0.79900	-0.02151	0.82135
0.05995	-1.86342	1.88820	0.10110	-2.13108	0.58317	-0.00315	0.87041	0.80393	-0.02107	0.82017
0.06136	-1.96448	1.88329	0.10052	-2.10826	0.58962	-0.00320	0.82799	0.80945	-0.02064	0.81902
0.06280	-2.05803	1.87747	0.09961	-2.08598	0.59460	-0.00324	0.78884	0.81473	-0.02022	0.81807
0.06428	-2.14346	1.87212	0.09878	-2.06513	0.59777	-0.00327	0.75408	0.81978	-0.01976	0.81680
0.06579	-2.22109	1.86688	0.09801	-2.04532	0.59904	-0.00330	0.72243	0.82472	-0.01903	0.81358
0.06734	-2.30198	1.86133	0.09743	-2.02416	0.59755	-0.00333	0.69024	0.83016	-0.01796	0.80799
0.06893	-2.38518	1.85501	0.09694	-2.00157	0.59579	-0.00335	0.65869	0.83571	-0.01687	0.80224
0.07055	-2.46225	1.84760	0.09611	-1.97895	0.59520	-0.00339	0.63018	0.84074	-0.01590	0.79762
0.07221	-2.52497	1.83921	0.09456	-1.95793	0.59511	-0.00341	0.60691	0.84474	-0.01491	0.79312
0.07391	-2.57683	1.83007	0.09234	-1.93844	0.59769	-0.00345	0.58829	0.84760	-0.01385	0.78797
0.07565	-2.62425	1.82059	0.08994	-1.91973	0.60501	-0.00349	0.57297	0.84952	-0.01271	0.78200
0.07743	-2.66622	1.81179	0.08768	-1.90244	0.61413	-0.00353	0.56081	0.85081	-0.01139	0.77463
0.07925	-2.69930	1.80416	0.08538	-1.88773	0.62425	-0.00358	0.55165	0.85156	-0.00998	0.76643
0.08111	-2.72381	1.79680	0.08278	-1.87513	0.63780	-0.00362	0.54440	0.85170	-0.00877	0.75933
0.08302	-2.74668	1.78874	0.07990	-1.86264	0.65381	-0.00368	0.53621	0.85180	-0.00795	0.75486
0.08498	-2.77438	1.78079	0.07688	-1.84998	0.66995	-0.00373	0.52546	0.85243	-0.00747	0.75267
0.08697	-2.80231	1.77392	0.07367	-1.83912	0.68470	-0.00377	0.51377	0.85336	-0.00710	0.75148
0.08902	-2.82952	1.76676	0.07041	-1.82866	0.69534	-0.00379	0.50077	0.85475	-0.00664	0.74991
0.09112	-2.86581	1.75736	0.06726	-1.81442	0.70012	-0.00380	0.48386	0.85727	-0.00605	0.74755
0.09326	-2.91029	1.74624	0.06400	-1.79672	0.70166	-0.00381	0.46528	0.86035	-0.00545	0.74515
0.09545	-2.93938	1.73558	0.06022	-1.78182	0.70495	-0.00382	0.45333	0.86166	-0.00486	0.74292
0.09770	-2.94814	1.72713	0.05618	-1.77248	0.71282	-0.00384	0.44954	0.86069	-0.00416	0.74014
0.10000	-2.94786	1.72001	0.05225	-1.76609	0.72532	-0.00387	0.44965	0.85851	-0.00342	0.73739
0.10235	-2.95700	1.71248	0.04874	-1.75752	0.73840	-0.00391	0.44735	0.85700	-0.00277	0.73580
0.10476	-2.98227	1.70512	0.04586	-1.74587	0.74911	-0.00394	0.44083	0.85696	-0.00220	0.73510
0.10723	-3.00947	1.69908	0.04341	-1.73488	0.75809	-0.00397	0.43439	0.85720	-0.00164	0.73467
0.10975	-3.02685	1.69388	0.04086	-1.72648	0.76496	-0.00399	0.43038	0.85688	-0.00094	0.73329
0.11233	-3.04415	1.68809	0.03810	-1.71765	0.76940	-0.00400	0.42554	0.85680	-0.00012	0.73084
0.11498	-3.07361	1.68144	0.03530	-1.70591	0.77384	-0.00401	0.41701	0.85773	0.00072	0.72782
0.11768	-3.12490	1.67463	0.03283	-1.69051	0.78128	-0.00404	0.40254	0.86039	0.00153	0.72457
0.12045	-3.19277	1.66740	0.03075	-1.67237	0.79256	-0.00408	0.38366	0.86435	0.00219	0.72193
0.12328	-3.25450	1.65963	0.02852	-1.65526	0.80543	-0.00413	0.36631	0.86783	0.00271	0.71991
0.12619	-3.28995	1.65137	0.02534	-1.64239	0.81694	-0.00416	0.35559	0.86909	0.00318	0.71800
0.12916	-3.30132	1.64248	0.02105	-1.63305	0.82469	-0.00417	0.35085	0.86824	0.00373	0.71536
0.13219	-3.30681	1.63306	0.01617	-1.62411	0.82736	-0.00417	0.34780	0.86686	0.00457	0.71058
0.13531	-3.31078	1.62309	0.01110	-1.61494	0.82746	-0.00415	0.34563	0.86514	0.00569	0.70355
0.13849	-3.31501	1.61306	0.00627	-1.60583	0.82848	-0.00413	0.34402	0.86313	0.00691	0.69544
0.14175	-3.32821	1.60428	0.00214	-1.59640	0.83129	-0.00413	0.34113	0.86169	0.00811	0.68711
0.14508	-3.35160	1.59668	-0.00162	-1.58629	0.83493	-0.00413	0.33645	0.86105	0.00913	0.67986
0.14850	-3.38499	1.58899	-0.00543	-1.57446	0.83787	-0.00412	0.32890	0.86149	0.00980	0.67512
0.15199	-3.41776	1.58104	-0.00949	-1.56310	0.84176	-0.00412	0.32028	0.86223	0.01024	0.67197
0.15557	-3.45462	1.57449	-0.01318	-1.55302	0.84792	-0.00412	0.31008	0.86370	0.01067	0.66856
0.15923	-3.49202	1.56933	-0.01642	-1.54460	0.85451	-0.00412	0.29970	0.86547	0.01104	0.66518
0.16298	-3.52073	1.56421	-0.01972	-1.53758	0.85917	-0.00411	0.29174	0.86640	0.01116	0.66341
0.16681	-3.53884	1.55812	-0.02335	-1.53084	0.86232	-0.00409	0.28735	0.86578	0.01118	0.66251
0.17074	-3.54718	1.55156	-0.02728	-1.52487	0.86676	-0.00409	0.28712	0.86316	0.01136	0.66093
0.17475	-3.54549	1.54602	-0.03143	-1.52191	0.87534	-0.00409	0.29118	0.85849	0.01164	0.65918
0.17887	-3.53901	1.54184	-0.03578	-1.52188	0.88748	-0.00409	0.29768	0.85262	0.01185	0.65836
0.18307	-3.53960	1.53776	-0.04016	-1.52131	0.89902	-0.00409	0.30290	0.84718	0.01195	0.65834
0.18738	-3.55489	1.53243	-0.04444	-1.51721	0.90636	-0.00408	0.30421	0.84317	0.01197	0.65850
0.19179	-3.57580	1.52490	-0.04889	-1.51004	0.90947	-0.00406	0.30335	0.83976	0.01174	0.65997
0.19631	-3.58988	1.51467	-0.05391	-1.50103	0.90893	-0.00403	0.30304	0.83585	0.01117	0.66342
0.20092	-3.58797	1.50315	-0.05965	-1.49301	0.90535	-0.00399	0.30599	0.83063	0.01052	0.66723
0.20565	-3.57112	1.49357	-0.06565	-1.48914	0.90092	-0.00394	0.31351	0.82407	0.01011	0.66948
0.21049	-3.55776	1.48780	-0.07110	-1.48803	0.89836	-0.00389	0.32200	0.81795	0.01004	0.66939
0.21544	-3.57301	1.48524	-0.07533	-1.48449	0.89919	-0.00387	0.32440	0.81485	0.01030	0.66710
0.22051	-3.62817	1.48436	-0.07809	-1.47507	0.90296	-0.00388	0.31688	0.81590	0.01075	0.66345
0.22570	-3.71269	1.48380	-0.07972	-1.46064	0.90777	-0.00391	0.30216	0.81994	0.01123	0.65971
0.23101	-3.80192	1.48288	-0.08104	-1.44554	0.91242	-0.00394	0.28660	0.82435	0.01158	0.65697
0.23645	-3.87185	1.48162	-0.08300	-1.43468	0.91663	-0.00394	0.27590	0.82648	0.01181	0.65508
0.24201	-3.90881	1.48026	-0.08605	-1.43082	0.92078	-0.00392	0.27328	0.82467	0.01198	0.65347
0.24771	-3.90833	1.47868	-0.09028	-1.43403	0.92658	-0.00388	0.28057	0.81811	0.01207	0.65227
0.25354	-3.87362	1.47704	-0.09551	-1.44310	0.93627	-0.00384	0.29855	0.80702	0.01222	0.65127
0.25950	-3.82090	1.47610	-0.10108	-1.45550	0.95030	-0.00382	0.32466	0.79341	0.01255	0.64978
0.26561	-3.77592	1.47610	-0.10613	-1.46667	0.96576	-0.00380	0.35200	0.78052	0.01299	0.64829
0.27186	-3.75687	1.47630	-0.11027	-1.47254	0.97872	-0.00380	0.37360	0.77055	0.01329	0.64789
0.27826	-3.76514	1.47606	-0.11372	-1.47251	0.98669	-0.00381	0.38705	0.76368	0.01333	0.64915
0.28480	-3.79175	1.47546	-0.11677	-1.46891	0.98880	-0.00381	0.39397	0.75900	0.01312	0.65192
0.29150	-3.83065	1.47508	-0.11944	-1.46396	0.98577	-0.00379	0.39625	0.75576	0.01272	0.65551
0.29836	-3.87823	1.47485	-0.12186	-1.45833	0.97961	-0.00376	0.39565	0.75328	0.01214	0.65988

0.30539	-3.92854	1.47392	-0.12441	-1.45186	0.97224	-0.00372	0.39455	0.75063	0.01135	0.66522
0.31257	-3.97238	1.47176	-0.12749	-1.44538	0.96493	-0.00369	0.39598	0.74682	0.01039	0.67157
0.31993	-4.00648	1.46907	-0.13108	-1.44037	0.96014	-0.00365	0.40168	0.74140	0.00949	0.67758
0.32745	-4.03198	1.46722	-0.13486	-1.43823	0.96175	-0.00363	0.41236	0.73436	0.00893	0.68148
0.33517	-4.05411	1.46704	-0.13862	-1.43871	0.97045	-0.00362	0.42725	0.72622	0.00883	0.68227
0.34304	-4.07727	1.46830	-0.14241	-1.44033	0.98302	-0.00362	0.44469	0.71770	0.00916	0.68020
0.35112	-4.10553	1.47022	-0.14631	-1.44122	0.99565	-0.00364	0.46231	0.70956	0.00963	0.67717
0.35938	-4.14331	1.47268	-0.15007	-1.44051	1.00562	-0.00365	0.47698	0.70270	0.00984	0.67582
0.36784	-4.19492	1.47645	-0.15328	-1.43862	1.01175	-0.00366	0.48565	0.69795	0.00960	0.67730
0.37649	-4.25899	1.48223	-0.15571	-1.43709	1.01404	-0.00364	0.48811	0.69534	0.00908	0.68063
0.38536	-4.32597	1.49001	-0.15756	-1.43807	1.01365	-0.00361	0.48920	0.69343	0.00857	0.68387
0.39442	-4.38076	1.49900	-0.15936	-1.44369	1.01310	-0.00356	0.49617	0.69008	0.00826	0.68574
0.40370	-4.41507	1.50823	-0.16153	-1.45447	1.01520	-0.00351	0.51362	0.68390	0.00811	0.68649
0.41321	-4.43421	1.51693	-0.16398	-1.46833	1.02204	-0.00346	0.54055	0.67515	0.00793	0.68737
0.42292	-4.45051	1.52453	-0.16644	-1.48194	1.03421	-0.00343	0.57238	0.66511	0.00751	0.68976
0.43288	-4.47216	1.53058	-0.16875	-1.49292	1.04997	-0.00343	0.60521	0.65478	0.00669	0.69498
0.44307	-4.50136	1.53447	-0.17097	-1.49982	1.06573	-0.00343	0.63741	0.64454	0.00538	0.70371
0.45349	-4.53516	1.53586	-0.17326	-1.50257	1.07891	-0.00344	0.66955	0.63430	0.00371	0.71527
0.46417	-4.56941	1.53481	-0.17581	-1.50191	1.08864	-0.00345	0.70281	0.62396	0.00186	0.72850
0.47508	-4.60322	1.53208	-0.17868	-1.49876	1.09461	-0.00345	0.73712	0.61368	0.00002	0.74249
0.48626	-4.64453	1.52880	-0.18168	-1.49289	1.09548	-0.00344	0.76684	0.60458	-0.00160	0.75598
0.49771	-4.70672	1.52599	-0.18459	-1.48301	1.08941	-0.00341	0.78166	0.59835	-0.00269	0.76680
0.50942	-4.79841	1.52431	-0.18729	-1.46835	1.07612	-0.00338	0.77528	0.59584	-0.00296	0.77275
0.52140	-4.91507	1.52384	-0.18976	-1.45014	1.05754	-0.00334	0.75146	0.59636	-0.00243	0.77359
0.53367	-5.04258	1.52403	-0.19211	-1.43070	1.03612	-0.00328	0.72003	0.59831	-0.00148	0.77158
0.54624	-5.16459	1.52427	-0.19450	-1.41261	1.01436	-0.00323	0.69127	0.59995	-0.00052	0.76944
0.55910	-5.27016	1.52454	-0.19705	-1.39805	0.99489	-0.00316	0.67225	0.59996	0.00029	0.76809
0.57225	-5.35525	1.52545	-0.19970	-1.38851	0.97979	-0.00310	0.66629	0.59769	0.00101	0.76720
0.58569	-5.42120	1.52758	-0.20224	-1.38433	0.96960	-0.00303	0.67314	0.59331	0.00161	0.76679
0.59948	-5.47276	1.53097	-0.20451	-1.38455	0.96389	-0.00298	0.69019	0.58751	0.00203	0.76721
0.61357	-5.51411	1.53545	-0.20638	-1.38790	0.96242	-0.00293	0.71551	0.58084	0.00230	0.76838
0.62802	-5.54815	1.54084	-0.20786	-1.39348	0.96478	-0.00290	0.74918	0.57337	0.00244	0.77024
0.64280	-5.57606	1.54675	-0.20906	-1.40061	0.96987	-0.00288	0.79126	0.56509	0.00246	0.77301
0.65794	-5.59508	1.55282	-0.21021	-1.40969	0.97687	-0.00286	0.84391	0.55573	0.00235	0.77664
0.67340	-5.60619	1.55873	-0.21149	-1.42043	0.98508	-0.00284	0.90560	0.54562	0.00218	0.78059
0.68927	-5.61583	1.56438	-0.21293	-1.43159	0.99413	-0.00282	0.97156	0.53541	0.00197	0.78479
0.70547	-5.63256	1.56965	-0.21448	-1.44128	1.00382	-0.00281	1.03455	0.52583	0.00164	0.78962
0.72207	-5.66378	1.57466	-0.21612	-1.44811	1.01391	-0.00281	1.08857	0.51733	0.00117	0.79520
0.73910	-5.71485	1.57952	-0.21792	-1.45122	1.02347	-0.00282	1.12808	0.51025	0.00073	0.80018
0.75649	-5.78751	1.58418	-0.21991	-1.45028	1.03107	-0.00284	1.15041	0.50470	0.00051	0.80288
0.77429	-5.88059	1.58834	-0.22208	-1.44519	1.03572	-0.00286	1.15695	0.50035	0.00051	0.80301
0.79246	-5.98721	1.59180	-0.22428	-1.43696	1.03786	-0.00289	1.15458	0.49645	0.00052	0.80176
0.81116	-6.09542	1.59473	-0.22645	-1.42824	1.03965	-0.00291	1.15699	0.49160	0.00032	0.80090
0.83022	-6.19333	1.59740	-0.22855	-1.42155	1.04283	-0.00292	1.17561	0.48481	-0.00016	0.80126
0.84976	-6.27899	1.59999	-0.23070	-1.41754	1.04777	-0.00294	1.21337	0.47598	-0.00082	0.80259
0.86972	-6.35223	1.60262	-0.23298	-1.41631	1.05461	-0.00295	1.27008	0.46543	-0.00146	0.80404
0.89023	-6.41315	1.60523	-0.23545	-1.41790	1.06369	-0.00296	1.34789	0.45320	-0.00195	0.80491
0.91116	-6.46012	1.60765	-0.23804	-1.42232	1.07494	-0.00297	1.45120	0.43926	-0.00224	0.80509
0.93257	-6.49100	1.60992	-0.24068	-1.43003	1.08807	-0.00297	1.58800	0.42342	-0.00233	0.80451
0.95456	-6.50558	1.61226	-0.24330	-1.44124	1.10224	-0.00297	1.76370	0.40601	-0.00216	0.80284
0.97704	-6.50510	1.61473	-0.24588	-1.45550	1.11645	-0.00295	1.97887	0.38779	-0.00175	0.80030
1.00000	-6.49153	1.61713	-0.24844	-1.47190	1.13012	-0.00291	2.23122	0.36953	-0.00128	0.79821
1.02354	-6.46633	1.61928	-0.25100	-1.48971	1.14318	-0.00287	2.51723	0.35185	-0.00096	0.79819
1.04767	-6.43230	1.62116	-0.25357	-1.50819	1.15551	-0.00283	2.82819	0.33543	-0.00092	0.80113
1.07227	-6.39437	1.62297	-0.25610	-1.52639	1.16681	-0.00278	3.14902	0.32089	-0.00116	0.80697
1.09745	-6.35906	1.62501	-0.25858	-1.54326	1.17659	-0.00273	3.46302	0.30859	-0.00162	0.81516
1.12334	-6.33193	1.62754	-0.26100	-1.55795	1.18438	-0.00268	3.75430	0.29865	-0.00223	0.82506
1.14982	-6.31673	1.63064	-0.26340	-1.56974	1.18973	-0.00263	4.00805	0.29109	-0.00294	0.83606
1.17675	-6.31472	1.63420	-0.26577	-1.57828	1.19247	-0.00259	4.21589	0.28572	-0.00371	0.84773
1.20453	-6.32491	1.63804	-0.26824	-1.58377	1.19275	-0.00254	4.37880	0.28216	-0.00454	0.85977
1.23289	-6.34322	1.64195	-0.27085	-1.58693	1.19108	-0.00250	4.50087	0.28008	-0.00535	0.87142
1.26183	-6.36613	1.64583	-0.27366	-1.58850	1.18805	-0.00246	4.58904	0.27916	-0.00607	0.88209
1.29149	-6.39417	1.64965	-0.27670	-1.58852	1.18392	-0.00242	4.64378	0.27925	-0.00663	0.89138
1.32188	-6.43120	1.65344	-0.27995	-1.58635	1.17863	-0.00238	4.65950	0.28032	-0.00700	0.89897
1.35300	-6.48366	1.65719	-0.28334	-1.58081	1.17179	-0.00236	4.62706	0.28240	-0.00717	0.90480
1.38485	-6.55948	1.66082	-0.28677	-1.57031	1.16272	-0.00233	4.53545	0.28556	-0.00716	0.90897
1.41743	-6.66286	1.66419	-0.29018	-1.55396	1.15102	-0.00232	4.38305	0.28974	-0.00697	0.91170
1.45075	-6.79298	1.66719	-0.29353	-1.53195	1.13684	-0.00232	4.17923	0.29474	-0.00662	0.91315
1.48500	-6.94579	1.66979	-0.29682	-1.50515	1.12077	-0.00233	3.93995	0.30027	-0.00612	0.91351
1.51999	-7.11399	1.67193	-0.30004	-1.47514	1.10378	-0.00235	3.68511	0.30592	-0.00548	0.91308
1.55569	-7.29061	1.67367	-0.30319	-1.44354	1.08671	-0.00238	3.43224	0.31131	-0.00476	0.91222
1.59236	-7.46944	1.67511	-0.30630	-1.41192	1.07017	-0.00241	3.19573	0.31600	-0.00398	0.91126
1.62973	-7.64349	1.67636	-0.30932	-1.38198	1.05460	-0.00244	2.98862	0.31954	-0.00316	0.91051
1.66806	-7.80967	1.67750	-0.31227	-1.35462	1.04008	-0.00247	2.81772	0.32150	-0.00235	0.91033
1.70736	-7.96398	1.67857	-0.31513	-1.33085	1.02705	-0.00250	2.69064	0.32139	-0.00159	0.91118
1.74764	-8.10609	1.67959	-0.31789	-1.31076	1.01568	-0.00252	2.60882	0.31891	-0.00093	0.91336
1.78859	-8.23448	1.68052	-0.32053	-1.29458	1.00634	-0.00253	2.57465	0.31389	-0.00037	0.91689
1.83083	-8.35152	1.68142	-0.32306	-1.28193	0.99900	-0.00254	2.58936	0.30618	0.00010	0.92172
1.87371	-8.45719	1.68235	-0.32538	-1.27263	0.99371	-0.00255	2.65273	0.29608	0.00052	0.92762
1.91791	-8.55558	1.68344	-0.32741	-1.26606	0.99039	-0.00256	2.76470	0.28379	0.00091	0.93432
1.96309	-8.64646	1.68482	-0.32905	-1.26228	0.98935	-0.00256	2.92735	0.26973	0.00134	0.94119

2.00924	-8.72825	1.68654	-0.33026	-1.26161	0.99101	-0.00257	3.14805	0.25414	0.00185	0.94765
2.05634	-8.79840	1.68849	-0.33105	-1.26443	0.99560	-0.00258	3.43681	0.23725	0.00244	0.95330
2.10482	-8.85683	1.69054	-0.33143	-1.27062	1.00282	-0.00258	3.80313	0.21929	0.00310	0.95797
2.15424	-8.90377	1.69250	-0.33144	-1.27966	1.01192	-0.00258	4.24609	0.20094	0.00379	0.96152
2.20507	-8.94210	1.69429	-0.33111	-1.29084	1.02210	-0.00258	4.76501	0.18262	0.00451	0.96387
2.25683	-8.97535	1.69586	-0.33053	-1.30300	1.03234	-0.00257	5.34149	0.16510	0.00527	0.96494
2.31000	-9.00840	1.69718	-0.32977	-1.31511	1.04196	-0.00255	5.96106	0.14863	0.00609	0.96470
2.36463	-9.04529	1.69828	-0.32894	-1.32618	1.05048	-0.00254	6.60101	0.13351	0.00697	0.96319
2.42014	-9.08921	1.69915	-0.32810	-1.33525	1.05746	-0.00253	7.23136	0.11999	0.00788	0.96073
2.47709	-9.14257	1.69980	-0.32727	-1.34190	1.06278	-0.00251	7.83925	0.10791	0.00877	0.95776
2.53550	-9.20548	1.70033	-0.32646	-1.34610	1.06640	-0.00250	8.41115	0.09725	0.00959	0.95497
2.59471	-9.27643	1.70087	-0.32567	-1.34808	1.06837	-0.00249	8.92932	0.08812	0.01026	0.95297
2.65604	-9.35607	1.70157	-0.32486	-1.34822	1.06889	-0.00248	9.39310	0.08038	0.01077	0.95213
2.71887	-9.44231	1.70258	-0.32408	-1.34690	1.06819	-0.00247	9.78919	0.07409	0.01110	0.95269
2.78242	-9.53253	1.70396	-0.32335	-1.34459	1.06661	-0.00246	10.11265	0.06922	0.01126	0.95467
2.84819	-9.62797	1.70576	-0.32267	-1.34147	1.06428	-0.00245	10.37170	0.06553	0.01127	0.95815
2.91545	-9.72697	1.70802	-0.32207	-1.33771	1.06134	-0.00245	10.56653	0.06292	0.01113	0.96310
2.98329	-9.82711	1.71063	-0.32151	-1.33362	1.05797	-0.00244	10.70271	0.06129	0.01086	0.96930
3.05344	-9.93044	1.71374	-0.32101	-1.32917	1.05418	-0.00243	10.79189	0.06040	0.01046	0.97666
3.12598	-10.03567	1.71724	-0.32051	-1.32468	1.05018	-0.00241	10.84274	0.06021	0.00994	0.98495
3.19898	-10.13940	1.72110	-0.32007	-1.32034	1.04621	-0.00240	10.86351	0.06053	0.00935	0.99352
3.27439	-10.24368	1.72531	-0.31960	-1.31622	1.04228	-0.00239	10.86210	0.06131	0.00870	1.00217
3.35121	-10.34727	1.72983	-0.31916	-1.31226	1.03844	-0.00238	10.84397	0.06237	0.00804	1.01047
3.43053	-10.45122	1.73464	-0.31869	-1.30853	1.03470	-0.00237	10.81293	0.06371	0.00736	1.01865
3.51124	-10.55449	1.73968	-0.31824	-1.30490	1.03106	-0.00236	10.77274	0.06516	0.00671	1.02672
3.59324	-10.65644	1.74480	-0.31772	-1.30153	1.02756	-0.00234	10.72582	0.06675	0.00609	1.03496
3.67782	-10.75996	1.75028	-0.31727	-1.29803	1.02401	-0.00233	10.67170	0.06838	0.00548	1.04375
3.76506	-10.86296	1.75569	-0.31665	-1.29481	1.02060	-0.00232	10.61548	0.07011	0.00490	1.05347
3.85356	-10.96689	1.76155	-0.31618	-1.29139	1.01712	-0.00231	10.55277	0.07180	0.00436	1.06385
3.94477	-11.06960	1.76710	-0.31546	-1.28825	1.01378	-0.00230	10.49186	0.07353	0.00385	1.07484
4.03714	-11.17375	1.77317	-0.31488	-1.28489	1.01034	-0.00228	10.42343	0.07526	0.00338	1.08600
4.13223	-11.27772	1.77909	-0.31415	-1.28157	1.00692	-0.00227	10.35642	0.07694	0.00295	1.09717
4.23012	-11.38262	1.78512	-0.31329	-1.27833	1.00352	-0.00226	10.28593	0.07868	0.00253	1.10808
4.32900	-11.48939	1.79172	-0.31263	-1.27471	0.99995	-0.00225	10.21048	0.08032	0.00216	1.11818
4.43066	-11.59337	1.79759	-0.31152	-1.27152	0.99662	-0.00223	10.14121	0.08196	0.00182	1.12758
4.53515	-11.70225	1.80447	-0.31062	-1.26796	0.99308	-0.00222	10.06219	0.08364	0.00149	1.13636
4.64253	-11.81192	1.81138	-0.30964	-1.26429	0.98950	-0.00221	9.98496	0.08521	0.00119	1.14445
4.75059	-11.91683	1.81752	-0.30820	-1.26118	0.98627	-0.00220	9.91435	0.08679	0.00091	1.15180
4.86145	-12.02906	1.82523	-0.30718	-1.25747	0.98272	-0.00218	9.83174	0.08839	0.00064	1.15864
4.97760	-12.14162	1.83254	-0.30584	-1.25384	0.97921	-0.00217	9.75494	0.08989	0.00040	1.16505
5.09424	-12.24923	1.83910	-0.30402	-1.25081	0.97611	-0.00216	9.68481	0.09141	0.00018	1.17092
5.21376	-12.36618	1.84771	-0.30273	-1.24708	0.97261	-0.00215	9.60086	0.09295	-0.00004	1.17644
5.33618	-12.48045	1.85566	-0.30118	-1.24349	0.96922	-0.00214	9.52532	0.09435	-0.00024	1.18162
5.46150	-12.58888	1.86232	-0.29889	-1.24069	0.96637	-0.00213	9.46009	0.09576	-0.00042	1.18661
5.58971	-12.70805	1.87139	-0.29711	-1.23723	0.96311	-0.00211	9.37945	0.09727	-0.00061	1.19157
5.72082	-12.82968	1.88099	-0.29554	-1.23342	0.95965	-0.00210	9.29854	0.09864	-0.00077	1.19653
5.85823	-12.94078	1.88782	-0.29282	-1.23072	0.95694	-0.00209	9.23733	0.09996	-0.00092	1.20170
5.99520	-13.05675	1.89624	-0.29030	-1.22789	0.95417	-0.00208	9.16712	0.10139	-0.00107	1.20693
6.13497	-13.18508	1.90746	-0.28852	-1.22414	0.95081	-0.00206	9.08200	0.10283	-0.00121	1.21229
6.28141	-13.30468	1.91630	-0.28611	-1.22092	0.94780	-0.00205	9.01361	0.10408	-0.00133	1.21785
6.42674	-13.41124	1.92281	-0.28282	-1.21883	0.94562	-0.00204	8.96043	0.10531	-0.00144	1.22337
6.57895	-13.53526	1.93282	-0.27997	-1.21601	0.94292	-0.00203	8.88791	0.10674	-0.00156	1.22923
6.73401	-13.67211	1.94576	-0.27793	-1.21221	0.93954	-0.00201	8.80133	0.10818	-0.00167	1.23520
6.89180	-13.78818	1.95417	-0.27509	-1.20942	0.93689	-0.00200	8.74157	0.10930	-0.00175	1.24115
7.05716	-13.89639	1.96047	-0.27112	-1.20769	0.93501	-0.00200	8.69371	0.11049	-0.00183	1.24727
7.22022	-14.01760	1.97030	-0.26779	-1.20531	0.93269	-0.00198	8.62896	0.11182	-0.00191	1.25316
7.39098	-14.16056	1.98453	-0.26525	-1.20176	0.92948	-0.00197	8.54324	0.11330	-0.00199	1.25905
7.56430	-14.28830	1.99559	-0.26262	-1.19856	0.92653	-0.00196	8.47517	0.11446	-0.00205	1.26453
7.73994	-14.38461	1.99990	-0.25839	-1.19730	0.92507	-0.00195	8.44102	0.11539	-0.00209	1.26953
7.92393	-14.49989	2.00797	-0.25421	-1.19557	0.92325	-0.00194	8.38902	0.11661	-0.00214	1.27426
8.11030	-14.63192	2.01991	-0.25057	-1.19311	0.92087	-0.00193	8.32044	0.11798	-0.00219	1.27855
8.29876	-14.78370	2.03638	-0.24802	-1.18938	0.91748	-0.00191	8.23217	0.11946	-0.00223	1.28246
8.49618	-14.90296	2.04540	-0.24479	-1.18677	0.91495	-0.00190	8.17763	0.12044	-0.00226	1.28610
8.69565	-14.98962	2.04754	-0.23995	-1.18617	0.91404	-0.00190	8.15522	0.12122	-0.00229	1.28947
8.90472	-15.10577	2.05569	-0.23536	-1.18468	0.91241	-0.00189	8.10678	0.12239	-0.00231	1.29282
9.11577	-15.23365	2.06663	-0.23110	-1.18273	0.91041	-0.00188	8.04762	0.12367	-0.00233	1.29610
9.32836	-15.39269	2.08459	-0.22785	-1.17938	0.90724	-0.00186	7.96023	0.12525	-0.00234	1.29942
9.54198	-15.53189	2.09864	-0.22522	-1.17600	0.90404	-0.00185	7.88814	0.12642	-0.00234	1.30286
9.76563	-15.60557	2.09824	-0.22066	-1.17554	0.90329	-0.00185	7.87690	0.12690	-0.00235	1.30674
10.00000	-15.69528	2.10081	-0.21537	-1.17514	0.90258	-0.00184	7.85397	0.12769	-0.00236	1.31128

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Atkinson and Boore (1995) model
Median stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 305 - 610 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-4.74032	2.12516	-0.11270	-1.89120	1.50841	-0.00222	1.85039	0.42167	-0.00874	0.32556
PGV	1.44530	1.62342	-0.09587	-2.15401	1.51433	-0.00276	2.43962	0.44926	-0.03105	0.45532
PGA	-1.00062	1.60244	0.00135	-2.26095	1.14334	-0.00326	1.69341	0.61157	-0.02315	0.69134
0.01000	-0.73339	1.61264	0.00131	-2.31397	1.13725	-0.00319	1.88991	0.60097	-0.01315	0.68835
0.01024	-0.74956	1.61509	0.00214	-2.31231	1.13187	-0.00319	1.87761	0.60272	-0.01311	0.68861
0.01048	-0.76282	1.61745	0.00293	-2.31113	1.12673	-0.00318	1.86708	0.60433	-0.01306	0.68884
0.01072	-0.77300	1.61975	0.00370	-2.31047	1.12181	-0.00317	1.85845	0.60578	-0.01303	0.68906
0.01097	-0.77994	1.62200	0.00444	-2.31037	1.11710	-0.00317	1.85184	0.60708	-0.01300	0.68927
0.01123	-0.78347	1.62421	0.00515	-2.31087	1.11257	-0.00316	1.84735	0.60822	-0.01298	0.68947
0.01150	-0.78345	1.62641	0.00584	-2.31199	1.10819	-0.00315	1.84506	0.60920	-0.01297	0.68968
0.01177	-0.77957	1.62860	0.00652	-2.31380	1.10395	-0.00314	1.84518	0.61001	-0.01296	0.68990
0.01205	-0.77128	1.63080	0.00718	-2.31642	1.09983	-0.00313	1.84807	0.61064	-0.01297	0.69015
0.01233	-0.75824	1.63303	0.00782	-2.31991	1.09581	-0.00312	1.85396	0.61106	-0.01299	0.69044
0.01262	-0.74043	1.63531	0.00846	-2.32428	1.09186	-0.00311	1.86285	0.61130	-0.01303	0.69079
0.01292	-0.71773	1.63764	0.00910	-2.32955	1.08794	-0.00309	1.87482	0.61135	-0.01308	0.69121
0.01322	-0.68925	1.64005	0.00973	-2.33590	1.08403	-0.00308	1.89049	0.61118	-0.01314	0.69173
0.01353	-0.65406	1.64257	0.01036	-2.34351	1.08013	-0.00306	1.91049	0.61077	-0.01323	0.69237
0.01385	-0.61231	1.64521	0.01101	-2.35235	1.07619	-0.00304	1.93473	0.61013	-0.01335	0.69316
0.01417	-0.56405	1.64799	0.01168	-2.36242	1.07216	-0.00302	1.96321	0.60928	-0.01349	0.69414
0.01451	-0.50877	1.65094	0.01237	-2.37381	1.06801	-0.00300	1.99628	0.60822	-0.01365	0.69533
0.01485	-0.44530	1.65408	0.01309	-2.38675	1.06368	-0.00297	2.03478	0.60692	-0.01385	0.69674
0.01520	-0.37255	1.65745	0.01385	-2.40146	1.05918	-0.00295	2.07959	0.60536	-0.01408	0.69844
0.01556	-0.29037	1.66107	0.01463	-2.41796	1.05447	-0.00292	2.13088	0.60354	-0.01435	0.70045
0.01592	-0.19868	1.66494	0.01544	-2.43627	1.04953	-0.00288	2.18875	0.60150	-0.01465	0.70277
0.01630	-0.09761	1.66908	0.01628	-2.45635	1.04421	-0.00285	2.25336	0.59925	-0.01499	0.70541
0.01668	0.01261	1.67347	0.01716	-2.47807	1.03835	-0.00281	2.32480	0.59683	-0.01536	0.70833
0.01707	0.12938	1.67809	0.01809	-2.50093	1.03180	-0.00277	2.40126	0.59436	-0.01576	0.71148
0.01748	0.25023	1.68296	0.01908	-2.52447	1.02455	-0.00272	2.48094	0.59194	-0.01618	0.71484
0.01789	0.37362	1.68806	0.02013	-2.54844	1.01674	-0.00268	2.56264	0.58964	-0.01662	0.71843
0.01831	0.49844	1.69340	0.02128	-2.57267	1.00856	-0.00264	2.64539	0.58748	-0.01710	0.72233
0.01874	0.62284	1.69897	0.02250	-2.59679	0.99996	-0.00259	2.72765	0.58554	-0.01763	0.72653
0.01918	0.74135	1.70471	0.02380	-2.61966	0.99026	-0.00255	2.80477	0.58402	-0.01819	0.73100
0.01963	0.85046	1.71064	0.02524	-2.64066	0.97912	-0.00251	2.87352	0.58307	-0.01878	0.73569
0.02009	0.95739	1.71682	0.02678	-2.66124	0.96716	-0.00247	2.93998	0.58238	-0.01937	0.74040
0.02057	1.06486	1.72319	0.02835	-2.68188	0.95493	-0.00243	3.00680	0.58177	-0.01993	0.74496
0.02105	1.16728	1.72963	0.02992	-2.70152	0.94260	-0.00240	3.06952	0.58140	-0.02042	0.74909
0.02154	1.25992	1.73616	0.03155	-2.71931	0.92999	-0.00236	3.12381	0.58143	-0.02086	0.75287
0.02205	1.34115	1.74277	0.03325	-2.73493	0.91665	-0.00233	3.16803	0.58194	-0.02130	0.75666
0.02257	1.40063	1.74946	0.03509	-2.74654	0.90209	-0.00231	3.19254	0.58330	-0.02178	0.76078
0.02310	1.43705	1.75625	0.03710	-2.75399	0.88647	-0.00228	3.19567	0.58554	-0.02227	0.76498
0.02364	1.45599	1.76311	0.03917	-2.75843	0.87071	-0.00227	3.18251	0.58842	-0.02269	0.76876
0.02420	1.46049	1.76998	0.04125	-2.76044	0.85588	-0.00225	3.15755	0.59169	-0.02304	0.77210
0.02477	1.44874	1.77674	0.04333	-2.75936	0.84152	-0.00225	3.12141	0.59537	-0.02336	0.77525
0.02535	1.42090	1.78338	0.04550	-2.75513	0.82639	-0.00225	3.07369	0.59956	-0.02366	0.77830
0.02595	1.36494	1.78984	0.04784	-2.74568	0.81016	-0.00225	3.00398	0.60472	-0.02390	0.78091
0.02656	1.27687	1.79604	0.05036	-2.73040	0.79383	-0.00226	2.91097	0.61090	-0.02401	0.78275
0.02719	1.17361	1.80229	0.05306	-2.71257	0.77880	-0.00228	2.81049	0.61748	-0.02404	0.78412
0.02783	1.06589	1.80898	0.05592	-2.69427	0.76520	-0.00231	2.71180	0.62414	-0.02417	0.78624
0.02848	0.96005	1.81599	0.05880	-2.67660	0.75356	-0.00234	2.61944	0.63063	-0.02444	0.78941
0.02915	0.85641	1.82289	0.06153	-2.65950	0.74344	-0.00237	2.53160	0.63693	-0.02470	0.79258
0.02984	0.75237	1.82955	0.06411	-2.64241	0.73398	-0.00240	2.44538	0.64320	-0.02484	0.79507
0.03054	0.64419	1.83603	0.06661	-2.62459	0.72418	-0.00243	2.35825	0.64965	-0.02487	0.79683
0.03126	0.52658	1.84259	0.06926	-2.60495	0.71298	-0.00246	2.26668	0.65662	-0.02481	0.79820
0.03199	0.40269	1.84946	0.07217	-2.58420	0.70070	-0.00249	2.17294	0.66405	-0.02474	0.79961
0.03275	0.26672	1.85637	0.07524	-2.56122	0.68705	-0.00252	2.07403	0.67214	-0.02463	0.80086
0.03352	0.11976	1.86302	0.07829	-2.53604	0.67245	-0.00255	1.97195	0.68074	-0.02456	0.80242
0.03430	-0.02367	1.86932	0.08122	-2.51137	0.65976	-0.00259	1.87695	0.68906	-0.02462	0.80497
0.03511	-0.14958	1.87508	0.08389	-2.48981	0.65147	-0.00262	1.79741	0.69628	-0.02467	0.80748
0.03594	-0.25552	1.88022	0.08630	-2.47156	0.64655	-0.00266	1.73324	0.70234	-0.02461	0.80921
0.03678	-0.35834	1.88487	0.08863	-2.45361	0.64180	-0.00270	1.67210	0.70826	-0.02450	0.81046
0.03765	-0.48149	1.88959	0.09109	-2.43248	0.63592	-0.00274	1.59960	0.71527	-0.02422	0.81057
0.03854	-0.61340	1.89401	0.09342	-2.40997	0.63007	-0.00278	1.52395	0.72272	-0.02369	0.80890
0.03944	-0.72950	1.89762	0.09529	-2.38980	0.62526	-0.00281	1.45893	0.72936	-0.02299	0.80599
0.04037	-0.83738	1.90075	0.09698	-2.37086	0.62124	-0.00285	1.39998	0.73555	-0.02227	0.80307
0.04132	-0.96159	1.90352	0.09894	-2.34897	0.61781	-0.00288	1.33482	0.74248	-0.02159	0.80050
0.04229	-1.09287	1.90533	0.10100	-2.32522	0.61584	-0.00293	1.26807	0.74968	-0.02097	0.79828
0.04329	-1.20706	1.90568	0.10273	-2.30332	0.61510	-0.00297	1.21056	0.75603	-0.02040	0.79617
0.04431	-1.29494	1.90518	0.10402	-2.28504	0.61457	-0.00300	1.16656	0.76110	-0.01980	0.79379
0.04535	-1.36204	1.90448	0.10495	-2.26981	0.61463	-0.00304	1.13422	0.76500	-0.01918	0.79126

0.04642	-1.41339	1.90365	0.10542	-2.25686	0.61526	-0.00307	1.11071	0.76797	-0.01863	0.78927
0.04751	-1.46145	1.90262	0.10550	-2.24412	0.61596	-0.00310	1.08958	0.77070	-0.01825	0.78855
0.04863	-1.50820	1.90150	0.10527	-2.23166	0.61778	-0.00314	1.06990	0.77319	-0.01802	0.78884
0.04977	-1.56353	1.90047	0.10508	-2.21803	0.62080	-0.00318	1.04806	0.77589	-0.01792	0.78968
0.05094	-1.63756	1.89989	0.10533	-2.20183	0.62466	-0.00322	1.01884	0.77954	-0.01779	0.79032
0.05214	-1.71445	1.89979	0.10584	-2.18559	0.62847	-0.00327	0.98816	0.78354	-0.01744	0.78967
0.05337	-1.78120	1.89905	0.10617	-2.17052	0.63130	-0.00331	0.96092	0.78719	-0.01698	0.78812
0.05462	-1.84679	1.89673	0.10628	-2.15449	0.63482	-0.00335	0.93321	0.79076	-0.01649	0.78618
0.05591	-1.92255	1.89301	0.10633	-2.13585	0.64030	-0.00339	0.90039	0.79488	-0.01595	0.78392
0.05722	-2.01359	1.88853	0.10650	-2.11422	0.64609	-0.00345	0.86100	0.79999	-0.01533	0.78123
0.05857	-2.11366	1.88333	0.10665	-2.09061	0.65064	-0.00349	0.81822	0.80583	-0.01453	0.77746
0.05995	-2.20384	1.87753	0.10632	-2.06823	0.65505	-0.00354	0.77999	0.81117	-0.01352	0.77230
0.06136	-2.27989	1.87146	0.10535	-2.04781	0.65919	-0.00358	0.74837	0.81567	-0.01237	0.76615
0.06280	-2.35360	1.86634	0.10425	-2.02813	0.66208	-0.00362	0.72035	0.82000	-0.01118	0.75957
0.06428	-2.42965	1.86219	0.10334	-2.00854	0.66462	-0.00366	0.69421	0.82434	-0.01013	0.75374
0.06579	-2.51178	1.85667	0.10237	-1.98687	0.66681	-0.00370	0.66546	0.82919	-0.00932	0.74956
0.06734	-2.59452	1.84939	0.10101	-1.96419	0.66698	-0.00372	0.63363	0.83470	-0.00857	0.74600
0.06893	-2.67010	1.84256	0.09946	-1.94382	0.66645	-0.00374	0.60316	0.84025	-0.00780	0.74241
0.07055	-2.74310	1.83761	0.09817	-1.92551	0.66842	-0.00377	0.57628	0.84540	-0.00708	0.73934
0.07221	-2.79790	1.83371	0.09679	-1.91085	0.67616	-0.00381	0.55823	0.84864	-0.00626	0.73602
0.07391	-2.83585	1.82968	0.09518	-1.89851	0.68749	-0.00386	0.54679	0.85025	-0.00529	0.73177
0.07565	-2.86194	1.82485	0.09326	-1.88734	0.69936	-0.00392	0.53942	0.85080	-0.00426	0.72702
0.07743	-2.88489	1.81938	0.09101	-1.87637	0.71002	-0.00397	0.53310	0.85103	-0.00327	0.72212
0.07925	-2.91325	1.81264	0.08836	-1.86402	0.71888	-0.00400	0.52354	0.85191	-0.00244	0.71778
0.08111	-2.94763	1.80445	0.08536	-1.84986	0.72506	-0.00403	0.50994	0.85375	-0.00191	0.71500
0.08302	-2.97807	1.79506	0.08221	-1.83541	0.73058	-0.00405	0.49614	0.85564	-0.00160	0.71369
0.08498	-2.99888	1.78402	0.07887	-1.82099	0.73825	-0.00408	0.48495	0.85668	-0.00132	0.71288
0.08697	-3.00079	1.77171	0.07505	-1.80831	0.74963	-0.00411	0.48047	0.85566	-0.00112	0.71297
0.08902	-2.98394	1.75987	0.07084	-1.79872	0.76303	-0.00415	0.48255	0.85288	-0.00078	0.71249
0.09112	-2.95759	1.74851	0.06631	-1.79079	0.77658	-0.00420	0.48712	0.84951	-0.00014	0.71029
0.09326	-2.93742	1.73717	0.06158	-1.78178	0.78893	-0.00423	0.48905	0.84686	0.00057	0.70780
0.09545	-2.94450	1.72661	0.05716	-1.76918	0.79636	-0.00426	0.48267	0.84666	0.00122	0.70574
0.09770	-2.98525	1.71838	0.05353	-1.75350	0.79784	-0.00427	0.46712	0.84944	0.00195	0.70319
0.10000	-3.04034	1.71259	0.05058	-1.73819	0.79725	-0.00428	0.44790	0.85370	0.00286	0.69957
0.10235	-3.10034	1.70658	0.04804	-1.72244	0.79780	-0.00429	0.42667	0.85861	0.00365	0.69690
0.10476	-3.16133	1.69954	0.04567	-1.70607	0.80064	-0.00430	0.40594	0.86330	0.00426	0.69567
0.10723	-3.22576	1.69213	0.04342	-1.68885	0.80384	-0.00431	0.38545	0.86810	0.00499	0.69361
0.10975	-3.29307	1.68301	0.04101	-1.66940	0.80587	-0.00432	0.36363	0.87352	0.00584	0.69065
0.11233	-3.34825	1.67176	0.03799	-1.64959	0.80723	-0.00434	0.34463	0.87807	0.00663	0.68795
0.11498	-3.38295	1.66088	0.03439	-1.63277	0.80910	-0.00435	0.33299	0.88020	0.00735	0.68540
0.11768	-3.41510	1.65031	0.03049	-1.61617	0.81101	-0.00436	0.32390	0.88158	0.00786	0.68332
0.12045	-3.46320	1.63893	0.02691	-1.59607	0.81126	-0.00438	0.31091	0.88468	0.00819	0.68123
0.12328	-3.50681	1.62789	0.02344	-1.57744	0.81076	-0.00438	0.29871	0.88771	0.00864	0.67796
0.12619	-3.54112	1.61844	0.02003	-1.56228	0.81122	-0.00439	0.28950	0.88966	0.00910	0.67489
0.12916	-3.56659	1.61015	0.01660	-1.55014	0.81478	-0.00440	0.28350	0.89018	0.00938	0.67340
0.13219	-3.59423	1.60391	0.01346	-1.53983	0.81966	-0.00441	0.27834	0.89057	0.00955	0.67272
0.13531	-3.62595	1.59952	0.01043	-1.53109	0.82447	-0.00441	0.27237	0.89156	0.00968	0.67211
0.13849	-3.65603	1.59481	0.00690	-1.52302	0.82854	-0.00441	0.26496	0.89310	0.00989	0.67081
0.14175	-3.68054	1.58822	0.00267	-1.51454	0.83026	-0.00439	0.25647	0.89496	0.01021	0.66904
0.14508	-3.70275	1.57941	-0.00186	-1.50424	0.82972	-0.00437	0.24756	0.89686	0.01067	0.66640
0.14850	-3.73695	1.56921	-0.00598	-1.49005	0.82944	-0.00437	0.23690	0.89959	0.01137	0.66164
0.15199	-3.77434	1.55912	-0.00988	-1.47548	0.83453	-0.00439	0.22691	0.90182	0.01208	0.65585
0.15557	-3.79593	1.54932	-0.01411	-1.46499	0.84563	-0.00441	0.22058	0.90165	0.01270	0.65016
0.15923	-3.80516	1.53870	-0.01870	-1.45677	0.85558	-0.00442	0.21609	0.90016	0.01336	0.64442
0.16298	-3.81259	1.52770	-0.02343	-1.44870	0.86223	-0.00442	0.21182	0.89855	0.01395	0.63967
0.16681	-3.81281	1.51786	-0.02822	-1.44236	0.86876	-0.00441	0.21035	0.89559	0.01437	0.63632
0.17074	-3.80651	1.51115	-0.03266	-1.43879	0.87694	-0.00440	0.21273	0.89114	0.01482	0.63286
0.17475	-3.80338	1.50778	-0.03670	-1.43702	0.88819	-0.00441	0.21658	0.88649	0.01544	0.62825
0.17887	-3.80881	1.50487	-0.04079	-1.43460	0.90181	-0.00442	0.21863	0.88271	0.01619	0.62274
0.18307	-3.81881	1.50051	-0.04518	-1.43109	0.91415	-0.00443	0.21857	0.87966	0.01698	0.61703
0.18738	-3.82368	1.49564	-0.04989	-1.42879	0.92531	-0.00443	0.21928	0.87602	0.01764	0.61238
0.19179	-3.82262	1.49163	-0.05466	-1.42848	0.93853	-0.00443	0.22236	0.87119	0.01797	0.61017
0.19631	-3.83126	1.48843	-0.05897	-1.42678	0.95148	-0.00443	0.22486	0.86696	0.01794	0.61032
0.20092	-3.85362	1.48564	-0.06278	-1.42248	0.95997	-0.00444	0.22543	0.86409	0.01779	0.61151
0.20565	-3.88317	1.48379	-0.06617	-1.41736	0.96528	-0.00443	0.22519	0.86197	0.01772	0.61244
0.21049	-3.91298	1.48331	-0.06922	-1.41356	0.96997	-0.00442	0.22551	0.85975	0.01782	0.61224
0.21544	-3.93627	1.48429	-0.07224	-1.41279	0.97331	-0.00440	0.22796	0.85650	0.01811	0.61088
0.22051	-3.94870	1.48548	-0.07559	-1.41462	0.97608	-0.00437	0.23318	0.85163	0.01831	0.61039
0.22570	-3.94639	1.48488	-0.07947	-1.41783	0.98213	-0.00434	0.24157	0.84450	0.01834	0.61163
0.23101	-3.92454	1.48202	-0.08413	-1.42293	0.99146	-0.00432	0.25439	0.83456	0.01824	0.61372
0.23645	-3.88268	1.47894	-0.08957	-1.43175	1.00105	-0.00429	0.27312	0.82209	0.01801	0.61623
0.24201	-3.82635	1.47665	-0.09555	-1.44398	1.00902	-0.00425	0.29684	0.80832	0.01753	0.61993
0.24771	-3.76075	1.47417	-0.10198	-1.45784	1.01689	-0.00419	0.32351	0.79422	0.01702	0.62365
0.25354	-3.69021	1.47183	-0.10850	-1.47309	1.02715	-0.00414	0.35262	0.78004	0.01687	0.62532
0.25950	-3.62887	1.47038	-0.11420	-1.48765	1.03674	-0.00409	0.38115	0.76714	0.01692	0.62619
0.26561	-3.59228	1.46908	-0.11855	-1.49745	1.03768	-0.00401	0.40394	0.75713	0.01694	0.62774
0.27186	-3.57803	1.46697	-0.12205	-1.50201	1.02765	-0.00391	0.42100	0.74939	0.01699	0.62922
0.27826	-3.57423	1.46321	-0.12565	-1.50327	1.01191	-0.00380	0.43591	0.74209	0.01721	0.62919
0.28480	-3.57822	1.45793	-0.12954	-1.50203	0.99693	-0.00369	0.45007	0.73450	0.01747	0.62843
0.29150	-3.59333	1.45270	-0.13331	-1.49880	0.98729	-0.00361	0.46265	0.72718	0.01744	0.62916
0.29836	-3.62431	1.44884	-0.13668	-1.49326	0.98502	-0.00358	0.47131	0.72118	0.01708	0.63186

0.30539	-3.66393	1.44751	-0.13958	-1.48773	0.99140	-0.00359	0.47986	0.71571	0.01658	0.63547
0.31257	-3.68942	1.44905	-0.14222	-1.48754	1.00641	-0.00362	0.49871	0.70807	0.01611	0.63928
0.31993	-3.68949	1.45244	-0.14502	-1.49474	1.02548	-0.00365	0.53244	0.69719	0.01574	0.64315
0.32745	-3.67607	1.45640	-0.14804	-1.50629	1.04291	-0.00366	0.57483	0.68481	0.01532	0.64749
0.33517	-3.66507	1.45999	-0.15115	-1.51798	1.05794	-0.00366	0.61825	0.67270	0.01475	0.65214
0.34304	-3.66083	1.46283	-0.15426	-1.52778	1.07197	-0.00365	0.66039	0.66137	0.01415	0.65598
0.35112	-3.66951	1.46520	-0.15718	-1.53411	1.08253	-0.00363	0.69672	0.65186	0.01357	0.65862
0.35938	-3.70854	1.46731	-0.15975	-1.53348	1.08324	-0.00360	0.71458	0.64637	0.01302	0.66024
0.36784	-3.79056	1.46927	-0.16211	-1.52364	1.07010	-0.00355	0.70460	0.64629	0.01245	0.66139
0.37649	-3.90492	1.47202	-0.16432	-1.50807	1.04768	-0.00349	0.67385	0.65045	0.01177	0.66319
0.38536	-4.02697	1.47649	-0.16630	-1.49329	1.02696	-0.00344	0.64039	0.65548	0.01103	0.66599
0.39442	-4.14123	1.48216	-0.16804	-1.48210	1.01664	-0.00341	0.61519	0.65882	0.01045	0.66866
0.40370	-4.24515	1.48758	-0.16968	-1.47326	1.01853	-0.00343	0.59948	0.65974	0.00995	0.67154
0.41321	-4.34057	1.49194	-0.17128	-1.46524	1.02897	-0.00347	0.59090	0.65862	0.00935	0.67540
0.42292	-4.42231	1.49555	-0.17298	-1.45931	1.04359	-0.00352	0.59083	0.65540	0.00864	0.68020
0.43288	-4.48137	1.49868	-0.17502	-1.45752	1.05949	-0.00355	0.60334	0.64945	0.00788	0.68558
0.44307	-4.51399	1.50084	-0.17770	-1.45985	1.07383	-0.00357	0.63070	0.64051	0.00717	0.69086
0.45349	-4.52535	1.50206	-0.18090	-1.46515	1.08476	-0.00356	0.67158	0.62932	0.00661	0.69532
0.46417	-4.52743	1.50336	-0.18414	-1.47215	1.09066	-0.00352	0.71964	0.61769	0.00626	0.69834
0.47508	-4.53862	1.50530	-0.18700	-1.47773	1.08932	-0.00346	0.76248	0.60797	0.00609	0.70046
0.48626	-4.57392	1.50794	-0.18938	-1.47873	1.08094	-0.00338	0.78884	0.60166	0.00595	0.70308
0.49771	-4.63672	1.51151	-0.19148	-1.47496	1.06896	-0.00332	0.79552	0.59880	0.00588	0.70586
0.50942	-4.72011	1.51621	-0.19354	-1.46850	1.05763	-0.00327	0.78887	0.59803	0.00616	0.70660
0.52140	-4.81043	1.52164	-0.19573	-1.46202	1.04966	-0.00323	0.78023	0.59724	0.00680	0.70479
0.53367	-4.89354	1.52684	-0.19819	-1.45743	1.04492	-0.00321	0.77929	0.59470	0.00752	0.70240
0.54624	-4.95718	1.53110	-0.20096	-1.45635	1.04264	-0.00318	0.79380	0.58924	0.00788	0.70261
0.55910	-4.99524	1.53483	-0.20377	-1.46034	1.04369	-0.00315	0.82884	0.58053	0.00757	0.70760
0.57225	-5.00911	1.53902	-0.20614	-1.47023	1.04965	-0.00311	0.88529	0.56914	0.00663	0.71710
0.58569	-5.00530	1.54402	-0.20788	-1.48488	1.06012	-0.00307	0.96020	0.55618	0.00536	0.72893
0.59948	-4.99173	1.54918	-0.20928	-1.50165	1.07279	-0.00303	1.04836	0.54271	0.00404	0.74084
0.61357	-4.98205	1.55346	-0.21076	-1.51626	1.08452	-0.00300	1.13820	0.53009	0.00287	0.75160
0.62802	-4.99127	1.55683	-0.21259	-1.52552	1.09344	-0.00298	1.21577	0.51947	0.00203	0.76003
0.64280	-5.02527	1.55979	-0.21480	-1.52882	1.09941	-0.00297	1.27442	0.51108	0.00172	0.76486
0.65794	-5.07477	1.56259	-0.21725	-1.52845	1.10311	-0.00296	1.32254	0.50383	0.00185	0.76684
0.67340	-5.12352	1.56563	-0.21965	-1.52830	1.10556	-0.00294	1.37442	0.49648	0.00224	0.76727
0.68927	-5.16834	1.56912	-0.22177	-1.52950	1.10733	-0.00292	1.43406	0.48875	0.00285	0.76639
0.70547	-5.21967	1.57259	-0.22347	-1.52951	1.10861	-0.00290	1.49198	0.48123	0.00364	0.76421
0.72207	-5.28858	1.57564	-0.22482	-1.52583	1.10991	-0.00289	1.53639	0.47454	0.00451	0.76100
0.73910	-5.37579	1.57815	-0.22599	-1.51819	1.11170	-0.00289	1.56136	0.46908	0.00529	0.75790
0.75649	-5.47037	1.58047	-0.22724	-1.50897	1.11448	-0.00289	1.57182	0.46477	0.00575	0.75636
0.77429	-5.56027	1.58293	-0.22880	-1.50079	1.11785	-0.00289	1.57771	0.46112	0.00583	0.75675
0.79246	-5.63737	1.58543	-0.23073	-1.49518	1.12077	-0.00289	1.58916	0.45739	0.00555	0.75864
0.81116	-5.70217	1.58781	-0.23294	-1.49199	1.12213	-0.00287	1.61153	0.45295	0.00493	0.76191
0.83022	-5.76113	1.58999	-0.23524	-1.48970	1.12026	-0.00284	1.64239	0.44791	0.00401	0.76655
0.84976	-5.82522	1.59218	-0.23750	-1.48635	1.11422	-0.00281	1.67221	0.44295	0.00291	0.77219
0.86972	-5.90245	1.59481	-0.23953	-1.48086	1.10496	-0.00278	1.69018	0.43892	0.00177	0.77817
0.89023	-5.99613	1.59816	-0.24129	-1.47297	1.09424	-0.00275	1.69251	0.43612	0.00072	0.78430
0.91116	-6.10140	1.60212	-0.24282	-1.46336	1.08389	-0.00273	1.68551	0.43407	-0.00017	0.79024
0.93257	-6.21086	1.60641	-0.24430	-1.45324	1.07460	-0.00272	1.67994	0.43193	-0.00077	0.79519
0.95456	-6.32111	1.61082	-0.24585	-1.44312	1.06520	-0.00271	1.67871	0.42943	-0.00115	0.79926
0.97704	-6.43623	1.61531	-0.24743	-1.43206	1.05322	-0.00270	1.67024	0.42746	-0.00143	0.80324
1.00000	-6.56506	1.61990	-0.24900	-1.41826	1.03721	-0.00267	1.63821	0.42723	-0.00164	0.80724
1.02354	-6.70835	1.62453	-0.25050	-1.40161	1.01879	-0.00264	1.58165	0.42884	-0.00168	0.81052
1.04767	-6.85585	1.62900	-0.25195	-1.38401	1.00124	-0.00261	1.51564	0.43126	-0.00153	0.81290
1.07227	-6.99621	1.63303	-0.25341	-1.36740	0.98699	-0.00259	1.45599	0.43331	-0.00131	0.81512
1.09745	-7.12421	1.63668	-0.25497	-1.35280	0.97737	-0.00259	1.41081	0.43427	-0.00110	0.81807
1.12334	-7.23871	1.64020	-0.25670	-1.34079	0.97352	-0.00259	1.38280	0.43381	-0.00095	0.82205
1.14982	-7.33864	1.64377	-0.25863	-1.33203	0.97586	-0.00261	1.37378	0.43162	-0.00083	0.82649
1.17675	-7.41967	1.64734	-0.26080	-1.32769	0.98400	-0.00264	1.39063	0.42697	-0.00071	0.83075
1.20453	-7.47971	1.65059	-0.26331	-1.32829	0.99700	-0.00268	1.44161	0.41903	-0.00066	0.83489
1.23289	-7.51828	1.65307	-0.26612	-1.33350	1.01342	-0.00271	1.53152	0.40759	-0.00070	0.83894
1.26183	-7.53798	1.65454	-0.26913	-1.34253	1.03160	-0.00274	1.66390	0.39289	-0.00080	0.84285
1.29149	-7.54010	1.65501	-0.27219	-1.35509	1.05008	-0.00275	1.84643	0.37515	-0.00094	0.84679
1.32188	-7.52607	1.65467	-0.27519	-1.37100	1.06755	-0.00275	2.08743	0.35490	-0.00106	0.85072
1.35300	-7.49865	1.65385	-0.27802	-1.38984	1.08333	-0.00272	2.39450	0.33284	-0.00110	0.85432
1.38485	-7.46601	1.65275	-0.28060	-1.40978	1.09711	-0.00269	2.76608	0.30999	-0.00102	0.85756
1.41743	-7.44254	1.65145	-0.28289	-1.42757	1.10862	-0.00265	3.18200	0.28762	-0.00087	0.86061
1.45075	-7.44138	1.65019	-0.28489	-1.44046	1.11809	-0.00262	3.60996	0.26685	-0.00065	0.86338
1.48500	-7.46506	1.64936	-0.28667	-1.44830	1.12704	-0.00262	4.02826	0.24809	-0.00036	0.86582
1.51999	-7.50571	1.64922	-0.28831	-1.45292	1.13685	-0.00263	4.42807	0.23153	-0.00005	0.86821
1.55569	-7.55202	1.64980	-0.28989	-1.45664	1.14736	-0.00264	4.81755	0.21692	0.00026	0.87082
1.59236	-7.60118	1.65096	-0.29155	-1.45990	1.15659	-0.00265	5.19368	0.20418	0.00059	0.87360
1.62973	-7.65590	1.65251	-0.29334	-1.46170	1.16271	-0.00266	5.53433	0.19352	0.00093	0.87671
1.66806	-7.72201	1.65435	-0.29534	-1.46064	1.16491	-0.00265	5.81551	0.18499	0.00125	0.88061
1.70736	-7.80422	1.65642	-0.29756	-1.45557	1.16293	-0.00264	6.01386	0.17864	0.00153	0.88568
1.74764	-7.90381	1.65879	-0.30003	-1.44623	1.15706	-0.00263	6.11890	0.17438	0.00175	0.89211
1.78859	-8.01682	1.66155	-0.30272	-1.43348	1.14828	-0.00262	6.13672	0.17205	0.00188	0.89995
1.83083	-8.13880	1.66485	-0.30567	-1.41857	1.13779	-0.00261	6.08665	0.17129	0.00190	0.90938
1.87371	-8.26220	1.66870	-0.30882	-1.40306	1.12685	-0.00260	5.99085	0.17179	0.00182	0.92006
1.91791	-8.38554	1.67316	-0.31221	-1.38752	1.11591	-0.00259	5.86489	0.17324	0.00165	0.93174
1.96309	-8.50537	1.67817	-0.31580	-1.37265	1.10537	-0.00257	5.72422	0.17532	0.00144	0.94378

2.00924	-8.61915	1.68361	-0.31958	-1.35900	1.09550	-0.00256	5.58342	0.17773	0.00123	0.95562
2.05634	-8.72554	1.68940	-0.32352	-1.34687	1.08628	-0.00254	5.45249	0.18019	0.00104	0.96677
2.10482	-8.82504	1.69547	-0.32763	-1.33623	1.07739	-0.00252	5.33626	0.18255	0.00089	0.97698
2.15424	-8.91805	1.70171	-0.33183	-1.32690	1.06839	-0.00250	5.23477	0.18471	0.00077	0.98593
2.20507	-9.00705	1.70810	-0.33610	-1.31846	1.05867	-0.00247	5.14428	0.18670	0.00070	0.99360
2.25683	-9.09443	1.71454	-0.34038	-1.31034	1.04770	-0.00243	5.05789	0.18855	0.00066	0.99996
2.31000	-9.18513	1.72104	-0.34465	-1.30160	1.03479	-0.00239	4.96511	0.19039	0.00068	1.00511
2.36463	-9.28278	1.72756	-0.34887	-1.29150	1.01964	-0.00235	4.85854	0.19224	0.00074	1.00912
2.42014	-9.38960	1.73395	-0.35295	-1.27947	1.00241	-0.00231	4.73388	0.19411	0.00085	1.01206
2.47709	-9.50819	1.74024	-0.35685	-1.26511	0.98345	-0.00227	4.58957	0.19597	0.00099	1.01413
2.53550	-9.63805	1.74640	-0.36053	-1.24858	0.96370	-0.00224	4.42967	0.19773	0.00117	1.01558
2.59471	-9.77474	1.75236	-0.36391	-1.23078	0.94455	-0.00221	4.26600	0.19920	0.00137	1.01667
2.65604	-9.91755	1.75825	-0.36701	-1.21225	0.92678	-0.00220	4.10761	0.20019	0.00162	1.01757
2.71887	-10.05910	1.76400	-0.36978	-1.19446	0.91178	-0.00219	3.97235	0.20038	0.00191	1.01850
2.78242	-10.19140	1.76952	-0.37221	-1.17906	0.90082	-0.00219	3.87970	0.19941	0.00228	1.01956
2.84819	-10.31370	1.77486	-0.37431	-1.16655	0.89431	-0.00220	3.84060	0.19690	0.00272	1.02099
2.91545	-10.42394	1.77988	-0.37609	-1.15704	0.89221	-0.00221	3.85702	0.19284	0.00323	1.02307
2.98329	-10.52043	1.78443	-0.37747	-1.15075	0.89438	-0.00223	3.93507	0.18716	0.00378	1.02580
3.05344	-10.60688	1.78864	-0.37855	-1.14707	0.90006	-0.00225	4.07130	0.18004	0.00437	1.02934
3.12598	-10.68420	1.79253	-0.37926	-1.14597	0.90880	-0.00228	4.27144	0.17155	0.00501	1.03338
3.19898	-10.75414	1.79611	-0.37964	-1.14663	0.91882	-0.00230	4.51442	0.16251	0.00568	1.03758
3.27439	-10.82174	1.79960	-0.37965	-1.14865	0.92944	-0.00233	4.80122	0.15300	0.00642	1.04144
3.35121	-10.88900	1.80306	-0.37936	-1.15134	0.93920	-0.00235	5.10933	0.14369	0.00718	1.04475
3.43053	-10.95820	1.80662	-0.37874	-1.15473	0.94780	-0.00236	5.43981	0.13463	0.00799	1.04740
3.51124	-11.03018	1.81031	-0.37788	-1.15812	0.95434	-0.00236	5.76693	0.12637	0.00879	1.04984
3.59324	-11.10543	1.81409	-0.37675	-1.16159	0.95878	-0.00236	6.09050	0.11888	0.00955	1.05215
3.67782	-11.18472	1.81812	-0.37548	-1.16478	0.96134	-0.00235	6.39835	0.11228	0.01021	1.05539
3.76506	-11.26707	1.82218	-0.37392	-1.16820	0.96235	-0.00233	6.70050	0.10647	0.01076	1.05963
3.85356	-11.35164	1.82655	-0.37236	-1.17119	0.96230	-0.00232	6.97204	0.10167	0.01112	1.06539
3.94477	-11.43815	1.83082	-0.37048	-1.17442	0.96197	-0.00230	7.23057	0.09770	0.01133	1.07205
4.03714	-11.52696	1.83549	-0.36863	-1.17719	0.96140	-0.00228	7.45390	0.09463	0.01137	1.07967
4.13223	-11.61799	1.84014	-0.36661	-1.17975	0.96134	-0.00227	7.64989	0.09236	0.01126	1.08784
4.23012	-11.71121	1.84496	-0.36440	-1.18232	0.96196	-0.00225	7.82255	0.09080	0.01101	1.09613
4.32900	-11.80635	1.85020	-0.36237	-1.18410	0.96249	-0.00225	7.95452	0.08991	0.01064	1.10442
4.43066	-11.90122	1.85495	-0.35997	-1.18604	0.96335	-0.00224	8.07424	0.08952	0.01018	1.11220
4.53515	-12.00022	1.86044	-0.35770	-1.18736	0.96391	-0.00223	8.16059	0.08967	0.00960	1.11998
4.64253	-12.09981	1.86596	-0.35541	-1.18834	0.96397	-0.00222	8.22945	0.09012	0.00896	1.12758
4.75059	-12.19506	1.87087	-0.35276	-1.18983	0.96397	-0.00221	8.29858	0.09078	0.00826	1.13464
4.86145	-12.29619	1.87695	-0.35043	-1.19038	0.96313	-0.00220	8.33515	0.09178	0.00750	1.14178
4.97760	-12.39867	1.88276	-0.34789	-1.19068	0.96176	-0.00219	8.36625	0.09282	0.00677	1.14869
5.09424	-12.49705	1.88792	-0.34498	-1.19133	0.96027	-0.00218	8.39880	0.09392	0.00605	1.15516
5.21376	-12.60381	1.89472	-0.34250	-1.19082	0.95784	-0.00216	8.39651	0.09531	0.00531	1.16166
5.33618	-12.70942	1.90107	-0.33992	-1.19003	0.95514	-0.00215	8.39132	0.09660	0.00465	1.16778
5.46150	-12.81019	1.90632	-0.33674	-1.18990	0.95264	-0.00214	8.39778	0.09784	0.00404	1.17363
5.58971	-12.92094	1.91354	-0.33398	-1.18866	0.94937	-0.00212	8.37088	0.09937	0.00342	1.17967
5.72082	-13.03459	1.92134	-0.33146	-1.18679	0.94579	-0.00211	8.33161	0.10089	0.00286	1.18569
5.85823	-13.13824	1.92683	-0.32804	-1.18625	0.94310	-0.00209	8.32400	0.10214	0.00237	1.19172
5.99520	-13.24610	1.93361	-0.32478	-1.18530	0.94018	-0.00208	8.29737	0.10360	0.00189	1.19789
6.13497	-13.36601	1.94290	-0.32214	-1.18308	0.93649	-0.00206	8.23902	0.10529	0.00143	1.20427
6.28141	-13.47804	1.95028	-0.31908	-1.18150	0.93337	-0.00205	8.20281	0.10666	0.00105	1.21064
6.42674	-13.57682	1.95556	-0.31535	-1.18120	0.93120	-0.00204	8.19059	0.10785	0.00071	1.21685
6.57895	-13.69215	1.96388	-0.31190	-1.17990	0.92830	-0.00202	8.14679	0.10941	0.00035	1.22351
6.73401	-13.82087	1.97496	-0.30912	-1.17727	0.92457	-0.00200	8.07352	0.11119	0.00001	1.23030
6.89180	-13.92984	1.98216	-0.30583	-1.17584	0.92187	-0.00199	8.03785	0.11242	-0.00024	1.23684
7.05716	-14.02995	1.98732	-0.30164	-1.17569	0.92005	-0.00198	8.02472	0.11354	-0.00048	1.24347
7.22022	-14.14303	1.99567	-0.29792	-1.17455	0.91756	-0.00197	7.98083	0.11500	-0.00072	1.24994
7.39098	-14.27834	2.00815	-0.29476	-1.17191	0.91399	-0.00195	7.90111	0.11684	-0.00096	1.25646
7.56430	-14.40004	2.01796	-0.29166	-1.16960	0.91083	-0.00193	7.84168	0.11826	-0.00115	1.26243
7.73994	-14.48944	2.02146	-0.28745	-1.16963	0.90946	-0.00193	7.83577	0.11907	-0.00128	1.26773
7.92393	-14.59703	2.02833	-0.28315	-1.16902	0.90755	-0.00191	7.80404	0.12032	-0.00144	1.27283
8.11030	-14.72170	2.03884	-0.27921	-1.16743	0.90491	-0.00190	7.74505	0.12190	-0.00160	1.27756
8.29876	-14.86755	2.05379	-0.27602	-1.16430	0.90115	-0.00188	7.65305	0.12383	-0.00175	1.28192
8.49618	-14.98160	2.06194	-0.27255	-1.16250	0.89856	-0.00187	7.60783	0.12498	-0.00186	1.28584
8.69565	-15.06155	2.06342	-0.26800	-1.16296	0.89774	-0.00186	7.61039	0.12556	-0.00193	1.28937
8.90472	-15.17067	2.07048	-0.26345	-1.16232	0.89597	-0.00185	7.57595	0.12676	-0.00202	1.29298
9.11577	-15.29191	2.08024	-0.25908	-1.16109	0.89376	-0.00184	7.52458	0.12819	-0.00212	1.29654
9.32836	-15.44547	2.09685	-0.25525	-1.15828	0.89028	-0.00182	7.43262	0.13021	-0.00221	1.30021
9.54198	-15.58104	2.11002	-0.25212	-1.15540	0.88694	-0.00181	7.35799	0.13174	-0.00228	1.30389
9.76563	-15.64948	2.10920	-0.24801	-1.15570	0.88626	-0.00180	7.36542	0.13201	-0.00231	1.30783
10.00000	-15.73280	2.11099	-0.24320	-1.15596	0.88545	-0.00179	7.35819	0.13264	-0.00234	1.31246

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Atkinson and Boore (1995) model
Median stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 610 - 1220 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-4.52041	2.15048	-0.14516	-1.94304	1.54154	-0.00214	2.19028	0.40206	-0.01512	0.34527
PGV	1.55319	1.62876	-0.09968	-2.18872	1.52812	-0.00262	2.69092	0.43402	-0.04045	0.51413
PGA	-1.22063	1.58208	-0.00329	-2.21140	1.06970	-0.00299	1.52168	0.62467	-0.02938	0.73861
0.01000	-0.98531	1.59152	-0.00309	-2.25812	1.06255	-0.00293	1.68542	0.61494	-0.02274	0.75133
0.01024	-1.00363	1.59400	-0.00221	-2.25610	1.05682	-0.00293	1.67204	0.61694	-0.02272	0.75176
0.01048	-1.01952	1.59639	-0.00136	-2.25447	1.05133	-0.00292	1.66003	0.61881	-0.02271	0.75216
0.01072	-1.03286	1.59871	-0.00053	-2.25326	1.04604	-0.00291	1.64948	0.62056	-0.02270	0.75255
0.01097	-1.04348	1.60097	0.00027	-2.25250	1.04094	-0.00291	1.64050	0.62216	-0.02270	0.75292
0.01123	-1.05122	1.60320	0.00105	-2.25224	1.03600	-0.00290	1.63320	0.62362	-0.02271	0.75329
0.01150	-1.05584	1.60540	0.00181	-2.25252	1.03121	-0.00289	1.62772	0.62493	-0.02273	0.75366
0.01177	-1.05707	1.60758	0.00256	-2.25341	1.02655	-0.00288	1.62421	0.62608	-0.02275	0.75405
0.01205	-1.05462	1.60978	0.00330	-2.25497	1.02202	-0.00287	1.62283	0.62707	-0.02279	0.75446
0.01233	-1.04819	1.61199	0.00403	-2.25726	1.01761	-0.00286	1.62378	0.62787	-0.02284	0.75491
0.01262	-1.03749	1.61424	0.00477	-2.26033	1.01327	-0.00285	1.62723	0.62850	-0.02290	0.75541
0.01292	-1.02241	1.61654	0.00550	-2.26421	1.00896	-0.00284	1.63321	0.62894	-0.02297	0.75597
0.01322	-1.00288	1.61890	0.00624	-2.26890	1.00459	-0.00282	1.64176	0.62920	-0.02306	0.75660
0.01353	-0.97830	1.62135	0.00700	-2.27455	1.00019	-0.00281	1.65320	0.62928	-0.02316	0.75730
0.01385	-0.94806	1.62392	0.00778	-2.28128	0.99577	-0.00279	1.66793	0.62915	-0.02328	0.75810
0.01417	-0.91129	1.62663	0.00857	-2.28926	0.99131	-0.00277	1.68650	0.62879	-0.02341	0.75902
0.01451	-0.86691	1.62951	0.00939	-2.29869	0.98676	-0.00275	1.70966	0.62815	-0.02357	0.76013
0.01485	-0.81420	1.63256	0.01022	-2.30969	0.98210	-0.00273	1.73795	0.62722	-0.02375	0.76146
0.01520	-0.75195	1.63581	0.01107	-2.32247	0.97725	-0.00270	1.77224	0.62596	-0.02397	0.76305
0.01556	-0.67988	1.63930	0.01196	-2.33712	0.97212	-0.00267	1.81267	0.62440	-0.02422	0.76499
0.01592	-0.59957	1.64304	0.01289	-2.35333	0.96667	-0.00264	1.85823	0.62264	-0.02452	0.76728
0.01630	-0.51311	1.64701	0.01389	-2.37069	0.96082	-0.00261	1.90759	0.62079	-0.02485	0.76986
0.01668	-0.42153	1.65121	0.01494	-2.38898	0.95441	-0.00257	1.96016	0.61890	-0.02520	0.77265
0.01707	-0.32397	1.65567	0.01605	-2.40836	0.94735	-0.00254	2.01645	0.61696	-0.02557	0.77566
0.01748	-0.21875	1.66039	0.01721	-2.42914	0.93975	-0.00250	2.07776	0.61492	-0.02597	0.77893
0.01789	-0.10395	1.66534	0.01838	-2.45166	0.93198	-0.00245	2.14597	0.61265	-0.02642	0.78257
0.01831	0.01776	1.67051	0.01955	-2.47537	0.92391	-0.00241	2.21960	0.61026	-0.02693	0.78667
0.01874	0.14076	1.67587	0.02079	-2.49918	0.91495	-0.00237	2.29436	0.60805	-0.02749	0.79112
0.01918	0.26108	1.68147	0.02210	-2.52242	0.90480	-0.00232	2.36654	0.60622	-0.02803	0.79555
0.01963	0.37754	1.68739	0.02353	-2.54504	0.89375	-0.00228	2.43452	0.60481	-0.02856	0.79988
0.02009	0.48498	1.69361	0.02508	-2.56609	0.88195	-0.00224	2.49414	0.60400	-0.02910	0.80440
0.02057	0.57320	1.69990	0.02676	-2.58349	0.86926	-0.00220	2.53816	0.60409	-0.02968	0.80921
0.02105	0.64230	1.70603	0.02853	-2.59705	0.85590	-0.00217	2.56778	0.60492	-0.03029	0.81425
0.02154	0.70370	1.71202	0.03035	-2.60890	0.84240	-0.00214	2.59231	0.60600	-0.03092	0.81937
0.02205	0.75459	1.71798	0.03224	-2.61865	0.82865	-0.00212	2.60930	0.60746	-0.03149	0.82417
0.02257	0.79410	1.72402	0.03417	-2.62629	0.81424	-0.00210	2.61744	0.60939	-0.03196	0.82828
0.02310	0.82348	1.73020	0.03613	-2.63214	0.79929	-0.00208	2.61732	0.61174	-0.03234	0.83170
0.02364	0.83593	1.73649	0.03815	-2.63507	0.78424	-0.00206	2.60355	0.61476	-0.03262	0.83455
0.02420	0.83338	1.74282	0.04025	-2.63535	0.76929	-0.00205	2.57864	0.61830	-0.03289	0.83738
0.02477	0.81945	1.74887	0.04236	-2.63322	0.75405	-0.00205	2.54689	0.62217	-0.03328	0.84100
0.02535	0.79584	1.75475	0.04452	-2.62910	0.73868	-0.00204	2.50937	0.62634	-0.03376	0.84536
0.02595	0.77168	1.76089	0.04673	-2.62514	0.72422	-0.00204	2.47224	0.63051	-0.03425	0.84979
0.02656	0.74801	1.76748	0.04895	-2.62171	0.71088	-0.00205	2.43659	0.63463	-0.03464	0.85361
0.02719	0.71507	1.77442	0.05117	-2.61679	0.69706	-0.00205	2.39564	0.63912	-0.03488	0.85647
0.02783	0.65583	1.78154	0.05348	-2.60725	0.68134	-0.00206	2.33634	0.64473	-0.03499	0.85858
0.02848	0.56961	1.78853	0.05593	-2.59292	0.66441	-0.00206	2.25862	0.65148	-0.03513	0.86086
0.02915	0.47371	1.79481	0.05835	-2.57654	0.64828	-0.00208	2.17666	0.65846	-0.03526	0.86310
0.02984	0.37490	1.80015	0.06063	-2.55915	0.63362	-0.00209	2.09609	0.66531	-0.03525	0.86442
0.03054	0.27735	1.80496	0.06280	-2.54165	0.62031	-0.00211	2.02001	0.67194	-0.03510	0.86486
0.03126	0.17872	1.80970	0.06501	-2.52392	0.60867	-0.00213	1.94693	0.67847	-0.03496	0.86539
0.03199	0.07621	1.81467	0.06736	-2.50565	0.59789	-0.00216	1.87436	0.68516	-0.03488	0.86652
0.03275	-0.04057	1.81996	0.06990	-2.48509	0.58631	-0.00218	1.79513	0.69259	-0.03485	0.86810
0.03352	-0.17395	1.82536	0.07258	-2.46179	0.57401	-0.00221	1.70840	0.70086	-0.03474	0.86934
0.03430	-0.31299	1.83050	0.07525	-2.43751	0.56206	-0.00224	1.62064	0.70949	-0.03456	0.87017
0.03511	-0.44804	1.83497	0.07778	-2.41373	0.55282	-0.00228	1.53791	0.71782	-0.03442	0.87130
0.03594	-0.56424	1.83903	0.08001	-2.39317	0.54653	-0.00231	1.46836	0.72515	-0.03432	0.87273
0.03678	-0.64516	1.84309	0.08177	-2.37887	0.54148	-0.00234	1.41874	0.73090	-0.03418	0.87387
0.03765	-0.70486	1.84708	0.08318	-2.36834	0.53606	-0.00236	1.38058	0.73572	-0.03390	0.87400
0.03854	-0.76707	1.85086	0.08443	-2.35729	0.52914	-0.00237	1.34178	0.74072	-0.03346	0.87304
0.03944	-0.84542	1.85401	0.08562	-2.34298	0.52123	-0.00239	1.29682	0.74635	-0.03296	0.87160
0.04037	-0.93216	1.85618	0.08676	-2.32645	0.51476	-0.00241	1.25123	0.75198	-0.03252	0.87048
0.04132	-1.02145	1.85776	0.08801	-2.30874	0.50978	-0.00244	1.20740	0.75748	-0.03224	0.87043
0.04229	-1.11655	1.85959	0.08953	-2.28985	0.50538	-0.00247	1.16307	0.76328	-0.03201	0.87082
0.04329	-1.21207	1.86175	0.09109	-2.27111	0.50125	-0.00251	1.11947	0.76924	-0.03170	0.87066
0.04431	-1.30946	1.86383	0.09257	-2.25241	0.49877	-0.00254	1.07545	0.77530	-0.03129	0.86985
0.04535	-1.40962	1.86522	0.09393	-2.23327	0.49913	-0.00259	1.03138	0.78128	-0.03099	0.86965

0.04642	-1.50303	1.86582	0.09499	-2.21498	0.50092	-0.00263	0.99044	0.78685	-0.03088	0.87070
0.04751	-1.60115	1.86658	0.09609	-2.19606	0.50076	-0.00266	0.94751	0.79302	-0.03069	0.87122
0.04863	-1.70039	1.86761	0.09722	-2.17710	0.49879	-0.00269	0.90503	0.79952	-0.03033	0.87058
0.04977	-1.78635	1.86839	0.09813	-2.16015	0.49703	-0.00272	0.86921	0.80527	-0.02984	0.86915
0.05094	-1.85471	1.86879	0.09861	-2.14607	0.49671	-0.00275	0.84086	0.80992	-0.02928	0.86708
0.05214	-1.92428	1.86873	0.09884	-2.13132	0.49592	-0.00278	0.81255	0.81468	-0.02876	0.86522
0.05337	-2.01041	1.86760	0.09910	-2.11277	0.49428	-0.00280	0.77910	0.82035	-0.02834	0.86395
0.05462	-2.10088	1.86510	0.09950	-2.09245	0.49436	-0.00284	0.74547	0.82603	-0.02810	0.86357
0.05591	-2.17094	1.86206	0.09970	-2.07521	0.49801	-0.00288	0.72034	0.83019	-0.02790	0.86342
0.05722	-2.22265	1.85853	0.09939	-2.06074	0.50435	-0.00292	0.70236	0.83295	-0.02746	0.86171
0.05857	-2.28089	1.85378	0.09879	-2.04426	0.51101	-0.00296	0.68205	0.83601	-0.02677	0.85848
0.05995	-2.35312	1.84756	0.09811	-2.02436	0.51683	-0.00301	0.65590	0.84014	-0.02595	0.85465
0.06136	-2.43081	1.84072	0.09747	-2.00313	0.52249	-0.00305	0.62749	0.84483	-0.02502	0.85008
0.06280	-2.48767	1.83386	0.09651	-1.98591	0.53207	-0.00310	0.60646	0.84791	-0.02404	0.84493
0.06428	-2.52729	1.82780	0.09544	-1.97256	0.54528	-0.00316	0.59263	0.84943	-0.02305	0.83961
0.06579	-2.54721	1.82227	0.09396	-1.96324	0.56030	-0.00321	0.58527	0.84952	-0.02190	0.83323
0.06734	-2.55719	1.81679	0.09197	-1.95556	0.57589	-0.00326	0.58093	0.84894	-0.02060	0.82622
0.06893	-2.56391	1.81057	0.08944	-1.94729	0.58945	-0.00331	0.57711	0.84831	-0.01932	0.81969
0.07055	-2.57668	1.80366	0.08672	-1.93705	0.59938	-0.00335	0.57013	0.84854	-0.01816	0.81406
0.07221	-2.60369	1.79582	0.08407	-1.92366	0.60705	-0.00338	0.55790	0.84999	-0.01731	0.81022
0.07391	-2.63991	1.78709	0.08129	-1.90810	0.61364	-0.00342	0.54287	0.85205	-0.01683	0.80855
0.07565	-2.67678	1.77788	0.07841	-1.89198	0.61932	-0.00345	0.52746	0.85429	-0.01656	0.80809
0.07743	-2.70906	1.76927	0.07557	-1.87725	0.62478	-0.00347	0.51277	0.85652	-0.01629	0.80779
0.07925	-2.73636	1.76165	0.07262	-1.86427	0.62797	-0.00349	0.49937	0.85871	-0.01585	0.80645
0.08111	-2.75836	1.75493	0.06942	-1.85266	0.62777	-0.00349	0.48875	0.86053	-0.01517	0.80342
0.08302	-2.77855	1.74827	0.06603	-1.84118	0.62533	-0.00349	0.47989	0.86206	-0.01433	0.79907
0.08498	-2.81045	1.74063	0.06268	-1.82714	0.62115	-0.00348	0.46669	0.86472	-0.01336	0.79398
0.08697	-2.86082	1.73110	0.05955	-1.80887	0.61644	-0.00348	0.44664	0.86914	-0.01240	0.78872
0.08902	-2.92682	1.71989	0.05686	-1.78665	0.61366	-0.00348	0.42217	0.87479	-0.01150	0.78371
0.09112	-2.98578	1.70883	0.05433	-1.76565	0.61457	-0.00350	0.40069	0.87974	-0.01075	0.78000
0.09326	-3.01308	1.69931	0.05126	-1.75136	0.61899	-0.00351	0.38946	0.88164	-0.01014	0.77742
0.09545	-3.00725	1.69075	0.04732	-1.74396	0.62705	-0.00353	0.38901	0.87984	-0.00953	0.77479
0.09770	-2.99639	1.68225	0.04311	-1.73793	0.63893	-0.00356	0.39177	0.87670	-0.00889	0.77168
0.10000	-3.00428	1.67386	0.03945	-1.72876	0.65221	-0.00359	0.39054	0.87483	-0.00810	0.76779
0.10235	-3.03167	1.66515	0.03642	-1.71562	0.66332	-0.00363	0.38391	0.87489	-0.00722	0.76383
0.10476	-3.06387	1.65616	0.03352	-1.70116	0.66891	-0.00365	0.37509	0.87600	-0.00641	0.76059
0.10723	-3.09333	1.64760	0.03051	-1.68751	0.67030	-0.00365	0.36667	0.87725	-0.00582	0.75867
0.10975	-3.12865	1.63935	0.02758	-1.67326	0.67129	-0.00366	0.35692	0.87903	-0.00548	0.75833
0.11233	-3.18820	1.63149	0.02521	-1.65504	0.67317	-0.00368	0.34148	0.88303	-0.00538	0.75956
0.11498	-3.26626	1.62384	0.02330	-1.63362	0.67713	-0.00370	0.32207	0.88882	-0.00539	0.76172
0.11768	-3.34197	1.61634	0.02120	-1.61307	0.68413	-0.00374	0.30416	0.89422	-0.00522	0.76280
0.12045	-3.40449	1.60891	0.01853	-1.59563	0.69251	-0.00378	0.28972	0.89824	-0.00468	0.76141
0.12328	-3.43852	1.60140	0.01486	-1.58352	0.70020	-0.00379	0.28088	0.89985	-0.00386	0.75799
0.12619	-3.45171	1.59382	0.01040	-1.57515	0.70729	-0.00380	0.27549	0.89989	-0.00290	0.75333
0.12916	-3.46402	1.58634	0.00594	-1.56725	0.71746	-0.00381	0.27025	0.89972	-0.00182	0.74743
0.13219	-3.48974	1.57960	0.00204	-1.55762	0.73136	-0.00384	0.26350	0.90030	-0.00068	0.74054
0.13531	-3.52292	1.57340	-0.00131	-1.54653	0.74573	-0.00388	0.25627	0.90136	0.00039	0.73376
0.13849	-3.54408	1.56727	-0.00444	-1.53729	0.76113	-0.00392	0.25252	0.90073	0.00126	0.72773
0.14175	-3.54808	1.56176	-0.00773	-1.53175	0.77665	-0.00396	0.25351	0.89776	0.00191	0.72251
0.14508	-3.54626	1.55628	-0.01124	-1.52718	0.78720	-0.00398	0.25588	0.89433	0.00237	0.71871
0.14850	-3.53733	1.55037	-0.01507	-1.52325	0.79407	-0.00398	0.25968	0.89031	0.00267	0.71615
0.15199	-3.51382	1.54466	-0.01935	-1.52230	0.80161	-0.00398	0.26736	0.88441	0.00279	0.71456
0.15557	-3.48508	1.53960	-0.02389	-1.52372	0.80897	-0.00397	0.27636	0.87791	0.00279	0.71336
0.15923	-3.47270	1.53421	-0.02820	-1.52274	0.81388	-0.00395	0.28101	0.87329	0.00305	0.71045
0.16298	-3.49190	1.52742	-0.03189	-1.51468	0.81641	-0.00394	0.27827	0.87187	0.00364	0.70557
0.16681	-3.52786	1.52084	-0.03532	-1.50361	0.81938	-0.00394	0.27249	0.87195	0.00439	0.69976
0.17074	-3.55357	1.51644	-0.03909	-1.49660	0.82346	-0.00394	0.26946	0.87107	0.00500	0.69492
0.17475	-3.56161	1.51446	-0.04329	-1.49530	0.82844	-0.00393	0.27070	0.86841	0.00522	0.69249
0.17887	-3.56289	1.51383	-0.04757	-1.49694	0.83536	-0.00391	0.27373	0.86486	0.00511	0.69224
0.18307	-3.57131	1.51192	-0.05176	-1.49657	0.84141	-0.00390	0.27404	0.86226	0.00494	0.69303
0.18738	-3.58311	1.50801	-0.05616	-1.49390	0.84417	-0.00388	0.27307	0.85994	0.00483	0.69364
0.19179	-3.58707	1.50384	-0.06092	-1.49249	0.84617	-0.00385	0.27503	0.85620	0.00469	0.69435
0.19631	-3.59209	1.49941	-0.06571	-1.49072	0.84958	-0.00383	0.27723	0.85221	0.00452	0.69523
0.20092	-3.61072	1.49374	-0.07043	-1.48502	0.85554	-0.00382	0.27631	0.84925	0.00454	0.69535
0.20565	-3.63694	1.48729	-0.07522	-1.47667	0.86487	-0.00384	0.27497	0.84617	0.00483	0.69428
0.21049	-3.66883	1.48171	-0.07961	-1.46763	0.87424	-0.00386	0.27447	0.84294	0.00542	0.69149
0.21544	-3.70657	1.47781	-0.08346	-1.45887	0.88165	-0.00387	0.27431	0.84009	0.00629	0.68670
0.22051	-3.75396	1.47481	-0.08677	-1.44944	0.88924	-0.00388	0.27241	0.83827	0.00729	0.68090
0.22570	-3.80859	1.47089	-0.08989	-1.43846	0.89591	-0.00388	0.26732	0.83769	0.00826	0.67545
0.23101	-3.84502	1.46606	-0.09372	-1.43038	0.90087	-0.00387	0.26507	0.83543	0.00898	0.67182
0.23645	-3.84776	1.46279	-0.09839	-1.43000	0.90506	-0.00384	0.27164	0.82913	0.00939	0.67021
0.24201	-3.83027	1.46162	-0.10317	-1.43519	0.90719	-0.00380	0.28473	0.82041	0.00973	0.66871
0.24771	-3.81226	1.46068	-0.10790	-1.44044	0.90720	-0.00375	0.29909	0.81161	0.01001	0.66768
0.25354	-3.80538	1.45837	-0.11259	-1.44207	0.90952	-0.00372	0.31146	0.80367	0.00972	0.67036
0.25950	-3.79976	1.45504	-0.11714	-1.44250	0.91850	-0.00371	0.32541	0.79490	0.00883	0.67673
0.26561	-3.78553	1.45161	-0.12151	-1.44432	0.92984	-0.00371	0.34470	0.78431	0.00802	0.68222
0.27186	-3.75903	1.44844	-0.12587	-1.44836	0.93619	-0.00369	0.37041	0.77215	0.00768	0.68452
0.27826	-3.73239	1.44577	-0.13004	-1.45272	0.93536	-0.00364	0.39762	0.76044	0.00777	0.68417
0.28480	-3.71820	1.44429	-0.13387	-1.45600	0.93268	-0.00359	0.42053	0.75085	0.00799	0.68360
0.29150	-3.70024	1.44445	-0.13775	-1.46239	0.93656	-0.00356	0.44464	0.74125	0.00791	0.68555
0.29836	-3.67317	1.44655	-0.14167	-1.47366	0.94937	-0.00354	0.47413	0.73048	0.00738	0.69005

0.30539	-3.66690	1.45155	-0.14471	-1.48492	0.96499	-0.00353	0.49862	0.72180	0.00659	0.69506
0.31257	-3.68432	1.45855	-0.14676	-1.49429	0.97596	-0.00351	0.51419	0.71617	0.00572	0.69963
0.31993	-3.68720	1.46442	-0.14901	-1.50542	0.98103	-0.00346	0.53492	0.70945	0.00482	0.70437
0.32745	-3.66572	1.46703	-0.15215	-1.51794	0.98244	-0.00339	0.56659	0.69977	0.00400	0.70938
0.33517	-3.64706	1.46773	-0.15576	-1.52796	0.98381	-0.00333	0.60066	0.68937	0.00342	0.71369
0.34304	-3.64001	1.46897	-0.15923	-1.53603	0.99094	-0.00330	0.63593	0.67908	0.00324	0.71566
0.35112	-3.61583	1.47178	-0.16255	-1.54886	1.00868	-0.00329	0.68705	0.66649	0.00356	0.71399
0.35938	-3.57656	1.47568	-0.16551	-1.56562	1.03333	-0.00331	0.75128	0.65272	0.00407	0.71050
0.36784	-3.56827	1.47883	-0.16781	-1.57566	1.05315	-0.00332	0.80075	0.64210	0.00445	0.70772
0.37649	-3.61582	1.47971	-0.16971	-1.57282	1.05947	-0.00332	0.81643	0.63657	0.00454	0.70690
0.38536	-3.70504	1.47900	-0.17176	-1.56022	1.05534	-0.00331	0.80466	0.63489	0.00409	0.70948
0.39442	-3.81285	1.47891	-0.17408	-1.54448	1.04977	-0.00330	0.78074	0.63512	0.00332	0.71420
0.40370	-3.91781	1.48074	-0.17653	-1.53172	1.04874	-0.00329	0.75997	0.63493	0.00292	0.71651
0.41321	-3.99454	1.48390	-0.17920	-1.52673	1.05339	-0.00329	0.75780	0.63158	0.00321	0.71455
0.42292	-4.03688	1.48724	-0.18213	-1.52945	1.06070	-0.00327	0.77680	0.62459	0.00390	0.71057
0.43288	-4.05756	1.49153	-0.18503	-1.53804	1.06916	-0.00325	0.81064	0.61550	0.00473	0.70671
0.44307	-4.06163	1.49799	-0.18771	-1.55247	1.08040	-0.00321	0.85835	0.60520	0.00541	0.70408
0.45349	-4.05821	1.50484	-0.19023	-1.56849	1.09301	-0.00318	0.91602	0.59435	0.00586	0.70228
0.46417	-4.07429	1.50930	-0.19248	-1.57728	1.10008	-0.00316	0.96602	0.58487	0.00622	0.70049
0.47508	-4.12512	1.51110	-0.19431	-1.57537	1.09862	-0.00313	0.99596	0.57799	0.00644	0.70001
0.48626	-4.20953	1.51151	-0.19581	-1.56448	1.09333	-0.00311	1.00425	0.57378	0.00632	0.70277
0.49771	-4.31974	1.51133	-0.19740	-1.54758	1.08914	-0.00312	0.99379	0.57169	0.00592	0.70829
0.50942	-4.43395	1.51139	-0.19934	-1.53057	1.08772	-0.00313	0.97867	0.56996	0.00548	0.71402
0.52140	-4.52206	1.51243	-0.20157	-1.52027	1.08930	-0.00313	0.98221	0.56590	0.00528	0.71755
0.53367	-4.57046	1.51398	-0.20401	-1.51859	1.09157	-0.00312	1.01599	0.55827	0.00529	0.71893
0.54624	-4.59350	1.51609	-0.20634	-1.52253	1.09214	-0.00308	1.07021	0.54882	0.00537	0.71967
0.55910	-4.60218	1.52015	-0.20828	-1.53137	1.09439	-0.00303	1.13890	0.53883	0.00545	0.72061
0.57225	-4.58841	1.52685	-0.21000	-1.54757	1.10292	-0.00300	1.23300	0.52744	0.00551	0.72185
0.58569	-4.54700	1.53465	-0.21190	-1.57052	1.11765	-0.00297	1.36121	0.51390	0.00558	0.72333
0.59948	-4.49137	1.54057	-0.21429	-1.59397	1.13472	-0.00295	1.51548	0.49897	0.00536	0.72681
0.61357	-4.44105	1.54318	-0.21717	-1.61216	1.15012	-0.00295	1.67831	0.48411	0.00465	0.73363
0.62802	-4.41062	1.54388	-0.22023	-1.62382	1.16229	-0.00295	1.83311	0.47065	0.00361	0.74237
0.64280	-4.42073	1.54484	-0.22292	-1.62738	1.17081	-0.00296	1.94748	0.46066	0.00249	0.75146
0.65794	-4.47875	1.54768	-0.22490	-1.62354	1.17647	-0.00298	2.00141	0.45505	0.00144	0.76009
0.67340	-4.56432	1.55296	-0.22641	-1.61743	1.18178	-0.00300	2.01468	0.45236	0.00074	0.76665
0.68927	-4.64551	1.55993	-0.22789	-1.61498	1.19022	-0.00302	2.02954	0.44980	0.00047	0.77075
0.70547	-4.71272	1.56692	-0.22942	-1.61639	1.20163	-0.00302	2.06261	0.44590	0.00041	0.77355
0.72207	-4.77614	1.57252	-0.23092	-1.61793	1.21117	-0.00302	2.10620	0.44081	0.00042	0.77600
0.73910	-4.83199	1.57639	-0.23241	-1.61962	1.21467	-0.00298	2.16530	0.43441	0.00050	0.77806
0.75649	-4.87060	1.57857	-0.23402	-1.62309	1.21300	-0.00292	2.25140	0.42637	0.00060	0.77978
0.77429	-4.89864	1.57901	-0.23591	-1.62664	1.21006	-0.00286	2.35621	0.41732	0.00066	0.78093
0.79246	-4.93790	1.57798	-0.23815	-1.62581	1.20781	-0.00282	2.44948	0.40884	0.00071	0.78059
0.81116	-4.99839	1.57632	-0.24066	-1.61945	1.20578	-0.00281	2.51907	0.40154	0.00088	0.77784
0.83022	-5.06721	1.57523	-0.24305	-1.61130	1.20273	-0.00280	2.58496	0.39481	0.00119	0.77316
0.84976	-5.14506	1.57568	-0.24498	-1.60237	1.19648	-0.00279	2.64794	0.38878	0.00150	0.76800
0.86972	-5.25138	1.57755	-0.24641	-1.58881	1.18537	-0.00279	2.67529	0.38454	0.00160	0.76416
0.89023	-5.39950	1.58006	-0.24760	-1.56739	1.17008	-0.00279	2.64351	0.38252	0.00134	0.76311
0.91116	-5.57657	1.58294	-0.24867	-1.54064	1.15431	-0.00280	2.56534	0.38219	0.00065	0.76599
0.93257	-5.75109	1.58669	-0.24965	-1.51591	1.14321	-0.00282	2.48415	0.38208	-0.00039	0.77272
0.95456	-5.88912	1.59173	-0.25062	-1.50120	1.13958	-0.00283	2.45070	0.38010	-0.00153	0.78147
0.97704	-5.96792	1.59780	-0.25176	-1.50126	1.14193	-0.00281	2.50585	0.37436	-0.00240	0.78939
1.00000	-5.98788	1.60376	-0.25329	-1.51445	1.14718	-0.00276	2.66101	0.36440	-0.00290	0.79549
1.02354	-5.97600	1.60837	-0.25533	-1.53310	1.15252	-0.00269	2.88189	0.35204	-0.00328	0.80163
1.04767	-5.97091	1.61145	-0.25774	-1.54842	1.15559	-0.00262	3.10352	0.34004	-0.00370	0.80908
1.07227	-6.00177	1.61367	-0.26023	-1.55501	1.15528	-0.00257	3.26717	0.33031	-0.00402	0.81665
1.09745	-6.06719	1.61598	-0.26261	-1.55436	1.15356	-0.00255	3.37198	0.32268	-0.00407	0.82267
1.12334	-6.14889	1.61899	-0.26487	-1.55074	1.15251	-0.00254	3.45294	0.31614	-0.00382	0.82681
1.14982	-6.22175	1.62299	-0.26712	-1.54935	1.15306	-0.00254	3.55681	0.30961	-0.00346	0.82998
1.17675	-6.26994	1.62804	-0.26940	-1.55343	1.15530	-0.00254	3.71304	0.30251	-0.00314	0.83296
1.20453	-6.30206	1.63375	-0.27180	-1.56108	1.15890	-0.00253	3.91047	0.29504	-0.00286	0.83558
1.23289	-6.33737	1.63928	-0.27428	-1.56759	1.16412	-0.00253	4.10906	0.28789	-0.00255	0.83714
1.26183	-6.39126	1.64385	-0.27683	-1.56915	1.17067	-0.00254	4.27247	0.28145	-0.00224	0.83827
1.29149	-6.46657	1.64717	-0.27942	-1.56510	1.17667	-0.00256	4.38681	0.27581	-0.00209	0.84034
1.32188	-6.56036	1.64933	-0.28203	-1.55622	1.17861	-0.00256	4.45320	0.27085	-0.00214	0.84405
1.35300	-6.66550	1.65071	-0.28458	-1.54443	1.17470	-0.00255	4.48860	0.26629	-0.00233	0.84914
1.38485	-6.76543	1.65179	-0.28706	-1.53366	1.16756	-0.00252	4.53740	0.26126	-0.00250	0.85454
1.41743	-6.84411	1.65305	-0.28950	-1.52765	1.16136	-0.00248	4.64342	0.25511	-0.00247	0.85913
1.45075	-6.90853	1.65493	-0.29186	-1.52533	1.15676	-0.00244	4.78518	0.24862	-0.00216	0.86261
1.48500	-6.98232	1.65756	-0.29408	-1.52205	1.15123	-0.00241	4.89139	0.24334	-0.00166	0.86568
1.51999	-7.08609	1.66070	-0.29612	-1.51337	1.14182	-0.00237	4.89953	0.24026	-0.00106	0.86880
1.55569	-7.22974	1.66398	-0.29813	-1.49676	1.12645	-0.00234	4.78972	0.23943	-0.00036	0.87173
1.59236	-7.41099	1.66711	-0.30032	-1.47224	1.10500	-0.00231	4.58329	0.24030	0.00044	0.87401
1.62973	-7.61087	1.66988	-0.30276	-1.44321	1.08044	-0.00229	4.33981	0.24178	0.00130	0.87583
1.66806	-7.80713	1.67229	-0.30546	-1.41418	1.05619	-0.00228	4.12312	0.24260	0.00209	0.87817
1.70736	-7.98442	1.67451	-0.30828	-1.38853	1.03449	-0.00227	3.97223	0.24189	0.00278	0.88156
1.74764	-8.13681	1.67666	-0.31109	-1.36782	1.01688	-0.00227	3.90268	0.23915	0.00336	0.88601
1.78859	-8.26310	1.67867	-0.31376	-1.35240	1.00478	-0.00228	3.91948	0.23407	0.00381	0.89149
1.83083	-8.36770	1.68042	-0.31623	-1.34165	0.99881	-0.00230	4.02560	0.22639	0.00413	0.89797
1.87371	-8.45389	1.68174	-0.31837	-1.33477	0.99871	-0.00233	4.21851	0.21631	0.00432	0.90497
1.91791	-8.52846	1.68269	-0.32017	-1.33071	1.00328	-0.00236	4.49782	0.20404	0.00444	0.91208
1.96309	-8.59400	1.68352	-0.32155	-1.32928	1.01148	-0.00239	4.85455	0.19037	0.00456	0.91862

2.00924	-8.65282	1.68471	-0.32250	-1.33059	1.02279	-0.00242	5.27118	0.17636	0.00476	0.92403
2.05634	-8.70550	1.68658	-0.32309	-1.33477	1.03712	-0.00245	5.72741	0.16297	0.00507	0.92821
2.10482	-8.74977	1.68922	-0.32337	-1.34229	1.05454	-0.00248	6.21540	0.15071	0.00542	0.93179
2.15424	-8.77904	1.69241	-0.32348	-1.35386	1.07497	-0.00250	6.73764	0.13982	0.00568	0.93556
2.20507	-8.78775	1.69584	-0.32357	-1.37016	1.09863	-0.00252	7.31914	0.12995	0.00581	0.93991
2.25683	-8.77592	1.69923	-0.32380	-1.39050	1.12419	-0.00254	7.96447	0.12095	0.00588	0.94452
2.31000	-8.75367	1.70246	-0.32427	-1.41263	1.14875	-0.00254	8.65132	0.11277	0.00596	0.94883
2.36463	-8.73947	1.70548	-0.32500	-1.43255	1.16821	-0.00254	9.31706	0.10554	0.00609	0.95232
2.42014	-8.74635	1.70827	-0.32597	-1.44739	1.18023	-0.00252	9.90474	0.09931	0.00625	0.95499
2.47709	-8.77731	1.71101	-0.32714	-1.45686	1.18529	-0.00249	10.40141	0.09394	0.00638	0.95729
2.53550	-8.83248	1.71405	-0.32846	-1.46120	1.18487	-0.00246	10.79582	0.08945	0.00650	0.95936
2.59471	-8.90489	1.71766	-0.32988	-1.46197	1.18152	-0.00244	11.09468	0.08592	0.00660	0.96143
2.65604	-8.98744	1.72214	-0.33144	-1.46106	1.17769	-0.00241	11.32568	0.08331	0.00666	0.96411
2.71887	-9.07551	1.72741	-0.33319	-1.45909	1.17419	-0.00239	11.49842	0.08153	0.00667	0.96777
2.78242	-9.16764	1.73329	-0.33514	-1.45599	1.17090	-0.00238	11.61561	0.08045	0.00666	0.97247
2.84819	-9.26578	1.73985	-0.33734	-1.45166	1.16747	-0.00236	11.68219	0.07992	0.00666	0.97839
2.91545	-9.36795	1.74702	-0.33978	-1.44627	1.16387	-0.00235	11.70133	0.07985	0.00670	0.98547
2.98329	-9.47010	1.75463	-0.34237	-1.44053	1.16045	-0.00234	11.68716	0.08014	0.00680	0.99337
3.05344	-9.57464	1.76286	-0.34519	-1.43427	1.15707	-0.00233	11.64240	0.08072	0.00697	1.00191
3.12598	-9.68163	1.77165	-0.34820	-1.42757	1.15367	-0.00233	11.56957	0.08154	0.00721	1.01070
3.19898	-9.79088	1.78069	-0.35130	-1.41997	1.14978	-0.00232	11.46203	0.08256	0.00749	1.01919
3.27439	-9.90710	1.79020	-0.35455	-1.41100	1.14493	-0.00231	11.31144	0.08383	0.00781	1.02723
3.35121	-10.03150	1.79995	-0.35785	-1.40014	1.13854	-0.00230	11.11016	0.08535	0.00813	1.03462
3.43053	-10.16684	1.81012	-0.36121	-1.38717	1.13023	-0.00229	10.85242	0.08720	0.00843	1.04161
3.51124	-10.31275	1.82047	-0.36455	-1.37187	1.11969	-0.00227	10.53713	0.08936	0.00867	1.04842
3.59324	-10.46907	1.83101	-0.36779	-1.35451	1.10693	-0.00226	10.17043	0.09189	0.00886	1.05514
3.67782	-10.63531	1.84179	-0.37101	-1.33516	1.09214	-0.00224	9.75964	0.09470	0.00895	1.06239
3.76506	-10.80904	1.85279	-0.37403	-1.31485	1.07589	-0.00222	9.32978	0.09774	0.00895	1.07012
3.85356	-10.98379	1.86380	-0.37703	-1.29403	1.05905	-0.00220	8.89128	0.10090	0.00884	1.07865
3.94477	-11.15616	1.87476	-0.37966	-1.27450	1.04289	-0.00218	8.49282	0.10384	0.00862	1.08742
4.03714	-11.32526	1.88569	-0.38226	-1.25536	1.02712	-0.00216	8.10775	0.10673	0.00832	1.09649
4.13223	-11.49021	1.89630	-0.38444	-1.23761	1.01250	-0.00214	7.77290	0.10917	0.00792	1.10564
4.23012	-11.65420	1.90690	-0.38633	-1.22062	0.99855	-0.00213	7.47182	0.11126	0.00747	1.11434
4.32900	-11.81361	1.91707	-0.38806	-1.20402	0.98493	-0.00212	7.19170	0.11313	0.00700	1.12266
4.43066	-11.97231	1.92675	-0.38907	-1.18874	0.97175	-0.00211	6.97223	0.11432	0.00650	1.13011
4.53515	-12.13178	1.93649	-0.39004	-1.17315	0.95821	-0.00210	6.75322	0.11553	0.00608	1.13698
4.64253	-12.28882	1.94575	-0.39058	-1.15846	0.94500	-0.00209	6.55703	0.11670	0.00569	1.14347
4.75059	-12.44422	1.95456	-0.39036	-1.14527	0.93228	-0.00208	6.40215	0.11767	0.00537	1.14898
4.86145	-12.59969	1.96357	-0.39028	-1.13166	0.91935	-0.00207	6.22398	0.11918	0.00520	1.15409
4.97760	-12.75398	1.97221	-0.38958	-1.11957	0.90754	-0.00206	6.06919	0.12087	0.00509	1.15886
5.09424	-12.90553	1.98052	-0.38810	-1.10937	0.89705	-0.00205	5.94408	0.12273	0.00510	1.16267
5.21376	-13.05477	1.98924	-0.38684	-1.09917	0.88706	-0.00204	5.79768	0.12515	0.00527	1.16627
5.33618	-13.19310	1.99719	-0.38507	-1.09169	0.87961	-0.00203	5.70090	0.12715	0.00548	1.16967
5.46150	-13.32421	2.00455	-0.38228	-1.08755	0.87498	-0.00202	5.66950	0.12863	0.00576	1.17237
5.58971	-13.45268	2.01258	-0.37972	-1.08372	0.87122	-0.00201	5.62718	0.13035	0.00611	1.17528
5.72082	-13.57246	2.02023	-0.37722	-1.08110	0.86872	-0.00200	5.60654	0.13160	0.00643	1.17877
5.85823	-13.67905	2.02634	-0.37341	-1.08316	0.86955	-0.00199	5.69066	0.13146	0.00670	1.18204
5.99520	-13.77890	2.03283	-0.36954	-1.08655	0.87165	-0.00198	5.79090	0.13114	0.00693	1.18564
6.13497	-13.88006	2.04036	-0.36628	-1.08900	0.87323	-0.00197	5.86485	0.13099	0.00708	1.19028
6.28141	-13.97397	2.04640	-0.36240	-1.09305	0.87524	-0.00195	5.98816	0.13004	0.00711	1.19521
6.42674	-14.05435	2.05084	-0.35756	-1.10001	0.87857	-0.00194	6.18141	0.12823	0.00703	1.19979
6.57895	-14.14170	2.05696	-0.35289	-1.10648	0.88141	-0.00192	6.36000	0.12662	0.00684	1.20539
6.73401	-14.23772	2.06476	-0.34899	-1.11080	0.88292	-0.00190	6.48850	0.12554	0.00654	1.21194
6.89180	-14.32261	2.07001	-0.34451	-1.11609	0.88495	-0.00188	6.64456	0.12422	0.00621	1.21820
7.05716	-14.39896	2.07370	-0.33887	-1.12386	0.88835	-0.00187	6.85626	0.12251	0.00577	1.22448
7.22022	-14.48287	2.07945	-0.33377	-1.13009	0.89101	-0.00185	7.02380	0.12136	0.00523	1.23118
7.39098	-14.58539	2.08822	-0.32932	-1.13388	0.89232	-0.00184	7.13103	0.12083	0.00464	1.23848
7.56430	-14.68250	2.09536	-0.32507	-1.13692	0.89339	-0.00183	7.22151	0.12049	0.00413	1.24514
7.73994	-14.75529	2.09784	-0.31955	-1.14276	0.89661	-0.00182	7.36952	0.11985	0.00364	1.25088
7.92393	-14.84162	2.10262	-0.31393	-1.14776	0.89952	-0.00181	7.48841	0.11962	0.00305	1.25683
8.11030	-14.94338	2.11017	-0.30878	-1.15078	0.90129	-0.00181	7.55633	0.11988	0.00245	1.26266
8.29876	-15.06642	2.12139	-0.30457	-1.15087	0.90116	-0.00180	7.55682	0.12067	0.00190	1.26824
8.49618	-15.16440	2.12761	-0.30011	-1.15262	0.90198	-0.00179	7.60155	0.12097	0.00149	1.27302
8.69565	-15.23013	2.12832	-0.29454	-1.15765	0.90502	-0.00179	7.71365	0.12079	0.00111	1.27732
8.90472	-15.32103	2.13323	-0.28905	-1.16083	0.90695	-0.00178	7.77549	0.12114	0.00067	1.28196
9.11577	-15.42363	2.14035	-0.28384	-1.16274	0.90805	-0.00178	7.80480	0.12177	0.00027	1.28656
9.32836	-15.55831	2.15329	-0.27926	-1.16172	0.90723	-0.00177	7.76460	0.12303	-0.00012	1.29128
9.54198	-15.68013	2.16387	-0.27544	-1.16041	0.90605	-0.00176	7.72971	0.12402	-0.00039	1.29573
9.76563	-15.73725	2.16271	-0.27070	-1.16415	0.90815	-0.00176	7.81438	0.12382	-0.00059	1.30020
10.00000	-15.80549	2.16327	-0.26533	-1.16775	0.91023	-0.00176	7.88644	0.12386	-0.00082	1.30551

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Atkinson and Boore (1995) model
Median stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 6 - 15 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-4.89339	2.44520	0.06686	-2.38875	1.78472	-0.00221	3.44651	0.38548	-0.05097	0.57251
PGV	3.06018	1.44880	-0.06058	-2.28837	1.58754	-0.00376	3.55075	0.40403	-0.04073	0.58539
PGA	-0.82888	1.47795	-0.00178	-2.09168	1.19037	-0.00447	1.42491	0.59674	-0.01975	0.73870
0.01000	-0.54832	1.49463	0.00192	-2.15060	1.16085	-0.00439	1.54535	0.59231	0.00884	0.65950
0.01024	-0.53097	1.49615	0.00236	-2.15465	1.15797	-0.00437	1.54946	0.59256	0.00898	0.65971
0.01048	-0.51093	1.49771	0.00281	-2.15921	1.15499	-0.00436	1.55475	0.59273	0.00910	0.65997
0.01072	-0.48771	1.49935	0.00327	-2.16439	1.15184	-0.00435	1.56150	0.59282	0.00921	0.66029
0.01097	-0.46117	1.50109	0.00376	-2.17022	1.14847	-0.00433	1.56973	0.59282	0.00931	0.66067
0.01123	-0.43134	1.50295	0.00427	-2.17672	1.14490	-0.00431	1.57937	0.59276	0.00941	0.66110
0.01150	-0.39833	1.50493	0.00483	-2.18386	1.14114	-0.00429	1.59026	0.59264	0.00950	0.66159
0.01177	-0.36233	1.50703	0.00541	-2.19159	1.13715	-0.00427	1.60216	0.59249	0.00958	0.66218
0.01205	-0.32265	1.50925	0.00602	-2.20004	1.13284	-0.00425	1.61542	0.59229	0.00965	0.66285
0.01233	-0.27726	1.51164	0.00665	-2.20959	1.12820	-0.00423	1.63137	0.59195	0.00972	0.66359
0.01262	-0.22422	1.51423	0.00732	-2.22067	1.12321	-0.00420	1.65122	0.59141	0.00980	0.66440
0.01292	-0.16429	1.51707	0.00803	-2.23316	1.11780	-0.00417	1.67420	0.59072	0.00987	0.66529
0.01322	-0.10040	1.52014	0.00880	-2.24651	1.11196	-0.00414	1.69817	0.59006	0.00994	0.66623
0.01353	-0.03613	1.52334	0.00966	-2.25992	1.10549	-0.00410	1.72080	0.58957	0.01005	0.66714
0.01385	0.02615	1.52653	0.01056	-2.27272	1.09801	-0.00407	1.74076	0.58934	0.01019	0.66792
0.01417	0.08754	1.52969	0.01146	-2.28505	1.08934	-0.00403	1.75884	0.58931	0.01038	0.66857
0.01451	0.15308	1.53294	0.01230	-2.29796	1.07949	-0.00399	1.77831	0.58928	0.01060	0.66925
0.01485	0.22642	1.53642	0.01310	-2.31224	1.06840	-0.00395	1.80147	0.58912	0.01082	0.67016
0.01520	0.30564	1.54018	0.01391	-2.32756	1.05615	-0.00390	1.82696	0.58894	0.01104	0.67134
0.01556	0.38628	1.54415	0.01475	-2.34305	1.04298	-0.00386	1.85179	0.58891	0.01130	0.67260
0.01592	0.46842	1.54825	0.01560	-2.35863	1.02906	-0.00381	1.87641	0.58899	0.01162	0.67370
0.01630	0.55778	1.55246	0.01644	-2.37528	1.01425	-0.00376	1.90501	0.58890	0.01201	0.67467
0.01668	0.65190	1.55678	0.01728	-2.39252	0.99827	-0.00370	1.93539	0.58882	0.01244	0.67567
0.01707	0.73390	1.56107	0.01820	-2.40718	0.98073	-0.00365	1.95518	0.58950	0.01287	0.67683
0.01748	0.78702	1.56517	0.01934	-2.41600	0.96108	-0.00361	1.95290	0.59162	0.01332	0.67803
0.01789	0.80847	1.56905	0.02071	-2.41846	0.93938	-0.00358	1.92803	0.59521	0.01382	0.67902
0.01831	0.80929	1.57274	0.02220	-2.41679	0.91691	-0.00355	1.88981	0.59966	0.01441	0.67953
0.01874	0.80820	1.57627	0.02351	-2.41469	0.89544	-0.00352	1.85195	0.60404	0.01509	0.67950
0.01918	0.81954	1.57951	0.02448	-2.41471	0.87611	-0.00350	1.82462	0.60758	0.01580	0.67920
0.01963	0.84698	1.58235	0.02516	-2.41731	0.85917	-0.00348	1.81085	0.61007	0.01651	0.67894
0.02009	0.88576	1.58492	0.02571	-2.42163	0.84402	-0.00346	1.80758	0.61173	0.01723	0.67849
0.02057	0.92688	1.58741	0.02622	-2.42620	0.82933	-0.00344	1.80823	0.61309	0.01804	0.67730
0.02105	0.96049	1.58986	0.02673	-2.42937	0.81379	-0.00342	1.80554	0.61467	0.01902	0.67474
0.02154	0.97789	1.59218	0.02721	-2.42960	0.79721	-0.00340	1.79354	0.61686	0.02020	0.67048
0.02205	0.97428	1.59428	0.02759	-2.42592	0.78045	-0.00339	1.76966	0.61981	0.02152	0.66510
0.02257	0.94766	1.59597	0.02793	-2.41766	0.76422	-0.00339	1.73372	0.62355	0.02277	0.65986
0.02310	0.89147	1.59716	0.02844	-2.40341	0.74840	-0.00340	1.68262	0.62837	0.02388	0.65555
0.02364	0.79749	1.59787	0.02933	-2.38175	0.73258	-0.00342	1.61234	0.63470	0.02486	0.65207
0.02420	0.66505	1.59815	0.03067	-2.35270	0.71691	-0.00346	1.52424	0.64263	0.02581	0.64884
0.02477	0.50464	1.59804	0.03236	-2.31834	0.70258	-0.00351	1.42640	0.65169	0.02685	0.64510
0.02535	0.33982	1.59768	0.03406	-2.28320	0.69103	-0.00357	1.33266	0.66079	0.02805	0.64011
0.02595	0.19859	1.59724	0.03537	-2.25260	0.68312	-0.00363	1.25672	0.66856	0.02938	0.63377
0.02656	0.09502	1.59684	0.03605	-2.22939	0.67875	-0.00369	1.20301	0.67431	0.03075	0.62646
0.02719	0.02369	1.59639	0.03605	-2.21265	0.67704	-0.00373	1.16583	0.67835	0.03200	0.61928
0.02783	-0.03312	1.59537	0.03554	-2.19869	0.67699	-0.00377	1.13473	0.68163	0.03291	0.61389
0.02848	-0.08928	1.59338	0.03482	-2.18452	0.67899	-0.00382	1.10318	0.68478	0.03329	0.61173
0.02915	-0.14694	1.59060	0.03416	-2.16979	0.68477	-0.00387	1.07157	0.68773	0.03316	0.61277
0.02984	-0.20662	1.58741	0.03369	-2.15474	0.69522	-0.00393	1.04064	0.69043	0.03282	0.61520
0.03054	-0.26890	1.58391	0.03343	-2.13923	0.70878	-0.00401	1.01015	0.69298	0.03262	0.61682
0.03126	-0.32887	1.58004	0.03329	-2.12377	0.72194	-0.00408	0.98228	0.69526	0.03266	0.61687
0.03199	-0.37844	1.57601	0.03320	-2.10956	0.73181	-0.00414	0.96121	0.69692	0.03285	0.61600
0.03275	-0.41223	1.57234	0.03309	-2.09782	0.73776	-0.00419	0.95003	0.69761	0.03309	0.61483
0.03352	-0.42958	1.56944	0.03290	-2.08912	0.74095	-0.00423	0.94932	0.69722	0.03339	0.61344
0.03430	-0.43244	1.56742	0.03250	-2.08349	0.74322	-0.00426	0.95788	0.69580	0.03376	0.61151
0.03511	-0.42428	1.56616	0.03177	-2.08049	0.74627	-0.00429	0.97345	0.69354	0.03426	0.60854
0.03594	-0.41279	1.56519	0.03069	-2.07853	0.75099	-0.00433	0.99155	0.69092	0.03485	0.60470
0.03678	-0.41057	1.56415	0.02942	-2.07503	0.75634	-0.00436	1.00525	0.68880	0.03538	0.60104
0.03765	-0.42836	1.56314	0.02817	-2.06820	0.76016	-0.00440	1.00828	0.68802	0.03576	0.59828
0.03854	-0.47164	1.56240	0.02709	-2.05749	0.76180	-0.00443	0.99702	0.68905	0.03603	0.59627
0.03944	-0.54264	1.56172	0.02632	-2.04250	0.76233	-0.00446	0.97013	0.69204	0.03625	0.59470
0.04037	-0.64132	1.56051	0.02603	-2.02257	0.76317	-0.00449	0.92879	0.69691	0.03638	0.59385
0.04132	-0.76476	1.55833	0.02634	-1.99743	0.76561	-0.00454	0.87643	0.70338	0.03627	0.59465
0.04229	-0.90447	1.55508	0.02721	-1.96827	0.77086	-0.00461	0.81857	0.71095	0.03581	0.59770
0.04329	-1.04762	1.55104	0.02841	-1.93758	0.77951	-0.00469	0.76164	0.71884	0.03507	0.60256
0.04431	-1.17896	1.54668	0.02963	-1.90864	0.79133	-0.00478	0.71194	0.72605	0.03418	0.60832
0.04535	-1.28457	1.54244	0.03049	-1.88454	0.80573	-0.00487	0.67423	0.73158	0.03326	0.61412

0.04642	-1.35751	1.53848	0.03073	-1.86691	0.82250	-0.00495	0.64997	0.73478	0.03240	0.61926
0.04751	-1.39629	1.53452	0.03023	-1.85589	0.84140	-0.00502	0.63869	0.73542	0.03153	0.62398
0.04863	-1.40098	1.53009	0.02891	-1.85088	0.86181	-0.00509	0.63988	0.73342	0.03055	0.62908
0.04977	-1.37507	1.52476	0.02680	-1.85063	0.88291	-0.00514	0.65237	0.72905	0.02939	0.63495
0.05094	-1.32518	1.51853	0.02399	-1.85381	0.90408	-0.00519	0.67433	0.72279	0.02811	0.64136
0.05214	-1.25857	1.51192	0.02071	-1.85957	0.92501	-0.00523	0.70413	0.71523	0.02681	0.64780
0.05337	-1.18399	1.50563	0.01724	-1.86708	0.94490	-0.00526	0.73938	0.70702	0.02566	0.65327
0.05462	-1.11232	1.49981	0.01379	-1.87462	0.96224	-0.00529	0.77582	0.69903	0.02483	0.65678
0.05591	-1.05450	1.49398	0.01056	-1.87978	0.97595	-0.00530	0.80816	0.69198	0.02436	0.65817
0.05722	-1.01760	1.48773	0.00774	-1.88083	0.98631	-0.00531	0.83262	0.68629	0.02414	0.65812
0.05857	-1.00266	1.48103	0.00541	-1.87749	0.99479	-0.00532	0.84836	0.68194	0.02395	0.65797
0.05995	-1.00848	1.47412	0.00356	-1.87007	1.00250	-0.00534	0.85543	0.67888	0.02363	0.65890
0.06136	-1.03777	1.46743	0.00209	-1.85848	1.00900	-0.00536	0.85167	0.67747	0.02317	0.66095
0.06280	-1.09472	1.46147	0.00091	-1.84257	1.01287	-0.00538	0.83418	0.67826	0.02271	0.66309
0.06428	-1.17785	1.45653	-0.00008	-1.82307	1.01371	-0.00539	0.80340	0.68132	0.02240	0.66431
0.06579	-1.28128	1.45235	-0.00094	-1.80097	1.01280	-0.00541	0.76263	0.68626	0.02222	0.66462
0.06734	-1.39827	1.44823	-0.00170	-1.77670	1.01155	-0.00542	0.71580	0.69253	0.02200	0.66523
0.06893	-1.52155	1.44338	-0.00247	-1.75068	1.01016	-0.00544	0.66660	0.69963	0.02158	0.66722
0.07055	-1.64349	1.43731	-0.00342	-1.72368	1.00799	-0.00546	0.61827	0.70704	0.02098	0.67056
0.07221	-1.75581	1.42998	-0.00473	-1.69712	1.00530	-0.00547	0.57418	0.71412	0.02032	0.67443
0.07391	-1.85201	1.42181	-0.00644	-1.67252	1.00309	-0.00548	0.53698	0.72021	0.01963	0.67846
0.07565	-1.92835	1.41340	-0.00845	-1.65114	1.00193	-0.00548	0.50813	0.72481	0.01883	0.68331
0.07743	-1.98610	1.40523	-0.01057	-1.63323	1.00175	-0.00548	0.48706	0.72789	0.01780	0.68962
0.07925	-2.02948	1.39767	-0.01263	-1.61842	1.00238	-0.00548	0.47226	0.72965	0.01660	0.69695
0.08111	-2.06183	1.39099	-0.01465	-1.60646	1.00394	-0.00548	0.46248	0.73032	0.01546	0.70377
0.08302	-2.08466	1.38526	-0.01672	-1.59736	1.00625	-0.00547	0.45703	0.72995	0.01457	0.70868
0.08498	-2.10042	1.38049	-0.01884	-1.59080	1.00890	-0.00546	0.45486	0.72876	0.01401	0.71118
0.08697	-2.11172	1.37667	-0.02096	-1.58637	1.01239	-0.00545	0.45515	0.72694	0.01385	0.71117
0.08902	-2.11922	1.37368	-0.02306	-1.58388	1.01773	-0.00543	0.45775	0.72447	0.01413	0.70857
0.09112	-2.12212	1.37108	-0.02518	-1.58304	1.02533	-0.00541	0.46276	0.72125	0.01478	0.70408
0.09326	-2.12029	1.36832	-0.02737	-1.58319	1.03462	-0.00540	0.47006	0.71730	0.01558	0.69908
0.09545	-2.11589	1.36521	-0.02957	-1.58347	1.04477	-0.00538	0.47900	0.71285	0.01625	0.69531
0.09770	-2.11016	1.36199	-0.03168	-1.58367	1.05537	-0.00536	0.48957	0.70805	0.01661	0.69399
0.10000	-2.10408	1.35910	-0.03369	-1.58387	1.06628	-0.00534	0.50189	0.70303	0.01665	0.69518
0.10235	-2.09734	1.35706	-0.03562	-1.58462	1.07726	-0.00533	0.51647	0.69781	0.01655	0.69757
0.10476	-2.09027	1.35635	-0.03750	-1.58640	1.08804	-0.00532	0.53337	0.69249	0.01657	0.69949
0.10723	-2.08473	1.35722	-0.03932	-1.58918	1.09876	-0.00531	0.55190	0.68731	0.01685	0.69985
0.10975	-2.08177	1.35947	-0.04106	-1.59263	1.10949	-0.00531	0.57134	0.68239	0.01735	0.69890
0.11233	-2.08112	1.36258	-0.04275	-1.59629	1.12008	-0.00531	0.59130	0.67772	0.01790	0.69768
0.11498	-2.08336	1.36591	-0.04440	-1.59941	1.13022	-0.00531	0.61082	0.67340	0.01835	0.69718
0.11768	-2.08628	1.36902	-0.04608	-1.60194	1.14042	-0.00532	0.63037	0.66921	0.01861	0.69799
0.12045	-2.08714	1.37167	-0.04786	-1.60420	1.15134	-0.00533	0.65107	0.66487	0.01865	0.70017
0.12328	-2.08291	1.37399	-0.04973	-1.60695	1.16366	-0.00535	0.67460	0.66007	0.01848	0.70364
0.12619	-2.07256	1.37608	-0.05163	-1.61054	1.17743	-0.00537	0.70189	0.65471	0.01808	0.70837
0.12916	-2.05629	1.37803	-0.05350	-1.61510	1.19264	-0.00540	0.73319	0.64883	0.01744	0.71438
0.13219	-2.03376	1.37996	-0.05533	-1.62086	1.20936	-0.00543	0.76908	0.64241	0.01659	0.72142
0.13531	-2.00725	1.38196	-0.05710	-1.62755	1.22678	-0.00546	0.80838	0.63574	0.01565	0.72869
0.13849	-1.97711	1.38404	-0.05883	-1.63524	1.24415	-0.00548	0.85080	0.62891	0.01473	0.73547
0.14175	-1.94355	1.38602	-0.06046	-1.64374	1.26137	-0.00550	0.89636	0.62191	0.01383	0.74189
0.14508	-1.90620	1.38779	-0.06202	-1.65305	1.27857	-0.00552	0.94539	0.61470	0.01293	0.74806
0.14850	-1.86243	1.38962	-0.06364	-1.66404	1.29524	-0.00553	0.99948	0.60718	0.01217	0.75317
0.15199	-1.81413	1.39110	-0.06537	-1.67594	1.31044	-0.00553	1.05732	0.59948	0.01147	0.75776
0.15557	-1.76578	1.39180	-0.06715	-1.68736	1.32430	-0.00552	1.11620	0.59189	0.01079	0.76219
0.15923	-1.71968	1.39181	-0.06905	-1.69796	1.33625	-0.00550	1.17408	0.58460	0.01018	0.76603
0.16298	-1.67505	1.39171	-0.07109	-1.70853	1.34643	-0.00548	1.23131	0.57763	0.00972	0.76901
0.16681	-1.63951	1.39154	-0.07321	-1.71768	1.35431	-0.00544	1.28176	0.57154	0.00941	0.77095
0.17074	-1.61954	1.39101	-0.07532	-1.72369	1.35977	-0.00541	1.32010	0.56666	0.00910	0.77290
0.17475	-1.62172	1.39016	-0.07729	-1.72530	1.36281	-0.00538	1.34103	0.56339	0.00883	0.77471
0.17887	-1.64105	1.38974	-0.07921	-1.72431	1.36365	-0.00535	1.34819	0.56141	0.00870	0.77554
0.18307	-1.68280	1.38899	-0.08110	-1.71906	1.36031	-0.00531	1.33602	0.56106	0.00859	0.77632
0.18738	-1.74514	1.38708	-0.08307	-1.70914	1.35221	-0.00526	1.30529	0.56214	0.00829	0.77847
0.19179	-1.82333	1.38515	-0.08495	-1.69642	1.34232	-0.00522	1.26265	0.56432	0.00795	0.78077
0.19631	-1.91296	1.38320	-0.08672	-1.68152	1.33316	-0.00519	1.21314	0.56717	0.00759	0.78299
0.20092	-2.00331	1.38169	-0.08854	-1.66741	1.32343	-0.00516	1.16382	0.57013	0.00721	0.78510
0.20565	-2.09144	1.38038	-0.09046	-1.65444	1.31245	-0.00512	1.11678	0.57294	0.00673	0.78769
0.21049	-2.18115	1.37887	-0.09228	-1.64137	1.30104	-0.00509	1.07006	0.57572	0.00611	0.79115
0.21544	-2.26259	1.37798	-0.09423	-1.63101	1.29067	-0.00504	1.03094	0.57776	0.00537	0.79537
0.22051	-2.33976	1.37761	-0.09622	-1.62240	1.28191	-0.00501	0.99738	0.57920	0.00460	0.79983
0.22570	-2.41016	1.37814	-0.09822	-1.61642	1.27396	-0.00497	0.97160	0.57981	0.00394	0.80353
0.23101	-2.47661	1.37812	-0.10028	-1.61099	1.26555	-0.00492	0.95096	0.57956	0.00295	0.80931
0.23645	-2.53101	1.37804	-0.10272	-1.60801	1.26004	-0.00488	0.94176	0.57768	0.00188	0.81560
0.24201	-2.57232	1.37772	-0.10564	-1.60750	1.25720	-0.00484	0.94434	0.57407	0.00086	0.82174
0.24771	-2.60423	1.37749	-0.10883	-1.60923	1.25547	-0.00480	0.95669	0.56907	-0.00020	0.82808
0.25354	-2.62644	1.37779	-0.11227	-1.61364	1.25635	-0.00476	0.98005	0.56267	-0.00112	0.83342
0.25950	-2.63733	1.37853	-0.11603	-1.62106	1.26026	-0.00472	1.01595	0.55475	-0.00186	0.83751
0.26561	-2.64476	1.37891	-0.11990	-1.62910	1.26563	-0.00468	1.05911	0.54592	-0.00270	0.84235
0.27186	-2.65259	1.37938	-0.12363	-1.63745	1.27077	-0.00464	1.10758	0.53662	-0.00348	0.84669
0.27826	-2.65785	1.38092	-0.12728	-1.64766	1.27799	-0.00461	1.16458	0.52680	-0.00397	0.84901
0.28480	-2.66372	1.38243	-0.13088	-1.65786	1.28672	-0.00458	1.22720	0.51664	-0.00439	0.85082
0.29150	-2.67158	1.38395	-0.13436	-1.66793	1.29545	-0.00455	1.29427	0.50631	-0.00480	0.85248
0.29836	-2.67926	1.38615	-0.13764	-1.67906	1.30417	-0.00452	1.36800	0.49584	-0.00511	0.85320

0.30539	-2.68662	1.38765	-0.14091	-1.68965	1.31291	-0.00449	1.44878	0.48496	-0.00569	0.85564
0.31257	-2.69572	1.38934	-0.14401	-1.70003	1.32408	-0.00447	1.53612	0.47397	-0.00638	0.85843
0.31993	-2.69951	1.39220	-0.14708	-1.71307	1.33556	-0.00444	1.63533	0.46281	-0.00660	0.85801
0.32745	-2.70305	1.39553	-0.15012	-1.72684	1.34725	-0.00441	1.74231	0.45166	-0.00647	0.85524
0.33517	-2.71184	1.39865	-0.15313	-1.73956	1.35746	-0.00438	1.85142	0.44079	-0.00618	0.85091
0.34304	-2.72877	1.40187	-0.15607	-1.75075	1.36791	-0.00436	1.95948	0.43042	-0.00564	0.84441
0.35112	-2.75617	1.40510	-0.15894	-1.75984	1.37833	-0.00434	2.06432	0.42055	-0.00489	0.83627
0.35938	-2.78965	1.40803	-0.16184	-1.76746	1.38648	-0.00432	2.16747	0.41107	-0.00398	0.82676
0.36784	-2.82879	1.41056	-0.16468	-1.77369	1.39283	-0.00429	2.27053	0.40176	-0.00302	0.81663
0.37649	-2.87061	1.41334	-0.16744	-1.77973	1.39799	-0.00426	2.37649	0.39263	-0.00193	0.80556
0.38536	-2.91655	1.41584	-0.17009	-1.78465	1.40294	-0.00423	2.48324	0.38368	-0.00089	0.79472
0.39442	-2.96633	1.41811	-0.17253	-1.78856	1.40724	-0.00420	2.59150	0.37487	0.00005	0.78433
0.40370	-3.01741	1.42040	-0.17478	-1.79228	1.41144	-0.00417	2.70566	0.36603	0.00094	0.77417
0.41321	-3.06756	1.42261	-0.17685	-1.79619	1.41550	-0.00414	2.82767	0.35713	0.00185	0.76389
0.42292	-3.11321	1.42470	-0.17880	-1.80092	1.42034	-0.00411	2.96222	0.34806	0.00275	0.75394
0.43288	-3.15566	1.42702	-0.18057	-1.80655	1.42620	-0.00408	3.11007	0.33887	0.00359	0.74448
0.44307	-3.19493	1.42951	-0.18217	-1.81294	1.43281	-0.00405	3.27014	0.32968	0.00437	0.73577
0.45349	-3.22980	1.43185	-0.18369	-1.82005	1.44023	-0.00402	3.44314	0.32048	0.00503	0.72818
0.46417	-3.26143	1.43420	-0.18506	-1.82778	1.44834	-0.00398	3.62868	0.31136	0.00554	0.72193
0.47508	-3.29200	1.43691	-0.18622	-1.83598	1.45687	-0.00395	3.82506	0.30242	0.00589	0.71702
0.48626	-3.32144	1.43975	-0.18723	-1.84444	1.46551	-0.00392	4.03117	0.29369	0.00611	0.71335
0.49771	-3.34848	1.44238	-0.18818	-1.85309	1.47409	-0.00389	4.24720	0.28518	0.00621	0.71083
0.50942	-3.37446	1.44503	-0.18903	-1.86185	1.48257	-0.00386	4.47256	0.27692	0.00622	0.70924
0.52140	-3.40236	1.44804	-0.18972	-1.87039	1.49074	-0.00383	4.70443	0.26897	0.00618	0.70818
0.53367	-3.43251	1.45124	-0.19032	-1.87847	1.49831	-0.00380	4.94128	0.26135	0.00614	0.70728
0.54624	-3.46376	1.45418	-0.19093	-1.88593	1.50504	-0.00377	5.18152	0.25403	0.00615	0.70638
0.55910	-3.49671	1.45689	-0.19154	-1.89269	1.51095	-0.00374	5.42284	0.24706	0.00618	0.70550
0.57225	-3.53409	1.45985	-0.19208	-1.89861	1.51608	-0.00371	5.66127	0.24049	0.00619	0.70475
0.58569	-3.57678	1.46320	-0.19249	-1.90367	1.52043	-0.00368	5.89428	0.23435	0.00618	0.70421
0.59948	-3.62321	1.46659	-0.19290	-1.90788	1.52401	-0.00365	6.12198	0.22858	0.00614	0.70400
0.61357	-3.67115	1.46961	-0.19337	-1.91130	1.52682	-0.00362	6.34310	0.22318	0.00607	0.70422
0.62802	-3.72092	1.47245	-0.19390	-1.91410	1.52905	-0.00359	6.55848	0.21809	0.00597	0.70497
0.64280	-3.77347	1.47556	-0.19438	-1.91649	1.53093	-0.00357	6.76824	0.21333	0.00580	0.70631
0.65794	-3.82875	1.47913	-0.19478	-1.91865	1.53262	-0.00354	6.97409	0.20885	0.00557	0.70824
0.67340	-3.88522	1.48281	-0.19520	-1.92054	1.53402	-0.00351	7.17536	0.20465	0.00531	0.71072
0.68927	-3.94154	1.48617	-0.19573	-1.92209	1.53504	-0.00349	7.37284	0.20065	0.00506	0.71370
0.70547	-3.99698	1.48910	-0.19639	-1.92332	1.53566	-0.00346	7.56560	0.19686	0.00481	0.71698
0.72207	-4.05296	1.49203	-0.19709	-1.92438	1.53604	-0.00344	7.75535	0.19326	0.00456	0.72034
0.73910	-4.11093	1.49536	-0.19774	-1.92533	1.53629	-0.00341	7.94221	0.18985	0.00429	0.72351
0.75649	-4.17075	1.49910	-0.19834	-1.92619	1.53641	-0.00339	8.12583	0.18665	0.00402	0.72613
0.77429	-4.23148	1.50291	-0.19897	-1.92682	1.53626	-0.00336	8.30632	0.18360	0.00376	0.72782
0.79246	-4.29167	1.50633	-0.19972	-1.92710	1.53568	-0.00334	8.48204	0.18069	0.00354	0.72825
0.81116	-4.35175	1.50927	-0.20063	-1.92694	1.53461	-0.00331	8.65366	0.17790	0.00337	0.72756
0.83022	-4.41189	1.51199	-0.20162	-1.92645	1.53318	-0.00329	8.81938	0.17526	0.00323	0.72609
0.84976	-4.47383	1.51491	-0.20262	-1.92573	1.53152	-0.00327	8.98055	0.17277	0.00308	0.72422
0.86972	-4.53848	1.51827	-0.20358	-1.92477	1.52968	-0.00324	9.13577	0.17044	0.00292	0.72240
0.89023	-4.60514	1.52201	-0.20453	-1.92371	1.52772	-0.00322	9.28835	0.16824	0.00275	0.72106
0.91116	-4.67257	1.52572	-0.20553	-1.92235	1.52549	-0.00320	9.43557	0.16616	0.00258	0.72058
0.93257	-4.73992	1.52904	-0.20668	-1.92059	1.52284	-0.00318	9.57696	0.16417	0.00245	0.72094
0.95456	-4.80687	1.53186	-0.20801	-1.91841	1.51976	-0.00315	9.71277	0.16227	0.00235	0.72210
0.97704	-4.87342	1.53431	-0.20948	-1.91591	1.51633	-0.00313	9.84276	0.16047	0.00228	0.72403
1.00000	-4.94027	1.53676	-0.21102	-1.91326	1.51273	-0.00311	9.96799	0.15877	0.00222	0.72671
1.02354	-5.00843	1.53952	-0.21257	-1.91060	1.50910	-0.00309	10.09029	0.15717	0.00213	0.73011
1.04767	-5.07803	1.54274	-0.21410	-1.90802	1.50552	-0.00307	10.21088	0.15568	0.00203	0.73417
1.07227	-5.14848	1.54630	-0.21562	-1.90548	1.50198	-0.00305	10.32927	0.15427	0.00190	0.73872
1.09745	-5.21943	1.54994	-0.21719	-1.90286	1.49834	-0.00303	10.44525	0.15292	0.00177	0.74362
1.12334	-5.29034	1.55336	-0.21889	-1.90003	1.49448	-0.00301	10.55855	0.15162	0.00165	0.74876
1.14982	-5.36089	1.55633	-0.22075	-1.89681	1.49026	-0.00299	10.66623	0.15037	0.00157	0.75399
1.17675	-5.42972	1.55883	-0.22276	-1.89341	1.48584	-0.00297	10.77009	0.14916	0.00152	0.75915
1.20453	-5.49865	1.56107	-0.22491	-1.88979	1.48118	-0.00295	10.87096	0.14799	0.00148	0.76422
1.23289	-5.56747	1.56327	-0.22712	-1.88610	1.47645	-0.00293	10.96902	0.14688	0.00145	0.76905
1.26183	-5.63672	1.56571	-0.22935	-1.88248	1.47179	-0.00291	11.06550	0.14583	0.00141	0.77366
1.29149	-5.70717	1.56854	-0.23157	-1.87895	1.46722	-0.00289	11.16166	0.14482	0.00133	0.77817
1.32188	-5.77899	1.57179	-0.23376	-1.87551	1.46276	-0.00287	11.25751	0.14387	0.00123	0.78267
1.35300	-5.85219	1.57536	-0.23594	-1.87204	1.45833	-0.00285	11.35211	0.14295	0.00111	0.78727
1.38485	-5.92665	1.57904	-0.23816	-1.86841	1.45382	-0.00283	11.44373	0.14207	0.00098	0.79204
1.41743	-6.00217	1.58262	-0.24044	-1.86443	1.44911	-0.00281	11.53033	0.14121	0.00085	0.79709
1.45075	-6.07865	1.58592	-0.24282	-1.85999	1.44409	-0.00280	11.60999	0.14039	0.00073	0.80244
1.48500	-6.15637	1.58888	-0.24533	-1.85500	1.43869	-0.00278	11.68233	0.13959	0.00063	0.80810
1.51999	-6.23498	1.59150	-0.24794	-1.84949	1.43294	-0.00276	11.74630	0.13882	0.00055	0.81403
1.55569	-6.31462	1.59387	-0.25064	-1.84354	1.42692	-0.00275	11.80226	0.13809	0.00048	0.82023
1.59236	-6.39610	1.59620	-0.25340	-1.83719	1.42067	-0.00273	11.85142	0.13739	0.00041	0.82675
1.62973	-6.47914	1.59862	-0.25616	-1.83059	1.41431	-0.00271	11.89449	0.13674	0.00033	0.83355
1.66806	-6.56504	1.60131	-0.25891	-1.82366	1.40781	-0.00270	11.93111	0.13613	0.00023	0.84066
1.70736	-6.65286	1.60436	-0.26162	-1.81672	1.40137	-0.00268	11.96561	0.13555	0.00011	0.84811
1.74764	-6.74314	1.60782	-0.26428	-1.80966	1.39494	-0.00267	11.99675	0.13501	-0.00003	0.85588
1.78859	-6.83519	1.61162	-0.26686	-1.80252	1.38856	-0.00266	12.02411	0.13450	-0.00019	0.86391
1.83083	-6.93030	1.61575	-0.26941	-1.79514	1.38209	-0.00264	12.04763	0.13401	-0.00036	0.87229
1.87371	-7.02681	1.62004	-0.27192	-1.78758	1.37558	-0.00263	12.06615	0.13355	-0.00054	0.88086
1.91791	-7.12611	1.62444	-0.27442	-1.77965	1.36886	-0.00262	12.07890	0.13311	-0.00071	0.88968
1.96309	-7.22721	1.62880	-0.27692	-1.77134	1.36193	-0.00260	12.08488	0.13268	-0.00088	0.89855

2.00924	-7.32991	1.63306	-0.27942	-1.76263	1.35477	-0.00259	12.08342	0.13227	-0.00104	0.90734
2.05634	-7.43402	1.63715	-0.28193	-1.75351	1.34736	-0.00258	12.07418	0.13188	-0.00118	0.91591
2.10482	-7.54038	1.64112	-0.28447	-1.74392	1.33965	-0.00257	12.05695	0.13150	-0.00131	0.92417
2.15424	-7.64798	1.64497	-0.28700	-1.73397	1.33172	-0.00256	12.03212	0.13115	-0.00143	0.93188
2.20507	-7.75780	1.64878	-0.28953	-1.72364	1.32354	-0.00255	12.00003	0.13081	-0.00154	0.93902
2.25683	-7.86875	1.65260	-0.29202	-1.71311	1.31525	-0.00254	11.96183	0.13050	-0.00165	0.94556
2.31000	-7.98189	1.65655	-0.29447	-1.70235	1.30683	-0.00252	11.91805	0.13021	-0.00176	0.95169
2.36463	-8.09730	1.66072	-0.29685	-1.69141	1.29833	-0.00251	11.86938	0.12995	-0.00188	0.95750
2.42014	-8.21378	1.66513	-0.29914	-1.68048	1.28986	-0.00250	11.81712	0.12972	-0.00201	0.96307
2.47709	-8.33234	1.66987	-0.30133	-1.66953	1.28142	-0.00249	11.76171	0.12952	-0.00214	0.96862
2.53550	-8.45305	1.67498	-0.30341	-1.65856	1.27300	-0.00248	11.70331	0.12935	-0.00229	0.97430
2.59471	-8.57454	1.68041	-0.30537	-1.64769	1.26470	-0.00247	11.64285	0.12920	-0.00245	0.98019
2.65604	-8.69917	1.68626	-0.30722	-1.63680	1.25639	-0.00246	11.57968	0.12908	-0.00262	0.98647
2.71887	-8.82576	1.69247	-0.30896	-1.62589	1.24812	-0.00245	11.51393	0.12899	-0.00280	0.99314
2.78242	-8.95250	1.69894	-0.31057	-1.61516	1.23999	-0.00244	11.44667	0.12892	-0.00298	1.00016
2.84819	-9.08200	1.70574	-0.31206	-1.60439	1.23184	-0.00243	11.37668	0.12889	-0.00317	1.00778
2.91545	-9.21310	1.71281	-0.31347	-1.59355	1.22366	-0.00242	11.30359	0.12887	-0.00336	1.01592
2.98329	-9.34310	1.71993	-0.31471	-1.58303	1.21570	-0.00241	11.22984	0.12888	-0.00355	1.02441
3.05344	-9.47601	1.72732	-0.31591	-1.57224	1.20755	-0.00240	11.15169	0.12891	-0.00373	1.03321
3.12598	-9.61088	1.73488	-0.31698	-1.56151	1.19940	-0.00239	11.07076	0.12897	-0.00391	1.04217
3.19898	-9.74463	1.74241	-0.31797	-1.55082	1.19130	-0.00238	10.98779	0.12904	-0.00408	1.05073
3.27439	-9.87971	1.75010	-0.31884	-1.54026	1.18322	-0.00237	10.90337	0.12915	-0.00425	1.05891
3.35121	-10.01541	1.75778	-0.31965	-1.52956	1.17504	-0.00236	10.81475	0.12927	-0.00442	1.06640
3.43053	-10.15262	1.76560	-0.32033	-1.51894	1.16686	-0.00235	10.72357	0.12943	-0.00458	1.07357
3.51124	-10.28984	1.77342	-0.32096	-1.50825	1.15863	-0.00234	10.63005	0.12958	-0.00473	1.08049
3.59324	-10.42587	1.78122	-0.32139	-1.49799	1.15062	-0.00233	10.53660	0.12980	-0.00489	1.08757
3.67782	-10.56446	1.78922	-0.32186	-1.48731	1.14233	-0.00232	10.43889	0.12999	-0.00502	1.09510
3.76506	-10.70274	1.79725	-0.32201	-1.47728	1.13438	-0.00231	10.34229	0.13028	-0.00516	1.10364
3.85356	-10.84254	1.80553	-0.32232	-1.46670	1.12609	-0.00230	10.24166	0.13051	-0.00528	1.11274
3.94477	-10.98072	1.81370	-0.32218	-1.45708	1.11837	-0.00229	10.14458	0.13085	-0.00541	1.12265
4.03714	-11.12033	1.82228	-0.32222	-1.44704	1.11037	-0.00228	10.04497	0.13115	-0.00551	1.13266
4.13223	-11.25957	1.83078	-0.32196	-1.43743	1.10264	-0.00227	9.94626	0.13150	-0.00562	1.14285
4.23012	-11.39994	1.83961	-0.32147	-1.42823	1.09512	-0.00226	9.84762	0.13193	-0.00574	1.15290
4.32900	-11.54159	1.84874	-0.32124	-1.41835	1.08719	-0.00224	9.74620	0.13226	-0.00582	1.16206
4.43066	-11.67930	1.85757	-0.32027	-1.41013	1.08032	-0.00223	9.65282	0.13278	-0.00595	1.17090
4.53515	-11.82266	1.86727	-0.31962	-1.40095	1.07279	-0.00222	9.55294	0.13323	-0.00605	1.17898
4.64253	-11.96565	1.87692	-0.31883	-1.39192	1.06538	-0.00221	9.45496	0.13366	-0.00615	1.18646
4.75059	-12.10267	1.88629	-0.31732	-1.38475	1.05918	-0.00220	9.36622	0.13431	-0.00629	1.19356
4.86145	-12.24741	1.89675	-0.31646	-1.37585	1.05183	-0.00219	9.26794	0.13478	-0.00638	1.19984
4.97760	-12.39051	1.90695	-0.31513	-1.36790	1.04512	-0.00217	9.17726	0.13531	-0.00649	1.20591
5.09424	-12.52863	1.91694	-0.31307	-1.36164	1.03952	-0.00216	9.09282	0.13608	-0.00663	1.21174
5.21376	-12.67614	1.92825	-0.31186	-1.35318	1.03243	-0.00215	8.99666	0.13661	-0.00672	1.21685
5.33618	-12.81890	1.93887	-0.31027	-1.34558	1.02597	-0.00214	8.90743	0.13718	-0.00681	1.22177
5.46150	-12.95564	1.94910	-0.30755	-1.34050	1.02118	-0.00213	8.82988	0.13808	-0.00696	1.22694
5.58971	-13.10317	1.96093	-0.30571	-1.33314	1.01481	-0.00211	8.73936	0.13874	-0.00705	1.23165
5.72082	-13.25094	1.97264	-0.30424	-1.32497	1.00795	-0.00210	8.64757	0.13925	-0.00711	1.23621
5.85823	-13.38817	1.98302	-0.30097	-1.32070	1.00372	-0.00209	8.57519	0.14024	-0.00725	1.24166
5.99520	-13.53014	1.99461	-0.29808	-1.31551	0.99884	-0.00208	8.49679	0.14115	-0.00736	1.24694
6.13497	-13.68261	2.00755	-0.29650	-1.30729	0.99189	-0.00206	8.40366	0.14169	-0.00738	1.25180
6.28141	-13.82489	2.01876	-0.29389	-1.30142	0.98659	-0.00205	8.32539	0.14244	-0.00745	1.25725
6.42674	-13.95456	2.02898	-0.28983	-1.29900	0.98368	-0.00204	8.26517	0.14360	-0.00758	1.26320
6.57895	-14.10175	2.04165	-0.28671	-1.29381	0.97877	-0.00203	8.18700	0.14454	-0.00765	1.26898
6.73401	-14.25855	2.05549	-0.28505	-1.28542	0.97166	-0.00201	8.09422	0.14505	-0.00762	1.27430
6.89180	-14.39367	2.06616	-0.28188	-1.28096	0.96738	-0.00200	8.02663	0.14590	-0.00767	1.28025
7.05716	-14.52369	2.07645	-0.27689	-1.27990	0.96541	-0.00199	7.97389	0.14724	-0.00780	1.28690
7.22022	-14.66461	2.08879	-0.27317	-1.27605	0.96147	-0.00198	7.90607	0.14827	-0.00784	1.29279
7.39098	-14.82438	2.10348	-0.27109	-1.26813	0.95463	-0.00197	7.81540	0.14886	-0.00779	1.29801
7.56430	-14.96735	2.11536	-0.26862	-1.26189	0.94908	-0.00195	7.73897	0.14950	-0.00777	1.30313
7.73994	-15.08176	2.12382	-0.26310	-1.26275	0.94861	-0.00195	7.70465	0.15087	-0.00789	1.30882
7.92393	-15.21559	2.13518	-0.25804	-1.26141	0.94646	-0.00193	7.65257	0.15215	-0.00795	1.31387
8.11030	-15.36349	2.14871	-0.25427	-1.25703	0.94212	-0.00192	7.58289	0.15313	-0.00795	1.31800
8.29876	-15.52655	2.16409	-0.25268	-1.24799	0.93445	-0.00191	7.48722	0.15357	-0.00785	1.32105
8.49618	-15.65820	2.17443	-0.24924	-1.24416	0.93065	-0.00189	7.42851	0.15439	-0.00785	1.32465
8.69565	-15.76219	2.18163	-0.24256	-1.24754	0.93206	-0.00189	7.41309	0.15594	-0.00798	1.32895
8.90472	-15.89385	2.19295	-0.23698	-1.24713	0.93062	-0.00188	7.37057	0.15724	-0.00802	1.33263
9.11577	-16.03525	2.20581	-0.23230	-1.24458	0.92761	-0.00187	7.31478	0.15834	-0.00802	1.33591
9.32836	-16.20293	2.22229	-0.23016	-1.23608	0.92024	-0.00185	7.22037	0.15893	-0.00790	1.33842
9.54198	-16.34842	2.23498	-0.22840	-1.22859	0.91378	-0.00184	7.14036	0.15936	-0.00780	1.34122
9.76563	-16.43689	2.23977	-0.22176	-1.23306	0.91615	-0.00183	7.14092	0.16077	-0.00791	1.34601
10.00000	-16.54178	2.24755	-0.21434	-1.23742	0.91833	-0.00183	7.13655	0.16231	-0.00799	1.35126

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Atkinson and Boore (1995) model
Median stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 15 - 30 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-4.54424	2.35165	0.07254	-2.32249	1.68394	-0.00196	3.37876	0.38552	-0.04219	0.50205
PGV	1.97308	1.45690	-0.08393	-2.05639	1.37965	-0.00315	2.27998	0.45786	-0.02933	0.48350
PGA	0.11549	1.48252	-0.02832	-2.30650	1.04282	-0.00286	1.92071	0.56896	-0.01575	0.68959
0.01000	0.44032	1.49702	-0.02521	-2.37048	1.01958	-0.00278	2.11281	0.56276	0.00531	0.63172
0.01024	0.45914	1.49848	-0.02478	-2.37463	1.01625	-0.00277	2.11911	0.56302	0.00540	0.63202
0.01048	0.48172	1.49997	-0.02434	-2.37948	1.01295	-0.00276	2.12770	0.56316	0.00547	0.63238
0.01072	0.50865	1.50153	-0.02389	-2.38517	1.00962	-0.00274	2.13896	0.56317	0.00553	0.63281
0.01097	0.54030	1.50316	-0.02343	-2.39176	1.00624	-0.00272	2.15316	0.56304	0.00557	0.63331
0.01123	0.57612	1.50487	-0.02296	-2.39914	1.00275	-0.00271	2.16977	0.56281	0.00560	0.63389
0.01150	0.61578	1.50667	-0.02247	-2.40726	0.99909	-0.00269	2.18843	0.56250	0.00561	0.63457
0.01177	0.66004	1.50859	-0.02195	-2.41627	0.99519	-0.00267	2.20966	0.56211	0.00560	0.63535
0.01205	0.71025	1.51063	-0.02140	-2.42640	0.99099	-0.00264	2.23446	0.56158	0.00557	0.63624
0.01233	0.76725	1.51283	-0.02082	-2.43784	0.98650	-0.00262	2.26338	0.56090	0.00553	0.63726
0.01262	0.83011	1.51518	-0.02022	-2.45039	0.98162	-0.00259	2.29554	0.56014	0.00546	0.63841
0.01292	0.89707	1.51767	-0.01956	-2.46370	0.97616	-0.00256	2.32943	0.55937	0.00539	0.63971
0.01322	0.96792	1.52031	-0.01885	-2.47769	0.96999	-0.00252	2.36485	0.55863	0.00529	0.64118
0.01353	1.04511	1.52314	-0.01808	-2.49285	0.96308	-0.00249	2.40358	0.55783	0.00517	0.64289
0.01385	1.13053	1.52620	-0.01728	-2.50957	0.95548	-0.00245	2.44692	0.55694	0.00503	0.64478
0.01417	1.22325	1.52948	-0.01646	-2.52762	0.94714	-0.00241	2.49413	0.55598	0.00489	0.64682
0.01451	1.32297	1.53296	-0.01563	-2.54693	0.93821	-0.00236	2.54503	0.55498	0.00473	0.64913
0.01485	1.42566	1.53662	-0.01474	-2.56673	0.92847	-0.00231	2.59613	0.55410	0.00455	0.65165
0.01520	1.52611	1.54040	-0.01377	-2.58596	0.91738	-0.00226	2.64304	0.55355	0.00441	0.65414
0.01556	1.62146	1.54425	-0.01273	-2.60403	0.90464	-0.00222	2.68330	0.55343	0.00431	0.65661
0.01592	1.71635	1.54824	-0.01166	-2.62179	0.89033	-0.00216	2.72052	0.55359	0.00419	0.65943
0.01630	1.81753	1.55240	-0.01062	-2.64043	0.87434	-0.00211	2.76041	0.55379	0.00401	0.66286
0.01668	1.92459	1.55666	-0.00964	-2.65972	0.85655	-0.00205	2.80315	0.55402	0.00380	0.66678
0.01707	2.02838	1.56092	-0.00873	-2.67798	0.83726	-0.00199	2.84130	0.55457	0.00361	0.67071
0.01748	2.11749	1.56508	-0.00782	-2.69321	0.81697	-0.00194	2.86528	0.55577	0.00351	0.67430
0.01789	2.18283	1.56902	-0.00683	-2.70367	0.79599	-0.00189	2.86814	0.55785	0.00348	0.67762
0.01831	2.22799	1.57282	-0.00571	-2.71009	0.77448	-0.00185	2.85381	0.56067	0.00349	0.68081
0.01874	2.26663	1.57674	-0.00452	-2.71519	0.75235	-0.00182	2.83397	0.56378	0.00354	0.68384
0.01918	2.30533	1.58085	-0.00340	-2.72025	0.72947	-0.00178	2.81422	0.56695	0.00364	0.68663
0.01963	2.33680	1.58495	-0.00238	-2.72384	0.70657	-0.00174	2.78945	0.57034	0.00379	0.68924
0.02009	2.34439	1.58858	-0.00135	-2.72269	0.68491	-0.00172	2.74853	0.57430	0.00393	0.69184
0.02057	2.31810	1.59135	-0.00021	-2.71455	0.66428	-0.00171	2.68640	0.57907	0.00409	0.69428
0.02105	2.26663	1.59345	0.00097	-2.70096	0.64306	-0.00171	2.61060	0.58447	0.00437	0.69587
0.02154	2.20428	1.59538	0.00213	-2.68507	0.62115	-0.00172	2.53088	0.59018	0.00486	0.69600
0.02205	2.13858	1.59748	0.00320	-2.66893	0.60043	-0.00172	2.45144	0.59594	0.00555	0.69474
0.02257	2.07730	1.59968	0.00409	-2.65416	0.58244	-0.00173	2.37772	0.60137	0.00631	0.69309
0.02310	2.02359	1.60162	0.00481	-2.64091	0.56679	-0.00174	2.31272	0.60627	0.00691	0.69230
0.02364	1.96578	1.60321	0.00548	-2.62680	0.55237	-0.00176	2.24830	0.61110	0.00732	0.69266
0.02420	1.88790	1.60445	0.00626	-2.60878	0.53836	-0.00178	2.17397	0.61652	0.00760	0.69359
0.02477	1.78881	1.60528	0.00719	-2.58645	0.52424	-0.00181	2.09079	0.62255	0.00795	0.69382
0.02535	1.68752	1.60577	0.00806	-2.56346	0.51077	-0.00184	2.01217	0.62840	0.00857	0.69206
0.02595	1.60788	1.60625	0.00851	-2.54464	0.49915	-0.00187	1.95169	0.63314	0.00950	0.68812
0.02656	1.55305	1.60701	0.00840	-2.53091	0.48965	-0.00189	1.90833	0.63678	0.01061	0.68289
0.02719	1.50333	1.60789	0.00807	-2.51857	0.48249	-0.00192	1.86894	0.64010	0.01172	0.67771
0.02783	1.42812	1.60830	0.00818	-2.50147	0.47748	-0.00195	1.81552	0.64424	0.01267	0.67358
0.02848	1.31423	1.60794	0.00896	-2.47696	0.47317	-0.00201	1.74021	0.64987	0.01345	0.67063
0.02915	1.17185	1.60707	0.01013	-2.44717	0.46800	-0.00206	1.64916	0.65686	0.01415	0.66815
0.02984	1.02213	1.60605	0.01127	-2.41595	0.46195	-0.00211	1.55677	0.66434	0.01477	0.66609
0.03054	0.88648	1.60490	0.01210	-2.38674	0.45621	-0.00217	1.47745	0.67119	0.01521	0.66513
0.03126	0.77575	1.60360	0.01254	-2.36153	0.45256	-0.00222	1.41709	0.67667	0.01551	0.66490
0.03199	0.68908	1.60223	0.01261	-2.34077	0.45278	-0.00228	1.37349	0.68064	0.01587	0.66412
0.03275	0.61507	1.60109	0.01252	-2.32329	0.45729	-0.00234	1.33833	0.68365	0.01650	0.66157
0.03352	0.53678	1.60039	0.01255	-2.30639	0.46501	-0.00241	1.30144	0.68667	0.01749	0.65669
0.03430	0.44706	1.59981	0.01282	-2.28815	0.47332	-0.00247	1.25916	0.69022	0.01872	0.65035
0.03511	0.35484	1.59869	0.01314	-2.26910	0.47913	-0.00253	1.21614	0.69397	0.01994	0.64411
0.03594	0.27711	1.59673	0.01319	-2.25182	0.48196	-0.00257	1.18113	0.69702	0.02100	0.63872
0.03678	0.22456	1.59376	0.01283	-2.23799	0.48448	-0.00261	1.16017	0.69853	0.02184	0.63463
0.03765	0.19167	1.58980	0.01216	-2.22655	0.48963	-0.00265	1.15109	0.69857	0.02235	0.63248
0.03854	0.15832	1.58540	0.01143	-2.21431	0.49866	-0.00270	1.14419	0.69823	0.02255	0.63226
0.03944	0.10721	1.58139	0.01093	-2.19885	0.51089	-0.00277	1.13068	0.69863	0.02262	0.63280
0.04037	0.03947	1.57819	0.01072	-2.18091	0.52467	-0.00286	1.11011	0.69996	0.02276	0.63261
0.04132	-0.02841	1.57582	0.01052	-2.16373	0.53864	-0.00295	1.08895	0.70152	0.02309	0.63107
0.04229	-0.07608	1.57398	0.00991	-2.15104	0.55162	-0.00302	1.07513	0.70232	0.02354	0.62866
0.04329	-0.09329	1.57218	0.00862	-2.14432	0.56226	-0.00306	1.07232	0.70188	0.02388	0.62674
0.04431	-0.08614	1.57023	0.00679	-2.14206	0.56981	-0.00309	1.07830	0.70046	0.02401	0.62596
0.04535	-0.07181	1.56852	0.00482	-2.14124	0.57555	-0.00311	1.08718	0.69882	0.02409	0.62525

0.04642	-0.07351	1.56709	0.00311	-2.13774	0.58157	-0.00314	1.08959	0.69793	0.02434	0.62336
0.04751	-0.11187	1.56496	0.00194	-2.12709	0.58830	-0.00319	1.07581	0.69874	0.02468	0.62070
0.04863	-0.19108	1.56070	0.00135	-2.10726	0.59415	-0.00324	1.04315	0.70149	0.02482	0.61934
0.04977	-0.29584	1.55369	0.00106	-2.08039	0.59834	-0.00329	0.99878	0.70546	0.02445	0.62125
0.05094	-0.40681	1.54493	0.00087	-2.05080	0.60287	-0.00335	0.95277	0.70961	0.02359	0.62650
0.05214	-0.51497	1.53640	0.00080	-2.02189	0.61021	-0.00342	0.91042	0.71348	0.02260	0.63263
0.05337	-0.62150	1.52959	0.00097	-1.99486	0.62027	-0.00349	0.87136	0.71729	0.02202	0.63613
0.05462	-0.72684	1.52502	0.00132	-1.97017	0.63108	-0.00357	0.83444	0.72130	0.02216	0.63483
0.05591	-0.82334	1.52241	0.00153	-1.94929	0.64140	-0.00364	0.80139	0.72518	0.02297	0.62914
0.05722	-0.90121	1.52106	0.00118	-1.93364	0.65150	-0.00369	0.77492	0.72826	0.02421	0.62063
0.05857	-0.95734	1.51996	0.00007	-1.92285	0.66126	-0.00373	0.75557	0.73021	0.02569	0.61071
0.05995	-0.99578	1.51796	-0.00166	-1.91487	0.66918	-0.00375	0.74152	0.73117	0.02717	0.60100
0.06136	-1.02373	1.51439	-0.00368	-1.90738	0.67415	-0.00376	0.73053	0.73150	0.02834	0.59348
0.06280	-1.04698	1.50912	-0.00570	-1.89885	0.67697	-0.00376	0.72148	0.73138	0.02904	0.58934
0.06428	-1.06620	1.50225	-0.00771	-1.88903	0.68047	-0.00377	0.71509	0.73062	0.02925	0.58862
0.06579	-1.07807	1.49390	-0.00994	-1.87855	0.68720	-0.00379	0.71323	0.72885	0.02897	0.59114
0.06734	-1.07941	1.48434	-0.01256	-1.86826	0.69770	-0.00382	0.71722	0.72584	0.02819	0.59683
0.06893	-1.07022	1.47432	-0.01555	-1.85908	0.71135	-0.00386	0.72708	0.72170	0.02697	0.60526
0.07055	-1.05344	1.46505	-0.01870	-1.85208	0.72745	-0.00390	0.74162	0.71679	0.02552	0.61506
0.07221	-1.03327	1.45759	-0.02180	-1.84792	0.74545	-0.00394	0.75899	0.71159	0.02416	0.62428
0.07391	-1.01210	1.45205	-0.02474	-1.84647	0.76472	-0.00398	0.77789	0.70631	0.02302	0.63188
0.07565	-0.99309	1.44754	-0.02747	-1.84627	0.78366	-0.00402	0.79633	0.70120	0.02203	0.63821
0.07743	-0.98371	1.44290	-0.03000	-1.84457	0.79957	-0.00404	0.81015	0.69684	0.02117	0.64350
0.07925	-0.98992	1.43764	-0.03235	-1.83953	0.81018	-0.00406	0.81602	0.69374	0.02057	0.64694
0.08111	-1.01213	1.43211	-0.03454	-1.83126	0.81562	-0.00406	0.81402	0.69194	0.02041	0.64737
0.08302	-1.04823	1.42665	-0.03658	-1.82043	0.81811	-0.00406	0.80573	0.69118	0.02071	0.64469
0.08498	-1.09579	1.42117	-0.03849	-1.80741	0.82039	-0.00407	0.79262	0.69117	0.02126	0.64024
0.08697	-1.15201	1.41538	-0.04028	-1.79248	0.82426	-0.00408	0.77599	0.69162	0.02185	0.63548
0.08902	-1.21268	1.40906	-0.04198	-1.77619	0.83019	-0.00411	0.75771	0.69223	0.02233	0.63135
0.09112	-1.27194	1.40235	-0.04369	-1.75976	0.83815	-0.00413	0.74057	0.69258	0.02271	0.62803
0.09326	-1.32452	1.39584	-0.04541	-1.74484	0.84814	-0.00417	0.72699	0.69233	0.02304	0.62504
0.09545	-1.36664	1.39000	-0.04719	-1.73274	0.86000	-0.00420	0.71859	0.69122	0.02339	0.62197
0.09770	-1.39588	1.38502	-0.04914	-1.72414	0.87377	-0.00423	0.71639	0.68907	0.02372	0.61927
0.10000	-1.41298	1.38107	-0.05131	-1.71903	0.88963	-0.00426	0.71999	0.68600	0.02391	0.61789
0.10235	-1.42118	1.37808	-0.05372	-1.71666	0.90701	-0.00429	0.72780	0.68230	0.02388	0.61832
0.10476	-1.42220	1.37575	-0.05637	-1.71647	0.92479	-0.00432	0.73891	0.67813	0.02361	0.62061
0.10723	-1.41784	1.37379	-0.05911	-1.71792	0.94223	-0.00434	0.75256	0.67358	0.02306	0.62477
0.10975	-1.41215	1.37172	-0.06182	-1.71979	0.95889	-0.00435	0.76695	0.66890	0.02214	0.63099
0.11233	-1.40677	1.36903	-0.06453	-1.72132	0.97462	-0.00436	0.78138	0.66407	0.02078	0.63950
0.11498	-1.40476	1.36548	-0.06734	-1.72172	0.98866	-0.00437	0.79414	0.65931	0.01908	0.64975
0.11768	-1.40995	1.36124	-0.07031	-1.72040	0.99980	-0.00436	0.80291	0.65503	0.01721	0.66062
0.12045	-1.42248	1.35655	-0.07352	-1.71754	1.00722	-0.00435	0.80745	0.65130	0.01539	0.67084
0.12328	-1.44418	1.35160	-0.07695	-1.71285	1.01023	-0.00432	0.80688	0.64831	0.01377	0.67971
0.12619	-1.47754	1.34670	-0.08047	-1.70600	1.00887	-0.00428	0.80036	0.64629	0.01235	0.68717
0.12916	-1.52294	1.34241	-0.08393	-1.69731	1.00406	-0.00424	0.78851	0.64527	0.01121	0.69269
0.13219	-1.57909	1.33920	-0.08720	-1.68749	0.99703	-0.00419	0.77251	0.64517	0.01054	0.69495
0.13531	-1.64250	1.33696	-0.09030	-1.67720	0.98887	-0.00415	0.75413	0.64569	0.01042	0.69337
0.13849	-1.70892	1.33508	-0.09328	-1.66671	0.98052	-0.00411	0.73507	0.64645	0.01073	0.68888
0.14175	-1.77372	1.33294	-0.09616	-1.65633	0.97294	-0.00406	0.71741	0.64697	0.01111	0.68369
0.14508	-1.83267	1.33024	-0.09895	-1.64654	0.96680	-0.00402	0.70335	0.64678	0.01122	0.68022
0.14850	-1.88371	1.32702	-0.10165	-1.63771	0.96230	-0.00398	0.69402	0.64568	0.01085	0.68004
0.15199	-1.92515	1.32352	-0.10429	-1.63036	0.95962	-0.00393	0.69069	0.64345	0.01000	0.68322
0.15557	-1.95581	1.32029	-0.10691	-1.62522	0.95913	-0.00389	0.69464	0.63996	0.00891	0.68820
0.15923	-1.97636	1.31796	-0.10951	-1.62281	0.96092	-0.00386	0.70622	0.63530	0.00796	0.69268
0.16298	-1.98897	1.31686	-0.11203	-1.62311	0.96472	-0.00383	0.72467	0.62971	0.00733	0.69546
0.16681	-1.99778	1.31684	-0.11440	-1.62516	0.96994	-0.00380	0.74765	0.62369	0.00696	0.69710
0.17074	-2.00714	1.31749	-0.11658	-1.62763	0.97592	-0.00377	0.77232	0.61768	0.00667	0.69879
0.17475	-2.01795	1.31849	-0.11856	-1.62996	0.98249	-0.00374	0.79777	0.61183	0.00632	0.70150
0.17887	-2.03059	1.31974	-0.12037	-1.63186	0.98988	-0.00372	0.82368	0.60616	0.00586	0.70553
0.18307	-2.04387	1.32129	-0.12206	-1.63357	0.99872	-0.00371	0.85083	0.60062	0.00533	0.71057
0.18738	-2.05612	1.32319	-0.12367	-1.63543	1.00915	-0.00371	0.88026	0.59506	0.00477	0.71627
0.19179	-2.06542	1.32535	-0.12522	-1.63779	1.02065	-0.00371	0.91263	0.58943	0.00417	0.72247
0.19631	-2.06942	1.32773	-0.12674	-1.64115	1.03254	-0.00371	0.94904	0.58364	0.00358	0.72884
0.20092	-2.06658	1.33033	-0.12825	-1.64585	1.04455	-0.00370	0.99023	0.57763	0.00304	0.73499
0.20565	-2.05649	1.33314	-0.12978	-1.65197	1.05675	-0.00370	1.03678	0.57142	0.00260	0.74056
0.21049	-2.03983	1.33613	-0.13130	-1.65932	1.06916	-0.00369	1.08879	0.56503	0.00227	0.74548
0.21544	-2.01763	1.33934	-0.13274	-1.66779	1.08187	-0.00368	1.14597	0.55858	0.00203	0.74985
0.22051	-1.99164	1.34282	-0.13404	-1.67713	1.09496	-0.00367	1.20738	0.55218	0.00183	0.75374
0.22570	-1.96295	1.34650	-0.13519	-1.68712	1.10840	-0.00366	1.27243	0.54589	0.00168	0.75707
0.23101	-1.93083	1.35026	-0.13622	-1.69783	1.12216	-0.00365	1.34166	0.53965	0.00157	0.75990
0.23645	-1.89178	1.35419	-0.13720	-1.71003	1.13663	-0.00364	1.41860	0.53318	0.00144	0.76256
0.24201	-1.84350	1.35848	-0.13819	-1.72441	1.15189	-0.00362	1.50597	0.52636	0.00130	0.76506
0.24771	-1.78371	1.36337	-0.13921	-1.74174	1.16762	-0.00360	1.60655	0.51911	0.00116	0.76736
0.25354	-1.71099	1.36876	-0.14029	-1.76229	1.18371	-0.00358	1.72229	0.51138	0.00100	0.76957
0.25950	-1.62936	1.37389	-0.14143	-1.78446	1.20079	-0.00355	1.85145	0.50322	0.00087	0.77145
0.26561	-1.54329	1.37877	-0.14261	-1.80739	1.21819	-0.00352	1.99102	0.49490	0.00084	0.77257
0.27186	-1.45831	1.38371	-0.14382	-1.83042	1.23430	-0.00349	2.13627	0.48675	0.00094	0.77264
0.27826	-1.38522	1.38828	-0.14506	-1.85096	1.24798	-0.00346	2.27604	0.47926	0.00118	0.77159
0.28480	-1.33333	1.39215	-0.14634	-1.86679	1.25897	-0.00344	2.39927	0.47276	0.00155	0.76960
0.29150	-1.30806	1.39539	-0.14761	-1.87699	1.26660	-0.00342	2.49822	0.46745	0.00196	0.76723
0.29836	-1.31334	1.39789	-0.14883	-1.88070	1.27039	-0.00340	2.56554	0.46350	0.00224	0.76574

0.30539	-1.35326	1.39968	-0.14993	-1.87731	1.26984	-0.00339	2.59401	0.46105	0.00228	0.76578
0.31257	-1.42439	1.40138	-0.15094	-1.86805	1.26755	-0.00339	2.58645	0.46003	0.00213	0.76691
0.31993	-1.51733	1.40368	-0.15193	-1.85559	1.26515	-0.00340	2.55283	0.46009	0.00192	0.76831
0.32745	-1.62758	1.40636	-0.15292	-1.84090	1.26140	-0.00342	2.49720	0.46101	0.00165	0.76990
0.33517	-1.75281	1.40831	-0.15407	-1.82347	1.25557	-0.00343	2.42186	0.46251	0.00127	0.77216
0.34304	-1.88493	1.41061	-0.15532	-1.80578	1.25019	-0.00344	2.33947	0.46428	0.00083	0.77483
0.35112	-2.02646	1.41311	-0.15660	-1.78699	1.24552	-0.00346	2.25114	0.46624	0.00039	0.77754
0.35938	-2.16532	1.41627	-0.15808	-1.76990	1.24123	-0.00348	2.17094	0.46787	-0.00006	0.78044
0.36784	-2.29889	1.42014	-0.15985	-1.75512	1.23665	-0.00349	2.10315	0.46889	-0.00053	0.78389
0.37649	-2.43753	1.42341	-0.16189	-1.73924	1.23105	-0.00350	2.03611	0.46957	-0.00097	0.78749
0.38536	-2.57975	1.42652	-0.16415	-1.72306	1.22443	-0.00351	1.97066	0.47001	-0.00137	0.79107
0.39442	-2.72701	1.42935	-0.16652	-1.70625	1.21635	-0.00351	1.90478	0.47028	-0.00170	0.79445
0.40370	-2.88494	1.43158	-0.16888	-1.68727	1.20769	-0.00351	1.83300	0.47060	-0.00201	0.79780
0.41321	-3.04906	1.43402	-0.17115	-1.66782	1.19878	-0.00351	1.75903	0.47102	-0.00245	0.80191
0.42292	-3.21443	1.43616	-0.17338	-1.64831	1.19155	-0.00352	1.68759	0.47114	-0.00299	0.80651
0.43288	-3.37417	1.43849	-0.17552	-1.63073	1.18542	-0.00353	1.62673	0.47044	-0.00365	0.81163
0.44307	-3.52071	1.44187	-0.17762	-1.61737	1.18249	-0.00353	1.58407	0.46860	-0.00419	0.81557
0.45349	-3.65512	1.44553	-0.17969	-1.60724	1.18070	-0.00353	1.55764	0.46554	-0.00450	0.81784
0.46417	-3.77649	1.44950	-0.18173	-1.60042	1.18164	-0.00354	1.54945	0.46108	-0.00458	0.81841
0.47508	-3.88543	1.45386	-0.18375	-1.59673	1.18494	-0.00354	1.56004	0.45518	-0.00450	0.81779
0.48626	-3.98130	1.45859	-0.18578	-1.59625	1.18974	-0.00355	1.58918	0.44801	-0.00430	0.81623
0.49771	-4.06412	1.46314	-0.18791	-1.59832	1.19613	-0.00355	1.63623	0.43965	-0.00396	0.81379
0.50942	-4.13572	1.46781	-0.18992	-1.60306	1.20290	-0.00354	1.70083	0.43032	-0.00342	0.81014
0.52140	-4.20286	1.47250	-0.19173	-1.60876	1.21002	-0.00354	1.77825	0.42035	-0.00272	0.80549
0.53367	-4.26747	1.47657	-0.19352	-1.61427	1.21623	-0.00352	1.86625	0.40985	-0.00211	0.80119
0.54624	-4.32754	1.47995	-0.19539	-1.61993	1.22204	-0.00351	1.96568	0.39897	-0.00149	0.79664
0.55910	-4.38187	1.48264	-0.19732	-1.62601	1.22770	-0.00349	2.07903	0.38763	-0.00083	0.79173
0.57225	-4.43081	1.48499	-0.19922	-1.63275	1.23373	-0.00346	2.20888	0.37581	-0.00017	0.78667
0.58569	-4.47499	1.48733	-0.20094	-1.64029	1.24027	-0.00344	2.35682	0.36363	0.00046	0.78150
0.59948	-4.51248	1.48937	-0.20258	-1.64880	1.24724	-0.00341	2.52613	0.35106	0.00104	0.77655
0.61357	-4.54083	1.49081	-0.20418	-1.65841	1.25487	-0.00338	2.71946	0.33819	0.00160	0.77193
0.62802	-4.55865	1.49185	-0.20570	-1.66965	1.26369	-0.00335	2.94357	0.32491	0.00214	0.76759
0.64280	-4.56690	1.49295	-0.20702	-1.68279	1.27403	-0.00332	3.20146	0.31138	0.00267	0.76346
0.65794	-4.56696	1.49442	-0.20810	-1.69782	1.28591	-0.00329	3.49465	0.29778	0.00319	0.75958
0.67340	-4.55960	1.49603	-0.20896	-1.71432	1.29892	-0.00326	3.82066	0.28439	0.00369	0.75607
0.68927	-4.54616	1.49740	-0.20972	-1.73165	1.31250	-0.00323	4.17674	0.27135	0.00419	0.75294
0.70547	-4.52916	1.49840	-0.21041	-1.74909	1.32606	-0.00320	4.55557	0.25888	0.00468	0.75015
0.72207	-4.51197	1.49933	-0.21098	-1.76630	1.33934	-0.00316	4.95422	0.24701	0.00515	0.74749
0.73910	-4.49917	1.50056	-0.21136	-1.78268	1.35192	-0.00313	5.36421	0.23586	0.00557	0.74474
0.75649	-4.49238	1.50216	-0.21158	-1.79792	1.36354	-0.00310	5.77833	0.22553	0.00595	0.74170
0.77429	-4.49087	1.50388	-0.21173	-1.81192	1.37406	-0.00308	6.19313	0.21596	0.00630	0.73810
0.79246	-4.49338	1.50532	-0.21192	-1.82457	1.38329	-0.00305	6.60314	0.20716	0.00661	0.73371
0.81116	-4.49907	1.50640	-0.21219	-1.83604	1.39136	-0.00302	7.01043	0.19900	0.00692	0.72862
0.83022	-4.50832	1.50732	-0.21251	-1.84637	1.39834	-0.00299	7.40936	0.19150	0.00719	0.72316
0.84976	-4.52227	1.50848	-0.21280	-1.85580	1.40442	-0.00296	7.80145	0.18459	0.00743	0.71767
0.86972	-4.54206	1.51011	-0.21301	-1.86427	1.40967	-0.00293	8.18219	0.17828	0.00760	0.71257
0.89023	-4.56784	1.51220	-0.21318	-1.87182	1.41410	-0.00291	8.55111	0.17250	0.00773	0.70827
0.91116	-4.59802	1.51443	-0.21338	-1.87838	1.41767	-0.00288	8.90364	0.16726	0.00782	0.70518
0.93257	-4.63175	1.51646	-0.21371	-1.88386	1.42027	-0.00286	9.23777	0.16252	0.00789	0.70328
0.95456	-4.66764	1.51816	-0.21421	-1.88845	1.42203	-0.00283	9.55551	0.15822	0.00795	0.70251
0.97704	-4.70504	1.51963	-0.21485	-1.89235	1.42312	-0.00281	9.85719	0.15433	0.00799	0.70284
1.00000	-4.74407	1.52117	-0.21558	-1.89583	1.42377	-0.00278	10.14539	0.15081	0.00799	0.70423
1.02354	-4.78563	1.52307	-0.21632	-1.89904	1.42414	-0.00276	10.42256	0.14762	0.00794	0.70663
1.04767	-4.82970	1.52547	-0.21705	-1.90210	1.42435	-0.00273	10.69055	0.14473	0.00781	0.70994
1.07227	-4.87570	1.52827	-0.21777	-1.90500	1.42438	-0.00271	10.94868	0.14211	0.00763	0.71399
1.09745	-4.92304	1.53125	-0.21857	-1.90767	1.42418	-0.00269	11.19756	0.13972	0.00742	0.71861
1.12334	-4.97111	1.53413	-0.21948	-1.91002	1.42362	-0.00266	11.43728	0.13754	0.00719	0.72365
1.14982	-5.01914	1.53668	-0.22058	-1.91195	1.42265	-0.00264	11.66542	0.13556	0.00698	0.72894
1.17675	-5.06660	1.53885	-0.22184	-1.91349	1.42130	-0.00262	11.88107	0.13378	0.00677	0.73429
1.20453	-5.11436	1.54082	-0.22327	-1.91476	1.41965	-0.00260	12.08860	0.13216	0.00657	0.73967
1.23289	-5.16291	1.54279	-0.22479	-1.91575	1.41778	-0.00257	12.28599	0.13069	0.00636	0.74490
1.26183	-5.21160	1.54499	-0.22635	-1.91684	1.41597	-0.00255	12.47887	0.12936	0.00614	0.74997
1.29149	-5.26169	1.54758	-0.22793	-1.91795	1.41421	-0.00253	12.66774	0.12813	0.00589	0.75500
1.32188	-5.31339	1.55059	-0.22950	-1.91907	1.41250	-0.00251	12.85316	0.12700	0.00561	0.76007
1.35300	-5.36659	1.55392	-0.23109	-1.92014	1.41081	-0.00249	13.03490	0.12594	0.00532	0.76526
1.38485	-5.42099	1.55740	-0.23272	-1.92105	1.40905	-0.00247	13.21206	0.12495	0.00501	0.77063
1.41743	-5.47620	1.56084	-0.23443	-1.92170	1.40712	-0.00245	13.38339	0.12403	0.00472	0.77628
1.45075	-5.53184	1.56406	-0.23625	-1.92199	1.40496	-0.00243	13.54762	0.12316	0.00444	0.78223
1.48500	-5.58811	1.56700	-0.23821	-1.92188	1.40251	-0.00241	13.70483	0.12235	0.00419	0.78848
1.51999	-5.64471	1.56964	-0.24028	-1.92137	1.39979	-0.00239	13.85353	0.12160	0.00396	0.79499
1.55569	-5.70190	1.57208	-0.24245	-1.92049	1.39684	-0.00237	13.99402	0.12090	0.00374	0.80176
1.59236	-5.76113	1.57447	-0.24470	-1.91915	1.39363	-0.00236	14.12541	0.12027	0.00353	0.80884
1.62973	-5.82108	1.57696	-0.24697	-1.91771	1.39042	-0.00234	14.25224	0.11967	0.00332	0.81618
1.66806	-5.88315	1.57971	-0.24924	-1.91608	1.38716	-0.00232	14.37413	0.11913	0.00309	0.82385
1.70736	-5.94760	1.58280	-0.25149	-1.91430	1.38390	-0.00231	14.49175	0.11861	0.00284	0.83185
1.74764	-6.01466	1.58627	-0.25371	-1.91235	1.38065	-0.00229	14.60512	0.11813	0.00257	0.84018
1.78859	-6.08387	1.59007	-0.25587	-1.91021	1.37741	-0.00227	14.71315	0.11768	0.00229	0.84876
1.83083	-6.15627	1.59418	-0.25802	-1.90779	1.37410	-0.00226	14.81677	0.11725	0.00200	0.85770
1.87371	-6.23067	1.59845	-0.26013	-1.90505	1.37069	-0.00224	14.91321	0.11685	0.00171	0.86681
1.91791	-6.30815	1.60283	-0.26225	-1.90186	1.36709	-0.00223	15.00275	0.11646	0.00142	0.87616
1.96309	-6.38794	1.60719	-0.26438	-1.89818	1.36326	-0.00222	15.08357	0.11609	0.00115	0.88555

2.00924	-6.46987	1.61145	-0.26652	-1.89398	1.35917	-0.00221	15.15475	0.11574	0.00089	0.89483
2.05634	-6.55380	1.61557	-0.26869	-1.88925	1.35482	-0.00219	15.21574	0.11542	0.00066	0.90386
2.10482	-6.64119	1.61956	-0.27088	-1.88377	1.35007	-0.00218	15.26395	0.11513	0.00043	0.91256
2.15424	-6.72971	1.62343	-0.27308	-1.87796	1.34516	-0.00217	15.30457	0.11485	0.00023	0.92068
2.20507	-6.82089	1.62727	-0.27528	-1.87166	1.34000	-0.00216	15.33595	0.11460	0.00004	0.92820
2.25683	-6.91386	1.63110	-0.27746	-1.86500	1.33470	-0.00215	15.35856	0.11437	-0.00015	0.93511
2.31000	-7.00947	1.63506	-0.27960	-1.85800	1.32924	-0.00214	15.37368	0.11417	-0.00033	0.94158
2.36463	-7.10789	1.63922	-0.28170	-1.85070	1.32368	-0.00213	15.38184	0.11398	-0.00052	0.94772
2.42014	-7.20812	1.64359	-0.28370	-1.84322	1.31811	-0.00212	15.38380	0.11382	-0.00070	0.95361
2.47709	-7.31095	1.64827	-0.28562	-1.83559	1.31252	-0.00211	15.38081	0.11368	-0.00090	0.95946
2.53550	-7.41659	1.65330	-0.28745	-1.82778	1.30691	-0.00210	15.37264	0.11356	-0.00111	0.96543
2.59471	-7.52386	1.65862	-0.28917	-1.81990	1.30135	-0.00210	15.35961	0.11346	-0.00132	0.97160
2.65604	-7.63465	1.66435	-0.29078	-1.81187	1.29576	-0.00209	15.34276	0.11338	-0.00154	0.97816
2.71887	-7.74825	1.67042	-0.29229	-1.80364	1.29014	-0.00208	15.32059	0.11331	-0.00177	0.98510
2.78242	-7.86284	1.67673	-0.29369	-1.79541	1.28459	-0.00207	15.29420	0.11326	-0.00200	0.99237
2.84819	-7.98060	1.68335	-0.29496	-1.78702	1.27899	-0.00207	15.26390	0.11322	-0.00223	1.00023
2.91545	-8.10103	1.69024	-0.29618	-1.77836	1.27329	-0.00206	15.22680	0.11320	-0.00245	1.00861
2.98329	-8.22074	1.69717	-0.29722	-1.76990	1.26773	-0.00205	15.18794	0.11320	-0.00268	1.01731
3.05344	-8.34445	1.70437	-0.29823	-1.76097	1.26194	-0.00205	15.14075	0.11322	-0.00289	1.02631
3.12598	-8.47010	1.71173	-0.29911	-1.75205	1.25615	-0.00204	15.09084	0.11325	-0.00310	1.03545
3.19898	-8.59592	1.71906	-0.29993	-1.74294	1.25028	-0.00203	15.03422	0.11331	-0.00330	1.04417
3.27439	-8.72341	1.72653	-0.30062	-1.73384	1.24440	-0.00203	14.97477	0.11338	-0.00349	1.05249
3.35121	-8.85212	1.73402	-0.30126	-1.72451	1.23840	-0.00202	14.90879	0.11347	-0.00367	1.06010
3.43053	-8.98210	1.74163	-0.30177	-1.71527	1.23242	-0.00201	14.84082	0.11359	-0.00385	1.06737
3.51124	-9.11336	1.74925	-0.30223	-1.70572	1.22627	-0.00201	14.76569	0.11372	-0.00402	1.07438
3.59324	-9.24270	1.75683	-0.30250	-1.69669	1.22038	-0.00200	14.69301	0.11387	-0.00418	1.08151
3.67782	-9.37652	1.76465	-0.30283	-1.68693	1.21409	-0.00200	14.60881	0.11404	-0.00432	1.08912
3.76506	-9.50812	1.77242	-0.30281	-1.67807	1.20824	-0.00199	14.53247	0.11425	-0.00447	1.09767
3.85356	-9.64420	1.78054	-0.30299	-1.66821	1.20188	-0.00198	14.44093	0.11445	-0.00459	1.10685
3.94477	-9.77601	1.78843	-0.30269	-1.65965	1.19618	-0.00198	14.36265	0.11469	-0.00472	1.11674
4.03714	-9.91219	1.79683	-0.30259	-1.65023	1.19003	-0.00197	14.27069	0.11494	-0.00482	1.12679
4.13223	-10.04687	1.80508	-0.30219	-1.64138	1.18417	-0.00196	14.18384	0.11521	-0.00493	1.13698
4.23012	-10.18145	1.81364	-0.30156	-1.63312	1.17861	-0.00196	14.10119	0.11553	-0.00504	1.14699
4.32900	-10.32142	1.82262	-0.30122	-1.62355	1.17238	-0.00195	14.00081	0.11581	-0.00513	1.15618
4.43066	-10.45259	1.83110	-0.30010	-1.61630	1.16737	-0.00194	13.92622	0.11616	-0.00524	1.16492
4.53515	-10.59298	1.84061	-0.29934	-1.60762	1.16160	-0.00194	13.83179	0.11651	-0.00533	1.17297
4.64253	-10.73404	1.85006	-0.29845	-1.59886	1.15579	-0.00193	13.73578	0.11686	-0.00542	1.18043
4.75059	-10.86378	1.85903	-0.29679	-1.59272	1.15140	-0.00192	13.66825	0.11728	-0.00553	1.18737
4.86145	-11.00777	1.86936	-0.29584	-1.58395	1.14559	-0.00191	13.56740	0.11766	-0.00561	1.19364
4.97760	-11.14944	1.87930	-0.29442	-1.57608	1.14025	-0.00191	13.47694	0.11807	-0.00571	1.19962
5.09424	-11.27972	1.88885	-0.29221	-1.57089	1.13637	-0.00190	13.41549	0.11855	-0.00582	1.20525
5.21376	-11.42765	1.90005	-0.29093	-1.56235	1.13069	-0.00189	13.31254	0.11899	-0.00589	1.21034
5.33618	-11.56974	1.91047	-0.28926	-1.55475	1.12550	-0.00188	13.22091	0.11942	-0.00597	1.21519
5.46150	-11.69732	1.92017	-0.28640	-1.55086	1.12235	-0.00187	13.17089	0.11996	-0.00608	1.22009
5.58971	-11.84385	1.93185	-0.28449	-1.54361	1.11736	-0.00187	13.07858	0.12047	-0.00615	1.22473
5.72082	-11.99530	1.94353	-0.28297	-1.53484	1.11151	-0.00186	12.96881	0.12092	-0.00620	1.22930
5.85823	-12.12297	1.95334	-0.27956	-1.53175	1.10877	-0.00185	12.92514	0.12150	-0.00629	1.23444
5.99520	-12.25866	1.96455	-0.27656	-1.52739	1.10537	-0.00184	12.86352	0.12210	-0.00636	1.23951
6.13497	-12.41673	1.97759	-0.27496	-1.51835	1.09935	-0.00183	12.74523	0.12261	-0.00639	1.24443
6.28141	-12.55789	1.98856	-0.27227	-1.51245	1.09505	-0.00182	12.66577	0.12314	-0.00643	1.24975
6.42674	-12.67468	1.99809	-0.26807	-1.51170	1.09363	-0.00181	12.64542	0.12380	-0.00650	1.25531
6.57895	-12.81806	2.01050	-0.26486	-1.50700	1.08999	-0.00180	12.57466	0.12444	-0.00653	1.26093
6.73401	-12.98434	2.02460	-0.26320	-1.49720	1.08350	-0.00179	12.44274	0.12499	-0.00652	1.26638
6.89180	-13.11663	2.03495	-0.25995	-1.49293	1.08008	-0.00179	12.37964	0.12556	-0.00654	1.27215
7.05716	-13.23017	2.04443	-0.25482	-1.49406	1.07966	-0.00178	12.37849	0.12629	-0.00658	1.27833
7.22022	-13.36559	2.05647	-0.25101	-1.49093	1.07689	-0.00177	12.32354	0.12697	-0.00659	1.28401
7.39098	-13.53545	2.07148	-0.24893	-1.48155	1.07056	-0.00176	12.19079	0.12760	-0.00656	1.28937
7.56430	-13.68400	2.08342	-0.24642	-1.47437	1.06546	-0.00175	12.08876	0.12816	-0.00653	1.29451
7.73994	-13.77956	2.09092	-0.24076	-1.47764	1.06626	-0.00174	12.11417	0.12886	-0.00656	1.29964
7.92393	-13.90020	2.10169	-0.23560	-1.47811	1.06544	-0.00173	12.10121	0.12961	-0.00656	1.30430
8.11030	-14.04710	2.11514	-0.23178	-1.47386	1.06196	-0.00172	12.02758	0.13034	-0.00654	1.30831
8.29876	-14.22745	2.13116	-0.23019	-1.46236	1.05439	-0.00171	11.86381	0.13099	-0.00647	1.31165
8.49618	-14.35919	2.14131	-0.22670	-1.45829	1.05099	-0.00170	11.79804	0.13159	-0.00645	1.31511
8.69565	-14.43663	2.14730	-0.21989	-1.46522	1.05383	-0.00169	11.86888	0.13229	-0.00647	1.31869
8.90472	-14.55451	2.15803	-0.21425	-1.46671	1.05354	-0.00168	11.86695	0.13305	-0.00645	1.32196
9.11577	-14.69046	2.17066	-0.20950	-1.46494	1.05140	-0.00167	11.82209	0.13381	-0.00641	1.32502
9.32836	-14.87563	2.18785	-0.20734	-1.45401	1.04408	-0.00166	11.65722	0.13460	-0.00632	1.32781
9.54198	-15.03663	2.20108	-0.20556	-1.44424	1.03746	-0.00165	11.51549	0.13522	-0.00625	1.33084
9.76563	-15.09809	2.20457	-0.19884	-1.45221	1.04091	-0.00164	11.60422	0.13577	-0.00626	1.33490
10.00000	-15.17390	2.21116	-0.19137	-1.46062	1.04453	-0.00163	11.69493	0.13643	-0.00623	1.33946

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Atkinson and Boore (1995) model
Median stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 30 - 61 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-4.33503	2.30890	0.06234	-2.28539	1.69579	-0.00219	3.27231	0.38990	-0.03190	0.45247
PGV	1.58653	1.52900	-0.08003	-2.04548	1.43026	-0.00333	1.99872	0.47988	-0.02138	0.43662
PGA	-0.24390	1.54498	-0.00626	-2.30086	1.09624	-0.00320	1.80027	0.58563	-0.01786	0.68823
0.01000	0.04673	1.55906	-0.00337	-2.35837	1.07654	-0.00313	1.97791	0.57917	-0.00698	0.68621
0.01024	0.05773	1.56064	-0.00286	-2.36110	1.07296	-0.00312	1.98014	0.57969	-0.00695	0.68671
0.01048	0.07311	1.56225	-0.00236	-2.36465	1.06950	-0.00311	1.98516	0.58004	-0.00693	0.68728
0.01072	0.09295	1.56390	-0.00186	-2.36904	1.06612	-0.00310	1.99298	0.58023	-0.00694	0.68792
0.01097	0.11702	1.56560	-0.00135	-2.37423	1.06275	-0.00308	2.00340	0.58027	-0.00696	0.68865
0.01123	0.14518	1.56736	-0.00083	-2.38018	1.05932	-0.00307	2.01624	0.58019	-0.00701	0.68947
0.01150	0.17757	1.56919	-0.00030	-2.38692	1.05580	-0.00305	2.03157	0.57999	-0.00707	0.69038
0.01177	0.21476	1.57112	0.00025	-2.39458	1.05218	-0.00304	2.04977	0.57966	-0.00715	0.69138
0.01205	0.25720	1.57315	0.00081	-2.40322	1.04842	-0.00302	2.07109	0.57918	-0.00726	0.69249
0.01233	0.30544	1.57532	0.00141	-2.41298	1.04450	-0.00300	2.09589	0.57857	-0.00739	0.69377
0.01262	0.36020	1.57765	0.00204	-2.42399	1.04033	-0.00297	2.12462	0.57780	-0.00755	0.69524
0.01292	0.42096	1.58013	0.00270	-2.43611	1.03576	-0.00295	2.15687	0.57691	-0.00774	0.69691
0.01322	0.48705	1.58278	0.00340	-2.44922	1.03071	-0.00292	2.19207	0.57595	-0.00797	0.69879
0.01353	0.55841	1.58563	0.00415	-2.46334	1.02517	-0.00289	2.22998	0.57496	-0.00822	0.70095
0.01385	0.63616	1.58869	0.00495	-2.47868	1.01908	-0.00285	2.27136	0.57389	-0.00851	0.70338
0.01417	0.72129	1.59199	0.00580	-2.49537	1.01240	-0.00282	2.31700	0.57274	-0.00884	0.70610
0.01451	0.81342	1.59550	0.00671	-2.51332	1.00502	-0.00278	2.36669	0.57151	-0.00921	0.70919
0.01485	0.91087	1.59922	0.00767	-2.53213	0.99670	-0.00274	2.41917	0.57031	-0.00962	0.71262
0.01520	1.01240	1.60316	0.00869	-2.55158	0.98736	-0.00270	2.47341	0.56919	-0.01004	0.71628
0.01556	1.11765	1.60732	0.00980	-2.57162	0.97708	-0.00265	2.52896	0.56816	-0.01047	0.72021
0.01592	1.22787	1.61177	0.01097	-2.59252	0.96575	-0.00260	2.58649	0.56723	-0.01094	0.72452
0.01630	1.34283	1.61661	0.01221	-2.61431	0.95324	-0.00255	2.64534	0.56643	-0.01143	0.72915
0.01668	1.46042	1.62184	0.01349	-2.63664	0.93959	-0.00250	2.70351	0.56585	-0.01190	0.73386
0.01707	1.57361	1.62725	0.01480	-2.65804	0.92467	-0.00245	2.75567	0.56568	-0.01234	0.73855
0.01748	1.67348	1.63259	0.01612	-2.67658	0.90816	-0.00240	2.79538	0.56618	-0.01279	0.74341
0.01789	1.76106	1.63787	0.01747	-2.69238	0.89008	-0.00235	2.82434	0.56723	-0.01327	0.74863
0.01831	1.83939	1.64312	0.01885	-2.70605	0.87063	-0.00231	2.84542	0.56871	-0.01377	0.75414
0.01874	1.89927	1.64828	0.02033	-2.71596	0.84965	-0.00227	2.85101	0.57092	-0.01423	0.75944
0.01918	1.93453	1.65332	0.02191	-2.72113	0.82768	-0.00223	2.83624	0.57403	-0.01461	0.76432
0.01963	1.95509	1.65834	0.02359	-2.72365	0.80662	-0.00221	2.81045	0.57755	-0.01494	0.76892
0.02009	1.96737	1.66335	0.02532	-2.72464	0.78715	-0.00219	2.78062	0.58119	-0.01524	0.77339
0.02057	1.96301	1.66816	0.02702	-2.72235	0.76794	-0.00218	2.74018	0.58526	-0.01551	0.77763
0.02105	1.93535	1.67263	0.02865	-2.71552	0.74822	-0.00217	2.68313	0.59007	-0.01566	0.78115
0.02154	1.89596	1.67684	0.03023	-2.70634	0.72869	-0.00217	2.61955	0.59519	-0.01566	0.78366
0.02205	1.85989	1.68107	0.03175	-2.69772	0.71014	-0.00217	2.56265	0.60001	-0.01553	0.78529
0.02257	1.82426	1.68535	0.03325	-2.68916	0.69268	-0.00217	2.51061	0.60461	-0.01525	0.78599
0.02310	1.76133	1.68939	0.03489	-2.67556	0.67589	-0.00219	2.44230	0.60999	-0.01482	0.78571
0.02364	1.65015	1.69292	0.03677	-2.65309	0.65973	-0.00222	2.34277	0.61698	-0.01431	0.78485
0.02420	1.51989	1.69617	0.03870	-2.62726	0.64533	-0.00225	2.23441	0.62454	-0.01383	0.78414
0.02477	1.41586	1.69938	0.04040	-2.60642	0.63376	-0.00229	2.14916	0.63090	-0.01343	0.78388
0.02535	1.34168	1.70243	0.04178	-2.59106	0.62430	-0.00232	2.08775	0.63587	-0.01304	0.78352
0.02595	1.27291	1.70514	0.04297	-2.57652	0.61543	-0.00235	2.03228	0.64047	-0.01261	0.78269
0.02656	1.19054	1.70732	0.04414	-2.55924	0.60667	-0.00238	1.97006	0.64550	-0.01216	0.78156
0.02719	1.09009	1.70885	0.04530	-2.53835	0.59836	-0.00242	1.89881	0.65111	-0.01173	0.78042
0.02783	0.98575	1.70988	0.04625	-2.51659	0.59080	-0.00246	1.82741	0.65676	-0.01124	0.77892
0.02848	0.89469	1.71078	0.04683	-2.49731	0.58333	-0.00249	1.76580	0.66184	-0.01057	0.77628
0.02915	0.80416	1.71161	0.04727	-2.47808	0.57492	-0.00252	1.70633	0.66692	-0.00976	0.77280
0.02984	0.69120	1.71242	0.04804	-2.45470	0.56562	-0.00255	1.63636	0.67302	-0.00898	0.76971
0.03054	0.56470	1.71334	0.04921	-2.42884	0.55638	-0.00259	1.56197	0.67975	-0.00835	0.76757
0.03126	0.44157	1.71431	0.05054	-2.40351	0.54770	-0.00263	1.49244	0.68638	-0.00779	0.76585
0.03199	0.32588	1.71499	0.05172	-2.37942	0.53974	-0.00267	1.42865	0.69269	-0.00719	0.76380
0.03275	0.21500	1.71490	0.05267	-2.35607	0.53370	-0.00271	1.36855	0.69864	-0.00655	0.76141
0.03352	0.09764	1.71381	0.05361	-2.33122	0.53071	-0.00276	1.30739	0.70458	-0.00591	0.75910
0.03430	-0.02343	1.71221	0.05461	-2.30524	0.52990	-0.00282	1.24802	0.71044	-0.00520	0.75655
0.03511	-0.13690	1.71069	0.05554	-2.28040	0.52948	-0.00288	1.19542	0.71590	-0.00430	0.75283
0.03594	-0.24753	1.70922	0.05627	-2.25633	0.52911	-0.00293	1.14465	0.72136	-0.00324	0.74791
0.03678	-0.35567	1.70741	0.05669	-2.23319	0.53056	-0.00299	1.09418	0.72680	-0.00226	0.74323
0.03765	-0.45435	1.70503	0.05686	-2.21181	0.53482	-0.00304	1.04852	0.73164	-0.00155	0.74026
0.03854	-0.54204	1.70214	0.05689	-2.19177	0.53993	-0.00310	1.00985	0.73575	-0.00108	0.73893
0.03944	-0.61677	1.69892	0.05678	-2.17311	0.54390	-0.00315	0.97924	0.73909	-0.00065	0.73806
0.04037	-0.66946	1.69573	0.05639	-2.15784	0.54777	-0.00320	0.96027	0.74109	-0.00009	0.73645
0.04132	-0.70196	1.69297	0.05584	-2.14633	0.55330	-0.00325	0.95176	0.74175	0.00062	0.73384
0.04229	-0.73747	1.69087	0.05553	-2.13503	0.56018	-0.00330	0.94296	0.74248	0.00134	0.73118
0.04329	-0.79996	1.68955	0.05580	-2.12001	0.56722	-0.00336	0.92237	0.74487	0.00194	0.72919
0.04431	-0.89278	1.68881	0.05650	-2.10063	0.57442	-0.00342	0.88796	0.74931	0.00254	0.72700
0.04535	-1.00237	1.68816	0.05727	-2.07870	0.58203	-0.00349	0.84599	0.75502	0.00334	0.72331

0.04642	-1.10718	1.68670	0.05779	-2.05692	0.58956	-0.00356	0.80636	0.76057	0.00427	0.71846
0.04751	-1.19028	1.68385	0.05782	-2.03740	0.59613	-0.00362	0.77618	0.76474	0.00513	0.71370
0.04863	-1.24807	1.68002	0.05723	-2.02113	0.60162	-0.00367	0.75654	0.76726	0.00591	0.70929
0.04977	-1.28582	1.67602	0.05604	-2.00829	0.60648	-0.00371	0.74447	0.76853	0.00673	0.70447
0.05094	-1.30920	1.67238	0.05444	-1.99881	0.61124	-0.00374	0.73691	0.76899	0.00763	0.69903
0.05214	-1.32488	1.66918	0.05276	-1.99163	0.61632	-0.00376	0.73146	0.76905	0.00858	0.69338
0.05337	-1.34739	1.66612	0.05140	-1.98351	0.62094	-0.00379	0.72329	0.76960	0.00950	0.68787
0.05462	-1.39660	1.66259	0.05070	-1.96997	0.62316	-0.00381	0.70512	0.77203	0.01035	0.68283
0.05591	-1.47984	1.65787	0.05062	-1.94898	0.62307	-0.00385	0.67453	0.77685	0.01107	0.67861
0.05722	-1.57972	1.65172	0.05070	-1.92355	0.62409	-0.00389	0.63881	0.78273	0.01165	0.67527
0.05857	-1.66966	1.64450	0.05025	-1.89912	0.62980	-0.00395	0.60773	0.78762	0.01227	0.67173
0.05995	-1.73435	1.63646	0.04888	-1.87899	0.64069	-0.00401	0.58588	0.79035	0.01303	0.66722
0.06136	-1.77106	1.62774	0.04667	-1.86375	0.65430	-0.00407	0.57353	0.79076	0.01382	0.66254
0.06280	-1.78472	1.61886	0.04402	-1.85272	0.66777	-0.00412	0.56908	0.78935	0.01442	0.65913
0.06428	-1.78702	1.61048	0.04129	-1.84417	0.67872	-0.00415	0.56870	0.78720	0.01475	0.65757
0.06579	-1.79386	1.60278	0.03859	-1.83539	0.68552	-0.00418	0.56642	0.78572	0.01491	0.65724
0.06734	-1.82125	1.59502	0.03596	-1.82295	0.68777	-0.00419	0.55607	0.78622	0.01501	0.65723
0.06893	-1.87343	1.58597	0.03327	-1.80485	0.68680	-0.00420	0.53639	0.78885	0.01506	0.65739
0.07055	-1.93552	1.57508	0.03030	-1.78294	0.68530	-0.00421	0.51360	0.79220	0.01502	0.65795
0.07221	-1.98807	1.56325	0.02705	-1.76132	0.68602	-0.00423	0.49551	0.79443	0.01490	0.65901
0.07391	-2.02216	1.55218	0.02383	-1.74329	0.69147	-0.00426	0.48601	0.79457	0.01471	0.66029
0.07565	-2.04016	1.54344	0.02108	-1.73030	0.70344	-0.00431	0.48461	0.79274	0.01457	0.66091
0.07743	-2.05146	1.53778	0.01900	-1.72189	0.72175	-0.00437	0.48749	0.78998	0.01465	0.65968
0.07925	-2.06483	1.53465	0.01748	-1.71630	0.74375	-0.00444	0.49019	0.78742	0.01498	0.65652
0.08111	-2.07979	1.53259	0.01616	-1.71215	0.76599	-0.00451	0.49137	0.78532	0.01532	0.65318
0.08302	-2.08755	1.53021	0.01458	-1.70934	0.78607	-0.00456	0.49336	0.78300	0.01540	0.65161
0.08498	-2.08400	1.52669	0.01246	-1.70761	0.80253	-0.00459	0.49749	0.78006	0.01515	0.65220
0.08697	-2.07753	1.52176	0.00982	-1.70502	0.81469	-0.00461	0.50143	0.77708	0.01468	0.65446
0.08902	-2.08060	1.51595	0.00689	-1.69973	0.82286	-0.00461	0.50196	0.77491	0.01419	0.65722
0.09112	-2.09749	1.51008	0.00379	-1.69173	0.82806	-0.00461	0.49852	0.77378	0.01389	0.65924
0.09326	-2.12231	1.50413	0.00050	-1.68223	0.83212	-0.00461	0.49304	0.77310	0.01373	0.66080
0.09545	-2.14414	1.49737	-0.00309	-1.67286	0.83754	-0.00462	0.48835	0.77189	0.01356	0.66266
0.09770	-2.15384	1.48939	-0.00708	-1.66512	0.84691	-0.00462	0.48703	0.76929	0.01342	0.66459
0.10000	-2.14641	1.48061	-0.01144	-1.66008	0.86204	-0.00464	0.49152	0.76476	0.01332	0.66637
0.10235	-2.12145	1.47212	-0.01600	-1.65850	0.88286	-0.00467	0.50345	0.75820	0.01330	0.66775
0.10476	-2.07973	1.46516	-0.02052	-1.66138	0.90801	-0.00471	0.52383	0.74981	0.01337	0.66837
0.10723	-2.02231	1.46033	-0.02485	-1.66926	0.93577	-0.00475	0.55299	0.73992	0.01349	0.66840
0.10975	-1.95487	1.45753	-0.02894	-1.68112	0.96455	-0.00479	0.58898	0.72927	0.01368	0.66778
0.11233	-1.88959	1.45598	-0.03268	-1.69399	0.99205	-0.00482	0.62660	0.71905	0.01396	0.66645
0.11498	-1.83922	1.45440	-0.03602	-1.70420	1.01581	-0.00484	0.65950	0.71032	0.01417	0.66542
0.11768	-1.80813	1.45165	-0.03907	-1.70973	1.03450	-0.00486	0.68439	0.70331	0.01413	0.66601
0.12045	-1.79357	1.44759	-0.04206	-1.71089	1.04738	-0.00486	0.70135	0.69783	0.01386	0.66819
0.12328	-1.79079	1.44298	-0.04518	-1.70924	1.05360	-0.00484	0.71206	0.69361	0.01354	0.67072
0.12619	-1.79718	1.43866	-0.04842	-1.70610	1.05281	-0.00480	0.71778	0.69051	0.01328	0.67280
0.12916	-1.80780	1.43523	-0.05177	-1.70296	1.04691	-0.00474	0.72135	0.68807	0.01300	0.67464
0.13219	-1.81499	1.43302	-0.05525	-1.70159	1.03962	-0.00468	0.72717	0.68548	0.01267	0.67638
0.13531	-1.81252	1.43188	-0.05890	-1.70311	1.03429	-0.00462	0.73869	0.68204	0.01229	0.67802
0.13849	-1.80045	1.43104	-0.06262	-1.70682	1.03294	-0.00457	0.75583	0.67765	0.01180	0.67992
0.14175	-1.78181	1.42963	-0.06624	-1.71141	1.03656	-0.00454	0.77698	0.67243	0.01118	0.68238
0.14508	-1.76277	1.42727	-0.06956	-1.71547	1.04464	-0.00451	0.79894	0.66687	0.01051	0.68492
0.14850	-1.75263	1.42389	-0.07235	-1.71716	1.05522	-0.00450	0.81686	0.66173	0.00990	0.68687
0.15199	-1.75968	1.41940	-0.07456	-1.71465	1.06626	-0.00450	0.82638	0.65768	0.00933	0.68838
0.15557	-1.78486	1.41379	-0.07636	-1.70749	1.07608	-0.00450	0.82708	0.65477	0.00877	0.68993
0.15923	-1.82494	1.40714	-0.07803	-1.69624	1.08302	-0.00451	0.82072	0.65281	0.00827	0.69147
0.16298	-1.87579	1.39989	-0.07981	-1.68207	1.08650	-0.00450	0.80979	0.65150	0.00791	0.69269
0.16681	-1.93518	1.39284	-0.08168	-1.66630	1.08731	-0.00449	0.79621	0.65065	0.00769	0.69360
0.17074	-2.00477	1.38707	-0.08341	-1.64980	1.08659	-0.00448	0.77957	0.65050	0.00756	0.69441
0.17475	-2.08405	1.38357	-0.08484	-1.63377	1.08537	-0.00446	0.76041	0.65113	0.00742	0.69551
0.17887	-2.17079	1.38277	-0.08604	-1.61919	1.08379	-0.00445	0.73955	0.65252	0.00725	0.69714
0.18307	-2.26128	1.38436	-0.08728	-1.60654	1.08135	-0.00444	0.71792	0.65450	0.00708	0.69902
0.18738	-2.35277	1.38734	-0.08884	-1.59551	1.07754	-0.00442	0.69544	0.65690	0.00687	0.70116
0.19179	-2.44246	1.39045	-0.09086	-1.58546	1.07225	-0.00439	0.67217	0.65947	0.00647	0.70434
0.19631	-2.52688	1.39268	-0.09345	-1.57617	1.06556	-0.00435	0.64949	0.66174	0.00583	0.70889
0.20092	-2.60297	1.39375	-0.09659	-1.56792	1.05813	-0.00430	0.62914	0.66329	0.00505	0.71402
0.20565	-2.66517	1.39390	-0.10031	-1.56198	1.05165	-0.00425	0.61480	0.66336	0.00435	0.71860
0.21049	-2.70794	1.39364	-0.10458	-1.55985	1.04835	-0.00419	0.61045	0.66113	0.00382	0.72205
0.21544	-2.72832	1.39354	-0.10923	-1.56265	1.05007	-0.00413	0.61882	0.65611	0.00346	0.72447
0.22051	-2.72703	1.39413	-0.11400	-1.57073	1.05731	-0.00408	0.64080	0.64840	0.00319	0.72615
0.22570	-2.70600	1.39570	-0.11864	-1.58394	1.06927	-0.00404	0.67674	0.63834	0.00291	0.72771
0.23101	-2.66960	1.39817	-0.12303	-1.60116	1.08417	-0.00399	0.72550	0.62665	0.00249	0.73000
0.23645	-2.62424	1.40122	-0.12712	-1.62060	1.10015	-0.00394	0.78460	0.61411	0.00183	0.73381
0.24201	-2.57468	1.40458	-0.13087	-1.64090	1.11608	-0.00390	0.85167	0.60140	0.00088	0.73953
0.24771	-2.52269	1.40813	-0.13433	-1.66149	1.13151	-0.00385	0.92614	0.58873	-0.00029	0.74674
0.25354	-2.46920	1.41176	-0.13760	-1.68197	1.14627	-0.00380	1.00770	0.57626	-0.00151	0.75442
0.25950	-2.41271	1.41529	-0.14078	-1.70247	1.16074	-0.00376	1.09785	0.56383	-0.00266	0.76178
0.26561	-2.35474	1.41848	-0.14388	-1.72248	1.17479	-0.00372	1.19551	0.55160	-0.00370	0.76854
0.27186	-2.29979	1.42110	-0.14683	-1.74089	1.18801	-0.00367	1.29707	0.53989	-0.00463	0.77467
0.27826	-2.25357	1.42297	-0.14962	-1.75637	1.19999	-0.00364	1.39781	0.52901	-0.00541	0.77991
0.28480	-2.22126	1.42406	-0.15231	-1.76780	1.21042	-0.00361	1.49240	0.51925	-0.00597	0.78380
0.29150	-2.20303	1.42449	-0.15497	-1.77527	1.21940	-0.00359	1.57962	0.51055	-0.00625	0.78603
0.29836	-2.19497	1.42442	-0.15765	-1.77970	1.22724	-0.00357	1.66156	0.50263	-0.00627	0.78667

0.30539	-2.19527	1.42397	-0.16032	-1.78158	1.23395	-0.00356	1.73952	0.49535	-0.00609	0.78609
0.31257	-2.20305	1.42319	-0.16291	-1.78114	1.23922	-0.00355	1.81360	0.48864	-0.00580	0.78485
0.31993	-2.21784	1.42216	-0.16534	-1.77860	1.24282	-0.00354	1.88349	0.48250	-0.00548	0.78352
0.32745	-2.23910	1.42106	-0.16752	-1.77430	1.24462	-0.00353	1.94878	0.47694	-0.00519	0.78252
0.33517	-2.26549	1.42001	-0.16945	-1.76869	1.24470	-0.00351	2.00925	0.47196	-0.00498	0.78212
0.34304	-2.29474	1.41925	-0.17111	-1.76255	1.24348	-0.00350	2.06576	0.46753	-0.00486	0.78249
0.35112	-2.32453	1.41909	-0.17251	-1.75670	1.24155	-0.00348	2.12066	0.46353	-0.00481	0.78350
0.35938	-2.35275	1.41971	-0.17368	-1.75186	1.23959	-0.00346	2.17473	0.45994	-0.00475	0.78461
0.36784	-2.38248	1.42135	-0.17462	-1.74778	1.23796	-0.00344	2.22449	0.45693	-0.00458	0.78513
0.37649	-2.41696	1.42411	-0.17531	-1.74406	1.23685	-0.00342	2.26546	0.45464	-0.00426	0.78449
0.38536	-2.45974	1.42777	-0.17584	-1.73990	1.23614	-0.00341	2.29248	0.45326	-0.00373	0.78234
0.39442	-2.51676	1.43214	-0.17621	-1.73403	1.23534	-0.00341	2.29900	0.45295	-0.00301	0.77870
0.40370	-2.59078	1.43716	-0.17646	-1.72585	1.23451	-0.00341	2.28347	0.45371	-0.00216	0.77396
0.41321	-2.68234	1.44262	-0.17670	-1.71509	1.23364	-0.00343	2.24539	0.45554	-0.00123	0.76853
0.42292	-2.79084	1.44830	-0.17699	-1.70165	1.23263	-0.00345	2.18687	0.45834	-0.00026	0.76274
0.43288	-2.91454	1.45407	-0.17735	-1.68587	1.23125	-0.00348	2.11274	0.46181	0.00072	0.75690
0.44307	-3.04680	1.45989	-0.17785	-1.66910	1.22925	-0.00351	2.03108	0.46558	0.00162	0.75164
0.45349	-3.18203	1.46579	-0.17855	-1.65259	1.22685	-0.00354	1.94824	0.46940	0.00240	0.74748
0.46417	-3.31570	1.47193	-0.17938	-1.63742	1.22452	-0.00356	1.87147	0.47283	0.00296	0.74497
0.47508	-3.44548	1.47838	-0.18024	-1.62417	1.22261	-0.00359	1.80564	0.47546	0.00325	0.74455
0.48626	-3.56992	1.48489	-0.18117	-1.61288	1.22126	-0.00360	1.75209	0.47712	0.00325	0.74642
0.49771	-3.68838	1.49103	-0.18224	-1.60322	1.22011	-0.00362	1.71057	0.47770	0.00294	0.75071
0.50942	-3.80191	1.49675	-0.18346	-1.59492	1.21871	-0.00362	1.68027	0.47716	0.00233	0.75734
0.52140	-3.91429	1.50234	-0.18474	-1.58748	1.21701	-0.00363	1.65818	0.47566	0.00153	0.76565
0.53367	-4.02655	1.50793	-0.18608	-1.58080	1.21509	-0.00363	1.64241	0.47340	0.00062	0.77495
0.54624	-4.13992	1.51345	-0.18752	-1.57458	1.21314	-0.00363	1.62976	0.47065	-0.00032	0.78484
0.55910	-4.25453	1.51884	-0.18906	-1.56877	1.21141	-0.00363	1.61921	0.46745	-0.00128	0.79498
0.57225	-4.36857	1.52420	-0.19067	-1.56383	1.21014	-0.00363	1.61337	0.46357	-0.00223	0.80504
0.58569	-4.47795	1.52957	-0.19235	-1.56058	1.20951	-0.00362	1.61699	0.45870	-0.00316	0.81488
0.59948	-4.57917	1.53463	-0.19411	-1.55939	1.20972	-0.00361	1.63445	0.45254	-0.00406	0.82444
0.61357	-4.66642	1.53904	-0.19601	-1.56086	1.21162	-0.00360	1.67199	0.44474	-0.00492	0.83366
0.62802	-4.73597	1.54279	-0.19805	-1.56578	1.21583	-0.00358	1.73763	0.43487	-0.00571	0.84236
0.64280	-4.78753	1.54615	-0.20010	-1.57433	1.22246	-0.00356	1.83658	0.42285	-0.00639	0.85000
0.65794	-4.82382	1.54930	-0.20206	-1.58608	1.23139	-0.00353	1.97109	0.40895	-0.00688	0.85597
0.67340	-4.84697	1.55216	-0.20389	-1.60039	1.24179	-0.00351	2.14114	0.39367	-0.00708	0.85980
0.68927	-4.85957	1.55456	-0.20558	-1.61663	1.25245	-0.00348	2.34685	0.37744	-0.00694	0.86119
0.70547	-4.86547	1.55621	-0.20713	-1.63348	1.26292	-0.00344	2.58547	0.36071	-0.00645	0.86005
0.72207	-4.86828	1.55723	-0.20851	-1.65028	1.27332	-0.00340	2.85833	0.34361	-0.00566	0.85639
0.73910	-4.87138	1.55800	-0.20966	-1.66663	1.28359	-0.00337	3.16411	0.32647	-0.00458	0.85011
0.75649	-4.87795	1.55871	-0.21054	-1.68195	1.29342	-0.00334	3.49628	0.30972	-0.00326	0.84128
0.77429	-4.88886	1.55930	-0.21123	-1.69600	1.30277	-0.00331	3.84960	0.29361	-0.00172	0.83006
0.79246	-4.90294	1.55950	-0.21180	-1.70870	1.31172	-0.00328	4.21826	0.27833	-0.00006	0.81700
0.81116	-4.91780	1.55919	-0.21231	-1.72057	1.32057	-0.00325	4.60614	0.26373	0.00163	0.80287
0.83022	-4.93141	1.55853	-0.21271	-1.73200	1.32939	-0.00323	5.01211	0.24988	0.00321	0.78875
0.84976	-4.94451	1.55781	-0.21297	-1.74325	1.33821	-0.00320	5.43813	0.23669	0.00461	0.77533
0.86972	-4.95962	1.55729	-0.21305	-1.75397	1.34665	-0.00318	5.87591	0.22431	0.00579	0.76325
0.89023	-4.98012	1.55702	-0.21298	-1.76359	1.35431	-0.00315	6.31683	0.21278	0.00675	0.75279
0.91116	-5.00745	1.55682	-0.21284	-1.77154	1.36082	-0.00313	6.74625	0.20228	0.00755	0.74412
0.93257	-5.04056	1.55646	-0.21273	-1.77783	1.36619	-0.00310	7.16125	0.19272	0.00824	0.73699
0.95456	-5.07749	1.55574	-0.21274	-1.78272	1.37060	-0.00308	7.56413	0.18395	0.00886	0.73120
0.97704	-5.11562	1.55475	-0.21290	-1.78676	1.37440	-0.00306	7.95828	0.17589	0.00941	0.72674
1.00000	-5.15452	1.55376	-0.21316	-1.79029	1.37780	-0.00304	8.34486	0.16850	0.00987	0.72359
1.02354	-5.19500	1.55306	-0.21349	-1.79349	1.38086	-0.00302	8.72389	0.16172	0.01022	0.72173
1.04767	-5.23805	1.55283	-0.21387	-1.79636	1.38350	-0.00300	9.09120	0.15556	0.01048	0.72110
1.07227	-5.28372	1.55307	-0.21431	-1.79881	1.38562	-0.00298	9.44113	0.15006	0.01063	0.72156
1.09745	-5.33221	1.55362	-0.21486	-1.80073	1.38710	-0.00296	9.77047	0.14518	0.01071	0.72294
1.12334	-5.38291	1.55424	-0.21557	-1.80205	1.38788	-0.00295	10.07798	0.14088	0.01074	0.72511
1.14982	-5.43437	1.55475	-0.21648	-1.80286	1.38801	-0.00293	10.36235	0.13714	0.01073	0.72790
1.17675	-5.48579	1.55511	-0.21757	-1.80325	1.38756	-0.00291	10.62233	0.13394	0.01069	0.73114
1.20453	-5.53756	1.55541	-0.21884	-1.80341	1.38664	-0.00289	10.86427	0.13118	0.01061	0.73472
1.23289	-5.58961	1.55584	-0.22021	-1.80343	1.38538	-0.00287	11.08719	0.12885	0.01049	0.73846
1.26183	-5.64155	1.55662	-0.22164	-1.80363	1.38398	-0.00285	11.29627	0.12689	0.01032	0.74231
1.29149	-5.69401	1.55787	-0.22310	-1.80405	1.38251	-0.00283	11.49479	0.12523	0.01008	0.74635
1.32188	-5.74682	1.55963	-0.22456	-1.80478	1.38104	-0.00281	11.68541	0.12383	0.00980	0.75065
1.35300	-5.79947	1.56183	-0.22603	-1.80585	1.37961	-0.00279	11.87038	0.12265	0.00946	0.75526
1.38485	-5.85120	1.56432	-0.22755	-1.80728	1.37824	-0.00277	12.05148	0.12165	0.00910	0.76024
1.41743	-5.90143	1.56691	-0.22914	-1.80900	1.37692	-0.00275	12.22924	0.12080	0.00871	0.76565
1.45075	-5.94985	1.56943	-0.23084	-1.81091	1.37560	-0.00273	12.40319	0.12009	0.00833	0.77149
1.48500	-5.99657	1.57180	-0.23266	-1.81296	1.37426	-0.00271	12.57427	0.11949	0.00794	0.77776
1.51999	-6.04155	1.57398	-0.23461	-1.81508	1.37288	-0.00268	12.74097	0.11899	0.00757	0.78438
1.55569	-6.08549	1.57603	-0.23665	-1.81719	1.37145	-0.00266	12.90253	0.11858	0.00721	0.79132
1.59236	-6.13026	1.57807	-0.23877	-1.81908	1.36986	-0.00264	13.05710	0.11826	0.00685	0.79864
1.62973	-6.17563	1.58022	-0.24092	-1.82088	1.36822	-0.00262	13.20607	0.11799	0.00649	0.80625
1.66806	-6.22347	1.58262	-0.24307	-1.82238	1.36643	-0.00260	13.34765	0.11778	0.00611	0.81421
1.70736	-6.27460	1.58534	-0.24520	-1.82350	1.36446	-0.00258	13.48097	0.11761	0.00572	0.82250
1.74764	-6.32963	1.58841	-0.24730	-1.82416	1.36228	-0.00256	13.60514	0.11748	0.00532	0.83114
1.78859	-6.38831	1.59179	-0.24934	-1.82429	1.35989	-0.00254	13.71884	0.11737	0.00491	0.84001
1.83083	-6.45140	1.59547	-0.25137	-1.82388	1.35725	-0.00253	13.82382	0.11728	0.00450	0.84923
1.87371	-6.51752	1.59932	-0.25335	-1.82292	1.35439	-0.00251	13.91877	0.11720	0.00410	0.85862
1.91791	-6.58721	1.60330	-0.25533	-1.82143	1.35127	-0.00249	14.00559	0.11713	0.00370	0.86822
1.96309	-6.65940	1.60729	-0.25731	-1.81942	1.34794	-0.00248	14.08391	0.11707	0.00333	0.87784

2.00924	-6.73355	1.61121	-0.25930	-1.81693	1.34440	-0.00246	14.15421	0.11701	0.00298	0.88732
2.05634	-6.80996	1.61501	-0.26131	-1.81385	1.34060	-0.00244	14.21436	0.11697	0.00267	0.89653
2.10482	-6.88783	1.61873	-0.26334	-1.81046	1.33667	-0.00243	14.26966	0.11692	0.00237	0.90538
2.15424	-6.96709	1.62235	-0.26537	-1.80668	1.33259	-0.00242	14.31742	0.11689	0.00210	0.91362
2.20507	-7.04860	1.62595	-0.26741	-1.80248	1.32833	-0.00240	14.35795	0.11686	0.00186	0.92121
2.25683	-7.13187	1.62955	-0.26942	-1.79791	1.32393	-0.00239	14.39056	0.11685	0.00163	0.92817
2.31000	-7.21800	1.63327	-0.27140	-1.79294	1.31937	-0.00238	14.41526	0.11686	0.00141	0.93465
2.36463	-7.30745	1.63716	-0.27334	-1.78754	1.31464	-0.00237	14.43136	0.11688	0.00119	0.94078
2.42014	-7.39958	1.64126	-0.27519	-1.78177	1.30978	-0.00235	14.43841	0.11692	0.00098	0.94662
2.47709	-7.49535	1.64564	-0.27696	-1.77559	1.30477	-0.00234	14.43670	0.11699	0.00077	0.95240
2.53550	-7.59503	1.65034	-0.27865	-1.76900	1.29958	-0.00233	14.42573	0.11708	0.00055	0.95829
2.59471	-7.69750	1.65532	-0.28023	-1.76206	1.29429	-0.00232	14.40575	0.11718	0.00033	0.96437
2.65604	-7.80471	1.66068	-0.28172	-1.75471	1.28882	-0.00231	14.37709	0.11732	0.00010	0.97083
2.71887	-7.91567	1.66636	-0.28311	-1.74696	1.28318	-0.00230	14.33946	0.11747	-0.00013	0.97765
2.78242	-8.02854	1.67228	-0.28439	-1.73899	1.27748	-0.00229	14.29442	0.11765	-0.00036	0.98481
2.84819	-8.14541	1.67850	-0.28555	-1.73069	1.27163	-0.00228	14.24206	0.11785	-0.00059	0.99255
2.91545	-8.26522	1.68500	-0.28667	-1.72205	1.26564	-0.00227	14.18198	0.11806	-0.00081	1.00082
2.98329	-8.38489	1.69153	-0.28762	-1.71348	1.25973	-0.00226	14.11843	0.11830	-0.00103	1.00941
3.05344	-8.50830	1.69835	-0.28854	-1.70451	1.25361	-0.00226	14.04755	0.11855	-0.00124	1.01831
3.12598	-8.63389	1.70532	-0.28933	-1.69548	1.24747	-0.00225	13.97300	0.11883	-0.00145	1.02733
3.19898	-8.75913	1.71231	-0.29007	-1.68638	1.24133	-0.00224	13.89462	0.11911	-0.00164	1.03594
3.27439	-8.88598	1.71942	-0.29069	-1.67729	1.23519	-0.00223	13.81364	0.11942	-0.00183	1.04412
3.35121	-9.01342	1.72658	-0.29126	-1.66809	1.22901	-0.00222	13.72925	0.11973	-0.00201	1.05161
3.43053	-9.14201	1.73385	-0.29170	-1.65900	1.22288	-0.00221	13.64343	0.12007	-0.00218	1.05873
3.51124	-9.27106	1.74117	-0.29211	-1.64979	1.21671	-0.00221	13.55443	0.12041	-0.00233	1.06560
3.59324	-9.39837	1.74844	-0.29233	-1.64102	1.21078	-0.00220	13.46766	0.12078	-0.00248	1.07258
3.67782	-9.52902	1.75598	-0.29260	-1.63180	1.20460	-0.00219	13.37431	0.12114	-0.00261	1.08004
3.76506	-9.65824	1.76343	-0.29255	-1.62323	1.19878	-0.00218	13.28578	0.12155	-0.00274	1.08844
3.85356	-9.79050	1.77130	-0.29268	-1.61405	1.19262	-0.00217	13.18856	0.12195	-0.00286	1.09750
3.94477	-9.91984	1.77886	-0.29235	-1.60577	1.18697	-0.00217	13.09949	0.12238	-0.00297	1.10725
4.03714	-10.05239	1.78699	-0.29223	-1.59696	1.18102	-0.00216	13.00192	0.12282	-0.00307	1.11718
4.13223	-10.18407	1.79496	-0.29181	-1.58852	1.17528	-0.00215	12.90753	0.12328	-0.00316	1.12724
4.23012	-10.31627	1.80319	-0.29117	-1.58051	1.16978	-0.00214	12.81481	0.12378	-0.00326	1.13711
4.32900	-10.45245	1.81194	-0.29081	-1.57162	1.16377	-0.00213	12.71117	0.12425	-0.00334	1.14621
4.43066	-10.58232	1.82007	-0.28970	-1.56431	1.15869	-0.00212	12.62341	0.12478	-0.00343	1.15479
4.53515	-10.72005	1.82930	-0.28893	-1.55600	1.15300	-0.00212	12.52155	0.12532	-0.00352	1.16274
4.64253	-10.85858	1.83849	-0.28803	-1.54760	1.14726	-0.00211	12.41864	0.12584	-0.00360	1.17008
4.75059	-10.98832	1.84706	-0.28640	-1.54106	1.14262	-0.00210	12.33392	0.12643	-0.00369	1.17686
4.86145	-11.12998	1.85716	-0.28545	-1.53266	1.13686	-0.00209	12.22621	0.12701	-0.00377	1.18304
4.97760	-11.27040	1.86681	-0.28403	-1.52482	1.13142	-0.00208	12.12511	0.12759	-0.00384	1.18891
5.09424	-11.40186	1.87591	-0.28186	-1.51891	1.12715	-0.00207	12.04291	0.12825	-0.00394	1.19438
5.21376	-11.54814	1.88691	-0.28058	-1.51064	1.12142	-0.00206	11.93201	0.12887	-0.00401	1.19939
5.33618	-11.68942	1.89708	-0.27892	-1.50302	1.11609	-0.00205	11.83013	0.12947	-0.00408	1.20414
5.46150	-11.81943	1.90628	-0.27611	-1.49807	1.11239	-0.00205	11.75579	0.13017	-0.00416	1.20888
5.58971	-11.96569	1.91771	-0.27421	-1.49071	1.10718	-0.00204	11.65142	0.13086	-0.00423	1.21345
5.72082	-12.11556	1.92927	-0.27269	-1.48227	1.10130	-0.00203	11.53688	0.13149	-0.00428	1.21799
5.85823	-12.24627	1.93854	-0.26934	-1.47792	1.09794	-0.00202	11.46791	0.13222	-0.00435	1.22297
5.99520	-12.38401	1.94935	-0.26639	-1.47272	1.09404	-0.00201	11.38583	0.13297	-0.00441	1.22793
6.13497	-12.54039	1.96236	-0.26476	-1.46415	1.08801	-0.00200	11.26511	0.13366	-0.00444	1.23287
6.28141	-12.68159	1.97306	-0.26210	-1.45800	1.08349	-0.00199	11.17581	0.13433	-0.00448	1.23814
6.42674	-12.80268	1.98197	-0.25799	-1.45557	1.08134	-0.00198	11.12668	0.13510	-0.00453	1.24354
6.57895	-12.94764	1.99406	-0.25482	-1.45023	1.07729	-0.00197	11.03994	0.13590	-0.00456	1.24910
6.73401	-13.11156	2.00826	-0.25311	-1.44123	1.07089	-0.00196	10.91157	0.13662	-0.00457	1.25463
6.89180	-13.24493	2.01830	-0.24990	-1.43638	1.06717	-0.00195	10.83653	0.13731	-0.00458	1.26035
7.05716	-13.36353	2.02704	-0.24489	-1.43549	1.06596	-0.00194	10.80448	0.13812	-0.00461	1.26637
7.22022	-13.50085	2.03873	-0.24113	-1.43158	1.06280	-0.00193	10.73437	0.13892	-0.00462	1.27200
7.39098	-13.66808	2.05389	-0.23899	-1.42310	1.05665	-0.00192	10.60881	0.13972	-0.00460	1.27746
7.56430	-13.81491	2.06582	-0.23646	-1.41635	1.05164	-0.00191	10.51020	0.14040	-0.00458	1.28263
7.73994	-13.91578	2.07249	-0.23097	-1.41736	1.05169	-0.00190	10.50489	0.14112	-0.00459	1.28758
7.92393	-14.04000	2.08266	-0.22592	-1.41632	1.05035	-0.00190	10.47004	0.14193	-0.00458	1.29214
8.11030	-14.18702	2.09594	-0.22211	-1.41188	1.04678	-0.00189	10.39189	0.14277	-0.00456	1.29615
8.29876	-14.36169	2.11241	-0.22040	-1.40230	1.03983	-0.00187	10.25234	0.14358	-0.00452	1.29963
8.49618	-14.49289	2.12237	-0.21693	-1.39811	1.03644	-0.00186	10.18582	0.14425	-0.00449	1.30307
8.69565	-14.57748	2.12728	-0.21036	-1.40202	1.03839	-0.00186	10.21813	0.14491	-0.00449	1.30644
8.90472	-14.69856	2.13742	-0.20484	-1.40204	1.03770	-0.00185	10.19751	0.14570	-0.00446	1.30962
9.11577	-14.83521	2.14975	-0.20014	-1.39976	1.03550	-0.00184	10.14678	0.14652	-0.00442	1.31266
9.32836	-15.01404	2.16745	-0.19783	-1.39094	1.02897	-0.00183	10.01110	0.14744	-0.00435	1.31559
9.54198	-15.17031	2.18107	-0.19594	-1.38276	1.02291	-0.00181	9.89188	0.14818	-0.00430	1.31873
9.76563	-15.23758	2.18345	-0.18949	-1.38790	1.02569	-0.00181	9.94769	0.14864	-0.00428	1.32260
10.00000	-15.32074	2.18894	-0.18230	-1.39321	1.02850	-0.00181	10.00024	0.14923	-0.00425	1.32702

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Atkinson and Boore (1995) model
Median stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 61 - 152 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-4.68202	2.23722	0.01492	-2.11690	1.58250	-0.00200	2.44057	0.41134	-0.02941	0.44298
PGV	1.85375	1.57578	-0.09154	-2.18424	1.40194	-0.00242	2.41850	0.45324	-0.03320	0.48830
PGA	0.32434	1.52506	-0.02679	-2.43702	1.04236	-0.00234	2.28563	0.55305	-0.03058	0.76630
0.01000	0.64678	1.53666	-0.02577	-2.50032	1.02558	-0.00224	2.51916	0.54554	-0.02081	0.74803
0.01024	0.64825	1.53810	-0.02532	-2.50111	1.02129	-0.00223	2.51378	0.54649	-0.02079	0.74852
0.01048	0.65359	1.53954	-0.02488	-2.50261	1.01721	-0.00223	2.51125	0.54729	-0.02078	0.74901
0.01072	0.66302	1.54097	-0.02444	-2.50487	1.01330	-0.00222	2.51175	0.54794	-0.02078	0.74952
0.01097	0.67694	1.54243	-0.02401	-2.50796	1.00954	-0.00220	2.51554	0.54843	-0.02080	0.75004
0.01123	0.69578	1.54392	-0.02359	-2.51199	1.00589	-0.00219	2.52293	0.54875	-0.02082	0.75058
0.01150	0.71971	1.54545	-0.02316	-2.51697	1.00232	-0.00218	2.53402	0.54890	-0.02086	0.75115
0.01177	0.74893	1.54705	-0.02273	-2.52294	0.99878	-0.00216	2.54890	0.54890	-0.02091	0.75177
0.01205	0.78383	1.54871	-0.02230	-2.52999	0.99523	-0.00215	2.56785	0.54873	-0.02098	0.75248
0.01233	0.82489	1.55048	-0.02186	-2.53821	0.99166	-0.00213	2.59111	0.54839	-0.02107	0.75331
0.01262	0.87186	1.55235	-0.02140	-2.54755	0.98801	-0.00211	2.61842	0.54791	-0.02119	0.75425
0.01292	0.92488	1.55433	-0.02091	-2.55803	0.98418	-0.00208	2.64981	0.54730	-0.02132	0.75532
0.01322	0.98534	1.55644	-0.02041	-2.56991	0.98010	-0.00206	2.68644	0.54652	-0.02148	0.75653
0.01353	1.05551	1.55873	-0.01990	-2.58363	0.97581	-0.00203	2.73017	0.54552	-0.02166	0.75789
0.01385	1.13613	1.56124	-0.01935	-2.59934	0.97132	-0.00200	2.78162	0.54427	-0.02187	0.75944
0.01417	1.22508	1.56393	-0.01876	-2.61662	0.96646	-0.00197	2.83888	0.54290	-0.02211	0.76123
0.01451	1.31993	1.56679	-0.01812	-2.63496	0.96100	-0.00193	2.89980	0.54150	-0.02239	0.76330
0.01485	1.42087	1.56983	-0.01743	-2.65438	0.95493	-0.00189	2.96452	0.54008	-0.02270	0.76570
0.01520	1.52898	1.57307	-0.01671	-2.67511	0.94828	-0.00185	3.03397	0.53861	-0.02305	0.76838
0.01556	1.64448	1.57647	-0.01596	-2.69710	0.94086	-0.00180	3.10855	0.53710	-0.02342	0.77132
0.01592	1.76656	1.58002	-0.01520	-2.72013	0.93245	-0.00176	3.18763	0.53558	-0.02381	0.77452
0.01630	1.89203	1.58374	-0.01439	-2.74362	0.92283	-0.00171	3.26801	0.53420	-0.02422	0.77799
0.01668	2.01721	1.58763	-0.01350	-2.76690	0.91188	-0.00166	3.34587	0.53310	-0.02467	0.78181
0.01707	2.14294	1.59173	-0.01253	-2.79017	0.89975	-0.00160	3.42157	0.53225	-0.02517	0.78607
0.01748	2.27293	1.59611	-0.01150	-2.81419	0.88670	-0.00155	3.49838	0.53153	-0.02572	0.79072
0.01789	2.40437	1.60065	-0.01044	-2.83829	0.87262	-0.00149	3.57435	0.53099	-0.02630	0.79566
0.01831	2.53322	1.60524	-0.00935	-2.86155	0.85746	-0.00144	3.64684	0.53071	-0.02692	0.80100
0.01874	2.65756	1.60984	-0.00827	-2.88364	0.84158	-0.00139	3.71439	0.53069	-0.02760	0.80678
0.01918	2.77512	1.61444	-0.00721	-2.90422	0.82511	-0.00134	3.77461	0.53098	-0.02830	0.81284
0.01963	2.87768	1.61897	-0.00616	-2.92179	0.80771	-0.00129	3.81944	0.53181	-0.02901	0.81896
0.02009	2.95009	1.62326	-0.00511	-2.93348	0.78904	-0.00125	3.83484	0.53358	-0.02967	0.82486
0.02057	2.98901	1.62723	-0.00402	-2.93868	0.76915	-0.00122	3.81845	0.53634	-0.03025	0.83034
0.02105	2.99893	1.63093	-0.00289	-2.93819	0.74783	-0.00120	3.77565	0.53997	-0.03075	0.83528
0.02154	2.97449	1.63439	-0.00168	-2.93091	0.72471	-0.00118	3.70298	0.54464	-0.03115	0.83959
0.02205	2.91556	1.63756	-0.00035	-2.91684	0.70011	-0.00117	3.60244	0.55035	-0.03147	0.84331
0.02257	2.83979	1.64051	0.00106	-2.89945	0.67577	-0.00117	3.49192	0.55647	-0.03172	0.84655
0.02310	2.75900	1.64329	0.00251	-2.88114	0.65301	-0.00118	3.38211	0.56259	-0.03190	0.84917
0.02364	2.67475	1.64601	0.00393	-2.86244	0.63162	-0.00118	3.27256	0.56875	-0.03194	0.85087
0.02420	2.58755	1.64892	0.00530	-2.84359	0.61140	-0.00119	3.16267	0.57501	-0.03191	0.85204
0.02477	2.49490	1.65203	0.00665	-2.82400	0.59208	-0.00121	3.05162	0.58146	-0.03192	0.85349
0.02535	2.39020	1.65521	0.00806	-2.80234	0.57363	-0.00123	2.93632	0.58822	-0.03201	0.85550
0.02595	2.28161	1.65833	0.00959	-2.78011	0.55782	-0.00125	2.82583	0.59482	-0.03210	0.85770
0.02656	2.17778	1.66136	0.01115	-2.75896	0.54523	-0.00129	2.72597	0.60095	-0.03212	0.85947
0.02719	2.06068	1.66415	0.01270	-2.73556	0.53388	-0.00132	2.61990	0.60739	-0.03199	0.86040
0.02783	1.92837	1.66661	0.01419	-2.70929	0.52171	-0.00136	2.50546	0.61441	-0.03178	0.86080
0.02848	1.78723	1.66874	0.01559	-2.68103	0.50778	-0.00140	2.38784	0.62190	-0.03157	0.86128
0.02915	1.64391	1.67054	0.01689	-2.65183	0.49269	-0.00143	2.27321	0.62957	-0.03145	0.86244
0.02984	1.50115	1.67205	0.01810	-2.62230	0.47777	-0.00147	2.16440	0.63720	-0.03146	0.86450
0.03054	1.35279	1.67343	0.01939	-2.59183	0.46461	-0.00151	2.05670	0.64498	-0.03151	0.86688
0.03126	1.20211	1.67472	0.02080	-2.56124	0.45398	-0.00156	1.95173	0.65277	-0.03147	0.86867
0.03199	1.05602	1.67572	0.02217	-2.53145	0.44489	-0.00161	1.85319	0.66037	-0.03128	0.86938
0.03275	0.91890	1.67643	0.02350	-2.50324	0.43646	-0.00166	1.76209	0.66772	-0.03097	0.86929
0.03352	0.79105	1.67719	0.02487	-2.47715	0.42883	-0.00170	1.67753	0.67486	-0.03054	0.86841
0.03430	0.67305	1.67786	0.02620	-2.45325	0.42258	-0.00174	1.60005	0.68161	-0.02995	0.86641
0.03511	0.56957	1.67795	0.02729	-2.43157	0.41750	-0.00178	1.53339	0.68760	-0.02930	0.86400
0.03594	0.47783	1.67736	0.02803	-2.41132	0.41328	-0.00181	1.47653	0.69284	-0.02874	0.86218
0.03678	0.39123	1.67618	0.02836	-2.39155	0.40998	-0.00185	1.42573	0.69754	-0.02829	0.86116
0.03765	0.30044	1.67460	0.02852	-2.37061	0.40692	-0.00189	1.37626	0.70219	-0.02786	0.86034
0.03854	0.19318	1.67279	0.02884	-2.34634	0.40324	-0.00194	1.32125	0.70753	-0.02736	0.85906
0.03944	0.07148	1.67071	0.02924	-2.31932	0.39940	-0.00199	1.26100	0.71355	-0.02675	0.85713
0.04037	-0.04052	1.66841	0.02939	-2.29431	0.39714	-0.00203	1.20620	0.71912	-0.02609	0.85487
0.04132	-0.13139	1.66580	0.02934	-2.27340	0.39767	-0.00208	1.16118	0.72364	-0.02550	0.85299
0.04229	-0.21726	1.66294	0.02945	-2.25336	0.40008	-0.00212	1.11900	0.72791	-0.02495	0.85125
0.04329	-0.30709	1.66034	0.02974	-2.23251	0.40254	-0.00217	1.07699	0.73243	-0.02438	0.84920
0.04431	-0.40441	1.65828	0.03005	-2.21050	0.40442	-0.00223	1.03361	0.73745	-0.02377	0.84681
0.04535	-0.51221	1.65623	0.03034	-2.18667	0.40643	-0.00228	0.98670	0.74313	-0.02319	0.84452

0.04642	-0.61461	1.65371	0.03052	-2.16350	0.41055	-0.00234	0.94372	0.74840	-0.02264	0.84243
0.04751	-0.69529	1.65088	0.03046	-2.14417	0.41817	-0.00241	0.91206	0.75210	-0.02197	0.83958
0.04863	-0.76246	1.64793	0.03018	-2.12750	0.42772	-0.00247	0.88711	0.75477	-0.02115	0.83545
0.04977	-0.83802	1.64456	0.02986	-2.10928	0.43682	-0.00253	0.85847	0.75797	-0.02034	0.83131
0.05094	-0.92111	1.64077	0.02949	-2.08948	0.44451	-0.00258	0.82602	0.76189	-0.01973	0.82837
0.05214	-0.99999	1.63705	0.02891	-2.07040	0.45004	-0.00263	0.79455	0.76597	-0.01927	0.82648
0.05337	-1.08447	1.63297	0.02820	-2.04962	0.45238	-0.00267	0.76074	0.77080	-0.01888	0.82508
0.05462	-1.18656	1.62762	0.02757	-2.02390	0.45100	-0.00271	0.72110	0.77700	-0.01854	0.82402
0.05591	-1.29244	1.62174	0.02711	-1.99645	0.44832	-0.00276	0.68267	0.78342	-0.01824	0.82308
0.05722	-1.37696	1.61703	0.02683	-1.97390	0.44897	-0.00280	0.65542	0.78803	-0.01792	0.82206
0.05857	-1.43052	1.61375	0.02648	-1.95861	0.45404	-0.00285	0.64158	0.79008	-0.01758	0.82093
0.05995	-1.46604	1.61125	0.02592	-1.94745	0.45941	-0.00289	0.63468	0.79083	-0.01723	0.81964
0.06136	-1.50124	1.60897	0.02523	-1.93669	0.46203	-0.00291	0.62679	0.79192	-0.01682	0.81798
0.06280	-1.54023	1.60628	0.02438	-1.92543	0.46450	-0.00294	0.61602	0.79350	-0.01628	0.81559
0.06428	-1.57983	1.60226	0.02331	-1.91347	0.47060	-0.00297	0.60441	0.79480	-0.01568	0.81302
0.06579	-1.61402	1.59592	0.02179	-1.90053	0.47936	-0.00301	0.59424	0.79532	-0.01510	0.81078
0.06734	-1.63035	1.58767	0.01954	-1.88903	0.48859	-0.00304	0.58926	0.79443	-0.01444	0.80806
0.06893	-1.62124	1.57936	0.01665	-1.88242	0.49949	-0.00306	0.59216	0.79169	-0.01361	0.80425
0.07055	-1.59907	1.57251	0.01378	-1.88001	0.51499	-0.00309	0.60005	0.78781	-0.01266	0.79947
0.07221	-1.58404	1.56733	0.01149	-1.87793	0.53426	-0.00314	0.60703	0.78424	-0.01165	0.79405
0.07391	-1.59117	1.56328	0.00982	-1.87236	0.55268	-0.00319	0.60805	0.78219	-0.01069	0.78857
0.07565	-1.62519	1.55944	0.00838	-1.86177	0.56710	-0.00325	0.60050	0.78214	-0.00978	0.78332
0.07743	-1.67905	1.55462	0.00668	-1.84718	0.57742	-0.00329	0.58502	0.78365	-0.00894	0.77833
0.07925	-1.73545	1.54813	0.00460	-1.83157	0.58711	-0.00333	0.56697	0.78536	-0.00823	0.77417
0.08111	-1.78174	1.54040	0.00238	-1.81720	0.60064	-0.00337	0.55207	0.78599	-0.00774	0.77139
0.08302	-1.81223	1.53283	0.00027	-1.80561	0.61923	-0.00342	0.54392	0.78500	-0.00736	0.76941
0.08498	-1.82652	1.52627	-0.00181	-1.79727	0.63919	-0.00348	0.54277	0.78267	-0.00685	0.76660
0.08697	-1.83041	1.52042	-0.00399	-1.79074	0.65623	-0.00353	0.54571	0.77980	-0.00612	0.76227
0.08902	-1.83281	1.51493	-0.00638	-1.78441	0.66902	-0.00356	0.54864	0.77729	-0.00534	0.75754
0.09112	-1.84187	1.50996	-0.00891	-1.77748	0.67853	-0.00358	0.54822	0.77576	-0.00468	0.75367
0.09326	-1.86039	1.50568	-0.01158	-1.76990	0.68722	-0.00360	0.54400	0.77513	-0.00424	0.75124
0.09545	-1.87992	1.50147	-0.01452	-1.76271	0.69770	-0.00362	0.53959	0.77434	-0.00412	0.75087
0.09770	-1.88851	1.49575	-0.01788	-1.75648	0.71019	-0.00365	0.53890	0.77221	-0.00432	0.75241
0.10000	-1.87924	1.48743	-0.02172	-1.75116	0.72288	-0.00367	0.54424	0.76815	-0.00469	0.75498
0.10235	-1.85756	1.47744	-0.02573	-1.74631	0.73485	-0.00368	0.55474	0.76265	-0.00503	0.75745
0.10476	-1.84763	1.46779	-0.02923	-1.73951	0.74580	-0.00370	0.56213	0.75798	-0.00511	0.75868
0.10723	-1.86391	1.45973	-0.03197	-1.72978	0.75596	-0.00372	0.56011	0.75564	-0.00479	0.75775
0.10975	-1.89091	1.45320	-0.03441	-1.72027	0.76678	-0.00373	0.55365	0.75439	-0.00412	0.75487
0.11233	-1.90382	1.44672	-0.03725	-1.71414	0.77823	-0.00374	0.55132	0.75200	-0.00335	0.75131
0.11498	-1.88831	1.43941	-0.04084	-1.71296	0.78938	-0.00373	0.55859	0.74716	-0.00268	0.74820
0.11768	-1.84838	1.43204	-0.04486	-1.71629	0.80071	-0.00371	0.57598	0.74008	-0.00220	0.74617
0.12045	-1.80481	1.42532	-0.04866	-1.72064	0.81210	-0.00369	0.59756	0.73239	-0.00197	0.74568
0.12328	-1.77725	1.41896	-0.05196	-1.72199	0.82119	-0.00367	0.61566	0.72577	-0.00188	0.74596
0.12619	-1.76831	1.41259	-0.05513	-1.71936	0.82616	-0.00365	0.62798	0.72057	-0.00172	0.74546
0.12916	-1.76365	1.40635	-0.05866	-1.71573	0.82774	-0.00362	0.63932	0.71575	-0.00126	0.74269
0.13219	-1.74997	1.40063	-0.06272	-1.71407	0.82834	-0.00358	0.65508	0.71025	-0.00041	0.73725
0.13531	-1.73406	1.39534	-0.06706	-1.71308	0.82951	-0.00355	0.67247	0.70459	0.00063	0.73050
0.13849	-1.74062	1.38982	-0.07123	-1.70755	0.83029	-0.00352	0.67991	0.70078	0.00148	0.72483
0.14175	-1.78123	1.38402	-0.07488	-1.69538	0.83016	-0.00350	0.67169	0.69978	0.00189	0.72166
0.14508	-1.84311	1.37877	-0.07790	-1.68003	0.83179	-0.00351	0.65441	0.70047	0.00190	0.72061
0.14850	-1.90753	1.37503	-0.08038	-1.66614	0.83963	-0.00353	0.63785	0.70110	0.00188	0.71938
0.15199	-1.95707	1.37323	-0.08256	-1.65758	0.85704	-0.00357	0.63042	0.69992	0.00221	0.71568
0.15557	-1.98022	1.37315	-0.08471	-1.65629	0.88402	-0.00363	0.63723	0.69585	0.00292	0.70943
0.15923	-1.97365	1.37406	-0.08701	-1.66193	0.91728	-0.00369	0.66001	0.68866	0.00378	0.70214
0.16298	-1.94198	1.37516	-0.08961	-1.67252	0.95080	-0.00374	0.69680	0.67912	0.00455	0.69550
0.16681	-1.89329	1.37598	-0.09266	-1.68579	0.97760	-0.00376	0.74356	0.66847	0.00505	0.69080
0.17074	-1.83397	1.37638	-0.09621	-1.70032	0.99344	-0.00374	0.79711	0.65757	0.00512	0.68916
0.17475	-1.77047	1.37651	-0.10008	-1.71505	0.99954	-0.00368	0.85485	0.64696	0.00468	0.69123
0.17887	-1.71303	1.37687	-0.10386	-1.72852	1.00078	-0.00362	0.91206	0.63727	0.00392	0.69598
0.18307	-1.67054	1.37794	-0.10728	-1.73965	1.00224	-0.00357	0.96369	0.62903	0.00325	0.70075
0.18738	-1.64855	1.37999	-0.11019	-1.74788	1.00722	-0.00354	1.00597	0.62243	0.00310	0.70272
0.19179	-1.65119	1.38309	-0.11250	-1.75260	1.01657	-0.00353	1.03542	0.61764	0.00359	0.70054
0.19631	-1.67936	1.38672	-0.11422	-1.75317	1.02817	-0.00354	1.04992	0.61470	0.00453	0.69520
0.20092	-1.72867	1.39005	-0.11543	-1.74974	1.03811	-0.00355	1.05014	0.61335	0.00546	0.68932
0.20565	-1.79115	1.39285	-0.11631	-1.74382	1.04379	-0.00355	1.03973	0.61312	0.00606	0.68506
0.21049	-1.86070	1.39552	-0.11705	-1.73702	1.04491	-0.00353	1.02312	0.61356	0.00632	0.68281
0.21544	-1.93590	1.39857	-0.11785	-1.72999	1.04239	-0.00350	1.00320	0.61441	0.00640	0.68160
0.22051	-2.01974	1.40192	-0.11885	-1.72180	1.03737	-0.00347	0.97989	0.61568	0.00640	0.68093
0.22570	-2.11089	1.40475	-0.12018	-1.71150	1.03150	-0.00344	0.95535	0.61697	0.00624	0.68143
0.23101	-2.19646	1.40635	-0.12202	-1.70066	1.02704	-0.00342	0.93789	0.61709	0.00585	0.68373
0.23645	-2.25812	1.40664	-0.12455	-1.69273	1.02583	-0.00340	0.93842	0.61455	0.00525	0.68762
0.24201	-2.28313	1.40597	-0.12779	-1.69065	1.02885	-0.00338	0.96442	0.60850	0.00457	0.69234
0.24771	-2.27119	1.40484	-0.13147	-1.69511	1.03634	-0.00335	1.01719	0.59921	0.00385	0.69773
0.25354	-2.23200	1.40387	-0.13516	-1.70498	1.04850	-0.00332	1.09230	0.58782	0.00300	0.70436
0.25950	-2.18334	1.40367	-0.13841	-1.71746	1.06503	-0.00330	1.17939	0.57598	0.00206	0.71205
0.26561	-2.14342	1.40462	-0.14100	-1.72944	1.08438	-0.00330	1.26465	0.56529	0.00115	0.72004
0.27186	-2.11712	1.40694	-0.14303	-1.74021	1.10430	-0.00331	1.34160	0.55624	0.00040	0.72750
0.27826	-2.09784	1.41050	-0.14483	-1.75115	1.12250	-0.00331	1.41217	0.54847	-0.00016	0.73396
0.28480	-2.08198	1.41494	-0.14669	-1.76283	1.13692	-0.00331	1.47669	0.54172	-0.00056	0.73929
0.29150	-2.07371	1.41978	-0.14873	-1.77405	1.14643	-0.00329	1.53130	0.53605	-0.00085	0.74359
0.29836	-2.08002	1.42452	-0.15105	-1.78287	1.15093	-0.00325	1.57112	0.53157	-0.00106	0.74717

0.30539	-2.10847	1.42884	-0.15362	-1.78723	1.15079	-0.00322	1.59228	0.52839	-0.00120	0.75008
0.31257	-2.16829	1.43242	-0.15635	-1.78478	1.14585	-0.00319	1.58914	0.52679	-0.00122	0.75218
0.31993	-2.26412	1.43518	-0.15905	-1.77449	1.13644	-0.00315	1.55947	0.52689	-0.00114	0.75349
0.32745	-2.39189	1.43726	-0.16144	-1.75741	1.12374	-0.00313	1.50777	0.52842	-0.00105	0.75459
0.33517	-2.54258	1.43879	-0.16336	-1.73563	1.10909	-0.00310	1.44140	0.53095	-0.00110	0.75628
0.34304	-2.70283	1.43997	-0.16486	-1.71206	1.09353	-0.00308	1.37192	0.53366	-0.00131	0.75850
0.35112	-2.86158	1.44105	-0.16616	-1.68913	1.07722	-0.00305	1.30930	0.53577	-0.00155	0.76033
0.35938	-3.00846	1.44219	-0.16748	-1.66892	1.06058	-0.00300	1.26079	0.53665	-0.00175	0.76137
0.36784	-3.13946	1.44363	-0.16888	-1.65236	1.04441	-0.00295	1.22955	0.53594	-0.00197	0.76233
0.37649	-3.25262	1.44565	-0.17034	-1.64004	1.03007	-0.00290	1.21598	0.53362	-0.00234	0.76437
0.38536	-3.35021	1.44839	-0.17183	-1.63162	1.01837	-0.00284	1.21653	0.53011	-0.00295	0.76823
0.39442	-3.43701	1.45206	-0.17325	-1.62635	1.00987	-0.00279	1.22659	0.52594	-0.00375	0.77374
0.40370	-3.51927	1.45688	-0.17448	-1.62321	1.00478	-0.00274	1.24127	0.52163	-0.00462	0.77990
0.41321	-3.60090	1.46281	-0.17550	-1.62143	1.00352	-0.00271	1.25653	0.51760	-0.00536	0.78553
0.42292	-3.68298	1.46949	-0.17634	-1.62040	1.00634	-0.00270	1.27128	0.51385	-0.00594	0.79027
0.43288	-3.76637	1.47638	-0.17707	-1.61931	1.01256	-0.00270	1.28598	0.51013	-0.00641	0.79465
0.44307	-3.84868	1.48276	-0.17790	-1.61775	1.02097	-0.00271	1.30215	0.50619	-0.00692	0.79968
0.45349	-3.92520	1.48838	-0.17897	-1.61637	1.03086	-0.00273	1.32279	0.50179	-0.00754	0.80596
0.46417	-3.99255	1.49353	-0.18026	-1.61627	1.04196	-0.00275	1.35108	0.49674	-0.00821	0.81312
0.47508	-4.05105	1.49861	-0.18166	-1.61785	1.05378	-0.00276	1.38780	0.49106	-0.00882	0.82048
0.48626	-4.09981	1.50366	-0.18314	-1.62146	1.06596	-0.00277	1.43366	0.48477	-0.00935	0.82766
0.49771	-4.13615	1.50860	-0.18476	-1.62764	1.07807	-0.00277	1.49075	0.47783	-0.00975	0.83432
0.50942	-4.16067	1.51345	-0.18652	-1.63627	1.08938	-0.00276	1.55973	0.47025	-0.00993	0.83994
0.52140	-4.17624	1.51816	-0.18843	-1.64656	1.09949	-0.00274	1.63987	0.46212	-0.00991	0.84453
0.53367	-4.18467	1.52239	-0.19050	-1.65764	1.10871	-0.00270	1.73034	0.45357	-0.00980	0.84897
0.54624	-4.18707	1.52582	-0.19276	-1.66874	1.11723	-0.00266	1.82980	0.44479	-0.00976	0.85411
0.55910	-4.18386	1.52845	-0.19520	-1.67965	1.12500	-0.00262	1.93951	0.43577	-0.00980	0.86001
0.57225	-4.17758	1.53054	-0.19775	-1.69004	1.13175	-0.00258	2.05936	0.42658	-0.00987	0.86609
0.58569	-4.17037	1.53234	-0.20035	-1.69973	1.13747	-0.00253	2.18809	0.41738	-0.00993	0.87193
0.59948	-4.16208	1.53397	-0.20299	-1.70898	1.14249	-0.00248	2.32500	0.40832	-0.00995	0.87736
0.61357	-4.15181	1.53552	-0.20566	-1.71810	1.14719	-0.00244	2.46872	0.39958	-0.00991	0.88222
0.62802	-4.14131	1.53724	-0.20833	-1.72706	1.15169	-0.00240	2.61800	0.39123	-0.00979	0.88633
0.64280	-4.13472	1.53936	-0.21088	-1.73525	1.15600	-0.00236	2.76799	0.38342	-0.00959	0.88946
0.65794	-4.13706	1.54195	-0.21329	-1.74185	1.15995	-0.00233	2.91095	0.37635	-0.00929	0.89143
0.67340	-4.15208	1.54489	-0.21557	-1.74606	1.16319	-0.00231	3.03664	0.37032	-0.00889	0.89224
0.68927	-4.18258	1.54803	-0.21779	-1.74730	1.16503	-0.00230	3.13673	0.36550	-0.00837	0.89193
0.70547	-4.23195	1.55124	-0.21993	-1.74479	1.16450	-0.00229	3.20307	0.36203	-0.00778	0.89054
0.72207	-4.30336	1.55456	-0.22196	-1.73803	1.16083	-0.00228	3.23252	0.35981	-0.00712	0.88800
0.73910	-4.39445	1.55811	-0.22383	-1.72769	1.15422	-0.00228	3.23124	0.35853	-0.00641	0.88415
0.75649	-4.49610	1.56198	-0.22553	-1.71578	1.14589	-0.00227	3.21469	0.35767	-0.00562	0.87874
0.77429	-4.60123	1.56609	-0.22712	-1.70375	1.13700	-0.00226	3.19374	0.35688	-0.00473	0.87152
0.79246	-4.70424	1.57025	-0.22864	-1.69256	1.12853	-0.00225	3.17640	0.35591	-0.00376	0.86256
0.81116	-4.80265	1.57435	-0.23011	-1.68265	1.12119	-0.00225	3.17004	0.35446	-0.00275	0.85232
0.83022	-4.89225	1.57829	-0.23150	-1.67471	1.11567	-0.00224	3.18356	0.35214	-0.00179	0.84175
0.84976	-4.97214	1.58206	-0.23282	-1.66892	1.11220	-0.00223	3.22318	0.34868	-0.00095	0.83164
0.86972	-5.04507	1.58554	-0.23409	-1.66453	1.11037	-0.00222	3.28601	0.34414	-0.00031	0.82288
0.89023	-5.11599	1.58863	-0.23538	-1.66045	1.10970	-0.00222	3.36399	0.33882	0.00011	0.81625
0.91116	-5.18847	1.59123	-0.23674	-1.65579	1.10981	-0.00222	3.44610	0.33318	0.00030	0.81238
0.93257	-5.26661	1.59332	-0.23823	-1.64973	1.11036	-0.00222	3.52148	0.32760	0.00029	0.81120
0.95456	-5.35385	1.59496	-0.23989	-1.64169	1.11101	-0.00223	3.58212	0.32230	0.00014	0.81240
0.97704	-5.45108	1.59627	-0.24167	-1.63167	1.11168	-0.00225	3.62504	0.31736	-0.00012	0.81557
1.00000	-5.55912	1.59744	-0.24348	-1.61979	1.11243	-0.00228	3.65011	0.31272	-0.00046	0.82032
1.02354	-5.67906	1.59864	-0.24524	-1.60609	1.11325	-0.00231	3.65796	0.30826	-0.00083	0.82621
1.04767	-5.81122	1.59998	-0.24685	-1.59068	1.11394	-0.00234	3.64911	0.30396	-0.00119	0.83268
1.07227	-5.95337	1.60149	-0.24828	-1.57399	1.11434	-0.00238	3.62714	0.29975	-0.00148	0.83929
1.09745	-6.10261	1.60314	-0.24953	-1.55656	1.11451	-0.00242	3.59826	0.29551	-0.00167	0.84579
1.12334	-6.25448	1.60487	-0.25062	-1.53925	1.11485	-0.00247	3.57164	0.29102	-0.00175	0.85201
1.14982	-6.40069	1.60658	-0.25158	-1.52363	1.11621	-0.00251	3.56245	0.28593	-0.00170	0.85772
1.17675	-6.53254	1.60824	-0.25240	-1.51137	1.11962	-0.00255	3.58815	0.27986	-0.00153	0.86262
1.20453	-6.64625	1.60981	-0.25311	-1.50345	1.12583	-0.00258	3.66446	0.27233	-0.00123	0.86655
1.23289	-6.73718	1.61125	-0.25372	-1.50060	1.13512	-0.00262	3.80377	0.26319	-0.00082	0.86914
1.26183	-6.80437	1.61258	-0.25425	-1.50297	1.14727	-0.00264	4.01505	0.25245	-0.00029	0.87014
1.29149	-6.84915	1.61386	-0.25472	-1.51029	1.16175	-0.00266	4.30433	0.24031	0.00037	0.86942
1.32188	-6.87293	1.61512	-0.25518	-1.52218	1.17792	-0.00267	4.67520	0.22714	0.00118	0.86704
1.35300	-6.87740	1.61637	-0.25564	-1.53811	1.19526	-0.00267	5.12981	0.21336	0.00210	0.86331
1.38485	-6.86522	1.61753	-0.25613	-1.55728	1.21325	-0.00266	5.66508	0.19944	0.00312	0.85873
1.41743	-6.84082	1.61852	-0.25666	-1.57859	1.23128	-0.00265	6.26973	0.18585	0.00418	0.85386
1.45075	-6.80965	1.61927	-0.25722	-1.60075	1.24866	-0.00264	6.92466	0.17299	0.00522	0.84917
1.48500	-6.77719	1.61973	-0.25780	-1.62265	1.26485	-0.00262	7.60994	0.16111	0.00622	0.84495
1.51999	-6.74980	1.61992	-0.25841	-1.64289	1.27901	-0.00260	8.29293	0.15048	0.00714	0.84138
1.55569	-6.73312	1.61993	-0.25902	-1.66036	1.29041	-0.00257	8.94545	0.14121	0.00798	0.83847
1.59236	-6.72985	1.61986	-0.25965	-1.67472	1.29879	-0.00255	9.55291	0.13320	0.00872	0.83622
1.62973	-6.74190	1.61984	-0.26032	-1.68557	1.30392	-0.00253	10.09710	0.12644	0.00936	0.83471
1.66806	-6.76910	1.61996	-0.26105	-1.69311	1.30609	-0.00251	10.57659	0.12074	0.00988	0.83411
1.70736	-6.81001	1.62029	-0.26187	-1.69772	1.30577	-0.00248	10.99191	0.11598	0.01026	0.83466
1.74764	-6.86315	1.62092	-0.26279	-1.69979	1.30342	-0.00246	11.34500	0.11204	0.01047	0.83653
1.78859	-6.92630	1.62188	-0.26378	-1.69972	1.29955	-0.00244	11.63710	0.10887	0.01052	0.83971
1.83083	-6.99734	1.62319	-0.26486	-1.69817	1.29462	-0.00241	11.88193	0.10632	0.01044	0.84422
1.87371	-7.07309	1.62481	-0.26603	-1.69562	1.28907	-0.00239	12.08229	0.10434	0.01023	0.84987
1.91791	-7.15296	1.62671	-0.26729	-1.69234	1.28306	-0.00237	12.24759	0.10284	0.00993	0.85657
1.96309	-7.23491	1.62881	-0.26862	-1.68861	1.27682	-0.00235	12.38181	0.10177	0.00955	0.86405

2.00924	-7.31791	1.63104	-0.27003	-1.68460	1.27049	-0.00234	12.48973	0.10106	0.00912	0.87205
2.05634	-7.40128	1.63333	-0.27151	-1.68040	1.26414	-0.00232	12.57521	0.10066	0.00865	0.88032
2.10482	-7.48543	1.63569	-0.27306	-1.67603	1.25778	-0.00230	12.64203	0.10052	0.00815	0.88868
2.15424	-7.56950	1.63807	-0.27466	-1.67157	1.25148	-0.00228	12.69229	0.10059	0.00764	0.89679
2.20507	-7.65423	1.64053	-0.27631	-1.66699	1.24523	-0.00227	12.72919	0.10082	0.00713	0.90453
2.25683	-7.73903	1.64306	-0.27796	-1.66235	1.23909	-0.00225	12.75442	0.10118	0.00661	0.91184
2.31000	-7.82492	1.64575	-0.27962	-1.65761	1.23302	-0.00224	12.77025	0.10164	0.00611	0.91882
2.36463	-7.91217	1.64864	-0.28127	-1.65278	1.22701	-0.00222	12.77839	0.10217	0.00561	0.92554
2.42014	-8.00057	1.65176	-0.28287	-1.64781	1.22108	-0.00221	12.77837	0.10275	0.00512	0.93204
2.47709	-8.09024	1.65516	-0.28442	-1.64286	1.21529	-0.00220	12.77482	0.10335	0.00464	0.93850
2.53550	-8.18184	1.65888	-0.28590	-1.63784	1.20956	-0.00218	12.76673	0.10397	0.00416	0.94509
2.59471	-8.27445	1.66291	-0.28730	-1.63278	1.20395	-0.00217	12.75461	0.10459	0.00370	0.95185
2.65604	-8.36981	1.66730	-0.28862	-1.62766	1.19838	-0.00216	12.73980	0.10522	0.00324	0.95901
2.71887	-8.46706	1.67204	-0.28987	-1.62248	1.19288	-0.00214	12.72244	0.10585	0.00278	0.96653
2.78242	-8.56479	1.67704	-0.29101	-1.61734	1.18753	-0.00213	12.70328	0.10646	0.00233	0.97438
2.84819	-8.66502	1.68236	-0.29206	-1.61216	1.18221	-0.00212	12.68241	0.10707	0.00189	0.98281
2.91545	-8.76709	1.68797	-0.29305	-1.60685	1.17692	-0.00210	12.65847	0.10766	0.00147	0.99175
2.98329	-8.86877	1.69367	-0.29390	-1.60164	1.17179	-0.00209	12.63352	0.10825	0.00106	1.00096
3.05344	-8.97347	1.69967	-0.29472	-1.59617	1.16660	-0.00208	12.60457	0.10882	0.00067	1.01046
3.12598	-9.08023	1.70584	-0.29542	-1.59065	1.16143	-0.00207	12.57352	0.10939	0.00031	1.02002
3.19898	-9.18689	1.71207	-0.29606	-1.58502	1.15632	-0.00206	12.53929	0.10993	-0.00003	1.02913
3.27439	-9.29543	1.71844	-0.29660	-1.57933	1.15124	-0.00204	12.50249	0.11048	-0.00035	1.03775
3.35121	-9.40490	1.72488	-0.29709	-1.57346	1.14615	-0.00203	12.46222	0.11102	-0.00065	1.04563
3.43053	-9.51605	1.73144	-0.29747	-1.56757	1.14110	-0.00202	12.41931	0.11157	-0.00092	1.05309
3.51124	-9.62810	1.73808	-0.29781	-1.56148	1.13603	-0.00201	12.37265	0.11209	-0.00117	1.06027
3.59324	-9.73950	1.74466	-0.29798	-1.55556	1.13113	-0.00200	12.32510	0.11264	-0.00141	1.06750
3.67782	-9.85411	1.75155	-0.29819	-1.54925	1.12605	-0.00199	12.27183	0.11317	-0.00162	1.07522
3.76506	-9.96859	1.75832	-0.29812	-1.54324	1.12120	-0.00198	12.21923	0.11373	-0.00182	1.08381
3.85356	-10.08563	1.76554	-0.29820	-1.53678	1.11615	-0.00197	12.16000	0.11427	-0.00200	1.09306
3.94477	-10.20138	1.77243	-0.29788	-1.53079	1.11141	-0.00196	12.10364	0.11483	-0.00217	1.10295
4.03714	-10.31971	1.77991	-0.29773	-1.52445	1.10652	-0.00196	12.04118	0.11540	-0.00232	1.11303
4.13223	-10.43803	1.78723	-0.29732	-1.51827	1.10175	-0.00195	11.97950	0.11596	-0.00246	1.12320
4.23012	-10.55741	1.79478	-0.29670	-1.51233	1.09715	-0.00194	11.91728	0.11657	-0.00260	1.13315
4.32900	-10.67970	1.80292	-0.29633	-1.50585	1.09226	-0.00193	11.84893	0.11713	-0.00272	1.14234
4.43066	-10.79803	1.81036	-0.29529	-1.50030	1.08795	-0.00192	11.78806	0.11774	-0.00284	1.15096
4.53515	-10.92252	1.81895	-0.29454	-1.49418	1.08331	-0.00191	11.71920	0.11836	-0.00295	1.15895
4.64253	-11.04798	1.82753	-0.29368	-1.48797	1.07861	-0.00190	11.64965	0.11895	-0.00306	1.16633
4.75059	-11.16713	1.83540	-0.29216	-1.48293	1.07465	-0.00189	11.58885	0.11960	-0.00316	1.17309
4.86145	-11.29529	1.84491	-0.29122	-1.47684	1.07004	-0.00188	11.51648	0.12023	-0.00326	1.17930
4.97760	-11.42341	1.85397	-0.28987	-1.47099	1.06558	-0.00187	11.44681	0.12085	-0.00336	1.18517
5.09424	-11.54503	1.86237	-0.28785	-1.46638	1.06189	-0.00186	11.38599	0.12155	-0.00345	1.19058
5.21376	-11.67783	1.87282	-0.28659	-1.46044	1.05736	-0.00185	11.31153	0.12221	-0.00354	1.19560
5.33618	-11.80719	1.88247	-0.28499	-1.45480	1.05302	-0.00184	11.24118	0.12284	-0.00362	1.20035
5.46150	-11.92884	1.89095	-0.28238	-1.45077	1.04971	-0.00183	11.18282	0.12357	-0.00371	1.20500
5.58971	-12.06288	1.90185	-0.28053	-1.44545	1.04554	-0.00182	11.11073	0.12429	-0.00378	1.20955
5.72082	-12.19934	1.91303	-0.27901	-1.43950	1.04097	-0.00181	11.03544	0.12491	-0.00385	1.21411
5.85823	-12.32299	1.92159	-0.27589	-1.43577	1.03784	-0.00180	10.97773	0.12567	-0.00391	1.21899
5.99520	-12.45187	1.93178	-0.27310	-1.43172	1.03449	-0.00179	10.91450	0.12645	-0.00397	1.22389
6.13497	-12.59481	1.94449	-0.27142	-1.42577	1.02985	-0.00178	10.83469	0.12713	-0.00402	1.22886
6.28141	-12.72734	1.95474	-0.26886	-1.42093	1.02598	-0.00177	10.76659	0.12782	-0.00406	1.23410
6.42674	-12.84440	1.96289	-0.26504	-1.41838	1.02365	-0.00176	10.71627	0.12863	-0.00410	1.23937
6.57895	-12.98063	1.97447	-0.26198	-1.41430	1.02023	-0.00175	10.64929	0.12945	-0.00414	1.24490
6.73401	-13.13101	1.98855	-0.26016	-1.40817	1.01539	-0.00174	10.56557	0.13015	-0.00416	1.25049
6.89180	-13.25801	1.99815	-0.25708	-1.40413	1.01205	-0.00173	10.50332	0.13085	-0.00417	1.25616
7.05716	-13.37562	2.00604	-0.25245	-1.40232	1.01023	-0.00172	10.45631	0.13173	-0.00419	1.26204
7.22022	-13.50712	2.01722	-0.24884	-1.39904	1.00736	-0.00171	10.39487	0.13258	-0.00419	1.26763
7.39098	-13.66196	2.03236	-0.24656	-1.39329	1.00271	-0.00170	10.31121	0.13335	-0.00419	1.27316
7.56430	-13.80038	2.04417	-0.24400	-1.38822	0.99860	-0.00169	10.23838	0.13401	-0.00418	1.27836
7.73994	-13.90437	2.04990	-0.23896	-1.38732	0.99750	-0.00168	10.20100	0.13485	-0.00418	1.28317
7.92393	-14.02822	2.05936	-0.23422	-1.38543	0.99562	-0.00167	10.14999	0.13576	-0.00416	1.28764
8.11030	-14.16949	2.07231	-0.23047	-1.38186	0.99251	-0.00166	10.08308	0.13664	-0.00415	1.29164
8.29876	-14.33080	2.08910	-0.22846	-1.37567	0.98745	-0.00164	9.99550	0.13739	-0.00412	1.29524
8.49618	-14.45835	2.09880	-0.22509	-1.37193	0.98428	-0.00164	9.93418	0.13808	-0.00410	1.29867
8.69565	-14.55153	2.10253	-0.21913	-1.37241	0.98424	-0.00163	9.90803	0.13895	-0.00408	1.30187
8.90472	-14.67509	2.11193	-0.21394	-1.37097	0.98270	-0.00162	9.85964	0.13988	-0.00405	1.30498
9.11577	-14.81042	2.12384	-0.20939	-1.36846	0.98036	-0.00161	9.80106	0.14081	-0.00401	1.30800
9.32836	-14.97719	2.14193	-0.20675	-1.36285	0.97562	-0.00160	9.71371	0.14168	-0.00396	1.31105
9.54198	-15.12349	2.15592	-0.20460	-1.35733	0.97105	-0.00159	9.63520	0.14235	-0.00392	1.31428
9.76563	-15.20324	2.15704	-0.19882	-1.35813	0.97136	-0.00158	9.61683	0.14307	-0.00389	1.31801
10.00000	-15.29913	2.16126	-0.19230	-1.35905	0.97169	-0.00158	9.59241	0.14397	-0.00385	1.32232

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Atkinson and Boore (1995) model
Median stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 152 - 305 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-4.65486	2.18156	-0.05229	-2.02449	1.58191	-0.00216	2.21667	0.41221	-0.01680	0.37370
PGV	1.60991	1.59124	-0.09949	-2.16162	1.50919	-0.00279	2.32568	0.45180	-0.03156	0.47044
PGA	-0.96672	1.54016	-0.02196	-2.21330	1.09200	-0.00309	1.48844	0.60657	-0.02619	0.72247
0.01000	-0.76597	1.55089	-0.02041	-2.25446	1.07588	-0.00303	1.61019	0.60085	-0.01884	0.72201
0.01024	-0.77159	1.55259	-0.01982	-2.25425	1.07148	-0.00302	1.60358	0.60213	-0.01881	0.72232
0.01048	-0.77452	1.55425	-0.01924	-2.25451	1.06726	-0.00302	1.59849	0.60326	-0.01878	0.72262
0.01072	-0.77466	1.55587	-0.01867	-2.25525	1.06321	-0.00301	1.59498	0.60426	-0.01877	0.72291
0.01097	-0.77198	1.55748	-0.01811	-2.25651	1.05927	-0.00300	1.59305	0.60513	-0.01876	0.72320
0.01123	-0.76634	1.55908	-0.01756	-2.25831	1.05543	-0.00299	1.59274	0.60586	-0.01876	0.72350
0.01150	-0.75754	1.56071	-0.01700	-2.26069	1.05166	-0.00298	1.59418	0.60646	-0.01877	0.72382
0.01177	-0.74518	1.56236	-0.01644	-2.26374	1.04794	-0.00297	1.59762	0.60692	-0.01879	0.72416
0.01205	-0.72892	1.56406	-0.01588	-2.26753	1.04426	-0.00296	1.60322	0.60721	-0.01882	0.72454
0.01233	-0.70872	1.56583	-0.01531	-2.27208	1.04056	-0.00294	1.61098	0.60737	-0.01886	0.72495
0.01262	-0.68438	1.56768	-0.01471	-2.27742	1.03677	-0.00293	1.62094	0.60739	-0.01892	0.72542
0.01292	-0.65550	1.56963	-0.01409	-2.28364	1.03284	-0.00291	1.63333	0.60727	-0.01900	0.72600
0.01322	-0.62216	1.57169	-0.01343	-2.29071	1.02870	-0.00289	1.64805	0.60702	-0.01910	0.72669
0.01353	-0.58429	1.57387	-0.01273	-2.29866	1.02438	-0.00287	1.66513	0.60665	-0.01921	0.72751
0.01385	-0.54074	1.57621	-0.01199	-2.30772	1.01989	-0.00285	1.68532	0.60612	-0.01935	0.72847
0.01417	-0.49080	1.57873	-0.01121	-2.31800	1.01508	-0.00283	1.70902	0.60542	-0.01952	0.72964
0.01451	-0.43434	1.58144	-0.01039	-2.32953	1.00978	-0.00280	1.73623	0.60458	-0.01971	0.73101
0.01485	-0.37180	1.58434	-0.00951	-2.34221	1.00400	-0.00277	1.76664	0.60362	-0.01992	0.73258
0.01520	-0.30401	1.58742	-0.00859	-2.35586	0.99772	-0.00274	1.79987	0.60258	-0.02016	0.73440
0.01556	-0.23142	1.59071	-0.00759	-2.37042	0.99092	-0.00271	1.83553	0.60151	-0.02045	0.73660
0.01592	-0.15336	1.59424	-0.00653	-2.38600	0.98345	-0.00267	1.87386	0.60041	-0.02079	0.73920
0.01630	-0.06877	1.59800	-0.00541	-2.40274	0.97505	-0.00263	1.91572	0.59924	-0.02116	0.74217
0.01668	0.02427	1.60202	-0.00427	-2.42098	0.96584	-0.00259	1.96264	0.59794	-0.02158	0.74554
0.01707	0.12599	1.60633	-0.00310	-2.44084	0.95610	-0.00254	2.01483	0.59648	-0.02204	0.74925
0.01748	0.23190	1.61091	-0.00187	-2.46149	0.94576	-0.00250	2.06882	0.59509	-0.02253	0.75328
0.01789	0.33743	1.61571	-0.00054	-2.48204	0.93448	-0.00245	2.12104	0.59399	-0.02305	0.75762
0.01831	0.44036	1.62066	0.00087	-2.50193	0.92180	-0.00240	2.17001	0.59326	-0.02362	0.76225
0.01874	0.54062	1.62577	0.00232	-2.52113	0.90763	-0.00235	2.21577	0.59289	-0.02424	0.76733
0.01918	0.63120	1.63092	0.00381	-2.53833	0.89221	-0.00230	2.25340	0.59307	-0.02491	0.77272
0.01963	0.70747	1.63603	0.00534	-2.55270	0.87630	-0.00226	2.28008	0.59389	-0.02556	0.77808
0.02009	0.77324	1.64116	0.00694	-2.56503	0.86035	-0.00222	2.29888	0.59515	-0.02616	0.78311
0.02057	0.83256	1.64635	0.00860	-2.57606	0.84429	-0.00219	2.31276	0.59671	-0.02671	0.78777
0.02105	0.88254	1.65147	0.01025	-2.58506	0.82761	-0.00216	2.31998	0.59865	-0.02717	0.79190
0.02154	0.91588	1.65620	0.01181	-2.59048	0.81010	-0.00213	2.31634	0.60114	-0.02752	0.79530
0.02205	0.93046	1.66058	0.01329	-2.59202	0.79206	-0.00211	2.30073	0.60423	-0.02778	0.79811
0.02257	0.93671	1.66511	0.01478	-2.59218	0.77452	-0.00209	2.27966	0.60761	-0.02807	0.80111
0.02310	0.93760	1.66990	0.01632	-2.59158	0.75762	-0.00208	2.25467	0.61123	-0.02847	0.80494
0.02364	0.91732	1.67450	0.01792	-2.58691	0.74017	-0.00207	2.21487	0.61568	-0.02895	0.80942
0.02420	0.87471	1.67868	0.01951	-2.57788	0.72227	-0.00206	2.16075	0.62093	-0.02938	0.81347
0.02477	0.82202	1.68271	0.02121	-2.56688	0.70445	-0.00206	2.10253	0.62646	-0.02970	0.81683
0.02535	0.76069	1.68683	0.02307	-2.55430	0.68736	-0.00207	2.04151	0.63227	-0.03006	0.82043
0.02595	0.69244	1.69078	0.02491	-2.54047	0.67218	-0.00208	1.97859	0.63818	-0.03053	0.82477
0.02656	0.61940	1.69448	0.02666	-2.52578	0.65910	-0.00210	1.91517	0.64410	-0.03104	0.82932
0.02719	0.53315	1.69795	0.02839	-2.50851	0.64629	-0.00213	1.84589	0.65050	-0.03143	0.83315
0.02783	0.43395	1.70134	0.03005	-2.48888	0.63310	-0.00215	1.77121	0.65746	-0.03162	0.83564
0.02848	0.32781	1.70473	0.03165	-2.46830	0.62134	-0.00218	1.69535	0.66461	-0.03164	0.83688
0.02915	0.21414	1.70820	0.03338	-2.44667	0.61078	-0.00222	1.61790	0.67208	-0.03153	0.83723
0.02984	0.10205	1.71181	0.03527	-2.42545	0.60000	-0.00225	1.54368	0.67962	-0.03134	0.83720
0.03054	-0.01385	1.71540	0.03737	-2.40327	0.58791	-0.00228	1.47065	0.68744	-0.03115	0.83731
0.03126	-0.13765	1.71886	0.03957	-2.37920	0.57466	-0.00232	1.39790	0.69564	-0.03098	0.83771
0.03199	-0.25145	1.72228	0.04153	-2.35675	0.56235	-0.00235	1.33415	0.70331	-0.03086	0.83855
0.03275	-0.34761	1.72573	0.04312	-2.33787	0.55229	-0.00238	1.28042	0.71012	-0.03076	0.83971
0.03352	-0.43892	1.72913	0.04451	-2.32053	0.54402	-0.00241	1.22877	0.71675	-0.03064	0.84077
0.03430	-0.54307	1.73233	0.04605	-2.30128	0.53669	-0.00245	1.17154	0.72405	-0.03047	0.84153
0.03511	-0.66181	1.73527	0.04783	-2.27936	0.52986	-0.00248	1.11009	0.73206	-0.03023	0.84186
0.03594	-0.77857	1.73762	0.04953	-2.25722	0.52344	-0.00252	1.05301	0.73984	-0.02985	0.84131
0.03678	-0.87669	1.73924	0.05085	-2.23793	0.51883	-0.00256	1.00682	0.74639	-0.02934	0.83974
0.03765	-0.95663	1.74041	0.05191	-2.22173	0.51721	-0.00260	0.97054	0.75167	-0.02869	0.83717
0.03854	-1.02554	1.74117	0.05284	-2.20722	0.51794	-0.00264	0.94049	0.75611	-0.02794	0.83374
0.03944	-1.09592	1.74177	0.05384	-2.19205	0.51857	-0.00268	0.91089	0.76064	-0.02720	0.83027
0.04037	-1.17716	1.74228	0.05497	-2.17447	0.51769	-0.00273	0.87777	0.76591	-0.02660	0.82767
0.04132	-1.26316	1.74232	0.05595	-2.15544	0.51625	-0.00278	0.84375	0.77148	-0.02611	0.82581
0.04229	-1.34538	1.74237	0.05655	-2.13725	0.51643	-0.00283	0.81270	0.77667	-0.02555	0.82358
0.04329	-1.41966	1.74300	0.05692	-2.12138	0.51908	-0.00287	0.78614	0.78121	-0.02486	0.82062
0.04431	-1.48890	1.74340	0.05727	-2.10654	0.52181	-0.00292	0.76167	0.78546	-0.02415	0.81740
0.04535	-1.56906	1.74281	0.05795	-2.08883	0.52237	-0.00296	0.73297	0.79055	-0.02357	0.81483

0.04642	-1.66234	1.74137	0.05908	-2.06776	0.52133	-0.00301	0.69980	0.79667	-0.02321	0.81363
0.04751	-1.74763	1.73911	0.06012	-2.04718	0.52083	-0.00306	0.66956	0.80240	-0.02304	0.81371
0.04863	-1.80839	1.73622	0.06046	-2.03056	0.52347	-0.00311	0.64755	0.80647	-0.02293	0.81415
0.04977	-1.84582	1.73343	0.06012	-2.01873	0.53068	-0.00316	0.63358	0.80873	-0.02269	0.81365
0.05094	-1.87417	1.73088	0.05942	-2.00926	0.54009	-0.00321	0.62337	0.81012	-0.02240	0.81270
0.05214	-1.91262	1.72822	0.05871	-1.99805	0.54840	-0.00325	0.61081	0.81202	-0.02220	0.81251
0.05337	-1.96786	1.72529	0.05804	-1.98355	0.55417	-0.00330	0.59370	0.81502	-0.02203	0.81279
0.05462	-2.03962	1.72199	0.05740	-1.96560	0.55645	-0.00333	0.57198	0.81925	-0.02171	0.81238
0.05591	-2.13209	1.71803	0.05687	-1.94334	0.55610	-0.00337	0.54399	0.82514	-0.02129	0.81153
0.05722	-2.22598	1.71340	0.05628	-1.92048	0.55800	-0.00341	0.51569	0.83121	-0.02101	0.81181
0.05857	-2.29675	1.70870	0.05550	-1.90192	0.56484	-0.00346	0.49483	0.83547	-0.02070	0.81215
0.05995	-2.33697	1.70376	0.05435	-1.88866	0.57511	-0.00351	0.48379	0.83713	-0.02005	0.81026
0.06136	-2.35379	1.69823	0.05266	-1.87915	0.58693	-0.00356	0.48030	0.83662	-0.01917	0.80655
0.06280	-2.36095	1.69244	0.05054	-1.87121	0.59919	-0.00361	0.48004	0.83514	-0.01840	0.80339
0.06428	-2.37321	1.68643	0.04842	-1.86182	0.60971	-0.00365	0.47873	0.83399	-0.01784	0.80173
0.06579	-2.39629	1.68010	0.04648	-1.84967	0.61786	-0.00370	0.47445	0.83373	-0.01731	0.80050
0.06734	-2.41601	1.67275	0.04410	-1.83708	0.62482	-0.00374	0.46974	0.83350	-0.01668	0.79889
0.06893	-2.42395	1.66418	0.04093	-1.82585	0.63163	-0.00377	0.46599	0.83280	-0.01604	0.79700
0.07055	-2.43153	1.65572	0.03763	-1.81562	0.63937	-0.00379	0.46070	0.83239	-0.01515	0.79318
0.07221	-2.45413	1.64832	0.03479	-1.80414	0.64728	-0.00382	0.45100	0.83331	-0.01368	0.78510
0.07391	-2.48189	1.64268	0.03229	-1.79308	0.65572	-0.00386	0.44165	0.83443	-0.01177	0.77363
0.07565	-2.50701	1.63799	0.02999	-1.78298	0.66472	-0.00389	0.43490	0.83496	-0.00990	0.76206
0.07743	-2.53355	1.63276	0.02783	-1.77183	0.67376	-0.00393	0.42826	0.83542	-0.00841	0.75268
0.07925	-2.56114	1.62745	0.02570	-1.76025	0.68371	-0.00398	0.42131	0.83601	-0.00721	0.74495
0.08111	-2.58891	1.62242	0.02355	-1.74906	0.69360	-0.00402	0.41378	0.83683	-0.00620	0.73820
0.08302	-2.61850	1.61629	0.02138	-1.73684	0.70222	-0.00406	0.40489	0.83795	-0.00549	0.73347
0.08498	-2.64500	1.60895	0.01889	-1.72429	0.71095	-0.00409	0.39674	0.83864	-0.00495	0.73011
0.08697	-2.65489	1.60175	0.01588	-1.71526	0.72225	-0.00412	0.39378	0.83751	-0.00429	0.72616
0.08902	-2.65148	1.59480	0.01266	-1.70922	0.73553	-0.00415	0.39503	0.83490	-0.00352	0.72175
0.09112	-2.65857	1.58694	0.00961	-1.70075	0.74747	-0.00418	0.39284	0.83326	-0.00287	0.71827
0.09326	-2.68131	1.57686	0.00638	-1.68780	0.75635	-0.00421	0.38420	0.83344	-0.00249	0.71690
0.09545	-2.70059	1.56525	0.00278	-1.67459	0.76444	-0.00422	0.37470	0.83362	-0.00235	0.71771
0.09770	-2.70141	1.55367	-0.00100	-1.66512	0.77436	-0.00424	0.37011	0.83197	-0.00234	0.71976
0.10000	-2.69222	1.54303	-0.00457	-1.65832	0.78519	-0.00425	0.36947	0.82906	-0.00225	0.72165
0.10235	-2.70002	1.53299	-0.00754	-1.64829	0.79229	-0.00426	0.36588	0.82752	-0.00219	0.72398
0.10476	-2.74326	1.52340	-0.00987	-1.63078	0.79210	-0.00427	0.35438	0.82944	-0.00240	0.72800
0.10723	-2.80509	1.51558	-0.01195	-1.61037	0.78877	-0.00428	0.33971	0.83333	-0.00257	0.73148
0.10975	-2.85597	1.51052	-0.01420	-1.59430	0.78822	-0.00429	0.32919	0.83623	-0.00226	0.73143
0.11233	-2.89718	1.50752	-0.01647	-1.58227	0.79081	-0.00431	0.32141	0.83830	-0.00158	0.72827
0.11498	-2.94426	1.50486	-0.01860	-1.57027	0.79413	-0.00433	0.31117	0.84127	-0.00097	0.72492
0.11768	-3.00216	1.50102	-0.02064	-1.55633	0.79649	-0.00434	0.29643	0.84590	-0.00077	0.72385
0.12045	-3.05046	1.49455	-0.02320	-1.54254	0.79804	-0.00433	0.28216	0.85004	-0.00099	0.72547
0.12328	-3.07485	1.48577	-0.02660	-1.53105	0.80200	-0.00432	0.27314	0.85144	-0.00143	0.72888
0.12619	-3.07595	1.47612	-0.03075	-1.52274	0.81105	-0.00433	0.27090	0.84926	-0.00170	0.73149
0.12916	-3.06374	1.46673	-0.03532	-1.51703	0.82299	-0.00434	0.27352	0.84453	-0.00148	0.73122
0.13219	-3.03993	1.45790	-0.04027	-1.51443	0.83507	-0.00434	0.28000	0.83788	-0.00088	0.72863
0.13531	-3.00494	1.45010	-0.04551	-1.51564	0.84808	-0.00434	0.29028	0.82953	-0.00028	0.72606
0.13849	-2.96214	1.44354	-0.05066	-1.52007	0.86460	-0.00433	0.30429	0.81978	0.00007	0.72466
0.14175	-2.91531	1.43812	-0.05553	-1.52622	0.88578	-0.00434	0.32150	0.80919	0.00033	0.72315
0.14508	-2.86965	1.43373	-0.06021	-1.53254	0.90693	-0.00436	0.34006	0.79890	0.00075	0.71991
0.14850	-2.82826	1.42945	-0.06496	-1.53736	0.92112	-0.00436	0.35790	0.78973	0.00127	0.71565
0.15199	-2.79256	1.42411	-0.06992	-1.53949	0.92774	-0.00434	0.37394	0.78168	0.00189	0.71086
0.15557	-2.76936	1.41822	-0.07468	-1.53867	0.93154	-0.00432	0.38685	0.77481	0.00293	0.70356
0.15923	-2.76302	1.41346	-0.07881	-1.53643	0.93647	-0.00430	0.39614	0.76916	0.00442	0.69329
0.16298	-2.76475	1.41040	-0.08244	-1.53530	0.94220	-0.00428	0.40392	0.76405	0.00579	0.68346
0.16681	-2.76150	1.40892	-0.08579	-1.53739	0.94701	-0.00426	0.41365	0.75859	0.00661	0.67691
0.17074	-2.75132	1.40900	-0.08878	-1.54246	0.95022	-0.00421	0.42618	0.75280	0.00687	0.67388
0.17475	-2.74452	1.40975	-0.09140	-1.54726	0.95218	-0.00417	0.43797	0.74768	0.00668	0.67365
0.17887	-2.74715	1.40968	-0.09391	-1.54912	0.95532	-0.00414	0.44670	0.74342	0.00637	0.67413
0.18307	-2.75385	1.40800	-0.09663	-1.54835	0.96306	-0.00413	0.45511	0.73880	0.00637	0.67267
0.18738	-2.75984	1.40493	-0.09969	-1.54601	0.97541	-0.00414	0.46623	0.73302	0.00671	0.66918
0.19179	-2.76728	1.40154	-0.10289	-1.54293	0.98696	-0.00416	0.47913	0.72674	0.00715	0.66540
0.19631	-2.78984	1.39956	-0.10572	-1.53857	0.99150	-0.00416	0.48710	0.72226	0.00746	0.66286
0.20092	-2.83565	1.40023	-0.10778	-1.53280	0.98985	-0.00413	0.48575	0.72093	0.00742	0.66312
0.20565	-2.89489	1.40304	-0.10918	-1.52694	0.98777	-0.00411	0.47855	0.72164	0.00691	0.66667
0.21049	-2.94497	1.40665	-0.11072	-1.52392	0.98958	-0.00409	0.47419	0.72169	0.00620	0.67150
0.21544	-2.96816	1.40993	-0.11322	-1.52601	0.99662	-0.00407	0.47987	0.71876	0.00576	0.67455
0.22051	-2.96581	1.41173	-0.11684	-1.53172	1.00931	-0.00407	0.49595	0.71254	0.00571	0.67503
0.22570	-2.94995	1.41135	-0.12112	-1.53791	1.02642	-0.00408	0.51884	0.70406	0.00575	0.67503
0.23101	-2.93369	1.40926	-0.12538	-1.54249	1.04313	-0.00409	0.54387	0.69494	0.00559	0.67661
0.23645	-2.92879	1.40647	-0.12902	-1.54420	1.05279	-0.00408	0.56592	0.68681	0.00517	0.68037
0.24201	-2.94373	1.40403	-0.13165	-1.54232	1.05176	-0.00404	0.58072	0.68084	0.00451	0.68599
0.24771	-2.97778	1.40328	-0.13333	-1.53836	1.04388	-0.00398	0.58896	0.67690	0.00385	0.69191
0.25354	-3.01747	1.40508	-0.13464	-1.53604	1.03764	-0.00392	0.59711	0.67343	0.00341	0.69646
0.25950	-3.03589	1.40912	-0.13640	-1.54067	1.04027	-0.00388	0.61711	0.66766	0.00319	0.69968
0.26561	-3.01403	1.41439	-0.13908	-1.55507	1.05413	-0.00385	0.65789	0.65788	0.00315	0.70207
0.27186	-2.95813	1.41992	-0.14251	-1.57686	1.07623	-0.00383	0.71754	0.64510	0.00331	0.70345
0.27826	-2.89240	1.42457	-0.14637	-1.60003	1.09953	-0.00380	0.78473	0.63175	0.00363	0.70373
0.28480	-2.83750	1.42769	-0.15048	-1.61998	1.11777	-0.00376	0.84843	0.61948	0.00412	0.70273
0.29150	-2.80344	1.42962	-0.15457	-1.63519	1.12850	-0.00371	0.90308	0.60888	0.00474	0.70037
0.29836	-2.79748	1.43099	-0.15820	-1.64446	1.13127	-0.00364	0.94374	0.60055	0.00538	0.69745

0.30539	-2.82997	1.43221	-0.16092	-1.64543	1.12641	-0.00358	0.96278	0.59545	0.00592	0.69497
0.31257	-2.90788	1.43334	-0.16264	-1.63626	1.11568	-0.00353	0.95458	0.59422	0.00628	0.69358
0.31993	-3.02820	1.43458	-0.16353	-1.61780	1.10246	-0.00350	0.92082	0.59663	0.00648	0.69335
0.32745	-3.17347	1.43638	-0.16389	-1.59454	1.09078	-0.00349	0.87313	0.60124	0.00669	0.69316
0.33517	-3.31722	1.43922	-0.16421	-1.57296	1.08432	-0.00350	0.82887	0.60563	0.00715	0.69134
0.34304	-3.43278	1.44335	-0.16495	-1.55899	1.08662	-0.00351	0.80429	0.60717	0.00785	0.68766
0.35112	-3.51131	1.44813	-0.16632	-1.55364	1.09805	-0.00353	0.80358	0.60490	0.00841	0.68449
0.35938	-3.55591	1.45234	-0.16844	-1.55477	1.11486	-0.00355	0.82276	0.59940	0.00839	0.68469
0.36784	-3.57672	1.45550	-0.17122	-1.55981	1.13218	-0.00356	0.85547	0.59177	0.00771	0.68884
0.37649	-3.59002	1.45770	-0.17432	-1.56562	1.14618	-0.00356	0.89290	0.58348	0.00655	0.69578
0.38536	-3.61242	1.45899	-0.17744	-1.56887	1.15548	-0.00355	0.92603	0.57573	0.00517	0.70398
0.39442	-3.65007	1.45929	-0.18056	-1.56806	1.16077	-0.00354	0.95220	0.56874	0.00381	0.71223
0.40370	-3.69830	1.45902	-0.18379	-1.56451	1.16345	-0.00353	0.97548	0.56193	0.00263	0.71972
0.41321	-3.75060	1.45923	-0.18705	-1.56074	1.16470	-0.00352	0.99975	0.55511	0.00173	0.72588
0.42292	-3.80843	1.46089	-0.19000	-1.55773	1.16494	-0.00350	1.02204	0.54889	0.00117	0.73027
0.43288	-3.87624	1.46442	-0.19239	-1.55505	1.16446	-0.00347	1.03809	0.54383	0.00100	0.73245
0.44307	-3.95172	1.46929	-0.19429	-1.55237	1.16345	-0.00345	1.04915	0.53972	0.00121	0.73243
0.45349	-4.02608	1.47458	-0.19597	-1.55018	1.16200	-0.00342	1.06257	0.53559	0.00156	0.73173
0.46417	-4.09191	1.47973	-0.19751	-1.54919	1.16005	-0.00339	1.08566	0.53056	0.00173	0.73263
0.47508	-4.14832	1.48472	-0.19889	-1.54969	1.15762	-0.00336	1.11987	0.52446	0.00151	0.73652
0.48626	-4.19802	1.48991	-0.20018	-1.55192	1.15503	-0.00332	1.16256	0.51767	0.00103	0.74238
0.49771	-4.24680	1.49564	-0.20148	-1.55553	1.15166	-0.00328	1.20809	0.51083	0.00075	0.74698
0.50942	-4.30464	1.50151	-0.20284	-1.55824	1.14505	-0.00322	1.24722	0.50464	0.00093	0.74849
0.52140	-4.37589	1.50654	-0.20430	-1.55786	1.13343	-0.00315	1.27578	0.49918	0.00137	0.74817
0.53367	-4.45584	1.50989	-0.20597	-1.55408	1.11780	-0.00308	1.29757	0.49388	0.00171	0.74864
0.54624	-4.54013	1.51140	-0.20785	-1.54733	1.10065	-0.00300	1.31609	0.48843	0.00176	0.75138
0.55910	-4.62491	1.51169	-0.20982	-1.53899	1.08535	-0.00294	1.33693	0.48241	0.00160	0.75582
0.57225	-4.70686	1.51159	-0.21170	-1.53070	1.07483	-0.00290	1.36659	0.47533	0.00143	0.76059
0.58569	-4.78432	1.51162	-0.21340	-1.52343	1.06997	-0.00288	1.40804	0.46710	0.00133	0.76504
0.59948	-4.85724	1.51197	-0.21498	-1.51755	1.06984	-0.00288	1.46005	0.45807	0.00126	0.76942
0.61357	-4.92278	1.51281	-0.21651	-1.51400	1.07379	-0.00289	1.52209	0.44856	0.00116	0.77395
0.62802	-4.97271	1.51461	-0.21801	-1.51530	1.08302	-0.00291	1.60399	0.43805	0.00103	0.77847
0.64280	-4.99907	1.51771	-0.21946	-1.52354	1.09905	-0.00293	1.71902	0.42593	0.00089	0.78280
0.65794	-5.00552	1.52190	-0.22084	-1.53760	1.12151	-0.00297	1.86899	0.41244	0.00072	0.78731
0.67340	-5.00183	1.52664	-0.22222	-1.55468	1.14864	-0.00301	2.04461	0.39848	0.00052	0.79227
0.68927	-4.99426	1.53162	-0.22367	-1.57322	1.17906	-0.00306	2.23852	0.38460	0.00034	0.79737
0.70547	-4.98157	1.53671	-0.22527	-1.59337	1.21164	-0.00311	2.45176	0.37085	0.00028	0.80182
0.72207	-4.96002	1.54183	-0.22708	-1.61587	1.24567	-0.00316	2.69562	0.35676	0.00036	0.80506
0.73910	-4.93114	1.54684	-0.22909	-1.64010	1.27950	-0.00320	2.97492	0.34227	0.00063	0.80636
0.75649	-4.89912	1.55158	-0.23127	-1.66491	1.31110	-0.00323	3.28588	0.32772	0.00116	0.80491
0.77429	-4.86485	1.55604	-0.23355	-1.69005	1.33948	-0.00324	3.62711	0.31338	0.00195	0.80034
0.79246	-4.82451	1.56023	-0.23583	-1.71617	1.36469	-0.00324	4.00115	0.29946	0.00290	0.79331
0.81116	-4.77199	1.56428	-0.23799	-1.74463	1.38789	-0.00321	4.42024	0.28589	0.00381	0.78537
0.83022	-4.70586	1.56833	-0.23991	-1.77542	1.40946	-0.00318	4.88429	0.27299	0.00449	0.77822
0.84976	-4.62879	1.57252	-0.24158	-1.80795	1.42962	-0.00313	5.39150	0.26085	0.00482	0.77294
0.86972	-4.55177	1.57677	-0.24303	-1.83967	1.44761	-0.00308	5.91719	0.24983	0.00485	0.76966
0.89023	-4.48992	1.58090	-0.24438	-1.86731	1.46235	-0.00302	6.42435	0.24024	0.00475	0.76780
0.91116	-4.45443	1.58468	-0.24579	-1.88825	1.47287	-0.00298	6.87139	0.23237	0.00462	0.76723
0.93257	-4.44569	1.58804	-0.24736	-1.90236	1.47922	-0.00293	7.24363	0.22617	0.00445	0.76825
0.95456	-4.45877	1.59108	-0.24913	-1.91076	1.48184	-0.00289	7.54179	0.22150	0.00419	0.77151
0.97704	-4.48841	1.59403	-0.25110	-1.91470	1.48112	-0.00285	7.76946	0.21825	0.00375	0.77741
1.00000	-4.53165	1.59717	-0.25322	-1.91506	1.47735	-0.00281	7.93179	0.21625	0.00316	0.78584
1.02354	-4.58809	1.60065	-0.25550	-1.91217	1.47064	-0.00277	8.03255	0.21535	0.00245	0.79627
1.04767	-4.65911	1.60445	-0.25791	-1.90581	1.46094	-0.00272	8.07184	0.21540	0.00169	0.80787
1.07227	-4.74584	1.60840	-0.26045	-1.89567	1.44827	-0.00268	8.04873	0.21630	0.00095	0.81976
1.09745	-4.84976	1.61228	-0.26318	-1.88141	1.43256	-0.00264	7.96190	0.21798	0.00030	0.83127
1.12334	-4.97357	1.61593	-0.26612	-1.86242	1.41348	-0.00260	7.80517	0.22049	-0.00021	0.84190
1.14982	-5.11756	1.61927	-0.26929	-1.83863	1.39103	-0.00256	7.57742	0.22386	-0.00055	0.85124
1.17675	-5.27996	1.62232	-0.27264	-1.81049	1.36549	-0.00252	7.28542	0.22809	-0.00070	0.85900
1.20453	-5.46017	1.62524	-0.27616	-1.77834	1.33693	-0.00248	6.93823	0.23315	-0.00069	0.86518
1.23289	-5.65133	1.62808	-0.27973	-1.74372	1.30642	-0.00244	6.55993	0.23878	-0.00057	0.86973
1.26183	-5.84710	1.63092	-0.28327	-1.70808	1.27489	-0.00240	6.17427	0.24468	-0.00037	0.87282
1.29149	-6.04118	1.63380	-0.28673	-1.67285	1.24316	-0.00236	5.80290	0.25052	-0.00016	0.87471
1.32188	-6.22771	1.63673	-0.29006	-1.63937	1.21207	-0.00231	5.46273	0.25597	0.00008	0.87560
1.35300	-6.40352	1.63969	-0.29322	-1.60835	1.18211	-0.00226	5.16210	0.26080	0.00033	0.87568
1.38485	-6.56854	1.64262	-0.29620	-1.57980	1.15348	-0.00222	4.90054	0.26493	0.00061	0.87523
1.41743	-6.72434	1.64546	-0.29902	-1.55336	1.12635	-0.00217	4.67365	0.26832	0.00092	0.87456
1.45075	-6.87274	1.64814	-0.30169	-1.52864	1.10096	-0.00213	4.47647	0.27097	0.00126	0.87387
1.48500	-7.01693	1.65062	-0.30425	-1.50499	1.07742	-0.00209	4.30337	0.27285	0.00162	0.87340
1.51999	-7.15671	1.65285	-0.30671	-1.48243	1.05634	-0.00207	4.15503	0.27385	0.00197	0.87340
1.55569	-7.29131	1.65482	-0.30909	-1.46119	1.03832	-0.00205	4.03484	0.27375	0.00227	0.87421
1.59236	-7.41834	1.65660	-0.31139	-1.44193	1.02408	-0.00205	3.95143	0.27225	0.00250	0.87620
1.62973	-7.53419	1.65827	-0.31360	-1.42556	1.01434	-0.00206	3.91314	0.26912	0.00263	0.87951
1.66806	-7.63825	1.65995	-0.31573	-1.41247	1.00926	-0.00207	3.92388	0.26422	0.00271	0.88405
1.70736	-7.73226	1.66170	-0.31781	-1.40247	1.00841	-0.00210	3.98101	0.25770	0.00278	0.88960
1.74764	-7.81833	1.66356	-0.31982	-1.39519	1.01109	-0.00213	4.08182	0.24976	0.00286	0.89602
1.78859	-7.90060	1.66551	-0.32172	-1.38967	1.01609	-0.00217	4.21589	0.24082	0.00296	0.90309
1.83083	-7.98425	1.66758	-0.32352	-1.38497	1.02236	-0.00221	4.37714	0.23113	0.00312	0.91063
1.87371	-8.06910	1.66974	-0.32511	-1.38090	1.02916	-0.00225	4.56155	0.22102	0.00335	0.91813
1.91791	-8.15670	1.67200	-0.32648	-1.37727	1.03617	-0.00229	4.77181	0.21050	0.00370	0.92529
1.96309	-8.24453	1.67425	-0.32761	-1.37434	1.04332	-0.00233	5.01103	0.19972	0.00414	0.93181

2.00924	-8.32950	1.67643	-0.32849	-1.37259	1.05092	-0.00237	5.28576	0.18872	0.00466	0.93765
2.05634	-8.40893	1.67847	-0.32917	-1.37238	1.05926	-0.00240	5.60154	0.17762	0.00522	0.94284
2.10482	-8.48230	1.68031	-0.32970	-1.37381	1.06840	-0.00243	5.96199	0.16650	0.00580	0.94742
2.15424	-8.55019	1.68193	-0.33010	-1.37646	1.07783	-0.00245	6.35609	0.15570	0.00638	0.95124
2.20507	-8.61534	1.68335	-0.33038	-1.37986	1.08712	-0.00247	6.77483	0.14539	0.00695	0.95423
2.25683	-8.67828	1.68462	-0.33059	-1.38370	1.09585	-0.00249	7.20202	0.13588	0.00749	0.95646
2.31000	-8.74205	1.68583	-0.33077	-1.38749	1.10359	-0.00250	7.62295	0.12729	0.00798	0.95809
2.36463	-8.81035	1.68707	-0.33095	-1.39044	1.10961	-0.00250	8.01499	0.11982	0.00842	0.95929
2.42014	-8.88404	1.68842	-0.33115	-1.39220	1.11351	-0.00250	8.36246	0.11354	0.00879	0.96009
2.47709	-8.96365	1.68997	-0.33135	-1.39287	1.11536	-0.00250	8.66652	0.10835	0.00911	0.96054
2.53550	-9.04867	1.69180	-0.33157	-1.39256	1.11539	-0.00249	8.92826	0.10414	0.00937	0.96085
2.59471	-9.13678	1.69392	-0.33178	-1.39153	1.11409	-0.00248	9.15027	0.10081	0.00952	0.96137
2.65604	-9.22785	1.69638	-0.33198	-1.39020	1.11201	-0.00247	9.34494	0.09819	0.00955	0.96254
2.71887	-9.31949	1.69918	-0.33216	-1.38883	1.10955	-0.00246	9.51474	0.09621	0.00943	0.96471
2.78242	-9.40991	1.70230	-0.33232	-1.38759	1.10695	-0.00244	9.66085	0.09481	0.00916	0.96805
2.84819	-9.50114	1.70579	-0.33246	-1.38647	1.10420	-0.00243	9.78786	0.09390	0.00877	0.97274
2.91545	-9.59267	1.70965	-0.33260	-1.38535	1.10132	-0.00241	9.89367	0.09341	0.00828	0.97879
2.98329	-9.68295	1.71372	-0.33267	-1.38432	1.09847	-0.00240	9.98081	0.09327	0.00774	0.98588
3.05344	-9.77517	1.71816	-0.33273	-1.38310	1.09548	-0.00238	10.05060	0.09341	0.00715	0.99388
3.12598	-9.86857	1.72287	-0.33272	-1.38191	1.09250	-0.00236	10.10801	0.09377	0.00654	1.00244
3.19898	-9.96122	1.72774	-0.33268	-1.38057	1.08953	-0.00235	10.15153	0.09428	0.00595	1.01096
3.27439	-10.05513	1.73282	-0.33256	-1.37921	1.08657	-0.00233	10.18540	0.09493	0.00536	1.01929
3.35121	-10.14947	1.73806	-0.33242	-1.37766	1.08357	-0.00232	10.20894	0.09567	0.00480	1.02709
3.43053	-10.24492	1.74346	-0.33220	-1.37611	1.08060	-0.00230	10.22584	0.09650	0.00426	1.03464
3.51124	-10.34087	1.74899	-0.33197	-1.37432	1.07756	-0.00229	10.23465	0.09736	0.00375	1.04203
3.59324	-10.43617	1.75452	-0.33161	-1.37261	1.07463	-0.00228	10.23906	0.09827	0.00328	1.04955
3.67782	-10.53392	1.76036	-0.33131	-1.37056	1.07152	-0.00226	10.23550	0.09919	0.00282	1.05764
3.76506	-10.63185	1.76612	-0.33078	-1.36867	1.06854	-0.00225	10.23041	0.10015	0.00240	1.06664
3.85356	-10.73204	1.77232	-0.33038	-1.36628	1.06530	-0.00223	10.21447	0.10113	0.00199	1.07636
3.94477	-10.83148	1.77824	-0.32968	-1.36417	1.06227	-0.00222	10.20039	0.10210	0.00162	1.08670
4.03714	-10.93341	1.78472	-0.32912	-1.36162	1.05901	-0.00221	10.17559	0.10312	0.00127	1.09728
4.13223	-11.03586	1.79108	-0.32837	-1.35906	1.05579	-0.00219	10.14992	0.10410	0.00094	1.10790
4.23012	-11.13980	1.79764	-0.32744	-1.35655	1.05261	-0.00218	10.12070	0.10514	0.00064	1.11830
4.32900	-11.24672	1.80478	-0.32673	-1.35342	1.04911	-0.00217	10.08145	0.10615	0.00036	1.12794
4.43066	-11.35097	1.81128	-0.32549	-1.35085	1.04600	-0.00216	10.04882	0.10715	0.00010	1.13691
4.53515	-11.46115	1.81884	-0.32447	-1.34772	1.04253	-0.00214	10.00382	0.10821	-0.00015	1.14529
4.64253	-11.57275	1.82645	-0.32336	-1.34436	1.03898	-0.00213	9.95692	0.10922	-0.00037	1.15303
4.75059	-11.67958	1.83336	-0.32174	-1.34172	1.03594	-0.00212	9.91681	0.11023	-0.00058	1.16006
4.86145	-11.79484	1.84186	-0.32056	-1.33817	1.03231	-0.00210	9.86088	0.11130	-0.00079	1.16660
4.97760	-11.91066	1.84996	-0.31905	-1.33470	1.02876	-0.00209	9.80831	0.11231	-0.00098	1.17275
5.09424	-12.02144	1.85738	-0.31701	-1.33200	1.02577	-0.00208	9.76241	0.11334	-0.00116	1.17838
5.21376	-12.14271	1.86684	-0.31554	-1.32822	1.02205	-0.00207	9.69858	0.11444	-0.00133	1.18368
5.33618	-12.26127	1.87559	-0.31382	-1.32457	1.01849	-0.00205	9.64012	0.11543	-0.00149	1.18866
5.46150	-12.37358	1.88311	-0.31129	-1.32198	1.01567	-0.00204	9.59287	0.11644	-0.00164	1.19347
5.58971	-12.49771	1.89303	-0.30933	-1.31836	1.01213	-0.00203	9.52721	0.11756	-0.00178	1.19825
5.72082	-12.62457	1.90337	-0.30761	-1.31418	1.00824	-0.00202	9.45759	0.11859	-0.00192	1.20304
5.85823	-12.73990	1.91101	-0.30465	-1.31159	1.00549	-0.00201	9.40920	0.11957	-0.00203	1.20805
5.99520	-12.86066	1.92024	-0.30192	-1.30868	1.00250	-0.00199	9.35059	0.12066	-0.00215	1.21312
6.13497	-12.99471	1.93214	-0.30002	-1.30436	0.99853	-0.00198	9.27331	0.12179	-0.00226	1.21832
6.28141	-13.11917	1.94163	-0.29745	-1.30084	0.99517	-0.00197	9.21202	0.12276	-0.00235	1.22372
6.42674	-13.22970	1.94886	-0.29392	-1.29886	0.99294	-0.00196	9.16756	0.12373	-0.00243	1.22911
6.57895	-13.35879	1.95955	-0.29089	-1.29573	0.98983	-0.00195	9.10208	0.12487	-0.00252	1.23480
6.73401	-13.50127	1.97300	-0.28878	-1.29117	0.98568	-0.00193	9.01975	0.12602	-0.00259	1.24061
6.89180	-13.62159	1.98192	-0.28579	-1.28809	0.98268	-0.00192	8.96392	0.12693	-0.00265	1.24642
7.05716	-13.73334	1.98885	-0.28156	-1.28652	0.98078	-0.00191	8.92254	0.12789	-0.00270	1.25240
7.22022	-13.85892	1.99922	-0.27807	-1.28387	0.97806	-0.00190	8.86235	0.12899	-0.00274	1.25814
7.39098	-14.00729	2.01382	-0.27549	-1.27944	0.97399	-0.00189	8.77817	0.13020	-0.00279	1.26387
7.56430	-14.13936	2.02519	-0.27281	-1.27560	0.97042	-0.00187	8.71099	0.13116	-0.00282	1.26922
7.73994	-14.23813	2.03002	-0.26832	-1.27468	0.96908	-0.00187	8.68156	0.13195	-0.00284	1.27410
7.92393	-14.35672	2.03858	-0.26392	-1.27296	0.96708	-0.00186	8.63383	0.13297	-0.00286	1.27869
8.11030	-14.49279	2.05087	-0.26019	-1.27004	0.96414	-0.00184	8.56751	0.13413	-0.00288	1.28284
8.29876	-14.64941	2.06745	-0.25771	-1.26519	0.95971	-0.00183	8.47810	0.13536	-0.00289	1.28660
8.49618	-14.77178	2.07671	-0.25439	-1.26223	0.95681	-0.00182	8.42404	0.13621	-0.00290	1.29013
8.69565	-14.85993	2.07938	-0.24922	-1.26227	0.95625	-0.00181	8.40675	0.13690	-0.00290	1.29340
8.90472	-14.97867	2.08792	-0.24443	-1.26086	0.95449	-0.00180	8.36213	0.13790	-0.00290	1.29663
9.11577	-15.10950	2.09916	-0.24004	-1.25868	0.95211	-0.00179	8.30552	0.13901	-0.00289	1.29979
9.32836	-15.27260	2.11714	-0.23690	-1.25427	0.94794	-0.00177	8.21705	0.14034	-0.00288	1.30298
9.54198	-15.41506	2.13114	-0.23435	-1.25000	0.94397	-0.00176	8.14308	0.14135	-0.00286	1.30632
9.76563	-15.48953	2.13125	-0.22945	-1.25034	0.94373	-0.00176	8.13637	0.14181	-0.00285	1.31013
10.00000	-15.58026	2.13433	-0.22380	-1.25067	0.94341	-0.00175	8.11972	0.14252	-0.00284	1.31457

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Atkinson and Boore (1995) model
Median stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 305 - 610 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-4.56162	2.14978	-0.10724	-1.97508	1.54184	-0.00208	2.25639	0.39985	-0.00833	0.32768
PGV	1.57681	1.58346	-0.09835	-2.15330	1.50809	-0.00274	2.54676	0.43158	-0.03345	0.47422
PGA	-0.97006	1.50552	-0.01846	-2.18283	1.07752	-0.00314	1.54097	0.59742	-0.02787	0.72681
0.01000	-0.76129	1.51546	-0.01700	-2.22495	1.06504	-0.00308	1.67337	0.59106	-0.01733	0.70895
0.01024	-0.76618	1.51719	-0.01640	-2.22491	1.06083	-0.00307	1.66665	0.59235	-0.01731	0.70932
0.01048	-0.76839	1.51888	-0.01583	-2.22535	1.05681	-0.00307	1.66152	0.59349	-0.01729	0.70967
0.01072	-0.76764	1.52055	-0.01527	-2.22632	1.05298	-0.00306	1.65816	0.59450	-0.01728	0.71001
0.01097	-0.76385	1.52221	-0.01471	-2.22784	1.04930	-0.00305	1.65658	0.59535	-0.01728	0.71034
0.01123	-0.75651	1.52388	-0.01415	-2.23003	1.04578	-0.00304	1.65714	0.59605	-0.01729	0.71068
0.01150	-0.74584	1.52557	-0.01359	-2.23284	1.04237	-0.00303	1.65963	0.59660	-0.01730	0.71103
0.01177	-0.73172	1.52729	-0.01303	-2.23631	1.03904	-0.00302	1.66412	0.59702	-0.01733	0.71139
0.01205	-0.71383	1.52907	-0.01245	-2.24049	1.03574	-0.00301	1.67079	0.59728	-0.01737	0.71181
0.01233	-0.69194	1.53090	-0.01186	-2.24543	1.03243	-0.00299	1.67974	0.59740	-0.01742	0.71228
0.01262	-0.66587	1.53281	-0.01125	-2.25118	1.02909	-0.00298	1.69107	0.59738	-0.01749	0.71284
0.01292	-0.63554	1.53482	-0.01061	-2.25774	1.02567	-0.00296	1.70477	0.59722	-0.01758	0.71347
0.01322	-0.60019	1.53694	-0.00994	-2.26529	1.02219	-0.00295	1.72133	0.59691	-0.01768	0.71416
0.01353	-0.55910	1.53920	-0.00924	-2.27395	1.01861	-0.00293	1.74121	0.59641	-0.01779	0.71495
0.01385	-0.51139	1.54163	-0.00851	-2.28391	1.01487	-0.00291	1.76495	0.59572	-0.01792	0.71588
0.01417	-0.45691	1.54424	-0.00772	-2.29517	1.01088	-0.00288	1.79264	0.59485	-0.01809	0.71701
0.01451	-0.39505	1.54704	-0.00689	-2.30785	1.00655	-0.00286	1.82472	0.59379	-0.01828	0.71842
0.01485	-0.32580	1.55006	-0.00601	-2.32193	1.00187	-0.00283	1.86122	0.59256	-0.01852	0.72015
0.01520	-0.24952	1.55328	-0.00507	-2.33735	0.99690	-0.00280	1.90189	0.59118	-0.01880	0.72216
0.01556	-0.16832	1.55668	-0.00408	-2.35368	0.99143	-0.00276	1.94525	0.58976	-0.01910	0.72447
0.01592	-0.08269	1.56027	-0.00303	-2.37078	0.98532	-0.00273	1.99093	0.58835	-0.01945	0.72718
0.01630	0.00664	1.56408	-0.00190	-2.38852	0.97836	-0.00269	2.03827	0.58701	-0.01985	0.73031
0.01668	0.09913	1.56816	-0.00068	-2.40681	0.97052	-0.00265	2.08671	0.58580	-0.02029	0.73379
0.01707	0.19297	1.57252	0.00062	-2.42529	0.96164	-0.00262	2.13474	0.58480	-0.02076	0.73754
0.01748	0.28837	1.57710	0.00198	-2.44397	0.95175	-0.00257	2.18260	0.58399	-0.02124	0.74152
0.01789	0.38705	1.58184	0.00338	-2.46316	0.94096	-0.00253	2.23183	0.58324	-0.02174	0.74566
0.01831	0.48702	1.58670	0.00484	-2.48249	0.92930	-0.00249	2.28099	0.58262	-0.02223	0.74986
0.01874	0.58280	1.59164	0.00636	-2.50092	0.91695	-0.00244	2.32598	0.58232	-0.02270	0.75397
0.01918	0.67600	1.59666	0.00792	-2.51873	0.90425	-0.00240	2.36821	0.58226	-0.02317	0.75809
0.01963	0.76736	1.60175	0.00947	-2.53604	0.89123	-0.00236	2.40837	0.58237	-0.02366	0.76239
0.02009	0.85156	1.60693	0.01105	-2.55194	0.87768	-0.00232	2.44169	0.58290	-0.02423	0.76727
0.02057	0.92424	1.61225	0.01270	-2.56563	0.86286	-0.00229	2.46453	0.58406	-0.02488	0.77275
0.02105	0.98326	1.61758	0.01441	-2.57658	0.84695	-0.00225	2.47683	0.58579	-0.02547	0.77785
0.02154	1.02893	1.62275	0.01615	-2.58482	0.83097	-0.00222	2.48004	0.58795	-0.02593	0.78206
0.02205	1.06205	1.62772	0.01793	-2.59045	0.81473	-0.00220	2.47469	0.59051	-0.02629	0.78559
0.02257	1.07811	1.63245	0.01967	-2.59259	0.79770	-0.00218	2.45739	0.59366	-0.02655	0.78854
0.02310	1.07834	1.63691	0.02127	-2.59156	0.78038	-0.00217	2.42981	0.59728	-0.02673	0.79092
0.02364	1.06567	1.64112	0.02273	-2.58805	0.76379	-0.00216	2.39453	0.60122	-0.02686	0.79301
0.02420	1.04343	1.64512	0.02409	-2.58260	0.74739	-0.00215	2.35422	0.60538	-0.02696	0.79490
0.02477	1.01433	1.64906	0.02538	-2.57583	0.73076	-0.00215	2.31039	0.60976	-0.02702	0.79649
0.02535	0.97872	1.65309	0.02677	-2.56816	0.71609	-0.00215	2.26308	0.61429	-0.02711	0.79838
0.02595	0.93648	1.65715	0.02828	-2.55938	0.70340	-0.00216	2.21297	0.61896	-0.02730	0.80098
0.02656	0.88689	1.66120	0.02985	-2.54894	0.68964	-0.00217	2.15927	0.62398	-0.02750	0.80382
0.02719	0.82813	1.66529	0.03149	-2.53667	0.67420	-0.00218	2.09962	0.62953	-0.02764	0.80619
0.02783	0.75840	1.66928	0.03318	-2.52264	0.65923	-0.00220	2.03326	0.63553	-0.02767	0.80769
0.02848	0.67666	1.67299	0.03490	-2.50648	0.64556	-0.00221	1.96147	0.64187	-0.02763	0.80867
0.02915	0.58629	1.67617	0.03648	-2.48835	0.63341	-0.00224	1.88858	0.64829	-0.02757	0.80959
0.02984	0.48708	1.67876	0.03793	-2.46831	0.62287	-0.00227	1.81415	0.65482	-0.02744	0.81005
0.03054	0.37113	1.68104	0.03952	-2.44514	0.61325	-0.00231	1.73238	0.66198	-0.02723	0.81013
0.03126	0.23899	1.68321	0.04129	-2.41903	0.60391	-0.00235	1.64400	0.66989	-0.02705	0.81058
0.03199	0.10121	1.68520	0.04298	-2.39176	0.59455	-0.00240	1.55658	0.67806	-0.02684	0.81108
0.03275	-0.03273	1.68717	0.04446	-2.36508	0.58466	-0.00244	1.47531	0.68612	-0.02650	0.81086
0.03352	-0.16663	1.68904	0.04584	-2.33837	0.57434	-0.00248	1.39689	0.69431	-0.02612	0.81036
0.03430	-0.30191	1.69061	0.04720	-2.31109	0.56346	-0.00252	1.31947	0.70281	-0.02582	0.81052
0.03511	-0.42887	1.69226	0.04857	-2.28513	0.55154	-0.00256	1.24776	0.71129	-0.02555	0.81092
0.03594	-0.53920	1.69397	0.04993	-2.26243	0.54112	-0.00259	1.18655	0.71901	-0.02522	0.81087
0.03678	-0.64026	1.69518	0.05123	-2.24149	0.53426	-0.00262	1.13230	0.72599	-0.02497	0.81125
0.03765	-0.74050	1.69572	0.05238	-2.22038	0.52976	-0.00267	1.08058	0.73271	-0.02485	0.81257
0.03854	-0.83674	1.69597	0.05341	-2.19987	0.52745	-0.00271	1.03359	0.73896	-0.02474	0.81408
0.03944	-0.93050	1.69603	0.05445	-2.17964	0.52648	-0.00276	0.99133	0.74476	-0.02450	0.81474
0.04037	-1.01777	1.69590	0.05544	-2.16044	0.52603	-0.00281	0.95412	0.75005	-0.02409	0.81393
0.04132	-1.11343	1.69548	0.05646	-2.13949	0.52427	-0.00286	0.91327	0.75607	-0.02343	0.81143
0.04229	-1.21522	1.69471	0.05738	-2.11730	0.52095	-0.00290	0.86899	0.76285	-0.02262	0.80789
0.04329	-1.30450	1.69317	0.05774	-2.09732	0.51924	-0.00294	0.82938	0.76896	-0.02192	0.80478
0.04431	-1.38138	1.69088	0.05757	-2.07947	0.52001	-0.00297	0.79433	0.77432	-0.02140	0.80294
0.04535	-1.46357	1.68812	0.05748	-2.06037	0.52078	-0.00301	0.75722	0.78020	-0.02095	0.80156

0.04642	-1.55344	1.68478	0.05760	-2.03915	0.52031	-0.00305	0.71874	0.78664	-0.02043	0.79977
0.04751	-1.64782	1.68117	0.05785	-2.01653	0.51894	-0.00309	0.68169	0.79320	-0.01993	0.79798
0.04863	-1.73739	1.67798	0.05818	-1.99484	0.51812	-0.00313	0.64963	0.79918	-0.01947	0.79619
0.04977	-1.80100	1.67548	0.05816	-1.97845	0.52073	-0.00318	0.62890	0.80302	-0.01902	0.79445
0.05094	-1.82844	1.67333	0.05743	-1.96907	0.52734	-0.00322	0.62154	0.80401	-0.01857	0.79251
0.05214	-1.83759	1.67090	0.05611	-1.96256	0.53560	-0.00326	0.62061	0.80356	-0.01799	0.78978
0.05337	-1.86553	1.66793	0.05485	-1.95196	0.54348	-0.00331	0.61307	0.80445	-0.01731	0.78673
0.05462	-1.93147	1.66461	0.05415	-1.93399	0.54890	-0.00337	0.59273	0.80822	-0.01673	0.78444
0.05591	-2.01665	1.66113	0.05380	-1.91257	0.55246	-0.00342	0.56635	0.81357	-0.01625	0.78274
0.05722	-2.09799	1.65712	0.05332	-1.89183	0.55621	-0.00347	0.54088	0.81883	-0.01588	0.78159
0.05857	-2.16421	1.65319	0.05266	-1.87464	0.56196	-0.00352	0.51968	0.82312	-0.01551	0.78063
0.05995	-2.21482	1.65008	0.05188	-1.86162	0.57041	-0.00357	0.50371	0.82615	-0.01495	0.77864
0.06136	-2.26267	1.64687	0.05090	-1.84906	0.57845	-0.00361	0.48946	0.82880	-0.01412	0.77492
0.06280	-2.31470	1.64270	0.04961	-1.83441	0.58401	-0.00365	0.47476	0.83169	-0.01323	0.77066
0.06428	-2.35828	1.63785	0.04798	-1.82016	0.58937	-0.00369	0.46308	0.83384	-0.01259	0.76821
0.06579	-2.37789	1.63300	0.04591	-1.81034	0.59821	-0.00373	0.45824	0.83395	-0.01211	0.76691
0.06734	-2.36619	1.62801	0.04330	-1.80658	0.61135	-0.00377	0.46180	0.83142	-0.01146	0.76428
0.06893	-2.32981	1.62232	0.04031	-1.80691	0.62619	-0.00380	0.47228	0.82676	-0.01055	0.75962
0.07055	-2.29402	1.61681	0.03740	-1.80692	0.63875	-0.00383	0.48387	0.82203	-0.00942	0.75317
0.07221	-2.29151	1.61206	0.03504	-1.80104	0.64605	-0.00386	0.48636	0.82022	-0.00825	0.74628
0.07391	-2.32171	1.60704	0.03311	-1.78892	0.65165	-0.00389	0.47857	0.82119	-0.00713	0.73974
0.07565	-2.36399	1.60095	0.03119	-1.77395	0.65835	-0.00393	0.46655	0.82306	-0.00611	0.73416
0.07743	-2.40805	1.59428	0.02901	-1.75865	0.66549	-0.00397	0.45360	0.82507	-0.00522	0.72938
0.07925	-2.45812	1.58813	0.02677	-1.74277	0.67304	-0.00401	0.43974	0.82749	-0.00443	0.72519
0.08111	-2.52074	1.58267	0.02488	-1.72475	0.68017	-0.00406	0.42316	0.83104	-0.00374	0.72173
0.08302	-2.58086	1.57684	0.02300	-1.70685	0.68590	-0.00410	0.40660	0.83471	-0.00313	0.71880
0.08498	-2.63537	1.56944	0.02088	-1.68888	0.68950	-0.00413	0.39015	0.83830	-0.00254	0.71590
0.08697	-2.67516	1.55981	0.01809	-1.67194	0.69256	-0.00415	0.37604	0.84090	-0.00187	0.71242
0.08902	-2.68699	1.54832	0.01437	-1.65885	0.69780	-0.00416	0.36812	0.84100	-0.00111	0.70829
0.09112	-2.67055	1.53652	0.01005	-1.65112	0.70840	-0.00418	0.36792	0.83803	-0.00030	0.70398
0.09326	-2.65329	1.52558	0.00571	-1.64447	0.72192	-0.00420	0.36895	0.83457	0.00043	0.70053
0.09545	-2.64682	1.51471	0.00135	-1.63556	0.73389	-0.00423	0.36754	0.83207	0.00102	0.69842
0.09770	-2.63852	1.50442	-0.00306	-1.62717	0.74495	-0.00425	0.36799	0.82907	0.00153	0.69724
0.10000	-2.62607	1.49605	-0.00724	-1.62156	0.75699	-0.00427	0.37144	0.82518	0.00223	0.69506
0.10235	-2.62608	1.48824	-0.01085	-1.61448	0.76926	-0.00430	0.37274	0.82201	0.00310	0.69169
0.10476	-2.63517	1.48006	-0.01408	-1.60563	0.78210	-0.00433	0.37216	0.81934	0.00381	0.68944
0.10723	-2.65187	1.47170	-0.01713	-1.59548	0.79373	-0.00435	0.36909	0.81753	0.00424	0.68920
0.10975	-2.67918	1.46369	-0.02027	-1.58381	0.79990	-0.00437	0.36290	0.81706	0.00437	0.69025
0.11233	-2.71062	1.45629	-0.02372	-1.57223	0.80056	-0.00436	0.35590	0.81715	0.00421	0.69218
0.11498	-2.73924	1.45025	-0.02719	-1.56254	0.80007	-0.00434	0.35035	0.81706	0.00386	0.69440
0.11768	-2.75622	1.44596	-0.03055	-1.55646	0.80192	-0.00433	0.34895	0.81577	0.00352	0.69610
0.12045	-2.75609	1.44200	-0.03402	-1.55407	0.80833	-0.00432	0.35231	0.81264	0.00323	0.69740
0.12328	-2.74677	1.43728	-0.03764	-1.55269	0.81896	-0.00431	0.35812	0.80831	0.00300	0.69876
0.12619	-2.74214	1.43190	-0.04125	-1.54924	0.83312	-0.00433	0.36341	0.80385	0.00303	0.69894
0.12916	-2.74510	1.42578	-0.04467	-1.54323	0.84900	-0.00437	0.36693	0.79971	0.00347	0.69642
0.13219	-2.75801	1.41910	-0.04771	-1.53471	0.86254	-0.00441	0.36721	0.79664	0.00413	0.69215
0.13531	-2.78719	1.41284	-0.05033	-1.52341	0.86997	-0.00443	0.36273	0.79558	0.00464	0.68844
0.13849	-2.83168	1.40751	-0.05275	-1.51007	0.87068	-0.00444	0.35375	0.79663	0.00498	0.68553
0.14175	-2.88622	1.40294	-0.05523	-1.49589	0.86692	-0.00443	0.34117	0.79936	0.00529	0.68250
0.14508	-2.94004	1.39851	-0.05797	-1.48270	0.86293	-0.00441	0.32811	0.80230	0.00565	0.67903
0.14850	-2.98656	1.39464	-0.06076	-1.47238	0.86293	-0.00440	0.31753	0.80411	0.00630	0.67379
0.15199	-3.02890	1.39150	-0.06350	-1.46395	0.86500	-0.00439	0.30908	0.80506	0.00739	0.66557
0.15557	-3.06389	1.38791	-0.06661	-1.45581	0.86556	-0.00438	0.30300	0.80512	0.00850	0.65688
0.15923	-3.08119	1.38338	-0.07037	-1.44922	0.86623	-0.00436	0.30221	0.80288	0.00924	0.65065
0.16298	-3.08330	1.37839	-0.07434	-1.44477	0.86806	-0.00434	0.30643	0.79841	0.00966	0.64683
0.16681	-3.07569	1.37341	-0.07827	-1.44228	0.86928	-0.00431	0.31414	0.79254	0.00994	0.64444
0.17074	-3.05959	1.36895	-0.08240	-1.44204	0.86867	-0.00426	0.32480	0.78576	0.01011	0.64270
0.17475	-3.04639	1.36606	-0.08664	-1.44293	0.86901	-0.00422	0.33545	0.77950	0.01005	0.64217
0.17887	-3.04599	1.36546	-0.09058	-1.44393	0.87467	-0.00420	0.34362	0.77455	0.00966	0.64402
0.18307	-3.04990	1.36662	-0.09393	-1.44668	0.88638	-0.00421	0.35228	0.76939	0.00927	0.64678
0.18738	-3.04372	1.36820	-0.09688	-1.45268	0.90193	-0.00421	0.36592	0.76223	0.00919	0.64845
0.19179	-3.02792	1.37015	-0.09964	-1.46129	0.91872	-0.00421	0.38426	0.75369	0.00922	0.64950
0.19631	-3.02257	1.37274	-0.10209	-1.46858	0.93178	-0.00419	0.39964	0.74675	0.00905	0.65134
0.20092	-3.04989	1.37557	-0.10396	-1.46971	0.93708	-0.00416	0.40320	0.74398	0.00867	0.65391
0.20565	-3.10162	1.37744	-0.10548	-1.46509	0.93798	-0.00414	0.39814	0.74377	0.00813	0.65698
0.21049	-3.15240	1.37658	-0.10741	-1.45790	0.93874	-0.00412	0.39357	0.74271	0.00742	0.66102
0.21544	-3.19559	1.37242	-0.11013	-1.44904	0.93793	-0.00410	0.39160	0.73993	0.00685	0.66463
0.22051	-3.23417	1.36715	-0.11345	-1.44001	0.93591	-0.00406	0.39192	0.73606	0.00671	0.66608
0.22570	-3.25242	1.36504	-0.11707	-1.43791	0.93853	-0.00403	0.40103	0.73007	0.00689	0.66592
0.23101	-3.23767	1.36812	-0.12066	-1.44732	0.94949	-0.00400	0.42419	0.72110	0.00724	0.66483
0.23645	-3.20739	1.37404	-0.12397	-1.46292	0.96571	-0.00398	0.45506	0.71088	0.00781	0.66241
0.24201	-3.19198	1.37899	-0.12679	-1.47537	0.98111	-0.00397	0.48081	0.70214	0.00845	0.65955
0.24771	-3.20572	1.38181	-0.12908	-1.48052	0.99412	-0.00396	0.49573	0.69579	0.00879	0.65870
0.25354	-3.23622	1.38307	-0.13118	-1.48054	1.00776	-0.00397	0.50642	0.69019	0.00868	0.66094
0.25950	-3.25496	1.38380	-0.13372	-1.48140	1.02549	-0.00399	0.52622	0.68252	0.00839	0.66455
0.26561	-3.25901	1.38540	-0.13672	-1.48496	1.04397	-0.00402	0.55597	0.67340	0.00833	0.66669
0.27186	-3.28592	1.38809	-0.13944	-1.48468	1.05245	-0.00403	0.57476	0.66779	0.00870	0.66570
0.27826	-3.35742	1.39040	-0.14133	-1.47579	1.04680	-0.00401	0.56825	0.66783	0.00926	0.66313
0.28480	-3.44988	1.39074	-0.14283	-1.46192	1.03327	-0.00398	0.54848	0.67006	0.00964	0.66152
0.29150	-3.52815	1.38944	-0.14488	-1.44991	1.01974	-0.00392	0.53566	0.66991	0.00976	0.66177
0.29836	-3.57260	1.38807	-0.14788	-1.44445	1.01264	-0.00387	0.54170	0.66502	0.00968	0.66311

0.30539	-3.58346	1.38786	-0.15149	-1.44604	1.01441	-0.00383	0.56697	0.65613	0.00942	0.66504
0.31257	-3.57799	1.38882	-0.15516	-1.45078	1.02113	-0.00380	0.60110	0.64641	0.00897	0.66769
0.31993	-3.57678	1.39038	-0.15855	-1.45413	1.02635	-0.00377	0.63205	0.63850	0.00824	0.67204
0.32745	-3.60109	1.39283	-0.16124	-1.45277	1.02700	-0.00375	0.64869	0.63423	0.00713	0.67897
0.33517	-3.65949	1.39740	-0.16304	-1.44737	1.02556	-0.00374	0.64791	0.63369	0.00596	0.68649
0.34304	-3.73695	1.40379	-0.16436	-1.44174	1.02385	-0.00373	0.63905	0.63447	0.00531	0.69071
0.35112	-3.80699	1.41005	-0.16598	-1.43937	1.02166	-0.00371	0.63721	0.63302	0.00535	0.69024
0.35938	-3.85319	1.41447	-0.16827	-1.44106	1.02004	-0.00367	0.65139	0.62749	0.00579	0.68692
0.36784	-3.87162	1.41715	-0.17108	-1.44672	1.02223	-0.00363	0.68565	0.61772	0.00619	0.68386
0.37649	-3.87116	1.41947	-0.17397	-1.45538	1.03026	-0.00359	0.73619	0.60553	0.00632	0.68283
0.38536	-3.87163	1.42273	-0.17660	-1.46454	1.04199	-0.00357	0.78950	0.59395	0.00630	0.68279
0.39442	-3.89070	1.42726	-0.17889	-1.47142	1.05364	-0.00356	0.83137	0.58502	0.00651	0.68116
0.40370	-3.92568	1.43245	-0.18092	-1.47637	1.06385	-0.00355	0.86214	0.57805	0.00707	0.67753
0.41321	-3.96026	1.43708	-0.18272	-1.48162	1.07241	-0.00353	0.89418	0.57079	0.00771	0.67393
0.42292	-3.98952	1.43986	-0.18443	-1.48653	1.07739	-0.00350	0.93333	0.56216	0.00810	0.67254
0.43288	-4.01390	1.44051	-0.18635	-1.49022	1.07786	-0.00345	0.98155	0.55201	0.00806	0.67441
0.44307	-4.03519	1.44003	-0.18868	-1.49297	1.07536	-0.00339	1.03738	0.54103	0.00760	0.67898
0.45349	-4.05932	1.44012	-0.19126	-1.49537	1.07269	-0.00333	1.09436	0.53057	0.00677	0.68552
0.46417	-4.08984	1.44246	-0.19381	-1.49865	1.07422	-0.00329	1.14753	0.52153	0.00567	0.69373
0.47508	-4.12150	1.44838	-0.19610	-1.50549	1.08307	-0.00327	1.20016	0.51377	0.00449	0.70290
0.48626	-4.14502	1.45790	-0.19808	-1.51834	1.09724	-0.00326	1.26051	0.50642	0.00348	0.71150
0.49771	-4.15644	1.46929	-0.19984	-1.53655	1.11130	-0.00324	1.33400	0.49854	0.00280	0.71820
0.50942	-4.16151	1.48014	-0.20149	-1.55627	1.12096	-0.00320	1.41851	0.48982	0.00236	0.72316
0.52140	-4.16322	1.48866	-0.20316	-1.57446	1.12648	-0.00314	1.51535	0.47987	0.00195	0.72772
0.53367	-4.16447	1.49440	-0.20492	-1.58952	1.13025	-0.00309	1.62461	0.46885	0.00157	0.73232
0.54624	-4.17394	1.49793	-0.20675	-1.60001	1.13307	-0.00305	1.73641	0.45780	0.00134	0.73671
0.55910	-4.19087	1.50072	-0.20855	-1.60765	1.13598	-0.00300	1.84697	0.44739	0.00116	0.74182
0.57225	-4.20221	1.50460	-0.21025	-1.61739	1.14168	-0.00297	1.96679	0.43734	0.00085	0.74874
0.58569	-4.20054	1.51036	-0.21185	-1.63202	1.15237	-0.00293	2.10355	0.42734	0.00035	0.75720
0.59948	-4.19656	1.51745	-0.21341	-1.64908	1.16704	-0.00290	2.24693	0.41772	-0.00029	0.76619
0.61357	-4.21946	1.52452	-0.21498	-1.66122	1.18121	-0.00289	2.36266	0.40960	-0.00085	0.77402
0.62802	-4.28999	1.53074	-0.21647	-1.66329	1.19171	-0.00290	2.42508	0.40358	-0.00123	0.77995
0.64280	-4.40522	1.53588	-0.21782	-1.65533	1.19818	-0.00292	2.43504	0.39945	-0.00140	0.78425
0.65794	-4.54341	1.54017	-0.21911	-1.64171	1.20177	-0.00295	2.41785	0.39625	-0.00140	0.78738
0.67340	-4.67284	1.54361	-0.22054	-1.62863	1.20414	-0.00297	2.41219	0.39246	-0.00142	0.79048
0.68927	-4.77270	1.54591	-0.22227	-1.61992	1.20610	-0.00298	2.44620	0.38689	-0.00164	0.79505
0.70547	-4.83813	1.54707	-0.22417	-1.61649	1.20739	-0.00298	2.52803	0.37931	-0.00213	0.80152
0.72207	-4.87159	1.54782	-0.22601	-1.61894	1.20904	-0.00296	2.66190	0.36982	-0.00265	0.80844
0.73910	-4.88126	1.54896	-0.22768	-1.62674	1.21216	-0.00293	2.84370	0.35895	-0.00286	0.81323
0.75649	-4.88211	1.55056	-0.22927	-1.63705	1.21540	-0.00289	3.05617	0.34754	-0.00258	0.81445
0.77429	-4.87947	1.55250	-0.23091	-1.64870	1.21812	-0.00284	3.29299	0.33597	-0.00191	0.81220
0.79246	-4.86859	1.55501	-0.23264	-1.66286	1.22192	-0.00279	3.55781	0.32445	-0.00092	0.80692
0.81116	-4.85045	1.55851	-0.23446	-1.67978	1.22860	-0.00274	3.84344	0.31344	0.00033	0.79912
0.83022	-4.83109	1.56309	-0.23632	-1.69824	1.23891	-0.00270	4.12694	0.30365	0.00172	0.78968
0.84976	-4.81865	1.56835	-0.23822	-1.71608	1.25149	-0.00266	4.39051	0.29521	0.00304	0.77997
0.86972	-4.83371	1.57336	-0.24017	-1.72774	1.26142	-0.00264	4.59178	0.28863	0.00405	0.77198
0.89023	-4.90095	1.57737	-0.24224	-1.72719	1.26336	-0.00262	4.68078	0.28447	0.00461	0.76710
0.91116	-5.03033	1.58011	-0.24445	-1.71194	1.25502	-0.00261	4.63531	0.28292	0.00482	0.76525
0.93257	-5.21164	1.58195	-0.24679	-1.68454	1.23817	-0.00260	4.47952	0.28353	0.00486	0.76516
0.95456	-5.43146	1.58337	-0.24913	-1.64839	1.21562	-0.00260	4.24356	0.28595	0.00483	0.76618
0.97704	-5.67874	1.58469	-0.25135	-1.60614	1.18972	-0.00262	3.94916	0.29002	0.00472	0.76833
1.00000	-5.93606	1.58606	-0.25334	-1.56166	1.16311	-0.00263	3.63389	0.29513	0.00443	0.77225
1.02354	-6.17824	1.58757	-0.25513	-1.52037	1.13921	-0.00266	3.35311	0.29986	0.00386	0.77873
1.04767	-6.38587	1.58917	-0.25678	-1.48644	1.12063	-0.00268	3.14814	0.30269	0.00302	0.78769
1.07227	-6.55415	1.59087	-0.25838	-1.46101	1.10796	-0.00270	3.02927	0.30283	0.00210	0.79777
1.09745	-6.68364	1.59290	-0.26000	-1.44449	1.10162	-0.00272	2.99699	0.30000	0.00139	0.80695
1.12334	-6.77126	1.59552	-0.26162	-1.43816	1.10310	-0.00274	3.06126	0.29389	0.00114	0.81336
1.14982	-6.81021	1.59864	-0.26320	-1.44361	1.11414	-0.00276	3.24248	0.28413	0.00137	0.81653
1.17675	-6.80016	1.60185	-0.26465	-1.46044	1.13429	-0.00278	3.55333	0.27097	0.00189	0.81748
1.20453	-6.75457	1.60469	-0.26595	-1.48534	1.16036	-0.00279	3.98762	0.25532	0.00247	0.81747
1.23289	-6.69455	1.60682	-0.26709	-1.51309	1.18741	-0.00279	4.51087	0.23873	0.00300	0.81722
1.26183	-6.63981	1.60830	-0.26812	-1.53934	1.21162	-0.00279	5.08140	0.22245	0.00350	0.81695
1.29149	-6.60282	1.60940	-0.26908	-1.56165	1.23113	-0.00278	5.66781	0.20708	0.00402	0.81642
1.32188	-6.58806	1.61051	-0.27004	-1.57933	1.24586	-0.00276	6.24597	0.19300	0.00464	0.81533
1.35300	-6.59150	1.61191	-0.27101	-1.59338	1.25734	-0.00274	6.80613	0.18039	0.00530	0.81405
1.38485	-6.60614	1.61369	-0.27207	-1.60516	1.26737	-0.00272	7.34442	0.16930	0.00587	0.81357
1.41743	-6.62459	1.61588	-0.27328	-1.61608	1.27739	-0.00271	7.85982	0.15977	0.00627	0.81471
1.45075	-6.64313	1.61844	-0.27470	-1.62689	1.28804	-0.00270	8.34777	0.15173	0.00653	0.81738
1.48500	-6.66286	1.62126	-0.27635	-1.63726	1.29918	-0.00270	8.80432	0.14501	0.00673	0.82098
1.51999	-6.69023	1.62415	-0.27827	-1.64551	1.30945	-0.00270	9.20652	0.13954	0.00691	0.82509
1.55569	-6.73057	1.62706	-0.28050	-1.65033	1.31759	-0.00270	9.53634	0.13522	0.00706	0.82981
1.59236	-6.78858	1.63004	-0.28306	-1.65081	1.32249	-0.00270	9.77829	0.13201	0.00719	0.83516
1.62973	-6.86494	1.63318	-0.28594	-1.64675	1.32352	-0.00270	9.92529	0.12987	0.00735	0.84097
1.66806	-6.95462	1.63660	-0.28916	-1.63929	1.32118	-0.00271	9.99781	0.12861	0.00750	0.84751
1.70736	-7.05121	1.64031	-0.29265	-1.62978	1.31614	-0.00270	10.02097	0.12800	0.00757	0.85521
1.74764	-7.15147	1.64429	-0.29639	-1.61888	1.30865	-0.00270	10.01036	0.12787	0.00752	0.86422
1.78859	-7.25450	1.64849	-0.30028	-1.60678	1.29865	-0.00268	9.96935	0.12813	0.00739	0.87432
1.83083	-7.36233	1.65295	-0.30436	-1.59328	1.28612	-0.00266	9.89564	0.12874	0.00717	0.88549
1.87371	-7.47375	1.65759	-0.30856	-1.57854	1.27160	-0.00264	9.78729	0.12970	0.00690	0.89738
1.91791	-7.59160	1.66241	-0.31296	-1.56212	1.25513	-0.00261	9.63831	0.13101	0.00659	0.90983
1.96309	-7.71691	1.66729	-0.31750	-1.54375	1.23692	-0.00258	9.44441	0.13266	0.00628	0.92225

2.00924	-7.85206	1.67217	-0.32217	-1.52296	1.21688	-0.00255	9.20036	0.13465	0.00601	0.93413
2.05634	-7.99999	1.67702	-0.32693	-1.49920	1.19475	-0.00253	8.89975	0.13698	0.00580	0.94497
2.10482	-8.16355	1.68190	-0.33175	-1.47205	1.17011	-0.00250	8.53929	0.13971	0.00565	0.95457
2.15424	-8.34029	1.68680	-0.33648	-1.44211	1.14321	-0.00247	8.12953	0.14280	0.00554	0.96276
2.20507	-8.52754	1.69184	-0.34110	-1.41014	1.11427	-0.00244	7.68489	0.14624	0.00542	0.96977
2.25683	-8.71688	1.69702	-0.34551	-1.37796	1.08448	-0.00241	7.23592	0.14983	0.00524	0.97593
2.31000	-8.90301	1.70244	-0.34972	-1.34688	1.05468	-0.00237	6.80657	0.15338	0.00500	0.98157
2.36463	-9.07965	1.70811	-0.35370	-1.31832	1.02619	-0.00233	6.42333	0.15657	0.00468	0.98676
2.42014	-9.24242	1.71392	-0.35740	-1.29320	1.00025	-0.00229	6.10358	0.15908	0.00433	0.99140
2.47709	-9.39421	1.71986	-0.36080	-1.27105	0.97705	-0.00225	5.84464	0.16073	0.00400	0.99542
2.53550	-9.53793	1.72584	-0.36390	-1.25125	0.95661	-0.00221	5.63962	0.16144	0.00371	0.99883
2.59471	-9.67586	1.73172	-0.36666	-1.23314	0.93884	-0.00218	5.47793	0.16126	0.00350	1.00166
2.65604	-9.81407	1.73753	-0.36914	-1.21568	0.92316	-0.00217	5.34610	0.16027	0.00341	1.00402
2.71887	-9.95178	1.74320	-0.37135	-1.19889	0.90985	-0.00216	5.23739	0.15864	0.00342	1.00615
2.78242	-10.08650	1.74866	-0.37324	-1.18322	0.89923	-0.00216	5.15122	0.15651	0.00354	1.00833
2.84819	-10.21793	1.75408	-0.37487	-1.16919	0.89160	-0.00216	5.09280	0.15387	0.00376	1.01100
2.91545	-10.34272	1.75946	-0.37622	-1.15736	0.88702	-0.00217	5.06290	0.15087	0.00406	1.01447
2.98329	-10.45819	1.76476	-0.37729	-1.14831	0.88537	-0.00219	5.06708	0.14753	0.00444	1.01860
3.05344	-10.56715	1.77018	-0.37813	-1.14172	0.88609	-0.00220	5.10222	0.14389	0.00492	1.02343
3.12598	-10.66771	1.77573	-0.37869	-1.13828	0.88937	-0.00222	5.18117	0.13983	0.00551	1.02849
3.19898	-10.75684	1.78126	-0.37900	-1.13794	0.89469	-0.00223	5.30081	0.13554	0.00617	1.03347
3.27439	-10.83617	1.78689	-0.37905	-1.14096	0.90221	-0.00223	5.47454	0.13081	0.00691	1.03795
3.35121	-10.90560	1.79245	-0.37887	-1.14673	0.91101	-0.00223	5.69546	0.12584	0.00766	1.04188
3.43053	-10.96603	1.79799	-0.37842	-1.15543	0.92113	-0.00223	5.97375	0.12055	0.00843	1.04528
3.51124	-11.02094	1.80340	-0.37777	-1.16558	0.93127	-0.00222	6.28246	0.11539	0.00912	1.04861
3.59324	-11.07130	1.80866	-0.37687	-1.17715	0.94131	-0.00221	6.62358	0.11039	0.00974	1.05188
3.67782	-11.12202	1.81394	-0.37585	-1.18891	0.95064	-0.00219	6.97100	0.10584	0.01024	1.05595
3.76506	-11.17279	1.81905	-0.37457	-1.20125	0.95958	-0.00218	7.33592	0.10165	0.01060	1.06081
3.85356	-11.22681	1.82431	-0.37328	-1.21260	0.96741	-0.00216	7.67636	0.09817	0.01077	1.06700
3.94477	-11.28360	1.82929	-0.37168	-1.22364	0.97480	-0.00214	8.01383	0.09517	0.01078	1.07404
4.03714	-11.34509	1.83451	-0.37010	-1.23334	0.98126	-0.00212	8.31686	0.09284	0.01061	1.08205
4.13223	-11.41287	1.83957	-0.36834	-1.24153	0.98686	-0.00211	8.59016	0.09100	0.01030	1.09065
4.23012	-11.48736	1.84466	-0.36639	-1.24842	0.99178	-0.00210	8.83451	0.08963	0.00986	1.09945
4.32900	-11.56883	1.85012	-0.36459	-1.25320	0.99541	-0.00210	9.02576	0.08877	0.00933	1.10819
4.43066	-11.65276	1.85509	-0.36238	-1.25740	0.99873	-0.00209	9.20513	0.08815	0.00877	1.11636
4.53515	-11.74467	1.86080	-0.36028	-1.26005	1.00104	-0.00209	9.34167	0.08796	0.00813	1.12444
4.64253	-11.83987	1.86659	-0.35814	-1.26178	1.00245	-0.00209	9.45538	0.08793	0.00749	1.13217
4.75059	-11.93202	1.87180	-0.35562	-1.26375	1.00366	-0.00209	9.57148	0.08797	0.00685	1.13922
4.86145	-12.03300	1.87823	-0.35341	-1.26416	1.00357	-0.00208	9.64434	0.08832	0.00618	1.14622
4.97760	-12.13672	1.88442	-0.35097	-1.26412	1.00274	-0.00207	9.70811	0.08867	0.00554	1.15291
5.09424	-12.23783	1.89001	-0.34814	-1.26423	1.00159	-0.00207	9.76922	0.08907	0.00492	1.15911
5.21376	-12.35031	1.89727	-0.34574	-1.26256	0.99900	-0.00206	9.78190	0.08977	0.00429	1.16533
5.33618	-12.46188	1.90407	-0.34321	-1.26064	0.99607	-0.00205	9.78822	0.09043	0.00371	1.17120
5.46150	-12.56893	1.90983	-0.34007	-1.25945	0.99336	-0.00204	9.80462	0.09105	0.00317	1.17685
5.58971	-12.68823	1.91759	-0.33733	-1.25669	0.98948	-0.00203	9.77681	0.09198	0.00262	1.18269
5.72082	-12.81056	1.92589	-0.33484	-1.25325	0.98523	-0.00202	9.73291	0.09292	0.00212	1.18852
5.85823	-12.92163	1.93192	-0.33142	-1.25157	0.98220	-0.00201	9.72457	0.09368	0.00169	1.19437
5.99520	-13.03795	1.93928	-0.32814	-1.24928	0.97878	-0.00199	9.69168	0.09466	0.00126	1.20037
6.13497	-13.16767	1.94911	-0.32551	-1.24534	0.97429	-0.00198	9.61983	0.09586	0.00084	1.20658
6.28141	-13.28804	1.95699	-0.32243	-1.24240	0.97062	-0.00197	9.57294	0.09683	0.00050	1.21280
6.42674	-13.39419	1.96281	-0.31865	-1.24107	0.96817	-0.00196	9.55169	0.09771	0.00020	1.21887
6.57895	-13.51854	1.97169	-0.31517	-1.23835	0.96471	-0.00195	9.49274	0.09891	-0.00012	1.22539
6.73401	-13.65691	1.98325	-0.31239	-1.23400	0.96017	-0.00194	9.40076	0.10028	-0.00042	1.23204
6.89180	-13.77336	1.99088	-0.30906	-1.23140	0.95703	-0.00193	9.35059	0.10125	-0.00065	1.23846
7.05716	-13.88069	1.99656	-0.30480	-1.23030	0.95497	-0.00192	9.32218	0.10220	-0.00086	1.24498
7.22022	-14.00190	2.00538	-0.30103	-1.22788	0.95200	-0.00191	9.25981	0.10342	-0.00107	1.25133
7.39098	-14.14619	2.01825	-0.29787	-1.22361	0.94767	-0.00189	9.15950	0.10492	-0.00129	1.25774
7.56430	-14.27515	2.02838	-0.29477	-1.22001	0.94396	-0.00188	9.08287	0.10608	-0.00145	1.26360
7.73994	-14.37035	2.03230	-0.29046	-1.21936	0.94249	-0.00187	9.06105	0.10686	-0.00157	1.26882
7.92393	-14.48494	2.03959	-0.28608	-1.21775	0.94027	-0.00186	9.01024	0.10800	-0.00170	1.27384
8.11030	-14.61720	2.05045	-0.28210	-1.21489	0.93710	-0.00185	8.93105	0.10938	-0.00184	1.27846
8.29876	-14.77072	2.06561	-0.27896	-1.21017	0.93257	-0.00184	8.81980	0.11095	-0.00198	1.28273
8.49618	-14.89047	2.07400	-0.27546	-1.20740	0.92962	-0.00183	8.75861	0.11195	-0.00206	1.28658
8.69565	-14.97535	2.07587	-0.27077	-1.20743	0.92881	-0.00182	8.74458	0.11264	-0.00212	1.29006
8.90472	-15.09056	2.08327	-0.26613	-1.20593	0.92678	-0.00181	8.69154	0.11378	-0.00220	1.29359
9.11577	-15.21807	2.09331	-0.26170	-1.20368	0.92419	-0.00180	8.62163	0.11508	-0.00227	1.29708
9.32836	-15.37850	2.11004	-0.25793	-1.19935	0.91998	-0.00179	8.51094	0.11678	-0.00235	1.30066
9.54198	-15.51923	2.12327	-0.25486	-1.19531	0.91609	-0.00177	8.42204	0.11804	-0.00240	1.30429
9.76563	-15.59101	2.12281	-0.25058	-1.19551	0.91556	-0.00177	8.41726	0.11847	-0.00242	1.30819
10.00000	-15.67820	2.12498	-0.24558	-1.19557	0.91486	-0.00176	8.39674	0.11921	-0.00244	1.31277

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Atkinson and Boore (1995) model
Median stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 610 - 1220 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-4.49158	2.19956	-0.14088	-2.02413	1.61056	-0.00217	2.44006	0.39589	-0.01357	0.34045
PGV	1.91666	1.64359	-0.09441	-2.29709	1.62852	-0.00280	2.93765	0.42263	-0.03576	0.48793
PGA	-0.77453	1.57120	-0.01390	-2.30272	1.20847	-0.00336	1.67594	0.58907	-0.02373	0.70575
0.01000	-0.56404	1.58210	-0.01236	-2.34576	1.19331	-0.00330	1.80562	0.58373	-0.01570	0.70513
0.01024	-0.56896	1.58380	-0.01179	-2.34569	1.18902	-0.00329	1.79825	0.58497	-0.01567	0.70548
0.01048	-0.57104	1.58546	-0.01122	-2.34612	1.18491	-0.00328	1.79258	0.58608	-0.01565	0.70583
0.01072	-0.57019	1.58711	-0.01067	-2.34708	1.18097	-0.00327	1.78862	0.58706	-0.01564	0.70617
0.01097	-0.56642	1.58874	-0.01012	-2.34857	1.17715	-0.00327	1.78636	0.58791	-0.01563	0.70650
0.01123	-0.55956	1.59038	-0.00958	-2.35062	1.17343	-0.00326	1.78590	0.58864	-0.01563	0.70684
0.01150	-0.54921	1.59204	-0.00903	-2.35333	1.16977	-0.00324	1.78746	0.58923	-0.01564	0.70720
0.01177	-0.53499	1.59375	-0.00847	-2.35677	1.16617	-0.00323	1.79126	0.58967	-0.01566	0.70758
0.01205	-0.51677	1.59551	-0.00790	-2.36098	1.16258	-0.00322	1.79732	0.58998	-0.01569	0.70798
0.01233	-0.49465	1.59733	-0.00731	-2.36594	1.15895	-0.00321	1.80551	0.59017	-0.01574	0.70844
0.01262	-0.46855	1.59924	-0.00671	-2.37165	1.15523	-0.00319	1.81586	0.59024	-0.01580	0.70897
0.01292	-0.43790	1.60124	-0.00607	-2.37823	1.15138	-0.00317	1.82874	0.59017	-0.01588	0.70961
0.01322	-0.40248	1.60335	-0.00541	-2.38572	1.14735	-0.00316	1.84424	0.58998	-0.01598	0.71037
0.01353	-0.36096	1.60561	-0.00471	-2.39439	1.14314	-0.00313	1.86320	0.58962	-0.01610	0.71127
0.01385	-0.31331	1.60803	-0.00397	-2.40426	1.13873	-0.00311	1.88557	0.58911	-0.01624	0.71233
0.01417	-0.25932	1.61064	-0.00319	-2.41537	1.13409	-0.00309	1.91143	0.58845	-0.01641	0.71356
0.01451	-0.19916	1.61344	-0.00236	-2.42767	1.12916	-0.00306	1.94066	0.58766	-0.01660	0.71500
0.01485	-0.13241	1.61644	-0.00148	-2.44124	1.12385	-0.00303	1.97354	0.58675	-0.01683	0.71672
0.01520	-0.05804	1.61968	-0.00054	-2.45627	1.11805	-0.00300	2.01069	0.58570	-0.01710	0.71880
0.01556	0.02298	1.62317	0.00047	-2.47256	1.11161	-0.00296	2.05135	0.58457	-0.01741	0.72126
0.01592	0.10900	1.62688	0.00155	-2.48978	1.10447	-0.00292	2.09436	0.58345	-0.01777	0.72409
0.01630	0.19842	1.63078	0.00270	-2.50760	1.09665	-0.00288	2.13872	0.58239	-0.01815	0.72724
0.01668	0.29088	1.63488	0.00391	-2.52594	1.08830	-0.00284	2.18416	0.58140	-0.01859	0.73084
0.01707	0.38613	1.63921	0.00522	-2.54476	1.07946	-0.00280	2.23039	0.58050	-0.01910	0.73499
0.01748	0.48461	1.64376	0.00661	-2.56413	1.06984	-0.00276	2.27756	0.57970	-0.01964	0.73947
0.01789	0.58479	1.64849	0.00803	-2.58370	1.05905	-0.00271	2.32458	0.57906	-0.02016	0.74391
0.01831	0.68617	1.65336	0.00942	-2.60328	1.04719	-0.00267	2.37162	0.57855	-0.02068	0.74844
0.01874	0.79183	1.65835	0.01078	-2.62348	1.03485	-0.00262	2.42147	0.57800	-0.02123	0.75314
0.01918	0.90312	1.66356	0.01212	-2.64464	1.02211	-0.00257	2.47497	0.57740	-0.02175	0.75778
0.01963	1.01045	1.66893	0.01349	-2.66496	1.00846	-0.00253	2.52456	0.57711	-0.02222	0.76211
0.02009	1.10154	1.67427	0.01494	-2.68215	0.99383	-0.00248	2.56108	0.57751	-0.02266	0.76623
0.02057	1.16799	1.67944	0.01646	-2.69447	0.97783	-0.00245	2.57843	0.57886	-0.02313	0.77053
0.02105	1.21848	1.68447	0.01797	-2.70340	0.96067	-0.00241	2.58404	0.58082	-0.02365	0.77534
0.02154	1.26488	1.68955	0.01950	-2.71134	0.94331	-0.00238	2.58692	0.58295	-0.02422	0.78044
0.02205	1.30457	1.69470	0.02111	-2.71803	0.92611	-0.00236	2.58474	0.58533	-0.02468	0.78485
0.02257	1.32497	1.69973	0.02277	-2.72105	0.90880	-0.00234	2.56894	0.58831	-0.02495	0.78796
0.02310	1.31887	1.70455	0.02447	-2.71911	0.89109	-0.00232	2.53455	0.59216	-0.02507	0.79008
0.02364	1.29848	1.70937	0.02614	-2.71456	0.87315	-0.00231	2.49045	0.59650	-0.02516	0.79212
0.02420	1.27449	1.71413	0.02771	-2.70920	0.85476	-0.00230	2.44440	0.60099	-0.02524	0.79416
0.02477	1.23622	1.71848	0.02921	-2.70083	0.83537	-0.00230	2.38985	0.60593	-0.02523	0.79572
0.02535	1.18423	1.72226	0.03058	-2.68943	0.81583	-0.00229	2.32988	0.61113	-0.02516	0.79688
0.02595	1.12762	1.72567	0.03185	-2.67694	0.79791	-0.00229	2.27091	0.61622	-0.02506	0.79777
0.02656	1.05678	1.72893	0.03323	-2.66200	0.78172	-0.00230	2.20413	0.62173	-0.02492	0.79830
0.02719	0.96552	1.73208	0.03475	-2.64336	0.76572	-0.00232	2.12512	0.62805	-0.02482	0.79901
0.02783	0.86674	1.73502	0.03629	-2.62323	0.74982	-0.00234	2.04408	0.63462	-0.02477	0.80002
0.02848	0.77148	1.73798	0.03777	-2.60395	0.73479	-0.00236	1.96784	0.64104	-0.02468	0.80077
0.02915	0.66995	1.74133	0.03934	-2.58408	0.72109	-0.00238	1.88994	0.64773	-0.02449	0.80098
0.02984	0.55906	1.74488	0.04100	-2.56269	0.70808	-0.00241	1.80949	0.65481	-0.02428	0.80125
0.03054	0.45426	1.74818	0.04255	-2.54232	0.69654	-0.00244	1.73620	0.66152	-0.02406	0.80158
0.03126	0.36518	1.75095	0.04380	-2.52485	0.68850	-0.00247	1.67462	0.66728	-0.02380	0.80172
0.03199	0.27749	1.75334	0.04499	-2.50770	0.68328	-0.00251	1.61605	0.67276	-0.02349	0.80161
0.03275	0.18886	1.75573	0.04620	-2.49026	0.67934	-0.00255	1.56082	0.67809	-0.02313	0.80121
0.03352	0.10899	1.75815	0.04731	-2.47421	0.67566	-0.00259	1.51420	0.68287	-0.02274	0.80072
0.03430	0.02750	1.76031	0.04836	-2.45769	0.67140	-0.00263	1.46814	0.68767	-0.02226	0.79978
0.03511	-0.05697	1.76213	0.04926	-2.44045	0.66610	-0.00266	1.41970	0.69280	-0.02177	0.79875
0.03594	-0.13462	1.76395	0.04983	-2.42448	0.66138	-0.00270	1.37449	0.69774	-0.02132	0.79803
0.03678	-0.20904	1.76569	0.05018	-2.40902	0.65810	-0.00273	1.33236	0.70244	-0.02086	0.79746
0.03765	-0.28868	1.76658	0.05056	-2.39165	0.65499	-0.00278	1.29047	0.70714	-0.02045	0.79714
0.03854	-0.37401	1.76652	0.05113	-2.37227	0.65152	-0.00282	1.24863	0.71188	-0.02005	0.79658
0.03944	-0.46585	1.76630	0.05190	-2.35178	0.64776	-0.00286	1.20434	0.71699	-0.01966	0.79594
0.04037	-0.56277	1.76620	0.05271	-2.33102	0.64391	-0.00291	1.15744	0.72249	-0.01932	0.79552
0.04132	-0.65856	1.76575	0.05333	-2.31029	0.64002	-0.00294	1.11236	0.72792	-0.01897	0.79507
0.04229	-0.75056	1.76484	0.05378	-2.28993	0.63734	-0.00298	1.07058	0.73305	-0.01853	0.79412
0.04329	-0.83351	1.76375	0.05419	-2.27116	0.63694	-0.00302	1.03386	0.73761	-0.01803	0.79308
0.04431	-0.91355	1.76256	0.05451	-2.25257	0.63718	-0.00307	0.99963	0.74201	-0.01760	0.79254
0.04535	-1.00226	1.76083	0.05470	-2.23186	0.63728	-0.00312	0.96290	0.74683	-0.01730	0.79267

0.04642	-1.09948	1.75825	0.05483	-2.20907	0.63893	-0.00317	0.92425	0.75189	-0.01712	0.79304
0.04751	-1.19951	1.75567	0.05507	-2.18602	0.64327	-0.00323	0.88599	0.75698	-0.01685	0.79267
0.04863	-1.29241	1.75369	0.05530	-2.16522	0.65082	-0.00330	0.85159	0.76158	-0.01627	0.79025
0.04977	-1.38307	1.75217	0.05555	-2.14553	0.65837	-0.00336	0.81889	0.76611	-0.01531	0.78524
0.05094	-1.47852	1.75020	0.05589	-2.12445	0.66239	-0.00342	0.78506	0.77109	-0.01404	0.77771
0.05214	-1.56998	1.74694	0.05606	-2.10299	0.66588	-0.00348	0.75335	0.77577	-0.01260	0.76868
0.05337	-1.65069	1.74300	0.05589	-2.08282	0.66966	-0.00353	0.72611	0.77979	-0.01131	0.76045
0.05462	-1.69795	1.73880	0.05495	-2.06846	0.67481	-0.00357	0.71076	0.78174	-0.01038	0.75462
0.05591	-1.72259	1.73395	0.05345	-2.05747	0.68022	-0.00360	0.70307	0.78227	-0.00976	0.75102
0.05722	-1.75224	1.72807	0.05181	-2.04453	0.68433	-0.00363	0.69239	0.78330	-0.00932	0.74875
0.05857	-1.79895	1.72163	0.05023	-2.02807	0.68777	-0.00367	0.67473	0.78563	-0.00901	0.74748
0.05995	-1.85923	1.71506	0.04878	-2.00927	0.69336	-0.00372	0.65249	0.78877	-0.00875	0.74680
0.06136	-1.91624	1.70887	0.04731	-1.99151	0.70255	-0.00377	0.63207	0.79155	-0.00839	0.74591
0.06280	-1.95510	1.70333	0.04556	-1.97751	0.71448	-0.00383	0.61851	0.79298	-0.00788	0.74448
0.06428	-1.97123	1.69789	0.04340	-1.96769	0.72742	-0.00389	0.61248	0.79282	-0.00714	0.74186
0.06579	-1.98822	1.69255	0.04129	-1.95801	0.73798	-0.00393	0.60579	0.79287	-0.00603	0.73670
0.06734	-2.02585	1.68714	0.03951	-1.94486	0.74582	-0.00398	0.59274	0.79438	-0.00481	0.73033
0.06893	-2.07832	1.68093	0.03773	-1.92841	0.75209	-0.00401	0.57532	0.79686	-0.00387	0.72558
0.07055	-2.13096	1.67399	0.03566	-1.91136	0.75973	-0.00406	0.55779	0.79929	-0.00327	0.72308
0.07221	-2.17635	1.66693	0.03331	-1.89605	0.77353	-0.00411	0.54235	0.80099	-0.00286	0.72212
0.07391	-2.21858	1.65985	0.03087	-1.88188	0.79027	-0.00417	0.52694	0.80256	-0.00261	0.72216
0.07565	-2.25609	1.65236	0.02844	-1.86818	0.80271	-0.00421	0.51219	0.80419	-0.00235	0.72190
0.07743	-2.28182	1.64397	0.02585	-1.85541	0.81044	-0.00424	0.50137	0.80497	-0.00182	0.71953
0.07925	-2.29803	1.63561	0.02326	-1.84405	0.81826	-0.00427	0.49534	0.80455	-0.00111	0.71575
0.08111	-2.31722	1.62814	0.02088	-1.83258	0.82789	-0.00431	0.49077	0.80389	-0.00040	0.71143
0.08302	-2.34740	1.62134	0.01869	-1.81984	0.83912	-0.00435	0.48358	0.80394	0.00040	0.70603
0.08498	-2.38658	1.61470	0.01656	-1.80628	0.85165	-0.00440	0.47275	0.80482	0.00132	0.70001
0.08697	-2.42871	1.60779	0.01427	-1.79234	0.86483	-0.00444	0.46020	0.80607	0.00211	0.69539
0.08902	-2.46583	1.60056	0.01159	-1.77901	0.87915	-0.00449	0.44922	0.80682	0.00272	0.69238
0.09112	-2.48749	1.59331	0.00856	-1.76850	0.89584	-0.00455	0.44338	0.80601	0.00336	0.68926
0.09326	-2.49956	1.58611	0.00549	-1.75961	0.91316	-0.00460	0.44076	0.80429	0.00404	0.68577
0.09545	-2.51436	1.57892	0.00261	-1.74967	0.92852	-0.00465	0.43818	0.80274	0.00458	0.68336
0.09770	-2.54329	1.57121	-0.00012	-1.73628	0.93763	-0.00469	0.43198	0.80248	0.00501	0.68199
0.10000	-2.58901	1.56306	-0.00275	-1.71949	0.93956	-0.00471	0.42080	0.80392	0.00559	0.67994
0.10235	-2.64018	1.55477	-0.00544	-1.70186	0.93906	-0.00472	0.40754	0.80607	0.00618	0.67775
0.10476	-2.67525	1.54648	-0.00851	-1.68775	0.94116	-0.00472	0.39815	0.80686	0.00661	0.67651
0.10723	-2.68839	1.53779	-0.01208	-1.67783	0.94609	-0.00473	0.39428	0.80560	0.00679	0.67705
0.10975	-2.70113	1.52864	-0.01587	-1.66766	0.94983	-0.00472	0.38960	0.80456	0.00674	0.67873
0.11233	-2.71833	1.51904	-0.01981	-1.65624	0.95266	-0.00472	0.38348	0.80393	0.00679	0.67874
0.11498	-2.72993	1.50917	-0.02380	-1.64579	0.95830	-0.00473	0.37974	0.80225	0.00728	0.67532
0.11768	-2.73940	1.49989	-0.02748	-1.63642	0.96519	-0.00473	0.37682	0.80027	0.00809	0.66976
0.12045	-2.74821	1.49238	-0.03086	-1.62876	0.97141	-0.00473	0.37473	0.79841	0.00874	0.66528
0.12328	-2.76546	1.48689	-0.03388	-1.62128	0.97745	-0.00473	0.37204	0.79722	0.00875	0.66496
0.12619	-2.78305	1.48271	-0.03686	-1.61494	0.98414	-0.00473	0.37114	0.79565	0.00835	0.66738
0.12916	-2.78610	1.47909	-0.04020	-1.61206	0.99094	-0.00473	0.37537	0.79227	0.00804	0.66940
0.13219	-2.78103	1.47586	-0.04365	-1.61126	0.99583	-0.00471	0.38327	0.78763	0.00794	0.67024
0.13531	-2.77481	1.47376	-0.04683	-1.61184	0.99806	-0.00468	0.39357	0.78249	0.00789	0.67098
0.13849	-2.75689	1.47367	-0.04990	-1.61655	1.00283	-0.00466	0.41001	0.77583	0.00785	0.67142
0.14175	-2.72513	1.47555	-0.05299	-1.62584	1.01151	-0.00465	0.43327	0.76756	0.00801	0.67019
0.14508	-2.69014	1.47666	-0.05626	-1.63523	1.01978	-0.00462	0.45784	0.75907	0.00817	0.66862
0.14850	-2.66074	1.47468	-0.05992	-1.64120	1.02708	-0.00460	0.47964	0.75093	0.00831	0.66734
0.15199	-2.63952	1.47008	-0.06391	-1.64340	1.03506	-0.00458	0.49844	0.74322	0.00848	0.66556
0.15557	-2.63281	1.46516	-0.06764	-1.64198	1.04333	-0.00457	0.51204	0.73709	0.00861	0.66338
0.15923	-2.64385	1.46083	-0.07061	-1.63705	1.05004	-0.00457	0.51822	0.73322	0.00876	0.66106
0.16298	-2.67447	1.45603	-0.07299	-1.62747	1.05290	-0.00457	0.51520	0.73178	0.00902	0.65843
0.16681	-2.72490	1.45099	-0.07515	-1.61379	1.05349	-0.00457	0.50317	0.73272	0.00925	0.65638
0.17074	-2.78325	1.44575	-0.07745	-1.59877	1.05386	-0.00457	0.48693	0.73472	0.00922	0.65614
0.17475	-2.83294	1.43992	-0.08009	-1.58506	1.05519	-0.00456	0.47277	0.73603	0.00897	0.65758
0.17887	-2.86455	1.43428	-0.08322	-1.57539	1.05804	-0.00454	0.46541	0.73539	0.00877	0.65915
0.18307	-2.87572	1.43066	-0.08667	-1.57224	1.06022	-0.00450	0.46776	0.73242	0.00869	0.66005
0.18738	-2.86412	1.42941	-0.09052	-1.57637	1.06203	-0.00444	0.48202	0.72664	0.00864	0.66070
0.19179	-2.83432	1.42973	-0.09459	-1.58574	1.06598	-0.00439	0.50759	0.71829	0.00859	0.66120
0.19631	-2.79747	1.43123	-0.09848	-1.59754	1.07405	-0.00434	0.54096	0.70851	0.00849	0.66198
0.20092	-2.75989	1.43416	-0.10208	-1.61059	1.08685	-0.00432	0.57982	0.69816	0.00824	0.66373
0.20565	-2.73520	1.43795	-0.10531	-1.62171	1.10255	-0.00432	0.61610	0.68908	0.00771	0.66762
0.21049	-2.73105	1.44063	-0.10814	-1.62810	1.11698	-0.00432	0.64158	0.68229	0.00698	0.67320
0.21544	-2.73013	1.44150	-0.11093	-1.63271	1.12705	-0.00430	0.66444	0.67573	0.00660	0.67707
0.22051	-2.73112	1.44214	-0.11369	-1.63681	1.13359	-0.00427	0.68853	0.66904	0.00697	0.67658
0.22570	-2.74590	1.44338	-0.11622	-1.63850	1.13857	-0.00425	0.70638	0.66379	0.00800	0.67168
0.23101	-2.77377	1.44406	-0.11877	-1.63623	1.14265	-0.00424	0.71681	0.65997	0.00921	0.66490
0.23645	-2.80855	1.44379	-0.12135	-1.63068	1.14521	-0.00423	0.72458	0.65670	0.01016	0.65911
0.24201	-2.85582	1.44312	-0.12357	-1.62186	1.14209	-0.00420	0.72575	0.65488	0.01057	0.65665
0.24771	-2.93482	1.44213	-0.12531	-1.60683	1.12898	-0.00416	0.70877	0.65631	0.01043	0.65769
0.25354	-3.03494	1.43972	-0.12710	-1.58685	1.11103	-0.00412	0.68007	0.65943	0.00988	0.66145
0.25950	-3.11532	1.43557	-0.12963	-1.56964	1.09994	-0.00409	0.66242	0.65983	0.00901	0.66730
0.26561	-3.15523	1.43099	-0.13287	-1.56078	1.10144	-0.00407	0.66739	0.65539	0.00807	0.67341
0.27186	-3.15876	1.42607	-0.13659	-1.55911	1.11346	-0.00407	0.69541	0.64636	0.00739	0.67794
0.27826	-3.13712	1.42154	-0.14063	-1.56267	1.13092	-0.00407	0.74116	0.63450	0.00726	0.67941
0.28480	-3.09824	1.41907	-0.14485	-1.57171	1.14740	-0.00406	0.79855	0.62174	0.00764	0.67808
0.29150	-3.04207	1.41997	-0.14896	-1.58764	1.16352	-0.00403	0.87124	0.60814	0.00812	0.67630
0.29836	-2.99168	1.42360	-0.15234	-1.60533	1.18192	-0.00401	0.94825	0.59540	0.00828	0.67570

0.30539	-2.99119	1.42780	-0.15453	-1.61379	1.19598	-0.00401	0.99602	0.58723	0.00823	0.67562
0.31257	-3.04590	1.43124	-0.15605	-1.61045	1.19856	-0.00401	1.00455	0.58415	0.00824	0.67469
0.31993	-3.11313	1.43439	-0.15761	-1.60450	1.19510	-0.00398	1.00324	0.58233	0.00830	0.67313
0.32745	-3.18007	1.43754	-0.15910	-1.59905	1.19224	-0.00395	1.00372	0.58022	0.00795	0.67426
0.33517	-3.25490	1.43988	-0.16053	-1.59137	1.18976	-0.00393	1.00146	0.57822	0.00693	0.68056
0.34304	-3.30722	1.44208	-0.16232	-1.58822	1.18974	-0.00390	1.01695	0.57401	0.00553	0.69010
0.35112	-3.31685	1.44640	-0.16424	-1.59608	1.19728	-0.00387	1.06529	0.56639	0.00428	0.69862
0.35938	-3.31590	1.45251	-0.16594	-1.60777	1.21204	-0.00388	1.12417	0.55820	0.00345	0.70391
0.36784	-3.35889	1.45749	-0.16758	-1.60905	1.22591	-0.00391	1.15134	0.55320	0.00305	0.70631
0.37649	-3.46008	1.46025	-0.16927	-1.59627	1.23111	-0.00396	1.13057	0.55271	0.00301	0.70646
0.38536	-3.57937	1.46262	-0.17094	-1.58009	1.22648	-0.00397	1.09123	0.55427	0.00309	0.70590
0.39442	-3.65817	1.46629	-0.17273	-1.57451	1.21942	-0.00394	1.08348	0.55270	0.00301	0.70666
0.40370	-3.67450	1.47110	-0.17490	-1.58353	1.21740	-0.00387	1.13185	0.54515	0.00273	0.70903
0.41321	-3.66420	1.47577	-0.17731	-1.59765	1.22097	-0.00381	1.21459	0.53432	0.00225	0.71245
0.42292	-3.67030	1.48033	-0.17962	-1.60742	1.22874	-0.00379	1.29565	0.52437	0.00170	0.71588
0.43288	-3.69995	1.48581	-0.18178	-1.61253	1.23755	-0.00379	1.36078	0.51675	0.00150	0.71698
0.44307	-3.74951	1.49259	-0.18378	-1.61469	1.24373	-0.00379	1.40385	0.51176	0.00176	0.71562
0.45349	-3.82259	1.49996	-0.18564	-1.61312	1.24630	-0.00378	1.41608	0.50960	0.00200	0.71497
0.46417	-3.91390	1.50661	-0.18766	-1.60770	1.24772	-0.00378	1.40476	0.50898	0.00186	0.71756
0.47508	-4.01176	1.51184	-0.18992	-1.59983	1.25125	-0.00379	1.38996	0.50787	0.00147	0.72237
0.48626	-4.10590	1.51528	-0.19222	-1.59131	1.25643	-0.00381	1.38711	0.50486	0.00112	0.72697
0.49771	-4.17354	1.51707	-0.19458	-1.58700	1.26251	-0.00382	1.41831	0.49835	0.00082	0.73099
0.50942	-4.21104	1.51799	-0.19706	-1.58830	1.26846	-0.00380	1.48470	0.48892	0.00042	0.73529
0.52140	-4.24711	1.51865	-0.19959	-1.58970	1.27107	-0.00378	1.55530	0.47955	-0.00009	0.74024
0.53367	-4.31353	1.51931	-0.20199	-1.58500	1.26695	-0.00376	1.59592	0.47268	-0.00044	0.74455
0.54624	-4.41048	1.52034	-0.20403	-1.57446	1.25604	-0.00374	1.60414	0.46837	-0.00046	0.74747
0.55910	-4.51002	1.52172	-0.20581	-1.56334	1.24102	-0.00370	1.60824	0.46467	-0.00034	0.75039
0.57225	-4.58148	1.52346	-0.20778	-1.55785	1.22643	-0.00365	1.64321	0.45898	-0.00020	0.75401
0.58569	-4.61011	1.52565	-0.21017	-1.56182	1.21843	-0.00359	1.73388	0.44940	-0.00012	0.75820
0.59948	-4.61274	1.52817	-0.21270	-1.57269	1.21873	-0.00353	1.87368	0.43655	-0.00016	0.76247
0.61357	-4.61943	1.53108	-0.21494	-1.58451	1.22277	-0.00349	2.02746	0.42320	-0.00019	0.76586
0.62802	-4.64703	1.53435	-0.21676	-1.59329	1.22533	-0.00344	2.16066	0.41171	-0.00024	0.76874
0.64280	-4.70816	1.53749	-0.21840	-1.59501	1.22386	-0.00339	2.24109	0.40360	-0.00029	0.77144
0.65794	-4.81066	1.54066	-0.22005	-1.58760	1.21863	-0.00335	2.25364	0.39935	-0.00003	0.77219
0.67340	-4.94223	1.54431	-0.22159	-1.57386	1.21211	-0.00334	2.21839	0.39796	0.00053	0.77132
0.68927	-5.06944	1.54867	-0.22294	-1.56121	1.20991	-0.00334	2.18800	0.39681	0.00097	0.77169
0.70547	-5.15675	1.55357	-0.22426	-1.55719	1.21759	-0.00336	2.21588	0.39307	0.00104	0.77479
0.72207	-5.19378	1.55854	-0.22571	-1.56360	1.23504	-0.00337	2.32762	0.38536	0.00084	0.77961
0.73910	-5.19801	1.56295	-0.22719	-1.57615	1.25580	-0.00338	2.50904	0.37465	0.00063	0.78410
0.75649	-5.19595	1.56679	-0.22841	-1.58950	1.27261	-0.00338	2.72095	0.36312	0.00073	0.78610
0.77429	-5.19377	1.57048	-0.22933	-1.60317	1.28261	-0.00334	2.94373	0.35186	0.00113	0.78551
0.79246	-5.19260	1.57427	-0.23006	-1.61720	1.28575	-0.00327	3.15954	0.34165	0.00148	0.78414
0.81116	-5.21381	1.57806	-0.23069	-1.62697	1.28194	-0.00318	3.32468	0.33363	0.00158	0.78341
0.83022	-5.27663	1.58164	-0.23137	-1.62801	1.27212	-0.00309	3.40640	0.32826	0.00159	0.78232
0.84976	-5.37306	1.58485	-0.23237	-1.62173	1.26024	-0.00302	3.43404	0.32408	0.00185	0.77879
0.86972	-5.46938	1.58733	-0.23396	-1.61444	1.25376	-0.00298	3.47962	0.31882	0.00231	0.77343
0.89023	-5.53671	1.58938	-0.23601	-1.61257	1.25843	-0.00297	3.59946	0.31110	0.00269	0.76849
0.91116	-5.58232	1.59157	-0.23811	-1.61564	1.27098	-0.00298	3.77239	0.30211	0.00290	0.76512
0.93257	-5.63999	1.59426	-0.23993	-1.61723	1.28237	-0.00300	3.92567	0.29413	0.00308	0.76284
0.95456	-5.71741	1.59750	-0.24151	-1.61548	1.28845	-0.00301	4.03715	0.28780	0.00326	0.76183
0.97704	-5.79604	1.60090	-0.24305	-1.61329	1.29070	-0.00301	4.14263	0.28221	0.00338	0.76295
1.00000	-5.85211	1.60415	-0.24475	-1.61499	1.29360	-0.00301	4.29756	0.27599	0.00342	0.76612
1.02354	-5.87042	1.60746	-0.24665	-1.62405	1.30124	-0.00301	4.54239	0.26837	0.00348	0.77022
1.04767	-5.85181	1.61108	-0.24870	-1.64060	1.31382	-0.00299	4.88382	0.25950	0.00373	0.77362
1.07227	-5.80444	1.61479	-0.25087	-1.66272	1.32878	-0.00296	5.30950	0.24984	0.00413	0.77626
1.09745	-5.73593	1.61843	-0.25315	-1.68868	1.34389	-0.00292	5.80261	0.23990	0.00452	0.77885
1.12334	-5.66622	1.62186	-0.25558	-1.71430	1.35666	-0.00286	6.30563	0.23068	0.00483	0.78183
1.14982	-5.62446	1.62504	-0.25817	-1.73356	1.36487	-0.00281	6.72224	0.22338	0.00498	0.78559
1.17675	-5.62133	1.62813	-0.26094	-1.74450	1.36895	-0.00276	7.00221	0.21838	0.00500	0.79010
1.20453	-5.64065	1.63139	-0.26390	-1.75088	1.37201	-0.00273	7.19341	0.21481	0.00490	0.79524
1.23289	-5.66031	1.63489	-0.26684	-1.75724	1.37654	-0.00270	7.37204	0.21158	0.00463	0.80112
1.26183	-5.68434	1.63837	-0.26956	-1.76268	1.38051	-0.00269	7.54930	0.20832	0.00429	0.80729
1.29149	-5.73460	1.64131	-0.27209	-1.76234	1.37925	-0.00267	7.68544	0.20508	0.00406	0.81243
1.32188	-5.83041	1.64326	-0.27457	-1.75162	1.36884	-0.00265	7.73392	0.20216	0.00407	0.81601
1.35300	-5.96421	1.64437	-0.27708	-1.73206	1.35000	-0.00263	7.70708	0.19952	0.00428	0.81838
1.38485	-6.11147	1.64522	-0.27970	-1.70930	1.32733	-0.00260	7.65149	0.19699	0.00467	0.81993
1.41743	-6.25909	1.64622	-0.28246	-1.68656	1.30478	-0.00258	7.58217	0.19470	0.00513	0.82134
1.45075	-6.41248	1.64734	-0.28536	-1.66260	1.28273	-0.00256	7.47468	0.19301	0.00551	0.82375
1.48500	-6.57708	1.64844	-0.28841	-1.63599	1.26045	-0.00255	7.32402	0.19194	0.00570	0.82810
1.51999	-6.74100	1.64947	-0.29154	-1.60913	1.23998	-0.00254	7.18371	0.19075	0.00572	0.83401
1.55569	-6.89159	1.65048	-0.29473	-1.58491	1.22396	-0.00255	7.10331	0.18872	0.00568	0.84034
1.59236	-7.02370	1.65155	-0.29794	-1.56477	1.21362	-0.00256	7.09816	0.18560	0.00560	0.84718
1.62973	-7.13174	1.65290	-0.30108	-1.55032	1.20964	-0.00259	7.16988	0.18156	0.00537	0.85528
1.66806	-7.21068	1.65484	-0.30405	-1.54334	1.21247	-0.00261	7.33165	0.17661	0.00502	0.86468
1.70736	-7.26297	1.65754	-0.30677	-1.54380	1.22118	-0.00262	7.58385	0.17083	0.00470	0.87395
1.74764	-7.30225	1.66082	-0.30918	-1.54886	1.23360	-0.00264	7.89887	0.16440	0.00459	0.88147
1.78859	-7.34580	1.66433	-0.31122	-1.55437	1.24730	-0.00266	8.22690	0.15774	0.00474	0.88667
1.83083	-7.40661	1.66787	-0.31290	-1.55736	1.26040	-0.00268	8.52810	0.15118	0.00506	0.89043
1.87371	-7.48999	1.67132	-0.31417	-1.55597	1.27059	-0.00270	8.76134	0.14532	0.00539	0.89423
1.91791	-7.59990	1.67469	-0.31518	-1.54919	1.27628	-0.00273	8.90438	0.14043	0.00565	0.89931
1.96309	-7.73614	1.67784	-0.31613	-1.53658	1.27611	-0.00276	8.94657	0.13655	0.00583	0.90572

2.00924	-7.89523	1.68064	-0.31712	-1.51875	1.26974	-0.00278	8.90603	0.13340	0.00600	0.91271
2.05634	-8.06996	1.68311	-0.31815	-1.49729	1.25795	-0.00280	8.81293	0.13064	0.00619	0.91935
2.10482	-8.25213	1.68553	-0.31919	-1.47445	1.24229	-0.00280	8.69539	0.12813	0.00646	0.92502
2.15424	-8.42690	1.68813	-0.32021	-1.45350	1.22521	-0.00280	8.59259	0.12582	0.00677	0.92965
2.20507	-8.58225	1.69109	-0.32127	-1.43727	1.20874	-0.00278	8.54795	0.12349	0.00706	0.93366
2.25683	-8.70986	1.69443	-0.32237	-1.42742	1.19431	-0.00274	8.59095	0.12096	0.00732	0.93689
2.31000	-8.80900	1.69816	-0.32356	-1.42426	1.18274	-0.00270	8.73732	0.11806	0.00759	0.93883
2.36463	-8.88363	1.70223	-0.32487	-1.42668	1.17451	-0.00264	8.97675	0.11489	0.00782	0.93966
2.42014	-8.93922	1.70657	-0.32630	-1.43300	1.16978	-0.00259	9.27745	0.11180	0.00794	0.94026
2.47709	-8.98240	1.71134	-0.32792	-1.44179	1.16778	-0.00254	9.60780	0.10913	0.00788	0.94168
2.53550	-9.02159	1.71664	-0.32974	-1.45117	1.16642	-0.00249	9.92967	0.10710	0.00767	0.94457
2.59471	-9.06171	1.72248	-0.33172	-1.45993	1.16437	-0.00245	10.21864	0.10574	0.00736	0.94901
2.65604	-9.10663	1.72901	-0.33390	-1.46776	1.16146	-0.00240	10.47140	0.10495	0.00700	0.95491
2.71887	-9.15850	1.73621	-0.33622	-1.47409	1.15824	-0.00236	10.67641	0.10461	0.00667	0.96183
2.78242	-9.21525	1.74398	-0.33862	-1.47925	1.15544	-0.00232	10.84093	0.10460	0.00641	0.96928
2.84819	-9.27708	1.75242	-0.34113	-1.48358	1.15294	-0.00228	10.97906	0.10477	0.00623	0.97732
2.91545	-9.34280	1.76133	-0.34375	-1.48690	1.15036	-0.00225	11.09438	0.10502	0.00612	0.98600
2.98329	-9.41038	1.77044	-0.34643	-1.48934	1.14757	-0.00221	11.19257	0.10529	0.00604	0.99520
3.05344	-9.48474	1.77989	-0.34931	-1.49008	1.14392	-0.00218	11.26122	0.10563	0.00599	1.00505
3.12598	-9.56986	1.78961	-0.35233	-1.48834	1.13901	-0.00215	11.28279	0.10611	0.00597	1.01532
3.19898	-9.66863	1.79927	-0.35542	-1.48298	1.13236	-0.00212	11.23385	0.10679	0.00597	1.02549
3.27439	-9.78559	1.80907	-0.35862	-1.47354	1.12368	-0.00210	11.10650	0.10773	0.00597	1.03550
3.35121	-9.92076	1.81877	-0.36187	-1.45971	1.11298	-0.00208	10.89859	0.10888	0.00594	1.04501
3.43053	-10.07392	1.82850	-0.36518	-1.44183	1.10056	-0.00207	10.62007	0.11021	0.00589	1.05425
3.51124	-10.23956	1.83806	-0.36846	-1.42079	1.08715	-0.00206	10.29161	0.11161	0.00576	1.06326
3.59324	-10.41482	1.84746	-0.37167	-1.39741	1.07331	-0.00206	9.93144	0.11299	0.00559	1.07210
3.67782	-10.59795	1.85683	-0.37486	-1.37207	1.05924	-0.00206	9.54894	0.11432	0.00532	1.08136
3.76506	-10.78565	1.86619	-0.37786	-1.34604	1.04582	-0.00208	9.17303	0.11545	0.00498	1.09094
3.85356	-10.97477	1.87539	-0.38081	-1.31917	1.03253	-0.00209	8.79223	0.11649	0.00457	1.10110
3.94477	-11.16653	1.88450	-0.38340	-1.29241	1.01979	-0.00211	8.43408	0.11724	0.00410	1.11116
4.03714	-11.35715	1.89352	-0.38593	-1.26548	1.00729	-0.00214	8.07977	0.11788	0.00362	1.12123
4.13223	-11.54395	1.90237	-0.38809	-1.24007	0.99573	-0.00216	7.76303	0.11823	0.00313	1.13090
4.23012	-11.73034	1.91131	-0.39000	-1.21544	0.98477	-0.00218	7.46800	0.11837	0.00269	1.13973
4.32900	-11.90681	1.92004	-0.39177	-1.19270	0.97501	-0.00220	7.19473	0.11849	0.00230	1.14787
4.43066	-12.07685	1.92872	-0.39290	-1.17320	0.96729	-0.00222	6.97611	0.11839	0.00200	1.15467
4.53515	-12.24292	1.93761	-0.39398	-1.15474	0.96036	-0.00224	6.75901	0.11846	0.00185	1.16069
4.64253	-12.40116	1.94626	-0.39463	-1.13883	0.95445	-0.00226	6.57192	0.11858	0.00180	1.16598
4.75059	-12.55416	1.95477	-0.39457	-1.12582	0.94966	-0.00226	6.42561	0.11867	0.00191	1.16977
4.86145	-12.70493	1.96344	-0.39461	-1.11298	0.94463	-0.00227	6.26183	0.11912	0.00221	1.17297
4.97760	-12.85099	1.97175	-0.39405	-1.10265	0.94012	-0.00227	6.14140	0.11937	0.00261	1.17545
5.09424	-12.99110	1.97981	-0.39276	-1.09521	0.93635	-0.00226	6.07059	0.11940	0.00318	1.17648
5.21376	-13.13007	1.98819	-0.39166	-1.08743	0.93180	-0.00225	5.97675	0.11982	0.00388	1.17734
5.33618	-13.26187	1.99597	-0.39004	-1.08171	0.92728	-0.00224	5.91881	0.12017	0.00459	1.17817
5.46150	-13.38850	2.00343	-0.38743	-1.07919	0.92339	-0.00223	5.92101	0.12031	0.00537	1.17813
5.58971	-13.51540	2.01157	-0.38501	-1.07629	0.91873	-0.00221	5.89900	0.12092	0.00618	1.17852
5.72082	-13.63852	2.01952	-0.38262	-1.07362	0.91373	-0.00219	5.87449	0.12169	0.00685	1.18000
5.85823	-13.75534	2.02653	-0.37892	-1.07480	0.90993	-0.00216	5.92550	0.12213	0.00741	1.18137
5.99520	-13.87017	2.03413	-0.37514	-1.07644	0.90600	-0.00214	5.96973	0.12291	0.00789	1.18320
6.13497	-13.98920	2.04272	-0.37191	-1.07636	0.90112	-0.00211	5.97039	0.12409	0.00820	1.18639
6.28141	-14.10144	2.05005	-0.36809	-1.07807	0.89741	-0.00209	6.01153	0.12486	0.00832	1.19031
6.42674	-14.20122	2.05616	-0.36334	-1.08293	0.89551	-0.00207	6.10785	0.12534	0.00827	1.19426
6.57895	-14.31046	2.06399	-0.35874	-1.08669	0.89291	-0.00204	6.17209	0.12621	0.00807	1.19945
6.73401	-14.42856	2.07324	-0.35486	-1.08789	0.88921	-0.00202	6.18579	0.12735	0.00775	1.20575
6.89180	-14.53022	2.07987	-0.35044	-1.09119	0.88784	-0.00200	6.25416	0.12778	0.00741	1.21191
7.05716	-14.62236	2.08513	-0.34488	-1.09745	0.88879	-0.00199	6.38174	0.12778	0.00696	1.21821
7.22022	-14.72329	2.09224	-0.33982	-1.10159	0.88871	-0.00197	6.46295	0.12813	0.00641	1.22499
7.39098	-14.84353	2.10210	-0.33538	-1.10274	0.88686	-0.00196	6.48503	0.12891	0.00581	1.23242
7.56430	-14.95055	2.11016	-0.33113	-1.10472	0.88599	-0.00194	6.52867	0.12935	0.00528	1.23925
7.73994	-15.02218	2.11379	-0.32566	-1.11237	0.88928	-0.00193	6.68076	0.12898	0.00477	1.24518
7.92393	-15.10640	2.11964	-0.32007	-1.11926	0.89205	-0.00192	6.81152	0.12889	0.00415	1.25137
8.11030	-15.20561	2.12808	-0.31492	-1.12400	0.89335	-0.00190	6.89698	0.12916	0.00352	1.25746
8.29876	-15.32774	2.13990	-0.31069	-1.12496	0.89208	-0.00189	6.91136	0.12990	0.00292	1.26331
8.49618	-15.42108	2.14683	-0.30623	-1.12865	0.89298	-0.00187	6.98193	0.13010	0.00248	1.26828
8.69565	-15.47581	2.14858	-0.30065	-1.13759	0.89771	-0.00186	7.14419	0.12974	0.00207	1.27277
8.90472	-15.55606	2.15442	-0.29511	-1.14438	0.90078	-0.00185	7.25922	0.12985	0.00159	1.27766
9.11577	-15.64932	2.16234	-0.28984	-1.14939	0.90262	-0.00184	7.33760	0.13023	0.00114	1.28252
9.32836	-15.77766	2.17579	-0.28521	-1.15032	0.90146	-0.00182	7.33865	0.13117	0.00070	1.28751
9.54198	-15.89489	2.18676	-0.28136	-1.15043	0.89998	-0.00181	7.33374	0.13193	0.00038	1.29217
9.76563	-15.94406	2.18651	-0.27654	-1.15727	0.90372	-0.00180	7.45025	0.13178	0.00017	1.29677
10.00000	-16.00335	2.18805	-0.27107	-1.16425	0.90747	-0.00179	7.55938	0.13184	-0.00010	1.30224

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Median stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 6 - 15 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.51019	3.39003	-0.04489	-1.73978	1.06334	-0.00099	1.42552	0.43149	-0.01211	0.30108
PGV	23.89365	1.98223	0.01094	-6.59924	2.23752	0.00234	53.92664	0.16186	-0.05564	0.72099
PGA	0.31115	1.46401	-0.03816	-2.27331	0.87928	-0.00289	3.38733	0.50531	-0.02959	0.78973
0.01000	1.15470	1.49527	-0.03180	-2.45155	0.86510	-0.00262	4.16877	0.48859	-0.00987	0.76782
0.01024	1.17946	1.49824	-0.03077	-2.45784	0.85977	-0.00261	4.17530	0.48949	-0.00998	0.76956
0.01048	1.20461	1.50116	-0.02976	-2.46415	0.85437	-0.00259	4.18109	0.49040	-0.01010	0.77135
0.01072	1.22677	1.50400	-0.02874	-2.46981	0.84877	-0.00257	4.18232	0.49143	-0.01021	0.77307
0.01097	1.24577	1.50677	-0.02773	-2.47480	0.84299	-0.00255	4.17912	0.49256	-0.01031	0.77461
0.01123	1.26815	1.50957	-0.02673	-2.48042	0.83726	-0.00253	4.17968	0.49358	-0.01038	0.77602
0.01150	1.30267	1.51250	-0.02574	-2.48834	0.83185	-0.00251	4.19455	0.49422	-0.01047	0.77752
0.01177	1.34772	1.51556	-0.02473	-2.49826	0.82666	-0.00249	4.22148	0.49453	-0.01059	0.77916
0.01205	1.39006	1.51860	-0.02370	-2.50760	0.82130	-0.00246	4.24438	0.49496	-0.01073	0.78086
0.01233	1.42111	1.52145	-0.02268	-2.51466	0.81546	-0.00245	4.25309	0.49577	-0.01085	0.78246
0.01262	1.44645	1.52414	-0.02170	-2.52051	0.80924	-0.00243	4.25440	0.49677	-0.01093	0.78380
0.01292	1.47782	1.52683	-0.02076	-2.52745	0.80313	-0.00241	4.26238	0.49756	-0.01097	0.78487
0.01322	1.51835	1.52960	-0.01986	-2.53612	0.79744	-0.00238	4.28082	0.49806	-0.01100	0.78581
0.01353	1.55770	1.53234	-0.01894	-2.54453	0.79166	-0.00236	4.29727	0.49861	-0.01102	0.78678
0.01385	1.58489	1.53496	-0.01794	-2.55054	0.78508	-0.00234	4.29856	0.49959	-0.01107	0.78787
0.01417	1.59853	1.53749	-0.01684	-2.55388	0.77756	-0.00233	4.28320	0.50106	-0.01111	0.78899
0.01451	1.60335	1.54001	-0.01566	-2.55551	0.76951	-0.00231	4.25707	0.50286	-0.01112	0.78990
0.01485	1.60394	1.54252	-0.01443	-2.55629	0.76128	-0.00230	4.22596	0.50481	-0.01108	0.79057
0.01520	1.60086	1.54497	-0.01319	-2.55636	0.75316	-0.00229	4.19072	0.50687	-0.01103	0.79114
0.01556	1.59362	1.54736	-0.01196	-2.55570	0.74546	-0.00228	4.15028	0.50905	-0.01093	0.79145
0.01592	1.59066	1.54980	-0.01078	-2.55598	0.73836	-0.00227	4.11395	0.51108	-0.01075	0.79131
0.01630	1.60674	1.55243	-0.00970	-2.55989	0.73174	-0.00225	4.09886	0.51252	-0.01055	0.79105
0.01668	1.64691	1.55532	-0.00869	-2.56816	0.72506	-0.00223	4.11137	0.51323	-0.01043	0.79148
0.01707	1.69769	1.55832	-0.00772	-2.57818	0.71765	-0.00221	4.13610	0.51366	-0.01046	0.79297
0.01748	1.73704	1.56123	-0.00671	-2.58588	0.70909	-0.00218	4.14718	0.51453	-0.01060	0.79533
0.01789	1.75555	1.56395	-0.00563	-2.58961	0.69948	-0.00216	4.13339	0.51611	-0.01078	0.79802
0.01831	1.75644	1.56649	-0.00448	-2.59004	0.68933	-0.00215	4.09904	0.51827	-0.01089	0.80033
0.01874	1.74233	1.56892	-0.00326	-2.58771	0.67957	-0.00214	4.04817	0.52087	-0.01084	0.80157
0.01918	1.71743	1.57131	-0.00199	-2.58347	0.67079	-0.00213	3.98631	0.52376	-0.01058	0.80148
0.01963	1.68654	1.57364	-0.00070	-2.57809	0.66265	-0.00213	3.91959	0.52681	-0.01016	0.80027
0.02009	1.65380	1.57596	0.00057	-2.57218	0.65444	-0.00214	3.85314	0.52989	-0.00963	0.79833
0.02057	1.62700	1.57841	0.00179	-2.56726	0.64592	-0.00214	3.79494	0.53282	-0.00908	0.79626
0.02105	1.61059	1.58111	0.00296	-2.56431	0.63695	-0.00213	3.74817	0.53548	-0.00861	0.79469
0.02154	1.59821	1.58396	0.00411	-2.56220	0.62762	-0.00213	3.70506	0.53808	-0.00827	0.79396
0.02205	1.57609	1.58667	0.00533	-2.55826	0.61839	-0.00212	3.65229	0.54098	-0.00803	0.79389
0.02257	1.53402	1.58897	0.00665	-2.55040	0.60964	-0.00213	3.58142	0.54441	-0.00779	0.79382
0.02310	1.47900	1.59082	0.00797	-2.53981	0.60145	-0.00214	3.50108	0.54812	-0.00749	0.79335
0.02364	1.43250	1.59241	0.00911	-2.53045	0.59381	-0.00215	3.43284	0.55139	-0.00710	0.79241
0.02420	1.40792	1.59390	0.01003	-2.52491	0.58645	-0.00215	3.38833	0.55383	-0.00668	0.79122
0.02477	1.39545	1.59542	0.01085	-2.52156	0.57915	-0.00215	3.35608	0.55584	-0.00630	0.79036
0.02535	1.36746	1.59700	0.01175	-2.51537	0.57133	-0.00216	3.30829	0.55847	-0.00600	0.79004
0.02595	1.30400	1.59859	0.01283	-2.50258	0.56168	-0.00217	3.22590	0.56253	-0.00570	0.78978
0.02656	1.21488	1.60017	0.01407	-2.48488	0.55009	-0.00219	3.12007	0.56771	-0.00537	0.78928
0.02719	1.12855	1.60194	0.01536	-2.46774	0.53866	-0.00220	3.01919	0.57288	-0.00498	0.78845
0.02783	1.06815	1.60412	0.01663	-2.45578	0.52968	-0.00222	2.94497	0.57702	-0.00449	0.78701
0.02848	1.03919	1.60669	0.01785	-2.45005	0.52335	-0.00223	2.90206	0.57982	-0.00388	0.78479
0.02915	1.02665	1.60937	0.01904	-2.44747	0.51818	-0.00224	2.87625	0.58186	-0.00316	0.78196
0.02984	1.00909	1.61184	0.02022	-2.44369	0.51266	-0.00225	2.84771	0.58401	-0.00239	0.77898
0.03054	0.97373	1.61385	0.02136	-2.43599	0.50564	-0.00226	2.80495	0.58682	-0.00166	0.77639
0.03126	0.91492	1.61518	0.02247	-2.42305	0.49638	-0.00228	2.74363	0.59054	-0.00102	0.77455
0.03199	0.83148	1.61576	0.02354	-2.40470	0.48542	-0.00230	2.66373	0.59517	-0.00050	0.77350
0.03275	0.72574	1.61580	0.02458	-2.38188	0.47426	-0.00233	2.56790	0.60060	-0.00003	0.77277
0.03352	0.60718	1.61567	0.02554	-2.35686	0.46422	-0.00236	2.46449	0.60647	0.00050	0.77161
0.03430	0.49710	1.61568	0.02640	-2.33376	0.45610	-0.00239	2.37177	0.61189	0.00106	0.77016
0.03511	0.41417	1.61606	0.02716	-2.31599	0.45031	-0.00242	2.30500	0.61605	0.00153	0.76919
0.03594	0.35404	1.61699	0.02790	-2.30271	0.44668	-0.00245	2.25976	0.61913	0.00188	0.76892
0.03678	0.29552	1.61840	0.02874	-2.29003	0.44417	-0.00249	2.21766	0.62213	0.00217	0.76907
0.03765	0.21895	1.61998	0.02976	-2.27419	0.44111	-0.00253	2.16117	0.62608	0.00242	0.76960
0.03854	0.11143	1.62121	0.03099	-2.25255	0.43599	-0.00257	2.07896	0.63169	0.00261	0.77057
0.03944	-0.02756	1.62174	0.03244	-2.22481	0.42878	-0.00262	1.97196	0.63903	0.00276	0.77186
0.04037	-0.18350	1.62157	0.03403	-2.19365	0.42097	-0.00266	1.85421	0.64736	0.00289	0.77320
0.04132	-0.33840	1.62077	0.03564	-2.16233	0.41459	-0.00271	1.74141	0.65566	0.00307	0.77427
0.04229	-0.47475	1.61947	0.03704	-2.13402	0.41125	-0.00276	1.64655	0.66288	0.00336	0.77453
0.04329	-0.57707	1.61780	0.03802	-2.11152	0.41134	-0.00282	1.57886	0.66813	0.00379	0.77383
0.04431	-0.64386	1.61583	0.03856	-2.09520	0.41386	-0.00286	1.53700	0.67131	0.00429	0.77250
0.04535	-0.68913	1.61404	0.03887	-2.08309	0.41772	-0.00291	1.50973	0.67329	0.00483	0.77053

0.04642	-0.73349	1.61315	0.03922	-2.07239	0.42220	-0.00295	1.48224	0.67537	0.00555	0.76712
0.04751	-0.79234	1.61345	0.03983	-2.06071	0.42669	-0.00299	1.44429	0.67850	0.00650	0.76188
0.04863	-0.86620	1.61451	0.04073	-2.04744	0.43074	-0.00302	1.39653	0.68267	0.00760	0.75548
0.04977	-0.93976	1.61551	0.04172	-2.03421	0.43421	-0.00306	1.35021	0.68686	0.00862	0.74930
0.05094	-0.99825	1.61574	0.04250	-2.02261	0.43674	-0.00309	1.31550	0.69007	0.00945	0.74421
0.05214	-1.04287	1.61485	0.04293	-2.01188	0.43762	-0.00312	1.29181	0.69227	0.01017	0.73981
0.05337	-1.08683	1.61241	0.04298	-1.99929	0.43621	-0.00314	1.27018	0.69426	0.01085	0.73563
0.05462	-1.13816	1.60839	0.04269	-1.98360	0.43288	-0.00316	1.24457	0.69658	0.01151	0.73164
0.05591	-1.19176	1.60353	0.04212	-1.96657	0.42934	-0.00318	1.21796	0.69898	0.01211	0.72826
0.05722	-1.23796	1.59881	0.04134	-1.95086	0.42774	-0.00320	1.19709	0.70079	0.01249	0.72646
0.05857	-1.27436	1.59496	0.04044	-1.93757	0.42990	-0.00324	1.18467	0.70172	0.01249	0.72743
0.05995	-1.30819	1.59226	0.03956	-1.92567	0.43650	-0.00328	1.17717	0.70215	0.01206	0.73139
0.06136	-1.34890	1.59075	0.03884	-1.91365	0.44649	-0.00334	1.16854	0.70270	0.01138	0.73698
0.06280	-1.40091	1.59011	0.03830	-1.90069	0.45735	-0.00341	1.15425	0.70389	0.01071	0.74242
0.06428	-1.46619	1.58947	0.03776	-1.88590	0.46655	-0.00347	1.13026	0.70610	0.01023	0.74627
0.06579	-1.54676	1.58776	0.03710	-1.86818	0.47321	-0.00353	1.09341	0.70965	0.01002	0.74804
0.06734	-1.64144	1.58451	0.03635	-1.84737	0.47834	-0.00358	1.04458	0.71446	0.01001	0.74832
0.06893	-1.74441	1.57978	0.03551	-1.82448	0.48318	-0.00362	0.98831	0.72017	0.01010	0.74776
0.07055	-1.84615	1.57394	0.03440	-1.80139	0.48821	-0.00366	0.93080	0.72617	0.01036	0.74612
0.07221	-1.93941	1.56744	0.03290	-1.77975	0.49332	-0.00369	0.87679	0.73194	0.01083	0.74309
0.07391	-2.02116	1.56065	0.03110	-1.76032	0.49820	-0.00371	0.82874	0.73713	0.01146	0.73896
0.07565	-2.08678	1.55387	0.02904	-1.74410	0.50287	-0.00372	0.78955	0.74121	0.01213	0.73443
0.07743	-2.13081	1.54726	0.02665	-1.73210	0.50756	-0.00373	0.76185	0.74361	0.01277	0.73009
0.07925	-2.15162	1.54082	0.02392	-1.72449	0.51266	-0.00372	0.74616	0.74407	0.01335	0.72610
0.08111	-2.15280	1.53482	0.02096	-1.72074	0.51906	-0.00372	0.74111	0.74275	0.01385	0.72263
0.08302	-2.14031	1.52932	0.01792	-1.71965	0.52757	-0.00371	0.74422	0.74009	0.01414	0.72063
0.08498	-2.12472	1.52413	0.01498	-1.71899	0.53781	-0.00372	0.75058	0.73696	0.01408	0.72117
0.08697	-2.11717	1.51896	0.01226	-1.71636	0.54816	-0.00372	0.75443	0.73440	0.01366	0.72440
0.08902	-2.12519	1.51363	0.00975	-1.71016	0.55678	-0.00374	0.75140	0.73320	0.01301	0.72947
0.09112	-2.14859	1.50828	0.00733	-1.70061	0.56251	-0.00375	0.74094	0.73352	0.01233	0.73493
0.09326	-2.18323	1.50296	0.00481	-1.68859	0.56464	-0.00375	0.72466	0.73514	0.01181	0.73938
0.09545	-2.22304	1.49751	0.00206	-1.67511	0.56314	-0.00375	0.70533	0.73758	0.01147	0.74279
0.09770	-2.26388	1.49195	-0.00092	-1.66101	0.55905	-0.00374	0.68543	0.74040	0.01120	0.74586
0.10000	-2.30227	1.48677	-0.00396	-1.64747	0.55407	-0.00372	0.66749	0.74312	0.01093	0.74892
0.10235	-2.33649	1.48218	-0.00689	-1.63522	0.54926	-0.00371	0.65272	0.74542	0.01069	0.75171
0.10476	-2.36147	1.47802	-0.00973	-1.62527	0.54539	-0.00369	0.64302	0.74679	0.01051	0.75403
0.10723	-2.37235	1.47425	-0.01258	-1.61868	0.54368	-0.00367	0.64017	0.74671	0.01040	0.75568
0.10975	-2.36791	1.47097	-0.01547	-1.61581	0.54553	-0.00366	0.64486	0.74499	0.01036	0.75675
0.11233	-2.35282	1.46775	-0.01843	-1.61522	0.55143	-0.00365	0.65528	0.74194	0.01030	0.75778
0.11498	-2.33252	1.46427	-0.02143	-1.61548	0.56067	-0.00365	0.66903	0.73808	0.01011	0.75959
0.11768	-2.31003	1.46058	-0.02445	-1.61598	0.57227	-0.00365	0.68489	0.73372	0.00977	0.76225
0.12045	-2.28787	1.45687	-0.02743	-1.61630	0.58562	-0.00366	0.70210	0.72911	0.00929	0.76572
0.12328	-2.27065	1.45313	-0.03028	-1.61552	0.59996	-0.00368	0.71870	0.72465	0.00876	0.76952
0.12619	-2.25953	1.44967	-0.03295	-1.61373	0.61505	-0.00371	0.73399	0.72051	0.00829	0.77299
0.12916	-2.25553	1.44673	-0.03544	-1.61102	0.63083	-0.00374	0.74707	0.71688	0.00800	0.77550
0.13219	-2.26144	1.44433	-0.03779	-1.60690	0.64698	-0.00377	0.75616	0.71403	0.00797	0.77645
0.13531	-2.27807	1.44275	-0.04003	-1.60148	0.66275	-0.00381	0.76075	0.71211	0.00827	0.77531
0.13849	-2.30268	1.44221	-0.04217	-1.59554	0.67728	-0.00384	0.76191	0.71098	0.00885	0.77234
0.14175	-2.33898	1.44201	-0.04411	-1.58778	0.68945	-0.00388	0.75689	0.71101	0.00948	0.76916
0.14508	-2.38794	1.44174	-0.04581	-1.57771	0.69916	-0.00390	0.74454	0.71233	0.01004	0.76656
0.14850	-2.44151	1.44170	-0.04746	-1.56712	0.70633	-0.00392	0.72919	0.71430	0.01057	0.76418
0.15199	-2.49409	1.44136	-0.04916	-1.55644	0.71193	-0.00393	0.71381	0.71634	0.01094	0.76302
0.15557	-2.54013	1.44037	-0.05108	-1.54638	0.71614	-0.00394	0.70063	0.71797	0.01112	0.76332
0.15923	-2.58209	1.43864	-0.05327	-1.53646	0.71763	-0.00393	0.68816	0.71945	0.01123	0.76424
0.16298	-2.62456	1.43626	-0.05560	-1.52577	0.71655	-0.00391	0.67497	0.72105	0.01135	0.76542
0.16681	-2.66310	1.43381	-0.05801	-1.51581	0.71492	-0.00390	0.66383	0.72226	0.01155	0.76644
0.17074	-2.70039	1.43137	-0.06037	-1.50621	0.71256	-0.00388	0.65336	0.72334	0.01173	0.76779
0.17475	-2.73956	1.42898	-0.06250	-1.49645	0.70951	-0.00386	0.64219	0.72454	0.01183	0.76987
0.17887	-2.77152	1.42732	-0.06456	-1.48897	0.70719	-0.00385	0.63538	0.72493	0.01196	0.77175
0.18307	-2.79284	1.42636	-0.06679	-1.48452	0.70538	-0.00383	0.63374	0.72430	0.01218	0.77311
0.18738	-2.81339	1.42591	-0.06909	-1.48101	0.70318	-0.00380	0.63284	0.72351	0.01262	0.77293
0.19179	-2.82679	1.42606	-0.07160	-1.47989	0.70140	-0.00378	0.63592	0.72185	0.01326	0.77123
0.19631	-2.85394	1.42492	-0.07390	-1.47517	0.70029	-0.00377	0.63240	0.72110	0.01394	0.76901
0.20092	-2.88576	1.42268	-0.07633	-1.46882	0.69865	-0.00375	0.62592	0.72059	0.01477	0.76559
0.20565	-2.92387	1.41897	-0.07883	-1.46001	0.69492	-0.00374	0.61601	0.72045	0.01558	0.76217
0.21049	-2.94205	1.41600	-0.08214	-1.45631	0.69112	-0.00371	0.61557	0.71828	0.01647	0.75799
0.21544	-2.94430	1.41387	-0.08601	-1.45714	0.68816	-0.00367	0.62322	0.71434	0.01745	0.75310
0.22051	-2.92819	1.41260	-0.09043	-1.46298	0.68650	-0.00363	0.64082	0.70832	0.01866	0.74665
0.22570	-2.90433	1.41028	-0.09516	-1.46965	0.68721	-0.00358	0.66322	0.70104	0.01967	0.74146
0.23101	-2.88244	1.40766	-0.09998	-1.47592	0.68782	-0.00354	0.68620	0.69361	0.02056	0.73711
0.23645	-2.87631	1.40431	-0.10463	-1.47861	0.68800	-0.00350	0.70279	0.68721	0.02131	0.73355
0.24201	-2.87995	1.39947	-0.10919	-1.47816	0.68538	-0.00346	0.71450	0.68140	0.02182	0.73154
0.24771	-2.87620	1.39599	-0.11386	-1.48082	0.68308	-0.00341	0.73253	0.67468	0.02231	0.72975
0.25354	-2.88193	1.39141	-0.11853	-1.48089	0.67882	-0.00336	0.74556	0.66857	0.02250	0.72975
0.25950	-2.88456	1.38869	-0.12319	-1.48355	0.67748	-0.00332	0.76384	0.66183	0.02282	0.72881
0.26561	-2.90066	1.38623	-0.12770	-1.48408	0.67570	-0.00328	0.77568	0.65616	0.02292	0.72901
0.27186	-2.92786	1.38256	-0.13221	-1.48139	0.67144	-0.00325	0.78085	0.65130	0.02253	0.73227
0.27826	-2.96335	1.37913	-0.13654	-1.47734	0.66703	-0.00321	0.78287	0.64692	0.02195	0.73660
0.28480	-2.99625	1.37459	-0.14119	-1.47304	0.65880	-0.00316	0.78475	0.64230	0.02082	0.74456
0.29150	-3.03525	1.37220	-0.14546	-1.46992	0.65425	-0.00312	0.78647	0.63794	0.01992	0.75073
0.29836	-3.08510	1.37079	-0.14949	-1.46577	0.65196	-0.00309	0.78425	0.63423	0.01909	0.75611

0.30539	-3.13635	1.37087	-0.15356	-1.46301	0.65290	-0.00308	0.78396	0.63036	0.01831	0.76095
0.31257	-3.19027	1.37100	-0.15760	-1.45995	0.65414	-0.00306	0.78345	0.62637	0.01732	0.76687
0.31993	-3.24276	1.37152	-0.16177	-1.45789	0.65454	-0.00304	0.78502	0.62203	0.01616	0.77369
0.32745	-3.29667	1.37280	-0.16584	-1.45656	0.65729	-0.00303	0.78817	0.61738	0.01512	0.77942
0.33517	-3.34676	1.37482	-0.17011	-1.45706	0.66083	-0.00301	0.79556	0.61211	0.01416	0.78442
0.34304	-3.39338	1.37752	-0.17463	-1.45941	0.66362	-0.00298	0.80623	0.60634	0.01359	0.78670
0.35112	-3.43871	1.38146	-0.17937	-1.46346	0.67011	-0.00296	0.82088	0.60011	0.01322	0.78747
0.35938	-3.49136	1.38514	-0.18408	-1.46603	0.67556	-0.00294	0.83179	0.59430	0.01303	0.78681
0.36784	-3.54460	1.38943	-0.18899	-1.46930	0.68136	-0.00292	0.84439	0.58830	0.01296	0.78512
0.37649	-3.60435	1.39382	-0.19390	-1.47148	0.68895	-0.00291	0.85509	0.58245	0.01294	0.78295
0.38536	-3.66652	1.39815	-0.19876	-1.47330	0.69793	-0.00290	0.86629	0.57640	0.01310	0.77922
0.39442	-3.72188	1.40260	-0.20379	-1.47661	0.70881	-0.00290	0.88469	0.56937	0.01336	0.77489
0.40370	-3.77001	1.40819	-0.20891	-1.48254	0.72315	-0.00290	0.91232	0.56136	0.01380	0.76930
0.41321	-3.81496	1.41329	-0.21417	-1.48873	0.73645	-0.00290	0.94473	0.55271	0.01423	0.76387
0.42292	-3.86012	1.41820	-0.21934	-1.49470	0.75136	-0.00290	0.98091	0.54365	0.01466	0.75822
0.43288	-3.90008	1.42341	-0.22473	-1.50190	0.76856	-0.00291	1.02615	0.53371	0.01521	0.75185
0.44307	-3.94281	1.42785	-0.23011	-1.50772	0.78233	-0.00291	1.07339	0.52361	0.01572	0.74580
0.45349	-3.98487	1.43217	-0.23557	-1.51341	0.79583	-0.00291	1.12625	0.51318	0.01639	0.73874
0.46417	-4.02673	1.43623	-0.24108	-1.51880	0.80841	-0.00291	1.18488	0.50239	0.01719	0.73092
0.47508	-4.06793	1.44005	-0.24655	-1.52393	0.82019	-0.00290	1.25094	0.49110	0.01799	0.72327
0.48626	-4.10527	1.44393	-0.25206	-1.52979	0.83139	-0.00289	1.32672	0.47939	0.01884	0.71553
0.49771	-4.13832	1.44757	-0.25760	-1.53625	0.84187	-0.00288	1.41208	0.46734	0.01969	0.70797
0.50942	-4.17006	1.45046	-0.26300	-1.54214	0.85109	-0.00286	1.50592	0.45494	0.02033	0.70211
0.52140	-4.19557	1.45404	-0.26830	-1.54987	0.86142	-0.00284	1.61549	0.44213	0.02095	0.69650
0.53367	-4.21853	1.45815	-0.27343	-1.55853	0.87249	-0.00282	1.73778	0.42925	0.02164	0.69050
0.54624	-4.24121	1.46178	-0.27846	-1.56671	0.88211	-0.00280	1.86888	0.41645	0.02209	0.68627
0.55910	-4.26304	1.46537	-0.28336	-1.57492	0.89183	-0.00278	2.01034	0.40379	0.02247	0.68250
0.57225	-4.28429	1.46937	-0.28803	-1.58357	0.90221	-0.00276	2.16413	0.39124	0.02280	0.67899
0.58569	-4.30634	1.47362	-0.29246	-1.59225	0.91208	-0.00274	2.32898	0.37886	0.02292	0.67696
0.59948	-4.32877	1.47828	-0.29672	-1.60118	0.92269	-0.00272	2.50425	0.36684	0.02308	0.67479
0.61357	-4.35297	1.48286	-0.30087	-1.60961	0.93301	-0.00271	2.68463	0.35535	0.02322	0.67304
0.62802	-4.38094	1.48751	-0.30487	-1.61733	0.94294	-0.00269	2.86872	0.34439	0.02334	0.67164
0.64280	-4.41438	1.49263	-0.30864	-1.62435	0.95249	-0.00268	3.05536	0.33397	0.02347	0.67034
0.65794	-4.45415	1.49838	-0.31216	-1.63065	0.96164	-0.00266	3.24361	0.32407	0.02364	0.66901
0.67340	-4.50056	1.50444	-0.31547	-1.63583	0.97002	-0.00265	3.42884	0.31479	0.02384	0.66781
0.68927	-4.55354	1.51045	-0.31867	-1.63963	0.97739	-0.00264	3.60864	0.30610	0.02406	0.66691
0.70547	-4.61208	1.51635	-0.32176	-1.64214	0.98374	-0.00262	3.78149	0.29800	0.02428	0.66631
0.72207	-4.67616	1.52251	-0.32470	-1.64379	0.98941	-0.00261	3.95053	0.29034	0.02451	0.66576
0.73910	-4.74705	1.52926	-0.32742	-1.64461	0.99447	-0.00260	4.11517	0.28309	0.02475	0.66492
0.75649	-4.82418	1.53659	-0.32992	-1.64465	0.99893	-0.00259	4.27452	0.27628	0.02500	0.66350
0.77429	-4.90734	1.54416	-0.33227	-1.64368	1.00260	-0.00258	4.42589	0.26988	0.02528	0.66121
0.79246	-4.99555	1.55159	-0.33455	-1.64151	1.00528	-0.00257	4.56580	0.26395	0.02558	0.65787
0.81116	-5.08968	1.55885	-0.33680	-1.63804	1.00696	-0.00257	4.69392	0.25841	0.02591	0.65362
0.83022	-5.18868	1.56613	-0.33893	-1.63357	1.00785	-0.00256	4.81040	0.25326	0.02624	0.64882
0.84976	-5.29370	1.57383	-0.34091	-1.62830	1.00819	-0.00255	4.91756	0.24843	0.02655	0.64374
0.86972	-5.40417	1.58210	-0.34268	-1.62246	1.00817	-0.00254	5.01632	0.24389	0.02684	0.63881
0.89023	-5.51981	1.59089	-0.34431	-1.61610	1.00783	-0.00254	5.10802	0.23960	0.02710	0.63451
0.91116	-5.63848	1.59981	-0.34584	-1.60922	1.00710	-0.00253	5.19105	0.23558	0.02730	0.63139
0.93257	-5.75926	1.60857	-0.34735	-1.60179	1.00591	-0.00253	5.26504	0.23181	0.02745	0.62954
0.95456	-5.88206	1.61711	-0.34886	-1.59379	1.00425	-0.00252	5.33002	0.22827	0.02755	0.62894
0.97704	-6.00629	1.62555	-0.35034	-1.58544	1.00227	-0.00252	5.38730	0.22495	0.02761	0.62952
1.00000	-6.13177	1.63420	-0.35171	-1.57707	1.00025	-0.00251	5.44038	0.22181	0.02760	0.63117
1.02354	-6.25903	1.64335	-0.35293	-1.56888	0.99839	-0.00251	5.49222	0.21879	0.02754	0.63378
1.04767	-6.38802	1.65311	-0.35397	-1.56096	0.99676	-0.00250	5.54393	0.21586	0.02743	0.63721
1.07227	-6.51807	1.66328	-0.35486	-1.55323	0.99529	-0.00250	5.59412	0.21306	0.02727	0.64127
1.09745	-6.64923	1.67368	-0.35565	-1.54552	0.99381	-0.00250	5.64146	0.21039	0.02708	0.64585
1.12334	-6.78188	1.68405	-0.35639	-1.53758	0.99213	-0.00249	5.68342	0.20787	0.02687	0.65087
1.14982	-6.91540	1.69418	-0.35709	-1.52928	0.99012	-0.00249	5.71757	0.20552	0.02666	0.65620
1.17675	-7.04887	1.70402	-0.35776	-1.52072	0.98782	-0.00249	5.74413	0.20336	0.02645	0.66166
1.20453	-7.18437	1.71388	-0.35836	-1.51192	0.98532	-0.00249	5.76493	0.20133	0.02624	0.66717
1.23289	-7.32076	1.72390	-0.35884	-1.50314	0.98279	-0.00248	5.78178	0.19944	0.02602	0.67251
1.26183	-7.45821	1.73427	-0.35915	-1.49452	0.98039	-0.00248	5.79654	0.19766	0.02579	0.67764
1.29149	-7.59742	1.74516	-0.35927	-1.48613	0.97819	-0.00248	5.81068	0.19597	0.02554	0.68265
1.32188	-7.73818	1.75657	-0.35919	-1.47800	0.97621	-0.00248	5.82463	0.19435	0.02528	0.68763
1.35300	-7.88006	1.76838	-0.35896	-1.47010	0.97443	-0.00248	5.83798	0.19283	0.02499	0.69268
1.38485	-8.02267	1.78039	-0.35859	-1.46231	0.97273	-0.00248	5.84921	0.19141	0.02470	0.69791
1.41743	-8.16564	1.79241	-0.35814	-1.45452	0.97100	-0.00248	5.85644	0.19012	0.02440	0.70348
1.45075	-8.30864	1.80427	-0.35762	-1.44664	0.96914	-0.00248	5.85817	0.18897	0.02409	0.70945
1.48500	-8.45233	1.81598	-0.35706	-1.43861	0.96712	-0.00247	5.85377	0.18798	0.02378	0.71585
1.51999	-8.59575	1.82749	-0.35645	-1.43049	0.96497	-0.00247	5.84327	0.18716	0.02346	0.72264
1.55569	-8.73891	1.83887	-0.35576	-1.42238	0.96276	-0.00247	5.82757	0.18649	0.02313	0.72982
1.59236	-8.88281	1.85036	-0.35497	-1.41434	0.96060	-0.00247	5.80792	0.18597	0.02277	0.73742
1.62973	-9.02654	1.86200	-0.35405	-1.40654	0.95860	-0.00247	5.78600	0.18558	0.02239	0.74538
1.66806	-9.17115	1.87400	-0.35297	-1.39902	0.95682	-0.00247	5.76279	0.18532	0.02198	0.75374
1.70736	-9.31664	1.88640	-0.35173	-1.39181	0.95532	-0.00247	5.73912	0.18516	0.02153	0.76249
1.74764	-9.46290	1.89922	-0.35032	-1.38495	0.95411	-0.00247	5.71545	0.18510	0.02104	0.77164
1.78859	-9.60857	1.91230	-0.34877	-1.37847	0.95319	-0.00247	5.69210	0.18513	0.02053	0.78108
1.83083	-9.75558	1.92574	-0.34706	-1.37225	0.95252	-0.00247	5.66843	0.18526	0.01999	0.79095
1.87371	-9.90136	1.93923	-0.34526	-1.36631	0.95204	-0.00247	5.64427	0.18546	0.01944	0.80104
1.91791	-10.04790	1.95286	-0.34334	-1.36051	0.95169	-0.00248	5.61860	0.18577	0.01888	0.81144
1.96309	-10.19376	1.96640	-0.34136	-1.35485	0.95141	-0.00248	5.59112	0.18616	0.01832	0.82193

2.00924	-10.33872	1.97978	-0.33931	-1.34928	0.95117	-0.00248	5.56139	0.18664	0.01777	0.83236
2.05634	-10.48261	1.99295	-0.33722	-1.34378	0.95095	-0.00248	5.52932	0.18720	0.01724	0.84259
2.10482	-10.62665	2.00600	-0.33506	-1.33830	0.95072	-0.00248	5.49471	0.18785	0.01672	0.85251
2.15424	-10.76957	2.01883	-0.33284	-1.33290	0.95052	-0.00248	5.45810	0.18857	0.01623	0.86185
2.20507	-10.91278	2.03162	-0.33054	-1.32755	0.95035	-0.00248	5.41966	0.18936	0.01575	0.87058
2.25683	-11.05501	2.04430	-0.32815	-1.32233	0.95025	-0.00248	5.38041	0.19020	0.01528	0.87866
2.31000	-11.19766	2.05705	-0.32565	-1.31725	0.95026	-0.00248	5.34077	0.19108	0.01483	0.88627
2.36463	-11.34083	2.06993	-0.32302	-1.31231	0.95041	-0.00248	5.30139	0.19199	0.01439	0.89351
2.42014	-11.48310	2.08285	-0.32028	-1.30762	0.95074	-0.00248	5.26320	0.19291	0.01395	0.90044
2.47709	-11.62588	2.09597	-0.31740	-1.30315	0.95126	-0.00248	5.22620	0.19384	0.01352	0.90729
2.53550	-11.76922	2.10930	-0.31437	-1.29887	0.95196	-0.00248	5.19038	0.19478	0.01307	0.91423
2.59471	-11.91156	2.12269	-0.31125	-1.29482	0.95282	-0.00248	5.15610	0.19571	0.01263	0.92133
2.65604	-12.05580	2.13639	-0.30794	-1.29096	0.95387	-0.00248	5.12300	0.19665	0.01217	0.92881
2.71887	-12.20030	2.15025	-0.30452	-1.28725	0.95506	-0.00248	5.09104	0.19758	0.01172	0.93663
2.78242	-12.34326	2.16406	-0.30103	-1.28375	0.95638	-0.00248	5.06059	0.19850	0.01126	0.94475
2.84819	-12.48762	2.17805	-0.29737	-1.28041	0.95783	-0.00248	5.03102	0.19942	0.01080	0.95346
2.91545	-12.63191	2.19208	-0.29366	-1.27711	0.95933	-0.00248	5.00170	0.20033	0.01035	0.96267
2.98329	-12.77360	2.20584	-0.28988	-1.27408	0.96091	-0.00248	4.97393	0.20122	0.00990	0.97218
3.05344	-12.91659	2.21970	-0.28603	-1.27097	0.96248	-0.00248	4.94541	0.20212	0.00946	0.98196
3.12598	-13.06044	2.23358	-0.28203	-1.26801	0.96414	-0.00247	4.91726	0.20303	0.00903	0.99186
3.19898	-13.20135	2.24707	-0.27808	-1.26506	0.96571	-0.00247	4.88901	0.20392	0.00863	1.00129
3.27439	-13.34303	2.26057	-0.27400	-1.26223	0.96733	-0.00247	4.86077	0.20483	0.00823	1.01028
3.35121	-13.48324	2.27378	-0.26994	-1.25935	0.96886	-0.00247	4.83208	0.20572	0.00786	1.01851
3.43053	-13.62414	2.28699	-0.26574	-1.25661	0.97044	-0.00247	4.80340	0.20664	0.00750	1.02636
3.51124	-13.76338	2.29989	-0.26160	-1.25378	0.97190	-0.00247	4.77415	0.20753	0.00716	1.03391
3.59324	-13.90077	2.31253	-0.25732	-1.25123	0.97342	-0.00246	4.74614	0.20843	0.00683	1.04158
3.67782	-14.03900	2.32515	-0.25314	-1.24840	0.97478	-0.00246	4.71625	0.20930	0.00651	1.04969
3.76506	-14.17655	2.33759	-0.24865	-1.24607	0.97635	-0.00246	4.68889	0.21022	0.00618	1.05881
3.85356	-14.31389	2.35002	-0.24443	-1.24325	0.97761	-0.00245	4.65881	0.21107	0.00589	1.06848
3.94477	-14.44917	2.36208	-0.23984	-1.24117	0.97921	-0.00245	4.63305	0.21196	0.00557	1.07896
4.03714	-14.58500	2.37432	-0.23547	-1.23863	0.98051	-0.00245	4.60453	0.21280	0.00529	1.08950
4.13223	-14.71882	2.38617	-0.23096	-1.23646	0.98197	-0.00244	4.57888	0.21362	0.00500	1.10020
4.23012	-14.85341	2.39817	-0.22620	-1.23463	0.98358	-0.00244	4.55475	0.21447	0.00472	1.11073
4.32900	-14.98736	2.41015	-0.22186	-1.23211	0.98479	-0.00243	4.52773	0.21521	0.00447	1.12030
4.43066	-15.11729	2.42155	-0.21694	-1.23088	0.98660	-0.00243	4.50834	0.21602	0.00419	1.12954
4.53515	-15.25153	2.43364	-0.21227	-1.22890	0.98803	-0.00242	4.48459	0.21676	0.00395	1.13795
4.64253	-15.38382	2.44536	-0.20769	-1.22695	0.98946	-0.00242	4.46234	0.21743	0.00372	1.14574
4.75059	-15.51057	2.45651	-0.20253	-1.22637	0.99147	-0.00241	4.44774	0.21819	0.00345	1.15313
4.86145	-15.64311	2.46857	-0.19796	-1.22437	0.99280	-0.00241	4.42580	0.21881	0.00325	1.15963
4.97760	-15.77353	2.48006	-0.19316	-1.22299	0.99443	-0.00240	4.40832	0.21943	0.00302	1.16594
5.09424	-15.89864	2.49110	-0.18776	-1.22300	0.99665	-0.00239	4.39826	0.22014	0.00276	1.17204
5.21376	-16.03095	2.50323	-0.18313	-1.22119	0.99799	-0.00238	4.37909	0.22066	0.00257	1.17731
5.33618	-16.15749	2.51439	-0.17847	-1.21994	0.99954	-0.00238	4.36435	0.22115	0.00237	1.18244
5.46150	-16.27840	2.52490	-0.17284	-1.22072	1.00203	-0.00237	4.35980	0.22183	0.00209	1.18791
5.58971	-16.40794	2.53678	-0.16795	-1.21963	1.00360	-0.00236	4.34603	0.22230	0.00189	1.19282
5.72082	-16.53619	2.54830	-0.16367	-1.21771	1.00474	-0.00235	4.32979	0.22260	0.00173	1.19755
5.85823	-16.65453	2.55829	-0.15791	-1.21902	1.00737	-0.00235	4.32928	0.22325	0.00144	1.20340
5.99520	-16.77649	2.56922	-0.15246	-1.21949	1.00956	-0.00234	4.32471	0.22378	0.00120	1.20901
6.13497	-16.90657	2.58125	-0.14826	-1.21734	1.01047	-0.00233	4.30904	0.22393	0.00107	1.21405
6.28141	-17.02662	2.59145	-0.14350	-1.21704	1.01219	-0.00232	4.30286	0.22426	0.00087	1.21986
6.42674	-17.13531	2.60049	-0.13754	-1.21946	1.01510	-0.00231	4.30849	0.22496	0.00057	1.22636
6.57895	-17.25850	2.61158	-0.13225	-1.21966	1.01698	-0.00230	4.30429	0.22533	0.00035	1.23255
6.73401	-17.38927	2.62361	-0.12841	-1.21702	1.01749	-0.00229	4.28993	0.22519	0.00027	1.23808
6.89180	-17.50033	2.63262	-0.12370	-1.21746	1.01931	-0.00228	4.28885	0.22550	0.00006	1.24452
7.05716	-17.60576	2.64096	-0.11737	-1.22088	1.02252	-0.00227	4.29882	0.22631	-0.00027	1.25196
7.22022	-17.72024	2.65098	-0.11212	-1.22176	1.02448	-0.00226	4.29938	0.22665	-0.00049	1.25840
7.39098	-17.85033	2.66295	-0.10833	-1.21919	1.02483	-0.00225	4.28891	0.22630	-0.00056	1.26388
7.56430	-17.96541	2.67241	-0.10463	-1.21781	1.02561	-0.00224	4.28413	0.22611	-0.00066	1.26937
7.73994	-18.05591	2.67865	-0.09853	-1.22216	1.02893	-0.00223	4.29639	0.22711	-0.00101	1.27602
7.92393	-18.16138	2.68709	-0.09269	-1.22482	1.03149	-0.00222	4.30355	0.22772	-0.00130	1.28190
8.11030	-18.27838	2.69729	-0.08796	-1.22482	1.03280	-0.00221	4.30370	0.22773	-0.00146	1.28657
8.29876	-18.40801	2.70908	-0.08516	-1.22079	1.03218	-0.00220	4.29591	0.22670	-0.00143	1.28970
8.49618	-18.51166	2.71663	-0.08124	-1.22089	1.03336	-0.00219	4.29810	0.22667	-0.00157	1.29383
8.69565	-18.59121	2.72121	-0.07478	-1.22687	1.03716	-0.00218	4.31145	0.22815	-0.00199	1.29939
8.90472	-18.69254	2.72893	-0.06913	-1.22971	1.03955	-0.00217	4.31965	0.22874	-0.00227	1.30401
9.11577	-18.80167	2.73786	-0.06427	-1.23065	1.04101	-0.00215	4.32432	0.22882	-0.00245	1.30801
9.32836	-18.93243	2.74981	-0.06144	-1.22657	1.04009	-0.00214	4.32387	0.22740	-0.00240	1.31058
9.54198	-19.04609	2.75888	-0.05926	-1.22307	1.03932	-0.00213	4.32831	0.22595	-0.00235	1.31343
9.76563	-19.11358	2.76138	-0.05351	-1.22923	1.04295	-0.00212	4.33389	0.22787	-0.00276	1.31961
10.00000	-19.19209	2.76572	-0.04718	-1.23521	1.04653	-0.00211	4.34420	0.22943	-0.00316	1.32635

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Median stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 15 - 30 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.73800	3.39055	-0.03949	-1.69338	1.01730	-0.00097	1.19212	0.45257	-0.01212	0.29954
PGV	5.91937	1.78243	-0.04135	-3.09082	1.49196	-0.00104	12.27803	0.28108	-0.02446	0.52011
PGA	1.51856	1.50715	-0.05863	-2.56702	0.86226	-0.00166	4.41591	0.48455	-0.02421	0.72235
0.01000	2.39920	1.52984	-0.05416	-2.74146	0.85734	-0.00145	5.38541	0.46718	-0.00614	0.70868
0.01024	2.42861	1.53258	-0.05332	-2.74824	0.85213	-0.00143	5.39960	0.46793	-0.00626	0.71006
0.01048	2.46361	1.53534	-0.05248	-2.75607	0.84711	-0.00141	5.41995	0.46853	-0.00640	0.71154
0.01072	2.50257	1.53811	-0.05164	-2.76460	0.84211	-0.00139	5.44435	0.46904	-0.00656	0.71313
0.01097	2.54318	1.54087	-0.05079	-2.77341	0.83707	-0.00137	5.46961	0.46953	-0.00674	0.71479
0.01123	2.58301	1.54359	-0.04991	-2.78204	0.83196	-0.00135	5.49259	0.47007	-0.00693	0.71647
0.01150	2.62192	1.54629	-0.04901	-2.79045	0.82671	-0.00133	5.51315	0.47066	-0.00713	0.71821
0.01177	2.65995	1.54897	-0.04810	-2.79866	0.82131	-0.00131	5.53128	0.47129	-0.00735	0.72002
0.01205	2.70116	1.55167	-0.04717	-2.80744	0.81597	-0.00128	5.55248	0.47187	-0.00759	0.72193
0.01233	2.75231	1.55444	-0.04625	-2.81807	0.81082	-0.00126	5.58582	0.47219	-0.00784	0.72396
0.01262	2.80861	1.55726	-0.04534	-2.82960	0.80555	-0.00124	5.62506	0.47241	-0.00811	0.72599
0.01292	2.86224	1.56004	-0.04442	-2.84055	0.79987	-0.00121	5.65985	0.47274	-0.00836	0.72799
0.01322	2.91288	1.56281	-0.04348	-2.85091	0.79402	-0.00119	5.68960	0.47318	-0.00861	0.72992
0.01353	2.96227	1.56559	-0.04253	-2.86107	0.78832	-0.00116	5.71673	0.47367	-0.00885	0.73176
0.01385	3.01066	1.56837	-0.04155	-2.87103	0.78263	-0.00114	5.74163	0.47419	-0.00908	0.73358
0.01417	3.05637	1.57113	-0.04057	-2.88044	0.77660	-0.00112	5.76183	0.47483	-0.00933	0.73553
0.01451	3.09815	1.57386	-0.03958	-2.88906	0.77005	-0.00110	5.77527	0.47562	-0.00959	0.73757
0.01485	3.13795	1.57660	-0.03856	-2.89732	0.76339	-0.00108	5.78462	0.47649	-0.00983	0.73949
0.01520	3.17415	1.57934	-0.03750	-2.90496	0.75708	-0.00106	5.78862	0.47746	-0.01001	0.74112
0.01556	3.20985	1.58206	-0.03639	-2.91246	0.75091	-0.00104	5.79219	0.47842	-0.01018	0.74270
0.01592	3.26173	1.58488	-0.03530	-2.92281	0.74480	-0.00101	5.81738	0.47898	-0.01039	0.74463
0.01630	3.33112	1.58779	-0.03427	-2.93624	0.73869	-0.00099	5.86560	0.47910	-0.01066	0.74701
0.01668	3.39868	1.59067	-0.03327	-2.94920	0.73230	-0.00096	5.91097	0.47930	-0.01095	0.74960
0.01707	3.45790	1.59348	-0.03232	-2.96058	0.72576	-0.00094	5.94466	0.47972	-0.01123	0.75222
0.01748	3.51574	1.59625	-0.03139	-2.97166	0.71925	-0.00092	5.97600	0.48018	-0.01149	0.75471
0.01789	3.56598	1.59893	-0.03043	-2.98122	0.71230	-0.00089	5.99711	0.48085	-0.01167	0.75672
0.01831	3.59999	1.60149	-0.02938	-2.98766	0.70458	-0.00088	5.99600	0.48198	-0.01176	0.75821
0.01874	3.62215	1.60403	-0.02828	-2.99189	0.69658	-0.00086	5.97784	0.48345	-0.01186	0.75974
0.01918	3.63773	1.60660	-0.02720	-2.99497	0.68911	-0.00085	5.95062	0.48509	-0.01198	0.76145
0.01963	3.64849	1.60919	-0.02616	-2.99725	0.68253	-0.00084	5.91814	0.48679	-0.01205	0.76286
0.02009	3.65406	1.61175	-0.02511	-2.99862	0.67617	-0.00084	5.88007	0.48857	-0.01204	0.76373
0.02057	3.65336	1.61427	-0.02401	-2.99877	0.66927	-0.00083	5.83456	0.49053	-0.01200	0.76438
0.02105	3.64921	1.61669	-0.02284	-2.99807	0.66163	-0.00083	5.78539	0.49260	-0.01196	0.76502
0.02154	3.64494	1.61899	-0.02164	-2.99706	0.65319	-0.00082	5.73715	0.49470	-0.01189	0.76552
0.02205	3.64527	1.62131	-0.02047	-2.99663	0.64380	-0.00081	5.69522	0.49674	-0.01181	0.76588
0.02257	3.64879	1.62384	-0.01938	-2.99672	0.63340	-0.00080	5.65625	0.49883	-0.01173	0.76626
0.02310	3.64301	1.62654	-0.01828	-2.99518	0.62240	-0.00079	5.60488	0.50124	-0.01168	0.76685
0.02364	3.62752	1.62925	-0.01708	-2.99197	0.61191	-0.00079	5.54203	0.50389	-0.01166	0.76760
0.02420	3.61456	1.63204	-0.01580	-2.98940	0.60275	-0.00079	5.48273	0.50641	-0.01159	0.76806
0.02477	3.60439	1.63488	-0.01452	-2.98738	0.59436	-0.00079	5.42740	0.50885	-0.01143	0.76791
0.02535	3.58696	1.63752	-0.01335	-2.98363	0.58524	-0.00079	5.36555	0.51146	-0.01121	0.76744
0.02595	3.55941	1.63979	-0.01228	-2.97734	0.57465	-0.00079	5.29561	0.51433	-0.01105	0.76737
0.02656	3.52657	1.64183	-0.01119	-2.96961	0.56294	-0.00079	5.22263	0.51734	-0.01100	0.76806
0.02719	3.48391	1.64396	-0.01002	-2.96020	0.55112	-0.00080	5.13843	0.52065	-0.01101	0.76904
0.02783	3.42310	1.64634	-0.00874	-2.94801	0.54003	-0.00081	5.03173	0.52451	-0.01092	0.76954
0.02848	3.35317	1.64897	-0.00741	-2.93464	0.52999	-0.00082	4.91454	0.52865	-0.01074	0.76940
0.02915	3.29061	1.65175	-0.00614	-2.92274	0.52122	-0.00084	4.80874	0.53254	-0.01051	0.76910
0.02984	3.24116	1.65455	-0.00491	-2.91302	0.51378	-0.00086	4.72322	0.53592	-0.01029	0.76900
0.03054	3.19334	1.65723	-0.00365	-2.90330	0.50727	-0.00088	4.64531	0.53912	-0.01004	0.76875
0.03126	3.11908	1.65961	-0.00229	-2.88855	0.50009	-0.00091	4.54170	0.54301	-0.00964	0.76761
0.03199	2.99671	1.66142	-0.00088	-2.86472	0.49002	-0.00094	4.38696	0.54842	-0.00906	0.76534
0.03275	2.84833	1.66270	0.00046	-2.83569	0.47689	-0.00097	4.20608	0.55481	-0.00841	0.76264
0.03352	2.71688	1.66387	0.00164	-2.80935	0.46285	-0.00099	4.04607	0.56087	-0.00785	0.76062
0.03430	2.60635	1.66536	0.00277	-2.78674	0.44937	-0.00102	3.91085	0.56642	-0.00746	0.75987
0.03511	2.48132	1.66722	0.00410	-2.76172	0.43672	-0.00105	3.76511	0.57252	-0.00722	0.76029
0.03594	2.32568	1.66934	0.00567	-2.73153	0.42539	-0.00109	3.59516	0.57961	-0.00715	0.76189
0.03678	2.17040	1.67156	0.00721	-2.70186	0.41573	-0.00113	3.43113	0.58665	-0.00717	0.76420
0.03765	2.04728	1.67367	0.00847	-2.67840	0.40741	-0.00117	3.30072	0.59254	-0.00708	0.76584
0.03854	1.95218	1.67539	0.00956	-2.66007	0.40004	-0.00119	3.19956	0.59730	-0.00680	0.76620
0.03944	1.84577	1.67618	0.01073	-2.63894	0.39275	-0.00122	3.09418	0.60221	-0.00647	0.76619
0.04037	1.69228	1.67557	0.01214	-2.60781	0.38472	-0.00126	2.95591	0.60855	-0.00625	0.76681
0.04132	1.50443	1.67419	0.01376	-2.56924	0.37679	-0.00132	2.79801	0.61604	-0.00611	0.76801
0.04229	1.32671	1.67329	0.01541	-2.53242	0.37086	-0.00139	2.65654	0.62323	-0.00593	0.76889
0.04329	1.19332	1.67371	0.01681	-2.50453	0.36713	-0.00145	2.55433	0.62894	-0.00558	0.76856
0.04431	1.10540	1.67524	0.01778	-2.48588	0.36405	-0.00150	2.48712	0.63316	-0.00502	0.76670
0.04535	1.03244	1.67704	0.01848	-2.47050	0.36004	-0.00153	2.42898	0.63703	-0.00432	0.76389

0.04642	0.94901	1.67837	0.01909	-2.45322	0.35417	-0.00156	2.36113	0.64144	-0.00362	0.76116
0.04751	0.85132	1.67867	0.01958	-2.43277	0.34632	-0.00159	2.28307	0.64641	-0.00301	0.75899
0.04863	0.72693	1.67751	0.01998	-2.40633	0.33693	-0.00162	2.18863	0.65232	-0.00246	0.75719
0.04977	0.56262	1.67481	0.02041	-2.37145	0.32684	-0.00165	2.07029	0.65972	-0.00197	0.75564
0.05094	0.36833	1.67088	0.02096	-2.33041	0.31718	-0.00170	1.93539	0.66839	-0.00155	0.75443
0.05214	0.16149	1.66625	0.02184	-2.28688	0.30888	-0.00175	1.79641	0.67779	-0.00117	0.75323
0.05337	-0.04718	1.66152	0.02324	-2.24307	0.30192	-0.00180	1.66179	0.68757	-0.00074	0.75143
0.05462	-0.24409	1.65740	0.02520	-2.20166	0.29585	-0.00186	1.54106	0.69715	-0.00023	0.74889
0.05591	-0.41518	1.65429	0.02742	-2.16538	0.29082	-0.00192	1.44207	0.70577	0.00028	0.74627
0.05722	-0.55223	1.65230	0.02940	-2.13595	0.28830	-0.00197	1.36779	0.71275	0.00068	0.74432
0.05857	-0.65335	1.65142	0.03074	-2.11393	0.28950	-0.00202	1.31705	0.71776	0.00094	0.74363
0.05995	-0.71640	1.65177	0.03130	-2.10000	0.29424	-0.00207	1.28893	0.72066	0.00102	0.74444
0.06136	-0.74783	1.65317	0.03118	-2.09301	0.30058	-0.00211	1.27750	0.72195	0.00104	0.74589
0.06280	-0.76513	1.65484	0.03075	-2.08927	0.30658	-0.00214	1.27173	0.72264	0.00117	0.74692
0.06428	-0.78053	1.65605	0.03036	-2.08608	0.31237	-0.00216	1.26492	0.72327	0.00151	0.74663
0.06579	-0.79485	1.65657	0.03006	-2.08311	0.31907	-0.00218	1.25709	0.72374	0.00220	0.74405
0.06734	-0.81049	1.65636	0.02980	-2.07968	0.32652	-0.00220	1.24783	0.72410	0.00327	0.73884
0.06893	-0.84092	1.65510	0.02962	-2.07261	0.33275	-0.00223	1.23096	0.72513	0.00454	0.73203
0.07055	-0.89970	1.65201	0.02958	-2.05831	0.33584	-0.00226	1.19994	0.72763	0.00561	0.72627
0.07221	-0.99294	1.64644	0.02965	-2.03487	0.33527	-0.00230	1.15184	0.73205	0.00616	0.72378
0.07391	-1.11791	1.63866	0.02969	-2.00304	0.33191	-0.00234	1.08877	0.73841	0.00619	0.72455
0.07565	-1.26118	1.62999	0.02946	-1.96658	0.32737	-0.00239	1.01888	0.74609	0.00595	0.72709
0.07743	-1.40160	1.62207	0.02874	-1.93105	0.32339	-0.00244	0.95341	0.75389	0.00574	0.72950
0.07925	-1.52186	1.61564	0.02748	-1.90068	0.32129	-0.00248	0.89984	0.76066	0.00574	0.73047
0.08111	-1.61788	1.61018	0.02583	-1.87607	0.32157	-0.00252	0.85844	0.76597	0.00597	0.72993
0.08302	-1.69319	1.60477	0.02397	-1.85584	0.32418	-0.00255	0.82647	0.76989	0.00640	0.72789
0.08498	-1.75179	1.59851	0.02198	-1.83847	0.32860	-0.00258	0.80141	0.77254	0.00708	0.72420
0.08697	-1.79410	1.59084	0.01970	-1.82326	0.33387	-0.00260	0.78244	0.77393	0.00792	0.71944
0.08902	-1.82166	1.58176	0.01697	-1.80981	0.33882	-0.00262	0.76841	0.77423	0.00879	0.71455
0.09112	-1.84200	1.57187	0.01392	-1.79719	0.34268	-0.00262	0.75614	0.77411	0.00965	0.70993
0.09326	-1.86367	1.56221	0.01085	-1.78479	0.34574	-0.00263	0.74267	0.77422	0.01053	0.70535
0.09545	-1.89162	1.55392	0.00803	-1.77271	0.34916	-0.00263	0.72724	0.77487	0.01146	0.70069
0.09770	-1.92620	1.54759	0.00562	-1.76126	0.35423	-0.00264	0.71129	0.77587	0.01229	0.69666
0.10000	-1.96168	1.54298	0.00348	-1.75104	0.36170	-0.00266	0.69777	0.77665	0.01282	0.69466
0.10235	-1.98838	1.53949	0.00128	-1.74318	0.37213	-0.00269	0.69015	0.77646	0.01288	0.69575
0.10476	-2.00237	1.53659	-0.00129	-1.73803	0.38600	-0.00273	0.68899	0.77505	0.01256	0.69967
0.10723	-2.00976	1.53384	-0.00413	-1.73425	0.40304	-0.00277	0.69093	0.77297	0.01206	0.70513
0.10975	-2.02227	1.53109	-0.00685	-1.72972	0.42220	-0.00282	0.69086	0.77115	0.01155	0.71065
0.11233	-2.04908	1.52852	-0.00904	-1.72310	0.44233	-0.00288	0.68504	0.77033	0.01122	0.71488
0.11498	-2.09031	1.52638	-0.01059	-1.71469	0.46252	-0.00293	0.67331	0.77062	0.01115	0.71704
0.11768	-2.13697	1.52451	-0.01170	-1.70595	0.48214	-0.00299	0.65925	0.77138	0.01127	0.71766
0.12045	-2.18193	1.52242	-0.01262	-1.69747	0.50048	-0.00303	0.64583	0.77205	0.01139	0.71805
0.12328	-2.22455	1.51966	-0.01358	-1.68866	0.51619	-0.00308	0.63334	0.77258	0.01140	0.71888
0.12619	-2.26750	1.51623	-0.01476	-1.67882	0.52780	-0.00311	0.62095	0.77320	0.01134	0.71978
0.12916	-2.31147	1.51229	-0.01644	-1.66788	0.53468	-0.00313	0.60859	0.77398	0.01128	0.72018
0.13219	-2.35621	1.50779	-0.01883	-1.65588	0.53732	-0.00314	0.59632	0.77484	0.01125	0.71978
0.13531	-2.40291	1.50271	-0.02199	-1.64283	0.53664	-0.00314	0.58323	0.77589	0.01131	0.71825
0.13849	-2.45438	1.49726	-0.02581	-1.62869	0.53300	-0.00313	0.56777	0.77747	0.01158	0.71495
0.14175	-2.51414	1.49159	-0.03008	-1.61312	0.52632	-0.00311	0.54823	0.78002	0.01210	0.70980
0.14508	-2.58094	1.48525	-0.03471	-1.59596	0.51694	-0.00309	0.52501	0.78346	0.01277	0.70359
0.14850	-2.65058	1.47765	-0.03963	-1.57736	0.50538	-0.00305	0.49994	0.78736	0.01344	0.69749
0.15199	-2.71852	1.46878	-0.04471	-1.55806	0.49250	-0.00301	0.47522	0.79117	0.01395	0.69240
0.15557	-2.78044	1.45925	-0.04984	-1.53948	0.47953	-0.00297	0.45310	0.79433	0.01428	0.68864
0.15923	-2.83079	1.45012	-0.05498	-1.52375	0.46803	-0.00293	0.43610	0.79615	0.01447	0.68606
0.16298	-2.86708	1.44214	-0.06008	-1.51208	0.45961	-0.00288	0.42542	0.79622	0.01458	0.68439
0.16681	-2.89159	1.43526	-0.06507	-1.50391	0.45561	-0.00284	0.42043	0.79457	0.01460	0.68366
0.17074	-2.90783	1.42890	-0.06997	-1.49785	0.45648	-0.00282	0.41996	0.79145	0.01448	0.68425
0.17475	-2.91891	1.42266	-0.07480	-1.49277	0.46180	-0.00281	0.42267	0.78721	0.01415	0.68643
0.17887	-2.92000	1.41650	-0.07977	-1.48955	0.47133	-0.00280	0.43019	0.78141	0.01366	0.69003
0.18307	-2.90487	1.41077	-0.08511	-1.48970	0.48495	-0.00280	0.44518	0.77344	0.01313	0.69412
0.18738	-2.87012	1.40585	-0.09081	-1.49425	0.50250	-0.00281	0.46978	0.76302	0.01266	0.69814
0.19179	-2.81911	1.40175	-0.09665	-1.50253	0.52315	-0.00281	0.50387	0.75064	0.01222	0.70203
0.19631	-2.75870	1.39853	-0.10237	-1.51324	0.54584	-0.00282	0.54597	0.73715	0.01182	0.70560
0.20092	-2.69570	1.39631	-0.10777	-1.52521	0.56951	-0.00284	0.59398	0.72340	0.01155	0.70837
0.20565	-2.63543	1.39491	-0.11283	-1.53721	0.59273	-0.00285	0.64535	0.71010	0.01144	0.71014
0.21049	-2.58704	1.39354	-0.11767	-1.54662	0.61302	-0.00287	0.69453	0.69823	0.01148	0.71107
0.21544	-2.55407	1.39144	-0.12244	-1.55195	0.62856	-0.00287	0.73773	0.68816	0.01158	0.71183
0.22051	-2.53442	1.38830	-0.12719	-1.55334	0.63876	-0.00287	0.77426	0.67968	0.01159	0.71328
0.22570	-2.52711	1.38412	-0.13199	-1.55100	0.64357	-0.00286	0.80386	0.67262	0.01147	0.71570
0.23101	-2.53026	1.37936	-0.13681	-1.54581	0.64394	-0.00283	0.82713	0.66680	0.01129	0.71871
0.23645	-2.53921	1.37484	-0.14156	-1.53960	0.64200	-0.00280	0.84689	0.66180	0.01119	0.72148
0.24201	-2.54751	1.37134	-0.14607	-1.53445	0.64022	-0.00276	0.86724	0.65705	0.01119	0.72385
0.24771	-2.54806	1.36949	-0.15025	-1.53237	0.64113	-0.00273	0.89334	0.65192	0.01119	0.72651
0.25354	-2.54658	1.36917	-0.15399	-1.53211	0.64494	-0.00271	0.92171	0.64693	0.01115	0.72961
0.25950	-2.54190	1.37021	-0.15733	-1.53388	0.65090	-0.00270	0.95241	0.64203	0.01105	0.73330
0.26561	-2.53241	1.37238	-0.16034	-1.53788	0.65833	-0.00268	0.98578	0.63715	0.01084	0.73772
0.27186	-2.52139	1.37521	-0.16309	-1.54305	0.66619	-0.00266	1.01924	0.63254	0.01052	0.74287
0.27826	-2.51306	1.37818	-0.16561	-1.54800	0.67357	-0.00265	1.04945	0.62850	0.01001	0.74908
0.28480	-2.50207	1.38158	-0.16799	-1.55402	0.68114	-0.00263	1.08063	0.62455	0.00937	0.75596
0.29150	-2.48691	1.38577	-0.17028	-1.56180	0.68892	-0.00260	1.11435	0.62056	0.00872	0.76264
0.29836	-2.47346	1.38981	-0.17254	-1.56926	0.69667	-0.00258	1.14607	0.61685	0.00813	0.76856

0.30539	-2.46965	1.39343	-0.17477	-1.57456	0.70392	-0.00257	1.17025	0.61389	0.00771	0.77303
0.31257	-2.47106	1.39732	-0.17701	-1.57924	0.71105	-0.00255	1.19057	0.61137	0.00753	0.77567
0.31993	-2.47695	1.40121	-0.17939	-1.58322	0.71752	-0.00254	1.20718	0.60919	0.00754	0.77678
0.32745	-2.48928	1.40466	-0.18194	-1.58571	0.72365	-0.00253	1.21884	0.60733	0.00771	0.77656
0.33517	-2.50509	1.40837	-0.18467	-1.58799	0.72973	-0.00253	1.22851	0.60561	0.00808	0.77472
0.34304	-2.52737	1.41191	-0.18756	-1.58914	0.73475	-0.00253	1.23383	0.60416	0.00863	0.77134
0.35112	-2.55847	1.41458	-0.19068	-1.58798	0.73765	-0.00252	1.23347	0.60296	0.00924	0.76742
0.35938	-2.59525	1.41695	-0.19403	-1.58563	0.73845	-0.00252	1.23025	0.60192	0.00987	0.76329
0.36784	-2.64068	1.41928	-0.19755	-1.58179	0.73710	-0.00251	1.22242	0.60123	0.01056	0.75873
0.37649	-2.69878	1.42117	-0.20116	-1.57546	0.73343	-0.00249	1.20630	0.60111	0.01133	0.75380
0.38536	-2.76372	1.42269	-0.20490	-1.56781	0.72860	-0.00248	1.18672	0.60115	0.01200	0.74962
0.39442	-2.83299	1.42434	-0.20881	-1.55979	0.72190	-0.00246	1.16570	0.60128	0.01253	0.74669
0.40370	-2.91223	1.42687	-0.21270	-1.55105	0.71484	-0.00245	1.14059	0.60185	0.01299	0.74442
0.41321	-2.99997	1.42916	-0.21669	-1.54089	0.70551	-0.00243	1.11108	0.60275	0.01330	0.74338
0.42292	-3.09198	1.43139	-0.22084	-1.53016	0.69690	-0.00241	1.08170	0.60350	0.01341	0.74391
0.43288	-3.19096	1.43469	-0.22499	-1.51943	0.69004	-0.00241	1.05185	0.60433	0.01331	0.74599
0.44307	-3.30571	1.43747	-0.22906	-1.50554	0.68173	-0.00240	1.01290	0.60599	0.01298	0.74964
0.45349	-3.43208	1.44013	-0.23313	-1.48965	0.67392	-0.00241	0.96835	0.60825	0.01237	0.75522
0.46417	-3.56691	1.44256	-0.23731	-1.47229	0.66620	-0.00242	0.92041	0.61088	0.01154	0.76244
0.47508	-3.69849	1.44566	-0.24176	-1.45658	0.66166	-0.00243	0.87871	0.61273	0.01061	0.77047
0.48626	-3.83687	1.44830	-0.24623	-1.43969	0.65574	-0.00245	0.83481	0.61472	0.00971	0.77837
0.49771	-3.97629	1.45098	-0.25081	-1.42345	0.65092	-0.00246	0.79310	0.61630	0.00903	0.78488
0.50942	-4.10976	1.45363	-0.25564	-1.40916	0.64637	-0.00246	0.75809	0.61667	0.00869	0.78932
0.52140	-4.23150	1.45695	-0.26069	-1.39837	0.64485	-0.00246	0.73502	0.61499	0.00866	0.79187
0.53367	-4.34070	1.46210	-0.26576	-1.39226	0.64861	-0.00247	0.72572	0.61117	0.00896	0.79231
0.54624	-4.44300	1.46734	-0.27078	-1.38790	0.65260	-0.00248	0.72458	0.60584	0.00943	0.79168
0.55910	-4.54072	1.47212	-0.27580	-1.38410	0.65527	-0.00248	0.72974	0.59923	0.00995	0.79053
0.57225	-4.56634	1.47790	-0.28141	-1.39654	0.66839	-0.00247	0.78870	0.58322	0.01049	0.78912
0.58569	-4.72890	1.48134	-0.28566	-1.37804	0.65655	-0.00246	0.75566	0.58282	0.01110	0.78714
0.59948	-4.82791	1.48651	-0.29043	-1.37473	0.65669	-0.00245	0.77093	0.57424	0.01196	0.78333
0.61357	-4.93392	1.49128	-0.29495	-1.36964	0.65443	-0.00244	0.78335	0.56602	0.01285	0.77908
0.62802	-5.03815	1.49616	-0.29953	-1.36520	0.65260	-0.00242	0.79940	0.55722	0.01398	0.77332
0.64280	-5.14749	1.50163	-0.30388	-1.36016	0.65227	-0.00242	0.81593	0.54844	0.01529	0.76622
0.65794	-5.25911	1.50682	-0.30817	-1.35442	0.64943	-0.00240	0.83379	0.53926	0.01659	0.75917
0.67340	-5.37349	1.51234	-0.31223	-1.34834	0.64763	-0.00239	0.85296	0.52996	0.01800	0.75128
0.68927	-5.48728	1.51781	-0.31609	-1.34232	0.64649	-0.00239	0.87569	0.52021	0.01946	0.74300
0.70547	-5.59425	1.52301	-0.31982	-1.33742	0.64618	-0.00238	0.90649	0.50944	0.02088	0.73477
0.72207	-5.69295	1.52813	-0.32348	-1.33418	0.64703	-0.00237	0.94903	0.49729	0.02226	0.72677
0.73910	-5.78671	1.53380	-0.32687	-1.33245	0.64927	-0.00236	1.00334	0.48409	0.02362	0.71835
0.75649	-5.87579	1.53989	-0.32999	-1.33201	0.65259	-0.00235	1.06991	0.47000	0.02496	0.70939
0.77429	-5.96010	1.54607	-0.33293	-1.33255	0.65708	-0.00234	1.14941	0.45514	0.02628	0.69963
0.79246	-6.03831	1.55199	-0.33570	-1.33403	0.66264	-0.00233	1.24265	0.43966	0.02759	0.68881
0.81116	-6.11085	1.55761	-0.33836	-1.33645	0.66903	-0.00233	1.35191	0.42354	0.02889	0.67710
0.83022	-6.17841	1.56315	-0.34082	-1.33973	0.67623	-0.00232	1.47664	0.40718	0.03014	0.66507
0.84976	-6.24359	1.56900	-0.34302	-1.34380	0.68436	-0.00231	1.61764	0.39068	0.03131	0.65318
0.86972	-6.30855	1.57535	-0.34495	-1.34833	0.69311	-0.00230	1.77257	0.37443	0.03234	0.64207
0.89023	-6.37389	1.58220	-0.34664	-1.35324	0.70229	-0.00229	1.94171	0.35849	0.03324	0.63225
0.91116	-6.43905	1.58925	-0.34816	-1.35827	0.71157	-0.00228	2.12168	0.34317	0.03397	0.62431
0.93257	-6.50424	1.59622	-0.34957	-1.36315	0.72068	-0.00227	2.31039	0.32853	0.03456	0.61828
0.95456	-6.57066	1.60301	-0.35090	-1.36757	0.72932	-0.00227	2.50537	0.31462	0.03500	0.61411
0.97704	-6.63922	1.60971	-0.35209	-1.37141	0.73747	-0.00226	2.70377	0.30148	0.03530	0.61172
1.00000	-6.71200	1.61659	-0.35310	-1.37449	0.74505	-0.00225	2.90263	0.28915	0.03545	0.61096
1.02354	-6.79064	1.62394	-0.35389	-1.37678	0.75208	-0.00224	3.10084	0.27757	0.03547	0.61165
1.04767	-6.87618	1.63188	-0.35443	-1.37817	0.75845	-0.00223	3.29556	0.26674	0.03537	0.61359
1.07227	-6.96816	1.64028	-0.35477	-1.37857	0.76399	-0.00223	3.48323	0.25673	0.03517	0.61652
1.09745	-7.06592	1.64896	-0.35494	-1.37798	0.76866	-0.00222	3.66282	0.24745	0.03490	0.62022
1.12334	-7.16891	1.65770	-0.35503	-1.37636	0.77239	-0.00221	3.83279	0.23885	0.03459	0.62455
1.14982	-7.27501	1.66630	-0.35505	-1.37391	0.77528	-0.00221	3.99288	0.23090	0.03426	0.62929
1.17675	-7.38295	1.67470	-0.35502	-1.37080	0.77743	-0.00220	4.14247	0.22359	0.03393	0.63426
1.20453	-7.49464	1.68318	-0.35492	-1.36707	0.77898	-0.00220	4.28320	0.21679	0.03359	0.63934
1.23289	-7.60938	1.69188	-0.35469	-1.36286	0.78007	-0.00219	4.41377	0.21054	0.03325	0.64428
1.26183	-7.72752	1.70099	-0.35433	-1.35832	0.78084	-0.00218	4.53437	0.20481	0.03291	0.64905
1.29149	-7.84969	1.71069	-0.35380	-1.35350	0.78141	-0.00218	4.64602	0.19955	0.03257	0.65373
1.32188	-7.97531	1.72097	-0.35311	-1.34854	0.78188	-0.00217	4.74959	0.19474	0.03221	0.65842
1.35300	-8.10386	1.73173	-0.35229	-1.34343	0.78224	-0.00217	4.84447	0.19034	0.03184	0.66323
1.38485	-8.23434	1.74277	-0.35136	-1.33819	0.78248	-0.00217	4.93061	0.18636	0.03146	0.66830
1.41743	-8.36544	1.75389	-0.35038	-1.33291	0.78263	-0.00216	5.00869	0.18276	0.03107	0.67378
1.45075	-8.49613	1.76493	-0.34937	-1.32764	0.78271	-0.00216	5.07912	0.17952	0.03067	0.67971
1.48500	-8.62656	1.77587	-0.34833	-1.32241	0.78275	-0.00216	5.14283	0.17662	0.03026	0.68614
1.51999	-8.75585	1.78665	-0.34727	-1.31728	0.78276	-0.00216	5.19938	0.17405	0.02984	0.69302
1.55569	-8.88407	1.79735	-0.34616	-1.31231	0.78284	-0.00215	5.24964	0.17181	0.02942	0.70031
1.59236	-9.01260	1.80816	-0.34497	-1.30747	0.78302	-0.00215	5.29398	0.16986	0.02897	0.70804
1.62973	-9.14096	1.81916	-0.34369	-1.30285	0.78337	-0.00215	5.33310	0.16819	0.02851	0.71612
1.66806	-9.27033	1.83053	-0.34227	-1.29846	0.78395	-0.00214	5.36803	0.16679	0.02802	0.72458
1.70736	-9.40106	1.84233	-0.34069	-1.29429	0.78475	-0.00214	5.39888	0.16562	0.02752	0.73339
1.74764	-9.53310	1.85457	-0.33897	-1.29034	0.78581	-0.00214	5.42633	0.16468	0.02699	0.74254
1.78859	-9.66521	1.86711	-0.33710	-1.28665	0.78708	-0.00214	5.45047	0.16394	0.02645	0.75194
1.83083	-9.79901	1.88006	-0.33509	-1.28314	0.78855	-0.00214	5.47187	0.16339	0.02590	0.76171
1.87371	-9.93190	1.89309	-0.33299	-1.27987	0.79018	-0.00214	5.49027	0.16302	0.02534	0.77167
1.91791	-10.06553	1.90629	-0.33078	-1.27676	0.79193	-0.00214	5.50581	0.16283	0.02478	0.78190
1.96309	-10.19836	1.91944	-0.32851	-1.27380	0.79377	-0.00214	5.51831	0.16279	0.02423	0.79220

2.00924	-10.33008	1.93246	-0.32618	-1.27099	0.79564	-0.00214	5.52762	0.16291	0.02369	0.80242
2.05634	-10.46049	1.94528	-0.32381	-1.26830	0.79753	-0.00214	5.53363	0.16317	0.02317	0.81242
2.10482	-10.59074	1.95800	-0.32138	-1.26567	0.79943	-0.00214	5.53629	0.16356	0.02267	0.82211
2.15424	-10.71980	1.97051	-0.31892	-1.26311	0.80132	-0.00214	5.53549	0.16408	0.02218	0.83122
2.20507	-10.84911	1.98297	-0.31638	-1.26058	0.80323	-0.00214	5.53128	0.16472	0.02171	0.83973
2.25683	-10.97769	1.99532	-0.31377	-1.25811	0.80514	-0.00213	5.52382	0.16547	0.02125	0.84761
2.31000	-11.10696	2.00774	-0.31107	-1.25568	0.80710	-0.00213	5.51343	0.16632	0.02080	0.85505
2.36463	-11.23735	2.02029	-0.30825	-1.25326	0.80910	-0.00213	5.49981	0.16727	0.02034	0.86218
2.42014	-11.36773	2.03289	-0.30534	-1.25086	0.81112	-0.00213	5.48344	0.16829	0.01988	0.86906
2.47709	-11.49942	2.04567	-0.30230	-1.24849	0.81320	-0.00213	5.46482	0.16938	0.01941	0.87590
2.53550	-11.63253	2.05865	-0.29914	-1.24612	0.81534	-0.00213	5.44408	0.17052	0.01893	0.88289
2.59471	-11.76561	2.07172	-0.29588	-1.24376	0.81751	-0.00213	5.42166	0.17170	0.01844	0.89008
2.65604	-11.90129	2.08508	-0.29245	-1.24140	0.81975	-0.00213	5.39763	0.17292	0.01794	0.89770
2.71887	-12.03807	2.09861	-0.28892	-1.23903	0.82203	-0.00213	5.37207	0.17417	0.01742	0.90569
2.78242	-12.17407	2.11210	-0.28532	-1.23670	0.82431	-0.00213	5.34563	0.17543	0.01690	0.91404
2.84819	-12.31193	2.12577	-0.28156	-1.23440	0.82665	-0.00213	5.31836	0.17672	0.01637	0.92300
2.91545	-12.45020	2.13951	-0.27776	-1.23208	0.82899	-0.00213	5.29002	0.17801	0.01584	0.93249
2.98329	-12.58621	2.15295	-0.27389	-1.22989	0.83134	-0.00213	5.26218	0.17930	0.01532	0.94230
3.05344	-12.72376	2.16653	-0.26997	-1.22763	0.83366	-0.00213	5.23280	0.18060	0.01481	0.95241
3.12598	-12.86216	2.18010	-0.26589	-1.22546	0.83604	-0.00213	5.20330	0.18193	0.01430	0.96264
3.19898	-12.99783	2.19333	-0.26189	-1.22329	0.83832	-0.00213	5.17351	0.18322	0.01381	0.97241
3.27439	-13.13412	2.20653	-0.25774	-1.22122	0.84064	-0.00213	5.14365	0.18454	0.01334	0.98171
3.35121	-13.26897	2.21949	-0.25364	-1.21914	0.84289	-0.00213	5.11349	0.18584	0.01290	0.99024
3.43053	-13.40426	2.23239	-0.24938	-1.21719	0.84517	-0.00213	5.08352	0.18716	0.01247	0.99838
3.51124	-13.53794	2.24505	-0.24520	-1.21519	0.84738	-0.00213	5.05330	0.18845	0.01206	1.00623
3.59324	-13.66954	2.25738	-0.24089	-1.21343	0.84962	-0.00212	5.02455	0.18974	0.01166	1.01418
3.67782	-13.80211	2.26979	-0.23668	-1.21149	0.85176	-0.00212	4.99421	0.19101	0.01127	1.02261
3.76506	-13.93356	2.28187	-0.23216	-1.20993	0.85404	-0.00212	4.96659	0.19228	0.01087	1.03202
3.85356	-14.06531	2.29414	-0.22792	-1.20804	0.85612	-0.00212	4.93621	0.19353	0.01050	1.04205
3.94477	-14.19457	2.30581	-0.22331	-1.20666	0.85839	-0.00212	4.91009	0.19476	0.01011	1.05284
4.03714	-14.32493	2.31786	-0.21893	-1.20496	0.86048	-0.00211	4.88095	0.19599	0.00975	1.06374
4.13223	-14.45327	2.32942	-0.21440	-1.20350	0.86264	-0.00211	4.85454	0.19717	0.00939	1.07478
4.23012	-14.58231	2.34106	-0.20963	-1.20228	0.86490	-0.00211	4.82920	0.19837	0.00903	1.08561
4.32900	-14.71165	2.35295	-0.20529	-1.20056	0.86689	-0.00210	4.80066	0.19950	0.00871	1.09554
4.43066	-14.83636	2.36386	-0.20037	-1.19970	0.86921	-0.00210	4.77936	0.20062	0.00838	1.10501
4.53515	-14.96622	2.37578	-0.19569	-1.19832	0.87133	-0.00209	4.75311	0.20175	0.00807	1.11372
4.64253	-15.09452	2.38733	-0.19110	-1.19691	0.87341	-0.00209	4.72809	0.20280	0.00778	1.12179
4.75059	-15.21672	2.39793	-0.18595	-1.19644	0.87581	-0.00209	4.71019	0.20386	0.00747	1.12934
4.86145	-15.34607	2.40996	-0.18136	-1.19500	0.87781	-0.00208	4.68444	0.20489	0.00721	1.13614
4.97760	-15.47316	2.42122	-0.17656	-1.19392	0.87997	-0.00208	4.66292	0.20586	0.00693	1.14267
5.09424	-15.59439	2.43164	-0.17116	-1.19380	0.88247	-0.00207	4.64819	0.20686	0.00664	1.14887
5.21376	-15.72447	2.44381	-0.16650	-1.19243	0.88445	-0.00207	4.62383	0.20782	0.00639	1.15442
5.33618	-15.84871	2.45484	-0.16184	-1.19139	0.88651	-0.00206	4.60394	0.20868	0.00614	1.15976
5.46150	-15.96623	2.46459	-0.15622	-1.19173	0.88911	-0.00206	4.59367	0.20960	0.00585	1.16527
5.58971	-16.09408	2.47641	-0.15130	-1.19080	0.89121	-0.00205	4.57343	0.21049	0.00560	1.17041
5.72082	-16.22143	2.48815	-0.14698	-1.18929	0.89299	-0.00205	4.55089	0.21126	0.00538	1.17545
5.85823	-16.33680	2.49728	-0.14126	-1.18993	0.89565	-0.00204	4.54395	0.21210	0.00509	1.18130
5.99520	-16.45681	2.50773	-0.13580	-1.19004	0.89806	-0.00204	4.53211	0.21295	0.00481	1.18704
6.13497	-16.58695	2.52021	-0.13154	-1.18839	0.89972	-0.00203	4.50890	0.21366	0.00462	1.19245
6.28141	-16.70578	2.53019	-0.12677	-1.18793	0.90179	-0.00202	4.49585	0.21434	0.00438	1.19844
6.42674	-16.81176	2.53813	-0.12087	-1.18931	0.90454	-0.00202	4.49440	0.21513	0.00407	1.20488
6.57895	-16.93402	2.54896	-0.11557	-1.18922	0.90676	-0.00201	4.48182	0.21589	0.00382	1.21127
6.73401	-17.06577	2.56174	-0.11164	-1.18728	0.90818	-0.00200	4.45890	0.21644	0.00366	1.21725
6.89180	-17.17569	2.57036	-0.10694	-1.18733	0.91023	-0.00200	4.45086	0.21702	0.00342	1.22382
7.05716	-17.27839	2.57735	-0.10071	-1.18934	0.91314	-0.00199	4.45354	0.21782	0.00310	1.23114
7.22022	-17.39206	2.58699	-0.09548	-1.18973	0.91535	-0.00198	4.44570	0.21848	0.00285	1.23774
7.39098	-17.52349	2.59978	-0.09157	-1.18791	0.91669	-0.00198	4.42545	0.21890	0.00270	1.24370
7.56430	-17.63898	2.60959	-0.08782	-1.18680	0.91812	-0.00197	4.41238	0.21925	0.00254	1.24950
7.73994	-17.72638	2.61417	-0.08189	-1.18942	0.92096	-0.00196	4.41948	0.22002	0.00222	1.25593
7.92393	-17.83005	2.62164	-0.07614	-1.19099	0.92350	-0.00196	4.41932	0.22072	0.00193	1.26178
8.11030	-17.94707	2.63186	-0.07139	-1.19088	0.92535	-0.00195	4.41021	0.22121	0.00173	1.26669
8.29876	-18.07900	2.64507	-0.06843	-1.18819	0.92610	-0.00194	4.39040	0.22125	0.00166	1.27041
8.49618	-18.18219	2.65247	-0.06452	-1.18809	0.92769	-0.00193	4.38525	0.22156	0.00148	1.27469
8.69565	-18.25808	2.65489	-0.05831	-1.19175	0.93074	-0.00193	4.39598	0.22250	0.00112	1.27986
8.90472	-18.35795	2.66165	-0.05279	-1.19344	0.93314	-0.00192	4.39701	0.22314	0.00085	1.28444
9.11577	-18.46658	2.67030	-0.04796	-1.19399	0.93505	-0.00191	4.39312	0.22359	0.00064	1.28859
9.32836	-18.59944	2.68375	-0.04497	-1.19141	0.93567	-0.00190	4.37831	0.22338	0.00058	1.29179
9.54198	-18.71488	2.69400	-0.04268	-1.18905	0.93615	-0.00189	4.36914	0.22300	0.00055	1.29513
9.76563	-18.77841	2.69427	-0.03721	-1.19287	0.93896	-0.00189	4.37752	0.22410	0.00021	1.30087
10.00000	-18.85400	2.69656	-0.03115	-1.19653	0.94188	-0.00188	4.38586	0.22509	-0.00015	1.30729

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Median stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 30 - 61 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.82898	3.38215	-0.04371	-1.66436	1.00622	-0.00100	1.07897	0.46025	-0.01061	0.29392
PGV	4.30478	1.78566	-0.10572	-2.75088	1.42793	-0.00143	8.90514	0.31442	-0.01033	0.42035
PGA	2.83719	1.60328	-0.06611	-2.92504	1.04057	-0.00139	6.08024	0.45798	-0.03307	0.76535
0.01000	3.82351	1.62176	-0.06446	-3.11395	1.04529	-0.00116	7.36037	0.43978	-0.00917	0.70046
0.01024	3.83361	1.62462	-0.06355	-3.11703	1.03882	-0.00115	7.35283	0.44095	-0.00924	0.70125
0.01048	3.84925	1.62746	-0.06264	-3.12111	1.03257	-0.00113	7.35215	0.44200	-0.00932	0.70204
0.01072	3.87125	1.63030	-0.06174	-3.12636	1.02653	-0.00111	7.35940	0.44292	-0.00940	0.70284
0.01097	3.89901	1.63313	-0.06083	-3.13265	1.02066	-0.00110	7.37366	0.44371	-0.00950	0.70368
0.01123	3.93201	1.63598	-0.05992	-3.13989	1.01496	-0.00108	7.39421	0.44439	-0.00960	0.70455
0.01150	3.97146	1.63884	-0.05902	-3.14832	1.00948	-0.00106	7.42286	0.44493	-0.00972	0.70547
0.01177	4.01761	1.64173	-0.05812	-3.15797	1.00417	-0.00104	7.45989	0.44534	-0.00986	0.70644
0.01205	4.06746	1.64462	-0.05721	-3.16828	0.99889	-0.00101	7.50098	0.44569	-0.01001	0.70746
0.01233	4.11576	1.64748	-0.05628	-3.17826	0.99349	-0.00099	7.53872	0.44608	-0.01017	0.70852
0.01262	4.15966	1.65028	-0.05534	-3.18737	0.98792	-0.00097	7.56917	0.44659	-0.01034	0.70967
0.01292	4.20235	1.65306	-0.05437	-3.19621	0.98225	-0.00095	7.59673	0.44714	-0.01054	0.71093
0.01322	4.25004	1.65587	-0.05341	-3.20594	0.97658	-0.00093	7.63028	0.44761	-0.01075	0.71228
0.01353	4.30764	1.65874	-0.05246	-3.21747	0.97102	-0.00090	7.67679	0.44789	-0.01096	0.71362
0.01385	4.37428	1.66166	-0.05153	-3.23065	0.96560	-0.00088	7.73522	0.44799	-0.01116	0.71490
0.01417	4.44405	1.66458	-0.05059	-3.24435	0.96030	-0.00085	7.79768	0.44804	-0.01135	0.71606
0.01451	4.51305	1.66747	-0.04965	-3.25785	0.95501	-0.00083	7.85864	0.44810	-0.01151	0.71710
0.01485	4.57786	1.67035	-0.04867	-3.27055	0.94952	-0.00080	7.91241	0.44829	-0.01167	0.71813
0.01520	4.63498	1.67323	-0.04765	-3.28184	0.94371	-0.00078	7.95307	0.44868	-0.01183	0.71923
0.01556	4.68734	1.67612	-0.04657	-3.29228	0.93775	-0.00076	7.98477	0.44922	-0.01202	0.72057
0.01592	4.73783	1.67900	-0.04547	-3.30232	0.93166	-0.00074	8.01271	0.44982	-0.01224	0.72220
0.01630	4.78633	1.68181	-0.04436	-3.31188	0.92544	-0.00071	8.03786	0.45046	-0.01250	0.72409
0.01668	4.83049	1.68453	-0.04326	-3.32053	0.91912	-0.00070	8.05712	0.45117	-0.01277	0.72618
0.01707	4.87061	1.68718	-0.04218	-3.32835	0.91264	-0.00068	8.07032	0.45197	-0.01304	0.72835
0.01748	4.91518	1.68990	-0.04110	-3.33697	0.90613	-0.00066	8.08839	0.45271	-0.01332	0.73057
0.01789	4.96148	1.69273	-0.03997	-3.34597	0.89968	-0.00064	8.10637	0.45347	-0.01358	0.73269
0.01831	5.00028	1.69561	-0.03876	-3.35367	0.89310	-0.00062	8.11071	0.45445	-0.01379	0.73448
0.01874	5.03858	1.69856	-0.03750	-3.36130	0.88652	-0.00061	8.11235	0.45548	-0.01398	0.73619
0.01918	5.08380	1.70158	-0.03622	-3.37012	0.88011	-0.00059	8.12373	0.45638	-0.01420	0.73808
0.01963	5.13581	1.70465	-0.03498	-3.38004	0.87378	-0.00057	8.14528	0.45715	-0.01445	0.74017
0.02009	5.19586	1.70781	-0.03374	-3.39130	0.86722	-0.00055	8.17774	0.45780	-0.01475	0.74262
0.02057	5.26261	1.71107	-0.03250	-3.40371	0.86037	-0.00053	8.21827	0.45838	-0.01511	0.74543
0.02105	5.32707	1.71435	-0.03125	-3.41566	0.85324	-0.00051	8.25417	0.45904	-0.01548	0.74838
0.02154	5.37795	1.71755	-0.03000	-3.42507	0.84565	-0.00049	8.26973	0.46000	-0.01583	0.75112
0.02205	5.40419	1.72074	-0.02870	-3.43007	0.83774	-0.00048	8.24861	0.46148	-0.01611	0.75344
0.02257	5.40845	1.72394	-0.02730	-3.43115	0.82971	-0.00048	8.19603	0.46343	-0.01635	0.75555
0.02310	5.40752	1.72709	-0.02585	-3.43114	0.82142	-0.00047	8.13787	0.46548	-0.01660	0.75767
0.02364	5.41072	1.73022	-0.02443	-3.43172	0.81268	-0.00047	8.08669	0.46746	-0.01687	0.75989
0.02420	5.41671	1.73339	-0.02302	-3.43271	0.80331	-0.00046	8.03892	0.46943	-0.01713	0.76215
0.02477	5.42570	1.73653	-0.02165	-3.43413	0.79352	-0.00045	7.99506	0.47136	-0.01735	0.76410
0.02535	5.43655	1.73958	-0.02030	-3.43573	0.78349	-0.00044	7.95456	0.47326	-0.01749	0.76557
0.02595	5.44158	1.74258	-0.01894	-3.43613	0.77300	-0.00043	7.90644	0.47529	-0.01757	0.76667
0.02656	5.42653	1.74565	-0.01754	-3.43284	0.76173	-0.00043	7.83028	0.47781	-0.01762	0.76759
0.02719	5.38776	1.74884	-0.01602	-3.42539	0.75040	-0.00043	7.72128	0.48089	-0.01765	0.76848
0.02783	5.34840	1.75218	-0.01440	-3.41804	0.73974	-0.00043	7.61105	0.48399	-0.01764	0.76914
0.02848	5.31669	1.75552	-0.01279	-3.41209	0.72956	-0.00044	7.51149	0.48693	-0.01765	0.76996
0.02915	5.27061	1.75876	-0.01118	-3.40346	0.71957	-0.00045	7.39544	0.49015	-0.01775	0.77155
0.02984	5.19869	1.76184	-0.00954	-3.39008	0.70976	-0.00046	7.24980	0.49385	-0.01793	0.77382
0.03054	5.12350	1.76476	-0.00790	-3.37589	0.70006	-0.00048	7.10456	0.49759	-0.01816	0.77646
0.03126	5.04758	1.76747	-0.00626	-3.36134	0.69043	-0.00050	6.96243	0.50129	-0.01837	0.77907
0.03199	4.95809	1.76996	-0.00460	-3.34429	0.68091	-0.00052	6.80663	0.50525	-0.01852	0.78131
0.03275	4.87182	1.77246	-0.00304	-3.32770	0.67129	-0.00054	6.65813	0.50917	-0.01865	0.78352
0.03352	4.80616	1.77525	-0.00171	-3.31456	0.66106	-0.00056	6.53819	0.51272	-0.01885	0.78632
0.03430	4.73871	1.77833	-0.00046	-3.30100	0.64968	-0.00057	6.41736	0.51645	-0.01907	0.78929
0.03511	4.62491	1.78148	0.00098	-3.27940	0.63711	-0.00060	6.24122	0.52136	-0.01916	0.79148
0.03594	4.45578	1.78446	0.00272	-3.24808	0.62352	-0.00063	6.00230	0.52764	-0.01915	0.79303
0.03678	4.28009	1.78718	0.00453	-3.21552	0.61029	-0.00067	5.76149	0.53412	-0.01918	0.79484
0.03765	4.14568	1.78969	0.00614	-3.19015	0.59939	-0.00070	5.57580	0.53948	-0.01924	0.79686
0.03854	4.02820	1.79210	0.00767	-3.16763	0.59079	-0.00073	5.41826	0.54424	-0.01923	0.79841
0.03944	3.88703	1.79437	0.00937	-3.14076	0.58297	-0.00078	5.24267	0.54947	-0.01910	0.79919
0.04037	3.73432	1.79623	0.01111	-3.11146	0.57481	-0.00082	5.06102	0.55496	-0.01881	0.79902
0.04132	3.58732	1.79734	0.01265	-3.08242	0.56538	-0.00086	4.89115	0.56029	-0.01841	0.79800
0.04229	3.42401	1.79756	0.01402	-3.04963	0.55458	-0.00090	4.71083	0.56601	-0.01800	0.79685
0.04329	3.24320	1.79711	0.01535	-3.01314	0.54437	-0.00095	4.52076	0.57209	-0.01775	0.79654
0.04431	3.08307	1.79669	0.01645	-2.98035	0.53553	-0.00099	4.35537	0.57764	-0.01763	0.79696
0.04535	2.96774	1.79706	0.01708	-2.95614	0.52611	-0.00102	4.22994	0.58232	-0.01747	0.79696

0.04642	2.87860	1.79836	0.01743	-2.93746	0.51562	-0.00104	4.12448	0.58666	-0.01720	0.79631
0.04751	2.77023	1.79994	0.01810	-2.91595	0.50631	-0.00107	4.00291	0.59153	-0.01695	0.79582
0.04863	2.61769	1.80114	0.01948	-2.88675	0.50002	-0.00111	3.84902	0.59733	-0.01684	0.79625
0.04977	2.43484	1.80176	0.02142	-2.85208	0.49577	-0.00117	3.67547	0.60379	-0.01692	0.79783
0.05094	2.25677	1.80213	0.02347	-2.81815	0.49168	-0.00122	3.51091	0.61018	-0.01707	0.79979
0.05214	2.10810	1.80276	0.02522	-2.78941	0.48710	-0.00127	3.37563	0.61584	-0.01706	0.80062
0.05337	1.98386	1.80362	0.02655	-2.76497	0.48277	-0.00131	3.26529	0.62077	-0.01677	0.79964
0.05462	1.85568	1.80400	0.02761	-2.73956	0.47970	-0.00135	3.15646	0.62564	-0.01632	0.79761
0.05591	1.70156	1.80320	0.02866	-2.70899	0.47779	-0.00140	3.03061	0.63111	-0.01595	0.79623
0.05722	1.54042	1.80134	0.02965	-2.67644	0.47559	-0.00145	2.90246	0.63674	-0.01581	0.79655
0.05857	1.39735	1.79905	0.03043	-2.64621	0.47162	-0.00149	2.79191	0.64193	-0.01588	0.79836
0.05995	1.26239	1.79710	0.03109	-2.61710	0.46616	-0.00153	2.69015	0.64712	-0.01598	0.80060
0.06136	1.11714	1.79604	0.03182	-2.58704	0.46224	-0.00158	2.58264	0.65280	-0.01595	0.80198
0.06280	0.96054	1.79520	0.03268	-2.55589	0.46214	-0.00164	2.46932	0.65875	-0.01578	0.80251
0.06428	0.79488	1.79295	0.03372	-2.52262	0.46471	-0.00170	2.35244	0.66477	-0.01567	0.80338
0.06579	0.62649	1.78886	0.03496	-2.48754	0.46746	-0.00176	2.23678	0.67078	-0.01573	0.80539
0.06734	0.46049	1.78378	0.03617	-2.45206	0.46798	-0.00182	2.12387	0.67694	-0.01586	0.80771
0.06893	0.28548	1.77805	0.03727	-2.41440	0.46540	-0.00187	2.00573	0.68387	-0.01588	0.80915
0.07055	0.09833	1.77131	0.03827	-2.37346	0.46161	-0.00192	1.88473	0.69138	-0.01583	0.81004
0.07221	-0.08185	1.76390	0.03892	-2.33267	0.45841	-0.00197	1.77552	0.69852	-0.01580	0.81101
0.07391	-0.23690	1.75723	0.03909	-2.29642	0.45594	-0.00202	1.68748	0.70465	-0.01576	0.81184
0.07565	-0.35420	1.75229	0.03874	-2.26797	0.45358	-0.00206	1.62420	0.70944	-0.01570	0.81240
0.07743	-0.43307	1.74864	0.03790	-2.24735	0.45071	-0.00209	1.58226	0.71287	-0.01562	0.81258
0.07925	-0.49851	1.74547	0.03692	-2.22973	0.44737	-0.00211	1.54586	0.71599	-0.01541	0.81181
0.08111	-0.58023	1.74237	0.03625	-2.20981	0.44408	-0.00213	1.49826	0.72006	-0.01496	0.80945
0.08302	-0.68085	1.73957	0.03594	-2.18748	0.44153	-0.00216	1.43947	0.72515	-0.01417	0.80506
0.08498	-0.78380	1.73725	0.03575	-2.16559	0.44053	-0.00219	1.38117	0.73031	-0.01312	0.79918
0.08697	-0.87000	1.73469	0.03531	-2.14641	0.44202	-0.00222	1.33553	0.73430	-0.01211	0.79387
0.08902	-0.92647	1.73045	0.03421	-2.13070	0.44585	-0.00225	1.30868	0.73626	-0.01136	0.79042
0.09112	-0.96235	1.72331	0.03218	-2.11594	0.45004	-0.00228	1.29252	0.73679	-0.01078	0.78819
0.09326	-1.00292	1.71332	0.02939	-2.09809	0.45179	-0.00229	1.27011	0.73767	-0.01024	0.78625
0.09545	-1.06789	1.70184	0.02636	-2.07499	0.44946	-0.00230	1.23055	0.74028	-0.00983	0.78517
0.09770	-1.16349	1.69030	0.02367	-2.04657	0.44363	-0.00231	1.17399	0.74499	-0.00968	0.78586
0.10000	-1.28015	1.67979	0.02160	-2.01519	0.43718	-0.00233	1.11008	0.75100	-0.00968	0.78772
0.10235	-1.40287	1.67067	0.02015	-1.98381	0.43368	-0.00235	1.04894	0.75716	-0.00958	0.78904
0.10476	-1.52418	1.66213	0.01913	-1.95319	0.43460	-0.00239	0.99332	0.76288	-0.00919	0.78870
0.10723	-1.63753	1.65340	0.01819	-1.92405	0.43936	-0.00244	0.94375	0.76791	-0.00851	0.78642
0.10975	-1.73889	1.64486	0.01702	-1.89774	0.44715	-0.00249	0.90021	0.77217	-0.00744	0.78154
0.11233	-1.83349	1.63700	0.01554	-1.87399	0.45695	-0.00254	0.85924	0.77613	-0.00599	0.77388
0.11498	-1.92848	1.62999	0.01374	-1.85170	0.46737	-0.00258	0.81741	0.78040	-0.00432	0.76447
0.11768	-2.01565	1.62374	0.01150	-1.83195	0.47784	-0.00262	0.77903	0.78437	-0.00276	0.75564
0.12045	-2.07917	1.61787	0.00864	-1.81673	0.48827	-0.00266	0.75160	0.78677	-0.00162	0.74957
0.12328	-2.11251	1.61207	0.00518	-1.80644	0.49742	-0.00268	0.73782	0.78705	-0.00095	0.74651
0.12619	-2.11960	1.60595	0.00131	-1.79984	0.50327	-0.00268	0.73534	0.78562	-0.00061	0.74565
0.12916	-2.11081	1.59861	-0.00279	-1.79423	0.50545	-0.00268	0.73908	0.78324	-0.00053	0.74640
0.13219	-2.09486	1.58989	-0.00706	-1.78810	0.50590	-0.00267	0.74568	0.78036	-0.00062	0.74795
0.13531	-2.07341	1.58066	-0.01154	-1.78225	0.50723	-0.00266	0.75538	0.77688	-0.00070	0.74917
0.13849	-2.04686	1.57129	-0.01636	-1.77721	0.51035	-0.00265	0.76816	0.77278	-0.00064	0.74930
0.14175	-2.02198	1.56171	-0.02139	-1.77186	0.51437	-0.00265	0.78064	0.76867	-0.00040	0.74804
0.14508	-2.00591	1.55283	-0.02633	-1.76585	0.51870	-0.00264	0.79020	0.76508	0.00002	0.74534
0.14850	-2.00174	1.54602	-0.03089	-1.75999	0.52338	-0.00264	0.79612	0.76231	0.00064	0.74125
0.15199	-2.01224	1.54160	-0.03503	-1.75412	0.52795	-0.00264	0.79669	0.76067	0.00142	0.73623
0.15557	-2.04210	1.53926	-0.03876	-1.74706	0.53233	-0.00264	0.78933	0.76054	0.00227	0.73101
0.15923	-2.09466	1.53845	-0.04211	-1.73759	0.53761	-0.00265	0.77284	0.76201	0.00308	0.72624
0.16298	-2.17917	1.53800	-0.04503	-1.72278	0.54388	-0.00268	0.74347	0.76566	0.00372	0.72260
0.16681	-2.28930	1.53583	-0.04776	-1.70173	0.55045	-0.00272	0.70362	0.77103	0.00411	0.72066
0.17074	-2.41534	1.53067	-0.05050	-1.67485	0.55610	-0.00278	0.65722	0.77764	0.00419	0.72056
0.17475	-2.54526	1.52272	-0.05334	-1.64441	0.56047	-0.00283	0.60965	0.78474	0.00400	0.72213
0.17887	-2.67067	1.51338	-0.05622	-1.61333	0.56415	-0.00288	0.56489	0.79179	0.00365	0.72477
0.18307	-2.78619	1.50416	-0.05914	-1.58424	0.56762	-0.00292	0.52540	0.79831	0.00329	0.72755
0.18738	-2.88819	1.49589	-0.06225	-1.55874	0.57052	-0.00296	0.49239	0.80393	0.00308	0.72946
0.19179	-2.97539	1.48868	-0.06574	-1.53726	0.57207	-0.00297	0.46559	0.80848	0.00311	0.73012
0.19631	-3.04819	1.48213	-0.06970	-1.51935	0.57175	-0.00298	0.44397	0.81200	0.00331	0.72980
0.20092	-3.10776	1.47577	-0.07407	-1.50428	0.56949	-0.00296	0.42638	0.81460	0.00359	0.72904
0.20565	-3.15631	1.46924	-0.07874	-1.49126	0.56535	-0.00294	0.41151	0.81652	0.00380	0.72880
0.21049	-3.19327	1.46236	-0.08373	-1.48012	0.55972	-0.00290	0.39967	0.81759	0.00379	0.73006
0.21544	-3.21576	1.45546	-0.08910	-1.47155	0.55407	-0.00285	0.39245	0.81721	0.00345	0.73358
0.22051	-3.22279	1.44944	-0.09479	-1.46664	0.55079	-0.00281	0.39122	0.81494	0.00282	0.73918
0.22570	-3.21719	1.44539	-0.10063	-1.46603	0.55148	-0.00277	0.39604	0.81085	0.00214	0.74539
0.23101	-3.20355	1.44377	-0.10644	-1.46948	0.55610	-0.00274	0.40584	0.80541	0.00171	0.75000
0.23645	-3.18463	1.44431	-0.11216	-1.47625	0.56391	-0.00271	0.41987	0.79892	0.00178	0.75131
0.24201	-3.16485	1.44664	-0.11767	-1.48505	0.57461	-0.00269	0.43687	0.79184	0.00236	0.74919
0.24771	-3.14748	1.45050	-0.12285	-1.49492	0.58808	-0.00269	0.45600	0.78448	0.00326	0.74497
0.25354	-3.13588	1.45546	-0.12767	-1.50472	0.60322	-0.00270	0.47567	0.77731	0.00419	0.74066
0.25950	-3.12939	1.46122	-0.13216	-1.51432	0.61883	-0.00271	0.49560	0.77042	0.00496	0.73741
0.26561	-3.12851	1.46790	-0.13640	-1.52371	0.63403	-0.00273	0.51550	0.76390	0.00564	0.73487
0.27186	-3.13477	1.47547	-0.14052	-1.53261	0.64823	-0.00275	0.53459	0.75792	0.00642	0.73181
0.27826	-3.14933	1.48339	-0.14471	-1.54032	0.66089	-0.00277	0.55197	0.75253	0.00738	0.72759
0.28480	-3.17064	1.49069	-0.14909	-1.54619	0.67168	-0.00279	0.56748	0.74755	0.00841	0.72281
0.29150	-3.19895	1.49636	-0.15376	-1.54917	0.68036	-0.00281	0.58032	0.74292	0.00928	0.71866
0.29836	-3.23404	1.49985	-0.15876	-1.54880	0.68698	-0.00282	0.58972	0.73868	0.00980	0.71619

0.30539	-3.27319	1.50119	-0.16413	-1.54570	0.69177	-0.00283	0.59649	0.73460	0.00993	0.71577
0.31257	-3.31210	1.50070	-0.16993	-1.54108	0.69524	-0.00284	0.60230	0.73035	0.00975	0.71696
0.31993	-3.35254	1.49891	-0.17610	-1.53517	0.69757	-0.00283	0.60671	0.72611	0.00950	0.71848
0.32745	-3.39579	1.49665	-0.18237	-1.52850	0.69911	-0.00282	0.60954	0.72204	0.00939	0.71911
0.33517	-3.43997	1.49426	-0.18865	-1.52173	0.70049	-0.00280	0.61221	0.71794	0.00939	0.71917
0.34304	-3.48459	1.49197	-0.19474	-1.51498	0.70209	-0.00279	0.61545	0.71372	0.00935	0.71973
0.35112	-3.52918	1.48991	-0.20063	-1.50839	0.70437	-0.00277	0.62003	0.70924	0.00918	0.72142
0.35938	-3.56916	1.48824	-0.20634	-1.50296	0.70804	-0.00275	0.62774	0.70423	0.00890	0.72415
0.36784	-3.60019	1.48714	-0.21197	-1.49972	0.71347	-0.00273	0.64095	0.69825	0.00859	0.72748
0.37649	-3.62237	1.48639	-0.21752	-1.49843	0.71978	-0.00271	0.65948	0.69139	0.00829	0.73106
0.38536	-3.63479	1.48561	-0.22306	-1.49894	0.72622	-0.00269	0.68360	0.68367	0.00798	0.73492
0.39442	-3.63939	1.48468	-0.22854	-1.50071	0.73230	-0.00266	0.71254	0.67531	0.00769	0.73888
0.40370	-3.63628	1.48376	-0.23399	-1.50386	0.73799	-0.00262	0.74697	0.66632	0.00749	0.74244
0.41321	-3.62289	1.48295	-0.23945	-1.50899	0.74361	-0.00258	0.78846	0.65662	0.00740	0.74546
0.42292	-3.59793	1.48227	-0.24492	-1.51636	0.74961	-0.00253	0.83865	0.64613	0.00740	0.74800
0.43288	-3.56437	1.48185	-0.25032	-1.52551	0.75594	-0.00248	0.89770	0.63499	0.00753	0.74979
0.44307	-3.52432	1.48195	-0.25554	-1.53624	0.76276	-0.00242	0.96534	0.62352	0.00779	0.75081
0.45349	-3.48203	1.48248	-0.26058	-1.54762	0.76995	-0.00237	1.03896	0.61220	0.00811	0.75158
0.46417	-3.44435	1.48315	-0.26539	-1.55794	0.77701	-0.00232	1.11365	0.60157	0.00838	0.75266
0.47508	-3.41502	1.48375	-0.26994	-1.56622	0.78328	-0.00228	1.18580	0.59187	0.00854	0.75451
0.48626	-3.39366	1.48409	-0.27431	-1.57238	0.78798	-0.00224	1.25385	0.58314	0.00853	0.75754
0.49771	-3.38077	1.48411	-0.27857	-1.57632	0.79050	-0.00219	1.31572	0.57549	0.00833	0.76180
0.50942	-3.37882	1.48429	-0.28264	-1.57806	0.79092	-0.00215	1.36927	0.56904	0.00803	0.76674
0.52140	-3.38465	1.48527	-0.28652	-1.57889	0.78992	-0.00212	1.41747	0.56349	0.00776	0.77147
0.53367	-3.39888	1.48729	-0.29024	-1.57903	0.78743	-0.00208	1.45858	0.55898	0.00767	0.77505
0.54624	-3.42403	1.49023	-0.29387	-1.57802	0.78292	-0.00205	1.48792	0.55583	0.00784	0.77706
0.55910	-3.46367	1.49407	-0.29742	-1.57522	0.77598	-0.00202	1.50132	0.55429	0.00822	0.77769
0.57225	-3.52535	1.49893	-0.30072	-1.56930	0.76699	-0.00199	1.49341	0.55466	0.00870	0.77765
0.58569	-3.61135	1.50484	-0.30368	-1.55988	0.75705	-0.00197	1.46289	0.55700	0.00912	0.77807
0.59948	-3.72303	1.51078	-0.30632	-1.54595	0.74493	-0.00195	1.40782	0.56139	0.00948	0.77906
0.61357	-3.85473	1.51639	-0.30872	-1.52829	0.73041	-0.00193	1.33413	0.56748	0.00964	0.78141
0.62802	-4.00825	1.52170	-0.31081	-1.50657	0.71344	-0.00192	1.24403	0.57532	0.00966	0.78491
0.64280	-4.17697	1.52737	-0.31260	-1.48263	0.69712	-0.00191	1.14786	0.58422	0.00947	0.78993
0.65794	-4.35395	1.53342	-0.31425	-1.45793	0.68370	-0.00193	1.05365	0.59337	0.00916	0.79589
0.67340	-4.53813	1.53935	-0.31588	-1.43217	0.67161	-0.00195	0.96176	0.60279	0.00877	0.80248
0.68927	-4.73206	1.54501	-0.31757	-1.40470	0.66044	-0.00198	0.87033	0.61284	0.00833	0.80962
0.70547	-4.93683	1.55009	-0.31935	-1.37501	0.64995	-0.00202	0.77892	0.62372	0.00786	0.81694
0.72207	-5.15156	1.55486	-0.32128	-1.34346	0.64018	-0.00207	0.68985	0.63533	0.00742	0.82396
0.73910	-5.36997	1.55992	-0.32347	-1.31191	0.63038	-0.00212	0.60767	0.64715	0.00709	0.82989
0.75649	-5.58263	1.56584	-0.32597	-1.28288	0.62179	-0.00218	0.53750	0.65814	0.00694	0.83393
0.77429	-5.78700	1.57248	-0.32880	-1.25684	0.61472	-0.00223	0.47921	0.66781	0.00703	0.83558
0.79246	-5.98104	1.57942	-0.33200	-1.23367	0.60923	-0.00229	0.43189	0.67579	0.00736	0.83444
0.81116	-6.16590	1.58649	-0.33567	-1.21302	0.60439	-0.00234	0.39385	0.68191	0.00798	0.83041
0.83022	-6.33970	1.59374	-0.33966	-1.19530	0.60058	-0.00239	0.36468	0.68573	0.00890	0.82375
0.84976	-6.50676	1.60105	-0.34389	-1.17947	0.59698	-0.00243	0.34197	0.68749	0.01005	0.81507
0.86972	-6.66885	1.60831	-0.34813	-1.16496	0.59328	-0.00246	0.32420	0.68737	0.01132	0.80542
0.89023	-6.82753	1.61564	-0.35230	-1.15162	0.59007	-0.00249	0.31074	0.68540	0.01258	0.79581
0.91116	-6.97817	1.62290	-0.35639	-1.14011	0.58787	-0.00252	0.30246	0.68120	0.01376	0.78727
0.93257	-7.11863	1.63000	-0.36039	-1.13084	0.58700	-0.00254	0.30002	0.67437	0.01483	0.78001
0.95456	-7.24774	1.63689	-0.36435	-1.12402	0.58736	-0.00256	0.30432	0.66454	0.01581	0.77389
0.97704	-7.36373	1.64356	-0.36829	-1.11993	0.58873	-0.00257	0.31665	0.65136	0.01674	0.76861
1.00000	-7.46860	1.65020	-0.37219	-1.11824	0.59111	-0.00258	0.33771	0.63500	0.01770	0.76360
1.02354	-7.56665	1.65711	-0.37591	-1.11835	0.59446	-0.00258	0.36773	0.61598	0.01878	0.75813
1.04767	-7.65892	1.66439	-0.37938	-1.12018	0.59954	-0.00258	0.40797	0.59462	0.02001	0.75191
1.07227	-7.74798	1.67210	-0.38240	-1.12324	0.60624	-0.00258	0.45809	0.57187	0.02138	0.74481
1.09745	-7.83506	1.68010	-0.38500	-1.12718	0.61360	-0.00258	0.51828	0.54834	0.02287	0.73704
1.12334	-7.91899	1.68804	-0.38726	-1.13191	0.62152	-0.00257	0.59015	0.52416	0.02438	0.72932
1.14982	-7.99987	1.69576	-0.38916	-1.13713	0.62981	-0.00256	0.67362	0.49993	0.02583	0.72208
1.17675	-8.07704	1.70320	-0.39075	-1.14274	0.63858	-0.00256	0.76925	0.47600	0.02716	0.71576
1.20453	-8.15146	1.71049	-0.39202	-1.14892	0.64775	-0.00255	0.88004	0.45208	0.02830	0.71059
1.23289	-8.22383	1.71780	-0.39288	-1.15556	0.65745	-0.00254	1.00572	0.42865	0.02922	0.70656
1.26183	-8.29476	1.72531	-0.39334	-1.16265	0.66780	-0.00253	1.14773	0.40577	0.02994	0.70354
1.29149	-8.36650	1.73321	-0.39338	-1.16999	0.67822	-0.00253	1.30626	0.38359	0.03052	0.70115
1.32188	-8.44029	1.74156	-0.39306	-1.17732	0.68839	-0.00251	1.48038	0.36233	0.03101	0.69922
1.35300	-8.51693	1.75031	-0.39238	-1.18439	0.69813	-0.00250	1.66818	0.34215	0.03142	0.69773
1.38485	-8.59662	1.75931	-0.39143	-1.19097	0.70737	-0.00249	1.86729	0.32315	0.03177	0.69687
1.41743	-8.67869	1.76836	-0.39026	-1.19698	0.71636	-0.00248	2.07610	0.30535	0.03203	0.69695
1.45075	-8.76230	1.77733	-0.38890	-1.20244	0.72504	-0.00247	2.29339	0.28868	0.03219	0.69809
1.48500	-8.84833	1.78617	-0.38735	-1.20724	0.73319	-0.00246	2.51765	0.27305	0.03226	0.70026
1.51999	-8.93646	1.79481	-0.38565	-1.21126	0.74067	-0.00245	2.74531	0.25851	0.03226	0.70336
1.55569	-9.02632	1.80332	-0.38379	-1.21467	0.74782	-0.00245	2.97603	0.24494	0.03217	0.70733
1.59236	-9.11919	1.81187	-0.38174	-1.21750	0.75480	-0.00244	3.20879	0.23224	0.03201	0.71213
1.62973	-9.21476	1.82057	-0.37950	-1.21980	0.76168	-0.00243	3.44073	0.22045	0.03177	0.71767
1.66806	-9.31431	1.82959	-0.37705	-1.22159	0.76848	-0.00243	3.67080	0.20950	0.03145	0.72392
1.70736	-9.41862	1.83902	-0.37439	-1.22276	0.77508	-0.00243	3.89551	0.19940	0.03107	0.73082
1.74764	-9.52823	1.84891	-0.37153	-1.22325	0.78134	-0.00243	4.11100	0.19016	0.03061	0.73835
1.78859	-9.64220	1.85914	-0.36850	-1.22303	0.78714	-0.00243	4.31313	0.18183	0.03011	0.74637
1.83083	-9.76174	1.86979	-0.36531	-1.22211	0.79255	-0.00243	4.50339	0.17423	0.02955	0.75497
1.87371	-9.88454	1.88060	-0.36203	-1.22050	0.79734	-0.00243	4.67690	0.16744	0.02898	0.76393
1.91791	-10.01202	1.89163	-0.35865	-1.21816	0.80152	-0.00243	4.83434	0.16134	0.02839	0.77327
1.96309	-10.14249	1.90270	-0.35523	-1.21514	0.80504	-0.00243	4.97339	0.15593	0.02780	0.78278

2.00924	-10.27510	1.91368	-0.35179	-1.21153	0.80793	-0.00243	5.09444	0.15115	0.02723	0.79228
2.05634	-10.40916	1.92455	-0.34836	-1.20740	0.81025	-0.00243	5.19747	0.14698	0.02667	0.80160
2.10482	-10.54534	1.93536	-0.34490	-1.20282	0.81206	-0.00243	5.28381	0.14333	0.02614	0.81064
2.15424	-10.68203	1.94603	-0.34147	-1.19791	0.81342	-0.00244	5.35351	0.14021	0.02564	0.81911
2.20507	-10.82036	1.95670	-0.33802	-1.19269	0.81442	-0.00244	5.40784	0.13755	0.02517	0.82698
2.25683	-10.95885	1.96733	-0.33458	-1.18731	0.81512	-0.00244	5.44707	0.13538	0.02473	0.83423
2.31000	-11.09869	1.97808	-0.33109	-1.18182	0.81563	-0.00244	5.47297	0.13364	0.02430	0.84103
2.36463	-11.23972	1.98902	-0.32755	-1.17631	0.81604	-0.00244	5.48703	0.13232	0.02388	0.84750
2.42014	-11.38047	2.00010	-0.32398	-1.17091	0.81641	-0.00244	5.48993	0.13141	0.02346	0.85371
2.47709	-11.52220	2.01144	-0.32034	-1.16562	0.81681	-0.00244	5.48273	0.13090	0.02304	0.85992
2.53550	-11.66474	2.02309	-0.31662	-1.16050	0.81728	-0.00244	5.46667	0.13076	0.02260	0.86632
2.59471	-11.80637	2.03492	-0.31288	-1.15565	0.81787	-0.00244	5.44311	0.13098	0.02215	0.87297
2.65604	-11.94983	2.04713	-0.30900	-1.15100	0.81862	-0.00244	5.41300	0.13153	0.02168	0.88011
2.71887	-12.09341	2.05960	-0.30506	-1.14660	0.81952	-0.00244	5.37753	0.13237	0.02118	0.88771
2.78242	-12.23520	2.07214	-0.30111	-1.14253	0.82058	-0.00244	5.33834	0.13345	0.02067	0.89574
2.84819	-12.37796	2.08491	-0.29703	-1.13869	0.82183	-0.00244	5.29612	0.13475	0.02015	0.90443
2.91545	-12.52035	2.09785	-0.29294	-1.13507	0.82321	-0.00244	5.25083	0.13624	0.01961	0.91372
2.98329	-12.65954	2.11055	-0.28882	-1.13178	0.82472	-0.00244	5.20540	0.13786	0.01908	0.92335
3.05344	-12.79946	2.12347	-0.28468	-1.12866	0.82637	-0.00244	5.15814	0.13962	0.01855	0.93332
3.12598	-12.93931	2.13640	-0.28041	-1.12582	0.82820	-0.00244	5.11096	0.14150	0.01803	0.94340
3.19898	-13.07563	2.14907	-0.27623	-1.12320	0.83010	-0.00244	5.06432	0.14342	0.01754	0.95302
3.27439	-13.21175	2.16173	-0.27195	-1.12084	0.83214	-0.00243	5.01821	0.14544	0.01707	0.96216
3.35121	-13.34564	2.17421	-0.26772	-1.11868	0.83427	-0.00243	4.97308	0.14749	0.01662	0.97053
3.43053	-13.47912	2.18664	-0.26337	-1.11679	0.83655	-0.00243	4.92891	0.14962	0.01619	0.97850
3.51124	-13.61035	2.19890	-0.25911	-1.11506	0.83888	-0.00243	4.88552	0.15177	0.01578	0.98621
3.59324	-13.73875	2.21081	-0.25476	-1.11365	0.84131	-0.00243	4.84416	0.15397	0.01537	0.99403
3.67782	-13.86773	2.22291	-0.25051	-1.11227	0.84378	-0.00242	4.80153	0.15622	0.01496	1.00242
3.76506	-13.99484	2.23457	-0.24602	-1.11123	0.84638	-0.00242	4.76134	0.15852	0.01453	1.01185
3.85356	-14.12216	2.24661	-0.24177	-1.11013	0.84894	-0.00242	4.71877	0.16085	0.01411	1.02201
3.94477	-14.24630	2.25786	-0.23725	-1.10938	0.85161	-0.00242	4.68031	0.16318	0.01366	1.03296
4.03714	-14.37159	2.26969	-0.23291	-1.10856	0.85425	-0.00241	4.63909	0.16555	0.01323	1.04413
4.13223	-14.49459	2.28095	-0.22848	-1.10791	0.85691	-0.00241	4.60084	0.16786	0.01279	1.05546
4.23012	-14.61795	2.29224	-0.22384	-1.10746	0.85967	-0.00240	4.56317	0.17023	0.01234	1.06664
4.32900	-14.74203	2.30403	-0.21955	-1.10679	0.86229	-0.00240	4.52332	0.17255	0.01192	1.07697
4.43066	-14.86091	2.31452	-0.21482	-1.10658	0.86505	-0.00240	4.49019	0.17479	0.01149	1.08682
4.53515	-14.98524	2.32628	-0.21024	-1.10618	0.86777	-0.00239	4.45245	0.17711	0.01108	1.09598
4.64253	-15.10816	2.33770	-0.20576	-1.10575	0.87044	-0.00239	4.41685	0.17931	0.01069	1.10449
4.75059	-15.22452	2.34785	-0.20084	-1.10583	0.87322	-0.00238	4.38785	0.18143	0.01028	1.11244
4.86145	-15.34878	2.35988	-0.19632	-1.10549	0.87588	-0.00238	4.35210	0.18362	0.00991	1.11971
4.97760	-15.47061	2.37098	-0.19165	-1.10528	0.87857	-0.00237	4.32117	0.18565	0.00954	1.12667
5.09424	-15.58616	2.38090	-0.18652	-1.10558	0.88137	-0.00237	4.29638	0.18762	0.00915	1.13323
5.21376	-15.71154	2.39316	-0.18191	-1.10533	0.88403	-0.00236	4.26356	0.18966	0.00881	1.13924
5.33618	-15.83112	2.40413	-0.17735	-1.10516	0.88661	-0.00236	4.23610	0.19147	0.00847	1.14498
5.46150	-15.94318	2.41326	-0.17205	-1.10568	0.88938	-0.00235	4.21699	0.19321	0.00811	1.15079
5.58971	-16.06658	2.42509	-0.16721	-1.10567	0.89205	-0.00235	4.18938	0.19506	0.00777	1.15633
5.72082	-16.19014	2.43709	-0.16288	-1.10532	0.89452	-0.00234	4.16123	0.19676	0.00747	1.16178
5.85823	-16.30027	2.44553	-0.15750	-1.10596	0.89724	-0.00233	4.14686	0.19827	0.00712	1.16787
5.99520	-16.41574	2.45561	-0.15227	-1.10643	0.89991	-0.00233	4.12795	0.19987	0.00678	1.17390
6.13497	-16.54275	2.46855	-0.14792	-1.10609	0.90237	-0.00232	4.10018	0.20149	0.00650	1.17973
6.28141	-16.65779	2.47840	-0.14327	-1.10618	0.90479	-0.00231	4.08210	0.20285	0.00621	1.18600
6.42674	-16.75901	2.48544	-0.13781	-1.10713	0.90733	-0.00231	4.07354	0.20412	0.00586	1.19260
6.57895	-16.87743	2.49610	-0.13265	-1.10753	0.90989	-0.00230	4.05557	0.20557	0.00555	1.19927
6.73401	-17.00698	2.50958	-0.12852	-1.10707	0.91221	-0.00229	4.02961	0.20697	0.00531	1.20566
6.89180	-17.11359	2.51792	-0.12401	-1.10733	0.91442	-0.00229	4.01710	0.20806	0.00504	1.21243
7.05716	-17.21174	2.52376	-0.11831	-1.10849	0.91686	-0.00228	4.01252	0.20918	0.00469	1.21984
7.22022	-17.32228	2.53310	-0.11328	-1.10903	0.91919	-0.00228	3.99924	0.21037	0.00440	1.22665
7.39098	-17.45217	2.54667	-0.10913	-1.10865	0.92143	-0.00227	3.97626	0.21160	0.00419	1.23299
7.56430	-17.56576	2.55682	-0.10531	-1.10840	0.92340	-0.00226	3.96045	0.21254	0.00398	1.23905
7.73994	-17.64906	2.55998	-0.10003	-1.10966	0.92543	-0.00226	3.96060	0.21340	0.00366	1.24544
7.92393	-17.74947	2.56661	-0.09470	-1.11057	0.92760	-0.00225	3.95387	0.21441	0.00336	1.25137
8.11030	-17.86452	2.57687	-0.09000	-1.11088	0.92973	-0.00224	3.94007	0.21545	0.00312	1.25650
8.29876	-17.99617	2.59137	-0.08658	-1.11014	0.93170	-0.00223	3.91853	0.21635	0.00298	1.26061
8.49618	-18.09746	2.59867	-0.08278	-1.11022	0.93341	-0.00222	3.90974	0.21705	0.00278	1.26502
8.69565	-18.16945	2.59918	-0.07742	-1.11176	0.93514	-0.00222	3.91276	0.21783	0.00245	1.27003
8.90472	-18.26679	2.60509	-0.07232	-1.11263	0.93703	-0.00221	3.90703	0.21871	0.00217	1.27465
9.11577	-18.37377	2.61351	-0.06767	-1.11312	0.93892	-0.00221	3.89750	0.21955	0.00193	1.27893
9.32836	-18.50674	2.62834	-0.06418	-1.11252	0.94084	-0.00219	3.87978	0.22026	0.00182	1.28250
9.54198	-18.62202	2.63969	-0.06151	-1.11179	0.94236	-0.00218	3.86769	0.22064	0.00173	1.28614
9.76563	-18.68232	2.63794	-0.05693	-1.11319	0.94362	-0.00218	3.87020	0.22137	0.00143	1.29166
10.00000	-18.75511	2.63837	-0.05171	-1.11458	0.94506	-0.00218	3.87030	0.22216	0.00111	1.29793

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Median stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 61 - 152 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.92630	3.39156	-0.03666	-1.65683	1.00184	-0.00101	0.98681	0.47421	-0.01680	0.33452
PGV	3.49075	1.87753	-0.13257	-2.67595	1.38429	-0.00131	7.08669	0.34946	-0.01064	0.42092
PGA	3.99055	1.67771	-0.06457	-3.23231	1.12504	-0.00097	7.61090	0.43703	-0.03702	0.78800
0.01000	4.90616	1.69392	-0.06495	-3.40705	1.13653	-0.00077	8.90526	0.42168	-0.01839	0.74814
0.01024	4.89170	1.69660	-0.06413	-3.40538	1.12946	-0.00076	8.86480	0.42322	-0.01844	0.74854
0.01048	4.88179	1.69924	-0.06333	-3.40452	1.12261	-0.00076	8.83024	0.42467	-0.01850	0.74899
0.01072	4.87685	1.70184	-0.06254	-3.40454	1.11596	-0.00075	8.80220	0.42601	-0.01857	0.74950
0.01097	4.87672	1.70441	-0.06176	-3.40543	1.10949	-0.00074	8.78041	0.42725	-0.01867	0.75009
0.01123	4.88115	1.70696	-0.06099	-3.40714	1.10321	-0.00073	8.76443	0.42840	-0.01877	0.75072
0.01150	4.89024	1.70950	-0.06022	-3.40970	1.09712	-0.00071	8.75435	0.42946	-0.01889	0.75138
0.01177	4.90480	1.71205	-0.05945	-3.41324	1.09119	-0.00070	8.75135	0.43042	-0.01902	0.75205
0.01205	4.92554	1.71460	-0.05869	-3.41790	1.08539	-0.00069	8.75659	0.43126	-0.01915	0.75276
0.01233	4.95084	1.71714	-0.05792	-3.42336	1.07965	-0.00067	8.76768	0.43203	-0.01930	0.75351
0.01262	4.97930	1.71968	-0.05715	-3.42937	1.07397	-0.00065	8.78247	0.43273	-0.01945	0.75423
0.01292	5.01122	1.72223	-0.05638	-3.43602	1.06843	-0.00064	8.80126	0.43338	-0.01960	0.75493
0.01322	5.04623	1.72478	-0.05560	-3.44323	1.06301	-0.00062	8.82339	0.43398	-0.01975	0.75564
0.01353	5.08540	1.72735	-0.05483	-3.45119	1.05769	-0.00060	8.85054	0.43451	-0.01992	0.75640
0.01385	5.12785	1.72992	-0.05404	-3.45973	1.05241	-0.00058	8.88159	0.43499	-0.02009	0.75724
0.01417	5.17646	1.73251	-0.05325	-3.46937	1.04722	-0.00056	8.92079	0.43536	-0.02028	0.75815
0.01451	5.23414	1.73516	-0.05245	-3.48064	1.04219	-0.00054	8.97236	0.43558	-0.02047	0.75910
0.01485	5.29856	1.73786	-0.05163	-3.49313	1.03733	-0.00052	9.03276	0.43569	-0.02065	0.76007
0.01520	5.36738	1.74062	-0.05079	-3.50640	1.03258	-0.00050	9.09833	0.43575	-0.02084	0.76109
0.01556	5.43833	1.74342	-0.04993	-3.52007	1.02793	-0.00047	9.16554	0.43580	-0.02103	0.76219
0.01592	5.50999	1.74624	-0.04906	-3.53384	1.02327	-0.00045	9.23247	0.43586	-0.02124	0.76344
0.01630	5.58308	1.74904	-0.04818	-3.54779	1.01841	-0.00043	9.30054	0.43593	-0.02147	0.76498
0.01668	5.65972	1.75185	-0.04729	-3.56230	1.01323	-0.00040	9.37265	0.43596	-0.02174	0.76680
0.01707	5.74220	1.75469	-0.04641	-3.57779	1.00780	-0.00038	9.45209	0.43593	-0.02203	0.76879
0.01748	5.82985	1.75757	-0.04552	-3.59417	1.00221	-0.00035	9.53778	0.43585	-0.02232	0.77080
0.01789	5.92020	1.76050	-0.04459	-3.61102	0.99651	-0.00032	9.62575	0.43577	-0.02259	0.77272
0.01831	6.01305	1.76350	-0.04361	-3.62833	0.99077	-0.00029	9.71536	0.43569	-0.02286	0.77467
0.01874	6.10813	1.76659	-0.04258	-3.64606	0.98505	-0.00026	9.80620	0.43562	-0.02314	0.77672
0.01918	6.20427	1.76972	-0.04153	-3.66399	0.97938	-0.00023	9.89696	0.43556	-0.02344	0.77883
0.01963	6.29522	1.77280	-0.04047	-3.68093	0.97368	-0.00021	9.97910	0.43560	-0.02376	0.78107
0.02009	6.37321	1.77580	-0.03939	-3.69548	0.96790	-0.00018	10.04139	0.43587	-0.02409	0.78341
0.02057	6.44113	1.77878	-0.03829	-3.70816	0.96204	-0.00016	10.08766	0.43634	-0.02440	0.78562
0.02105	6.51326	1.78186	-0.03717	-3.72156	0.95606	-0.00014	10.13846	0.43678	-0.02469	0.78766
0.02154	6.59968	1.78507	-0.03604	-3.73744	0.95005	-0.00012	10.20906	0.43703	-0.02498	0.78973
0.02205	6.69721	1.78834	-0.03493	-3.75517	0.94409	-0.00009	10.29638	0.43712	-0.02527	0.79181
0.02257	6.79905	1.79158	-0.03382	-3.77350	0.93810	-0.00007	10.39126	0.43714	-0.02553	0.79368
0.02310	6.90178	1.79481	-0.03268	-3.79187	0.93194	-0.00004	10.48688	0.43717	-0.02575	0.79526
0.02364	7.00286	1.79808	-0.03151	-3.80989	0.92542	-0.00001	10.57695	0.43729	-0.02597	0.79680
0.02420	7.10035	1.80132	-0.03033	-3.82720	0.91868	0.00001	10.65877	0.43753	-0.02623	0.79871
0.02477	7.19572	1.80448	-0.02918	-3.84404	0.91209	0.00003	10.73724	0.43779	-0.02656	0.80103
0.02535	7.29297	1.80752	-0.02808	-3.86106	0.90580	0.00006	10.82096	0.43796	-0.02695	0.80373
0.02595	7.38823	1.81047	-0.02701	-3.87750	0.89927	0.00008	10.90453	0.43814	-0.02737	0.80677
0.02656	7.46616	1.81337	-0.02593	-3.89063	0.89163	0.00010	10.96217	0.43866	-0.02781	0.80989
0.02719	7.52095	1.81631	-0.02479	-3.89949	0.88280	0.00011	10.98221	0.43966	-0.02823	0.81304
0.02783	7.54938	1.81934	-0.02351	-3.90370	0.87329	0.00012	10.95794	0.44118	-0.02864	0.81614
0.02848	7.54760	1.82240	-0.02208	-3.90265	0.86354	0.00012	10.88491	0.44324	-0.02902	0.81911
0.02915	7.53579	1.82552	-0.02060	-3.89987	0.85410	0.00012	10.79693	0.44546	-0.02939	0.82209
0.02984	7.54580	1.82886	-0.01916	-3.90097	0.84535	0.00012	10.74262	0.44734	-0.02980	0.82538
0.03054	7.56716	1.83236	-0.01773	-3.90415	0.83717	0.00013	10.70583	0.44903	-0.03023	0.82888
0.03126	7.56492	1.83589	-0.01618	-3.90326	0.82927	0.00012	10.63323	0.45110	-0.03061	0.83217
0.03199	7.51983	1.83935	-0.01445	-3.89490	0.82123	0.00011	10.49652	0.45388	-0.03084	0.83458
0.03275	7.43730	1.84271	-0.01263	-3.87987	0.81280	0.00008	10.30799	0.45729	-0.03091	0.83591
0.03352	7.33073	1.84599	-0.01075	-3.86043	0.80387	0.00006	10.08919	0.46112	-0.03090	0.83688
0.03430	7.19170	1.84910	-0.00877	-3.83511	0.79405	0.00002	9.82724	0.46555	-0.03090	0.83790
0.03511	7.04150	1.85210	-0.00674	-3.80758	0.78323	-0.00001	9.55383	0.47027	-0.03096	0.83940
0.03594	6.91187	1.85510	-0.00480	-3.78337	0.77195	-0.00004	9.31494	0.47470	-0.03109	0.84137
0.03678	6.80000	1.85797	-0.00303	-3.76206	0.76064	-0.00007	9.10615	0.47882	-0.03118	0.84306
0.03765	6.69490	1.86060	-0.00139	-3.74174	0.74918	-0.00009	8.91005	0.48281	-0.03120	0.84434
0.03854	6.58996	1.86295	0.00020	-3.72117	0.73775	-0.00011	8.71800	0.48679	-0.03123	0.84576
0.03944	6.48351	1.86508	0.00176	-3.70011	0.72747	-0.00014	8.53269	0.49067	-0.03133	0.84758
0.04037	6.38520	1.86722	0.00332	-3.68046	0.71966	-0.00017	8.37006	0.49417	-0.03145	0.84955
0.04132	6.30568	1.86955	0.00471	-3.66422	0.71335	-0.00020	8.23806	0.49722	-0.03151	0.85112
0.04229	6.22483	1.87202	0.00589	-3.64786	0.70643	-0.00023	8.10138	0.50042	-0.03157	0.85264
0.04329	6.10413	1.87448	0.00715	-3.62460	0.69860	-0.00027	7.91089	0.50451	-0.03172	0.85472
0.04431	5.94326	1.87698	0.00866	-3.59440	0.69057	-0.00032	7.67271	0.50944	-0.03190	0.85695
0.04535	5.75564	1.87934	0.01040	-3.55941	0.68241	-0.00037	7.40871	0.51492	-0.03200	0.85854

0.04642	5.55999	1.88113	0.01214	-3.52259	0.67434	-0.00042	7.14580	0.52048	-0.03196	0.85912
0.04751	5.39928	1.88254	0.01368	-3.49154	0.66737	-0.00047	6.93529	0.52518	-0.03187	0.85913
0.04863	5.25044	1.88405	0.01522	-3.46263	0.66131	-0.00052	6.74351	0.52965	-0.03185	0.85961
0.04977	5.05004	1.88589	0.01708	-3.42511	0.65454	-0.00058	6.49196	0.53541	-0.03194	0.86081
0.05094	4.80319	1.88797	0.01924	-3.37992	0.64750	-0.00064	6.19097	0.54237	-0.03205	0.86221
0.05214	4.54305	1.88980	0.02161	-3.33255	0.64222	-0.00072	5.88490	0.54959	-0.03222	0.86393
0.05337	4.27636	1.89108	0.02408	-3.28387	0.63820	-0.00079	5.58077	0.55698	-0.03250	0.86643
0.05462	3.99342	1.89187	0.02651	-3.23205	0.63288	-0.00087	5.26505	0.56501	-0.03279	0.86917
0.05591	3.70885	1.89230	0.02870	-3.17948	0.62516	-0.00094	4.95546	0.57345	-0.03306	0.87186
0.05722	3.45845	1.89273	0.03053	-3.13256	0.61671	-0.00100	4.69172	0.58122	-0.03336	0.87494
0.05857	3.26052	1.89325	0.03196	-3.09471	0.60990	-0.00105	4.49133	0.58756	-0.03374	0.87869
0.05995	3.08036	1.89332	0.03320	-3.05968	0.60497	-0.00110	4.31681	0.59325	-0.03413	0.88264
0.06136	2.86790	1.89266	0.03477	-3.01883	0.60171	-0.00116	4.11754	0.59972	-0.03447	0.88641
0.06280	2.63923	1.89165	0.03670	-2.97512	0.60091	-0.00123	3.91131	0.60654	-0.03487	0.89071
0.06428	2.45347	1.89083	0.03841	-2.93871	0.60176	-0.00130	3.75222	0.61211	-0.03525	0.89492
0.06579	2.29133	1.89011	0.03981	-2.90619	0.60110	-0.00136	3.61603	0.61723	-0.03533	0.89714
0.06734	2.08427	1.88910	0.04135	-2.86570	0.59639	-0.00142	3.43800	0.62422	-0.03512	0.89735
0.06893	1.83864	1.88801	0.04297	-2.81860	0.58782	-0.00147	3.22677	0.63301	-0.03471	0.89619
0.07055	1.61782	1.88702	0.04418	-2.77590	0.57891	-0.00152	3.04299	0.64121	-0.03415	0.89399
0.07221	1.44844	1.88580	0.04477	-2.74201	0.57321	-0.00156	2.91102	0.64737	-0.03363	0.89193
0.07391	1.28085	1.88340	0.04517	-2.70782	0.56991	-0.00161	2.78670	0.65312	-0.03329	0.89086
0.07565	1.07921	1.87982	0.04584	-2.66710	0.56644	-0.00166	2.63779	0.66016	-0.03303	0.89018
0.07743	0.87316	1.87580	0.04670	-2.62519	0.56143	-0.00171	2.48735	0.66774	-0.03280	0.88957
0.07925	0.70139	1.87172	0.04728	-2.58870	0.55462	-0.00174	2.36513	0.67441	-0.03258	0.88882
0.08111	0.57360	1.86730	0.04719	-2.55909	0.54677	-0.00177	2.27711	0.67954	-0.03222	0.88702
0.08302	0.46983	1.86213	0.04652	-2.53276	0.53894	-0.00179	2.20702	0.68376	-0.03168	0.88408
0.08498	0.35530	1.85577	0.04567	-2.50367	0.53165	-0.00182	2.12899	0.68841	-0.03101	0.88056
0.08697	0.21865	1.84788	0.04488	-2.46977	0.52516	-0.00184	2.03557	0.69397	-0.03034	0.87725
0.08902	0.08907	1.83942	0.04396	-2.43691	0.52040	-0.00187	1.94872	0.69916	-0.02982	0.87513
0.09112	-0.01194	1.83196	0.04273	-2.41002	0.51846	-0.00190	1.88576	0.70285	-0.02949	0.87437
0.09326	-0.10917	1.82518	0.04142	-2.38444	0.51993	-0.00194	1.83288	0.70581	-0.02919	0.87421
0.09545	-0.22976	1.81791	0.04018	-2.35454	0.52326	-0.00199	1.76996	0.70937	-0.02885	0.87413
0.09770	-0.35124	1.81012	0.03868	-2.32436	0.52564	-0.00204	1.70483	0.71319	-0.02846	0.87400
0.10000	-0.44216	1.80284	0.03674	-2.30022	0.52733	-0.00207	1.65582	0.71599	-0.02810	0.87428
0.10235	-0.48829	1.79580	0.03429	-2.28449	0.53165	-0.00210	1.63338	0.71662	-0.02788	0.87544
0.10476	-0.50726	1.78839	0.03142	-2.27363	0.53842	-0.00212	1.62710	0.71571	-0.02766	0.87663
0.10723	-0.52615	1.78072	0.02834	-2.26282	0.54427	-0.00214	1.61962	0.71487	-0.02725	0.87655
0.10975	-0.57166	1.77312	0.02554	-2.24738	0.54728	-0.00216	1.59509	0.71555	-0.02670	0.87562
0.11233	-0.65713	1.76544	0.02329	-2.22469	0.54643	-0.00218	1.54536	0.71856	-0.02629	0.87556
0.11498	-0.75972	1.75771	0.02123	-2.19878	0.54161	-0.00219	1.48397	0.72294	-0.02613	0.87714
0.11768	-0.85104	1.75052	0.01898	-2.17500	0.53455	-0.00219	1.42948	0.72713	-0.02597	0.87870
0.12045	-0.93193	1.74338	0.01656	-2.15276	0.52744	-0.00219	1.38301	0.73081	-0.02549	0.87791
0.12328	-1.02343	1.73540	0.01419	-2.12773	0.52230	-0.00220	1.33306	0.73478	-0.02466	0.87444
0.12619	-1.13239	1.72682	0.01192	-2.09932	0.51968	-0.00222	1.27462	0.73954	-0.02357	0.86892
0.12916	-1.25178	1.71825	0.00955	-2.06969	0.51795	-0.00224	1.20961	0.74510	-0.02220	0.86132
0.13219	-1.36032	1.70943	0.00684	-2.04242	0.51760	-0.00226	1.14977	0.75017	-0.02067	0.85249
0.13531	-1.43246	1.69966	0.00354	-2.02117	0.52106	-0.00227	1.10983	0.75281	-0.01928	0.84449
0.13849	-1.46777	1.68914	-0.00034	-2.00591	0.52808	-0.00229	1.09019	0.75284	-0.01824	0.83865
0.14175	-1.48871	1.67921	-0.00446	-1.99366	0.53633	-0.00231	1.07980	0.75176	-0.01763	0.83528
0.14508	-1.51820	1.67121	-0.00838	-1.98137	0.54361	-0.00232	1.06750	0.75122	-0.01735	0.83372
0.14850	-1.56621	1.66508	-0.01198	-1.96714	0.54906	-0.00235	1.04802	0.75193	-0.01726	0.83320
0.15199	-1.63209	1.66000	-0.01541	-1.95034	0.55368	-0.00237	1.02151	0.75378	-0.01717	0.83270
0.15557	-1.70856	1.65511	-0.01895	-1.93153	0.55831	-0.00240	0.99097	0.75630	-0.01677	0.83042
0.15923	-1.79375	1.64988	-0.02266	-1.91083	0.56178	-0.00243	0.95555	0.75961	-0.01577	0.82447
0.16298	-1.89598	1.64370	-0.02637	-1.88658	0.56158	-0.00245	0.90941	0.76458	-0.01420	0.81509
0.16681	-2.01717	1.63610	-0.02994	-1.85821	0.55719	-0.00246	0.85203	0.77148	-0.01245	0.80484
0.17074	-2.14880	1.62791	-0.03318	-1.82792	0.55096	-0.00246	0.79056	0.77951	-0.01088	0.79579
0.17475	-2.26175	1.61929	-0.03653	-1.80105	0.54598	-0.00245	0.73911	0.78629	-0.00957	0.78846
0.17887	-2.34494	1.61036	-0.04030	-1.77940	0.54354	-0.00245	0.70215	0.79073	-0.00853	0.78280
0.18307	-2.39806	1.60137	-0.04463	-1.76310	0.54469	-0.00244	0.67931	0.79257	-0.00766	0.77827
0.18738	-2.42223	1.59317	-0.04943	-1.75274	0.55098	-0.00244	0.67060	0.79161	-0.00684	0.77410
0.19179	-2.41275	1.58698	-0.05452	-1.75028	0.56377	-0.00245	0.67925	0.78727	-0.00607	0.77019
0.19631	-2.37709	1.58341	-0.05951	-1.75477	0.58145	-0.00247	0.70349	0.78024	-0.00549	0.76753
0.20092	-2.32070	1.58139	-0.06452	-1.76408	0.59976	-0.00249	0.74031	0.77146	-0.00522	0.76684
0.20565	-2.26656	1.58034	-0.06944	-1.77350	0.61338	-0.00249	0.77817	0.76330	-0.00510	0.76707
0.21049	-2.23624	1.57969	-0.07412	-1.77875	0.61977	-0.00249	0.80490	0.75767	-0.00494	0.76688
0.21544	-2.24352	1.57837	-0.07843	-1.77648	0.61975	-0.00247	0.81238	0.75540	-0.00467	0.76595
0.22051	-2.29065	1.57577	-0.08232	-1.76583	0.61587	-0.00246	0.79946	0.75636	-0.00432	0.76469
0.22570	-2.36828	1.57206	-0.08600	-1.74862	0.61041	-0.00245	0.77157	0.75966	-0.00400	0.76401
0.23101	-2.46582	1.56680	-0.08979	-1.72632	0.60385	-0.00244	0.73432	0.76452	-0.00386	0.76487
0.23645	-2.57748	1.55882	-0.09406	-1.69885	0.59543	-0.00244	0.69047	0.77051	-0.00394	0.76761
0.24201	-2.69661	1.54798	-0.09895	-1.66732	0.58502	-0.00242	0.64349	0.77714	-0.00415	0.77131
0.24771	-2.81765	1.53574	-0.10427	-1.63426	0.57359	-0.00241	0.59714	0.78395	-0.00427	0.77432
0.25354	-2.93313	1.52425	-0.10963	-1.60314	0.56351	-0.00239	0.55580	0.79022	-0.00418	0.77577
0.25950	-3.04104	1.51480	-0.11475	-1.57565	0.55622	-0.00238	0.52045	0.79576	-0.00381	0.77504
0.26561	-3.13960	1.50779	-0.11955	-1.55253	0.55197	-0.00238	0.49084	0.80051	-0.00313	0.77217
0.27186	-3.22221	1.50330	-0.12426	-1.53501	0.55130	-0.00237	0.46897	0.80379	-0.00227	0.76823
0.27826	-3.28030	1.50126	-0.12924	-1.52454	0.55468	-0.00237	0.45750	0.80457	-0.00138	0.76421
0.28480	-3.31968	1.50121	-0.13450	-1.51957	0.56050	-0.00237	0.45344	0.80353	-0.00048	0.76025
0.29150	-3.35107	1.50253	-0.13985	-1.51751	0.56682	-0.00236	0.45236	0.80184	0.00045	0.75597
0.29836	-3.38194	1.50477	-0.14510	-1.51657	0.57329	-0.00236	0.45150	0.80021	0.00141	0.75138

0.30539	-3.41632	1.50788	-0.15005	-1.51590	0.58032	-0.00236	0.45041	0.79871	0.00232	0.74701
0.31257	-3.45571	1.51132	-0.15463	-1.51465	0.58759	-0.00236	0.44909	0.79730	0.00303	0.74382
0.31993	-3.49483	1.51466	-0.15895	-1.51329	0.59526	-0.00236	0.44977	0.79524	0.00344	0.74263
0.32745	-3.53048	1.51789	-0.16315	-1.51231	0.60374	-0.00237	0.45395	0.79214	0.00356	0.74336
0.33517	-3.56268	1.52068	-0.16746	-1.51133	0.61226	-0.00238	0.46098	0.78820	0.00344	0.74559
0.34304	-3.59631	1.52236	-0.17198	-1.50885	0.61844	-0.00238	0.46743	0.78436	0.00313	0.74891
0.35112	-3.63703	1.52251	-0.17672	-1.50358	0.62022	-0.00237	0.46969	0.78156	0.00258	0.75358
0.35938	-3.68685	1.52106	-0.18157	-1.49527	0.61709	-0.00235	0.46602	0.78024	0.00179	0.75961
0.36784	-3.74960	1.51869	-0.18635	-1.48400	0.60987	-0.00231	0.45567	0.78066	0.00092	0.76609
0.37649	-3.82981	1.51592	-0.19098	-1.46934	0.59963	-0.00227	0.43814	0.78308	0.00009	0.77217
0.38536	-3.92428	1.51308	-0.19564	-1.45219	0.58822	-0.00223	0.41575	0.78701	-0.00070	0.77798
0.39442	-4.02507	1.51127	-0.20041	-1.43513	0.57880	-0.00220	0.39302	0.79126	-0.00137	0.78318
0.40370	-4.12628	1.51141	-0.20533	-1.42027	0.57349	-0.00218	0.37304	0.79490	-0.00181	0.78712
0.41321	-4.22202	1.51367	-0.21052	-1.40890	0.57252	-0.00218	0.35781	0.79716	-0.00190	0.78906
0.42292	-4.30902	1.51765	-0.21605	-1.40110	0.57432	-0.00218	0.34814	0.79759	-0.00157	0.78844
0.43288	-4.39120	1.52284	-0.22184	-1.39542	0.57669	-0.00218	0.34232	0.79669	-0.00083	0.78539
0.44307	-4.47615	1.52855	-0.22774	-1.38954	0.57785	-0.00219	0.33693	0.79574	0.00016	0.78094
0.45349	-4.56611	1.53448	-0.23369	-1.38274	0.57764	-0.00220	0.33056	0.79529	0.00128	0.77593
0.46417	-4.66041	1.54089	-0.23964	-1.37544	0.57696	-0.00222	0.32345	0.79532	0.00253	0.77024
0.47508	-4.75710	1.54803	-0.24551	-1.36833	0.57702	-0.00224	0.31661	0.79541	0.00392	0.76384
0.48626	-4.85642	1.55530	-0.25125	-1.36085	0.57806	-0.00226	0.30972	0.79559	0.00529	0.75768
0.49771	-4.95443	1.56181	-0.25694	-1.35293	0.58015	-0.00229	0.30338	0.79540	0.00640	0.75322
0.50942	-5.04721	1.56704	-0.26261	-1.34482	0.58333	-0.00232	0.29862	0.79426	0.00709	0.75146
0.52140	-5.13388	1.57102	-0.26828	-1.33670	0.58774	-0.00235	0.29587	0.79189	0.00735	0.75255
0.53367	-5.21461	1.57408	-0.27393	-1.32887	0.59368	-0.00238	0.29523	0.78828	0.00723	0.75606
0.54624	-5.28656	1.57661	-0.27969	-1.32241	0.60143	-0.00241	0.29772	0.78311	0.00693	0.76063
0.55910	-5.34883	1.57917	-0.28561	-1.31806	0.61054	-0.00244	0.30421	0.77617	0.00678	0.76424
0.57225	-5.40225	1.58233	-0.29165	-1.31623	0.62019	-0.00245	0.31530	0.76743	0.00700	0.76533
0.58569	-5.44704	1.58629	-0.29772	-1.31703	0.62964	-0.00246	0.33147	0.75702	0.00764	0.76372
0.59948	-5.48444	1.59083	-0.30375	-1.32000	0.63841	-0.00245	0.35240	0.74536	0.00856	0.76027
0.61357	-5.51785	1.59560	-0.30956	-1.32400	0.64593	-0.00243	0.37630	0.73339	0.00960	0.75625
0.62802	-5.55008	1.60053	-0.31504	-1.32833	0.65220	-0.00241	0.40214	0.72157	0.01057	0.75281
0.64280	-5.58295	1.60567	-0.32007	-1.33248	0.65726	-0.00238	0.42904	0.71027	0.01135	0.75098
0.65794	-5.61587	1.61094	-0.32464	-1.33641	0.66136	-0.00234	0.45698	0.69946	0.01181	0.75163
0.67340	-5.64754	1.61616	-0.32880	-1.34013	0.66484	-0.00230	0.48585	0.68920	0.01188	0.75512
0.68927	-5.67644	1.62119	-0.33267	-1.34381	0.66818	-0.00226	0.51597	0.67941	0.01160	0.76126
0.70547	-5.70133	1.62604	-0.33632	-1.34765	0.67182	-0.00222	0.54754	0.67005	0.01105	0.76926
0.72207	-5.72552	1.63091	-0.33977	-1.35121	0.67592	-0.00218	0.57956	0.66129	0.01038	0.77803
0.73910	-5.75229	1.63594	-0.34303	-1.35397	0.68052	-0.00214	0.61057	0.65335	0.00969	0.78649
0.75649	-5.78257	1.64100	-0.34615	-1.35564	0.68517	-0.00211	0.63953	0.64629	0.00904	0.79390
0.77429	-5.81294	1.64583	-0.34927	-1.35668	0.68959	-0.00208	0.66778	0.63976	0.00843	0.80006
0.79246	-5.84158	1.65015	-0.35246	-1.35726	0.69346	-0.00206	0.69565	0.63363	0.00785	0.80474
0.81116	-5.86964	1.65398	-0.35571	-1.35720	0.69638	-0.00203	0.72316	0.62785	0.00732	0.80800
0.83022	-5.89762	1.65747	-0.35888	-1.35660	0.69836	-0.00199	0.75050	0.62234	0.00686	0.80986
0.84976	-5.92845	1.66097	-0.36187	-1.35527	0.69906	-0.00196	0.77724	0.61712	0.00652	0.81034
0.86972	-5.96476	1.66467	-0.36466	-1.35293	0.69823	-0.00193	0.80190	0.61239	0.00634	0.80957
0.89023	-6.01473	1.66855	-0.36721	-1.34804	0.69511	-0.00190	0.81848	0.60895	0.00632	0.80792
0.91116	-6.08679	1.67239	-0.36948	-1.33878	0.68881	-0.00187	0.81907	0.60785	0.00642	0.80611
0.93257	-6.18730	1.67606	-0.37144	-1.32387	0.67909	-0.00185	0.79821	0.60986	0.00659	0.80463
0.95456	-6.31904	1.67963	-0.37314	-1.30288	0.66633	-0.00184	0.75468	0.61542	0.00681	0.80366
0.97704	-6.48059	1.68346	-0.37456	-1.27649	0.65126	-0.00185	0.69183	0.62458	0.00709	0.80297
1.00000	-6.66309	1.68808	-0.37589	-1.24713	0.63493	-0.00186	0.61911	0.63656	0.00754	0.80193
1.02354	-6.85374	1.69396	-0.37738	-1.21809	0.61852	-0.00188	0.54736	0.64985	0.00825	0.79982
1.04767	-7.04698	1.70128	-0.37914	-1.19083	0.60303	-0.00189	0.48113	0.66362	0.00928	0.79623
1.07227	-7.23902	1.70998	-0.38119	-1.16607	0.58953	-0.00192	0.42260	0.67721	0.01055	0.79157
1.09745	-7.42874	1.71979	-0.38350	-1.14384	0.57835	-0.00195	0.37165	0.69033	0.01191	0.78679
1.12334	-7.61579	1.73030	-0.38600	-1.12387	0.56977	-0.00198	0.32747	0.70276	0.01318	0.78313
1.14982	-7.79918	1.74107	-0.38864	-1.10579	0.56347	-0.00201	0.28932	0.71442	0.01418	0.78160
1.17675	-7.97656	1.75177	-0.39144	-1.08958	0.55905	-0.00205	0.25714	0.72487	0.01484	0.78255
1.20453	-8.15075	1.76249	-0.39440	-1.07485	0.55629	-0.00209	0.23001	0.73395	0.01520	0.78574
1.23289	-8.32087	1.77321	-0.39742	-1.06163	0.55495	-0.00213	0.20781	0.74125	0.01531	0.79044
1.26183	-8.48897	1.78411	-0.40030	-1.04966	0.55448	-0.00217	0.18975	0.74669	0.01526	0.79589
1.29149	-8.65625	1.79539	-0.40289	-1.03905	0.55458	-0.00221	0.17550	0.74999	0.01515	0.80150
1.32188	-8.82343	1.80711	-0.40509	-1.02963	0.55450	-0.00225	0.16459	0.75108	0.01502	0.80685
1.35300	-8.98956	1.81921	-0.40685	-1.02148	0.55399	-0.00227	0.15697	0.74966	0.01494	0.81166
1.38485	-9.15367	1.83146	-0.40827	-1.01446	0.55330	-0.00230	0.15246	0.74556	0.01498	0.81571
1.41743	-9.31497	1.84353	-0.40945	-1.00826	0.55263	-0.00232	0.15080	0.73876	0.01517	0.81878
1.45075	-9.47242	1.85522	-0.41043	-1.00280	0.55263	-0.00233	0.15207	0.72909	0.01557	0.82073
1.48500	-9.62479	1.86650	-0.41121	-0.99841	0.55377	-0.00235	0.15702	0.71600	0.01619	0.82138
1.51999	-9.76734	1.87736	-0.41183	-0.99594	0.55666	-0.00237	0.16720	0.69874	0.01706	0.82050
1.55569	-9.89690	1.88787	-0.41229	-0.99619	0.56203	-0.00238	0.18465	0.67674	0.01820	0.81803
1.59236	-10.01323	1.89813	-0.41256	-0.99934	0.56992	-0.00239	0.21163	0.65003	0.01954	0.81432
1.62973	-10.11472	1.90805	-0.41257	-1.00546	0.58021	-0.00240	0.25093	0.61923	0.02095	0.81012
1.66806	-10.20279	1.91773	-0.41222	-1.01437	0.59270	-0.00240	0.30617	0.58513	0.02234	0.80616
1.70736	-10.27940	1.92724	-0.41143	-1.02562	0.60715	-0.00240	0.38095	0.54910	0.02360	0.80300
1.74764	-10.34715	1.93664	-0.41013	-1.03868	0.62353	-0.00240	0.47869	0.51245	0.02469	0.80101
1.78859	-10.40828	1.94589	-0.40833	-1.05282	0.64133	-0.00240	0.60109	0.47662	0.02559	0.80034
1.83083	-10.46740	1.95514	-0.40602	-1.06742	0.66010	-0.00240	0.75030	0.44215	0.02632	0.80091
1.87371	-10.52645	1.96422	-0.40327	-1.08163	0.67911	-0.00241	0.92288	0.41015	0.02690	0.80252
1.91791	-10.58936	1.97327	-0.40009	-1.09498	0.69798	-0.00241	1.11785	0.38054	0.02738	0.80485
1.96309	-10.65738	1.98217	-0.39657	-1.10692	0.71601	-0.00242	1.32950	0.35363	0.02781	0.80759

2.00924	-10.73057	1.99085	-0.39278	-1.11732	0.73289	-0.00242	1.55436	0.32921	0.02817	0.81067
2.05634	-10.80867	1.99928	-0.38878	-1.12618	0.74853	-0.00243	1.78861	0.30711	0.02844	0.81411
2.10482	-10.89203	2.00756	-0.38456	-1.13367	0.76291	-0.00244	2.03083	0.28699	0.02863	0.81787
2.15424	-10.97967	2.01566	-0.38020	-1.13979	0.77576	-0.00244	2.27506	0.26889	0.02873	0.82175
2.20507	-11.07192	2.02370	-0.37569	-1.14475	0.78722	-0.00245	2.52054	0.25249	0.02877	0.82561
2.25683	-11.16797	2.03168	-0.37112	-1.14855	0.79732	-0.00245	2.76096	0.23782	0.02874	0.82942
2.31000	-11.26852	2.03975	-0.36643	-1.15138	0.80631	-0.00245	2.99583	0.22461	0.02866	0.83322
2.36463	-11.37339	2.04798	-0.36163	-1.15336	0.81433	-0.00246	3.22292	0.21273	0.02853	0.83709
2.42014	-11.48142	2.05636	-0.35680	-1.15454	0.82144	-0.00246	3.43729	0.20220	0.02835	0.84111
2.47709	-11.59373	2.06498	-0.35188	-1.15499	0.82779	-0.00246	3.63867	0.19282	0.02812	0.84542
2.53550	-11.71027	2.07391	-0.34690	-1.15474	0.83342	-0.00246	3.82544	0.18449	0.02785	0.85014
2.59471	-11.82961	2.08307	-0.34191	-1.15388	0.83835	-0.00246	3.99390	0.17725	0.02753	0.85534
2.65604	-11.95411	2.09263	-0.33680	-1.15241	0.84266	-0.00247	4.14626	0.17087	0.02717	0.86117
2.71887	-12.08228	2.10252	-0.33167	-1.15038	0.84636	-0.00247	4.27950	0.16539	0.02677	0.86760
2.78242	-12.21206	2.11257	-0.32657	-1.14791	0.84948	-0.00247	4.39264	0.16077	0.02635	0.87457
2.84819	-12.34542	2.12291	-0.32139	-1.14508	0.85220	-0.00247	4.48970	0.15684	0.02590	0.88229
2.91545	-12.48064	2.13352	-0.31624	-1.14200	0.85459	-0.00247	4.56993	0.15358	0.02543	0.89068
2.98329	-12.61450	2.14403	-0.31116	-1.13887	0.85669	-0.00247	4.63454	0.15100	0.02496	0.89949
3.05344	-12.75064	2.15484	-0.30608	-1.13559	0.85860	-0.00247	4.68465	0.14899	0.02449	0.90871
3.12598	-12.88780	2.16573	-0.30096	-1.13232	0.86042	-0.00247	4.72243	0.14753	0.02401	0.91816
3.19898	-13.02239	2.17652	-0.29601	-1.12913	0.86211	-0.00247	4.74729	0.14660	0.02354	0.92726
3.27439	-13.15729	2.18734	-0.29103	-1.12606	0.86378	-0.00247	4.76213	0.14613	0.02307	0.93599
3.35121	-13.29055	2.19809	-0.28617	-1.12310	0.86541	-0.00247	4.76702	0.14609	0.02262	0.94407
3.43053	-13.42368	2.20883	-0.28128	-1.12029	0.86707	-0.00246	4.76357	0.14647	0.02216	0.95184
3.51124	-13.55492	2.21950	-0.27654	-1.11762	0.86871	-0.00246	4.75243	0.14717	0.02171	0.95944
3.59324	-13.68327	2.22985	-0.27182	-1.11522	0.87039	-0.00246	4.73582	0.14819	0.02126	0.96724
3.67782	-13.81253	2.24049	-0.26719	-1.11286	0.87208	-0.00246	4.71237	0.14948	0.02079	0.97565
3.76506	-13.93935	2.25068	-0.26246	-1.11084	0.87388	-0.00245	4.68623	0.15105	0.02030	0.98515
3.85356	-14.06689	2.26137	-0.25793	-1.10882	0.87564	-0.00245	4.65339	0.15283	0.01980	0.99542
3.94477	-14.19040	2.27128	-0.25328	-1.10718	0.87751	-0.00245	4.62034	0.15481	0.01929	1.00650
4.03714	-14.31550	2.28187	-0.24876	-1.10553	0.87935	-0.00244	4.58112	0.15698	0.01878	1.01784
4.13223	-14.43780	2.29193	-0.24425	-1.10410	0.88123	-0.00244	4.54149	0.15927	0.01826	1.02938
4.23012	-14.56000	2.30202	-0.23962	-1.10291	0.88318	-0.00244	4.49923	0.16178	0.01772	1.04081
4.32900	-14.68371	2.31279	-0.23523	-1.10158	0.88504	-0.00243	4.45319	0.16432	0.01722	1.05142
4.43066	-14.80071	2.32217	-0.23064	-1.10074	0.88703	-0.00243	4.41125	0.16695	0.01670	1.06156
4.53515	-14.92398	2.33294	-0.22609	-1.09978	0.88898	-0.00242	4.36306	0.16975	0.01619	1.07107
4.64253	-15.04586	2.34346	-0.22164	-1.09884	0.89091	-0.00241	4.31563	0.17251	0.01570	1.07997
4.75059	-15.15970	2.35260	-0.21700	-1.09841	0.89292	-0.00241	4.27244	0.17533	0.01518	1.08835
4.86145	-15.28314	2.36385	-0.21251	-1.09764	0.89482	-0.00240	4.22192	0.17826	0.01469	1.09611
4.97760	-15.40353	2.37416	-0.20799	-1.09701	0.89676	-0.00240	4.17527	0.18111	0.01419	1.10359
5.09424	-15.51616	2.38315	-0.20324	-1.09687	0.89878	-0.00239	4.13313	0.18399	0.01367	1.11072
5.21376	-15.64095	2.39479	-0.19868	-1.09627	0.90065	-0.00238	4.08293	0.18696	0.01318	1.11737
5.33618	-15.75942	2.40514	-0.19426	-1.09577	0.90249	-0.00238	4.03854	0.18971	0.01270	1.12374
5.46150	-15.86805	2.41340	-0.18947	-1.09589	0.90446	-0.00237	4.00096	0.19245	0.01218	1.13023
5.58971	-15.99050	2.42467	-0.18477	-1.09557	0.90631	-0.00236	3.95466	0.19536	0.01168	1.13654
5.72082	-16.11426	2.43631	-0.18043	-1.09497	0.90803	-0.00236	3.90936	0.19805	0.01122	1.14274
5.85823	-16.22083	2.44392	-0.17563	-1.09521	0.90994	-0.00235	3.87688	0.20057	0.01070	1.14954
5.99520	-16.33398	2.45334	-0.17080	-1.09533	0.91178	-0.00234	3.83964	0.20322	0.01019	1.15636
6.13497	-16.46198	2.46608	-0.16633	-1.09481	0.91346	-0.00233	3.79498	0.20588	0.00974	1.16301
6.28141	-16.57580	2.47548	-0.16193	-1.09464	0.91514	-0.00233	3.76140	0.20817	0.00929	1.17000
6.42674	-16.67266	2.48165	-0.15718	-1.09518	0.91691	-0.00232	3.73729	0.21032	0.00881	1.17723
6.57895	-16.78961	2.49182	-0.15232	-1.09529	0.91865	-0.00231	3.70325	0.21274	0.00834	1.18465
6.73401	-16.92134	2.50534	-0.14792	-1.09472	0.92021	-0.00230	3.66263	0.21512	0.00794	1.19184
6.89180	-17.02624	2.51324	-0.14372	-1.09473	0.92175	-0.00229	3.63801	0.21696	0.00754	1.19918
7.05716	-17.11908	2.51812	-0.13889	-1.09547	0.92344	-0.00229	3.62097	0.21878	0.00709	1.20708
7.22022	-17.22773	2.52697	-0.13420	-1.09573	0.92503	-0.00228	3.59538	0.22075	0.00668	1.21447
7.39098	-17.36012	2.54070	-0.12973	-1.09531	0.92654	-0.00227	3.56011	0.22287	0.00632	1.22152
7.56430	-17.47456	2.55081	-0.12584	-1.09497	0.92790	-0.00226	3.53465	0.22450	0.00600	1.22812
7.73994	-17.55149	2.55292	-0.12156	-1.09580	0.92933	-0.00226	3.52704	0.22577	0.00562	1.23476
7.92393	-17.64778	2.55880	-0.11690	-1.09639	0.93081	-0.00225	3.51155	0.22732	0.00524	1.24106
8.11030	-17.76229	2.56883	-0.11232	-1.09655	0.93226	-0.00224	3.48867	0.22901	0.00490	1.24666
8.29876	-17.89856	2.58387	-0.10824	-1.09595	0.93362	-0.00223	3.45762	0.23072	0.00465	1.25140
8.49618	-17.99890	2.59094	-0.10461	-1.09591	0.93482	-0.00222	3.44261	0.23187	0.00438	1.25612
8.69565	-18.06249	2.59014	-0.10054	-1.09695	0.93602	-0.00221	3.44204	0.23278	0.00404	1.26116
8.90472	-18.15564	2.59533	-0.09610	-1.09755	0.93730	-0.00221	3.43093	0.23400	0.00371	1.26600
9.11577	-18.26094	2.60341	-0.09171	-1.09789	0.93858	-0.00220	3.41564	0.23529	0.00341	1.27059
9.32836	-18.39863	2.61886	-0.08749	-1.09752	0.93995	-0.00218	3.38988	0.23675	0.00319	1.27472
9.54198	-18.51779	2.63075	-0.08425	-1.09698	0.94105	-0.00217	3.37088	0.23775	0.00302	1.27880
9.76563	-18.56935	2.62765	-0.08099	-1.09789	0.94190	-0.00217	3.37408	0.23832	0.00274	1.28419
10.00000	-18.63389	2.62680	-0.07704	-1.09881	0.94283	-0.00216	3.37381	0.23907	0.00242	1.29039

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Median stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 152 - 305 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.55431	3.38711	-0.04617	-1.72604	1.05569	-0.00102	1.36293	0.43678	-0.01577	0.32169
PGV	2.50189	1.92656	-0.14659	-2.52319	1.38264	-0.00170	5.92454	0.36456	-0.01115	0.40552
PGA	3.02021	1.68630	-0.05836	-3.07411	1.23164	-0.00163	6.72550	0.44280	-0.03254	0.74868
0.01000	3.71018	1.70148	-0.05869	-3.20927	1.24371	-0.00149	7.67147	0.43006	-0.01920	0.73677
0.01024	3.67343	1.70437	-0.05765	-3.20389	1.23637	-0.00148	7.60317	0.43216	-0.01923	0.73707
0.01048	3.64045	1.70721	-0.05663	-3.19918	1.22925	-0.00148	7.53977	0.43417	-0.01927	0.73738
0.01072	3.61159	1.71002	-0.05562	-3.19523	1.22235	-0.00148	7.48171	0.43609	-0.01931	0.73769
0.01097	3.58737	1.71279	-0.05461	-3.19211	1.21567	-0.00147	7.42969	0.43790	-0.01936	0.73799
0.01123	3.56949	1.71557	-0.05363	-3.19017	1.20926	-0.00146	7.38616	0.43958	-0.01943	0.73833
0.01150	3.55686	1.71833	-0.05265	-3.18918	1.20308	-0.00146	7.34956	0.44113	-0.01950	0.73870
0.01177	3.54924	1.72108	-0.05168	-3.18910	1.19710	-0.00145	7.31950	0.44256	-0.01959	0.73908
0.01205	3.54673	1.72384	-0.05072	-3.18996	1.19132	-0.00144	7.29600	0.44389	-0.01968	0.73947
0.01233	3.54894	1.72660	-0.04977	-3.19167	1.18570	-0.00143	7.27842	0.44511	-0.01978	0.73988
0.01262	3.55420	1.72935	-0.04882	-3.19393	1.18020	-0.00142	7.26445	0.44627	-0.01988	0.74028
0.01292	3.56181	1.73209	-0.04787	-3.19659	1.17476	-0.00141	7.25316	0.44738	-0.01998	0.74064
0.01322	3.57382	1.73484	-0.04691	-3.20006	1.16942	-0.00139	7.24702	0.44840	-0.02009	0.74101
0.01353	3.59204	1.73765	-0.04593	-3.20468	1.16422	-0.00138	7.24830	0.44931	-0.02022	0.74151
0.01385	3.61482	1.74048	-0.04495	-3.21015	1.15914	-0.00137	7.25506	0.45012	-0.02036	0.74212
0.01417	3.64115	1.74332	-0.04396	-3.21625	1.15420	-0.00135	7.26601	0.45087	-0.02052	0.74283
0.01451	3.67128	1.74620	-0.04295	-3.22306	1.14943	-0.00134	7.28133	0.45154	-0.02070	0.74365
0.01485	3.70435	1.74911	-0.04191	-3.23041	1.14479	-0.00132	7.29975	0.45217	-0.02088	0.74456
0.01520	3.73986	1.75204	-0.04086	-3.23819	1.14023	-0.00130	7.32072	0.45275	-0.02106	0.74547
0.01556	3.78217	1.75501	-0.03983	-3.24718	1.13579	-0.00129	7.35028	0.45321	-0.02123	0.74638
0.01592	3.83586	1.75805	-0.03881	-3.25823	1.13142	-0.00127	7.39441	0.45344	-0.02140	0.74741
0.01630	3.90001	1.76120	-0.03778	-3.27120	1.12712	-0.00124	7.45152	0.45350	-0.02158	0.74852
0.01668	3.96622	1.76441	-0.03672	-3.28458	1.12283	-0.00122	7.50992	0.45355	-0.02176	0.74968
0.01707	4.02316	1.76757	-0.03562	-3.29623	1.11828	-0.00120	7.55429	0.45382	-0.02194	0.75091
0.01748	4.06755	1.77066	-0.03445	-3.30554	1.11344	-0.00118	7.58013	0.45438	-0.02214	0.75228
0.01789	4.10981	1.77376	-0.03325	-3.31444	1.10854	-0.00117	7.60199	0.45501	-0.02234	0.75371
0.01831	4.15911	1.77687	-0.03207	-3.32454	1.10371	-0.00115	7.63339	0.45550	-0.02253	0.75510
0.01874	4.21736	1.77998	-0.03092	-3.33614	1.09886	-0.00113	7.67732	0.45581	-0.02274	0.75659
0.01918	4.28492	1.78316	-0.02976	-3.34935	1.09393	-0.00111	7.73334	0.45595	-0.02298	0.75832
0.01963	4.36104	1.78648	-0.02855	-3.36415	1.08896	-0.00108	7.79877	0.45600	-0.02326	0.76028
0.02009	4.44789	1.79001	-0.02725	-3.38099	1.08406	-0.00106	7.87570	0.45591	-0.02353	0.76216
0.02057	4.53977	1.79374	-0.02591	-3.39886	1.07917	-0.00103	7.95646	0.45581	-0.02374	0.76362
0.02105	4.62359	1.79749	-0.02452	-3.41528	1.07423	-0.00100	8.02486	0.45591	-0.02392	0.76488
0.02154	4.69679	1.80123	-0.02306	-3.42976	1.06921	-0.00098	8.07783	0.45624	-0.02411	0.76621
0.02205	4.76266	1.80496	-0.02156	-3.44284	1.06393	-0.00096	8.11948	0.45675	-0.02430	0.76758
0.02257	4.82896	1.80872	-0.02004	-3.45589	1.05834	-0.00094	8.16047	0.45730	-0.02451	0.76904
0.02310	4.90436	1.81258	-0.01853	-3.47049	1.05266	-0.00092	8.21288	0.45772	-0.02475	0.77068
0.02364	4.98363	1.81646	-0.01704	-3.48570	1.04700	-0.00090	8.27027	0.45807	-0.02505	0.77280
0.02420	5.06375	1.82027	-0.01559	-3.50090	1.04129	-0.00088	8.32950	0.45841	-0.02547	0.77569
0.02477	5.14264	1.82406	-0.01414	-3.51577	1.03563	-0.00086	8.38755	0.45876	-0.02596	0.77902
0.02535	5.21415	1.82786	-0.01264	-3.52932	1.03032	-0.00084	8.43466	0.45927	-0.02642	0.78225
0.02595	5.28667	1.83178	-0.01107	-3.54310	1.02552	-0.00083	8.48163	0.45977	-0.02684	0.78511
0.02656	5.37386	1.83585	-0.00950	-3.55948	1.02089	-0.00081	8.54815	0.46003	-0.02721	0.78774
0.02719	5.45946	1.83989	-0.00791	-3.57528	1.01546	-0.00079	8.61315	0.46037	-0.02757	0.79034
0.02783	5.52257	1.84379	-0.00626	-3.58669	1.00840	-0.00078	8.64641	0.46121	-0.02795	0.79309
0.02848	5.56752	1.84762	-0.00457	-3.59479	1.00015	-0.00077	8.65108	0.46248	-0.02834	0.79599
0.02915	5.61078	1.85158	-0.00286	-3.60277	0.99201	-0.00075	8.65000	0.46383	-0.02871	0.79883
0.02984	5.64885	1.85568	-0.00115	-3.60996	0.98408	-0.00074	8.63938	0.46532	-0.02906	0.80163
0.03054	5.68249	1.85989	0.00057	-3.61632	0.97572	-0.00073	8.62071	0.46696	-0.02942	0.80459
0.03126	5.72261	1.86427	0.00229	-3.62377	0.96719	-0.00072	8.60960	0.46855	-0.02982	0.80791
0.03199	5.76891	1.86883	0.00402	-3.63233	0.95879	-0.00071	8.60567	0.47006	-0.03022	0.81138
0.03275	5.78295	1.87347	0.00587	-3.63530	0.95023	-0.00071	8.55634	0.47222	-0.03054	0.81435
0.03352	5.73406	1.87789	0.00795	-3.62713	0.94163	-0.00072	8.42502	0.47549	-0.03074	0.81663
0.03430	5.64714	1.88171	0.01007	-3.61173	0.93367	-0.00075	8.25586	0.47922	-0.03094	0.81895
0.03511	5.53646	1.88495	0.01215	-3.59148	0.92626	-0.00078	8.07016	0.48318	-0.03111	0.82116
0.03594	5.41705	1.88791	0.01418	-3.56930	0.91898	-0.00082	7.88203	0.48721	-0.03121	0.82295
0.03678	5.31558	1.89083	0.01610	-3.55017	0.91213	-0.00086	7.72121	0.49087	-0.03131	0.82473
0.03765	5.23729	1.89396	0.01794	-3.53520	0.90550	-0.00089	7.58998	0.49415	-0.03145	0.82675
0.03854	5.14892	1.89730	0.01993	-3.51860	0.89802	-0.00092	7.44253	0.49780	-0.03157	0.82868
0.03944	5.02219	1.90066	0.02219	-3.49536	0.88940	-0.00095	7.24464	0.50240	-0.03161	0.83004
0.04037	4.87970	1.90401	0.02463	-3.46930	0.88062	-0.00100	7.02989	0.50740	-0.03163	0.83116
0.04132	4.75849	1.90727	0.02698	-3.44671	0.87246	-0.00103	6.84784	0.51193	-0.03177	0.83303
0.04229	4.67526	1.91041	0.02900	-3.43044	0.86444	-0.00106	6.71792	0.51560	-0.03205	0.83585
0.04329	4.60421	1.91317	0.03059	-3.41574	0.85549	-0.00109	6.60844	0.51894	-0.03236	0.83877
0.04431	4.50807	1.91546	0.03194	-3.39617	0.84590	-0.00112	6.47533	0.52273	-0.03257	0.84102
0.04535	4.35658	1.91740	0.03358	-3.36677	0.83657	-0.00116	6.28260	0.52766	-0.03270	0.84281

0.04642	4.15206	1.91924	0.03571	-3.32808	0.82751	-0.00122	6.03471	0.53381	-0.03286	0.84482
0.04751	3.94668	1.92105	0.03790	-3.28924	0.81880	-0.00128	5.79241	0.54004	-0.03304	0.84689
0.04863	3.77626	1.92316	0.03984	-3.25691	0.81043	-0.00133	5.59063	0.54561	-0.03311	0.84816
0.04977	3.61812	1.92594	0.04179	-3.22744	0.80247	-0.00137	5.40006	0.55116	-0.03307	0.84861
0.05094	3.45251	1.92912	0.04391	-3.19689	0.79524	-0.00142	5.20418	0.55704	-0.03301	0.84883
0.05214	3.28518	1.93226	0.04607	-3.16565	0.78870	-0.00148	5.01639	0.56291	-0.03286	0.84838
0.05337	3.11560	1.93548	0.04823	-3.13379	0.78252	-0.00154	4.83542	0.56880	-0.03254	0.84675
0.05462	2.94949	1.93894	0.05041	-3.10273	0.77651	-0.00159	4.66182	0.57470	-0.03221	0.84491
0.05591	2.79610	1.94254	0.05248	-3.07406	0.77051	-0.00165	4.50268	0.58041	-0.03201	0.84406
0.05722	2.64414	1.94597	0.05452	-3.04569	0.76528	-0.00170	4.34898	0.58605	-0.03199	0.84445
0.05857	2.47834	1.94872	0.05660	-3.01488	0.76105	-0.00176	4.18672	0.59191	-0.03215	0.84608
0.05995	2.29353	1.95019	0.05856	-2.98039	0.75715	-0.00182	4.01139	0.59813	-0.03254	0.84938
0.06136	2.07271	1.95025	0.06047	-2.93899	0.75274	-0.00188	3.80862	0.60529	-0.03309	0.85399
0.06280	1.82942	1.94992	0.06237	-2.89368	0.74788	-0.00194	3.58991	0.61331	-0.03357	0.85839
0.06428	1.60122	1.94957	0.06409	-2.85127	0.74330	-0.00200	3.38663	0.62120	-0.03374	0.86097
0.06579	1.40701	1.94824	0.06538	-2.81404	0.73909	-0.00204	3.21558	0.62815	-0.03350	0.86097
0.06734	1.24811	1.94538	0.06610	-2.78137	0.73344	-0.00208	3.07724	0.63406	-0.03304	0.85954
0.06893	1.11863	1.94199	0.06635	-2.75268	0.72518	-0.00210	2.96532	0.63923	-0.03275	0.85927
0.07055	1.02526	1.93884	0.06616	-2.73001	0.71670	-0.00212	2.88526	0.64328	-0.03279	0.86107
0.07221	0.96124	1.93588	0.06559	-2.71290	0.71146	-0.00213	2.83056	0.64611	-0.03294	0.86345
0.07391	0.89223	1.93254	0.06498	-2.69534	0.71017	-0.00216	2.77398	0.64872	-0.03309	0.86544
0.07565	0.80083	1.92791	0.06456	-2.67293	0.71127	-0.00220	2.70612	0.65163	-0.03323	0.86708
0.07743	0.69208	1.92228	0.06427	-2.64625	0.71326	-0.00224	2.63144	0.65484	-0.03325	0.86781
0.07925	0.57021	1.91723	0.06410	-2.61742	0.71488	-0.00230	2.54936	0.65867	-0.03309	0.86731
0.08111	0.46560	1.91416	0.06384	-2.59306	0.71579	-0.00234	2.47962	0.66231	-0.03285	0.86618
0.08302	0.38239	1.91257	0.06343	-2.57393	0.71740	-0.00238	2.42425	0.66539	-0.03263	0.86522
0.08498	0.28716	1.91060	0.06315	-2.55316	0.72126	-0.00242	2.35832	0.66887	-0.03249	0.86486
0.08697	0.16818	1.90750	0.06301	-2.52843	0.72661	-0.00247	2.27153	0.67326	-0.03233	0.86482
0.08902	0.03744	1.90334	0.06282	-2.50145	0.73046	-0.00251	2.17312	0.67837	-0.03217	0.86502
0.09112	-0.09956	1.89821	0.06247	-2.47241	0.72963	-0.00254	2.07011	0.68412	-0.03208	0.86603
0.09326	-0.25250	1.89218	0.06199	-2.43930	0.72340	-0.00256	1.95944	0.69088	-0.03208	0.86784
0.09545	-0.41699	1.88498	0.06131	-2.40249	0.71519	-0.00258	1.84927	0.69803	-0.03206	0.86983
0.09770	-0.56492	1.87660	0.06012	-2.36690	0.70966	-0.00261	1.76005	0.70387	-0.03192	0.87141
0.10000	-0.67128	1.86740	0.05808	-2.33733	0.70877	-0.00265	1.70423	0.70722	-0.03178	0.87339
0.10235	-0.75672	1.85778	0.05558	-2.31070	0.70946	-0.00269	1.66283	0.70951	-0.03182	0.87699
0.10476	-0.86806	1.84805	0.05339	-2.27946	0.70691	-0.00272	1.60065	0.71374	-0.03205	0.88212
0.10723	-1.03807	1.83907	0.05212	-2.23891	0.70038	-0.00275	1.49888	0.72180	-0.03227	0.88734
0.10975	-1.24423	1.83121	0.05146	-2.19350	0.69339	-0.00279	1.37756	0.73236	-0.03221	0.89065
0.11233	-1.43644	1.82421	0.05077	-2.15163	0.68987	-0.00283	1.27062	0.74227	-0.03178	0.89111
0.11498	-1.57927	1.81780	0.04964	-2.11911	0.69056	-0.00288	1.19562	0.74940	-0.03118	0.89006
0.11768	-1.67146	1.81118	0.04779	-2.09580	0.69228	-0.00291	1.14648	0.75392	-0.03067	0.88923
0.12045	-1.73031	1.80345	0.04520	-2.07805	0.69281	-0.00292	1.11110	0.75686	-0.03028	0.88880
0.12328	-1.77389	1.79539	0.04244	-2.06293	0.69282	-0.00292	1.08390	0.75889	-0.02987	0.88787
0.12619	-1.80607	1.78775	0.03976	-2.04970	0.69327	-0.00292	1.06668	0.75986	-0.02945	0.88658
0.12916	-1.83212	1.77937	0.03667	-2.03634	0.69351	-0.00293	1.05516	0.76011	-0.02899	0.88509
0.13219	-1.87445	1.76905	0.03308	-2.01834	0.69282	-0.00294	1.03542	0.76118	-0.02832	0.88221
0.13531	-1.92713	1.75672	0.02899	-1.99723	0.69143	-0.00294	1.00849	0.76288	-0.02724	0.87632
0.13849	-1.97999	1.74433	0.02467	-1.97643	0.68956	-0.00294	0.98057	0.76472	-0.02578	0.86749
0.14175	-2.03181	1.73287	0.02034	-1.95676	0.68840	-0.00294	0.95360	0.76657	-0.02414	0.85716
0.14508	-2.08995	1.72210	0.01624	-1.93656	0.68820	-0.00294	0.92392	0.76893	-0.02250	0.84653
0.14850	-2.15828	1.71186	0.01246	-1.91499	0.68848	-0.00295	0.88970	0.77212	-0.02108	0.83718
0.15199	-2.22476	1.70279	0.00875	-1.89482	0.69005	-0.00296	0.85754	0.77523	-0.02006	0.83052
0.15557	-2.28125	1.69505	0.00471	-1.87771	0.69150	-0.00298	0.83109	0.77766	-0.01940	0.82644
0.15923	-2.34514	1.68687	0.00027	-1.85894	0.68800	-0.00297	0.80079	0.78089	-0.01897	0.82401
0.16298	-2.43043	1.67744	-0.00423	-1.83514	0.67814	-0.00296	0.76038	0.78608	-0.01846	0.82111
0.16681	-2.52609	1.66775	-0.00842	-1.80907	0.66662	-0.00294	0.71701	0.79225	-0.01753	0.81558
0.17074	-2.61499	1.65801	-0.01237	-1.78386	0.65771	-0.00293	0.67915	0.79777	-0.01630	0.80828
0.17475	-2.69499	1.64826	-0.01618	-1.76011	0.65202	-0.00293	0.64768	0.80224	-0.01506	0.80122
0.17887	-2.77003	1.63938	-0.01988	-1.73830	0.64797	-0.00293	0.62033	0.80606	-0.01393	0.79515
0.18307	-2.84081	1.63264	-0.02372	-1.71967	0.64453	-0.00293	0.59666	0.80943	-0.01291	0.78989
0.18738	-2.90758	1.62833	-0.02807	-1.70437	0.64235	-0.00293	0.57639	0.81235	-0.01204	0.78559
0.19179	-2.96993	1.62427	-0.03307	-1.69018	0.64162	-0.00293	0.55839	0.81479	-0.01147	0.78322
0.19631	-3.02507	1.61800	-0.03835	-1.67498	0.64274	-0.00294	0.54259	0.81648	-0.01131	0.78346
0.20092	-3.06500	1.60954	-0.04361	-1.65989	0.64690	-0.00296	0.53220	0.81665	-0.01137	0.78491
0.20565	-3.08983	1.60076	-0.04888	-1.64649	0.65246	-0.00298	0.52746	0.81557	-0.01114	0.78431
0.21049	-3.10413	1.59287	-0.05447	-1.63531	0.65568	-0.00298	0.52575	0.81417	-0.01033	0.77998
0.21544	-3.11158	1.58613	-0.06056	-1.62636	0.65493	-0.00297	0.52512	0.81289	-0.00909	0.77287
0.22051	-3.10769	1.58115	-0.06706	-1.62142	0.65281	-0.00295	0.52830	0.81090	-0.00770	0.76477
0.22570	-3.08868	1.57809	-0.07366	-1.62175	0.65312	-0.00292	0.53804	0.80727	-0.00641	0.75737
0.23101	-3.06950	1.57588	-0.07987	-1.62388	0.65585	-0.00289	0.54885	0.80318	-0.00523	0.75092
0.23645	-3.06345	1.57242	-0.08557	-1.62358	0.65796	-0.00286	0.55404	0.79995	-0.00404	0.74438
0.24201	-3.07966	1.56626	-0.09073	-1.61745	0.65713	-0.00283	0.54919	0.79855	-0.00286	0.73774
0.24771	-3.10637	1.55736	-0.09573	-1.60676	0.65492	-0.00280	0.53967	0.79784	-0.00194	0.73280
0.25354	-3.12542	1.54765	-0.10098	-1.59592	0.65511	-0.00279	0.53477	0.79593	-0.00154	0.73156
0.25950	-3.13723	1.53981	-0.10629	-1.58719	0.65992	-0.00279	0.53624	0.79277	-0.00161	0.73416
0.26561	-3.15338	1.53503	-0.11130	-1.57990	0.66874	-0.00280	0.53995	0.78954	-0.00187	0.73873
0.27186	-3.18420	1.53311	-0.11588	-1.57226	0.67814	-0.00283	0.54084	0.78748	-0.00203	0.74299
0.27826	-3.22174	1.53316	-0.12036	-1.56523	0.68474	-0.00285	0.54041	0.78613	-0.00205	0.74624
0.28480	-3.25759	1.53461	-0.12509	-1.55994	0.68737	-0.00285	0.54119	0.78476	-0.00213	0.74967
0.29150	-3.29302	1.53707	-0.13017	-1.55590	0.68637	-0.00285	0.54171	0.78364	-0.00243	0.75423
0.29836	-3.33799	1.53929	-0.13557	-1.55021	0.68154	-0.00283	0.53671	0.78384	-0.00276	0.75880

0.30539	-3.39418	1.54002	-0.14124	-1.54138	0.67434	-0.00280	0.52543	0.78531	-0.00289	0.76158
0.31257	-3.44643	1.53959	-0.14713	-1.53245	0.66867	-0.00278	0.51522	0.78622	-0.00275	0.76213
0.31993	-3.48624	1.53938	-0.15315	-1.52627	0.66661	-0.00276	0.51097	0.78551	-0.00240	0.76098
0.32745	-3.52874	1.53972	-0.15894	-1.52023	0.66553	-0.00274	0.50710	0.78473	-0.00199	0.75913
0.33517	-3.59589	1.53999	-0.16420	-1.50959	0.66163	-0.00272	0.49484	0.78616	-0.00157	0.75692
0.34304	-3.68880	1.53987	-0.16883	-1.49379	0.65418	-0.00271	0.47383	0.79003	-0.00113	0.75445
0.35112	-3.79365	1.53932	-0.17313	-1.47539	0.64425	-0.00269	0.44921	0.79513	-0.00072	0.75217
0.35938	-3.88823	1.53869	-0.17761	-1.45897	0.63465	-0.00267	0.42865	0.79930	-0.00036	0.75034
0.36784	-3.95560	1.53903	-0.18274	-1.44895	0.62917	-0.00265	0.41821	0.80049	0.00000	0.74858
0.37649	-3.99101	1.54111	-0.18861	-1.44723	0.63009	-0.00262	0.41980	0.79788	0.00044	0.74646
0.38536	-3.99744	1.54447	-0.19520	-1.45297	0.63660	-0.00260	0.43239	0.79173	0.00091	0.74426
0.39442	-3.99206	1.54841	-0.20218	-1.46221	0.64502	-0.00258	0.44971	0.78414	0.00133	0.74239
0.40370	-3.99587	1.55242	-0.20923	-1.47036	0.65165	-0.00254	0.46355	0.77757	0.00167	0.74095
0.41321	-4.02203	1.55587	-0.21613	-1.47419	0.65441	-0.00250	0.46837	0.77345	0.00193	0.74006
0.42292	-4.07222	1.55805	-0.22281	-1.47238	0.65304	-0.00246	0.46401	0.77163	0.00210	0.73998
0.43288	-4.14195	1.55837	-0.22929	-1.46475	0.64880	-0.00243	0.45396	0.77106	0.00222	0.74065
0.44307	-4.21773	1.55685	-0.23563	-1.45342	0.64439	-0.00240	0.44502	0.76985	0.00230	0.74206
0.45349	-4.28774	1.55430	-0.24178	-1.44136	0.64191	-0.00239	0.44215	0.76672	0.00231	0.74435
0.46417	-4.35028	1.55211	-0.24752	-1.43030	0.64217	-0.00239	0.44613	0.76171	0.00223	0.74782
0.47508	-4.40480	1.55142	-0.25277	-1.42161	0.64588	-0.00240	0.45704	0.75510	0.00202	0.75259
0.48626	-4.45315	1.55260	-0.25766	-1.41560	0.65269	-0.00242	0.47311	0.74763	0.00176	0.75811
0.49771	-4.50262	1.55556	-0.26233	-1.41110	0.66085	-0.00245	0.48989	0.74054	0.00162	0.76305
0.50942	-4.56544	1.56011	-0.26670	-1.40585	0.66839	-0.00247	0.50085	0.73541	0.00177	0.76602
0.52140	-4.64889	1.56571	-0.27079	-1.39793	0.67468	-0.00250	0.50224	0.73285	0.00222	0.76691
0.53367	-4.74246	1.57168	-0.27486	-1.38859	0.68094	-0.00253	0.49905	0.73141	0.00276	0.76708
0.54624	-4.83054	1.57733	-0.27918	-1.38006	0.68816	-0.00257	0.49817	0.72919	0.00320	0.76781
0.55910	-4.90528	1.58208	-0.28390	-1.37331	0.69651	-0.00261	0.50283	0.72527	0.00349	0.76946
0.57225	-4.97426	1.58564	-0.28891	-1.36662	0.70499	-0.00265	0.50917	0.72059	0.00372	0.77133
0.58569	-5.04609	1.58810	-0.29403	-1.35844	0.71276	-0.00268	0.51247	0.71637	0.00395	0.77294
0.59948	-5.12498	1.58964	-0.29916	-1.34815	0.71943	-0.00271	0.51043	0.71323	0.00417	0.77443
0.61357	-5.21423	1.59047	-0.30419	-1.33528	0.72427	-0.00274	0.50113	0.71180	0.00444	0.77560
0.62802	-5.30788	1.59118	-0.30915	-1.32164	0.72791	-0.00276	0.48800	0.71137	0.00481	0.77623
0.64280	-5.39120	1.59249	-0.31420	-1.31097	0.73200	-0.00277	0.47864	0.71007	0.00528	0.77650
0.65794	-5.45291	1.59491	-0.31949	-1.30618	0.73768	-0.00277	0.47923	0.70621	0.00577	0.77678
0.67340	-5.48915	1.59856	-0.32507	-1.30833	0.74493	-0.00275	0.49219	0.69921	0.00626	0.77699
0.68927	-5.50630	1.60313	-0.33093	-1.31603	0.75275	-0.00272	0.51566	0.68968	0.00683	0.77666
0.70547	-5.51466	1.60819	-0.33692	-1.32665	0.75982	-0.00267	0.54580	0.67878	0.00751	0.77548
0.72207	-5.52895	1.61355	-0.34286	-1.33702	0.76447	-0.00262	0.57604	0.66808	0.00826	0.77364
0.73910	-5.56202	1.61919	-0.34855	-1.34442	0.76508	-0.00256	0.59960	0.65894	0.00902	0.77136
0.75649	-5.62470	1.62484	-0.35387	-1.34622	0.76004	-0.00250	0.61009	0.65241	0.00980	0.76836
0.77429	-5.71859	1.63015	-0.35893	-1.34153	0.74918	-0.00244	0.60685	0.64842	0.01064	0.76412
0.79246	-5.83415	1.63505	-0.36386	-1.33199	0.73484	-0.00239	0.59594	0.64571	0.01153	0.75847
0.81116	-5.96060	1.63995	-0.36879	-1.32020	0.71970	-0.00234	0.58480	0.64280	0.01239	0.75216
0.83022	-6.08444	1.64548	-0.37365	-1.30947	0.70656	-0.00230	0.58069	0.63834	0.01304	0.74675
0.84976	-6.19821	1.65231	-0.37838	-1.30222	0.69767	-0.00227	0.58837	0.63141	0.01337	0.74328
0.86972	-6.30141	1.66075	-0.38286	-1.29891	0.69400	-0.00224	0.60826	0.62212	0.01347	0.74139
0.89023	-6.40328	1.67065	-0.38709	-1.29759	0.69490	-0.00223	0.63545	0.61163	0.01362	0.73948
0.91116	-6.51096	1.68133	-0.39102	-1.29592	0.69855	-0.00223	0.66396	0.60120	0.01396	0.73681
0.93257	-6.62897	1.69206	-0.39465	-1.29214	0.70247	-0.00224	0.68917	0.59160	0.01445	0.73364
0.95456	-6.75804	1.70242	-0.39800	-1.28559	0.70509	-0.00226	0.70874	0.58308	0.01501	0.73043
0.97704	-6.89548	1.71222	-0.40102	-1.27655	0.70605	-0.00228	0.72240	0.57563	0.01558	0.72763
1.00000	-7.03608	1.72147	-0.40372	-1.26596	0.70587	-0.00229	0.73277	0.56879	0.01602	0.72623
1.02354	-7.17437	1.73031	-0.40613	-1.25495	0.70543	-0.00231	0.74359	0.56199	0.01618	0.72733
1.04767	-7.30618	1.73887	-0.40827	-1.24440	0.70557	-0.00232	0.75738	0.55495	0.01600	0.73146
1.07227	-7.43130	1.74728	-0.41016	-1.23440	0.70661	-0.00233	0.77299	0.54801	0.01550	0.73830
1.09745	-7.55334	1.75560	-0.41181	-1.22432	0.70832	-0.00234	0.78683	0.54180	0.01478	0.74727
1.12334	-7.67494	1.76389	-0.41326	-1.21368	0.71055	-0.00236	0.79603	0.53678	0.01389	0.75780
1.14982	-7.79623	1.77202	-0.41457	-1.20228	0.71322	-0.00238	0.79893	0.53321	0.01288	0.76952
1.17675	-7.91556	1.77994	-0.41574	-1.19041	0.71653	-0.00240	0.79610	0.53100	0.01177	0.78207
1.20453	-8.03399	1.78790	-0.41682	-1.17820	0.72066	-0.00243	0.78799	0.53008	0.01057	0.79525
1.23289	-8.15047	1.79600	-0.41779	-1.16600	0.72555	-0.00246	0.77473	0.53045	0.00935	0.80837
1.26183	-8.26566	1.80438	-0.41867	-1.15395	0.73109	-0.00249	0.75633	0.53214	0.00816	0.82083
1.29149	-8.38105	1.81320	-0.41947	-1.14202	0.73723	-0.00253	0.73281	0.53514	0.00709	0.83213
1.32188	-8.49637	1.82255	-0.42024	-1.13050	0.74396	-0.00256	0.70545	0.53928	0.00621	0.84168
1.35300	-8.61045	1.83250	-0.42103	-1.11987	0.75128	-0.00260	0.67642	0.54421	0.00561	0.84898
1.38485	-8.72150	1.84313	-0.42188	-1.11073	0.75915	-0.00264	0.64809	0.54955	0.00531	0.85392
1.41743	-8.82856	1.85443	-0.42281	-1.10340	0.76720	-0.00268	0.62181	0.55501	0.00531	0.85680
1.45075	-8.93120	1.86633	-0.42387	-1.09802	0.77478	-0.00271	0.59819	0.56039	0.00556	0.85810
1.48500	-9.02958	1.87878	-0.42515	-1.09459	0.78120	-0.00273	0.57757	0.56549	0.00599	0.85836
1.51999	-9.12416	1.89158	-0.42670	-1.09281	0.78555	-0.00274	0.55967	0.57018	0.00654	0.85806
1.55569	-9.21946	1.90452	-0.42850	-1.09157	0.78666	-0.00273	0.54197	0.57481	0.00719	0.85757
1.59236	-9.32114	1.91747	-0.43050	-1.08965	0.78369	-0.00272	0.52190	0.57975	0.00792	0.85706
1.62973	-9.43237	1.93013	-0.43259	-1.08618	0.77662	-0.00269	0.49837	0.58513	0.00870	0.85670
1.66806	-9.55341	1.94250	-0.43469	-1.08123	0.76638	-0.00265	0.47321	0.59042	0.00949	0.85684
1.70736	-9.68117	1.95456	-0.43671	-1.07552	0.75445	-0.00261	0.44994	0.59466	0.01022	0.85805
1.74764	-9.81219	1.96637	-0.43858	-1.06992	0.74242	-0.00257	0.43179	0.59682	0.01080	0.86080
1.78859	-9.94184	1.97788	-0.44024	-1.06528	0.73147	-0.00253	0.42160	0.59592	0.01121	0.86524
1.83083	-10.06998	1.98931	-0.44166	-1.06206	0.72222	-0.00249	0.42102	0.59129	0.01145	0.87146
1.87371	-10.19456	2.00048	-0.44275	-1.06023	0.71463	-0.00246	0.43065	0.58287	0.01152	0.87920
1.91791	-10.31649	2.01154	-0.44349	-1.05989	0.70856	-0.00242	0.45232	0.57039	0.01150	0.88814
1.96309	-10.43520	2.02237	-0.44386	-1.06087	0.70357	-0.00239	0.48695	0.55422	0.01147	0.89746

2.00924	-10.55012	2.03298	-0.44383	-1.06324	0.69982	-0.00236	0.53655	0.53467	0.01154	0.90627
2.05634	-10.66022	2.04332	-0.44336	-1.06710	0.69795	-0.00233	0.60421	0.51206	0.01177	0.91395
2.10482	-10.76658	2.05339	-0.44240	-1.07229	0.69836	-0.00230	0.69352	0.48676	0.01217	0.92029
2.15424	-10.86831	2.06301	-0.44086	-1.07860	0.70161	-0.00228	0.80720	0.45959	0.01269	0.92523
2.20507	-10.96549	2.07225	-0.43868	-1.08617	0.70814	-0.00226	0.95155	0.43077	0.01330	0.92886
2.25683	-11.05839	2.08110	-0.43582	-1.09466	0.71789	-0.00226	1.12889	0.40132	0.01399	0.93108
2.31000	-11.15129	2.08976	-0.43225	-1.10346	0.73043	-0.00226	1.34086	0.37186	0.01482	0.93164
2.36463	-11.24659	2.09835	-0.42798	-1.11209	0.74538	-0.00228	1.58674	0.34307	0.01583	0.93026
2.42014	-11.34602	2.10688	-0.42311	-1.11985	0.76178	-0.00230	1.85943	0.31579	0.01700	0.92710
2.47709	-11.45176	2.11538	-0.41766	-1.12641	0.77856	-0.00233	2.15645	0.29000	0.01828	0.92273
2.53550	-11.56394	2.12379	-0.41173	-1.13152	0.79475	-0.00235	2.47187	0.26585	0.01954	0.91815
2.59471	-11.68110	2.13204	-0.40550	-1.13507	0.80945	-0.00238	2.79562	0.24369	0.02069	0.91420
2.65604	-11.80487	2.14034	-0.39890	-1.13727	0.82272	-0.00241	3.12938	0.22308	0.02168	0.91130
2.71887	-11.93164	2.14865	-0.39211	-1.13857	0.83464	-0.00243	3.46806	0.20413	0.02248	0.90978
2.78242	-12.05789	2.15689	-0.38529	-1.13941	0.84533	-0.00245	3.80703	0.18695	0.02309	0.90974
2.84819	-12.18554	2.16525	-0.37831	-1.14001	0.85506	-0.00247	4.15053	0.17111	0.02351	0.91119
2.91545	-12.31344	2.17373	-0.37134	-1.14036	0.86368	-0.00248	4.48797	0.15682	0.02376	0.91416
2.98329	-12.44024	2.18209	-0.36447	-1.14032	0.87100	-0.00249	4.80523	0.14434	0.02384	0.91844
3.05344	-12.56997	2.19067	-0.35761	-1.13972	0.87728	-0.00250	5.10288	0.13328	0.02380	0.92385
3.12598	-12.70286	2.19930	-0.35075	-1.13844	0.88243	-0.00251	5.37346	0.12364	0.02364	0.93017
3.19898	-12.83527	2.20786	-0.34416	-1.13652	0.88649	-0.00251	5.60605	0.11557	0.02340	0.93682
3.27439	-12.97031	2.21646	-0.33762	-1.13401	0.88977	-0.00252	5.80620	0.10875	0.02310	0.94359
3.35121	-13.10545	2.22505	-0.33130	-1.13105	0.89236	-0.00252	5.97057	0.10315	0.02276	0.95009
3.43053	-13.24199	2.23366	-0.32503	-1.12778	0.89445	-0.00252	6.10329	0.09864	0.02238	0.95657
3.51124	-13.37716	2.24227	-0.31901	-1.12440	0.89621	-0.00252	6.20493	0.09516	0.02198	0.96312
3.59324	-13.51005	2.25068	-0.31313	-1.12105	0.89772	-0.00252	6.27704	0.09271	0.02156	0.97005
3.67782	-13.64333	2.25941	-0.30743	-1.11775	0.89914	-0.00252	6.32428	0.09106	0.02111	0.97775
3.76506	-13.77407	2.26780	-0.30177	-1.11476	0.90055	-0.00252	6.34729	0.09039	0.02062	0.98668
3.85356	-13.90413	2.27672	-0.29636	-1.11196	0.90202	-0.00252	6.35044	0.09035	0.02011	0.99651
3.94477	-14.02945	2.28502	-0.29102	-1.10967	0.90364	-0.00252	6.33586	0.09116	0.01957	1.00729
4.03714	-14.15481	2.29398	-0.28585	-1.10763	0.90537	-0.00252	6.30630	0.09249	0.01902	1.01843
4.13223	-14.27654	2.30255	-0.28082	-1.10598	0.90725	-0.00252	6.26538	0.09436	0.01845	1.02984
4.23012	-14.39703	2.31118	-0.27576	-1.10473	0.90930	-0.00251	6.21224	0.09682	0.01786	1.04120
4.32900	-14.51800	2.32052	-0.27095	-1.10357	0.91140	-0.00251	6.15197	0.09945	0.01731	1.05181
4.43066	-14.63175	2.32863	-0.26616	-1.10296	0.91365	-0.00251	6.08547	0.10262	0.01673	1.06197
4.53515	-14.75063	2.33806	-0.26135	-1.10243	0.91600	-0.00250	6.01111	0.10602	0.01616	1.07153
4.64253	-14.86782	2.34736	-0.25670	-1.10203	0.91841	-0.00250	5.93616	0.10948	0.01561	1.08049
4.75059	-14.97632	2.35537	-0.25207	-1.10219	0.92093	-0.00249	5.86079	0.11326	0.01504	1.08889
4.86145	-15.09366	2.36543	-0.24741	-1.10222	0.92348	-0.00249	5.78082	0.11705	0.01451	1.09671
4.97760	-15.20792	2.37470	-0.24284	-1.10243	0.92610	-0.00248	5.70422	0.12084	0.01397	1.10422
5.09424	-15.31393	2.38268	-0.23824	-1.10311	0.92878	-0.00248	5.62961	0.12482	0.01342	1.11134
5.21376	-15.43185	2.39328	-0.23358	-1.10350	0.93142	-0.00247	5.55045	0.12873	0.01290	1.11802
5.33618	-15.54395	2.40273	-0.22915	-1.10394	0.93398	-0.00247	5.47865	0.13240	0.01240	1.12438
5.46150	-15.64576	2.41012	-0.22464	-1.10489	0.93662	-0.00246	5.41080	0.13624	0.01187	1.13078
5.58971	-15.76119	2.42048	-0.21996	-1.10559	0.93923	-0.00245	5.33731	0.14009	0.01136	1.13704
5.72082	-15.87879	2.43135	-0.21550	-1.10602	0.94169	-0.00244	5.26794	0.14360	0.01090	1.14321
5.85823	-15.97871	2.43821	-0.21109	-1.10706	0.94423	-0.00244	5.20849	0.14716	0.01039	1.14988
5.99520	-16.08505	2.44686	-0.20650	-1.10806	0.94673	-0.00243	5.14553	0.15077	0.00990	1.15657
6.13497	-16.20720	2.45892	-0.20186	-1.10858	0.94910	-0.00242	5.07859	0.15420	0.00944	1.16318
6.28141	-16.31541	2.46774	-0.19758	-1.10927	0.95140	-0.00242	5.02359	0.15732	0.00901	1.17006
6.42674	-16.40591	2.47328	-0.19337	-1.11047	0.95369	-0.00241	4.97649	0.16042	0.00855	1.17711
6.57895	-16.51670	2.48281	-0.18869	-1.11144	0.95602	-0.00240	4.92012	0.16371	0.00809	1.18441
6.73401	-16.64364	2.49586	-0.18401	-1.11192	0.95823	-0.00239	4.86051	0.16680	0.00769	1.19159
6.89180	-16.74368	2.50334	-0.18002	-1.11266	0.96026	-0.00238	4.81795	0.16941	0.00731	1.19884
7.05716	-16.83031	2.50767	-0.17589	-1.11392	0.96239	-0.00238	4.78032	0.17214	0.00688	1.20656
7.22022	-16.93356	2.51604	-0.17147	-1.11492	0.96446	-0.00237	4.73561	0.17493	0.00647	1.21388
7.39098	-17.06194	2.52946	-0.16669	-1.11551	0.96654	-0.00236	4.68308	0.17776	0.00610	1.22099
7.56430	-17.17295	2.53935	-0.16269	-1.11598	0.96837	-0.00235	4.64291	0.18005	0.00578	1.22761
7.73994	-17.24445	2.54101	-0.15925	-1.11711	0.97009	-0.00234	4.61878	0.18211	0.00543	1.23408
7.92393	-17.33551	2.54647	-0.15514	-1.11820	0.97193	-0.00234	4.58568	0.18447	0.00506	1.24029
8.11030	-17.44593	2.55621	-0.15065	-1.11908	0.97379	-0.00233	4.54620	0.18691	0.00471	1.24591
8.29876	-17.58025	2.57125	-0.14596	-1.11950	0.97562	-0.00231	4.50095	0.18928	0.00442	1.25084
8.49618	-17.67778	2.57818	-0.14245	-1.12000	0.97713	-0.00231	4.47345	0.19104	0.00415	1.25555
8.69565	-17.73612	2.57690	-0.13948	-1.12103	0.97848	-0.00230	4.45851	0.19264	0.00385	1.26035
8.90472	-17.82505	2.58176	-0.13559	-1.12195	0.97999	-0.00230	4.43191	0.19459	0.00353	1.26508
9.11577	-17.92713	2.58963	-0.13142	-1.12275	0.98153	-0.00229	4.40171	0.19658	0.00324	1.26964
9.32836	-18.06401	2.60521	-0.12653	-1.12331	0.98324	-0.00227	4.36210	0.19873	0.00298	1.27398
9.54198	-18.18296	2.61729	-0.12273	-1.12352	0.98463	-0.00226	4.33242	0.20030	0.00278	1.27821
9.76563	-18.23022	2.61373	-0.12061	-1.12416	0.98550	-0.00226	4.32508	0.20133	0.00255	1.28330
10.00000	-18.29037	2.61243	-0.11775	-1.12489	0.98646	-0.00226	4.31135	0.20266	0.00229	1.28920

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Median stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 305 - 610 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.59493	3.39605	-0.04383	-1.72778	1.03720	-0.00096	1.25851	0.45264	-0.02134	0.35497
PGV	3.27107	1.98128	-0.13188	-2.74393	1.45423	-0.00135	7.93296	0.32610	-0.00537	0.37699
PGA	4.90850	1.66072	-0.07177	-3.40614	1.29352	-0.00119	9.87131	0.39026	-0.03122	0.73903
0.01000	5.68174	1.67581	-0.07149	-3.55513	1.30425	-0.00102	11.10453	0.37959	-0.01525	0.71904
0.01024	5.63277	1.67829	-0.07067	-3.54698	1.29612	-0.00102	10.99633	0.38171	-0.01532	0.71951
0.01048	5.58840	1.68073	-0.06985	-3.53966	1.28822	-0.00102	10.89532	0.38374	-0.01540	0.72000
0.01072	5.54928	1.68314	-0.06904	-3.53330	1.28055	-0.00102	10.80260	0.38568	-0.01550	0.72054
0.01097	5.51565	1.68554	-0.06823	-3.52795	1.27312	-0.00102	10.71842	0.38752	-0.01560	0.72110
0.01123	5.48702	1.68794	-0.06742	-3.52352	1.26590	-0.00101	10.64177	0.38928	-0.01571	0.72169
0.01150	5.46320	1.69033	-0.06661	-3.51998	1.25888	-0.00101	10.57239	0.39096	-0.01584	0.72230
0.01177	5.44358	1.69271	-0.06579	-3.51721	1.25203	-0.00100	10.50936	0.39257	-0.01597	0.72292
0.01205	5.42809	1.69508	-0.06497	-3.51517	1.24529	-0.00100	10.45264	0.39410	-0.01611	0.72355
0.01233	5.41734	1.69745	-0.06415	-3.51398	1.23864	-0.00099	10.40312	0.39556	-0.01626	0.72421
0.01262	5.41135	1.69982	-0.06332	-3.51365	1.23215	-0.00098	10.36064	0.39693	-0.01642	0.72489
0.01292	5.41014	1.70220	-0.06248	-3.51419	1.22582	-0.00097	10.32536	0.39822	-0.01658	0.72560
0.01322	5.41468	1.70460	-0.06165	-3.51579	1.21965	-0.00096	10.29866	0.39942	-0.01675	0.72630
0.01353	5.42586	1.70704	-0.06080	-3.51860	1.21367	-0.00095	10.28183	0.40051	-0.01692	0.72702
0.01385	5.44229	1.70951	-0.05995	-3.52236	1.20781	-0.00094	10.27259	0.40152	-0.01710	0.72777
0.01417	5.46376	1.71201	-0.05907	-3.52703	1.20199	-0.00092	10.27034	0.40245	-0.01728	0.72857
0.01451	5.49246	1.71457	-0.05819	-3.53301	1.19623	-0.00091	10.27836	0.40328	-0.01748	0.72952
0.01485	5.52848	1.71720	-0.05728	-3.54034	1.19055	-0.00089	10.29648	0.40401	-0.01770	0.73063
0.01520	5.56958	1.71987	-0.05636	-3.54860	1.18496	-0.00087	10.32105	0.40468	-0.01794	0.73186
0.01556	5.61275	1.72258	-0.05540	-3.55725	1.17940	-0.00086	10.34754	0.40532	-0.01819	0.73326
0.01592	5.65539	1.72529	-0.05442	-3.56578	1.17389	-0.00084	10.37233	0.40598	-0.01846	0.73487
0.01630	5.69858	1.72799	-0.05341	-3.57438	1.16842	-0.00082	10.39737	0.40664	-0.01875	0.73670
0.01668	5.74517	1.73070	-0.05239	-3.58356	1.16296	-0.00080	10.42687	0.40726	-0.01905	0.73859
0.01707	5.79749	1.73346	-0.05132	-3.59377	1.15743	-0.00078	10.46397	0.40780	-0.01933	0.74041
0.01748	5.85488	1.73626	-0.05024	-3.60489	1.15190	-0.00076	10.50764	0.40828	-0.01959	0.74214
0.01789	5.91428	1.73907	-0.04917	-3.61631	1.14636	-0.00074	10.55394	0.40874	-0.01984	0.74388
0.01831	5.97825	1.74188	-0.04813	-3.62847	1.14088	-0.00072	10.60738	0.40913	-0.02010	0.74568
0.01874	6.04875	1.74470	-0.04710	-3.64175	1.13555	-0.00070	10.67117	0.40940	-0.02035	0.74739
0.01918	6.12531	1.74758	-0.04605	-3.65609	1.13028	-0.00067	10.74328	0.40961	-0.02059	0.74904
0.01963	6.20329	1.75053	-0.04495	-3.67066	1.12490	-0.00065	10.81479	0.40985	-0.02085	0.75088
0.02009	6.28744	1.75355	-0.04383	-3.68632	1.11956	-0.00063	10.89430	0.41002	-0.02117	0.75306
0.02057	6.37942	1.75663	-0.04269	-3.70332	1.11426	-0.00060	10.98526	0.41010	-0.02151	0.75538
0.02105	6.46711	1.75973	-0.04152	-3.71954	1.10872	-0.00058	11.06727	0.41029	-0.02183	0.75753
0.02154	6.54142	1.76285	-0.04027	-3.73332	1.10270	-0.00055	11.12481	0.41076	-0.02213	0.75961
0.02205	6.59996	1.76591	-0.03895	-3.74419	1.09614	-0.00054	11.15463	0.41153	-0.02243	0.76172
0.02257	6.65126	1.76896	-0.03758	-3.75369	1.08898	-0.00052	11.17023	0.41247	-0.02274	0.76382
0.02310	6.71493	1.77214	-0.03620	-3.76537	1.08148	-0.00050	11.20257	0.41329	-0.02308	0.76619
0.02364	6.79393	1.77546	-0.03480	-3.77979	1.07416	-0.00047	11.25805	0.41389	-0.02351	0.76918
0.02420	6.87757	1.77883	-0.03338	-3.79497	1.06724	-0.00045	11.32131	0.41441	-0.02399	0.77248
0.02477	6.95556	1.78223	-0.03189	-3.80910	1.06045	-0.00043	11.37528	0.41504	-0.02442	0.77542
0.02535	7.01944	1.78568	-0.03031	-3.82063	1.05309	-0.00041	11.40461	0.41596	-0.02479	0.77803
0.02595	7.07467	1.78918	-0.02872	-3.83048	1.04520	-0.00040	11.41900	0.41706	-0.02519	0.78087
0.02656	7.13304	1.79264	-0.02725	-3.84063	1.03729	-0.00038	11.44094	0.41810	-0.02563	0.78396
0.02719	7.19756	1.79599	-0.02594	-3.85161	1.02947	-0.00037	11.47681	0.41899	-0.02604	0.78695
0.02783	7.25687	1.79924	-0.02466	-3.86146	1.02152	-0.00035	11.50724	0.41993	-0.02641	0.78963
0.02848	7.30234	1.80244	-0.02332	-3.86878	1.01341	-0.00035	11.51547	0.42109	-0.02670	0.79189
0.02915	7.34526	1.80578	-0.02189	-3.87583	1.00542	-0.00034	11.51611	0.42233	-0.02693	0.79381
0.02984	7.39309	1.80920	-0.02048	-3.88384	0.99762	-0.00033	11.52344	0.42350	-0.02713	0.79557
0.03054	7.43663	1.81255	-0.01912	-3.89099	0.98992	-0.00032	11.52486	0.42471	-0.02730	0.79731
0.03126	7.45515	1.81594	-0.01764	-3.89370	0.98161	-0.00032	11.48153	0.42642	-0.02746	0.79903
0.03199	7.43409	1.81941	-0.01597	-3.88937	0.97199	-0.00032	11.36716	0.42894	-0.02767	0.80123
0.03275	7.36272	1.82272	-0.01416	-3.87606	0.96163	-0.00034	11.17249	0.43231	-0.02793	0.80389
0.03352	7.25519	1.82591	-0.01228	-3.85627	0.95093	-0.00036	10.92693	0.43627	-0.02817	0.80649
0.03430	7.14273	1.82933	-0.01038	-3.83564	0.93962	-0.00039	10.67637	0.44042	-0.02836	0.80881
0.03511	7.04746	1.83292	-0.00852	-3.81802	0.92807	-0.00041	10.45416	0.44437	-0.02859	0.81144
0.03594	6.99772	1.83645	-0.00690	-3.80814	0.91707	-0.00042	10.30633	0.44752	-0.02892	0.81476
0.03678	6.97842	1.83982	-0.00545	-3.80328	0.90688	-0.00042	10.21169	0.45004	-0.02935	0.81878
0.03765	6.94967	1.84285	-0.00403	-3.79664	0.89835	-0.00044	10.11206	0.45251	-0.02974	0.82252
0.03854	6.89337	1.84545	-0.00253	-3.78527	0.89178	-0.00046	9.97883	0.45520	-0.02998	0.82530
0.03944	6.81443	1.84808	-0.00092	-3.77029	0.88671	-0.00049	9.81444	0.45821	-0.03020	0.82783
0.04037	6.70116	1.85101	0.00077	-3.74968	0.88164	-0.00053	9.59874	0.46190	-0.03046	0.83066
0.04132	6.52790	1.85384	0.00259	-3.71842	0.87466	-0.00058	9.30103	0.46676	-0.03076	0.83374
0.04229	6.31891	1.85644	0.00457	-3.68048	0.86643	-0.00063	8.96406	0.47231	-0.03108	0.83702
0.04329	6.11731	1.85888	0.00657	-3.64344	0.85780	-0.00069	8.64777	0.47779	-0.03137	0.83998
0.04431	5.93141	1.86117	0.00852	-3.60880	0.84858	-0.00074	8.35897	0.48309	-0.03154	0.84218
0.04535	5.73797	1.86325	0.01047	-3.57259	0.83841	-0.00078	8.06276	0.48868	-0.03157	0.84334

0.04642	5.54617	1.86518	0.01242	-3.53660	0.82845	-0.00083	7.77352	0.49432	-0.03150	0.84377
0.04751	5.39309	1.86721	0.01423	-3.50758	0.82007	-0.00087	7.54071	0.49918	-0.03139	0.84379
0.04863	5.25809	1.86908	0.01585	-3.48168	0.81245	-0.00091	7.33754	0.50360	-0.03128	0.84364
0.04977	5.10775	1.87058	0.01720	-3.45277	0.80498	-0.00095	7.12550	0.50819	-0.03129	0.84412
0.05094	4.95433	1.87200	0.01826	-3.42286	0.79827	-0.00100	6.92299	0.51272	-0.03156	0.84637
0.05214	4.81341	1.87356	0.01919	-3.39447	0.79214	-0.00105	6.74782	0.51695	-0.03207	0.85036
0.05337	4.67284	1.87533	0.02025	-3.36593	0.78612	-0.00111	6.58027	0.52119	-0.03258	0.85438
0.05462	4.53907	1.87702	0.02125	-3.33884	0.78060	-0.00116	6.42206	0.52526	-0.03296	0.85758
0.05591	4.40420	1.87852	0.02214	-3.31199	0.77524	-0.00121	6.25715	0.52946	-0.03313	0.85936
0.05722	4.24697	1.88025	0.02319	-3.28193	0.77010	-0.00126	6.05941	0.53440	-0.03301	0.85931
0.05857	4.05656	1.88233	0.02459	-3.24676	0.76592	-0.00131	5.82195	0.54028	-0.03275	0.85850
0.05995	3.80992	1.88428	0.02648	-3.20192	0.76105	-0.00138	5.52501	0.54770	-0.03245	0.85756
0.06136	3.53302	1.88516	0.02852	-3.15113	0.75417	-0.00145	5.20449	0.55599	-0.03202	0.85589
0.06280	3.28078	1.88440	0.03013	-3.10346	0.74635	-0.00151	4.92164	0.56364	-0.03149	0.85354
0.06428	3.08935	1.88212	0.03108	-3.06521	0.74057	-0.00156	4.71355	0.56946	-0.03100	0.85158
0.06579	2.91570	1.87914	0.03173	-3.02941	0.73686	-0.00161	4.53367	0.57457	-0.03068	0.85072
0.06734	2.74028	1.87663	0.03231	-2.99364	0.73415	-0.00166	4.35917	0.57973	-0.03052	0.85099
0.06893	2.59046	1.87446	0.03271	-2.96258	0.73308	-0.00171	4.21789	0.58404	-0.03045	0.85184
0.07055	2.44485	1.87198	0.03324	-2.93182	0.73354	-0.00177	4.08904	0.58802	-0.03042	0.85287
0.07221	2.28619	1.86908	0.03412	-2.89808	0.73466	-0.00183	3.95318	0.59235	-0.03055	0.85496
0.07391	2.12007	1.86640	0.03522	-2.86284	0.73430	-0.00190	3.81059	0.59721	-0.03086	0.85821
0.07565	1.94667	1.86422	0.03624	-2.82662	0.73050	-0.00195	3.65741	0.60284	-0.03110	0.86083
0.07743	1.74629	1.86114	0.03694	-2.78529	0.72233	-0.00200	3.47577	0.60977	-0.03127	0.86260
0.07925	1.49817	1.85555	0.03741	-2.73428	0.71232	-0.00205	3.25559	0.61820	-0.03152	0.86472
0.08111	1.22934	1.84766	0.03763	-2.67833	0.70310	-0.00209	3.02795	0.62711	-0.03193	0.86770
0.08302	0.99857	1.83954	0.03738	-2.62876	0.69476	-0.00214	2.83969	0.63490	-0.03229	0.87055
0.08498	0.82531	1.83288	0.03680	-2.59035	0.68866	-0.00217	2.70129	0.64100	-0.03244	0.87237
0.08697	0.68976	1.82801	0.03625	-2.55983	0.68528	-0.00221	2.59592	0.64594	-0.03232	0.87288
0.08902	0.58116	1.82525	0.03596	-2.53520	0.68275	-0.00224	2.51226	0.65034	-0.03184	0.87137
0.09112	0.50155	1.82328	0.03557	-2.51590	0.68017	-0.00227	2.44899	0.65399	-0.03116	0.86882
0.09326	0.44419	1.82052	0.03470	-2.50008	0.67913	-0.00229	2.40319	0.65659	-0.03056	0.86667
0.09545	0.40289	1.81717	0.03323	-2.48727	0.68035	-0.00231	2.37399	0.65801	-0.03000	0.86483
0.09770	0.37884	1.81443	0.03113	-2.47852	0.68255	-0.00233	2.36159	0.65843	-0.02950	0.86348
0.10000	0.35612	1.81207	0.02872	-2.47038	0.68436	-0.00234	2.35086	0.65880	-0.02902	0.86250
0.10235	0.30165	1.80940	0.02652	-2.45638	0.68681	-0.00237	2.31749	0.66033	-0.02847	0.86140
0.10476	0.21688	1.80615	0.02453	-2.43679	0.69031	-0.00240	2.26292	0.66293	-0.02793	0.86051
0.10723	0.08958	1.80197	0.02275	-2.40905	0.69057	-0.00244	2.17485	0.66756	-0.02746	0.86012
0.10975	-0.07000	1.79694	0.02099	-2.37499	0.68622	-0.00247	2.05952	0.67418	-0.02699	0.85972
0.11233	-0.23688	1.79059	0.01931	-2.33831	0.68050	-0.00250	1.94105	0.68133	-0.02652	0.85919
0.11498	-0.38524	1.78313	0.01762	-2.30362	0.67487	-0.00252	1.83927	0.68771	-0.02601	0.85832
0.11768	-0.52787	1.77500	0.01583	-2.26951	0.66897	-0.00254	1.74318	0.69395	-0.02540	0.85658
0.12045	-0.66418	1.76497	0.01364	-2.23535	0.66351	-0.00256	1.65063	0.70000	-0.02472	0.85400
0.12328	-0.78173	1.75360	0.01117	-2.20321	0.65863	-0.00257	1.57162	0.70520	-0.02413	0.85171
0.12619	-0.90262	1.74125	0.00879	-2.16930	0.65304	-0.00259	1.49496	0.71045	-0.02379	0.85082
0.12916	-1.03576	1.72840	0.00646	-2.13257	0.64618	-0.00260	1.41615	0.71618	-0.02373	0.85156
0.13219	-1.14877	1.71632	0.00362	-2.10007	0.64304	-0.00263	1.35397	0.72053	-0.02386	0.85351
0.13531	-1.21928	1.70796	0.00035	-2.07899	0.64994	-0.00267	1.32034	0.72219	-0.02386	0.85463
0.13849	-1.25867	1.70400	-0.00285	-2.06817	0.66487	-0.00272	1.30741	0.72189	-0.02341	0.85261
0.14175	-1.29283	1.70135	-0.00598	-2.05971	0.68023	-0.00277	1.29776	0.72137	-0.02253	0.84768
0.14508	-1.33658	1.69703	-0.00958	-2.04785	0.69010	-0.00280	1.27932	0.72183	-0.02149	0.84151
0.14850	-1.38726	1.69033	-0.01375	-2.03259	0.69471	-0.00281	1.25250	0.72309	-0.02037	0.83445
0.15199	-1.44798	1.68242	-0.01802	-2.01489	0.69681	-0.00282	1.21659	0.72520	-0.01903	0.82552
0.15557	-1.53152	1.67429	-0.02203	-1.99312	0.69506	-0.00283	1.16779	0.72888	-0.01767	0.81631
0.15923	-1.61790	1.66585	-0.02628	-1.97022	0.68971	-0.00282	1.12036	0.73274	-0.01668	0.80943
0.16298	-1.68740	1.65637	-0.03100	-1.94931	0.68539	-0.00282	1.08396	0.73532	-0.01606	0.80531
0.16681	-1.72828	1.64573	-0.03594	-1.93237	0.68535	-0.00282	1.06402	0.73571	-0.01571	0.80325
0.17074	-1.75377	1.63632	-0.04049	-1.91863	0.68919	-0.00283	1.05520	0.73492	-0.01533	0.80116
0.17475	-1.79490	1.63035	-0.04432	-1.90501	0.69609	-0.00285	1.04041	0.73525	-0.01458	0.79682
0.17887	-1.87760	1.62553	-0.04744	-1.88572	0.70295	-0.00288	1.00263	0.73851	-0.01358	0.79107
0.18307	-1.99015	1.61873	-0.05026	-1.85988	0.70492	-0.00290	0.94832	0.74394	-0.01258	0.78533
0.18738	-2.08493	1.61036	-0.05360	-1.83569	0.70144	-0.00290	0.90502	0.74818	-0.01142	0.77847
0.19179	-2.13977	1.60293	-0.05770	-1.81910	0.69829	-0.00289	0.88614	0.74926	-0.01001	0.77001
0.19631	-2.16421	1.59832	-0.06230	-1.81039	0.69972	-0.00289	0.88613	0.74786	-0.00869	0.76231
0.20092	-2.17289	1.59611	-0.06720	-1.80693	0.70499	-0.00290	0.89403	0.74543	-0.00759	0.75632
0.20565	-2.17606	1.59401	-0.07245	-1.80491	0.71272	-0.00290	0.90194	0.74283	-0.00669	0.75194
0.21049	-2.20674	1.59004	-0.07757	-1.79652	0.71908	-0.00291	0.89274	0.74237	-0.00602	0.74899
0.21544	-2.26975	1.58359	-0.08254	-1.78026	0.71989	-0.00292	0.86389	0.74454	-0.00547	0.74662
0.22051	-2.32494	1.57583	-0.08792	-1.76419	0.71901	-0.00291	0.83799	0.74616	-0.00503	0.74524
0.22570	-2.34295	1.56934	-0.09376	-1.75575	0.72229	-0.00290	0.83372	0.74451	-0.00462	0.74466
0.23101	-2.32780	1.56530	-0.09973	-1.75534	0.72790	-0.00290	0.85032	0.73997	-0.00413	0.74379
0.23645	-2.31563	1.56299	-0.10544	-1.75584	0.72893	-0.00288	0.86706	0.73601	-0.00366	0.74279
0.24201	-2.32926	1.56113	-0.11081	-1.75211	0.72451	-0.00284	0.86959	0.73456	-0.00336	0.74260
0.24771	-2.36932	1.55887	-0.11577	-1.74329	0.71949	-0.00281	0.85901	0.73500	-0.00316	0.74316
0.25354	-2.42730	1.55653	-0.12013	-1.73101	0.71617	-0.00280	0.84198	0.73630	-0.00286	0.74297
0.25950	-2.48904	1.55465	-0.12414	-1.71801	0.71438	-0.00279	0.82678	0.73738	-0.00237	0.74160
0.26561	-2.54735	1.55302	-0.12813	-1.70543	0.71340	-0.00280	0.81566	0.73790	-0.00174	0.73971
0.27186	-2.61515	1.55110	-0.13222	-1.69087	0.71072	-0.00279	0.79903	0.73934	-0.00101	0.73765
0.27826	-2.70614	1.54765	-0.13649	-1.67109	0.70389	-0.00279	0.76795	0.74300	-0.00037	0.73631
0.28480	-2.81160	1.54185	-0.14115	-1.64712	0.69353	-0.00277	0.72708	0.74811	-0.00004	0.73675
0.29150	-2.91244	1.53407	-0.14631	-1.62273	0.68206	-0.00275	0.68677	0.75305	0.00002	0.73850
0.29836	-3.00328	1.52551	-0.15165	-1.59974	0.67272	-0.00272	0.65107	0.75719	0.00014	0.73943

0.30539	-3.08646	1.51812	-0.15673	-1.57925	0.66938	-0.00271	0.62238	0.76012	0.00058	0.73787
0.31257	-3.16648	1.51246	-0.16151	-1.56065	0.67180	-0.00273	0.60054	0.76182	0.00118	0.73497
0.31993	-3.25041	1.50785	-0.16632	-1.54204	0.67534	-0.00275	0.58080	0.76327	0.00172	0.73222
0.32745	-3.33880	1.50390	-0.17140	-1.52341	0.67727	-0.00277	0.56053	0.76497	0.00210	0.73029
0.33517	-3.42192	1.50000	-0.17685	-1.50638	0.67722	-0.00278	0.54213	0.76621	0.00229	0.72936
0.34304	-3.48177	1.49615	-0.18271	-1.49425	0.67651	-0.00277	0.53206	0.76540	0.00236	0.72910
0.35112	-3.50571	1.49330	-0.18894	-1.49000	0.67856	-0.00276	0.53654	0.76115	0.00240	0.72933
0.35938	-3.49035	1.49266	-0.19530	-1.49515	0.68658	-0.00274	0.55968	0.75283	0.00249	0.72963
0.36784	-3.44889	1.49495	-0.20166	-1.50778	0.70005	-0.00274	0.59879	0.74177	0.00280	0.72840
0.37649	-3.40278	1.49965	-0.20808	-1.52348	0.71580	-0.00274	0.64455	0.73039	0.00344	0.72457
0.38536	-3.37593	1.50513	-0.21469	-1.53660	0.72929	-0.00274	0.68313	0.72113	0.00446	0.71815
0.39442	-3.38282	1.50945	-0.22147	-1.54281	0.73590	-0.00272	0.70437	0.71520	0.00576	0.71010
0.40370	-3.42366	1.51184	-0.22817	-1.54124	0.73378	-0.00269	0.70781	0.71227	0.00714	0.70191
0.41321	-3.48294	1.51287	-0.23451	-1.53504	0.72523	-0.00264	0.70241	0.71079	0.00830	0.69523
0.42292	-3.54235	1.51324	-0.24047	-1.52812	0.71512	-0.00258	0.69921	0.70881	0.00905	0.69106
0.43288	-3.59386	1.51345	-0.24621	-1.52241	0.70819	-0.00254	0.70357	0.70530	0.00942	0.68948
0.44307	-3.63555	1.51397	-0.25174	-1.51863	0.70694	-0.00251	0.71658	0.70018	0.00940	0.69058
0.45349	-3.67249	1.51570	-0.25691	-1.51660	0.71094	-0.00250	0.73511	0.69437	0.00914	0.69360
0.46417	-3.71740	1.51950	-0.26155	-1.51460	0.71809	-0.00250	0.75110	0.68958	0.00888	0.69689
0.47508	-3.77786	1.52480	-0.26577	-1.51057	0.72644	-0.00252	0.75827	0.68676	0.00876	0.69961
0.48626	-3.84348	1.53045	-0.27000	-1.50563	0.73486	-0.00254	0.76043	0.68497	0.00876	0.70212
0.49771	-3.90101	1.53658	-0.27478	-1.50289	0.74243	-0.00256	0.76458	0.68297	0.00905	0.70347
0.50942	-3.96198	1.54360	-0.28015	-1.50088	0.74646	-0.00256	0.76380	0.68189	0.00973	0.70278
0.52140	-4.04956	1.55071	-0.28564	-1.49439	0.74447	-0.00254	0.74578	0.68361	0.01055	0.70143
0.53367	-4.18124	1.55579	-0.29077	-1.47776	0.73535	-0.00253	0.70351	0.68917	0.01122	0.70100
0.54624	-4.33844	1.55762	-0.29553	-1.45322	0.72103	-0.00251	0.65070	0.69640	0.01147	0.70301
0.55910	-4.49444	1.55716	-0.30009	-1.42695	0.70481	-0.00247	0.60296	0.70270	0.01130	0.70775
0.57225	-4.63931	1.55624	-0.30454	-1.40265	0.69019	-0.00243	0.56482	0.70721	0.01093	0.71386
0.58569	-4.76807	1.55598	-0.30897	-1.38225	0.67938	-0.00240	0.53753	0.70954	0.01053	0.72012
0.59948	-4.88159	1.55645	-0.31356	-1.36549	0.67186	-0.00238	0.51944	0.70988	0.01019	0.72554
0.61357	-4.98449	1.55762	-0.31834	-1.35134	0.66646	-0.00236	0.50712	0.70894	0.00996	0.72989
0.62802	-5.08024	1.56007	-0.32325	-1.33980	0.66289	-0.00235	0.49876	0.70721	0.00985	0.73313
0.64280	-5.16639	1.56439	-0.32822	-1.33201	0.66267	-0.00235	0.49604	0.70435	0.00996	0.73485
0.65794	-5.23047	1.57061	-0.33337	-1.33036	0.66902	-0.00237	0.50596	0.69858	0.01017	0.73607
0.67340	-5.26233	1.57861	-0.33885	-1.33663	0.68320	-0.00239	0.53414	0.68887	0.01031	0.73823
0.68927	-5.27064	1.58786	-0.34463	-1.34865	0.70248	-0.00242	0.57728	0.67660	0.01038	0.74134
0.70547	-5.27902	1.59681	-0.35042	-1.36027	0.72108	-0.00244	0.62284	0.66463	0.01042	0.74494
0.72207	-5.30559	1.60406	-0.35611	-1.36668	0.73503	-0.00245	0.65999	0.65457	0.01046	0.74870
0.73910	-5.35385	1.60926	-0.36156	-1.36697	0.74402	-0.00246	0.68525	0.64648	0.01047	0.75261
0.75649	-5.42248	1.61307	-0.36657	-1.36216	0.74982	-0.00245	0.69773	0.64037	0.01045	0.75636
0.77429	-5.50808	1.61653	-0.37113	-1.35408	0.75464	-0.00245	0.69877	0.63611	0.01048	0.75902
0.79246	-5.60247	1.62033	-0.37538	-1.34500	0.76006	-0.00245	0.69335	0.63299	0.01060	0.75998
0.81116	-5.69496	1.62508	-0.37956	-1.33766	0.76704	-0.00246	0.68994	0.62966	0.01079	0.75947
0.83022	-5.77252	1.63121	-0.38376	-1.33489	0.77572	-0.00246	0.69788	0.62461	0.01097	0.75831
0.84976	-5.83662	1.63861	-0.38800	-1.33622	0.78574	-0.00246	0.71880	0.61755	0.01109	0.75708
0.86972	-5.90556	1.64664	-0.39204	-1.33713	0.79524	-0.00248	0.74220	0.61021	0.01122	0.75564
0.89023	-5.99744	1.65481	-0.39567	-1.33356	0.80201	-0.00250	0.75607	0.60437	0.01149	0.75362
0.91116	-6.11034	1.66289	-0.39883	-1.32577	0.80534	-0.00252	0.75943	0.60008	0.01192	0.75111
0.93257	-6.23514	1.67065	-0.40164	-1.31545	0.80526	-0.00254	0.75727	0.59647	0.01242	0.74867
0.95456	-6.36373	1.67787	-0.40430	-1.30396	0.80187	-0.00254	0.75414	0.59282	0.01284	0.74726
0.97704	-6.48444	1.68497	-0.40692	-1.29397	0.79666	-0.00254	0.75743	0.58811	0.01309	0.74747
1.00000	-6.58826	1.69289	-0.40954	-1.28829	0.79147	-0.00252	0.77409	0.58156	0.01325	0.74866
1.02354	-6.67714	1.70228	-0.41210	-1.28731	0.78698	-0.00250	0.80406	0.57348	0.01354	0.74948
1.04767	-6.76180	1.71287	-0.41443	-1.28866	0.78252	-0.00246	0.83938	0.56511	0.01400	0.74949
1.07227	-6.85265	1.72394	-0.41636	-1.28946	0.77738	-0.00242	0.87033	0.55767	0.01449	0.74963
1.09745	-6.95833	1.73515	-0.41779	-1.28760	0.77134	-0.00239	0.88830	0.55211	0.01477	0.75131
1.12334	-7.08598	1.74638	-0.41879	-1.28156	0.76380	-0.00235	0.88572	0.54928	0.01475	0.75538
1.14982	-7.23861	1.75766	-0.41951	-1.27084	0.75421	-0.00233	0.85956	0.54955	0.01448	0.76129
1.17675	-7.41727	1.76901	-0.42017	-1.25524	0.74169	-0.00231	0.81136	0.55292	0.01412	0.76772
1.20453	-7.61831	1.78065	-0.42088	-1.23580	0.72680	-0.00229	0.75060	0.55827	0.01372	0.77430
1.23289	-7.82771	1.79247	-0.42172	-1.21511	0.71162	-0.00228	0.69167	0.56361	0.01327	0.78100
1.26183	-8.03503	1.80452	-0.42264	-1.19532	0.69846	-0.00228	0.64375	0.56719	0.01283	0.78763
1.29149	-8.23734	1.81691	-0.42352	-1.17735	0.68871	-0.00229	0.60845	0.56830	0.01244	0.79395
1.32188	-8.43046	1.82981	-0.42427	-1.16243	0.68344	-0.00230	0.58670	0.56646	0.01217	0.79961
1.35300	-8.61286	1.84326	-0.42481	-1.15107	0.68272	-0.00233	0.57770	0.56167	0.01212	0.80411
1.38485	-8.78532	1.85701	-0.42508	-1.14272	0.68578	-0.00236	0.58036	0.55413	0.01227	0.80736
1.41743	-8.94719	1.87062	-0.42506	-1.13686	0.69178	-0.00239	0.59575	0.54364	0.01262	0.80951
1.45075	-9.09644	1.88365	-0.42487	-1.13327	0.70001	-0.00242	0.62662	0.52985	0.01316	0.81054
1.48500	-9.23689	1.89590	-0.42460	-1.13086	0.70917	-0.00245	0.67190	0.51332	0.01387	0.81048
1.51999	-9.36946	1.90728	-0.42424	-1.12914	0.71903	-0.00248	0.73000	0.49497	0.01467	0.81000
1.55569	-9.49479	1.91800	-0.42376	-1.12807	0.72954	-0.00251	0.80026	0.47555	0.01546	0.80981
1.59236	-9.61530	1.92835	-0.42315	-1.12738	0.74038	-0.00253	0.88198	0.45564	0.01620	0.81022
1.62973	-9.73104	1.93843	-0.42243	-1.12689	0.75080	-0.00255	0.97381	0.43588	0.01686	0.81157
1.66806	-9.84535	1.94844	-0.42154	-1.12612	0.75995	-0.00257	1.07251	0.41685	0.01736	0.81428
1.70736	-9.96138	1.95862	-0.42044	-1.12458	0.76730	-0.00258	1.17180	0.39934	0.01769	0.81857
1.74764	-10.08023	1.96918	-0.41913	-1.12222	0.77314	-0.00258	1.26657	0.38375	0.01786	0.82449
1.78859	-10.20011	1.98012	-0.41769	-1.11932	0.77820	-0.00258	1.35310	0.37032	0.01784	0.83210
1.83083	-10.32268	1.99159	-0.41615	-1.11584	0.78293	-0.00258	1.42886	0.35895	0.01762	0.84162
1.87371	-10.44588	2.00336	-0.41461	-1.11181	0.78725	-0.00259	1.48960	0.34984	0.01721	0.85271
1.91791	-10.57088	2.01553	-0.41314	-1.10727	0.79105	-0.00258	1.53517	0.34272	0.01668	0.86504
1.96309	-10.69495	2.02793	-0.41186	-1.10257	0.79417	-0.00258	1.56728	0.33732	0.01609	0.87779

2.00924	-10.81664	2.04049	-0.41082	-1.09807	0.79659	-0.00258	1.58862	0.33334	0.01553	0.89027
2.05634	-10.93480	2.05318	-0.41003	-1.09405	0.79843	-0.00257	1.60194	0.33049	0.01502	0.90197
2.10482	-11.04918	2.06608	-0.40949	-1.09081	0.79998	-0.00255	1.61077	0.32843	0.01459	0.91272
2.15424	-11.15773	2.07905	-0.40918	-1.08860	0.80150	-0.00254	1.61871	0.32689	0.01422	0.92230
2.20507	-11.26063	2.09219	-0.40911	-1.08758	0.80320	-0.00252	1.62992	0.32550	0.01389	0.93073
2.25683	-11.35680	2.10532	-0.40924	-1.08777	0.80524	-0.00250	1.64728	0.32398	0.01361	0.93804
2.31000	-11.44727	2.11855	-0.40953	-1.08921	0.80774	-0.00247	1.67394	0.32204	0.01337	0.94438
2.36463	-11.53179	2.13185	-0.40993	-1.09201	0.81083	-0.00245	1.71404	0.31931	0.01317	0.94976
2.42014	-11.61019	2.14506	-0.41033	-1.09612	0.81441	-0.00243	1.76951	0.31564	0.01303	0.95416
2.47709	-11.68553	2.15832	-0.41066	-1.10124	0.81808	-0.00240	1.84025	0.31101	0.01296	0.95762
2.53550	-11.76029	2.17163	-0.41084	-1.10694	0.82121	-0.00237	1.92446	0.30557	0.01299	0.96026
2.59471	-11.83557	2.18480	-0.41078	-1.11281	0.82371	-0.00234	2.01951	0.29946	0.01311	0.96223
2.65604	-11.91483	2.19806	-0.41039	-1.11868	0.82579	-0.00230	2.12593	0.29262	0.01332	0.96380
2.71887	-11.99877	2.21116	-0.40963	-1.12409	0.82748	-0.00227	2.23987	0.28524	0.01357	0.96538
2.78242	-12.08821	2.22392	-0.40842	-1.12863	0.82875	-0.00224	2.35675	0.27755	0.01388	0.96722
2.84819	-12.18520	2.23654	-0.40667	-1.13241	0.82990	-0.00221	2.48102	0.26922	0.01422	0.96962
2.91545	-12.28577	2.24877	-0.40444	-1.13581	0.83154	-0.00218	2.61707	0.26015	0.01457	0.97290
2.98329	-12.38877	2.26038	-0.40167	-1.13880	0.83393	-0.00216	2.76541	0.25044	0.01492	0.97690
3.05344	-12.49528	2.27161	-0.39838	-1.14151	0.83700	-0.00215	2.93331	0.23980	0.01527	0.98175
3.12598	-12.60869	2.28258	-0.39445	-1.14349	0.84009	-0.00213	3.11789	0.22847	0.01566	0.98703
3.19898	-12.72474	2.29300	-0.39010	-1.14475	0.84283	-0.00212	3.31276	0.21696	0.01606	0.99239
3.27439	-12.84917	2.30329	-0.38519	-1.14506	0.84492	-0.00211	3.51799	0.20524	0.01654	0.99732
3.35121	-12.97731	2.31325	-0.37994	-1.14476	0.84684	-0.00210	3.73259	0.19351	0.01707	1.00158
3.43053	-13.11119	2.32315	-0.37419	-1.14412	0.84916	-0.00210	3.96248	0.18163	0.01772	1.00498
3.51124	-13.24689	2.33274	-0.36816	-1.14314	0.85221	-0.00210	4.19992	0.17000	0.01843	1.00779
3.59324	-13.38523	2.34200	-0.36176	-1.14186	0.85630	-0.00211	4.44369	0.15875	0.01923	1.00998
3.67782	-13.52410	2.35109	-0.35516	-1.14055	0.86146	-0.00212	4.69628	0.14782	0.02004	1.01261
3.76506	-13.66749	2.35989	-0.34817	-1.13871	0.86738	-0.00214	4.94083	0.13784	0.02087	1.01561
3.85356	-13.81166	2.36862	-0.34121	-1.13626	0.87321	-0.00216	5.16933	0.12877	0.02161	1.01963
3.94477	-13.96273	2.37692	-0.33401	-1.13245	0.87818	-0.00218	5.35470	0.12137	0.02230	1.02403
4.03714	-14.11677	2.38539	-0.32683	-1.12776	0.88238	-0.00221	5.50524	0.11509	0.02290	1.02892
4.13223	-14.27501	2.39350	-0.31971	-1.12190	0.88533	-0.00223	5.59758	0.11058	0.02337	1.03421
4.23012	-14.44057	2.40164	-0.31244	-1.11475	0.88697	-0.00226	5.62812	0.10779	0.02374	1.03944
4.32900	-14.60328	2.40999	-0.30550	-1.10757	0.88797	-0.00228	5.62714	0.10598	0.02399	1.04464
4.43066	-14.76179	2.41740	-0.29861	-1.10077	0.88821	-0.00230	5.58785	0.10580	0.02408	1.04963
4.53515	-14.91945	2.42545	-0.29176	-1.09447	0.88819	-0.00231	5.53855	0.10613	0.02404	1.05468
4.64253	-15.06813	2.43311	-0.28527	-1.08940	0.88808	-0.00232	5.48928	0.10697	0.02383	1.06003
4.75059	-15.20483	2.43962	-0.27898	-1.08568	0.88769	-0.00232	5.43212	0.10884	0.02341	1.06560
4.86145	-15.34068	2.44736	-0.27281	-1.08275	0.88768	-0.00232	5.38246	0.11068	0.02287	1.07148
4.97760	-15.46984	2.45440	-0.26693	-1.08068	0.88796	-0.00232	5.32974	0.11307	0.02220	1.07782
5.09424	-15.58827	2.46037	-0.26125	-1.07964	0.88850	-0.00232	5.26966	0.11630	0.02139	1.08453
5.21376	-15.71100	2.46818	-0.25563	-1.07882	0.88949	-0.00231	5.21091	0.11944	0.02052	1.09143
5.33618	-15.82692	2.47518	-0.25042	-1.07830	0.89070	-0.00231	5.14973	0.12279	0.01966	1.09836
5.46150	-15.93363	2.48057	-0.24533	-1.07840	0.89202	-0.00230	5.07876	0.12694	0.01870	1.10570
5.58971	-16.04858	2.48820	-0.24014	-1.07839	0.89359	-0.00230	5.00580	0.13099	0.01773	1.11326
5.72082	-16.16374	2.49634	-0.23522	-1.07829	0.89524	-0.00229	4.93787	0.13471	0.01683	1.12074
5.85823	-16.26442	2.50136	-0.23052	-1.07897	0.89695	-0.00229	4.86972	0.13896	0.01591	1.12872
5.99520	-16.36829	2.50777	-0.22572	-1.07971	0.89878	-0.00228	4.80013	0.14321	0.01499	1.13685
6.13497	-16.48450	2.51702	-0.22081	-1.07996	0.90064	-0.00227	4.73161	0.14706	0.01414	1.14491
6.28141	-16.58890	2.52380	-0.21631	-1.08062	0.90255	-0.00227	4.67339	0.15072	0.01337	1.15302
6.42674	-16.67676	2.52789	-0.21208	-1.08204	0.90450	-0.00226	4.62108	0.15453	0.01260	1.16117
6.57895	-16.78192	2.53525	-0.20733	-1.08306	0.90652	-0.00226	4.56157	0.15838	0.01183	1.16970
6.73401	-16.90179	2.54569	-0.20242	-1.08336	0.90842	-0.00225	4.50009	0.16187	0.01112	1.17808
6.89180	-16.99758	2.55160	-0.19835	-1.08429	0.91034	-0.00224	4.45623	0.16492	0.01051	1.18621
7.05716	-17.08021	2.55478	-0.19434	-1.08607	0.91248	-0.00223	4.41848	0.16818	0.00988	1.19468
7.22022	-17.17771	2.56140	-0.18994	-1.08727	0.91449	-0.00223	4.37379	0.17135	0.00928	1.20280
7.39098	-17.29932	2.57247	-0.18498	-1.08766	0.91637	-0.00222	4.31981	0.17448	0.00869	1.21079
7.56430	-17.40542	2.58070	-0.18081	-1.08816	0.91816	-0.00221	4.27934	0.17704	0.00821	1.21807
7.73994	-17.47307	2.58171	-0.17760	-1.09001	0.92018	-0.00220	4.25979	0.17936	0.00776	1.22490
7.92393	-17.55874	2.58598	-0.17366	-1.09158	0.92222	-0.00219	4.23060	0.18194	0.00727	1.23154
8.11030	-17.66327	2.59404	-0.16918	-1.09256	0.92413	-0.00219	4.19273	0.18457	0.00680	1.23768
8.29876	-17.79220	2.60697	-0.16417	-1.09259	0.92576	-0.00217	4.14473	0.18717	0.00637	1.24321
8.49618	-17.88571	2.61286	-0.16061	-1.09335	0.92746	-0.00217	4.11922	0.18911	0.00601	1.24828
8.69565	-17.93928	2.61129	-0.15809	-1.09542	0.92941	-0.00216	4.11342	0.19076	0.00567	1.25321
8.90472	-18.02247	2.61518	-0.15444	-1.09694	0.93132	-0.00215	4.09264	0.19280	0.00528	1.25822
9.11577	-18.11888	2.62183	-0.15037	-1.09808	0.93312	-0.00214	4.06586	0.19491	0.00490	1.26313
9.32836	-18.25111	2.63557	-0.14515	-1.09827	0.93469	-0.00213	4.02243	0.19732	0.00453	1.26798
9.54198	-18.36698	2.64637	-0.14102	-1.09829	0.93604	-0.00212	3.98978	0.19914	0.00424	1.27264
9.76563	-18.40939	2.64283	-0.13941	-1.10012	0.93769	-0.00212	3.99381	0.20009	0.00399	1.27775
10.00000	-18.46318	2.64127	-0.13710	-1.10205	0.93947	-0.00211	3.99178	0.20135	0.00369	1.28375

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Median stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 610 - 1220 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.80201	3.39551	-0.04260	-1.68240	0.99776	-0.00095	1.06419	0.47284	-0.02028	0.34511
PGV	4.36962	2.04917	-0.11760	-3.03057	1.52758	-0.00096	10.42933	0.30085	-0.01302	0.42157
PGA	7.48153	1.72370	-0.07416	-3.94237	1.34141	-0.00036	14.19815	0.35407	-0.03637	0.77791
0.01000	8.46176	1.73913	-0.07378	-4.12644	1.35103	-0.00015	15.91365	0.34405	-0.02238	0.75928
0.01024	8.39616	1.74158	-0.07292	-4.11520	1.34217	-0.00016	15.75638	0.34610	-0.02242	0.75963
0.01048	8.33830	1.74401	-0.07207	-4.10537	1.33363	-0.00016	15.61262	0.34805	-0.02248	0.75999
0.01072	8.28576	1.74642	-0.07122	-4.09652	1.32532	-0.00016	15.47790	0.34993	-0.02254	0.76039
0.01097	8.23846	1.74880	-0.07037	-4.08862	1.31724	-0.00016	15.35210	0.35174	-0.02262	0.76082
0.01123	8.19860	1.75118	-0.06953	-4.08207	1.30938	-0.00016	15.23923	0.35345	-0.02271	0.76128
0.01150	8.16733	1.75357	-0.06868	-4.07708	1.30174	-0.00016	15.14140	0.35506	-0.02281	0.76178
0.01177	8.14310	1.75596	-0.06784	-4.07335	1.29430	-0.00015	15.05579	0.35657	-0.02292	0.76232
0.01205	8.12417	1.75833	-0.06700	-4.07058	1.28703	-0.00015	14.97919	0.35801	-0.02305	0.76288
0.01233	8.10992	1.76070	-0.06616	-4.06865	1.27992	-0.00014	14.91037	0.35939	-0.02318	0.76347
0.01262	8.09992	1.76307	-0.06531	-4.06749	1.27294	-0.00013	14.84839	0.36071	-0.02332	0.76408
0.01292	8.09765	1.76546	-0.06447	-4.06771	1.26615	-0.00012	14.79938	0.36194	-0.02347	0.76471
0.01322	8.10420	1.76789	-0.06362	-4.06953	1.25951	-0.00011	14.76525	0.36306	-0.02362	0.76536
0.01353	8.11849	1.77033	-0.06276	-4.07274	1.25303	-0.00010	14.74388	0.36408	-0.02379	0.76603
0.01385	8.14108	1.77281	-0.06189	-4.07745	1.24667	-0.00008	14.73602	0.36500	-0.02396	0.76677
0.01417	8.17052	1.77533	-0.06101	-4.08339	1.24039	-0.00007	14.73893	0.36584	-0.02414	0.76761
0.01451	8.20637	1.77787	-0.06011	-4.09047	1.23415	-0.00005	14.75174	0.36661	-0.02435	0.76857
0.01485	8.24943	1.78046	-0.05921	-4.09884	1.22796	-0.00003	14.77596	0.36730	-0.02455	0.76960
0.01520	8.30047	1.78308	-0.05830	-4.10863	1.22182	-0.00001	14.81283	0.36790	-0.02476	0.77064
0.01556	8.35991	1.78577	-0.05736	-4.11992	1.21578	0.00001	14.86241	0.36842	-0.02496	0.77174
0.01592	8.42452	1.78850	-0.05640	-4.13215	1.20984	0.00003	14.91860	0.36890	-0.02517	0.77298
0.01630	8.49095	1.79125	-0.05541	-4.14468	1.20382	0.00006	14.97609	0.36937	-0.02541	0.77442
0.01668	8.55559	1.79400	-0.05440	-4.15686	1.19767	0.00008	15.02841	0.36989	-0.02567	0.77608
0.01707	8.61901	1.79678	-0.05334	-4.16881	1.19141	0.00010	15.07593	0.37045	-0.02594	0.77791
0.01748	8.68700	1.79962	-0.05226	-4.18157	1.18522	0.00012	15.12954	0.37098	-0.02623	0.77985
0.01789	8.76221	1.80249	-0.05117	-4.19562	1.17931	0.00015	15.19497	0.37142	-0.02652	0.78179
0.01831	8.84320	1.80537	-0.05008	-4.21067	1.17362	0.00017	15.27000	0.37179	-0.02679	0.78370
0.01874	8.92467	1.80822	-0.04898	-4.22572	1.16783	0.00020	15.34479	0.37216	-0.02705	0.78545
0.01918	9.00568	1.81108	-0.04786	-4.24063	1.16177	0.00022	15.41624	0.37257	-0.02728	0.78703
0.01963	9.08918	1.81400	-0.04672	-4.25594	1.15535	0.00025	15.48871	0.37300	-0.02749	0.78850
0.02009	9.18364	1.81702	-0.04559	-4.27314	1.14866	0.00028	15.57738	0.37336	-0.02773	0.79013
0.02057	9.29234	1.82010	-0.04447	-4.29277	1.14183	0.00031	15.68946	0.37357	-0.02804	0.79225
0.02105	9.40576	1.82318	-0.04337	-4.31315	1.13510	0.00034	15.80963	0.37373	-0.02841	0.79476
0.02154	9.51941	1.82622	-0.04226	-4.33348	1.12873	0.00037	15.93072	0.37388	-0.02877	0.79718
0.02205	9.63877	1.82928	-0.04112	-4.35477	1.12260	0.00040	16.06073	0.37397	-0.02908	0.79925
0.02257	9.76558	1.83249	-0.03991	-4.37742	1.11627	0.00043	16.19843	0.37404	-0.02938	0.80129
0.02310	9.89638	1.83584	-0.03862	-4.40078	1.10949	0.00046	16.33722	0.37416	-0.02969	0.80344
0.02364	10.02028	1.83920	-0.03729	-4.42281	1.10225	0.00050	16.46081	0.37442	-0.03000	0.80553
0.02420	10.12483	1.84241	-0.03598	-4.44119	1.09457	0.00052	16.55134	0.37491	-0.03030	0.80759
0.02477	10.21368	1.84549	-0.03469	-4.45656	1.08695	0.00055	16.61743	0.37554	-0.03064	0.80989
0.02535	10.30990	1.84863	-0.03340	-4.47313	1.07985	0.00057	16.69829	0.37608	-0.03104	0.81265
0.02595	10.42619	1.85188	-0.03211	-4.49312	1.07302	0.00059	16.81533	0.37640	-0.03150	0.81579
0.02656	9.87670	1.85275	-0.02888	-4.39302	1.04623	0.00049	15.75879	0.38513	-0.03189	0.81857
0.02719	10.61585	1.85852	-0.02939	-4.52552	1.05687	0.00063	16.95673	0.37778	-0.03234	0.82171
0.02783	10.65241	1.86191	-0.02791	-4.53170	1.04811	0.00064	16.91182	0.37925	-0.03273	0.82453
0.02848	10.66026	1.86524	-0.02637	-4.53277	1.03979	0.00065	16.81667	0.38105	-0.03313	0.82756
0.02915	10.64170	1.86838	-0.02481	-4.52896	1.03136	0.00064	16.68022	0.38311	-0.03352	0.83057
0.02984	10.59760	1.87131	-0.02321	-4.52048	1.02261	0.00063	16.50356	0.38545	-0.03383	0.83316
0.03054	10.57100	1.87422	-0.02166	-4.51494	1.01445	0.00062	16.36341	0.38753	-0.03407	0.83541
0.03126	10.59683	1.87718	-0.02022	-4.51839	1.00712	0.00062	16.32102	0.38894	-0.03437	0.83810
0.03199	10.64897	1.88030	-0.01884	-4.52635	0.99954	0.00063	16.32180	0.39009	-0.03474	0.84131
0.03275	10.68325	1.88354	-0.01747	-4.53125	0.99102	0.00063	16.28233	0.39157	-0.03502	0.84396
0.03352	10.66070	1.88666	-0.01606	-4.52618	0.98118	0.00062	16.13842	0.39382	-0.03513	0.84558
0.03430	10.58847	1.88968	-0.01453	-4.51227	0.97064	0.00061	15.91017	0.39671	-0.03515	0.84668
0.03511	10.52845	1.89264	-0.01300	-4.50022	0.96081	0.00059	15.71394	0.39938	-0.03521	0.84804
0.03594	10.50102	1.89541	-0.01162	-4.49337	0.95116	0.00058	15.58512	0.40156	-0.03539	0.85028
0.03678	10.48035	1.89792	-0.01046	-4.48720	0.94109	0.00057	15.47685	0.40361	-0.03570	0.85340
0.03765	10.42523	1.90026	-0.00948	-4.47490	0.93111	0.00055	15.31737	0.40601	-0.03602	0.85658
0.03854	10.27576	1.90261	-0.00833	-4.44650	0.92103	0.00051	14.99890	0.40962	-0.03626	0.85931
0.03944	10.05566	1.90485	-0.00697	-4.40600	0.91054	0.00046	14.56484	0.41418	-0.03644	0.86166
0.04037	9.84954	1.90683	-0.00566	-4.36761	0.90009	0.00041	14.16446	0.41856	-0.03664	0.86403
0.04132	9.71706	1.90888	-0.00454	-4.34162	0.89051	0.00037	13.89298	0.42198	-0.03699	0.86731
0.04229	9.63862	1.91111	-0.00352	-4.32490	0.88221	0.00034	13.71212	0.42469	-0.03740	0.87107
0.04329	9.56449	1.91326	-0.00256	-4.30887	0.87369	0.00031	13.53834	0.42736	-0.03779	0.87460
0.04431	9.47892	1.91531	-0.00164	-4.29096	0.86442	0.00029	13.34802	0.43020	-0.03809	0.87751
0.04535	9.36557	1.91714	-0.00065	-4.26844	0.85623	0.00025	13.12080	0.43328	-0.03838	0.88026

0.04642	9.17757	1.91879	0.00071	-4.23320	0.84897	0.00020	12.78047	0.43736	-0.03871	0.88332
0.04751	8.89816	1.92034	0.00246	-4.18216	0.84095	0.00013	12.30245	0.44285	-0.03905	0.88633
0.04863	8.59205	1.92181	0.00430	-4.12630	0.83266	0.00006	11.79508	0.44885	-0.03945	0.88978
0.04977	8.32316	1.92343	0.00603	-4.07662	0.82559	-0.00002	11.35798	0.45435	-0.03989	0.89346
0.05094	8.10240	1.92471	0.00749	-4.03471	0.82018	-0.00008	11.01159	0.45899	-0.04031	0.89701
0.05214	7.85933	1.92543	0.00890	-3.98842	0.81443	-0.00016	10.64405	0.46394	-0.04068	0.90025
0.05337	7.55263	1.92603	0.01048	-3.93134	0.80656	-0.00024	10.18440	0.47016	-0.04084	0.90204
0.05462	7.24007	1.92667	0.01203	-3.87372	0.79728	-0.00031	9.71696	0.47675	-0.04076	0.90220
0.05591	6.95850	1.92716	0.01346	-3.82152	0.78844	-0.00038	9.29965	0.48294	-0.04055	0.90144
0.05722	6.66762	1.92734	0.01493	-3.76733	0.77930	-0.00044	8.88219	0.48938	-0.04024	0.89992
0.05857	6.32299	1.92702	0.01661	-3.70313	0.76852	-0.00052	8.41216	0.49689	-0.03994	0.89859
0.05995	5.93576	1.92606	0.01847	-3.63062	0.75751	-0.00061	7.91148	0.50525	-0.03984	0.89875
0.06136	5.55955	1.92483	0.02024	-3.55941	0.74834	-0.00071	7.44754	0.51346	-0.03986	0.89983
0.06280	5.25773	1.92366	0.02166	-3.50118	0.74200	-0.00079	7.09091	0.52019	-0.03996	0.90141
0.06428	5.06851	1.92244	0.02250	-3.46267	0.73900	-0.00086	6.88079	0.52444	-0.04014	0.90356
0.06579	4.94351	1.92147	0.02302	-3.43570	0.73817	-0.00091	6.75142	0.52724	-0.04028	0.90555
0.06734	4.82090	1.92099	0.02355	-3.40967	0.73748	-0.00097	6.62513	0.53006	-0.04034	0.90720
0.06893	4.66300	1.92062	0.02423	-3.37744	0.73403	-0.00102	6.45457	0.53391	-0.04032	0.90854
0.07055	4.47617	1.92052	0.02490	-3.34047	0.72817	-0.00108	6.24272	0.53879	-0.04006	0.90823
0.07221	4.29915	1.92067	0.02515	-3.30605	0.72365	-0.00113	6.03861	0.54356	-0.03951	0.90580
0.07391	4.13394	1.91987	0.02499	-3.27369	0.72210	-0.00118	5.85467	0.54772	-0.03885	0.90242
0.07565	3.96462	1.91761	0.02470	-3.23977	0.72224	-0.00123	5.67420	0.55166	-0.03836	0.90000
0.07743	3.79587	1.91448	0.02438	-3.20516	0.72251	-0.00129	5.49561	0.55561	-0.03833	0.90059
0.07925	3.63533	1.91077	0.02396	-3.17113	0.72247	-0.00134	5.32672	0.55947	-0.03867	0.90363
0.08111	3.44891	1.90628	0.02364	-3.13171	0.72017	-0.00139	5.13144	0.56414	-0.03911	0.90721
0.08302	3.24763	1.90112	0.02335	-3.08924	0.71581	-0.00144	4.92133	0.56937	-0.03960	0.91120
0.08498	3.00298	1.89598	0.02335	-3.03956	0.70989	-0.00150	4.66751	0.57603	-0.03992	0.91427
0.08697	2.70973	1.89159	0.02380	-2.98262	0.70562	-0.00157	4.37275	0.58416	-0.03983	0.91479
0.08902	2.41573	1.88840	0.02455	-2.92672	0.70430	-0.00164	4.09251	0.59238	-0.03951	0.91408
0.09112	2.15373	1.88677	0.02551	-2.87724	0.70452	-0.00172	3.85572	0.59996	-0.03916	0.91343
0.09326	1.92227	1.88540	0.02650	-2.83298	0.70379	-0.00179	3.65502	0.60690	-0.03876	0.91234
0.09545	1.71687	1.88248	0.02686	-2.79234	0.70068	-0.00184	3.48109	0.61312	-0.03813	0.90941
0.09770	1.48153	1.87653	0.02663	-2.74483	0.69589	-0.00189	3.28034	0.62027	-0.03724	0.90456
0.10000	1.18815	1.86745	0.02630	-2.68483	0.68917	-0.00194	3.03097	0.62960	-0.03632	0.89990
0.10235	0.89861	1.85704	0.02580	-2.62385	0.68155	-0.00199	2.79319	0.63922	-0.03558	0.89685
0.10476	0.67943	1.84713	0.02457	-2.57489	0.67440	-0.00203	2.62205	0.64662	-0.03491	0.89456
0.10723	0.53776	1.83793	0.02237	-2.53961	0.66784	-0.00206	2.51869	0.65119	-0.03445	0.89378
0.10975	0.41595	1.82906	0.01979	-2.50813	0.65914	-0.00207	2.43179	0.65519	-0.03423	0.89451
0.11233	0.26830	1.82060	0.01746	-2.47297	0.64744	-0.00207	2.31991	0.66083	-0.03415	0.89625
0.11498	0.12399	1.81235	0.01537	-2.43889	0.63696	-0.00208	2.20987	0.66656	-0.03413	0.89824
0.11768	0.01893	1.80340	0.01303	-2.41118	0.63109	-0.00209	2.13757	0.66994	-0.03411	0.90008
0.12045	-0.08304	1.79284	0.01048	-2.38273	0.62680	-0.00210	2.07374	0.67259	-0.03409	0.90200
0.12328	-0.23222	1.78147	0.00842	-2.34517	0.62036	-0.00212	1.97479	0.67761	-0.03395	0.90312
0.12619	-0.40405	1.76976	0.00663	-2.30320	0.61328	-0.00215	1.85865	0.68415	-0.03356	0.90229
0.12916	-0.55313	1.75760	0.00446	-2.26505	0.60782	-0.00217	1.75918	0.68980	-0.03290	0.89950
0.13219	-0.65521	1.74641	0.00163	-2.23645	0.60499	-0.00218	1.69142	0.69336	-0.03204	0.89527
0.13531	-0.73174	1.73742	-0.00147	-2.21425	0.60427	-0.00219	1.64006	0.69607	-0.03104	0.88984
0.13849	-0.80538	1.72987	-0.00460	-2.19339	0.60438	-0.00220	1.59125	0.69898	-0.02994	0.88336
0.14175	-0.87826	1.72348	-0.00782	-2.17322	0.60526	-0.00222	1.54593	0.70194	-0.02881	0.87637
0.14508	-0.94866	1.71793	-0.01106	-2.15381	0.60731	-0.00224	1.50790	0.70446	-0.02786	0.87046
0.14850	-1.02150	1.71163	-0.01421	-2.13315	0.61124	-0.00226	1.47354	0.70650	-0.02711	0.86582
0.15199	-1.08750	1.70448	-0.01756	-2.11327	0.61636	-0.00229	1.44398	0.70791	-0.02652	0.86183
0.15557	-1.14506	1.69825	-0.02130	-2.09624	0.61992	-0.00231	1.41711	0.70917	-0.02601	0.85818
0.15923	-1.20166	1.69271	-0.02539	-2.08051	0.62117	-0.00233	1.38937	0.71055	-0.02555	0.85487
0.16298	-1.25674	1.68593	-0.02972	-2.06431	0.62216	-0.00234	1.36420	0.71141	-0.02516	0.85213
0.16681	-1.30858	1.67858	-0.03398	-2.04888	0.62702	-0.00236	1.34338	0.71146	-0.02471	0.84939
0.17074	-1.36142	1.67232	-0.03796	-2.03475	0.63761	-0.00239	1.32268	0.71132	-0.02407	0.84589
0.17475	-1.41757	1.66776	-0.04167	-2.02131	0.65228	-0.00244	1.30110	0.71141	-0.02344	0.84286
0.17887	-1.46301	1.66441	-0.04555	-2.01048	0.66783	-0.00248	1.28745	0.71094	-0.02313	0.84214
0.18307	-1.51969	1.66133	-0.04953	-1.99789	0.67911	-0.00252	1.26603	0.71150	-0.02285	0.84179
0.18738	-1.61654	1.65776	-0.05318	-1.97787	0.68389	-0.00254	1.21897	0.71496	-0.02214	0.83892
0.19179	-1.73513	1.65305	-0.05660	-1.95274	0.68230	-0.00256	1.15968	0.72011	-0.02120	0.83454
0.19631	-1.84325	1.64683	-0.06042	-1.92789	0.67312	-0.00255	1.10414	0.72529	-0.02039	0.83107
0.20092	-1.93534	1.63824	-0.06501	-1.90367	0.65745	-0.00251	1.05481	0.72992	-0.01984	0.82935
0.20565	-2.00748	1.62682	-0.07036	-1.88041	0.64190	-0.00247	1.01690	0.73283	-0.01941	0.82858
0.21049	-2.03992	1.61456	-0.07632	-1.86386	0.63411	-0.00244	1.00204	0.73230	-0.01903	0.82840
0.21544	-2.05384	1.60407	-0.08224	-1.85267	0.63248	-0.00241	0.99958	0.73010	-0.01866	0.82853
0.22051	-2.08208	1.59723	-0.08733	-1.84225	0.63340	-0.00240	0.99486	0.72859	-0.01831	0.82860
0.22570	-2.11233	1.59349	-0.09193	-1.83408	0.63828	-0.00241	0.99582	0.72664	-0.01780	0.82725
0.23101	-2.14298	1.58986	-0.09673	-1.82549	0.64435	-0.00242	0.99879	0.72441	-0.01713	0.82484
0.23645	-2.18116	1.58581	-0.10186	-1.81469	0.64853	-0.00243	0.99556	0.72304	-0.01652	0.82285
0.24201	-2.22724	1.58315	-0.10671	-1.80363	0.65366	-0.00245	0.98692	0.72261	-0.01590	0.82062
0.24771	-2.28978	1.58084	-0.11101	-1.79026	0.66025	-0.00247	0.96866	0.72344	-0.01516	0.81739
0.25354	-2.35980	1.57642	-0.11543	-1.77432	0.66677	-0.00248	0.94477	0.72458	-0.01449	0.81462
0.25950	-2.42040	1.57065	-0.12023	-1.75920	0.67194	-0.00249	0.92590	0.72481	-0.01409	0.81399
0.26561	-2.47797	1.56540	-0.12512	-1.74467	0.67483	-0.00249	0.91020	0.72487	-0.01356	0.81258
0.27186	-2.53535	1.56108	-0.12995	-1.73051	0.67495	-0.00249	0.89448	0.72537	-0.01255	0.80780
0.27826	-2.58783	1.55806	-0.13462	-1.71824	0.67219	-0.00247	0.87915	0.72629	-0.01123	0.80072
0.28480	-2.65211	1.55689	-0.13883	-1.70565	0.66821	-0.00245	0.85503	0.72892	-0.00974	0.79249
0.29150	-2.74007	1.55711	-0.14264	-1.69041	0.66120	-0.00242	0.81720	0.73402	-0.00829	0.78459
0.29836	-2.83728	1.55853	-0.14629	-1.67488	0.64902	-0.00239	0.77712	0.74003	-0.00711	0.77827

0.30539	-2.91966	1.56016	-0.15015	-1.66225	0.63530	-0.00234	0.74968	0.74417	-0.00643	0.77489
0.31257	-2.97960	1.55970	-0.15454	-1.65147	0.62691	-0.00232	0.73832	0.74498	-0.00623	0.77439
0.31993	-3.03446	1.55595	-0.15967	-1.63813	0.62554	-0.00233	0.73144	0.74405	-0.00613	0.77473
0.32745	-3.10301	1.54938	-0.16542	-1.61960	0.62597	-0.00235	0.71570	0.74394	-0.00586	0.77435
0.33517	-3.18759	1.54199	-0.17122	-1.59759	0.62374	-0.00237	0.69017	0.74545	-0.00532	0.77256
0.34304	-3.26961	1.53618	-0.17678	-1.57789	0.61952	-0.00238	0.66778	0.74680	-0.00444	0.76839
0.35112	-3.31670	1.53336	-0.18237	-1.56783	0.61990	-0.00238	0.66654	0.74455	-0.00331	0.76180
0.35938	-3.33444	1.53328	-0.18813	-1.56595	0.62790	-0.00238	0.68229	0.73941	-0.00218	0.75490
0.36784	-3.36169	1.53531	-0.19396	-1.56436	0.63899	-0.00240	0.69438	0.73528	-0.00123	0.74940
0.37649	-3.40821	1.53939	-0.19973	-1.56174	0.64922	-0.00241	0.69601	0.73328	-0.00036	0.74471
0.38536	-3.46472	1.54471	-0.20532	-1.55950	0.65670	-0.00240	0.68971	0.73278	0.00062	0.73935
0.39442	-3.52652	1.55122	-0.21050	-1.55797	0.66041	-0.00238	0.67931	0.73329	0.00166	0.73364
0.40370	-3.61070	1.55861	-0.21495	-1.55290	0.65982	-0.00236	0.66048	0.73575	0.00249	0.72933
0.41321	-3.72860	1.56431	-0.21884	-1.53939	0.65698	-0.00236	0.62949	0.74045	0.00277	0.72840
0.42292	-3.86090	1.56608	-0.22289	-1.51913	0.65415	-0.00238	0.59425	0.74546	0.00246	0.73133
0.43288	-3.98625	1.56389	-0.22768	-1.49636	0.64887	-0.00238	0.56184	0.74941	0.00191	0.73616
0.44307	-4.08785	1.55986	-0.23339	-1.47645	0.63982	-0.00236	0.53874	0.75124	0.00155	0.74028
0.45349	-4.16644	1.55685	-0.23955	-1.46219	0.62804	-0.00232	0.52535	0.75122	0.00167	0.74173
0.46417	-4.23716	1.55522	-0.24557	-1.45092	0.61245	-0.00225	0.51489	0.75095	0.00223	0.74066
0.47508	-4.30716	1.55315	-0.25143	-1.43910	0.59308	-0.00217	0.50416	0.75078	0.00267	0.74034
0.48626	-4.37400	1.54998	-0.25743	-1.42649	0.57596	-0.00211	0.49591	0.74958	0.00263	0.74322
0.49771	-4.44239	1.54763	-0.26351	-1.41456	0.56853	-0.00208	0.49010	0.74735	0.00230	0.74810
0.50942	-4.52216	1.54847	-0.26929	-1.40402	0.57211	-0.00209	0.48299	0.74551	0.00205	0.75256
0.52140	-4.62616	1.55241	-0.27438	-1.39156	0.57975	-0.00212	0.46790	0.74644	0.00210	0.75523
0.53367	-4.75782	1.55725	-0.27876	-1.37362	0.58286	-0.00217	0.44124	0.75153	0.00257	0.75510
0.54624	-4.90090	1.56129	-0.28285	-1.35193	0.57871	-0.00220	0.40853	0.75941	0.00360	0.75117
0.55910	-5.02910	1.56472	-0.28717	-1.33264	0.57181	-0.00221	0.38087	0.76640	0.00513	0.74385
0.57225	-5.13108	1.56886	-0.29171	-1.32001	0.56845	-0.00221	0.36454	0.76977	0.00679	0.73564
0.58569	-5.20542	1.57440	-0.29634	-1.31519	0.57324	-0.00221	0.36208	0.76798	0.00816	0.72926
0.59948	-5.25026	1.58047	-0.30128	-1.31729	0.58618	-0.00222	0.37448	0.76049	0.00904	0.72639
0.61357	-5.27593	1.58565	-0.30651	-1.32223	0.60117	-0.00223	0.39596	0.74985	0.00924	0.72824
0.62802	-5.29147	1.58959	-0.31199	-1.32760	0.61448	-0.00224	0.42189	0.73812	0.00884	0.73419
0.64280	-5.30253	1.59309	-0.31755	-1.33286	0.62669	-0.00224	0.45082	0.72613	0.00817	0.74207
0.65794	-5.32351	1.59755	-0.32292	-1.33674	0.63878	-0.00226	0.47810	0.71546	0.00766	0.74866
0.67340	-5.37853	1.60402	-0.32777	-1.33579	0.64945	-0.00229	0.49212	0.70912	0.00772	0.75103
0.68927	-5.48181	1.61210	-0.33191	-1.32708	0.65593	-0.00233	0.48412	0.70896	0.00839	0.74919
0.70547	-5.62148	1.62015	-0.33552	-1.31147	0.65575	-0.00237	0.45816	0.71381	0.00951	0.74443
0.72207	-5.77936	1.62682	-0.33885	-1.29151	0.64908	-0.00238	0.42338	0.72130	0.01092	0.73821
0.73910	-5.93710	1.63184	-0.34195	-1.27061	0.63917	-0.00238	0.38983	0.72862	0.01229	0.73274
0.75649	-6.07471	1.63603	-0.34493	-1.25321	0.62985	-0.00236	0.36750	0.73251	0.01331	0.72962
0.77429	-6.18442	1.64071	-0.34800	-1.24187	0.62231	-0.00233	0.35976	0.73167	0.01398	0.72835
0.79246	-6.27013	1.64665	-0.35134	-1.23644	0.61673	-0.00230	0.36452	0.72682	0.01447	0.72707
0.81116	-6.34696	1.65340	-0.35514	-1.23348	0.61332	-0.00227	0.37517	0.72013	0.01498	0.72417
0.83022	-6.42806	1.65995	-0.35930	-1.22918	0.61280	-0.00225	0.38420	0.71390	0.01545	0.71999
0.84976	-6.52408	1.66596	-0.36363	-1.22099	0.61447	-0.00226	0.38550	0.70991	0.01576	0.71591
0.86972	-6.63831	1.67140	-0.36800	-1.20836	0.61620	-0.00229	0.37644	0.70894	0.01596	0.71209
0.89023	-6.75511	1.67653	-0.37270	-1.19516	0.61803	-0.00231	0.36453	0.70850	0.01617	0.70850
0.91116	-6.85191	1.68174	-0.37771	-1.18673	0.62256	-0.00233	0.36098	0.70476	0.01624	0.70674
0.93257	-6.92255	1.68780	-0.38279	-1.18536	0.63262	-0.00234	0.37105	0.69609	0.01605	0.70789
0.95456	-6.97649	1.69547	-0.38772	-1.18999	0.64921	-0.00236	0.39313	0.68365	0.01574	0.71096
0.97704	-7.02513	1.70499	-0.39239	-1.19844	0.67099	-0.00238	0.42350	0.66934	0.01563	0.71374
1.00000	-7.07604	1.71582	-0.39672	-1.20833	0.69517	-0.00241	0.45896	0.65445	0.01580	0.71560
1.02354	-7.13582	1.72720	-0.40053	-1.21708	0.71871	-0.00244	0.49547	0.64017	0.01590	0.71874
1.04767	-7.20792	1.73910	-0.40372	-1.22367	0.74017	-0.00248	0.53046	0.62716	0.01565	0.72505
1.07227	-7.29708	1.75174	-0.40633	-1.22755	0.75851	-0.00252	0.56049	0.61600	0.01522	0.73322
1.09745	-7.40929	1.76493	-0.40848	-1.22757	0.77197	-0.00255	0.58096	0.60719	0.01493	0.74069
1.12334	-7.53945	1.77786	-0.41042	-1.22396	0.78031	-0.00257	0.59315	0.59995	0.01482	0.74688
1.14982	-7.67251	1.78971	-0.41240	-1.21868	0.78523	-0.00258	0.60351	0.59276	0.01473	0.75249
1.17675	-7.79696	1.80037	-0.41468	-1.21371	0.78814	-0.00257	0.61660	0.58490	0.01467	0.75733
1.20453	-7.91748	1.81017	-0.41738	-1.20844	0.78823	-0.00256	0.62920	0.57717	0.01476	0.76055
1.23289	-8.04224	1.81922	-0.42021	-1.20113	0.78405	-0.00254	0.63434	0.57106	0.01506	0.76181
1.26183	-8.17172	1.82785	-0.42287	-1.19190	0.77667	-0.00252	0.63245	0.56662	0.01534	0.76296
1.29149	-8.29725	1.83656	-0.42526	-1.18309	0.76917	-0.00250	0.63135	0.56253	0.01528	0.76641
1.32188	-8.41406	1.84568	-0.42738	-1.17614	0.76370	-0.00248	0.63582	0.55790	0.01480	0.77278
1.35300	-8.52019	1.85542	-0.42933	-1.17198	0.76216	-0.00247	0.64942	0.55190	0.01403	0.78121
1.38485	-8.61994	1.86598	-0.43106	-1.17034	0.76512	-0.00247	0.67089	0.54469	0.01320	0.79016
1.41743	-8.72309	1.87735	-0.43247	-1.16932	0.77028	-0.00248	0.69282	0.53756	0.01254	0.79837
1.45075	-8.83839	1.88918	-0.43341	-1.16661	0.77443	-0.00249	0.70671	0.53188	0.01209	0.80579
1.48500	-8.96953	1.90101	-0.43390	-1.16085	0.77560	-0.00250	0.70909	0.52796	0.01179	0.81297
1.51999	-9.11695	1.91246	-0.43406	-1.15139	0.77289	-0.00250	0.69880	0.52582	0.01170	0.81954
1.55569	-9.28313	1.92355	-0.43402	-1.13777	0.76587	-0.00250	0.67462	0.52568	0.01188	0.82474
1.59236	-9.47031	1.93458	-0.43380	-1.11997	0.75440	-0.00249	0.63673	0.52771	0.01234	0.82826
1.62973	-9.67092	1.94570	-0.43340	-1.09965	0.73913	-0.00248	0.59149	0.53129	0.01296	0.83084
1.66806	-9.87776	1.95720	-0.43271	-1.07862	0.72093	-0.00247	0.54509	0.53574	0.01348	0.83419
1.70736	-10.08111	1.96930	-0.43166	-1.05921	0.70239	-0.00245	0.50430	0.53989	0.01378	0.83942
1.74764	-10.27246	1.98217	-0.43028	-1.04355	0.68700	-0.00244	0.47481	0.54217	0.01384	0.84664
1.78859	-10.44372	1.99558	-0.42867	-1.03322	0.67768	-0.00243	0.46178	0.54072	0.01378	0.85502
1.83083	-10.59542	2.00944	-0.42693	-1.02836	0.67511	-0.00243	0.46765	0.53425	0.01379	0.86328
1.87371	-10.72533	2.02319	-0.42516	-1.02875	0.67863	-0.00244	0.49454	0.52227	0.01399	0.87023
1.91791	-10.84036	2.03664	-0.42327	-1.03295	0.68582	-0.00244	0.54243	0.50536	0.01435	0.87601
1.96309	-10.94485	2.04930	-0.42124	-1.03935	0.69399	-0.00243	0.61035	0.48474	0.01478	0.88105

2.00924	-11.04117	2.06106	-0.41908	-1.04718	0.70202	-0.00242	0.70087	0.46107	0.01526	0.88539
2.05634	-11.12976	2.07197	-0.41675	-1.05627	0.71036	-0.00240	0.81869	0.43494	0.01580	0.88892
2.10482	-11.21136	2.08235	-0.41414	-1.06679	0.72016	-0.00238	0.96982	0.40700	0.01637	0.89177
2.15424	-11.28527	2.09236	-0.41121	-1.07873	0.73228	-0.00236	1.15686	0.37857	0.01692	0.89420
2.20507	-11.35470	2.10230	-0.40788	-1.09167	0.74669	-0.00235	1.38136	0.35055	0.01740	0.89670
2.25683	-11.42476	2.11219	-0.40413	-1.10426	0.76212	-0.00234	1.63465	0.32418	0.01777	0.89945
2.31000	-11.50051	2.12227	-0.39998	-1.11580	0.77791	-0.00235	1.91149	0.29962	0.01809	0.90212
2.36463	-11.58486	2.13274	-0.39546	-1.12597	0.79381	-0.00235	2.20403	0.27705	0.01846	0.90398
2.42014	-11.67849	2.14370	-0.39065	-1.13459	0.80931	-0.00237	2.50005	0.25684	0.01894	0.90469
2.47709	-11.78301	2.15537	-0.38554	-1.14166	0.82398	-0.00238	2.79110	0.23896	0.01950	0.90459
2.53550	-11.89810	2.16787	-0.38020	-1.14724	0.83715	-0.00239	3.06719	0.22349	0.02015	0.90384
2.59471	-12.02013	2.18101	-0.37477	-1.15157	0.84875	-0.00240	3.32216	0.21035	0.02085	0.90290
2.65604	-12.14896	2.19484	-0.36924	-1.15492	0.85903	-0.00240	3.55977	0.19905	0.02148	0.90271
2.71887	-12.28198	2.20913	-0.36382	-1.15726	0.86778	-0.00240	3.76905	0.18976	0.02197	0.90390
2.78242	-12.41687	2.22364	-0.35870	-1.15855	0.87503	-0.00240	3.93987	0.18256	0.02231	0.90669
2.84819	-12.55533	2.23855	-0.35385	-1.15892	0.88106	-0.00240	4.07340	0.17717	0.02250	0.91139
2.91545	-12.69490	2.25366	-0.34946	-1.15835	0.88587	-0.00239	4.16635	0.17347	0.02257	0.91802
2.98329	-12.83382	2.26863	-0.34555	-1.15680	0.88950	-0.00239	4.21664	0.17137	0.02255	0.92613
3.05344	-12.97528	2.28381	-0.34209	-1.15423	0.89216	-0.00238	4.22906	0.17050	0.02246	0.93548
3.12598	-13.12017	2.29914	-0.33902	-1.15048	0.89361	-0.00236	4.20275	0.17082	0.02233	0.94565
3.19898	-13.26365	2.31412	-0.33642	-1.14578	0.89382	-0.00235	4.14544	0.17204	0.02216	0.95590
3.27439	-13.40921	2.32912	-0.33417	-1.14017	0.89282	-0.00233	4.06120	0.17408	0.02195	0.96608
3.35121	-13.55288	2.34383	-0.33227	-1.13406	0.89081	-0.00232	3.96290	0.17653	0.02171	0.97582
3.43053	-13.69734	2.35848	-0.33064	-1.12735	0.88753	-0.00229	3.85191	0.17939	0.02142	0.98532
3.51124	-13.83834	2.37278	-0.32927	-1.12054	0.88340	-0.00227	3.74159	0.18223	0.02111	0.99459
3.59324	-13.97648	2.38677	-0.32802	-1.11379	0.87852	-0.00224	3.63538	0.18501	0.02076	1.00367
3.67782	-14.11127	2.40063	-0.32693	-1.10736	0.87363	-0.00221	3.54259	0.18729	0.02039	1.01309
3.76506	-14.24435	2.41443	-0.32570	-1.10157	0.86895	-0.00218	3.46645	0.18916	0.02001	1.02272
3.85356	-14.36940	2.42789	-0.32464	-1.09672	0.86528	-0.00215	3.41700	0.18997	0.01961	1.03279
3.94477	-14.49194	2.44123	-0.32317	-1.09312	0.86309	-0.00212	3.39638	0.18995	0.01922	1.04264
4.03714	-14.60705	2.45431	-0.32174	-1.09054	0.86228	-0.00209	3.40480	0.18870	0.01884	1.05235
4.13223	-14.71988	2.46713	-0.31987	-1.08903	0.86300	-0.00207	3.44068	0.18654	0.01846	1.06161
4.23012	-14.82982	2.48002	-0.31758	-1.08890	0.86567	-0.00206	3.51127	0.18324	0.01815	1.06990
4.32900	-14.93139	2.49233	-0.31526	-1.08982	0.86999	-0.00205	3.61189	0.17878	0.01788	1.07743
4.43066	-15.03707	2.50437	-0.31216	-1.09133	0.87593	-0.00205	3.72496	0.17432	0.01762	1.08379
4.53515	-15.13939	2.51637	-0.30895	-1.09345	0.88300	-0.00205	3.86403	0.16892	0.01750	1.08920
4.64253	-15.24227	2.52770	-0.30545	-1.09556	0.89022	-0.00205	4.00557	0.16369	0.01743	1.09408
4.75059	-15.35065	2.53857	-0.30126	-1.09759	0.89746	-0.00206	4.13638	0.15938	0.01741	1.09786
4.86145	-15.45379	2.54936	-0.29716	-1.10011	0.90486	-0.00207	4.28779	0.15436	0.01759	1.10091
4.97760	-15.56253	2.55950	-0.29259	-1.10231	0.91145	-0.00208	4.42385	0.15019	0.01779	1.10372
5.09424	-15.67772	2.56907	-0.28732	-1.10408	0.91710	-0.00208	4.53491	0.14720	0.01806	1.10568
5.21376	-15.78790	2.57871	-0.28219	-1.10612	0.92252	-0.00209	4.66482	0.14342	0.01853	1.10708
5.33618	-15.89963	2.58714	-0.27698	-1.10740	0.92708	-0.00209	4.76956	0.14051	0.01895	1.10874
5.46150	-16.02090	2.59463	-0.27102	-1.10775	0.93066	-0.00209	4.83565	0.13906	0.01931	1.11029
5.58971	-16.14021	2.60254	-0.26512	-1.10802	0.93389	-0.00209	4.91635	0.13685	0.01978	1.11178
5.72082	-16.25767	2.60987	-0.25960	-1.10752	0.93629	-0.00209	4.98196	0.13490	0.02022	1.11393
5.85823	-16.38752	2.61550	-0.25345	-1.10531	0.93714	-0.00210	4.97594	0.13544	0.02039	1.11701
5.99520	-16.51857	2.62138	-0.24725	-1.10243	0.93728	-0.00210	4.95618	0.13617	0.02050	1.12053
6.13497	-16.64840	2.62821	-0.24144	-1.09921	0.93708	-0.00210	4.94389	0.13621	0.02063	1.12468
6.28141	-16.77982	2.63348	-0.23575	-1.09518	0.93584	-0.00210	4.88581	0.13785	0.02052	1.12982
6.42674	-16.91223	2.63707	-0.22982	-1.09029	0.93332	-0.00211	4.77544	0.14146	0.02011	1.13572
6.57895	-17.05162	2.64228	-0.22368	-1.08508	0.93054	-0.00211	4.66654	0.14479	0.01962	1.14249
6.73401	-17.18914	2.64913	-0.21792	-1.08032	0.92829	-0.00211	4.57894	0.14722	0.01914	1.14971
6.89180	-17.30953	2.65323	-0.21267	-1.07715	0.92687	-0.00211	4.48637	0.15075	0.01850	1.15737
7.05716	-17.42562	2.65561	-0.20702	-1.07497	0.92574	-0.00211	4.37091	0.15597	0.01757	1.16607
7.22022	-17.54186	2.66004	-0.20146	-1.07320	0.92496	-0.00211	4.27102	0.16060	0.01662	1.17490
7.39098	-17.66725	2.66736	-0.19587	-1.07141	0.92444	-0.00210	4.18596	0.16443	0.01568	1.18393
7.56430	-17.77716	2.67294	-0.19101	-1.07069	0.92447	-0.00210	4.12023	0.16791	0.01484	1.19230
7.73994	-17.86002	2.67370	-0.18644	-1.07225	0.92525	-0.00209	4.06028	0.17251	0.01386	1.20057
7.92393	-17.95131	2.67657	-0.18141	-1.07412	0.92627	-0.00209	4.00365	0.17706	0.01279	1.20904
8.11030	-18.05134	2.68207	-0.17626	-1.07575	0.92737	-0.00208	3.95382	0.18104	0.01177	1.21705
8.29876	-18.16560	2.69118	-0.17111	-1.07652	0.92835	-0.00207	3.90877	0.18421	0.01089	1.22429
8.49618	-18.25559	2.69535	-0.16694	-1.07806	0.92953	-0.00206	3.87632	0.18720	0.01014	1.23078
8.69565	-18.31609	2.69390	-0.16327	-1.08111	0.93101	-0.00206	3.85159	0.19066	0.00937	1.23719
8.90472	-18.39574	2.69633	-0.15893	-1.08377	0.93250	-0.00205	3.82430	0.19396	0.00856	1.24379
9.11577	-18.48363	2.70080	-0.15444	-1.08600	0.93391	-0.00204	3.79781	0.19692	0.00781	1.25015
9.32836	-18.59780	2.71084	-0.14932	-1.08715	0.93511	-0.00203	3.76438	0.19959	0.00712	1.25634
9.54198	-18.70026	2.71892	-0.14517	-1.08802	0.93623	-0.00202	3.73940	0.20166	0.00660	1.26200
9.76563	-18.74654	2.71567	-0.14274	-1.09077	0.93770	-0.00202	3.73806	0.20354	0.00613	1.26799
10.00000	-18.80013	2.71365	-0.13977	-1.09363	0.93922	-0.00201	3.73505	0.20553	0.00559	1.27495

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Median stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 6 - 15 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.70430	3.38624	-0.04502	-1.69524	1.03495	-0.00102	1.19379	0.44956	-0.01567	0.32399
PGV	15.22841	2.01360	0.02312	-5.11504	2.09442	0.00043	30.46003	0.21013	-0.05700	0.73587
PGA	-0.38982	1.42215	-0.03783	-2.10898	0.95845	-0.00381	2.47156	0.51685	-0.02394	0.75378
0.01000	0.43242	1.45575	-0.03132	-2.29027	0.94684	-0.00351	3.07195	0.50006	-0.00128	0.72819
0.01024	0.46524	1.45826	-0.03049	-2.29801	0.94325	-0.00349	3.08454	0.50051	-0.00132	0.72967
0.01048	0.50456	1.46085	-0.02970	-2.30701	0.93979	-0.00347	3.10303	0.50074	-0.00135	0.73105
0.01072	0.54794	1.46349	-0.02892	-2.31677	0.93616	-0.00345	3.12480	0.50086	-0.00136	0.73228
0.01097	0.59064	1.46612	-0.02812	-2.32633	0.93205	-0.00343	3.14473	0.50107	-0.00136	0.73338
0.01123	0.62923	1.46870	-0.02725	-2.33503	0.92736	-0.00340	3.15944	0.50148	-0.00137	0.73460
0.01150	0.66150	1.47116	-0.02629	-2.34238	0.92216	-0.00338	3.16692	0.50216	-0.00142	0.73614
0.01177	0.68896	1.47358	-0.02529	-2.34876	0.91688	-0.00336	3.16870	0.50305	-0.00152	0.73795
0.01205	0.71796	1.47609	-0.02428	-2.35554	0.91219	-0.00334	3.17117	0.50389	-0.00164	0.73992
0.01233	0.75751	1.47880	-0.02327	-2.36452	0.90851	-0.00332	3.18401	0.50434	-0.00177	0.74194
0.01262	0.81064	1.48161	-0.02234	-2.37606	0.90541	-0.00330	3.21142	0.50426	-0.00186	0.74369
0.01292	0.86962	1.48425	-0.02154	-2.38840	0.90207	-0.00328	3.24637	0.50389	-0.00185	0.74483
0.01322	0.92684	1.48659	-0.02087	-2.40004	0.89833	-0.00325	3.28091	0.50349	-0.00176	0.74536
0.01353	0.98016	1.48870	-0.02030	-2.41073	0.89443	-0.00323	3.31183	0.50318	-0.00163	0.74560
0.01385	1.02764	1.49067	-0.01973	-2.42019	0.89024	-0.00321	3.33595	0.50310	-0.00150	0.74573
0.01417	1.06791	1.49265	-0.01906	-2.42833	0.88562	-0.00319	3.35107	0.50336	-0.00134	0.74558
0.01451	1.10273	1.49479	-0.01824	-2.43563	0.88100	-0.00317	3.35918	0.50390	-0.00112	0.74504
0.01485	1.13216	1.49706	-0.01732	-2.44211	0.87692	-0.00315	3.36104	0.50465	-0.00089	0.74442
0.01520	1.15454	1.49929	-0.01639	-2.44720	0.87305	-0.00314	3.35553	0.50564	-0.00070	0.74422
0.01556	1.17028	1.50132	-0.01553	-2.45070	0.86824	-0.00313	3.34340	0.50687	-0.00055	0.74445
0.01592	1.18590	1.50318	-0.01472	-2.45370	0.86189	-0.00312	3.33208	0.50812	-0.00041	0.74482
0.01630	1.21083	1.50504	-0.01394	-2.45817	0.85465	-0.00310	3.33180	0.50904	-0.00027	0.74529
0.01668	1.24840	1.50709	-0.01322	-2.46504	0.84766	-0.00308	3.34564	0.50949	-0.00014	0.74587
0.01707	1.29558	1.50945	-0.01255	-2.47394	0.84147	-0.00306	3.36947	0.50960	-0.00000	0.74649
0.01748	1.34841	1.51209	-0.01185	-2.48412	0.83591	-0.00304	3.39826	0.50957	0.00015	0.74706
0.01789	1.40421	1.51487	-0.01107	-2.49497	0.83058	-0.00302	3.42877	0.50950	0.00038	0.74735
0.01831	1.45586	1.51756	-0.01023	-2.50496	0.82495	-0.00300	3.45353	0.50962	0.00068	0.74735
0.01874	1.49142	1.51990	-0.00941	-2.51177	0.81852	-0.00298	3.46028	0.51029	0.00102	0.74711
0.01918	1.50816	1.52183	-0.00865	-2.51481	0.81128	-0.00297	3.44697	0.51157	0.00142	0.74647
0.01963	1.51094	1.52330	-0.00790	-2.51487	0.80337	-0.00296	3.41984	0.51327	0.00189	0.74527
0.02009	1.50252	1.52425	-0.00712	-2.51231	0.79503	-0.00295	3.38281	0.51526	0.00239	0.74368
0.02057	1.49019	1.52478	-0.00630	-2.50844	0.78689	-0.00295	3.34473	0.51725	0.00286	0.74218
0.02105	1.48333	1.52507	-0.00548	-2.50511	0.77962	-0.00295	3.31632	0.51889	0.00325	0.74117
0.02154	1.48149	1.52529	-0.00476	-2.50242	0.77285	-0.00295	3.29650	0.52022	0.00356	0.74055
0.02205	1.48456	1.52572	-0.00421	-2.50062	0.76599	-0.00295	3.28318	0.52136	0.00379	0.74043
0.02257	1.49486	1.52658	-0.00384	-2.50045	0.75936	-0.00295	3.27722	0.52231	0.00394	0.74080
0.02310	1.50335	1.52776	-0.00356	-2.50017	0.75297	-0.00295	3.26904	0.52337	0.00414	0.74089
0.02364	1.49451	1.52897	-0.00326	-2.49672	0.74601	-0.00296	3.24308	0.52510	0.00451	0.73994
0.02420	1.46046	1.53008	-0.00283	-2.48859	0.73804	-0.00297	3.19157	0.52778	0.00509	0.73769
0.02477	1.40240	1.53113	-0.00222	-2.47614	0.72974	-0.00298	3.11647	0.53136	0.00588	0.73419
0.02535	1.33270	1.53220	-0.00147	-2.46179	0.72257	-0.00300	3.03133	0.53534	0.00682	0.72975
0.02595	1.27473	1.53344	-0.00068	-2.44995	0.71780	-0.00303	2.95978	0.53878	0.00781	0.72493
0.02656	1.24670	1.53499	0.00003	-2.44395	0.71527	-0.00305	2.91904	0.54098	0.00874	0.72059
0.02719	1.24969	1.53662	0.00062	-2.44367	0.71377	-0.00306	2.90997	0.54188	0.00944	0.71782
0.02783	1.26787	1.53785	0.00112	-2.44573	0.71235	-0.00307	2.91823	0.54200	0.00981	0.71722
0.02848	1.27354	1.53829	0.00153	-2.44465	0.71032	-0.00308	2.91811	0.54236	0.00993	0.71836
0.02915	1.24529	1.53790	0.00183	-2.43644	0.70670	-0.00310	2.88860	0.54385	0.01001	0.71979
0.02984	1.18412	1.53689	0.00203	-2.42151	0.70077	-0.00313	2.82910	0.54659	0.01028	0.71998
0.03054	1.10945	1.53551	0.00215	-2.40382	0.69303	-0.00315	2.75631	0.54994	0.01084	0.71812
0.03126	1.04883	1.53411	0.00217	-2.38890	0.68519	-0.00317	2.69519	0.55284	0.01158	0.71480
0.03199	1.02273	1.53307	0.00210	-2.38072	0.67910	-0.00318	2.66504	0.55440	0.01233	0.71123
0.03275	1.02577	1.53246	0.00206	-2.37821	0.67522	-0.00318	2.66184	0.55477	0.01304	0.70783
0.03352	1.03181	1.53205	0.00222	-2.37632	0.67242	-0.00319	2.66220	0.55501	0.01372	0.70451
0.03430	1.01776	1.53154	0.00267	-2.37050	0.66959	-0.00321	2.64574	0.55604	0.01434	0.70162
0.03511	0.97603	1.53085	0.00337	-2.35918	0.66666	-0.00324	2.60676	0.55813	0.01481	0.69971
0.03594	0.90691	1.52999	0.00421	-2.34234	0.66344	-0.00328	2.54599	0.56131	0.01513	0.69884
0.03678	0.80993	1.52905	0.00513	-2.32004	0.65934	-0.00333	2.46275	0.56572	0.01533	0.69878
0.03765	0.68870	1.52838	0.00612	-2.29339	0.65483	-0.00339	2.36095	0.57128	0.01544	0.69949
0.03854	0.54610	1.52824	0.00717	-2.26337	0.65077	-0.00346	2.24447	0.57791	0.01553	0.70063
0.03944	0.38879	1.52844	0.00824	-2.23126	0.64722	-0.00353	2.11967	0.58532	0.01565	0.70174
0.04037	0.22836	1.52846	0.00921	-2.19885	0.64325	-0.00359	1.99574	0.59300	0.01576	0.70294
0.04132	0.07257	1.52793	0.01002	-2.16724	0.63847	-0.00365	1.87792	0.60061	0.01581	0.70454
0.04229	-0.07233	1.52684	0.01065	-2.13758	0.63431	-0.00370	1.77064	0.60779	0.01575	0.70670
0.04329	-0.19426	1.52539	0.01113	-2.11209	0.63338	-0.00375	1.68353	0.61374	0.01554	0.70972
0.04431	-0.28801	1.52379	0.01152	-2.09165	0.63693	-0.00381	1.62091	0.61797	0.01519	0.71348
0.04535	-0.35992	1.52201	0.01190	-2.07488	0.64369	-0.00387	1.57759	0.62077	0.01482	0.71724

0.04642	-0.41598	1.51988	0.01224	-2.06051	0.65069	-0.00392	1.54750	0.62258	0.01456	0.72009
0.04751	-0.45908	1.51722	0.01244	-2.04797	0.65514	-0.00397	1.52673	0.62368	0.01451	0.72143
0.04863	-0.49579	1.51386	0.01245	-2.03598	0.65600	-0.00400	1.50987	0.62446	0.01462	0.72136
0.04977	-0.53986	1.50982	0.01232	-2.02202	0.65360	-0.00402	1.48731	0.62570	0.01491	0.71996
0.05094	-0.60670	1.50527	0.01215	-2.00340	0.64889	-0.00405	1.44873	0.62831	0.01540	0.71713
0.05214	-0.70395	1.50055	0.01204	-1.97899	0.64329	-0.00408	1.38970	0.63281	0.01609	0.71298
0.05337	-0.82736	1.49639	0.01205	-1.95037	0.63850	-0.00412	1.31429	0.63910	0.01699	0.70757
0.05462	-0.96490	1.49336	0.01219	-1.92055	0.63588	-0.00417	1.23145	0.64661	0.01805	0.70109
0.05591	-1.10318	1.49115	0.01242	-1.89183	0.63584	-0.00423	1.15017	0.65448	0.01915	0.69446
0.05722	-1.22964	1.48887	0.01268	-1.86553	0.63835	-0.00428	1.07810	0.66177	0.02002	0.68923
0.05857	-1.33533	1.48581	0.01288	-1.84229	0.64291	-0.00433	1.02006	0.66775	0.02048	0.68672
0.05995	-1.41762	1.48170	0.01292	-1.82199	0.64840	-0.00438	0.97687	0.67211	0.02045	0.68747
0.06136	-1.48188	1.47688	0.01279	-1.80382	0.65368	-0.00443	0.94500	0.67524	0.02002	0.69096
0.06280	-1.53939	1.47211	0.01248	-1.78649	0.65778	-0.00448	0.91796	0.67799	0.01940	0.69583
0.06428	-1.60359	1.46781	0.01201	-1.76816	0.65968	-0.00452	0.88806	0.68144	0.01883	0.70068
0.06579	-1.68048	1.46393	0.01134	-1.74792	0.65911	-0.00455	0.85171	0.68608	0.01846	0.70441
0.06734	-1.76568	1.46026	0.01036	-1.72663	0.65728	-0.00458	0.81116	0.69158	0.01837	0.70646
0.06893	-1.85028	1.45662	0.00903	-1.70594	0.65606	-0.00461	0.77118	0.69715	0.01849	0.70712
0.07055	-1.92748	1.45272	0.00733	-1.68688	0.65644	-0.00464	0.73512	0.70215	0.01869	0.70703
0.07221	-1.99364	1.44821	0.00534	-1.66972	0.65826	-0.00466	0.70459	0.70617	0.01885	0.70681
0.07391	-2.04701	1.44282	0.00315	-1.65433	0.66091	-0.00468	0.68039	0.70898	0.01887	0.70693
0.07565	-2.08693	1.43642	0.00083	-1.64045	0.66371	-0.00470	0.66278	0.71049	0.01867	0.70804
0.07743	-2.11474	1.42920	-0.00157	-1.62788	0.66608	-0.00471	0.65094	0.71086	0.01821	0.71050
0.07925	-2.13260	1.42184	-0.00398	-1.61692	0.66775	-0.00472	0.64385	0.71038	0.01761	0.71390
0.08111	-2.14208	1.41535	-0.00635	-1.60834	0.66918	-0.00472	0.64107	0.70925	0.01702	0.71732
0.08302	-2.14385	1.41056	-0.00866	-1.60295	0.67150	-0.00471	0.64272	0.70755	0.01662	0.71973
0.08498	-2.13962	1.40765	-0.01096	-1.60072	0.67532	-0.00471	0.64788	0.70544	0.01651	0.72044
0.08697	-2.13382	1.40618	-0.01325	-1.60044	0.68004	-0.00470	0.65396	0.70336	0.01678	0.71901
0.08902	-2.13193	1.40548	-0.01552	-1.60043	0.68409	-0.00469	0.65783	0.70183	0.01743	0.71537
0.09112	-2.13795	1.40502	-0.01767	-1.59938	0.68617	-0.00467	0.65737	0.70119	0.01841	0.71011
0.09326	-2.15163	1.40436	-0.01968	-1.59681	0.68605	-0.00464	0.65296	0.70131	0.01952	0.70437
0.09545	-2.16962	1.40309	-0.02154	-1.59281	0.68426	-0.00461	0.64655	0.70176	0.02053	0.69962
0.09770	-2.18730	1.40096	-0.02335	-1.58789	0.68168	-0.00458	0.64063	0.70201	0.02126	0.69702
0.10000	-2.20336	1.39814	-0.02513	-1.58236	0.67951	-0.00455	0.63631	0.70185	0.02165	0.69686
0.10235	-2.21853	1.39510	-0.02685	-1.57652	0.67911	-0.00453	0.63386	0.70128	0.02180	0.69841
0.10476	-2.23380	1.39237	-0.02844	-1.57073	0.68155	-0.00452	0.63318	0.70037	0.02187	0.70054
0.10723	-2.25313	1.39012	-0.02992	-1.56448	0.68681	-0.00453	0.63214	0.69957	0.02196	0.70262
0.10975	-2.27804	1.38810	-0.03140	-1.55722	0.69403	-0.00454	0.62946	0.69908	0.02210	0.70449
0.11233	-2.30788	1.38602	-0.03298	-1.54887	0.70223	-0.00456	0.62484	0.69894	0.02231	0.70594
0.11498	-2.34217	1.38385	-0.03470	-1.53955	0.71093	-0.00458	0.61819	0.69917	0.02265	0.70656
0.11768	-2.38159	1.38165	-0.03649	-1.52922	0.72004	-0.00461	0.60918	0.69983	0.02317	0.70602
0.12045	-2.42924	1.37939	-0.03821	-1.51734	0.72923	-0.00464	0.59604	0.70132	0.02386	0.70427
0.12328	-2.48162	1.37693	-0.03986	-1.50444	0.73814	-0.00467	0.58020	0.70339	0.02459	0.70195
0.12619	-2.53159	1.37418	-0.04158	-1.49176	0.74627	-0.00470	0.56491	0.70535	0.02532	0.69941
0.12916	-2.57338	1.37117	-0.04343	-1.48048	0.75369	-0.00472	0.55280	0.70661	0.02600	0.69681
0.13219	-2.60717	1.36801	-0.04537	-1.47070	0.76118	-0.00473	0.54388	0.70713	0.02666	0.69404
0.13531	-2.63222	1.36495	-0.04748	-1.46280	0.76938	-0.00475	0.53864	0.70677	0.02741	0.69033
0.13849	-2.64557	1.36201	-0.04990	-1.45738	0.77804	-0.00476	0.53860	0.70519	0.02833	0.68517
0.14175	-2.64672	1.35906	-0.05252	-1.45430	0.78731	-0.00476	0.54417	0.70227	0.02923	0.67970
0.14508	-2.63768	1.35593	-0.05528	-1.45300	0.79746	-0.00476	0.55473	0.69817	0.02995	0.67501
0.14850	-2.61863	1.35291	-0.05823	-1.45378	0.80820	-0.00477	0.57080	0.69289	0.03059	0.67056
0.15199	-2.59267	1.35028	-0.06137	-1.45635	0.81901	-0.00476	0.59159	0.68674	0.03125	0.66579
0.15557	-2.56584	1.34790	-0.06446	-1.45935	0.82967	-0.00476	0.61449	0.68035	0.03188	0.66121
0.15923	-2.54012	1.34566	-0.06746	-1.46230	0.84043	-0.00476	0.63829	0.67397	0.03242	0.65737
0.16298	-2.51460	1.34350	-0.07042	-1.46531	0.85080	-0.00476	0.66350	0.66751	0.03272	0.65537
0.16681	-2.48888	1.34170	-0.07344	-1.46883	0.86050	-0.00476	0.69026	0.66100	0.03285	0.65484
0.17074	-2.46265	1.34053	-0.07645	-1.47331	0.86967	-0.00475	0.71871	0.65449	0.03279	0.65590
0.17475	-2.43443	1.34023	-0.07944	-1.47938	0.87916	-0.00474	0.74999	0.64779	0.03248	0.65890
0.17887	-2.40207	1.34118	-0.08246	-1.48792	0.88957	-0.00472	0.78564	0.64077	0.03207	0.66298
0.18307	-2.37010	1.34295	-0.08535	-1.49745	0.90048	-0.00471	0.82385	0.63373	0.03150	0.66838
0.18738	-2.34164	1.34497	-0.08804	-1.50677	0.91140	-0.00470	0.86312	0.62678	0.03069	0.67542
0.19179	-2.31627	1.34724	-0.09071	-1.51605	0.92160	-0.00468	0.90251	0.62005	0.02974	0.68353
0.19631	-2.28570	1.35093	-0.09356	-1.52822	0.93181	-0.00466	0.94688	0.61311	0.02890	0.69080
0.20092	-2.25692	1.35503	-0.09655	-1.54092	0.94011	-0.00464	0.99027	0.60658	0.02806	0.69797
0.20565	-2.23596	1.35856	-0.09967	-1.55199	0.94658	-0.00461	1.02859	0.60069	0.02721	0.70497
0.21049	-2.22521	1.36133	-0.10289	-1.56064	0.94992	-0.00457	1.06053	0.59548	0.02633	0.71196
0.21544	-2.22721	1.36373	-0.10628	-1.56681	0.95176	-0.00454	1.08417	0.59113	0.02556	0.71797
0.22051	-2.24210	1.36501	-0.10989	-1.56969	0.95102	-0.00451	1.09874	0.58750	0.02471	0.72433
0.22570	-2.26678	1.36525	-0.11359	-1.56994	0.94877	-0.00448	1.10667	0.58429	0.02367	0.73171
0.23101	-2.28479	1.36605	-0.11741	-1.57253	0.94600	-0.00444	1.12078	0.58041	0.02283	0.73758
0.23645	-2.29552	1.36728	-0.12133	-1.57727	0.94367	-0.00440	1.14278	0.57569	0.02217	0.74206
0.24201	-2.30650	1.36782	-0.12545	-1.58154	0.94222	-0.00436	1.16681	0.57053	0.02125	0.74829
0.24771	-2.32439	1.36790	-0.12968	-1.58445	0.93954	-0.00431	1.18757	0.56552	0.02027	0.75487
0.25354	-2.34402	1.36765	-0.13409	-1.58727	0.93409	-0.00425	1.20773	0.56040	0.01928	0.76139
0.25950	-2.36898	1.36725	-0.13854	-1.58922	0.92749	-0.00419	1.22609	0.55535	0.01854	0.76605
0.26561	-2.39748	1.36626	-0.14302	-1.59007	0.91947	-0.00412	1.24421	0.55012	0.01795	0.76938
0.27186	-2.43081	1.36530	-0.14755	-1.59012	0.91146	-0.00406	1.26181	0.54485	0.01725	0.77313
0.27826	-2.46982	1.36433	-0.15199	-1.58923	0.90645	-0.00401	1.27870	0.53945	0.01653	0.77677
0.28480	-2.50971	1.36342	-0.15638	-1.58846	0.90228	-0.00397	1.29776	0.53373	0.01571	0.78081
0.29150	-2.55167	1.36236	-0.16074	-1.58730	0.89690	-0.00392	1.31789	0.52781	0.01477	0.78537
0.29836	-2.59626	1.36199	-0.16511	-1.58663	0.89138	-0.00386	1.33835	0.52192	0.01407	0.78813

0.30539	-2.65205	1.36166	-0.16943	-1.58387	0.88448	-0.00381	1.35206	0.51653	0.01347	0.79008
0.31257	-2.72298	1.36175	-0.17358	-1.57853	0.87691	-0.00376	1.35550	0.51206	0.01321	0.78964
0.31993	-2.80047	1.36207	-0.17786	-1.57215	0.86950	-0.00372	1.35542	0.50784	0.01315	0.78788
0.32745	-2.87670	1.36373	-0.18218	-1.56736	0.86523	-0.00369	1.35957	0.50348	0.01342	0.78381
0.33517	-2.95523	1.36544	-0.18664	-1.56230	0.85987	-0.00365	1.36287	0.49914	0.01381	0.77873
0.34304	-3.03740	1.36695	-0.19121	-1.55622	0.85652	-0.00362	1.36436	0.49483	0.01426	0.77309
0.35112	-3.12362	1.36890	-0.19586	-1.54993	0.85213	-0.00358	1.36332	0.49074	0.01493	0.76565
0.35938	-3.21536	1.36984	-0.20058	-1.54140	0.84480	-0.00355	1.35737	0.48681	0.01532	0.75986
0.36784	-3.30655	1.37123	-0.20540	-1.53324	0.84033	-0.00352	1.35436	0.48268	0.01579	0.75340
0.37649	-3.39551	1.37340	-0.21027	-1.52637	0.83836	-0.00350	1.35561	0.47827	0.01653	0.74499
0.38536	-3.48165	1.37593	-0.21518	-1.52053	0.83702	-0.00348	1.36121	0.47357	0.01743	0.73556
0.39442	-3.56457	1.37823	-0.22016	-1.51508	0.83705	-0.00346	1.37183	0.46832	0.01834	0.72600
0.40370	-3.64460	1.38103	-0.22513	-1.51071	0.83737	-0.00344	1.38814	0.46270	0.01943	0.71533
0.41321	-3.71862	1.38403	-0.23019	-1.50776	0.83871	-0.00341	1.41259	0.45651	0.02061	0.70424
0.42292	-3.78915	1.38648	-0.23530	-1.50489	0.84071	-0.00339	1.44262	0.44978	0.02167	0.69409
0.43288	-3.85582	1.38933	-0.24035	-1.50322	0.84323	-0.00337	1.48065	0.44256	0.02270	0.68422
0.44307	-3.91970	1.39210	-0.24534	-1.50196	0.84593	-0.00334	1.52545	0.43489	0.02351	0.67595
0.45349	-3.97644	1.39491	-0.25040	-1.50216	0.84995	-0.00331	1.58103	0.42665	0.02436	0.66769
0.46417	-4.02645	1.39789	-0.25546	-1.50389	0.85525	-0.00329	1.64849	0.41784	0.02520	0.65982
0.47508	-4.07282	1.40119	-0.26044	-1.50656	0.86139	-0.00326	1.72644	0.40863	0.02594	0.65286
0.48626	-4.11697	1.40461	-0.26531	-1.50975	0.86774	-0.00324	1.81317	0.39919	0.02659	0.64677
0.49771	-4.15897	1.40790	-0.27012	-1.51320	0.87400	-0.00321	1.90788	0.38962	0.02718	0.64144
0.50942	-4.20070	1.41127	-0.27480	-1.51674	0.88020	-0.00318	2.00949	0.38003	0.02771	0.63674
0.52140	-4.24544	1.41509	-0.27926	-1.52000	0.88622	-0.00315	2.11513	0.37063	0.02820	0.63250
0.53367	-4.29338	1.41922	-0.28356	-1.52285	0.89192	-0.00313	2.22341	0.36148	0.02867	0.62867
0.54624	-4.34281	1.42332	-0.28776	-1.52531	0.89717	-0.00310	2.33414	0.35259	0.02911	0.62534
0.55910	-4.39393	1.42746	-0.29186	-1.52741	0.90205	-0.00307	2.44698	0.34398	0.02951	0.62248
0.57225	-4.44904	1.43204	-0.29577	-1.52908	0.90666	-0.00305	2.56033	0.33570	0.02987	0.61993
0.58569	-4.50955	1.43720	-0.29944	-1.53013	0.91089	-0.00302	2.67176	0.32786	0.03020	0.61765
0.59948	-4.57419	1.44260	-0.30301	-1.53054	0.91465	-0.00300	2.78118	0.32039	0.03051	0.61572
0.61357	-4.64065	1.44789	-0.30651	-1.53044	0.91788	-0.00298	2.88864	0.31328	0.03078	0.61427
0.62802	-4.70993	1.45327	-0.30994	-1.52984	0.92067	-0.00296	2.99419	0.30648	0.03102	0.61331
0.64280	-4.78377	1.45914	-0.31318	-1.52876	0.92314	-0.00293	3.09638	0.30006	0.03120	0.61280
0.65794	-4.86352	1.46564	-0.31622	-1.52705	0.92524	-0.00291	3.19359	0.29403	0.03135	0.61270
0.67340	-4.94714	1.47244	-0.31914	-1.52479	0.92689	-0.00289	3.28595	0.28837	0.03146	0.61306
0.68927	-5.03272	1.47918	-0.32203	-1.52209	0.92807	-0.00288	3.37501	0.28299	0.03155	0.61397
0.70547	-5.11894	1.48580	-0.32488	-1.51913	0.92886	-0.00286	3.46127	0.27787	0.03161	0.61531
0.72207	-5.20786	1.49271	-0.32764	-1.51592	0.92939	-0.00284	3.54472	0.27300	0.03164	0.61679
0.73910	-5.30124	1.50024	-0.33021	-1.51242	0.92974	-0.00282	3.62422	0.26843	0.03165	0.61805
0.75649	-5.39856	1.50837	-0.33260	-1.50865	0.92991	-0.00280	3.69942	0.26414	0.03166	0.61876
0.77429	-5.49823	1.51677	-0.33490	-1.50467	0.92984	-0.00279	3.77132	0.26010	0.03168	0.61857
0.79246	-5.59817	1.52504	-0.33716	-1.50050	0.92942	-0.00277	3.83988	0.25628	0.03173	0.61723
0.81116	-5.69897	1.53318	-0.33944	-1.49612	0.92866	-0.00275	3.90577	0.25263	0.03179	0.61492
0.83022	-5.80074	1.54136	-0.34165	-1.49158	0.92764	-0.00274	3.96774	0.24921	0.03186	0.61198
0.84976	-5.90600	1.55001	-0.34371	-1.48682	0.92646	-0.00272	4.02524	0.24602	0.03191	0.60875
0.86972	-6.01519	1.55927	-0.34559	-1.48184	0.92520	-0.00271	4.07752	0.24308	0.03192	0.60566
0.89023	-6.12832	1.56907	-0.34732	-1.47665	0.92385	-0.00269	4.12550	0.24034	0.03188	0.60321
0.91116	-6.24266	1.57902	-0.34896	-1.47135	0.92238	-0.00268	4.16993	0.23777	0.03179	0.60190
0.93257	-6.35675	1.58882	-0.35057	-1.46600	0.92076	-0.00267	4.21217	0.23533	0.03165	0.60182
0.95456	-6.47040	1.59840	-0.35219	-1.46064	0.91897	-0.00265	4.25278	0.23300	0.03146	0.60292
0.97704	-6.58397	1.60788	-0.35377	-1.45525	0.91708	-0.00264	4.29103	0.23079	0.03123	0.60513
1.00000	-6.69902	1.61757	-0.35524	-1.44980	0.91516	-0.00263	4.32598	0.22873	0.03094	0.60833
1.02354	-6.81731	1.62776	-0.35655	-1.44425	0.91326	-0.00261	4.35725	0.22683	0.03061	0.61241
1.04767	-6.93917	1.63853	-0.35767	-1.43860	0.91144	-0.00260	4.38487	0.22507	0.03023	0.61720
1.07227	-7.06338	1.64971	-0.35862	-1.43288	0.90967	-0.00259	4.40894	0.22345	0.02983	0.62254
1.09745	-7.18908	1.66108	-0.35946	-1.42709	0.90790	-0.00258	4.43021	0.22194	0.02940	0.62833
1.12334	-7.31545	1.67240	-0.36027	-1.42123	0.90605	-0.00257	4.44917	0.22051	0.02897	0.63450
1.14982	-7.44097	1.68346	-0.36106	-1.41536	0.90411	-0.00256	4.46607	0.21916	0.02854	0.64094
1.17675	-7.56481	1.69421	-0.36184	-1.40956	0.90212	-0.00255	4.48105	0.21791	0.02811	0.64749
1.20453	-7.68946	1.70496	-0.36257	-1.40376	0.90011	-0.00254	4.49416	0.21675	0.02767	0.65411
1.23289	-7.81481	1.71585	-0.36319	-1.39801	0.89815	-0.00253	4.50471	0.21570	0.02723	0.66056
1.26183	-7.94185	1.72706	-0.36365	-1.39228	0.89630	-0.00252	4.51214	0.21479	0.02678	0.66680
1.29149	-8.07178	1.73878	-0.36393	-1.38654	0.89457	-0.00251	4.51628	0.21400	0.02631	0.67293
1.32188	-8.20447	1.75099	-0.36403	-1.38078	0.89296	-0.00251	4.51734	0.21334	0.02581	0.67905
1.35300	-8.33928	1.76357	-0.36397	-1.37502	0.89147	-0.00250	4.51567	0.21279	0.02530	0.68525
1.38485	-8.47504	1.77631	-0.36379	-1.36931	0.89008	-0.00249	4.51214	0.21233	0.02477	0.69167
1.41743	-8.61065	1.78904	-0.36354	-1.36369	0.88875	-0.00249	4.50738	0.21194	0.02424	0.69844
1.45075	-8.74509	1.80158	-0.36323	-1.35821	0.88749	-0.00248	4.50209	0.21160	0.02369	0.70563
1.48500	-8.87899	1.81394	-0.36288	-1.35281	0.88624	-0.00247	4.49602	0.21132	0.02315	0.71326
1.51999	-9.01146	1.82606	-0.36249	-1.34756	0.88503	-0.00247	4.48942	0.21110	0.02260	0.72126
1.55569	-9.14297	1.83805	-0.36202	-1.34245	0.88389	-0.00246	4.48205	0.21094	0.02205	0.72961
1.59236	-9.27510	1.85011	-0.36145	-1.33742	0.88284	-0.00246	4.47355	0.21084	0.02149	0.73832
1.62973	-9.40763	1.86230	-0.36074	-1.33250	0.88190	-0.00245	4.46374	0.21082	0.02094	0.74728
1.66806	-9.54205	1.87481	-0.35986	-1.32762	0.88110	-0.00244	4.45231	0.21087	0.02037	0.75653
1.70736	-9.67864	1.88770	-0.35879	-1.32278	0.88045	-0.00244	4.43924	0.21099	0.01979	0.76605
1.74764	-9.81743	1.90097	-0.35754	-1.31796	0.87995	-0.00243	4.42460	0.21117	0.01921	0.77581
1.78859	-9.95702	1.91447	-0.35613	-1.31322	0.87959	-0.00243	4.40879	0.21139	0.01863	0.78573
1.83083	-10.09903	1.92830	-0.35455	-1.30847	0.87937	-0.00243	4.39183	0.21167	0.01805	0.79594
1.87371	-10.24062	1.94215	-0.35286	-1.30383	0.87926	-0.00242	4.37437	0.21196	0.01749	0.80626
1.91791	-10.38326	1.95610	-0.35104	-1.29924	0.87926	-0.00242	4.35667	0.21228	0.01693	0.81679
1.96309	-10.52540	1.96994	-0.34915	-1.29473	0.87932	-0.00242	4.33875	0.21261	0.01640	0.82732

2.00924	-10.66646	1.98359	-0.34720	-1.29032	0.87944	-0.00241	4.32104	0.21294	0.01588	0.83773
2.05634	-10.80610	1.99700	-0.34519	-1.28605	0.87962	-0.00241	4.30370	0.21328	0.01540	0.84787
2.10482	-10.94540	2.01028	-0.34311	-1.28189	0.87988	-0.00241	4.28669	0.21363	0.01493	0.85768
2.15424	-11.08320	2.02334	-0.34097	-1.27788	0.88020	-0.00240	4.27006	0.21399	0.01449	0.86688
2.20507	-11.22100	2.03635	-0.33874	-1.27398	0.88060	-0.00240	4.25343	0.21437	0.01407	0.87544
2.25683	-11.35782	2.04923	-0.33643	-1.27020	0.88107	-0.00240	4.23670	0.21478	0.01367	0.88335
2.31000	-11.49526	2.06218	-0.33400	-1.26650	0.88163	-0.00239	4.21961	0.21521	0.01328	0.89079
2.36463	-11.63363	2.07525	-0.33144	-1.26287	0.88229	-0.00239	4.20194	0.21568	0.01290	0.89785
2.42014	-11.77174	2.08836	-0.32876	-1.25933	0.88304	-0.00239	4.18385	0.21616	0.01252	0.90459
2.47709	-11.91103	2.10165	-0.32593	-1.25587	0.88391	-0.00239	4.16534	0.21668	0.01215	0.91123
2.53550	-12.05149	2.11515	-0.32296	-1.25248	0.88489	-0.00238	4.14636	0.21722	0.01178	0.91794
2.59471	-12.19163	2.12870	-0.31989	-1.24916	0.88595	-0.00238	4.12692	0.21778	0.01141	0.92479
2.65604	-12.33430	2.14257	-0.31663	-1.24589	0.88715	-0.00238	4.10688	0.21837	0.01103	0.93201
2.71887	-12.47780	2.15657	-0.31325	-1.24265	0.88843	-0.00237	4.08630	0.21898	0.01064	0.93956
2.78242	-12.62023	2.17053	-0.30979	-1.23952	0.88978	-0.00237	4.06565	0.21961	0.01027	0.94742
2.84819	-12.76440	2.18466	-0.30618	-1.23646	0.89125	-0.00237	4.04482	0.22025	0.00988	0.95585
2.91545	-12.90869	2.19883	-0.30250	-1.23340	0.89274	-0.00237	4.02361	0.22090	0.00950	0.96479
2.98329	-13.05050	2.21273	-0.29875	-1.23058	0.89432	-0.00236	4.00331	0.22155	0.00912	0.97404
3.05344	-13.19347	2.22671	-0.29495	-1.22771	0.89592	-0.00236	3.98259	0.22219	0.00876	0.98358
3.12598	-13.33722	2.24072	-0.29099	-1.22501	0.89763	-0.00236	3.96247	0.22286	0.00839	0.99326
3.19898	-13.47773	2.25435	-0.28708	-1.22237	0.89930	-0.00236	3.94278	0.22350	0.00804	1.00248
3.27439	-13.61876	2.26798	-0.28305	-1.21991	0.90107	-0.00235	3.92382	0.22415	0.00770	1.01128
3.35121	-13.75794	2.28133	-0.27903	-1.21748	0.90281	-0.00235	3.90527	0.22477	0.00738	1.01933
3.43053	-13.89750	2.29467	-0.27488	-1.21526	0.90465	-0.00235	3.88760	0.22541	0.00707	1.02702
3.51124	-14.03504	2.30771	-0.27079	-1.21301	0.90642	-0.00234	3.87010	0.22602	0.00677	1.03443
3.59324	-14.17050	2.32051	-0.26657	-1.21113	0.90832	-0.00234	3.85438	0.22663	0.00648	1.04198
3.67782	-14.30630	2.33327	-0.26244	-1.20903	0.91010	-0.00233	3.83792	0.22721	0.00620	1.04997
3.76506	-14.44147	2.34588	-0.25802	-1.20748	0.91214	-0.00233	3.82391	0.22783	0.00591	1.05900
3.85356	-14.57589	2.35846	-0.25384	-1.20549	0.91392	-0.00232	3.80820	0.22838	0.00564	1.06858
3.94477	-14.70861	2.37071	-0.24932	-1.20425	0.91603	-0.00232	3.79582	0.22899	0.00535	1.07898
4.03714	-14.84139	2.38310	-0.24500	-1.20258	0.91790	-0.00231	3.78160	0.22954	0.00510	1.08946
4.13223	-14.97245	2.39513	-0.24054	-1.20127	0.91993	-0.00231	3.76923	0.23010	0.00484	1.10010
4.23012	-15.10439	2.40734	-0.23585	-1.20029	0.92211	-0.00230	3.75799	0.23069	0.00457	1.11058
4.32900	-15.23528	2.41946	-0.23155	-1.19863	0.92391	-0.00230	3.74427	0.23118	0.00435	1.12011
4.43066	-15.36315	2.43110	-0.22671	-1.19819	0.92627	-0.00229	3.73558	0.23179	0.00408	1.12932
4.53515	-15.49473	2.44336	-0.22209	-1.19700	0.92829	-0.00228	3.72366	0.23232	0.00386	1.13769
4.64253	-15.62460	2.45526	-0.21755	-1.19581	0.93029	-0.00228	3.71214	0.23280	0.00364	1.14546
4.75059	-15.75001	2.46669	-0.21247	-1.19589	0.93282	-0.00227	3.70552	0.23344	0.00339	1.15284
4.86145	-15.88018	2.47889	-0.20793	-1.19460	0.93471	-0.00226	3.69352	0.23389	0.00319	1.15932
4.97760	-16.00892	2.49058	-0.20318	-1.19385	0.93687	-0.00226	3.68401	0.23439	0.00298	1.16562
5.09424	-16.13346	2.50192	-0.19784	-1.19440	0.93958	-0.00225	3.67917	0.23505	0.00272	1.17172
5.21376	-16.26383	2.51419	-0.19325	-1.19318	0.94145	-0.00224	3.66790	0.23545	0.00254	1.17698
5.33618	-16.38908	2.52553	-0.18863	-1.19245	0.94350	-0.00224	3.65909	0.23587	0.00234	1.18210
5.46150	-16.51035	2.53639	-0.18307	-1.19362	0.94641	-0.00223	3.65673	0.23658	0.00207	1.18759
5.58971	-16.63876	2.54844	-0.17821	-1.19299	0.94849	-0.00222	3.64812	0.23700	0.00188	1.19250
5.72082	-16.76534	2.56006	-0.17395	-1.19155	0.95013	-0.00221	3.63777	0.23722	0.00173	1.19723
5.85823	-16.88475	2.57043	-0.16826	-1.19315	0.95317	-0.00220	3.63713	0.23796	0.00144	1.20310
5.99520	-17.00702	2.58165	-0.16286	-1.19394	0.95579	-0.00220	3.63385	0.23855	0.00120	1.20873
6.13497	-17.13535	2.59372	-0.15867	-1.19221	0.95720	-0.00219	3.62364	0.23861	0.00108	1.21376
6.28141	-17.25520	2.60415	-0.15394	-1.19223	0.95938	-0.00218	3.61941	0.23897	0.00088	1.21958
6.42674	-17.36599	2.61361	-0.14805	-1.19480	0.96263	-0.00217	3.62195	0.23984	0.00057	1.22612
6.57895	-17.48917	2.62495	-0.14279	-1.19532	0.96501	-0.00216	3.61915	0.24026	0.00036	1.23233
6.73401	-17.61753	2.63697	-0.13896	-1.19314	0.96611	-0.00215	3.61113	0.24000	0.00028	1.23784
6.89180	-17.72902	2.64623	-0.13428	-1.19382	0.96834	-0.00214	3.61014	0.24037	0.00008	1.24430
7.05716	-17.83746	2.65508	-0.12801	-1.19730	0.97189	-0.00213	3.61467	0.24143	-0.00027	1.25180
7.22022	-17.95255	2.66537	-0.12280	-1.19840	0.97430	-0.00212	3.61489	0.24185	-0.00048	1.25826
7.39098	-18.08009	2.67731	-0.11900	-1.19630	0.97528	-0.00211	3.61087	0.24135	-0.00054	1.26371
7.56430	-18.19376	2.68685	-0.11531	-1.19530	0.97659	-0.00210	3.60997	0.24108	-0.00064	1.26919
7.73994	-18.28815	2.69365	-0.10927	-1.19959	0.98018	-0.00209	3.61462	0.24241	-0.00100	1.27592
7.92393	-18.39553	2.70251	-0.10347	-1.20240	0.98320	-0.00209	3.61856	0.24321	-0.00130	1.28185
8.11030	-18.51212	2.71289	-0.09875	-1.20271	0.98506	-0.00207	3.62050	0.24322	-0.00145	1.28653
8.29876	-18.63746	2.72451	-0.09592	-1.19931	0.98518	-0.00206	3.62302	0.24184	-0.00141	1.28958
8.49618	-18.74088	2.73225	-0.09201	-1.19970	0.98683	-0.00205	3.62652	0.24181	-0.00155	1.29372
8.69565	-18.82570	2.73750	-0.08561	-1.20549	0.99085	-0.00205	3.62912	0.24377	-0.00199	1.29940
8.90472	-18.92898	2.74563	-0.07999	-1.20846	0.99372	-0.00204	3.63404	0.24454	-0.00227	1.30408
9.11577	-19.03823	2.75480	-0.07513	-1.20969	0.99575	-0.00202	3.63945	0.24465	-0.00246	1.30810
9.32836	-19.16424	2.76658	-0.07225	-1.20634	0.99564	-0.00201	3.65069	0.24279	-0.00239	1.31058
9.54198	-19.27373	2.77555	-0.07002	-1.20352	0.99556	-0.00200	3.66499	0.24096	-0.00232	1.31335
9.76563	-19.34697	2.77868	-0.06434	-1.20935	0.99931	-0.00199	3.65893	0.24342	-0.00276	1.31967
10.00000	-19.43022	2.78367	-0.05806	-1.21521	1.00324	-0.00198	3.65965	0.24544	-0.00318	1.32653

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Median stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 15 - 30 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.67289	3.38081	-0.04621	-1.69420	1.03467	-0.00102	1.26160	0.44173	-0.01500	0.32382
PGV	7.68873	1.84447	-0.02253	-3.51175	1.74330	-0.00119	15.53139	0.25872	-0.03257	0.58155
PGA	-0.00110	1.48139	-0.05131	-2.25562	0.88890	-0.00273	2.77341	0.52116	-0.02459	0.73253
0.01000	0.76106	1.50912	-0.04492	-2.41687	0.88389	-0.00252	3.40463	0.50430	-0.00906	0.73305
0.01024	0.79223	1.51190	-0.04402	-2.42442	0.87957	-0.00250	3.41823	0.50486	-0.00920	0.73462
0.01048	0.82381	1.51462	-0.04313	-2.43198	0.87517	-0.00248	3.43145	0.50543	-0.00935	0.73623
0.01072	0.85563	1.51732	-0.04222	-2.43953	0.87070	-0.00246	3.44410	0.50600	-0.00951	0.73785
0.01097	0.88878	1.52003	-0.04129	-2.44733	0.86620	-0.00244	3.45716	0.50656	-0.00968	0.73953
0.01123	0.92508	1.52280	-0.04033	-2.45575	0.86176	-0.00241	3.47254	0.50705	-0.00988	0.74136
0.01150	0.96414	1.52559	-0.03936	-2.46468	0.85740	-0.00239	3.48999	0.50747	-0.01010	0.74331
0.01177	1.00557	1.52839	-0.03838	-2.47402	0.85309	-0.00237	3.50937	0.50783	-0.01033	0.74530
0.01205	1.05095	1.53120	-0.03742	-2.48401	0.84864	-0.00235	3.53250	0.50807	-0.01057	0.74731
0.01233	1.10011	1.53402	-0.03646	-2.49466	0.84391	-0.00232	3.55896	0.50823	-0.01081	0.74928
0.01262	1.15341	1.53688	-0.03551	-2.50609	0.83911	-0.00230	3.58898	0.50827	-0.01104	0.75116
0.01292	1.21049	1.53978	-0.03457	-2.51823	0.83448	-0.00227	3.62251	0.50820	-0.01126	0.75304
0.01322	1.26562	1.54263	-0.03364	-2.52992	0.82972	-0.00224	3.65345	0.50822	-0.01148	0.75484
0.01353	1.31536	1.54542	-0.03267	-2.54052	0.82461	-0.00222	3.67764	0.50847	-0.01167	0.75642
0.01385	1.36294	1.54820	-0.03166	-2.55072	0.81943	-0.00220	3.69844	0.50883	-0.01186	0.75805
0.01417	1.40749	1.55096	-0.03064	-2.56029	0.81417	-0.00217	3.71509	0.50931	-0.01211	0.76005
0.01451	1.44434	1.55364	-0.02961	-2.56830	0.80836	-0.00215	3.72272	0.51010	-0.01237	0.76216
0.01485	1.47440	1.55627	-0.02856	-2.57495	0.80187	-0.00213	3.72251	0.51115	-0.01254	0.76377
0.01520	1.50060	1.55887	-0.02747	-2.58081	0.79498	-0.00211	3.71831	0.51233	-0.01263	0.76489
0.01556	1.52212	1.56136	-0.02639	-2.58566	0.78784	-0.00209	3.70958	0.51365	-0.01272	0.76611
0.01592	1.54437	1.56380	-0.02533	-2.59051	0.78082	-0.00207	3.70160	0.51493	-0.01289	0.76789
0.01630	1.57529	1.56631	-0.02430	-2.59695	0.77422	-0.00205	3.70258	0.51594	-0.01312	0.77021
0.01668	1.61346	1.56890	-0.02324	-2.60468	0.76772	-0.00203	3.71132	0.51672	-0.01340	0.77292
0.01707	1.65183	1.57144	-0.02217	-2.61225	0.76073	-0.00201	3.72083	0.51749	-0.01369	0.77569
0.01748	1.68208	1.57387	-0.02114	-2.61810	0.75302	-0.00200	3.72257	0.51852	-0.01388	0.77786
0.01789	1.69982	1.57621	-0.02013	-2.62155	0.74476	-0.00198	3.71087	0.51998	-0.01390	0.77897
0.01831	1.71087	1.57859	-0.01906	-2.62384	0.73647	-0.00197	3.69000	0.52174	-0.01381	0.77942
0.01874	1.72297	1.58102	-0.01790	-2.62639	0.72848	-0.00195	3.66769	0.52357	-0.01377	0.78022
0.01918	1.73474	1.58338	-0.01667	-2.62875	0.72046	-0.00194	3.64427	0.52544	-0.01388	0.78201
0.01963	1.73906	1.58554	-0.01544	-2.62944	0.71212	-0.00193	3.61465	0.52750	-0.01408	0.78439
0.02009	1.73785	1.58751	-0.01425	-2.62887	0.70363	-0.00192	3.58190	0.52964	-0.01425	0.78651
0.02057	1.74099	1.58944	-0.01315	-2.62900	0.69522	-0.00191	3.55529	0.53157	-0.01431	0.78799
0.02105	1.74760	1.59142	-0.01213	-2.62980	0.68698	-0.00190	3.53231	0.53338	-0.01428	0.78890
0.02154	1.75252	1.59338	-0.01117	-2.63020	0.67873	-0.00189	3.50768	0.53524	-0.01419	0.78951
0.02205	1.75978	1.59523	-0.01031	-2.63072	0.67013	-0.00188	3.48666	0.53701	-0.01406	0.78988
0.02257	1.76956	1.59695	-0.00952	-2.63129	0.66105	-0.00188	3.47021	0.53865	-0.01390	0.79007
0.02310	1.76822	1.59857	-0.00868	-2.62956	0.65168	-0.00187	3.44411	0.54064	-0.01375	0.79022
0.02364	1.73770	1.60020	-0.00774	-2.62265	0.64250	-0.00188	3.38902	0.54364	-0.01359	0.79036
0.02420	1.68322	1.60193	-0.00673	-2.61176	0.63437	-0.00189	3.31006	0.54746	-0.01347	0.79084
0.02477	1.62771	1.60359	-0.00566	-2.60072	0.62709	-0.00190	3.23155	0.55129	-0.01351	0.79244
0.02535	1.58195	1.60490	-0.00461	-2.59084	0.61893	-0.00192	3.16526	0.55474	-0.01365	0.79468
0.02595	1.54603	1.60594	-0.00361	-2.58215	0.60906	-0.00192	3.11052	0.55787	-0.01363	0.79589
0.02656	1.52294	1.60707	-0.00268	-2.57570	0.59874	-0.00193	3.06912	0.56055	-0.01334	0.79517
0.02719	1.51485	1.60839	-0.00181	-2.57217	0.58948	-0.00193	3.04348	0.56259	-0.01278	0.79272
0.02783	1.51174	1.60974	-0.00104	-2.56963	0.58118	-0.00193	3.02430	0.56432	-0.01203	0.78910
0.02848	1.49054	1.61081	-0.00034	-2.56360	0.57278	-0.00193	2.99001	0.56660	-0.01120	0.78512
0.02915	1.43324	1.61141	0.00042	-2.55058	0.56381	-0.00195	2.92436	0.57015	-0.01046	0.78175
0.02984	1.34472	1.61171	0.00131	-2.53146	0.55464	-0.00198	2.83308	0.57485	-0.00992	0.77982
0.03054	1.25054	1.61214	0.00231	-2.51110	0.54586	-0.00201	2.74005	0.57984	-0.00962	0.77951
0.03126	1.17599	1.61311	0.00331	-2.49462	0.53809	-0.00204	2.66646	0.58415	-0.00943	0.78004
0.03199	1.12444	1.61467	0.00424	-2.48314	0.53152	-0.00206	2.61307	0.58759	-0.00914	0.77989
0.03275	1.07684	1.61639	0.00512	-2.47304	0.52553	-0.00208	2.56251	0.59085	-0.00862	0.77832
0.03352	1.01451	1.61760	0.00600	-2.46022	0.51932	-0.00210	2.50008	0.59459	-0.00802	0.77614
0.03430	0.92817	1.61781	0.00694	-2.44229	0.51236	-0.00213	2.42010	0.59913	-0.00745	0.77413
0.03511	0.81701	1.61679	0.00793	-2.41864	0.50490	-0.00216	2.32413	0.60451	-0.00696	0.77262
0.03594	0.69131	1.61465	0.00884	-2.39105	0.49778	-0.00220	2.22215	0.61028	-0.00664	0.77220
0.03678	0.56951	1.61193	0.00949	-2.36332	0.49206	-0.00225	2.12872	0.61571	-0.00651	0.77303
0.03765	0.47353	1.60953	0.00982	-2.34046	0.48905	-0.00230	2.05842	0.61993	-0.00643	0.77420
0.03854	0.42035	1.60831	0.00999	-2.32657	0.48911	-0.00234	2.02064	0.62234	-0.00623	0.77452
0.03944	0.40804	1.60850	0.01022	-2.32151	0.49033	-0.00237	2.01206	0.62314	-0.00585	0.77365
0.04037	0.40920	1.60958	0.01070	-2.31946	0.48976	-0.00239	2.01303	0.62362	-0.00534	0.77204
0.04132	0.39204	1.61069	0.01148	-2.31359	0.48602	-0.00241	2.00162	0.62508	-0.00487	0.77092
0.04229	0.34040	1.61143	0.01251	-2.30074	0.47959	-0.00244	1.96675	0.62813	-0.00464	0.77151
0.04329	0.25290	1.61185	0.01370	-2.28108	0.47136	-0.00247	1.90756	0.63279	-0.00460	0.77338
0.04431	0.13502	1.61204	0.01501	-2.25597	0.46197	-0.00251	1.82795	0.63891	-0.00452	0.77477
0.04535	-0.00435	1.61209	0.01638	-2.22724	0.45198	-0.00255	1.73437	0.64618	-0.00420	0.77437

0.04642	-0.15349	1.61192	0.01763	-2.19701	0.44183	-0.00259	1.63518	0.65414	-0.00362	0.77201
0.04751	-0.30286	1.61111	0.01864	-2.16647	0.43207	-0.00262	1.53763	0.66227	-0.00296	0.76883
0.04863	-0.44350	1.60913	0.01941	-2.13640	0.42356	-0.00266	1.44874	0.66995	-0.00250	0.76665
0.04977	-0.56784	1.60579	0.01999	-2.10775	0.41681	-0.00271	1.37362	0.67664	-0.00236	0.76644
0.05094	-0.66795	1.60152	0.02028	-2.08225	0.41216	-0.00275	1.31628	0.68186	-0.00252	0.76816
0.05214	-0.73805	1.59725	0.02015	-2.06206	0.41015	-0.00279	1.27842	0.68532	-0.00279	0.77083
0.05337	-0.78753	1.59344	0.01971	-2.04622	0.41090	-0.00283	1.25272	0.68759	-0.00292	0.77285
0.05462	-0.83863	1.58987	0.01932	-2.03076	0.41369	-0.00288	1.22529	0.68998	-0.00277	0.77317
0.05591	-0.90696	1.58658	0.01929	-2.01295	0.41775	-0.00292	1.18748	0.69343	-0.00237	0.77207
0.05722	-0.99307	1.58396	0.01976	-1.99297	0.42298	-0.00298	1.14092	0.69792	-0.00188	0.77050
0.05857	-1.08833	1.58242	0.02065	-1.97263	0.42973	-0.00304	1.09261	0.70282	-0.00124	0.76811
0.05995	-1.18502	1.58180	0.02169	-1.95316	0.43770	-0.00310	1.04743	0.70756	-0.00025	0.76330
0.06136	-1.28050	1.58114	0.02253	-1.93402	0.44580	-0.00317	1.00603	0.71194	0.00106	0.75624
0.06280	-1.37423	1.57904	0.02289	-1.91372	0.45322	-0.00323	0.96776	0.71590	0.00233	0.74926
0.06428	-1.46040	1.57439	0.02259	-1.89204	0.46008	-0.00330	0.93456	0.71904	0.00320	0.74489
0.06579	-1.52369	1.56737	0.02149	-1.87185	0.46739	-0.00336	0.91290	0.72042	0.00343	0.74464
0.06734	-1.54979	1.55962	0.01958	-1.85744	0.47609	-0.00341	0.90938	0.71922	0.00305	0.74847
0.06893	-1.53972	1.55293	0.01719	-1.85050	0.48552	-0.00345	0.92364	0.71576	0.00225	0.75495
0.07055	-1.50792	1.54829	0.01472	-1.84961	0.49354	-0.00348	0.94825	0.71132	0.00138	0.76172
0.07221	-1.47345	1.54563	0.01248	-1.85151	0.49815	-0.00348	0.97266	0.70742	0.00075	0.76670
0.07391	-1.45467	1.54372	0.01061	-1.85176	0.49813	-0.00347	0.98631	0.70522	0.00042	0.76962
0.07565	-1.46332	1.54117	0.00911	-1.84673	0.49309	-0.00345	0.98253	0.70534	0.00029	0.77118
0.07743	-1.50537	1.53757	0.00791	-1.83474	0.48383	-0.00342	0.95898	0.70803	0.00035	0.77156
0.07925	-1.58335	1.53334	0.00706	-1.81563	0.47242	-0.00341	0.91646	0.71336	0.00062	0.77045
0.08111	-1.69282	1.52893	0.00651	-1.79061	0.46122	-0.00340	0.85967	0.72098	0.00111	0.76784
0.08302	-1.82004	1.52442	0.00609	-1.76224	0.45239	-0.00342	0.79726	0.72991	0.00177	0.76405
0.08498	-1.94720	1.51928	0.00553	-1.73332	0.44794	-0.00344	0.73802	0.73876	0.00246	0.76004
0.08697	-2.06069	1.51289	0.00466	-1.70578	0.44954	-0.00349	0.68747	0.74636	0.00300	0.75720
0.08902	-2.15126	1.50508	0.00336	-1.68114	0.45804	-0.00354	0.64861	0.75181	0.00329	0.75628
0.09112	-2.21448	1.49640	0.00163	-1.66073	0.47294	-0.00361	0.62248	0.75466	0.00339	0.75694
0.09326	-2.24894	1.48808	-0.00050	-1.64608	0.49279	-0.00369	0.60950	0.75477	0.00345	0.75814
0.09545	-2.25791	1.48108	-0.00294	-1.63760	0.51548	-0.00376	0.60857	0.75240	0.00354	0.75935
0.09770	-2.25127	1.47556	-0.00547	-1.63364	0.53878	-0.00382	0.61594	0.74843	0.00360	0.76084
0.10000	-2.24178	1.47125	-0.00789	-1.63158	0.56096	-0.00388	0.62642	0.74400	0.00368	0.76225
0.10235	-2.24166	1.46769	-0.01007	-1.62864	0.58056	-0.00393	0.63449	0.74023	0.00394	0.76230
0.10476	-2.26085	1.46425	-0.01203	-1.62229	0.59603	-0.00398	0.63497	0.73809	0.00454	0.76000
0.10723	-2.30163	1.46046	-0.01388	-1.61157	0.60639	-0.00402	0.62593	0.73793	0.00543	0.75552
0.10975	-2.35565	1.45631	-0.01588	-1.59802	0.61201	-0.00405	0.61052	0.73918	0.00640	0.75013
0.11233	-2.41347	1.45218	-0.01819	-1.58389	0.61408	-0.00407	0.59270	0.74109	0.00727	0.74494
0.11498	-2.46879	1.44854	-0.02082	-1.57095	0.61399	-0.00408	0.57535	0.74308	0.00806	0.73994
0.11768	-2.51828	1.44579	-0.02370	-1.56040	0.61271	-0.00408	0.55998	0.74481	0.00885	0.73460
0.12045	-2.56085	1.44399	-0.02673	-1.55259	0.61066	-0.00406	0.54706	0.74615	0.00966	0.72905
0.12328	-2.60083	1.44266	-0.02983	-1.54605	0.60777	-0.00404	0.53471	0.74747	0.01036	0.72443
0.12619	-2.64473	1.44090	-0.03290	-1.53844	0.60366	-0.00401	0.52017	0.74935	0.01076	0.72191
0.12916	-2.69536	1.43820	-0.03592	-1.52859	0.59797	-0.00398	0.50233	0.75207	0.01077	0.72198
0.13219	-2.75060	1.43485	-0.03886	-1.51720	0.59111	-0.00394	0.48253	0.75540	0.01049	0.72380
0.13531	-2.80706	1.43132	-0.04171	-1.50551	0.58448	-0.00391	0.46272	0.75885	0.01010	0.72590
0.13849	-2.86153	1.42774	-0.04446	-1.49431	0.57999	-0.00388	0.44459	0.76190	0.00972	0.72748
0.14175	-2.91032	1.42393	-0.04722	-1.48406	0.57905	-0.00386	0.42969	0.76397	0.00934	0.72865
0.14508	-2.95064	1.41963	-0.05015	-1.47485	0.58182	-0.00385	0.41905	0.76463	0.00893	0.72992
0.14850	-2.93779	1.41557	-0.05419	-1.47605	0.59414	-0.00384	0.42897	0.75840	0.00847	0.73156
0.15199	-2.99963	1.41017	-0.05715	-1.46062	0.59605	-0.00384	0.41293	0.76103	0.00783	0.73478
0.15557	-3.00877	1.40613	-0.06119	-1.45661	0.60612	-0.00384	0.41742	0.75703	0.00724	0.73828
0.15923	-3.00905	1.40311	-0.06549	-1.45513	0.61690	-0.00384	0.42654	0.75185	0.00680	0.74126
0.16298	-3.00451	1.40099	-0.06985	-1.45544	0.62703	-0.00383	0.43859	0.74609	0.00665	0.74280
0.16681	-3.00023	1.39924	-0.07409	-1.45606	0.63512	-0.00381	0.45119	0.74040	0.00675	0.74292
0.17074	-3.00244	1.39709	-0.07810	-1.45499	0.63990	-0.00378	0.46127	0.73554	0.00694	0.74259
0.17475	-3.01443	1.39401	-0.08186	-1.45094	0.64112	-0.00375	0.46696	0.73186	0.00702	0.74307
0.17887	-3.03231	1.38989	-0.08555	-1.44443	0.63992	-0.00372	0.46994	0.72883	0.00695	0.74465
0.18307	-3.05014	1.38508	-0.08931	-1.43692	0.63792	-0.00369	0.47292	0.72575	0.00676	0.74703
0.18738	-3.06275	1.38017	-0.09319	-1.43002	0.63640	-0.00366	0.47843	0.72205	0.00651	0.74997
0.19179	-3.06555	1.37575	-0.09717	-1.42530	0.63650	-0.00363	0.48885	0.71724	0.00621	0.75324
0.19631	-3.05874	1.37211	-0.10115	-1.42306	0.63873	-0.00361	0.50444	0.71139	0.00590	0.75660
0.20092	-3.04308	1.36923	-0.10512	-1.42316	0.64294	-0.00358	0.52514	0.70466	0.00555	0.76008
0.20565	-3.01686	1.36710	-0.10911	-1.42597	0.64884	-0.00356	0.55193	0.69695	0.00510	0.76402
0.21049	-2.97980	1.36561	-0.11308	-1.43149	0.65584	-0.00353	0.58518	0.68838	0.00455	0.76847
0.21544	-2.93561	1.36455	-0.11702	-1.43879	0.66318	-0.00350	0.62299	0.67949	0.00392	0.77331
0.22051	-2.88780	1.36364	-0.12094	-1.44693	0.67024	-0.00346	0.66347	0.67071	0.00327	0.77809
0.22570	-2.83915	1.36270	-0.12487	-1.45521	0.67673	-0.00342	0.70497	0.66231	0.00272	0.78225
0.23101	-2.78999	1.36164	-0.12881	-1.46343	0.68244	-0.00337	0.74743	0.65425	0.00233	0.78551
0.23645	-2.74209	1.36047	-0.13274	-1.47123	0.68715	-0.00332	0.78986	0.64669	0.00211	0.78786
0.24201	-2.69518	1.35934	-0.13676	-1.47883	0.69068	-0.00327	0.83254	0.63955	0.00214	0.78904
0.24771	-2.64597	1.35856	-0.14088	-1.48730	0.69369	-0.00321	0.87801	0.63243	0.00243	0.78884
0.25354	-2.59698	1.35830	-0.14498	-1.49639	0.69726	-0.00315	0.92488	0.62552	0.00299	0.78707
0.25950	-2.54974	1.35847	-0.14902	-1.50574	0.70253	-0.00310	0.97249	0.61883	0.00379	0.78391
0.26561	-2.49963	1.35925	-0.15299	-1.51642	0.71022	-0.00306	1.02432	0.61191	0.00474	0.77981
0.27186	-2.44310	1.36100	-0.15687	-1.52955	0.72079	-0.00303	1.08374	0.60449	0.00586	0.77469
0.27826	-2.38945	1.36306	-0.16056	-1.54264	0.73294	-0.00301	1.14464	0.59718	0.00714	0.76862
0.28480	-2.34943	1.36496	-0.16402	-1.55321	0.74611	-0.00301	1.19895	0.59064	0.00856	0.76163
0.29150	-2.32475	1.36743	-0.16729	-1.56156	0.76064	-0.00302	1.24607	0.58495	0.01018	0.75356
0.29836	-2.32225	1.37003	-0.17046	-1.56584	0.77521	-0.00304	1.27977	0.58054	0.01182	0.74551

0.30539	-2.34026	1.37295	-0.17346	-1.56672	0.78892	-0.00308	1.30064	0.57727	0.01352	0.73708
0.31257	-2.37460	1.37618	-0.17627	-1.56505	0.80213	-0.00312	1.31115	0.57485	0.01516	0.72889
0.31993	-2.42062	1.38016	-0.17892	-1.56215	0.81594	-0.00317	1.31533	0.57297	0.01666	0.72146
0.32745	-2.48288	1.38461	-0.18138	-1.55702	0.82946	-0.00324	1.30793	0.57199	0.01810	0.71408
0.33517	-2.55670	1.38952	-0.18389	-1.55063	0.84232	-0.00331	1.29160	0.57173	0.01927	0.70828
0.34304	-2.65141	1.39360	-0.18643	-1.53993	0.85259	-0.00337	1.25740	0.57281	0.01996	0.70555
0.35112	-2.77046	1.39693	-0.18890	-1.52445	0.85891	-0.00344	1.20344	0.57555	0.02028	0.70516
0.35938	-2.90065	1.40023	-0.19139	-1.50736	0.86273	-0.00349	1.14178	0.57913	0.02043	0.70558
0.36784	-3.03600	1.40374	-0.19390	-1.49010	0.86427	-0.00354	1.07878	0.58302	0.02033	0.70750
0.37649	-3.17365	1.40785	-0.19650	-1.47357	0.86418	-0.00358	1.01778	0.58697	0.01992	0.71134
0.38536	-3.31379	1.41167	-0.19912	-1.45672	0.86243	-0.00361	0.95852	0.59087	0.01902	0.71841
0.39442	-3.44528	1.41522	-0.20207	-1.44178	0.85948	-0.00364	0.90910	0.59363	0.01776	0.72785
0.40370	-3.57246	1.41853	-0.20530	-1.42773	0.85728	-0.00366	0.86731	0.59530	0.01632	0.73835
0.41321	-3.69784	1.42143	-0.20883	-1.41375	0.85725	-0.00369	0.83097	0.59609	0.01481	0.74934
0.42292	-3.81924	1.42400	-0.21280	-1.40048	0.85710	-0.00372	0.80031	0.59593	0.01337	0.75968
0.43288	-3.93039	1.42716	-0.21720	-1.39036	0.85719	-0.00374	0.78010	0.59415	0.01212	0.76861
0.44307	-4.03004	1.43121	-0.22195	-1.38381	0.85965	-0.00376	0.77100	0.59064	0.01119	0.77535
0.45349	-4.12576	1.43595	-0.22684	-1.37913	0.86327	-0.00377	0.76758	0.58626	0.01060	0.77991
0.46417	-4.21855	1.44131	-0.23172	-1.37605	0.86635	-0.00378	0.76950	0.58105	0.01028	0.78268
0.47508	-4.30502	1.44764	-0.23660	-1.37561	0.87089	-0.00379	0.78026	0.57449	0.01041	0.78256
0.48626	-4.38558	1.45378	-0.24160	-1.37636	0.87625	-0.00380	0.79880	0.56660	0.01091	0.78006
0.49771	-4.46238	1.45942	-0.24671	-1.37755	0.88201	-0.00380	0.82310	0.55773	0.01167	0.77596
0.50942	-4.53778	1.46450	-0.25186	-1.37870	0.88611	-0.00379	0.85170	0.54814	0.01256	0.77120
0.52140	-4.60902	1.46986	-0.25700	-1.38103	0.89051	-0.00378	0.88891	0.53750	0.01356	0.76582
0.53367	-4.67426	1.47540	-0.26214	-1.38485	0.89542	-0.00376	0.93669	0.52571	0.01476	0.75894
0.54624	-4.72986	1.48060	-0.26736	-1.39043	0.90103	-0.00374	0.99800	0.51256	0.01618	0.75057
0.55910	-4.77551	1.48530	-0.27267	-1.39757	0.90754	-0.00372	1.07498	0.49806	0.01777	0.74092
0.57225	-4.81180	1.48995	-0.27798	-1.40656	0.91505	-0.00369	1.17021	0.48233	0.01952	0.72997
0.58569	-4.84035	1.49462	-0.28313	-1.41718	0.92377	-0.00366	1.28457	0.46566	0.02134	0.71825
0.59948	-4.86169	1.49928	-0.28812	-1.42935	0.93327	-0.00362	1.41863	0.44843	0.02315	0.70644
0.61357	-4.87686	1.50358	-0.29294	-1.44238	0.94327	-0.00359	1.57070	0.43110	0.02482	0.69552
0.62802	-4.88691	1.50761	-0.29757	-1.45618	0.95372	-0.00355	1.74257	0.41371	0.02629	0.68598
0.64280	-4.89430	1.51174	-0.30191	-1.47056	0.96432	-0.00351	1.93410	0.39651	0.02750	0.67805
0.65794	-4.90339	1.51621	-0.30587	-1.48485	0.97479	-0.00347	2.14152	0.37981	0.02849	0.67165
0.67340	-4.91546	1.52077	-0.30951	-1.49853	0.98503	-0.00343	2.36072	0.36387	0.02928	0.66660
0.68927	-4.93052	1.52508	-0.31295	-1.51129	0.99502	-0.00339	2.59041	0.34864	0.02992	0.66262
0.70547	-4.94920	1.52906	-0.31621	-1.52284	1.00457	-0.00335	2.82710	0.33421	0.03047	0.65933
0.72207	-4.97343	1.53304	-0.31928	-1.53316	1.01348	-0.00332	3.06950	0.32053	0.03093	0.65631
0.73910	-5.00510	1.53741	-0.32211	-1.54221	1.02171	-0.00328	3.31459	0.30764	0.03132	0.65334
0.75649	-5.04472	1.54226	-0.32470	-1.54990	1.02915	-0.00325	3.55827	0.29563	0.03162	0.65025
0.77429	-5.09128	1.54737	-0.32712	-1.55628	1.03571	-0.00322	3.79870	0.28446	0.03185	0.64676
0.79246	-5.14299	1.55242	-0.32944	-1.56136	1.04138	-0.00319	4.03345	0.27410	0.03205	0.64261
0.81116	-5.19996	1.55739	-0.33170	-1.56525	1.04626	-0.00316	4.26312	0.26442	0.03223	0.63785
0.83022	-5.26216	1.56245	-0.33383	-1.56803	1.05041	-0.00314	4.48451	0.25545	0.03238	0.63278
0.84976	-5.33202	1.56801	-0.33579	-1.56963	1.05383	-0.00311	4.69578	0.24716	0.03250	0.62759
0.86972	-5.40999	1.57426	-0.33755	-1.57010	1.05656	-0.00309	4.89423	0.23955	0.03259	0.62265
0.89023	-5.49645	1.58116	-0.33914	-1.56939	1.05857	-0.00307	5.07889	0.23256	0.03266	0.61838
0.91116	-5.58959	1.58834	-0.34063	-1.56745	1.05977	-0.00305	5.24656	0.22620	0.03269	0.61526
0.93257	-5.68778	1.59549	-0.34210	-1.56437	1.06019	-0.00303	5.39802	0.22038	0.03270	0.61333
0.95456	-5.79044	1.60250	-0.34356	-1.56020	1.05987	-0.00301	5.53393	0.21503	0.03268	0.61257
0.97704	-5.89721	1.60947	-0.34500	-1.55509	1.05890	-0.00299	5.65412	0.21012	0.03263	0.61294
1.00000	-6.00924	1.61668	-0.34635	-1.54908	1.05730	-0.00298	5.75790	0.20566	0.03254	0.61433
1.02354	-6.12757	1.62443	-0.34754	-1.54226	1.05517	-0.00296	5.84632	0.20160	0.03241	0.61662
1.04767	-6.25216	1.63283	-0.34857	-1.53476	1.05259	-0.00295	5.91999	0.19792	0.03224	0.61969
1.07227	-6.38120	1.64174	-0.34944	-1.52676	1.04965	-0.00294	5.98036	0.19459	0.03204	0.62336
1.09745	-6.51366	1.65095	-0.35021	-1.51831	1.04638	-0.00293	6.02890	0.19157	0.03181	0.62753
1.12334	-6.64852	1.66021	-0.35094	-1.50944	1.04280	-0.00292	6.06697	0.18880	0.03158	0.63215
1.14982	-6.78381	1.66929	-0.35166	-1.50032	1.03896	-0.00291	6.09570	0.18627	0.03133	0.63709
1.17675	-6.91845	1.67813	-0.35235	-1.49105	1.03494	-0.00289	6.11560	0.18399	0.03108	0.64223
1.20453	-7.05487	1.68700	-0.35301	-1.48155	1.03074	-0.00289	6.12721	0.18192	0.03082	0.64748
1.23289	-7.19233	1.69607	-0.35355	-1.47201	1.02646	-0.00288	6.13108	0.18008	0.03055	0.65264
1.26183	-7.33130	1.70552	-0.35395	-1.46254	1.02221	-0.00287	6.12827	0.17848	0.03025	0.65766
1.29149	-7.47260	1.71555	-0.35418	-1.45319	1.01805	-0.00286	6.12001	0.17708	0.02993	0.66265
1.32188	-7.61641	1.72614	-0.35423	-1.44390	1.01394	-0.00285	6.10586	0.17590	0.02958	0.66768
1.35300	-7.76176	1.73718	-0.35414	-1.43477	1.00994	-0.00284	6.08736	0.17490	0.02920	0.67285
1.38485	-7.90758	1.74848	-0.35392	-1.42584	1.00608	-0.00283	6.06530	0.17406	0.02881	0.67828
1.41743	-8.05276	1.75984	-0.35364	-1.41714	1.00235	-0.00283	6.04045	0.17338	0.02840	0.68411
1.45075	-8.19646	1.77110	-0.35330	-1.40868	0.99875	-0.00282	6.01320	0.17285	0.02798	0.69040
1.48500	-8.33915	1.78222	-0.35292	-1.40042	0.99527	-0.00281	5.98364	0.17245	0.02755	0.69717
1.51999	-8.47989	1.79316	-0.35251	-1.39242	0.99193	-0.00281	5.95218	0.17219	0.02711	0.70436
1.55569	-8.61902	1.80399	-0.35204	-1.38470	0.98875	-0.00280	5.91904	0.17205	0.02666	0.71194
1.59236	-8.75817	1.81493	-0.35147	-1.37718	0.98572	-0.00279	5.88378	0.17205	0.02620	0.71994
1.62973	-8.89647	1.82605	-0.35078	-1.37005	0.98296	-0.00279	5.84832	0.17217	0.02572	0.72829
1.66806	-9.03552	1.83753	-0.34994	-1.36321	0.98045	-0.00278	5.81215	0.17240	0.02521	0.73702
1.70736	-9.17565	1.84944	-0.34893	-1.35667	0.97818	-0.00277	5.77543	0.17275	0.02468	0.74613
1.74764	-9.31694	1.86178	-0.34775	-1.35039	0.97615	-0.00277	5.73826	0.17320	0.02411	0.75560
1.78859	-9.45817	1.87441	-0.34641	-1.34440	0.97437	-0.00276	5.70094	0.17373	0.02353	0.76536
1.83083	-9.60115	1.88741	-0.34493	-1.33858	0.97277	-0.00276	5.66290	0.17434	0.02292	0.77552
1.87371	-9.74322	1.90048	-0.34334	-1.33298	0.97136	-0.00275	5.62462	0.17501	0.02231	0.78589
1.91791	-9.88618	1.91368	-0.34164	-1.32749	0.97008	-0.00275	5.58530	0.17575	0.02170	0.79656
1.96309	-10.02841	1.92681	-0.33987	-1.32215	0.96893	-0.00274	5.54528	0.17655	0.02109	0.80731

2.00924	-10.16956	1.93977	-0.33803	-1.31692	0.96788	-0.00274	5.50447	0.17741	0.02049	0.81801
2.05634	-10.30931	1.95251	-0.33614	-1.31183	0.96692	-0.00273	5.46311	0.17831	0.01991	0.82848
2.10482	-10.44882	1.96513	-0.33419	-1.30681	0.96606	-0.00273	5.42083	0.17926	0.01935	0.83865
2.15424	-10.58691	1.97753	-0.33217	-1.30193	0.96530	-0.00272	5.37811	0.18025	0.01881	0.84823
2.20507	-10.72501	1.98988	-0.33007	-1.29714	0.96463	-0.00272	5.33469	0.18130	0.01829	0.85721
2.25683	-10.86202	2.00213	-0.32789	-1.29251	0.96408	-0.00271	5.29125	0.18239	0.01778	0.86554
2.31000	-10.99943	2.01445	-0.32558	-1.28800	0.96366	-0.00271	5.24777	0.18351	0.01729	0.87341
2.36463	-11.13756	2.02690	-0.32314	-1.28361	0.96337	-0.00271	5.20431	0.18467	0.01680	0.88092
2.42014	-11.27513	2.03942	-0.32058	-1.27940	0.96322	-0.00270	5.16157	0.18585	0.01631	0.88814
2.47709	-11.41351	2.05214	-0.31786	-1.27536	0.96324	-0.00270	5.11952	0.18706	0.01582	0.89529
2.53550	-11.55280	2.06510	-0.31499	-1.27147	0.96340	-0.00269	5.07813	0.18828	0.01532	0.90254
2.59471	-11.69147	2.07815	-0.31202	-1.26775	0.96370	-0.00269	5.03781	0.18952	0.01482	0.90996
2.65604	-11.83229	2.09153	-0.30884	-1.26417	0.96417	-0.00269	4.99818	0.19078	0.01430	0.91777
2.71887	-11.97372	2.10508	-0.30554	-1.26071	0.96476	-0.00268	4.95938	0.19204	0.01378	0.92592
2.78242	-12.11387	2.11862	-0.30215	-1.25744	0.96546	-0.00268	4.92203	0.19329	0.01326	0.93438
2.84819	-12.25549	2.13236	-0.29858	-1.25431	0.96632	-0.00268	4.88569	0.19455	0.01274	0.94341
2.91545	-12.39723	2.14617	-0.29495	-1.25124	0.96724	-0.00267	4.84987	0.19580	0.01223	0.95294
2.98329	-12.53629	2.15971	-0.29124	-1.24844	0.96830	-0.00267	4.81631	0.19702	0.01172	0.96275
3.05344	-12.67664	2.17339	-0.28745	-1.24562	0.96939	-0.00267	4.78274	0.19824	0.01123	0.97282
3.12598	-12.81756	2.18708	-0.28350	-1.24299	0.97065	-0.00266	4.75052	0.19946	0.01074	0.98299
3.19898	-12.95549	2.20042	-0.27960	-1.24043	0.97188	-0.00266	4.71931	0.20064	0.01029	0.99268
3.27439	-13.09383	2.21376	-0.27555	-1.23804	0.97326	-0.00265	4.68923	0.20182	0.00985	1.00189
3.35121	-13.23053	2.22684	-0.27153	-1.23569	0.97463	-0.00265	4.65987	0.20296	0.00944	1.01032
3.43053	-13.36752	2.23990	-0.26734	-1.23353	0.97613	-0.00265	4.63171	0.20411	0.00904	1.01835
3.51124	-13.50277	2.25270	-0.26322	-1.23136	0.97759	-0.00264	4.60395	0.20521	0.00866	1.02606
3.59324	-13.63574	2.26520	-0.25896	-1.22951	0.97923	-0.00264	4.57857	0.20631	0.00830	1.03387
3.67782	-13.76967	2.27776	-0.25479	-1.22744	0.98072	-0.00263	4.55198	0.20737	0.00795	1.04213
3.76506	-13.90223	2.29004	-0.25031	-1.22591	0.98257	-0.00263	4.52915	0.20844	0.00760	1.05136
3.85356	-14.03510	2.30245	-0.24608	-1.22396	0.98408	-0.00262	4.50363	0.20947	0.00727	1.06117
3.94477	-14.16517	2.31436	-0.24148	-1.22272	0.98607	-0.00262	4.48354	0.21048	0.00694	1.07173
4.03714	-14.29633	2.32658	-0.23710	-1.22108	0.98774	-0.00261	4.46051	0.21147	0.00663	1.08238
4.13223	-14.42529	2.33835	-0.23257	-1.21978	0.98963	-0.00261	4.44071	0.21242	0.00633	1.09316
4.23012	-14.55475	2.35025	-0.22779	-1.21883	0.99174	-0.00260	4.42289	0.21338	0.00602	1.10373
4.32900	-14.68461	2.36229	-0.22342	-1.21722	0.99334	-0.00260	4.40116	0.21428	0.00576	1.11340
4.43066	-14.80937	2.37354	-0.21847	-1.21680	0.99574	-0.00259	4.38825	0.21517	0.00548	1.12263
4.53515	-14.93941	2.38566	-0.21376	-1.21569	0.99765	-0.00258	4.36997	0.21606	0.00522	1.13109
4.64253	-15.06782	2.39743	-0.20913	-1.21457	0.99954	-0.00258	4.35274	0.21688	0.00498	1.13891
4.75059	-15.18961	2.40842	-0.20393	-1.21474	1.00221	-0.00257	4.34445	0.21771	0.00472	1.14626
4.86145	-15.31894	2.42062	-0.19930	-1.21356	1.00397	-0.00257	4.32667	0.21851	0.00450	1.15281
4.97760	-15.44576	2.43215	-0.19444	-1.21293	1.00611	-0.00256	4.31370	0.21927	0.00427	1.15912
5.09424	-15.56615	2.44301	-0.18897	-1.21362	1.00906	-0.00255	4.30962	0.22004	0.00401	1.16513
5.21376	-15.69599	2.45536	-0.18426	-1.21257	1.01081	-0.00255	4.29340	0.22078	0.00381	1.17044
5.33618	-15.81978	2.46663	-0.17953	-1.21199	1.01284	-0.00254	4.28189	0.22144	0.00360	1.17557
5.46150	-15.93599	2.47690	-0.17382	-1.21336	1.01612	-0.00253	4.28344	0.22214	0.00335	1.18091
5.58971	-16.06316	2.48896	-0.16883	-1.21295	1.01819	-0.00253	4.27238	0.22281	0.00314	1.18582
5.72082	-16.19018	2.50082	-0.16446	-1.21169	1.01966	-0.00252	4.25699	0.22339	0.00297	1.19063
5.85823	-16.30390	2.51054	-0.15863	-1.21353	1.02317	-0.00251	4.26274	0.22402	0.00271	1.19630
5.99520	-16.42248	2.52142	-0.15307	-1.21458	1.02607	-0.00250	4.26253	0.22465	0.00247	1.20183
6.13497	-16.55230	2.53394	-0.14876	-1.21310	1.02726	-0.00249	4.24591	0.22516	0.00232	1.20699
6.28141	-16.67008	2.54425	-0.14390	-1.21334	1.02956	-0.00249	4.24220	0.22566	0.00212	1.21277
6.42674	-16.77376	2.55289	-0.13787	-1.21622	1.03349	-0.00248	4.25546	0.22624	0.00185	1.21905
6.57895	-16.89439	2.56409	-0.13246	-1.21704	1.03608	-0.00247	4.25453	0.22677	0.00164	1.22520
6.73401	-17.02602	2.57680	-0.12848	-1.21507	1.03680	-0.00246	4.23655	0.22713	0.00152	1.23091
6.89180	-17.13456	2.58581	-0.12368	-1.21599	1.03930	-0.00245	4.23864	0.22753	0.00132	1.23728
7.05716	-17.23426	2.59364	-0.11728	-1.21984	1.04373	-0.00245	4.25865	0.22810	0.00103	1.24444
7.22022	-17.34609	2.60370	-0.11193	-1.22127	1.04649	-0.00244	4.26300	0.22854	0.00082	1.25082
7.39098	-17.47739	2.61641	-0.10798	-1.21940	1.04708	-0.00243	4.24738	0.22877	0.00072	1.25650
7.56430	-17.59239	2.62629	-0.10416	-1.21856	1.04826	-0.00242	4.24015	0.22896	0.00060	1.26207
7.73994	-17.67630	2.63182	-0.09803	-1.22327	1.05295	-0.00241	4.26608	0.22951	0.00030	1.26837
7.92393	-17.77705	2.63999	-0.09211	-1.22647	1.05670	-0.00241	4.28247	0.22997	0.00005	1.27405
8.11030	-17.89258	2.65048	-0.08725	-1.22711	1.05873	-0.00240	4.28364	0.23024	-0.00012	1.27873
8.29876	-18.02544	2.66332	-0.08429	-1.22379	1.05813	-0.00238	4.26368	0.23010	-0.00014	1.28218
8.49618	-18.12744	2.67100	-0.08029	-1.22437	1.05999	-0.00237	4.26707	0.23025	-0.00029	1.28628
8.69565	-18.19858	2.67461	-0.07381	-1.23072	1.06549	-0.00237	4.30147	0.23094	-0.00063	1.29137
8.90472	-18.29524	2.68206	-0.06808	-1.23412	1.06912	-0.00236	4.31986	0.23133	-0.00087	1.29579
9.11577	-18.40180	2.69111	-0.06312	-1.23572	1.07154	-0.00235	4.32853	0.23154	-0.00105	1.29974
9.32836	-18.53601	2.70415	-0.06013	-1.23237	1.07071	-0.00234	4.31257	0.23115	-0.00106	1.30265
9.54198	-18.65270	2.71407	-0.05785	-1.22935	1.07003	-0.00232	4.30216	0.23062	-0.00105	1.30575
9.76563	-18.71133	2.71553	-0.05210	-1.23590	1.07534	-0.00232	4.33384	0.23152	-0.00139	1.31146
10.00000	-18.78149	2.71900	-0.04574	-1.24239	1.08070	-0.00232	4.36798	0.23222	-0.00172	1.31778

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Median stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 30 - 61 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.54701	3.38983	-0.04569	-1.73077	1.04762	-0.00097	1.34935	0.43960	-0.01445	0.32145
PGV	3.62963	1.75272	-0.07807	-2.61314	1.33949	-0.00147	7.05473	0.33141	-0.01450	0.46814
PGA	0.86265	1.50351	-0.06592	-2.45852	0.89852	-0.00190	3.48737	0.49778	-0.02987	0.74986
0.01000	1.54860	1.52506	-0.06042	-2.59987	0.89717	-0.00173	4.12265	0.48408	-0.00927	0.71685
0.01024	1.57718	1.52763	-0.05952	-2.60671	0.89313	-0.00171	4.13666	0.48466	-0.00939	0.71810
0.01048	1.61013	1.53023	-0.05860	-2.61439	0.88925	-0.00169	4.15457	0.48514	-0.00954	0.71942
0.01072	1.64604	1.53283	-0.05768	-2.62261	0.88546	-0.00167	4.17485	0.48554	-0.00970	0.72082
0.01097	1.68433	1.53544	-0.05676	-2.63127	0.88172	-0.00165	4.19687	0.48589	-0.00988	0.72230
0.01123	1.72546	1.53804	-0.05583	-2.64044	0.87797	-0.00163	4.22120	0.48617	-0.01007	0.72383
0.01150	1.76950	1.54065	-0.05490	-2.65012	0.87418	-0.00161	4.24792	0.48639	-0.01027	0.72534
0.01177	1.81688	1.54328	-0.05396	-2.66040	0.87038	-0.00159	4.27752	0.48654	-0.01046	0.72681
0.01205	1.86748	1.54591	-0.05302	-2.67124	0.86660	-0.00157	4.31014	0.48661	-0.01066	0.72829
0.01233	1.92219	1.54856	-0.05209	-2.68282	0.86290	-0.00154	4.34709	0.48657	-0.01088	0.72986
0.01262	1.97978	1.55121	-0.05117	-2.69491	0.85923	-0.00152	4.38698	0.48646	-0.01111	0.73151
0.01292	2.03688	1.55387	-0.05022	-2.70686	0.85549	-0.00149	4.42570	0.48638	-0.01135	0.73315
0.01322	2.09370	1.55656	-0.04923	-2.71877	0.85172	-0.00147	4.46327	0.48636	-0.01158	0.73473
0.01353	2.14951	1.55925	-0.04821	-2.73044	0.84776	-0.00145	4.49895	0.48639	-0.01181	0.73627
0.01385	2.20341	1.56187	-0.04719	-2.74160	0.84330	-0.00142	4.53189	0.48652	-0.01204	0.73787
0.01417	2.25541	1.56444	-0.04616	-2.75227	0.83839	-0.00140	4.56192	0.48675	-0.01229	0.73960
0.01451	2.30580	1.56700	-0.04511	-2.76259	0.83320	-0.00138	4.58875	0.48707	-0.01256	0.74147
0.01485	2.35533	1.56962	-0.04402	-2.77277	0.82783	-0.00135	4.61287	0.48748	-0.01283	0.74341
0.01520	2.40126	1.57230	-0.04286	-2.78230	0.82228	-0.00133	4.63110	0.48807	-0.01309	0.74531
0.01556	2.44239	1.57500	-0.04165	-2.79094	0.81652	-0.00131	4.64211	0.48886	-0.01333	0.74716
0.01592	2.48119	1.57769	-0.04041	-2.79909	0.81051	-0.00129	4.64933	0.48976	-0.01357	0.74910
0.01630	2.51815	1.58034	-0.03919	-2.80677	0.80437	-0.00127	4.65444	0.49071	-0.01383	0.75123
0.01668	2.55115	1.58292	-0.03801	-2.81357	0.79805	-0.00126	4.65528	0.49177	-0.01412	0.75359
0.01707	2.57988	1.58549	-0.03679	-2.81956	0.79146	-0.00124	4.65040	0.49298	-0.01441	0.75603
0.01748	2.60837	1.58814	-0.03549	-2.82555	0.78482	-0.00122	4.64413	0.49424	-0.01469	0.75844
0.01789	2.63852	1.59080	-0.03416	-2.83176	0.77810	-0.00121	4.63985	0.49546	-0.01496	0.76086
0.01831	2.67037	1.59344	-0.03289	-2.83809	0.77122	-0.00119	4.63816	0.49664	-0.01522	0.76322
0.01874	2.70278	1.59604	-0.03167	-2.84440	0.76419	-0.00117	4.63687	0.49781	-0.01546	0.76553
0.01918	2.73511	1.59860	-0.03048	-2.85062	0.75694	-0.00116	4.63489	0.49900	-0.01570	0.76781
0.01963	2.76238	1.60099	-0.02936	-2.85572	0.74958	-0.00114	4.62778	0.50030	-0.01594	0.77011
0.02009	2.78029	1.60309	-0.02831	-2.85876	0.74216	-0.00113	4.61236	0.50176	-0.01617	0.77238
0.02057	2.79416	1.60500	-0.02727	-2.86080	0.73452	-0.00112	4.59432	0.50327	-0.01636	0.77440
0.02105	2.80790	1.60692	-0.02617	-2.86274	0.72639	-0.00111	4.57634	0.50481	-0.01648	0.77593
0.02154	2.81604	1.60878	-0.02501	-2.86346	0.71756	-0.00110	4.55268	0.50653	-0.01657	0.77725
0.02205	2.81476	1.61050	-0.02380	-2.86219	0.70847	-0.00110	4.52030	0.50849	-0.01673	0.77898
0.02257	2.80618	1.61225	-0.02258	-2.85960	0.69966	-0.00109	4.48010	0.51066	-0.01692	0.78095
0.02310	2.79824	1.61421	-0.02137	-2.85741	0.69134	-0.00109	4.43867	0.51286	-0.01701	0.78231
0.02364	2.80512	1.61635	-0.02024	-2.85810	0.68353	-0.00108	4.41228	0.51468	-0.01702	0.78306
0.02420	2.82215	1.61839	-0.01927	-2.86032	0.67560	-0.00108	4.39838	0.51618	-0.01701	0.78379
0.02477	2.82330	1.62012	-0.01844	-2.85908	0.66651	-0.00107	4.36913	0.51812	-0.01705	0.78482
0.02535	2.81237	1.62190	-0.01760	-2.85555	0.65665	-0.00107	4.32646	0.52048	-0.01710	0.78599
0.02595	2.81397	1.62404	-0.01660	-2.85468	0.64754	-0.00107	4.29622	0.52254	-0.01711	0.78687
0.02656	2.82381	1.62627	-0.01548	-2.85544	0.63953	-0.00106	4.27579	0.52428	-0.01708	0.78744
0.02719	2.82491	1.62833	-0.01442	-2.85447	0.63182	-0.00106	4.24741	0.52620	-0.01701	0.78784
0.02783	2.81144	1.63021	-0.01357	-2.85073	0.62368	-0.00107	4.20376	0.52853	-0.01693	0.78830
0.02848	2.78635	1.63186	-0.01287	-2.84466	0.61496	-0.00107	4.14837	0.53119	-0.01690	0.78925
0.02915	2.75306	1.63323	-0.01219	-2.83674	0.60578	-0.00108	4.08588	0.53407	-0.01697	0.79085
0.02984	2.70686	1.63433	-0.01137	-2.82620	0.59656	-0.00109	4.01242	0.53728	-0.01702	0.79229
0.03054	2.64242	1.63516	-0.01030	-2.81217	0.58791	-0.00111	3.92463	0.54091	-0.01695	0.79299
0.03126	2.56372	1.63586	-0.00897	-2.79540	0.58020	-0.00113	3.82729	0.54484	-0.01683	0.79352
0.03199	2.47958	1.63667	-0.00749	-2.77761	0.57340	-0.00116	3.72751	0.54895	-0.01678	0.79464
0.03275	2.39014	1.63761	-0.00600	-2.75895	0.56700	-0.00120	3.62381	0.55328	-0.01677	0.79621
0.03352	2.28391	1.63843	-0.00464	-2.73718	0.56029	-0.00124	3.50625	0.55819	-0.01672	0.79770
0.03430	2.16096	1.63904	-0.00343	-2.71205	0.55310	-0.00128	3.37725	0.56364	-0.01663	0.79911
0.03511	2.04755	1.63978	-0.00234	-2.68855	0.54576	-0.00132	3.26072	0.56886	-0.01653	0.80042
0.03594	1.96273	1.64084	-0.00137	-2.67050	0.53844	-0.00135	3.17129	0.57323	-0.01634	0.80111
0.03678	1.90102	1.64182	-0.00060	-2.65689	0.53118	-0.00138	3.10254	0.57681	-0.01606	0.80104
0.03765	1.84446	1.64213	-0.00002	-2.64411	0.52492	-0.00140	3.03983	0.57998	-0.01577	0.80076
0.03854	1.77975	1.64173	0.00047	-2.62947	0.52081	-0.00142	2.97406	0.58308	-0.01550	0.80068
0.03944	1.71022	1.64122	0.00101	-2.61358	0.51856	-0.00146	2.90937	0.58616	-0.01526	0.80079
0.04037	1.65351	1.64129	0.00164	-2.59977	0.51671	-0.00150	2.85986	0.58883	-0.01497	0.80073
0.04132	1.61552	1.64200	0.00224	-2.58897	0.51352	-0.00154	2.82847	0.59105	-0.01464	0.80026
0.04229	1.57897	1.64273	0.00269	-2.57793	0.50749	-0.00157	2.79722	0.59347	-0.01431	0.79959
0.04329	1.51609	1.64288	0.00308	-2.56191	0.49899	-0.00160	2.73976	0.59706	-0.01406	0.79934
0.04431	1.41565	1.64216	0.00360	-2.53919	0.48998	-0.00163	2.64810	0.60207	-0.01385	0.79932
0.04535	1.28791	1.64052	0.00429	-2.51139	0.48129	-0.00166	2.53604	0.60797	-0.01367	0.79937

0.04642	1.14077	1.63800	0.00515	-2.47936	0.47225	-0.00170	2.41489	0.61444	-0.01354	0.79964
0.04751	0.98143	1.63509	0.00607	-2.44440	0.46302	-0.00175	2.29222	0.62131	-0.01338	0.79962
0.04863	0.82678	1.63259	0.00698	-2.41029	0.45499	-0.00180	2.17995	0.62800	-0.01306	0.79840
0.04977	0.68429	1.63118	0.00798	-2.37919	0.44904	-0.00186	2.08104	0.63432	-0.01245	0.79522
0.05094	0.54990	1.63082	0.00913	-2.35059	0.44517	-0.00192	1.99049	0.64047	-0.01159	0.79049
0.05214	0.42424	1.63106	0.01042	-2.32425	0.44345	-0.00198	1.90833	0.64630	-0.01072	0.78579
0.05337	0.30713	1.63144	0.01172	-2.29991	0.44342	-0.00204	1.83318	0.65180	-0.00996	0.78193
0.05462	0.19557	1.63153	0.01269	-2.27688	0.44351	-0.00210	1.76030	0.65721	-0.00925	0.77850
0.05591	0.09712	1.63103	0.01302	-2.25635	0.44317	-0.00214	1.69336	0.66219	-0.00853	0.77500
0.05722	0.02798	1.63023	0.01280	-2.24144	0.44428	-0.00217	1.64405	0.66579	-0.00773	0.77112
0.05857	-0.00887	1.62971	0.01241	-2.23296	0.44790	-0.00220	1.61606	0.66768	-0.00684	0.76676
0.05995	-0.03609	1.62931	0.01218	-2.22621	0.45273	-0.00223	1.59696	0.66888	-0.00598	0.76274
0.06136	-0.08624	1.62778	0.01227	-2.21370	0.45679	-0.00227	1.56781	0.67084	-0.00537	0.76037
0.06280	-0.18107	1.62391	0.01267	-2.19032	0.45831	-0.00232	1.51476	0.67470	-0.00512	0.76035
0.06428	-0.31930	1.61746	0.01320	-2.15633	0.45601	-0.00238	1.43721	0.68070	-0.00517	0.76233
0.06579	-0.47646	1.60947	0.01355	-2.11751	0.45012	-0.00244	1.34886	0.68799	-0.00536	0.76514
0.06734	-0.62217	1.60142	0.01345	-2.08115	0.44356	-0.00248	1.26736	0.69507	-0.00551	0.76751
0.06893	-0.74032	1.59407	0.01278	-2.05099	0.44058	-0.00252	1.20274	0.70071	-0.00543	0.76848
0.07055	-0.82599	1.58789	0.01155	-2.02806	0.44358	-0.00257	1.15889	0.70428	-0.00498	0.76703
0.07221	-0.87871	1.58351	0.00988	-2.01264	0.45200	-0.00262	1.13629	0.70568	-0.00408	0.76262
0.07391	-0.90183	1.58125	0.00802	-2.00433	0.46393	-0.00267	1.13213	0.70525	-0.00289	0.75607
0.07565	-0.90243	1.58077	0.00621	-2.00166	0.47694	-0.00272	1.14094	0.70364	-0.00172	0.74923
0.07743	-0.89194	1.58103	0.00463	-2.00177	0.48866	-0.00276	1.15493	0.70164	-0.00089	0.74423
0.07925	-0.88889	1.58020	0.00326	-1.99968	0.49699	-0.00278	1.16279	0.70027	-0.00057	0.74218
0.08111	-0.91455	1.57634	0.00198	-1.98965	0.50016	-0.00281	1.15207	0.70069	-0.00069	0.74279
0.08302	-0.97876	1.56861	0.00063	-1.96908	0.49775	-0.00283	1.11741	0.70343	-0.00106	0.74510
0.08498	-1.07122	1.55778	-0.00087	-1.94066	0.49176	-0.00285	1.06588	0.70789	-0.00146	0.74783
0.08697	-1.16963	1.54574	-0.00254	-1.91033	0.48612	-0.00287	1.01210	0.71261	-0.00167	0.74980
0.08902	-1.25736	1.53448	-0.00429	-1.88300	0.48409	-0.00289	0.96694	0.71636	-0.00154	0.75006
0.09112	-1.32992	1.52529	-0.00609	-1.86071	0.48660	-0.00292	0.93298	0.71883	-0.00096	0.74799
0.09326	-1.38887	1.51830	-0.00804	-1.84320	0.49224	-0.00296	0.90797	0.72032	-0.00001	0.74394
0.09545	-1.43828	1.51279	-0.01024	-1.82897	0.49862	-0.00298	0.88818	0.72131	0.00112	0.73921
0.09770	-1.48543	1.50772	-0.01267	-1.81552	0.50436	-0.00301	0.86930	0.72235	0.00216	0.73538
0.10000	-1.53730	1.50210	-0.01526	-1.80041	0.50894	-0.00302	0.84788	0.72386	0.00289	0.73372
0.10235	-1.59621	1.49590	-0.01788	-1.78317	0.51205	-0.00304	0.82297	0.72602	0.00321	0.73465
0.10476	-1.65799	1.49010	-0.02045	-1.76559	0.51426	-0.00306	0.79710	0.72857	0.00318	0.73767
0.10723	-1.71861	1.48585	-0.02289	-1.74963	0.51612	-0.00308	0.77286	0.73126	0.00299	0.74144
0.10975	-1.77805	1.48371	-0.02511	-1.73588	0.51717	-0.00309	0.75058	0.73410	0.00280	0.74484
0.11233	-1.83932	1.48322	-0.02703	-1.72342	0.51679	-0.00310	0.72853	0.73731	0.00272	0.74721
0.11498	-1.90158	1.48315	-0.02869	-1.71133	0.51545	-0.00311	0.70657	0.74070	0.00283	0.74803
0.11768	-1.95822	1.48218	-0.03029	-1.69949	0.51467	-0.00312	0.68724	0.74354	0.00311	0.74748
0.12045	-1.99930	1.47963	-0.03211	-1.68894	0.51627	-0.00314	0.67477	0.74484	0.00349	0.74621
0.12328	-2.01858	1.47547	-0.03448	-1.68084	0.52130	-0.00315	0.67142	0.74405	0.00396	0.74438
0.12619	-2.01806	1.46956	-0.03757	-1.67484	0.52938	-0.00317	0.67553	0.74140	0.00453	0.74198
0.12916	-2.00598	1.46176	-0.04141	-1.66955	0.53908	-0.00318	0.68287	0.73766	0.00519	0.73888
0.13219	-1.99147	1.45266	-0.04579	-1.66393	0.54925	-0.00319	0.68985	0.73360	0.00595	0.73486
0.13531	-1.98230	1.44335	-0.05037	-1.65746	0.55962	-0.00320	0.69463	0.72976	0.00674	0.73026
0.13849	-1.98514	1.43452	-0.05485	-1.64935	0.56940	-0.00321	0.69531	0.72664	0.00737	0.72627
0.14175	-2.00456	1.42606	-0.05908	-1.63850	0.57683	-0.00322	0.68960	0.72476	0.00767	0.72407
0.14508	-2.04413	1.41756	-0.06302	-1.62377	0.58084	-0.00322	0.67542	0.72451	0.00771	0.72354
0.14850	-2.10363	1.40917	-0.06662	-1.60539	0.58216	-0.00323	0.65293	0.72597	0.00767	0.72351
0.15199	-2.17418	1.40125	-0.06995	-1.58545	0.58245	-0.00323	0.62654	0.72841	0.00772	0.72312
0.15557	-2.24086	1.39391	-0.07316	-1.56688	0.58326	-0.00323	0.60298	0.73049	0.00778	0.72278
0.15923	-2.29258	1.38697	-0.07645	-1.55154	0.58542	-0.00323	0.58687	0.73114	0.00778	0.72302
0.16298	-2.32593	1.38031	-0.07990	-1.53987	0.58862	-0.00322	0.57932	0.73003	0.00768	0.72407
0.16681	-2.34360	1.37400	-0.08352	-1.53141	0.59184	-0.00320	0.57910	0.72740	0.00745	0.72601
0.17074	-2.34813	1.36876	-0.08721	-1.52643	0.59504	-0.00318	0.58554	0.72354	0.00716	0.72853
0.17475	-2.34521	1.36557	-0.09084	-1.52495	0.59899	-0.00316	0.59679	0.71902	0.00694	0.73064
0.17887	-2.33873	1.36495	-0.09442	-1.52689	0.60429	-0.00314	0.61148	0.71423	0.00691	0.73155
0.18307	-2.33157	1.36661	-0.09803	-1.53148	0.61020	-0.00312	0.62798	0.70945	0.00709	0.73102
0.18738	-2.32543	1.36962	-0.10177	-1.53760	0.61575	-0.00310	0.64490	0.70479	0.00742	0.72938
0.19179	-2.32210	1.37285	-0.10574	-1.54380	0.62044	-0.00308	0.66076	0.70029	0.00781	0.72737
0.19631	-2.32682	1.37554	-0.10995	-1.54830	0.62391	-0.00306	0.67251	0.69636	0.00825	0.72500
0.20092	-2.33930	1.37768	-0.11438	-1.55119	0.62675	-0.00304	0.68044	0.69290	0.00885	0.72161
0.20565	-2.35747	1.37957	-0.11903	-1.55314	0.63009	-0.00303	0.68618	0.68962	0.00968	0.71675
0.21049	-2.38143	1.38132	-0.12391	-1.55414	0.63471	-0.00302	0.69031	0.68645	0.01079	0.71014
0.21544	-2.41095	1.38294	-0.12896	-1.55414	0.64085	-0.00301	0.69308	0.68337	0.01214	0.70200
0.22051	-2.44663	1.38429	-0.13404	-1.55283	0.64769	-0.00300	0.69383	0.68053	0.01361	0.69305
0.22570	-2.48937	1.38502	-0.13903	-1.54966	0.65386	-0.00300	0.69151	0.67811	0.01499	0.68443
0.23101	-2.53711	1.38493	-0.14386	-1.54472	0.65868	-0.00299	0.68699	0.67595	0.01613	0.67728
0.23645	-2.58458	1.38418	-0.14857	-1.53906	0.66266	-0.00298	0.68335	0.67355	0.01693	0.67234
0.24201	-2.62822	1.38308	-0.15327	-1.53347	0.66654	-0.00297	0.68284	0.67057	0.01737	0.67000
0.24771	-2.66661	1.38202	-0.15795	-1.52849	0.67105	-0.00296	0.68655	0.66692	0.01745	0.67025
0.25354	-2.70186	1.38123	-0.16255	-1.52389	0.67624	-0.00295	0.69326	0.66292	0.01722	0.67264
0.25950	-2.73628	1.38069	-0.16702	-1.51925	0.68135	-0.00295	0.70122	0.65890	0.01674	0.67670
0.26561	-2.76758	1.38027	-0.17141	-1.51498	0.68574	-0.00294	0.71114	0.65472	0.01603	0.68227
0.27186	-2.79394	1.37978	-0.17578	-1.51131	0.68885	-0.00293	0.72398	0.65021	0.01512	0.68910
0.27826	-2.81352	1.37912	-0.18016	-1.50853	0.69068	-0.00291	0.74113	0.64511	0.01401	0.69704
0.28480	-2.82366	1.37842	-0.18454	-1.50734	0.69187	-0.00288	0.76441	0.63921	0.01275	0.70581
0.29150	-2.82231	1.37797	-0.18894	-1.50844	0.69307	-0.00285	0.79590	0.63230	0.01144	0.71464
0.29836	-2.81076	1.37790	-0.19339	-1.51171	0.69456	-0.00281	0.83562	0.62458	0.01026	0.72237

0.30539	-2.79130	1.37820	-0.19788	-1.51666	0.69631	-0.00276	0.88280	0.61629	0.00932	0.72843
0.31257	-2.76594	1.37854	-0.20238	-1.52255	0.69811	-0.00271	0.93614	0.60769	0.00859	0.73318
0.31993	-2.73532	1.37869	-0.20692	-1.52898	0.69976	-0.00267	0.99545	0.59887	0.00796	0.73737
0.32745	-2.70280	1.37860	-0.21141	-1.53526	0.70091	-0.00261	1.05840	0.59015	0.00740	0.74134
0.33517	-2.66922	1.37833	-0.21577	-1.54137	0.70175	-0.00256	1.12399	0.58170	0.00683	0.74554
0.34304	-2.63828	1.37803	-0.21989	-1.54679	0.70243	-0.00251	1.18903	0.57383	0.00625	0.74997
0.35112	-2.61108	1.37795	-0.22370	-1.55167	0.70331	-0.00245	1.25221	0.56663	0.00568	0.75439
0.35938	-2.58578	1.37832	-0.22722	-1.55668	0.70479	-0.00240	1.31389	0.56004	0.00519	0.75850
0.36784	-2.56485	1.37939	-0.23049	-1.56158	0.70667	-0.00236	1.37208	0.55421	0.00485	0.76174
0.37649	-2.55151	1.38129	-0.23356	-1.56593	0.70887	-0.00232	1.42383	0.54928	0.00475	0.76351
0.38536	-2.55303	1.38388	-0.23647	-1.56816	0.71075	-0.00228	1.46168	0.54579	0.00495	0.76339
0.39442	-2.57414	1.38704	-0.23922	-1.56725	0.71190	-0.00226	1.48135	0.54388	0.00547	0.76121
0.40370	-2.61092	1.39090	-0.24192	-1.56410	0.71264	-0.00225	1.48716	0.54311	0.00631	0.75709
0.41321	-2.65646	1.39568	-0.24461	-1.56041	0.71373	-0.00224	1.48550	0.54302	0.00737	0.75171
0.42292	-2.70706	1.40144	-0.24729	-1.55702	0.71559	-0.00225	1.48045	0.54326	0.00855	0.74584
0.43288	-2.76045	1.40794	-0.25000	-1.55418	0.71911	-0.00226	1.47586	0.54337	0.00983	0.73964
0.44307	-2.82119	1.41470	-0.25279	-1.55060	0.72429	-0.00228	1.46721	0.54356	0.01115	0.73350
0.45349	-2.89413	1.42145	-0.25570	-1.54517	0.73034	-0.00231	1.44940	0.54420	0.01240	0.72823
0.46417	-2.98119	1.42822	-0.25874	-1.53762	0.73684	-0.00235	1.42186	0.54533	0.01350	0.72417
0.47508	-3.08306	1.43498	-0.26188	-1.52782	0.74349	-0.00240	1.38526	0.54685	0.01445	0.72135
0.48626	-3.19905	1.44155	-0.26516	-1.51577	0.74899	-0.00244	1.33988	0.54883	0.01523	0.71982
0.49771	-3.32402	1.44772	-0.26862	-1.50237	0.75287	-0.00249	1.29006	0.55093	0.01583	0.71962
0.50942	-3.45593	1.45336	-0.27227	-1.48789	0.75461	-0.00253	1.23826	0.55289	0.01623	0.72084
0.52140	-3.59484	1.45867	-0.27605	-1.47247	0.75356	-0.00256	1.18531	0.55468	0.01646	0.72333
0.53367	-3.73939	1.46378	-0.27997	-1.45652	0.75024	-0.00259	1.13266	0.55622	0.01657	0.72662
0.54624	-3.88743	1.46852	-0.28416	-1.44018	0.74535	-0.00260	1.08175	0.55737	0.01664	0.73020
0.55910	-4.03527	1.47291	-0.28864	-1.42421	0.73917	-0.00261	1.03594	0.55770	0.01673	0.73367
0.57225	-4.18335	1.47724	-0.29325	-1.40885	0.73171	-0.00262	0.99562	0.55712	0.01687	0.73665
0.58569	-4.32751	1.48199	-0.29786	-1.39534	0.72426	-0.00261	0.96409	0.55527	0.01708	0.73900
0.59948	-4.46611	1.48717	-0.30252	-1.38405	0.71709	-0.00260	0.94156	0.55214	0.01734	0.74081
0.61357	-4.59859	1.49253	-0.30719	-1.37467	0.71075	-0.00259	0.92671	0.54791	0.01767	0.74216
0.62802	-4.72441	1.49798	-0.31191	-1.36724	0.70514	-0.00257	0.92045	0.54240	0.01804	0.74318
0.64280	-4.84692	1.50357	-0.31652	-1.36090	0.69957	-0.00255	0.92102	0.53579	0.01845	0.74382
0.65794	-4.97049	1.50922	-0.32097	-1.35454	0.69311	-0.00252	0.92573	0.52845	0.01888	0.74413
0.67340	-5.09576	1.51488	-0.32528	-1.34777	0.68661	-0.00249	0.93317	0.52066	0.01934	0.74399
0.68927	-5.22136	1.52034	-0.32955	-1.34064	0.68077	-0.00248	0.94431	0.51231	0.01987	0.74336
0.70547	-5.34374	1.52544	-0.33375	-1.33363	0.67594	-0.00246	0.96131	0.50320	0.02047	0.74201
0.72207	-5.46259	1.53039	-0.33785	-1.32714	0.67187	-0.00245	0.98620	0.49307	0.02115	0.73973
0.73910	-5.57536	1.53561	-0.34180	-1.32216	0.66878	-0.00244	1.02257	0.48167	0.02192	0.73617
0.75649	-5.67926	1.54110	-0.34563	-1.31933	0.66631	-0.00243	1.07311	0.46891	0.02278	0.73118
0.77429	-5.77550	1.54683	-0.34927	-1.31834	0.66539	-0.00241	1.13785	0.45508	0.02373	0.72445
0.79246	-5.86105	1.55250	-0.35271	-1.31954	0.66632	-0.00239	1.21961	0.44020	0.02477	0.71597
0.81116	-5.93495	1.55808	-0.35596	-1.32326	0.66957	-0.00237	1.32316	0.42412	0.02588	0.70601
0.83022	-5.99866	1.56366	-0.35889	-1.32909	0.67520	-0.00235	1.44876	0.40729	0.02699	0.69523
0.84976	-6.05586	1.56948	-0.36146	-1.33656	0.68286	-0.00234	1.59745	0.38990	0.02806	0.68428
0.86972	-6.10969	1.57571	-0.36363	-1.34506	0.69206	-0.00232	1.76729	0.37244	0.02905	0.67366
0.89023	-6.16362	1.58237	-0.36542	-1.35397	0.70230	-0.00231	1.95614	0.35519	0.02999	0.66361
0.91116	-6.21902	1.58921	-0.36691	-1.36260	0.71297	-0.00230	2.15816	0.33864	0.03091	0.65447
0.93257	-6.27620	1.59597	-0.36819	-1.37067	0.72400	-0.00229	2.37091	0.32287	0.03182	0.64622
0.95456	-6.33414	1.60255	-0.36934	-1.37834	0.73537	-0.00228	2.59513	0.30779	0.03270	0.63911
0.97704	-6.39220	1.60900	-0.37031	-1.38573	0.74704	-0.00227	2.83025	0.29343	0.03347	0.63347
1.00000	-6.45257	1.61559	-0.37106	-1.39266	0.75867	-0.00227	3.07267	0.27990	0.03409	0.62948
1.02354	-6.51743	1.62262	-0.37153	-1.39902	0.77000	-0.00226	3.31958	0.26722	0.03454	0.62710
1.04767	-6.58829	1.63026	-0.37173	-1.40461	0.78071	-0.00226	3.56644	0.25547	0.03484	0.62622
1.07227	-6.66514	1.63841	-0.37168	-1.40930	0.79063	-0.00225	3.80788	0.24474	0.03499	0.62661
1.09745	-6.74800	1.64692	-0.37145	-1.41294	0.79966	-0.00225	4.04062	0.23497	0.03503	0.62804
1.12334	-6.83575	1.65557	-0.37112	-1.41564	0.80801	-0.00225	4.26400	0.22606	0.03499	0.63035
1.14982	-6.92683	1.66412	-0.37072	-1.41744	0.81571	-0.00225	4.47580	0.21799	0.03488	0.63335
1.17675	-7.02012	1.67249	-0.37027	-1.41845	0.82282	-0.00225	4.67435	0.21071	0.03473	0.63683
1.20453	-7.11724	1.68091	-0.36977	-1.41873	0.82946	-0.00225	4.86175	0.20407	0.03453	0.64065
1.23289	-7.21829	1.68951	-0.36916	-1.41827	0.83544	-0.00225	5.03436	0.19812	0.03430	0.64456
1.26183	-7.32485	1.69848	-0.36842	-1.41692	0.84053	-0.00225	5.18924	0.19284	0.03404	0.64846
1.29149	-7.43803	1.70800	-0.36751	-1.41468	0.84473	-0.00225	5.32624	0.18817	0.03374	0.65240
1.32188	-7.55746	1.71808	-0.36643	-1.41165	0.84810	-0.00225	5.44592	0.18405	0.03341	0.65645
1.35300	-7.68224	1.72863	-0.36521	-1.40792	0.85074	-0.00225	5.54930	0.18042	0.03306	0.66064
1.38485	-7.81112	1.73949	-0.36389	-1.40358	0.85273	-0.00225	5.63723	0.17723	0.03270	0.66509
1.41743	-7.94265	1.75044	-0.36251	-1.39875	0.85423	-0.00225	5.71091	0.17446	0.03233	0.66991
1.45075	-8.07536	1.76133	-0.36109	-1.39357	0.85538	-0.00225	5.77211	0.17204	0.03197	0.67514
1.48500	-8.20927	1.77213	-0.35966	-1.38809	0.85629	-0.00225	5.82210	0.16994	0.03161	0.68079
1.51999	-8.34315	1.78277	-0.35822	-1.38243	0.85702	-0.00225	5.86138	0.16816	0.03127	0.68683
1.55569	-8.47697	1.79331	-0.35676	-1.37666	0.85761	-0.00225	5.89089	0.16667	0.03092	0.69325
1.59236	-8.61211	1.80396	-0.35523	-1.37077	0.85806	-0.00225	5.91117	0.16544	0.03057	0.70008
1.62973	-8.74808	1.81477	-0.35362	-1.36483	0.85837	-0.00225	5.92273	0.16449	0.03021	0.70727
1.66806	-8.88607	1.82594	-0.35190	-1.35886	0.85855	-0.00225	5.92654	0.16377	0.02983	0.71488
1.70736	-9.02631	1.83753	-0.35004	-1.35289	0.85860	-0.00225	5.92311	0.16328	0.02942	0.72290
1.74764	-9.16873	1.84956	-0.34805	-1.34694	0.85853	-0.00225	5.91321	0.16301	0.02897	0.73135
1.78859	-9.31185	1.86190	-0.34594	-1.34109	0.85837	-0.00225	5.89778	0.16293	0.02851	0.74014
1.83083	-9.45718	1.87465	-0.34370	-1.33531	0.85819	-0.00225	5.87773	0.16303	0.02802	0.74939
1.87371	-9.60165	1.88750	-0.34138	-1.32975	0.85805	-0.00225	5.85455	0.16328	0.02751	0.75892
1.91791	-9.74674	1.90054	-0.33898	-1.32437	0.85803	-0.00225	5.82883	0.16367	0.02700	0.76878
1.96309	-9.89058	1.91355	-0.33653	-1.31924	0.85816	-0.00225	5.80147	0.16419	0.02648	0.77877

2.00924	-10.03265	1.92645	-0.33404	-1.31439	0.85850	-0.00225	5.77282	0.16483	0.02598	0.78874
2.05634	-10.17262	1.93917	-0.33153	-1.30983	0.85905	-0.00225	5.74308	0.16559	0.02549	0.79852
2.10482	-10.31163	1.95181	-0.32898	-1.30550	0.85981	-0.00225	5.71206	0.16647	0.02500	0.80804
2.15424	-10.44866	1.96426	-0.32641	-1.30140	0.86075	-0.00225	5.67959	0.16745	0.02453	0.81703
2.20507	-10.58529	1.97668	-0.32378	-1.29748	0.86184	-0.00225	5.64501	0.16856	0.02407	0.82547
2.25683	-10.72060	1.98901	-0.32110	-1.29372	0.86303	-0.00225	5.60858	0.16978	0.02361	0.83334
2.31000	-10.85625	2.00140	-0.31833	-1.29008	0.86429	-0.00225	5.56993	0.17110	0.02314	0.84083
2.36463	-10.99264	2.01393	-0.31546	-1.28652	0.86558	-0.00225	5.52899	0.17252	0.02266	0.84806
2.42014	-11.12868	2.02652	-0.31251	-1.28305	0.86688	-0.00225	5.48636	0.17402	0.02217	0.85509
2.47709	-11.26587	2.03929	-0.30944	-1.27963	0.86816	-0.00225	5.44190	0.17559	0.02166	0.86214
2.53550	-11.40436	2.05228	-0.30625	-1.27624	0.86940	-0.00225	5.39574	0.17722	0.02113	0.86938
2.59471	-11.54267	2.06535	-0.30298	-1.27289	0.87058	-0.00225	5.34863	0.17887	0.02058	0.87687
2.65604	-11.68340	2.07873	-0.29954	-1.26958	0.87177	-0.00225	5.30042	0.18058	0.02001	0.88481
2.71887	-11.82498	2.09228	-0.29601	-1.26631	0.87294	-0.00225	5.25163	0.18232	0.01942	0.89317
2.78242	-11.96545	2.10580	-0.29241	-1.26316	0.87410	-0.00225	5.20327	0.18407	0.01883	0.90189
2.84819	-12.10747	2.11950	-0.28867	-1.26009	0.87531	-0.00225	5.15503	0.18583	0.01822	0.91123
2.91545	-12.24965	2.13329	-0.28488	-1.25707	0.87653	-0.00224	5.10699	0.18760	0.01762	0.92112
2.98329	-12.38906	2.14678	-0.28102	-1.25427	0.87783	-0.00224	5.06116	0.18933	0.01702	0.93132
3.05344	-12.52971	2.16042	-0.27712	-1.25147	0.87917	-0.00224	5.01528	0.19107	0.01643	0.94181
3.12598	-12.67076	2.17404	-0.27307	-1.24885	0.88065	-0.00224	4.97063	0.19282	0.01585	0.95240
3.19898	-12.80865	2.18734	-0.26909	-1.24632	0.88215	-0.00224	4.92764	0.19451	0.01531	0.96249
3.27439	-12.94673	2.20059	-0.26498	-1.24396	0.88380	-0.00223	4.88589	0.19621	0.01478	0.97209
3.35121	-13.08300	2.21361	-0.26090	-1.24168	0.88550	-0.00223	4.84551	0.19786	0.01428	0.98090
3.43053	-13.21928	2.22657	-0.25669	-1.23958	0.88735	-0.00223	4.80650	0.19952	0.01380	0.98929
3.51124	-13.35367	2.23929	-0.25254	-1.23752	0.88923	-0.00223	4.76867	0.20112	0.01335	0.99737
3.59324	-13.48554	2.25166	-0.24828	-1.23574	0.89125	-0.00222	4.73339	0.20270	0.01291	1.00552
3.67782	-13.61829	2.26414	-0.24410	-1.23383	0.89325	-0.00222	4.69769	0.20425	0.01248	1.01415
3.76506	-13.74938	2.27623	-0.23965	-1.23234	0.89549	-0.00222	4.66542	0.20578	0.01205	1.02374
3.85356	-13.88092	2.28857	-0.23543	-1.23057	0.89757	-0.00222	4.63155	0.20727	0.01164	1.03396
3.94477	-14.00933	2.30023	-0.23089	-1.22932	0.89991	-0.00221	4.60254	0.20871	0.01122	1.04490
4.03714	-14.13903	2.31233	-0.22654	-1.22781	0.90210	-0.00221	4.57148	0.21014	0.01083	1.05597
4.13223	-14.26637	2.32390	-0.22207	-1.22655	0.90438	-0.00221	4.54366	0.21150	0.01045	1.06714
4.23012	-14.39415	2.33553	-0.21737	-1.22554	0.90680	-0.00221	4.51741	0.21287	0.01007	1.07809
4.32900	-14.52262	2.34749	-0.21305	-1.22407	0.90892	-0.00220	4.48876	0.21417	0.00973	1.08815
4.43066	-14.64568	2.35833	-0.20820	-1.22342	0.91141	-0.00220	4.46734	0.21540	0.00938	1.09769
4.53515	-14.77433	2.37028	-0.20356	-1.22231	0.91366	-0.00219	4.44166	0.21667	0.00906	1.10651
4.64253	-14.90141	2.38186	-0.19901	-1.22117	0.91586	-0.00219	4.41746	0.21785	0.00875	1.11467
4.75059	-15.02166	2.39236	-0.19395	-1.22092	0.91838	-0.00219	4.40030	0.21898	0.00844	1.12227
4.86145	-15.14994	2.40444	-0.18938	-1.21977	0.92046	-0.00218	4.37594	0.22013	0.00815	1.12917
4.97760	-15.27558	2.41570	-0.18462	-1.21895	0.92268	-0.00218	4.35581	0.22119	0.00787	1.13577
5.09424	-15.39463	2.42596	-0.17932	-1.21904	0.92523	-0.00217	4.34239	0.22222	0.00756	1.14199
5.21376	-15.52368	2.43822	-0.17468	-1.21798	0.92723	-0.00217	4.31995	0.22328	0.00730	1.14764
5.33618	-15.64657	2.44925	-0.17004	-1.21721	0.92929	-0.00216	4.30194	0.22421	0.00704	1.15306
5.46150	-15.76155	2.45878	-0.16455	-1.21773	0.93189	-0.00215	4.29349	0.22512	0.00674	1.15857
5.58971	-15.88807	2.47064	-0.15966	-1.21711	0.93395	-0.00215	4.27554	0.22608	0.00648	1.16380
5.72082	-16.01460	2.48250	-0.15533	-1.21592	0.93569	-0.00214	4.25536	0.22694	0.00625	1.16895
5.85823	-16.12717	2.49137	-0.14975	-1.21674	0.93831	-0.00214	4.25075	0.22773	0.00595	1.17480
5.99520	-16.24499	2.50168	-0.14438	-1.21709	0.94067	-0.00213	4.24152	0.22857	0.00567	1.18058
6.13497	-16.37457	2.51436	-0.14008	-1.21582	0.94226	-0.00212	4.22089	0.22939	0.00545	1.18613
6.28141	-16.49166	2.52429	-0.13536	-1.21563	0.94429	-0.00211	4.21048	0.23008	0.00521	1.19218
6.42674	-16.59430	2.53187	-0.12964	-1.21716	0.94699	-0.00211	4.21220	0.23075	0.00491	1.19861
6.57895	-16.71440	2.54264	-0.12440	-1.21741	0.94919	-0.00210	4.20323	0.23150	0.00464	1.20506
6.73401	-16.84590	2.55571	-0.12038	-1.21592	0.95056	-0.00209	4.18280	0.23220	0.00445	1.21121
6.89180	-16.95368	2.56422	-0.11576	-1.21622	0.95260	-0.00208	4.17785	0.23275	0.00421	1.21782
7.05716	-17.05228	2.57074	-0.10976	-1.21840	0.95551	-0.00208	4.18508	0.23334	0.00390	1.22510
7.22022	-17.16348	2.58026	-0.10461	-1.21911	0.95773	-0.00207	4.18124	0.23394	0.00365	1.23175
7.39098	-17.29453	2.59338	-0.10061	-1.21781	0.95910	-0.00206	4.16350	0.23454	0.00347	1.23788
7.56430	-17.40893	2.60332	-0.09684	-1.21710	0.96059	-0.00205	4.15295	0.23498	0.00329	1.24379
7.73994	-17.49166	2.60732	-0.09118	-1.21984	0.96350	-0.00205	4.16602	0.23543	0.00299	1.25012
7.92393	-17.59147	2.61446	-0.08561	-1.22170	0.96614	-0.00204	4.17168	0.23594	0.00271	1.25595
8.11030	-17.70631	2.62470	-0.08089	-1.22206	0.96813	-0.00203	4.16680	0.23643	0.00250	1.26094
8.29876	-17.83861	2.63845	-0.07776	-1.22003	0.96903	-0.00202	4.14759	0.23681	0.00239	1.26487
8.49618	-17.93978	2.64581	-0.07391	-1.22027	0.97075	-0.00201	4.14555	0.23712	0.00221	1.26919
8.69565	-18.00969	2.64746	-0.06804	-1.22404	0.97398	-0.00201	4.16584	0.23754	0.00189	1.27419
8.90472	-18.10548	2.65387	-0.06270	-1.22607	0.97657	-0.00200	4.17370	0.23796	0.00162	1.27874
9.11577	-18.21107	2.66244	-0.05795	-1.22711	0.97874	-0.00199	4.17529	0.23833	0.00141	1.28292
9.32836	-18.34379	2.67649	-0.05479	-1.22536	0.97972	-0.00198	4.16032	0.23856	0.00132	1.28633
9.54198	-18.45910	2.68721	-0.05238	-1.22366	0.98049	-0.00197	4.14949	0.23859	0.00125	1.28985
9.76563	-18.51689	2.68664	-0.04726	-1.22748	0.98346	-0.00196	4.16947	0.23902	0.00095	1.29539
10.00000	-18.58628	2.68818	-0.04153	-1.23134	0.98665	-0.00196	4.18987	0.23942	0.00063	1.30166

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Median stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 61 - 152 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.43337	3.38971	-0.04649	-1.75526	1.06933	-0.00098	1.47890	0.42758	-0.01597	0.32745
PGV	4.50156	1.82824	-0.13085	-2.83856	1.47100	-0.00137	9.05125	0.30806	-0.01276	0.43911
PGA	3.44269	1.61649	-0.07716	-3.07355	1.15860	-0.00151	7.03666	0.42430	-0.03299	0.76273
0.01000	4.34756	1.63646	-0.07498	-3.25167	1.16502	-0.00129	8.20766	0.41090	-0.01695	0.73843
0.01024	4.35102	1.63898	-0.07410	-3.25348	1.15894	-0.00128	8.18492	0.41216	-0.01706	0.73936
0.01048	4.36054	1.64149	-0.07322	-3.25641	1.15313	-0.00126	8.17007	0.41329	-0.01718	0.74035
0.01072	4.37416	1.64399	-0.07234	-3.26008	1.14750	-0.00125	8.16029	0.41434	-0.01732	0.74137
0.01097	4.39213	1.64647	-0.07147	-3.26453	1.14201	-0.00123	8.15591	0.41530	-0.01747	0.74243
0.01123	4.41497	1.64895	-0.07060	-3.26985	1.13664	-0.00122	8.15778	0.41617	-0.01764	0.74355
0.01150	4.44292	1.65142	-0.06975	-3.27609	1.13141	-0.00120	8.16635	0.41694	-0.01781	0.74471
0.01177	4.47715	1.65392	-0.06890	-3.28348	1.12637	-0.00118	8.18325	0.41758	-0.01800	0.74590
0.01205	4.51698	1.65644	-0.06805	-3.29190	1.12147	-0.00116	8.20727	0.41813	-0.01820	0.74711
0.01233	4.55838	1.65898	-0.06720	-3.30061	1.11659	-0.00114	8.23217	0.41866	-0.01839	0.74829
0.01262	4.59670	1.66148	-0.06633	-3.30872	1.11162	-0.00112	8.25101	0.41927	-0.01858	0.74941
0.01292	4.63345	1.66396	-0.06542	-3.31653	1.10666	-0.00110	8.26629	0.41992	-0.01877	0.75048
0.01322	4.67402	1.66646	-0.06450	-3.32504	1.10181	-0.00108	8.28612	0.42051	-0.01895	0.75154
0.01353	4.72027	1.66901	-0.06356	-3.33460	1.09704	-0.00106	8.31308	0.42101	-0.01914	0.75262
0.01385	4.77092	1.67161	-0.06261	-3.34494	1.09228	-0.00104	8.34512	0.42146	-0.01935	0.75379
0.01417	4.82493	1.67424	-0.06165	-3.35587	1.08748	-0.00102	8.38083	0.42186	-0.01959	0.75520
0.01451	4.88293	1.67690	-0.06069	-3.36751	1.08266	-0.00100	8.42118	0.42221	-0.01987	0.75689
0.01485	4.94758	1.67964	-0.05971	-3.38037	1.07782	-0.00097	8.46977	0.42246	-0.02017	0.75874
0.01520	5.01798	1.68244	-0.05872	-3.39427	1.07289	-0.00094	8.52532	0.42264	-0.02048	0.76070
0.01556	5.09162	1.68527	-0.05772	-3.40874	1.06784	-0.00092	8.58424	0.42280	-0.02080	0.76273
0.01592	5.16672	1.68814	-0.05670	-3.42345	1.06265	-0.00089	8.64366	0.42295	-0.02111	0.76481
0.01630	5.24180	1.69103	-0.05566	-3.43818	1.05743	-0.00086	8.70131	0.42315	-0.02139	0.76678
0.01668	5.31561	1.69393	-0.05463	-3.45265	1.05230	-0.00083	8.75623	0.42337	-0.02163	0.76852
0.01707	5.39002	1.69678	-0.05362	-3.46714	1.04718	-0.00081	8.81219	0.42358	-0.02184	0.77007
0.01748	5.46969	1.69963	-0.05262	-3.48249	1.04201	-0.00078	8.87563	0.42370	-0.02203	0.77162
0.01789	5.54874	1.70249	-0.05159	-3.49764	1.03651	-0.00075	8.93678	0.42388	-0.02224	0.77324
0.01831	5.61904	1.70536	-0.05049	-3.51116	1.03056	-0.00073	8.98223	0.42429	-0.02248	0.77514
0.01874	5.67600	1.70828	-0.04928	-3.52233	1.02428	-0.00070	9.00352	0.42503	-0.02278	0.77745
0.01918	5.72083	1.71122	-0.04799	-3.53137	1.01768	-0.00068	9.00251	0.42606	-0.02312	0.78003
0.01963	5.75612	1.71415	-0.04668	-3.53865	1.01083	-0.00067	8.98527	0.42731	-0.02348	0.78272
0.02009	5.78402	1.71698	-0.04539	-3.54442	1.00380	-0.00065	8.95819	0.42869	-0.02387	0.78562
0.02057	5.81252	1.71974	-0.04415	-3.55011	0.99681	-0.00064	8.93457	0.43002	-0.02431	0.78884
0.02105	5.84618	1.72250	-0.04290	-3.55656	0.98975	-0.00062	8.92004	0.43124	-0.02477	0.79224
0.02154	5.89039	1.72532	-0.04167	-3.56477	0.98222	-0.00060	8.92047	0.43232	-0.02521	0.79548
0.02205	5.95115	1.72823	-0.04050	-3.57584	0.97425	-0.00058	8.94458	0.43314	-0.02563	0.79854
0.02257	6.03149	1.73121	-0.03942	-3.59029	0.96633	-0.00055	8.99795	0.43359	-0.02603	0.80156
0.02310	6.12628	1.73421	-0.03840	-3.60726	0.95895	-0.00052	9.07333	0.43376	-0.02644	0.80462
0.02364	6.21184	1.73714	-0.03736	-3.62250	0.95206	-0.00050	9.13537	0.43408	-0.02682	0.80750
0.02420	6.26854	1.73988	-0.03625	-3.63248	0.94516	-0.00048	9.15472	0.43490	-0.02718	0.81020
0.02477	6.30513	1.74252	-0.03506	-3.63880	0.93800	-0.00047	9.14322	0.43611	-0.02753	0.81281
0.02535	6.33222	1.74523	-0.03383	-3.64355	0.93076	-0.00046	9.11563	0.43752	-0.02783	0.81520
0.02595	6.36187	1.74804	-0.03265	-3.64874	0.92338	-0.00045	9.09147	0.43890	-0.02809	0.81729
0.02656	6.38816	1.75080	-0.03155	-3.65311	0.91570	-0.00044	9.06438	0.44035	-0.02831	0.81920
0.02719	6.38730	1.75343	-0.03048	-3.65250	0.90799	-0.00044	8.99958	0.44226	-0.02847	0.82077
0.02783	6.36525	1.75603	-0.02932	-3.64817	0.90045	-0.00045	8.90390	0.44456	-0.02860	0.82225
0.02848	6.33361	1.75871	-0.02802	-3.64214	0.89242	-0.00045	8.79344	0.44711	-0.02884	0.82444
0.02915	6.28890	1.76140	-0.02667	-3.63355	0.88326	-0.00046	8.66566	0.44998	-0.02917	0.82732
0.02984	6.23124	1.76392	-0.02542	-3.62224	0.87327	-0.00047	8.52455	0.45308	-0.02941	0.82978
0.03054	6.17403	1.76626	-0.02424	-3.61070	0.86319	-0.00048	8.39003	0.45612	-0.02949	0.83123
0.03126	6.12035	1.76861	-0.02305	-3.59975	0.85358	-0.00050	8.26369	0.45905	-0.02951	0.83235
0.03199	6.06050	1.77100	-0.02180	-3.58775	0.84424	-0.00051	8.13086	0.46210	-0.02958	0.83386
0.03275	5.99667	1.77345	-0.02050	-3.57489	0.83478	-0.00053	7.99621	0.46525	-0.02969	0.83572
0.03352	5.91105	1.77583	-0.01909	-3.55789	0.82536	-0.00055	7.83849	0.46879	-0.02981	0.83776
0.03430	5.78023	1.77782	-0.01765	-3.53248	0.81578	-0.00059	7.62914	0.47314	-0.02994	0.83996
0.03511	5.63898	1.77944	-0.01639	-3.50479	0.80589	-0.00063	7.41389	0.47765	-0.03012	0.84244
0.03594	5.50730	1.78084	-0.01536	-3.47849	0.79555	-0.00067	7.21563	0.48198	-0.03038	0.84550
0.03678	5.37321	1.78207	-0.01435	-3.45173	0.78497	-0.00070	7.01586	0.48642	-0.03071	0.84909
0.03765	5.25358	1.78331	-0.01323	-3.42767	0.77461	-0.00074	6.83510	0.49062	-0.03108	0.85285
0.03854	5.14229	1.78454	-0.01200	-3.40518	0.76412	-0.00076	6.66601	0.49470	-0.03141	0.85640
0.03944	4.99037	1.78546	-0.01054	-3.37530	0.75284	-0.00080	6.45230	0.49967	-0.03168	0.85960
0.04037	4.80065	1.78606	-0.00899	-3.33845	0.74173	-0.00084	6.20290	0.50541	-0.03193	0.86268
0.04132	4.64064	1.78686	-0.00769	-3.30701	0.73314	-0.00089	5.99757	0.51039	-0.03211	0.86532
0.04229	4.52795	1.78802	-0.00668	-3.28420	0.72766	-0.00093	5.85358	0.51418	-0.03217	0.86699
0.04329	4.40656	1.78904	-0.00571	-3.25970	0.72238	-0.00098	5.70375	0.51815	-0.03209	0.86768
0.04431	4.24514	1.78962	-0.00475	-3.22780	0.71527	-0.00103	5.51122	0.52313	-0.03191	0.86760
0.04535	4.06264	1.78959	-0.00388	-3.19172	0.70729	-0.00108	5.30046	0.52862	-0.03170	0.86725

0.04642	3.87695	1.78886	-0.00298	-3.15443	0.70043	-0.00114	5.09525	0.53406	-0.03151	0.86710
0.04751	3.69517	1.78784	-0.00199	-3.11759	0.69497	-0.00120	4.90114	0.53934	-0.03128	0.86663
0.04863	3.50920	1.78684	-0.00104	-3.08005	0.68896	-0.00126	4.70483	0.54491	-0.03089	0.86507
0.04977	3.30634	1.78576	-0.00012	-3.03950	0.68177	-0.00132	4.49284	0.55115	-0.03041	0.86273
0.05094	3.10581	1.78476	0.00079	-2.99943	0.67396	-0.00137	4.28655	0.55755	-0.02998	0.86062
0.05214	2.92427	1.78394	0.00163	-2.96278	0.66583	-0.00143	4.10348	0.56360	-0.02967	0.85927
0.05337	2.74826	1.78304	0.00253	-2.92681	0.65785	-0.00148	3.93339	0.56950	-0.02949	0.85877
0.05462	2.57442	1.78204	0.00362	-2.89076	0.65086	-0.00153	3.77508	0.57525	-0.02935	0.85861
0.05591	2.43019	1.78132	0.00465	-2.86011	0.64719	-0.00159	3.65151	0.57996	-0.02913	0.85800
0.05722	2.32391	1.78094	0.00530	-2.83683	0.64948	-0.00166	3.56737	0.58320	-0.02879	0.85674
0.05857	2.24696	1.78055	0.00561	-2.81898	0.65667	-0.00173	3.51483	0.58516	-0.02846	0.85569
0.05995	2.19734	1.78018	0.00571	-2.80581	0.66460	-0.00179	3.49038	0.58613	-0.02824	0.85569
0.06136	2.14614	1.77998	0.00570	-2.79239	0.66962	-0.00184	3.46291	0.58737	-0.02808	0.85627
0.06280	2.05493	1.78003	0.00564	-2.77245	0.66984	-0.00189	3.39250	0.59033	-0.02781	0.85626
0.06428	1.93252	1.78036	0.00557	-2.74795	0.66613	-0.00193	3.28679	0.59475	-0.02742	0.85549
0.06579	1.81965	1.78048	0.00552	-2.72544	0.66074	-0.00196	3.18701	0.59904	-0.02715	0.85570
0.06734	1.72251	1.77956	0.00553	-2.70460	0.65401	-0.00198	3.10337	0.60276	-0.02710	0.85728
0.06893	1.59635	1.77740	0.00581	-2.67704	0.64596	-0.00201	2.99929	0.60741	-0.02694	0.85803
0.07055	1.40116	1.77442	0.00663	-2.63636	0.63821	-0.00206	2.84235	0.61444	-0.02643	0.85625
0.07221	1.15533	1.77128	0.00796	-2.58678	0.63233	-0.00213	2.65008	0.62340	-0.02573	0.85296
0.07391	0.92000	1.76856	0.00932	-2.53979	0.62858	-0.00220	2.47108	0.63229	-0.02516	0.85030
0.07565	0.72408	1.76614	0.01024	-2.50052	0.62555	-0.00226	2.32483	0.63999	-0.02480	0.84885
0.07743	0.54531	1.76315	0.01070	-2.46405	0.62170	-0.00231	2.19527	0.64712	-0.02454	0.84809
0.07925	0.35364	1.75824	0.01088	-2.42354	0.61659	-0.00236	2.06374	0.65459	-0.02435	0.84779
0.08111	0.15807	1.75064	0.01080	-2.37968	0.61201	-0.00241	1.93797	0.66186	-0.02437	0.84877
0.08302	-0.00445	1.74146	0.01035	-2.34004	0.61034	-0.00246	1.84053	0.66741	-0.02458	0.85107
0.08498	-0.11209	1.73249	0.00941	-2.31022	0.61155	-0.00251	1.78081	0.67055	-0.02475	0.85309
0.08697	-0.17589	1.72432	0.00813	-2.28881	0.61384	-0.00255	1.74834	0.67193	-0.02466	0.85350
0.08902	-0.22675	1.71693	0.00684	-2.27060	0.61644	-0.00258	1.72276	0.67290	-0.02422	0.85171
0.09112	-0.28989	1.71047	0.00573	-2.25161	0.61958	-0.00261	1.68876	0.67450	-0.02339	0.84750
0.09326	-0.37967	1.70494	0.00482	-2.22918	0.62266	-0.00265	1.63860	0.67739	-0.02219	0.84097
0.09545	-0.50105	1.69994	0.00392	-2.20166	0.62343	-0.00269	1.56977	0.68200	-0.02061	0.83214
0.09770	-0.63557	1.69476	0.00272	-2.17161	0.62180	-0.00273	1.49346	0.68754	-0.01875	0.82153
0.10000	-0.75546	1.68891	0.00116	-2.14364	0.62134	-0.00276	1.42734	0.69234	-0.01694	0.81135
0.10235	-0.84328	1.68279	-0.00063	-2.12126	0.62569	-0.00280	1.38303	0.69512	-0.01548	0.80353
0.10476	-0.90148	1.67742	-0.00252	-2.10489	0.63539	-0.00285	1.35945	0.69591	-0.01441	0.79839
0.10723	-0.94612	1.67292	-0.00450	-2.09183	0.64730	-0.00290	1.34561	0.69580	-0.01365	0.79565
0.10975	-0.99825	1.66832	-0.00633	-2.07761	0.65662	-0.00295	1.32602	0.69628	-0.01306	0.79430
0.11233	-1.05904	1.66242	-0.00801	-2.06098	0.66103	-0.00297	1.29808	0.69757	-0.01252	0.79332
0.11498	-1.10984	1.65465	-0.01000	-2.04447	0.66170	-0.00298	1.27299	0.69855	-0.01199	0.79250
0.11768	-1.14035	1.64588	-0.01268	-2.03051	0.66206	-0.00298	1.25849	0.69840	-0.01145	0.79151
0.12045	-1.15973	1.63749	-0.01590	-2.01880	0.66542	-0.00299	1.25138	0.69745	-0.01083	0.78982
0.12328	-1.18284	1.62926	-0.01942	-2.00659	0.67187	-0.00300	1.24346	0.69644	-0.01021	0.78798
0.12619	-1.21946	1.61989	-0.02324	-1.99091	0.67852	-0.00302	1.22802	0.69599	-0.00982	0.78741
0.12916	-1.27533	1.60941	-0.02717	-1.97054	0.68344	-0.00305	1.20185	0.69658	-0.00971	0.78813
0.13219	-1.34489	1.59969	-0.03089	-1.94804	0.68755	-0.00308	1.16949	0.69804	-0.00957	0.78809
0.13531	-1.40930	1.59226	-0.03428	-1.92849	0.69092	-0.00310	1.14087	0.69954	-0.00918	0.78566
0.13849	-1.45014	1.58687	-0.03749	-1.91542	0.69139	-0.00311	1.12365	0.70020	-0.00861	0.78152
0.14175	-1.45967	1.58263	-0.04082	-1.90956	0.68827	-0.00309	1.12131	0.69941	-0.00795	0.77670
0.14508	-1.44634	1.57892	-0.04443	-1.90867	0.68441	-0.00306	1.13159	0.69721	-0.00714	0.77119
0.14850	-1.43029	1.57511	-0.04829	-1.90835	0.68347	-0.00303	1.14609	0.69433	-0.00607	0.76434
0.15199	-1.42923	1.57001	-0.05237	-1.90409	0.68558	-0.00302	1.15496	0.69171	-0.00484	0.75659
0.15557	-1.44975	1.56267	-0.05668	-1.89364	0.68809	-0.00302	1.15311	0.68990	-0.00370	0.74940
0.15923	-1.49699	1.55317	-0.06108	-1.87602	0.68899	-0.00303	1.13647	0.68946	-0.00280	0.74387
0.16298	-1.57369	1.54254	-0.06525	-1.85166	0.68846	-0.00304	1.10326	0.69082	-0.00226	0.74081
0.16681	-1.67418	1.53199	-0.06899	-1.82273	0.68801	-0.00307	1.05717	0.69384	-0.00214	0.74060
0.17074	-1.77823	1.52235	-0.07256	-1.79393	0.68872	-0.00310	1.00935	0.69740	-0.00236	0.74260
0.17475	-1.86485	1.51439	-0.07627	-1.77011	0.69112	-0.00313	0.97061	0.70020	-0.00273	0.74558
0.17887	-1.92013	1.50898	-0.08027	-1.75479	0.69686	-0.00315	0.94870	0.70117	-0.00308	0.74853
0.18307	-1.94023	1.50652	-0.08456	-1.74894	0.70779	-0.00317	0.94684	0.69976	-0.00331	0.75092
0.18738	-1.93644	1.50641	-0.08903	-1.74980	0.72271	-0.00319	0.95941	0.69670	-0.00333	0.75218
0.19179	-1.93106	1.50730	-0.09348	-1.75186	0.73721	-0.00320	0.97328	0.69369	-0.00300	0.75127
0.19631	-1.94720	1.50771	-0.09766	-1.74948	0.74746	-0.00322	0.97429	0.69243	-0.00230	0.74785
0.20092	-1.99728	1.50676	-0.10135	-1.73963	0.75218	-0.00322	0.95514	0.69373	-0.00138	0.74286
0.20565	-2.08827	1.50414	-0.10448	-1.72077	0.75108	-0.00323	0.91265	0.69809	-0.00039	0.73731
0.21049	-2.22481	1.49987	-0.10709	-1.69217	0.74411	-0.00323	0.84614	0.70605	0.00058	0.73177
0.21544	-2.39590	1.49459	-0.10946	-1.65665	0.73266	-0.00323	0.76435	0.71704	0.00159	0.72598
0.22051	-2.57949	1.48907	-0.11193	-1.61915	0.71948	-0.00322	0.68118	0.72949	0.00270	0.71966
0.22570	-2.74367	1.48347	-0.11496	-1.58565	0.70867	-0.00322	0.61287	0.74035	0.00380	0.71349
0.23101	-2.86610	1.47765	-0.11874	-1.55979	0.70311	-0.00322	0.56784	0.74708	0.00474	0.70851
0.23645	-2.93796	1.47146	-0.12331	-1.54277	0.70319	-0.00322	0.54750	0.74843	0.00534	0.70574
0.24201	-2.95975	1.46515	-0.12843	-1.53454	0.70784	-0.00322	0.55038	0.74437	0.00556	0.70559
0.24771	-2.94035	1.45922	-0.13381	-1.53394	0.71569	-0.00321	0.57315	0.73594	0.00541	0.70803
0.25354	-2.88937	1.45424	-0.13930	-1.53976	0.72607	-0.00321	0.61314	0.72438	0.00501	0.71233
0.25950	-2.81658	1.45069	-0.14485	-1.55072	0.73830	-0.00320	0.66768	0.71097	0.00465	0.71668
0.26561	-2.72583	1.44894	-0.15059	-1.56668	0.75226	-0.00318	0.73651	0.69636	0.00463	0.71924
0.27186	-2.61726	1.44939	-0.15659	-1.58833	0.76862	-0.00317	0.82095	0.68084	0.00506	0.71919
0.27826	-2.49839	1.45233	-0.16261	-1.61486	0.78691	-0.00314	0.91779	0.66536	0.00587	0.71677
0.28480	-2.38926	1.45734	-0.16825	-1.64227	0.80451	-0.00311	1.01413	0.65168	0.00681	0.71348
0.29150	-2.31501	1.46323	-0.17332	-1.66455	0.81789	-0.00308	1.09189	0.64138	0.00763	0.71094
0.29836	-2.29041	1.46888	-0.17783	-1.67769	0.82517	-0.00305	1.13838	0.63505	0.00820	0.70984

0.30539	-2.31979	1.47387	-0.18196	-1.68026	0.82605	-0.00302	1.14886	0.63263	0.00861	0.70981
0.31257	-2.39807	1.47791	-0.18598	-1.67274	0.82132	-0.00299	1.12630	0.63362	0.00888	0.71053
0.31993	-2.51150	1.48103	-0.19007	-1.65772	0.81266	-0.00297	1.08073	0.63706	0.00899	0.71199
0.32745	-2.64268	1.48347	-0.19427	-1.63878	0.80192	-0.00296	1.02502	0.64170	0.00894	0.71419
0.33517	-2.78162	1.48548	-0.19849	-1.61825	0.78989	-0.00294	0.96572	0.64698	0.00876	0.71688
0.34304	-2.92258	1.48715	-0.20258	-1.59733	0.77668	-0.00292	0.90712	0.65244	0.00857	0.71938
0.35112	-3.07088	1.48807	-0.20643	-1.57452	0.76149	-0.00289	0.84713	0.65837	0.00840	0.72150
0.35938	-3.22937	1.48764	-0.20998	-1.54843	0.74412	-0.00287	0.78495	0.66493	0.00818	0.72357
0.36784	-3.39092	1.48588	-0.21335	-1.52020	0.72611	-0.00285	0.72647	0.67125	0.00785	0.72606
0.37649	-3.54938	1.48317	-0.21671	-1.49120	0.70982	-0.00284	0.67507	0.67672	0.00739	0.72938
0.38536	-3.70550	1.47975	-0.22024	-1.46149	0.69651	-0.00284	0.62851	0.68167	0.00679	0.73382
0.39442	-3.85490	1.47603	-0.22407	-1.43241	0.68658	-0.00286	0.58721	0.68601	0.00611	0.73907
0.40370	-3.99469	1.47244	-0.22837	-1.40512	0.67959	-0.00288	0.55133	0.68965	0.00547	0.74450
0.41321	-4.12347	1.46931	-0.23322	-1.38036	0.67483	-0.00291	0.52026	0.69271	0.00493	0.74977
0.42292	-4.24401	1.46668	-0.23850	-1.35772	0.67167	-0.00293	0.49228	0.69550	0.00448	0.75481
0.43288	-4.35699	1.46467	-0.24402	-1.33727	0.67013	-0.00294	0.46771	0.69781	0.00406	0.75986
0.44307	-4.45919	1.46319	-0.24966	-1.31962	0.67031	-0.00296	0.44831	0.69902	0.00354	0.76562
0.45349	-4.54968	1.46211	-0.25546	-1.30489	0.67196	-0.00297	0.43452	0.69885	0.00291	0.77234
0.46417	-4.62904	1.46173	-0.26134	-1.29330	0.67496	-0.00297	0.42664	0.69710	0.00222	0.77969
0.47508	-4.70028	1.46237	-0.26716	-1.28461	0.67887	-0.00297	0.42395	0.69396	0.00155	0.78723
0.48626	-4.76669	1.46389	-0.27295	-1.27795	0.68264	-0.00296	0.42497	0.68984	0.00100	0.79433
0.49771	-4.82790	1.46603	-0.27879	-1.27306	0.68600	-0.00294	0.42982	0.68472	0.00066	0.80043
0.50942	-4.88442	1.46880	-0.28464	-1.26971	0.68927	-0.00292	0.43886	0.67852	0.00058	0.80516
0.52140	-4.93649	1.47224	-0.29036	-1.26779	0.69285	-0.00290	0.45244	0.67122	0.00069	0.80890
0.53367	-4.98506	1.47609	-0.29592	-1.26677	0.69655	-0.00288	0.46983	0.66312	0.00086	0.81243
0.54624	-5.02886	1.48001	-0.30137	-1.26655	0.70016	-0.00286	0.49120	0.65431	0.00100	0.81631
0.55910	-5.06601	1.48410	-0.30668	-1.26762	0.70403	-0.00283	0.51787	0.64462	0.00107	0.82056
0.57225	-5.09569	1.48880	-0.31176	-1.27065	0.70882	-0.00281	0.55114	0.63401	0.00114	0.82471
0.58569	-5.11792	1.49436	-0.31659	-1.27593	0.71488	-0.00278	0.59131	0.62270	0.00126	0.82835
0.59948	-5.12935	1.50075	-0.32127	-1.28424	0.72264	-0.00275	0.64038	0.61062	0.00141	0.83164
0.61357	-5.12682	1.50783	-0.32585	-1.29609	0.73221	-0.00272	0.70048	0.59775	0.00156	0.83486
0.62802	-5.10955	1.51568	-0.33035	-1.31172	0.74342	-0.00269	0.77434	0.58399	0.00170	0.83807
0.64280	-5.08122	1.52428	-0.33467	-1.33033	0.75536	-0.00265	0.86167	0.56979	0.00187	0.84097
0.65794	-5.04670	1.53358	-0.33878	-1.35089	0.76713	-0.00261	0.96043	0.55568	0.00213	0.84319
0.67340	-5.01173	1.54336	-0.34267	-1.37204	0.77782	-0.00256	1.06556	0.54241	0.00254	0.84427
0.68927	-4.98135	1.55353	-0.34639	-1.39272	0.78687	-0.00252	1.17175	0.53046	0.00317	0.84378
0.70547	-4.95910	1.56402	-0.34996	-1.41214	0.79397	-0.00247	1.27392	0.52010	0.00403	0.84145
0.72207	-4.94834	1.57488	-0.35339	-1.42971	0.79891	-0.00243	1.36861	0.51130	0.00512	0.83716
0.73910	-4.95387	1.58603	-0.35667	-1.44438	0.80153	-0.00239	1.44981	0.50417	0.00639	0.83094
0.75649	-4.97822	1.59719	-0.35981	-1.45543	0.80171	-0.00235	1.51249	0.49875	0.00782	0.82277
0.77429	-5.02184	1.60807	-0.36292	-1.46250	0.79945	-0.00232	1.55396	0.49498	0.00939	0.81261
0.79246	-5.08488	1.61829	-0.36606	-1.46524	0.79449	-0.00229	1.57183	0.49285	0.01107	0.80052
0.81116	-5.17185	1.62770	-0.36926	-1.46261	0.78622	-0.00226	1.56140	0.49254	0.01285	0.78682
0.83022	-5.28409	1.63609	-0.37244	-1.45410	0.77456	-0.00224	1.52128	0.49413	0.01464	0.77237
0.84976	-5.42348	1.64352	-0.37556	-1.43940	0.75943	-0.00222	1.45252	0.49759	0.01637	0.75802
0.86972	-5.58439	1.65010	-0.37857	-1.41970	0.74164	-0.00220	1.36355	0.50255	0.01791	0.74497
0.89023	-5.76346	1.65606	-0.38143	-1.39594	0.72177	-0.00219	1.26080	0.50881	0.01918	0.73425
0.91116	-5.95111	1.66154	-0.38408	-1.37019	0.70149	-0.00218	1.15488	0.51582	0.02011	0.72677
0.93257	-6.13861	1.66679	-0.38662	-1.34451	0.68224	-0.00217	1.05524	0.52284	0.02069	0.72267
0.95456	-6.32228	1.67197	-0.38905	-1.31991	0.66491	-0.00217	0.96609	0.52934	0.02098	0.72164
0.97704	-6.49704	1.67729	-0.39143	-1.29767	0.65043	-0.00217	0.89209	0.53456	0.02103	0.72320
1.00000	-6.66074	1.68293	-0.39378	-1.27844	0.63916	-0.00217	0.83528	0.53782	0.02090	0.72685
1.02354	-6.81327	1.68904	-0.39611	-1.26258	0.63152	-0.00218	0.79623	0.53854	0.02063	0.73217
1.04767	-6.95498	1.69572	-0.39838	-1.25015	0.62748	-0.00218	0.77470	0.53640	0.02025	0.73879
1.07227	-7.08563	1.70284	-0.40059	-1.24102	0.62646	-0.00219	0.77018	0.53133	0.01978	0.74643
1.09745	-7.20700	1.71027	-0.40273	-1.23474	0.62784	-0.00220	0.78118	0.52350	0.01925	0.75485
1.12334	-7.32253	1.71787	-0.40478	-1.23048	0.63070	-0.00220	0.80514	0.51344	0.01869	0.76366
1.14982	-7.43459	1.72548	-0.40670	-1.22753	0.63434	-0.00220	0.83965	0.50168	0.01821	0.77212
1.17675	-7.54308	1.73304	-0.40845	-1.22579	0.63874	-0.00220	0.88477	0.48849	0.01791	0.77943
1.20453	-7.64977	1.74074	-0.41003	-1.22526	0.64414	-0.00220	0.94246	0.47372	0.01784	0.78509
1.23289	-7.75372	1.74862	-0.41141	-1.22597	0.65067	-0.00220	1.01410	0.45760	0.01802	0.78867
1.26183	-7.85742	1.75676	-0.41251	-1.22740	0.65808	-0.00221	1.09913	0.44052	0.01847	0.79001
1.29149	-7.96427	1.76527	-0.41327	-1.22891	0.66597	-0.00221	1.19646	0.42283	0.01917	0.78910
1.32188	-8.07541	1.77418	-0.41362	-1.23024	0.67410	-0.00221	1.30555	0.40482	0.02013	0.78597
1.35300	-8.19119	1.78342	-0.41355	-1.23116	0.68227	-0.00222	1.42566	0.38675	0.02128	0.78106
1.38485	-8.31037	1.79286	-0.41305	-1.23170	0.69045	-0.00223	1.55743	0.36872	0.02254	0.77519
1.41743	-8.43136	1.80231	-0.41214	-1.23195	0.69856	-0.00223	1.70148	0.35082	0.02379	0.76922
1.45075	-8.55160	1.81163	-0.41088	-1.23226	0.70689	-0.00224	1.86038	0.33302	0.02498	0.76370
1.48500	-8.66981	1.82074	-0.40929	-1.23288	0.71566	-0.00225	2.03805	0.31520	0.02609	0.75883
1.51999	-8.78366	1.82952	-0.40746	-1.23405	0.72499	-0.00226	2.23635	0.29749	0.02713	0.75468
1.55569	-8.89355	1.83801	-0.40544	-1.23568	0.73466	-0.00227	2.45481	0.28006	0.02811	0.75114
1.59236	-9.00160	1.84641	-0.40322	-1.23755	0.74446	-0.00228	2.69219	0.26308	0.02905	0.74813
1.62973	-9.10858	1.85478	-0.40084	-1.23943	0.75420	-0.00229	2.94288	0.24689	0.02993	0.74578
1.66806	-9.21662	1.86332	-0.39830	-1.24111	0.76379	-0.00231	3.20352	0.23157	0.03072	0.74432
1.70736	-9.32554	1.87214	-0.39560	-1.24272	0.77334	-0.00232	3.47224	0.21720	0.03138	0.74406
1.74764	-9.43514	1.88129	-0.39273	-1.24436	0.78284	-0.00233	3.74677	0.20384	0.03188	0.74515
1.78859	-9.54476	1.89073	-0.38974	-1.24599	0.79215	-0.00234	4.02128	0.19164	0.03222	0.74760
1.83083	-9.65639	1.90057	-0.38658	-1.24754	0.80123	-0.00235	4.29538	0.18045	0.03242	0.75135
1.87371	-9.76824	1.91061	-0.38333	-1.24896	0.80986	-0.00236	4.56144	0.17044	0.03248	0.75620
1.91791	-9.88234	1.92091	-0.37995	-1.25011	0.81806	-0.00236	4.81921	0.16143	0.03244	0.76205
1.96309	-9.99798	1.93128	-0.37650	-1.25086	0.82566	-0.00237	5.06239	0.15346	0.03230	0.76863

2.00924	-10.11505	1.94164	-0.37299	-1.25114	0.83260	-0.00238	5.28806	0.14646	0.03209	0.77572
2.05634	-10.23377	1.95193	-0.36945	-1.25085	0.83879	-0.00238	5.49262	0.14039	0.03181	0.78308
2.10482	-10.35521	1.96219	-0.36586	-1.24994	0.84425	-0.00239	5.67577	0.13515	0.03148	0.79052
2.15424	-10.47799	1.97234	-0.36225	-1.24850	0.84901	-0.00239	5.83578	0.13070	0.03113	0.79772
2.20507	-10.60317	1.98250	-0.35860	-1.24655	0.85318	-0.00240	5.97403	0.12695	0.03076	0.80453
2.25683	-10.72938	1.99264	-0.35495	-1.24421	0.85682	-0.00240	6.08944	0.12389	0.03039	0.81093
2.31000	-10.85807	2.00289	-0.35126	-1.24145	0.86001	-0.00241	6.18211	0.12146	0.02999	0.81706
2.36463	-10.98936	2.01331	-0.34753	-1.23832	0.86283	-0.00241	6.25244	0.11962	0.02957	0.82306
2.42014	-11.12180	2.02385	-0.34378	-1.23491	0.86535	-0.00241	6.30133	0.11835	0.02913	0.82900
2.47709	-11.25645	2.03465	-0.33998	-1.23129	0.86767	-0.00242	6.33100	0.11758	0.02865	0.83509
2.53550	-11.39333	2.04574	-0.33612	-1.22748	0.86979	-0.00242	6.34219	0.11730	0.02814	0.84151
2.59471	-11.53059	2.05703	-0.33224	-1.22362	0.87177	-0.00242	6.33682	0.11747	0.02759	0.84834
2.65604	-11.67067	2.06870	-0.32826	-1.21972	0.87372	-0.00243	6.31729	0.11806	0.02700	0.85577
2.71887	-11.81187	2.08065	-0.32423	-1.21583	0.87564	-0.00243	6.28556	0.11902	0.02637	0.86376
2.78242	-11.95207	2.09270	-0.32020	-1.21209	0.87754	-0.00243	6.24394	0.12031	0.02572	0.87228
2.84819	-12.09384	2.10502	-0.31607	-1.20844	0.87947	-0.00244	6.19372	0.12190	0.02502	0.88157
2.91545	-12.23570	2.11754	-0.31194	-1.20493	0.88143	-0.00244	6.13614	0.12376	0.02431	0.89158
2.98329	-12.37461	2.12987	-0.30781	-1.20169	0.88343	-0.00244	6.07477	0.12583	0.02358	0.90203
3.05344	-12.51455	2.14244	-0.30366	-1.19857	0.88548	-0.00244	6.00852	0.12810	0.02283	0.91292
3.12598	-12.65446	2.15506	-0.29942	-1.19570	0.88764	-0.00244	5.93937	0.13058	0.02207	0.92406
3.19898	-12.79097	2.16746	-0.29529	-1.19305	0.88979	-0.00245	5.86932	0.13314	0.02132	0.93480
3.27439	-12.92723	2.17986	-0.29108	-1.19065	0.89204	-0.00245	5.79778	0.13586	0.02058	0.94517
3.35121	-13.06131	2.19211	-0.28694	-1.18845	0.89431	-0.00245	5.72676	0.13863	0.01986	0.95482
3.43053	-13.19489	2.20433	-0.28271	-1.18652	0.89668	-0.00245	5.65585	0.14151	0.01914	0.96412
3.51124	-13.32625	2.21638	-0.27857	-1.18475	0.89906	-0.00244	5.58689	0.14437	0.01845	0.97316
3.59324	-13.45452	2.22809	-0.27437	-1.18332	0.90153	-0.00244	5.52089	0.14726	0.01776	0.98229
3.67782	-13.58352	2.24000	-0.27023	-1.18191	0.90398	-0.00244	5.45553	0.15013	0.01708	0.99195
3.76506	-13.71017	2.25148	-0.26590	-1.18092	0.90660	-0.00244	5.39424	0.15301	0.01640	1.00258
3.85356	-13.83743	2.26334	-0.26175	-1.17980	0.90911	-0.00244	5.33299	0.15583	0.01574	1.01385
3.94477	-13.96092	2.27442	-0.25737	-1.17914	0.91179	-0.00243	5.27780	0.15859	0.01509	1.02579
4.03714	-14.08600	2.28609	-0.25312	-1.17834	0.91436	-0.00243	5.22177	0.16131	0.01446	1.03787
4.13223	-14.20853	2.29719	-0.24879	-1.17775	0.91698	-0.00243	5.17056	0.16392	0.01386	1.04997
4.23012	-14.33118	2.30833	-0.24427	-1.17739	0.91971	-0.00242	5.12112	0.16654	0.01327	1.06183
4.32900	-14.45527	2.31998	-0.24002	-1.17672	0.92221	-0.00242	5.07099	0.16905	0.01273	1.07276
4.43066	-14.57313	2.33033	-0.23543	-1.17665	0.92495	-0.00241	5.02858	0.17147	0.01221	1.08306
4.53515	-14.69722	2.34196	-0.23091	-1.17629	0.92756	-0.00241	4.98216	0.17392	0.01170	1.09266
4.64253	-14.82001	2.35327	-0.22648	-1.17589	0.93009	-0.00241	4.93859	0.17624	0.01123	1.10153
4.75059	-14.93519	2.36329	-0.22172	-1.17613	0.93286	-0.00240	4.90204	0.17848	0.01077	1.10975
4.86145	-15.05972	2.37522	-0.21721	-1.17575	0.93531	-0.00240	4.85883	0.18076	0.01034	1.11731
4.97760	-15.18138	2.38624	-0.21260	-1.17556	0.93785	-0.00239	4.82057	0.18289	0.00992	1.12450
5.09424	-15.29567	2.39604	-0.20765	-1.17603	0.94062	-0.00239	4.78849	0.18499	0.00950	1.13124
5.21376	-15.42170	2.40825	-0.20303	-1.17568	0.94299	-0.00238	4.74813	0.18713	0.00910	1.13748
5.33618	-15.54152	2.41916	-0.19851	-1.17548	0.94534	-0.00237	4.71348	0.18906	0.00873	1.14340
5.46150	-15.65206	2.42819	-0.19343	-1.17620	0.94810	-0.00237	4.68717	0.19095	0.00834	1.14932
5.58971	-15.77596	2.43999	-0.18862	-1.17612	0.95046	-0.00236	4.65181	0.19293	0.00797	1.15504
5.72082	-15.90090	2.45200	-0.18423	-1.17558	0.95253	-0.00235	4.61618	0.19474	0.00764	1.16068
5.85823	-16.00943	2.46034	-0.17911	-1.17642	0.95523	-0.00235	4.59463	0.19643	0.00727	1.16684
5.99520	-16.12428	2.47038	-0.17402	-1.17697	0.95773	-0.00234	4.56830	0.19820	0.00691	1.17299
6.13497	-16.25338	2.48337	-0.16954	-1.17637	0.95964	-0.00233	4.53262	0.19996	0.00659	1.17900
6.28141	-16.36858	2.49322	-0.16497	-1.17645	0.96181	-0.00233	4.50775	0.20147	0.00627	1.18539
6.42674	-16.46737	2.50016	-0.15983	-1.17771	0.96444	-0.00232	4.49324	0.20293	0.00592	1.19201
6.57895	-16.58578	2.51082	-0.15476	-1.17814	0.96672	-0.00231	4.46812	0.20455	0.00559	1.19879
6.73401	-16.71823	2.52443	-0.15041	-1.17735	0.96837	-0.00230	4.43426	0.20612	0.00531	1.20537
6.89180	-16.82437	2.53278	-0.14601	-1.17770	0.97040	-0.00230	4.41626	0.20737	0.00503	1.21222
7.05716	-16.91909	2.53851	-0.14072	-1.17933	0.97304	-0.00229	4.40733	0.20865	0.00469	1.21960
7.22022	-17.02890	2.54786	-0.13581	-1.18002	0.97519	-0.00228	4.38862	0.21002	0.00438	1.22648
7.39098	-17.16180	2.56161	-0.13142	-1.17934	0.97671	-0.00227	4.35791	0.21145	0.00413	1.23301
7.56430	-17.27680	2.57187	-0.12751	-1.17899	0.97822	-0.00226	4.33641	0.21256	0.00390	1.23919
7.73994	-17.35531	2.57488	-0.12272	-1.18092	0.98068	-0.00226	4.33545	0.21352	0.00360	1.24550
7.92393	-17.45285	2.58147	-0.11768	-1.18229	0.98295	-0.00225	4.32595	0.21467	0.00330	1.25143
8.11030	-17.56796	2.59182	-0.11299	-1.18271	0.98475	-0.00224	4.30739	0.21588	0.00304	1.25665
8.29876	-17.70396	2.60662	-0.10917	-1.18159	0.98581	-0.00223	4.27781	0.21706	0.00285	1.26099
8.49618	-17.80485	2.61398	-0.10543	-1.18183	0.98733	-0.00222	4.26568	0.21790	0.00265	1.26545
8.69565	-17.86986	2.61427	-0.10070	-1.18434	0.98979	-0.00222	4.27182	0.21867	0.00235	1.27031
8.90472	-17.96376	2.62015	-0.09589	-1.18580	0.99185	-0.00221	4.26567	0.21964	0.00207	1.27490
9.11577	-18.06937	2.62864	-0.09133	-1.18664	0.99360	-0.00220	4.25397	0.22063	0.00183	1.27922
9.32836	-18.20648	2.64381	-0.08742	-1.18576	0.99459	-0.00218	4.22806	0.22168	0.00167	1.28303
9.54198	-18.32511	2.65545	-0.08443	-1.18480	0.99537	-0.00217	4.20881	0.22239	0.00155	1.28687
9.76563	-18.37780	2.65343	-0.08050	-1.18725	0.99749	-0.00217	4.21817	0.22294	0.00128	1.29218
10.00000	-18.44306	2.65367	-0.07589	-1.18976	0.99971	-0.00217	4.22467	0.22363	0.00100	1.29827

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Median stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 152 - 305 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.46893	3.39155	-0.04413	-1.74957	1.06901	-0.00100	1.46420	0.42974	-0.01406	0.31903
PGV	2.13189	1.88151	-0.13357	-2.43549	1.31767	-0.00161	5.40198	0.36009	-0.01013	0.41554
PGA	1.77541	1.57835	-0.07097	-2.74848	1.07342	-0.00172	5.04504	0.45700	-0.03172	0.74173
0.01000	2.46530	1.59759	-0.06920	-2.89024	1.08644	-0.00155	5.86430	0.44337	-0.01490	0.71501
0.01024	2.46815	1.60014	-0.06840	-2.89213	1.08128	-0.00154	5.84962	0.44466	-0.01500	0.71568
0.01048	2.47444	1.60265	-0.06761	-2.89463	1.07630	-0.00153	5.83879	0.44586	-0.01511	0.71639
0.01072	2.48441	1.60512	-0.06683	-2.89779	1.07147	-0.00152	5.83219	0.44695	-0.01523	0.71711
0.01097	2.49840	1.60757	-0.06606	-2.90168	1.06679	-0.00151	5.83018	0.44793	-0.01535	0.71783
0.01123	2.51647	1.61001	-0.06529	-2.90631	1.06228	-0.00149	5.83290	0.44881	-0.01548	0.71856
0.01150	2.53814	1.61245	-0.06452	-2.91161	1.05791	-0.00148	5.83960	0.44959	-0.01563	0.71931
0.01177	2.56252	1.61489	-0.06374	-2.91741	1.05363	-0.00146	5.84895	0.45032	-0.01578	0.72009
0.01205	2.58954	1.61733	-0.06294	-2.92369	1.04943	-0.00144	5.86084	0.45099	-0.01594	0.72087
0.01233	2.62084	1.61980	-0.06213	-2.93079	1.04543	-0.00143	5.87738	0.45156	-0.01611	0.72168
0.01262	2.65672	1.62230	-0.06131	-2.93876	1.04157	-0.00141	5.89883	0.45203	-0.01629	0.72254
0.01292	2.69594	1.62482	-0.06048	-2.94733	1.03769	-0.00139	5.92358	0.45245	-0.01648	0.72343
0.01322	2.73629	1.62734	-0.05964	-2.95608	1.03373	-0.00137	5.94890	0.45285	-0.01666	0.72429
0.01353	2.77608	1.62983	-0.05877	-2.96469	1.02978	-0.00135	5.97269	0.45328	-0.01684	0.72510
0.01385	2.81920	1.63233	-0.05791	-2.97391	1.02601	-0.00133	6.00024	0.45363	-0.01703	0.72595
0.01417	2.87092	1.63493	-0.05704	-2.98476	1.02253	-0.00131	6.03823	0.45379	-0.01723	0.72689
0.01451	2.93508	1.63768	-0.05614	-2.99798	1.01932	-0.00129	6.09091	0.45370	-0.01744	0.72794
0.01485	3.00560	1.64053	-0.05520	-3.01242	1.01614	-0.00126	6.15029	0.45351	-0.01766	0.72906
0.01520	3.06909	1.64330	-0.05425	-3.02547	1.01274	-0.00124	6.19955	0.45351	-0.01787	0.73018
0.01556	3.12650	1.64598	-0.05330	-3.03729	1.00908	-0.00122	6.24035	0.45366	-0.01808	0.73135
0.01592	3.18692	1.64867	-0.05234	-3.04961	1.00528	-0.00119	6.28447	0.45377	-0.01830	0.73265
0.01630	3.25725	1.65145	-0.05138	-3.06374	1.00150	-0.00117	6.34064	0.45369	-0.01854	0.73414
0.01668	3.33806	1.65432	-0.05042	-3.07979	0.99773	-0.00114	6.40963	0.45340	-0.01879	0.73579
0.01707	3.41580	1.65717	-0.04944	-3.09522	0.99380	-0.00111	6.47366	0.45321	-0.01902	0.73732
0.01748	3.48092	1.65998	-0.04840	-3.10832	0.98963	-0.00109	6.51911	0.45337	-0.01924	0.73880
0.01789	3.54331	1.66285	-0.04729	-3.12093	0.98521	-0.00107	6.55839	0.45366	-0.01948	0.74053
0.01831	3.60960	1.66577	-0.04615	-3.13420	0.98054	-0.00104	6.60105	0.45393	-0.01976	0.74243
0.01874	3.67594	1.66872	-0.04498	-3.14744	0.97568	-0.00102	6.64232	0.45424	-0.02004	0.74443
0.01918	3.73322	1.67166	-0.04376	-3.15902	0.97085	-0.00100	6.67030	0.45478	-0.02032	0.74633
0.01963	3.78433	1.67452	-0.04254	-3.16939	0.96620	-0.00098	6.69014	0.45544	-0.02056	0.74804
0.02009	3.83240	1.67731	-0.04134	-3.17905	0.96144	-0.00096	6.70613	0.45617	-0.02081	0.74976
0.02057	3.86909	1.68003	-0.04008	-3.18647	0.95606	-0.00095	6.70543	0.45722	-0.02107	0.75157
0.02105	3.90287	1.68273	-0.03877	-3.19326	0.95008	-0.00093	6.69882	0.45840	-0.02134	0.75350
0.02154	3.95391	1.68547	-0.03752	-3.20311	0.94418	-0.00091	6.71508	0.45919	-0.02166	0.75569
0.02205	4.02675	1.68825	-0.03637	-3.21682	0.93853	-0.00089	6.76179	0.45946	-0.02203	0.75825
0.02257	4.11778	1.69119	-0.03527	-3.23379	0.93298	-0.00086	6.83301	0.45935	-0.02246	0.76117
0.02310	4.22174	1.69437	-0.03414	-3.25320	0.92757	-0.00083	6.92017	0.45901	-0.02292	0.76430
0.02364	4.32319	1.69766	-0.03296	-3.27220	0.92216	-0.00080	7.00213	0.45881	-0.02333	0.76711
0.02420	4.40714	1.70093	-0.03178	-3.28803	0.91660	-0.00078	7.05864	0.45902	-0.02362	0.76916
0.02477	4.47628	1.70419	-0.03057	-3.30113	0.91078	-0.00076	7.09319	0.45963	-0.02384	0.77071
0.02535	4.53780	1.70750	-0.02926	-3.31278	0.90461	-0.00074	7.11577	0.46046	-0.02405	0.77228
0.02595	4.58881	1.71075	-0.02787	-3.32247	0.89827	-0.00072	7.12320	0.46154	-0.02432	0.77420
0.02656	4.62722	1.71386	-0.02644	-3.32979	0.89213	-0.00071	7.11366	0.46287	-0.02462	0.77636
0.02719	4.64512	1.71670	-0.02502	-3.33300	0.88573	-0.00071	7.07989	0.46458	-0.02496	0.77885
0.02783	4.62935	1.71911	-0.02359	-3.32946	0.87774	-0.00071	7.00732	0.46697	-0.02540	0.78209
0.02848	4.58875	1.72123	-0.02216	-3.32097	0.86813	-0.00072	6.90614	0.46990	-0.02590	0.78567
0.02915	4.55494	1.72328	-0.02078	-3.31357	0.85841	-0.00072	6.81508	0.47268	-0.02633	0.78893
0.02984	2.69219	1.71328	-0.00880	-2.95838	0.75669	-0.00108	4.58707	0.52333	-0.02654	0.79111
0.03054	4.59204	1.72792	-0.01852	-3.31754	0.84207	-0.00072	6.77008	0.47591	-0.02707	0.79484
0.03126	4.65512	1.73062	-0.01761	-3.32771	0.83631	-0.00071	6.80661	0.47648	-0.02748	0.79820
0.03199	4.72204	1.73363	-0.01663	-3.33874	0.83093	-0.00070	6.84646	0.47703	-0.02789	0.80174
0.03275	4.75109	1.73646	-0.01555	-3.34275	0.82386	-0.00070	6.83652	0.47848	-0.02825	0.80502
0.03352	4.70261	1.73861	-0.01434	-3.33243	0.81437	-0.00071	6.72860	0.48161	-0.02851	0.80758
0.03430	4.59196	1.74013	-0.01300	-3.31069	0.80376	-0.00074	6.54564	0.48605	-0.02864	0.80937
0.03511	4.46711	1.74138	-0.01158	-3.28631	0.79415	-0.00077	6.35160	0.49070	-0.02875	0.81113
0.03594	4.35130	1.74270	-0.01008	-3.26354	0.78583	-0.00080	6.17482	0.49511	-0.02903	0.81415
0.03678	4.25263	1.74411	-0.00863	-3.24377	0.77801	-0.00083	6.02453	0.49911	-0.02937	0.81761
0.03765	4.19249	1.74552	-0.00759	-3.23064	0.77055	-0.00085	5.92683	0.50212	-0.02956	0.82005
0.03854	4.16269	1.74682	-0.00699	-3.22256	0.76256	-0.00087	5.86838	0.50438	-0.02963	0.82157
0.03944	4.10735	1.74794	-0.00634	-3.20961	0.75265	-0.00088	5.77667	0.50741	-0.02963	0.82257
0.04037	4.00327	1.74890	-0.00540	-3.18783	0.74178	-0.00091	5.62494	0.51180	-0.02955	0.82299
0.04132	3.86134	1.74969	-0.00419	-3.15915	0.73113	-0.00095	5.43216	0.51717	-0.02939	0.82276
0.04229	3.70426	1.75055	-0.00283	-3.12763	0.72103	-0.00099	5.22982	0.52295	-0.02922	0.82255
0.04329	3.54874	1.75155	-0.00140	-3.09614	0.71149	-0.00104	5.04059	0.52863	-0.02923	0.82351
0.04431	3.40741	1.75249	-0.00002	-3.06681	0.70297	-0.00109	4.87932	0.53377	-0.02946	0.82596
0.04535	3.29210	1.75356	0.00120	-3.04200	0.69570	-0.00114	4.75361	0.53813	-0.02982	0.82930

0.04642	3.16858	1.75481	0.00258	-3.01613	0.68938	-0.00120	4.61876	0.54278	-0.03022	0.83289
0.04751	3.00152	1.75591	0.00437	-2.98292	0.68239	-0.00126	4.43340	0.54889	-0.03056	0.83615
0.04863	2.79392	1.75629	0.00644	-2.94222	0.67314	-0.00132	4.20521	0.55646	-0.03088	0.83918
0.04977	2.56746	1.75579	0.00845	-2.89754	0.66195	-0.00137	3.96387	0.56475	-0.03125	0.84255
0.05094	2.35647	1.75505	0.01005	-2.85540	0.65042	-0.00143	3.74701	0.57269	-0.03161	0.84572
0.05214	2.15180	1.75439	0.01135	-2.81449	0.63968	-0.00148	3.54659	0.58042	-0.03184	0.84791
0.05337	1.94232	1.75362	0.01253	-2.77275	0.63071	-0.00154	3.35248	0.58820	-0.03194	0.84922
0.05462	1.74465	1.75267	0.01353	-2.73302	0.62383	-0.00160	3.17871	0.59547	-0.03204	0.85066
0.05591	1.56703	1.75168	0.01444	-2.69693	0.61843	-0.00165	3.02820	0.60207	-0.03219	0.85259
0.05722	1.41745	1.75063	0.01528	-2.66585	0.61382	-0.00171	2.90482	0.60777	-0.03227	0.85411
0.05857	1.29191	1.74907	0.01592	-2.63846	0.60944	-0.00175	2.80452	0.61262	-0.03226	0.85518
0.05995	1.19757	1.74724	0.01623	-2.61654	0.60697	-0.00180	2.73066	0.61630	-0.03217	0.85588
0.06136	1.12957	1.74543	0.01622	-2.59983	0.60664	-0.00183	2.67652	0.61900	-0.03200	0.85605
0.06280	1.05510	1.74315	0.01603	-2.58199	0.60607	-0.00187	2.61560	0.62193	-0.03191	0.85680
0.06428	0.95887	1.74007	0.01582	-2.55959	0.60377	-0.00190	2.53829	0.62568	-0.03193	0.85832
0.06579	0.83626	1.73681	0.01584	-2.53194	0.60011	-0.00195	2.44485	0.63045	-0.03189	0.85947
0.06734	0.69269	1.73427	0.01622	-2.50065	0.59587	-0.00200	2.34129	0.63614	-0.03163	0.85915
0.06893	0.54467	1.73235	0.01670	-2.46892	0.59155	-0.00205	2.23759	0.64222	-0.03119	0.85758
0.07055	0.38325	1.72995	0.01712	-2.43471	0.58661	-0.00210	2.12388	0.64911	-0.03062	0.85500
0.07221	0.19583	1.72641	0.01760	-2.39520	0.57973	-0.00215	1.99101	0.65748	-0.02983	0.85068
0.07391	0.00427	1.72261	0.01813	-2.35474	0.57082	-0.00219	1.85685	0.66658	-0.02886	0.84505
0.07565	-0.17050	1.71911	0.01863	-2.31743	0.56144	-0.00223	1.73845	0.67527	-0.02808	0.84059
0.07743	-0.30576	1.71574	0.01882	-2.28709	0.55499	-0.00226	1.65189	0.68199	-0.02763	0.83833
0.07925	-0.38474	1.71305	0.01839	-2.26737	0.55318	-0.00230	1.60447	0.68579	-0.02729	0.83669
0.08111	-0.44057	1.71078	0.01751	-2.25241	0.55329	-0.00233	1.57197	0.68839	-0.02700	0.83539
0.08302	-0.51471	1.70832	0.01665	-2.23431	0.55279	-0.00236	1.52843	0.69189	-0.02682	0.83493
0.08498	-0.61726	1.70576	0.01605	-2.21132	0.55180	-0.00239	1.46867	0.69686	-0.02664	0.83457
0.08697	-0.73178	1.70299	0.01556	-2.18620	0.55157	-0.00243	1.40355	0.70242	-0.02649	0.83448
0.08902	-0.82760	1.69970	0.01467	-2.16428	0.55265	-0.00247	1.34980	0.70701	-0.02648	0.83551
0.09112	-0.91264	1.69508	0.01352	-2.14352	0.55366	-0.00250	1.30188	0.71098	-0.02652	0.83722
0.09326	-1.00548	1.68844	0.01234	-2.11988	0.55469	-0.00253	1.25060	0.71509	-0.02651	0.83880
0.09545	-1.08637	1.68044	0.01077	-2.09718	0.55879	-0.00257	1.20866	0.71803	-0.02633	0.83952
0.09770	-1.13511	1.67234	0.00867	-2.07980	0.56720	-0.00261	1.18792	0.71862	-0.02591	0.83884
0.10000	-1.17679	1.66429	0.00656	-2.06341	0.57614	-0.00266	1.17323	0.71861	-0.02524	0.83678
0.10235	-1.24387	1.65491	0.00475	-2.04116	0.58034	-0.00270	1.14345	0.72036	-0.02450	0.83432
0.10476	-1.32699	1.64436	0.00303	-2.01475	0.58158	-0.00273	1.10373	0.72338	-0.02382	0.83257
0.10723	-1.39126	1.63533	0.00106	-1.99282	0.58628	-0.00277	1.07542	0.72534	-0.02311	0.83078
0.10975	-1.42354	1.62952	-0.00121	-1.97935	0.59449	-0.00281	1.06521	0.72553	-0.02228	0.82815
0.11233	-1.44496	1.62551	-0.00366	-1.96949	0.59945	-0.00283	1.05876	0.72564	-0.02154	0.82585
0.11498	-1.49454	1.62055	-0.00608	-1.95403	0.59652	-0.00284	1.03335	0.72815	-0.02095	0.82408
0.11768	-1.57837	1.61384	-0.00840	-1.93127	0.59063	-0.00285	0.98891	0.73289	-0.02024	0.82125
0.12045	-1.64792	1.60710	-0.01096	-1.91116	0.58983	-0.00287	0.95514	0.73615	-0.01950	0.81802
0.12328	-1.67921	1.60137	-0.01397	-1.89862	0.59428	-0.00289	0.94459	0.73633	-0.01893	0.81592
0.12619	-1.71463	1.59561	-0.01706	-1.88523	0.59874	-0.00291	0.93380	0.73651	-0.01842	0.81412
0.12916	-1.79403	1.58817	-0.01992	-1.86255	0.59945	-0.00294	0.90048	0.73967	-0.01782	0.81157
0.13219	-1.89758	1.57946	-0.02274	-1.83463	0.59771	-0.00297	0.85437	0.74473	-0.01725	0.80889
0.13531	-1.97972	1.57131	-0.02599	-1.81138	0.59823	-0.00299	0.81869	0.74844	-0.01684	0.80695
0.13849	-2.02150	1.56408	-0.02982	-1.79658	0.60333	-0.00301	0.80240	0.74915	-0.01646	0.80512
0.14175	-2.04089	1.55665	-0.03382	-1.78572	0.60988	-0.00303	0.79664	0.74814	-0.01602	0.80264
0.14508	-2.07334	1.54813	-0.03748	-1.77114	0.61138	-0.00303	0.78428	0.74832	-0.01556	0.79981
0.14850	-2.13022	1.53877	-0.04084	-1.75076	0.60576	-0.00303	0.76010	0.75078	-0.01510	0.79688
0.15199	-2.18416	1.52950	-0.04449	-1.73071	0.59937	-0.00302	0.73776	0.75307	-0.01445	0.79267
0.15557	-2.21255	1.52104	-0.04872	-1.71645	0.59954	-0.00302	0.72839	0.75288	-0.01360	0.78704
0.15923	-2.22838	1.51400	-0.05310	-1.70651	0.60702	-0.00304	0.72650	0.75107	-0.01287	0.78238
0.16298	-2.25786	1.50873	-0.05702	-1.69624	0.61754	-0.00306	0.71984	0.75013	-0.01253	0.78047
0.16681	-2.30946	1.50458	-0.06041	-1.68288	0.62656	-0.00310	0.70378	0.75115	-0.01239	0.77996
0.17074	-2.37072	1.50069	-0.06355	-1.66754	0.63259	-0.00313	0.68356	0.75329	-0.01195	0.77755
0.17475	-2.43614	1.49673	-0.06660	-1.65114	0.63650	-0.00316	0.66139	0.75600	-0.01082	0.77062
0.17887	-2.50737	1.49224	-0.06986	-1.63356	0.64000	-0.00318	0.63577	0.75931	-0.00914	0.76011
0.18307	-2.57396	1.48665	-0.07374	-1.61661	0.64439	-0.00320	0.60988	0.76240	-0.00748	0.74997
0.18738	-2.62235	1.47966	-0.07843	-1.60243	0.64855	-0.00320	0.58870	0.76426	-0.00623	0.74308
0.19179	-2.64757	1.47207	-0.08368	-1.59233	0.65168	-0.00319	0.57570	0.76432	-0.00542	0.73951
0.19631	-2.66854	1.46529	-0.08872	-1.58358	0.65365	-0.00317	0.56611	0.76392	-0.00490	0.73824
0.20092	-2.71077	1.46000	-0.09286	-1.57150	0.65241	-0.00315	0.55132	0.76532	-0.00457	0.73831
0.20565	-2.77713	1.45574	-0.09620	-1.55489	0.64671	-0.00314	0.53015	0.76891	-0.00426	0.73853
0.21049	-2.85992	1.45188	-0.09915	-1.53476	0.63885	-0.00313	0.50516	0.77396	-0.00400	0.73866
0.21544	-2.94570	1.44858	-0.10230	-1.51444	0.63230	-0.00313	0.48117	0.77903	-0.00373	0.73856
0.22051	-3.02016	1.44663	-0.10606	-1.49818	0.62740	-0.00313	0.46264	0.78281	-0.00327	0.73712
0.22570	-3.07257	1.44617	-0.11046	-1.48844	0.62310	-0.00311	0.45240	0.78434	-0.00259	0.73445
0.23101	-3.10097	1.44705	-0.11519	-1.48513	0.61992	-0.00308	0.45082	0.78349	-0.00192	0.73225
0.23645	-3.11018	1.44905	-0.11995	-1.48659	0.61914	-0.00305	0.45670	0.78068	-0.00139	0.73141
0.24201	-3.11060	1.45161	-0.12451	-1.48998	0.62204	-0.00303	0.46711	0.77674	-0.00099	0.73167
0.24771	-3.11630	1.45394	-0.12882	-1.49185	0.62819	-0.00303	0.47690	0.77295	-0.00068	0.73266
0.25354	-3.14138	1.45464	-0.13300	-1.48844	0.63374	-0.00303	0.47904	0.77093	-0.00032	0.73315
0.25950	-3.19144	1.45282	-0.13709	-1.47809	0.63468	-0.00303	0.46999	0.77150	0.00027	0.73183
0.26561	-3.25557	1.44922	-0.14110	-1.46349	0.63074	-0.00302	0.45477	0.77357	0.00103	0.72940
0.27186	-3.32028	1.44539	-0.14507	-1.44855	0.62393	-0.00299	0.44036	0.77551	0.00177	0.72711
0.27826	-3.37856	1.44218	-0.14920	-1.43546	0.61641	-0.00296	0.43031	0.77626	0.00241	0.72543
0.28480	-3.42379	1.44000	-0.15362	-1.42618	0.61078	-0.00294	0.42725	0.77486	0.00297	0.72419
0.29150	-3.45353	1.43916	-0.15835	-1.42166	0.60896	-0.00292	0.43190	0.77101	0.00355	0.72259
0.29836	-3.47144	1.43919	-0.16334	-1.42060	0.61073	-0.00291	0.44218	0.76541	0.00420	0.72035

0.30539	-3.48801	1.43920	-0.16842	-1.41971	0.61418	-0.00290	0.45299	0.75971	0.00483	0.71828
0.31257	-3.50144	1.43848	-0.17370	-1.41830	0.61829	-0.00290	0.46447	0.75390	0.00537	0.71698
0.31993	-3.50597	1.43664	-0.17946	-1.41711	0.62272	-0.00289	0.47900	0.74725	0.00585	0.71629
0.32745	-3.50825	1.43377	-0.18558	-1.41525	0.62741	-0.00288	0.49445	0.74028	0.00640	0.71503
0.33517	-3.51884	1.43024	-0.19188	-1.41134	0.63271	-0.00287	0.50706	0.73384	0.00713	0.71229
0.34304	-3.54621	1.42646	-0.19814	-1.40427	0.63769	-0.00287	0.51309	0.72885	0.00795	0.70821
0.35112	-3.58597	1.42310	-0.20430	-1.39551	0.64272	-0.00287	0.51459	0.72488	0.00866	0.70413
0.35938	-3.62951	1.42090	-0.21017	-1.38739	0.64974	-0.00288	0.51557	0.72110	0.00903	0.70170
0.36784	-3.67396	1.42035	-0.21574	-1.38106	0.65886	-0.00290	0.51720	0.71732	0.00900	0.70146
0.37649	-3.72274	1.42126	-0.22113	-1.37586	0.66718	-0.00291	0.51677	0.71421	0.00876	0.70239
0.38536	-3.78002	1.42299	-0.22644	-1.37052	0.67223	-0.00290	0.51122	0.71242	0.00858	0.70310
0.39442	-3.84666	1.42529	-0.23157	-1.36459	0.67325	-0.00288	0.50040	0.71199	0.00859	0.70304
0.40370	-3.92340	1.42839	-0.23629	-1.35801	0.66975	-0.00284	0.48544	0.71278	0.00874	0.70274
0.41321	-4.00960	1.43243	-0.24040	-1.35085	0.66158	-0.00279	0.46767	0.71465	0.00895	0.70267
0.42292	-4.10296	1.43702	-0.24393	-1.34298	0.64971	-0.00273	0.44903	0.71706	0.00923	0.70248
0.43288	-4.20701	1.44147	-0.24714	-1.33270	0.63524	-0.00268	0.42868	0.72009	0.00974	0.70114
0.44307	-4.31950	1.44536	-0.25031	-1.31970	0.62009	-0.00264	0.40749	0.72349	0.01050	0.69858
0.45349	-4.43743	1.44840	-0.25366	-1.30413	0.60517	-0.00261	0.38560	0.72733	0.01126	0.69647
0.46417	-4.55729	1.45062	-0.25728	-1.28676	0.59053	-0.00259	0.36320	0.73167	0.01170	0.69697
0.47508	-4.67117	1.45252	-0.26124	-1.26992	0.57749	-0.00257	0.34316	0.73554	0.01159	0.70143
0.48626	-4.77394	1.45448	-0.26566	-1.25535	0.56760	-0.00256	0.32761	0.73796	0.01096	0.70935
0.49771	-4.86617	1.45657	-0.27064	-1.24318	0.56201	-0.00256	0.31707	0.73839	0.01015	0.71825
0.50942	-4.95000	1.45902	-0.27611	-1.23318	0.56192	-0.00257	0.31185	0.73648	0.00946	0.72606
0.52140	-5.02829	1.46194	-0.28180	-1.22486	0.56775	-0.00260	0.31114	0.73247	0.00900	0.73218
0.53367	-5.10464	1.46510	-0.28749	-1.21733	0.57857	-0.00265	0.31314	0.72711	0.00871	0.73719
0.54624	-5.17527	1.46853	-0.29316	-1.21155	0.59372	-0.00270	0.31864	0.72023	0.00849	0.74195
0.55910	-5.23706	1.47267	-0.29879	-1.20881	0.61159	-0.00275	0.32850	0.71174	0.00835	0.74644
0.57225	-5.29433	1.47782	-0.30426	-1.20867	0.62886	-0.00279	0.34100	0.70252	0.00835	0.75009
0.58569	-5.35196	1.48375	-0.30946	-1.20996	0.64220	-0.00280	0.35390	0.69346	0.00848	0.75300
0.59948	-5.41079	1.49010	-0.31442	-1.21215	0.64994	-0.00278	0.36669	0.68465	0.00864	0.75568
0.61357	-5.46939	1.49672	-0.31918	-1.21538	0.65228	-0.00273	0.37999	0.67587	0.00883	0.75815
0.62802	-5.52618	1.50385	-0.32386	-1.22023	0.65097	-0.00267	0.39576	0.66647	0.00908	0.76010
0.64280	-5.58000	1.51185	-0.32850	-1.22716	0.64847	-0.00259	0.41596	0.65596	0.00944	0.76135
0.65794	-5.62931	1.52086	-0.33309	-1.23649	0.64702	-0.00251	0.44290	0.64388	0.00973	0.76294
0.67340	-5.67487	1.53044	-0.33750	-1.24748	0.64800	-0.00245	0.47718	0.63033	0.00974	0.76632
0.68927	-5.71886	1.54014	-0.34171	-1.25913	0.65189	-0.00240	0.51917	0.61542	0.00945	0.77162
0.70547	-5.76518	1.54967	-0.34569	-1.27026	0.65838	-0.00237	0.56721	0.59983	0.00904	0.77755
0.72207	-5.81923	1.55912	-0.34954	-1.27989	0.66674	-0.00235	0.61882	0.58415	0.00875	0.78242
0.73910	-5.88456	1.56859	-0.35333	-1.28738	0.67621	-0.00235	0.67141	0.56886	0.00878	0.78472
0.75649	-5.95634	1.57800	-0.35720	-1.29357	0.68691	-0.00237	0.72704	0.55358	0.00918	0.78381
0.77429	-6.02510	1.58726	-0.36129	-1.30034	0.69964	-0.00238	0.79252	0.53733	0.00990	0.77981
0.79246	-6.08271	1.59617	-0.36555	-1.30913	0.71487	-0.00240	0.87408	0.51969	0.01080	0.77334
0.81116	-6.12970	1.60485	-0.36985	-1.31995	0.73224	-0.00241	0.97406	0.50093	0.01179	0.76519
0.83022	-6.17014	1.61343	-0.37396	-1.33176	0.75066	-0.00242	1.08924	0.48214	0.01282	0.75611
0.84976	-6.21060	1.62235	-0.37775	-1.34352	0.76920	-0.00243	1.21508	0.46414	0.01391	0.74653
0.86972	-6.25836	1.63168	-0.38113	-1.35360	0.78637	-0.00244	1.34203	0.44789	0.01505	0.73695
0.89023	-6.32176	1.64132	-0.38420	-1.36011	0.80043	-0.00244	1.45762	0.43408	0.01624	0.72785
0.91116	-6.40282	1.65089	-0.38699	-1.36216	0.81015	-0.00245	1.55130	0.42308	0.01736	0.72026
0.93257	-6.49818	1.66027	-0.38958	-1.36036	0.81552	-0.00244	1.62131	0.41464	0.01828	0.71514
0.95456	-6.60327	1.66940	-0.39202	-1.35561	0.81721	-0.00244	1.66945	0.40837	0.01885	0.71335
0.97704	-6.71445	1.67826	-0.39431	-1.34859	0.81612	-0.00242	1.69755	0.40401	0.01898	0.71538
1.00000	-6.82989	1.68702	-0.39646	-1.33984	0.81313	-0.00241	1.70792	0.40132	0.01869	0.72104
1.02354	-6.94968	1.69593	-0.39844	-1.32966	0.80898	-0.00240	1.70184	0.40017	0.01808	0.72962
1.04767	-7.07331	1.70514	-0.40030	-1.31832	0.80421	-0.00238	1.68116	0.40041	0.01728	0.74012
1.07227	-7.20012	1.71458	-0.40208	-1.30590	0.79907	-0.00237	1.64672	0.40200	0.01642	0.75150
1.09745	-7.33058	1.72417	-0.40386	-1.29231	0.79350	-0.00237	1.59872	0.40495	0.01558	0.76313
1.12334	-7.46576	1.73384	-0.40570	-1.27729	0.78727	-0.00236	1.53634	0.40939	0.01480	0.77461
1.14982	-7.60470	1.74351	-0.40760	-1.26102	0.78036	-0.00236	1.46099	0.41536	0.01410	0.78556
1.17675	-7.74644	1.75317	-0.40953	-1.24376	0.77281	-0.00236	1.37503	0.42285	0.01350	0.79563
1.20453	-7.89227	1.76308	-0.41147	-1.22562	0.76456	-0.00236	1.28115	0.43181	0.01301	0.80462
1.23289	-8.03938	1.77323	-0.41340	-1.20722	0.75575	-0.00237	1.18503	0.44187	0.01265	0.81211
1.26183	-8.18499	1.78366	-0.41532	-1.18930	0.74668	-0.00237	1.09225	0.45252	0.01243	0.81800
1.29149	-8.32730	1.79442	-0.41725	-1.17237	0.73774	-0.00237	1.00660	0.46331	0.01233	0.82237
1.32188	-8.46465	1.80542	-0.41921	-1.15680	0.72933	-0.00237	0.93046	0.47377	0.01237	0.82527
1.35300	-8.59637	1.81656	-0.42122	-1.14272	0.72190	-0.00237	0.86451	0.48353	0.01254	0.82681
1.38485	-8.72224	1.82776	-0.42323	-1.13022	0.71586	-0.00237	0.80875	0.49231	0.01285	0.82719
1.41743	-8.84199	1.83898	-0.42523	-1.11945	0.71167	-0.00237	0.76288	0.49990	0.01327	0.82666
1.45075	-8.95579	1.85020	-0.42722	-1.11044	0.70964	-0.00237	0.72633	0.50609	0.01379	0.82554
1.48500	-9.06439	1.86144	-0.42917	-1.10315	0.70979	-0.00238	0.69895	0.51064	0.01436	0.82429
1.51999	-9.16709	1.87257	-0.43105	-1.09765	0.71209	-0.00239	0.68149	0.51317	0.01490	0.82349
1.55569	-9.26552	1.88345	-0.43280	-1.09352	0.71601	-0.00240	0.67329	0.51349	0.01534	0.82373
1.59236	-9.36226	1.89409	-0.43439	-1.09027	0.72070	-0.00241	0.67358	0.51157	0.01564	0.82537
1.62973	-9.45972	1.90439	-0.43580	-1.08730	0.72492	-0.00242	0.68058	0.50766	0.01581	0.82846
1.66806	-9.56115	1.91452	-0.43698	-1.08420	0.72801	-0.00242	0.69315	0.50192	0.01590	0.83278
1.70736	-9.66824	1.92458	-0.43794	-1.08079	0.72969	-0.00242	0.71096	0.49446	0.01596	0.83801
1.74764	-9.78090	1.93473	-0.43863	-1.07730	0.73018	-0.00242	0.73514	0.48520	0.01603	0.84390
1.78859	-9.89723	1.94496	-0.43899	-1.07409	0.72982	-0.00242	0.76725	0.47415	0.01612	0.85031
1.83083	-10.01573	1.95545	-0.43897	-1.07189	0.72935	-0.00242	0.81218	0.46072	0.01621	0.85734
1.87371	-10.13128	1.96605	-0.43858	-1.07145	0.72924	-0.00241	0.87444	0.44486	0.01630	0.86470
1.91791	-10.24232	1.97690	-0.43782	-1.07341	0.73004	-0.00239	0.96169	0.42612	0.01644	0.87215
1.96309	-10.34651	1.98791	-0.43663	-1.07798	0.73222	-0.00237	1.07937	0.40487	0.01665	0.87919

2.00924	-10.44362	1.99901	-0.43498	-1.08507	0.73609	-0.00235	1.23240	0.38167	0.01698	0.88556
2.05634	-10.53414	2.01017	-0.43286	-1.09440	0.74166	-0.00233	1.42469	0.35726	0.01743	0.89094
2.10482	-10.62007	2.02139	-0.43025	-1.10560	0.74917	-0.00231	1.66030	0.33221	0.01802	0.89512
2.15424	-10.70319	2.03251	-0.42715	-1.11780	0.75831	-0.00229	1.93504	0.30760	0.01874	0.89792
2.20507	-10.78811	2.04352	-0.42353	-1.13002	0.76836	-0.00228	2.24467	0.28391	0.01957	0.89940
2.25683	-10.87560	2.05422	-0.41943	-1.14160	0.77896	-0.00227	2.58093	0.26166	0.02045	0.89987
2.31000	-10.96714	2.06465	-0.41486	-1.15232	0.79024	-0.00227	2.94307	0.24070	0.02132	0.89965
2.36463	-11.06361	2.07481	-0.40989	-1.16185	0.80226	-0.00227	3.32571	0.22108	0.02217	0.89896
2.42014	-11.16569	2.08466	-0.40463	-1.16976	0.81437	-0.00227	3.71388	0.20317	0.02297	0.89786
2.47709	-11.27599	2.09444	-0.39906	-1.17589	0.82590	-0.00228	4.09872	0.18689	0.02376	0.89631
2.53550	-11.39492	2.10425	-0.39324	-1.18023	0.83647	-0.00230	4.46865	0.17230	0.02455	0.89440
2.59471	-11.52094	2.11403	-0.38728	-1.18276	0.84585	-0.00231	4.80864	0.15955	0.02528	0.89259
2.65604	-11.65569	2.12400	-0.38111	-1.18371	0.85430	-0.00232	5.11755	0.14838	0.02590	0.89136
2.71887	-11.79584	2.13405	-0.37484	-1.18338	0.86149	-0.00233	5.38888	0.13884	0.02635	0.89127
2.78242	-11.93895	2.14403	-0.36860	-1.18186	0.86699	-0.00234	5.61790	0.13084	0.02658	0.89261
2.84819	-12.08695	2.15412	-0.36226	-1.17934	0.87101	-0.00235	5.80981	0.12412	0.02662	0.89555
2.91545	-12.23696	2.16432	-0.35597	-1.17614	0.87394	-0.00236	5.96494	0.11862	0.02649	0.90006
2.98329	-12.38614	2.17436	-0.34981	-1.17240	0.87600	-0.00236	6.08193	0.11433	0.02622	0.90584
3.05344	-12.53744	2.18460	-0.34370	-1.16822	0.87755	-0.00237	6.16792	0.11098	0.02585	0.91270
3.12598	-12.68992	2.19489	-0.33762	-1.16379	0.87861	-0.00237	6.22484	0.10855	0.02541	0.92032
3.19898	-12.83879	2.20504	-0.33180	-1.15934	0.87937	-0.00238	6.25632	0.10690	0.02493	0.92809
3.27439	-12.98756	2.21523	-0.32603	-1.15492	0.87997	-0.00238	6.26635	0.10595	0.02443	0.93576
3.35121	-13.13367	2.22533	-0.32047	-1.15062	0.88049	-0.00238	6.25701	0.10564	0.02394	0.94304
3.43053	-13.27897	2.23544	-0.31496	-1.14649	0.88100	-0.00238	6.23022	0.10595	0.02343	0.95018
3.51124	-13.42097	2.24547	-0.30969	-1.14262	0.88158	-0.00238	6.18949	0.10678	0.02292	0.95734
3.59324	-13.55914	2.25523	-0.30455	-1.13909	0.88223	-0.00238	6.13607	0.10816	0.02239	0.96487
3.67782	-13.69682	2.26523	-0.29958	-1.13572	0.88303	-0.00238	6.07276	0.10991	0.02184	0.97320
3.76506	-13.83157	2.27483	-0.29461	-1.13274	0.88397	-0.00238	6.00095	0.11212	0.02125	0.98276
3.85356	-13.96542	2.28485	-0.28985	-1.12990	0.88505	-0.00238	5.92392	0.11454	0.02064	0.99323
3.94477	-14.09516	2.29418	-0.28510	-1.12745	0.88623	-0.00238	5.84273	0.11730	0.02000	1.00461
4.03714	-14.22519	2.30410	-0.28047	-1.12509	0.88752	-0.00238	5.75711	0.12023	0.01935	1.01636
4.13223	-14.35208	2.31356	-0.27592	-1.12301	0.88891	-0.00238	5.67121	0.12331	0.01870	1.02834
4.23012	-14.47831	2.32305	-0.27128	-1.12122	0.89045	-0.00238	5.58263	0.12664	0.01803	1.04024
4.32900	-14.60487	2.33316	-0.26684	-1.11943	0.89205	-0.00237	5.49520	0.12992	0.01740	1.05135
4.43066	-14.72516	2.34202	-0.26232	-1.11809	0.89373	-0.00237	5.41025	0.13335	0.01675	1.06196
4.53515	-14.85078	2.35215	-0.25776	-1.11670	0.89550	-0.00237	5.32223	0.13687	0.01612	1.07197
4.64253	-14.97491	2.36208	-0.25331	-1.11535	0.89726	-0.00237	5.23761	0.14030	0.01550	1.08133
4.75059	-15.09138	2.37073	-0.24879	-1.11444	0.89906	-0.00236	5.15670	0.14380	0.01489	1.09009
4.86145	-15.21645	2.38135	-0.24427	-1.11327	0.90089	-0.00236	5.07297	0.14731	0.01430	1.09827
4.97760	-15.33876	2.39114	-0.23977	-1.11226	0.90275	-0.00236	4.99463	0.15070	0.01372	1.10608
5.09424	-15.45362	2.39967	-0.23516	-1.11166	0.90463	-0.00235	4.92046	0.15413	0.01314	1.11342
5.21376	-15.57959	2.41073	-0.23055	-1.11073	0.90654	-0.00235	4.84344	0.15752	0.01259	1.12031
5.33618	-15.69947	2.42061	-0.22611	-1.10992	0.90842	-0.00234	4.77467	0.16065	0.01207	1.12681
5.46150	-15.81010	2.42850	-0.22150	-1.10962	0.91033	-0.00234	4.71112	0.16380	0.01155	1.13325
5.58971	-15.93364	2.43926	-0.21677	-1.10899	0.91229	-0.00234	4.64340	0.16698	0.01104	1.13956
5.72082	-16.05823	2.45043	-0.21229	-1.10820	0.91419	-0.00233	4.58049	0.16987	0.01057	1.14575
5.85823	-16.16658	2.45775	-0.20770	-1.10806	0.91611	-0.00233	4.52683	0.17270	0.01009	1.15234
5.99520	-16.28097	2.46679	-0.20296	-1.10786	0.91806	-0.00232	4.47092	0.17558	0.00962	1.15894
6.13497	-16.40956	2.47909	-0.19829	-1.10720	0.92000	-0.00231	4.41246	0.17835	0.00918	1.16550
6.28141	-16.52445	2.48820	-0.19389	-1.10683	0.92186	-0.00231	4.36406	0.18083	0.00877	1.17231
6.42674	-16.62278	2.49416	-0.18943	-1.10703	0.92367	-0.00230	4.32223	0.18326	0.00834	1.17924
6.57895	-16.74063	2.50401	-0.18460	-1.10691	0.92561	-0.00230	4.27337	0.18586	0.00791	1.18644
6.73401	-16.87279	2.51719	-0.17990	-1.10632	0.92754	-0.00229	4.22273	0.18833	0.00752	1.19355
6.89180	-16.97870	2.52492	-0.17576	-1.10618	0.92925	-0.00228	4.18554	0.19038	0.00716	1.20071
7.05716	-17.07287	2.52966	-0.17133	-1.10658	0.93098	-0.00228	4.15183	0.19251	0.00676	1.20829
7.22022	-17.18236	2.53830	-0.16672	-1.10666	0.93275	-0.00227	4.11322	0.19471	0.00638	1.21548
7.39098	-17.31529	2.55179	-0.16193	-1.10625	0.93466	-0.00226	4.06920	0.19694	0.00603	1.22248
7.56430	-17.43046	2.56177	-0.15786	-1.10592	0.93631	-0.00226	4.03514	0.19874	0.00573	1.22900
7.73994	-17.50859	2.56383	-0.15408	-1.10642	0.93771	-0.00225	4.01277	0.20034	0.00541	1.23533
7.92393	-17.60586	2.56960	-0.14971	-1.10677	0.93929	-0.00225	3.98371	0.20218	0.00507	1.24138
8.11030	-17.72120	2.57950	-0.14509	-1.10683	0.94100	-0.00224	3.95024	0.20410	0.00475	1.24686
8.29876	-17.85817	2.59443	-0.14048	-1.10638	0.94281	-0.00223	3.91333	0.20596	0.00448	1.25166
8.49618	-17.95939	2.60148	-0.13685	-1.10630	0.94421	-0.00222	3.88975	0.20734	0.00424	1.25627
8.69565	-18.02398	2.60065	-0.13347	-1.10695	0.94529	-0.00222	3.87484	0.20859	0.00396	1.26094
8.90472	-18.11803	2.60579	-0.12932	-1.10733	0.94667	-0.00221	3.85154	0.21014	0.00367	1.26555
9.11577	-18.22424	2.61383	-0.12498	-1.10755	0.94814	-0.00220	3.82589	0.21171	0.00340	1.26999
9.32836	-18.36300	2.62926	-0.12021	-1.10735	0.94996	-0.00219	3.79403	0.21341	0.00316	1.27421
9.54198	-18.48304	2.64121	-0.11651	-1.10701	0.95143	-0.00218	3.77040	0.21463	0.00298	1.27836
9.76563	-18.53533	2.63810	-0.11398	-1.10754	0.95212	-0.00218	3.76187	0.21548	0.00276	1.28339
10.00000	-18.60048	2.63724	-0.11071	-1.10812	0.95296	-0.00217	3.74880	0.21656	0.00251	1.28922

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Median stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 305 - 610 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.71622	3.38917	-0.04608	-1.69448	1.00430	-0.00091	1.18995	0.45431	-0.01965	0.34989
PGV	3.03642	1.98396	-0.12281	-2.72783	1.40608	-0.00118	7.28217	0.33154	-0.01909	0.47291
PGA	3.83806	1.64868	-0.07325	-3.21332	1.22181	-0.00133	7.85816	0.40755	-0.03615	0.77965
0.01000	4.65253	1.66782	-0.07152	-3.37534	1.23358	-0.00114	8.97286	0.39605	-0.02430	0.77704
0.01024	4.62978	1.67017	-0.07069	-3.37211	1.22682	-0.00113	8.91049	0.39779	-0.02441	0.77771
0.01048	4.61382	1.67252	-0.06987	-3.37014	1.22039	-0.00113	8.85779	0.39939	-0.02452	0.77840
0.01072	4.60493	1.67487	-0.06906	-3.36948	1.21430	-0.00112	8.81500	0.40086	-0.02465	0.77913
0.01097	4.60299	1.67723	-0.06825	-3.37013	1.20850	-0.00111	8.78184	0.40219	-0.02480	0.77990
0.01123	4.60618	1.67959	-0.06744	-3.37172	1.20292	-0.00110	8.75550	0.40342	-0.02495	0.78070
0.01150	4.61291	1.68195	-0.06663	-3.37396	1.19749	-0.00109	8.73363	0.40459	-0.02512	0.78154
0.01177	4.62338	1.68430	-0.06581	-3.37689	1.19224	-0.00108	8.71655	0.40568	-0.02529	0.78241
0.01205	4.63976	1.68668	-0.06498	-3.38091	1.18720	-0.00106	8.70750	0.40667	-0.02548	0.78332
0.01233	4.66269	1.68909	-0.06414	-3.38614	1.18239	-0.00105	8.70738	0.40754	-0.02567	0.78424
0.01262	4.69140	1.69152	-0.06330	-3.39245	1.17774	-0.00103	8.71498	0.40830	-0.02587	0.78516
0.01292	4.72401	1.69397	-0.06245	-3.39945	1.17316	-0.00102	8.72753	0.40900	-0.02608	0.78608
0.01322	4.75851	1.69642	-0.06160	-3.40678	1.16864	-0.00100	8.74193	0.40967	-0.02628	0.78699
0.01353	4.79596	1.69888	-0.06073	-3.41464	1.16418	-0.00098	8.75970	0.41029	-0.02649	0.78798
0.01385	4.84212	1.70141	-0.05986	-3.42411	1.15989	-0.00097	8.78916	0.41078	-0.02673	0.78913
0.01417	4.89869	1.70402	-0.05897	-3.43550	1.15579	-0.00095	8.83278	0.41109	-0.02700	0.79044
0.01451	4.96023	1.70668	-0.05807	-3.44779	1.15173	-0.00092	8.88246	0.41133	-0.02728	0.79191
0.01485	5.02284	1.70935	-0.05715	-3.46027	1.14771	-0.00090	8.93248	0.41158	-0.02759	0.79354
0.01520	5.08033	1.71196	-0.05623	-3.47176	1.14364	-0.00088	8.97449	0.41191	-0.02787	0.79512
0.01556	5.13258	1.71449	-0.05533	-3.48221	1.13947	-0.00086	9.00869	0.41233	-0.02813	0.79651
0.01592	5.18870	1.71704	-0.05443	-3.49333	1.13531	-0.00084	9.04771	0.41270	-0.02837	0.79792
0.01630	5.25703	1.71972	-0.05349	-3.50673	1.13128	-0.00082	9.10270	0.41289	-0.02863	0.79951
0.01668	5.33934	1.72259	-0.05251	-3.52274	1.12733	-0.00079	9.17568	0.41289	-0.02892	0.80132
0.01707	5.42756	1.72559	-0.05147	-3.53987	1.12331	-0.00077	9.25416	0.41287	-0.02921	0.80323
0.01748	5.51365	1.72864	-0.05038	-3.55661	1.11914	-0.00074	9.32713	0.41294	-0.02951	0.80519
0.01789	5.59344	1.73170	-0.04924	-3.57217	1.11474	-0.00072	9.38870	0.41316	-0.02981	0.80726
0.01831	5.66415	1.73473	-0.04806	-3.58609	1.11018	-0.00069	9.43432	0.41357	-0.03010	0.80923
0.01874	5.73184	1.73770	-0.04690	-3.59940	1.10562	-0.00067	9.47471	0.41404	-0.03032	0.81074
0.01918	5.80735	1.74063	-0.04576	-3.61399	1.10105	-0.00065	9.52742	0.41436	-0.03050	0.81205
0.01963	5.89043	1.74359	-0.04463	-3.62983	1.09620	-0.00062	9.59105	0.41458	-0.03072	0.81353
0.02009	5.97114	1.74657	-0.04345	-3.64513	1.09075	-0.00060	9.64948	0.41490	-0.03098	0.81533
0.02057	6.05132	1.74958	-0.04228	-3.66022	1.08486	-0.00057	9.70569	0.41528	-0.03129	0.81743
0.02105	6.13576	1.75261	-0.04114	-3.67598	1.07903	-0.00055	9.76802	0.41559	-0.03163	0.81972
0.02154	6.22597	1.75569	-0.04000	-3.69274	1.07339	-0.00052	9.83804	0.41583	-0.03200	0.82222
0.02205	6.32600	1.75886	-0.03887	-3.71122	1.06771	-0.00049	9.92094	0.41595	-0.03239	0.82493
0.02257	6.43731	1.76207	-0.03779	-3.73164	1.06224	-0.00046	10.02109	0.41588	-0.03279	0.82764
0.02310	6.55114	1.76518	-0.03674	-3.75233	1.05683	-0.00043	10.12722	0.41574	-0.03317	0.83030
0.02364	6.64649	1.76809	-0.03570	-3.76948	1.05088	-0.00041	10.20589	0.41591	-0.03356	0.83293
0.02420	6.70927	1.77082	-0.03466	-3.78062	1.04423	-0.00039	10.23358	0.41664	-0.03395	0.83559
0.02477	6.73919	1.77340	-0.03358	-3.78567	1.03688	-0.00038	10.21114	0.41795	-0.03431	0.83810
0.02535	6.75372	1.77600	-0.03242	-3.78786	1.02930	-0.00037	10.16540	0.41954	-0.03467	0.84051
0.02595	6.77700	1.77882	-0.03120	-3.79167	1.02179	-0.00037	10.12975	0.42107	-0.03502	0.84292
0.02656	6.81532	1.78181	-0.02995	-3.79816	1.01397	-0.00036	10.11298	0.42244	-0.03533	0.84509
0.02719	6.85335	1.78488	-0.02869	-3.80451	1.00550	-0.00034	10.09339	0.42390	-0.03552	0.84657
0.02783	6.86462	1.78786	-0.02739	-3.80605	0.99641	-0.00034	10.03256	0.42582	-0.03562	0.84746
0.02848	6.85469	1.79078	-0.02599	-3.80383	0.98720	-0.00034	9.93917	0.42812	-0.03576	0.84872
0.02915	6.84281	1.79360	-0.02454	-3.80110	0.97849	-0.00034	9.84675	0.43039	-0.03605	0.85112
0.02984	6.83267	1.79622	-0.02317	-3.79837	0.97067	-0.00034	9.76430	0.43251	-0.03648	0.85445
0.03054	6.83316	1.79887	-0.02193	-3.79748	0.96386	-0.00035	9.70040	0.43439	-0.03695	0.85824
0.03126	6.83637	1.80153	-0.02086	-3.79705	0.95730	-0.00035	9.64172	0.43619	-0.03741	0.86202
0.03199	6.83538	1.80415	-0.01988	-3.79576	0.95068	-0.00036	9.57934	0.43804	-0.03784	0.86561
0.03275	6.82325	1.80676	-0.01882	-3.79235	0.94419	-0.00037	9.50355	0.44007	-0.03825	0.86916
0.03352	6.80974	1.80920	-0.01768	-3.78822	0.93721	-0.00038	9.43197	0.44208	-0.03869	0.87292
0.03430	6.80091	1.81158	-0.01650	-3.78449	0.92925	-0.00040	9.37089	0.44403	-0.03912	0.87671
0.03511	6.80084	1.81422	-0.01537	-3.78235	0.92099	-0.00041	9.32086	0.44590	-0.03934	0.87923
0.03594	6.79220	1.81692	-0.01434	-3.77883	0.91301	-0.00042	9.25756	0.44793	-0.03937	0.88047
0.03678	6.74052	1.81916	-0.01332	-3.76748	0.90455	-0.00044	9.13637	0.45064	-0.03944	0.88196
0.03765	6.64902	1.82090	-0.01228	-3.74860	0.89490	-0.00046	8.96458	0.45401	-0.03968	0.88460
0.03854	6.53185	1.82258	-0.01123	-3.72500	0.88500	-0.00050	8.76279	0.45784	-0.04008	0.88838
0.03944	6.40547	1.82427	-0.01020	-3.69981	0.87555	-0.00054	8.55571	0.46178	-0.04051	0.89243
0.04037	6.29063	1.82576	-0.00923	-3.67656	0.86605	-0.00057	8.37060	0.46545	-0.04086	0.89584
0.04132	6.17519	1.82711	-0.00821	-3.65303	0.85504	-0.00060	8.18409	0.46925	-0.04110	0.89853
0.04229	6.04001	1.82846	-0.00698	-3.62603	0.84251	-0.00063	7.96784	0.47363	-0.04126	0.90054
0.04329	5.89339	1.82972	-0.00581	-3.59718	0.83035	-0.00066	7.73836	0.47827	-0.04125	0.90145
0.04431	5.73892	1.83065	-0.00488	-3.56690	0.81978	-0.00070	7.50530	0.48294	-0.04123	0.90226
0.04535	5.54737	1.83109	-0.00396	-3.52988	0.81075	-0.00075	7.23284	0.48824	-0.04132	0.90373

0.04642	5.32595	1.83110	-0.00287	-3.48730	0.80241	-0.00080	6.93396	0.49410	-0.04160	0.90641
0.04751	5.09674	1.83088	-0.00164	-3.44297	0.79411	-0.00087	6.63892	0.50011	-0.04195	0.90953
0.04863	4.84347	1.83062	-0.00019	-3.39410	0.78533	-0.00094	6.32660	0.50674	-0.04221	0.91184
0.04977	4.57152	1.83025	0.00133	-3.34159	0.77651	-0.00101	6.00467	0.51388	-0.04240	0.91356
0.05094	4.30985	1.82964	0.00265	-3.29070	0.76840	-0.00109	5.70389	0.52088	-0.04256	0.91505
0.05214	4.09867	1.82930	0.00359	-3.24903	0.76297	-0.00116	5.46325	0.52682	-0.04268	0.91634
0.05337	3.96835	1.82973	0.00409	-3.22231	0.76090	-0.00121	5.31285	0.53090	-0.04280	0.91781
0.05462	3.87903	1.83065	0.00447	-3.20306	0.75818	-0.00126	5.20740	0.53412	-0.04291	0.91924
0.05591	3.75990	1.83177	0.00514	-3.17858	0.75138	-0.00130	5.06997	0.53835	-0.04289	0.91972
0.05722	3.61614	1.83294	0.00601	-3.14992	0.74243	-0.00134	4.90833	0.54334	-0.04280	0.91968
0.05857	3.46170	1.83367	0.00690	-3.11936	0.73423	-0.00138	4.73908	0.54855	-0.04270	0.91970
0.05995	3.30083	1.83321	0.00750	-3.08701	0.72818	-0.00143	4.56954	0.55366	-0.04252	0.91950
0.06136	3.15347	1.83153	0.00757	-3.05618	0.72423	-0.00148	4.42202	0.55804	-0.04237	0.91985
0.06280	3.01226	1.82940	0.00741	-3.02612	0.72174	-0.00153	4.28764	0.56205	-0.04230	0.92084
0.06428	2.82646	1.82715	0.00765	-2.98801	0.71842	-0.00159	4.11257	0.56742	-0.04218	0.92148
0.06579	2.60616	1.82490	0.00819	-2.94366	0.71315	-0.00165	3.90741	0.57407	-0.04201	0.92176
0.06734	2.41155	1.82297	0.00869	-2.90377	0.70706	-0.00171	3.73392	0.58015	-0.04186	0.92221
0.06893	2.24247	1.82105	0.00921	-2.86800	0.70153	-0.00176	3.59246	0.58543	-0.04160	0.92199
0.07055	2.06467	1.81846	0.00971	-2.83018	0.69626	-0.00182	3.44665	0.59094	-0.04115	0.92038
0.07221	1.86107	1.81515	0.01016	-2.78736	0.68892	-0.00188	3.27818	0.59750	-0.04069	0.91854
0.07391	1.61628	1.81125	0.01078	-2.73665	0.67894	-0.00194	3.07719	0.60578	-0.04037	0.91761
0.07565	1.34109	1.80645	0.01153	-2.67980	0.66919	-0.00201	2.85737	0.61531	-0.04022	0.91778
0.07743	1.08666	1.80088	0.01185	-2.62639	0.66243	-0.00208	2.66202	0.62414	-0.04016	0.91832
0.07925	0.87390	1.79565	0.01184	-2.58100	0.65778	-0.00214	2.50416	0.63167	-0.03995	0.91800
0.08111	0.69418	1.79138	0.01186	-2.54236	0.65279	-0.00219	2.37105	0.63854	-0.03944	0.91576
0.08302	0.53590	1.78749	0.01176	-2.50809	0.64726	-0.00223	2.25229	0.64507	-0.03886	0.91291
0.08498	0.37435	1.78369	0.01166	-2.47345	0.64182	-0.00227	2.13375	0.65193	-0.03835	0.91038
0.08697	0.18225	1.78021	0.01202	-2.43385	0.63814	-0.00232	1.99978	0.66010	-0.03777	0.90746
0.08902	-0.04014	1.77585	0.01283	-2.38849	0.63649	-0.00239	1.85246	0.66953	-0.03727	0.90518
0.09112	-0.26017	1.76966	0.01360	-2.34218	0.63664	-0.00246	1.71496	0.67866	-0.03687	0.90387
0.09326	-0.43320	1.76190	0.01360	-2.30291	0.63808	-0.00252	1.61294	0.68547	-0.03654	0.90321
0.09545	-0.54214	1.75307	0.01258	-2.27421	0.64139	-0.00256	1.55244	0.68905	-0.03652	0.90474
0.09770	-0.59554	1.74388	0.01065	-2.25554	0.64848	-0.00260	1.52494	0.68973	-0.03667	0.90773
0.10000	-0.64346	1.73450	0.00838	-2.23823	0.65542	-0.00263	1.49724	0.69033	-0.03660	0.90957
0.10235	-0.72451	1.72494	0.00629	-2.21470	0.65830	-0.00266	1.44909	0.69288	-0.03647	0.91117
0.10476	-0.83676	1.71543	0.00441	-2.18486	0.65735	-0.00269	1.38584	0.69720	-0.03657	0.91466
0.10723	-0.95832	1.70702	0.00257	-2.15371	0.65444	-0.00272	1.32025	0.70233	-0.03680	0.91936
0.10975	-1.04667	1.70031	0.00031	-2.13024	0.65429	-0.00275	1.27662	0.70561	-0.03690	0.92297
0.11233	-1.08526	1.69512	-0.00261	-2.11758	0.66084	-0.00278	1.26605	0.70544	-0.03657	0.92319
0.11498	-1.11047	1.69124	-0.00568	-2.10839	0.67094	-0.00281	1.26726	0.70413	-0.03571	0.91949
0.11768	-1.15302	1.68802	-0.00842	-2.09626	0.67999	-0.00286	1.25914	0.70400	-0.03456	0.91374
0.12045	-1.21138	1.68422	-0.01100	-2.08063	0.68711	-0.00290	1.23992	0.70504	-0.03331	0.90731
0.12328	-1.27977	1.67848	-0.01377	-2.06108	0.68945	-0.00293	1.21194	0.70701	-0.03214	0.90150
0.12619	-1.35835	1.67105	-0.01682	-2.03774	0.68435	-0.00294	1.17443	0.71017	-0.03107	0.89633
0.12916	-1.42690	1.66346	-0.02005	-2.01619	0.67630	-0.00294	1.13994	0.71316	-0.02985	0.88988
0.13219	-1.47435	1.65677	-0.02313	-1.99961	0.67099	-0.00294	1.11763	0.71482	-0.02847	0.88189
0.13531	-1.51804	1.65114	-0.02584	-1.98515	0.66964	-0.00295	1.09970	0.71593	-0.02728	0.87448
0.13849	-1.57866	1.64593	-0.02829	-1.96873	0.67018	-0.00296	1.07242	0.71805	-0.02642	0.86858
0.14175	-1.66514	1.63991	-0.03076	-1.94725	0.66894	-0.00298	1.02906	0.72214	-0.02582	0.86394
0.14508	-1.77197	1.63215	-0.03355	-1.92044	0.66418	-0.00298	0.97491	0.72774	-0.02531	0.86001
0.14850	-1.88868	1.62371	-0.03652	-1.89111	0.65820	-0.00299	0.91865	0.73391	-0.02453	0.85466
0.15199	-2.00211	1.61516	-0.03937	-1.86236	0.65382	-0.00301	0.86677	0.73977	-0.02333	0.84667
0.15557	-2.09707	1.60661	-0.04219	-1.83684	0.65301	-0.00303	0.82581	0.74422	-0.02197	0.83760
0.15923	-2.16143	1.59855	-0.04546	-1.81709	0.65550	-0.00305	0.80011	0.74646	-0.02068	0.82943
0.16298	-2.19800	1.59119	-0.04923	-1.80287	0.65900	-0.00306	0.78691	0.74684	-0.01959	0.82294
0.16681	-2.21397	1.58547	-0.05324	-1.79384	0.66544	-0.00308	0.78472	0.74554	-0.01870	0.81774
0.17074	-2.20712	1.58139	-0.05750	-1.79070	0.67641	-0.00309	0.79502	0.74224	-0.01805	0.81383
0.17475	-2.17833	1.57615	-0.06240	-1.79077	0.68598	-0.00309	0.81463	0.73731	-0.01747	0.81049
0.17887	-2.14745	1.56806	-0.06768	-1.78880	0.69015	-0.00308	0.83417	0.73215	-0.01683	0.80697
0.18307	-2.13889	1.55881	-0.07272	-1.78201	0.69013	-0.00305	0.84420	0.72828	-0.01618	0.80365
0.18738	-2.15708	1.55022	-0.07735	-1.77112	0.68982	-0.00304	0.84419	0.72592	-0.01565	0.80159
0.19179	-2.17335	1.54344	-0.08181	-1.76226	0.69368	-0.00304	0.84775	0.72315	-0.01541	0.80169
0.19631	-2.17972	1.53870	-0.08621	-1.75727	0.69968	-0.00304	0.85595	0.71994	-0.01548	0.80370
0.20092	-2.19990	1.53522	-0.09039	-1.75119	0.70376	-0.00303	0.85555	0.71825	-0.01562	0.80600
0.20565	-2.25847	1.53203	-0.09433	-1.73827	0.70325	-0.00303	0.83562	0.71966	-0.01554	0.80666
0.21049	-2.33974	1.52873	-0.09841	-1.72082	0.69887	-0.00302	0.80568	0.72280	-0.01536	0.80650
0.21544	-2.40409	1.52577	-0.10290	-1.70677	0.69629	-0.00302	0.78653	0.72429	-0.01520	0.80655
0.22051	-2.44374	1.52182	-0.10768	-1.69608	0.69794	-0.00302	0.78134	0.72327	-0.01493	0.80612
0.22570	-2.48060	1.51499	-0.11251	-1.68242	0.69907	-0.00302	0.77664	0.72188	-0.01430	0.80364
0.23101	-2.54037	1.50644	-0.11708	-1.66239	0.69538	-0.00302	0.75805	0.72278	-0.01318	0.79819
0.23645	-2.62569	1.49907	-0.12131	-1.63915	0.68867	-0.00302	0.72565	0.72623	-0.01185	0.79127
0.24201	-2.71461	1.49377	-0.12544	-1.61808	0.68360	-0.00302	0.69237	0.73004	-0.01080	0.78621
0.24771	-2.77624	1.48948	-0.13001	-1.60346	0.68361	-0.00302	0.67494	0.73090	-0.01023	0.78446
0.25354	-2.79298	1.48577	-0.13527	-1.59764	0.69135	-0.00303	0.68315	0.72677	-0.00996	0.78478
0.25950	-2.78605	1.48229	-0.14083	-1.59619	0.70374	-0.00305	0.70662	0.71986	-0.00967	0.78510
0.26561	-2.80041	1.47875	-0.14607	-1.59055	0.71191	-0.00307	0.71946	0.71521	-0.00934	0.78521
0.27186	-2.86191	1.47594	-0.15070	-1.57687	0.70970	-0.00307	0.70547	0.71590	-0.00908	0.78574
0.27826	-2.96663	1.47449	-0.15471	-1.55664	0.69783	-0.00304	0.66869	0.72142	-0.00891	0.78684
0.28480	-3.07589	1.47455	-0.15852	-1.53725	0.68572	-0.00302	0.63317	0.72721	-0.00882	0.78833
0.29150	-3.14517	1.47569	-0.16289	-1.52658	0.68355	-0.00301	0.62192	0.72802	-0.00857	0.78869
0.29836	-3.15559	1.47685	-0.16819	-1.52717	0.69351	-0.00302	0.64148	0.72211	-0.00794	0.78634

0.30539	-3.12292	1.47674	-0.17410	-1.53451	0.71017	-0.00303	0.68235	0.71187	-0.00698	0.78136
0.31257	-3.08175	1.47516	-0.18002	-1.54151	0.72643	-0.00303	0.72634	0.70149	-0.00596	0.77535
0.31993	-3.07408	1.47316	-0.18534	-1.54111	0.73726	-0.00304	0.75047	0.69526	-0.00519	0.77086
0.32745	-3.13504	1.47214	-0.18951	-1.52827	0.74110	-0.00305	0.73543	0.69626	-0.00488	0.76984
0.33517	-3.27452	1.47299	-0.19240	-1.50269	0.73716	-0.00307	0.67750	0.70557	-0.00482	0.77117
0.34304	-3.45960	1.47571	-0.19463	-1.47138	0.72534	-0.00308	0.59865	0.72039	-0.00461	0.77190
0.35112	-3.63531	1.47922	-0.19719	-1.44403	0.70910	-0.00306	0.52968	0.73481	-0.00409	0.77043
0.35938	-3.76718	1.48172	-0.20054	-1.42501	0.69228	-0.00302	0.48489	0.74433	-0.00348	0.76763
0.36784	-3.85260	1.48292	-0.20452	-1.41358	0.67744	-0.00296	0.46363	0.74790	-0.00307	0.76548
0.37649	-3.90239	1.48390	-0.20880	-1.40802	0.66661	-0.00290	0.46020	0.74673	-0.00299	0.76535
0.38536	-3.93137	1.48568	-0.21354	-1.40639	0.66104	-0.00287	0.46809	0.74266	-0.00302	0.76625
0.39442	-3.96559	1.48858	-0.21866	-1.40447	0.65902	-0.00285	0.47584	0.73877	-0.00272	0.76551
0.40370	-4.02505	1.49224	-0.22377	-1.39867	0.65636	-0.00285	0.47394	0.73743	-0.00201	0.76262
0.41321	-4.10849	1.49559	-0.22872	-1.38859	0.64998	-0.00284	0.46135	0.73874	-0.00116	0.75932
0.42292	-4.20156	1.49714	-0.23380	-1.37550	0.63979	-0.00282	0.44333	0.74110	-0.00036	0.75663
0.43288	-4.28422	1.49650	-0.23948	-1.36275	0.62960	-0.00279	0.42866	0.74189	0.00031	0.75505
0.44307	-4.34534	1.49505	-0.24580	-1.35387	0.62430	-0.00275	0.42276	0.73959	0.00082	0.75475
0.45349	-4.38748	1.49455	-0.25251	-1.35028	0.62590	-0.00271	0.42539	0.73455	0.00114	0.75535
0.46417	-4.42139	1.49578	-0.25919	-1.35070	0.63215	-0.00267	0.43221	0.72841	0.00126	0.75672
0.47508	-4.45802	1.49866	-0.26552	-1.35276	0.63956	-0.00263	0.43850	0.72272	0.00126	0.75843
0.48626	-4.49873	1.50288	-0.27150	-1.35574	0.64755	-0.00260	0.44394	0.71749	0.00137	0.75943
0.49771	-4.53822	1.50800	-0.27728	-1.36011	0.65770	-0.00257	0.45185	0.71160	0.00164	0.75960
0.50942	-4.57391	1.51343	-0.28285	-1.36566	0.66956	-0.00256	0.46477	0.70421	0.00205	0.75928
0.52140	-4.61136	1.51832	-0.28795	-1.37019	0.68047	-0.00256	0.48110	0.69576	0.00247	0.75918
0.53367	-4.66086	1.52202	-0.29243	-1.37056	0.68910	-0.00257	0.49666	0.68740	0.00276	0.76046
0.54624	-4.71945	1.52434	-0.29659	-1.36678	0.69647	-0.00259	0.51214	0.67903	0.00271	0.76452
0.55910	-4.78464	1.52535	-0.30085	-1.35929	0.70148	-0.00261	0.52691	0.67094	0.00229	0.77156
0.57225	-4.86660	1.52588	-0.30541	-1.34698	0.70091	-0.00263	0.53407	0.66492	0.00182	0.77914
0.58569	-4.96464	1.52738	-0.31031	-1.33198	0.69481	-0.00263	0.53296	0.66128	0.00166	0.78474
0.59948	-5.07154	1.53099	-0.31543	-1.31760	0.68508	-0.00263	0.52710	0.65930	0.00191	0.78757
0.61357	-5.18832	1.53652	-0.32045	-1.30397	0.67199	-0.00261	0.51604	0.65892	0.00248	0.78805
0.62802	-5.32461	1.54298	-0.32508	-1.28843	0.65397	-0.00258	0.49511	0.66097	0.00333	0.78632
0.64280	-5.47069	1.54999	-0.32928	-1.27253	0.63370	-0.00254	0.46991	0.66413	0.00452	0.78226
0.65794	-5.60552	1.55804	-0.33331	-1.26086	0.61677	-0.00249	0.45165	0.66565	0.00604	0.77609
0.67340	-5.71535	1.56709	-0.33736	-1.25595	0.60685	-0.00244	0.44642	0.66376	0.00763	0.76943
0.68927	-5.79641	1.57685	-0.34142	-1.25808	0.60528	-0.00239	0.45590	0.65792	0.00884	0.76503
0.70547	-5.85064	1.58712	-0.34539	-1.26639	0.61238	-0.00235	0.47907	0.64874	0.00936	0.76474
0.72207	-5.89044	1.59768	-0.34929	-1.27796	0.62536	-0.00232	0.51108	0.63783	0.00931	0.76789
0.73910	-5.93142	1.60802	-0.35320	-1.28891	0.63930	-0.00230	0.54479	0.62699	0.00910	0.77167
0.75649	-5.98081	1.61755	-0.35723	-1.29705	0.65142	-0.00228	0.57711	0.61661	0.00904	0.77379
0.77429	-6.04048	1.62602	-0.36138	-1.30165	0.66188	-0.00226	0.60733	0.60663	0.00915	0.77397
0.79246	-6.10929	1.63338	-0.36555	-1.30278	0.67190	-0.00226	0.63526	0.59706	0.00924	0.77329
0.81116	-6.18234	1.63996	-0.36982	-1.30173	0.68293	-0.00228	0.66425	0.58731	0.00926	0.77249
0.83022	-6.25294	1.64592	-0.37426	-1.29991	0.69538	-0.00232	0.69907	0.57666	0.00933	0.77118
0.84976	-6.32016	1.65117	-0.37893	-1.29747	0.70832	-0.00236	0.74271	0.56465	0.00948	0.76932
0.86972	-6.38777	1.65551	-0.38365	-1.29347	0.71985	-0.00241	0.79286	0.55181	0.00966	0.76759
0.89023	-6.46158	1.65936	-0.38817	-1.28751	0.72927	-0.00245	0.84454	0.53905	0.00982	0.76640
0.91116	-6.54543	1.66334	-0.39216	-1.27983	0.73629	-0.00248	0.89125	0.52740	0.01006	0.76549
0.93257	-6.64281	1.66788	-0.39551	-1.27046	0.74026	-0.00251	0.92745	0.51752	0.01045	0.76429
0.95456	-6.75612	1.67308	-0.39829	-1.25910	0.74015	-0.00252	0.94862	0.50977	0.01105	0.76239
0.97704	-6.89039	1.67894	-0.40055	-1.24455	0.73421	-0.00251	0.94636	0.50507	0.01187	0.75967
1.00000	-7.04681	1.68551	-0.40237	-1.22649	0.72137	-0.00249	0.91770	0.50387	0.01279	0.75692
1.02354	-7.21754	1.69296	-0.40388	-1.20665	0.70267	-0.00245	0.87204	0.50522	0.01364	0.75510
1.04767	-7.39126	1.70149	-0.40522	-1.18757	0.68004	-0.00240	0.82263	0.50767	0.01435	0.75461
1.07227	-7.56229	1.71116	-0.40639	-1.17059	0.65513	-0.00233	0.77651	0.51029	0.01488	0.75558
1.09745	-7.72902	1.72204	-0.40739	-1.15629	0.62960	-0.00226	0.73740	0.51237	0.01528	0.75745
1.12334	-7.89288	1.73403	-0.40821	-1.14453	0.60459	-0.00218	0.70597	0.51348	0.01574	0.75893
1.14982	-8.05187	1.74668	-0.40893	-1.13528	0.58124	-0.00210	0.68465	0.51284	0.01635	0.75919
1.17675	-8.20400	1.75936	-0.40962	-1.12814	0.56026	-0.00202	0.67512	0.50977	0.01706	0.75856
1.20453	-8.34582	1.77189	-0.41034	-1.12380	0.54358	-0.00195	0.68267	0.50303	0.01779	0.75756
1.23289	-8.47120	1.78404	-0.41102	-1.12317	0.53349	-0.00189	0.71300	0.49182	0.01847	0.75646
1.26183	-8.57668	1.79589	-0.41166	-1.12698	0.53119	-0.00185	0.77216	0.47585	0.01907	0.75551
1.29149	-8.66501	1.80765	-0.41218	-1.13478	0.53649	-0.00183	0.86336	0.45582	0.01959	0.75471
1.32188	-8.74229	1.81945	-0.41241	-1.14524	0.54807	-0.00182	0.98673	0.43312	0.02006	0.75397
1.35300	-8.81474	1.83149	-0.41223	-1.15706	0.56397	-0.00183	1.13999	0.40936	0.02050	0.75333
1.38485	-8.88557	1.84396	-0.41153	-1.16966	0.58261	-0.00184	1.32060	0.38578	0.02091	0.75316
1.41743	-8.95653	1.85682	-0.41034	-1.18249	0.60234	-0.00186	1.52490	0.36327	0.02126	0.75400
1.45075	-9.02726	1.86986	-0.40880	-1.19532	0.62226	-0.00188	1.75097	0.34212	0.02158	0.75579
1.48500	-9.10178	1.88299	-0.40709	-1.20715	0.64156	-0.00190	1.99096	0.32267	0.02192	0.75795
1.51999	-9.18422	1.89600	-0.40534	-1.21671	0.65954	-0.00192	2.22856	0.30550	0.02232	0.76031
1.55569	-9.27636	1.90893	-0.40363	-1.22355	0.67601	-0.00194	2.44974	0.29085	0.02267	0.76350
1.59236	-9.37776	1.92193	-0.40199	-1.22795	0.69108	-0.00196	2.64782	0.27860	0.02289	0.76819
1.62973	-9.48482	1.93495	-0.40049	-1.23045	0.70475	-0.00198	2.82013	0.26855	0.02293	0.77456
1.66806	-9.59644	1.94800	-0.39916	-1.23131	0.71703	-0.00200	2.96787	0.26033	0.02275	0.78275
1.70736	-9.71287	1.96100	-0.39805	-1.23033	0.72770	-0.00202	3.08667	0.25384	0.02232	0.79300
1.74764	-9.83465	1.97397	-0.39717	-1.22741	0.73671	-0.00203	3.17036	0.24911	0.02161	0.80536
1.78859	-9.96076	1.98685	-0.39652	-1.22267	0.74417	-0.00205	3.21403	0.24622	0.02069	0.81947
1.83083	-10.09265	1.99983	-0.39612	-1.21617	0.75039	-0.00207	3.21676	0.24507	0.01957	0.83522
1.87371	-10.22623	2.01263	-0.39603	-1.20840	0.75557	-0.00208	3.18389	0.24548	0.01833	0.85200
1.91791	-10.36175	2.02539	-0.39623	-1.19963	0.76009	-0.00210	3.12237	0.24717	0.01700	0.86956
1.96309	-10.49638	2.03795	-0.39672	-1.19029	0.76421	-0.00212	3.04097	0.24983	0.01567	0.88709

2.00924	-10.62843	2.05028	-0.39748	-1.18081	0.76836	-0.00214	2.94887	0.25313	0.01442	0.90386
2.05634	-10.75814	2.06238	-0.39846	-1.17123	0.77268	-0.00216	2.85020	0.25686	0.01331	0.91914
2.10482	-10.88708	2.07437	-0.39961	-1.16148	0.77724	-0.00218	2.74693	0.26090	0.01239	0.93250
2.15424	-11.01310	2.08619	-0.40086	-1.15197	0.78221	-0.00220	2.64573	0.26498	0.01169	0.94354
2.20507	-11.13691	2.09795	-0.40216	-1.14280	0.78760	-0.00222	2.54902	0.26898	0.01118	0.95243
2.25683	-11.25636	2.10955	-0.40345	-1.13435	0.79336	-0.00225	2.46166	0.27263	0.01082	0.95946
2.31000	-11.37293	2.12109	-0.40470	-1.12655	0.79913	-0.00227	2.38346	0.27587	0.01057	0.96504
2.36463	-11.48664	2.13257	-0.40587	-1.11950	0.80451	-0.00229	2.31705	0.27847	0.01043	0.96935
2.42014	-11.59673	2.14391	-0.40688	-1.11336	0.80908	-0.00231	2.26579	0.28018	0.01042	0.97236
2.47709	-11.70690	2.15519	-0.40765	-1.10766	0.81227	-0.00232	2.22838	0.28086	0.01056	0.97399
2.53550	-11.81803	2.16641	-0.40810	-1.10234	0.81402	-0.00232	2.20721	0.28022	0.01087	0.97433
2.59471	-11.92807	2.17741	-0.40818	-1.09775	0.81502	-0.00231	2.20639	0.27803	0.01135	0.97364
2.65604	-12.04034	2.18847	-0.40779	-1.09378	0.81551	-0.00230	2.22633	0.27418	0.01198	0.97216
2.71887	-12.15510	2.19945	-0.40692	-1.09016	0.81505	-0.00229	2.26305	0.26895	0.01273	0.97034
2.78242	-12.27302	2.21032	-0.40556	-1.08657	0.81323	-0.00227	2.31010	0.26280	0.01356	0.96860
2.84819	-12.39790	2.22136	-0.40362	-1.08283	0.81000	-0.00225	2.36457	0.25590	0.01448	0.96732
2.91545	-12.52644	2.23248	-0.40117	-1.07924	0.80563	-0.00222	2.42763	0.24838	0.01546	0.96686
2.98329	-12.65731	2.24362	-0.39821	-1.07600	0.80046	-0.00219	2.49730	0.24061	0.01647	0.96724
3.05344	-12.79369	2.25505	-0.39476	-1.07277	0.79441	-0.00216	2.57103	0.23267	0.01750	0.96862
3.12598	-12.93749	2.26682	-0.39071	-1.06943	0.78783	-0.00213	2.64713	0.22469	0.01856	0.97063
3.19898	-13.08376	2.27848	-0.38629	-1.06591	0.78108	-0.00209	2.71955	0.21712	0.01957	0.97313
3.27439	-13.23753	2.29036	-0.38131	-1.06206	0.77413	-0.00206	2.78947	0.20982	0.02058	0.97559
3.35121	-13.39388	2.30213	-0.37594	-1.05815	0.76732	-0.00204	2.85824	0.20283	0.02154	0.97788
3.43053	-13.55419	2.31402	-0.36999	-1.05454	0.76103	-0.00201	2.93378	0.19587	0.02248	0.97981
3.51124	-13.71025	2.32559	-0.36375	-1.05193	0.75607	-0.00199	3.02531	0.18877	0.02336	0.98177
3.59324	-13.86177	2.33685	-0.35714	-1.05063	0.75275	-0.00196	3.13738	0.18155	0.02418	0.98364
3.67782	-14.00736	2.34784	-0.35036	-1.05065	0.75155	-0.00195	3.27103	0.17421	0.02488	0.98633
3.76506	-14.14940	2.35840	-0.34324	-1.05179	0.75259	-0.00194	3.42182	0.16717	0.02545	0.98993
3.85356	-14.28669	2.36870	-0.33623	-1.05325	0.75511	-0.00193	3.57561	0.16067	0.02583	0.99499
3.94477	-14.42264	2.37823	-0.32916	-1.05466	0.75878	-0.00193	3.71831	0.15539	0.02598	1.00132
4.03714	-14.55804	2.38771	-0.32224	-1.05554	0.76280	-0.00193	3.84351	0.15108	0.02594	1.00875
4.13223	-14.69333	2.39646	-0.31553	-1.05560	0.76634	-0.00194	3.93999	0.14810	0.02568	1.01723
4.23012	-14.83167	2.40494	-0.30880	-1.05479	0.76924	-0.00195	4.00646	0.14638	0.02521	1.02631
4.32900	-14.96809	2.41346	-0.30245	-1.05344	0.77175	-0.00196	4.05180	0.14531	0.02462	1.03550
4.43066	-15.10181	2.42092	-0.29623	-1.05188	0.77383	-0.00196	4.07151	0.14545	0.02390	1.04463
4.53515	-15.23699	2.42902	-0.29010	-1.05020	0.77605	-0.00197	4.07714	0.14609	0.02307	1.05380
4.64253	-15.36720	2.43683	-0.28430	-1.04892	0.77848	-0.00198	4.07476	0.14719	0.02219	1.06283
4.75059	-15.48918	2.44367	-0.27864	-1.04839	0.78106	-0.00198	4.06083	0.14916	0.02126	1.07156
4.86145	-15.61306	2.45186	-0.27309	-1.04813	0.78418	-0.00198	4.04304	0.15127	0.02029	1.08019
4.97760	-15.73305	2.45950	-0.26769	-1.04837	0.78740	-0.00199	4.02066	0.15379	0.01932	1.08863
5.09424	-15.84560	2.46626	-0.26235	-1.04925	0.79053	-0.00199	3.99039	0.15697	0.01834	1.09675
5.21376	-15.96448	2.47491	-0.25702	-1.04993	0.79384	-0.00199	3.95629	0.16009	0.01736	1.10469
5.33618	-16.07803	2.48277	-0.25198	-1.05072	0.79705	-0.00199	3.92189	0.16321	0.01645	1.11224
5.46150	-16.18364	2.48915	-0.24692	-1.05215	0.80024	-0.00198	3.88526	0.16678	0.01554	1.11973
5.58971	-16.29818	2.49776	-0.24173	-1.05327	0.80355	-0.00198	3.84487	0.17028	0.01463	1.12730
5.72082	-16.41325	2.50679	-0.23679	-1.05412	0.80677	-0.00198	3.80654	0.17345	0.01380	1.13472
5.85823	-16.51493	2.51281	-0.23194	-1.05580	0.80994	-0.00198	3.77299	0.17684	0.01300	1.14236
5.99520	-16.62046	2.52018	-0.22696	-1.05735	0.81312	-0.00197	3.73694	0.18021	0.01221	1.15008
6.13497	-16.73820	2.53026	-0.22194	-1.05818	0.81624	-0.00197	3.69783	0.18331	0.01146	1.15782
6.28141	-16.84473	2.53784	-0.21728	-1.05935	0.81925	-0.00197	3.66637	0.18617	0.01079	1.16557
6.42674	-16.93587	2.54276	-0.21280	-1.06118	0.82216	-0.00196	3.64063	0.18904	0.01015	1.17327
6.57895	-17.04401	2.55092	-0.20784	-1.06256	0.82520	-0.00196	3.60872	0.19197	0.00950	1.18135
6.73401	-17.16579	2.56201	-0.20281	-1.06316	0.82816	-0.00195	3.57340	0.19466	0.00889	1.18937
6.89180	-17.26438	2.56856	-0.19855	-1.06430	0.83089	-0.00195	3.54988	0.19696	0.00837	1.19715
7.05716	-17.35130	2.57246	-0.19425	-1.06621	0.83371	-0.00195	3.53127	0.19935	0.00784	1.20523
7.22022	-17.45214	2.57972	-0.18964	-1.06752	0.83650	-0.00194	3.50694	0.20172	0.00733	1.21299
7.39098	-17.57566	2.59130	-0.18455	-1.06806	0.83933	-0.00193	3.47565	0.20407	0.00683	1.22065
7.56430	-17.68376	2.59998	-0.18026	-1.06866	0.84188	-0.00193	3.45240	0.20599	0.00641	1.22767
7.73994	-17.75588	2.60158	-0.17677	-1.07046	0.84433	-0.00193	3.44284	0.20771	0.00602	1.23424
7.92393	-17.84547	2.60641	-0.17259	-1.07201	0.84696	-0.00192	3.42705	0.20962	0.00560	1.24062
8.11030	-17.95271	2.61496	-0.16793	-1.07302	0.84961	-0.00192	3.40534	0.21159	0.00519	1.24650
8.29876	-18.08234	2.62820	-0.16288	-1.07316	0.85218	-0.00191	3.37681	0.21352	0.00482	1.25179
8.49618	-18.17809	2.63444	-0.15918	-1.07392	0.85445	-0.00190	3.36211	0.21497	0.00451	1.25669
8.69565	-18.23656	2.63341	-0.15634	-1.07584	0.85665	-0.00190	3.35990	0.21620	0.00420	1.26147
8.90472	-18.32336	2.63776	-0.15244	-1.07728	0.85909	-0.00189	3.34837	0.21773	0.00386	1.26630
9.11577	-18.42246	2.64479	-0.14819	-1.07838	0.86153	-0.00189	3.33295	0.21931	0.00353	1.27102
9.32836	-18.55505	2.65874	-0.14295	-1.07863	0.86403	-0.00188	3.30708	0.22109	0.00320	1.27566
9.54198	-18.67105	2.66970	-0.13882	-1.07870	0.86613	-0.00187	3.28760	0.22243	0.00295	1.28014
9.76563	-18.71792	2.66659	-0.13691	-1.08037	0.86790	-0.00187	3.29073	0.22316	0.00272	1.28518
10.00000	-18.77617	2.66546	-0.13427	-1.08213	0.86995	-0.00187	3.29031	0.22412	0.00245	1.29108

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Median stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 610 - 1220 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.74378	3.38707	-0.04672	-1.68648	1.02789	-0.00103	1.09350	0.46357	-0.01627	0.32580
PGV	3.70118	2.02551	-0.10452	-2.92274	1.60459	-0.00132	8.88564	0.30575	-0.01692	0.45465
PGA	4.08956	1.64857	-0.07850	-3.28089	1.33669	-0.00144	8.18375	0.39761	-0.03630	0.78100
0.01000	4.92392	1.66880	-0.07660	-3.44792	1.34676	-0.00123	9.30679	0.38691	-0.02444	0.77571
0.01024	4.91261	1.67128	-0.07579	-3.44693	1.34001	-0.00122	9.26028	0.38843	-0.02458	0.77663
0.01048	4.90644	1.67375	-0.07498	-3.44689	1.33351	-0.00121	9.22080	0.38984	-0.02472	0.77756
0.01072	4.90571	1.67621	-0.07417	-3.44785	1.32722	-0.00120	9.18861	0.39115	-0.02488	0.77851
0.01097	4.90921	1.67866	-0.07336	-3.44959	1.32107	-0.00119	9.16186	0.39239	-0.02505	0.77949
0.01123	4.91766	1.68112	-0.07254	-3.45224	1.31511	-0.00117	9.14173	0.39354	-0.02523	0.78050
0.01150	4.92950	1.68356	-0.07172	-3.45551	1.30930	-0.00116	9.12592	0.39462	-0.02542	0.78156
0.01177	4.94467	1.68600	-0.07089	-3.45939	1.30361	-0.00114	9.11421	0.39565	-0.02563	0.78266
0.01205	4.96585	1.68848	-0.07006	-3.46438	1.29808	-0.00113	9.11034	0.39658	-0.02584	0.78377
0.01233	4.99271	1.69099	-0.06923	-3.47043	1.29266	-0.00111	9.11362	0.39742	-0.02605	0.78486
0.01262	5.02019	1.69349	-0.06838	-3.47658	1.28718	-0.00109	9.11639	0.39827	-0.02627	0.78597
0.01292	5.04846	1.69599	-0.06751	-3.48286	1.28166	-0.00107	9.11904	0.39912	-0.02651	0.78718
0.01322	5.07965	1.69850	-0.06661	-3.48966	1.27620	-0.00106	9.12508	0.39993	-0.02677	0.78851
0.01353	5.11141	1.70102	-0.06569	-3.49657	1.27078	-0.00104	9.13087	0.40074	-0.02704	0.78988
0.01385	5.14392	1.70355	-0.06475	-3.50361	1.26539	-0.00102	9.13623	0.40155	-0.02730	0.79124
0.01417	5.18381	1.70615	-0.06380	-3.51204	1.26013	-0.00100	9.15105	0.40226	-0.02757	0.79263
0.01451	5.23108	1.70882	-0.06285	-3.52183	1.25500	-0.00098	9.17551	0.40286	-0.02786	0.79414
0.01485	5.28194	1.71151	-0.06187	-3.53225	1.24982	-0.00095	9.20398	0.40342	-0.02816	0.79579
0.01520	5.33647	1.71425	-0.06088	-3.54331	1.24453	-0.00093	9.23630	0.40395	-0.02847	0.79756
0.01556	5.39494	1.71703	-0.05988	-3.55506	1.23921	-0.00091	9.27307	0.40443	-0.02879	0.79947
0.01592	5.45438	1.71978	-0.05888	-3.56694	1.23389	-0.00088	9.31068	0.40490	-0.02912	0.80150
0.01630	5.50785	1.72245	-0.05786	-3.57763	1.22853	-0.00086	9.33948	0.40547	-0.02946	0.80365
0.01668	5.55877	1.72508	-0.05684	-3.58781	1.22335	-0.00084	9.36448	0.40607	-0.02979	0.80582
0.01707	5.61844	1.72778	-0.05584	-3.59958	1.21846	-0.00082	9.40210	0.40652	-0.03010	0.80789
0.01748	5.69146	1.73057	-0.05487	-3.61376	1.21362	-0.00079	9.45868	0.40677	-0.03042	0.81001
0.01789	5.77430	1.73349	-0.05387	-3.62975	1.20861	-0.00076	9.52718	0.40690	-0.03074	0.81224
0.01831	5.86771	1.73660	-0.05283	-3.64774	1.20352	-0.00073	9.60743	0.40695	-0.03107	0.81455
0.01874	5.96286	1.73979	-0.05173	-3.66602	1.19825	-0.00070	9.68778	0.40703	-0.03142	0.81696
0.01918	6.04777	1.74289	-0.05056	-3.68229	1.19258	-0.00067	9.75156	0.40731	-0.03176	0.81933
0.01963	6.12690	1.74589	-0.04940	-3.69734	1.18665	-0.00064	9.80648	0.40770	-0.03207	0.82150
0.02009	6.20190	1.74877	-0.04829	-3.71150	1.18074	-0.00062	9.85614	0.40813	-0.03236	0.82356
0.02057	6.27531	1.75164	-0.04721	-3.72529	1.17481	-0.00059	9.90319	0.40859	-0.03270	0.82591
0.02105	6.35100	1.75464	-0.04609	-3.73952	1.16871	-0.00057	9.95038	0.40909	-0.03310	0.82873
0.02154	6.43225	1.75787	-0.04484	-3.75489	1.16259	-0.00054	10.00105	0.40959	-0.03358	0.83202
0.02205	6.52445	1.76128	-0.04352	-3.77227	1.15635	-0.00051	10.06502	0.40999	-0.03408	0.83551
0.02257	6.61862	1.76462	-0.04221	-3.78976	1.14983	-0.00049	10.13298	0.41035	-0.03452	0.83851
0.02310	6.70681	1.76783	-0.04092	-3.80594	1.14330	-0.00046	10.19424	0.41079	-0.03487	0.84096
0.02364	6.78709	1.77103	-0.03962	-3.82064	1.13702	-0.00044	10.24264	0.41136	-0.03522	0.84346
0.02420	6.85919	1.77425	-0.03835	-3.83377	1.13077	-0.00042	10.27647	0.41210	-0.03559	0.84607
0.02477	6.89643	1.77723	-0.03707	-3.84037	1.12349	-0.00041	10.25703	0.41344	-0.03596	0.84878
0.02535	6.90193	1.77999	-0.03579	-3.84101	1.11533	-0.00040	10.19053	0.41531	-0.03637	0.85183
0.02595	6.90654	1.78272	-0.03451	-3.84144	1.10717	-0.00040	10.12319	0.41719	-0.03682	0.85502
0.02656	6.92539	1.78550	-0.03322	-3.84435	1.09935	-0.00040	10.07925	0.41882	-0.03726	0.85818
0.02719	6.95043	1.78827	-0.03189	-3.84814	1.09154	-0.00039	10.04842	0.42031	-0.03774	0.86165
0.02783	6.96577	1.79083	-0.03057	-3.84986	1.08308	-0.00039	10.00737	0.42193	-0.03824	0.86528
0.02848	6.96204	1.79304	-0.02934	-3.84782	1.07335	-0.00038	9.94010	0.42383	-0.03867	0.86849
0.02915	6.94190	1.79499	-0.02823	-3.84255	1.06197	-0.00038	9.84744	0.42607	-0.03899	0.87099
0.02984	6.91869	1.79696	-0.02720	-3.83658	1.05005	-0.00038	9.74942	0.42842	-0.03925	0.87327
0.03054	6.89170	1.79911	-0.02613	-3.83013	1.03914	-0.00038	9.64674	0.43082	-0.03945	0.87529
0.03126	6.85116	1.80129	-0.02498	-3.82160	1.03040	-0.00039	9.52697	0.43335	-0.03954	0.87664
0.03199	6.82183	1.80350	-0.02385	-3.81525	1.02433	-0.00041	9.42570	0.43557	-0.03957	0.87774
0.03275	6.82105	1.80596	-0.02277	-3.81391	1.01963	-0.00042	9.36610	0.43732	-0.03976	0.88006
0.03352	6.82152	1.80855	-0.02162	-3.81256	1.01391	-0.00043	9.30869	0.43913	-0.04023	0.88432
0.03430	6.79373	1.81089	-0.02039	-3.80570	1.00626	-0.00045	9.21634	0.44143	-0.04081	0.88942
0.03511	6.73855	1.81293	-0.01916	-3.79361	0.99712	-0.00046	9.08950	0.44420	-0.04134	0.89425
0.03594	6.65221	1.81472	-0.01796	-3.77590	0.98736	-0.00049	8.92187	0.44749	-0.04178	0.89855
0.03678	6.55299	1.81629	-0.01692	-3.75586	0.97789	-0.00052	8.74167	0.45093	-0.04210	0.90207
0.03765	6.46931	1.81766	-0.01611	-3.73825	0.96862	-0.00054	8.59014	0.45400	-0.04228	0.90454
0.03854	6.41282	1.81912	-0.01540	-3.72542	0.96011	-0.00056	8.47968	0.45654	-0.04225	0.90547
0.03944	6.36121	1.82080	-0.01464	-3.71377	0.95281	-0.00058	8.37555	0.45898	-0.04206	0.90531
0.04037	6.25755	1.82195	-0.01377	-3.69247	0.94500	-0.00062	8.20752	0.46230	-0.04190	0.90529
0.04132	6.10672	1.82235	-0.01288	-3.66180	0.93574	-0.00066	7.98904	0.46642	-0.04200	0.90714
0.04229	5.95260	1.82261	-0.01202	-3.63024	0.92630	-0.00071	7.77535	0.47055	-0.04229	0.91021
0.04329	5.79855	1.82330	-0.01102	-3.59937	0.91760	-0.00076	7.55966	0.47481	-0.04251	0.91270
0.04431	5.63722	1.82458	-0.00978	-3.56815	0.91008	-0.00081	7.32744	0.47945	-0.04256	0.91399
0.04535	5.47045	1.82600	-0.00843	-3.53639	0.90278	-0.00085	7.08687	0.48434	-0.04246	0.91412

0.04642	5.31024	1.82716	-0.00713	-3.50552	0.89509	-0.00090	6.86135	0.48910	-0.04229	0.91368
0.04751	5.17252	1.82831	-0.00606	-3.47817	0.88710	-0.00094	6.67092	0.49342	-0.04217	0.91349
0.04863	5.03499	1.82932	-0.00525	-3.45038	0.87956	-0.00099	6.48774	0.49770	-0.04218	0.91416
0.04977	4.89209	1.82988	-0.00467	-3.42110	0.87401	-0.00104	6.30887	0.50188	-0.04225	0.91522
0.05094	4.77634	1.83005	-0.00439	-3.39622	0.87099	-0.00110	6.17288	0.50517	-0.04227	0.91591
0.05214	4.68849	1.82938	-0.00440	-3.37594	0.87050	-0.00115	6.07646	0.50749	-0.04223	0.91611
0.05337	4.58854	1.82767	-0.00451	-3.35314	0.87068	-0.00120	5.96850	0.50986	-0.04211	0.91566
0.05462	4.41875	1.82522	-0.00438	-3.31737	0.86729	-0.00126	5.78212	0.51394	-0.04188	0.91450
0.05591	4.15389	1.82249	-0.00359	-3.26430	0.85903	-0.00134	5.49152	0.52062	-0.04164	0.91323
0.05722	3.85212	1.81991	-0.00227	-3.20476	0.84947	-0.00142	5.16803	0.52851	-0.04149	0.91269
0.05857	3.58493	1.81762	-0.00088	-3.15178	0.84238	-0.00150	4.89101	0.53565	-0.04155	0.91373
0.05995	3.37264	1.81562	0.00024	-3.10892	0.83848	-0.00157	4.67872	0.54139	-0.04169	0.91550
0.06136	3.20774	1.81424	0.00087	-3.07482	0.83568	-0.00163	4.51917	0.54600	-0.04157	0.91583
0.06280	3.08367	1.81401	0.00104	-3.04861	0.83271	-0.00168	4.40108	0.54978	-0.04116	0.91440
0.06428	2.97047	1.81459	0.00112	-3.02500	0.82944	-0.00173	4.29192	0.55349	-0.04058	0.91196
0.06579	2.84567	1.81479	0.00122	-2.99940	0.82646	-0.00178	4.17053	0.55753	-0.03988	0.90860
0.06734	2.70285	1.81357	0.00123	-2.96962	0.82428	-0.00183	4.03857	0.56174	-0.03917	0.90510
0.06893	2.54421	1.81129	0.00109	-2.93612	0.82168	-0.00189	3.89727	0.56624	-0.03852	0.90196
0.07055	2.35193	1.80874	0.00114	-2.89657	0.81680	-0.00195	3.72404	0.57201	-0.03791	0.89912
0.07221	2.11872	1.80595	0.00154	-2.84984	0.80945	-0.00201	3.51320	0.57942	-0.03763	0.89829
0.07391	1.87045	1.80251	0.00205	-2.79991	0.80133	-0.00207	3.29552	0.58750	-0.03769	0.89966
0.07565	1.64421	1.79858	0.00245	-2.75294	0.79427	-0.00213	3.10816	0.59490	-0.03791	0.90200
0.07743	1.47047	1.79482	0.00256	-2.71502	0.78949	-0.00218	2.97326	0.60055	-0.03818	0.90455
0.07925	1.35403	1.79110	0.00219	-2.68768	0.78799	-0.00223	2.88838	0.60414	-0.03845	0.90710
0.08111	1.28685	1.78689	0.00123	-2.66938	0.78989	-0.00226	2.84292	0.60582	-0.03867	0.90931
0.08302	1.25115	1.78225	-0.00031	-2.65685	0.79376	-0.00229	2.82096	0.60625	-0.03877	0.91080
0.08498	1.20770	1.77716	-0.00218	-2.64274	0.79717	-0.00232	2.79292	0.60682	-0.03878	0.91184
0.08697	1.15086	1.77239	-0.00402	-2.62649	0.79993	-0.00235	2.75710	0.60774	-0.03864	0.91217
0.08902	1.08958	1.76814	-0.00569	-2.60988	0.80219	-0.00238	2.71975	0.60882	-0.03845	0.91236
0.09112	1.01599	1.76378	-0.00716	-2.59085	0.80338	-0.00241	2.67276	0.61045	-0.03821	0.91231
0.09326	0.90976	1.75899	-0.00824	-2.56547	0.80446	-0.00246	2.59982	0.61335	-0.03774	0.91073
0.09545	0.78173	1.75388	-0.00912	-2.53616	0.80618	-0.00250	2.50848	0.61719	-0.03690	0.90683
0.09770	0.66148	1.74828	-0.01012	-2.50853	0.81004	-0.00255	2.42300	0.62065	-0.03584	0.90178
0.10000	0.53712	1.74181	-0.01120	-2.47991	0.81333	-0.00259	2.33492	0.62423	-0.03506	0.89885
0.10235	0.39204	1.73461	-0.01223	-2.44678	0.81400	-0.00263	2.23187	0.62884	-0.03477	0.89949
0.10476	0.26325	1.72683	-0.01376	-2.41560	0.81583	-0.00268	2.14529	0.63267	-0.03469	0.90182
0.10723	0.17441	1.71843	-0.01603	-2.39077	0.82207	-0.00272	2.09420	0.63429	-0.03437	0.90280
0.10975	0.08727	1.70928	-0.01858	-2.36550	0.82953	-0.00278	2.04667	0.63558	-0.03383	0.90212
0.11233	-0.02335	1.69970	-0.02113	-2.33563	0.83329	-0.00283	1.98077	0.63813	-0.03336	0.90120
0.11498	-0.13940	1.69000	-0.02392	-2.30451	0.83047	-0.00286	1.90915	0.64140	-0.03296	0.90027
0.11768	-0.24624	1.68040	-0.02690	-2.27470	0.82348	-0.00287	1.84361	0.64463	-0.03253	0.89911
0.12045	-0.35738	1.67194	-0.02957	-2.24478	0.81689	-0.00290	1.77622	0.64836	-0.03208	0.89807
0.12328	-0.47216	1.66531	-0.03178	-2.21586	0.81099	-0.00292	1.70832	0.65256	-0.03178	0.89794
0.12619	-0.56801	1.66058	-0.03390	-2.19233	0.80638	-0.00294	1.65740	0.65582	-0.03150	0.89767
0.12916	-0.63883	1.65720	-0.03619	-2.17495	0.80638	-0.00296	1.62776	0.65742	-0.03088	0.89459
0.13219	-0.71488	1.65339	-0.03871	-2.15686	0.80930	-0.00299	1.59433	0.65905	-0.02983	0.88853
0.13531	-0.79820	1.64756	-0.04170	-2.13613	0.81166	-0.00301	1.55220	0.66108	-0.02869	0.88168
0.13849	-0.89000	1.63971	-0.04489	-2.11203	0.81166	-0.00303	1.50248	0.66367	-0.02788	0.87710
0.14175	-1.00045	1.63102	-0.04776	-2.08312	0.80814	-0.00304	1.44218	0.66740	-0.02728	0.87391
0.14508	-1.12382	1.62158	-0.05039	-2.05106	0.80259	-0.00306	1.37342	0.67208	-0.02676	0.87091
0.14850	-1.24613	1.61273	-0.05314	-2.02032	0.79829	-0.00308	1.30599	0.67680	-0.02624	0.86736
0.15199	-1.35963	1.60548	-0.05600	-1.99287	0.79788	-0.00311	1.25017	0.68062	-0.02546	0.86170
0.15557	-1.47074	1.59903	-0.05860	-1.96600	0.80038	-0.00315	1.20220	0.68393	-0.02448	0.85468
0.15923	-1.55892	1.59346	-0.06121	-1.94383	0.80568	-0.00319	1.16753	0.68613	-0.02349	0.84794
0.16298	-1.61528	1.58797	-0.06431	-1.92737	0.81211	-0.00322	1.14835	0.68676	-0.02253	0.84197
0.16681	-1.68221	1.58079	-0.06767	-1.90668	0.81317	-0.00324	1.12213	0.68827	-0.02174	0.83745
0.17074	-1.76131	1.57374	-0.07110	-1.88329	0.81069	-0.00326	1.08962	0.69077	-0.02111	0.83398
0.17475	-1.83217	1.56907	-0.07452	-1.86366	0.81246	-0.00329	1.06247	0.69294	-0.02045	0.83027
0.17887	-1.89531	1.56664	-0.07795	-1.84854	0.81984	-0.00332	1.03842	0.69482	-0.01985	0.82701
0.18307	-1.94554	1.56532	-0.08167	-1.83816	0.82949	-0.00335	1.01862	0.69609	-0.01945	0.82553
0.18738	-1.97885	1.56322	-0.08590	-1.83086	0.83524	-0.00335	1.00597	0.69635	-0.01913	0.82484
0.19179	-2.00718	1.55907	-0.09034	-1.82249	0.83358	-0.00333	0.99623	0.69618	-0.01888	0.82417
0.19631	-2.04399	1.55331	-0.09475	-1.81063	0.82689	-0.00330	0.98408	0.69626	-0.01844	0.82205
0.20092	-2.08685	1.54677	-0.09922	-1.79628	0.82067	-0.00328	0.97279	0.69612	-0.01752	0.81706
0.20565	-2.11701	1.54125	-0.10390	-1.78472	0.81902	-0.00328	0.97231	0.69458	-0.01624	0.81019
0.21049	-2.11634	1.53710	-0.10910	-1.78037	0.82385	-0.00328	0.99090	0.69044	-0.01489	0.80318
0.21544	-2.09358	1.53302	-0.11477	-1.78101	0.83217	-0.00328	1.02323	0.68423	-0.01368	0.79665
0.22051	-2.09146	1.52853	-0.12014	-1.77822	0.83566	-0.00326	1.04107	0.67978	-0.01274	0.79170
0.22570	-2.12956	1.52372	-0.12479	-1.76789	0.83225	-0.00324	1.03021	0.67902	-0.01206	0.78892
0.23101	-2.19081	1.51936	-0.12885	-1.75335	0.82698	-0.00321	1.00336	0.68055	-0.01154	0.78768
0.23645	-2.26207	1.51632	-0.13236	-1.73765	0.82344	-0.00320	0.97176	0.68314	-0.01112	0.78725
0.24201	-2.33681	1.51475	-0.13540	-1.72222	0.82043	-0.00319	0.94000	0.68629	-0.01077	0.78725
0.24771	-2.39525	1.51313	-0.13878	-1.71020	0.81637	-0.00317	0.91666	0.68831	-0.01046	0.78731
0.25354	-2.42692	1.51004	-0.14313	-1.70255	0.81140	-0.00313	0.90682	0.68803	-0.01005	0.78693
0.25950	-2.46488	1.50613	-0.14779	-1.69297	0.80395	-0.00309	0.89547	0.68784	-0.00954	0.78597
0.26561	-2.53684	1.50228	-0.15208	-1.67677	0.79230	-0.00305	0.86969	0.68990	-0.00882	0.78356
0.27186	-2.62548	1.49785	-0.15625	-1.65657	0.77913	-0.00301	0.83892	0.69275	-0.00793	0.77947
0.27826	-2.71738	1.49316	-0.16039	-1.63552	0.76876	-0.00298	0.80781	0.69563	-0.00686	0.77353
0.28480	-2.79789	1.48954	-0.16454	-1.61830	0.76094	-0.00295	0.78055	0.69799	-0.00548	0.76523
0.29150	-2.83120	1.48777	-0.16925	-1.61246	0.75827	-0.00291	0.77765	0.69640	-0.00399	0.75634
0.29836	-2.80818	1.48729	-0.17483	-1.61885	0.76553	-0.00288	0.80774	0.68927	-0.00290	0.75040

0.30539	-2.76000	1.48673	-0.18080	-1.63012	0.77943	-0.00286	0.85550	0.67928	-0.00239	0.74828
0.31257	-2.73799	1.48541	-0.18623	-1.63576	0.79023	-0.00285	0.89087	0.67131	-0.00210	0.74764
0.31993	-2.76660	1.48458	-0.19066	-1.63219	0.79531	-0.00284	0.89921	0.66751	-0.00170	0.74645
0.32745	-2.84834	1.48490	-0.19420	-1.61935	0.79730	-0.00284	0.87872	0.66815	-0.00122	0.74481
0.33517	-2.96593	1.48568	-0.19729	-1.59990	0.79682	-0.00286	0.83752	0.67219	-0.00087	0.74396
0.34304	-3.06508	1.48643	-0.20080	-1.58411	0.79297	-0.00286	0.80471	0.67532	-0.00053	0.74320
0.35112	-3.09900	1.48716	-0.20558	-1.58097	0.78759	-0.00282	0.80739	0.67298	-0.00007	0.74179
0.35938	-3.07554	1.48852	-0.21146	-1.58934	0.78477	-0.00277	0.84525	0.66526	0.00038	0.73997
0.36784	-3.04924	1.49017	-0.21765	-1.59831	0.78663	-0.00274	0.88994	0.65658	0.00085	0.73746
0.37649	-3.05670	1.49094	-0.22370	-1.59960	0.79192	-0.00274	0.91935	0.64985	0.00150	0.73372
0.38536	-3.08598	1.49046	-0.22975	-1.59563	0.79679	-0.00274	0.93749	0.64441	0.00223	0.72991
0.39442	-3.11866	1.48930	-0.23577	-1.59123	0.79856	-0.00272	0.95324	0.63917	0.00273	0.72817
0.40370	-3.16351	1.48794	-0.24154	-1.58521	0.79793	-0.00270	0.96073	0.63493	0.00296	0.72882
0.41321	-3.23371	1.48628	-0.24698	-1.57430	0.79854	-0.00269	0.95270	0.63253	0.00297	0.73115
0.42292	-3.33372	1.48482	-0.25188	-1.55761	0.80206	-0.00271	0.92736	0.63241	0.00292	0.73390
0.43288	-3.46036	1.48501	-0.25603	-1.53713	0.80528	-0.00274	0.88559	0.63506	0.00301	0.73541
0.44307	-3.59473	1.48806	-0.25965	-1.51782	0.80720	-0.00277	0.83852	0.63947	0.00307	0.73651
0.45349	-3.72032	1.49453	-0.26317	-1.50386	0.80925	-0.00278	0.79563	0.64430	0.00296	0.73859
0.46417	-3.82323	1.50320	-0.26707	-1.49721	0.81188	-0.00278	0.76459	0.64785	0.00275	0.74189
0.47508	-3.90506	1.51074	-0.27171	-1.49428	0.81436	-0.00276	0.74537	0.64900	0.00271	0.74498
0.48626	-3.98070	1.51501	-0.27704	-1.48994	0.81520	-0.00273	0.73076	0.64828	0.00304	0.74634
0.49771	-4.07304	1.51628	-0.28254	-1.47945	0.81200	-0.00270	0.70794	0.64819	0.00351	0.74675
0.50942	-4.19409	1.51581	-0.28775	-1.46090	0.80507	-0.00269	0.67190	0.65038	0.00387	0.74744
0.52140	-4.33006	1.51531	-0.29265	-1.43831	0.80009	-0.00270	0.63361	0.65347	0.00407	0.74884
0.53367	-4.45746	1.51624	-0.29759	-1.41836	0.80238	-0.00274	0.60725	0.65478	0.00420	0.75083
0.54624	-4.57140	1.51893	-0.30259	-1.40299	0.81115	-0.00279	0.59277	0.65402	0.00430	0.75353
0.55910	-4.67738	1.52295	-0.30736	-1.39077	0.82136	-0.00284	0.58311	0.65261	0.00439	0.75694
0.57225	-4.78322	1.52839	-0.31164	-1.38003	0.82837	-0.00287	0.57296	0.65177	0.00472	0.75905
0.58569	-4.89142	1.53498	-0.31558	-1.37012	0.83140	-0.00289	0.56265	0.65116	0.00552	0.75806
0.59948	-4.98836	1.54162	-0.31988	-1.36306	0.83137	-0.00290	0.56164	0.64811	0.00669	0.75422
0.61357	-5.05059	1.54750	-0.32508	-1.36288	0.82960	-0.00288	0.58369	0.63947	0.00794	0.74946
0.62802	-5.07361	1.55245	-0.33114	-1.37018	0.82878	-0.00284	0.63299	0.62507	0.00903	0.74573
0.64280	-5.08541	1.55664	-0.33743	-1.37902	0.82874	-0.00279	0.69394	0.60911	0.00986	0.74388
0.65794	-5.12787	1.56010	-0.34334	-1.38074	0.82437	-0.00275	0.73771	0.59687	0.01051	0.74339
0.67340	-5.22121	1.56252	-0.34854	-1.37074	0.81095	-0.00269	0.74604	0.59071	0.01094	0.74428
0.68927	-5.35777	1.56428	-0.35316	-1.35084	0.78960	-0.00264	0.72393	0.58963	0.01120	0.74625
0.70547	-5.50679	1.56701	-0.35735	-1.32905	0.76863	-0.00261	0.69437	0.59033	0.01154	0.74771
0.72207	-5.63435	1.57203	-0.36127	-1.31413	0.75821	-0.00259	0.68327	0.58832	0.01211	0.74755
0.73910	-5.71952	1.57932	-0.36496	-1.31083	0.76357	-0.00260	0.70591	0.58060	0.01287	0.74563
0.75649	-5.75846	1.58818	-0.36852	-1.31945	0.78172	-0.00262	0.76478	0.56730	0.01378	0.74190
0.77429	-5.76203	1.59800	-0.37211	-1.33697	0.80544	-0.00263	0.85357	0.55077	0.01475	0.73661
0.79246	-5.74951	1.60826	-0.37570	-1.35830	0.82848	-0.00262	0.95810	0.53419	0.01554	0.73137
0.81116	-5.74809	1.61855	-0.37931	-1.37697	0.84655	-0.00260	1.05520	0.52042	0.01598	0.72767
0.83022	-5.78967	1.62818	-0.38292	-1.38562	0.85504	-0.00258	1.11329	0.51179	0.01635	0.72401
0.84976	-5.89918	1.63651	-0.38646	-1.37882	0.85048	-0.00255	1.11030	0.50912	0.01705	0.71772
0.86972	-6.06894	1.64362	-0.38970	-1.35830	0.83537	-0.00254	1.05569	0.51122	0.01798	0.70990
0.89023	-6.27011	1.65042	-0.39251	-1.33102	0.81707	-0.00254	0.98086	0.51542	0.01877	0.70356
0.91116	-6.47776	1.65740	-0.39495	-1.30274	0.80148	-0.00256	0.91025	0.51933	0.01940	0.69934
0.93257	-6.67658	1.66453	-0.39719	-1.27682	0.79024	-0.00258	0.85688	0.52116	0.01994	0.69667
0.95456	-6.86175	1.67153	-0.39940	-1.25390	0.78176	-0.00261	0.82184	0.52048	0.02036	0.69566
0.97704	-7.03776	1.67812	-0.40158	-1.23248	0.77351	-0.00263	0.79702	0.51830	0.02058	0.69671
1.00000	-7.20582	1.68446	-0.40361	-1.21243	0.76530	-0.00265	0.77862	0.51524	0.02054	0.70007
1.02354	-7.36288	1.69119	-0.40539	-1.19524	0.75934	-0.00267	0.76784	0.51126	0.02033	0.70520
1.04767	-7.50362	1.69883	-0.40693	-1.18269	0.75828	-0.00268	0.76877	0.50585	0.02003	0.71126
1.07227	-7.62403	1.70746	-0.40832	-1.17553	0.76303	-0.00269	0.78421	0.49875	0.01961	0.71833
1.09745	-7.72696	1.71721	-0.40967	-1.17322	0.77195	-0.00271	0.81183	0.49052	0.01912	0.72594
1.12334	-7.81642	1.72805	-0.41114	-1.17480	0.78171	-0.00271	0.84794	0.48188	0.01872	0.73307
1.14982	-7.89533	1.73949	-0.41288	-1.17896	0.78956	-0.00269	0.88895	0.47337	0.01837	0.73976
1.17675	-7.96547	1.75124	-0.41493	-1.18488	0.79549	-0.00266	0.93405	0.46506	0.01807	0.74599
1.20453	-8.03408	1.76372	-0.41716	-1.19172	0.79983	-0.00263	0.97945	0.45744	0.01792	0.75100
1.23289	-8.10565	1.77713	-0.41930	-1.19893	0.80298	-0.00259	1.01947	0.45123	0.01791	0.75478
1.26183	-8.18747	1.79129	-0.42118	-1.20490	0.80501	-0.00255	1.04842	0.44677	0.01800	0.75765
1.29149	-8.28519	1.80574	-0.42281	-1.20787	0.80593	-0.00251	1.06445	0.44377	0.01828	0.75906
1.32188	-8.40273	1.81982	-0.42418	-1.20614	0.80523	-0.00249	1.06458	0.44221	0.01873	0.75922
1.35300	-8.53594	1.83307	-0.42536	-1.19996	0.80282	-0.00248	1.05194	0.44169	0.01928	0.75899
1.38485	-8.67096	1.84523	-0.42653	-1.19183	0.79992	-0.00248	1.04220	0.44052	0.01988	0.75879
1.41743	-8.79274	1.85623	-0.42778	-1.18494	0.79829	-0.00248	1.05391	0.43667	0.02046	0.75905
1.45075	-8.90067	1.86633	-0.42899	-1.17981	0.79768	-0.00248	1.08861	0.43008	0.02089	0.76081
1.48500	-9.00555	1.87617	-0.42997	-1.17510	0.79640	-0.00247	1.13390	0.42236	0.02110	0.76469
1.51999	-9.11787	1.88643	-0.43059	-1.16958	0.79298	-0.00245	1.17386	0.41534	0.02122	0.76970
1.55569	-9.23899	1.89751	-0.43086	-1.16364	0.78772	-0.00243	1.20424	0.40945	0.02140	0.77454
1.59236	-9.36481	1.90942	-0.43077	-1.15833	0.78239	-0.00241	1.22999	0.40417	0.02158	0.77969
1.62973	-9.48629	1.92179	-0.43042	-1.15506	0.77964	-0.00239	1.26130	0.39853	0.02158	0.78630
1.66806	-9.60246	1.93450	-0.42990	-1.15391	0.78089	-0.00238	1.30290	0.39197	0.02139	0.79452
1.70736	-9.71855	1.94759	-0.42925	-1.15394	0.78572	-0.00238	1.35115	0.38472	0.02123	0.80278
1.74764	-9.84242	1.96102	-0.42843	-1.15359	0.79212	-0.00239	1.39810	0.37722	0.02131	0.80935
1.78859	-9.98131	1.97434	-0.42740	-1.15080	0.79715	-0.00240	1.43202	0.37013	0.02165	0.81383
1.83083	-10.13648	1.98750	-0.42609	-1.14529	0.79947	-0.00241	1.45269	0.36329	0.02210	0.81745
1.87371	-10.29773	2.00025	-0.42444	-1.13862	0.79942	-0.00241	1.46782	0.35640	0.02244	0.82197
1.91791	-10.45854	2.01296	-0.42235	-1.13264	0.79839	-0.00241	1.48823	0.34900	0.02251	0.82870
1.96309	-10.61118	2.02568	-0.41984	-1.12883	0.79767	-0.00241	1.52269	0.34087	0.02234	0.83753

2.00924	-10.75693	2.03837	-0.41694	-1.12679	0.79749	-0.00240	1.57133	0.33207	0.02202	0.84759
2.05634	-10.89989	2.05087	-0.41368	-1.12542	0.79758	-0.00239	1.63107	0.32273	0.02167	0.85774
2.10482	-11.04198	2.06308	-0.41011	-1.12429	0.79855	-0.00239	1.70538	0.31245	0.02141	0.86700
2.15424	-11.18332	2.07480	-0.40629	-1.12294	0.80056	-0.00239	1.79412	0.30127	0.02131	0.87454
2.20507	-11.32341	2.08618	-0.40223	-1.12170	0.80351	-0.00239	1.90322	0.28900	0.02137	0.88027
2.25683	-11.45654	2.09726	-0.39799	-1.12168	0.80753	-0.00239	2.04374	0.27543	0.02158	0.88410
2.31000	-11.57683	2.10829	-0.39357	-1.12459	0.81374	-0.00239	2.23749	0.25998	0.02193	0.88579
2.36463	-11.68384	2.11938	-0.38894	-1.13052	0.82250	-0.00239	2.49074	0.24317	0.02232	0.88583
2.42014	-11.78199	2.13052	-0.38412	-1.13818	0.83317	-0.00239	2.78763	0.22640	0.02263	0.88532
2.47709	-11.87859	2.14191	-0.37914	-1.14615	0.84506	-0.00239	3.10589	0.21076	0.02273	0.88562
2.53550	-11.97927	2.15368	-0.37411	-1.15314	0.85710	-0.00240	3.41699	0.19709	0.02261	0.88751
2.59471	-12.08521	2.16579	-0.36920	-1.15861	0.86852	-0.00240	3.69804	0.18580	0.02234	0.89112
2.65604	-12.19906	2.17862	-0.36436	-1.16270	0.87930	-0.00240	3.94389	0.17663	0.02195	0.89636
2.71887	-12.32059	2.19204	-0.35973	-1.16508	0.88877	-0.00241	4.14213	0.16956	0.02150	0.90296
2.78242	-12.44949	2.20585	-0.35541	-1.16545	0.89622	-0.00241	4.28337	0.16451	0.02105	0.91045
2.84819	-12.58928	2.22033	-0.35130	-1.16367	0.90124	-0.00240	4.36557	0.16127	0.02064	0.91871
2.91545	-12.73629	2.23519	-0.34751	-1.15999	0.90399	-0.00240	4.39392	0.15956	0.02027	0.92773
2.98329	-12.88461	2.25005	-0.34409	-1.15518	0.90521	-0.00239	4.38278	0.15905	0.01993	0.93732
3.05344	-13.03432	2.26513	-0.34102	-1.14962	0.90570	-0.00238	4.34719	0.15926	0.01959	0.94763
3.12598	-13.18364	2.28029	-0.33826	-1.14364	0.90597	-0.00237	4.29612	0.15997	0.01926	0.95851
3.19898	-13.32622	2.29497	-0.33596	-1.13770	0.90639	-0.00236	4.24152	0.16080	0.01892	0.96942
3.27439	-13.46532	2.30956	-0.33401	-1.13185	0.90717	-0.00235	4.18669	0.16169	0.01859	0.98022
3.35121	-13.59724	2.32376	-0.33242	-1.12650	0.90858	-0.00235	4.13997	0.16240	0.01827	0.99043
3.43053	-13.72279	2.33786	-0.33113	-1.12199	0.91093	-0.00234	4.10723	0.16284	0.01798	1.00016
3.51124	-13.83876	2.35161	-0.33013	-1.11869	0.91434	-0.00233	4.09598	0.16280	0.01772	1.00927
3.59324	-13.94656	2.36515	-0.32927	-1.11669	0.91881	-0.00233	4.10573	0.16238	0.01752	1.01771
3.67782	-14.04778	2.37858	-0.32861	-1.11573	0.92415	-0.00232	4.13755	0.16137	0.01734	1.02610
3.76506	-14.14587	2.39211	-0.32781	-1.11594	0.93042	-0.00232	4.18863	0.16005	0.01720	1.03430
3.85356	-14.23859	2.40531	-0.32719	-1.11658	0.93700	-0.00232	4.25436	0.15815	0.01705	1.04279
3.94477	-14.33620	2.41861	-0.32615	-1.11726	0.94354	-0.00232	4.31608	0.15644	0.01690	1.05108
4.03714	-14.43245	2.43166	-0.32520	-1.11772	0.94979	-0.00232	4.37868	0.15441	0.01673	1.05946
4.13223	-14.53674	2.44462	-0.32385	-1.11733	0.95524	-0.00232	4.41915	0.15286	0.01648	1.06793
4.23012	-14.64998	2.45781	-0.32215	-1.11604	0.95991	-0.00232	4.43667	0.15174	0.01621	1.07603
4.32900	-14.76274	2.47041	-0.32046	-1.11414	0.96384	-0.00232	4.44731	0.15036	0.01593	1.08388
4.43066	-14.88821	2.48300	-0.31800	-1.11143	0.96701	-0.00233	4.42610	0.14994	0.01558	1.09122
4.53515	-15.01334	2.49554	-0.31550	-1.10867	0.97001	-0.00233	4.40887	0.14909	0.01529	1.09814
4.64253	-15.14017	2.50753	-0.31264	-1.10586	0.97284	-0.00234	4.39065	0.14831	0.01505	1.10467
4.75059	-15.27651	2.51931	-0.30898	-1.10246	0.97516	-0.00234	4.35148	0.14840	0.01488	1.11005
4.86145	-15.40897	2.53085	-0.30542	-1.09905	0.97715	-0.00235	4.32977	0.14758	0.01490	1.11475
4.97760	-15.54807	2.54161	-0.30130	-1.09503	0.97797	-0.00236	4.30607	0.14682	0.01500	1.11881
5.09424	-15.69529	2.55182	-0.29637	-1.09034	0.97722	-0.00236	4.27287	0.14650	0.01521	1.12158
5.21376	-15.83754	2.56201	-0.29155	-1.08577	0.97538	-0.00236	4.26220	0.14510	0.01561	1.12388
5.33618	-15.97900	2.57121	-0.28650	-1.08128	0.97233	-0.00236	4.24320	0.14429	0.01603	1.12599
5.46150	-16.12944	2.57988	-0.28056	-1.07661	0.96774	-0.00235	4.19835	0.14496	0.01649	1.12735
5.58971	-16.27728	2.58909	-0.27464	-1.07212	0.96222	-0.00234	4.16446	0.14510	0.01710	1.12862
5.72082	-16.41500	2.59772	-0.26903	-1.06873	0.95764	-0.00233	4.14848	0.14494	0.01767	1.13041
5.85823	-16.55245	2.60490	-0.26266	-1.06704	0.95466	-0.00232	4.13093	0.14628	0.01812	1.13213
5.99520	-16.68417	2.61246	-0.25617	-1.06639	0.95236	-0.00230	4.13013	0.14740	0.01855	1.13397
6.13497	-16.80992	2.62084	-0.25009	-1.06617	0.95075	-0.00229	4.14923	0.14758	0.01894	1.13660
6.28141	-16.93135	2.62753	-0.24412	-1.06641	0.95039	-0.00228	4.15913	0.14863	0.01909	1.14010
6.42674	-17.04772	2.63264	-0.23779	-1.06740	0.95128	-0.00228	4.15638	0.15091	0.01900	1.14400
6.57895	-17.16921	2.63937	-0.23125	-1.06837	0.95236	-0.00228	4.16070	0.15273	0.01881	1.14879
6.73401	-17.29054	2.64748	-0.22516	-1.06896	0.95343	-0.00227	4.17175	0.15375	0.01858	1.15438
6.89180	-17.40228	2.65281	-0.21951	-1.06953	0.95460	-0.00226	4.15612	0.15597	0.01816	1.16072
7.05716	-17.51435	2.65662	-0.21333	-1.07044	0.95616	-0.00226	4.11262	0.15977	0.01746	1.16809
7.22022	-17.62747	2.66232	-0.20726	-1.07125	0.95780	-0.00226	4.07415	0.16305	0.01671	1.17577
7.39098	-17.74941	2.67070	-0.20125	-1.07171	0.95947	-0.00225	4.04373	0.16556	0.01596	1.18377
7.56430	-17.85898	2.67717	-0.19603	-1.07238	0.96093	-0.00224	4.01444	0.16802	0.01525	1.19140
7.73994	-17.94865	2.67897	-0.19100	-1.07424	0.96235	-0.00224	3.96896	0.17194	0.01436	1.19916
7.92393	-18.04706	2.68280	-0.18553	-1.07623	0.96382	-0.00223	3.92383	0.17580	0.01337	1.20718
8.11030	-18.15315	2.68909	-0.18002	-1.07786	0.96516	-0.00222	3.88393	0.17911	0.01241	1.21482
8.29876	-18.27094	2.69873	-0.17465	-1.07864	0.96634	-0.00221	3.85085	0.18154	0.01158	1.22174
8.49618	-18.36605	2.70348	-0.17022	-1.08010	0.96754	-0.00220	3.82300	0.18408	0.01085	1.22804
8.69565	-18.43510	2.70286	-0.16615	-1.08289	0.96886	-0.00219	3.79381	0.18738	0.01006	1.23445
8.90472	-18.52231	2.70598	-0.16146	-1.08523	0.97017	-0.00218	3.76367	0.19042	0.00923	1.24106
9.11577	-18.61661	2.71104	-0.15669	-1.08716	0.97139	-0.00217	3.73566	0.19309	0.00846	1.24746
9.32836	-18.73460	2.72143	-0.15142	-1.08804	0.97240	-0.00216	3.70552	0.19531	0.00776	1.25364
9.54198	-18.84001	2.72977	-0.14716	-1.08869	0.97332	-0.00215	3.68311	0.19700	0.00723	1.25928
9.76563	-18.89365	2.72722	-0.14438	-1.09123	0.97458	-0.00214	3.67231	0.19904	0.00673	1.26535
10.00000	-18.95486	2.72595	-0.14104	-1.09388	0.97587	-0.00213	3.65945	0.20120	0.00616	1.27242

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
High stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 6 - 15 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-8.02869	3.39395	-0.04663	-1.62749	0.96810	-0.00102	0.89469	0.47825	-0.01911	0.34256
PGV	16.65906	1.91047	-0.03090	-5.14866	1.95706	0.00077	37.23611	0.18845	-0.04501	0.65401
PGA	2.66863	1.50627	-0.05004	-2.68274	1.04486	-0.00252	6.18957	0.44029	-0.01895	0.71408
0.01000	3.95125	1.54086	-0.04392	-2.94071	1.04204	-0.00218	7.83459	0.42052	-0.00470	0.74170
0.01024	3.98267	1.54441	-0.04277	-2.94836	1.03600	-0.00216	7.84547	0.42151	-0.00485	0.74373
0.01048	4.01950	1.54795	-0.04161	-2.95696	1.03006	-0.00214	7.86341	0.42240	-0.00502	0.74582
0.01072	4.05847	1.55144	-0.04047	-2.96589	1.02416	-0.00212	7.88372	0.42323	-0.00517	0.74777
0.01097	4.09403	1.55485	-0.03933	-2.97413	1.01817	-0.00210	7.89759	0.42414	-0.00529	0.74946
0.01123	4.12218	1.55818	-0.03816	-2.98096	1.01199	-0.00208	7.89827	0.42522	-0.00539	0.75101
0.01150	4.14639	1.56148	-0.03695	-2.98705	1.00575	-0.00206	7.89077	0.42642	-0.00551	0.75265
0.01177	4.17624	1.56486	-0.03573	-2.99420	0.99962	-0.00204	7.89002	0.42752	-0.00568	0.75455
0.01205	4.21479	1.56830	-0.03449	-3.00295	0.99350	-0.00202	7.90100	0.42847	-0.00589	0.75675
0.01233	4.25672	1.57174	-0.03324	-3.01227	0.98719	-0.00199	7.91592	0.42936	-0.00613	0.75907
0.01262	4.29792	1.57514	-0.03199	-3.02137	0.98066	-0.00197	7.92907	0.43028	-0.00636	0.76133
0.01292	4.33542	1.57847	-0.03075	-3.02969	0.97399	-0.00195	7.93624	0.43128	-0.00655	0.76339
0.01322	4.36382	1.58171	-0.02952	-3.03623	0.96716	-0.00193	7.92899	0.43248	-0.00671	0.76517
0.01353	4.38134	1.58488	-0.02828	-3.04072	0.96015	-0.00191	7.90393	0.43392	-0.00682	0.76671
0.01385	4.39669	1.58807	-0.02701	-3.04485	0.95312	-0.00190	7.87406	0.43544	-0.00692	0.76812
0.01417	4.42249	1.59137	-0.02573	-3.05095	0.94627	-0.00188	7.85908	0.43676	-0.00702	0.76959
0.01451	4.46317	1.59477	-0.02442	-3.05976	0.93964	-0.00186	7.86613	0.43775	-0.00713	0.77114
0.01485	4.50863	1.59818	-0.02310	-3.06935	0.93288	-0.00184	7.87992	0.43867	-0.00725	0.77273
0.01520	4.54503	1.60149	-0.02176	-3.07712	0.92560	-0.00182	7.87944	0.43980	-0.00736	0.77435
0.01556	4.57048	1.60472	-0.02043	-3.08277	0.91797	-0.00180	7.86190	0.44119	-0.00747	0.77598
0.01592	4.59127	1.60789	-0.01912	-3.08752	0.91040	-0.00178	7.83726	0.44266	-0.00756	0.77756
0.01630	4.61507	1.61103	-0.01786	-3.09273	0.90281	-0.00177	7.81717	0.44407	-0.00761	0.77902
0.01668	4.64389	1.61418	-0.01661	-3.09877	0.89508	-0.00175	7.80408	0.44538	-0.00761	0.78020
0.01707	4.67265	1.61735	-0.01535	-3.10478	0.88750	-0.00173	7.79050	0.44670	-0.00752	0.78091
0.01748	4.69381	1.62052	-0.01404	-3.10933	0.88007	-0.00172	7.76641	0.44817	-0.00740	0.78143
0.01789	4.70285	1.62368	-0.01268	-3.11153	0.87219	-0.00171	7.72562	0.44993	-0.00732	0.78233
0.01831	4.69906	1.62686	-0.01127	-3.11126	0.86333	-0.00170	7.66590	0.45203	-0.00734	0.78391
0.01874	4.68166	1.63009	-0.00980	-3.10857	0.85344	-0.00170	7.58411	0.45453	-0.00741	0.78586
0.01918	4.65918	1.63340	-0.00829	-3.10516	0.84331	-0.00169	7.49209	0.45720	-0.00746	0.78766
0.01963	4.65612	1.63685	-0.00679	-3.10551	0.83429	-0.00168	7.42674	0.45943	-0.00747	0.78916
0.02009	4.69233	1.64043	-0.00537	-3.11305	0.82690	-0.00166	7.41843	0.46072	-0.00745	0.79039
0.02057	4.75926	1.64398	-0.00406	-3.12595	0.82020	-0.00164	7.45626	0.46124	-0.00737	0.79122
0.02105	4.81916	1.64718	-0.00280	-3.13714	0.81294	-0.00162	7.48667	0.46187	-0.00721	0.79157
0.02154	4.82469	1.64978	-0.00152	-3.13801	0.80433	-0.00161	7.44160	0.46365	-0.00698	0.79145
0.02205	4.75853	1.65178	-0.00016	-3.12551	0.79451	-0.00162	7.29747	0.46698	-0.00672	0.79125
0.02257	4.63998	1.65344	0.00127	-3.10333	0.78432	-0.00164	7.08429	0.47148	-0.00650	0.79139
0.02310	4.50027	1.65513	0.00274	-3.07735	0.77469	-0.00167	6.84800	0.47648	-0.00626	0.79148
0.02364	4.37348	1.65714	0.00424	-3.05388	0.76614	-0.00171	6.63527	0.48122	-0.00593	0.79101
0.02420	4.28294	1.65959	0.00571	-3.03720	0.75864	-0.00173	6.47510	0.48515	-0.00555	0.79025
0.02477	4.22956	1.66241	0.00708	-3.02741	0.75180	-0.00175	6.36616	0.48821	-0.00519	0.78970
0.02535	4.19510	1.66538	0.00834	-3.02102	0.74474	-0.00176	6.28369	0.49084	-0.00488	0.78944
0.02595	4.15536	1.66820	0.00958	-3.01342	0.73655	-0.00176	6.19667	0.49361	-0.00452	0.78893
0.02656	4.10104	1.67065	0.01087	-3.00275	0.72698	-0.00177	6.09450	0.49671	-0.00406	0.78770
0.02719	4.04174	1.67275	0.01218	-2.99067	0.71655	-0.00179	5.99078	0.49989	-0.00357	0.78620
0.02783	3.98624	1.67465	0.01345	-2.97892	0.70628	-0.00180	5.89577	0.50291	-0.00313	0.78500
0.02848	3.93752	1.67660	0.01465	-2.96841	0.69761	-0.00181	5.81166	0.50570	-0.00275	0.78419
0.02915	3.89451	1.67880	0.01580	-2.95927	0.69147	-0.00183	5.73592	0.50825	-0.00239	0.78358
0.02984	3.84868	1.68128	0.01695	-2.95010	0.68715	-0.00185	5.65625	0.51085	-0.00200	0.78298
0.03054	3.79296	1.68389	0.01814	-2.93946	0.68288	-0.00188	5.56321	0.51376	-0.00156	0.78232
0.03126	3.73203	1.68637	0.01933	-2.92785	0.67767	-0.00190	5.46454	0.51682	-0.00105	0.78143
0.03199	3.67375	1.68857	0.02042	-2.91640	0.67161	-0.00192	5.37207	0.51978	-0.00046	0.78015
0.03275	3.61776	1.69048	0.02135	-2.90503	0.66498	-0.00194	5.28510	0.52262	0.00015	0.77876
0.03352	3.55835	1.69205	0.02219	-2.89278	0.65810	-0.00196	5.19591	0.52551	0.00065	0.77792
0.03430	3.49823	1.69317	0.02302	-2.88009	0.65176	-0.00197	5.10879	0.52830	0.00103	0.77790
0.03511	3.44319	1.69382	0.02383	-2.86789	0.64670	-0.00199	5.03265	0.53075	0.00133	0.77821
0.03594	3.38639	1.69401	0.02456	-2.85494	0.64274	-0.00202	4.96017	0.53303	0.00169	0.77810
0.03678	3.31754	1.69377	0.02523	-2.83936	0.63931	-0.00205	4.87960	0.53546	0.00212	0.77753
0.03765	3.23755	1.69311	0.02595	-2.82120	0.63591	-0.00209	4.79206	0.53809	0.00251	0.77724
0.03854	3.14289	1.69229	0.02675	-2.80003	0.63199	-0.00213	4.69141	0.54112	0.00287	0.77717
0.03944	3.01771	1.69168	0.02769	-2.77351	0.62715	-0.00217	4.55750	0.54520	0.00330	0.77663
0.04037	2.84871	1.69157	0.02881	-2.73969	0.62133	-0.00223	4.37525	0.55082	0.00390	0.77498
0.04132	2.64561	1.69201	0.03002	-2.70056	0.61521	-0.00229	4.15754	0.55776	0.00467	0.77212
0.04229	2.43328	1.69286	0.03126	-2.66052	0.60997	-0.00236	3.93489	0.56517	0.00556	0.76837
0.04329	2.22636	1.69364	0.03257	-2.62169	0.60618	-0.00243	3.72527	0.57243	0.00651	0.76403
0.04431	2.02537	1.69372	0.03403	-2.58347	0.60360	-0.00249	3.52998	0.57945	0.00744	0.75960
0.04535	1.82948	1.69294	0.03556	-2.54545	0.60171	-0.00256	3.34678	0.58625	0.00831	0.75532

0.04642	1.64600	1.69180	0.03685	-2.50946	0.59981	-0.00262	3.17836	0.59278	0.00926	0.75036
0.04751	1.48887	1.69094	0.03765	-2.47870	0.59795	-0.00268	3.03409	0.59866	0.01043	0.74389
0.04863	1.36866	1.69039	0.03792	-2.45509	0.59708	-0.00272	2.92285	0.60335	0.01172	0.73647
0.04977	1.29000	1.68953	0.03771	-2.43876	0.59804	-0.00275	2.84928	0.60643	0.01297	0.72930
0.05094	1.25094	1.68783	0.03705	-2.42870	0.60092	-0.00278	2.81221	0.60778	0.01400	0.72352
0.05214	1.24234	1.68506	0.03604	-2.42296	0.60499	-0.00280	2.80416	0.60770	0.01467	0.72017
0.05337	1.24427	1.68130	0.03484	-2.41802	0.60868	-0.00282	2.80727	0.60705	0.01489	0.71964
0.05462	1.22954	1.67681	0.03367	-2.40936	0.61023	-0.00283	2.79656	0.60702	0.01477	0.72119
0.05591	1.17459	1.67171	0.03271	-2.39289	0.60884	-0.00285	2.75108	0.60863	0.01451	0.72370
0.05722	1.07452	1.66601	0.03201	-2.36766	0.60484	-0.00287	2.66779	0.61211	0.01417	0.72670
0.05857	0.94996	1.66007	0.03145	-2.33766	0.59916	-0.00290	2.56558	0.61671	0.01374	0.73040
0.05995	0.82643	1.65477	0.03088	-2.30838	0.59290	-0.00292	2.46566	0.62151	0.01329	0.73423
0.06136	0.71025	1.65095	0.03034	-2.28183	0.58681	-0.00294	2.37295	0.62630	0.01306	0.73667
0.06280	0.58909	1.64869	0.02999	-2.25585	0.58091	-0.00296	2.27840	0.63154	0.01316	0.73683
0.06428	0.45069	1.64758	0.02989	-2.22779	0.57492	-0.00300	2.17351	0.63771	0.01359	0.73486
0.06579	0.29596	1.64718	0.02996	-2.19752	0.56893	-0.00303	2.05955	0.64478	0.01425	0.73133
0.06734	0.13525	1.64718	0.03005	-2.16679	0.56391	-0.00308	1.94447	0.65226	0.01500	0.72713
0.06893	-0.02089	1.64713	0.03010	-2.13730	0.56179	-0.00313	1.83601	0.65951	0.01577	0.72266
0.07055	-0.16372	1.64653	0.03007	-2.11034	0.56433	-0.00318	1.73999	0.66592	0.01659	0.71784
0.07221	-0.29120	1.64483	0.02996	-2.08583	0.57185	-0.00324	1.65695	0.67125	0.01741	0.71282
0.07391	-0.40864	1.64146	0.02972	-2.06221	0.58348	-0.00331	1.58246	0.67569	0.01812	0.70832
0.07565	-0.52148	1.63612	0.02918	-2.03800	0.59757	-0.00338	1.51213	0.67962	0.01864	0.70487
0.07743	-0.63311	1.62906	0.02812	-2.01251	0.61216	-0.00345	1.44305	0.68340	0.01903	0.70227
0.07925	-0.74425	1.62082	0.02645	-1.98592	0.62599	-0.00352	1.37467	0.68727	0.01937	0.70005
0.08111	-0.84903	1.61187	0.02412	-1.95958	0.63851	-0.00359	1.31070	0.69097	0.01969	0.69821
0.08302	-0.93585	1.60250	0.02113	-1.93585	0.64960	-0.00364	1.25803	0.69385	0.01987	0.69743
0.08498	-0.99629	1.59298	0.01760	-1.91646	0.65973	-0.00368	1.22179	0.69528	0.01975	0.69876
0.08697	-1.03186	1.58341	0.01375	-1.90118	0.66955	-0.00371	1.20154	0.69516	0.01924	0.70290
0.08902	-1.05070	1.57362	0.00973	-1.88844	0.67882	-0.00373	1.19235	0.69394	0.01841	0.70943
0.09112	-1.06503	1.56349	0.00566	-1.87595	0.68626	-0.00375	1.18647	0.69242	0.01748	0.71682
0.09326	-1.08636	1.55306	0.00162	-1.86171	0.69065	-0.00376	1.17677	0.69142	0.01669	0.72348
0.09545	-1.12147	1.54260	-0.00230	-1.84476	0.69173	-0.00376	1.15927	0.69141	0.01615	0.72861
0.09770	-1.16809	1.53268	-0.00608	-1.82609	0.69069	-0.00376	1.13585	0.69225	0.01590	0.73203
0.10000	-1.21740	1.52408	-0.00976	-1.80812	0.68953	-0.00376	1.11238	0.69334	0.01600	0.73332
0.10235	-1.26504	1.51719	-0.01335	-1.79207	0.68945	-0.00376	1.09157	0.69436	0.01651	0.73195
0.10476	-1.31141	1.51163	-0.01680	-1.77762	0.69020	-0.00376	1.07257	0.69534	0.01736	0.72810
0.10723	-1.35622	1.50699	-0.02011	-1.76452	0.69121	-0.00376	1.05497	0.69626	0.01837	0.72291
0.10975	-1.39280	1.50329	-0.02333	-1.75403	0.69278	-0.00376	1.04258	0.69664	0.01936	0.71747
0.11233	-1.41225	1.50050	-0.02667	-1.74776	0.69552	-0.00375	1.04057	0.69579	0.02025	0.71248
0.11498	-1.41221	1.49821	-0.03028	-1.74576	0.69954	-0.00374	1.04986	0.69355	0.02103	0.70806
0.11768	-1.39149	1.49593	-0.03419	-1.74778	0.70512	-0.00373	1.07125	0.68979	0.02169	0.70448
0.12045	-1.35336	1.49323	-0.03824	-1.75266	0.71257	-0.00371	1.10419	0.68461	0.02212	0.70247
0.12328	-1.30026	1.49016	-0.04242	-1.75993	0.72160	-0.00369	1.14815	0.67823	0.02236	0.70174
0.12619	-1.23622	1.48703	-0.04671	-1.76918	0.73170	-0.00367	1.20102	0.67107	0.02256	0.70141
0.12916	-1.16342	1.48414	-0.05112	-1.78031	0.74254	-0.00364	1.26183	0.66339	0.02283	0.70068
0.13219	-1.08631	1.48159	-0.05556	-1.79269	0.75341	-0.00361	1.32764	0.65561	0.02325	0.69895
0.13531	-1.00528	1.47955	-0.05997	-1.80642	0.76352	-0.00357	1.39795	0.64784	0.02386	0.69599
0.13849	-0.91969	1.47842	-0.06431	-1.82198	0.77321	-0.00352	1.47397	0.64006	0.02472	0.69134
0.14175	-0.83448	1.47825	-0.06849	-1.83841	0.78231	-0.00347	1.55301	0.63255	0.02580	0.68513
0.14508	-0.75402	1.47859	-0.07246	-1.85438	0.79073	-0.00343	1.63192	0.62549	0.02686	0.67899
0.14850	-0.68466	1.47921	-0.07628	-1.86854	0.79709	-0.00338	1.70373	0.61936	0.02786	0.67322
0.15199	-0.63571	1.47941	-0.07995	-1.87848	0.80072	-0.00333	1.75946	0.61462	0.02865	0.66883
0.15557	-0.60387	1.47863	-0.08362	-1.88421	0.80091	-0.00328	1.80073	0.61098	0.02909	0.66684
0.15923	-0.59168	1.47641	-0.08736	-1.88486	0.79731	-0.00323	1.82486	0.60847	0.02926	0.66686
0.16298	-0.59321	1.47368	-0.09114	-1.88245	0.79151	-0.00318	1.83673	0.60677	0.02933	0.66779
0.16681	-0.59584	1.47155	-0.09496	-1.88042	0.78556	-0.00312	1.84779	0.60522	0.02934	0.66953
0.17074	-0.59947	1.47033	-0.09874	-1.87900	0.78111	-0.00308	1.85928	0.60372	0.02927	0.67205
0.17475	-0.61847	1.46928	-0.10231	-1.87501	0.77638	-0.00304	1.85729	0.60313	0.02913	0.67516
0.17887	-0.67640	1.46693	-0.10544	-1.86287	0.76728	-0.00299	1.81937	0.60481	0.02886	0.67904
0.18307	-0.73872	1.46544	-0.10847	-1.85084	0.75726	-0.00295	1.77850	0.60685	0.02868	0.68221
0.18738	-0.79687	1.46492	-0.11143	-1.84029	0.75015	-0.00292	1.74546	0.60844	0.02850	0.68508
0.19179	-0.86094	1.46505	-0.11428	-1.82926	0.74385	-0.00291	1.70976	0.61027	0.02831	0.68757
0.19631	-0.93836	1.46551	-0.11705	-1.81609	0.73967	-0.00290	1.66613	0.61261	0.02819	0.68918
0.20092	-1.03277	1.46553	-0.11978	-1.79942	0.73744	-0.00292	1.61179	0.61561	0.02815	0.68990
0.20565	-1.14965	1.46498	-0.12243	-1.77819	0.73553	-0.00295	1.54151	0.61978	0.02818	0.68991
0.21049	-1.29003	1.46285	-0.12496	-1.75130	0.73121	-0.00298	1.45385	0.62536	0.02807	0.69071
0.21544	-1.42560	1.46148	-0.12762	-1.72625	0.72821	-0.00302	1.37369	0.63066	0.02816	0.69031
0.22051	-1.56722	1.45900	-0.13053	-1.69954	0.72400	-0.00305	1.28945	0.63643	0.02828	0.68985
0.22570	-1.69265	1.45942	-0.13354	-1.67912	0.72330	-0.00309	1.22168	0.64123	0.02865	0.68784
0.23101	-1.82563	1.45852	-0.13652	-1.65626	0.72434	-0.00313	1.15095	0.64631	0.02880	0.68747
0.23645	-1.95503	1.45645	-0.13976	-1.63318	0.72689	-0.00318	1.08463	0.65095	0.02863	0.68943
0.24201	-2.08254	1.45420	-0.14316	-1.61055	0.72866	-0.00322	1.02167	0.65548	0.02839	0.69185
0.24771	-2.20543	1.45207	-0.14664	-1.58905	0.73145	-0.00326	0.96514	0.65950	0.02787	0.69606
0.25354	-2.30978	1.45103	-0.15040	-1.57223	0.73595	-0.00330	0.92368	0.66194	0.02702	0.70245
0.25950	-2.42389	1.44857	-0.15407	-1.55215	0.73999	-0.00335	0.87817	0.66485	0.02587	0.71072
0.26561	-2.53352	1.44657	-0.15784	-1.53369	0.74286	-0.00338	0.83709	0.66739	0.02480	0.71848
0.27186	-2.63188	1.44479	-0.16205	-1.51791	0.74511	-0.00341	0.80376	0.66893	0.02389	0.72514
0.27826	-2.72098	1.44440	-0.16631	-1.50538	0.74922	-0.00344	0.77947	0.66931	0.02305	0.73132
0.28480	-2.80230	1.44450	-0.17088	-1.49523	0.74982	-0.00345	0.76040	0.66898	0.02235	0.73637
0.29150	-2.88759	1.44466	-0.17545	-1.48458	0.74874	-0.00345	0.74098	0.66870	0.02172	0.74075
0.29836	-2.97750	1.44419	-0.18015	-1.47266	0.74536	-0.00345	0.71965	0.66859	0.02109	0.74489

0.30539	-3.06448	1.44451	-0.18499	-1.46232	0.74190	-0.00344	0.70217	0.66789	0.02056	0.74816
0.31257	-3.15033	1.44622	-0.18982	-1.45379	0.73895	-0.00343	0.68802	0.66681	0.02023	0.74981
0.31993	-3.22857	1.44901	-0.19486	-1.44818	0.73593	-0.00342	0.67990	0.66474	0.01998	0.75074
0.32745	-3.30884	1.45188	-0.19979	-1.44252	0.73186	-0.00340	0.67212	0.66250	0.01974	0.75132
0.33517	-3.39275	1.45557	-0.20456	-1.43728	0.72720	-0.00338	0.66430	0.66034	0.01957	0.75103
0.34304	-3.47507	1.46080	-0.20915	-1.43424	0.72333	-0.00335	0.65977	0.65775	0.01954	0.74938
0.35112	-3.55598	1.46638	-0.21380	-1.43190	0.72025	-0.00334	0.65809	0.65459	0.01952	0.74747
0.35938	-3.64867	1.47140	-0.21821	-1.42687	0.71619	-0.00332	0.65063	0.65232	0.01963	0.74452
0.36784	-3.73941	1.47596	-0.22300	-1.42202	0.71141	-0.00330	0.64447	0.64959	0.01978	0.74141
0.37649	-3.83316	1.47990	-0.22799	-1.41615	0.70694	-0.00327	0.63715	0.64676	0.01988	0.73867
0.38536	-3.92763	1.48440	-0.23297	-1.41092	0.70257	-0.00324	0.63093	0.64374	0.02022	0.73417
0.39442	-4.02592	1.48794	-0.23796	-1.40414	0.69587	-0.00321	0.62273	0.64080	0.02062	0.72924
0.40370	-4.12429	1.49369	-0.24270	-1.39960	0.69422	-0.00319	0.61863	0.63738	0.02139	0.72156
0.41321	-4.22370	1.49985	-0.24738	-1.39546	0.69245	-0.00318	0.61533	0.63383	0.02241	0.71204
0.42292	-4.32208	1.50530	-0.25226	-1.39084	0.69036	-0.00316	0.61281	0.62988	0.02330	0.70352
0.43288	-4.42095	1.51078	-0.25718	-1.38616	0.68898	-0.00314	0.61174	0.62551	0.02423	0.69490
0.44307	-4.51927	1.51640	-0.26208	-1.38167	0.68760	-0.00312	0.61290	0.62066	0.02518	0.68614
0.45349	-4.61507	1.52082	-0.26720	-1.37646	0.68441	-0.00310	0.61587	0.61510	0.02600	0.67846
0.46417	-4.70889	1.52511	-0.27234	-1.37146	0.68144	-0.00308	0.62219	0.60875	0.02690	0.67027
0.47508	-4.79931	1.52939	-0.27752	-1.36707	0.67890	-0.00305	0.63314	0.60136	0.02784	0.66200
0.48626	-4.88639	1.53347	-0.28274	-1.36305	0.67691	-0.00302	0.64865	0.59301	0.02873	0.65426
0.49771	-4.96924	1.53701	-0.28804	-1.35929	0.67524	-0.00300	0.66848	0.58378	0.02953	0.64746
0.50942	-5.04981	1.54032	-0.29331	-1.35569	0.67390	-0.00297	0.69227	0.57384	0.03022	0.64153
0.52140	-5.12900	1.54410	-0.29843	-1.35278	0.67365	-0.00295	0.72060	0.56329	0.03088	0.63603
0.53367	-5.20666	1.54813	-0.30341	-1.35039	0.67412	-0.00292	0.75338	0.55223	0.03147	0.63116
0.54624	-5.28101	1.55205	-0.30830	-1.34858	0.67514	-0.00290	0.79112	0.54065	0.03194	0.62719
0.55910	-5.35151	1.55595	-0.31305	-1.34757	0.67688	-0.00288	0.83483	0.52852	0.03229	0.62402
0.57225	-5.41946	1.56028	-0.31757	-1.34754	0.67950	-0.00286	0.88524	0.51588	0.03256	0.62133
0.58569	-5.48517	1.56513	-0.32187	-1.34851	0.68344	-0.00283	0.94267	0.50286	0.03275	0.61917
0.59948	-5.54907	1.57020	-0.32602	-1.35015	0.68819	-0.00281	1.00651	0.48961	0.03288	0.61752
0.61357	-5.61074	1.57514	-0.33005	-1.35213	0.69345	-0.00279	1.07579	0.47635	0.03290	0.61667
0.62802	-5.67230	1.58010	-0.33394	-1.35424	0.69888	-0.00277	1.15019	0.46312	0.03285	0.61651
0.64280	-5.73709	1.58550	-0.33755	-1.35609	0.70395	-0.00275	1.22783	0.45020	0.03276	0.61672
0.65794	-5.80646	1.59149	-0.34088	-1.35758	0.70886	-0.00273	1.30790	0.43765	0.03266	0.61720
0.67340	-5.87860	1.59778	-0.34401	-1.35875	0.71360	-0.00271	1.39024	0.42550	0.03255	0.61807
0.68927	-5.95196	1.60403	-0.34703	-1.35968	0.71816	-0.00269	1.47552	0.41364	0.03242	0.61955
0.70547	-6.02541	1.61017	-0.34992	-1.36048	0.72257	-0.00268	1.56384	0.40207	0.03226	0.62159
0.72207	-6.10053	1.61659	-0.35264	-1.36124	0.72701	-0.00266	1.65621	0.39071	0.03207	0.62385
0.73910	-6.17872	1.62365	-0.35511	-1.36199	0.73159	-0.00264	1.75259	0.37961	0.03188	0.62592
0.75649	-6.26061	1.63131	-0.35732	-1.36255	0.73612	-0.00263	1.85105	0.36892	0.03170	0.62741
0.77429	-6.34536	1.63928	-0.35934	-1.36280	0.74043	-0.00261	1.95093	0.35863	0.03155	0.62805
0.79246	-6.43120	1.64717	-0.36123	-1.36274	0.74434	-0.00259	2.05148	0.34878	0.03141	0.62761
0.81116	-6.51878	1.65497	-0.36302	-1.36234	0.74784	-0.00258	2.15327	0.33925	0.03129	0.62626
0.83022	-6.60826	1.66286	-0.36462	-1.36162	0.75097	-0.00256	2.25491	0.33015	0.03117	0.62429
0.84976	-6.70169	1.67126	-0.36598	-1.36062	0.75389	-0.00255	2.35679	0.32143	0.03105	0.62196
0.86972	-6.79942	1.68032	-0.36705	-1.35938	0.75667	-0.00254	2.45802	0.31315	0.03091	0.61964
0.89023	-6.90173	1.69000	-0.36789	-1.35783	0.75927	-0.00252	2.55855	0.30526	0.03075	0.61781
0.91116	-7.00637	1.69988	-0.36854	-1.35599	0.76157	-0.00251	2.65706	0.29781	0.03056	0.61699
0.93257	-7.11207	1.70968	-0.36909	-1.35387	0.76352	-0.00250	2.75386	0.29074	0.03032	0.61728
0.95456	-7.21864	1.71931	-0.36956	-1.35151	0.76512	-0.00249	2.84908	0.28400	0.03005	0.61869
0.97704	-7.32620	1.72887	-0.36992	-1.34891	0.76645	-0.00248	2.94194	0.27761	0.02974	0.62114
1.00000	-7.43587	1.73864	-0.37013	-1.34611	0.76763	-0.00247	3.03209	0.27158	0.02939	0.62454
1.02354	-7.54919	1.74893	-0.37015	-1.34311	0.76877	-0.00246	3.11942	0.26589	0.02900	0.62876
1.04767	-7.66655	1.75981	-0.36995	-1.33990	0.76991	-0.00245	3.20326	0.26054	0.02857	0.63369
1.07227	-7.78681	1.77112	-0.36957	-1.33646	0.77100	-0.00244	3.28273	0.25556	0.02811	0.63916
1.09745	-7.90931	1.78261	-0.36907	-1.33279	0.77198	-0.00243	3.35775	0.25091	0.02763	0.64509
1.12334	-8.03338	1.79408	-0.36850	-1.32884	0.77276	-0.00242	3.42822	0.24654	0.02714	0.65144
1.14982	-8.15746	1.80528	-0.36790	-1.32469	0.77331	-0.00242	3.49382	0.24247	0.02665	0.65809
1.17675	-8.28086	1.81616	-0.36726	-1.32037	0.77365	-0.00241	3.55398	0.23871	0.02615	0.66486
1.20453	-8.40595	1.82704	-0.36654	-1.31585	0.77384	-0.00240	3.60959	0.23520	0.02566	0.67171
1.23289	-8.53233	1.83802	-0.36571	-1.31120	0.77400	-0.00240	3.66023	0.23197	0.02516	0.67838
1.26183	-8.66078	1.84930	-0.36473	-1.30644	0.77419	-0.00239	3.70590	0.22900	0.02467	0.68482
1.29149	-8.79237	1.86105	-0.36356	-1.30156	0.77446	-0.00239	3.74686	0.22628	0.02416	0.69111
1.32188	-8.92700	1.87326	-0.36221	-1.29654	0.77479	-0.00238	3.78320	0.22380	0.02365	0.69733
1.35300	-9.06393	1.88582	-0.36071	-1.29144	0.77516	-0.00238	3.81530	0.22154	0.02313	0.70357
1.38485	-9.20209	1.89853	-0.35909	-1.28629	0.77556	-0.00238	3.84360	0.21947	0.02261	0.70995
1.41743	-9.34077	1.91119	-0.35738	-1.28104	0.77587	-0.00238	3.86743	0.21761	0.02209	0.71658
1.45075	-9.47908	1.92364	-0.35561	-1.27573	0.77605	-0.00237	3.88710	0.21594	0.02159	0.72352
1.48500	-9.61747	1.93590	-0.35379	-1.27034	0.77610	-0.00237	3.90263	0.21446	0.02110	0.73081
1.51999	-9.75501	1.94789	-0.35192	-1.26493	0.77604	-0.00237	3.91402	0.21318	0.02063	0.73839
1.55569	-9.89199	1.95973	-0.34997	-1.25954	0.77590	-0.00237	3.92141	0.21209	0.02016	0.74624
1.59236	-10.02972	1.97162	-0.34791	-1.25417	0.77576	-0.00237	3.92521	0.21120	0.01969	0.75440
1.62973	-10.16769	1.98362	-0.34573	-1.24890	0.77569	-0.00236	3.92581	0.21049	0.01922	0.76278
1.66806	-10.30716	1.99592	-0.34339	-1.24371	0.77573	-0.00236	3.92359	0.20997	0.01874	0.77144
1.70736	-10.44828	2.00860	-0.34089	-1.23863	0.77592	-0.00236	3.91883	0.20962	0.01825	0.78037
1.74764	-10.59095	2.02164	-0.33822	-1.23367	0.77627	-0.00236	3.91186	0.20945	0.01774	0.78957
1.78859	-10.73375	2.03490	-0.33542	-1.22889	0.77679	-0.00236	3.90305	0.20942	0.01724	0.79896
1.83083	-10.87848	2.04849	-0.33247	-1.22419	0.77742	-0.00236	3.89214	0.20954	0.01672	0.80868
1.87371	-11.02237	2.06207	-0.32944	-1.21962	0.77814	-0.00236	3.87930	0.20979	0.01620	0.81856
1.91791	-11.16713	2.07575	-0.32631	-1.21512	0.77890	-0.00235	3.86436	0.21018	0.01569	0.82869
1.96309	-11.31109	2.08931	-0.32313	-1.21072	0.77968	-0.00235	3.84747	0.21070	0.01518	0.83888

2.00924	-11.45387	2.10266	-0.31990	-1.20641	0.78045	-0.00235	3.82863	0.21133	0.01468	0.84900
2.05634	-11.59517	2.11575	-0.31665	-1.20221	0.78120	-0.00235	3.80799	0.21208	0.01420	0.85889
2.10482	-11.73618	2.12868	-0.31334	-1.19807	0.78193	-0.00235	3.78539	0.21293	0.01373	0.86850
2.15424	-11.87569	2.14137	-0.31000	-1.19401	0.78264	-0.00235	3.76119	0.21388	0.01328	0.87753
2.20507	-12.01511	2.15396	-0.30659	-1.19004	0.78338	-0.00235	3.73548	0.21493	0.01285	0.88596
2.25683	-12.15334	2.16641	-0.30313	-1.18619	0.78415	-0.00234	3.70878	0.21606	0.01243	0.89376
2.31000	-12.29188	2.17888	-0.29957	-1.18243	0.78500	-0.00234	3.68117	0.21725	0.01201	0.90109
2.36463	-12.43095	2.19145	-0.29591	-1.17877	0.78595	-0.00234	3.65280	0.21852	0.01160	0.90807
2.42014	-12.56929	2.20403	-0.29217	-1.17525	0.78701	-0.00234	3.62428	0.21983	0.01120	0.91473
2.47709	-12.70832	2.21676	-0.28830	-1.17186	0.78820	-0.00234	3.59570	0.22119	0.01080	0.92132
2.53550	-12.84810	2.22967	-0.28432	-1.16857	0.78953	-0.00234	3.56703	0.22259	0.01039	0.92798
2.59471	-12.98711	2.24261	-0.28028	-1.16541	0.79096	-0.00233	3.53870	0.22399	0.00999	0.93478
2.65604	-13.12811	2.25582	-0.27607	-1.16236	0.79254	-0.00233	3.51055	0.22543	0.00959	0.94195
2.71887	-13.26949	2.26916	-0.27178	-1.15939	0.79424	-0.00233	3.48271	0.22687	0.00918	0.94943
2.78242	-13.40938	2.28242	-0.26744	-1.15657	0.79602	-0.00233	3.45572	0.22830	0.00878	0.95721
2.84819	-13.55034	2.29583	-0.26297	-1.15391	0.79797	-0.00233	3.42983	0.22973	0.00838	0.96555
2.91545	-13.69125	2.30925	-0.25847	-1.15126	0.79994	-0.00233	3.40382	0.23116	0.00799	0.97438
2.98329	-13.82931	2.32237	-0.25393	-1.14884	0.80198	-0.00232	3.37948	0.23255	0.00761	0.98352
3.05344	-13.96827	2.33556	-0.24937	-1.14642	0.80405	-0.00232	3.35506	0.23393	0.00723	0.99293
3.12598	-14.10758	2.34872	-0.24466	-1.14418	0.80622	-0.00232	3.33172	0.23532	0.00686	1.00246
3.19898	-14.24356	2.36149	-0.24005	-1.14199	0.80834	-0.00232	3.30906	0.23665	0.00651	1.01155
3.27439	-14.37973	2.37421	-0.23533	-1.13998	0.81054	-0.00232	3.28731	0.23799	0.00617	1.02021
3.35121	-14.51394	2.38664	-0.23067	-1.13800	0.81270	-0.00231	3.26607	0.23928	0.00585	1.02813
3.43053	-14.64820	2.39900	-0.22589	-1.13621	0.81492	-0.00231	3.24581	0.24058	0.00554	1.03569
3.51124	-14.78037	2.41106	-0.22121	-1.13441	0.81708	-0.00231	3.22583	0.24183	0.00524	1.04299
3.59324	-14.91046	2.42279	-0.21643	-1.13284	0.81925	-0.00230	3.20702	0.24307	0.00494	1.05041
3.67782	-15.04071	2.43452	-0.21177	-1.13113	0.82137	-0.00230	3.18795	0.24426	0.00466	1.05829
3.76506	-15.16969	2.44596	-0.20683	-1.12992	0.82367	-0.00230	3.17168	0.24546	0.00436	1.06719
3.85356	-15.29830	2.45745	-0.20219	-1.12832	0.82576	-0.00229	3.15354	0.24659	0.00409	1.07666
3.94477	-15.42440	2.46844	-0.19721	-1.12736	0.82810	-0.00229	3.13931	0.24773	0.00381	1.08694
4.03714	-15.55089	2.47966	-0.19249	-1.12604	0.83024	-0.00228	3.12321	0.24880	0.00355	1.09730
4.13223	-15.67521	2.49043	-0.18766	-1.12503	0.83250	-0.00228	3.10942	0.24984	0.00329	1.10783
4.23012	-15.79987	2.50128	-0.18260	-1.12433	0.83488	-0.00227	3.09720	0.25090	0.00302	1.11820
4.32900	-15.92412	2.51219	-0.17800	-1.12303	0.83697	-0.00227	3.08251	0.25183	0.00280	1.12763
4.43066	-16.04403	2.52235	-0.17287	-1.12280	0.83948	-0.00226	3.07383	0.25281	0.00253	1.13675
4.53515	-16.16812	2.53325	-0.16799	-1.12194	0.84175	-0.00225	3.06191	0.25371	0.00230	1.14505
4.64253	-16.29043	2.54378	-0.16324	-1.12107	0.84400	-0.00225	3.05081	0.25455	0.00209	1.15274
4.75059	-16.40692	2.55359	-0.15797	-1.12134	0.84667	-0.00224	3.04566	0.25544	0.00183	1.16005
4.86145	-16.52938	2.56443	-0.15327	-1.12042	0.84885	-0.00224	3.03487	0.25619	0.00163	1.16648
4.97760	-16.64966	2.57463	-0.14839	-1.11996	0.85125	-0.00223	3.02721	0.25693	0.00141	1.17273
5.09424	-16.76430	2.58420	-0.14296	-1.12068	0.85408	-0.00222	3.02522	0.25775	0.00115	1.17878
5.21376	-16.88645	2.59506	-0.13828	-1.11985	0.85628	-0.00222	3.01638	0.25836	0.00096	1.18401
5.33618	-17.00308	2.60491	-0.13363	-1.11943	0.85859	-0.00221	3.01044	0.25894	0.00076	1.18910
5.46150	-17.11340	2.61382	-0.12808	-1.12072	0.86159	-0.00220	3.01217	0.25971	0.00048	1.19455
5.58971	-17.23259	2.62430	-0.12322	-1.12044	0.86397	-0.00220	3.00728	0.26023	0.00029	1.19944
5.72082	-17.35109	2.63457	-0.11899	-1.11940	0.86596	-0.00219	3.00032	0.26057	0.00013	1.20415
5.85823	-17.45872	2.64285	-0.11342	-1.12106	0.86907	-0.00218	3.00461	0.26128	-0.00015	1.20999
5.99520	-17.57000	2.65215	-0.10813	-1.12203	0.87186	-0.00218	3.00627	0.26186	-0.00040	1.21561
6.13497	-17.69022	2.66292	-0.10403	-1.12079	0.87370	-0.00217	3.00021	0.26199	-0.00052	1.22063
6.28141	-17.80026	2.67165	-0.09945	-1.12103	0.87609	-0.00216	3.00043	0.26233	-0.00072	1.22643
6.42674	-17.89816	2.67883	-0.09381	-1.12355	0.87934	-0.00215	3.00871	0.26307	-0.00103	1.23294
6.57895	-18.01037	2.68827	-0.08876	-1.12427	0.88194	-0.00214	3.01115	0.26343	-0.00125	1.23914
6.73401	-18.13139	2.69908	-0.08505	-1.12258	0.88345	-0.00213	3.00689	0.26319	-0.00132	1.24466
6.89180	-18.23261	2.70655	-0.08062	-1.12337	0.88583	-0.00213	3.01056	0.26347	-0.00153	1.25109
7.05716	-18.32650	2.71282	-0.07478	-1.12668	0.88933	-0.00212	3.02162	0.26432	-0.00186	1.25854
7.22022	-18.43008	2.72110	-0.06990	-1.12789	0.89189	-0.00211	3.02722	0.26461	-0.00208	1.26499
7.39098	-18.55022	2.73179	-0.06627	-1.12623	0.89326	-0.00210	3.02663	0.26409	-0.00214	1.27047
7.56430	-18.65610	2.73997	-0.06281	-1.12547	0.89482	-0.00209	3.02894	0.26376	-0.00224	1.27594
7.73994	-18.73536	2.74409	-0.05736	-1.12947	0.89829	-0.00209	3.04041	0.26484	-0.00259	1.28259
7.92393	-18.82880	2.75048	-0.05209	-1.13217	0.90133	-0.00208	3.05056	0.26541	-0.00287	1.28848
8.11030	-18.93479	2.75901	-0.04776	-1.13263	0.90339	-0.00207	3.05692	0.26529	-0.00303	1.29316
8.29876	-19.05569	2.76981	-0.04504	-1.12966	0.90386	-0.00206	3.05958	0.26395	-0.00299	1.29631
8.49618	-19.14997	2.77592	-0.04151	-1.13010	0.90564	-0.00205	3.06623	0.26380	-0.00313	1.30042
8.69565	-19.21720	2.77809	-0.03594	-1.13544	0.90950	-0.00204	3.07755	0.26540	-0.00354	1.30596
8.90472	-19.30624	2.78368	-0.03099	-1.13825	0.91237	-0.00204	3.08849	0.26592	-0.00381	1.31057
9.11577	-19.40379	2.79077	-0.02668	-1.13947	0.91451	-0.00203	3.09815	0.26585	-0.00399	1.31457
9.32836	-19.52541	2.80170	-0.02393	-1.13653	0.91473	-0.00201	3.10768	0.26406	-0.00394	1.31719
9.54198	-19.63193	2.80999	-0.02180	-1.13392	0.91485	-0.00200	3.11917	0.26227	-0.00389	1.32006
9.76563	-19.68760	2.81017	-0.01707	-1.13937	0.91852	-0.00200	3.12337	0.26436	-0.00427	1.32614
10.00000	-19.75258	2.81192	-0.01183	-1.14473	0.92228	-0.00199	3.13333	0.26596	-0.00465	1.33279

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
High stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 15 - 30 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.80304	3.40118	-0.04101	-1.68688	1.00310	-0.00096	1.10099	0.45671	-0.01738	0.33467
PGV	4.25533	1.77918	-0.07459	-2.68510	1.40651	-0.00185	8.75178	0.31476	-0.02466	0.52380
PGA	1.91602	1.62924	-0.04157	-2.68227	0.99139	-0.00203	4.52020	0.50121	-0.03240	0.77006
0.01000	2.83527	1.65297	-0.03682	-2.86245	0.98757	-0.00181	5.54792	0.48216	-0.01257	0.75494
0.01024	2.84708	1.65676	-0.03557	-2.86664	0.98061	-0.00180	5.54149	0.48357	-0.01272	0.75646
0.01048	2.86384	1.66055	-0.03433	-2.87173	0.97381	-0.00178	5.54003	0.48485	-0.01289	0.75806
0.01072	2.88526	1.66433	-0.03310	-2.87765	0.96715	-0.00176	5.54317	0.48603	-0.01308	0.75972
0.01097	2.90992	1.66812	-0.03185	-2.88416	0.96056	-0.00174	5.54908	0.48713	-0.01328	0.76144
0.01123	2.93562	1.67188	-0.03060	-2.89084	0.95398	-0.00172	5.55502	0.48823	-0.01349	0.76319
0.01150	2.96276	1.67565	-0.02934	-2.89777	0.94740	-0.00170	5.56158	0.48930	-0.01372	0.76497
0.01177	2.99272	1.67943	-0.02807	-2.90520	0.94081	-0.00168	5.57040	0.49033	-0.01396	0.76685
0.01205	3.02321	1.68321	-0.02678	-2.91271	0.93420	-0.00166	5.57871	0.49136	-0.01421	0.76878
0.01233	3.05604	1.68702	-0.02547	-2.92063	0.92761	-0.00164	5.58888	0.49236	-0.01447	0.77070
0.01262	3.09589	1.69088	-0.02415	-2.92983	0.92102	-0.00162	5.60663	0.49321	-0.01475	0.77274
0.01292	3.13760	1.69477	-0.02283	-2.93932	0.91423	-0.00159	5.62561	0.49404	-0.01504	0.77486
0.01322	3.17412	1.69857	-0.02149	-2.94776	0.90720	-0.00157	5.63759	0.49501	-0.01531	0.77684
0.01353	3.20733	1.70231	-0.02015	-2.95552	0.90009	-0.00155	5.64516	0.49608	-0.01558	0.77876
0.01385	3.24366	1.70609	-0.01879	-2.96383	0.89300	-0.00153	5.65579	0.49708	-0.01588	0.78093
0.01417	3.28378	1.70994	-0.01742	-2.97282	0.88589	-0.00151	5.66999	0.49802	-0.01620	0.78328
0.01451	3.32312	1.71380	-0.01606	-2.98163	0.87865	-0.00149	5.68208	0.49901	-0.01651	0.78554
0.01485	3.35872	1.71767	-0.01468	-2.98977	0.87119	-0.00147	5.68802	0.50014	-0.01680	0.78773
0.01520	3.38710	1.72152	-0.01326	-2.99659	0.86346	-0.00145	5.68381	0.50149	-0.01710	0.79001
0.01556	3.40630	1.72532	-0.01180	-3.00167	0.85556	-0.00143	5.66808	0.50308	-0.01738	0.79230
0.01592	3.42429	1.72910	-0.01031	-3.00642	0.84758	-0.00141	5.65119	0.50471	-0.01767	0.79466
0.01630	3.45177	1.73297	-0.00882	-3.01280	0.83959	-0.00139	5.64573	0.50612	-0.01801	0.79743
0.01668	3.48485	1.73693	-0.00729	-3.02018	0.83152	-0.00138	5.64610	0.50743	-0.01840	0.80059
0.01707	3.50791	1.74089	-0.00569	-3.02574	0.82318	-0.00136	5.63340	0.50903	-0.01875	0.80354
0.01748	3.51784	1.74479	-0.00405	-3.02890	0.81460	-0.00135	5.60472	0.51097	-0.01898	0.80578
0.01789	3.52714	1.74870	-0.00245	-3.03192	0.80599	-0.00133	5.57539	0.51293	-0.01912	0.80745
0.01831	3.54178	1.75269	-0.00090	-3.03592	0.79742	-0.00132	5.55185	0.51477	-0.01926	0.80906
0.01874	3.55815	1.75675	0.00070	-3.04026	0.78893	-0.00130	5.52967	0.51660	-0.01945	0.81108
0.01918	3.57112	1.76083	0.00240	-3.04386	0.78001	-0.00129	5.50341	0.51855	-0.01972	0.81360
0.01963	3.57342	1.76483	0.00415	-3.04538	0.77034	-0.00128	5.46448	0.52082	-0.01998	0.81609
0.02009	3.56107	1.76874	0.00593	-3.04423	0.76061	-0.00127	5.40861	0.52346	-0.02017	0.81815
0.02057	3.53542	1.77260	0.00776	-3.04075	0.75149	-0.00127	5.33856	0.52639	-0.02031	0.81986
0.02105	3.50600	1.77651	0.00965	-3.03664	0.74280	-0.00127	5.26521	0.52941	-0.02040	0.82121
0.02154	3.48342	1.78050	0.01156	-3.03371	0.73386	-0.00127	5.19998	0.53230	-0.02045	0.82223
0.02205	3.46710	1.78454	0.01345	-3.03164	0.72388	-0.00126	5.14246	0.53511	-0.02050	0.82333
0.02257	3.44443	1.78865	0.01534	-3.02824	0.71287	-0.00126	5.07865	0.53817	-0.02056	0.82457
0.02310	3.40584	1.79296	0.01726	-3.02209	0.70172	-0.00126	4.99769	0.54171	-0.02057	0.82549
0.02364	3.35276	1.79738	0.01923	-3.01352	0.69101	-0.00126	4.90180	0.54565	-0.02053	0.82614
0.02420	3.28887	1.80164	0.02131	-3.00294	0.68081	-0.00127	4.79663	0.54982	-0.02050	0.82690
0.02477	3.22177	1.80560	0.02343	-2.99155	0.67118	-0.00128	4.69170	0.55400	-0.02052	0.82785
0.02535	3.16918	1.80948	0.02547	-2.98251	0.66162	-0.00129	4.60507	0.55774	-0.02053	0.82876
0.02595	3.13861	1.81354	0.02738	-2.97725	0.65129	-0.00130	4.54242	0.56097	-0.02052	0.82957
0.02656	3.10947	1.81782	0.02933	-2.97223	0.63984	-0.00130	4.48106	0.56428	-0.02049	0.83022
0.02719	3.05623	1.82232	0.03141	-2.96312	0.62782	-0.00130	4.39503	0.56837	-0.02037	0.83035
0.02783	2.97836	1.82701	0.03355	-2.94990	0.61610	-0.00131	4.28516	0.57319	-0.02017	0.83006
0.02848	2.89253	1.83169	0.03560	-2.93529	0.60484	-0.00133	4.17013	0.57823	-0.02000	0.83003
0.02915	2.81024	1.83622	0.03759	-2.92106	0.59386	-0.00134	4.06308	0.58310	-0.01989	0.83048
0.02984	2.73368	1.84069	0.03968	-2.90761	0.58324	-0.00136	3.96647	0.58773	-0.01975	0.83075
0.03054	2.66095	1.84514	0.04191	-2.89472	0.57259	-0.00137	3.87664	0.59224	-0.01949	0.83031
0.03126	2.58443	1.84961	0.04421	-2.88115	0.56112	-0.00139	3.78372	0.59695	-0.01913	0.82940
0.03199	2.48636	1.85404	0.04645	-2.86392	0.54912	-0.00141	3.67071	0.60243	-0.01880	0.82869
0.03275	2.36254	1.85832	0.04859	-2.84223	0.53792	-0.00143	3.53716	0.60867	-0.01856	0.82874
0.03352	2.23427	1.86257	0.05068	-2.81971	0.52865	-0.00146	3.40621	0.61492	-0.01845	0.82965
0.03430	2.12415	1.86725	0.05282	-2.80053	0.52106	-0.00150	3.29749	0.62050	-0.01836	0.83087
0.03511	2.02996	1.87243	0.05517	-2.78443	0.51398	-0.00153	3.20638	0.62558	-0.01821	0.83175
0.03594	1.92547	1.87757	0.05784	-2.76649	0.50604	-0.00156	3.10910	0.63106	-0.01804	0.83245
0.03678	1.79146	1.88194	0.06061	-2.74291	0.49605	-0.00159	2.98869	0.63762	-0.01789	0.83332
0.03765	1.62836	1.88510	0.06312	-2.71356	0.48410	-0.00162	2.84608	0.64529	-0.01775	0.83423
0.03854	1.45435	1.88720	0.06525	-2.68181	0.47222	-0.00165	2.69814	0.65335	-0.01759	0.83506
0.03944	1.29546	1.88888	0.06709	-2.65264	0.46234	-0.00168	2.56644	0.66081	-0.01746	0.83613
0.04037	1.16611	1.89059	0.06887	-2.62860	0.45493	-0.00171	2.46243	0.66707	-0.01742	0.83793
0.04132	1.06005	1.89229	0.07080	-2.60818	0.44944	-0.00175	2.38229	0.67223	-0.01751	0.84052
0.04229	0.96365	1.89400	0.07281	-2.58897	0.44532	-0.00178	2.31532	0.67681	-0.01758	0.84310
0.04329	0.86946	1.89597	0.07462	-2.57019	0.44237	-0.00183	2.25302	0.68122	-0.01746	0.84432
0.04431	0.77398	1.89809	0.07619	-2.55154	0.44032	-0.00187	2.19016	0.68570	-0.01708	0.84376
0.04535	0.66994	1.89942	0.07768	-2.53116	0.43794	-0.00191	2.12019	0.69059	-0.01664	0.84266

0.04642	0.54986	1.89928	0.07919	-2.50718	0.43352	-0.00194	2.03719	0.69633	-0.01630	0.84192
0.04751	0.41870	1.89794	0.08067	-2.48051	0.42683	-0.00197	1.94592	0.70278	-0.01604	0.84152
0.04863	0.28806	1.89639	0.08202	-2.45376	0.41961	-0.00199	1.85712	0.70934	-0.01581	0.84116
0.04977	0.16692	1.89548	0.08310	-2.42924	0.41432	-0.00202	1.77827	0.71542	-0.01550	0.84018
0.05094	0.05754	1.89516	0.08387	-2.40748	0.41238	-0.00206	1.71047	0.72076	-0.01497	0.83767
0.05214	-0.03690	1.89476	0.08428	-2.38851	0.41403	-0.00210	1.65488	0.72509	-0.01420	0.83348
0.05337	-0.11224	1.89388	0.08441	-2.37251	0.41841	-0.00215	1.61364	0.72819	-0.01329	0.82849
0.05462	-0.16568	1.89231	0.08434	-2.35960	0.42427	-0.00219	1.58770	0.72996	-0.01237	0.82353
0.05591	-0.20409	1.88972	0.08424	-2.34821	0.43118	-0.00223	1.57309	0.73068	-0.01157	0.81960
0.05722	-0.23623	1.88553	0.08408	-2.33638	0.43898	-0.00228	1.56394	0.73076	-0.01109	0.81786
0.05857	-0.26953	1.87966	0.08367	-2.32299	0.44676	-0.00232	1.55348	0.73075	-0.01096	0.81859
0.05995	-0.30322	1.87303	0.08278	-2.30926	0.45380	-0.00236	1.53940	0.73095	-0.01101	0.82068
0.06136	-0.33887	1.86688	0.08152	-2.29606	0.46042	-0.00240	1.52098	0.73154	-0.01109	0.82300
0.06280	-0.38179	1.86161	0.08028	-2.28249	0.46653	-0.00243	1.49704	0.73274	-0.01116	0.82537
0.06428	-0.42739	1.85668	0.07916	-2.26863	0.47084	-0.00245	1.47013	0.73440	-0.01112	0.82718
0.06579	-0.48415	1.85226	0.07839	-2.25302	0.47171	-0.00247	1.43587	0.73704	-0.01077	0.82694
0.06734	-0.55880	1.84835	0.07803	-2.23454	0.46929	-0.00249	1.39179	0.74090	-0.01006	0.82421
0.06893	-0.65583	1.84453	0.07798	-2.21215	0.46520	-0.00251	1.33717	0.74597	-0.00911	0.81983
0.07055	-0.76665	1.84025	0.07786	-2.18703	0.46102	-0.00254	1.27718	0.75171	-0.00812	0.81500
0.07221	-0.87083	1.83524	0.07737	-2.16246	0.45789	-0.00256	1.22274	0.75696	-0.00729	0.81108
0.07391	-0.95304	1.82957	0.07651	-2.14089	0.45697	-0.00259	1.18257	0.76072	-0.00680	0.80916
0.07565	-1.01111	1.82372	0.07537	-2.12286	0.45882	-0.00263	1.15841	0.76273	-0.00658	0.80879
0.07743	-1.05191	1.81831	0.07405	-2.10766	0.46327	-0.00267	1.14704	0.76334	-0.00642	0.80855
0.07925	-1.08744	1.81333	0.07256	-2.09336	0.46999	-0.00272	1.14171	0.76325	-0.00615	0.80750
0.08111	-1.12825	1.80806	0.07088	-2.07789	0.47891	-0.00278	1.13537	0.76312	-0.00576	0.80562
0.08302	-1.17772	1.80187	0.06897	-2.06057	0.49009	-0.00284	1.12418	0.76326	-0.00527	0.80335
0.08498	-1.22850	1.79477	0.06665	-2.04297	0.50350	-0.00290	1.11034	0.76338	-0.00471	0.80096
0.08697	-1.26948	1.78728	0.06375	-2.02758	0.51834	-0.00296	1.09856	0.76300	-0.00400	0.79799
0.08902	-1.29620	1.77933	0.06020	-2.01515	0.53235	-0.00301	1.08964	0.76211	-0.00308	0.79381
0.09112	-1.32526	1.77056	0.05633	-2.00222	0.54176	-0.00303	1.07473	0.76195	-0.00200	0.78867
0.09326	-1.35785	1.76040	0.05214	-1.98783	0.54480	-0.00304	1.05297	0.76269	-0.00089	0.78333
0.09545	-1.39220	1.74929	0.04764	-1.97239	0.54191	-0.00302	1.02670	0.76418	0.00020	0.77819
0.09770	-1.42908	1.73768	0.04298	-1.95604	0.53463	-0.00299	0.99732	0.76627	0.00125	0.77333
0.10000	-1.47274	1.72563	0.03841	-1.93801	0.52463	-0.00296	0.96427	0.76903	0.00215	0.76954
0.10235	-1.52506	1.71312	0.03415	-1.91787	0.51389	-0.00292	0.92824	0.77234	0.00268	0.76826
0.10476	-1.58839	1.70033	0.03027	-1.89522	0.50428	-0.00290	0.88966	0.77616	0.00277	0.76996
0.10723	-1.66761	1.68757	0.02683	-1.86947	0.49676	-0.00288	0.84730	0.78072	0.00260	0.77348
0.10975	-1.76217	1.67542	0.02380	-1.84123	0.49167	-0.00289	0.80209	0.78603	0.00241	0.77717
0.11233	-1.86853	1.66460	0.02118	-1.81184	0.48926	-0.00291	0.75615	0.79192	0.00226	0.78043
0.11498	-1.96811	1.65481	0.01856	-1.78456	0.49062	-0.00294	0.71612	0.79711	0.00213	0.78332
0.11768	-2.07051	1.64664	0.01626	-1.75826	0.49504	-0.00298	0.67779	0.80241	0.00200	0.78590
0.12045	-2.16494	1.64035	0.01398	-1.73532	0.50269	-0.00303	0.64459	0.80714	0.00196	0.78767
0.12328	-2.24511	1.63663	0.01156	-1.71762	0.51382	-0.00308	0.61870	0.81077	0.00215	0.78769
0.12619	-2.30859	1.63544	0.00883	-1.70565	0.52763	-0.00313	0.60041	0.81311	0.00269	0.78525
0.12916	-2.35521	1.63578	0.00552	-1.69856	0.54193	-0.00317	0.58844	0.81424	0.00356	0.78042
0.13219	-2.38993	1.63632	0.00151	-1.69430	0.55433	-0.00319	0.57937	0.81476	0.00469	0.77356
0.13531	-2.41535	1.63613	-0.00323	-1.69161	0.56403	-0.00320	0.57160	0.81489	0.00603	0.76483
0.13849	-2.43056	1.63477	-0.00870	-1.69031	0.57152	-0.00319	0.56563	0.81437	0.00762	0.75398
0.14175	-2.43682	1.63214	-0.01469	-1.69007	0.57762	-0.00317	0.56153	0.81311	0.00945	0.74113
0.14508	-2.43729	1.62826	-0.02090	-1.69018	0.58350	-0.00315	0.55906	0.81114	0.01141	0.72715
0.14850	-2.43724	1.62324	-0.02706	-1.68947	0.58972	-0.00313	0.55722	0.80873	0.01328	0.71347
0.15199	-2.43135	1.61663	-0.03336	-1.68831	0.59581	-0.00311	0.55779	0.80549	0.01487	0.70161
0.15557	-2.42399	1.60868	-0.03981	-1.68592	0.60004	-0.00309	0.55915	0.80194	0.01604	0.69243
0.15923	-2.41606	1.59993	-0.04639	-1.68263	0.60188	-0.00306	0.56127	0.79821	0.01680	0.68607
0.16298	-2.40419	1.59082	-0.05312	-1.67948	0.60213	-0.00302	0.56588	0.79392	0.01718	0.68223
0.16681	-2.39076	1.58186	-0.05981	-1.67647	0.60194	-0.00299	0.57291	0.78914	0.01727	0.68059
0.17074	-2.37021	1.57311	-0.06654	-1.67470	0.60328	-0.00295	0.58513	0.78321	0.01712	0.68091
0.17475	-2.34227	1.56482	-0.07331	-1.67440	0.60742	-0.00293	0.60351	0.77598	0.01676	0.68295
0.17887	-2.30864	1.55733	-0.08007	-1.67559	0.61481	-0.00291	0.62802	0.76765	0.01630	0.68624
0.18307	-2.27322	1.55087	-0.08673	-1.67776	0.62497	-0.00291	0.65748	0.75864	0.01583	0.69011
0.18738	-2.24156	1.54527	-0.09317	-1.67972	0.63706	-0.00291	0.68942	0.74955	0.01535	0.69444
0.19179	-2.22070	1.54000	-0.09937	-1.67966	0.65004	-0.00292	0.71989	0.74108	0.01483	0.69943
0.19631	-2.21341	1.53489	-0.10532	-1.67696	0.66339	-0.00294	0.74657	0.73357	0.01426	0.70483
0.20092	-2.21889	1.53037	-0.11101	-1.67225	0.67670	-0.00297	0.76909	0.72707	0.01376	0.70986
0.20565	-2.23213	1.52675	-0.11646	-1.66687	0.68953	-0.00300	0.78920	0.72125	0.01339	0.71395
0.21049	-2.25314	1.52406	-0.12161	-1.66092	0.70081	-0.00302	0.80609	0.71627	0.01309	0.71744
0.21544	-2.27868	1.52203	-0.12651	-1.65478	0.70939	-0.00303	0.82018	0.71203	0.01274	0.72125
0.22051	-2.30380	1.52032	-0.13134	-1.64909	0.71444	-0.00303	0.83302	0.70825	0.01225	0.72593
0.22570	-2.32695	1.51851	-0.13626	-1.64369	0.71588	-0.00301	0.84497	0.70479	0.01166	0.73141
0.23101	-2.34491	1.51640	-0.14138	-1.63897	0.71500	-0.00297	0.85790	0.70130	0.01102	0.73736
0.23645	-2.35682	1.51413	-0.14667	-1.63520	0.71381	-0.00293	0.87314	0.69754	0.01040	0.74331
0.24201	-2.36349	1.51173	-0.15206	-1.63223	0.71410	-0.00290	0.89087	0.69343	0.00983	0.74910
0.24771	-2.36896	1.50886	-0.15748	-1.62900	0.71614	-0.00286	0.90886	0.68921	0.00925	0.75501
0.25354	-2.37533	1.50583	-0.16288	-1.62543	0.72012	-0.00284	0.92599	0.68507	0.00871	0.76074
0.25950	-2.38428	1.50305	-0.16814	-1.62162	0.72526	-0.00282	0.94134	0.68124	0.00829	0.76584
0.26561	-2.39723	1.50096	-0.17321	-1.61778	0.73072	-0.00280	0.95405	0.67791	0.00807	0.76968
0.27186	-2.41615	1.49975	-0.17797	-1.61374	0.73593	-0.00278	0.96308	0.67526	0.00802	0.77242
0.27826	-2.44424	1.49916	-0.18237	-1.60856	0.74051	-0.00276	0.96668	0.67348	0.00802	0.77487
0.28480	-2.48206	1.49928	-0.18637	-1.60216	0.74415	-0.00275	0.96449	0.67266	0.00796	0.77745
0.29150	-2.52898	1.50047	-0.18992	-1.59500	0.74693	-0.00274	0.95711	0.67276	0.00783	0.78019
0.29836	-2.58816	1.50227	-0.19291	-1.58604	0.74917	-0.00274	0.94259	0.67399	0.00760	0.78320

0.30539	-2.66225	1.50427	-0.19538	-1.57446	0.75047	-0.00274	0.91889	0.67656	0.00726	0.78643
0.31257	-2.74102	1.50657	-0.19759	-1.56247	0.75004	-0.00274	0.89151	0.67982	0.00685	0.78981
0.31993	-2.82194	1.50967	-0.19968	-1.55108	0.74863	-0.00274	0.86294	0.68350	0.00657	0.79212
0.32745	-2.90778	1.51358	-0.20163	-1.53971	0.74709	-0.00274	0.83287	0.68761	0.00659	0.79223
0.33517	-2.99691	1.51873	-0.20345	-1.52915	0.74580	-0.00274	0.80300	0.69197	0.00705	0.78928
0.34304	-3.09189	1.52435	-0.20522	-1.51830	0.74375	-0.00274	0.77101	0.69683	0.00784	0.78400
0.35112	-3.19040	1.52937	-0.20713	-1.50656	0.74128	-0.00274	0.73777	0.70183	0.00876	0.77778
0.35938	-3.28149	1.53415	-0.20940	-1.49633	0.73991	-0.00275	0.70941	0.70600	0.00968	0.77153
0.36784	-3.36446	1.53989	-0.21193	-1.48894	0.74103	-0.00275	0.68746	0.70910	0.01068	0.76481
0.37649	-3.44006	1.54571	-0.21481	-1.48352	0.74100	-0.00275	0.67023	0.71125	0.01172	0.75781
0.38536	-3.50345	1.55212	-0.21805	-1.48135	0.74243	-0.00275	0.66160	0.71169	0.01274	0.75087
0.39442	-3.55341	1.55789	-0.22178	-1.48153	0.74455	-0.00275	0.66110	0.71019	0.01371	0.74433
0.40370	-3.60111	1.56275	-0.22566	-1.48165	0.74613	-0.00275	0.66373	0.70763	0.01465	0.73793
0.41321	-3.63779	1.56794	-0.22985	-1.48451	0.74917	-0.00275	0.67519	0.70318	0.01552	0.73215
0.42292	-3.66629	1.57173	-0.23459	-1.48791	0.75126	-0.00274	0.69216	0.69729	0.01617	0.72799
0.43288	-3.69061	1.57592	-0.23953	-1.49286	0.75427	-0.00274	0.71533	0.69014	0.01667	0.72506
0.44307	-3.71492	1.58060	-0.24450	-1.49855	0.75884	-0.00274	0.74281	0.68221	0.01689	0.72417
0.45349	-3.74464	1.58483	-0.24949	-1.50311	0.76272	-0.00275	0.76976	0.67431	0.01682	0.72554
0.46417	-3.78575	1.58864	-0.25443	-1.50545	0.76538	-0.00276	0.79258	0.66695	0.01649	0.72893
0.47508	-3.84642	1.59129	-0.25924	-1.50320	0.76565	-0.00277	0.80584	0.66073	0.01603	0.73332
0.48626	-3.92135	1.59301	-0.26406	-1.49777	0.76267	-0.00278	0.81179	0.65529	0.01523	0.74006
0.49771	-4.00567	1.59502	-0.26893	-1.49112	0.75976	-0.00279	0.81481	0.65016	0.01426	0.74806
0.50942	-4.09746	1.59596	-0.27417	-1.48238	0.75373	-0.00279	0.81414	0.64518	0.01312	0.75729
0.52140	-4.19855	1.59797	-0.27944	-1.47299	0.74879	-0.00279	0.81243	0.64029	0.01214	0.76556
0.53367	-4.31423	1.60061	-0.28459	-1.46155	0.74278	-0.00280	0.80552	0.63612	0.01131	0.77294
0.54624	-4.43941	1.60274	-0.28994	-1.44797	0.73507	-0.00281	0.79441	0.63233	0.01060	0.77958
0.55910	-4.57213	1.60515	-0.29539	-1.43348	0.72594	-0.00281	0.78081	0.62883	0.01018	0.78427
0.57225	-4.70965	1.60825	-0.30083	-1.41903	0.71590	-0.00281	0.76697	0.62530	0.01011	0.78652
0.58569	-4.84831	1.61206	-0.30628	-1.40536	0.70615	-0.00280	0.75475	0.62142	0.01039	0.78634
0.59948	-4.98992	1.61618	-0.31163	-1.39177	0.69580	-0.00279	0.74215	0.61749	0.01091	0.78443
0.61357	-5.13153	1.62045	-0.31689	-1.37866	0.68552	-0.00278	0.73001	0.61341	0.01169	0.78078
0.62802	-5.27202	1.62528	-0.32205	-1.36653	0.67636	-0.00276	0.72014	0.60896	0.01273	0.77529
0.64280	-5.40939	1.63079	-0.32699	-1.35587	0.66789	-0.00275	0.71429	0.60382	0.01392	0.76872
0.65794	-5.54101	1.63666	-0.33176	-1.34696	0.66064	-0.00273	0.71448	0.59748	0.01512	0.76207
0.67340	-5.66904	1.64277	-0.33630	-1.33921	0.65423	-0.00270	0.71878	0.59033	0.01640	0.75497
0.68927	-5.79632	1.64879	-0.34066	-1.33165	0.64859	-0.00268	0.72527	0.58271	0.01779	0.74713
0.70547	-5.92165	1.65451	-0.34480	-1.32420	0.64366	-0.00266	0.73424	0.57458	0.01924	0.73881
0.72207	-6.04548	1.66030	-0.34866	-1.31714	0.63963	-0.00264	0.74732	0.56569	0.02071	0.73014
0.73910	-6.16767	1.66641	-0.35215	-1.31071	0.63657	-0.00262	0.76583	0.55587	0.02209	0.72147
0.75649	-6.28646	1.67284	-0.35529	-1.30522	0.63470	-0.00261	0.79101	0.54508	0.02336	0.71281
0.77429	-6.40057	1.67928	-0.35823	-1.30060	0.63391	-0.00259	0.82360	0.53331	0.02454	0.70391
0.79246	-6.50873	1.68535	-0.36106	-1.29662	0.63386	-0.00258	0.86360	0.52071	0.02565	0.69446
0.81116	-6.61098	1.69102	-0.36384	-1.29340	0.63454	-0.00256	0.91288	0.50711	0.02671	0.68444
0.83022	-6.70669	1.69651	-0.36646	-1.29120	0.63619	-0.00255	0.97233	0.49266	0.02771	0.67424
0.84976	-6.79867	1.70227	-0.36883	-1.29002	0.63892	-0.00253	1.04258	0.47751	0.02863	0.66416
0.86972	-6.88821	1.70856	-0.37088	-1.28984	0.64282	-0.00252	1.12327	0.46195	0.02945	0.65469
0.89023	-6.97681	1.71542	-0.37262	-1.29045	0.64781	-0.00251	1.21432	0.44618	0.03017	0.64631
0.91116	-7.06363	1.72251	-0.37406	-1.29163	0.65367	-0.00250	1.31444	0.43049	0.03076	0.63957
0.93257	-7.14879	1.72954	-0.37527	-1.29311	0.66012	-0.00249	1.42317	0.41499	0.03123	0.63453
0.95456	-7.23267	1.73641	-0.37628	-1.29475	0.66696	-0.00248	1.54076	0.39967	0.03159	0.63112
0.97704	-7.31628	1.74321	-0.37706	-1.29638	0.67399	-0.00247	1.66601	0.38470	0.03182	0.62930
1.00000	-7.40153	1.75023	-0.37755	-1.29789	0.68116	-0.00247	1.79775	0.37018	0.03195	0.62890
1.02354	-7.49005	1.75780	-0.37771	-1.29929	0.68848	-0.00246	1.93579	0.35611	0.03199	0.62976
1.04767	-7.58242	1.76601	-0.37756	-1.30056	0.69596	-0.00245	2.07948	0.34252	0.03194	0.63164
1.07227	-7.67801	1.77475	-0.37712	-1.30162	0.70346	-0.00245	2.22726	0.32952	0.03184	0.63431
1.09745	-7.77638	1.78378	-0.37644	-1.30238	0.71087	-0.00245	2.37903	0.31704	0.03171	0.63758
1.12334	-7.87688	1.79286	-0.37560	-1.30279	0.71809	-0.00244	2.53495	0.30498	0.03155	0.64135
1.14982	-7.97807	1.80174	-0.37464	-1.30283	0.72502	-0.00244	2.69433	0.29338	0.03139	0.64546
1.17675	-8.07944	1.81037	-0.37358	-1.30250	0.73155	-0.00244	2.85532	0.28230	0.03122	0.64981
1.20453	-8.18302	1.81902	-0.37238	-1.30182	0.73780	-0.00244	3.01970	0.27158	0.03103	0.65432
1.23289	-8.28869	1.82783	-0.37100	-1.30084	0.74377	-0.00244	3.18460	0.26136	0.03081	0.65883
1.26183	-8.39691	1.83703	-0.36942	-1.29969	0.74955	-0.00244	3.34948	0.25168	0.03057	0.66332
1.29149	-8.50908	1.84679	-0.36762	-1.29830	0.75513	-0.00244	3.51286	0.24253	0.03028	0.66790
1.32188	-8.62521	1.85712	-0.36559	-1.29666	0.76051	-0.00244	3.67343	0.23392	0.02995	0.67267
1.35300	-8.74513	1.86791	-0.36338	-1.29470	0.76557	-0.00244	3.82913	0.22588	0.02957	0.67770
1.38485	-8.86830	1.87897	-0.36101	-1.29231	0.77019	-0.00244	3.97813	0.21840	0.02916	0.68310
1.41743	-8.99370	1.89007	-0.35855	-1.28950	0.77433	-0.00244	4.11977	0.21144	0.02871	0.68895
1.45075	-9.12024	1.90106	-0.35601	-1.28631	0.77798	-0.00244	4.25415	0.20498	0.02826	0.69526
1.48500	-9.24804	1.91191	-0.35341	-1.28278	0.78118	-0.00244	4.38217	0.19894	0.02779	0.70203
1.51999	-9.37607	1.92256	-0.35077	-1.27899	0.78396	-0.00244	4.50290	0.19334	0.02732	0.70915
1.55569	-9.50418	1.93311	-0.34806	-1.27506	0.78643	-0.00244	4.61687	0.18816	0.02686	0.71660
1.59236	-9.63358	1.94377	-0.34524	-1.27103	0.78868	-0.00244	4.72444	0.18339	0.02639	0.72439
1.62973	-9.76363	1.95462	-0.34231	-1.26704	0.79081	-0.00244	4.82509	0.17905	0.02592	0.73244
1.66806	-9.89539	1.96584	-0.33923	-1.26312	0.79293	-0.00244	4.91974	0.17510	0.02545	0.74077
1.70736	-10.02893	1.97751	-0.33600	-1.25934	0.79510	-0.00244	5.00850	0.17153	0.02496	0.74939
1.74764	-10.16423	1.98963	-0.33261	-1.25569	0.79733	-0.00244	5.09117	0.16834	0.02446	0.75829
1.78859	-10.29995	2.00206	-0.32911	-1.25221	0.79960	-0.00244	5.16702	0.16553	0.02397	0.76737
1.83083	-10.43767	2.01489	-0.32547	-1.24884	0.80193	-0.00244	5.23733	0.16304	0.02347	0.77677
1.87371	-10.57467	2.02780	-0.32176	-1.24563	0.80428	-0.00244	5.30136	0.16089	0.02298	0.78630
1.91791	-10.71247	2.04086	-0.31797	-1.24252	0.80667	-0.00244	5.36054	0.15901	0.02251	0.79602
1.96309	-10.84944	2.05385	-0.31414	-1.23952	0.80904	-0.00244	5.41427	0.15740	0.02205	0.80573

2.00924	-10.98531	2.06666	-0.31030	-1.23659	0.81136	-0.00244	5.46172	0.15607	0.02163	0.81532
2.05634	-11.11986	2.07925	-0.30646	-1.23371	0.81359	-0.00244	5.50255	0.15501	0.02122	0.82465
2.10482	-11.25416	2.09171	-0.30259	-1.23085	0.81577	-0.00244	5.53697	0.15420	0.02084	0.83364
2.15424	-11.38720	2.10393	-0.29872	-1.22800	0.81786	-0.00244	5.56400	0.15367	0.02048	0.84205
2.20507	-11.52038	2.11607	-0.29482	-1.22515	0.81988	-0.00244	5.58365	0.15341	0.02013	0.84986
2.25683	-11.65256	2.12808	-0.29090	-1.22235	0.82186	-0.00243	5.59618	0.15340	0.01979	0.85707
2.31000	-11.78501	2.14014	-0.28691	-1.21963	0.82387	-0.00243	5.60265	0.15364	0.01945	0.86386
2.36463	-11.91797	2.15231	-0.28286	-1.21702	0.82594	-0.00243	5.60289	0.15413	0.01910	0.87035
2.42014	-12.05027	2.16453	-0.27877	-1.21453	0.82806	-0.00243	5.59717	0.15486	0.01873	0.87664
2.47709	-12.18323	2.17692	-0.27459	-1.21217	0.83028	-0.00243	5.58614	0.15580	0.01835	0.88294
2.53550	-12.31689	2.18952	-0.27033	-1.20994	0.83259	-0.00243	5.57022	0.15696	0.01794	0.88945
2.59471	-12.44970	2.20218	-0.26604	-1.20787	0.83500	-0.00243	5.55029	0.15828	0.01751	0.89623
2.65604	-12.58425	2.21514	-0.26161	-1.20596	0.83756	-0.00243	5.52689	0.15978	0.01704	0.90350
2.71887	-12.71910	2.22825	-0.25713	-1.20417	0.84023	-0.00243	5.50031	0.16142	0.01655	0.91122
2.78242	-12.85242	2.24132	-0.25265	-1.20254	0.84296	-0.00243	5.47164	0.16316	0.01605	0.91935
2.84819	-12.98682	2.25452	-0.24805	-1.20105	0.84583	-0.00243	5.44117	0.16501	0.01552	0.92815
2.91545	-13.12088	2.26779	-0.24345	-1.19968	0.84877	-0.00243	5.40915	0.16694	0.01499	0.93754
2.98329	-13.25221	2.28073	-0.23884	-1.19846	0.85172	-0.00242	5.37703	0.16888	0.01445	0.94728
3.05344	-13.38456	2.29377	-0.23423	-1.19723	0.85471	-0.00242	5.34312	0.17088	0.01391	0.95736
3.12598	-13.51712	2.30675	-0.22949	-1.19615	0.85777	-0.00242	5.30919	0.17292	0.01337	0.96758
3.19898	-13.64675	2.31936	-0.22487	-1.19506	0.86075	-0.00242	5.27490	0.17493	0.01286	0.97735
3.27439	-13.77651	2.33189	-0.22016	-1.19408	0.86377	-0.00242	5.24080	0.17696	0.01236	0.98665
3.35121	-13.90467	2.34413	-0.21552	-1.19307	0.86672	-0.00242	5.20656	0.17895	0.01189	0.99519
3.43053	-14.03282	2.35626	-0.21077	-1.19218	0.86972	-0.00241	5.17294	0.18095	0.01144	1.00333
3.51124	-14.15936	2.36811	-0.20614	-1.19121	0.87261	-0.00241	5.13895	0.18290	0.01100	1.01117
3.59324	-14.28339	2.37957	-0.20143	-1.19045	0.87553	-0.00241	5.10684	0.18483	0.01058	1.01911
3.67782	-14.40865	2.39110	-0.19684	-1.18943	0.87829	-0.00241	5.07228	0.18673	0.01017	1.02753
3.76506	-14.53187	2.40218	-0.19201	-1.18882	0.88125	-0.00240	5.04167	0.18863	0.00975	1.03694
3.85356	-14.65586	2.41349	-0.18746	-1.18785	0.88395	-0.00240	5.00759	0.19048	0.00936	1.04696
3.94477	-14.77636	2.42409	-0.18261	-1.18739	0.88689	-0.00240	4.97929	0.19229	0.00895	1.05774
4.03714	-14.89834	2.43509	-0.17800	-1.18661	0.88961	-0.00239	4.94748	0.19408	0.00857	1.06864
4.13223	-15.01781	2.44555	-0.17330	-1.18606	0.89242	-0.00239	4.91929	0.19579	0.00820	1.07967
4.23012	-15.13727	2.45601	-0.16838	-1.18579	0.89536	-0.00239	4.89311	0.19750	0.00782	1.09051
4.32900	-15.25788	2.46680	-0.16390	-1.18496	0.89796	-0.00238	4.86292	0.19913	0.00749	1.10045
4.43066	-15.37225	2.47646	-0.15892	-1.18506	0.90100	-0.00238	4.84252	0.20070	0.00714	1.10994
4.53515	-15.49229	2.48715	-0.15417	-1.18464	0.90379	-0.00237	4.81637	0.20228	0.00681	1.11867
4.64253	-15.61080	2.49749	-0.14954	-1.18418	0.90652	-0.00237	4.79184	0.20376	0.00650	1.12677
4.75059	-15.72155	2.50674	-0.14444	-1.18473	0.90969	-0.00237	4.77716	0.20518	0.00618	1.13436
4.86145	-15.84087	2.51753	-0.13984	-1.18428	0.91236	-0.00236	4.75275	0.20659	0.00589	1.14120
4.97760	-15.95715	2.52749	-0.13509	-1.18420	0.91523	-0.00235	4.73394	0.20791	0.00560	1.14776
5.09424	-16.06574	2.53643	-0.12985	-1.18517	0.91856	-0.00235	4.72473	0.20920	0.00528	1.15402
5.21376	-16.18518	2.54732	-0.12525	-1.18485	0.92123	-0.00234	4.70345	0.21046	0.00502	1.15961
5.33618	-16.29848	2.55703	-0.12070	-1.18481	0.92398	-0.00234	4.68761	0.21159	0.00476	1.16499
5.46150	-16.40217	2.56520	-0.11535	-1.18630	0.92748	-0.00233	4.68517	0.21272	0.00444	1.17056
5.58971	-16.51816	2.57561	-0.11059	-1.18648	0.93032	-0.00233	4.67045	0.21383	0.00418	1.17576
5.72082	-16.63517	2.58608	-0.10639	-1.18595	0.93273	-0.00232	4.65215	0.21481	0.00396	1.18082
5.85823	-16.73590	2.59355	-0.10105	-1.18775	0.93631	-0.00232	4.65460	0.21579	0.00365	1.18673
5.99520	-16.84198	2.60239	-0.09592	-1.18903	0.93959	-0.00231	4.65157	0.21676	0.00336	1.19252
6.13497	-16.96166	2.61357	-0.09180	-1.18841	0.94186	-0.00230	4.63359	0.21761	0.00316	1.19795
6.28141	-17.06822	2.62208	-0.08733	-1.18896	0.94466	-0.00229	4.62799	0.21839	0.00291	1.20397
6.42674	-17.15834	2.62824	-0.08196	-1.19149	0.94836	-0.00229	4.63803	0.21923	0.00260	1.21046
6.57895	-17.26651	2.63742	-0.07704	-1.19258	0.95142	-0.00228	4.63530	0.22004	0.00234	1.21687
6.73401	-17.38842	2.64891	-0.07325	-1.19160	0.95336	-0.00227	4.61808	0.22065	0.00217	1.22286
6.89180	-17.48572	2.65601	-0.06897	-1.19258	0.95612	-0.00227	4.61857	0.22125	0.00194	1.22943
7.05716	-17.57095	2.66100	-0.06345	-1.19574	0.96001	-0.00226	4.63425	0.22203	0.00161	1.23679
7.22022	-17.67027	2.66890	-0.05872	-1.19718	0.96299	-0.00226	4.63675	0.22267	0.00136	1.24339
7.39098	-17.79165	2.68034	-0.05502	-1.19626	0.96482	-0.00225	4.62323	0.22308	0.00122	1.24934
7.56430	-17.89719	2.68882	-0.05157	-1.19592	0.96672	-0.00224	4.61688	0.22340	0.00107	1.25512
7.73994	-17.96726	2.69139	-0.04650	-1.19949	0.97048	-0.00223	4.63631	0.22412	0.00075	1.26154
7.92393	-18.05439	2.69685	-0.04151	-1.20203	0.97384	-0.00223	4.64809	0.22473	0.00047	1.26739
8.11030	-18.15819	2.70535	-0.03726	-1.20283	0.97630	-0.00222	4.64843	0.22514	0.00027	1.27228
8.29876	-18.28290	2.71741	-0.03438	-1.20083	0.97729	-0.00221	4.63404	0.22511	0.00021	1.27598
8.49618	-18.37513	2.72335	-0.03095	-1.20136	0.97935	-0.00220	4.63631	0.22535	0.00005	1.28021
8.69565	-18.43200	2.72351	-0.02587	-1.20584	0.98331	-0.00220	4.65943	0.22620	-0.00030	1.28534
8.90472	-18.51577	2.72816	-0.02122	-1.20827	0.98637	-0.00219	4.67088	0.22672	-0.00056	1.28987
9.11577	-18.61053	2.73494	-0.01707	-1.20955	0.98882	-0.00218	4.67636	0.22704	-0.00076	1.29397
9.32836	-18.73624	2.74717	-0.01417	-1.20757	0.98960	-0.00217	4.66713	0.22674	-0.00080	1.29714
9.54198	-18.84643	2.75646	-0.01195	-1.20560	0.99015	-0.00216	4.66250	0.22625	-0.00082	1.30044
9.76563	-18.89231	2.75459	-0.00769	-1.21001	0.99374	-0.00216	4.68041	0.22728	-0.00114	1.30608
10.00000	-18.94880	2.75442	-0.00293	-1.21425	0.99741	-0.00216	4.69973	0.22811	-0.00146	1.31237

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
High stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 30 - 61 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.39745	3.40282	-0.04637	-1.77103	1.06617	-0.00096	1.54819	0.41882	-0.02128	0.36314
PGV	5.41755	1.84151	-0.12221	-2.93623	1.41935	-0.00123	11.28537	0.29960	-0.00779	0.40661
PGA	4.92368	1.69208	-0.05721	-3.31017	1.11351	-0.00108	8.66282	0.43128	-0.03027	0.73629
0.01000	5.86376	1.70944	-0.05476	-3.48625	1.11312	-0.00089	10.03218	0.41790	-0.00720	0.70044
0.01024	5.83818	1.71298	-0.05352	-3.48307	1.10462	-0.00088	9.96255	0.41992	-0.00730	0.70143
0.01048	5.81864	1.71650	-0.05229	-3.48098	1.09632	-0.00087	9.90130	0.42183	-0.00741	0.70247
0.01072	5.80458	1.72000	-0.05105	-3.47987	1.08820	-0.00086	9.84753	0.42364	-0.00754	0.70356
0.01097	5.79559	1.72348	-0.04982	-3.47967	1.08021	-0.00085	9.80045	0.42537	-0.00768	0.70469
0.01123	5.79074	1.72696	-0.04857	-3.48022	1.07232	-0.00084	9.75849	0.42702	-0.00783	0.70586
0.01150	5.78973	1.73044	-0.04730	-3.48145	1.06450	-0.00083	9.72120	0.42862	-0.00800	0.70707
0.01177	5.79290	1.73393	-0.04602	-3.48342	1.05673	-0.00082	9.68909	0.43016	-0.00818	0.70834
0.01205	5.80057	1.73742	-0.04474	-3.48619	1.04902	-0.00080	9.66284	0.43163	-0.00837	0.70965
0.01233	5.81045	1.74091	-0.04345	-3.48934	1.04134	-0.00079	9.63896	0.43306	-0.00857	0.71101
0.01262	5.81929	1.74438	-0.04214	-3.49228	1.03368	-0.00078	9.61236	0.43452	-0.00880	0.71246
0.01292	5.82623	1.74782	-0.04081	-3.49487	1.02602	-0.00076	9.58172	0.43603	-0.00904	0.71403
0.01322	5.83413	1.75125	-0.03948	-3.49759	1.01831	-0.00075	9.55146	0.43753	-0.00930	0.71567
0.01353	5.84950	1.75473	-0.03813	-3.50164	1.01063	-0.00074	9.53159	0.43892	-0.00957	0.71738
0.01385	5.87309	1.75828	-0.03677	-3.50717	1.00302	-0.00072	9.52288	0.44017	-0.00985	0.71918
0.01417	5.90202	1.76189	-0.03538	-3.51369	0.99558	-0.00070	9.52081	0.44135	-0.01014	0.72105
0.01451	5.93526	1.76553	-0.03398	-3.52097	0.98832	-0.00068	9.52396	0.44247	-0.01044	0.72298
0.01485	5.96799	1.76917	-0.03257	-3.52816	0.98109	-0.00067	9.52500	0.44360	-0.01073	0.72488
0.01520	5.99575	1.77280	-0.03114	-3.53445	0.97378	-0.00065	9.51716	0.44485	-0.01102	0.72680
0.01556	6.02057	1.77641	-0.02969	-3.54017	0.96635	-0.00064	9.50368	0.44616	-0.01131	0.72878
0.01592	6.04790	1.78003	-0.02824	-3.54627	0.95875	-0.00062	9.49331	0.44745	-0.01159	0.73079
0.01630	6.08031	1.78362	-0.02682	-3.55315	0.95096	-0.00060	9.49055	0.44866	-0.01187	0.73290
0.01668	6.11206	1.78721	-0.02542	-3.55982	0.94298	-0.00059	9.48636	0.44990	-0.01218	0.73521
0.01707	6.13622	1.79080	-0.02396	-3.56514	0.93486	-0.00057	9.46934	0.45130	-0.01250	0.73768
0.01748	6.15242	1.79449	-0.02241	-3.56912	0.92660	-0.00056	9.43769	0.45291	-0.01285	0.74035
0.01789	6.16378	1.79832	-0.02075	-3.57237	0.91815	-0.00055	9.39510	0.45468	-0.01321	0.74315
0.01831	6.17757	1.80227	-0.01902	-3.57609	0.90957	-0.00053	9.35362	0.45648	-0.01358	0.74600
0.01874	6.19610	1.80626	-0.01729	-3.58061	0.90109	-0.00052	9.31903	0.45819	-0.01396	0.74891
0.01918	6.21596	1.81025	-0.01559	-3.58526	0.89273	-0.00051	9.28725	0.45987	-0.01433	0.75184
0.01963	6.24179	1.81430	-0.01389	-3.59091	0.88443	-0.00050	9.26423	0.46146	-0.01470	0.75472
0.02009	6.27849	1.81849	-0.01217	-3.59848	0.87626	-0.00048	9.25578	0.46288	-0.01507	0.75760
0.02057	6.32079	1.82279	-0.01041	-3.60703	0.86806	-0.00047	9.25352	0.46425	-0.01544	0.76049
0.02105	6.36522	1.82715	-0.00864	-3.61590	0.85958	-0.00045	9.25273	0.46563	-0.01581	0.76334
0.02154	6.41129	1.83156	-0.00687	-3.62501	0.85093	-0.00043	9.25306	0.46701	-0.01615	0.76602
0.02205	6.45398	1.83594	-0.00512	-3.63348	0.84234	-0.00042	9.24860	0.46845	-0.01645	0.76846
0.02257	6.47465	1.84010	-0.00337	-3.63787	0.83358	-0.00041	9.21508	0.47023	-0.01674	0.77075
0.02310	6.47970	1.84411	-0.00164	-3.63925	0.82437	-0.00040	9.16225	0.47227	-0.01699	0.77286
0.02364	6.48621	1.84824	0.00007	-3.64081	0.81496	-0.00040	9.11226	0.47432	-0.01722	0.77487
0.02420	6.48312	1.85249	0.00187	-3.64079	0.80547	-0.00039	9.04717	0.47659	-0.01744	0.77678
0.02477	6.45437	1.85677	0.00385	-3.63634	0.79568	-0.00040	8.94557	0.47937	-0.01761	0.77841
0.02535	6.40765	1.86113	0.00599	-3.62862	0.78547	-0.00040	8.82132	0.48252	-0.01781	0.78021
0.02595	6.36378	1.86562	0.00818	-3.62120	0.77513	-0.00041	8.70391	0.48566	-0.01808	0.78252
0.02656	6.32841	1.87015	0.01032	-3.61515	0.76491	-0.00042	8.59918	0.48866	-0.01835	0.78486
0.02719	6.30150	1.87469	0.01241	-3.61059	0.75493	-0.00042	8.50535	0.49152	-0.01857	0.78694
0.02783	6.28810	1.87930	0.01443	-3.60840	0.74535	-0.00043	8.43076	0.49411	-0.01879	0.78904
0.02848	6.28410	1.88400	0.01638	-3.60773	0.73581	-0.00043	8.37066	0.49653	-0.01905	0.79148
0.02915	6.25530	1.88884	0.01834	-3.60278	0.72545	-0.00044	8.27562	0.49952	-0.01931	0.79401
0.02984	6.16822	1.89381	0.02042	-3.58787	0.71394	-0.00045	8.10042	0.50378	-0.01949	0.79615
0.03054	6.04337	1.89878	0.02263	-3.56639	0.70221	-0.00048	7.87946	0.50882	-0.01962	0.79800
0.03126	5.91965	1.90372	0.02487	-3.54506	0.69110	-0.00051	7.66604	0.51382	-0.01977	0.80011
0.03199	5.81448	1.90874	0.02701	-3.52714	0.68029	-0.00053	7.47698	0.51851	-0.01995	0.80254
0.03275	5.73208	1.91383	0.02900	-3.51325	0.66996	-0.00055	7.31825	0.52276	-0.02011	0.80492
0.03352	5.66947	1.91876	0.03087	-3.50249	0.66061	-0.00056	7.19135	0.52649	-0.02027	0.80730
0.03430	5.61939	1.92355	0.03273	-3.49350	0.65170	-0.00058	7.08709	0.52985	-0.02052	0.81035
0.03511	5.58312	1.92830	0.03451	-3.48669	0.64283	-0.00059	7.00411	0.53286	-0.02084	0.81391
0.03594	5.54264	1.93300	0.03622	-3.47918	0.63444	-0.00061	6.91959	0.53588	-0.02113	0.81731
0.03678	5.45491	1.93751	0.03809	-3.46353	0.62677	-0.00064	6.78448	0.53975	-0.02135	0.82032
0.03765	5.31139	1.94178	0.04017	-3.43812	0.61950	-0.00068	6.59114	0.54470	-0.02142	0.82240
0.03854	5.13442	1.94577	0.04238	-3.40676	0.61175	-0.00073	6.36546	0.55037	-0.02130	0.82320
0.03944	4.93167	1.94947	0.04477	-3.37064	0.60275	-0.00078	6.11724	0.55670	-0.02107	0.82322
0.04037	4.70113	1.95323	0.04750	-3.32958	0.59247	-0.00083	5.84525	0.56385	-0.02080	0.82300
0.04132	4.46275	1.95742	0.05048	-3.28743	0.58152	-0.00089	5.57014	0.57146	-0.02054	0.82277
0.04229	4.23930	1.96190	0.05342	-3.24815	0.57103	-0.00094	5.31620	0.57890	-0.02022	0.82212
0.04329	4.03326	1.96609	0.05607	-3.21195	0.56244	-0.00099	5.08718	0.58588	-0.01976	0.82044
0.04431	3.85504	1.96960	0.05827	-3.18042	0.55615	-0.00104	4.89175	0.59202	-0.01919	0.81800
0.04535	3.70996	1.97254	0.06004	-3.15441	0.55067	-0.00108	4.73105	0.59732	-0.01867	0.81592

0.04642	3.55866	1.97494	0.06178	-3.12688	0.54411	-0.00111	4.56653	0.60287	-0.01838	0.81531
0.04751	3.37052	1.97664	0.06374	-3.09230	0.53643	-0.00116	4.37326	0.60943	-0.01836	0.81648
0.04863	3.17720	1.97782	0.06562	-3.05636	0.52976	-0.00120	4.18464	0.61599	-0.01851	0.81872
0.04977	3.03466	1.97911	0.06694	-3.02929	0.52587	-0.00124	4.04986	0.62098	-0.01860	0.82049
0.05094	2.95123	1.98111	0.06771	-3.01301	0.52405	-0.00128	3.97039	0.62428	-0.01838	0.82010
0.05214	2.88653	1.98360	0.06847	-3.00041	0.52272	-0.00131	3.90781	0.62710	-0.01787	0.81774
0.05337	2.79966	1.98524	0.06961	-2.98331	0.52124	-0.00135	3.82898	0.63041	-0.01748	0.81614
0.05462	2.67082	1.98449	0.07098	-2.95715	0.51919	-0.00139	3.71838	0.63463	-0.01750	0.81722
0.05591	2.50988	1.98139	0.07218	-2.92388	0.51672	-0.00143	3.58345	0.63955	-0.01775	0.81998
0.05722	2.36157	1.97768	0.07296	-2.89256	0.51578	-0.00148	3.46249	0.64395	-0.01796	0.82257
0.05857	2.27013	1.97491	0.07322	-2.87166	0.51731	-0.00152	3.39305	0.64653	-0.01799	0.82405
0.05995	2.22588	1.97339	0.07309	-2.85954	0.51915	-0.00155	3.36409	0.64775	-0.01777	0.82398
0.06136	2.18184	1.97258	0.07274	-2.84793	0.51854	-0.00157	3.33171	0.64931	-0.01734	0.82252
0.06280	2.10624	1.97154	0.07225	-2.83085	0.51464	-0.00159	3.26824	0.65223	-0.01690	0.82118
0.06428	1.99997	1.96918	0.07168	-2.80751	0.50920	-0.00162	3.17958	0.65613	-0.01664	0.82119
0.06579	1.88755	1.96520	0.07114	-2.78182	0.50553	-0.00164	3.09184	0.65983	-0.01643	0.82163
0.06734	1.77955	1.95983	0.07072	-2.75616	0.50562	-0.00168	3.01291	0.66285	-0.01597	0.82044
0.06893	1.65798	1.95249	0.07055	-2.72740	0.50975	-0.00172	2.92558	0.66580	-0.01522	0.81724
0.07055	1.52256	1.94266	0.07050	-2.69485	0.51728	-0.00178	2.82975	0.66873	-0.01451	0.81418
0.07221	1.40481	1.93138	0.06997	-2.66410	0.52529	-0.00183	2.74846	0.67095	-0.01415	0.81310
0.07391	1.31691	1.92065	0.06855	-2.63833	0.52921	-0.00186	2.68651	0.67268	-0.01404	0.81351
0.07565	1.23082	1.91169	0.06648	-2.61371	0.52699	-0.00188	2.62091	0.67523	-0.01398	0.81401
0.07743	1.11732	1.90450	0.06431	-2.58539	0.52027	-0.00189	2.53316	0.67944	-0.01378	0.81352
0.07925	0.97293	1.89873	0.06259	-2.55255	0.51198	-0.00191	2.42638	0.68509	-0.01334	0.81132
0.08111	0.81753	1.89318	0.06146	-2.51783	0.50512	-0.00194	2.31795	0.69105	-0.01274	0.80792
0.08302	0.65902	1.88689	0.06099	-2.48204	0.50132	-0.00198	2.21353	0.69682	-0.01212	0.80448
0.08498	0.52282	1.87905	0.06053	-2.44927	0.50203	-0.00202	2.12748	0.70130	-0.01156	0.80159
0.08697	0.41779	1.87090	0.05980	-2.42212	0.50843	-0.00207	2.06583	0.70402	-0.01103	0.79915
0.08902	0.36766	1.86477	0.05842	-2.40640	0.52133	-0.00212	2.04614	0.70398	-0.01042	0.79656
0.09112	0.37742	1.86279	0.05628	-2.40432	0.53832	-0.00218	2.07251	0.70127	-0.00956	0.79277
0.09326	0.43497	1.86378	0.05315	-2.41273	0.55511	-0.00222	2.13340	0.69680	-0.00845	0.78769
0.09545	0.48042	1.86455	0.04946	-2.41878	0.56685	-0.00225	2.18288	0.69335	-0.00730	0.78258
0.09770	0.45880	1.86175	0.04580	-2.41054	0.57086	-0.00227	2.17739	0.69316	-0.00635	0.77884
0.10000	0.36766	1.85404	0.04243	-2.38672	0.56817	-0.00228	2.11461	0.69615	-0.00576	0.77748
0.10235	0.22098	1.84290	0.03962	-2.35069	0.56112	-0.00229	2.01010	0.70171	-0.00553	0.77849
0.10476	0.08135	1.82836	0.03646	-2.31335	0.55338	-0.00229	1.90778	0.70707	-0.00545	0.78056
0.10723	-0.04428	1.81215	0.03296	-2.27715	0.54679	-0.00229	1.81515	0.71182	-0.00522	0.78164
0.10975	-0.14854	1.79610	0.02922	-2.24500	0.54393	-0.00229	1.73940	0.71538	-0.00466	0.78041
0.11233	-0.22392	1.78157	0.02526	-2.21950	0.54674	-0.00230	1.68617	0.71720	-0.00381	0.77686
0.11498	-0.29093	1.76914	0.02132	-2.19747	0.55376	-0.00233	1.64191	0.71834	-0.00274	0.77159
0.11768	-0.35952	1.75767	0.01722	-2.17619	0.56201	-0.00235	1.59736	0.71954	-0.00158	0.76534
0.12045	-0.44876	1.74681	0.01314	-2.15176	0.56815	-0.00238	1.54017	0.72205	-0.00045	0.75901
0.12328	-0.55639	1.73557	0.00900	-2.12358	0.57077	-0.00240	1.47132	0.72589	0.00049	0.75378
0.12619	-0.68713	1.72347	0.00508	-2.09025	0.57029	-0.00242	1.39030	0.73122	0.00109	0.75053
0.12916	-0.83131	1.71119	0.00153	-2.05404	0.56886	-0.00245	1.30588	0.73737	0.00140	0.74884
0.13219	-0.97243	1.70107	-0.00165	-2.02001	0.56851	-0.00247	1.22911	0.74348	0.00175	0.74674
0.13531	-1.06693	1.69419	-0.00529	-1.99730	0.57169	-0.00250	1.18178	0.74700	0.00242	0.74241
0.13849	-1.12881	1.69147	-0.00906	-1.98402	0.57735	-0.00252	1.15658	0.74862	0.00342	0.73597
0.14175	-1.15655	1.69135	-0.01301	-1.97887	0.58516	-0.00253	1.15380	0.74800	0.00446	0.72919
0.14508	-1.16334	1.69212	-0.01687	-1.97782	0.59524	-0.00255	1.16675	0.74567	0.00522	0.72417
0.14850	-1.16967	1.69233	-0.02035	-1.97599	0.60719	-0.00258	1.18388	0.74279	0.00555	0.72194
0.15199	-1.17994	1.69063	-0.02370	-1.97188	0.62009	-0.00262	1.19906	0.73980	0.00559	0.72167
0.15557	-1.21504	1.68727	-0.02679	-1.96237	0.63133	-0.00265	1.19791	0.73834	0.00562	0.72152
0.15923	-1.28158	1.68198	-0.02982	-1.94633	0.63917	-0.00268	1.17413	0.73909	0.00584	0.72033
0.16298	-1.39101	1.67462	-0.03272	-1.92149	0.64270	-0.00271	1.12213	0.74286	0.00626	0.71804
0.16681	-1.52165	1.66493	-0.03596	-1.89116	0.64317	-0.00273	1.05632	0.74829	0.00684	0.71490
0.17074	-1.62950	1.65260	-0.04032	-1.86265	0.64280	-0.00274	1.00126	0.75239	0.00747	0.71170
0.17475	-1.71837	1.63840	-0.04558	-1.83545	0.64106	-0.00274	0.95669	0.75523	0.00787	0.71017
0.17887	-1.78316	1.62227	-0.05175	-1.81041	0.63771	-0.00272	0.92439	0.75640	0.00783	0.71178
0.18307	-1.82730	1.60532	-0.05867	-1.78807	0.63237	-0.00270	0.90212	0.75619	0.00740	0.71603
0.18738	-1.85392	1.58918	-0.06616	-1.76970	0.62475	-0.00266	0.88784	0.75500	0.00684	0.72112
0.19179	-1.86969	1.57504	-0.07400	-1.75538	0.61461	-0.00261	0.87791	0.75349	0.00635	0.72566
0.19631	-1.86697	1.56292	-0.08224	-1.74668	0.60366	-0.00254	0.87613	0.75099	0.00598	0.72926
0.20092	-1.86683	1.55397	-0.09017	-1.74057	0.59316	-0.00247	0.87476	0.74884	0.00578	0.73161
0.20565	-1.86507	1.54823	-0.09769	-1.73776	0.58491	-0.00241	0.87698	0.74651	0.00574	0.73278
0.21049	-1.87158	1.54542	-0.10459	-1.73598	0.57834	-0.00236	0.87848	0.74468	0.00577	0.73348
0.21544	-1.88754	1.54464	-0.11100	-1.73412	0.57273	-0.00231	0.87833	0.74342	0.00572	0.73469
0.22051	-1.91112	1.54514	-0.11710	-1.73192	0.56833	-0.00227	0.87712	0.74247	0.00560	0.73651
0.22570	-1.94499	1.54648	-0.12290	-1.72867	0.56606	-0.00224	0.87350	0.74186	0.00557	0.73796
0.23101	-1.98796	1.54856	-0.12842	-1.72460	0.56728	-0.00222	0.86852	0.74132	0.00584	0.73767
0.23645	-2.03353	1.55131	-0.13371	-1.72095	0.57269	-0.00222	0.86565	0.74024	0.00655	0.73467
0.24201	-2.07890	1.55433	-0.13883	-1.71792	0.58163	-0.00222	0.86524	0.73850	0.00767	0.72905
0.24771	-2.12263	1.55715	-0.14389	-1.71530	0.59271	-0.00224	0.86691	0.73618	0.00898	0.72207
0.25354	-2.16301	1.55947	-0.14901	-1.71302	0.60415	-0.00226	0.87036	0.73338	0.01019	0.71579
0.25950	-2.19586	1.56133	-0.15429	-1.71185	0.61473	-0.00227	0.87721	0.72997	0.01107	0.71153
0.26561	-2.22290	1.56347	-0.15978	-1.71207	0.62396	-0.00228	0.88712	0.72619	0.01168	0.70902
0.27186	-2.24127	1.56658	-0.16553	-1.71495	0.63245	-0.00228	0.90208	0.72185	0.01216	0.70719
0.27826	-2.25834	1.57087	-0.17142	-1.71943	0.64084	-0.00228	0.91878	0.71744	0.01265	0.70518
0.28480	-2.28490	1.57566	-0.17728	-1.72283	0.64934	-0.00228	0.93175	0.71359	0.01315	0.70297
0.29150	-2.32949	1.58001	-0.18299	-1.72258	0.65772	-0.00229	0.93672	0.71070	0.01358	0.70096
0.29836	-2.39092	1.58336	-0.18854	-1.71832	0.66623	-0.00230	0.93439	0.70857	0.01382	0.69987

0.30539	-2.47270	1.58561	-0.19391	-1.70920	0.67423	-0.00233	0.92255	0.70751	0.01388	0.69985
0.31257	-2.57725	1.58667	-0.19919	-1.69463	0.68068	-0.00236	0.89938	0.70786	0.01381	0.70050
0.31993	-2.70262	1.58650	-0.20453	-1.67489	0.68486	-0.00239	0.86572	0.70962	0.01365	0.70157
0.32745	-2.84618	1.58540	-0.20988	-1.65070	0.68661	-0.00242	0.82310	0.71281	0.01342	0.70305
0.33517	-3.00112	1.58360	-0.21522	-1.62360	0.68656	-0.00245	0.77504	0.71713	0.01305	0.70539
0.34304	-3.15886	1.58161	-0.22045	-1.59571	0.68550	-0.00247	0.72603	0.72209	0.01252	0.70888
0.35112	-3.31333	1.57995	-0.22554	-1.56870	0.68421	-0.00250	0.67962	0.72717	0.01184	0.71344
0.35938	-3.45583	1.57881	-0.23055	-1.54436	0.68327	-0.00251	0.63997	0.73160	0.01106	0.71885
0.36784	-3.58461	1.57820	-0.23557	-1.52303	0.68284	-0.00252	0.60789	0.73501	0.01024	0.72472
0.37649	-3.70092	1.57788	-0.24057	-1.50416	0.68288	-0.00253	0.58227	0.73741	0.00939	0.73105
0.38536	-3.80522	1.57742	-0.24557	-1.48724	0.68369	-0.00254	0.56240	0.73875	0.00847	0.73819
0.39442	-3.83751	1.57826	-0.25136	-1.48544	0.69528	-0.00254	0.57643	0.73196	0.00751	0.74588
0.40370	-3.97311	1.57621	-0.25556	-1.46008	0.68910	-0.00254	0.54250	0.73716	0.00661	0.75339
0.41321	-4.03673	1.57556	-0.26057	-1.44999	0.69323	-0.00254	0.54216	0.73419	0.00591	0.75979
0.42292	-4.08856	1.57491	-0.26557	-1.44198	0.69730	-0.00254	0.54714	0.73007	0.00546	0.76461
0.43288	-4.13325	1.57439	-0.27049	-1.43524	0.70054	-0.00253	0.55585	0.72523	0.00527	0.76774
0.44307	-4.17154	1.57404	-0.27529	-1.42964	0.70299	-0.00251	0.56795	0.71983	0.00530	0.76963
0.45349	-4.20431	1.57371	-0.28000	-1.42494	0.70485	-0.00250	0.58280	0.71405	0.00542	0.77102
0.46417	-4.23375	1.57334	-0.28458	-1.42060	0.70591	-0.00247	0.59942	0.70814	0.00555	0.77253
0.47508	-4.25953	1.57307	-0.28903	-1.41686	0.70687	-0.00245	0.61828	0.70197	0.00564	0.77456
0.48626	-4.27668	1.57318	-0.29336	-1.41502	0.70888	-0.00243	0.64221	0.69510	0.00565	0.77746
0.49771	-4.28367	1.57391	-0.29753	-1.41570	0.71251	-0.00241	0.67252	0.68743	0.00559	0.78103
0.50942	-4.28330	1.57555	-0.30144	-1.41869	0.71767	-0.00239	0.70878	0.67921	0.00556	0.78469
0.52140	-4.27614	1.57842	-0.30504	-1.42427	0.72417	-0.00238	0.75186	0.67043	0.00563	0.78777
0.53367	-4.26022	1.58260	-0.30840	-1.43301	0.73160	-0.00236	0.80338	0.66100	0.00590	0.78971
0.54624	-4.23294	1.58784	-0.31167	-1.44528	0.73937	-0.00234	0.86483	0.65092	0.00639	0.79013
0.55910	-4.19821	1.59419	-0.31485	-1.46042	0.74730	-0.00231	0.93495	0.64054	0.00716	0.78875
0.57225	-4.16359	1.60192	-0.31773	-1.47717	0.75489	-0.00228	1.01072	0.63038	0.00818	0.78563
0.58569	-4.13431	1.61068	-0.32032	-1.49414	0.76134	-0.00225	1.08887	0.62076	0.00933	0.78155
0.59948	-4.11495	1.61986	-0.32273	-1.50986	0.76623	-0.00222	1.16493	0.61201	0.01045	0.77759
0.61357	-4.10936	1.62899	-0.32497	-1.52317	0.76913	-0.00220	1.23364	0.60448	0.01142	0.77452
0.62802	-4.12436	1.63799	-0.32703	-1.53279	0.76957	-0.00217	1.28883	0.59848	0.01223	0.77255
0.64280	-4.16770	1.64667	-0.32895	-1.53704	0.76753	-0.00215	1.32364	0.59429	0.01288	0.77155
0.65794	-4.24190	1.65481	-0.33089	-1.53526	0.76282	-0.00214	1.33538	0.59187	0.01339	0.77151
0.67340	-4.34180	1.66248	-0.33290	-1.52844	0.75697	-0.00213	1.32887	0.59074	0.01378	0.77249
0.68927	-4.45727	1.67001	-0.33510	-1.51886	0.75097	-0.00213	1.31349	0.59010	0.01404	0.77460
0.70547	-4.58097	1.67734	-0.33771	-1.50785	0.74462	-0.00214	1.29458	0.58951	0.01423	0.77750
0.72207	-4.70739	1.68491	-0.34085	-1.49701	0.73722	-0.00214	1.27720	0.58855	0.01444	0.78038
0.73910	-4.83000	1.69330	-0.34456	-1.48825	0.73004	-0.00215	1.26773	0.58660	0.01473	0.78261
0.75649	-4.95060	1.70268	-0.34872	-1.48144	0.72359	-0.00214	1.26454	0.58383	0.01511	0.78382
0.77429	-5.07015	1.71280	-0.35332	-1.47632	0.71813	-0.00214	1.26592	0.58037	0.01560	0.78352
0.79246	-5.19627	1.72300	-0.35827	-1.47060	0.71316	-0.00214	1.26419	0.57693	0.01623	0.78131
0.81116	-5.34026	1.73276	-0.36338	-1.46161	0.70718	-0.00215	1.25055	0.57421	0.01701	0.77718
0.83022	-5.50542	1.74184	-0.36839	-1.44824	0.70075	-0.00216	1.22204	0.57248	0.01793	0.77122
0.84976	-5.69171	1.75052	-0.37313	-1.43079	0.69397	-0.00219	1.18065	0.57160	0.01899	0.76369
0.86972	-5.88940	1.75900	-0.37752	-1.41134	0.68771	-0.00221	1.13441	0.57087	0.02011	0.75529
0.89023	-6.09210	1.76726	-0.38156	-1.39114	0.68189	-0.00224	1.08908	0.56973	0.02120	0.74706
0.91116	-6.29393	1.77514	-0.38525	-1.37094	0.67587	-0.00227	1.04765	0.56801	0.02216	0.73991
0.93257	-6.49381	1.78269	-0.38860	-1.35099	0.66957	-0.00230	1.01046	0.56572	0.02302	0.73383
0.95456	-6.69167	1.78985	-0.39163	-1.33132	0.66320	-0.00233	0.97728	0.56278	0.02380	0.72852
0.97704	-6.88664	1.79667	-0.39434	-1.31209	0.65717	-0.00235	0.94838	0.55913	0.02456	0.72370
1.00000	-7.07765	1.80344	-0.39676	-1.29376	0.65213	-0.00238	0.92513	0.55455	0.02531	0.71916
1.02354	-7.26665	1.81039	-0.39886	-1.27614	0.64788	-0.00241	0.90682	0.54911	0.02606	0.71478
1.04767	-7.45472	1.81744	-0.40065	-1.25892	0.64267	-0.00243	0.89199	0.54297	0.02678	0.71080
1.07227	-7.64215	1.82467	-0.40202	-1.24192	0.63695	-0.00244	0.87969	0.53635	0.02743	0.70738
1.09745	-7.82475	1.83184	-0.40308	-1.22587	0.63094	-0.00245	0.87316	0.52877	0.02795	0.70489
1.12334	-7.99919	1.83895	-0.40388	-1.21147	0.62560	-0.00246	0.87579	0.51981	0.02836	0.70333
1.14982	-8.16139	1.84589	-0.40450	-1.19936	0.62172	-0.00247	0.89084	0.50913	0.02872	0.70233
1.17675	-8.30865	1.85260	-0.40497	-1.19001	0.61933	-0.00247	0.92114	0.49656	0.02906	0.70150
1.20453	-8.44231	1.85929	-0.40532	-1.18353	0.61911	-0.00247	0.97037	0.48175	0.02942	0.70070
1.23289	-8.56369	1.86609	-0.40547	-1.17961	0.62063	-0.00247	1.03853	0.46521	0.02977	0.69984
1.26183	-8.67640	1.87322	-0.40530	-1.17774	0.62327	-0.00246	1.12484	0.44749	0.03010	0.69898
1.29149	-8.78313	1.88086	-0.40475	-1.17764	0.62719	-0.00246	1.23010	0.42889	0.03039	0.69836
1.32188	-8.88480	1.88907	-0.40379	-1.17917	0.63253	-0.00245	1.35559	0.40971	0.03060	0.69820
1.35300	-8.98125	1.89773	-0.40245	-1.18228	0.63928	-0.00245	1.50356	0.39014	0.03074	0.69863
1.38485	-9.07250	1.90669	-0.40076	-1.18678	0.64742	-0.00244	1.67554	0.37042	0.03081	0.69972
1.41743	-9.15830	1.91577	-0.39877	-1.19255	0.65684	-0.00244	1.87317	0.35078	0.03081	0.70161
1.45075	-9.23892	1.92479	-0.39651	-1.19933	0.66730	-0.00243	2.09723	0.33140	0.03074	0.70434
1.48500	-9.31619	1.93368	-0.39397	-1.20675	0.67839	-0.00243	2.34803	0.31242	0.03061	0.70790
1.51999	-9.39059	1.94236	-0.39119	-1.21452	0.68989	-0.00242	2.62355	0.29406	0.03042	0.71221
1.55569	-9.46309	1.95089	-0.38817	-1.22250	0.70169	-0.00242	2.92303	0.27642	0.03017	0.71718
1.59236	-9.53556	1.95945	-0.38488	-1.23054	0.71376	-0.00241	3.24663	0.25947	0.02988	0.72278
1.62973	-9.60945	1.96810	-0.38134	-1.23830	0.72582	-0.00241	3.58796	0.24343	0.02955	0.72890
1.66806	-9.68727	1.97702	-0.37752	-1.24553	0.73770	-0.00241	3.94336	0.22831	0.02918	0.73552
1.70736	-9.77052	1.98630	-0.37343	-1.25197	0.74919	-0.00240	4.30682	0.21415	0.02878	0.74258
1.74764	-9.86031	1.99597	-0.36910	-1.25740	0.76009	-0.00240	4.67190	0.20099	0.02835	0.75007
1.78859	-9.95634	2.00594	-0.36459	-1.26168	0.77019	-0.00240	5.02983	0.18892	0.02791	0.75787
1.83083	-10.05995	2.01629	-0.35987	-1.26481	0.77953	-0.00240	5.38140	0.17771	0.02746	0.76608
1.87371	-10.16864	2.02677	-0.35506	-1.26683	0.78796	-0.00241	5.71855	0.16747	0.02701	0.77452
1.91791	-10.28291	2.03743	-0.35012	-1.26791	0.79570	-0.00241	6.04447	0.15799	0.02656	0.78329
1.96309	-10.40048	2.04807	-0.34514	-1.26821	0.80281	-0.00241	6.35611	0.14929	0.02611	0.79222

2.00924	-10.52011	2.05861	-0.34015	-1.26789	0.80937	-0.00242	6.65337	0.14131	0.02566	0.80119
2.05634	-10.64110	2.06898	-0.33518	-1.26704	0.81547	-0.00242	6.93452	0.13402	0.02521	0.81006
2.10482	-10.76433	2.07923	-0.33019	-1.26563	0.82115	-0.00242	7.19949	0.12733	0.02476	0.81874
2.15424	-10.88841	2.08929	-0.32526	-1.26376	0.82643	-0.00243	7.44449	0.12130	0.02432	0.82697
2.20507	-11.01437	2.09929	-0.32032	-1.26146	0.83138	-0.00243	7.67062	0.11583	0.02388	0.83465
2.25683	-11.14103	2.10920	-0.31542	-1.25882	0.83598	-0.00244	7.87470	0.11098	0.02346	0.84178
2.31000	-11.26971	2.11917	-0.31051	-1.25585	0.84031	-0.00244	8.05763	0.10667	0.02304	0.84850
2.36463	-11.40075	2.12928	-0.30559	-1.25253	0.84434	-0.00245	8.21788	0.10289	0.02263	0.85491
2.42014	-11.53286	2.13947	-0.30069	-1.24894	0.84806	-0.00245	8.35371	0.09966	0.02222	0.86107
2.47709	-11.66709	2.14987	-0.29577	-1.24515	0.85156	-0.00246	8.46768	0.09692	0.02181	0.86719
2.53550	-11.80332	2.16052	-0.29082	-1.24118	0.85488	-0.00246	8.55984	0.09466	0.02140	0.87344
2.59471	-11.93986	2.17133	-0.28590	-1.23715	0.85800	-0.00247	8.63025	0.09287	0.02099	0.87989
2.65604	-12.07921	2.18247	-0.28088	-1.23303	0.86101	-0.00247	8.68161	0.09152	0.02057	0.88674
2.71887	-12.21977	2.19384	-0.27586	-1.22887	0.86389	-0.00248	8.71349	0.09059	0.02015	0.89398
2.78242	-12.35945	2.20526	-0.27088	-1.22479	0.86661	-0.00248	8.72792	0.09006	0.01972	0.90156
2.84819	-12.50076	2.21690	-0.26581	-1.22073	0.86928	-0.00249	8.72790	0.08988	0.01929	0.90976
2.91545	-12.64227	2.22869	-0.26077	-1.21675	0.87186	-0.00249	8.71315	0.09005	0.01886	0.91853
2.98329	-12.78065	2.24026	-0.25578	-1.21303	0.87438	-0.00249	8.68784	0.09054	0.01842	0.92766
3.05344	-12.92016	2.25203	-0.25079	-1.20938	0.87687	-0.00250	8.64979	0.09134	0.01797	0.93715
3.12598	-13.05956	2.26380	-0.24572	-1.20594	0.87938	-0.00250	8.60283	0.09243	0.01752	0.94681
3.19898	-13.19558	2.27533	-0.24081	-1.20269	0.88181	-0.00250	8.54811	0.09374	0.01709	0.95607
3.27439	-13.33114	2.28681	-0.23582	-1.19967	0.88429	-0.00250	8.48737	0.09530	0.01665	0.96491
3.35121	-13.46443	2.29812	-0.23095	-1.19685	0.88677	-0.00250	8.42231	0.09700	0.01624	0.97303
3.43053	-13.59678	2.30935	-0.22600	-1.19434	0.88934	-0.00250	8.35464	0.09889	0.01583	0.98077
3.51124	-13.72671	2.32041	-0.22118	-1.19201	0.89192	-0.00250	8.28434	0.10089	0.01544	0.98827
3.59324	-13.85300	2.33109	-0.21634	-1.19008	0.89457	-0.00250	8.21489	0.10302	0.01504	0.99592
3.67782	-13.97992	2.34196	-0.21162	-1.18818	0.89724	-0.00250	8.14144	0.10523	0.01465	1.00410
3.76506	-14.10346	2.35232	-0.20674	-1.18680	0.90008	-0.00250	8.07226	0.10756	0.01424	1.01333
3.85356	-14.22771	2.36309	-0.20210	-1.18533	0.90285	-0.00250	7.99778	0.10992	0.01384	1.02324
3.94477	-14.34692	2.37302	-0.19727	-1.18445	0.90581	-0.00250	7.93139	0.11234	0.01342	1.03396
4.03714	-14.46775	2.38355	-0.19263	-1.18347	0.90870	-0.00250	7.85866	0.11482	0.01301	1.04487
4.13223	-14.58536	2.39349	-0.18798	-1.18275	0.91163	-0.00249	7.79012	0.11730	0.01260	1.05598
4.23012	-14.70219	2.40339	-0.18317	-1.18238	0.91469	-0.00249	7.72241	0.11990	0.01217	1.06696
4.32900	-14.82111	2.41386	-0.17872	-1.18162	0.91750	-0.00249	7.64822	0.12244	0.01178	1.07711
4.43066	-14.93234	2.42292	-0.17396	-1.18158	0.92052	-0.00248	7.58663	0.12497	0.01135	1.08685
4.53515	-15.05014	2.43326	-0.16932	-1.18122	0.92343	-0.00248	7.51462	0.12760	0.01094	1.09592
4.64253	-15.16660	2.44328	-0.16483	-1.18080	0.92624	-0.00248	7.44518	0.13012	0.01054	1.10439
4.75059	-15.27406	2.45191	-0.16003	-1.18114	0.92924	-0.00247	7.38866	0.13262	0.01012	1.11238
4.86145	-15.39203	2.46250	-0.15555	-1.18073	0.93194	-0.00247	7.31650	0.13516	0.00973	1.11968
4.97760	-15.50645	2.47211	-0.15100	-1.18056	0.93471	-0.00246	7.25334	0.13757	0.00933	1.12672
5.09424	-15.61204	2.48041	-0.14612	-1.18117	0.93767	-0.00246	7.20288	0.13996	0.00890	1.13345
5.21376	-15.73078	2.49118	-0.14163	-1.18084	0.94029	-0.00245	7.13422	0.14238	0.00852	1.13959
5.33618	-15.84306	2.50065	-0.13727	-1.18067	0.94285	-0.00245	7.07618	0.14458	0.00815	1.14548
5.46150	-15.94383	2.50809	-0.13237	-1.18159	0.94578	-0.00244	7.03659	0.14674	0.00773	1.15151
5.58971	-16.05930	2.51832	-0.12778	-1.18160	0.94838	-0.00243	6.97787	0.14898	0.00735	1.15725
5.72082	-16.17689	2.52885	-0.12363	-1.18106	0.95068	-0.00243	6.91707	0.15102	0.00702	1.16285
5.85823	-16.27477	2.53554	-0.11877	-1.18218	0.95357	-0.00242	6.88735	0.15293	0.00662	1.16916
5.99520	-16.37934	2.54388	-0.11398	-1.18296	0.95630	-0.00242	6.84816	0.15491	0.00623	1.17541
6.13497	-16.50064	2.55531	-0.10983	-1.18238	0.95848	-0.00241	6.78793	0.15684	0.00592	1.18138
6.28141	-16.60668	2.56357	-0.10558	-1.18261	0.96087	-0.00240	6.74993	0.15851	0.00559	1.18781
6.42674	-16.69347	2.56879	-0.10078	-1.18430	0.96372	-0.00240	6.73540	0.16012	0.00521	1.19460
6.57895	-16.80107	2.57767	-0.09611	-1.18499	0.96628	-0.00239	6.69929	0.16187	0.00486	1.20144
6.73401	-16.92574	2.58966	-0.09217	-1.18419	0.96822	-0.00238	6.64298	0.16352	0.00461	1.20793
6.89180	-17.02207	2.59642	-0.08815	-1.18477	0.97048	-0.00237	6.61887	0.16486	0.00431	1.21481
7.05716	-17.10314	2.60031	-0.08331	-1.18697	0.97338	-0.00237	6.61644	0.16625	0.00394	1.22236
7.22022	-17.20147	2.60785	-0.07887	-1.18799	0.97581	-0.00236	6.59294	0.16767	0.00363	1.22927
7.39098	-17.32584	2.61988	-0.07496	-1.18733	0.97765	-0.00235	6.54407	0.16909	0.00340	1.23568
7.56430	-17.43268	2.62860	-0.07149	-1.18703	0.97941	-0.00234	6.51174	0.17020	0.00319	1.24178
7.73994	-17.49744	2.62988	-0.06719	-1.18959	0.98211	-0.00234	6.52282	0.17126	0.00286	1.24824
7.92393	-17.58143	2.63457	-0.06273	-1.19149	0.98468	-0.00233	6.51831	0.17245	0.00254	1.25424
8.11030	-17.68526	2.64306	-0.05860	-1.19218	0.98681	-0.00232	6.49462	0.17363	0.00230	1.25941
8.29876	-17.81454	2.65619	-0.05527	-1.19086	0.98813	-0.00231	6.44669	0.17465	0.00216	1.26355
8.49618	-17.90617	2.66204	-0.05200	-1.19128	0.98989	-0.00230	6.43280	0.17546	0.00196	1.26795
8.69565	-17.95571	2.66056	-0.04790	-1.19462	0.99263	-0.00229	6.45659	0.17638	0.00163	1.27297
8.90472	-18.03574	2.66451	-0.04375	-1.19662	0.99501	-0.00229	6.45727	0.17736	0.00136	1.27758
9.11577	-18.12913	2.67111	-0.03984	-1.19780	0.99708	-0.00228	6.44627	0.17830	0.00113	1.28185
9.32836	-18.25893	2.68450	-0.03646	-1.19672	0.99835	-0.00226	6.40664	0.17908	0.00102	1.28542
9.54198	-18.37254	2.69473	-0.03387	-1.19544	0.99927	-0.00225	6.37758	0.17951	0.00094	1.28905
9.76563	-18.41078	2.69120	-0.03058	-1.19874	1.00166	-0.00225	6.40283	0.18033	0.00066	1.29449
10.00000	-18.45989	2.68955	-0.02677	-1.20205	1.00419	-0.00225	6.42539	0.18117	0.00036	1.30066

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
High stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 61 - 152 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-8.10072	3.40542	-0.04078	-1.62587	0.96366	-0.00103	0.77665	0.50298	-0.01601	0.33017
PGV	2.82970	1.94557	-0.14321	-2.53496	1.35474	-0.00181	5.71614	0.38701	-0.01092	0.41315
PGA	5.22928	1.79736	-0.06242	-3.47315	1.24168	-0.00123	8.73569	0.44006	-0.03867	0.79516
0.01000	6.36185	1.81315	-0.06384	-3.68373	1.25593	-0.00100	10.41377	0.42180	-0.01867	0.75217
0.01024	6.31570	1.81704	-0.06265	-3.67702	1.24715	-0.00100	10.32429	0.42402	-0.01868	0.75244
0.01048	6.27279	1.82088	-0.06145	-3.67087	1.23854	-0.00100	10.23887	0.42618	-0.01871	0.75275
0.01072	6.23375	1.82467	-0.06027	-3.66541	1.23008	-0.00099	10.15856	0.42828	-0.01875	0.75312
0.01097	6.19912	1.82841	-0.05909	-3.66071	1.22176	-0.00099	10.08420	0.43029	-0.01881	0.75354
0.01123	6.16957	1.83213	-0.05791	-3.65692	1.21358	-0.00099	10.01680	0.43222	-0.01888	0.75403
0.01150	6.14620	1.83584	-0.05674	-3.65422	1.20555	-0.00098	9.95787	0.43405	-0.01898	0.75462
0.01177	6.12908	1.83956	-0.05557	-3.65266	1.19770	-0.00097	9.90736	0.43577	-0.01910	0.75529
0.01205	6.11740	1.84329	-0.05440	-3.65207	1.19001	-0.00097	9.86393	0.43741	-0.01923	0.75603
0.01233	6.11023	1.84702	-0.05323	-3.65230	1.18244	-0.00096	9.82624	0.43897	-0.01938	0.75679
0.01262	6.10678	1.85075	-0.05205	-3.65318	1.17497	-0.00095	9.79311	0.44048	-0.01952	0.75754
0.01292	6.10642	1.85448	-0.05086	-3.65461	1.16755	-0.00094	9.76366	0.44194	-0.01968	0.75829
0.01322	6.10769	1.85819	-0.04967	-3.65630	1.16013	-0.00093	9.73588	0.44337	-0.01984	0.75908
0.01353	6.11068	1.86188	-0.04847	-3.65828	1.15271	-0.00092	9.70984	0.44478	-0.02001	0.75994
0.01385	6.11861	1.86561	-0.04726	-3.66114	1.14537	-0.00090	9.68988	0.44612	-0.02020	0.76088
0.01417	6.13501	1.86940	-0.04604	-3.66553	1.13813	-0.00089	9.68096	0.44733	-0.02040	0.76195
0.01451	6.16140	1.87327	-0.04482	-3.67170	1.13094	-0.00087	9.68521	0.44839	-0.02063	0.76315
0.01485	6.19692	1.87721	-0.04358	-3.67950	1.12378	-0.00086	9.70125	0.44932	-0.02087	0.76451
0.01520	6.24096	1.88122	-0.04234	-3.68880	1.11668	-0.00084	9.72832	0.45013	-0.02113	0.76603
0.01556	6.29122	1.88528	-0.04109	-3.69918	1.10965	-0.00082	9.76344	0.45085	-0.02141	0.76773
0.01592	6.34443	1.88934	-0.03984	-3.71004	1.10271	-0.00080	9.80210	0.45152	-0.02170	0.76956
0.01630	6.39742	1.89340	-0.03857	-3.72084	1.09586	-0.00078	9.83964	0.45220	-0.02200	0.77152
0.01668	6.44716	1.89748	-0.03725	-3.73104	1.08893	-0.00076	9.87107	0.45296	-0.02231	0.77365
0.01707	6.49620	1.90160	-0.03590	-3.74113	1.08197	-0.00074	9.89997	0.45377	-0.02266	0.77600
0.01748	6.55016	1.90581	-0.03453	-3.75210	1.07512	-0.00072	9.93478	0.45451	-0.02302	0.77850
0.01789	6.60890	1.91006	-0.03314	-3.76388	1.06817	-0.00070	9.97510	0.45519	-0.02336	0.78089
0.01831	6.66970	1.91435	-0.03175	-3.77597	1.06097	-0.00068	10.01657	0.45589	-0.02366	0.78305
0.01874	6.73234	1.91869	-0.03032	-3.78836	1.05367	-0.00066	10.05905	0.45659	-0.02395	0.78512
0.01918	6.79467	1.92312	-0.02884	-3.80070	1.04647	-0.00064	10.10021	0.45732	-0.02426	0.78733
0.01963	6.85298	1.92761	-0.02729	-3.81231	1.03946	-0.00062	10.13519	0.45812	-0.02461	0.78979
0.02009	6.90728	1.93207	-0.02572	-3.82312	1.03240	-0.00061	10.16445	0.45899	-0.02500	0.79252
0.02057	6.96492	1.93646	-0.02417	-3.83435	1.02505	-0.00059	10.19893	0.45982	-0.02543	0.79547
0.02105	7.02587	1.94087	-0.02261	-3.84604	1.01750	-0.00057	10.23749	0.46061	-0.02587	0.79850
0.02154	7.08267	1.94536	-0.02100	-3.85700	1.00996	-0.00056	10.26833	0.46151	-0.02628	0.80137
0.02205	7.13915	1.94993	-0.01936	-3.86791	1.00246	-0.00054	10.29697	0.46245	-0.02665	0.80394
0.02257	7.20638	1.95458	-0.01776	-3.88066	0.99475	-0.00052	10.33905	0.46326	-0.02696	0.80616
0.02310	7.28741	1.95937	-0.01614	-3.89581	0.98662	-0.00050	10.39822	0.46391	-0.02725	0.80816
0.02364	7.37118	1.96441	-0.01443	-3.91149	0.97818	-0.00048	10.45790	0.46461	-0.02753	0.81020
0.02420	7.44390	1.96961	-0.01260	-3.92530	0.96959	-0.00046	10.49981	0.46555	-0.02787	0.81259
0.02477	7.49474	1.97475	-0.01072	-3.93520	0.96088	-0.00045	10.51105	0.46684	-0.02827	0.81536
0.02535	7.51420	1.97975	-0.00873	-3.93951	0.95218	-0.00044	10.47950	0.46859	-0.02872	0.81852
0.02595	7.51035	1.98474	-0.00665	-3.93971	0.94356	-0.00044	10.41619	0.47071	-0.02922	0.82201
0.02656	7.50036	1.98991	-0.00451	-3.93888	0.93502	-0.00044	10.34386	0.47296	-0.02974	0.82570
0.02719	7.49506	1.99529	-0.00233	-3.93890	0.92632	-0.00045	10.27629	0.47521	-0.03025	0.82940
0.02783	7.49853	2.00081	-0.00017	-3.94045	0.91715	-0.00045	10.21837	0.47740	-0.03073	0.83296
0.02848	7.49736	2.00626	0.00198	-3.94104	0.90759	-0.00045	10.15443	0.47967	-0.03119	0.83646
0.02915	7.47547	2.01158	0.00416	-3.93783	0.89799	-0.00045	10.06675	0.48223	-0.03166	0.84004
0.02984	7.43826	2.01704	0.00638	-3.93195	0.88866	-0.00046	9.96257	0.48501	-0.03213	0.84371
0.03054	7.37888	2.02276	0.00874	-3.92240	0.87962	-0.00048	9.82929	0.48818	-0.03257	0.84728
0.03126	7.28119	2.02873	0.01140	-3.90650	0.87030	-0.00051	9.64215	0.49210	-0.03294	0.85051
0.03199	7.15909	2.03498	0.01431	-3.88656	0.86008	-0.00054	9.42072	0.49659	-0.03326	0.85350
0.03275	7.02590	2.04135	0.01730	-3.86462	0.84888	-0.00056	9.18744	0.50138	-0.03358	0.85661
0.03352	6.88491	2.04769	0.02032	-3.84111	0.83670	-0.00059	8.94933	0.50639	-0.03396	0.86012
0.03430	6.74469	2.05409	0.02329	-3.81762	0.82390	-0.00062	8.71663	0.51146	-0.03429	0.86342
0.03511	6.62381	2.06058	0.02611	-3.79744	0.81138	-0.00065	8.51374	0.51620	-0.03454	0.86611
0.03594	6.54871	2.06732	0.02867	-3.78514	0.80001	-0.00067	8.37457	0.52007	-0.03472	0.86840
0.03678	6.51205	2.07445	0.03099	-3.77960	0.79010	-0.00068	8.28799	0.52316	-0.03486	0.87039
0.03765	6.45499	2.08174	0.03336	-3.77075	0.78076	-0.00070	8.17751	0.52661	-0.03496	0.87217
0.03854	6.32791	2.08889	0.03616	-3.74990	0.77068	-0.00074	7.98235	0.53141	-0.03505	0.87389
0.03944	6.12997	2.09595	0.03943	-3.71684	0.75914	-0.00078	7.70547	0.53767	-0.03518	0.87588
0.04037	5.89287	2.10298	0.04302	-3.67697	0.74654	-0.00083	7.39007	0.54481	-0.03537	0.87836
0.04132	5.65375	2.11006	0.04672	-3.63679	0.73472	-0.00089	7.08359	0.55202	-0.03563	0.88127
0.04229	5.43076	2.11726	0.05039	-3.59968	0.72476	-0.00094	6.80526	0.55886	-0.03595	0.88447
0.04329	5.22071	2.12442	0.05393	-3.56502	0.71551	-0.00099	6.54731	0.56548	-0.03626	0.88764
0.04431	5.00569	2.13107	0.05734	-3.52925	0.70582	-0.00104	6.29013	0.57224	-0.03654	0.89048
0.04535	4.77673	2.13699	0.06063	-3.49068	0.69555	-0.00109	6.02380	0.57937	-0.03676	0.89284

0.04642	4.55445	2.14225	0.06362	-3.45289	0.68503	-0.00113	5.76945	0.58643	-0.03690	0.89464
0.04751	4.37564	2.14704	0.06622	-3.42210	0.67595	-0.00117	5.56788	0.59243	-0.03702	0.89615
0.04863	4.24822	2.15190	0.06859	-3.40001	0.66946	-0.00121	5.42728	0.59706	-0.03717	0.89780
0.04977	4.13009	2.15736	0.07094	-3.37992	0.66344	-0.00124	5.29981	0.60150	-0.03736	0.89971
0.05094	3.98656	2.16309	0.07327	-3.35572	0.65459	-0.00127	5.14487	0.60687	-0.03753	0.90150
0.05214	3.81083	2.16842	0.07564	-3.32579	0.64250	-0.00130	4.95741	0.61332	-0.03773	0.90350
0.05337	3.59073	2.17295	0.07838	-3.28802	0.63053	-0.00133	4.73579	0.62077	-0.03803	0.90612
0.05462	3.34937	2.17667	0.08128	-3.24655	0.62148	-0.00138	4.50565	0.62847	-0.03832	0.90862
0.05591	3.14076	2.17946	0.08375	-3.21034	0.61567	-0.00142	4.31325	0.63507	-0.03853	0.91067
0.05722	2.97200	2.18090	0.08573	-3.17998	0.61238	-0.00146	4.16306	0.64035	-0.03873	0.91281
0.05857	2.81099	2.18045	0.08754	-3.14950	0.61145	-0.00151	4.02777	0.64501	-0.03906	0.91587
0.05995	2.64257	2.17830	0.08928	-3.11638	0.61183	-0.00156	3.89256	0.64960	-0.03955	0.92023
0.06136	2.46713	2.17534	0.09078	-3.08138	0.60988	-0.00160	3.75016	0.65464	-0.04007	0.92499
0.06280	2.31430	2.17177	0.09176	-3.04960	0.60532	-0.00163	3.62319	0.65942	-0.04055	0.92955
0.06428	2.24019	2.16783	0.09186	-3.03059	0.60226	-0.00165	3.56160	0.66189	-0.04100	0.93406
0.06579	2.25024	2.16488	0.09112	-3.02647	0.60333	-0.00166	3.57109	0.66169	-0.04125	0.93733
0.06734	2.27951	2.16370	0.09021	-3.02727	0.60806	-0.00168	3.59772	0.66081	-0.04113	0.93813
0.06893	2.26752	2.16359	0.08964	-3.02241	0.61374	-0.00171	3.59024	0.66116	-0.04065	0.93661
0.07055	2.22202	2.16375	0.08918	-3.01221	0.61779	-0.00174	3.55499	0.66260	-0.03996	0.93362
0.07221	2.17079	2.16298	0.08826	-3.00029	0.61999	-0.00176	3.51480	0.66423	-0.03934	0.93093
0.07391	2.10033	2.15982	0.08696	-2.98354	0.62213	-0.00179	3.45937	0.66618	-0.03897	0.92979
0.07565	1.98343	2.15423	0.08598	-2.95752	0.62504	-0.00182	3.36845	0.66919	-0.03874	0.92939
0.07743	1.82723	2.14717	0.08557	-2.92406	0.62732	-0.00186	3.24610	0.67338	-0.03848	0.92855
0.07925	1.66109	2.14031	0.08560	-2.88905	0.62852	-0.00189	3.11616	0.67815	-0.03814	0.92705
0.08111	1.52186	2.13384	0.08552	-2.85870	0.62895	-0.00193	3.00630	0.68238	-0.03763	0.92430
0.08302	1.39528	2.12701	0.08519	-2.82986	0.62650	-0.00195	2.90372	0.68663	-0.03691	0.92018
0.08498	1.26094	2.11903	0.08454	-2.79852	0.62086	-0.00196	2.79361	0.69148	-0.03606	0.91540
0.08697	1.13024	2.11049	0.08342	-2.76726	0.61567	-0.00197	2.68787	0.69625	-0.03524	0.91095
0.08902	1.01350	2.10213	0.08186	-2.73859	0.61261	-0.00199	2.59478	0.70048	-0.03461	0.90811
0.09112	0.89861	2.09305	0.07994	-2.70972	0.60906	-0.00200	2.50309	0.70473	-0.03425	0.90724
0.09326	0.78396	2.08197	0.07752	-2.67928	0.60315	-0.00200	2.41033	0.70913	-0.03404	0.90748
0.09545	0.68805	2.06920	0.07440	-2.65079	0.59678	-0.00200	2.33042	0.71279	-0.03382	0.90783
0.09770	0.60570	2.05673	0.07088	-2.62509	0.59241	-0.00200	2.26323	0.71572	-0.03351	0.90786
0.10000	0.53603	2.04527	0.06715	-2.60257	0.59138	-0.00201	2.21048	0.71774	-0.03313	0.90769
0.10235	0.46885	2.03442	0.06352	-2.58096	0.59261	-0.00202	2.16615	0.71922	-0.03274	0.90752
0.10476	0.39784	2.02342	0.06010	-2.55839	0.59467	-0.00204	2.12399	0.72055	-0.03230	0.90715
0.10723	0.32022	2.01229	0.05685	-2.53433	0.59724	-0.00206	2.08010	0.72201	-0.03179	0.90631
0.10975	0.25444	2.00036	0.05324	-2.51170	0.60102	-0.00208	2.04219	0.72298	-0.03125	0.90525
0.11233	0.20127	1.98827	0.04925	-2.49146	0.60642	-0.00210	2.00953	0.72348	-0.03076	0.90455
0.11498	0.14854	1.97726	0.04529	-2.47256	0.61332	-0.00213	1.97624	0.72400	-0.03043	0.90473
0.11768	0.11165	1.96709	0.04122	-2.45740	0.62246	-0.00215	1.95291	0.72381	-0.03013	0.90498
0.12045	0.07868	1.95637	0.03715	-2.44248	0.63258	-0.00218	1.93226	0.72333	-0.02969	0.90411
0.12328	0.01574	1.94441	0.03344	-2.42102	0.64028	-0.00221	1.89315	0.72418	-0.02908	0.90195
0.12619	-0.04318	1.93156	0.02920	-2.39938	0.64484	-0.00223	1.85336	0.72521	-0.02819	0.89785
0.12916	-0.11112	1.92156	0.02486	-2.37851	0.64596	-0.00223	1.80773	0.72720	-0.02683	0.89054
0.13219	-0.17897	1.91488	0.02051	-2.36055	0.64727	-0.00224	1.76545	0.72932	-0.02510	0.88071
0.13531	-0.21689	1.90882	0.01585	-2.34856	0.65476	-0.00226	1.74679	0.72938	-0.02344	0.87110
0.13849	-0.27030	1.90261	0.01179	-2.33377	0.66821	-0.00230	1.72612	0.72923	-0.02212	0.86362
0.14175	-0.34857	1.89390	0.00793	-2.31271	0.68316	-0.00235	1.69023	0.72988	-0.02113	0.85810
0.14508	-0.45528	1.88224	0.00401	-2.28426	0.69413	-0.00240	1.63188	0.73223	-0.02030	0.85352
0.14850	-0.57610	1.86866	-0.00013	-2.25169	0.69843	-0.00242	1.55923	0.73606	-0.01958	0.84941
0.15199	-0.69966	1.85398	-0.00457	-2.21767	0.69590	-0.00243	1.48067	0.74088	-0.01887	0.84527
0.15557	-0.83515	1.83864	-0.00914	-2.18102	0.68799	-0.00242	1.39364	0.74702	-0.01802	0.84024
0.15923	-0.97215	1.82345	-0.01401	-2.14447	0.67795	-0.00241	1.30600	0.75375	-0.01689	0.83340
0.16298	-1.09742	1.81033	-0.01915	-2.11211	0.66953	-0.00239	1.22790	0.76006	-0.01550	0.82490
0.16681	-1.20921	1.80001	-0.02430	-2.08492	0.66544	-0.00239	1.16238	0.76541	-0.01407	0.81603
0.17074	-1.30737	1.79182	-0.02942	-2.06215	0.66609	-0.00240	1.10982	0.76953	-0.01276	0.80795
0.17475	-1.38460	1.78485	-0.03472	-2.04403	0.67097	-0.00241	1.07309	0.77187	-0.01165	0.80137
0.17887	-1.43408	1.77828	-0.04045	-2.03089	0.67922	-0.00243	1.05411	0.77200	-0.01081	0.79670
0.18307	-1.47251	1.77170	-0.04633	-2.01936	0.68771	-0.00245	1.04317	0.77118	-0.01017	0.79349
0.18738	-1.51131	1.76412	-0.05222	-2.00668	0.69363	-0.00246	1.03187	0.77045	-0.00954	0.79040
0.19179	-1.56140	1.75589	-0.05776	-1.99122	0.69633	-0.00246	1.01440	0.77064	-0.00875	0.78622
0.19631	-1.61343	1.74806	-0.06297	-1.97549	0.69777	-0.00246	0.99636	0.77110	-0.00784	0.78130
0.20092	-1.65378	1.74152	-0.06819	-1.96246	0.69941	-0.00247	0.98557	0.77086	-0.00690	0.77648
0.20565	-1.67581	1.73601	-0.07394	-1.95319	0.69998	-0.00246	0.98343	0.76975	-0.00593	0.77171
0.21049	-1.68979	1.73071	-0.08032	-1.94553	0.69677	-0.00244	0.98202	0.76877	-0.00495	0.76708
0.21544	-1.71046	1.72504	-0.08692	-1.93666	0.68945	-0.00240	0.97384	0.76879	-0.00413	0.76338
0.22051	-1.74427	1.71911	-0.09334	-1.92544	0.68062	-0.00237	0.95909	0.76966	-0.00360	0.76137
0.22570	-1.79991	1.71310	-0.09936	-1.91026	0.67255	-0.00234	0.93684	0.77146	-0.00337	0.76131
0.23101	-1.88712	1.70677	-0.10488	-1.88912	0.66591	-0.00233	0.90328	0.77474	-0.00334	0.76274
0.23645	-2.00810	1.69966	-0.11001	-1.86130	0.66045	-0.00234	0.85697	0.77987	-0.00339	0.76491
0.24201	-2.14493	1.69182	-0.11505	-1.83014	0.65605	-0.00236	0.80536	0.78598	-0.00340	0.76702
0.24771	-2.28278	1.68386	-0.12026	-1.79892	0.65186	-0.00237	0.75394	0.79250	-0.00316	0.76766
0.25354	-2.41132	1.67644	-0.12575	-1.77029	0.64732	-0.00237	0.70604	0.79898	-0.00250	0.76562
0.25950	-2.52319	1.67019	-0.13156	-1.74628	0.64263	-0.00236	0.66454	0.80487	-0.00143	0.76070
0.26561	-2.61018	1.66563	-0.13766	-1.72884	0.63856	-0.00233	0.63337	0.80922	-0.00010	0.75402
0.27186	-2.67220	1.66294	-0.14386	-1.71797	0.63580	-0.00230	0.61343	0.81156	0.00111	0.74801
0.27826	-2.70959	1.66172	-0.15016	-1.71303	0.63544	-0.00227	0.60548	0.81142	0.00189	0.74484
0.28480	-2.72700	1.66172	-0.15648	-1.71277	0.63868	-0.00224	0.60864	0.80879	0.00219	0.74468
0.29150	-2.73991	1.66287	-0.16250	-1.71425	0.64570	-0.00223	0.61768	0.80483	0.00216	0.74637
0.29836	-2.75979	1.66460	-0.16809	-1.71487	0.65644	-0.00224	0.62806	0.80045	0.00197	0.74886

0.30539	-2.79757	1.66649	-0.17319	-1.71223	0.67069	-0.00227	0.63511	0.79655	0.00174	0.75140
0.31257	-2.85251	1.66818	-0.17802	-1.70605	0.68819	-0.00232	0.63834	0.79320	0.00151	0.75382
0.31993	-2.91581	1.66937	-0.18289	-1.69762	0.70832	-0.00239	0.64064	0.78980	0.00124	0.75655
0.32745	-2.97993	1.67040	-0.18783	-1.68863	0.72978	-0.00247	0.64439	0.78602	0.00092	0.75960
0.33517	-3.03908	1.67171	-0.19293	-1.68060	0.75093	-0.00255	0.65155	0.78165	0.00057	0.76278
0.34304	-3.09964	1.67327	-0.19806	-1.67231	0.76834	-0.00262	0.65821	0.77766	0.00022	0.76590
0.35112	-3.16638	1.67412	-0.20338	-1.66205	0.77879	-0.00267	0.66008	0.77487	-0.00008	0.76865
0.35938	-3.25015	1.67375	-0.20880	-1.64743	0.78009	-0.00270	0.65071	0.77457	-0.00026	0.77042
0.36784	-3.35885	1.67224	-0.21426	-1.62721	0.77227	-0.00271	0.62661	0.77751	-0.00017	0.77035
0.37649	-3.49563	1.67003	-0.21962	-1.60142	0.75698	-0.00270	0.58759	0.78404	0.00028	0.76786
0.38536	-3.65579	1.66749	-0.22485	-1.57149	0.73739	-0.00268	0.53790	0.79371	0.00101	0.76356
0.39442	-3.83183	1.66499	-0.22995	-1.53921	0.71673	-0.00266	0.48324	0.80571	0.00186	0.75850
0.40370	-4.01420	1.66298	-0.23494	-1.50678	0.69722	-0.00264	0.42929	0.81900	0.00273	0.75357
0.41321	-4.18726	1.66159	-0.24001	-1.47730	0.68050	-0.00262	0.38193	0.83186	0.00346	0.74974
0.42292	-4.34665	1.66147	-0.24504	-1.45213	0.66717	-0.00260	0.34271	0.84349	0.00401	0.74724
0.43288	-4.48558	1.66290	-0.25019	-1.43277	0.65792	-0.00258	0.31328	0.85255	0.00451	0.74545
0.44307	-4.60615	1.66566	-0.25547	-1.41851	0.65292	-0.00257	0.29212	0.85887	0.00504	0.74381
0.45349	-4.71189	1.66919	-0.26092	-1.40809	0.65197	-0.00256	0.27725	0.86268	0.00561	0.74235
0.46417	-4.80339	1.67337	-0.26656	-1.40120	0.65498	-0.00256	0.26803	0.86390	0.00622	0.74117
0.47508	-4.88151	1.67834	-0.27238	-1.39776	0.66165	-0.00256	0.26411	0.86246	0.00686	0.74009
0.48626	-4.94345	1.68363	-0.27849	-1.39784	0.67148	-0.00256	0.26600	0.85794	0.00748	0.73935
0.49771	-4.99251	1.68852	-0.28486	-1.40007	0.68344	-0.00257	0.27279	0.85077	0.00796	0.73953
0.50942	-5.03409	1.69261	-0.29140	-1.40286	0.69651	-0.00258	0.28347	0.84156	0.00826	0.74078
0.52140	-5.07374	1.69585	-0.29806	-1.40497	0.71005	-0.00259	0.29692	0.83102	0.00843	0.74291
0.53367	-5.11653	1.69834	-0.30485	-1.40543	0.72328	-0.00261	0.31157	0.82006	0.00852	0.74565
0.54624	-5.16708	1.70030	-0.31167	-1.40359	0.73512	-0.00263	0.32537	0.80970	0.00862	0.74838
0.55910	-5.23019	1.70217	-0.31833	-1.39902	0.74415	-0.00266	0.33628	0.80080	0.00887	0.75006
0.57225	-5.30895	1.70433	-0.32462	-1.39148	0.74940	-0.00267	0.34294	0.79382	0.00936	0.75003
0.58569	-5.40294	1.70673	-0.33045	-1.38103	0.75085	-0.00268	0.34496	0.78880	0.01001	0.74878
0.59948	-5.50874	1.70897	-0.33595	-1.36792	0.74909	-0.00269	0.34286	0.78545	0.01063	0.74756
0.61357	-5.61896	1.71068	-0.34123	-1.35318	0.74498	-0.00269	0.33830	0.78312	0.01106	0.74758
0.62802	-5.72795	1.71196	-0.34642	-1.33795	0.73946	-0.00268	0.33336	0.78104	0.01124	0.74934
0.64280	-5.83195	1.71312	-0.35149	-1.32320	0.73337	-0.00267	0.32963	0.77863	0.01120	0.75278
0.65794	-5.92902	1.71446	-0.35639	-1.30960	0.72752	-0.00265	0.32824	0.77545	0.01099	0.75769
0.67340	-6.01529	1.71616	-0.36106	-1.29815	0.72278	-0.00263	0.33051	0.77107	0.01059	0.76399
0.68927	-6.08887	1.71824	-0.36549	-1.28932	0.71946	-0.00261	0.33722	0.76526	0.01000	0.77182
0.70547	-6.15031	1.72081	-0.36962	-1.28314	0.71737	-0.00259	0.34826	0.75826	0.00928	0.78055
0.72207	-6.20178	1.72429	-0.37345	-1.27963	0.71646	-0.00256	0.36363	0.75022	0.00861	0.78890
0.73910	-6.24671	1.72891	-0.37694	-1.27838	0.71658	-0.00253	0.38258	0.74159	0.00813	0.79554
0.75649	-6.29057	1.73448	-0.38008	-1.27811	0.71704	-0.00251	0.40272	0.73326	0.00794	0.79978
0.77429	-6.33747	1.74056	-0.38290	-1.27761	0.71727	-0.00248	0.42148	0.72597	0.00798	0.80153
0.79246	-6.38906	1.74671	-0.38544	-1.27616	0.71711	-0.00246	0.43696	0.72012	0.00821	0.80094
0.81116	-6.44686	1.75278	-0.38774	-1.27332	0.71642	-0.00243	0.44833	0.71578	0.00856	0.79849
0.83022	-6.51183	1.75879	-0.38973	-1.26888	0.71493	-0.00241	0.45489	0.71304	0.00900	0.79481
0.84976	-6.58649	1.76481	-0.39140	-1.26241	0.71174	-0.00239	0.45595	0.71195	0.00948	0.79034
0.86972	-6.67172	1.77083	-0.39278	-1.25377	0.70621	-0.00237	0.45094	0.71263	0.01001	0.78537
0.89023	-6.76919	1.77685	-0.39398	-1.24276	0.69766	-0.00234	0.43910	0.71530	0.01063	0.78002
0.91116	-6.87832	1.78287	-0.39505	-1.22958	0.68575	-0.00231	0.42039	0.72021	0.01133	0.77475
0.93257	-6.99976	1.78908	-0.39602	-1.21443	0.67118	-0.00227	0.39526	0.72752	0.01210	0.76978
0.95456	-7.13358	1.79582	-0.39686	-1.19772	0.65552	-0.00223	0.36503	0.73724	0.01290	0.76517
0.97704	-7.27895	1.80344	-0.39753	-1.18007	0.64070	-0.00221	0.33163	0.74912	0.01376	0.76084
1.00000	-7.43361	1.81239	-0.39803	-1.16242	0.62830	-0.00219	0.29770	0.76258	0.01468	0.75668
1.02354	-7.59514	1.82293	-0.39845	-1.14570	0.61903	-0.00219	0.26531	0.77691	0.01567	0.75263
1.04767	-7.76119	1.83505	-0.39883	-1.13044	0.61331	-0.00221	0.23576	0.79145	0.01669	0.74878
1.07227	-7.92928	1.84846	-0.39921	-1.11685	0.61167	-0.00223	0.20985	0.80551	0.01770	0.74538
1.09745	-8.09700	1.86274	-0.39973	-1.10500	0.61369	-0.00227	0.18785	0.81846	0.01863	0.74282
1.12334	-8.26218	1.87748	-0.40051	-1.09485	0.61850	-0.00232	0.16975	0.82977	0.01942	0.74163
1.14982	-8.42180	1.89213	-0.40165	-1.08638	0.62475	-0.00237	0.15540	0.83896	0.02001	0.74219
1.17675	-8.57320	1.90632	-0.40319	-1.07964	0.63133	-0.00242	0.14461	0.84553	0.02033	0.74470
1.20453	-8.71856	1.92005	-0.40506	-1.07436	0.63800	-0.00246	0.13695	0.84919	0.02036	0.74934
1.23289	-8.86067	1.93295	-0.40708	-1.06947	0.64408	-0.00250	0.13141	0.85041	0.02010	0.75590
1.26183	-9.00440	1.94484	-0.40912	-1.06365	0.64863	-0.00254	0.12690	0.84994	0.01958	0.76397
1.29149	-9.15291	1.95572	-0.41111	-1.05628	0.65161	-0.00259	0.12298	0.84808	0.01889	0.77305
1.32188	-9.30533	1.96570	-0.41310	-1.04755	0.65352	-0.00263	0.11987	0.84451	0.01813	0.78248
1.35300	-9.45957	1.97497	-0.41510	-1.03810	0.65462	-0.00267	0.11800	0.83878	0.01743	0.79145
1.38485	-9.61520	1.98381	-0.41711	-1.02830	0.65435	-0.00271	0.11734	0.83103	0.01694	0.79904
1.41743	-9.77043	1.99242	-0.41911	-1.01875	0.65296	-0.00274	0.11816	0.82109	0.01677	0.80458
1.45075	-9.92430	2.00087	-0.42097	-1.00977	0.65097	-0.00276	0.12057	0.80896	0.01693	0.80801
1.48500	-10.07642	2.00923	-0.42261	-1.00158	0.64873	-0.00279	0.12484	0.79449	0.01738	0.80974
1.51999	-10.22356	2.01746	-0.42394	-0.99476	0.64691	-0.00280	0.13160	0.77739	0.01801	0.81026
1.55569	-10.36255	2.02564	-0.42495	-0.98999	0.64642	-0.00281	0.14205	0.75700	0.01877	0.80992
1.59236	-10.49265	2.03386	-0.42564	-0.98756	0.64769	-0.00282	0.15753	0.73295	0.01961	0.80903
1.62973	-10.61151	2.04215	-0.42596	-0.98783	0.65112	-0.00283	0.17978	0.70525	0.02049	0.80791
1.66806	-10.71975	2.05061	-0.42583	-0.99082	0.65679	-0.00283	0.21103	0.67403	0.02136	0.80689
1.70736	-10.81838	2.05923	-0.42515	-0.99625	0.66451	-0.00283	0.25354	0.64007	0.02217	0.80638
1.74764	-10.90865	2.06799	-0.42388	-1.00378	0.67425	-0.00283	0.30988	0.60425	0.02285	0.80674
1.78859	-10.99322	2.07682	-0.42199	-1.01259	0.68534	-0.00283	0.38095	0.56820	0.02341	0.80806
1.83083	-11.07532	2.08586	-0.41944	-1.02233	0.69749	-0.00282	0.46960	0.53224	0.02386	0.81024
1.87371	-11.15677	2.09495	-0.41631	-1.03213	0.70973	-0.00282	0.57438	0.49790	0.02426	0.81301
1.91791	-11.24035	2.10417	-0.41263	-1.04168	0.72177	-0.00281	0.69696	0.46505	0.02463	0.81610
1.96309	-11.32615	2.11335	-0.40845	-1.05065	0.73336	-0.00280	0.83627	0.43414	0.02500	0.81932

2.00924	-11.41311	2.12239	-0.40384	-1.05911	0.74475	-0.00280	0.99352	0.40498	0.02534	0.82274
2.05634	-11.50094	2.13120	-0.39885	-1.06703	0.75603	-0.00279	1.16878	0.37754	0.02561	0.82645
2.10482	-11.58938	2.13983	-0.39349	-1.07464	0.76745	-0.00279	1.36514	0.35145	0.02579	0.83047
2.15424	-11.67830	2.14824	-0.38784	-1.08174	0.77867	-0.00279	1.57948	0.32704	0.02589	0.83461
2.20507	-11.76843	2.15654	-0.38191	-1.08842	0.78971	-0.00279	1.81315	0.30408	0.02592	0.83876
2.25683	-11.85916	2.16468	-0.37579	-1.09457	0.80029	-0.00278	2.06229	0.28276	0.02586	0.84291
2.31000	-11.95183	2.17280	-0.36947	-1.10022	0.81042	-0.00278	2.32667	0.26289	0.02573	0.84713
2.36463	-12.04726	2.18096	-0.36297	-1.10523	0.81997	-0.00278	2.60257	0.24449	0.02553	0.85145
2.42014	-12.14504	2.18914	-0.35640	-1.10949	0.82880	-0.00278	2.88305	0.22768	0.02527	0.85588
2.47709	-12.24627	2.19745	-0.34972	-1.11306	0.83698	-0.00278	3.16755	0.21224	0.02498	0.86050
2.53550	-12.35134	2.20600	-0.34296	-1.11593	0.84451	-0.00278	3.45144	0.19815	0.02467	0.86538
2.59471	-12.45889	2.21472	-0.33621	-1.11815	0.85137	-0.00278	3.72839	0.18548	0.02435	0.87058
2.65604	-12.57085	2.22377	-0.32935	-1.11985	0.85772	-0.00277	4.00092	0.17395	0.02402	0.87623
2.71887	-12.68607	2.23311	-0.32250	-1.12100	0.86347	-0.00277	4.26158	0.16365	0.02369	0.88227
2.78242	-12.80265	2.24258	-0.31575	-1.12170	0.86862	-0.00277	4.50540	0.15463	0.02337	0.88867
2.84819	-12.92255	2.25231	-0.30895	-1.12202	0.87335	-0.00277	4.73548	0.14664	0.02306	0.89564
2.91545	-13.04448	2.26228	-0.30224	-1.12200	0.87767	-0.00277	4.94711	0.13969	0.02277	0.90315
2.98329	-13.16572	2.27210	-0.29569	-1.12167	0.88154	-0.00276	5.13595	0.13383	0.02249	0.91102
3.05344	-13.28975	2.28219	-0.28919	-1.12102	0.88511	-0.00276	5.30503	0.12883	0.02223	0.91920
3.12598	-13.41532	2.29230	-0.28270	-1.12018	0.88842	-0.00276	5.45416	0.12470	0.02198	0.92750
3.19898	-13.53933	2.30228	-0.27647	-1.11913	0.89141	-0.00275	5.57832	0.12146	0.02175	0.93543
3.27439	-13.66441	2.31225	-0.27027	-1.11793	0.89420	-0.00275	5.68234	0.11899	0.02154	0.94292
3.35121	-13.78892	2.32213	-0.26428	-1.11656	0.89672	-0.00275	5.76282	0.11727	0.02134	0.94975
3.43053	-13.91416	2.33196	-0.25832	-1.11508	0.89903	-0.00275	5.82185	0.11629	0.02113	0.95629
3.51124	-14.03873	2.34170	-0.25259	-1.11340	0.90109	-0.00274	5.85828	0.11596	0.02092	0.96271
3.59324	-14.16153	2.35107	-0.24697	-1.11164	0.90291	-0.00274	5.87337	0.11631	0.02067	0.96946
3.67782	-14.28653	2.36069	-0.24153	-1.10957	0.90446	-0.00273	5.86760	0.11718	0.02040	0.97694
3.76506	-14.41025	2.36974	-0.23611	-1.10737	0.90577	-0.00273	5.84184	0.11872	0.02004	0.98575
3.85356	-14.53600	2.37926	-0.23094	-1.10487	0.90681	-0.00272	5.79788	0.12062	0.01966	0.99545
3.94477	-14.65859	2.38788	-0.22583	-1.10231	0.90765	-0.00272	5.73749	0.12313	0.01919	1.00627
4.03714	-14.78386	2.39715	-0.22088	-1.09950	0.90826	-0.00272	5.66114	0.12600	0.01870	1.01744
4.13223	-14.90685	2.40582	-0.21608	-1.09664	0.90875	-0.00271	5.57469	0.12923	0.01817	1.02902
4.23012	-15.03020	2.41441	-0.21124	-1.09375	0.90912	-0.00271	5.47612	0.13293	0.01758	1.04066
4.32900	-15.15556	2.42370	-0.20667	-1.09069	0.90940	-0.00270	5.37179	0.13668	0.01703	1.05151
4.43066	-15.27356	2.43149	-0.20209	-1.08798	0.90974	-0.00270	5.26597	0.14080	0.01640	1.06213
4.53515	-15.39831	2.44064	-0.19752	-1.08507	0.90998	-0.00269	5.15127	0.14513	0.01579	1.07213
4.64253	-15.52124	2.44956	-0.19311	-1.08226	0.91029	-0.00268	5.03965	0.14943	0.01518	1.08153
4.75059	-15.63499	2.45698	-0.18867	-1.07997	0.91072	-0.00268	4.93235	0.15395	0.01453	1.09055
4.86145	-15.75901	2.46655	-0.18429	-1.07735	0.91104	-0.00267	4.81912	0.15847	0.01392	1.09885
4.97760	-15.87889	2.47516	-0.17996	-1.07502	0.91155	-0.00267	4.71442	0.16289	0.01331	1.10687
5.09424	-15.98950	2.48234	-0.17554	-1.07326	0.91223	-0.00266	4.61699	0.16742	0.01266	1.11462
5.21376	-16.11320	2.49224	-0.17117	-1.07108	0.91277	-0.00265	4.51363	0.17189	0.01208	1.12172
5.33618	-16.22948	2.50089	-0.16700	-1.06924	0.91350	-0.00265	4.42327	0.17602	0.01152	1.12848
5.46150	-16.33363	2.50730	-0.16267	-1.06815	0.91452	-0.00264	4.34355	0.18023	0.01090	1.13541
5.58971	-16.45267	2.51675	-0.15827	-1.06662	0.91537	-0.00263	4.25593	0.18447	0.01034	1.14201
5.72082	-16.57330	2.52671	-0.15414	-1.06497	0.91621	-0.00262	4.17441	0.18831	0.00985	1.14839
5.85823	-16.67321	2.53246	-0.14990	-1.06441	0.91752	-0.00262	4.11129	0.19209	0.00928	1.15546
5.99520	-16.77994	2.54001	-0.14554	-1.06375	0.91875	-0.00261	4.04439	0.19592	0.00874	1.16246
6.13497	-16.90371	2.55102	-0.14129	-1.06241	0.91971	-0.00260	3.97054	0.19958	0.00828	1.16916
6.28141	-17.01120	2.55871	-0.13730	-1.06168	0.92096	-0.00259	3.91375	0.20284	0.00782	1.17622
6.42674	-17.09873	2.56304	-0.13326	-1.06190	0.92253	-0.00259	3.87061	0.20604	0.00730	1.18361
6.57895	-17.20769	2.57132	-0.12891	-1.06158	0.92392	-0.00258	3.81568	0.20943	0.00682	1.19109
6.73401	-17.33412	2.58314	-0.12471	-1.06050	0.92499	-0.00257	3.75417	0.21260	0.00644	1.19822
6.89180	-17.43098	2.58940	-0.12103	-1.06033	0.92640	-0.00256	3.71506	0.21524	0.00604	1.20560
7.05716	-17.51183	2.59239	-0.11709	-1.06113	0.92822	-0.00255	3.68657	0.21798	0.00557	1.21361
7.22022	-17.61071	2.59940	-0.11303	-1.06132	0.92975	-0.00255	3.64801	0.22075	0.00515	1.22103
7.39098	-17.73645	2.61139	-0.10881	-1.06063	0.93094	-0.00253	3.59758	0.22352	0.00482	1.22800
7.56430	-17.84380	2.61998	-0.10526	-1.06021	0.93218	-0.00252	3.56114	0.22573	0.00452	1.23453
7.73994	-17.90769	2.62035	-0.10200	-1.06139	0.93401	-0.00252	3.54857	0.22773	0.00413	1.24125
7.92393	-17.99136	2.62435	-0.09823	-1.06226	0.93576	-0.00251	3.52649	0.22999	0.00375	1.24757
8.11030	-18.09573	2.63255	-0.09424	-1.06252	0.93724	-0.00250	3.49501	0.23227	0.00342	1.25313
8.29876	-18.22631	2.64601	-0.09025	-1.06176	0.93830	-0.00249	3.45308	0.23441	0.00320	1.25774
8.49618	-18.31778	2.65162	-0.08716	-1.06192	0.93964	-0.00248	3.43275	0.23603	0.00295	1.26241
8.69565	-18.36599	2.64907	-0.08437	-1.06360	0.94154	-0.00248	3.43218	0.23758	0.00260	1.26747
8.90472	-18.44557	2.65240	-0.08090	-1.06466	0.94324	-0.00247	3.41830	0.23936	0.00229	1.27227
9.11577	-18.53912	2.65866	-0.07727	-1.06533	0.94478	-0.00246	3.39888	0.24113	0.00202	1.27678
9.32836	-18.67024	2.67247	-0.07317	-1.06493	0.94589	-0.00244	3.36500	0.24293	0.00183	1.28078
9.54198	-18.78409	2.68310	-0.07002	-1.06443	0.94685	-0.00243	3.34051	0.24417	0.00169	1.28474
9.76563	-18.82097	2.67850	-0.06807	-1.06606	0.94849	-0.00243	3.34591	0.24526	0.00142	1.29008
10.00000	-18.86884	2.67583	-0.06552	-1.06778	0.95027	-0.00243	3.34823	0.24650	0.00113	1.29619

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
High stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 152 - 305 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.79054	3.40401	-0.04478	-1.69104	1.01734	-0.00101	1.09147	0.45953	-0.01849	0.34076
PGV	2.57933	2.01070	-0.14776	-2.56229	1.30425	-0.00142	5.71110	0.38293	-0.01091	0.40206
PGA	6.31641	1.76672	-0.06959	-3.68397	1.32819	-0.00085	10.76960	0.39962	-0.03230	0.74834
0.01000	7.19843	1.77992	-0.07026	-3.84922	1.34116	-0.00068	12.19289	0.38743	-0.01860	0.73942
0.01024	7.14637	1.78320	-0.06920	-3.84094	1.33249	-0.00068	12.08749	0.38954	-0.01861	0.73960
0.01048	7.09706	1.78643	-0.06814	-3.83314	1.32397	-0.00068	11.98554	0.39161	-0.01862	0.73980
0.01072	7.05102	1.78961	-0.06708	-3.82594	1.31561	-0.00068	11.88795	0.39362	-0.01865	0.74003
0.01097	7.00882	1.79277	-0.06602	-3.81943	1.30739	-0.00068	11.79565	0.39558	-0.01869	0.74028
0.01123	6.97082	1.79591	-0.06496	-3.81368	1.29932	-0.00068	11.70935	0.39748	-0.01874	0.74057
0.01150	6.93700	1.79902	-0.06390	-3.80867	1.29136	-0.00067	11.62912	0.39932	-0.01880	0.74090
0.01177	6.90751	1.80212	-0.06283	-3.80444	1.28352	-0.00067	11.55523	0.40109	-0.01888	0.74127
0.01205	6.88244	1.80521	-0.06176	-3.80099	1.27580	-0.00067	11.48767	0.40279	-0.01897	0.74169
0.01233	6.86152	1.80831	-0.06069	-3.79831	1.26821	-0.00066	11.42572	0.40444	-0.01907	0.74213
0.01262	6.84426	1.81141	-0.05960	-3.79630	1.26077	-0.00066	11.36861	0.40603	-0.01917	0.74256
0.01292	6.82891	1.81451	-0.05851	-3.79462	1.25345	-0.00065	11.31378	0.40760	-0.01928	0.74295
0.01322	6.81565	1.81761	-0.05740	-3.79333	1.24618	-0.00064	11.26124	0.40915	-0.01938	0.74336
0.01353	6.80779	1.82074	-0.05628	-3.79302	1.23901	-0.00064	11.21579	0.41063	-0.01951	0.74388
0.01385	6.80666	1.82392	-0.05513	-3.79395	1.23199	-0.00063	11.17985	0.41201	-0.01966	0.74451
0.01417	6.81248	1.82712	-0.05399	-3.79611	1.22514	-0.00062	11.15399	0.41329	-0.01981	0.74523
0.01451	6.82587	1.83037	-0.05283	-3.79965	1.21846	-0.00061	11.13894	0.41446	-0.01998	0.74602
0.01485	6.84851	1.83368	-0.05166	-3.80486	1.21188	-0.00059	11.13706	0.41550	-0.02015	0.74690
0.01520	6.87983	1.83704	-0.05050	-3.81161	1.20536	-0.00058	11.14787	0.41641	-0.02033	0.74786
0.01556	6.91749	1.84042	-0.04932	-3.81947	1.19884	-0.00056	11.16756	0.41724	-0.02052	0.74892
0.01592	6.95809	1.84385	-0.04810	-3.82783	1.19223	-0.00054	11.18989	0.41806	-0.02072	0.75010
0.01630	6.99973	1.84731	-0.04683	-3.83637	1.18550	-0.00052	11.21168	0.41889	-0.02091	0.75132
0.01668	7.04381	1.85081	-0.04555	-3.84535	1.17874	-0.00051	11.23537	0.41971	-0.02109	0.75257
0.01707	7.08670	1.85431	-0.04426	-3.85411	1.17195	-0.00049	11.25569	0.42056	-0.02129	0.75394
0.01748	7.12166	1.85777	-0.04296	-3.86140	1.16497	-0.00047	11.26264	0.42156	-0.02152	0.75554
0.01789	7.15145	1.86122	-0.04161	-3.86773	1.15782	-0.00046	11.26030	0.42265	-0.02176	0.75730
0.01831	7.19016	1.86473	-0.04023	-3.87563	1.15081	-0.00044	11.27068	0.42363	-0.02202	0.75912
0.01874	7.24732	1.86834	-0.03885	-3.88678	1.14414	-0.00042	11.30911	0.42432	-0.02229	0.76103
0.01918	7.31847	1.87205	-0.03746	-3.90036	1.13754	-0.00040	11.36802	0.42483	-0.02257	0.76308
0.01963	7.39656	1.87583	-0.03605	-3.91512	1.13074	-0.00038	11.43560	0.42528	-0.02288	0.76521
0.02009	7.47926	1.87968	-0.03461	-3.93066	1.12368	-0.00035	11.50805	0.42570	-0.02318	0.76736
0.02057	7.56403	1.88355	-0.03314	-3.94649	1.11647	-0.00033	11.58212	0.42613	-0.02348	0.76944
0.02105	7.64163	1.88741	-0.03164	-3.96103	1.10928	-0.00030	11.64419	0.42668	-0.02376	0.77146
0.02154	7.71138	1.89131	-0.03007	-3.97421	1.10215	-0.00028	11.69219	0.42737	-0.02405	0.77348
0.02205	7.78441	1.89528	-0.02847	-3.98791	1.09484	-0.00026	11.74328	0.42806	-0.02434	0.77551
0.02257	7.86959	1.89929	-0.02690	-4.00359	1.08720	-0.00024	11.81190	0.42861	-0.02463	0.77755
0.02310	7.96537	1.90338	-0.02536	-4.02104	1.07947	-0.00021	11.89525	0.42905	-0.02491	0.77954
0.02364	8.06941	1.90758	-0.02382	-4.03995	1.07201	-0.00019	11.98999	0.42938	-0.02523	0.78173
0.02420	8.17527	1.91184	-0.02222	-4.05917	1.06497	-0.00016	12.08688	0.42970	-0.02562	0.78449
0.02477	8.27067	1.91614	-0.02055	-4.07654	1.05825	-0.00014	12.16684	0.43018	-0.02609	0.78774
0.02535	8.35756	1.92046	-0.01879	-4.09236	1.05156	-0.00012	12.23261	0.43080	-0.02658	0.79121
0.02595	8.44742	1.92474	-0.01701	-4.10852	1.04463	-0.00011	12.30304	0.43139	-0.02707	0.79461
0.02656	8.53789	1.92897	-0.01524	-4.12459	1.03719	-0.00009	12.37378	0.43201	-0.02752	0.79778
0.02719	8.62622	1.93332	-0.01350	-4.14023	1.02933	-0.00007	12.43766	0.43274	-0.02794	0.80083
0.02783	8.72435	1.93794	-0.01175	-4.15766	1.02151	-0.00005	12.51209	0.43341	-0.02838	0.80410
0.02848	8.84377	1.94280	-0.00997	-4.17886	1.01390	-0.00003	12.61654	0.43384	-0.02891	0.80799
0.02915	8.96257	1.94772	-0.00814	-4.19990	1.00608	-0.00000	12.71896	0.43431	-0.02948	0.81228
0.02984	9.04851	1.95249	-0.00627	-4.21505	0.99795	0.00001	12.77151	0.43524	-0.03000	0.81624
0.03054	9.09259	1.95708	-0.00432	-4.22267	0.98970	0.00002	12.76191	0.43672	-0.03041	0.81959
0.03126	9.10611	1.96155	-0.00229	-4.22473	0.98120	0.00001	12.70624	0.43864	-0.03077	0.82266
0.03199	9.09923	1.96593	-0.00018	-4.22304	0.97246	0.00001	12.62017	0.44087	-0.03115	0.82603
0.03275	9.03946	1.97020	0.00207	-4.21210	0.96303	-0.00001	12.45329	0.44388	-0.03156	0.82970
0.03352	8.90859	1.97417	0.00447	-4.18878	0.95280	-0.00004	12.18083	0.44791	-0.03193	0.83311
0.03430	8.74844	1.97780	0.00688	-4.16025	0.94306	-0.00008	11.87441	0.45228	-0.03224	0.83627
0.03511	8.59044	1.98135	0.00923	-4.13211	0.93448	-0.00012	11.58142	0.45653	-0.03250	0.83910
0.03594	8.45027	1.98505	0.01153	-4.10717	0.92698	-0.00016	11.32072	0.46050	-0.03274	0.84176
0.03678	8.33149	1.98894	0.01378	-4.08593	0.91999	-0.00020	11.09601	0.46416	-0.03297	0.84437
0.03765	8.22484	1.99308	0.01600	-4.06663	0.91224	-0.00023	10.89096	0.46775	-0.03319	0.84694
0.03854	8.11941	1.99764	0.01824	-4.04758	0.90323	-0.00026	10.68582	0.47152	-0.03338	0.84939
0.03944	7.99379	2.00262	0.02052	-4.02527	0.89275	-0.00030	10.44787	0.47584	-0.03348	0.85124
0.04037	7.84170	2.00790	0.02291	-3.99859	0.88090	-0.00033	10.16975	0.48080	-0.03351	0.85266
0.04132	7.67599	2.01305	0.02536	-3.96950	0.86933	-0.00037	9.87854	0.48601	-0.03361	0.85453
0.04229	7.49979	2.01763	0.02781	-3.93829	0.85968	-0.00041	9.58816	0.49117	-0.03381	0.85697
0.04329	7.30955	2.02164	0.03018	-3.90431	0.85168	-0.00046	9.29528	0.49632	-0.03405	0.85962
0.04431	7.10699	2.02508	0.03243	-3.86780	0.84304	-0.00052	8.99602	0.50165	-0.03437	0.86277
0.04535	6.87720	2.02802	0.03483	-3.82616	0.83283	-0.00057	8.66755	0.50755	-0.03480	0.86660

0.04642	6.60254	2.03076	0.03760	-3.77661	0.82207	-0.00063	8.28935	0.51441	-0.03529	0.87084
0.04751	6.29121	2.03330	0.04072	-3.72071	0.81193	-0.00070	7.87678	0.52202	-0.03576	0.87485
0.04863	5.94949	2.03549	0.04407	-3.65951	0.80222	-0.00078	7.44051	0.53033	-0.03611	0.87790
0.04977	5.58601	2.03780	0.04763	-3.59474	0.79263	-0.00087	6.99054	0.53934	-0.03632	0.87995
0.05094	5.24710	2.04048	0.05118	-3.53433	0.78388	-0.00095	6.58299	0.54812	-0.03649	0.88169
0.05214	5.02146	2.04356	0.05401	-3.49326	0.77743	-0.00101	6.31804	0.55455	-0.03657	0.88263
0.05337	4.94649	2.04724	0.05575	-3.47824	0.77423	-0.00105	6.22710	0.55761	-0.03639	0.88188
0.05462	4.95949	2.05119	0.05685	-3.47865	0.77318	-0.00108	6.23081	0.55870	-0.03610	0.88031
0.05591	4.95607	2.05476	0.05803	-3.47614	0.77179	-0.00110	6.21386	0.56016	-0.03593	0.87963
0.05722	4.87615	2.05763	0.05953	-3.46005	0.76838	-0.00114	6.11526	0.56328	-0.03596	0.88032
0.05857	4.70238	2.05995	0.06138	-3.42773	0.76285	-0.00119	5.92036	0.56844	-0.03606	0.88159
0.05995	4.47057	2.06173	0.06325	-3.38562	0.75675	-0.00125	5.67010	0.57484	-0.03622	0.88349
0.06136	4.24735	2.06267	0.06461	-3.34484	0.75118	-0.00130	5.43381	0.58100	-0.03657	0.88681
0.06280	4.04339	2.06278	0.06555	-3.30708	0.74565	-0.00134	5.21725	0.58682	-0.03692	0.89036
0.06428	3.86403	2.06277	0.06622	-3.27356	0.73922	-0.00138	5.02255	0.59235	-0.03694	0.89192
0.06579	3.73218	2.06264	0.06643	-3.24786	0.73254	-0.00140	4.87428	0.59689	-0.03662	0.89132
0.06734	3.63860	2.06187	0.06619	-3.22781	0.72632	-0.00142	4.76583	0.60046	-0.03616	0.88988
0.06893	3.55106	2.06068	0.06584	-3.20798	0.72038	-0.00144	4.66806	0.60380	-0.03586	0.88952
0.07055	3.46310	2.05875	0.06549	-3.18732	0.71685	-0.00146	4.57876	0.60680	-0.03597	0.89173
0.07221	3.35732	2.05551	0.06519	-3.16308	0.71552	-0.00150	4.47863	0.60985	-0.03644	0.89603
0.07391	3.21185	2.05078	0.06515	-3.13156	0.71463	-0.00154	4.34544	0.61365	-0.03699	0.90056
0.07565	3.05571	2.04525	0.06531	-3.09785	0.71619	-0.00159	4.21051	0.61737	-0.03739	0.90390
0.07743	2.92862	2.04026	0.06528	-3.06922	0.71956	-0.00163	4.10614	0.62028	-0.03749	0.90517
0.07925	2.79584	2.03533	0.06507	-3.03920	0.72077	-0.00168	3.99443	0.62371	-0.03741	0.90517
0.08111	2.63158	2.03013	0.06488	-3.00320	0.71931	-0.00173	3.85473	0.62831	-0.03723	0.90457
0.08302	2.46528	2.02577	0.06463	-2.96746	0.71746	-0.00177	3.71622	0.63315	-0.03691	0.90315
0.08498	2.30822	2.02194	0.06422	-2.93415	0.71736	-0.00182	3.58756	0.63772	-0.03659	0.90193
0.08697	2.16530	2.01753	0.06339	-2.90351	0.71847	-0.00186	3.46900	0.64188	-0.03631	0.90140
0.08902	2.02494	2.01182	0.06212	-2.87274	0.71875	-0.00189	3.34933	0.64609	-0.03600	0.90101
0.09112	1.84991	2.00558	0.06084	-2.83572	0.71674	-0.00192	3.20038	0.65166	-0.03562	0.90049
0.09326	1.64397	1.99942	0.05963	-2.79359	0.71448	-0.00196	3.03115	0.65834	-0.03510	0.89916
0.09545	1.46372	1.99300	0.05813	-2.75591	0.71587	-0.00200	2.89180	0.66382	-0.03442	0.89685
0.09770	1.34572	1.98689	0.05612	-2.72921	0.72096	-0.00204	2.80899	0.66676	-0.03368	0.89431
0.10000	1.25950	1.98126	0.05371	-2.70828	0.72569	-0.00207	2.75184	0.66865	-0.03309	0.89287
0.10235	1.16797	1.97543	0.05114	-2.68612	0.72786	-0.00210	2.68719	0.67109	-0.03282	0.89385
0.10476	1.06562	1.96963	0.04870	-2.66188	0.72919	-0.00212	2.61313	0.67417	-0.03291	0.89744
0.10723	0.93509	1.96402	0.04690	-2.63290	0.73197	-0.00216	2.52103	0.67825	-0.03312	0.90195
0.10975	0.76499	1.95752	0.04574	-2.59652	0.73487	-0.00221	2.40368	0.68373	-0.03317	0.90524
0.11233	0.59075	1.94968	0.04450	-2.55824	0.73519	-0.00225	2.28543	0.68951	-0.03285	0.90594
0.11498	0.46310	1.94092	0.04225	-2.52699	0.73383	-0.00228	2.19930	0.69372	-0.03226	0.90462
0.11768	0.37075	1.93206	0.03920	-2.50162	0.73233	-0.00229	2.13674	0.69668	-0.03166	0.90292
0.12045	0.30644	1.92158	0.03532	-2.48014	0.73220	-0.00230	2.09108	0.69839	-0.03117	0.90176
0.12328	0.23411	1.91029	0.03134	-2.45694	0.73382	-0.00232	2.04181	0.70015	-0.03081	0.90129
0.12619	0.16307	1.89970	0.02745	-2.43469	0.73784	-0.00234	1.99611	0.70166	-0.03061	0.90166
0.12916	0.08729	1.89066	0.02384	-2.41284	0.74245	-0.00236	1.95004	0.70338	-0.03044	0.90204
0.13219	0.02648	1.87988	0.01957	-2.39230	0.74560	-0.00238	1.91167	0.70445	-0.03013	0.90113
0.13531	-0.04472	1.86695	0.01496	-2.36804	0.74534	-0.00239	1.86632	0.70596	-0.02951	0.89783
0.13849	-0.11108	1.85364	0.01014	-2.34426	0.74463	-0.00239	1.82587	0.70715	-0.02846	0.89130
0.14175	-0.15470	1.84331	0.00524	-2.32707	0.74637	-0.00240	1.80349	0.70728	-0.02697	0.88166
0.14508	-0.17021	1.83758	0.00021	-2.31877	0.74955	-0.00240	1.80158	0.70637	-0.02526	0.87037
0.14850	-0.14511	1.83334	-0.00566	-2.31910	0.75247	-0.00238	1.82290	0.70392	-0.02365	0.85974
0.15199	-0.13322	1.82947	-0.01172	-2.31771	0.75310	-0.00237	1.83218	0.70242	-0.02233	0.85104
0.15557	-0.16869	1.82549	-0.01733	-2.30869	0.75234	-0.00235	1.80673	0.70331	-0.02115	0.84331
0.15923	-0.24632	1.81987	-0.02255	-2.29175	0.75270	-0.00234	1.75179	0.70599	-0.02002	0.83617
0.16298	-0.37157	1.81328	-0.02708	-2.26562	0.75514	-0.00236	1.67143	0.71048	-0.01899	0.82987
0.16681	-0.50485	1.80604	-0.03141	-2.23696	0.76130	-0.00239	1.59411	0.71479	-0.01793	0.82354
0.17074	-0.63089	1.79813	-0.03575	-2.20817	0.76901	-0.00243	1.52736	0.71844	-0.01689	0.81743
0.17475	-0.71687	1.78883	-0.04098	-2.18489	0.77491	-0.00246	1.48391	0.72023	-0.01603	0.81274
0.17887	-0.78569	1.78066	-0.04669	-2.16563	0.77723	-0.00247	1.44947	0.72155	-0.01524	0.80893
0.18307	-0.85017	1.77436	-0.05260	-2.14952	0.77841	-0.00247	1.41610	0.72296	-0.01435	0.80478
0.18738	-0.94330	1.76852	-0.05821	-2.12966	0.77882	-0.00247	1.36516	0.72597	-0.01334	0.80000
0.19179	-1.09432	1.76030	-0.06311	-2.09777	0.77673	-0.00248	1.28259	0.73199	-0.01246	0.79611
0.19631	-1.28950	1.74791	-0.06740	-2.05366	0.77186	-0.00250	1.18037	0.74031	-0.01205	0.79498
0.20092	-1.48468	1.73288	-0.07152	-2.00584	0.76568	-0.00254	1.08472	0.74870	-0.01201	0.79596
0.20565	-1.63677	1.71801	-0.07605	-1.96445	0.75892	-0.00256	1.01577	0.75492	-0.01191	0.79634
0.21049	-1.73463	1.70482	-0.08130	-1.93329	0.75032	-0.00256	0.97513	0.75843	-0.01144	0.79424
0.21544	-1.79297	1.69391	-0.08718	-1.91092	0.73953	-0.00255	0.95333	0.76005	-0.01049	0.78921
0.22051	-1.83329	1.68557	-0.09342	-1.89438	0.72861	-0.00252	0.94021	0.76082	-0.00911	0.78168
0.22570	-1.87173	1.67913	-0.09987	-1.88047	0.72000	-0.00249	0.92845	0.76142	-0.00753	0.77299
0.23101	-1.91520	1.67345	-0.10649	-1.86712	0.71465	-0.00247	0.91483	0.76205	-0.00596	0.76431
0.23645	-1.96316	1.66756	-0.11323	-1.85348	0.71223	-0.00246	0.90017	0.76246	-0.00447	0.75574
0.24201	-2.01775	1.66067	-0.11986	-1.83796	0.71189	-0.00245	0.88434	0.76272	-0.00322	0.74845
0.24771	-2.07378	1.65246	-0.12642	-1.82071	0.71388	-0.00246	0.87022	0.76244	-0.00249	0.74439
0.25354	-2.11904	1.64418	-0.13299	-1.80503	0.71864	-0.00248	0.86320	0.76102	-0.00226	0.74388
0.25950	-2.15134	1.63811	-0.13948	-1.79379	0.72486	-0.00249	0.86298	0.75884	-0.00224	0.74534
0.26561	-2.17897	1.63564	-0.14570	-1.78715	0.73072	-0.00249	0.86410	0.75695	-0.00212	0.74674
0.27186	-2.20207	1.63670	-0.15162	-1.78502	0.73607	-0.00249	0.86682	0.75528	-0.00174	0.74688
0.27826	-2.21738	1.64037	-0.15719	-1.78701	0.74125	-0.00248	0.87389	0.75330	-0.00119	0.74607
0.28480	-2.22415	1.64499	-0.16257	-1.79164	0.74602	-0.00247	0.88549	0.75076	-0.00070	0.74564
0.29150	-2.22743	1.64892	-0.16810	-1.79657	0.74974	-0.00244	0.89799	0.74798	-0.00031	0.74592
0.29836	-2.23645	1.65089	-0.17410	-1.79901	0.75142	-0.00241	0.90636	0.74549	0.00017	0.74555

0.30539	-2.26274	1.65005	-0.18066	-1.79591	0.75042	-0.00238	0.90549	0.74387	0.00087	0.74356
0.31257	-2.30479	1.64685	-0.18755	-1.78771	0.74869	-0.00235	0.89842	0.74267	0.00166	0.74061
0.31993	-2.35724	1.64285	-0.19439	-1.77685	0.74858	-0.00233	0.88965	0.74138	0.00238	0.73771
0.32745	-2.42677	1.63931	-0.20065	-1.76352	0.74903	-0.00232	0.87497	0.74086	0.00296	0.73528
0.33517	-2.52403	1.63685	-0.20598	-1.74657	0.74716	-0.00231	0.84722	0.74245	0.00346	0.73296
0.34304	-2.63866	1.63512	-0.21066	-1.72736	0.74224	-0.00230	0.81147	0.74557	0.00386	0.73091
0.35112	-2.76276	1.63399	-0.21493	-1.70663	0.73532	-0.00229	0.77356	0.74948	0.00409	0.72975
0.35938	-2.88045	1.63416	-0.21910	-1.68755	0.72868	-0.00228	0.74260	0.75280	0.00420	0.72921
0.36784	-2.97786	1.63670	-0.22364	-1.67384	0.72426	-0.00228	0.72490	0.75435	0.00449	0.72767
0.37649	-3.05609	1.64167	-0.22878	-1.66571	0.72257	-0.00228	0.71797	0.75435	0.00514	0.72394
0.38536	-3.12236	1.64712	-0.23469	-1.66048	0.72232	-0.00227	0.71579	0.75345	0.00605	0.71871
0.39442	-3.19503	1.65104	-0.24121	-1.65309	0.71997	-0.00226	0.70817	0.75322	0.00698	0.71329
0.40370	-3.28385	1.65274	-0.24819	-1.64127	0.71339	-0.00223	0.69048	0.75439	0.00782	0.70846
0.41321	-3.38606	1.65270	-0.25542	-1.62611	0.70327	-0.00220	0.66525	0.75660	0.00852	0.70457
0.42292	-3.49722	1.65177	-0.26258	-1.60922	0.69130	-0.00216	0.63637	0.75927	0.00905	0.70195
0.43288	-3.61696	1.65058	-0.26935	-1.59111	0.67894	-0.00212	0.60566	0.76217	0.00940	0.70081
0.44307	-3.73644	1.64902	-0.27577	-1.57313	0.66780	-0.00208	0.57705	0.76454	0.00962	0.70106
0.45349	-3.85174	1.64697	-0.28191	-1.55557	0.65887	-0.00205	0.55187	0.76611	0.00972	0.70266
0.46417	-3.96202	1.64473	-0.28774	-1.53858	0.65240	-0.00202	0.53012	0.76697	0.00970	0.70563
0.47508	-4.06474	1.64314	-0.29321	-1.52324	0.64845	-0.00201	0.51270	0.76707	0.00955	0.70977
0.48626	-4.15504	1.64305	-0.29839	-1.51123	0.64715	-0.00199	0.50149	0.76607	0.00932	0.71482
0.49771	-4.23149	1.64473	-0.30346	-1.50317	0.64834	-0.00198	0.49670	0.76390	0.00904	0.72034
0.50942	-4.29859	1.64798	-0.30853	-1.49806	0.65187	-0.00198	0.49661	0.76085	0.00877	0.72596
0.52140	-4.36549	1.65223	-0.31357	-1.49358	0.65792	-0.00198	0.49816	0.75752	0.00848	0.73163
0.53367	-4.43818	1.65683	-0.31854	-1.48792	0.66671	-0.00201	0.49975	0.75416	0.00818	0.73730
0.54624	-4.51592	1.66126	-0.32350	-1.48068	0.67812	-0.00205	0.50179	0.75060	0.00792	0.74268
0.55910	-4.59845	1.66535	-0.32849	-1.47179	0.69128	-0.00211	0.50437	0.74681	0.00778	0.74726
0.57225	-4.68784	1.66934	-0.33345	-1.46116	0.70516	-0.00217	0.50652	0.74307	0.00790	0.75008
0.58569	-4.78559	1.67344	-0.33825	-1.44882	0.71895	-0.00223	0.50712	0.73971	0.00836	0.75053
0.59948	-4.88720	1.67757	-0.34291	-1.43572	0.73207	-0.00230	0.50718	0.73648	0.00903	0.74939
0.61357	-4.98685	1.68138	-0.34744	-1.42273	0.74308	-0.00236	0.50783	0.73312	0.00968	0.74813
0.62802	-5.07954	1.68454	-0.35199	-1.41057	0.75044	-0.00241	0.51059	0.72920	0.01015	0.74793
0.64280	-5.16248	1.68696	-0.35665	-1.39981	0.75344	-0.00243	0.51638	0.72443	0.01041	0.74910
0.65794	-5.23891	1.68891	-0.36135	-1.39029	0.75247	-0.00243	0.52415	0.71903	0.01056	0.75111
0.67340	-5.31022	1.69086	-0.36605	-1.38240	0.74884	-0.00242	0.53374	0.71306	0.01072	0.75310
0.68927	-5.37441	1.69330	-0.37084	-1.37715	0.74390	-0.00240	0.54726	0.70607	0.01097	0.75453
0.70547	-5.42848	1.69673	-0.37580	-1.37560	0.73869	-0.00236	0.56705	0.69773	0.01132	0.75530
0.72207	-5.47416	1.70195	-0.38088	-1.37826	0.73415	-0.00232	0.59426	0.68800	0.01176	0.75536
0.73910	-5.52174	1.70975	-0.38582	-1.38392	0.73073	-0.00227	0.62507	0.67800	0.01236	0.75400
0.75649	-5.58697	1.72013	-0.39034	-1.38943	0.72775	-0.00223	0.65051	0.66958	0.01318	0.75053
0.77429	-5.68793	1.73195	-0.39429	-1.38998	0.72274	-0.00220	0.65833	0.66474	0.01411	0.74523
0.79246	-5.83159	1.74371	-0.39770	-1.38246	0.71379	-0.00218	0.64213	0.66437	0.01495	0.73933
0.81116	-6.00912	1.75491	-0.40076	-1.36805	0.70168	-0.00216	0.60758	0.66750	0.01553	0.73432
0.83022	-6.20237	1.76563	-0.40360	-1.35016	0.68926	-0.00215	0.56584	0.67234	0.01573	0.73132
0.84976	-6.40113	1.77651	-0.40626	-1.33137	0.67890	-0.00215	0.52482	0.67748	0.01562	0.73028
0.86972	-6.59736	1.78813	-0.40880	-1.31376	0.67238	-0.00215	0.48970	0.68176	0.01543	0.72988
0.89023	-6.78942	1.80075	-0.41125	-1.29799	0.67022	-0.00218	0.46176	0.68464	0.01542	0.72874
0.91116	-6.97415	1.81381	-0.41361	-1.28401	0.67162	-0.00221	0.44114	0.68581	0.01561	0.72685
0.93257	-7.15414	1.82649	-0.41587	-1.27046	0.67437	-0.00225	0.42530	0.68565	0.01590	0.72475
0.95456	-7.33102	1.83819	-0.41803	-1.25638	0.67636	-0.00228	0.41239	0.68449	0.01623	0.72275
0.97704	-7.50405	1.84861	-0.42010	-1.24149	0.67643	-0.00232	0.40162	0.68251	0.01656	0.72103
1.00000	-7.67052	1.85788	-0.42207	-1.22636	0.67491	-0.00234	0.39370	0.67951	0.01682	0.72036
1.02354	-7.82861	1.86629	-0.42388	-1.21160	0.67267	-0.00236	0.38929	0.67531	0.01685	0.72175
1.04767	-7.97479	1.87419	-0.42555	-1.19821	0.67102	-0.00237	0.38976	0.66959	0.01663	0.72551
1.07227	-8.10530	1.88183	-0.42711	-1.18717	0.67115	-0.00238	0.39646	0.66212	0.01619	0.73135
1.09745	-8.21924	1.88937	-0.42857	-1.17887	0.67382	-0.00239	0.41020	0.65288	0.01554	0.73916
1.12334	-8.31726	1.89683	-0.42993	-1.17324	0.67934	-0.00239	0.43119	0.64208	0.01468	0.74897
1.14982	-8.39977	1.90413	-0.43121	-1.17010	0.68768	-0.00240	0.45936	0.63013	0.01363	0.76041
1.17675	-8.46833	1.91132	-0.43242	-1.16913	0.69866	-0.00241	0.49424	0.61752	0.01250	0.77269
1.20453	-8.52703	1.91865	-0.43357	-1.16985	0.71197	-0.00243	0.53532	0.60466	0.01136	0.78515
1.23289	-8.57994	1.92622	-0.43464	-1.17145	0.72655	-0.00245	0.57952	0.59248	0.01031	0.79687
1.26183	-8.63174	1.93418	-0.43560	-1.17319	0.74131	-0.00246	0.62344	0.58167	0.00943	0.80723
1.29149	-8.68697	1.94264	-0.43645	-1.17436	0.75529	-0.00248	0.66366	0.57267	0.00877	0.81587
1.32188	-8.74903	1.95164	-0.43718	-1.17441	0.76771	-0.00250	0.69679	0.56579	0.00837	0.82251
1.35300	-8.81987	1.96115	-0.43780	-1.17303	0.77810	-0.00252	0.72053	0.56113	0.00824	0.82712
1.38485	-8.90093	1.97106	-0.43833	-1.16995	0.78635	-0.00253	0.73316	0.55871	0.00835	0.82997
1.41743	-8.99285	1.98126	-0.43879	-1.16497	0.79249	-0.00255	0.73394	0.55847	0.00863	0.83172
1.45075	-9.09496	1.99165	-0.43921	-1.15826	0.79685	-0.00257	0.72369	0.56018	0.00901	0.83296
1.48500	-9.20866	2.00228	-0.43959	-1.14971	0.79936	-0.00258	0.70240	0.56386	0.00944	0.83405
1.51999	-9.33304	2.01307	-0.43997	-1.13949	0.79969	-0.00260	0.67165	0.56933	0.00990	0.83510
1.55569	-9.46854	2.02398	-0.44038	-1.12759	0.79720	-0.00262	0.63288	0.57643	0.01041	0.83615
1.59236	-9.61670	2.03509	-0.44081	-1.11389	0.79133	-0.00262	0.58744	0.58512	0.01098	0.83721
1.62973	-9.77613	2.04638	-0.44125	-1.09870	0.78185	-0.00263	0.53804	0.59510	0.01161	0.83831
1.66806	-9.94689	2.05798	-0.44167	-1.08229	0.76875	-0.00262	0.48698	0.60613	0.01228	0.83962
1.70736	-10.12749	2.07002	-0.44201	-1.06517	0.75267	-0.00261	0.43681	0.61781	0.01295	0.84155
1.74764	-10.31592	2.08263	-0.44216	-1.04802	0.73496	-0.00260	0.38967	0.62966	0.01354	0.84448
1.78859	-10.50727	2.09582	-0.44203	-1.03192	0.71741	-0.00258	0.34802	0.64086	0.01398	0.84873
1.83083	-10.70019	2.10975	-0.44159	-1.01753	0.70106	-0.00257	0.31312	0.65059	0.01425	0.85466
1.87371	-10.88906	2.12402	-0.44087	-1.00538	0.68681	-0.00256	0.28591	0.65791	0.01431	0.86226
1.91791	-11.07434	2.13863	-0.43988	-0.99551	0.67484	-0.00255	0.26604	0.66221	0.01420	0.87142
1.96309	-11.25375	2.15321	-0.43866	-0.98786	0.66510	-0.00254	0.25303	0.66310	0.01399	0.88150

2.00924	-11.42830	2.16753	-0.43723	-0.98186	0.65701	-0.00253	0.24558	0.66077	0.01378	0.89168
2.05634	-11.59923	2.18139	-0.43554	-0.97696	0.65027	-0.00252	0.24272	0.65543	0.01365	0.90124
2.10482	-11.76811	2.19475	-0.43355	-0.97279	0.64479	-0.00251	0.24441	0.64693	0.01365	0.90980
2.15424	-11.93244	2.20743	-0.43120	-0.96944	0.64092	-0.00251	0.25136	0.63509	0.01379	0.91697
2.20507	-12.09074	2.21950	-0.42845	-0.96735	0.63928	-0.00250	0.26570	0.61911	0.01407	0.92269
2.25683	-12.23678	2.23085	-0.42531	-0.96752	0.64089	-0.00249	0.29125	0.59809	0.01449	0.92683
2.31000	-12.36953	2.24165	-0.42175	-0.97047	0.64628	-0.00249	0.33251	0.57160	0.01507	0.92924
2.36463	-12.48727	2.25202	-0.41773	-0.97662	0.65593	-0.00249	0.39564	0.53980	0.01584	0.92970
2.42014	-12.59059	2.26195	-0.41319	-0.98559	0.66943	-0.00250	0.48532	0.50444	0.01679	0.92830
2.47709	-12.68340	2.27161	-0.40801	-0.99682	0.68592	-0.00250	0.60765	0.46692	0.01786	0.92552
2.53550	-12.76992	2.28103	-0.40212	-1.00929	0.70396	-0.00251	0.76581	0.42911	0.01895	0.92222
2.59471	-12.85359	2.29016	-0.39559	-1.02181	0.72213	-0.00252	0.95805	0.39293	0.01994	0.91929
2.65604	-12.94020	2.29923	-0.38833	-1.03372	0.73976	-0.00253	1.18591	0.35861	0.02083	0.91713
2.71887	-13.02974	2.30819	-0.38055	-1.04462	0.75619	-0.00253	1.44585	0.32680	0.02155	0.91607
2.78242	-13.12165	2.31693	-0.37245	-1.05425	0.77085	-0.00254	1.73175	0.29784	0.02213	0.91618
2.84819	-13.21873	2.32563	-0.36397	-1.06267	0.78383	-0.00254	2.04425	0.27116	0.02258	0.91747
2.91545	-13.31987	2.33433	-0.35534	-1.06984	0.79512	-0.00254	2.37551	0.24692	0.02291	0.91995
2.98329	-13.42331	2.34275	-0.34672	-1.07569	0.80464	-0.00255	2.71319	0.22537	0.02312	0.92350
3.05344	-13.53174	2.35124	-0.33805	-1.08038	0.81288	-0.00254	3.05829	0.20580	0.02322	0.92808
3.12598	-13.64444	2.35960	-0.32934	-1.08398	0.82000	-0.00254	3.40452	0.18812	0.02321	0.93353
3.19898	-13.75780	2.36774	-0.32095	-1.08652	0.82603	-0.00254	3.73615	0.17264	0.02310	0.93940
3.27439	-13.87431	2.37572	-0.31264	-1.08814	0.83126	-0.00254	4.05730	0.15878	0.02291	0.94548
3.35121	-13.99142	2.38349	-0.30464	-1.08900	0.83586	-0.00253	4.35868	0.14661	0.02266	0.95149
3.43053	-14.11038	2.39109	-0.29677	-1.08920	0.83996	-0.00253	4.64124	0.13589	0.02233	0.95765
3.51124	-14.22914	2.39856	-0.28926	-1.08888	0.84362	-0.00253	4.89683	0.12667	0.02197	0.96400
3.59324	-14.34690	2.40569	-0.28200	-1.08812	0.84679	-0.00253	5.12209	0.11898	0.02155	0.97084
3.67782	-14.46599	2.41303	-0.27501	-1.08707	0.84979	-0.00252	5.32197	0.11244	0.02111	0.97849
3.76506	-14.58404	2.41989	-0.26818	-1.08577	0.85240	-0.00252	5.48820	0.10736	0.02060	0.98744
3.85356	-14.70260	2.42722	-0.26168	-1.08434	0.85495	-0.00252	5.62750	0.10325	0.02009	0.99724
3.94477	-14.81823	2.43379	-0.25540	-1.08279	0.85713	-0.00252	5.72965	0.10060	0.01952	1.00807
4.03714	-14.93492	2.44099	-0.24936	-1.08121	0.85928	-0.00251	5.80706	0.09874	0.01896	1.01918
4.13223	-15.04928	2.44775	-0.24360	-1.07961	0.86118	-0.00251	5.85305	0.09800	0.01839	1.03055
4.23012	-15.16342	2.45448	-0.23792	-1.07803	0.86289	-0.00250	5.87030	0.09829	0.01779	1.04187
4.32900	-15.27853	2.46195	-0.23254	-1.07646	0.86465	-0.00250	5.87085	0.09901	0.01726	1.05231
4.43066	-15.38750	2.46811	-0.22741	-1.07500	0.86602	-0.00249	5.83938	0.10098	0.01668	1.06241
4.53515	-15.50174	2.47554	-0.22227	-1.07354	0.86752	-0.00249	5.79388	0.10333	0.01613	1.07182
4.64253	-15.61468	2.48286	-0.21739	-1.07211	0.86894	-0.00248	5.73505	0.10611	0.01560	1.08063
4.75059	-15.71965	2.48883	-0.21275	-1.07088	0.87005	-0.00248	5.65473	0.10984	0.01503	1.08903
4.86145	-15.83339	2.49684	-0.20802	-1.06960	0.87140	-0.00247	5.57196	0.11348	0.01450	1.09676
4.97760	-15.94414	2.50403	-0.20351	-1.06839	0.87265	-0.00246	5.48133	0.11751	0.01396	1.10426
5.09424	-16.04665	2.50990	-0.19918	-1.06745	0.87368	-0.00246	5.37788	0.12226	0.01337	1.11155
5.21376	-16.16072	2.51837	-0.19467	-1.06644	0.87501	-0.00245	5.27706	0.12672	0.01284	1.11828
5.33618	-16.26870	2.52579	-0.19050	-1.06555	0.87629	-0.00244	5.17952	0.13116	0.01231	1.12478
5.46150	-16.36570	2.53107	-0.18651	-1.06506	0.87736	-0.00243	5.07365	0.13633	0.01170	1.13154
5.58971	-16.47603	2.53928	-0.18220	-1.06449	0.87873	-0.00242	4.96974	0.14124	0.01113	1.13808
5.72082	-16.58828	2.54810	-0.17805	-1.06388	0.88023	-0.00241	4.87629	0.14566	0.01062	1.14447
5.85823	-16.68160	2.55291	-0.17431	-1.06385	0.88148	-0.00241	4.78125	0.15073	0.01002	1.15159
5.99520	-16.78084	2.55944	-0.17034	-1.06390	0.88288	-0.00240	4.68641	0.15577	0.00944	1.15872
6.13497	-16.89613	2.56942	-0.16607	-1.06369	0.88455	-0.00239	4.59845	0.16020	0.00893	1.16561
6.28141	-16.99680	2.57629	-0.16233	-1.06377	0.88610	-0.00238	4.52044	0.16451	0.00842	1.17283
6.42674	-17.07837	2.57989	-0.15896	-1.06443	0.88746	-0.00237	4.44493	0.16918	0.00787	1.18036
6.57895	-17.17986	2.58732	-0.15495	-1.06496	0.88911	-0.00236	4.36665	0.17378	0.00734	1.18805
6.73401	-17.29843	2.59833	-0.15064	-1.06511	0.89098	-0.00235	4.29423	0.17774	0.00689	1.19546
6.89180	-17.38951	2.60401	-0.14730	-1.06564	0.89254	-0.00234	4.23584	0.18144	0.00645	1.20300
7.05716	-17.46487	2.60642	-0.14417	-1.06681	0.89400	-0.00233	4.17761	0.18565	0.00594	1.21111
7.22022	-17.55733	2.61280	-0.14052	-1.06775	0.89565	-0.00232	4.11894	0.18958	0.00548	1.21872
7.39098	-17.67592	2.62416	-0.13617	-1.06828	0.89758	-0.00231	4.05933	0.19315	0.00508	1.22600
7.56430	-17.77782	2.63230	-0.13265	-1.06877	0.89925	-0.00230	4.01271	0.19614	0.00473	1.23275
7.73994	-17.83764	2.63227	-0.13029	-1.07007	0.90050	-0.00229	3.97522	0.19940	0.00434	1.23945
7.92393	-17.91619	2.63579	-0.12717	-1.07137	0.90198	-0.00228	3.93211	0.20282	0.00393	1.24585
8.11030	-18.01486	2.64350	-0.12342	-1.07242	0.90367	-0.00227	3.88720	0.20605	0.00356	1.25159
8.29876	-18.13965	2.65656	-0.11901	-1.07294	0.90558	-0.00225	3.84230	0.20878	0.00327	1.25654
8.49618	-18.22731	2.66188	-0.11613	-1.07365	0.90699	-0.00224	3.81135	0.21114	0.00300	1.26131
8.69565	-18.27258	2.65899	-0.11445	-1.07510	0.90794	-0.00224	3.78750	0.21379	0.00267	1.26622
8.90472	-18.34816	2.66194	-0.11162	-1.07640	0.90924	-0.00223	3.75653	0.21654	0.00235	1.27100
9.11577	-18.43750	2.66783	-0.10831	-1.07756	0.91068	-0.00222	3.72463	0.21914	0.00206	1.27558
9.32836	-18.56381	2.68134	-0.10375	-1.07834	0.91253	-0.00220	3.68843	0.22151	0.00181	1.27989
9.54198	-18.67440	2.69182	-0.10021	-1.07875	0.91406	-0.00219	3.66194	0.22323	0.00163	1.28408
9.76563	-18.70960	2.68694	-0.09935	-1.07989	0.91464	-0.00218	3.64895	0.22508	0.00140	1.28916
10.00000	-18.75533	2.68395	-0.09787	-1.08120	0.91535	-0.00218	3.63166	0.22720	0.00115	1.29502

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
High stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 305 - 610 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.63457	3.40422	-0.04779	-1.72198	1.02592	-0.00096	1.25098	0.44556	-0.03203	0.41891
PGV	4.54420	2.11101	-0.12889	-3.04284	1.48233	-0.00104	10.02757	0.32127	-0.01117	0.40435
PGA	10.31611	1.81270	-0.07391	-4.43538	1.43611	-0.00008	18.48019	0.33900	-0.03384	0.75520
0.01000	11.50053	1.82643	-0.07397	-4.65107	1.44258	0.00016	20.73267	0.32853	-0.02029	0.75200
0.01024	11.40031	1.82944	-0.07299	-4.63377	1.43208	0.00015	20.49712	0.33083	-0.02027	0.75205
0.01048	11.30336	1.83239	-0.07202	-4.61707	1.42174	0.00014	20.26698	0.33310	-0.02026	0.75213
0.01072	11.21064	1.83531	-0.07104	-4.60113	1.41156	0.00013	20.04425	0.33534	-0.02027	0.75224
0.01097	11.12349	1.83821	-0.07006	-4.58619	1.40156	0.00013	19.83152	0.33752	-0.02029	0.75239
0.01123	11.04331	1.84111	-0.06908	-4.57251	1.39175	0.00012	19.63136	0.33964	-0.02033	0.75258
0.01150	10.97077	1.84400	-0.06809	-4.56020	1.38212	0.00011	19.44508	0.34168	-0.02038	0.75282
0.01177	10.90538	1.84690	-0.06710	-4.54918	1.37265	0.00011	19.27182	0.34366	-0.02044	0.75312
0.01205	10.84728	1.84980	-0.06610	-4.53945	1.36331	0.00011	19.11174	0.34557	-0.02052	0.75346
0.01233	10.79629	1.85271	-0.06510	-4.53099	1.35408	0.00011	18.96427	0.34742	-0.02061	0.75384
0.01262	10.74979	1.85562	-0.06409	-4.52334	1.34497	0.00011	18.82428	0.34922	-0.02072	0.75425
0.01292	10.70633	1.85853	-0.06307	-4.51623	1.33598	0.00011	18.68924	0.35100	-0.02082	0.75469
0.01322	10.66827	1.86145	-0.06204	-4.51008	1.32711	0.00011	18.56346	0.35273	-0.02095	0.75517
0.01353	10.63656	1.86440	-0.06099	-4.50508	1.31835	0.00012	18.44835	0.35440	-0.02108	0.75573
0.01385	10.61213	1.86738	-0.05993	-4.50137	1.30968	0.00012	18.34553	0.35600	-0.02123	0.75636
0.01417	10.60056	1.87041	-0.05887	-4.49993	1.30110	0.00013	18.26566	0.35748	-0.02138	0.75708
0.01451	10.60071	1.87350	-0.05780	-4.50054	1.29255	0.00014	18.20623	0.35884	-0.02156	0.75794
0.01485	10.60910	1.87663	-0.05670	-4.50260	1.28402	0.00015	18.16030	0.36014	-0.02176	0.75896
0.01520	10.62516	1.87980	-0.05560	-4.50601	1.27554	0.00016	18.12695	0.36136	-0.02197	0.76012
0.01556	10.64734	1.88299	-0.05448	-4.51049	1.26716	0.00018	18.10370	0.36252	-0.02220	0.76143
0.01592	10.67483	1.88619	-0.05335	-4.51588	1.25887	0.00019	18.08934	0.36363	-0.02244	0.76289
0.01630	10.70742	1.88942	-0.05220	-4.52215	1.25067	0.00021	18.08317	0.36469	-0.02270	0.76452
0.01668	10.74216	1.89265	-0.05104	-4.52875	1.24243	0.00023	18.07972	0.36574	-0.02296	0.76624
0.01707	10.77186	1.89589	-0.04982	-4.53447	1.23411	0.00024	18.06452	0.36687	-0.02322	0.76796
0.01748	10.79873	1.89920	-0.04855	-4.53974	1.22577	0.00025	18.04055	0.36806	-0.02348	0.76975
0.01789	10.83824	1.90261	-0.04725	-4.54727	1.21761	0.00027	18.03683	0.36913	-0.02376	0.77173
0.01831	10.89224	1.90612	-0.04594	-4.55738	1.20957	0.00029	18.05677	0.37007	-0.02407	0.77386
0.01874	10.95136	1.90967	-0.04463	-4.56838	1.20143	0.00031	18.08350	0.37098	-0.02437	0.77598
0.01918	11.01361	1.91326	-0.04329	-4.57986	1.19297	0.00033	18.11359	0.37189	-0.02468	0.77811
0.01963	11.08045	1.91691	-0.04192	-4.59204	1.18417	0.00035	18.14943	0.37280	-0.02500	0.78041
0.02009	11.14971	1.92061	-0.04051	-4.60460	1.17531	0.00038	18.18760	0.37371	-0.02536	0.78284
0.02057	11.22433	1.92434	-0.03911	-4.61802	1.16674	0.00040	18.23558	0.37455	-0.02570	0.78525
0.02105	11.31056	1.92812	-0.03770	-4.63339	1.15857	0.00042	18.30560	0.37526	-0.02603	0.78751
0.02154	11.39702	1.93194	-0.03625	-4.64873	1.15055	0.00044	18.37519	0.37598	-0.02638	0.78992
0.02205	11.47067	1.93578	-0.03472	-4.66174	1.14209	0.00046	18.41835	0.37689	-0.02678	0.79267
0.02257	11.53309	1.93967	-0.03311	-4.67271	1.13286	0.00048	18.43639	0.37800	-0.02722	0.79567
0.02310	11.58657	1.94362	-0.03142	-4.68211	1.12319	0.00050	18.43367	0.37927	-0.02768	0.79885
0.02364	11.64792	1.94760	-0.02973	-4.69283	1.11372	0.00051	18.44366	0.38046	-0.02819	0.80239
0.02420	11.71844	1.95163	-0.02810	-4.70506	1.10438	0.00053	18.46979	0.38156	-0.02871	0.80600
0.02477	11.77659	1.95566	-0.02642	-4.71505	1.09482	0.00055	18.47309	0.38281	-0.02916	0.80910
0.02535	11.82903	1.95980	-0.02464	-4.72405	1.08522	0.00056	18.46417	0.38416	-0.02954	0.81183
0.02595	11.87881	1.96407	-0.02281	-4.73262	1.07585	0.00057	18.44776	0.38557	-0.02993	0.81458
0.02656	11.92281	1.96834	-0.02100	-4.74014	1.06704	0.00058	18.42205	0.38701	-0.03034	0.81754
0.02719	11.96452	1.97259	-0.01923	-4.74714	1.05842	0.00058	18.39506	0.38846	-0.03075	0.82055
0.02783	12.01434	1.97694	-0.01746	-4.75543	1.04903	0.00059	18.37951	0.38990	-0.03113	0.82338
0.02848	12.06387	1.98145	-0.01565	-4.76375	1.03913	0.00060	18.35566	0.39142	-0.03147	0.82598
0.02915	12.09516	1.98588	-0.01382	-4.76889	1.02905	0.00061	18.29756	0.39315	-0.03181	0.82873
0.02984	12.07951	1.98992	-0.01195	-4.76562	1.01857	0.00060	18.16258	0.39534	-0.03223	0.83202
0.03054	12.00632	1.99365	-0.00999	-4.75213	1.00789	0.00059	17.93413	0.39812	-0.03268	0.83564
0.03126	11.90633	1.99758	-0.00793	-4.73387	0.99670	0.00056	17.65940	0.40128	-0.03305	0.83887
0.03199	11.81024	2.00214	-0.00572	-4.71643	0.98498	0.00054	17.38372	0.40462	-0.03333	0.84165
0.03275	11.72987	2.00705	-0.00344	-4.70190	0.97409	0.00052	17.13498	0.40783	-0.03358	0.84435
0.03352	11.67215	2.01192	-0.00126	-4.69118	0.96413	0.00050	16.93362	0.41070	-0.03389	0.84739
0.03430	11.62549	2.01650	0.00074	-4.68189	0.95374	0.00048	16.76305	0.41337	-0.03421	0.85059
0.03511	11.54233	2.02077	0.00271	-4.66588	0.94219	0.00046	16.54026	0.41644	-0.03449	0.85358
0.03594	11.39832	2.02487	0.00476	-4.63925	0.92949	0.00042	16.21784	0.42029	-0.03475	0.85642
0.03678	11.18916	2.02881	0.00689	-4.60139	0.91564	0.00038	15.78791	0.42502	-0.03506	0.85963
0.03765	10.94056	2.03251	0.00905	-4.55673	0.90193	0.00033	15.30244	0.43023	-0.03541	0.86313
0.03854	10.69471	2.03580	0.01122	-4.51258	0.88984	0.00027	14.83486	0.43530	-0.03578	0.86672
0.03944	10.47323	2.03895	0.01347	-4.47287	0.87955	0.00022	14.41270	0.44002	-0.03618	0.87052
0.04037	10.24687	2.04231	0.01594	-4.43272	0.87147	0.00017	13.99276	0.44474	-0.03662	0.87457
0.04132	9.97154	2.04590	0.01870	-4.38438	0.86439	0.00010	13.50960	0.45013	-0.03707	0.87872
0.04229	9.67403	2.04946	0.02155	-4.33202	0.85616	0.00003	13.00291	0.45595	-0.03747	0.88250
0.04329	9.42576	2.05290	0.02418	-4.28767	0.84753	-0.00004	12.58226	0.46119	-0.03777	0.88552
0.04431	9.23538	2.05627	0.02647	-4.25279	0.83840	-0.00009	12.25565	0.46570	-0.03792	0.88757
0.04535	9.03960	2.05962	0.02853	-4.21662	0.82776	-0.00014	11.92601	0.47042	-0.03788	0.88835

0.04642	8.77937	2.06280	0.03065	-4.16914	0.81557	-0.00020	11.51002	0.47622	-0.03772	0.88832
0.04751	8.48964	2.06559	0.03282	-4.11628	0.80250	-0.00026	11.06094	0.48256	-0.03755	0.88808
0.04863	8.21180	2.06770	0.03487	-4.06508	0.78958	-0.00032	10.64110	0.48870	-0.03744	0.88805
0.04977	7.93502	2.06912	0.03681	-4.01386	0.77731	-0.00037	10.23525	0.49475	-0.03746	0.88875
0.05094	7.66456	2.07027	0.03872	-3.96398	0.76720	-0.00043	9.84661	0.50064	-0.03765	0.89058
0.05214	7.41222	2.07183	0.04075	-3.91774	0.76018	-0.00050	9.48931	0.50623	-0.03803	0.89362
0.05337	7.15383	2.07406	0.04302	-3.87101	0.75393	-0.00056	9.12784	0.51212	-0.03841	0.89668
0.05462	6.89372	2.07650	0.04528	-3.82403	0.74569	-0.00062	8.76682	0.51833	-0.03871	0.89928
0.05591	6.64338	2.07855	0.04729	-3.77821	0.73564	-0.00068	8.42672	0.52452	-0.03886	0.90095
0.05722	6.42724	2.07962	0.04884	-3.73754	0.72583	-0.00072	8.13760	0.53001	-0.03880	0.90123
0.05857	6.22530	2.08031	0.05008	-3.69917	0.71706	-0.00077	7.87016	0.53522	-0.03858	0.90053
0.05995	5.97096	2.08158	0.05158	-3.65227	0.70934	-0.00083	7.54856	0.54148	-0.03825	0.89945
0.06136	5.63364	2.08242	0.05352	-3.59116	0.70125	-0.00090	7.14112	0.54941	-0.03788	0.89825
0.06280	5.26799	2.08203	0.05563	-3.52468	0.69349	-0.00098	6.71612	0.55792	-0.03753	0.89725
0.06428	4.93294	2.08100	0.05766	-3.46297	0.68726	-0.00105	6.34273	0.56579	-0.03729	0.89713
0.06579	4.60203	2.07967	0.05978	-3.40159	0.68106	-0.00113	5.98822	0.57371	-0.03721	0.89800
0.06734	4.24336	2.07792	0.06209	-3.33517	0.67322	-0.00120	5.61394	0.58255	-0.03722	0.89947
0.06893	3.90140	2.07575	0.06424	-3.27150	0.66433	-0.00127	5.26387	0.59140	-0.03723	0.90093
0.07055	3.64598	2.07347	0.06589	-3.22254	0.65782	-0.00133	5.01138	0.59821	-0.03727	0.90230
0.07221	3.46314	2.07123	0.06708	-3.18564	0.65449	-0.00138	4.84153	0.60305	-0.03748	0.90473
0.07391	3.31834	2.06947	0.06765	-3.15509	0.65140	-0.00142	4.71249	0.60704	-0.03783	0.90811
0.07565	3.22295	2.06852	0.06720	-3.13374	0.64839	-0.00145	4.62585	0.61001	-0.03799	0.91027
0.07743	3.16734	2.06740	0.06589	-3.11993	0.64767	-0.00147	4.57121	0.61191	-0.03791	0.91069
0.07925	3.07006	2.06406	0.06459	-3.09830	0.64918	-0.00150	4.47650	0.61449	-0.03777	0.91046
0.08111	2.89722	2.05787	0.06376	-3.06236	0.65243	-0.00155	4.31388	0.61865	-0.03775	0.91098
0.08302	2.68855	2.05104	0.06335	-3.02000	0.65772	-0.00161	4.12268	0.62369	-0.03788	0.91269
0.08498	2.51160	2.04566	0.06291	-2.98400	0.66503	-0.00167	3.96541	0.62798	-0.03795	0.91436
0.08697	2.41140	2.04192	0.06200	-2.96187	0.67364	-0.00172	3.88323	0.63014	-0.03781	0.91495
0.08902	2.36198	2.03914	0.06085	-2.94823	0.68001	-0.00176	3.84848	0.63110	-0.03736	0.91356
0.09112	2.24332	2.03510	0.06032	-2.92065	0.67747	-0.00179	3.74861	0.63465	-0.03675	0.91130
0.09326	2.21993	2.02925	0.05864	-2.90846	0.68123	-0.00181	3.73917	0.63472	-0.03638	0.91074
0.09545	2.07155	2.02073	0.05771	-2.87351	0.67949	-0.00185	3.61588	0.63855	-0.03629	0.91210
0.09770	1.87903	2.01149	0.05663	-2.83124	0.67471	-0.00188	3.45247	0.64395	-0.03626	0.91385
0.10000	1.67460	2.00358	0.05533	-2.78802	0.66797	-0.00190	3.28125	0.65015	-0.03606	0.91458
0.10235	1.49273	1.99713	0.05379	-2.74974	0.66387	-0.00193	3.13539	0.65568	-0.03563	0.91407
0.10476	1.32419	1.99028	0.05210	-2.71353	0.66321	-0.00197	3.00736	0.66047	-0.03505	0.91263
0.10723	1.15603	1.98313	0.05019	-2.67709	0.66199	-0.00200	2.88018	0.66544	-0.03425	0.90985
0.10975	1.02158	1.97717	0.04757	-2.64743	0.65797	-0.00202	2.77215	0.67003	-0.03320	0.90553
0.11233	0.94789	1.97326	0.04419	-2.62949	0.65490	-0.00202	2.71230	0.67273	-0.03209	0.90098
0.11498	0.92919	1.96950	0.04016	-2.62062	0.65620	-0.00203	2.70022	0.67306	-0.03126	0.89824
0.11768	0.91320	1.96449	0.03584	-2.61162	0.66069	-0.00205	2.68961	0.67297	-0.03068	0.89690
0.12045	0.86635	1.95808	0.03168	-2.59727	0.66776	-0.00207	2.65286	0.67373	-0.03014	0.89523
0.12328	0.78598	1.94962	0.02799	-2.57617	0.67599	-0.00210	2.58962	0.67547	-0.02958	0.89308
0.12619	0.66708	1.93916	0.02471	-2.54685	0.68130	-0.00213	2.49807	0.67862	-0.02904	0.89095
0.12916	0.54425	1.92737	0.02112	-2.51535	0.68255	-0.00214	2.40612	0.68201	-0.02858	0.88932
0.13219	0.41027	1.91533	0.01730	-2.48100	0.67881	-0.00216	2.30870	0.68615	-0.02849	0.88992
0.13531	0.25987	1.90281	0.01321	-2.44318	0.66918	-0.00216	2.19696	0.69159	-0.02861	0.89152
0.13849	0.07952	1.89110	0.00924	-2.40078	0.65470	-0.00215	2.06335	0.69906	-0.02849	0.89141
0.14175	-0.12119	1.87994	0.00543	-2.35523	0.64011	-0.00215	1.91931	0.70784	-0.02805	0.88915
0.14508	-0.33446	1.86755	0.00170	-2.30644	0.62939	-0.00216	1.77454	0.71703	-0.02733	0.88502
0.14850	-0.53658	1.85343	-0.00244	-2.25838	0.62051	-0.00218	1.64108	0.72580	-0.02619	0.87790
0.15199	-0.71608	1.83927	-0.00712	-2.21447	0.60897	-0.00217	1.52223	0.73419	-0.02448	0.86660
0.15557	-0.85938	1.82666	-0.01216	-2.17846	0.59704	-0.00216	1.42884	0.74115	-0.02254	0.85335
0.15923	-0.93720	1.81652	-0.01784	-2.15667	0.58910	-0.00213	1.37708	0.74463	-0.02091	0.84215
0.16298	-0.95937	1.80913	-0.02400	-2.14761	0.58618	-0.00211	1.35948	0.74493	-0.01989	0.83511
0.16681	-0.95800	1.80453	-0.02992	-2.14457	0.58946	-0.00209	1.36249	0.74336	-0.01936	0.83168
0.17074	-0.95158	1.80234	-0.03539	-2.14307	0.59576	-0.00210	1.37476	0.74131	-0.01888	0.82868
0.17475	-0.97029	1.80169	-0.04023	-2.13766	0.59945	-0.00211	1.37287	0.74107	-0.01801	0.82312
0.17887	-1.01950	1.80082	-0.04458	-2.12690	0.59962	-0.00212	1.35276	0.74262	-0.01682	0.81551
0.18307	-1.06829	1.79708	-0.04935	-2.11427	0.59805	-0.00212	1.33393	0.74362	-0.01562	0.80804
0.18738	-1.10530	1.78889	-0.05491	-2.10023	0.59648	-0.00211	1.32372	0.74310	-0.01470	0.80245
0.19179	-1.13694	1.77824	-0.06075	-2.08528	0.59802	-0.00211	1.31976	0.74143	-0.01405	0.79867
0.19631	-1.15404	1.76879	-0.06672	-2.07416	0.60460	-0.00212	1.32700	0.73853	-0.01336	0.79496
0.20092	-1.15943	1.76049	-0.07291	-2.06627	0.61560	-0.00214	1.34190	0.73484	-0.01257	0.79118
0.20565	-1.18508	1.75128	-0.07904	-2.05440	0.63052	-0.00217	1.34376	0.73204	-0.01186	0.78842
0.21049	-1.24696	1.74209	-0.08479	-2.03680	0.64761	-0.00221	1.32171	0.73129	-0.01107	0.78541
0.21544	-1.31200	1.73570	-0.09041	-2.02149	0.66607	-0.00226	1.29694	0.73096	-0.00996	0.78018
0.22051	-1.34433	1.73244	-0.09631	-2.01463	0.68681	-0.00230	1.29279	0.72881	-0.00881	0.77453
0.22570	-1.34127	1.73093	-0.10248	-2.01500	0.70839	-0.00235	1.31341	0.72445	-0.00788	0.77067
0.23101	-1.32879	1.73015	-0.10860	-2.01714	0.72822	-0.00239	1.34432	0.71940	-0.00707	0.76788
0.23645	-1.33372	1.72830	-0.11458	-2.01512	0.74427	-0.00242	1.36601	0.71537	-0.00628	0.76516
0.24201	-1.37820	1.72307	-0.12057	-2.00307	0.75191	-0.00244	1.35958	0.71397	-0.00560	0.76287
0.24771	-1.47293	1.71486	-0.12655	-1.97929	0.74983	-0.00245	1.31780	0.71601	-0.00496	0.76071
0.25354	-1.58735	1.70637	-0.13248	-1.95192	0.74548	-0.00245	1.26167	0.71961	-0.00430	0.75825
0.25950	-1.71758	1.70094	-0.13752	-1.92459	0.74581	-0.00247	1.19920	0.72431	-0.00361	0.75573
0.26561	-1.84459	1.69778	-0.14176	-1.90005	0.74985	-0.00250	1.14160	0.72891	-0.00299	0.75381
0.27186	-1.96630	1.69439	-0.14582	-1.87634	0.74975	-0.00251	1.08683	0.73361	-0.00250	0.75269
0.27826	-2.06619	1.68921	-0.15085	-1.85514	0.74474	-0.00250	1.04304	0.73709	-0.00216	0.75228
0.28480	-2.13816	1.68244	-0.15726	-1.83769	0.74021	-0.00248	1.01550	0.73831	-0.00205	0.75300
0.29150	-2.18607	1.67530	-0.16467	-1.82415	0.73815	-0.00246	1.00293	0.73747	-0.00217	0.75508
0.29836	-2.21187	1.66975	-0.17224	-1.81608	0.73908	-0.00244	1.00430	0.73497	-0.00227	0.75700

0.30539	-2.22895	1.66764	-0.17901	-1.81294	0.74511	-0.00243	1.01574	0.73140	-0.00196	0.75654
0.31257	-2.24513	1.66766	-0.18497	-1.81221	0.75629	-0.00244	1.03377	0.72696	-0.00127	0.75367
0.31993	-2.25248	1.66783	-0.19100	-1.81349	0.77054	-0.00246	1.06087	0.72116	-0.00040	0.74947
0.32745	-2.25076	1.66746	-0.19774	-1.81615	0.78442	-0.00248	1.09500	0.71439	0.00044	0.74494
0.33517	-2.25351	1.66570	-0.20511	-1.81669	0.79455	-0.00249	1.12724	0.70784	0.00104	0.74135
0.34304	-2.26606	1.66258	-0.21268	-1.81379	0.80016	-0.00248	1.15450	0.70200	0.00134	0.73935
0.35112	-2.27780	1.65970	-0.22024	-1.81080	0.80249	-0.00247	1.18327	0.69638	0.00153	0.73813
0.35938	-2.28002	1.65805	-0.22773	-1.81059	0.80266	-0.00244	1.21702	0.69069	0.00186	0.73639
0.36784	-2.31585	1.65802	-0.23439	-1.80606	0.79993	-0.00242	1.22696	0.68789	0.00248	0.73295
0.37649	-2.42909	1.65934	-0.23951	-1.78926	0.79256	-0.00240	1.18444	0.69084	0.00337	0.72765
0.38536	-2.61523	1.66043	-0.24351	-1.75950	0.77819	-0.00238	1.09536	0.69926	0.00420	0.72263
0.39442	-2.83217	1.65981	-0.24746	-1.72268	0.75682	-0.00235	0.99122	0.71025	0.00475	0.71947
0.40370	-3.03296	1.65788	-0.25222	-1.68752	0.73378	-0.00232	0.90300	0.72011	0.00512	0.71741
0.41321	-3.18731	1.65675	-0.25792	-1.66158	0.71617	-0.00228	0.84705	0.72608	0.00559	0.71466
0.42292	-3.27297	1.65775	-0.26442	-1.65069	0.70877	-0.00224	0.83284	0.72588	0.00622	0.71085
0.43288	-3.28460	1.66107	-0.27143	-1.65638	0.71292	-0.00221	0.86322	0.71868	0.00679	0.70780
0.44307	-3.24058	1.66546	-0.27845	-1.67402	0.72697	-0.00218	0.93021	0.70614	0.00706	0.70734
0.45349	-3.17601	1.66938	-0.28512	-1.69525	0.74654	-0.00217	1.01589	0.69158	0.00708	0.70912
0.46417	-3.12987	1.67267	-0.29133	-1.71200	0.76655	-0.00216	1.09642	0.67853	0.00732	0.71017
0.47508	-3.13206	1.67552	-0.29713	-1.71856	0.78292	-0.00217	1.14804	0.66958	0.00803	0.70867
0.48626	-3.18531	1.67804	-0.30274	-1.71465	0.79377	-0.00218	1.16292	0.66518	0.00898	0.70593
0.49771	-3.27384	1.68112	-0.30830	-1.70438	0.79937	-0.00218	1.14972	0.66426	0.00994	0.70332
0.50942	-3.39516	1.68545	-0.31356	-1.68925	0.80037	-0.00219	1.11257	0.66640	0.01083	0.70117
0.52140	-3.55342	1.69044	-0.31826	-1.66813	0.79711	-0.00219	1.05226	0.67152	0.01162	0.69973
0.53367	-3.74246	1.69495	-0.32234	-1.64113	0.78992	-0.00220	0.97566	0.67898	0.01218	0.69962
0.54624	-3.93424	1.69873	-0.32610	-1.61321	0.77988	-0.00221	0.90186	0.68661	0.01238	0.70170
0.55910	-4.09771	1.70246	-0.32998	-1.59084	0.76786	-0.00220	0.84854	0.69191	0.01224	0.70584
0.57225	-4.21562	1.70660	-0.33435	-1.57775	0.75593	-0.00216	0.82498	0.69295	0.01195	0.71103
0.58569	-4.29061	1.71121	-0.33922	-1.57334	0.74774	-0.00213	0.83045	0.68938	0.01164	0.71630
0.59948	-4.33594	1.71629	-0.34442	-1.57493	0.74595	-0.00210	0.85901	0.68214	0.01146	0.72050
0.61357	-4.36371	1.72178	-0.34974	-1.58016	0.75071	-0.00208	0.90288	0.67278	0.01149	0.72311
0.62802	-4.38378	1.72787	-0.35509	-1.58754	0.76032	-0.00208	0.95435	0.66269	0.01168	0.72460
0.64280	-4.41145	1.73441	-0.36036	-1.59412	0.77178	-0.00208	1.00180	0.65350	0.01199	0.72523
0.65794	-4.45951	1.74081	-0.36548	-1.59662	0.78276	-0.00208	1.03713	0.64603	0.01236	0.72580
0.67340	-4.52982	1.74698	-0.37034	-1.59434	0.79261	-0.00209	1.05910	0.64027	0.01270	0.72692
0.68927	-4.61984	1.75325	-0.37486	-1.58815	0.80148	-0.00211	1.06941	0.63595	0.01303	0.72861
0.70547	-4.72682	1.75940	-0.37888	-1.57851	0.80877	-0.00214	1.06890	0.63284	0.01325	0.73127
0.72207	-4.84978	1.76510	-0.38246	-1.56535	0.81299	-0.00216	1.05823	0.63079	0.01333	0.73483
0.73910	-4.98594	1.77037	-0.38570	-1.54918	0.81259	-0.00218	1.03919	0.62966	0.01337	0.73837
0.75649	-5.13319	1.77569	-0.38863	-1.53084	0.80681	-0.00219	1.01220	0.62964	0.01347	0.74091
0.77429	-5.29686	1.78146	-0.39119	-1.50975	0.79567	-0.00218	0.97265	0.63158	0.01366	0.74196
0.79246	-5.48054	1.78784	-0.39342	-1.48530	0.78008	-0.00218	0.91803	0.63610	0.01390	0.74146
0.81116	-5.68385	1.79480	-0.39548	-1.45764	0.76187	-0.00217	0.85059	0.64320	0.01410	0.74020
0.83022	-5.89482	1.80199	-0.39749	-1.42877	0.74438	-0.00217	0.77965	0.65172	0.01408	0.73962
0.84976	-6.09761	1.80936	-0.39963	-1.40193	0.73149	-0.00218	0.71793	0.65945	0.01374	0.74069
0.86972	-6.28235	1.81688	-0.40198	-1.37904	0.72573	-0.00220	0.67257	0.66459	0.01321	0.74278
0.89023	-6.45364	1.82454	-0.40452	-1.35919	0.72698	-0.00225	0.64128	0.66697	0.01277	0.74449
0.91116	-6.61944	1.83202	-0.40714	-1.34043	0.73281	-0.00231	0.61746	0.66763	0.01258	0.74524
0.93257	-6.78043	1.83926	-0.40978	-1.32255	0.74122	-0.00237	0.59898	0.66700	0.01262	0.74535
0.95456	-6.92559	1.84645	-0.41253	-1.30802	0.75205	-0.00243	0.59090	0.66402	0.01277	0.74557
0.97704	-7.04552	1.85384	-0.41541	-1.29899	0.76528	-0.00249	0.59760	0.65783	0.01296	0.74619
1.00000	-7.14488	1.86170	-0.41834	-1.29481	0.77952	-0.00253	0.61673	0.64911	0.01329	0.74648
1.02354	-7.23721	1.87013	-0.42114	-1.29294	0.79256	-0.00256	0.64143	0.63946	0.01390	0.74539
1.04767	-7.33470	1.87894	-0.42365	-1.29071	0.80226	-0.00257	0.66418	0.63039	0.01477	0.74290
1.07227	-7.44021	1.88796	-0.42574	-1.28729	0.80737	-0.00257	0.68160	0.62256	0.01566	0.74047
1.09745	-7.54749	1.89740	-0.42739	-1.28419	0.80845	-0.00255	0.69695	0.61541	0.01628	0.74003
1.12334	-7.64972	1.90752	-0.42873	-1.28316	0.80680	-0.00251	0.71497	0.60815	0.01645	0.74268
1.14982	-7.74945	1.91832	-0.42989	-1.28375	0.80288	-0.00246	0.73455	0.60095	0.01628	0.74780
1.17675	-7.85585	1.92964	-0.43097	-1.28391	0.79683	-0.00241	0.75091	0.59440	0.01599	0.75361
1.20453	-7.98351	1.94143	-0.43196	-1.28075	0.78867	-0.00237	0.75698	0.58928	0.01572	0.75926
1.23289	-8.14001	1.95342	-0.43265	-1.27232	0.77916	-0.00234	0.74725	0.58628	0.01545	0.76467
1.26183	-8.33060	1.96549	-0.43288	-1.25733	0.76805	-0.00233	0.71801	0.58602	0.01519	0.76996
1.29149	-8.55268	1.97749	-0.43259	-1.23610	0.75513	-0.00234	0.67228	0.58825	0.01490	0.77552
1.32188	-8.79709	1.98915	-0.43183	-1.21014	0.74029	-0.00236	0.61737	0.59205	0.01456	0.78155
1.35300	-9.05737	2.00031	-0.43071	-1.18057	0.72265	-0.00239	0.55810	0.59690	0.01428	0.78740
1.38485	-9.32210	2.01114	-0.42938	-1.14992	0.70299	-0.00240	0.50179	0.60164	0.01417	0.79237
1.41743	-9.57590	2.02191	-0.42803	-1.12167	0.68389	-0.00242	0.45714	0.60417	0.01423	0.79652
1.45075	-9.80407	2.03282	-0.42679	-1.09912	0.66884	-0.00242	0.43172	0.60189	0.01440	0.80009
1.48500	-10.00073	2.04396	-0.42571	-1.08367	0.66010	-0.00243	0.42906	0.59309	0.01463	0.80338
1.51999	-10.16560	2.05518	-0.42472	-1.07502	0.65807	-0.00244	0.44941	0.57788	0.01485	0.80676
1.55569	-10.30487	2.06648	-0.42371	-1.07173	0.66163	-0.00245	0.49087	0.55783	0.01505	0.81039
1.59236	-10.42948	2.07795	-0.42251	-1.07159	0.66889	-0.00247	0.54904	0.53531	0.01526	0.81409
1.62973	-10.54742	2.08949	-0.42103	-1.07260	0.67813	-0.00248	0.61800	0.51256	0.01552	0.81771
1.66806	-10.66726	2.10109	-0.41922	-1.07291	0.68776	-0.00250	0.69059	0.49117	0.01578	0.82165
1.70736	-10.78946	2.11280	-0.41712	-1.07239	0.69761	-0.00252	0.76383	0.47156	0.01599	0.82644
1.74764	-10.91112	2.12470	-0.41483	-1.07171	0.70806	-0.00254	0.83753	0.45367	0.01606	0.83251
1.78859	-11.02940	2.13671	-0.41247	-1.07121	0.71901	-0.00255	0.91053	0.43762	0.01595	0.84025
1.83083	-11.14487	2.14894	-0.41012	-1.07097	0.73044	-0.00257	0.98325	0.42315	0.01562	0.85000
1.87371	-11.25528	2.16114	-0.40788	-1.07101	0.74200	-0.00258	1.05365	0.41046	0.01509	0.86148
1.91791	-11.36160	2.17350	-0.40578	-1.07150	0.75394	-0.00260	1.12304	0.39920	0.01442	0.87430
1.96309	-11.46364	2.18590	-0.40388	-1.07230	0.76591	-0.00261	1.18946	0.38946	0.01370	0.88758

2.00924	-11.56191	2.19831	-0.40221	-1.07337	0.77780	-0.00263	1.25190	0.38116	0.01302	0.90052
2.05634	-11.65821	2.21074	-0.40078	-1.07440	0.78925	-0.00264	1.30729	0.37441	0.01244	0.91259
2.10482	-11.75486	2.22327	-0.39958	-1.07510	0.79994	-0.00265	1.35344	0.36916	0.01195	0.92356
2.15424	-11.85179	2.23575	-0.39864	-1.07533	0.80954	-0.00266	1.38833	0.36541	0.01156	0.93324
2.20507	-11.95117	2.24830	-0.39792	-1.07487	0.81773	-0.00267	1.41002	0.36316	0.01122	0.94176
2.25683	-12.05245	2.26081	-0.39742	-1.07371	0.82420	-0.00267	1.41845	0.36230	0.01093	0.94919
2.31000	-12.15656	2.27339	-0.39709	-1.07195	0.82889	-0.00267	1.41583	0.36253	0.01067	0.95566
2.36463	-12.26260	2.28602	-0.39689	-1.06988	0.83201	-0.00266	1.40680	0.36331	0.01048	0.96108
2.42014	-12.36863	2.29858	-0.39675	-1.06788	0.83389	-0.00266	1.39630	0.36410	0.01038	0.96534
2.47709	-12.47413	2.31117	-0.39653	-1.06647	0.83512	-0.00264	1.39045	0.36426	0.01039	0.96848
2.53550	-12.57808	2.32378	-0.39616	-1.06598	0.83616	-0.00262	1.39383	0.36327	0.01051	0.97070
2.59471	-12.67917	2.33623	-0.39557	-1.06653	0.83725	-0.00260	1.40897	0.36086	0.01073	0.97227
2.65604	-12.78048	2.34881	-0.39462	-1.06803	0.83843	-0.00257	1.43689	0.35695	0.01105	0.97345
2.71887	-12.88152	2.36134	-0.39328	-1.07031	0.83936	-0.00254	1.47772	0.35160	0.01143	0.97460
2.78242	-12.98194	2.37368	-0.39148	-1.07313	0.83982	-0.00250	1.53177	0.34489	0.01187	0.97597
2.84819	-13.08526	2.38604	-0.38911	-1.07630	0.83973	-0.00246	1.60105	0.33672	0.01236	0.97784
2.91545	-13.18856	2.39819	-0.38618	-1.07999	0.83964	-0.00243	1.68974	0.32693	0.01286	0.98047
2.98329	-13.29064	2.40991	-0.38265	-1.08416	0.83977	-0.00239	1.80110	0.31558	0.01337	0.98371
3.05344	-13.39429	2.42139	-0.37852	-1.08851	0.83989	-0.00235	1.93837	0.30256	0.01388	0.98774
3.12598	-13.50036	2.43259	-0.37369	-1.09303	0.84040	-0.00232	2.10551	0.28802	0.01438	0.99226
3.19898	-13.60516	2.44313	-0.36842	-1.09746	0.84175	-0.00229	2.30013	0.27253	0.01486	0.99710
3.27439	-13.71545	2.45337	-0.36248	-1.10130	0.84372	-0.00227	2.52535	0.25601	0.01534	1.00177
3.35121	-13.83015	2.46309	-0.35609	-1.10414	0.84606	-0.00225	2.77396	0.23907	0.01582	1.00609
3.43053	-13.95199	2.47250	-0.34908	-1.10609	0.84906	-0.00224	3.05190	0.22151	0.01633	1.00988
3.51124	-14.07884	2.48140	-0.34173	-1.10684	0.85212	-0.00224	3.34573	0.20407	0.01684	1.01352
3.59324	-14.21398	2.48983	-0.33397	-1.10594	0.85461	-0.00224	3.64531	0.18710	0.01735	1.01696
3.67782	-14.35602	2.49802	-0.32596	-1.10362	0.85608	-0.00224	3.95016	0.17054	0.01783	1.02108
3.76506	-14.50631	2.50583	-0.31757	-1.09989	0.85623	-0.00224	4.24698	0.15505	0.01831	1.02570
3.85356	-14.65824	2.51356	-0.30919	-1.09537	0.85535	-0.00224	4.53992	0.14039	0.01876	1.03114
3.94477	-14.81383	2.52076	-0.30070	-1.09000	0.85350	-0.00224	4.80679	0.12759	0.01922	1.03669
4.03714	-14.96917	2.52809	-0.29231	-1.08434	0.85135	-0.00225	5.06095	0.11585	0.01965	1.04247
4.13223	-15.12333	2.53497	-0.28416	-1.07847	0.84921	-0.00226	5.27185	0.10635	0.02001	1.04840
4.23012	-15.27782	2.54170	-0.27603	-1.07252	0.84737	-0.00226	5.44207	0.09881	0.02030	1.05411
4.32900	-15.42561	2.54860	-0.26834	-1.06734	0.84644	-0.00227	5.58948	0.09254	0.02049	1.05970
4.43066	-15.56768	2.55448	-0.26099	-1.06259	0.84585	-0.00228	5.67145	0.08913	0.02053	1.06504
4.53515	-15.70864	2.56098	-0.25371	-1.05840	0.84585	-0.00229	5.73392	0.08663	0.02046	1.07031
4.64253	-15.84340	2.56716	-0.24689	-1.05482	0.84602	-0.00230	5.76551	0.08549	0.02027	1.07569
4.75059	-15.96938	2.57218	-0.24048	-1.05176	0.84596	-0.00230	5.74368	0.08660	0.01990	1.08109
4.86145	-16.09595	2.57846	-0.23413	-1.04926	0.84641	-0.00230	5.72367	0.08775	0.01947	1.08657
4.97760	-16.21732	2.58401	-0.22819	-1.04719	0.84708	-0.00230	5.67621	0.09012	0.01895	1.09238
5.09424	-16.32945	2.58842	-0.22266	-1.04560	0.84783	-0.00230	5.59203	0.09417	0.01827	1.09851
5.21376	-16.44525	2.59463	-0.21710	-1.04443	0.84934	-0.00230	5.52077	0.09776	0.01757	1.10474
5.33618	-16.55355	2.60003	-0.21203	-1.04369	0.85121	-0.00230	5.44257	0.10181	0.01685	1.11109
5.46150	-16.65159	2.60374	-0.20732	-1.04355	0.85332	-0.00230	5.33740	0.10737	0.01600	1.11802
5.58971	-16.75621	2.60962	-0.20241	-1.04373	0.85611	-0.00230	5.24495	0.11245	0.01513	1.12514
5.72082	-16.86069	2.61607	-0.19773	-1.04401	0.85907	-0.00230	5.16421	0.11701	0.01433	1.13225
5.85823	-16.95052	2.61939	-0.19357	-1.04482	0.86181	-0.00230	5.06189	0.12297	0.01346	1.14005
5.99520	-17.04240	2.62402	-0.18930	-1.04592	0.86485	-0.00230	4.96435	0.12882	0.01258	1.14804
6.13497	-17.14580	2.63149	-0.18474	-1.04688	0.86820	-0.00229	4.88391	0.13368	0.01178	1.15594
6.28141	-17.23847	2.63658	-0.18076	-1.04798	0.87123	-0.00229	4.80448	0.13868	0.01102	1.16400
6.42674	-17.31507	2.63898	-0.17728	-1.04951	0.87395	-0.00229	4.71733	0.14441	0.01024	1.17225
6.57895	-17.40705	2.64448	-0.17319	-1.05102	0.87706	-0.00228	4.63455	0.14981	0.00946	1.18084
6.73401	-17.51304	2.65306	-0.16874	-1.05218	0.88034	-0.00228	4.56549	0.15423	0.00877	1.18922
6.89180	-17.59709	2.65735	-0.16531	-1.05355	0.88311	-0.00227	4.50337	0.15859	0.00815	1.19742
7.05716	-17.66781	2.65882	-0.16224	-1.05544	0.88572	-0.00227	4.43560	0.16367	0.00749	1.20604
7.22022	-17.75217	2.66362	-0.15863	-1.05709	0.88851	-0.00227	4.37346	0.16818	0.00686	1.21426
7.39098	-17.85910	2.67273	-0.15422	-1.05838	0.89160	-0.00226	4.31629	0.17209	0.00628	1.22229
7.56430	-17.95271	2.67929	-0.15061	-1.05955	0.89430	-0.00225	4.27056	0.17543	0.00579	1.22960
7.73994	-18.01002	2.67881	-0.14839	-1.06134	0.89641	-0.00225	4.22730	0.17924	0.00533	1.23650
7.92393	-18.08311	2.68129	-0.14543	-1.06313	0.89881	-0.00225	4.18124	0.18309	0.00483	1.24319
8.11030	-18.17368	2.68742	-0.14174	-1.06466	0.90141	-0.00224	4.13671	0.18657	0.00436	1.24934
8.29876	-18.28770	2.69836	-0.13721	-1.06573	0.90424	-0.00223	4.09554	0.18944	0.00394	1.25486
8.49618	-18.36999	2.70269	-0.13432	-1.06692	0.90643	-0.00222	4.06506	0.19204	0.00359	1.25991
8.69565	-18.41434	2.69970	-0.13293	-1.06864	0.90803	-0.00222	4.03809	0.19497	0.00326	1.26477
8.90472	-18.48534	2.70178	-0.13031	-1.07024	0.91005	-0.00221	4.00644	0.19791	0.00289	1.26970
9.11577	-18.56862	2.70649	-0.12714	-1.07169	0.91220	-0.00221	3.97526	0.20064	0.00254	1.27450
9.32836	-18.68529	2.71807	-0.12247	-1.07286	0.91483	-0.00220	3.94198	0.20309	0.00219	1.27925
9.54198	-18.78880	2.72718	-0.11875	-1.07369	0.91702	-0.00219	3.91756	0.20494	0.00192	1.28380
9.76563	-18.82437	2.72248	-0.11823	-1.07498	0.91806	-0.00218	3.90405	0.20686	0.00171	1.28874
10.00000	-18.86900	2.71935	-0.11714	-1.07638	0.91926	-0.00218	3.88639	0.20903	0.00146	1.29451

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
High stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 610 - 1220 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.95883	3.40704	-0.04390	-1.65787	0.97571	-0.00096	0.86770	0.49301	-0.02495	0.37122
PGV	3.79584	2.12643	-0.11238	-2.93872	1.51096	-0.00123	9.04191	0.32421	-0.01135	0.40123
PGA	10.05133	1.79480	-0.07688	-4.39798	1.46737	-0.00008	18.01356	0.33630	-0.03863	0.78956
0.01000	11.22264	1.80772	-0.07718	-4.61161	1.47729	0.00015	20.23055	0.32566	-0.01711	0.73421
0.01024	11.15189	1.81071	-0.07625	-4.59946	1.46729	0.00015	20.06077	0.32762	-0.01712	0.73448
0.01048	11.08313	1.81366	-0.07530	-4.58768	1.45738	0.00014	19.89295	0.32956	-0.01715	0.73480
0.01072	11.01686	1.81657	-0.07435	-4.57636	1.44759	0.00014	19.72817	0.33149	-0.01719	0.73516
0.01097	10.95417	1.81947	-0.07339	-4.56570	1.43790	0.00014	19.56866	0.33338	-0.01725	0.73558
0.01123	10.89631	1.82236	-0.07241	-4.55592	1.42834	0.00014	19.41695	0.33523	-0.01732	0.73605
0.01150	10.84366	1.82524	-0.07142	-4.54708	1.41891	0.00014	19.27391	0.33703	-0.01741	0.73655
0.01177	10.79506	1.82811	-0.07043	-4.53897	1.40958	0.00014	19.13759	0.33880	-0.01751	0.73707
0.01205	10.74951	1.83096	-0.06944	-4.53139	1.40035	0.00014	19.00640	0.34053	-0.01762	0.73762
0.01233	10.70760	1.83379	-0.06845	-4.52444	1.39119	0.00014	18.88156	0.34223	-0.01774	0.73821
0.01262	10.67187	1.83661	-0.06746	-4.51859	1.38212	0.00014	18.76764	0.34387	-0.01787	0.73884
0.01292	10.64261	1.83946	-0.06646	-4.51390	1.37315	0.00015	18.66468	0.34544	-0.01801	0.73951
0.01322	10.61978	1.84232	-0.06544	-4.51037	1.36429	0.00015	18.57242	0.34696	-0.01816	0.74023
0.01353	10.60434	1.84522	-0.06441	-4.50816	1.35554	0.00016	18.49280	0.34841	-0.01832	0.74100
0.01385	10.59708	1.84816	-0.06335	-4.50740	1.34688	0.00017	18.42705	0.34978	-0.01850	0.74186
0.01417	10.59676	1.85114	-0.06228	-4.50789	1.33829	0.00018	18.37253	0.35109	-0.01869	0.74278
0.01451	10.60211	1.85415	-0.06119	-4.50938	1.32981	0.00019	18.32691	0.35236	-0.01888	0.74376
0.01485	10.61662	1.85720	-0.06009	-4.51250	1.32149	0.00020	18.29712	0.35353	-0.01908	0.74480
0.01520	10.64523	1.86031	-0.05899	-4.51813	1.31332	0.00022	18.29164	0.35456	-0.01929	0.74596
0.01556	10.68290	1.86350	-0.05785	-4.52537	1.30510	0.00024	18.29989	0.35552	-0.01951	0.74729
0.01592	10.72301	1.86674	-0.05667	-4.53305	1.29673	0.00026	18.30917	0.35649	-0.01975	0.74880
0.01630	10.76872	1.87003	-0.05546	-4.54173	1.28838	0.00027	18.32629	0.35742	-0.02001	0.75048
0.01668	10.82119	1.87335	-0.05422	-4.55159	1.28007	0.00030	18.35441	0.35829	-0.02029	0.75232
0.01707	10.87800	1.87669	-0.05299	-4.56216	1.27168	0.00032	18.38908	0.35913	-0.02059	0.75440
0.01748	10.93212	1.88000	-0.05175	-4.57216	1.26316	0.00034	18.41794	0.36001	-0.02090	0.75661
0.01789	10.98472	1.88328	-0.05051	-4.58178	1.25455	0.00036	18.44395	0.36091	-0.02122	0.75884
0.01831	11.04512	1.88658	-0.04925	-4.59274	1.24602	0.00038	18.48316	0.36173	-0.02153	0.76107
0.01874	11.12231	1.88998	-0.04796	-4.60667	1.23780	0.00040	18.55070	0.36239	-0.02184	0.76323
0.01918	11.21834	1.89349	-0.04665	-4.62392	1.22984	0.00043	18.65038	0.36287	-0.02213	0.76532
0.01963	11.32502	1.89709	-0.04533	-4.64298	1.22166	0.00046	18.76638	0.36329	-0.02242	0.76738
0.02009	11.43063	1.90073	-0.04398	-4.66176	1.21285	0.00049	18.87612	0.36378	-0.02272	0.76951
0.02057	11.52719	1.90434	-0.04261	-4.67883	1.20346	0.00052	18.96638	0.36441	-0.02305	0.77188
0.02105	11.61548	1.90791	-0.04125	-4.69433	1.19397	0.00055	19.04118	0.36513	-0.02343	0.77456
0.02154	11.69851	1.91143	-0.03987	-4.70881	1.18477	0.00057	19.10723	0.36590	-0.02381	0.77727
0.02205	11.78598	1.91498	-0.03847	-4.72402	1.17577	0.00060	19.18014	0.36663	-0.02416	0.77974
0.02257	11.90160	1.91869	-0.03707	-4.74409	1.16666	0.00063	19.30151	0.36711	-0.02450	0.78211
0.02310	12.04704	1.92256	-0.03567	-4.76930	1.15741	0.00066	19.47373	0.36735	-0.02483	0.78449
0.02364	12.20354	1.92651	-0.03425	-4.79637	1.14800	0.00070	19.66225	0.36752	-0.02515	0.78680
0.02420	12.35078	1.93042	-0.03281	-4.82178	1.13864	0.00074	19.83087	0.36781	-0.02548	0.78916
0.02477	12.46770	1.93424	-0.03131	-4.84191	1.12940	0.00076	19.94063	0.36841	-0.02586	0.79184
0.02535	12.56126	1.93804	-0.02974	-4.85793	1.11986	0.00079	20.00390	0.36928	-0.02630	0.79495
0.02595	12.66091	1.94192	-0.02815	-4.87475	1.10965	0.00081	20.07815	0.37015	-0.02680	0.79846
0.02656	12.76841	1.94586	-0.02658	-4.89271	1.09945	0.00084	20.16802	0.37096	-0.02731	0.80216
0.02719	12.86223	1.94976	-0.02501	-4.90823	1.08963	0.00086	20.23273	0.37189	-0.02778	0.80557
0.02783	12.90975	1.95355	-0.02337	-4.91570	1.07947	0.00087	20.20879	0.37332	-0.02817	0.80849
0.02848	12.89223	1.95729	-0.02160	-4.91197	1.06833	0.00086	20.05825	0.37547	-0.02852	0.81126
0.02915	12.82433	1.96098	-0.01970	-4.89964	1.05678	0.00085	19.81171	0.37819	-0.02887	0.81417
0.02984	12.73191	1.96456	-0.01773	-4.88304	1.04566	0.00084	19.52638	0.38112	-0.02924	0.81729
0.03054	12.65466	1.96803	-0.01580	-4.86881	1.03515	0.00082	19.27909	0.38383	-0.02956	0.82016
0.03126	12.63106	1.97156	-0.01398	-4.86358	1.02534	0.00081	19.13559	0.38595	-0.02988	0.82307
0.03199	12.65824	1.97526	-0.01228	-4.86686	1.01595	0.00081	19.08615	0.38755	-0.03025	0.82645
0.03275	12.67556	1.97903	-0.01060	-4.86828	1.00605	0.00081	19.01740	0.38931	-0.03059	0.82970
0.03352	12.61722	1.98277	-0.00868	-4.85681	0.99530	0.00079	18.80652	0.39196	-0.03085	0.83239
0.03430	12.48899	1.98650	-0.00643	-4.83361	0.98424	0.00076	18.46469	0.39543	-0.03102	0.83456
0.03511	12.36430	1.99013	-0.00416	-4.81098	0.97381	0.00074	18.13570	0.39884	-0.03115	0.83651
0.03594	12.28178	1.99371	-0.00214	-4.79520	0.96407	0.00071	17.89440	0.40171	-0.03137	0.83905
0.03678	12.25262	1.99741	-0.00042	-4.78814	0.95464	0.00069	17.75606	0.40398	-0.03177	0.84287
0.03765	12.23941	2.00109	0.00107	-4.78362	0.94499	0.00068	17.64758	0.40608	-0.03225	0.84721
0.03854	12.15322	2.00452	0.00261	-4.76666	0.93409	0.00066	17.40849	0.40904	-0.03258	0.85058
0.03944	11.98997	2.00759	0.00427	-4.73664	0.92271	0.00062	17.03822	0.41287	-0.03273	0.85275
0.04037	11.80664	2.01029	0.00591	-4.70321	0.91241	0.00058	16.64598	0.41679	-0.03287	0.85471
0.04132	11.60773	2.01289	0.00769	-4.66705	0.90293	0.00054	16.23708	0.42088	-0.03313	0.85754
0.04229	11.40624	2.01565	0.00961	-4.63045	0.89427	0.00049	15.83065	0.42504	-0.03349	0.86095
0.04329	11.23422	2.01865	0.01148	-4.59896	0.88785	0.00044	15.48385	0.42878	-0.03391	0.86481
0.04431	11.09272	2.02171	0.01320	-4.57275	0.88384	0.00038	15.19962	0.43201	-0.03435	0.86873
0.04535	10.96947	2.02454	0.01473	-4.54937	0.88048	0.00034	14.95802	0.43491	-0.03478	0.87247

0.04642	10.82684	2.02720	0.01619	-4.52211	0.87523	0.00029	14.69319	0.43811	-0.03516	0.87581
0.04751	10.61072	2.02963	0.01779	-4.48171	0.86732	0.00023	14.31892	0.44237	-0.03541	0.87834
0.04863	10.33757	2.03184	0.01955	-4.43129	0.85818	0.00016	13.86263	0.44746	-0.03567	0.88082
0.04977	10.05399	2.03419	0.02149	-4.37929	0.84930	0.00008	13.39234	0.45283	-0.03593	0.88340
0.05094	9.77478	2.03662	0.02354	-4.32827	0.84165	0.00001	12.93479	0.45819	-0.03617	0.88573
0.05214	9.52111	2.03904	0.02548	-4.28153	0.83533	-0.00006	12.52801	0.46319	-0.03641	0.88807
0.05337	9.27966	2.04128	0.02713	-4.23668	0.82875	-0.00013	12.15135	0.46801	-0.03660	0.88999
0.05462	9.00984	2.04291	0.02860	-4.18668	0.81949	-0.00019	11.73735	0.47336	-0.03664	0.89090
0.05591	8.68937	2.04412	0.03023	-4.12772	0.80774	-0.00026	11.25369	0.47968	-0.03646	0.89024
0.05722	8.33763	2.04533	0.03208	-4.06361	0.79603	-0.00034	10.73328	0.48666	-0.03602	0.88795
0.05857	8.03396	2.04620	0.03372	-4.00786	0.78663	-0.00040	10.29284	0.49283	-0.03564	0.88594
0.05995	7.80507	2.04635	0.03489	-3.96447	0.77995	-0.00046	9.96998	0.49760	-0.03552	0.88583
0.06136	7.59727	2.04605	0.03595	-3.92435	0.77611	-0.00052	9.68970	0.50179	-0.03553	0.88677
0.06280	7.35501	2.04507	0.03722	-3.87807	0.77498	-0.00059	9.37760	0.50630	-0.03561	0.88825
0.06428	7.07531	2.04350	0.03868	-3.82507	0.77413	-0.00067	9.02385	0.51144	-0.03576	0.89031
0.06579	6.79067	2.04155	0.03999	-3.77078	0.77047	-0.00074	8.66446	0.51697	-0.03586	0.89225
0.06734	6.46071	2.03927	0.04133	-3.70846	0.76240	-0.00081	8.24389	0.52381	-0.03579	0.89323
0.06893	6.04565	2.03691	0.04309	-3.63160	0.75069	-0.00089	7.71831	0.53281	-0.03547	0.89268
0.07055	5.62030	2.03476	0.04502	-3.55331	0.73990	-0.00097	7.19536	0.54233	-0.03498	0.89076
0.07221	5.23788	2.03238	0.04656	-3.48262	0.73262	-0.00105	6.74323	0.55098	-0.03446	0.88826
0.07391	4.92296	2.02856	0.04717	-3.42283	0.72797	-0.00112	6.38636	0.55797	-0.03405	0.88619
0.07565	4.65714	2.02319	0.04716	-3.37020	0.72374	-0.00118	6.09740	0.56377	-0.03384	0.88528
0.07743	4.36794	2.01739	0.04731	-3.31306	0.71804	-0.00124	5.78620	0.57039	-0.03402	0.88701
0.07925	4.04188	2.01238	0.04797	-3.25019	0.71168	-0.00130	5.43738	0.57840	-0.03447	0.89071
0.08111	3.74195	2.00830	0.04863	-3.19264	0.70675	-0.00136	5.12204	0.58614	-0.03491	0.89421
0.08302	3.53393	2.00475	0.04852	-3.15125	0.70399	-0.00141	4.90748	0.59171	-0.03528	0.89732
0.08498	3.38681	2.00166	0.04772	-3.12012	0.70059	-0.00145	4.75991	0.59585	-0.03551	0.89956
0.08697	3.21374	1.99735	0.04690	-3.08330	0.69381	-0.00148	4.59178	0.60072	-0.03548	0.90029
0.08902	3.01387	1.99082	0.04618	-3.04027	0.68676	-0.00152	4.40558	0.60604	-0.03537	0.90065
0.09112	2.88216	1.98398	0.04500	-3.00925	0.68609	-0.00155	4.29082	0.60907	-0.03518	0.90083
0.09326	2.83058	1.97823	0.04322	-2.99384	0.69227	-0.00158	4.24887	0.60968	-0.03465	0.89900
0.09545	2.77861	1.97346	0.04125	-2.98022	0.69991	-0.00161	4.19907	0.61044	-0.03363	0.89405
0.09770	2.69153	1.96863	0.03914	-2.96122	0.70561	-0.00164	4.11139	0.61236	-0.03234	0.88731
0.10000	2.57550	1.96414	0.03714	-2.93701	0.71066	-0.00167	4.00284	0.61508	-0.03110	0.88110
0.10235	2.42782	1.95921	0.03547	-2.90575	0.71563	-0.00172	3.88015	0.61845	-0.03009	0.87662
0.10476	2.28524	1.95267	0.03363	-2.87313	0.71967	-0.00177	3.77402	0.62134	-0.02919	0.87271
0.10723	2.18428	1.94469	0.03109	-2.84635	0.72303	-0.00181	3.70807	0.62282	-0.02839	0.86951
0.10975	2.11642	1.93659	0.02800	-2.82550	0.72676	-0.00184	3.66785	0.62337	-0.02786	0.86818
0.11233	2.05696	1.92947	0.02468	-2.80734	0.73013	-0.00187	3.62425	0.62414	-0.02773	0.86958
0.11498	1.96416	1.92198	0.02138	-2.78353	0.73138	-0.00189	3.54242	0.62629	-0.02787	0.87279
0.11768	1.82413	1.91241	0.01807	-2.75032	0.73051	-0.00191	3.42061	0.62973	-0.02803	0.87607
0.12045	1.65997	1.90110	0.01463	-2.71205	0.72805	-0.00193	3.28068	0.63379	-0.02809	0.87864
0.12328	1.48943	1.88989	0.01142	-2.67275	0.72623	-0.00196	3.13741	0.63819	-0.02805	0.88024
0.12619	1.33399	1.88131	0.00877	-2.63778	0.72753	-0.00199	3.01168	0.64235	-0.02777	0.87989
0.12916	1.20420	1.87513	0.00636	-2.60913	0.73057	-0.00202	2.91069	0.64584	-0.02705	0.87651
0.13219	1.06688	1.86902	0.00398	-2.57923	0.73239	-0.00206	2.80606	0.64967	-0.02598	0.87065
0.13531	0.92294	1.86166	0.00147	-2.54685	0.73392	-0.00209	2.69893	0.65368	-0.02491	0.86442
0.13849	0.80311	1.85315	-0.00159	-2.51747	0.73781	-0.00213	2.61436	0.65656	-0.02392	0.85832
0.14175	0.69927	1.84434	-0.00521	-2.49059	0.74423	-0.00217	2.54528	0.65865	-0.02305	0.85279
0.14508	0.56620	1.83594	-0.00895	-2.45882	0.74863	-0.00220	2.45319	0.66218	-0.02224	0.84788
0.14850	0.41917	1.82930	-0.01247	-2.42599	0.75145	-0.00224	2.35264	0.66663	-0.02130	0.84221
0.15199	0.30936	1.82367	-0.01619	-2.40111	0.75544	-0.00227	2.27949	0.66974	-0.02028	0.83582
0.15557	0.19879	1.81655	-0.02019	-2.37575	0.75675	-0.00228	2.20007	0.67316	-0.01926	0.82935
0.15923	0.02499	1.80768	-0.02400	-2.33826	0.75147	-0.00229	2.07160	0.67973	-0.01831	0.82341
0.16298	-0.16312	1.79670	-0.02821	-2.29667	0.74293	-0.00229	1.93431	0.68716	-0.01750	0.81858
0.16681	-0.32049	1.78442	-0.03300	-2.25970	0.73607	-0.00228	1.82220	0.69309	-0.01664	0.81347
0.17074	-0.43770	1.77234	-0.03813	-2.23001	0.73156	-0.00227	1.74110	0.69701	-0.01569	0.80786
0.17475	-0.53241	1.76310	-0.04312	-2.20604	0.72985	-0.00227	1.68221	0.69976	-0.01488	0.80335
0.17887	-0.59813	1.75650	-0.04843	-2.18894	0.73177	-0.00228	1.64826	0.70085	-0.01437	0.80099
0.18307	-0.62654	1.75161	-0.05427	-2.18009	0.73938	-0.00229	1.64078	0.69979	-0.01383	0.79853
0.18738	-0.63937	1.74652	-0.06031	-2.17450	0.75055	-0.00230	1.64219	0.69772	-0.01308	0.79484
0.19179	-0.66344	1.73954	-0.06637	-2.16566	0.75913	-0.00231	1.63354	0.69624	-0.01224	0.79081
0.19631	-0.69828	1.73244	-0.07241	-2.15479	0.76314	-0.00231	1.61544	0.69569	-0.01137	0.78691
0.20092	-0.72184	1.72664	-0.07859	-2.14683	0.76679	-0.00230	1.60648	0.69457	-0.01069	0.78445
0.20565	-0.72836	1.72027	-0.08513	-2.14097	0.77162	-0.00229	1.61315	0.69206	-0.01021	0.78319
0.21049	-0.73821	1.71283	-0.09177	-2.13337	0.77475	-0.00229	1.61992	0.68948	-0.00976	0.78233
0.21544	-0.78542	1.70483	-0.09799	-2.11855	0.77502	-0.00228	1.60433	0.68870	-0.00936	0.78185
0.22051	-0.84981	1.69651	-0.10395	-2.10032	0.77544	-0.00228	1.58144	0.68844	-0.00888	0.78067
0.22570	-0.90535	1.68911	-0.10989	-2.08460	0.78038	-0.00229	1.56845	0.68725	-0.00819	0.77789
0.23101	-0.94932	1.68259	-0.11596	-2.07223	0.79211	-0.00232	1.56331	0.68512	-0.00735	0.77421
0.23645	-0.99542	1.67712	-0.12202	-2.06074	0.80609	-0.00235	1.55424	0.68327	-0.00633	0.76974
0.24201	-1.04564	1.67268	-0.12787	-2.04901	0.81560	-0.00237	1.54042	0.68222	-0.00526	0.76501
0.24771	-1.11472	1.66873	-0.13347	-2.03363	0.81834	-0.00237	1.51330	0.68277	-0.00446	0.76159
0.25354	-1.21628	1.66413	-0.13873	-2.01172	0.81584	-0.00238	1.46363	0.68544	-0.00406	0.76072
0.25950	-1.32884	1.65706	-0.14400	-1.98587	0.80862	-0.00237	1.40609	0.68873	-0.00398	0.76203
0.26561	-1.44464	1.64795	-0.14944	-1.95747	0.79756	-0.00235	1.34682	0.69222	-0.00375	0.76219
0.27186	-1.55758	1.63942	-0.15497	-1.92947	0.78588	-0.00233	1.29169	0.69572	-0.00306	0.75905
0.27826	-1.66430	1.63425	-0.16025	-1.90472	0.77834	-0.00233	1.24693	0.69886	-0.00200	0.75334
0.28480	-1.77193	1.63288	-0.16512	-1.88300	0.77696	-0.00235	1.20621	0.70208	-0.00065	0.74575
0.29150	-1.87241	1.63412	-0.16980	-1.86566	0.78080	-0.00237	1.17107	0.70492	0.00085	0.73740
0.29836	-1.94975	1.63698	-0.17468	-1.85483	0.78934	-0.00240	1.15152	0.70602	0.00216	0.73057

0.30539	-2.00587	1.64139	-0.17991	-1.84984	0.79949	-0.00241	1.14533	0.70571	0.00306	0.72633
0.31257	-2.04984	1.64727	-0.18509	-1.84869	0.80932	-0.00243	1.14713	0.70468	0.00377	0.72288
0.31993	-2.09510	1.65361	-0.18971	-1.84794	0.82168	-0.00246	1.15092	0.70326	0.00446	0.71924
0.32745	-2.15983	1.65847	-0.19397	-1.84256	0.83704	-0.00250	1.14551	0.70230	0.00501	0.71647
0.33517	-2.25959	1.66008	-0.19856	-1.82806	0.84848	-0.00256	1.11658	0.70344	0.00547	0.71450
0.34304	-2.39574	1.65733	-0.20383	-1.80288	0.84589	-0.00257	1.05968	0.70783	0.00607	0.71145
0.35112	-2.54441	1.65242	-0.20941	-1.77286	0.82997	-0.00255	0.99437	0.71400	0.00689	0.70671
0.35938	-2.67282	1.64919	-0.21484	-1.74758	0.81184	-0.00252	0.94464	0.71911	0.00762	0.70246
0.36784	-2.77296	1.64957	-0.22019	-1.73115	0.80059	-0.00250	0.91483	0.72198	0.00826	0.69915
0.37649	-2.84788	1.65267	-0.22572	-1.72274	0.79767	-0.00248	0.90074	0.72256	0.00920	0.69450
0.38536	-2.90846	1.65629	-0.23150	-1.71800	0.79942	-0.00247	0.89453	0.72169	0.01050	0.68778
0.39442	-2.97890	1.65885	-0.23727	-1.71088	0.80083	-0.00246	0.88147	0.72146	0.01185	0.68067
0.40370	-3.07852	1.65975	-0.24289	-1.69716	0.79857	-0.00245	0.85193	0.72336	0.01290	0.67492
0.41321	-3.19499	1.65962	-0.24859	-1.67921	0.79500	-0.00244	0.81656	0.72605	0.01359	0.67114
0.42292	-3.28685	1.65983	-0.25476	-1.66582	0.79444	-0.00243	0.79819	0.72614	0.01384	0.67028
0.43288	-3.33537	1.66129	-0.26143	-1.66182	0.79838	-0.00243	0.80440	0.72234	0.01382	0.67195
0.44307	-3.35423	1.66420	-0.26817	-1.66550	0.80658	-0.00241	0.82702	0.71597	0.01398	0.67344
0.45349	-3.37691	1.66813	-0.27461	-1.67028	0.81722	-0.00240	0.84831	0.70986	0.01461	0.67247
0.46417	-3.42548	1.67111	-0.28095	-1.66937	0.82679	-0.00240	0.85542	0.70577	0.01544	0.67010
0.47508	-3.50575	1.67163	-0.28736	-1.65936	0.83081	-0.00239	0.84486	0.70419	0.01581	0.67016
0.48626	-3.61101	1.67123	-0.29368	-1.64272	0.82866	-0.00239	0.82223	0.70466	0.01536	0.67500
0.49771	-3.72940	1.67240	-0.29967	-1.62458	0.82386	-0.00239	0.79555	0.70633	0.01441	0.68314
0.50942	-3.84367	1.67640	-0.30522	-1.61007	0.82210	-0.00239	0.77504	0.70745	0.01354	0.69114
0.52140	-3.93335	1.68267	-0.31042	-1.60293	0.82924	-0.00241	0.77154	0.70570	0.01316	0.69633
0.53367	-3.97941	1.68950	-0.31572	-1.60505	0.84620	-0.00244	0.79428	0.69925	0.01340	0.69800
0.54624	-3.98380	1.69605	-0.32151	-1.61474	0.86596	-0.00246	0.84133	0.68910	0.01422	0.69611
0.55910	-3.97079	1.70278	-0.32768	-1.62748	0.87977	-0.00246	0.89891	0.67833	0.01553	0.69111
0.57225	-3.97840	1.71008	-0.33368	-1.63687	0.88328	-0.00243	0.94335	0.67033	0.01713	0.68415
0.58569	-4.02861	1.71712	-0.33905	-1.63853	0.87774	-0.00238	0.95981	0.66629	0.01863	0.67752
0.59948	-4.12204	1.72237	-0.34381	-1.63080	0.86875	-0.00235	0.94916	0.66533	0.01967	0.67352
0.61357	-4.24040	1.72564	-0.34821	-1.61641	0.86316	-0.00234	0.92495	0.66563	0.02001	0.67385
0.62802	-4.38656	1.72767	-0.35232	-1.59486	0.86135	-0.00236	0.88638	0.66773	0.01963	0.67856
0.64280	-4.57948	1.72868	-0.35608	-1.56228	0.85732	-0.00239	0.82070	0.67422	0.01889	0.68545
0.65794	-4.82990	1.72905	-0.35945	-1.51694	0.84475	-0.00244	0.72331	0.68726	0.01826	0.69121
0.67340	-5.11712	1.72947	-0.36263	-1.46396	0.82315	-0.00247	0.61138	0.70597	0.01815	0.69345
0.68927	-5.38623	1.73073	-0.36613	-1.41555	0.79883	-0.00249	0.51756	0.72461	0.01844	0.69319
0.70547	-5.58747	1.73359	-0.37027	-1.38300	0.78018	-0.00248	0.46241	0.73616	0.01890	0.69225
0.72207	-5.72507	1.73799	-0.37469	-1.36567	0.77147	-0.00247	0.43970	0.73925	0.01934	0.69195
0.73910	-5.83158	1.74294	-0.37885	-1.35575	0.77182	-0.00247	0.43374	0.73709	0.01961	0.69315
0.75649	-5.92908	1.74782	-0.38260	-1.34768	0.77733	-0.00248	0.43435	0.73267	0.01978	0.69522
0.77429	-6.02716	1.75260	-0.38618	-1.33925	0.78312	-0.00250	0.43661	0.72772	0.02004	0.69635
0.79246	-6.13155	1.75785	-0.38976	-1.32983	0.78413	-0.00251	0.43652	0.72382	0.02062	0.69430
0.81116	-6.25014	1.76424	-0.39337	-1.31853	0.77760	-0.00249	0.43017	0.72236	0.02150	0.68867
0.83022	-6.38914	1.77168	-0.39662	-1.30383	0.76484	-0.00247	0.41432	0.72440	0.02226	0.68202
0.84976	-6.55526	1.78046	-0.39915	-1.28473	0.74870	-0.00246	0.38756	0.73065	0.02272	0.67607
0.86972	-6.74928	1.79116	-0.40083	-1.26189	0.73132	-0.00245	0.35175	0.74121	0.02307	0.67022
0.89023	-6.96908	1.80352	-0.40182	-1.23569	0.71305	-0.00246	0.30977	0.75582	0.02347	0.66426
0.91116	-7.19595	1.81620	-0.40246	-1.20865	0.69425	-0.00247	0.26847	0.77231	0.02370	0.66047
0.93257	-7.39952	1.82837	-0.40332	-1.18618	0.67769	-0.00247	0.23746	0.78569	0.02344	0.66127
0.95456	-7.56045	1.83968	-0.40496	-1.17209	0.66619	-0.00246	0.22154	0.79141	0.02272	0.66661
0.97704	-7.68558	1.84984	-0.40746	-1.16479	0.65947	-0.00246	0.21755	0.78956	0.02196	0.67361
1.00000	-7.79259	1.85855	-0.41051	-1.16027	0.65628	-0.00245	0.22025	0.78281	0.02145	0.68023
1.02354	-7.89093	1.86620	-0.41374	-1.15683	0.65714	-0.00244	0.22733	0.77284	0.02106	0.68708
1.04767	-7.98464	1.87402	-0.41680	-1.15481	0.66384	-0.00246	0.23818	0.76068	0.02058	0.69542
1.07227	-8.07608	1.88323	-0.41968	-1.15503	0.67711	-0.00248	0.25264	0.74711	0.01998	0.70496
1.09745	-8.16656	1.89437	-0.42247	-1.15786	0.69553	-0.00252	0.27101	0.73244	0.01942	0.71425
1.12334	-8.25923	1.90705	-0.42511	-1.16219	0.71565	-0.00256	0.29214	0.71753	0.01894	0.72266
1.14982	-8.35594	1.92037	-0.42744	-1.16641	0.73352	-0.00258	0.31385	0.70348	0.01850	0.73031
1.17675	-8.45748	1.93356	-0.42945	-1.16929	0.74583	-0.00259	0.33395	0.69106	0.01812	0.73704
1.20453	-8.57273	1.94600	-0.43121	-1.16844	0.74953	-0.00258	0.34787	0.68138	0.01792	0.74203
1.23289	-8.70640	1.95702	-0.43272	-1.16204	0.74339	-0.00255	0.35128	0.67548	0.01798	0.74469
1.26183	-8.86088	1.96661	-0.43384	-1.14946	0.72915	-0.00250	0.34221	0.67394	0.01812	0.74625
1.29149	-9.03736	1.97514	-0.43438	-1.13073	0.70986	-0.00246	0.32063	0.67720	0.01812	0.74862
1.32188	-9.23222	1.98302	-0.43435	-1.10699	0.68822	-0.00242	0.28952	0.68508	0.01781	0.75312
1.35300	-9.43286	1.99066	-0.43398	-1.08142	0.66691	-0.00240	0.25646	0.69536	0.01712	0.76033
1.38485	-9.63136	1.99861	-0.43351	-1.05644	0.64762	-0.00239	0.22626	0.70618	0.01620	0.76937
1.41743	-9.82400	2.00744	-0.43303	-1.03361	0.63221	-0.00239	0.20062	0.71657	0.01535	0.77854
1.45075	-10.00636	2.01730	-0.43253	-1.01416	0.62258	-0.00241	0.18054	0.72538	0.01470	0.78718
1.48500	-10.17511	2.02806	-0.43204	-0.99875	0.61912	-0.00244	0.16667	0.73118	0.01420	0.79579
1.51999	-10.32530	2.03954	-0.43165	-0.98825	0.62183	-0.00248	0.16016	0.73202	0.01380	0.80447
1.55569	-10.45734	2.05198	-0.43145	-0.98302	0.62970	-0.00253	0.16127	0.72702	0.01364	0.81225
1.59236	-10.57656	2.06583	-0.43135	-0.98267	0.64100	-0.00257	0.16934	0.71687	0.01388	0.81774
1.62973	-10.68226	2.08089	-0.43123	-0.98730	0.65490	-0.00260	0.18517	0.70170	0.01451	0.82092
1.66806	-10.77538	2.09661	-0.43096	-0.99612	0.67031	-0.00263	0.20964	0.68212	0.01526	0.82345
1.70736	-10.86369	2.11225	-0.43035	-1.00646	0.68490	-0.00264	0.24019	0.66086	0.01591	0.82692
1.74764	-10.95838	2.12730	-0.42933	-1.01512	0.69621	-0.00264	0.27157	0.64096	0.01635	0.83203
1.78859	-11.06926	2.14142	-0.42787	-1.01946	0.70280	-0.00265	0.29710	0.62476	0.01660	0.83854
1.83083	-11.20405	2.15489	-0.42593	-1.01835	0.70447	-0.00265	0.31253	0.61287	0.01675	0.84577
1.87371	-11.35723	2.16771	-0.42362	-1.01284	0.70231	-0.00265	0.31873	0.60425	0.01692	0.85279
1.91791	-11.52018	2.18021	-0.42099	-1.00552	0.69883	-0.00266	0.32225	0.59600	0.01714	0.85932
1.96309	-11.68159	2.19233	-0.41814	-0.99874	0.69590	-0.00266	0.32971	0.58562	0.01742	0.86529

2.00924	-11.83155	2.20406	-0.41519	-0.99470	0.69485	-0.00266	0.34855	0.57057	0.01777	0.87049
2.05634	-11.96457	2.21543	-0.41216	-0.99460	0.69598	-0.00265	0.38462	0.54981	0.01822	0.87464
2.10482	-12.08370	2.22650	-0.40891	-0.99781	0.69907	-0.00264	0.44053	0.52422	0.01875	0.87796
2.15424	-12.19179	2.23715	-0.40532	-1.00323	0.70464	-0.00262	0.51655	0.49583	0.01922	0.88106
2.20507	-12.29778	2.24748	-0.40125	-1.00891	0.71185	-0.00261	0.60901	0.46691	0.01947	0.88492
2.25683	-12.40601	2.25741	-0.39673	-1.01351	0.71945	-0.00261	0.71290	0.43909	0.01943	0.89007
2.31000	-12.52173	2.26721	-0.39177	-1.01630	0.72643	-0.00261	0.82474	0.41283	0.01920	0.89592
2.36463	-12.64575	2.27721	-0.38643	-1.01748	0.73264	-0.00262	0.94375	0.38802	0.01901	0.90107
2.42014	-12.77506	2.28760	-0.38082	-1.01783	0.73833	-0.00263	1.07096	0.36455	0.01904	0.90447
2.47709	-12.90847	2.29872	-0.37489	-1.01818	0.74394	-0.00263	1.20913	0.34218	0.01932	0.90615
2.53550	-13.04361	2.31073	-0.36870	-1.01920	0.74997	-0.00263	1.35806	0.32119	0.01981	0.90645
2.59471	-13.17726	2.32346	-0.36236	-1.02110	0.75692	-0.00262	1.51389	0.30210	0.02041	0.90608
2.65604	-13.31054	2.33693	-0.35583	-1.02387	0.76539	-0.00262	1.67838	0.28459	0.02101	0.90609
2.71887	-13.44298	2.35083	-0.34931	-1.02680	0.77495	-0.00262	1.84202	0.26922	0.02149	0.90723
2.78242	-13.57470	2.36484	-0.34300	-1.02914	0.78471	-0.00262	1.99312	0.25640	0.02183	0.90983
2.84819	-13.70900	2.37913	-0.33689	-1.03064	0.79426	-0.00262	2.12779	0.24590	0.02200	0.91433
2.91545	-13.84393	2.39352	-0.33116	-1.03120	0.80309	-0.00262	2.24073	0.23764	0.02204	0.92073
2.98329	-13.97671	2.40776	-0.32592	-1.03105	0.81105	-0.00262	2.32930	0.23160	0.02197	0.92860
3.05344	-14.10923	2.42224	-0.32110	-1.03050	0.81857	-0.00262	2.39837	0.22721	0.02185	0.93763
3.12598	-14.24079	2.43691	-0.31666	-1.02977	0.82576	-0.00262	2.44918	0.22433	0.02170	0.94737
3.19898	-14.36664	2.45135	-0.31276	-1.02912	0.83265	-0.00262	2.48526	0.22263	0.02153	0.95715
3.27439	-14.48937	2.46590	-0.30924	-1.02880	0.83966	-0.00261	2.51163	0.22183	0.02133	0.96682
3.35121	-14.60620	2.48027	-0.30616	-1.02895	0.84692	-0.00260	2.53271	0.22159	0.02110	0.97612
3.43053	-14.71850	2.49467	-0.30338	-1.02979	0.85478	-0.00259	2.55275	0.22170	0.02081	0.98530
3.51124	-14.82475	2.50883	-0.30094	-1.03121	0.86316	-0.00259	2.57379	0.22188	0.02047	0.99441
3.59324	-14.92685	2.52280	-0.29869	-1.03311	0.87182	-0.00258	2.59403	0.22222	0.02009	1.00353
3.67782	-15.02760	2.53674	-0.29664	-1.03507	0.88033	-0.00257	2.61295	0.22242	0.01965	1.01314
3.76506	-15.12998	2.55067	-0.29449	-1.03709	0.88843	-0.00256	2.62735	0.22276	0.01917	1.02322
3.85356	-15.22973	2.56436	-0.29251	-1.03910	0.89579	-0.00255	2.64435	0.22252	0.01867	1.03387
3.94477	-15.33312	2.57794	-0.29017	-1.04114	0.90202	-0.00253	2.65945	0.22221	0.01814	1.04453
4.03714	-15.43337	2.59133	-0.28787	-1.04347	0.90744	-0.00251	2.68618	0.22083	0.01764	1.05513
4.13223	-15.53429	2.60432	-0.28519	-1.04613	0.91210	-0.00249	2.72632	0.21854	0.01713	1.06538
4.23012	-15.63719	2.61727	-0.28208	-1.04909	0.91599	-0.00247	2.78275	0.21513	0.01668	1.07476
4.32900	-15.73761	2.62951	-0.27895	-1.05163	0.91914	-0.00245	2.85379	0.21044	0.01629	1.08327
4.43066	-15.84754	2.64108	-0.27507	-1.05308	0.92127	-0.00243	2.92489	0.20554	0.01594	1.09045
4.53515	-15.95881	2.65238	-0.27103	-1.05386	0.92270	-0.00241	3.01360	0.19913	0.01570	1.09669
4.64253	-16.07284	2.66255	-0.26676	-1.05353	0.92350	-0.00239	3.10955	0.19202	0.01549	1.10234
4.75059	-16.19470	2.67163	-0.26185	-1.05176	0.92359	-0.00238	3.20396	0.18479	0.01534	1.10680
4.86145	-16.31344	2.68037	-0.25698	-1.04971	0.92359	-0.00237	3.32719	0.17576	0.01536	1.11055
4.97760	-16.43705	2.68799	-0.25180	-1.04667	0.92328	-0.00237	3.45177	0.16681	0.01542	1.11391
5.09424	-16.56641	2.69451	-0.24605	-1.04246	0.92256	-0.00237	3.57320	0.15818	0.01557	1.11622
5.21376	-16.69092	2.70107	-0.24036	-1.03842	0.92183	-0.00237	3.73074	0.14784	0.01592	1.11799
5.33618	-16.81438	2.70648	-0.23473	-1.03401	0.92046	-0.00237	3.87516	0.13866	0.01627	1.11978
5.46150	-16.94403	2.71063	-0.22859	-1.02870	0.91828	-0.00237	3.99461	0.13108	0.01658	1.12131
5.58971	-17.07070	2.71525	-0.22245	-1.02363	0.91573	-0.00237	4.14154	0.12235	0.01702	1.12276
5.72082	-17.19078	2.71962	-0.21669	-1.01922	0.91318	-0.00237	4.28440	0.11436	0.01746	1.12473
5.85823	-17.31528	2.72214	-0.21063	-1.01447	0.90983	-0.00236	4.35918	0.11007	0.01771	1.12731
5.99520	-17.43723	2.72507	-0.20447	-1.01009	0.90613	-0.00236	4.43047	0.10617	0.01794	1.13014
6.13497	-17.55580	2.72931	-0.19857	-1.00637	0.90277	-0.00235	4.52003	0.10158	0.01822	1.13344
6.28141	-17.67124	2.73222	-0.19303	-1.00301	0.89979	-0.00234	4.54436	0.10030	0.01832	1.13755
6.42674	-17.78208	2.73362	-0.18754	-1.00000	0.89677	-0.00234	4.49155	0.10292	0.01815	1.14228
6.57895	-17.89684	2.73671	-0.18181	-0.99749	0.89405	-0.00233	4.44612	0.10536	0.01791	1.14780
6.73401	-18.01134	2.74166	-0.17635	-0.99547	0.89203	-0.00233	4.41923	0.10691	0.01766	1.15390
6.89180	-18.11392	2.74413	-0.17167	-0.99396	0.89039	-0.00232	4.33094	0.11165	0.01718	1.16088
7.05716	-18.21211	2.74485	-0.16700	-0.99315	0.88903	-0.00232	4.17622	0.12028	0.01633	1.16929
7.22022	-18.31048	2.74769	-0.16233	-0.99295	0.88853	-0.00231	4.04432	0.12811	0.01543	1.17799
7.39098	-18.41781	2.75343	-0.15744	-0.99300	0.88870	-0.00230	3.94088	0.13454	0.01454	1.18688
7.56430	-18.51368	2.75761	-0.15329	-0.99342	0.88924	-0.00229	3.84879	0.14064	0.01373	1.19520
7.73994	-18.58608	2.75701	-0.14987	-0.99504	0.89018	-0.00229	3.72325	0.14961	0.01273	1.20373
7.92393	-18.66573	2.75836	-0.14603	-0.99712	0.89159	-0.00229	3.60377	0.15862	0.01164	1.21249
8.11030	-18.75365	2.76230	-0.14193	-0.99916	0.89320	-0.00228	3.50556	0.16637	0.01061	1.22068
8.29876	-18.85539	2.76982	-0.13751	-1.00067	0.89487	-0.00227	3.43364	0.17213	0.00974	1.22796
8.49618	-18.93554	2.77266	-0.13419	-1.00249	0.89642	-0.00226	3.36817	0.17789	0.00899	1.23456
8.69565	-18.98735	2.76997	-0.13177	-1.00530	0.89803	-0.00226	3.29399	0.18503	0.00818	1.24122
8.90472	-19.05621	2.77088	-0.12860	-1.00803	0.89988	-0.00225	3.22741	0.19157	0.00736	1.24801
9.11577	-19.13267	2.77375	-0.12520	-1.01051	0.90173	-0.00225	3.17076	0.19725	0.00661	1.25448
9.32836	-19.23394	2.78198	-0.12088	-1.01229	0.90354	-0.00223	3.12252	0.20180	0.00593	1.26067
9.54198	-19.32588	2.78861	-0.11735	-1.01369	0.90514	-0.00222	3.08718	0.20529	0.00542	1.26631
9.76563	-19.36498	2.78439	-0.11600	-1.01630	0.90671	-0.00222	3.05540	0.20956	0.00494	1.27242
10.00000	-19.40925	2.78114	-0.11427	-1.01914	0.90843	-0.00222	3.02252	0.21401	0.00440	1.27947

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
High stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 6 - 15 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.92867	3.40094	-0.04352	-1.65750	0.98625	-0.00101	0.98330	0.47025	-0.01287	0.30814
PGV	14.70655	1.97456	-0.01452	-4.90141	1.96461	0.00040	29.41793	0.21199	-0.04918	0.69689
PGA	0.28739	1.50903	-0.03220	-2.24526	0.82859	-0.00294	2.89519	0.52539	-0.03004	0.79129
0.01000	1.20715	1.54582	-0.02455	-2.44491	0.81123	-0.00262	3.63450	0.50717	-0.00894	0.78594
0.01024	1.23596	1.54921	-0.02335	-2.45242	0.80585	-0.00260	3.64275	0.50806	-0.00908	0.78798
0.01048	1.26785	1.55258	-0.02216	-2.46046	0.80035	-0.00257	3.65351	0.50887	-0.00921	0.78997
0.01072	1.30057	1.55590	-0.02099	-2.46853	0.79447	-0.00255	3.66419	0.50969	-0.00933	0.79186
0.01097	1.33191	1.55916	-0.01983	-2.47626	0.78818	-0.00252	3.67206	0.51059	-0.00944	0.79372
0.01123	1.36198	1.56239	-0.01864	-2.48369	0.78168	-0.00250	3.67719	0.51159	-0.00957	0.79568
0.01150	1.39214	1.56561	-0.01743	-2.49110	0.77510	-0.00248	3.68126	0.51262	-0.00973	0.79787
0.01177	1.42400	1.56887	-0.01619	-2.49882	0.76850	-0.00245	3.68599	0.51363	-0.00993	0.80028
0.01205	1.46045	1.57223	-0.01494	-2.50744	0.76193	-0.00243	3.69468	0.51453	-0.01015	0.80284
0.01233	1.50395	1.57564	-0.01369	-2.51738	0.75550	-0.00240	3.71075	0.51520	-0.01040	0.80555
0.01262	1.55425	1.57906	-0.01247	-2.52852	0.74925	-0.00237	3.73457	0.51560	-0.01063	0.80816
0.01292	1.60462	1.58243	-0.01129	-2.53957	0.74300	-0.00234	3.75889	0.51598	-0.01079	0.81023
0.01322	1.64423	1.58559	-0.01010	-2.54840	0.73634	-0.00232	3.77188	0.51670	-0.01082	0.81147
0.01353	1.66806	1.58845	-0.00889	-2.55399	0.72917	-0.00230	3.76827	0.51790	-0.01074	0.81189
0.01385	1.68084	1.59107	-0.00767	-2.55730	0.72187	-0.00228	3.75319	0.51944	-0.01057	0.81174
0.01417	1.68870	1.59364	-0.00645	-2.55970	0.71500	-0.00227	3.73260	0.52112	-0.01037	0.81139
0.01451	1.68979	1.59627	-0.00520	-2.56103	0.70855	-0.00226	3.70374	0.52305	-0.01020	0.81120
0.01485	1.68299	1.59899	-0.00388	-2.56110	0.70216	-0.00225	3.66504	0.52530	-0.01009	0.81146
0.01520	1.67690	1.60187	-0.00249	-2.56144	0.69560	-0.00224	3.62591	0.52761	-0.01006	0.81234
0.01556	1.68521	1.60491	-0.00114	-2.56438	0.68866	-0.00223	3.60153	0.52952	-0.01011	0.81385
0.01592	1.71854	1.60807	0.00010	-2.57165	0.68116	-0.00221	3.60424	0.53060	-0.01023	0.81595
0.01630	1.77795	1.61122	0.00118	-2.58330	0.67320	-0.00218	3.63626	0.53076	-0.01038	0.81838
0.01668	1.85116	1.61426	0.00212	-2.59709	0.66490	-0.00214	3.68490	0.53040	-0.01049	0.82065
0.01707	1.91860	1.61717	0.00301	-2.60961	0.65653	-0.00211	3.72847	0.53021	-0.01051	0.82230
0.01748	1.96942	1.62003	0.00394	-2.61912	0.64857	-0.00209	3.75417	0.53056	-0.01042	0.82320
0.01789	2.00672	1.62297	0.00496	-2.62635	0.64122	-0.00207	3.76441	0.53138	-0.01023	0.82346
0.01831	2.02968	1.62593	0.00611	-2.63110	0.63383	-0.00206	3.75755	0.53273	-0.00998	0.82339
0.01874	2.02559	1.62873	0.00742	-2.63093	0.62537	-0.00205	3.71976	0.53508	-0.00969	0.82313
0.01918	1.99293	1.63127	0.00888	-2.62546	0.61542	-0.00204	3.65030	0.53847	-0.00934	0.82241
0.01963	1.95500	1.63362	0.01041	-2.61890	0.60475	-0.00204	3.57571	0.54207	-0.00890	0.82119
0.02009	1.93158	1.63587	0.01190	-2.61478	0.59438	-0.00203	3.51841	0.54511	-0.00845	0.81993
0.02057	1.91862	1.63795	0.01326	-2.61218	0.58449	-0.00202	3.47519	0.54766	-0.00805	0.81908
0.02105	1.90478	1.63974	0.01447	-2.60891	0.57480	-0.00201	3.43472	0.55010	-0.00775	0.81889
0.02154	1.89147	1.64137	0.01548	-2.60532	0.56520	-0.00201	3.39783	0.55243	-0.00751	0.81915
0.02205	1.88432	1.64311	0.01634	-2.60263	0.55569	-0.00200	3.36951	0.55451	-0.00726	0.81934
0.02257	1.87838	1.64509	0.01721	-2.60012	0.54655	-0.00200	3.34475	0.55653	-0.00694	0.81902
0.02310	1.86542	1.64734	0.01825	-2.59650	0.53838	-0.00201	3.31519	0.55875	-0.00653	0.81809
0.02364	1.84058	1.64983	0.01947	-2.59104	0.53116	-0.00202	3.27506	0.56135	-0.00603	0.81655
0.02420	1.79817	1.65231	0.02080	-2.58255	0.52409	-0.00203	3.21839	0.56457	-0.00543	0.81428
0.02477	1.73903	1.65439	0.02214	-2.57086	0.51684	-0.00205	3.14647	0.56833	-0.00478	0.81165
0.02535	1.67841	1.65600	0.02334	-2.55865	0.50967	-0.00207	3.07357	0.57210	-0.00416	0.80916
0.02595	1.63483	1.65736	0.02425	-2.54945	0.50291	-0.00208	3.01598	0.57523	-0.00358	0.80691
0.02656	1.61631	1.65881	0.02483	-2.54492	0.49678	-0.00209	2.98034	0.57747	-0.00302	0.80481
0.02719	1.61368	1.66057	0.02525	-2.54349	0.49135	-0.00209	2.95904	0.57915	-0.00250	0.80311
0.02783	1.60996	1.66257	0.02574	-2.54191	0.48604	-0.00209	2.93831	0.58086	-0.00207	0.80215
0.02848	1.59380	1.66462	0.02644	-2.53790	0.47997	-0.00210	2.90883	0.58300	-0.00176	0.80211
0.02915	1.55950	1.66654	0.02732	-2.53032	0.47321	-0.00211	2.86587	0.58576	-0.00153	0.80266
0.02984	1.50114	1.66801	0.02833	-2.51800	0.46685	-0.00213	2.80509	0.58925	-0.00127	0.80296
0.03054	1.41708	1.66873	0.02949	-2.50048	0.46171	-0.00217	2.72694	0.59340	-0.00091	0.80243
0.03126	1.30984	1.66868	0.03081	-2.47810	0.45756	-0.00221	2.63491	0.59816	-0.00045	0.80093
0.03199	1.18231	1.66796	0.03225	-2.45144	0.45340	-0.00226	2.53087	0.60356	0.00016	0.79831
0.03275	1.04876	1.66687	0.03371	-2.42338	0.44862	-0.00232	2.42495	0.60924	0.00093	0.79454
0.03352	0.92932	1.66580	0.03506	-2.39792	0.44313	-0.00236	2.33173	0.61452	0.00180	0.79014
0.03430	0.83640	1.66496	0.03626	-2.37742	0.43693	-0.00239	2.25980	0.61888	0.00263	0.78609
0.03511	0.77465	1.66438	0.03718	-2.36258	0.43042	-0.00241	2.21241	0.62207	0.00335	0.78303
0.03594	0.74628	1.66415	0.03768	-2.35376	0.42481	-0.00243	2.19154	0.62386	0.00392	0.78106
0.03678	0.74559	1.66432	0.03777	-2.35004	0.42129	-0.00244	2.19313	0.62438	0.00433	0.78016
0.03765	0.75015	1.66463	0.03761	-2.34737	0.42006	-0.00246	2.19979	0.62452	0.00460	0.78018
0.03854	0.73039	1.66470	0.03744	-2.34033	0.42020	-0.00249	2.18776	0.62560	0.00474	0.78095
0.03944	0.66979	1.66434	0.03741	-2.32588	0.42012	-0.00253	2.14364	0.62842	0.00476	0.78249
0.04037	0.57240	1.66348	0.03765	-2.30465	0.41855	-0.00257	2.07121	0.63294	0.00461	0.78517
0.04132	0.44972	1.66216	0.03821	-2.27874	0.41537	-0.00262	1.98020	0.63874	0.00427	0.78908
0.04229	0.30855	1.66026	0.03910	-2.24946	0.41177	-0.00266	1.87673	0.64550	0.00386	0.79352
0.04329	0.15371	1.65759	0.04022	-2.21748	0.40917	-0.00272	1.76590	0.65295	0.00355	0.79735
0.04431	-0.00158	1.65410	0.04136	-2.18501	0.40838	-0.00277	1.65825	0.66041	0.00349	0.79946
0.04535	-0.13720	1.65039	0.04230	-2.15604	0.40978	-0.00282	1.56753	0.66689	0.00377	0.79926

0.04642	-0.23600	1.64735	0.04285	-2.13439	0.41374	-0.00287	1.50383	0.67147	0.00436	0.79687
0.04751	-0.29540	1.64554	0.04296	-2.12087	0.42001	-0.00292	1.46773	0.67396	0.00515	0.79308
0.04863	-0.32575	1.64476	0.04269	-2.11321	0.42750	-0.00296	1.45237	0.67486	0.00596	0.78901
0.04977	-0.34577	1.64440	0.04222	-2.10731	0.43458	-0.00299	1.44588	0.67514	0.00673	0.78515
0.05094	-0.37385	1.64401	0.04172	-2.09951	0.44000	-0.00303	1.43633	0.67582	0.00747	0.78125
0.05214	-0.41849	1.64334	0.04129	-2.08829	0.44363	-0.00307	1.41766	0.67737	0.00822	0.77701
0.05337	-0.47636	1.64236	0.04083	-2.07459	0.44569	-0.00310	1.39057	0.67968	0.00906	0.77199
0.05462	-0.53941	1.64108	0.04013	-2.06010	0.44569	-0.00313	1.35860	0.68245	0.01000	0.76610
0.05591	-0.60372	1.63922	0.03916	-2.04517	0.44301	-0.00314	1.32425	0.68546	0.01087	0.76058
0.05722	-0.66828	1.63643	0.03801	-2.02933	0.43826	-0.00315	1.28962	0.68852	0.01144	0.75708
0.05857	-0.72961	1.63252	0.03668	-2.01273	0.43331	-0.00316	1.25820	0.69122	0.01159	0.75649
0.05995	-0.78453	1.62760	0.03516	-1.99591	0.42996	-0.00317	1.23237	0.69328	0.01140	0.75854
0.06136	-0.83818	1.62196	0.03350	-1.97828	0.42868	-0.00320	1.20870	0.69506	0.01107	0.76197
0.06280	-0.90036	1.61596	0.03176	-1.95863	0.42877	-0.00323	1.18053	0.69728	0.01081	0.76524
0.06428	-0.97844	1.60992	0.03000	-1.93615	0.42921	-0.00327	1.14287	0.70057	0.01076	0.76730
0.06579	-1.07516	1.60400	0.02831	-1.91064	0.42933	-0.00331	1.09424	0.70525	0.01096	0.76776
0.06734	-1.19083	1.59823	0.02689	-1.88219	0.42900	-0.00335	1.03516	0.71142	0.01134	0.76676
0.06893	-1.32450	1.59251	0.02591	-1.85097	0.42900	-0.00340	0.96734	0.71906	0.01180	0.76510
0.07055	-1.47185	1.58670	0.02544	-1.81772	0.43075	-0.00346	0.89447	0.72788	0.01217	0.76382
0.07221	-1.62170	1.58096	0.02537	-1.78455	0.43550	-0.00352	0.82333	0.73710	0.01240	0.76323
0.07391	-1.75922	1.57566	0.02541	-1.75442	0.44350	-0.00359	0.76125	0.74563	0.01259	0.76256
0.07565	-1.87381	1.57133	0.02533	-1.72958	0.45376	-0.00366	0.71254	0.75260	0.01283	0.76119
0.07743	-1.96032	1.56813	0.02492	-1.71090	0.46461	-0.00371	0.67846	0.75753	0.01309	0.75938
0.07925	-2.01999	1.56582	0.02407	-1.69777	0.47464	-0.00375	0.65731	0.76045	0.01333	0.75760
0.08111	-2.05565	1.56422	0.02269	-1.68950	0.48334	-0.00378	0.64709	0.76153	0.01361	0.75576
0.08302	-2.07128	1.56347	0.02079	-1.68555	0.49099	-0.00379	0.64587	0.76104	0.01402	0.75336
0.08498	-2.07124	1.56363	0.01841	-1.68532	0.49805	-0.00380	0.65174	0.75931	0.01457	0.75015
0.08697	-2.06169	1.56433	0.01562	-1.68742	0.50483	-0.00379	0.66188	0.75682	0.01523	0.74634
0.08902	-2.04760	1.56494	0.01251	-1.69041	0.51138	-0.00378	0.67377	0.75399	0.01594	0.74232
0.09112	-2.03352	1.56490	0.00920	-1.69290	0.51732	-0.00377	0.68511	0.75117	0.01657	0.73886
0.09326	-2.02298	1.56381	0.00581	-1.69383	0.52229	-0.00376	0.69444	0.74861	0.01699	0.73684
0.09545	-2.01773	1.56150	0.00245	-1.69257	0.52638	-0.00375	0.70124	0.74636	0.01711	0.73697
0.09770	-2.01860	1.55791	-0.00086	-1.68886	0.52972	-0.00373	0.70521	0.74447	0.01692	0.73937
0.10000	-2.02639	1.55301	-0.00413	-1.68249	0.53255	-0.00372	0.70598	0.74299	0.01647	0.74370
0.10235	-2.04185	1.54691	-0.00735	-1.67350	0.53516	-0.00372	0.70302	0.74200	0.01587	0.74931
0.10476	-2.06501	1.53990	-0.01052	-1.66218	0.53763	-0.00371	0.69625	0.74156	0.01524	0.75530
0.10723	-2.09267	1.53253	-0.01368	-1.64967	0.54040	-0.00371	0.68732	0.74144	0.01467	0.76089
0.10975	-2.12240	1.52530	-0.01683	-1.63692	0.54398	-0.00371	0.67757	0.74147	0.01421	0.76568
0.11233	-2.15372	1.51847	-0.01992	-1.62434	0.54871	-0.00371	0.66716	0.74165	0.01387	0.76954
0.11498	-2.18514	1.51188	-0.02302	-1.61209	0.55472	-0.00372	0.65664	0.74184	0.01360	0.77270
0.11768	-2.21669	1.50541	-0.02615	-1.60008	0.56170	-0.00372	0.64579	0.74207	0.01345	0.77500
0.12045	-2.24889	1.49927	-0.02935	-1.58844	0.56920	-0.00373	0.63431	0.74245	0.01355	0.77559
0.12328	-2.27962	1.49367	-0.03259	-1.57785	0.57758	-0.00373	0.62325	0.74278	0.01387	0.77450
0.12619	-2.30464	1.48880	-0.03585	-1.56925	0.58708	-0.00374	0.61468	0.74266	0.01431	0.77252
0.12916	-2.31698	1.48475	-0.03925	-1.56400	0.59765	-0.00374	0.61177	0.74143	0.01475	0.77040
0.13219	-2.31578	1.48146	-0.04277	-1.56222	0.60936	-0.00373	0.61509	0.73895	0.01516	0.76835
0.13531	-2.30140	1.47909	-0.04639	-1.56406	0.62189	-0.00372	0.62476	0.73523	0.01568	0.76534
0.13849	-2.27379	1.47764	-0.05013	-1.56948	0.63476	-0.00370	0.64094	0.73034	0.01634	0.76127
0.14175	-2.23949	1.47607	-0.05395	-1.57612	0.64659	-0.00367	0.66040	0.72489	0.01696	0.75728
0.14508	-2.19783	1.47418	-0.05785	-1.58378	0.65817	-0.00365	0.68409	0.71870	0.01748	0.75375
0.14850	-2.14787	1.47238	-0.06181	-1.59309	0.66968	-0.00362	0.71284	0.71177	0.01807	0.74962
0.15199	-2.09626	1.47026	-0.06573	-1.60226	0.68072	-0.00359	0.74395	0.70461	0.01866	0.74553
0.15557	-2.04511	1.46764	-0.06961	-1.61067	0.69025	-0.00357	0.77641	0.69743	0.01915	0.74217
0.15923	-1.99938	1.46441	-0.07345	-1.61729	0.69730	-0.00354	0.80732	0.69069	0.01957	0.73954
0.16298	-1.95789	1.46091	-0.07734	-1.62270	0.70299	-0.00351	0.83767	0.68423	0.01989	0.73795
0.16681	-1.92052	1.45751	-0.08120	-1.62730	0.70812	-0.00348	0.86768	0.67801	0.02005	0.73780
0.17074	-1.88932	1.45447	-0.08499	-1.63110	0.71285	-0.00346	0.89612	0.67222	0.02005	0.73916
0.17475	-1.86641	1.45232	-0.08868	-1.63430	0.71744	-0.00344	0.92211	0.66700	0.02000	0.74129
0.17887	-1.85609	1.45095	-0.09227	-1.63602	0.72122	-0.00342	0.94293	0.66262	0.01993	0.74382
0.18307	-1.85746	1.45026	-0.09565	-1.63637	0.72507	-0.00342	0.95917	0.65891	0.01987	0.74643
0.18738	-1.86737	1.45011	-0.09878	-1.63573	0.73136	-0.00342	0.97346	0.65539	0.01975	0.74933
0.19179	-1.89629	1.44928	-0.10151	-1.63084	0.73849	-0.00345	0.97863	0.65279	0.01952	0.75292
0.19631	-1.93722	1.44845	-0.10418	-1.62389	0.74683	-0.00349	0.97824	0.65072	0.01933	0.75607
0.20092	-1.99402	1.44735	-0.10664	-1.61399	0.75337	-0.00353	0.96884	0.64962	0.01923	0.75823
0.20565	-2.05697	1.44660	-0.10922	-1.60377	0.75891	-0.00357	0.95585	0.64890	0.01933	0.75880
0.21049	-2.11178	1.44681	-0.11204	-1.59651	0.76512	-0.00361	0.94882	0.64740	0.01963	0.75763
0.21544	-2.16500	1.44657	-0.11489	-1.58959	0.76913	-0.00363	0.94255	0.64563	0.01975	0.75729
0.22051	-2.21579	1.44576	-0.11803	-1.58304	0.77238	-0.00365	0.93722	0.64350	0.01964	0.75814
0.22570	-2.26285	1.44531	-0.12153	-1.57795	0.77672	-0.00367	0.93429	0.64095	0.01940	0.75990
0.23101	-2.31381	1.44486	-0.12511	-1.57250	0.78007	-0.00369	0.92881	0.63865	0.01914	0.76159
0.23645	-2.36451	1.44501	-0.12889	-1.56817	0.78214	-0.00369	0.92355	0.63634	0.01899	0.76260
0.24201	-2.42415	1.44549	-0.13268	-1.56301	0.78070	-0.00368	0.91196	0.63489	0.01890	0.76317
0.24771	-2.48150	1.44782	-0.13651	-1.56060	0.77810	-0.00366	0.90350	0.63331	0.01883	0.76357
0.25354	-2.54231	1.44957	-0.14066	-1.55725	0.77255	-0.00363	0.89268	0.63190	0.01867	0.76468
0.25950	-2.60683	1.45111	-0.14497	-1.55307	0.76747	-0.00360	0.88140	0.63042	0.01865	0.76491
0.26561	-2.66309	1.45422	-0.14954	-1.55226	0.76372	-0.00356	0.87815	0.62802	0.01905	0.76229
0.27186	-2.71148	1.45831	-0.15435	-1.55429	0.76005	-0.00352	0.88186	0.62473	0.01947	0.75932
0.27826	-2.76623	1.46204	-0.15909	-1.55500	0.75555	-0.00348	0.88339	0.62154	0.01964	0.75766
0.28480	-2.82928	1.46330	-0.16396	-1.55178	0.74881	-0.00344	0.87983	0.61845	0.01933	0.75892
0.29150	-2.88985	1.46469	-0.16902	-1.54930	0.74080	-0.00338	0.87974	0.61482	0.01897	0.75994
0.29836	-2.94535	1.46679	-0.17426	-1.54854	0.73558	-0.00334	0.88569	0.61037	0.01864	0.76047

0.30539	-3.00158	1.46945	-0.17956	-1.54835	0.73100	-0.00330	0.89329	0.60570	0.01834	0.76038
0.31257	-3.06594	1.47161	-0.18483	-1.54630	0.72447	-0.00325	0.89633	0.60146	0.01813	0.75929
0.31993	-3.13499	1.47459	-0.19005	-1.54413	0.72007	-0.00321	0.89925	0.59730	0.01812	0.75662
0.32745	-3.21006	1.47749	-0.19526	-1.54076	0.71458	-0.00317	0.89985	0.59335	0.01825	0.75277
0.33517	-3.29466	1.47954	-0.20055	-1.53477	0.70744	-0.00313	0.89508	0.58984	0.01858	0.74760
0.34304	-3.38073	1.48299	-0.20583	-1.52984	0.70442	-0.00311	0.89276	0.58615	0.01942	0.73896
0.35112	-3.47266	1.48510	-0.21134	-1.52265	0.69862	-0.00307	0.88669	0.58251	0.02025	0.73046
0.35938	-3.56178	1.48728	-0.21701	-1.51610	0.69481	-0.00304	0.88413	0.57829	0.02126	0.72080
0.36784	-3.64524	1.49030	-0.22284	-1.51136	0.69509	-0.00302	0.88877	0.57316	0.02253	0.70938
0.37649	-3.72477	1.49335	-0.22878	-1.50746	0.69588	-0.00300	0.89791	0.56733	0.02392	0.69713
0.38536	-3.79880	1.49689	-0.23484	-1.50513	0.69928	-0.00298	0.91322	0.56075	0.02538	0.68441
0.39442	-3.86753	1.50046	-0.24100	-1.50377	0.70475	-0.00297	0.93483	0.55335	0.02670	0.67265
0.40370	-3.93615	1.50386	-0.24715	-1.50225	0.70939	-0.00296	0.95922	0.54555	0.02816	0.66011
0.41321	-4.00332	1.50697	-0.25333	-1.50075	0.71309	-0.00294	0.98694	0.53731	0.02971	0.64707
0.42292	-4.06750	1.50992	-0.25951	-1.49968	0.71684	-0.00293	1.01944	0.52857	0.03110	0.63531
0.43288	-4.13126	1.51263	-0.26556	-1.49832	0.72161	-0.00291	1.05651	0.51927	0.03224	0.62529
0.44307	-4.19149	1.51565	-0.27151	-1.49798	0.72640	-0.00289	1.10008	0.50949	0.03322	0.61651
0.45349	-4.25078	1.51857	-0.27735	-1.49778	0.73059	-0.00287	1.14721	0.49955	0.03407	0.60881
0.46417	-4.31011	1.52149	-0.28303	-1.49757	0.73429	-0.00285	1.19769	0.48950	0.03476	0.60242
0.47508	-4.37031	1.52470	-0.28849	-1.49744	0.73779	-0.00282	1.25186	0.47935	0.03531	0.59715
0.48626	-4.43104	1.52804	-0.29378	-1.49730	0.74109	-0.00280	1.30959	0.46915	0.03576	0.59293
0.49771	-4.49135	1.53128	-0.29894	-1.49716	0.74429	-0.00277	1.37098	0.45892	0.03609	0.58974
0.50942	-4.55231	1.53463	-0.30393	-1.49699	0.74743	-0.00274	1.43625	0.44866	0.03633	0.58739
0.52140	-4.61477	1.53844	-0.30867	-1.49693	0.75075	-0.00272	1.50603	0.43839	0.03650	0.58565
0.53367	-4.67894	1.54259	-0.31320	-1.49683	0.75409	-0.00269	1.57967	0.42817	0.03663	0.58440
0.54624	-4.74342	1.54673	-0.31761	-1.49666	0.75738	-0.00267	1.65700	0.41804	0.03670	0.58366
0.55910	-4.80828	1.55094	-0.32187	-1.49647	0.76070	-0.00264	1.73848	0.40799	0.03673	0.58334
0.57225	-4.87472	1.55561	-0.32588	-1.49641	0.76432	-0.00262	1.82509	0.39798	0.03673	0.58322
0.58569	-4.94299	1.56087	-0.32962	-1.49651	0.76828	-0.00260	1.91701	0.38807	0.03671	0.58324
0.59948	-5.01319	1.56644	-0.33317	-1.49653	0.77233	-0.00258	2.01275	0.37834	0.03666	0.58349
0.61357	-5.08491	1.57198	-0.33655	-1.49622	0.77615	-0.00256	2.10974	0.36894	0.03659	0.58407
0.62802	-5.15935	1.57767	-0.33974	-1.49555	0.77977	-0.00254	2.20804	0.35983	0.03649	0.58497
0.64280	-5.23829	1.58387	-0.34265	-1.49446	0.78323	-0.00252	2.30666	0.35106	0.03638	0.58608
0.65794	-5.32325	1.59072	-0.34527	-1.49276	0.78643	-0.00250	2.40399	0.34267	0.03627	0.58735
0.67340	-5.41343	1.59788	-0.34765	-1.49028	0.78911	-0.00249	2.49747	0.33475	0.03615	0.58887
0.68927	-5.50816	1.60502	-0.34991	-1.48687	0.79106	-0.00247	2.58566	0.32729	0.03603	0.59077
0.70547	-5.60644	1.61205	-0.35206	-1.48264	0.79229	-0.00246	2.66761	0.32032	0.03591	0.59292
0.72207	-5.70912	1.61935	-0.35405	-1.47780	0.79305	-0.00245	2.74525	0.31371	0.03579	0.59508
0.73910	-5.81695	1.62723	-0.35582	-1.47248	0.79355	-0.00244	2.81931	0.30742	0.03568	0.59690
0.75649	-5.92925	1.63567	-0.35738	-1.46674	0.79378	-0.00243	2.88930	0.30146	0.03558	0.59806
0.77429	-6.04464	1.64436	-0.35882	-1.46062	0.79370	-0.00242	2.95507	0.29582	0.03552	0.59826
0.79246	-6.16097	1.65293	-0.36020	-1.45419	0.79320	-0.00241	3.01590	0.29054	0.03549	0.59726
0.81116	-6.27849	1.66140	-0.36155	-1.44752	0.79237	-0.00240	3.07310	0.28551	0.03550	0.59526
0.83022	-6.39631	1.66992	-0.36281	-1.44087	0.79141	-0.00239	3.12750	0.28076	0.03551	0.59261
0.84976	-6.51593	1.67891	-0.36390	-1.43434	0.79056	-0.00238	3.18117	0.27619	0.03552	0.58967
0.86972	-6.63739	1.68849	-0.36480	-1.42801	0.78991	-0.00237	3.23446	0.27181	0.03548	0.58687
0.89023	-6.76109	1.69862	-0.36552	-1.42182	0.78941	-0.00236	3.28752	0.26759	0.03540	0.58475
0.91116	-6.88490	1.70890	-0.36613	-1.41577	0.78894	-0.00235	3.33898	0.26358	0.03526	0.58381
0.93257	-7.00814	1.71908	-0.36669	-1.40979	0.78838	-0.00234	3.38795	0.25982	0.03506	0.58415
0.95456	-7.13090	1.72907	-0.36723	-1.40385	0.78770	-0.00234	3.43413	0.25628	0.03481	0.58572
0.97704	-7.25318	1.73899	-0.36770	-1.39801	0.78699	-0.00233	3.47767	0.25297	0.03450	0.58845
1.00000	-7.37605	1.74913	-0.36804	-1.39230	0.78636	-0.00232	3.51922	0.24987	0.03414	0.59221
1.02354	-7.50090	1.75976	-0.36820	-1.38675	0.78591	-0.00231	3.55982	0.24693	0.03372	0.59687
1.04767	-7.62810	1.77098	-0.36816	-1.38134	0.78568	-0.00231	3.59957	0.24415	0.03326	0.60229
1.07227	-7.75660	1.78260	-0.36793	-1.37607	0.78559	-0.00230	3.63792	0.24154	0.03276	0.60827
1.09745	-7.88590	1.79442	-0.36758	-1.37089	0.78555	-0.00230	3.67425	0.23911	0.03224	0.61472
1.12334	-8.01567	1.80624	-0.36717	-1.36571	0.78546	-0.00229	3.70752	0.23688	0.03171	0.62156
1.14982	-8.14471	1.81782	-0.36672	-1.36054	0.78525	-0.00229	3.73671	0.23489	0.03117	0.62866
1.17675	-8.27237	1.82910	-0.36625	-1.35538	0.78491	-0.00228	3.76142	0.23313	0.03064	0.63585
1.20453	-8.40102	1.84041	-0.36571	-1.35022	0.78453	-0.00228	3.78250	0.23158	0.03011	0.64309
1.23289	-8.53021	1.85184	-0.36504	-1.34513	0.78420	-0.00227	3.80027	0.23023	0.02957	0.65016
1.26183	-8.66061	1.86358	-0.36422	-1.34013	0.78400	-0.00227	3.81547	0.22906	0.02902	0.65702
1.29149	-8.79321	1.87580	-0.36320	-1.33522	0.78398	-0.00226	3.82884	0.22803	0.02844	0.66377
1.32188	-8.92817	1.88846	-0.36200	-1.33032	0.78410	-0.00226	3.83996	0.22714	0.02785	0.67049
1.35300	-9.06494	1.90146	-0.36065	-1.32544	0.78432	-0.00226	3.84876	0.22638	0.02723	0.67730
1.38485	-9.20269	1.91461	-0.35917	-1.32058	0.78459	-0.00225	3.85483	0.22577	0.02661	0.68431
1.41743	-9.34060	1.92771	-0.35761	-1.31571	0.78486	-0.00225	3.85763	0.22531	0.02597	0.69167
1.45075	-9.47799	1.94062	-0.35601	-1.31082	0.78506	-0.00225	3.85677	0.22502	0.02533	0.69941
1.48500	-9.61541	1.95334	-0.35436	-1.30589	0.78519	-0.00225	3.85197	0.22490	0.02469	0.70758
1.51999	-9.75198	1.96581	-0.35267	-1.30097	0.78525	-0.00225	3.84344	0.22495	0.02405	0.71612
1.55569	-9.88798	1.97812	-0.35091	-1.29608	0.78530	-0.00224	3.83158	0.22515	0.02340	0.72498
1.59236	-10.02479	1.99048	-0.34904	-1.29120	0.78537	-0.00224	3.81699	0.22550	0.02275	0.73419
1.62973	-10.16193	2.00293	-0.34705	-1.28638	0.78553	-0.00224	3.80044	0.22595	0.02209	0.74366
1.66806	-10.30061	2.01567	-0.34489	-1.28164	0.78584	-0.00224	3.78271	0.22649	0.02143	0.75341
1.70736	-10.44097	2.02874	-0.34256	-1.27698	0.78632	-0.00224	3.76438	0.22709	0.02075	0.76342
1.74764	-10.58295	2.04216	-0.34005	-1.27241	0.78698	-0.00224	3.74581	0.22774	0.02007	0.77367
1.78859	-10.72515	2.05576	-0.33739	-1.26797	0.78781	-0.00224	3.72735	0.22841	0.01939	0.78406
1.83083	-10.86913	2.06967	-0.33458	-1.26363	0.78882	-0.00224	3.70916	0.22911	0.01872	0.79471
1.87371	-11.01243	2.08355	-0.33167	-1.25939	0.78992	-0.00224	3.69067	0.22984	0.01806	0.80544
1.91791	-11.15666	2.09752	-0.32865	-1.25520	0.79111	-0.00224	3.67161	0.23061	0.01742	0.81634
1.96309	-11.30023	2.11136	-0.32557	-1.25108	0.79234	-0.00224	3.65180	0.23142	0.01680	0.82723

2.00924	-11.44271	2.12498	-0.32244	-1.24705	0.79359	-0.00224	3.63108	0.23229	0.01621	0.83797
2.05634	-11.58384	2.13835	-0.31928	-1.24310	0.79485	-0.00224	3.60933	0.23323	0.01565	0.84842
2.10482	-11.72476	2.15157	-0.31606	-1.23922	0.79612	-0.00224	3.58639	0.23423	0.01511	0.85851
2.15424	-11.86425	2.16455	-0.31280	-1.23543	0.79740	-0.00224	3.56259	0.23529	0.01460	0.86797
2.20507	-12.00374	2.17744	-0.30947	-1.23170	0.79873	-0.00224	3.53795	0.23640	0.01411	0.87677
2.25683	-12.14207	2.19018	-0.30608	-1.22810	0.80010	-0.00224	3.51307	0.23755	0.01365	0.88488
2.31000	-12.28072	2.20295	-0.30259	-1.22460	0.80157	-0.00224	3.48798	0.23873	0.01321	0.89250
2.36463	-12.41990	2.21581	-0.29899	-1.22120	0.80314	-0.00224	3.46293	0.23994	0.01277	0.89972
2.42014	-12.55833	2.22867	-0.29531	-1.21794	0.80482	-0.00224	3.43845	0.24114	0.01235	0.90660
2.47709	-12.69742	2.24167	-0.29149	-1.21481	0.80663	-0.00224	3.41462	0.24235	0.01193	0.91338
2.53550	-12.83719	2.25484	-0.28755	-1.21179	0.80858	-0.00224	3.39149	0.24355	0.01151	0.92023
2.59471	-12.97609	2.26803	-0.28355	-1.20891	0.81064	-0.00224	3.36937	0.24472	0.01110	0.92719
2.65604	-13.11690	2.28148	-0.27937	-1.20614	0.81287	-0.00224	3.34811	0.24588	0.01068	0.93450
2.71887	-13.25803	2.29504	-0.27511	-1.20346	0.81520	-0.00224	3.32764	0.24701	0.01026	0.94213
2.78242	-13.39761	2.30852	-0.27080	-1.20093	0.81761	-0.00225	3.30831	0.24810	0.00986	0.95004
2.84819	-13.53842	2.32213	-0.26635	-1.19852	0.82016	-0.00225	3.28986	0.24918	0.00945	0.95851
2.91545	-13.67900	2.33574	-0.26187	-1.19615	0.82276	-0.00225	3.27183	0.25024	0.00905	0.96746
2.98329	-13.81673	2.34905	-0.25736	-1.19402	0.82542	-0.00225	3.25526	0.25126	0.00866	0.97671
3.05344	-13.95539	2.36242	-0.25282	-1.19186	0.82810	-0.00225	3.23858	0.25226	0.00828	0.98622
3.12598	-14.09441	2.37577	-0.24813	-1.18990	0.83091	-0.00225	3.22281	0.25327	0.00791	0.99586
3.19898	-14.23015	2.38871	-0.24356	-1.18797	0.83363	-0.00225	3.20733	0.25424	0.00756	1.00504
3.27439	-14.36609	2.40162	-0.23886	-1.18623	0.83645	-0.00224	3.19256	0.25521	0.00721	1.01377
3.35121	-14.50028	2.41423	-0.23423	-1.18446	0.83918	-0.00224	3.17755	0.25617	0.00689	1.02176
3.43053	-14.63440	2.42679	-0.22948	-1.18294	0.84204	-0.00224	3.16364	0.25713	0.00658	1.02939
3.51124	-14.76647	2.43902	-0.22482	-1.18137	0.84479	-0.00224	3.14958	0.25806	0.00628	1.03673
3.59324	-14.89618	2.45098	-0.22008	-1.18015	0.84764	-0.00224	3.13706	0.25899	0.00599	1.04421
3.67782	-15.02635	2.46288	-0.21544	-1.17868	0.85034	-0.00224	3.12340	0.25989	0.00571	1.05213
3.76506	-15.15521	2.47455	-0.21054	-1.17778	0.85331	-0.00223	3.11236	0.26082	0.00541	1.06110
3.85356	-15.28375	2.48621	-0.20593	-1.17639	0.85596	-0.00223	3.09917	0.26168	0.00515	1.07061
3.94477	-15.40968	2.49745	-0.20099	-1.17579	0.85896	-0.00223	3.08977	0.26257	0.00486	1.08096
4.03714	-15.53606	2.50885	-0.19630	-1.17471	0.86168	-0.00222	3.07828	0.26339	0.00460	1.09138
4.13223	-15.66020	2.51983	-0.19150	-1.17401	0.86454	-0.00222	3.06898	0.26421	0.00434	1.10198
4.23012	-15.78461	2.53091	-0.18648	-1.17367	0.86757	-0.00222	3.06128	0.26503	0.00407	1.11243
4.32900	-15.90869	2.54196	-0.18191	-1.17257	0.87016	-0.00221	3.05078	0.26574	0.00384	1.12192
4.43066	-16.02821	2.55240	-0.17681	-1.17278	0.87336	-0.00221	3.04648	0.26651	0.00357	1.13112
4.53515	-16.15197	2.56347	-0.17196	-1.17220	0.87619	-0.00220	3.03883	0.26720	0.00334	1.13947
4.64253	-16.27393	2.57416	-0.16723	-1.17161	0.87896	-0.00220	3.03185	0.26782	0.00312	1.14722
4.75059	-16.38987	2.58426	-0.16200	-1.17239	0.88232	-0.00219	3.03107	0.26853	0.00285	1.15462
4.86145	-16.51192	2.59521	-0.15732	-1.17169	0.88498	-0.00219	3.02434	0.26906	0.00265	1.16110
4.97760	-16.63168	2.60559	-0.15247	-1.17157	0.88791	-0.00218	3.02080	0.26960	0.00243	1.16741
5.09424	-16.74582	2.61545	-0.14707	-1.17280	0.89139	-0.00218	3.02280	0.27025	0.00215	1.17355
5.21376	-16.86744	2.62639	-0.14241	-1.17218	0.89402	-0.00217	3.01800	0.27064	0.00196	1.17882
5.33618	-16.98346	2.63637	-0.13778	-1.17206	0.89679	-0.00217	3.01602	0.27102	0.00176	1.18397
5.46150	-17.09281	2.64563	-0.13226	-1.17402	0.90054	-0.00216	3.02247	0.27162	0.00147	1.18952
5.58971	-17.21127	2.65621	-0.12743	-1.17403	0.90337	-0.00215	3.02180	0.27194	0.00126	1.19446
5.72082	-17.32918	2.66648	-0.12321	-1.17312	0.90567	-0.00215	3.01854	0.27207	0.00111	1.19921
5.85823	-17.43567	2.67515	-0.11767	-1.17553	0.90953	-0.00214	3.02771	0.27262	0.00080	1.20516
5.99520	-17.54588	2.68469	-0.11240	-1.17706	0.91294	-0.00213	3.03411	0.27300	0.00055	1.21086
6.13497	-17.66543	2.69538	-0.10830	-1.17586	0.91501	-0.00213	3.03181	0.27291	0.00042	1.21590
6.28141	-17.77455	2.70426	-0.10374	-1.17650	0.91785	-0.00212	3.03619	0.27308	0.00021	1.22177
6.42674	-17.87107	2.71189	-0.09813	-1.17991	0.92191	-0.00211	3.04960	0.27368	-0.00012	1.22841
6.57895	-17.98212	2.72149	-0.09310	-1.18111	0.92502	-0.00210	3.05679	0.27384	-0.00034	1.23468
6.73401	-18.10243	2.73212	-0.08938	-1.17934	0.92665	-0.00210	3.05626	0.27337	-0.00042	1.24019
6.89180	-18.20259	2.73979	-0.08497	-1.18061	0.92950	-0.00209	3.06410	0.27350	-0.00063	1.24670
7.05716	-18.29490	2.74659	-0.07915	-1.18498	0.93386	-0.00208	3.08054	0.27423	-0.00100	1.25430
7.22022	-18.39720	2.75507	-0.07428	-1.18675	0.93695	-0.00207	3.09094	0.27434	-0.00122	1.26083
7.39098	-18.51649	2.76555	-0.07064	-1.18500	0.93841	-0.00206	3.09443	0.27359	-0.00128	1.26630
7.56430	-18.62152	2.77369	-0.06718	-1.18436	0.94015	-0.00205	3.10048	0.27308	-0.00138	1.27180
7.73994	-18.69922	2.77842	-0.06174	-1.18952	0.94449	-0.00205	3.11676	0.27408	-0.00176	1.27861
7.92393	-18.79115	2.78521	-0.05648	-1.19308	0.94821	-0.00204	3.13196	0.27452	-0.00206	1.28461
8.11030	-18.89593	2.79380	-0.05214	-1.19390	0.95062	-0.00203	3.14308	0.27421	-0.00223	1.28934
8.29876	-19.01619	2.80419	-0.04940	-1.19054	0.95096	-0.00202	3.14990	0.27260	-0.00219	1.29243
8.49618	-19.10950	2.81041	-0.04586	-1.19134	0.95303	-0.00201	3.16045	0.27231	-0.00234	1.29660
8.69565	-19.17505	2.81335	-0.04031	-1.19807	0.95784	-0.00200	3.17606	0.27391	-0.00278	1.30232
8.90472	-19.26251	2.81933	-0.03536	-1.20173	0.96135	-0.00200	3.19200	0.27431	-0.00306	1.30704
9.11577	-19.35872	2.82657	-0.03103	-1.20346	0.96389	-0.00199	3.20663	0.27408	-0.00326	1.31110
9.32836	-19.47971	2.83708	-0.02823	-1.20011	0.96395	-0.00197	3.22119	0.27198	-0.00320	1.31366
9.54198	-19.58574	2.84503	-0.02605	-1.19719	0.96390	-0.00196	3.23699	0.26997	-0.00314	1.31649
9.76563	-19.63988	2.84598	-0.02136	-1.20399	0.96845	-0.00196	3.24411	0.27209	-0.00356	1.32276
10.00000	-19.70281	2.84847	-0.01613	-1.21076	0.97313	-0.00195	3.25864	0.27370	-0.00397	1.32959

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
High stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 15 - 30 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.82393	3.40151	-0.04117	-1.68273	1.00469	-0.00098	1.11066	0.45422	-0.01534	0.31966
PGV	7.53861	1.82790	-0.06406	-3.37710	1.61583	-0.00112	15.19018	0.26168	-0.02267	0.51856
PGA	1.58360	1.57006	-0.05130	-2.55411	0.97298	-0.00241	4.33280	0.48809	-0.02775	0.74603
0.01000	2.36018	1.59576	-0.04413	-2.71117	0.95347	-0.00218	5.12422	0.47523	-0.00229	0.70248
0.01024	2.37865	1.59924	-0.04288	-2.71644	0.94672	-0.00217	5.12441	0.47646	-0.00245	0.70422
0.01048	2.40034	1.60270	-0.04164	-2.72226	0.94002	-0.00215	5.12753	0.47762	-0.00263	0.70604
0.01072	2.42563	1.60615	-0.04039	-2.72872	0.93341	-0.00213	5.13418	0.47868	-0.00282	0.70791
0.01097	2.45663	1.60962	-0.03914	-2.73622	0.92692	-0.00210	5.14697	0.47959	-0.00302	0.70982
0.01123	2.49335	1.61314	-0.03788	-2.74479	0.92058	-0.00208	5.16577	0.48037	-0.00324	0.71180
0.01150	2.53313	1.61668	-0.03660	-2.75393	0.91434	-0.00206	5.18724	0.48108	-0.00348	0.71387
0.01177	2.57405	1.62025	-0.03530	-2.76326	0.90811	-0.00204	5.20906	0.48178	-0.00373	0.71600
0.01205	2.61512	1.62381	-0.03400	-2.77258	0.90180	-0.00201	5.22997	0.48251	-0.00399	0.71819
0.01233	2.65666	1.62736	-0.03270	-2.78192	0.89533	-0.00199	5.25055	0.48325	-0.00425	0.72034
0.01262	2.69805	1.63085	-0.03140	-2.79113	0.88866	-0.00197	5.27022	0.48401	-0.00449	0.72235
0.01292	2.73808	1.63429	-0.03009	-2.80000	0.88190	-0.00194	5.28757	0.48481	-0.00472	0.72422
0.01322	2.77597	1.63770	-0.02874	-2.80843	0.87513	-0.00192	5.30153	0.48569	-0.00494	0.72609
0.01353	2.81276	1.64115	-0.02738	-2.81666	0.86826	-0.00190	5.31286	0.48663	-0.00518	0.72807
0.01385	2.84688	1.64465	-0.02598	-2.82442	0.86094	-0.00188	5.31893	0.48772	-0.00542	0.73010
0.01417	2.87800	1.64818	-0.02456	-2.83160	0.85313	-0.00186	5.31963	0.48894	-0.00567	0.73216
0.01451	2.91109	1.65173	-0.02313	-2.83912	0.84533	-0.00183	5.32218	0.49013	-0.00592	0.73426
0.01485	2.94900	1.65534	-0.02167	-2.84754	0.83793	-0.00181	5.33039	0.49118	-0.00616	0.73638
0.01520	2.98509	1.65897	-0.02015	-2.85565	0.83065	-0.00179	5.33534	0.49231	-0.00640	0.73848
0.01556	3.01510	1.66257	-0.01861	-2.86260	0.82307	-0.00177	5.33185	0.49362	-0.00664	0.74066
0.01592	3.04476	1.66609	-0.01713	-2.86930	0.81530	-0.00175	5.32874	0.49493	-0.00692	0.74314
0.01630	3.07978	1.66955	-0.01573	-2.87673	0.80758	-0.00173	5.33411	0.49605	-0.00724	0.74593
0.01668	3.11811	1.67306	-0.01433	-2.88464	0.79969	-0.00171	5.34374	0.49709	-0.00755	0.74882
0.01707	3.15713	1.67672	-0.01291	-2.89272	0.79135	-0.00169	5.35238	0.49821	-0.00786	0.75168
0.01748	3.18779	1.68040	-0.01149	-2.89926	0.78245	-0.00167	5.34897	0.49962	-0.00810	0.75426
0.01789	3.20941	1.68400	-0.01010	-2.90412	0.77347	-0.00166	5.33360	0.50128	-0.00825	0.75623
0.01831	3.23154	1.68759	-0.00869	-2.90914	0.76506	-0.00164	5.31780	0.50292	-0.00833	0.75770
0.01874	3.25776	1.69125	-0.00722	-2.91499	0.75724	-0.00163	5.30577	0.50445	-0.00842	0.75925
0.01918	3.28459	1.69503	-0.00567	-2.92092	0.74951	-0.00161	5.29387	0.50602	-0.00861	0.76148
0.01963	3.30195	1.69887	-0.00408	-2.92505	0.74149	-0.00160	5.27079	0.50787	-0.00892	0.76449
0.02009	3.30098	1.70255	-0.00248	-2.92561	0.73286	-0.00160	5.22748	0.51020	-0.00925	0.76773
0.02057	3.29095	1.70600	-0.00091	-2.92422	0.72364	-0.00159	5.17603	0.51271	-0.00947	0.77035
0.02105	3.29112	1.70934	0.00058	-2.92445	0.71387	-0.00158	5.13795	0.51493	-0.00951	0.77178
0.02154	3.30466	1.71261	0.00195	-2.92692	0.70349	-0.00157	5.11585	0.51679	-0.00940	0.77223
0.02205	3.31542	1.71571	0.00328	-2.92871	0.69291	-0.00156	5.09122	0.51870	-0.00925	0.77241
0.02257	3.30579	1.71860	0.00461	-2.92666	0.68257	-0.00155	5.04396	0.52111	-0.00917	0.77308
0.02310	3.27356	1.72137	0.00599	-2.92050	0.67244	-0.00155	4.97068	0.52414	-0.00923	0.77462
0.02364	3.22918	1.72427	0.00739	-2.91229	0.66238	-0.00155	4.88261	0.52758	-0.00939	0.77680
0.02420	3.18089	1.72735	0.00888	-2.90354	0.65236	-0.00156	4.79010	0.53120	-0.00955	0.77902
0.02477	3.13416	1.73052	0.01056	-2.89503	0.64224	-0.00156	4.70169	0.53480	-0.00962	0.78072
0.02535	3.09154	1.73372	0.01237	-2.88700	0.63161	-0.00157	4.62197	0.53826	-0.00956	0.78151
0.02595	3.04159	1.73680	0.01417	-2.87726	0.61994	-0.00157	4.53807	0.54193	-0.00934	0.78134
0.02656	2.97119	1.73960	0.01586	-2.86354	0.60727	-0.00158	4.43425	0.54619	-0.00905	0.78078
0.02719	2.89662	1.74211	0.01736	-2.84893	0.59500	-0.00160	4.32768	0.55053	-0.00883	0.78067
0.02783	2.83756	1.74445	0.01874	-2.83718	0.58483	-0.00161	4.23926	0.55428	-0.00871	0.78124
0.02848	2.79022	1.74671	0.02009	-2.82770	0.57682	-0.00162	4.16475	0.55755	-0.00862	0.78202
0.02915	2.73204	1.74890	0.02146	-2.81631	0.56933	-0.00163	4.08114	0.56109	-0.00844	0.78228
0.02984	2.64991	1.75106	0.02286	-2.80048	0.56130	-0.00166	3.97706	0.56534	-0.00813	0.78172
0.03054	2.55423	1.75334	0.02426	-2.78191	0.55276	-0.00168	3.86569	0.57000	-0.00777	0.78094
0.03126	2.45410	1.75588	0.02573	-2.76231	0.54372	-0.00171	3.75622	0.57481	-0.00741	0.78024
0.03199	2.34449	1.75863	0.02742	-2.74110	0.53419	-0.00175	3.64104	0.57999	-0.00703	0.77935
0.03275	2.21947	1.76128	0.02938	-2.71738	0.52447	-0.00178	3.51222	0.58574	-0.00668	0.77856
0.03352	2.08090	1.76343	0.03149	-2.69133	0.51520	-0.00182	3.37094	0.59198	-0.00642	0.77839
0.03430	1.93333	1.76501	0.03347	-2.66374	0.50642	-0.00185	3.22098	0.59863	-0.00614	0.77809
0.03511	1.78669	1.76616	0.03513	-2.63625	0.49742	-0.00188	3.07197	0.60543	-0.00570	0.77680
0.03594	1.66259	1.76706	0.03641	-2.61249	0.48814	-0.00191	2.94536	0.61157	-0.00513	0.77480
0.03678	1.57447	1.76786	0.03739	-2.59464	0.47909	-0.00192	2.85524	0.61635	-0.00453	0.77277
0.03765	1.51500	1.76840	0.03812	-2.58112	0.47043	-0.00194	2.79668	0.61983	-0.00399	0.77116
0.03854	1.46351	1.76838	0.03872	-2.56817	0.46241	-0.00195	2.75204	0.62265	-0.00363	0.77073
0.03944	1.40210	1.76794	0.03932	-2.55289	0.45590	-0.00198	2.70484	0.62552	-0.00354	0.77210
0.04037	1.32477	1.76762	0.04007	-2.53475	0.45173	-0.00202	2.64896	0.62879	-0.00364	0.77471
0.04132	1.24042	1.76795	0.04113	-2.51572	0.45003	-0.00207	2.59122	0.63223	-0.00377	0.77754
0.04229	1.16339	1.76918	0.04243	-2.49865	0.45025	-0.00212	2.54186	0.63538	-0.00387	0.78007
0.04329	1.09041	1.77137	0.04382	-2.48317	0.45134	-0.00217	2.49656	0.63845	-0.00389	0.78200
0.04431	1.00836	1.77433	0.04515	-2.46690	0.45206	-0.00222	2.44371	0.64202	-0.00377	0.78295
0.04535	0.90850	1.77767	0.04633	-2.44812	0.45157	-0.00228	2.37605	0.64647	-0.00341	0.78223

0.04642	0.79251	1.78097	0.04726	-2.42692	0.44902	-0.00232	2.29403	0.65181	-0.00267	0.77892
0.04751	0.66730	1.78332	0.04788	-2.40382	0.44353	-0.00236	2.20192	0.65782	-0.00164	0.77354
0.04863	0.53799	1.78373	0.04825	-2.37875	0.43566	-0.00238	2.10410	0.66422	-0.00064	0.76813
0.04977	0.41217	1.78190	0.04851	-2.35265	0.42766	-0.00240	2.00799	0.67052	0.00009	0.76442
0.05094	0.29494	1.77849	0.04887	-2.32679	0.42190	-0.00243	1.91990	0.67630	0.00049	0.76278
0.05214	0.17872	1.77444	0.04961	-2.30048	0.41919	-0.00247	1.83731	0.68178	0.00067	0.76260
0.05337	0.05416	1.77020	0.05084	-2.27239	0.41872	-0.00251	1.75490	0.68739	0.00071	0.76317
0.05462	-0.07289	1.76591	0.05218	-2.24367	0.41926	-0.00257	1.67520	0.69302	0.00074	0.76381
0.05591	-0.18969	1.76180	0.05314	-2.21686	0.42040	-0.00262	1.60455	0.69821	0.00083	0.76413
0.05722	-0.29255	1.75790	0.05354	-2.19277	0.42271	-0.00267	1.54467	0.70268	0.00095	0.76443
0.05857	-0.38327	1.75393	0.05346	-2.17107	0.42705	-0.00272	1.49428	0.70633	0.00106	0.76512
0.05995	-0.45904	1.74948	0.05290	-2.15205	0.43354	-0.00277	1.45426	0.70892	0.00118	0.76592
0.06136	-0.51559	1.74440	0.05182	-2.13622	0.44158	-0.00281	1.42650	0.71023	0.00146	0.76589
0.06280	-0.55832	1.73885	0.05031	-2.12248	0.45028	-0.00285	1.40812	0.71060	0.00200	0.76424
0.06428	-0.59806	1.73289	0.04861	-2.10857	0.45904	-0.00290	1.39372	0.71059	0.00274	0.76138
0.06579	-0.63731	1.72651	0.04685	-2.09377	0.46778	-0.00294	1.38266	0.71031	0.00350	0.75849
0.06734	-0.66939	1.72001	0.04500	-2.07948	0.47703	-0.00300	1.37881	0.70944	0.00417	0.75613
0.06893	-0.69120	1.71387	0.04295	-2.06699	0.48739	-0.00305	1.38289	0.70789	0.00483	0.75383
0.07055	-0.70753	1.70876	0.04064	-2.05651	0.49888	-0.00310	1.39007	0.70612	0.00563	0.75053
0.07221	-0.72686	1.70500	0.03819	-2.04729	0.51102	-0.00316	1.39357	0.70475	0.00661	0.74595
0.07391	-0.75618	1.70244	0.03588	-2.03810	0.52312	-0.00320	1.38844	0.70422	0.00766	0.74070
0.07565	-0.79499	1.70048	0.03390	-2.02843	0.53385	-0.00324	1.37442	0.70454	0.00864	0.73559
0.07743	-0.83701	1.69807	0.03213	-2.01829	0.54129	-0.00327	1.35402	0.70550	0.00948	0.73108
0.07925	-0.87744	1.69436	0.03028	-2.00765	0.54425	-0.00328	1.32908	0.70690	0.01019	0.72713
0.08111	-0.91527	1.68931	0.02819	-1.99661	0.54324	-0.00328	1.30082	0.70861	0.01080	0.72368
0.08302	-0.95887	1.68331	0.02602	-1.98396	0.53985	-0.00327	1.26641	0.71094	0.01130	0.72081
0.08498	-1.02097	1.67637	0.02408	-1.96733	0.53586	-0.00326	1.22085	0.71437	0.01167	0.71883
0.08697	-1.10495	1.66828	0.02245	-1.94576	0.53261	-0.00326	1.16424	0.71898	0.01190	0.71798
0.08902	-1.19895	1.65910	0.02094	-1.92120	0.53089	-0.00327	1.10476	0.72401	0.01197	0.71848
0.09112	-1.28770	1.64923	0.01925	-1.89653	0.53068	-0.00329	1.05134	0.72856	0.01184	0.72063
0.09326	-1.36451	1.63932	0.01726	-1.87348	0.53166	-0.00331	1.00759	0.73219	0.01155	0.72402
0.09545	-1.43053	1.63013	0.01500	-1.85259	0.53390	-0.00333	0.97308	0.73491	0.01120	0.72792
0.09770	-1.48722	1.62224	0.01244	-1.83428	0.53748	-0.00336	0.94683	0.73680	0.01086	0.73168
0.10000	-1.53187	1.61567	0.00940	-1.81933	0.54179	-0.00338	0.92859	0.73778	0.01069	0.73437
0.10235	-1.56736	1.61009	0.00576	-1.80716	0.54583	-0.00340	0.91527	0.73819	0.01085	0.73489
0.10476	-1.59059	1.60502	0.00144	-1.79797	0.55000	-0.00341	0.90770	0.73778	0.01140	0.73297
0.10723	-1.60490	1.60024	-0.00334	-1.79088	0.55471	-0.00341	0.90458	0.73670	0.01217	0.72954
0.10975	-1.61529	1.59568	-0.00828	-1.78479	0.55989	-0.00342	0.90399	0.73521	0.01298	0.72578
0.11233	-1.62758	1.59116	-0.01311	-1.77849	0.56541	-0.00343	0.90333	0.73366	0.01370	0.72230
0.11498	-1.65015	1.58620	-0.01763	-1.77013	0.57088	-0.00344	0.89782	0.73265	0.01430	0.71916
0.11768	-1.69062	1.58036	-0.02172	-1.75816	0.57615	-0.00346	0.88253	0.73280	0.01482	0.71608
0.12045	-1.74977	1.57352	-0.02540	-1.74253	0.58174	-0.00349	0.85647	0.73425	0.01530	0.71277
0.12328	-1.82179	1.56586	-0.02878	-1.72449	0.58844	-0.00351	0.82286	0.73664	0.01572	0.70944
0.12619	-1.89665	1.55776	-0.03203	-1.70610	0.59666	-0.00354	0.78750	0.73924	0.01602	0.70661
0.12916	-1.96636	1.54962	-0.03536	-1.68902	0.60579	-0.00356	0.75472	0.74147	0.01622	0.70427
0.13219	-2.02740	1.54179	-0.03893	-1.67415	0.61479	-0.00358	0.72617	0.74312	0.01646	0.70156
0.13531	-2.08127	1.53439	-0.04279	-1.66119	0.62332	-0.00358	0.70122	0.74428	0.01683	0.69799
0.13849	-2.13005	1.52696	-0.04697	-1.64913	0.63181	-0.00359	0.67915	0.74498	0.01722	0.69428
0.14175	-2.17441	1.51898	-0.05145	-1.63717	0.64094	-0.00359	0.65974	0.74515	0.01745	0.69176
0.14508	-2.21116	1.51035	-0.05628	-1.62572	0.65141	-0.00360	0.64445	0.74445	0.01745	0.69089
0.14850	-2.23585	1.50138	-0.06154	-1.61588	0.66361	-0.00360	0.63549	0.74243	0.01732	0.69109
0.15199	-2.24882	1.49252	-0.06716	-1.60803	0.67724	-0.00361	0.63285	0.73913	0.01710	0.69202
0.15557	-2.25137	1.48415	-0.07306	-1.60229	0.69158	-0.00361	0.63616	0.73474	0.01681	0.69368
0.15923	-2.24504	1.47645	-0.07923	-1.59853	0.70559	-0.00361	0.64496	0.72943	0.01652	0.69560
0.16298	-2.23247	1.46961	-0.08553	-1.59652	0.71833	-0.00361	0.65795	0.72359	0.01635	0.69709
0.16681	-2.21704	1.46370	-0.09183	-1.59575	0.72912	-0.00359	0.67331	0.71764	0.01638	0.69757
0.17074	-2.19713	1.45849	-0.09811	-1.59630	0.73817	-0.00357	0.69190	0.71141	0.01661	0.69705
0.17475	-2.17365	1.45368	-0.10433	-1.59763	0.74612	-0.00355	0.71375	0.70489	0.01692	0.69614
0.17887	-2.14626	1.44896	-0.11049	-1.59944	0.75365	-0.00352	0.73934	0.69797	0.01720	0.69564
0.18307	-2.11468	1.44414	-0.11667	-1.60159	0.76093	-0.00350	0.76926	0.69057	0.01741	0.69574
0.18738	-2.07957	1.43931	-0.12285	-1.60408	0.76806	-0.00347	0.80360	0.68276	0.01761	0.69616
0.19179	-2.04411	1.43475	-0.12893	-1.60664	0.77502	-0.00345	0.84104	0.67483	0.01786	0.69641
0.19631	-2.01275	1.43059	-0.13476	-1.60859	0.78166	-0.00343	0.87912	0.66721	0.01820	0.69613
0.20092	-1.99020	1.42679	-0.14021	-1.60902	0.78776	-0.00341	0.91482	0.66028	0.01861	0.69522
0.20565	-1.97909	1.42322	-0.14518	-1.60728	0.79309	-0.00339	0.94625	0.65423	0.01904	0.69391
0.21049	-1.97729	1.41982	-0.14970	-1.60370	0.79741	-0.00338	0.97432	0.64885	0.01939	0.69290
0.21544	-1.98101	1.41673	-0.15380	-1.59917	0.80055	-0.00337	1.00091	0.64391	0.01957	0.69280
0.22051	-1.98847	1.41430	-0.15756	-1.59441	0.80229	-0.00336	1.02665	0.63938	0.01960	0.69354
0.22570	-1.99861	1.41278	-0.16101	-1.58988	0.80266	-0.00334	1.05202	0.63524	0.01950	0.69504
0.23101	-2.00971	1.41220	-0.16420	-1.58594	0.80188	-0.00333	1.07783	0.63141	0.01931	0.69722
0.23645	-2.02226	1.41240	-0.16721	-1.58233	0.79963	-0.00331	1.10363	0.62791	0.01910	0.69970
0.24201	-2.03503	1.41331	-0.17012	-1.57929	0.79601	-0.00329	1.12986	0.62467	0.01889	0.70236
0.24771	-2.04685	1.41508	-0.17293	-1.57723	0.79159	-0.00326	1.15780	0.62154	0.01873	0.70478
0.25354	-2.05918	1.41784	-0.17557	-1.57606	0.78719	-0.00323	1.18682	0.61857	0.01869	0.70642
0.25950	-2.07132	1.42149	-0.17806	-1.57589	0.78382	-0.00321	1.21773	0.61561	0.01875	0.70738
0.26561	-2.08246	1.42570	-0.18046	-1.57660	0.78156	-0.00320	1.25102	0.61251	0.01889	0.70779
0.27186	-2.09223	1.43097	-0.18280	-1.57886	0.78120	-0.00318	1.28785	0.60923	0.01930	0.70633
0.27826	-2.11329	1.43619	-0.18499	-1.57919	0.78152	-0.00318	1.31712	0.60660	0.01993	0.70318
0.28480	-2.14808	1.44065	-0.18717	-1.57652	0.78222	-0.00318	1.33517	0.60476	0.02067	0.69928
0.29150	-2.18751	1.44587	-0.18940	-1.57416	0.78469	-0.00319	1.34973	0.60318	0.02152	0.69456
0.29836	-2.22606	1.45181	-0.19177	-1.57326	0.78904	-0.00320	1.36446	0.60151	0.02233	0.69009

0.30539	-2.26843	1.45809	-0.19411	-1.57256	0.79483	-0.00322	1.37583	0.59997	0.02303	0.68619
0.31257	-2.31320	1.46456	-0.19645	-1.57229	0.80212	-0.00324	1.38441	0.59845	0.02355	0.68341
0.31993	-2.35882	1.47169	-0.19889	-1.57322	0.81083	-0.00326	1.39181	0.59689	0.02395	0.68125
0.32745	-2.40887	1.47945	-0.20147	-1.57457	0.82025	-0.00328	1.39497	0.59556	0.02430	0.67925
0.33517	-2.47366	1.48629	-0.20437	-1.57293	0.82876	-0.00331	1.38317	0.59513	0.02453	0.67800
0.34304	-2.55540	1.49242	-0.20753	-1.56812	0.83567	-0.00333	1.35526	0.59578	0.02467	0.67722
0.35112	-2.65669	1.49817	-0.21086	-1.55980	0.84028	-0.00336	1.31104	0.59771	0.02475	0.67682
0.35938	-2.77289	1.50390	-0.21426	-1.54912	0.84325	-0.00338	1.25563	0.60068	0.02476	0.67687
0.36784	-2.89685	1.50974	-0.21772	-1.53758	0.84460	-0.00340	1.19637	0.60411	0.02463	0.67799
0.37649	-3.02808	1.51557	-0.22120	-1.52508	0.84411	-0.00342	1.13471	0.60791	0.02434	0.68028
0.38536	-3.07170	1.52263	-0.22576	-1.53150	0.85481	-0.00343	1.14398	0.60342	0.02389	0.68377
0.39442	-3.29541	1.52567	-0.22870	-1.49858	0.84001	-0.00345	1.01716	0.61512	0.02328	0.68851
0.40370	-3.42203	1.52976	-0.23295	-1.48634	0.83621	-0.00345	0.96770	0.61758	0.02253	0.69427
0.41321	-3.54099	1.53350	-0.23764	-1.47559	0.83196	-0.00344	0.92640	0.61900	0.02177	0.70028
0.42292	-3.65656	1.53749	-0.24259	-1.46602	0.82769	-0.00344	0.89107	0.61969	0.02115	0.70542
0.43288	-3.77180	1.54230	-0.24772	-1.45750	0.82375	-0.00343	0.86090	0.61977	0.02079	0.70890
0.44307	-3.89496	1.54646	-0.25297	-1.44705	0.81643	-0.00341	0.82823	0.62005	0.02072	0.71062
0.45349	-4.02248	1.55002	-0.25841	-1.43538	0.80746	-0.00339	0.79519	0.62028	0.02082	0.71147
0.46417	-4.15184	1.55351	-0.26397	-1.42351	0.79920	-0.00337	0.76434	0.62010	0.02111	0.71130
0.47508	-4.28778	1.55711	-0.26938	-1.41063	0.79006	-0.00335	0.73305	0.61995	0.02157	0.71013
0.48626	-4.42667	1.56058	-0.27472	-1.39718	0.77996	-0.00333	0.70292	0.61959	0.02215	0.70812
0.49771	-4.56237	1.56415	-0.28001	-1.38466	0.76921	-0.00330	0.67732	0.61851	0.02279	0.70575
0.50942	-4.69543	1.56754	-0.28522	-1.37265	0.75738	-0.00327	0.65616	0.61654	0.02348	0.70284
0.52140	-4.82499	1.57149	-0.29029	-1.36192	0.74690	-0.00323	0.64135	0.61334	0.02421	0.69945
0.53367	-4.95152	1.57569	-0.29526	-1.35212	0.73828	-0.00321	0.63213	0.60892	0.02501	0.69527
0.54624	-5.07256	1.57960	-0.30035	-1.34306	0.73159	-0.00318	0.62885	0.60316	0.02591	0.69025
0.55910	-5.18729	1.58316	-0.30554	-1.33491	0.72555	-0.00316	0.63183	0.59598	0.02695	0.68409
0.57225	-5.29910	1.58700	-0.31057	-1.32770	0.71977	-0.00313	0.64015	0.58764	0.02814	0.67664
0.58569	-5.40806	1.59129	-0.31535	-1.32148	0.71548	-0.00310	0.65425	0.57818	0.02940	0.66828
0.59948	-5.51191	1.59579	-0.31998	-1.31654	0.71297	-0.00308	0.67525	0.56749	0.03068	0.65964
0.61357	-5.60734	1.60015	-0.32446	-1.31315	0.71208	-0.00306	0.70446	0.55552	0.03187	0.65147
0.62802	-5.69458	1.60443	-0.32878	-1.31141	0.71269	-0.00304	0.74322	0.54219	0.03292	0.64409
0.64280	-5.77562	1.60897	-0.33286	-1.31120	0.71452	-0.00301	0.79175	0.52773	0.03384	0.63758
0.65794	-5.85285	1.61396	-0.33668	-1.31219	0.71744	-0.00299	0.84987	0.51247	0.03465	0.63183
0.67340	-5.92642	1.61920	-0.34025	-1.31412	0.72131	-0.00297	0.91705	0.49675	0.03539	0.62673
0.68927	-5.99661	1.62434	-0.34366	-1.31664	0.72587	-0.00294	0.99330	0.48072	0.03606	0.62237
0.70547	-6.06272	1.62929	-0.34689	-1.31975	0.73098	-0.00292	1.07910	0.46453	0.03663	0.61887
0.72207	-6.12592	1.63440	-0.34991	-1.32358	0.73668	-0.00290	1.17636	0.44812	0.03708	0.61613
0.73910	-6.18847	1.64005	-0.35262	-1.32804	0.74298	-0.00288	1.28491	0.43174	0.03741	0.61390
0.75649	-6.25097	1.64630	-0.35501	-1.33302	0.74981	-0.00285	1.40415	0.41561	0.03764	0.61183
0.77429	-6.31367	1.65287	-0.35713	-1.33823	0.75693	-0.00283	1.53315	0.39988	0.03780	0.60948
0.79246	-6.37528	1.65941	-0.35904	-1.34357	0.76411	-0.00281	1.67121	0.38464	0.03792	0.60651
0.81116	-6.43597	1.66586	-0.36077	-1.34908	0.77139	-0.00279	1.82018	0.36973	0.03800	0.60298
0.83022	-6.49649	1.67238	-0.36227	-1.35464	0.77872	-0.00277	1.97837	0.35535	0.03804	0.59913
0.84976	-6.55948	1.67935	-0.36348	-1.36013	0.78609	-0.00275	2.14564	0.34146	0.03803	0.59524
0.86972	-6.62635	1.68695	-0.36440	-1.36536	0.79338	-0.00273	2.31945	0.32821	0.03797	0.59167
0.89023	-6.69817	1.69512	-0.36506	-1.37013	0.80045	-0.00271	2.49852	0.31558	0.03785	0.58887
0.91116	-6.77404	1.70351	-0.36551	-1.37417	0.80698	-0.00269	2.67859	0.30371	0.03767	0.58732
0.93257	-6.85312	1.71182	-0.36585	-1.37743	0.81284	-0.00267	2.85864	0.29253	0.03743	0.58707
0.95456	-6.93517	1.71994	-0.36608	-1.37991	0.81801	-0.00265	3.03850	0.28193	0.03713	0.58809
0.97704	-7.02042	1.72797	-0.36618	-1.38161	0.82252	-0.00264	3.21634	0.27194	0.03678	0.59032
1.00000	-7.11066	1.73620	-0.36611	-1.38243	0.82638	-0.00262	3.38952	0.26258	0.03636	0.59364
1.02354	-7.20783	1.74491	-0.36583	-1.38228	0.82963	-0.00261	3.55613	0.25382	0.03588	0.59794
1.04767	-7.31236	1.75421	-0.36533	-1.38115	0.83229	-0.00259	3.71447	0.24565	0.03535	0.60308
1.07227	-7.42307	1.76396	-0.36464	-1.37909	0.83434	-0.00258	3.86276	0.23810	0.03477	0.60885
1.09745	-7.53879	1.77396	-0.36383	-1.37620	0.83580	-0.00257	4.00154	0.23108	0.03417	0.61513
1.12334	-7.65829	1.78398	-0.36294	-1.37258	0.83668	-0.00256	4.13177	0.22450	0.03357	0.62182
1.14982	-7.77968	1.79379	-0.36201	-1.36834	0.83699	-0.00255	4.25318	0.21835	0.03296	0.62877
1.17675	-7.90138	1.80333	-0.36106	-1.36372	0.83690	-0.00254	4.36673	0.21261	0.03237	0.63580
1.20453	-8.02555	1.81289	-0.36002	-1.35871	0.83649	-0.00253	4.47416	0.20717	0.03178	0.64285
1.23289	-8.15182	1.82258	-0.35887	-1.35339	0.83588	-0.00252	4.57389	0.20210	0.03120	0.64971
1.26183	-8.28083	1.83262	-0.35758	-1.34782	0.83518	-0.00252	4.66586	0.19738	0.03062	0.65631
1.29149	-8.41362	1.84317	-0.35611	-1.34199	0.83444	-0.00251	4.75035	0.19300	0.03002	0.66277
1.32188	-8.55013	1.85424	-0.35448	-1.33592	0.83368	-0.00250	4.82702	0.18893	0.02943	0.66915
1.35300	-8.68968	1.86571	-0.35270	-1.32962	0.83286	-0.00250	4.89585	0.18517	0.02883	0.67554
1.38485	-8.83079	1.87740	-0.35081	-1.32324	0.83203	-0.00250	4.95815	0.18169	0.02824	0.68203
1.41743	-8.97215	1.88912	-0.34884	-1.31686	0.83117	-0.00249	5.01469	0.17849	0.02767	0.68876
1.45075	-9.11251	1.90072	-0.34683	-1.31060	0.83032	-0.00249	5.06651	0.17554	0.02712	0.69575
1.48500	-9.25200	1.91217	-0.34477	-1.30449	0.82951	-0.00248	5.11461	0.17283	0.02659	0.70306
1.51999	-9.38951	1.92344	-0.34267	-1.29864	0.82879	-0.00248	5.15896	0.17038	0.02608	0.71062
1.55569	-9.52533	1.93459	-0.34052	-1.29307	0.82820	-0.00248	5.19948	0.16819	0.02558	0.71843
1.59236	-9.66077	1.94586	-0.33827	-1.28779	0.82781	-0.00247	5.23663	0.16625	0.02509	0.72654
1.62973	-9.79556	1.95729	-0.33591	-1.28283	0.82766	-0.00247	5.26987	0.16459	0.02460	0.73487
1.66806	-9.93113	1.96908	-0.33342	-1.27814	0.82779	-0.00247	5.29927	0.16320	0.02411	0.74347
1.70736	-10.06795	1.98128	-0.33077	-1.27368	0.82818	-0.00246	5.32416	0.16207	0.02360	0.75236
1.74764	-10.20605	1.99391	-0.32798	-1.26944	0.82882	-0.00246	5.34438	0.16122	0.02307	0.76154
1.78859	-10.34420	2.00682	-0.32506	-1.26543	0.82967	-0.00246	5.35980	0.16062	0.02254	0.77094
1.83083	-10.48407	2.02010	-0.32201	-1.26158	0.83072	-0.00246	5.37066	0.16028	0.02200	0.78069
1.87371	-10.62295	2.03344	-0.31889	-1.25794	0.83191	-0.00246	5.37693	0.16017	0.02146	0.79062
1.91791	-10.76240	2.04692	-0.31568	-1.25446	0.83323	-0.00246	5.37906	0.16028	0.02091	0.80083
1.96309	-10.90075	2.06032	-0.31243	-1.25118	0.83464	-0.00246	5.37721	0.16060	0.02037	0.81110

2.00924	-11.03758	2.07355	-0.30915	-1.24807	0.83610	-0.00245	5.37176	0.16111	0.01983	0.82132
2.05634	-11.17265	2.08655	-0.30585	-1.24514	0.83761	-0.00245	5.36295	0.16178	0.01932	0.83131
2.10482	-11.30720	2.09940	-0.30250	-1.24231	0.83913	-0.00245	5.35056	0.16262	0.01881	0.84101
2.15424	-11.44010	2.11203	-0.29914	-1.23962	0.84067	-0.00245	5.33487	0.16361	0.01833	0.85013
2.20507	-11.57270	2.12457	-0.29571	-1.23704	0.84225	-0.00245	5.31611	0.16474	0.01786	0.85863
2.25683	-11.70399	2.13699	-0.29224	-1.23461	0.84389	-0.00245	5.29481	0.16600	0.01740	0.86650
2.31000	-11.83553	2.14945	-0.28868	-1.23229	0.84561	-0.00244	5.27113	0.16738	0.01696	0.87391
2.36463	-11.96766	2.16201	-0.28501	-1.23007	0.84742	-0.00244	5.24518	0.16886	0.01652	0.88096
2.42014	-12.09927	2.17460	-0.28127	-1.22796	0.84931	-0.00244	5.21745	0.17043	0.01608	0.88772
2.47709	-12.23175	2.18736	-0.27741	-1.22593	0.85130	-0.00244	5.18815	0.17208	0.01564	0.89441
2.53550	-12.36510	2.20031	-0.27344	-1.22400	0.85342	-0.00244	5.15780	0.17379	0.01519	0.90122
2.59471	-12.49816	2.21331	-0.26940	-1.22210	0.85558	-0.00243	5.12624	0.17553	0.01474	0.90818
2.65604	-12.63344	2.22658	-0.26518	-1.22026	0.85785	-0.00243	5.09386	0.17732	0.01429	0.91552
2.71887	-12.76945	2.23999	-0.26088	-1.21844	0.86019	-0.00243	5.06078	0.17913	0.01383	0.92322
2.78242	-12.90433	2.25334	-0.25654	-1.21670	0.86257	-0.00243	5.02782	0.18092	0.01337	0.93122
2.84819	-13.04048	2.26682	-0.25206	-1.21507	0.86509	-0.00243	4.99537	0.18274	0.01291	0.93980
2.91545	-13.17696	2.28034	-0.24755	-1.21339	0.86757	-0.00243	4.96211	0.18454	0.01246	0.94890
2.98329	-13.31086	2.29353	-0.24300	-1.21185	0.87007	-0.00243	4.93019	0.18631	0.01201	0.95830
3.05344	-13.44583	2.30681	-0.23841	-1.21030	0.87259	-0.00242	4.89807	0.18806	0.01158	0.96799
3.12598	-13.58111	2.32004	-0.23369	-1.20890	0.87519	-0.00242	4.86708	0.18982	0.01114	0.97780
3.19898	-13.71336	2.33290	-0.22907	-1.20752	0.87770	-0.00242	4.83681	0.19152	0.01074	0.98714
3.27439	-13.84573	2.34569	-0.22433	-1.20629	0.88027	-0.00242	4.80757	0.19321	0.01035	0.99602
3.35121	-13.97636	2.35819	-0.21966	-1.20505	0.88277	-0.00242	4.77882	0.19485	0.00997	1.00416
3.43053	-14.10686	2.37059	-0.21487	-1.20400	0.88535	-0.00241	4.75135	0.19649	0.00961	1.01192
3.51124	-14.23550	2.38269	-0.21019	-1.20289	0.88784	-0.00241	4.72418	0.19806	0.00926	1.01942
3.59324	-14.36146	2.39442	-0.20542	-1.20208	0.89041	-0.00241	4.69958	0.19961	0.00892	1.02704
3.67782	-14.48830	2.40619	-0.20077	-1.20105	0.89285	-0.00240	4.67359	0.20111	0.00859	1.03515
3.76506	-14.61313	2.41757	-0.19586	-1.20051	0.89551	-0.00240	4.65169	0.20260	0.00824	1.04428
3.85356	-14.73851	2.42910	-0.19123	-1.19954	0.89791	-0.00239	4.62678	0.20404	0.00792	1.05402
3.94477	-14.86034	2.43998	-0.18629	-1.19924	0.90060	-0.00239	4.60767	0.20544	0.00757	1.06455
4.03714	-14.98352	2.45121	-0.18159	-1.19852	0.90305	-0.00238	4.58535	0.20680	0.00726	1.07520
4.13223	-15.10414	2.46191	-0.17680	-1.19810	0.90561	-0.00238	4.56631	0.20811	0.00694	1.08600
4.23012	-15.22473	2.47264	-0.17179	-1.19800	0.90832	-0.00237	4.54940	0.20942	0.00662	1.09662
4.32900	-15.34635	2.48360	-0.16722	-1.19722	0.91065	-0.00237	4.52820	0.21064	0.00634	1.10634
4.43066	-15.46187	2.49356	-0.16215	-1.19754	0.91347	-0.00236	4.51604	0.21185	0.00603	1.11565
4.53515	-15.58297	2.50445	-0.15730	-1.19720	0.91599	-0.00236	4.49830	0.21304	0.00576	1.12419
4.64253	-15.70256	2.51496	-0.15259	-1.19679	0.91845	-0.00235	4.48140	0.21415	0.00549	1.13212
4.75059	-15.81457	2.52452	-0.14738	-1.19756	0.92138	-0.00234	4.47352	0.21526	0.00520	1.13958
4.86145	-15.93503	2.53543	-0.14271	-1.19706	0.92373	-0.00234	4.45591	0.21632	0.00496	1.14625
4.97760	-16.05255	2.54557	-0.13787	-1.19702	0.92630	-0.00233	4.44301	0.21733	0.00470	1.15268
5.09424	-16.16261	2.55484	-0.13251	-1.19819	0.92937	-0.00233	4.43889	0.21836	0.00441	1.15885
5.21376	-16.28333	2.56580	-0.12785	-1.19773	0.93167	-0.00232	4.42270	0.21932	0.00418	1.16431
5.33618	-16.39796	2.57565	-0.12323	-1.19764	0.93408	-0.00231	4.41097	0.22019	0.00394	1.16959
5.46150	-16.50326	2.58418	-0.11777	-1.19935	0.93732	-0.00230	4.41195	0.22113	0.00365	1.17512
5.58971	-16.62070	2.59470	-0.11294	-1.19941	0.93977	-0.00230	4.40064	0.22200	0.00341	1.18022
5.72082	-16.73904	2.60517	-0.10871	-1.19863	0.94176	-0.00229	4.38513	0.22274	0.00321	1.18518
5.85823	-16.84139	2.61302	-0.10324	-1.20069	0.94508	-0.00228	4.38977	0.22359	0.00291	1.19108
5.99520	-16.94905	2.62211	-0.09802	-1.20204	0.94802	-0.00227	4.38881	0.22440	0.00263	1.19683
6.13497	-17.07012	2.63321	-0.09389	-1.20102	0.94979	-0.00226	4.37248	0.22505	0.00246	1.20216
6.28141	-17.17808	2.64188	-0.08935	-1.20153	0.95224	-0.00226	4.36821	0.22569	0.00223	1.20813
6.42674	-17.26964	2.64850	-0.08385	-1.20450	0.95575	-0.00225	4.37974	0.22647	0.00191	1.21467
6.57895	-17.37922	2.65786	-0.07885	-1.20558	0.95843	-0.00224	4.37824	0.22715	0.00166	1.22105
6.73401	-17.50280	2.66915	-0.07508	-1.20397	0.95974	-0.00223	4.36062	0.22758	0.00152	1.22693
6.89180	-17.60125	2.67647	-0.07072	-1.20504	0.96221	-0.00222	4.36195	0.22811	0.00129	1.23349
7.05716	-17.68751	2.68204	-0.06504	-1.20888	0.96601	-0.00222	4.37940	0.22888	0.00096	1.24092
7.22022	-17.78805	2.69017	-0.06023	-1.21043	0.96866	-0.00221	4.38261	0.22945	0.00072	1.24753
7.39098	-17.91062	2.70139	-0.05655	-1.20896	0.96989	-0.00219	4.36904	0.22969	0.00059	1.25338
7.56430	-18.01710	2.70983	-0.05309	-1.20836	0.97137	-0.00219	4.36293	0.22991	0.00045	1.25910
7.73994	-18.08737	2.71309	-0.04783	-1.21295	0.97525	-0.00218	4.38532	0.23068	0.00012	1.26564
7.92393	-18.17471	2.71902	-0.04271	-1.21618	0.97855	-0.00217	4.39995	0.23128	-0.00017	1.27154
8.11030	-18.27907	2.72762	-0.03841	-1.21702	0.98066	-0.00216	4.40170	0.23160	-0.00036	1.27642
8.29876	-18.40513	2.73926	-0.03561	-1.21410	0.98088	-0.00215	4.38601	0.23137	-0.00040	1.27998
8.49618	-18.49775	2.74534	-0.03213	-1.21478	0.98271	-0.00214	4.38955	0.23156	-0.00056	1.28422
8.69565	-18.55332	2.74641	-0.02680	-1.22092	0.98713	-0.00213	4.41879	0.23252	-0.00093	1.28952
8.90472	-18.63612	2.75156	-0.02200	-1.22431	0.99029	-0.00212	4.43542	0.23303	-0.00120	1.29413
9.11577	-18.73083	2.75857	-0.01777	-1.22595	0.99253	-0.00211	4.44346	0.23330	-0.00140	1.29825
9.32836	-18.85781	2.77034	-0.01496	-1.22303	0.99250	-0.00210	4.43328	0.23278	-0.00142	1.30128
9.54198	-18.96927	2.77926	-0.01281	-1.22025	0.99236	-0.00209	4.42752	0.23210	-0.00142	1.30447
9.76563	-19.01285	2.77835	-0.00829	-1.22659	0.99662	-0.00208	4.45285	0.23329	-0.00177	1.31030
10.00000	-19.06650	2.77911	-0.00328	-1.23281	1.00092	-0.00208	4.48135	0.23423	-0.00211	1.31677

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
High stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 30 - 61 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.61890	3.40430	-0.04487	-1.72623	1.04168	-0.00101	1.29612	0.43946	-0.02415	0.37877
PGV	5.79111	1.81256	-0.10906	-3.00579	1.47814	-0.00130	10.79102	0.29646	-0.01443	0.45655
PGA	2.95549	1.64554	-0.05745	-2.90135	1.05103	-0.00172	5.65536	0.46432	-0.03121	0.75430
0.01000	3.88611	1.66659	-0.05303	-3.08179	1.04659	-0.00149	6.76042	0.44853	-0.00975	0.72136
0.01024	3.89793	1.66980	-0.05190	-3.08547	1.03960	-0.00147	6.75167	0.44981	-0.00989	0.72268
0.01048	3.91419	1.67300	-0.05077	-3.08999	1.03283	-0.00146	6.74744	0.45100	-0.01003	0.72407
0.01072	3.93558	1.67621	-0.04963	-3.09546	1.02627	-0.00144	6.74870	0.45209	-0.01020	0.72553
0.01097	3.96225	1.67943	-0.04849	-3.10189	1.01985	-0.00142	6.75581	0.45306	-0.01039	0.72709
0.01123	3.99373	1.68266	-0.04734	-3.10918	1.01350	-0.00140	6.76832	0.45394	-0.01059	0.72875
0.01150	4.02976	1.68589	-0.04618	-3.11727	1.00716	-0.00138	6.78598	0.45473	-0.01082	0.73049
0.01177	4.07059	1.68912	-0.04503	-3.12620	1.00084	-0.00135	6.80907	0.45542	-0.01106	0.73227
0.01205	4.11650	1.69238	-0.04387	-3.13605	0.99457	-0.00133	6.83781	0.45601	-0.01131	0.73411
0.01233	4.16554	1.69566	-0.04270	-3.14647	0.98836	-0.00131	6.86941	0.45656	-0.01158	0.73602
0.01262	4.21593	1.69895	-0.04151	-3.15714	0.98217	-0.00128	6.90135	0.45710	-0.01186	0.73798
0.01292	4.26797	1.70226	-0.04030	-3.16810	0.97597	-0.00126	6.93407	0.45763	-0.01215	0.73996
0.01322	4.31910	1.70556	-0.03906	-3.17886	0.96968	-0.00123	6.96444	0.45820	-0.01244	0.74196
0.01353	4.36695	1.70882	-0.03779	-3.18895	0.96324	-0.00121	6.98972	0.45886	-0.01275	0.74406
0.01385	4.41459	1.71207	-0.03649	-3.19892	0.95673	-0.00119	7.01417	0.45954	-0.01308	0.74630
0.01417	4.46492	1.71536	-0.03516	-3.20934	0.95023	-0.00116	7.04137	0.46018	-0.01340	0.74854
0.01451	4.52178	1.71868	-0.03384	-3.22091	0.94372	-0.00114	7.07664	0.46070	-0.01373	0.75078
0.01485	4.58486	1.72201	-0.03255	-3.23351	0.93706	-0.00111	7.11972	0.46110	-0.01407	0.75318
0.01520	4.65056	1.72534	-0.03127	-3.24648	0.93015	-0.00109	7.16530	0.46149	-0.01443	0.75573
0.01556	4.71928	1.72873	-0.02997	-3.25996	0.92312	-0.00106	7.21356	0.46185	-0.01479	0.75834
0.01592	4.79285	1.73219	-0.02866	-3.27432	0.91603	-0.00103	7.26660	0.46215	-0.01516	0.76110
0.01630	4.87123	1.73576	-0.02736	-3.28958	0.90897	-0.00100	7.32427	0.46241	-0.01553	0.76395
0.01668	4.94796	1.73937	-0.02606	-3.30455	0.90193	-0.00097	7.37820	0.46273	-0.01590	0.76682
0.01707	5.00971	1.74291	-0.02472	-3.31674	0.89446	-0.00095	7.41027	0.46341	-0.01627	0.76971
0.01748	5.04646	1.74631	-0.02323	-3.32430	0.88630	-0.00093	7.40713	0.46465	-0.01664	0.77273
0.01789	5.07062	1.74968	-0.02164	-3.32954	0.87803	-0.00091	7.38618	0.46618	-0.01704	0.77594
0.01831	5.10320	1.75317	-0.02003	-3.33633	0.87009	-0.00089	7.37544	0.46757	-0.01745	0.77918
0.01874	5.14094	1.75678	-0.01845	-3.34406	0.86221	-0.00088	7.37000	0.46889	-0.01781	0.78219
0.01918	5.16964	1.76036	-0.01684	-3.35010	0.85395	-0.00086	7.35130	0.47044	-0.01812	0.78492
0.01963	5.18526	1.76386	-0.01518	-3.35365	0.84529	-0.00085	7.31536	0.47227	-0.01842	0.78758
0.02009	5.18831	1.76718	-0.01352	-3.35477	0.83652	-0.00084	7.26493	0.47432	-0.01875	0.79043
0.02057	5.17394	1.77034	-0.01189	-3.35261	0.82784	-0.00084	7.19389	0.47668	-0.01910	0.79337
0.02105	5.13923	1.77335	-0.01025	-3.34670	0.81924	-0.00084	7.09805	0.47944	-0.01938	0.79593
0.02154	5.09680	1.77631	-0.00857	-3.33928	0.81073	-0.00085	6.99470	0.48236	-0.01962	0.79817
0.02205	5.06610	1.77931	-0.00692	-3.33382	0.80217	-0.00085	6.90857	0.48503	-0.01990	0.80070
0.02257	5.05602	1.78251	-0.00538	-3.33203	0.79336	-0.00085	6.84851	0.48731	-0.02021	0.80347
0.02310	5.06423	1.78598	-0.00390	-3.33360	0.78446	-0.00084	6.80994	0.48928	-0.02047	0.80587
0.02364	5.06717	1.78953	-0.00233	-3.33422	0.77545	-0.00084	6.76432	0.49141	-0.02066	0.80788
0.02420	5.04775	1.79301	-0.00065	-3.33064	0.76615	-0.00084	6.69217	0.49404	-0.02082	0.80975
0.02477	5.02440	1.79653	0.00099	-3.32619	0.75644	-0.00084	6.61658	0.49679	-0.02094	0.81132
0.02535	5.01749	1.80014	0.00245	-3.32452	0.74626	-0.00084	6.56219	0.49921	-0.02099	0.81244
0.02595	5.02001	1.80375	0.00377	-3.32436	0.73599	-0.00084	6.52149	0.50140	-0.02105	0.81368
0.02656	5.01238	1.80727	0.00512	-3.32221	0.72638	-0.00084	6.47266	0.50371	-0.02123	0.81565
0.02719	4.97112	1.81059	0.00662	-3.31391	0.71730	-0.00086	6.38764	0.50666	-0.02143	0.81782
0.02783	4.89684	1.81362	0.00822	-3.29963	0.70816	-0.00088	6.26592	0.51028	-0.02154	0.81940
0.02848	4.82878	1.81656	0.00970	-3.28647	0.69919	-0.00090	6.15252	0.51376	-0.02153	0.82026
0.02915	4.79557	1.81958	0.01096	-3.27958	0.69078	-0.00091	6.07993	0.51644	-0.02144	0.82068
0.02984	4.77492	1.82260	0.01220	-3.27492	0.68289	-0.00092	6.02268	0.51882	-0.02131	0.82094
0.03054	4.72291	1.82541	0.01370	-3.26457	0.67521	-0.00094	5.93195	0.52185	-0.02119	0.82135
0.03126	4.62371	1.82791	0.01555	-3.24563	0.66709	-0.00097	5.79101	0.52594	-0.02117	0.82250
0.03199	4.48881	1.83028	0.01769	-3.22022	0.65803	-0.00100	5.61304	0.53094	-0.02131	0.82482
0.03275	4.32828	1.83268	0.01994	-3.19033	0.64815	-0.00105	5.40953	0.53669	-0.02147	0.82731
0.03352	4.15506	1.83495	0.02216	-3.15819	0.63847	-0.00109	5.19722	0.54278	-0.02151	0.82904
0.03430	4.00143	1.83699	0.02416	-3.12931	0.63053	-0.00114	5.01385	0.54828	-0.02150	0.83046
0.03511	3.88316	1.83914	0.02590	-3.10659	0.62419	-0.00118	4.87413	0.55280	-0.02146	0.83171
0.03594	3.76553	1.84167	0.02751	-3.08420	0.61784	-0.00122	4.73734	0.55741	-0.02121	0.83176
0.03678	3.61017	1.84431	0.02919	-3.05540	0.61110	-0.00126	4.56439	0.56309	-0.02074	0.83044
0.03765	3.42985	1.84647	0.03086	-3.02205	0.60471	-0.00132	4.37257	0.56938	-0.02032	0.82942
0.03854	3.26182	1.84788	0.03241	-2.99028	0.59880	-0.00137	4.19996	0.57522	-0.02017	0.83014
0.03944	3.12895	1.84875	0.03383	-2.96408	0.59291	-0.00141	4.06570	0.58008	-0.02027	0.83252
0.04037	3.02878	1.84949	0.03526	-2.94318	0.58707	-0.00145	3.96529	0.58406	-0.02046	0.83540
0.04132	2.94067	1.85034	0.03677	-2.92405	0.58086	-0.00149	3.87906	0.58777	-0.02057	0.83766
0.04229	2.83881	1.85146	0.03828	-2.90228	0.57312	-0.00152	3.78222	0.59204	-0.02052	0.83886
0.04329	2.70316	1.85290	0.03981	-2.87458	0.56331	-0.00156	3.65558	0.59758	-0.02034	0.83911
0.04431	2.53482	1.85457	0.04149	-2.84141	0.55211	-0.00161	3.50084	0.60435	-0.02002	0.83841
0.04535	2.34518	1.85625	0.04347	-2.80493	0.54119	-0.00166	3.33023	0.61191	-0.01954	0.83656

0.04642	2.15149	1.85763	0.04559	-2.76814	0.53254	-0.00171	3.16124	0.61952	-0.01886	0.83333
0.04751	1.98174	1.85828	0.04742	-2.73541	0.52709	-0.00176	3.01847	0.62611	-0.01808	0.82936
0.04863	1.85071	1.85784	0.04865	-2.70862	0.52396	-0.00181	2.91365	0.63108	-0.01738	0.82588
0.04977	1.74072	1.85659	0.04938	-2.68460	0.52135	-0.00185	2.83095	0.63511	-0.01671	0.82258
0.05094	1.62261	1.85513	0.04996	-2.65878	0.51778	-0.00190	2.74480	0.63943	-0.01591	0.81841
0.05214	1.49744	1.85395	0.05056	-2.63190	0.51282	-0.00194	2.65332	0.64423	-0.01504	0.81373
0.05337	1.38457	1.85333	0.05112	-2.60775	0.50711	-0.00198	2.56954	0.64890	-0.01424	0.80949
0.05462	1.28401	1.85296	0.05157	-2.58623	0.50223	-0.00201	2.49422	0.65326	-0.01363	0.80658
0.05591	1.18616	1.85212	0.05202	-2.56507	0.50041	-0.00205	2.42382	0.65725	-0.01334	0.80575
0.05722	1.09342	1.85076	0.05253	-2.54453	0.50282	-0.00210	2.36300	0.66055	-0.01330	0.80658
0.05857	1.00831	1.84974	0.05309	-2.52575	0.50807	-0.00215	2.31228	0.66324	-0.01323	0.80729
0.05995	0.92459	1.84941	0.05362	-2.50806	0.51345	-0.00220	2.26326	0.66590	-0.01286	0.80626
0.06136	0.83829	1.84889	0.05388	-2.48994	0.51711	-0.00225	2.21098	0.66882	-0.01216	0.80330
0.06280	0.75342	1.84711	0.05356	-2.47094	0.51888	-0.00229	2.15825	0.67177	-0.01127	0.79932
0.06428	0.67045	1.84376	0.05259	-2.45088	0.51931	-0.00232	2.10560	0.67466	-0.01037	0.79539
0.06579	0.58304	1.83867	0.05116	-2.42877	0.51828	-0.00235	2.04759	0.67779	-0.00953	0.79191
0.06734	0.48115	1.83149	0.04961	-2.40291	0.51599	-0.00238	1.97714	0.68155	-0.00874	0.78867
0.06893	0.36586	1.82216	0.04829	-2.37336	0.51441	-0.00240	1.89857	0.68563	-0.00801	0.78567
0.07055	0.25314	1.81157	0.04729	-2.34329	0.51619	-0.00244	1.82691	0.68909	-0.00729	0.78250
0.07221	0.16247	1.80152	0.04645	-2.31727	0.52202	-0.00249	1.77599	0.69112	-0.00647	0.77838
0.07391	0.10415	1.79359	0.04553	-2.29825	0.53033	-0.00254	1.75053	0.69159	-0.00549	0.77287
0.07565	0.06540	1.78842	0.04443	-2.28451	0.53903	-0.00259	1.73982	0.69141	-0.00440	0.76639
0.07743	0.02798	1.78559	0.04304	-2.27284	0.54720	-0.00263	1.72921	0.69158	-0.00332	0.76005
0.07925	-0.01387	1.78399	0.04124	-2.26177	0.55474	-0.00267	1.71272	0.69233	-0.00234	0.75455
0.08111	-0.06374	1.78240	0.03916	-2.24972	0.56120	-0.00271	1.68836	0.69366	-0.00148	0.74996
0.08302	-0.11950	1.77950	0.03693	-2.23588	0.56639	-0.00274	1.65845	0.69526	-0.00077	0.74635
0.08498	-0.18421	1.77429	0.03464	-2.21871	0.57009	-0.00276	1.62170	0.69716	-0.00024	0.74396
0.08697	-0.26915	1.76661	0.03245	-2.19584	0.57235	-0.00279	1.57218	0.69989	0.00009	0.74288
0.08902	-0.37796	1.75681	0.03040	-2.16679	0.57345	-0.00282	1.50895	0.70367	0.00031	0.74268
0.09112	-0.51426	1.74552	0.02859	-2.13139	0.57264	-0.00286	1.43078	0.70889	0.00057	0.74239
0.09326	-0.66958	1.73305	0.02691	-2.09152	0.56911	-0.00290	1.34241	0.71541	0.00096	0.74138
0.09545	-0.82592	1.71968	0.02511	-2.05086	0.56273	-0.00292	1.25327	0.72252	0.00140	0.74018
0.09770	-0.96903	1.70580	0.02302	-2.01238	0.55427	-0.00293	1.17109	0.72948	0.00172	0.73990
0.10000	-1.09113	1.69201	0.02064	-1.97788	0.54578	-0.00293	1.10111	0.73559	0.00182	0.74140
0.10235	-1.18984	1.67940	0.01807	-1.94869	0.53978	-0.00293	1.04592	0.74038	0.00171	0.74448
0.10476	-1.26310	1.66891	0.01528	-1.92611	0.53827	-0.00293	1.00693	0.74345	0.00159	0.74796
0.10723	-1.31009	1.66096	0.01219	-1.91080	0.54189	-0.00294	0.98408	0.74459	0.00168	0.75019
0.10975	-1.33434	1.65548	0.00870	-1.90209	0.54963	-0.00295	0.97490	0.74404	0.00218	0.74980
0.11233	-1.34502	1.65197	0.00488	-1.89766	0.55995	-0.00296	0.97456	0.74241	0.00311	0.74646
0.11498	-1.35311	1.64947	0.00093	-1.89430	0.57174	-0.00298	0.97779	0.74040	0.00430	0.74122
0.11768	-1.36291	1.64713	-0.00296	-1.89012	0.58443	-0.00301	0.98263	0.73826	0.00548	0.73580
0.12045	-1.37169	1.64480	-0.00676	-1.88538	0.59801	-0.00305	0.99045	0.73585	0.00651	0.73104
0.12328	-1.37745	1.64276	-0.01057	-1.88085	0.61231	-0.00310	1.00199	0.73309	0.00741	0.72669
0.12619	-1.38409	1.64107	-0.01442	-1.87615	0.62647	-0.00315	1.01462	0.73033	0.00823	0.72252
0.12916	-1.39794	1.63926	-0.01826	-1.87003	0.63968	-0.00320	1.02388	0.72801	0.00894	0.71874
0.13219	-1.42223	1.63656	-0.02207	-1.86162	0.65135	-0.00324	1.02616	0.72643	0.00954	0.71545
0.13531	-1.45555	1.63233	-0.02591	-1.85099	0.66093	-0.00327	1.02024	0.72559	0.01010	0.71234
0.13849	-1.49614	1.62622	-0.02993	-1.83834	0.66763	-0.00329	1.00577	0.72550	0.01064	0.70920
0.14175	-1.54714	1.61829	-0.03411	-1.82306	0.67051	-0.00329	0.98094	0.72648	0.01113	0.70636
0.14508	-1.61122	1.60887	-0.03842	-1.80462	0.66872	-0.00327	0.94563	0.72879	0.01151	0.70420
0.14850	-1.68490	1.59824	-0.04294	-1.78351	0.66197	-0.00324	0.90321	0.73220	0.01174	0.70280
0.15199	-1.77088	1.58666	-0.04761	-1.75915	0.65063	-0.00319	0.85405	0.73689	0.01183	0.70207
0.15557	-1.85782	1.57406	-0.05260	-1.73337	0.63709	-0.00315	0.80524	0.74184	0.01181	0.70180
0.15923	-1.93784	1.56080	-0.05785	-1.70788	0.62400	-0.00310	0.76179	0.74619	0.01169	0.70201
0.16298	-2.00576	1.54791	-0.06321	-1.68454	0.61338	-0.00306	0.72717	0.74932	0.01151	0.70258
0.16681	-2.05660	1.53654	-0.06861	-1.66530	0.60635	-0.00304	0.70427	0.75067	0.01132	0.70328
0.17074	-2.08969	1.52752	-0.07409	-1.65113	0.60275	-0.00302	0.69327	0.75018	0.01119	0.70395
0.17475	-2.10644	1.52130	-0.07975	-1.64240	0.60172	-0.00300	0.69290	0.74809	0.01122	0.70400
0.17887	-2.11267	1.51822	-0.08551	-1.63864	0.60208	-0.00299	0.69956	0.74512	0.01155	0.70244
0.18307	-2.11513	1.51818	-0.09125	-1.63880	0.60293	-0.00297	0.70920	0.74204	0.01223	0.69875
0.18738	-2.11741	1.52065	-0.09682	-1.64192	0.60438	-0.00295	0.71948	0.73915	0.01313	0.69373
0.19179	-2.12270	1.52459	-0.10209	-1.64646	0.60688	-0.00293	0.72861	0.73656	0.01396	0.68906
0.19631	-2.13705	1.52883	-0.10700	-1.65015	0.61069	-0.00291	0.73387	0.73453	0.01459	0.68567
0.20092	-2.16444	1.53259	-0.11160	-1.65149	0.61594	-0.00290	0.73361	0.73314	0.01503	0.68333
0.20565	-2.20448	1.53539	-0.11599	-1.65007	0.62276	-0.00290	0.72831	0.73221	0.01536	0.68142
0.21049	-2.25437	1.53721	-0.12032	-1.64628	0.63132	-0.00291	0.71990	0.73141	0.01570	0.67925
0.21544	-2.31241	1.53848	-0.12464	-1.64073	0.64122	-0.00293	0.70957	0.73064	0.01620	0.67585
0.22051	-2.37631	1.53953	-0.12901	-1.63413	0.65126	-0.00295	0.69825	0.72988	0.01698	0.67065
0.22570	-2.44084	1.54039	-0.13353	-1.62747	0.66070	-0.00297	0.68791	0.72883	0.01801	0.66406
0.23101	-2.49924	1.54076	-0.13834	-1.62166	0.66991	-0.00298	0.68136	0.72692	0.01914	0.65714
0.23645	-2.55007	1.54041	-0.14345	-1.61667	0.67960	-0.00299	0.67901	0.72402	0.02017	0.65128
0.24201	-2.58885	1.53914	-0.14888	-1.61305	0.69064	-0.00299	0.68253	0.71981	0.02093	0.64758
0.24771	-2.61921	1.53705	-0.15452	-1.61010	0.70293	-0.00299	0.69009	0.71471	0.02138	0.64641
0.25354	-2.64332	1.53420	-0.16027	-1.60734	0.71591	-0.00299	0.70069	0.70899	0.02153	0.64746
0.25950	-2.66352	1.53082	-0.16603	-1.60450	0.72901	-0.00299	0.71336	0.70293	0.02150	0.64996
0.26561	-2.68291	1.52721	-0.17170	-1.60120	0.74177	-0.00299	0.72681	0.69687	0.02135	0.65332
0.27186	-2.70220	1.52352	-0.17732	-1.59735	0.75388	-0.00299	0.74104	0.69086	0.02109	0.65730
0.27826	-2.72171	1.51981	-0.18293	-1.59289	0.76486	-0.00299	0.75588	0.68497	0.02070	0.66190
0.28480	-2.73943	1.51621	-0.18858	-1.58833	0.77430	-0.00299	0.77243	0.67908	0.02019	0.66703
0.29150	-2.75477	1.51305	-0.19425	-1.58412	0.78191	-0.00299	0.79141	0.67314	0.01963	0.67211
0.29836	-2.76584	1.51066	-0.19989	-1.58108	0.78793	-0.00297	0.81403	0.66707	0.01908	0.67671

0.30539	-2.77270	1.50927	-0.20540	-1.57946	0.79259	-0.00296	0.84062	0.66087	0.01859	0.68062
0.31257	-2.77522	1.50878	-0.21073	-1.57925	0.79603	-0.00293	0.87137	0.65456	0.01813	0.68414
0.31993	-2.77444	1.50894	-0.21584	-1.58008	0.79836	-0.00290	0.90583	0.64819	0.01767	0.68748
0.32745	-2.77129	1.50962	-0.22072	-1.58164	0.79973	-0.00286	0.94361	0.64181	0.01724	0.69064
0.33517	-2.76470	1.51064	-0.22542	-1.58403	0.80071	-0.00283	0.98530	0.63534	0.01678	0.69394
0.34304	-2.75532	1.51205	-0.22991	-1.58717	0.80188	-0.00278	1.03012	0.62890	0.01629	0.69744
0.35112	-2.74278	1.51397	-0.23421	-1.59133	0.80355	-0.00274	1.07863	0.62244	0.01580	0.70101
0.35938	-2.72437	1.51650	-0.23833	-1.59722	0.80610	-0.00270	1.13218	0.61587	0.01531	0.70455
0.36784	-2.69824	1.51979	-0.24229	-1.60542	0.80982	-0.00266	1.19279	0.60899	0.01486	0.70787
0.37649	-2.66148	1.52381	-0.24617	-1.61652	0.81486	-0.00262	1.26344	0.60154	0.01446	0.71084
0.38536	-2.61320	1.52838	-0.25006	-1.63057	0.82123	-0.00258	1.34551	0.59350	0.01413	0.71332
0.39442	-2.55962	1.53330	-0.25393	-1.64624	0.82806	-0.00254	1.43536	0.58522	0.01395	0.71473
0.40370	-2.50844	1.53837	-0.25778	-1.66195	0.83430	-0.00251	1.52717	0.57715	0.01396	0.71488
0.41321	-2.46528	1.54349	-0.26161	-1.67665	0.83919	-0.00247	1.61447	0.56976	0.01411	0.71402
0.42292	-2.43337	1.54872	-0.26544	-1.68984	0.84249	-0.00243	1.69269	0.56327	0.01438	0.71242
0.43288	-2.42214	1.55382	-0.26927	-1.69952	0.84406	-0.00239	1.75281	0.55807	0.01479	0.70998
0.44307	-2.43241	1.55892	-0.27314	-1.70569	0.84401	-0.00236	1.79254	0.55416	0.01530	0.70724
0.45349	-2.46440	1.56395	-0.27709	-1.70819	0.84338	-0.00233	1.81109	0.55150	0.01587	0.70442
0.46417	-2.51931	1.56896	-0.28104	-1.70685	0.84174	-0.00231	1.80800	0.55005	0.01641	0.70228
0.47508	-2.59699	1.57411	-0.28490	-1.70182	0.83968	-0.00230	1.78580	0.54959	0.01679	0.70159
0.48626	-2.69930	1.57937	-0.28861	-1.69271	0.83779	-0.00231	1.74377	0.55024	0.01695	0.70284
0.49771	-2.82248	1.58471	-0.29223	-1.68019	0.83671	-0.00232	1.68585	0.55181	0.01690	0.70603
0.50942	-2.95949	1.59032	-0.29578	-1.66581	0.83721	-0.00235	1.62076	0.55377	0.01670	0.71069
0.52140	-3.10545	1.59634	-0.29930	-1.65069	0.83897	-0.00239	1.55470	0.55566	0.01646	0.71609
0.53367	-3.25434	1.60280	-0.30294	-1.63600	0.84177	-0.00243	1.49341	0.55710	0.01626	0.72151
0.54624	-3.40266	1.60967	-0.30683	-1.62231	0.84547	-0.00247	1.43998	0.55787	0.01620	0.72638
0.55910	-3.54987	1.61682	-0.31098	-1.60952	0.84901	-0.00251	1.39480	0.55787	0.01628	0.73047
0.57225	-3.69844	1.62430	-0.31531	-1.59712	0.85145	-0.00254	1.35649	0.55715	0.01649	0.73367
0.58569	-3.85094	1.63209	-0.31976	-1.58449	0.85203	-0.00258	1.32241	0.55593	0.01683	0.73591
0.59948	-4.00718	1.63986	-0.32435	-1.57145	0.85080	-0.00261	1.29106	0.55428	0.01729	0.73717
0.61357	-4.16891	1.64688	-0.32901	-1.55692	0.84693	-0.00263	1.25859	0.55247	0.01787	0.73758
0.62802	-4.33923	1.65312	-0.33361	-1.54027	0.84039	-0.00265	1.22337	0.55060	0.01849	0.73746
0.64280	-4.51937	1.65890	-0.33802	-1.52143	0.83193	-0.00267	1.18551	0.54865	0.01913	0.73688
0.65794	-4.70841	1.66434	-0.34224	-1.50064	0.82174	-0.00269	1.14618	0.54655	0.01980	0.73573
0.67340	-4.90263	1.66931	-0.34635	-1.47842	0.80992	-0.00271	1.10698	0.54417	0.02056	0.73361
0.68927	-5.09613	1.67368	-0.35048	-1.45581	0.79689	-0.00272	1.07246	0.54104	0.02149	0.73023
0.70547	-5.28130	1.67748	-0.35466	-1.43431	0.78327	-0.00273	1.04762	0.53661	0.02257	0.72553
0.72207	-5.45604	1.68114	-0.35881	-1.41492	0.76981	-0.00273	1.03563	0.53045	0.02379	0.71947
0.73910	-5.62018	1.68521	-0.36281	-1.39820	0.75712	-0.00272	1.03745	0.52252	0.02508	0.71216
0.75649	-5.77237	1.68997	-0.36649	-1.38474	0.74611	-0.00271	1.05406	0.51287	0.02639	0.70384
0.77429	-5.91262	1.69524	-0.36983	-1.37445	0.73726	-0.00269	1.08527	0.50168	0.02766	0.69465
0.79246	-6.04077	1.70066	-0.37286	-1.36689	0.73060	-0.00267	1.13039	0.48924	0.02885	0.68483
0.81116	-6.15810	1.70605	-0.37562	-1.36171	0.72611	-0.00265	1.19100	0.47551	0.02994	0.67471
0.83022	-6.26350	1.71150	-0.37804	-1.35909	0.72428	-0.00263	1.26910	0.46060	0.03089	0.66478
0.84976	-6.35864	1.71734	-0.38006	-1.35907	0.72522	-0.00261	1.36798	0.44451	0.03170	0.65527
0.86972	-6.44600	1.72370	-0.38170	-1.36115	0.72816	-0.00260	1.48720	0.42769	0.03237	0.64646
0.89023	-6.52960	1.73054	-0.38299	-1.36449	0.73214	-0.00257	1.62484	0.41054	0.03294	0.63864
0.91116	-6.60831	1.73760	-0.38397	-1.36899	0.73736	-0.00255	1.78056	0.39337	0.03342	0.63214
0.93257	-6.68268	1.74463	-0.38469	-1.37431	0.74372	-0.00254	1.95434	0.37631	0.03382	0.62692
0.95456	-6.75330	1.75147	-0.38518	-1.38024	0.75100	-0.00252	2.14706	0.35942	0.03415	0.62306
0.97704	-6.82140	1.75816	-0.38544	-1.38646	0.75874	-0.00250	2.35742	0.34287	0.03438	0.62064
1.00000	-6.88962	1.76494	-0.38541	-1.39266	0.76664	-0.00248	2.58314	0.32682	0.03450	0.61968
1.02354	-6.95988	1.77213	-0.38506	-1.39882	0.77480	-0.00247	2.82359	0.31132	0.03451	0.62005
1.04767	-7.03389	1.77989	-0.38436	-1.40472	0.78314	-0.00245	3.07529	0.29652	0.03441	0.62162
1.07227	-7.11210	1.78813	-0.38336	-1.41011	0.79149	-0.00244	3.33296	0.28257	0.03422	0.62421
1.09745	-7.19497	1.79665	-0.38213	-1.41475	0.79967	-0.00243	3.59326	0.26948	0.03396	0.62761
1.12334	-7.28159	1.80524	-0.38074	-1.41865	0.80769	-0.00242	3.85587	0.25713	0.03366	0.63169
1.14982	-7.36982	1.81365	-0.37925	-1.42196	0.81564	-0.00241	4.11988	0.24549	0.03334	0.63628
1.17675	-7.45837	1.82181	-0.37769	-1.42481	0.82353	-0.00240	4.38404	0.23457	0.03300	0.64119
1.20453	-7.54916	1.82996	-0.37602	-1.42723	0.83146	-0.00240	4.65050	0.22418	0.03265	0.64630
1.23289	-7.64327	1.83821	-0.37424	-1.42899	0.83914	-0.00240	4.91162	0.21450	0.03228	0.65139
1.26183	-7.74261	1.84680	-0.37231	-1.42987	0.84631	-0.00240	5.16188	0.20557	0.03191	0.65638
1.29149	-7.84880	1.85590	-0.37022	-1.42980	0.85287	-0.00239	5.39810	0.19737	0.03152	0.66134
1.32188	-7.96193	1.86555	-0.36796	-1.42877	0.85879	-0.00239	5.61765	0.18990	0.03111	0.66635
1.35300	-8.08192	1.87565	-0.36558	-1.42669	0.86396	-0.00240	5.81709	0.18315	0.03069	0.67149
1.38485	-8.20781	1.88603	-0.36310	-1.42358	0.86833	-0.00240	5.99493	0.17707	0.03026	0.67687
1.41743	-8.33821	1.89649	-0.36056	-1.41954	0.87194	-0.00240	6.15118	0.17163	0.02983	0.68261
1.45075	-8.47165	1.90686	-0.35800	-1.41470	0.87484	-0.00240	6.28688	0.16676	0.02940	0.68874
1.48500	-8.60743	1.91710	-0.35542	-1.40927	0.87722	-0.00240	6.40539	0.16238	0.02897	0.69529
1.51999	-8.74429	1.92716	-0.35284	-1.40336	0.87908	-0.00241	6.50615	0.15849	0.02856	0.70218
1.55569	-8.88217	1.93711	-0.35024	-1.39707	0.88052	-0.00241	6.58968	0.15508	0.02814	0.70941
1.59236	-9.02220	1.94715	-0.34758	-1.39043	0.88159	-0.00242	6.65696	0.15211	0.02773	0.71700
1.62973	-9.16387	1.95737	-0.34485	-1.38356	0.88235	-0.00242	6.70738	0.14960	0.02730	0.72488
1.66806	-9.30846	1.96794	-0.34200	-1.37646	0.88283	-0.00242	6.74173	0.14752	0.02687	0.73308
1.70736	-9.45602	1.97895	-0.33902	-1.36919	0.88310	-0.00243	6.76077	0.14585	0.02641	0.74159
1.74764	-9.60629	1.99042	-0.33591	-1.36184	0.88319	-0.00243	6.76569	0.14459	0.02594	0.75044
1.78859	-9.75759	2.00221	-0.33269	-1.35451	0.88316	-0.00243	6.75806	0.14371	0.02545	0.75953
1.83083	-9.91130	2.01443	-0.32934	-1.34721	0.88309	-0.00244	6.74005	0.14316	0.02494	0.76898
1.87371	-10.06404	2.02676	-0.32593	-1.34013	0.88304	-0.00244	6.71427	0.14291	0.02443	0.77862
1.91791	-10.21720	2.03928	-0.32244	-1.33326	0.88306	-0.00244	6.68250	0.14292	0.02392	0.78852
1.96309	-10.36855	2.05177	-0.31890	-1.32673	0.88322	-0.00245	6.64677	0.14319	0.02341	0.79847

2.00924	-10.51735	2.06414	-0.31535	-1.32061	0.88356	-0.00245	6.60885	0.14366	0.02292	0.80833
2.05634	-10.66312	2.07632	-0.31179	-1.31493	0.88410	-0.00245	6.56984	0.14432	0.02244	0.81794
2.10482	-10.80704	2.08840	-0.30821	-1.30964	0.88485	-0.00246	6.52967	0.14516	0.02198	0.82723
2.15424	-10.94779	2.10029	-0.30462	-1.30479	0.88583	-0.00246	6.48907	0.14617	0.02154	0.83593
2.20507	-11.08715	2.11212	-0.30098	-1.30029	0.88699	-0.00246	6.44667	0.14737	0.02112	0.84401
2.25683	-11.22417	2.12386	-0.29733	-1.29614	0.88832	-0.00246	6.40269	0.14874	0.02070	0.85149
2.31000	-11.36071	2.13566	-0.29360	-1.29226	0.88979	-0.00246	6.35605	0.15028	0.02029	0.85854
2.36463	-11.49740	2.14758	-0.28980	-1.28855	0.89134	-0.00247	6.30605	0.15199	0.01986	0.86531
2.42014	-11.63316	2.15957	-0.28595	-1.28505	0.89297	-0.00247	6.25332	0.15385	0.01943	0.87186
2.47709	-11.76943	2.17174	-0.28199	-1.28171	0.89469	-0.00247	6.19784	0.15585	0.01897	0.87844
2.53550	-11.90638	2.18413	-0.27794	-1.27853	0.89649	-0.00247	6.13987	0.15798	0.01849	0.88521
2.59471	-12.04261	2.19661	-0.27384	-1.27550	0.89833	-0.00247	6.08048	0.16019	0.01800	0.89224
2.65604	-12.18072	2.20940	-0.26959	-1.27260	0.90029	-0.00247	6.01957	0.16251	0.01747	0.89974
2.71887	-12.31932	2.22235	-0.26525	-1.26982	0.90230	-0.00247	5.95792	0.16488	0.01693	0.90767
2.78242	-12.45659	2.23528	-0.26089	-1.26718	0.90435	-0.00247	5.89669	0.16727	0.01639	0.91598
2.84819	-12.59475	2.24836	-0.25640	-1.26473	0.90654	-0.00247	5.83653	0.16969	0.01582	0.92493
2.91545	-12.73279	2.26153	-0.25188	-1.26237	0.90878	-0.00247	5.77686	0.17212	0.01526	0.93444
2.98329	-12.86755	2.27438	-0.24734	-1.26030	0.91111	-0.00247	5.72078	0.17450	0.01470	0.94427
3.05344	-13.00325	2.28736	-0.24277	-1.25828	0.91351	-0.00247	5.66517	0.17689	0.01414	0.95442
3.12598	-13.13865	2.30029	-0.23807	-1.25650	0.91606	-0.00247	5.61232	0.17926	0.01359	0.96469
3.19898	-13.27078	2.31287	-0.23349	-1.25483	0.91859	-0.00247	5.56194	0.18154	0.01307	0.97450
3.27439	-13.40242	2.32537	-0.22881	-1.25339	0.92127	-0.00247	5.51426	0.18382	0.01256	0.98385
3.35121	-13.53203	2.33761	-0.22420	-1.25203	0.92395	-0.00247	5.46878	0.18601	0.01209	0.99244
3.43053	-13.66096	2.34974	-0.21948	-1.25093	0.92678	-0.00247	5.42621	0.18819	0.01162	1.00063
3.51124	-13.78791	2.36160	-0.21487	-1.24985	0.92957	-0.00247	5.38541	0.19028	0.01117	1.00852
3.59324	-13.91154	2.37307	-0.21018	-1.24913	0.93250	-0.00246	5.34921	0.19230	0.01074	1.01651
3.67782	-14.03626	2.38464	-0.20561	-1.24824	0.93535	-0.00246	5.31221	0.19428	0.01032	1.02498
3.76506	-14.15799	2.39572	-0.20081	-1.24789	0.93845	-0.00246	5.28161	0.19619	0.00990	1.03442
3.85356	-14.28096	2.40710	-0.19625	-1.24716	0.94132	-0.00246	5.24792	0.19806	0.00950	1.04449
3.94477	-14.39921	2.41768	-0.19144	-1.24711	0.94449	-0.00245	5.22268	0.19983	0.00909	1.05528
4.03714	-14.51952	2.42875	-0.18682	-1.24670	0.94744	-0.00245	5.19380	0.20158	0.00871	1.06621
4.13223	-14.63677	2.43923	-0.18213	-1.24659	0.95049	-0.00245	5.16985	0.20322	0.00833	1.07725
4.23012	-14.75350	2.44969	-0.17724	-1.24682	0.95370	-0.00244	5.14926	0.20483	0.00796	1.08808
4.32900	-14.87249	2.46056	-0.17273	-1.24640	0.95651	-0.00244	5.12316	0.20640	0.00763	1.09803
4.43066	-14.98359	2.47017	-0.16781	-1.24705	0.95980	-0.00244	5.10961	0.20782	0.00729	1.10748
4.53515	-15.10148	2.48092	-0.16305	-1.24710	0.96280	-0.00243	5.08882	0.20930	0.00697	1.11621
4.64253	-15.21801	2.49131	-0.15841	-1.24707	0.96569	-0.00243	5.06929	0.21068	0.00666	1.12430
4.75059	-15.32516	2.50048	-0.15338	-1.24818	0.96906	-0.00242	5.06222	0.21193	0.00635	1.13184
4.86145	-15.44304	2.51135	-0.14875	-1.24810	0.97183	-0.00242	5.04191	0.21327	0.00606	1.13868
4.97760	-15.55721	2.52132	-0.14401	-1.24843	0.97477	-0.00241	5.02804	0.21448	0.00578	1.14523
5.09424	-15.66208	2.53016	-0.13885	-1.24994	0.97821	-0.00241	5.02644	0.21558	0.00548	1.15142
5.21376	-15.78053	2.54114	-0.13421	-1.24991	0.98087	-0.00240	5.00800	0.21679	0.00521	1.15704
5.33618	-15.89231	2.55088	-0.12967	-1.25019	0.98359	-0.00239	4.99561	0.21785	0.00495	1.16243
5.46150	-15.99185	2.55889	-0.12444	-1.25221	0.98712	-0.00239	5.00118	0.21877	0.00465	1.16793
5.58971	-16.10651	2.56935	-0.11967	-1.25269	0.98989	-0.00238	4.98942	0.21982	0.00439	1.17315
5.72082	-16.22377	2.57995	-0.11542	-1.25226	0.99211	-0.00237	4.97067	0.22082	0.00416	1.17828
5.85823	-16.32006	2.58721	-0.11022	-1.25460	0.99566	-0.00237	4.98142	0.22159	0.00386	1.18411
5.99520	-16.42309	2.59596	-0.10517	-1.25631	0.99886	-0.00236	4.98413	0.22243	0.00358	1.18988
6.13497	-16.54363	2.60733	-0.10096	-1.25576	1.00091	-0.00235	4.96424	0.22337	0.00337	1.19542
6.28141	-16.64839	2.61583	-0.09653	-1.25661	1.00356	-0.00234	4.96167	0.22410	0.00313	1.20145
6.42674	-16.73290	2.62170	-0.09136	-1.25981	1.00724	-0.00234	4.98243	0.22466	0.00283	1.20786
6.57895	-16.83867	2.63086	-0.08649	-1.26130	1.01016	-0.00233	4.98397	0.22540	0.00257	1.21429
6.73401	-16.96246	2.64262	-0.08258	-1.26029	1.01181	-0.00232	4.96187	0.22620	0.00239	1.22042
6.89180	-17.05711	2.64966	-0.07836	-1.26167	1.01444	-0.00231	4.96695	0.22673	0.00216	1.22700
7.05716	-17.13520	2.65430	-0.07311	-1.26569	1.01837	-0.00230	4.99701	0.22714	0.00185	1.23424
7.22022	-17.23124	2.66213	-0.06846	-1.26765	1.02125	-0.00230	5.00559	0.22768	0.00161	1.24086
7.39098	-17.35446	2.67387	-0.06463	-1.26675	1.02279	-0.00228	4.98636	0.22835	0.00144	1.24696
7.56430	-17.46005	2.68249	-0.06113	-1.26657	1.02449	-0.00227	4.97815	0.22881	0.00127	1.25283
7.73994	-17.52146	2.68462	-0.05637	-1.27120	1.02838	-0.00227	5.01640	0.22905	0.00099	1.25910
7.92393	-17.60221	2.68985	-0.05158	-1.27464	1.03179	-0.00226	5.04158	0.22938	0.00072	1.26488
8.11030	-17.70373	2.69841	-0.04736	-1.27593	1.03416	-0.00225	5.04544	0.22981	0.00052	1.26983
8.29876	-17.83238	2.71093	-0.04427	-1.27377	1.03482	-0.00224	5.01856	0.23028	0.00042	1.27375
8.49618	-17.92220	2.71688	-0.04089	-1.27476	1.03682	-0.00223	5.02447	0.23053	0.00026	1.27800
8.69565	-17.96740	2.71646	-0.03620	-1.28072	1.04110	-0.00222	5.07554	0.23065	-0.00004	1.28291
8.90472	-18.04378	2.72091	-0.03174	-1.28429	1.04435	-0.00222	5.10348	0.23086	-0.00028	1.28737
9.11577	-18.13424	2.72768	-0.02768	-1.28637	1.04686	-0.00221	5.11736	0.23111	-0.00048	1.29149
9.32836	-18.26330	2.74040	-0.02459	-1.28438	1.04743	-0.00219	5.09497	0.23140	-0.00056	1.29489
9.54198	-18.37651	2.75006	-0.02225	-1.28232	1.04776	-0.00218	5.07728	0.23149	-0.00062	1.29838
9.76563	-18.41021	2.74761	-0.01835	-1.28831	1.05176	-0.00217	5.12763	0.23163	-0.00088	1.30377
10.00000	-18.45443	2.74693	-0.01395	-1.29423	1.05582	-0.00217	5.17826	0.23170	-0.00116	1.30985

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
High stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 61 - 152 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.69332	3.40421	-0.04402	-1.71176	1.02748	-0.00099	1.17363	0.45112	-0.02051	0.35389
PGV	3.91940	1.88234	-0.14694	-2.70795	1.33874	-0.00131	7.35157	0.34106	-0.01355	0.43792
PGA	2.95803	1.67362	-0.06779	-2.96385	1.03124	-0.00132	5.57049	0.46948	-0.03508	0.77242
0.01000	3.72327	1.69155	-0.06536	-3.11474	1.03487	-0.00114	6.46686	0.45568	-0.02013	0.76257
0.01024	3.70628	1.69467	-0.06421	-3.11313	1.02727	-0.00113	6.42298	0.45766	-0.02024	0.76352
0.01048	3.69287	1.69775	-0.06307	-3.11216	1.01987	-0.00112	6.38292	0.45956	-0.02037	0.76454
0.01072	3.68344	1.70081	-0.06192	-3.11192	1.01267	-0.00111	6.34720	0.46136	-0.02052	0.76562
0.01097	3.67903	1.70386	-0.06076	-3.11261	1.00570	-0.00110	6.31711	0.46305	-0.02068	0.76674
0.01123	3.68008	1.70693	-0.05960	-3.11431	0.99896	-0.00109	6.29322	0.46461	-0.02085	0.76791
0.01150	3.68652	1.70999	-0.05845	-3.11700	0.99245	-0.00107	6.27553	0.46604	-0.02105	0.76916
0.01177	3.69850	1.71307	-0.05730	-3.12070	0.98610	-0.00106	6.26413	0.46735	-0.02126	0.77051
0.01205	3.71634	1.71617	-0.05614	-3.12548	0.97985	-0.00104	6.25930	0.46853	-0.02149	0.77196
0.01233	3.73814	1.71927	-0.05498	-3.13095	0.97359	-0.00102	6.25876	0.46963	-0.02174	0.77347
0.01262	3.75906	1.72233	-0.05380	-3.13621	0.96728	-0.00101	6.25642	0.47075	-0.02198	0.77491
0.01292	3.77782	1.72536	-0.05260	-3.14105	0.96095	-0.00099	6.25050	0.47194	-0.02221	0.77621
0.01322	3.79915	1.72841	-0.05136	-3.14640	0.95472	-0.00097	6.24653	0.47308	-0.02243	0.77746
0.01353	3.82847	1.73157	-0.05009	-3.15330	0.94881	-0.00096	6.25106	0.47407	-0.02265	0.77873
0.01385	3.86902	1.73483	-0.04882	-3.16233	0.94329	-0.00094	6.26829	0.47481	-0.02290	0.78014
0.01417	3.91812	1.73814	-0.04757	-3.17291	0.93797	-0.00091	6.29543	0.47537	-0.02317	0.78173
0.01451	3.96902	1.74142	-0.04634	-3.18371	0.93253	-0.00089	6.32444	0.47590	-0.02345	0.78341
0.01485	4.01698	1.74463	-0.04511	-3.19384	0.92675	-0.00087	6.34946	0.47651	-0.02373	0.78510
0.01520	4.06081	1.74780	-0.04386	-3.20311	0.92065	-0.00085	6.36880	0.47724	-0.02401	0.78686
0.01556	4.10306	1.75098	-0.04258	-3.21205	0.91445	-0.00083	6.38522	0.47803	-0.02432	0.78887
0.01592	4.14748	1.75421	-0.04126	-3.22141	0.90833	-0.00081	6.40292	0.47881	-0.02466	0.79119
0.01630	4.19296	1.75749	-0.03988	-3.23097	0.90221	-0.00079	6.42031	0.47960	-0.02502	0.79368
0.01668	4.23949	1.76079	-0.03849	-3.24069	0.89587	-0.00077	6.43759	0.48041	-0.02536	0.79606
0.01707	4.29259	1.76412	-0.03713	-3.25154	0.88935	-0.00074	6.46227	0.48110	-0.02566	0.79826
0.01748	4.35598	1.76749	-0.03580	-3.26420	0.88285	-0.00072	6.49947	0.48157	-0.02593	0.80027
0.01789	4.42473	1.77088	-0.03447	-3.27775	0.87633	-0.00069	6.54293	0.48193	-0.02617	0.80215
0.01831	4.49316	1.77429	-0.03310	-3.29116	0.86979	-0.00067	6.58540	0.48234	-0.02643	0.80412
0.01874	4.55538	1.77774	-0.03164	-3.30343	0.86335	-0.00064	6.61910	0.48291	-0.02672	0.80641
0.01918	4.60563	1.78121	-0.03009	-3.31353	0.85686	-0.00063	6.63652	0.48378	-0.02707	0.80903
0.01963	4.64078	1.78464	-0.02847	-3.32086	0.84999	-0.00061	6.63372	0.48503	-0.02744	0.81179
0.02009	4.66032	1.78801	-0.02679	-3.32530	0.84252	-0.00060	6.60968	0.48667	-0.02783	0.81468
0.02057	4.67696	1.79139	-0.02509	-3.32923	0.83461	-0.00059	6.58000	0.48844	-0.02828	0.81797
0.02105	4.70853	1.79487	-0.02343	-3.33578	0.82653	-0.00057	6.56747	0.48994	-0.02878	0.82164
0.02154	4.75731	1.79845	-0.02184	-3.34533	0.81834	-0.00055	6.57572	0.49109	-0.02930	0.82540
0.02205	4.81561	1.80209	-0.02029	-3.35648	0.81014	-0.00053	6.59563	0.49205	-0.02979	0.82895
0.02257	4.87344	1.80569	-0.01879	-3.36741	0.80205	-0.00051	6.61558	0.49301	-0.03023	0.83218
0.02310	4.92136	1.80920	-0.01729	-3.37637	0.79399	-0.00049	6.62404	0.49417	-0.03062	0.83513
0.02364	4.96185	1.81269	-0.01575	-3.38387	0.78569	-0.00047	6.62340	0.49552	-0.03100	0.83794
0.02420	4.99585	1.81616	-0.01415	-3.38998	0.77691	-0.00046	6.61596	0.49702	-0.03140	0.84097
0.02477	5.01215	1.81951	-0.01250	-3.39262	0.76753	-0.00045	6.58980	0.49889	-0.03184	0.84430
0.02535	5.00115	1.82269	-0.01082	-3.39020	0.75764	-0.00045	6.53219	0.50133	-0.03227	0.84752
0.02595	4.96550	1.82574	-0.00905	-3.38336	0.74777	-0.00046	6.44518	0.50431	-0.03266	0.85060
0.02656	4.91161	1.82878	-0.00715	-3.37342	0.73825	-0.00047	6.33587	0.50771	-0.03303	0.85346
0.02719	4.84371	1.83189	-0.00519	-3.36112	0.72869	-0.00048	6.20974	0.51148	-0.03331	0.85578
0.02783	4.76806	1.83512	-0.00320	-3.34745	0.71889	-0.00050	6.07485	0.51552	-0.03355	0.85791
0.02848	4.68996	1.83858	-0.00109	-3.33344	0.70863	-0.00051	5.93620	0.51978	-0.03385	0.86052
0.02915	4.60569	1.84231	0.00112	-3.31846	0.69763	-0.00053	5.78950	0.52435	-0.03419	0.86345
0.02984	4.52380	1.84616	0.00331	-3.30393	0.68629	-0.00054	5.64700	0.52897	-0.03447	0.86613
0.03054	4.45975	1.84982	0.00533	-3.29214	0.67461	-0.00055	5.52948	0.53312	-0.03468	0.86838
0.03126	4.41717	1.85308	0.00712	-3.28352	0.66270	-0.00056	5.44158	0.53666	-0.03479	0.87005
0.03199	4.39685	1.85614	0.00873	-3.27862	0.65235	-0.00056	5.38264	0.53947	-0.03483	0.87132
0.03275	4.39213	1.85913	0.01026	-3.27654	0.64438	-0.00057	5.34428	0.54170	-0.03489	0.87279
0.03352	4.39311	1.86214	0.01179	-3.27551	0.63766	-0.00058	5.31486	0.54367	-0.03509	0.87524
0.03430	4.38922	1.86511	0.01334	-3.27351	0.63109	-0.00059	5.28254	0.54570	-0.03553	0.87925
0.03511	4.37105	1.86789	0.01484	-3.26869	0.62384	-0.00060	5.23631	0.54808	-0.03610	0.88424
0.03594	4.30662	1.87029	0.01636	-3.25538	0.61529	-0.00062	5.14257	0.55160	-0.03664	0.88906
0.03678	4.17252	1.87226	0.01807	-3.22950	0.60545	-0.00066	4.98000	0.55685	-0.03712	0.89352
0.03765	3.99724	1.87405	0.02000	-3.19622	0.59459	-0.00070	4.77959	0.56324	-0.03754	0.89770
0.03854	3.82881	1.87593	0.02192	-3.16415	0.58291	-0.00074	4.58883	0.56966	-0.03788	0.90130
0.03944	3.67655	1.87772	0.02364	-3.13476	0.57074	-0.00077	4.41757	0.57578	-0.03817	0.90459
0.04037	3.52678	1.87926	0.02525	-3.10544	0.55886	-0.00081	4.25522	0.58182	-0.03845	0.90778
0.04132	3.38302	1.88086	0.02684	-3.07717	0.54902	-0.00084	4.10640	0.58755	-0.03862	0.91026
0.04229	3.24067	1.88272	0.02860	-3.04949	0.54187	-0.00089	3.96571	0.59310	-0.03869	0.91201
0.04329	3.07518	1.88466	0.03068	-3.01792	0.53562	-0.00095	3.80831	0.59931	-0.03877	0.91372
0.04431	2.87680	1.88638	0.03291	-2.98046	0.52778	-0.00100	3.62365	0.60675	-0.03891	0.91576
0.04535	2.67748	1.88769	0.03494	-2.94263	0.51927	-0.00106	3.44240	0.61436	-0.03907	0.91792

0.04642	2.49619	1.88853	0.03681	-2.90769	0.51259	-0.00111	3.28492	0.62126	-0.03912	0.91930
0.04751	2.31139	1.88918	0.03877	-2.87200	0.50670	-0.00117	3.13131	0.62825	-0.03896	0.91915
0.04863	2.11430	1.89027	0.04085	-2.83455	0.49986	-0.00122	2.97027	0.63598	-0.03863	0.91772
0.04977	1.93530	1.89205	0.04279	-2.80094	0.49290	-0.00127	2.82524	0.64346	-0.03820	0.91565
0.05094	1.80189	1.89393	0.04440	-2.77544	0.48668	-0.00131	2.71776	0.64950	-0.03778	0.91355
0.05214	1.68918	1.89504	0.04579	-2.75286	0.48045	-0.00135	2.62899	0.65474	-0.03743	0.91193
0.05337	1.55315	1.89462	0.04714	-2.72482	0.47387	-0.00139	2.52823	0.66057	-0.03714	0.91074
0.05462	1.39410	1.89263	0.04848	-2.69141	0.46787	-0.00143	2.41732	0.66691	-0.03684	0.90946
0.05591	1.25195	1.89022	0.04971	-2.66075	0.46395	-0.00148	2.32350	0.67240	-0.03654	0.90823
0.05722	1.15405	1.88853	0.05065	-2.63856	0.46251	-0.00153	2.26345	0.67610	-0.03628	0.90717
0.05857	1.08355	1.88720	0.05121	-2.62123	0.46169	-0.00156	2.22468	0.67869	-0.03608	0.90673
0.05995	1.01075	1.88551	0.05145	-2.60266	0.45939	-0.00160	2.18654	0.68138	-0.03614	0.90826
0.06136	0.91694	1.88319	0.05155	-2.57971	0.45502	-0.00164	2.13378	0.68506	-0.03651	0.91200
0.06280	0.79535	1.88021	0.05165	-2.55186	0.44886	-0.00167	2.05880	0.69015	-0.03696	0.91653
0.06428	0.65338	1.87653	0.05183	-2.52064	0.44290	-0.00171	1.96847	0.69621	-0.03731	0.92049
0.06579	0.51311	1.87242	0.05207	-2.48979	0.44041	-0.00175	1.88285	0.70193	-0.03750	0.92354
0.06734	0.39786	1.86815	0.05224	-2.46311	0.44244	-0.00179	1.81897	0.70612	-0.03757	0.92571
0.06893	0.31267	1.86366	0.05215	-2.44127	0.44708	-0.00185	1.77687	0.70875	-0.03750	0.92686
0.07055	0.23872	1.85918	0.05183	-2.42144	0.45129	-0.00189	1.74070	0.71101	-0.03736	0.92725
0.07221	0.15323	1.85487	0.05150	-2.39993	0.45325	-0.00193	1.69483	0.71416	-0.03731	0.92800
0.07391	0.05543	1.85049	0.05118	-2.37631	0.45395	-0.00197	1.64044	0.71810	-0.03742	0.92961
0.07565	-0.03763	1.84604	0.05059	-2.35357	0.45508	-0.00201	1.58905	0.72189	-0.03746	0.93068
0.07743	-0.11028	1.84202	0.04927	-2.33501	0.45596	-0.00204	1.54872	0.72487	-0.03708	0.92904
0.07925	-0.15753	1.83794	0.04708	-2.32124	0.45623	-0.00206	1.52114	0.72677	-0.03622	0.92430
0.08111	-0.20304	1.83246	0.04462	-2.30690	0.45735	-0.00207	1.49472	0.72832	-0.03522	0.91880
0.08302	-0.27051	1.82503	0.04248	-2.28709	0.46042	-0.00210	1.45846	0.73042	-0.03441	0.91461
0.08498	-0.35444	1.81622	0.04071	-2.26287	0.46422	-0.00214	1.41569	0.73305	-0.03377	0.91158
0.08697	-0.43483	1.80665	0.03904	-2.23798	0.46710	-0.00218	1.37654	0.73551	-0.03319	0.90917
0.08902	-0.51063	1.79685	0.03739	-2.21341	0.46871	-0.00221	1.34040	0.73787	-0.03256	0.90667
0.09112	-0.60229	1.78707	0.03586	-2.18635	0.46841	-0.00225	1.29455	0.74132	-0.03171	0.90289
0.09326	-0.72216	1.77759	0.03450	-2.15505	0.46627	-0.00228	1.23276	0.74662	-0.03052	0.89690
0.09545	-0.85559	1.76936	0.03311	-2.12263	0.46452	-0.00231	1.16574	0.75288	-0.02899	0.88873
0.09770	-0.98087	1.76254	0.03145	-2.09270	0.46436	-0.00235	1.10678	0.75868	-0.02719	0.87885
0.10000	-1.08493	1.75590	0.02944	-2.06623	0.46466	-0.00239	1.06167	0.76316	-0.02529	0.86832
0.10235	-1.15768	1.74873	0.02694	-2.04443	0.46529	-0.00242	1.03329	0.76571	-0.02351	0.85875
0.10476	-1.20813	1.74138	0.02406	-2.02644	0.46709	-0.00245	1.01563	0.76691	-0.02205	0.85151
0.10723	-1.25456	1.73354	0.02093	-2.00938	0.46959	-0.00247	0.99758	0.76801	-0.02103	0.84747
0.10975	-1.31334	1.72502	0.01789	-1.99052	0.47195	-0.00249	0.97076	0.77009	-0.02044	0.84631
0.11233	-1.38627	1.71624	0.01508	-1.96969	0.47449	-0.00250	0.93607	0.77317	-0.01999	0.84598
0.11498	-1.46731	1.70740	0.01236	-1.94761	0.47664	-0.00252	0.89787	0.77686	-0.01942	0.84458
0.11768	-1.54525	1.69837	0.00938	-1.92565	0.47738	-0.00253	0.86162	0.78055	-0.01872	0.84194
0.12045	-1.61231	1.68923	0.00597	-1.90505	0.47707	-0.00254	0.83087	0.78370	-0.01801	0.83904
0.12328	-1.66898	1.68013	0.00208	-1.88600	0.47626	-0.00254	0.80511	0.78628	-0.01743	0.83684
0.12619	-1.71714	1.67148	-0.00227	-1.86869	0.47515	-0.00254	0.78352	0.78837	-0.01708	0.83615
0.12916	-1.75516	1.66359	-0.00694	-1.85365	0.47428	-0.00254	0.76741	0.78972	-0.01692	0.83662
0.13219	-1.78665	1.65620	-0.01167	-1.83997	0.47399	-0.00255	0.75552	0.79046	-0.01668	0.83618
0.13531	-1.82101	1.64931	-0.01611	-1.82609	0.47534	-0.00256	0.74402	0.79117	-0.01611	0.83312
0.13849	-1.86039	1.64361	-0.02011	-1.81250	0.48161	-0.00259	0.73291	0.79172	-0.01522	0.82746
0.14175	-1.89921	1.63941	-0.02386	-1.80079	0.49435	-0.00264	0.72434	0.79163	-0.01417	0.82035
0.14508	-1.93854	1.63549	-0.02771	-1.78974	0.50905	-0.00269	0.71513	0.79149	-0.01319	0.81338
0.14850	-1.96877	1.62986	-0.03228	-1.77935	0.51963	-0.00271	0.70573	0.79122	-0.01241	0.80748
0.15199	-1.99695	1.62279	-0.03734	-1.76830	0.52286	-0.00271	0.69368	0.79154	-0.01188	0.80332
0.15557	-2.01965	1.61517	-0.04263	-1.75783	0.52071	-0.00269	0.68238	0.79186	-0.01166	0.80138
0.15923	-2.03965	1.60781	-0.04788	-1.74804	0.51660	-0.00266	0.67300	0.79194	-0.01162	0.80092
0.16298	-2.05678	1.60069	-0.05308	-1.73878	0.51301	-0.00263	0.66648	0.79147	-0.01156	0.80068
0.16681	-2.07021	1.59328	-0.05844	-1.72967	0.51086	-0.00261	0.66271	0.79036	-0.01136	0.79995
0.17074	-2.08007	1.58538	-0.06406	-1.72062	0.51053	-0.00259	0.66065	0.78873	-0.01102	0.79871
0.17475	-2.08173	1.57712	-0.07012	-1.71284	0.51248	-0.00257	0.66157	0.78630	-0.01060	0.79721
0.17887	-2.07041	1.56891	-0.07663	-1.70756	0.51665	-0.00256	0.66782	0.78270	-0.01015	0.79581
0.18307	-2.04824	1.56122	-0.08335	-1.70471	0.52194	-0.00254	0.67969	0.77807	-0.00969	0.79451
0.18738	-2.02467	1.55468	-0.08986	-1.70302	0.52724	-0.00252	0.69427	0.77318	-0.00913	0.79262
0.19179	-2.00948	1.55009	-0.09584	-1.70144	0.53276	-0.00251	0.70824	0.76876	-0.00832	0.78910
0.19631	-2.01265	1.54784	-0.10118	-1.69865	0.53871	-0.00250	0.71713	0.76561	-0.00714	0.78310
0.20092	-2.04498	1.54765	-0.10588	-1.69250	0.54405	-0.00251	0.71503	0.76474	-0.00560	0.77462
0.20565	-2.11531	1.54865	-0.10991	-1.68067	0.54653	-0.00252	0.69635	0.76713	-0.00393	0.76495
0.21049	-2.22030	1.54995	-0.11342	-1.66311	0.54401	-0.00253	0.66158	0.77287	-0.00238	0.75570
0.21544	-2.34462	1.55115	-0.11689	-1.64241	0.53607	-0.00253	0.61798	0.78088	-0.00102	0.74748
0.22051	-2.47698	1.55205	-0.12065	-1.62050	0.52427	-0.00251	0.57196	0.79001	0.00015	0.74036
0.22570	-2.59973	1.55187	-0.12497	-1.59980	0.51250	-0.00249	0.53196	0.79810	0.00102	0.73509
0.23101	-2.70304	1.55003	-0.12984	-1.58126	0.50410	-0.00247	0.50200	0.80373	0.00144	0.73282
0.23645	-2.77776	1.54632	-0.13532	-1.56612	0.50111	-0.00245	0.48462	0.80579	0.00140	0.73356
0.24201	-2.82158	1.54097	-0.14138	-1.55485	0.50419	-0.00245	0.48003	0.80398	0.00111	0.73621
0.24771	-2.84131	1.53495	-0.14777	-1.54687	0.51247	-0.00246	0.48612	0.79907	0.00072	0.73981
0.25354	-2.83995	1.52918	-0.15430	-1.54246	0.52411	-0.00247	0.50200	0.79169	0.00039	0.74348
0.25950	-2.82736	1.52448	-0.16075	-1.54070	0.53611	-0.00248	0.52397	0.78327	0.00032	0.74585
0.26561	-2.81313	1.52131	-0.16693	-1.54050	0.54583	-0.00249	0.54749	0.77522	0.00062	0.74615
0.27186	-2.80306	1.51991	-0.17277	-1.54132	0.55249	-0.00248	0.56961	0.76821	0.00127	0.74438
0.27826	-2.79968	1.52074	-0.17823	-1.54344	0.55744	-0.00247	0.58938	0.76230	0.00220	0.74089
0.28480	-2.80951	1.52390	-0.18315	-1.54604	0.56184	-0.00246	0.60377	0.75793	0.00324	0.73658
0.29150	-2.84322	1.52888	-0.18741	-1.54674	0.56544	-0.00245	0.60759	0.75596	0.00427	0.73225
0.29836	-2.90762	1.53488	-0.19103	-1.54350	0.56794	-0.00245	0.59760	0.75690	0.00516	0.72861

0.30539	-2.99589	1.54135	-0.19421	-1.53689	0.56994	-0.00244	0.57798	0.75988	0.00582	0.72630
0.31257	-3.09362	1.54775	-0.19730	-1.52883	0.57227	-0.00245	0.55604	0.76330	0.00618	0.72573
0.31993	-3.19034	1.55341	-0.20070	-1.52045	0.57511	-0.00245	0.53683	0.76592	0.00626	0.72670
0.32745	-3.28298	1.55773	-0.20468	-1.51153	0.57791	-0.00245	0.52128	0.76734	0.00617	0.72852
0.33517	-3.37069	1.56042	-0.20946	-1.50184	0.58024	-0.00245	0.50922	0.76752	0.00597	0.73077
0.34304	-3.44812	1.56180	-0.21512	-1.49275	0.58186	-0.00246	0.50202	0.76613	0.00572	0.73307
0.35112	-3.51182	1.56260	-0.22158	-1.48574	0.58221	-0.00245	0.50082	0.76297	0.00552	0.73500
0.35938	-3.55877	1.56321	-0.22866	-1.48196	0.58043	-0.00243	0.50635	0.75799	0.00541	0.73630
0.36784	-3.59003	1.56398	-0.23614	-1.48165	0.57615	-0.00238	0.51862	0.75133	0.00539	0.73723
0.37649	-3.61020	1.56512	-0.24364	-1.48416	0.57013	-0.00232	0.53628	0.74351	0.00538	0.73842
0.38536	-3.61936	1.56665	-0.25105	-1.48946	0.56431	-0.00226	0.55985	0.73452	0.00517	0.74112
0.39442	-3.62121	1.56870	-0.25819	-1.49690	0.55971	-0.00219	0.58825	0.72481	0.00468	0.74592
0.40370	-3.62404	1.57153	-0.26491	-1.50507	0.55616	-0.00212	0.61805	0.71526	0.00399	0.75233
0.41321	-3.63422	1.57524	-0.27118	-1.51278	0.55373	-0.00205	0.64614	0.70655	0.00320	0.75958
0.42292	-3.65843	1.57985	-0.27693	-1.51867	0.55236	-0.00200	0.66920	0.69926	0.00245	0.76682
0.43288	-3.70241	1.58532	-0.28220	-1.52148	0.55187	-0.00196	0.68468	0.69368	0.00182	0.77358
0.44307	-3.76594	1.59131	-0.28710	-1.52091	0.55225	-0.00193	0.69176	0.68978	0.00131	0.77992
0.45349	-3.84375	1.59740	-0.29181	-1.51768	0.55352	-0.00192	0.69246	0.68705	0.00087	0.78602
0.46417	-3.93143	1.60361	-0.29637	-1.51270	0.55585	-0.00191	0.68933	0.68495	0.00053	0.79168
0.47508	-4.03018	1.61012	-0.30073	-1.50589	0.55924	-0.00191	0.68201	0.68355	0.00032	0.79656
0.48626	-4.13837	1.61690	-0.30494	-1.49754	0.56374	-0.00192	0.67111	0.68277	0.00026	0.80047
0.49771	-4.25167	1.62383	-0.30910	-1.48838	0.56922	-0.00194	0.65843	0.68232	0.00039	0.80327
0.50942	-4.36612	1.63091	-0.31323	-1.47906	0.57551	-0.00196	0.64636	0.68178	0.00069	0.80498
0.52140	-4.47664	1.63807	-0.31733	-1.47037	0.58288	-0.00198	0.63780	0.68056	0.00110	0.80615
0.53367	-4.57855	1.64504	-0.32145	-1.46293	0.59182	-0.00201	0.63483	0.67820	0.00150	0.80746
0.54624	-4.66824	1.65158	-0.32565	-1.45718	0.60253	-0.00203	0.63845	0.67451	0.00183	0.80944
0.55910	-4.74415	1.65774	-0.32992	-1.45349	0.61492	-0.00206	0.64968	0.66936	0.00208	0.81200
0.57225	-4.80903	1.66365	-0.33422	-1.45147	0.62820	-0.00209	0.66765	0.66298	0.00231	0.81479
0.58569	-4.86675	1.66923	-0.33850	-1.45025	0.64131	-0.00211	0.69019	0.65586	0.00251	0.81771
0.59948	-4.91957	1.67420	-0.34281	-1.44920	0.65371	-0.00212	0.71554	0.64837	0.00264	0.82105
0.61357	-4.96778	1.67840	-0.34715	-1.44810	0.66523	-0.00214	0.74274	0.64074	0.00265	0.82504
0.62802	-5.01525	1.68200	-0.35145	-1.44640	0.67578	-0.00215	0.77015	0.63323	0.00258	0.82946
0.64280	-5.06918	1.68523	-0.35559	-1.44289	0.68480	-0.00215	0.79381	0.62643	0.00251	0.83371
0.65794	-5.13305	1.68825	-0.35953	-1.43708	0.69214	-0.00216	0.81161	0.62057	0.00253	0.83724
0.67340	-5.20652	1.69109	-0.36335	-1.42908	0.69799	-0.00217	0.82282	0.61574	0.00270	0.83965
0.68927	-5.28807	1.69386	-0.36712	-1.41939	0.70294	-0.00218	0.82808	0.61183	0.00307	0.84069
0.70547	-5.37816	1.69671	-0.37084	-1.40809	0.70716	-0.00220	0.82654	0.60898	0.00368	0.83996
0.72207	-5.47829	1.69991	-0.37444	-1.39523	0.71080	-0.00222	0.81798	0.60717	0.00456	0.83712
0.73910	-5.58765	1.70363	-0.37791	-1.38119	0.71392	-0.00224	0.80356	0.60623	0.00574	0.83188
0.75649	-5.70300	1.70789	-0.38134	-1.36661	0.71637	-0.00227	0.78529	0.60591	0.00719	0.82405
0.77429	-5.82173	1.71260	-0.38483	-1.35197	0.71819	-0.00229	0.76459	0.60605	0.00891	0.81358
0.79246	-5.94176	1.71762	-0.38838	-1.33753	0.71945	-0.00232	0.74232	0.60659	0.01079	0.80084
0.81116	-6.06470	1.72289	-0.39200	-1.32298	0.72015	-0.00234	0.71812	0.60757	0.01278	0.78643
0.83022	-6.18932	1.72837	-0.39556	-1.30850	0.72041	-0.00237	0.69307	0.60880	0.01475	0.77130
0.84976	-6.31483	1.73417	-0.39902	-1.29437	0.72043	-0.00239	0.66928	0.60984	0.01664	0.75620
0.86972	-6.43958	1.74021	-0.40237	-1.28085	0.72014	-0.00242	0.64831	0.61032	0.01835	0.74216
0.89023	-6.56412	1.74639	-0.40561	-1.26777	0.71930	-0.00244	0.63052	0.61006	0.01978	0.73027
0.91116	-6.68605	1.75252	-0.40876	-1.25540	0.71799	-0.00246	0.61669	0.60891	0.02085	0.72155
0.93257	-6.80577	1.75855	-0.41186	-1.24370	0.71636	-0.00248	0.60647	0.60688	0.02156	0.71620
0.95456	-6.92431	1.76453	-0.41492	-1.23261	0.71458	-0.00249	0.59949	0.60400	0.02195	0.71400
0.97704	-7.04264	1.77064	-0.41794	-1.22215	0.71282	-0.00251	0.59534	0.60030	0.02209	0.71433
1.00000	-7.16228	1.77710	-0.42086	-1.21233	0.71130	-0.00252	0.59377	0.59581	0.02212	0.71627
1.02354	-7.28569	1.78423	-0.42359	-1.20309	0.71016	-0.00254	0.59423	0.59059	0.02211	0.71919
1.04767	-7.41379	1.79227	-0.42605	-1.19452	0.70946	-0.00255	0.59662	0.58471	0.02206	0.72298
1.07227	-7.54447	1.80122	-0.42818	-1.18705	0.70914	-0.00257	0.60191	0.57809	0.02195	0.72764
1.09745	-7.67626	1.81098	-0.42996	-1.18090	0.70908	-0.00257	0.61091	0.57059	0.02175	0.73328
1.12334	-7.80877	1.82132	-0.43141	-1.17596	0.70899	-0.00258	0.62398	0.56219	0.02143	0.73995
1.14982	-7.94197	1.83193	-0.43252	-1.17180	0.70859	-0.00258	0.64044	0.55306	0.02104	0.74732
1.17675	-8.07470	1.84258	-0.43336	-1.16829	0.70796	-0.00258	0.66074	0.54315	0.02065	0.75471
1.20453	-8.20820	1.85340	-0.43394	-1.16546	0.70733	-0.00258	0.68674	0.53207	0.02035	0.76147
1.23289	-8.34032	1.86439	-0.43423	-1.16357	0.70700	-0.00258	0.72021	0.51968	0.02022	0.76678
1.26183	-8.47045	1.87565	-0.43422	-1.16279	0.70714	-0.00257	0.76303	0.50588	0.02032	0.77015
1.29149	-8.59853	1.88733	-0.43389	-1.16328	0.70802	-0.00257	0.81752	0.49059	0.02068	0.77142
1.32188	-8.72502	1.89939	-0.43320	-1.16486	0.70972	-0.00256	0.88461	0.47403	0.02128	0.77066
1.35300	-8.85056	1.91165	-0.43210	-1.16716	0.71221	-0.00255	0.96465	0.45645	0.02209	0.76827
1.38485	-8.97540	1.92392	-0.43058	-1.16986	0.71527	-0.00255	1.05770	0.43819	0.02303	0.76489
1.41743	-9.09769	1.93602	-0.42867	-1.17310	0.71921	-0.00254	1.16600	0.41932	0.02402	0.76120
1.45075	-9.21613	1.94779	-0.42641	-1.17692	0.72395	-0.00253	1.29149	0.40002	0.02503	0.75760
1.48500	-9.32929	1.95917	-0.42381	-1.18165	0.72973	-0.00253	1.43895	0.38017	0.02600	0.75433
1.51999	-9.43597	1.97008	-0.42088	-1.18732	0.73647	-0.00252	1.61003	0.36009	0.02692	0.75159
1.55569	-9.53670	1.98057	-0.41762	-1.19385	0.74406	-0.00251	1.80585	0.34004	0.02776	0.74951
1.59236	-9.63353	1.99080	-0.41401	-1.20104	0.75231	-0.00250	2.02719	0.32023	0.02849	0.74823
1.62973	-9.72738	2.00087	-0.41010	-1.20860	0.76098	-0.00249	2.27096	0.30108	0.02909	0.74789
1.66806	-9.82002	2.01094	-0.40585	-1.21641	0.77018	-0.00248	2.53723	0.28265	0.02953	0.74868
1.70736	-9.91232	2.02111	-0.40130	-1.22433	0.77993	-0.00248	2.82425	0.26507	0.02979	0.75072
1.74764	-10.00534	2.03142	-0.39647	-1.23214	0.79010	-0.00247	3.12900	0.24846	0.02989	0.75405
1.78859	-10.09950	2.04180	-0.39145	-1.23950	0.80030	-0.00246	3.44412	0.23304	0.02983	0.75854
1.83083	-10.19734	2.05240	-0.38620	-1.24626	0.81039	-0.00246	3.76814	0.21866	0.02965	0.76412
1.87371	-10.29791	2.06301	-0.38088	-1.25213	0.81990	-0.00246	4.08991	0.20557	0.02938	0.77053
1.91791	-10.40253	2.07372	-0.37543	-1.25717	0.82885	-0.00245	4.40993	0.19355	0.02905	0.77766
1.96309	-10.50949	2.08438	-0.36996	-1.26145	0.83720	-0.00245	4.72315	0.18262	0.02869	0.78526

2.00924	-10.61833	2.09492	-0.36451	-1.26501	0.84494	-0.00245	5.02564	0.17277	0.02831	0.79310
2.05634	-10.72929	2.10528	-0.35910	-1.26772	0.85190	-0.00245	5.31212	0.16396	0.02794	0.80095
2.10482	-10.84276	2.11552	-0.35371	-1.26970	0.85822	-0.00245	5.58276	0.15607	0.02756	0.80869
2.15424	-10.95731	2.12555	-0.34841	-1.27104	0.86396	-0.00244	5.83404	0.14909	0.02720	0.81606
2.20507	-11.07389	2.13547	-0.34314	-1.27178	0.86923	-0.00244	6.06731	0.14287	0.02683	0.82298
2.25683	-11.19154	2.14525	-0.33794	-1.27197	0.87399	-0.00244	6.27821	0.13745	0.02647	0.82941
2.31000	-11.31177	2.15504	-0.33276	-1.27158	0.87828	-0.00244	6.46608	0.13278	0.02611	0.83547
2.36463	-11.43481	2.16496	-0.32759	-1.27066	0.88213	-0.00244	6.62889	0.12885	0.02576	0.84125
2.42014	-11.56004	2.17496	-0.32248	-1.26915	0.88543	-0.00244	6.76236	0.12569	0.02541	0.84681
2.47709	-11.68884	2.18515	-0.31736	-1.26705	0.88821	-0.00244	6.86673	0.12324	0.02506	0.85236
2.53550	-11.82098	2.19557	-0.31224	-1.26442	0.89058	-0.00244	6.94341	0.12144	0.02469	0.85812
2.59471	-11.95480	2.20613	-0.30718	-1.26136	0.89256	-0.00244	6.99312	0.12025	0.02430	0.86417
2.65604	-12.09261	2.21700	-0.30205	-1.25789	0.89428	-0.00244	7.01941	0.11958	0.02389	0.87073
2.71887	-12.23259	2.22807	-0.29693	-1.25412	0.89578	-0.00244	7.02427	0.11940	0.02345	0.87777
2.78242	-12.37234	2.23919	-0.29188	-1.25022	0.89714	-0.00244	7.01095	0.11964	0.02300	0.88528
2.84819	-12.51427	2.25050	-0.28677	-1.24619	0.89845	-0.00244	6.98213	0.12028	0.02251	0.89352
2.91545	-12.65694	2.26196	-0.28171	-1.24207	0.89970	-0.00244	6.93935	0.12125	0.02201	0.90241
2.98329	-12.79710	2.27317	-0.27671	-1.23804	0.90090	-0.00244	6.88623	0.12253	0.02150	0.91173
3.05344	-12.93884	2.28459	-0.27173	-1.23394	0.90209	-0.00244	6.82262	0.12408	0.02098	0.92146
3.12598	-13.08080	2.29598	-0.26670	-1.22993	0.90332	-0.00244	6.75065	0.12591	0.02045	0.93141
3.19898	-13.21946	2.30715	-0.26185	-1.22609	0.90456	-0.00244	6.67238	0.12797	0.01992	0.94104
3.27439	-13.35770	2.31828	-0.25697	-1.22244	0.90588	-0.00244	6.58770	0.13031	0.01938	0.95034
3.35121	-13.49369	2.32925	-0.25222	-1.21896	0.90725	-0.00244	6.49889	0.13285	0.01885	0.95901
3.43053	-13.62900	2.34014	-0.24745	-1.21570	0.90870	-0.00244	6.40561	0.13563	0.01830	0.96743
3.51124	-13.76193	2.35087	-0.24282	-1.21261	0.91019	-0.00244	6.31049	0.13854	0.01774	0.97573
3.59324	-13.89110	2.36123	-0.23822	-1.20992	0.91181	-0.00244	6.21539	0.14162	0.01716	0.98429
3.67782	-14.02066	2.37182	-0.23371	-1.20733	0.91350	-0.00244	6.11868	0.14481	0.01656	0.99349
3.76506	-14.14655	2.38190	-0.22911	-1.20529	0.91543	-0.00244	6.02525	0.14815	0.01592	1.00384
3.85356	-14.27285	2.39244	-0.22469	-1.20327	0.91738	-0.00243	5.93153	0.15151	0.01530	1.01492
3.94477	-14.39367	2.40214	-0.22016	-1.20190	0.91958	-0.00243	5.84521	0.15491	0.01464	1.02683
4.03714	-14.51591	2.41246	-0.21575	-1.20053	0.92180	-0.00243	5.75798	0.15833	0.01400	1.03892
4.13223	-14.63442	2.42221	-0.21134	-1.19951	0.92415	-0.00242	5.67765	0.16168	0.01336	1.05114
4.23012	-14.75195	2.43194	-0.20680	-1.19888	0.92666	-0.00242	5.60025	0.16509	0.01272	1.06319
4.32900	-14.87135	2.44227	-0.20249	-1.19800	0.92904	-0.00242	5.52317	0.16837	0.01214	1.07430
4.43066	-14.98250	2.45117	-0.19799	-1.19787	0.93167	-0.00241	5.45776	0.17155	0.01155	1.08487
4.53515	-15.10026	2.46139	-0.19350	-1.19748	0.93424	-0.00241	5.38794	0.17478	0.01099	1.09472
4.64253	-15.21649	2.47130	-0.18913	-1.19710	0.93677	-0.00240	5.32323	0.17782	0.01046	1.10385
4.75059	-15.32329	2.47978	-0.18457	-1.19747	0.93949	-0.00240	5.26976	0.18074	0.00993	1.11237
4.86145	-15.44077	2.49029	-0.18014	-1.19721	0.94200	-0.00239	5.20807	0.18368	0.00944	1.12017
4.97760	-15.55452	2.49981	-0.17570	-1.19717	0.94457	-0.00239	5.15438	0.18642	0.00896	1.12761
5.09424	-15.65910	2.50797	-0.17105	-1.19787	0.94731	-0.00238	5.11094	0.18905	0.00848	1.13464
5.21376	-15.77728	2.51868	-0.16657	-1.19773	0.94978	-0.00237	5.05654	0.19174	0.00804	1.14109
5.33618	-15.88880	2.52809	-0.16226	-1.19774	0.95220	-0.00237	5.01082	0.19414	0.00762	1.14721
5.46150	-15.98833	2.53536	-0.15762	-1.19875	0.95491	-0.00236	4.97856	0.19641	0.00718	1.15339
5.58971	-16.10304	2.54553	-0.15306	-1.19895	0.95738	-0.00236	4.93415	0.19880	0.00677	1.15931
5.72082	-16.22002	2.55607	-0.14884	-1.19867	0.95959	-0.00235	4.88917	0.20100	0.00640	1.16509
5.85823	-16.31657	2.56258	-0.14426	-1.19987	0.96225	-0.00234	4.86571	0.20295	0.00599	1.17147
5.99520	-16.42008	2.57081	-0.13963	-1.20077	0.96478	-0.00233	4.83643	0.20497	0.00559	1.17779
6.13497	-16.54090	2.58228	-0.13533	-1.20049	0.96690	-0.00232	4.79337	0.20704	0.00525	1.18391
6.28141	-16.64601	2.59049	-0.13115	-1.20091	0.96915	-0.00232	4.76568	0.20877	0.00492	1.19041
6.42674	-16.73141	2.59549	-0.12672	-1.20259	0.97170	-0.00231	4.75429	0.21032	0.00454	1.19719
6.57895	-16.83810	2.60430	-0.12214	-1.20343	0.97408	-0.00230	4.72852	0.21210	0.00419	1.20407
6.73401	-16.96242	2.61641	-0.11796	-1.20300	0.97600	-0.00229	4.68920	0.21390	0.00391	1.21069
6.89180	-17.05781	2.62310	-0.11407	-1.20371	0.97809	-0.00228	4.67190	0.21525	0.00361	1.21759
7.05716	-17.13744	2.62671	-0.10969	-1.20579	0.98062	-0.00228	4.66961	0.21651	0.00326	1.22507
7.22022	-17.23491	2.63416	-0.10539	-1.20689	0.98282	-0.00227	4.65315	0.21793	0.00295	1.23199
7.39098	-17.35900	2.64634	-0.10122	-1.20662	0.98465	-0.00226	4.61932	0.21950	0.00270	1.23851
7.56430	-17.46527	2.65513	-0.09765	-1.20660	0.98635	-0.00225	4.59676	0.22071	0.00248	1.24468
7.73994	-17.52882	2.65607	-0.09390	-1.20886	0.98859	-0.00224	4.60393	0.22157	0.00218	1.25102
7.92393	-17.61179	2.66054	-0.08977	-1.21065	0.99080	-0.00223	4.60080	0.22265	0.00188	1.25695
8.11030	-17.71509	2.66901	-0.08566	-1.21147	0.99275	-0.00222	4.58442	0.22386	0.00163	1.26214
8.29876	-17.84428	2.68244	-0.08190	-1.21070	0.99419	-0.00221	4.55093	0.22515	0.00147	1.26643
8.49618	-17.93524	2.68826	-0.07871	-1.21125	0.99580	-0.00220	4.54105	0.22599	0.00127	1.27084
8.69565	-17.98364	2.68631	-0.07531	-1.21405	0.99794	-0.00220	4.55790	0.22658	0.00099	1.27566
8.90472	-18.06286	2.69003	-0.07150	-1.21585	0.99994	-0.00219	4.55861	0.22743	0.00073	1.28018
9.11577	-18.15574	2.69655	-0.06770	-1.21704	1.00175	-0.00218	4.55104	0.22835	0.00051	1.28443
9.32836	-18.28543	2.71027	-0.06389	-1.21655	1.00315	-0.00216	4.52267	0.22945	0.00037	1.28816
9.54198	-18.39853	2.72078	-0.06098	-1.21584	1.00424	-0.00215	4.50124	0.23020	0.00027	1.29191
9.76563	-18.43591	2.71673	-0.05841	-1.21848	1.00602	-0.00215	4.52038	0.23059	0.00003	1.29712
10.00000	-18.48421	2.71459	-0.05526	-1.22116	1.00790	-0.00214	4.53719	0.23106	-0.00022	1.30307

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
High stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 152 - 305 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.97896	3.39903	-0.04525	-1.64564	0.97595	-0.00099	0.90913	0.47886	-0.01856	0.34684
PGV	2.40843	1.97065	-0.14242	-2.51398	1.31216	-0.00152	5.30054	0.37764	-0.00937	0.40552
PGA	4.15646	1.71072	-0.07700	-3.24024	1.18707	-0.00122	7.29916	0.43494	-0.03539	0.76940
0.01000	5.13806	1.73014	-0.07623	-3.43204	1.20328	-0.00100	8.62414	0.41879	-0.01722	0.73243
0.01024	5.11899	1.73322	-0.07522	-3.42984	1.19565	-0.00099	8.57432	0.42058	-0.01731	0.73305
0.01048	5.10418	1.73627	-0.07420	-3.42841	1.18820	-0.00098	8.52973	0.42227	-0.01741	0.73373
0.01072	5.09287	1.73928	-0.07319	-3.42762	1.18090	-0.00097	8.48921	0.42390	-0.01753	0.73447
0.01097	5.08594	1.74228	-0.07217	-3.42762	1.17378	-0.00096	8.45408	0.42544	-0.01766	0.73525
0.01123	5.08494	1.74527	-0.07116	-3.42870	1.16689	-0.00095	8.42657	0.42686	-0.01781	0.73605
0.01150	5.08934	1.74826	-0.07015	-3.43078	1.16020	-0.00094	8.40587	0.42818	-0.01796	0.73687
0.01177	5.09811	1.75124	-0.06914	-3.43366	1.15363	-0.00093	8.39054	0.42942	-0.01812	0.73768
0.01205	5.11131	1.75423	-0.06813	-3.43733	1.14718	-0.00091	8.38053	0.43058	-0.01828	0.73849
0.01233	5.12907	1.75723	-0.06712	-3.44185	1.14085	-0.00090	8.37591	0.43165	-0.01846	0.73934
0.01262	5.15209	1.76025	-0.06610	-3.44732	1.13462	-0.00088	8.37761	0.43264	-0.01865	0.74026
0.01292	5.18018	1.76329	-0.06507	-3.45371	1.12846	-0.00086	8.38527	0.43354	-0.01885	0.74126
0.01322	5.21014	1.76633	-0.06402	-3.46043	1.12236	-0.00084	8.39435	0.43443	-0.01907	0.74229
0.01353	5.23939	1.76935	-0.06294	-3.46699	1.11630	-0.00083	8.40157	0.43533	-0.01928	0.74331
0.01385	5.26702	1.77232	-0.06183	-3.47320	1.11016	-0.00081	8.40590	0.43626	-0.01951	0.74444
0.01417	5.29546	1.77529	-0.06068	-3.47952	1.10391	-0.00079	8.41023	0.43720	-0.01977	0.74573
0.01451	5.33196	1.77835	-0.05949	-3.48733	1.09766	-0.00077	8.42382	0.43803	-0.02005	0.74719
0.01485	5.38115	1.78157	-0.05828	-3.49753	1.09165	-0.00075	8.45291	0.43867	-0.02034	0.74878
0.01520	5.43837	1.78486	-0.05709	-3.50923	1.08587	-0.00073	8.49177	0.43917	-0.02063	0.75039
0.01556	5.50162	1.78813	-0.05593	-3.52194	1.08012	-0.00071	8.53914	0.43956	-0.02092	0.75208
0.01592	5.57729	1.79141	-0.05481	-3.53679	1.07447	-0.00068	8.60419	0.43971	-0.02124	0.75399
0.01630	5.66653	1.79475	-0.05371	-3.55405	1.06897	-0.00065	8.68766	0.43963	-0.02159	0.75619
0.01668	5.76253	1.79815	-0.05262	-3.57247	1.06339	-0.00062	8.77935	0.43947	-0.02196	0.75861
0.01707	5.84835	1.80151	-0.05148	-3.58900	1.05754	-0.00059	8.85483	0.43954	-0.02231	0.76092
0.01748	5.91516	1.80486	-0.05022	-3.60218	1.05164	-0.00056	8.90077	0.43999	-0.02262	0.76304
0.01789	5.97943	1.80827	-0.04886	-3.61496	1.04578	-0.00054	8.94063	0.44053	-0.02293	0.76516
0.01831	6.05723	1.81177	-0.04750	-3.63010	1.03965	-0.00052	8.99835	0.44088	-0.02326	0.76743
0.01874	6.13901	1.81525	-0.04616	-3.64584	1.03320	-0.00049	9.06049	0.44118	-0.02363	0.76990
0.01918	6.21367	1.81868	-0.04483	-3.66022	1.02657	-0.00046	9.11079	0.44165	-0.02401	0.77249
0.01963	6.28774	1.82211	-0.04349	-3.67441	1.01985	-0.00044	9.15933	0.44215	-0.02439	0.77511
0.02009	6.36714	1.82560	-0.04212	-3.68951	1.01319	-0.00041	9.21450	0.44258	-0.02476	0.77767
0.02057	6.44096	1.82914	-0.04066	-3.70363	1.00631	-0.00039	9.25895	0.44317	-0.02509	0.77993
0.02105	6.49963	1.83271	-0.03907	-3.71499	0.99884	-0.00036	9.27846	0.44411	-0.02539	0.78202
0.02154	6.54585	1.83622	-0.03741	-3.72399	0.99131	-0.00035	9.28070	0.44527	-0.02573	0.78441
0.02205	6.59538	1.83964	-0.03578	-3.73343	0.98451	-0.00033	9.29141	0.44628	-0.02616	0.78732
0.02257	6.66359	1.84314	-0.03425	-3.74619	0.97828	-0.00031	9.32964	0.44694	-0.02666	0.79073
0.02310	6.73992	1.84683	-0.03272	-3.76048	0.97170	-0.00029	9.37533	0.44755	-0.02721	0.79451
0.02364	6.82216	1.85072	-0.03117	-3.77590	0.96477	-0.00027	9.42466	0.44816	-0.02775	0.79818
0.02420	6.91652	1.85461	-0.02974	-3.79337	0.95766	-0.00024	9.48978	0.44859	-0.02818	0.80117
0.02477	7.02262	1.85845	-0.02844	-3.81271	0.95011	-0.00021	9.57095	0.44885	-0.02852	0.80353
0.02535	7.11933	1.86220	-0.02711	-3.83009	0.94171	-0.00018	9.63776	0.44933	-0.02882	0.80571
0.02595	7.18027	1.86586	-0.02566	-3.84092	0.93269	-0.00017	9.65306	0.45047	-0.02914	0.80802
0.02656	7.20325	1.86957	-0.02404	-3.84513	0.92378	-0.00016	9.61198	0.45229	-0.02952	0.81081
0.02719	7.20418	1.87330	-0.02227	-3.84557	0.91563	-0.00015	9.53939	0.45447	-0.02998	0.81419
0.02783	7.19840	1.87688	-0.02041	-3.84475	0.90837	-0.00016	9.46170	0.45667	-0.03051	0.81799
0.02848	7.18411	1.88021	-0.01852	-3.84224	0.90137	-0.00016	9.37677	0.45892	-0.03099	0.82152
0.02915	7.17235	1.88332	-0.01673	-3.83983	0.89410	-0.00017	9.29909	0.46108	-0.03137	0.82451
0.02984	7.16295	1.88628	-0.01505	-3.83744	0.88661	-0.00017	9.22827	0.46318	-0.03171	0.82719
0.03054	7.13847	1.88915	-0.01337	-3.83215	0.87897	-0.00018	9.13932	0.46553	-0.03205	0.83004
0.03126	7.11291	1.89217	-0.01165	-3.82664	0.87124	-0.00019	9.04932	0.46794	-0.03246	0.83344
0.03199	7.09185	1.89549	-0.00988	-3.82189	0.86241	-0.00020	8.96296	0.47043	-0.03288	0.83704
0.03275	7.05179	1.89901	-0.00805	-3.81382	0.85240	-0.00022	8.84847	0.47340	-0.03323	0.84030
0.03352	6.98506	1.90243	-0.00620	-3.80104	0.84285	-0.00023	8.70187	0.47678	-0.03350	0.84312
0.03430	6.89963	1.90562	-0.00442	-3.78485	0.83404	-0.00026	8.53769	0.48038	-0.03374	0.84576
0.03511	6.80334	1.90871	-0.00268	-3.76666	0.82569	-0.00029	8.36510	0.48412	-0.03404	0.84889
0.03594	6.69526	1.91167	-0.00092	-3.74639	0.81809	-0.00032	8.18212	0.48801	-0.03442	0.85258
0.03678	6.57707	1.91433	0.00089	-3.72432	0.81191	-0.00036	7.99354	0.49193	-0.03471	0.85564
0.03765	6.47126	1.91681	0.00257	-3.70440	0.80660	-0.00040	7.82673	0.49551	-0.03477	0.85718
0.03854	6.36925	1.91961	0.00418	-3.68518	0.79988	-0.00043	7.66418	0.49920	-0.03465	0.85746
0.03944	6.23352	1.92285	0.00601	-3.66002	0.79055	-0.00047	7.45627	0.50389	-0.03450	0.85754
0.04037	6.06592	1.92608	0.00797	-3.62894	0.77996	-0.00051	7.21161	0.50940	-0.03443	0.85813
0.04132	5.92211	1.92867	0.00957	-3.60134	0.77000	-0.00055	7.00489	0.51432	-0.03447	0.85940
0.04229	5.82793	1.93044	0.01068	-3.58174	0.76171	-0.00058	6.86873	0.51791	-0.03460	0.86115
0.04329	5.74469	1.93173	0.01168	-3.56375	0.75434	-0.00061	6.75307	0.52107	-0.03471	0.86280
0.04431	5.63306	1.93278	0.01291	-3.54063	0.74636	-0.00065	6.60829	0.52480	-0.03480	0.86434
0.04535	5.50112	1.93375	0.01425	-3.51367	0.73716	-0.00069	6.44303	0.52905	-0.03494	0.86619

0.04642	5.34125	1.93486	0.01576	-3.48172	0.72679	-0.00073	6.24774	0.53409	-0.03518	0.86866
0.04751	5.14452	1.93664	0.01775	-3.44361	0.71574	-0.00078	6.01312	0.54021	-0.03553	0.87178
0.04863	4.94151	1.93912	0.02011	-3.40473	0.70449	-0.00084	5.77631	0.54670	-0.03595	0.87536
0.04977	4.74952	1.94149	0.02234	-3.36770	0.69286	-0.00089	5.55825	0.55300	-0.03649	0.87966
0.05094	4.56115	1.94326	0.02418	-3.33095	0.68086	-0.00093	5.35164	0.55914	-0.03711	0.88444
0.05214	4.36237	1.94461	0.02555	-3.29230	0.66884	-0.00098	5.14082	0.56548	-0.03760	0.88834
0.05337	4.15541	1.94529	0.02647	-3.25216	0.65802	-0.00103	4.92808	0.57188	-0.03785	0.89067
0.05462	3.93884	1.94518	0.02726	-3.21018	0.64888	-0.00108	4.71269	0.57838	-0.03796	0.89207
0.05591	3.69004	1.94465	0.02848	-3.16264	0.64045	-0.00114	4.47132	0.58576	-0.03804	0.89346
0.05722	3.43647	1.94415	0.03012	-3.11464	0.63437	-0.00121	4.23254	0.59331	-0.03815	0.89516
0.05857	3.21895	1.94376	0.03169	-3.07341	0.63200	-0.00127	4.03381	0.59985	-0.03826	0.89696
0.05995	3.04779	1.94347	0.03277	-3.04058	0.63183	-0.00133	3.88111	0.60507	-0.03818	0.89764
0.06136	2.89637	1.94344	0.03342	-3.01122	0.63092	-0.00138	3.74859	0.60988	-0.03782	0.89651
0.06280	2.73848	1.94351	0.03375	-2.98046	0.62794	-0.00143	3.61326	0.61510	-0.03744	0.89531
0.06428	2.56610	1.94305	0.03403	-2.94645	0.62315	-0.00148	3.46951	0.62085	-0.03714	0.89476
0.06579	2.38401	1.94193	0.03443	-2.91019	0.61769	-0.00153	3.32089	0.62697	-0.03683	0.89423
0.06734	2.20141	1.94014	0.03484	-2.87320	0.61364	-0.00158	3.17847	0.63296	-0.03653	0.89385
0.06893	2.00994	1.93758	0.03516	-2.83384	0.61083	-0.00164	3.03605	0.63908	-0.03624	0.89344
0.07055	1.81054	1.93459	0.03533	-2.79301	0.60722	-0.00170	2.88818	0.64570	-0.03580	0.89192
0.07221	1.62448	1.93104	0.03538	-2.75432	0.60245	-0.00174	2.75043	0.65215	-0.03509	0.88820
0.07391	1.46485	1.92638	0.03526	-2.71940	0.59801	-0.00179	2.63514	0.65768	-0.03423	0.88329
0.07565	1.31733	1.92107	0.03518	-2.68604	0.59517	-0.00183	2.53188	0.66271	-0.03365	0.88012
0.07743	1.17624	1.91603	0.03536	-2.65377	0.59664	-0.00188	2.44024	0.66722	-0.03342	0.87926
0.07925	1.03960	1.91160	0.03567	-2.62269	0.60152	-0.00195	2.35632	0.67140	-0.03319	0.87825
0.08111	0.88412	1.90667	0.03579	-2.58819	0.60373	-0.00201	2.25516	0.67676	-0.03285	0.87665
0.08302	0.71147	1.89987	0.03544	-2.54926	0.60087	-0.00206	2.13882	0.68327	-0.03272	0.87656
0.08498	0.55546	1.89212	0.03448	-2.51241	0.59576	-0.00209	2.03557	0.68932	-0.03281	0.87809
0.08697	0.43145	1.88442	0.03291	-2.48156	0.59091	-0.00212	1.95487	0.69412	-0.03297	0.88011
0.08902	0.33537	1.87653	0.03076	-2.45601	0.58659	-0.00213	1.89157	0.69780	-0.03315	0.88226
0.09112	0.26077	1.86844	0.02815	-2.43434	0.58305	-0.00214	1.84261	0.70050	-0.03327	0.88411
0.09326	0.19290	1.86044	0.02536	-2.41410	0.58162	-0.00215	1.80126	0.70258	-0.03329	0.88556
0.09545	0.12519	1.85307	0.02264	-2.39479	0.58459	-0.00217	1.76377	0.70421	-0.03315	0.88624
0.09770	0.07495	1.84629	0.01971	-2.37939	0.59232	-0.00220	1.73785	0.70482	-0.03270	0.88515
0.10000	0.04270	1.83871	0.01634	-2.36647	0.60245	-0.00224	1.72200	0.70450	-0.03197	0.88247
0.10235	0.00676	1.82916	0.01270	-2.35085	0.61243	-0.00227	1.70458	0.70412	-0.03126	0.88015
0.10476	-0.02778	1.81967	0.00895	-2.33488	0.61988	-0.00230	1.68923	0.70381	-0.03072	0.87925
0.10723	-0.03647	1.81270	0.00499	-2.32496	0.62381	-0.00232	1.68978	0.70286	-0.03016	0.87825
0.10975	-0.03303	1.80774	0.00095	-2.31873	0.62587	-0.00233	1.69653	0.70180	-0.02927	0.87506
0.11233	-0.06700	1.80317	-0.00270	-2.30670	0.62666	-0.00233	1.67703	0.70279	-0.02803	0.86934
0.11498	-0.17622	1.79782	-0.00562	-2.28134	0.62379	-0.00235	1.60785	0.70767	-0.02659	0.86204
0.11768	-0.32916	1.79127	-0.00803	-2.24760	0.61952	-0.00237	1.51408	0.71468	-0.02523	0.85491
0.12045	-0.46296	1.78517	-0.01032	-2.21750	0.62050	-0.00240	1.43982	0.72020	-0.02428	0.85005
0.12328	-0.54731	1.77962	-0.01317	-2.19643	0.62593	-0.00244	1.39781	0.72293	-0.02383	0.84856
0.12619	-0.61704	1.77287	-0.01666	-2.17687	0.62658	-0.00245	1.36017	0.72543	-0.02364	0.84872
0.12916	-0.70157	1.76346	-0.02064	-2.15250	0.61779	-0.00244	1.30823	0.72947	-0.02340	0.84847
0.13219	-0.79974	1.75216	-0.02490	-2.12413	0.60496	-0.00242	1.24809	0.73444	-0.02307	0.84732
0.13531	-0.89829	1.74066	-0.02930	-2.09573	0.59728	-0.00241	1.19286	0.73880	-0.02269	0.84564
0.13849	-0.98969	1.72989	-0.03353	-2.06967	0.60077	-0.00243	1.14846	0.74166	-0.02224	0.84335
0.14175	-1.05681	1.72032	-0.03745	-2.04933	0.61634	-0.00249	1.12273	0.74207	-0.02163	0.83985
0.14508	-1.09526	1.71281	-0.04112	-2.03586	0.63914	-0.00255	1.11546	0.74035	-0.02086	0.83517
0.14850	-1.11742	1.70585	-0.04494	-2.02544	0.65967	-0.00261	1.11510	0.73811	-0.02015	0.83063
0.15199	-1.13729	1.69812	-0.04930	-2.01427	0.66972	-0.00264	1.11067	0.73680	-0.01952	0.82649
0.15557	-1.16252	1.69015	-0.05417	-2.00178	0.66786	-0.00262	1.09826	0.73691	-0.01882	0.82168
0.15923	-1.20609	1.68226	-0.05928	-1.98649	0.65933	-0.00260	1.07393	0.73860	-0.01797	0.81593
0.16298	-1.26603	1.67484	-0.06437	-1.96930	0.65361	-0.00258	1.04371	0.74077	-0.01708	0.80996
0.16681	-1.31740	1.66934	-0.06936	-1.95552	0.65651	-0.00259	1.02423	0.74144	-0.01618	0.80404
0.17074	-1.34569	1.66679	-0.07417	-1.94806	0.66596	-0.00262	1.02247	0.74008	-0.01516	0.79731
0.17475	-1.37019	1.66591	-0.07865	-1.94217	0.67523	-0.00265	1.02448	0.73866	-0.01386	0.78891
0.17887	-1.42163	1.66323	-0.08282	-1.92954	0.67698	-0.00266	1.00944	0.73955	-0.01242	0.77973
0.18307	-1.52012	1.65563	-0.08674	-1.90398	0.66804	-0.00266	0.96555	0.74403	-0.01111	0.77179
0.18738	-1.64826	1.64313	-0.09074	-1.86853	0.65403	-0.00265	0.90630	0.75038	-0.01006	0.76612
0.19179	-1.76824	1.62894	-0.09522	-1.83299	0.64473	-0.00265	0.85504	0.75548	-0.00916	0.76194
0.19631	-1.84560	1.61632	-0.10055	-1.80716	0.64595	-0.00267	0.82772	0.75679	-0.00822	0.75774
0.20092	-1.88092	1.60712	-0.10637	-1.79280	0.65509	-0.00270	0.82169	0.75484	-0.00734	0.75385
0.20565	-1.89357	1.60122	-0.11219	-1.78597	0.66709	-0.00271	0.82673	0.75151	-0.00670	0.75135
0.21049	-1.91491	1.59818	-0.11743	-1.78013	0.67901	-0.00273	0.82881	0.74913	-0.00638	0.75088
0.21544	-1.96605	1.59660	-0.12193	-1.77012	0.68853	-0.00275	0.81762	0.74914	-0.00627	0.75188
0.22051	-2.05595	1.59406	-0.12598	-1.75216	0.69148	-0.00277	0.78708	0.75233	-0.00620	0.75336
0.22570	-2.16837	1.58811	-0.13040	-1.72680	0.68516	-0.00277	0.74339	0.75776	-0.00606	0.75454
0.23101	-2.27904	1.57885	-0.13555	-1.69839	0.67283	-0.00275	0.69877	0.76349	-0.00579	0.75505
0.23645	-2.37784	1.56829	-0.14107	-1.67054	0.66172	-0.00273	0.66096	0.76814	-0.00540	0.75480
0.24201	-2.46429	1.55849	-0.14649	-1.64525	0.65687	-0.00273	0.63279	0.77109	-0.00483	0.75360
0.24771	-2.54323	1.55113	-0.15161	-1.62348	0.65740	-0.00275	0.61242	0.77278	-0.00394	0.75045
0.25354	-2.61788	1.54717	-0.15662	-1.60583	0.65900	-0.00277	0.59689	0.77400	-0.00265	0.74487
0.25950	-2.68847	1.54626	-0.16181	-1.59209	0.65807	-0.00277	0.58399	0.77526	-0.00119	0.73805
0.26561	-2.75546	1.54692	-0.16725	-1.58079	0.65303	-0.00275	0.57169	0.77683	0.00008	0.73226
0.27186	-2.82283	1.54732	-0.17282	-1.56957	0.64437	-0.00272	0.55734	0.77897	0.00091	0.72919
0.27826	-2.89374	1.54646	-0.17852	-1.55697	0.63481	-0.00268	0.54060	0.78143	0.00131	0.72896
0.28480	-2.96679	1.54463	-0.18434	-1.54352	0.62883	-0.00265	0.52416	0.78334	0.00144	0.73040
0.29150	-3.02713	1.54285	-0.19050	-1.53298	0.63133	-0.00265	0.51547	0.78276	0.00159	0.73155
0.29836	-3.05369	1.54212	-0.19727	-1.53015	0.64457	-0.00267	0.52302	0.77765	0.00196	0.73102

0.30539	-3.04699	1.54296	-0.20432	-1.53511	0.66588	-0.00270	0.54657	0.76870	0.00247	0.72921
0.31257	-3.02032	1.54500	-0.21127	-1.54471	0.68963	-0.00274	0.58042	0.75797	0.00299	0.72717
0.31993	-2.99235	1.54827	-0.21790	-1.55541	0.70975	-0.00277	0.61617	0.74789	0.00353	0.72498
0.32745	-2.98162	1.55305	-0.22401	-1.56402	0.72234	-0.00277	0.64474	0.74041	0.00430	0.72173
0.33517	-3.00131	1.55875	-0.22958	-1.56778	0.72687	-0.00276	0.65880	0.73650	0.00534	0.71687
0.34304	-3.05700	1.56420	-0.23460	-1.56481	0.72424	-0.00274	0.65453	0.73633	0.00651	0.71110
0.35112	-3.14060	1.56840	-0.23922	-1.55589	0.71652	-0.00271	0.63579	0.73882	0.00749	0.70618
0.35938	-3.23704	1.57069	-0.24366	-1.54324	0.70687	-0.00268	0.61014	0.74236	0.00798	0.70389
0.36784	-3.33550	1.57154	-0.24823	-1.52929	0.69834	-0.00265	0.58400	0.74565	0.00802	0.70393
0.37649	-3.43121	1.57181	-0.25313	-1.51567	0.69267	-0.00262	0.56050	0.74808	0.00787	0.70487
0.38536	-3.51901	1.57206	-0.25855	-1.50386	0.69021	-0.00260	0.54204	0.74915	0.00774	0.70566
0.39442	-3.59682	1.57277	-0.26435	-1.49464	0.68985	-0.00258	0.52973	0.74867	0.00766	0.70619
0.40370	-3.66509	1.57448	-0.27031	-1.48840	0.69018	-0.00255	0.52354	0.74676	0.00761	0.70683
0.41321	-3.72520	1.57767	-0.27616	-1.48533	0.69088	-0.00252	0.52272	0.74377	0.00760	0.70755
0.42292	-3.78407	1.58217	-0.28181	-1.48380	0.69182	-0.00250	0.52422	0.74047	0.00772	0.70774
0.43288	-3.85442	1.58713	-0.28728	-1.48030	0.69154	-0.00247	0.52255	0.73804	0.00807	0.70687
0.44307	-3.94215	1.59133	-0.29263	-1.47233	0.68833	-0.00245	0.51437	0.73717	0.00856	0.70548
0.45349	-4.04764	1.59389	-0.29781	-1.45880	0.68067	-0.00243	0.49882	0.73806	0.00893	0.70521
0.46417	-4.16994	1.59458	-0.30272	-1.43965	0.66756	-0.00241	0.47608	0.74080	0.00896	0.70760
0.47508	-4.30621	1.59400	-0.30728	-1.41619	0.64970	-0.00238	0.44800	0.74518	0.00861	0.71286
0.48626	-4.44712	1.59345	-0.31162	-1.39184	0.63053	-0.00236	0.41991	0.74999	0.00813	0.71931
0.49771	-4.58230	1.59428	-0.31595	-1.37029	0.61491	-0.00234	0.39733	0.75354	0.00789	0.72433
0.50942	-4.70981	1.59705	-0.32024	-1.35258	0.60611	-0.00234	0.38172	0.75508	0.00809	0.72659
0.52140	-4.83304	1.60133	-0.32431	-1.33760	0.60445	-0.00236	0.37118	0.75491	0.00858	0.72700
0.53367	-4.95351	1.60618	-0.32818	-1.32400	0.60777	-0.00239	0.36365	0.75359	0.00906	0.72752
0.54624	-5.06965	1.61105	-0.33193	-1.31154	0.61340	-0.00242	0.35830	0.75139	0.00930	0.72963
0.55910	-5.17594	1.61619	-0.33577	-1.30159	0.62050	-0.00246	0.35668	0.74783	0.00928	0.73343
0.57225	-5.27400	1.62206	-0.33974	-1.29424	0.62914	-0.00249	0.35852	0.74305	0.00916	0.73801
0.58569	-5.36663	1.62886	-0.34383	-1.28911	0.63974	-0.00252	0.36312	0.73734	0.00907	0.74244
0.59948	-5.45551	1.63657	-0.34798	-1.28594	0.65213	-0.00256	0.36980	0.73097	0.00910	0.74625
0.61357	-5.54548	1.64479	-0.35206	-1.28346	0.66411	-0.00260	0.37596	0.72485	0.00923	0.74935
0.62802	-5.64151	1.65320	-0.35600	-1.28042	0.67298	-0.00263	0.37977	0.71946	0.00946	0.75172
0.64280	-5.74588	1.66148	-0.35981	-1.27594	0.67668	-0.00264	0.38074	0.71486	0.00975	0.75339
0.65794	-5.85599	1.66966	-0.36361	-1.27047	0.67517	-0.00265	0.38095	0.71031	0.01006	0.75482
0.67340	-5.96630	1.67785	-0.36747	-1.26520	0.67003	-0.00264	0.38319	0.70496	0.01032	0.75662
0.68927	-6.01377	1.68726	-0.37231	-1.27462	0.67451	-0.00262	0.41725	0.68884	0.01053	0.75891
0.70547	-6.18632	1.69407	-0.37541	-1.25560	0.65500	-0.00261	0.39528	0.69127	0.01060	0.76203
0.72207	-6.30421	1.70161	-0.37939	-1.24914	0.64689	-0.00259	0.40092	0.68407	0.01061	0.76518
0.73910	-6.43629	1.70870	-0.38327	-1.23964	0.63838	-0.00259	0.40164	0.67792	0.01064	0.76756
0.75649	-6.58158	1.71545	-0.38708	-1.22734	0.62991	-0.00258	0.39733	0.67290	0.01083	0.76803
0.77429	-6.73375	1.72201	-0.39092	-1.21368	0.62242	-0.00259	0.39081	0.66820	0.01126	0.76571
0.79246	-6.88314	1.72851	-0.39481	-1.20071	0.61727	-0.00260	0.38620	0.66271	0.01192	0.76061
0.81116	-7.02288	1.73512	-0.39873	-1.19010	0.61556	-0.00261	0.38727	0.65526	0.01270	0.75363
0.83022	-7.14723	1.74194	-0.40255	-1.18291	0.61738	-0.00261	0.39633	0.64539	0.01351	0.74595
0.84976	-7.25858	1.74917	-0.40612	-1.17883	0.62167	-0.00261	0.41339	0.63338	0.01427	0.73835
0.86972	-7.36302	1.75694	-0.40926	-1.17654	0.62675	-0.00260	0.43548	0.62051	0.01498	0.73127
0.89023	-7.46472	1.76536	-0.41193	-1.17529	0.63225	-0.00259	0.46086	0.60751	0.01567	0.72501
0.91116	-7.56416	1.77425	-0.41411	-1.17457	0.63822	-0.00257	0.48808	0.59500	0.01629	0.72030
0.93257	-7.65992	1.78341	-0.41593	-1.17437	0.64530	-0.00256	0.51751	0.58295	0.01680	0.71758
0.95456	-7.75053	1.79269	-0.41754	-1.17476	0.65388	-0.00255	0.54974	0.57131	0.01715	0.71715
0.97704	-7.83501	1.80199	-0.41902	-1.17570	0.66386	-0.00254	0.58457	0.56022	0.01729	0.71936
1.00000	-7.91511	1.81141	-0.42042	-1.17689	0.67470	-0.00254	0.62038	0.55004	0.01717	0.72431
1.02354	-7.99320	1.82117	-0.42174	-1.17812	0.68593	-0.00254	0.65549	0.54105	0.01681	0.73170
1.04767	-8.07012	1.83142	-0.42299	-1.17945	0.69723	-0.00253	0.68875	0.53341	0.01630	0.74080
1.07227	-8.14589	1.84214	-0.42420	-1.18088	0.70828	-0.00253	0.71927	0.52716	0.01574	0.75068
1.09745	-8.22067	1.85324	-0.42544	-1.18239	0.71895	-0.00253	0.74666	0.52222	0.01519	0.76074
1.12334	-8.29397	1.86462	-0.42676	-1.18403	0.72931	-0.00252	0.77109	0.51844	0.01470	0.77066
1.14982	-8.36578	1.87609	-0.42818	-1.18565	0.73920	-0.00252	0.79187	0.51581	0.01428	0.78013
1.17675	-8.43717	1.88755	-0.42967	-1.18692	0.74836	-0.00251	0.80774	0.51437	0.01395	0.78884
1.20453	-8.51149	1.89915	-0.43120	-1.18740	0.75663	-0.00251	0.81755	0.51418	0.01372	0.79663
1.23289	-8.59138	1.91075	-0.43269	-1.18641	0.76341	-0.00250	0.81919	0.51535	0.01360	0.80313
1.26183	-8.68080	1.92225	-0.43405	-1.18304	0.76803	-0.00250	0.81034	0.51805	0.01357	0.80826
1.29149	-8.78305	1.93354	-0.43522	-1.17662	0.77015	-0.00250	0.78955	0.52239	0.01364	0.81213
1.32188	-8.89852	1.94446	-0.43622	-1.16695	0.76961	-0.00250	0.75761	0.52827	0.01380	0.81486
1.35300	-9.02562	1.95487	-0.43709	-1.15429	0.76645	-0.00250	0.71681	0.53545	0.01403	0.81658
1.38485	-9.16407	1.96464	-0.43790	-1.13863	0.76042	-0.00250	0.66814	0.54400	0.01437	0.81738
1.41743	-9.31298	1.97374	-0.43874	-1.12019	0.75135	-0.00250	0.61306	0.55399	0.01482	0.81738
1.45075	-9.47201	1.98224	-0.43961	-1.09919	0.73907	-0.00250	0.55280	0.56565	0.01538	0.81670
1.48500	-9.64178	1.99035	-0.44051	-1.07585	0.72327	-0.00249	0.48857	0.57932	0.01605	0.81549
1.51999	-9.81858	1.99825	-0.44139	-1.05126	0.70447	-0.00248	0.42419	0.59479	0.01678	0.81408
1.55569	-9.99933	2.00616	-0.44215	-1.02644	0.68365	-0.00247	0.36318	0.61159	0.01753	0.81292
1.59236	-10.18279	2.01436	-0.44273	-1.00207	0.66122	-0.00245	0.30760	0.62934	0.01822	0.81249
1.62973	-10.36514	2.02303	-0.44310	-0.97919	0.63808	-0.00242	0.25976	0.64711	0.01882	0.81315
1.66806	-10.54596	2.03235	-0.44321	-0.95822	0.61491	-0.00239	0.21999	0.66410	0.01931	0.81507
1.70736	-10.72538	2.04243	-0.44306	-0.93926	0.59209	-0.00236	0.18770	0.67972	0.01968	0.81826
1.74764	-10.90332	2.05324	-0.44263	-0.92234	0.57002	-0.00233	0.16222	0.69318	0.01994	0.82272
1.78859	-11.07716	2.06463	-0.44197	-0.90783	0.54950	-0.00230	0.14329	0.70334	0.02009	0.82832
1.83083	-11.24594	2.07674	-0.44114	-0.89632	0.53148	-0.00227	0.13090	0.70861	0.02018	0.83490
1.87371	-11.40431	2.08943	-0.44021	-0.88867	0.51721	-0.00225	0.12536	0.70745	0.02025	0.84196
1.91791	-11.55059	2.10281	-0.43920	-0.88563	0.50770	-0.00222	0.12764	0.69808	0.02035	0.84926
1.96309	-11.67830	2.11658	-0.43817	-0.88822	0.50434	-0.00220	0.14014	0.67887	0.02047	0.85660

2.00924	-11.78932	2.13054	-0.43697	-0.89573	0.50630	-0.00218	0.16395	0.65155	0.02059	0.86393
2.05634	-11.88552	2.14447	-0.43544	-0.90739	0.51258	-0.00215	0.20150	0.61811	0.02070	0.87115
2.10482	-11.97343	2.15827	-0.43338	-0.92164	0.52167	-0.00213	0.25445	0.58137	0.02080	0.87810
2.15424	-12.05671	2.17165	-0.43067	-0.93704	0.53245	-0.00211	0.32391	0.54384	0.02090	0.88440
2.20507	-12.13981	2.18465	-0.42722	-0.95268	0.54443	-0.00209	0.41175	0.50666	0.02103	0.88975
2.25683	-12.22242	2.19707	-0.42305	-0.96812	0.55757	-0.00208	0.52020	0.47052	0.02119	0.89408
2.31000	-12.30462	2.20904	-0.41815	-0.98355	0.57213	-0.00207	0.65439	0.43522	0.02136	0.89750
2.36463	-12.38592	2.22053	-0.41256	-0.99898	0.58840	-0.00206	0.81874	0.40097	0.02155	0.90016
2.42014	-12.46622	2.23150	-0.40640	-1.01405	0.60595	-0.00206	1.01435	0.36840	0.02174	0.90209
2.47709	-12.54758	2.24212	-0.39972	-1.02859	0.62467	-0.00207	1.24371	0.33755	0.02197	0.90331
2.53550	-12.63075	2.25244	-0.39261	-1.04237	0.64406	-0.00208	1.50613	0.30867	0.02223	0.90406
2.59471	-12.71619	2.26236	-0.38524	-1.05488	0.66295	-0.00209	1.79422	0.28224	0.02248	0.90475
2.65604	-12.80741	2.27209	-0.37753	-1.06600	0.68104	-0.00211	2.10601	0.25793	0.02267	0.90583
2.71887	-12.90499	2.28169	-0.36964	-1.07532	0.69758	-0.00212	2.42685	0.23622	0.02277	0.90763
2.78242	-13.00834	2.29112	-0.36171	-1.08270	0.71221	-0.00213	2.74198	0.21733	0.02279	0.91027
2.84819	-13.11907	2.30065	-0.35363	-1.08852	0.72549	-0.00215	3.05036	0.20069	0.02274	0.91392
2.91545	-13.23523	2.31025	-0.34556	-1.09287	0.73734	-0.00216	3.34245	0.18628	0.02261	0.91867
2.98329	-13.35399	2.31965	-0.33762	-1.09590	0.74761	-0.00217	3.60908	0.17412	0.02240	0.92438
3.05344	-13.47705	2.32921	-0.32970	-1.09801	0.75682	-0.00218	3.85668	0.16357	0.02214	0.93094
3.12598	-13.60341	2.33878	-0.32179	-1.09933	0.76505	-0.00219	4.08236	0.15457	0.02182	0.93808
3.19898	-13.72900	2.34820	-0.31419	-1.10001	0.77226	-0.00220	4.27921	0.14716	0.02149	0.94521
3.27439	-13.85671	2.35761	-0.30667	-1.10015	0.77869	-0.00220	4.45082	0.14107	0.02115	0.95216
3.35121	-13.98417	2.36690	-0.29944	-1.09980	0.78437	-0.00221	4.59358	0.13625	0.02081	0.95867
3.43053	-14.11253	2.37609	-0.29236	-1.09909	0.78955	-0.00221	4.71063	0.13254	0.02046	0.96505
3.51124	-14.23959	2.38512	-0.28562	-1.09806	0.79428	-0.00222	4.80172	0.12982	0.02010	0.97147
3.59324	-14.36446	2.39376	-0.27913	-1.09685	0.79863	-0.00222	4.86855	0.12805	0.01970	0.97833
3.67782	-14.49030	2.40258	-0.27287	-1.09540	0.80270	-0.00223	4.91465	0.12698	0.01928	0.98596
3.76506	-14.61453	2.41089	-0.26676	-1.09383	0.80646	-0.00223	4.93777	0.12683	0.01880	0.99489
3.85356	-14.73935	2.41961	-0.26093	-1.09208	0.80995	-0.00223	4.94281	0.12722	0.01833	1.00467
3.94477	-14.86094	2.42756	-0.25526	-1.09032	0.81313	-0.00224	4.92817	0.12843	0.01780	1.01543
4.03714	-14.98379	2.43608	-0.24977	-1.08845	0.81610	-0.00224	4.89916	0.13008	0.01728	1.02647
4.13223	-15.10415	2.44411	-0.24450	-1.08658	0.81884	-0.00224	4.85653	0.13228	0.01675	1.03776
4.23012	-15.22437	2.45207	-0.23927	-1.08473	0.82143	-0.00224	4.79993	0.13509	0.01620	1.04902
4.32900	-15.34555	2.46069	-0.23427	-1.08280	0.82389	-0.00224	4.73737	0.13801	0.01570	1.05943
4.43066	-15.46008	2.46797	-0.22942	-1.08116	0.82622	-0.00224	4.66737	0.14147	0.01516	1.06946
4.53515	-15.58005	2.47651	-0.22452	-1.07947	0.82857	-0.00224	4.59136	0.14512	0.01465	1.07880
4.64253	-15.69814	2.48487	-0.21981	-1.07790	0.83090	-0.00224	4.51584	0.14881	0.01416	1.08752
4.75059	-15.80762	2.49187	-0.21522	-1.07675	0.83319	-0.00224	4.43943	0.15283	0.01365	1.09574
4.86145	-15.92599	2.50088	-0.21056	-1.07545	0.83551	-0.00224	4.36043	0.15681	0.01317	1.10330
4.97760	-16.04086	2.50904	-0.20603	-1.07434	0.83785	-0.00224	4.28464	0.16081	0.01270	1.11059
5.09424	-16.14715	2.51586	-0.20159	-1.07366	0.84020	-0.00223	4.21068	0.16501	0.01219	1.11757
5.21376	-16.26521	2.52525	-0.19700	-1.07272	0.84255	-0.00223	4.13429	0.16912	0.01172	1.12402
5.33618	-16.37682	2.53351	-0.19270	-1.07196	0.84486	-0.00223	4.06526	0.17300	0.01127	1.13022
5.46150	-16.47736	2.53962	-0.18847	-1.07173	0.84726	-0.00223	4.00062	0.17704	0.01076	1.13658
5.58971	-16.59149	2.54864	-0.18397	-1.07124	0.84966	-0.00222	3.93198	0.18107	0.01028	1.14274
5.72082	-16.70743	2.55819	-0.17966	-1.07061	0.85195	-0.00222	3.86800	0.18477	0.00985	1.14878
5.85823	-16.80459	2.56370	-0.17561	-1.07067	0.85438	-0.00221	3.81340	0.18849	0.00934	1.15551
5.99520	-16.90790	2.57091	-0.17135	-1.07070	0.85679	-0.00221	3.75655	0.19226	0.00884	1.16224
6.13497	-17.02726	2.58152	-0.16691	-1.07025	0.85907	-0.00220	3.69667	0.19586	0.00841	1.16881
6.28141	-17.13199	2.58894	-0.16294	-1.07011	0.86134	-0.00220	3.64754	0.19912	0.00797	1.17573
6.42674	-17.21806	2.59304	-0.15923	-1.07056	0.86366	-0.00220	3.60608	0.20233	0.00748	1.18295
6.57895	-17.32437	2.60098	-0.15495	-1.07069	0.86600	-0.00219	3.55700	0.20574	0.00701	1.19036
6.73401	-17.44738	2.61246	-0.15051	-1.07031	0.86816	-0.00218	3.50508	0.20896	0.00661	1.19754
6.89180	-17.54284	2.61851	-0.14693	-1.07039	0.87026	-0.00218	3.46831	0.21165	0.00622	1.20488
7.05716	-17.62350	2.62126	-0.14344	-1.07105	0.87253	-0.00217	3.43687	0.21441	0.00576	1.21277
7.22022	-17.72112	2.62798	-0.13953	-1.07135	0.87469	-0.00217	3.39957	0.21723	0.00535	1.22018
7.39098	-17.84445	2.63967	-0.13506	-1.07113	0.87676	-0.00216	3.35517	0.22011	0.00498	1.22727
7.56430	-17.95048	2.64806	-0.13140	-1.07099	0.87865	-0.00215	3.32158	0.22243	0.00467	1.23387
7.73994	-18.01522	2.64824	-0.12869	-1.07175	0.88067	-0.00215	3.30342	0.22442	0.00430	1.24044
7.92393	-18.09901	2.65199	-0.12527	-1.07235	0.88276	-0.00215	3.27823	0.22669	0.00393	1.24669
8.11030	-18.20258	2.65993	-0.12131	-1.07263	0.88479	-0.00214	3.24720	0.22907	0.00359	1.25228
8.29876	-18.33132	2.67319	-0.11688	-1.07236	0.88662	-0.00213	3.21018	0.23142	0.00332	1.25709
8.49618	-18.42269	2.67866	-0.11385	-1.07249	0.88836	-0.00212	3.18904	0.23313	0.00307	1.26176
8.69565	-18.47258	2.67590	-0.11178	-1.07344	0.89021	-0.00212	3.18093	0.23456	0.00276	1.26659
8.90472	-18.55279	2.67899	-0.10867	-1.07408	0.89215	-0.00211	3.16313	0.23635	0.00246	1.27128
9.11577	-18.64644	2.68503	-0.10516	-1.07455	0.89403	-0.00211	3.14187	0.23819	0.00219	1.27576
9.32836	-18.77634	2.69869	-0.10061	-1.07453	0.89584	-0.00209	3.11097	0.24026	0.00196	1.27995
9.54198	-18.88951	2.70926	-0.09709	-1.07435	0.89733	-0.00208	3.08805	0.24178	0.00179	1.28405
9.76563	-18.92828	2.70446	-0.09587	-1.07516	0.89883	-0.00208	3.08672	0.24265	0.00157	1.28911
10.00000	-18.97798	2.70155	-0.09402	-1.07603	0.90051	-0.00208	3.08198	0.24374	0.00132	1.29495

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
High stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 305 - 610 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.74958	3.39683	-0.04934	-1.68974	1.01472	-0.00101	1.13923	0.45191	-0.02487	0.37397
PGV	2.26831	2.01223	-0.12359	-2.54071	1.36503	-0.00154	6.22728	0.34602	-0.01686	0.44149
PGA	5.38162	1.65502	-0.07769	-3.43331	1.35272	-0.00123	10.20509	0.37797	-0.03514	0.76773
0.01000	6.31104	1.67229	-0.07579	-3.61352	1.36643	-0.00102	11.67554	0.36606	-0.02501	0.77509
0.01024	6.29714	1.67520	-0.07489	-3.61212	1.35924	-0.00102	11.61913	0.36767	-0.02509	0.77571
0.01048	6.28574	1.67806	-0.07399	-3.61116	1.35217	-0.00101	11.56577	0.36923	-0.02518	0.77636
0.01072	6.27686	1.68088	-0.07308	-3.61064	1.34520	-0.00100	11.51558	0.37075	-0.02529	0.77706
0.01097	6.27025	1.68367	-0.07216	-3.61051	1.33828	-0.00099	11.46814	0.37224	-0.02541	0.77780
0.01123	6.26545	1.68642	-0.07122	-3.61071	1.33142	-0.00098	11.42268	0.37369	-0.02555	0.77859
0.01150	6.26270	1.68916	-0.07027	-3.61127	1.32462	-0.00097	11.37940	0.37512	-0.02570	0.77942
0.01177	6.26573	1.69192	-0.06930	-3.61290	1.31803	-0.00096	11.34460	0.37646	-0.02587	0.78033
0.01205	6.27467	1.69468	-0.06832	-3.61562	1.31162	-0.00095	11.31871	0.37771	-0.02606	0.78132
0.01233	6.28880	1.69746	-0.06734	-3.61927	1.30534	-0.00093	11.30053	0.37887	-0.02626	0.78235
0.01262	6.30796	1.70025	-0.06633	-3.62386	1.29914	-0.00092	11.28949	0.37997	-0.02647	0.78341
0.01292	6.33171	1.70307	-0.06530	-3.62928	1.29300	-0.00090	11.28456	0.38100	-0.02670	0.78457
0.01322	6.35930	1.70591	-0.06425	-3.63541	1.28696	-0.00088	11.28468	0.38199	-0.02694	0.78581
0.01353	6.39062	1.70877	-0.06317	-3.64222	1.28106	-0.00087	11.28959	0.38292	-0.02719	0.78710
0.01385	6.43060	1.71171	-0.06207	-3.65063	1.27532	-0.00085	11.30691	0.38374	-0.02747	0.78851
0.01417	6.48183	1.71473	-0.06094	-3.66112	1.26974	-0.00083	11.34092	0.38441	-0.02775	0.79003
0.01451	6.54302	1.71782	-0.05979	-3.67341	1.26429	-0.00080	11.38977	0.38494	-0.02805	0.79165
0.01485	6.61452	1.72094	-0.05866	-3.68755	1.25890	-0.00077	11.45453	0.38532	-0.02838	0.79345
0.01520	6.68754	1.72402	-0.05754	-3.70187	1.25344	-0.00075	11.52169	0.38567	-0.02871	0.79533
0.01556	6.75437	1.72699	-0.05642	-3.71496	1.24782	-0.00072	11.57864	0.38612	-0.02902	0.79718
0.01592	6.81824	1.72991	-0.05529	-3.72743	1.24219	-0.00070	11.63003	0.38661	-0.02933	0.79906
0.01630	6.88583	1.73287	-0.05411	-3.74055	1.23670	-0.00067	11.68616	0.38706	-0.02965	0.80104
0.01668	6.96346	1.73591	-0.05289	-3.75547	1.23125	-0.00065	11.75673	0.38740	-0.02996	0.80307
0.01707	7.05169	1.73909	-0.05163	-3.77235	1.22566	-0.00062	11.84074	0.38764	-0.03027	0.80508
0.01748	7.13792	1.74234	-0.05032	-3.78890	1.21983	-0.00059	11.91666	0.38799	-0.03056	0.80710
0.01789	7.21296	1.74557	-0.04897	-3.80339	1.21372	-0.00056	11.97108	0.38855	-0.03087	0.80922
0.01831	7.27059	1.74872	-0.04755	-3.81469	1.20730	-0.00054	11.99442	0.38940	-0.03119	0.81147
0.01874	7.31929	1.75179	-0.04609	-3.82430	1.20074	-0.00052	12.00200	0.39039	-0.03153	0.81380
0.01918	7.37994	1.75485	-0.04466	-3.83594	1.19443	-0.00050	12.03101	0.39118	-0.03187	0.81619
0.01963	7.45182	1.75791	-0.04323	-3.84947	1.18837	-0.00048	12.08006	0.39178	-0.03225	0.81874
0.02009	7.52243	1.76100	-0.04173	-3.86269	1.18216	-0.00046	12.12626	0.39243	-0.03265	0.82149
0.02057	7.59021	1.76416	-0.04016	-3.87541	1.17587	-0.00043	12.16477	0.39316	-0.03304	0.82417
0.02105	7.65729	1.76740	-0.03856	-3.88805	1.16976	-0.00041	12.19903	0.39395	-0.03340	0.82664
0.02154	7.73200	1.77070	-0.03700	-3.90201	1.16376	-0.00039	12.24395	0.39464	-0.03375	0.82910
0.02205	7.81842	1.77399	-0.03548	-3.91786	1.15768	-0.00037	12.30816	0.39518	-0.03416	0.83193
0.02257	7.89335	1.77719	-0.03397	-3.93141	1.15127	-0.00035	12.35372	0.39591	-0.03463	0.83514
0.02310	7.94920	1.78037	-0.03239	-3.94150	1.14466	-0.00034	12.36574	0.39695	-0.03505	0.83810
0.02364	8.00698	1.78360	-0.03078	-3.95198	1.13809	-0.00032	12.37901	0.39798	-0.03543	0.84073
0.02420	8.07989	1.78684	-0.02922	-3.96514	1.13151	-0.00030	12.41630	0.39879	-0.03583	0.84349
0.02477	8.16746	1.79006	-0.02770	-3.98084	1.12506	-0.00028	12.47721	0.39937	-0.03624	0.84637
0.02535	8.25606	1.79321	-0.02617	-3.99655	1.11872	-0.00026	12.54067	0.39993	-0.03667	0.84930
0.02595	8.33482	1.79627	-0.02459	-4.01025	1.11238	-0.00024	12.58902	0.40063	-0.03709	0.85223
0.02656	8.41007	1.79938	-0.02294	-4.02316	1.10584	-0.00023	12.62938	0.40145	-0.03750	0.85513
0.02719	8.47480	1.80262	-0.02123	-4.03416	1.09881	-0.00021	12.64741	0.40252	-0.03787	0.85785
0.02783	8.50273	1.80585	-0.01949	-4.03867	1.09124	-0.00021	12.60105	0.40418	-0.03818	0.86026
0.02848	8.49219	1.80902	-0.01773	-4.03638	1.08290	-0.00021	12.48926	0.40646	-0.03849	0.86269
0.02915	8.45976	1.81194	-0.01598	-4.02997	1.07333	-0.00022	12.34343	0.40907	-0.03882	0.86535
0.02984	8.42195	1.81443	-0.01429	-4.02217	1.06275	-0.00022	12.19387	0.41172	-0.03917	0.86822
0.03054	8.38964	1.81670	-0.01260	-4.01509	1.05214	-0.00022	12.05733	0.41424	-0.03960	0.87174
0.03126	8.36366	1.81882	-0.01099	-4.00885	1.04259	-0.00023	11.93971	0.41655	-0.04011	0.87584
0.03199	8.33685	1.82070	-0.00950	-4.00210	1.03497	-0.00024	11.83517	0.41865	-0.04061	0.87995
0.03275	8.31672	1.82239	-0.00812	-3.99624	1.02899	-0.00026	11.75173	0.42048	-0.04106	0.88379
0.03352	8.32503	1.82412	-0.00690	-3.99520	1.02385	-0.00027	11.71731	0.42183	-0.04152	0.88776
0.03430	8.35824	1.82629	-0.00569	-3.99867	1.01840	-0.00028	11.71695	0.42293	-0.04204	0.89221
0.03511	8.38379	1.82899	-0.00428	-4.00111	1.01131	-0.00028	11.69204	0.42442	-0.04242	0.89581
0.03594	8.36731	1.83162	-0.00278	-3.99616	1.00218	-0.00029	11.59562	0.42668	-0.04251	0.89759
0.03678	8.30798	1.83369	-0.00137	-3.98324	0.99206	-0.00031	11.43861	0.42953	-0.04250	0.89869
0.03765	8.20377	1.83513	-0.00001	-3.96192	0.98191	-0.00033	11.22199	0.43293	-0.04254	0.90009
0.03854	8.05543	1.83590	0.00135	-3.93226	0.97225	-0.00037	10.95085	0.43686	-0.04267	0.90213
0.03944	7.89292	1.83618	0.00263	-3.89967	0.96340	-0.00042	10.67248	0.44086	-0.04279	0.90409
0.04037	7.76176	1.83653	0.00380	-3.87252	0.95529	-0.00046	10.44826	0.44433	-0.04283	0.90545
0.04132	7.66601	1.83766	0.00500	-3.85210	0.94807	-0.00050	10.27213	0.44740	-0.04291	0.90710
0.04229	7.57063	1.83940	0.00635	-3.83225	0.94157	-0.00053	10.08962	0.45064	-0.04317	0.90987
0.04329	7.42888	1.84078	0.00774	-3.80437	0.93494	-0.00058	9.83943	0.45467	-0.04346	0.91279
0.04431	7.22328	1.84175	0.00919	-3.76537	0.92762	-0.00064	9.49948	0.45981	-0.04369	0.91532
0.04535	6.95878	1.84254	0.01080	-3.71597	0.91905	-0.00071	9.08407	0.46612	-0.04388	0.91756

0.04642	6.67386	1.84277	0.01235	-3.66221	0.91015	-0.00078	8.66455	0.47270	-0.04419	0.92057
0.04751	6.39773	1.84258	0.01370	-3.60928	0.90219	-0.00086	8.28190	0.47898	-0.04457	0.92395
0.04863	6.13182	1.84282	0.01506	-3.55830	0.89571	-0.00094	7.92444	0.48516	-0.04482	0.92631
0.04977	5.89053	1.84353	0.01648	-3.51198	0.89052	-0.00102	7.60526	0.49101	-0.04505	0.92836
0.05094	5.69228	1.84392	0.01768	-3.47280	0.88512	-0.00108	7.34861	0.49604	-0.04538	0.93092
0.05214	5.51037	1.84358	0.01864	-3.43563	0.87815	-0.00114	7.11781	0.50080	-0.04575	0.93373
0.05337	5.31345	1.84279	0.01958	-3.39546	0.87027	-0.00121	6.87002	0.50598	-0.04605	0.93615
0.05462	5.14196	1.84199	0.02025	-3.36009	0.86405	-0.00126	6.65546	0.51062	-0.04616	0.93743
0.05591	5.00972	1.84109	0.02059	-3.33187	0.85910	-0.00131	6.49056	0.51436	-0.04604	0.93720
0.05722	4.86550	1.83962	0.02087	-3.30119	0.85333	-0.00135	6.31469	0.51834	-0.04585	0.93652
0.05857	4.68113	1.83781	0.02127	-3.26319	0.84714	-0.00141	6.09610	0.52327	-0.04568	0.93621
0.05995	4.44176	1.83563	0.02191	-3.21524	0.84053	-0.00148	5.81866	0.52956	-0.04543	0.93573
0.06136	4.17372	1.83275	0.02247	-3.16162	0.83324	-0.00155	5.51777	0.53660	-0.04524	0.93585
0.06280	3.89341	1.82933	0.02282	-3.10539	0.82448	-0.00162	5.21173	0.54412	-0.04513	0.93671
0.06428	3.58395	1.82550	0.02319	-3.04360	0.81305	-0.00169	4.88111	0.55276	-0.04498	0.93733
0.06579	3.29285	1.82138	0.02342	-2.98475	0.80265	-0.00176	4.58256	0.56103	-0.04478	0.93751
0.06734	3.06783	1.81780	0.02349	-2.93824	0.79725	-0.00183	4.36213	0.56743	-0.04452	0.93736
0.06893	2.89165	1.81524	0.02360	-2.90142	0.79612	-0.00189	4.19383	0.57256	-0.04415	0.93638
0.07055	2.76035	1.81362	0.02342	-2.87346	0.79769	-0.00195	4.06912	0.57653	-0.04369	0.93476
0.07221	2.63238	1.81199	0.02300	-2.84614	0.79859	-0.00200	3.94599	0.58059	-0.04345	0.93439
0.07391	2.46475	1.80932	0.02269	-2.81079	0.79643	-0.00206	3.78572	0.58603	-0.04346	0.93562
0.07565	2.27744	1.80585	0.02250	-2.77101	0.79248	-0.00211	3.61331	0.59215	-0.04352	0.93702
0.07743	2.14527	1.80211	0.02163	-2.74066	0.79028	-0.00216	3.50175	0.59621	-0.04353	0.93788
0.07925	2.10673	1.79872	0.01968	-2.72707	0.78971	-0.00219	3.48092	0.59700	-0.04345	0.93810
0.08111	2.10317	1.79643	0.01741	-2.72044	0.78722	-0.00220	3.48880	0.59697	-0.04317	0.93689
0.08302	2.07236	1.79452	0.01538	-2.70978	0.78281	-0.00221	3.46539	0.59812	-0.04269	0.93434
0.08498	1.98576	1.79161	0.01371	-2.68933	0.77784	-0.00223	3.38619	0.60110	-0.04200	0.93044
0.08697	1.82049	1.78722	0.01260	-2.65447	0.77139	-0.00226	3.23352	0.60679	-0.04103	0.92486
0.08902	1.59649	1.78129	0.01185	-2.60832	0.76400	-0.00230	3.03213	0.61459	-0.03999	0.91897
0.09112	1.36578	1.77412	0.01105	-2.56006	0.76019	-0.00235	2.83460	0.62246	-0.03910	0.91442
0.09326	1.19935	1.76720	0.00964	-2.52351	0.76304	-0.00240	2.69808	0.62779	-0.03834	0.91110
0.09545	1.10839	1.76065	0.00754	-2.50036	0.77077	-0.00245	2.62895	0.63000	-0.03779	0.90942
0.09770	1.02010	1.75386	0.00538	-2.47691	0.77844	-0.00250	2.56780	0.63193	-0.03741	0.90908
0.10000	0.90274	1.74754	0.00339	-2.44862	0.78218	-0.00255	2.48278	0.63533	-0.03687	0.90767
0.10235	0.78426	1.74165	0.00116	-2.42099	0.78441	-0.00260	2.39379	0.63914	-0.03624	0.90576
0.10476	0.67621	1.73466	-0.00156	-2.39440	0.78716	-0.00263	2.31524	0.64236	-0.03600	0.90680
0.10723	0.55980	1.72517	-0.00475	-2.36381	0.78746	-0.00266	2.23481	0.64564	-0.03626	0.91134
0.10975	0.44742	1.71411	-0.00838	-2.33265	0.78586	-0.00269	2.16096	0.64850	-0.03664	0.91640
0.11233	0.37768	1.70326	-0.01243	-2.31002	0.78763	-0.00271	2.12186	0.64912	-0.03662	0.91814
0.11498	0.33797	1.69302	-0.01651	-2.29379	0.79279	-0.00273	2.10588	0.64821	-0.03608	0.91609
0.11768	0.29334	1.68234	-0.02053	-2.27633	0.79739	-0.00274	2.08426	0.64759	-0.03537	0.91277
0.12045	0.23035	1.67104	-0.02451	-2.25481	0.80055	-0.00276	2.04868	0.64783	-0.03445	0.90817
0.12328	0.15129	1.66021	-0.02832	-2.23014	0.80333	-0.00279	2.00383	0.64885	-0.03328	0.90221
0.12619	0.05565	1.65095	-0.03188	-2.20313	0.80552	-0.00282	1.94783	0.65098	-0.03201	0.89571
0.12916	-0.06471	1.64322	-0.03499	-2.17268	0.80751	-0.00287	1.87352	0.65470	-0.03041	0.88699
0.13219	-0.19128	1.63722	-0.03774	-2.14288	0.81172	-0.00292	1.79471	0.65904	-0.02855	0.87630
0.13531	-0.27711	1.63296	-0.04090	-2.12255	0.81870	-0.00296	1.74361	0.66163	-0.02710	0.86778
0.13849	-0.34664	1.62922	-0.04447	-2.10599	0.82383	-0.00299	1.70126	0.66376	-0.02633	0.86301
0.14175	-0.44382	1.62437	-0.04805	-2.08351	0.82140	-0.00300	1.63709	0.66779	-0.02588	0.85972
0.14508	-0.54957	1.61883	-0.05188	-2.05879	0.81350	-0.00300	1.56840	0.67245	-0.02533	0.85554
0.14850	-0.64090	1.61401	-0.05606	-2.03749	0.80597	-0.00299	1.51385	0.67612	-0.02444	0.84929
0.15199	-0.71212	1.60992	-0.06059	-2.02080	0.80009	-0.00298	1.47406	0.67860	-0.02328	0.84115
0.15557	-0.74960	1.60659	-0.06562	-2.01095	0.79536	-0.00296	1.45465	0.67941	-0.02208	0.83276
0.15923	-0.76749	1.60414	-0.07078	-2.00536	0.79102	-0.00294	1.44571	0.67943	-0.02095	0.82485
0.16298	-0.79589	1.60113	-0.07565	-1.99713	0.78714	-0.00292	1.43010	0.67997	-0.01977	0.81688
0.16681	-0.85858	1.59494	-0.08020	-1.97938	0.78354	-0.00291	1.39590	0.68177	-0.01867	0.80973
0.17074	-0.94062	1.58608	-0.08468	-1.95566	0.78096	-0.00292	1.35212	0.68409	-0.01795	0.80523
0.17475	-1.02099	1.57801	-0.08914	-1.93343	0.78253	-0.00293	1.30981	0.68629	-0.01748	0.80262
0.17887	-1.10871	1.57170	-0.09346	-1.91209	0.78635	-0.00295	1.26076	0.68940	-0.01711	0.80078
0.18307	-1.21093	1.56580	-0.09791	-1.88904	0.78743	-0.00295	1.20120	0.69383	-0.01681	0.79980
0.18738	-1.31464	1.55918	-0.10275	-1.86528	0.78654	-0.00295	1.14287	0.69825	-0.01667	0.80041
0.19179	-1.38241	1.55388	-0.10789	-1.84900	0.79015	-0.00296	1.11147	0.69988	-0.01672	0.80274
0.19631	-1.38696	1.55296	-0.11333	-1.84800	0.79996	-0.00296	1.12192	0.69724	-0.01682	0.80552
0.20092	-1.36313	1.55644	-0.11869	-1.85623	0.81038	-0.00295	1.15185	0.69312	-0.01677	0.80727
0.20565	-1.37325	1.56172	-0.12339	-1.86006	0.81768	-0.00295	1.16421	0.69131	-0.01653	0.80749
0.21049	-1.44924	1.56464	-0.12734	-1.84967	0.82049	-0.00296	1.13824	0.69346	-0.01638	0.80784
0.21544	-1.57775	1.56245	-0.13118	-1.82456	0.81763	-0.00298	1.08097	0.69869	-0.01640	0.80910
0.22051	-1.70779	1.55668	-0.13554	-1.79530	0.81216	-0.00300	1.02330	0.70386	-0.01619	0.80882
0.22570	-1.78838	1.55028	-0.14070	-1.77418	0.80758	-0.00301	0.99384	0.70569	-0.01533	0.80448
0.23101	-1.82112	1.54540	-0.14623	-1.76333	0.80480	-0.00300	0.99170	0.70427	-0.01380	0.79607
0.23645	-1.85220	1.54143	-0.15168	-1.75400	0.80278	-0.00298	0.99183	0.70255	-0.01200	0.78638
0.24201	-1.93053	1.53603	-0.15686	-1.73504	0.79895	-0.00298	0.96525	0.70392	-0.01059	0.77983
0.24771	-2.04585	1.52902	-0.16205	-1.70819	0.79336	-0.00298	0.91724	0.70792	-0.00980	0.77764
0.25354	-2.14023	1.52112	-0.16786	-1.68481	0.79020	-0.00297	0.88164	0.71007	-0.00933	0.77726
0.25950	-2.19961	1.51200	-0.17410	-1.66693	0.79154	-0.00297	0.86619	0.70896	-0.00899	0.77710
0.26561	-2.25949	1.50303	-0.17997	-1.64894	0.79370	-0.00297	0.85086	0.70789	-0.00884	0.77774
0.27186	-2.34076	1.49744	-0.18515	-1.62997	0.79320	-0.00298	0.82422	0.70933	-0.00883	0.77921
0.27826	-2.42880	1.49605	-0.19018	-1.61373	0.79178	-0.00299	0.79566	0.71194	-0.00880	0.78054
0.28480	-2.50625	1.49661	-0.19557	-1.60163	0.79191	-0.00300	0.77456	0.71365	-0.00878	0.78202
0.29150	-2.56167	1.49768	-0.20146	-1.59449	0.79457	-0.00300	0.76616	0.71318	-0.00879	0.78372
0.29836	-2.58544	1.49873	-0.20796	-1.59329	0.79869	-0.00298	0.77490	0.70977	-0.00858	0.78383

0.30539	-2.58871	1.49855	-0.21488	-1.59420	0.79978	-0.00294	0.79369	0.70478	-0.00793	0.78041
0.31257	-2.59663	1.49634	-0.22165	-1.59143	0.79379	-0.00288	0.80761	0.70075	-0.00681	0.77328
0.31993	-2.63111	1.49352	-0.22764	-1.58233	0.78196	-0.00282	0.80534	0.69963	-0.00567	0.76556
0.32745	-2.69414	1.49272	-0.23252	-1.56946	0.77001	-0.00277	0.78888	0.70127	-0.00506	0.76137
0.33517	-2.78095	1.49550	-0.23637	-1.55591	0.76232	-0.00276	0.76354	0.70478	-0.00495	0.76093
0.34304	-2.88332	1.50126	-0.23983	-1.54326	0.75936	-0.00276	0.73360	0.70921	-0.00485	0.76096
0.35112	-2.99001	1.50769	-0.24382	-1.53150	0.75891	-0.00277	0.70273	0.71356	-0.00438	0.75873
0.35938	-3.08564	1.51289	-0.24856	-1.52137	0.76021	-0.00278	0.67792	0.71639	-0.00367	0.75485
0.36784	-3.15587	1.51684	-0.25383	-1.51496	0.76432	-0.00279	0.66772	0.71614	-0.00313	0.75199
0.37649	-3.19722	1.52068	-0.25938	-1.51373	0.77121	-0.00279	0.67378	0.71280	-0.00292	0.75141
0.38536	-3.22642	1.52576	-0.26503	-1.51584	0.77816	-0.00278	0.68676	0.70858	-0.00289	0.75204
0.39442	-3.27160	1.53226	-0.27052	-1.51634	0.78027	-0.00277	0.69110	0.70645	-0.00278	0.75237
0.40370	-3.35195	1.53867	-0.27568	-1.51037	0.77471	-0.00274	0.67648	0.70790	-0.00262	0.75275
0.41321	-3.45805	1.54376	-0.28065	-1.49869	0.76437	-0.00271	0.64930	0.71141	-0.00243	0.75337
0.42292	-3.56559	1.54751	-0.28581	-1.48593	0.75394	-0.00268	0.62384	0.71415	-0.00205	0.75322
0.43288	-3.65577	1.55028	-0.29152	-1.47590	0.74617	-0.00265	0.60902	0.71427	-0.00149	0.75211
0.44307	-3.73254	1.55205	-0.29761	-1.46763	0.74046	-0.00262	0.60091	0.71264	-0.00098	0.75119
0.45349	-3.80943	1.55320	-0.30363	-1.45881	0.73449	-0.00258	0.59213	0.71104	-0.00065	0.75119
0.46417	-3.87536	1.55555	-0.30945	-1.45349	0.73000	-0.00254	0.58990	0.70828	-0.00045	0.75184
0.47508	-3.91276	1.56101	-0.31521	-1.45709	0.73164	-0.00250	0.60528	0.70219	-0.00024	0.75252
0.48626	-3.93333	1.56966	-0.32092	-1.46747	0.73982	-0.00247	0.63310	0.69405	0.00009	0.75267
0.49771	-3.97840	1.57961	-0.32616	-1.47465	0.74850	-0.00247	0.65106	0.68815	0.00064	0.75186
0.50942	-4.08078	1.58860	-0.33064	-1.46978	0.75072	-0.00248	0.64118	0.68745	0.00150	0.74936
0.52140	-4.23869	1.59529	-0.33445	-1.45158	0.74351	-0.00249	0.60456	0.69177	0.00259	0.74595
0.53367	-4.42611	1.59992	-0.33783	-1.42520	0.72872	-0.00249	0.55478	0.69919	0.00353	0.74403
0.54624	-4.61477	1.60388	-0.34096	-1.39757	0.71027	-0.00248	0.50571	0.70751	0.00415	0.74486
0.55910	-4.78590	1.60863	-0.34399	-1.37387	0.69120	-0.00245	0.46615	0.71481	0.00450	0.74783
0.57225	-4.93212	1.61500	-0.34710	-1.35637	0.67383	-0.00242	0.44004	0.71956	0.00476	0.75149
0.58569	-5.05771	1.62323	-0.35041	-1.34454	0.66077	-0.00239	0.42637	0.72134	0.00511	0.75447
0.59948	-5.16767	1.63334	-0.35399	-1.33782	0.65484	-0.00238	0.42388	0.71989	0.00562	0.75614
0.61357	-5.26425	1.64460	-0.35788	-1.33558	0.65669	-0.00239	0.43107	0.71522	0.00634	0.75621
0.62802	-5.34837	1.65568	-0.36225	-1.33665	0.66440	-0.00241	0.44648	0.70749	0.00729	0.75456
0.64280	-5.42013	1.66507	-0.36711	-1.33937	0.67606	-0.00243	0.46842	0.69718	0.00837	0.75181
0.65794	-5.48722	1.67196	-0.37227	-1.34107	0.68898	-0.00244	0.49237	0.68570	0.00940	0.74891
0.67340	-5.56112	1.67622	-0.37747	-1.33884	0.69988	-0.00245	0.51203	0.67490	0.01021	0.74699
0.68927	-5.64491	1.67860	-0.38256	-1.33247	0.70849	-0.00246	0.52638	0.66516	0.01063	0.74722
0.70547	-5.73645	1.68034	-0.38736	-1.32336	0.71638	-0.00247	0.53698	0.65639	0.01067	0.74978
0.72207	-5.83380	1.68270	-0.39182	-1.31331	0.72455	-0.00249	0.54588	0.64831	0.01042	0.75388
0.73910	-5.93711	1.68644	-0.39597	-1.30327	0.73236	-0.00252	0.55280	0.64109	0.01011	0.75790
0.75649	-6.04982	1.69148	-0.39981	-1.29269	0.73817	-0.00255	0.55540	0.63517	0.00996	0.76020
0.77429	-6.17266	1.69735	-0.40342	-1.28101	0.74019	-0.00257	0.55312	0.63056	0.00995	0.76079
0.79246	-6.30395	1.70360	-0.40676	-1.26805	0.73691	-0.00258	0.54585	0.62726	0.00990	0.76087
0.81116	-6.44263	1.71021	-0.40983	-1.25415	0.72870	-0.00257	0.53482	0.62493	0.00974	0.76104
0.83022	-6.57844	1.71733	-0.41272	-1.24145	0.71837	-0.00255	0.52658	0.62208	0.00957	0.76089
0.84976	-6.70220	1.72501	-0.41561	-1.23184	0.70883	-0.00253	0.52854	0.61685	0.00948	0.76004
0.86972	-6.81388	1.73305	-0.41841	-1.22492	0.70119	-0.00250	0.54159	0.60906	0.00951	0.75875
0.89023	-6.92750	1.74139	-0.42090	-1.21771	0.69465	-0.00248	0.55682	0.60087	0.00965	0.75731
0.91116	-7.05737	1.74987	-0.42292	-1.20699	0.68772	-0.00248	0.56194	0.59506	0.00996	0.75583
0.93257	-7.20567	1.75842	-0.42453	-1.19235	0.67959	-0.00248	0.55411	0.59217	0.01040	0.75444
0.95456	-7.36233	1.76723	-0.42588	-1.17625	0.67086	-0.00248	0.53979	0.59091	0.01094	0.75321
0.97704	-7.51293	1.77663	-0.42713	-1.16223	0.66316	-0.00248	0.52786	0.58947	0.01159	0.75194
1.00000	-7.64907	1.78682	-0.42839	-1.15248	0.65789	-0.00247	0.52411	0.58644	0.01232	0.75064
1.02354	-7.77127	1.79782	-0.42967	-1.14702	0.65517	-0.00245	0.52922	0.58152	0.01304	0.74971
1.04767	-7.88760	1.80941	-0.43092	-1.14393	0.65381	-0.00243	0.53832	0.57571	0.01373	0.74937
1.07227	-8.00545	1.82142	-0.43206	-1.14133	0.65314	-0.00240	0.54656	0.57005	0.01436	0.74959
1.09745	-8.13005	1.83383	-0.43308	-1.13806	0.65308	-0.00239	0.55153	0.56497	0.01495	0.75024
1.12334	-8.26404	1.84669	-0.43395	-1.13365	0.65325	-0.00238	0.55328	0.56039	0.01556	0.75079
1.14982	-8.40699	1.85984	-0.43463	-1.12798	0.65229	-0.00238	0.55331	0.55588	0.01624	0.75083
1.17675	-8.55641	1.87300	-0.43505	-1.12134	0.64928	-0.00238	0.55400	0.55081	0.01693	0.75041
1.20453	-8.71139	1.88630	-0.43508	-1.11433	0.64484	-0.00238	0.55882	0.54422	0.01763	0.74962
1.23289	-8.86427	1.89960	-0.43471	-1.10841	0.64088	-0.00239	0.57348	0.53490	0.01829	0.74860
1.26183	-9.00871	1.91301	-0.43400	-1.10502	0.63934	-0.00239	0.60398	0.52190	0.01889	0.74769
1.29149	-9.14370	1.92665	-0.43298	-1.10449	0.64105	-0.00239	0.65334	0.50525	0.01943	0.74697
1.32188	-9.26990	1.94052	-0.43165	-1.10656	0.64635	-0.00240	0.72292	0.48561	0.01993	0.74642
1.35300	-9.38807	1.95450	-0.42999	-1.11085	0.65511	-0.00241	0.81349	0.46386	0.02034	0.74642
1.38485	-9.50065	1.96839	-0.42795	-1.11647	0.66639	-0.00243	0.92315	0.44119	0.02058	0.74772
1.41743	-9.61013	1.98202	-0.42553	-1.12256	0.67899	-0.00244	1.04847	0.41863	0.02056	0.75106
1.45075	-9.71951	1.99533	-0.42285	-1.12827	0.69136	-0.00246	1.18395	0.39707	0.02036	0.75607
1.48500	-9.83287	2.00848	-0.41998	-1.13290	0.70232	-0.00246	1.32385	0.37700	0.02016	0.76168
1.51999	-9.95006	2.02152	-0.41697	-1.13640	0.71149	-0.00246	1.46345	0.35872	0.02005	0.76714
1.55569	-10.07054	2.03456	-0.41386	-1.13887	0.71912	-0.00246	1.59919	0.34232	0.02000	0.77270
1.59236	-10.19303	2.04772	-0.41065	-1.14068	0.72577	-0.00245	1.73104	0.32761	0.01987	0.77915
1.62973	-10.31493	2.06090	-0.40743	-1.14201	0.73177	-0.00244	1.85836	0.31455	0.01959	0.78690
1.66806	-10.43637	2.07417	-0.40430	-1.14283	0.73732	-0.00243	1.98028	0.30300	0.01915	0.79618
1.70736	-10.55846	2.08749	-0.40133	-1.14279	0.74224	-0.00242	2.09004	0.29319	0.01852	0.80720
1.74764	-10.68335	2.10087	-0.39858	-1.14138	0.74588	-0.00241	2.17839	0.28542	0.01771	0.81995
1.78859	-10.81261	2.11415	-0.39610	-1.13804	0.74754	-0.00239	2.23537	0.27995	0.01678	0.83402
1.83083	-10.94943	2.12746	-0.39390	-1.13238	0.74688	-0.00238	2.25610	0.27676	0.01575	0.84936
1.87371	-11.09085	2.14055	-0.39205	-1.12467	0.74409	-0.00236	2.24056	0.27581	0.01465	0.86553
1.91791	-11.23788	2.15360	-0.39055	-1.11503	0.73938	-0.00235	2.19169	0.27694	0.01350	0.88239
1.96309	-11.38778	2.16648	-0.38943	-1.10391	0.73308	-0.00233	2.11532	0.27997	0.01237	0.89918

2.00924	-11.53963	2.17919	-0.38864	-1.09160	0.72555	-0.00231	2.01741	0.28468	0.01133	0.91517
2.05634	-11.69170	2.19176	-0.38814	-1.07861	0.71736	-0.00229	1.90641	0.29073	0.01046	0.92969
2.10482	-11.84301	2.20432	-0.38787	-1.06546	0.70922	-0.00227	1.79031	0.29780	0.00978	0.94233
2.15424	-11.98995	2.21676	-0.38779	-1.05284	0.70175	-0.00226	1.67816	0.30534	0.00930	0.95272
2.20507	-12.13199	2.22917	-0.38785	-1.04111	0.69525	-0.00224	1.57516	0.31293	0.00901	0.96104
2.25683	-12.26739	2.24141	-0.38800	-1.03052	0.68965	-0.00223	1.48492	0.32013	0.00885	0.96752
2.31000	-12.39761	2.25358	-0.38819	-1.02099	0.68460	-0.00222	1.40765	0.32669	0.00880	0.97248
2.36463	-12.52329	2.26570	-0.38838	-1.01251	0.67996	-0.00220	1.34351	0.33236	0.00887	0.97607
2.42014	-12.64397	2.27768	-0.38853	-1.00516	0.67568	-0.00219	1.29337	0.33679	0.00906	0.97827
2.47709	-12.76167	2.28968	-0.38856	-0.99892	0.67197	-0.00217	1.25704	0.33977	0.00941	0.97908
2.53550	-12.87699	2.30164	-0.38843	-0.99376	0.66912	-0.00216	1.23517	0.34099	0.00991	0.97872
2.59471	-12.98934	2.31344	-0.38804	-0.98969	0.66740	-0.00214	1.22841	0.34024	0.01053	0.97749
2.65604	-13.10254	2.32535	-0.38727	-0.98656	0.66681	-0.00213	1.23673	0.33745	0.01128	0.97557
2.71887	-13.21545	2.33722	-0.38607	-0.98436	0.66784	-0.00212	1.26040	0.33262	0.01210	0.97347
2.78242	-13.32768	2.34891	-0.38440	-0.98298	0.67055	-0.00212	1.29780	0.32606	0.01296	0.97161
2.84819	-13.44206	2.36066	-0.38219	-0.98235	0.67504	-0.00212	1.34889	0.31796	0.01381	0.97051
2.91545	-13.55515	2.37231	-0.37949	-0.98277	0.68150	-0.00212	1.41633	0.30836	0.01461	0.97068
2.98329	-13.66467	2.38375	-0.37627	-0.98459	0.69002	-0.00213	1.50236	0.29758	0.01536	0.97202
3.05344	-13.77134	2.39527	-0.37250	-0.98808	0.70054	-0.00214	1.61395	0.28530	0.01608	0.97453
3.12598	-13.87462	2.40687	-0.36808	-0.99358	0.71341	-0.00216	1.75952	0.27143	0.01679	0.97778
3.19898	-13.97041	2.41814	-0.36322	-1.00089	0.72813	-0.00218	1.94033	0.25646	0.01748	0.98135
3.27439	-14.06234	2.42936	-0.35769	-1.01018	0.74503	-0.00220	2.16643	0.24021	0.01819	0.98472
3.35121	-14.14839	2.44019	-0.35169	-1.02106	0.76330	-0.00222	2.43825	0.22321	0.01887	0.98782
3.43053	-14.23211	2.45090	-0.34499	-1.03351	0.78282	-0.00224	2.76293	0.20563	0.01956	0.99047
3.51124	-14.31465	2.46125	-0.33789	-1.04636	0.80203	-0.00226	3.12257	0.18859	0.02022	0.99302
3.59324	-14.39950	2.47122	-0.33030	-1.05907	0.82028	-0.00227	3.50736	0.17252	0.02085	0.99542
3.67782	-14.48925	2.48097	-0.32242	-1.07088	0.83701	-0.00228	3.90447	0.15755	0.02143	0.99840
3.76506	-14.58945	2.49028	-0.31416	-1.08082	0.85142	-0.00228	4.28508	0.14441	0.02195	1.00202
3.85356	-14.69722	2.49941	-0.30595	-1.08850	0.86318	-0.00228	4.63762	0.13285	0.02237	1.00671
3.94477	-14.81642	2.50782	-0.29771	-1.09339	0.87179	-0.00229	4.92829	0.12375	0.02264	1.01239
4.03714	-14.94304	2.51625	-0.28960	-1.09611	0.87813	-0.00229	5.17038	0.11621	0.02279	1.01891
4.13223	-15.07629	2.52409	-0.28178	-1.09658	0.88228	-0.00229	5.34076	0.11088	0.02276	1.02629
4.23012	-15.21591	2.53161	-0.27404	-1.09533	0.88464	-0.00229	5.44906	0.10737	0.02256	1.03421
4.32900	-15.35251	2.53911	-0.26680	-1.09362	0.88642	-0.00229	5.52938	0.10470	0.02222	1.04228
4.43066	-15.48539	2.54535	-0.25995	-1.09148	0.88738	-0.00229	5.55863	0.10391	0.02170	1.05059
4.53515	-15.61820	2.55211	-0.25325	-1.08936	0.88838	-0.00229	5.57351	0.10364	0.02108	1.05895
4.64253	-15.74718	2.55853	-0.24700	-1.08720	0.88904	-0.00229	5.56489	0.10419	0.02041	1.06719
4.75059	-15.87041	2.56386	-0.24111	-1.08487	0.88886	-0.00229	5.51519	0.10627	0.01964	1.07526
4.86145	-15.99667	2.57048	-0.23528	-1.08253	0.88885	-0.00228	5.46262	0.10833	0.01887	1.08308
4.97760	-16.12041	2.57646	-0.22976	-1.08015	0.88858	-0.00228	5.39129	0.11112	0.01808	1.09079
5.09424	-16.23750	2.58141	-0.22451	-1.07787	0.88787	-0.00228	5.29616	0.11495	0.01724	1.09837
5.21376	-16.35988	2.58816	-0.21922	-1.07563	0.88749	-0.00227	5.20934	0.11836	0.01643	1.10569
5.33618	-16.47577	2.59412	-0.21434	-1.07367	0.88708	-0.00227	5.12202	0.12196	0.01564	1.11280
5.46150	-16.58352	2.59846	-0.20967	-1.07205	0.88630	-0.00226	5.01825	0.12651	0.01478	1.12017
5.58971	-16.69932	2.60499	-0.20478	-1.07040	0.88584	-0.00225	4.92000	0.13076	0.01394	1.12750
5.72082	-16.81472	2.61204	-0.20010	-1.06887	0.88568	-0.00225	4.83190	0.13459	0.01318	1.13468
5.85823	-16.91616	2.61603	-0.19581	-1.06796	0.88536	-0.00224	4.73447	0.13932	0.01237	1.14248
5.99520	-17.02014	2.62134	-0.19137	-1.06723	0.88529	-0.00223	4.64000	0.14399	0.01156	1.15037
6.13497	-17.13503	2.62942	-0.18672	-1.06633	0.88564	-0.00223	4.55596	0.14801	0.01082	1.15814
6.28141	-17.23839	2.63509	-0.18258	-1.06580	0.88604	-0.00222	4.47748	0.15207	0.01012	1.16610
6.42674	-17.32576	2.63809	-0.17886	-1.06585	0.88638	-0.00221	4.39805	0.15655	0.00940	1.17425
6.57895	-17.42880	2.64420	-0.17455	-1.06575	0.88700	-0.00220	4.31887	0.16090	0.00868	1.18270
6.73401	-17.54494	2.65333	-0.16996	-1.06530	0.88789	-0.00219	4.24767	0.16462	0.00804	1.19092
6.89180	-17.63826	2.65811	-0.16632	-1.06531	0.88870	-0.00219	4.18719	0.16815	0.00747	1.19903
7.05716	-17.71903	2.66010	-0.16295	-1.06589	0.88949	-0.00218	4.12531	0.17214	0.00685	1.20758
7.22022	-17.81298	2.66541	-0.15909	-1.06618	0.89044	-0.00217	4.06496	0.17582	0.00627	1.21571
7.39098	-17.92904	2.67500	-0.15452	-1.06603	0.89159	-0.00216	4.00483	0.17919	0.00573	1.22361
7.56430	-18.03054	2.68194	-0.15076	-1.06597	0.89269	-0.00215	3.95646	0.18205	0.00528	1.23083
7.73994	-18.09602	2.68186	-0.14824	-1.06675	0.89361	-0.00215	3.91572	0.18506	0.00483	1.23775
7.92393	-18.17776	2.68477	-0.14500	-1.06739	0.89468	-0.00214	3.87009	0.18822	0.00436	1.24443
8.11030	-18.27662	2.69131	-0.14109	-1.06771	0.89588	-0.00213	3.82315	0.19122	0.00391	1.25053
8.29876	-18.39800	2.70261	-0.13648	-1.06752	0.89718	-0.00212	3.77618	0.19388	0.00352	1.25595
8.49618	-18.48682	2.70724	-0.13343	-1.06773	0.89830	-0.00212	3.74268	0.19612	0.00319	1.26098
8.69565	-18.53821	2.70457	-0.13172	-1.06868	0.89923	-0.00211	3.71636	0.19844	0.00285	1.26592
8.90472	-18.61656	2.70700	-0.12882	-1.06932	0.90035	-0.00211	3.68274	0.20094	0.00249	1.27088
9.11577	-18.70688	2.71204	-0.12544	-1.06977	0.90155	-0.00210	3.64815	0.20334	0.00215	1.27567
9.32836	-18.83014	2.72393	-0.12070	-1.06979	0.90294	-0.00209	3.60829	0.20572	0.00182	1.28035
9.54198	-18.93877	2.73325	-0.11695	-1.06969	0.90415	-0.00207	3.57822	0.20752	0.00157	1.28484
9.76563	-18.97956	2.72880	-0.11613	-1.07049	0.90495	-0.00207	3.56456	0.20902	0.00135	1.28988
10.00000	-19.03005	2.72595	-0.11472	-1.07130	0.90586	-0.00207	3.54620	0.21077	0.00109	1.29573

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
High stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 610 - 1220 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.87703	3.40488	-0.04406	-1.67235	0.98371	-0.00096	0.98826	0.47419	-0.02798	0.39306
PGV	3.67059	2.10931	-0.09884	-2.93077	1.45764	-0.00099	8.49352	0.32509	-0.02235	0.47350
PGA	4.39473	1.70973	-0.07231	-3.31355	1.16025	-0.00090	7.86131	0.42040	-0.04146	0.81377
0.01000	5.21227	1.72725	-0.07029	-3.47427	1.17066	-0.00071	8.95975	0.40855	-0.02414	0.77463
0.01024	5.17771	1.73004	-0.06928	-3.46903	1.16239	-0.00071	8.88073	0.41068	-0.02425	0.77540
0.01048	5.14829	1.73282	-0.06827	-3.46473	1.15436	-0.00070	8.80866	0.41272	-0.02437	0.77624
0.01072	5.12378	1.73559	-0.06726	-3.46134	1.14653	-0.00070	8.74292	0.41467	-0.02450	0.77711
0.01097	5.10329	1.73835	-0.06624	-3.45870	1.13883	-0.00069	8.68216	0.41655	-0.02464	0.77800
0.01123	5.08622	1.74109	-0.06521	-3.45668	1.13129	-0.00068	8.62561	0.41837	-0.02480	0.77892
0.01150	5.07292	1.74383	-0.06417	-3.45537	1.12393	-0.00067	8.57376	0.42011	-0.02497	0.77990
0.01177	5.06308	1.74657	-0.06312	-3.45469	1.11667	-0.00066	8.52605	0.42181	-0.02515	0.78093
0.01205	5.05706	1.74933	-0.06205	-3.45472	1.10951	-0.00065	8.48279	0.42344	-0.02535	0.78201
0.01233	5.05596	1.75212	-0.06096	-3.45566	1.10246	-0.00064	8.44547	0.42499	-0.02556	0.78315
0.01262	5.05856	1.75493	-0.05985	-3.45730	1.09549	-0.00063	8.41237	0.42649	-0.02578	0.78433
0.01292	5.06367	1.75776	-0.05871	-3.45941	1.08854	-0.00061	8.38168	0.42796	-0.02602	0.78557
0.01322	5.07183	1.76060	-0.05755	-3.46208	1.08159	-0.00060	8.35425	0.42939	-0.02627	0.78692
0.01353	5.08294	1.76345	-0.05638	-3.46527	1.07465	-0.00059	8.33011	0.43077	-0.02655	0.78836
0.01385	5.09830	1.76635	-0.05518	-3.46926	1.06775	-0.00057	8.31069	0.43209	-0.02682	0.78983
0.01417	5.12046	1.76931	-0.05397	-3.47451	1.06100	-0.00055	8.29952	0.43331	-0.02711	0.79139
0.01451	5.15096	1.77229	-0.05276	-3.48125	1.05441	-0.00054	8.29969	0.43437	-0.02742	0.79309
0.01485	5.18617	1.77527	-0.05156	-3.48879	1.04784	-0.00052	8.30602	0.43534	-0.02772	0.79481
0.01520	5.22447	1.77829	-0.05032	-3.49689	1.04123	-0.00050	8.31514	0.43628	-0.02802	0.79655
0.01556	5.26972	1.78138	-0.04907	-3.50626	1.03470	-0.00047	8.33230	0.43713	-0.02835	0.79847
0.01592	5.31764	1.78447	-0.04782	-3.51608	1.02809	-0.00045	8.35187	0.43794	-0.02869	0.80061
0.01630	5.36179	1.78750	-0.04654	-3.52514	1.02136	-0.00043	8.36534	0.43883	-0.02903	0.80281
0.01668	5.40977	1.79055	-0.04528	-3.53489	1.01486	-0.00041	8.38344	0.43966	-0.02937	0.80501
0.01707	5.46850	1.79368	-0.04401	-3.54658	1.00871	-0.00039	8.41585	0.44029	-0.02972	0.80737
0.01748	5.53284	1.79686	-0.04272	-3.55924	1.00258	-0.00036	8.45524	0.44084	-0.03010	0.80999
0.01789	5.59172	1.79999	-0.04138	-3.57082	0.99617	-0.00034	8.48591	0.44151	-0.03048	0.81265
0.01831	5.64480	1.80311	-0.04000	-3.58126	0.98943	-0.00032	8.50703	0.44234	-0.03084	0.81519
0.01874	5.70232	1.80627	-0.03859	-3.59245	0.98246	-0.00029	8.53276	0.44312	-0.03119	0.81762
0.01918	5.76377	1.80950	-0.03716	-3.60434	0.97535	-0.00027	8.56174	0.44389	-0.03152	0.81998
0.01963	5.81877	1.81281	-0.03570	-3.61510	0.96827	-0.00025	8.57910	0.44483	-0.03185	0.82228
0.02009	5.86136	1.81609	-0.03423	-3.62360	0.96106	-0.00023	8.57794	0.44601	-0.03216	0.82452
0.02057	5.90194	1.81932	-0.03278	-3.63168	0.95359	-0.00021	8.57329	0.44725	-0.03251	0.82701
0.02105	5.96402	1.82269	-0.03134	-3.64355	0.94607	-0.00019	8.59740	0.44812	-0.03294	0.82998
0.02154	6.04798	1.82622	-0.02988	-3.65926	0.93848	-0.00016	8.65042	0.44866	-0.03340	0.83322
0.02205	6.12745	1.82979	-0.02832	-3.67402	0.93035	-0.00014	8.69518	0.44936	-0.03387	0.83653
0.02257	6.18963	1.83324	-0.02670	-3.68548	0.92178	-0.00012	8.71528	0.45041	-0.03431	0.83960
0.02310	6.24384	1.83655	-0.02508	-3.69536	0.91335	-0.00010	8.72526	0.45156	-0.03471	0.84241
0.02364	6.28931	1.83981	-0.02347	-3.70358	0.90480	-0.00008	8.72203	0.45290	-0.03514	0.84544
0.02420	6.31703	1.84304	-0.02178	-3.70849	0.89599	-0.00007	8.69295	0.45460	-0.03567	0.84917
0.02477	6.32985	1.84613	-0.02008	-3.71050	0.88725	-0.00006	8.64597	0.45654	-0.03629	0.85352
0.02535	6.34911	1.84915	-0.01846	-3.71349	0.87829	-0.00006	8.60890	0.45834	-0.03693	0.85797
0.02595	6.38513	1.85227	-0.01690	-3.71950	0.86901	-0.00004	8.59256	0.45990	-0.03750	0.86201
0.02656	6.43447	1.85557	-0.01538	-3.72797	0.85991	-0.00003	8.59273	0.46125	-0.03801	0.86567
0.02719	6.49029	1.85895	-0.01391	-3.73746	0.85075	-0.00001	8.60200	0.46250	-0.03850	0.86927
0.02783	6.51394	1.86228	-0.01233	-3.74098	0.84088	-0.00000	8.56944	0.46437	-0.03895	0.87263
0.02848	6.47687	1.86550	-0.01049	-3.73362	0.83010	-0.00001	8.45555	0.46739	-0.03937	0.87587
0.02915	6.40179	1.86860	-0.00850	-3.71949	0.81861	-0.00002	8.28984	0.47120	-0.03976	0.87896
0.02984	6.30815	1.87161	-0.00646	-3.70201	0.80675	-0.00004	8.10008	0.47542	-0.04014	0.88208
0.03054	6.19923	1.87448	-0.00434	-3.68173	0.79529	-0.00006	7.89564	0.47990	-0.04053	0.88537
0.03126	6.09302	1.87726	-0.00222	-3.66194	0.78512	-0.00009	7.70234	0.48422	-0.04081	0.88806
0.03199	6.00692	1.88010	-0.00022	-3.64582	0.77643	-0.00011	7.53976	0.48807	-0.04093	0.88978
0.03275	5.95737	1.88296	0.00151	-3.63609	0.76877	-0.00013	7.42638	0.49116	-0.04103	0.89148
0.03352	5.93508	1.88565	0.00296	-3.63081	0.76103	-0.00014	7.35033	0.49366	-0.04128	0.89413
0.03430	5.89928	1.88819	0.00432	-3.62277	0.75219	-0.00015	7.26098	0.49644	-0.04162	0.89754
0.03511	5.83040	1.89057	0.00582	-3.60853	0.74177	-0.00017	7.13295	0.49996	-0.04199	0.90125
0.03594	5.72677	1.89276	0.00749	-3.58778	0.72972	-0.00019	6.96381	0.50430	-0.04245	0.90556
0.03678	5.58642	1.89480	0.00931	-3.56030	0.71712	-0.00023	6.75538	0.50945	-0.04297	0.91040
0.03765	5.43858	1.89711	0.01122	-3.53164	0.70562	-0.00027	6.54432	0.51478	-0.04343	0.91482
0.03854	5.31628	1.89997	0.01312	-3.50812	0.69724	-0.00031	6.36795	0.51950	-0.04374	0.91815
0.03944	5.22790	1.90285	0.01473	-3.49091	0.69202	-0.00034	6.23574	0.52328	-0.04388	0.92033
0.04037	5.15702	1.90477	0.01587	-3.47639	0.68843	-0.00038	6.13077	0.52633	-0.04394	0.92196
0.04132	5.09897	1.90576	0.01663	-3.46338	0.68547	-0.00041	6.04796	0.52881	-0.04426	0.92523
0.04229	5.04520	1.90643	0.01725	-3.45049	0.68189	-0.00044	5.97555	0.53111	-0.04479	0.92982
0.04329	4.97736	1.90724	0.01804	-3.43479	0.67595	-0.00047	5.88722	0.53394	-0.04519	0.93361
0.04431	4.86754	1.90810	0.01922	-3.41149	0.66708	-0.00051	5.74922	0.53802	-0.04533	0.93565
0.04535	4.70130	1.90880	0.02083	-3.37837	0.65681	-0.00055	5.54949	0.54357	-0.04521	0.93583

0.04642	4.51533	1.90945	0.02257	-3.34213	0.64703	-0.00060	5.33242	0.54962	-0.04487	0.93448
0.04751	4.35252	1.91028	0.02410	-3.31015	0.63727	-0.00064	5.14405	0.55521	-0.04455	0.93297
0.04863	4.17899	1.91119	0.02561	-3.27619	0.62636	-0.00068	4.94991	0.56119	-0.04445	0.93282
0.04977	3.97204	1.91175	0.02723	-3.23596	0.61473	-0.00073	4.72998	0.56804	-0.04453	0.93385
0.05094	3.77170	1.91194	0.02875	-3.19668	0.60470	-0.00078	4.52481	0.57464	-0.04461	0.93485
0.05214	3.60929	1.91168	0.02995	-3.16385	0.59801	-0.00083	4.36484	0.57999	-0.04461	0.93526
0.05337	3.46800	1.91079	0.03091	-3.13427	0.59362	-0.00088	4.23209	0.58452	-0.04445	0.93462
0.05462	3.34789	1.90942	0.03150	-3.10803	0.59044	-0.00093	4.12279	0.58836	-0.04424	0.93377
0.05591	3.23899	1.90816	0.03185	-3.08385	0.58741	-0.00097	4.02433	0.59196	-0.04413	0.93363
0.05722	3.11649	1.90745	0.03231	-3.05763	0.58323	-0.00101	3.91413	0.59615	-0.04407	0.93392
0.05857	2.96674	1.90701	0.03291	-3.02658	0.57729	-0.00106	3.78263	0.60127	-0.04398	0.93428
0.05995	2.77944	1.90580	0.03360	-2.98807	0.56948	-0.00112	3.62351	0.60751	-0.04383	0.93448
0.06136	2.54704	1.90301	0.03446	-2.94028	0.55881	-0.00117	3.42966	0.61522	-0.04359	0.93415
0.06280	2.29441	1.89930	0.03550	-2.88817	0.54661	-0.00123	3.22353	0.62381	-0.04339	0.93413
0.06428	2.05416	1.89547	0.03646	-2.83814	0.53501	-0.00129	3.03364	0.63221	-0.04320	0.93424
0.06579	1.81348	1.89153	0.03745	-2.78815	0.52456	-0.00134	2.84998	0.64077	-0.04282	0.93306
0.06734	1.56211	1.88775	0.03869	-2.73690	0.51706	-0.00141	2.66694	0.64964	-0.04229	0.93073
0.06893	1.32941	1.88440	0.03998	-2.68989	0.51456	-0.00148	2.50645	0.65771	-0.04173	0.92806
0.07055	1.13471	1.88148	0.04102	-2.65016	0.51431	-0.00155	2.37731	0.66453	-0.04114	0.92513
0.07221	0.98330	1.87829	0.04140	-2.61784	0.51354	-0.00160	2.27958	0.66994	-0.04067	0.92292
0.07391	0.85867	1.87437	0.04110	-2.58961	0.51233	-0.00164	2.20109	0.67436	-0.04040	0.92205
0.07565	0.73533	1.86927	0.04061	-2.56060	0.51276	-0.00169	2.12623	0.67849	-0.04031	0.92226
0.07743	0.59842	1.86282	0.04008	-2.52796	0.51392	-0.00174	2.04450	0.68303	-0.04035	0.92331
0.07925	0.46179	1.85544	0.03928	-2.49458	0.51393	-0.00179	1.96307	0.68770	-0.04056	0.92545
0.08111	0.34868	1.84771	0.03817	-2.46529	0.51359	-0.00183	1.89514	0.69162	-0.04085	0.92816
0.08302	0.26466	1.84005	0.03666	-2.44144	0.51360	-0.00186	1.84439	0.69445	-0.04097	0.92976
0.08498	0.17137	1.83293	0.03494	-2.41624	0.51181	-0.00189	1.78847	0.69786	-0.04084	0.93003
0.08697	0.04195	1.82638	0.03334	-2.38510	0.50734	-0.00192	1.70933	0.70331	-0.04053	0.92943
0.08902	-0.09317	1.82046	0.03174	-2.35364	0.50319	-0.00195	1.62725	0.70932	-0.04008	0.92816
0.09112	-0.20539	1.81510	0.03000	-2.32691	0.50249	-0.00199	1.56220	0.71413	-0.03946	0.92575
0.09326	-0.31236	1.80948	0.02829	-2.30109	0.50298	-0.00202	1.50121	0.71871	-0.03866	0.92202
0.09545	-0.41222	1.80289	0.02647	-2.27584	0.50397	-0.00206	1.44489	0.72293	-0.03779	0.91797
0.09770	-0.50199	1.79469	0.02428	-2.25128	0.50695	-0.00209	1.39683	0.72620	-0.03704	0.91482
0.10000	-0.58791	1.78567	0.02170	-2.22706	0.51064	-0.00212	1.35246	0.72902	-0.03655	0.91368
0.10235	-0.67056	1.77769	0.01895	-2.20432	0.51271	-0.00214	1.30955	0.73203	-0.03625	0.91426
0.10476	-0.73751	1.77122	0.01598	-2.18557	0.51391	-0.00216	1.27451	0.73458	-0.03596	0.91520
0.10723	-0.77797	1.76484	0.01261	-2.17176	0.51852	-0.00218	1.25491	0.73543	-0.03550	0.91521
0.10975	-0.81181	1.75774	0.00904	-2.15871	0.52686	-0.00221	1.24041	0.73544	-0.03479	0.91325
0.11233	-0.85948	1.74954	0.00547	-2.14235	0.53786	-0.00225	1.22096	0.73567	-0.03390	0.90945
0.11498	-0.91689	1.74070	0.00193	-2.12378	0.55166	-0.00230	1.19872	0.73598	-0.03301	0.90512
0.11768	-0.98672	1.73243	-0.00125	-2.10345	0.56509	-0.00235	1.16991	0.73716	-0.03210	0.90060
0.12045	-1.06135	1.72502	-0.00406	-2.08290	0.57592	-0.00240	1.13721	0.73910	-0.03106	0.89562
0.12328	-1.11855	1.71873	-0.00692	-2.06644	0.58645	-0.00244	1.11458	0.74010	-0.03012	0.89130
0.12619	-1.14400	1.71331	-0.01022	-2.05673	0.59828	-0.00247	1.10948	0.73907	-0.02943	0.88833
0.12916	-1.14063	1.70870	-0.01416	-2.05284	0.60923	-0.00250	1.12025	0.73630	-0.02879	0.88531
0.13219	-1.13680	1.70363	-0.01851	-2.04784	0.61400	-0.00251	1.13350	0.73355	-0.02811	0.88175
0.13531	-1.14896	1.69720	-0.02314	-2.03806	0.60962	-0.00249	1.13820	0.73212	-0.02749	0.87837
0.13849	-1.16506	1.69044	-0.02818	-2.02741	0.60032	-0.00246	1.13588	0.73169	-0.02712	0.87662
0.14175	-1.18240	1.68450	-0.03341	-2.01776	0.59155	-0.00243	1.12860	0.73187	-0.02685	0.87545
0.14508	-1.20997	1.67925	-0.03849	-2.00711	0.58476	-0.00241	1.11555	0.73265	-0.02648	0.87340
0.14850	-1.26267	1.67466	-0.04304	-1.99309	0.58263	-0.00240	1.09329	0.73423	-0.02593	0.86959
0.15199	-1.33551	1.67081	-0.04696	-1.97688	0.58692	-0.00243	1.06501	0.73616	-0.02509	0.86332
0.15557	-1.41036	1.66712	-0.05071	-1.96021	0.59139	-0.00245	1.03626	0.73829	-0.02419	0.85657
0.15923	-1.48655	1.66300	-0.05468	-1.94196	0.59118	-0.00247	1.00452	0.74128	-0.02334	0.85089
0.16298	-1.56235	1.65882	-0.05889	-1.92305	0.58914	-0.00248	0.97220	0.74472	-0.02256	0.84617
0.16681	-1.61465	1.65556	-0.06355	-1.90905	0.59028	-0.00249	0.95298	0.74656	-0.02187	0.84244
0.17074	-1.64497	1.65298	-0.06844	-1.89959	0.59414	-0.00250	0.94716	0.74659	-0.02118	0.83881
0.17475	-1.67325	1.64990	-0.07316	-1.88987	0.59790	-0.00251	0.94386	0.74621	-0.02051	0.83528
0.17887	-1.74772	1.64527	-0.07724	-1.87064	0.59605	-0.00252	0.91509	0.74936	-0.01992	0.83237
0.18307	-1.86985	1.63964	-0.08082	-1.84254	0.58684	-0.00251	0.86026	0.75651	-0.01936	0.82990
0.18738	-1.98171	1.63406	-0.08478	-1.81702	0.57576	-0.00250	0.81066	0.76325	-0.01864	0.82653
0.19179	-2.03899	1.62858	-0.08974	-1.80232	0.57111	-0.00248	0.78799	0.76545	-0.01784	0.82229
0.19631	-2.03843	1.62331	-0.09560	-1.79922	0.57661	-0.00246	0.79382	0.76236	-0.01704	0.81768
0.20092	-2.00358	1.61920	-0.10194	-1.80368	0.58963	-0.00246	0.81828	0.75601	-0.01619	0.81301
0.20565	-1.98507	1.61612	-0.10809	-1.80545	0.60016	-0.00245	0.83648	0.75112	-0.01537	0.80927
0.21049	-2.02723	1.61192	-0.11377	-1.79454	0.60091	-0.00244	0.82350	0.75141	-0.01452	0.80581
0.21544	-2.11896	1.60596	-0.11918	-1.77296	0.59476	-0.00242	0.78550	0.75571	-0.01353	0.80128
0.22051	-2.22698	1.59936	-0.12453	-1.74755	0.58663	-0.00241	0.74208	0.76122	-0.01258	0.79681
0.22570	-2.32973	1.59353	-0.12975	-1.72331	0.57897	-0.00240	0.70331	0.76650	-0.01171	0.79310
0.23101	-2.44173	1.58838	-0.13417	-1.69764	0.57195	-0.00240	0.66150	0.77294	-0.01095	0.79062
0.23645	-2.56188	1.58428	-0.13777	-1.67129	0.56934	-0.00242	0.61936	0.77997	-0.01034	0.78920
0.24201	-2.64268	1.58193	-0.14168	-1.65429	0.57440	-0.00244	0.59552	0.78341	-0.00989	0.78858
0.24771	-2.68937	1.58012	-0.14645	-1.64480	0.58027	-0.00244	0.58414	0.78415	-0.00949	0.78824
0.25354	-2.72834	1.57585	-0.15209	-1.63449	0.58173	-0.00243	0.57509	0.78404	-0.00913	0.78828
0.25950	-2.77289	1.57025	-0.15808	-1.62147	0.58081	-0.00242	0.56690	0.78360	-0.00867	0.78781
0.26561	-2.81129	1.56642	-0.16411	-1.61142	0.57990	-0.00241	0.56407	0.78212	-0.00764	0.78362
0.27186	-2.82746	1.56394	-0.17016	-1.60712	0.57890	-0.00239	0.57160	0.77835	-0.00608	0.77540
0.27826	-2.84783	1.56169	-0.17581	-1.60193	0.57820	-0.00237	0.57934	0.77463	-0.00446	0.76602
0.28480	-2.89326	1.56068	-0.18097	-1.59305	0.58007	-0.00238	0.57727	0.77330	-0.00301	0.75781
0.29150	-2.93285	1.56089	-0.18631	-1.58689	0.58670	-0.00238	0.57607	0.77175	-0.00195	0.75245
0.29836	-2.96024	1.56073	-0.19190	-1.58305	0.59444	-0.00239	0.57909	0.76906	-0.00126	0.74968

0.30539	-3.01498	1.55899	-0.19717	-1.57254	0.59689	-0.00238	0.57029	0.76890	-0.00065	0.74728
0.31257	-3.10742	1.55589	-0.20210	-1.55357	0.59138	-0.00237	0.54492	0.77265	0.00005	0.74402
0.31993	-3.21553	1.55240	-0.20694	-1.53129	0.57960	-0.00234	0.51292	0.77845	0.00073	0.74072
0.32745	-3.32903	1.54882	-0.21165	-1.50790	0.56751	-0.00232	0.48070	0.78470	0.00119	0.73857
0.33517	-3.45102	1.54488	-0.21623	-1.48243	0.55957	-0.00232	0.44916	0.79097	0.00128	0.73844
0.34304	-3.55613	1.54247	-0.22101	-1.46156	0.55799	-0.00234	0.42882	0.79437	0.00132	0.73858
0.35112	-3.60818	1.54432	-0.22639	-1.45534	0.56562	-0.00236	0.43298	0.79074	0.00186	0.73576
0.35938	-3.61948	1.54984	-0.23218	-1.46131	0.57875	-0.00237	0.45461	0.78227	0.00296	0.72950
0.36784	-3.62856	1.55592	-0.23805	-1.46911	0.59008	-0.00237	0.47527	0.77425	0.00417	0.72223
0.37649	-3.65696	1.56091	-0.24390	-1.47252	0.59596	-0.00236	0.48496	0.76925	0.00511	0.71632
0.38536	-3.71445	1.56515	-0.24965	-1.46943	0.59443	-0.00233	0.48138	0.76804	0.00570	0.71291
0.39442	-3.80347	1.56907	-0.25501	-1.45961	0.58704	-0.00230	0.46668	0.77013	0.00584	0.71300
0.40370	-3.90953	1.57290	-0.25998	-1.44614	0.58079	-0.00229	0.44901	0.77305	0.00570	0.71566
0.41321	-4.00473	1.57638	-0.26505	-1.43464	0.58032	-0.00231	0.43824	0.77361	0.00560	0.71824
0.42292	-4.06792	1.57880	-0.27069	-1.42883	0.58458	-0.00232	0.43985	0.76995	0.00574	0.71910
0.43288	-4.11692	1.58010	-0.27659	-1.42493	0.58956	-0.00232	0.44579	0.76472	0.00604	0.71862
0.44307	-4.18633	1.58110	-0.28201	-1.41667	0.59268	-0.00232	0.44238	0.76224	0.00630	0.71802
0.45349	-4.29584	1.58391	-0.28641	-1.40224	0.59491	-0.00234	0.42332	0.76488	0.00639	0.71860
0.46417	-4.43243	1.59010	-0.28980	-1.38586	0.59767	-0.00237	0.39602	0.77108	0.00621	0.72188
0.47508	-4.56670	1.59901	-0.29286	-1.37280	0.59936	-0.00239	0.37202	0.77728	0.00605	0.72626
0.48626	-4.67902	1.60840	-0.29654	-1.36469	0.59933	-0.00240	0.35841	0.78022	0.00636	0.72819
0.49771	-4.76805	1.61560	-0.30127	-1.35900	0.59883	-0.00240	0.35518	0.77890	0.00714	0.72688
0.50942	-4.84142	1.61990	-0.30689	-1.35352	0.59842	-0.00240	0.35873	0.77439	0.00807	0.72416
0.52140	-4.90771	1.62288	-0.31288	-1.34841	0.59737	-0.00238	0.36528	0.76850	0.00877	0.72266
0.53367	-4.97308	1.62599	-0.31880	-1.34442	0.59567	-0.00236	0.37199	0.76247	0.00919	0.72321
0.54624	-5.02850	1.62997	-0.32453	-1.34429	0.59561	-0.00232	0.38229	0.75515	0.00944	0.72533
0.55910	-5.07088	1.63512	-0.33004	-1.34839	0.59692	-0.00226	0.39705	0.74666	0.00955	0.72886
0.57225	-5.11099	1.64169	-0.33526	-1.35405	0.59851	-0.00222	0.41253	0.73857	0.00969	0.73246
0.58569	-5.15786	1.64950	-0.34044	-1.35910	0.60085	-0.00218	0.42754	0.73102	0.01021	0.73344
0.59948	-5.21551	1.65774	-0.34598	-1.36245	0.60314	-0.00216	0.44264	0.72331	0.01110	0.73132
0.61357	-5.28231	1.66575	-0.35172	-1.36420	0.60509	-0.00215	0.45871	0.71499	0.01196	0.72864
0.62802	-5.35915	1.67298	-0.35730	-1.36347	0.60602	-0.00213	0.47403	0.70663	0.01240	0.72827
0.64280	-5.44864	1.67875	-0.36262	-1.35863	0.60345	-0.00211	0.48446	0.69943	0.01240	0.73095
0.65794	-5.55146	1.68355	-0.36778	-1.34999	0.59698	-0.00208	0.48821	0.69397	0.01237	0.73416
0.67340	-5.65688	1.68897	-0.37271	-1.34145	0.58971	-0.00204	0.49036	0.68925	0.01273	0.73533
0.68927	-5.74765	1.69641	-0.37722	-1.33820	0.58628	-0.00200	0.50038	0.68312	0.01341	0.73463
0.70547	-5.82480	1.70567	-0.38109	-1.33976	0.58756	-0.00198	0.51802	0.67565	0.01417	0.73326
0.72207	-5.90693	1.71520	-0.38445	-1.34047	0.58925	-0.00198	0.53461	0.66862	0.01484	0.73187
0.73910	-6.00942	1.72350	-0.38764	-1.33526	0.58760	-0.00199	0.54237	0.66340	0.01547	0.73019
0.75649	-6.13387	1.73021	-0.39084	-1.32344	0.58318	-0.00200	0.53955	0.66019	0.01608	0.72812
0.77429	-6.27052	1.73582	-0.39400	-1.30784	0.57962	-0.00202	0.53106	0.65786	0.01657	0.72610
0.79246	-6.40229	1.74106	-0.39702	-1.29296	0.58068	-0.00204	0.52534	0.65466	0.01686	0.72422
0.81116	-6.52334	1.74710	-0.39986	-1.28140	0.58787	-0.00207	0.52583	0.65007	0.01695	0.72247
0.83022	-6.63901	1.75495	-0.40246	-1.27321	0.60067	-0.00211	0.52913	0.64510	0.01702	0.72010
0.84976	-6.75672	1.76467	-0.40495	-1.26713	0.61677	-0.00215	0.53261	0.64016	0.01726	0.71619
0.86972	-6.87310	1.77518	-0.40753	-1.26263	0.63222	-0.00220	0.53858	0.63443	0.01764	0.71153
0.89023	-6.98354	1.78602	-0.41016	-1.26014	0.64465	-0.00223	0.55093	0.62696	0.01810	0.70736
0.91116	-7.08701	1.79672	-0.41270	-1.25932	0.65267	-0.00224	0.57154	0.61749	0.01863	0.70405
0.93257	-7.18599	1.80658	-0.41519	-1.25878	0.65573	-0.00224	0.60077	0.60600	0.01913	0.70192
0.95456	-7.28676	1.81548	-0.41762	-1.25687	0.65515	-0.00223	0.63498	0.59355	0.01951	0.70139
0.97704	-7.38797	1.82409	-0.41990	-1.25439	0.65502	-0.00222	0.67418	0.58058	0.01978	0.70242
1.00000	-7.48426	1.83313	-0.42194	-1.25306	0.65857	-0.00223	0.72234	0.56685	0.01996	0.70472
1.02354	-7.58107	1.84311	-0.42357	-1.25237	0.66542	-0.00226	0.77463	0.55363	0.02010	0.70775
1.04767	-7.68713	1.85398	-0.42480	-1.25050	0.67317	-0.00229	0.82005	0.54266	0.02022	0.71114
1.07227	-7.80436	1.86478	-0.42573	-1.24606	0.67920	-0.00231	0.85158	0.53441	0.02021	0.71535
1.09745	-7.92992	1.87473	-0.42656	-1.23907	0.68167	-0.00232	0.86871	0.52828	0.02003	0.72047
1.12334	-8.06402	1.88366	-0.42749	-1.22949	0.67927	-0.00230	0.87020	0.52408	0.01986	0.72547
1.14982	-8.20575	1.89190	-0.42858	-1.21792	0.67253	-0.00226	0.85553	0.52186	0.01974	0.72995
1.17675	-8.34831	1.90017	-0.42974	-1.20646	0.66449	-0.00221	0.83102	0.52106	0.01955	0.73456
1.20453	-8.48928	1.90922	-0.43088	-1.19633	0.65839	-0.00216	0.80332	0.52097	0.01922	0.73970
1.23289	-8.63051	1.91905	-0.43186	-1.18679	0.65497	-0.00212	0.77310	0.52162	0.01873	0.74552
1.26183	-8.77612	1.92948	-0.43265	-1.17655	0.65307	-0.00211	0.74084	0.52292	0.01818	0.75169
1.29149	-8.93101	1.94043	-0.43316	-1.16444	0.65176	-0.00211	0.70652	0.52483	0.01772	0.75735
1.32188	-9.09374	1.95177	-0.43337	-1.15058	0.65130	-0.00214	0.67290	0.52696	0.01734	0.76272
1.35300	-9.25295	1.96363	-0.43337	-1.13750	0.65364	-0.00218	0.64913	0.52784	0.01706	0.76782
1.38485	-9.39868	1.97630	-0.43326	-1.12777	0.66062	-0.00224	0.64236	0.52617	0.01708	0.77156
1.41743	-9.52947	1.98982	-0.43304	-1.12193	0.67200	-0.00230	0.65247	0.52198	0.01743	0.77366
1.45075	-9.65039	2.00387	-0.43258	-1.11872	0.68623	-0.00236	0.67366	0.51628	0.01791	0.77545
1.48500	-9.76491	2.01820	-0.43184	-1.11741	0.70204	-0.00242	0.70271	0.50960	0.01827	0.77851
1.51999	-9.86911	2.03256	-0.43093	-1.11870	0.71857	-0.00248	0.74339	0.50130	0.01847	0.78288
1.55569	-9.96194	2.04672	-0.43001	-1.12261	0.73452	-0.00252	0.79974	0.49082	0.01867	0.78751
1.59236	-10.04495	2.06040	-0.42914	-1.12856	0.74852	-0.00255	0.87440	0.47798	0.01886	0.79239
1.62973	-10.12192	2.07324	-0.42824	-1.13533	0.75926	-0.00256	0.96471	0.46348	0.01890	0.79853
1.66806	-10.20040	2.08536	-0.42717	-1.14172	0.76653	-0.00255	1.06454	0.44825	0.01871	0.80637
1.70736	-10.28985	2.09703	-0.42585	-1.14638	0.77038	-0.00253	1.16238	0.43341	0.01844	0.81477
1.74764	-10.39476	2.10855	-0.42426	-1.14897	0.77198	-0.00250	1.25152	0.41928	0.01829	0.82223
1.78859	-10.51593	2.11994	-0.42237	-1.14925	0.77241	-0.00247	1.32717	0.40605	0.01831	0.82837
1.83083	-10.65418	2.13138	-0.42007	-1.14717	0.77221	-0.00245	1.38920	0.39354	0.01838	0.83412
1.87371	-10.80220	2.14278	-0.41738	-1.14361	0.77174	-0.00242	1.43988	0.38182	0.01833	0.84089
1.91791	-10.95616	2.15456	-0.41424	-1.13984	0.77110	-0.00240	1.48536	0.37064	0.01803	0.84971
1.96309	-11.10971	2.16677	-0.41069	-1.13705	0.77025	-0.00237	1.53198	0.35982	0.01753	0.86027

2.00924	-11.25877	2.17934	-0.40673	-1.13598	0.76951	-0.00234	1.58852	0.34882	0.01694	0.87162
2.05634	-11.40411	2.19209	-0.40239	-1.13616	0.76879	-0.00231	1.65773	0.33744	0.01640	0.88255
2.10482	-11.54951	2.20497	-0.39767	-1.13673	0.76809	-0.00228	1.73944	0.32561	0.01603	0.89206
2.15424	-11.69509	2.21772	-0.39266	-1.13703	0.76719	-0.00225	1.83267	0.31350	0.01588	0.89957
2.20507	-11.84380	2.23029	-0.38737	-1.13638	0.76574	-0.00223	1.93714	0.30110	0.01592	0.90528
2.25683	-11.99273	2.24253	-0.38186	-1.13503	0.76464	-0.00222	2.05827	0.28822	0.01614	0.90905
2.31000	-12.14061	2.25461	-0.37608	-1.13363	0.76538	-0.00222	2.20772	0.27433	0.01658	0.91046
2.36463	-12.28425	2.26656	-0.37004	-1.13290	0.76892	-0.00222	2.39404	0.25941	0.01717	0.90982
2.42014	-12.42170	2.27830	-0.36388	-1.13292	0.77511	-0.00223	2.61014	0.24433	0.01772	0.90841
2.47709	-12.55784	2.29003	-0.35760	-1.13287	0.78249	-0.00225	2.83753	0.23012	0.01809	0.90769
2.53550	-12.69835	2.30193	-0.35130	-1.13157	0.78949	-0.00227	3.04804	0.21778	0.01822	0.90858
2.59471	-12.84481	2.31406	-0.34512	-1.12849	0.79496	-0.00228	3.21846	0.20793	0.01814	0.91131
2.65604	-12.99996	2.32680	-0.33901	-1.12376	0.79870	-0.00230	3.34424	0.20039	0.01791	0.91583
2.71887	-13.15924	2.34009	-0.33315	-1.11809	0.80091	-0.00230	3.42812	0.19492	0.01763	0.92160
2.78242	-13.31771	2.35376	-0.32765	-1.11222	0.80191	-0.00230	3.47886	0.19121	0.01739	0.92799
2.84819	-13.47671	2.36801	-0.32239	-1.10644	0.80205	-0.00230	3.50638	0.18881	0.01722	0.93490
2.91545	-13.63401	2.38256	-0.31750	-1.10064	0.80135	-0.00229	3.51308	0.18751	0.01713	0.94237
2.98329	-13.78700	2.39706	-0.31304	-1.09488	0.79994	-0.00228	3.50142	0.18722	0.01708	0.95028
3.05344	-13.93837	2.41174	-0.30897	-1.08901	0.79803	-0.00227	3.47628	0.18762	0.01705	0.95886
3.12598	-14.08737	2.42651	-0.30528	-1.08315	0.79576	-0.00225	3.43980	0.18869	0.01701	0.96801
3.19898	-14.22966	2.44087	-0.30211	-1.07738	0.79331	-0.00224	3.39595	0.19017	0.01696	0.97726
3.27439	-14.36896	2.45521	-0.29931	-1.07168	0.79071	-0.00222	3.34579	0.19207	0.01690	0.98643
3.35121	-14.50209	2.46929	-0.29690	-1.06639	0.78847	-0.00220	3.29676	0.19405	0.01684	0.99512
3.43053	-14.63151	2.48334	-0.29477	-1.06151	0.78663	-0.00218	3.24970	0.19609	0.01678	1.00342
3.51124	-14.75562	2.49710	-0.29290	-1.05702	0.78534	-0.00217	3.20939	0.19781	0.01673	1.01128
3.59324	-14.87498	2.51066	-0.29113	-1.05316	0.78489	-0.00216	3.17957	0.19911	0.01670	1.01871
3.67782	-14.99018	2.52412	-0.28949	-1.04992	0.78553	-0.00214	3.16697	0.19951	0.01669	1.02622
3.76506	-15.10310	2.53761	-0.28769	-1.04762	0.78743	-0.00214	3.17234	0.19921	0.01668	1.03380
3.85356	-15.20942	2.55075	-0.28603	-1.04603	0.79063	-0.00213	3.20219	0.19755	0.01665	1.04185
3.94477	-15.31433	2.56368	-0.28403	-1.04548	0.79586	-0.00213	3.25239	0.19511	0.01656	1.05004
4.03714	-15.41257	2.57623	-0.28214	-1.04570	0.80271	-0.00214	3.32937	0.19130	0.01642	1.05845
4.13223	-15.50878	2.58830	-0.27994	-1.04684	0.81167	-0.00215	3.42750	0.18668	0.01616	1.06712
4.23012	-15.60325	2.60026	-0.27741	-1.04902	0.82284	-0.00216	3.55502	0.18094	0.01586	1.07551
4.32900	-15.68944	2.61149	-0.27491	-1.05214	0.83512	-0.00218	3.71661	0.17384	0.01554	1.08362
4.43066	-15.77589	2.62224	-0.27177	-1.05667	0.84931	-0.00220	3.89955	0.16655	0.01515	1.09117
4.53515	-15.85686	2.63283	-0.26855	-1.06226	0.86428	-0.00221	4.12300	0.15798	0.01485	1.09815
4.64253	-15.93717	2.64284	-0.26505	-1.06838	0.87873	-0.00222	4.35435	0.14968	0.01457	1.10479
4.75059	-16.02101	2.65243	-0.26089	-1.07518	0.89314	-0.00222	4.57711	0.14242	0.01432	1.11055
4.86145	-16.10170	2.66196	-0.25674	-1.08218	0.90683	-0.00222	4.82349	0.13443	0.01423	1.11568
4.97760	-16.19146	2.67096	-0.25218	-1.08840	0.91845	-0.00222	5.02940	0.12807	0.01419	1.12038
5.09424	-16.29125	2.67955	-0.24699	-1.09381	0.92793	-0.00221	5.17923	0.12372	0.01421	1.12408
5.21376	-16.39156	2.68830	-0.24188	-1.09839	0.93534	-0.00219	5.33195	0.11888	0.01441	1.12730
5.33618	-16.49945	2.69612	-0.23674	-1.10106	0.93975	-0.00217	5.41951	0.11596	0.01462	1.13041
5.46150	-16.62258	2.70330	-0.23096	-1.10184	0.94118	-0.00215	5.41696	0.11580	0.01481	1.13313
5.58971	-16.74774	2.71102	-0.22518	-1.10175	0.94116	-0.00213	5.41191	0.11527	0.01513	1.13582
5.72082	-16.87211	2.71826	-0.21973	-1.10063	0.94062	-0.00211	5.38713	0.11518	0.01545	1.13884
5.85823	-17.00971	2.72405	-0.21378	-1.09782	0.93939	-0.00211	5.26443	0.11857	0.01564	1.14194
5.99520	-17.14877	2.73017	-0.20771	-1.09435	0.93788	-0.00210	5.12909	0.12233	0.01580	1.14517
6.13497	-17.28443	2.73719	-0.20193	-1.09083	0.93671	-0.00210	5.02401	0.12495	0.01597	1.14895
6.28141	-17.41621	2.74264	-0.19632	-1.08749	0.93611	-0.00210	4.90111	0.12891	0.01597	1.15328
6.42674	-17.54460	2.74655	-0.19051	-1.08424	0.93577	-0.00211	4.74315	0.13502	0.01575	1.15788
6.57895	-17.67743	2.75201	-0.18443	-1.08107	0.93586	-0.00211	4.60251	0.14061	0.01547	1.16326
6.73401	-17.80738	2.75889	-0.17866	-1.07827	0.93630	-0.00212	4.49899	0.14472	0.01518	1.16923
6.89180	-17.91863	2.76296	-0.17354	-1.07708	0.93718	-0.00212	4.40347	0.14959	0.01475	1.17570
7.05716	-18.02138	2.76524	-0.16820	-1.07749	0.93865	-0.00213	4.29967	0.15608	0.01406	1.18310
7.22022	-18.12396	2.76932	-0.16292	-1.07807	0.94025	-0.00213	4.21810	0.16151	0.01334	1.19070
7.39098	-18.23577	2.77601	-0.15754	-1.07832	0.94187	-0.00213	4.15640	0.16564	0.01264	1.19850
7.56430	-18.33471	2.78093	-0.15295	-1.07902	0.94333	-0.00213	4.10771	0.16934	0.01200	1.20589
7.73994	-18.40831	2.78110	-0.14890	-1.08157	0.94475	-0.00213	4.05281	0.17461	0.01119	1.21337
7.92393	-18.48981	2.78308	-0.14444	-1.08420	0.94615	-0.00213	4.00311	0.17960	0.01029	1.22104
8.11030	-18.58026	2.78741	-0.13981	-1.08628	0.94740	-0.00212	3.96218	0.18368	0.00942	1.22833
8.29876	-18.68525	2.79508	-0.13508	-1.08721	0.94847	-0.00211	3.93084	0.18647	0.00868	1.23489
8.49618	-18.76720	2.79822	-0.13139	-1.08911	0.94969	-0.00211	3.90377	0.18957	0.00802	1.24095
8.69565	-18.81960	2.79608	-0.12841	-1.09280	0.95104	-0.00210	3.87540	0.19379	0.00728	1.24720
8.90472	-18.88992	2.79738	-0.12476	-1.09591	0.95233	-0.00209	3.84873	0.19750	0.00651	1.25361
9.11577	-18.96825	2.80055	-0.12094	-1.09849	0.95354	-0.00209	3.82447	0.20069	0.00580	1.25980
9.32836	-19.07241	2.80883	-0.11641	-1.09964	0.95453	-0.00207	3.79863	0.20308	0.00516	1.26575
9.54198	-19.16658	2.81547	-0.11273	-1.10055	0.95551	-0.00206	3.77994	0.20491	0.00467	1.27120
9.76563	-19.20572	2.81178	-0.11094	-1.10409	0.95694	-0.00206	3.77263	0.20761	0.00420	1.27719
10.00000	-19.25036	2.80903	-0.10874	-1.10777	0.95837	-0.00205	3.76440	0.21038	0.00366	1.28417

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Low stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 6 - 15 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.47689	3.37161	-0.04654	-1.73150	1.06404	-0.00098	1.42299	0.43651	-0.01069	0.28998
PGV	18.23250	2.01319	0.05198	-5.71384	2.11695	0.00157	39.39205	0.18932	-0.05567	0.72473
PGA	0.84287	1.37178	-0.05968	-2.37810	0.92801	-0.00258	4.39505	0.44754	-0.02085	0.72689
0.01000	1.75324	1.39957	-0.05533	-2.56844	0.92047	-0.00230	5.29829	0.43355	-0.00589	0.73629
0.01024	1.79164	1.40150	-0.05477	-2.57661	0.91696	-0.00228	5.31974	0.43386	-0.00594	0.73759
0.01048	1.83360	1.40345	-0.05421	-2.58550	0.91378	-0.00226	5.34460	0.43409	-0.00600	0.73891
0.01072	1.87626	1.40543	-0.05363	-2.59455	0.91071	-0.00224	5.36872	0.43432	-0.00607	0.74030
0.01097	1.91751	1.40740	-0.05304	-2.60330	0.90738	-0.00222	5.38950	0.43463	-0.00615	0.74168
0.01123	1.95542	1.40929	-0.05244	-2.61132	0.90357	-0.00220	5.40481	0.43505	-0.00621	0.74294
0.01150	1.99054	1.41110	-0.05184	-2.61870	0.89938	-0.00218	5.41563	0.43557	-0.00625	0.74405
0.01177	2.02830	1.41293	-0.05123	-2.62651	0.89515	-0.00216	5.42968	0.43602	-0.00630	0.74517
0.01205	2.07175	1.41479	-0.05062	-2.63532	0.89100	-0.00214	5.45147	0.43633	-0.00636	0.74639
0.01233	2.12071	1.41671	-0.05004	-2.64515	0.88703	-0.00211	5.48084	0.43648	-0.00642	0.74762
0.01262	2.17654	1.41870	-0.04950	-2.65631	0.88356	-0.00209	5.51945	0.43644	-0.00648	0.74879
0.01292	2.23560	1.42069	-0.04898	-2.66810	0.88050	-0.00207	5.56190	0.43630	-0.00653	0.74988
0.01322	2.28753	1.42256	-0.04844	-2.67847	0.87724	-0.00205	5.59309	0.43636	-0.00656	0.75081
0.01353	2.32822	1.42429	-0.04789	-2.68665	0.87352	-0.00203	5.60694	0.43677	-0.00655	0.75150
0.01385	2.36111	1.42596	-0.04734	-2.69325	0.86927	-0.00201	5.60887	0.43743	-0.00650	0.75202
0.01417	2.38877	1.42757	-0.04675	-2.69875	0.86439	-0.00200	5.60354	0.43825	-0.00646	0.75260
0.01451	2.41877	1.42920	-0.04615	-2.70462	0.85928	-0.00198	5.60214	0.43900	-0.00644	0.75335
0.01485	2.45961	1.43090	-0.04558	-2.71245	0.85434	-0.00196	5.61707	0.43943	-0.00641	0.75410
0.01520	2.51138	1.43263	-0.04506	-2.72224	0.84945	-0.00194	5.64806	0.43954	-0.00633	0.75456
0.01556	2.56610	1.43434	-0.04459	-2.73249	0.84431	-0.00191	5.68271	0.43958	-0.00616	0.75452
0.01592	2.61381	1.43591	-0.04415	-2.74131	0.83888	-0.00189	5.70665	0.43982	-0.00596	0.75422
0.01630	2.65446	1.43735	-0.04371	-2.74866	0.83329	-0.00187	5.72003	0.44025	-0.00580	0.75423
0.01668	2.69588	1.43882	-0.04322	-2.75611	0.82760	-0.00185	5.73337	0.44071	-0.00573	0.75484
0.01707	2.73745	1.44047	-0.04267	-2.76366	0.82188	-0.00183	5.74504	0.44125	-0.00569	0.75576
0.01748	2.76506	1.44225	-0.04206	-2.76868	0.81612	-0.00182	5.73608	0.44222	-0.00561	0.75657
0.01789	2.76529	1.44397	-0.04138	-2.76853	0.80984	-0.00182	5.69060	0.44392	-0.00545	0.75702
0.01831	2.74711	1.44552	-0.04067	-2.76472	0.80286	-0.00182	5.62376	0.44605	-0.00523	0.75723
0.01874	2.73149	1.44686	-0.03997	-2.76111	0.79565	-0.00182	5.56450	0.44799	-0.00497	0.75728
0.01918	2.72861	1.44795	-0.03932	-2.75965	0.78873	-0.00181	5.52439	0.44949	-0.00466	0.75694
0.01963	2.74226	1.44893	-0.03875	-2.76117	0.78209	-0.00180	5.50546	0.45053	-0.00430	0.75620
0.02009	2.77454	1.45002	-0.03824	-2.76627	0.77510	-0.00179	5.50756	0.45116	-0.00393	0.75531
0.02057	2.81786	1.45125	-0.03777	-2.77349	0.76736	-0.00176	5.52079	0.45163	-0.00360	0.75455
0.02105	2.84750	1.45240	-0.03732	-2.77804	0.75909	-0.00174	5.51592	0.45247	-0.00326	0.75379
0.02154	2.83469	1.45312	-0.03686	-2.77428	0.75034	-0.00174	5.45954	0.45432	-0.00287	0.75264
0.02205	2.76867	1.45322	-0.03637	-2.76000	0.74069	-0.00175	5.34098	0.45743	-0.00240	0.75105
0.02257	2.66795	1.45299	-0.03583	-2.73882	0.73023	-0.00177	5.18457	0.46140	-0.00188	0.74904
0.02310	2.57259	1.45293	-0.03528	-2.71867	0.72014	-0.00179	5.03950	0.46525	-0.00128	0.74656
0.02364	2.52052	1.45340	-0.03472	-2.70702	0.71168	-0.00181	4.95046	0.46792	-0.00069	0.74404
0.02420	2.51616	1.45431	-0.03418	-2.70475	0.70527	-0.00181	4.91976	0.46924	-0.00018	0.74200
0.02477	2.53222	1.45534	-0.03366	-2.70654	0.70031	-0.00180	4.91166	0.47000	0.00025	0.74049
0.02535	2.54336	1.45624	-0.03325	-2.70730	0.69563	-0.00180	4.89542	0.47093	0.00060	0.73962
0.02595	2.54151	1.45702	-0.03296	-2.70531	0.69035	-0.00180	4.86351	0.47227	0.00085	0.73949
0.02656	2.53474	1.45776	-0.03276	-2.70204	0.68461	-0.00181	4.82909	0.47370	0.00103	0.73995
0.02719	2.53647	1.45855	-0.03267	-2.70009	0.67940	-0.00182	4.81078	0.47476	0.00120	0.74053
0.02783	2.54728	1.45942	-0.03268	-2.69966	0.67502	-0.00183	4.80846	0.47541	0.00146	0.74049
0.02848	2.55071	1.46023	-0.03266	-2.69774	0.67049	-0.00184	4.79877	0.47624	0.00190	0.73928
0.02915	2.52854	1.46080	-0.03247	-2.69093	0.66449	-0.00185	4.75648	0.47788	0.00248	0.73715
0.02984	2.47100	1.46096	-0.03203	-2.67723	0.65603	-0.00187	4.66994	0.48064	0.00309	0.73488
0.03054	2.36989	1.46047	-0.03128	-2.65490	0.64460	-0.00190	4.53240	0.48475	0.00370	0.73279
0.03126	2.22011	1.45922	-0.03026	-2.62282	0.63050	-0.00194	4.34225	0.49036	0.00432	0.73076
0.03199	2.03843	1.45748	-0.02910	-2.58430	0.61522	-0.00198	4.12264	0.49701	0.00491	0.72893
0.03275	1.86198	1.45594	-0.02803	-2.54706	0.60120	-0.00203	3.91562	0.50358	0.00546	0.72737
0.03352	1.71853	1.45507	-0.02719	-2.51704	0.59051	-0.00206	3.74902	0.50911	0.00602	0.72566
0.03430	1.62012	1.45478	-0.02658	-2.49653	0.58442	-0.00209	3.63412	0.51302	0.00658	0.72394
0.03511	1.57358	1.45480	-0.02615	-2.48625	0.58326	-0.00212	3.57838	0.51489	0.00699	0.72308
0.03594	1.56404	1.45476	-0.02584	-2.48272	0.58535	-0.00214	3.56571	0.51524	0.00720	0.72354
0.03678	1.55320	1.45428	-0.02552	-2.47839	0.58802	-0.00217	3.55411	0.51549	0.00729	0.72481
0.03765	1.51837	1.45343	-0.02513	-2.46915	0.59037	-0.00220	3.51847	0.51652	0.00738	0.72605
0.03854	1.46560	1.45267	-0.02475	-2.45656	0.59304	-0.00224	3.46455	0.51820	0.00757	0.72663
0.03944	1.40449	1.45208	-0.02449	-2.44247	0.59572	-0.00229	3.40218	0.52025	0.00786	0.72656
0.04037	1.33632	1.45131	-0.02444	-2.42662	0.59687	-0.00234	3.33345	0.52262	0.00818	0.72631
0.04132	1.26699	1.45000	-0.02459	-2.40965	0.59566	-0.00238	3.26621	0.52503	0.00846	0.72626
0.04229	1.21208	1.44836	-0.02497	-2.39460	0.59259	-0.00242	3.21707	0.52688	0.00870	0.72626
0.04329	1.17976	1.44697	-0.02546	-2.38367	0.58872	-0.00244	3.19322	0.52793	0.00896	0.72600
0.04431	1.16005	1.44615	-0.02589	-2.37547	0.58470	-0.00247	3.18265	0.52861	0.00921	0.72553
0.04535	1.13361	1.44596	-0.02616	-2.36671	0.58056	-0.00249	3.16306	0.52974	0.00945	0.72473

0.04642	1.08068	1.44631	-0.02628	-2.35404	0.57625	-0.00252	3.11174	0.53212	0.00983	0.72276
0.04751	0.98029	1.44677	-0.02623	-2.33346	0.57177	-0.00255	3.00789	0.53652	0.01048	0.71869
0.04863	0.82234	1.44666	-0.02591	-2.30236	0.56686	-0.00261	2.84675	0.54328	0.01135	0.71279
0.04977	0.62395	1.44543	-0.02527	-2.26300	0.56140	-0.00267	2.65318	0.55170	0.01222	0.70667
0.05094	0.41661	1.44300	-0.02443	-2.22074	0.55594	-0.00274	2.46228	0.56045	0.01294	0.70144
0.05214	0.23014	1.43986	-0.02355	-2.18147	0.55212	-0.00281	2.30171	0.56819	0.01347	0.69750
0.05337	0.07779	1.43653	-0.02268	-2.14827	0.55091	-0.00287	2.18039	0.57419	0.01375	0.69538
0.05462	-0.03691	1.43322	-0.02188	-2.12214	0.55215	-0.00293	2.09777	0.57819	0.01376	0.69527
0.05591	-0.11377	1.42980	-0.02129	-2.10305	0.55537	-0.00297	2.05066	0.58014	0.01354	0.69693
0.05722	-0.15571	1.42603	-0.02104	-2.09017	0.56070	-0.00301	2.03422	0.58017	0.01303	0.70081
0.05857	-0.17209	1.42191	-0.02113	-2.08167	0.56831	-0.00304	2.03925	0.57883	0.01211	0.70755
0.05995	-0.17540	1.41801	-0.02150	-2.07579	0.57758	-0.00308	2.05407	0.57694	0.01092	0.71618
0.06136	-0.17514	1.41530	-0.02205	-2.07184	0.58779	-0.00311	2.06953	0.57516	0.00985	0.72403
0.06280	-0.17823	1.41409	-0.02267	-2.06905	0.59816	-0.00313	2.07899	0.57393	0.00916	0.72929
0.06428	-0.19110	1.41369	-0.02325	-2.06561	0.60823	-0.00316	2.07714	0.57341	0.00880	0.73234
0.06579	-0.21948	1.41329	-0.02373	-2.05955	0.61842	-0.00320	2.06072	0.57367	0.00860	0.73413
0.06734	-0.26790	1.41247	-0.02414	-2.04938	0.62861	-0.00325	2.02755	0.57485	0.00850	0.73523
0.06893	-0.33634	1.41094	-0.02461	-2.03463	0.63758	-0.00330	1.97828	0.57698	0.00839	0.73623
0.07055	-0.42156	1.40861	-0.02526	-2.01578	0.64409	-0.00335	1.91565	0.58000	0.00822	0.73752
0.07221	-0.52026	1.40563	-0.02615	-1.99370	0.64751	-0.00340	1.84223	0.58384	0.00803	0.73874
0.07391	-0.62914	1.40192	-0.02727	-1.96913	0.64749	-0.00344	1.76090	0.58836	0.00792	0.73934
0.07565	-0.74417	1.39722	-0.02857	-1.94275	0.64394	-0.00347	1.67556	0.59326	0.00796	0.73891
0.07743	-0.85832	1.39154	-0.03000	-1.91606	0.63797	-0.00349	1.59288	0.59801	0.00824	0.73695
0.07925	-0.96148	1.38526	-0.03154	-1.89129	0.63250	-0.00350	1.52195	0.60184	0.00879	0.73325
0.08111	-1.04189	1.37886	-0.03327	-1.87097	0.63084	-0.00351	1.47224	0.60389	0.00956	0.72829
0.08302	-1.09075	1.37260	-0.03522	-1.85678	0.63423	-0.00352	1.44994	0.60357	0.01034	0.72345
0.08498	-1.10703	1.36651	-0.03736	-1.84878	0.64172	-0.00353	1.45496	0.60089	0.01092	0.72011
0.08697	-1.09689	1.36066	-0.03960	-1.84582	0.65158	-0.00354	1.48178	0.59645	0.01122	0.71894
0.08902	-1.07105	1.35505	-0.04181	-1.84594	0.66193	-0.00354	1.52130	0.59114	0.01120	0.72022
0.09112	-1.04190	1.34970	-0.04385	-1.84689	0.67121	-0.00354	1.56336	0.58587	0.01093	0.72354
0.09326	-1.02002	1.34473	-0.04565	-1.84674	0.67866	-0.00353	1.59960	0.58132	0.01055	0.72783
0.09545	-1.01066	1.34020	-0.04723	-1.84445	0.68412	-0.00352	1.62574	0.57780	0.01014	0.73261
0.09770	-1.01427	1.33623	-0.04870	-1.84005	0.68767	-0.00351	1.64079	0.57535	0.00976	0.73739
0.10000	-1.03089	1.33321	-0.04997	-1.83403	0.68952	-0.00350	1.64369	0.57407	0.00952	0.74106
0.10235	-1.05777	1.33121	-0.05108	-1.82707	0.69023	-0.00349	1.63665	0.57375	0.00959	0.74237
0.10476	-1.09460	1.32965	-0.05207	-1.81859	0.69052	-0.00349	1.62031	0.57424	0.00982	0.74216
0.10723	-1.14422	1.32784	-0.05296	-1.80727	0.69112	-0.00349	1.59266	0.57557	0.00996	0.74209
0.10975	-1.21140	1.32532	-0.05383	-1.79163	0.69241	-0.00351	1.55046	0.57797	0.00993	0.74286
0.11233	-1.29667	1.32206	-0.05476	-1.77149	0.69471	-0.00355	1.49388	0.58150	0.00981	0.74422
0.11498	-1.39132	1.31833	-0.05586	-1.74880	0.69823	-0.00360	1.43038	0.58571	0.00965	0.74600
0.11768	-1.48784	1.31442	-0.05714	-1.72533	0.70278	-0.00365	1.36616	0.59022	0.00953	0.74796
0.12045	-1.57630	1.31067	-0.05864	-1.70333	0.70913	-0.00370	1.30934	0.59435	0.00943	0.75008
0.12328	-1.65047	1.30735	-0.06038	-1.68432	0.71756	-0.00375	1.26467	0.59760	0.00936	0.75231
0.12619	-1.71005	1.30468	-0.06227	-1.66874	0.72743	-0.00380	1.23161	0.59996	0.00938	0.75420
0.12916	-1.74945	1.30303	-0.06415	-1.65825	0.73854	-0.00384	1.21411	0.60098	0.00949	0.75546
0.13219	-1.77098	1.30257	-0.06590	-1.65271	0.75023	-0.00386	1.21026	0.60080	0.00978	0.75551
0.13531	-1.78295	1.30332	-0.06749	-1.65057	0.76129	-0.00387	1.21381	0.60009	0.01039	0.75342
0.13849	-1.78950	1.30540	-0.06892	-1.65120	0.77095	-0.00387	1.22118	0.59921	0.01132	0.74907
0.14175	-1.79217	1.30839	-0.07018	-1.65391	0.77900	-0.00385	1.23100	0.59825	0.01235	0.74394
0.14508	-1.80533	1.31143	-0.07116	-1.65488	0.78466	-0.00383	1.23208	0.59819	0.01323	0.73962
0.14850	-1.82861	1.31434	-0.07201	-1.65384	0.78820	-0.00381	1.22534	0.59891	0.01399	0.73588
0.15199	-1.85657	1.31668	-0.07280	-1.65123	0.79084	-0.00378	1.21587	0.59981	0.01456	0.73333
0.15557	-1.88604	1.31824	-0.07369	-1.64749	0.79183	-0.00375	1.20589	0.60064	0.01496	0.73193
0.15923	-1.91062	1.31911	-0.07473	-1.64400	0.79205	-0.00372	1.20042	0.60087	0.01519	0.73182
0.16298	-1.93078	1.31931	-0.07589	-1.64069	0.79242	-0.00369	1.19996	0.60040	0.01527	0.73315
0.16681	-1.94543	1.31926	-0.07715	-1.63825	0.79315	-0.00366	1.20511	0.59924	0.01528	0.73535
0.17074	-1.96759	1.31886	-0.07852	-1.63397	0.79348	-0.00363	1.20619	0.59839	0.01527	0.73817
0.17475	-1.99239	1.31866	-0.08011	-1.62936	0.79286	-0.00360	1.20614	0.59768	0.01527	0.74127
0.17887	-2.01906	1.31887	-0.08180	-1.62466	0.79233	-0.00357	1.20591	0.59705	0.01512	0.74540
0.18307	-2.03835	1.31973	-0.08365	-1.62224	0.79187	-0.00355	1.21082	0.59597	0.01498	0.74933
0.18738	-2.07001	1.31965	-0.08533	-1.61675	0.79088	-0.00353	1.20560	0.59563	0.01452	0.75494
0.19179	-2.09331	1.32003	-0.08702	-1.61363	0.79191	-0.00352	1.20733	0.59452	0.01410	0.75976
0.19631	-2.10401	1.32110	-0.08899	-1.61383	0.79572	-0.00351	1.21984	0.59229	0.01398	0.76210
0.20092	-2.11019	1.32114	-0.09116	-1.61424	0.79824	-0.00350	1.23491	0.58952	0.01373	0.76485
0.20565	-2.11629	1.32081	-0.09342	-1.61472	0.80149	-0.00350	1.24992	0.58653	0.01339	0.76780
0.21049	-2.12848	1.31992	-0.09575	-1.61414	0.80304	-0.00349	1.25894	0.58386	0.01300	0.77088
0.21544	-2.13861	1.31969	-0.09825	-1.61513	0.80519	-0.00348	1.26990	0.58098	0.01302	0.77109
0.22051	-2.13669	1.31990	-0.10114	-1.61957	0.80682	-0.00345	1.28999	0.57718	0.01334	0.76939
0.22570	-2.12030	1.31994	-0.10405	-1.62725	0.80859	-0.00341	1.32365	0.57195	0.01350	0.76852
0.23101	-2.10687	1.31814	-0.10705	-1.63290	0.81028	-0.00338	1.35752	0.56624	0.01318	0.77075
0.23645	-2.08696	1.31609	-0.11059	-1.63977	0.81151	-0.00333	1.39993	0.55971	0.01281	0.77323
0.24201	-2.06156	1.31439	-0.11460	-1.64840	0.81095	-0.00328	1.45080	0.55258	0.01278	0.77342
0.24771	-2.02660	1.31298	-0.11887	-1.65952	0.80972	-0.00322	1.51596	0.54440	0.01296	0.77215
0.25354	-1.98173	1.31115	-0.12323	-1.67258	0.80661	-0.00314	1.59537	0.53520	0.01279	0.77328
0.25950	-1.93250	1.30923	-0.12764	-1.68651	0.80680	-0.00306	1.68654	0.52533	0.01231	0.77657
0.26561	-1.87728	1.30856	-0.13209	-1.70316	0.80984	-0.00300	1.78964	0.51520	0.01183	0.78017
0.27186	-1.84139	1.30732	-0.13634	-1.71591	0.81017	-0.00293	1.87663	0.50633	0.01101	0.78618
0.27826	-1.82507	1.30609	-0.14034	-1.72502	0.81199	-0.00287	1.94743	0.49859	0.01013	0.79280
0.28480	-1.81012	1.30671	-0.14435	-1.73608	0.81454	-0.00282	2.01784	0.49139	0.00930	0.79905
0.29150	-1.81852	1.30758	-0.14808	-1.74282	0.81652	-0.00278	2.06632	0.48561	0.00841	0.80562
0.29836	-1.85787	1.30816	-0.15133	-1.74338	0.81718	-0.00275	2.08278	0.48152	0.00750	0.81199

0.30539	-1.91379	1.30891	-0.15455	-1.74120	0.81818	-0.00273	2.08029	0.47841	0.00690	0.81642
0.31257	-1.98383	1.30925	-0.15768	-1.73604	0.81885	-0.00271	2.06309	0.47593	0.00612	0.82171
0.31993	-2.05339	1.31070	-0.16073	-1.73214	0.82418	-0.00271	2.04847	0.47342	0.00563	0.82482
0.32745	-2.13428	1.31092	-0.16395	-1.72486	0.82627	-0.00271	2.02150	0.47131	0.00491	0.82930
0.33517	-2.21455	1.31240	-0.16720	-1.71892	0.83288	-0.00273	1.99779	0.46922	0.00438	0.83235
0.34304	-2.29561	1.31448	-0.17049	-1.71359	0.84020	-0.00275	1.97460	0.46718	0.00412	0.83334
0.35112	-2.39517	1.31548	-0.17382	-1.70364	0.84450	-0.00276	1.93396	0.46580	0.00361	0.83584
0.35938	-2.51014	1.31573	-0.17705	-1.68963	0.84728	-0.00279	1.88087	0.46502	0.00314	0.83801
0.36784	-2.62098	1.31717	-0.18035	-1.67779	0.84959	-0.00280	1.83556	0.46406	0.00312	0.83697
0.37649	-2.73165	1.31891	-0.18373	-1.66665	0.84954	-0.00281	1.79278	0.46293	0.00348	0.83331
0.38536	-2.84232	1.32091	-0.18724	-1.65588	0.85039	-0.00281	1.75278	0.46166	0.00398	0.82889
0.39442	-2.96450	1.32270	-0.19046	-1.64256	0.85111	-0.00282	1.70556	0.46075	0.00469	0.82301
0.40370	-3.08120	1.32501	-0.19390	-1.63087	0.85095	-0.00282	1.66841	0.45928	0.00558	0.81601
0.41321	-3.19083	1.32770	-0.19748	-1.62109	0.85002	-0.00282	1.64217	0.45716	0.00681	0.80671
0.42292	-3.29671	1.33040	-0.20113	-1.61211	0.84744	-0.00280	1.62375	0.45449	0.00827	0.79579
0.43288	-3.40153	1.33291	-0.20486	-1.60303	0.84375	-0.00278	1.61212	0.45118	0.00971	0.78488
0.44307	-3.50263	1.33550	-0.20866	-1.59466	0.83992	-0.00275	1.60918	0.44723	0.01121	0.77349
0.45349	-3.59386	1.33820	-0.21259	-1.58824	0.83792	-0.00273	1.62084	0.44231	0.01284	0.76134
0.46417	-3.67657	1.34065	-0.21656	-1.58325	0.83627	-0.00271	1.64628	0.43636	0.01425	0.75065
0.47508	-3.75259	1.34315	-0.22055	-1.57947	0.83558	-0.00268	1.68513	0.42950	0.01549	0.74112
0.48626	-3.82185	1.34546	-0.22461	-1.57683	0.83462	-0.00265	1.73649	0.42186	0.01647	0.73329
0.49771	-3.88257	1.34771	-0.22880	-1.57575	0.83576	-0.00262	1.80169	0.41353	0.01742	0.72581
0.50942	-3.94011	1.34992	-0.23307	-1.57510	0.83796	-0.00260	1.87583	0.40487	0.01828	0.71906
0.52140	-3.99822	1.35233	-0.23731	-1.57434	0.84045	-0.00258	1.95603	0.39608	0.01905	0.71281
0.53367	-4.05593	1.35488	-0.24157	-1.57363	0.84307	-0.00255	2.04282	0.38720	0.01977	0.70692
0.54624	-4.11263	1.35735	-0.24588	-1.57292	0.84599	-0.00253	2.13463	0.37837	0.02049	0.70108
0.55910	-4.16951	1.35984	-0.25022	-1.57208	0.84914	-0.00252	2.22963	0.36972	0.02124	0.69518
0.57225	-4.22880	1.36273	-0.25445	-1.57103	0.85241	-0.00250	2.32657	0.36133	0.02201	0.68911
0.58569	-4.29088	1.36618	-0.25852	-1.56984	0.85579	-0.00248	2.42509	0.35322	0.02281	0.68292
0.59948	-4.35598	1.36989	-0.26252	-1.56824	0.85906	-0.00247	2.52282	0.34546	0.02360	0.67687
0.61357	-4.42220	1.37357	-0.26648	-1.56632	0.86223	-0.00246	2.61889	0.33809	0.02437	0.67129
0.62802	-4.49031	1.37736	-0.27038	-1.56412	0.86527	-0.00244	2.71358	0.33106	0.02508	0.66633
0.64280	-4.56187	1.38162	-0.27413	-1.56160	0.86807	-0.00243	2.80631	0.32437	0.02572	0.66201
0.65794	-4.63737	1.38647	-0.27771	-1.55880	0.87064	-0.00242	2.89742	0.31798	0.02630	0.65833
0.67340	-4.71464	1.39164	-0.28120	-1.55586	0.87310	-0.00241	2.98713	0.31189	0.02682	0.65538
0.68927	-4.79156	1.39679	-0.28470	-1.55300	0.87567	-0.00240	3.07711	0.30603	0.02728	0.65324
0.70547	-4.86689	1.40187	-0.28820	-1.55038	0.87844	-0.00239	3.16793	0.30037	0.02769	0.65176
0.72207	-4.94239	1.40723	-0.29163	-1.54800	0.88137	-0.00238	3.26069	0.29488	0.02805	0.65061
0.73910	-5.01968	1.41317	-0.29494	-1.54579	0.88434	-0.00237	3.35535	0.28955	0.02838	0.64939
0.75649	-5.09868	1.41966	-0.29810	-1.54372	0.88729	-0.00236	3.45125	0.28438	0.02869	0.64777
0.77429	-5.17851	1.42642	-0.30120	-1.54171	0.89021	-0.00235	3.54773	0.27940	0.02899	0.64543
0.79246	-5.25760	1.43307	-0.30430	-1.53975	0.89314	-0.00234	3.64329	0.27465	0.02930	0.64213
0.81116	-5.33673	1.43961	-0.30745	-1.53774	0.89609	-0.00233	3.73785	0.27009	0.02962	0.63800
0.83022	-5.41659	1.44619	-0.31056	-1.53562	0.89891	-0.00232	3.82941	0.26578	0.02992	0.63337
0.84976	-5.49971	1.45318	-0.31358	-1.53324	0.90148	-0.00231	3.91782	0.26170	0.03020	0.62851
0.86972	-5.58713	1.46073	-0.31645	-1.53048	0.90364	-0.00231	4.00171	0.25784	0.03045	0.62381
0.89023	-5.67921	1.46878	-0.31919	-1.52726	0.90538	-0.00230	4.08117	0.25419	0.03066	0.61971
0.91116	-5.77382	1.47697	-0.32187	-1.52365	0.90672	-0.00229	4.15507	0.25077	0.03084	0.61670
0.93257	-5.86972	1.48506	-0.32453	-1.51971	0.90777	-0.00228	4.22357	0.24757	0.03098	0.61483
0.95456	-5.96652	1.49297	-0.32723	-1.51550	0.90863	-0.00228	4.28711	0.24458	0.03111	0.61405
0.97704	-6.06459	1.50083	-0.32990	-1.51102	0.90927	-0.00227	4.34522	0.24179	0.03120	0.61428
1.00000	-6.16515	1.50891	-0.33247	-1.50628	0.90963	-0.00226	4.39824	0.23920	0.03127	0.61543
1.02354	-6.26970	1.51750	-0.33489	-1.50124	0.90968	-0.00226	4.44691	0.23676	0.03129	0.61738
1.04767	-6.37860	1.52666	-0.33713	-1.49591	0.90936	-0.00225	4.49152	0.23446	0.03128	0.62000
1.07227	-6.49072	1.53625	-0.33920	-1.49032	0.90870	-0.00224	4.53185	0.23230	0.03124	0.62316
1.09745	-6.60479	1.54608	-0.34117	-1.48460	0.90784	-0.00224	4.56904	0.23026	0.03118	0.62678
1.12334	-6.72057	1.55593	-0.34309	-1.47865	0.90675	-0.00223	4.60168	0.22837	0.03111	0.63079
1.14982	-6.83576	1.56561	-0.34500	-1.47273	0.90565	-0.00223	4.63142	0.22661	0.03103	0.63510
1.17675	-6.94983	1.57507	-0.34687	-1.46687	0.90456	-0.00222	4.65769	0.22501	0.03095	0.63958
1.20453	-7.06508	1.58460	-0.34871	-1.46100	0.90345	-0.00221	4.68109	0.22353	0.03085	0.64416
1.23289	-7.18138	1.59430	-0.35043	-1.45513	0.90229	-0.00221	4.70146	0.22218	0.03074	0.64864
1.26183	-7.29945	1.60436	-0.35200	-1.44929	0.90107	-0.00220	4.71952	0.22093	0.03060	0.65299
1.29149	-7.42073	1.61492	-0.35340	-1.44335	0.89967	-0.00220	4.73478	0.21978	0.03042	0.65733
1.32188	-7.54495	1.62597	-0.35462	-1.43733	0.89815	-0.00219	4.74781	0.21870	0.03021	0.66173
1.35300	-7.67148	1.63740	-0.35569	-1.43127	0.89653	-0.00219	4.75870	0.21770	0.02996	0.66631
1.38485	-7.79941	1.64903	-0.35664	-1.42519	0.89486	-0.00218	4.76725	0.21678	0.02967	0.67121
1.41743	-7.92774	1.66067	-0.35751	-1.41911	0.89320	-0.00218	4.77336	0.21595	0.02937	0.67655
1.45075	-8.05567	1.67217	-0.35834	-1.41307	0.89162	-0.00217	4.77684	0.21522	0.02904	0.68240
1.48500	-8.18364	1.68355	-0.35914	-1.40706	0.89011	-0.00217	4.77751	0.21458	0.02869	0.68878
1.51999	-8.31085	1.69474	-0.35989	-1.40111	0.88871	-0.00216	4.77542	0.21406	0.02832	0.69564
1.55569	-8.43772	1.70584	-0.36057	-1.39523	0.88738	-0.00216	4.77062	0.21363	0.02793	0.70295
1.59236	-8.56572	1.71705	-0.36115	-1.38935	0.88609	-0.00216	4.76317	0.21330	0.02751	0.71074
1.62973	-8.69461	1.72841	-0.36160	-1.38350	0.88480	-0.00215	4.75334	0.21305	0.02707	0.71893
1.66806	-8.82573	1.74010	-0.36189	-1.37762	0.88348	-0.00215	4.74139	0.21288	0.02659	0.72752
1.70736	-8.95932	1.75218	-0.36200	-1.37170	0.88210	-0.00215	4.72760	0.21275	0.02607	0.73651
1.74764	-9.09531	1.76465	-0.36194	-1.36577	0.88068	-0.00214	4.71226	0.21268	0.02553	0.74588
1.78859	-9.23232	1.77737	-0.36170	-1.35987	0.87924	-0.00214	4.69570	0.21265	0.02497	0.75553
1.83083	-9.37192	1.79044	-0.36132	-1.35395	0.87778	-0.00213	4.67785	0.21266	0.02438	0.76559
1.87371	-9.51132	1.80355	-0.36080	-1.34811	0.87637	-0.00213	4.65907	0.21271	0.02379	0.77586
1.91791	-9.65212	1.81681	-0.36018	-1.34231	0.87500	-0.00213	4.63909	0.21281	0.02319	0.78644
1.96309	-9.79260	1.83002	-0.35947	-1.33659	0.87374	-0.00212	4.61811	0.21295	0.02259	0.79711

2.00924	-9.93231	1.84309	-0.35869	-1.33100	0.87261	-0.00212	4.59615	0.21315	0.02201	0.80773
2.05634	-10.07094	1.85598	-0.35784	-1.32555	0.87161	-0.00212	4.57326	0.21340	0.02144	0.81814
2.10482	-10.20964	1.86880	-0.35692	-1.32019	0.87075	-0.00212	4.54931	0.21371	0.02089	0.82828
2.15424	-10.34717	1.88146	-0.35592	-1.31498	0.87004	-0.00211	4.52467	0.21406	0.02035	0.83784
2.20507	-10.48502	1.89411	-0.35483	-1.30987	0.86945	-0.00211	4.49919	0.21447	0.01983	0.84681
2.25683	-10.62211	1.90669	-0.35365	-1.30490	0.86897	-0.00211	4.47332	0.21491	0.01932	0.85514
2.31000	-10.75998	1.91938	-0.35233	-1.30004	0.86859	-0.00211	4.44702	0.21539	0.01883	0.86302
2.36463	-10.89891	1.93222	-0.35087	-1.29525	0.86829	-0.00210	4.42040	0.21589	0.01833	0.87055
2.42014	-11.03766	1.94514	-0.34929	-1.29058	0.86804	-0.00210	4.39390	0.21641	0.01784	0.87779
2.47709	-11.17769	1.95828	-0.34753	-1.28601	0.86785	-0.00210	4.36748	0.21694	0.01735	0.88496
2.53550	-11.31902	1.97165	-0.34563	-1.28150	0.86770	-0.00210	4.34119	0.21748	0.01685	0.89222
2.59471	-11.46006	1.98510	-0.34359	-1.27711	0.86758	-0.00209	4.31532	0.21802	0.01635	0.89964
2.65604	-11.60373	1.99890	-0.34136	-1.27277	0.86752	-0.00209	4.28960	0.21856	0.01584	0.90744
2.71887	-11.74829	2.01287	-0.33899	-1.26849	0.86748	-0.00209	4.26414	0.21909	0.01534	0.91557
2.78242	-11.89188	2.02683	-0.33652	-1.26434	0.86749	-0.00209	4.23931	0.21962	0.01483	0.92400
2.84819	-12.03737	2.04100	-0.33387	-1.26028	0.86757	-0.00208	4.21475	0.22016	0.01432	0.93302
2.91545	-12.18306	2.05524	-0.33114	-1.25625	0.86768	-0.00208	4.19038	0.22068	0.01382	0.94253
2.98329	-12.32649	2.06925	-0.32831	-1.25248	0.86792	-0.00208	4.16709	0.22121	0.01333	0.95233
3.05344	-12.47122	2.08339	-0.32539	-1.24868	0.86819	-0.00207	4.14368	0.22172	0.01285	0.96240
3.12598	-12.61702	2.09762	-0.32231	-1.24506	0.86860	-0.00207	4.12076	0.22226	0.01238	0.97259
3.19898	-12.75969	2.11150	-0.31924	-1.24154	0.86906	-0.00207	4.09845	0.22277	0.01194	0.98229
3.27439	-12.90320	2.12543	-0.31602	-1.23820	0.86967	-0.00206	4.07657	0.22330	0.01151	0.99153
3.35121	-13.04502	2.13914	-0.31280	-1.23494	0.87035	-0.00206	4.05508	0.22382	0.01111	1.00000
3.43053	-13.18758	2.15289	-0.30942	-1.23187	0.87117	-0.00206	4.03402	0.22437	0.01072	1.00809
3.51124	-13.32821	2.16637	-0.30606	-1.22883	0.87203	-0.00205	4.01326	0.22490	0.01035	1.01588
3.59324	-13.46720	2.17968	-0.30255	-1.22614	0.87307	-0.00205	3.99360	0.22545	0.00999	1.02378
3.67782	-13.60658	2.19298	-0.29909	-1.22327	0.87407	-0.00204	3.97346	0.22597	0.00964	1.03214
3.76506	-13.74593	2.20620	-0.29533	-1.22092	0.87537	-0.00204	3.95493	0.22656	0.00928	1.04153
3.85356	-13.88432	2.21940	-0.29177	-1.21821	0.87648	-0.00204	3.93540	0.22707	0.00894	1.05147
3.94477	-14.02169	2.23234	-0.28785	-1.21619	0.87795	-0.00203	3.91832	0.22765	0.00859	1.06223
4.03714	-14.15894	2.24545	-0.28410	-1.21380	0.87923	-0.00203	3.90003	0.22817	0.00827	1.07306
4.13223	-14.29484	2.25823	-0.28018	-1.21177	0.88069	-0.00202	3.88341	0.22871	0.00795	1.08403
4.23012	-14.43207	2.27125	-0.27601	-1.21005	0.88231	-0.00202	3.86759	0.22930	0.00762	1.09484
4.32900	-14.56780	2.28418	-0.27219	-1.20774	0.88360	-0.00202	3.85041	0.22975	0.00734	1.10466
4.43066	-14.70148	2.29670	-0.26779	-1.20657	0.88543	-0.00201	3.83720	0.23035	0.00703	1.11414
4.53515	-14.83857	2.30986	-0.26361	-1.20472	0.88695	-0.00201	3.82164	0.23085	0.00676	1.12278
4.64253	-14.97397	2.32267	-0.25946	-1.20290	0.88845	-0.00200	3.80692	0.23131	0.00650	1.13079
4.75059	-15.10584	2.33508	-0.25474	-1.20227	0.89047	-0.00199	3.79617	0.23192	0.00621	1.13838
4.86145	-15.24167	2.34825	-0.25056	-1.20038	0.89188	-0.00199	3.78144	0.23234	0.00598	1.14507
4.97760	-15.37655	2.36096	-0.24612	-1.19902	0.89355	-0.00198	3.76912	0.23279	0.00574	1.15156
5.09424	-15.50821	2.37337	-0.24106	-1.19887	0.89574	-0.00198	3.76061	0.23342	0.00545	1.15781
5.21376	-15.64463	2.38670	-0.23674	-1.19710	0.89715	-0.00197	3.74715	0.23377	0.00524	1.16324
5.33618	-15.77617	2.39911	-0.23234	-1.19582	0.89874	-0.00196	3.73624	0.23415	0.00502	1.16851
5.46150	-15.90527	2.41114	-0.22696	-1.19632	0.90116	-0.00196	3.73068	0.23481	0.00473	1.17411
5.58971	-16.04047	2.42436	-0.22229	-1.19515	0.90278	-0.00195	3.72000	0.23518	0.00452	1.17914
5.72082	-16.17314	2.43710	-0.21817	-1.19325	0.90401	-0.00194	3.70820	0.23537	0.00434	1.18401
5.85823	-16.30095	2.44873	-0.21257	-1.19421	0.90659	-0.00194	3.70492	0.23604	0.00405	1.18995
5.99520	-16.43125	2.46123	-0.20725	-1.19441	0.90878	-0.00193	3.69928	0.23657	0.00379	1.19567
6.13497	-16.56576	2.47451	-0.20317	-1.19230	0.90984	-0.00192	3.68774	0.23665	0.00364	1.20084
6.28141	-16.69298	2.48617	-0.19846	-1.19185	0.91165	-0.00191	3.68166	0.23697	0.00343	1.20676
6.42674	-16.81309	2.49699	-0.19253	-1.19377	0.91451	-0.00191	3.68176	0.23775	0.00312	1.21333
6.57895	-16.94461	2.50972	-0.18727	-1.19377	0.91653	-0.00190	3.67676	0.23814	0.00289	1.21962
6.73401	-17.07927	2.52301	-0.18346	-1.19127	0.91734	-0.00189	3.66634	0.23798	0.00278	1.22528
6.89180	-17.19858	2.53356	-0.17870	-1.19151	0.91932	-0.00188	3.66357	0.23833	0.00256	1.23181
7.05716	-17.31745	2.54394	-0.17225	-1.19439	0.92260	-0.00188	3.66666	0.23924	0.00222	1.23930
7.22022	-17.44142	2.55570	-0.16692	-1.19504	0.92479	-0.00187	3.66476	0.23965	0.00200	1.24582
7.39098	-17.57572	2.56901	-0.16307	-1.19265	0.92558	-0.00186	3.65710	0.23933	0.00191	1.25142
7.56430	-17.69624	2.57983	-0.15927	-1.19136	0.92675	-0.00185	3.65300	0.23919	0.00179	1.25702
7.73994	-17.80127	2.58815	-0.15291	-1.19514	0.93025	-0.00184	3.65814	0.24028	0.00143	1.26370
7.92393	-17.91919	2.59865	-0.14682	-1.19747	0.93319	-0.00184	3.66082	0.24099	0.00114	1.26962
8.11030	-18.04457	2.61060	-0.14189	-1.19744	0.93500	-0.00183	3.65975	0.24109	0.00097	1.27436
8.29876	-18.17564	2.62353	-0.13903	-1.19386	0.93507	-0.00182	3.65520	0.24012	0.00098	1.27760
8.49618	-18.28680	2.63261	-0.13489	-1.19398	0.93674	-0.00181	3.65599	0.24017	0.00082	1.28181
8.69565	-18.38373	2.63957	-0.12795	-1.19930	0.94086	-0.00180	3.66214	0.24173	0.00040	1.28737
8.90472	-18.49804	2.64945	-0.12190	-1.20188	0.94383	-0.00180	3.66632	0.24241	0.00012	1.29203
9.11577	-18.61699	2.66030	-0.11670	-1.20281	0.94599	-0.00179	3.66911	0.24259	-0.00007	1.29608
9.32836	-18.74912	2.67346	-0.11379	-1.19927	0.94599	-0.00178	3.67054	0.24126	-0.00004	1.29873
9.54198	-18.86362	2.68352	-0.11154	-1.19629	0.94603	-0.00177	3.67571	0.23992	-0.00001	1.30167
9.76563	-18.94842	2.68833	-0.10516	-1.20185	0.95002	-0.00176	3.67697	0.24185	-0.00043	1.30790
10.00000	-19.04501	2.69527	-0.09811	-1.20734	0.95423	-0.00175	3.68222	0.24347	-0.00084	1.31469

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Low stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 15 - 30 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.51961	3.37030	-0.04230	-1.72350	1.07363	-0.00103	1.42742	0.43232	-0.01390	0.31942
PGV	4.74999	1.77466	0.00600	-2.95144	1.55976	-0.00140	10.66078	0.28752	-0.02920	0.55963
PGA	-0.23426	1.40364	-0.05546	-2.22202	0.91789	-0.00249	2.94138	0.50378	-0.02489	0.72970
0.01000	0.49513	1.42667	-0.05078	-2.37398	0.91866	-0.00229	3.60807	0.48637	-0.01033	0.72799
0.01024	0.53531	1.42899	-0.05010	-2.38295	0.91573	-0.00227	3.63619	0.48636	-0.01045	0.72936
0.01048	0.57811	1.43133	-0.04940	-2.39243	0.91286	-0.00225	3.66624	0.48628	-0.01059	0.73081
0.01072	0.62314	1.43370	-0.04869	-2.40233	0.91000	-0.00223	3.69778	0.48617	-0.01074	0.73229
0.01097	0.67032	1.43608	-0.04799	-2.41261	0.90705	-0.00221	3.73098	0.48601	-0.01090	0.73379
0.01123	0.71816	1.43843	-0.04729	-2.42295	0.90395	-0.00219	3.76425	0.48586	-0.01107	0.73538
0.01150	0.76406	1.44074	-0.04656	-2.43285	0.90055	-0.00216	3.79443	0.48582	-0.01128	0.73711
0.01177	0.80714	1.44301	-0.04581	-2.44212	0.89678	-0.00214	3.82042	0.48591	-0.01150	0.73891
0.01205	0.85220	1.44529	-0.04504	-2.45176	0.89298	-0.00212	3.84792	0.48597	-0.01172	0.74074
0.01233	0.90415	1.44767	-0.04427	-2.46272	0.88941	-0.00210	3.88278	0.48583	-0.01196	0.74264
0.01262	0.96079	1.45009	-0.04352	-2.47453	0.88578	-0.00207	3.92250	0.48556	-0.01221	0.74458
0.01292	1.01557	1.45245	-0.04277	-2.48588	0.88181	-0.00205	3.95934	0.48538	-0.01244	0.74643
0.01322	1.06719	1.45478	-0.04200	-2.49663	0.87771	-0.00202	3.99150	0.48535	-0.01266	0.74813
0.01353	1.11809	1.45711	-0.04123	-2.50725	0.87365	-0.00200	4.02199	0.48536	-0.01285	0.74971
0.01385	1.16774	1.45940	-0.04048	-2.51753	0.86938	-0.00198	4.05067	0.48543	-0.01303	0.75123
0.01417	1.21578	1.46164	-0.03974	-2.52739	0.86479	-0.00195	4.07684	0.48558	-0.01322	0.75276
0.01451	1.25957	1.46385	-0.03899	-2.53641	0.85986	-0.00193	4.09673	0.48593	-0.01339	0.75427
0.01485	1.29712	1.46598	-0.03821	-2.54420	0.85444	-0.00191	4.10825	0.48651	-0.01354	0.75562
0.01520	1.33035	1.46802	-0.03740	-2.55105	0.84874	-0.00189	4.11487	0.48722	-0.01367	0.75689
0.01556	1.36117	1.47000	-0.03659	-2.55734	0.84294	-0.00187	4.11930	0.48799	-0.01383	0.75842
0.01592	1.39236	1.47201	-0.03576	-2.56358	0.83684	-0.00185	4.12433	0.48877	-0.01402	0.76030
0.01630	1.42336	1.47403	-0.03491	-2.56965	0.83021	-0.00183	4.12872	0.48961	-0.01423	0.76238
0.01668	1.45090	1.47602	-0.03405	-2.57497	0.82328	-0.00181	4.12827	0.49059	-0.01441	0.76431
0.01707	1.47327	1.47794	-0.03320	-2.57929	0.81640	-0.00180	4.12108	0.49175	-0.01452	0.76587
0.01748	1.49270	1.47980	-0.03237	-2.58300	0.80960	-0.00178	4.11054	0.49299	-0.01459	0.76716
0.01789	1.51683	1.48169	-0.03155	-2.58755	0.80294	-0.00177	4.10567	0.49406	-0.01464	0.76835
0.01831	1.54387	1.48364	-0.03071	-2.59268	0.79643	-0.00175	4.10374	0.49506	-0.01468	0.76944
0.01874	1.56350	1.48549	-0.02979	-2.59631	0.78953	-0.00174	4.09289	0.49631	-0.01471	0.77048
0.01918	1.57591	1.48715	-0.02884	-2.59831	0.78182	-0.00172	4.07408	0.49780	-0.01475	0.77163
0.01963	1.58903	1.48871	-0.02796	-2.60030	0.77367	-0.00171	4.05628	0.49925	-0.01474	0.77251
0.02009	1.60343	1.49025	-0.02721	-2.60258	0.76576	-0.00169	4.03999	0.50063	-0.01463	0.77270
0.02057	1.61278	1.49171	-0.02655	-2.60384	0.75818	-0.00168	4.01913	0.50210	-0.01447	0.77255
0.02105	1.61594	1.49302	-0.02589	-2.60364	0.75034	-0.00167	3.99312	0.50374	-0.01436	0.77266
0.02154	1.61474	1.49426	-0.02513	-2.60230	0.74197	-0.00166	3.96305	0.50555	-0.01433	0.77333
0.02205	1.60345	1.49549	-0.02423	-2.59898	0.73317	-0.00166	3.92061	0.50780	-0.01436	0.77439
0.02257	1.58496	1.49687	-0.02322	-2.59452	0.72402	-0.00166	3.86797	0.51040	-0.01435	0.77525
0.02310	1.57469	1.49850	-0.02215	-2.59185	0.71451	-0.00165	3.82331	0.51282	-0.01426	0.77553
0.02364	1.56999	1.50009	-0.02111	-2.59010	0.70437	-0.00164	3.78650	0.51502	-0.01409	0.77521
0.02420	1.54787	1.50125	-0.02013	-2.58461	0.69337	-0.00163	3.73469	0.51765	-0.01384	0.77436
0.02477	1.49544	1.50191	-0.01917	-2.57297	0.68214	-0.00164	3.65428	0.52117	-0.01353	0.77320
0.02535	1.42485	1.50243	-0.01818	-2.55775	0.67169	-0.00165	3.55708	0.52528	-0.01323	0.77215
0.02595	1.35835	1.50316	-0.01710	-2.54341	0.66244	-0.00167	3.46502	0.52933	-0.01297	0.77148
0.02656	1.31157	1.50429	-0.01595	-2.53302	0.65374	-0.00168	3.39283	0.53283	-0.01276	0.77110
0.02719	1.28537	1.50582	-0.01484	-2.52680	0.64430	-0.00168	3.33971	0.53578	-0.01256	0.77078
0.02783	1.26492	1.50750	-0.01389	-2.52181	0.63332	-0.00168	3.29065	0.53868	-0.01236	0.77053
0.02848	1.23420	1.50901	-0.01302	-2.51477	0.62156	-0.00168	3.23195	0.54194	-0.01212	0.77008
0.02915	1.19177	1.51029	-0.01217	-2.50525	0.61041	-0.00168	3.16487	0.54550	-0.01179	0.76916
0.02984	1.14345	1.51127	-0.01138	-2.49416	0.59983	-0.00169	3.09652	0.54913	-0.01139	0.76793
0.03054	1.09150	1.51174	-0.01073	-2.48167	0.58878	-0.00170	3.02901	0.55274	-0.01094	0.76654
0.03126	1.03753	1.51175	-0.01014	-2.46832	0.57767	-0.00171	2.96295	0.55628	-0.01050	0.76521
0.03199	0.98368	1.51179	-0.00944	-2.45529	0.56843	-0.00172	2.89776	0.55974	-0.01010	0.76417
0.03275	0.93472	1.51216	-0.00860	-2.44393	0.56184	-0.00174	2.83530	0.56306	-0.00973	0.76336
0.03352	0.89181	1.51278	-0.00772	-2.43395	0.55603	-0.00176	2.77687	0.56627	-0.00937	0.76271
0.03430	0.84455	1.51327	-0.00695	-2.42258	0.54839	-0.00178	2.71523	0.56981	-0.00902	0.76221
0.03511	0.78327	1.51328	-0.00630	-2.40751	0.53780	-0.00179	2.64465	0.57395	-0.00870	0.76206
0.03594	0.70626	1.51267	-0.00572	-2.38845	0.52453	-0.00181	2.56597	0.57862	-0.00846	0.76259
0.03678	0.62254	1.51199	-0.00521	-2.36807	0.51040	-0.00183	2.48622	0.58343	-0.00830	0.76365
0.03765	0.54420	1.51204	-0.00484	-2.34998	0.49858	-0.00185	2.41269	0.58795	-0.00819	0.76513
0.03854	0.46005	1.51269	-0.00442	-2.33230	0.49128	-0.00188	2.33478	0.59257	-0.00813	0.76679
0.03944	0.35240	1.51311	-0.00373	-2.31075	0.48799	-0.00192	2.23930	0.59801	-0.00804	0.76814
0.04037	0.23358	1.51278	-0.00278	-2.28656	0.48687	-0.00198	2.13832	0.60382	-0.00789	0.76897
0.04132	0.13480	1.51180	-0.00181	-2.26505	0.48628	-0.00203	2.05714	0.60869	-0.00764	0.76900
0.04229	0.07730	1.51049	-0.00116	-2.25026	0.48503	-0.00207	2.01063	0.61169	-0.00719	0.76775
0.04329	0.05989	1.50899	-0.00099	-2.24220	0.48250	-0.00209	1.99656	0.61280	-0.00658	0.76535
0.04431	0.05143	1.50712	-0.00108	-2.23506	0.47831	-0.00211	1.99142	0.61341	-0.00588	0.76232
0.04535	0.00200	1.50474	-0.00110	-2.21972	0.47232	-0.00214	1.95698	0.61583	-0.00521	0.75956

0.04642	-0.11573	1.50215	-0.00085	-2.19175	0.46544	-0.00219	1.87201	0.62154	-0.00472	0.75801
0.04751	-0.28246	1.49996	-0.00030	-2.15553	0.45942	-0.00226	1.75224	0.62991	-0.00439	0.75764
0.04863	-0.45772	1.49830	0.00045	-2.11882	0.45480	-0.00232	1.62882	0.63910	-0.00411	0.75765
0.04977	-0.60922	1.49677	0.00125	-2.08720	0.45081	-0.00238	1.52456	0.64733	-0.00381	0.75721
0.05094	-0.72220	1.49484	0.00193	-2.06290	0.44735	-0.00242	1.44855	0.65349	-0.00337	0.75555
0.05214	-0.80375	1.49234	0.00238	-2.04417	0.44553	-0.00245	1.39608	0.65763	-0.00278	0.75242
0.05337	-0.87240	1.48945	0.00268	-2.02727	0.44616	-0.00249	1.35592	0.66068	-0.00209	0.74837
0.05462	-0.93967	1.48659	0.00303	-2.01008	0.44902	-0.00254	1.32087	0.66340	-0.00141	0.74423
0.05591	-1.00639	1.48398	0.00365	-1.99256	0.45293	-0.00260	1.28937	0.66603	-0.00089	0.74102
0.05722	-1.06517	1.48197	0.00448	-1.97653	0.45655	-0.00265	1.26432	0.66834	-0.00069	0.73988
0.05857	-1.10988	1.48086	0.00531	-1.96366	0.45973	-0.00271	1.24791	0.67007	-0.00085	0.74132
0.05995	-1.14939	1.48042	0.00599	-1.95241	0.46276	-0.00275	1.23333	0.67176	-0.00117	0.74424
0.06136	-1.20427	1.47984	0.00661	-1.93839	0.46427	-0.00280	1.20715	0.67467	-0.00137	0.74694
0.06280	-1.28699	1.47850	0.00726	-1.91855	0.46167	-0.00284	1.16251	0.67963	-0.00137	0.74889
0.06428	-1.39295	1.47646	0.00793	-1.89369	0.45452	-0.00287	1.10427	0.68635	-0.00125	0.75045
0.06579	-1.51280	1.47393	0.00857	-1.86601	0.44512	-0.00290	1.03953	0.69412	-0.00109	0.75175
0.06734	-1.63873	1.47070	0.00905	-1.83720	0.43599	-0.00294	0.97300	0.70231	-0.00089	0.75264
0.06893	-1.76195	1.46659	0.00922	-1.80895	0.42920	-0.00297	0.90896	0.71027	-0.00068	0.75308
0.07055	-1.87556	1.46172	0.00909	-1.78272	0.42676	-0.00300	0.85059	0.71750	-0.00038	0.75276
0.07221	-1.97700	1.45650	0.00876	-1.75910	0.43029	-0.00304	0.79939	0.72376	0.00004	0.75144
0.07391	-2.06729	1.45127	0.00843	-1.73768	0.44031	-0.00310	0.75578	0.72900	0.00050	0.74952
0.07565	-2.14833	1.44657	0.00828	-1.71815	0.45599	-0.00317	0.71965	0.73332	0.00101	0.74704
0.07743	-2.21680	1.44300	0.00827	-1.70162	0.47496	-0.00326	0.69237	0.73650	0.00168	0.74321
0.07925	-2.26194	1.44052	0.00803	-1.69015	0.49432	-0.00334	0.67765	0.73775	0.00250	0.73811
0.08111	-2.27386	1.43847	0.00711	-1.68495	0.51224	-0.00340	0.67881	0.73622	0.00326	0.73320
0.08302	-2.25398	1.43638	0.00540	-1.68535	0.52831	-0.00344	0.69500	0.73200	0.00383	0.72955
0.08498	-2.21743	1.43414	0.00320	-1.68857	0.54241	-0.00348	0.71962	0.72638	0.00417	0.72755
0.08697	-2.18319	1.43169	0.00086	-1.69121	0.55404	-0.00350	0.74355	0.72105	0.00430	0.72720
0.08902	-2.16220	1.42917	-0.00148	-1.69156	0.56291	-0.00352	0.76053	0.71703	0.00434	0.72775
0.09112	-2.15711	1.42670	-0.00375	-1.68931	0.56927	-0.00354	0.76853	0.71458	0.00441	0.72852
0.09326	-2.16957	1.42409	-0.00578	-1.68391	0.57312	-0.00355	0.76674	0.71378	0.00453	0.72921
0.09545	-2.20208	1.42076	-0.00742	-1.67424	0.57344	-0.00355	0.75385	0.71482	0.00475	0.72952
0.09770	-2.25533	1.41581	-0.00867	-1.65915	0.56928	-0.00355	0.72966	0.71772	0.00499	0.72972
0.10000	-2.32426	1.40890	-0.00969	-1.63902	0.56164	-0.00355	0.69747	0.72202	0.00513	0.73064
0.10235	-2.39489	1.40087	-0.01076	-1.61726	0.55320	-0.00355	0.66504	0.72649	0.00517	0.73248
0.10476	-2.45258	1.39293	-0.01215	-1.59800	0.54622	-0.00355	0.63938	0.72983	0.00520	0.73463
0.10723	-2.49172	1.38561	-0.01401	-1.58312	0.54158	-0.00354	0.62252	0.73148	0.00534	0.73617
0.10975	-2.51046	1.37921	-0.01633	-1.57344	0.53992	-0.00353	0.61496	0.73120	0.00562	0.73665
0.11233	-2.50813	1.37411	-0.01906	-1.56944	0.54203	-0.00351	0.61741	0.72884	0.00593	0.73664
0.11498	-2.48919	1.37037	-0.02203	-1.57011	0.54817	-0.00350	0.62860	0.72476	0.00604	0.73751
0.11768	-2.46224	1.36783	-0.02507	-1.57345	0.55819	-0.00350	0.64526	0.71974	0.00583	0.74007
0.12045	-2.43684	1.36638	-0.02802	-1.57754	0.57188	-0.00351	0.66344	0.71461	0.00540	0.74365
0.12328	-2.42340	1.36581	-0.03070	-1.58024	0.58809	-0.00353	0.67822	0.71028	0.00497	0.74673
0.12619	-2.43197	1.36549	-0.03301	-1.57916	0.60447	-0.00357	0.68387	0.70765	0.00471	0.74814
0.12916	-2.46903	1.36457	-0.03493	-1.57238	0.61855	-0.00361	0.67600	0.70736	0.00469	0.74755
0.13219	-2.53422	1.36245	-0.03658	-1.55939	0.62916	-0.00365	0.65412	0.70950	0.00487	0.74526
0.13531	-2.62008	1.35903	-0.03812	-1.54154	0.63658	-0.00369	0.62200	0.71352	0.00524	0.74152
0.13849	-2.71405	1.35466	-0.03976	-1.52162	0.64168	-0.00373	0.58584	0.71846	0.00579	0.73639
0.14175	-2.79840	1.34964	-0.04180	-1.50352	0.64525	-0.00375	0.55350	0.72272	0.00652	0.72997
0.14508	-2.85700	1.34394	-0.04460	-1.49037	0.64765	-0.00375	0.53130	0.72465	0.00739	0.72261
0.14850	-2.88511	1.33743	-0.04824	-1.48281	0.64911	-0.00372	0.52086	0.72360	0.00825	0.71528
0.15199	-2.88745	1.33024	-0.05254	-1.47981	0.65050	-0.00368	0.52081	0.71981	0.00892	0.70913
0.15557	-2.87207	1.32283	-0.05717	-1.48004	0.65264	-0.00363	0.52886	0.71396	0.00931	0.70482
0.15923	-2.84521	1.31562	-0.06198	-1.48263	0.65549	-0.00358	0.54306	0.70671	0.00948	0.70208
0.16298	-2.80835	1.30887	-0.06695	-1.48750	0.65904	-0.00353	0.56331	0.69829	0.00955	0.70029
0.16681	-2.76447	1.30271	-0.07205	-1.49418	0.66383	-0.00347	0.58885	0.68903	0.00958	0.69933
0.17074	-2.71675	1.29725	-0.07721	-1.50210	0.67086	-0.00342	0.61895	0.67926	0.00953	0.69947
0.17475	-2.66657	1.29287	-0.08238	-1.51126	0.68094	-0.00338	0.65388	0.66912	0.00944	0.70049
0.17887	-2.61130	1.29023	-0.08757	-1.52275	0.69487	-0.00335	0.69618	0.65844	0.00939	0.70164
0.18307	-2.54984	1.28994	-0.09271	-1.53736	0.71318	-0.00334	0.74747	0.64730	0.00945	0.70245
0.18738	-2.48397	1.29188	-0.09764	-1.55458	0.73562	-0.00333	0.80743	0.63599	0.00953	0.70335
0.19179	-2.41953	1.29517	-0.10223	-1.57237	0.76046	-0.00334	0.87249	0.62507	0.00942	0.70557
0.19631	-2.36558	1.29893	-0.10635	-1.58809	0.78492	-0.00336	0.93572	0.61539	0.00897	0.71017
0.20092	-2.32880	1.30253	-0.11000	-1.59987	0.80660	-0.00338	0.99085	0.60745	0.00820	0.71703
0.20565	-2.31079	1.30567	-0.11321	-1.60726	0.82446	-0.00340	1.03448	0.60137	0.00721	0.72533
0.21049	-2.30771	1.30832	-0.11605	-1.61112	0.83886	-0.00341	1.06739	0.59679	0.00611	0.73438
0.21544	-2.31186	1.31052	-0.11862	-1.61308	0.85113	-0.00342	1.09455	0.59300	0.00499	0.74368
0.22051	-2.32329	1.31241	-0.12092	-1.61319	0.86228	-0.00343	1.11614	0.58994	0.00390	0.75280
0.22570	-2.34089	1.31402	-0.12297	-1.61155	0.87324	-0.00345	1.13366	0.58740	0.00290	0.76160
0.23101	-2.36274	1.31534	-0.12492	-1.60844	0.88411	-0.00347	1.14882	0.58520	0.00205	0.76960
0.23645	-2.38282	1.31661	-0.12685	-1.60534	0.89500	-0.00349	1.16603	0.58288	0.00148	0.77617
0.24201	-2.39757	1.31791	-0.12877	-1.60313	0.90585	-0.00350	1.18755	0.58022	0.00115	0.78137
0.24771	-2.40573	1.31924	-0.13068	-1.60210	0.91635	-0.00352	1.21426	0.57717	0.00097	0.78584
0.25354	-2.40778	1.32057	-0.13258	-1.60208	0.92561	-0.00353	1.24574	0.57381	0.00081	0.79035
0.25950	-2.40370	1.32195	-0.13446	-1.60317	0.93239	-0.00352	1.28183	0.57023	0.00061	0.79517
0.26561	-2.39800	1.32331	-0.13630	-1.60452	0.93560	-0.00350	1.31835	0.56682	0.00037	0.80018
0.27186	-2.39465	1.32459	-0.13804	-1.60532	0.93530	-0.00348	1.35204	0.56385	0.00006	0.80546
0.27826	-2.40586	1.32529	-0.13967	-1.60259	0.93079	-0.00344	1.37248	0.56210	-0.00030	0.81095
0.28480	-2.43985	1.32526	-0.14124	-1.59460	0.92160	-0.00341	1.37151	0.56220	-0.00061	0.81596
0.29150	-2.50098	1.32466	-0.14269	-1.58078	0.90785	-0.00337	1.34513	0.56448	-0.00078	0.81979
0.29836	-2.57681	1.32378	-0.14408	-1.56393	0.89124	-0.00333	1.30461	0.56803	-0.00081	0.82250

0.30539	-2.65909	1.32340	-0.14563	-1.54651	0.87380	-0.00329	1.25843	0.57226	-0.00049	0.82282
0.31257	-2.75155	1.32299	-0.14730	-1.52725	0.85531	-0.00325	1.20436	0.57732	0.00011	0.82105
0.31993	-2.85803	1.32206	-0.14905	-1.50495	0.83495	-0.00322	1.14018	0.58344	0.00098	0.81725
0.32745	-2.97202	1.32086	-0.15080	-1.48111	0.81668	-0.00320	1.07327	0.58995	0.00208	0.81171
0.33517	-3.08073	1.32117	-0.15274	-1.46008	0.80362	-0.00319	1.01480	0.59596	0.00344	0.80418
0.34304	-3.19012	1.32120	-0.15486	-1.43917	0.79131	-0.00319	0.95703	0.60196	0.00485	0.79618
0.35112	-3.29782	1.32112	-0.15718	-1.41917	0.78060	-0.00318	0.90175	0.60770	0.00609	0.78899
0.35938	-3.40654	1.32002	-0.15973	-1.39859	0.77003	-0.00318	0.84569	0.61349	0.00713	0.78313
0.36784	-3.51172	1.32007	-0.16231	-1.38041	0.76366	-0.00319	0.79566	0.61880	0.00828	0.77628
0.37649	-3.61002	1.32142	-0.16501	-1.36549	0.76057	-0.00320	0.75368	0.62324	0.00955	0.76850
0.38536	-3.70610	1.32307	-0.16782	-1.35186	0.75904	-0.00322	0.71518	0.62726	0.01076	0.76099
0.39442	-3.79423	1.32446	-0.17092	-1.33999	0.75972	-0.00324	0.68361	0.63002	0.01176	0.75500
0.40370	-3.87103	1.32588	-0.17425	-1.33099	0.76102	-0.00325	0.66121	0.63103	0.01253	0.75061
0.41321	-3.93692	1.32790	-0.17780	-1.32536	0.76219	-0.00325	0.64785	0.63037	0.01314	0.74738
0.42292	-3.99560	1.33004	-0.18168	-1.32175	0.76229	-0.00325	0.64066	0.62841	0.01357	0.74548
0.43288	-4.05173	1.33178	-0.18585	-1.31872	0.76031	-0.00323	0.63669	0.62549	0.01369	0.74590
0.44307	-4.10603	1.33281	-0.19020	-1.31577	0.75674	-0.00321	0.63510	0.62169	0.01331	0.74983
0.45349	-4.14666	1.33309	-0.19509	-1.31551	0.75035	-0.00316	0.64157	0.61597	0.01251	0.75697
0.46417	-4.17464	1.33417	-0.20029	-1.31915	0.74416	-0.00310	0.65825	0.60838	0.01151	0.76549
0.47508	-4.19842	1.33582	-0.20569	-1.32461	0.73835	-0.00304	0.68072	0.59976	0.01042	0.77477
0.48626	-4.22306	1.33799	-0.21120	-1.33085	0.73446	-0.00299	0.70645	0.59059	0.00934	0.78407
0.49771	-4.24822	1.34087	-0.21679	-1.33812	0.73400	-0.00295	0.73636	0.58089	0.00833	0.79287
0.50942	-4.28027	1.34315	-0.22246	-1.34380	0.73311	-0.00291	0.76552	0.57110	0.00742	0.80104
0.52140	-4.31697	1.34597	-0.22816	-1.34935	0.73247	-0.00287	0.79690	0.56106	0.00678	0.80739
0.53367	-4.35524	1.35025	-0.23391	-1.35615	0.73479	-0.00285	0.83424	0.55063	0.00643	0.81196
0.54624	-4.39310	1.35466	-0.23960	-1.36340	0.73845	-0.00283	0.87767	0.53959	0.00626	0.81538
0.55910	-4.42638	1.35865	-0.24530	-1.37153	0.74264	-0.00280	0.93030	0.52745	0.00615	0.81836
0.57225	-4.46216	1.36224	-0.25066	-1.37919	0.74534	-0.00276	0.98815	0.51478	0.00600	0.82139
0.58569	-4.50854	1.36653	-0.25560	-1.38549	0.74850	-0.00273	1.04558	0.50262	0.00598	0.82321
0.59948	-4.56561	1.37106	-0.26031	-1.38982	0.75335	-0.00272	1.10137	0.49100	0.00610	0.82382
0.61357	-4.62464	1.37582	-0.26495	-1.39411	0.76063	-0.00272	1.16114	0.47937	0.00654	0.82210
0.62802	-4.68984	1.38021	-0.26958	-1.39694	0.76725	-0.00271	1.22113	0.46786	0.00726	0.81842
0.64280	-4.75951	1.38448	-0.27416	-1.39870	0.77300	-0.00271	1.28398	0.45626	0.00817	0.81324
0.65794	-4.82994	1.38916	-0.27871	-1.40079	0.77968	-0.00270	1.35421	0.44432	0.00939	0.80588
0.67340	-4.89807	1.39411	-0.28314	-1.40369	0.78719	-0.00269	1.43416	0.43199	0.01087	0.79676
0.68927	-4.96440	1.39884	-0.28746	-1.40680	0.79499	-0.00269	1.52329	0.41938	0.01247	0.78691
0.70547	-5.02880	1.40298	-0.29165	-1.40956	0.80313	-0.00268	1.62129	0.40651	0.01400	0.77747
0.72207	-5.09416	1.40692	-0.29565	-1.41183	0.81163	-0.00268	1.72756	0.39352	0.01549	0.76818
0.73910	-5.16236	1.41114	-0.29937	-1.41376	0.81994	-0.00268	1.84110	0.38056	0.01698	0.75847
0.75649	-5.23266	1.41576	-0.30280	-1.41554	0.82787	-0.00267	1.96179	0.36775	0.01844	0.74823
0.77429	-5.30299	1.42050	-0.30605	-1.41732	0.83556	-0.00267	2.09147	0.35504	0.01988	0.73732
0.79246	-5.37140	1.42501	-0.30921	-1.41906	0.84331	-0.00266	2.23041	0.34248	0.02129	0.72580
0.81116	-5.43861	1.42924	-0.31236	-1.42065	0.85087	-0.00266	2.37976	0.33001	0.02267	0.71375
0.83022	-5.50480	1.43346	-0.31537	-1.42223	0.85820	-0.00265	2.53780	0.31784	0.02401	0.70143
0.84976	-5.57440	1.43809	-0.31817	-1.42341	0.86517	-0.00264	2.70035	0.30614	0.02532	0.68902
0.86972	-5.65018	1.44337	-0.32068	-1.42377	0.87139	-0.00264	2.86129	0.29515	0.02656	0.67699
0.89023	-5.73275	1.44929	-0.32295	-1.42326	0.87682	-0.00263	3.01920	0.28485	0.02772	0.66583
0.91116	-5.81916	1.45554	-0.32503	-1.42212	0.88161	-0.00262	3.17330	0.27526	0.02877	0.65621
0.93257	-5.90672	1.46183	-0.32701	-1.42068	0.88606	-0.00262	3.32633	0.26620	0.02971	0.64823
0.95456	-5.99413	1.46804	-0.32896	-1.41913	0.89037	-0.00261	3.48026	0.25759	0.03053	0.64191
0.97704	-6.08155	1.47426	-0.33084	-1.41752	0.89449	-0.00261	3.63354	0.24945	0.03123	0.63727
1.00000	-6.17128	1.48078	-0.33259	-1.41562	0.89819	-0.00260	3.78264	0.24185	0.03180	0.63422
1.02354	-6.26584	1.48787	-0.33418	-1.41323	0.90123	-0.00259	3.92463	0.23482	0.03224	0.63260
1.04767	-6.36653	1.49564	-0.33558	-1.41018	0.90347	-0.00259	4.05617	0.22839	0.03255	0.63224
1.07227	-6.47225	1.50396	-0.33682	-1.40650	0.90495	-0.00258	4.17626	0.22254	0.03276	0.63292
1.09745	-6.58186	1.51260	-0.33795	-1.40227	0.90580	-0.00257	4.28613	0.21719	0.03289	0.63445
1.12334	-6.69378	1.52132	-0.33904	-1.39765	0.90627	-0.00257	4.38830	0.21223	0.03297	0.63669
1.14982	-6.80600	1.52989	-0.34012	-1.39278	0.90653	-0.00256	4.48379	0.20761	0.03300	0.63949
1.17675	-6.91748	1.53824	-0.34119	-1.38778	0.90668	-0.00255	4.57273	0.20333	0.03300	0.64269
1.20453	-7.03041	1.54664	-0.34224	-1.38260	0.90673	-0.00255	4.65611	0.19933	0.03295	0.64619
1.23289	-7.14498	1.55521	-0.34321	-1.37723	0.90660	-0.00254	4.73155	0.19568	0.03287	0.64977
1.26183	-7.26239	1.56418	-0.34405	-1.37162	0.90620	-0.00254	4.79750	0.19238	0.03274	0.65339
1.29149	-7.38393	1.57371	-0.34475	-1.36571	0.90548	-0.00253	4.85349	0.18943	0.03256	0.65711
1.32188	-7.50946	1.58381	-0.34531	-1.35953	0.90446	-0.00253	4.89980	0.18681	0.03233	0.66100
1.35300	-7.63810	1.59435	-0.34574	-1.35316	0.90322	-0.00252	4.93760	0.18448	0.03207	0.66513
1.38485	-7.76861	1.60517	-0.34608	-1.34667	0.90184	-0.00252	4.96828	0.18240	0.03177	0.66960
1.41743	-7.89955	1.61604	-0.34636	-1.34017	0.90046	-0.00252	4.99369	0.18053	0.03145	0.67455
1.45075	-8.02976	1.62680	-0.34660	-1.33373	0.89915	-0.00251	5.01536	0.17882	0.03111	0.67998
1.48500	-8.15935	1.63745	-0.34683	-1.32740	0.89799	-0.00251	5.03446	0.17726	0.03076	0.68593
1.51999	-8.28741	1.64792	-0.34703	-1.32126	0.89699	-0.00251	5.05130	0.17583	0.03040	0.69231
1.55569	-8.41448	1.65830	-0.34717	-1.31525	0.89611	-0.00250	5.06531	0.17456	0.03003	0.69910
1.59236	-8.54219	1.66881	-0.34723	-1.30934	0.89528	-0.00250	5.07586	0.17345	0.02964	0.70632
1.62973	-8.67041	1.67952	-0.34717	-1.30353	0.89446	-0.00250	5.08233	0.17251	0.02924	0.71389
1.66806	-8.80060	1.69062	-0.34697	-1.29779	0.89361	-0.00250	5.08444	0.17176	0.02882	0.72184
1.70736	-8.93314	1.70218	-0.34661	-1.29208	0.89268	-0.00249	5.08194	0.17120	0.02837	0.73017
1.74764	-9.06803	1.71422	-0.34608	-1.28642	0.89168	-0.00249	5.07498	0.17082	0.02789	0.73886
1.78859	-9.20393	1.72658	-0.34540	-1.28086	0.89065	-0.00249	5.06415	0.17060	0.02740	0.74784
1.83083	-9.34230	1.73936	-0.34458	-1.27534	0.88959	-0.00248	5.05018	0.17051	0.02689	0.75722
1.87371	-9.48023	1.75224	-0.34366	-1.26999	0.88860	-0.00248	5.03422	0.17053	0.02637	0.76683
1.91791	-9.61917	1.76529	-0.34263	-1.26475	0.88770	-0.00248	5.01673	0.17064	0.02585	0.77675
1.96309	-9.75733	1.77831	-0.34152	-1.25969	0.88695	-0.00247	4.99865	0.17083	0.02534	0.78677

2.00924	-9.89412	1.79118	-0.34037	-1.25483	0.88639	-0.00247	4.98061	0.17106	0.02483	0.79676
2.05634	-10.02924	1.80387	-0.33916	-1.25019	0.88603	-0.00247	4.96290	0.17134	0.02434	0.80654
2.10482	-10.16375	1.81646	-0.33790	-1.24573	0.88587	-0.00246	4.94550	0.17165	0.02386	0.81606
2.15424	-10.29660	1.82886	-0.33659	-1.24147	0.88591	-0.00246	4.92835	0.17201	0.02341	0.82501
2.20507	-10.42932	1.84124	-0.33520	-1.23735	0.88610	-0.00246	4.91089	0.17241	0.02296	0.83338
2.25683	-10.56108	1.85353	-0.33373	-1.23338	0.88640	-0.00246	4.89283	0.17286	0.02253	0.84115
2.31000	-10.69355	1.86591	-0.33215	-1.22948	0.88677	-0.00246	4.87351	0.17338	0.02211	0.84849
2.36463	-10.82716	1.87846	-0.33045	-1.22564	0.88716	-0.00245	4.85247	0.17397	0.02168	0.85552
2.42014	-10.96087	1.89110	-0.32863	-1.22185	0.88754	-0.00245	4.82957	0.17462	0.02124	0.86231
2.47709	-11.09614	1.90396	-0.32666	-1.21809	0.88789	-0.00245	4.80461	0.17535	0.02080	0.86909
2.53550	-11.23308	1.91708	-0.32455	-1.21434	0.88819	-0.00245	4.77749	0.17615	0.02033	0.87604
2.59471	-11.37016	1.93031	-0.32233	-1.21061	0.88844	-0.00244	4.74852	0.17702	0.01985	0.88322
2.65604	-11.51018	1.94390	-0.31993	-1.20689	0.88864	-0.00244	4.71744	0.17796	0.01935	0.89086
2.71887	-11.65142	1.95770	-0.31740	-1.20317	0.88880	-0.00244	4.68477	0.17896	0.01883	0.89892
2.78242	-11.79198	1.97150	-0.31477	-1.19955	0.88894	-0.00243	4.65127	0.18000	0.01830	0.90736
2.84819	-11.93460	1.98553	-0.31198	-1.19595	0.88908	-0.00243	4.61682	0.18108	0.01776	0.91645
2.91545	-12.07757	1.99965	-0.30912	-1.19240	0.88923	-0.00243	4.58185	0.18219	0.01721	0.92610
2.98329	-12.21838	2.01353	-0.30615	-1.18903	0.88943	-0.00242	4.54768	0.18331	0.01666	0.93608
3.05344	-12.36049	2.02757	-0.30313	-1.18566	0.88966	-0.00242	4.51337	0.18442	0.01612	0.94639
3.12598	-12.50360	2.04164	-0.29993	-1.18243	0.88999	-0.00241	4.47959	0.18556	0.01558	0.95682
3.19898	-12.64358	2.05539	-0.29676	-1.17931	0.89037	-0.00241	4.44726	0.18665	0.01506	0.96678
3.27439	-12.78430	2.06915	-0.29343	-1.17633	0.89085	-0.00240	4.41576	0.18774	0.01457	0.97627
3.35121	-12.92324	2.08268	-0.29011	-1.17343	0.89141	-0.00240	4.38570	0.18878	0.01410	0.98498
3.43053	-13.06273	2.09621	-0.28664	-1.17070	0.89208	-0.00239	4.35671	0.18983	0.01365	0.99329
3.51124	-13.20020	2.10950	-0.28319	-1.16805	0.89282	-0.00239	4.32920	0.19081	0.01322	1.00130
3.59324	-13.33590	2.12251	-0.27959	-1.16564	0.89368	-0.00238	4.30340	0.19179	0.01280	1.00940
3.67782	-13.47197	2.13562	-0.27606	-1.16318	0.89457	-0.00238	4.27810	0.19273	0.01240	1.01798
3.76506	-13.60781	2.14846	-0.27221	-1.16105	0.89560	-0.00237	4.25464	0.19367	0.01199	1.02753
3.85356	-13.74287	2.16148	-0.26859	-1.15875	0.89659	-0.00237	4.23106	0.19456	0.01160	1.03770
3.94477	-13.87675	2.17398	-0.26457	-1.15687	0.89772	-0.00236	4.20986	0.19545	0.01120	1.04861
4.03714	-14.01075	2.18686	-0.26076	-1.15482	0.89880	-0.00236	4.18793	0.19632	0.01083	1.05963
4.13223	-14.14343	2.19930	-0.25677	-1.15297	0.89993	-0.00235	4.16766	0.19715	0.01046	1.07077
4.23012	-14.27752	2.21189	-0.25250	-1.15131	0.90111	-0.00235	4.14768	0.19803	0.01010	1.08169
4.32900	-14.41050	2.22468	-0.24864	-1.14935	0.90216	-0.00234	4.12697	0.19882	0.00978	1.09170
4.43066	-14.54135	2.23664	-0.24413	-1.14799	0.90336	-0.00234	4.10903	0.19967	0.00944	1.10124
4.53515	-14.67604	2.24957	-0.23988	-1.14629	0.90444	-0.00233	4.08882	0.20050	0.00913	1.11001
4.64253	-14.80925	2.26215	-0.23567	-1.14458	0.90548	-0.00232	4.06943	0.20128	0.00884	1.11813
4.75059	-14.93892	2.27393	-0.23084	-1.14353	0.90664	-0.00231	4.05245	0.20213	0.00854	1.12572
4.86145	-15.07321	2.28703	-0.22660	-1.14181	0.90758	-0.00231	4.03211	0.20292	0.00827	1.13255
4.97760	-15.20655	2.29945	-0.22208	-1.14034	0.90857	-0.00230	4.01361	0.20370	0.00800	1.13911
5.09424	-15.33670	2.31117	-0.21690	-1.13953	0.90968	-0.00229	3.99712	0.20458	0.00771	1.14532
5.21376	-15.47239	2.32451	-0.21252	-1.13787	0.91051	-0.00228	3.97664	0.20536	0.00747	1.15089
5.33618	-15.60317	2.33674	-0.20805	-1.13646	0.91137	-0.00227	3.95862	0.20608	0.00723	1.15624
5.46150	-15.73130	2.34792	-0.20253	-1.13598	0.91245	-0.00227	3.94357	0.20696	0.00694	1.16173
5.58971	-15.86642	2.36105	-0.19778	-1.13463	0.91323	-0.00226	3.92412	0.20776	0.00670	1.16686
5.72082	-15.99926	2.37399	-0.19362	-1.13292	0.91389	-0.00225	3.90477	0.20842	0.00649	1.17190
5.85823	-16.12647	2.38467	-0.18789	-1.13267	0.91496	-0.00224	3.89117	0.20928	0.00621	1.17771
5.99520	-16.25690	2.39662	-0.18246	-1.13206	0.91584	-0.00223	3.87491	0.21014	0.00595	1.18341
6.13497	-16.39242	2.41035	-0.17832	-1.13027	0.91636	-0.00222	3.85470	0.21078	0.00575	1.18882
6.28141	-16.51992	2.42173	-0.17354	-1.12933	0.91714	-0.00221	3.83958	0.21145	0.00552	1.19478
6.42674	-16.63974	2.43136	-0.16748	-1.12967	0.91821	-0.00220	3.82852	0.21234	0.00524	1.20115
6.57895	-16.77214	2.44377	-0.16212	-1.12900	0.91898	-0.00219	3.81236	0.21314	0.00500	1.20748
6.73401	-16.90853	2.45781	-0.15826	-1.12708	0.91938	-0.00218	3.79298	0.21365	0.00483	1.21346
6.89180	-17.02824	2.46791	-0.15342	-1.12658	0.92018	-0.00217	3.78108	0.21427	0.00461	1.21999
7.05716	-17.14700	2.47679	-0.14686	-1.12743	0.92136	-0.00216	3.77229	0.21521	0.00430	1.22721
7.22022	-17.27200	2.48809	-0.14143	-1.12719	0.92217	-0.00215	3.75928	0.21595	0.00407	1.23374
7.39098	-17.40845	2.50225	-0.13752	-1.12543	0.92255	-0.00214	3.74187	0.21638	0.00392	1.23970
7.56430	-17.53021	2.51338	-0.13365	-1.12424	0.92310	-0.00213	3.72942	0.21675	0.00376	1.24549
7.73994	-17.63467	2.51988	-0.12723	-1.12566	0.92437	-0.00212	3.72464	0.21765	0.00346	1.25179
7.92393	-17.75316	2.52927	-0.12106	-1.12634	0.92544	-0.00211	3.71610	0.21847	0.00319	1.25755
8.11030	-17.88006	2.54118	-0.11605	-1.12589	0.92616	-0.00210	3.70437	0.21904	0.00300	1.26240
8.29876	-18.01379	2.55561	-0.11311	-1.12368	0.92636	-0.00208	3.69006	0.21909	0.00291	1.26615
8.49618	-18.12561	2.56447	-0.10892	-1.12333	0.92710	-0.00207	3.68284	0.21945	0.00274	1.27040
8.69565	-18.22155	2.56902	-0.10196	-1.12560	0.92858	-0.00207	3.68059	0.22051	0.00241	1.27542
8.90472	-18.33652	2.57780	-0.09587	-1.12652	0.92970	-0.00206	3.67434	0.22127	0.00215	1.27991
9.11577	-18.45669	2.58829	-0.09062	-1.12667	0.93058	-0.00205	3.66680	0.22180	0.00195	1.28399
9.32836	-18.59132	2.60306	-0.08762	-1.12469	0.93082	-0.00203	3.65706	0.22164	0.00189	1.28721
9.54198	-18.70790	2.61438	-0.08530	-1.12290	0.93107	-0.00202	3.65178	0.22130	0.00184	1.29060
9.76563	-18.79103	2.61666	-0.07895	-1.12542	0.93256	-0.00201	3.64972	0.22245	0.00151	1.29623
10.00000	-18.88725	2.62129	-0.07193	-1.12785	0.93409	-0.00201	3.64739	0.22355	0.00118	1.30253

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Low stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 30 - 61 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.43153	3.37079	-0.04612	-1.74140	1.08108	-0.00100	1.46628	0.43196	-0.01267	0.30094
PGV	4.68205	1.76394	-0.06552	-2.89215	1.54262	-0.00126	10.16590	0.29360	-0.01616	0.46237
PGA	1.78837	1.48554	-0.06805	-2.71822	1.11632	-0.00175	5.21383	0.44753	-0.02868	0.74155
0.01000	2.39996	1.50313	-0.06415	-2.84153	1.11588	-0.00160	5.88879	0.43818	-0.00866	0.69854
0.01024	2.41606	1.50529	-0.06337	-2.84565	1.11138	-0.00159	5.88912	0.43902	-0.00873	0.69936
0.01048	2.43580	1.50745	-0.06258	-2.85046	1.10707	-0.00157	5.89329	0.43979	-0.00881	0.70019
0.01072	2.45819	1.50960	-0.06179	-2.85575	1.10287	-0.00156	5.89994	0.44049	-0.00889	0.70101
0.01097	2.48350	1.51176	-0.06098	-2.86158	1.09879	-0.00154	5.90946	0.44113	-0.00898	0.70182
0.01123	2.51314	1.51394	-0.06016	-2.86822	1.09487	-0.00152	5.92374	0.44168	-0.00907	0.70264
0.01150	2.54806	1.51615	-0.05934	-2.87585	1.09105	-0.00151	5.94414	0.44210	-0.00918	0.70352
0.01177	2.58740	1.51837	-0.05852	-2.88428	1.08723	-0.00149	5.96963	0.44244	-0.00931	0.70448
0.01205	2.62757	1.52058	-0.05771	-2.89280	1.08331	-0.00147	5.99549	0.44277	-0.00946	0.70549
0.01233	2.66502	1.52275	-0.05690	-2.90078	1.07930	-0.00145	6.01682	0.44317	-0.00961	0.70653
0.01262	2.70113	1.52492	-0.05607	-2.90852	1.07531	-0.00143	6.03530	0.44363	-0.00977	0.70760
0.01292	2.74072	1.52713	-0.05523	-2.91692	1.07151	-0.00141	6.05752	0.44402	-0.00994	0.70874
0.01322	2.78532	1.52939	-0.05439	-2.92626	1.06789	-0.00139	6.08568	0.44430	-0.01012	0.70990
0.01353	2.83453	1.53168	-0.05353	-2.93646	1.06434	-0.00137	6.11896	0.44449	-0.01030	0.71107
0.01385	2.88703	1.53402	-0.05265	-2.94727	1.06070	-0.00135	6.15526	0.44464	-0.01048	0.71225
0.01417	2.93872	1.53633	-0.05175	-2.95785	1.05674	-0.00133	6.18951	0.44485	-0.01067	0.71342
0.01451	2.98798	1.53860	-0.05083	-2.96787	1.05238	-0.00131	6.21991	0.44513	-0.01084	0.71456
0.01485	3.03301	1.54081	-0.04990	-2.97703	1.04769	-0.00129	6.24392	0.44555	-0.01101	0.71568
0.01520	3.07371	1.54300	-0.04896	-2.98534	1.04288	-0.00127	6.26119	0.44608	-0.01117	0.71683
0.01556	3.11185	1.54519	-0.04801	-2.99317	1.03807	-0.00125	6.27395	0.44670	-0.01134	0.71808
0.01592	3.14765	1.54739	-0.04705	-3.00055	1.03320	-0.00123	6.28249	0.44740	-0.01151	0.71942
0.01630	3.18418	1.54960	-0.04609	-3.00803	1.02840	-0.00122	6.29142	0.44810	-0.01171	0.72100
0.01668	3.22617	1.55187	-0.04513	-3.01652	1.02394	-0.00120	6.30762	0.44866	-0.01196	0.72294
0.01707	3.27234	1.55414	-0.04419	-3.02573	1.01956	-0.00118	6.32930	0.44912	-0.01223	0.72510
0.01748	3.31897	1.55641	-0.04324	-3.03496	1.01494	-0.00116	6.35101	0.44960	-0.01250	0.72727
0.01789	3.36164	1.55864	-0.04227	-3.04340	1.01008	-0.00114	6.36629	0.45020	-0.01274	0.72933
0.01831	3.39716	1.56081	-0.04124	-3.05045	1.00497	-0.00113	6.37071	0.45099	-0.01296	0.73121
0.01874	3.42819	1.56293	-0.04020	-3.05657	0.99963	-0.00111	6.36836	0.45192	-0.01315	0.73290
0.01918	3.45772	1.56502	-0.03916	-3.06230	0.99396	-0.00110	6.36342	0.45291	-0.01333	0.73452
0.01963	3.48358	1.56713	-0.03811	-3.06728	0.98782	-0.00109	6.35214	0.45404	-0.01353	0.73631
0.02009	3.50671	1.56933	-0.03702	-3.07174	0.98116	-0.00107	6.33513	0.45533	-0.01378	0.73838
0.02057	3.53377	1.57169	-0.03589	-3.07691	0.97417	-0.00106	6.32119	0.45662	-0.01403	0.74053
0.02105	3.56769	1.57420	-0.03476	-3.08340	0.96750	-0.00104	6.31484	0.45779	-0.01427	0.74258
0.02154	3.60221	1.57670	-0.03360	-3.09000	0.96126	-0.00103	6.30937	0.45892	-0.01446	0.74431
0.02205	3.62411	1.57901	-0.03245	-3.09410	0.95442	-0.00102	6.28851	0.46033	-0.01458	0.74560
0.02257	3.63549	1.58112	-0.03132	-3.09601	0.94689	-0.00101	6.25614	0.46193	-0.01470	0.74683
0.02310	3.66184	1.58320	-0.03024	-3.10048	0.93974	-0.00099	6.24604	0.46312	-0.01487	0.74851
0.02364	3.70995	1.58532	-0.02925	-3.10878	0.93296	-0.00098	6.26617	0.46376	-0.01509	0.75045
0.02420	3.75573	1.58733	-0.02830	-3.11647	0.92579	-0.00096	6.28393	0.46443	-0.01522	0.75187
0.02477	3.78206	1.58922	-0.02735	-3.12048	0.91823	-0.00095	6.27622	0.46557	-0.01523	0.75252
0.02535	3.79616	1.59119	-0.02637	-3.12233	0.91101	-0.00094	6.25133	0.46703	-0.01519	0.75283
0.02595	3.81715	1.59339	-0.02537	-3.12555	0.90421	-0.00094	6.23396	0.46839	-0.01518	0.75339
0.02656	3.84544	1.59577	-0.02437	-3.13004	0.89702	-0.00093	6.22498	0.46965	-0.01523	0.75432
0.02719	3.84863	1.59809	-0.02330	-3.12980	0.88873	-0.00092	6.18316	0.47157	-0.01527	0.75528
0.02783	3.81480	1.60017	-0.02209	-3.12256	0.87932	-0.00093	6.09536	0.47440	-0.01529	0.75621
0.02848	3.76631	1.60215	-0.02080	-3.11244	0.86944	-0.00094	5.99154	0.47758	-0.01537	0.75764
0.02915	3.70133	1.60408	-0.01945	-3.09925	0.85935	-0.00095	5.86850	0.48119	-0.01553	0.75970
0.02984	3.60756	1.60585	-0.01804	-3.08084	0.84883	-0.00098	5.71105	0.48553	-0.01568	0.76171
0.03054	3.50555	1.60735	-0.01665	-3.06075	0.83838	-0.00100	5.54758	0.49005	-0.01579	0.76349
0.03126	3.41801	1.60866	-0.01544	-3.04314	0.82946	-0.00102	5.40657	0.49409	-0.01588	0.76533
0.03199	3.35109	1.61010	-0.01440	-3.02944	0.82304	-0.00105	5.29333	0.49751	-0.01597	0.76719
0.03275	3.30804	1.61181	-0.01341	-3.02022	0.81803	-0.00107	5.20994	0.50031	-0.01601	0.76885
0.03352	3.28431	1.61367	-0.01243	-3.01437	0.81248	-0.00108	5.15015	0.50267	-0.01603	0.77038
0.03430	3.26828	1.61559	-0.01159	-3.00978	0.80549	-0.00109	5.09898	0.50490	-0.01598	0.77160
0.03511	3.23924	1.61731	-0.01092	-3.00256	0.79754	-0.00111	5.03428	0.50748	-0.01586	0.77248
0.03594	3.18112	1.61847	-0.01029	-2.98954	0.78959	-0.00113	4.94211	0.51064	-0.01571	0.77320
0.03678	3.09068	1.61900	-0.00961	-2.97004	0.78167	-0.00116	4.82112	0.51447	-0.01545	0.77319
0.03765	2.97309	1.61907	-0.00893	-2.94514	0.77317	-0.00120	4.67666	0.51893	-0.01501	0.77200
0.03854	2.83444	1.61891	-0.00823	-2.91617	0.76355	-0.00124	4.51323	0.52402	-0.01453	0.77057
0.03944	2.69581	1.61886	-0.00740	-2.88742	0.75344	-0.00128	4.35119	0.52927	-0.01422	0.77024
0.04037	2.59182	1.61910	-0.00640	-2.86537	0.74448	-0.00131	4.22728	0.53359	-0.01412	0.77116
0.04132	2.51481	1.61922	-0.00543	-2.84812	0.73660	-0.00134	4.13534	0.53701	-0.01399	0.77176
0.04229	2.43334	1.61892	-0.00473	-2.82953	0.72943	-0.00137	4.04451	0.54037	-0.01363	0.77083
0.04329	2.35406	1.61851	-0.00426	-2.81106	0.72428	-0.00140	3.96085	0.54350	-0.01314	0.76912
0.04431	2.30882	1.61841	-0.00385	-2.79905	0.72169	-0.00144	3.91209	0.54555	-0.01271	0.76771
0.04535	2.29235	1.61872	-0.00348	-2.79283	0.71990	-0.00146	3.88921	0.54680	-0.01240	0.76704

0.04642	2.26729	1.61918	-0.00325	-2.78534	0.71700	-0.00148	3.85570	0.54841	-0.01222	0.76708
0.04751	2.21485	1.61949	-0.00314	-2.77281	0.71341	-0.00151	3.79661	0.55082	-0.01205	0.76713
0.04863	2.12235	1.61937	-0.00291	-2.75245	0.70949	-0.00156	3.70287	0.55437	-0.01177	0.76642
0.04977	1.97310	1.61847	-0.00231	-2.72085	0.70401	-0.00161	3.55982	0.55967	-0.01137	0.76488
0.05094	1.78271	1.61672	-0.00144	-2.68096	0.69612	-0.00168	3.38184	0.56644	-0.01087	0.76266
0.05214	1.59511	1.61442	-0.00064	-2.64129	0.68663	-0.00173	3.20829	0.57335	-0.01033	0.76001
0.05337	1.44100	1.61196	-0.00012	-2.60785	0.67781	-0.00178	3.06659	0.57928	-0.00991	0.75807
0.05462	1.31399	1.60983	0.00026	-2.57988	0.67178	-0.00182	2.95215	0.58423	-0.00972	0.75771
0.05591	1.18599	1.60802	0.00082	-2.55228	0.66927	-0.00187	2.84244	0.58903	-0.00971	0.75869
0.05722	1.04536	1.60580	0.00176	-2.52216	0.66973	-0.00193	2.72926	0.59398	-0.00976	0.76006
0.05857	0.91449	1.60287	0.00284	-2.49291	0.67197	-0.00200	2.63109	0.59828	-0.00975	0.76131
0.05995	0.81653	1.59984	0.00354	-2.46912	0.67416	-0.00206	2.56306	0.60133	-0.00967	0.76229
0.06136	0.74835	1.59762	0.00344	-2.45130	0.67465	-0.00211	2.51749	0.60353	-0.00943	0.76237
0.06280	0.69006	1.59635	0.00264	-2.43640	0.67318	-0.00214	2.47589	0.60569	-0.00893	0.76093
0.06428	0.62921	1.59521	0.00161	-2.42142	0.67004	-0.00217	2.43100	0.60807	-0.00825	0.75835
0.06579	0.56074	1.59317	0.00078	-2.40410	0.66578	-0.00220	2.38352	0.61056	-0.00758	0.75581
0.06734	0.48207	1.58964	0.00028	-2.38347	0.66135	-0.00223	2.33246	0.61311	-0.00708	0.75424
0.06893	0.39555	1.58437	0.00003	-2.36022	0.65808	-0.00226	2.27780	0.61558	-0.00680	0.75390
0.07055	0.30635	1.57775	-0.00010	-2.33593	0.65807	-0.00230	2.22271	0.61772	-0.00674	0.75456
0.07221	0.23064	1.57138	-0.00029	-2.31483	0.66299	-0.00235	2.17885	0.61907	-0.00667	0.75498
0.07391	0.18516	1.56728	-0.00069	-2.30149	0.67191	-0.00240	2.15695	0.61935	-0.00637	0.75382
0.07565	0.15479	1.56590	-0.00107	-2.29321	0.68192	-0.00244	2.14412	0.61951	-0.00592	0.75159
0.07743	0.09257	1.56534	-0.00102	-2.27938	0.69001	-0.00249	2.10585	0.62147	-0.00556	0.74990
0.07925	-0.03112	1.56327	-0.00052	-2.25235	0.69453	-0.00256	2.02230	0.62626	-0.00535	0.74920
0.08111	-0.19828	1.55899	0.00003	-2.21506	0.69539	-0.00263	1.90856	0.63308	-0.00513	0.74845
0.08302	-0.36906	1.55325	0.00013	-2.17585	0.69344	-0.00270	1.79430	0.64021	-0.00472	0.74644
0.08498	-0.52132	1.54714	-0.00042	-2.13984	0.68917	-0.00275	1.69493	0.64666	-0.00408	0.74302
0.08697	-0.65389	1.54150	-0.00143	-2.10786	0.68252	-0.00279	1.61075	0.65246	-0.00337	0.73917
0.08902	-0.76385	1.53736	-0.00261	-2.08124	0.67407	-0.00282	1.54312	0.65755	-0.00265	0.73547
0.09112	-0.84519	1.53501	-0.00384	-2.06152	0.66568	-0.00284	1.49480	0.66153	-0.00190	0.73185
0.09326	-0.89639	1.53369	-0.00526	-2.04875	0.65961	-0.00284	1.46481	0.66406	-0.00116	0.72856
0.09545	-0.92103	1.53248	-0.00699	-2.04188	0.65793	-0.00284	1.44998	0.66504	-0.00063	0.72688
0.09770	-0.93039	1.53069	-0.00879	-2.03824	0.66233	-0.00284	1.44483	0.66470	-0.00043	0.72771
0.10000	-0.94756	1.52765	-0.01014	-2.03276	0.67223	-0.00286	1.43667	0.66410	-0.00041	0.73005
0.10235	-0.99822	1.52293	-0.01073	-2.01991	0.68375	-0.00290	1.40967	0.66477	-0.00030	0.73204
0.10476	-1.09283	1.51618	-0.01068	-1.99693	0.69210	-0.00294	1.35719	0.66762	0.00001	0.73283
0.10723	-1.21797	1.50761	-0.01049	-1.96608	0.69528	-0.00299	1.28809	0.67220	0.00051	0.73234
0.10975	-1.34885	1.49812	-0.01065	-1.93278	0.69451	-0.00303	1.21760	0.67729	0.00120	0.73008
0.11233	-1.46249	1.48884	-0.01166	-1.90259	0.69170	-0.00307	1.15787	0.68169	0.00216	0.72543
0.11498	-1.54756	1.48039	-0.01375	-1.87851	0.68815	-0.00309	1.11336	0.68478	0.00336	0.71882
0.11768	-1.60318	1.47272	-0.01673	-1.86079	0.68539	-0.00310	1.08377	0.68637	0.00450	0.71226
0.12045	-1.62901	1.46578	-0.02027	-1.84943	0.68598	-0.00310	1.07036	0.68611	0.00529	0.70765
0.12328	-1.62815	1.45986	-0.02401	-1.84389	0.69242	-0.00311	1.07397	0.68385	0.00566	0.70559
0.12619	-1.61387	1.45491	-0.02758	-1.84143	0.70554	-0.00314	1.08970	0.68018	0.00557	0.70631
0.12916	-1.60245	1.45004	-0.03085	-1.83806	0.72377	-0.00319	1.10830	0.67611	0.00498	0.71020
0.13219	-1.60075	1.44460	-0.03401	-1.83217	0.74394	-0.00325	1.12340	0.67233	0.00406	0.71625
0.13531	-1.60961	1.43889	-0.03729	-1.82425	0.76232	-0.00331	1.13187	0.66925	0.00319	0.72207
0.13849	-1.63049	1.43332	-0.04068	-1.81457	0.77524	-0.00335	1.13132	0.66730	0.00266	0.72587
0.14175	-1.66763	1.42788	-0.04400	-1.80217	0.78060	-0.00337	1.11882	0.66690	0.00249	0.72738
0.14508	-1.72448	1.42261	-0.04711	-1.78630	0.77898	-0.00337	1.09258	0.66834	0.00264	0.72683
0.14850	-1.79346	1.41799	-0.05010	-1.76895	0.77286	-0.00336	1.05740	0.67112	0.00309	0.72440
0.15199	-1.85818	1.41416	-0.05317	-1.75368	0.76473	-0.00333	1.02266	0.67407	0.00372	0.72072
0.15557	-1.90481	1.41086	-0.05643	-1.74308	0.75587	-0.00329	0.99595	0.67610	0.00442	0.71662
0.15923	-1.93252	1.40756	-0.05987	-1.73676	0.74682	-0.00324	0.97811	0.67691	0.00512	0.71263
0.16298	-1.95137	1.40356	-0.06333	-1.73185	0.73806	-0.00318	0.96509	0.67688	0.00578	0.70904
0.16681	-1.97172	1.39852	-0.06665	-1.72564	0.73033	-0.00313	0.95371	0.67636	0.00638	0.70590
0.17074	-2.00134	1.39234	-0.06967	-1.71627	0.72433	-0.00310	0.94117	0.67573	0.00687	0.70344
0.17475	-2.03696	1.38494	-0.07251	-1.70416	0.72076	-0.00308	0.92927	0.67474	0.00714	0.70240
0.17887	-2.06734	1.37676	-0.07543	-1.69196	0.72079	-0.00307	0.92342	0.67271	0.00714	0.70336
0.18307	-2.08216	1.36887	-0.07863	-1.68287	0.72583	-0.00307	0.92908	0.66902	0.00695	0.70605
0.18738	-2.08155	1.36223	-0.08214	-1.67795	0.73602	-0.00308	0.94625	0.66383	0.00666	0.70964
0.19179	-2.07795	1.35712	-0.08573	-1.67522	0.74984	-0.00310	0.96759	0.65826	0.00633	0.71355
0.19631	-2.08444	1.35340	-0.08918	-1.67197	0.76531	-0.00312	0.98491	0.65343	0.00594	0.71762
0.20092	-2.10613	1.35081	-0.09241	-1.66683	0.78100	-0.00316	0.99447	0.64981	0.00544	0.72225
0.20565	-2.13749	1.34922	-0.09552	-1.66060	0.79620	-0.00320	0.99917	0.64707	0.00476	0.72806
0.21049	-2.16830	1.34854	-0.09870	-1.65516	0.81050	-0.00323	1.00486	0.64446	0.00394	0.73497
0.21544	-2.19187	1.34840	-0.10204	-1.65160	0.82337	-0.00326	1.01492	0.64151	0.00304	0.74260
0.22051	-2.20203	1.34850	-0.10561	-1.65098	0.83467	-0.00327	1.03258	0.63774	0.00207	0.75075
0.22570	-2.19756	1.34884	-0.10947	-1.65366	0.84419	-0.00326	1.05898	0.63304	0.00118	0.75841
0.23101	-2.18471	1.34951	-0.11359	-1.65853	0.85165	-0.00324	1.09093	0.62785	0.00062	0.76379
0.23645	-2.18055	1.35000	-0.11786	-1.66174	0.85605	-0.00322	1.11774	0.62328	0.00059	0.76553
0.24201	-2.19727	1.34983	-0.12212	-1.66041	0.85711	-0.00320	1.13055	0.62015	0.00106	0.76366
0.24771	-2.23387	1.34884	-0.12634	-1.65461	0.85583	-0.00317	1.12998	0.61827	0.00185	0.75954
0.25354	-2.28589	1.34712	-0.13056	-1.64527	0.85314	-0.00316	1.11901	0.61729	0.00265	0.75526
0.25950	-2.35069	1.34506	-0.13481	-1.63330	0.84934	-0.00314	1.09927	0.61715	0.00323	0.75254
0.26561	-2.42959	1.34343	-0.13897	-1.61924	0.84429	-0.00313	1.06918	0.61827	0.00354	0.75166
0.27186	-2.52400	1.34259	-0.14295	-1.60324	0.83744	-0.00311	1.02740	0.62099	0.00368	0.75190
0.27826	-2.63035	1.34224	-0.14675	-1.58579	0.82856	-0.00310	0.97691	0.62502	0.00377	0.75228
0.28480	-2.73792	1.34193	-0.15043	-1.56859	0.81908	-0.00308	0.92604	0.62929	0.00386	0.75224
0.29150	-2.83867	1.34143	-0.15410	-1.55288	0.81091	-0.00306	0.88150	0.63276	0.00400	0.75155
0.29836	-2.92781	1.34047	-0.15795	-1.53926	0.80506	-0.00304	0.84697	0.63472	0.00415	0.75061

0.30539	-3.00500	1.33899	-0.16210	-1.52764	0.80093	-0.00302	0.82254	0.63500	0.00429	0.74968
0.31257	-3.06975	1.33716	-0.16664	-1.51816	0.79792	-0.00299	0.80810	0.63361	0.00448	0.74857
0.31993	-3.12476	1.33534	-0.17155	-1.51061	0.79583	-0.00296	0.80169	0.63089	0.00478	0.74690
0.32745	-3.17176	1.33394	-0.17670	-1.50495	0.79468	-0.00293	0.80233	0.62710	0.00526	0.74420
0.33517	-3.20814	1.33304	-0.18205	-1.50185	0.79490	-0.00289	0.81144	0.62208	0.00583	0.74107
0.34304	-3.22458	1.33288	-0.18751	-1.50340	0.79804	-0.00285	0.83499	0.61508	0.00633	0.73855
0.35112	-3.21181	1.33359	-0.19311	-1.51156	0.80566	-0.00280	0.88043	0.60527	0.00666	0.73750
0.35938	-3.16793	1.33505	-0.19878	-1.52656	0.81808	-0.00276	0.95049	0.59285	0.00675	0.73837
0.36784	-3.09881	1.33705	-0.20434	-1.54697	0.83416	-0.00271	1.04413	0.57855	0.00660	0.74111
0.37649	-3.01724	1.33910	-0.20962	-1.56969	0.85155	-0.00266	1.15439	0.56366	0.00625	0.74550
0.38536	-2.93621	1.34060	-0.21461	-1.59143	0.86795	-0.00261	1.27192	0.54931	0.00575	0.75115
0.39442	-2.87013	1.34128	-0.21924	-1.60893	0.88131	-0.00256	1.38439	0.53651	0.00522	0.75714
0.40370	-2.82583	1.34133	-0.22353	-1.62088	0.89102	-0.00252	1.48477	0.52556	0.00480	0.76251
0.41321	-2.79719	1.34120	-0.22750	-1.62904	0.89846	-0.00248	1.57615	0.51602	0.00455	0.76683
0.42292	-2.77886	1.34138	-0.23111	-1.63497	0.90478	-0.00244	1.66182	0.50760	0.00447	0.77007
0.43288	-2.77078	1.34228	-0.23432	-1.63915	0.91067	-0.00241	1.74184	0.50020	0.00455	0.77211
0.44307	-2.76816	1.34414	-0.23722	-1.64276	0.91695	-0.00240	1.81998	0.49356	0.00480	0.77310
0.45349	-2.76605	1.34682	-0.23990	-1.64664	0.92401	-0.00238	1.90040	0.48741	0.00511	0.77365
0.46417	-2.76104	1.35003	-0.24244	-1.65111	0.93171	-0.00238	1.98787	0.48137	0.00539	0.77462
0.47508	-2.75274	1.35375	-0.24484	-1.65627	0.94029	-0.00238	2.08385	0.47533	0.00557	0.77638
0.48626	-2.74337	1.35780	-0.24716	-1.66161	0.94965	-0.00239	2.18466	0.46949	0.00562	0.77914
0.49771	-2.73047	1.36211	-0.24948	-1.66763	0.95971	-0.00240	2.29124	0.46384	0.00553	0.78298
0.50942	-2.71844	1.36673	-0.25178	-1.67364	0.96967	-0.00241	2.39841	0.45860	0.00538	0.78735
0.52140	-2.71519	1.37172	-0.25405	-1.67819	0.97842	-0.00242	2.49582	0.45416	0.00527	0.79156
0.53367	-2.72918	1.37692	-0.25636	-1.67960	0.98528	-0.00244	2.56931	0.45102	0.00528	0.79493
0.54624	-2.75735	1.38238	-0.25880	-1.67866	0.99061	-0.00246	2.61950	0.44910	0.00547	0.79709
0.55910	-2.80223	1.38826	-0.26126	-1.67519	0.99464	-0.00249	2.64254	0.44845	0.00583	0.79797
0.57225	-2.87527	1.39403	-0.26376	-1.66651	0.99552	-0.00251	2.62398	0.44943	0.00628	0.79811
0.58569	-2.97948	1.39931	-0.26631	-1.65170	0.99204	-0.00254	2.56031	0.45213	0.00676	0.79808
0.59948	-3.11327	1.40390	-0.26899	-1.63097	0.98427	-0.00256	2.45371	0.45655	0.00721	0.79842
0.61357	-3.27214	1.40813	-0.27174	-1.60557	0.97340	-0.00258	2.31229	0.46268	0.00765	0.79912
0.62802	-3.43957	1.41237	-0.27456	-1.57921	0.96033	-0.00260	2.16247	0.46949	0.00801	0.80062
0.64280	-3.60940	1.41684	-0.27741	-1.55332	0.94603	-0.00261	2.01573	0.47641	0.00830	0.80277
0.65794	-3.77638	1.42185	-0.28033	-1.52923	0.93044	-0.00262	1.88016	0.48306	0.00845	0.80602
0.67340	-3.93602	1.42675	-0.28346	-1.50710	0.91387	-0.00261	1.76075	0.48891	0.00835	0.81129
0.68927	-4.09367	1.43130	-0.28677	-1.48561	0.89673	-0.00260	1.65211	0.49415	0.00799	0.81851
0.70547	-4.25296	1.43573	-0.29018	-1.46428	0.87961	-0.00259	1.55075	0.49897	0.00745	0.82706
0.72207	-4.41951	1.44040	-0.29361	-1.44233	0.86359	-0.00259	1.45313	0.50354	0.00683	0.83597
0.73910	-4.59895	1.44482	-0.29722	-1.41811	0.84771	-0.00260	1.35388	0.50807	0.00628	0.84401
0.75649	-4.78495	1.44918	-0.30116	-1.39306	0.83244	-0.00261	1.25875	0.51221	0.00590	0.85029
0.77429	-4.97389	1.45362	-0.30538	-1.36812	0.81755	-0.00262	1.17036	0.51578	0.00574	0.85396
0.79246	-5.15957	1.45816	-0.30976	-1.34464	0.80321	-0.00263	1.09292	0.51838	0.00582	0.85484
0.81116	-5.33920	1.46318	-0.31427	-1.32355	0.79046	-0.00264	1.02963	0.51958	0.00611	0.85310
0.83022	-5.50803	1.46856	-0.31887	-1.30547	0.77965	-0.00265	0.98325	0.51889	0.00666	0.84876
0.84976	-5.66298	1.47450	-0.32354	-1.29124	0.77092	-0.00266	0.95738	0.51563	0.00747	0.84199
0.86972	-5.80313	1.48088	-0.32812	-1.28096	0.76381	-0.00266	0.95250	0.50953	0.00850	0.83342
0.89023	-5.92750	1.48756	-0.33265	-1.27465	0.75788	-0.00265	0.97020	0.50042	0.00965	0.82416
0.91116	-6.03773	1.49435	-0.33701	-1.27161	0.75340	-0.00263	1.00796	0.48890	0.01081	0.81520
0.93257	-6.13812	1.50106	-0.34118	-1.27074	0.75027	-0.00261	1.06202	0.47572	0.01195	0.80691
0.95456	-6.23342	1.50757	-0.34522	-1.27087	0.74808	-0.00259	1.12845	0.46156	0.01310	0.79912
0.97704	-6.32491	1.51376	-0.34910	-1.27155	0.74641	-0.00257	1.20619	0.44670	0.01427	0.79178
1.00000	-6.41254	1.51980	-0.35272	-1.27297	0.74532	-0.00255	1.29713	0.43114	0.01543	0.78481
1.02354	-6.49511	1.52602	-0.35603	-1.27582	0.74574	-0.00253	1.40614	0.41473	0.01657	0.77823
1.04767	-6.57116	1.53270	-0.35898	-1.28068	0.74865	-0.00251	1.53778	0.39749	0.01766	0.77213
1.07227	-6.64278	1.53981	-0.36147	-1.28702	0.75361	-0.00249	1.69033	0.37998	0.01871	0.76633
1.09745	-6.71272	1.54714	-0.36356	-1.29395	0.75977	-0.00247	1.86162	0.36254	0.01978	0.76064
1.12334	-6.78386	1.55441	-0.36530	-1.30063	0.76623	-0.00245	2.04788	0.34545	0.02087	0.75497
1.14982	-6.85718	1.56137	-0.36673	-1.30654	0.77244	-0.00243	2.24453	0.32897	0.02199	0.74924
1.17675	-6.93478	1.56798	-0.36785	-1.31107	0.77818	-0.00242	2.44486	0.31338	0.02314	0.74330
1.20453	-7.02025	1.57440	-0.36875	-1.31375	0.78296	-0.00240	2.64587	0.29860	0.02435	0.73701
1.23289	-7.11190	1.58080	-0.36941	-1.31490	0.78728	-0.00239	2.84555	0.28470	0.02555	0.73062
1.26183	-7.20836	1.58740	-0.36984	-1.31508	0.79137	-0.00238	3.04462	0.27159	0.02667	0.72452
1.29149	-7.30939	1.59442	-0.37001	-1.31463	0.79551	-0.00237	3.24397	0.25917	0.02766	0.71904
1.32188	-7.41540	1.60190	-0.36993	-1.31349	0.79948	-0.00236	3.44062	0.24750	0.02850	0.71440
1.35300	-7.52569	1.60979	-0.36965	-1.31171	0.80326	-0.00235	3.63394	0.23653	0.02921	0.71067
1.38485	-7.64017	1.61795	-0.36921	-1.30914	0.80660	-0.00235	3.82110	0.22628	0.02981	0.70785
1.41743	-7.75631	1.62621	-0.36865	-1.30617	0.80984	-0.00234	4.00446	0.21666	0.03031	0.70602
1.45075	-7.87295	1.63446	-0.36802	-1.30293	0.81296	-0.00234	4.18332	0.20766	0.03072	0.70525
1.48500	-7.99070	1.64265	-0.36735	-1.29934	0.81589	-0.00234	4.35589	0.19926	0.03104	0.70554
1.51999	-8.10824	1.65075	-0.36664	-1.29558	0.81872	-0.00234	4.52057	0.19151	0.03126	0.70692
1.55569	-8.22558	1.65884	-0.36589	-1.29173	0.82146	-0.00233	4.67630	0.18441	0.03139	0.70935
1.59236	-8.34424	1.66711	-0.36507	-1.28774	0.82412	-0.00233	4.82207	0.17793	0.03143	0.71278
1.62973	-8.46407	1.67565	-0.36417	-1.28364	0.82665	-0.00233	4.95541	0.17212	0.03138	0.71712
1.66806	-8.58662	1.68463	-0.36315	-1.27937	0.82894	-0.00233	5.07578	0.16694	0.03124	0.72230
1.70736	-8.71165	1.69413	-0.36201	-1.27504	0.83114	-0.00233	5.18442	0.16233	0.03102	0.72826
1.74764	-8.83938	1.70417	-0.36073	-1.27065	0.83322	-0.00233	5.28055	0.15829	0.03073	0.73495
1.78859	-8.96868	1.71463	-0.35935	-1.26620	0.83514	-0.00234	5.36329	0.15480	0.03038	0.74226
1.83083	-9.10106	1.72559	-0.35785	-1.26165	0.83692	-0.00234	5.43393	0.15180	0.02997	0.75025
1.87371	-9.23412	1.73676	-0.35628	-1.25704	0.83850	-0.00234	5.49091	0.14929	0.02951	0.75876
1.91791	-9.36919	1.74821	-0.35464	-1.25233	0.83992	-0.00234	5.53606	0.14721	0.02902	0.76780
1.96309	-9.50434	1.75972	-0.35296	-1.24764	0.84120	-0.00234	5.57033	0.14554	0.02850	0.77714

2.00924	-9.63888	1.77121	-0.35127	-1.24301	0.84239	-0.00234	5.59502	0.14424	0.02798	0.78661
2.05634	-9.77246	1.78260	-0.34957	-1.23844	0.84348	-0.00234	5.61088	0.14327	0.02745	0.79601
2.10482	-9.90600	1.79397	-0.34785	-1.23393	0.84452	-0.00234	5.61899	0.14259	0.02693	0.80522
2.15424	-10.03830	1.80523	-0.34612	-1.22953	0.84551	-0.00234	5.61989	0.14219	0.02642	0.81395
2.20507	-10.17070	1.81651	-0.34434	-1.22522	0.84648	-0.00234	5.61420	0.14206	0.02592	0.82216
2.25683	-10.30218	1.82777	-0.34252	-1.22103	0.84744	-0.00234	5.60241	0.14218	0.02542	0.82982
2.31000	-10.43434	1.83917	-0.34062	-1.21690	0.84840	-0.00234	5.58466	0.14252	0.02493	0.83710
2.36463	-10.56750	1.85077	-0.33863	-1.21284	0.84937	-0.00234	5.56135	0.14309	0.02442	0.84413
2.42014	-10.70048	1.86249	-0.33656	-1.20888	0.85036	-0.00234	5.53345	0.14383	0.02391	0.85096
2.47709	-10.83464	1.87448	-0.33436	-1.20501	0.85140	-0.00234	5.50162	0.14474	0.02337	0.85782
2.53550	-10.97006	1.88675	-0.33205	-1.20122	0.85249	-0.00234	5.46636	0.14580	0.02283	0.86487
2.59471	-11.10533	1.89918	-0.32964	-1.19754	0.85361	-0.00234	5.42833	0.14699	0.02226	0.87218
2.65604	-11.24313	1.91199	-0.32707	-1.19392	0.85480	-0.00234	5.38776	0.14829	0.02168	0.87995
2.71887	-11.38188	1.92506	-0.32439	-1.19039	0.85606	-0.00234	5.34544	0.14969	0.02108	0.88815
2.78242	-11.51967	1.93817	-0.32163	-1.18701	0.85736	-0.00234	5.30267	0.15113	0.02047	0.89672
2.84819	-11.65914	1.95152	-0.31871	-1.18374	0.85877	-0.00234	5.25957	0.15264	0.01986	0.90591
2.91545	-11.79878	1.96505	-0.31573	-1.18059	0.86025	-0.00234	5.21628	0.15420	0.01924	0.91566
2.98329	-11.93586	1.97834	-0.31265	-1.17769	0.86182	-0.00234	5.17493	0.15575	0.01863	0.92572
3.05344	-12.07413	1.99186	-0.30952	-1.17488	0.86346	-0.00233	5.13364	0.15734	0.01803	0.93609
3.12598	-12.21306	2.00543	-0.30622	-1.17225	0.86523	-0.00233	5.09333	0.15896	0.01744	0.94657
3.19898	-12.34903	2.01874	-0.30296	-1.16974	0.86699	-0.00233	5.05435	0.16055	0.01688	0.95657
3.27439	-12.48551	2.03207	-0.29955	-1.16739	0.86884	-0.00233	5.01617	0.16216	0.01635	0.96608
3.35121	-12.62039	2.04522	-0.29616	-1.16514	0.87070	-0.00233	4.97896	0.16376	0.01584	0.97480
3.43053	-12.75571	2.05837	-0.29261	-1.16303	0.87264	-0.00233	4.94232	0.16538	0.01535	0.98310
3.51124	-12.88937	2.07133	-0.28911	-1.16099	0.87455	-0.00233	4.90637	0.16697	0.01489	0.99111
3.59324	-13.02107	2.08399	-0.28547	-1.15915	0.87652	-0.00233	4.87194	0.16856	0.01445	0.99920
3.67782	-13.15370	2.09683	-0.28190	-1.15725	0.87845	-0.00232	4.83685	0.17014	0.01401	1.00779
3.76506	-13.28548	2.10932	-0.27804	-1.15563	0.88049	-0.00232	4.80399	0.17173	0.01357	1.01736
3.85356	-13.41743	2.12213	-0.27439	-1.15387	0.88242	-0.00232	4.76965	0.17330	0.01314	1.02759
3.94477	-13.54726	2.13427	-0.27038	-1.15245	0.88449	-0.00232	4.73889	0.17484	0.01271	1.03854
4.03714	-13.67810	2.14695	-0.26656	-1.15091	0.88646	-0.00231	4.70612	0.17640	0.01230	1.04965
4.13223	-13.80715	2.15912	-0.26258	-1.14954	0.88849	-0.00231	4.67611	0.17789	0.01189	1.06088
4.23012	-13.93726	2.17139	-0.25835	-1.14833	0.89058	-0.00231	4.64646	0.17942	0.01149	1.07191
4.32900	-14.06756	2.18407	-0.25448	-1.14688	0.89249	-0.00230	4.61526	0.18089	0.01112	1.08208
4.43066	-14.19391	2.19563	-0.25005	-1.14592	0.89461	-0.00230	4.58951	0.18231	0.01075	1.09171
4.53515	-14.32537	2.20839	-0.24582	-1.14472	0.89661	-0.00230	4.55999	0.18378	0.01039	1.10064
4.64253	-14.45546	2.22082	-0.24164	-1.14350	0.89857	-0.00229	4.53230	0.18515	0.01006	1.10891
4.75059	-14.58018	2.23213	-0.23690	-1.14283	0.90071	-0.00229	4.50975	0.18648	0.00972	1.11659
4.86145	-14.71182	2.24518	-0.23267	-1.14165	0.90262	-0.00228	4.48153	0.18785	0.00941	1.12359
4.97760	-14.84164	2.25739	-0.22819	-1.14064	0.90460	-0.00228	4.45720	0.18911	0.00910	1.13028
5.09424	-14.96639	2.26858	-0.22314	-1.14019	0.90678	-0.00227	4.43765	0.19035	0.00879	1.13654
5.21376	-15.09965	2.28193	-0.21875	-1.13909	0.90864	-0.00227	4.41111	0.19163	0.00850	1.14228
5.33618	-15.22735	2.29402	-0.21431	-1.13815	0.91050	-0.00226	4.38896	0.19276	0.00823	1.14775
5.46150	-15.34941	2.30456	-0.20896	-1.13797	0.91270	-0.00226	4.37364	0.19386	0.00793	1.15326
5.58971	-15.48157	2.31761	-0.20423	-1.13715	0.91460	-0.00225	4.35064	0.19505	0.00765	1.15853
5.72082	-15.61295	2.33070	-0.20002	-1.13598	0.91626	-0.00225	4.32694	0.19611	0.00741	1.16373
5.85823	-15.73378	2.34065	-0.19449	-1.13597	0.91844	-0.00224	4.31500	0.19708	0.00712	1.16953
5.99520	-15.85940	2.35218	-0.18917	-1.13573	0.92048	-0.00224	4.29879	0.19814	0.00684	1.17528
6.13497	-15.99440	2.36625	-0.18493	-1.13455	0.92204	-0.00223	4.27437	0.19919	0.00660	1.18088
6.28141	-16.11862	2.37742	-0.18020	-1.13398	0.92382	-0.00222	4.25871	0.20006	0.00636	1.18692
6.42674	-16.23124	2.38613	-0.17440	-1.13442	0.92598	-0.00222	4.25154	0.20092	0.00607	1.19325
6.57895	-16.35997	2.39830	-0.16910	-1.13413	0.92787	-0.00221	4.23537	0.20190	0.00581	1.19966
6.73401	-16.49732	2.41291	-0.16507	-1.13285	0.92924	-0.00220	4.21133	0.20284	0.00560	1.20587
6.89180	-16.61340	2.42267	-0.16032	-1.13259	0.93094	-0.00220	4.20027	0.20356	0.00537	1.21244
7.05716	-16.72407	2.43042	-0.15410	-1.13339	0.93314	-0.00219	4.19689	0.20433	0.00508	1.21957
7.22022	-16.84526	2.44138	-0.14878	-1.13340	0.93494	-0.00219	4.18471	0.20518	0.00483	1.22616
7.39098	-16.98333	2.45620	-0.14465	-1.13226	0.93623	-0.00217	4.16236	0.20605	0.00464	1.23234
7.56430	-17.10496	2.46759	-0.14071	-1.13145	0.93752	-0.00217	4.14721	0.20669	0.00446	1.23827
7.73994	-17.20065	2.47270	-0.13471	-1.13259	0.93958	-0.00216	4.14914	0.20728	0.00418	1.24443
7.92393	-17.31319	2.48128	-0.12881	-1.13324	0.94151	-0.00216	4.14378	0.20801	0.00392	1.25015
8.11030	-17.43851	2.49319	-0.12380	-1.13306	0.94305	-0.00215	4.13048	0.20878	0.00370	1.25510
8.29876	-17.57694	2.50877	-0.12048	-1.13158	0.94396	-0.00214	4.10760	0.20948	0.00357	1.25915
8.49618	-17.68699	2.51750	-0.11634	-1.13134	0.94527	-0.00213	4.09943	0.20997	0.00339	1.26344
8.69565	-17.77245	2.52024	-0.10998	-1.13304	0.94736	-0.00213	4.10600	0.21051	0.00310	1.26824
8.90472	-17.88205	2.52820	-0.10417	-1.13380	0.94914	-0.00212	4.10211	0.21116	0.00285	1.27269
9.11577	-17.99995	2.53847	-0.09900	-1.13403	0.95065	-0.00211	4.09338	0.21182	0.00263	1.27683
9.32836	-18.14011	2.55451	-0.09557	-1.13274	0.95148	-0.00210	4.07278	0.21243	0.00252	1.28036
9.54198	-18.26117	2.56684	-0.09292	-1.13148	0.95216	-0.00209	4.05787	0.21278	0.00243	1.28399
9.76563	-18.33390	2.56720	-0.08723	-1.13324	0.95400	-0.00208	4.06606	0.21323	0.00215	1.28937
10.00000	-18.42062	2.57008	-0.08083	-1.13498	0.95593	-0.00208	4.07133	0.21378	0.00185	1.29548

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Low stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 61 - 152 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.72752	3.37025	-0.04400	-1.67857	1.03624	-0.00104	1.14327	0.46045	-0.00941	0.29138
PGV	1.38948	1.79293	-0.11105	-2.25335	1.26575	-0.00182	4.14798	0.39248	-0.01292	0.44314
PGA	0.40199	1.56543	-0.06029	-2.53471	1.03607	-0.00205	3.66652	0.50362	-0.03460	0.77040
0.01000	0.94131	1.58199	-0.05934	-2.64493	1.04383	-0.00193	4.23879	0.48998	-0.02223	0.76538
0.01024	0.95118	1.58447	-0.05859	-2.64814	1.03941	-0.00192	4.24149	0.49084	-0.02229	0.76589
0.01048	0.96436	1.58692	-0.05786	-2.65196	1.03522	-0.00191	4.24729	0.49159	-0.02236	0.76640
0.01072	0.98096	1.58935	-0.05714	-2.65641	1.03124	-0.00190	4.25631	0.49224	-0.02245	0.76695
0.01097	1.00161	1.59177	-0.05642	-2.66160	1.02747	-0.00188	4.26931	0.49275	-0.02255	0.76756
0.01123	1.02650	1.59419	-0.05570	-2.66757	1.02386	-0.00187	4.28652	0.49314	-0.02266	0.76822
0.01150	1.05481	1.59661	-0.05499	-2.67416	1.02037	-0.00185	4.30702	0.49343	-0.02278	0.76891
0.01177	1.08600	1.59902	-0.05428	-2.68127	1.01694	-0.00184	4.33016	0.49365	-0.02291	0.76962
0.01205	1.12016	1.60144	-0.05357	-2.68892	1.01358	-0.00182	4.35607	0.49378	-0.02305	0.77034
0.01233	1.15809	1.60386	-0.05286	-2.69724	1.01032	-0.00180	4.38571	0.49382	-0.02320	0.77105
0.01262	1.19961	1.60630	-0.05215	-2.70623	1.00715	-0.00178	4.41891	0.49376	-0.02334	0.77174
0.01292	1.24401	1.60875	-0.05143	-2.71574	1.00409	-0.00176	4.45491	0.49363	-0.02348	0.77241
0.01322	1.29171	1.61121	-0.05072	-2.72586	1.00115	-0.00175	4.49430	0.49341	-0.02364	0.77310
0.01353	1.34309	1.61367	-0.05001	-2.73663	0.99826	-0.00172	4.53764	0.49309	-0.02380	0.77386
0.01385	1.39751	1.61614	-0.04931	-2.74792	0.99537	-0.00170	4.58407	0.49271	-0.02397	0.77465
0.01417	1.45424	1.61863	-0.04860	-2.75961	0.99245	-0.00168	4.63251	0.49229	-0.02414	0.77545
0.01451	1.51384	1.62115	-0.04786	-2.77181	0.98949	-0.00166	4.68369	0.49183	-0.02431	0.77632
0.01485	1.57720	1.62372	-0.04711	-2.78467	0.98646	-0.00164	4.73859	0.49130	-0.02450	0.77729
0.01520	1.64353	1.62637	-0.04633	-2.79811	0.98340	-0.00161	4.79597	0.49075	-0.02469	0.77833
0.01556	1.71138	1.62909	-0.04554	-2.81187	0.98038	-0.00159	4.85394	0.49021	-0.02489	0.77948
0.01592	1.78168	1.63186	-0.04473	-2.82610	0.97743	-0.00157	4.91387	0.48964	-0.02511	0.78088
0.01630	1.85214	1.63463	-0.04390	-2.84029	0.97429	-0.00154	4.97343	0.48911	-0.02537	0.78253
0.01668	1.91957	1.63739	-0.04304	-2.85384	0.97087	-0.00152	5.02864	0.48871	-0.02564	0.78432
0.01707	1.98693	1.64018	-0.04216	-2.86739	0.96743	-0.00150	5.08278	0.48836	-0.02591	0.78617
0.01748	2.06000	1.64307	-0.04129	-2.88203	0.96417	-0.00147	5.14282	0.48790	-0.02617	0.78802
0.01789	2.13783	1.64603	-0.04041	-2.89755	0.96102	-0.00145	5.20777	0.48735	-0.02643	0.78992
0.01831	2.21778	1.64903	-0.03950	-2.91347	0.95778	-0.00142	5.27433	0.48678	-0.02673	0.79199
0.01874	2.29571	1.65202	-0.03855	-2.92893	0.95425	-0.00140	5.33750	0.48633	-0.02703	0.79414
0.01918	2.36863	1.65497	-0.03757	-2.94337	0.95037	-0.00137	5.39378	0.48606	-0.02730	0.79606
0.01963	2.43852	1.65790	-0.03659	-2.95717	0.94634	-0.00135	5.44572	0.48590	-0.02755	0.79786
0.02009	2.50947	1.66083	-0.03564	-2.97110	0.94229	-0.00133	5.49891	0.48572	-0.02782	0.79981
0.02057	2.58687	1.66383	-0.03470	-2.98616	0.93829	-0.00130	5.56012	0.48540	-0.02811	0.80188
0.02105	2.67254	1.66699	-0.03373	-3.00281	0.93436	-0.00128	5.63059	0.48493	-0.02840	0.80393
0.02154	2.75999	1.67031	-0.03271	-3.01983	0.93038	-0.00125	5.70187	0.48448	-0.02867	0.80586
0.02205	2.84089	1.67361	-0.03163	-3.03558	0.92607	-0.00123	5.76421	0.48425	-0.02890	0.80749
0.02257	2.91232	1.67683	-0.03052	-3.04940	0.92119	-0.00121	5.81413	0.48431	-0.02907	0.80878
0.02310	2.97654	1.68004	-0.02935	-3.06173	0.91563	-0.00119	5.85380	0.48463	-0.02923	0.80996
0.02364	3.03200	1.68326	-0.02812	-3.07234	0.90927	-0.00117	5.88088	0.48526	-0.02941	0.81133
0.02420	3.07251	1.68642	-0.02682	-3.08017	0.90244	-0.00115	5.88855	0.48629	-0.02965	0.81301
0.02477	3.10231	1.68945	-0.02552	-3.08593	0.89574	-0.00114	5.88404	0.48753	-0.02992	0.81491
0.02535	3.12998	1.69232	-0.02432	-3.09115	0.88949	-0.00113	5.87933	0.48872	-0.03019	0.81686
0.02595	3.15863	1.69511	-0.02322	-3.09650	0.88390	-0.00112	5.87733	0.48981	-0.03045	0.81880
0.02656	3.18311	1.69800	-0.02210	-3.10120	0.87851	-0.00112	5.86919	0.49103	-0.03072	0.82079
0.02719	3.20106	1.70105	-0.02089	-3.10473	0.87255	-0.00111	5.85086	0.49251	-0.03100	0.82292
0.02783	3.21293	1.70427	-0.01957	-3.10707	0.86553	-0.00111	5.82281	0.49430	-0.03128	0.82514
0.02848	3.21673	1.70758	-0.01817	-3.10779	0.85742	-0.00111	5.78369	0.49640	-0.03157	0.82756
0.02915	3.21920	1.71100	-0.01679	-3.10813	0.84858	-0.00110	5.74326	0.49861	-0.03190	0.83026
0.02984	3.22234	1.71444	-0.01547	-3.10849	0.83944	-0.00110	5.70437	0.50081	-0.03224	0.83315
0.03054	3.21100	1.71775	-0.01415	-3.10615	0.83025	-0.00110	5.64887	0.50334	-0.03259	0.83607
0.03126	3.17353	1.72085	-0.01273	-3.09898	0.82073	-0.00111	5.56293	0.50652	-0.03292	0.83895
0.03199	3.11450	1.72383	-0.01115	-3.08789	0.81087	-0.00112	5.45206	0.51027	-0.03319	0.84153
0.03275	3.04915	1.72672	-0.00954	-3.07562	0.80132	-0.00113	5.33602	0.51416	-0.03339	0.84373
0.03352	2.99394	1.72955	-0.00803	-3.06506	0.79248	-0.00115	5.23518	0.51773	-0.03353	0.84558
0.03430	2.94515	1.73234	-0.00655	-3.05560	0.78434	-0.00116	5.14432	0.52107	-0.03359	0.84688
0.03511	2.89813	1.73512	-0.00504	-3.04641	0.77694	-0.00118	5.05803	0.52432	-0.03358	0.84775
0.03594	2.85258	1.73779	-0.00355	-3.03734	0.77017	-0.00120	4.97658	0.52745	-0.03359	0.84877
0.03678	2.79767	1.74017	-0.00203	-3.02624	0.76308	-0.00122	4.88801	0.53078	-0.03369	0.85032
0.03765	2.71910	1.74229	-0.00040	-3.01065	0.75522	-0.00124	4.77578	0.53476	-0.03386	0.85240
0.03854	2.61960	1.74446	0.00126	-2.99135	0.74699	-0.00127	4.64282	0.53937	-0.03404	0.85456
0.03944	2.51013	1.74683	0.00291	-2.97029	0.73839	-0.00131	4.50189	0.54436	-0.03415	0.85638
0.04037	2.40685	1.74931	0.00447	-2.95008	0.72888	-0.00134	4.37074	0.54930	-0.03420	0.85792
0.04132	2.32220	1.75197	0.00584	-2.93302	0.71853	-0.00136	4.26079	0.55384	-0.03422	0.85925
0.04229	2.23616	1.75480	0.00715	-2.91574	0.70800	-0.00139	4.15097	0.55850	-0.03421	0.86032
0.04329	2.12363	1.75758	0.00864	-2.89370	0.69750	-0.00142	4.01886	0.56393	-0.03419	0.86125
0.04431	1.98868	1.76002	0.01023	-2.86725	0.68660	-0.00146	3.87217	0.56994	-0.03419	0.86219
0.04535	1.84052	1.76202	0.01177	-2.83814	0.67559	-0.00150	3.71948	0.57625	-0.03416	0.86291

0.04642	1.68596	1.76347	0.01330	-2.80788	0.66549	-0.00154	3.56492	0.58268	-0.03410	0.86331
0.04751	1.53638	1.76432	0.01492	-2.77825	0.65660	-0.00159	3.41942	0.58888	-0.03407	0.86378
0.04863	1.39220	1.76494	0.01661	-2.74930	0.64828	-0.00163	3.28358	0.59491	-0.03412	0.86467
0.04977	1.23743	1.76581	0.01834	-2.71869	0.63977	-0.00168	3.14155	0.60146	-0.03420	0.86581
0.05094	1.06984	1.76698	0.02013	-2.68623	0.63087	-0.00172	2.99090	0.60867	-0.03430	0.86708
0.05214	0.89649	1.76813	0.02205	-2.65289	0.62224	-0.00177	2.83947	0.61619	-0.03446	0.86868
0.05337	0.72881	1.76927	0.02399	-2.62060	0.61495	-0.00182	2.69822	0.62354	-0.03466	0.87044
0.05462	0.57970	1.77052	0.02575	-2.59170	0.60917	-0.00187	2.57713	0.63020	-0.03481	0.87196
0.05591	0.44816	1.77143	0.02716	-2.56560	0.60374	-0.00191	2.47403	0.63615	-0.03493	0.87348
0.05722	0.31764	1.77162	0.02837	-2.53915	0.59768	-0.00196	2.37456	0.64202	-0.03502	0.87487
0.05857	0.18175	1.77123	0.02959	-2.51132	0.59129	-0.00200	2.27374	0.64812	-0.03504	0.87609
0.05995	0.05038	1.77074	0.03072	-2.48414	0.58535	-0.00204	2.17905	0.65411	-0.03511	0.87775
0.06136	-0.07736	1.77038	0.03167	-2.45771	0.58047	-0.00208	2.08996	0.65998	-0.03526	0.88021
0.06280	-0.20311	1.76986	0.03268	-2.43130	0.57679	-0.00213	2.00717	0.66565	-0.03556	0.88373
0.06428	-0.30949	1.76942	0.03389	-2.40789	0.57411	-0.00218	1.94253	0.67042	-0.03589	0.88752
0.06579	-0.39244	1.76940	0.03520	-2.38894	0.57279	-0.00223	1.89451	0.67423	-0.03605	0.89009
0.06734	-0.47506	1.76962	0.03629	-2.37097	0.57210	-0.00227	1.84338	0.67822	-0.03598	0.89095
0.06893	-0.57345	1.76994	0.03696	-2.35107	0.57029	-0.00231	1.77880	0.68319	-0.03568	0.89044
0.07055	-0.68458	1.77009	0.03739	-2.32893	0.56710	-0.00234	1.70734	0.68883	-0.03531	0.88951
0.07221	-0.81449	1.76929	0.03797	-2.30229	0.56259	-0.00238	1.62892	0.69521	-0.03506	0.88924
0.07391	-0.96999	1.76670	0.03892	-2.26927	0.55802	-0.00243	1.54042	0.70252	-0.03500	0.88997
0.07565	-1.13344	1.76207	0.03995	-2.23331	0.55594	-0.00249	1.45060	0.70994	-0.03497	0.89072
0.07743	-1.27474	1.75635	0.04055	-2.20081	0.55712	-0.00255	1.37430	0.71623	-0.03476	0.89018
0.07925	-1.38125	1.75067	0.04047	-2.17479	0.55930	-0.00260	1.31662	0.72102	-0.03432	0.88794
0.08111	-1.46759	1.74574	0.03997	-2.15295	0.56016	-0.00263	1.26907	0.72520	-0.03363	0.88406
0.08302	-1.55408	1.74197	0.03966	-2.13196	0.56046	-0.00267	1.22221	0.72970	-0.03287	0.87971
0.08498	-1.64072	1.73899	0.03983	-2.11167	0.56301	-0.00271	1.17727	0.73418	-0.03236	0.87700
0.08697	-1.72278	1.73569	0.04019	-2.09197	0.56921	-0.00277	1.13693	0.73811	-0.03216	0.87664
0.08902	-1.81283	1.73149	0.04040	-2.06999	0.57673	-0.00283	1.09434	0.74225	-0.03204	0.87721
0.09112	-1.92955	1.72661	0.04042	-2.04257	0.58101	-0.00289	1.03943	0.74812	-0.03170	0.87672
0.09326	-2.06824	1.72111	0.04023	-2.01067	0.58025	-0.00294	0.97435	0.75578	-0.03105	0.87449
0.09545	-2.19429	1.71461	0.03949	-1.98030	0.57719	-0.00298	0.91557	0.76306	-0.03027	0.87152
0.09770	-2.28125	1.70707	0.03807	-1.95629	0.57505	-0.00300	0.87502	0.76789	-0.02965	0.86976
0.10000	-2.33580	1.69865	0.03625	-1.93751	0.57411	-0.00302	0.84962	0.77044	-0.02938	0.87062
0.10235	-2.38054	1.68999	0.03430	-1.92028	0.57269	-0.00304	0.82940	0.77225	-0.02940	0.87352
0.10476	-2.43217	1.68187	0.03236	-1.90224	0.57019	-0.00305	0.80684	0.77464	-0.02936	0.87610
0.10723	-2.49567	1.67437	0.03043	-1.88266	0.56853	-0.00306	0.77955	0.77796	-0.02895	0.87615
0.10975	-2.56447	1.66730	0.02849	-1.86267	0.57100	-0.00309	0.75095	0.78152	-0.02815	0.87345
0.11233	-2.62313	1.66056	0.02639	-1.84497	0.57886	-0.00314	0.72812	0.78398	-0.02725	0.87005
0.11498	-2.65476	1.65401	0.02381	-1.83235	0.59005	-0.00318	0.71730	0.78422	-0.02666	0.86856
0.11768	-2.65535	1.64734	0.02058	-1.82516	0.60013	-0.00321	0.71838	0.78237	-0.02636	0.86899
0.12045	-2.64196	1.64014	0.01696	-1.81979	0.60409	-0.00321	0.72279	0.78018	-0.02597	0.86870
0.12328	-2.64465	1.63212	0.01374	-1.81055	0.59996	-0.00320	0.71788	0.77998	-0.02530	0.86629
0.12619	-2.68756	1.62387	0.01156	-1.79376	0.59111	-0.00318	0.69596	0.78309	-0.02448	0.86243
0.12916	-2.77667	1.61660	0.01052	-1.76957	0.58372	-0.00319	0.65855	0.78932	-0.02362	0.85799
0.13219	-2.89238	1.61062	0.01014	-1.74203	0.58249	-0.00322	0.61554	0.79691	-0.02280	0.85354
0.13531	-2.99052	1.60556	0.00938	-1.71900	0.58923	-0.00327	0.58243	0.80255	-0.02209	0.84970
0.13849	-3.03819	1.60106	0.00744	-1.70609	0.60225	-0.00332	0.56825	0.80392	-0.02151	0.84659
0.14175	-3.03482	1.59652	0.00417	-1.70269	0.61738	-0.00335	0.57098	0.80135	-0.02094	0.84344
0.14508	-3.00662	1.59134	-0.00007	-1.70326	0.62980	-0.00336	0.58060	0.79728	-0.02020	0.83913
0.14850	-2.98896	1.58472	-0.00472	-1.70036	0.63569	-0.00335	0.58430	0.79466	-0.01939	0.83441
0.15199	-3.00110	1.57605	-0.00932	-1.68979	0.63442	-0.00334	0.57557	0.79485	-0.01876	0.83105
0.15557	-3.03956	1.56541	-0.01365	-1.67231	0.62800	-0.00332	0.55659	0.79735	-0.01830	0.82876
0.15923	-3.09675	1.55358	-0.01748	-1.65029	0.61902	-0.00330	0.53126	0.80136	-0.01773	0.82556
0.16298	-3.16648	1.54205	-0.02056	-1.62665	0.61019	-0.00329	0.50303	0.80624	-0.01698	0.82098
0.16681	-3.24013	1.53187	-0.02307	-1.60409	0.60313	-0.00329	0.47553	0.81123	-0.01627	0.81661
0.17074	-3.30859	1.52336	-0.02546	-1.58442	0.59890	-0.00329	0.45204	0.81548	-0.01578	0.81379
0.17475	-3.35975	1.51635	-0.02821	-1.56941	0.59955	-0.00330	0.43659	0.81761	-0.01553	0.81275
0.17887	-3.38005	1.51036	-0.03178	-1.56091	0.60705	-0.00332	0.43335	0.81607	-0.01540	0.81279
0.18307	-3.37114	1.50495	-0.03608	-1.55817	0.62109	-0.00335	0.44127	0.81107	-0.01519	0.81255
0.18738	-3.34846	1.49939	-0.04074	-1.55780	0.63802	-0.00338	0.45422	0.80458	-0.01469	0.81056
0.19179	-3.32501	1.49321	-0.04542	-1.55708	0.65273	-0.00340	0.46651	0.79839	-0.01376	0.80606
0.19631	-3.30738	1.48682	-0.04994	-1.55510	0.66222	-0.00340	0.47567	0.79337	-0.01255	0.79987
0.20092	-3.29586	1.48091	-0.05435	-1.55225	0.66738	-0.00339	0.48243	0.78936	-0.01128	0.79335
0.20565	-3.29475	1.47576	-0.05872	-1.54789	0.67031	-0.00337	0.48600	0.78650	-0.01002	0.78700
0.21049	-3.31708	1.47099	-0.06283	-1.53930	0.67122	-0.00336	0.48134	0.78599	-0.00885	0.78112
0.21544	-3.37311	1.46577	-0.06645	-1.52392	0.66917	-0.00336	0.46401	0.78897	-0.00782	0.77627
0.22051	-3.45517	1.45936	-0.06973	-1.50276	0.66411	-0.00336	0.43672	0.79482	-0.00700	0.77274
0.22570	-3.54593	1.45154	-0.07307	-1.47906	0.65727	-0.00335	0.40602	0.80184	-0.00638	0.77062
0.23101	-3.63011	1.44267	-0.07672	-1.45606	0.65122	-0.00333	0.37789	0.80824	-0.00600	0.77022
0.23645	-3.69581	1.43369	-0.08085	-1.43675	0.64909	-0.00332	0.35701	0.81230	-0.00590	0.77189
0.24201	-3.73601	1.42593	-0.08541	-1.42369	0.65296	-0.00332	0.34614	0.81284	-0.00602	0.77515
0.24771	-3.75103	1.42057	-0.09012	-1.41795	0.66289	-0.00332	0.34560	0.80970	-0.00623	0.77900
0.25354	-3.74707	1.41794	-0.09475	-1.41858	0.67747	-0.00333	0.35395	0.80360	-0.00635	0.78221
0.25950	-3.73243	1.41760	-0.09922	-1.42338	0.69481	-0.00335	0.36870	0.79566	-0.00621	0.78340
0.26561	-3.71329	1.41860	-0.10362	-1.43012	0.71336	-0.00337	0.38739	0.78685	-0.00569	0.78169
0.27186	-3.69439	1.42013	-0.10809	-1.43703	0.73212	-0.00340	0.40788	0.77792	-0.00482	0.77734
0.27826	-3.68324	1.42196	-0.11256	-1.44247	0.75041	-0.00343	0.42725	0.76977	-0.00366	0.77115
0.28480	-3.68634	1.42395	-0.11678	-1.44517	0.76713	-0.00347	0.44242	0.76325	-0.00237	0.76439
0.29150	-3.70758	1.42574	-0.12056	-1.44430	0.78091	-0.00350	0.45075	0.75887	-0.00113	0.75810
0.29836	-3.74666	1.42677	-0.12391	-1.43954	0.79094	-0.00353	0.45136	0.75663	-0.00009	0.75281

0.30539	-3.80401	1.42650	-0.12697	-1.43024	0.79664	-0.00355	0.44377	0.75654	0.00063	0.74918
0.31257	-3.87843	1.42436	-0.12994	-1.41590	0.79768	-0.00356	0.42812	0.75859	0.00090	0.74827
0.31993	-3.96199	1.42040	-0.13310	-1.39803	0.79452	-0.00357	0.40766	0.76202	0.00066	0.75069
0.32745	-4.04165	1.41566	-0.13662	-1.38021	0.78852	-0.00356	0.38788	0.76543	0.00000	0.75598
0.33517	-4.11310	1.41099	-0.14053	-1.36414	0.78032	-0.00354	0.37069	0.76832	-0.00094	0.76336
0.34304	-4.17424	1.40704	-0.14477	-1.35080	0.77076	-0.00350	0.35728	0.77029	-0.00210	0.77239
0.35112	-4.22287	1.40443	-0.14936	-1.34116	0.76143	-0.00346	0.34902	0.77080	-0.00338	0.78245
0.35938	-4.25756	1.40357	-0.15435	-1.33583	0.75409	-0.00342	0.34711	0.76936	-0.00460	0.79223
0.36784	-4.28665	1.40490	-0.15963	-1.33369	0.74900	-0.00339	0.34914	0.76684	-0.00541	0.79946
0.37649	-4.31934	1.40838	-0.16501	-1.33313	0.74531	-0.00336	0.35175	0.76444	-0.00562	0.80263
0.38536	-4.35245	1.41356	-0.17050	-1.33459	0.74320	-0.00333	0.35557	0.76178	-0.00539	0.80274
0.39442	-4.38054	1.41992	-0.17605	-1.33890	0.74328	-0.00330	0.36215	0.75813	-0.00500	0.80154
0.40370	-4.39986	1.42697	-0.18172	-1.34645	0.74578	-0.00326	0.37278	0.75292	-0.00460	0.80015
0.41321	-4.40484	1.43406	-0.18758	-1.35766	0.75091	-0.00322	0.38935	0.74558	-0.00430	0.79927
0.42292	-4.39453	1.44043	-0.19358	-1.37182	0.75839	-0.00318	0.41257	0.73599	-0.00406	0.79885
0.43288	-4.37883	1.44554	-0.19958	-1.38634	0.76696	-0.00314	0.43925	0.72529	-0.00377	0.79817
0.44307	-4.36197	1.44907	-0.20562	-1.39997	0.77551	-0.00310	0.46774	0.71403	-0.00345	0.79731
0.45349	-4.34752	1.45090	-0.21182	-1.41180	0.78254	-0.00305	0.49641	0.70275	-0.00311	0.79659
0.46417	-4.33551	1.45155	-0.21824	-1.42219	0.78776	-0.00299	0.52601	0.69134	-0.00274	0.79606
0.47508	-4.32372	1.45163	-0.22494	-1.43204	0.79232	-0.00293	0.55890	0.67935	-0.00232	0.79565
0.48626	-4.31331	1.45130	-0.23186	-1.44123	0.79731	-0.00288	0.59525	0.66686	-0.00185	0.79529
0.49771	-4.30932	1.45035	-0.23884	-1.44846	0.80259	-0.00282	0.63271	0.65441	-0.00142	0.79530
0.50942	-4.31806	1.44882	-0.24564	-1.45248	0.80730	-0.00278	0.66791	0.64262	-0.00107	0.79602
0.52140	-4.34557	1.44709	-0.25206	-1.45236	0.81038	-0.00274	0.69696	0.63215	-0.00083	0.79759
0.53367	-4.39323	1.44568	-0.25804	-1.44828	0.81149	-0.00270	0.71740	0.62345	-0.00070	0.79999
0.54624	-4.45288	1.44513	-0.26368	-1.44240	0.81151	-0.00267	0.73233	0.61607	-0.00064	0.80298
0.55910	-4.51759	1.44589	-0.26908	-1.43652	0.81105	-0.00264	0.74533	0.60953	-0.00053	0.80573
0.57225	-4.58225	1.44810	-0.27428	-1.43178	0.81019	-0.00262	0.75992	0.60323	-0.00027	0.80747
0.58569	-4.64639	1.45131	-0.27941	-1.42774	0.80823	-0.00259	0.77602	0.59713	0.00017	0.80801
0.59948	-4.71361	1.45475	-0.28456	-1.42290	0.80414	-0.00256	0.79032	0.59162	0.00072	0.80778
0.61357	-4.78795	1.45785	-0.28971	-1.41579	0.79754	-0.00252	0.79866	0.58723	0.00128	0.80745
0.62802	-4.87187	1.46057	-0.29471	-1.40587	0.78917	-0.00249	0.79939	0.58412	0.00177	0.80761
0.64280	-4.96289	1.46321	-0.29940	-1.39390	0.78046	-0.00246	0.79465	0.58198	0.00212	0.80873
0.65794	-5.05823	1.46602	-0.30368	-1.38069	0.77239	-0.00244	0.78676	0.58051	0.00231	0.81101
0.67340	-5.15578	1.46900	-0.30755	-1.36668	0.76514	-0.00242	0.77617	0.57974	0.00231	0.81465
0.68927	-5.25428	1.47213	-0.31108	-1.35214	0.75857	-0.00241	0.76291	0.57977	0.00211	0.81984
0.70547	-5.35353	1.47544	-0.31428	-1.33712	0.75236	-0.00241	0.74630	0.58078	0.00175	0.82617
0.72207	-5.45533	1.47913	-0.31720	-1.32146	0.74640	-0.00241	0.72601	0.58285	0.00134	0.83276
0.73910	-5.56223	1.48323	-0.31983	-1.30469	0.74027	-0.00241	0.70097	0.58615	0.00098	0.83872
0.75649	-5.67424	1.48755	-0.32224	-1.28661	0.73388	-0.00243	0.67136	0.59066	0.00071	0.84341
0.77429	-5.78951	1.49178	-0.32460	-1.26731	0.72739	-0.00244	0.63872	0.59613	0.00055	0.84636
0.79246	-5.90612	1.49569	-0.32701	-1.24695	0.72103	-0.00246	0.60393	0.60249	0.00055	0.84721
0.81116	-6.02489	1.49937	-0.32952	-1.22553	0.71510	-0.00249	0.56709	0.60984	0.00071	0.84598
0.83022	-6.14127	1.50323	-0.33201	-1.20457	0.71071	-0.00253	0.53159	0.61758	0.00102	0.84295
0.84976	-6.25473	1.50772	-0.33442	-1.18480	0.70794	-0.00257	0.49855	0.62546	0.00147	0.83857
0.86972	-6.36548	1.51298	-0.33673	-1.16647	0.70590	-0.00262	0.46763	0.63353	0.00203	0.83336
0.89023	-6.47391	1.51915	-0.33898	-1.14982	0.70391	-0.00266	0.43837	0.64187	0.00268	0.82788
0.91116	-6.57804	1.52612	-0.34129	-1.13526	0.70121	-0.00269	0.41104	0.65045	0.00338	0.82291
0.93257	-6.67719	1.53387	-0.34365	-1.12309	0.69856	-0.00271	0.38620	0.65895	0.00409	0.81877
0.95456	-6.76952	1.54226	-0.34612	-1.11372	0.69640	-0.00273	0.36537	0.66663	0.00475	0.81570
0.97704	-6.85151	1.55097	-0.34886	-1.10767	0.69424	-0.00274	0.35040	0.67242	0.00537	0.81370
1.00000	-6.92451	1.55987	-0.35193	-1.10455	0.69177	-0.00274	0.34116	0.67589	0.00600	0.81230
1.02354	-6.99453	1.56890	-0.35539	-1.10307	0.68913	-0.00273	0.33567	0.67743	0.00674	0.81073
1.04767	-7.06488	1.57807	-0.35920	-1.10272	0.68658	-0.00271	0.33303	0.67715	0.00766	0.80844
1.07227	-7.13736	1.58724	-0.36329	-1.10303	0.68389	-0.00269	0.33263	0.67521	0.00874	0.80540
1.09745	-7.21213	1.59634	-0.36762	-1.10395	0.68147	-0.00267	0.33456	0.67156	0.00991	0.80214
1.12334	-7.28941	1.60526	-0.37216	-1.10531	0.67974	-0.00265	0.33876	0.66628	0.01103	0.79957
1.14982	-7.37013	1.61389	-0.37676	-1.10663	0.67852	-0.00263	0.34449	0.65977	0.01196	0.79855
1.17675	-7.45522	1.62217	-0.38130	-1.10746	0.67713	-0.00260	0.35099	0.65246	0.01263	0.79945
1.20453	-7.54765	1.63015	-0.38581	-1.10732	0.67454	-0.00258	0.35767	0.64448	0.01305	0.80217
1.23289	-7.64875	1.63773	-0.39015	-1.10560	0.67068	-0.00256	0.36376	0.63608	0.01326	0.80627
1.26183	-7.75965	1.64497	-0.39422	-1.10210	0.66587	-0.00254	0.36922	0.62720	0.01330	0.81127
1.29149	-7.87937	1.65203	-0.39801	-1.09723	0.66093	-0.00253	0.37533	0.61734	0.01326	0.81675
1.32188	-8.00511	1.65901	-0.40147	-1.09174	0.65619	-0.00252	0.38382	0.60597	0.01321	0.82217
1.35300	-8.13602	1.66609	-0.40457	-1.08593	0.65164	-0.00250	0.39520	0.59311	0.01325	0.82687
1.38485	-8.26885	1.67348	-0.40738	-1.08056	0.64762	-0.00249	0.41139	0.57852	0.01352	0.83021
1.41743	-8.39972	1.68128	-0.40992	-1.07653	0.64515	-0.00247	0.43504	0.56181	0.01408	0.83173
1.45075	-8.52508	1.68946	-0.41216	-1.07453	0.64535	-0.00246	0.46905	0.54273	0.01498	0.83127
1.48500	-8.64386	1.69796	-0.41406	-1.07477	0.64874	-0.00245	0.51600	0.52129	0.01617	0.82896
1.51999	-8.75427	1.70665	-0.41554	-1.07734	0.65604	-0.00245	0.57806	0.49793	0.01759	0.82520
1.55569	-8.85714	1.71539	-0.41651	-1.08181	0.66643	-0.00246	0.65642	0.47331	0.01914	0.82051
1.59236	-8.95505	1.72413	-0.41692	-1.08761	0.67912	-0.00247	0.75201	0.44801	0.02071	0.81545
1.62973	-9.04973	1.73277	-0.41679	-1.09400	0.69297	-0.00248	0.86380	0.42283	0.02222	0.81057
1.66806	-9.14394	1.74131	-0.41616	-1.10038	0.70671	-0.00249	0.99178	0.39808	0.02360	0.80626
1.70736	-9.23916	1.74983	-0.41508	-1.10637	0.71980	-0.00250	1.13525	0.37409	0.02483	0.80286
1.74764	-9.33604	1.75835	-0.41358	-1.11180	0.73173	-0.00251	1.29367	0.35107	0.02586	0.80068
1.78859	-9.43424	1.76689	-0.41170	-1.11660	0.74239	-0.00252	1.46470	0.32934	0.02668	0.79984
1.83083	-9.53538	1.77565	-0.40946	-1.12089	0.75201	-0.00253	1.64971	0.30869	0.02736	0.80016
1.87371	-9.63848	1.78454	-0.40696	-1.12451	0.76037	-0.00253	1.84269	0.28962	0.02793	0.80130
1.91791	-9.74336	1.79373	-0.40419	-1.12799	0.76840	-0.00253	2.04748	0.27174	0.02848	0.80295
1.96309	-9.84755	1.80309	-0.40122	-1.13162	0.77654	-0.00253	2.26329	0.25509	0.02900	0.80489

2.00924	-9.94998	1.81251	-0.39807	-1.13554	0.78494	-0.00253	2.49007	0.23963	0.02949	0.80709
2.05634	-10.05015	1.82192	-0.39478	-1.13974	0.79357	-0.00253	2.72659	0.22535	0.02993	0.80954
2.10482	-10.14932	1.83133	-0.39134	-1.14411	0.80234	-0.00253	2.97157	0.21215	0.03031	0.81219
2.15424	-10.24748	1.84066	-0.38784	-1.14840	0.81098	-0.00253	3.21767	0.20022	0.03062	0.81488
2.20507	-10.34649	1.85003	-0.38426	-1.15245	0.81934	-0.00253	3.46135	0.18951	0.03087	0.81754
2.25683	-10.44661	1.85940	-0.38067	-1.15601	0.82707	-0.00253	3.69374	0.18014	0.03106	0.82018
2.31000	-10.54930	1.86891	-0.37705	-1.15905	0.83420	-0.00253	3.91256	0.17201	0.03117	0.82291
2.36463	-10.65475	1.87861	-0.37341	-1.16160	0.84080	-0.00253	4.11526	0.16503	0.03122	0.82584
2.42014	-10.76186	1.88849	-0.36977	-1.16371	0.84690	-0.00253	4.29880	0.15918	0.03120	0.82902
2.47709	-10.87160	1.89864	-0.36611	-1.16547	0.85261	-0.00253	4.46451	0.15430	0.03110	0.83261
2.53550	-10.98423	1.90912	-0.36241	-1.16685	0.85792	-0.00252	4.61111	0.15032	0.03093	0.83677
2.59471	-11.09866	1.91983	-0.35873	-1.16782	0.86275	-0.00252	4.73654	0.14721	0.03068	0.84157
2.65604	-11.21729	1.93094	-0.35496	-1.16841	0.86721	-0.00252	4.84324	0.14482	0.03035	0.84718
2.71887	-11.33876	1.94238	-0.35118	-1.16862	0.87127	-0.00252	4.92993	0.14314	0.02994	0.85359
2.78242	-11.46139	1.95395	-0.34741	-1.16847	0.87490	-0.00251	4.99663	0.14211	0.02947	0.86075
2.84819	-11.58758	1.96581	-0.34358	-1.16798	0.87820	-0.00251	5.04596	0.14163	0.02892	0.86885
2.91545	-11.71594	1.97791	-0.33977	-1.16714	0.88116	-0.00251	5.07803	0.14165	0.02832	0.87782
2.98329	-11.84363	1.98987	-0.33597	-1.16610	0.88381	-0.00251	5.09564	0.14209	0.02769	0.88736
3.05344	-11.97428	2.00210	-0.33218	-1.16475	0.88622	-0.00250	5.09970	0.14289	0.02703	0.89743
3.12598	-12.10706	2.01441	-0.32832	-1.16318	0.88843	-0.00250	5.09221	0.14401	0.02635	0.90779
3.19898	-12.23845	2.02653	-0.32457	-1.16141	0.89039	-0.00250	5.07436	0.14538	0.02569	0.91783
3.27439	-12.37135	2.03870	-0.32075	-1.15950	0.89223	-0.00249	5.04801	0.14699	0.02502	0.92750
3.35121	-12.50371	2.05075	-0.31701	-1.15746	0.89391	-0.00249	5.01445	0.14878	0.02438	0.93648
3.43053	-12.63721	2.06279	-0.31319	-1.15534	0.89552	-0.00249	4.97443	0.15077	0.02374	0.94514
3.51124	-12.76985	2.07472	-0.30946	-1.15311	0.89700	-0.00249	4.92957	0.15285	0.02312	0.95358
3.59324	-12.90080	2.08634	-0.30567	-1.15094	0.89845	-0.00248	4.88170	0.15505	0.02250	0.96218
3.67782	-13.03334	2.09822	-0.30195	-1.14864	0.89982	-0.00248	4.82944	0.15736	0.02188	0.97137
3.76506	-13.16490	2.10969	-0.29805	-1.14647	0.90122	-0.00248	4.77590	0.15976	0.02123	0.98162
3.85356	-13.29758	2.12160	-0.29432	-1.14412	0.90248	-0.00247	4.71805	0.16224	0.02059	0.99264
3.94477	-13.42763	2.13277	-0.29038	-1.14199	0.90381	-0.00247	4.66152	0.16475	0.01994	1.00444
4.03714	-13.55949	2.14457	-0.28656	-1.13973	0.90502	-0.00247	4.60098	0.16736	0.01929	1.01649
4.13223	-13.68933	2.15587	-0.28265	-1.13760	0.90628	-0.00246	4.54264	0.16993	0.01865	1.02866
4.23012	-13.82000	2.16724	-0.27855	-1.13559	0.90758	-0.00246	4.48349	0.17259	0.01801	1.04064
4.32900	-13.95168	2.17921	-0.27471	-1.13344	0.90877	-0.00245	4.42365	0.17519	0.01741	1.05176
4.43066	-14.07816	2.18987	-0.27050	-1.13168	0.91011	-0.00245	4.36912	0.17773	0.01682	1.06228
4.53515	-14.21078	2.20190	-0.26637	-1.12971	0.91136	-0.00244	4.31031	0.18038	0.01625	1.07213
4.64253	-14.34205	2.21365	-0.26228	-1.12778	0.91260	-0.00244	4.25451	0.18290	0.01571	1.08129
4.75059	-14.46671	2.22410	-0.25785	-1.12626	0.91396	-0.00244	4.20362	0.18536	0.01517	1.08980
4.86145	-14.59998	2.23657	-0.25368	-1.12438	0.91516	-0.00243	4.14756	0.18791	0.01466	1.09770
4.97760	-14.73073	2.24815	-0.24937	-1.12267	0.91644	-0.00242	4.09639	0.19031	0.01415	1.10524
5.09424	-14.85513	2.25850	-0.24468	-1.12138	0.91785	-0.00242	4.04966	0.19266	0.01365	1.11232
5.21376	-14.99013	2.27139	-0.24034	-1.11966	0.91906	-0.00241	3.99728	0.19511	0.01317	1.11893
5.33618	-15.11883	2.28299	-0.23603	-1.11813	0.92032	-0.00241	3.95149	0.19731	0.01272	1.12521
5.46150	-15.23985	2.29269	-0.23113	-1.11716	0.92181	-0.00240	3.91166	0.19945	0.01225	1.13146
5.58971	-15.37318	2.30530	-0.22650	-1.11578	0.92311	-0.00240	3.86539	0.20173	0.01180	1.13756
5.72082	-15.50647	2.31817	-0.22226	-1.11424	0.92431	-0.00239	3.82142	0.20383	0.01138	1.14355
5.85823	-15.62573	2.32730	-0.21722	-1.11350	0.92586	-0.00238	3.78795	0.20574	0.01094	1.15002
5.99520	-15.75096	2.33821	-0.21221	-1.11264	0.92732	-0.00238	3.75090	0.20776	0.01051	1.15648
6.13497	-15.88844	2.35224	-0.20783	-1.11123	0.92851	-0.00237	3.70876	0.20981	0.01011	1.16286
6.28141	-16.01291	2.36304	-0.20327	-1.11024	0.92987	-0.00236	3.67624	0.21154	0.00973	1.16953
6.42674	-16.12301	2.37086	-0.19807	-1.10995	0.93145	-0.00236	3.65084	0.21316	0.00933	1.17638
6.57895	-16.25187	2.38261	-0.19298	-1.10922	0.93290	-0.00235	3.61751	0.21502	0.00893	1.18344
6.73401	-16.39245	2.39745	-0.18863	-1.10791	0.93406	-0.00234	3.57991	0.21687	0.00858	1.19034
6.89180	-16.50812	2.40681	-0.18413	-1.10726	0.93541	-0.00233	3.55527	0.21828	0.00824	1.19740
7.05716	-16.61540	2.41356	-0.17865	-1.10726	0.93705	-0.00233	3.53544	0.21970	0.00786	1.20495
7.22022	-16.73627	2.42410	-0.17357	-1.10682	0.93846	-0.00232	3.50905	0.22127	0.00750	1.21204
7.39098	-16.87787	2.43927	-0.16908	-1.10573	0.93964	-0.00231	3.47558	0.22296	0.00719	1.21884
7.56430	-17.00131	2.45075	-0.16502	-1.10485	0.94079	-0.00230	3.45060	0.22426	0.00691	1.22524
7.73994	-17.09268	2.45473	-0.15990	-1.10510	0.94230	-0.00230	3.43846	0.22531	0.00658	1.23164
7.92393	-17.20313	2.46257	-0.15455	-1.10508	0.94377	-0.00229	3.41936	0.22662	0.00624	1.23770
8.11030	-17.32952	2.47436	-0.14958	-1.10463	0.94508	-0.00228	3.39473	0.22805	0.00594	1.24310
8.29876	-17.47332	2.49075	-0.14558	-1.10350	0.94610	-0.00227	3.36478	0.22950	0.00571	1.24769
8.49618	-17.58369	2.49932	-0.14155	-1.10302	0.94723	-0.00226	3.34778	0.23049	0.00546	1.25228
8.69565	-17.66338	2.50061	-0.13635	-1.10357	0.94867	-0.00226	3.34050	0.23134	0.00515	1.25717
8.90472	-17.77111	2.50788	-0.13109	-1.10364	0.95002	-0.00225	3.32434	0.23248	0.00484	1.26188
9.11577	-17.88937	2.51790	-0.12611	-1.10346	0.95128	-0.00224	3.30503	0.23369	0.00456	1.26634
9.32836	-18.03534	2.53486	-0.12191	-1.10260	0.95234	-0.00223	3.27827	0.23504	0.00435	1.27037
9.54198	-18.16090	2.54796	-0.11867	-1.10172	0.95322	-0.00222	3.25844	0.23598	0.00419	1.27440
9.76563	-18.22760	2.54682	-0.11420	-1.10226	0.95439	-0.00222	3.25488	0.23657	0.00391	1.27976
10.00000	-18.30920	2.54830	-0.10895	-1.10277	0.95565	-0.00221	3.24681	0.23739	0.00359	1.28593

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Low stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 152 - 305 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.64542	3.36442	-0.04913	-1.68722	1.04121	-0.00103	1.23605	0.44893	-0.01685	0.33241
PGV	1.25810	1.81626	-0.13144	-2.25198	1.25573	-0.00163	4.26802	0.37827	-0.01135	0.42155
PGA	1.40165	1.52514	-0.06484	-2.71945	1.05821	-0.00143	5.00493	0.45025	-0.03499	0.77108
0.01000	1.87183	1.53950	-0.06417	-2.81667	1.06734	-0.00132	5.56570	0.44110	-0.02057	0.74812
0.01024	1.86285	1.54154	-0.06344	-2.81601	1.06226	-0.00132	5.54044	0.44252	-0.02062	0.74851
0.01048	1.85701	1.54353	-0.06271	-2.81592	1.05740	-0.00131	5.51873	0.44385	-0.02068	0.74889
0.01072	1.85454	1.54550	-0.06199	-2.81646	1.05274	-0.00130	5.50085	0.44509	-0.02075	0.74925
0.01097	1.85614	1.54746	-0.06128	-2.81775	1.04829	-0.00129	5.48767	0.44621	-0.02082	0.74961
0.01123	1.86182	1.54942	-0.06058	-2.81981	1.04405	-0.00128	5.47916	0.44722	-0.02090	0.74996
0.01150	1.87137	1.55138	-0.05987	-2.82260	1.04001	-0.00127	5.47504	0.44812	-0.02099	0.75032
0.01177	1.88351	1.55332	-0.05917	-2.82586	1.03612	-0.00126	5.47377	0.44896	-0.02108	0.75071
0.01205	1.89884	1.55527	-0.05846	-2.82972	1.03239	-0.00125	5.47598	0.44971	-0.02119	0.75113
0.01233	1.91785	1.55725	-0.05775	-2.83429	1.02884	-0.00124	5.48214	0.45038	-0.02130	0.75158
0.01262	1.93979	1.55924	-0.05703	-2.83941	1.02540	-0.00122	5.49127	0.45097	-0.02142	0.75202
0.01292	1.96291	1.56122	-0.05630	-2.84474	1.02201	-0.00121	5.50121	0.45155	-0.02154	0.75245
0.01322	1.98819	1.56322	-0.05556	-2.85046	1.01869	-0.00120	5.51316	0.45208	-0.02167	0.75293
0.01353	2.01801	1.56525	-0.05481	-2.85704	1.01548	-0.00118	5.53013	0.45252	-0.02182	0.75350
0.01385	2.05208	1.56729	-0.05405	-2.86439	1.01236	-0.00117	5.55204	0.45285	-0.02198	0.75415
0.01417	2.08982	1.56935	-0.05328	-2.87242	1.00936	-0.00115	5.57823	0.45309	-0.02214	0.75480
0.01451	2.13159	1.57145	-0.05251	-2.88121	1.00649	-0.00113	5.60870	0.45325	-0.02230	0.75547
0.01485	2.17701	1.57360	-0.05173	-2.89070	1.00364	-0.00111	5.64275	0.45335	-0.02246	0.75620
0.01520	2.22472	1.57577	-0.05094	-2.90059	1.00072	-0.00110	5.67899	0.45342	-0.02263	0.75696
0.01556	2.27346	1.57794	-0.05013	-2.91064	0.99771	-0.00108	5.71582	0.45348	-0.02279	0.75780
0.01592	2.32540	1.58017	-0.04931	-2.92128	0.99473	-0.00106	5.75550	0.45351	-0.02296	0.75873
0.01630	2.38211	1.58247	-0.04846	-2.93281	0.99182	-0.00104	5.80010	0.45346	-0.02312	0.75969
0.01668	2.44321	1.58481	-0.04760	-2.94512	0.98890	-0.00102	5.84948	0.45333	-0.02328	0.76068
0.01707	2.50748	1.58715	-0.04674	-2.95799	0.98597	-0.00099	5.90243	0.45315	-0.02345	0.76175
0.01748	2.57533	1.58951	-0.04589	-2.97151	0.98319	-0.00097	5.95966	0.45289	-0.02364	0.76304
0.01789	2.64748	1.59191	-0.04504	-2.98582	0.98053	-0.00095	6.02185	0.45254	-0.02386	0.76455
0.01831	2.72428	1.59436	-0.04415	-3.00099	0.97795	-0.00092	6.08900	0.45213	-0.02408	0.76607
0.01874	2.80237	1.59683	-0.04323	-3.01635	0.97528	-0.00090	6.15674	0.45173	-0.02430	0.76757
0.01918	2.87754	1.59929	-0.04226	-3.03107	0.97202	-0.00087	6.21926	0.45147	-0.02452	0.76906
0.01963	2.95251	1.60180	-0.04123	-3.04568	0.96807	-0.00085	6.27972	0.45131	-0.02474	0.77060
0.02009	3.02794	1.60437	-0.04017	-3.06034	0.96378	-0.00082	6.33873	0.45121	-0.02496	0.77212
0.02057	3.09883	1.60696	-0.03908	-3.07415	0.95936	-0.00080	6.38963	0.45129	-0.02517	0.77349
0.02105	3.16476	1.60954	-0.03796	-3.08702	0.95486	-0.00078	6.43247	0.45151	-0.02537	0.77486
0.02154	3.23365	1.61215	-0.03682	-3.10037	0.95026	-0.00075	6.47872	0.45170	-0.02560	0.77643
0.02205	3.30890	1.61478	-0.03570	-3.11474	0.94560	-0.00073	6.53353	0.45176	-0.02586	0.77811
0.02257	3.38583	1.61737	-0.03461	-3.12920	0.94059	-0.00070	6.59061	0.45182	-0.02610	0.77972
0.02310	3.45750	1.61986	-0.03352	-3.14249	0.93507	-0.00068	6.64090	0.45201	-0.02631	0.78114
0.02364	3.52353	1.62226	-0.03241	-3.15460	0.92933	-0.00066	6.68407	0.45233	-0.02655	0.78275
0.02420	3.59400	1.62469	-0.03129	-3.16749	0.92375	-0.00064	6.73260	0.45256	-0.02690	0.78512
0.02477	3.66817	1.62712	-0.03016	-3.18099	0.91831	-0.00061	6.78540	0.45272	-0.02737	0.78832
0.02535	3.74072	1.62950	-0.02902	-3.19406	0.91273	-0.00059	6.83559	0.45294	-0.02788	0.79175
0.02595	3.80112	1.63180	-0.02780	-3.20475	0.90669	-0.00058	6.86822	0.45348	-0.02834	0.79481
0.02656	3.84088	1.63403	-0.02652	-3.21153	0.90014	-0.00056	6.87188	0.45453	-0.02872	0.79744
0.02719	3.86909	1.63636	-0.02525	-3.21621	0.89324	-0.00055	6.85800	0.45591	-0.02901	0.79953
0.02783	3.89997	1.63892	-0.02405	-3.22148	0.88630	-0.00054	6.84499	0.45732	-0.02925	0.80135
0.02848	3.93235	1.64160	-0.02285	-3.22707	0.87956	-0.00054	6.83318	0.45873	-0.02957	0.80381
0.02915	3.96594	1.64424	-0.02160	-3.23274	0.87309	-0.00053	6.82493	0.46008	-0.02999	0.80700
0.02984	4.00445	1.64680	-0.02038	-3.23900	0.86629	-0.00052	6.82563	0.46129	-0.03043	0.81038
0.03054	4.03342	1.64923	-0.01913	-3.24320	0.85854	-0.00051	6.81398	0.46275	-0.03087	0.81379
0.03126	4.05532	1.65157	-0.01782	-3.24593	0.85027	-0.00051	6.79210	0.46442	-0.03126	0.81702
0.03199	4.08775	1.65393	-0.01653	-3.25053	0.84233	-0.00050	6.78378	0.46584	-0.03159	0.81992
0.03275	4.11310	1.65625	-0.01520	-3.25387	0.83448	-0.00050	6.76607	0.46740	-0.03187	0.82258
0.03352	4.09793	1.65839	-0.01371	-3.24992	0.82654	-0.00050	6.69688	0.46982	-0.03213	0.82513
0.03430	4.04547	1.66046	-0.01207	-3.23945	0.81982	-0.00052	6.58235	0.47296	-0.03237	0.82777
0.03511	3.98978	1.66261	-0.01053	-3.22856	0.81479	-0.00054	6.46742	0.47607	-0.03260	0.83029
0.03594	3.96630	1.66489	-0.00931	-3.22337	0.81040	-0.00056	6.39720	0.47840	-0.03278	0.83256
0.03678	3.98549	1.66735	-0.00842	-3.22581	0.80581	-0.00057	6.38170	0.47977	-0.03298	0.83500
0.03765	4.01631	1.67002	-0.00756	-3.23030	0.80017	-0.00057	6.37876	0.48101	-0.03326	0.83793
0.03854	4.00299	1.67242	-0.00650	-3.22634	0.79208	-0.00057	6.32058	0.48336	-0.03351	0.84078
0.03944	3.91728	1.67403	-0.00514	-3.20841	0.78107	-0.00060	6.17578	0.48741	-0.03369	0.84305
0.04037	3.80414	1.67508	-0.00364	-3.18498	0.76922	-0.00063	6.00132	0.49209	-0.03380	0.84483
0.04132	3.70974	1.67605	-0.00224	-3.16486	0.75916	-0.00065	5.85492	0.49623	-0.03391	0.84654
0.04229	3.64356	1.67694	-0.00110	-3.14976	0.75150	-0.00068	5.74990	0.49946	-0.03406	0.84861
0.04329	3.58480	1.67762	-0.00025	-3.13585	0.74485	-0.00071	5.66038	0.50232	-0.03427	0.85101
0.04431	3.50113	1.67829	0.00052	-3.11759	0.73780	-0.00074	5.54298	0.50578	-0.03453	0.85364
0.04535	3.38181	1.67911	0.00150	-3.09330	0.73049	-0.00078	5.38169	0.51029	-0.03482	0.85648

0.04642	3.23307	1.67983	0.00282	-3.06370	0.72273	-0.00082	5.18618	0.51574	-0.03517	0.85960
0.04751	3.06910	1.68008	0.00425	-3.03073	0.71379	-0.00087	4.97922	0.52166	-0.03555	0.86288
0.04863	2.90184	1.67995	0.00558	-2.99639	0.70376	-0.00092	4.77789	0.52770	-0.03588	0.86582
0.04977	2.71966	1.67973	0.00690	-2.95889	0.69224	-0.00098	4.56729	0.53431	-0.03608	0.86770
0.05094	2.53274	1.67930	0.00822	-2.92017	0.67939	-0.00103	4.35622	0.54127	-0.03610	0.86834
0.05214	2.37253	1.67883	0.00940	-2.88616	0.66645	-0.00107	4.17568	0.54765	-0.03591	0.86745
0.05337	2.22563	1.67843	0.01053	-2.85462	0.65314	-0.00111	4.01018	0.55384	-0.03551	0.86513
0.05462	2.05368	1.67809	0.01189	-2.81854	0.63859	-0.00115	3.82141	0.56109	-0.03511	0.86283
0.05591	1.86580	1.67792	0.01343	-2.77979	0.62411	-0.00120	3.62097	0.56907	-0.03489	0.86182
0.05722	1.67351	1.67798	0.01500	-2.74086	0.61181	-0.00125	3.42380	0.57721	-0.03479	0.86180
0.05857	1.45428	1.67813	0.01676	-2.69784	0.60241	-0.00131	3.21194	0.58612	-0.03473	0.86216
0.05995	1.19148	1.67799	0.01886	-2.64744	0.59585	-0.00139	2.97467	0.59637	-0.03485	0.86389
0.06136	0.92320	1.67710	0.02096	-2.59568	0.59115	-0.00148	2.74759	0.60672	-0.03533	0.86817
0.06280	0.68884	1.67518	0.02263	-2.54903	0.58597	-0.00155	2.55797	0.61600	-0.03597	0.87367
0.06428	0.50200	1.67257	0.02366	-2.51011	0.57992	-0.00161	2.40975	0.62380	-0.03638	0.87766
0.06579	0.36380	1.66978	0.02411	-2.47946	0.57341	-0.00165	2.30144	0.62993	-0.03634	0.87868
0.06734	0.26746	1.66718	0.02416	-2.45607	0.56647	-0.00169	2.22729	0.63450	-0.03601	0.87784
0.06893	0.19188	1.66449	0.02403	-2.43609	0.55894	-0.00171	2.16997	0.63829	-0.03583	0.87796
0.07055	0.09570	1.66144	0.02406	-2.41212	0.55083	-0.00174	2.09904	0.64296	-0.03599	0.88050
0.07221	-0.04715	1.65805	0.02447	-2.37995	0.54342	-0.00178	1.99662	0.64960	-0.03633	0.88422
0.07391	-0.21373	1.65405	0.02505	-2.34389	0.53909	-0.00183	1.88078	0.65710	-0.03664	0.88764
0.07565	-0.36034	1.64936	0.02548	-2.31113	0.53832	-0.00188	1.78342	0.66346	-0.03678	0.88980
0.07743	-0.46016	1.64480	0.02552	-2.28638	0.53922	-0.00193	1.72194	0.66755	-0.03655	0.88953
0.07925	-0.52981	1.64116	0.02533	-2.26722	0.54062	-0.00197	1.68323	0.67028	-0.03605	0.88733
0.08111	-0.62313	1.63800	0.02542	-2.24374	0.54056	-0.00202	1.63046	0.67438	-0.03543	0.88428
0.08302	-0.76340	1.63495	0.02601	-2.21174	0.53720	-0.00208	1.54810	0.68122	-0.03470	0.88033
0.08498	-0.92283	1.63155	0.02668	-2.17636	0.53246	-0.00213	1.45486	0.68932	-0.03397	0.87635
0.08697	-1.06862	1.62751	0.02701	-2.14353	0.52949	-0.00218	1.37208	0.69666	-0.03353	0.87434
0.08902	-1.18355	1.62342	0.02690	-2.11650	0.52787	-0.00223	1.30915	0.70237	-0.03339	0.87448
0.09112	-1.27301	1.61972	0.02628	-2.09443	0.52515	-0.00226	1.26048	0.70700	-0.03332	0.87547
0.09326	-1.36788	1.61591	0.02530	-2.07141	0.52021	-0.00229	1.20769	0.71230	-0.03324	0.87665
0.09545	-1.49124	1.61086	0.02436	-2.04228	0.51436	-0.00232	1.13980	0.71937	-0.03313	0.87805
0.09770	-1.62203	1.60428	0.02344	-2.01082	0.51012	-0.00235	1.06945	0.72685	-0.03295	0.87934
0.10000	-1.73068	1.59719	0.02227	-1.98336	0.50838	-0.00238	1.01201	0.73295	-0.03269	0.88062
0.10235	-1.82262	1.59043	0.02100	-1.95899	0.50820	-0.00241	0.96561	0.73798	-0.03249	0.88247
0.10476	-1.91575	1.58401	0.01986	-1.93394	0.50764	-0.00245	0.92124	0.74321	-0.03246	0.88566
0.10723	-2.01513	1.57807	0.01882	-1.90779	0.50523	-0.00248	0.87450	0.74931	-0.03250	0.88944
0.10975	-2.11455	1.57245	0.01762	-1.88229	0.50140	-0.00251	0.82737	0.75585	-0.03228	0.89153
0.11233	-2.18795	1.56708	0.01594	-1.86229	0.49921	-0.00253	0.79286	0.76055	-0.03167	0.89074
0.11498	-2.23908	1.56181	0.01399	-1.84663	0.49851	-0.00254	0.76956	0.76353	-0.03089	0.88848
0.11768	-2.30155	1.55578	0.01231	-1.82833	0.49650	-0.00255	0.74142	0.76739	-0.03031	0.88726
0.12045	-2.37731	1.54834	0.01080	-1.80646	0.49267	-0.00256	0.70741	0.77232	-0.02993	0.88712
0.12328	-2.30442	1.54135	0.00668	-1.81332	0.50390	-0.00256	0.73598	0.76479	-0.02944	0.88593
0.12619	-2.50277	1.53185	0.00669	-1.76633	0.48368	-0.00256	0.65207	0.78018	-0.02869	0.88275
0.12916	-2.54077	1.52501	0.00404	-1.75253	0.48169	-0.00256	0.63622	0.78197	-0.02779	0.87831
0.13219	-2.56241	1.51973	0.00126	-1.74358	0.48393	-0.00256	0.62908	0.78191	-0.02680	0.87312
0.13531	-2.56470	1.51477	-0.00177	-1.73874	0.48962	-0.00257	0.63100	0.77978	-0.02565	0.86668
0.13849	-2.55322	1.50939	-0.00512	-1.73605	0.49588	-0.00257	0.63846	0.77638	-0.02424	0.85834
0.14175	-2.54139	1.50372	-0.00858	-1.73304	0.50171	-0.00257	0.64555	0.77305	-0.02265	0.84839
0.14508	-2.54463	1.49846	-0.01171	-1.72761	0.50822	-0.00258	0.64665	0.77099	-0.02109	0.83822
0.14850	-2.56612	1.49409	-0.01444	-1.71975	0.51517	-0.00260	0.64102	0.77038	-0.01987	0.83003
0.15199	-2.60417	1.48989	-0.01711	-1.70912	0.51947	-0.00261	0.62837	0.77129	-0.01909	0.82471
0.15557	-2.65835	1.48543	-0.02002	-1.69545	0.51837	-0.00261	0.60796	0.77396	-0.01847	0.82069
0.15923	-2.71062	1.48157	-0.02340	-1.68288	0.51527	-0.00260	0.58792	0.77675	-0.01784	0.81670
0.16298	-2.74623	1.47882	-0.02702	-1.67466	0.51697	-0.00260	0.57520	0.77793	-0.01706	0.81198
0.16681	-2.77320	1.47610	-0.03036	-1.66814	0.52705	-0.00263	0.56705	0.77780	-0.01602	0.80562
0.17074	-2.79758	1.47198	-0.03337	-1.66074	0.54361	-0.00267	0.56054	0.77688	-0.01486	0.79863
0.17475	-2.80484	1.46600	-0.03679	-1.65478	0.56061	-0.00271	0.55984	0.77430	-0.01378	0.79250
0.17887	-2.78414	1.45870	-0.04133	-1.65290	0.57203	-0.00271	0.56859	0.76949	-0.01279	0.78722
0.18307	-2.75730	1.45115	-0.04662	-1.65196	0.57636	-0.00269	0.57964	0.76434	-0.01191	0.78290
0.18738	-2.75970	1.44416	-0.05176	-1.64616	0.57614	-0.00266	0.58048	0.76163	-0.01133	0.78061
0.19179	-2.79536	1.43747	-0.05644	-1.63443	0.57673	-0.00266	0.57045	0.76125	-0.01110	0.78054
0.19631	-2.84040	1.43001	-0.06100	-1.61990	0.58261	-0.00268	0.55928	0.76081	-0.01106	0.78169
0.20092	-2.87243	1.42211	-0.06570	-1.60662	0.59267	-0.00271	0.55530	0.75867	-0.01088	0.78205
0.20565	-2.89859	1.41465	-0.07027	-1.59403	0.60020	-0.00274	0.55375	0.75639	-0.01027	0.77973
0.21049	-2.93639	1.40775	-0.07445	-1.57933	0.59932	-0.00274	0.54511	0.75639	-0.00919	0.77444
0.21544	-2.98094	1.40144	-0.07844	-1.56401	0.59007	-0.00271	0.53082	0.75823	-0.00773	0.76675
0.22051	-3.01664	1.39585	-0.08258	-1.55135	0.57707	-0.00266	0.51923	0.75968	-0.00600	0.75712
0.22570	-3.04200	1.39042	-0.08697	-1.54084	0.56429	-0.00261	0.51317	0.75968	-0.00420	0.74680
0.23101	-3.06343	1.38508	-0.09149	-1.53108	0.55352	-0.00257	0.51131	0.75843	-0.00257	0.73735
0.23645	-3.08428	1.38094	-0.09599	-1.52259	0.54569	-0.00255	0.51300	0.75621	-0.00118	0.72907
0.24201	-3.11012	1.37814	-0.10038	-1.51449	0.54049	-0.00254	0.51534	0.75387	-0.00004	0.72213
0.24771	-3.13778	1.37564	-0.10468	-1.50627	0.53884	-0.00255	0.51834	0.75129	0.00066	0.71815
0.25354	-3.15509	1.37317	-0.10892	-1.49999	0.54266	-0.00256	0.52610	0.74749	0.00082	0.71846
0.25950	-3.16098	1.37144	-0.11300	-1.49679	0.55039	-0.00257	0.53822	0.74278	0.00058	0.72235
0.26561	-3.16637	1.37065	-0.11686	-1.49507	0.55833	-0.00258	0.54911	0.73860	0.00018	0.72783
0.27186	-3.18818	1.37006	-0.12052	-1.49078	0.56273	-0.00257	0.55087	0.73665	-0.00022	0.73338
0.27826	-3.23529	1.36935	-0.12399	-1.48164	0.56205	-0.00256	0.54031	0.73767	-0.00062	0.73867
0.28480	-3.29478	1.36949	-0.12735	-1.47101	0.55953	-0.00255	0.52521	0.73999	-0.00105	0.74400
0.29150	-3.35539	1.37148	-0.13063	-1.46231	0.55826	-0.00254	0.51165	0.74223	-0.00139	0.74875
0.29836	-3.42014	1.37475	-0.13384	-1.45475	0.55859	-0.00253	0.49739	0.74473	-0.00142	0.75148

0.30539	-3.49200	1.37756	-0.13708	-1.44600	0.56052	-0.00252	0.48008	0.74775	-0.00109	0.75168
0.31257	-3.56213	1.37873	-0.14065	-1.43627	0.56484	-0.00253	0.46268	0.75040	-0.00058	0.75046
0.31993	-3.61772	1.37902	-0.14475	-1.42858	0.57276	-0.00253	0.45053	0.75137	-0.00004	0.74890
0.32745	-3.65866	1.37975	-0.14920	-1.42417	0.58318	-0.00254	0.44441	0.75066	0.00054	0.74697
0.33517	-3.69248	1.38102	-0.15379	-1.42159	0.59279	-0.00255	0.44221	0.74894	0.00116	0.74433
0.34304	-3.72717	1.38183	-0.15843	-1.41811	0.59783	-0.00254	0.44120	0.74691	0.00172	0.74145
0.35112	-3.76389	1.38143	-0.16317	-1.41266	0.59759	-0.00252	0.44110	0.74450	0.00208	0.73957
0.35938	-3.79616	1.38017	-0.16806	-1.40694	0.59559	-0.00249	0.44455	0.74096	0.00215	0.73931
0.36784	-3.81969	1.37948	-0.17312	-1.40338	0.59683	-0.00248	0.45425	0.73564	0.00213	0.73969
0.37649	-3.83140	1.38073	-0.17831	-1.40421	0.60496	-0.00248	0.47240	0.72819	0.00218	0.73970
0.38536	-3.83751	1.38420	-0.18342	-1.40878	0.61898	-0.00250	0.49624	0.71962	0.00232	0.73911
0.39442	-3.84027	1.38979	-0.18834	-1.41683	0.63618	-0.00253	0.52436	0.71044	0.00258	0.73797
0.40370	-3.83681	1.39730	-0.19319	-1.42891	0.65500	-0.00255	0.55821	0.70040	0.00301	0.73616
0.41321	-3.82608	1.40592	-0.19805	-1.44442	0.67401	-0.00257	0.59808	0.68951	0.00357	0.73420
0.42292	-3.81192	1.41425	-0.20291	-1.46113	0.69112	-0.00257	0.64131	0.67829	0.00412	0.73281
0.43288	-3.79898	1.42085	-0.20788	-1.47644	0.70454	-0.00256	0.68470	0.66716	0.00455	0.73255
0.44307	-3.79065	1.42459	-0.21309	-1.48817	0.71352	-0.00253	0.72555	0.65642	0.00474	0.73403
0.45349	-3.79213	1.42517	-0.21856	-1.49464	0.71778	-0.00249	0.76022	0.64662	0.00466	0.73741
0.46417	-3.81176	1.42305	-0.22414	-1.49435	0.71739	-0.00244	0.78289	0.63864	0.00430	0.74278
0.47508	-3.85252	1.41930	-0.22965	-1.48751	0.71369	-0.00239	0.79145	0.63285	0.00366	0.75000
0.48626	-3.91906	1.41502	-0.23498	-1.47425	0.70772	-0.00235	0.78267	0.62992	0.00281	0.75848
0.49771	-4.01537	1.41112	-0.24004	-1.45479	0.69967	-0.00233	0.75406	0.63049	0.00190	0.76724
0.50942	-4.14414	1.40831	-0.24477	-1.42954	0.68908	-0.00231	0.70605	0.63490	0.00112	0.77492
0.52140	-4.29671	1.40713	-0.24925	-1.40101	0.67679	-0.00230	0.64710	0.64224	0.00066	0.78045
0.53367	-4.45359	1.40778	-0.25366	-1.37346	0.66496	-0.00230	0.59058	0.65035	0.00050	0.78394
0.54624	-4.59387	1.41019	-0.25815	-1.35120	0.65553	-0.00229	0.54731	0.65686	0.00054	0.78631
0.55910	-4.70989	1.41428	-0.26266	-1.33579	0.64920	-0.00227	0.51994	0.66061	0.00071	0.78803
0.57225	-4.80349	1.42008	-0.26697	-1.32687	0.64654	-0.00225	0.50670	0.66152	0.00106	0.78875
0.58569	-4.88070	1.42711	-0.27097	-1.32266	0.64776	-0.00224	0.50363	0.66022	0.00158	0.78844
0.59948	-4.94903	1.43439	-0.27477	-1.32057	0.65270	-0.00223	0.50632	0.65750	0.00216	0.78769
0.61357	-5.01484	1.44107	-0.27846	-1.31833	0.66127	-0.00224	0.51117	0.65403	0.00284	0.78635
0.62802	-5.08082	1.44680	-0.28216	-1.31500	0.67343	-0.00227	0.51697	0.64995	0.00360	0.78438
0.64280	-5.14609	1.45150	-0.28594	-1.31066	0.68823	-0.00231	0.52372	0.64526	0.00437	0.78240
0.65794	-5.20914	1.45538	-0.28991	-1.30588	0.70411	-0.00235	0.53190	0.63991	0.00504	0.78115
0.67340	-5.27318	1.45845	-0.29410	-1.30005	0.71885	-0.00240	0.53895	0.63459	0.00555	0.78103
0.68927	-5.34234	1.46075	-0.29859	-1.29239	0.73101	-0.00244	0.54285	0.62976	0.00586	0.78224
0.70547	-5.41602	1.46257	-0.30338	-1.28337	0.74020	-0.00248	0.54438	0.62530	0.00599	0.78466
0.72207	-5.49663	1.46469	-0.30837	-1.27349	0.74640	-0.00252	0.54349	0.62128	0.00608	0.78725
0.73910	-5.59034	1.46799	-0.31336	-1.26264	0.74930	-0.00255	0.53791	0.61833	0.00643	0.78795
0.75649	-5.69567	1.47294	-0.31837	-1.25171	0.74983	-0.00258	0.52944	0.61614	0.00718	0.78559
0.77429	-5.80957	1.47929	-0.32345	-1.24098	0.74848	-0.00261	0.51989	0.61428	0.00818	0.78085
0.79246	-5.92360	1.48650	-0.32856	-1.23151	0.74630	-0.00262	0.51367	0.61171	0.00908	0.77573
0.81116	-6.03240	1.49430	-0.33365	-1.22416	0.74452	-0.00264	0.51434	0.60746	0.00962	0.77206
0.83022	-6.13369	1.50253	-0.33856	-1.21922	0.74343	-0.00265	0.52283	0.60129	0.00976	0.77034
0.84976	-6.23318	1.51140	-0.34324	-1.21577	0.74215	-0.00265	0.53637	0.59391	0.00970	0.76969
0.86972	-6.33983	1.52093	-0.34761	-1.21199	0.73915	-0.00265	0.54873	0.58676	0.00970	0.76859
0.89023	-6.45797	1.53114	-0.35172	-1.20695	0.73360	-0.00264	0.55683	0.58049	0.00996	0.76606
0.91116	-6.58325	1.54153	-0.35561	-1.20084	0.72538	-0.00261	0.56194	0.57480	0.01046	0.76252
0.93257	-6.71307	1.55164	-0.35937	-1.19355	0.71443	-0.00258	0.56516	0.56938	0.01111	0.75860
0.95456	-6.84134	1.56117	-0.36320	-1.18589	0.70137	-0.00254	0.56998	0.56348	0.01184	0.75468
0.97704	-6.96417	1.56992	-0.36715	-1.17824	0.68714	-0.00250	0.57792	0.55684	0.01257	0.75122
1.00000	-7.07999	1.57790	-0.37115	-1.17084	0.67295	-0.00244	0.58930	0.54947	0.01313	0.74935
1.02354	-7.18803	1.58540	-0.37509	-1.16406	0.65998	-0.00239	0.60461	0.54145	0.01337	0.75008
1.04767	-7.28774	1.59275	-0.37885	-1.15828	0.64917	-0.00234	0.62406	0.53301	0.01326	0.75378
1.07227	-7.37981	1.60023	-0.38233	-1.15365	0.64131	-0.00229	0.64637	0.52467	0.01288	0.75998
1.09745	-7.46561	1.60806	-0.38553	-1.15020	0.63670	-0.00225	0.67011	0.51682	0.01230	0.76805
1.12334	-7.54755	1.61625	-0.38848	-1.14750	0.63483	-0.00221	0.69272	0.50997	0.01159	0.77757
1.14982	-7.62837	1.62463	-0.39118	-1.14471	0.63447	-0.00218	0.71025	0.50475	0.01076	0.78822
1.17675	-7.70915	1.63307	-0.39365	-1.14143	0.63467	-0.00215	0.72068	0.50139	0.00984	0.79960
1.20453	-7.79193	1.64176	-0.39594	-1.13751	0.63513	-0.00212	0.72340	0.49985	0.00885	0.81141
1.23289	-7.87720	1.65070	-0.39799	-1.13287	0.63560	-0.00210	0.71784	0.50019	0.00788	0.82285
1.26183	-7.96482	1.66000	-0.39985	-1.12765	0.63617	-0.00208	0.70528	0.50213	0.00699	0.83324
1.29149	-8.05353	1.66975	-0.40160	-1.12233	0.63720	-0.00206	0.68860	0.50519	0.00626	0.84207
1.32188	-8.13965	1.67993	-0.40334	-1.11775	0.63960	-0.00205	0.67237	0.50853	0.00576	0.84894
1.35300	-8.22011	1.69045	-0.40519	-1.11459	0.64427	-0.00205	0.66026	0.51137	0.00551	0.85375
1.38485	-8.29267	1.70120	-0.40723	-1.11332	0.65176	-0.00205	0.65485	0.51310	0.00550	0.85672
1.41743	-8.35670	1.71205	-0.40952	-1.11402	0.66213	-0.00206	0.65681	0.51348	0.00567	0.85837
1.45075	-8.41486	1.72292	-0.41199	-1.11614	0.67482	-0.00208	0.66427	0.51278	0.00598	0.85921
1.48500	-8.47262	1.73373	-0.41467	-1.11854	0.68875	-0.00210	0.67352	0.51153	0.00640	0.85961
1.51999	-8.53380	1.74434	-0.41745	-1.12030	0.70306	-0.00213	0.68195	0.51006	0.00690	0.85979
1.55569	-8.60172	1.75469	-0.42029	-1.12077	0.71715	-0.00217	0.68801	0.50850	0.00749	0.85985
1.59236	-8.67806	1.76482	-0.42319	-1.11975	0.73059	-0.00222	0.69194	0.50667	0.00817	0.85981
1.62973	-8.76249	1.77467	-0.42609	-1.11732	0.74290	-0.00227	0.69491	0.50428	0.00895	0.85975
1.66806	-8.85586	1.78426	-0.42891	-1.11351	0.75337	-0.00232	0.69815	0.50102	0.00980	0.85996
1.70736	-8.95753	1.79356	-0.43162	-1.10850	0.76126	-0.00237	0.70356	0.49648	0.01068	0.86078
1.74764	-9.06584	1.80260	-0.43418	-1.10274	0.76635	-0.00241	0.71368	0.49024	0.01154	0.86248
1.78859	-9.17831	1.81134	-0.43658	-1.09673	0.76894	-0.00245	0.73059	0.48203	0.01236	0.86519
1.83083	-9.29545	1.81997	-0.43881	-1.09076	0.76965	-0.00248	0.75652	0.47152	0.01310	0.86920
1.87371	-9.41420	1.82837	-0.44078	-1.08520	0.76918	-0.00250	0.79284	0.45879	0.01372	0.87467
1.91791	-9.53654	1.83672	-0.44243	-1.08001	0.76796	-0.00252	0.84080	0.44386	0.01422	0.88145
1.96309	-9.66272	1.84504	-0.44363	-1.07506	0.76590	-0.00253	0.89952	0.42728	0.01467	0.88891

2.00924	-9.79216	1.85345	-0.44431	-1.07060	0.76384	-0.00254	0.97059	0.40923	0.01515	0.89617
2.05634	-9.92362	1.86200	-0.44436	-1.06693	0.76262	-0.00254	1.05709	0.38973	0.01573	0.90248
2.10482	-10.05647	1.87073	-0.44373	-1.06426	0.76263	-0.00255	1.16400	0.36866	0.01644	0.90751
2.15424	-10.18767	1.87949	-0.44241	-1.06278	0.76403	-0.00255	1.29506	0.34636	0.01726	0.91109
2.20507	-10.31738	1.88830	-0.44038	-1.06248	0.76685	-0.00255	1.45491	0.32300	0.01814	0.91329
2.25683	-10.44459	1.89714	-0.43767	-1.06325	0.77063	-0.00255	1.64345	0.29936	0.01909	0.91409
2.31000	-10.57148	1.90616	-0.43432	-1.06481	0.77502	-0.00255	1.86152	0.27584	0.02013	0.91336
2.36463	-10.69917	1.91544	-0.43039	-1.06688	0.77961	-0.00255	2.10605	0.25301	0.02129	0.91096
2.42014	-10.82672	1.92487	-0.42601	-1.06922	0.78433	-0.00255	2.37110	0.23141	0.02255	0.90707
2.47709	-10.95533	1.93446	-0.42119	-1.07170	0.78937	-0.00255	2.65512	0.21105	0.02385	0.90219
2.53550	-11.08533	1.94417	-0.41602	-1.07404	0.79460	-0.00254	2.95043	0.19217	0.02511	0.89719
2.59471	-11.21576	1.95388	-0.41068	-1.07595	0.79961	-0.00254	3.24383	0.17522	0.02622	0.89297
2.65604	-11.35029	1.96374	-0.40511	-1.07714	0.80401	-0.00254	3.53066	0.15998	0.02713	0.88998
2.71887	-11.48646	1.97370	-0.39946	-1.07775	0.80773	-0.00253	3.80208	0.14661	0.02782	0.88861
2.78242	-11.62202	1.98366	-0.39385	-1.07795	0.81091	-0.00252	4.05086	0.13520	0.02829	0.88887
2.84819	-11.75895	1.99377	-0.38820	-1.07793	0.81388	-0.00252	4.28096	0.12537	0.02855	0.89082
2.91545	-11.89547	2.00403	-0.38264	-1.07775	0.81678	-0.00251	4.48773	0.11711	0.02863	0.89439
2.98329	-12.02896	2.01413	-0.37721	-1.07751	0.81963	-0.00250	4.66881	0.11041	0.02855	0.89924
3.05344	-12.16293	2.02444	-0.37185	-1.07718	0.82254	-0.00250	4.82894	0.10490	0.02836	0.90518
3.12598	-12.29702	2.03481	-0.36651	-1.07683	0.82551	-0.00249	4.96701	0.10056	0.02806	0.91192
3.19898	-12.42825	2.04507	-0.36140	-1.07633	0.82825	-0.00249	5.07670	0.09741	0.02770	0.91894
3.27439	-12.56005	2.05541	-0.35633	-1.07571	0.83084	-0.00248	5.16101	0.09532	0.02726	0.92608
3.35121	-12.69038	2.06571	-0.35143	-1.07499	0.83328	-0.00247	5.21915	0.09421	0.02678	0.93305
3.43053	-12.82118	2.07606	-0.34657	-1.07420	0.83560	-0.00247	5.25323	0.09402	0.02624	0.94010
3.51124	-12.95046	2.08637	-0.34189	-1.07331	0.83780	-0.00246	5.26498	0.09458	0.02566	0.94736
3.59324	-13.07774	2.09646	-0.33729	-1.07242	0.83986	-0.00246	5.25704	0.09587	0.02504	0.95510
3.67782	-13.20608	2.10685	-0.33282	-1.07141	0.84185	-0.00245	5.23257	0.09768	0.02439	0.96371
3.76506	-13.33331	2.11688	-0.32831	-1.07044	0.84375	-0.00245	5.19457	0.10003	0.02370	0.97355
3.85356	-13.46098	2.12739	-0.32400	-1.06935	0.84559	-0.00244	5.14469	0.10271	0.02298	0.98435
3.94477	-13.58618	2.13723	-0.31962	-1.06835	0.84737	-0.00244	5.08768	0.10572	0.02226	0.99598
4.03714	-13.71273	2.14770	-0.31537	-1.06724	0.84908	-0.00243	5.02169	0.10897	0.02153	1.00796
4.13223	-13.83737	2.15775	-0.31115	-1.06617	0.85077	-0.00242	4.95308	0.11235	0.02082	1.02011
4.23012	-13.96258	2.16785	-0.30682	-1.06518	0.85246	-0.00242	4.87859	0.11601	0.02010	1.03213
4.32900	-14.08879	2.17861	-0.30270	-1.06405	0.85408	-0.00241	4.80144	0.11967	0.01942	1.04337
4.43066	-14.20993	2.18813	-0.29842	-1.06316	0.85572	-0.00241	4.72649	0.12340	0.01875	1.05399
4.53515	-14.33685	2.19898	-0.29414	-1.06214	0.85732	-0.00240	4.64565	0.12731	0.01809	1.06405
4.64253	-14.46260	2.20967	-0.28993	-1.06115	0.85892	-0.00240	4.56824	0.13108	0.01746	1.07342
4.75059	-14.58147	2.21908	-0.28557	-1.06048	0.86055	-0.00239	4.49514	0.13486	0.01686	1.08209
4.86145	-14.70900	2.23052	-0.28128	-1.05956	0.86212	-0.00238	4.41705	0.13872	0.01626	1.09025
4.97760	-14.83421	2.24116	-0.27696	-1.05874	0.86372	-0.00238	4.34433	0.14244	0.01568	1.09802
5.09424	-14.95280	2.25056	-0.27245	-1.05821	0.86531	-0.00237	4.27531	0.14614	0.01510	1.10531
5.21376	-15.08257	2.26254	-0.26802	-1.05733	0.86680	-0.00236	4.20085	0.14993	0.01454	1.11224
5.33618	-15.20650	2.27334	-0.26371	-1.05655	0.86828	-0.00235	4.13494	0.15337	0.01401	1.11879
5.46150	-15.32200	2.28216	-0.25910	-1.05618	0.86983	-0.00235	4.07488	0.15677	0.01348	1.12524
5.58971	-15.45060	2.29395	-0.25449	-1.05547	0.87128	-0.00234	4.00800	0.16033	0.01295	1.13165
5.72082	-15.58009	2.30615	-0.25013	-1.05461	0.87264	-0.00233	3.94548	0.16361	0.01245	1.13797
5.85823	-15.69412	2.31449	-0.24545	-1.05437	0.87420	-0.00233	3.89463	0.16665	0.01196	1.14460
5.99520	-15.81455	2.32464	-0.24066	-1.05402	0.87567	-0.00232	3.83983	0.16983	0.01146	1.15129
6.13497	-15.94903	2.33809	-0.23608	-1.05321	0.87697	-0.00231	3.78041	0.17301	0.01099	1.15801
6.28141	-16.06980	2.34832	-0.23161	-1.05274	0.87838	-0.00230	3.73345	0.17575	0.01055	1.16490
6.42674	-16.17454	2.35540	-0.22692	-1.05284	0.87991	-0.00229	3.69493	0.17831	0.01012	1.17183
6.57895	-16.29934	2.36652	-0.22196	-1.05258	0.88136	-0.00228	3.64706	0.18120	0.00967	1.17910
6.73401	-16.43820	2.38100	-0.21730	-1.05183	0.88262	-0.00227	3.59525	0.18406	0.00925	1.18635
6.89180	-16.55032	2.38991	-0.21296	-1.05163	0.88401	-0.00227	3.56044	0.18628	0.00887	1.19356
7.05716	-16.65160	2.39593	-0.20812	-1.05202	0.88561	-0.00226	3.53136	0.18848	0.00847	1.20114
7.22022	-16.76846	2.40594	-0.20326	-1.05203	0.88704	-0.00225	3.49462	0.19089	0.00807	1.20839
7.39098	-16.90896	2.42090	-0.19840	-1.05149	0.88832	-0.00224	3.44948	0.19351	0.00769	1.21553
7.56430	-17.03071	2.43220	-0.19418	-1.05112	0.88957	-0.00223	3.41624	0.19555	0.00736	1.22216
7.73994	-17.11551	2.43550	-0.18985	-1.05176	0.89111	-0.00222	3.39997	0.19710	0.00703	1.22849
7.92393	-17.22056	2.44277	-0.18498	-1.05219	0.89264	-0.00222	3.37498	0.19905	0.00668	1.23459
8.11030	-17.34402	2.45425	-0.18004	-1.05225	0.89404	-0.00221	3.34291	0.20121	0.00634	1.24017
8.29876	-17.48891	2.47077	-0.17538	-1.05168	0.89520	-0.00219	3.30369	0.20349	0.00603	1.24513
8.49618	-17.59671	2.47915	-0.17141	-1.05168	0.89647	-0.00218	3.28269	0.20499	0.00576	1.24983
8.69565	-17.66807	2.47967	-0.16725	-1.05266	0.89802	-0.00218	3.27600	0.20610	0.00547	1.25452
8.90472	-17.77027	2.48644	-0.16248	-1.05325	0.89953	-0.00217	3.25744	0.20771	0.00516	1.25921
9.11577	-17.88494	2.49618	-0.15765	-1.05362	0.90094	-0.00216	3.23459	0.20945	0.00486	1.26377
9.32836	-18.03267	2.51340	-0.15273	-1.05331	0.90215	-0.00215	3.20021	0.21157	0.00459	1.26816
9.54198	-18.15978	2.52679	-0.14890	-1.05293	0.90319	-0.00214	3.17506	0.21310	0.00437	1.27247
9.76563	-18.21774	2.52489	-0.14553	-1.05393	0.90457	-0.00213	3.17602	0.21370	0.00414	1.27754
10.00000	-18.29043	2.52564	-0.14131	-1.05501	0.90609	-0.00213	3.17181	0.21464	0.00386	1.28347

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Low stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 305 - 610 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.65241	3.37217	-0.04653	-1.69501	1.03618	-0.00099	1.21240	0.45641	-0.01550	0.32354
PGV	1.61215	1.89222	-0.12498	-2.41319	1.35333	-0.00145	5.24771	0.35522	-0.00882	0.40565
PGA	1.66685	1.54159	-0.07107	-2.79800	1.12311	-0.00140	5.44583	0.43778	-0.03034	0.73560
0.01000	2.12591	1.55522	-0.07018	-2.89226	1.12871	-0.00129	6.00998	0.42946	-0.01772	0.72895
0.01024	2.11527	1.55717	-0.06954	-2.89115	1.12332	-0.00128	5.97925	0.43096	-0.01782	0.72962
0.01048	2.10792	1.55910	-0.06891	-2.89065	1.11815	-0.00127	5.95245	0.43236	-0.01793	0.73029
0.01072	2.10426	1.56100	-0.06829	-2.89082	1.11319	-0.00127	5.93016	0.43365	-0.01805	0.73096
0.01097	2.10413	1.56289	-0.06766	-2.89166	1.10842	-0.00126	5.91206	0.43486	-0.01818	0.73165
0.01123	2.10733	1.56477	-0.06704	-2.89311	1.10382	-0.00125	5.89778	0.43597	-0.01832	0.73236
0.01150	2.11364	1.56665	-0.06640	-2.89515	1.09938	-0.00124	5.88699	0.43701	-0.01846	0.73309
0.01177	2.12267	1.56854	-0.06577	-2.89770	1.09508	-0.00123	5.87915	0.43799	-0.01862	0.73384
0.01205	2.13478	1.57043	-0.06512	-2.90083	1.09090	-0.00122	5.87472	0.43889	-0.01878	0.73458
0.01233	2.15047	1.57234	-0.06447	-2.90464	1.08683	-0.00120	5.87420	0.43971	-0.01894	0.73532
0.01262	2.16820	1.57426	-0.06381	-2.90884	1.08281	-0.00119	5.87555	0.44050	-0.01912	0.73609
0.01292	2.18755	1.57616	-0.06313	-2.91330	1.07879	-0.00118	5.87851	0.44124	-0.01930	0.73693
0.01322	2.20960	1.57806	-0.06245	-2.91824	1.07480	-0.00116	5.88466	0.44193	-0.01950	0.73777
0.01353	2.23342	1.57996	-0.06176	-2.92349	1.07085	-0.00115	5.89254	0.44258	-0.01969	0.73860
0.01385	2.25774	1.58187	-0.06105	-2.92881	1.06691	-0.00114	5.90027	0.44323	-0.01987	0.73942
0.01417	2.28591	1.58380	-0.06034	-2.93486	1.06311	-0.00112	5.91230	0.44380	-0.02006	0.74025
0.01451	2.32169	1.58580	-0.05962	-2.94235	1.05955	-0.00111	5.93360	0.44420	-0.02027	0.74118
0.01485	2.36502	1.58788	-0.05890	-2.95128	1.05627	-0.00109	5.96390	0.44443	-0.02048	0.74225
0.01520	2.41476	1.59004	-0.05816	-2.96144	1.05323	-0.00107	6.00151	0.44453	-0.02072	0.74346
0.01556	2.46839	1.59226	-0.05740	-2.97236	1.05030	-0.00105	6.04315	0.44457	-0.02096	0.74483
0.01592	2.52140	1.59449	-0.05662	-2.98314	1.04726	-0.00103	6.08307	0.44465	-0.02123	0.74636
0.01630	2.57351	1.59671	-0.05581	-2.99372	1.04402	-0.00101	6.12072	0.44479	-0.02150	0.74807
0.01668	2.62497	1.59894	-0.05497	-3.00414	1.04058	-0.00099	6.15626	0.44498	-0.02178	0.74981
0.01707	2.67558	1.60118	-0.05410	-3.01437	1.03702	-0.00097	6.18940	0.44523	-0.02204	0.75148
0.01748	2.72731	1.60341	-0.05320	-3.02475	1.03330	-0.00095	6.22323	0.44547	-0.02230	0.75320
0.01789	2.78615	1.60565	-0.05232	-3.03636	1.02954	-0.00093	6.26660	0.44556	-0.02258	0.75512
0.01831	2.85379	1.60792	-0.05147	-3.04954	1.02595	-0.00091	6.32180	0.44544	-0.02288	0.75711
0.01874	2.92217	1.61017	-0.05064	-3.06280	1.02243	-0.00088	6.37762	0.44531	-0.02313	0.75882
0.01918	2.98737	1.61245	-0.04980	-3.07547	1.01883	-0.00086	6.42728	0.44531	-0.02335	0.76030
0.01963	3.05456	1.61483	-0.04892	-3.08850	1.01510	-0.00084	6.47723	0.44535	-0.02358	0.76191
0.02009	3.12765	1.61726	-0.04802	-3.10260	1.01138	-0.00082	6.53410	0.44528	-0.02385	0.76377
0.02057	3.20798	1.61975	-0.04711	-3.11798	1.00782	-0.00079	6.60087	0.44506	-0.02413	0.76568
0.02105	3.29567	1.62230	-0.04622	-3.13468	1.00422	-0.00077	6.67715	0.44470	-0.02440	0.76750
0.02154	3.38245	1.62491	-0.04529	-3.15116	0.99993	-0.00074	6.74980	0.44447	-0.02467	0.76934
0.02205	3.45812	1.62751	-0.04427	-3.16548	0.99469	-0.00071	6.80488	0.44459	-0.02497	0.77134
0.02257	3.52557	1.63010	-0.04316	-3.17819	0.98904	-0.00069	6.84709	0.44496	-0.02529	0.77354
0.02310	3.59192	1.63272	-0.04201	-3.19069	0.98334	-0.00067	6.88573	0.44541	-0.02567	0.77607
0.02364	3.65811	1.63531	-0.04085	-3.20304	0.97744	-0.00065	6.92362	0.44588	-0.02610	0.77902
0.02420	3.71978	1.63781	-0.03969	-3.21440	0.97150	-0.00063	6.95609	0.44643	-0.02652	0.78188
0.02477	3.77201	1.64031	-0.03848	-3.22399	0.96571	-0.00061	6.97512	0.44721	-0.02685	0.78418
0.02535	3.81698	1.64284	-0.03721	-3.23220	0.95964	-0.00060	6.98235	0.44821	-0.02716	0.78632
0.02595	3.85885	1.64527	-0.03597	-3.23966	0.95321	-0.00058	6.98493	0.44930	-0.02752	0.78876
0.02656	3.90912	1.64757	-0.03486	-3.24837	0.94688	-0.00057	7.00076	0.45015	-0.02789	0.79140
0.02719	3.97829	1.64987	-0.03390	-3.26030	0.94068	-0.00055	7.04461	0.45055	-0.02825	0.79392
0.02783	4.05728	1.65232	-0.03299	-3.27399	0.93452	-0.00053	7.10170	0.45077	-0.02856	0.79618
0.02848	4.12675	1.65483	-0.03204	-3.28594	0.92808	-0.00051	7.14444	0.45125	-0.02882	0.79817
0.02915	4.17309	1.65725	-0.03100	-3.29362	0.92108	-0.00050	7.15461	0.45226	-0.02909	0.80025
0.02984	4.20089	1.65950	-0.02985	-3.29789	0.91418	-0.00049	7.14012	0.45363	-0.02939	0.80266
0.03054	4.21726	1.66160	-0.02865	-3.30005	0.90753	-0.00049	7.11090	0.45520	-0.02968	0.80509
0.03126	4.22181	1.66376	-0.02738	-3.29995	0.90015	-0.00049	7.06299	0.45714	-0.02984	0.80681
0.03199	4.22178	1.66610	-0.02615	-3.29881	0.89103	-0.00049	7.00346	0.45942	-0.02993	0.80816
0.03275	4.23494	1.66852	-0.02511	-3.29999	0.88136	-0.00048	6.95904	0.46150	-0.03004	0.80977
0.03352	4.25971	1.67094	-0.02422	-3.30327	0.87215	-0.00047	6.93215	0.46326	-0.03019	0.81165
0.03430	4.26892	1.67323	-0.02329	-3.30349	0.86281	-0.00047	6.88950	0.46528	-0.03031	0.81341
0.03511	4.25314	1.67525	-0.02221	-3.29896	0.85419	-0.00047	6.82021	0.46769	-0.03043	0.81525
0.03594	4.23046	1.67695	-0.02108	-3.29299	0.84754	-0.00049	6.74931	0.47001	-0.03063	0.81755
0.03678	4.19592	1.67829	-0.01998	-3.28448	0.84177	-0.00051	6.66983	0.47242	-0.03095	0.82073
0.03765	4.12351	1.67923	-0.01888	-3.26869	0.83485	-0.00053	6.54513	0.47564	-0.03135	0.82440
0.03854	4.00901	1.67993	-0.01764	-3.24526	0.82641	-0.00057	6.36568	0.47993	-0.03169	0.82772
0.03944	3.87576	1.68069	-0.01627	-3.21877	0.81737	-0.00061	6.16079	0.48482	-0.03202	0.83089
0.04037	3.74727	1.68175	-0.01495	-3.19333	0.80740	-0.00064	5.96311	0.48978	-0.03233	0.83403
0.04132	3.62565	1.68299	-0.01379	-3.16910	0.79572	-0.00067	5.77708	0.49474	-0.03255	0.83656
0.04229	3.51798	1.68430	-0.01278	-3.14727	0.78378	-0.00069	5.61303	0.49940	-0.03263	0.83818
0.04329	3.44343	1.68560	-0.01188	-3.13128	0.77455	-0.00071	5.49460	0.50309	-0.03259	0.83894
0.04431	3.37312	1.68683	-0.01096	-3.11596	0.76726	-0.00074	5.38400	0.50660	-0.03249	0.83917
0.04535	3.27256	1.68787	-0.00994	-3.09485	0.75878	-0.00077	5.24017	0.51098	-0.03233	0.83889

0.04642	3.17091	1.68866	-0.00905	-3.07311	0.74976	-0.00081	5.10097	0.51534	-0.03213	0.83831
0.04751	3.10628	1.68939	-0.00845	-3.05783	0.74329	-0.00084	5.01227	0.51848	-0.03193	0.83762
0.04863	3.06400	1.68998	-0.00801	-3.04644	0.73949	-0.00087	4.95576	0.52075	-0.03178	0.83709
0.04977	3.02057	1.69025	-0.00760	-3.03501	0.73705	-0.00090	4.90035	0.52284	-0.03175	0.83721
0.05094	2.94397	1.69020	-0.00699	-3.01795	0.73445	-0.00094	4.80466	0.52584	-0.03196	0.83894
0.05214	2.80847	1.68983	-0.00589	-2.99005	0.72892	-0.00099	4.64086	0.53075	-0.03241	0.84231
0.05337	2.62459	1.68898	-0.00442	-2.95256	0.72005	-0.00104	4.43027	0.53723	-0.03292	0.84622
0.05462	2.42097	1.68779	-0.00293	-2.91075	0.70972	-0.00110	4.20926	0.54436	-0.03345	0.85031
0.05591	2.22297	1.68705	-0.00160	-2.87012	0.69957	-0.00116	4.00120	0.55152	-0.03385	0.85361
0.05722	2.03550	1.68706	-0.00040	-2.83220	0.69055	-0.00122	3.80634	0.55862	-0.03393	0.85484
0.05857	1.85158	1.68770	0.00083	-2.79585	0.68218	-0.00128	3.61604	0.56592	-0.03368	0.85404
0.05995	1.66304	1.68844	0.00217	-2.75908	0.67259	-0.00133	3.42429	0.57365	-0.03319	0.85176
0.06136	1.48240	1.68819	0.00336	-2.72323	0.66270	-0.00137	3.24719	0.58103	-0.03257	0.84844
0.06280	1.34063	1.68695	0.00408	-2.69381	0.65557	-0.00141	3.11231	0.58681	-0.03188	0.84471
0.06428	1.23023	1.68548	0.00444	-2.67006	0.65116	-0.00145	3.00729	0.59143	-0.03122	0.84131
0.06579	1.12748	1.68372	0.00457	-2.64754	0.64702	-0.00148	2.90961	0.59583	-0.03073	0.83912
0.06734	1.02475	1.68125	0.00440	-2.62425	0.64182	-0.00151	2.81548	0.60016	-0.03051	0.83896
0.06893	0.92388	1.67804	0.00398	-2.60032	0.63645	-0.00154	2.72967	0.60419	-0.03045	0.84000
0.07055	0.82995	1.67448	0.00346	-2.57683	0.63066	-0.00157	2.65648	0.60776	-0.03042	0.84106
0.07221	0.74825	1.67085	0.00302	-2.55481	0.62450	-0.00160	2.59781	0.61084	-0.03058	0.84318
0.07391	0.66802	1.66787	0.00281	-2.53322	0.61968	-0.00164	2.54112	0.61399	-0.03096	0.84688
0.07565	0.57526	1.66603	0.00275	-2.51038	0.61561	-0.00168	2.47232	0.61796	-0.03128	0.85011
0.07743	0.43294	1.66428	0.00287	-2.47885	0.60962	-0.00173	2.36465	0.62411	-0.03138	0.85181
0.07925	0.24161	1.66130	0.00319	-2.43819	0.60298	-0.00179	2.22217	0.63221	-0.03144	0.85299
0.08111	0.03102	1.65685	0.00357	-2.39371	0.59729	-0.00185	2.06965	0.64105	-0.03160	0.85469
0.08302	-0.16478	1.65173	0.00385	-2.35153	0.59378	-0.00191	1.93316	0.64932	-0.03180	0.85675
0.08498	-0.32083	1.64665	0.00386	-2.31629	0.59378	-0.00197	1.83147	0.65568	-0.03195	0.85877
0.08697	-0.42647	1.64206	0.00358	-2.29017	0.59633	-0.00203	1.76954	0.65959	-0.03197	0.86028
0.08902	-0.50235	1.63870	0.00340	-2.27002	0.59857	-0.00207	1.72679	0.66255	-0.03177	0.86037
0.09112	-0.58308	1.63646	0.00360	-2.24978	0.59887	-0.00212	1.67671	0.66646	-0.03140	0.85941
0.09326	-0.66366	1.63418	0.00372	-2.23009	0.59864	-0.00216	1.62345	0.67067	-0.03098	0.85841
0.09545	-0.73753	1.63047	0.00328	-2.21129	0.59959	-0.00219	1.57498	0.67420	-0.03049	0.85707
0.09770	-0.83307	1.62507	0.00255	-2.18756	0.60177	-0.00223	1.51750	0.67814	-0.02998	0.85573
0.10000	-0.94404	1.61874	0.00153	-2.16009	0.60395	-0.00228	1.45401	0.68261	-0.02956	0.85526
0.10235	-1.04916	1.61177	0.00002	-2.13310	0.60541	-0.00232	1.39363	0.68693	-0.02923	0.85548
0.10476	-1.15239	1.60463	-0.00183	-2.10670	0.60557	-0.00235	1.33185	0.69157	-0.02890	0.85579
0.10723	-1.27006	1.59748	-0.00365	-2.07778	0.60184	-0.00238	1.25992	0.69763	-0.02857	0.85613
0.10975	-1.38969	1.59097	-0.00545	-2.04865	0.59389	-0.00239	1.18787	0.70444	-0.02815	0.85577
0.11233	-1.49448	1.58544	-0.00734	-2.02227	0.58351	-0.00240	1.12774	0.71074	-0.02751	0.85406
0.11498	-1.59851	1.58019	-0.00903	-1.99566	0.57132	-0.00240	1.07028	0.71736	-0.02674	0.85147
0.11768	-1.71064	1.57413	-0.01049	-1.96724	0.55823	-0.00240	1.00873	0.72475	-0.02607	0.84917
0.12045	-1.82191	1.56667	-0.01187	-1.93842	0.54787	-0.00240	0.94987	0.73180	-0.02560	0.84745
0.12328	-1.93909	1.55814	-0.01293	-1.90748	0.54111	-0.00242	0.89219	0.73886	-0.02547	0.84752
0.12619	-2.05476	1.54833	-0.01404	-1.87554	0.53628	-0.00245	0.83781	0.74564	-0.02572	0.85004
0.12916	-2.14133	1.53731	-0.01604	-1.84837	0.53377	-0.00247	0.79722	0.75024	-0.02613	0.85362
0.13219	-2.21184	1.52584	-0.01861	-1.82413	0.53353	-0.00249	0.76403	0.75360	-0.02665	0.85779
0.13531	-2.27742	1.51570	-0.02111	-1.80203	0.53566	-0.00252	0.73483	0.75660	-0.02708	0.86135
0.13849	-2.31658	1.50892	-0.02367	-1.78798	0.54175	-0.00254	0.72036	0.75745	-0.02720	0.86277
0.14175	-2.31870	1.50582	-0.02644	-1.78459	0.55348	-0.00257	0.72484	0.75512	-0.02686	0.86107
0.14508	-2.30358	1.50456	-0.02925	-1.78670	0.57075	-0.00260	0.73865	0.75100	-0.02595	0.85563
0.14850	-2.28870	1.50285	-0.03225	-1.78847	0.58997	-0.00264	0.75314	0.74654	-0.02453	0.84650
0.15199	-2.27644	1.49961	-0.03588	-1.78801	0.60552	-0.00268	0.76610	0.74230	-0.02276	0.83443
0.15557	-2.26701	1.49528	-0.04010	-1.78608	0.61523	-0.00269	0.77629	0.73858	-0.02098	0.82172
0.15923	-2.27067	1.49065	-0.04430	-1.78191	0.62110	-0.00269	0.77891	0.73618	-0.01955	0.81124
0.16298	-2.31274	1.48465	-0.04792	-1.76951	0.62395	-0.00270	0.76227	0.73688	-0.01862	0.80461
0.16681	-2.39179	1.47625	-0.05110	-1.74748	0.62435	-0.00271	0.72796	0.74057	-0.01809	0.80145
0.17074	-2.47653	1.46811	-0.05397	-1.72356	0.62506	-0.00273	0.69225	0.74509	-0.01758	0.79885
0.17475	-2.55514	1.46283	-0.05653	-1.70275	0.62690	-0.00276	0.66177	0.74948	-0.01672	0.79415
0.17887	-2.64538	1.45917	-0.05880	-1.68103	0.62514	-0.00278	0.62872	0.75501	-0.01572	0.78875
0.18307	-2.74875	1.45464	-0.06111	-1.65595	0.61788	-0.00279	0.59194	0.76167	-0.01486	0.78473
0.18738	-2.84020	1.44844	-0.06380	-1.63196	0.61083	-0.00280	0.56157	0.76689	-0.01409	0.78136
0.19179	-2.90689	1.44146	-0.06667	-1.61249	0.60704	-0.00281	0.54222	0.76943	-0.01331	0.77783
0.19631	-2.96355	1.43444	-0.06951	-1.59519	0.60457	-0.00281	0.52680	0.77103	-0.01258	0.77454
0.20092	-3.01212	1.42831	-0.07253	-1.58055	0.60483	-0.00282	0.51365	0.77218	-0.01190	0.77165
0.20565	-3.04113	1.42467	-0.07575	-1.57245	0.61078	-0.00283	0.50772	0.77171	-0.01132	0.76960
0.21049	-3.04903	1.42369	-0.07905	-1.57143	0.62170	-0.00285	0.51051	0.76915	-0.01079	0.76783
0.21544	-3.04383	1.42306	-0.08277	-1.57345	0.63153	-0.00285	0.51804	0.76535	-0.00999	0.76429
0.22051	-3.03533	1.42049	-0.08716	-1.57388	0.63608	-0.00283	0.52574	0.76137	-0.00908	0.76031
0.22570	-3.03160	1.41619	-0.09184	-1.57118	0.63842	-0.00282	0.53231	0.75755	-0.00826	0.75736
0.23101	-3.04200	1.41094	-0.09642	-1.56473	0.64050	-0.00281	0.53430	0.75474	-0.00725	0.75357
0.23645	-3.07208	1.40504	-0.10081	-1.55389	0.64093	-0.00281	0.52824	0.75384	-0.00606	0.74851
0.24201	-3.11186	1.39930	-0.10507	-1.54103	0.64162	-0.00281	0.51936	0.75376	-0.00521	0.74506
0.24771	-3.15599	1.39425	-0.10909	-1.52757	0.64451	-0.00282	0.51135	0.75361	-0.00480	0.74402
0.25354	-3.21057	1.39028	-0.11272	-1.51300	0.64894	-0.00285	0.50111	0.75420	-0.00439	0.74286
0.25950	-3.26341	1.38904	-0.11611	-1.50146	0.65684	-0.00288	0.49288	0.75471	-0.00378	0.74099
0.26561	-3.30561	1.39103	-0.11939	-1.49514	0.66741	-0.00291	0.48913	0.75472	-0.00321	0.73995
0.27186	-3.34881	1.39381	-0.12258	-1.48970	0.67407	-0.00292	0.48310	0.75568	-0.00288	0.74061
0.27826	-3.39709	1.39438	-0.12609	-1.48181	0.67306	-0.00290	0.47252	0.75748	-0.00262	0.74156
0.28480	-3.43996	1.39185	-0.13039	-1.47247	0.66709	-0.00287	0.46346	0.75815	-0.00221	0.74127
0.29150	-3.47228	1.38797	-0.13517	-1.46388	0.66109	-0.00283	0.46017	0.75679	-0.00178	0.74054
0.29836	-3.49396	1.38517	-0.13986	-1.45824	0.65879	-0.00280	0.46332	0.75371	-0.00149	0.74055

0.30539	-3.51109	1.38393	-0.14429	-1.45498	0.66078	-0.00279	0.46979	0.74987	-0.00134	0.74128
0.31257	-3.52702	1.38275	-0.14887	-1.45219	0.66459	-0.00278	0.47700	0.74570	-0.00123	0.74209
0.31993	-3.54701	1.38126	-0.15363	-1.44894	0.66858	-0.00277	0.48217	0.74178	-0.00106	0.74238
0.32745	-3.57809	1.37988	-0.15857	-1.44447	0.67131	-0.00276	0.48207	0.73906	-0.00086	0.74223
0.33517	-3.61848	1.37832	-0.16390	-1.43840	0.67118	-0.00273	0.47737	0.73746	-0.00079	0.74264
0.34304	-3.65532	1.37653	-0.16952	-1.43250	0.66815	-0.00270	0.47423	0.73556	-0.00102	0.74470
0.35112	-3.67278	1.37568	-0.17499	-1.43083	0.66461	-0.00265	0.48104	0.73141	-0.00147	0.74803
0.35938	-3.67503	1.37674	-0.17977	-1.43371	0.66306	-0.00260	0.49757	0.72532	-0.00181	0.75061
0.36784	-3.69243	1.37949	-0.18345	-1.43537	0.66439	-0.00257	0.51098	0.72043	-0.00164	0.74978
0.37649	-3.74509	1.38309	-0.18629	-1.43121	0.66913	-0.00257	0.51103	0.71876	-0.00084	0.74467
0.38536	-3.82741	1.38598	-0.18921	-1.42085	0.67613	-0.00260	0.49850	0.71967	0.00029	0.73744
0.39442	-3.92297	1.38735	-0.19278	-1.40674	0.68263	-0.00264	0.48008	0.72154	0.00133	0.73081
0.40370	-4.00853	1.38785	-0.19710	-1.39405	0.68652	-0.00266	0.46625	0.72195	0.00198	0.72655
0.41321	-4.06180	1.38817	-0.20224	-1.38782	0.68666	-0.00265	0.46596	0.71872	0.00213	0.72548
0.42292	-4.07889	1.38833	-0.20817	-1.38861	0.68355	-0.00260	0.48117	0.71147	0.00180	0.72752
0.43288	-4.07993	1.38841	-0.21442	-1.39238	0.67876	-0.00254	0.50479	0.70235	0.00124	0.73153
0.44307	-4.08664	1.38865	-0.22028	-1.39494	0.67486	-0.00248	0.52755	0.69390	0.00073	0.73594
0.45349	-4.10680	1.38917	-0.22549	-1.39478	0.67415	-0.00244	0.54543	0.68696	0.00055	0.73927
0.46417	-4.14189	1.39010	-0.23011	-1.39179	0.67617	-0.00242	0.55634	0.68183	0.00093	0.73984
0.47508	-4.18117	1.39166	-0.23440	-1.38858	0.67940	-0.00241	0.56382	0.67764	0.00170	0.73836
0.48626	-4.21169	1.39384	-0.23869	-1.38784	0.68260	-0.00239	0.57413	0.67297	0.00235	0.73764
0.49771	-4.23601	1.39677	-0.24323	-1.38915	0.68423	-0.00236	0.58732	0.66786	0.00272	0.73861
0.50942	-4.27122	1.40044	-0.24820	-1.38914	0.68233	-0.00232	0.59635	0.66370	0.00302	0.73995
0.52140	-4.33830	1.40461	-0.25342	-1.38339	0.67629	-0.00229	0.59014	0.66264	0.00346	0.74024
0.53367	-4.44646	1.40890	-0.25864	-1.36968	0.66706	-0.00227	0.56285	0.66604	0.00400	0.73979
0.54624	-4.58835	1.41268	-0.26362	-1.34869	0.65522	-0.00226	0.51831	0.67373	0.00428	0.74115
0.55910	-4.74617	1.41580	-0.26819	-1.32366	0.64155	-0.00226	0.46745	0.68404	0.00403	0.74628
0.57225	-4.90092	1.41892	-0.27238	-1.29900	0.62798	-0.00226	0.42187	0.69441	0.00346	0.75392
0.58569	-5.04091	1.42258	-0.27634	-1.27759	0.61567	-0.00225	0.38783	0.70263	0.00296	0.76134
0.59948	-5.15531	1.42716	-0.28030	-1.26222	0.60731	-0.00225	0.36995	0.70632	0.00282	0.76610
0.61357	-5.23531	1.43268	-0.28442	-1.25500	0.60684	-0.00225	0.37099	0.70360	0.00316	0.76725
0.62802	-5.28202	1.43904	-0.28883	-1.25604	0.61558	-0.00226	0.39012	0.69461	0.00389	0.76544
0.64280	-5.30817	1.44617	-0.29346	-1.26285	0.63022	-0.00227	0.42136	0.68197	0.00492	0.76169
0.65794	-5.32736	1.45385	-0.29821	-1.27212	0.64624	-0.00228	0.45770	0.66856	0.00595	0.75829
0.67340	-5.34487	1.46190	-0.30309	-1.28188	0.66110	-0.00228	0.49524	0.65592	0.00669	0.75734
0.68927	-5.36247	1.47012	-0.30816	-1.29120	0.67380	-0.00228	0.53265	0.64445	0.00708	0.75899
0.70547	-5.38430	1.47799	-0.31332	-1.29878	0.68336	-0.00228	0.56712	0.63453	0.00723	0.76228
0.72207	-5.42090	1.48517	-0.31836	-1.30248	0.68806	-0.00227	0.59324	0.62677	0.00734	0.76557
0.73910	-5.47261	1.49187	-0.32310	-1.30276	0.68770	-0.00226	0.61064	0.62091	0.00755	0.76798
0.75649	-5.53678	1.49859	-0.32741	-1.30083	0.68347	-0.00224	0.62018	0.61675	0.00789	0.76916
0.77429	-5.61874	1.50544	-0.33134	-1.29575	0.67649	-0.00220	0.61769	0.61501	0.00845	0.76840
0.79246	-5.72294	1.51188	-0.33508	-1.28586	0.66799	-0.00218	0.59994	0.61620	0.00918	0.76567
0.81116	-5.85100	1.51756	-0.33877	-1.27033	0.65849	-0.00216	0.56798	0.62016	0.00994	0.76206
0.83022	-5.98673	1.52268	-0.34236	-1.25272	0.64980	-0.00215	0.53383	0.62464	0.01051	0.75913
0.84976	-6.11888	1.52750	-0.34595	-1.23586	0.64252	-0.00215	0.50564	0.62768	0.01082	0.75744
0.86972	-6.23957	1.53211	-0.34970	-1.22163	0.63686	-0.00214	0.48811	0.62781	0.01102	0.75630
0.89023	-6.34121	1.53698	-0.35377	-1.21222	0.63395	-0.00212	0.48604	0.62365	0.01129	0.75491
0.91116	-6.42729	1.54258	-0.35807	-1.20729	0.63306	-0.00210	0.49672	0.61617	0.01176	0.75268
0.93257	-6.50787	1.54912	-0.36236	-1.20485	0.63260	-0.00208	0.51353	0.60742	0.01247	0.74943
0.95456	-6.58645	1.55630	-0.36651	-1.20362	0.63231	-0.00205	0.53337	0.59835	0.01314	0.74676
0.97704	-6.66593	1.56373	-0.37037	-1.20222	0.63289	-0.00203	0.55320	0.58972	0.01348	0.74653
1.00000	-6.74977	1.57128	-0.37395	-1.19960	0.63516	-0.00204	0.57080	0.58199	0.01349	0.74867
1.02354	-6.84196	1.57920	-0.37729	-1.19527	0.63932	-0.00205	0.58431	0.57543	0.01345	0.75143
1.04767	-6.94214	1.58780	-0.38035	-1.18990	0.64512	-0.00208	0.59355	0.57001	0.01352	0.75380
1.07227	-7.04644	1.59732	-0.38311	-1.18477	0.65220	-0.00211	0.59941	0.56567	0.01358	0.75656
1.09745	-7.14923	1.60815	-0.38560	-1.18170	0.66098	-0.00214	0.60461	0.56200	0.01345	0.76104
1.12334	-7.24819	1.62048	-0.38789	-1.18155	0.67155	-0.00216	0.61093	0.55867	0.01307	0.76773
1.14982	-7.34375	1.63407	-0.39012	-1.18399	0.68298	-0.00218	0.61935	0.55533	0.01257	0.77565
1.17675	-7.44412	1.64819	-0.39236	-1.18649	0.69278	-0.00219	0.62634	0.55221	0.01213	0.78332
1.20453	-7.55913	1.66227	-0.39460	-1.18656	0.69960	-0.00220	0.62831	0.54941	0.01182	0.79014
1.23289	-7.68824	1.67577	-0.39666	-1.18371	0.70400	-0.00222	0.62700	0.54629	0.01163	0.79588
1.26183	-7.82422	1.68860	-0.39849	-1.17933	0.70769	-0.00224	0.62875	0.54161	0.01157	0.80051
1.29149	-7.96182	1.70070	-0.40024	-1.17433	0.71092	-0.00226	0.63764	0.53459	0.01158	0.80447
1.32188	-8.09654	1.71206	-0.40204	-1.16964	0.71384	-0.00228	0.65642	0.52491	0.01168	0.80792
1.35300	-8.22632	1.72283	-0.40394	-1.16586	0.71646	-0.00229	0.68661	0.51260	0.01197	0.81026
1.38485	-8.35202	1.73316	-0.40578	-1.16297	0.71875	-0.00230	0.72834	0.49806	0.01254	0.81101
1.41743	-8.47812	1.74312	-0.40731	-1.16011	0.72002	-0.00229	0.77878	0.48211	0.01337	0.81029
1.45075	-8.60861	1.75281	-0.40840	-1.15640	0.71951	-0.00229	0.83401	0.46563	0.01443	0.80819
1.48500	-8.74613	1.76239	-0.40907	-1.15134	0.71689	-0.00227	0.89141	0.44913	0.01568	0.80503
1.51999	-8.88931	1.77180	-0.40939	-1.14482	0.71246	-0.00225	0.94824	0.43312	0.01699	0.80178
1.55569	-9.03455	1.78107	-0.40953	-1.13737	0.70692	-0.00223	1.00475	0.41770	0.01820	0.79941
1.59236	-9.17790	1.79029	-0.40958	-1.12984	0.70136	-0.00221	1.06531	0.40245	0.01926	0.79841
1.62973	-9.31593	1.79946	-0.40958	-1.12275	0.69639	-0.00219	1.13160	0.38744	0.02010	0.79899
1.66806	-9.44809	1.80875	-0.40951	-1.11643	0.69227	-0.00217	1.20482	0.37271	0.02070	0.80140
1.70736	-9.57473	1.81829	-0.40937	-1.11092	0.68896	-0.00215	1.28241	0.35872	0.02104	0.80582
1.74764	-9.69734	1.82818	-0.40919	-1.10596	0.68617	-0.00213	1.35921	0.34602	0.02114	0.81232
1.78859	-9.81623	1.83836	-0.40905	-1.10128	0.68375	-0.00211	1.42995	0.33505	0.02100	0.82075
1.83083	-9.93369	1.84896	-0.40900	-1.09667	0.68161	-0.00209	1.49241	0.32579	0.02064	0.83119
1.87371	-10.04770	1.85977	-0.40909	-1.09221	0.68001	-0.00207	1.54400	0.31837	0.02007	0.84327
1.91791	-10.16010	1.87094	-0.40938	-1.08784	0.67911	-0.00205	1.58462	0.31260	0.01936	0.85670
1.96309	-10.26935	1.88234	-0.40990	-1.08376	0.67922	-0.00203	1.61502	0.30833	0.01857	0.87070

2.00924	-10.37426	1.89397	-0.41068	-1.08031	0.68073	-0.00202	1.63848	0.30524	0.01778	0.88453
2.05634	-10.47520	1.90579	-0.41170	-1.07747	0.68363	-0.00202	1.65604	0.30315	0.01706	0.89758
2.10482	-10.57320	1.91793	-0.41293	-1.07527	0.68806	-0.00201	1.66962	0.30181	0.01642	0.90949
2.15424	-10.66707	1.93024	-0.41428	-1.07389	0.69411	-0.00201	1.68180	0.30096	0.01587	0.91999
2.20507	-10.75768	1.94283	-0.41571	-1.07337	0.70168	-0.00202	1.69471	0.30038	0.01539	0.92910
2.25683	-10.84496	1.95555	-0.41719	-1.07357	0.71030	-0.00203	1.70885	0.29990	0.01496	0.93682
2.31000	-10.93266	1.96845	-0.41865	-1.07392	0.71916	-0.00204	1.72108	0.29955	0.01460	0.94331
2.36463	-11.02163	1.98150	-0.42007	-1.07427	0.72800	-0.00205	1.73229	0.29913	0.01430	0.94860
2.42014	-11.11060	1.99448	-0.42138	-1.07478	0.73703	-0.00207	1.74607	0.29827	0.01410	0.95265
2.47709	-11.20048	2.00748	-0.42253	-1.07556	0.74633	-0.00208	1.76543	0.29671	0.01401	0.95560
2.53550	-11.29056	2.02044	-0.42347	-1.07680	0.75609	-0.00210	1.79399	0.29419	0.01403	0.95768
2.59471	-11.38006	2.03318	-0.42415	-1.07846	0.76605	-0.00211	1.83318	0.29065	0.01416	0.95914
2.65604	-11.47169	2.04593	-0.42455	-1.08043	0.77635	-0.00213	1.88556	0.28595	0.01440	0.96026
2.71887	-11.56513	2.05850	-0.42461	-1.08249	0.78700	-0.00215	1.95019	0.28026	0.01473	0.96142
2.78242	-11.66052	2.07081	-0.42428	-1.08442	0.79790	-0.00217	2.02549	0.27378	0.01513	0.96273
2.84819	-11.76119	2.08313	-0.42349	-1.08612	0.80920	-0.00219	2.11171	0.26657	0.01562	0.96439
2.91545	-11.86661	2.09530	-0.42220	-1.08738	0.82053	-0.00221	2.20375	0.25899	0.01617	0.96668
2.98329	-11.97716	2.10716	-0.42036	-1.08796	0.83121	-0.00224	2.29698	0.25137	0.01674	0.96954
3.05344	-12.09304	2.11890	-0.41806	-1.08812	0.84140	-0.00227	2.39547	0.24347	0.01732	0.97326
3.12598	-12.21445	2.13054	-0.41521	-1.08806	0.85112	-0.00229	2.50272	0.23518	0.01791	0.97753
3.19898	-12.33566	2.14172	-0.41205	-1.08805	0.85993	-0.00231	2.61710	0.22681	0.01848	0.98214
3.27439	-12.46049	2.15291	-0.40846	-1.08828	0.86807	-0.00233	2.74330	0.21821	0.01908	0.98654
3.35121	-12.58591	2.16393	-0.40453	-1.08887	0.87554	-0.00235	2.87677	0.20976	0.01972	0.99040
3.43053	-12.71560	2.17508	-0.40011	-1.08975	0.88249	-0.00236	3.01724	0.20146	0.02045	0.99346
3.51124	-12.84735	2.18602	-0.39542	-1.09049	0.88862	-0.00237	3.15279	0.19375	0.02122	0.99611
3.59324	-12.98422	2.19682	-0.39033	-1.09070	0.89359	-0.00237	3.27647	0.18684	0.02204	0.99830
3.67782	-13.12497	2.20750	-0.38503	-1.09032	0.89748	-0.00237	3.38740	0.18064	0.02283	1.00109
3.76506	-13.27251	2.21789	-0.37929	-1.08907	0.90004	-0.00237	3.48259	0.17526	0.02360	1.00441
3.85356	-13.41903	2.22804	-0.37357	-1.08745	0.90182	-0.00237	3.56967	0.17035	0.02425	1.00898
3.94477	-13.56661	2.23753	-0.36756	-1.08558	0.90324	-0.00237	3.65360	0.16591	0.02480	1.01408
4.03714	-13.71203	2.24691	-0.36158	-1.08362	0.90434	-0.00237	3.73554	0.16174	0.02521	1.01994
4.13223	-13.85538	2.25571	-0.35555	-1.08165	0.90523	-0.00237	3.81358	0.15807	0.02547	1.02626
4.23012	-13.99931	2.26437	-0.34928	-1.07968	0.90587	-0.00237	3.88829	0.15485	0.02562	1.03249
4.32900	-14.13838	2.27309	-0.34330	-1.07794	0.90633	-0.00236	3.95821	0.15202	0.02563	1.03878
4.43066	-14.27328	2.28094	-0.33720	-1.07668	0.90674	-0.00236	4.02144	0.14997	0.02553	1.04462
4.53515	-14.40784	2.28949	-0.33114	-1.07581	0.90719	-0.00235	4.08030	0.14833	0.02529	1.05052
4.64253	-14.53745	2.29784	-0.32533	-1.07548	0.90773	-0.00235	4.13002	0.14736	0.02492	1.05656
4.75059	-14.65974	2.30535	-0.31952	-1.07592	0.90836	-0.00234	4.16769	0.14738	0.02442	1.06243
4.86145	-14.78481	2.31423	-0.31385	-1.07641	0.90896	-0.00233	4.19412	0.14781	0.02380	1.06863
4.97760	-14.90848	2.32255	-0.30832	-1.07681	0.90938	-0.00232	4.20361	0.14896	0.02309	1.07516
5.09424	-15.02733	2.32996	-0.30284	-1.07723	0.90951	-0.00231	4.19393	0.15099	0.02227	1.08184
5.21376	-15.15349	2.33923	-0.29745	-1.07711	0.90942	-0.00230	4.17162	0.15319	0.02139	1.08879
5.33618	-15.27588	2.34765	-0.29234	-1.07668	0.90919	-0.00229	4.14095	0.15556	0.02053	1.09567
5.46150	-15.39302	2.35456	-0.28713	-1.07629	0.90877	-0.00228	4.10005	0.15844	0.01963	1.10268
5.58971	-15.51926	2.36371	-0.28189	-1.07550	0.90825	-0.00227	4.05151	0.16139	0.01871	1.10997
5.72082	-15.64533	2.37332	-0.27692	-1.07460	0.90788	-0.00225	4.00450	0.16414	0.01785	1.11722
5.85823	-15.75946	2.37993	-0.27188	-1.07432	0.90779	-0.00225	3.96086	0.16705	0.01704	1.12466
5.99520	-15.87724	2.38794	-0.26674	-1.07398	0.90771	-0.00224	3.91419	0.17002	0.01622	1.13225
6.13497	-16.00590	2.39874	-0.26167	-1.07320	0.90763	-0.00222	3.86508	0.17283	0.01544	1.13998
6.28141	-16.12337	2.40704	-0.25685	-1.07281	0.90789	-0.00222	3.82471	0.17538	0.01474	1.14769
6.42674	-16.22624	2.41268	-0.25206	-1.07302	0.90840	-0.00221	3.78985	0.17791	0.01408	1.15531
6.57895	-16.34598	2.42168	-0.24688	-1.07286	0.90884	-0.00220	3.74838	0.18058	0.01340	1.16338
6.73401	-16.47805	2.43370	-0.24176	-1.07219	0.90918	-0.00219	3.70451	0.18309	0.01275	1.17146
6.89180	-16.58688	2.44109	-0.23725	-1.07211	0.90986	-0.00218	3.67330	0.18520	0.01221	1.17926
7.05716	-16.68562	2.44590	-0.23251	-1.07262	0.91082	-0.00217	3.64583	0.18739	0.01166	1.18731
7.22022	-16.79761	2.45418	-0.22758	-1.07272	0.91162	-0.00216	3.61273	0.18963	0.01111	1.19511
7.39098	-16.93144	2.46693	-0.22232	-1.07226	0.91226	-0.00215	3.57323	0.19196	0.01057	1.20287
7.56430	-17.04893	2.47666	-0.21781	-1.07197	0.91303	-0.00214	3.54302	0.19386	0.01012	1.20999
7.73994	-17.13197	2.47922	-0.21378	-1.07268	0.91420	-0.00214	3.52537	0.19549	0.00970	1.21661
7.92393	-17.23321	2.48522	-0.20909	-1.07316	0.91530	-0.00213	3.50040	0.19742	0.00925	1.22308
8.11030	-17.35159	2.49508	-0.20405	-1.07325	0.91626	-0.00212	3.46976	0.19947	0.00879	1.22911
8.29876	-17.49081	2.50971	-0.19885	-1.07274	0.91701	-0.00211	3.43391	0.20155	0.00836	1.23461
8.49618	-17.59597	2.51709	-0.19479	-1.07278	0.91799	-0.00210	3.41232	0.20306	0.00801	1.23966
8.69565	-17.66593	2.51711	-0.19123	-1.07369	0.91925	-0.00209	3.40074	0.20436	0.00767	1.24456
8.90472	-17.76480	2.52283	-0.18673	-1.07420	0.92040	-0.00209	3.37917	0.20605	0.00727	1.24959
9.11577	-17.87569	2.53133	-0.18195	-1.07448	0.92147	-0.00208	3.35415	0.20783	0.00688	1.25453
9.32836	-18.01884	2.54695	-0.17647	-1.07418	0.92236	-0.00207	3.32052	0.20986	0.00649	1.25944
9.54198	-18.14333	2.55925	-0.17212	-1.07383	0.92317	-0.00205	3.29556	0.21137	0.00619	1.26415
9.76563	-18.20074	2.55710	-0.16944	-1.07463	0.92430	-0.00205	3.29019	0.21219	0.00592	1.26934
10.00000	-18.27172	2.55729	-0.16593	-1.07544	0.92547	-0.00205	3.27916	0.21334	0.00559	1.27545

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Low stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 610 - 1220 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.66960	3.36755	-0.04629	-1.68546	1.04100	-0.00105	1.25523	0.44863	-0.01370	0.31143
PGV	1.24387	1.89241	-0.11070	-2.34748	1.36557	-0.00160	5.41447	0.34050	-0.00713	0.39902
PGA	1.98051	1.51624	-0.06976	-2.83865	1.19241	-0.00148	6.38961	0.41152	-0.03452	0.76497
0.01000	2.54937	1.53076	-0.06898	-2.95409	1.20361	-0.00135	7.17034	0.40163	-0.01778	0.73416
0.01024	2.54700	1.53286	-0.06832	-2.95462	1.19845	-0.00134	7.14844	0.40290	-0.01788	0.73477
0.01048	2.54761	1.53492	-0.06766	-2.95571	1.19350	-0.00133	7.13016	0.40409	-0.01798	0.73537
0.01072	2.55081	1.53694	-0.06701	-2.95727	1.18871	-0.00132	7.11496	0.40521	-0.01809	0.73598
0.01097	2.55684	1.53895	-0.06637	-2.95933	1.18406	-0.00131	7.10328	0.40626	-0.01821	0.73661
0.01123	2.56676	1.54094	-0.06572	-2.96212	1.17957	-0.00130	7.09667	0.40722	-0.01834	0.73729
0.01150	2.58170	1.54295	-0.06508	-2.96585	1.17528	-0.00129	7.09680	0.40806	-0.01848	0.73799
0.01177	2.60153	1.54496	-0.06443	-2.97049	1.17118	-0.00127	7.10346	0.40879	-0.01863	0.73869
0.01205	2.62501	1.54698	-0.06380	-2.97582	1.16724	-0.00126	7.11486	0.40944	-0.01878	0.73937
0.01233	2.65236	1.54900	-0.06315	-2.98187	1.16347	-0.00124	7.13132	0.41000	-0.01894	0.74008
0.01262	2.68335	1.55104	-0.06250	-2.98860	1.15984	-0.00123	7.15252	0.41048	-0.01911	0.74082
0.01292	2.71798	1.55309	-0.06184	-2.99601	1.15631	-0.00121	7.17821	0.41089	-0.01929	0.74161
0.01322	2.75715	1.55518	-0.06116	-3.00427	1.15287	-0.00119	7.20948	0.41121	-0.01948	0.74244
0.01353	2.80174	1.55729	-0.06048	-3.01353	1.14950	-0.00117	7.24794	0.41144	-0.01967	0.74329
0.01385	2.85134	1.55942	-0.05979	-3.02370	1.14619	-0.00115	7.29314	0.41156	-0.01986	0.74413
0.01417	2.90308	1.56155	-0.05910	-3.03423	1.14292	-0.00113	7.34076	0.41164	-0.02006	0.74499
0.01451	2.95528	1.56367	-0.05840	-3.04481	1.13971	-0.00111	7.38816	0.41174	-0.02025	0.74590
0.01485	3.00981	1.56579	-0.05769	-3.05581	1.13653	-0.00109	7.43819	0.41179	-0.02046	0.74689
0.01520	3.06775	1.56795	-0.05697	-3.06742	1.13329	-0.00106	7.49191	0.41181	-0.02067	0.74795
0.01556	3.12891	1.57016	-0.05620	-3.07965	1.13002	-0.00104	7.54833	0.41181	-0.02088	0.74910
0.01592	3.19581	1.57247	-0.05538	-3.09301	1.12693	-0.00102	7.61110	0.41173	-0.02111	0.75044
0.01630	3.27042	1.57486	-0.05454	-3.10785	1.12416	-0.00099	7.68421	0.41151	-0.02137	0.75201
0.01668	3.34745	1.57726	-0.05369	-3.12309	1.12149	-0.00097	7.76065	0.41126	-0.02165	0.75376
0.01707	3.42351	1.57964	-0.05284	-3.13807	1.11865	-0.00094	7.83481	0.41105	-0.02193	0.75564
0.01748	3.49629	1.58197	-0.05198	-3.15233	1.11550	-0.00092	7.90305	0.41094	-0.02222	0.75758
0.01789	3.56836	1.58426	-0.05113	-3.16636	1.11224	-0.00089	7.97004	0.41086	-0.02252	0.75958
0.01831	3.64806	1.58658	-0.05029	-3.18178	1.10919	-0.00087	8.04828	0.41063	-0.02280	0.76154
0.01874	3.73872	1.58903	-0.04942	-3.19928	1.10629	-0.00084	8.14157	0.41022	-0.02306	0.76328
0.01918	3.83326	1.59157	-0.04853	-3.21752	1.10318	-0.00081	8.23827	0.40981	-0.02327	0.76472
0.01963	3.92242	1.59416	-0.04758	-3.23477	1.09959	-0.00078	8.32333	0.40959	-0.02346	0.76606
0.02009	4.00940	1.59680	-0.04659	-3.25159	1.09558	-0.00075	8.40148	0.40951	-0.02369	0.76768
0.02057	4.09345	1.59937	-0.04558	-3.26770	1.09111	-0.00072	8.47375	0.40954	-0.02400	0.76980
0.02105	4.17224	1.60177	-0.04459	-3.28256	1.08619	-0.00070	8.53931	0.40966	-0.02435	0.77217
0.02154	4.25417	1.60414	-0.04362	-3.29782	1.08122	-0.00067	8.61008	0.40973	-0.02467	0.77431
0.02205	4.34482	1.60662	-0.04263	-3.31470	1.07641	-0.00064	8.69273	0.40967	-0.02494	0.77613
0.02257	4.44992	1.60928	-0.04163	-3.33427	1.07196	-0.00061	8.79627	0.40937	-0.02523	0.77811
0.02310	4.56403	1.61212	-0.04060	-3.35555	1.06782	-0.00058	8.91118	0.40898	-0.02556	0.78034
0.02364	4.67562	1.61510	-0.03952	-3.37645	1.06367	-0.00055	9.01763	0.40874	-0.02586	0.78238
0.02420	4.77715	1.61809	-0.03838	-3.39555	1.05934	-0.00052	9.10505	0.40875	-0.02612	0.78414
0.02477	4.88001	1.62099	-0.03724	-3.41474	1.05481	-0.00049	9.19470	0.40874	-0.02642	0.78617
0.02535	4.99658	1.62382	-0.03613	-3.43619	1.05010	-0.00046	9.30739	0.40846	-0.02681	0.78888
0.02595	5.11367	1.62656	-0.03506	-3.45747	1.04495	-0.00042	9.42245	0.40818	-0.02728	0.79206
0.02656	5.20691	1.62923	-0.03398	-3.47420	1.03909	-0.00040	9.50041	0.40838	-0.02769	0.79489
0.02719	5.26308	1.63170	-0.03288	-3.48392	1.03233	-0.00038	9.52145	0.40926	-0.02797	0.79693
0.02783	5.28226	1.63388	-0.03176	-3.48663	1.02491	-0.00037	9.48598	0.41080	-0.02821	0.79884
0.02848	5.28079	1.63597	-0.03058	-3.48558	1.01734	-0.00037	9.41568	0.41275	-0.02852	0.80126
0.02915	5.27949	1.63818	-0.02932	-3.48478	1.01002	-0.00037	9.34168	0.41475	-0.02888	0.80406
0.02984	5.28656	1.64044	-0.02809	-3.48557	1.00300	-0.00037	9.28139	0.41658	-0.02920	0.80666
0.03054	5.30780	1.64275	-0.02689	-3.48881	0.99611	-0.00036	9.24554	0.41813	-0.02943	0.80879
0.03126	5.34689	1.64514	-0.02571	-3.49507	0.98951	-0.00035	9.23926	0.41934	-0.02969	0.81125
0.03199	5.40376	1.64758	-0.02459	-3.50428	0.98324	-0.00034	9.26223	0.42023	-0.03003	0.81427
0.03275	5.45242	1.64996	-0.02348	-3.51179	0.97650	-0.00034	9.27197	0.42130	-0.03027	0.81677
0.03352	5.46297	1.65211	-0.02231	-3.51218	0.96889	-0.00034	9.22427	0.42307	-0.03039	0.81845
0.03430	5.44409	1.65396	-0.02114	-3.50682	0.96100	-0.00035	9.13781	0.42531	-0.03046	0.81986
0.03511	5.41592	1.65553	-0.02013	-3.49933	0.95321	-0.00036	9.04563	0.42761	-0.03049	0.82103
0.03594	5.38647	1.65699	-0.01924	-3.49135	0.94496	-0.00038	8.95533	0.42990	-0.03054	0.82240
0.03678	5.35744	1.65854	-0.01835	-3.48344	0.93542	-0.00039	8.86292	0.43231	-0.03076	0.82499
0.03765	5.31487	1.66025	-0.01738	-3.47340	0.92480	-0.00040	8.74490	0.43511	-0.03115	0.82857
0.03854	5.22179	1.66195	-0.01619	-3.45464	0.91424	-0.00042	8.55040	0.43892	-0.03151	0.83196
0.03944	5.07715	1.66330	-0.01483	-3.42675	0.90507	-0.00046	8.28810	0.44358	-0.03173	0.83438
0.04037	4.92126	1.66418	-0.01355	-3.39661	0.89748	-0.00051	8.02257	0.44826	-0.03185	0.83608
0.04132	4.78182	1.66502	-0.01234	-3.36926	0.89020	-0.00055	7.78607	0.45263	-0.03208	0.83841
0.04229	4.65232	1.66601	-0.01109	-3.34355	0.88183	-0.00059	7.56386	0.45701	-0.03238	0.84130
0.04329	4.51295	1.66686	-0.00974	-3.31566	0.87230	-0.00063	7.33213	0.46173	-0.03271	0.84437
0.04431	4.36614	1.66755	-0.00842	-3.28614	0.86271	-0.00067	7.09794	0.46661	-0.03301	0.84734
0.04535	4.22156	1.66801	-0.00721	-3.25667	0.85367	-0.00072	6.87715	0.47136	-0.03336	0.85057

0.04642	4.07508	1.66823	-0.00599	-3.22642	0.84432	-0.00077	6.66193	0.47614	-0.03380	0.85442
0.04751	3.90700	1.66818	-0.00473	-3.19177	0.83289	-0.00081	6.42336	0.48156	-0.03424	0.85830
0.04863	3.71017	1.66767	-0.00355	-3.15136	0.81942	-0.00087	6.15336	0.48780	-0.03474	0.86250
0.04977	3.50971	1.66700	-0.00251	-3.11001	0.80535	-0.00092	5.88381	0.49431	-0.03516	0.86612
0.05094	3.31624	1.66666	-0.00156	-3.07014	0.79168	-0.00097	5.62735	0.50084	-0.03532	0.86797
0.05214	3.11275	1.66668	-0.00062	-3.02901	0.77878	-0.00102	5.36089	0.50786	-0.03531	0.86870
0.05337	2.90453	1.66676	0.00025	-2.98775	0.76765	-0.00108	5.09224	0.51509	-0.03515	0.86839
0.05462	2.71470	1.66661	0.00096	-2.95002	0.75822	-0.00113	4.85382	0.52177	-0.03481	0.86676
0.05591	2.55385	1.66627	0.00156	-2.91711	0.74898	-0.00118	4.65679	0.52767	-0.03431	0.86395
0.05722	2.41248	1.66590	0.00217	-2.88736	0.73978	-0.00122	4.48897	0.53304	-0.03373	0.86061
0.05857	2.27684	1.66551	0.00291	-2.85870	0.73203	-0.00126	4.33609	0.53808	-0.03326	0.85808
0.05995	2.13700	1.66489	0.00372	-2.82920	0.72641	-0.00132	4.18639	0.54305	-0.03299	0.85705
0.06136	1.97459	1.66398	0.00461	-2.79546	0.72230	-0.00138	4.01747	0.54865	-0.03276	0.85638
0.06280	1.80162	1.66275	0.00546	-2.75993	0.71907	-0.00145	3.84050	0.55459	-0.03246	0.85538
0.06428	1.65055	1.66163	0.00612	-2.72868	0.71607	-0.00150	3.68884	0.55993	-0.03217	0.85452
0.06579	1.52223	1.66073	0.00666	-2.70165	0.71337	-0.00155	3.56371	0.56460	-0.03201	0.85467
0.06734	1.37406	1.65931	0.00732	-2.67039	0.71078	-0.00161	3.42323	0.56995	-0.03207	0.85652
0.06893	1.18812	1.65752	0.00829	-2.63194	0.70820	-0.00168	3.24764	0.57682	-0.03218	0.85891
0.07055	0.98491	1.65577	0.00944	-2.59051	0.70516	-0.00176	3.05736	0.58469	-0.03211	0.85989
0.07221	0.78217	1.65348	0.01043	-2.54916	0.70132	-0.00182	2.87283	0.59267	-0.03185	0.85940
0.07391	0.60039	1.65035	0.01098	-2.51130	0.69728	-0.00188	2.71421	0.59976	-0.03164	0.85881
0.07565	0.45181	1.64687	0.01119	-2.47879	0.69356	-0.00193	2.59155	0.60552	-0.03168	0.85968
0.07743	0.30931	1.64359	0.01149	-2.44665	0.68995	-0.00198	2.48142	0.61109	-0.03212	0.86317
0.07925	0.14474	1.64047	0.01219	-2.40994	0.68764	-0.00206	2.36187	0.61750	-0.03281	0.86841
0.08111	-0.01698	1.63702	0.01286	-2.37317	0.68740	-0.00214	2.25265	0.62354	-0.03350	0.87346
0.08302	-0.14842	1.63263	0.01284	-2.34111	0.68581	-0.00220	2.16894	0.62825	-0.03405	0.87749
0.08498	-0.28471	1.62745	0.01237	-2.30777	0.67851	-0.00225	2.07751	0.63365	-0.03428	0.87953
0.08697	-0.45619	1.62211	0.01203	-2.26829	0.66790	-0.00229	1.95909	0.64105	-0.03417	0.87959
0.08902	-0.64492	1.61662	0.01197	-2.22558	0.65718	-0.00234	1.83254	0.64946	-0.03391	0.87906
0.09112	-0.82717	1.61065	0.01196	-2.18372	0.64673	-0.00239	1.71203	0.65799	-0.03359	0.87841
0.09326	-0.98565	1.60460	0.01178	-2.14665	0.63880	-0.00243	1.60756	0.66573	-0.03303	0.87627
0.09545	-1.11320	1.59910	0.01129	-2.11678	0.63666	-0.00246	1.52538	0.67180	-0.03216	0.87185
0.09770	-1.20167	1.59473	0.01036	-2.09644	0.64162	-0.00250	1.46886	0.67560	-0.03100	0.86560
0.10000	-1.24753	1.59172	0.00901	-2.08571	0.65188	-0.00254	1.43846	0.67710	-0.02978	0.85946
0.10235	-1.26146	1.58921	0.00728	-2.08106	0.66496	-0.00257	1.42875	0.67679	-0.02874	0.85507
0.10476	-1.26245	1.58633	0.00527	-2.07804	0.67910	-0.00260	1.42914	0.67554	-0.02780	0.85149
0.10723	-1.26824	1.58227	0.00302	-2.07281	0.69068	-0.00263	1.42659	0.67452	-0.02696	0.84851
0.10975	-1.29573	1.57662	0.00072	-2.06207	0.69692	-0.00266	1.40819	0.67492	-0.02629	0.84664
0.11233	-1.36670	1.57014	-0.00117	-2.04226	0.69792	-0.00268	1.36153	0.67808	-0.02591	0.84666
0.11498	-1.48457	1.56371	-0.00247	-2.01319	0.69432	-0.00271	1.28961	0.68412	-0.02571	0.84788
0.11768	-1.61590	1.55751	-0.00373	-1.98143	0.68672	-0.00274	1.21568	0.69097	-0.02561	0.84971
0.12045	-1.73181	1.55103	-0.00539	-1.95246	0.67721	-0.00275	1.15343	0.69693	-0.02556	0.85192
0.12328	-1.83076	1.54453	-0.00728	-1.92672	0.66868	-0.00276	1.10100	0.70205	-0.02543	0.85346
0.12619	-1.91874	1.53834	-0.00912	-1.90314	0.66163	-0.00277	1.05524	0.70664	-0.02504	0.85300
0.12916	-1.99589	1.53233	-0.01089	-1.88194	0.65640	-0.00278	1.01605	0.71056	-0.02425	0.84969
0.13219	-2.05840	1.52616	-0.01279	-1.86367	0.65426	-0.00279	0.98500	0.71340	-0.02324	0.84451
0.13531	-2.10762	1.51968	-0.01477	-1.84732	0.65401	-0.00280	0.96216	0.71520	-0.02216	0.83833
0.13849	-2.13610	1.51414	-0.01684	-1.83514	0.65618	-0.00282	0.95320	0.71536	-0.02100	0.83070
0.14175	-2.16064	1.50995	-0.01886	-1.82485	0.65956	-0.00284	0.94758	0.71525	-0.01987	0.82269
0.14508	-2.20012	1.50614	-0.02075	-1.81227	0.66350	-0.00287	0.93385	0.71625	-0.01901	0.81664
0.14850	-2.24286	1.50130	-0.02289	-1.79825	0.66892	-0.00290	0.91818	0.71723	-0.01849	0.81297
0.15199	-2.29305	1.49561	-0.02514	-1.78223	0.67236	-0.00293	0.89767	0.71881	-0.01825	0.81117
0.15557	-2.34561	1.49015	-0.02764	-1.76652	0.67509	-0.00296	0.87488	0.72068	-0.01817	0.81052
0.15923	-2.39820	1.48405	-0.03063	-1.75100	0.67911	-0.00298	0.85093	0.72243	-0.01808	0.81002
0.16298	-2.45746	1.47668	-0.03388	-1.73323	0.68261	-0.00300	0.82428	0.72440	-0.01800	0.80960
0.16681	-2.51650	1.46966	-0.03711	-1.71563	0.68514	-0.00302	0.80036	0.72617	-0.01776	0.80821
0.17074	-2.55955	1.46399	-0.04055	-1.70208	0.68806	-0.00304	0.78615	0.72668	-0.01733	0.80569
0.17475	-2.58399	1.45914	-0.04460	-1.69262	0.69001	-0.00304	0.77980	0.72611	-0.01694	0.80391
0.17887	-2.59381	1.45420	-0.04929	-1.68609	0.69128	-0.00303	0.77751	0.72478	-0.01663	0.80321
0.18307	-2.60524	1.44862	-0.05426	-1.67919	0.69068	-0.00301	0.77189	0.72382	-0.01597	0.80062
0.18738	-2.62889	1.44272	-0.05908	-1.67017	0.68883	-0.00299	0.76121	0.72354	-0.01484	0.79510
0.19179	-2.66574	1.43647	-0.06350	-1.65851	0.68777	-0.00298	0.74735	0.72366	-0.01367	0.78917
0.19631	-2.72459	1.42947	-0.06771	-1.64186	0.68496	-0.00297	0.72366	0.72545	-0.01268	0.78434
0.20092	-2.79923	1.42107	-0.07206	-1.62082	0.67741	-0.00295	0.69065	0.72892	-0.01192	0.78097
0.20565	-2.86765	1.41219	-0.07639	-1.60046	0.66935	-0.00293	0.66059	0.73195	-0.01128	0.77832
0.21049	-2.90917	1.40536	-0.08056	-1.58716	0.66956	-0.00293	0.64648	0.73210	-0.01064	0.77607
0.21544	-2.92078	1.40115	-0.08471	-1.58227	0.68007	-0.00294	0.65015	0.72888	-0.01020	0.77508
0.22051	-2.92530	1.39812	-0.08887	-1.57998	0.69370	-0.00295	0.65925	0.72477	-0.01010	0.77600
0.22570	-2.94485	1.39508	-0.09280	-1.57449	0.70213	-0.00296	0.66163	0.72226	-0.01013	0.77743
0.23101	-2.97726	1.39039	-0.09665	-1.56439	0.70289	-0.00295	0.65648	0.72119	-0.01013	0.77869
0.23645	-3.00805	1.38473	-0.10064	-1.55301	0.69998	-0.00294	0.65154	0.72002	-0.01001	0.77963
0.24201	-3.03264	1.38010	-0.10451	-1.54334	0.69689	-0.00293	0.65034	0.71840	-0.00949	0.77828
0.24771	-3.04136	1.37704	-0.10842	-1.53869	0.69523	-0.00291	0.65633	0.71558	-0.00864	0.77467
0.25354	-3.04159	1.37444	-0.11262	-1.53713	0.69406	-0.00288	0.66455	0.71224	-0.00810	0.77305
0.25950	-3.05798	1.37147	-0.11678	-1.53250	0.69240	-0.00284	0.66369	0.71050	-0.00809	0.77517
0.26561	-3.09888	1.36823	-0.12067	-1.52236	0.69115	-0.00283	0.65181	0.71094	-0.00804	0.77701
0.27186	-3.14225	1.36500	-0.12463	-1.51090	0.69147	-0.00283	0.64087	0.71133	-0.00761	0.77617
0.27826	-3.17771	1.36181	-0.12886	-1.50050	0.69275	-0.00283	0.63473	0.71080	-0.00692	0.77325
0.28480	-3.22978	1.35855	-0.13304	-1.48698	0.69305	-0.00284	0.61853	0.71221	-0.00614	0.76937
0.29150	-3.30392	1.35512	-0.13718	-1.46963	0.69060	-0.00284	0.58892	0.71635	-0.00545	0.76598
0.29836	-3.38108	1.35172	-0.14145	-1.45231	0.68532	-0.00284	0.55809	0.72096	-0.00488	0.76348

0.30539	-3.44430	1.34870	-0.14570	-1.43879	0.68080	-0.00282	0.53623	0.72361	-0.00425	0.76096
0.31257	-3.49163	1.34615	-0.14980	-1.42952	0.68116	-0.00281	0.52439	0.72375	-0.00333	0.75671
0.31993	-3.53994	1.34481	-0.15362	-1.42126	0.68685	-0.00281	0.51511	0.72335	-0.00197	0.74972
0.32745	-3.59250	1.34532	-0.15753	-1.41359	0.69717	-0.00283	0.50751	0.72278	-0.00041	0.74140
0.33517	-3.63001	1.34710	-0.16194	-1.41003	0.71040	-0.00286	0.50953	0.71988	0.00098	0.73412
0.34304	-3.64405	1.34855	-0.16681	-1.41074	0.72091	-0.00286	0.52394	0.71393	0.00195	0.72887
0.35112	-3.64528	1.34874	-0.17197	-1.41215	0.72596	-0.00285	0.54622	0.70636	0.00259	0.72482
0.35938	-3.64653	1.34823	-0.17708	-1.41254	0.72734	-0.00282	0.56944	0.69890	0.00317	0.72112
0.36784	-3.65988	1.34807	-0.18183	-1.41183	0.72592	-0.00279	0.58591	0.69294	0.00384	0.71721
0.37649	-3.69651	1.34842	-0.18629	-1.40813	0.72147	-0.00275	0.58902	0.68966	0.00459	0.71322
0.38536	-3.75173	1.34900	-0.19083	-1.40087	0.71372	-0.00271	0.58095	0.68886	0.00519	0.71043
0.39442	-3.81517	1.34983	-0.19567	-1.39149	0.70256	-0.00266	0.56799	0.68941	0.00549	0.70981
0.40370	-3.88333	1.35174	-0.20074	-1.38195	0.69096	-0.00263	0.55469	0.69031	0.00547	0.71110
0.41321	-3.95220	1.35572	-0.20582	-1.37480	0.68500	-0.00260	0.54436	0.69071	0.00526	0.71357
0.42292	-4.01604	1.36129	-0.21072	-1.37118	0.68694	-0.00260	0.53793	0.69021	0.00495	0.71688
0.43288	-4.07117	1.36680	-0.21558	-1.36990	0.69300	-0.00259	0.53621	0.68833	0.00480	0.71962
0.44307	-4.11566	1.37130	-0.22050	-1.36971	0.69893	-0.00259	0.54138	0.68460	0.00496	0.72088
0.45349	-4.16492	1.37459	-0.22528	-1.36678	0.69982	-0.00257	0.54664	0.68084	0.00540	0.72044
0.46417	-4.24037	1.37664	-0.22967	-1.35641	0.69295	-0.00256	0.54056	0.67981	0.00603	0.71839
0.47508	-4.33966	1.37834	-0.23383	-1.34006	0.68374	-0.00256	0.52381	0.68147	0.00656	0.71679
0.48626	-4.43312	1.38146	-0.23812	-1.32631	0.68115	-0.00257	0.51118	0.68240	0.00678	0.71758
0.49771	-4.49442	1.38687	-0.24271	-1.32230	0.68952	-0.00260	0.51477	0.67941	0.00679	0.72037
0.50942	-4.53229	1.39345	-0.24734	-1.32539	0.70528	-0.00263	0.52939	0.67350	0.00683	0.72352
0.52140	-4.57426	1.39952	-0.25165	-1.32770	0.72027	-0.00266	0.54079	0.66805	0.00706	0.72552
0.53367	-4.62036	1.40450	-0.25591	-1.32762	0.72969	-0.00267	0.54986	0.66317	0.00753	0.72583
0.54624	-4.66597	1.40861	-0.26042	-1.32560	0.73376	-0.00266	0.56036	0.65837	0.00816	0.72501
0.55910	-4.72142	1.41223	-0.26503	-1.32021	0.73654	-0.00267	0.56683	0.65475	0.00890	0.72338
0.57225	-4.79414	1.41597	-0.26946	-1.31155	0.74147	-0.00269	0.56503	0.65284	0.00974	0.72101
0.58569	-4.87163	1.42002	-0.27378	-1.30301	0.74811	-0.00271	0.56215	0.65082	0.01048	0.71929
0.59948	-4.94076	1.42321	-0.27834	-1.29596	0.75317	-0.00272	0.56512	0.64694	0.01074	0.72053
0.61357	-5.01073	1.42476	-0.28321	-1.28716	0.75242	-0.00272	0.56596	0.64307	0.01051	0.72517
0.62802	-5.09563	1.42599	-0.28820	-1.27486	0.74370	-0.00269	0.55459	0.64205	0.01018	0.73075
0.64280	-5.19397	1.42881	-0.29303	-1.26125	0.72805	-0.00265	0.53207	0.64450	0.01014	0.73463
0.65794	-5.29117	1.43383	-0.29773	-1.25007	0.71001	-0.00259	0.50924	0.64816	0.01048	0.73599
0.67340	-5.37176	1.44049	-0.30239	-1.24422	0.69648	-0.00253	0.49787	0.64954	0.01114	0.73485
0.68927	-5.43632	1.44793	-0.30697	-1.24294	0.69134	-0.00249	0.50005	0.64732	0.01188	0.73286
0.70547	-5.50083	1.45550	-0.31125	-1.24235	0.69239	-0.00247	0.50690	0.64349	0.01242	0.73200
0.72207	-5.58074	1.46306	-0.31517	-1.23894	0.69416	-0.00246	0.50792	0.64079	0.01265	0.73330
0.73910	-5.67280	1.47047	-0.31909	-1.23294	0.69345	-0.00245	0.50200	0.63971	0.01254	0.73707
0.75649	-5.76552	1.47744	-0.32334	-1.22614	0.69121	-0.00243	0.49425	0.63906	0.01228	0.74189
0.77429	-5.85431	1.48370	-0.32797	-1.21902	0.68996	-0.00243	0.48820	0.63787	0.01213	0.74528
0.79246	-5.94581	1.48919	-0.33276	-1.21016	0.69016	-0.00244	0.48121	0.63671	0.01239	0.74442
0.81116	-6.04369	1.49444	-0.33755	-1.19969	0.69170	-0.00247	0.47338	0.63552	0.01329	0.73793
0.83022	-6.13681	1.50025	-0.34216	-1.19094	0.69518	-0.00250	0.47090	0.63293	0.01464	0.72757
0.84976	-6.21795	1.50771	-0.34646	-1.18677	0.69962	-0.00251	0.47739	0.62835	0.01616	0.71580
0.86972	-6.28880	1.51737	-0.35028	-1.18772	0.70257	-0.00251	0.49150	0.62236	0.01766	0.70404
0.89023	-6.35375	1.52871	-0.35370	-1.19260	0.70286	-0.00247	0.51096	0.61529	0.01890	0.69404
0.91116	-6.41538	1.54032	-0.35687	-1.19922	0.70154	-0.00242	0.53339	0.60739	0.01947	0.68883
0.93257	-6.47348	1.55150	-0.36013	-1.20651	0.70135	-0.00237	0.55951	0.59842	0.01921	0.68996
0.95456	-6.53287	1.56229	-0.36370	-1.21329	0.70428	-0.00234	0.58815	0.58873	0.01841	0.69593
0.97704	-6.60305	1.57275	-0.36752	-1.21749	0.71042	-0.00232	0.61483	0.57930	0.01757	0.70334
1.00000	-6.69303	1.58251	-0.37143	-1.21665	0.71780	-0.00234	0.63363	0.57112	0.01698	0.71007
1.02354	-6.81153	1.59117	-0.37516	-1.20839	0.72289	-0.00237	0.63620	0.56561	0.01652	0.71692
1.04767	-6.96031	1.59888	-0.37859	-1.19251	0.72231	-0.00241	0.61811	0.56373	0.01595	0.72537
1.07227	-7.13065	1.60610	-0.38182	-1.17159	0.71425	-0.00243	0.58396	0.56499	0.01528	0.73505
1.09745	-7.30788	1.61331	-0.38497	-1.14953	0.69892	-0.00243	0.54571	0.56741	0.01468	0.74463
1.12334	-7.47888	1.62088	-0.38802	-1.12954	0.67956	-0.00241	0.51360	0.56898	0.01416	0.75369
1.14982	-7.63322	1.62926	-0.39082	-1.11417	0.66198	-0.00237	0.49396	0.56829	0.01372	0.76226
1.17675	-7.76646	1.63864	-0.39332	-1.10447	0.65047	-0.00234	0.48847	0.56482	0.01340	0.76968
1.20453	-7.87876	1.64890	-0.39572	-1.10039	0.64660	-0.00232	0.49832	0.55801	0.01332	0.77497
1.23289	-7.97304	1.65929	-0.39818	-1.10025	0.64989	-0.00231	0.52177	0.54823	0.01355	0.77743
1.26183	-8.05153	1.66950	-0.40079	-1.10301	0.66001	-0.00232	0.55787	0.53609	0.01401	0.77795
1.29149	-8.11889	1.67970	-0.40360	-1.10781	0.67672	-0.00235	0.60322	0.52288	0.01451	0.77815
1.32188	-8.18588	1.69001	-0.40637	-1.11251	0.69811	-0.00240	0.64904	0.51053	0.01493	0.77914
1.35300	-8.26583	1.70019	-0.40891	-1.11410	0.72013	-0.00246	0.68391	0.50062	0.01519	0.78146
1.38485	-8.36529	1.71001	-0.41116	-1.11102	0.73895	-0.00253	0.70307	0.49322	0.01540	0.78431
1.41743	-8.47990	1.71945	-0.41314	-1.10437	0.75309	-0.00260	0.71169	0.48709	0.01579	0.78636
1.45075	-8.60591	1.72866	-0.41489	-1.09526	0.76159	-0.00266	0.71237	0.48182	0.01640	0.78736
1.48500	-8.74320	1.73785	-0.41645	-1.08397	0.76290	-0.00269	0.70413	0.47769	0.01710	0.78842
1.51999	-8.88807	1.74716	-0.41788	-1.07133	0.75661	-0.00270	0.68918	0.47463	0.01777	0.79039
1.55569	-9.03703	1.75679	-0.41926	-1.05839	0.74417	-0.00268	0.67188	0.47199	0.01843	0.79290
1.59236	-9.18481	1.76686	-0.42068	-1.04674	0.72856	-0.00264	0.65991	0.46835	0.01915	0.79530
1.62973	-9.32440	1.77715	-0.42209	-1.03778	0.71295	-0.00259	0.66029	0.46232	0.01983	0.79789
1.66806	-9.45413	1.78753	-0.42335	-1.03175	0.69869	-0.00254	0.67589	0.45340	0.02029	0.80201
1.70736	-9.57469	1.79804	-0.42438	-1.02840	0.68645	-0.00247	0.70543	0.44218	0.02044	0.80845
1.74764	-9.69121	1.80887	-0.42513	-1.02677	0.67602	-0.00241	0.74311	0.42998	0.02033	0.81697
1.78859	-9.80652	1.82002	-0.42552	-1.02618	0.66697	-0.00235	0.78549	0.41754	0.02001	0.82700
1.83083	-9.92064	1.83168	-0.42552	-1.02706	0.65964	-0.00228	0.83772	0.40419	0.01962	0.83771
1.87371	-10.02670	1.84368	-0.42513	-1.03057	0.65624	-0.00223	0.90980	0.38901	0.01926	0.84794
1.91791	-10.12581	1.85616	-0.42432	-1.03683	0.65808	-0.00219	1.00911	0.37162	0.01903	0.85711
1.96309	-10.22126	1.86901	-0.42308	-1.04490	0.66504	-0.00217	1.13260	0.35315	0.01902	0.86444

2.00924	-10.31666	1.88227	-0.42141	-1.05402	0.67637	-0.00216	1.27499	0.33472	0.01926	0.86964
2.05634	-10.41417	1.89590	-0.41937	-1.06356	0.69049	-0.00217	1.43054	0.31714	0.01973	0.87300
2.10482	-10.51529	1.90981	-0.41698	-1.07308	0.70576	-0.00218	1.59655	0.30059	0.02035	0.87513
2.15424	-10.61617	1.92358	-0.41434	-1.08262	0.72136	-0.00219	1.77494	0.28492	0.02101	0.87665
2.20507	-10.71725	1.93709	-0.41150	-1.09192	0.73723	-0.00220	1.96736	0.26986	0.02162	0.87834
2.25683	-10.82122	1.95007	-0.40851	-1.09981	0.75270	-0.00221	2.16342	0.25582	0.02208	0.88074
2.31000	-10.93354	1.96264	-0.40536	-1.10526	0.76717	-0.00223	2.35606	0.24271	0.02245	0.88346
2.36463	-11.05777	1.97478	-0.40201	-1.10748	0.77979	-0.00225	2.54067	0.23029	0.02284	0.88549
2.42014	-11.19436	1.98644	-0.39849	-1.10615	0.78973	-0.00228	2.71107	0.21852	0.02330	0.88642
2.47709	-11.34321	1.99800	-0.39478	-1.10182	0.79675	-0.00231	2.86409	0.20752	0.02378	0.88666
2.53550	-11.49964	2.00984	-0.39095	-1.09594	0.80103	-0.00233	2.99933	0.19754	0.02429	0.88639
2.59471	-11.65552	2.02204	-0.38715	-1.09015	0.80329	-0.00234	3.12083	0.18882	0.02478	0.88611
2.65604	-11.80904	2.03488	-0.38338	-1.08542	0.80476	-0.00235	3.23708	0.18115	0.02519	0.88672
2.71887	-11.95541	2.04817	-0.37980	-1.08232	0.80688	-0.00235	3.35051	0.17451	0.02547	0.88874
2.78242	-12.09370	2.06166	-0.37652	-1.08054	0.81030	-0.00234	3.45563	0.16898	0.02562	0.89231
2.84819	-12.22923	2.07563	-0.37347	-1.07941	0.81496	-0.00234	3.54663	0.16456	0.02566	0.89772
2.91545	-12.36155	2.08988	-0.37076	-1.07850	0.82037	-0.00234	3.61794	0.16128	0.02560	0.90495
2.98329	-12.48942	2.10416	-0.36839	-1.07767	0.82607	-0.00233	3.66886	0.15908	0.02548	0.91357
3.05344	-12.61584	2.11879	-0.36635	-1.07684	0.83199	-0.00233	3.70377	0.15766	0.02533	0.92329
3.12598	-12.74089	2.13373	-0.36458	-1.07606	0.83793	-0.00232	3.72484	0.15693	0.02516	0.93365
3.19898	-12.86051	2.14849	-0.36316	-1.07539	0.84357	-0.00231	3.73558	0.15670	0.02499	0.94397
3.27439	-12.97782	2.16345	-0.36201	-1.07494	0.84905	-0.00231	3.73937	0.15685	0.02480	0.95412
3.35121	-13.09137	2.17829	-0.36111	-1.07459	0.85412	-0.00230	3.73752	0.15724	0.02459	0.96378
3.43053	-13.20380	2.19323	-0.36039	-1.07426	0.85874	-0.00229	3.72966	0.15785	0.02435	0.97319
3.51124	-13.31392	2.20795	-0.35984	-1.07375	0.86270	-0.00227	3.71700	0.15850	0.02405	0.98244
3.59324	-13.42324	2.22245	-0.35936	-1.07299	0.86593	-0.00226	3.70034	0.15914	0.02371	0.99160
3.67782	-13.53254	2.23679	-0.35901	-1.07181	0.86832	-0.00225	3.68353	0.15945	0.02329	1.00131
3.76506	-13.64563	2.25103	-0.35850	-1.07007	0.86952	-0.00223	3.66656	0.15947	0.02282	1.01142
3.85356	-13.75541	2.26479	-0.35817	-1.06812	0.86978	-0.00221	3.65911	0.15873	0.02227	1.02223
3.94477	-13.87014	2.27834	-0.35742	-1.06579	0.86882	-0.00219	3.65998	0.15736	0.02169	1.03300
4.03714	-13.98112	2.29145	-0.35678	-1.06351	0.86727	-0.00217	3.67598	0.15506	0.02108	1.04388
4.13223	-14.09334	2.30423	-0.35571	-1.06161	0.86569	-0.00214	3.70957	0.15201	0.02044	1.05439
4.23012	-14.20635	2.31700	-0.35425	-1.06031	0.86439	-0.00212	3.76634	0.14804	0.01984	1.06404
4.32900	-14.31241	2.32915	-0.35277	-1.05976	0.86388	-0.00210	3.84422	0.14337	0.01929	1.07290
4.43066	-14.42729	2.34130	-0.35040	-1.05919	0.86367	-0.00208	3.92036	0.13915	0.01880	1.08028
4.53515	-14.53978	2.35342	-0.34801	-1.05899	0.86392	-0.00206	4.00720	0.13464	0.01844	1.08672
4.64253	-14.65621	2.36508	-0.34530	-1.05824	0.86440	-0.00205	4.07676	0.13098	0.01814	1.09250
4.75059	-14.78498	2.37664	-0.34179	-1.05628	0.86457	-0.00204	4.10889	0.12896	0.01796	1.09688
4.86145	-14.90969	2.38808	-0.33853	-1.05438	0.86507	-0.00204	4.14337	0.12681	0.01795	1.10067
4.97760	-15.04027	2.39904	-0.33474	-1.05226	0.86596	-0.00204	4.16560	0.12541	0.01799	1.10413
5.09424	-15.17739	2.40972	-0.33017	-1.04999	0.86746	-0.00204	4.17134	0.12509	0.01815	1.10655
5.21376	-15.30634	2.42041	-0.32585	-1.04852	0.87000	-0.00205	4.19838	0.12402	0.01847	1.10873
5.33618	-15.43423	2.43001	-0.32124	-1.04703	0.87318	-0.00205	4.22682	0.12313	0.01876	1.11108
5.46150	-15.56988	2.43893	-0.31563	-1.04532	0.87722	-0.00207	4.25008	0.12288	0.01904	1.11307
5.58971	-15.69968	2.44820	-0.31017	-1.04422	0.88200	-0.00208	4.29734	0.12175	0.01939	1.11528
5.72082	-15.82326	2.45688	-0.30500	-1.04333	0.88667	-0.00210	4.34969	0.12046	0.01969	1.11822
5.85823	-15.95777	2.46415	-0.29879	-1.04166	0.89095	-0.00211	4.37077	0.12067	0.01983	1.12147
5.99520	-16.09032	2.47177	-0.29247	-1.04014	0.89531	-0.00213	4.39502	0.12082	0.01992	1.12506
6.13497	-16.21829	2.48030	-0.28666	-1.03881	0.89919	-0.00214	4.42950	0.12037	0.02000	1.12944
6.28141	-16.34785	2.48738	-0.28076	-1.03704	0.90135	-0.00215	4.43087	0.12121	0.01995	1.13427
6.42674	-16.47924	2.49307	-0.27428	-1.03484	0.90189	-0.00216	4.39581	0.12360	0.01975	1.13904
6.57895	-16.61613	2.50050	-0.26768	-1.03266	0.90194	-0.00216	4.36341	0.12576	0.01948	1.14466
6.73401	-16.75123	2.50944	-0.26164	-1.03063	0.90162	-0.00216	4.33729	0.12740	0.01917	1.15106
6.89180	-16.87707	2.51557	-0.25586	-1.02869	0.90011	-0.00216	4.28401	0.13018	0.01873	1.15766
7.05716	-17.00622	2.52022	-0.24937	-1.02665	0.89705	-0.00215	4.19630	0.13453	0.01810	1.16483
7.22022	-17.13528	2.52686	-0.24311	-1.02487	0.89420	-0.00214	4.11387	0.13856	0.01738	1.17243
7.39098	-17.27172	2.53637	-0.23703	-1.02325	0.89194	-0.00212	4.04073	0.14207	0.01662	1.18055
7.56430	-17.39326	2.54382	-0.23168	-1.02231	0.89074	-0.00211	3.98023	0.14524	0.01592	1.18816
7.73994	-17.49458	2.54636	-0.22625	-1.02253	0.89027	-0.00210	3.91329	0.14937	0.01513	1.19539
7.92393	-17.60499	2.55116	-0.22039	-1.02306	0.89034	-0.00210	3.84638	0.15358	0.01424	1.20290
8.11030	-17.72217	2.55862	-0.21456	-1.02360	0.89090	-0.00209	3.78785	0.15731	0.01336	1.21014
8.29876	-17.84961	2.56962	-0.20900	-1.02377	0.89171	-0.00207	3.73837	0.16030	0.01256	1.21689
8.49618	-17.95402	2.57537	-0.20425	-1.02434	0.89265	-0.00207	3.69840	0.16307	0.01190	1.22288
8.69565	-18.03350	2.57544	-0.19961	-1.02579	0.89396	-0.00206	3.66049	0.16624	0.01123	1.22864
8.90472	-18.13146	2.57964	-0.19439	-1.02708	0.89556	-0.00206	3.62128	0.16934	0.01051	1.23476
9.11577	-18.23615	2.58594	-0.18914	-1.02820	0.89725	-0.00205	3.58471	0.17219	0.00981	1.24078
9.32836	-18.36389	2.59795	-0.18354	-1.02874	0.89887	-0.00204	3.54662	0.17477	0.00915	1.24678
9.54198	-18.47746	2.60764	-0.17900	-1.02907	0.90024	-0.00203	3.51763	0.17676	0.00865	1.25231
9.76563	-18.53984	2.60569	-0.17563	-1.03055	0.90185	-0.00203	3.50122	0.17869	0.00821	1.25806
10.00000	-18.61133	2.60531	-0.17160	-1.03216	0.90370	-0.00203	3.48192	0.18081	0.00770	1.26484

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Low stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 6 - 15 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.94616	3.36670	-0.04219	-1.62805	0.99732	-0.00105	0.96310	0.47869	-0.01269	0.30809
PGV	9.46747	2.02360	0.07137	-4.17146	1.93324	-0.00042	18.30651	0.25595	-0.06831	0.81515
PGA	-0.64310	1.32198	-0.05037	-2.05200	0.90432	-0.00355	2.50991	0.48956	-0.03475	0.82368
0.01000	0.19800	1.35086	-0.04559	-2.23491	0.89521	-0.00324	3.12938	0.47277	-0.01137	0.78874
0.01024	0.23802	1.35259	-0.04509	-2.24344	0.89220	-0.00322	3.14997	0.47276	-0.01137	0.78990
0.01048	0.27797	1.35432	-0.04459	-2.25189	0.88895	-0.00320	3.16941	0.47280	-0.01135	0.79084
0.01072	0.32337	1.35616	-0.04410	-2.26149	0.88608	-0.00318	3.19370	0.47268	-0.01131	0.79166
0.01097	0.37793	1.35820	-0.04359	-2.27306	0.88403	-0.00315	3.22687	0.47226	-0.01129	0.79259
0.01123	0.43918	1.36036	-0.04303	-2.28602	0.88244	-0.00313	3.26639	0.47163	-0.01131	0.79383
0.01150	0.50128	1.36245	-0.04248	-2.29897	0.88042	-0.00310	3.30641	0.47101	-0.01140	0.79545
0.01177	0.55664	1.36429	-0.04201	-2.31023	0.87717	-0.00308	3.33908	0.47065	-0.01150	0.79726
0.01205	0.60046	1.36582	-0.04159	-2.31885	0.87246	-0.00305	3.35896	0.47072	-0.01159	0.79902
0.01233	0.63738	1.36721	-0.04116	-2.32592	0.86693	-0.00303	3.37073	0.47107	-0.01168	0.80073
0.01262	0.67690	1.36871	-0.04064	-2.33361	0.86170	-0.00301	3.38407	0.47138	-0.01176	0.80237
0.01292	0.72221	1.37040	-0.04008	-2.34274	0.85737	-0.00299	3.40226	0.47152	-0.01180	0.80378
0.01322	0.77178	1.37216	-0.03957	-2.35288	0.85391	-0.00296	3.42485	0.47146	-0.01181	0.80482
0.01353	0.82456	1.37388	-0.03916	-2.36361	0.85107	-0.00294	3.45225	0.47119	-0.01173	0.80528
0.01385	0.87435	1.37546	-0.03882	-2.37357	0.84807	-0.00292	3.47805	0.47096	-0.01152	0.80485
0.01417	0.91304	1.37685	-0.03844	-2.38109	0.84387	-0.00290	3.49257	0.47110	-0.01119	0.80359
0.01451	0.93695	1.37808	-0.03796	-2.38552	0.83814	-0.00288	3.49079	0.47179	-0.01079	0.80191
0.01485	0.94781	1.37919	-0.03737	-2.38726	0.83114	-0.00287	3.47428	0.47300	-0.01041	0.80042
0.01520	0.95261	1.38019	-0.03674	-2.38760	0.82327	-0.00285	3.45140	0.47445	-0.01014	0.79967
0.01556	0.95739	1.38109	-0.03614	-2.38771	0.81503	-0.00284	3.42920	0.47589	-0.01003	0.79998
0.01592	0.96912	1.38196	-0.03559	-2.38907	0.80730	-0.00282	3.41487	0.47707	-0.01007	0.80130
0.01630	1.00059	1.38307	-0.03508	-2.39437	0.80108	-0.00281	3.42159	0.47754	-0.01021	0.80333
0.01668	1.05356	1.38453	-0.03464	-2.40408	0.79629	-0.00278	3.45023	0.47731	-0.01034	0.80542
0.01707	1.10868	1.38615	-0.03422	-2.41426	0.79141	-0.00276	3.47912	0.47712	-0.01038	0.80697
0.01748	1.14493	1.38754	-0.03376	-2.42051	0.78475	-0.00274	3.48616	0.47767	-0.01029	0.80779
0.01789	1.15616	1.38848	-0.03329	-2.42137	0.77554	-0.00273	3.46619	0.47912	-0.01008	0.80802
0.01831	1.14731	1.38894	-0.03289	-2.41784	0.76440	-0.00272	3.42566	0.48124	-0.00980	0.80787
0.01874	1.12086	1.38900	-0.03252	-2.41065	0.75291	-0.00271	3.36768	0.48387	-0.00941	0.80715
0.01918	1.08201	1.38880	-0.03208	-2.40113	0.74281	-0.00271	3.29823	0.48680	-0.00890	0.80561
0.01963	1.04572	1.38857	-0.03155	-2.39230	0.73516	-0.00272	3.23349	0.48948	-0.00834	0.80361
0.02009	1.02833	1.38850	-0.03108	-2.38727	0.72999	-0.00272	3.19068	0.49134	-0.00781	0.80169
0.02057	1.04181	1.38872	-0.03085	-2.38824	0.72684	-0.00272	3.18243	0.49195	-0.00733	0.80005
0.02105	1.08964	1.38930	-0.03092	-2.39585	0.72538	-0.00272	3.21284	0.49118	-0.00693	0.79884
0.02154	1.16271	1.39024	-0.03122	-2.40830	0.72494	-0.00271	3.27256	0.48944	-0.00662	0.79820
0.02205	1.23885	1.39138	-0.03157	-2.42129	0.72386	-0.00269	3.33765	0.48763	-0.00639	0.79800
0.02257	1.28942	1.39252	-0.03175	-2.42924	0.72016	-0.00268	3.37605	0.48688	-0.00619	0.79785
0.02310	1.29218	1.39345	-0.03155	-2.42785	0.71255	-0.00268	3.36237	0.48802	-0.00594	0.79742
0.02364	1.24329	1.39397	-0.03091	-2.41638	0.70147	-0.00269	3.29273	0.49113	-0.00558	0.79629
0.02420	1.15330	1.39406	-0.02992	-2.39693	0.68840	-0.00271	3.18033	0.49579	-0.00504	0.79396
0.02477	1.04125	1.39382	-0.02880	-2.37311	0.67419	-0.00273	3.04740	0.50134	-0.00436	0.79072
0.02535	0.93316	1.39338	-0.02779	-2.34971	0.65944	-0.00274	2.92187	0.50682	-0.00366	0.78735
0.02595	0.85430	1.39294	-0.02710	-2.33167	0.64594	-0.00276	2.82863	0.51116	-0.00303	0.78428
0.02656	0.81319	1.39259	-0.02676	-2.32090	0.63606	-0.00276	2.77491	0.51388	-0.00253	0.78189
0.02719	0.79737	1.39225	-0.02665	-2.31503	0.63028	-0.00277	2.74788	0.51537	-0.00224	0.78081
0.02783	0.79015	1.39179	-0.02665	-2.31071	0.62680	-0.00279	2.73125	0.51631	-0.00219	0.78139
0.02848	0.78180	1.39109	-0.02670	-2.30593	0.62321	-0.00280	2.71556	0.51716	-0.00228	0.78316
0.02915	0.76732	1.39006	-0.02682	-2.29974	0.61830	-0.00281	2.69593	0.51811	-0.00229	0.78462
0.02984	0.74193	1.38855	-0.02705	-2.29126	0.61274	-0.00282	2.66802	0.51926	-0.00201	0.78433
0.03054	0.70713	1.38667	-0.02739	-2.28085	0.60826	-0.00284	2.63407	0.52052	-0.00140	0.78189
0.03126	0.66728	1.38467	-0.02770	-2.26936	0.60586	-0.00286	2.59883	0.52176	-0.00061	0.77816
0.03199	0.62440	1.38271	-0.02786	-2.25706	0.60443	-0.00290	2.56343	0.52306	0.00013	0.77464
0.03275	0.57533	1.38086	-0.02776	-2.24333	0.60159	-0.00293	2.52280	0.52479	0.00063	0.77259
0.03352	0.50977	1.37917	-0.02728	-2.22641	0.59580	-0.00297	2.46555	0.52756	0.00082	0.77244
0.03430	0.41782	1.37765	-0.02642	-2.20454	0.58748	-0.00300	2.38294	0.53180	0.00077	0.77379
0.03511	0.30826	1.37649	-0.02542	-2.17956	0.57875	-0.00305	2.28480	0.53711	0.00063	0.77572
0.03594	0.20437	1.37600	-0.02463	-2.15613	0.57197	-0.00309	2.19302	0.54241	0.00052	0.77747
0.03678	0.12451	1.37618	-0.02431	-2.13773	0.56859	-0.00314	2.12343	0.54673	0.00046	0.77891
0.03765	0.07406	1.37677	-0.02440	-2.12529	0.56911	-0.00319	2.07985	0.54965	0.00043	0.78029
0.03854	0.04844	1.37757	-0.02472	-2.11804	0.57284	-0.00324	2.05758	0.55126	0.00037	0.78183
0.03944	0.03837	1.37840	-0.02513	-2.11433	0.57828	-0.00328	2.04845	0.55195	0.00030	0.78343
0.04037	0.02986	1.37888	-0.02552	-2.11114	0.58383	-0.00331	2.04126	0.55229	0.00021	0.78508
0.04132	0.00584	1.37848	-0.02580	-2.10457	0.58804	-0.00334	2.02267	0.55307	0.00007	0.78707
0.04229	-0.04193	1.37689	-0.02588	-2.09248	0.59030	-0.00338	1.98697	0.55466	-0.00021	0.78994
0.04329	-0.10457	1.37414	-0.02576	-2.07636	0.59106	-0.00342	1.94304	0.55661	-0.00070	0.79432
0.04431	-0.16488	1.37070	-0.02551	-2.05975	0.59129	-0.00346	1.90610	0.55811	-0.00136	0.79986
0.04535	-0.20865	1.36739	-0.02526	-2.04614	0.59256	-0.00350	1.88763	0.55849	-0.00197	0.80501

0.04642	-0.22849	1.36499	-0.02509	-2.03798	0.59696	-0.00353	1.89221	0.55745	-0.00231	0.80814
0.04751	-0.22736	1.36373	-0.02511	-2.03521	0.60577	-0.00357	1.91570	0.55524	-0.00235	0.80896
0.04863	-0.21774	1.36316	-0.02540	-2.03498	0.61854	-0.00362	1.94625	0.55255	-0.00218	0.80821
0.04977	-0.21276	1.36273	-0.02598	-2.03408	0.63354	-0.00367	1.97151	0.55017	-0.00186	0.80638
0.05094	-0.22262	1.36202	-0.02678	-2.03005	0.64879	-0.00373	1.98165	0.54869	-0.00144	0.80401
0.05214	-0.25240	1.36072	-0.02765	-2.02170	0.66276	-0.00379	1.97141	0.54840	-0.00102	0.80152
0.05337	-0.30004	1.35890	-0.02850	-2.00969	0.67468	-0.00386	1.94204	0.54923	-0.00059	0.79883
0.05462	-0.36327	1.35673	-0.02927	-1.99474	0.68412	-0.00391	1.89568	0.55111	-0.00016	0.79602
0.05591	-0.44029	1.35418	-0.02991	-1.97708	0.69081	-0.00397	1.83552	0.55391	0.00019	0.79376
0.05722	-0.53147	1.35090	-0.03032	-1.95602	0.69456	-0.00402	1.76424	0.55755	0.00027	0.79328
0.05857	-0.63672	1.34664	-0.03046	-1.93097	0.69597	-0.00407	1.68480	0.56191	-0.00005	0.79555
0.05995	-0.75182	1.34174	-0.03042	-1.90293	0.69613	-0.00412	1.60187	0.56682	-0.00071	0.80028
0.06136	-0.86736	1.33713	-0.03035	-1.87475	0.69581	-0.00418	1.52239	0.57194	-0.00147	0.80591
0.06280	-0.97446	1.33369	-0.03035	-1.84938	0.69507	-0.00423	1.45151	0.57690	-0.00208	0.81069
0.06428	-1.06805	1.33161	-0.03045	-1.82833	0.69357	-0.00426	1.39111	0.58145	-0.00242	0.81384
0.06579	-1.14754	1.33040	-0.03066	-1.81140	0.69101	-0.00427	1.34012	0.58547	-0.00254	0.81552
0.06734	-1.21777	1.32944	-0.03099	-1.79693	0.68754	-0.00427	1.29476	0.58912	-0.00255	0.81656
0.06893	-1.28580	1.32835	-0.03137	-1.78300	0.68390	-0.00427	1.25083	0.59269	-0.00260	0.81785
0.07055	-1.35668	1.32706	-0.03168	-1.76839	0.68101	-0.00428	1.20618	0.59639	-0.00275	0.81977
0.07221	-1.43219	1.32568	-0.03184	-1.75266	0.67976	-0.00429	1.16098	0.60025	-0.00297	0.82204
0.07391	-1.51248	1.32440	-0.03182	-1.73583	0.68080	-0.00431	1.11598	0.60426	-0.00314	0.82380
0.07565	-1.59381	1.32338	-0.03169	-1.71875	0.68413	-0.00435	1.07366	0.60822	-0.00310	0.82423
0.07743	-1.66900	1.32261	-0.03159	-1.70281	0.68958	-0.00439	1.03811	0.61162	-0.00284	0.82331
0.07925	-1.73064	1.32198	-0.03170	-1.68942	0.69706	-0.00443	1.01313	0.61392	-0.00242	0.82133
0.08111	-1.77611	1.32143	-0.03218	-1.67918	0.70633	-0.00448	0.99916	0.61494	-0.00179	0.81805
0.08302	-1.80878	1.32081	-0.03310	-1.67142	0.71696	-0.00452	0.99293	0.61496	-0.00091	0.81320
0.08498	-1.83505	1.31968	-0.03440	-1.66459	0.72822	-0.00455	0.98964	0.61446	0.00015	0.80739
0.08697	-1.86014	1.31770	-0.03596	-1.65742	0.73900	-0.00458	0.98552	0.61384	0.00130	0.80106
0.08902	-1.88552	1.31483	-0.03762	-1.64965	0.74856	-0.00461	0.97943	0.61322	0.00252	0.79423
0.09112	-1.90971	1.31120	-0.03928	-1.64177	0.75731	-0.00463	0.97241	0.61249	0.00374	0.78739
0.09326	-1.93030	1.30709	-0.04090	-1.63440	0.76595	-0.00465	0.96643	0.61146	0.00484	0.78143
0.09545	-1.94585	1.30283	-0.04249	-1.62797	0.77433	-0.00466	0.96305	0.61008	0.00574	0.77697
0.09770	-1.95568	1.29870	-0.04412	-1.62270	0.78206	-0.00466	0.96337	0.60832	0.00640	0.77438
0.10000	-1.96090	1.29491	-0.04577	-1.61847	0.78926	-0.00466	0.96718	0.60627	0.00681	0.77384
0.10235	-1.96246	1.29156	-0.04736	-1.61516	0.79670	-0.00465	0.97435	0.60398	0.00700	0.77494
0.10476	-1.96136	1.28865	-0.04884	-1.61259	0.80489	-0.00465	0.98460	0.60145	0.00709	0.77679
0.10723	-1.95820	1.28615	-0.05030	-1.61071	0.81437	-0.00465	0.99779	0.59866	0.00730	0.77777
0.10975	-1.95608	1.28388	-0.05175	-1.60883	0.82482	-0.00466	1.01148	0.59584	0.00767	0.77745
0.11233	-1.96084	1.28153	-0.05317	-1.60550	0.83521	-0.00466	1.02089	0.59351	0.00812	0.77638
0.11498	-1.97511	1.27885	-0.05456	-1.59985	0.84442	-0.00467	1.02385	0.59191	0.00851	0.77547
0.11768	-1.99484	1.27591	-0.05601	-1.59267	0.85235	-0.00469	1.02308	0.59076	0.00879	0.77514
0.12045	-2.01686	1.27300	-0.05754	-1.58489	0.85924	-0.00470	1.02059	0.58986	0.00902	0.77513
0.12328	-2.03817	1.27034	-0.05917	-1.57742	0.86603	-0.00471	1.01878	0.58894	0.00923	0.77519
0.12619	-2.05532	1.26819	-0.06076	-1.57130	0.87360	-0.00472	1.02020	0.58773	0.00937	0.77562
0.12916	-2.06406	1.26663	-0.06236	-1.56754	0.88240	-0.00473	1.02794	0.58585	0.00944	0.77622
0.13219	-2.06915	1.26539	-0.06396	-1.56495	0.89112	-0.00473	1.03823	0.58370	0.00947	0.77690
0.13531	-2.07026	1.26445	-0.06561	-1.56364	0.89909	-0.00473	1.05117	0.58129	0.00948	0.77744
0.13849	-2.06826	1.26370	-0.06728	-1.56337	0.90622	-0.00472	1.06598	0.57870	0.00948	0.77786
0.14175	-2.06608	1.26283	-0.06895	-1.56310	0.91193	-0.00471	1.08056	0.57613	0.00942	0.77861
0.14508	-2.07978	1.26161	-0.07061	-1.55937	0.91342	-0.00469	1.08206	0.57502	0.00944	0.77881
0.14850	-2.11072	1.26002	-0.07226	-1.55195	0.91030	-0.00467	1.06883	0.57556	0.00951	0.77866
0.15199	-2.14638	1.25820	-0.07389	-1.54346	0.90475	-0.00463	1.05076	0.57665	0.00945	0.77947
0.15557	-2.18009	1.25628	-0.07554	-1.53531	0.89816	-0.00460	1.03326	0.57770	0.00922	0.78166
0.15923	-2.21419	1.25410	-0.07720	-1.52687	0.89007	-0.00456	1.01526	0.57879	0.00880	0.78540
0.16298	-2.25189	1.25185	-0.07895	-1.51771	0.88062	-0.00451	0.99474	0.58019	0.00835	0.78963
0.16681	-2.29097	1.24951	-0.08072	-1.50823	0.86972	-0.00447	0.97434	0.58157	0.00782	0.79467
0.17074	-2.32690	1.24743	-0.08251	-1.49982	0.85854	-0.00442	0.95764	0.58249	0.00727	0.80020
0.17475	-2.35664	1.24611	-0.08442	-1.49378	0.84841	-0.00436	0.94695	0.58270	0.00684	0.80522
0.17887	-2.38177	1.24580	-0.08640	-1.49005	0.83826	-0.00430	0.94084	0.58244	0.00654	0.80982
0.18307	-2.41089	1.24578	-0.08825	-1.48620	0.82902	-0.00424	0.93348	0.58223	0.00627	0.81443
0.18738	-2.44633	1.24614	-0.08986	-1.48192	0.82179	-0.00420	0.92304	0.58230	0.00592	0.81981
0.19179	-2.48564	1.24681	-0.09120	-1.47759	0.81599	-0.00416	0.91105	0.58250	0.00529	0.82699
0.19631	-2.52785	1.24765	-0.09231	-1.47301	0.80998	-0.00412	0.89855	0.58276	0.00437	0.83591
0.20092	-2.57271	1.24879	-0.09349	-1.46855	0.80565	-0.00409	0.88553	0.58299	0.00337	0.84501
0.20565	-2.61991	1.25031	-0.09487	-1.46455	0.80272	-0.00407	0.87188	0.58317	0.00246	0.85296
0.21049	-2.66730	1.25212	-0.09651	-1.46127	0.80107	-0.00406	0.85944	0.58304	0.00167	0.85968
0.21544	-2.72553	1.25206	-0.09821	-1.45436	0.79679	-0.00404	0.84002	0.58328	0.00073	0.86716
0.22051	-2.78856	1.25112	-0.10010	-1.44598	0.79098	-0.00402	0.81803	0.58357	-0.00020	0.87441
0.22570	-2.84559	1.25108	-0.10237	-1.43989	0.79030	-0.00402	0.80275	0.58294	-0.00074	0.87902
0.23101	-2.89880	1.25119	-0.10485	-1.43506	0.79057	-0.00401	0.79145	0.58164	-0.00106	0.88195
0.23645	-2.94304	1.25138	-0.10771	-1.43257	0.79160	-0.00400	0.78710	0.57914	-0.00108	0.88284
0.24201	-2.98409	1.25096	-0.11091	-1.43033	0.79421	-0.00399	0.78606	0.57583	-0.00109	0.88371
0.24771	-3.03148	1.24923	-0.11406	-1.42562	0.79695	-0.00399	0.78227	0.57244	-0.00154	0.88740
0.25354	-3.07912	1.24796	-0.11738	-1.42164	0.80090	-0.00398	0.77979	0.56881	-0.00174	0.88927
0.25950	-3.12241	1.24742	-0.12080	-1.41950	0.80734	-0.00399	0.78243	0.56447	-0.00160	0.88880
0.26561	-3.16048	1.24751	-0.12438	-1.41939	0.81614	-0.00400	0.79014	0.55940	-0.00116	0.88617
0.27186	-3.19513	1.24830	-0.12805	-1.42107	0.82516	-0.00400	0.80121	0.55396	-0.00066	0.88290
0.27826	-3.23040	1.24811	-0.13162	-1.42172	0.83679	-0.00401	0.81305	0.54807	-0.00068	0.88282
0.28480	-3.25344	1.24867	-0.13537	-1.42587	0.85090	-0.00402	0.83540	0.54088	-0.00073	0.88273
0.29150	-3.26663	1.25002	-0.13928	-1.43308	0.86533	-0.00402	0.86756	0.53269	-0.00068	0.88161
0.29836	-3.28160	1.25138	-0.14294	-1.44015	0.88080	-0.00402	0.90170	0.52436	-0.00080	0.88100

0.30539	-3.29440	1.25301	-0.14653	-1.44844	0.89247	-0.00401	0.93978	0.51577	-0.00074	0.87869
0.31257	-3.30474	1.25547	-0.15015	-1.45828	0.90288	-0.00398	0.98320	0.50702	-0.00042	0.87425
0.31993	-3.31982	1.25738	-0.15389	-1.46640	0.91351	-0.00396	1.02701	0.49831	-0.00027	0.87081
0.32745	-3.34311	1.25901	-0.15769	-1.47245	0.92188	-0.00394	1.06825	0.49000	-0.00008	0.86688
0.33517	-3.37439	1.26087	-0.16157	-1.47718	0.92809	-0.00391	1.10646	0.48223	0.00048	0.86014
0.34304	-3.41278	1.26313	-0.16548	-1.48078	0.93310	-0.00388	1.14220	0.47494	0.00143	0.85046
0.35112	-3.46027	1.26522	-0.16945	-1.48233	0.93552	-0.00385	1.17365	0.46805	0.00250	0.83977
0.35938	-3.51703	1.26719	-0.17340	-1.48165	0.93766	-0.00382	1.20022	0.46163	0.00364	0.82853
0.36784	-3.57872	1.26942	-0.17744	-1.48026	0.93783	-0.00379	1.22561	0.45540	0.00507	0.81537
0.37649	-3.64611	1.27202	-0.18145	-1.47797	0.93529	-0.00375	1.24916	0.44947	0.00671	0.80073
0.38536	-3.71503	1.27469	-0.18545	-1.47534	0.93238	-0.00372	1.27399	0.44350	0.00850	0.78528
0.39442	-3.78420	1.27697	-0.18951	-1.47211	0.92807	-0.00367	1.30066	0.43730	0.01007	0.77148
0.40370	-3.85288	1.27975	-0.19351	-1.46943	0.92413	-0.00363	1.33076	0.43100	0.01174	0.75702
0.41321	-3.92037	1.28251	-0.19755	-1.46689	0.92067	-0.00359	1.36313	0.42463	0.01338	0.74301
0.42292	-3.98500	1.28521	-0.20168	-1.46480	0.91800	-0.00356	1.39857	0.41816	0.01480	0.73064
0.43288	-4.04895	1.28809	-0.20579	-1.46298	0.91586	-0.00352	1.43674	0.41159	0.01607	0.71952
0.44307	-4.11198	1.29110	-0.20993	-1.46134	0.91459	-0.00348	1.47757	0.40499	0.01716	0.70968
0.45349	-4.17346	1.29391	-0.21416	-1.45970	0.91439	-0.00345	1.52085	0.39835	0.01813	0.70107
0.46417	-4.23324	1.29683	-0.21844	-1.45848	0.91457	-0.00342	1.56793	0.39162	0.01908	0.69279
0.47508	-4.29351	1.30004	-0.22265	-1.45732	0.91490	-0.00339	1.61817	0.38485	0.01998	0.68511
0.48626	-4.35330	1.30338	-0.22685	-1.45628	0.91543	-0.00335	1.67192	0.37805	0.02084	0.67814
0.49771	-4.41010	1.30662	-0.23109	-1.45568	0.91642	-0.00332	1.73085	0.37116	0.02163	0.67196
0.50942	-4.46409	1.30998	-0.23534	-1.45570	0.91804	-0.00329	1.79606	0.36414	0.02237	0.66653
0.52140	-4.51813	1.31378	-0.23948	-1.45602	0.92009	-0.00326	1.86577	0.35715	0.02306	0.66161
0.53367	-4.57318	1.31789	-0.24356	-1.45634	0.92225	-0.00324	1.93773	0.35032	0.02375	0.65704
0.54624	-4.62846	1.32197	-0.24767	-1.45653	0.92434	-0.00321	2.01011	0.34376	0.02442	0.65284
0.55910	-4.68429	1.32609	-0.25177	-1.45660	0.92636	-0.00318	2.08229	0.33751	0.02507	0.64904
0.57225	-4.74376	1.33064	-0.25577	-1.45625	0.92810	-0.00316	2.15209	0.33165	0.02567	0.64557
0.58569	-4.80796	1.33573	-0.25962	-1.45534	0.92942	-0.00313	2.21804	0.32624	0.02621	0.64247
0.59948	-4.87577	1.34104	-0.26343	-1.45387	0.93029	-0.00311	2.27970	0.32125	0.02672	0.63980
0.61357	-4.94501	1.34626	-0.26723	-1.45198	0.93078	-0.00308	2.33699	0.31668	0.02717	0.63764
0.62802	-5.01646	1.35156	-0.27103	-1.44972	0.93095	-0.00306	2.39040	0.31246	0.02756	0.63600
0.64280	-5.09156	1.35731	-0.27471	-1.44708	0.93081	-0.00304	2.44002	0.30859	0.02790	0.63483
0.65794	-5.17117	1.36363	-0.27825	-1.44402	0.93035	-0.00302	2.48594	0.30500	0.02818	0.63408
0.67340	-5.25345	1.37020	-0.28171	-1.44061	0.92960	-0.00300	2.52822	0.30170	0.02843	0.63378
0.68927	-5.33690	1.37670	-0.28521	-1.43691	0.92857	-0.00298	2.56705	0.29865	0.02865	0.63398
0.70547	-5.42053	1.38305	-0.28873	-1.43304	0.92736	-0.00296	2.60272	0.29584	0.02885	0.63453
0.72207	-5.50617	1.38963	-0.29220	-1.42899	0.92598	-0.00294	2.63585	0.29324	0.02903	0.63517
0.73910	-5.59554	1.39675	-0.29556	-1.42470	0.92443	-0.00292	2.66636	0.29082	0.02919	0.63556
0.75649	-5.68807	1.40439	-0.29877	-1.42022	0.92272	-0.00290	2.69470	0.28856	0.02934	0.63537
0.77429	-5.78208	1.41226	-0.30194	-1.41566	0.92094	-0.00288	2.72152	0.28642	0.02951	0.63426
0.79246	-5.87531	1.41997	-0.30512	-1.41114	0.91914	-0.00286	2.74687	0.28442	0.02972	0.63198
0.81116	-5.96829	1.42754	-0.30838	-1.40664	0.91732	-0.00285	2.77092	0.28254	0.02995	0.62869
0.83022	-6.06139	1.43513	-0.31161	-1.40216	0.91548	-0.00283	2.79314	0.28080	0.03020	0.62473
0.84976	-6.15714	1.44314	-0.31475	-1.39757	0.91358	-0.00281	2.81346	0.27918	0.03043	0.62044
0.86972	-6.25613	1.45169	-0.31773	-1.39284	0.91159	-0.00280	2.83175	0.27768	0.03063	0.61627
0.89023	-6.35859	1.46074	-0.32060	-1.38791	0.90949	-0.00278	2.84809	0.27627	0.03079	0.61270
0.91116	-6.46214	1.46991	-0.32341	-1.38289	0.90731	-0.00277	2.86229	0.27497	0.03090	0.61025
0.93257	-6.56559	1.47893	-0.32622	-1.37781	0.90508	-0.00275	2.87432	0.27379	0.03098	0.60898
0.95456	-6.66873	1.48774	-0.32908	-1.37272	0.90281	-0.00274	2.88431	0.27272	0.03101	0.60887
0.97704	-6.77186	1.49647	-0.33193	-1.36762	0.90052	-0.00272	2.89221	0.27177	0.03100	0.60988
1.00000	-6.87646	1.50540	-0.33469	-1.36247	0.89819	-0.00271	2.89796	0.27094	0.03093	0.61192
1.02354	-6.98432	1.51480	-0.33730	-1.35716	0.89579	-0.00270	2.90154	0.27021	0.03081	0.61487
1.04767	-7.09581	1.52476	-0.33975	-1.35169	0.89331	-0.00268	2.90318	0.26956	0.03063	0.61860
1.07227	-7.20972	1.53511	-0.34203	-1.34611	0.89079	-0.00267	2.90320	0.26898	0.03041	0.62293
1.09745	-7.32511	1.54565	-0.34421	-1.34048	0.88827	-0.00266	2.90194	0.26845	0.03016	0.62774
1.12334	-7.44113	1.55617	-0.34636	-1.33482	0.88575	-0.00265	2.89943	0.26798	0.02990	0.63296
1.14982	-7.55633	1.56647	-0.34851	-1.32922	0.88329	-0.00264	2.89572	0.26758	0.02963	0.63848
1.17675	-7.67009	1.57649	-0.35064	-1.32372	0.88089	-0.00263	2.89078	0.26726	0.02936	0.64413
1.20453	-7.78489	1.58654	-0.35273	-1.31820	0.87852	-0.00262	2.88451	0.26701	0.02908	0.64986
1.23289	-7.90067	1.59673	-0.35471	-1.31268	0.87618	-0.00261	2.87699	0.26682	0.02879	0.65545
1.26183	-8.01838	1.60724	-0.35653	-1.30714	0.87388	-0.00260	2.86842	0.26668	0.02849	0.66084
1.29149	-8.13916	1.61824	-0.35817	-1.30152	0.87158	-0.00259	2.85884	0.26658	0.02816	0.66613
1.32188	-8.26288	1.62970	-0.35962	-1.29581	0.86930	-0.00258	2.84850	0.26650	0.02781	0.67141
1.35300	-8.38885	1.64153	-0.36090	-1.29007	0.86706	-0.00257	2.83760	0.26644	0.02744	0.67677
1.38485	-8.51605	1.65353	-0.36205	-1.28433	0.86489	-0.00256	2.82630	0.26639	0.02705	0.68236
1.41743	-8.64341	1.66552	-0.36312	-1.27865	0.86281	-0.00255	2.81467	0.26637	0.02665	0.68832
1.45075	-8.77010	1.67736	-0.36413	-1.27306	0.86083	-0.00254	2.80270	0.26637	0.02624	0.69472
1.48500	-8.89653	1.68905	-0.36510	-1.26756	0.85897	-0.00254	2.79033	0.26641	0.02582	0.70159
1.51999	-9.02192	1.70054	-0.36602	-1.26219	0.85723	-0.00253	2.77768	0.26649	0.02539	0.70887
1.55569	-9.14675	1.71192	-0.36686	-1.25693	0.85561	-0.00252	2.76469	0.26660	0.02495	0.71655
1.59236	-9.27245	1.72340	-0.36759	-1.25172	0.85408	-0.00251	2.75136	0.26673	0.02449	0.72465
1.62973	-9.39885	1.73502	-0.36817	-1.24659	0.85265	-0.00251	2.73778	0.26689	0.02402	0.73307
1.66806	-9.52729	1.74697	-0.36858	-1.24147	0.85130	-0.00250	2.72398	0.26706	0.02352	0.74182
1.70736	-9.65805	1.75930	-0.36880	-1.23636	0.85003	-0.00250	2.71004	0.26724	0.02300	0.75091
1.74764	-9.79108	1.77202	-0.36882	-1.23126	0.84884	-0.00249	2.69607	0.26742	0.02247	0.76030
1.78859	-9.92507	1.78497	-0.36867	-1.22620	0.84774	-0.00248	2.68224	0.26758	0.02193	0.76990
1.83083	-10.06155	1.79827	-0.36834	-1.22115	0.84673	-0.00248	2.66842	0.26775	0.02137	0.77985
1.87371	-10.19780	1.81160	-0.36788	-1.21619	0.84583	-0.00247	2.65486	0.26790	0.02082	0.78996
1.91791	-10.33537	1.82507	-0.36730	-1.21127	0.84503	-0.00247	2.64131	0.26805	0.02027	0.80033
1.96309	-10.47259	1.83847	-0.36662	-1.20645	0.84434	-0.00247	2.62790	0.26821	0.01974	0.81075

2.00924	-10.60903	1.85173	-0.36586	-1.20175	0.84378	-0.00246	2.61459	0.26837	0.01921	0.82109
2.05634	-10.74440	1.86479	-0.36504	-1.19718	0.84333	-0.00246	2.60138	0.26855	0.01871	0.83121
2.10482	-10.87982	1.87777	-0.36413	-1.19271	0.84301	-0.00245	2.58812	0.26874	0.01823	0.84101
2.15424	-11.01415	1.89057	-0.36315	-1.18837	0.84279	-0.00245	2.57494	0.26894	0.01776	0.85023
2.20507	-11.14883	1.90336	-0.36207	-1.18411	0.84268	-0.00244	2.56170	0.26916	0.01732	0.85883
2.25683	-11.28286	1.91607	-0.36089	-1.17998	0.84267	-0.00244	2.54854	0.26939	0.01689	0.86679
2.31000	-11.41777	1.92887	-0.35958	-1.17592	0.84275	-0.00244	2.53536	0.26964	0.01647	0.87427
2.36463	-11.55384	1.94183	-0.35812	-1.17192	0.84291	-0.00243	2.52216	0.26989	0.01607	0.88137
2.42014	-11.68985	1.95486	-0.35652	-1.16801	0.84315	-0.00243	2.50911	0.27014	0.01567	0.88817
2.47709	-11.82728	1.96810	-0.35476	-1.16416	0.84347	-0.00242	2.49613	0.27039	0.01527	0.89488
2.53550	-11.96609	1.98156	-0.35284	-1.16036	0.84385	-0.00242	2.48327	0.27064	0.01487	0.90167
2.59471	-12.10470	1.99511	-0.35078	-1.15665	0.84430	-0.00242	2.47068	0.27089	0.01447	0.90860
2.65604	-12.24606	2.00901	-0.34853	-1.15297	0.84483	-0.00241	2.45809	0.27114	0.01406	0.91590
2.71887	-12.38833	2.02307	-0.34615	-1.14934	0.84543	-0.00241	2.44569	0.27139	0.01365	0.92353
2.78242	-12.52970	2.03711	-0.34365	-1.14582	0.84608	-0.00241	2.43362	0.27162	0.01325	0.93146
2.84819	-12.67310	2.05138	-0.34099	-1.14237	0.84682	-0.00240	2.42157	0.27187	0.01284	0.93997
2.91545	-12.81661	2.06570	-0.33824	-1.13896	0.84760	-0.00240	2.40974	0.27211	0.01244	0.94899
2.98329	-12.95815	2.07981	-0.33539	-1.13575	0.84847	-0.00240	2.39823	0.27237	0.01204	0.95833
3.05344	-13.10081	2.09403	-0.33247	-1.13254	0.84938	-0.00239	2.38682	0.27261	0.01165	0.96795
3.12598	-13.24480	2.10834	-0.32938	-1.12946	0.85040	-0.00239	2.37540	0.27289	0.01127	0.97771
3.19898	-13.38559	2.12230	-0.32630	-1.12649	0.85144	-0.00238	2.36441	0.27315	0.01090	0.98701
3.27439	-13.52745	2.13632	-0.32309	-1.12366	0.85258	-0.00238	2.35339	0.27345	0.01055	0.99587
3.35121	-13.66756	2.15009	-0.31986	-1.12090	0.85374	-0.00238	2.34262	0.27374	0.01022	1.00399
3.43053	-13.80870	2.16393	-0.31649	-1.11829	0.85499	-0.00237	2.33180	0.27407	0.00989	1.01175
3.51124	-13.94773	2.17748	-0.31314	-1.11573	0.85625	-0.00237	2.32128	0.27437	0.00958	1.01923
3.59324	-14.08566	2.19086	-0.30965	-1.11342	0.85760	-0.00236	2.31083	0.27474	0.00928	1.02686
3.67782	-14.22347	2.20422	-0.30620	-1.11101	0.85892	-0.00236	2.30059	0.27506	0.00898	1.03495
3.76506	-14.36223	2.21753	-0.30247	-1.10895	0.86041	-0.00235	2.29022	0.27549	0.00867	1.04410
3.85356	-14.49905	2.23078	-0.29893	-1.10668	0.86176	-0.00235	2.28028	0.27580	0.00838	1.05381
3.94477	-14.63626	2.24380	-0.29504	-1.10487	0.86332	-0.00234	2.27021	0.27627	0.00807	1.06436
4.03714	-14.77235	2.25696	-0.29131	-1.10284	0.86474	-0.00234	2.26045	0.27663	0.00779	1.07499
4.13223	-14.90780	2.26981	-0.28742	-1.10105	0.86627	-0.00233	2.25084	0.27704	0.00750	1.08579
4.23012	-15.04513	2.28291	-0.28329	-1.09946	0.86787	-0.00232	2.24110	0.27754	0.00721	1.09643
4.32900	-15.17951	2.29587	-0.27949	-1.09753	0.86927	-0.00232	2.23201	0.27785	0.00697	1.10610
4.43066	-15.31427	2.30848	-0.27514	-1.09631	0.87096	-0.00231	2.22267	0.27841	0.00668	1.11545
4.53515	-15.45082	2.32169	-0.27098	-1.09468	0.87247	-0.00231	2.21363	0.27881	0.00644	1.12396
4.64253	-15.58570	2.33455	-0.26686	-1.09307	0.87396	-0.00230	2.20496	0.27917	0.00620	1.13185
4.75059	-15.71952	2.34706	-0.26219	-1.09221	0.87571	-0.00229	2.19601	0.27981	0.00593	1.13933
4.86145	-15.85441	2.36025	-0.25803	-1.09059	0.87711	-0.00228	2.18774	0.28012	0.00572	1.14593
4.97760	-15.98956	2.37301	-0.25362	-1.08929	0.87865	-0.00228	2.17950	0.28054	0.00549	1.15233
5.09424	-16.12402	2.38554	-0.24862	-1.08875	0.88046	-0.00227	2.17089	0.28125	0.00522	1.15850
5.21376	-16.25948	2.39888	-0.24431	-1.08722	0.88182	-0.00226	2.16327	0.28151	0.00503	1.16386
5.33618	-16.39116	2.41132	-0.23994	-1.08600	0.88326	-0.00225	2.15593	0.28185	0.00482	1.16906
5.46150	-16.52427	2.42349	-0.23462	-1.08587	0.88514	-0.00225	2.14771	0.28267	0.00454	1.17459
5.58971	-16.65960	2.43673	-0.22997	-1.08473	0.88657	-0.00224	2.14054	0.28301	0.00434	1.17958
5.72082	-16.79074	2.44945	-0.22587	-1.08316	0.88776	-0.00223	2.13440	0.28309	0.00417	1.18440
5.85823	-16.92344	2.46123	-0.22033	-1.08332	0.88967	-0.00222	2.12653	0.28397	0.00389	1.19029
5.99520	-17.05673	2.47380	-0.21506	-1.08304	0.89134	-0.00221	2.11933	0.28461	0.00364	1.19597
6.13497	-17.18886	2.48703	-0.21097	-1.08137	0.89239	-0.00220	2.11428	0.28453	0.00350	1.20111
6.28141	-17.31752	2.49874	-0.20629	-1.08070	0.89382	-0.00219	2.10842	0.28490	0.00329	1.20699
6.42674	-17.44430	2.50974	-0.20044	-1.08150	0.89578	-0.00219	2.10078	0.28598	0.00299	1.21353
6.57895	-17.57802	2.52250	-0.19521	-1.08112	0.89728	-0.00218	2.09485	0.28645	0.00276	1.21979
6.73401	-17.70901	2.53569	-0.19140	-1.07926	0.89813	-0.00217	2.09200	0.28605	0.00266	1.22544
6.89180	-17.83101	2.54631	-0.18667	-1.07906	0.89955	-0.00216	2.08690	0.28650	0.00245	1.23195
7.05716	-17.95863	2.55689	-0.18030	-1.08042	0.90162	-0.00215	2.07878	0.28784	0.00211	1.23942
7.22022	-18.08593	2.56871	-0.17500	-1.08047	0.90310	-0.00214	2.07361	0.28837	0.00189	1.24592
7.39098	-18.21639	2.58190	-0.17115	-1.07873	0.90386	-0.00213	2.07289	0.28777	0.00180	1.25153
7.56430	-18.33559	2.59269	-0.16735	-1.07768	0.90479	-0.00212	2.07164	0.28750	0.00168	1.25713
7.73994	-18.45131	2.60125	-0.16107	-1.07959	0.90683	-0.00211	2.06253	0.28915	0.00133	1.26378
7.92393	-18.57635	2.61188	-0.15503	-1.08065	0.90858	-0.00210	2.05604	0.29020	0.00104	1.26968
8.11030	-18.70306	2.62383	-0.15012	-1.08035	0.90976	-0.00209	2.05385	0.29028	0.00087	1.27442
8.29876	-18.82670	2.63659	-0.14724	-1.07807	0.91010	-0.00208	2.05984	0.28876	0.00088	1.27768
8.49618	-18.93951	2.64570	-0.14312	-1.07791	0.91118	-0.00207	2.05855	0.28882	0.00072	1.28189
8.69565	-19.05080	2.65294	-0.13625	-1.08066	0.91335	-0.00206	2.04556	0.29119	0.00031	1.28742
8.90472	-19.17259	2.66295	-0.13024	-1.08189	0.91499	-0.00205	2.03965	0.29223	0.00003	1.29206
9.11577	-19.29484	2.67383	-0.12506	-1.08219	0.91622	-0.00204	2.03786	0.29249	-0.00016	1.29611
9.32836	-19.41887	2.68684	-0.12212	-1.08011	0.91645	-0.00203	2.04924	0.29049	-0.00013	1.29878
9.54198	-19.52655	2.69681	-0.11985	-1.07840	0.91671	-0.00201	2.06172	0.28854	-0.00010	1.30175
9.76563	-19.62662	2.70186	-0.11353	-1.08118	0.91865	-0.00201	2.04377	0.29142	-0.00051	1.30794
10.00000	-19.73792	2.70904	-0.10654	-1.08398	0.92071	-0.00200	2.02959	0.29390	-0.00093	1.31471

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Low stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 15 - 30 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.61369	3.36744	-0.04625	-1.69976	1.06593	-0.00107	1.28854	0.44320	-0.00468	0.25397
PGV	9.62081	1.90515	0.01669	-4.01569	1.94361	-0.00073	19.56306	0.24212	-0.03694	0.60847
PGA	-0.24082	1.41872	-0.05484	-2.23008	1.03212	-0.00323	2.95459	0.49146	-0.02288	0.72889
0.01000	0.52764	1.44629	-0.04927	-2.39320	1.02685	-0.00301	3.60779	0.47605	-0.00510	0.70505
0.01024	0.56483	1.44850	-0.04857	-2.40152	1.02349	-0.00299	3.62926	0.47620	-0.00520	0.70639
0.01048	0.60262	1.45070	-0.04785	-2.40991	1.02001	-0.00297	3.65042	0.47636	-0.00531	0.70779
0.01072	0.64228	1.45288	-0.04714	-2.41862	1.01647	-0.00294	3.67289	0.47648	-0.00542	0.70916
0.01097	0.68547	1.45509	-0.04642	-2.42797	1.01299	-0.00292	3.69858	0.47650	-0.00554	0.71058
0.01123	0.73382	1.45736	-0.04571	-2.43833	1.00970	-0.00290	3.72936	0.47638	-0.00570	0.71216
0.01150	0.78578	1.45970	-0.04500	-2.44939	1.00642	-0.00288	3.76325	0.47618	-0.00586	0.71379
0.01177	0.84083	1.46211	-0.04429	-2.46103	1.00301	-0.00285	3.79950	0.47593	-0.00603	0.71544
0.01205	0.89980	1.46456	-0.04357	-2.47341	0.99957	-0.00282	3.83946	0.47560	-0.00622	0.71720
0.01233	0.95746	1.46699	-0.04284	-2.48549	0.99599	-0.00280	3.87720	0.47534	-0.00640	0.71886
0.01262	1.01233	1.46938	-0.04210	-2.49701	0.99224	-0.00277	3.91085	0.47520	-0.00654	0.72025
0.01292	1.06721	1.47175	-0.04136	-2.50847	0.98833	-0.00275	3.94396	0.47509	-0.00666	0.72145
0.01322	1.12075	1.47409	-0.04059	-2.51958	0.98416	-0.00272	3.97542	0.47503	-0.00677	0.72260
0.01353	1.16654	1.47632	-0.03978	-2.52905	0.97943	-0.00270	3.99786	0.47525	-0.00687	0.72370
0.01385	1.20200	1.47837	-0.03900	-2.53633	0.97404	-0.00268	4.00836	0.47580	-0.00697	0.72483
0.01417	1.23739	1.48038	-0.03825	-2.54352	0.96866	-0.00266	4.01866	0.47635	-0.00709	0.72610
0.01451	1.28256	1.48254	-0.03749	-2.55269	0.96378	-0.00264	4.03948	0.47660	-0.00720	0.72732
0.01485	1.33282	1.48477	-0.03669	-2.56290	0.95912	-0.00261	4.06511	0.47671	-0.00725	0.72817
0.01520	1.37520	1.48685	-0.03593	-2.57148	0.95404	-0.00259	4.08099	0.47709	-0.00724	0.72870
0.01556	1.40717	1.48877	-0.03521	-2.57787	0.94845	-0.00257	4.08466	0.47780	-0.00726	0.72945
0.01592	1.43646	1.49066	-0.03447	-2.58364	0.94261	-0.00256	4.08530	0.47861	-0.00737	0.73091
0.01630	1.46699	1.49260	-0.03364	-2.58955	0.93644	-0.00254	4.08741	0.47941	-0.00757	0.73304
0.01668	1.49968	1.49462	-0.03275	-2.59580	0.92958	-0.00252	4.09171	0.48020	-0.00778	0.73530
0.01707	1.53399	1.49664	-0.03190	-2.60222	0.92191	-0.00250	4.09749	0.48098	-0.00793	0.73728
0.01748	1.56686	1.49860	-0.03114	-2.60826	0.91392	-0.00248	4.10122	0.48182	-0.00799	0.73870
0.01789	1.60107	1.50065	-0.03043	-2.61468	0.90661	-0.00246	4.10528	0.48262	-0.00793	0.73940
0.01831	1.64525	1.50298	-0.02971	-2.62325	0.90029	-0.00244	4.11897	0.48316	-0.00782	0.73988
0.01874	1.68999	1.50534	-0.02896	-2.63184	0.89373	-0.00241	4.13290	0.48372	-0.00781	0.74096
0.01918	1.71432	1.50733	-0.02815	-2.63610	0.88568	-0.00240	4.12479	0.48491	-0.00787	0.74260
0.01963	1.71603	1.50891	-0.02727	-2.63574	0.87658	-0.00239	4.09213	0.48675	-0.00792	0.74418
0.02009	1.71022	1.51033	-0.02640	-2.63388	0.86767	-0.00238	4.05154	0.48879	-0.00787	0.74509
0.02057	1.70797	1.51165	-0.02565	-2.63259	0.85955	-0.00237	4.01647	0.49061	-0.00762	0.74476
0.02105	1.71292	1.51280	-0.02508	-2.63232	0.85176	-0.00236	3.99276	0.49207	-0.00721	0.74339
0.02154	1.72269	1.51373	-0.02461	-2.63253	0.84334	-0.00236	3.97799	0.49327	-0.00679	0.74205
0.02205	1.72828	1.51460	-0.02415	-2.63176	0.83343	-0.00234	3.95946	0.49463	-0.00645	0.74107
0.02257	1.72746	1.51559	-0.02365	-2.62986	0.82246	-0.00233	3.93236	0.49630	-0.00617	0.74049
0.02310	1.72328	1.51672	-0.02302	-2.62743	0.81193	-0.00232	3.90034	0.49815	-0.00601	0.74062
0.02364	1.70614	1.51784	-0.02218	-2.62268	0.80265	-0.00232	3.85393	0.50040	-0.00594	0.74133
0.02420	1.66902	1.51873	-0.02126	-2.61415	0.79397	-0.00233	3.78693	0.50323	-0.00587	0.74211
0.02477	1.62785	1.51929	-0.02050	-2.60449	0.78505	-0.00234	3.71846	0.50610	-0.00574	0.74258
0.02535	1.60048	1.51965	-0.02001	-2.59685	0.77558	-0.00234	3.66781	0.50845	-0.00552	0.74241
0.02595	1.57924	1.51996	-0.01972	-2.59003	0.76539	-0.00235	3.62505	0.51061	-0.00515	0.74131
0.02656	1.54393	1.52031	-0.01949	-2.58058	0.75483	-0.00235	3.56805	0.51327	-0.00467	0.73958
0.02719	1.49405	1.52076	-0.01904	-2.56865	0.74523	-0.00237	3.49821	0.51635	-0.00422	0.73811
0.02783	1.43969	1.52140	-0.01816	-2.55636	0.73813	-0.00239	3.42726	0.51942	-0.00376	0.73656
0.02848	1.38729	1.52220	-0.01701	-2.54491	0.73344	-0.00241	3.36051	0.52229	-0.00313	0.73381
0.02915	1.33859	1.52293	-0.01598	-2.53426	0.72905	-0.00244	3.29814	0.52500	-0.00236	0.73000
0.02984	1.28838	1.52332	-0.01528	-2.52275	0.72240	-0.00246	3.23581	0.52779	-0.00166	0.72666
0.03054	1.22478	1.52315	-0.01475	-2.50765	0.71224	-0.00247	3.16379	0.53111	-0.00125	0.72518
0.03126	1.13421	1.52240	-0.01419	-2.48655	0.69851	-0.00249	3.06804	0.53550	-0.00107	0.72531
0.03199	1.01740	1.52131	-0.01355	-2.46018	0.68210	-0.00251	2.94699	0.54109	-0.00091	0.72562
0.03275	0.89514	1.52034	-0.01282	-2.43307	0.66579	-0.00254	2.82052	0.54712	-0.00069	0.72568
0.03352	0.79109	1.51969	-0.01205	-2.40977	0.65269	-0.00256	2.71345	0.55247	-0.00053	0.72615
0.03430	0.71974	1.51941	-0.01141	-2.39301	0.64467	-0.00259	2.64072	0.55630	-0.00036	0.72678
0.03511	0.68605	1.51940	-0.01116	-2.38383	0.64266	-0.00262	2.60639	0.55818	-0.00005	0.72651
0.03594	0.68104	1.51904	-0.01137	-2.38023	0.64564	-0.00265	2.60161	0.55834	0.00042	0.72509
0.03678	0.68578	1.51794	-0.01187	-2.37832	0.65078	-0.00268	2.60841	0.55766	0.00103	0.72262
0.03765	0.68700	1.51654	-0.01237	-2.37568	0.65471	-0.00270	2.61298	0.55703	0.00172	0.71946
0.03854	0.67782	1.51547	-0.01262	-2.37112	0.65479	-0.00272	2.60743	0.55711	0.00236	0.71656
0.03944	0.64609	1.51484	-0.01245	-2.36212	0.65009	-0.00274	2.58053	0.55855	0.00284	0.71480
0.04037	0.58521	1.51450	-0.01180	-2.34720	0.64149	-0.00276	2.52775	0.56155	0.00315	0.71433
0.04132	0.50623	1.51449	-0.01088	-2.32847	0.63131	-0.00279	2.46089	0.56554	0.00332	0.71497
0.04229	0.42621	1.51497	-0.00992	-2.30941	0.62218	-0.00282	2.39573	0.56967	0.00335	0.71669
0.04329	0.34933	1.51578	-0.00902	-2.29105	0.61601	-0.00287	2.33550	0.57363	0.00322	0.71951
0.04431	0.26130	1.51631	-0.00817	-2.27069	0.61309	-0.00293	2.26734	0.57788	0.00298	0.72291
0.04535	0.14154	1.51576	-0.00731	-2.24428	0.61165	-0.00300	2.17369	0.58329	0.00280	0.72578

0.04642	-0.01293	1.51377	-0.00642	-2.21117	0.60920	-0.00307	2.05242	0.59017	0.00282	0.72696
0.04751	-0.17964	1.51069	-0.00556	-2.17565	0.60537	-0.00313	1.92313	0.59768	0.00310	0.72607
0.04863	-0.33199	1.50703	-0.00479	-2.14260	0.60172	-0.00319	1.80822	0.60460	0.00356	0.72364
0.04977	-0.45486	1.50309	-0.00422	-2.11462	0.59955	-0.00324	1.71905	0.61010	0.00410	0.72067
0.05094	-0.54272	1.49924	-0.00397	-2.09285	0.59913	-0.00329	1.65826	0.61385	0.00469	0.71750
0.05214	-0.59711	1.49613	-0.00410	-2.07768	0.60041	-0.00333	1.62319	0.61591	0.00538	0.71402
0.05337	-0.62696	1.49416	-0.00444	-2.06798	0.60344	-0.00336	1.60621	0.61680	0.00602	0.71091
0.05462	-0.64833	1.49309	-0.00477	-2.06078	0.60762	-0.00339	1.59495	0.61735	0.00643	0.70918
0.05591	-0.68143	1.49229	-0.00489	-2.05196	0.61140	-0.00343	1.57455	0.61861	0.00657	0.70900
0.05722	-0.74131	1.49112	-0.00479	-2.03823	0.61369	-0.00347	1.53463	0.62134	0.00652	0.71004
0.05857	-0.82975	1.48906	-0.00464	-2.01872	0.61426	-0.00351	1.47500	0.62559	0.00643	0.71140
0.05995	-0.93220	1.48604	-0.00467	-1.99602	0.61451	-0.00355	1.40723	0.63051	0.00654	0.71166
0.06136	-1.01943	1.48269	-0.00513	-1.97606	0.61759	-0.00359	1.35237	0.63429	0.00699	0.70978
0.06280	-1.06770	1.47941	-0.00616	-1.96352	0.62586	-0.00364	1.32656	0.63533	0.00777	0.70571
0.06428	-1.07553	1.47579	-0.00767	-1.95800	0.63919	-0.00369	1.33148	0.63334	0.00870	0.70079
0.06579	-1.05866	1.47147	-0.00942	-1.95591	0.65595	-0.00374	1.35775	0.62927	0.00951	0.69669
0.06734	-1.03603	1.46683	-0.01109	-1.95403	0.67501	-0.00380	1.39262	0.62450	0.01004	0.69451
0.06893	-1.02090	1.46251	-0.01242	-1.95068	0.69508	-0.00387	1.42503	0.62017	0.01023	0.69463
0.07055	-1.02010	1.45888	-0.01335	-1.94516	0.71377	-0.00394	1.44701	0.61705	0.01015	0.69653
0.07221	-1.03728	1.45566	-0.01397	-1.93660	0.72893	-0.00401	1.45365	0.61550	0.00994	0.69938
0.07391	-1.07560	1.45209	-0.01448	-1.92365	0.73979	-0.00407	1.44232	0.61561	0.00970	0.70247
0.07565	-1.13670	1.44775	-0.01499	-1.90561	0.74668	-0.00413	1.41268	0.61730	0.00953	0.70510
0.07743	-1.22044	1.44276	-0.01546	-1.88287	0.75022	-0.00419	1.36576	0.62052	0.00951	0.70672
0.07925	-1.32622	1.43748	-0.01578	-1.85625	0.75082	-0.00424	1.30255	0.62527	0.00963	0.70713
0.08111	-1.44688	1.43225	-0.01601	-1.82767	0.74939	-0.00429	1.22887	0.63122	0.00980	0.70689
0.08302	-1.56678	1.42734	-0.01634	-1.80024	0.74699	-0.00433	1.15608	0.63739	0.00985	0.70724
0.08498	-1.67158	1.42274	-0.01697	-1.77635	0.74398	-0.00435	1.09396	0.64280	0.00966	0.70902
0.08697	-1.75579	1.41819	-0.01796	-1.75644	0.73989	-0.00436	1.04596	0.64694	0.00928	0.71202
0.08902	-1.82300	1.41350	-0.01922	-1.73931	0.73406	-0.00436	1.00996	0.64993	0.00880	0.71565
0.09112	-1.88067	1.40878	-0.02057	-1.72349	0.72610	-0.00435	0.98158	0.65227	0.00825	0.71969
0.09326	-1.93556	1.40444	-0.02183	-1.70820	0.71575	-0.00433	0.95647	0.65450	0.00769	0.72382
0.09545	-1.99044	1.40083	-0.02291	-1.69350	0.70380	-0.00431	0.93244	0.65687	0.00719	0.72769
0.09770	-2.04450	1.39821	-0.02381	-1.68004	0.69298	-0.00429	0.90985	0.65924	0.00675	0.73138
0.10000	-2.09423	1.39678	-0.02465	-1.66882	0.68721	-0.00428	0.89097	0.66119	0.00632	0.73509
0.10235	-2.13589	1.39627	-0.02569	-1.66034	0.68918	-0.00429	0.87748	0.66229	0.00593	0.73854
0.10476	-2.16841	1.39583	-0.02717	-1.65411	0.69879	-0.00432	0.86875	0.66245	0.00567	0.74095
0.10723	-2.19376	1.39473	-0.02912	-1.64915	0.71422	-0.00436	0.86254	0.66186	0.00556	0.74206
0.10975	-2.21344	1.39278	-0.03135	-1.64506	0.73359	-0.00441	0.85781	0.66067	0.00553	0.74248
0.11233	-2.22826	1.39036	-0.03365	-1.64206	0.75526	-0.00446	0.85466	0.65900	0.00547	0.74289
0.11498	-2.24062	1.38783	-0.03586	-1.63995	0.77738	-0.00450	0.85248	0.65706	0.00534	0.74368
0.11768	-2.25449	1.38504	-0.03795	-1.63763	0.79818	-0.00453	0.84943	0.65516	0.00514	0.74497
0.12045	-2.27477	1.38141	-0.04001	-1.63334	0.81656	-0.00456	0.84300	0.65364	0.00490	0.74665
0.12328	-2.30239	1.37647	-0.04221	-1.62627	0.83217	-0.00459	0.83265	0.65249	0.00465	0.74845
0.12619	-2.33169	1.37030	-0.04473	-1.61764	0.84512	-0.00460	0.82119	0.65131	0.00449	0.74977
0.12916	-2.35712	1.36357	-0.04767	-1.60934	0.85526	-0.00461	0.81130	0.64977	0.00452	0.74974
0.13219	-2.38033	1.35705	-0.05087	-1.60201	0.86210	-0.00459	0.80213	0.64812	0.00477	0.74791
0.13531	-2.40595	1.35140	-0.05407	-1.59538	0.86533	-0.00456	0.79185	0.64679	0.00522	0.74444
0.13849	-2.43484	1.34695	-0.05714	-1.58942	0.86530	-0.00452	0.78082	0.64584	0.00580	0.73994
0.14175	-2.46272	1.34353	-0.06012	-1.58454	0.86334	-0.00448	0.77192	0.64483	0.00633	0.73571
0.14508	-2.48364	1.34072	-0.06308	-1.58120	0.86153	-0.00443	0.76878	0.64310	0.00656	0.73355
0.14850	-2.49386	1.33814	-0.06608	-1.57956	0.86186	-0.00439	0.77380	0.64021	0.00631	0.73479
0.15199	-2.49343	1.33575	-0.06909	-1.57949	0.86554	-0.00436	0.78736	0.63609	0.00557	0.73943
0.15557	-2.48632	1.33376	-0.07205	-1.58057	0.87275	-0.00435	0.80744	0.63115	0.00461	0.74589
0.15923	-2.47454	1.33251	-0.07490	-1.58296	0.88371	-0.00435	0.83320	0.62559	0.00376	0.75192
0.16298	-2.45824	1.33220	-0.07763	-1.58706	0.89874	-0.00436	0.86438	0.61949	0.00321	0.75622
0.16681	-2.43543	1.33255	-0.08033	-1.59311	0.91722	-0.00439	0.90200	0.61273	0.00302	0.75851
0.17074	-2.40598	1.33302	-0.08311	-1.60060	0.93722	-0.00441	0.94544	0.60543	0.00308	0.75941
0.17475	-2.37068	1.33301	-0.08607	-1.60865	0.95650	-0.00442	0.99404	0.59771	0.00325	0.75982
0.17887	-2.33124	1.33225	-0.08927	-1.61646	0.97394	-0.00443	1.04703	0.58974	0.00342	0.76049
0.18307	-2.28907	1.33092	-0.09261	-1.62389	0.98978	-0.00443	1.10375	0.58171	0.00353	0.76163
0.18738	-2.24804	1.32935	-0.09589	-1.63052	1.00446	-0.00443	1.16149	0.57400	0.00362	0.76295
0.19179	-2.21009	1.32783	-0.09901	-1.63637	1.01810	-0.00443	1.21846	0.56680	0.00376	0.76381
0.19631	-2.17773	1.32645	-0.10190	-1.64111	1.03007	-0.00443	1.27186	0.56037	0.00400	0.76391
0.20092	-2.15279	1.32501	-0.10458	-1.64421	1.03979	-0.00442	1.31939	0.55482	0.00429	0.76362
0.20565	-2.13766	1.32326	-0.10710	-1.64491	1.04678	-0.00441	1.35826	0.55027	0.00455	0.76348
0.21049	-2.13260	1.32112	-0.10952	-1.64302	1.05101	-0.00439	1.38757	0.54672	0.00473	0.76394
0.21544	-2.13262	1.31887	-0.11192	-1.63982	1.05329	-0.00437	1.41128	0.54381	0.00484	0.76479
0.22051	-2.13332	1.31692	-0.11436	-1.63659	1.05446	-0.00435	1.43365	0.54122	0.00502	0.76523
0.22570	-2.12845	1.31555	-0.11685	-1.63487	1.05550	-0.00433	1.46110	0.53844	0.00528	0.76507
0.23101	-2.12302	1.31457	-0.11934	-1.63349	1.05613	-0.00430	1.48962	0.53578	0.00561	0.76446
0.23645	-2.12197	1.31384	-0.12180	-1.63135	1.05603	-0.00428	1.51516	0.53349	0.00600	0.76360
0.24201	-2.12279	1.31345	-0.12422	-1.62916	1.05530	-0.00425	1.54005	0.53138	0.00642	0.76271
0.24771	-2.12124	1.31373	-0.12655	-1.62821	1.05440	-0.00422	1.56784	0.52920	0.00687	0.76174
0.25354	-2.12215	1.31471	-0.12880	-1.62770	1.05311	-0.00419	1.59364	0.52731	0.00745	0.76000
0.25950	-2.13035	1.31614	-0.13097	-1.62641	1.05092	-0.00416	1.61283	0.52597	0.00814	0.75744
0.26561	-2.15135	1.31753	-0.13303	-1.62282	1.04688	-0.00413	1.61938	0.52550	0.00890	0.75434
0.27186	-2.18799	1.31865	-0.13504	-1.61609	1.04031	-0.00411	1.61116	0.52599	0.00973	0.75051
0.27826	-2.24516	1.31910	-0.13699	-1.60491	1.03180	-0.00408	1.58420	0.52761	0.01061	0.74621
0.28480	-2.31400	1.31905	-0.13895	-1.59144	1.02214	-0.00406	1.54634	0.52983	0.01147	0.74185
0.29150	-2.38538	1.31917	-0.14091	-1.57831	1.01143	-0.00403	1.50694	0.53205	0.01237	0.73712
0.29836	-2.45464	1.31991	-0.14292	-1.56703	1.00045	-0.00399	1.47004	0.53408	0.01329	0.73228

0.30539	-2.51795	1.32184	-0.14489	-1.55894	0.99178	-0.00395	1.43963	0.53562	0.01415	0.72786
0.31257	-2.57217	1.32453	-0.14689	-1.55412	0.98577	-0.00390	1.41868	0.53635	0.01480	0.72498
0.31993	-2.61999	1.32754	-0.14895	-1.55153	0.98176	-0.00386	1.40496	0.53633	0.01523	0.72365
0.32745	-2.66877	1.33107	-0.15110	-1.54989	0.97898	-0.00381	1.39218	0.53609	0.01552	0.72319
0.33517	-2.73081	1.33399	-0.15335	-1.54578	0.97497	-0.00377	1.36773	0.53646	0.01561	0.72416
0.34304	-2.81200	1.33562	-0.15566	-1.53713	0.96885	-0.00374	1.32726	0.53775	0.01539	0.72718
0.35112	-2.89731	1.33692	-0.15820	-1.52766	0.96249	-0.00370	1.28669	0.53883	0.01498	0.73138
0.35938	-2.97866	1.33819	-0.16104	-1.51935	0.95657	-0.00367	1.25215	0.53923	0.01432	0.73725
0.36784	-3.05060	1.34015	-0.16421	-1.51410	0.95193	-0.00364	1.22849	0.53857	0.01341	0.74487
0.37649	-3.12454	1.34210	-0.16744	-1.50888	0.94696	-0.00361	1.20608	0.53757	0.01226	0.75411
0.38536	-3.19935	1.34369	-0.17086	-1.50348	0.94171	-0.00359	1.18554	0.53614	0.01096	0.76445
0.39442	-3.27334	1.34567	-0.17450	-1.49909	0.93619	-0.00356	1.16877	0.53424	0.00975	0.77436
0.40370	-3.34456	1.34808	-0.17834	-1.49585	0.93315	-0.00354	1.16018	0.53136	0.00861	0.78395
0.41321	-3.40404	1.35070	-0.18270	-1.49533	0.93336	-0.00352	1.16627	0.52686	0.00760	0.79299
0.42292	-3.45727	1.35314	-0.18741	-1.49603	0.93405	-0.00351	1.18233	0.52119	0.00680	0.80066
0.43288	-3.50942	1.35546	-0.19231	-1.49721	0.93392	-0.00349	1.20475	0.51465	0.00620	0.80699
0.44307	-3.56379	1.35797	-0.19733	-1.49845	0.93439	-0.00348	1.23053	0.50768	0.00590	0.81121
0.45349	-3.61638	1.36041	-0.20251	-1.50016	0.93592	-0.00347	1.26254	0.50008	0.00584	0.81379
0.46417	-3.66962	1.36261	-0.20776	-1.50162	0.93935	-0.00347	1.29931	0.49193	0.00604	0.81460
0.47508	-3.72948	1.36472	-0.21297	-1.50188	0.94248	-0.00347	1.33550	0.48373	0.00652	0.81315
0.48626	-3.79627	1.36681	-0.21818	-1.50095	0.94390	-0.00347	1.36984	0.47565	0.00729	0.80950
0.49771	-3.87071	1.36867	-0.22339	-1.49842	0.94585	-0.00347	1.40074	0.46778	0.00828	0.80425
0.50942	-3.95032	1.37038	-0.22858	-1.49493	0.94698	-0.00347	1.43060	0.45990	0.00949	0.79732
0.52140	-4.03421	1.37209	-0.23372	-1.49072	0.94738	-0.00346	1.46100	0.45190	0.01087	0.78913
0.53367	-4.11945	1.37426	-0.23870	-1.48688	0.94852	-0.00345	1.49474	0.44370	0.01252	0.77890
0.54624	-4.20405	1.37641	-0.24358	-1.48331	0.95009	-0.00344	1.53198	0.43532	0.01435	0.76725
0.55910	-4.28447	1.37843	-0.24840	-1.48055	0.95208	-0.00342	1.57699	0.42644	0.01623	0.75503
0.57225	-4.36174	1.38049	-0.25311	-1.47837	0.95440	-0.00340	1.63104	0.41704	0.01801	0.74314
0.58569	-4.43463	1.38296	-0.25764	-1.47735	0.95845	-0.00339	1.69684	0.40710	0.01972	0.73146
0.59948	-4.50169	1.38560	-0.26207	-1.47765	0.96401	-0.00338	1.77592	0.39662	0.02136	0.72003
0.61357	-4.55989	1.38796	-0.26651	-1.47937	0.97035	-0.00336	1.87058	0.38558	0.02288	0.70954
0.62802	-4.61223	1.39016	-0.27093	-1.48198	0.97697	-0.00334	1.97952	0.37417	0.02422	0.70035
0.64280	-4.66254	1.39276	-0.27515	-1.48520	0.98461	-0.00332	2.09988	0.36273	0.02542	0.69212
0.65794	-4.71318	1.39601	-0.27914	-1.48884	0.99315	-0.00330	2.22984	0.35144	0.02653	0.68455
0.67340	-4.76513	1.39961	-0.28292	-1.49238	1.00191	-0.00329	2.36544	0.34052	0.02755	0.67777
0.68927	-4.81781	1.40321	-0.28661	-1.49565	1.01069	-0.00328	2.50582	0.32995	0.02851	0.67177
0.70547	-4.87040	1.40670	-0.29023	-1.49868	1.01922	-0.00327	2.65003	0.31980	0.02938	0.66656
0.72207	-4.92503	1.41039	-0.29371	-1.50136	1.02731	-0.00325	2.79761	0.31006	0.03015	0.66193
0.73910	-4.98401	1.41464	-0.29700	-1.50354	1.03477	-0.00324	2.94667	0.30077	0.03083	0.65753
0.75649	-5.04745	1.41948	-0.30008	-1.50518	1.04143	-0.00323	3.09557	0.29200	0.03143	0.65307
0.77429	-5.11403	1.42465	-0.30304	-1.50636	1.04734	-0.00321	3.24387	0.28371	0.03196	0.64821
0.79246	-5.18176	1.42978	-0.30596	-1.50711	1.05255	-0.00320	3.39006	0.27592	0.03244	0.64273
0.81116	-5.25162	1.43483	-0.30889	-1.50732	1.05705	-0.00318	3.53292	0.26861	0.03288	0.63673
0.83022	-5.32439	1.43997	-0.31174	-1.50689	1.06075	-0.00317	3.66874	0.26187	0.03325	0.63059
0.84976	-5.40253	1.44560	-0.31446	-1.50575	1.06359	-0.00315	3.79653	0.25567	0.03353	0.62461
0.86972	-5.48654	1.45189	-0.31702	-1.50391	1.06559	-0.00314	3.91508	0.25002	0.03372	0.61918
0.89023	-5.57641	1.45882	-0.31944	-1.50143	1.06684	-0.00312	4.02470	0.24486	0.03383	0.61467
0.91116	-5.66955	1.46604	-0.32179	-1.49844	1.06751	-0.00310	4.12499	0.24018	0.03387	0.61148
0.93257	-5.76470	1.47327	-0.32413	-1.49501	1.06769	-0.00309	4.21617	0.23593	0.03386	0.60958
0.95456	-5.86157	1.48040	-0.32649	-1.49113	1.06747	-0.00307	4.29823	0.23207	0.03382	0.60890
0.97704	-5.96040	1.48751	-0.32884	-1.48683	1.06683	-0.00306	4.37041	0.22860	0.03374	0.60935
1.00000	-6.06219	1.49491	-0.33111	-1.48214	1.06581	-0.00304	4.43330	0.22550	0.03362	0.61085
1.02354	-6.16812	1.50287	-0.33324	-1.47714	1.06443	-0.00303	4.48828	0.22271	0.03345	0.61330
1.04767	-6.27831	1.51149	-0.33522	-1.47189	1.06273	-0.00301	4.53634	0.22021	0.03322	0.61655
1.07227	-6.39162	1.52065	-0.33704	-1.46645	1.06076	-0.00300	4.57784	0.21799	0.03296	0.62043
1.09745	-6.50729	1.53010	-0.33876	-1.46081	1.05856	-0.00299	4.61311	0.21600	0.03268	0.62480
1.12334	-6.62437	1.53964	-0.34044	-1.45502	1.05620	-0.00297	4.64275	0.21422	0.03240	0.62956
1.14982	-6.74126	1.54903	-0.34211	-1.44916	1.05375	-0.00296	4.66689	0.21266	0.03211	0.63458
1.17675	-6.85715	1.55821	-0.34375	-1.44329	1.05127	-0.00295	4.68558	0.21131	0.03184	0.63971
1.20453	-6.97436	1.56746	-0.34537	-1.43735	1.04872	-0.00294	4.69922	0.21015	0.03156	0.64490
1.23289	-7.09252	1.57690	-0.34689	-1.43142	1.04612	-0.00292	4.70813	0.20920	0.03128	0.64996
1.26183	-7.21262	1.58673	-0.34828	-1.42547	1.04344	-0.00291	4.71240	0.20843	0.03098	0.65488
1.29149	-7.33575	1.59712	-0.34950	-1.41947	1.04065	-0.00290	4.71244	0.20784	0.03064	0.65975
1.32188	-7.46181	1.60805	-0.35056	-1.41342	1.03776	-0.00289	4.70875	0.20740	0.03028	0.66468
1.35300	-7.59015	1.61940	-0.35148	-1.40736	1.03481	-0.00288	4.70190	0.20710	0.02989	0.66975
1.38485	-7.71980	1.63100	-0.35230	-1.40131	1.03184	-0.00287	4.69219	0.20691	0.02949	0.67509
1.41743	-7.84964	1.64263	-0.35304	-1.39530	1.02891	-0.00285	4.68004	0.20682	0.02906	0.68081
1.45075	-7.97891	1.65413	-0.35375	-1.38933	1.02605	-0.00284	4.66546	0.20683	0.02864	0.68696
1.48500	-8.10796	1.66549	-0.35443	-1.38341	1.02327	-0.00283	4.64852	0.20693	0.02821	0.69356
1.51999	-8.23603	1.67664	-0.35508	-1.37756	1.02058	-0.00282	4.62930	0.20712	0.02778	0.70057
1.55569	-8.36357	1.68768	-0.35567	-1.37177	1.01798	-0.00281	4.60777	0.20739	0.02734	0.70796
1.59236	-8.49202	1.69882	-0.35617	-1.36599	1.01543	-0.00280	4.58401	0.20776	0.02688	0.71579
1.62973	-8.62127	1.71011	-0.35654	-1.36024	1.01290	-0.00280	4.55811	0.20820	0.02641	0.72396
1.66806	-8.75269	1.72173	-0.35676	-1.35447	1.01035	-0.00279	4.53024	0.20872	0.02591	0.73252
1.70736	-8.88654	1.73376	-0.35680	-1.34868	1.00779	-0.00278	4.50074	0.20930	0.02538	0.74147
1.74764	-9.02284	1.74621	-0.35666	-1.34286	1.00521	-0.00277	4.46993	0.20993	0.02482	0.75078
1.78859	-9.16023	1.75891	-0.35634	-1.33708	1.00263	-0.00276	4.43836	0.21059	0.02425	0.76036
1.83083	-9.30029	1.77199	-0.35587	-1.33126	1.00004	-0.00275	4.40589	0.21129	0.02366	0.77033
1.87371	-9.44024	1.78511	-0.35526	-1.32550	0.99752	-0.00274	4.37322	0.21199	0.02307	0.78049
1.91791	-9.58161	1.79838	-0.35454	-1.31976	0.99504	-0.00273	4.34008	0.21272	0.02248	0.79092
1.96309	-9.72270	1.81158	-0.35372	-1.31408	0.99266	-0.00273	4.30682	0.21344	0.02191	0.80140

2.00924	-9.86306	1.82463	-0.35283	-1.30848	0.99039	-0.00272	4.27343	0.21417	0.02135	0.81179
2.05634	-10.00226	1.83748	-0.35187	-1.30301	0.98825	-0.00271	4.24022	0.21491	0.02082	0.82193
2.10482	-10.14140	1.85023	-0.35082	-1.29762	0.98623	-0.00270	4.20696	0.21566	0.02031	0.83175
2.15424	-10.27930	1.86280	-0.34970	-1.29238	0.98436	-0.00270	4.17393	0.21642	0.01983	0.84096
2.20507	-10.41739	1.87534	-0.34849	-1.28723	0.98261	-0.00269	4.14090	0.21719	0.01937	0.84953
2.25683	-10.55465	1.88780	-0.34717	-1.28222	0.98098	-0.00268	4.10820	0.21797	0.01894	0.85745
2.31000	-10.69265	1.90036	-0.34571	-1.27731	0.97943	-0.00267	4.07555	0.21877	0.01851	0.86491
2.36463	-10.83168	1.91308	-0.34412	-1.27248	0.97797	-0.00267	4.04297	0.21958	0.01809	0.87200
2.42014	-10.97056	1.92587	-0.34239	-1.26777	0.97658	-0.00266	4.01081	0.22041	0.01768	0.87880
2.47709	-11.11074	1.93890	-0.34048	-1.26314	0.97524	-0.00265	3.97886	0.22124	0.01726	0.88554
2.53550	-11.25228	1.95216	-0.33842	-1.25858	0.97394	-0.00265	3.94711	0.22208	0.01683	0.89238
2.59471	-11.39363	1.96553	-0.33623	-1.25412	0.97269	-0.00264	3.91592	0.22291	0.01641	0.89939
2.65604	-11.53769	1.97924	-0.33384	-1.24970	0.97148	-0.00263	3.88479	0.22376	0.01597	0.90679
2.71887	-11.68270	1.99315	-0.33131	-1.24533	0.97030	-0.00262	3.85403	0.22461	0.01553	0.91454
2.78242	-11.82677	2.00705	-0.32867	-1.24110	0.96918	-0.00262	3.82403	0.22544	0.01509	0.92262
2.84819	-11.97279	2.02117	-0.32585	-1.23695	0.96812	-0.00261	3.79427	0.22629	0.01464	0.93130
2.91545	-12.11901	2.03538	-0.32296	-1.23283	0.96709	-0.00260	3.76493	0.22713	0.01419	0.94050
2.98329	-12.26298	2.04934	-0.31995	-1.22895	0.96618	-0.00259	3.73667	0.22796	0.01375	0.95002
3.05344	-12.40826	2.06345	-0.31687	-1.22506	0.96530	-0.00259	3.70855	0.22878	0.01331	0.95983
3.12598	-12.55461	2.07763	-0.31361	-1.22132	0.96452	-0.00258	3.68079	0.22962	0.01288	0.96977
3.19898	-12.69781	2.09146	-0.31037	-1.21769	0.96381	-0.00257	3.65406	0.23042	0.01248	0.97923
3.27439	-12.84184	2.10533	-0.30699	-1.21420	0.96320	-0.00256	3.62767	0.23124	0.01209	0.98825
3.35121	-12.98415	2.11896	-0.30359	-1.21079	0.96265	-0.00255	3.60202	0.23204	0.01172	0.99649
3.43053	-13.12718	2.13261	-0.30004	-1.20754	0.96221	-0.00255	3.57673	0.23285	0.01137	1.00436
3.51124	-13.26824	2.14600	-0.29652	-1.20434	0.96182	-0.00254	3.55217	0.23362	0.01104	1.01193
3.59324	-13.40767	2.15917	-0.29285	-1.20142	0.96156	-0.00253	3.52846	0.23442	0.01071	1.01962
3.67782	-13.54749	2.17237	-0.28924	-1.19837	0.96129	-0.00252	3.50484	0.23517	0.01040	1.02777
3.76506	-13.68726	2.18540	-0.28531	-1.19573	0.96121	-0.00251	3.48215	0.23597	0.01007	1.03694
3.85356	-13.82614	2.19850	-0.28162	-1.19282	0.96103	-0.00250	3.45937	0.23670	0.00977	1.04669
3.94477	-13.96398	2.21121	-0.27753	-1.19045	0.96109	-0.00250	3.43803	0.23749	0.00945	1.05724
4.03714	-14.10179	2.22418	-0.27364	-1.18781	0.96102	-0.00249	3.41628	0.23822	0.00915	1.06788
4.13223	-14.23824	2.23678	-0.26958	-1.18545	0.96109	-0.00248	3.39577	0.23896	0.00886	1.07868
4.23012	-14.37613	2.24956	-0.26525	-1.18332	0.96125	-0.00247	3.37549	0.23974	0.00857	1.08929
4.32900	-14.51262	2.26240	-0.26131	-1.18076	0.96121	-0.00246	3.35496	0.24040	0.00832	1.09897
4.43066	-14.64703	2.27460	-0.25675	-1.17905	0.96154	-0.00245	3.33666	0.24119	0.00804	1.10825
4.53515	-14.78505	2.28762	-0.25243	-1.17684	0.96163	-0.00244	3.31699	0.24190	0.00779	1.11674
4.64253	-14.92137	2.30029	-0.24816	-1.17466	0.96175	-0.00243	3.29822	0.24257	0.00755	1.12460
4.75059	-15.05421	2.31234	-0.24328	-1.17338	0.96220	-0.00242	3.28158	0.24337	0.00729	1.13200
4.86145	-15.19125	2.32545	-0.23899	-1.17117	0.96223	-0.00241	3.26283	0.24401	0.00708	1.13858
4.97760	-15.32727	2.33797	-0.23442	-1.16934	0.96247	-0.00240	3.24567	0.24468	0.00685	1.14493
5.09424	-15.46017	2.34998	-0.22920	-1.16841	0.96303	-0.00239	3.23043	0.24550	0.00660	1.15101
5.21376	-15.59809	2.36329	-0.22477	-1.16630	0.96305	-0.00238	3.21256	0.24611	0.00640	1.15635
5.33618	-15.73099	2.37557	-0.22025	-1.16458	0.96327	-0.00237	3.19676	0.24671	0.00620	1.16153
5.46150	-15.86149	2.38711	-0.21471	-1.16413	0.96400	-0.00236	3.18358	0.24756	0.00593	1.16695
5.58971	-15.99846	2.40025	-0.20992	-1.16247	0.96416	-0.00235	3.16743	0.24819	0.00573	1.17191
5.72082	-16.13280	2.41307	-0.20572	-1.16033	0.96414	-0.00234	3.15148	0.24864	0.00556	1.17675
5.85823	-16.26209	2.42414	-0.19997	-1.16023	0.96501	-0.00233	3.14010	0.24949	0.00529	1.18252
5.99520	-16.39424	2.43630	-0.19451	-1.15960	0.96557	-0.00232	3.12717	0.25024	0.00505	1.18814
6.13497	-16.53081	2.44980	-0.19034	-1.15733	0.96541	-0.00231	3.11131	0.25063	0.00490	1.19333
6.28141	-16.65968	2.46127	-0.18553	-1.15626	0.96583	-0.00229	3.09925	0.25118	0.00469	1.19919
6.42674	-16.78131	2.47140	-0.17945	-1.15694	0.96693	-0.00229	3.09067	0.25209	0.00441	1.20559
6.57895	-16.91497	2.48391	-0.17407	-1.15619	0.96738	-0.00227	3.07848	0.25274	0.00419	1.21183
6.73401	-17.05200	2.49757	-0.17019	-1.15367	0.96706	-0.00226	3.06359	0.25296	0.00406	1.21758
6.89180	-17.17289	2.50783	-0.16533	-1.15318	0.96767	-0.00225	3.05445	0.25350	0.00385	1.22405
7.05716	-17.29344	2.51733	-0.15875	-1.15453	0.96906	-0.00224	3.04802	0.25449	0.00354	1.23135
7.22022	-17.41953	2.52879	-0.15331	-1.15431	0.96969	-0.00223	3.03859	0.25512	0.00332	1.23783
7.39098	-17.55629	2.54253	-0.14938	-1.15196	0.96939	-0.00222	3.02578	0.25524	0.00321	1.24356
7.56430	-17.67861	2.55349	-0.14550	-1.15044	0.96951	-0.00220	3.01647	0.25541	0.00307	1.24922
7.73994	-17.78491	2.56074	-0.13905	-1.15253	0.97118	-0.00220	3.01304	0.25645	0.00276	1.25566
7.92393	-17.90478	2.57058	-0.13286	-1.15355	0.97236	-0.00219	3.00717	0.25726	0.00249	1.26145
8.11030	-18.03242	2.58245	-0.12784	-1.15292	0.97278	-0.00217	2.99891	0.25766	0.00231	1.26621
8.29876	-18.16591	2.59616	-0.12492	-1.14985	0.97212	-0.00216	2.98868	0.25730	0.00228	1.26969
8.49618	-18.27852	2.60508	-0.12071	-1.14942	0.97268	-0.00215	2.98340	0.25757	0.00211	1.27388
8.69565	-18.37657	2.61064	-0.11371	-1.15263	0.97481	-0.00214	2.98196	0.25887	0.00175	1.27912
8.90472	-18.49282	2.61984	-0.10759	-1.15389	0.97607	-0.00213	2.97798	0.25962	0.00149	1.28365
9.11577	-18.61386	2.63043	-0.10232	-1.15401	0.97679	-0.00212	2.97303	0.26003	0.00130	1.28768
9.32836	-18.74822	2.64443	-0.09935	-1.15110	0.97611	-0.00210	2.96656	0.25944	0.00128	1.29062
9.54198	-18.86448	2.65515	-0.09706	-1.14859	0.97566	-0.00209	2.96356	0.25875	0.00127	1.29378
9.76563	-18.94982	2.65849	-0.09064	-1.15208	0.97787	-0.00209	2.96162	0.26021	0.00091	1.29965
10.00000	-19.04793	2.66407	-0.08356	-1.15542	0.98005	-0.00208	2.96051	0.26151	0.00055	1.30614

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Low stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 30 - 61 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.87641	3.36651	-0.04323	-1.64319	1.00829	-0.00104	1.01845	0.47115	-0.00879	0.28401
PGV	3.76685	1.77845	-0.03093	-2.75858	1.47510	-0.00149	7.71991	0.32145	-0.02178	0.51855
PGA	-0.04765	1.41967	-0.06864	-2.28430	0.92393	-0.00238	2.97492	0.49346	-0.02525	0.73206
0.01000	0.61774	1.44098	-0.06354	-2.42360	0.92486	-0.00220	3.54870	0.47942	-0.01043	0.71950
0.01024	0.65673	1.44316	-0.06283	-2.43234	0.92239	-0.00218	3.57404	0.47945	-0.01054	0.72069
0.01048	0.70003	1.44537	-0.06211	-2.44189	0.92000	-0.00216	3.60333	0.47935	-0.01067	0.72192
0.01072	0.74597	1.44759	-0.06138	-2.45192	0.91760	-0.00214	3.63476	0.47920	-0.01081	0.72322
0.01097	0.79312	1.44980	-0.06064	-2.46214	0.91513	-0.00212	3.66678	0.47903	-0.01097	0.72456
0.01123	0.84279	1.45204	-0.05991	-2.47283	0.91269	-0.00210	3.70086	0.47881	-0.01113	0.72590
0.01150	0.89803	1.45433	-0.05920	-2.48460	0.91047	-0.00208	3.74056	0.47842	-0.01129	0.72718
0.01177	0.95842	1.45668	-0.05848	-2.49735	0.90838	-0.00205	3.78545	0.47790	-0.01145	0.72840
0.01205	1.02225	1.45907	-0.05776	-2.51075	0.90632	-0.00203	3.83369	0.47729	-0.01162	0.72970
0.01233	1.08865	1.46148	-0.05703	-2.52459	0.90423	-0.00200	3.88451	0.47663	-0.01181	0.73116
0.01262	1.15494	1.46387	-0.05630	-2.53834	0.90191	-0.00198	3.93496	0.47600	-0.01202	0.73268
0.01292	1.21788	1.46622	-0.05556	-2.55135	0.89916	-0.00195	3.98106	0.47552	-0.01223	0.73418
0.01322	1.27522	1.46851	-0.05476	-2.56323	0.89589	-0.00193	4.01973	0.47528	-0.01244	0.73567
0.01353	1.32781	1.47078	-0.05390	-2.57415	0.89225	-0.00191	4.05180	0.47525	-0.01265	0.73716
0.01385	1.37919	1.47303	-0.05303	-2.58478	0.88842	-0.00188	4.08176	0.47529	-0.01285	0.73861
0.01417	1.43124	1.47526	-0.05216	-2.59547	0.88442	-0.00186	4.11181	0.47534	-0.01306	0.74007
0.01451	1.48417	1.47747	-0.05130	-2.60622	0.88020	-0.00184	4.14220	0.47539	-0.01326	0.74159
0.01485	1.53737	1.47963	-0.05046	-2.61688	0.87566	-0.00181	4.17256	0.47547	-0.01348	0.74315
0.01520	1.58834	1.48175	-0.04965	-2.62697	0.87074	-0.00179	4.20022	0.47563	-0.01370	0.74483
0.01556	1.64085	1.48389	-0.04884	-2.63731	0.86587	-0.00177	4.22955	0.47575	-0.01394	0.74672
0.01592	1.69939	1.48610	-0.04806	-2.64880	0.86114	-0.00175	4.26528	0.47571	-0.01420	0.74881
0.01630	1.75880	1.48834	-0.04730	-2.66042	0.85634	-0.00172	4.30112	0.47568	-0.01447	0.75106
0.01668	1.80921	1.49052	-0.04648	-2.67032	0.85111	-0.00170	4.32505	0.47598	-0.01476	0.75348
0.01707	1.84486	1.49263	-0.04556	-2.67742	0.84522	-0.00168	4.32977	0.47679	-0.01503	0.75587
0.01748	1.87169	1.49468	-0.04459	-2.68284	0.83888	-0.00166	4.32330	0.47791	-0.01526	0.75798
0.01789	1.90598	1.49674	-0.04365	-2.68955	0.83255	-0.00164	4.32612	0.47879	-0.01544	0.75984
0.01831	1.95459	1.49889	-0.04279	-2.69881	0.82646	-0.00162	4.34619	0.47923	-0.01559	0.76158
0.01874	2.00544	1.50106	-0.04197	-2.70838	0.82038	-0.00160	4.36866	0.47962	-0.01572	0.76316
0.01918	2.04632	1.50310	-0.04116	-2.71593	0.81391	-0.00158	4.37957	0.48031	-0.01582	0.76457
0.01963	2.07540	1.50494	-0.04036	-2.72105	0.80675	-0.00157	4.37750	0.48133	-0.01594	0.76617
0.02009	2.09985	1.50670	-0.03963	-2.72515	0.79943	-0.00155	4.37084	0.48245	-0.01610	0.76808
0.02057	2.11993	1.50843	-0.03893	-2.72841	0.79235	-0.00154	4.35870	0.48371	-0.01626	0.77000
0.02105	2.12445	1.51005	-0.03813	-2.72875	0.78497	-0.00153	4.32753	0.48547	-0.01639	0.77162
0.02154	2.12233	1.51159	-0.03723	-2.72772	0.77732	-0.00153	4.28906	0.48744	-0.01648	0.77302
0.02205	2.12755	1.51308	-0.03633	-2.72783	0.76962	-0.00152	4.26116	0.48913	-0.01656	0.77431
0.02257	2.13860	1.51456	-0.03551	-2.72888	0.76176	-0.00151	4.24156	0.49061	-0.01662	0.77546
0.02310	2.15224	1.51615	-0.03476	-2.73052	0.75405	-0.00150	4.22475	0.49202	-0.01664	0.77629
0.02364	2.16234	1.51776	-0.03399	-2.73149	0.74655	-0.00149	4.20460	0.49351	-0.01664	0.77697
0.02420	2.16200	1.51909	-0.03315	-2.73012	0.73856	-0.00149	4.17555	0.49524	-0.01664	0.77771
0.02477	2.15941	1.52023	-0.03238	-2.72803	0.73001	-0.00149	4.14593	0.49698	-0.01658	0.77814
0.02535	2.17339	1.52164	-0.03181	-2.72922	0.72214	-0.00148	4.13396	0.49823	-0.01640	0.77782
0.02595	2.20533	1.52346	-0.03132	-2.73406	0.71549	-0.00147	4.14045	0.49899	-0.01612	0.77689
0.02656	2.22867	1.52530	-0.03072	-2.73722	0.70883	-0.00147	4.13741	0.50003	-0.01587	0.77606
0.02719	2.21222	1.52673	-0.02999	-2.73262	0.70069	-0.00147	4.09196	0.50226	-0.01569	0.77573
0.02783	2.15221	1.52761	-0.02923	-2.71957	0.69139	-0.00148	4.00147	0.50575	-0.01554	0.77565
0.02848	2.06981	1.52802	-0.02850	-2.70195	0.68182	-0.00151	3.89065	0.50984	-0.01537	0.77555
0.02915	1.98549	1.52814	-0.02786	-2.68357	0.67170	-0.00153	3.78105	0.51398	-0.01517	0.77542
0.02984	1.90504	1.52829	-0.02726	-2.66586	0.66062	-0.00155	3.67621	0.51812	-0.01500	0.77552
0.03054	1.82692	1.52866	-0.02655	-2.64881	0.64886	-0.00156	3.57355	0.52235	-0.01489	0.77608
0.03126	1.75849	1.52938	-0.02564	-2.63386	0.63794	-0.00158	3.48253	0.52633	-0.01485	0.77717
0.03199	1.70088	1.53032	-0.02460	-2.62103	0.62905	-0.00159	3.40631	0.52986	-0.01484	0.77865
0.03275	1.64331	1.53111	-0.02367	-2.60803	0.62199	-0.00162	3.33353	0.53324	-0.01482	0.78008
0.03352	1.57803	1.53149	-0.02294	-2.59330	0.61637	-0.00165	3.25512	0.53675	-0.01478	0.78147
0.03430	1.50696	1.53146	-0.02230	-2.57714	0.61123	-0.00168	3.17349	0.54037	-0.01478	0.78311
0.03511	1.43229	1.53123	-0.02167	-2.55997	0.60448	-0.00171	3.09106	0.54413	-0.01476	0.78461
0.03594	1.35124	1.53098	-0.02108	-2.54148	0.59490	-0.00174	3.00437	0.54824	-0.01468	0.78579
0.03678	1.25768	1.53045	-0.02051	-2.52047	0.58301	-0.00176	2.90853	0.55282	-0.01456	0.78675
0.03765	1.15610	1.52926	-0.02004	-2.49751	0.57058	-0.00178	2.80939	0.55755	-0.01440	0.78736
0.03854	1.07050	1.52760	-0.01983	-2.47723	0.56095	-0.00181	2.72829	0.56143	-0.01416	0.78749
0.03944	1.01483	1.52600	-0.01987	-2.46259	0.55608	-0.00183	2.67581	0.56397	-0.01384	0.78706
0.04037	0.97587	1.52485	-0.01985	-2.45115	0.55440	-0.00187	2.63900	0.56588	-0.01351	0.78650
0.04132	0.93700	1.52441	-0.01953	-2.43991	0.55294	-0.00191	2.60217	0.56803	-0.01319	0.78583
0.04229	0.88842	1.52465	-0.01896	-2.42714	0.54938	-0.00195	2.55605	0.57088	-0.01278	0.78445
0.04329	0.81290	1.52477	-0.01831	-2.40915	0.54229	-0.00198	2.48694	0.57500	-0.01228	0.78251
0.04431	0.70076	1.52396	-0.01776	-2.38357	0.53178	-0.00202	2.38966	0.58058	-0.01176	0.78036
0.04535	0.56865	1.52234	-0.01746	-2.35371	0.52026	-0.00206	2.28047	0.58683	-0.01124	0.77821

0.04642	0.44583	1.52044	-0.01742	-2.32563	0.51081	-0.00210	2.18323	0.59249	-0.01072	0.77599
0.04751	0.35891	1.51886	-0.01759	-2.30494	0.50598	-0.00214	2.11686	0.59640	-0.01018	0.77334
0.04863	0.32156	1.51791	-0.01790	-2.29446	0.50668	-0.00218	2.08926	0.59798	-0.00956	0.77018
0.04977	0.31505	1.51729	-0.01818	-2.29034	0.51072	-0.00221	2.08493	0.59810	-0.00888	0.76661
0.05094	0.29559	1.51639	-0.01821	-2.28363	0.51433	-0.00224	2.07136	0.59872	-0.00829	0.76361
0.05214	0.23273	1.51478	-0.01792	-2.26794	0.51479	-0.00229	2.02717	0.60121	-0.00800	0.76254
0.05337	0.12412	1.51228	-0.01739	-2.24243	0.51091	-0.00234	1.95121	0.60583	-0.00800	0.76341
0.05462	-0.01579	1.50895	-0.01677	-2.20996	0.50285	-0.00239	1.85336	0.61219	-0.00818	0.76538
0.05591	-0.16071	1.50526	-0.01621	-2.17618	0.49319	-0.00244	1.75291	0.61910	-0.00838	0.76753
0.05722	-0.28592	1.50174	-0.01578	-2.14647	0.48628	-0.00248	1.66835	0.62512	-0.00840	0.76869
0.05857	-0.38383	1.49878	-0.01553	-2.12293	0.48506	-0.00253	1.60473	0.62961	-0.00811	0.76802
0.05995	-0.45531	1.49658	-0.01551	-2.10560	0.48956	-0.00259	1.56122	0.63245	-0.00755	0.76592
0.06136	-0.50375	1.49461	-0.01576	-2.09301	0.49787	-0.00264	1.53616	0.63372	-0.00696	0.76379
0.06280	-0.54204	1.49198	-0.01630	-2.08148	0.50709	-0.00270	1.52070	0.63410	-0.00654	0.76279
0.06428	-0.59037	1.48824	-0.01698	-2.06675	0.51381	-0.00275	1.49950	0.63492	-0.00624	0.76250
0.06579	-0.66091	1.48373	-0.01768	-2.04720	0.51596	-0.00280	1.46203	0.63717	-0.00583	0.76148
0.06734	-0.75126	1.47888	-0.01837	-2.02411	0.51416	-0.00283	1.40887	0.64085	-0.00521	0.75900
0.06893	-0.85322	1.47365	-0.01906	-1.99902	0.51121	-0.00287	1.34728	0.64534	-0.00445	0.75568
0.07055	-0.95632	1.46814	-0.01974	-1.97350	0.51001	-0.00290	1.28743	0.64980	-0.00367	0.75230
0.07221	-1.04838	1.46310	-0.02036	-1.94999	0.51235	-0.00295	1.23898	0.65343	-0.00292	0.74894
0.07391	-1.12110	1.45959	-0.02080	-1.93092	0.51933	-0.00301	1.20652	0.65582	-0.00220	0.74528
0.07565	-1.17685	1.45818	-0.02091	-1.91672	0.53022	-0.00308	1.18581	0.65740	-0.00156	0.74164
0.07743	-1.22502	1.45853	-0.02062	-1.90585	0.54230	-0.00314	1.16803	0.65898	-0.00113	0.73881
0.07925	-1.27377	1.45954	-0.02001	-1.89605	0.55275	-0.00320	1.14728	0.66100	-0.00086	0.73672
0.08111	-1.32432	1.45977	-0.01946	-1.88565	0.56011	-0.00324	1.12389	0.66319	-0.00056	0.73433
0.08302	-1.37092	1.45824	-0.01943	-1.87462	0.56488	-0.00327	1.10244	0.66487	-0.00007	0.73095
0.08498	-1.40960	1.45476	-0.02013	-1.86346	0.56911	-0.00330	1.08595	0.66559	0.00051	0.72729
0.08697	-1.44011	1.44982	-0.02152	-1.85264	0.57551	-0.00333	1.07506	0.66525	0.00099	0.72480
0.08902	-1.46347	1.44422	-0.02342	-1.84272	0.58549	-0.00337	1.06915	0.66403	0.00131	0.72394
0.09112	-1.48475	1.43830	-0.02560	-1.83301	0.59734	-0.00341	1.06431	0.66253	0.00147	0.72457
0.09326	-1.51472	1.43183	-0.02778	-1.82111	0.60781	-0.00345	1.05291	0.66180	0.00142	0.72691
0.09545	-1.56431	1.42462	-0.02972	-1.80469	0.61516	-0.00349	1.02805	0.66272	0.00111	0.73123
0.09770	-1.63459	1.41674	-0.03127	-1.78359	0.61980	-0.00352	0.99009	0.66539	0.00048	0.73788
0.10000	-1.71361	1.40851	-0.03245	-1.76028	0.62301	-0.00356	0.94769	0.66887	-0.00052	0.74715
0.10235	-1.78443	1.40076	-0.03342	-1.73883	0.62579	-0.00359	0.91164	0.67184	-0.00173	0.75790
0.10476	-1.84188	1.39438	-0.03432	-1.72121	0.62776	-0.00361	0.88514	0.67388	-0.00284	0.76777
0.10723	-1.89699	1.38948	-0.03524	-1.70560	0.62743	-0.00362	0.86162	0.67585	-0.00352	0.77465
0.10975	-1.96406	1.38566	-0.03613	-1.68903	0.62416	-0.00362	0.83261	0.67887	-0.00363	0.77771
0.11233	-2.04724	1.38241	-0.03699	-1.67024	0.61884	-0.00363	0.79575	0.68331	-0.00326	0.77736
0.11498	-2.13708	1.37914	-0.03792	-1.65031	0.61299	-0.00363	0.75625	0.68837	-0.00262	0.77489
0.11768	-2.21796	1.37536	-0.03918	-1.63146	0.60788	-0.00363	0.72176	0.69278	-0.00194	0.77183
0.12045	-2.28167	1.37091	-0.04099	-1.61499	0.60384	-0.00363	0.69537	0.69591	-0.00122	0.76846
0.12328	-2.33094	1.36581	-0.04340	-1.60048	0.60077	-0.00362	0.67499	0.69799	-0.00036	0.76411
0.12619	-2.37382	1.35992	-0.04625	-1.58633	0.59900	-0.00362	0.65677	0.69959	0.00057	0.75917
0.12916	-2.41809	1.35305	-0.04931	-1.57089	0.59939	-0.00362	0.63757	0.70117	0.00135	0.75488
0.13219	-2.46636	1.34538	-0.05239	-1.55390	0.60303	-0.00364	0.61687	0.70284	0.00191	0.75165
0.13531	-2.51439	1.33769	-0.05547	-1.53697	0.61057	-0.00368	0.59715	0.70421	0.00229	0.74915
0.13849	-2.55429	1.33071	-0.05862	-1.52241	0.62131	-0.00372	0.58209	0.70467	0.00252	0.74736
0.14175	-2.57901	1.32478	-0.06189	-1.51198	0.63348	-0.00376	0.57468	0.70361	0.00258	0.74661
0.14508	-2.58625	1.31989	-0.06526	-1.50622	0.64502	-0.00379	0.57579	0.70086	0.00250	0.74657
0.14850	-2.57942	1.31595	-0.06862	-1.50446	0.65435	-0.00380	0.58403	0.69675	0.00247	0.74613
0.15199	-2.56346	1.31274	-0.07191	-1.50547	0.66111	-0.00379	0.59758	0.69173	0.00263	0.74441
0.15557	-2.54162	1.30994	-0.07516	-1.50814	0.66595	-0.00377	0.61508	0.68610	0.00294	0.74176
0.15923	-2.51175	1.30733	-0.07850	-1.51251	0.67048	-0.00375	0.63801	0.67960	0.00329	0.73911
0.16298	-2.47366	1.30509	-0.08186	-1.51874	0.67609	-0.00372	0.66687	0.67228	0.00356	0.73738
0.16681	-2.43029	1.30354	-0.08512	-1.52659	0.68323	-0.00369	0.70060	0.66453	0.00369	0.73713
0.17074	-2.38643	1.30296	-0.08808	-1.53551	0.69126	-0.00367	0.73716	0.65684	0.00361	0.73864
0.17475	-2.34839	1.30366	-0.09059	-1.54472	0.69919	-0.00364	0.77335	0.64978	0.00334	0.74154
0.17887	-2.32219	1.30568	-0.09263	-1.55328	0.70646	-0.00361	0.80532	0.64384	0.00302	0.74476
0.18307	-2.30882	1.30854	-0.09439	-1.56072	0.71376	-0.00358	0.83174	0.63891	0.00280	0.74727
0.18738	-2.30642	1.31135	-0.09622	-1.56656	0.72222	-0.00356	0.85336	0.63449	0.00272	0.74853
0.19179	-2.31585	1.31333	-0.09828	-1.56976	0.73203	-0.00356	0.86916	0.63049	0.00279	0.74864
0.19631	-2.33863	1.31410	-0.10059	-1.56953	0.74256	-0.00356	0.87750	0.62706	0.00297	0.74776
0.20092	-2.37076	1.31373	-0.10327	-1.56657	0.75342	-0.00357	0.88085	0.62388	0.00335	0.74551
0.20565	-2.40893	1.31250	-0.10635	-1.56173	0.76393	-0.00359	0.88116	0.62078	0.00396	0.74167
0.21049	-2.44967	1.31071	-0.10985	-1.55599	0.77320	-0.00360	0.88020	0.61763	0.00478	0.73664
0.21544	-2.48676	1.30856	-0.11379	-1.55077	0.78078	-0.00360	0.88162	0.61402	0.00574	0.73084
0.22051	-2.51853	1.30613	-0.11821	-1.54634	0.78622	-0.00359	0.88680	0.60982	0.00680	0.72442
0.22570	-2.54938	1.30351	-0.12305	-1.54182	0.78952	-0.00356	0.89308	0.60547	0.00791	0.71784
0.23101	-2.58322	1.30098	-0.12805	-1.53660	0.79141	-0.00354	0.89762	0.60148	0.00887	0.71218
0.23645	-2.61801	1.29878	-0.13299	-1.53127	0.79321	-0.00351	0.90180	0.59772	0.00950	0.70880
0.24201	-2.65285	1.29681	-0.13767	-1.52594	0.79551	-0.00349	0.90595	0.59415	0.00965	0.70865
0.24771	-2.68804	1.29516	-0.14196	-1.52066	0.79850	-0.00347	0.90961	0.59085	0.00936	0.71159
0.25354	-2.71987	1.29404	-0.14590	-1.51643	0.80228	-0.00345	0.91561	0.58751	0.00884	0.71637
0.25950	-2.74868	1.29368	-0.14955	-1.51340	0.80627	-0.00343	0.92405	0.58415	0.00834	0.72136
0.26561	-2.77859	1.29410	-0.15291	-1.51075	0.80950	-0.00340	0.93189	0.58123	0.00800	0.72549
0.27186	-2.81043	1.29524	-0.15602	-1.50818	0.81170	-0.00338	0.93844	0.57881	0.00782	0.72856
0.27826	-2.84190	1.29697	-0.15890	-1.50597	0.81301	-0.00335	0.94502	0.57673	0.00765	0.73128
0.28480	-2.86807	1.29901	-0.16167	-1.50479	0.81395	-0.00332	0.95503	0.57448	0.00736	0.73450
0.29150	-2.88474	1.30118	-0.16447	-1.50523	0.81512	-0.00328	0.97203	0.57158	0.00692	0.73841
0.29836	-2.89233	1.30330	-0.16740	-1.50702	0.81678	-0.00325	0.99592	0.56801	0.00641	0.74251

0.30539	-2.89317	1.30533	-0.17045	-1.50966	0.81913	-0.00322	1.02538	0.56396	0.00594	0.74624
0.31257	-2.89011	1.30708	-0.17362	-1.51235	0.82215	-0.00319	1.05847	0.55964	0.00553	0.74948
0.31993	-2.88547	1.30841	-0.17695	-1.51447	0.82571	-0.00316	1.09395	0.55519	0.00521	0.75226
0.32745	-2.87777	1.30949	-0.18037	-1.51649	0.83005	-0.00314	1.13361	0.55046	0.00496	0.75465
0.33517	-2.86253	1.31057	-0.18382	-1.51964	0.83582	-0.00312	1.18096	0.54520	0.00474	0.75705
0.34304	-2.83959	1.31186	-0.18719	-1.52427	0.84323	-0.00310	1.23633	0.53952	0.00450	0.75971
0.35112	-2.81153	1.31352	-0.19042	-1.53009	0.85215	-0.00309	1.29772	0.53368	0.00425	0.76264
0.35938	-2.77955	1.31559	-0.19347	-1.53709	0.86223	-0.00307	1.36350	0.52790	0.00397	0.76574
0.36784	-2.74528	1.31826	-0.19634	-1.54523	0.87301	-0.00306	1.43258	0.52226	0.00373	0.76853
0.37649	-2.71268	1.32144	-0.19901	-1.55378	0.88382	-0.00305	1.50140	0.51697	0.00358	0.77064
0.38536	-2.69348	1.32478	-0.20149	-1.56017	0.89320	-0.00304	1.55776	0.51281	0.00355	0.77171
0.39442	-2.68954	1.32815	-0.20386	-1.56396	0.90071	-0.00304	1.59980	0.50969	0.00366	0.77178
0.40370	-2.69925	1.33161	-0.20616	-1.56559	0.90625	-0.00303	1.62992	0.50729	0.00387	0.77103
0.41321	-2.72328	1.33519	-0.20843	-1.56508	0.90984	-0.00302	1.64684	0.50565	0.00419	0.76956
0.42292	-2.75782	1.33887	-0.21073	-1.56324	0.91216	-0.00302	1.65456	0.50442	0.00463	0.76734
0.43288	-2.80690	1.34229	-0.21308	-1.55893	0.91270	-0.00301	1.64926	0.50370	0.00525	0.76418
0.44307	-2.86968	1.34534	-0.21551	-1.55227	0.91133	-0.00301	1.63120	0.50346	0.00602	0.76031
0.45349	-2.94776	1.34815	-0.21810	-1.54297	0.90809	-0.00300	1.59841	0.50397	0.00675	0.75715
0.46417	-3.04187	1.35055	-0.22083	-1.53071	0.90230	-0.00300	1.55144	0.50518	0.00733	0.75554
0.47508	-3.15769	1.35232	-0.22367	-1.51413	0.89265	-0.00299	1.48554	0.50744	0.00774	0.75553
0.48626	-3.28720	1.35392	-0.22659	-1.49526	0.88024	-0.00298	1.40996	0.51036	0.00804	0.75679
0.49771	-3.42936	1.35533	-0.22965	-1.47427	0.86512	-0.00297	1.32616	0.51401	0.00826	0.75916
0.50942	-3.58335	1.35637	-0.23285	-1.45110	0.84713	-0.00295	1.23644	0.51825	0.00833	0.76309
0.52140	-3.74808	1.35735	-0.23614	-1.42625	0.82670	-0.00293	1.14371	0.52298	0.00822	0.76853
0.53367	-3.91649	1.35873	-0.23954	-1.40169	0.80521	-0.00290	1.05441	0.52780	0.00800	0.77493
0.54624	-4.08540	1.36048	-0.24306	-1.37802	0.78354	-0.00287	0.97063	0.53254	0.00771	0.78189
0.55910	-4.25272	1.36245	-0.24672	-1.35539	0.76189	-0.00285	0.89466	0.53686	0.00735	0.78926
0.57225	-4.41684	1.36487	-0.25046	-1.33431	0.74155	-0.00282	0.82881	0.54026	0.00696	0.79665
0.58569	-4.57498	1.36799	-0.25428	-1.31554	0.72327	-0.00280	0.77500	0.54234	0.00658	0.80372
0.59948	-4.72166	1.37150	-0.25833	-1.29989	0.70722	-0.00277	0.73575	0.54243	0.00628	0.81003
0.61357	-4.85405	1.37519	-0.26266	-1.28770	0.69330	-0.00275	0.71102	0.54029	0.00616	0.81499
0.62802	-4.97685	1.37914	-0.26711	-1.27815	0.68241	-0.00272	0.69791	0.53612	0.00632	0.81786
0.64280	-5.09039	1.38360	-0.27166	-1.27131	0.67502	-0.00270	0.69677	0.52981	0.00672	0.81889
0.65794	-5.19394	1.38854	-0.27630	-1.26721	0.67103	-0.00269	0.70906	0.52114	0.00731	0.81834
0.67340	-5.28540	1.39375	-0.28096	-1.26605	0.67027	-0.00268	0.73640	0.51006	0.00808	0.81636
0.68927	-5.36622	1.39892	-0.28560	-1.26731	0.67178	-0.00267	0.77834	0.49691	0.00900	0.81315
0.70547	-5.43607	1.40381	-0.29016	-1.27068	0.67493	-0.00265	0.83581	0.48194	0.01001	0.80911
0.72207	-5.49879	1.40855	-0.29457	-1.27550	0.67932	-0.00264	0.90911	0.46547	0.01112	0.80400
0.73910	-5.55728	1.41341	-0.29878	-1.28140	0.68490	-0.00263	0.99871	0.44786	0.01239	0.79711
0.75649	-5.61212	1.41846	-0.30280	-1.28828	0.69160	-0.00261	1.10534	0.42948	0.01388	0.78785
0.77429	-5.66407	1.42359	-0.30667	-1.29587	0.69972	-0.00259	1.22892	0.41074	0.01565	0.77581
0.79246	-5.71380	1.42850	-0.31039	-1.30366	0.70916	-0.00258	1.36706	0.39216	0.01762	0.76128
0.81116	-5.76292	1.43310	-0.31402	-1.31123	0.71948	-0.00257	1.51907	0.37390	0.01973	0.74497
0.83022	-5.81046	1.43752	-0.31749	-1.31882	0.73086	-0.00256	1.68431	0.35620	0.02184	0.72804
0.84976	-5.85859	1.44215	-0.32076	-1.32640	0.74308	-0.00255	1.86205	0.33918	0.02384	0.71135
0.86972	-5.91079	1.44718	-0.32373	-1.33337	0.75558	-0.00254	2.04575	0.32322	0.02564	0.69577
0.89023	-5.97093	1.45265	-0.32645	-1.33898	0.76753	-0.00254	2.22793	0.30856	0.02724	0.68174
0.91116	-6.03950	1.45831	-0.32898	-1.34272	0.77804	-0.00254	2.40031	0.29543	0.02862	0.66979
0.93257	-6.11495	1.46391	-0.33141	-1.34476	0.78706	-0.00253	2.56133	0.28366	0.02983	0.65984
0.95456	-6.19533	1.46939	-0.33379	-1.34549	0.79478	-0.00253	2.71232	0.27304	0.03087	0.65174
0.97704	-6.27938	1.47483	-0.33610	-1.34522	0.80142	-0.00253	2.85346	0.26346	0.03176	0.64544
1.00000	-6.36630	1.48049	-0.33830	-1.34438	0.80728	-0.00252	2.98726	0.25476	0.03249	0.64089
1.02354	-6.45736	1.48670	-0.34036	-1.34307	0.81242	-0.00252	3.11400	0.24685	0.03305	0.63794
1.04767	-6.55367	1.49359	-0.34222	-1.34118	0.81679	-0.00251	3.23179	0.23971	0.03346	0.63642
1.07227	-6.65483	1.50107	-0.34389	-1.33867	0.82035	-0.00251	3.33870	0.23335	0.03374	0.63609
1.09745	-6.75997	1.50896	-0.34541	-1.33560	0.82320	-0.00250	3.43534	0.22766	0.03393	0.63670
1.12334	-6.86849	1.51704	-0.34686	-1.33194	0.82535	-0.00250	3.52135	0.22259	0.03407	0.63809
1.14982	-6.97872	1.52507	-0.34825	-1.32778	0.82688	-0.00249	3.59657	0.21808	0.03416	0.64007
1.17675	-7.08946	1.53297	-0.34960	-1.32325	0.82789	-0.00249	3.66125	0.21412	0.03422	0.64246
1.20453	-7.20285	1.54097	-0.35090	-1.31829	0.82845	-0.00248	3.71611	0.21062	0.03426	0.64513
1.23289	-7.31843	1.54918	-0.35209	-1.31302	0.82860	-0.00248	3.76095	0.20759	0.03427	0.64788
1.26183	-7.43673	1.55783	-0.35312	-1.30752	0.82842	-0.00247	3.79668	0.20500	0.03424	0.65067
1.29149	-7.55851	1.56707	-0.35398	-1.30187	0.82799	-0.00247	3.82482	0.20279	0.03417	0.65358
1.32188	-7.68347	1.57694	-0.35466	-1.29615	0.82740	-0.00246	3.84642	0.20092	0.03404	0.65672
1.35300	-7.81065	1.58733	-0.35518	-1.29046	0.82673	-0.00246	3.86302	0.19935	0.03386	0.66016
1.38485	-7.93890	1.59806	-0.35558	-1.28488	0.82604	-0.00245	3.87568	0.19803	0.03365	0.66400
1.41743	-8.06714	1.60893	-0.35589	-1.27944	0.82536	-0.00245	3.88504	0.19696	0.03340	0.66835
1.45075	-8.19440	1.61978	-0.35614	-1.27418	0.82471	-0.00244	3.89161	0.19610	0.03312	0.67324
1.48500	-8.32082	1.63058	-0.35636	-1.26911	0.82415	-0.00244	3.89603	0.19544	0.03283	0.67867
1.51999	-8.44537	1.64125	-0.35654	-1.26433	0.82373	-0.00243	3.89885	0.19497	0.03252	0.68459
1.55569	-8.56823	1.65187	-0.35666	-1.25988	0.82349	-0.00243	3.90061	0.19468	0.03219	0.69097
1.59236	-8.69087	1.66264	-0.35669	-1.25569	0.82342	-0.00242	3.90122	0.19456	0.03182	0.69786
1.62973	-8.81316	1.67361	-0.35660	-1.25177	0.82353	-0.00242	3.90066	0.19460	0.03142	0.70520
1.66806	-8.93655	1.68496	-0.35637	-1.24808	0.82381	-0.00242	3.89897	0.19479	0.03097	0.71304
1.70736	-9.06156	1.69676	-0.35598	-1.24455	0.82421	-0.00241	3.89590	0.19511	0.03048	0.72136
1.74764	-9.18837	1.70901	-0.35543	-1.24115	0.82472	-0.00241	3.89143	0.19554	0.02994	0.73018
1.78859	-9.31594	1.72156	-0.35473	-1.23786	0.82530	-0.00240	3.88545	0.19608	0.02937	0.73938
1.83083	-9.44594	1.73452	-0.35390	-1.23459	0.82593	-0.00240	3.87771	0.19671	0.02876	0.74909
1.87371	-9.57592	1.74757	-0.35296	-1.23137	0.82658	-0.00239	3.86821	0.19741	0.02813	0.75910
1.91791	-9.70739	1.76078	-0.35192	-1.22813	0.82723	-0.00239	3.85678	0.19819	0.02749	0.76948
1.96309	-9.83883	1.77395	-0.35082	-1.22488	0.82789	-0.00239	3.84347	0.19904	0.02685	0.78000

2.00924	-9.96979	1.78698	-0.34966	-1.22164	0.82853	-0.00238	3.82826	0.19996	0.02622	0.79052
2.05634	-10.09997	1.79982	-0.34846	-1.21840	0.82917	-0.00238	3.81112	0.20095	0.02559	0.80087
2.10482	-10.23047	1.81256	-0.34720	-1.21513	0.82979	-0.00238	3.79180	0.20201	0.02498	0.81096
2.15424	-10.36015	1.82511	-0.34589	-1.21186	0.83040	-0.00238	3.77065	0.20314	0.02438	0.82052
2.20507	-10.49037	1.83762	-0.34451	-1.20856	0.83101	-0.00237	3.74762	0.20434	0.02380	0.82951
2.25683	-10.62015	1.85004	-0.34304	-1.20528	0.83161	-0.00237	3.72312	0.20559	0.02323	0.83789
2.31000	-10.75095	1.86253	-0.34147	-1.20199	0.83222	-0.00237	3.69721	0.20689	0.02266	0.84585
2.36463	-10.88309	1.87517	-0.33977	-1.19868	0.83283	-0.00236	3.67006	0.20823	0.02209	0.85349
2.42014	-11.01540	1.88788	-0.33795	-1.19539	0.83344	-0.00236	3.64216	0.20959	0.02153	0.86086
2.47709	-11.14922	1.90081	-0.33598	-1.19212	0.83407	-0.00236	3.61360	0.21099	0.02096	0.86822
2.53550	-11.28463	1.91397	-0.33386	-1.18884	0.83472	-0.00236	3.58450	0.21239	0.02037	0.87571
2.59471	-11.42009	1.92724	-0.33162	-1.18560	0.83538	-0.00235	3.55544	0.21379	0.01978	0.88338
2.65604	-11.55834	1.94084	-0.32919	-1.18236	0.83608	-0.00235	3.52612	0.21519	0.01918	0.89147
2.71887	-11.69774	1.95465	-0.32663	-1.17915	0.83680	-0.00235	3.49697	0.21659	0.01858	0.89991
2.78242	-11.83643	1.96845	-0.32396	-1.17600	0.83755	-0.00235	3.46845	0.21794	0.01798	0.90867
2.84819	-11.97714	1.98245	-0.32113	-1.17289	0.83836	-0.00234	3.44021	0.21929	0.01737	0.91800
2.91545	-12.11832	1.99656	-0.31822	-1.16979	0.83918	-0.00234	3.41236	0.22061	0.01678	0.92782
2.98329	-12.25738	2.01042	-0.31520	-1.16685	0.84005	-0.00234	3.38565	0.22189	0.01620	0.93792
3.05344	-12.39795	2.02443	-0.31210	-1.16388	0.84094	-0.00234	3.35904	0.22315	0.01564	0.94828
3.12598	-12.53961	2.03849	-0.30884	-1.16100	0.84190	-0.00233	3.33283	0.22441	0.01509	0.95872
3.19898	-12.67843	2.05222	-0.30560	-1.15819	0.84286	-0.00233	3.30754	0.22561	0.01458	0.96865
3.27439	-12.81811	2.06596	-0.30221	-1.15547	0.84389	-0.00233	3.28255	0.22682	0.01409	0.97809
3.35121	-12.95627	2.07949	-0.29882	-1.15280	0.84493	-0.00232	3.25827	0.22799	0.01364	0.98672
3.43053	-13.09519	2.09301	-0.29527	-1.15024	0.84604	-0.00232	3.23422	0.22917	0.01320	0.99493
3.51124	-13.23240	2.10629	-0.29175	-1.14770	0.84713	-0.00232	3.21078	0.23030	0.01279	1.00282
3.59324	-13.36791	2.11930	-0.28808	-1.14537	0.84831	-0.00231	3.18819	0.23144	0.01239	1.01079
3.67782	-13.50415	2.13241	-0.28448	-1.14293	0.84944	-0.00231	3.16551	0.23253	0.01201	1.01923
3.76506	-13.64001	2.14524	-0.28056	-1.14081	0.85073	-0.00231	3.14389	0.23366	0.01162	1.02865
3.85356	-13.77558	2.15826	-0.27687	-1.13848	0.85189	-0.00230	3.12191	0.23473	0.01125	1.03867
3.94477	-13.90955	2.17075	-0.27280	-1.13657	0.85326	-0.00230	3.10172	0.23582	0.01088	1.04944
4.03714	-14.04410	2.18363	-0.26892	-1.13445	0.85448	-0.00229	3.08083	0.23686	0.01053	1.06032
4.13223	-14.17704	2.19605	-0.26487	-1.13257	0.85582	-0.00229	3.06144	0.23788	0.01018	1.07132
4.23012	-14.31123	2.20862	-0.26056	-1.13088	0.85725	-0.00228	3.04240	0.23894	0.00984	1.08211
4.32900	-14.44479	2.22143	-0.25663	-1.12885	0.85847	-0.00228	3.02298	0.23990	0.00954	1.09200
4.43066	-14.57523	2.23334	-0.25209	-1.12753	0.86003	-0.00227	3.00633	0.24091	0.00923	1.10141
4.53515	-14.71011	2.24627	-0.24778	-1.12582	0.86138	-0.00227	2.98798	0.24188	0.00894	1.11007
4.64253	-14.84335	2.25885	-0.24351	-1.12413	0.86274	-0.00226	2.97073	0.24279	0.00867	1.11808
4.75059	-14.97205	2.27056	-0.23866	-1.12320	0.86441	-0.00226	2.95613	0.24377	0.00838	1.12557
4.86145	-15.10641	2.28367	-0.23436	-1.12152	0.86570	-0.00225	2.93891	0.24466	0.00813	1.13231
4.97760	-15.23918	2.29608	-0.22980	-1.12017	0.86718	-0.00224	2.92372	0.24552	0.00787	1.13879
5.09424	-15.36773	2.30770	-0.22461	-1.11959	0.86896	-0.00224	2.91097	0.24648	0.00760	1.14491
5.21376	-15.50321	2.32108	-0.22017	-1.11804	0.87026	-0.00223	2.89485	0.24732	0.00736	1.15042
5.33618	-15.63319	2.33330	-0.21566	-1.11681	0.87168	-0.00223	2.88118	0.24809	0.00713	1.15571
5.46150	-15.75897	2.34437	-0.21015	-1.11667	0.87362	-0.00222	2.87092	0.24901	0.00686	1.16113
5.58971	-15.89318	2.35751	-0.20536	-1.11556	0.87506	-0.00221	2.85699	0.24983	0.00663	1.16623
5.72082	-16.02564	2.37051	-0.20113	-1.11404	0.87626	-0.00220	2.84296	0.25050	0.00642	1.17124
5.85823	-16.14996	2.38105	-0.19543	-1.11421	0.87831	-0.00220	2.83478	0.25137	0.00615	1.17700
5.99520	-16.27822	2.39294	-0.18999	-1.11398	0.88010	-0.00219	2.82461	0.25222	0.00589	1.18267
6.13497	-16.41355	2.40678	-0.18577	-1.11241	0.88119	-0.00218	2.81050	0.25286	0.00570	1.18808
6.28141	-16.53937	2.41815	-0.18096	-1.11181	0.88275	-0.00217	2.80091	0.25353	0.00547	1.19402
6.42674	-16.65556	2.42760	-0.17496	-1.11266	0.88495	-0.00217	2.79572	0.25438	0.00519	1.20036
6.57895	-16.78600	2.44000	-0.16958	-1.11239	0.88664	-0.00216	2.78605	0.25516	0.00495	1.20669
6.73401	-16.92261	2.45422	-0.16561	-1.11069	0.88758	-0.00215	2.77258	0.25568	0.00478	1.21270
6.89180	-17.04022	2.46427	-0.16077	-1.11058	0.88922	-0.00214	2.76582	0.25630	0.00456	1.21922
7.05716	-17.15463	2.47293	-0.15430	-1.11202	0.89165	-0.00214	2.76308	0.25717	0.00426	1.22642
7.22022	-17.27735	2.48420	-0.14887	-1.11221	0.89341	-0.00213	2.75603	0.25789	0.00403	1.23296
7.39098	-17.41414	2.49858	-0.14484	-1.11069	0.89434	-0.00212	2.74387	0.25836	0.00387	1.23896
7.56430	-17.53544	2.50982	-0.14092	-1.10975	0.89546	-0.00211	2.73536	0.25877	0.00370	1.24478
7.73994	-17.63498	2.51603	-0.13462	-1.11178	0.89799	-0.00210	2.73604	0.25959	0.00341	1.25106
7.92393	-17.74995	2.52529	-0.12851	-1.11300	0.90018	-0.00210	2.73305	0.26037	0.00315	1.25681
8.11030	-17.87556	2.53726	-0.12347	-1.11290	0.90169	-0.00209	2.72591	0.26096	0.00294	1.26170
8.29876	-18.01102	2.55203	-0.12037	-1.11082	0.90219	-0.00207	2.71420	0.26116	0.00285	1.26553
8.49618	-18.12138	2.56091	-0.11617	-1.11079	0.90360	-0.00206	2.70998	0.26156	0.00267	1.26980
8.69565	-18.21150	2.56508	-0.10940	-1.11371	0.90643	-0.00206	2.71343	0.26248	0.00236	1.27477
8.90472	-18.32309	2.57373	-0.10337	-1.11514	0.90860	-0.00205	2.71185	0.26320	0.00210	1.27926
9.11577	-18.44142	2.58424	-0.09812	-1.11569	0.91031	-0.00204	2.70794	0.26377	0.00189	1.28338
9.32836	-18.57809	2.59939	-0.09495	-1.11382	0.91082	-0.00203	2.69830	0.26386	0.00181	1.28670
9.54198	-18.69629	2.61102	-0.09251	-1.11212	0.91126	-0.00202	2.69156	0.26379	0.00174	1.29018
9.76563	-18.77362	2.61289	-0.08637	-1.11522	0.91395	-0.00202	2.69585	0.26470	0.00143	1.29574
10.00000	-18.86429	2.61715	-0.07953	-1.11828	0.91676	-0.00201	2.69941	0.26563	0.00111	1.30200

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Low stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 61 - 152 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.53678	3.36827	-0.04455	-1.71567	1.06309	-0.00103	1.43749	0.43180	-0.01151	0.30377
PGV	2.56053	1.78820	-0.08653	-2.51351	1.38769	-0.00163	6.03003	0.34204	-0.01486	0.47430
PGA	0.99144	1.49582	-0.06709	-2.60076	1.00007	-0.00168	4.31542	0.45784	-0.03151	0.75914
0.01000	1.60635	1.51493	-0.06373	-2.72939	1.00423	-0.00151	4.93011	0.44739	-0.01908	0.76153
0.01024	1.62887	1.51696	-0.06303	-2.73482	1.00070	-0.00150	4.93870	0.44801	-0.01922	0.76259
0.01048	1.65564	1.51899	-0.06233	-2.74105	0.99734	-0.00148	4.95182	0.44851	-0.01938	0.76372
0.01072	1.68618	1.52102	-0.06164	-2.74796	0.99406	-0.00147	4.96885	0.44891	-0.01954	0.76487
0.01097	1.72068	1.52306	-0.06095	-2.75560	0.99083	-0.00145	4.98996	0.44922	-0.01971	0.76602
0.01123	1.75792	1.52510	-0.06024	-2.76374	0.98762	-0.00143	5.01354	0.44948	-0.01989	0.76717
0.01150	1.79690	1.52715	-0.05953	-2.77220	0.98442	-0.00141	5.03838	0.44970	-0.02007	0.76837
0.01177	1.83649	1.52918	-0.05881	-2.78073	0.98114	-0.00139	5.06304	0.44993	-0.02028	0.76962
0.01205	1.87590	1.53120	-0.05808	-2.78921	0.97774	-0.00137	5.08637	0.45019	-0.02049	0.77093
0.01233	1.91636	1.53324	-0.05732	-2.79788	0.97430	-0.00135	5.10978	0.45046	-0.02070	0.77220
0.01262	1.95830	1.53530	-0.05655	-2.80684	0.97081	-0.00133	5.13417	0.45071	-0.02090	0.77333
0.01292	2.00266	1.53737	-0.05578	-2.81623	0.96734	-0.00131	5.16127	0.45090	-0.02107	0.77425
0.01322	2.05017	1.53945	-0.05500	-2.82619	0.96398	-0.00129	5.19191	0.45102	-0.02122	0.77502
0.01353	2.10000	1.54158	-0.05421	-2.83659	0.96069	-0.00127	5.22445	0.45110	-0.02136	0.77577
0.01385	2.14996	1.54372	-0.05339	-2.84700	0.95734	-0.00124	5.25572	0.45122	-0.02153	0.77664
0.01417	2.19612	1.54581	-0.05257	-2.85661	0.95369	-0.00122	5.28106	0.45149	-0.02173	0.77771
0.01451	2.23732	1.54781	-0.05173	-2.86515	0.94957	-0.00120	5.29958	0.45191	-0.02194	0.77892
0.01485	2.27748	1.54979	-0.05090	-2.87340	0.94514	-0.00118	5.31641	0.45237	-0.02217	0.78026
0.01520	2.32201	1.55180	-0.05008	-2.88243	0.94077	-0.00116	5.33826	0.45274	-0.02242	0.78184
0.01556	2.37053	1.55386	-0.04928	-2.89222	0.93647	-0.00114	5.36435	0.45302	-0.02270	0.78360
0.01592	2.41868	1.55592	-0.04845	-2.90192	0.93208	-0.00112	5.38903	0.45334	-0.02297	0.78546
0.01630	2.46363	1.55797	-0.04758	-2.91096	0.92736	-0.00110	5.40870	0.45378	-0.02325	0.78737
0.01668	2.50674	1.55998	-0.04667	-2.91956	0.92233	-0.00108	5.42523	0.45430	-0.02350	0.78918
0.01707	2.55227	1.56202	-0.04576	-2.92861	0.91730	-0.00106	5.44373	0.45478	-0.02372	0.79077
0.01748	2.60381	1.56417	-0.04483	-2.93885	0.91231	-0.00103	5.46792	0.45517	-0.02391	0.79226
0.01789	2.66218	1.56644	-0.04391	-2.95034	0.90724	-0.00101	5.49913	0.45546	-0.02411	0.79382
0.01831	2.72560	1.56872	-0.04300	-2.96263	0.90189	-0.00098	5.53643	0.45564	-0.02435	0.79567
0.01874	2.78915	1.57098	-0.04210	-2.97480	0.89616	-0.00096	5.57366	0.45586	-0.02465	0.79794
0.01918	2.85057	1.57323	-0.04120	-2.98650	0.89013	-0.00093	5.60747	0.45616	-0.02501	0.80062
0.01963	2.90466	1.57544	-0.04028	-2.99681	0.88383	-0.00091	5.63112	0.45666	-0.02538	0.80335
0.02009	2.94600	1.57753	-0.03933	-3.00472	0.87740	-0.00089	5.63822	0.45747	-0.02569	0.80573
0.02057	2.97929	1.57952	-0.03836	-3.01105	0.87109	-0.00087	5.63534	0.45847	-0.02598	0.80790
0.02105	3.01129	1.58148	-0.03737	-3.01700	0.86474	-0.00085	5.63080	0.45950	-0.02628	0.81019
0.02154	3.05007	1.58356	-0.03638	-3.02412	0.85840	-0.00084	5.63367	0.46044	-0.02661	0.81270
0.02205	3.09924	1.58579	-0.03539	-3.03313	0.85241	-0.00082	5.64886	0.46115	-0.02696	0.81542
0.02257	3.14631	1.58794	-0.03443	-3.04157	0.84654	-0.00080	5.66252	0.46189	-0.02732	0.81817
0.02310	3.17729	1.58984	-0.03349	-3.04674	0.84025	-0.00079	5.65754	0.46299	-0.02767	0.82082
0.02364	3.19080	1.59157	-0.03252	-3.04855	0.83329	-0.00079	5.63027	0.46453	-0.02797	0.82321
0.02420	3.20095	1.59324	-0.03150	-3.04966	0.82562	-0.00078	5.59768	0.46620	-0.02828	0.82561
0.02477	3.22918	1.59497	-0.03058	-3.05408	0.81782	-0.00076	5.58760	0.46743	-0.02863	0.82823
0.02535	3.27190	1.59676	-0.02982	-3.06113	0.81007	-0.00074	5.59627	0.46826	-0.02892	0.83052
0.02595	3.31897	1.59853	-0.02914	-3.06886	0.80210	-0.00073	5.61114	0.46896	-0.02914	0.83237
0.02656	3.35875	1.60020	-0.02846	-3.07498	0.79322	-0.00071	5.61743	0.46988	-0.02933	0.83406
0.02719	3.37603	1.60171	-0.02777	-3.07670	0.78321	-0.00069	5.59666	0.47137	-0.02948	0.83554
0.02783	3.37419	1.60320	-0.02703	-3.07489	0.77263	-0.00068	5.55192	0.47338	-0.02958	0.83667
0.02848	3.35116	1.60469	-0.02618	-3.06922	0.76157	-0.00068	5.47948	0.47600	-0.02964	0.83770
0.02915	3.30162	1.60605	-0.02524	-3.05868	0.75079	-0.00068	5.37453	0.47932	-0.02968	0.83875
0.02984	3.23855	1.60730	-0.02429	-3.04569	0.74122	-0.00070	5.25589	0.48291	-0.02970	0.83976
0.03054	3.18227	1.60848	-0.02340	-3.03382	0.73281	-0.00071	5.14970	0.48623	-0.02968	0.84065
0.03126	3.13478	1.60946	-0.02261	-3.02315	0.72448	-0.00073	5.05861	0.48924	-0.02966	0.84156
0.03199	3.09009	1.61016	-0.02190	-3.01248	0.71567	-0.00074	4.97551	0.49210	-0.02967	0.84263
0.03275	3.05608	1.61068	-0.02129	-3.00331	0.70689	-0.00075	4.90971	0.49458	-0.02977	0.84432
0.03352	3.02967	1.61109	-0.02079	-2.99502	0.69791	-0.00076	4.85742	0.49679	-0.03003	0.84712
0.03430	3.00405	1.61140	-0.02041	-2.98661	0.68882	-0.00078	4.80858	0.49895	-0.03043	0.85101
0.03511	2.98030	1.61164	-0.02012	-2.97852	0.67995	-0.00079	4.76135	0.50105	-0.03094	0.85562
0.03594	2.94369	1.61168	-0.01984	-2.96796	0.67065	-0.00080	4.69923	0.50352	-0.03147	0.86047
0.03678	2.87995	1.61127	-0.01950	-2.95215	0.66069	-0.00082	4.60965	0.50666	-0.03202	0.86552
0.03765	2.79369	1.61060	-0.01899	-2.93210	0.65114	-0.00085	4.49995	0.51029	-0.03259	0.87068
0.03854	2.69658	1.61008	-0.01828	-2.91038	0.64254	-0.00088	4.38167	0.51417	-0.03299	0.87469
0.03944	2.59785	1.60973	-0.01754	-2.88877	0.63478	-0.00092	4.26328	0.51810	-0.03312	0.87692
0.04037	2.50339	1.60933	-0.01691	-2.86798	0.62752	-0.00095	4.15185	0.52188	-0.03311	0.87819
0.04132	2.39771	1.60893	-0.01627	-2.84510	0.61915	-0.00098	4.02985	0.52612	-0.03296	0.87857
0.04229	2.26708	1.60866	-0.01545	-2.81775	0.60884	-0.00102	3.88204	0.53137	-0.03264	0.87791
0.04329	2.12578	1.60842	-0.01447	-2.78856	0.59833	-0.00106	3.72597	0.53708	-0.03229	0.87696
0.04431	1.98589	1.60779	-0.01355	-2.75939	0.58889	-0.00110	3.57695	0.54264	-0.03208	0.87683
0.04535	1.83971	1.60640	-0.01272	-2.72829	0.57971	-0.00114	3.42830	0.54829	-0.03208	0.87806

0.04642	1.69866	1.60455	-0.01195	-2.69754	0.57077	-0.00119	3.28947	0.55377	-0.03222	0.88007
0.04751	1.58575	1.60293	-0.01134	-2.67207	0.56320	-0.00123	3.17898	0.55839	-0.03222	0.88114
0.04863	1.47891	1.60157	-0.01086	-2.64798	0.55637	-0.00127	3.07531	0.56289	-0.03188	0.87978
0.04977	1.33403	1.60010	-0.01030	-2.61676	0.54875	-0.00132	2.94064	0.56883	-0.03128	0.87663
0.05094	1.14315	1.59832	-0.00948	-2.57673	0.54040	-0.00138	2.77154	0.57654	-0.03072	0.87360
0.05214	0.95692	1.59642	-0.00857	-2.53757	0.53354	-0.00145	2.61296	0.58413	-0.03031	0.87166
0.05337	0.84224	1.59465	-0.00803	-2.51199	0.53065	-0.00150	2.51883	0.58881	-0.03005	0.87063
0.05462	0.80745	1.59309	-0.00810	-2.50120	0.53092	-0.00153	2.49375	0.59010	-0.02990	0.87030
0.05591	0.79097	1.59168	-0.00851	-2.49348	0.53063	-0.00156	2.48689	0.59057	-0.02980	0.87026
0.05722	0.73106	1.59028	-0.00869	-2.47758	0.52753	-0.00159	2.44694	0.59283	-0.02960	0.86953
0.05857	0.63473	1.58867	-0.00850	-2.45487	0.52257	-0.00164	2.37926	0.59656	-0.02936	0.86859
0.05995	0.53408	1.58661	-0.00818	-2.43079	0.51689	-0.00168	2.31028	0.60045	-0.02935	0.86937
0.06136	0.42383	1.58390	-0.00779	-2.40393	0.51026	-0.00173	2.23660	0.60473	-0.02954	0.87191
0.06280	0.27981	1.58080	-0.00732	-2.37038	0.50241	-0.00178	2.13813	0.61058	-0.02966	0.87443
0.06428	0.11022	1.57790	-0.00691	-2.33300	0.49518	-0.00184	2.01886	0.61784	-0.02958	0.87589
0.06579	-0.05124	1.57533	-0.00656	-2.29832	0.49089	-0.00190	1.90470	0.62500	-0.02944	0.87713
0.06734	-0.19274	1.57277	-0.00596	-2.26760	0.48871	-0.00196	1.80690	0.63138	-0.02946	0.87943
0.06893	-0.32416	1.57027	-0.00501	-2.23853	0.48671	-0.00201	1.71974	0.63743	-0.02961	0.88231
0.07055	-0.43858	1.56821	-0.00430	-2.21282	0.48618	-0.00207	1.64707	0.64276	-0.02963	0.88382
0.07221	-0.51834	1.56663	-0.00437	-2.19425	0.48946	-0.00212	1.59832	0.64629	-0.02931	0.88274
0.07391	-0.57031	1.56495	-0.00501	-2.18126	0.49620	-0.00217	1.56737	0.64825	-0.02875	0.87984
0.07565	-0.62001	1.56269	-0.00576	-2.16858	0.50418	-0.00221	1.53757	0.64994	-0.02823	0.87721
0.07743	-0.67609	1.55974	-0.00659	-2.15445	0.51068	-0.00226	1.50342	0.65188	-0.02793	0.87603
0.07925	-0.71718	1.55610	-0.00776	-2.14256	0.51504	-0.00229	1.47949	0.65292	-0.02781	0.87598
0.08111	-0.72819	1.55142	-0.00937	-2.13500	0.51898	-0.00231	1.47778	0.65194	-0.02784	0.87689
0.08302	-0.72791	1.54573	-0.01115	-2.12806	0.52302	-0.00233	1.48790	0.64987	-0.02793	0.87843
0.08498	-0.74746	1.53971	-0.01261	-2.11667	0.52660	-0.00235	1.48876	0.64864	-0.02790	0.87955
0.08697	-0.80127	1.53415	-0.01345	-2.09933	0.53060	-0.00239	1.46763	0.64939	-0.02762	0.87934
0.08902	-0.88732	1.52943	-0.01371	-2.07734	0.53581	-0.00245	1.42280	0.65226	-0.02703	0.87727
0.09112	-0.99910	1.52491	-0.01359	-2.05134	0.54144	-0.00250	1.35934	0.65687	-0.02608	0.87280
0.09326	-1.12465	1.51950	-0.01346	-2.02200	0.54662	-0.00257	1.28784	0.66237	-0.02478	0.86600
0.09545	-1.24191	1.51323	-0.01376	-1.99313	0.55186	-0.00264	1.22344	0.66737	-0.02329	0.85793
0.09770	-1.33638	1.50670	-0.01478	-1.96791	0.55698	-0.00270	1.17470	0.67097	-0.02170	0.84932
0.10000	-1.40753	1.49979	-0.01656	-1.94626	0.56041	-0.00274	1.14119	0.67311	-0.02007	0.84057
0.10235	-1.45756	1.49265	-0.01886	-1.92806	0.56209	-0.00278	1.12094	0.67390	-0.01850	0.83229
0.10476	-1.49382	1.48612	-0.02114	-1.91317	0.56345	-0.00280	1.10951	0.67382	-0.01717	0.82561
0.10723	-1.53501	1.48056	-0.02288	-1.89876	0.56419	-0.00281	1.09647	0.67402	-0.01624	0.82165
0.10975	-1.59741	1.47557	-0.02396	-1.88123	0.56251	-0.00283	1.07291	0.67556	-0.01568	0.82020
0.11233	-1.68129	1.47046	-0.02471	-1.85971	0.55862	-0.00285	1.03809	0.67852	-0.01524	0.81943
0.11498	-1.77029	1.46487	-0.02555	-1.83703	0.55575	-0.00287	0.99981	0.68188	-0.01469	0.81786
0.11768	-1.84049	1.45908	-0.02678	-1.81812	0.55806	-0.00290	0.97006	0.68403	-0.01403	0.81538
0.12045	-1.86907	1.45402	-0.02867	-1.80825	0.56796	-0.00293	0.96091	0.68335	-0.01333	0.81255
0.12328	-1.85430	1.45004	-0.03129	-1.80792	0.58408	-0.00296	0.97446	0.67963	-0.01281	0.81097
0.12619	-1.82288	1.44648	-0.03436	-1.81101	0.60084	-0.00298	0.99798	0.67470	-0.01268	0.81198
0.12916	-1.81180	1.44211	-0.03733	-1.80900	0.61159	-0.00299	1.01136	0.67123	-0.01279	0.81452
0.13219	-1.84236	1.43611	-0.03987	-1.79694	0.61296	-0.00299	1.00147	0.67080	-0.01283	0.81602
0.13531	-1.90987	1.42910	-0.04199	-1.77641	0.60611	-0.00299	0.96999	0.67335	-0.01256	0.81476
0.13849	-1.99755	1.42253	-0.04384	-1.75231	0.59517	-0.00299	0.92686	0.67785	-0.01200	0.81109
0.14175	-2.09328	1.41722	-0.04549	-1.72802	0.58443	-0.00298	0.88019	0.68330	-0.01135	0.80644
0.14508	-2.19422	1.41264	-0.04716	-1.70372	0.57559	-0.00299	0.83233	0.68924	-0.01072	0.80168
0.14850	-2.29777	1.40829	-0.04906	-1.67945	0.56925	-0.00300	0.78508	0.69530	-0.01005	0.79658
0.15199	-2.39545	1.40427	-0.05123	-1.65686	0.56743	-0.00302	0.74326	0.70065	-0.00934	0.79102
0.15557	-2.47618	1.40053	-0.05354	-1.63810	0.57259	-0.00305	0.71213	0.70416	-0.00869	0.78602
0.15923	-2.53095	1.39675	-0.05590	-1.62465	0.58454	-0.00309	0.69504	0.70496	-0.00826	0.78277
0.16298	-2.55613	1.39305	-0.05827	-1.61713	0.60058	-0.00314	0.69315	0.70284	-0.00810	0.78176
0.16681	-2.55042	1.38994	-0.06082	-1.61597	0.61837	-0.00317	0.70752	0.69787	-0.00813	0.78242
0.17074	-2.51534	1.38778	-0.06379	-1.62098	0.63663	-0.00320	0.73818	0.69042	-0.00820	0.78372
0.17475	-2.46274	1.38617	-0.06726	-1.62950	0.65366	-0.00321	0.77935	0.68177	-0.00818	0.78481
0.17887	-2.40727	1.38444	-0.07113	-1.63821	0.66688	-0.00321	0.82249	0.67340	-0.00807	0.78555
0.18307	-2.35610	1.38252	-0.07529	-1.64580	0.67445	-0.00319	0.86267	0.66608	-0.00789	0.78600
0.18738	-2.31141	1.38089	-0.07967	-1.65238	0.67636	-0.00314	0.89839	0.65998	-0.00752	0.78545
0.19179	-2.27906	1.37965	-0.08409	-1.65713	0.67399	-0.00308	0.92597	0.65540	-0.00685	0.78268
0.19631	-2.27233	1.37840	-0.08818	-1.65735	0.66942	-0.00303	0.93703	0.65310	-0.00584	0.77722
0.20092	-2.30081	1.37654	-0.09163	-1.65077	0.66528	-0.00299	0.92637	0.65337	-0.00465	0.77000
0.20565	-2.36471	1.37347	-0.09446	-1.63674	0.66340	-0.00298	0.89574	0.65583	-0.00344	0.76233
0.21049	-2.45811	1.36854	-0.09697	-1.61568	0.66320	-0.00299	0.85018	0.65984	-0.00238	0.75563
0.21544	-2.57240	1.36147	-0.09957	-1.58884	0.66240	-0.00301	0.79551	0.66485	-0.00159	0.75094
0.22051	-2.69132	1.35274	-0.10252	-1.55964	0.66046	-0.00303	0.74164	0.66966	-0.00114	0.74879
0.22570	-2.79516	1.34330	-0.10590	-1.53261	0.65911	-0.00306	0.69950	0.67259	-0.00104	0.74912
0.23101	-2.87539	1.33393	-0.10968	-1.50997	0.65953	-0.00308	0.67296	0.67290	-0.00116	0.75105
0.23645	-2.93242	1.32533	-0.11371	-1.49217	0.66273	-0.00311	0.66105	0.67075	-0.00136	0.75343
0.24201	-2.96632	1.31827	-0.11782	-1.47995	0.67009	-0.00313	0.66326	0.66637	-0.00149	0.75552
0.24771	-2.97357	1.31339	-0.12197	-1.47479	0.68244	-0.00315	0.68160	0.65961	-0.00157	0.75734
0.25354	-2.95436	1.31111	-0.12612	-1.47724	0.69850	-0.00317	0.71603	0.65088	-0.00162	0.75924
0.25950	-2.91559	1.31167	-0.13010	-1.48638	0.71527	-0.00317	0.76243	0.64135	-0.00159	0.76076
0.26561	-2.86465	1.31471	-0.13395	-1.50047	0.73026	-0.00315	0.81685	0.63186	-0.00137	0.76118
0.27186	-2.80926	1.31965	-0.13769	-1.51733	0.74313	-0.00313	0.87549	0.62292	-0.00088	0.75998
0.27826	-2.75536	1.32586	-0.14140	-1.53511	0.75486	-0.00310	0.93598	0.61459	-0.00026	0.75787
0.28480	-2.71098	1.33268	-0.14510	-1.55168	0.76576	-0.00308	0.99364	0.60716	0.00039	0.75547
0.29150	-2.68162	1.33973	-0.14886	-1.56580	0.77565	-0.00307	1.04461	0.60077	0.00104	0.75290
0.29836	-2.66649	1.34683	-0.15274	-1.57762	0.78443	-0.00305	1.08883	0.59520	0.00165	0.75065

0.30539	-2.66545	1.35354	-0.15673	-1.58682	0.79171	-0.00304	1.12594	0.59030	0.00217	0.74906
0.31257	-2.67677	1.35924	-0.16082	-1.59313	0.79769	-0.00303	1.15645	0.58579	0.00259	0.74842
0.31993	-2.70137	1.36365	-0.16485	-1.59610	0.80306	-0.00301	1.17891	0.58173	0.00283	0.74916
0.32745	-2.74020	1.36683	-0.16874	-1.59548	0.80806	-0.00300	1.19253	0.57817	0.00289	0.75125
0.33517	-2.79141	1.36882	-0.17260	-1.59159	0.81202	-0.00300	1.19865	0.57500	0.00283	0.75409
0.34304	-2.85206	1.36960	-0.17654	-1.58488	0.81366	-0.00299	1.19918	0.57206	0.00271	0.75713
0.35112	-2.92278	1.36901	-0.18063	-1.57500	0.81173	-0.00297	1.19377	0.56933	0.00248	0.76059
0.35938	-3.00271	1.36706	-0.18492	-1.56203	0.80588	-0.00294	1.18232	0.56689	0.00204	0.76492
0.36784	-3.08767	1.36445	-0.18935	-1.54755	0.79711	-0.00291	1.16733	0.56461	0.00139	0.77030
0.37649	-3.16896	1.36221	-0.19386	-1.53436	0.78737	-0.00288	1.15494	0.56210	0.00060	0.77649
0.38536	-3.24534	1.36108	-0.19832	-1.52347	0.77833	-0.00284	1.14501	0.55959	-0.00022	0.78295
0.39442	-3.31320	1.36180	-0.20261	-1.51642	0.77198	-0.00280	1.14032	0.55695	-0.00090	0.78876
0.40370	-3.37040	1.36474	-0.20668	-1.51409	0.76948	-0.00276	1.14315	0.55398	-0.00137	0.79348
0.41321	-3.40923	1.36966	-0.21062	-1.51783	0.77192	-0.00272	1.16028	0.54995	-0.00169	0.79768
0.42292	-3.43178	1.37599	-0.21454	-1.52656	0.77920	-0.00269	1.19085	0.54486	-0.00194	0.80177
0.43288	-3.44584	1.38332	-0.21846	-1.53815	0.79052	-0.00266	1.23046	0.53909	-0.00211	0.80570
0.44307	-3.45894	1.39113	-0.22238	-1.55045	0.80448	-0.00264	1.27294	0.53323	-0.00225	0.80985
0.45349	-3.47498	1.39898	-0.22632	-1.56217	0.81950	-0.00262	1.31438	0.52759	-0.00245	0.81479
0.46417	-3.49560	1.40660	-0.23028	-1.57268	0.83398	-0.00261	1.35374	0.52218	-0.00273	0.82047
0.47508	-3.52085	1.41380	-0.23430	-1.58174	0.84680	-0.00259	1.39157	0.51685	-0.00302	0.82636
0.48626	-3.55044	1.42028	-0.23855	-1.58905	0.85724	-0.00256	1.42758	0.51157	-0.00325	0.83187
0.49771	-3.58184	1.42583	-0.24310	-1.59477	0.86524	-0.00253	1.46435	0.50615	-0.00334	0.83649
0.50942	-3.62008	1.43041	-0.24790	-1.59772	0.87056	-0.00250	1.49778	0.50087	-0.00324	0.83996
0.52140	-3.67111	1.43424	-0.25280	-1.59682	0.87284	-0.00247	1.52184	0.49626	-0.00297	0.84241
0.53367	-3.73624	1.43753	-0.25769	-1.59193	0.87230	-0.00245	1.53355	0.49261	-0.00263	0.84457
0.54624	-3.81125	1.44038	-0.26255	-1.58399	0.86969	-0.00243	1.53506	0.48990	-0.00234	0.84720
0.55910	-3.89080	1.44313	-0.26734	-1.57440	0.86614	-0.00241	1.53137	0.48782	-0.00213	0.85038
0.57225	-3.97196	1.44621	-0.27198	-1.56423	0.86272	-0.00240	1.52613	0.48613	-0.00194	0.85370
0.58569	-4.05590	1.44974	-0.27639	-1.55343	0.85983	-0.00239	1.51829	0.48491	-0.00170	0.85673
0.59948	-4.14564	1.45352	-0.28060	-1.54131	0.85723	-0.00239	1.50443	0.48436	-0.00140	0.85933
0.61357	-4.23999	1.45732	-0.28461	-1.52796	0.85493	-0.00240	1.48422	0.48450	-0.00105	0.86163
0.62802	-4.34055	1.46112	-0.28841	-1.51311	0.85272	-0.00242	1.45711	0.48531	-0.00068	0.86358
0.64280	-4.44668	1.46499	-0.29194	-1.49707	0.85061	-0.00244	1.42493	0.48656	-0.00025	0.86499
0.65794	-4.55677	1.46895	-0.29524	-1.48027	0.84865	-0.00246	1.38955	0.48807	0.00024	0.86580
0.67340	-4.66752	1.47290	-0.29839	-1.46338	0.84693	-0.00249	1.35334	0.48966	0.00082	0.86580
0.68927	-4.77904	1.47675	-0.30147	-1.44639	0.84504	-0.00251	1.31640	0.49132	0.00154	0.86464
0.70547	-4.88923	1.48046	-0.30455	-1.42970	0.84278	-0.00254	1.28104	0.49281	0.00245	0.86191
0.72207	-4.99768	1.48413	-0.30765	-1.41353	0.83988	-0.00256	1.25014	0.49379	0.00358	0.85727
0.73910	-5.10520	1.48773	-0.31081	-1.39765	0.83578	-0.00257	1.22406	0.49408	0.00491	0.85065
0.75649	-5.21045	1.49122	-0.31407	-1.38230	0.83047	-0.00259	1.20391	0.49354	0.00640	0.84204
0.77429	-5.31457	1.49460	-0.31744	-1.36726	0.82417	-0.00259	1.18829	0.49233	0.00805	0.83130
0.79246	-5.42074	1.49771	-0.32093	-1.35173	0.81683	-0.00260	1.17287	0.49086	0.00985	0.81845
0.81116	-5.53070	1.50057	-0.32456	-1.33538	0.80859	-0.00261	1.15635	0.48922	0.01175	0.80389
0.83022	-5.64070	1.50326	-0.32827	-1.31907	0.80040	-0.00262	1.14176	0.48714	0.01368	0.78856
0.84976	-5.75008	1.50600	-0.33202	-1.30324	0.79284	-0.00263	1.13078	0.48440	0.01556	0.77327
0.86972	-5.85800	1.50892	-0.33572	-1.28823	0.78620	-0.00265	1.12395	0.48096	0.01731	0.75902
0.89023	-5.96596	1.51211	-0.33935	-1.27391	0.78058	-0.00266	1.12043	0.47692	0.01884	0.74672
0.91116	-6.07289	1.51553	-0.34291	-1.26049	0.77596	-0.00268	1.11913	0.47249	0.02012	0.73730
0.93257	-6.17866	1.51920	-0.34645	-1.24805	0.77221	-0.00269	1.11958	0.46779	0.02108	0.73112
0.95456	-6.28292	1.52313	-0.34996	-1.23681	0.76963	-0.00271	1.12271	0.46270	0.02175	0.72817
0.97704	-6.38551	1.52731	-0.35343	-1.22686	0.76845	-0.00273	1.12942	0.45707	0.02214	0.72810
1.00000	-6.48621	1.53181	-0.35684	-1.21833	0.76883	-0.00274	1.14154	0.45068	0.02232	0.73033
1.02354	-6.58533	1.53676	-0.36018	-1.21133	0.77095	-0.00276	1.16159	0.44322	0.02232	0.73447
1.04767	-6.68247	1.54232	-0.36341	-1.20610	0.77468	-0.00278	1.19244	0.43451	0.02216	0.74023
1.07227	-6.77719	1.54845	-0.36647	-1.20266	0.77976	-0.00280	1.23508	0.42461	0.02186	0.74724
1.09745	-6.86942	1.55515	-0.36934	-1.20110	0.78621	-0.00282	1.29083	0.41356	0.02149	0.75501
1.12334	-6.96140	1.56230	-0.37202	-1.20082	0.79321	-0.00283	1.35798	0.40167	0.02112	0.76292
1.14982	-7.05308	1.56966	-0.37453	-1.20146	0.80018	-0.00284	1.43569	0.38916	0.02087	0.77024
1.17675	-7.14411	1.57704	-0.37693	-1.20276	0.80668	-0.00285	1.52384	0.37616	0.02082	0.77621
1.20453	-7.23760	1.58451	-0.37926	-1.20424	0.81227	-0.00285	1.62233	0.36266	0.02102	0.78037
1.23289	-7.33519	1.59206	-0.38142	-1.20535	0.81638	-0.00285	1.72766	0.34899	0.02149	0.78234
1.26183	-7.43734	1.59980	-0.38340	-1.20607	0.81925	-0.00284	1.83939	0.33525	0.02221	0.78209
1.29149	-7.54283	1.60794	-0.38515	-1.20688	0.82163	-0.00283	1.96098	0.32132	0.02316	0.77982
1.32188	-7.64948	1.61655	-0.38664	-1.20830	0.82446	-0.00281	2.09616	0.30716	0.02431	0.77578
1.35300	-7.75974	1.62555	-0.38780	-1.20964	0.82717	-0.00280	2.24015	0.29313	0.02560	0.77040
1.38485	-7.87625	1.63481	-0.38859	-1.21008	0.82888	-0.00278	2.38639	0.27953	0.02698	0.76416
1.41743	-7.99749	1.64416	-0.38902	-1.20970	0.82968	-0.00276	2.53517	0.26636	0.02841	0.75753
1.45075	-8.12204	1.65346	-0.38912	-1.20857	0.82959	-0.00274	2.68612	0.25366	0.02984	0.75085
1.48500	-8.24990	1.66263	-0.38891	-1.20669	0.82870	-0.00272	2.83861	0.24142	0.03125	0.74446
1.51999	-8.37985	1.67158	-0.38840	-1.20405	0.82719	-0.00270	2.98933	0.22980	0.03256	0.73874
1.55569	-8.51184	1.68033	-0.38765	-1.20060	0.82513	-0.00268	3.13520	0.21891	0.03373	0.73393
1.59236	-8.64520	1.68905	-0.38669	-1.19673	0.82311	-0.00266	3.27841	0.20864	0.03475	0.73014
1.62973	-8.77805	1.69779	-0.38555	-1.19277	0.82136	-0.00264	3.41857	0.19911	0.03560	0.72751
1.66806	-8.91077	1.70676	-0.38422	-1.18894	0.82000	-0.00262	3.55647	0.19028	0.03625	0.72619
1.70736	-9.04364	1.71604	-0.38272	-1.18524	0.81907	-0.00261	3.68975	0.18221	0.03667	0.72641
1.74764	-9.17725	1.72567	-0.38106	-1.18159	0.81844	-0.00260	3.81508	0.17495	0.03686	0.72825
1.78859	-9.31097	1.73560	-0.37927	-1.17794	0.81794	-0.00258	3.92844	0.16862	0.03683	0.73167
1.83083	-9.44699	1.74597	-0.37734	-1.17416	0.81737	-0.00257	4.02913	0.16312	0.03662	0.73657
1.87371	-9.58239	1.75653	-0.37534	-1.17042	0.81682	-0.00256	4.11645	0.15848	0.03626	0.74270
1.91791	-9.71888	1.76737	-0.37327	-1.16669	0.81629	-0.00255	4.19168	0.15456	0.03579	0.74991
1.96309	-9.85490	1.77832	-0.37115	-1.16300	0.81578	-0.00254	4.25421	0.15137	0.03524	0.75784

2.00924	-9.98962	1.78929	-0.36903	-1.15944	0.81533	-0.00253	4.30620	0.14879	0.03465	0.76620
2.05634	-10.12225	1.80020	-0.36691	-1.15613	0.81509	-0.00252	4.34973	0.14675	0.03404	0.77476
2.10482	-10.25374	1.81111	-0.36479	-1.15305	0.81510	-0.00251	4.38593	0.14520	0.03341	0.78335
2.15424	-10.38307	1.82193	-0.36268	-1.15020	0.81535	-0.00250	4.41465	0.14409	0.03278	0.79163
2.20507	-10.51176	1.83277	-0.36057	-1.14751	0.81579	-0.00249	4.43598	0.14339	0.03216	0.79951
2.25683	-10.63907	1.84361	-0.35845	-1.14497	0.81634	-0.00248	4.44938	0.14310	0.03155	0.80693
2.31000	-10.76645	1.85458	-0.35628	-1.14256	0.81702	-0.00248	4.45555	0.14319	0.03095	0.81402
2.36463	-10.89414	1.86578	-0.35407	-1.14032	0.81784	-0.00247	4.45508	0.14363	0.03034	0.82091
2.42014	-11.02116	1.87714	-0.35179	-1.13826	0.81882	-0.00246	4.44824	0.14441	0.02973	0.82769
2.47709	-11.14881	1.88879	-0.34943	-1.13638	0.81996	-0.00245	4.43587	0.14551	0.02909	0.83458
2.53550	-11.27721	1.90077	-0.34697	-1.13469	0.82129	-0.00245	4.41846	0.14690	0.02842	0.84179
2.59471	-11.40497	1.91296	-0.34444	-1.13321	0.82278	-0.00244	4.39702	0.14854	0.02772	0.84938
2.65604	-11.53471	1.92557	-0.34176	-1.13192	0.82447	-0.00243	4.37217	0.15041	0.02698	0.85756
2.71887	-11.66499	1.93848	-0.33899	-1.13081	0.82634	-0.00242	4.34460	0.15248	0.02621	0.86630
2.78242	-11.79414	1.95149	-0.33616	-1.12989	0.82835	-0.00242	4.31529	0.15468	0.02542	0.87554
2.84819	-11.92480	1.96479	-0.33320	-1.12913	0.83052	-0.00241	4.28438	0.15703	0.02459	0.88551
2.91545	-12.05566	1.97828	-0.33018	-1.12849	0.83280	-0.00241	4.25245	0.15945	0.02375	0.89613
2.98329	-12.18428	1.99159	-0.32710	-1.12801	0.83517	-0.00240	4.22082	0.16190	0.02293	0.90709
3.05344	-12.31434	2.00514	-0.32395	-1.12757	0.83760	-0.00239	4.18844	0.16440	0.02210	0.91842
3.12598	-12.44525	2.01876	-0.32066	-1.12725	0.84013	-0.00239	4.15592	0.16694	0.02127	0.92989
3.19898	-12.57368	2.03213	-0.31741	-1.12694	0.84262	-0.00238	4.12419	0.16942	0.02050	0.94084
3.27439	-12.70285	2.04553	-0.31403	-1.12671	0.84518	-0.00238	4.09271	0.17191	0.01974	0.95129
3.35121	-12.83084	2.05876	-0.31066	-1.12646	0.84770	-0.00237	4.06210	0.17432	0.01904	0.96091
3.43053	-12.95950	2.07198	-0.30716	-1.12628	0.85026	-0.00236	4.03192	0.17673	0.01836	0.97007
3.51124	-13.08689	2.08501	-0.30368	-1.12605	0.85276	-0.00236	4.00272	0.17905	0.01772	0.97888
3.59324	-13.21261	2.09773	-0.30009	-1.12591	0.85527	-0.00235	3.97467	0.18131	0.01710	0.98771
3.67782	-13.33961	2.11063	-0.29654	-1.12564	0.85769	-0.00235	3.94682	0.18350	0.01651	0.99700
3.76506	-13.46589	2.12315	-0.29274	-1.12554	0.86021	-0.00234	3.92041	0.18567	0.01592	1.00721
3.85356	-13.59276	2.13600	-0.28910	-1.12524	0.86257	-0.00233	3.89403	0.18773	0.01536	1.01803
3.94477	-13.71761	2.14815	-0.28517	-1.12516	0.86504	-0.00233	3.86972	0.18975	0.01482	1.02950
4.03714	-13.84381	2.16084	-0.28138	-1.12491	0.86738	-0.00232	3.84482	0.19172	0.01429	1.04111
4.13223	-13.96845	2.17300	-0.27745	-1.12473	0.86973	-0.00231	3.82165	0.19359	0.01379	1.05276
4.23012	-14.09414	2.18526	-0.27329	-1.12468	0.87215	-0.00231	3.79878	0.19549	0.01330	1.06417
4.32900	-14.22043	2.19795	-0.26943	-1.12434	0.87436	-0.00230	3.77584	0.19726	0.01285	1.07469
4.43066	-14.34264	2.20946	-0.26510	-1.12441	0.87678	-0.00230	3.75580	0.19899	0.01241	1.08460
4.53515	-14.47019	2.22221	-0.26090	-1.12424	0.87907	-0.00229	3.73415	0.20073	0.01199	1.09381
4.64253	-14.59659	2.23463	-0.25674	-1.12401	0.88129	-0.00228	3.71401	0.20233	0.01160	1.10233
4.75059	-14.71741	2.24589	-0.25214	-1.12425	0.88373	-0.00228	3.69660	0.20393	0.01122	1.11020
4.86145	-14.84553	2.25895	-0.24790	-1.12404	0.88590	-0.00227	3.67696	0.20549	0.01086	1.11743
4.97760	-14.97181	2.27116	-0.24347	-1.12395	0.88816	-0.00226	3.65975	0.20694	0.01051	1.12429
5.09424	-15.09273	2.28230	-0.23856	-1.12436	0.89065	-0.00226	3.64507	0.20840	0.01016	1.13071
5.21376	-15.22267	2.29569	-0.23414	-1.12419	0.89280	-0.00225	3.62757	0.20981	0.00983	1.13662
5.33618	-15.34714	2.30780	-0.22972	-1.12411	0.89495	-0.00224	3.61279	0.21107	0.00952	1.14225
5.46150	-15.46541	2.31827	-0.22455	-1.12473	0.89747	-0.00224	3.60132	0.21238	0.00920	1.14787
5.58971	-15.59427	2.33136	-0.21982	-1.12480	0.89968	-0.00223	3.58661	0.21368	0.00889	1.15330
5.72082	-15.72281	2.34455	-0.21554	-1.12451	0.90163	-0.00222	3.57222	0.21481	0.00860	1.15868
5.85823	-15.83990	2.35443	-0.21021	-1.12524	0.90416	-0.00221	3.56336	0.21597	0.00829	1.16458
5.99520	-15.96207	2.36594	-0.20500	-1.12578	0.90652	-0.00221	3.55265	0.21716	0.00798	1.17046
6.13497	-16.09446	2.38015	-0.20063	-1.12551	0.90840	-0.00220	3.53872	0.21824	0.00771	1.17624
6.28141	-16.21574	2.39136	-0.19595	-1.12568	0.91049	-0.00219	3.52911	0.21920	0.00743	1.18242
6.42674	-16.32464	2.39996	-0.19042	-1.12676	0.91299	-0.00218	3.52343	0.22023	0.00713	1.18882
6.57895	-16.45019	2.41217	-0.18517	-1.12727	0.91523	-0.00218	3.51379	0.22130	0.00684	1.19538
6.73401	-16.58545	2.42700	-0.18093	-1.12687	0.91692	-0.00217	3.50099	0.22223	0.00659	1.20178
6.89180	-16.69877	2.43677	-0.17628	-1.12724	0.91891	-0.00216	3.49431	0.22304	0.00633	1.20846
7.05716	-16.80562	2.44436	-0.17040	-1.12859	0.92147	-0.00215	3.49099	0.22399	0.00602	1.21566
7.22022	-16.92383	2.45534	-0.16516	-1.12927	0.92360	-0.00215	3.48393	0.22492	0.00575	1.22238
7.39098	-17.06011	2.47042	-0.16081	-1.12899	0.92522	-0.00213	3.47254	0.22576	0.00552	1.22876
7.56430	-17.17991	2.48195	-0.15677	-1.12884	0.92677	-0.00212	3.46459	0.22643	0.00530	1.23484
7.73994	-17.27194	2.48684	-0.15120	-1.13034	0.92914	-0.00212	3.46428	0.22719	0.00502	1.24102
7.92393	-17.38119	2.49532	-0.14554	-1.13150	0.93140	-0.00211	3.46073	0.22803	0.00474	1.24682
8.11030	-17.50417	2.50732	-0.14052	-1.13199	0.93327	-0.00211	3.45381	0.22884	0.00449	1.25192
8.29876	-17.64185	2.52328	-0.13683	-1.13132	0.93445	-0.00209	3.44280	0.22948	0.00432	1.25618
8.49618	-17.75000	2.53206	-0.13273	-1.13157	0.93600	-0.00208	3.43839	0.23002	0.00412	1.26057
8.69565	-17.83150	2.53445	-0.12692	-1.13345	0.93838	-0.00208	3.44058	0.23072	0.00383	1.26535
8.90472	-17.93807	2.54230	-0.12136	-1.13464	0.94046	-0.00208	3.43816	0.23146	0.00357	1.26986
9.11577	-18.05368	2.55260	-0.11625	-1.13539	0.94227	-0.00207	3.43370	0.23217	0.00333	1.27412
9.32836	-18.19335	2.56905	-0.11243	-1.13491	0.94340	-0.00205	3.42414	0.23276	0.00317	1.27789
9.54198	-18.31415	2.58173	-0.10948	-1.13426	0.94427	-0.00204	3.41698	0.23312	0.00304	1.28171
9.76563	-18.38322	2.58167	-0.10437	-1.13605	0.94632	-0.00204	3.42030	0.23367	0.00278	1.28701
10.00000	-18.46618	2.58418	-0.09851	-1.13791	0.94852	-0.00204	3.42225	0.23433	0.00248	1.29310

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Low stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 152 - 305 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.58258	3.37509	-0.04209	-1.71477	1.06025	-0.00103	1.35435	0.44124	-0.00529	0.26164
PGV	1.21720	1.84384	-0.10922	-2.30624	1.36447	-0.00185	4.14462	0.38041	-0.00991	0.42188
PGA	-0.36942	1.49988	-0.06508	-2.36229	1.03103	-0.00221	2.86976	0.50409	-0.03355	0.75998
0.01000	0.04411	1.51682	-0.06297	-2.45369	1.03698	-0.00210	3.22070	0.49465	-0.01603	0.72174
0.01024	0.05352	1.51880	-0.06236	-2.45670	1.03355	-0.00208	3.21949	0.49555	-0.01615	0.72253
0.01048	0.06587	1.52078	-0.06175	-2.46027	1.03034	-0.00207	3.22067	0.49635	-0.01627	0.72332
0.01072	0.08133	1.52274	-0.06113	-2.46445	1.02735	-0.00206	3.22440	0.49704	-0.01641	0.72412
0.01097	0.09963	1.52471	-0.06052	-2.46915	1.02452	-0.00205	3.23047	0.49763	-0.01655	0.72492
0.01123	0.12017	1.52665	-0.05991	-2.47426	1.02179	-0.00204	3.23833	0.49814	-0.01670	0.72573
0.01150	0.14164	1.52857	-0.05929	-2.47951	1.01907	-0.00202	3.24661	0.49863	-0.01685	0.72650
0.01177	0.16339	1.53047	-0.05867	-2.48478	1.01630	-0.00201	3.25465	0.49911	-0.01700	0.72725
0.01205	0.18654	1.53236	-0.05802	-2.49031	1.01352	-0.00199	3.26341	0.49958	-0.01715	0.72797
0.01233	0.21225	1.53430	-0.05736	-2.49635	1.01077	-0.00198	3.27391	0.49998	-0.01731	0.72870
0.01262	0.24083	1.53628	-0.05667	-2.50296	1.00805	-0.00196	3.28653	0.50032	-0.01747	0.72944
0.01292	0.27145	1.53828	-0.05598	-2.50994	1.00528	-0.00195	3.30061	0.50061	-0.01764	0.73022
0.01322	0.30203	1.54024	-0.05529	-2.51685	1.00236	-0.00193	3.31421	0.50092	-0.01782	0.73101
0.01353	0.33318	1.54219	-0.05459	-2.52383	0.99944	-0.00192	3.32798	0.50122	-0.01800	0.73179
0.01385	0.36841	1.54417	-0.05390	-2.53159	0.99678	-0.00190	3.34568	0.50138	-0.01817	0.73257
0.01417	0.41009	1.54622	-0.05321	-2.54060	0.99439	-0.00188	3.36955	0.50134	-0.01835	0.73338
0.01451	0.45713	1.54838	-0.05249	-2.55068	0.99214	-0.00186	3.39778	0.50117	-0.01853	0.73420
0.01485	0.50518	1.55059	-0.05173	-2.56096	0.98985	-0.00184	3.42602	0.50103	-0.01871	0.73502
0.01520	0.55059	1.55275	-0.05097	-2.57066	0.98730	-0.00182	3.45114	0.50100	-0.01888	0.73588
0.01556	0.59482	1.55489	-0.05020	-2.58007	0.98454	-0.00180	3.47480	0.50103	-0.01907	0.73690
0.01592	0.64160	1.55707	-0.04942	-2.58995	0.98175	-0.00178	3.50040	0.50101	-0.01928	0.73816
0.01630	0.69342	1.55936	-0.04862	-2.60083	0.97903	-0.00176	3.53006	0.50088	-0.01953	0.73970
0.01668	0.75025	1.56175	-0.04780	-2.61270	0.97626	-0.00174	3.56365	0.50066	-0.01980	0.74146
0.01707	0.80844	1.56414	-0.04698	-2.62479	0.97330	-0.00172	3.59808	0.50043	-0.02008	0.74325
0.01748	0.86384	1.56647	-0.04614	-2.63624	0.97005	-0.00169	3.62928	0.50032	-0.02034	0.74503
0.01789	0.91571	1.56877	-0.04526	-2.64692	0.96627	-0.00167	3.65605	0.50038	-0.02062	0.74694
0.01831	0.96308	1.57107	-0.04432	-2.65666	0.96182	-0.00165	3.67730	0.50066	-0.02090	0.74890
0.01874	1.00786	1.57340	-0.04333	-2.66590	0.95720	-0.00163	3.69507	0.50106	-0.02117	0.75083
0.01918	1.05233	1.57572	-0.04232	-2.67507	0.95280	-0.00161	3.71198	0.50148	-0.02144	0.75268
0.01963	1.09509	1.57791	-0.04136	-2.68374	0.94832	-0.00159	3.72735	0.50194	-0.02169	0.75445
0.02009	1.13461	1.58002	-0.04041	-2.69162	0.94342	-0.00157	3.73908	0.50252	-0.02194	0.75618
0.02057	1.16954	1.58214	-0.03943	-2.69858	0.93797	-0.00156	3.74419	0.50335	-0.02217	0.75780
0.02105	1.20217	1.58432	-0.03841	-2.70507	0.93203	-0.00154	3.74513	0.50435	-0.02241	0.75947
0.02154	1.24201	1.58654	-0.03741	-2.71283	0.92602	-0.00152	3.75401	0.50513	-0.02271	0.76148
0.02205	1.28583	1.58870	-0.03645	-2.72110	0.91999	-0.00150	3.76906	0.50570	-0.02304	0.76377
0.02257	1.32932	1.59082	-0.03553	-2.72917	0.91404	-0.00148	3.78476	0.50626	-0.02336	0.76599
0.02310	1.38295	1.59317	-0.03464	-2.73922	0.90836	-0.00146	3.80977	0.50658	-0.02369	0.76828
0.02364	1.44302	1.59575	-0.03376	-2.75060	0.90269	-0.00144	3.83937	0.50680	-0.02403	0.77071
0.02420	1.49189	1.59822	-0.03287	-2.75978	0.89658	-0.00142	3.85634	0.50742	-0.02432	0.77274
0.02477	1.52282	1.60048	-0.03191	-2.76538	0.88970	-0.00141	3.85366	0.50864	-0.02451	0.77409
0.02535	1.54429	1.60273	-0.03082	-2.76920	0.88254	-0.00139	3.83924	0.51024	-0.02463	0.77500
0.02595	1.57706	1.60520	-0.02973	-2.77537	0.87604	-0.00138	3.83484	0.51154	-0.02476	0.77602
0.02656	1.62715	1.60782	-0.02875	-2.78496	0.87035	-0.00136	3.84764	0.51227	-0.02494	0.77742
0.02719	1.67586	1.61029	-0.02780	-2.79408	0.86427	-0.00134	3.86017	0.51300	-0.02516	0.77909
0.02783	1.70626	1.61240	-0.02683	-2.79930	0.85685	-0.00133	3.85648	0.51422	-0.02541	0.78103
0.02848	1.71350	1.61415	-0.02585	-2.79975	0.84857	-0.00132	3.83190	0.51608	-0.02566	0.78304
0.02915	1.69425	1.61567	-0.02482	-2.79503	0.84002	-0.00132	3.78173	0.51872	-0.02592	0.78511
0.02984	1.65390	1.61712	-0.02363	-2.78627	0.83091	-0.00133	3.70985	0.52211	-0.02620	0.78739
0.03054	1.61215	1.61849	-0.02240	-2.77701	0.82115	-0.00134	3.63736	0.52562	-0.02653	0.79017
0.03126	1.57982	1.61983	-0.02119	-2.76922	0.81124	-0.00134	3.57606	0.52884	-0.02698	0.79379
0.03199	1.56128	1.62138	-0.02000	-2.76400	0.80188	-0.00134	3.52879	0.53165	-0.02745	0.79776
0.03275	1.54986	1.62319	-0.01895	-2.76031	0.79333	-0.00135	3.48740	0.53430	-0.02782	0.80110
0.03352	1.53163	1.62496	-0.01804	-2.75546	0.78537	-0.00135	3.43919	0.53714	-0.02804	0.80348
0.03430	1.50258	1.62633	-0.01724	-2.74828	0.77710	-0.00136	3.38372	0.54019	-0.02816	0.80531
0.03511	1.45739	1.62719	-0.01640	-2.73752	0.76787	-0.00138	3.31755	0.54363	-0.02832	0.80741
0.03594	1.39273	1.62755	-0.01546	-2.72258	0.75801	-0.00139	3.23679	0.54763	-0.02858	0.81032
0.03678	1.32022	1.62750	-0.01460	-2.70585	0.74857	-0.00142	3.15197	0.55178	-0.02878	0.81284
0.03765	1.26101	1.62733	-0.01402	-2.69155	0.74037	-0.00144	3.08209	0.55535	-0.02873	0.81356
0.03854	1.21631	1.62731	-0.01357	-2.68004	0.73237	-0.00145	3.02680	0.55839	-0.02846	0.81270
0.03944	1.17839	1.62752	-0.01300	-2.66980	0.72334	-0.00147	2.97789	0.56131	-0.02818	0.81158
0.04037	1.14884	1.62786	-0.01232	-2.66111	0.71428	-0.00148	2.93617	0.56401	-0.02802	0.81122
0.04132	1.13574	1.62814	-0.01175	-2.65540	0.70679	-0.00149	2.91045	0.56598	-0.02799	0.81177
0.04229	1.12046	1.62795	-0.01138	-2.64865	0.69972	-0.00150	2.88702	0.56779	-0.02806	0.81309
0.04329	1.06008	1.62709	-0.01100	-2.63264	0.69056	-0.00152	2.82840	0.57112	-0.02820	0.81503
0.04431	0.94606	1.62594	-0.01041	-2.60636	0.67945	-0.00156	2.72631	0.57650	-0.02840	0.81733
0.04535	0.80770	1.62516	-0.00952	-2.57608	0.66805	-0.00160	2.60436	0.58305	-0.02863	0.81987

0.04642	0.67466	1.62504	-0.00846	-2.54744	0.65645	-0.00164	2.48589	0.58984	-0.02895	0.82293
0.04751	0.54767	1.62523	-0.00735	-2.51997	0.64414	-0.00168	2.37268	0.59677	-0.02937	0.82668
0.04863	0.42577	1.62554	-0.00628	-2.49322	0.63175	-0.00172	2.26736	0.60365	-0.02989	0.83111
0.04977	0.31300	1.62590	-0.00529	-2.46816	0.62065	-0.00176	2.17437	0.61006	-0.03053	0.83619
0.05094	0.19964	1.62618	-0.00433	-2.44331	0.61181	-0.00180	2.08544	0.61629	-0.03111	0.84083
0.05214	0.07637	1.62616	-0.00333	-2.41690	0.60454	-0.00185	1.99328	0.62275	-0.03141	0.84358
0.05337	-0.05468	1.62578	-0.00230	-2.38909	0.59713	-0.00189	1.89925	0.62948	-0.03147	0.84470
0.05462	-0.19676	1.62512	-0.00121	-2.35919	0.58839	-0.00194	1.79994	0.63687	-0.03142	0.84512
0.05591	-0.35713	1.62361	-0.00003	-2.32534	0.57877	-0.00199	1.69097	0.64522	-0.03138	0.84574
0.05722	-0.52066	1.62073	0.00109	-2.28985	0.57024	-0.00204	1.58388	0.65368	-0.03144	0.84705
0.05857	-0.64921	1.61681	0.00179	-2.26004	0.56487	-0.00208	1.50214	0.66028	-0.03149	0.84844
0.05995	-0.73273	1.61238	0.00187	-2.23823	0.56189	-0.00212	1.44973	0.66446	-0.03138	0.84883
0.06136	-0.80032	1.60794	0.00161	-2.21919	0.55848	-0.00215	1.40841	0.66782	-0.03108	0.84806
0.06280	-0.87178	1.60395	0.00108	-2.19933	0.55285	-0.00218	1.36680	0.67150	-0.03074	0.84707
0.06428	-0.95423	1.60037	0.00043	-2.17731	0.54433	-0.00220	1.32048	0.67599	-0.03045	0.84652
0.06579	-1.04269	1.59732	-0.00003	-2.15442	0.53363	-0.00222	1.27085	0.68120	-0.03021	0.84636
0.06734	-1.12768	1.59504	-0.00012	-2.13277	0.52348	-0.00225	1.22404	0.68646	-0.02993	0.84603
0.06893	-1.21456	1.59374	0.00019	-2.11173	0.51616	-0.00228	1.17843	0.69184	-0.02955	0.84497
0.07055	-1.30930	1.59313	0.00071	-2.09036	0.51187	-0.00232	1.13030	0.69759	-0.02901	0.84269
0.07221	-1.41518	1.59180	0.00126	-2.06688	0.50938	-0.00237	1.07708	0.70386	-0.02824	0.83849
0.07391	-1.53795	1.58846	0.00184	-2.03877	0.50706	-0.00242	1.01580	0.71107	-0.02736	0.83345
0.07565	-1.66902	1.58317	0.00223	-2.00728	0.50295	-0.00247	0.95163	0.71890	-0.02680	0.83050
0.07743	-1.77297	1.57723	0.00211	-1.97985	0.49892	-0.00251	0.90292	0.72503	-0.02659	0.82984
0.07925	-1.82852	1.57209	0.00152	-1.96198	0.49865	-0.00255	0.87871	0.72790	-0.02644	0.82975
0.08111	-1.86214	1.56746	0.00076	-1.94893	0.50073	-0.00258	0.86453	0.72929	-0.02645	0.83094
0.08302	-1.90995	1.56241	0.00012	-1.93308	0.50273	-0.00262	0.84387	0.73157	-0.02678	0.83445
0.08498	-1.98327	1.55760	-0.00015	-1.91266	0.50541	-0.00266	0.81332	0.73548	-0.02714	0.83821
0.08697	-2.07537	1.55360	-0.00011	-1.88952	0.50896	-0.00272	0.77632	0.74073	-0.02739	0.84095
0.08902	-2.16686	1.55011	-0.00028	-1.86710	0.51243	-0.00278	0.74060	0.74610	-0.02763	0.84335
0.09112	-2.24436	1.54679	-0.00094	-1.84778	0.51550	-0.00282	0.71149	0.75054	-0.02786	0.84561
0.09326	-2.31361	1.54327	-0.00191	-1.83013	0.51849	-0.00286	0.68635	0.75433	-0.02809	0.84808
0.09545	-2.38873	1.53881	-0.00283	-1.81052	0.52049	-0.00290	0.65866	0.75868	-0.02826	0.85060
0.09770	-2.46066	1.53296	-0.00380	-1.78990	0.52276	-0.00295	0.63211	0.76288	-0.02815	0.85168
0.10000	-2.51253	1.52630	-0.00513	-1.77194	0.52724	-0.00299	0.61376	0.76541	-0.02770	0.85060
0.10235	-2.54739	1.51935	-0.00694	-1.75662	0.53273	-0.00304	0.60246	0.76646	-0.02713	0.84898
0.10476	-2.57786	1.51244	-0.00903	-1.74194	0.53738	-0.00308	0.59366	0.76707	-0.02667	0.84858
0.10723	-2.60898	1.50689	-0.01100	-1.72833	0.54199	-0.00311	0.58561	0.76774	-0.02612	0.84786
0.10975	-2.63654	1.50353	-0.01267	-1.71758	0.54789	-0.00315	0.57907	0.76839	-0.02522	0.84477
0.11233	-2.66916	1.50110	-0.01399	-1.70719	0.55273	-0.00319	0.56911	0.76993	-0.02408	0.83998
0.11498	-2.72456	1.49758	-0.01494	-1.69240	0.55380	-0.00321	0.54807	0.77380	-0.02295	0.83491
0.11768	-2.80128	1.49209	-0.01579	-1.67252	0.55167	-0.00323	0.51775	0.77970	-0.02202	0.83082
0.12045	-2.87850	1.48528	-0.01687	-1.65134	0.55038	-0.00324	0.48815	0.78555	-0.02143	0.82877
0.12328	-2.94257	1.47882	-0.01817	-1.63268	0.55229	-0.00326	0.46531	0.78999	-0.02102	0.82792
0.12619	-2.99769	1.47336	-0.01967	-1.61629	0.55405	-0.00329	0.44732	0.79355	-0.02046	0.82623
0.12916	-3.04689	1.46828	-0.02169	-1.60089	0.55241	-0.00330	0.43263	0.79654	-0.01976	0.82353
0.13219	-3.08217	1.46318	-0.02445	-1.58775	0.54878	-0.00330	0.42347	0.79807	-0.01919	0.82126
0.13531	-3.09480	1.45821	-0.02777	-1.57932	0.54753	-0.00330	0.42212	0.79706	-0.01889	0.82003
0.13849	-3.08981	1.45360	-0.03120	-1.57536	0.55212	-0.00330	0.42664	0.79392	-0.01860	0.81835
0.14175	-3.07415	1.44964	-0.03450	-1.57467	0.56248	-0.00331	0.43473	0.78952	-0.01809	0.81487
0.14508	-3.05346	1.44627	-0.03779	-1.57546	0.57538	-0.00333	0.44468	0.78473	-0.01731	0.80967
0.14850	-3.03655	1.44212	-0.04121	-1.57424	0.58777	-0.00334	0.45344	0.78039	-0.01645	0.80412
0.15199	-3.02072	1.43609	-0.04489	-1.57060	0.60057	-0.00337	0.46201	0.77588	-0.01568	0.79941
0.15557	-2.99535	1.42891	-0.04888	-1.56798	0.61550	-0.00339	0.47440	0.76995	-0.01504	0.79552
0.15923	-2.96499	1.42191	-0.05303	-1.56729	0.63181	-0.00341	0.48911	0.76319	-0.01450	0.79235
0.16298	-2.94138	1.41560	-0.05704	-1.56674	0.64829	-0.00343	0.50158	0.75698	-0.01399	0.78973
0.16681	-2.92678	1.40989	-0.06069	-1.56546	0.66396	-0.00345	0.51034	0.75186	-0.01343	0.78699
0.17074	-2.92343	1.40476	-0.06387	-1.56262	0.67744	-0.00346	0.51433	0.74823	-0.01262	0.78254
0.17475	-2.94126	1.40016	-0.06657	-1.55594	0.68627	-0.00346	0.50978	0.74710	-0.01137	0.77499
0.17887	-2.98101	1.39547	-0.06921	-1.54447	0.68898	-0.00346	0.49655	0.74846	-0.00991	0.76577
0.18307	-3.02211	1.39015	-0.07233	-1.53167	0.68805	-0.00346	0.48330	0.74987	-0.00862	0.75764
0.18738	-3.04333	1.38428	-0.07606	-1.52199	0.68784	-0.00345	0.47889	0.74875	-0.00771	0.75233
0.19179	-3.04718	1.37799	-0.08005	-1.51524	0.68984	-0.00344	0.48237	0.74527	-0.00725	0.75043
0.19631	-3.05082	1.37148	-0.08393	-1.50846	0.69262	-0.00344	0.48635	0.74152	-0.00725	0.75171
0.20092	-3.06294	1.36552	-0.08753	-1.50073	0.69550	-0.00344	0.48708	0.73874	-0.00767	0.75568
0.20565	-3.08694	1.36152	-0.09072	-1.49244	0.69961	-0.00344	0.48419	0.73739	-0.00818	0.76042
0.21049	-3.12848	1.36016	-0.09351	-1.48291	0.70646	-0.00347	0.47679	0.73785	-0.00837	0.76337
0.21544	-3.18770	1.36168	-0.09602	-1.47267	0.71740	-0.00351	0.46538	0.73992	-0.00798	0.76270
0.22051	-3.24384	1.36547	-0.09861	-1.46571	0.73179	-0.00356	0.45727	0.74133	-0.00703	0.75832
0.22570	-3.26905	1.36924	-0.10189	-1.46528	0.74601	-0.00359	0.46141	0.73916	-0.00590	0.75269
0.23101	-3.25089	1.37095	-0.10625	-1.47128	0.75778	-0.00359	0.48211	0.73214	-0.00503	0.74876
0.23645	-3.19998	1.37027	-0.11151	-1.48095	0.76740	-0.00357	0.51667	0.72153	-0.00453	0.74729
0.24201	-3.14318	1.36814	-0.11692	-1.48995	0.77460	-0.00355	0.55550	0.71041	-0.00429	0.74783
0.24771	-3.11445	1.36595	-0.12151	-1.49330	0.77760	-0.00352	0.58360	0.70238	-0.00419	0.74951
0.25354	-3.13560	1.36416	-0.12494	-1.48747	0.77574	-0.00351	0.58968	0.69943	-0.00398	0.75065
0.25950	-3.19609	1.36197	-0.12769	-1.47378	0.77089	-0.00350	0.57775	0.70025	-0.00356	0.75046
0.26561	-3.26244	1.35840	-0.13060	-1.45780	0.76560	-0.00349	0.56272	0.70141	-0.00317	0.75043
0.27186	-3.30593	1.35369	-0.13425	-1.44560	0.76129	-0.00347	0.55754	0.69998	-0.00303	0.75191
0.27826	-3.32204	1.34874	-0.13875	-1.43922	0.75823	-0.00343	0.56470	0.69543	-0.00301	0.75420
0.28480	-3.32207	1.34488	-0.14375	-1.43799	0.75784	-0.00339	0.57971	0.68907	-0.00285	0.75546
0.29150	-3.32233	1.34336	-0.14851	-1.44000	0.76184	-0.00335	0.59501	0.68290	-0.00243	0.75482
0.29836	-3.33540	1.34392	-0.15251	-1.44224	0.76883	-0.00333	0.60365	0.67847	-0.00193	0.75335

0.30539	-3.37090	1.34517	-0.15580	-1.44065	0.77452	-0.00332	0.60032	0.67680	-0.00149	0.75199
0.31257	-3.43110	1.34609	-0.15874	-1.43299	0.77636	-0.00331	0.58430	0.67809	-0.00110	0.75105
0.31993	-3.50860	1.34712	-0.16158	-1.42095	0.77575	-0.00332	0.56093	0.68145	-0.00075	0.75069
0.32745	-3.59296	1.34929	-0.16445	-1.40776	0.77578	-0.00334	0.53773	0.68537	-0.00037	0.75035
0.33517	-3.67880	1.35256	-0.16743	-1.39493	0.77856	-0.00337	0.51797	0.68886	0.00009	0.74930
0.34304	-3.76289	1.35604	-0.17057	-1.38271	0.78435	-0.00342	0.50166	0.69147	0.00058	0.74752
0.35112	-3.84247	1.35870	-0.17400	-1.37097	0.79218	-0.00346	0.48829	0.69296	0.00102	0.74559
0.35938	-3.91316	1.35996	-0.17782	-1.36013	0.80073	-0.00349	0.47806	0.69316	0.00134	0.74430
0.36784	-3.96673	1.36044	-0.18205	-1.35265	0.80976	-0.00351	0.47438	0.69123	0.00163	0.74329
0.37649	-3.99758	1.36101	-0.18664	-1.35074	0.81827	-0.00351	0.48009	0.68660	0.00203	0.74172
0.38536	-4.00588	1.36206	-0.19164	-1.35468	0.82474	-0.00347	0.49603	0.67930	0.00255	0.73946
0.39442	-3.99678	1.36376	-0.19691	-1.36339	0.82888	-0.00342	0.52112	0.66994	0.00317	0.73678
0.40370	-3.97600	1.36626	-0.20233	-1.37556	0.83244	-0.00336	0.55463	0.65902	0.00383	0.73432
0.41321	-3.95636	1.36940	-0.20769	-1.38823	0.83639	-0.00330	0.59100	0.64805	0.00442	0.73257
0.42292	-3.95506	1.37270	-0.21278	-1.39735	0.83929	-0.00325	0.62070	0.63886	0.00491	0.73140
0.43288	-3.97632	1.37584	-0.21766	-1.40176	0.83945	-0.00321	0.64057	0.63171	0.00531	0.73065
0.44307	-4.01952	1.37842	-0.22237	-1.40127	0.83548	-0.00317	0.64905	0.62665	0.00560	0.73056
0.45349	-4.07759	1.38022	-0.22694	-1.39710	0.82811	-0.00311	0.64862	0.62315	0.00563	0.73234
0.46417	-4.14090	1.38173	-0.23130	-1.39156	0.82015	-0.00306	0.64500	0.62024	0.00522	0.73746
0.47508	-4.20885	1.38375	-0.23532	-1.38544	0.81350	-0.00301	0.63945	0.61787	0.00439	0.74600
0.48626	-4.28366	1.38656	-0.23917	-1.37853	0.80872	-0.00297	0.63182	0.61613	0.00338	0.75629
0.49771	-4.36845	1.38998	-0.24308	-1.36997	0.80522	-0.00295	0.62119	0.61511	0.00253	0.76566
0.50942	-4.46484	1.39369	-0.24708	-1.35912	0.80190	-0.00294	0.60666	0.61489	0.00195	0.77308
0.52140	-4.57218	1.39721	-0.25111	-1.34557	0.79802	-0.00295	0.58845	0.61534	0.00154	0.77921
0.53367	-4.68153	1.40022	-0.25527	-1.33083	0.79480	-0.00297	0.57137	0.61543	0.00119	0.78495
0.54624	-4.77819	1.40265	-0.25972	-1.31792	0.79463	-0.00299	0.56344	0.61340	0.00080	0.79116
0.55910	-4.85701	1.40457	-0.26448	-1.30820	0.79849	-0.00301	0.56782	0.60841	0.00039	0.79776
0.57225	-4.92628	1.40613	-0.26938	-1.30033	0.80487	-0.00304	0.58068	0.60124	0.00010	0.80359
0.58569	-4.99818	1.40755	-0.27418	-1.29214	0.81084	-0.00306	0.59503	0.59343	0.00004	0.80787
0.59948	-5.07854	1.40926	-0.27871	-1.28306	0.81496	-0.00307	0.60634	0.58609	0.00017	0.81075
0.61357	-5.16855	1.41164	-0.28290	-1.27325	0.81675	-0.00308	0.61214	0.57991	0.00044	0.81255
0.62802	-5.27198	1.41499	-0.28680	-1.26223	0.81606	-0.00309	0.60974	0.57541	0.00090	0.81310
0.64280	-5.38744	1.41935	-0.29051	-1.25029	0.81334	-0.00309	0.60072	0.57225	0.00157	0.81215
0.65794	-5.50870	1.42464	-0.29415	-1.23862	0.80973	-0.00309	0.59000	0.56939	0.00235	0.81043
0.67340	-5.62565	1.43079	-0.29774	-1.22934	0.80688	-0.00309	0.58399	0.56561	0.00304	0.80935
0.68927	-5.73433	1.43777	-0.30138	-1.22332	0.80534	-0.00309	0.58557	0.56035	0.00361	0.80929
0.70547	-5.83326	1.44550	-0.30507	-1.22075	0.80536	-0.00308	0.59602	0.55345	0.00415	0.80960
0.72207	-5.92248	1.45403	-0.30888	-1.22160	0.80738	-0.00307	0.61665	0.54472	0.00476	0.80944
0.73910	-6.00455	1.46332	-0.31279	-1.22516	0.81131	-0.00305	0.64750	0.53434	0.00558	0.80771
0.75649	-6.08073	1.47316	-0.31677	-1.23074	0.81642	-0.00303	0.68930	0.52242	0.00673	0.80315
0.77429	-6.15344	1.48318	-0.32084	-1.23737	0.82166	-0.00301	0.74122	0.50938	0.00831	0.79486
0.79246	-6.22031	1.49295	-0.32496	-1.24487	0.82711	-0.00298	0.80449	0.49538	0.01017	0.78329
0.81116	-6.28027	1.50228	-0.32914	-1.25321	0.83319	-0.00295	0.88090	0.48051	0.01213	0.76980
0.83022	-6.33217	1.51107	-0.33326	-1.26221	0.83953	-0.00292	0.96981	0.46531	0.01397	0.75619
0.84976	-6.37694	1.51970	-0.33724	-1.27209	0.84578	-0.00289	1.07146	0.45013	0.01554	0.74370
0.86972	-6.41669	1.52844	-0.34100	-1.28263	0.85126	-0.00285	1.18292	0.43556	0.01684	0.73300
0.89023	-6.45520	1.53748	-0.34457	-1.29328	0.85546	-0.00280	1.30021	0.42205	0.01797	0.72386
0.91116	-6.49256	1.54671	-0.34801	-1.30376	0.85873	-0.00275	1.41953	0.40989	0.01900	0.71637
0.93257	-6.52910	1.55600	-0.35140	-1.31387	0.86170	-0.00270	1.53717	0.39925	0.01989	0.71102
0.95456	-6.56635	1.56532	-0.35476	-1.32318	0.86445	-0.00265	1.64803	0.39034	0.02049	0.70873
0.97704	-6.60501	1.57469	-0.35810	-1.33144	0.86689	-0.00260	1.74786	0.38324	0.02072	0.71012
1.00000	-6.64783	1.58420	-0.36137	-1.33814	0.86853	-0.00255	1.83163	0.37800	0.02056	0.71518
1.02354	-6.69777	1.59396	-0.36457	-1.34284	0.86883	-0.00251	1.89543	0.37454	0.02006	0.72335
1.04767	-6.75614	1.60397	-0.36772	-1.34533	0.86742	-0.00246	1.93749	0.37273	0.01933	0.73371
1.07227	-6.82416	1.61407	-0.37081	-1.34524	0.86395	-0.00242	1.95595	0.37246	0.01850	0.74515
1.09745	-6.90259	1.62413	-0.37389	-1.34240	0.85824	-0.00238	1.95073	0.37361	0.01765	0.75691
1.12334	-6.99103	1.63405	-0.37701	-1.33687	0.85037	-0.00233	1.92304	0.37609	0.01684	0.76854
1.14982	-7.08757	1.64373	-0.38014	-1.32899	0.84070	-0.00229	1.87615	0.37975	0.01608	0.77966
1.17675	-7.19126	1.65308	-0.38327	-1.31892	0.82956	-0.00225	1.81293	0.38445	0.01540	0.78998
1.20453	-7.30169	1.66226	-0.38648	-1.30696	0.81740	-0.00221	1.73793	0.38999	0.01479	0.79943
1.23289	-7.41539	1.67120	-0.38969	-1.29381	0.80503	-0.00218	1.65819	0.39593	0.01426	0.80768
1.26183	-7.53156	1.67990	-0.39290	-1.27969	0.79295	-0.00215	1.57754	0.40200	0.01380	0.81462
1.29149	-7.65080	1.68838	-0.39610	-1.26457	0.78147	-0.00212	1.49708	0.40807	0.01342	0.82030
1.32188	-7.77317	1.69656	-0.39930	-1.24844	0.77074	-0.00211	1.41760	0.41404	0.01314	0.82469
1.35300	-7.89939	1.70441	-0.40248	-1.23119	0.76069	-0.00210	1.33853	0.41993	0.01298	0.82773
1.38485	-8.02769	1.71198	-0.40567	-1.21335	0.75173	-0.00209	1.26218	0.42558	0.01300	0.82944
1.41743	-8.15706	1.71934	-0.40882	-1.19536	0.74439	-0.00210	1.19021	0.43082	0.01320	0.82992
1.45075	-8.28657	1.72656	-0.41188	-1.17759	0.73900	-0.00211	1.12404	0.43547	0.01359	0.82936
1.48500	-8.41533	1.73375	-0.41488	-1.16046	0.73588	-0.00213	1.06562	0.43924	0.01415	0.82802
1.51999	-8.54194	1.74097	-0.41774	-1.14442	0.73521	-0.00217	1.01644	0.44188	0.01483	0.82630
1.55569	-8.66714	1.74835	-0.42035	-1.12954	0.73677	-0.00220	0.97594	0.44334	0.01557	0.82471
1.59236	-8.79250	1.75603	-0.42269	-1.11578	0.74029	-0.00225	0.94312	0.44360	0.01632	0.82374
1.62973	-8.91580	1.76405	-0.42477	-1.10371	0.74572	-0.00230	0.92010	0.44235	0.01702	0.82372
1.66806	-9.03885	1.77254	-0.42658	-1.09319	0.75246	-0.00235	0.90619	0.43954	0.01768	0.82479
1.70736	-9.16404	1.78150	-0.42809	-1.08379	0.75950	-0.00240	0.89937	0.43537	0.01828	0.82694
1.74764	-9.29158	1.79093	-0.42928	-1.07553	0.76641	-0.00246	0.90044	0.42972	0.01885	0.83014
1.78859	-9.41912	1.80074	-0.43009	-1.06874	0.77332	-0.00251	0.91229	0.42230	0.01936	0.83434
1.83083	-9.54715	1.81106	-0.43054	-1.06358	0.78081	-0.00255	0.93833	0.41273	0.01985	0.83939
1.87371	-9.67295	1.82166	-0.43061	-1.06018	0.78900	-0.00260	0.98055	0.40112	0.02035	0.84483
1.91791	-9.79798	1.83265	-0.43030	-1.05844	0.79790	-0.00264	1.04155	0.38738	0.02091	0.85035
1.96309	-9.92095	1.84380	-0.42956	-1.05825	0.80709	-0.00268	1.12250	0.37191	0.02152	0.85568

2.00924	-10.04206	1.85499	-0.42839	-1.05931	0.81647	-0.00271	1.22385	0.35516	0.02216	0.86070
2.05634	-10.16177	1.86620	-0.42678	-1.06142	0.82577	-0.00274	1.34504	0.33770	0.02284	0.86513
2.10482	-10.28095	1.87752	-0.42471	-1.06456	0.83497	-0.00277	1.48726	0.31982	0.02359	0.86867
2.15424	-10.39748	1.88878	-0.42220	-1.06880	0.84432	-0.00279	1.65033	0.30200	0.02442	0.87103
2.20507	-10.51097	1.90003	-0.41927	-1.07436	0.85427	-0.00280	1.83769	0.28426	0.02529	0.87221
2.25683	-10.62043	1.91111	-0.41599	-1.08099	0.86457	-0.00281	2.04573	0.26716	0.02618	0.87244
2.31000	-10.72791	1.92209	-0.41242	-1.08835	0.87484	-0.00281	2.27171	0.25091	0.02703	0.87205
2.36463	-10.83535	1.93296	-0.40859	-1.09588	0.88430	-0.00281	2.50887	0.23579	0.02783	0.87126
2.42014	-10.94376	1.94369	-0.40459	-1.10300	0.89251	-0.00281	2.74672	0.22219	0.02857	0.87014
2.47709	-11.05498	1.95439	-0.40040	-1.10955	0.89975	-0.00280	2.98263	0.20994	0.02926	0.86873
2.53550	-11.16999	1.96504	-0.39605	-1.11520	0.90602	-0.00279	3.21093	0.19903	0.02988	0.86722
2.59471	-11.28900	1.97560	-0.39163	-1.11953	0.91116	-0.00277	3.42123	0.18961	0.03043	0.86594
2.65604	-11.41462	1.98626	-0.38705	-1.12254	0.91519	-0.00276	3.61334	0.18142	0.03085	0.86533
2.71887	-11.54316	1.99690	-0.38242	-1.12465	0.91859	-0.00275	3.78679	0.17440	0.03110	0.86588
2.78242	-11.67232	2.00746	-0.37782	-1.12604	0.92137	-0.00274	3.93851	0.16855	0.03116	0.86782
2.84819	-11.80461	2.01815	-0.37318	-1.12683	0.92358	-0.00272	4.06986	0.16372	0.03103	0.87135
2.91545	-11.93876	2.02898	-0.36859	-1.12700	0.92530	-0.00271	4.17578	0.16000	0.03073	0.87656
2.98329	-12.07246	2.03969	-0.36409	-1.12661	0.92657	-0.00270	4.25465	0.15740	0.03030	0.88315
3.05344	-12.20888	2.05067	-0.35965	-1.12572	0.92747	-0.00269	4.31018	0.15571	0.02974	0.89098
3.12598	-12.34690	2.06176	-0.35521	-1.12456	0.92810	-0.00268	4.34581	0.15483	0.02908	0.89969
3.19898	-12.48254	2.07275	-0.35095	-1.12321	0.92847	-0.00267	4.36349	0.15464	0.02839	0.90860
3.27439	-12.61865	2.08385	-0.34668	-1.12186	0.92882	-0.00266	4.36855	0.15501	0.02766	0.91748
3.35121	-12.75285	2.09490	-0.34252	-1.12055	0.92925	-0.00265	4.36393	0.15580	0.02694	0.92595
3.43053	-12.88691	2.10602	-0.33832	-1.11938	0.92981	-0.00264	4.35179	0.15697	0.02621	0.93430
3.51124	-13.01893	2.11708	-0.33424	-1.11825	0.93045	-0.00263	4.33353	0.15839	0.02548	0.94261
3.59324	-13.14838	2.12791	-0.33016	-1.11732	0.93122	-0.00262	4.31070	0.16007	0.02475	0.95118
3.67782	-13.27846	2.13901	-0.32615	-1.11636	0.93206	-0.00261	4.28281	0.16194	0.02402	0.96045
3.76506	-13.40691	2.14978	-0.32203	-1.11566	0.93308	-0.00260	4.25282	0.16401	0.02328	0.97079
3.85356	-13.53562	2.16098	-0.31804	-1.11485	0.93406	-0.00259	4.21829	0.16619	0.02254	0.98196
3.94477	-13.66146	2.17156	-0.31394	-1.11432	0.93524	-0.00258	4.18383	0.16848	0.02181	0.99384
4.03714	-13.78848	2.18272	-0.30991	-1.11369	0.93635	-0.00257	4.14561	0.17087	0.02109	1.00600
4.13223	-13.91348	2.19345	-0.30585	-1.11317	0.93758	-0.00256	4.10803	0.17325	0.02040	1.01825
4.23012	-14.03905	2.20426	-0.30164	-1.11278	0.93889	-0.00256	4.06897	0.17575	0.01972	1.03029
4.32900	-14.16552	2.21565	-0.29761	-1.11217	0.94008	-0.00255	4.02839	0.17820	0.01907	1.04150
4.43066	-14.28708	2.22585	-0.29337	-1.11192	0.94150	-0.00254	3.99096	0.18064	0.01846	1.05203
4.53515	-14.41433	2.23733	-0.28911	-1.11147	0.94280	-0.00253	3.95002	0.18315	0.01786	1.06193
4.64253	-14.54050	2.24860	-0.28489	-1.11099	0.94411	-0.00252	3.91106	0.18554	0.01730	1.07110
4.75059	-14.66031	2.25865	-0.28048	-1.11086	0.94560	-0.00251	3.87511	0.18790	0.01677	1.07953
4.86145	-14.78845	2.27063	-0.27615	-1.11036	0.94685	-0.00250	3.83513	0.19031	0.01624	1.08741
4.97760	-14.91456	2.28180	-0.27176	-1.10994	0.94821	-0.00249	3.79794	0.19261	0.01574	1.09490
5.09424	-15.03453	2.29180	-0.26714	-1.10987	0.94970	-0.00249	3.76284	0.19491	0.01525	1.10189
5.21376	-15.16501	2.30425	-0.26264	-1.10934	0.95091	-0.00248	3.72357	0.19725	0.01477	1.10849
5.33618	-15.28984	2.31551	-0.25825	-1.10888	0.95218	-0.00247	3.68853	0.19939	0.01432	1.11475
5.46150	-15.40718	2.32491	-0.25350	-1.10888	0.95369	-0.00246	3.65646	0.20153	0.01386	1.12093
5.58971	-15.53676	2.33714	-0.24878	-1.10847	0.95492	-0.00245	3.61988	0.20376	0.01340	1.12704
5.72082	-15.66683	2.34968	-0.24435	-1.10782	0.95602	-0.00244	3.58530	0.20579	0.01297	1.13309
5.85823	-15.78310	2.35857	-0.23950	-1.10785	0.95755	-0.00243	3.55687	0.20772	0.01253	1.13952
5.99520	-15.90535	2.36919	-0.23457	-1.10773	0.95889	-0.00242	3.52568	0.20974	0.01210	1.14599
6.13497	-16.04021	2.38290	-0.22993	-1.10707	0.95988	-0.00241	3.49168	0.21173	0.01168	1.15246
6.28141	-16.16241	2.39348	-0.22536	-1.10672	0.96111	-0.00240	3.46440	0.21344	0.01129	1.15918
6.42674	-16.27013	2.40107	-0.22046	-1.10695	0.96262	-0.00240	3.44127	0.21510	0.01089	1.16599
6.57895	-16.39670	2.41256	-0.21538	-1.10678	0.96386	-0.00239	3.41270	0.21694	0.01049	1.17309
6.73401	-16.53556	2.42716	-0.21069	-1.10606	0.96474	-0.00238	3.38218	0.21871	0.01011	1.18014
6.89180	-16.64954	2.43636	-0.20624	-1.10588	0.96594	-0.00237	3.36096	0.22011	0.00977	1.18724
7.05716	-16.75457	2.44289	-0.20116	-1.10627	0.96750	-0.00236	3.34223	0.22155	0.00939	1.19473
7.22022	-16.87355	2.45321	-0.19615	-1.10626	0.96871	-0.00235	3.31940	0.22308	0.00903	1.20186
7.39098	-17.01399	2.46821	-0.19130	-1.10566	0.96954	-0.00234	3.29229	0.22469	0.00869	1.20882
7.56430	-17.13639	2.47958	-0.18705	-1.10522	0.97046	-0.00233	3.27200	0.22594	0.00839	1.21533
7.73994	-17.22550	2.48338	-0.18245	-1.10575	0.97197	-0.00232	3.26021	0.22697	0.00808	1.22162
7.92393	-17.33382	2.49100	-0.17738	-1.10607	0.97331	-0.00231	3.24346	0.22823	0.00775	1.22765
8.11030	-17.45879	2.50262	-0.17234	-1.10599	0.97435	-0.00230	3.22310	0.22959	0.00743	1.23310
8.29876	-17.60244	2.51896	-0.16778	-1.10529	0.97494	-0.00229	3.19969	0.23094	0.00716	1.23790
8.49618	-17.71173	2.52745	-0.16374	-1.10515	0.97592	-0.00228	3.18604	0.23186	0.00692	1.24253
8.69565	-17.78848	2.52850	-0.15925	-1.10594	0.97745	-0.00228	3.17906	0.23265	0.00663	1.24724
8.90472	-17.89399	2.53556	-0.15428	-1.10632	0.97870	-0.00227	3.16580	0.23369	0.00633	1.25189
9.11577	-18.01065	2.54543	-0.14934	-1.10647	0.97974	-0.00226	3.15050	0.23479	0.00605	1.25638
9.32836	-18.15693	2.56240	-0.14455	-1.10598	0.98030	-0.00224	3.12988	0.23603	0.00580	1.26063
9.54198	-18.28283	2.57556	-0.14084	-1.10543	0.98081	-0.00223	3.11498	0.23690	0.00561	1.26483
9.76563	-18.34628	2.57416	-0.13713	-1.10619	0.98219	-0.00223	3.11238	0.23737	0.00536	1.26998
10.00000	-18.42428	2.57535	-0.13257	-1.10699	0.98358	-0.00222	3.10676	0.23804	0.00508	1.27598

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Low stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 305 - 610 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.69725	3.37136	-0.04176	-1.68696	1.03373	-0.00100	1.21294	0.45366	-0.01196	0.29580
PGV	2.38364	1.91383	-0.11023	-2.61697	1.51344	-0.00151	6.40910	0.33125	-0.01951	0.47443
PGA	1.71762	1.53821	-0.07335	-2.81839	1.20583	-0.00170	5.36762	0.42806	-0.03462	0.76605
0.01000	2.33350	1.55716	-0.07143	-2.94786	1.21853	-0.00154	6.06215	0.41823	-0.02244	0.76056
0.01024	2.33439	1.55903	-0.07081	-2.94898	1.21401	-0.00154	6.04307	0.41939	-0.02257	0.76137
0.01048	2.34037	1.56090	-0.07018	-2.95107	1.20980	-0.00153	6.02992	0.42043	-0.02270	0.76220
0.01072	2.35110	1.56279	-0.06956	-2.95407	1.20583	-0.00151	6.02218	0.42135	-0.02285	0.76303
0.01097	2.36496	1.56468	-0.06893	-2.95767	1.20200	-0.00150	6.01767	0.42221	-0.02300	0.76387
0.01123	2.38081	1.56656	-0.06829	-2.96162	1.19824	-0.00149	6.01499	0.42302	-0.02315	0.76472
0.01150	2.39856	1.56842	-0.06765	-2.96591	1.19454	-0.00148	6.01416	0.42379	-0.02332	0.76556
0.01177	2.42084	1.57030	-0.06701	-2.97105	1.19102	-0.00146	6.01867	0.42446	-0.02349	0.76647
0.01205	2.44987	1.57223	-0.06637	-2.97749	1.18778	-0.00145	6.03126	0.42497	-0.02369	0.76746
0.01233	2.48270	1.57422	-0.06572	-2.98468	1.18473	-0.00143	6.04778	0.42541	-0.02389	0.76847
0.01262	2.51880	1.57624	-0.06505	-2.99252	1.18185	-0.00142	6.06760	0.42580	-0.02409	0.76941
0.01292	2.55789	1.57828	-0.06438	-3.00090	1.17902	-0.00140	6.09066	0.42612	-0.02428	0.77031
0.01322	2.59926	1.58031	-0.06372	-3.00967	1.17620	-0.00138	6.11617	0.42639	-0.02448	0.77124
0.01353	2.64222	1.58234	-0.06304	-3.01869	1.17331	-0.00136	6.14299	0.42665	-0.02469	0.77226
0.01385	2.69082	1.58442	-0.06237	-3.02877	1.17050	-0.00134	6.17620	0.42680	-0.02492	0.77335
0.01417	2.74738	1.58659	-0.06170	-3.04037	1.16787	-0.00132	6.21852	0.42681	-0.02514	0.77446
0.01451	2.80678	1.58884	-0.06099	-3.05256	1.16522	-0.00130	6.26247	0.42681	-0.02539	0.77571
0.01485	2.86323	1.59112	-0.06023	-3.06420	1.16233	-0.00128	6.30045	0.42693	-0.02566	0.77716
0.01520	2.91223	1.59331	-0.05944	-3.07437	1.15908	-0.00126	6.32808	0.42724	-0.02592	0.77865
0.01556	2.95806	1.59542	-0.05868	-3.08385	1.15567	-0.00124	6.35200	0.42760	-0.02616	0.78000
0.01592	3.01114	1.59760	-0.05793	-3.09466	1.15246	-0.00122	6.38555	0.42780	-0.02638	0.78126
0.01630	3.07041	1.59989	-0.05717	-3.10667	1.14931	-0.00120	6.42590	0.42790	-0.02660	0.78265
0.01668	3.13379	1.60228	-0.05635	-3.11947	1.14606	-0.00117	6.46937	0.42799	-0.02685	0.78426
0.01707	3.20208	1.60477	-0.05547	-3.13319	1.14275	-0.00115	6.51708	0.42803	-0.02713	0.78609
0.01748	3.26792	1.60725	-0.05456	-3.14639	1.13919	-0.00112	6.55988	0.42819	-0.02742	0.78810
0.01789	3.32319	1.60964	-0.05363	-3.15752	1.13520	-0.00110	6.58729	0.42861	-0.02773	0.79020
0.01831	3.36651	1.61192	-0.05270	-3.16631	1.13073	-0.00109	6.59801	0.42931	-0.02802	0.79225
0.01874	3.40281	1.61408	-0.05179	-3.17363	1.12581	-0.00107	6.59954	0.43017	-0.02825	0.79390
0.01918	3.44093	1.61624	-0.05090	-3.18125	1.12092	-0.00105	6.60355	0.43098	-0.02841	0.79508
0.01963	3.48833	1.61849	-0.05000	-3.19060	1.11637	-0.00103	6.61975	0.43160	-0.02856	0.79617
0.02009	3.54678	1.62082	-0.04911	-3.20195	1.11190	-0.00101	6.65023	0.43198	-0.02878	0.79767
0.02057	3.61296	1.62320	-0.04821	-3.21467	1.10730	-0.00099	6.68901	0.43226	-0.02907	0.79971
0.02105	3.68378	1.62564	-0.04734	-3.22825	1.10287	-0.00097	6.73195	0.43249	-0.02938	0.80179
0.02154	3.75329	1.62811	-0.04649	-3.24155	1.09848	-0.00094	6.77155	0.43277	-0.02965	0.80369
0.02205	3.82210	1.63061	-0.04563	-3.25464	1.09384	-0.00092	6.80924	0.43312	-0.02991	0.80556
0.02257	3.87974	1.63303	-0.04472	-3.26548	1.08846	-0.00090	6.83235	0.43373	-0.03019	0.80750
0.02310	3.92642	1.63536	-0.04377	-3.27422	1.08265	-0.00089	6.84048	0.43458	-0.03046	0.80943
0.02364	3.97480	1.63771	-0.04283	-3.28333	1.07701	-0.00087	6.84999	0.43540	-0.03074	0.81140
0.02420	4.01511	1.63995	-0.04192	-3.29075	1.07063	-0.00085	6.84923	0.43640	-0.03106	0.81358
0.02477	4.03355	1.64192	-0.04101	-3.29371	1.06270	-0.00084	6.82095	0.43789	-0.03138	0.81588
0.02535	4.03637	1.64382	-0.04002	-3.29357	1.05379	-0.00083	6.77118	0.43979	-0.03176	0.81848
0.02595	4.04050	1.64588	-0.03894	-3.29377	1.04513	-0.00082	6.71953	0.44177	-0.03218	0.82143
0.02656	4.06533	1.64816	-0.03784	-3.29785	1.03754	-0.00081	6.69274	0.44334	-0.03258	0.82422
0.02719	4.12424	1.65069	-0.03685	-3.30824	1.03090	-0.00079	6.70947	0.44420	-0.03285	0.82619
0.02783	4.18624	1.65331	-0.03591	-3.31925	1.02402	-0.00077	6.72878	0.44503	-0.03295	0.82714
0.02848	4.22670	1.65579	-0.03494	-3.32615	1.01612	-0.00076	6.72063	0.44632	-0.03303	0.82798
0.02915	4.24274	1.65794	-0.03396	-3.32821	1.00758	-0.00075	6.68531	0.44805	-0.03319	0.82955
0.02984	4.24089	1.65974	-0.03302	-3.32658	0.99892	-0.00075	6.63374	0.45002	-0.03346	0.83193
0.03054	4.21812	1.66138	-0.03205	-3.32076	0.98965	-0.00075	6.55875	0.45242	-0.03385	0.83520
0.03126	4.17565	1.66290	-0.03106	-3.31108	0.97975	-0.00076	6.45983	0.45529	-0.03428	0.83885
0.03199	4.14121	1.66423	-0.03024	-3.30265	0.97027	-0.00077	6.37467	0.45789	-0.03463	0.84214
0.03275	4.10776	1.66532	-0.02961	-3.29410	0.96045	-0.00078	6.29378	0.46042	-0.03487	0.84468
0.03352	4.05342	1.66617	-0.02899	-3.28141	0.94950	-0.00079	6.18838	0.46344	-0.03505	0.84692
0.03430	3.99586	1.66717	-0.02827	-3.26819	0.93855	-0.00081	6.07822	0.46663	-0.03523	0.84909
0.03511	3.95388	1.66851	-0.02751	-3.25803	0.92784	-0.00082	5.98514	0.46958	-0.03529	0.85053
0.03594	3.92538	1.66987	-0.02683	-3.25033	0.91695	-0.00082	5.90954	0.47222	-0.03528	0.85139
0.03678	3.89545	1.67108	-0.02621	-3.24234	0.90674	-0.00083	5.83591	0.47477	-0.03532	0.85261
0.03765	3.86013	1.67222	-0.02560	-3.23335	0.89725	-0.00084	5.75924	0.47735	-0.03547	0.85463
0.03854	3.82838	1.67323	-0.02500	-3.22466	0.88689	-0.00085	5.69086	0.47982	-0.03570	0.85734
0.03944	3.78317	1.67397	-0.02432	-3.21309	0.87516	-0.00086	5.61159	0.48255	-0.03596	0.86019
0.04037	3.70234	1.67458	-0.02341	-3.19495	0.86338	-0.00088	5.49377	0.48612	-0.03613	0.86240
0.04132	3.57668	1.67511	-0.02232	-3.16868	0.85211	-0.00091	5.32573	0.49083	-0.03623	0.86416
0.04229	3.42995	1.67553	-0.02124	-3.13849	0.84120	-0.00096	5.13705	0.49611	-0.03629	0.86570
0.04329	3.28907	1.67569	-0.02040	-3.10922	0.83126	-0.00100	4.96307	0.50110	-0.03624	0.86641
0.04431	3.15812	1.67525	-0.01991	-3.08126	0.82237	-0.00104	4.80837	0.50562	-0.03614	0.86675
0.04535	3.03571	1.67419	-0.01966	-3.05443	0.81432	-0.00109	4.66698	0.50979	-0.03613	0.86771

0.04642	2.91710	1.67275	-0.01948	-3.02807	0.80684	-0.00113	4.53334	0.51379	-0.03640	0.87040
0.04751	2.82071	1.67161	-0.01938	-3.00593	0.80040	-0.00116	4.42722	0.51716	-0.03684	0.87413
0.04863	2.75889	1.67111	-0.01940	-2.99049	0.79437	-0.00119	4.35737	0.51969	-0.03718	0.87698
0.04977	2.69276	1.67070	-0.01933	-2.97417	0.78760	-0.00122	4.28262	0.52245	-0.03745	0.87928
0.05094	2.57982	1.67000	-0.01890	-2.94897	0.78014	-0.00126	4.16272	0.52656	-0.03776	0.88194
0.05214	2.40334	1.66917	-0.01804	-2.91201	0.77061	-0.00132	3.97917	0.53277	-0.03801	0.88426
0.05337	2.18198	1.66823	-0.01692	-2.86671	0.75880	-0.00139	3.75317	0.54069	-0.03801	0.88514
0.05462	1.95874	1.66737	-0.01570	-2.82135	0.74816	-0.00146	3.53059	0.54890	-0.03775	0.88433
0.05591	1.75410	1.66641	-0.01452	-2.77968	0.73985	-0.00152	3.33177	0.55659	-0.03739	0.88273
0.05722	1.57792	1.66491	-0.01365	-2.74264	0.73171	-0.00158	3.16786	0.56329	-0.03711	0.88141
0.05857	1.43458	1.66284	-0.01325	-2.71096	0.72370	-0.00163	3.04267	0.56867	-0.03690	0.88040
0.05995	1.28541	1.66032	-0.01298	-2.67800	0.71507	-0.00168	2.91742	0.57416	-0.03660	0.87911
0.06136	1.08863	1.65742	-0.01231	-2.63631	0.70589	-0.00173	2.75748	0.58132	-0.03635	0.87843
0.06280	0.85730	1.65431	-0.01119	-2.58822	0.69799	-0.00181	2.57730	0.58976	-0.03627	0.87927
0.06428	0.64163	1.65119	-0.01006	-2.54282	0.69207	-0.00188	2.41521	0.59786	-0.03632	0.88107
0.06579	0.47268	1.64837	-0.00922	-2.50621	0.68919	-0.00196	2.29144	0.60441	-0.03640	0.88300
0.06734	0.34790	1.64592	-0.00876	-2.47784	0.68922	-0.00202	2.20342	0.60930	-0.03641	0.88457
0.06893	0.24275	1.64354	-0.00852	-2.45258	0.68840	-0.00208	2.13229	0.61355	-0.03626	0.88501
0.07055	0.12931	1.64093	-0.00820	-2.42534	0.68581	-0.00214	2.05690	0.61825	-0.03598	0.88439
0.07221	0.02022	1.63839	-0.00779	-2.39922	0.68488	-0.00220	1.98706	0.62265	-0.03580	0.88443
0.07391	-0.07272	1.63630	-0.00741	-2.37678	0.68560	-0.00225	1.93036	0.62629	-0.03572	0.88515
0.07565	-0.15864	1.63413	-0.00719	-2.35614	0.68683	-0.00230	1.87674	0.62969	-0.03554	0.88523
0.07743	-0.24468	1.63112	-0.00739	-2.33539	0.68887	-0.00235	1.82258	0.63296	-0.03522	0.88429
0.07925	-0.32318	1.62787	-0.00796	-2.31579	0.69177	-0.00240	1.77629	0.63569	-0.03476	0.88238
0.08111	-0.38561	1.62517	-0.00873	-2.29923	0.69432	-0.00244	1.74113	0.63786	-0.03407	0.87895
0.08302	-0.45630	1.62214	-0.00949	-2.28079	0.69354	-0.00247	1.69837	0.64071	-0.03341	0.87530
0.08498	-0.56707	1.61775	-0.00994	-2.25402	0.68892	-0.00251	1.62929	0.64550	-0.03290	0.87252
0.08697	-0.69401	1.61207	-0.01030	-2.22367	0.68384	-0.00254	1.55076	0.65103	-0.03246	0.87015
0.08902	-0.81091	1.60520	-0.01095	-2.19446	0.67938	-0.00257	1.47964	0.65599	-0.03211	0.86853
0.09112	-0.91895	1.59805	-0.01181	-2.16660	0.67571	-0.00260	1.41568	0.66052	-0.03187	0.86801
0.09326	-1.01855	1.59168	-0.01261	-2.14080	0.67432	-0.00264	1.35989	0.66461	-0.03166	0.86816
0.09545	-1.12113	1.58527	-0.01326	-2.11421	0.67368	-0.00268	1.30436	0.66886	-0.03160	0.86953
0.09770	-1.20438	1.57809	-0.01420	-2.09054	0.67443	-0.00272	1.26055	0.67195	-0.03163	0.87163
0.10000	-1.26037	1.57049	-0.01561	-2.07178	0.67725	-0.00275	1.23321	0.67324	-0.03139	0.87217
0.10235	-1.30765	1.56288	-0.01742	-2.05462	0.68069	-0.00278	1.21231	0.67384	-0.03081	0.87082
0.10476	-1.35443	1.55588	-0.01951	-2.03777	0.68473	-0.00282	1.19291	0.67442	-0.03021	0.86997
0.10723	-1.39753	1.54899	-0.02189	-2.02168	0.69007	-0.00286	1.17538	0.67483	-0.02992	0.87153
0.10975	-1.43265	1.54169	-0.02459	-2.00722	0.69430	-0.00288	1.16238	0.67468	-0.02981	0.87386
0.11233	-1.48878	1.53505	-0.02701	-1.98982	0.69566	-0.00290	1.13964	0.67575	-0.02949	0.87382
0.11498	-1.58949	1.53011	-0.02867	-1.96528	0.69377	-0.00293	1.09420	0.67993	-0.02885	0.87122
0.11768	-1.70682	1.52602	-0.03000	-1.93789	0.68844	-0.00296	1.04035	0.68572	-0.02807	0.86769
0.12045	-1.79442	1.52178	-0.03169	-1.91593	0.68263	-0.00298	1.00197	0.68986	-0.02712	0.86282
0.12328	-1.84260	1.51696	-0.03379	-1.90105	0.67947	-0.00298	0.98316	0.69139	-0.02603	0.85697
0.12619	-1.88499	1.51104	-0.03593	-1.88638	0.67864	-0.00299	0.96607	0.69237	-0.02487	0.85073
0.12916	-1.93548	1.50373	-0.03802	-1.86881	0.67759	-0.00301	0.94453	0.69364	-0.02346	0.84288
0.13219	-1.98665	1.49522	-0.04018	-1.84992	0.67690	-0.00302	0.92320	0.69470	-0.02202	0.83437
0.13531	-2.04765	1.48627	-0.04224	-1.82899	0.67752	-0.00305	0.89696	0.69637	-0.02108	0.82842
0.13849	-2.13091	1.47867	-0.04399	-1.80555	0.67806	-0.00307	0.85907	0.70006	-0.02054	0.82441
0.14175	-2.21512	1.47292	-0.04591	-1.78402	0.67968	-0.00310	0.82096	0.70423	-0.02011	0.82088
0.14508	-2.27500	1.46741	-0.04847	-1.76788	0.68382	-0.00311	0.79500	0.70653	-0.01984	0.81844
0.14850	-2.31611	1.46163	-0.05133	-1.75566	0.68866	-0.00312	0.77822	0.70719	-0.01953	0.81589
0.15199	-2.36177	1.45580	-0.05389	-1.74265	0.69354	-0.00313	0.76066	0.70794	-0.01883	0.81083
0.15557	-2.41961	1.44929	-0.05614	-1.72627	0.69983	-0.00315	0.73873	0.70934	-0.01788	0.80404
0.15923	-2.48801	1.44153	-0.05841	-1.70615	0.70548	-0.00318	0.71163	0.71158	-0.01703	0.79792
0.16298	-2.54974	1.43321	-0.06098	-1.68626	0.70931	-0.00320	0.68721	0.71345	-0.01645	0.79394
0.16681	-2.58299	1.42617	-0.06401	-1.67276	0.71428	-0.00322	0.67663	0.71308	-0.01613	0.79192
0.17074	-2.59969	1.42188	-0.06704	-1.66501	0.72100	-0.00323	0.67467	0.71166	-0.01599	0.79130
0.17475	-2.62618	1.42002	-0.06949	-1.65801	0.72673	-0.00324	0.66799	0.71174	-0.01585	0.79079
0.17887	-2.66170	1.41829	-0.07184	-1.64972	0.72946	-0.00324	0.65601	0.71299	-0.01566	0.79020
0.18307	-2.68709	1.41542	-0.07486	-1.64251	0.73184	-0.00324	0.64977	0.71278	-0.01554	0.79050
0.18738	-2.68814	1.41192	-0.07861	-1.63944	0.73930	-0.00324	0.65900	0.70906	-0.01560	0.79268
0.19179	-2.67342	1.40950	-0.08229	-1.64017	0.75326	-0.00326	0.68061	0.70301	-0.01593	0.79710
0.19631	-2.67352	1.40878	-0.08522	-1.63934	0.76805	-0.00329	0.69710	0.69845	-0.01651	0.80326
0.20092	-2.71118	1.40797	-0.08766	-1.63103	0.77641	-0.00332	0.69261	0.69802	-0.01718	0.80952
0.20565	-2.76320	1.40538	-0.09068	-1.61822	0.77880	-0.00333	0.67813	0.69923	-0.01751	0.81317
0.21049	-2.80191	1.40094	-0.09465	-1.60646	0.78034	-0.00334	0.66967	0.69884	-0.01743	0.81424
0.21544	-2.83427	1.39550	-0.09877	-1.59564	0.78200	-0.00334	0.66490	0.69729	-0.01710	0.81417
0.22051	-2.86013	1.39060	-0.10248	-1.58709	0.78393	-0.00333	0.66419	0.69493	-0.01645	0.81200
0.22570	-2.87626	1.38651	-0.10578	-1.58089	0.78553	-0.00331	0.66797	0.69204	-0.01538	0.80658
0.23101	-2.89952	1.38220	-0.10889	-1.57237	0.78337	-0.00329	0.66648	0.69044	-0.01398	0.79869
0.23645	-2.94056	1.37726	-0.11223	-1.55936	0.77432	-0.00326	0.65483	0.69084	-0.01270	0.79148
0.24201	-2.98098	1.37193	-0.11623	-1.54623	0.76174	-0.00322	0.64413	0.69090	-0.01193	0.78790
0.24771	-2.99372	1.36735	-0.12102	-1.53978	0.75333	-0.00318	0.64972	0.68756	-0.01153	0.78721
0.25354	-2.96498	1.36477	-0.12631	-1.54378	0.75351	-0.00314	0.68051	0.67958	-0.01107	0.78659
0.25950	-2.90836	1.36408	-0.13145	-1.55519	0.76015	-0.00310	0.73122	0.66875	-0.01037	0.78439
0.26561	-2.86494	1.36484	-0.13576	-1.56563	0.76544	-0.00306	0.77836	0.65961	-0.00965	0.78151
0.27186	-2.86892	1.36752	-0.13909	-1.56926	0.76466	-0.00302	0.79831	0.65567	-0.00900	0.77881
0.27826	-2.91444	1.37136	-0.14210	-1.56650	0.76167	-0.00299	0.79224	0.65592	-0.00845	0.77658
0.28480	-2.95646	1.37432	-0.14575	-1.56395	0.76351	-0.00298	0.78745	0.65533	-0.00801	0.77530
0.29150	-2.95220	1.37509	-0.15048	-1.56842	0.77360	-0.00297	0.81090	0.64935	-0.00755	0.77447
0.29836	-2.90550	1.37312	-0.15599	-1.57804	0.78886	-0.00296	0.86245	0.63858	-0.00683	0.77235

0.30539	-2.85830	1.36871	-0.16145	-1.58450	0.80156	-0.00295	0.91569	0.62776	-0.00587	0.76823
0.31257	-2.84999	1.36326	-0.16612	-1.58162	0.80461	-0.00293	0.94096	0.62133	-0.00486	0.76272
0.31993	-2.88945	1.35877	-0.16974	-1.57006	0.79815	-0.00289	0.93092	0.62026	-0.00417	0.75828
0.32745	-2.96240	1.35701	-0.17249	-1.55474	0.79019	-0.00286	0.89817	0.62300	-0.00407	0.75775
0.33517	-3.05098	1.35853	-0.17500	-1.54006	0.78770	-0.00285	0.85806	0.62735	-0.00430	0.76000
0.34304	-3.14308	1.36231	-0.17790	-1.52755	0.79129	-0.00287	0.82066	0.63150	-0.00430	0.76122
0.35112	-3.23600	1.36646	-0.18133	-1.51588	0.79744	-0.00289	0.78836	0.63465	-0.00380	0.75920
0.35938	-3.31522	1.36960	-0.18508	-1.50633	0.80365	-0.00291	0.76951	0.63532	-0.00303	0.75504
0.36784	-3.35928	1.37243	-0.18906	-1.50344	0.81124	-0.00292	0.77612	0.63186	-0.00242	0.75170
0.37649	-3.35919	1.37663	-0.19322	-1.51055	0.82206	-0.00292	0.81145	0.62451	-0.00225	0.75151
0.38536	-3.33038	1.38279	-0.19742	-1.52551	0.83521	-0.00290	0.86373	0.61565	-0.00245	0.75422
0.39442	-3.31490	1.38958	-0.20160	-1.53883	0.84664	-0.00288	0.90534	0.60888	-0.00260	0.75715
0.40370	-3.35271	1.39492	-0.20580	-1.54015	0.85095	-0.00287	0.90998	0.60691	-0.00258	0.75951
0.41321	-3.46319	1.39742	-0.20996	-1.52372	0.84427	-0.00287	0.86696	0.61094	-0.00256	0.76232
0.42292	-3.63389	1.39777	-0.21380	-1.49249	0.82954	-0.00288	0.79077	0.61986	-0.00255	0.76532
0.43288	-3.82108	1.39778	-0.21723	-1.45718	0.81478	-0.00291	0.71425	0.62972	-0.00255	0.76830
0.44307	-3.98264	1.39866	-0.22037	-1.42796	0.80543	-0.00294	0.66095	0.63653	-0.00266	0.77152
0.45349	-4.10996	1.40048	-0.22344	-1.40712	0.79958	-0.00296	0.63048	0.63963	-0.00285	0.77463
0.46417	-4.21720	1.40295	-0.22663	-1.39177	0.79376	-0.00295	0.61025	0.64093	-0.00300	0.77701
0.47508	-4.31597	1.40627	-0.23000	-1.37979	0.78962	-0.00294	0.59185	0.64199	-0.00285	0.77773
0.48626	-4.40699	1.41044	-0.23370	-1.37106	0.79058	-0.00293	0.57523	0.64268	-0.00219	0.77570
0.49771	-4.48582	1.41473	-0.23791	-1.36565	0.79610	-0.00293	0.56360	0.64207	-0.00108	0.77141
0.50942	-4.55408	1.41780	-0.24274	-1.36155	0.80170	-0.00293	0.55721	0.63979	0.00013	0.76687
0.52140	-4.61551	1.41863	-0.24810	-1.35654	0.80341	-0.00291	0.55495	0.63589	0.00109	0.76393
0.53367	-4.67460	1.41759	-0.25370	-1.34964	0.79979	-0.00288	0.55483	0.63111	0.00161	0.76421
0.54624	-4.74264	1.41571	-0.25923	-1.33927	0.79008	-0.00283	0.55072	0.62728	0.00161	0.76854
0.55910	-4.82272	1.41420	-0.26452	-1.32591	0.77569	-0.00278	0.54098	0.62515	0.00120	0.77630
0.57225	-4.90974	1.41416	-0.26961	-1.31198	0.76006	-0.00274	0.52993	0.62387	0.00079	0.78441
0.58569	-4.99444	1.41628	-0.27460	-1.30062	0.74744	-0.00270	0.52431	0.62178	0.00076	0.79009
0.59948	-5.07496	1.42034	-0.27963	-1.29258	0.73925	-0.00267	0.52542	0.61824	0.00122	0.79241
0.61357	-5.14907	1.42553	-0.28471	-1.28797	0.73492	-0.00265	0.53362	0.61286	0.00206	0.79188
0.62802	-5.22232	1.43093	-0.28972	-1.28473	0.73183	-0.00263	0.54583	0.60611	0.00307	0.78974
0.64280	-5.29815	1.43608	-0.29449	-1.28140	0.72772	-0.00261	0.55891	0.59880	0.00413	0.78681
0.65794	-5.37320	1.44125	-0.29903	-1.27867	0.72211	-0.00257	0.57374	0.59107	0.00527	0.78302
0.67340	-5.44949	1.44661	-0.30338	-1.27592	0.71477	-0.00252	0.58769	0.58379	0.00643	0.77885
0.68927	-5.52818	1.45239	-0.30751	-1.27291	0.70734	-0.00248	0.59926	0.57747	0.00735	0.77611
0.70547	-5.60762	1.45872	-0.31143	-1.26994	0.70187	-0.00244	0.60869	0.57216	0.00781	0.77617
0.72207	-5.68386	1.46590	-0.31525	-1.26819	0.70021	-0.00241	0.62017	0.56694	0.00784	0.77872
0.73910	-5.75661	1.47400	-0.31903	-1.26788	0.70352	-0.00240	0.63592	0.56130	0.00768	0.78209
0.75649	-5.82535	1.48257	-0.32287	-1.26876	0.71187	-0.00241	0.65758	0.55472	0.00757	0.78431
0.77429	-5.88385	1.49095	-0.32691	-1.27161	0.72391	-0.00243	0.68985	0.54627	0.00760	0.78469
0.79246	-5.92578	1.49872	-0.33122	-1.27745	0.73745	-0.00244	0.73820	0.53526	0.00778	0.78322
0.81116	-5.95216	1.50611	-0.33577	-1.28645	0.75196	-0.00245	0.80537	0.52178	0.00820	0.77963
0.83022	-5.96563	1.51347	-0.34041	-1.29846	0.76908	-0.00245	0.89148	0.50649	0.00892	0.77372
0.84976	-5.96849	1.52105	-0.34505	-1.31324	0.79057	-0.00245	0.99805	0.48980	0.00974	0.76682
0.86972	-5.96588	1.52853	-0.34955	-1.32908	0.81509	-0.00247	1.12149	0.47266	0.01032	0.76152
0.89023	-5.96764	1.53571	-0.35393	-1.34350	0.83896	-0.00248	1.25165	0.45629	0.01056	0.75894
0.91116	-5.98146	1.54256	-0.35817	-1.35474	0.85875	-0.00249	1.37616	0.44176	0.01064	0.75838
0.93257	-6.01331	1.54935	-0.36228	-1.36189	0.87286	-0.00249	1.48421	0.42964	0.01074	0.75862
0.95456	-6.06974	1.55642	-0.36614	-1.36407	0.88056	-0.00249	1.56308	0.42053	0.01094	0.75903
0.97704	-6.16087	1.56378	-0.36961	-1.35924	0.88026	-0.00249	1.59349	0.41533	0.01125	0.75952
1.00000	-6.28698	1.57130	-0.37267	-1.34727	0.87177	-0.00248	1.57416	0.41372	0.01158	0.76045
1.02354	-6.43599	1.57900	-0.37535	-1.33084	0.85761	-0.00246	1.52430	0.41423	0.01184	0.76236
1.04767	-6.59395	1.58698	-0.37765	-1.31310	0.84120	-0.00243	1.46677	0.41522	0.01199	0.76537
1.07227	-6.75467	1.59519	-0.37963	-1.29538	0.82444	-0.00241	1.41291	0.41571	0.01209	0.76909
1.09745	-6.91794	1.60362	-0.38139	-1.27785	0.80753	-0.00239	1.36530	0.41536	0.01228	0.77260
1.12334	-7.08677	1.61227	-0.38304	-1.25993	0.78963	-0.00236	1.32203	0.41417	0.01277	0.77458
1.14982	-7.26377	1.62091	-0.38463	-1.24088	0.76995	-0.00233	1.27916	0.41234	0.01361	0.77445
1.17675	-7.44262	1.62941	-0.38615	-1.22183	0.74974	-0.00230	1.24245	0.40941	0.01462	0.77307
1.20453	-7.61518	1.63795	-0.38762	-1.20489	0.73182	-0.00227	1.22370	0.40428	0.01559	0.77160
1.23289	-7.77062	1.64660	-0.38898	-1.19237	0.71985	-0.00225	1.23513	0.39603	0.01640	0.77055
1.26183	-7.90608	1.65548	-0.39018	-1.18498	0.71572	-0.00225	1.28288	0.38438	0.01709	0.76962
1.29149	-8.02476	1.66473	-0.39119	-1.18217	0.71953	-0.00226	1.36790	0.36973	0.01776	0.76813
1.32188	-8.13153	1.67431	-0.39198	-1.18274	0.72989	-0.00228	1.48800	0.35287	0.01845	0.76604
1.35300	-8.22928	1.68411	-0.39257	-1.18578	0.74499	-0.00230	1.64168	0.33457	0.01906	0.76421
1.38485	-8.32080	1.69399	-0.39300	-1.19033	0.76249	-0.00233	1.82417	0.31577	0.01948	0.76369
1.41743	-8.41127	1.70395	-0.39331	-1.19504	0.77986	-0.00236	2.02300	0.29764	0.01967	0.76514
1.45075	-8.50542	1.71417	-0.39351	-1.19897	0.79539	-0.00237	2.22189	0.28126	0.01971	0.76811
1.48500	-8.60663	1.72503	-0.39366	-1.20176	0.80866	-0.00239	2.40665	0.26724	0.01979	0.77149
1.51999	-8.71511	1.73661	-0.39378	-1.20334	0.81993	-0.00240	2.56510	0.25596	0.01999	0.77466
1.55569	-8.82898	1.74892	-0.39387	-1.20403	0.83000	-0.00241	2.69454	0.24726	0.02026	0.77795
1.59236	-8.94683	1.76199	-0.39392	-1.20411	0.83963	-0.00242	2.79671	0.24082	0.02055	0.78183
1.62973	-9.06690	1.77561	-0.39397	-1.20360	0.84886	-0.00243	2.87220	0.23639	0.02080	0.78652
1.66806	-9.18767	1.78975	-0.39405	-1.20278	0.85800	-0.00244	2.92725	0.23352	0.02095	0.79239
1.70736	-9.30796	1.80428	-0.39420	-1.20174	0.86712	-0.00246	2.96454	0.23195	0.02091	0.79999
1.74764	-9.42664	1.81903	-0.39445	-1.20053	0.87615	-0.00247	2.98663	0.23144	0.02064	0.80962
1.78859	-9.54299	1.83373	-0.39488	-1.19894	0.88461	-0.00249	2.99308	0.23184	0.02015	0.82109
1.83083	-9.65893	1.84846	-0.39554	-1.19678	0.89230	-0.00250	2.98387	0.23304	0.01946	0.83433
1.87371	-9.77122	1.86290	-0.39644	-1.19435	0.89909	-0.00251	2.96343	0.23483	0.01863	0.84876
1.91791	-9.88030	1.87721	-0.39756	-1.19192	0.90518	-0.00251	2.93656	0.23701	0.01769	0.86411
1.96309	-9.98457	1.89124	-0.39889	-1.18974	0.91053	-0.00252	2.90808	0.23935	0.01671	0.87959

2.00924	-10.08317	1.90496	-0.40037	-1.18805	0.91522	-0.00251	2.88345	0.24159	0.01577	0.89446
2.05634	-10.17639	1.91837	-0.40198	-1.18689	0.91923	-0.00251	2.86496	0.24359	0.01493	0.90805
2.10482	-10.26572	1.93153	-0.40371	-1.18613	0.92254	-0.00250	2.85406	0.24521	0.01424	0.92002
2.15424	-10.35206	1.94428	-0.40547	-1.18540	0.92510	-0.00248	2.84967	0.24635	0.01371	0.93004
2.20507	-10.43853	1.95670	-0.40725	-1.18419	0.92675	-0.00247	2.84840	0.24706	0.01329	0.93830
2.25683	-10.52554	1.96867	-0.40897	-1.18231	0.92747	-0.00246	2.84881	0.24737	0.01297	0.94504
2.31000	-10.61389	1.98035	-0.41061	-1.17985	0.92763	-0.00244	2.85222	0.24721	0.01273	0.95055
2.36463	-10.70436	1.99178	-0.41214	-1.17683	0.92749	-0.00243	2.85866	0.24656	0.01259	0.95488
2.42014	-10.79612	2.00289	-0.41348	-1.17345	0.92737	-0.00242	2.86995	0.24530	0.01259	0.95789
2.47709	-10.89061	2.01383	-0.41458	-1.16984	0.92750	-0.00242	2.88843	0.24329	0.01277	0.95954
2.53550	-10.98955	2.02454	-0.41543	-1.16569	0.92723	-0.00241	2.91271	0.24049	0.01313	0.95995
2.59471	-11.09301	2.03490	-0.41598	-1.16087	0.92618	-0.00241	2.93987	0.23701	0.01366	0.95946
2.65604	-11.20414	2.04510	-0.41622	-1.15522	0.92379	-0.00240	2.96990	0.23280	0.01432	0.95834
2.71887	-11.32011	2.05499	-0.41616	-1.14911	0.92007	-0.00239	3.00697	0.22776	0.01506	0.95718
2.78242	-11.43967	2.06451	-0.41576	-1.14266	0.91516	-0.00238	3.05034	0.22203	0.01582	0.95651
2.84819	-11.56605	2.07393	-0.41490	-1.13577	0.90901	-0.00236	3.10014	0.21562	0.01656	0.95679
2.91545	-11.69460	2.08320	-0.41362	-1.12913	0.90232	-0.00234	3.16279	0.20848	0.01727	0.95838
2.98329	-11.82417	2.09236	-0.41188	-1.12303	0.89541	-0.00232	3.23684	0.20094	0.01797	0.96099
3.05344	-11.95702	2.10171	-0.40971	-1.11736	0.88814	-0.00229	3.32149	0.19303	0.01866	0.96458
3.12598	-12.09492	2.11143	-0.40700	-1.11217	0.88057	-0.00226	3.41466	0.18500	0.01942	0.96852
3.19898	-12.23189	2.12118	-0.40393	-1.10781	0.87342	-0.00223	3.51463	0.17712	0.02021	0.97246
3.27439	-12.37288	2.13130	-0.40031	-1.10418	0.86667	-0.00220	3.62476	0.16921	0.02106	0.97586
3.35121	-12.51454	2.14159	-0.39628	-1.10132	0.86067	-0.00217	3.73920	0.16166	0.02192	0.97870
3.43053	-12.65995	2.15230	-0.39173	-1.09919	0.85568	-0.00214	3.85998	0.15444	0.02282	0.98088
3.51124	-12.80500	2.16309	-0.38689	-1.09768	0.85191	-0.00212	3.98212	0.14781	0.02366	0.98301
3.59324	-12.94961	2.17399	-0.38169	-1.09703	0.85011	-0.00210	4.10919	0.14178	0.02446	0.98499
3.67782	-13.09203	2.18496	-0.37631	-1.09723	0.85047	-0.00208	4.24542	0.13616	0.02512	0.98789
3.76506	-13.23459	2.19582	-0.37059	-1.09810	0.85311	-0.00207	4.38703	0.13119	0.02565	0.99167
3.85356	-13.37354	2.20662	-0.36497	-1.09921	0.85700	-0.00207	4.52471	0.12688	0.02596	0.99705
3.94477	-13.51441	2.21698	-0.35918	-1.09998	0.86169	-0.00208	4.64148	0.12377	0.02606	1.00358
4.03714	-13.65544	2.22748	-0.35347	-1.10032	0.86656	-0.00208	4.73472	0.12161	0.02595	1.01127
4.13223	-13.79674	2.23764	-0.34777	-1.10028	0.87126	-0.00209	4.79758	0.12065	0.02567	1.01976
4.23012	-13.94092	2.24790	-0.34191	-1.09993	0.87572	-0.00210	4.82913	0.12089	0.02524	1.02850
4.32900	-14.08235	2.25829	-0.33635	-1.09935	0.87985	-0.00211	4.83809	0.12177	0.02469	1.03733
4.43066	-14.22164	2.26781	-0.33071	-1.09877	0.88365	-0.00212	4.82310	0.12357	0.02404	1.04590
4.53515	-14.36263	2.27805	-0.32512	-1.09809	0.88725	-0.00212	4.79229	0.12584	0.02327	1.05457
4.64253	-14.50064	2.28803	-0.31974	-1.09743	0.89065	-0.00213	4.74945	0.12849	0.02245	1.06312
4.75059	-14.63337	2.29710	-0.31434	-1.09702	0.89395	-0.00214	4.69332	0.13176	0.02159	1.07124
4.86145	-14.76954	2.30748	-0.30905	-1.09642	0.89702	-0.00214	4.63017	0.13513	0.02067	1.07940
4.97760	-14.90373	2.31725	-0.30383	-1.09584	0.89979	-0.00214	4.56453	0.13862	0.01976	1.08736
5.09424	-15.03251	2.32609	-0.29856	-1.09546	0.90227	-0.00215	4.49495	0.14239	0.01887	1.09487
5.21376	-15.16756	2.33674	-0.29337	-1.09468	0.90440	-0.00215	4.42189	0.14610	0.01795	1.10237
5.33618	-15.29696	2.34646	-0.28840	-1.09396	0.90634	-0.00215	4.35507	0.14956	0.01711	1.10945
5.46150	-15.41982	2.35469	-0.28326	-1.09368	0.90831	-0.00215	4.29171	0.15310	0.01631	1.11626
5.58971	-15.55159	2.36514	-0.27807	-1.09296	0.90999	-0.00215	4.22471	0.15660	0.01549	1.12326
5.72082	-15.68275	2.37590	-0.27314	-1.09206	0.91150	-0.00214	4.16274	0.15976	0.01474	1.13020
5.85823	-15.80183	2.38368	-0.26807	-1.09197	0.91334	-0.00214	4.10959	0.16290	0.01405	1.13721
5.99520	-15.92483	2.39285	-0.26290	-1.09170	0.91501	-0.00214	4.05382	0.16605	0.01336	1.14438
6.13497	-16.05866	2.40468	-0.25782	-1.09080	0.91633	-0.00214	3.99479	0.16907	0.01268	1.15173
6.28141	-16.18113	2.41395	-0.25297	-1.09034	0.91786	-0.00213	3.94588	0.17179	0.01208	1.15908
6.42674	-16.28934	2.42062	-0.24809	-1.09057	0.91962	-0.00213	3.90388	0.17444	0.01152	1.16631
6.57895	-16.41476	2.43063	-0.24283	-1.09025	0.92113	-0.00213	3.85407	0.17726	0.01094	1.17401
6.73401	-16.55204	2.44350	-0.23769	-1.08926	0.92227	-0.00212	3.80153	0.17993	0.01037	1.18175
6.89180	-16.66576	2.45172	-0.23310	-1.08901	0.92371	-0.00212	3.76341	0.18217	0.00991	1.18926
7.05716	-16.77014	2.45747	-0.22823	-1.08944	0.92550	-0.00211	3.72944	0.18447	0.00944	1.19701
7.22022	-16.88764	2.46660	-0.22318	-1.08928	0.92692	-0.00211	3.68941	0.18683	0.00897	1.20451
7.39098	-17.02670	2.48007	-0.21788	-1.08836	0.92794	-0.00210	3.64241	0.18926	0.00850	1.21198
7.56430	-17.14871	2.49042	-0.21332	-1.08772	0.92905	-0.00210	3.60608	0.19124	0.00811	1.21884
7.73994	-17.23690	2.49376	-0.20910	-1.08832	0.93075	-0.00209	3.58350	0.19296	0.00775	1.22522
7.92393	-17.34368	2.50054	-0.20424	-1.08854	0.93227	-0.00209	3.55298	0.19496	0.00736	1.23143
8.11030	-17.46735	2.51107	-0.19908	-1.08821	0.93346	-0.00208	3.51652	0.19707	0.00697	1.23716
8.29876	-17.61101	2.52618	-0.19387	-1.08709	0.93418	-0.00207	3.47476	0.19918	0.00661	1.24235
8.49618	-17.72024	2.53407	-0.18972	-1.08682	0.93531	-0.00207	3.44889	0.20074	0.00632	1.24717
8.69565	-17.79502	2.53482	-0.18589	-1.08771	0.93702	-0.00207	3.43429	0.20209	0.00602	1.25185
8.90472	-17.89888	2.54119	-0.18119	-1.08796	0.93841	-0.00206	3.40898	0.20381	0.00569	1.25661
9.11577	-18.01449	2.55026	-0.17627	-1.08787	0.93957	-0.00206	3.37998	0.20561	0.00536	1.26126
9.32836	-18.16174	2.56624	-0.17078	-1.08690	0.94021	-0.00204	3.34152	0.20764	0.00504	1.26584
9.54198	-18.28929	2.57879	-0.16646	-1.08603	0.94082	-0.00203	3.31265	0.20915	0.00479	1.27029
9.76563	-18.35059	2.57725	-0.16351	-1.08689	0.94232	-0.00203	3.30527	0.21004	0.00456	1.27534
10.00000	-18.42603	2.57808	-0.15972	-1.08766	0.94381	-0.00203	3.29204	0.21124	0.00427	1.28126

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Frankel et al. (1996) model
Low stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 610 - 1220 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-7.59287	3.37353	-0.04438	-1.70982	1.05652	-0.00102	1.28716	0.44831	-0.01284	0.30687
PGV	2.03634	1.96703	-0.09174	-2.61117	1.49359	-0.00149	6.21571	0.33766	-0.02055	0.48553
PGA	1.38833	1.53719	-0.07427	-2.75932	1.14518	-0.00163	5.00518	0.43613	-0.03758	0.79382
0.01000	1.99837	1.55713	-0.07181	-2.88921	1.15847	-0.00148	5.65834	0.42639	-0.02445	0.77640
0.01024	2.00726	1.55908	-0.07117	-2.89196	1.15449	-0.00147	5.65009	0.42736	-0.02458	0.77727
0.01048	2.01962	1.56102	-0.07053	-2.89537	1.15070	-0.00146	5.64550	0.42825	-0.02472	0.77815
0.01072	2.03653	1.56298	-0.06988	-2.89966	1.14715	-0.00144	5.64581	0.42904	-0.02487	0.77903
0.01097	2.05641	1.56495	-0.06923	-2.90452	1.14374	-0.00143	5.64899	0.42975	-0.02502	0.77990
0.01123	2.07934	1.56692	-0.06857	-2.90995	1.14047	-0.00142	5.65544	0.43039	-0.02519	0.78080
0.01150	2.10664	1.56889	-0.06791	-2.91619	1.13738	-0.00140	5.66693	0.43092	-0.02537	0.78180
0.01177	2.13787	1.57088	-0.06725	-2.92317	1.13443	-0.00138	5.68267	0.43137	-0.02557	0.78284
0.01205	2.17327	1.57291	-0.06658	-2.93097	1.13164	-0.00137	5.70268	0.43173	-0.02576	0.78384
0.01233	2.21414	1.57501	-0.06590	-2.93983	1.12904	-0.00135	5.72859	0.43197	-0.02595	0.78475
0.01262	2.25732	1.57713	-0.06520	-2.94913	1.12648	-0.00133	5.75648	0.43219	-0.02613	0.78562
0.01292	2.29981	1.57924	-0.06448	-2.95829	1.12383	-0.00131	5.78243	0.43244	-0.02632	0.78651
0.01322	2.34201	1.58133	-0.06374	-2.96735	1.12107	-0.00129	5.80701	0.43272	-0.02652	0.78749
0.01353	2.38839	1.58346	-0.06299	-2.97718	1.11837	-0.00127	5.83627	0.43292	-0.02673	0.78849
0.01385	2.44123	1.58565	-0.06225	-2.98826	1.11585	-0.00125	5.87296	0.43299	-0.02695	0.78952
0.01417	2.49863	1.58790	-0.06150	-3.00021	1.11348	-0.00123	5.91448	0.43297	-0.02717	0.79059
0.01451	2.55914	1.59017	-0.06074	-3.01272	1.11122	-0.00121	5.95952	0.43289	-0.02740	0.79178
0.01485	2.62137	1.59243	-0.06000	-3.02548	1.10891	-0.00119	6.00638	0.43278	-0.02763	0.79299
0.01520	2.68334	1.59468	-0.05924	-3.03813	1.10633	-0.00116	6.05175	0.43272	-0.02786	0.79416
0.01556	2.74102	1.59687	-0.05848	-3.04986	1.10331	-0.00114	6.09046	0.43280	-0.02807	0.79535
0.01592	2.79180	1.59898	-0.05770	-3.06021	1.09983	-0.00112	6.11929	0.43307	-0.02829	0.79668
0.01630	2.83808	1.60105	-0.05688	-3.06964	1.09607	-0.00110	6.14155	0.43346	-0.02854	0.79825
0.01668	2.88424	1.60314	-0.05601	-3.07906	1.09233	-0.00108	6.16267	0.43388	-0.02881	0.80001
0.01707	2.93815	1.60536	-0.05513	-3.09002	1.08896	-0.00106	6.19239	0.43416	-0.02909	0.80185
0.01748	3.00391	1.60775	-0.05423	-3.10328	1.08598	-0.00104	6.23577	0.43420	-0.02936	0.80373
0.01789	3.06873	1.61014	-0.05333	-3.11629	1.08258	-0.00102	6.27605	0.43434	-0.02964	0.80562
0.01831	3.12691	1.61246	-0.05243	-3.12789	1.07833	-0.00099	6.30616	0.43469	-0.02989	0.80744
0.01874	3.18980	1.61472	-0.05156	-3.14015	1.07360	-0.00097	6.34278	0.43494	-0.03016	0.80929
0.01918	3.26346	1.61699	-0.05072	-3.15428	1.06880	-0.00094	6.39414	0.43495	-0.03042	0.81111
0.01963	3.33876	1.61932	-0.04985	-3.16872	1.06410	-0.00091	6.44660	0.43495	-0.03065	0.81270
0.02009	3.40030	1.62160	-0.04894	-3.18062	1.05926	-0.00089	6.47919	0.43530	-0.03085	0.81410
0.02057	3.44698	1.62378	-0.04801	-3.18971	1.05425	-0.00087	6.49113	0.43599	-0.03107	0.81567
0.02105	3.49078	1.62599	-0.04705	-3.19822	1.04911	-0.00085	6.49798	0.43679	-0.03136	0.81769
0.02154	3.54502	1.62835	-0.04607	-3.20869	1.04396	-0.00083	6.51647	0.43743	-0.03171	0.82012
0.02205	3.61296	1.63082	-0.04505	-3.22161	1.03857	-0.00081	6.55125	0.43783	-0.03206	0.82261
0.02257	3.68694	1.63325	-0.04402	-3.23545	1.03261	-0.00078	6.59401	0.43812	-0.03234	0.82461
0.02310	3.76021	1.63563	-0.04299	-3.24903	1.02633	-0.00076	6.63561	0.43844	-0.03257	0.82627
0.02364	3.83393	1.63803	-0.04202	-3.26261	1.02005	-0.00073	6.67636	0.43879	-0.03286	0.82829
0.02420	3.91263	1.64048	-0.04112	-3.27701	1.01408	-0.00070	6.72257	0.43906	-0.03320	0.83070
0.02477	3.98343	1.64287	-0.04031	-3.28980	1.00823	-0.00068	6.75874	0.43949	-0.03355	0.83322
0.02535	4.02966	1.64499	-0.03955	-3.29781	1.00160	-0.00067	6.76329	0.44044	-0.03389	0.83564
0.02595	4.05521	1.64682	-0.03884	-3.30173	0.99395	-0.00065	6.74172	0.44181	-0.03415	0.83760
0.02656	4.06577	1.64846	-0.03809	-3.30266	0.98545	-0.00064	6.70204	0.44350	-0.03436	0.83918
0.02719	4.06474	1.65008	-0.03716	-3.30135	0.97646	-0.00064	6.64721	0.44548	-0.03457	0.84089
0.02783	4.05893	1.65178	-0.03610	-3.29911	0.96750	-0.00064	6.58673	0.44760	-0.03478	0.84269
0.02848	4.05584	1.65355	-0.03505	-3.29730	0.95899	-0.00063	6.53153	0.44964	-0.03500	0.84454
0.02915	4.05648	1.65536	-0.03408	-3.29616	0.95094	-0.00063	6.48151	0.45159	-0.03518	0.84622
0.02984	4.04511	1.65690	-0.03321	-3.29253	0.94220	-0.00063	6.41685	0.45379	-0.03533	0.84785
0.03054	4.01508	1.65797	-0.03243	-3.28501	0.93212	-0.00064	6.33129	0.45636	-0.03551	0.84970
0.03126	3.97256	1.65872	-0.03173	-3.27487	0.92150	-0.00064	6.23498	0.45912	-0.03564	0.85133
0.03199	3.93044	1.65949	-0.03103	-3.26470	0.91130	-0.00065	6.14330	0.46182	-0.03570	0.85253
0.03275	3.89010	1.66037	-0.03026	-3.25478	0.90153	-0.00066	6.05639	0.46448	-0.03586	0.85445
0.03352	3.84762	1.66136	-0.02942	-3.24451	0.89255	-0.00067	5.96840	0.46719	-0.03625	0.85807
0.03430	3.80714	1.66228	-0.02871	-3.23464	0.88518	-0.00069	5.88548	0.46974	-0.03681	0.86291
0.03511	3.76891	1.66320	-0.02812	-3.22531	0.87849	-0.00071	5.80479	0.47224	-0.03737	0.86795
0.03594	3.72772	1.66412	-0.02760	-3.21535	0.87045	-0.00072	5.71986	0.47488	-0.03787	0.87269
0.03678	3.67386	1.66458	-0.02722	-3.20238	0.85997	-0.00073	5.62438	0.47780	-0.03823	0.87658
0.03765	3.61283	1.66443	-0.02695	-3.18715	0.84768	-0.00075	5.52755	0.48079	-0.03835	0.87877
0.03854	3.54999	1.66389	-0.02669	-3.17098	0.83458	-0.00076	5.43318	0.48378	-0.03825	0.87931
0.03944	3.47805	1.66315	-0.02639	-3.15311	0.82193	-0.00078	5.32841	0.48697	-0.03808	0.87934
0.04037	3.38438	1.66237	-0.02602	-3.13168	0.81115	-0.00080	5.19891	0.49065	-0.03802	0.88012
0.04132	3.28079	1.66182	-0.02554	-3.10896	0.80296	-0.00084	5.06122	0.49451	-0.03828	0.88306
0.04229	3.18152	1.66173	-0.02493	-3.08755	0.79630	-0.00087	4.93205	0.49826	-0.03872	0.88727
0.04329	3.09099	1.66197	-0.02431	-3.06794	0.78910	-0.00090	4.81261	0.50193	-0.03898	0.89025
0.04431	3.00584	1.66212	-0.02382	-3.04894	0.78011	-0.00093	4.69877	0.50561	-0.03890	0.89082
0.04535	2.89607	1.66150	-0.02340	-3.02451	0.76968	-0.00096	4.56583	0.50983	-0.03858	0.88965

0.04642	2.72893	1.65991	-0.02281	-2.98859	0.75907	-0.00101	4.38422	0.51535	-0.03819	0.88781
0.04751	2.51109	1.65800	-0.02183	-2.94312	0.74849	-0.00108	4.15610	0.52239	-0.03789	0.88626
0.04863	2.28537	1.65617	-0.02066	-2.89631	0.73829	-0.00116	3.92457	0.52991	-0.03773	0.88560
0.04977	2.06954	1.65404	-0.01955	-2.85112	0.72810	-0.00123	3.70845	0.53730	-0.03764	0.88548
0.05094	1.85938	1.65130	-0.01860	-2.80658	0.71730	-0.00129	3.50301	0.54464	-0.03756	0.88538
0.05214	1.65691	1.64805	-0.01784	-2.76301	0.70543	-0.00135	3.31091	0.55189	-0.03756	0.88578
0.05337	1.48107	1.64491	-0.01723	-2.72426	0.69391	-0.00140	3.14926	0.55843	-0.03771	0.88707
0.05462	1.35845	1.64250	-0.01678	-2.69610	0.68619	-0.00144	3.03840	0.56322	-0.03794	0.88880
0.05591	1.26368	1.64124	-0.01620	-2.67433	0.68141	-0.00148	2.95265	0.56716	-0.03810	0.89003
0.05722	1.14536	1.64059	-0.01527	-2.64873	0.67538	-0.00153	2.84786	0.57217	-0.03817	0.89083
0.05857	1.01485	1.63966	-0.01446	-2.62039	0.66829	-0.00158	2.73675	0.57765	-0.03834	0.89249
0.05995	0.91064	1.63807	-0.01431	-2.59611	0.66235	-0.00162	2.65327	0.58190	-0.03851	0.89448
0.06136	0.82896	1.63558	-0.01480	-2.57485	0.65608	-0.00166	2.59255	0.58509	-0.03851	0.89548
0.06280	0.73774	1.63239	-0.01537	-2.55084	0.64761	-0.00169	2.52589	0.58865	-0.03840	0.89608
0.06428	0.62499	1.62951	-0.01557	-2.52320	0.63876	-0.00173	2.44177	0.59324	-0.03818	0.89626
0.06579	0.50706	1.62704	-0.01548	-2.49528	0.63175	-0.00177	2.35516	0.59805	-0.03768	0.89456
0.06734	0.39883	1.62413	-0.01543	-2.46914	0.62693	-0.00182	2.28052	0.60215	-0.03697	0.89122
0.06893	0.30516	1.62093	-0.01563	-2.44577	0.62402	-0.00187	2.21892	0.60546	-0.03626	0.88765
0.07055	0.20592	1.61793	-0.01592	-2.42190	0.62265	-0.00192	2.15214	0.60908	-0.03572	0.88510
0.07221	0.08902	1.61520	-0.01611	-2.39535	0.62381	-0.00198	2.07279	0.61345	-0.03554	0.88496
0.07391	-0.02593	1.61227	-0.01633	-2.36925	0.62819	-0.00204	1.99830	0.61750	-0.03558	0.88639
0.07565	-0.12778	1.60931	-0.01660	-2.34540	0.63348	-0.00211	1.93581	0.62094	-0.03558	0.88756
0.07743	-0.21458	1.60633	-0.01705	-2.32416	0.63738	-0.00216	1.88367	0.62391	-0.03554	0.88829
0.07925	-0.29307	1.60310	-0.01759	-2.30437	0.64021	-0.00221	1.83660	0.62665	-0.03561	0.88985
0.08111	-0.38722	1.59980	-0.01786	-2.28155	0.64081	-0.00226	1.77863	0.63034	-0.03584	0.89252
0.08302	-0.49903	1.59635	-0.01801	-2.25531	0.63891	-0.00230	1.70757	0.63517	-0.03613	0.89552
0.08498	-0.58691	1.59265	-0.01866	-2.23346	0.63759	-0.00234	1.65334	0.63877	-0.03644	0.89869
0.08697	-0.63693	1.58874	-0.01983	-2.21869	0.63946	-0.00237	1.62725	0.64004	-0.03665	0.90133
0.08902	-0.69563	1.58385	-0.02102	-2.20144	0.64124	-0.00240	1.59827	0.64139	-0.03675	0.90327
0.09112	-0.78117	1.57766	-0.02223	-2.17752	0.64083	-0.00245	1.55379	0.64398	-0.03674	0.90438
0.09326	-0.88531	1.57055	-0.02354	-2.14885	0.63937	-0.00250	1.49766	0.64765	-0.03663	0.90466
0.09545	-1.01980	1.56316	-0.02439	-2.11442	0.63695	-0.00255	1.42043	0.65336	-0.03636	0.90395
0.09770	-1.18138	1.55516	-0.02473	-2.07514	0.63456	-0.00261	1.32533	0.66091	-0.03598	0.90276
0.10000	-1.34506	1.54599	-0.02509	-2.03531	0.63372	-0.00267	1.22977	0.66873	-0.03571	0.90287
0.10235	-1.49457	1.53664	-0.02564	-1.99826	0.63325	-0.00273	1.14424	0.67607	-0.03562	0.90484
0.10476	-1.61865	1.52859	-0.02638	-1.96703	0.63357	-0.00277	1.07726	0.68209	-0.03541	0.90632
0.10723	-1.70796	1.52221	-0.02740	-1.94378	0.63565	-0.00281	1.03392	0.68587	-0.03481	0.90529
0.10975	-1.75760	1.51751	-0.02881	-1.92951	0.63976	-0.00283	1.01472	0.68700	-0.03390	0.90203
0.11233	-1.78069	1.51419	-0.03052	-1.92145	0.64592	-0.00285	1.01215	0.68621	-0.03290	0.89756
0.11498	-1.80151	1.51165	-0.03220	-1.91434	0.65290	-0.00288	1.01350	0.68504	-0.03196	0.89302
0.11768	-1.83549	1.50925	-0.03367	-1.90441	0.66041	-0.00291	1.00940	0.68462	-0.03107	0.88893
0.12045	-1.90805	1.50651	-0.03472	-1.88630	0.66576	-0.00296	0.98397	0.68707	-0.03033	0.88614
0.12328	-2.01246	1.50337	-0.03552	-1.86174	0.66701	-0.00301	0.94032	0.69217	-0.02981	0.88505
0.12619	-2.12355	1.49983	-0.03645	-1.83601	0.66423	-0.00304	0.89166	0.69825	-0.02934	0.88407
0.12916	-2.22885	1.49539	-0.03768	-1.81116	0.65816	-0.00306	0.84359	0.70442	-0.02877	0.88193
0.13219	-2.31485	1.48968	-0.03935	-1.78903	0.65100	-0.00306	0.80482	0.70922	-0.02818	0.87925
0.13531	-2.37118	1.48350	-0.04141	-1.77204	0.64596	-0.00306	0.78268	0.71139	-0.02779	0.87749
0.13849	-2.41046	1.47693	-0.04359	-1.75788	0.64338	-0.00306	0.77097	0.71176	-0.02766	0.87723
0.14175	-2.44941	1.46938	-0.04582	-1.74309	0.64171	-0.00306	0.75888	0.71191	-0.02753	0.87692
0.14508	-2.50470	1.46075	-0.04830	-1.72470	0.63809	-0.00305	0.73545	0.71371	-0.02721	0.87533
0.14850	-2.56851	1.45143	-0.05137	-1.70481	0.63205	-0.00304	0.70540	0.71648	-0.02668	0.87210
0.15199	-2.61891	1.44233	-0.05496	-1.68813	0.62618	-0.00301	0.68201	0.71809	-0.02611	0.86791
0.15557	-2.65841	1.43478	-0.05842	-1.67432	0.62283	-0.00299	0.66567	0.71886	-0.02554	0.86345
0.15923	-2.69367	1.42882	-0.06170	-1.66177	0.62102	-0.00298	0.65138	0.71985	-0.02470	0.85792
0.16298	-2.71121	1.42395	-0.06521	-1.65306	0.61967	-0.00297	0.64441	0.71979	-0.02350	0.85096
0.16681	-2.70398	1.42127	-0.06880	-1.65099	0.62066	-0.00295	0.65003	0.71768	-0.02231	0.84457
0.17074	-2.67782	1.42039	-0.07232	-1.65433	0.62627	-0.00294	0.66649	0.71370	-0.02157	0.84109
0.17475	-2.64975	1.41907	-0.07579	-1.65728	0.63346	-0.00294	0.68542	0.70927	-0.02147	0.84132
0.17887	-2.64344	1.41593	-0.07925	-1.65383	0.63947	-0.00295	0.69605	0.70616	-0.02182	0.84401
0.18307	-2.66808	1.41204	-0.08249	-1.64390	0.64629	-0.00298	0.69449	0.70501	-0.02224	0.84699
0.18738	-2.71193	1.40855	-0.08550	-1.63156	0.65401	-0.00302	0.68489	0.70512	-0.02243	0.84854
0.19179	-2.75700	1.40442	-0.08863	-1.61919	0.65995	-0.00304	0.67443	0.70509	-0.02242	0.84869
0.19631	-2.78665	1.40057	-0.09197	-1.61071	0.66733	-0.00305	0.67191	0.70336	-0.02219	0.84765
0.20092	-2.80197	1.39751	-0.09529	-1.60607	0.67880	-0.00307	0.67728	0.70002	-0.02162	0.84490
0.20565	-2.82784	1.39415	-0.09862	-1.59894	0.68699	-0.00307	0.67560	0.69803	-0.02066	0.84059
0.21049	-2.87855	1.39070	-0.10199	-1.58671	0.68898	-0.00307	0.65916	0.69898	-0.01941	0.83489
0.21544	-2.93125	1.38778	-0.10556	-1.57441	0.68989	-0.00307	0.64227	0.70022	-0.01804	0.82789
0.22051	-2.97579	1.38507	-0.10933	-1.56350	0.69038	-0.00307	0.63112	0.70051	-0.01682	0.82128
0.22570	-3.02274	1.38282	-0.11282	-1.55223	0.68995	-0.00307	0.61944	0.70120	-0.01598	0.81699
0.23101	-3.07081	1.38169	-0.11571	-1.54139	0.68962	-0.00308	0.60800	0.70231	-0.01548	0.81497
0.23645	-3.11660	1.38098	-0.11816	-1.53075	0.68972	-0.00309	0.59914	0.70320	-0.01503	0.81301
0.24201	-3.16270	1.38048	-0.12044	-1.51986	0.69138	-0.00310	0.59078	0.70419	-0.01449	0.81040
0.24771	-3.21572	1.38106	-0.12270	-1.50889	0.69381	-0.00313	0.57984	0.70587	-0.01383	0.80734
0.25354	-3.27228	1.38257	-0.12518	-1.49862	0.69446	-0.00314	0.56891	0.70760	-0.01280	0.80231
0.25950	-3.32701	1.38406	-0.12803	-1.48899	0.69243	-0.00315	0.55977	0.70895	-0.01154	0.79618
0.26561	-3.37997	1.38478	-0.13115	-1.47970	0.68737	-0.00314	0.55031	0.71020	-0.01032	0.79043
0.27186	-3.40527	1.38490	-0.13478	-1.47633	0.68733	-0.00311	0.55265	0.70818	-0.00909	0.78460
0.27826	-3.37983	1.38526	-0.13918	-1.48371	0.69912	-0.00310	0.57918	0.70024	-0.00762	0.77700
0.28480	-3.33750	1.38479	-0.14407	-1.49350	0.71487	-0.00308	0.61405	0.69046	-0.00600	0.76807
0.29150	-3.31791	1.38257	-0.14899	-1.49694	0.72303	-0.00306	0.63687	0.68322	-0.00479	0.76174
0.29836	-3.33338	1.37953	-0.15355	-1.49270	0.72155	-0.00302	0.64092	0.67981	-0.00429	0.76022

0.30539	-3.37548	1.37740	-0.15754	-1.48401	0.71769	-0.00299	0.63230	0.67916	-0.00424	0.76159
0.31257	-3.42944	1.37642	-0.16124	-1.47394	0.71736	-0.00298	0.61904	0.67966	-0.00420	0.76258
0.31993	-3.47650	1.37517	-0.16522	-1.46527	0.72079	-0.00298	0.60919	0.67924	-0.00407	0.76264
0.32745	-3.50857	1.37330	-0.16940	-1.45945	0.72356	-0.00297	0.60719	0.67693	-0.00406	0.76339
0.33517	-3.53823	1.37168	-0.17343	-1.45446	0.72246	-0.00294	0.60975	0.67378	-0.00435	0.76620
0.34304	-3.57598	1.37108	-0.17730	-1.44892	0.71900	-0.00291	0.61124	0.67112	-0.00459	0.76928
0.35112	-3.62106	1.37221	-0.18119	-1.44408	0.71768	-0.00288	0.60886	0.66952	-0.00451	0.77037
0.35938	-3.68995	1.37523	-0.18474	-1.43658	0.71716	-0.00287	0.59270	0.67115	-0.00391	0.76748
0.36784	-3.79479	1.37835	-0.18778	-1.42168	0.71199	-0.00287	0.55904	0.67675	-0.00302	0.76152
0.37649	-3.90464	1.38002	-0.19077	-1.40393	0.70134	-0.00287	0.52519	0.68252	-0.00210	0.75513
0.38536	-3.97931	1.38095	-0.19449	-1.39259	0.69036	-0.00284	0.51030	0.68382	-0.00131	0.75043
0.39442	-3.99935	1.38291	-0.19916	-1.39396	0.68540	-0.00278	0.52425	0.67812	-0.00077	0.74859
0.40370	-3.97644	1.38623	-0.20426	-1.40655	0.68811	-0.00272	0.56268	0.66683	-0.00057	0.74990
0.41321	-3.94136	1.39040	-0.20907	-1.42354	0.69687	-0.00266	0.61124	0.65387	-0.00075	0.75365
0.42292	-3.92975	1.39546	-0.21304	-1.43701	0.70933	-0.00262	0.65012	0.64372	-0.00108	0.75783
0.43288	-3.97124	1.40082	-0.21618	-1.43958	0.72047	-0.00262	0.65959	0.63976	-0.00131	0.76062
0.44307	-4.06973	1.40522	-0.21895	-1.42856	0.72372	-0.00262	0.63536	0.64241	-0.00150	0.76269
0.45349	-4.19840	1.40823	-0.22199	-1.40885	0.71569	-0.00262	0.59393	0.64886	-0.00182	0.76593
0.46417	-4.32226	1.41044	-0.22568	-1.38859	0.70176	-0.00260	0.55731	0.65474	-0.00224	0.77108
0.47508	-4.40752	1.41288	-0.23017	-1.37668	0.69546	-0.00258	0.54531	0.65490	-0.00240	0.77599
0.48626	-4.44226	1.41620	-0.23537	-1.37709	0.70503	-0.00259	0.56477	0.64724	-0.00189	0.77727
0.49771	-4.43585	1.42072	-0.24085	-1.38825	0.72729	-0.00261	0.61101	0.63390	-0.00083	0.77501
0.50942	-4.41939	1.42584	-0.24633	-1.40262	0.75169	-0.00263	0.66526	0.61996	0.00035	0.77170
0.52140	-4.42245	1.43068	-0.25169	-1.41285	0.77050	-0.00265	0.70810	0.60903	0.00130	0.76969
0.53367	-4.45551	1.43483	-0.25685	-1.41629	0.78255	-0.00265	0.73242	0.60160	0.00173	0.77087
0.54624	-4.51338	1.43786	-0.26190	-1.41332	0.79026	-0.00266	0.74174	0.59659	0.00163	0.77546
0.55910	-4.59110	1.43974	-0.26691	-1.40446	0.79333	-0.00266	0.73847	0.59356	0.00123	0.78212
0.57225	-4.68474	1.44078	-0.27190	-1.39087	0.78891	-0.00266	0.72334	0.59245	0.00090	0.78852
0.58569	-4.77932	1.44085	-0.27714	-1.37633	0.77837	-0.00263	0.70699	0.59106	0.00092	0.79241
0.59948	-4.86357	1.43993	-0.28282	-1.36392	0.76585	-0.00259	0.70117	0.58688	0.00130	0.79353
0.61357	-4.94208	1.43899	-0.28854	-1.35363	0.75459	-0.00255	0.70596	0.58023	0.00177	0.79347
0.62802	-5.02437	1.43960	-0.29379	-1.34459	0.74888	-0.00252	0.71354	0.57329	0.00213	0.79407
0.64280	-5.10971	1.44271	-0.29843	-1.33738	0.75221	-0.00253	0.72153	0.56708	0.00237	0.79577
0.65794	-5.18760	1.44841	-0.30279	-1.33406	0.76297	-0.00255	0.73577	0.56089	0.00274	0.79705
0.67340	-5.25126	1.45583	-0.30718	-1.33507	0.77524	-0.00256	0.76157	0.55384	0.00340	0.79660
0.68927	-5.30100	1.46376	-0.31177	-1.33916	0.78485	-0.00256	0.80108	0.54538	0.00430	0.79479
0.70547	-5.34296	1.47126	-0.31635	-1.34427	0.79081	-0.00253	0.85096	0.53584	0.00539	0.79187
0.72207	-5.38762	1.47768	-0.32073	-1.34779	0.79349	-0.00250	0.90534	0.52566	0.00665	0.78743
0.73910	-5.43335	1.48281	-0.32499	-1.34981	0.79526	-0.00248	0.96572	0.51448	0.00796	0.78187
0.75649	-5.47177	1.48681	-0.32935	-1.35209	0.79744	-0.00245	1.03717	0.50201	0.00913	0.77607
0.77429	-5.50802	1.48987	-0.33385	-1.35354	0.79781	-0.00243	1.11421	0.48924	0.01010	0.77042
0.79246	-5.55985	1.49268	-0.33815	-1.35109	0.79471	-0.00241	1.17705	0.47850	0.01076	0.76547
0.81116	-5.64708	1.49650	-0.34201	-1.34218	0.78788	-0.00240	1.20004	0.47228	0.01117	0.76135
0.83022	-5.78192	1.50201	-0.34539	-1.32530	0.77622	-0.00240	1.16547	0.47208	0.01165	0.75651
0.84976	-5.96241	1.50899	-0.34843	-1.30098	0.75950	-0.00240	1.08233	0.47704	0.01251	0.74922
0.86972	-6.16777	1.51683	-0.35118	-1.27296	0.74042	-0.00240	0.97904	0.48483	0.01357	0.74083
0.89023	-6.37429	1.52549	-0.35376	-1.24614	0.72194	-0.00240	0.88258	0.49299	0.01451	0.73396
0.91116	-6.55813	1.53509	-0.35632	-1.22572	0.70752	-0.00239	0.81410	0.49875	0.01524	0.72952
0.93257	-6.70697	1.54560	-0.35900	-1.21444	0.70077	-0.00238	0.78368	0.49979	0.01582	0.72694
0.95456	-6.81939	1.55655	-0.36195	-1.21192	0.70387	-0.00237	0.79049	0.49551	0.01624	0.72627
0.97704	-6.89756	1.56728	-0.36524	-1.21662	0.71662	-0.00238	0.83231	0.48624	0.01644	0.72778
1.00000	-6.94782	1.57754	-0.36876	-1.22654	0.73689	-0.00239	0.90664	0.47303	0.01647	0.73131
1.02354	-6.98416	1.58746	-0.37222	-1.23865	0.76079	-0.00241	1.00390	0.45799	0.01645	0.73576
1.04767	-7.02484	1.59724	-0.37545	-1.24915	0.78409	-0.00244	1.10452	0.44382	0.01658	0.73955
1.07227	-7.08065	1.60705	-0.37840	-1.25576	0.80411	-0.00247	1.19091	0.43220	0.01689	0.74224
1.09745	-7.15526	1.61678	-0.38121	-1.25757	0.81915	-0.00250	1.25227	0.42366	0.01728	0.74442
1.12334	-7.25414	1.62588	-0.38409	-1.25282	0.82720	-0.00253	1.27778	0.41849	0.01757	0.74691
1.14982	-7.37492	1.63389	-0.38703	-1.24159	0.82820	-0.00255	1.26978	0.41601	0.01759	0.75048
1.17675	-7.50536	1.64106	-0.39000	-1.22696	0.82386	-0.00256	1.24445	0.41480	0.01733	0.75515
1.20453	-7.63163	1.64810	-0.39308	-1.21307	0.81624	-0.00256	1.22289	0.41316	0.01691	0.76052
1.23289	-7.74330	1.65550	-0.39610	-1.20291	0.80768	-0.00253	1.21986	0.40997	0.01635	0.76647
1.26183	-7.83894	1.66370	-0.39890	-1.19747	0.80031	-0.00249	1.24153	0.40477	0.01582	0.77208
1.29149	-7.92070	1.67296	-0.40146	-1.19673	0.79510	-0.00245	1.29065	0.39744	0.01557	0.77591
1.32188	-7.99245	1.68332	-0.40372	-1.19986	0.79214	-0.00240	1.36340	0.38864	0.01569	0.77762
1.35300	-8.06285	1.69473	-0.40567	-1.20475	0.79090	-0.00235	1.44595	0.37978	0.01622	0.77722
1.38485	-8.13609	1.70696	-0.40735	-1.21005	0.79157	-0.00230	1.53030	0.37149	0.01714	0.77507
1.41743	-8.21562	1.71949	-0.40878	-1.21433	0.79396	-0.00227	1.60925	0.36406	0.01820	0.77269
1.45075	-8.30569	1.73190	-0.40991	-1.21618	0.79685	-0.00225	1.67310	0.35792	0.01911	0.77196
1.48500	-8.41015	1.74419	-0.41072	-1.21486	0.79832	-0.00223	1.71443	0.35336	0.01971	0.77391
1.51999	-8.52721	1.75647	-0.41130	-1.21096	0.79713	-0.00222	1.73247	0.35036	0.02010	0.77773
1.55569	-8.65511	1.76874	-0.41182	-1.20500	0.79284	-0.00220	1.73005	0.34855	0.02045	0.78202
1.59236	-8.79328	1.78092	-0.41231	-1.19706	0.78606	-0.00219	1.71098	0.34755	0.02076	0.78687
1.62973	-8.93899	1.79276	-0.41278	-1.18728	0.77787	-0.00218	1.68072	0.34691	0.02093	0.79301
1.66806	-9.08949	1.80452	-0.41319	-1.17668	0.77001	-0.00217	1.64832	0.34607	0.02097	0.80028
1.70736	-9.24313	1.81658	-0.41344	-1.16628	0.76381	-0.00218	1.61943	0.34475	0.02109	0.80715
1.74764	-9.40155	1.82902	-0.41344	-1.15615	0.75907	-0.00219	1.59441	0.34279	0.02141	0.81229
1.78859	-9.56160	1.84142	-0.41321	-1.14650	0.75506	-0.00221	1.57765	0.33979	0.02191	0.81563
1.83083	-9.72152	1.85349	-0.41283	-1.13746	0.75143	-0.00222	1.57427	0.33522	0.02245	0.81844
1.87371	-9.87775	1.86477	-0.41226	-1.12890	0.74817	-0.00223	1.58210	0.32938	0.02279	0.82260
1.91791	-10.03363	1.87542	-0.41147	-1.12033	0.74523	-0.00224	1.59625	0.32267	0.02278	0.82952
1.96309	-10.18861	1.88559	-0.41042	-1.11184	0.74315	-0.00225	1.61507	0.31539	0.02244	0.83911

2.00924	-10.34145	1.89559	-0.40903	-1.10405	0.74324	-0.00226	1.64336	0.30741	0.02194	0.84999
2.05634	-10.49057	1.90564	-0.40725	-1.09755	0.74668	-0.00227	1.68781	0.29846	0.02148	0.86053
2.10482	-10.63587	1.91603	-0.40510	-1.09277	0.75414	-0.00230	1.75336	0.28843	0.02121	0.86952
2.15424	-10.77380	1.92677	-0.40271	-1.09029	0.76534	-0.00232	1.84220	0.27760	0.02115	0.87651
2.20507	-10.90538	1.93810	-0.40010	-1.09019	0.77916	-0.00235	1.95328	0.26643	0.02124	0.88180
2.25683	-11.03251	1.94995	-0.39729	-1.09182	0.79345	-0.00238	2.07847	0.25560	0.02146	0.88526
2.31000	-11.15858	1.96246	-0.39426	-1.09467	0.80722	-0.00240	2.21502	0.24529	0.02188	0.88635
2.36463	-11.28489	1.97557	-0.39102	-1.09823	0.81959	-0.00241	2.35856	0.23576	0.02243	0.88540
2.42014	-11.41127	1.98905	-0.38767	-1.10181	0.82980	-0.00242	2.49872	0.22752	0.02292	0.88384
2.47709	-11.53932	2.00283	-0.38431	-1.10486	0.83796	-0.00242	2.62904	0.22062	0.02322	0.88314
2.53550	-11.66891	2.01682	-0.38104	-1.10711	0.84450	-0.00241	2.74436	0.21503	0.02329	0.88425
2.59471	-11.80019	2.03086	-0.37792	-1.10810	0.84969	-0.00241	2.83631	0.21085	0.02315	0.88736
2.65604	-11.93650	2.04530	-0.37490	-1.10780	0.85397	-0.00240	2.90423	0.20792	0.02285	0.89236
2.71887	-12.07620	2.06003	-0.37209	-1.10627	0.85715	-0.00240	2.94631	0.20618	0.02246	0.89891
2.78242	-12.21756	2.07484	-0.36952	-1.10356	0.85886	-0.00239	2.96322	0.20550	0.02204	0.90644
2.84819	-12.36271	2.09000	-0.36713	-1.09988	0.85894	-0.00239	2.96090	0.20558	0.02164	0.91478
2.91545	-12.50782	2.10526	-0.36498	-1.09553	0.85761	-0.00237	2.94648	0.20609	0.02128	0.92387
2.98329	-12.64841	2.12029	-0.36308	-1.09113	0.85558	-0.00236	2.92873	0.20676	0.02093	0.93357
3.05344	-12.78654	2.13541	-0.36146	-1.08668	0.85328	-0.00234	2.90968	0.20746	0.02059	0.94408
3.12598	-12.92227	2.15057	-0.36007	-1.08226	0.85091	-0.00233	2.88901	0.20823	0.02023	0.95520
3.19898	-13.05100	2.16530	-0.35899	-1.07806	0.84870	-0.00231	2.86889	0.20894	0.01989	0.96634
3.27439	-13.17624	2.17999	-0.35816	-1.07410	0.84665	-0.00229	2.84946	0.20960	0.01955	0.97734
3.35121	-13.29567	2.19436	-0.35759	-1.07051	0.84493	-0.00227	2.83256	0.21011	0.01922	0.98776
3.43053	-13.41059	2.20871	-0.35721	-1.06754	0.84377	-0.00225	2.82199	0.21039	0.01892	0.99768
3.51124	-13.51795	2.22272	-0.35700	-1.06549	0.84372	-0.00224	2.82264	0.21019	0.01862	1.00707
3.59324	-13.61870	2.23649	-0.35687	-1.06453	0.84502	-0.00222	2.83685	0.20947	0.01837	1.01589
3.67782	-13.71384	2.25008	-0.35687	-1.06446	0.84771	-0.00221	2.86549	0.20803	0.01812	1.02470
3.76506	-13.80679	2.26372	-0.35670	-1.06543	0.85210	-0.00220	2.90821	0.20606	0.01791	1.03328
3.85356	-13.89260	2.27696	-0.35667	-1.06726	0.85781	-0.00219	2.96502	0.20344	0.01770	1.04213
3.94477	-13.97967	2.29028	-0.35617	-1.06999	0.86510	-0.00219	3.03445	0.20044	0.01752	1.05056
4.03714	-14.06022	2.30328	-0.35577	-1.07357	0.87349	-0.00218	3.11961	0.19681	0.01734	1.05896
4.13223	-14.14387	2.31607	-0.35495	-1.07723	0.88223	-0.00218	3.21161	0.19296	0.01711	1.06725
4.23012	-14.23238	2.32890	-0.35383	-1.08056	0.89082	-0.00218	3.30693	0.18895	0.01689	1.07501
4.32900	-14.32048	2.34090	-0.35278	-1.08284	0.89808	-0.00218	3.39984	0.18470	0.01662	1.08258
4.43066	-14.42523	2.35267	-0.35096	-1.08302	0.90340	-0.00218	3.47472	0.18089	0.01633	1.08946
4.53515	-14.53324	2.36412	-0.34920	-1.08189	0.90698	-0.00218	3.54580	0.17676	0.01608	1.09600
4.64253	-14.64881	2.37504	-0.34707	-1.07942	0.90888	-0.00219	3.60346	0.17289	0.01587	1.10216
4.75059	-14.77946	2.38586	-0.34411	-1.07531	0.90906	-0.00219	3.63552	0.16991	0.01577	1.10710
4.86145	-14.90740	2.39657	-0.34131	-1.07104	0.90855	-0.00219	3.66704	0.16674	0.01583	1.11152
4.97760	-15.04284	2.40727	-0.33786	-1.06700	0.90870	-0.00219	3.68057	0.16477	0.01597	1.11530
5.09424	-15.18678	2.41820	-0.33354	-1.06326	0.90977	-0.00220	3.67240	0.16426	0.01626	1.11771
5.21376	-15.32334	2.42927	-0.32947	-1.06034	0.91154	-0.00220	3.67286	0.16348	0.01669	1.11990
5.33618	-15.46077	2.43969	-0.32508	-1.05768	0.91393	-0.00221	3.65640	0.16382	0.01713	1.12200
5.46150	-15.61015	2.45013	-0.31965	-1.05495	0.91711	-0.00222	3.61147	0.16595	0.01763	1.12332
5.58971	-15.75556	2.46108	-0.31436	-1.05264	0.92030	-0.00223	3.57244	0.16781	0.01820	1.12490
5.72082	-15.89548	2.47144	-0.30932	-1.05047	0.92303	-0.00224	3.53325	0.16967	0.01869	1.12724
5.85823	-16.04805	2.48085	-0.30317	-1.04806	0.92570	-0.00225	3.46582	0.17328	0.01908	1.12943
5.99520	-16.19922	2.49069	-0.29686	-1.04589	0.92809	-0.00225	3.39761	0.17698	0.01941	1.13194
6.13497	-16.34362	2.50117	-0.29108	-1.04403	0.93022	-0.00226	3.34315	0.17985	0.01964	1.13554
6.28141	-16.48469	2.51004	-0.28515	-1.04272	0.93275	-0.00226	3.28921	0.18308	0.01966	1.13987
6.42674	-16.62337	2.51764	-0.27854	-1.04219	0.93587	-0.00226	3.23058	0.18716	0.01947	1.14432
6.57895	-16.76545	2.52689	-0.27179	-1.04201	0.93914	-0.00227	3.18095	0.19075	0.01915	1.14987
6.73401	-16.90315	2.53723	-0.26564	-1.04184	0.94212	-0.00226	3.14555	0.19332	0.01875	1.15639
6.89180	-17.03044	2.54462	-0.25969	-1.04174	0.94437	-0.00226	3.10836	0.19618	0.01826	1.16308
7.05716	-17.15910	2.55066	-0.25292	-1.04211	0.94640	-0.00226	3.06607	0.19975	0.01759	1.17026
7.22022	-17.28647	2.55840	-0.24641	-1.04249	0.94832	-0.00226	3.03250	0.20266	0.01684	1.17783
7.39098	-17.42055	2.56867	-0.24015	-1.04259	0.95023	-0.00226	3.00589	0.20485	0.01607	1.18593
7.56430	-17.54102	2.57681	-0.23464	-1.04293	0.95170	-0.00225	2.98537	0.20679	0.01537	1.19345
7.73994	-17.64425	2.58040	-0.22892	-1.04432	0.95250	-0.00225	2.96326	0.20953	0.01461	1.20043
7.92393	-17.75699	2.58613	-0.22277	-1.04571	0.95318	-0.00224	2.94170	0.21217	0.01374	1.20765
8.11030	-17.87618	2.59428	-0.21670	-1.04681	0.95377	-0.00223	2.92319	0.21437	0.01288	1.21467
8.29876	-18.00414	2.60559	-0.21101	-1.04725	0.95445	-0.00222	2.90811	0.21590	0.01209	1.22127
8.49618	-18.11035	2.61189	-0.20608	-1.04823	0.95492	-0.00221	2.89654	0.21752	0.01144	1.22710
8.69565	-18.19417	2.61299	-0.20110	-1.05032	0.95502	-0.00220	2.88577	0.21969	0.01079	1.23266
8.90472	-18.29556	2.61800	-0.19560	-1.05208	0.95519	-0.00219	2.87478	0.22164	0.01008	1.23860
9.11577	-18.40299	2.62492	-0.19010	-1.05354	0.95546	-0.00218	2.86456	0.22332	0.00939	1.24447
9.32836	-18.53164	2.63712	-0.18438	-1.05411	0.95584	-0.00216	2.85285	0.22461	0.00874	1.25036
9.54198	-18.64564	2.64692	-0.17977	-1.05451	0.95630	-0.00215	2.84443	0.22556	0.00823	1.25579
9.76563	-18.71187	2.64586	-0.17609	-1.05657	0.95671	-0.00214	2.84168	0.22697	0.00780	1.26147
10.00000	-18.78716	2.64638	-0.17172	-1.05878	0.95716	-0.00213	2.83877	0.22843	0.00729	1.26818

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Median stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 6 - 15 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	7.60150	2.47427	-0.08167	-4.66350	1.49602	0.00106	28.37189	0.18966	-0.02294	0.54909
PGV	17.09897	1.60519	-0.10125	-5.00113	1.34503	0.00114	37.71839	0.17898	-0.00558	0.48344
PGA	6.34912	1.48487	-0.07420	-3.36422	0.51880	-0.00039	11.70261	0.38593	-0.01850	0.75828
0.01000	6.40055	1.49095	-0.07228	-3.36655	0.50200	-0.00040	11.75369	0.38867	0.00642	0.67728
0.01024	6.41179	1.49142	-0.07203	-3.36821	0.50102	-0.00040	11.76508	0.38880	0.00639	0.67785
0.01048	6.42482	1.49192	-0.07176	-3.37017	0.50001	-0.00040	11.77916	0.38891	0.00637	0.67842
0.01072	6.43992	1.49247	-0.07148	-3.37248	0.49894	-0.00039	11.79639	0.38902	0.00633	0.67900
0.01097	6.45727	1.49307	-0.07117	-3.37516	0.49781	-0.00039	11.81698	0.38912	0.00629	0.67959
0.01123	6.47722	1.49374	-0.07084	-3.37827	0.49662	-0.00039	11.84155	0.38921	0.00625	0.68019
0.01150	6.50002	1.49448	-0.07048	-3.38184	0.49534	-0.00038	11.87054	0.38928	0.00619	0.68082
0.01177	6.52587	1.49528	-0.07009	-3.38590	0.49395	-0.00038	11.90420	0.38935	0.00613	0.68150
0.01205	6.55494	1.49618	-0.06966	-3.39048	0.49242	-0.00038	11.94262	0.38941	0.00606	0.68226
0.01233	6.58742	1.49718	-0.06919	-3.39561	0.49072	-0.00037	11.98585	0.38947	0.00597	0.68311
0.01262	6.62312	1.49829	-0.06867	-3.40125	0.48885	-0.00036	12.03327	0.38955	0.00587	0.68401
0.01292	6.66178	1.49953	-0.06808	-3.40736	0.48678	-0.00036	12.08438	0.38964	0.00577	0.68496
0.01322	6.70230	1.50089	-0.06743	-3.41370	0.48450	-0.00035	12.13704	0.38978	0.00566	0.68599
0.01353	6.74417	1.50238	-0.06673	-3.42015	0.48191	-0.00035	12.18994	0.38999	0.00555	0.68711
0.01385	6.79023	1.50404	-0.06596	-3.42720	0.47900	-0.00034	12.24833	0.39023	0.00543	0.68834
0.01417	6.84438	1.50592	-0.06513	-3.43553	0.47578	-0.00033	12.31971	0.39045	0.00529	0.68979
0.01451	6.90564	1.50808	-0.06419	-3.44495	0.47222	-0.00032	12.40246	0.39068	0.00511	0.69159
0.01485	6.96808	1.51052	-0.06311	-3.45438	0.46824	-0.00032	12.48522	0.39104	0.00490	0.69376
0.01520	7.02497	1.51323	-0.06185	-3.46267	0.46376	-0.00031	12.55369	0.39164	0.00468	0.69613
0.01556	7.07349	1.51625	-0.06043	-3.46943	0.45867	-0.00031	12.60018	0.39255	0.00448	0.69845
0.01592	7.11372	1.51949	-0.05887	-3.47456	0.45280	-0.00031	12.62474	0.39376	0.00432	0.70076
0.01630	7.15015	1.52279	-0.05721	-3.47858	0.44609	-0.00031	12.63899	0.39518	0.00415	0.70326
0.01668	7.19447	1.52625	-0.05548	-3.48345	0.43870	-0.00031	12.66750	0.39662	0.00397	0.70611
0.01707	7.24547	1.53021	-0.05367	-3.48922	0.43067	-0.00031	12.70588	0.39816	0.00378	0.70924
0.01748	7.28119	1.53493	-0.05169	-3.49234	0.42192	-0.00032	12.70840	0.40022	0.00362	0.71246
0.01789	7.28486	1.54034	-0.04952	-3.49000	0.41234	-0.00033	12.64128	0.40307	0.00352	0.71556
0.01831	7.25069	1.54596	-0.04712	-3.48098	0.40154	-0.00035	12.49681	0.40672	0.00349	0.71836
0.01874	7.17616	1.55130	-0.04442	-3.46450	0.38914	-0.00038	12.27799	0.41112	0.00355	0.72060
0.01918	7.05372	1.55632	-0.04142	-3.43923	0.37548	-0.00042	11.97707	0.41636	0.00377	0.72188
0.01963	6.86873	1.56130	-0.03816	-3.40272	0.36106	-0.00047	11.57217	0.42277	0.00411	0.72248
0.02009	6.62639	1.56662	-0.03473	-3.35611	0.34654	-0.00053	11.07620	0.43038	0.00448	0.72312
0.02057	6.35545	1.57254	-0.03132	-3.30492	0.33290	-0.00061	10.53999	0.43877	0.00479	0.72430
0.02105	6.08217	1.57882	-0.02809	-3.25408	0.32025	-0.00069	10.00644	0.44742	0.00502	0.72605
0.02154	5.83177	1.58497	-0.02517	-3.20791	0.30795	-0.00075	9.51721	0.45577	0.00522	0.72773
0.02205	5.62538	1.59077	-0.02260	-3.16997	0.29562	-0.00081	9.10618	0.46327	0.00554	0.72837
0.02257	5.46110	1.59606	-0.02035	-3.13959	0.28298	-0.00084	8.77089	0.46985	0.00603	0.72746
0.02310	5.32338	1.60015	-0.01829	-3.11324	0.26955	-0.00087	8.49121	0.47565	0.00660	0.72562
0.02364	5.20967	1.60284	-0.01626	-3.09019	0.25615	-0.00088	8.26641	0.48054	0.00708	0.72419
0.02420	5.12317	1.60492	-0.01430	-3.07182	0.24427	-0.00090	8.09656	0.48450	0.00738	0.72383
0.02477	5.03887	1.60709	-0.01253	-3.05459	0.23416	-0.00091	7.93343	0.48822	0.00759	0.72414
0.02535	4.90118	1.60889	-0.01088	-3.02851	0.22443	-0.00093	7.68813	0.49310	0.00783	0.72437
0.02595	4.67894	1.60959	-0.00924	-2.98727	0.21338	-0.00096	7.31754	0.50003	0.00826	0.72348
0.02656	4.40634	1.60943	-0.00762	-2.93668	0.20121	-0.00100	6.88107	0.50839	0.00893	0.72096
0.02719	4.13059	1.60914	-0.00598	-2.88534	0.18953	-0.00105	6.45452	0.51710	0.00985	0.71677
0.02783	3.86793	1.60947	-0.00420	-2.83669	0.18042	-0.00109	6.06339	0.52565	0.01102	0.71089
0.02848	3.61872	1.61080	-0.00218	-2.79137	0.17491	-0.00115	5.70611	0.53395	0.01250	0.70311
0.02915	3.38673	1.61259	-0.00011	-2.75002	0.17140	-0.00120	5.37966	0.54192	0.01424	0.69350
0.02984	3.18585	1.61343	0.00162	-2.71412	0.16746	-0.00124	5.09481	0.54911	0.01595	0.68387
0.03054	3.02469	1.61252	0.00273	-2.68425	0.16196	-0.00126	4.86137	0.55513	0.01734	0.67619
0.03126	2.90894	1.61093	0.00315	-2.66174	0.15558	-0.00126	4.68854	0.55975	0.01836	0.67111
0.03199	2.84993	1.61004	0.00290	-2.64933	0.14970	-0.00126	4.59090	0.56258	0.01900	0.66886
0.03275	2.83886	1.61023	0.00221	-2.64579	0.14435	-0.00125	4.55659	0.56388	0.01927	0.66938
0.03352	2.83843	1.61156	0.00153	-2.64481	0.13847	-0.00124	4.54110	0.56481	0.01928	0.67184
0.03430	2.80754	1.61386	0.00137	-2.63913	0.13176	-0.00124	4.49889	0.56659	0.01918	0.67496
0.03511	2.72554	1.61660	0.00198	-2.62458	0.12531	-0.00126	4.41070	0.56970	0.01916	0.67746
0.03594	2.59792	1.61945	0.00325	-2.60183	0.12073	-0.00130	4.28436	0.57390	0.01943	0.67793
0.03678	2.44595	1.62198	0.00473	-2.57455	0.11822	-0.00135	4.13735	0.57871	0.02009	0.67576
0.03765	2.29628	1.62347	0.00587	-2.54736	0.11687	-0.00140	3.98822	0.58354	0.02097	0.67199
0.03854	2.17109	1.62333	0.00632	-2.52406	0.11636	-0.00144	3.85386	0.58777	0.02182	0.66827
0.03944	2.06997	1.62057	0.00602	-2.50388	0.11645	-0.00145	3.73317	0.59122	0.02243	0.66571
0.04037	1.98285	1.61430	0.00500	-2.48415	0.11618	-0.00146	3.61779	0.59404	0.02283	0.66414
0.04132	1.92384	1.60456	0.00307	-2.46716	0.11429	-0.00144	3.52359	0.59574	0.02312	0.66275
0.04229	1.90919	1.59271	0.00025	-2.45653	0.10978	-0.00140	3.46912	0.59584	0.02337	0.66120
0.04329	1.93227	1.58100	-0.00297	-2.45264	0.10363	-0.00135	3.45279	0.59463	0.02356	0.65992
0.04431	1.96724	1.57109	-0.00591	-2.45223	0.09821	-0.00129	3.45383	0.59298	0.02362	0.65960
0.04535	1.98059	1.56342	-0.00815	-2.44986	0.09457	-0.00125	3.43936	0.59211	0.02373	0.65909

0.04642	1.95196	1.55798	-0.00962	-2.44211	0.09216	-0.00122	3.38686	0.59280	0.02424	0.65577
0.04751	1.87327	1.55415	-0.01039	-2.42706	0.09037	-0.00121	3.28821	0.59536	0.02531	0.64846
0.04863	1.74369	1.55083	-0.01069	-2.40326	0.08990	-0.00123	3.14713	0.59967	0.02680	0.63807
0.04977	1.58357	1.54725	-0.01081	-2.37320	0.09248	-0.00126	2.98936	0.60477	0.02850	0.62613
0.05094	1.42464	1.54349	-0.01099	-2.34238	0.09916	-0.00133	2.84737	0.60937	0.03020	0.61418
0.05214	1.29033	1.53973	-0.01135	-2.31521	0.10952	-0.00140	2.74053	0.61254	0.03156	0.60457
0.05337	1.19084	1.53600	-0.01199	-2.29385	0.12259	-0.00149	2.67295	0.61394	0.03227	0.59943
0.05462	1.13348	1.53254	-0.01310	-2.28030	0.13755	-0.00156	2.64546	0.61343	0.03225	0.59922
0.05591	1.12290	1.52965	-0.01478	-2.27595	0.15370	-0.00162	2.65861	0.61099	0.03162	0.60328
0.05722	1.15477	1.52735	-0.01703	-2.28018	0.17011	-0.00166	2.70736	0.60694	0.03053	0.61065
0.05857	1.21769	1.52560	-0.01977	-2.29083	0.18496	-0.00168	2.78078	0.60199	0.02919	0.62028
0.05995	1.29919	1.52500	-0.02285	-2.30611	0.19694	-0.00168	2.86713	0.59687	0.02786	0.63035
0.06136	1.38847	1.52670	-0.02588	-2.32508	0.20652	-0.00166	2.95702	0.59214	0.02684	0.63854
0.06280	1.47928	1.53123	-0.02857	-2.34718	0.21426	-0.00163	3.04500	0.58803	0.02629	0.64358
0.06428	1.55635	1.53771	-0.03079	-2.36892	0.21929	-0.00160	3.11560	0.58503	0.02617	0.64542
0.06579	1.59545	1.54438	-0.03258	-2.38430	0.22035	-0.00157	3.14466	0.58382	0.02633	0.64496
0.06734	1.58750	1.54937	-0.03416	-2.38992	0.21686	-0.00154	3.12380	0.58451	0.02652	0.64405
0.06893	1.54158	1.55136	-0.03579	-2.38605	0.20911	-0.00151	3.06426	0.58649	0.02651	0.64413
0.07055	1.46698	1.54976	-0.03768	-2.37366	0.19827	-0.00149	2.97912	0.58920	0.02627	0.64538
0.07221	1.37481	1.54482	-0.03989	-2.35488	0.18649	-0.00146	2.88307	0.59201	0.02586	0.64729
0.07391	1.28459	1.53751	-0.04248	-2.33418	0.17607	-0.00145	2.79616	0.59409	0.02539	0.64919
0.07565	1.20482	1.52878	-0.04543	-2.31417	0.16771	-0.00144	2.72462	0.59518	0.02508	0.64987
0.07743	1.13173	1.51891	-0.04866	-2.29460	0.16088	-0.00144	2.66267	0.59557	0.02500	0.64892
0.07925	1.05587	1.50803	-0.05198	-2.27374	0.15580	-0.00144	2.60211	0.59565	0.02499	0.64741
0.08111	0.96863	1.49663	-0.05518	-2.25007	0.15373	-0.00145	2.53764	0.59579	0.02487	0.64678
0.08302	0.86726	1.48516	-0.05818	-2.22323	0.15544	-0.00149	2.46803	0.59618	0.02450	0.64809
0.08498	0.75574	1.47383	-0.06110	-2.19411	0.16029	-0.00154	2.39491	0.59683	0.02390	0.65153
0.08697	0.64683	1.46255	-0.06415	-2.16516	0.16672	-0.00159	2.32632	0.59737	0.02317	0.65663
0.08902	0.55619	1.45121	-0.06756	-2.13948	0.17309	-0.00163	2.27271	0.59720	0.02236	0.66295
0.09112	0.49633	1.44004	-0.07140	-2.11984	0.17906	-0.00166	2.24322	0.59576	0.02154	0.66979
0.09326	0.47461	1.42937	-0.07562	-2.10802	0.18504	-0.00166	2.24455	0.59263	0.02070	0.67692
0.09545	0.48770	1.41935	-0.08009	-2.10365	0.19069	-0.00165	2.27428	0.58799	0.01980	0.68442
0.09770	0.52322	1.41013	-0.08457	-2.10456	0.19520	-0.00162	2.32225	0.58251	0.01882	0.69245
0.10000	0.56880	1.40212	-0.08886	-2.10871	0.19814	-0.00158	2.37950	0.57681	0.01787	0.70034
0.10235	0.60933	1.39560	-0.09277	-2.11337	0.19922	-0.00153	2.43397	0.57161	0.01707	0.70722
0.10476	0.63401	1.39094	-0.09608	-2.11680	0.19891	-0.00148	2.47587	0.56744	0.01657	0.71218
0.10723	0.64042	1.38842	-0.09871	-2.11882	0.19820	-0.00144	2.50310	0.56438	0.01644	0.71465
0.10975	0.62918	1.38794	-0.10065	-2.11938	0.19781	-0.00141	2.51687	0.56231	0.01666	0.71469
0.11233	0.59787	1.38859	-0.10211	-2.11693	0.19789	-0.00139	2.51552	0.56119	0.01709	0.71322
0.11498	0.53883	1.38903	-0.10331	-2.10866	0.19812	-0.00139	2.49118	0.56120	0.01757	0.71133
0.11768	0.45734	1.38806	-0.10459	-2.09445	0.19850	-0.00140	2.44771	0.56199	0.01795	0.70988
0.12045	0.36700	1.38507	-0.10618	-2.07631	0.19956	-0.00142	2.39736	0.56287	0.01811	0.70982
0.12328	0.28673	1.38033	-0.10818	-2.05804	0.20248	-0.00144	2.35798	0.56293	0.01799	0.71149
0.12619	0.23048	1.37475	-0.11058	-2.04321	0.20837	-0.00147	2.34224	0.56162	0.01763	0.71460
0.12916	0.20360	1.36933	-0.11332	-2.03385	0.21832	-0.00150	2.35533	0.55876	0.01716	0.71847
0.13219	0.20391	1.36492	-0.11631	-2.03046	0.23268	-0.00153	2.39535	0.55461	0.01672	0.72217
0.13531	0.22583	1.36227	-0.11940	-2.03272	0.25158	-0.00156	2.45753	0.54961	0.01650	0.72451
0.13849	0.26022	1.36163	-0.12247	-2.03914	0.27413	-0.00161	2.53370	0.54430	0.01660	0.72481
0.14175	0.28737	1.36234	-0.12541	-2.04530	0.29786	-0.00166	2.60386	0.53962	0.01684	0.72424
0.14508	0.29545	1.36358	-0.12804	-2.04827	0.32040	-0.00172	2.65521	0.53603	0.01701	0.72411
0.14850	0.29340	1.36572	-0.13039	-2.05012	0.34086	-0.00178	2.69568	0.53321	0.01712	0.72437
0.15199	0.28641	1.36880	-0.13255	-2.05183	0.35956	-0.00183	2.73073	0.53089	0.01709	0.72572
0.15557	0.27326	1.37258	-0.13457	-2.05294	0.37692	-0.00189	2.75990	0.52902	0.01681	0.72880
0.15923	0.25088	1.37688	-0.13640	-2.05272	0.39177	-0.00194	2.77977	0.52773	0.01629	0.73368
0.16298	0.21921	1.38163	-0.13803	-2.05120	0.40388	-0.00199	2.78972	0.52700	0.01554	0.74014
0.16681	0.17986	1.38620	-0.13952	-2.04800	0.41343	-0.00203	2.79234	0.52663	0.01453	0.74858
0.17074	0.13687	1.39066	-0.14100	-2.04399	0.42125	-0.00207	2.79107	0.52647	0.01337	0.75830
0.17475	0.09926	1.39586	-0.14251	-2.04172	0.42764	-0.00210	2.79508	0.52624	0.01222	0.76796
0.17887	0.06284	1.40166	-0.14410	-2.04051	0.43199	-0.00212	2.79747	0.52620	0.01122	0.77660
0.18307	0.02152	1.40712	-0.14585	-2.03847	0.43286	-0.00213	2.78910	0.52659	0.01024	0.78498
0.18738	-0.02481	1.41300	-0.14761	-2.03625	0.43205	-0.00214	2.77141	0.52743	0.00933	0.79281
0.19179	-0.08268	1.41904	-0.14928	-2.03245	0.43058	-0.00215	2.73884	0.52886	0.00849	0.79991
0.19631	-0.15115	1.42496	-0.15094	-2.02699	0.42939	-0.00216	2.69392	0.53068	0.00781	0.80564
0.20092	-0.24107	1.42991	-0.15261	-2.01721	0.42694	-0.00217	2.62462	0.53334	0.00743	0.80905
0.20565	-0.35934	1.43381	-0.15429	-2.00172	0.42350	-0.00220	2.52554	0.53713	0.00735	0.81043
0.21049	-0.49450	1.43693	-0.15610	-1.98283	0.41829	-0.00222	2.41062	0.54161	0.00744	0.81067
0.21544	-0.62829	1.43879	-0.15819	-1.96331	0.41249	-0.00224	2.30145	0.54571	0.00749	0.81130
0.22051	-0.75059	1.43914	-0.16063	-1.94482	0.40586	-0.00225	2.20834	0.54880	0.00746	0.81267
0.22570	-0.86603	1.43841	-0.16336	-1.92703	0.39784	-0.00225	2.12568	0.55115	0.00749	0.81377
0.23101	-0.97769	1.43723	-0.16639	-1.90989	0.39074	-0.00225	2.05064	0.55292	0.00772	0.81368
0.23645	-1.08190	1.43573	-0.16978	-1.89425	0.38696	-0.00226	1.98700	0.55380	0.00818	0.81222
0.24201	-1.17441	1.43406	-0.17345	-1.88123	0.38503	-0.00227	1.93715	0.55365	0.00881	0.80979
0.24771	-1.25410	1.43178	-0.17733	-1.87061	0.38246	-0.00226	1.90105	0.55242	0.00939	0.80791
0.25354	-1.31399	1.43008	-0.18123	-1.86459	0.38234	-0.00225	1.88749	0.54971	0.00976	0.80745
0.25950	-1.36225	1.42826	-0.18523	-1.86097	0.38463	-0.00225	1.88788	0.54592	0.00978	0.80936
0.26561	-1.39808	1.42658	-0.18926	-1.86029	0.38774	-0.00223	1.90176	0.54116	0.00950	0.81317
0.27186	-1.41703	1.42539	-0.19338	-1.86368	0.39346	-0.00222	1.93396	0.53523	0.00902	0.81814
0.27826	-1.42052	1.42547	-0.19750	-1.87184	0.40013	-0.00220	1.98226	0.52850	0.00845	0.82349
0.28480	-1.41794	1.42619	-0.20161	-1.88236	0.40625	-0.00216	2.03744	0.52150	0.00774	0.82943
0.29150	-1.42156	1.42728	-0.20556	-1.89233	0.41194	-0.00213	2.08912	0.51483	0.00687	0.83612
0.29836	-1.43041	1.42919	-0.20940	-1.90230	0.41906	-0.00211	2.13862	0.50848	0.00588	0.84331

0.30539	-1.45183	1.43168	-0.21310	-1.91051	0.42524	-0.00209	2.17835	0.50283	0.00488	0.85032
0.31257	-1.49106	1.43466	-0.21665	-1.91586	0.42872	-0.00206	2.20218	0.49819	0.00401	0.85625
0.31993	-1.54921	1.43774	-0.22019	-1.91773	0.42996	-0.00204	2.20964	0.49443	0.00335	0.86010
0.32745	-1.62637	1.44012	-0.22390	-1.91525	0.42928	-0.00203	2.20072	0.49134	0.00265	0.86408
0.33517	-1.71365	1.44175	-0.22800	-1.91010	0.42715	-0.00201	2.18405	0.48846	0.00192	0.86808
0.34304	-1.81420	1.44351	-0.23222	-1.90224	0.42517	-0.00200	2.15807	0.48605	0.00127	0.87128
0.35112	-1.92656	1.44594	-0.23647	-1.89237	0.42371	-0.00201	2.12552	0.48409	0.00086	0.87249
0.35938	-2.04773	1.44781	-0.24098	-1.87990	0.42192	-0.00203	2.08778	0.48231	0.00055	0.87268
0.36784	-2.17192	1.44863	-0.24594	-1.86571	0.41935	-0.00204	2.05062	0.48019	0.00018	0.87313
0.37649	-2.28470	1.44974	-0.25126	-1.85419	0.41852	-0.00206	2.02870	0.47713	-0.00007	0.87269
0.38536	-2.38344	1.45129	-0.25691	-1.84604	0.42164	-0.00208	2.02502	0.47299	0.00006	0.86982
0.39442	-2.48123	1.45290	-0.26272	-1.83793	0.42820	-0.00212	2.02826	0.46833	0.00047	0.86486
0.40370	-2.57842	1.45445	-0.26869	-1.82983	0.43561	-0.00215	2.03753	0.46317	0.00105	0.85852
0.41321	-2.67958	1.45556	-0.27484	-1.82045	0.44266	-0.00219	2.04713	0.45781	0.00174	0.85132
0.42292	-2.78547	1.45613	-0.28114	-1.80954	0.44866	-0.00223	2.05566	0.45232	0.00249	0.84397
0.43288	-2.89908	1.45660	-0.28743	-1.79690	0.45439	-0.00227	2.06131	0.44683	0.00327	0.83656
0.44307	-3.01833	1.45701	-0.29363	-1.78302	0.45912	-0.00231	2.06520	0.44130	0.00410	0.82904
0.45349	-3.13993	1.45730	-0.29975	-1.76847	0.46362	-0.00235	2.07063	0.43558	0.00492	0.82189
0.46417	-3.26402	1.45745	-0.30580	-1.75317	0.46768	-0.00239	2.07740	0.42965	0.00573	0.81518
0.47508	-3.38973	1.45798	-0.31172	-1.73792	0.47179	-0.00242	2.08635	0.42355	0.00668	0.80784
0.48626	-3.51591	1.45896	-0.31751	-1.72308	0.47647	-0.00246	2.09825	0.41726	0.00789	0.79914
0.49771	-3.64200	1.46005	-0.32321	-1.70837	0.48163	-0.00250	2.11322	0.41075	0.00930	0.78937
0.50942	-3.76842	1.46147	-0.32871	-1.69395	0.48680	-0.00253	2.13139	0.40405	0.01087	0.77879
0.52140	-3.89673	1.46338	-0.33400	-1.67949	0.49202	-0.00256	2.15157	0.39726	0.01249	0.76798
0.53367	-4.02743	1.46569	-0.33910	-1.66485	0.49699	-0.00260	2.17212	0.39049	0.01415	0.75714
0.54624	-4.16037	1.46810	-0.34404	-1.64972	0.50126	-0.00263	2.19157	0.38380	0.01577	0.74679
0.55910	-4.29515	1.47062	-0.34878	-1.63422	0.50471	-0.00267	2.21009	0.37719	0.01727	0.73732
0.57225	-4.43114	1.47356	-0.35329	-1.61877	0.50771	-0.00270	2.22892	0.37062	0.01861	0.72881
0.58569	-4.56703	1.47704	-0.35758	-1.60375	0.51051	-0.00273	2.24944	0.36408	0.01980	0.72129
0.59948	-4.70170	1.48083	-0.36172	-1.58926	0.51320	-0.00275	2.27267	0.35750	0.02085	0.71473
0.61357	-4.83373	1.48471	-0.36573	-1.57534	0.51580	-0.00278	2.29837	0.35091	0.02177	0.70914
0.62802	-4.96383	1.48879	-0.36963	-1.56203	0.51844	-0.00281	2.32710	0.34429	0.02257	0.70444
0.64280	-5.09299	1.49334	-0.37337	-1.54932	0.52114	-0.00283	2.35807	0.33769	0.02326	0.70049
0.65794	-5.22234	1.49846	-0.37696	-1.53711	0.52383	-0.00285	2.39038	0.33117	0.02386	0.69713
0.67340	-5.35170	1.50392	-0.38039	-1.52520	0.52632	-0.00287	2.42244	0.32481	0.02440	0.69435
0.68927	-5.48130	1.50948	-0.38373	-1.51336	0.52846	-0.00289	2.45391	0.31858	0.02489	0.69220
0.70547	-5.61035	1.51508	-0.38694	-1.50165	0.53027	-0.00291	2.48450	0.31252	0.02533	0.69056
0.72207	-5.74036	1.52101	-0.39002	-1.49007	0.53186	-0.00293	2.51422	0.30662	0.02571	0.68921
0.73910	-5.87197	1.52752	-0.39292	-1.47875	0.53337	-0.00294	2.54303	0.30091	0.02604	0.68789
0.75649	-6.00441	1.53462	-0.39562	-1.46780	0.53490	-0.00296	2.57113	0.29540	0.02632	0.68629
0.77429	-6.13724	1.54211	-0.39816	-1.45717	0.53641	-0.00298	2.59851	0.29009	0.02658	0.68409
0.79246	-6.26885	1.54968	-0.40055	-1.44687	0.53788	-0.00299	2.62554	0.28497	0.02684	0.68102
0.81116	-6.40017	1.55735	-0.40284	-1.43685	0.53935	-0.00301	2.65282	0.27996	0.02710	0.67721
0.83022	-6.53012	1.56522	-0.40498	-1.42732	0.54098	-0.00302	2.68057	0.27511	0.02733	0.67297
0.84976	-6.66023	1.57358	-0.40694	-1.41830	0.54293	-0.00303	2.70929	0.27040	0.02753	0.66864
0.86972	-6.79033	1.58252	-0.40873	-1.40987	0.54530	-0.00305	2.73893	0.26585	0.02766	0.66461
0.89023	-6.92101	1.59202	-0.41035	-1.40195	0.54808	-0.00306	2.76978	0.26141	0.02774	0.66131
0.91116	-7.05054	1.60175	-0.41185	-1.39452	0.55117	-0.00307	2.80141	0.25712	0.02777	0.65919
0.93257	-7.17879	1.61148	-0.41325	-1.38742	0.55445	-0.00309	2.83363	0.25293	0.02775	0.65825
0.95456	-7.30609	1.62118	-0.41458	-1.38059	0.55789	-0.00310	2.86646	0.24884	0.02770	0.65845
0.97704	-7.43236	1.63090	-0.41580	-1.37407	0.56150	-0.00312	2.89967	0.24487	0.02761	0.65974
1.00000	-7.55830	1.64085	-0.41689	-1.36791	0.56535	-0.00313	2.93316	0.24103	0.02748	0.66202
1.02354	-7.68506	1.65127	-0.41782	-1.36211	0.56952	-0.00314	2.96702	0.23732	0.02729	0.66521
1.04767	-7.81286	1.66222	-0.41859	-1.35668	0.57402	-0.00316	3.00112	0.23377	0.02704	0.66917
1.07227	-7.94088	1.67355	-0.41920	-1.35160	0.57877	-0.00317	3.03496	0.23037	0.02676	0.67372
1.09745	-8.06916	1.68510	-0.41968	-1.34676	0.58367	-0.00318	3.06829	0.22713	0.02645	0.67873
1.12334	-8.19769	1.69673	-0.42006	-1.34206	0.58862	-0.00320	3.10098	0.22402	0.02614	0.68411
1.14982	-8.32560	1.70825	-0.42035	-1.33745	0.59352	-0.00321	3.13235	0.22107	0.02583	0.68973
1.17675	-8.45228	1.71959	-0.42055	-1.33295	0.59833	-0.00322	3.16202	0.21828	0.02552	0.69545
1.20453	-8.58004	1.73103	-0.42065	-1.32850	0.60314	-0.00323	3.19015	0.21563	0.02522	0.70122
1.23289	-8.70809	1.74262	-0.42061	-1.32418	0.60797	-0.00325	3.21641	0.21317	0.02490	0.70687
1.26183	-8.83681	1.75450	-0.42043	-1.32006	0.61288	-0.00326	3.24079	0.21091	0.02457	0.71236
1.29149	-8.96704	1.76681	-0.42008	-1.31614	0.61794	-0.00327	3.26352	0.20882	0.02420	0.71781
1.32188	-9.09863	1.77955	-0.41958	-1.31243	0.62315	-0.00328	3.28474	0.20691	0.02380	0.72328
1.35300	-9.23118	1.79262	-0.41894	-1.30892	0.62848	-0.00330	3.30451	0.20516	0.02338	0.72887
1.38485	-9.36414	1.80588	-0.41817	-1.30559	0.63388	-0.00331	3.32284	0.20358	0.02294	0.73467
1.41743	-9.49693	1.81917	-0.41730	-1.30240	0.63929	-0.00332	3.33977	0.20214	0.02249	0.74081
1.45075	-9.62912	1.83238	-0.41633	-1.29933	0.64465	-0.00333	3.35530	0.20083	0.02205	0.74731
1.48500	-9.76143	1.84551	-0.41526	-1.29631	0.64995	-0.00334	3.36922	0.19965	0.02160	0.75422
1.51999	-9.89302	1.85851	-0.41411	-1.29338	0.65517	-0.00335	3.38149	0.19861	0.02116	0.76148
1.55569	-10.02407	1.87142	-0.41285	-1.29055	0.66031	-0.00336	3.39217	0.19770	0.02071	0.76908
1.59236	-10.15569	1.88443	-0.41147	-1.28782	0.66548	-0.00337	3.40149	0.19691	0.02024	0.77706
1.62973	-10.28725	1.89756	-0.40997	-1.28526	0.67067	-0.00338	3.40958	0.19624	0.01976	0.78536
1.66806	-10.41982	1.91096	-0.40832	-1.28288	0.67597	-0.00339	3.41671	0.19569	0.01926	0.79401
1.70736	-10.55347	1.92467	-0.40652	-1.28068	0.68140	-0.00340	3.42309	0.19525	0.01872	0.80302
1.74764	-10.68814	1.93870	-0.40457	-1.27867	0.68697	-0.00340	3.42891	0.19489	0.01815	0.81238
1.78859	-10.82259	1.95289	-0.40250	-1.27686	0.69261	-0.00341	3.43428	0.19463	0.01757	0.82198
1.83083	-10.95857	1.96738	-0.40029	-1.27520	0.69838	-0.00342	3.43941	0.19442	0.01697	0.83194
1.87371	-11.09366	1.98185	-0.39799	-1.27369	0.70415	-0.00343	3.44427	0.19427	0.01637	0.84207
1.91791	-11.22968	1.99644	-0.39557	-1.27228	0.70997	-0.00343	3.44889	0.19415	0.01577	0.85244
1.96309	-11.36522	2.01095	-0.39305	-1.27094	0.71576	-0.00344	3.45329	0.19407	0.01519	0.86283

2.00924	-11.50003	2.02532	-0.39046	-1.26968	0.72149	-0.00345	3.45751	0.19401	0.01463	0.87312
2.05634	-11.63396	2.03950	-0.38780	-1.26847	0.72712	-0.00345	3.46143	0.19397	0.01409	0.88313
2.10482	-11.76818	2.05360	-0.38503	-1.26729	0.73270	-0.00346	3.46503	0.19395	0.01358	0.89282
2.15424	-11.90147	2.06751	-0.38219	-1.26616	0.73818	-0.00346	3.46833	0.19395	0.01310	0.90189
2.20507	-12.03514	2.08140	-0.37924	-1.26506	0.74363	-0.00347	3.47142	0.19396	0.01264	0.91033
2.25683	-12.16802	2.09517	-0.37621	-1.26404	0.74900	-0.00347	3.47442	0.19399	0.01221	0.91812
2.31000	-12.30146	2.10899	-0.37306	-1.26309	0.75437	-0.00348	3.47744	0.19402	0.01179	0.92541
2.36463	-12.43557	2.12291	-0.36979	-1.26222	0.75976	-0.00348	3.48046	0.19407	0.01138	0.93233
2.42014	-12.56906	2.13682	-0.36643	-1.26146	0.76512	-0.00349	3.48352	0.19412	0.01098	0.93892
2.47709	-12.70323	2.15086	-0.36294	-1.26080	0.77052	-0.00349	3.48686	0.19418	0.01058	0.94543
2.53550	-12.83804	2.16505	-0.35934	-1.26026	0.77597	-0.00349	3.49044	0.19425	0.01019	0.95200
2.59471	-12.97197	2.17924	-0.35567	-1.25983	0.78140	-0.00349	3.49421	0.19432	0.00980	0.95871
2.65604	-13.10781	2.19369	-0.35183	-1.25952	0.78692	-0.00350	3.49851	0.19439	0.00940	0.96576
2.71887	-13.24391	2.20825	-0.34790	-1.25932	0.79247	-0.00350	3.50312	0.19445	0.00900	0.97312
2.78242	-13.37861	2.22270	-0.34392	-1.25921	0.79797	-0.00350	3.50802	0.19452	0.00862	0.98076
2.84819	-13.51470	2.23730	-0.33979	-1.25921	0.80351	-0.00350	3.51351	0.19457	0.00823	0.98894
2.91545	-13.65063	2.25195	-0.33563	-1.25928	0.80903	-0.00350	3.51897	0.19463	0.00785	0.99760
2.98329	-13.78429	2.26627	-0.33139	-1.25943	0.81442	-0.00350	3.52497	0.19467	0.00748	1.00653
3.05344	-13.91896	2.28072	-0.32711	-1.25964	0.81982	-0.00350	3.53088	0.19472	0.00713	1.01573
3.12598	-14.05466	2.29518	-0.32266	-1.25991	0.82519	-0.00350	3.53730	0.19475	0.00678	1.02501
3.19898	-14.18740	2.30929	-0.31828	-1.26021	0.83039	-0.00350	3.54350	0.19479	0.00646	1.03385
3.27439	-14.32109	2.32340	-0.31374	-1.26057	0.83554	-0.00349	3.54999	0.19482	0.00615	1.04225
3.35121	-14.45324	2.33727	-0.30924	-1.26094	0.84056	-0.00349	3.55635	0.19484	0.00587	1.04991
3.43053	-14.58634	2.35113	-0.30457	-1.26137	0.84551	-0.00349	3.56291	0.19487	0.00559	1.05719
3.51124	-14.71762	2.36474	-0.29997	-1.26180	0.85034	-0.00349	3.56921	0.19489	0.00533	1.06420
3.59324	-14.84769	2.37806	-0.29522	-1.26229	0.85500	-0.00348	3.57580	0.19491	0.00508	1.07132
3.67782	-14.97800	2.39147	-0.29058	-1.26276	0.85963	-0.00348	3.58176	0.19493	0.00484	1.07889
3.76506	-15.10867	2.40458	-0.28560	-1.26334	0.86413	-0.00347	3.58871	0.19495	0.00459	1.08743
3.85356	-15.23814	2.41787	-0.28092	-1.26386	0.86858	-0.00347	3.59435	0.19498	0.00437	1.09655
3.94477	-15.36703	2.43058	-0.27584	-1.26453	0.87286	-0.00346	3.60151	0.19500	0.00413	1.10643
4.03714	-15.49552	2.44366	-0.27101	-1.26515	0.87711	-0.00346	3.60727	0.19504	0.00392	1.11642
4.13223	-15.62269	2.45624	-0.26604	-1.26586	0.88124	-0.00345	3.61405	0.19505	0.00370	1.12658
4.23012	-15.75134	2.46892	-0.26080	-1.26666	0.88530	-0.00344	3.62090	0.19509	0.00348	1.13656
4.32900	-15.87784	2.48178	-0.25605	-1.26737	0.88934	-0.00344	3.62672	0.19510	0.00330	1.14567
4.43066	-16.00297	2.49370	-0.25067	-1.26831	0.89317	-0.00343	3.63449	0.19514	0.00308	1.15441
4.53515	-16.13072	2.50658	-0.24558	-1.26920	0.89709	-0.00342	3.64090	0.19517	0.00289	1.16240
4.64253	-16.25641	2.51906	-0.24061	-1.27012	0.90094	-0.00341	3.64803	0.19516	0.00271	1.16980
4.75059	-16.37956	2.53060	-0.23501	-1.27124	0.90452	-0.00341	3.65604	0.19523	0.00249	1.17676
4.86145	-16.50532	2.54349	-0.23008	-1.27222	0.90826	-0.00340	3.66275	0.19522	0.00232	1.18294
4.97760	-16.63002	2.55562	-0.22491	-1.27333	0.91191	-0.00339	3.67088	0.19521	0.00214	1.18892
5.09424	-16.75261	2.56690	-0.21907	-1.27463	0.91531	-0.00338	3.67919	0.19530	0.00191	1.19463
5.21376	-16.87823	2.57986	-0.21411	-1.27575	0.91889	-0.00337	3.68672	0.19526	0.00175	1.19965
5.33618	-16.99908	2.59162	-0.20914	-1.27694	0.92229	-0.00336	3.69533	0.19521	0.00158	1.20452
5.46150	-17.11891	2.60215	-0.20307	-1.27841	0.92546	-0.00335	3.70391	0.19534	0.00134	1.20964
5.58971	-17.24314	2.61468	-0.19784	-1.27972	0.92879	-0.00334	3.71231	0.19531	0.00117	1.21431
5.72082	-17.36388	2.62703	-0.19331	-1.28093	0.93206	-0.00332	3.72187	0.19515	0.00103	1.21888
5.85823	-17.48192	2.63683	-0.18712	-1.28254	0.93507	-0.00331	3.73064	0.19530	0.00078	1.22438
5.99520	-17.60187	2.64790	-0.18126	-1.28410	0.93807	-0.00330	3.73908	0.19540	0.00056	1.22973
6.13497	-17.72384	2.66088	-0.17681	-1.28538	0.94113	-0.00329	3.74969	0.19516	0.00044	1.23464
6.28141	-17.83949	2.67132	-0.17172	-1.28684	0.94399	-0.00328	3.75982	0.19509	0.00026	1.24024
6.42674	-17.95007	2.67970	-0.16527	-1.28859	0.94662	-0.00327	3.76667	0.19541	-0.00002	1.24643
6.57895	-18.07009	2.69092	-0.15955	-1.29022	0.94939	-0.00325	3.77578	0.19545	-0.00022	1.25243
6.73401	-18.19122	2.70398	-0.15542	-1.29154	0.95210	-0.00324	3.78921	0.19503	-0.00031	1.25790
6.89180	-18.29876	2.71273	-0.15032	-1.29307	0.95458	-0.00323	3.79855	0.19505	-0.00050	1.26416
7.05716	-18.40679	2.71968	-0.14338	-1.29503	0.95707	-0.00322	3.80285	0.19557	-0.00083	1.27136
7.22022	-18.51848	2.72920	-0.13758	-1.29675	0.95947	-0.00320	3.81060	0.19572	-0.00105	1.27771
7.39098	-18.63846	2.74185	-0.13326	-1.29818	0.96185	-0.00319	3.82501	0.19529	-0.00114	1.28327
7.56430	-18.74487	2.75125	-0.12909	-1.29957	0.96401	-0.00317	3.83736	0.19503	-0.00126	1.28879
7.73994	-18.83641	2.75477	-0.12235	-1.30153	0.96623	-0.00317	3.83644	0.19585	-0.00163	1.29536
7.92393	-18.93857	2.76089	-0.11572	-1.30352	0.96843	-0.00316	3.83874	0.19643	-0.00195	1.30133
8.11030	-19.04706	2.76964	-0.11006	-1.30529	0.97056	-0.00315	3.84572	0.19661	-0.00218	1.30629
8.29876	-19.16185	2.78169	-0.10622	-1.30663	0.97252	-0.00313	3.86146	0.19607	-0.00223	1.30992
8.49618	-19.25490	2.78712	-0.10154	-1.30819	0.97445	-0.00312	3.86712	0.19627	-0.00244	1.31436
8.69565	-19.32787	2.78573	-0.09447	-1.31033	0.97632	-0.00311	3.85784	0.19760	-0.00291	1.32013
8.90472	-19.41516	2.78811	-0.08784	-1.31237	0.97806	-0.00311	3.85528	0.19844	-0.00329	1.32531
9.11577	-19.50527	2.79189	-0.08175	-1.31428	0.97973	-0.00310	3.85542	0.19904	-0.00362	1.33012
9.32836	-19.61266	2.80125	-0.07683	-1.31595	0.98163	-0.00308	3.86280	0.19909	-0.00379	1.33400
9.54198	-19.70584	2.80805	-0.07298	-1.31733	0.98330	-0.00307	3.87011	0.19908	-0.00392	1.33791
9.76563	-19.75084	2.80101	-0.06750	-1.31902	0.98412	-0.00307	3.86168	0.20013	-0.00436	1.34426
10.00000	-19.79376	2.79281	-0.06147	-1.32078	0.98449	-0.00307	3.85622	0.20101	-0.00483	1.35150

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Median stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 15 - 30 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	4.36631	2.34793	-0.09862	-3.87680	1.32227	-0.00003	20.47806	0.21254	-0.00644	0.44983
PGV	14.75734	1.62879	-0.15137	-4.54477	1.22818	0.00059	30.91611	0.20200	0.00160	0.43648
PGA	5.65724	1.58658	-0.06350	-3.32011	0.51734	-0.00077	10.02421	0.42119	-0.02183	0.73182
0.01000	5.67918	1.59581	-0.06149	-3.31863	0.49828	-0.00078	10.07070	0.42460	-0.00041	0.69975
0.01024	5.69174	1.59638	-0.06120	-3.32062	0.49759	-0.00078	10.08571	0.42466	-0.00043	0.70026
0.01048	5.70644	1.59699	-0.06089	-3.32298	0.49691	-0.00078	10.10404	0.42470	-0.00046	0.70078
0.01072	5.72333	1.59765	-0.06055	-3.32570	0.49621	-0.00078	10.12578	0.42472	-0.00049	0.70129
0.01097	5.74259	1.59837	-0.06020	-3.32882	0.49550	-0.00077	10.15114	0.42473	-0.00054	0.70182
0.01123	5.76454	1.59916	-0.05981	-3.33239	0.49476	-0.00077	10.18065	0.42470	-0.00059	0.70236
0.01150	5.78951	1.60001	-0.05940	-3.33647	0.49399	-0.00077	10.21486	0.42466	-0.00065	0.70292
0.01177	5.81777	1.60096	-0.05894	-3.34109	0.49318	-0.00077	10.25415	0.42458	-0.00072	0.70352
0.01205	5.84975	1.60201	-0.05845	-3.34633	0.49232	-0.00076	10.29918	0.42449	-0.00079	0.70416
0.01233	5.88614	1.60318	-0.05791	-3.35232	0.49139	-0.00076	10.35099	0.42436	-0.00089	0.70487
0.01262	5.92701	1.60448	-0.05732	-3.35905	0.49035	-0.00075	10.40957	0.42420	-0.00099	0.70567
0.01292	5.97183	1.60593	-0.05666	-3.36642	0.48918	-0.00075	10.47395	0.42404	-0.00111	0.70656
0.01322	6.02060	1.60753	-0.05594	-3.37442	0.48785	-0.00074	10.54410	0.42388	-0.00124	0.70754
0.01353	6.07422	1.60931	-0.05514	-3.38320	0.48638	-0.00074	10.62154	0.42372	-0.00139	0.70864
0.01385	6.13314	1.61130	-0.05426	-3.39284	0.48478	-0.00073	10.70681	0.42354	-0.00155	0.70989
0.01417	6.19605	1.61351	-0.05327	-3.40307	0.48294	-0.00073	10.79772	0.42340	-0.00174	0.71136
0.01451	6.26190	1.61595	-0.05216	-3.41368	0.48076	-0.00072	10.89248	0.42332	-0.00195	0.71303
0.01485	6.33187	1.61868	-0.05095	-3.42488	0.47823	-0.00072	10.99293	0.42330	-0.00218	0.71492
0.01520	6.40679	1.62175	-0.04961	-3.43683	0.47534	-0.00071	11.10005	0.42333	-0.00243	0.71707
0.01556	6.48488	1.62516	-0.04812	-3.44920	0.47206	-0.00070	11.21070	0.42345	-0.00271	0.71952
0.01592	6.56534	1.62899	-0.04645	-3.46180	0.46839	-0.00070	11.32429	0.42370	-0.00302	0.72236
0.01630	6.64585	1.63331	-0.04457	-3.47421	0.46434	-0.00070	11.43721	0.42413	-0.00337	0.72561
0.01668	6.72125	1.63818	-0.04251	-3.48560	0.45969	-0.00070	11.53874	0.42485	-0.00374	0.72915
0.01707	6.78589	1.64361	-0.04025	-3.49506	0.45400	-0.00071	11.61740	0.42598	-0.00410	0.73280
0.01748	6.83680	1.64948	-0.03780	-3.50195	0.44717	-0.00071	11.66911	0.42755	-0.00445	0.73654
0.01789	6.87473	1.65572	-0.03513	-3.50633	0.43969	-0.00073	11.69756	0.42949	-0.00481	0.74043
0.01831	6.89364	1.66240	-0.03221	-3.50728	0.43204	-0.00074	11.69295	0.43187	-0.00518	0.74456
0.01874	6.88076	1.66976	-0.02903	-3.50286	0.42431	-0.00077	11.63147	0.43495	-0.00557	0.74892
0.01918	6.83103	1.67782	-0.02561	-3.49242	0.41605	-0.00081	11.50153	0.43886	-0.00592	0.75316
0.01963	6.74866	1.68598	-0.02205	-3.47650	0.40647	-0.00085	11.30904	0.44348	-0.00618	0.75679
0.02009	6.63249	1.69372	-0.01843	-3.45470	0.39608	-0.00089	11.05678	0.44872	-0.00635	0.75993
0.02057	6.47313	1.70127	-0.01467	-3.42550	0.38639	-0.00094	10.73849	0.45468	-0.00645	0.76262
0.02105	6.28852	1.70919	-0.01079	-3.39218	0.37792	-0.00101	10.39240	0.46107	-0.00641	0.76428
0.02154	6.11719	1.71753	-0.00701	-3.36146	0.36930	-0.00106	10.07681	0.46729	-0.00622	0.76487
0.02205	5.95665	1.72614	-0.00348	-3.33332	0.35898	-0.00111	9.77244	0.47356	-0.00596	0.76493
0.02257	5.76819	1.73541	0.00009	-3.30163	0.34728	-0.00115	9.41529	0.48067	-0.00561	0.76446
0.02310	5.54579	1.74561	0.00396	-3.26537	0.33550	-0.00120	9.00878	0.48866	-0.00515	0.76316
0.02364	5.30924	1.75582	0.00799	-3.22708	0.32332	-0.00125	8.59178	0.49702	-0.00461	0.76126
0.02420	5.06501	1.76394	0.01178	-3.18638	0.30924	-0.00129	8.17273	0.50550	-0.00410	0.75937
0.02477	4.82112	1.76880	0.01514	-3.14373	0.29428	-0.00132	7.76684	0.51374	-0.00372	0.75817
0.02535	4.59030	1.77173	0.01813	-3.10187	0.28095	-0.00135	7.40089	0.52138	-0.00337	0.75700
0.02595	4.38075	1.77499	0.02085	-3.06368	0.26982	-0.00139	7.08489	0.52841	-0.00287	0.75478
0.02656	4.18071	1.78033	0.02350	-3.02876	0.25897	-0.00143	6.78974	0.53552	-0.00217	0.75137
0.02719	3.95205	1.78830	0.02649	-2.99132	0.24575	-0.00146	6.45586	0.54396	-0.00136	0.74717
0.02783	3.68612	1.79775	0.03003	-2.94910	0.23046	-0.00150	6.07688	0.55385	-0.00057	0.74303
0.02848	3.41743	1.80693	0.03380	-2.90663	0.21669	-0.00154	5.70673	0.56393	0.00006	0.74002
0.02915	3.16194	1.81423	0.03738	-2.86539	0.20671	-0.00159	5.36789	0.57340	0.00050	0.73837
0.02984	2.91307	1.81854	0.04049	-2.82325	0.19931	-0.00163	5.05101	0.58237	0.00090	0.73721
0.03054	2.67507	1.82047	0.04312	-2.78104	0.19175	-0.00167	4.75927	0.59093	0.00144	0.73527
0.03126	2.45730	1.82170	0.04543	-2.74163	0.18193	-0.00171	4.49999	0.59907	0.00216	0.73221
0.03199	2.26292	1.82265	0.04742	-2.70619	0.16933	-0.00173	4.27161	0.60676	0.00299	0.72824
0.03275	2.08596	1.82178	0.04898	-2.67264	0.15603	-0.00174	4.06635	0.61388	0.00377	0.72435
0.03352	1.92034	1.81936	0.05022	-2.64001	0.14617	-0.00175	3.88057	0.62035	0.00431	0.72200
0.03430	1.76914	1.81796	0.05146	-2.61085	0.14255	-0.00177	3.71871	0.62612	0.00454	0.72164
0.03511	1.65235	1.81848	0.05255	-2.58940	0.14522	-0.00180	3.59788	0.63053	0.00458	0.72249
0.03594	1.57951	1.81964	0.05313	-2.57638	0.15132	-0.00184	3.52140	0.63326	0.00463	0.72337
0.03678	1.53457	1.82007	0.05304	-2.56796	0.15626	-0.00187	3.46775	0.63504	0.00485	0.72323
0.03765	1.48308	1.81951	0.05258	-2.55792	0.15668	-0.00188	3.40308	0.63725	0.00532	0.72163
0.03854	1.39530	1.81864	0.05230	-2.54168	0.15299	-0.00189	3.30357	0.64092	0.00599	0.71920
0.03944	1.26687	1.81805	0.05255	-2.51901	0.14818	-0.00191	3.17009	0.64607	0.00664	0.71715
0.04037	1.12893	1.81717	0.05299	-2.49465	0.14438	-0.00192	3.03146	0.65160	0.00711	0.71621
0.04132	1.02074	1.81495	0.05298	-2.47429	0.14204	-0.00193	2.91861	0.65613	0.00746	0.71572
0.04229	0.95273	1.81136	0.05232	-2.45958	0.14095	-0.00193	2.83841	0.65928	0.00787	0.71438
0.04329	0.90165	1.80633	0.05130	-2.44627	0.13975	-0.00193	2.77280	0.66175	0.00841	0.71191
0.04431	0.84394	1.79926	0.05019	-2.42956	0.13717	-0.00193	2.70560	0.66424	0.00888	0.70933
0.04535	0.77471	1.79005	0.04888	-2.40872	0.13274	-0.00193	2.63207	0.66693	0.00921	0.70741

0.04642	0.70744	1.77986	0.04714	-2.38760	0.12708	-0.00193	2.55979	0.66948	0.00947	0.70595
0.04751	0.64584	1.77055	0.04520	-2.36867	0.12194	-0.00193	2.49282	0.67178	0.00972	0.70467
0.04863	0.58629	1.76340	0.04342	-2.35243	0.11899	-0.00194	2.43069	0.67389	0.00997	0.70335
0.04977	0.52154	1.75838	0.04188	-2.33784	0.11772	-0.00195	2.36524	0.67626	0.01040	0.70075
0.05094	0.46182	1.75440	0.04024	-2.32599	0.11698	-0.00195	2.29980	0.67866	0.01121	0.69567
0.05214	0.41678	1.75086	0.03838	-2.31774	0.11778	-0.00194	2.24360	0.68052	0.01237	0.68855
0.05337	0.38458	1.74719	0.03638	-2.31158	0.12147	-0.00194	2.20013	0.68161	0.01368	0.68090
0.05462	0.35003	1.74289	0.03444	-2.30369	0.12659	-0.00195	2.16075	0.68253	0.01489	0.67410
0.05591	0.30372	1.73796	0.03263	-2.29201	0.13038	-0.00196	2.11858	0.68387	0.01580	0.66933
0.05722	0.25131	1.73293	0.03083	-2.27800	0.13052	-0.00197	2.07564	0.68567	0.01629	0.66740
0.05857	0.21284	1.72802	0.02869	-2.26578	0.12629	-0.00196	2.04263	0.68725	0.01639	0.66813
0.05995	0.19312	1.72308	0.02606	-2.25659	0.11860	-0.00194	2.02025	0.68839	0.01623	0.67042
0.06136	0.17532	1.71790	0.02317	-2.24771	0.11024	-0.00192	1.99728	0.68957	0.01608	0.67257
0.06280	0.13832	1.71260	0.02041	-2.23564	0.10319	-0.00190	1.96130	0.69147	0.01617	0.67297
0.06428	0.07754	1.70692	0.01792	-2.21930	0.09580	-0.00189	1.90911	0.69439	0.01656	0.67123
0.06579	-0.00261	1.70006	0.01556	-2.19890	0.08605	-0.00187	1.84235	0.69826	0.01721	0.66769
0.06734	-0.10740	1.69146	0.01333	-2.17323	0.07419	-0.00186	1.75819	0.70326	0.01800	0.66298
0.06893	-0.21766	1.68149	0.01102	-2.14617	0.06346	-0.00186	1.67180	0.70824	0.01879	0.65809
0.07055	-0.31048	1.67187	0.00854	-2.12314	0.05785	-0.00186	1.60136	0.71185	0.01944	0.65411
0.07221	-0.37510	1.66358	0.00586	-2.10664	0.05918	-0.00187	1.55483	0.71339	0.01978	0.65218
0.07391	-0.41615	1.65678	0.00301	-2.09563	0.06682	-0.00190	1.52887	0.71313	0.01977	0.65252
0.07565	-0.44656	1.65142	0.00013	-2.08746	0.07864	-0.00193	1.51435	0.71195	0.01953	0.65430
0.07743	-0.48719	1.64665	-0.00256	-2.07749	0.09104	-0.00198	1.49593	0.71128	0.01919	0.65652
0.07925	-0.55029	1.64131	-0.00499	-2.06258	0.10010	-0.00202	1.46270	0.71210	0.01890	0.65835
0.08111	-0.62467	1.63508	-0.00732	-2.04465	0.10464	-0.00205	1.42000	0.71401	0.01873	0.65942
0.08302	-0.69280	1.62839	-0.00967	-2.02742	0.10611	-0.00207	1.37911	0.71597	0.01868	0.66011
0.08498	-0.73941	1.62191	-0.01217	-2.01433	0.10733	-0.00208	1.35079	0.71686	0.01867	0.66099
0.08697	-0.76172	1.61605	-0.01499	-2.00640	0.11072	-0.00209	1.33799	0.71622	0.01873	0.66179
0.08902	-0.76868	1.61034	-0.01824	-2.00162	0.11621	-0.00209	1.33529	0.71444	0.01894	0.66174
0.09112	-0.76692	1.60401	-0.02206	-1.99804	0.12312	-0.00210	1.33795	0.71193	0.01923	0.66107
0.09326	-0.74773	1.59706	-0.02655	-1.99704	0.13195	-0.00211	1.35182	0.70815	0.01942	0.66099
0.09545	-0.70631	1.59046	-0.03154	-2.00028	0.14363	-0.00212	1.38136	0.70284	0.01941	0.66192
0.09770	-0.64385	1.58502	-0.03678	-2.00831	0.15814	-0.00213	1.42698	0.69617	0.01921	0.66392
0.10000	-0.57435	1.58038	-0.04201	-2.01828	0.17342	-0.00214	1.47972	0.68915	0.01866	0.66812
0.10235	-0.51022	1.57588	-0.04705	-2.02738	0.18717	-0.00215	1.53033	0.68261	0.01764	0.67548
0.10476	-0.46303	1.57154	-0.05169	-2.03387	0.19865	-0.00215	1.56888	0.67731	0.01631	0.68502
0.10723	-0.43531	1.56743	-0.05593	-2.03765	0.20803	-0.00215	1.59198	0.67336	0.01491	0.69504
0.10975	-0.42089	1.56307	-0.05986	-2.03937	0.21490	-0.00213	1.60365	0.67032	0.01363	0.70429
0.11233	-0.42487	1.55789	-0.06346	-2.03738	0.21912	-0.00211	1.60144	0.66826	0.01257	0.71211
0.11498	-0.45172	1.55197	-0.06672	-2.03069	0.22170	-0.00210	1.58444	0.66726	0.01184	0.71773
0.11768	-0.49153	1.54588	-0.06978	-2.02144	0.22315	-0.00209	1.56081	0.66672	0.01148	0.72110
0.12045	-0.51990	1.54031	-0.07289	-2.01464	0.22438	-0.00208	1.54794	0.66533	0.01136	0.72295
0.12328	-0.53286	1.53517	-0.07609	-2.01090	0.22579	-0.00207	1.54910	0.66275	0.01135	0.72393
0.12619	-0.54181	1.53007	-0.07936	-2.00789	0.22740	-0.00206	1.55591	0.65959	0.01142	0.72410
0.12916	-0.56236	1.52471	-0.08270	-2.00259	0.22797	-0.00207	1.55625	0.65685	0.01160	0.72319
0.13219	-0.60131	1.51912	-0.08620	-1.99382	0.22592	-0.00207	1.54406	0.65508	0.01197	0.72084
0.13531	-0.65337	1.51364	-0.09000	-1.98290	0.22122	-0.00206	1.52232	0.65413	0.01262	0.71645
0.13849	-0.71748	1.50859	-0.09412	-1.97054	0.21493	-0.00205	1.49136	0.65398	0.01370	0.70902
0.14175	-0.79564	1.50382	-0.09850	-1.95635	0.20822	-0.00204	1.45005	0.65467	0.01525	0.69834
0.14508	-0.88166	1.49898	-0.10300	-1.94117	0.20288	-0.00203	1.40342	0.65574	0.01693	0.68642
0.14850	-0.96837	1.49367	-0.10751	-1.92581	0.20031	-0.00202	1.35724	0.65663	0.01836	0.67574
0.15199	-1.04882	1.48793	-0.11197	-1.91139	0.20142	-0.00202	1.31683	0.65685	0.01936	0.66747
0.15557	-1.11976	1.48210	-0.11636	-1.89868	0.20662	-0.00203	1.28460	0.65620	0.01989	0.66207
0.15923	-1.17364	1.47649	-0.12079	-1.88920	0.21583	-0.00204	1.26570	0.65421	0.01997	0.65990
0.16298	-1.20738	1.47124	-0.12540	-1.88352	0.22822	-0.00206	1.26237	0.65068	0.01963	0.66081
0.16681	-1.22277	1.46620	-0.13024	-1.88113	0.24233	-0.00208	1.27385	0.64573	0.01892	0.66478
0.17074	-1.22895	1.46092	-0.13519	-1.87982	0.25624	-0.00210	1.29465	0.63995	0.01778	0.67197
0.17475	-1.23469	1.45531	-0.14014	-1.87778	0.26918	-0.00211	1.31978	0.63385	0.01629	0.68175
0.17887	-1.23861	1.44988	-0.14510	-1.87573	0.28154	-0.00213	1.35081	0.62740	0.01468	0.69255
0.18307	-1.23937	1.44513	-0.15010	-1.87438	0.29324	-0.00215	1.38886	0.62061	0.01318	0.70276
0.18738	-1.24085	1.44105	-0.15512	-1.87300	0.30344	-0.00217	1.43076	0.61385	0.01185	0.71192
0.19179	-1.24998	1.43736	-0.16008	-1.87009	0.31170	-0.00219	1.47014	0.60762	0.01062	0.72044
0.19631	-1.26818	1.43425	-0.16484	-1.86563	0.31852	-0.00221	1.50488	0.60211	0.00937	0.72912
0.20092	-1.29504	1.43212	-0.16930	-1.86021	0.32489	-0.00223	1.53413	0.59737	0.00811	0.73793
0.20565	-1.32910	1.43109	-0.17344	-1.85437	0.33154	-0.00226	1.55804	0.59336	0.00691	0.74657
0.21049	-1.36905	1.43091	-0.17731	-1.84817	0.33882	-0.00229	1.57704	0.58995	0.00579	0.75481
0.21544	-1.41269	1.43118	-0.18100	-1.84164	0.34666	-0.00232	1.59227	0.58698	0.00474	0.76291
0.22051	-1.45493	1.43150	-0.18460	-1.83534	0.35465	-0.00235	1.60742	0.58411	0.00361	0.77171
0.22570	-1.48754	1.43168	-0.18821	-1.83061	0.36257	-0.00238	1.62918	0.58082	0.00227	0.78220
0.23101	-1.50295	1.43180	-0.19190	-1.82897	0.37021	-0.00239	1.66372	0.57673	0.00068	0.79467
0.23645	-1.49821	1.43214	-0.19565	-1.83134	0.37771	-0.00239	1.71397	0.57171	-0.00106	0.80847
0.24201	-1.47633	1.43293	-0.19935	-1.83749	0.38553	-0.00238	1.77800	0.56602	-0.00277	0.82230
0.24771	-1.44064	1.43429	-0.20295	-1.84688	0.39393	-0.00237	1.85375	0.55988	-0.00435	0.83549
0.25354	-1.39381	1.43622	-0.20644	-1.85897	0.40293	-0.00235	1.93989	0.55346	-0.00576	0.84778
0.25950	-1.33968	1.43853	-0.20978	-1.87274	0.41209	-0.00232	2.03405	0.54695	-0.00701	0.85918
0.26561	-1.28477	1.44088	-0.21295	-1.88663	0.42054	-0.00230	2.13023	0.54067	-0.00811	0.86970
0.27186	-1.23363	1.44311	-0.21597	-1.89966	0.42778	-0.00227	2.22327	0.53485	-0.00907	0.87932
0.27826	-1.19025	1.44519	-0.21889	-1.91104	0.43359	-0.00224	2.30866	0.52968	-0.00989	0.88807
0.28480	-1.15143	1.44736	-0.22175	-1.92167	0.43862	-0.00220	2.38951	0.52496	-0.01059	0.89604
0.29150	-1.10976	1.44999	-0.22458	-1.93327	0.44366	-0.00217	2.47445	0.52028	-0.01122	0.90338
0.29836	-1.06202	1.45326	-0.22741	-1.94661	0.44894	-0.00214	2.56716	0.51551	-0.01177	0.90999

0.30539	-1.01453	1.45719	-0.23023	-1.96046	0.45375	-0.00210	2.66140	0.51098	-0.01218	0.91539
0.31257	-0.97443	1.46172	-0.23305	-1.97355	0.45782	-0.00207	2.74866	0.50697	-0.01238	0.91905
0.31993	-0.95162	1.46639	-0.23585	-1.98385	0.46100	-0.00204	2.81697	0.50378	-0.01232	0.92049
0.32745	-0.95964	1.47101	-0.23850	-1.98870	0.46341	-0.00203	2.85081	0.50188	-0.01192	0.91918
0.33517	-1.00812	1.47519	-0.24096	-1.98584	0.46396	-0.00202	2.83951	0.50162	-0.01124	0.91554
0.34304	-1.09412	1.47869	-0.24324	-1.97567	0.46184	-0.00202	2.78576	0.50285	-0.01034	0.91012
0.35112	-1.21012	1.48156	-0.24544	-1.95970	0.45713	-0.00203	2.69895	0.50528	-0.00926	0.90335
0.35938	-1.34890	1.48399	-0.24752	-1.93954	0.45143	-0.00204	2.58886	0.50858	-0.00801	0.89556
0.36784	-1.50653	1.48602	-0.24953	-1.91595	0.44440	-0.00205	2.46203	0.51259	-0.00661	0.88695
0.37649	-1.67384	1.48796	-0.25157	-1.89100	0.43691	-0.00207	2.32982	0.51689	-0.00505	0.87748
0.38536	-1.84481	1.48994	-0.25391	-1.86591	0.42980	-0.00208	2.19805	0.52132	-0.00328	0.86695
0.39442	-2.01401	1.49217	-0.25660	-1.84192	0.42371	-0.00210	2.07265	0.52558	-0.00138	0.85587
0.40370	-2.18306	1.49497	-0.25957	-1.81882	0.41915	-0.00212	1.95370	0.52972	0.00055	0.84488
0.41321	-2.34631	1.49830	-0.26289	-1.79763	0.41708	-0.00215	1.84650	0.53340	0.00245	0.83442
0.42292	-2.49757	1.50190	-0.26658	-1.77943	0.41751	-0.00218	1.75576	0.53617	0.00420	0.82520
0.43288	-2.63396	1.50537	-0.27067	-1.76454	0.41935	-0.00220	1.68330	0.53764	0.00564	0.81828
0.44307	-2.76179	1.50890	-0.27491	-1.75176	0.42303	-0.00223	1.62363	0.53814	0.00667	0.81413
0.45349	-2.88808	1.51239	-0.27928	-1.73953	0.42847	-0.00227	1.56985	0.53814	0.00737	0.81242
0.46417	-3.01241	1.51556	-0.28392	-1.72769	0.43534	-0.00231	1.52176	0.53754	0.00778	0.81271
0.47508	-3.13657	1.51867	-0.28884	-1.71606	0.44320	-0.00236	1.47800	0.53645	0.00800	0.81432
0.48626	-3.26604	1.52156	-0.29407	-1.70338	0.45017	-0.00241	1.43362	0.53529	0.00813	0.81673
0.49771	-3.40611	1.52381	-0.29963	-1.68811	0.45464	-0.00245	1.38411	0.53440	0.00825	0.81933
0.50942	-3.56055	1.52545	-0.30539	-1.66947	0.45642	-0.00250	1.32773	0.53393	0.00847	0.82137
0.52140	-3.73190	1.52657	-0.31126	-1.64688	0.45564	-0.00255	1.26373	0.53401	0.00884	0.82248
0.53367	-3.91453	1.52700	-0.31726	-1.62137	0.45130	-0.00259	1.19639	0.53430	0.00926	0.82312
0.54624	-4.10401	1.52681	-0.32332	-1.59376	0.44428	-0.00264	1.12919	0.53462	0.00959	0.82420
0.55910	-4.29233	1.52639	-0.32941	-1.56602	0.43574	-0.00267	1.06804	0.53443	0.00977	0.82607
0.57225	-4.47667	1.52641	-0.33535	-1.53951	0.42707	-0.00271	1.01506	0.53354	0.00984	0.82834
0.58569	-4.65542	1.52723	-0.34113	-1.51494	0.41910	-0.00274	0.97047	0.53189	0.00986	0.83030
0.59948	-4.82872	1.52872	-0.34683	-1.49226	0.41274	-0.00278	0.93328	0.52950	0.00997	0.83119
0.61357	-4.99395	1.53067	-0.35250	-1.47178	0.40859	-0.00282	0.90399	0.52624	0.01026	0.83059
0.62802	-5.15077	1.53331	-0.35815	-1.45396	0.40627	-0.00286	0.88329	0.52198	0.01082	0.82808
0.64280	-5.29865	1.53675	-0.36374	-1.43901	0.40547	-0.00289	0.87145	0.51663	0.01162	0.82373
0.65794	-5.43963	1.54081	-0.36917	-1.42632	0.40601	-0.00292	0.86738	0.51024	0.01254	0.81817
0.67340	-5.57261	1.54528	-0.37447	-1.41583	0.40802	-0.00294	0.87103	0.50286	0.01353	0.81185
0.68927	-5.69971	1.54982	-0.37970	-1.40674	0.41129	-0.00297	0.88089	0.49467	0.01459	0.80502
0.70547	-5.82161	1.55428	-0.38478	-1.39861	0.41551	-0.00299	0.89602	0.48585	0.01571	0.79772
0.72207	-5.94005	1.55881	-0.38976	-1.39125	0.42021	-0.00301	0.91648	0.47642	0.01684	0.79006
0.73910	-6.05696	1.56355	-0.39453	-1.38432	0.42473	-0.00303	0.94173	0.46647	0.01792	0.78226
0.75649	-6.17220	1.56856	-0.39906	-1.37781	0.42953	-0.00305	0.97177	0.45611	0.01894	0.77425
0.77429	-6.28674	1.57366	-0.40333	-1.37140	0.43426	-0.00307	1.00581	0.44547	0.01990	0.76591
0.79246	-6.40008	1.57868	-0.40728	-1.36502	0.43888	-0.00308	1.04328	0.43469	0.02079	0.75716
0.81116	-6.51332	1.58368	-0.41095	-1.35864	0.44358	-0.00310	1.08441	0.42376	0.02161	0.74808
0.83022	-6.62559	1.58884	-0.41429	-1.35248	0.44846	-0.00311	1.12901	0.41283	0.02235	0.73909
0.84976	-6.73813	1.59448	-0.41725	-1.34673	0.45358	-0.00313	1.17769	0.40186	0.02300	0.73041
0.86972	-6.85094	1.60075	-0.41981	-1.34149	0.45909	-0.00314	1.23031	0.39098	0.02355	0.72232
0.89023	-6.96507	1.60770	-0.42200	-1.33669	0.46510	-0.00316	1.28669	0.38020	0.02404	0.71505
0.91116	-7.07907	1.61506	-0.42383	-1.33229	0.47166	-0.00317	1.34596	0.36968	0.02446	0.70901
0.93257	-7.19285	1.62262	-0.42537	-1.32816	0.47881	-0.00319	1.40771	0.35941	0.02482	0.70426
0.95456	-7.30675	1.63031	-0.42664	-1.32420	0.48648	-0.00320	1.47152	0.34942	0.02512	0.70083
0.97704	-7.42089	1.63816	-0.42767	-1.32035	0.49444	-0.00322	1.53636	0.33980	0.02534	0.69872
1.00000	-7.53607	1.64635	-0.42844	-1.31660	0.50248	-0.00324	1.60160	0.33059	0.02549	0.69788
1.02354	-7.65338	1.65510	-0.42895	-1.31296	0.51051	-0.00326	1.66719	0.32180	0.02556	0.69817
1.04767	-7.77293	1.66449	-0.42921	-1.30947	0.51843	-0.00328	1.73294	0.31342	0.02555	0.69941
1.07227	-7.89371	1.67436	-0.42927	-1.30615	0.52624	-0.00330	1.79843	0.30548	0.02550	0.70144
1.09745	-8.01541	1.68457	-0.42914	-1.30294	0.53401	-0.00331	1.86401	0.29790	0.02540	0.70410
1.12334	-8.13776	1.69493	-0.42886	-1.29981	0.54180	-0.00333	1.93005	0.29062	0.02529	0.70727
1.14982	-8.25958	1.70526	-0.42847	-1.29675	0.54962	-0.00335	1.99636	0.28363	0.02516	0.71082
1.17675	-8.37999	1.71548	-0.42795	-1.29382	0.55743	-0.00337	2.06273	0.27696	0.02504	0.71457
1.20453	-8.50105	1.72583	-0.42731	-1.29100	0.56537	-0.00338	2.13028	0.27049	0.02491	0.71843
1.23289	-8.62207	1.73635	-0.42652	-1.28835	0.57331	-0.00340	2.19813	0.26430	0.02479	0.72217
1.26183	-8.74360	1.74720	-0.42558	-1.28589	0.58118	-0.00342	2.26593	0.25841	0.02466	0.72573
1.29149	-8.86659	1.75852	-0.42447	-1.28362	0.58900	-0.00343	2.33373	0.25280	0.02451	0.72920
1.32188	-8.99098	1.77030	-0.42321	-1.28154	0.59677	-0.00345	2.40133	0.24747	0.02436	0.73266
1.35300	-9.11650	1.78245	-0.42181	-1.27962	0.60449	-0.00346	2.46832	0.24243	0.02419	0.73621
1.38485	-9.24257	1.79484	-0.42028	-1.27784	0.61218	-0.00348	2.53446	0.23766	0.02401	0.73997
1.41743	-9.36862	1.80729	-0.41866	-1.27614	0.61985	-0.00349	2.59952	0.23317	0.02383	0.74408
1.45075	-9.49416	1.81969	-0.41695	-1.27452	0.62753	-0.00350	2.66330	0.22894	0.02365	0.74859
1.48500	-9.61973	1.83203	-0.41517	-1.27293	0.63525	-0.00352	2.72589	0.22493	0.02347	0.75353
1.51999	-9.74460	1.84424	-0.41332	-1.27137	0.64295	-0.00353	2.78651	0.22118	0.02329	0.75885
1.55569	-9.86905	1.85637	-0.41140	-1.26983	0.65059	-0.00355	2.84467	0.21770	0.02311	0.76456
1.59236	-9.99429	1.86860	-0.40938	-1.26831	0.65820	-0.00356	2.90040	0.21447	0.02291	0.77068
1.62973	-10.11989	1.88095	-0.40726	-1.26682	0.66567	-0.00357	2.95285	0.21153	0.02269	0.77715
1.66806	-10.24703	1.89358	-0.40502	-1.26536	0.67302	-0.00359	3.00210	0.20885	0.02245	0.78401
1.70736	-10.37583	1.90655	-0.40267	-1.26393	0.68025	-0.00360	3.04803	0.20644	0.02218	0.79125
1.74764	-10.50627	1.91984	-0.40020	-1.26256	0.68734	-0.00361	3.09058	0.20429	0.02188	0.79888
1.78859	-10.63713	1.93334	-0.39764	-1.26123	0.69425	-0.00362	3.12940	0.20239	0.02156	0.80682
1.83083	-10.77012	1.94716	-0.39495	-1.25993	0.70107	-0.00363	3.16502	0.20073	0.02122	0.81519
1.87371	-10.90273	1.96100	-0.39221	-1.25867	0.70773	-0.00364	3.19702	0.19929	0.02085	0.82384
1.91791	-11.03656	1.97500	-0.38937	-1.25744	0.71435	-0.00365	3.22617	0.19805	0.02048	0.83283
1.96309	-11.17015	1.98895	-0.38646	-1.25624	0.72091	-0.00366	3.25235	0.19700	0.02009	0.84198

2.00924	-11.30315	2.00278	-0.38350	-1.25508	0.72740	-0.00367	3.27575	0.19613	0.01971	0.85114
2.05634	-11.43531	2.01645	-0.38049	-1.25395	0.73384	-0.00368	3.29637	0.19542	0.01932	0.86018
2.10482	-11.56768	2.03006	-0.37741	-1.25286	0.74028	-0.00369	3.31448	0.19488	0.01893	0.86901
2.15424	-11.69914	2.04351	-0.37427	-1.25180	0.74665	-0.00370	3.32984	0.19450	0.01855	0.87738
2.20507	-11.83100	2.05695	-0.37105	-1.25077	0.75300	-0.00370	3.34260	0.19427	0.01816	0.88523
2.25683	-11.96222	2.07028	-0.36777	-1.24977	0.75923	-0.00371	3.35253	0.19420	0.01778	0.89257
2.31000	-12.09426	2.08368	-0.36440	-1.24877	0.76538	-0.00372	3.35957	0.19428	0.01738	0.89955
2.36463	-12.22732	2.09720	-0.36092	-1.24778	0.77142	-0.00373	3.36367	0.19451	0.01697	0.90628
2.42014	-12.36016	2.11073	-0.35738	-1.24681	0.77730	-0.00373	3.36496	0.19488	0.01654	0.91283
2.47709	-12.49407	2.12441	-0.35372	-1.24587	0.78305	-0.00374	3.36388	0.19537	0.01609	0.91941
2.53550	-12.62903	2.13826	-0.34996	-1.24494	0.78868	-0.00374	3.36063	0.19597	0.01562	0.92616
2.59471	-12.76352	2.15213	-0.34615	-1.24407	0.79414	-0.00375	3.35549	0.19666	0.01514	0.93314
2.65604	-12.90023	2.16627	-0.34219	-1.24323	0.79955	-0.00375	3.34900	0.19743	0.01463	0.94054
2.71887	-13.03753	2.18053	-0.33814	-1.24244	0.80487	-0.00375	3.34128	0.19825	0.01411	0.94833
2.78242	-13.17363	2.19472	-0.33405	-1.24172	0.81004	-0.00376	3.33285	0.19911	0.01360	0.95645
2.84819	-13.31123	2.20905	-0.32982	-1.24107	0.81518	-0.00376	3.32413	0.19999	0.01307	0.96515
2.91545	-13.44886	2.22345	-0.32556	-1.24047	0.82028	-0.00376	3.31487	0.20089	0.01256	0.97435
2.98329	-13.58405	2.23752	-0.32125	-1.23997	0.82524	-0.00376	3.30626	0.20177	0.01205	0.98383
3.05344	-13.72037	2.25174	-0.31688	-1.23952	0.83023	-0.00376	3.29739	0.20265	0.01156	0.99358
3.12598	-13.85746	2.26595	-0.31236	-1.23916	0.83522	-0.00376	3.28922	0.20351	0.01108	1.00340
3.19898	-13.99154	2.27983	-0.30791	-1.23887	0.84011	-0.00376	3.28147	0.20434	0.01063	1.01275
3.27439	-14.12625	2.29369	-0.30332	-1.23865	0.84501	-0.00376	3.27447	0.20513	0.01020	1.02162
3.35121	-14.25928	2.30733	-0.29876	-1.23850	0.84988	-0.00376	3.26807	0.20589	0.00980	1.02971
3.43053	-14.39287	2.32092	-0.29405	-1.23844	0.85475	-0.00376	3.26253	0.20662	0.00942	1.03738
3.51124	-14.52459	2.33429	-0.28941	-1.23843	0.85959	-0.00376	3.25752	0.20730	0.00907	1.04475
3.59324	-14.65453	2.34731	-0.28464	-1.23851	0.86433	-0.00375	3.25378	0.20793	0.00873	1.05218
3.67782	-14.78496	2.36050	-0.27996	-1.23864	0.86913	-0.00375	3.24987	0.20855	0.00842	1.06006
3.76506	-14.91473	2.37326	-0.27497	-1.23890	0.87386	-0.00375	3.24822	0.20909	0.00810	1.06885
3.85356	-15.04411	2.38635	-0.27025	-1.23915	0.87860	-0.00375	3.24525	0.20966	0.00780	1.07826
3.94477	-15.17153	2.39867	-0.26518	-1.23957	0.88321	-0.00374	3.24539	0.21011	0.00751	1.08834
4.03714	-15.29947	2.41152	-0.26032	-1.23998	0.88784	-0.00374	3.24385	0.21062	0.00723	1.09856
4.13223	-15.42538	2.42379	-0.25535	-1.24050	0.89236	-0.00373	3.24439	0.21103	0.00696	1.10889
4.23012	-15.55227	2.43609	-0.25012	-1.24113	0.89684	-0.00373	3.24564	0.21144	0.00670	1.11901
4.32900	-15.67833	2.44881	-0.24533	-1.24172	0.90132	-0.00372	3.24527	0.21186	0.00646	1.12831
4.43066	-15.80086	2.46025	-0.23999	-1.24252	0.90554	-0.00372	3.24892	0.21216	0.00622	1.13710
4.53515	-15.92755	2.47290	-0.23488	-1.24331	0.90991	-0.00371	3.25005	0.21255	0.00600	1.14519
4.64253	-16.05222	2.48517	-0.22988	-1.24414	0.91418	-0.00371	3.25216	0.21288	0.00579	1.15269
4.75059	-16.17218	2.49617	-0.22434	-1.24515	0.91811	-0.00370	3.25742	0.21312	0.00556	1.15962
4.86145	-16.29754	2.50897	-0.21935	-1.24608	0.92229	-0.00369	3.25889	0.21347	0.00537	1.16590
4.97760	-16.42073	2.52082	-0.21417	-1.24712	0.92632	-0.00368	3.26307	0.21371	0.00517	1.17191
5.09424	-16.53959	2.53149	-0.20842	-1.24833	0.93002	-0.00368	3.26984	0.21390	0.00495	1.17754
5.21376	-16.66508	2.54441	-0.20338	-1.24944	0.93402	-0.00367	3.27235	0.21419	0.00476	1.18264
5.33618	-16.78480	2.55598	-0.19837	-1.25059	0.93779	-0.00366	3.27725	0.21438	0.00458	1.18755
5.46150	-16.90000	2.56578	-0.19245	-1.25198	0.94116	-0.00365	3.28594	0.21449	0.00435	1.19253
5.58971	-17.02336	2.57816	-0.18716	-1.25329	0.94487	-0.00364	3.29042	0.21472	0.00416	1.19726
5.72082	-17.14477	2.59061	-0.18250	-1.25452	0.94859	-0.00363	3.29458	0.21489	0.00399	1.20193
5.85823	-17.25751	2.59958	-0.17649	-1.25603	0.95171	-0.00362	3.30479	0.21494	0.00376	1.20729
5.99520	-17.37410	2.61012	-0.17071	-1.25755	0.95492	-0.00361	3.31254	0.21507	0.00354	1.21259
6.13497	-17.49760	2.62335	-0.16607	-1.25892	0.95855	-0.00359	3.31670	0.21523	0.00339	1.21768
6.28141	-17.61114	2.63347	-0.16099	-1.26037	0.96172	-0.00358	3.32496	0.21526	0.00320	1.22329
6.42674	-17.71490	2.64080	-0.15483	-1.26201	0.96427	-0.00357	3.33602	0.21529	0.00294	1.22929
6.57895	-17.83222	2.65161	-0.14916	-1.26366	0.96733	-0.00356	3.34400	0.21539	0.00273	1.23530
6.73401	-17.95568	2.66508	-0.14478	-1.26515	0.97081	-0.00355	3.34963	0.21545	0.00260	1.24103
6.89180	-18.05983	2.67331	-0.13977	-1.26666	0.97346	-0.00354	3.35922	0.21542	0.00240	1.24727
7.05716	-18.15919	2.67892	-0.13327	-1.26843	0.97562	-0.00352	3.37106	0.21546	0.00212	1.25421
7.22022	-18.26679	2.68781	-0.12761	-1.27013	0.97817	-0.00351	3.38006	0.21551	0.00189	1.26054
7.39098	-18.38830	2.70078	-0.12308	-1.27178	0.98135	-0.00350	3.38738	0.21551	0.00175	1.26636
7.56430	-18.49392	2.71011	-0.11886	-1.27327	0.98402	-0.00348	3.39638	0.21542	0.00160	1.27201
7.73994	-18.57495	2.71193	-0.11272	-1.27490	0.98548	-0.00348	3.40745	0.21547	0.00130	1.27818
7.92393	-18.66897	2.71675	-0.10653	-1.27667	0.98732	-0.00346	3.41783	0.21552	0.00102	1.28391
8.11030	-18.77335	2.72489	-0.10104	-1.27843	0.98958	-0.00345	3.42673	0.21556	0.00080	1.28885
8.29876	-18.89002	2.73735	-0.09697	-1.28007	0.99246	-0.00344	3.43469	0.21550	0.00069	1.29278
8.49618	-18.97853	2.74207	-0.09252	-1.28153	0.99432	-0.00343	3.44390	0.21545	0.00049	1.29711
8.69565	-19.03748	2.73832	-0.08633	-1.28304	0.99489	-0.00342	3.45435	0.21551	0.00013	1.30225
8.90472	-19.11435	2.73898	-0.08031	-1.28474	0.99604	-0.00341	3.46487	0.21551	-0.00019	1.30707
9.11577	-19.19621	2.74143	-0.07469	-1.28642	0.99740	-0.00340	3.47466	0.21550	-0.00047	1.31163
9.32836	-19.30176	2.75055	-0.06983	-1.28815	0.99958	-0.00338	3.48152	0.21557	-0.00066	1.31560
9.54198	-19.39330	2.75713	-0.06604	-1.28957	1.00148	-0.00337	3.48861	0.21555	-0.00081	1.31957
9.76563	-19.42357	2.74764	-0.06146	-1.29068	1.00134	-0.00337	3.50150	0.21528	-0.00114	1.32531
10.00000	-19.44979	2.73675	-0.05641	-1.29197	1.00101	-0.00336	3.51826	0.21481	-0.00152	1.33197

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Median stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 30 - 61 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	2.01684	2.23739	-0.16029	-3.28782	1.14381	-0.00037	14.33896	0.23306	-0.00180	0.41988
PGV	12.86612	1.68939	-0.19142	-4.25360	1.15887	0.00054	25.35276	0.22257	-0.00449	0.45845
PGA	5.73223	1.62411	-0.06727	-3.39901	0.48103	-0.00034	9.57302	0.43546	-0.02942	0.78239
0.01000	5.74485	1.63354	-0.06552	-3.39554	0.45614	-0.00034	9.64014	0.43903	-0.01193	0.75181
0.01024	5.75717	1.63393	-0.06528	-3.39741	0.45539	-0.00034	9.65507	0.43906	-0.01196	0.75231
0.01048	5.77238	1.63435	-0.06503	-3.39976	0.45469	-0.00034	9.67464	0.43905	-0.01200	0.75282
0.01072	5.79066	1.63479	-0.06476	-3.40263	0.45402	-0.00034	9.69914	0.43898	-0.01204	0.75332
0.01097	5.81214	1.63525	-0.06448	-3.40604	0.45339	-0.00034	9.72879	0.43887	-0.01210	0.75383
0.01123	5.83709	1.63574	-0.06417	-3.41002	0.45278	-0.00033	9.76395	0.43870	-0.01216	0.75436
0.01150	5.86577	1.63627	-0.06385	-3.41461	0.45219	-0.00033	9.80509	0.43848	-0.01223	0.75491
0.01177	5.89855	1.63684	-0.06350	-3.41989	0.45161	-0.00032	9.85280	0.43821	-0.01231	0.75549
0.01205	5.93569	1.63746	-0.06313	-3.42588	0.45102	-0.00032	9.90746	0.43788	-0.01240	0.75612
0.01233	5.97769	1.63814	-0.06272	-3.43267	0.45043	-0.00031	9.96992	0.43748	-0.01251	0.75680
0.01262	6.02534	1.63889	-0.06228	-3.44039	0.44982	-0.00031	10.04143	0.43702	-0.01263	0.75756
0.01292	6.07955	1.63972	-0.06180	-3.44919	0.44919	-0.00030	10.12352	0.43648	-0.01277	0.75841
0.01322	6.14106	1.64064	-0.06128	-3.45919	0.44851	-0.00029	10.21750	0.43586	-0.01293	0.75937
0.01353	6.21004	1.64166	-0.06070	-3.47039	0.44778	-0.00028	10.32377	0.43515	-0.01310	0.76045
0.01385	6.28619	1.64280	-0.06006	-3.48273	0.44693	-0.00027	10.44183	0.43438	-0.01329	0.76166
0.01417	6.37021	1.64407	-0.05934	-3.49632	0.44596	-0.00026	10.57282	0.43355	-0.01351	0.76304
0.01451	6.46314	1.64551	-0.05855	-3.51134	0.44489	-0.00025	10.71845	0.43265	-0.01375	0.76462
0.01485	6.56532	1.64714	-0.05767	-3.52784	0.44370	-0.00024	10.87913	0.43168	-0.01401	0.76642
0.01520	6.67584	1.64899	-0.05669	-3.54566	0.44233	-0.00022	11.05345	0.43069	-0.01430	0.76844
0.01556	6.79238	1.65105	-0.05560	-3.56432	0.44076	-0.00021	11.23773	0.42971	-0.01461	0.77070
0.01592	6.91630	1.65334	-0.05437	-3.58404	0.43903	-0.00020	11.43512	0.42873	-0.01496	0.77327
0.01630	7.04931	1.65587	-0.05302	-3.60507	0.43711	-0.00018	11.64944	0.42773	-0.01534	0.77623
0.01668	7.18771	1.65863	-0.05153	-3.62671	0.43478	-0.00017	11.87470	0.42677	-0.01577	0.77959
0.01707	7.32617	1.66153	-0.04991	-3.64797	0.43195	-0.00016	12.10181	0.42594	-0.01626	0.78341
0.01748	7.46106	1.66457	-0.04811	-3.66819	0.42868	-0.00015	12.32403	0.42530	-0.01680	0.78769
0.01789	7.58879	1.66781	-0.04614	-3.68685	0.42519	-0.00015	12.53485	0.42491	-0.01736	0.79223
0.01831	7.71189	1.67147	-0.04403	-3.70458	0.42152	-0.00014	12.73664	0.42475	-0.01793	0.79693
0.01874	7.82941	1.67553	-0.04183	-3.72127	0.41708	-0.00014	12.92499	0.42486	-0.01852	0.80188
0.01918	7.93755	1.67991	-0.03954	-3.73621	0.41141	-0.00014	13.09268	0.42531	-0.01910	0.80678
0.01963	8.03341	1.68447	-0.03720	-3.74881	0.40426	-0.00014	13.23512	0.42612	-0.01963	0.81136
0.02009	8.09912	1.68896	-0.03478	-3.75590	0.39536	-0.00015	13.32017	0.42753	-0.02012	0.81573
0.02057	8.12365	1.69354	-0.03223	-3.75585	0.38493	-0.00015	13.32589	0.42970	-0.02059	0.82002
0.02105	8.10795	1.69843	-0.02956	-3.74908	0.37343	-0.00017	13.25361	0.43265	-0.02102	0.82407
0.02154	8.05165	1.70390	-0.02684	-3.73591	0.36178	-0.00019	13.10222	0.43636	-0.02132	0.82730
0.02205	7.93787	1.71017	-0.02397	-3.71398	0.35010	-0.00022	12.83839	0.44113	-0.02148	0.82956
0.02257	7.76804	1.71667	-0.02090	-3.68317	0.33836	-0.00026	12.47460	0.44686	-0.02160	0.83149
0.02310	7.58989	1.72312	-0.01782	-3.65109	0.32696	-0.00031	12.10537	0.45272	-0.02173	0.83341
0.02364	7.41822	1.72976	-0.01492	-3.62038	0.31510	-0.00035	11.75013	0.45858	-0.02179	0.83486
0.02420	7.23405	1.73652	-0.01215	-3.58802	0.30300	-0.00038	11.37549	0.46474	-0.02169	0.83517
0.02477	7.04179	1.74349	-0.00928	-3.55465	0.29272	-0.00043	11.00149	0.47094	-0.02146	0.83454
0.02535	6.85457	1.75083	-0.00627	-3.52256	0.28481	-0.00048	10.65081	0.47695	-0.02118	0.83355
0.02595	6.68810	1.75862	-0.00334	-3.49456	0.27754	-0.00053	10.33726	0.48267	-0.02090	0.83249
0.02656	6.52871	1.76628	-0.00052	-3.46775	0.26872	-0.00057	10.03605	0.48841	-0.02065	0.83164
0.02719	6.33332	1.77275	0.00233	-3.43384	0.25726	-0.00061	9.68623	0.49485	-0.02054	0.83178
0.02783	6.09057	1.77844	0.00528	-3.39129	0.24460	-0.00065	9.27630	0.50221	-0.02054	0.83272
0.02848	5.82673	1.78511	0.00830	-3.34623	0.23286	-0.00070	8.84312	0.51019	-0.02050	0.83356
0.02915	5.54470	1.79379	0.01149	-3.30038	0.22255	-0.00076	8.38482	0.51890	-0.02036	0.83382
0.02984	5.24064	1.80304	0.01483	-3.25207	0.21244	-0.00082	7.89895	0.52837	-0.02020	0.83391
0.03054	4.96060	1.81092	0.01792	-3.20731	0.20253	-0.00086	7.45828	0.53738	-0.02007	0.83413
0.03126	4.73685	1.81756	0.02047	-3.17146	0.19346	-0.00090	7.10396	0.54515	-0.01981	0.83357
0.03199	4.51721	1.82431	0.02285	-3.13651	0.18365	-0.00093	6.76128	0.55308	-0.01930	0.83145
0.03275	4.23652	1.83103	0.02569	-3.09093	0.17092	-0.00097	6.35112	0.56285	-0.01870	0.82889
0.03352	3.91880	1.83724	0.02897	-3.03844	0.15758	-0.00101	5.91560	0.57374	-0.01824	0.82726
0.03430	3.63393	1.84388	0.03221	-2.99203	0.14825	-0.00106	5.54368	0.58371	-0.01785	0.82607
0.03511	3.38949	1.85039	0.03508	-2.95302	0.14307	-0.00110	5.23549	0.59240	-0.01745	0.82458
0.03594	3.15359	1.85524	0.03759	-2.91496	0.13777	-0.00114	4.94180	0.60087	-0.01698	0.82267
0.03678	2.92813	1.85866	0.03983	-2.87785	0.13070	-0.00117	4.66526	0.60924	-0.01636	0.82000
0.03765	2.73877	1.86190	0.04190	-2.84628	0.12469	-0.00120	4.44271	0.61648	-0.01567	0.81677
0.03854	2.56283	1.86536	0.04396	-2.81679	0.12070	-0.00123	4.24939	0.62308	-0.01501	0.81363
0.03944	2.35694	1.86808	0.04610	-2.78191	0.11648	-0.00127	4.03105	0.63061	-0.01448	0.81093
0.04037	2.12281	1.86871	0.04802	-2.74111	0.10952	-0.00131	3.78309	0.63939	-0.01400	0.80841
0.04132	1.89634	1.86693	0.04936	-2.70003	0.10025	-0.00133	3.54256	0.64834	-0.01348	0.80569
0.04229	1.71272	1.86497	0.05022	-2.66619	0.09209	-0.00134	3.34944	0.65596	-0.01284	0.80236
0.04329	1.60868	1.86434	0.05053	-2.64682	0.08790	-0.00135	3.23804	0.66064	-0.01202	0.79804
0.04431	1.57183	1.86448	0.05023	-2.63931	0.08584	-0.00135	3.18978	0.66286	-0.01116	0.79336
0.04535	1.53855	1.86463	0.04971	-2.63233	0.08239	-0.00134	3.14320	0.66512	-0.01054	0.79010

0.04642	1.45109	1.86427	0.04951	-2.61569	0.07659	-0.00135	3.05012	0.66941	-0.01032	0.78924
0.04751	1.30124	1.86290	0.04973	-2.58756	0.06946	-0.00136	2.90838	0.67593	-0.01027	0.78957
0.04863	1.12726	1.86092	0.04997	-2.55487	0.06312	-0.00138	2.75264	0.68330	-0.01010	0.78923
0.04977	0.96726	1.85967	0.04996	-2.52535	0.05838	-0.00140	2.61291	0.69027	-0.00963	0.78673
0.05094	0.83272	1.85888	0.04965	-2.50082	0.05359	-0.00141	2.49473	0.69650	-0.00881	0.78162
0.05214	0.71069	1.85635	0.04911	-2.47736	0.04687	-0.00142	2.38521	0.70240	-0.00786	0.77546
0.05337	0.57557	1.85110	0.04853	-2.44971	0.03802	-0.00141	2.26617	0.70885	-0.00707	0.77049
0.05462	0.44676	1.84350	0.04746	-2.42147	0.02928	-0.00141	2.15228	0.71503	-0.00655	0.76768
0.05591	0.33749	1.83495	0.04594	-2.39594	0.02255	-0.00140	2.05445	0.72030	-0.00630	0.76700
0.05722	0.24970	1.82607	0.04421	-2.37386	0.01871	-0.00140	1.97497	0.72442	-0.00630	0.76793
0.05857	0.17819	1.81764	0.04232	-2.35472	0.01777	-0.00140	1.91136	0.72761	-0.00643	0.76972
0.05995	0.11002	1.81139	0.04046	-2.33758	0.01903	-0.00141	1.85606	0.73051	-0.00654	0.77112
0.06136	0.04244	1.80893	0.03886	-2.32377	0.02252	-0.00143	1.80700	0.73329	-0.00639	0.77054
0.06280	-0.03087	1.80960	0.03771	-2.31199	0.02606	-0.00145	1.75665	0.73645	-0.00586	0.76751
0.06428	-0.11145	1.80849	0.03659	-2.29773	0.02645	-0.00146	1.69911	0.74018	-0.00516	0.76373
0.06579	-0.18772	1.80146	0.03477	-2.27923	0.02483	-0.00147	1.64124	0.74353	-0.00451	0.76083
0.06734	-0.25017	1.79015	0.03211	-2.25946	0.02448	-0.00147	1.59244	0.74571	-0.00392	0.75870
0.06893	-0.28242	1.77822	0.02877	-2.24445	0.02729	-0.00148	1.56452	0.74594	-0.00347	0.75748
0.07055	-0.27137	1.76813	0.02501	-2.23851	0.03412	-0.00149	1.56645	0.74364	-0.00330	0.75791
0.07221	0.27291	1.76228	0.01449	-2.33171	0.07996	-0.00145	1.90635	0.71332	-0.00348	0.76024
0.07391	-0.16872	1.75679	0.01796	-2.24781	0.05282	-0.00150	1.63018	0.73498	-0.00322	0.75930
0.07565	-0.13987	1.75340	0.01516	-2.25053	0.05723	-0.00150	1.64802	0.73236	-0.00293	0.75749
0.07743	-0.15537	1.74946	0.01270	-2.24509	0.05600	-0.00149	1.63480	0.73243	-0.00249	0.75454
0.07925	-0.21729	1.74417	0.01036	-2.23029	0.05079	-0.00149	1.59016	0.73514	-0.00203	0.75142
0.08111	-0.32019	1.73767	0.00823	-2.20705	0.04360	-0.00148	1.52053	0.74009	-0.00167	0.74907
0.08302	-0.45642	1.73010	0.00629	-2.17693	0.03501	-0.00149	1.43236	0.74694	-0.00134	0.74686
0.08498	-0.61875	1.72097	0.00436	-2.14071	0.02375	-0.00149	1.33040	0.75560	-0.00077	0.74327
0.08697	-0.77728	1.70974	0.00199	-2.10326	0.01101	-0.00148	1.23168	0.76451	0.00004	0.73833
0.08902	-0.90255	1.69810	-0.00085	-2.07121	0.00071	-0.00148	1.15453	0.77157	0.00093	0.73321
0.09112	-0.95750	1.68832	-0.00435	-2.05329	-0.00321	-0.00147	1.11901	0.77401	0.00175	0.72871
0.09326	-0.94362	1.68317	-0.00825	-2.05201	-0.00011	-0.00147	1.12411	0.77177	0.00243	0.72511
0.09545	-0.88420	1.68399	-0.01211	-2.06481	0.00985	-0.00147	1.15799	0.76640	0.00286	0.72322
0.09770	-0.81655	1.68924	-0.01544	-2.08384	0.02683	-0.00148	1.20205	0.76001	0.00297	0.72368
0.10000	-0.77346	1.69502	-0.01812	-2.09963	0.04910	-0.00152	1.23783	0.75428	0.00284	0.72615
0.10235	-0.77394	1.69717	-0.02047	-2.10469	0.07234	-0.00157	1.25158	0.75038	0.00260	0.72989
0.10476	-0.81672	1.69282	-0.02304	-2.09623	0.09173	-0.00163	1.23957	0.74861	0.00234	0.73441
0.10723	-0.89565	1.68182	-0.02607	-2.07488	0.10314	-0.00168	1.20195	0.74928	0.00223	0.73821
0.10975	-1.01560	1.66585	-0.02937	-2.04113	0.10289	-0.00170	1.13552	0.75342	0.00261	0.73857
0.11233	-1.17493	1.64742	-0.03266	-1.99747	0.09075	-0.00170	1.04427	0.76142	0.00353	0.73453
0.11498	-1.35399	1.63011	-0.03555	-1.95066	0.07107	-0.00169	0.94487	0.77213	0.00469	0.72805
0.11768	-1.51609	1.61623	-0.03827	-1.90959	0.04918	-0.00168	0.85886	0.78283	0.00563	0.72216
0.12045	-1.64321	1.60569	-0.04132	-1.87774	0.02711	-0.00165	0.79317	0.79192	0.00609	0.71906
0.12328	-1.72909	1.59768	-0.04498	-1.85567	0.00703	-0.00160	0.74878	0.79836	0.00609	0.71912
0.12619	-1.76291	1.59183	-0.04923	-1.84529	-0.00564	-0.00156	0.73037	0.80037	0.00583	0.72144
0.12916	-1.74563	1.58874	-0.05379	-1.84704	-0.00630	-0.00154	0.73929	0.79721	0.00558	0.72420
0.13219	-1.68360	1.58841	-0.05856	-1.85965	0.00477	-0.00154	0.77400	0.78934	0.00552	0.72576
0.13531	-1.59459	1.58955	-0.06359	-1.87853	0.02340	-0.00155	0.82687	0.77864	0.00562	0.72581
0.13849	-1.49723	1.59053	-0.06889	-1.89871	0.04566	-0.00157	0.88906	0.76690	0.00573	0.72501
0.14175	-1.41338	1.59060	-0.07425	-1.91556	0.06885	-0.00161	0.94930	0.75590	0.00587	0.72359
0.14508	-1.36390	1.59030	-0.07932	-1.92604	0.09191	-0.00165	0.99558	0.74714	0.00624	0.72080
0.14850	-1.35599	1.59091	-0.08369	-1.93028	0.11431	-0.00170	1.02152	0.74131	0.00690	0.71660
0.15199	-1.38734	1.59290	-0.08714	-1.92912	0.13473	-0.00176	1.02556	0.73853	0.00757	0.71288
0.15557	-1.45640	1.59520	-0.08975	-1.92173	0.15043	-0.00181	1.00639	0.73893	0.00795	0.71134
0.15923	-1.56801	1.59656	-0.09164	-1.90601	0.15948	-0.00186	0.96173	0.74286	0.00808	0.71162
0.16298	-1.71658	1.59655	-0.09301	-1.88256	0.16289	-0.00190	0.89752	0.74981	0.00817	0.71211
0.16681	-1.86999	1.59549	-0.09434	-1.85741	0.16404	-0.00194	0.83282	0.75733	0.00837	0.71190
0.17074	-1.99326	1.59348	-0.09625	-1.83692	0.16601	-0.00198	0.78452	0.76266	0.00852	0.71198
0.17475	-2.06807	1.59054	-0.09908	-1.82430	0.17000	-0.00200	0.75934	0.76426	0.00839	0.71383
0.17887	-2.08650	1.58705	-0.10301	-1.82130	0.17608	-0.00200	0.75944	0.76150	0.00796	0.71768
0.18307	-2.05154	1.58304	-0.10806	-1.82743	0.18286	-0.00199	0.78315	0.75475	0.00733	0.72309
0.18738	-1.98141	1.57781	-0.11405	-1.83881	0.18904	-0.00196	0.82312	0.74541	0.00663	0.72900
0.19179	-1.89946	1.57053	-0.12068	-1.85052	0.19399	-0.00192	0.86950	0.73514	0.00599	0.73459
0.19631	-1.82930	1.56078	-0.12758	-1.85788	0.19750	-0.00188	0.91131	0.72550	0.00542	0.73967
0.20092	-1.78281	1.54914	-0.13442	-1.85918	0.19988	-0.00184	0.94271	0.71723	0.00485	0.74457
0.20565	-1.75226	1.53703	-0.14107	-1.85700	0.20199	-0.00181	0.96827	0.70978	0.00416	0.75013
0.21049	-1.72803	1.52588	-0.14743	-1.85423	0.20410	-0.00179	0.99449	0.70252	0.00317	0.75753
0.21544	-1.71373	1.51628	-0.15331	-1.85057	0.20552	-0.00176	1.02003	0.69577	0.00182	0.76723
0.22051	-1.72834	1.50811	-0.15854	-1.84249	0.20561	-0.00175	1.03319	0.69092	0.00042	0.77751
0.22570	-1.78945	1.50109	-0.16309	-1.82671	0.20457	-0.00176	1.02227	0.68921	-0.00064	0.78589
0.23101	-1.89357	1.49514	-0.16720	-1.80396	0.20382	-0.00178	0.98843	0.69045	-0.00118	0.79121
0.23645	-2.01265	1.49063	-0.17129	-1.77995	0.20585	-0.00182	0.94786	0.69269	-0.00123	0.79348
0.24201	-2.12156	1.48819	-0.17560	-1.76012	0.21223	-0.00187	0.91474	0.69416	-0.00090	0.79314
0.24771	-2.21014	1.48798	-0.18018	-1.74659	0.22246	-0.00193	0.89420	0.69410	-0.00030	0.79093
0.25354	-2.28795	1.48938	-0.18484	-1.73693	0.23420	-0.00198	0.88030	0.69327	0.00044	0.78784
0.25950	-2.36725	1.49183	-0.18938	-1.72822	0.24504	-0.00203	0.86591	0.69268	0.00117	0.78503
0.26561	-2.45620	1.49515	-0.19371	-1.71874	0.25259	-0.00208	0.84609	0.69315	0.00182	0.78302
0.27186	-2.55551	1.49929	-0.19779	-1.70845	0.25533	-0.00210	0.81985	0.69489	0.00240	0.78153
0.27826	-2.66484	1.50379	-0.20163	-1.69721	0.25222	-0.00211	0.78693	0.69794	0.00292	0.78024
0.28480	-2.78381	1.50788	-0.20526	-1.68446	0.24387	-0.00210	0.74799	0.70210	0.00335	0.77896
0.29150	-2.91079	1.51075	-0.20885	-1.66955	0.23100	-0.00207	0.70483	0.70705	0.00363	0.77800
0.29836	-3.03671	1.51211	-0.21272	-1.65365	0.21497	-0.00203	0.66282	0.71190	0.00371	0.77785

0.30539	-3.15138	1.51246	-0.21714	-1.63887	0.19793	-0.00198	0.62755	0.71562	0.00365	0.77821
0.31257	-3.24935	1.51256	-0.22215	-1.62684	0.18288	-0.00193	0.60190	0.71753	0.00357	0.77851
0.31993	-3.33310	1.51311	-0.22764	-1.61768	0.17230	-0.00189	0.58497	0.71771	0.00354	0.77835
0.32745	-3.40732	1.51457	-0.23332	-1.61089	0.16812	-0.00187	0.57484	0.71649	0.00361	0.77754
0.33517	-3.47806	1.51666	-0.23904	-1.60500	0.17004	-0.00187	0.56857	0.71447	0.00370	0.77695
0.34304	-3.54897	1.51884	-0.24469	-1.59866	0.17598	-0.00189	0.56393	0.71213	0.00365	0.77779
0.35112	-3.62195	1.52077	-0.25030	-1.59115	0.18386	-0.00191	0.55974	0.70971	0.00344	0.78047
0.35938	-3.69531	1.52233	-0.25590	-1.58271	0.19269	-0.00194	0.55608	0.70723	0.00310	0.78464
0.36784	-3.76610	1.52369	-0.26149	-1.57423	0.20298	-0.00198	0.55434	0.70431	0.00269	0.78987
0.37649	-3.82870	1.52497	-0.26704	-1.56698	0.21559	-0.00201	0.55692	0.70040	0.00215	0.79629
0.38536	-3.87851	1.52618	-0.27258	-1.56191	0.23106	-0.00206	0.56590	0.69510	0.00142	0.80433
0.39442	-3.91402	1.52745	-0.27805	-1.55937	0.24964	-0.00210	0.58255	0.68823	0.00050	0.81366
0.40370	-3.93582	1.52898	-0.28342	-1.55944	0.27146	-0.00215	0.60777	0.67979	-0.00047	0.82312
0.41321	-3.94327	1.53092	-0.28865	-1.56250	0.29623	-0.00221	0.64266	0.66985	-0.00133	0.83155
0.42292	-3.93723	1.53340	-0.29370	-1.56854	0.32312	-0.00227	0.68756	0.65867	-0.00195	0.83810
0.43288	-3.91850	1.53655	-0.29852	-1.57761	0.35173	-0.00232	0.74326	0.64644	-0.00230	0.84262
0.44307	-3.88786	1.54032	-0.30309	-1.58951	0.38108	-0.00238	0.80981	0.63354	-0.00247	0.84580
0.45349	-3.84448	1.54454	-0.30749	-1.60412	0.41028	-0.00243	0.88793	0.62022	-0.00261	0.84888
0.46417	-3.78686	1.54901	-0.31177	-1.62150	0.43901	-0.00247	0.97964	0.60646	-0.00287	0.85299
0.47508	-3.71450	1.55365	-0.31596	-1.64171	0.46772	-0.00250	1.08691	0.59228	-0.00330	0.85851
0.48626	-3.62789	1.55832	-0.32013	-1.66454	0.49671	-0.00253	1.21100	0.57780	-0.00388	0.86529
0.49771	-3.52877	1.56294	-0.32431	-1.68961	0.52556	-0.00255	1.35204	0.56329	-0.00453	0.87270
0.50942	-3.42162	1.56754	-0.32850	-1.71610	0.55341	-0.00256	1.50811	0.54908	-0.00517	0.88015
0.52140	-3.31114	1.57217	-0.33262	-1.74329	0.57948	-0.00257	1.67650	0.53540	-0.00573	0.88703
0.53367	-3.20302	1.57681	-0.33669	-1.77019	0.60290	-0.00257	1.85153	0.52259	-0.00613	0.89268
0.54624	-3.10626	1.58120	-0.34075	-1.79503	0.62168	-0.00256	2.02146	0.51120	-0.00628	0.89647
0.55910	-3.02982	1.58525	-0.34468	-1.81615	0.63531	-0.00253	2.17484	0.50149	-0.00616	0.89823
0.57225	-2.97670	1.58911	-0.34841	-1.83316	0.64445	-0.00250	2.30701	0.49333	-0.00583	0.89840
0.58569	-2.94976	1.59290	-0.35196	-1.84559	0.64896	-0.00247	2.41270	0.48670	-0.00537	0.89774
0.59948	-2.94792	1.59668	-0.35545	-1.85369	0.64886	-0.00242	2.49081	0.48151	-0.00488	0.89707
0.61357	-2.97106	1.60051	-0.35889	-1.85766	0.64466	-0.00238	2.53902	0.47770	-0.00437	0.89644
0.62802	-3.03003	1.60456	-0.36228	-1.85552	0.63713	-0.00234	2.54512	0.47571	-0.00374	0.89529
0.64280	-3.13813	1.60878	-0.36554	-1.84455	0.62636	-0.00231	2.49448	0.47607	-0.00296	0.89347
0.65794	-3.30131	1.61282	-0.36870	-1.82319	0.61256	-0.00229	2.38222	0.47908	-0.00216	0.89190
0.67340	-3.51346	1.61639	-0.37177	-1.79221	0.59646	-0.00230	2.21859	0.48458	-0.00151	0.89183
0.68927	-3.76236	1.61973	-0.37479	-1.75418	0.57910	-0.00232	2.02239	0.49222	-0.00107	0.89365
0.70547	-4.03032	1.62324	-0.37787	-1.71289	0.56164	-0.00236	1.81653	0.50134	-0.00073	0.89657
0.72207	-4.30409	1.62763	-0.38106	-1.67179	0.54496	-0.00240	1.61844	0.51121	-0.00032	0.89915
0.73910	-4.57693	1.63316	-0.38441	-1.63254	0.52878	-0.00244	1.43609	0.52140	0.00027	0.90041
0.75649	-4.84537	1.63969	-0.38790	-1.59572	0.51303	-0.00248	1.27234	0.53156	0.00104	0.89991
0.77429	-5.11172	1.64715	-0.39141	-1.56083	0.49750	-0.00251	1.12476	0.54181	0.00202	0.89718
0.79246	-5.37089	1.65515	-0.39489	-1.52852	0.48320	-0.00255	0.99607	0.55159	0.00317	0.89201
0.81116	-5.62223	1.66324	-0.39841	-1.49854	0.47030	-0.00258	0.88584	0.56044	0.00447	0.88475
0.83022	-5.86102	1.67084	-0.40202	-1.47094	0.45916	-0.00262	0.79509	0.56767	0.00580	0.87620
0.84976	-6.08697	1.67771	-0.40580	-1.44540	0.44977	-0.00265	0.72267	0.57273	0.00705	0.86731
0.86972	-6.30038	1.68378	-0.40969	-1.42161	0.44091	-0.00268	0.66616	0.57545	0.00814	0.85899
0.89023	-6.50453	1.68911	-0.41369	-1.39893	0.43242	-0.00271	0.62230	0.57590	0.00907	0.85150
0.91116	-6.69750	1.69385	-0.41773	-1.37787	0.42486	-0.00273	0.58988	0.57409	0.00990	0.84489
0.93257	-6.87731	1.69831	-0.42173	-1.35934	0.41925	-0.00275	0.56905	0.56978	0.01067	0.83894
0.95456	-7.04421	1.70280	-0.42562	-1.34380	0.41588	-0.00277	0.55933	0.56296	0.01146	0.83335
0.97704	-7.19897	1.70751	-0.42934	-1.33116	0.41448	-0.00279	0.55994	0.55383	0.01227	0.82797
1.00000	-7.34385	1.71245	-0.43283	-1.32089	0.41488	-0.00281	0.57000	0.54262	0.01308	0.82292
1.02354	-7.48223	1.71774	-0.43609	-1.31235	0.41699	-0.00283	0.58854	0.52964	0.01390	0.81817
1.04767	-7.61625	1.72345	-0.43904	-1.30520	0.42066	-0.00284	0.61470	0.51527	0.01474	0.81356
1.07227	-7.74554	1.72960	-0.44165	-1.29944	0.42645	-0.00286	0.64852	0.49980	0.01559	0.80898
1.09745	-7.87002	1.73613	-0.44391	-1.29511	0.43456	-0.00289	0.69075	0.48337	0.01648	0.80427
1.12334	-7.98959	1.74291	-0.44585	-1.29218	0.44463	-0.00291	0.74226	0.46609	0.01739	0.79950
1.14982	-8.10394	1.74987	-0.44747	-1.29060	0.45632	-0.00294	0.80295	0.44836	0.01832	0.79474
1.17675	-8.21466	1.75691	-0.44872	-1.28980	0.46848	-0.00296	0.87101	0.43069	0.01923	0.79023
1.20453	-8.32430	1.76413	-0.44964	-1.28952	0.48113	-0.00298	0.94714	0.41303	0.02007	0.78621
1.23289	-8.43255	1.77154	-0.45020	-1.28960	0.49409	-0.00301	1.03079	0.39565	0.02076	0.78299
1.26183	-8.53865	1.77932	-0.45040	-1.29035	0.50781	-0.00303	1.12374	0.37851	0.02132	0.78046
1.29149	-8.64225	1.78761	-0.45022	-1.29215	0.52252	-0.00306	1.22857	0.36149	0.02176	0.77851
1.32188	-8.74392	1.79647	-0.44966	-1.29495	0.53794	-0.00308	1.34559	0.34474	0.02213	0.77699
1.35300	-8.84420	1.80582	-0.44874	-1.29851	0.55404	-0.00310	1.47442	0.32843	0.02240	0.77602
1.38485	-8.94413	1.81553	-0.44747	-1.30245	0.57035	-0.00313	1.61334	0.31274	0.02260	0.77571
1.41743	-9.04423	1.82548	-0.44589	-1.30651	0.58651	-0.00315	1.76063	0.29781	0.02272	0.77616
1.45075	-9.14443	1.83552	-0.44402	-1.31056	0.60228	-0.00317	1.91498	0.28368	0.02279	0.77740
1.48500	-9.24583	1.84563	-0.44192	-1.31440	0.61749	-0.00319	2.07505	0.27036	0.02280	0.77943
1.51999	-9.34834	1.85572	-0.43960	-1.31788	0.63184	-0.00321	2.23743	0.25796	0.02278	0.78218
1.55569	-9.45262	1.86583	-0.43711	-1.32086	0.64526	-0.00322	2.39947	0.24651	0.02273	0.78556
1.59236	-9.55985	1.87608	-0.43443	-1.32334	0.65786	-0.00324	2.56006	0.23593	0.02264	0.78953
1.62973	-9.66987	1.88652	-0.43161	-1.32525	0.66959	-0.00325	2.71582	0.22628	0.02254	0.79401
1.66806	-9.78383	1.89728	-0.42863	-1.32661	0.68055	-0.00327	2.86569	0.21748	0.02241	0.79900
1.70736	-9.90178	1.90841	-0.42550	-1.32743	0.69084	-0.00328	3.00814	0.20952	0.02223	0.80453
1.74764	-10.02361	1.91991	-0.42223	-1.32776	0.70050	-0.00329	3.14189	0.20235	0.02201	0.81062
1.78859	-10.14766	1.93168	-0.41887	-1.32772	0.70960	-0.00330	3.26596	0.19597	0.02175	0.81721
1.83083	-10.27527	1.94383	-0.41539	-1.32736	0.71833	-0.00332	3.38191	0.19024	0.02144	0.82438
1.87371	-10.40366	1.95609	-0.41186	-1.32677	0.72660	-0.00333	3.48831	0.18517	0.02110	0.83197
1.91791	-10.53413	1.96855	-0.40825	-1.32600	0.73459	-0.00334	3.58719	0.18064	0.02074	0.83998
1.96309	-10.66506	1.98105	-0.40461	-1.32512	0.74226	-0.00335	3.67787	0.17665	0.02037	0.84822

2.00924	-10.79581	1.99350	-0.40095	-1.32417	0.74965	-0.00336	3.76072	0.17315	0.02000	0.85652
2.05634	-10.92635	2.00585	-0.39728	-1.32311	0.75670	-0.00337	3.83503	0.17012	0.01963	0.86472
2.10482	-11.05755	2.01819	-0.39358	-1.32195	0.76349	-0.00337	3.90152	0.16752	0.01927	0.87274
2.15424	-11.18832	2.03041	-0.38988	-1.32070	0.76994	-0.00338	3.95917	0.16536	0.01892	0.88033
2.20507	-11.32007	2.04265	-0.38615	-1.31932	0.77611	-0.00339	4.00814	0.16361	0.01857	0.88744
2.25683	-11.45164	2.05483	-0.38240	-1.31783	0.78195	-0.00340	4.04829	0.16224	0.01823	0.89404
2.31000	-11.58439	2.06710	-0.37861	-1.31624	0.78755	-0.00340	4.08029	0.16122	0.01788	0.90029
2.36463	-11.71846	2.07952	-0.37475	-1.31456	0.79292	-0.00341	4.10441	0.16053	0.01753	0.90630
2.42014	-11.85249	2.09199	-0.37087	-1.31284	0.79806	-0.00341	4.12101	0.16015	0.01717	0.91213
2.47709	-11.98771	2.10464	-0.36692	-1.31110	0.80305	-0.00342	4.13112	0.16005	0.01679	0.91799
2.53550	-12.12409	2.11749	-0.36290	-1.30936	0.80791	-0.00342	4.13534	0.16020	0.01639	0.92407
2.59471	-12.26011	2.13043	-0.35886	-1.30765	0.81261	-0.00342	4.13420	0.16057	0.01597	0.93041
2.65604	-12.39842	2.14365	-0.35469	-1.30594	0.81726	-0.00343	4.12861	0.16113	0.01553	0.93721
2.71887	-12.53747	2.15705	-0.35047	-1.30427	0.82182	-0.00343	4.11892	0.16187	0.01507	0.94444
2.78242	-12.67543	2.17042	-0.34623	-1.30266	0.82625	-0.00343	4.10595	0.16275	0.01461	0.95207
2.84819	-12.81497	2.18397	-0.34187	-1.30109	0.83063	-0.00343	4.09037	0.16375	0.01413	0.96032
2.91545	-12.95481	2.19765	-0.33750	-1.29956	0.83492	-0.00343	4.07177	0.16488	0.01364	0.96915
2.98329	-13.09206	2.21103	-0.33310	-1.29814	0.83907	-0.00343	4.05235	0.16606	0.01316	0.97831
3.05344	-13.23069	2.22462	-0.32866	-1.29677	0.84320	-0.00343	4.03065	0.16734	0.01268	0.98782
3.12598	-13.37005	2.23821	-0.32408	-1.29546	0.84727	-0.00343	4.00806	0.16869	0.01220	0.99745
3.19898	-13.50651	2.25154	-0.31960	-1.29424	0.85120	-0.00343	3.98473	0.17007	0.01174	1.00668
3.27439	-13.64359	2.26486	-0.31499	-1.29309	0.85507	-0.00343	3.96072	0.17150	0.01130	1.01548
3.35121	-13.77910	2.27801	-0.31043	-1.29202	0.85885	-0.00343	3.93633	0.17295	0.01087	1.02356
3.43053	-13.91508	2.29112	-0.30573	-1.29103	0.86257	-0.00343	3.91170	0.17444	0.01046	1.03127
3.51124	-14.04933	2.30408	-0.30111	-1.29012	0.86621	-0.00342	3.88698	0.17593	0.01007	1.03873
3.59324	-14.18147	2.31667	-0.29639	-1.28931	0.86972	-0.00342	3.86338	0.17741	0.00968	1.04628
3.67782	-14.31451	2.32951	-0.29174	-1.28856	0.87325	-0.00342	3.83879	0.17892	0.00931	1.05433
3.76506	-14.44629	2.34185	-0.28684	-1.28793	0.87667	-0.00341	3.81646	0.18038	0.00893	1.06332
3.85356	-14.57845	2.35465	-0.28215	-1.28732	0.88008	-0.00341	3.79201	0.18190	0.00857	1.07297
3.94477	-14.70771	2.36657	-0.27720	-1.28685	0.88337	-0.00340	3.77144	0.18330	0.00820	1.08332
4.03714	-14.83830	2.37915	-0.27241	-1.28640	0.88665	-0.00340	3.74816	0.18479	0.00785	1.09385
4.13223	-14.96641	2.39110	-0.26754	-1.28606	0.88986	-0.00339	3.72768	0.18617	0.00750	1.10450
4.23012	-15.09524	2.40305	-0.26245	-1.28580	0.89301	-0.00339	3.70762	0.18757	0.00716	1.11497
4.32900	-15.22436	2.41560	-0.25770	-1.28555	0.89620	-0.00338	3.68554	0.18900	0.00684	1.12463
4.43066	-15.34822	2.42664	-0.25256	-1.28547	0.89919	-0.00337	3.66926	0.19025	0.00651	1.13378
4.53515	-15.47768	2.43910	-0.24753	-1.28538	0.90228	-0.00337	3.64875	0.19165	0.00620	1.14228
4.64253	-15.60509	2.45119	-0.24260	-1.28537	0.90537	-0.00336	3.63019	0.19296	0.00590	1.15016
4.75059	-15.72599	2.46177	-0.23730	-1.28551	0.90819	-0.00335	3.61659	0.19411	0.00559	1.15748
4.86145	-15.85470	2.47449	-0.23234	-1.28561	0.91122	-0.00334	3.59707	0.19545	0.00531	1.16418
4.97760	-15.98031	2.48615	-0.22727	-1.28581	0.91420	-0.00333	3.58186	0.19663	0.00502	1.17059
5.09424	-16.09974	2.49639	-0.22178	-1.28616	0.91690	-0.00333	3.57093	0.19767	0.00472	1.17660
5.21376	-16.22894	2.50931	-0.21675	-1.28644	0.91988	-0.00332	3.55313	0.19894	0.00445	1.18212
5.33618	-16.35140	2.52077	-0.21181	-1.28680	0.92274	-0.00331	3.53992	0.20000	0.00418	1.18740
5.46150	-16.46644	2.53006	-0.20621	-1.28733	0.92527	-0.00330	3.53280	0.20088	0.00388	1.19273
5.58971	-16.59302	2.54239	-0.20097	-1.28780	0.92808	-0.00329	3.51836	0.20201	0.00361	1.19784
5.72082	-16.71882	2.55498	-0.19623	-1.28826	0.93097	-0.00328	3.50391	0.20308	0.00337	1.20289
5.85823	-16.83089	2.56339	-0.19060	-1.28891	0.93336	-0.00327	3.49990	0.20380	0.00308	1.20854
5.99520	-16.94865	2.57361	-0.18505	-1.28957	0.93581	-0.00326	3.49149	0.20469	0.00280	1.21416
6.13497	-17.07763	2.58712	-0.18025	-1.29013	0.93865	-0.00325	3.47641	0.20577	0.00257	1.21962
6.28141	-17.19331	2.59710	-0.17530	-1.29079	0.94115	-0.00324	3.46946	0.20651	0.00232	1.22552
6.42674	-17.29508	2.60370	-0.16964	-1.29156	0.94309	-0.00323	3.46867	0.20707	0.00203	1.23173
6.57895	-17.41445	2.61431	-0.16413	-1.29232	0.94544	-0.00322	3.46040	0.20792	0.00176	1.23804
6.73401	-17.54450	2.62822	-0.15949	-1.29302	0.94822	-0.00321	3.44673	0.20890	0.00156	1.24411
6.89180	-17.64956	2.63617	-0.15472	-1.29376	0.95032	-0.00320	3.44366	0.20944	0.00132	1.25056
7.05716	-17.74531	2.64083	-0.14890	-1.29460	0.95192	-0.00319	3.44569	0.20986	0.00102	1.25763
7.22022	-17.85372	2.64937	-0.14353	-1.29541	0.95386	-0.00318	3.44078	0.21052	0.00076	1.26417
7.39098	-17.98156	2.66274	-0.13877	-1.29623	0.95638	-0.00316	3.42923	0.21140	0.00056	1.27029
7.56430	-18.09066	2.67216	-0.13454	-1.29700	0.95853	-0.00315	3.42405	0.21197	0.00038	1.27615
7.73994	-18.16554	2.67274	-0.12931	-1.29776	0.95954	-0.00314	3.43005	0.21214	0.00008	1.28235
7.92393	-18.25639	2.67667	-0.12381	-1.29857	0.96084	-0.00314	3.43096	0.21253	-0.00021	1.28816
8.11030	-18.36171	2.68446	-0.11863	-1.29941	0.96252	-0.00312	3.42646	0.21312	-0.00046	1.29326
8.29876	-18.48525	2.69744	-0.11426	-1.30029	0.96479	-0.00311	3.41625	0.21390	-0.00062	1.29745
8.49618	-18.57305	2.70171	-0.11019	-1.30101	0.96622	-0.00310	3.41676	0.21419	-0.00082	1.30187
8.69565	-18.62160	2.69616	-0.10538	-1.30159	0.96646	-0.00310	3.42731	0.21407	-0.00115	1.30690
8.90472	-18.69269	2.69558	-0.10036	-1.30227	0.96719	-0.00309	3.43165	0.21421	-0.00146	1.31169
9.11577	-18.77104	2.69710	-0.09552	-1.30296	0.96809	-0.00308	3.43304	0.21446	-0.00174	1.31627
9.32836	-18.87975	2.70618	-0.09076	-1.30380	0.96964	-0.00307	3.42546	0.21513	-0.00195	1.32039
9.54198	-18.97346	2.71272	-0.08709	-1.30453	0.97107	-0.00306	3.42170	0.21557	-0.00211	1.32448
9.76563	-18.99183	2.70132	-0.08408	-1.30478	0.97091	-0.00305	3.43764	0.21497	-0.00239	1.33001
10.00000	-19.00547	2.68833	-0.08084	-1.30497	0.97060	-0.00305	3.45509	0.21425	-0.00271	1.33645

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Median stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 61 - 152 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	0.77234	2.21735	-0.23272	-2.96912	1.03856	-0.00073	10.95055	0.25877	0.01826	0.30125
PGV	10.96805	1.78920	-0.20658	-3.98475	1.05607	0.00039	20.54218	0.25036	0.00324	0.40575
PGA	4.66616	1.62511	-0.06723	-3.22503	0.42237	-0.00038	8.00850	0.45923	-0.02502	0.74572
0.01000	4.58907	1.63497	-0.06508	-3.20759	0.39626	-0.00040	7.95109	0.46470	-0.01198	0.74011
0.01024	4.59573	1.63528	-0.06486	-3.20851	0.39545	-0.00040	7.95677	0.46481	-0.01200	0.74056
0.01048	4.60533	1.63557	-0.06464	-3.20992	0.39475	-0.00039	7.96693	0.46486	-0.01203	0.74099
0.01072	4.61784	1.63587	-0.06441	-3.21182	0.39413	-0.00039	7.98148	0.46484	-0.01207	0.74142
0.01097	4.63336	1.63617	-0.06417	-3.21424	0.39360	-0.00039	8.00058	0.46476	-0.01211	0.74185
0.01123	4.65201	1.63648	-0.06392	-3.21717	0.39313	-0.00039	8.02437	0.46461	-0.01217	0.74228
0.01150	4.67403	1.63680	-0.06365	-3.22068	0.39274	-0.00038	8.05320	0.46440	-0.01223	0.74273
0.01177	4.69967	1.63712	-0.06338	-3.22478	0.39240	-0.00038	8.08747	0.46412	-0.01230	0.74319
0.01205	4.72933	1.63747	-0.06308	-3.22956	0.39211	-0.00038	8.12774	0.46377	-0.01238	0.74368
0.01233	4.76346	1.63784	-0.06276	-3.23508	0.39188	-0.00037	8.17470	0.46333	-0.01247	0.74420
0.01262	4.80257	1.63824	-0.06243	-3.24143	0.39170	-0.00037	8.22911	0.46281	-0.01257	0.74477
0.01292	4.84722	1.63867	-0.06206	-3.24870	0.39156	-0.00036	8.29185	0.46220	-0.01269	0.74540
0.01322	4.89800	1.63914	-0.06167	-3.25698	0.39147	-0.00035	8.36391	0.46149	-0.01282	0.74611
0.01353	4.95547	1.63964	-0.06124	-3.26636	0.39145	-0.00034	8.44629	0.46066	-0.01296	0.74692
0.01385	5.02037	1.64020	-0.06077	-3.27696	0.39151	-0.00033	8.54021	0.45972	-0.01313	0.74785
0.01417	5.09400	1.64082	-0.06025	-3.28900	0.39165	-0.00032	8.64775	0.45865	-0.01331	0.74893
0.01451	5.17807	1.64152	-0.05968	-3.30276	0.39186	-0.00031	8.77166	0.45742	-0.01353	0.75020
0.01485	5.27343	1.64232	-0.05906	-3.31837	0.39212	-0.00030	8.91348	0.45602	-0.01377	0.75169
0.01520	5.37922	1.64321	-0.05836	-3.33564	0.39244	-0.00028	9.07230	0.45450	-0.01404	0.75344
0.01556	5.49492	1.64418	-0.05757	-3.35446	0.39282	-0.00027	9.24772	0.45286	-0.01435	0.75551
0.01592	5.62184	1.64522	-0.05669	-3.37502	0.39321	-0.00025	9.44217	0.45108	-0.01470	0.75799
0.01630	5.76052	1.64631	-0.05571	-3.39737	0.39349	-0.00023	9.65685	0.44918	-0.01512	0.76090
0.01668	5.90898	1.64747	-0.05461	-3.42115	0.39351	-0.00021	9.88847	0.44721	-0.01558	0.76420
0.01707	6.06520	1.64877	-0.05341	-3.44605	0.39309	-0.00019	10.13313	0.44526	-0.01607	0.76783
0.01748	6.22855	1.65035	-0.05211	-3.47201	0.39227	-0.00017	10.38959	0.44335	-0.01659	0.77163
0.01789	6.40036	1.65224	-0.05070	-3.49926	0.39126	-0.00015	10.66116	0.44147	-0.01711	0.77553
0.01831	6.58277	1.65432	-0.04919	-3.52808	0.39027	-0.00013	10.95299	0.43953	-0.01765	0.77965
0.01874	6.77192	1.65648	-0.04758	-3.55773	0.38931	-0.00011	11.25923	0.43759	-0.01823	0.78399
0.01918	6.95661	1.65873	-0.04587	-3.58635	0.38819	-0.00009	11.56006	0.43586	-0.01880	0.78839
0.01963	7.12340	1.66107	-0.04406	-3.61170	0.38643	-0.00008	11.83055	0.43456	-0.01938	0.79283
0.02009	7.26762	1.66344	-0.04216	-3.63301	0.38378	-0.00007	12.06092	0.43376	-0.01998	0.79748
0.02057	7.39965	1.66584	-0.04018	-3.65207	0.38095	-0.00006	12.27070	0.43322	-0.02061	0.80235
0.02105	7.52031	1.66842	-0.03812	-3.66911	0.37873	-0.00006	12.46315	0.43290	-0.02122	0.80714
0.02154	7.61006	1.67122	-0.03594	-3.68084	0.37661	-0.00007	12.60165	0.43312	-0.02178	0.81158
0.02205	7.65839	1.67409	-0.03370	-3.68549	0.37312	-0.00008	12.66188	0.43412	-0.02222	0.81523
0.02257	7.66510	1.67682	-0.03142	-3.68288	0.36746	-0.00009	12.64259	0.43592	-0.02248	0.81764
0.02310	7.62776	1.67947	-0.02902	-3.67251	0.36008	-0.00011	12.54234	0.43854	-0.02259	0.81900
0.02364	7.54896	1.68255	-0.02644	-3.65523	0.35181	-0.00014	12.36588	0.44199	-0.02266	0.82001
0.02420	7.43699	1.68622	-0.02375	-3.63278	0.34302	-0.00017	12.12851	0.44613	-0.02278	0.82139
0.02477	7.30244	1.69008	-0.02117	-3.60686	0.33397	-0.00021	11.85207	0.45069	-0.02296	0.82312
0.02535	7.16166	1.69397	-0.01880	-3.58033	0.32555	-0.00025	11.56664	0.45533	-0.02309	0.82464
0.02595	7.04164	1.69799	-0.01661	-3.55794	0.31854	-0.00028	11.31780	0.45956	-0.02309	0.82535
0.02656	6.94690	1.70217	-0.01458	-3.54031	0.31224	-0.00031	11.11017	0.46337	-0.02297	0.82521
0.02719	6.85251	1.70644	-0.01255	-3.52278	0.30543	-0.00034	10.90177	0.46728	-0.02290	0.82547
0.02783	6.72514	1.71054	-0.01031	-3.49932	0.29744	-0.00037	10.64072	0.47190	-0.02298	0.82678
0.02848	6.55532	1.71477	-0.00786	-3.46865	0.28827	-0.00040	10.31295	0.47744	-0.02309	0.82819
0.02915	6.36515	1.71952	-0.00539	-3.43496	0.27870	-0.00044	9.95714	0.48350	-0.02311	0.82898
0.02984	6.17632	1.72461	-0.00299	-3.40181	0.26984	-0.00049	9.61314	0.48958	-0.02303	0.82912
0.03054	5.98898	1.72991	-0.00050	-3.36919	0.26222	-0.00053	9.28318	0.49557	-0.02286	0.82873
0.03126	5.79697	1.73506	0.00206	-3.33584	0.25522	-0.00058	8.95484	0.50165	-0.02267	0.82831
0.03199	5.59306	1.73991	0.00454	-3.30051	0.24743	-0.00062	8.60914	0.50813	-0.02242	0.82757
0.03275	5.39601	1.74503	0.00680	-3.26690	0.23879	-0.00066	8.27045	0.51478	-0.02208	0.82642
0.03352	5.21764	1.75076	0.00886	-3.23730	0.23056	-0.00069	7.95895	0.52125	-0.02168	0.82497
0.03430	5.02542	1.75666	0.01101	-3.20592	0.22288	-0.00072	7.63207	0.52811	-0.02113	0.82264
0.03511	4.79970	1.76225	0.01339	-3.16878	0.21540	-0.00076	7.27036	0.53572	-0.02049	0.81964
0.03594	4.53442	1.76731	0.01606	-3.12436	0.20827	-0.00081	6.87453	0.54420	-0.01993	0.81720
0.03678	4.22013	1.77170	0.01918	-3.07088	0.20099	-0.00087	6.43642	0.55388	-0.01953	0.81574
0.03765	3.87657	1.77572	0.02266	-3.01195	0.19277	-0.00094	5.98144	0.56454	-0.01921	0.81480
0.03854	3.53927	1.77962	0.02626	-2.95390	0.18472	-0.00101	5.55597	0.57527	-0.01880	0.81324
0.03944	3.21179	1.78328	0.02987	-2.89747	0.17771	-0.00108	5.16246	0.58590	-0.01825	0.81068
0.04037	2.89533	1.78684	0.03331	-2.84315	0.17103	-0.00114	4.79342	0.59659	-0.01761	0.80753
0.04132	2.60797	1.79166	0.03649	-2.79496	0.16397	-0.00119	4.46346	0.60711	-0.01697	0.80436
0.04229	2.35912	1.79835	0.03939	-2.75495	0.15620	-0.00124	4.17940	0.61720	-0.01640	0.80174
0.04329	2.13761	1.80547	0.04182	-2.72023	0.14656	-0.00126	3.92537	0.62703	-0.01598	0.80000
0.04431	1.92759	1.81132	0.04378	-2.68655	0.13524	-0.00129	3.68811	0.63678	-0.01572	0.79913
0.04535	1.73257	1.81619	0.04549	-2.65476	0.12552	-0.00131	3.47757	0.64587	-0.01553	0.79843

0.04642	1.57134	1.82042	0.04680	-2.62865	0.11968	-0.00133	3.31022	0.65338	-0.01527	0.79718
0.04751	1.43966	1.82350	0.04757	-2.60707	0.11562	-0.00135	3.17327	0.65969	-0.01488	0.79511
0.04863	1.32860	1.82605	0.04800	-2.58881	0.11202	-0.00136	3.05440	0.66540	-0.01446	0.79288
0.04977	1.22657	1.82972	0.04857	-2.57295	0.10947	-0.00137	2.94831	0.67083	-0.01407	0.79087
0.05094	1.12279	1.83425	0.04928	-2.55724	0.10721	-0.00139	2.84892	0.67618	-0.01368	0.78880
0.05214	1.01437	1.83748	0.04966	-2.53946	0.10315	-0.00141	2.74866	0.68167	-0.01344	0.78763
0.05337	0.88625	1.83712	0.04966	-2.51559	0.09626	-0.00142	2.62992	0.68796	-0.01340	0.78787
0.05462	0.72837	1.83319	0.04957	-2.48429	0.08806	-0.00143	2.48685	0.69538	-0.01328	0.78779
0.05591	0.57304	1.82657	0.04902	-2.45181	0.07958	-0.00143	2.34544	0.70275	-0.01288	0.78598
0.05722	0.44442	1.81845	0.04772	-2.42314	0.07024	-0.00142	2.22202	0.70935	-0.01218	0.78231
0.05857	0.33762	1.81096	0.04610	-2.39882	0.06099	-0.00140	2.11703	0.71526	-0.01128	0.77762
0.05995	0.24382	1.80605	0.04460	-2.37868	0.05309	-0.00139	2.02882	0.72060	-0.01048	0.77392
0.06136	0.14314	1.80347	0.04334	-2.35938	0.04613	-0.00138	1.94221	0.72619	-0.01000	0.77234
0.06280	0.02332	1.79903	0.04218	-2.33548	0.03922	-0.00138	1.84511	0.73250	-0.00980	0.77263
0.06428	-0.07529	1.79116	0.04055	-2.31216	0.03369	-0.00137	1.76202	0.73777	-0.00965	0.77306
0.06579	-0.11725	1.78422	0.03833	-2.29901	0.03117	-0.00136	1.71595	0.74055	-0.00923	0.77156
0.06734	-0.14110	1.78286	0.03640	-2.29348	0.02963	-0.00135	1.68598	0.74273	-0.00858	0.76840
0.06893	-0.19868	1.78584	0.03522	-2.28572	0.02601	-0.00134	1.64121	0.74664	-0.00798	0.76552
0.07055	-0.28688	1.78869	0.03426	-2.27251	0.02221	-0.00135	1.58348	0.75165	-0.00764	0.76410
0.07221	-0.37047	1.78946	0.03294	-2.25828	0.02228	-0.00136	1.53387	0.75563	-0.00749	0.76358
0.07391	-0.43834	1.78757	0.03116	-2.24452	0.02478	-0.00139	1.49556	0.75826	-0.00729	0.76236
0.07565	-0.49001	1.78233	0.02895	-2.23088	0.02544	-0.00140	1.46341	0.76007	-0.00695	0.76012
0.07743	-0.55481	1.77536	0.02695	-2.21344	0.02259	-0.00141	1.42164	0.76285	-0.00673	0.75867
0.07925	-0.62651	1.76861	0.02502	-2.19502	0.01986	-0.00142	1.37565	0.76619	-0.00676	0.75901
0.08111	-0.68712	1.76338	0.02290	-2.18017	0.02170	-0.00143	1.33677	0.76887	-0.00678	0.75929
0.08302	-0.73309	1.75895	0.02058	-2.16898	0.02820	-0.00144	1.30668	0.77054	-0.00658	0.75776
0.08498	-0.77954	1.75407	0.01828	-2.15747	0.03464	-0.00146	1.27549	0.77229	-0.00612	0.75443
0.08697	-0.83569	1.74864	0.01606	-2.14348	0.03653	-0.00147	1.23806	0.77499	-0.00570	0.75158
0.08902	-0.90499	1.74311	0.01382	-2.12663	0.03328	-0.00147	1.19376	0.77890	-0.00563	0.75168
0.09112	-0.99026	1.73707	0.01139	-2.10640	0.02825	-0.00147	1.14308	0.78373	-0.00573	0.75357
0.09326	-1.08835	1.73001	0.00876	-2.08332	0.02533	-0.00148	1.08946	0.78879	-0.00555	0.75414
0.09545	-1.19157	1.72242	0.00613	-2.05925	0.02495	-0.00150	1.03645	0.79373	-0.00498	0.75230
0.09770	-1.28347	1.71355	0.00295	-2.03644	0.02429	-0.00151	0.98761	0.79819	-0.00432	0.74996
0.10000	-1.35520	1.70283	-0.00119	-2.01593	0.02107	-0.00150	0.94418	0.80207	-0.00393	0.74973
0.10235	-1.39988	1.69200	-0.00601	-2.00006	0.01584	-0.00148	0.91171	0.80473	-0.00379	0.75157
0.10476	-1.42146	1.68338	-0.01074	-1.98976	0.01201	-0.00146	0.89388	0.80558	-0.00354	0.75287
0.10723	-1.43510	1.67705	-0.01492	-1.98238	0.01309	-0.00146	0.88666	0.80490	-0.00301	0.75203
0.10975	-1.45061	1.67257	-0.01859	-1.97612	0.01928	-0.00148	0.88381	0.80353	-0.00239	0.75023
0.11233	-1.45474	1.67007	-0.02236	-1.97394	0.02880	-0.00151	0.88742	0.80121	-0.00198	0.74967
0.11498	-1.43530	1.67004	-0.02645	-1.97881	0.04074	-0.00153	0.90127	0.79749	-0.00187	0.75124
0.11768	-1.39088	1.67184	-0.03069	-1.99040	0.05387	-0.00153	0.92515	0.79247	-0.00187	0.75350
0.12045	-1.35342	1.67390	-0.03448	-2.00120	0.06395	-0.00153	0.94360	0.78854	-0.00175	0.75464
0.12328	-1.33817	1.67435	-0.03785	-2.00635	0.06780	-0.00152	0.94872	0.78675	-0.00145	0.75436
0.12619	-1.35985	1.67443	-0.04060	-2.00373	0.06819	-0.00151	0.93880	0.78720	-0.00092	0.75235
0.12916	-1.39899	1.67227	-0.04350	-1.99537	0.06682	-0.00151	0.92349	0.78829	-0.00007	0.74816
0.13219	-1.44587	1.66773	-0.04653	-1.98313	0.06751	-0.00153	0.90914	0.78885	0.00091	0.74282
0.13531	-1.49964	1.66277	-0.04935	-1.96900	0.07365	-0.00157	0.89744	0.78853	0.00177	0.73794
0.13849	-1.55419	1.65600	-0.05259	-1.95345	0.07982	-0.00161	0.88460	0.78806	0.00245	0.73399
0.14175	-1.61065	1.64804	-0.05637	-1.93719	0.08151	-0.00163	0.86628	0.78839	0.00296	0.73085
0.14508	-1.66092	1.64047	-0.06052	-1.92309	0.07820	-0.00162	0.84613	0.78925	0.00332	0.72872
0.14850	-1.69491	1.63417	-0.06490	-1.91351	0.07450	-0.00160	0.83193	0.78935	0.00354	0.72757
0.15199	-1.70957	1.62829	-0.06962	-1.90784	0.07389	-0.00158	0.82712	0.78785	0.00369	0.72706
0.15557	-1.70716	1.62266	-0.07458	-1.90540	0.07647	-0.00157	0.83081	0.78488	0.00395	0.72591
0.15923	-1.69731	1.61913	-0.07929	-1.90617	0.08113	-0.00157	0.83943	0.78134	0.00457	0.72238
0.16298	-1.69236	1.61859	-0.08343	-1.90878	0.08660	-0.00158	0.84858	0.77809	0.00543	0.71703
0.16681	-1.71607	1.61962	-0.08689	-1.90760	0.09144	-0.00159	0.84819	0.77650	0.00606	0.71295
0.17074	-1.78499	1.61991	-0.08987	-1.89758	0.09466	-0.00162	0.83009	0.77753	0.00620	0.71206
0.17475	-1.89067	1.61862	-0.09280	-1.87948	0.09631	-0.00166	0.79763	0.78065	0.00588	0.71446
0.17887	-2.00421	1.61649	-0.09607	-1.85920	0.09666	-0.00169	0.76251	0.78432	0.00527	0.71911
0.18307	-2.10389	1.61424	-0.09977	-1.84154	0.09539	-0.00171	0.73133	0.78764	0.00460	0.72440
0.18738	-2.18826	1.61131	-0.10383	-1.82637	0.09249	-0.00171	0.70262	0.79078	0.00405	0.72904
0.19179	-2.26334	1.60689	-0.10801	-1.81171	0.08947	-0.00169	0.67455	0.79390	0.00371	0.73234
0.19631	-2.33368	1.60073	-0.11217	-1.79627	0.08807	-0.00168	0.64711	0.79688	0.00356	0.73446
0.20092	-2.39183	1.59338	-0.11643	-1.78168	0.08805	-0.00166	0.62441	0.79893	0.00358	0.73576
0.20565	-2.43605	1.58588	-0.12097	-1.76900	0.08699	-0.00164	0.60767	0.79997	0.00381	0.73610
0.21049	-2.48437	1.57872	-0.12560	-1.75536	0.08189	-0.00162	0.59028	0.80150	0.00418	0.73562
0.21544	-2.56075	1.57184	-0.12988	-1.73637	0.07219	-0.00160	0.56400	0.80538	0.00448	0.73533
0.22051	-2.67808	1.56551	-0.13340	-1.71008	0.06096	-0.00161	0.52616	0.81241	0.00456	0.73582
0.22570	-2.82928	1.56092	-0.13610	-1.67894	0.05236	-0.00164	0.48220	0.82175	0.00446	0.73693
0.23101	-2.99426	1.55883	-0.13822	-1.64734	0.04847	-0.00170	0.44028	0.83165	0.00426	0.73861
0.23645	-3.15607	1.55854	-0.14021	-1.61773	0.04852	-0.00178	0.40475	0.84068	0.00404	0.74092
0.24201	-3.30209	1.55872	-0.14243	-1.59150	0.05073	-0.00186	0.37698	0.84791	0.00386	0.74350
0.24771	-3.42029	1.55840	-0.14518	-1.57046	0.05359	-0.00193	0.35775	0.85243	0.00374	0.74597
0.25354	-3.49957	1.55721	-0.14875	-1.55675	0.05684	-0.00197	0.34800	0.85334	0.00367	0.74812
0.25950	-3.53404	1.55552	-0.15336	-1.55199	0.06185	-0.00198	0.34875	0.85001	0.00368	0.74972
0.26561	-3.52534	1.55404	-0.15896	-1.55641	0.07068	-0.00197	0.36048	0.84237	0.00379	0.75089
0.27186	-3.48110	1.55337	-0.16532	-1.56873	0.08344	-0.00194	0.38297	0.83109	0.00395	0.75216
0.27826	-3.40966	1.55378	-0.17229	-1.58718	0.09881	-0.00191	0.41594	0.81707	0.00420	0.75331
0.28480	-3.31722	1.55511	-0.17982	-1.61031	0.11598	-0.00187	0.45899	0.80114	0.00460	0.75354
0.29150	-3.21467	1.55691	-0.18777	-1.63569	0.13374	-0.00183	0.50934	0.78461	0.00514	0.75241
0.29836	-3.11828	1.55868	-0.19595	-1.65971	0.15068	-0.00180	0.56117	0.76911	0.00569	0.75055

0.30539	-3.04521	1.56026	-0.20408	-1.67885	0.16603	-0.00178	0.60732	0.75606	0.00614	0.74892
0.31257	-3.00737	1.56167	-0.21187	-1.69086	0.18031	-0.00177	0.64205	0.74613	0.00640	0.74845
0.31993	-3.00936	1.56284	-0.21912	-1.69473	0.19366	-0.00178	0.66246	0.73941	0.00639	0.74990
0.32745	-3.04964	1.56385	-0.22567	-1.69084	0.20592	-0.00182	0.66818	0.73569	0.00604	0.75371
0.33517	-3.11998	1.56516	-0.23145	-1.68137	0.21769	-0.00187	0.66216	0.73435	0.00538	0.75961
0.34304	-3.20938	1.56729	-0.23642	-1.66907	0.22913	-0.00192	0.64898	0.73460	0.00451	0.76700
0.35112	-3.30826	1.57056	-0.24067	-1.65619	0.23996	-0.00199	0.63297	0.73569	0.00349	0.77542
0.35938	-3.40806	1.57484	-0.24432	-1.64431	0.24893	-0.00204	0.61750	0.73698	0.00243	0.78420
0.36784	-3.43202	1.58140	-0.24851	-1.64993	0.26671	-0.00209	0.63696	0.73058	0.00142	0.79251
0.37649	-3.63651	1.58467	-0.25017	-1.61705	0.25501	-0.00213	0.57682	0.74224	0.00068	0.79872
0.38536	-3.79096	1.58896	-0.25255	-1.59544	0.25051	-0.00217	0.54106	0.74858	0.00015	0.80311
0.39442	-3.97036	1.59259	-0.25488	-1.56854	0.24248	-0.00221	0.49697	0.75739	-0.00018	0.80587
0.40370	-4.16083	1.59570	-0.25746	-1.53911	0.23296	-0.00225	0.45109	0.76745	-0.00044	0.80793
0.41321	-4.34483	1.59837	-0.26060	-1.51058	0.22372	-0.00229	0.40991	0.77709	-0.00078	0.81044
0.42292	-4.50662	1.60073	-0.26452	-1.48621	0.21628	-0.00233	0.37823	0.78446	-0.00130	0.81418
0.43288	-4.63777	1.60307	-0.26923	-1.46819	0.21291	-0.00237	0.35805	0.78815	-0.00201	0.81934
0.44307	-4.73927	1.60549	-0.27459	-1.45665	0.21497	-0.00240	0.34819	0.78794	-0.00283	0.82552
0.45349	-4.82014	1.60793	-0.28050	-1.44985	0.22217	-0.00242	0.34531	0.78479	-0.00363	0.83186
0.46417	-4.89259	1.61028	-0.28676	-1.44523	0.23306	-0.00245	0.34542	0.78015	-0.00426	0.83748
0.47508	-4.96865	1.61241	-0.29317	-1.44013	0.24607	-0.00249	0.34467	0.77549	-0.00467	0.84177
0.48626	-5.05457	1.61422	-0.29963	-1.43300	0.25990	-0.00253	0.34096	0.77167	-0.00487	0.84470
0.49771	-5.14835	1.61572	-0.30612	-1.42414	0.27379	-0.00258	0.33475	0.76865	-0.00492	0.84681
0.50942	-5.24416	1.61719	-0.31268	-1.41481	0.28676	-0.00263	0.32794	0.76588	-0.00488	0.84863
0.52140	-5.33825	1.61900	-0.31928	-1.40607	0.29836	-0.00266	0.32201	0.76290	-0.00473	0.85024
0.53367	-5.42999	1.62143	-0.32581	-1.39838	0.30881	-0.00269	0.31742	0.75960	-0.00444	0.85148
0.54624	-5.52023	1.62450	-0.33217	-1.39159	0.31832	-0.00271	0.31390	0.75610	-0.00406	0.85238
0.55910	-5.60827	1.62805	-0.33829	-1.38564	0.32739	-0.00273	0.31166	0.75226	-0.00362	0.85307
0.57225	-5.69438	1.63181	-0.34410	-1.38012	0.33616	-0.00275	0.31075	0.74797	-0.00320	0.85370
0.58569	-5.77872	1.63540	-0.34956	-1.37447	0.34487	-0.00277	0.31120	0.74311	-0.00287	0.85469
0.59948	-5.85913	1.63862	-0.35481	-1.36891	0.35417	-0.00279	0.31380	0.73736	-0.00269	0.85634
0.61357	-5.93137	1.64161	-0.35993	-1.36435	0.36442	-0.00282	0.31994	0.73030	-0.00260	0.85836
0.62802	-5.99300	1.64474	-0.36503	-1.36165	0.37524	-0.00284	0.33092	0.72165	-0.00247	0.86017
0.64280	-6.04293	1.64842	-0.37009	-1.36141	0.38601	-0.00285	0.34734	0.71153	-0.00224	0.86158
0.65794	-6.08194	1.65284	-0.37507	-1.36373	0.39621	-0.00286	0.36904	0.70035	-0.00197	0.86314
0.67340	-6.11204	1.65788	-0.37984	-1.36815	0.40524	-0.00285	0.39477	0.68886	-0.00179	0.86568
0.68927	-6.13685	1.66335	-0.38439	-1.37377	0.41253	-0.00283	0.42275	0.67779	-0.00179	0.86979
0.70547	-6.15939	1.66914	-0.38865	-1.37980	0.41774	-0.00280	0.45103	0.66772	-0.00198	0.87535
0.72207	-6.18374	1.67531	-0.39268	-1.38541	0.42055	-0.00276	0.47783	0.65903	-0.00227	0.88155
0.73910	-6.21371	1.68187	-0.39643	-1.38983	0.42097	-0.00272	0.50142	0.65192	-0.00253	0.88715
0.75649	-6.25188	1.68871	-0.39986	-1.39243	0.41922	-0.00267	0.52041	0.64648	-0.00267	0.89116
0.77429	-6.29870	1.69569	-0.40300	-1.39308	0.41571	-0.00263	0.53433	0.64259	-0.00262	0.89295
0.79246	-6.35105	1.70274	-0.40592	-1.39241	0.41141	-0.00259	0.54416	0.63993	-0.00239	0.89224
0.81116	-6.40633	1.71009	-0.40873	-1.39123	0.40699	-0.00255	0.55142	0.63812	-0.00198	0.88930
0.83022	-6.46183	1.71790	-0.41139	-1.39022	0.40303	-0.00251	0.55748	0.63686	-0.00144	0.88482
0.84976	-6.51527	1.72644	-0.41389	-1.39021	0.40053	-0.00248	0.56433	0.63569	-0.00084	0.87950
0.86972	-6.56779	1.73574	-0.41618	-1.39101	0.39948	-0.00245	0.57165	0.63463	-0.00021	0.87394
0.89023	-6.62259	1.74574	-0.41827	-1.39204	0.39968	-0.00244	0.57811	0.63389	0.00041	0.86866
0.91116	-6.68291	1.75611	-0.42023	-1.39234	0.40059	-0.00243	0.58148	0.63386	0.00104	0.86409
0.93257	-6.75224	1.76657	-0.42218	-1.39098	0.40156	-0.00243	0.57978	0.63487	0.00167	0.86023
0.95456	-6.83273	1.77695	-0.42427	-1.38744	0.40181	-0.00244	0.57217	0.63701	0.00232	0.85702
0.97704	-6.92272	1.78722	-0.42658	-1.38217	0.40154	-0.00246	0.56009	0.63991	0.00301	0.85428
1.00000	-7.02116	1.79749	-0.42917	-1.37564	0.40108	-0.00248	0.54497	0.64322	0.00376	0.85169
1.02354	-7.12875	1.80790	-0.43209	-1.36805	0.40085	-0.00251	0.52747	0.64671	0.00461	0.84885
1.04767	-7.24569	1.81833	-0.43532	-1.35943	0.40131	-0.00254	0.50823	0.65015	0.00559	0.84553
1.07227	-7.36910	1.82843	-0.43884	-1.35021	0.40311	-0.00258	0.48891	0.65300	0.00664	0.84186
1.09745	-7.49464	1.83808	-0.44267	-1.34126	0.40730	-0.00263	0.47202	0.65454	0.00767	0.83846
1.12334	-7.61767	1.84730	-0.44677	-1.33364	0.41464	-0.00267	0.46009	0.65402	0.00857	0.83620
1.14982	-7.73482	1.85604	-0.45105	-1.32795	0.42487	-0.00272	0.45443	0.65106	0.00923	0.83582
1.17675	-7.84588	1.86432	-0.45542	-1.32409	0.43702	-0.00277	0.45489	0.64579	0.00963	0.83750
1.20453	-7.95544	1.87235	-0.45987	-1.32136	0.45027	-0.00282	0.46036	0.63849	0.00981	0.84105
1.23289	-8.06587	1.88020	-0.46425	-1.31915	0.46398	-0.00287	0.46955	0.62968	0.00979	0.84603
1.26183	-8.17863	1.88790	-0.46847	-1.31711	0.47830	-0.00291	0.48202	0.61953	0.00965	0.85203
1.29149	-8.29364	1.89530	-0.47248	-1.31513	0.49345	-0.00296	0.49837	0.60786	0.00942	0.85870
1.32188	-8.40943	1.90233	-0.47620	-1.31344	0.50944	-0.00301	0.51981	0.59445	0.00917	0.86550
1.35300	-8.52531	1.90914	-0.47961	-1.31230	0.52645	-0.00305	0.54737	0.57931	0.00905	0.87153
1.38485	-8.64045	1.91590	-0.48271	-1.31200	0.54424	-0.00310	0.58228	0.56249	0.00919	0.87580
1.41743	-8.75446	1.92265	-0.48546	-1.31259	0.56207	-0.00314	0.62542	0.54418	0.00966	0.87784
1.45075	-8.86635	1.92936	-0.48780	-1.31414	0.57955	-0.00317	0.67815	0.52451	0.01044	0.87786
1.48500	-8.97582	1.93602	-0.48971	-1.31666	0.59648	-0.00320	0.74239	0.50356	0.01142	0.87659
1.51999	-9.08191	1.94264	-0.49111	-1.32011	0.61280	-0.00322	0.81912	0.48175	0.01249	0.87463
1.55569	-9.18454	1.94930	-0.49197	-1.32448	0.62912	-0.00324	0.90959	0.45938	0.01360	0.87236
1.59236	-9.28586	1.95602	-0.49226	-1.32934	0.64536	-0.00325	1.01463	0.43668	0.01470	0.87009
1.62973	-9.38681	1.96277	-0.49191	-1.33427	0.66107	-0.00327	1.13343	0.41412	0.01575	0.86796
1.66806	-9.48887	1.96968	-0.49089	-1.33915	0.67662	-0.00329	1.26710	0.39176	0.01675	0.86600
1.70736	-9.59293	1.97681	-0.48920	-1.34383	0.69227	-0.00330	1.41537	0.36984	0.01767	0.86437
1.74764	-9.69902	1.98426	-0.48688	-1.34831	0.70836	-0.00332	1.57824	0.34856	0.01850	0.86337
1.78859	-9.80652	1.99199	-0.48401	-1.35248	0.72440	-0.00334	1.75314	0.32828	0.01919	0.86324
1.83083	-9.91827	2.00013	-0.48061	-1.35614	0.74003	-0.00336	1.93928	0.30893	0.01976	0.86400
1.87371	-10.03305	2.00851	-0.47682	-1.35904	0.75458	-0.00338	2.13041	0.29097	0.02023	0.86553
1.91791	-10.15327	2.01723	-0.47263	-1.36104	0.76794	-0.00339	2.32544	0.27419	0.02064	0.86761
1.96309	-10.27787	2.02617	-0.46814	-1.36206	0.77992	-0.00341	2.51969	0.25876	0.02101	0.87007

2.00924	-10.40592	2.03525	-0.46339	-1.36224	0.79062	-0.00342	2.71126	0.24462	0.02132	0.87287
2.05634	-10.53605	2.04441	-0.45843	-1.36177	0.80033	-0.00343	2.89948	0.23165	0.02156	0.87600
2.10482	-10.66905	2.05369	-0.45327	-1.36070	0.80917	-0.00344	3.08345	0.21974	0.02173	0.87941
2.15424	-10.80358	2.06302	-0.44799	-1.35905	0.81707	-0.00346	3.25866	0.20900	0.02185	0.88285
2.20507	-10.94080	2.07248	-0.44259	-1.35682	0.82415	-0.00347	3.42401	0.19929	0.02192	0.88622
2.25683	-11.07947	2.08198	-0.43714	-1.35403	0.83036	-0.00348	3.57568	0.19065	0.02193	0.88954
2.31000	-11.22062	2.09164	-0.43164	-1.35075	0.83587	-0.00348	3.71393	0.18297	0.02191	0.89286
2.36463	-11.36450	2.10152	-0.42610	-1.34697	0.84062	-0.00349	3.83654	0.17621	0.02184	0.89623
2.42014	-11.50945	2.11155	-0.42060	-1.34281	0.84462	-0.00350	3.94177	0.17040	0.02175	0.89968
2.47709	-11.65652	2.12182	-0.41509	-1.33831	0.84801	-0.00350	4.03096	0.16540	0.02161	0.90336
2.53550	-11.80526	2.13237	-0.40958	-1.33362	0.85090	-0.00351	4.10483	0.16116	0.02145	0.90741
2.59471	-11.95372	2.14309	-0.40415	-1.32887	0.85335	-0.00351	4.16364	0.15766	0.02125	0.91189
2.65604	-12.10465	2.15416	-0.39865	-1.32402	0.85549	-0.00352	4.20989	0.15476	0.02102	0.91693
2.71887	-12.25611	2.16551	-0.39318	-1.31923	0.85738	-0.00352	4.24369	0.15246	0.02076	0.92254
2.78242	-12.40594	2.17696	-0.38778	-1.31460	0.85906	-0.00352	4.26613	0.15074	0.02047	0.92870
2.84819	-12.55714	2.18867	-0.38233	-1.31004	0.86058	-0.00352	4.27878	0.14951	0.02014	0.93563
2.91545	-12.70833	2.20060	-0.37694	-1.30558	0.86193	-0.00352	4.28139	0.14874	0.01978	0.94333
2.98329	-12.85659	2.21236	-0.37162	-1.30129	0.86310	-0.00352	4.27550	0.14842	0.01939	0.95156
3.05344	-13.00602	2.22441	-0.36632	-1.29711	0.86417	-0.00352	4.26114	0.14850	0.01897	0.96031
3.12598	-13.15588	2.23653	-0.36097	-1.29304	0.86515	-0.00352	4.23969	0.14895	0.01852	0.96935
3.19898	-13.30227	2.24851	-0.35578	-1.28921	0.86606	-0.00351	4.21243	0.14972	0.01807	0.97816
3.27439	-13.44890	2.26053	-0.35055	-1.28550	0.86689	-0.00351	4.17966	0.15080	0.01761	0.98667
3.35121	-13.59340	2.27247	-0.34543	-1.28201	0.86773	-0.00350	4.14303	0.15211	0.01715	0.99460
3.43053	-13.73785	2.28441	-0.34025	-1.27867	0.86854	-0.00350	4.10273	0.15367	0.01668	1.00225
3.51124	-13.87993	2.29628	-0.33520	-1.27558	0.86940	-0.00349	4.06044	0.15538	0.01621	1.00976
3.59324	-14.01907	2.30782	-0.33014	-1.27273	0.87026	-0.00349	4.01730	0.15724	0.01575	1.01744
3.67782	-14.15868	2.31968	-0.32516	-1.27009	0.87122	-0.00348	3.97211	0.15925	0.01527	1.02572
3.76506	-14.29613	2.33106	-0.32007	-1.26767	0.87219	-0.00348	3.92732	0.16137	0.01478	1.03502
3.85356	-14.43363	2.34299	-0.31514	-1.26546	0.87325	-0.00347	3.88040	0.16361	0.01429	1.04509
3.94477	-14.56720	2.35405	-0.31011	-1.26350	0.87434	-0.00346	3.83577	0.16589	0.01379	1.05593
4.03714	-14.70188	2.36584	-0.30519	-1.26170	0.87548	-0.00345	3.78858	0.16832	0.01328	1.06704
4.13223	-14.83336	2.37705	-0.30028	-1.26014	0.87669	-0.00345	3.74384	0.17074	0.01278	1.07832
4.23012	-14.96488	2.38827	-0.29523	-1.25876	0.87791	-0.00344	3.69866	0.17327	0.01226	1.08948
4.32900	-15.09689	2.40019	-0.29041	-1.25752	0.87923	-0.00343	3.65298	0.17582	0.01177	1.09986
4.43066	-15.22230	2.41057	-0.28542	-1.25652	0.88054	-0.00342	3.61244	0.17827	0.01127	1.10972
4.53515	-15.35370	2.42242	-0.28043	-1.25560	0.88191	-0.00341	3.56846	0.18087	0.01079	1.11898
4.64253	-15.48289	2.43397	-0.27555	-1.25483	0.88337	-0.00340	3.52767	0.18335	0.01032	1.12759
4.75059	-15.60416	2.44396	-0.27051	-1.25426	0.88475	-0.00339	3.49146	0.18573	0.00985	1.13561
4.86145	-15.73451	2.45620	-0.26557	-1.25371	0.88621	-0.00338	3.45055	0.18826	0.00940	1.14304
4.97760	-15.86116	2.46738	-0.26063	-1.25329	0.88775	-0.00337	3.41435	0.19062	0.00896	1.15014
5.09424	-15.98025	2.47706	-0.25550	-1.25304	0.88917	-0.00336	3.38211	0.19290	0.00851	1.15682
5.21376	-16.11092	2.48959	-0.25049	-1.25277	0.89069	-0.00335	3.34444	0.19534	0.00808	1.16305
5.33618	-16.23431	2.50068	-0.24567	-1.25263	0.89225	-0.00333	3.31269	0.19750	0.00768	1.16898
5.46150	-16.34808	2.50942	-0.24053	-1.25268	0.89372	-0.00332	3.28656	0.19954	0.00725	1.17492
5.58971	-16.47543	2.52140	-0.23541	-1.25270	0.89526	-0.00331	3.25415	0.20179	0.00683	1.18071
5.72082	-16.60294	2.53377	-0.23063	-1.25274	0.89689	-0.00330	3.22365	0.20387	0.00645	1.18641
5.85823	-16.71300	2.54166	-0.22552	-1.25304	0.89843	-0.00329	3.20345	0.20563	0.00604	1.19260
5.99520	-16.82969	2.55145	-0.22032	-1.25336	0.89994	-0.00328	3.17961	0.20753	0.00563	1.19880
6.13497	-16.96071	2.56484	-0.21538	-1.25361	0.90158	-0.00326	3.15054	0.20955	0.00527	1.20491
6.28141	-17.07615	2.57454	-0.21063	-1.25400	0.90320	-0.00325	3.13090	0.21116	0.00492	1.21132
6.42674	-17.17429	2.58058	-0.20565	-1.25458	0.90466	-0.00324	3.11816	0.21254	0.00454	1.21792
6.57895	-17.29265	2.59086	-0.20041	-1.25513	0.90624	-0.00323	3.09800	0.21424	0.00416	1.22474
6.73401	-17.42528	2.60479	-0.19550	-1.25560	0.90792	-0.00321	3.07326	0.21602	0.00384	1.23140
6.89180	-17.52888	2.61245	-0.19104	-1.25622	0.90947	-0.00320	3.06114	0.21722	0.00353	1.23821
7.05716	-17.61903	2.61645	-0.18610	-1.25704	0.91095	-0.00319	3.05488	0.21828	0.00317	1.24552
7.22022	-17.72499	2.62464	-0.18114	-1.25781	0.91246	-0.00318	3.04186	0.21959	0.00284	1.25241
7.39098	-17.85481	2.63805	-0.17614	-1.25851	0.91410	-0.00317	3.02169	0.22115	0.00254	1.25903
7.56430	-17.96420	2.64740	-0.17193	-1.25921	0.91567	-0.00315	3.00959	0.22225	0.00229	1.26524
7.73994	-18.03118	2.64722	-0.16785	-1.26012	0.91701	-0.00315	3.01156	0.22280	0.00198	1.27144
7.92393	-18.11577	2.65053	-0.16323	-1.26109	0.91847	-0.00314	3.00802	0.22364	0.00166	1.27736
8.11030	-18.21806	2.65800	-0.15846	-1.26202	0.91997	-0.00313	2.99864	0.22471	0.00136	1.28269
8.29876	-18.34394	2.67113	-0.15376	-1.26286	0.92150	-0.00311	2.98228	0.22601	0.00112	1.28729
8.49618	-18.42833	2.67508	-0.15018	-1.26371	0.92290	-0.00310	2.97959	0.22662	0.00090	1.29181
8.69565	-18.46447	2.66849	-0.14708	-1.26471	0.92422	-0.00310	2.99077	0.22664	0.00061	1.29655
8.90472	-18.52624	2.66716	-0.14333	-1.26577	0.92570	-0.00309	2.99464	0.22702	0.00032	1.30121
9.11577	-18.59703	2.66807	-0.13949	-1.26682	0.92718	-0.00308	2.99541	0.22751	0.00005	1.30572
9.32836	-18.70396	2.67702	-0.13489	-1.26785	0.92858	-0.00307	2.98535	0.22853	-0.00020	1.31004
9.54198	-18.79629	2.68346	-0.13138	-1.26872	0.92987	-0.00306	2.97949	0.22923	-0.00039	1.31427
9.76563	-18.80080	2.67103	-0.13035	-1.26954	0.93129	-0.00306	2.99880	0.22859	-0.00059	1.31931
10.00000	-18.79854	2.65694	-0.12937	-1.27048	0.93299	-0.00306	3.02082	0.22782	-0.00081	1.32516

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Median stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 152 - 305 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-0.26868	2.23622	-0.28101	-2.75588	0.91653	-0.00069	9.28163	0.26550	0.02225	0.27892
PGV	10.59472	1.84787	-0.20540	-3.98508	1.03880	0.00060	20.88470	0.24226	-0.00065	0.42499
PGA	6.34309	1.62150	-0.07759	-3.54815	0.53000	-0.00002	11.01087	0.41220	-0.02761	0.77163
0.01000	6.19094	1.63032	-0.07603	-3.51643	0.50110	-0.00005	10.81345	0.41864	-0.01622	0.75606
0.01024	6.19406	1.63059	-0.07581	-3.51670	0.50018	-0.00005	10.81304	0.41883	-0.01624	0.75646
0.01048	6.20032	1.63085	-0.07559	-3.51751	0.49938	-0.00005	10.81814	0.41896	-0.01626	0.75683
0.01072	6.20963	1.63110	-0.07536	-3.51884	0.49868	-0.00005	10.82855	0.41903	-0.01629	0.75718
0.01097	6.22202	1.63135	-0.07512	-3.52068	0.49808	-0.00005	10.84427	0.41905	-0.01632	0.75752
0.01123	6.23757	1.63160	-0.07488	-3.52306	0.49757	-0.00004	10.86542	0.41901	-0.01636	0.75784
0.01150	6.25649	1.63186	-0.07462	-3.52601	0.49713	-0.00004	10.89230	0.41891	-0.01641	0.75815
0.01177	6.27901	1.63212	-0.07435	-3.52956	0.49676	-0.00004	10.92529	0.41876	-0.01646	0.75847
0.01205	6.30537	1.63238	-0.07407	-3.53374	0.49646	-0.00004	10.96481	0.41854	-0.01652	0.75879
0.01233	6.33595	1.63266	-0.07376	-3.53863	0.49622	-0.00003	11.01151	0.41827	-0.01659	0.75913
0.01262	6.37114	1.63296	-0.07343	-3.54429	0.49606	-0.00003	11.06604	0.41792	-0.01666	0.75949
0.01292	6.41131	1.63328	-0.07308	-3.55076	0.49597	-0.00002	11.12906	0.41751	-0.01675	0.75989
0.01322	6.45710	1.63361	-0.07270	-3.55816	0.49593	-0.00001	11.20162	0.41702	-0.01685	0.76035
0.01353	6.50954	1.63398	-0.07228	-3.56666	0.49595	-0.00001	11.28556	0.41644	-0.01696	0.76089
0.01385	6.56953	1.63438	-0.07183	-3.57641	0.49603	0.00000	11.38252	0.41576	-0.01709	0.76152
0.01417	6.63807	1.63482	-0.07133	-3.58756	0.49621	0.00001	11.49433	0.41496	-0.01723	0.76227
0.01451	6.71576	1.63531	-0.07079	-3.60021	0.49647	0.00002	11.62209	0.41406	-0.01739	0.76315
0.01485	6.80311	1.63586	-0.07018	-3.61443	0.49680	0.00003	11.76678	0.41304	-0.01757	0.76420
0.01520	6.90043	1.63646	-0.06952	-3.63025	0.49721	0.00005	11.92934	0.41191	-0.01777	0.76542
0.01556	7.00851	1.63712	-0.06877	-3.64776	0.49768	0.00006	12.11152	0.41066	-0.01800	0.76686
0.01592	7.12938	1.63784	-0.06795	-3.66730	0.49820	0.00008	12.31699	0.40929	-0.01825	0.76856
0.01630	7.26389	1.63864	-0.06702	-3.68900	0.49875	0.00009	12.54758	0.40777	-0.01853	0.77051
0.01668	7.41076	1.63955	-0.06600	-3.71265	0.49939	0.00011	12.80126	0.40616	-0.01884	0.77267
0.01707	7.56697	1.64060	-0.06488	-3.73775	0.50005	0.00013	13.07207	0.40450	-0.01915	0.77499
0.01748	7.72886	1.64176	-0.06366	-3.76363	0.50060	0.00015	13.35377	0.40287	-0.01950	0.77757
0.01789	7.89416	1.64296	-0.06232	-3.78978	0.50096	0.00017	13.64356	0.40129	-0.01990	0.78048
0.01831	8.06215	1.64413	-0.06089	-3.81598	0.50106	0.00019	13.94117	0.39976	-0.02031	0.78360
0.01874	8.23150	1.64521	-0.05938	-3.84199	0.50086	0.00020	14.24430	0.39829	-0.02074	0.78680
0.01918	8.40543	1.64624	-0.05777	-3.86840	0.50053	0.00022	14.55889	0.39684	-0.02116	0.79002
0.01963	8.58724	1.64731	-0.05604	-3.89584	0.50024	0.00023	14.89137	0.39536	-0.02159	0.79329
0.02009	8.77073	1.64845	-0.05423	-3.92329	0.49946	0.00025	15.22821	0.39397	-0.02203	0.79661
0.02057	8.93726	1.64981	-0.05235	-3.94779	0.49773	0.00026	15.52758	0.39299	-0.02244	0.79973
0.02105	9.07865	1.65163	-0.05043	-3.96828	0.49565	0.00027	15.77068	0.39252	-0.02281	0.80261
0.02154	9.20849	1.65396	-0.04850	-3.98713	0.49389	0.00028	15.98672	0.39232	-0.02317	0.80541
0.02205	9.32863	1.65647	-0.04659	-4.00428	0.49192	0.00028	16.18245	0.39231	-0.02353	0.80826
0.02257	9.44559	1.65895	-0.04472	-4.02062	0.48948	0.00028	16.37279	0.39239	-0.02391	0.81131
0.02310	9.56207	1.66148	-0.04290	-4.03690	0.48652	0.00028	16.55817	0.39254	-0.02429	0.81432
0.02364	9.65426	1.66375	-0.04109	-4.04908	0.48254	0.00028	16.68824	0.39304	-0.02467	0.81741
0.02420	9.70188	1.66558	-0.03924	-4.05340	0.47801	0.00028	16.73196	0.39408	-0.02511	0.82096
0.02477	9.71122	1.66751	-0.03739	-4.05116	0.47376	0.00027	16.70608	0.39557	-0.02559	0.82477
0.02535	9.68713	1.66979	-0.03553	-4.04338	0.46983	0.00024	16.61688	0.39752	-0.02602	0.82824
0.02595	9.62805	1.67244	-0.03358	-4.02989	0.46575	0.00021	16.45493	0.40000	-0.02631	0.83066
0.02656	9.52473	1.67548	-0.03150	-4.00918	0.46083	0.00017	16.19834	0.40324	-0.02641	0.83185
0.02719	9.39069	1.67829	-0.02944	-3.98326	0.45451	0.00013	15.87424	0.40700	-0.02631	0.83176
0.02783	9.25353	1.68058	-0.02748	-3.95685	0.44692	0.00010	15.53659	0.41088	-0.02612	0.83101
0.02848	9.11364	1.68289	-0.02547	-3.93016	0.43903	0.00007	15.19464	0.41486	-0.02601	0.83089
0.02915	8.95832	1.68600	-0.02334	-3.90120	0.43177	0.00003	14.83205	0.41915	-0.02596	0.83126
0.02984	8.78883	1.69028	-0.02124	-3.87047	0.42510	-0.00001	14.44836	0.42381	-0.02583	0.83129
0.03054	8.60282	1.69488	-0.01924	-3.83706	0.41783	-0.00006	14.03768	0.42885	-0.02568	0.83119
0.03126	8.38385	1.69889	-0.01718	-3.79757	0.40904	-0.00011	13.57236	0.43447	-0.02558	0.83137
0.03199	8.16507	1.70276	-0.01511	-3.75816	0.39985	-0.00016	13.11230	0.44021	-0.02543	0.83146
0.03275	7.95866	1.70683	-0.01311	-3.72146	0.39167	-0.00020	12.67766	0.44579	-0.02518	0.83106
0.03352	7.74447	1.71075	-0.01118	-3.68380	0.38479	-0.00025	12.23772	0.45143	-0.02490	0.83043
0.03430	7.54024	1.71488	-0.00933	-3.64830	0.37982	-0.00030	11.82994	0.45679	-0.02472	0.83031
0.03511	7.32424	1.71969	-0.00735	-3.61162	0.37607	-0.00035	11.41254	0.46237	-0.02453	0.83011
0.03594	7.07810	1.72518	-0.00512	-3.57060	0.37241	-0.00042	10.94959	0.46864	-0.02418	0.82880
0.03678	6.82793	1.73087	-0.00295	-3.52906	0.36744	-0.00047	10.48482	0.47525	-0.02374	0.82696
0.03765	6.58220	1.73655	-0.00106	-3.48793	0.35962	-0.00052	10.02961	0.48221	-0.02334	0.82560
0.03854	6.32064	1.74241	0.00075	-3.44402	0.34985	-0.00057	9.55366	0.48985	-0.02300	0.82477
0.03944	6.02837	1.74807	0.00274	-3.39475	0.33960	-0.00062	9.04313	0.49827	-0.02269	0.82407
0.04037	5.71620	1.75302	0.00490	-3.34143	0.32867	-0.00068	8.52216	0.50721	-0.02237	0.82305
0.04132	5.39910	1.75676	0.00713	-3.28631	0.31761	-0.00073	8.01870	0.51625	-0.02204	0.82192
0.04229	5.10521	1.75940	0.00910	-3.23460	0.30719	-0.00078	7.56687	0.52478	-0.02182	0.82159
0.04329	4.85777	1.76204	0.01055	-3.19121	0.29757	-0.00082	7.18982	0.53240	-0.02169	0.82185
0.04431	4.64612	1.76520	0.01153	-3.15461	0.28894	-0.00085	6.87070	0.53928	-0.02147	0.82149
0.04535	4.43002	1.76776	0.01240	-3.11702	0.28035	-0.00088	6.55461	0.54628	-0.02122	0.82082

0.04642	4.17925	1.76929	0.01346	-3.07279	0.27003	-0.00092	6.20051	0.55430	-0.02108	0.82075
0.04751	3.90530	1.77039	0.01475	-3.02443	0.25870	-0.00095	5.82528	0.56317	-0.02105	0.82134
0.04863	3.63409	1.77151	0.01607	-2.97690	0.24805	-0.00098	5.46374	0.57219	-0.02106	0.82210
0.04977	3.38362	1.77313	0.01726	-2.93358	0.23759	-0.00101	5.13261	0.58107	-0.02099	0.82223
0.05094	3.16753	1.77566	0.01822	-2.89680	0.22749	-0.00103	4.84653	0.58944	-0.02080	0.82137
0.05214	2.98313	1.77851	0.01909	-2.86515	0.21937	-0.00105	4.61180	0.59688	-0.02037	0.81862
0.05337	2.80946	1.78010	0.01985	-2.83378	0.21168	-0.00108	4.40437	0.60375	-0.01968	0.81383
0.05462	2.65871	1.78066	0.02020	-2.80569	0.20439	-0.00110	4.22470	0.60993	-0.01886	0.80830
0.05591	2.56420	1.78100	0.01985	-2.78778	0.19964	-0.00111	4.09946	0.61443	-0.01815	0.80360
0.05722	2.49698	1.78073	0.01893	-2.77462	0.19657	-0.00110	4.00126	0.61796	-0.01757	0.80010
0.05857	2.41110	1.78036	0.01794	-2.75859	0.19350	-0.00111	3.88775	0.62196	-0.01706	0.79735
0.05995	2.29587	1.78096	0.01725	-2.73875	0.19070	-0.00112	3.75233	0.62677	-0.01672	0.79591
0.06136	2.17121	1.78182	0.01676	-2.71789	0.18907	-0.00113	3.61759	0.63153	-0.01672	0.79661
0.06280	2.04224	1.78216	0.01647	-2.69608	0.18828	-0.00116	3.48650	0.63615	-0.01680	0.79797
0.06428	1.91195	1.78199	0.01621	-2.67354	0.18648	-0.00118	3.35598	0.64091	-0.01661	0.79765
0.06579	1.78798	1.78023	0.01554	-2.65043	0.18253	-0.00119	3.23122	0.64565	-0.01618	0.79578
0.06734	1.66632	1.77675	0.01442	-2.62576	0.17666	-0.00120	3.11049	0.65042	-0.01581	0.79395
0.06893	1.53802	1.77253	0.01294	-2.59898	0.16870	-0.00120	2.98518	0.65567	-0.01563	0.79310
0.07055	1.40921	1.76806	0.01108	-2.57177	0.15823	-0.00120	2.85816	0.66137	-0.01552	0.79307
0.07221	1.28651	1.76358	0.00880	-2.54587	0.14452	-0.00118	2.73211	0.66741	-0.01530	0.79280
0.07391	1.16453	1.75908	0.00634	-2.52080	0.13230	-0.00116	2.60948	0.67333	-0.01497	0.79169
0.07565	1.06386	1.75388	0.00392	-2.49945	0.12832	-0.00116	2.51586	0.67737	-0.01453	0.78957
0.07743	0.99117	1.74921	0.00166	-2.48298	0.12913	-0.00117	2.45389	0.67976	-0.01395	0.78612
0.07925	0.92347	1.74603	-0.00034	-2.46778	0.12979	-0.00118	2.40003	0.68209	-0.01352	0.78345
0.08111	0.82217	1.74464	-0.00165	-2.44775	0.13033	-0.00121	2.32445	0.68598	-0.01340	0.78253
0.08302	0.72764	1.74432	-0.00287	-2.43038	0.13112	-0.00123	2.25004	0.68999	-0.01329	0.78158
0.08498	0.66101	1.74358	-0.00460	-2.41814	0.13103	-0.00124	2.19123	0.69311	-0.01318	0.78092
0.08697	0.61908	1.73997	-0.00729	-2.40793	0.12891	-0.00123	2.14945	0.69497	-0.01330	0.78237
0.08902	0.57586	1.73365	-0.01047	-2.39502	0.12450	-0.00123	2.10978	0.69651	-0.01356	0.78529
0.09112	0.53334	1.72643	-0.01391	-2.38173	0.11948	-0.00121	2.07196	0.69783	-0.01377	0.78808
0.09326	0.47136	1.72021	-0.01729	-2.36641	0.11477	-0.00120	2.02199	0.69995	-0.01385	0.79021
0.09545	0.39054	1.71487	-0.02032	-2.34880	0.11341	-0.00121	1.96554	0.70240	-0.01380	0.79141
0.09770	0.32784	1.71010	-0.02327	-2.33517	0.11895	-0.00122	1.92942	0.70314	-0.01356	0.79150
0.10000	0.25497	1.70650	-0.02584	-2.32089	0.12704	-0.00125	1.88989	0.70411	-0.01336	0.79206
0.10235	0.14279	1.70345	-0.02774	-2.29973	0.13077	-0.00128	1.82177	0.70757	-0.01342	0.79487
0.10476	0.01059	1.70040	-0.02925	-2.27432	0.12812	-0.00129	1.73658	0.71303	-0.01364	0.79963
0.10723	-0.11452	1.69784	-0.03088	-2.25019	0.12032	-0.00129	1.65257	0.71913	-0.01385	0.80485
0.10975	-0.22227	1.69484	-0.03308	-2.22885	0.11018	-0.00128	1.57904	0.72467	-0.01387	0.80871
0.11233	-0.32142	1.68994	-0.03554	-2.20745	0.10209	-0.00128	1.51599	0.72908	-0.01359	0.81017
0.11498	-0.41686	1.68399	-0.03779	-2.18573	0.09983	-0.00130	1.46308	0.73226	-0.01321	0.81028
0.11768	-0.52667	1.67962	-0.03944	-2.16275	0.10280	-0.00134	1.40943	0.73554	-0.01314	0.81155
0.12045	-0.62479	1.67596	-0.04133	-2.14246	0.10745	-0.00139	1.36506	0.73811	-0.01349	0.81499
0.12328	-0.70381	1.67021	-0.04411	-2.12384	0.10948	-0.00141	1.32679	0.74011	-0.01401	0.81936
0.12619	-0.76315	1.66213	-0.04785	-2.10742	0.10971	-0.00142	1.29067	0.74179	-0.01431	0.82273
0.12916	-0.79630	1.65505	-0.05198	-2.09787	0.11252	-0.00141	1.26368	0.74246	-0.01412	0.82312
0.13219	-0.82019	1.65143	-0.05552	-2.09383	0.11953	-0.00141	1.24589	0.74225	-0.01346	0.82024
0.13531	-0.84898	1.64968	-0.05854	-2.09037	0.12705	-0.00142	1.23281	0.74172	-0.01258	0.81536
0.13849	-0.89065	1.64867	-0.06147	-2.08454	0.13109	-0.00142	1.21671	0.74189	-0.01149	0.80869
0.14175	-0.92322	1.64856	-0.06491	-2.08070	0.13371	-0.00142	1.20535	0.74185	-0.01010	0.79985
0.14508	-0.92825	1.64924	-0.06911	-2.08247	0.13878	-0.00142	1.20749	0.74038	-0.00849	0.78914
0.14850	-0.90774	1.64892	-0.07406	-2.08799	0.14498	-0.00141	1.22172	0.73738	-0.00701	0.77909
0.15199	-0.89013	1.64583	-0.07953	-2.09065	0.14806	-0.00140	1.23220	0.73450	-0.00598	0.77204
0.15557	-0.91592	1.64001	-0.08504	-2.08320	0.14605	-0.00138	1.21847	0.73388	-0.00557	0.76883
0.15923	-0.97930	1.63258	-0.09050	-2.06742	0.14085	-0.00137	1.18677	0.73500	-0.00580	0.76959
0.16298	-1.04678	1.62592	-0.09591	-2.05109	0.13657	-0.00137	1.15838	0.73584	-0.00635	0.77233
0.16681	-1.09127	1.62052	-0.10124	-2.03967	0.13576	-0.00137	1.14669	0.73488	-0.00659	0.77332
0.17074	-1.11441	1.61490	-0.10625	-2.03188	0.13836	-0.00138	1.14782	0.73233	-0.00636	0.77157
0.17475	-1.13696	1.60882	-0.11068	-2.02375	0.14498	-0.00140	1.15173	0.72924	-0.00594	0.76899
0.17887	-1.18179	1.60360	-0.11454	-2.01206	0.15486	-0.00144	1.14812	0.72701	-0.00548	0.76678
0.18307	-1.27219	1.59914	-0.11814	-1.99258	0.16281	-0.00150	1.12159	0.72758	-0.00493	0.76455
0.18738	-1.41430	1.59321	-0.12184	-1.96272	0.16333	-0.00154	1.06377	0.73199	-0.00442	0.76287
0.19179	-1.59014	1.58418	-0.12575	-1.92448	0.15782	-0.00157	0.98538	0.73912	-0.00429	0.76361
0.19631	-1.76574	1.57314	-0.12957	-1.88473	0.15265	-0.00160	0.90960	0.74622	-0.00457	0.76706
0.20092	-1.91907	1.56402	-0.13283	-1.85066	0.15093	-0.00163	0.84992	0.75185	-0.00486	0.77080
0.20565	-2.04405	1.56048	-0.13531	-1.82664	0.15199	-0.00166	0.80743	0.75619	-0.00465	0.77126
0.21049	-2.13855	1.56284	-0.13741	-1.81347	0.15394	-0.00168	0.77960	0.75950	-0.00366	0.76625
0.21544	-2.21570	1.56875	-0.13954	-1.80638	0.15416	-0.00169	0.75903	0.76262	-0.00207	0.75658
0.22051	-2.29290	1.57455	-0.14211	-1.79854	0.15169	-0.00170	0.73875	0.76603	-0.00025	0.74499
0.22570	-2.37926	1.57704	-0.14539	-1.78551	0.14862	-0.00170	0.71588	0.76946	0.00141	0.73456
0.23101	-2.47069	1.57566	-0.14923	-1.76817	0.14847	-0.00173	0.69294	0.77203	0.00267	0.72715
0.23645	-2.56565	1.57134	-0.15334	-1.74826	0.15185	-0.00176	0.66976	0.77375	0.00352	0.72265
0.24201	-2.65916	1.56472	-0.15771	-1.72723	0.15663	-0.00180	0.64651	0.77488	0.00391	0.72096
0.24771	-2.73428	1.55695	-0.16253	-1.70843	0.16280	-0.00184	0.63078	0.77432	0.00360	0.72362
0.25354	-2.77813	1.55023	-0.16766	-1.69552	0.17322	-0.00188	0.63066	0.77081	0.00268	0.73050
0.25950	-2.78962	1.54706	-0.17285	-1.69107	0.18731	-0.00193	0.64772	0.76455	0.00164	0.73891
0.26561	-2.77249	1.54840	-0.17809	-1.69593	0.20094	-0.00197	0.67881	0.75668	0.00088	0.74618
0.27186	-2.73597	1.55304	-0.18342	-1.70785	0.21131	-0.00198	0.71815	0.74833	0.00050	0.75123
0.27826	-2.69397	1.55912	-0.18872	-1.72276	0.21911	-0.00197	0.75952	0.74026	0.00029	0.75505
0.28480	-2.65944	1.56495	-0.19389	-1.73667	0.22599	-0.00196	0.79766	0.73289	-0.00003	0.75953
0.29150	-2.64512	1.56948	-0.19900	-1.74619	0.23200	-0.00196	0.82592	0.72693	-0.00050	0.76491
0.29836	-2.65953	1.57182	-0.20415	-1.74900	0.23663	-0.00195	0.83802	0.72302	-0.00084	0.76946

0.30539	-2.70308	1.57139	-0.20935	-1.74435	0.23989	-0.00195	0.83306	0.72111	-0.00082	0.77165
0.31257	-2.76336	1.56839	-0.21469	-1.73429	0.24114	-0.00194	0.81808	0.72031	-0.00057	0.77227
0.31993	-2.83002	1.56395	-0.22031	-1.72151	0.23823	-0.00192	0.79885	0.72013	-0.00036	0.77277
0.32745	-2.89749	1.55961	-0.22628	-1.70850	0.23002	-0.00189	0.77833	0.72042	-0.00024	0.77341
0.33517	-2.95975	1.55660	-0.23265	-1.69782	0.21851	-0.00185	0.76025	0.72063	-0.00009	0.77350
0.34304	-3.01154	1.55549	-0.23925	-1.69112	0.20747	-0.00180	0.74845	0.72004	0.00010	0.77302
0.35112	-3.05446	1.55619	-0.24571	-1.68796	0.20007	-0.00175	0.74373	0.71834	0.00020	0.77312
0.35938	-3.09503	1.55843	-0.25154	-1.68666	0.19762	-0.00173	0.74425	0.71582	0.00018	0.77425
0.36784	-3.15012	1.56186	-0.25651	-1.68360	0.19820	-0.00172	0.74187	0.71389	0.00018	0.77556
0.37649	-3.23901	1.56593	-0.26062	-1.67458	0.19881	-0.00174	0.72605	0.71437	0.00021	0.77652
0.38536	-3.35702	1.57052	-0.26418	-1.66048	0.19994	-0.00177	0.69900	0.71694	0.00024	0.77705
0.39442	-3.48373	1.57569	-0.26770	-1.64535	0.20356	-0.00182	0.67100	0.71979	0.00025	0.77724
0.40370	-3.60590	1.58111	-0.27155	-1.63160	0.21001	-0.00188	0.64798	0.72162	0.00028	0.77724
0.41321	-3.71929	1.58645	-0.27582	-1.62003	0.21983	-0.00194	0.63098	0.72200	0.00036	0.77704
0.42292	-3.81893	1.59150	-0.28057	-1.61152	0.23414	-0.00200	0.62150	0.72041	0.00049	0.77691
0.43288	-3.89416	1.59595	-0.28603	-1.60768	0.25293	-0.00207	0.62430	0.71581	0.00063	0.77720
0.44307	-3.93068	1.59982	-0.29234	-1.61110	0.27543	-0.00212	0.64594	0.70713	0.00084	0.77777
0.45349	-3.92528	1.60358	-0.29922	-1.62283	0.30135	-0.00215	0.68902	0.69451	0.00112	0.77884
0.46417	-3.89330	1.60752	-0.30622	-1.64004	0.32935	-0.00217	0.74750	0.67989	0.00134	0.78123
0.47508	-3.85786	1.61186	-0.31295	-1.65810	0.35702	-0.00218	0.81006	0.66580	0.00135	0.78565
0.48626	-3.83746	1.61698	-0.31920	-1.67350	0.38288	-0.00219	0.86598	0.65397	0.00119	0.79176
0.49771	-3.84764	1.62295	-0.32488	-1.68323	0.40613	-0.00221	0.90528	0.64546	0.00104	0.79794
0.50942	-3.90104	1.62908	-0.33000	-1.68414	0.42537	-0.00225	0.92010	0.64072	0.00114	0.80244
0.52140	-3.99861	1.63428	-0.33478	-1.67496	0.43843	-0.00231	0.90964	0.63938	0.00154	0.80478
0.53367	-4.12793	1.63775	-0.33949	-1.65753	0.44368	-0.00236	0.88108	0.64036	0.00205	0.80599
0.54624	-4.26591	1.63968	-0.34432	-1.63677	0.44182	-0.00239	0.84782	0.64193	0.00243	0.80755
0.55910	-4.38908	1.64110	-0.34932	-1.61850	0.43608	-0.00240	0.82390	0.64218	0.00256	0.81028
0.57225	-4.48503	1.64315	-0.35451	-1.60637	0.43024	-0.00240	0.81690	0.63998	0.00254	0.81350
0.58569	-4.55591	1.64622	-0.35987	-1.60038	0.42649	-0.00238	0.82539	0.63555	0.00254	0.81634
0.59948	-4.61262	1.64991	-0.36541	-1.59797	0.42469	-0.00236	0.84212	0.62998	0.00257	0.81882
0.61357	-4.66842	1.65355	-0.37100	-1.59575	0.42413	-0.00234	0.85802	0.62462	0.00259	0.82144
0.62802	-4.73573	1.65690	-0.37641	-1.59101	0.42452	-0.00233	0.86568	0.62040	0.00254	0.82470
0.64280	-4.82536	1.65995	-0.38138	-1.58165	0.42540	-0.00233	0.85857	0.61818	0.00244	0.82855
0.65794	-4.94551	1.66278	-0.38578	-1.56621	0.42625	-0.00235	0.83207	0.61860	0.00237	0.83236
0.67340	-5.09644	1.66536	-0.38968	-1.54467	0.42688	-0.00238	0.78682	0.62179	0.00242	0.83542
0.68927	-5.27302	1.66764	-0.39323	-1.51801	0.42705	-0.00242	0.72807	0.62733	0.00258	0.83761
0.70547	-5.46263	1.66999	-0.39651	-1.48908	0.42661	-0.00247	0.66521	0.63423	0.00281	0.83904
0.72207	-5.65570	1.67322	-0.39961	-1.46070	0.42525	-0.00252	0.60530	0.64155	0.00313	0.83941
0.73910	-5.84594	1.67796	-0.40263	-1.43491	0.42254	-0.00257	0.55241	0.64851	0.00368	0.83772
0.75649	-6.02937	1.68424	-0.40575	-1.41257	0.41852	-0.00261	0.50846	0.65439	0.00458	0.83291
0.77429	-6.20779	1.69155	-0.40911	-1.39274	0.41332	-0.00264	0.47202	0.65907	0.00583	0.82476
0.79246	-6.38340	1.69920	-0.41264	-1.37404	0.40720	-0.00266	0.44093	0.66275	0.00723	0.81468
0.81116	-6.55939	1.70693	-0.41620	-1.35549	0.40026	-0.00269	0.41345	0.66571	0.00843	0.80520
0.83022	-6.73255	1.71478	-0.41963	-1.33761	0.39259	-0.00272	0.39003	0.66780	0.00916	0.79856
0.84976	-6.90005	1.72309	-0.42300	-1.32147	0.38449	-0.00273	0.37190	0.66849	0.00941	0.79517
0.86972	-7.05704	1.73199	-0.42645	-1.30828	0.37707	-0.00274	0.36061	0.66703	0.00939	0.79385
0.89023	-7.20082	1.74156	-0.43020	-1.29882	0.37176	-0.00274	0.35745	0.66272	0.00937	0.79302
0.91116	-7.32746	1.75164	-0.43436	-1.29358	0.37010	-0.00274	0.36369	0.65516	0.00950	0.79190
0.93257	-7.43413	1.76231	-0.43887	-1.29323	0.37422	-0.00274	0.38133	0.64398	0.00986	0.78996
0.95456	-7.52163	1.77352	-0.44364	-1.29753	0.38530	-0.00276	0.41114	0.62950	0.01050	0.78683
0.97704	-7.59428	1.78489	-0.44842	-1.30502	0.40267	-0.00278	0.45163	0.61292	0.01133	0.78297
1.00000	-7.65827	1.79611	-0.45298	-1.31393	0.42434	-0.00281	0.50009	0.59557	0.01218	0.77949
1.02354	-7.71839	1.80718	-0.45717	-1.32312	0.44836	-0.00284	0.55399	0.57847	0.01287	0.77767
1.04767	-7.77546	1.81829	-0.46088	-1.33253	0.47361	-0.00288	0.61198	0.56218	0.01325	0.77849
1.07227	-7.82898	1.82961	-0.46412	-1.34231	0.49913	-0.00291	0.67272	0.54714	0.01328	0.78220
1.09745	-7.88030	1.84124	-0.46690	-1.35230	0.52420	-0.00294	0.73439	0.53365	0.01298	0.78857
1.12334	-7.93203	1.85313	-0.46925	-1.36196	0.54795	-0.00296	0.79409	0.52200	0.01241	0.79720
1.14982	-7.98466	1.86512	-0.47125	-1.37095	0.56949	-0.00298	0.84944	0.51230	0.01161	0.80757
1.17675	-8.03678	1.87708	-0.47296	-1.37941	0.58856	-0.00298	0.89985	0.50437	0.01066	0.81912
1.20453	-8.08769	1.88921	-0.47452	-1.38777	0.60548	-0.00298	0.94646	0.49785	0.00957	0.83157
1.23289	-8.13682	1.90142	-0.47597	-1.39602	0.61976	-0.00298	0.98832	0.49272	0.00840	0.84424
1.26183	-8.18574	1.91368	-0.47736	-1.40380	0.63102	-0.00296	1.02395	0.48892	0.00723	0.85658
1.29149	-8.23738	1.92592	-0.47876	-1.41053	0.63886	-0.00293	1.05169	0.48642	0.00610	0.86814
1.32188	-8.29521	1.93795	-0.48017	-1.41533	0.64279	-0.00290	1.06949	0.48519	0.00512	0.87828
1.35300	-8.36187	1.94958	-0.48165	-1.41754	0.64274	-0.00287	1.07627	0.48515	0.00436	0.88650
1.38485	-8.43899	1.96066	-0.48321	-1.41674	0.63882	-0.00283	1.07185	0.48616	0.00388	0.89261
1.41743	-8.52735	1.97107	-0.48489	-1.41273	0.63098	-0.00280	1.05670	0.48813	0.00366	0.89683
1.45075	-8.62651	1.98081	-0.48670	-1.40569	0.61967	-0.00276	1.03237	0.49087	0.00369	0.89957
1.48500	-8.73658	1.98993	-0.48862	-1.39583	0.60543	-0.00273	1.00042	0.49420	0.00390	0.90131
1.51999	-8.85764	1.99843	-0.49059	-1.38326	0.58864	-0.00269	0.96169	0.49805	0.00425	0.90236
1.55569	-8.99047	2.00648	-0.49258	-1.36817	0.56963	-0.00266	0.91682	0.50237	0.00474	0.90288
1.59236	-9.13472	2.01437	-0.49454	-1.35119	0.54945	-0.00263	0.86792	0.50695	0.00538	0.90291
1.62973	-9.28733	2.02223	-0.49641	-1.33330	0.52931	-0.00261	0.81820	0.51139	0.00613	0.90266
1.66806	-9.44692	2.03025	-0.49815	-1.31515	0.50983	-0.00259	0.77019	0.51533	0.00696	0.90257
1.70736	-9.61015	2.03851	-0.49974	-1.29766	0.49195	-0.00258	0.72736	0.51813	0.00781	0.90310
1.74764	-9.77346	2.04704	-0.50118	-1.28166	0.47648	-0.00257	0.69299	0.51913	0.00862	0.90454
1.78859	-9.93361	2.05577	-0.50246	-1.26771	0.46400	-0.00256	0.66904	0.51783	0.00935	0.90703
1.83083	-10.09054	2.06482	-0.50358	-1.25613	0.45520	-0.00256	0.65719	0.51366	0.01001	0.91077
1.87371	-10.24124	2.07399	-0.50447	-1.24713	0.45066	-0.00257	0.65807	0.50654	0.01058	0.91570
1.91791	-10.38862	2.08348	-0.50506	-1.24048	0.45022	-0.00258	0.67157	0.49650	0.01109	0.92160
1.96309	-10.53124	2.09327	-0.50528	-1.23632	0.45369	-0.00260	0.69839	0.48378	0.01161	0.92786

2.00924	-10.66772	2.10339	-0.50510	-1.23488	0.46113	-0.00262	0.74056	0.46846	0.01220	0.93376
2.05634	-10.79710	2.11368	-0.50447	-1.23613	0.47260	-0.00265	0.80033	0.45072	0.01290	0.93881
2.10482	-10.92038	2.12404	-0.50335	-1.23976	0.48787	-0.00268	0.88058	0.43072	0.01371	0.94280
2.15424	-11.03707	2.13420	-0.50169	-1.24529	0.50613	-0.00271	0.98237	0.40912	0.01459	0.94562
2.20507	-11.14879	2.14415	-0.49946	-1.25239	0.52697	-0.00274	1.10864	0.38622	0.01554	0.94733
2.25683	-11.25563	2.15386	-0.49663	-1.26073	0.54952	-0.00278	1.25954	0.36283	0.01652	0.94790
2.31000	-11.35878	2.16348	-0.49316	-1.27032	0.57347	-0.00281	1.43868	0.33914	0.01757	0.94730
2.36463	-11.45906	2.17305	-0.48906	-1.28093	0.59828	-0.00284	1.64732	0.31559	0.01866	0.94550
2.42014	-11.55798	2.18252	-0.48436	-1.29185	0.62284	-0.00287	1.88068	0.29291	0.01979	0.94260
2.47709	-11.65838	2.19195	-0.47906	-1.30259	0.64695	-0.00289	2.13718	0.27121	0.02093	0.93898
2.53550	-11.76224	2.20132	-0.47324	-1.31250	0.67014	-0.00291	2.40997	0.25088	0.02201	0.93529
2.59471	-11.86970	2.21055	-0.46707	-1.32104	0.69178	-0.00293	2.68793	0.23236	0.02294	0.93223
2.65604	-11.98427	2.21982	-0.46049	-1.32803	0.71196	-0.00295	2.96801	0.21544	0.02371	0.93025
2.71887	-12.10527	2.22916	-0.45366	-1.33327	0.73034	-0.00297	3.23824	0.20040	0.02427	0.92961
2.78242	-12.23044	2.23850	-0.44672	-1.33692	0.74691	-0.00299	3.49047	0.18733	0.02463	0.93043
2.84819	-12.36171	2.24803	-0.43960	-1.33928	0.76218	-0.00301	3.72599	0.17583	0.02481	0.93277
2.91545	-12.49709	2.25772	-0.43245	-1.34046	0.77596	-0.00303	3.93924	0.16589	0.02482	0.93663
2.98329	-12.63344	2.26729	-0.42539	-1.34067	0.78816	-0.00305	4.12590	0.15752	0.02468	0.94174
3.05344	-12.77343	2.27716	-0.41833	-1.34015	0.79920	-0.00307	4.29038	0.15038	0.02444	0.94785
3.12598	-12.91608	2.28713	-0.41124	-1.33906	0.80918	-0.00309	4.43294	0.14438	0.02412	0.95470
3.19898	-13.05687	2.29705	-0.40441	-1.33760	0.81804	-0.00310	4.55010	0.13957	0.02374	0.96178
3.27439	-13.19942	2.30705	-0.39760	-1.33575	0.82605	-0.00312	4.64569	0.13572	0.02330	0.96893
3.35121	-13.34054	2.31705	-0.39100	-1.33377	0.83331	-0.00313	4.72071	0.13278	0.02283	0.97587
3.43053	-13.48220	2.32710	-0.38445	-1.33167	0.84000	-0.00314	4.77683	0.13066	0.02229	0.98293
3.51124	-13.62176	2.33717	-0.37814	-1.32960	0.84610	-0.00315	4.81478	0.12931	0.02172	0.99018
3.59324	-13.75867	2.34700	-0.37196	-1.32759	0.85172	-0.00316	4.83663	0.12868	0.02109	0.99795
3.67782	-13.89552	2.35718	-0.36593	-1.32576	0.85712	-0.00316	4.84588	0.12860	0.02043	1.00655
3.76506	-14.03031	2.36699	-0.35992	-1.32410	0.86224	-0.00317	4.84403	0.12908	0.01972	1.01639
3.85356	-14.16414	2.37736	-0.35411	-1.32272	0.86722	-0.00317	4.83318	0.12996	0.01900	1.02710
3.94477	-14.29416	2.38702	-0.34834	-1.32156	0.87199	-0.00317	4.81622	0.13124	0.01825	1.03866
4.03714	-14.42436	2.39737	-0.34269	-1.32065	0.87666	-0.00318	4.79225	0.13282	0.01752	1.05050
4.13223	-14.55152	2.40726	-0.33715	-1.31993	0.88115	-0.00318	4.76541	0.13460	0.01680	1.06247
4.23012	-14.67836	2.41719	-0.33153	-1.31938	0.88551	-0.00318	4.73372	0.13665	0.01608	1.07428
4.32900	-14.80535	2.42783	-0.32615	-1.31900	0.88979	-0.00318	4.69907	0.13879	0.01541	1.08525
4.43066	-14.92645	2.43707	-0.32076	-1.31870	0.89374	-0.00318	4.66428	0.14103	0.01475	1.09565
4.53515	-15.05290	2.44770	-0.31532	-1.31851	0.89772	-0.00317	4.62440	0.14345	0.01411	1.10541
4.64253	-15.17769	2.45811	-0.31004	-1.31836	0.90153	-0.00317	4.58478	0.14583	0.01351	1.11450
4.75059	-15.29523	2.46705	-0.30480	-1.31821	0.90490	-0.00317	4.54504	0.14828	0.01291	1.12296
4.86145	-15.42126	2.47816	-0.29952	-1.31815	0.90842	-0.00316	4.50065	0.15084	0.01234	1.13083
4.97760	-15.54435	2.48833	-0.29434	-1.31810	0.91173	-0.00316	4.45793	0.15334	0.01178	1.13835
5.09424	-15.66023	2.49705	-0.28918	-1.31803	0.91461	-0.00315	4.41509	0.15591	0.01122	1.14546
5.21376	-15.78725	2.50854	-0.28392	-1.31807	0.91774	-0.00315	4.36782	0.15858	0.01068	1.15214
5.33618	-15.90775	2.51875	-0.27895	-1.31813	0.92064	-0.00314	4.32510	0.16105	0.01016	1.15850
5.46150	-16.01902	2.52665	-0.27396	-1.31814	0.92306	-0.00313	4.28375	0.16355	0.00962	1.16489
5.58971	-16.14346	2.53771	-0.26874	-1.31826	0.92576	-0.00313	4.23721	0.16620	0.00909	1.17117
5.72082	-16.26854	2.54928	-0.26376	-1.31845	0.92852	-0.00312	4.19396	0.16866	0.00861	1.17734
5.85823	-16.37667	2.55643	-0.25894	-1.31855	0.93064	-0.00311	4.15674	0.17097	0.00809	1.18401
5.99520	-16.49119	2.56544	-0.25391	-1.31872	0.93281	-0.00310	4.11576	0.17342	0.00757	1.19071
6.13497	-16.62022	2.57809	-0.24875	-1.31903	0.93541	-0.00309	4.07242	0.17589	0.00709	1.19733
6.28141	-16.73423	2.58716	-0.24407	-1.31930	0.93763	-0.00308	4.03811	0.17799	0.00664	1.20420
6.42674	-16.83082	2.59255	-0.23957	-1.31948	0.93922	-0.00308	4.00797	0.17997	0.00616	1.21124
6.57895	-16.94759	2.60214	-0.23450	-1.31978	0.94123	-0.00307	3.97098	0.18222	0.00569	1.21855
6.73401	-17.07919	2.61548	-0.22932	-1.32025	0.94371	-0.00306	3.93264	0.18445	0.00526	1.22571
6.89180	-17.18198	2.62263	-0.22507	-1.32057	0.94551	-0.00305	3.90696	0.18612	0.00487	1.23292
7.05716	-17.27091	2.62602	-0.22083	-1.32077	0.94672	-0.00304	3.88373	0.18775	0.00442	1.24060
7.22022	-17.37592	2.63360	-0.21617	-1.32109	0.94831	-0.00303	3.85514	0.18957	0.00400	1.24790
7.39098	-17.50543	2.64650	-0.21097	-1.32162	0.95053	-0.00302	3.82167	0.19157	0.00361	1.25499
7.56430	-17.61475	2.65546	-0.20674	-1.32208	0.95241	-0.00301	3.79849	0.19306	0.00328	1.26157
7.73994	-17.68075	2.65474	-0.20358	-1.32220	0.95308	-0.00300	3.78648	0.19407	0.00292	1.26799
7.92393	-17.76457	2.65747	-0.19969	-1.32239	0.95404	-0.00299	3.76788	0.19538	0.00255	1.27419
8.11030	-17.86655	2.66440	-0.19526	-1.32274	0.95542	-0.00298	3.74465	0.19688	0.00218	1.27984
8.29876	-17.99291	2.67714	-0.19028	-1.32336	0.95746	-0.00297	3.71749	0.19854	0.00186	1.28485
8.49618	-18.07724	2.68074	-0.18707	-1.32371	0.95865	-0.00296	3.70518	0.19946	0.00159	1.28958
8.69565	-18.11239	2.67360	-0.18537	-1.32355	0.95856	-0.00296	3.70356	0.19985	0.00130	1.29431
8.90472	-18.17371	2.67170	-0.18264	-1.32356	0.95896	-0.00295	3.69391	0.20061	0.00099	1.29905
9.11577	-18.24435	2.67209	-0.17964	-1.32364	0.95957	-0.00295	3.68190	0.20145	0.00070	1.30365
9.32836	-18.35161	2.68057	-0.17518	-1.32408	0.96096	-0.00294	3.66073	0.20278	0.00039	1.30823
9.54198	-18.44434	2.68669	-0.17178	-1.32453	0.96223	-0.00293	3.64697	0.20370	0.00016	1.31265
9.76563	-18.44852	2.67392	-0.17233	-1.32410	0.96169	-0.00292	3.65685	0.20332	0.00001	1.31743
10.00000	-18.44647	2.65947	-0.17314	-1.32352	0.96096	-0.00292	3.66700	0.20287	-0.00015	1.32292

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Median stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 305 - 610 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	0.00781	2.39520	-0.27092	-2.96802	1.04545	-0.00061	10.59862	0.25768	0.02457	0.26243
PGV	13.06055	1.96424	-0.17554	-4.56955	1.22089	0.00105	27.47759	0.21610	0.00341	0.39989
PGA	7.21009	1.67077	-0.07285	-3.75739	0.58262	0.00006	12.52017	0.39777	-0.02916	0.78135
0.01000	7.11709	1.68046	-0.07133	-3.73650	0.55482	0.00004	12.41429	0.40298	-0.01364	0.74121
0.01024	7.12271	1.68078	-0.07112	-3.73723	0.55396	0.00004	12.41780	0.40313	-0.01368	0.74170
0.01048	7.13202	1.68110	-0.07091	-3.73859	0.55323	0.00004	12.42806	0.40322	-0.01372	0.74217
0.01072	7.14495	1.68141	-0.07069	-3.74058	0.55261	0.00004	12.44484	0.40325	-0.01377	0.74261
0.01097	7.16152	1.68173	-0.07046	-3.74318	0.55210	0.00005	12.46817	0.40321	-0.01382	0.74303
0.01123	7.18188	1.68205	-0.07022	-3.74643	0.55167	0.00005	12.49822	0.40312	-0.01387	0.74344
0.01150	7.20626	1.68238	-0.06998	-3.75036	0.55133	0.00005	12.53539	0.40297	-0.01393	0.74384
0.01177	7.23492	1.68273	-0.06972	-3.75501	0.55107	0.00006	12.58008	0.40276	-0.01400	0.74423
0.01205	7.26821	1.68310	-0.06944	-3.76045	0.55088	0.00006	12.63298	0.40249	-0.01407	0.74464
0.01233	7.30680	1.68349	-0.06915	-3.76678	0.55077	0.00007	12.69519	0.40214	-0.01416	0.74506
0.01262	7.35130	1.68392	-0.06884	-3.77411	0.55073	0.00007	12.76782	0.40172	-0.01425	0.74550
0.01292	7.40235	1.68438	-0.06851	-3.78254	0.55077	0.00008	12.85206	0.40121	-0.01435	0.74599
0.01322	7.46056	1.68489	-0.06815	-3.79217	0.55090	0.00009	12.94899	0.40062	-0.01446	0.74654
0.01353	7.52671	1.68545	-0.06776	-3.80313	0.55109	0.00010	13.06008	0.39994	-0.01459	0.74717
0.01385	7.60222	1.68607	-0.06733	-3.81565	0.55137	0.00011	13.18801	0.39914	-0.01474	0.74791
0.01417	7.68848	1.68676	-0.06686	-3.82996	0.55175	0.00012	13.33546	0.39823	-0.01490	0.74877
0.01451	7.78616	1.68752	-0.06635	-3.84616	0.55221	0.00013	13.50384	0.39718	-0.01508	0.74979
0.01485	7.89629	1.68836	-0.06578	-3.86442	0.55277	0.00015	13.69507	0.39601	-0.01529	0.75097
0.01520	8.01979	1.68929	-0.06515	-3.88487	0.55338	0.00017	13.91089	0.39470	-0.01551	0.75232
0.01556	8.15625	1.69031	-0.06445	-3.90744	0.55401	0.00019	14.15078	0.39328	-0.01576	0.75390
0.01592	8.30600	1.69145	-0.06366	-3.93214	0.55462	0.00021	14.41599	0.39175	-0.01604	0.75576
0.01630	8.47154	1.69272	-0.06280	-3.95939	0.55526	0.00023	14.71179	0.39009	-0.01635	0.75793
0.01668	8.65535	1.69415	-0.06185	-3.98959	0.55597	0.00025	15.04315	0.38828	-0.01671	0.76040
0.01707	8.85502	1.69575	-0.06080	-4.02233	0.55671	0.00028	15.40520	0.38637	-0.01708	0.76311
0.01748	9.06470	1.69747	-0.05964	-4.05654	0.55739	0.00030	15.78763	0.38446	-0.01749	0.76608
0.01789	9.27982	1.69922	-0.05836	-4.09132	0.55807	0.00033	16.18427	0.38257	-0.01794	0.76936
0.01831	9.49780	1.70103	-0.05696	-4.12621	0.55883	0.00035	16.59123	0.38073	-0.01842	0.77284
0.01874	9.71922	1.70291	-0.05546	-4.16137	0.55968	0.00037	17.00926	0.37894	-0.01889	0.77630
0.01918	9.94288	1.70486	-0.05384	-4.19663	0.56048	0.00039	17.43484	0.37722	-0.01936	0.77978
0.01963	10.16373	1.70693	-0.05210	-4.23117	0.56106	0.00041	17.85635	0.37565	-0.01987	0.78347
0.02009	10.38012	1.70914	-0.05028	-4.26473	0.56105	0.00043	18.26910	0.37427	-0.02039	0.78734
0.02057	10.58784	1.71136	-0.04847	-4.29656	0.55980	0.00044	18.66278	0.37312	-0.02091	0.79117
0.02105	10.78622	1.71351	-0.04674	-4.32657	0.55676	0.00046	19.03255	0.37223	-0.02138	0.79476
0.02154	10.98139	1.71585	-0.04507	-4.35600	0.55256	0.00048	19.38960	0.37152	-0.02184	0.79832
0.02205	11.15628	1.71848	-0.04338	-4.38207	0.54829	0.00050	19.70132	0.37115	-0.02230	0.80186
0.02257	11.29139	1.72130	-0.04162	-4.40140	0.54398	0.00051	19.92827	0.37130	-0.02268	0.80495
0.02310	11.39018	1.72426	-0.03977	-4.41452	0.53959	0.00051	20.08011	0.37189	-0.02302	0.80779
0.02364	11.44799	1.72713	-0.03786	-4.42045	0.53494	0.00050	20.15083	0.37293	-0.02343	0.81106
0.02420	11.45208	1.72953	-0.03592	-4.41691	0.52911	0.00048	20.11237	0.37455	-0.02384	0.81427
0.02477	11.40279	1.73182	-0.03391	-4.40434	0.52167	0.00046	19.95613	0.37685	-0.02412	0.81665
0.02535	11.30159	1.73430	-0.03175	-4.38309	0.51405	0.00043	19.69029	0.37981	-0.02431	0.81845
0.02595	11.13521	1.73680	-0.02945	-4.35088	0.50698	0.00038	19.29375	0.38353	-0.02450	0.82036
0.02656	10.93460	1.73932	-0.02714	-4.31311	0.50045	0.00033	18.83018	0.38767	-0.02474	0.82253
0.02719	10.76981	1.74261	-0.02502	-4.28210	0.49521	0.00028	18.44052	0.39144	-0.02488	0.82408
0.02783	10.66301	1.74747	-0.02318	-4.26210	0.49038	0.00024	18.15449	0.39479	-0.02478	0.82414
0.02848	10.55040	1.75328	-0.02144	-4.24188	0.48413	0.00020	17.84066	0.39850	-0.02450	0.82306
0.02915	10.38455	1.75812	-0.01955	-4.21226	0.47646	0.00016	17.42483	0.40282	-0.02425	0.82222
0.02984	10.14576	1.76113	-0.01733	-4.16943	0.46925	0.00010	16.88957	0.40775	-0.02414	0.82237
0.03054	9.84679	1.76323	-0.01477	-4.11607	0.46330	0.00004	16.25816	0.41329	-0.02413	0.82319
0.03126	9.52304	1.76567	-0.01205	-4.05862	0.45697	-0.00004	15.58530	0.41942	-0.02406	0.82356
0.03199	9.20123	1.76888	-0.00932	-4.00140	0.44894	-0.00011	14.92237	0.42596	-0.02386	0.82320
0.03275	8.87033	1.77219	-0.00664	-3.94233	0.43938	-0.00018	14.26023	0.43285	-0.02361	0.82253
0.03352	8.52809	1.77599	-0.00400	-3.88191	0.42945	-0.00025	13.59038	0.44012	-0.02334	0.82171
0.03430	8.19018	1.78073	-0.00146	-3.82329	0.41970	-0.00032	12.93462	0.44761	-0.02302	0.82058
0.03511	7.84838	1.78586	0.00103	-3.76454	0.40998	-0.00039	12.28275	0.45541	-0.02262	0.81897
0.03594	7.52423	1.79056	0.00331	-3.70851	0.39994	-0.00045	11.67731	0.46306	-0.02214	0.81689
0.03678	7.23322	1.79524	0.00537	-3.65808	0.38971	-0.00051	11.14198	0.47033	-0.02179	0.81594
0.03765	6.93187	1.80056	0.00746	-3.60677	0.37975	-0.00057	10.59863	0.47799	-0.02158	0.81608
0.03854	6.58753	1.80700	0.00993	-3.54954	0.37082	-0.00064	9.99813	0.48668	-0.02131	0.81583
0.03944	6.20584	1.81330	0.01271	-3.48610	0.36131	-0.00071	9.35724	0.49634	-0.02109	0.81569
0.04037	5.79905	1.81719	0.01528	-3.41688	0.34905	-0.00078	8.69571	0.50675	-0.02096	0.81605
0.04132	5.40033	1.81925	0.01745	-3.34803	0.33457	-0.00083	8.06249	0.51735	-0.02083	0.81636
0.04229	5.07589	1.82153	0.01912	-3.29192	0.32065	-0.00087	7.55580	0.52668	-0.02074	0.81686
0.04329	4.86018	1.82456	0.02029	-3.25463	0.31034	-0.00090	7.21870	0.53364	-0.02064	0.81708
0.04431	4.73435	1.82761	0.02106	-3.23256	0.30351	-0.00092	7.01331	0.53842	-0.02039	0.81607
0.04535	4.63441	1.82970	0.02155	-3.21444	0.29696	-0.00092	6.84266	0.54255	-0.01985	0.81311

0.04642	4.51938	1.83174	0.02198	-3.19396	0.28939	-0.00093	6.65124	0.54716	-0.01909	0.80881
0.04751	4.40347	1.83478	0.02226	-3.17408	0.28153	-0.00094	6.46108	0.55197	-0.01827	0.80405
0.04863	4.30610	1.83734	0.02209	-3.15719	0.27506	-0.00094	6.29948	0.55616	-0.01753	0.79970
0.04977	4.20754	1.83716	0.02154	-3.13860	0.27036	-0.00095	6.14418	0.55982	-0.01708	0.79717
0.05094	4.06646	1.83470	0.02102	-3.11127	0.26443	-0.00096	5.94285	0.56426	-0.01711	0.79792
0.05214	3.86775	1.83278	0.02096	-3.07410	0.25534	-0.00097	5.67393	0.57062	-0.01743	0.80078
0.05337	3.63629	1.83319	0.02145	-3.03294	0.24603	-0.00100	5.37129	0.57839	-0.01759	0.80249
0.05462	3.42613	1.83580	0.02203	-2.99718	0.23937	-0.00102	5.10429	0.58581	-0.01751	0.80249
0.05591	3.23417	1.83892	0.02257	-2.96494	0.23436	-0.00105	4.87046	0.59268	-0.01724	0.80096
0.05722	3.02655	1.84078	0.02322	-2.92909	0.22935	-0.00108	4.62993	0.59983	-0.01668	0.79726
0.05857	2.79723	1.84105	0.02405	-2.88845	0.22271	-0.00112	4.37399	0.60760	-0.01582	0.79162
0.05995	2.55871	1.84074	0.02495	-2.84597	0.21363	-0.00115	4.11382	0.61593	-0.01480	0.78515
0.06136	2.34224	1.83986	0.02539	-2.80698	0.20271	-0.00117	3.88141	0.62386	-0.01378	0.77892
0.06280	2.18374	1.83798	0.02493	-2.77727	0.19215	-0.00117	3.71044	0.62994	-0.01296	0.77398
0.06428	2.06731	1.83468	0.02376	-2.75386	0.18311	-0.00117	3.58212	0.63448	-0.01241	0.77073
0.06579	1.92726	1.83017	0.02265	-2.72544	0.17571	-0.00118	3.43984	0.63945	-0.01201	0.76857
0.06734	1.77951	1.82510	0.02136	-2.69504	0.17026	-0.00120	3.30094	0.64430	-0.01173	0.76746
0.06893	1.67796	1.81975	0.01919	-2.67239	0.16735	-0.00122	3.20641	0.64742	-0.01154	0.76712
0.07055	1.61132	1.81351	0.01639	-2.65527	0.16850	-0.00123	3.14342	0.64904	-0.01143	0.76727
0.07221	1.54931	1.80654	0.01351	-2.63866	0.17114	-0.00124	3.07946	0.65063	-0.01146	0.76845
0.07391	1.47539	1.79913	0.01078	-2.61966	0.16939	-0.00124	2.99554	0.65338	-0.01159	0.77034
0.07565	1.36401	1.79126	0.00847	-2.59374	0.16159	-0.00122	2.87525	0.65809	-0.01161	0.77154
0.07743	1.20024	1.78399	0.00691	-2.55942	0.15158	-0.00122	2.71705	0.66489	-0.01161	0.77245
0.07925	1.01541	1.77750	0.00584	-2.52244	0.14434	-0.00123	2.55574	0.67207	-0.01176	0.77409
0.08111	0.85313	1.77229	0.00461	-2.49071	0.14099	-0.00125	2.42412	0.67798	-0.01198	0.77615
0.08302	0.69509	1.76851	0.00327	-2.46065	0.13748	-0.00127	2.30017	0.68405	-0.01219	0.77793
0.08498	0.55566	1.76428	0.00147	-2.43285	0.13338	-0.00128	2.19383	0.68953	-0.01246	0.78011
0.08697	0.45465	1.75835	-0.00095	-2.40978	0.13130	-0.00130	2.12010	0.69311	-0.01281	0.78307
0.08902	0.37770	1.75245	-0.00347	-2.39069	0.12998	-0.00130	2.06072	0.69603	-0.01302	0.78529
0.09112	0.32323	1.74949	-0.00576	-2.37783	0.12792	-0.00130	2.01221	0.69887	-0.01293	0.78580
0.09326	0.28542	1.74794	-0.00806	-2.36914	0.12583	-0.00130	1.97620	0.70108	-0.01262	0.78517
0.09545	0.24331	1.74561	-0.01040	-2.35937	0.12516	-0.00130	1.94553	0.70259	-0.01222	0.78395
0.09770	0.19951	1.74347	-0.01281	-2.34984	0.12692	-0.00132	1.92142	0.70339	-0.01212	0.78467
0.10000	0.11991	1.74218	-0.01491	-2.33480	0.12697	-0.00134	1.87364	0.70599	-0.01257	0.78906
0.10235	-0.03187	1.74060	-0.01652	-2.30674	0.12172	-0.00136	1.77615	0.71251	-0.01322	0.79495
0.10476	-0.20299	1.73813	-0.01828	-2.27484	0.11548	-0.00138	1.66711	0.72021	-0.01356	0.79913
0.10723	-0.33864	1.73511	-0.02071	-2.24892	0.10985	-0.00139	1.58106	0.72640	-0.01339	0.80033
0.10975	-0.45205	1.73162	-0.02355	-2.22664	0.10283	-0.00139	1.50658	0.73195	-0.01284	0.79916
0.11233	-0.55518	1.72860	-0.02640	-2.20658	0.09631	-0.00139	1.43798	0.73738	-0.01224	0.79767
0.11498	-0.62131	1.72627	-0.02969	-2.19352	0.09348	-0.00138	1.39216	0.74090	-0.01179	0.79706
0.11768	-0.67690	1.72235	-0.03351	-2.18096	0.09054	-0.00138	1.35277	0.74370	-0.01132	0.79600
0.12045	-0.72915	1.71590	-0.03790	-2.16688	0.08504	-0.00136	1.31531	0.74618	-0.01072	0.79350
0.12328	-0.75079	1.70996	-0.04260	-2.15865	0.08307	-0.00134	1.29848	0.74661	-0.01015	0.79069
0.12619	-0.73469	1.70602	-0.04737	-2.15876	0.08975	-0.00134	1.31037	0.74397	-0.00995	0.79019
0.12916	-0.67598	1.70390	-0.05226	-2.16816	0.10482	-0.00136	1.35448	0.73787	-0.01018	0.79245
0.13219	-0.60147	1.70374	-0.05673	-2.18235	0.12434	-0.00139	1.41428	0.73034	-0.01056	0.79588
0.13531	-0.57945	1.70413	-0.06002	-2.18810	0.13869	-0.00142	1.44313	0.72603	-0.01081	0.79842
0.13849	-0.64696	1.70347	-0.06212	-2.17718	0.14067	-0.00144	1.41326	0.72750	-0.01084	0.79923
0.14175	-0.77419	1.70166	-0.06381	-2.15452	0.13232	-0.00144	1.34295	0.73327	-0.01064	0.79809
0.14508	-0.93074	1.69784	-0.06573	-2.12473	0.11830	-0.00144	1.25355	0.74139	-0.01009	0.79461
0.14850	-1.09061	1.69307	-0.06791	-2.09366	0.10691	-0.00144	1.16567	0.74967	-0.00925	0.78880
0.15199	-1.23192	1.68929	-0.07017	-2.06740	0.10484	-0.00146	1.09453	0.75617	-0.00804	0.77996
0.15557	-1.35204	1.68534	-0.07285	-2.04547	0.10724	-0.00149	1.03848	0.76087	-0.00655	0.76902
0.15923	-1.45341	1.68048	-0.07624	-2.02649	0.10792	-0.00149	0.99273	0.76443	-0.00519	0.75926
0.16298	-1.54131	1.67459	-0.08021	-2.00867	0.10648	-0.00149	0.95566	0.76705	-0.00435	0.75328
0.16681	-1.59021	1.66756	-0.08491	-1.99568	0.10576	-0.00149	0.94057	0.76676	-0.00411	0.75142
0.17074	-1.59198	1.66193	-0.09000	-1.99111	0.10636	-0.00149	0.94938	0.76361	-0.00418	0.75173
0.17475	-1.60175	1.65836	-0.09486	-1.98636	0.10419	-0.00148	0.95278	0.76183	-0.00413	0.75125
0.17887	-1.66178	1.65420	-0.09929	-1.97213	0.09784	-0.00147	0.93167	0.76343	-0.00380	0.74876
0.18307	-1.74029	1.64830	-0.10364	-1.95345	0.09332	-0.00147	0.90572	0.76519	-0.00326	0.74515
0.18738	-1.79658	1.64144	-0.10855	-1.93861	0.09315	-0.00148	0.89183	0.76474	-0.00265	0.74161
0.19179	-1.83384	1.63512	-0.11387	-1.92834	0.09332	-0.00147	0.88354	0.76356	-0.00206	0.73899
0.19631	-1.86641	1.63004	-0.11897	-1.92036	0.09347	-0.00145	0.87553	0.76260	-0.00151	0.73722
0.20092	-1.90734	1.62572	-0.12357	-1.91144	0.09258	-0.00144	0.86471	0.76224	-0.00088	0.73514
0.20565	-1.97608	1.62097	-0.12761	-1.89687	0.08752	-0.00142	0.84181	0.76379	-0.00032	0.73339
0.21049	-2.08586	1.61459	-0.13121	-1.87350	0.07985	-0.00141	0.80006	0.76813	-0.00005	0.73328
0.21544	-2.19960	1.60729	-0.13501	-1.84914	0.07628	-0.00141	0.75631	0.77260	0.00006	0.73415
0.22051	-2.27538	1.60092	-0.13949	-1.83274	0.08055	-0.00142	0.73059	0.77393	0.00011	0.73566
0.22570	-2.31117	1.59647	-0.14452	-1.82507	0.09213	-0.00144	0.72564	0.77160	0.00004	0.73818
0.23101	-2.33493	1.59317	-0.14978	-1.82032	0.10711	-0.00148	0.72951	0.76777	0.00005	0.74031
0.23645	-2.38067	1.58965	-0.15498	-1.81111	0.11874	-0.00151	0.72445	0.76569	0.00037	0.74029
0.24201	-2.45523	1.58536	-0.15987	-1.79573	0.12367	-0.00154	0.70455	0.76657	0.00081	0.73961
0.24771	-2.52367	1.58176	-0.16453	-1.78206	0.12738	-0.00156	0.68704	0.76732	0.00104	0.74029
0.25354	-2.55268	1.58066	-0.16913	-1.77807	0.13820	-0.00158	0.68943	0.76442	0.00095	0.74275
0.25950	-2.54642	1.58177	-0.17374	-1.78275	0.15571	-0.00161	0.70998	0.75822	0.00057	0.74674
0.26561	-2.53053	1.58371	-0.17831	-1.78975	0.17232	-0.00164	0.73605	0.75135	0.00007	0.75130
0.27186	-2.54064	1.58642	-0.18257	-1.79222	0.18357	-0.00166	0.75208	0.74673	-0.00024	0.75475
0.27826	-2.60065	1.59047	-0.18634	-1.78653	0.18910	-0.00170	0.74771	0.74601	-0.00013	0.75573
0.28480	-2.69572	1.59488	-0.18999	-1.77483	0.19206	-0.00174	0.72898	0.74786	0.00031	0.75499
0.29150	-2.78690	1.59873	-0.19415	-1.76350	0.19799	-0.00179	0.71221	0.74921	0.00079	0.75439
0.29836	-2.83041	1.60231	-0.19921	-1.76107	0.21028	-0.00183	0.71540	0.74674	0.00122	0.75425

0.30539	-2.81850	1.60614	-0.20494	-1.76963	0.22620	-0.00185	0.74202	0.74007	0.00173	0.75323
0.31257	-2.77658	1.61040	-0.21082	-1.78452	0.23999	-0.00184	0.78262	0.73143	0.00235	0.75105
0.31993	-2.73136	1.61574	-0.21653	-1.80144	0.24954	-0.00182	0.82705	0.72282	0.00310	0.74792
0.32745	-2.71543	1.62196	-0.22178	-1.81420	0.25573	-0.00180	0.86093	0.71621	0.00393	0.74415
0.33517	-2.76442	1.62643	-0.22644	-1.81326	0.25709	-0.00180	0.86516	0.71377	0.00460	0.74103
0.34304	-2.88042	1.62643	-0.23076	-1.79496	0.25334	-0.00182	0.83636	0.71570	0.00481	0.74028
0.35112	-3.02251	1.62210	-0.23533	-1.76674	0.24670	-0.00185	0.79422	0.71937	0.00447	0.74286
0.35938	-3.14194	1.61670	-0.24034	-1.74114	0.23955	-0.00187	0.76205	0.72173	0.00386	0.74756
0.36784	-3.23778	1.61329	-0.24538	-1.72188	0.23183	-0.00187	0.74047	0.72289	0.00348	0.75110
0.37649	-3.33118	1.61224	-0.25019	-1.70602	0.22346	-0.00186	0.71983	0.72425	0.00370	0.75066
0.38536	-3.41011	1.61281	-0.25536	-1.69565	0.21931	-0.00184	0.70714	0.72398	0.00445	0.74666
0.39442	-3.44593	1.61429	-0.26157	-1.69588	0.22623	-0.00184	0.71681	0.71893	0.00543	0.74101
0.40370	-3.44296	1.61559	-0.26862	-1.70472	0.24499	-0.00185	0.74737	0.70938	0.00633	0.73579
0.41321	-3.43414	1.61571	-0.27591	-1.71409	0.26743	-0.00186	0.78250	0.69881	0.00696	0.73226
0.42292	-3.44728	1.61483	-0.28296	-1.71788	0.28511	-0.00187	0.80815	0.69010	0.00721	0.73121
0.43288	-3.48195	1.61462	-0.28952	-1.71715	0.29609	-0.00187	0.82568	0.68337	0.00700	0.73337
0.44307	-3.52717	1.61622	-0.29549	-1.71491	0.30279	-0.00188	0.84148	0.67779	0.00648	0.73788
0.45349	-3.58058	1.61975	-0.30089	-1.71192	0.30768	-0.00189	0.85597	0.67321	0.00612	0.74193
0.46417	-3.65148	1.62506	-0.30566	-1.70677	0.31109	-0.00191	0.86155	0.67057	0.00635	0.74275
0.47508	-3.74224	1.63151	-0.30993	-1.69879	0.31310	-0.00193	0.85435	0.67018	0.00709	0.74070
0.48626	-3.84288	1.63825	-0.31415	-1.68924	0.31555	-0.00195	0.83839	0.67119	0.00786	0.73875
0.49771	-3.94637	1.64531	-0.31862	-1.67990	0.32098	-0.00197	0.81729	0.67293	0.00841	0.73837
0.50942	-4.04832	1.65292	-0.32349	-1.67212	0.33123	-0.00200	0.79512	0.67459	0.00881	0.73887
0.52140	-4.14626	1.66027	-0.32885	-1.66542	0.34542	-0.00205	0.77585	0.67536	0.00916	0.73954
0.53367	-4.24301	1.66600	-0.33455	-1.65763	0.35981	-0.00211	0.75942	0.67510	0.00931	0.74141
0.54624	-4.33729	1.66937	-0.34033	-1.64811	0.37126	-0.00216	0.74644	0.67376	0.00889	0.74702
0.55910	-4.42368	1.67121	-0.34601	-1.63868	0.37794	-0.00219	0.73969	0.67115	0.00785	0.75698
0.57225	-4.50560	1.67265	-0.35145	-1.62984	0.37831	-0.00220	0.73730	0.66780	0.00661	0.76863
0.58569	-4.59368	1.67425	-0.35664	-1.62003	0.37196	-0.00218	0.73313	0.66486	0.00574	0.77814
0.59948	-4.69439	1.67660	-0.36164	-1.60850	0.36201	-0.00216	0.72390	0.66293	0.00549	0.78356
0.61357	-4.80431	1.68020	-0.36633	-1.59627	0.35321	-0.00214	0.71173	0.66173	0.00574	0.78542
0.62802	-4.91700	1.68509	-0.37070	-1.58470	0.34888	-0.00214	0.70083	0.66045	0.00623	0.78542
0.64280	-5.02559	1.69078	-0.37497	-1.57463	0.35082	-0.00216	0.69510	0.65819	0.00681	0.78428
0.65794	-5.12010	1.69646	-0.37949	-1.56705	0.35902	-0.00220	0.70000	0.65384	0.00734	0.78319
0.67340	-5.19721	1.70170	-0.38431	-1.56212	0.37127	-0.00224	0.71633	0.64738	0.00767	0.78366
0.68927	-5.26968	1.70647	-0.38921	-1.55751	0.38447	-0.00228	0.73617	0.64033	0.00782	0.78575
0.70547	-5.35464	1.71066	-0.39392	-1.54981	0.39650	-0.00233	0.74792	0.63463	0.00797	0.78846
0.72207	-5.46870	1.71445	-0.39816	-1.53617	0.40768	-0.00239	0.74120	0.63181	0.00833	0.79037
0.73910	-5.61736	1.71830	-0.40177	-1.51608	0.41900	-0.00246	0.71246	0.63259	0.00898	0.79073
0.75649	-5.79038	1.72281	-0.40468	-1.49215	0.43086	-0.00255	0.66809	0.63643	0.00969	0.79044
0.77429	-5.97363	1.72851	-0.40707	-1.46765	0.44250	-0.00264	0.61730	0.64234	0.01018	0.79055
0.79246	-6.14996	1.73561	-0.40929	-1.44609	0.45294	-0.00272	0.57055	0.64865	0.01035	0.79122
0.81116	-6.30381	1.74395	-0.41182	-1.43054	0.46197	-0.00277	0.53744	0.65293	0.01028	0.79219
0.83022	-6.42310	1.75268	-0.41508	-1.42238	0.46867	-0.00280	0.52401	0.65307	0.01010	0.79315
0.84976	-6.50885	1.76095	-0.41923	-1.42048	0.47179	-0.00279	0.53013	0.64849	0.00982	0.79441
0.86972	-6.57015	1.76813	-0.42409	-1.42239	0.47001	-0.00276	0.55174	0.64008	0.00947	0.79605
0.89023	-6.62053	1.77416	-0.42938	-1.42551	0.46428	-0.00271	0.58384	0.62914	0.00916	0.79751
0.91116	-6.67467	1.77924	-0.43469	-1.42716	0.45638	-0.00266	0.61917	0.61745	0.00903	0.79807
0.93257	-6.74148	1.78400	-0.43980	-1.42624	0.44791	-0.00260	0.65221	0.60629	0.00923	0.79706
0.95456	-6.82169	1.78927	-0.44455	-1.42353	0.44054	-0.00256	0.68083	0.59619	0.00972	0.79480
0.97704	-6.91064	1.79570	-0.44884	-1.42059	0.43490	-0.00252	0.70498	0.58735	0.01033	0.79254
1.00000	-7.00341	1.80367	-0.45268	-1.41877	0.43124	-0.00248	0.72571	0.57968	0.01095	0.79085
1.02354	-7.09866	1.81320	-0.45612	-1.41835	0.43069	-0.00245	0.74346	0.57302	0.01162	0.78929
1.04767	-7.19410	1.82387	-0.45911	-1.41933	0.43501	-0.00243	0.76029	0.56682	0.01229	0.78802
1.07227	-7.28697	1.83523	-0.46165	-1.42172	0.44482	-0.00243	0.77841	0.56062	0.01282	0.78790
1.09745	-7.38063	1.84707	-0.46376	-1.42456	0.45843	-0.00245	0.79566	0.55475	0.01314	0.78941
1.12334	-7.48485	1.85923	-0.46551	-1.42568	0.47231	-0.00247	0.80476	0.55026	0.01331	0.79247
1.14982	-7.60863	1.87133	-0.46695	-1.42286	0.48342	-0.00250	0.79933	0.54789	0.01344	0.79647
1.17675	-7.75589	1.88301	-0.46817	-1.41498	0.49064	-0.00253	0.77843	0.54754	0.01360	0.80067
1.20453	-7.92674	1.89425	-0.46930	-1.40218	0.49470	-0.00257	0.74678	0.54837	0.01379	0.80500
1.23289	-8.11163	1.90496	-0.47035	-1.38623	0.49716	-0.00262	0.71314	0.54902	0.01390	0.80967
1.26183	-8.30173	1.91539	-0.47126	-1.36936	0.49991	-0.00267	0.68463	0.54826	0.01397	0.81437
1.29149	-8.49324	1.92590	-0.47200	-1.35292	0.50347	-0.00273	0.66348	0.54569	0.01408	0.81849
1.32188	-8.68232	1.93666	-0.47258	-1.33790	0.50745	-0.00279	0.65017	0.54125	0.01427	0.82185
1.35300	-8.86450	1.94760	-0.47310	-1.32508	0.51136	-0.00284	0.64604	0.53475	0.01450	0.82467
1.38485	-9.03466	1.95849	-0.47363	-1.31517	0.51567	-0.00288	0.65423	0.52564	0.01473	0.82720
1.41743	-9.19074	1.96915	-0.47418	-1.30836	0.52124	-0.00291	0.67658	0.51376	0.01498	0.82947
1.45075	-9.33260	1.97955	-0.47466	-1.30466	0.52930	-0.00294	0.71414	0.49925	0.01526	0.83135
1.48500	-9.46342	1.98977	-0.47499	-1.30347	0.54014	-0.00297	0.76717	0.48250	0.01559	0.83285
1.51999	-9.58489	1.99985	-0.47511	-1.30409	0.55297	-0.00300	0.83551	0.46424	0.01596	0.83411
1.55569	-9.69889	2.00990	-0.47501	-1.30602	0.56724	-0.00302	0.91920	0.44507	0.01638	0.83529
1.59236	-9.80734	2.02013	-0.47470	-1.30895	0.58277	-0.00305	1.01876	0.42545	0.01686	0.83645
1.62973	-9.90958	2.03063	-0.47420	-1.31292	0.59939	-0.00307	1.13355	0.40600	0.01737	0.83790
1.66806	-10.00564	2.04161	-0.47346	-1.31818	0.61698	-0.00309	1.26421	0.38703	0.01780	0.84034
1.70736	-10.09580	2.05318	-0.47251	-1.32473	0.63492	-0.00311	1.40808	0.36911	0.01807	0.84443
1.74764	-10.18203	2.06541	-0.47137	-1.33216	0.65234	-0.00312	1.55894	0.35286	0.01813	0.85043
1.78859	-10.26485	2.07815	-0.47015	-1.34007	0.66879	-0.00313	1.70969	0.33869	0.01797	0.85838
1.83083	-10.34610	2.09148	-0.46890	-1.34829	0.68444	-0.00313	1.85778	0.32644	0.01759	0.86844
1.87371	-10.42562	2.10509	-0.46773	-1.35632	0.69874	-0.00312	1.99594	0.31631	0.01701	0.88024
1.91791	-10.50535	2.11910	-0.46669	-1.36405	0.71171	-0.00311	2.12304	0.30799	0.01628	0.89345
1.96309	-10.58499	2.13335	-0.46581	-1.37136	0.72330	-0.00310	2.23615	0.30138	0.01550	0.90726

2.00924	-10.66440	2.14779	-0.46511	-1.37837	0.73374	-0.00309	2.33520	0.29623	0.01472	0.92097
2.05634	-10.74333	2.16241	-0.46456	-1.38519	0.74321	-0.00308	2.42126	0.29228	0.01400	0.93395
2.10482	-10.82324	2.17730	-0.46414	-1.39179	0.75163	-0.00306	2.49480	0.28936	0.01337	0.94589
2.15424	-10.90460	2.19228	-0.46381	-1.39788	0.75862	-0.00304	2.55439	0.28736	0.01283	0.95641
2.20507	-10.99018	2.20746	-0.46352	-1.40310	0.76383	-0.00302	2.59849	0.28619	0.01237	0.96548
2.25683	-11.08127	2.22260	-0.46324	-1.40697	0.76691	-0.00299	2.62465	0.28580	0.01200	0.97307
2.31000	-11.18141	2.23779	-0.46293	-1.40896	0.76738	-0.00297	2.63049	0.28615	0.01171	0.97928
2.36463	-11.29102	2.25295	-0.46259	-1.40900	0.76552	-0.00294	2.61776	0.28706	0.01152	0.98410
2.42014	-11.40833	2.26782	-0.46223	-1.40727	0.76178	-0.00290	2.59056	0.28826	0.01144	0.98754
2.47709	-11.53224	2.28244	-0.46182	-1.40425	0.75693	-0.00287	2.55584	0.28941	0.01148	0.98975
2.53550	-11.65999	2.29669	-0.46137	-1.40054	0.75168	-0.00284	2.52109	0.29012	0.01166	0.99101
2.59471	-11.78782	2.31039	-0.46085	-1.39668	0.74670	-0.00281	2.49333	0.29010	0.01195	0.99156
2.65604	-11.91820	2.32383	-0.46016	-1.39279	0.74205	-0.00278	2.47496	0.28919	0.01237	0.99161
2.71887	-12.04742	2.33676	-0.45925	-1.38937	0.73828	-0.00275	2.47106	0.28715	0.01286	0.99164
2.78242	-12.17361	2.34911	-0.45804	-1.38667	0.73583	-0.00272	2.48312	0.28398	0.01341	0.99190
2.84819	-12.29933	2.36122	-0.45641	-1.38492	0.73566	-0.00269	2.51208	0.27965	0.01402	0.99267
2.91545	-12.42401	2.37302	-0.45435	-1.38391	0.73792	-0.00268	2.55416	0.27446	0.01466	0.99420
2.98329	-12.54879	2.38445	-0.45178	-1.38329	0.74281	-0.00267	2.60490	0.26875	0.01532	0.99637
3.05344	-12.67789	2.39578	-0.44874	-1.38249	0.74957	-0.00267	2.66068	0.26264	0.01599	0.99943
3.12598	-12.81468	2.40701	-0.44514	-1.38093	0.75761	-0.00268	2.71832	0.25627	0.01667	1.00315
3.19898	-12.95208	2.41772	-0.44121	-1.37900	0.76651	-0.00270	2.78098	0.24966	0.01730	1.00739
3.27439	-13.09313	2.42821	-0.43680	-1.37696	0.77686	-0.00272	2.85476	0.24250	0.01793	1.01164
3.35121	-13.23068	2.43827	-0.43212	-1.37571	0.78897	-0.00275	2.94573	0.23480	0.01853	1.01573
3.43053	-13.36730	2.44820	-0.42696	-1.37545	0.80333	-0.00279	3.05891	0.22645	0.01916	1.01938
3.51124	-13.49778	2.45773	-0.42153	-1.37641	0.81915	-0.00283	3.19545	0.21764	0.01978	1.02290
3.59324	-13.62258	2.46685	-0.41570	-1.37877	0.83687	-0.00287	3.36013	0.20837	0.02038	1.02626
3.67782	-13.74109	2.47576	-0.40960	-1.38255	0.85591	-0.00291	3.55397	0.19872	0.02093	1.03030
3.76506	-13.85606	2.48429	-0.40297	-1.38755	0.87649	-0.00295	3.77779	0.18891	0.02144	1.03481
3.85356	-13.96708	2.49280	-0.39625	-1.39305	0.89666	-0.00299	4.01283	0.17956	0.02188	1.04029
3.94477	-14.08149	2.50091	-0.38916	-1.39809	0.91616	-0.00303	4.24113	0.17129	0.02227	1.04598
4.03714	-14.19785	2.50927	-0.38202	-1.40257	0.93415	-0.00307	4.45606	0.16403	0.02256	1.05215
4.13223	-14.31986	2.51734	-0.37485	-1.40568	0.94996	-0.00310	4.63524	0.15833	0.02271	1.05875
4.23012	-14.44979	2.52548	-0.36748	-1.40744	0.96392	-0.00313	4.77649	0.15409	0.02273	1.06542
4.32900	-14.58144	2.53396	-0.36040	-1.40828	0.97560	-0.00315	4.88284	0.15103	0.02260	1.07218
4.43066	-14.71679	2.54163	-0.35330	-1.40788	0.98537	-0.00317	4.94610	0.14946	0.02231	1.07872
4.53515	-14.85734	2.55014	-0.34622	-1.40680	0.99357	-0.00319	4.98147	0.14875	0.02187	1.08545
4.64253	-14.99815	2.55846	-0.33940	-1.40507	0.99996	-0.00320	4.99115	0.14881	0.02131	1.09229
4.75059	-15.13810	2.56576	-0.33265	-1.40235	1.00432	-0.00321	4.97078	0.14982	0.02061	1.09902
4.86145	-15.28281	2.57447	-0.32597	-1.39932	1.00748	-0.00322	4.93660	0.15117	0.01983	1.10593
4.97760	-15.42604	2.58252	-0.31946	-1.39602	1.00971	-0.00322	4.89231	0.15287	0.01900	1.11293
5.09424	-15.56435	2.58945	-0.31303	-1.39241	1.01080	-0.00322	4.83579	0.15503	0.01812	1.11988
5.21376	-15.70739	2.59833	-0.30667	-1.38900	1.01149	-0.00322	4.77566	0.15729	0.01722	1.12693
5.33618	-15.84323	2.60627	-0.30069	-1.38582	1.01187	-0.00322	4.71815	0.15951	0.01636	1.13376
5.46150	-15.97179	2.61242	-0.29476	-1.38266	1.01163	-0.00322	4.65803	0.16195	0.01549	1.14064
5.58971	-16.10774	2.62095	-0.28872	-1.37971	1.01133	-0.00321	4.59460	0.16450	0.01461	1.14770
5.72082	-16.24145	2.62995	-0.28300	-1.37715	1.01124	-0.00321	4.53609	0.16688	0.01381	1.15470
5.85823	-16.36221	2.63552	-0.27748	-1.37467	1.01088	-0.00320	4.48074	0.16931	0.01301	1.16203
5.99520	-16.48567	2.64248	-0.27186	-1.37235	1.01043	-0.00320	4.42276	0.17184	0.01222	1.16951
6.13497	-16.61876	2.65243	-0.26619	-1.37031	1.01030	-0.00319	4.36470	0.17431	0.01147	1.17705
6.28141	-16.73894	2.65961	-0.26101	-1.36856	1.01025	-0.00318	4.31623	0.17651	0.01079	1.18467
6.42674	-16.84312	2.66371	-0.25613	-1.36697	1.00990	-0.00317	4.27243	0.17863	0.01012	1.19232
6.57895	-16.96344	2.67124	-0.25072	-1.36546	1.00970	-0.00316	4.22239	0.18098	0.00943	1.20039
6.73401	-17.09540	2.68205	-0.24519	-1.36413	1.00987	-0.00315	4.17169	0.18328	0.00879	1.20839
6.89180	-17.20159	2.68779	-0.24064	-1.36312	1.00997	-0.00314	4.13594	0.18508	0.00824	1.21620
7.05716	-17.29486	2.69021	-0.23625	-1.36224	1.00972	-0.00314	4.10430	0.18683	0.00766	1.22438
7.22022	-17.40072	2.69620	-0.23147	-1.36144	1.00968	-0.00313	4.06771	0.18872	0.00709	1.23227
7.39098	-17.52851	2.70686	-0.22606	-1.36068	1.01002	-0.00311	4.02499	0.19080	0.00654	1.24006
7.56430	-17.63782	2.71431	-0.22161	-1.36020	1.01046	-0.00310	3.99484	0.19237	0.00608	1.24717
7.73994	-17.70612	2.71327	-0.21849	-1.36001	1.01040	-0.00310	3.98156	0.19339	0.00566	1.25382
7.92393	-17.78965	2.71513	-0.21468	-1.35986	1.01042	-0.00309	3.96170	0.19468	0.00520	1.26032
8.11030	-17.88942	2.72069	-0.21029	-1.35971	1.01068	-0.00308	3.93598	0.19616	0.00475	1.26635
8.29876	-18.01252	2.73153	-0.20517	-1.35952	1.01133	-0.00306	3.90293	0.19786	0.00432	1.27185
8.49618	-18.09622	2.73441	-0.20193	-1.35964	1.01180	-0.00305	3.89008	0.19877	0.00399	1.27682
8.69565	-18.13125	2.72764	-0.20056	-1.36014	1.01175	-0.00305	3.89670	0.19897	0.00370	1.28149
8.90472	-18.18998	2.72546	-0.19815	-1.36062	1.01194	-0.00304	3.89390	0.19954	0.00338	1.28628
9.11577	-18.25701	2.72530	-0.19543	-1.36111	1.01226	-0.00303	3.88809	0.20021	0.00305	1.29099
9.32836	-18.35927	2.73238	-0.19109	-1.36144	1.01288	-0.00302	3.86761	0.20144	0.00269	1.29584
9.54198	-18.44892	2.73755	-0.18770	-1.36182	1.01357	-0.00301	3.85457	0.20231	0.00240	1.30048
9.76563	-18.45212	2.72587	-0.18868	-1.36277	1.01376	-0.00300	3.87973	0.20162	0.00229	1.30506
10.00000	-18.44791	2.71267	-0.19005	-1.36390	1.01397	-0.00300	3.90877	0.20081	0.00217	1.31031

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Median stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 610 - 1220 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-0.41715	2.50596	-0.23240	-3.00902	1.07168	-0.00052	10.92028	0.25204	0.00556	0.36357
PGV	14.05841	1.98249	-0.16499	-4.78722	1.24405	0.00145	30.61761	0.20243	-0.01519	0.50727
PGA	7.74703	1.66468	-0.08649	-3.85659	0.55697	0.00032	13.18503	0.39230	-0.03125	0.80830
0.01000	7.65558	1.67433	-0.08486	-3.83573	0.52686	0.00031	13.08588	0.39743	-0.02501	0.81225
0.01024	7.65726	1.67463	-0.08466	-3.83572	0.52569	0.00031	13.08122	0.39767	-0.02505	0.81274
0.01048	7.66288	1.67493	-0.08446	-3.83639	0.52466	0.00031	13.08389	0.39784	-0.02509	0.81321
0.01072	7.67233	1.67522	-0.08425	-3.83772	0.52375	0.00031	13.09355	0.39795	-0.02514	0.81367
0.01097	7.68559	1.67551	-0.08403	-3.83970	0.52294	0.00031	13.11015	0.39800	-0.02519	0.81411
0.01123	7.70272	1.67581	-0.08380	-3.84234	0.52221	0.00031	13.13373	0.39799	-0.02524	0.81454
0.01150	7.72389	1.67611	-0.08357	-3.84566	0.52156	0.00032	13.16450	0.39792	-0.02531	0.81497
0.01177	7.74927	1.67642	-0.08331	-3.84969	0.52097	0.00032	13.20277	0.39779	-0.02538	0.81541
0.01205	7.77915	1.67675	-0.08305	-3.85448	0.52044	0.00033	13.24898	0.39761	-0.02546	0.81585
0.01233	7.81404	1.67709	-0.08277	-3.86011	0.51996	0.00033	13.30404	0.39736	-0.02555	0.81632
0.01262	7.85462	1.67747	-0.08246	-3.86669	0.51954	0.00034	13.36915	0.39704	-0.02564	0.81682
0.01292	7.90154	1.67787	-0.08214	-3.87434	0.51916	0.00035	13.44552	0.39664	-0.02575	0.81738
0.01322	7.95544	1.67830	-0.08178	-3.88314	0.51882	0.00035	13.53429	0.39617	-0.02587	0.81800
0.01353	8.01711	1.67878	-0.08140	-3.89324	0.51853	0.00036	13.63690	0.39561	-0.02601	0.81871
0.01385	8.08722	1.67930	-0.08098	-3.90473	0.51828	0.00038	13.75458	0.39495	-0.02616	0.81951
0.01417	8.16616	1.67987	-0.08052	-3.91767	0.51805	0.00039	13.88815	0.39421	-0.02633	0.82043
0.01451	8.25503	1.68050	-0.08002	-3.93224	0.51783	0.00040	14.03967	0.39336	-0.02652	0.82150
0.01485	8.35531	1.68120	-0.07946	-3.94867	0.51761	0.00042	14.21192	0.39241	-0.02673	0.82275
0.01520	8.46891	1.68199	-0.07885	-3.96728	0.51736	0.00043	14.40835	0.39133	-0.02696	0.82419
0.01556	8.59602	1.68288	-0.07817	-3.98809	0.51707	0.00045	14.62926	0.39014	-0.02722	0.82586
0.01592	8.73447	1.68384	-0.07741	-4.01068	0.51668	0.00047	14.87088	0.38888	-0.02750	0.82782
0.01630	8.88337	1.68487	-0.07656	-4.03484	0.51613	0.00050	15.13228	0.38756	-0.02783	0.83010
0.01668	9.04348	1.68597	-0.07561	-4.06071	0.51552	0.00052	15.41547	0.38618	-0.02820	0.83276
0.01707	9.21884	1.68719	-0.07456	-4.08896	0.51491	0.00054	15.72838	0.38469	-0.02862	0.83581
0.01748	9.41005	1.68852	-0.07341	-4.11970	0.51425	0.00057	16.07254	0.38310	-0.02908	0.83918
0.01789	9.61003	1.68995	-0.07217	-4.15169	0.51364	0.00060	16.43498	0.38150	-0.02956	0.84276
0.01831	9.81255	1.69142	-0.07084	-4.18381	0.51309	0.00062	16.80450	0.37995	-0.03005	0.84639
0.01874	10.01976	1.69296	-0.06942	-4.21644	0.51232	0.00064	17.18392	0.37846	-0.03051	0.84991
0.01918	10.22587	1.69466	-0.06791	-4.24862	0.51104	0.00067	17.56038	0.37713	-0.03095	0.85332
0.01963	10.41963	1.69651	-0.06629	-4.27839	0.50913	0.00069	17.91163	0.37609	-0.03139	0.85672
0.02009	10.60440	1.69855	-0.06457	-4.30632	0.50691	0.00070	18.24561	0.37528	-0.03184	0.86023
0.02057	10.78657	1.70084	-0.06281	-4.33370	0.50474	0.00071	18.57513	0.37459	-0.03232	0.86398
0.02105	10.96220	1.70321	-0.06105	-4.35985	0.50230	0.00073	18.89276	0.37402	-0.03284	0.86798
0.02154	11.12599	1.70557	-0.05930	-4.38375	0.49916	0.00073	19.18733	0.37365	-0.03336	0.87197
0.02205	11.27357	1.70793	-0.05753	-4.40471	0.49543	0.00074	19.44914	0.37353	-0.03386	0.87578
0.02257	11.38715	1.71021	-0.05562	-4.41972	0.49126	0.00074	19.64204	0.37382	-0.03438	0.87967
0.02310	11.45699	1.71243	-0.05356	-4.42720	0.48651	0.00073	19.74199	0.37466	-0.03491	0.88372
0.02364	11.47960	1.71466	-0.05142	-4.42666	0.48064	0.00072	19.73639	0.37613	-0.03539	0.88744
0.02420	11.45950	1.71708	-0.04933	-4.41911	0.47306	0.00070	19.63096	0.37823	-0.03574	0.89034
0.02477	11.42434	1.71966	-0.04739	-4.40923	0.46466	0.00069	19.48941	0.38057	-0.03598	0.89261
0.02535	11.38740	1.72187	-0.04556	-4.39883	0.45646	0.00067	19.35070	0.38284	-0.03621	0.89480
0.02595	11.32645	1.72359	-0.04373	-4.38402	0.44909	0.00065	19.17321	0.38525	-0.03642	0.89699
0.02656	11.21927	1.72573	-0.04178	-4.36167	0.44316	0.00061	18.90774	0.38820	-0.03656	0.89866
0.02719	11.06010	1.72861	-0.03965	-4.33103	0.43866	0.00056	18.54347	0.39177	-0.03658	0.89948
0.02783	10.85258	1.73221	-0.03739	-4.29288	0.43454	0.00050	18.08094	0.39605	-0.03652	0.89971
0.02848	10.60450	1.73659	-0.03502	-4.24853	0.42960	0.00042	17.53141	0.40108	-0.03646	0.89994
0.02915	10.33138	1.74139	-0.03258	-4.20025	0.42332	0.00035	16.93256	0.40666	-0.03638	0.90016
0.02984	10.06091	1.74616	-0.03027	-4.15268	0.41618	0.00028	16.34017	0.41237	-0.03615	0.89947
0.03054	9.82669	1.75056	-0.02826	-4.11156	0.40927	0.00023	15.81730	0.41765	-0.03576	0.89786
0.03126	9.61369	1.75425	-0.02640	-4.07386	0.40371	0.00018	15.34512	0.42254	-0.03543	0.89677
0.03199	9.37250	1.75747	-0.02432	-4.03084	0.40037	0.00012	14.84718	0.42764	-0.03520	0.89636
0.03275	9.09577	1.76070	-0.02197	-3.98160	0.39784	0.00004	14.30351	0.43323	-0.03483	0.89498
0.03352	8.80726	1.76394	-0.01961	-3.93045	0.39376	-0.00003	13.74358	0.43918	-0.03434	0.89268
0.03430	8.50675	1.76678	-0.01731	-3.87685	0.38687	-0.00010	13.16874	0.44556	-0.03385	0.89048
0.03511	8.20969	1.76886	-0.01525	-3.82311	0.37668	-0.00016	12.60827	0.45213	-0.03341	0.88866
0.03594	7.92343	1.77097	-0.01342	-3.77124	0.36404	-0.00020	12.06590	0.45890	-0.03311	0.88781
0.03678	7.63153	1.77411	-0.01157	-3.71934	0.35041	-0.00025	11.51136	0.46622	-0.03296	0.88806
0.03765	7.33388	1.77852	-0.00966	-3.66759	0.33590	-0.00029	10.95181	0.47404	-0.03284	0.88849
0.03854	7.03409	1.78410	-0.00774	-3.61665	0.32023	-0.00034	10.39425	0.48230	-0.03257	0.88785
0.03944	6.73935	1.78947	-0.00593	-3.56679	0.30472	-0.00038	9.86118	0.49054	-0.03216	0.88620
0.04037	6.43074	1.79336	-0.00419	-3.51368	0.29081	-0.00042	9.33630	0.49878	-0.03178	0.88472
0.04132	6.09768	1.79652	-0.00240	-3.45570	0.27725	-0.00047	8.79759	0.50755	-0.03158	0.88454
0.04229	5.77714	1.80051	-0.00053	-3.40046	0.26447	-0.00052	8.28896	0.51646	-0.03144	0.88505
0.04329	5.46870	1.80470	0.00143	-3.34782	0.25260	-0.00057	7.80790	0.52539	-0.03128	0.88547
0.04431	5.18767	1.80783	0.00329	-3.29963	0.24306	-0.00062	7.38301	0.53358	-0.03103	0.88511
0.04535	4.96118	1.81047	0.00482	-3.26093	0.23837	-0.00066	7.05149	0.54017	-0.03080	0.88451

0.04642	4.75572	1.81384	0.00621	-3.22659	0.23727	-0.00071	6.75783	0.54625	-0.03066	0.88449
0.04751	4.52538	1.81847	0.00768	-3.18883	0.23690	-0.00076	6.43971	0.55320	-0.03048	0.88421
0.04863	4.25413	1.82249	0.00925	-3.14325	0.23428	-0.00082	6.08252	0.56136	-0.03033	0.88414
0.04977	3.96301	1.82405	0.01081	-3.09187	0.22692	-0.00087	5.71394	0.57023	-0.03022	0.88414
0.05094	3.70393	1.82484	0.01200	-3.04546	0.21753	-0.00091	5.38991	0.57860	-0.02992	0.88280
0.05214	3.48605	1.82733	0.01276	-3.00801	0.20891	-0.00093	5.11364	0.58634	-0.02949	0.88058
0.05337	3.27801	1.83121	0.01331	-2.97389	0.20142	-0.00096	4.85299	0.59406	-0.02904	0.87813
0.05462	3.04868	1.83476	0.01410	-2.93636	0.19635	-0.00099	4.58298	0.60217	-0.02858	0.87543
0.05591	2.79606	1.83788	0.01543	-2.89460	0.19445	-0.00104	4.30618	0.61070	-0.02800	0.87162
0.05722	2.58365	1.84105	0.01662	-2.85967	0.19494	-0.00109	4.08432	0.61792	-0.02720	0.86627
0.05857	2.45558	1.84374	0.01680	-2.83903	0.19661	-0.00112	3.94906	0.62253	-0.02644	0.86122
0.05995	2.38290	1.84496	0.01603	-2.82697	0.19905	-0.00114	3.86489	0.62536	-0.02591	0.85828
0.06136	2.31756	1.84484	0.01484	-2.81488	0.20104	-0.00115	3.78743	0.62795	-0.02558	0.85706
0.06280	2.23690	1.84414	0.01360	-2.79947	0.20119	-0.00117	3.69668	0.63109	-0.02539	0.85677
0.06428	2.14631	1.84371	0.01253	-2.78259	0.20047	-0.00119	3.59912	0.63461	-0.02527	0.85682
0.06579	2.06246	1.84244	0.01136	-2.76645	0.19913	-0.00120	3.50767	0.63788	-0.02507	0.85612
0.06734	1.96799	1.83824	0.00993	-2.74611	0.19408	-0.00120	3.40383	0.64152	-0.02477	0.85495
0.06893	1.85548	1.83216	0.00839	-2.72064	0.18629	-0.00120	3.28648	0.64577	-0.02442	0.85354
0.07055	1.72492	1.82737	0.00712	-2.69278	0.17933	-0.00121	3.15948	0.65069	-0.02396	0.85120
0.07221	1.58627	1.82348	0.00581	-2.66467	0.17297	-0.00123	3.02845	0.65593	-0.02344	0.84810
0.07391	1.46168	1.82033	0.00417	-2.64020	0.16739	-0.00124	2.91341	0.66061	-0.02309	0.84583
0.07565	1.37192	1.81753	0.00212	-2.62209	0.16286	-0.00124	2.83261	0.66392	-0.02303	0.84546
0.07743	1.29282	1.81306	-0.00029	-2.60422	0.15700	-0.00124	2.76134	0.66686	-0.02317	0.84669
0.07925	1.20750	1.80645	-0.00300	-2.58343	0.14875	-0.00122	2.68141	0.67025	-0.02331	0.84838
0.08111	1.13347	1.79913	-0.00607	-2.56426	0.13987	-0.00120	2.60634	0.67345	-0.02332	0.84924
0.08302	1.07547	1.79332	-0.00941	-2.54935	0.13089	-0.00117	2.54213	0.67633	-0.02326	0.84966
0.08498	1.01929	1.78957	-0.01280	-2.53644	0.12271	-0.00114	2.48265	0.67917	-0.02305	0.84924
0.08697	0.92879	1.78671	-0.01559	-2.51856	0.11870	-0.00114	2.40630	0.68274	-0.02259	0.84716
0.08902	0.81382	1.78377	-0.01782	-2.49699	0.11894	-0.00116	2.31451	0.68697	-0.02204	0.84450
0.09112	0.68656	1.78069	-0.01957	-2.47332	0.11997	-0.00118	2.21279	0.69198	-0.02158	0.84250
0.09326	0.56784	1.77608	-0.02129	-2.44939	0.12059	-0.00120	2.12215	0.69646	-0.02128	0.84121
0.09545	0.45949	1.76882	-0.02344	-2.42470	0.11897	-0.00121	2.04518	0.70004	-0.02105	0.83983
0.09770	0.36594	1.75938	-0.02626	-2.40110	0.11400	-0.00122	1.97803	0.70289	-0.02075	0.83794
0.10000	0.30374	1.75102	-0.02951	-2.38408	0.10916	-0.00121	1.93038	0.70464	-0.02040	0.83621
0.10235	0.30140	1.74606	-0.03295	-2.38049	0.11151	-0.00121	1.92669	0.70351	-0.02008	0.83525
0.10476	0.35595	1.74439	-0.03649	-2.39002	0.12061	-0.00121	1.96531	0.69958	-0.01959	0.83372
0.10723	0.40834	1.74439	-0.03978	-2.40097	0.12992	-0.00121	2.00409	0.69582	-0.01890	0.83159
0.10975	0.41720	1.74347	-0.04295	-2.40345	0.13531	-0.00121	2.01465	0.69399	-0.01818	0.82970
0.11233	0.38667	1.74048	-0.04621	-2.39664	0.13623	-0.00120	1.99866	0.69392	-0.01777	0.82969
0.11498	0.36093	1.73580	-0.04987	-2.38877	0.13783	-0.00120	1.98744	0.69335	-0.01784	0.83241
0.11768	0.34268	1.72978	-0.05368	-2.38114	0.14357	-0.00122	1.98817	0.69152	-0.01828	0.83694
0.12045	0.29215	1.72313	-0.05717	-2.36774	0.14963	-0.00124	1.96934	0.69073	-0.01910	0.84352
0.12328	0.18050	1.71713	-0.06006	-2.34426	0.14914	-0.00126	1.90066	0.69368	-0.02003	0.85086
0.12619	0.02668	1.71078	-0.06256	-2.31282	0.14093	-0.00127	1.79616	0.69976	-0.02066	0.85646
0.12916	-0.11921	1.70277	-0.06536	-2.28149	0.13015	-0.00126	1.69519	0.70590	-0.02086	0.85923
0.13219	-0.22309	1.69435	-0.06871	-2.25769	0.12308	-0.00124	1.62374	0.70978	-0.02075	0.85936
0.13531	-0.29722	1.68711	-0.07213	-2.24001	0.12032	-0.00124	1.57443	0.71200	-0.02048	0.85755
0.13849	-0.36464	1.68269	-0.07503	-2.22548	0.12271	-0.00125	1.53539	0.71368	-0.01998	0.85371
0.14175	-0.43108	1.68150	-0.07746	-2.21349	0.12888	-0.00128	1.50326	0.71521	-0.01937	0.84900
0.14508	-0.53120	1.68060	-0.07950	-2.19527	0.13457	-0.00132	1.45476	0.71838	-0.01881	0.84522
0.14850	-0.64678	1.67780	-0.08169	-2.17248	0.13792	-0.00135	1.39769	0.72238	-0.01837	0.84267
0.15199	-0.73656	1.67575	-0.08459	-2.15502	0.13866	-0.00137	1.35496	0.72544	-0.01811	0.84084
0.15557	-0.79988	1.67511	-0.08831	-2.14423	0.13727	-0.00137	1.32446	0.72754	-0.01792	0.83895
0.15923	-0.87244	1.67203	-0.09262	-2.13045	0.13157	-0.00135	1.28524	0.73019	-0.01778	0.83717
0.16298	-0.97009	1.66439	-0.09720	-2.10786	0.12240	-0.00134	1.23586	0.73343	-0.01765	0.83592
0.16681	-1.05917	1.65632	-0.10173	-2.08582	0.11833	-0.00135	1.20039	0.73503	-0.01724	0.83352
0.17074	-1.14967	1.65096	-0.10579	-2.06539	0.11934	-0.00138	1.16892	0.73653	-0.01670	0.83053
0.17475	-1.26924	1.64805	-0.10907	-2.04179	0.11918	-0.00142	1.12026	0.74061	-0.01644	0.82938
0.17887	-1.41349	1.64669	-0.11168	-2.01571	0.11615	-0.00145	1.05641	0.74706	-0.01660	0.83102
0.18307	-1.54395	1.64525	-0.11456	-1.99264	0.11086	-0.00146	0.99938	0.75304	-0.01654	0.83154
0.18738	-1.61587	1.64316	-0.11865	-1.98004	0.10708	-0.00145	0.97212	0.75505	-0.01596	0.82931
0.19179	-1.62787	1.64307	-0.12337	-1.98046	0.10997	-0.00145	0.97758	0.75259	-0.01530	0.82694
0.19631	-1.62999	1.64555	-0.12784	-1.98498	0.11752	-0.00146	0.99176	0.74912	-0.01481	0.82578
0.20092	-1.66391	1.64677	-0.13207	-1.98223	0.12323	-0.00148	0.99132	0.74751	-0.01463	0.82651
0.20565	-1.73304	1.64352	-0.13637	-1.96892	0.12332	-0.00149	0.97032	0.74822	-0.01470	0.82870
0.21049	-1.80747	1.63615	-0.14100	-1.95101	0.11960	-0.00149	0.94223	0.74950	-0.01473	0.83044
0.21544	-1.86771	1.62709	-0.14612	-1.93402	0.11369	-0.00148	0.92027	0.74987	-0.01471	0.83193
0.22051	-1.92194	1.61852	-0.15149	-1.91841	0.10575	-0.00146	0.90306	0.74979	-0.01491	0.83498
0.22570	-1.98861	1.60973	-0.15685	-1.90044	0.09674	-0.00143	0.88012	0.75053	-0.01530	0.83933
0.23101	-2.07261	1.60036	-0.16216	-1.87867	0.08855	-0.00142	0.84924	0.75231	-0.01572	0.84373
0.23645	-2.14534	1.59208	-0.16762	-1.85966	0.08497	-0.00142	0.82627	0.75284	-0.01607	0.84780
0.24201	-2.19303	1.58728	-0.17293	-1.84826	0.08868	-0.00144	0.81861	0.75121	-0.01621	0.85067
0.24771	-2.22433	1.58677	-0.17789	-1.84385	0.09554	-0.00145	0.82037	0.74869	-0.01602	0.85131
0.25354	-2.23909	1.58834	-0.18299	-1.84452	0.10278	-0.00146	0.83129	0.74513	-0.01565	0.85083
0.25950	-2.24809	1.58963	-0.18832	-1.84625	0.11217	-0.00147	0.84711	0.74069	-0.01527	0.85062
0.26561	-2.27337	1.59037	-0.19325	-1.84441	0.12531	-0.00150	0.85766	0.73692	-0.01470	0.84898
0.27186	-2.31082	1.59148	-0.19779	-1.84037	0.13968	-0.00154	0.86219	0.73424	-0.01390	0.84505
0.27826	-2.32655	1.59349	-0.20248	-1.84135	0.15353	-0.00156	0.87253	0.73095	-0.01308	0.84037
0.28480	-2.33116	1.59541	-0.20718	-1.84490	0.16578	-0.00157	0.88239	0.72773	-0.01218	0.83504
0.29150	-2.37169	1.59567	-0.21148	-1.84047	0.17549	-0.00158	0.87360	0.72693	-0.01129	0.83001
0.29836	-2.45105	1.59537	-0.21539	-1.82796	0.18505	-0.00161	0.85184	0.72789	-0.01078	0.82734

0.30539	-2.53544	1.59529	-0.21941	-1.81453	0.19435	-0.00166	0.83438	0.72817	-0.01060	0.82684
0.31257	-2.61027	1.59554	-0.22354	-1.80351	0.20266	-0.00169	0.82476	0.72721	-0.01050	0.82684
0.31993	-2.69592	1.59642	-0.22749	-1.79129	0.20668	-0.00172	0.80795	0.72768	-0.01022	0.82571
0.32745	-2.78668	1.59758	-0.23169	-1.77858	0.20684	-0.00173	0.78346	0.72966	-0.00974	0.82329
0.33517	-2.85041	1.59859	-0.23656	-1.77090	0.21069	-0.00174	0.77056	0.72956	-0.00927	0.82097
0.34304	-2.87367	1.59969	-0.24190	-1.77088	0.22313	-0.00176	0.78218	0.72499	-0.00876	0.81814
0.35112	-2.84499	1.60194	-0.24779	-1.78158	0.24256	-0.00179	0.82693	0.71520	-0.00807	0.81366
0.35938	-2.77764	1.60488	-0.25436	-1.80000	0.26117	-0.00179	0.89542	0.70272	-0.00748	0.80996
0.36784	-2.73130	1.60724	-0.26106	-1.81381	0.27285	-0.00178	0.95435	0.69250	-0.00729	0.80936
0.37649	-2.76488	1.60755	-0.26699	-1.81053	0.27763	-0.00179	0.97134	0.68786	-0.00735	0.81082
0.38536	-2.86442	1.60621	-0.27209	-1.79332	0.28033	-0.00182	0.95330	0.68732	-0.00735	0.81202
0.39442	-2.96228	1.60597	-0.27703	-1.77817	0.28530	-0.00186	0.93557	0.68655	-0.00724	0.81251
0.40370	-3.02485	1.60851	-0.28226	-1.77360	0.29351	-0.00188	0.93601	0.68333	-0.00724	0.81362
0.41321	-3.06385	1.61317	-0.28771	-1.77647	0.30510	-0.00189	0.95083	0.67819	-0.00754	0.81648
0.42292	-3.11529	1.61832	-0.29300	-1.77753	0.31694	-0.00191	0.96153	0.67370	-0.00803	0.82089
0.43288	-3.20279	1.62226	-0.29817	-1.77012	0.32017	-0.00191	0.95111	0.67222	-0.00825	0.82436
0.44307	-3.32367	1.62334	-0.30354	-1.75317	0.30990	-0.00189	0.91742	0.67397	-0.00795	0.82515
0.45349	-3.48978	1.62121	-0.30884	-1.72410	0.28934	-0.00186	0.85586	0.67975	-0.00713	0.82282
0.46417	-3.68721	1.61850	-0.31377	-1.68786	0.26845	-0.00185	0.77997	0.68844	-0.00599	0.81800
0.47508	-3.85680	1.61884	-0.31866	-1.65939	0.25960	-0.00187	0.72486	0.69493	-0.00507	0.81423
0.48626	-3.96187	1.62332	-0.32373	-1.64760	0.26596	-0.00191	0.70738	0.69547	-0.00491	0.81531
0.49771	-3.99703	1.63059	-0.32919	-1.65309	0.28166	-0.00194	0.72701	0.68948	-0.00535	0.82068
0.50942	-3.97349	1.63854	-0.33540	-1.67184	0.30232	-0.00195	0.77764	0.67814	-0.00565	0.82590
0.52140	-3.92597	1.64548	-0.34213	-1.69471	0.32612	-0.00195	0.84432	0.66447	-0.00517	0.82686
0.53367	-3.90063	1.65039	-0.34880	-1.71045	0.34907	-0.00196	0.90459	0.65228	-0.00399	0.82352
0.54624	-3.93046	1.65302	-0.35503	-1.71154	0.36508	-0.00199	0.93849	0.64425	-0.00263	0.81884
0.55910	-4.02513	1.65353	-0.36075	-1.69672	0.36874	-0.00202	0.93561	0.64134	-0.00152	0.81501
0.57225	-4.16810	1.65282	-0.36613	-1.67137	0.35836	-0.00203	0.90107	0.64276	-0.00080	0.81274
0.58569	-4.32264	1.65278	-0.37122	-1.64550	0.34117	-0.00200	0.85700	0.64573	-0.00039	0.81201
0.59948	-4.45688	1.65474	-0.37599	-1.62683	0.32962	-0.00197	0.82525	0.64710	-0.00008	0.81211
0.61357	-4.56016	1.65888	-0.38053	-1.61702	0.33323	-0.00197	0.81298	0.64559	0.00041	0.81204
0.62802	-4.63776	1.66528	-0.38496	-1.61458	0.35418	-0.00203	0.81645	0.64177	0.00112	0.81153
0.64280	-4.69978	1.67365	-0.38923	-1.61674	0.38578	-0.00212	0.82879	0.63699	0.00188	0.81105
0.65794	-4.75894	1.68337	-0.39341	-1.62016	0.41777	-0.00221	0.84376	0.63237	0.00261	0.81048
0.67340	-4.83165	1.69319	-0.39761	-1.62044	0.44123	-0.00229	0.85280	0.62894	0.00335	0.80950
0.68927	-4.93409	1.70169	-0.40201	-1.61319	0.45231	-0.00235	0.84644	0.62764	0.00402	0.80856
0.70547	-5.06403	1.70833	-0.40665	-1.59875	0.45251	-0.00238	0.82490	0.62818	0.00460	0.80781
0.72207	-5.19285	1.71385	-0.41161	-1.58411	0.44684	-0.00238	0.80511	0.62807	0.00502	0.80769
0.73910	-5.29282	1.71876	-0.41683	-1.57556	0.44146	-0.00236	0.80345	0.62476	0.00520	0.80905
0.75649	-5.36936	1.72314	-0.42196	-1.57191	0.44057	-0.00233	0.81729	0.61870	0.00523	0.81118
0.77429	-5.44982	1.72722	-0.42673	-1.56755	0.44395	-0.00231	0.83019	0.61259	0.00534	0.81205
0.79246	-5.55120	1.73133	-0.43119	-1.55894	0.45001	-0.00232	0.82958	0.60852	0.00566	0.81019
0.81116	-5.67120	1.73585	-0.43558	-1.54666	0.45791	-0.00236	0.81659	0.60640	0.00622	0.80540
0.83022	-5.78621	1.74146	-0.43991	-1.53597	0.46807	-0.00241	0.80590	0.60432	0.00680	0.79949
0.84976	-5.88490	1.74863	-0.44408	-1.52967	0.47859	-0.00247	0.80598	0.60111	0.00717	0.79435
0.86972	-5.97814	1.75681	-0.44807	-1.52515	0.48593	-0.00251	0.81114	0.59747	0.00749	0.78952
0.89023	-6.08283	1.76530	-0.45190	-1.51862	0.48874	-0.00254	0.81205	0.59443	0.00790	0.78458
0.91116	-6.20483	1.77379	-0.45538	-1.50899	0.48761	-0.00256	0.80432	0.59248	0.00829	0.78118
0.93257	-6.34649	1.78242	-0.45846	-1.49614	0.48303	-0.00257	0.78606	0.59192	0.00846	0.78080
0.95456	-6.50755	1.79109	-0.46125	-1.48019	0.47530	-0.00257	0.75770	0.59270	0.00836	0.78340
0.97704	-6.67970	1.79942	-0.46392	-1.46235	0.46485	-0.00256	0.72511	0.59389	0.00812	0.78756
1.00000	-6.84588	1.80724	-0.46670	-1.44569	0.45328	-0.00254	0.69922	0.59368	0.00787	0.79212
1.02354	-6.99347	1.81483	-0.46970	-1.43290	0.44312	-0.00251	0.68700	0.59091	0.00749	0.79785
1.04767	-7.12407	1.82276	-0.47288	-1.42413	0.43562	-0.00249	0.68632	0.58609	0.00680	0.80610
1.07227	-7.24904	1.83134	-0.47615	-1.41732	0.43082	-0.00247	0.69041	0.58046	0.00587	0.81624
1.09745	-7.37686	1.84045	-0.47938	-1.41075	0.42875	-0.00246	0.69600	0.57441	0.00496	0.82630
1.12334	-7.50366	1.84995	-0.48237	-1.40503	0.43027	-0.00246	0.70745	0.56716	0.00421	0.83533
1.14982	-7.61897	1.85978	-0.48500	-1.40191	0.43652	-0.00248	0.73178	0.55779	0.00359	0.84349
1.17675	-7.71532	1.87002	-0.48734	-1.40282	0.44870	-0.00250	0.77360	0.54602	0.00314	0.85042
1.20453	-7.79450	1.88097	-0.48955	-1.40798	0.46676	-0.00254	0.83361	0.53221	0.00304	0.85498
1.23289	-7.86613	1.89231	-0.49161	-1.41508	0.48732	-0.00258	0.90301	0.51806	0.00342	0.85616
1.26183	-7.94457	1.90372	-0.49332	-1.42075	0.50537	-0.00261	0.96797	0.50547	0.00413	0.85497
1.29149	-8.04071	1.91501	-0.49463	-1.42239	0.51679	-0.00263	1.01604	0.49574	0.00491	0.85345
1.32188	-8.15933	1.92601	-0.49566	-1.41870	0.52081	-0.00264	1.04043	0.48917	0.00557	0.85307
1.35300	-8.29599	1.93680	-0.49657	-1.41089	0.52064	-0.00264	1.04487	0.48501	0.00604	0.85427
1.38485	-8.44232	1.94773	-0.49748	-1.40130	0.52061	-0.00265	1.03770	0.48220	0.00636	0.85665
1.41743	-8.59554	1.95879	-0.49842	-1.39056	0.52200	-0.00267	1.02183	0.48041	0.00655	0.86007
1.45075	-8.75652	1.96968	-0.49937	-1.37797	0.52419	-0.00270	0.99656	0.47970	0.00655	0.86492
1.48500	-8.92262	1.98031	-0.50036	-1.36395	0.52716	-0.00275	0.96569	0.47963	0.00632	0.87156
1.51999	-9.08380	1.99078	-0.50146	-1.35083	0.53154	-0.00279	0.93845	0.47913	0.00588	0.87979
1.55569	-9.23284	2.00134	-0.50273	-1.34077	0.53761	-0.00283	0.92250	0.47715	0.00539	0.88859
1.59236	-9.37080	2.01228	-0.50409	-1.33429	0.54494	-0.00286	0.91929	0.47337	0.00508	0.89647
1.62973	-9.49742	2.02361	-0.50536	-1.33148	0.55329	-0.00288	0.93025	0.46765	0.00506	0.90270
1.66806	-9.61094	2.03540	-0.50630	-1.33273	0.56318	-0.00288	0.95975	0.45960	0.00526	0.90797
1.70736	-9.70880	2.04761	-0.50668	-1.33847	0.57551	-0.00288	1.01193	0.44907	0.00558	0.91309
1.74764	-9.79661	2.06020	-0.50641	-1.34734	0.58971	-0.00287	1.08314	0.43685	0.00596	0.91836
1.78859	-9.88348	2.07283	-0.50554	-1.35680	0.60418	-0.00287	1.16467	0.42403	0.00640	0.92356
1.83083	-9.97920	2.08544	-0.50413	-1.36488	0.61776	-0.00286	1.25018	0.41106	0.00694	0.92825
1.87371	-10.08694	2.09771	-0.50233	-1.37029	0.62944	-0.00287	1.33351	0.39840	0.00761	0.93195
1.91791	-10.20919	2.10983	-0.50016	-1.37305	0.63966	-0.00288	1.41408	0.38588	0.00839	0.93488
1.96309	-10.34400	2.12181	-0.49764	-1.37355	0.64904	-0.00289	1.49097	0.37353	0.00923	0.93724

2.00924	-10.48823	2.13378	-0.49479	-1.37264	0.65812	-0.00291	1.56701	0.36118	0.01013	0.93893
2.05634	-10.63836	2.14574	-0.49157	-1.37099	0.66721	-0.00293	1.64648	0.34859	0.01106	0.93999
2.10482	-10.79440	2.15769	-0.48794	-1.36851	0.67604	-0.00295	1.73116	0.33574	0.01191	0.94099
2.15424	-10.95219	2.16939	-0.48392	-1.36543	0.68525	-0.00297	1.82254	0.32276	0.01256	0.94267
2.20507	-11.10776	2.18096	-0.47951	-1.36277	0.69679	-0.00300	1.92854	0.30931	0.01295	0.94550
2.25683	-11.25380	2.19244	-0.47476	-1.36196	0.71223	-0.00303	2.05778	0.29533	0.01311	0.94942
2.31000	-11.38796	2.20420	-0.46966	-1.36407	0.73228	-0.00308	2.21967	0.28070	0.01315	0.95376
2.36463	-11.51050	2.21639	-0.46428	-1.36921	0.75591	-0.00312	2.41764	0.26564	0.01321	0.95755
2.42014	-11.62433	2.22894	-0.45870	-1.37640	0.78051	-0.00316	2.64446	0.25086	0.01336	0.96020
2.47709	-11.73646	2.24197	-0.45290	-1.38438	0.80376	-0.00320	2.88965	0.23681	0.01361	0.96186
2.53550	-11.85143	2.25546	-0.44695	-1.39207	0.82425	-0.00322	3.13974	0.22390	0.01397	0.96267
2.59471	-11.97001	2.26928	-0.44098	-1.39888	0.84183	-0.00323	3.37965	0.21253	0.01438	0.96315
2.65604	-12.09408	2.28379	-0.43491	-1.40503	0.85791	-0.00324	3.60649	0.20266	0.01476	0.96410
2.71887	-12.21751	2.29892	-0.42892	-1.41142	0.87395	-0.00325	3.82017	0.19429	0.01509	0.96594
2.78242	-12.33670	2.31444	-0.42320	-1.41823	0.89035	-0.00326	4.01803	0.18742	0.01538	0.96885
2.84819	-12.45450	2.33059	-0.41774	-1.42536	0.90723	-0.00327	4.19904	0.18191	0.01561	0.97323
2.91545	-12.57030	2.34710	-0.41274	-1.43232	0.92363	-0.00328	4.35564	0.17778	0.01578	0.97928
2.98329	-12.68372	2.36357	-0.40825	-1.43863	0.93871	-0.00329	4.48220	0.17498	0.01587	0.98673
3.05344	-12.79731	2.38033	-0.40425	-1.44436	0.95254	-0.00330	4.58327	0.17321	0.01591	0.99542
3.12598	-12.91227	2.39731	-0.40069	-1.44929	0.96471	-0.00330	4.65758	0.17239	0.01590	1.00490
3.19898	-13.02438	2.41396	-0.39769	-1.45343	0.97492	-0.00330	4.70862	0.17228	0.01585	1.01448
3.27439	-13.13735	2.43068	-0.39509	-1.45685	0.98344	-0.00330	4.74017	0.17274	0.01578	1.02397
3.35121	-13.24775	2.44710	-0.39291	-1.45981	0.99046	-0.00329	4.75946	0.17350	0.01568	1.03305
3.43053	-13.35762	2.46347	-0.39105	-1.46240	0.99623	-0.00328	4.76884	0.17448	0.01553	1.04193
3.51124	-13.46496	2.47942	-0.38953	-1.46460	1.00080	-0.00327	4.77229	0.17547	0.01533	1.05065
3.59324	-13.57247	2.49500	-0.38819	-1.46615	1.00408	-0.00326	4.76719	0.17652	0.01510	1.05920
3.67782	-13.67950	2.51033	-0.38709	-1.46729	1.00639	-0.00324	4.76000	0.17738	0.01482	1.06813
3.76506	-13.79205	2.52545	-0.38589	-1.46745	1.00757	-0.00322	4.74374	0.17820	0.01450	1.07732
3.85356	-13.90154	2.54007	-0.38493	-1.46735	1.00787	-0.00319	4.73186	0.17860	0.01414	1.08700
3.94477	-14.01801	2.55439	-0.38357	-1.46645	1.00753	-0.00317	4.71761	0.17877	0.01376	1.09647
4.03714	-14.13181	2.56829	-0.38231	-1.46541	1.00633	-0.00314	4.71221	0.17838	0.01339	1.10580
4.13223	-14.25057	2.58171	-0.38063	-1.46382	1.00453	-0.00312	4.71131	0.17757	0.01300	1.11472
4.23012	-14.37572	2.59497	-0.37855	-1.46152	1.00181	-0.00309	4.71325	0.17632	0.01265	1.12271
4.32900	-14.49610	2.60751	-0.37647	-1.45938	0.99876	-0.00305	4.72850	0.17447	0.01234	1.13001
4.43066	-14.62597	2.61969	-0.37350	-1.45688	0.99650	-0.00303	4.74558	0.17245	0.01203	1.13613
4.53515	-14.75296	2.63181	-0.37041	-1.45491	0.99427	-0.00300	4.78137	0.16974	0.01184	1.14135
4.64253	-14.87970	2.64336	-0.36688	-1.45332	0.99307	-0.00297	4.82595	0.16687	0.01171	1.14601
4.75059	-15.01449	2.65449	-0.36246	-1.45135	0.99307	-0.00295	4.86495	0.16425	0.01164	1.14948
4.86145	-15.14510	2.66557	-0.35812	-1.44954	0.99222	-0.00292	4.91424	0.16127	0.01177	1.15226
4.97760	-15.28570	2.67605	-0.35323	-1.44645	0.99077	-0.00291	4.94206	0.15895	0.01193	1.15479
5.09424	-15.43939	2.68609	-0.34753	-1.44158	0.98845	-0.00289	4.93827	0.15756	0.01215	1.15641
5.21376	-15.59267	2.69634	-0.34198	-1.43588	0.98359	-0.00287	4.92964	0.15610	0.01258	1.15759
5.33618	-15.74925	2.70544	-0.33633	-1.42898	0.97796	-0.00286	4.89741	0.15534	0.01298	1.15902
5.46150	-15.91859	2.71361	-0.32991	-1.42048	0.97213	-0.00285	4.83173	0.15563	0.01332	1.16028
5.58971	-16.08789	2.72229	-0.32357	-1.41139	0.96405	-0.00284	4.76455	0.15577	0.01380	1.16152
5.72082	-16.24866	2.73035	-0.31760	-1.40292	0.95612	-0.00282	4.70485	0.15579	0.01424	1.16348
5.85823	-16.41329	2.73647	-0.31086	-1.39466	0.95102	-0.00282	4.63372	0.15662	0.01444	1.16626
5.99520	-16.57581	2.74287	-0.30401	-1.38646	0.94523	-0.00281	4.56287	0.15749	0.01463	1.16933
6.13497	-16.73249	2.75039	-0.29758	-1.37893	0.93861	-0.00280	4.50313	0.15803	0.01485	1.17292
6.28141	-16.87949	2.75625	-0.29116	-1.37313	0.93587	-0.00280	4.45093	0.15896	0.01489	1.17726
6.42674	-17.01713	2.76037	-0.28429	-1.36886	0.93702	-0.00280	4.40148	0.16052	0.01471	1.18196
6.57895	-17.15972	2.76632	-0.27720	-1.36487	0.93756	-0.00281	4.35324	0.16209	0.01449	1.18733
6.73401	-17.30061	2.77406	-0.27060	-1.36130	0.93720	-0.00281	4.30823	0.16353	0.01427	1.19324
6.89180	-17.42283	2.77866	-0.26451	-1.35925	0.94016	-0.00281	4.26887	0.16534	0.01384	1.19983
7.05716	-17.53861	2.78116	-0.25791	-1.35838	0.94630	-0.00283	4.22644	0.16791	0.01311	1.20754
7.22022	-17.65428	2.78571	-0.25148	-1.35787	0.95166	-0.00284	4.18627	0.17037	0.01231	1.21560
7.39098	-17.77886	2.79326	-0.24510	-1.35748	0.95597	-0.00284	4.14775	0.17264	0.01150	1.22398
7.56430	-17.88720	2.79860	-0.23959	-1.35776	0.96076	-0.00285	4.12312	0.17446	0.01075	1.23194
7.73994	-17.96620	2.79789	-0.23445	-1.35951	0.96845	-0.00286	4.11442	0.17625	0.00978	1.24019
7.92393	-18.05165	2.79889	-0.22894	-1.36161	0.97598	-0.00287	4.10539	0.17812	0.00870	1.24880
8.11030	-18.14405	2.80239	-0.22338	-1.36373	0.98246	-0.00288	4.09620	0.17989	0.00766	1.25698
8.29876	-18.25005	2.80982	-0.21780	-1.36556	0.98754	-0.00288	4.08378	0.18152	0.00676	1.26434
8.49618	-18.33040	2.81152	-0.21345	-1.36739	0.99255	-0.00288	4.08207	0.18272	0.00599	1.27099
8.69565	-18.37567	2.80572	-0.21010	-1.36961	0.99806	-0.00289	4.09267	0.18364	0.00520	1.27764
8.90472	-18.43518	2.80304	-0.20624	-1.37181	1.00289	-0.00290	4.09884	0.18467	0.00438	1.28449
9.11577	-18.49895	2.80178	-0.20243	-1.37382	1.00696	-0.00290	4.10283	0.18566	0.00361	1.29107
9.32836	-18.58680	2.80609	-0.19776	-1.37565	1.01042	-0.00290	4.09737	0.18688	0.00289	1.29753
9.54198	-18.66665	2.80926	-0.19397	-1.37714	1.01324	-0.00289	4.09430	0.18782	0.00233	1.30343
9.76563	-18.68434	2.79920	-0.19326	-1.37850	1.01556	-0.00290	4.11335	0.18785	0.00190	1.30939
10.00000	-18.69459	2.78757	-0.19295	-1.37996	1.01762	-0.00290	4.13631	0.18775	0.00146	1.31610

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Median stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 6 - 15 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-0.53016	2.44353	-0.08414	-3.12866	1.08381	-0.00046	10.58786	0.27020	-0.02618	0.57180
PGV	11.50600	1.59235	-0.09115	-4.00578	1.17580	0.00007	22.12340	0.22066	-0.00904	0.51745
PGA	4.93870	1.44888	-0.07866	-3.09681	0.60269	-0.00111	8.86918	0.39806	-0.01939	0.76112
0.01000	4.98025	1.45455	-0.07673	-3.09814	0.58985	-0.00112	8.87044	0.40097	0.01006	0.66313
0.01024	4.99072	1.45507	-0.07647	-3.09977	0.58913	-0.00112	8.87857	0.40110	0.01004	0.66365
0.01048	5.00294	1.45564	-0.07619	-3.10170	0.58837	-0.00112	8.88892	0.40123	0.01003	0.66416
0.01072	5.01651	1.45627	-0.07589	-3.10385	0.58756	-0.00112	8.90076	0.40136	0.01001	0.66466
0.01097	5.03132	1.45695	-0.07556	-3.10620	0.58667	-0.00111	8.91377	0.40150	0.00999	0.66517
0.01123	5.04755	1.45770	-0.07520	-3.10877	0.58569	-0.00111	8.92818	0.40166	0.00997	0.66568
0.01150	5.06544	1.45852	-0.07480	-3.11160	0.58463	-0.00111	8.94430	0.40182	0.00994	0.66622
0.01177	5.08529	1.45942	-0.07437	-3.11476	0.58350	-0.00111	8.96246	0.40199	0.00990	0.66680
0.01205	5.10763	1.46044	-0.07389	-3.11833	0.58230	-0.00111	8.98337	0.40217	0.00986	0.66742
0.01233	5.13318	1.46157	-0.07336	-3.12243	0.58100	-0.00110	9.00820	0.40235	0.00981	0.66811
0.01262	5.16196	1.46284	-0.07277	-3.12707	0.57957	-0.00110	9.03682	0.40254	0.00975	0.66889
0.01292	5.19239	1.46425	-0.07212	-3.13194	0.57792	-0.00110	9.06611	0.40278	0.00969	0.66971
0.01322	5.22223	1.46581	-0.07141	-3.13665	0.57600	-0.00109	9.09196	0.40312	0.00963	0.67056
0.01353	5.25154	1.46749	-0.07061	-3.14114	0.57384	-0.00109	9.11461	0.40357	0.00958	0.67141
0.01385	5.28293	1.46935	-0.06973	-3.14590	0.57150	-0.00109	9.13864	0.40408	0.00955	0.67226
0.01417	5.31910	1.47147	-0.06877	-3.15144	0.56884	-0.00109	9.16789	0.40462	0.00953	0.67309
0.01451	5.36156	1.47388	-0.06775	-3.15802	0.56561	-0.00108	9.20385	0.40520	0.00953	0.67392
0.01485	5.40988	1.47655	-0.06665	-3.16552	0.56169	-0.00108	9.24560	0.40582	0.00953	0.67488
0.01520	5.45976	1.47944	-0.06543	-3.17310	0.55707	-0.00107	9.28665	0.40656	0.00951	0.67618
0.01556	5.50694	1.48254	-0.06406	-3.17993	0.55193	-0.00107	9.32130	0.40750	0.00946	0.67792
0.01592	5.55001	1.48584	-0.06254	-3.18567	0.54673	-0.00107	9.34888	0.40863	0.00938	0.68008
0.01630	5.58422	1.48936	-0.06086	-3.18940	0.54159	-0.00107	9.36175	0.41004	0.00931	0.68248
0.01668	5.59594	1.49311	-0.05898	-3.18869	0.53566	-0.00109	9.33474	0.41208	0.00929	0.68481
0.01707	5.57194	1.49729	-0.05684	-3.18140	0.52781	-0.00111	9.24181	0.41513	0.00936	0.68678
0.01748	5.51317	1.50229	-0.05441	-3.16806	0.51776	-0.00114	9.08215	0.41928	0.00954	0.68833
0.01789	5.43072	1.50829	-0.05168	-3.15097	0.50640	-0.00117	8.87554	0.42432	0.00978	0.68973
0.01831	5.33223	1.51498	-0.04874	-3.13151	0.49460	-0.00121	8.63776	0.42997	0.01002	0.69143
0.01874	5.22545	1.52169	-0.04578	-3.11080	0.48221	-0.00124	8.38453	0.43592	0.01021	0.69360
0.01918	5.12242	1.52796	-0.04297	-3.09047	0.46915	-0.00127	8.14132	0.44180	0.01034	0.69627
0.01963	5.02169	1.53365	-0.04031	-3.06970	0.45619	-0.00130	7.91531	0.44748	0.01040	0.69936
0.02009	4.91263	1.53906	-0.03769	-3.04677	0.44475	-0.00135	7.69392	0.45314	0.01047	0.70233
0.02057	4.79301	1.54457	-0.03506	-3.02199	0.43617	-0.00140	7.47060	0.45884	0.01067	0.70435
0.02105	4.66389	1.54983	-0.03244	-2.99580	0.43065	-0.00147	7.24238	0.46452	0.01113	0.70440
0.02154	4.52195	1.55433	-0.02993	-2.96750	0.42721	-0.00153	7.00141	0.47024	0.01194	0.70205
0.02205	4.36258	1.55803	-0.02747	-2.93624	0.42404	-0.00160	6.73978	0.47624	0.01294	0.69832
0.02257	4.19312	1.56100	-0.02508	-2.90329	0.41864	-0.00166	6.46589	0.48254	0.01404	0.69416
0.02310	4.02899	1.56290	-0.02288	-2.87085	0.40865	-0.00169	6.20048	0.48886	0.01520	0.68973
0.02364	3.87395	1.56343	-0.02097	-2.83916	0.39293	-0.00170	5.94968	0.49509	0.01638	0.68505
0.02420	3.72395	1.56300	-0.01938	-2.80786	0.37208	-0.00170	5.70735	0.50134	0.01752	0.68028
0.02477	3.58134	1.56253	-0.01811	-2.77817	0.34872	-0.00168	5.47709	0.50757	0.01858	0.67571
0.02535	3.45839	1.56291	-0.01718	-2.75283	0.32704	-0.00167	5.27908	0.51328	0.01953	0.67154
0.02595	3.37710	1.56473	-0.01661	-2.73620	0.31102	-0.00166	5.14321	0.51767	0.02040	0.66755
0.02656	3.33970	1.56765	-0.01641	-2.72865	0.30129	-0.00165	5.06800	0.52054	0.02119	0.66374
0.02719	3.30362	1.57026	-0.01639	-2.72154	0.29481	-0.00165	4.99689	0.52310	0.02183	0.66069
0.02783	3.21314	1.57141	-0.01609	-2.70384	0.28891	-0.00167	4.86387	0.52694	0.02232	0.65872
0.02848	3.04733	1.57086	-0.01519	-2.67162	0.28382	-0.00171	4.64898	0.53267	0.02270	0.65771
0.02915	2.82321	1.56871	-0.01376	-2.62838	0.28079	-0.00178	4.37563	0.53986	0.02306	0.65691
0.02984	2.57916	1.56515	-0.01220	-2.58128	0.28040	-0.00185	4.08974	0.54747	0.02350	0.65549
0.03054	2.36141	1.56088	-0.01095	-2.53878	0.28317	-0.00192	3.84415	0.55408	0.02400	0.65339
0.03126	2.19700	1.55718	-0.01024	-2.50623	0.28891	-0.00198	3.66530	0.55892	0.02455	0.65079
0.03199	2.08466	1.55514	-0.00999	-2.48410	0.29673	-0.00203	3.54668	0.56218	0.02524	0.64744
0.03275	2.01659	1.55517	-0.01014	-2.47122	0.30592	-0.00207	3.47660	0.56419	0.02607	0.64320
0.03352	1.99118	1.55620	-0.01071	-2.46652	0.31553	-0.00210	3.45129	0.56484	0.02689	0.63892
0.03430	1.99603	1.55646	-0.01155	-2.46644	0.32394	-0.00212	3.45680	0.56436	0.02743	0.63609
0.03511	2.00278	1.55495	-0.01242	-2.46525	0.32947	-0.00213	3.46302	0.56371	0.02766	0.63493
0.03594	1.98141	1.55190	-0.01310	-2.45783	0.33117	-0.00214	3.43790	0.56407	0.02779	0.63422
0.03678	1.92882	1.54810	-0.01365	-2.44436	0.32891	-0.00215	3.37682	0.56574	0.02800	0.63299
0.03765	1.87495	1.54421	-0.01442	-2.43096	0.32283	-0.00214	3.30791	0.56781	0.02836	0.63105
0.03854	1.84280	1.54021	-0.01567	-2.42190	0.31320	-0.00211	3.25326	0.56944	0.02882	0.62887
0.03944	1.82770	1.53575	-0.01736	-2.41601	0.30063	-0.00205	3.21063	0.57058	0.02924	0.62723
0.04037	1.81564	1.53048	-0.01924	-2.41029	0.28599	-0.00199	3.17033	0.57151	0.02943	0.62730
0.04132	1.80466	1.52434	-0.02120	-2.40432	0.27092	-0.00193	3.13353	0.57210	0.02926	0.62972
0.04229	1.80769	1.51817	-0.02327	-2.40113	0.25796	-0.00187	3.11488	0.57179	0.02882	0.63379
0.04329	1.83285	1.51294	-0.02538	-2.40276	0.24967	-0.00181	3.12536	0.57025	0.02827	0.63838
0.04431	1.86932	1.50921	-0.02736	-2.40739	0.24789	-0.00178	3.15778	0.56784	0.02772	0.64273
0.04535	1.89413	1.50742	-0.02899	-2.41116	0.25344	-0.00178	3.19002	0.56548	0.02729	0.64597

0.04642	1.88822	1.50762	-0.03016	-2.41080	0.26558	-0.00181	3.20052	0.56401	0.02711	0.64709
0.04751	1.84569	1.50864	-0.03097	-2.40436	0.28207	-0.00188	3.18009	0.56369	0.02723	0.64594
0.04863	1.76696	1.50858	-0.03159	-2.39030	0.29920	-0.00196	3.12622	0.56452	0.02756	0.64319
0.04977	1.64858	1.50580	-0.03221	-2.36651	0.31251	-0.00204	3.03285	0.56674	0.02803	0.63938
0.05094	1.49489	1.49995	-0.03294	-2.33347	0.31972	-0.00212	2.90260	0.57043	0.02864	0.63467
0.05214	1.33056	1.49268	-0.03386	-2.29743	0.32258	-0.00218	2.75851	0.57492	0.02946	0.62879
0.05337	1.18514	1.48641	-0.03499	-2.26625	0.32454	-0.00222	2.62859	0.57920	0.03049	0.62185
0.05462	1.07332	1.48197	-0.03631	-2.24342	0.32722	-0.00225	2.52718	0.58254	0.03147	0.61531
0.05591	0.99717	1.47811	-0.03797	-2.22808	0.33003	-0.00226	2.45635	0.58454	0.03204	0.61127
0.05722	0.95497	1.47313	-0.04016	-2.21821	0.33190	-0.00226	2.41424	0.58496	0.03200	0.61119
0.05857	0.94403	1.46633	-0.04296	-2.21247	0.33237	-0.00224	2.39896	0.58379	0.03131	0.61537
0.05995	0.95461	1.45820	-0.04616	-2.20927	0.33195	-0.00220	2.40364	0.58145	0.03019	0.62273
0.06136	0.96744	1.44949	-0.04941	-2.20562	0.33049	-0.00217	2.41243	0.57889	0.02896	0.63125
0.06280	0.96345	1.44074	-0.05250	-2.19856	0.32663	-0.00214	2.40753	0.57710	0.02793	0.63874
0.06428	0.93026	1.43220	-0.05536	-2.18618	0.31949	-0.00211	2.37677	0.57673	0.02726	0.64397
0.06579	0.86216	1.42379	-0.05803	-2.16737	0.30958	-0.00209	2.31615	0.57795	0.02690	0.64696
0.06734	0.77174	1.41564	-0.06065	-2.14458	0.29855	-0.00209	2.23886	0.58011	0.02679	0.64818
0.06893	0.68545	1.40849	-0.06335	-2.12350	0.28871	-0.00209	2.16889	0.58199	0.02689	0.64793
0.07055	0.61458	1.40280	-0.06616	-2.10678	0.28183	-0.00210	2.11580	0.58305	0.02714	0.64676
0.07221	0.56149	1.39863	-0.06898	-2.09493	0.27920	-0.00211	2.08140	0.58314	0.02743	0.64545
0.07391	0.52474	1.39598	-0.07167	-2.08760	0.28075	-0.00212	2.06375	0.58239	0.02769	0.64460
0.07565	0.49928	1.39491	-0.07411	-2.08387	0.28544	-0.00214	2.05753	0.58118	0.02789	0.64436
0.07743	0.47561	1.39531	-0.07626	-2.08167	0.29150	-0.00215	2.05477	0.58006	0.02802	0.64472
0.07925	0.44854	1.39694	-0.07816	-2.07978	0.29785	-0.00217	2.05073	0.57930	0.02805	0.64574
0.08111	0.41539	1.39919	-0.07983	-2.07735	0.30374	-0.00219	2.04170	0.57901	0.02797	0.64746
0.08302	0.37941	1.40115	-0.08144	-2.07427	0.30844	-0.00220	2.02899	0.57892	0.02777	0.64977
0.08498	0.34913	1.40202	-0.08311	-2.07151	0.31173	-0.00221	2.01910	0.57850	0.02749	0.65250
0.08697	0.33496	1.40177	-0.08490	-2.07104	0.31382	-0.00219	2.02055	0.57721	0.02717	0.65540
0.08902	0.34013	1.40092	-0.08684	-2.07393	0.31531	-0.00217	2.03665	0.57493	0.02694	0.65764
0.09112	0.36670	1.39991	-0.08896	-2.08088	0.31699	-0.00214	2.07079	0.57155	0.02684	0.65928
0.09326	0.41008	1.39873	-0.09126	-2.09084	0.31956	-0.00209	2.12129	0.56722	0.02679	0.66089
0.09545	0.46857	1.39717	-0.09376	-2.10312	0.32428	-0.00205	2.18962	0.56186	0.02667	0.66325
0.09770	0.52877	1.39514	-0.09641	-2.11504	0.33198	-0.00202	2.26629	0.55603	0.02648	0.66648
0.10000	0.58965	1.39290	-0.09906	-2.12660	0.34350	-0.00201	2.35104	0.54981	0.02621	0.67036
0.10235	0.64706	1.39069	-0.10162	-2.13720	0.35838	-0.00201	2.44010	0.54349	0.02594	0.67439
0.10476	0.69225	1.38863	-0.10401	-2.14532	0.37540	-0.00202	2.52360	0.53760	0.02573	0.67782
0.10723	0.71884	1.38655	-0.10631	-2.14972	0.39228	-0.00205	2.59212	0.53256	0.02562	0.68015
0.10975	0.73355	1.38432	-0.10868	-2.15165	0.40754	-0.00208	2.64955	0.52812	0.02559	0.68143
0.11233	0.74774	1.38199	-0.11130	-2.15333	0.42070	-0.00210	2.70611	0.52381	0.02560	0.68213
0.11498	0.76354	1.37958	-0.11411	-2.15523	0.43198	-0.00211	2.76418	0.51955	0.02557	0.68299
0.11768	0.79025	1.37747	-0.11702	-2.15948	0.44258	-0.00212	2.83307	0.51497	0.02545	0.68449
0.12045	0.82253	1.37583	-0.11996	-2.16523	0.45263	-0.00212	2.90787	0.51034	0.02524	0.68665
0.12328	0.86027	1.37505	-0.12287	-2.17275	0.46222	-0.00212	2.98937	0.50573	0.02495	0.68930
0.12619	0.90306	1.37529	-0.12566	-2.18215	0.47178	-0.00211	3.07796	0.50114	0.02461	0.69232
0.12916	0.95124	1.37631	-0.12829	-2.19329	0.48186	-0.00210	3.17503	0.49648	0.02417	0.69585
0.13219	1.00180	1.37747	-0.13076	-2.20497	0.49237	-0.00210	3.27865	0.49174	0.02362	0.70006
0.13531	1.05580	1.37858	-0.13306	-2.21721	0.50374	-0.00210	3.39126	0.48678	0.02302	0.70449
0.13849	1.11643	1.37968	-0.13532	-2.23066	0.51607	-0.00209	3.51609	0.48154	0.02243	0.70872
0.14175	1.17006	1.38040	-0.13753	-2.24250	0.52891	-0.00210	3.63582	0.47653	0.02187	0.71259
0.14508	1.20538	1.38059	-0.13966	-2.25053	0.54182	-0.00210	3.73487	0.47219	0.02142	0.71567
0.14850	1.21008	1.38006	-0.14165	-2.25214	0.55290	-0.00212	3.79627	0.46900	0.02107	0.71792
0.15199	1.18262	1.37869	-0.14358	-2.24688	0.56115	-0.00214	3.81697	0.46699	0.02075	0.71988
0.15557	1.12441	1.37638	-0.14552	-2.23493	0.56643	-0.00216	3.79785	0.46609	0.02040	0.72205
0.15923	1.04338	1.37330	-0.14754	-2.21795	0.56984	-0.00219	3.74855	0.46601	0.01999	0.72478
0.16298	0.93587	1.36964	-0.14970	-2.19549	0.57080	-0.00221	3.66296	0.46700	0.01955	0.72791
0.16681	0.81076	1.36584	-0.15197	-2.16976	0.56956	-0.00224	3.55144	0.46886	0.01904	0.73167
0.17074	0.66840	1.36192	-0.15423	-2.14087	0.56579	-0.00227	3.41529	0.47163	0.01847	0.73609
0.17475	0.52106	1.35838	-0.15649	-2.11166	0.55953	-0.00229	3.26930	0.47500	0.01780	0.74146
0.17887	0.38332	1.35586	-0.15880	-2.08544	0.55132	-0.00229	3.13258	0.47843	0.01689	0.74863
0.18307	0.24378	1.35377	-0.16108	-2.05944	0.53985	-0.00229	2.99280	0.48231	0.01574	0.75764
0.18738	0.10671	1.35240	-0.16334	-2.03491	0.52609	-0.00229	2.85494	0.48647	0.01444	0.76780
0.19179	-0.02717	1.35190	-0.16565	-2.01217	0.51201	-0.00228	2.72122	0.49080	0.01317	0.77793
0.19631	-0.16761	1.35170	-0.16799	-1.98877	0.49788	-0.00227	2.58269	0.49555	0.01213	0.78652
0.20092	-0.31297	1.35196	-0.17032	-1.96524	0.48368	-0.00227	2.44288	0.50066	0.01119	0.79438
0.20565	-0.46871	1.35214	-0.17263	-1.94014	0.46861	-0.00227	2.29696	0.50626	0.01035	0.80137
0.21049	-0.63084	1.35225	-0.17487	-1.91425	0.45380	-0.00227	2.15149	0.51207	0.00968	0.80715
0.21544	-0.79756	1.35209	-0.17719	-1.88745	0.43967	-0.00228	2.00921	0.51800	0.00909	0.81237
0.22051	-0.96156	1.35197	-0.17964	-1.86133	0.42744	-0.00229	1.87802	0.52366	0.00854	0.81743
0.22570	-1.11821	1.35237	-0.18221	-1.83724	0.41651	-0.00231	1.76156	0.52885	0.00804	0.82213
0.23101	-1.26641	1.35262	-0.18494	-1.81488	0.40475	-0.00232	1.65858	0.53344	0.00752	0.82710
0.23645	-1.41468	1.35219	-0.18781	-1.79199	0.39146	-0.00233	1.56076	0.53784	0.00696	0.83230
0.24201	-1.56269	1.35114	-0.19084	-1.76872	0.37748	-0.00233	1.46794	0.54204	0.00630	0.83822
0.24771	-1.70699	1.34988	-0.19403	-1.74606	0.36391	-0.00233	1.38368	0.54576	0.00553	0.84478
0.25354	-1.84557	1.34864	-0.19741	-1.72469	0.34928	-0.00233	1.30872	0.54896	0.00482	0.85079
0.25950	-1.98109	1.34731	-0.20109	-1.70403	0.33286	-0.00231	1.23974	0.55182	0.00427	0.85574
0.26561	-2.12292	1.34531	-0.20496	-1.68154	0.31514	-0.00230	1.16980	0.55484	0.00379	0.86015
0.27186	-2.27125	1.34303	-0.20901	-1.65755	0.29641	-0.00228	1.09903	0.55815	0.00341	0.86372
0.27826	-2.42731	1.34050	-0.21327	-1.63173	0.27610	-0.00226	1.02690	0.56189	0.00312	0.86664
0.28480	-2.58912	1.33744	-0.21773	-1.60410	0.25468	-0.00225	0.95491	0.56595	0.00287	0.86919
0.29150	-2.75210	1.33452	-0.22227	-1.57628	0.23429	-0.00223	0.88701	0.56994	0.00275	0.87062
0.29836	-2.91354	1.33194	-0.22678	-1.54906	0.21640	-0.00223	0.82509	0.57363	0.00264	0.87157

0.30539	-3.06856	1.32993	-0.23137	-1.52373	0.20149	-0.00223	0.77134	0.57661	0.00254	0.87202
0.31257	-3.21134	1.32870	-0.23615	-1.50184	0.19038	-0.00224	0.72829	0.57837	0.00268	0.87048
0.31993	-3.34487	1.32745	-0.24120	-1.48197	0.18152	-0.00225	0.69270	0.57900	0.00276	0.86914
0.32745	-3.46956	1.32806	-0.24624	-1.46594	0.17797	-0.00227	0.66552	0.57870	0.00328	0.86417
0.33517	-3.58667	1.32887	-0.25149	-1.45186	0.17460	-0.00228	0.64396	0.57744	0.00403	0.85706
0.34304	-3.69609	1.33080	-0.25690	-1.44043	0.17649	-0.00232	0.62902	0.57524	0.00500	0.84813
0.35112	-3.79726	1.33385	-0.26252	-1.43194	0.18185	-0.00235	0.62102	0.57195	0.00637	0.83631
0.35938	-3.89177	1.33749	-0.26822	-1.42564	0.18728	-0.00238	0.61805	0.56782	0.00805	0.82224
0.36784	-3.98143	1.34136	-0.27402	-1.42069	0.19237	-0.00241	0.61945	0.56282	0.00983	0.80731
0.37649	-4.06965	1.34533	-0.27980	-1.41613	0.19684	-0.00243	0.62348	0.55730	0.01160	0.79225
0.38536	-4.15704	1.34900	-0.28564	-1.41136	0.19976	-0.00244	0.62914	0.55138	0.01324	0.77804
0.39442	-4.24375	1.35256	-0.29148	-1.40644	0.20264	-0.00246	0.63674	0.54508	0.01471	0.76507
0.40370	-4.32925	1.35598	-0.29729	-1.40154	0.20528	-0.00247	0.64704	0.53819	0.01607	0.75283
0.41321	-4.41199	1.35929	-0.30306	-1.39707	0.20817	-0.00248	0.66087	0.53065	0.01727	0.74180
0.42292	-4.49133	1.36242	-0.30883	-1.39305	0.21166	-0.00249	0.67847	0.52246	0.01831	0.73203
0.43288	-4.56843	1.36576	-0.31457	-1.38963	0.21646	-0.00250	0.70007	0.51371	0.01921	0.72338
0.44307	-4.64363	1.36936	-0.32020	-1.38684	0.22272	-0.00251	0.72539	0.50453	0.02005	0.71541
0.45349	-4.71761	1.37305	-0.32570	-1.38446	0.23031	-0.00253	0.75376	0.49507	0.02085	0.70798
0.46417	-4.79170	1.37697	-0.33103	-1.38229	0.23900	-0.00255	0.78451	0.48550	0.02162	0.70108
0.47508	-4.86762	1.38132	-0.33616	-1.38013	0.24835	-0.00257	0.81678	0.47601	0.02236	0.69462
0.48626	-4.94581	1.38598	-0.34112	-1.37777	0.25796	-0.00259	0.84972	0.46673	0.02310	0.68856
0.49771	-5.02537	1.39074	-0.34592	-1.37523	0.26770	-0.00261	0.88331	0.45766	0.02384	0.68295
0.50942	-5.10624	1.39576	-0.35055	-1.37265	0.27754	-0.00263	0.91807	0.44872	0.02455	0.67787
0.52140	-5.18886	1.40123	-0.35497	-1.37010	0.28739	-0.00266	0.95411	0.43994	0.02521	0.67335
0.53367	-5.27253	1.40706	-0.35923	-1.36766	0.29725	-0.00268	0.99170	0.43129	0.02582	0.66944
0.54624	-5.35605	1.41298	-0.36336	-1.36536	0.30709	-0.00270	1.03098	0.42275	0.02637	0.66617
0.55910	-5.43948	1.41902	-0.36736	-1.36320	0.31687	-0.00272	1.07207	0.41431	0.02685	0.66349
0.57225	-5.52404	1.42545	-0.37120	-1.36115	0.32656	-0.00274	1.11476	0.40602	0.02727	0.66126
0.58569	-5.61011	1.43233	-0.37484	-1.35919	0.33616	-0.00276	1.15885	0.39791	0.02762	0.65938
0.59948	-5.69743	1.43944	-0.37836	-1.35724	0.34568	-0.00278	1.20421	0.38996	0.02794	0.65781
0.61357	-5.78491	1.44653	-0.38176	-1.35524	0.35503	-0.00280	1.25029	0.38222	0.02823	0.65660
0.62802	-5.87359	1.45373	-0.38504	-1.35316	0.36422	-0.00282	1.29700	0.37467	0.02847	0.65576
0.64280	-5.96436	1.46131	-0.38816	-1.35101	0.37322	-0.00284	1.34394	0.36737	0.02866	0.65532
0.65794	-6.05786	1.46938	-0.39112	-1.34876	0.38203	-0.00286	1.39088	0.36034	0.02880	0.65529
0.67340	-6.15304	1.47770	-0.39393	-1.34639	0.39057	-0.00287	1.43732	0.35358	0.02889	0.65571
0.68927	-6.24943	1.48603	-0.39666	-1.34386	0.39885	-0.00289	1.48333	0.34707	0.02895	0.65666
0.70547	-6.34646	1.49430	-0.39929	-1.34116	0.40680	-0.00291	1.52832	0.34084	0.02898	0.65800
0.72207	-6.44546	1.50280	-0.40181	-1.33832	0.41451	-0.00292	1.57252	0.33485	0.02898	0.65949
0.73910	-6.54715	1.51179	-0.40417	-1.33543	0.42205	-0.00294	1.61598	0.32912	0.02895	0.66084
0.75649	-6.65117	1.52123	-0.40638	-1.33248	0.42937	-0.00296	1.65828	0.32367	0.02889	0.66170
0.77429	-6.75694	1.53091	-0.40847	-1.32943	0.43647	-0.00297	1.69928	0.31848	0.02885	0.66170
0.79246	-6.86314	1.54054	-0.41047	-1.32627	0.44327	-0.00299	1.73859	0.31356	0.02884	0.66055
0.81116	-6.97060	1.55014	-0.41241	-1.32297	0.44986	-0.00300	1.77648	0.30884	0.02887	0.65840
0.83022	-7.07880	1.55981	-0.41424	-1.31960	0.45621	-0.00302	1.81250	0.30438	0.02892	0.65560
0.84976	-7.18926	1.56987	-0.41594	-1.31620	0.46244	-0.00303	1.84703	0.30015	0.02895	0.65251
0.86972	-7.30185	1.58039	-0.41748	-1.31282	0.46856	-0.00305	1.88002	0.29616	0.02894	0.64955
0.89023	-7.41701	1.59138	-0.41889	-1.30943	0.47461	-0.00306	1.91164	0.29237	0.02890	0.64717
0.91116	-7.53280	1.60250	-0.42020	-1.30606	0.48056	-0.00307	1.94176	0.28879	0.02883	0.64581
0.93257	-7.64871	1.61356	-0.42143	-1.30270	0.48641	-0.00309	1.97049	0.28538	0.02874	0.64553
0.95456	-7.76482	1.62454	-0.42260	-1.29935	0.49220	-0.00310	1.99801	0.28213	0.02862	0.64628
0.97704	-7.88098	1.63549	-0.42368	-1.29605	0.49794	-0.00311	2.02427	0.27904	0.02848	0.64804
1.00000	-7.99786	1.64662	-0.42465	-1.29284	0.50368	-0.00312	2.04939	0.27613	0.02830	0.65076
1.02354	-8.11653	1.65816	-0.42547	-1.28974	0.50947	-0.00314	2.07357	0.27337	0.02806	0.65437
1.04767	-8.23709	1.67017	-0.42615	-1.28677	0.51536	-0.00315	2.09695	0.27076	0.02777	0.65874
1.07227	-8.35854	1.68249	-0.42668	-1.28393	0.52129	-0.00316	2.11951	0.26830	0.02743	0.66371
1.09745	-8.48063	1.69499	-0.42711	-1.28121	0.52726	-0.00317	2.14130	0.26598	0.02708	0.66914
1.12334	-8.60322	1.70752	-0.42746	-1.27855	0.53328	-0.00319	2.16226	0.26376	0.02671	0.67494
1.14982	-8.72527	1.71989	-0.42773	-1.27595	0.53927	-0.00320	2.18216	0.26167	0.02636	0.68099
1.17675	-8.84615	1.73205	-0.42794	-1.27343	0.54521	-0.00321	2.20085	0.25971	0.02601	0.68713
1.20453	-8.96806	1.74427	-0.42805	-1.27096	0.55120	-0.00322	2.21866	0.25785	0.02565	0.69334
1.23289	-9.09036	1.75659	-0.42805	-1.26857	0.55719	-0.00323	2.23540	0.25613	0.02529	0.69941
1.26183	-9.21353	1.76916	-0.42791	-1.26628	0.56320	-0.00324	2.25112	0.25453	0.02490	0.70533
1.29149	-9.33840	1.78212	-0.42762	-1.26410	0.56926	-0.00325	2.26605	0.25305	0.02448	0.71121
1.32188	-9.46485	1.79544	-0.42717	-1.26202	0.57538	-0.00326	2.28026	0.25168	0.02403	0.71713
1.35300	-9.59248	1.80905	-0.42659	-1.26004	0.58154	-0.00327	2.29378	0.25042	0.02355	0.72318
1.38485	-9.72074	1.82279	-0.42590	-1.25815	0.58770	-0.00328	2.30650	0.24926	0.02305	0.72944
1.41743	-9.84904	1.83652	-0.42511	-1.25631	0.59384	-0.00329	2.31836	0.24819	0.02254	0.73604
1.45075	-9.97694	1.85012	-0.42424	-1.25453	0.59994	-0.00330	2.32929	0.24720	0.02203	0.74300
1.48500	-10.10498	1.86363	-0.42330	-1.25278	0.60601	-0.00331	2.33934	0.24630	0.02153	0.75036
1.51999	-10.23240	1.87696	-0.42227	-1.25108	0.61203	-0.00332	2.34845	0.24548	0.02103	0.75805
1.55569	-10.35940	1.89019	-0.42114	-1.24944	0.61799	-0.00333	2.35668	0.24475	0.02052	0.76607
1.59236	-10.48712	1.90349	-0.41990	-1.24786	0.62395	-0.00334	2.36418	0.24410	0.02002	0.77444
1.62973	-10.61501	1.91687	-0.41854	-1.24637	0.62988	-0.00334	2.37103	0.24352	0.01949	0.78309
1.66806	-10.74417	1.93050	-0.41704	-1.24496	0.63582	-0.00335	2.37741	0.24300	0.01896	0.79205
1.70736	-10.87469	1.94441	-0.41538	-1.24365	0.64179	-0.00336	2.38347	0.24255	0.01840	0.80132
1.74764	-11.00651	1.95861	-0.41358	-1.24243	0.64778	-0.00337	2.38931	0.24215	0.01783	0.81087
1.78859	-11.13839	1.97293	-0.41165	-1.24131	0.65374	-0.00337	2.39495	0.24179	0.01725	0.82060
1.83083	-11.27204	1.98754	-0.40958	-1.24027	0.65975	-0.00338	2.40052	0.24146	0.01666	0.83065
1.87371	-11.40500	2.00211	-0.40742	-1.23931	0.66570	-0.00338	2.40595	0.24116	0.01608	0.84082
1.91791	-11.53900	2.01679	-0.40513	-1.23842	0.67167	-0.00339	2.41133	0.24088	0.01552	0.85118
1.96309	-11.67264	2.03138	-0.40276	-1.23759	0.67759	-0.00340	2.41658	0.24061	0.01497	0.86154

2.00924	-11.80564	2.04582	-0.40030	-1.23682	0.68345	-0.00340	2.42166	0.24037	0.01445	0.87178
2.05634	-11.93779	2.06008	-0.39777	-1.23610	0.68925	-0.00340	2.42660	0.24014	0.01396	0.88174
2.10482	-12.07020	2.07426	-0.39514	-1.23543	0.69503	-0.00341	2.43146	0.23992	0.01349	0.89135
2.15424	-12.20170	2.08826	-0.39244	-1.23482	0.70073	-0.00341	2.43620	0.23972	0.01305	0.90035
2.20507	-12.33357	2.10223	-0.38962	-1.23427	0.70642	-0.00341	2.44088	0.23953	0.01263	0.90872
2.25683	-12.46469	2.11609	-0.38672	-1.23378	0.71204	-0.00342	2.44550	0.23935	0.01223	0.91644
2.31000	-12.59641	2.13000	-0.38370	-1.23336	0.71764	-0.00342	2.45018	0.23918	0.01185	0.92368
2.36463	-12.72885	2.14400	-0.38055	-1.23302	0.72324	-0.00342	2.45497	0.23901	0.01147	0.93054
2.42014	-12.86074	2.15799	-0.37732	-1.23276	0.72878	-0.00342	2.45987	0.23886	0.01111	0.93710
2.47709	-12.99340	2.17211	-0.37395	-1.23258	0.73431	-0.00342	2.46500	0.23871	0.01074	0.94356
2.53550	-13.12679	2.18637	-0.37046	-1.23248	0.73982	-0.00342	2.47038	0.23856	0.01037	0.95011
2.59471	-13.25938	2.20063	-0.36689	-1.23246	0.74527	-0.00343	2.47595	0.23842	0.01000	0.95678
2.65604	-13.39401	2.21513	-0.36316	-1.23253	0.75074	-0.00342	2.48191	0.23826	0.00962	0.96381
2.71887	-13.52897	2.22974	-0.35934	-1.23267	0.75619	-0.00342	2.48815	0.23811	0.00924	0.97114
2.78242	-13.66263	2.24424	-0.35546	-1.23288	0.76154	-0.00342	2.49460	0.23795	0.00888	0.97876
2.84819	-13.79779	2.25888	-0.35143	-1.23316	0.76688	-0.00342	2.50147	0.23777	0.00850	0.98692
2.91545	-13.93279	2.27355	-0.34736	-1.23350	0.77219	-0.00342	2.50852	0.23759	0.00814	0.99555
2.98329	-14.06568	2.28791	-0.34322	-1.23390	0.77734	-0.00342	2.51583	0.23740	0.00779	1.00445
3.05344	-14.19952	2.30238	-0.33903	-1.23434	0.78251	-0.00342	2.52333	0.23720	0.00746	1.01361
3.12598	-14.33450	2.31687	-0.33467	-1.23486	0.78763	-0.00341	2.53117	0.23699	0.00713	1.02286
3.19898	-14.46647	2.33101	-0.33038	-1.23539	0.79261	-0.00341	2.53900	0.23677	0.00682	1.03166
3.27439	-14.59946	2.34515	-0.32594	-1.23599	0.79754	-0.00340	2.54708	0.23655	0.00653	1.04000
3.35121	-14.73086	2.35905	-0.32152	-1.23661	0.80237	-0.00340	2.55520	0.23631	0.00626	1.04761
3.43053	-14.86326	2.37295	-0.31694	-1.23729	0.80715	-0.00339	2.56350	0.23608	0.00600	1.05484
3.51124	-14.99375	2.38659	-0.31242	-1.23798	0.81184	-0.00339	2.57181	0.23583	0.00577	1.06178
3.59324	-15.12322	2.39996	-0.30776	-1.23873	0.81638	-0.00338	2.58016	0.23560	0.00554	1.06883
3.67782	-15.25263	2.41340	-0.30320	-1.23948	0.82093	-0.00338	2.58855	0.23535	0.00532	1.07633
3.76506	-15.38287	2.42658	-0.29830	-1.24032	0.82533	-0.00337	2.59710	0.23512	0.00510	1.08479
3.85356	-15.51136	2.43989	-0.29370	-1.24114	0.82974	-0.00336	2.60550	0.23486	0.00490	1.09383
3.94477	-15.64000	2.45268	-0.28869	-1.24205	0.83394	-0.00336	2.61406	0.23464	0.00468	1.10363
4.03714	-15.76768	2.46579	-0.28394	-1.24294	0.83814	-0.00335	2.62243	0.23439	0.00449	1.11354
4.13223	-15.89446	2.47843	-0.27904	-1.24388	0.84221	-0.00334	2.63094	0.23416	0.00430	1.12360
4.23012	-16.02292	2.49118	-0.27388	-1.24490	0.84620	-0.00333	2.63936	0.23396	0.00410	1.13350
4.32900	-16.14849	2.50405	-0.26920	-1.24586	0.85021	-0.00332	2.64804	0.23368	0.00394	1.14252
4.43066	-16.27401	2.51608	-0.26388	-1.24694	0.85392	-0.00331	2.65623	0.23352	0.00374	1.15118
4.53515	-16.40127	2.52899	-0.25886	-1.24802	0.85775	-0.00330	2.66482	0.23329	0.00358	1.15907
4.64253	-16.52657	2.54150	-0.25395	-1.24911	0.86151	-0.00329	2.67369	0.23303	0.00342	1.16639
4.75059	-16.65063	2.55317	-0.24841	-1.25028	0.86491	-0.00329	2.68130	0.23293	0.00322	1.17326
4.86145	-16.77573	2.56605	-0.24354	-1.25143	0.86853	-0.00327	2.69038	0.23266	0.00308	1.17936
4.97760	-16.90054	2.57822	-0.23843	-1.25262	0.87203	-0.00326	2.69925	0.23243	0.00291	1.18526
5.09424	-17.02455	2.58965	-0.23264	-1.25389	0.87519	-0.00325	2.70628	0.23239	0.00271	1.19089
5.21376	-17.14953	2.60259	-0.22775	-1.25514	0.87861	-0.00324	2.71600	0.23209	0.00257	1.19583
5.33618	-17.27048	2.61438	-0.22283	-1.25637	0.88183	-0.00323	2.72517	0.23183	0.00241	1.20063
5.46150	-17.39256	2.62510	-0.21680	-1.25769	0.88470	-0.00322	2.73093	0.23189	0.00219	1.20567
5.58971	-17.51682	2.63763	-0.21163	-1.25903	0.88782	-0.00321	2.74022	0.23165	0.00204	1.21027
5.72082	-17.63681	2.64993	-0.20715	-1.26032	0.89092	-0.00319	2.75151	0.23123	0.00191	1.21477
5.85823	-17.75779	2.65995	-0.20099	-1.26167	0.89358	-0.00318	2.75612	0.23137	0.00168	1.22022
5.99520	-17.87950	2.67114	-0.19518	-1.26306	0.89625	-0.00317	2.76252	0.23137	0.00147	1.22551
6.13497	-18.00024	2.68403	-0.19079	-1.26445	0.89916	-0.00316	2.77556	0.23084	0.00137	1.23035
6.28141	-18.11703	2.69454	-0.18573	-1.26578	0.90176	-0.00314	2.78402	0.23066	0.00119	1.23590
6.42674	-18.23182	2.70321	-0.17929	-1.26710	0.90395	-0.00313	2.78469	0.23106	0.00092	1.24205
6.57895	-18.35342	2.71452	-0.17361	-1.26855	0.90641	-0.00312	2.79185	0.23099	0.00073	1.24800
6.73401	-18.47280	2.72745	-0.16954	-1.27003	0.90899	-0.00310	2.80806	0.23027	0.00066	1.25341
6.89180	-18.58254	2.73633	-0.16446	-1.27130	0.91116	-0.00309	2.81379	0.23025	0.00047	1.25965
7.05716	-18.69648	2.74365	-0.15752	-1.27259	0.91312	-0.00308	2.80921	0.23099	0.00015	1.26682
7.22022	-18.81098	2.75332	-0.15173	-1.27397	0.91516	-0.00307	2.81285	0.23114	-0.00007	1.27315
7.39098	-18.92972	2.76588	-0.14746	-1.27548	0.91739	-0.00305	2.82905	0.23042	-0.00014	1.27865
7.56430	-19.03660	2.77529	-0.14331	-1.27678	0.91936	-0.00304	2.84017	0.23002	-0.00026	1.28414
7.73994	-19.13607	2.77927	-0.13654	-1.27781	0.92097	-0.00303	2.82706	0.23123	-0.00063	1.29071
7.92393	-19.24444	2.78574	-0.12989	-1.27904	0.92265	-0.00302	2.81997	0.23207	-0.00095	1.29668
8.11030	-19.35615	2.79466	-0.12423	-1.28039	0.92442	-0.00301	2.82204	0.23229	-0.00117	1.30162
8.29876	-19.46937	2.80659	-0.12044	-1.28185	0.92629	-0.00299	2.83978	0.23144	-0.00121	1.30518
8.49618	-19.56612	2.81221	-0.11575	-1.28292	0.92786	-0.00298	2.83933	0.23176	-0.00142	1.30960
8.69565	-19.65059	2.81147	-0.10859	-1.28368	0.92898	-0.00298	2.81257	0.23380	-0.00190	1.31543
8.90472	-19.74631	2.81433	-0.10189	-1.28471	0.93014	-0.00297	2.79719	0.23510	-0.00229	1.32064
9.11577	-19.84321	2.81850	-0.09574	-1.28579	0.93132	-0.00296	2.78695	0.23606	-0.00262	1.32547
9.32836	-19.95269	2.82793	-0.09082	-1.28709	0.93292	-0.00295	2.79104	0.23609	-0.00279	1.32932
9.54198	-20.04756	2.83478	-0.08698	-1.28819	0.93435	-0.00293	2.79539	0.23605	-0.00292	1.33320
9.76563	-20.10404	2.82846	-0.08138	-1.28858	0.93454	-0.00293	2.76900	0.23791	-0.00337	1.33964
10.00000	-20.15933	2.82112	-0.07520	-1.28904	0.93428	-0.00293	2.74391	0.23967	-0.00387	1.34700

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Median stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 15 - 30 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	3.47990	2.38393	-0.09527	-3.77527	1.34843	-0.00018	17.85248	0.22642	-0.01258	0.48926
PGV	11.80221	1.60085	-0.14353	-4.00995	1.19727	-0.00009	22.25273	0.22644	-0.00196	0.46835
PGA	4.33222	1.53648	-0.07119	-3.06114	0.56962	-0.00117	7.51554	0.43622	-0.02444	0.77885
0.01000	4.40381	1.54460	-0.06930	-3.06873	0.55406	-0.00117	7.60713	0.43854	-0.00315	0.72210
0.01024	4.41685	1.54517	-0.06901	-3.07086	0.55345	-0.00117	7.62046	0.43858	-0.00318	0.72265
0.01048	4.43165	1.54578	-0.06869	-3.07330	0.55284	-0.00116	7.63609	0.43861	-0.00321	0.72320
0.01072	4.44857	1.54645	-0.06836	-3.07610	0.55222	-0.00116	7.65448	0.43862	-0.00325	0.72375
0.01097	4.46784	1.54719	-0.06799	-3.07931	0.55158	-0.00116	7.67594	0.43860	-0.00330	0.72432
0.01123	4.48963	1.54800	-0.06760	-3.08295	0.55091	-0.00116	7.70065	0.43856	-0.00335	0.72490
0.01150	4.51411	1.54889	-0.06717	-3.08706	0.55021	-0.00115	7.72883	0.43851	-0.00342	0.72550
0.01177	4.54145	1.54987	-0.06670	-3.09166	0.54946	-0.00115	7.76063	0.43843	-0.00349	0.72614
0.01205	4.57182	1.55096	-0.06619	-3.09676	0.54864	-0.00115	7.79624	0.43834	-0.00357	0.72683
0.01233	4.60531	1.55217	-0.06563	-3.10239	0.54775	-0.00114	7.83576	0.43824	-0.00366	0.72757
0.01262	4.64210	1.55351	-0.06501	-3.10856	0.54679	-0.00114	7.87940	0.43814	-0.00376	0.72837
0.01292	4.68285	1.55499	-0.06433	-3.11540	0.54572	-0.00113	7.92796	0.43802	-0.00387	0.72925
0.01322	4.72826	1.55666	-0.06358	-3.12301	0.54447	-0.00113	7.98237	0.43789	-0.00400	0.73023
0.01353	4.77767	1.55855	-0.06274	-3.13129	0.54303	-0.00112	8.04156	0.43778	-0.00413	0.73133
0.01385	4.82957	1.56066	-0.06180	-3.13994	0.54131	-0.00112	8.10280	0.43773	-0.00428	0.73256
0.01417	4.88311	1.56303	-0.06076	-3.14881	0.53931	-0.00111	8.16452	0.43778	-0.00445	0.73396
0.01451	4.93944	1.56567	-0.05959	-3.15807	0.53711	-0.00111	8.22880	0.43790	-0.00464	0.73560
0.01485	5.00000	1.56861	-0.05829	-3.16796	0.53474	-0.00110	8.29812	0.43806	-0.00486	0.73748
0.01520	5.06475	1.57192	-0.05686	-3.17852	0.53210	-0.00110	8.37199	0.43829	-0.00509	0.73959
0.01556	5.13345	1.57569	-0.05528	-3.18970	0.52894	-0.00110	8.44947	0.43863	-0.00533	0.74192
0.01592	5.20069	1.57979	-0.05353	-3.20041	0.52504	-0.00109	8.52258	0.43919	-0.00559	0.74462
0.01630	5.26000	1.58414	-0.05160	-3.20936	0.52047	-0.00109	8.58209	0.44008	-0.00591	0.74787
0.01668	5.31675	1.58896	-0.04948	-3.21766	0.51557	-0.00110	8.63613	0.44120	-0.00628	0.75165
0.01707	5.37364	1.59438	-0.04720	-3.22596	0.50997	-0.00110	8.68689	0.44255	-0.00664	0.75554
0.01748	5.41783	1.60019	-0.04472	-3.23189	0.50297	-0.00111	8.71350	0.44439	-0.00692	0.75901
0.01789	5.43615	1.60608	-0.04201	-3.23286	0.49455	-0.00112	8.69780	0.44690	-0.00709	0.76191
0.01831	5.42984	1.61223	-0.03911	-3.22927	0.48522	-0.00114	8.64249	0.45008	-0.00719	0.76459
0.01874	5.40445	1.61912	-0.03607	-3.22249	0.47512	-0.00116	8.55528	0.45389	-0.00731	0.76758
0.01918	5.35184	1.62686	-0.03285	-3.21121	0.46423	-0.00119	8.42467	0.45849	-0.00745	0.77090
0.01963	5.25922	1.63493	-0.02951	-3.19306	0.45242	-0.00122	8.23275	0.46407	-0.00751	0.77375
0.02009	5.13602	1.64249	-0.02615	-3.16935	0.44044	-0.00127	7.99887	0.47024	-0.00744	0.77572
0.02057	5.00343	1.64924	-0.02273	-3.14359	0.42958	-0.00132	7.76068	0.47640	-0.00733	0.77733
0.02105	4.86772	1.65559	-0.01922	-3.11722	0.41976	-0.00136	7.52609	0.48251	-0.00728	0.77929
0.02154	4.72774	1.66202	-0.01573	-3.09059	0.40986	-0.00141	7.28653	0.48879	-0.00724	0.78139
0.02205	4.58774	1.66891	-0.01234	-3.06500	0.39951	-0.00145	7.04494	0.49523	-0.00695	0.78190
0.02257	4.45376	1.67586	-0.00907	-3.04102	0.38924	-0.00148	6.81607	0.50152	-0.00640	0.78051
0.02310	4.31431	1.68143	-0.00602	-3.01530	0.37852	-0.00151	6.59003	0.50769	-0.00591	0.77926
0.02364	4.14280	1.68532	-0.00327	-2.98293	0.36629	-0.00155	6.32985	0.51442	-0.00560	0.77913
0.02420	3.93825	1.68917	-0.00067	-2.94516	0.35465	-0.00159	6.03526	0.52194	-0.00531	0.77918
0.02477	3.72888	1.69426	0.00195	-2.90791	0.34658	-0.00164	5.74552	0.52960	-0.00494	0.77871
0.02535	3.53187	1.69999	0.00467	-2.87380	0.34124	-0.00170	5.47863	0.53701	-0.00449	0.77758
0.02595	3.33308	1.70459	0.00751	-2.83915	0.33459	-0.00174	5.21061	0.54461	-0.00390	0.77526
0.02656	3.10598	1.70629	0.01034	-2.79771	0.32296	-0.00177	4.91050	0.55315	-0.00315	0.77176
0.02719	2.86533	1.70555	0.01282	-2.75189	0.30674	-0.00180	4.60377	0.56220	-0.00236	0.76809
0.02783	2.64932	1.70537	0.01488	-2.71041	0.28964	-0.00182	4.34005	0.57068	-0.00161	0.76457
0.02848	2.47417	1.70818	0.01673	-2.67820	0.27512	-0.00185	4.13587	0.57806	-0.00080	0.76052
0.02915	2.33121	1.71384	0.01853	-2.65428	0.26472	-0.00188	3.97386	0.58452	0.00010	0.75561
0.02984	2.21860	1.72001	0.02021	-2.63691	0.25972	-0.00191	3.84631	0.58984	0.00094	0.75111
0.03054	2.12923	1.72422	0.02176	-2.62270	0.26026	-0.00194	3.74596	0.59390	0.00162	0.74792
0.03126	2.04554	1.72595	0.02308	-2.60800	0.26293	-0.00196	3.65139	0.59743	0.00234	0.74465
0.03199	1.96054	1.72596	0.02387	-2.59221	0.26271	-0.00197	3.54807	0.60119	0.00326	0.73988
0.03275	1.87258	1.72490	0.02391	-2.57547	0.25646	-0.00197	3.43154	0.60555	0.00426	0.73428
0.03352	1.77308	1.72236	0.02329	-2.55573	0.24439	-0.00195	3.29767	0.61069	0.00508	0.72967
0.03430	1.65522	1.71757	0.02232	-2.53074	0.22897	-0.00192	3.14909	0.61647	0.00558	0.72733
0.03511	1.51293	1.71117	0.02157	-2.49961	0.21399	-0.00192	2.99086	0.62274	0.00573	0.72747
0.03594	1.35343	1.70496	0.02139	-2.46515	0.20297	-0.00193	2.83441	0.62916	0.00562	0.72933
0.03678	1.20698	1.69993	0.02154	-2.43385	0.19717	-0.00196	2.70238	0.63474	0.00545	0.73137
0.03765	1.10535	1.69628	0.02160	-2.41193	0.19685	-0.00199	2.61448	0.63836	0.00554	0.73138
0.03854	1.06433	1.69439	0.02132	-2.40282	0.20221	-0.00201	2.57812	0.63946	0.00615	0.72791
0.03944	1.08922	1.69469	0.02070	-2.40759	0.21259	-0.00203	2.59691	0.63789	0.00719	0.72173
0.04037	1.15347	1.69662	0.02000	-2.42044	0.22476	-0.00204	2.65109	0.63480	0.00835	0.71497
0.04132	1.21100	1.69847	0.01926	-2.43155	0.23449	-0.00204	2.70041	0.63218	0.00932	0.70968
0.04229	1.21229	1.69874	0.01849	-2.43112	0.23935	-0.00205	2.69952	0.63199	0.00987	0.70746
0.04329	1.13435	1.69653	0.01774	-2.41469	0.23940	-0.00207	2.62729	0.63505	0.00992	0.70884
0.04431	0.99065	1.69182	0.01704	-2.38493	0.23562	-0.00209	2.49621	0.64093	0.00963	0.71262
0.04535	0.81195	1.68520	0.01642	-2.34785	0.22871	-0.00210	2.33520	0.64855	0.00936	0.71631

0.04642	0.63615	1.67713	0.01575	-2.31041	0.21935	-0.00211	2.17756	0.65636	0.00944	0.71740
0.04751	0.48174	1.66735	0.01492	-2.27548	0.20829	-0.00211	2.03855	0.66341	0.00996	0.71517
0.04863	0.35261	1.65502	0.01365	-2.24283	0.19644	-0.00210	1.91992	0.66937	0.01066	0.71124
0.04977	0.25947	1.64037	0.01159	-2.21430	0.18557	-0.00209	1.82881	0.67356	0.01121	0.70798
0.05094	0.21003	1.62608	0.00893	-2.19329	0.17882	-0.00208	1.77410	0.67537	0.01152	0.70602
0.05214	0.19828	1.61580	0.00630	-2.18179	0.17890	-0.00208	1.75637	0.67491	0.01183	0.70401
0.05337	0.21518	1.61124	0.00401	-2.17998	0.18671	-0.00211	1.77035	0.67261	0.01233	0.70074
0.05462	0.24641	1.61153	0.00197	-2.18508	0.20071	-0.00214	1.80220	0.66940	0.01301	0.69634
0.05591	0.27937	1.61393	-0.00015	-2.19299	0.21731	-0.00218	1.83599	0.66615	0.01377	0.69159
0.05722	0.30742	1.61578	-0.00259	-2.20042	0.23295	-0.00222	1.86193	0.66329	0.01456	0.68684
0.05857	0.33249	1.61560	-0.00539	-2.20634	0.24524	-0.00223	1.88038	0.66065	0.01541	0.68189
0.05995	0.34926	1.61367	-0.00822	-2.20978	0.25349	-0.00224	1.89020	0.65837	0.01631	0.67665
0.06136	0.34882	1.61080	-0.01072	-2.20949	0.25848	-0.00224	1.88886	0.65673	0.01722	0.67110
0.06280	0.32169	1.60628	-0.01290	-2.20272	0.25962	-0.00225	1.87078	0.65613	0.01816	0.66530
0.06428	0.26769	1.59851	-0.01511	-2.18773	0.25526	-0.00225	1.83417	0.65667	0.01899	0.66044
0.06579	0.19523	1.58764	-0.01749	-2.16601	0.24568	-0.00223	1.78445	0.65811	0.01950	0.65822
0.06734	0.12174	1.57518	-0.02008	-2.14211	0.23393	-0.00221	1.73444	0.65968	0.01956	0.65932
0.06893	0.05471	1.56260	-0.02289	-2.11891	0.22270	-0.00219	1.68951	0.66099	0.01930	0.66288
0.07055	-0.00574	1.55124	-0.02594	-2.09800	0.21286	-0.00217	1.64878	0.66216	0.01890	0.66739
0.07221	-0.06715	1.54180	-0.02905	-2.07890	0.20426	-0.00215	1.60626	0.66368	0.01842	0.67210
0.07391	-0.13603	1.53411	-0.03203	-2.06038	0.19719	-0.00213	1.55768	0.66585	0.01781	0.67706
0.07565	-0.21157	1.52746	-0.03485	-2.04196	0.19240	-0.00213	1.50433	0.66852	0.01714	0.68204
0.07743	-0.29841	1.52124	-0.03746	-2.02217	0.19021	-0.00213	1.44415	0.67183	0.01649	0.68658
0.07925	-0.40488	1.51509	-0.03976	-1.99894	0.19011	-0.00215	1.37352	0.67622	0.01589	0.69051
0.08111	-0.52377	1.50906	-0.04175	-1.97334	0.19187	-0.00218	1.29958	0.68119	0.01538	0.69365
0.08302	-0.64128	1.50332	-0.04352	-1.94781	0.19588	-0.00223	1.23279	0.68580	0.01504	0.69547
0.08498	-0.74508	1.49802	-0.04510	-1.92484	0.20386	-0.00229	1.18074	0.68909	0.01490	0.69595
0.08697	-0.82463	1.49337	-0.04656	-1.90676	0.21761	-0.00237	1.14823	0.69033	0.01486	0.69576
0.08902	-0.87232	1.48961	-0.04813	-1.89552	0.23763	-0.00245	1.13758	0.68908	0.01489	0.69540
0.09112	-0.88464	1.48704	-0.04994	-1.89220	0.26283	-0.00254	1.14953	0.68529	0.01499	0.69519
0.09326	-0.87247	1.48543	-0.05199	-1.89463	0.29000	-0.00261	1.17673	0.67990	0.01514	0.69509
0.09545	-0.84602	1.48410	-0.05430	-1.90032	0.31484	-0.00267	1.21128	0.67391	0.01531	0.69534
0.09770	-0.81367	1.48254	-0.05703	-1.90726	0.33326	-0.00270	1.24600	0.66815	0.01535	0.69661
0.10000	-0.78088	1.48065	-0.06031	-1.91436	0.34257	-0.00270	1.27589	0.66320	0.01527	0.69870
0.10235	-0.75632	1.47799	-0.06418	-1.91953	0.34071	-0.00266	1.29452	0.65960	0.01528	0.70023
0.10476	-0.74085	1.47395	-0.06858	-1.92186	0.32761	-0.00258	1.30203	0.65721	0.01549	0.70035
0.10723	-0.73519	1.46840	-0.07330	-1.92094	0.30585	-0.00248	1.29991	0.65574	0.01585	0.69939
0.10975	-0.73352	1.46186	-0.07819	-1.91838	0.28008	-0.00238	1.29396	0.65455	0.01623	0.69825
0.11233	-0.72411	1.45521	-0.08319	-1.91720	0.25486	-0.00227	1.29388	0.65269	0.01644	0.69809
0.11498	-0.70118	1.44916	-0.08825	-1.91920	0.23340	-0.00217	1.30540	0.64959	0.01634	0.69965
0.11768	-0.67312	1.44403	-0.09315	-1.92310	0.21704	-0.00209	1.32458	0.64567	0.01591	0.70295
0.12045	-0.65622	1.43981	-0.09761	-1.92582	0.20620	-0.00203	1.34165	0.64189	0.01520	0.70765
0.12328	-0.66467	1.43635	-0.10158	-1.92452	0.20095	-0.00200	1.34711	0.63910	0.01424	0.71362
0.12619	-0.69696	1.43378	-0.10509	-1.91963	0.20108	-0.00200	1.34066	0.63736	0.01315	0.72039
0.12916	-0.75194	1.43224	-0.10821	-1.91158	0.20495	-0.00201	1.32154	0.63684	0.01208	0.72699
0.13219	-0.83039	1.43184	-0.11088	-1.90036	0.21004	-0.00204	1.28836	0.63784	0.01120	0.73226
0.13531	-0.92865	1.43265	-0.11312	-1.88664	0.21483	-0.00207	1.24402	0.64022	0.01061	0.73551
0.13849	-1.03214	1.43464	-0.11510	-1.87299	0.22012	-0.00211	1.19903	0.64303	0.01022	0.73729
0.14175	-1.11834	1.43771	-0.11711	-1.86343	0.22855	-0.00215	1.16887	0.64456	0.00984	0.73905
0.14508	-1.17287	1.44149	-0.11947	-1.86025	0.24269	-0.00219	1.16274	0.64357	0.00931	0.74194
0.14850	-1.19276	1.44527	-0.12247	-1.86330	0.26271	-0.00225	1.18188	0.63978	0.00863	0.74617
0.15199	-1.17763	1.44831	-0.12634	-1.87200	0.28677	-0.00230	1.22597	0.63329	0.00782	0.75143
0.15557	-1.12987	1.45030	-0.13110	-1.88578	0.31251	-0.00234	1.29297	0.62455	0.00699	0.75706
0.15923	-1.05836	1.45124	-0.13654	-1.90326	0.33781	-0.00237	1.37677	0.61446	0.00625	0.76202
0.16298	-0.97014	1.45132	-0.14242	-1.92345	0.36157	-0.00238	1.47277	0.60370	0.00572	0.76552
0.16681	-0.87478	1.45062	-0.14846	-1.94463	0.38309	-0.00238	1.57481	0.59290	0.00535	0.76772
0.17074	-0.77600	1.44928	-0.15446	-1.96600	0.40243	-0.00237	1.68135	0.58229	0.00501	0.76970
0.17475	-0.67763	1.44742	-0.16026	-1.98675	0.41999	-0.00235	1.79083	0.57202	0.00457	0.77256
0.17887	-0.58715	1.44522	-0.16575	-2.00545	0.43608	-0.00233	1.89846	0.56243	0.00399	0.77666
0.18307	-0.51278	1.44290	-0.17079	-2.02062	0.45050	-0.00231	1.99738	0.55390	0.00334	0.78154
0.18738	-0.46700	1.44060	-0.17530	-2.02989	0.46251	-0.00229	2.07583	0.54704	0.00274	0.78643
0.19179	-0.46045	1.43839	-0.17921	-2.03125	0.47193	-0.00229	2.12261	0.54233	0.00226	0.79077
0.19631	-0.49979	1.43626	-0.18245	-2.02338	0.47888	-0.00231	2.12975	0.54006	0.00190	0.79434
0.20092	-0.58095	1.43412	-0.18508	-2.00697	0.48366	-0.00234	2.09981	0.54004	0.00159	0.79767
0.20565	-0.69786	1.43186	-0.18716	-1.98309	0.48644	-0.00238	2.03753	0.54205	0.00122	0.80137
0.21049	-0.84011	1.42954	-0.18880	-1.95385	0.48782	-0.00243	1.95275	0.54567	0.00074	0.80566
0.21544	-0.99368	1.42735	-0.19009	-1.92227	0.48907	-0.00249	1.85838	0.55025	0.00018	0.81040
0.22051	-1.14593	1.42547	-0.19122	-1.89111	0.49102	-0.00255	1.76501	0.55518	-0.00041	0.81527
0.22570	-1.28519	1.42397	-0.19235	-1.86275	0.49455	-0.00260	1.68233	0.55979	-0.00105	0.82041
0.23101	-1.40630	1.42282	-0.19356	-1.83822	0.50035	-0.00266	1.61423	0.56366	-0.00174	0.82598
0.23645	-1.50797	1.42189	-0.19488	-1.81765	0.50802	-0.00271	1.56175	0.56658	-0.00253	0.83229
0.24201	-1.59174	1.42098	-0.19636	-1.80044	0.51625	-0.00275	1.52337	0.56855	-0.00343	0.83943
0.24771	-1.66341	1.41989	-0.19804	-1.78527	0.52341	-0.00279	1.49425	0.56989	-0.00436	0.84702
0.25354	-1.72443	1.41856	-0.19997	-1.77190	0.52867	-0.00282	1.47312	0.57061	-0.00519	0.85406
0.25950	-1.77927	1.41706	-0.20210	-1.75965	0.53186	-0.00283	1.45650	0.57095	-0.00575	0.85941
0.26561	-1.83064	1.41558	-0.20447	-1.74834	0.53310	-0.00284	1.44197	0.57109	-0.00591	0.86214
0.27186	-1.88074	1.41417	-0.20704	-1.73778	0.53203	-0.00284	1.42754	0.57115	-0.00561	0.86175
0.27826	-1.93381	1.41268	-0.20984	-1.72702	0.52773	-0.00283	1.40930	0.57144	-0.00489	0.85855
0.28480	-1.98867	1.41113	-0.21288	-1.71632	0.52010	-0.00280	1.38813	0.57191	-0.00392	0.85364
0.29150	-2.04448	1.40964	-0.21608	-1.70588	0.50927	-0.00277	1.36556	0.57245	-0.00288	0.84830
0.29836	-2.09920	1.40844	-0.21935	-1.69634	0.49615	-0.00272	1.34427	0.57285	-0.00187	0.84324

0.30539	-2.14979	1.40784	-0.22263	-1.68857	0.48178	-0.00267	1.32772	0.57281	-0.00095	0.83887
0.31257	-2.19124	1.40804	-0.22600	-1.68380	0.46683	-0.00261	1.32025	0.57196	-0.00015	0.83559
0.31993	-2.22341	1.40935	-0.22943	-1.68243	0.45239	-0.00255	1.32303	0.57016	0.00057	0.83295
0.32745	-2.25517	1.41183	-0.23277	-1.68278	0.43902	-0.00249	1.33016	0.56792	0.00127	0.83040
0.33517	-2.29363	1.41517	-0.23607	-1.68320	0.42603	-0.00244	1.33563	0.56575	0.00188	0.82832
0.34304	-2.34002	1.41903	-0.23941	-1.68313	0.41319	-0.00239	1.33813	0.56367	0.00232	0.82741
0.35112	-2.40094	1.42302	-0.24277	-1.68091	0.40027	-0.00235	1.33311	0.56198	0.00261	0.82753
0.35938	-2.48018	1.42663	-0.24624	-1.67514	0.38663	-0.00232	1.31698	0.56095	0.00280	0.82851
0.36784	-2.57570	1.42983	-0.24987	-1.66624	0.37263	-0.00230	1.29171	0.56040	0.00292	0.83011
0.37649	-2.68240	1.43312	-0.25357	-1.65574	0.36027	-0.00228	1.26187	0.56000	0.00298	0.83232
0.38536	-2.79515	1.43657	-0.25748	-1.64471	0.34967	-0.00227	1.23068	0.55954	0.00295	0.83521
0.39442	-2.91141	1.44010	-0.26166	-1.63340	0.34085	-0.00227	1.19999	0.55886	0.00281	0.83888
0.40370	-3.02326	1.44387	-0.26622	-1.62350	0.33429	-0.00228	1.17620	0.55733	0.00254	0.84346
0.41321	-3.12363	1.44770	-0.27117	-1.61640	0.33123	-0.00230	1.16444	0.55431	0.00214	0.84880
0.42292	-3.21176	1.45144	-0.27648	-1.61209	0.33244	-0.00232	1.16545	0.54968	0.00165	0.85450
0.43288	-3.29089	1.45524	-0.28213	-1.61008	0.33787	-0.00235	1.17747	0.54360	0.00119	0.85986
0.44307	-3.36737	1.45881	-0.28809	-1.60865	0.34623	-0.00240	1.19521	0.53666	0.00082	0.86440
0.45349	-3.44540	1.46176	-0.29432	-1.60657	0.35625	-0.00245	1.21499	0.52921	0.00058	0.86793
0.46417	-3.52710	1.46423	-0.30070	-1.60367	0.36658	-0.00249	1.23521	0.52141	0.00056	0.86996
0.47508	-3.61254	1.46643	-0.30714	-1.60007	0.37755	-0.00254	1.25689	0.51319	0.00072	0.87053
0.48626	-3.70293	1.46825	-0.31357	-1.59534	0.38915	-0.00260	1.27985	0.50457	0.00102	0.86987
0.49771	-3.79853	1.46958	-0.31999	-1.58924	0.40031	-0.00265	1.30376	0.49562	0.00153	0.86778
0.50942	-3.90165	1.47047	-0.32643	-1.58122	0.41019	-0.00270	1.32636	0.48657	0.00229	0.86394
0.52140	-4.01521	1.47130	-0.33277	-1.57104	0.41857	-0.00274	1.34495	0.47769	0.00338	0.85779
0.53367	-4.13900	1.47237	-0.33891	-1.55914	0.42531	-0.00278	1.35852	0.46913	0.00481	0.84913
0.54624	-4.26761	1.47376	-0.34487	-1.54672	0.43123	-0.00282	1.37031	0.46072	0.00653	0.83843
0.55910	-4.39588	1.47564	-0.35060	-1.53500	0.43690	-0.00286	1.38499	0.45217	0.00846	0.82616
0.57225	-4.52095	1.47815	-0.35607	-1.52461	0.44320	-0.00288	1.40653	0.44319	0.01047	0.81309
0.58569	-4.64221	1.48135	-0.36125	-1.51562	0.45041	-0.00291	1.43612	0.43377	0.01248	0.79972
0.59948	-4.76021	1.48503	-0.36615	-1.50772	0.45831	-0.00294	1.47334	0.42399	0.01445	0.78648
0.61357	-4.87461	1.48884	-0.37081	-1.50056	0.46660	-0.00296	1.51692	0.41403	0.01632	0.77388
0.62802	-4.98674	1.49281	-0.37525	-1.49389	0.47472	-0.00299	1.56655	0.40390	0.01807	0.76210
0.64280	-5.09788	1.49714	-0.37944	-1.48761	0.48274	-0.00301	1.62093	0.39375	0.01969	0.75120
0.65794	-5.20993	1.50200	-0.38338	-1.48149	0.49069	-0.00303	1.67809	0.38378	0.02120	0.74115
0.67340	-5.32308	1.50720	-0.38709	-1.47527	0.49843	-0.00305	1.73550	0.37416	0.02259	0.73205
0.68927	-5.43724	1.51253	-0.39062	-1.46890	0.50597	-0.00307	1.79257	0.36490	0.02388	0.72399
0.70547	-5.55101	1.51791	-0.39396	-1.46251	0.51320	-0.00309	1.84930	0.35602	0.02502	0.71710
0.72207	-5.66511	1.52354	-0.39711	-1.45622	0.52029	-0.00311	1.90671	0.34742	0.02602	0.71119
0.73910	-5.77980	1.52970	-0.40005	-1.45021	0.52749	-0.00313	1.96543	0.33910	0.02686	0.70596
0.75649	-5.89471	1.53642	-0.40275	-1.44457	0.53484	-0.00314	2.02506	0.33111	0.02757	0.70104
0.77429	-6.00958	1.54351	-0.40528	-1.43921	0.54227	-0.00316	2.08507	0.32347	0.02819	0.69596
0.79246	-6.12310	1.55070	-0.40768	-1.43412	0.54967	-0.00318	2.14482	0.31620	0.02875	0.69041
0.81116	-6.23660	1.55797	-0.40997	-1.42915	0.55703	-0.00320	2.20414	0.30924	0.02927	0.68443
0.83022	-6.35002	1.56538	-0.41211	-1.42423	0.56419	-0.00321	2.26147	0.30270	0.02972	0.67831
0.84976	-6.46519	1.57322	-0.41408	-1.41932	0.57127	-0.00323	2.31676	0.29653	0.03009	0.67231
0.86972	-6.58214	1.58157	-0.41588	-1.41445	0.57829	-0.00325	2.36975	0.29075	0.03037	0.66682
0.89023	-6.70165	1.59047	-0.41750	-1.40956	0.58521	-0.00326	2.42038	0.28530	0.03056	0.66222
0.91116	-6.82197	1.59961	-0.41897	-1.40468	0.59190	-0.00328	2.46809	0.28023	0.03066	0.65894
0.93257	-6.94268	1.60879	-0.42034	-1.39974	0.59831	-0.00330	2.51276	0.27549	0.03070	0.65698
0.95456	-7.06379	1.61797	-0.42161	-1.39476	0.60447	-0.00331	2.55462	0.27105	0.03068	0.65626
0.97704	-7.18514	1.62719	-0.42277	-1.38978	0.61037	-0.00333	2.59341	0.26691	0.03061	0.65674
1.00000	-7.30741	1.63664	-0.42379	-1.38481	0.61608	-0.00334	2.62918	0.26307	0.03047	0.65832
1.02354	-7.43182	1.64655	-0.42466	-1.37986	0.62167	-0.00336	2.66221	0.25949	0.03027	0.66091
1.04767	-7.55850	1.65699	-0.42534	-1.37496	0.62717	-0.00337	2.69281	0.25616	0.03001	0.66437
1.07227	-7.68649	1.66784	-0.42587	-1.37014	0.63254	-0.00338	2.72100	0.25307	0.02970	0.66848
1.09745	-7.81562	1.67895	-0.42625	-1.36535	0.63775	-0.00340	2.74691	0.25018	0.02937	0.67310
1.12334	-7.94568	1.69017	-0.42653	-1.36056	0.64277	-0.00341	2.77070	0.24748	0.02903	0.67810
1.14982	-8.07543	1.70132	-0.42671	-1.35581	0.64757	-0.00342	2.79235	0.24495	0.02871	0.68333
1.17675	-8.20409	1.71232	-0.42679	-1.35112	0.65213	-0.00343	2.81182	0.24261	0.02840	0.68866
1.20453	-8.33389	1.72342	-0.42676	-1.34646	0.65658	-0.00344	2.82957	0.24040	0.02810	0.69403
1.23289	-8.46408	1.73468	-0.42658	-1.34189	0.66093	-0.00346	2.84555	0.23837	0.02779	0.69928
1.26183	-8.59508	1.74623	-0.42625	-1.33745	0.66523	-0.00347	2.86001	0.23649	0.02745	0.70440
1.29149	-8.72782	1.75821	-0.42575	-1.33312	0.66956	-0.00348	2.87324	0.23475	0.02709	0.70950
1.32188	-8.86214	1.77061	-0.42507	-1.32892	0.67393	-0.00349	2.88553	0.23313	0.02669	0.71466
1.35300	-8.99763	1.78335	-0.42424	-1.32485	0.67833	-0.00349	2.89700	0.23163	0.02626	0.71998
1.38485	-9.13369	1.79629	-0.42327	-1.32092	0.68272	-0.00350	2.90770	0.23023	0.02581	0.72552
1.41743	-9.26962	1.80927	-0.42219	-1.31711	0.68708	-0.00351	2.91768	0.22892	0.02536	0.73139
1.45075	-9.40482	1.82218	-0.42101	-1.31344	0.69139	-0.00352	2.92703	0.22771	0.02491	0.73761
1.48500	-9.53985	1.83502	-0.41973	-1.30989	0.69567	-0.00353	2.93576	0.22657	0.02447	0.74420
1.51999	-9.67385	1.84772	-0.41836	-1.30647	0.69990	-0.00354	2.94376	0.22553	0.02403	0.75111
1.55569	-9.80700	1.86034	-0.41690	-1.30320	0.70410	-0.00354	2.95102	0.22458	0.02361	0.75831
1.59236	-9.94055	1.87304	-0.41531	-1.30006	0.70832	-0.00355	2.95756	0.22372	0.02318	0.76588
1.62973	-10.07393	1.88586	-0.41361	-1.29707	0.71256	-0.00356	2.96340	0.22296	0.02273	0.77375
1.66806	-10.20833	1.89893	-0.41177	-1.29423	0.71689	-0.00356	2.96862	0.22228	0.02226	0.78198
1.70736	-10.34387	1.91232	-0.40978	-1.29153	0.72130	-0.00357	2.97326	0.22169	0.02176	0.79059
1.74764	-10.48052	1.92602	-0.40766	-1.28899	0.72581	-0.00357	2.97741	0.22119	0.02123	0.79957
1.78859	-10.61705	1.93989	-0.40542	-1.28661	0.73036	-0.00358	2.98102	0.22077	0.02068	0.80884
1.83083	-10.75521	1.95408	-0.40303	-1.28436	0.73500	-0.00358	2.98417	0.22042	0.02011	0.81851
1.87371	-10.89243	1.96826	-0.40056	-1.28226	0.73966	-0.00359	2.98694	0.22015	0.01953	0.82837
1.91791	-11.03048	1.98259	-0.39798	-1.28029	0.74437	-0.00359	2.98940	0.21993	0.01895	0.83850
1.96309	-11.16786	1.99686	-0.39531	-1.27846	0.74909	-0.00360	2.99154	0.21977	0.01839	0.84866

2.00924	-11.30426	2.01100	-0.39257	-1.27676	0.75379	-0.00360	2.99342	0.21967	0.01785	0.85871
2.05634	-11.43944	2.02497	-0.38975	-1.27521	0.75847	-0.00360	2.99510	0.21962	0.01734	0.86850
2.10482	-11.57448	2.03889	-0.38685	-1.27378	0.76317	-0.00361	2.99664	0.21961	0.01685	0.87794
2.15424	-11.70820	2.05263	-0.38388	-1.27250	0.76784	-0.00361	2.99805	0.21965	0.01639	0.88678
2.20507	-11.84193	2.06637	-0.38081	-1.27135	0.77255	-0.00361	2.99941	0.21972	0.01596	0.89498
2.25683	-11.97456	2.07999	-0.37766	-1.27034	0.77725	-0.00361	3.00079	0.21984	0.01556	0.90252
2.31000	-12.10747	2.09368	-0.37439	-1.26946	0.78200	-0.00361	3.00224	0.21998	0.01516	0.90959
2.36463	-12.24084	2.10747	-0.37101	-1.26872	0.78681	-0.00362	3.00373	0.22016	0.01477	0.91631
2.42014	-12.37349	2.12127	-0.36755	-1.26810	0.79162	-0.00362	3.00512	0.22038	0.01438	0.92275
2.47709	-12.50679	2.13521	-0.36397	-1.26759	0.79648	-0.00362	3.00650	0.22062	0.01399	0.92913
2.53550	-12.64076	2.14930	-0.36027	-1.26718	0.80137	-0.00362	3.00785	0.22089	0.01359	0.93564
2.59471	-12.77396	2.16340	-0.35650	-1.26685	0.80625	-0.00362	3.00907	0.22118	0.01318	0.94232
2.65604	-12.90912	2.17775	-0.35257	-1.26661	0.81120	-0.00362	3.01042	0.22148	0.01276	0.94940
2.71887	-13.04472	2.19221	-0.34856	-1.26644	0.81616	-0.00362	3.01166	0.22180	0.01233	0.95684
2.78242	-13.17904	2.20658	-0.34449	-1.26634	0.82106	-0.00361	3.01282	0.22213	0.01190	0.96461
2.84819	-13.31482	2.22108	-0.34028	-1.26630	0.82600	-0.00361	3.01413	0.22246	0.01146	0.97295
2.91545	-13.45063	2.23564	-0.33603	-1.26631	0.83091	-0.00361	3.01512	0.22280	0.01102	0.98181
2.98329	-13.58410	2.24986	-0.33173	-1.26639	0.83570	-0.00361	3.01646	0.22313	0.01060	0.99096
3.05344	-13.71876	2.26424	-0.32736	-1.26650	0.84050	-0.00361	3.01748	0.22347	0.01018	1.00039
3.12598	-13.85431	2.27859	-0.32284	-1.26668	0.84530	-0.00360	3.01887	0.22381	0.00977	1.00992
3.19898	-13.98700	2.29262	-0.31839	-1.26689	0.84995	-0.00360	3.02004	0.22413	0.00938	1.01900
3.27439	-14.12047	2.30662	-0.31378	-1.26716	0.85458	-0.00360	3.02150	0.22445	0.00901	1.02762
3.35121	-14.25242	2.32040	-0.30921	-1.26746	0.85912	-0.00359	3.02289	0.22476	0.00867	1.03549
3.43053	-14.38507	2.33415	-0.30448	-1.26783	0.86363	-0.00359	3.02462	0.22507	0.00834	1.04296
3.51124	-14.51600	2.34767	-0.29983	-1.26821	0.86805	-0.00358	3.02621	0.22536	0.00803	1.05015
3.59324	-14.64533	2.36086	-0.29503	-1.26868	0.87237	-0.00358	3.02843	0.22563	0.00773	1.05741
3.67782	-14.77523	2.37419	-0.29033	-1.26913	0.87666	-0.00357	3.03007	0.22590	0.00745	1.06514
3.76506	-14.90476	2.38713	-0.28532	-1.26973	0.88090	-0.00357	3.03311	0.22614	0.00717	1.07380
3.85356	-15.03384	2.40035	-0.28057	-1.27026	0.88507	-0.00356	3.03473	0.22640	0.00690	1.08307
3.94477	-15.16133	2.41286	-0.27547	-1.27095	0.88919	-0.00356	3.03847	0.22661	0.00663	1.09306
4.03714	-15.28925	2.42585	-0.27059	-1.27159	0.89323	-0.00355	3.04062	0.22684	0.00638	1.10318
4.13223	-15.41537	2.43828	-0.26558	-1.27231	0.89722	-0.00354	3.04413	0.22703	0.00614	1.11343
4.23012	-15.54265	2.45076	-0.26032	-1.27314	0.90119	-0.00354	3.04804	0.22722	0.00589	1.12349
4.32900	-15.66894	2.46358	-0.25550	-1.27384	0.90508	-0.00353	3.05040	0.22742	0.00568	1.13272
4.43066	-15.79218	2.47523	-0.25012	-1.27480	0.90890	-0.00352	3.05582	0.22755	0.00544	1.14149
4.53515	-15.91941	2.48800	-0.24498	-1.27566	0.91273	-0.00351	3.05905	0.22773	0.00523	1.14955
4.64253	-16.04467	2.50038	-0.23995	-1.27653	0.91651	-0.00350	3.06291	0.22787	0.00502	1.15703
4.75059	-16.16567	2.51160	-0.23437	-1.27764	0.92016	-0.00350	3.06912	0.22797	0.00480	1.16400
4.86145	-16.29165	2.52445	-0.22935	-1.27854	0.92382	-0.00349	3.07219	0.22813	0.00461	1.17027
4.97760	-16.41574	2.53642	-0.22414	-1.27956	0.92747	-0.00348	3.07726	0.22822	0.00441	1.17629
5.09424	-16.53593	2.54733	-0.21835	-1.28082	0.93101	-0.00347	3.08425	0.22831	0.00418	1.18201
5.21376	-16.66218	2.56028	-0.21329	-1.28181	0.93455	-0.00346	3.08774	0.22844	0.00399	1.18712
5.33618	-16.78288	2.57193	-0.20826	-1.28288	0.93799	-0.00345	3.09296	0.22849	0.00380	1.19205
5.46150	-16.89978	2.58200	-0.20227	-1.28428	0.94137	-0.00344	3.10098	0.22856	0.00356	1.19715
5.58971	-17.02419	2.59444	-0.19697	-1.28543	0.94476	-0.00343	3.10569	0.22865	0.00337	1.20191
5.72082	-17.14636	2.60686	-0.19230	-1.28646	0.94807	-0.00342	3.11011	0.22868	0.00320	1.20660
5.85823	-17.26109	2.61613	-0.18624	-1.28796	0.95132	-0.00341	3.11892	0.22873	0.00295	1.21209
5.99520	-17.37934	2.62686	-0.18041	-1.28937	0.95451	-0.00340	3.12576	0.22881	0.00272	1.21748
6.13497	-17.50352	2.64000	-0.17578	-1.29045	0.95768	-0.00339	3.13006	0.22882	0.00256	1.22257
6.28141	-17.61849	2.65024	-0.17068	-1.29174	0.96073	-0.00338	3.13727	0.22880	0.00236	1.22825
6.42674	-17.72470	2.65794	-0.16443	-1.29338	0.96365	-0.00337	3.14606	0.22889	0.00209	1.23439
6.57895	-17.84368	2.66889	-0.15872	-1.29484	0.96668	-0.00336	3.15277	0.22895	0.00186	1.24048
6.73401	-17.96770	2.68221	-0.15437	-1.29596	0.96963	-0.00334	3.15826	0.22886	0.00173	1.24619
6.89180	-18.07358	2.69062	-0.14933	-1.29734	0.97236	-0.00333	3.16607	0.22884	0.00152	1.25251
7.05716	-18.17596	2.69671	-0.14270	-1.29914	0.97514	-0.00332	3.17474	0.22900	0.00121	1.25961
7.22022	-18.28561	2.70583	-0.13699	-1.30068	0.97785	-0.00331	3.18168	0.22908	0.00098	1.26601
7.39098	-18.40799	2.71867	-0.13248	-1.30191	0.98055	-0.00330	3.18809	0.22897	0.00084	1.27182
7.56430	-18.51479	2.72802	-0.12825	-1.30316	0.98304	-0.00329	3.19570	0.22884	0.00069	1.27749
7.73994	-18.59932	2.73046	-0.12195	-1.30490	0.98544	-0.00328	3.20277	0.22911	0.00036	1.28384
7.92393	-18.69642	2.73575	-0.11563	-1.30666	0.98796	-0.00328	3.20969	0.22932	0.00006	1.28970
8.11030	-18.80299	2.74410	-0.11007	-1.30822	0.99044	-0.00327	3.21604	0.22941	-0.00017	1.29471
8.29876	-18.92037	2.75640	-0.10604	-1.30944	0.99278	-0.00325	3.22291	0.22924	-0.00028	1.29859
8.49618	-19.01094	2.76138	-0.10151	-1.31080	0.99496	-0.00324	3.22957	0.22928	-0.00048	1.30300
8.69565	-19.07428	2.75851	-0.09506	-1.31263	0.99711	-0.00324	3.23526	0.22968	-0.00087	1.30836
8.90472	-19.15482	2.75981	-0.08884	-1.31442	0.99937	-0.00324	3.24176	0.22993	-0.00121	1.31330
9.11577	-19.23989	2.76276	-0.08305	-1.31610	1.00156	-0.00323	3.24791	0.23011	-0.00150	1.31796
9.32836	-19.34721	2.77196	-0.07815	-1.31753	1.00374	-0.00322	3.25238	0.23021	-0.00170	1.32194
9.54198	-19.44018	2.77862	-0.07433	-1.31873	1.00564	-0.00321	3.25751	0.23021	-0.00184	1.32593
9.76563	-19.47488	2.77008	-0.06941	-1.32025	1.00734	-0.00321	3.26581	0.23031	-0.00219	1.33182
10.00000	-19.50645	2.76022	-0.06398	-1.32187	1.00906	-0.00321	3.27653	0.23027	-0.00259	1.33861

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Median stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 30 - 61 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	2.99166	2.32318	-0.12423	-3.58024	1.22761	-0.00028	16.00927	0.23579	0.00427	0.38470
PGV	10.90339	1.64726	-0.17546	-3.85151	1.08322	-0.00019	19.70909	0.24410	0.00881	0.39639
PGA	4.90048	1.58239	-0.07241	-3.19908	0.57594	-0.00115	8.49260	0.42784	-0.02508	0.75367
0.01000	4.92007	1.59134	-0.07019	-3.19767	0.55824	-0.00116	8.52396	0.43136	-0.00632	0.72402
0.01024	4.93474	1.59182	-0.06991	-3.20005	0.55785	-0.00116	8.54165	0.43134	-0.00637	0.72462
0.01048	4.95145	1.59234	-0.06961	-3.20278	0.55748	-0.00116	8.56229	0.43129	-0.00642	0.72521
0.01072	4.97046	1.59291	-0.06930	-3.20591	0.55712	-0.00115	8.58626	0.43121	-0.00647	0.72581
0.01097	4.99191	1.59353	-0.06895	-3.20944	0.55677	-0.00115	8.61374	0.43110	-0.00654	0.72642
0.01123	5.01601	1.59420	-0.06858	-3.21343	0.55642	-0.00115	8.64504	0.43097	-0.00661	0.72704
0.01150	5.04302	1.59494	-0.06818	-3.21790	0.55606	-0.00115	8.68052	0.43081	-0.00669	0.72769
0.01177	5.07326	1.59575	-0.06775	-3.22292	0.55570	-0.00114	8.72063	0.43061	-0.00678	0.72836
0.01205	5.10701	1.59665	-0.06728	-3.22853	0.55532	-0.00114	8.76574	0.43039	-0.00688	0.72908
0.01233	5.14465	1.59765	-0.06676	-3.23479	0.55492	-0.00113	8.81637	0.43013	-0.00700	0.72987
0.01262	5.18668	1.59876	-0.06619	-3.24180	0.55450	-0.00113	8.87323	0.42984	-0.00713	0.73075
0.01292	5.23377	1.60001	-0.06555	-3.24967	0.55406	-0.00112	8.93737	0.42951	-0.00728	0.73173
0.01322	5.28648	1.60141	-0.06486	-3.25847	0.55358	-0.00112	9.00966	0.42913	-0.00745	0.73284
0.01353	5.34486	1.60297	-0.06409	-3.26820	0.55301	-0.00111	9.09022	0.42872	-0.00763	0.73408
0.01385	5.40910	1.60470	-0.06324	-3.27888	0.55234	-0.00111	9.17926	0.42828	-0.00784	0.73549
0.01417	5.47977	1.60662	-0.06229	-3.29059	0.55152	-0.00110	9.27766	0.42782	-0.00807	0.73707
0.01451	5.55749	1.60875	-0.06125	-3.30341	0.55053	-0.00109	9.38658	0.42732	-0.00832	0.73891
0.01485	5.64262	1.61113	-0.06008	-3.31737	0.54934	-0.00108	9.50664	0.42681	-0.00862	0.74106
0.01520	5.73303	1.61376	-0.05877	-3.33207	0.54783	-0.00107	9.63438	0.42633	-0.00895	0.74356
0.01556	5.82612	1.61663	-0.05732	-3.34700	0.54588	-0.00107	9.76563	0.42595	-0.00932	0.74642
0.01592	5.92085	1.61979	-0.05570	-3.36201	0.54350	-0.00106	9.89839	0.42569	-0.00973	0.74967
0.01630	6.01632	1.62338	-0.05393	-3.37697	0.54081	-0.00105	10.03080	0.42560	-0.01018	0.75325
0.01668	6.10848	1.62747	-0.05200	-3.39123	0.53794	-0.00105	10.15584	0.42575	-0.01064	0.75706
0.01707	6.18960	1.63201	-0.04988	-3.40342	0.53479	-0.00106	10.26015	0.42630	-0.01111	0.76110
0.01748	6.25326	1.63684	-0.04750	-3.41233	0.53113	-0.00107	10.33316	0.42731	-0.01160	0.76543
0.01789	6.29906	1.64197	-0.04487	-3.41783	0.52671	-0.00108	10.37490	0.42882	-0.01210	0.76988
0.01831	6.32421	1.64759	-0.04201	-3.41960	0.52134	-0.00110	10.38026	0.43089	-0.01255	0.77424
0.01874	6.33012	1.65375	-0.03895	-3.41805	0.51495	-0.00112	10.35107	0.43350	-0.01293	0.77826
0.01918	6.31154	1.66019	-0.03568	-3.41220	0.50735	-0.00115	10.28027	0.43668	-0.01325	0.78199
0.01963	6.24466	1.66673	-0.03215	-3.39794	0.49850	-0.00119	10.12937	0.44082	-0.01358	0.78586
0.02009	6.14081	1.67360	-0.02849	-3.37758	0.48928	-0.00123	9.91776	0.44575	-0.01394	0.78991
0.02057	6.03830	1.68094	-0.02492	-3.35797	0.48042	-0.00128	9.70805	0.45073	-0.01422	0.79356
0.02105	5.93845	1.68849	-0.02150	-3.33925	0.47147	-0.00132	9.50199	0.45573	-0.01437	0.79628
0.02154	5.82144	1.69603	-0.01812	-3.31775	0.46206	-0.00136	9.27007	0.46109	-0.01448	0.79862
0.02205	5.68863	1.70388	-0.01478	-3.29383	0.45241	-0.00140	9.01663	0.46684	-0.01466	0.80138
0.02257	5.54431	1.71192	-0.01155	-3.26815	0.44229	-0.00145	8.75053	0.47288	-0.01484	0.80406
0.02310	5.38060	1.71952	-0.00836	-3.23890	0.43187	-0.00149	8.46501	0.47924	-0.01484	0.80543
0.02364	5.20421	1.72661	-0.00520	-3.20731	0.42204	-0.00155	8.17377	0.48569	-0.01467	0.80562
0.02420	5.02350	1.73337	-0.00207	-3.17512	0.41320	-0.00160	7.88717	0.49209	-0.01449	0.80565
0.02477	4.82280	1.73897	0.00098	-3.13918	0.40356	-0.00165	7.57602	0.49886	-0.01426	0.80534
0.02535	4.58514	1.74253	0.00392	-3.09588	0.39096	-0.00169	7.21335	0.50651	-0.01389	0.80400
0.02595	4.32432	1.74536	0.00685	-3.04833	0.37737	-0.00174	6.82548	0.51486	-0.01342	0.80192
0.02656	4.06181	1.74933	0.00991	-3.00170	0.36621	-0.00179	6.44688	0.52346	-0.01292	0.79964
0.02719	3.80762	1.75422	0.01298	-2.95791	0.35681	-0.00184	6.08561	0.53211	-0.01234	0.79704
0.02783	3.57789	1.75842	0.01564	-2.91856	0.34599	-0.00188	5.75749	0.54038	-0.01166	0.79386
0.02848	3.39780	1.76103	0.01754	-2.88680	0.33348	-0.00189	5.49673	0.54739	-0.01090	0.79023
0.02915	3.25762	1.76283	0.01884	-2.86116	0.32184	-0.00190	5.29475	0.55318	-0.01013	0.78654
0.02984	3.12113	1.76532	0.02008	-2.83659	0.31275	-0.00191	5.10705	0.55879	-0.00943	0.78330
0.03054	2.96736	1.76833	0.02156	-2.80957	0.30603	-0.00194	4.90771	0.56481	-0.00891	0.78115
0.03126	2.79568	1.77072	0.02332	-2.77923	0.30087	-0.00198	4.69629	0.57117	-0.00867	0.78052
0.03199	2.60619	1.77231	0.02526	-2.74554	0.29601	-0.00201	4.47131	0.57798	-0.00852	0.78059
0.03275	2.40980	1.77393	0.02719	-2.71121	0.28982	-0.00205	4.23919	0.58533	-0.00820	0.77992
0.03352	2.24005	1.77662	0.02896	-2.68273	0.28295	-0.00207	4.03567	0.59229	-0.00772	0.77847
0.03430	2.11398	1.78092	0.03069	-2.66294	0.27916	-0.00209	3.88699	0.59788	-0.00724	0.77675
0.03511	2.01338	1.78627	0.03245	-2.64812	0.28035	-0.00212	3.77867	0.60221	-0.00676	0.77474
0.03594	1.90539	1.79036	0.03396	-2.63117	0.28315	-0.00217	3.66967	0.60636	-0.00624	0.77240
0.03678	1.78726	1.79046	0.03467	-2.60991	0.28222	-0.00220	3.54379	0.61077	-0.00568	0.76991
0.03765	1.69168	1.78736	0.03433	-2.59066	0.27680	-0.00220	3.42889	0.61467	-0.00515	0.76782
0.03854	1.63321	1.78432	0.03335	-2.57808	0.27055	-0.00219	3.34576	0.61755	-0.00463	0.76589
0.03944	1.60029	1.78167	0.03220	-2.56988	0.26698	-0.00218	3.29120	0.61941	-0.00401	0.76321
0.04037	1.56844	1.77798	0.03118	-2.56030	0.26749	-0.00218	3.24622	0.62076	-0.00325	0.75947
0.04132	1.51114	1.77370	0.03062	-2.54528	0.27089	-0.00220	3.18392	0.62274	-0.00249	0.75560
0.04229	1.41229	1.77070	0.03071	-2.52408	0.27300	-0.00223	3.08341	0.62656	-0.00190	0.75304
0.04329	1.29164	1.76957	0.03114	-2.50088	0.27037	-0.00225	2.95986	0.63187	-0.00151	0.75179
0.04431	1.19648	1.76945	0.03119	-2.48320	0.26462	-0.00225	2.85705	0.63663	-0.00105	0.74984
0.04535	1.15616	1.76902	0.03040	-2.47516	0.26023	-0.00225	2.80293	0.63910	-0.00037	0.74593

0.04642	1.14419	1.76661	0.02892	-2.47075	0.25945	-0.00225	2.77721	0.63976	0.00052	0.74024
0.04751	1.10666	1.76157	0.02734	-2.45981	0.26061	-0.00226	2.73521	0.64072	0.00151	0.73389
0.04863	1.02641	1.75545	0.02598	-2.44044	0.26080	-0.00228	2.65950	0.64325	0.00242	0.72802
0.04977	0.92671	1.75047	0.02480	-2.41858	0.25871	-0.00229	2.56616	0.64704	0.00329	0.72240
0.05094	0.82263	1.74682	0.02371	-2.39696	0.25338	-0.00230	2.46778	0.65160	0.00417	0.71660
0.05214	0.71856	1.74290	0.02255	-2.37493	0.24441	-0.00230	2.36919	0.65653	0.00502	0.71093
0.05337	0.61967	1.73798	0.02121	-2.35287	0.23371	-0.00228	2.27634	0.66130	0.00582	0.70579
0.05462	0.53384	1.73218	0.01972	-2.33257	0.22418	-0.00227	2.19629	0.66530	0.00648	0.70183
0.05591	0.46086	1.72553	0.01806	-2.31427	0.21753	-0.00226	2.12744	0.66844	0.00689	0.69985
0.05722	0.38618	1.71844	0.01632	-2.29572	0.21362	-0.00226	2.05762	0.67148	0.00702	0.69998
0.05857	0.29233	1.71184	0.01465	-2.27419	0.21101	-0.00227	1.97527	0.67545	0.00705	0.70076
0.05995	0.19307	1.70552	0.01280	-2.25169	0.20800	-0.00228	1.89083	0.67981	0.00725	0.70028
0.06136	0.11860	1.69877	0.01044	-2.23297	0.20374	-0.00229	1.82476	0.68313	0.00772	0.69800
0.06280	0.08970	1.69217	0.00756	-2.22240	0.19987	-0.00228	1.79228	0.68420	0.00830	0.69499
0.06428	0.09767	1.68734	0.00459	-2.21987	0.19822	-0.00227	1.79073	0.68319	0.00879	0.69265
0.06579	0.12279	1.68384	0.00167	-2.22176	0.19939	-0.00226	1.80711	0.68087	0.00919	0.69101
0.06734	0.13287	1.67878	-0.00136	-2.22024	0.20196	-0.00225	1.81526	0.67873	0.00972	0.68874
0.06893	0.11770	1.66956	-0.00484	-2.21152	0.20396	-0.00225	1.80237	0.67740	0.01054	0.68469
0.07055	0.10140	1.65680	-0.00897	-2.20013	0.20470	-0.00223	1.78310	0.67605	0.01160	0.67896
0.07221	0.11200	1.64336	-0.01355	-2.19282	0.20502	-0.00219	1.77991	0.67355	0.01265	0.67271
0.07391	0.14201	1.63123	-0.01811	-2.18921	0.20592	-0.00216	1.79299	0.67021	0.01353	0.66701
0.07565	0.15955	1.62109	-0.02217	-2.18383	0.20819	-0.00215	1.80416	0.66742	0.01420	0.66238
0.07743	0.14698	1.61348	-0.02548	-2.17435	0.21212	-0.00216	1.80151	0.66594	0.01463	0.65934
0.07925	0.10739	1.60857	-0.02809	-2.16230	0.21736	-0.00219	1.78460	0.66569	0.01487	0.65761
0.08111	0.05182	1.60561	-0.03027	-2.14973	0.22374	-0.00224	1.75768	0.66618	0.01503	0.65634
0.08302	-0.01200	1.60279	-0.03237	-2.13667	0.23187	-0.00228	1.72423	0.66690	0.01523	0.65490
0.08498	-0.07644	1.59834	-0.03462	-2.12279	0.24257	-0.00233	1.68957	0.66726	0.01546	0.65332
0.08697	-0.14135	1.59206	-0.03703	-2.10749	0.25501	-0.00237	1.65533	0.66723	0.01564	0.65247
0.08902	-0.21135	1.58521	-0.03954	-2.09071	0.26721	-0.00242	1.61915	0.66732	0.01571	0.65300
0.09112	-0.28199	1.57928	-0.04211	-2.07446	0.27731	-0.00246	1.58291	0.66773	0.01570	0.65471
0.09326	-0.34348	1.57480	-0.04479	-2.06125	0.28430	-0.00248	1.55054	0.66827	0.01568	0.65697
0.09545	-0.37721	1.57202	-0.04761	-2.05493	0.28869	-0.00248	1.53305	0.66798	0.01563	0.65960
0.09770	-0.37638	1.57113	-0.05052	-2.05696	0.29182	-0.00246	1.53640	0.66627	0.01552	0.66273
0.10000	-0.34808	1.57163	-0.05347	-2.06541	0.29384	-0.00243	1.55772	0.66332	0.01528	0.66678
0.10235	-0.29787	1.57225	-0.05668	-2.07786	0.29405	-0.00239	1.59434	0.65927	0.01488	0.67196
0.10476	-0.24683	1.57143	-0.06025	-2.08887	0.29154	-0.00234	1.63240	0.65509	0.01439	0.67791
0.10723	-0.21765	1.56849	-0.06408	-2.09361	0.28633	-0.00230	1.65647	0.65185	0.01390	0.68372
0.10975	-0.22660	1.56352	-0.06795	-2.08929	0.27846	-0.00227	1.65443	0.65040	0.01352	0.68845
0.11233	-0.28550	1.55651	-0.07160	-2.07381	0.26733	-0.00225	1.61735	0.65143	0.01323	0.69202
0.11498	-0.39525	1.54735	-0.07491	-2.04699	0.25415	-0.00225	1.54570	0.65502	0.01297	0.69492
0.11768	-0.53303	1.53631	-0.07797	-2.01329	0.24244	-0.00225	1.45753	0.65992	0.01274	0.69745
0.12045	-0.67084	1.52434	-0.08090	-1.97881	0.23513	-0.00227	1.37262	0.66461	0.01257	0.69953
0.12328	-0.78680	1.51288	-0.08384	-1.94899	0.23397	-0.00229	1.30529	0.66784	0.01243	0.70113
0.12619	-0.87512	1.50338	-0.08682	-1.92625	0.23928	-0.00232	1.25877	0.66928	0.01234	0.70218
0.12916	-0.94343	1.49669	-0.08971	-1.90975	0.24974	-0.00236	1.22820	0.66946	0.01229	0.70255
0.13219	-1.00336	1.49288	-0.09242	-1.89723	0.26293	-0.00240	1.20625	0.66918	0.01236	0.70197
0.13531	-1.06303	1.49135	-0.09501	-1.88656	0.27579	-0.00245	1.18737	0.66901	0.01253	0.70058
0.13849	-1.12218	1.49126	-0.09770	-1.87696	0.28615	-0.00250	1.17085	0.66897	0.01273	0.69902
0.14175	-1.16903	1.49174	-0.10079	-1.86989	0.29418	-0.00254	1.16311	0.66820	0.01283	0.69808
0.14508	-1.19525	1.49217	-0.10441	-1.86646	0.30147	-0.00257	1.16880	0.66599	0.01278	0.69818
0.14850	-1.19894	1.49230	-0.10849	-1.86708	0.30970	-0.00259	1.18852	0.66217	0.01261	0.69906
0.15199	-1.18132	1.49198	-0.11298	-1.87159	0.31920	-0.00260	1.22098	0.65691	0.01241	0.70031
0.15557	-1.14436	1.49086	-0.11781	-1.87935	0.32930	-0.00261	1.26481	0.65043	0.01215	0.70225
0.15923	-1.08958	1.48864	-0.12289	-1.88973	0.33930	-0.00260	1.31992	0.64287	0.01167	0.70579
0.16298	-1.01788	1.48534	-0.12811	-1.90247	0.34825	-0.00257	1.38719	0.63431	0.01090	0.71140
0.16681	-0.93150	1.48151	-0.13340	-1.91756	0.35575	-0.00254	1.46666	0.62500	0.00991	0.71838
0.17074	-0.84107	1.47786	-0.13863	-1.93366	0.36207	-0.00250	1.55196	0.61569	0.00883	0.72587
0.17475	-0.76677	1.47485	-0.14362	-1.94749	0.36713	-0.00246	1.62750	0.60765	0.00780	0.73294
0.17887	-0.72186	1.47289	-0.14826	-1.95703	0.37074	-0.00243	1.68151	0.60162	0.00695	0.73878
0.18307	-0.72104	1.47204	-0.15240	-1.95966	0.37174	-0.00241	1.70099	0.59835	0.00634	0.74287
0.18738	-0.77205	1.47181	-0.15600	-1.95349	0.36905	-0.00239	1.67979	0.59813	0.00595	0.74544
0.19179	-0.87389	1.47161	-0.15909	-1.93808	0.36290	-0.00239	1.62034	0.60074	0.00562	0.74739
0.19631	-1.02110	1.47094	-0.16176	-1.91397	0.35368	-0.00240	1.52974	0.60582	0.00530	0.74911
0.20092	-1.20824	1.46938	-0.16420	-1.88165	0.34175	-0.00242	1.41518	0.61314	0.00505	0.75028
0.20565	-1.42276	1.46677	-0.16661	-1.84325	0.32819	-0.00244	1.28835	0.62213	0.00492	0.75066
0.21049	-1.64924	1.46353	-0.16912	-1.80199	0.31480	-0.00247	1.16151	0.63204	0.00500	0.74991
0.21544	-1.86674	1.46047	-0.17186	-1.76259	0.30384	-0.00250	1.04865	0.64160	0.00541	0.74738
0.22051	-2.05677	1.45809	-0.17501	-1.72904	0.29683	-0.00254	0.95958	0.64939	0.00615	0.74308
0.22570	-2.20615	1.45642	-0.17874	-1.70392	0.29474	-0.00257	0.89944	0.65408	0.00702	0.73821
0.23101	-2.30893	1.45533	-0.18305	-1.68832	0.29839	-0.00261	0.86914	0.65485	0.00777	0.73424
0.23645	-2.36585	1.45479	-0.18783	-1.68216	0.30794	-0.00263	0.86691	0.65156	0.00823	0.73226
0.24201	-2.38337	1.45488	-0.19291	-1.68425	0.32285	-0.00266	0.88909	0.64482	0.00833	0.73280
0.24771	-2.37018	1.45580	-0.19811	-1.69304	0.34253	-0.00269	0.93189	0.63552	0.00813	0.73556
0.25354	-2.33872	1.45747	-0.20327	-1.70590	0.36548	-0.00271	0.98912	0.62490	0.00769	0.74016
0.25950	-2.29772	1.45957	-0.20840	-1.72062	0.38992	-0.00274	1.05616	0.61381	0.00702	0.74647
0.26561	-2.25577	1.46157	-0.21353	-1.73486	0.41391	-0.00277	1.12734	0.60301	0.00613	0.75424
0.27186	-2.22431	1.46292	-0.21868	-1.74572	0.43514	-0.00280	1.19409	0.59336	0.00510	0.76288
0.27826	-2.21054	1.46345	-0.22383	-1.75160	0.45285	-0.00283	1.25019	0.58529	0.00402	0.77173
0.28480	-2.21538	1.46340	-0.22889	-1.75264	0.46755	-0.00286	1.29397	0.57878	0.00298	0.78026
0.29150	-2.23543	1.46321	-0.23374	-1.75012	0.48002	-0.00290	1.32718	0.57355	0.00201	0.78817
0.29836	-2.26749	1.46324	-0.23826	-1.74520	0.49046	-0.00293	1.35111	0.56946	0.00113	0.79529

0.30539	-2.31030	1.46352	-0.24237	-1.73829	0.49863	-0.00296	1.36593	0.56640	0.00036	0.80147
0.31257	-2.36141	1.46390	-0.24611	-1.72976	0.50483	-0.00298	1.37291	0.56419	-0.00030	0.80680
0.31993	-2.41518	1.46434	-0.24959	-1.72065	0.51022	-0.00300	1.37653	0.56240	-0.00090	0.81164
0.32745	-2.46416	1.46496	-0.25287	-1.71246	0.51579	-0.00302	1.38303	0.56048	-0.00150	0.81648
0.33517	-2.50222	1.46591	-0.25602	-1.70651	0.52251	-0.00304	1.39798	0.55799	-0.00217	0.82186
0.34304	-2.52459	1.46739	-0.25903	-1.70390	0.53084	-0.00305	1.42588	0.55462	-0.00292	0.82783
0.35112	-2.52934	1.46968	-0.26196	-1.70536	0.54086	-0.00306	1.46932	0.55025	-0.00366	0.83391
0.35938	-2.51404	1.47304	-0.26486	-1.71174	0.55249	-0.00306	1.53042	0.54487	-0.00428	0.83935
0.36784	-2.47614	1.47770	-0.26779	-1.72391	0.56594	-0.00306	1.61250	0.53840	-0.00470	0.84372
0.37649	-2.41484	1.48373	-0.27079	-1.74222	0.58134	-0.00305	1.71759	0.53086	-0.00494	0.84691
0.38536	-2.33319	1.49095	-0.27391	-1.76596	0.59810	-0.00303	1.84370	0.52260	-0.00499	0.84898
0.39442	-2.23860	1.49912	-0.27712	-1.79352	0.61517	-0.00301	1.98499	0.51411	-0.00486	0.84981
0.40370	-2.14260	1.50782	-0.28041	-1.82229	0.63101	-0.00298	2.13086	0.50596	-0.00455	0.84941
0.41321	-2.05884	1.51650	-0.28375	-1.84912	0.64365	-0.00295	2.26593	0.49886	-0.00410	0.84805
0.42292	-1.99896	1.52483	-0.28709	-1.87150	0.65145	-0.00291	2.37627	0.49324	-0.00353	0.84596
0.43288	-1.97036	1.53266	-0.29050	-1.88794	0.65372	-0.00286	2.45258	0.48926	-0.00280	0.84285
0.44307	-1.98059	1.53977	-0.29409	-1.89679	0.65001	-0.00282	2.48439	0.48719	-0.00186	0.83844
0.45349	-2.03192	1.54628	-0.29794	-1.89776	0.64081	-0.00277	2.46851	0.48711	-0.00069	0.83287
0.46417	-2.12307	1.55232	-0.30199	-1.89124	0.62695	-0.00273	2.40859	0.48887	0.00066	0.82651
0.47508	-2.24818	1.55794	-0.30616	-1.87840	0.60965	-0.00268	2.31477	0.49207	0.00208	0.82007
0.48626	-2.40072	1.56298	-0.31035	-1.86039	0.59004	-0.00264	2.19754	0.49630	0.00340	0.81458
0.49771	-2.57908	1.56715	-0.31451	-1.83721	0.56861	-0.00261	2.06126	0.50149	0.00451	0.81088
0.50942	-2.78172	1.57025	-0.31864	-1.80883	0.54537	-0.00258	1.91084	0.50752	0.00533	0.80932
0.52140	-3.00301	1.57241	-0.32278	-1.77633	0.52131	-0.00256	1.75481	0.51409	0.00585	0.80987
0.53367	-3.23762	1.57377	-0.32709	-1.74078	0.49723	-0.00254	1.59929	0.52098	0.00613	0.81222
0.54624	-3.47646	1.57441	-0.33166	-1.70400	0.47414	-0.00254	1.45224	0.52775	0.00620	0.81600
0.55910	-3.71139	1.57463	-0.33651	-1.66793	0.45302	-0.00254	1.32056	0.53382	0.00615	0.82060
0.57225	-3.93806	1.57484	-0.34158	-1.63381	0.43453	-0.00254	1.20728	0.53874	0.00607	0.82531
0.58569	-4.15439	1.57542	-0.34674	-1.60241	0.41905	-0.00256	1.11269	0.54230	0.00603	0.82966
0.59948	-4.36120	1.57640	-0.35202	-1.57355	0.40605	-0.00257	1.03422	0.54453	0.00606	0.83360
0.61357	-4.55474	1.57771	-0.35740	-1.54787	0.39599	-0.00260	0.97224	0.54518	0.00615	0.83709
0.62802	-4.73657	1.57946	-0.36285	-1.52525	0.38898	-0.00262	0.92511	0.54417	0.00637	0.83980
0.64280	-4.90817	1.58181	-0.36823	-1.50555	0.38490	-0.00265	0.89130	0.54147	0.00676	0.84110
0.65794	-5.07134	1.58476	-0.37358	-1.48838	0.38299	-0.00269	0.86923	0.53713	0.00740	0.84052
0.67340	-5.22505	1.58816	-0.37890	-1.47371	0.38329	-0.00272	0.85876	0.53115	0.00830	0.83790
0.68927	-5.37146	1.59170	-0.38418	-1.46082	0.38558	-0.00276	0.85859	0.52360	0.00945	0.83348
0.70547	-5.51193	1.59514	-0.38932	-1.44900	0.38929	-0.00280	0.86726	0.51473	0.01079	0.82755
0.72207	-5.64894	1.59855	-0.39428	-1.43786	0.39378	-0.00284	0.88403	0.50465	0.01226	0.82028
0.73910	-5.78273	1.60216	-0.39900	-1.42758	0.39922	-0.00288	0.90891	0.49348	0.01381	0.81182
0.75649	-5.91343	1.60610	-0.40345	-1.41821	0.40567	-0.00292	0.94088	0.48152	0.01540	0.80213
0.77429	-6.04180	1.61029	-0.40764	-1.40956	0.41304	-0.00296	0.97887	0.46906	0.01702	0.79114
0.79246	-6.16698	1.61451	-0.41153	-1.40156	0.42091	-0.00299	1.02220	0.45629	0.01865	0.77893
0.81116	-6.28877	1.61870	-0.41518	-1.39433	0.42933	-0.00303	1.07240	0.44307	0.02026	0.76583
0.83022	-6.40519	1.62292	-0.41853	-1.38817	0.43857	-0.00306	1.13041	0.42950	0.02177	0.75261
0.84976	-6.51679	1.62743	-0.42154	-1.38336	0.44919	-0.00310	1.19833	0.41547	0.02314	0.73977
0.86972	-6.62367	1.63247	-0.42419	-1.38002	0.46131	-0.00313	1.27667	0.40118	0.02436	0.72777
0.89023	-6.72698	1.63816	-0.42647	-1.37814	0.47502	-0.00316	1.36634	0.38671	0.02546	0.71680
0.91116	-6.82633	1.64431	-0.42835	-1.37751	0.48985	-0.00320	1.46628	0.37233	0.02644	0.70722
0.93257	-6.92318	1.65067	-0.42989	-1.37761	0.50527	-0.00323	1.57513	0.35820	0.02734	0.69895
0.95456	-7.01887	1.65712	-0.43110	-1.37808	0.52094	-0.00326	1.69190	0.34439	0.02818	0.69188
0.97704	-7.11431	1.66369	-0.43201	-1.37865	0.53652	-0.00329	1.81448	0.33108	0.02895	0.68602
1.00000	-7.21073	1.67056	-0.43262	-1.37920	0.55180	-0.00331	1.94129	0.31839	0.02963	0.68147
1.02354	-7.30954	1.67793	-0.43292	-1.37969	0.56669	-0.00334	2.07129	0.30632	0.03018	0.67827
1.04767	-7.41130	1.68590	-0.43295	-1.38006	0.58111	-0.00337	2.20292	0.29493	0.03061	0.67639
1.07227	-7.51571	1.69437	-0.43275	-1.38022	0.59484	-0.00339	2.33364	0.28433	0.03092	0.67568
1.09745	-7.62291	1.70324	-0.43235	-1.38006	0.60782	-0.00341	2.46213	0.27448	0.03115	0.67592
1.12334	-7.73278	1.71236	-0.43180	-1.37955	0.62006	-0.00343	2.58762	0.26535	0.03131	0.67697
1.14982	-7.84434	1.72153	-0.43114	-1.37863	0.63153	-0.00346	2.70819	0.25694	0.03143	0.67863
1.17675	-7.95679	1.73065	-0.43040	-1.37732	0.64221	-0.00348	2.82226	0.24927	0.03152	0.68077
1.20453	-8.07200	1.73994	-0.42955	-1.37563	0.65232	-0.00349	2.93080	0.24219	0.03157	0.68326
1.23289	-8.18910	1.74944	-0.42861	-1.37366	0.66182	-0.00351	3.03231	0.23576	0.03158	0.68596
1.26183	-8.30818	1.75930	-0.42755	-1.37153	0.67082	-0.00353	3.12698	0.22991	0.03153	0.68881
1.29149	-8.42995	1.76965	-0.42637	-1.36929	0.67946	-0.00355	3.21533	0.22460	0.03142	0.69190
1.32188	-8.55426	1.78051	-0.42507	-1.36700	0.68775	-0.00356	3.29731	0.21979	0.03126	0.69528
1.35300	-8.68080	1.79180	-0.42365	-1.36463	0.69572	-0.00358	3.37275	0.21546	0.03104	0.69899
1.38485	-8.80902	1.80338	-0.42213	-1.36216	0.70334	-0.00359	3.44162	0.21155	0.03078	0.70311
1.41743	-8.93822	1.81509	-0.42054	-1.35959	0.71063	-0.00360	3.50412	0.20804	0.03050	0.70769
1.45075	-9.06782	1.82681	-0.41889	-1.35691	0.71758	-0.00362	3.56033	0.20490	0.03021	0.71274
1.48500	-9.19824	1.83851	-0.41718	-1.35411	0.72425	-0.00363	3.61066	0.20208	0.02992	0.71825
1.51999	-9.32846	1.85013	-0.41541	-1.35125	0.73064	-0.00364	3.65510	0.19959	0.02962	0.72418
1.55569	-9.45843	1.86172	-0.41358	-1.34838	0.73680	-0.00365	3.69411	0.19741	0.02931	0.73052
1.59236	-9.58909	1.87343	-0.41166	-1.34555	0.74283	-0.00366	3.72846	0.19550	0.02898	0.73732
1.62973	-9.71972	1.88528	-0.40965	-1.34285	0.74874	-0.00368	3.75841	0.19387	0.02861	0.74455
1.66806	-9.85137	1.89744	-0.40754	-1.34028	0.75462	-0.00369	3.78451	0.19249	0.02819	0.75227
1.70736	-9.98415	1.90995	-0.40532	-1.33787	0.76047	-0.00369	3.80700	0.19135	0.02773	0.76050
1.74764	-10.11797	1.92282	-0.40298	-1.33563	0.76633	-0.00370	3.82623	0.19044	0.02720	0.76925
1.78859	-10.25165	1.93590	-0.40056	-1.33358	0.77212	-0.00371	3.84218	0.18973	0.02663	0.77841
1.83083	-10.38698	1.94934	-0.39803	-1.33166	0.77794	-0.00372	3.85519	0.18922	0.02602	0.78810
1.87371	-10.52148	1.96283	-0.39544	-1.32989	0.78367	-0.00372	3.86523	0.18889	0.02538	0.79812
1.91791	-10.65694	1.97649	-0.39276	-1.32821	0.78938	-0.00373	3.87261	0.18872	0.02472	0.80852
1.96309	-10.79196	1.99013	-0.39003	-1.32662	0.79502	-0.00374	3.87737	0.18869	0.02405	0.81905

2.00924	-10.92623	2.00367	-0.38724	-1.32510	0.80056	-0.00374	3.87967	0.18879	0.02339	0.82957
2.05634	-11.05955	2.01707	-0.38442	-1.32364	0.80600	-0.00375	3.87971	0.18902	0.02275	0.83988
2.10482	-11.19297	2.03042	-0.38152	-1.32223	0.81139	-0.00375	3.87772	0.18934	0.02212	0.84992
2.15424	-11.32533	2.04361	-0.37857	-1.32088	0.81668	-0.00376	3.87398	0.18976	0.02152	0.85938
2.20507	-11.45790	2.05679	-0.37555	-1.31959	0.82192	-0.00376	3.86877	0.19025	0.02094	0.86823
2.25683	-11.58955	2.06987	-0.37246	-1.31838	0.82709	-0.00376	3.86248	0.19081	0.02038	0.87643
2.31000	-11.72168	2.08302	-0.36927	-1.31725	0.83221	-0.00377	3.85524	0.19141	0.01984	0.88417
2.36463	-11.85449	2.09627	-0.36598	-1.31618	0.83731	-0.00377	3.84726	0.19206	0.01930	0.89154
2.42014	-11.98672	2.10954	-0.36260	-1.31521	0.84234	-0.00377	3.83884	0.19273	0.01877	0.89861
2.47709	-12.11966	2.12295	-0.35911	-1.31433	0.84734	-0.00378	3.83019	0.19342	0.01825	0.90560
2.53550	-12.25334	2.13653	-0.35550	-1.31354	0.85233	-0.00378	3.82143	0.19413	0.01772	0.91269
2.59471	-12.38630	2.15015	-0.35182	-1.31286	0.85725	-0.00378	3.81272	0.19484	0.01719	0.91993
2.65604	-12.52119	2.16402	-0.34798	-1.31227	0.86220	-0.00378	3.80417	0.19556	0.01665	0.92755
2.71887	-12.65654	2.17803	-0.34405	-1.31177	0.86713	-0.00378	3.79576	0.19628	0.01611	0.93550
2.78242	-12.79060	2.19198	-0.34007	-1.31137	0.87197	-0.00378	3.78757	0.19700	0.01558	0.94377
2.84819	-12.92607	2.20608	-0.33593	-1.31106	0.87682	-0.00378	3.77966	0.19772	0.01504	0.95259
2.91545	-13.06163	2.22026	-0.33176	-1.31081	0.88163	-0.00377	3.77165	0.19844	0.01450	0.96192
2.98329	-13.19478	2.23412	-0.32752	-1.31064	0.88631	-0.00377	3.76420	0.19913	0.01398	0.97152
3.05344	-13.32923	2.24815	-0.32323	-1.31051	0.89099	-0.00377	3.75651	0.19984	0.01346	0.98140
3.12598	-13.46452	2.26217	-0.31877	-1.31044	0.89564	-0.00377	3.74902	0.20054	0.01296	0.99136
3.19898	-13.59706	2.27588	-0.31439	-1.31039	0.90016	-0.00376	3.74156	0.20122	0.01249	1.00085
3.27439	-13.73038	2.28957	-0.30987	-1.31039	0.90462	-0.00376	3.73412	0.20190	0.01204	1.00985
3.35121	-13.86230	2.30306	-0.30537	-1.31040	0.90900	-0.00375	3.72673	0.20257	0.01162	1.01809
3.43053	-13.99490	2.31650	-0.30072	-1.31046	0.91332	-0.00375	3.71932	0.20324	0.01121	1.02591
3.51124	-14.12594	2.32974	-0.29614	-1.31053	0.91756	-0.00375	3.71195	0.20388	0.01083	1.03344
3.59324	-14.25526	2.34262	-0.29144	-1.31065	0.92166	-0.00374	3.70494	0.20452	0.01046	1.04102
3.67782	-14.38546	2.35570	-0.28680	-1.31077	0.92577	-0.00374	3.69754	0.20515	0.01011	1.04909
3.76506	-14.51493	2.36832	-0.28190	-1.31098	0.92975	-0.00373	3.69107	0.20576	0.00976	1.05805
3.85356	-14.64448	2.38132	-0.27722	-1.31116	0.93374	-0.00372	3.68373	0.20638	0.00943	1.06766
3.94477	-14.77187	2.39351	-0.27223	-1.31145	0.93755	-0.00372	3.67806	0.20695	0.00909	1.07793
4.03714	-14.90020	2.40627	-0.26742	-1.31173	0.94138	-0.00371	3.67124	0.20754	0.00878	1.08837
4.13223	-15.02645	2.41844	-0.26250	-1.31208	0.94510	-0.00370	3.66586	0.20807	0.00847	1.09890
4.23012	-15.15368	2.43063	-0.25735	-1.31252	0.94876	-0.00370	3.66057	0.20862	0.00817	1.10921
4.32900	-15.28060	2.44329	-0.25258	-1.31291	0.95245	-0.00369	3.65469	0.20915	0.00790	1.11872
4.43066	-15.40339	2.45460	-0.24734	-1.31349	0.95588	-0.00368	3.65124	0.20963	0.00762	1.12768
4.53515	-15.53097	2.46719	-0.24226	-1.31404	0.95945	-0.00367	3.64610	0.21015	0.00736	1.13597
4.64253	-15.65655	2.47940	-0.23729	-1.31463	0.96298	-0.00367	3.64209	0.21061	0.00711	1.14366
4.75059	-15.77676	2.49026	-0.23186	-1.31539	0.96617	-0.00366	3.63985	0.21105	0.00686	1.15074
4.86145	-15.90335	2.50303	-0.22687	-1.31607	0.96963	-0.00365	3.63540	0.21153	0.00663	1.15722
4.97760	-16.02743	2.51482	-0.22174	-1.31684	0.97298	-0.00364	3.63304	0.21194	0.00639	1.16340
5.09424	-16.14648	2.52535	-0.21611	-1.31779	0.97601	-0.00363	3.63199	0.21235	0.00615	1.16917
5.21376	-16.27340	2.53827	-0.21106	-1.31863	0.97937	-0.00362	3.62853	0.21279	0.00592	1.17447
5.33618	-16.39420	2.54981	-0.20607	-1.31953	0.98254	-0.00361	3.62714	0.21314	0.00570	1.17955
5.46150	-16.50933	2.55944	-0.20030	-1.32065	0.98532	-0.00360	3.62764	0.21351	0.00546	1.18464
5.58971	-16.63398	2.57182	-0.19502	-1.32168	0.98845	-0.00358	3.62555	0.21392	0.00523	1.18955
5.72082	-16.75717	2.58432	-0.19031	-1.32263	0.99165	-0.00357	3.62401	0.21425	0.00503	1.19444
5.85823	-16.86965	2.59311	-0.18448	-1.32389	0.99424	-0.00356	3.62591	0.21456	0.00478	1.19988
5.99520	-16.98672	2.60356	-0.17880	-1.32514	0.99694	-0.00355	3.62594	0.21493	0.00453	1.20531
6.13497	-17.11248	2.61690	-0.17407	-1.32620	1.00008	-0.00354	3.62428	0.21527	0.00433	1.21064
6.28141	-17.22695	2.62699	-0.16904	-1.32739	1.00280	-0.00353	3.62563	0.21552	0.00411	1.21640
6.42674	-17.32994	2.63410	-0.16312	-1.32878	1.00491	-0.00351	3.62806	0.21584	0.00386	1.22243
6.57895	-17.44815	2.64487	-0.15752	-1.33013	1.00751	-0.00350	3.62827	0.21619	0.00362	1.22859
6.73401	-17.57440	2.65849	-0.15300	-1.33129	1.01055	-0.00349	3.62777	0.21645	0.00343	1.23458
6.89180	-17.67912	2.66666	-0.14810	-1.33251	1.01280	-0.00348	3.63001	0.21667	0.00322	1.24093
7.05716	-17.77712	2.67198	-0.14192	-1.33402	1.01455	-0.00346	3.63275	0.21701	0.00294	1.24783
7.22022	-17.88516	2.68079	-0.13638	-1.33543	1.01670	-0.00345	3.63370	0.21733	0.00270	1.25425
7.39098	-18.00937	2.69392	-0.13173	-1.33673	1.01948	-0.00344	3.63408	0.21758	0.00252	1.26031
7.56430	-18.11660	2.70330	-0.12749	-1.33793	1.02181	-0.00342	3.63644	0.21773	0.00235	1.26611
7.73994	-18.19532	2.70475	-0.12177	-1.33933	1.02292	-0.00342	3.63923	0.21804	0.00207	1.27214
7.92393	-18.28832	2.70932	-0.11589	-1.34080	1.02439	-0.00340	3.64076	0.21839	0.00180	1.27781
8.11030	-18.39330	2.71738	-0.11053	-1.34223	1.02628	-0.00339	3.64154	0.21871	0.00157	1.28281
8.29876	-18.51286	2.73004	-0.10632	-1.34354	1.02881	-0.00338	3.64268	0.21890	0.00142	1.28696
8.49618	-18.60135	2.73465	-0.10203	-1.34473	1.03036	-0.00337	3.64528	0.21907	0.00123	1.29129
8.69565	-18.65677	2.73037	-0.09643	-1.34594	1.03064	-0.00336	3.64727	0.21939	0.00092	1.29612
8.90472	-18.73205	2.73068	-0.09082	-1.34724	1.03147	-0.00335	3.64852	0.21969	0.00064	1.30075
9.11577	-18.81322	2.73287	-0.08551	-1.34851	1.03250	-0.00334	3.64930	0.21999	0.00038	1.30519
9.32836	-18.92024	2.74203	-0.08068	-1.34990	1.03433	-0.00333	3.64886	0.22031	0.00017	1.30925
9.54198	-19.01291	2.74863	-0.07694	-1.35104	1.03593	-0.00332	3.65010	0.22049	0.00002	1.31329
9.76563	-19.04011	2.73858	-0.07296	-1.35166	1.03559	-0.00331	3.65392	0.22052	-0.00025	1.31865
10.00000	-19.06357	2.72707	-0.06859	-1.35226	1.03506	-0.00331	3.65845	0.22047	-0.00055	1.32491

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Median stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 61 - 152 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	0.44856	2.25123	-0.20403	-2.98258	1.01232	-0.00063	10.19352	0.26717	0.00939	0.36237
PGV	9.96924	1.72599	-0.20579	-3.76877	1.01100	0.00017	17.83643	0.25241	-0.00101	0.45077
PGA	5.22463	1.58985	-0.08715	-3.31377	0.47729	-0.00033	8.61868	0.42929	-0.03223	0.80519
0.01000	5.15162	1.59851	-0.08544	-3.29590	0.45035	-0.00034	8.49228	0.43542	-0.01832	0.78903
0.01024	5.16247	1.59887	-0.08521	-3.29760	0.44973	-0.00034	8.50279	0.43548	-0.01836	0.78958
0.01048	5.17564	1.59925	-0.08497	-3.29970	0.44917	-0.00034	8.51668	0.43549	-0.01841	0.79013
0.01072	5.19125	1.59964	-0.08472	-3.30222	0.44865	-0.00033	8.53407	0.43547	-0.01846	0.79069
0.01097	5.20957	1.60006	-0.08446	-3.30520	0.44817	-0.00033	8.55536	0.43541	-0.01853	0.79125
0.01123	5.23075	1.60052	-0.08417	-3.30868	0.44772	-0.00033	8.58072	0.43531	-0.01860	0.79184
0.01150	5.25501	1.60102	-0.08387	-3.31268	0.44731	-0.00033	8.61042	0.43516	-0.01868	0.79244
0.01177	5.28265	1.60156	-0.08354	-3.31726	0.44693	-0.00032	8.64489	0.43497	-0.01878	0.79309
0.01205	5.31423	1.60215	-0.08318	-3.32252	0.44656	-0.00032	8.68488	0.43473	-0.01889	0.79378
0.01233	5.35007	1.60281	-0.08280	-3.32850	0.44620	-0.00031	8.73082	0.43445	-0.01901	0.79453
0.01262	5.39038	1.60353	-0.08238	-3.33524	0.44581	-0.00031	8.78302	0.43411	-0.01914	0.79535
0.01292	5.43582	1.60433	-0.08192	-3.34285	0.44542	-0.00030	8.84242	0.43372	-0.01929	0.79625
0.01322	5.48712	1.60522	-0.08141	-3.35144	0.44504	-0.00029	8.91018	0.43326	-0.01946	0.79726
0.01353	5.54466	1.60622	-0.08086	-3.36108	0.44467	-0.00028	8.98684	0.43275	-0.01965	0.79839
0.01385	5.60884	1.60734	-0.08024	-3.37182	0.44429	-0.00027	9.07286	0.43217	-0.01986	0.79966
0.01417	5.67972	1.60857	-0.07957	-3.38367	0.44384	-0.00026	9.16831	0.43154	-0.02009	0.80112
0.01451	5.75768	1.60995	-0.07881	-3.39666	0.44335	-0.00025	9.27379	0.43086	-0.02035	0.80279
0.01485	5.84401	1.61149	-0.07798	-3.41102	0.44281	-0.00024	9.39130	0.43013	-0.02064	0.80472
0.01520	5.93961	1.61322	-0.07705	-3.42691	0.44221	-0.00023	9.52202	0.42933	-0.02097	0.80694
0.01556	6.04378	1.61516	-0.07601	-3.44418	0.44148	-0.00022	9.66483	0.42850	-0.02133	0.80946
0.01592	6.15496	1.61726	-0.07485	-3.46247	0.44052	-0.00020	9.81754	0.42766	-0.02172	0.81229
0.01630	6.27176	1.61949	-0.07357	-3.48149	0.43924	-0.00019	9.97811	0.42686	-0.02215	0.81539
0.01668	6.39391	1.62190	-0.07216	-3.50120	0.43772	-0.00018	10.14609	0.42610	-0.02260	0.81876
0.01707	6.51911	1.62457	-0.07061	-3.52125	0.43618	-0.00016	10.31800	0.42544	-0.02308	0.82239
0.01748	6.64631	1.62760	-0.06892	-3.54149	0.43465	-0.00015	10.49173	0.42489	-0.02357	0.82624
0.01789	6.77717	1.63095	-0.06711	-3.56217	0.43289	-0.00015	10.66979	0.42446	-0.02409	0.83037
0.01831	6.90762	1.63447	-0.06518	-3.58242	0.43062	-0.00014	10.84630	0.42418	-0.02467	0.83490
0.01874	7.02248	1.63808	-0.06310	-3.59959	0.42757	-0.00014	10.99563	0.42430	-0.02529	0.83983
0.01918	7.11300	1.64193	-0.06086	-3.61231	0.42371	-0.00014	11.10169	0.42500	-0.02596	0.84506
0.01963	7.17234	1.64610	-0.05849	-3.61955	0.41900	-0.00015	11.15198	0.42639	-0.02663	0.85034
0.02009	7.19484	1.65053	-0.05602	-3.62042	0.41327	-0.00017	11.13730	0.42852	-0.02726	0.85538
0.02057	7.19366	1.65515	-0.05355	-3.61716	0.40682	-0.00019	11.08208	0.43113	-0.02786	0.86033
0.02105	7.17786	1.65988	-0.05114	-3.61123	0.39976	-0.00021	11.00269	0.43405	-0.02847	0.86551
0.02154	7.13344	1.66449	-0.04870	-3.60004	0.39156	-0.00024	10.87613	0.43753	-0.02909	0.87070
0.02205	7.04559	1.66892	-0.04615	-3.58111	0.38179	-0.00028	10.67720	0.44186	-0.02958	0.87506
0.02257	6.93527	1.67339	-0.04353	-3.55846	0.37072	-0.00031	10.44031	0.44669	-0.02989	0.87823
0.02310	6.82124	1.67808	-0.04089	-3.53561	0.35909	-0.00034	10.19788	0.45166	-0.03006	0.88041
0.02364	6.69566	1.68289	-0.03825	-3.51115	0.34672	-0.00037	9.93952	0.45688	-0.03009	0.88159
0.02420	6.56323	1.68745	-0.03576	-3.48563	0.33347	-0.00040	9.67388	0.46222	-0.03004	0.88214
0.02477	6.43799	1.69166	-0.03352	-3.46148	0.32045	-0.00042	9.42349	0.46736	-0.02999	0.88267
0.02535	6.30457	1.69585	-0.03134	-3.43628	0.30851	-0.00045	9.16596	0.47258	-0.02988	0.88279
0.02595	6.15306	1.70017	-0.02907	-3.40834	0.29777	-0.00048	8.88814	0.47810	-0.02973	0.88243
0.02656	5.97167	1.70493	-0.02666	-3.37571	0.28783	-0.00052	8.57291	0.48426	-0.02955	0.88187
0.02719	5.75383	1.71020	-0.02411	-3.33742	0.27903	-0.00058	8.21290	0.49122	-0.02929	0.88083
0.02783	5.52458	1.71519	-0.02154	-3.29719	0.27152	-0.00063	7.84808	0.49838	-0.02897	0.87939
0.02848	5.30832	1.71965	-0.01910	-3.25889	0.26406	-0.00069	7.50996	0.50533	-0.02865	0.87799
0.02915	5.11121	1.72345	-0.01688	-3.22355	0.25526	-0.00073	7.20076	0.51200	-0.02835	0.87680
0.02984	4.92901	1.72648	-0.01492	-3.19032	0.24560	-0.00077	6.91666	0.51840	-0.02798	0.87528
0.03054	4.74476	1.72873	-0.01312	-3.15628	0.23613	-0.00080	6.63819	0.52479	-0.02754	0.87335
0.03126	4.55023	1.73037	-0.01148	-3.12028	0.22685	-0.00084	6.35270	0.53143	-0.02713	0.87170
0.03199	4.35207	1.73162	-0.00992	-3.08362	0.21718	-0.00087	6.06751	0.53827	-0.02678	0.87036
0.03275	4.17118	1.73278	-0.00839	-3.05009	0.20777	-0.00089	5.80858	0.54480	-0.02653	0.86948
0.03352	3.99417	1.73428	-0.00681	-3.01763	0.19854	-0.00092	5.55930	0.55141	-0.02642	0.86950
0.03430	3.80188	1.73583	-0.00522	-2.98275	0.18826	-0.00094	5.29678	0.55859	-0.02638	0.87006
0.03511	3.62290	1.73766	-0.00386	-2.95058	0.17813	-0.00096	5.05589	0.56553	-0.02627	0.87040
0.03594	3.46256	1.74037	-0.00268	-2.92245	0.16930	-0.00098	4.84432	0.57203	-0.02604	0.87012
0.03678	3.30294	1.74299	-0.00169	-2.89451	0.16082	-0.00100	4.64096	0.57850	-0.02588	0.87040
0.03765	3.15100	1.74541	-0.00097	-2.86784	0.15302	-0.00102	4.45127	0.58477	-0.02592	0.87203
0.03854	3.00047	1.74909	-0.00023	-2.84240	0.14743	-0.00104	4.27032	0.59105	-0.02596	0.87353
0.03944	2.81451	1.75348	0.00097	-2.81134	0.14334	-0.00109	4.06262	0.59837	-0.02583	0.87397
0.04037	2.59372	1.75674	0.00265	-2.77349	0.14026	-0.00114	3.83119	0.60659	-0.02571	0.87441
0.04132	2.37223	1.75823	0.00445	-2.73453	0.13878	-0.00120	3.60873	0.61464	-0.02569	0.87532
0.04229	2.18040	1.75827	0.00596	-2.69985	0.13751	-0.00125	3.41912	0.62174	-0.02564	0.87568
0.04329	2.01529	1.75799	0.00721	-2.66957	0.13495	-0.00128	3.25723	0.62816	-0.02539	0.87450
0.04431	1.83459	1.75816	0.00863	-2.63695	0.13089	-0.00132	3.08733	0.63529	-0.02506	0.87288
0.04535	1.63237	1.75847	0.01012	-2.60086	0.12701	-0.00136	2.90633	0.64324	-0.02482	0.87189

0.04642	1.43692	1.75781	0.01117	-2.56523	0.12265	-0.00140	2.73457	0.65118	-0.02448	0.87046
0.04751	1.27070	1.75664	0.01177	-2.53409	0.11541	-0.00142	2.58677	0.65860	-0.02381	0.86680
0.04863	1.13953	1.75689	0.01229	-2.50994	0.10654	-0.00143	2.47019	0.66512	-0.02276	0.86044
0.04977	1.03273	1.75850	0.01279	-2.49100	0.09865	-0.00144	2.37910	0.67065	-0.02153	0.85263
0.05094	0.93667	1.75893	0.01282	-2.47297	0.08964	-0.00144	2.29797	0.67570	-0.02036	0.84520
0.05214	0.83568	1.75587	0.01220	-2.45138	0.07783	-0.00143	2.21135	0.68087	-0.01949	0.83977
0.05337	0.73413	1.74987	0.01112	-2.42743	0.06670	-0.00142	2.12672	0.68566	-0.01895	0.83644
0.05462	0.66033	1.74263	0.00947	-2.40720	0.05963	-0.00142	2.06740	0.68871	-0.01847	0.83353
0.05591	0.61445	1.73489	0.00718	-2.39134	0.05561	-0.00142	2.03020	0.69025	-0.01781	0.82960
0.05722	0.56186	1.72765	0.00470	-2.37482	0.05120	-0.00141	1.98687	0.69230	-0.01695	0.82469
0.05857	0.47982	1.72170	0.00261	-2.35441	0.04560	-0.00141	1.92226	0.69603	-0.01622	0.82082
0.05995	0.37871	1.71744	0.00110	-2.33217	0.04098	-0.00141	1.84694	0.70083	-0.01588	0.81953
0.06136	0.27782	1.71493	-0.00005	-2.31145	0.03857	-0.00142	1.77541	0.70569	-0.01567	0.81935
0.06280	0.18577	1.71418	-0.00108	-2.29396	0.03793	-0.00144	1.71226	0.71017	-0.01523	0.81807
0.06428	0.09368	1.71424	-0.00220	-2.27765	0.03837	-0.00146	1.65032	0.71463	-0.01456	0.81548
0.06579	-0.00467	1.71194	-0.00388	-2.25863	0.03804	-0.00148	1.58316	0.71931	-0.01397	0.81345
0.06734	-0.10398	1.70554	-0.00622	-2.23595	0.03501	-0.00148	1.51270	0.72415	-0.01368	0.81322
0.06893	-0.19377	1.69729	-0.00864	-2.21316	0.03055	-0.00148	1.44809	0.72864	-0.01358	0.81377
0.07055	-0.26497	1.69071	-0.01049	-2.19500	0.02867	-0.00148	1.39936	0.73197	-0.01342	0.81344
0.07221	-0.31548	1.68793	-0.01177	-2.18376	0.03200	-0.00150	1.36983	0.73378	-0.01311	0.81174
0.07391	-0.35146	1.68791	-0.01316	-2.17743	0.03790	-0.00153	1.35274	0.73463	-0.01278	0.80958
0.07565	-0.39463	1.68682	-0.01528	-2.16896	0.03970	-0.00154	1.32921	0.73614	-0.01247	0.80748
0.07743	-0.45333	1.68202	-0.01827	-2.15503	0.03406	-0.00153	1.29051	0.73896	-0.01212	0.80530
0.07925	-0.49976	1.67403	-0.02204	-2.14126	0.02493	-0.00150	1.25352	0.74128	-0.01182	0.80363
0.08111	-0.50073	1.66428	-0.02638	-2.13446	0.01840	-0.00146	1.24070	0.74067	-0.01181	0.80385
0.08302	-0.44832	1.65455	-0.03090	-2.13691	0.01887	-0.00143	1.26173	0.73621	-0.01198	0.80518
0.08498	-0.36764	1.64625	-0.03516	-2.14496	0.02688	-0.00143	1.30712	0.72929	-0.01200	0.80541
0.08697	-0.29295	1.63985	-0.03898	-2.15286	0.03769	-0.00143	1.35609	0.72246	-0.01176	0.80419
0.08902	-0.24989	1.63551	-0.04241	-2.15653	0.04522	-0.00144	1.38855	0.71790	-0.01135	0.80225
0.09112	-0.25943	1.63244	-0.04544	-2.15166	0.04755	-0.00145	1.39053	0.71669	-0.01077	0.79961
0.09326	-0.32059	1.62902	-0.04805	-2.13702	0.04755	-0.00146	1.36477	0.71812	-0.00993	0.79569
0.09545	-0.41108	1.62445	-0.05040	-2.11624	0.04857	-0.00149	1.32515	0.72064	-0.00873	0.78978
0.09770	-0.50336	1.61902	-0.05263	-2.09507	0.05274	-0.00153	1.28591	0.72278	-0.00722	0.78178
0.10000	-0.56308	1.61377	-0.05498	-2.08089	0.06272	-0.00156	1.26538	0.72266	-0.00567	0.77314
0.10235	-0.57242	1.60957	-0.05755	-2.07753	0.07840	-0.00159	1.27236	0.71951	-0.00440	0.76605
0.10476	-0.54929	1.60590	-0.06039	-2.08099	0.09396	-0.00161	1.29511	0.71483	-0.00356	0.76180
0.10723	-0.53905	1.60129	-0.06332	-2.08142	0.10210	-0.00160	1.30692	0.71141	-0.00308	0.76031
0.10975	-0.57367	1.59430	-0.06634	-2.07138	0.09915	-0.00159	1.28881	0.71105	-0.00277	0.76029
0.11233	-0.64876	1.58434	-0.06985	-2.05111	0.08590	-0.00155	1.24264	0.71358	-0.00249	0.76027
0.11498	-0.74281	1.57249	-0.07372	-2.02542	0.06652	-0.00151	1.18268	0.71776	-0.00221	0.75985
0.11768	-0.84260	1.56092	-0.07747	-1.99859	0.04718	-0.00147	1.12072	0.72260	-0.00205	0.76008
0.12045	-0.93176	1.55229	-0.08089	-1.97615	0.03433	-0.00144	1.06932	0.72672	-0.00211	0.76161
0.12328	-0.99782	1.54816	-0.08403	-1.96209	0.03196	-0.00144	1.03672	0.72898	-0.00236	0.76409
0.12619	-1.03185	1.54795	-0.08710	-1.95752	0.04021	-0.00146	1.02767	0.72846	-0.00270	0.76698
0.12916	-1.04033	1.54929	-0.09006	-1.95893	0.05564	-0.00150	1.03752	0.72552	-0.00290	0.76896
0.13219	-1.04636	1.54980	-0.09262	-1.95967	0.07254	-0.00154	1.05219	0.72187	-0.00272	0.76840
0.13531	-1.07131	1.54855	-0.09465	-1.95500	0.08680	-0.00159	1.05797	0.71921	-0.00216	0.76505
0.13849	-1.11931	1.54552	-0.09637	-1.94439	0.09683	-0.00164	1.04973	0.71816	-0.00147	0.76045
0.14175	-1.17760	1.54077	-0.09830	-1.93054	0.10289	-0.00168	1.03251	0.71806	-0.00091	0.75628
0.14508	-1.22422	1.53501	-0.10099	-1.91819	0.10730	-0.00170	1.01881	0.71735	-0.00059	0.75359
0.14850	-1.24157	1.53001	-0.10473	-1.91203	0.11233	-0.00171	1.02026	0.71476	-0.00058	0.75271
0.15199	-1.22132	1.52791	-0.10950	-1.91556	0.12016	-0.00171	1.04339	0.70978	-0.00080	0.75341
0.15557	-1.16844	1.52960	-0.11498	-1.92868	0.13266	-0.00171	1.08747	0.70279	-0.00122	0.75574
0.15923	-1.11185	1.53345	-0.12052	-1.94452	0.14991	-0.00173	1.13763	0.69549	-0.00183	0.75980
0.16298	-1.08361	1.53662	-0.12555	-1.95455	0.16924	-0.00176	1.17399	0.68972	-0.00260	0.76521
0.16681	-1.09944	1.53737	-0.12982	-1.95431	0.18624	-0.00180	1.18397	0.68658	-0.00345	0.77145
0.17074	-1.15297	1.53571	-0.13341	-1.94497	0.19760	-0.00183	1.16923	0.68595	-0.00421	0.77725
0.17475	-1.22939	1.53217	-0.13654	-1.92958	0.20201	-0.00185	1.13889	0.68705	-0.00469	0.78136
0.17887	-1.30659	1.52726	-0.13953	-1.91262	0.20047	-0.00185	1.10720	0.68843	-0.00484	0.78356
0.18307	-1.36297	1.52188	-0.14264	-1.89891	0.19585	-0.00184	1.08749	0.68858	-0.00474	0.78450
0.18738	-1.39278	1.51688	-0.14587	-1.89028	0.19001	-0.00181	1.08364	0.68705	-0.00445	0.78444
0.19179	-1.40587	1.51268	-0.14912	-1.88535	0.18255	-0.00178	1.09028	0.68450	-0.00395	0.78287
0.19631	-1.42252	1.50905	-0.15233	-1.88031	0.17155	-0.00174	1.09472	0.68239	-0.00323	0.77940
0.20092	-1.45718	1.50585	-0.15557	-1.87252	0.15760	-0.00169	1.08813	0.68164	-0.00229	0.77407
0.20565	-1.51560	1.50331	-0.15892	-1.86129	0.14445	-0.00166	1.06824	0.68237	-0.00124	0.76777
0.21049	-1.59935	1.50167	-0.16234	-1.84663	0.13629	-0.00164	1.03578	0.68442	-0.00022	0.76184
0.21544	-1.70423	1.50096	-0.16573	-1.82940	0.13493	-0.00166	0.99459	0.68735	0.00067	0.75684
0.22051	-1.81947	1.50066	-0.16925	-1.81097	0.13929	-0.00170	0.95165	0.69031	0.00143	0.75264
0.22570	-1.93192	1.50003	-0.17316	-1.79273	0.14713	-0.00176	0.91453	0.69236	0.00212	0.74877
0.23101	-2.03269	1.49862	-0.17752	-1.77560	0.15699	-0.00183	0.88777	0.69288	0.00285	0.74480
0.23645	-2.11654	1.49671	-0.18215	-1.76061	0.16827	-0.00189	0.87334	0.69166	0.00361	0.74086
0.24201	-2.18100	1.49482	-0.18682	-1.74872	0.18064	-0.00196	0.87149	0.68880	0.00429	0.73781
0.24771	-2.22011	1.49346	-0.19144	-1.74159	0.19354	-0.00201	0.88487	0.68407	0.00479	0.73632
0.25354	-2.22986	1.49297	-0.19603	-1.74045	0.20572	-0.00205	0.91505	0.67749	0.00509	0.73656
0.25950	-2.22383	1.49357	-0.20048	-1.74314	0.21632	-0.00206	0.95404	0.67035	0.00526	0.73789
0.26561	-2.22072	1.49500	-0.20463	-1.74619	0.22561	-0.00207	0.99028	0.66408	0.00535	0.73985
0.27186	-2.23878	1.49660	-0.20834	-1.74567	0.23327	-0.00208	1.01173	0.65986	0.00524	0.74299
0.27826	-2.28736	1.49786	-0.21164	-1.73953	0.23878	-0.00209	1.01173	0.65819	0.00489	0.74743
0.28480	-2.36533	1.49879	-0.21477	-1.72830	0.24167	-0.00210	0.99010	0.65899	0.00453	0.75190
0.29150	-2.45904	1.49950	-0.21811	-1.71480	0.24263	-0.00211	0.95592	0.66115	0.00431	0.75539
0.29836	-2.55471	1.49965	-0.22192	-1.70127	0.24313	-0.00212	0.91889	0.66339	0.00419	0.75821

0.30539	-2.64171	1.49916	-0.22631	-1.68943	0.24484	-0.00213	0.88690	0.66463	0.00410	0.76067
0.31257	-2.71339	1.49840	-0.23129	-1.68073	0.24923	-0.00214	0.86528	0.66409	0.00409	0.76252
0.31993	-2.76099	1.49818	-0.23680	-1.67758	0.25778	-0.00215	0.86081	0.66085	0.00415	0.76372
0.32745	-2.77419	1.49936	-0.24273	-1.68280	0.27162	-0.00216	0.88068	0.65407	0.00427	0.76456
0.33517	-2.75432	1.50199	-0.24893	-1.69619	0.28960	-0.00216	0.92536	0.64404	0.00437	0.76538
0.34304	-2.71626	1.50527	-0.25528	-1.71402	0.30821	-0.00215	0.98647	0.63228	0.00449	0.76596
0.35112	-2.68177	1.50816	-0.26175	-1.73094	0.32401	-0.00214	1.05046	0.62064	0.00463	0.76624
0.35938	-2.66878	1.50986	-0.26824	-1.74244	0.33506	-0.00211	1.10449	0.61048	0.00466	0.76708
0.36784	-2.68316	1.51031	-0.27471	-1.74711	0.34136	-0.00209	1.14430	0.60204	0.00447	0.76946
0.37649	-2.72273	1.50986	-0.28104	-1.74556	0.34383	-0.00206	1.17092	0.59509	0.00401	0.77377
0.38536	-2.78713	1.50874	-0.28712	-1.73796	0.34289	-0.00205	1.18370	0.58966	0.00320	0.78032
0.39442	-2.88280	1.50726	-0.29271	-1.72333	0.33837	-0.00205	1.17668	0.58635	0.00202	0.78920
0.40370	-3.01710	1.50592	-0.29765	-1.70079	0.33013	-0.00206	1.14345	0.58592	0.00056	0.79974
0.41321	-3.18489	1.50520	-0.30203	-1.67201	0.31841	-0.00208	1.08652	0.58842	-0.00094	0.81054
0.42292	-3.37062	1.50565	-0.30601	-1.64081	0.30407	-0.00210	1.01721	0.59301	-0.00227	0.82041
0.43288	-3.55759	1.50765	-0.30975	-1.61109	0.28886	-0.00211	0.94841	0.59837	-0.00336	0.82912
0.44307	-3.73337	1.51120	-0.31333	-1.58546	0.27611	-0.00213	0.88888	0.60328	-0.00426	0.83719
0.45349	-3.89295	1.51600	-0.31688	-1.56462	0.26884	-0.00214	0.84163	0.60703	-0.00506	0.84533
0.46417	-4.03635	1.52193	-0.32050	-1.54834	0.26863	-0.00217	0.80634	0.60937	-0.00576	0.85346
0.47508	-4.16479	1.52903	-0.32427	-1.53632	0.27549	-0.00222	0.78186	0.61029	-0.00625	0.86069
0.48626	-4.28002	1.53705	-0.32826	-1.52796	0.28830	-0.00227	0.76657	0.60991	-0.00642	0.86624
0.49771	-4.38444	1.54532	-0.33254	-1.52197	0.30492	-0.00234	0.75811	0.60848	-0.00631	0.87004
0.50942	-4.48288	1.55317	-0.33706	-1.51663	0.32270	-0.00241	0.75294	0.60641	-0.00601	0.87250
0.52140	-4.57977	1.56021	-0.34172	-1.51061	0.33955	-0.00247	0.74795	0.60414	-0.00560	0.87421
0.53367	-4.67552	1.56631	-0.34647	-1.50369	0.35450	-0.00253	0.74247	0.60180	-0.00514	0.87560
0.54624	-4.76690	1.57160	-0.35128	-1.49665	0.36792	-0.00258	0.73824	0.59919	-0.00470	0.87718
0.55910	-4.85122	1.57649	-0.35611	-1.49033	0.38050	-0.00263	0.73717	0.59616	-0.00435	0.87948
0.57225	-4.92803	1.58136	-0.36083	-1.48518	0.39283	-0.00267	0.74014	0.59261	-0.00413	0.88271
0.58569	-4.99735	1.58633	-0.36543	-1.48133	0.40501	-0.00270	0.74753	0.58851	-0.00399	0.88661
0.59948	-5.05822	1.59137	-0.37002	-1.47897	0.41700	-0.00273	0.76022	0.58374	-0.00389	0.89084
0.61357	-5.11055	1.59640	-0.37462	-1.47806	0.42832	-0.00275	0.77816	0.57839	-0.00379	0.89510
0.62802	-5.15566	1.60152	-0.37925	-1.47847	0.43845	-0.00276	0.80119	0.57252	-0.00366	0.89927
0.64280	-5.19464	1.60685	-0.38385	-1.48012	0.44694	-0.00276	0.82926	0.56619	-0.00352	0.90318
0.65794	-5.22952	1.61247	-0.38842	-1.48273	0.45329	-0.00276	0.86154	0.55958	-0.00332	0.90665
0.67340	-5.26316	1.61828	-0.39293	-1.48570	0.45701	-0.00274	0.89565	0.55306	-0.00305	0.90945
0.68927	-5.30081	1.62413	-0.39737	-1.48793	0.45757	-0.00272	0.92767	0.54707	-0.00265	0.91125
0.70547	-5.34743	1.62981	-0.40168	-1.48829	0.45462	-0.00269	0.95344	0.54202	-0.00208	0.91145
0.72207	-5.40678	1.63525	-0.40587	-1.48602	0.44791	-0.00265	0.97051	0.53797	-0.00126	0.90947
0.73910	-5.48086	1.64045	-0.40994	-1.48078	0.43787	-0.00261	0.97741	0.53492	-0.00019	0.90494
0.75649	-5.56899	1.64537	-0.41389	-1.47277	0.42556	-0.00256	0.97416	0.53280	0.00115	0.89770
0.77429	-5.66843	1.65007	-0.41776	-1.46264	0.41218	-0.00252	0.96277	0.53133	0.00272	0.88774
0.79246	-5.77483	1.65453	-0.42156	-1.45127	0.39889	-0.00247	0.94644	0.53019	0.00448	0.87540
0.81116	-5.88523	1.65886	-0.42537	-1.43938	0.38645	-0.00243	0.92869	0.52894	0.00637	0.86123
0.83022	-5.99510	1.66320	-0.42913	-1.42789	0.37561	-0.00240	0.91326	0.52717	0.00831	0.84616
0.84976	-6.10375	1.66775	-0.43277	-1.41724	0.36716	-0.00237	0.90217	0.52458	0.01023	0.83091
0.86972	-6.21013	1.67271	-0.43624	-1.40775	0.36146	-0.00234	0.89649	0.52108	0.01205	0.81651
0.89023	-6.31613	1.67828	-0.43950	-1.39927	0.35822	-0.00233	0.89541	0.51684	0.01369	0.80394
0.91116	-6.42221	1.68445	-0.44249	-1.39170	0.35705	-0.00232	0.89760	0.51217	0.01507	0.79419
0.93257	-6.52992	1.69128	-0.44519	-1.38482	0.35761	-0.00232	0.90173	0.50732	0.01615	0.78743
0.95456	-6.64015	1.69884	-0.44761	-1.37862	0.35991	-0.00233	0.90754	0.50231	0.01697	0.78347
0.97704	-6.75347	1.70714	-0.44976	-1.37301	0.36362	-0.00234	0.91462	0.49720	0.01756	0.78191
1.00000	-6.87067	1.71619	-0.45169	-1.36786	0.36837	-0.00237	0.92283	0.49197	0.01799	0.78223
1.02354	-6.99327	1.72595	-0.45347	-1.36288	0.37380	-0.00239	0.93174	0.48656	0.01829	0.78402
1.04767	-7.12166	1.73633	-0.45513	-1.35792	0.37961	-0.00242	0.94113	0.48094	0.01847	0.78706
1.07227	-7.25525	1.74710	-0.45669	-1.35276	0.38544	-0.00245	0.95041	0.47518	0.01852	0.79123
1.09745	-7.39457	1.75810	-0.45815	-1.34717	0.39106	-0.00249	0.95884	0.46933	0.01843	0.79648
1.12334	-7.53869	1.76914	-0.45950	-1.34122	0.39668	-0.00252	0.96721	0.46325	0.01822	0.80272
1.14982	-7.68438	1.77998	-0.46070	-1.33532	0.40283	-0.00256	0.97758	0.45666	0.01791	0.80959
1.17675	-7.82943	1.79045	-0.46177	-1.32970	0.40980	-0.00260	0.99152	0.44937	0.01757	0.81646
1.20453	-7.97580	1.80068	-0.46270	-1.32428	0.41756	-0.00264	1.00993	0.44119	0.01729	0.82270
1.23289	-8.12185	1.81063	-0.46351	-1.31916	0.42604	-0.00268	1.03329	0.43215	0.01714	0.82755
1.26183	-8.26808	1.82050	-0.46416	-1.31436	0.43510	-0.00272	1.06138	0.42239	0.01717	0.83058
1.29149	-8.41489	1.83052	-0.46461	-1.31005	0.44484	-0.00276	1.09504	0.41194	0.01742	0.83164
1.32188	-8.56160	1.84078	-0.46483	-1.30639	0.45539	-0.00280	1.13526	0.40082	0.01788	0.83075
1.35300	-8.70810	1.85123	-0.46480	-1.30323	0.46682	-0.00283	1.18233	0.38915	0.01855	0.82823
1.38485	-8.85373	1.86176	-0.46452	-1.30048	0.47909	-0.00287	1.23683	0.37699	0.01936	0.82456
1.41743	-8.99676	1.87223	-0.46400	-1.29829	0.49228	-0.00291	1.30036	0.36434	0.02028	0.82029
1.45075	-9.13605	1.88253	-0.46326	-1.29673	0.50628	-0.00295	1.37375	0.35128	0.02126	0.81582
1.48500	-9.27102	1.89262	-0.46230	-1.29595	0.52106	-0.00298	1.45896	0.33781	0.02225	0.81156
1.51999	-9.39995	1.90242	-0.46114	-1.29607	0.53648	-0.00302	1.55657	0.32413	0.02319	0.80791
1.55569	-9.52349	1.91198	-0.45977	-1.29695	0.55229	-0.00305	1.66571	0.31049	0.02405	0.80506
1.59236	-9.64488	1.92148	-0.45816	-1.29813	0.56793	-0.00308	1.78326	0.29720	0.02484	0.80299
1.62973	-9.76485	1.93095	-0.45631	-1.29937	0.58302	-0.00311	1.90542	0.28458	0.02554	0.80172
1.66806	-9.88516	1.94056	-0.45420	-1.30056	0.59761	-0.00314	2.03072	0.27268	0.02613	0.80139
1.70736	-10.00686	1.95040	-0.45181	-1.30153	0.61158	-0.00316	2.15647	0.26159	0.02658	0.80212
1.74764	-10.13062	1.96053	-0.44913	-1.30220	0.62479	-0.00319	2.28035	0.25138	0.02687	0.80401
1.78859	-10.25579	1.97086	-0.44621	-1.30252	0.63704	-0.00321	2.39940	0.24212	0.02702	0.80706
1.83083	-10.38443	1.98156	-0.44303	-1.30244	0.64853	-0.00323	2.51347	0.23369	0.02702	0.81123
1.87371	-10.51452	1.99241	-0.43966	-1.30192	0.65908	-0.00325	2.61904	0.22620	0.02692	0.81633
1.91791	-10.64766	2.00356	-0.43609	-1.30102	0.66895	-0.00326	2.71663	0.21955	0.02672	0.82227
1.96309	-10.78256	2.01485	-0.43240	-1.29971	0.67799	-0.00328	2.80426	0.21374	0.02647	0.82881

2.00924	-10.91805	2.02619	-0.42862	-1.29818	0.68637	-0.00329	2.88299	0.20869	0.02616	0.83577
2.05634	-11.05320	2.03752	-0.42478	-1.29655	0.69425	-0.00330	2.95389	0.20430	0.02581	0.84294
2.10482	-11.18850	2.04893	-0.42086	-1.29494	0.70183	-0.00332	3.01877	0.20047	0.02544	0.85017
2.15424	-11.32232	2.06029	-0.41691	-1.29346	0.70913	-0.00333	3.07802	0.19715	0.02507	0.85712
2.20507	-11.45582	2.07172	-0.41292	-1.29210	0.71626	-0.00334	3.13263	0.19426	0.02469	0.86369
2.25683	-11.58791	2.08314	-0.40890	-1.29088	0.72318	-0.00335	3.18201	0.19180	0.02432	0.86984
2.31000	-11.72011	2.09467	-0.40483	-1.28975	0.72993	-0.00336	3.22645	0.18972	0.02395	0.87571
2.36463	-11.85264	2.10637	-0.40071	-1.28871	0.73653	-0.00336	3.26590	0.18801	0.02357	0.88138
2.42014	-11.98441	2.11816	-0.39657	-1.28775	0.74290	-0.00337	3.29951	0.18667	0.02319	0.88694
2.47709	-12.11700	2.13015	-0.39236	-1.28682	0.74906	-0.00338	3.32721	0.18570	0.02278	0.89261
2.53550	-12.25053	2.14237	-0.38809	-1.28591	0.75501	-0.00338	3.34902	0.18507	0.02234	0.89857
2.59471	-12.38360	2.15471	-0.38381	-1.28502	0.76070	-0.00338	3.36489	0.18477	0.02187	0.90490
2.65604	-12.51888	2.16737	-0.37941	-1.28414	0.76625	-0.00339	3.37566	0.18477	0.02137	0.91180
2.71887	-12.65486	2.18024	-0.37496	-1.28331	0.77163	-0.00339	3.38155	0.18503	0.02083	0.91925
2.78242	-12.78972	2.19313	-0.37051	-1.28254	0.77680	-0.00339	3.38325	0.18553	0.02026	0.92718
2.84819	-12.92603	2.20624	-0.36596	-1.28183	0.78189	-0.00340	3.38179	0.18622	0.01967	0.93584
2.91545	-13.06251	2.21951	-0.36140	-1.28120	0.78687	-0.00340	3.37699	0.18710	0.01905	0.94517
2.98329	-13.19670	2.23253	-0.35684	-1.28062	0.79162	-0.00340	3.36941	0.18813	0.01842	0.95492
3.05344	-13.33217	2.24580	-0.35224	-1.28011	0.79634	-0.00340	3.35920	0.18932	0.01778	0.96510
3.12598	-13.46842	2.25909	-0.34753	-1.27966	0.80098	-0.00340	3.34691	0.19064	0.01712	0.97549
3.19898	-13.60188	2.27216	-0.34291	-1.27926	0.80546	-0.00339	3.33316	0.19202	0.01649	0.98549
3.27439	-13.73598	2.28522	-0.33820	-1.27892	0.80986	-0.00339	3.31800	0.19349	0.01585	0.99510
3.35121	-13.86859	2.29814	-0.33353	-1.27863	0.81416	-0.00339	3.30202	0.19500	0.01524	1.00400
3.43053	-14.00165	2.31103	-0.32876	-1.27840	0.81840	-0.00339	3.28507	0.19658	0.01464	1.01254
3.51124	-14.13303	2.32377	-0.32407	-1.27823	0.82257	-0.00338	3.26783	0.19817	0.01407	1.02081
3.59324	-14.26231	2.33615	-0.31931	-1.27814	0.82661	-0.00338	3.25070	0.19976	0.01350	1.02916
3.67782	-14.39250	2.34880	-0.31461	-1.27811	0.83068	-0.00338	3.23328	0.20136	0.01295	1.03800
3.76506	-14.52142	2.36094	-0.30971	-1.27816	0.83464	-0.00337	3.21679	0.20293	0.01240	1.04776
3.85356	-14.65072	2.37355	-0.30498	-1.27825	0.83862	-0.00337	3.19954	0.20452	0.01187	1.05816
3.94477	-14.77716	2.38529	-0.30007	-1.27842	0.84244	-0.00336	3.18401	0.20604	0.01134	1.06923
4.03714	-14.90492	2.39769	-0.29525	-1.27864	0.84628	-0.00336	3.16731	0.20760	0.01083	1.08047
4.13223	-15.03029	2.40948	-0.29041	-1.27892	0.85002	-0.00335	3.15223	0.20907	0.01034	1.09177
4.23012	-15.15631	2.42126	-0.28537	-1.27928	0.85369	-0.00335	3.13713	0.21056	0.00986	1.10287
4.32900	-15.28277	2.43365	-0.28060	-1.27966	0.85742	-0.00334	3.12178	0.21202	0.00941	1.11312
4.43066	-15.40397	2.44454	-0.27555	-1.28012	0.86089	-0.00333	3.10918	0.21337	0.00897	1.12279
4.53515	-15.53076	2.45684	-0.27053	-1.28063	0.86451	-0.00333	3.09479	0.21479	0.00854	1.13179
4.64253	-15.65569	2.46879	-0.26562	-1.28118	0.86808	-0.00332	3.08200	0.21610	0.00814	1.14013
4.75059	-15.77404	2.47922	-0.26045	-1.28181	0.87135	-0.00331	3.07143	0.21733	0.00775	1.14785
4.86145	-15.90039	2.49181	-0.25547	-1.28245	0.87486	-0.00330	3.05846	0.21863	0.00738	1.15494
4.97760	-16.02374	2.50335	-0.25044	-1.28314	0.87828	-0.00330	3.04806	0.21980	0.00702	1.16168
5.09424	-16.14078	2.51344	-0.24512	-1.28391	0.88139	-0.00329	3.03942	0.22090	0.00665	1.16799
5.21376	-16.26789	2.52625	-0.24004	-1.28469	0.88481	-0.00328	3.02800	0.22210	0.00631	1.17382
5.33618	-16.38842	2.53762	-0.23512	-1.28548	0.88806	-0.00327	3.01941	0.22313	0.00599	1.17936
5.46150	-16.50120	2.54676	-0.22974	-1.28636	0.89094	-0.00326	3.01328	0.22407	0.00564	1.18491
5.58971	-16.62584	2.55899	-0.22451	-1.28726	0.89417	-0.00325	3.00398	0.22515	0.00532	1.19027
5.72082	-16.75007	2.57152	-0.21969	-1.28815	0.89746	-0.00324	2.99554	0.22611	0.00502	1.19556
5.85823	-16.85992	2.57980	-0.21431	-1.28912	0.90017	-0.00323	2.99172	0.22690	0.00469	1.20138
5.99520	-16.97560	2.58991	-0.20891	-1.29012	0.90301	-0.00322	2.98570	0.22780	0.00437	1.20719
6.13497	-17.10321	2.60339	-0.20397	-1.29113	0.90626	-0.00321	2.97731	0.22876	0.00409	1.21288
6.28141	-17.21722	2.61330	-0.19908	-1.29213	0.90910	-0.00320	2.97322	0.22948	0.00381	1.21895
6.42674	-17.31657	2.61976	-0.19377	-1.29317	0.91138	-0.00319	2.97148	0.23012	0.00349	1.22528
6.57895	-17.43399	2.63029	-0.18837	-1.29429	0.91415	-0.00318	2.96632	0.23094	0.00318	1.23176
6.73401	-17.56303	2.64421	-0.18352	-1.29542	0.91735	-0.00317	2.95943	0.23177	0.00293	1.23805
6.89180	-17.66634	2.65210	-0.17889	-1.29646	0.91978	-0.00316	2.95793	0.23231	0.00267	1.24463
7.05716	-17.75919	2.65657	-0.17354	-1.29756	0.92175	-0.00315	2.95823	0.23283	0.00235	1.25177
7.22022	-17.86542	2.66502	-0.16835	-1.29870	0.92412	-0.00314	2.95538	0.23348	0.00206	1.25843
7.39098	-17.99221	2.67842	-0.16342	-1.29994	0.92711	-0.00313	2.94997	0.23423	0.00182	1.26475
7.56430	-18.10009	2.68783	-0.15917	-1.30104	0.92962	-0.00312	2.94827	0.23472	0.00160	1.27076
7.73994	-18.17161	2.68819	-0.15455	-1.30200	0.93096	-0.00311	2.95135	0.23499	0.00131	1.27693
7.92393	-18.25937	2.69193	-0.14951	-1.30309	0.93270	-0.00310	2.95178	0.23543	0.00100	1.28277
8.11030	-18.36239	2.69964	-0.14451	-1.30427	0.93487	-0.00309	2.94987	0.23598	0.00073	1.28796
8.29876	-18.48508	2.71267	-0.13993	-1.30557	0.93764	-0.00308	2.94588	0.23661	0.00054	1.29234
8.49618	-18.57080	2.71685	-0.13611	-1.30655	0.93940	-0.00307	2.94744	0.23688	0.00032	1.29680
8.69565	-18.61501	2.71096	-0.13220	-1.30722	0.93993	-0.00307	2.95304	0.23689	0.00002	1.30166
8.90472	-18.68243	2.71012	-0.12782	-1.30808	0.94106	-0.00306	2.95550	0.23710	-0.00028	1.30638
9.11577	-18.75755	2.71142	-0.12349	-1.30899	0.94239	-0.00305	2.95661	0.23737	-0.00056	1.31092
9.32836	-18.86424	2.72046	-0.11879	-1.31022	0.94453	-0.00304	2.95386	0.23792	-0.00079	1.31514
9.54198	-18.95640	2.72697	-0.11517	-1.31125	0.94636	-0.00303	2.95355	0.23825	-0.00097	1.31930
9.76563	-18.97086	2.71519	-0.11318	-1.31136	0.94621	-0.00303	2.96198	0.23785	-0.00121	1.32458
10.00000	-18.98017	2.70176	-0.11109	-1.31135	0.94596	-0.00303	2.97070	0.23737	-0.00149	1.33073

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Median stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 152 - 305 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-1.14028	2.25366	-0.27133	-2.63611	0.88059	-0.00080	7.40967	0.28737	0.01975	0.29659
PGV	9.47514	1.81024	-0.20110	-3.77859	1.00801	0.00044	17.45368	0.25143	0.00201	0.41461
PGA	5.50427	1.56170	-0.09236	-3.37606	0.47117	0.00005	9.11943	0.41560	-0.03102	0.79280
0.01000	5.47041	1.56992	-0.09054	-3.36643	0.44905	0.00005	9.06830	0.42027	-0.01512	0.74109
0.01024	5.48264	1.57020	-0.09034	-3.36841	0.44867	0.00005	9.08170	0.42027	-0.01516	0.74156
0.01048	5.49729	1.57048	-0.09012	-3.37081	0.44836	0.00005	9.09878	0.42022	-0.01519	0.74201
0.01072	5.51445	1.57078	-0.08990	-3.37365	0.44812	0.00005	9.11965	0.42014	-0.01524	0.74243
0.01097	5.53427	1.57110	-0.08967	-3.37695	0.44794	0.00006	9.14450	0.42001	-0.01528	0.74283
0.01123	5.55698	1.57144	-0.08942	-3.38075	0.44781	0.00006	9.17364	0.41984	-0.01533	0.74322
0.01150	5.58284	1.57180	-0.08916	-3.38510	0.44775	0.00006	9.20746	0.41963	-0.01539	0.74360
0.01177	5.61221	1.57220	-0.08887	-3.39006	0.44775	0.00007	9.24644	0.41936	-0.01545	0.74397
0.01205	5.64547	1.57263	-0.08857	-3.39569	0.44781	0.00007	9.29120	0.41904	-0.01552	0.74435
0.01233	5.68316	1.57310	-0.08824	-3.40208	0.44793	0.00008	9.34253	0.41867	-0.01560	0.74474
0.01262	5.72602	1.57363	-0.08788	-3.40937	0.44811	0.00009	9.40155	0.41822	-0.01569	0.74516
0.01292	5.77446	1.57421	-0.08749	-3.41762	0.44836	0.00009	9.46886	0.41770	-0.01578	0.74563
0.01322	5.82846	1.57486	-0.08707	-3.42683	0.44869	0.00010	9.54438	0.41712	-0.01589	0.74614
0.01353	5.88847	1.57557	-0.08660	-3.43706	0.44909	0.00011	9.62884	0.41648	-0.01601	0.74671
0.01385	5.95584	1.57636	-0.08609	-3.44853	0.44956	0.00012	9.72441	0.41575	-0.01613	0.74736
0.01417	6.03244	1.57724	-0.08552	-3.46158	0.45014	0.00013	9.83403	0.41491	-0.01628	0.74811
0.01451	6.11927	1.57823	-0.08489	-3.47636	0.45083	0.00014	9.95931	0.41395	-0.01644	0.74903
0.01485	6.21600	1.57934	-0.08418	-3.49282	0.45158	0.00016	10.09959	0.41290	-0.01663	0.75011
0.01520	6.32226	1.58059	-0.08340	-3.51089	0.45240	0.00017	10.25415	0.41178	-0.01683	0.75135
0.01556	6.43884	1.58201	-0.08253	-3.53068	0.45329	0.00019	10.42466	0.41057	-0.01705	0.75278
0.01592	6.56769	1.58359	-0.08158	-3.55249	0.45424	0.00021	10.61476	0.40927	-0.01729	0.75444
0.01630	6.71085	1.58532	-0.08054	-3.57663	0.45525	0.00023	10.82797	0.40784	-0.01756	0.75639
0.01668	6.86860	1.58723	-0.07941	-3.60315	0.45626	0.00025	11.06480	0.40630	-0.01787	0.75864
0.01707	7.03375	1.58926	-0.07816	-3.63074	0.45698	0.00027	11.31326	0.40478	-0.01822	0.76119
0.01748	7.19587	1.59134	-0.07676	-3.65745	0.45722	0.00029	11.55579	0.40345	-0.01862	0.76416
0.01789	7.35238	1.59350	-0.07520	-3.68281	0.45712	0.00031	11.78802	0.40237	-0.01907	0.76756
0.01831	7.50707	1.59587	-0.07350	-3.70760	0.45697	0.00032	12.01587	0.40146	-0.01954	0.77110
0.01874	7.66248	1.59848	-0.07168	-3.73231	0.45655	0.00033	12.24360	0.40068	-0.02001	0.77466
0.01918	7.81449	1.60115	-0.06980	-3.75611	0.45542	0.00034	12.46467	0.40008	-0.02046	0.77814
0.01963	7.95958	1.60381	-0.06788	-3.77846	0.45368	0.00035	12.67323	0.39967	-0.02088	0.78139
0.02009	8.09082	1.60649	-0.06591	-3.79821	0.45154	0.00036	12.85602	0.39955	-0.02128	0.78457
0.02057	8.19998	1.60913	-0.06386	-3.81389	0.44923	0.00036	12.99794	0.39982	-0.02166	0.78768
0.02105	8.29345	1.61188	-0.06179	-3.82671	0.44694	0.00036	13.11063	0.40039	-0.02204	0.79076
0.02154	8.37111	1.61463	-0.05979	-3.83657	0.44443	0.00035	13.19712	0.40121	-0.02243	0.79399
0.02205	8.41460	1.61696	-0.05786	-3.84006	0.44143	0.00033	13.22722	0.40246	-0.02288	0.79763
0.02257	8.42155	1.61877	-0.05591	-3.83684	0.43753	0.00031	13.19386	0.40421	-0.02335	0.80147
0.02310	8.40246	1.62068	-0.05389	-3.82913	0.43214	0.00029	13.10976	0.40645	-0.02375	0.80483
0.02364	8.33249	1.62296	-0.05174	-3.81294	0.42484	0.00026	12.92743	0.40965	-0.02400	0.80716
0.02420	8.21743	1.62514	-0.04956	-3.78917	0.41609	0.00023	12.66167	0.41360	-0.02412	0.80859
0.02477	8.10904	1.62701	-0.04750	-3.76661	0.40700	0.00020	12.40796	0.41744	-0.02417	0.80951
0.02535	8.00237	1.62873	-0.04554	-3.74439	0.39812	0.00018	12.15801	0.42127	-0.02414	0.80990
0.02595	7.85331	1.63034	-0.04362	-3.71483	0.38942	0.00014	11.83793	0.42578	-0.02403	0.80990
0.02656	7.65873	1.63229	-0.04169	-3.67774	0.38064	0.00010	11.44335	0.43116	-0.02391	0.80984
0.02719	7.45999	1.63453	-0.03982	-3.64016	0.37108	0.00005	11.04725	0.43675	-0.02389	0.81033
0.02783	7.27774	1.63656	-0.03807	-3.60542	0.36068	0.00001	10.68624	0.44211	-0.02397	0.81145
0.02848	7.08643	1.63845	-0.03634	-3.56935	0.35058	-0.00003	10.31732	0.44763	-0.02397	0.81206
0.02915	6.86927	1.64051	-0.03437	-3.52921	0.34255	-0.00008	9.91667	0.45358	-0.02392	0.81234
0.02984	6.63293	1.64288	-0.03206	-3.48596	0.33699	-0.00014	9.50135	0.45988	-0.02392	0.81296
0.03054	6.41997	1.64589	-0.02973	-3.44722	0.33287	-0.00020	9.13394	0.46583	-0.02393	0.81377
0.03126	6.25855	1.64925	-0.02775	-3.41743	0.32790	-0.00025	8.85051	0.47097	-0.02401	0.81507
0.03199	6.11215	1.65240	-0.02611	-3.38942	0.31934	-0.00029	8.59231	0.47611	-0.02417	0.81683
0.03275	5.95118	1.65587	-0.02465	-3.35875	0.30752	-0.00032	8.31170	0.48190	-0.02423	0.81806
0.03352	5.76411	1.66009	-0.02329	-3.32463	0.29447	-0.00036	7.98947	0.48851	-0.02405	0.81774
0.03430	5.54438	1.66422	-0.02189	-3.28580	0.28206	-0.00039	7.62322	0.49584	-0.02359	0.81571
0.03511	5.31537	1.66671	-0.02047	-3.24488	0.27105	-0.00043	7.25864	0.50304	-0.02308	0.81340
0.03594	5.08403	1.66727	-0.01905	-3.20234	0.26060	-0.00047	6.90763	0.51002	-0.02280	0.81264
0.03678	4.85930	1.66714	-0.01780	-3.16060	0.25000	-0.00050	6.57432	0.51691	-0.02268	0.81294
0.03765	4.68041	1.66759	-0.01703	-3.12754	0.24060	-0.00053	6.30511	0.52288	-0.02245	0.81224
0.03854	4.55551	1.66927	-0.01669	-3.10498	0.23411	-0.00054	6.10874	0.52765	-0.02193	0.80940
0.03944	4.44027	1.67196	-0.01635	-3.08462	0.22850	-0.00056	5.92796	0.53238	-0.02111	0.80460
0.04037	4.29467	1.67490	-0.01566	-3.05859	0.22110	-0.00058	5.71475	0.53812	-0.02013	0.79884
0.04132	4.10363	1.67769	-0.01454	-3.02407	0.21204	-0.00062	5.45580	0.54517	-0.01914	0.79319
0.04229	3.88082	1.68049	-0.01323	-2.98388	0.20260	-0.00066	5.17039	0.55318	-0.01831	0.78875
0.04329	3.67037	1.68301	-0.01222	-2.94580	0.19323	-0.00070	4.90762	0.56092	-0.01781	0.78652
0.04431	3.47677	1.68409	-0.01169	-2.90974	0.18330	-0.00073	4.67091	0.56814	-0.01760	0.78633
0.04535	3.27429	1.68357	-0.01130	-2.87086	0.17244	-0.00076	4.43075	0.57563	-0.01754	0.78724

0.04642	3.06248	1.68217	-0.01088	-2.82965	0.16172	-0.00079	4.18600	0.58355	-0.01757	0.78870
0.04751	2.84751	1.68063	-0.01036	-2.78781	0.15183	-0.00082	3.94426	0.59178	-0.01765	0.79015
0.04863	2.62692	1.67950	-0.00956	-2.74521	0.14133	-0.00086	3.70676	0.60044	-0.01776	0.79143
0.04977	2.40741	1.67962	-0.00868	-2.70373	0.12900	-0.00089	3.48106	0.60941	-0.01800	0.79338
0.05094	2.20204	1.68079	-0.00803	-2.66590	0.11557	-0.00091	3.27586	0.61825	-0.01841	0.79629
0.05214	2.01929	1.68240	-0.00775	-2.63296	0.10288	-0.00092	3.09554	0.62651	-0.01873	0.79853
0.05337	1.84237	1.68344	-0.00779	-2.60115	0.09041	-0.00093	2.92457	0.63462	-0.01870	0.79844
0.05462	1.63714	1.68327	-0.00774	-2.56372	0.07617	-0.00095	2.73464	0.64386	-0.01830	0.79608
0.05591	1.42190	1.68150	-0.00762	-2.52364	0.06318	-0.00096	2.54381	0.65340	-0.01772	0.79283
0.05722	1.24757	1.67888	-0.00761	-2.49053	0.05672	-0.00099	2.39429	0.66095	-0.01711	0.78971
0.05857	1.11555	1.67621	-0.00780	-2.46480	0.05459	-0.00101	2.28486	0.66654	-0.01656	0.78717
0.05995	1.00014	1.67227	-0.00825	-2.44067	0.05363	-0.00103	2.19404	0.67113	-0.01614	0.78548
0.06136	0.88187	1.66636	-0.00900	-2.41441	0.05246	-0.00106	2.10459	0.67557	-0.01582	0.78438
0.06280	0.74008	1.65946	-0.01001	-2.38335	0.04784	-0.00107	1.99928	0.68118	-0.01553	0.78360
0.06428	0.58458	1.65246	-0.01142	-2.34998	0.03825	-0.00108	1.88278	0.68804	-0.01525	0.78293
0.06579	0.43045	1.64587	-0.01318	-2.31713	0.02472	-0.00107	1.76612	0.69566	-0.01505	0.78272
0.06734	0.28690	1.64079	-0.01492	-2.28693	0.01228	-0.00106	1.66201	0.70313	-0.01493	0.78290
0.06893	0.18623	1.63850	-0.01678	-2.26619	0.00581	-0.00107	1.59280	0.70844	-0.01472	0.78247
0.07055	0.11635	1.63835	-0.01867	-2.25275	0.00523	-0.00108	1.54776	0.71196	-0.01421	0.78009
0.07221	0.04411	1.63814	-0.02033	-2.23930	0.00906	-0.00111	1.50421	0.71516	-0.01328	0.77453
0.07391	-0.03195	1.63603	-0.02202	-2.22403	0.01374	-0.00114	1.45735	0.71838	-0.01224	0.76777
0.07565	-0.10769	1.63150	-0.02416	-2.20664	0.01459	-0.00115	1.40804	0.72185	-0.01159	0.76371
0.07743	-0.18060	1.62517	-0.02670	-2.18752	0.01200	-0.00115	1.36090	0.72529	-0.01122	0.76185
0.07925	-0.24353	1.62011	-0.02904	-2.17097	0.01009	-0.00116	1.32210	0.72824	-0.01080	0.75961
0.08111	-0.30788	1.61804	-0.03073	-2.15698	0.00969	-0.00117	1.28486	0.73142	-0.01054	0.75818
0.08302	-0.39487	1.61695	-0.03179	-2.13992	0.00902	-0.00119	1.23732	0.73586	-0.01065	0.75924
0.08498	-0.50393	1.61510	-0.03266	-2.11834	0.00641	-0.00121	1.17877	0.74166	-0.01077	0.76049
0.08697	-0.61237	1.61240	-0.03383	-2.09637	0.00206	-0.00122	1.12114	0.74757	-0.01077	0.76098
0.08902	-0.70558	1.60838	-0.03561	-2.07636	-0.00317	-0.00123	1.07264	0.75238	-0.01091	0.76255
0.09112	-0.76504	1.60495	-0.03800	-2.06341	-0.00591	-0.00123	1.04397	0.75471	-0.01120	0.76524
0.09326	-0.79571	1.60300	-0.04074	-2.05712	-0.00482	-0.00125	1.03322	0.75475	-0.01144	0.76783
0.09545	-0.82559	1.59888	-0.04377	-2.04881	-0.00504	-0.00125	1.02286	0.75454	-0.01148	0.76922
0.09770	-0.85364	1.59096	-0.04751	-2.03702	-0.01069	-0.00124	1.00944	0.75457	-0.01113	0.76836
0.10000	-0.86447	1.58209	-0.05198	-2.02735	-0.02020	-0.00121	1.00044	0.75416	-0.01050	0.76588
0.10235	-0.86790	1.57529	-0.05642	-2.02122	-0.02772	-0.00118	0.99507	0.75343	-0.00994	0.76412
0.10476	-0.89483	1.57096	-0.05984	-2.01316	-0.03040	-0.00116	0.98207	0.75379	-0.00993	0.76606
0.10723	-0.93958	1.56760	-0.06235	-2.00243	-0.02855	-0.00117	0.96413	0.75481	-0.01044	0.77130
0.10975	-0.98158	1.56442	-0.06465	-1.99194	-0.02138	-0.00120	0.95043	0.75511	-0.01081	0.77562
0.11233	-1.02077	1.56248	-0.06687	-1.98312	-0.00918	-0.00124	0.94053	0.75479	-0.01060	0.77612
0.11498	-1.07512	1.56222	-0.06879	-1.97368	0.00341	-0.00130	0.92394	0.75545	-0.00988	0.77329
0.11768	-1.14314	1.56176	-0.07078	-1.96212	0.01306	-0.00134	0.90012	0.75711	-0.00904	0.76950
0.12045	-1.18812	1.55950	-0.07368	-1.95333	0.02161	-0.00137	0.88601	0.75718	-0.00853	0.76741
0.12328	-1.19335	1.55577	-0.07765	-1.95063	0.02983	-0.00138	0.88790	0.75476	-0.00831	0.76702
0.12619	-1.18156	1.55077	-0.08232	-1.95027	0.03439	-0.00137	0.89340	0.75177	-0.00789	0.76549
0.12916	-1.16784	1.54545	-0.08723	-1.95014	0.03590	-0.00134	0.89896	0.74876	-0.00705	0.76143
0.13219	-1.13900	1.54129	-0.09218	-1.95378	0.03914	-0.00132	0.91618	0.74407	-0.00621	0.75706
0.13531	-1.08071	1.53808	-0.09724	-1.96355	0.04544	-0.00130	0.95310	0.73662	-0.00581	0.75509
0.13849	-1.00496	1.53430	-0.10226	-1.97586	0.05297	-0.00129	1.00328	0.72752	-0.00583	0.75527
0.14175	-0.93739	1.52993	-0.10685	-1.98593	0.06088	-0.00128	1.05378	0.71870	-0.00606	0.75609
0.14508	-0.89763	1.52649	-0.11078	-1.99150	0.06900	-0.00127	1.09315	0.71178	-0.00627	0.75628
0.14850	-0.88750	1.52503	-0.11418	-1.99312	0.07722	-0.00128	1.11816	0.70714	-0.00625	0.75491
0.15199	-0.90885	1.52534	-0.11704	-1.99024	0.08532	-0.00130	1.12649	0.70482	-0.00587	0.75150
0.15557	-0.97556	1.52537	-0.11927	-1.97860	0.09218	-0.00134	1.10931	0.70540	-0.00528	0.74698
0.15923	-1.08532	1.52304	-0.12132	-1.95708	0.09595	-0.00139	1.06664	0.70862	-0.00470	0.74292
0.16298	-1.20642	1.51847	-0.12373	-1.93180	0.09515	-0.00142	1.01522	0.71279	-0.00424	0.74026
0.16681	-1.32183	1.51353	-0.12644	-1.90724	0.08992	-0.00143	0.96550	0.71715	-0.00373	0.73790
0.17074	-1.43466	1.50929	-0.12929	-1.88337	0.08061	-0.00144	0.91713	0.72205	-0.00273	0.73277
0.17475	-1.56919	1.50520	-0.13220	-1.85507	0.06571	-0.00143	0.85791	0.72930	-0.00107	0.72316
0.17887	-1.73500	1.50080	-0.13510	-1.82030	0.04753	-0.00143	0.78590	0.73938	0.00083	0.71156
0.18307	-1.90630	1.49666	-0.13795	-1.78482	0.03421	-0.00145	0.71684	0.74977	0.00218	0.70332
0.18738	-2.03821	1.49360	-0.14091	-1.75826	0.03268	-0.00149	0.67075	0.75636	0.00241	0.70243
0.19179	-2.09476	1.49218	-0.14427	-1.74820	0.04346	-0.00152	0.65997	0.75600	0.00163	0.70853
0.19631	-2.08683	1.49215	-0.14794	-1.75246	0.05967	-0.00155	0.67736	0.75003	0.00040	0.71814
0.20092	-2.06452	1.49224	-0.15136	-1.75999	0.07194	-0.00154	0.70074	0.74318	-0.00094	0.72872
0.20565	-2.07966	1.49136	-0.15403	-1.75932	0.07417	-0.00152	0.70691	0.73990	-0.00233	0.73979
0.21049	-2.15481	1.48921	-0.15609	-1.74552	0.06449	-0.00149	0.68511	0.74216	-0.00360	0.75025
0.21544	-2.28575	1.48563	-0.15818	-1.71931	0.04518	-0.00145	0.63808	0.74968	-0.00444	0.75781
0.22051	-2.44248	1.48131	-0.16085	-1.68731	0.02551	-0.00144	0.58260	0.75947	-0.00470	0.76123
0.22570	-2.57664	1.47825	-0.16436	-1.66079	0.01686	-0.00146	0.54114	0.76667	-0.00453	0.76137
0.23101	-2.66499	1.47707	-0.16867	-1.64480	0.02133	-0.00150	0.52085	0.76905	-0.00414	0.76015
0.23645	-2.71051	1.47662	-0.17372	-1.63760	0.03335	-0.00154	0.51765	0.76720	-0.00366	0.75866
0.24201	-2.72144	1.47614	-0.17936	-1.63684	0.04827	-0.00158	0.52741	0.76214	-0.00314	0.75729
0.24771	-2.71989	1.47571	-0.18521	-1.63846	0.06182	-0.00161	0.54186	0.75611	-0.00259	0.75607
0.25354	-2.73199	1.47544	-0.19068	-1.63773	0.06926	-0.00162	0.55077	0.75168	-0.00207	0.75504
0.25950	-2.76674	1.47507	-0.19548	-1.63276	0.06956	-0.00162	0.55088	0.74945	-0.00164	0.75468
0.26561	-2.81453	1.47468	-0.19972	-1.62545	0.06765	-0.00161	0.54726	0.74804	-0.00141	0.75563
0.27186	-2.87070	1.47440	-0.20364	-1.61676	0.06889	-0.00161	0.54292	0.74655	-0.00134	0.75784
0.27826	-2.93222	1.47376	-0.20762	-1.60684	0.07466	-0.00164	0.53891	0.74456	-0.00137	0.76084
0.28480	-2.99133	1.47231	-0.21195	-1.59685	0.08340	-0.00168	0.53705	0.74153	-0.00151	0.76440
0.29150	-3.03313	1.47073	-0.21682	-1.59047	0.09481	-0.00172	0.54313	0.73629	-0.00176	0.76807
0.29836	-3.05029	1.47003	-0.22232	-1.58997	0.10911	-0.00176	0.56032	0.72850	-0.00206	0.77151

0.30539	-3.05905	1.47034	-0.22807	-1.59227	0.12439	-0.00179	0.58115	0.72026	-0.00236	0.77449
0.31257	-3.07626	1.47128	-0.23364	-1.59374	0.13830	-0.00181	0.59692	0.71355	-0.00255	0.77673
0.31993	-3.10332	1.47289	-0.23888	-1.59426	0.15031	-0.00182	0.60657	0.70849	-0.00258	0.77807
0.32745	-3.13533	1.47560	-0.24378	-1.59511	0.16133	-0.00183	0.61322	0.70437	-0.00236	0.77824
0.33517	-3.16571	1.47947	-0.24853	-1.59746	0.17263	-0.00184	0.62132	0.70022	-0.00188	0.77717
0.34304	-3.18996	1.48414	-0.25323	-1.60168	0.18390	-0.00185	0.63350	0.69546	-0.00125	0.77545
0.35112	-3.20898	1.48897	-0.25793	-1.60703	0.19339	-0.00185	0.64910	0.69017	-0.00067	0.77423
0.35938	-3.22653	1.49364	-0.26258	-1.61249	0.19999	-0.00185	0.66590	0.68481	-0.00027	0.77425
0.36784	-3.24768	1.49832	-0.26730	-1.61732	0.20308	-0.00183	0.68199	0.67970	0.00002	0.77485
0.37649	-3.27770	1.50289	-0.27232	-1.62052	0.20181	-0.00181	0.69447	0.67524	0.00039	0.77435
0.38536	-3.32237	1.50679	-0.27770	-1.62061	0.19720	-0.00178	0.69960	0.67181	0.00098	0.77179
0.39442	-3.38291	1.50979	-0.28334	-1.61704	0.19171	-0.00175	0.69688	0.66938	0.00176	0.76764
0.40370	-3.45949	1.51224	-0.28901	-1.60991	0.18706	-0.00173	0.68693	0.66793	0.00259	0.76331
0.41321	-3.54902	1.51461	-0.29454	-1.60017	0.18456	-0.00172	0.67176	0.66729	0.00337	0.75973
0.42292	-3.64858	1.51710	-0.29982	-1.58852	0.18543	-0.00174	0.65388	0.66709	0.00402	0.75729
0.43288	-3.75345	1.51955	-0.30487	-1.57560	0.19041	-0.00177	0.63688	0.66658	0.00441	0.75642
0.44307	-3.85612	1.52155	-0.30984	-1.56242	0.19804	-0.00182	0.62395	0.66512	0.00436	0.75800
0.45349	-3.95294	1.52310	-0.31487	-1.54967	0.20589	-0.00186	0.61531	0.66281	0.00376	0.76303
0.46417	-4.04169	1.52466	-0.31989	-1.53847	0.21373	-0.00191	0.61089	0.65975	0.00258	0.77207
0.47508	-4.12577	1.52654	-0.32481	-1.52861	0.22094	-0.00194	0.60867	0.65639	0.00096	0.78468
0.48626	-4.21292	1.52883	-0.32958	-1.51891	0.22493	-0.00196	0.60493	0.65344	-0.00079	0.79867
0.49771	-4.31086	1.53161	-0.33419	-1.50825	0.22297	-0.00197	0.59605	0.65159	-0.00217	0.81048
0.50942	-4.42370	1.53481	-0.33870	-1.49578	0.21417	-0.00195	0.58029	0.65116	-0.00289	0.81809
0.52140	-4.54854	1.53850	-0.34315	-1.48176	0.20070	-0.00192	0.55937	0.65191	-0.00302	0.82212
0.53367	-4.67733	1.54281	-0.34756	-1.46756	0.18662	-0.00189	0.53788	0.65303	-0.00286	0.82480
0.54624	-4.80398	1.54776	-0.35195	-1.45419	0.17517	-0.00187	0.51894	0.65387	-0.00265	0.82788
0.55910	-4.92517	1.55341	-0.35634	-1.44240	0.16845	-0.00187	0.50443	0.65387	-0.00248	0.83175
0.57225	-5.03882	1.55984	-0.36065	-1.43283	0.16761	-0.00188	0.49610	0.65240	-0.00231	0.83590
0.58569	-5.14252	1.56687	-0.36492	-1.42586	0.17280	-0.00191	0.49533	0.64896	-0.00213	0.83983
0.59948	-5.23351	1.57439	-0.36919	-1.42224	0.18426	-0.00195	0.50363	0.64308	-0.00188	0.84325
0.61357	-5.30955	1.58237	-0.37350	-1.42252	0.20151	-0.00201	0.52189	0.63469	-0.00154	0.84583
0.62802	-5.37287	1.59082	-0.37792	-1.42648	0.22318	-0.00207	0.54984	0.62407	-0.00108	0.84726
0.64280	-5.42898	1.59945	-0.38256	-1.43274	0.24627	-0.00213	0.58504	0.61198	-0.00049	0.84747
0.65794	-5.48178	1.60792	-0.38747	-1.44017	0.26841	-0.00218	0.62581	0.59892	0.00012	0.84723
0.67340	-5.53555	1.61588	-0.39254	-1.44747	0.28820	-0.00222	0.66963	0.58553	0.00057	0.84792
0.68927	-5.60014	1.62294	-0.39769	-1.45223	0.30496	-0.00224	0.71049	0.57278	0.00073	0.85046
0.70547	-5.68285	1.62888	-0.40284	-1.45255	0.31852	-0.00227	0.74241	0.56142	0.00062	0.85447
0.72207	-5.78303	1.63415	-0.40802	-1.44909	0.32987	-0.00229	0.76586	0.55118	0.00047	0.85826
0.73910	-5.89527	1.63939	-0.41325	-1.44359	0.34005	-0.00232	0.78470	0.54145	0.00059	0.85966
0.75649	-6.01310	1.64503	-0.41854	-1.43765	0.34957	-0.00234	0.80343	0.53171	0.00117	0.85732
0.77429	-6.13181	1.65121	-0.42380	-1.43226	0.35875	-0.00236	0.82562	0.52160	0.00219	0.85126
0.79246	-6.24886	1.65776	-0.42889	-1.42762	0.36776	-0.00238	0.85236	0.51110	0.00351	0.84214
0.81116	-6.36488	1.66456	-0.43374	-1.42339	0.37669	-0.00239	0.88392	0.50025	0.00508	0.83061
0.83022	-6.47976	1.67159	-0.43823	-1.41921	0.38511	-0.00240	0.91859	0.48949	0.00680	0.81762
0.84976	-6.59625	1.67905	-0.44231	-1.41465	0.39230	-0.00241	0.95394	0.47923	0.00855	0.80435
0.86972	-6.71569	1.68703	-0.44597	-1.40941	0.39762	-0.00242	0.98657	0.46996	0.01018	0.79220
0.89023	-6.83899	1.69552	-0.44929	-1.40335	0.40114	-0.00242	1.01485	0.46179	0.01162	0.78195
0.91116	-6.96181	1.70435	-0.45232	-1.39715	0.40403	-0.00241	1.04014	0.45455	0.01283	0.77404
0.93257	-7.07987	1.71353	-0.45517	-1.39174	0.40793	-0.00241	1.06544	0.44793	0.01382	0.76859
0.95456	-7.19120	1.72313	-0.45786	-1.38761	0.41362	-0.00240	1.09178	0.44192	0.01453	0.76611
0.97704	-7.29647	1.73317	-0.46037	-1.38452	0.42081	-0.00240	1.11681	0.43684	0.01484	0.76729
1.00000	-7.39744	1.74369	-0.46268	-1.38208	0.42889	-0.00240	1.13811	0.43293	0.01472	0.77229
1.02354	-7.49703	1.75477	-0.46480	-1.37976	0.43722	-0.00241	1.15332	0.43033	0.01422	0.78060
1.04767	-7.59678	1.76636	-0.46675	-1.37722	0.44540	-0.00241	1.16137	0.42904	0.01344	0.79127
1.07227	-7.69673	1.77832	-0.46857	-1.37434	0.45320	-0.00242	1.16223	0.42893	0.01251	0.80318
1.09745	-7.79681	1.79056	-0.47031	-1.37116	0.46066	-0.00243	1.15682	0.42983	0.01153	0.81553
1.12334	-7.89748	1.80302	-0.47203	-1.36764	0.46772	-0.00243	1.14532	0.43165	0.01057	0.82782
1.14982	-7.99868	1.81559	-0.47370	-1.36377	0.47415	-0.00244	1.12776	0.43436	0.00969	0.83954
1.17675	-8.10092	1.82818	-0.47533	-1.35940	0.47947	-0.00245	1.10389	0.43793	0.00892	0.85018
1.20453	-8.20622	1.84100	-0.47691	-1.35450	0.48353	-0.00246	1.07409	0.44232	0.00830	0.85957
1.23289	-8.31318	1.85393	-0.47841	-1.34923	0.48627	-0.00246	1.04034	0.44728	0.00781	0.86739
1.26183	-8.42094	1.86689	-0.47984	-1.34378	0.48789	-0.00246	1.00469	0.45251	0.00745	0.87368
1.29149	-8.52908	1.87983	-0.48124	-1.33822	0.48873	-0.00245	0.96888	0.45777	0.00719	0.87863
1.32188	-8.63729	1.89266	-0.48263	-1.33255	0.48913	-0.00245	0.93386	0.46287	0.00703	0.88235
1.35300	-8.74643	1.90528	-0.48403	-1.32647	0.48916	-0.00245	0.89923	0.46783	0.00700	0.88481
1.38485	-8.85652	1.91761	-0.48549	-1.31994	0.48931	-0.00245	0.86540	0.47258	0.00712	0.88611
1.41743	-8.96814	1.92964	-0.48702	-1.31287	0.48979	-0.00246	0.83229	0.47711	0.00739	0.88637
1.45075	-9.08138	1.94142	-0.48864	-1.30539	0.49104	-0.00248	0.80030	0.48136	0.00782	0.88572
1.48500	-9.19672	1.95309	-0.49034	-1.29764	0.49339	-0.00251	0.76997	0.48524	0.00840	0.88440
1.51999	-9.31332	1.96463	-0.49211	-1.28989	0.49688	-0.00254	0.74205	0.48857	0.00907	0.88279
1.55569	-9.43075	1.97612	-0.49391	-1.28241	0.50119	-0.00258	0.71731	0.49121	0.00979	0.88135
1.59236	-9.54819	1.98772	-0.49572	-1.27572	0.50637	-0.00262	0.69745	0.49278	0.01052	0.88049
1.62973	-9.66258	1.99938	-0.49747	-1.27058	0.51286	-0.00267	0.68518	0.49272	0.01120	0.88050
1.66806	-9.77400	2.01126	-0.49916	-1.26726	0.52075	-0.00271	0.68200	0.49064	0.01187	0.88135
1.70736	-9.88113	2.02330	-0.50072	-1.26618	0.53081	-0.00275	0.69015	0.48608	0.01252	0.88298
1.74764	-9.98315	2.03540	-0.50208	-1.26748	0.54344	-0.00280	0.71158	0.47871	0.01317	0.88536
1.78859	-10.07911	2.04726	-0.50319	-1.27102	0.55850	-0.00284	0.74755	0.46853	0.01377	0.88861
1.83083	-10.17252	2.05894	-0.50401	-1.27624	0.57550	-0.00289	0.79870	0.45571	0.01433	0.89275
1.87371	-10.26466	2.07024	-0.50446	-1.28239	0.59340	-0.00293	0.86384	0.44096	0.01489	0.89744
1.91791	-10.35850	2.08135	-0.50447	-1.28918	0.61235	-0.00296	0.94461	0.42440	0.01547	0.90238
1.96309	-10.45378	2.09213	-0.50395	-1.29639	0.63204	-0.00300	1.04186	0.40645	0.01606	0.90744

2.00924	-10.55084	2.10263	-0.50281	-1.30390	0.65220	-0.00304	1.15665	0.38747	0.01662	0.91258
2.05634	-10.64850	2.11287	-0.50101	-1.31193	0.67312	-0.00307	1.29154	0.36769	0.01716	0.91764
2.10482	-10.74745	2.12304	-0.49850	-1.32058	0.69501	-0.00310	1.44885	0.34735	0.01768	0.92231
2.15424	-10.84731	2.13309	-0.49529	-1.32959	0.71716	-0.00313	1.62661	0.32709	0.01821	0.92619
2.20507	-10.95081	2.14307	-0.49141	-1.33845	0.73890	-0.00316	1.82284	0.30722	0.01875	0.92912
2.25683	-11.05894	2.15288	-0.48694	-1.34643	0.75924	-0.00318	2.03053	0.28832	0.01932	0.93106
2.31000	-11.17461	2.16260	-0.48194	-1.35301	0.77764	-0.00320	2.24551	0.27047	0.01991	0.93211
2.36463	-11.29787	2.17225	-0.47653	-1.35802	0.79392	-0.00322	2.46351	0.25377	0.02051	0.93239
2.42014	-11.42692	2.18184	-0.47086	-1.36155	0.80782	-0.00323	2.67791	0.23850	0.02114	0.93189
2.47709	-11.56268	2.19159	-0.46493	-1.36378	0.81962	-0.00324	2.88583	0.22464	0.02183	0.93057
2.53550	-11.70408	2.20160	-0.45880	-1.36495	0.82984	-0.00325	3.08350	0.21222	0.02257	0.92864
2.59471	-11.84808	2.21178	-0.45261	-1.36531	0.83887	-0.00326	3.26596	0.20137	0.02329	0.92666
2.65604	-11.99653	2.22229	-0.44624	-1.36504	0.84725	-0.00326	3.43409	0.19190	0.02393	0.92517
2.71887	-12.14663	2.23296	-0.43986	-1.36425	0.85489	-0.00327	3.58360	0.18385	0.02441	0.92472
2.78242	-12.29552	2.24362	-0.43355	-1.36314	0.86192	-0.00328	3.71309	0.17719	0.02471	0.92555
2.84819	-12.44656	2.25444	-0.42720	-1.36162	0.86842	-0.00328	3.82404	0.17168	0.02485	0.92782
2.91545	-12.59836	2.26541	-0.42090	-1.35968	0.87416	-0.00329	3.91356	0.16731	0.02482	0.93161
2.98329	-12.74901	2.27623	-0.41472	-1.35726	0.87892	-0.00329	3.97935	0.16408	0.02465	0.93672
3.05344	-12.90168	2.28734	-0.40856	-1.35449	0.88304	-0.00330	4.02489	0.16180	0.02435	0.94306
3.12598	-13.05590	2.29854	-0.40241	-1.35140	0.88644	-0.00330	4.05096	0.16040	0.02393	0.95040
3.19898	-13.20685	2.30959	-0.39650	-1.34820	0.88924	-0.00330	4.05978	0.15979	0.02341	0.95822
3.27439	-13.35861	2.32069	-0.39060	-1.34481	0.89156	-0.00330	4.05332	0.15986	0.02280	0.96631
3.35121	-13.50827	2.33172	-0.38488	-1.34143	0.89350	-0.00330	4.03496	0.16048	0.02214	0.97426
3.43053	-13.65824	2.34278	-0.37915	-1.33800	0.89511	-0.00329	4.00601	0.16161	0.02143	0.98228
3.51124	-13.80556	2.35377	-0.37359	-1.33470	0.89655	-0.00329	3.97047	0.16307	0.02070	0.99038
3.59324	-13.95001	2.36449	-0.36809	-1.33155	0.89781	-0.00329	3.92997	0.16484	0.01996	0.99880
3.67782	-14.09416	2.37551	-0.36267	-1.32860	0.89910	-0.00328	3.88644	0.16680	0.01922	1.00791
3.76506	-14.23664	2.38612	-0.35718	-1.32577	0.90025	-0.00328	3.84064	0.16895	0.01847	1.01805
3.85356	-14.37794	2.39720	-0.35186	-1.32321	0.90147	-0.00327	3.79398	0.17119	0.01773	1.02894
3.94477	-14.51615	2.40754	-0.34649	-1.32074	0.90257	-0.00327	3.74749	0.17350	0.01701	1.04054
4.03714	-14.65433	2.41850	-0.34121	-1.31851	0.90372	-0.00326	3.70019	0.17588	0.01630	1.05235
4.13223	-14.78964	2.42896	-0.33598	-1.31642	0.90486	-0.00325	3.65486	0.17823	0.01562	1.06425
4.23012	-14.92509	2.43941	-0.33063	-1.31443	0.90592	-0.00325	3.60902	0.18065	0.01496	1.07593
4.32900	-15.06000	2.45051	-0.32548	-1.31266	0.90712	-0.00324	3.56445	0.18301	0.01434	1.08678
4.43066	-15.18955	2.46021	-0.32025	-1.31094	0.90811	-0.00323	3.52254	0.18531	0.01374	1.09701
4.53515	-15.32393	2.47125	-0.31497	-1.30938	0.90922	-0.00322	3.47917	0.18770	0.01316	1.10660
4.64253	-15.45603	2.48205	-0.30982	-1.30797	0.91041	-0.00321	3.43865	0.18998	0.01261	1.11552
4.75059	-15.58103	2.49139	-0.30463	-1.30664	0.91134	-0.00320	3.40060	0.19219	0.01208	1.12378
4.86145	-15.71357	2.50284	-0.29942	-1.30546	0.91253	-0.00319	3.36069	0.19449	0.01156	1.13148
4.97760	-15.84289	2.51335	-0.29427	-1.30440	0.91371	-0.00319	3.32441	0.19665	0.01106	1.13882
5.09424	-15.96516	2.52244	-0.28905	-1.30342	0.91463	-0.00318	3.29041	0.19875	0.01056	1.14570
5.21376	-16.09748	2.53422	-0.28380	-1.30258	0.91589	-0.00317	3.25413	0.20095	0.01008	1.15215
5.33618	-16.22291	2.54470	-0.27879	-1.30187	0.91713	-0.00316	3.22275	0.20291	0.00963	1.15828
5.46150	-16.33959	2.55295	-0.27366	-1.30122	0.91803	-0.00315	3.19442	0.20478	0.00916	1.16438
5.58971	-16.46849	2.56427	-0.26836	-1.30068	0.91924	-0.00313	3.16282	0.20681	0.00870	1.17037
5.72082	-16.59722	2.57602	-0.26334	-1.30025	0.92066	-0.00312	3.13390	0.20867	0.00828	1.17627
5.85823	-16.70999	2.58351	-0.25831	-1.29988	0.92158	-0.00311	3.11099	0.21029	0.00783	1.18262
5.99520	-16.82860	2.59280	-0.25310	-1.29959	0.92259	-0.00310	3.08584	0.21204	0.00739	1.18900
6.13497	-16.96047	2.60558	-0.24790	-1.29940	0.92406	-0.00309	3.05853	0.21385	0.00698	1.19532
6.28141	-17.07768	2.61486	-0.24308	-1.29928	0.92529	-0.00308	3.03796	0.21532	0.00659	1.20191
6.42674	-17.17821	2.62059	-0.23832	-1.29920	0.92601	-0.00307	3.02116	0.21665	0.00618	1.20867
6.57895	-17.29812	2.63041	-0.23307	-1.29919	0.92710	-0.00306	2.99947	0.21823	0.00577	1.21568
6.73401	-17.43160	2.64382	-0.22787	-1.29926	0.92867	-0.00304	2.97611	0.21984	0.00541	1.22256
6.89180	-17.53699	2.65119	-0.22345	-1.29938	0.92974	-0.00303	2.96175	0.22098	0.00507	1.22954
7.05716	-17.62947	2.65496	-0.21888	-1.29952	0.93029	-0.00302	2.94990	0.22205	0.00468	1.23698
7.22022	-17.73704	2.66280	-0.21402	-1.29971	0.93119	-0.00301	2.93393	0.22332	0.00432	1.24403
7.39098	-17.86794	2.67577	-0.20878	-1.29998	0.93265	-0.00300	2.91402	0.22476	0.00398	1.25086
7.56430	-17.97875	2.68483	-0.20446	-1.30028	0.93391	-0.00299	2.90086	0.22580	0.00370	1.25723
7.73994	-18.04790	2.68455	-0.20092	-1.30054	0.93416	-0.00298	2.89618	0.22642	0.00338	1.26349
7.92393	-18.13436	2.68765	-0.19670	-1.30085	0.93463	-0.00297	2.88705	0.22729	0.00304	1.26950
8.11030	-18.23816	2.69483	-0.19206	-1.30122	0.93545	-0.00296	2.87434	0.22835	0.00273	1.27495
8.29876	-18.36530	2.70759	-0.18709	-1.30164	0.93684	-0.00294	2.85790	0.22958	0.00245	1.27973
8.49618	-18.45125	2.71141	-0.18369	-1.30204	0.93761	-0.00293	2.85197	0.23019	0.00221	1.28432
8.69565	-18.48923	2.70482	-0.18146	-1.30235	0.93739	-0.00293	2.85460	0.23033	0.00194	1.28900
8.90472	-18.55271	2.70335	-0.17833	-1.30272	0.93753	-0.00292	2.85147	0.23080	0.00165	1.29365
9.11577	-18.62504	2.70409	-0.17498	-1.30311	0.93783	-0.00291	2.84644	0.23136	0.00138	1.29816
9.32836	-18.73322	2.71274	-0.17040	-1.30363	0.93871	-0.00290	2.83416	0.23236	0.00111	1.30259
9.54198	-18.82674	2.71900	-0.16690	-1.30411	0.93958	-0.00289	2.82658	0.23303	0.00090	1.30690
9.76563	-18.83273	2.70670	-0.16688	-1.30432	0.93920	-0.00288	2.83724	0.23254	0.00073	1.31175
10.00000	-18.83215	2.69275	-0.16707	-1.30452	0.93870	-0.00288	2.84895	0.23197	0.00056	1.31735

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Median stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 305 - 610 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-1.91922	2.37783	-0.26209	-2.58762	0.94553	-0.00122	7.23791	0.28849	0.02325	0.28371
PGV	9.53818	1.90474	-0.16817	-3.88963	1.16221	0.00007	19.29381	0.23759	-0.00162	0.44157
PGA	4.44894	1.58599	-0.07828	-3.21262	0.58476	-0.00070	7.96933	0.42724	-0.03391	0.81814
0.01000	4.38335	1.59452	-0.07645	-3.19770	0.56101	-0.00071	7.87616	0.43266	-0.01984	0.77451
0.01024	4.39110	1.59481	-0.07623	-3.19888	0.56045	-0.00071	7.88221	0.43275	-0.01989	0.77506
0.01048	4.40120	1.59510	-0.07600	-3.20048	0.55997	-0.00071	7.89175	0.43279	-0.01994	0.77558
0.01072	4.41367	1.59541	-0.07575	-3.20250	0.55958	-0.00071	7.90474	0.43279	-0.02000	0.77609
0.01097	4.42854	1.59573	-0.07550	-3.20493	0.55924	-0.00070	7.92119	0.43274	-0.02006	0.77657
0.01123	4.44593	1.59607	-0.07523	-3.20779	0.55897	-0.00070	7.94125	0.43265	-0.02012	0.77705
0.01150	4.46608	1.59644	-0.07493	-3.21114	0.55876	-0.00070	7.96522	0.43252	-0.02020	0.77752
0.01177	4.48936	1.59683	-0.07462	-3.21502	0.55860	-0.00070	7.99361	0.43233	-0.02028	0.77801
0.01205	4.51611	1.59725	-0.07429	-3.21950	0.55851	-0.00069	8.02693	0.43209	-0.02036	0.77851
0.01233	4.54679	1.59772	-0.07393	-3.22467	0.55848	-0.00069	8.06579	0.43179	-0.02046	0.77904
0.01262	4.58185	1.59823	-0.07354	-3.23059	0.55851	-0.00068	8.11085	0.43142	-0.02057	0.77962
0.01292	4.62166	1.59879	-0.07311	-3.23733	0.55859	-0.00068	8.16260	0.43099	-0.02070	0.78026
0.01322	4.66656	1.59941	-0.07264	-3.24494	0.55873	-0.00067	8.22155	0.43049	-0.02083	0.78096
0.01353	4.71725	1.60009	-0.07213	-3.25353	0.55891	-0.00066	8.28868	0.42991	-0.02098	0.78176
0.01385	4.77476	1.60086	-0.07156	-3.26329	0.55914	-0.00065	8.36555	0.42925	-0.02115	0.78268
0.01417	4.83962	1.60171	-0.07093	-3.27429	0.55945	-0.00064	8.45298	0.42850	-0.02134	0.78374
0.01451	4.91174	1.60266	-0.07024	-3.28650	0.55984	-0.00063	8.55084	0.42766	-0.02155	0.78496
0.01485	4.99133	1.60372	-0.06946	-3.29996	0.56029	-0.00062	8.65951	0.42675	-0.02179	0.78640
0.01520	5.07855	1.60488	-0.06860	-3.31467	0.56083	-0.00061	8.77919	0.42577	-0.02206	0.78808
0.01556	5.17441	1.60617	-0.06766	-3.33081	0.56146	-0.00060	8.91160	0.42471	-0.02235	0.79000
0.01592	5.28129	1.60760	-0.06662	-3.34877	0.56221	-0.00058	9.06072	0.42353	-0.02268	0.79222
0.01630	5.40107	1.60920	-0.06547	-3.36884	0.56300	-0.00057	9.22940	0.42222	-0.02306	0.79483
0.01668	5.53332	1.61093	-0.06419	-3.39092	0.56365	-0.00055	9.41671	0.42081	-0.02348	0.79779
0.01707	5.67442	1.61280	-0.06278	-3.41434	0.56407	-0.00053	9.61674	0.41939	-0.02392	0.80100
0.01748	5.81704	1.61479	-0.06122	-3.43776	0.56408	-0.00051	9.81794	0.41810	-0.02439	0.80439
0.01789	5.95808	1.61697	-0.05952	-3.46066	0.56377	-0.00049	10.01588	0.41699	-0.02488	0.80803
0.01831	6.09752	1.61935	-0.05768	-3.48305	0.56343	-0.00048	10.21160	0.41603	-0.02540	0.81192
0.01874	6.22890	1.62183	-0.05573	-3.50372	0.56304	-0.00047	10.39507	0.41531	-0.02593	0.81588
0.01918	6.35013	1.62431	-0.05371	-3.52230	0.56239	-0.00047	10.56249	0.41484	-0.02646	0.81980
0.01963	6.46768	1.62690	-0.05165	-3.54005	0.56118	-0.00046	10.72355	0.41454	-0.02701	0.82385
0.02009	6.57289	1.62976	-0.04955	-3.55555	0.55902	-0.00046	10.86185	0.41459	-0.02756	0.82797
0.02057	6.65560	1.63284	-0.04737	-3.56702	0.55619	-0.00046	10.95977	0.41515	-0.02804	0.83176
0.02105	6.71834	1.63594	-0.04514	-3.57486	0.55316	-0.00047	11.02171	0.41612	-0.02846	0.83515
0.02154	6.75867	1.63891	-0.04286	-3.57865	0.55001	-0.00049	11.04336	0.41749	-0.02885	0.83835
0.02205	6.79648	1.64181	-0.04062	-3.58199	0.54682	-0.00050	11.05891	0.41891	-0.02923	0.84153
0.02257	6.82751	1.64467	-0.03841	-3.58430	0.54326	-0.00051	11.06106	0.42044	-0.02957	0.84444
0.02310	6.81904	1.64769	-0.03619	-3.58024	0.53850	-0.00053	10.98870	0.42274	-0.02975	0.84628
0.02364	6.75601	1.65078	-0.03397	-3.56698	0.53195	-0.00055	10.81894	0.42608	-0.02973	0.84680
0.02420	6.64850	1.65344	-0.03181	-3.54554	0.52345	-0.00058	10.57995	0.43019	-0.02967	0.84694
0.02477	6.51690	1.65584	-0.02966	-3.51944	0.51433	-0.00061	10.31121	0.43471	-0.02970	0.84761
0.02535	6.37368	1.65817	-0.02743	-3.49111	0.50585	-0.00065	10.03352	0.43942	-0.02992	0.84948
0.02595	6.22584	1.66084	-0.02506	-3.46213	0.49849	-0.00070	9.75541	0.44425	-0.03023	0.85189
0.02656	6.09118	1.66445	-0.02269	-3.43612	0.49255	-0.00074	9.50044	0.44898	-0.03037	0.85331
0.02719	5.97546	1.66907	-0.02042	-3.41423	0.48691	-0.00079	9.27269	0.45359	-0.03022	0.85284
0.02783	5.84441	1.67394	-0.01819	-3.39007	0.47973	-0.00083	9.02089	0.45864	-0.02981	0.85076
0.02848	5.68077	1.67863	-0.01583	-3.36021	0.47140	-0.00088	8.72538	0.46435	-0.02937	0.84837
0.02915	5.48041	1.68291	-0.01335	-3.32377	0.46177	-0.00093	8.38168	0.47085	-0.02903	0.84664
0.02984	5.25250	1.68642	-0.01100	-3.28226	0.44990	-0.00098	8.00028	0.47808	-0.02880	0.84578
0.03054	5.01562	1.68912	-0.00887	-3.23886	0.43724	-0.00102	7.61080	0.48564	-0.02877	0.84655
0.03126	4.79410	1.69124	-0.00706	-3.19804	0.42537	-0.00106	7.25025	0.49294	-0.02897	0.84903
0.03199	4.62607	1.69314	-0.00572	-3.16683	0.41504	-0.00108	6.97034	0.49901	-0.02919	0.85168
0.03275	4.48295	1.69509	-0.00454	-3.14026	0.40557	-0.00110	6.73073	0.50451	-0.02923	0.85313
0.03352	4.32370	1.69707	-0.00317	-3.11099	0.39693	-0.00112	6.47904	0.51033	-0.02917	0.85386
0.03430	4.12868	1.69994	-0.00126	-3.07597	0.38906	-0.00116	6.19061	0.51718	-0.02903	0.85412
0.03511	3.91639	1.70429	0.00108	-3.03886	0.38121	-0.00121	5.88495	0.52489	-0.02866	0.85275
0.03594	3.70834	1.70897	0.00341	-3.00289	0.37271	-0.00125	5.58801	0.53282	-0.02800	0.84949
0.03678	3.47901	1.71311	0.00572	-2.96298	0.36285	-0.00129	5.27425	0.54146	-0.02731	0.84594
0.03765	3.23211	1.71689	0.00803	-2.91994	0.35207	-0.00134	4.95042	0.55076	-0.02674	0.84330
0.03854	2.98785	1.72057	0.01021	-2.87744	0.34089	-0.00138	4.64215	0.56018	-0.02631	0.84173
0.03944	2.77249	1.72283	0.01188	-2.83883	0.32943	-0.00141	4.38105	0.56865	-0.02604	0.84115
0.04037	2.56515	1.72335	0.01323	-2.80000	0.31783	-0.00144	4.14370	0.57664	-0.02585	0.84099
0.04132	2.34871	1.72378	0.01460	-2.75949	0.30600	-0.00147	3.90359	0.58515	-0.02565	0.84062
0.04229	2.14739	1.72496	0.01584	-2.72261	0.29395	-0.00149	3.67860	0.59372	-0.02532	0.83930
0.04329	1.96615	1.72609	0.01680	-2.68967	0.28189	-0.00151	3.47702	0.60183	-0.02480	0.83655
0.04431	1.79438	1.72631	0.01747	-2.65796	0.27006	-0.00152	3.29079	0.60960	-0.02432	0.83381
0.04535	1.63692	1.72502	0.01775	-2.62757	0.25916	-0.00154	3.12478	0.61673	-0.02408	0.83264

0.04642	1.48624	1.72365	0.01789	-2.59795	0.24924	-0.00155	2.97393	0.62358	-0.02411	0.83343
0.04751	1.33386	1.72356	0.01817	-2.56864	0.24003	-0.00157	2.83126	0.63059	-0.02426	0.83498
0.04863	1.17548	1.72446	0.01877	-2.53871	0.23206	-0.00160	2.69390	0.63777	-0.02433	0.83574
0.04977	1.00992	1.72518	0.01957	-2.50739	0.22569	-0.00164	2.55844	0.64507	-0.02447	0.83694
0.05094	0.83024	1.72393	0.02033	-2.47214	0.21941	-0.00168	2.41682	0.65276	-0.02482	0.83941
0.05214	0.63539	1.72065	0.02099	-2.43250	0.21079	-0.00171	2.26580	0.66127	-0.02514	0.84142
0.05337	0.46346	1.71716	0.02128	-2.39682	0.20099	-0.00174	2.13177	0.66936	-0.02507	0.84088
0.05462	0.34859	1.71503	0.02096	-2.37296	0.19435	-0.00175	2.03822	0.67533	-0.02443	0.83688
0.05591	0.28015	1.71432	0.02004	-2.35889	0.19065	-0.00176	1.97865	0.67933	-0.02337	0.83037
0.05722	0.21401	1.71341	0.01883	-2.34503	0.18600	-0.00177	1.92287	0.68321	-0.02219	0.82322
0.05857	0.13449	1.71138	0.01746	-2.32799	0.17960	-0.00177	1.85900	0.68765	-0.02127	0.81792
0.05995	0.05295	1.70871	0.01591	-2.31027	0.17342	-0.00177	1.79536	0.69206	-0.02066	0.81477
0.06136	-0.02576	1.70567	0.01427	-2.29285	0.17018	-0.00178	1.73869	0.69582	-0.02022	0.81277
0.06280	-0.08834	1.70161	0.01225	-2.27745	0.16901	-0.00179	1.69566	0.69838	-0.01993	0.81190
0.06428	-0.13898	1.69606	0.00978	-2.26281	0.16695	-0.00180	1.65921	0.70036	-0.01974	0.81197
0.06579	-0.21228	1.68937	0.00739	-2.24339	0.16200	-0.00180	1.60475	0.70383	-0.01967	0.81274
0.06734	-0.31261	1.68238	0.00539	-2.21928	0.15396	-0.00180	1.53036	0.70926	-0.01974	0.81436
0.06893	-0.41794	1.67611	0.00374	-2.19505	0.14606	-0.00179	1.45396	0.71527	-0.01965	0.81481
0.07055	-0.51050	1.67062	0.00206	-2.17391	0.14118	-0.00179	1.38735	0.72061	-0.01920	0.81272
0.07221	-0.59940	1.66575	0.00031	-2.15377	0.13885	-0.00180	1.32682	0.72559	-0.01861	0.80958
0.07391	-0.69753	1.66147	-0.00134	-2.13197	0.13667	-0.00181	1.26664	0.73090	-0.01813	0.80701
0.07565	-0.80429	1.65822	-0.00268	-2.10954	0.13539	-0.00184	1.20581	0.73660	-0.01781	0.80513
0.07743	-0.90823	1.65443	-0.00411	-2.08771	0.13592	-0.00186	1.14915	0.74184	-0.01750	0.80327
0.07925	-0.98252	1.64941	-0.00611	-2.07042	0.13831	-0.00188	1.11028	0.74494	-0.01720	0.80153
0.08111	-1.01280	1.64628	-0.00856	-2.06257	0.14256	-0.00190	1.09474	0.74558	-0.01675	0.79913
0.08302	-1.03177	1.64601	-0.01100	-2.05917	0.14742	-0.00190	1.08499	0.74595	-0.01617	0.79621
0.08498	-1.05326	1.64491	-0.01364	-2.05490	0.15083	-0.00191	1.07092	0.74678	-0.01563	0.79389
0.08697	-1.08446	1.64116	-0.01648	-2.04691	0.15003	-0.00189	1.04775	0.74855	-0.01530	0.79259
0.08902	-1.13992	1.63602	-0.01930	-2.03317	0.14300	-0.00187	1.01098	0.75219	-0.01516	0.79202
0.09112	-1.21096	1.63053	-0.02228	-2.01577	0.13130	-0.00185	0.96760	0.75709	-0.01495	0.79127
0.09326	-1.27354	1.62626	-0.02545	-2.00053	0.12195	-0.00184	0.93313	0.76108	-0.01457	0.79007
0.09545	-1.32058	1.62382	-0.02859	-1.98951	0.11770	-0.00184	0.91127	0.76347	-0.01441	0.79040
0.09770	-1.35176	1.62247	-0.03175	-1.98251	0.11561	-0.00184	0.89822	0.76465	-0.01450	0.79220
0.10000	-1.38287	1.62142	-0.03470	-1.97637	0.11345	-0.00184	0.88407	0.76589	-0.01445	0.79289
0.10235	-1.42802	1.61955	-0.03733	-1.96751	0.11151	-0.00184	0.86337	0.76783	-0.01441	0.79375
0.10476	-1.47854	1.61753	-0.03973	-1.95798	0.11225	-0.00185	0.84128	0.76985	-0.01466	0.79737
0.10723	-1.52802	1.61613	-0.04206	-1.94911	0.11437	-0.00187	0.82029	0.77188	-0.01514	0.80347
0.10975	-1.57659	1.61395	-0.04459	-1.93936	0.11421	-0.00188	0.80113	0.77377	-0.01553	0.80922
0.11233	-1.62196	1.61035	-0.04730	-1.92907	0.11331	-0.00188	0.78518	0.77500	-0.01557	0.81229
0.11498	-1.65847	1.60548	-0.05032	-1.91963	0.11470	-0.00188	0.77313	0.77527	-0.01532	0.81314
0.11768	-1.69425	1.59909	-0.05380	-1.90882	0.11683	-0.00189	0.76056	0.77541	-0.01493	0.81302
0.12045	-1.75997	1.59133	-0.05699	-1.89072	0.11523	-0.00190	0.73528	0.77781	-0.01437	0.81148
0.12328	-1.84172	1.58253	-0.06004	-1.86816	0.10977	-0.00191	0.70361	0.78159	-0.01369	0.80871
0.12619	-1.89074	1.57369	-0.06398	-1.85132	0.10478	-0.00190	0.68483	0.78311	-0.01300	0.80552
0.12916	-1.90988	1.56540	-0.06859	-1.84035	0.10288	-0.00190	0.67844	0.78222	-0.01213	0.80047
0.13219	-1.93278	1.55858	-0.07273	-1.83001	0.10481	-0.00190	0.67306	0.78119	-0.01100	0.79288
0.13531	-1.97162	1.55337	-0.07622	-1.81834	0.10846	-0.00191	0.66305	0.78127	-0.00991	0.78510
0.13849	-2.02109	1.54879	-0.07970	-1.80555	0.10653	-0.00191	0.64667	0.78301	-0.00909	0.77889
0.14175	-2.07147	1.54490	-0.08342	-1.79364	0.09837	-0.00189	0.62725	0.78574	-0.00863	0.77471
0.14508	-2.11654	1.54214	-0.08707	-1.78431	0.09178	-0.00187	0.61092	0.78785	-0.00846	0.77254
0.14850	-2.15428	1.53999	-0.09061	-1.77696	0.08912	-0.00186	0.60080	0.78848	-0.00838	0.77132
0.15199	-2.16390	1.53802	-0.09469	-1.77439	0.09014	-0.00185	0.60487	0.78600	-0.00804	0.76856
0.15557	-2.13342	1.53622	-0.09968	-1.77882	0.09516	-0.00185	0.62695	0.77967	-0.00742	0.76344
0.15923	-2.09464	1.53425	-0.10504	-1.78461	0.10066	-0.00185	0.65269	0.77275	-0.00666	0.75732
0.16298	-2.07304	1.53270	-0.11008	-1.78765	0.10506	-0.00185	0.67146	0.76754	-0.00584	0.75111
0.16681	-2.05990	1.53209	-0.11469	-1.78969	0.11115	-0.00185	0.68838	0.76297	-0.00506	0.74566
0.17074	-2.05312	1.53128	-0.11912	-1.79023	0.11877	-0.00186	0.70346	0.75875	-0.00455	0.74223
0.17475	-2.07810	1.53049	-0.12291	-1.78551	0.12699	-0.00189	0.70450	0.75695	-0.00435	0.74081
0.17887	-2.14171	1.53030	-0.12568	-1.77521	0.13552	-0.00192	0.68816	0.75822	-0.00454	0.74187
0.18307	-2.21029	1.52971	-0.12833	-1.76431	0.14415	-0.00195	0.67001	0.75960	-0.00503	0.74547
0.18738	-2.24478	1.52666	-0.13210	-1.75755	0.15433	-0.00197	0.66803	0.75726	-0.00566	0.75075
0.19179	-2.23238	1.52182	-0.13708	-1.75763	0.16755	-0.00199	0.68833	0.75023	-0.00634	0.75693
0.19631	-2.20354	1.51901	-0.14210	-1.76235	0.18109	-0.00201	0.71914	0.74183	-0.00701	0.76336
0.20092	-2.20361	1.51955	-0.14616	-1.76439	0.19061	-0.00203	0.74020	0.73612	-0.00759	0.76910
0.20565	-2.24804	1.52079	-0.14942	-1.75879	0.19699	-0.00206	0.74145	0.73409	-0.00805	0.77385
0.21049	-2.31256	1.52102	-0.15260	-1.74898	0.20615	-0.00211	0.73177	0.73356	-0.00846	0.77805
0.21544	-2.36975	1.52034	-0.15621	-1.74049	0.21944	-0.00216	0.72279	0.73249	-0.00869	0.78121
0.22051	-2.40229	1.51869	-0.16042	-1.73592	0.23193	-0.00219	0.72272	0.72970	-0.00864	0.78269
0.22570	-2.40599	1.51647	-0.16501	-1.73576	0.23834	-0.00220	0.73433	0.72517	-0.00824	0.78181
0.23101	-2.39140	1.51461	-0.16979	-1.73898	0.23824	-0.00216	0.75302	0.71996	-0.00749	0.77846
0.23645	-2.39858	1.51305	-0.17443	-1.73834	0.23472	-0.00213	0.76045	0.71688	-0.00674	0.77504
0.24201	-2.45442	1.51074	-0.17862	-1.72799	0.23226	-0.00212	0.74602	0.71714	-0.00654	0.77528
0.24771	-2.53094	1.50694	-0.18287	-1.71281	0.23451	-0.00213	0.72499	0.71782	-0.00686	0.77936
0.25354	-2.59071	1.50244	-0.18778	-1.70054	0.23998	-0.00215	0.71382	0.71639	-0.00717	0.78379
0.25950	-2.62633	1.50021	-0.19288	-1.69480	0.24607	-0.00215	0.71525	0.71328	-0.00710	0.78575
0.26561	-2.65113	1.50224	-0.19732	-1.69450	0.25164	-0.00216	0.72420	0.71003	-0.00671	0.78543
0.27186	-2.69222	1.50736	-0.20099	-1.69333	0.25602	-0.00217	0.72886	0.70839	-0.00608	0.78376
0.27826	-2.77835	1.51299	-0.20418	-1.68383	0.25876	-0.00221	0.71505	0.71002	-0.00550	0.78275
0.28480	-2.89785	1.51730	-0.20734	-1.66697	0.26046	-0.00226	0.68722	0.71372	-0.00532	0.78447
0.29150	-2.99941	1.52010	-0.21121	-1.65252	0.26445	-0.00231	0.66850	0.71520	-0.00530	0.78706
0.29836	-3.04336	1.52184	-0.21640	-1.64825	0.27483	-0.00235	0.67603	0.71121	-0.00481	0.78599

0.30539	-3.02680	1.52365	-0.22261	-1.65539	0.29266	-0.00238	0.71163	0.70208	-0.00358	0.77935
0.31257	-2.97843	1.52684	-0.22871	-1.66946	0.31474	-0.00240	0.76278	0.69122	-0.00201	0.76983
0.31993	-2.93560	1.53193	-0.23393	-1.68411	0.33603	-0.00242	0.80916	0.68243	-0.00101	0.76369
0.32745	-2.91077	1.53922	-0.23816	-1.69778	0.35474	-0.00244	0.84203	0.67668	-0.00123	0.76554
0.33517	-2.90635	1.54765	-0.24190	-1.70933	0.37065	-0.00246	0.86076	0.67328	-0.00230	0.77329
0.34304	-2.93752	1.55477	-0.24556	-1.71394	0.38371	-0.00248	0.85948	0.67214	-0.00328	0.78061
0.35112	-3.00137	1.55865	-0.24964	-1.71060	0.39426	-0.00251	0.84201	0.67217	-0.00369	0.78392
0.35938	-3.08196	1.55850	-0.25426	-1.70110	0.40078	-0.00252	0.81727	0.67224	-0.00375	0.78441
0.36784	-3.17669	1.55563	-0.25897	-1.68610	0.40231	-0.00252	0.78767	0.67277	-0.00375	0.78438
0.37649	-3.28250	1.55296	-0.26335	-1.66823	0.40152	-0.00252	0.75639	0.67411	-0.00365	0.78432
0.38536	-3.39028	1.55267	-0.26755	-1.65155	0.39900	-0.00251	0.72721	0.67611	-0.00339	0.78400
0.39442	-3.48737	1.55497	-0.27198	-1.63931	0.39306	-0.00249	0.70402	0.67797	-0.00313	0.78410
0.40370	-3.56985	1.55850	-0.27697	-1.63115	0.38318	-0.00245	0.68789	0.67896	-0.00310	0.78581
0.41321	-3.64968	1.56161	-0.28250	-1.62318	0.37055	-0.00240	0.67349	0.67950	-0.00327	0.78904
0.42292	-3.74224	1.56366	-0.28821	-1.61165	0.35826	-0.00237	0.65529	0.68031	-0.00343	0.79258
0.43288	-3.85701	1.56497	-0.29371	-1.59489	0.34862	-0.00237	0.63019	0.68211	-0.00344	0.79545
0.44307	-3.99482	1.56633	-0.29870	-1.57340	0.34123	-0.00239	0.59732	0.68559	-0.00330	0.79724
0.45349	-4.15407	1.56824	-0.30308	-1.54817	0.33402	-0.00242	0.55613	0.69145	-0.00304	0.79770
0.46417	-4.32826	1.57016	-0.30701	-1.52001	0.32489	-0.00245	0.50876	0.69964	-0.00279	0.79779
0.47508	-4.49550	1.57137	-0.31110	-1.49234	0.31468	-0.00248	0.46531	0.70776	-0.00264	0.79884
0.48626	-4.63127	1.57193	-0.31604	-1.47025	0.30675	-0.00250	0.43640	0.71238	-0.00254	0.80064
0.49771	-4.71923	1.57263	-0.32220	-1.45831	0.30443	-0.00251	0.42864	0.71071	-0.00235	0.80215
0.50942	-4.75403	1.57453	-0.32953	-1.45912	0.31006	-0.00252	0.44478	0.70176	-0.00195	0.80258
0.52140	-4.74733	1.57808	-0.33731	-1.47096	0.32378	-0.00251	0.48204	0.68722	-0.00141	0.80232
0.53367	-4.72303	1.58296	-0.34471	-1.48833	0.34224	-0.00250	0.53266	0.67041	-0.00088	0.80244
0.54624	-4.70898	1.58856	-0.35121	-1.50444	0.36073	-0.00250	0.58385	0.65498	-0.00041	0.80339
0.55910	-4.72510	1.59469	-0.35670	-1.51467	0.37776	-0.00250	0.62304	0.64333	-0.00002	0.80526
0.57225	-4.77855	1.60148	-0.36138	-1.51776	0.39541	-0.00254	0.64298	0.63615	0.00027	0.80803
0.58569	-4.86207	1.60902	-0.36561	-1.51562	0.41607	-0.00260	0.64539	0.63249	0.00056	0.81093
0.59948	-4.96481	1.61645	-0.36991	-1.50990	0.43758	-0.00268	0.63605	0.63078	0.00103	0.81286
0.61357	-5.07930	1.62176	-0.37485	-1.49987	0.45331	-0.00275	0.62009	0.62967	0.00168	0.81366
0.62802	-5.20526	1.62374	-0.38064	-1.48395	0.45745	-0.00279	0.59994	0.62849	0.00247	0.81340
0.64280	-5.33651	1.62338	-0.38691	-1.46427	0.45127	-0.00281	0.58056	0.62651	0.00347	0.81156
0.65794	-5.46905	1.62250	-0.39314	-1.44370	0.43896	-0.00280	0.56469	0.62353	0.00482	0.80708
0.67340	-5.60036	1.62216	-0.39896	-1.42397	0.42393	-0.00277	0.55281	0.61974	0.00647	0.80021
0.68927	-5.73303	1.62275	-0.40418	-1.40487	0.40748	-0.00274	0.54229	0.61593	0.00809	0.79315
0.70547	-5.86714	1.62475	-0.40868	-1.38668	0.39109	-0.00271	0.53144	0.61282	0.00930	0.78859
0.72207	-5.99595	1.62897	-0.41262	-1.37177	0.37806	-0.00269	0.52383	0.60974	0.00995	0.78756
0.73910	-6.10700	1.63577	-0.41626	-1.36356	0.37303	-0.00268	0.52637	0.60496	0.01017	0.78898
0.75649	-6.19335	1.64466	-0.41987	-1.36331	0.37877	-0.00269	0.54316	0.59732	0.01015	0.79121
0.77429	-6.26002	1.65467	-0.42363	-1.36889	0.39325	-0.00271	0.57226	0.58728	0.00993	0.79374
0.79246	-6.31356	1.66491	-0.42755	-1.37771	0.41264	-0.00274	0.61047	0.57579	0.00942	0.79715
0.81116	-6.35380	1.67522	-0.43171	-1.38956	0.43609	-0.00277	0.66016	0.56268	0.00860	0.80164
0.83022	-6.37821	1.68568	-0.43602	-1.40496	0.46437	-0.00280	0.72540	0.54773	0.00769	0.80613
0.84976	-6.39311	1.69628	-0.44040	-1.42249	0.49639	-0.00284	0.80584	0.53150	0.00688	0.80959
0.86972	-6.41482	1.70674	-0.44454	-1.43812	0.52805	-0.00288	0.89063	0.51595	0.00626	0.81193
0.89023	-6.45876	1.71701	-0.44820	-1.44850	0.55555	-0.00293	0.96639	0.50267	0.00591	0.81328
0.91116	-6.52665	1.72696	-0.45130	-1.45308	0.57748	-0.00298	1.02726	0.49194	0.00588	0.81377
0.93257	-6.61401	1.73641	-0.45404	-1.45271	0.59304	-0.00302	1.07439	0.48313	0.00614	0.81346
0.95456	-6.71831	1.74534	-0.45660	-1.44799	0.60060	-0.00305	1.10753	0.47601	0.00671	0.81212
0.97704	-6.84033	1.75378	-0.45907	-1.43885	0.59905	-0.00306	1.12318	0.47077	0.00759	0.80940
1.00000	-6.98053	1.76186	-0.46141	-1.42538	0.59001	-0.00306	1.12033	0.46734	0.00867	0.80580
1.02354	-7.13829	1.76970	-0.46358	-1.40794	0.57619	-0.00305	1.10045	0.46546	0.00975	0.80269
1.04767	-7.31004	1.77749	-0.46554	-1.38762	0.56052	-0.00305	1.06752	0.46471	0.01065	0.80121
1.07227	-7.48711	1.78555	-0.46733	-1.36677	0.54581	-0.00306	1.02962	0.46437	0.01130	0.80166
1.09745	-7.66259	1.79430	-0.46900	-1.34765	0.53375	-0.00307	0.99456	0.46368	0.01180	0.80318
1.12334	-7.83367	1.80403	-0.47057	-1.33140	0.52411	-0.00307	0.96642	0.46217	0.01238	0.80427
1.14982	-7.99853	1.81485	-0.47195	-1.31873	0.51689	-0.00308	0.94753	0.45955	0.01313	0.80399
1.17675	-8.15399	1.82677	-0.47297	-1.31037	0.51296	-0.00308	0.94174	0.45533	0.01408	0.80229
1.20453	-8.29769	1.83978	-0.47357	-1.30712	0.51409	-0.00308	0.95545	0.44857	0.01512	0.79970
1.23289	-8.42552	1.85339	-0.47374	-1.30907	0.52165	-0.00308	0.99379	0.43872	0.01610	0.79711
1.26183	-8.53931	1.86715	-0.47356	-1.31500	0.53532	-0.00308	1.05822	0.42591	0.01695	0.79499
1.29149	-8.64296	1.88089	-0.47317	-1.32360	0.55437	-0.00310	1.14923	0.41057	0.01777	0.79284
1.32188	-8.74251	1.89451	-0.47260	-1.33321	0.57742	-0.00312	1.26294	0.39367	0.01865	0.79013
1.35300	-8.84655	1.90789	-0.47182	-1.34167	0.60195	-0.00316	1.38906	0.37653	0.01957	0.78726
1.38485	-8.96010	1.92096	-0.47081	-1.34761	0.62576	-0.00319	1.51672	0.36018	0.02035	0.78544
1.41743	-9.08167	1.93375	-0.46959	-1.35130	0.64777	-0.00323	1.64082	0.34505	0.02085	0.78588
1.45075	-9.20727	1.94644	-0.46816	-1.35370	0.66755	-0.00326	1.76045	0.33125	0.02105	0.78869
1.48500	-9.33320	1.95931	-0.46658	-1.35594	0.68520	-0.00329	1.87887	0.31862	0.02108	0.79300
1.51999	-9.45395	1.97239	-0.46495	-1.35908	0.70110	-0.00331	2.00069	0.30699	0.02103	0.79801
1.55569	-9.56720	1.98568	-0.46334	-1.36346	0.71563	-0.00332	2.12858	0.29627	0.02094	0.80358
1.59236	-9.67506	1.99926	-0.46180	-1.36871	0.72882	-0.00332	2.25992	0.28653	0.02082	0.80975
1.62973	-9.78046	2.01302	-0.46035	-1.37387	0.74011	-0.00332	2.38555	0.27814	0.02067	0.81648
1.66806	-9.88672	2.02703	-0.45905	-1.37831	0.74924	-0.00332	2.49877	0.27122	0.02044	0.82419
1.70736	-9.99464	2.04130	-0.45791	-1.38178	0.75625	-0.00330	2.59407	0.26586	0.02004	0.83357
1.74764	-10.10510	2.05585	-0.45696	-1.38415	0.76122	-0.00329	2.66562	0.26220	0.01939	0.84505
1.78859	-10.21911	2.07058	-0.45619	-1.38501	0.76394	-0.00327	2.70710	0.26033	0.01852	0.85845
1.83083	-10.33930	2.08563	-0.45562	-1.38415	0.76460	-0.00326	2.71730	0.26014	0.01746	0.87361
1.87371	-10.46268	2.10068	-0.45527	-1.38177	0.76375	-0.00324	2.69962	0.26139	0.01628	0.88989
1.91791	-10.58911	2.11590	-0.45515	-1.37825	0.76196	-0.00322	2.66045	0.26380	0.01501	0.90700
1.96309	-10.71681	2.13107	-0.45524	-1.37377	0.75948	-0.00321	2.60449	0.26715	0.01373	0.92415

2.00924	-10.84493	2.14612	-0.45556	-1.36854	0.75640	-0.00319	2.53670	0.27117	0.01251	0.94065
2.05634	-10.97158	2.16098	-0.45608	-1.36301	0.75308	-0.00318	2.46376	0.27556	0.01140	0.95589
2.10482	-11.09712	2.17573	-0.45677	-1.35734	0.74938	-0.00317	2.38914	0.28014	0.01041	0.96957
2.15424	-11.22019	2.19020	-0.45759	-1.35165	0.74520	-0.00315	2.31598	0.28470	0.00956	0.98138
2.20507	-11.34081	2.20448	-0.45850	-1.34620	0.74069	-0.00314	2.24710	0.28908	0.00881	0.99152
2.25683	-11.45663	2.21844	-0.45948	-1.34136	0.73627	-0.00312	2.18642	0.29305	0.00814	1.00015
2.31000	-11.56864	2.23224	-0.46047	-1.33725	0.73243	-0.00310	2.13439	0.29652	0.00756	1.00752
2.36463	-11.67758	2.24590	-0.46143	-1.33389	0.72944	-0.00308	2.09116	0.29940	0.00707	1.01366
2.42014	-11.78355	2.25933	-0.46229	-1.33121	0.72730	-0.00306	2.05696	0.30159	0.00675	1.01834
2.47709	-11.89040	2.27266	-0.46299	-1.32880	0.72574	-0.00304	2.02961	0.30308	0.00664	1.02138
2.53550	-11.99996	2.28586	-0.46343	-1.32635	0.72448	-0.00303	2.00878	0.30378	0.00677	1.02280
2.59471	-12.11104	2.29868	-0.46353	-1.32389	0.72360	-0.00301	1.99682	0.30347	0.00712	1.02282
2.65604	-12.22779	2.31130	-0.46320	-1.32106	0.72275	-0.00300	1.99340	0.30206	0.00769	1.02168
2.71887	-12.34826	2.32349	-0.46242	-1.31789	0.72211	-0.00298	2.00133	0.29936	0.00843	1.01980
2.78242	-12.46954	2.33513	-0.46115	-1.31477	0.72248	-0.00297	2.02446	0.29525	0.00934	1.01752
2.84819	-12.59329	2.34647	-0.45936	-1.31191	0.72489	-0.00297	2.06549	0.28963	0.01040	1.01530
2.91545	-12.71814	2.35736	-0.45713	-1.30915	0.72946	-0.00297	2.12074	0.28286	0.01155	1.01377
2.98329	-12.84475	2.36776	-0.45445	-1.30628	0.73641	-0.00298	2.18515	0.27542	0.01272	1.01310
3.05344	-12.97547	2.37800	-0.45134	-1.30327	0.74567	-0.00301	2.25719	0.26743	0.01390	1.01342
3.12598	-13.11135	2.38826	-0.44765	-1.30036	0.75741	-0.00304	2.33754	0.25898	0.01513	1.01431
3.19898	-13.24560	2.39828	-0.44356	-1.29811	0.77106	-0.00308	2.42665	0.25035	0.01633	1.01558
3.27439	-13.38219	2.40842	-0.43887	-1.29664	0.78706	-0.00312	2.53033	0.24127	0.01756	1.01664
3.35121	-13.51667	2.41851	-0.43374	-1.29626	0.80459	-0.00317	2.64901	0.23198	0.01877	1.01745
3.43053	-13.65243	2.42877	-0.42799	-1.29692	0.82381	-0.00322	2.78455	0.22250	0.01998	1.01784
3.51124	-13.78700	2.43897	-0.42191	-1.29826	0.84326	-0.00327	2.92781	0.21336	0.02110	1.01836
3.59324	-13.92165	2.44908	-0.41541	-1.30029	0.86310	-0.00332	3.07731	0.20466	0.02215	1.01893
3.67782	-14.05770	2.45928	-0.40872	-1.30256	0.88224	-0.00336	3.22284	0.19677	0.02305	1.02052
3.76506	-14.19857	2.46952	-0.40167	-1.30485	0.90064	-0.00340	3.35401	0.19016	0.02378	1.02321
3.85356	-14.33919	2.47989	-0.39468	-1.30701	0.91702	-0.00342	3.46957	0.18465	0.02429	1.02749
3.94477	-14.48264	2.48996	-0.38745	-1.30896	0.93175	-0.00345	3.56451	0.18049	0.02458	1.03298
4.03714	-14.62569	2.50027	-0.38023	-1.31080	0.94447	-0.00346	3.64367	0.17727	0.02466	1.03957
4.13223	-14.76940	2.51016	-0.37306	-1.31207	0.95526	-0.00347	3.70081	0.17514	0.02455	1.04710
4.23012	-14.91657	2.52001	-0.36572	-1.31273	0.96450	-0.00348	3.73654	0.17399	0.02424	1.05511
4.32900	-15.06095	2.52989	-0.35874	-1.31289	0.97197	-0.00348	3.75924	0.17333	0.02378	1.06334
4.43066	-15.20562	2.53872	-0.35176	-1.31214	0.97810	-0.00349	3.76139	0.17350	0.02318	1.07157
4.53515	-15.35200	2.54820	-0.34485	-1.31110	0.98328	-0.00349	3.75410	0.17403	0.02245	1.07999
4.64253	-15.49479	2.55734	-0.33823	-1.30997	0.98793	-0.00349	3.74115	0.17486	0.02165	1.08838
4.75059	-15.63264	2.56543	-0.33165	-1.30862	0.99217	-0.00350	3.71950	0.17617	0.02077	1.09655
4.86145	-15.77192	2.57484	-0.32519	-1.30751	0.99600	-0.00350	3.69713	0.17756	0.01984	1.10471
4.97760	-15.90865	2.58358	-0.31886	-1.30638	0.99938	-0.00350	3.67169	0.17913	0.01891	1.11277
5.09424	-16.04007	2.59126	-0.31257	-1.30514	1.00213	-0.00350	3.64030	0.18103	0.01795	1.12060
5.21376	-16.17540	2.60084	-0.30634	-1.30417	1.00444	-0.00350	3.60942	0.18291	0.01699	1.12829
5.33618	-16.30468	2.60949	-0.30044	-1.30325	1.00636	-0.00349	3.57917	0.18475	0.01610	1.13559
5.46150	-16.42852	2.61646	-0.29450	-1.30218	1.00775	-0.00349	3.54414	0.18686	0.01521	1.14285
5.58971	-16.55904	2.62573	-0.28847	-1.30135	1.00885	-0.00348	3.50897	0.18896	0.01433	1.15015
5.72082	-16.68739	2.63539	-0.28277	-1.30078	1.00998	-0.00347	3.47790	0.19087	0.01352	1.15732
5.85823	-16.80480	2.64173	-0.27716	-1.30012	1.01094	-0.00347	3.44642	0.19288	0.01273	1.16483
5.99520	-16.92456	2.64944	-0.27145	-1.29965	1.01175	-0.00346	3.41451	0.19493	0.01194	1.17243
6.13497	-17.05281	2.66002	-0.26574	-1.29947	1.01269	-0.00345	3.38465	0.19684	0.01120	1.18002
6.28141	-17.16961	2.66784	-0.26046	-1.29934	1.01369	-0.00344	3.35931	0.19857	0.01052	1.18771
6.42674	-17.27213	2.67267	-0.25541	-1.29922	1.01447	-0.00343	3.33496	0.20031	0.00985	1.19545
6.57895	-17.38956	2.68089	-0.24986	-1.29930	1.01533	-0.00342	3.30863	0.20216	0.00916	1.20356
6.73401	-17.51729	2.69222	-0.24427	-1.29960	1.01640	-0.00341	3.28386	0.20389	0.00853	1.21155
6.89180	-17.62138	2.69853	-0.23958	-1.29989	1.01743	-0.00340	3.26622	0.20527	0.00799	1.21937
7.05716	-17.71424	2.70167	-0.23495	-1.30022	1.01826	-0.00339	3.24962	0.20668	0.00741	1.22757
7.22022	-17.81845	2.70828	-0.22998	-1.30070	1.01914	-0.00338	3.23143	0.20815	0.00686	1.23541
7.39098	-17.94286	2.71943	-0.22447	-1.30134	1.02027	-0.00336	3.21131	0.20968	0.00632	1.24311
7.56430	-18.04990	2.72732	-0.21991	-1.30199	1.02141	-0.00335	3.19784	0.21083	0.00588	1.25016
7.73994	-18.11951	2.72691	-0.21651	-1.30256	1.02212	-0.00334	3.19139	0.21169	0.00546	1.25683
7.92393	-18.20357	2.72939	-0.21244	-1.30328	1.02286	-0.00333	3.18182	0.21272	0.00501	1.26331
8.11030	-18.30261	2.73549	-0.20785	-1.30409	1.02374	-0.00332	3.16971	0.21387	0.00457	1.26929
8.29876	-18.42296	2.74670	-0.20265	-1.30499	1.02492	-0.00330	3.15472	0.21511	0.00416	1.27469
8.49618	-18.50656	2.75000	-0.19925	-1.30580	1.02587	-0.00329	3.14988	0.21579	0.00383	1.27964
8.69565	-18.54523	2.74382	-0.19754	-1.30653	1.02625	-0.00329	3.15363	0.21606	0.00353	1.28440
8.90472	-18.60629	2.74218	-0.19484	-1.30741	1.02679	-0.00328	3.15262	0.21659	0.00320	1.28924
9.11577	-18.67502	2.74251	-0.19186	-1.30833	1.02742	-0.00327	3.15015	0.21718	0.00287	1.29396
9.32836	-18.77671	2.74999	-0.18737	-1.30937	1.02835	-0.00326	3.14039	0.21814	0.00251	1.29877
9.54198	-18.86591	2.75548	-0.18387	-1.31031	1.02930	-0.00325	3.13512	0.21880	0.00224	1.30338
9.76563	-18.87389	2.74419	-0.18453	-1.31098	1.02952	-0.00324	3.14908	0.21837	0.00209	1.30809
10.00000	-18.87515	2.73138	-0.18556	-1.31169	1.02965	-0.00324	3.16479	0.21785	0.00195	1.31348

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Median stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 610 - 1220 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-1.22718	2.54664	-0.21605	-2.91865	1.13054	-0.00090	9.64148	0.26570	0.01019	0.34556
PGV	10.56124	1.97169	-0.14248	-4.17179	1.30533	0.00026	21.65696	0.22718	-0.01179	0.49594
PGA	4.51736	1.59784	-0.07692	-3.24519	0.65157	-0.00086	8.03424	0.42538	-0.02658	0.77549
0.01000	4.48437	1.60638	-0.07478	-3.23639	0.63048	-0.00086	7.99704	0.42967	-0.02150	0.78990
0.01024	4.49266	1.60668	-0.07455	-3.23767	0.62993	-0.00086	8.00389	0.42975	-0.02153	0.79039
0.01048	4.50311	1.60699	-0.07432	-3.23932	0.62946	-0.00086	8.01388	0.42979	-0.02157	0.79087
0.01072	4.51576	1.60731	-0.07407	-3.24135	0.62906	-0.00086	8.02700	0.42979	-0.02162	0.79132
0.01097	4.53066	1.60765	-0.07381	-3.24377	0.62871	-0.00085	8.04331	0.42975	-0.02167	0.79177
0.01123	4.54795	1.60802	-0.07353	-3.24661	0.62841	-0.00085	8.06295	0.42968	-0.02173	0.79220
0.01150	4.56784	1.60841	-0.07323	-3.24989	0.62816	-0.00085	8.08620	0.42956	-0.02179	0.79264
0.01177	4.59070	1.60883	-0.07291	-3.25368	0.62795	-0.00085	8.11355	0.42941	-0.02186	0.79309
0.01205	4.61697	1.60929	-0.07256	-3.25806	0.62779	-0.00084	8.14564	0.42920	-0.02194	0.79355
0.01233	4.64687	1.60980	-0.07218	-3.26307	0.62769	-0.00084	8.18274	0.42895	-0.02203	0.79403
0.01262	4.68064	1.61036	-0.07178	-3.26874	0.62764	-0.00083	8.22518	0.42864	-0.02213	0.79454
0.01292	4.71892	1.61098	-0.07133	-3.27518	0.62761	-0.00083	8.27386	0.42828	-0.02223	0.79511
0.01322	4.76240	1.61167	-0.07084	-3.28250	0.62762	-0.00082	8.32976	0.42786	-0.02236	0.79575
0.01353	4.81145	1.61243	-0.07031	-3.29077	0.62765	-0.00082	8.39341	0.42737	-0.02249	0.79648
0.01385	4.86672	1.61328	-0.06971	-3.30010	0.62774	-0.00081	8.46571	0.42681	-0.02265	0.79731
0.01417	4.92952	1.61423	-0.06906	-3.31070	0.62789	-0.00080	8.54867	0.42616	-0.02282	0.79828
0.01451	5.00041	1.61530	-0.06834	-3.32268	0.62809	-0.00079	8.64312	0.42542	-0.02301	0.79943
0.01485	5.07905	1.61648	-0.06754	-3.33593	0.62827	-0.00078	8.74843	0.42461	-0.02324	0.80081
0.01520	5.16621	1.61779	-0.06664	-3.35060	0.62842	-0.00077	8.86573	0.42373	-0.02348	0.80238
0.01556	5.26355	1.61928	-0.06566	-3.36697	0.62860	-0.00075	8.99763	0.42275	-0.02375	0.80417
0.01592	5.37070	1.62093	-0.06458	-3.38497	0.62883	-0.00074	9.14381	0.42169	-0.02405	0.80622
0.01630	5.48446	1.62272	-0.06340	-3.40394	0.62904	-0.00072	9.29959	0.42062	-0.02437	0.80854
0.01668	5.60108	1.62464	-0.06209	-3.42318	0.62912	-0.00071	9.45943	0.41962	-0.02472	0.81115
0.01707	5.72018	1.62673	-0.06065	-3.44260	0.62902	-0.00070	9.62263	0.41870	-0.02511	0.81406
0.01748	5.84645	1.62901	-0.05907	-3.46307	0.62873	-0.00069	9.79603	0.41779	-0.02553	0.81727
0.01789	5.97797	1.63147	-0.05734	-3.48424	0.62816	-0.00068	9.97633	0.41694	-0.02600	0.82085
0.01831	6.10743	1.63404	-0.05547	-3.50473	0.62730	-0.00067	10.15273	0.41625	-0.02652	0.82480
0.01874	6.23296	1.63684	-0.05347	-3.52430	0.62616	-0.00066	10.32153	0.41577	-0.02706	0.82897
0.01918	6.35680	1.64002	-0.05141	-3.54351	0.62454	-0.00065	10.48438	0.41551	-0.02758	0.83301
0.01963	6.47231	1.64344	-0.04929	-3.56113	0.62198	-0.00065	10.63054	0.41555	-0.02804	0.83672
0.02009	6.56717	1.64681	-0.04713	-3.57487	0.61820	-0.00065	10.74166	0.41602	-0.02845	0.84018
0.02057	6.62941	1.65012	-0.04488	-3.58262	0.61327	-0.00065	10.79867	0.41712	-0.02888	0.84372
0.02105	6.65817	1.65358	-0.04250	-3.58445	0.60769	-0.00066	10.79884	0.41887	-0.02932	0.84739
0.02154	6.67271	1.65738	-0.04009	-3.58391	0.60205	-0.00068	10.77374	0.42095	-0.02972	0.85081
0.02205	6.68570	1.66151	-0.03770	-3.58324	0.59700	-0.00070	10.74574	0.42310	-0.03005	0.85380
0.02257	6.68003	1.66549	-0.03532	-3.57926	0.59250	-0.00072	10.68773	0.42551	-0.03028	0.85609
0.02310	6.62633	1.66881	-0.03291	-3.56657	0.58633	-0.00075	10.54980	0.42873	-0.03043	0.85780
0.02364	6.53822	1.67149	-0.03050	-3.54746	0.57728	-0.00078	10.35496	0.43261	-0.03059	0.85960
0.02420	6.46170	1.67380	-0.02820	-3.53021	0.56767	-0.00080	10.18048	0.43625	-0.03082	0.86190
0.02477	6.39701	1.67594	-0.02602	-3.51532	0.55945	-0.00082	10.02655	0.43957	-0.03112	0.86454
0.02535	6.31590	1.67807	-0.02392	-3.49787	0.55208	-0.00085	9.84913	0.44311	-0.03138	0.86689
0.02595	6.21960	1.68055	-0.02194	-3.47808	0.54427	-0.00087	9.64995	0.44699	-0.03146	0.86803
0.02656	6.11315	1.68349	-0.02009	-3.45685	0.53524	-0.00090	9.43512	0.45122	-0.03136	0.86816
0.02719	5.96369	1.68680	-0.01815	-3.42834	0.52453	-0.00093	9.15292	0.45650	-0.03123	0.86821
0.02783	5.76104	1.69051	-0.01601	-3.39094	0.51323	-0.00098	8.79301	0.46299	-0.03118	0.86884
0.02848	5.55554	1.69431	-0.01381	-3.35325	0.50367	-0.00103	8.44109	0.46951	-0.03129	0.87050
0.02915	5.37242	1.69824	-0.01159	-3.31991	0.49586	-0.00107	8.12955	0.47557	-0.03143	0.87217
0.02984	5.19444	1.70243	-0.00927	-3.28825	0.48830	-0.00112	7.82461	0.48168	-0.03148	0.87331
0.03054	5.00800	1.70655	-0.00695	-3.25555	0.48015	-0.00115	7.50963	0.48809	-0.03143	0.87395
0.03126	4.81670	1.71012	-0.00479	-3.22191	0.47129	-0.00119	7.19607	0.49460	-0.03118	0.87326
0.03199	4.63256	1.71239	-0.00285	-3.18857	0.46197	-0.00122	6.90420	0.50083	-0.03073	0.87118
0.03275	4.45192	1.71380	-0.00100	-3.15508	0.45286	-0.00125	6.62706	0.50692	-0.03034	0.86943
0.03352	4.25464	1.71515	0.00088	-3.11852	0.44443	-0.00129	6.33799	0.51344	-0.03022	0.86964
0.03430	4.03752	1.71633	0.00267	-3.07812	0.43491	-0.00133	6.03429	0.52056	-0.03033	0.87150
0.03511	3.80696	1.71818	0.00430	-3.03552	0.42196	-0.00137	5.71949	0.52850	-0.03051	0.87379
0.03594	3.56259	1.72196	0.00598	-2.99185	0.40576	-0.00140	5.39089	0.53754	-0.03060	0.87554
0.03678	3.33427	1.72671	0.00749	-2.95199	0.38912	-0.00143	5.08782	0.54654	-0.03054	0.87649
0.03765	3.16192	1.73024	0.00854	-2.92142	0.37504	-0.00144	4.85950	0.55377	-0.03032	0.87647
0.03854	3.02744	1.73257	0.00951	-2.89680	0.36540	-0.00146	4.68592	0.55945	-0.02996	0.87508
0.03944	2.87962	1.73521	0.01085	-2.87014	0.35929	-0.00150	4.50861	0.56528	-0.02947	0.87255
0.04037	2.70466	1.73836	0.01247	-2.83934	0.35540	-0.00154	4.31153	0.57181	-0.02893	0.86965
0.04132	2.53698	1.74030	0.01376	-2.80894	0.35277	-0.00159	4.12936	0.57795	-0.02875	0.86913
0.04229	2.39508	1.74018	0.01449	-2.78150	0.34986	-0.00162	3.97549	0.58321	-0.02901	0.87150
0.04329	2.25456	1.74011	0.01522	-2.75452	0.34610	-0.00165	3.82134	0.58871	-0.02937	0.87434
0.04431	2.10111	1.74181	0.01632	-2.72691	0.34241	-0.00169	3.65591	0.59498	-0.02949	0.87549
0.04535	1.93490	1.74426	0.01759	-2.69824	0.33951	-0.00172	3.48123	0.60181	-0.02924	0.87403

0.04642	1.76910	1.74566	0.01854	-2.66941	0.33664	-0.00176	3.31010	0.60859	-0.02859	0.86989
0.04751	1.58828	1.74669	0.01939	-2.63729	0.32971	-0.00178	3.13097	0.61618	-0.02770	0.86416
0.04863	1.38135	1.74779	0.02041	-2.59991	0.31819	-0.00181	2.93833	0.62505	-0.02690	0.85902
0.04977	1.18334	1.74830	0.02125	-2.56329	0.30656	-0.00184	2.76432	0.63358	-0.02630	0.85520
0.05094	1.01959	1.74720	0.02151	-2.53135	0.29670	-0.00186	2.62619	0.64057	-0.02574	0.85163
0.05214	0.87946	1.74326	0.02108	-2.50144	0.28730	-0.00187	2.50976	0.64639	-0.02516	0.84771
0.05337	0.76088	1.73757	0.02019	-2.47442	0.27836	-0.00188	2.40905	0.65135	-0.02452	0.84339
0.05462	0.67416	1.73179	0.01893	-2.45364	0.27154	-0.00187	2.32971	0.65519	-0.02394	0.83964
0.05591	0.61605	1.72671	0.01734	-2.43891	0.26705	-0.00186	2.26934	0.65804	-0.02342	0.83666
0.05722	0.58649	1.72255	0.01528	-2.42993	0.26325	-0.00185	2.22953	0.65986	-0.02289	0.83386
0.05857	0.59173	1.71986	0.01276	-2.42817	0.26100	-0.00184	2.21755	0.66021	-0.02246	0.83166
0.05995	0.63975	1.71856	0.00978	-2.43530	0.26278	-0.00182	2.23922	0.65859	-0.02220	0.83042
0.06136	0.70235	1.71732	0.00677	-2.44500	0.26768	-0.00181	2.27636	0.65599	-0.02197	0.82907
0.06280	0.71592	1.71447	0.00418	-2.44416	0.27123	-0.00181	2.28207	0.65509	-0.02175	0.82754
0.06428	0.65212	1.71007	0.00221	-2.42814	0.27226	-0.00182	2.23038	0.65736	-0.02147	0.82592
0.06579	0.53165	1.70570	0.00078	-2.40247	0.27263	-0.00185	2.13687	0.66213	-0.02095	0.82305
0.06734	0.37274	1.70228	-0.00011	-2.37118	0.27317	-0.00189	2.02155	0.66850	-0.02023	0.81896
0.06893	0.20789	1.70038	-0.00068	-2.34018	0.27386	-0.00193	1.90937	0.67515	-0.01939	0.81428
0.07055	0.06713	1.69945	-0.00127	-2.31416	0.27485	-0.00198	1.81785	0.68088	-0.01861	0.81011
0.07221	-0.04560	1.69779	-0.00230	-2.29255	0.27541	-0.00201	1.74423	0.68556	-0.01817	0.80831
0.07391	-0.13477	1.69453	-0.00401	-2.27413	0.27528	-0.00203	1.68241	0.68936	-0.01813	0.80914
0.07565	-0.20564	1.69019	-0.00627	-2.25814	0.27499	-0.00204	1.63009	0.69245	-0.01835	0.81137
0.07743	-0.27012	1.68576	-0.00872	-2.24301	0.27492	-0.00205	1.58292	0.69525	-0.01867	0.81401
0.07925	-0.33106	1.68194	-0.01116	-2.22899	0.27400	-0.00205	1.54024	0.69790	-0.01901	0.81689
0.08111	-0.39395	1.67857	-0.01348	-2.21491	0.27098	-0.00205	1.49911	0.70066	-0.01935	0.81952
0.08302	-0.47254	1.67480	-0.01576	-2.19737	0.26568	-0.00206	1.45134	0.70412	-0.01945	0.82044
0.08498	-0.57043	1.66907	-0.01835	-2.17458	0.25731	-0.00206	1.39231	0.70856	-0.01917	0.81948
0.08697	-0.67838	1.66150	-0.02120	-2.14851	0.24749	-0.00205	1.32694	0.71359	-0.01870	0.81791
0.08902	-0.77732	1.65392	-0.02405	-2.12444	0.24062	-0.00205	1.26755	0.71812	-0.01840	0.81766
0.09112	-0.86788	1.64775	-0.02640	-2.10318	0.23812	-0.00206	1.21689	0.72200	-0.01823	0.81786
0.09326	-0.93331	1.64344	-0.02838	-2.08781	0.24121	-0.00208	1.18553	0.72400	-0.01788	0.81658
0.09545	-0.96467	1.64041	-0.03042	-2.07938	0.24608	-0.00211	1.17495	0.72393	-0.01726	0.81356
0.09770	-0.98092	1.63720	-0.03279	-2.07335	0.24738	-0.00212	1.17202	0.72313	-0.01645	0.80949
0.10000	-0.98484	1.63273	-0.03587	-2.06858	0.24578	-0.00213	1.17468	0.72155	-0.01573	0.80651
0.10235	-0.97997	1.62821	-0.03953	-2.06570	0.24527	-0.00213	1.18116	0.71939	-0.01536	0.80627
0.10476	-0.97900	1.62384	-0.04346	-2.06290	0.24683	-0.00213	1.18350	0.71748	-0.01520	0.80776
0.10723	-0.99268	1.61803	-0.04749	-2.05687	0.24628	-0.00212	1.17406	0.71664	-0.01491	0.80870
0.10975	-1.01152	1.61208	-0.05145	-2.05027	0.24533	-0.00211	1.16028	0.71623	-0.01433	0.80781
0.11233	-1.04795	1.60555	-0.05536	-2.04024	0.24454	-0.00210	1.13797	0.71663	-0.01366	0.80588
0.11498	-1.09673	1.59773	-0.05944	-2.02693	0.24273	-0.00208	1.10946	0.71760	-0.01317	0.80429
0.11768	-1.12318	1.58987	-0.06382	-2.01749	0.24103	-0.00205	1.09222	0.71740	-0.01295	0.80399
0.12045	-1.13305	1.58373	-0.06805	-2.01223	0.23942	-0.00202	1.08399	0.71658	-0.01297	0.80523
0.12328	-1.14990	1.57901	-0.07195	-2.00658	0.23718	-0.00198	1.07465	0.71629	-0.01338	0.80893
0.12619	-1.18480	1.57472	-0.07557	-1.99773	0.23495	-0.00196	1.05983	0.71674	-0.01408	0.81392
0.12916	-1.24121	1.56998	-0.07904	-1.98464	0.23262	-0.00195	1.03511	0.71824	-0.01452	0.81698
0.13219	-1.29991	1.56441	-0.08265	-1.97086	0.23246	-0.00195	1.00881	0.71956	-0.01459	0.81762
0.13531	-1.35284	1.55847	-0.08639	-1.95790	0.23499	-0.00196	0.98700	0.72009	-0.01430	0.81618
0.13849	-1.43399	1.55291	-0.08964	-1.93942	0.23651	-0.00198	0.95429	0.72226	-0.01376	0.81360
0.14175	-1.55842	1.54798	-0.09224	-1.91274	0.23582	-0.00203	0.90239	0.72755	-0.01304	0.81004
0.14508	-1.68029	1.54309	-0.09503	-1.88628	0.23543	-0.00207	0.85285	0.73291	-0.01232	0.80618
0.14850	-1.76175	1.53832	-0.09867	-1.86767	0.23540	-0.00210	0.82421	0.73525	-0.01167	0.80240
0.15199	-1.80698	1.53434	-0.10293	-1.85683	0.23676	-0.00211	0.81502	0.73454	-0.01105	0.79820
0.15557	-1.82631	1.53115	-0.10720	-1.85149	0.24138	-0.00213	0.81908	0.73180	-0.01034	0.79312
0.15923	-1.83321	1.52988	-0.11092	-1.85015	0.24945	-0.00215	0.82863	0.72853	-0.00943	0.78706
0.16298	-1.83753	1.53081	-0.11391	-1.85141	0.26127	-0.00217	0.83982	0.72531	-0.00850	0.78140
0.16681	-1.83781	1.53244	-0.11670	-1.85406	0.27388	-0.00220	0.85383	0.72178	-0.00785	0.77778
0.17074	-1.84650	1.53387	-0.11963	-1.85488	0.28159	-0.00221	0.86280	0.71916	-0.00761	0.77651
0.17475	-1.87532	1.53514	-0.12257	-1.85142	0.28215	-0.00221	0.85869	0.71883	-0.00769	0.77707
0.17887	-1.93925	1.53479	-0.12538	-1.83973	0.27730	-0.00220	0.83511	0.72147	-0.00795	0.77891
0.18307	-2.01732	1.53321	-0.12820	-1.82448	0.27292	-0.00220	0.80668	0.72467	-0.00819	0.78122
0.18738	-2.06823	1.53194	-0.13154	-1.81503	0.27635	-0.00222	0.79688	0.72458	-0.00828	0.78330
0.19179	-2.07335	1.53068	-0.13576	-1.81494	0.28958	-0.00224	0.81328	0.71967	-0.00833	0.78518
0.19631	-2.05238	1.52993	-0.14062	-1.82094	0.30637	-0.00226	0.84340	0.71249	-0.00805	0.78506
0.20092	-2.05529	1.52884	-0.14560	-1.82212	0.31764	-0.00227	0.85938	0.70774	-0.00713	0.78130
0.20565	-2.09473	1.52736	-0.15017	-1.81557	0.32100	-0.00227	0.85319	0.70668	-0.00607	0.77693
0.21049	-2.15168	1.52677	-0.15417	-1.80628	0.32008	-0.00227	0.83740	0.70742	-0.00542	0.77481
0.21544	-2.22194	1.52717	-0.15778	-1.79529	0.31939	-0.00229	0.81832	0.70877	-0.00512	0.77407
0.22051	-2.30344	1.52808	-0.16114	-1.78273	0.32294	-0.00232	0.79767	0.71023	-0.00499	0.77408
0.22570	-2.38074	1.52991	-0.16436	-1.77157	0.33155	-0.00237	0.78115	0.71110	-0.00499	0.77542
0.23101	-2.42857	1.53224	-0.16794	-1.76594	0.34172	-0.00241	0.77769	0.71010	-0.00498	0.77718
0.23645	-2.44458	1.53338	-0.17199	-1.76503	0.34861	-0.00242	0.78689	0.70710	-0.00487	0.77841
0.24201	-2.47190	1.53317	-0.17561	-1.76072	0.34701	-0.00240	0.78727	0.70574	-0.00480	0.77961
0.24771	-2.54755	1.53261	-0.17833	-1.74740	0.33665	-0.00237	0.76089	0.70893	-0.00477	0.78066
0.25354	-2.63596	1.53178	-0.18097	-1.73234	0.32849	-0.00235	0.72933	0.71267	-0.00460	0.78075
0.25950	-2.68028	1.53117	-0.18467	-1.72655	0.33397	-0.00235	0.72279	0.71144	-0.00420	0.77967
0.26561	-2.67979	1.53108	-0.18970	-1.72990	0.34971	-0.00236	0.74202	0.70536	-0.00345	0.77642
0.27186	-2.67049	1.53117	-0.19527	-1.73466	0.36577	-0.00238	0.77036	0.69791	-0.00227	0.77035
0.27826	-2.69491	1.53061	-0.20037	-1.73191	0.37539	-0.00240	0.78291	0.69331	-0.00091	0.76262
0.28480	-2.76731	1.52868	-0.20477	-1.71861	0.37882	-0.00243	0.76781	0.69313	0.00032	0.75532
0.29150	-2.84788	1.52679	-0.20902	-1.70380	0.38238	-0.00245	0.74707	0.69390	0.00119	0.75067
0.29836	-2.90374	1.52663	-0.21356	-1.69521	0.38804	-0.00248	0.74009	0.69270	0.00159	0.74977

0.30539	-2.94325	1.52772	-0.21842	-1.69070	0.39177	-0.00249	0.74260	0.69022	0.00161	0.75159
0.31257	-2.98159	1.52901	-0.22335	-1.68654	0.38792	-0.00247	0.74497	0.68802	0.00139	0.75462
0.31993	-3.02768	1.53007	-0.22806	-1.68092	0.37623	-0.00244	0.74280	0.68669	0.00107	0.75800
0.32745	-3.07493	1.53119	-0.23261	-1.67537	0.36247	-0.00239	0.74119	0.68529	0.00064	0.76198
0.33517	-3.11010	1.53280	-0.23742	-1.67246	0.35147	-0.00235	0.74906	0.68236	-0.00004	0.76751
0.34304	-3.12300	1.53511	-0.24272	-1.67436	0.34770	-0.00232	0.77258	0.67685	-0.00089	0.77375
0.35112	-3.13492	1.53770	-0.24819	-1.67701	0.34899	-0.00231	0.79899	0.67077	-0.00153	0.77816
0.35938	-3.15524	1.54101	-0.25366	-1.67939	0.35344	-0.00231	0.82025	0.66547	-0.00171	0.77927
0.36784	-3.16574	1.54467	-0.25946	-1.68468	0.36262	-0.00232	0.84598	0.65928	-0.00149	0.77781
0.37649	-3.16539	1.54725	-0.26555	-1.69172	0.37719	-0.00233	0.87877	0.65156	-0.00100	0.77495
0.38536	-3.16189	1.54840	-0.27168	-1.69897	0.39762	-0.00235	0.91571	0.64266	-0.00061	0.77319
0.39442	-3.17575	1.54911	-0.27761	-1.70314	0.41960	-0.00238	0.94403	0.63476	-0.00077	0.77549
0.40370	-3.22279	1.55201	-0.28309	-1.70311	0.43993	-0.00242	0.95347	0.62995	-0.00127	0.78063
0.41321	-3.28506	1.55878	-0.28838	-1.70360	0.46125	-0.00247	0.95517	0.62717	-0.00154	0.78504
0.42292	-3.33822	1.56879	-0.29351	-1.70849	0.48615	-0.00254	0.96554	0.62420	-0.00152	0.78753
0.43288	-3.38785	1.57883	-0.29837	-1.71342	0.50829	-0.00260	0.97982	0.62106	-0.00136	0.78868
0.44307	-3.44867	1.58520	-0.30317	-1.71192	0.51940	-0.00264	0.98532	0.61856	-0.00126	0.78992
0.45349	-3.53042	1.58774	-0.30814	-1.70234	0.51854	-0.00265	0.97573	0.61728	-0.00130	0.79222
0.46417	-3.64485	1.58850	-0.31302	-1.68463	0.50862	-0.00265	0.94565	0.61824	-0.00157	0.79645
0.47508	-3.79207	1.58833	-0.31768	-1.65959	0.49362	-0.00265	0.89803	0.62137	-0.00201	0.80225
0.48626	-3.95382	1.58797	-0.32224	-1.63196	0.47750	-0.00266	0.84723	0.62490	-0.00204	0.80576
0.49771	-4.10901	1.58878	-0.32692	-1.60759	0.46106	-0.00265	0.80460	0.62753	-0.00142	0.80512
0.50942	-4.24531	1.59163	-0.33174	-1.58969	0.44552	-0.00262	0.77451	0.62881	-0.00052	0.80260
0.52140	-4.35191	1.59615	-0.33677	-1.57981	0.43433	-0.00258	0.76236	0.62764	0.00010	0.80156
0.53367	-4.42811	1.60084	-0.34225	-1.57649	0.42756	-0.00254	0.76870	0.62338	0.00026	0.80358
0.54624	-4.49077	1.60436	-0.34811	-1.57476	0.42333	-0.00250	0.78403	0.61728	-0.00001	0.80889
0.55910	-4.54594	1.60685	-0.35415	-1.57328	0.42281	-0.00248	0.80359	0.61025	-0.00058	0.81704
0.57225	-4.59665	1.60991	-0.36005	-1.57300	0.42771	-0.00247	0.82427	0.60318	-0.00118	0.82571
0.58569	-4.65863	1.61436	-0.36572	-1.57186	0.43657	-0.00249	0.83768	0.59736	-0.00135	0.83140
0.59948	-4.74908	1.61970	-0.37130	-1.56643	0.44539	-0.00253	0.83631	0.59352	-0.00086	0.83223
0.61357	-4.86901	1.62540	-0.37674	-1.55614	0.45086	-0.00258	0.81956	0.59175	-0.00004	0.83037
0.62802	-4.99253	1.63165	-0.38215	-1.54623	0.45478	-0.00260	0.80221	0.59023	0.00063	0.82943
0.64280	-5.09172	1.63887	-0.38752	-1.54218	0.46182	-0.00262	0.80250	0.58647	0.00101	0.83062
0.65794	-5.15785	1.64729	-0.39266	-1.54557	0.47606	-0.00264	0.83087	0.57898	0.00136	0.83231
0.67340	-5.20804	1.65601	-0.39730	-1.55173	0.49677	-0.00269	0.88054	0.56880	0.00182	0.83335
0.68927	-5.26619	1.66393	-0.40152	-1.55465	0.51889	-0.00275	0.93567	0.55818	0.00225	0.83433
0.70547	-5.34472	1.67081	-0.40553	-1.55189	0.53751	-0.00282	0.98112	0.54904	0.00263	0.83502
0.72207	-5.44690	1.67676	-0.40963	-1.54359	0.55145	-0.00289	1.00710	0.54219	0.00312	0.83443
0.73910	-5.56897	1.68141	-0.41390	-1.53071	0.56110	-0.00294	1.01146	0.53743	0.00376	0.83231
0.75649	-5.70115	1.68473	-0.41817	-1.51528	0.56644	-0.00298	1.00088	0.53383	0.00457	0.82827
0.77429	-5.84412	1.68725	-0.42219	-1.49732	0.56609	-0.00299	0.97682	0.53147	0.00559	0.82180
0.79246	-6.00344	1.68985	-0.42580	-1.47587	0.55798	-0.00299	0.93572	0.53140	0.00668	0.81381
0.81116	-6.18229	1.69353	-0.42905	-1.45103	0.54279	-0.00297	0.87655	0.53440	0.00757	0.80633
0.83022	-6.36974	1.69925	-0.43199	-1.42627	0.52583	-0.00296	0.81013	0.53956	0.00813	0.80029
0.84976	-6.55619	1.70740	-0.43473	-1.40455	0.51280	-0.00295	0.74907	0.54497	0.00852	0.79465
0.86972	-6.73465	1.71723	-0.43722	-1.38677	0.50753	-0.00297	0.70059	0.54893	0.00866	0.79023
0.89023	-6.90168	1.72790	-0.43957	-1.37293	0.51139	-0.00302	0.66699	0.55042	0.00840	0.78891
0.91116	-7.05347	1.73860	-0.44208	-1.36305	0.52135	-0.00306	0.64803	0.54909	0.00785	0.79083
0.93257	-7.18995	1.74868	-0.44503	-1.35646	0.53288	-0.00309	0.64206	0.54498	0.00717	0.79506
0.95456	-7.31098	1.75768	-0.44839	-1.35240	0.54393	-0.00311	0.64919	0.53807	0.00646	0.80091
0.97704	-7.41625	1.76544	-0.45195	-1.35019	0.55503	-0.00311	0.67061	0.52834	0.00579	0.80760
1.00000	-7.50861	1.77247	-0.45546	-1.34943	0.56630	-0.00312	0.70634	0.51627	0.00532	0.81411
1.02354	-7.59170	1.78001	-0.45858	-1.35068	0.57677	-0.00312	0.75572	0.50282	0.00518	0.81940
1.04767	-7.66591	1.78895	-0.46114	-1.35494	0.58646	-0.00311	0.81861	0.48874	0.00539	0.82286
1.07227	-7.73132	1.79943	-0.46322	-1.36220	0.59699	-0.00310	0.89266	0.47485	0.00576	0.82543
1.09745	-7.79256	1.81135	-0.46495	-1.37136	0.60949	-0.00310	0.97141	0.46214	0.00608	0.82812
1.12334	-7.85250	1.82438	-0.46649	-1.38163	0.62469	-0.00311	1.05041	0.45088	0.00629	0.83112
1.14982	-7.91004	1.83769	-0.46807	-1.39228	0.64194	-0.00312	1.12961	0.44067	0.00635	0.83485
1.17675	-7.96804	1.85031	-0.46984	-1.40143	0.65900	-0.00313	1.20743	0.43121	0.00623	0.83958
1.20453	-8.03870	1.86193	-0.47188	-1.40627	0.67275	-0.00315	1.27507	0.42283	0.00610	0.84440
1.23289	-8.13352	1.87272	-0.47393	-1.40477	0.68045	-0.00316	1.31757	0.41656	0.00618	0.84794
1.26183	-8.26262	1.88317	-0.47572	-1.39575	0.67972	-0.00317	1.32109	0.41336	0.00664	0.84909
1.29149	-8.42875	1.89353	-0.47719	-1.37916	0.66999	-0.00317	1.28203	0.41350	0.00754	0.84747
1.32188	-8.62035	1.90375	-0.47848	-1.35733	0.65312	-0.00315	1.21266	0.41628	0.00865	0.84442
1.35300	-8.81543	1.91392	-0.47976	-1.33491	0.63384	-0.00314	1.13747	0.41996	0.00974	0.84139
1.38485	-8.99426	1.92420	-0.48112	-1.31624	0.61724	-0.00312	1.07847	0.42253	0.01075	0.83887
1.41743	-9.14820	1.93461	-0.48255	-1.30324	0.60664	-0.00310	1.04439	0.42286	0.01161	0.83747
1.45075	-9.28087	1.94515	-0.48388	-1.29511	0.60344	-0.00310	1.03116	0.42114	0.01218	0.83830
1.48500	-9.40127	1.95606	-0.48497	-1.29011	0.60833	-0.00312	1.03127	0.41815	0.01240	0.84184
1.51999	-9.51789	1.96767	-0.48578	-1.28660	0.62056	-0.00317	1.03753	0.41478	0.01245	0.84684
1.55569	-9.63318	1.98012	-0.48635	-1.28428	0.63875	-0.00324	1.05010	0.41100	0.01255	0.85163
1.59236	-9.74583	1.99314	-0.48669	-1.28331	0.66064	-0.00332	1.07281	0.40626	0.01271	0.85630
1.62973	-9.85221	2.00630	-0.48681	-1.28412	0.68377	-0.00340	1.10946	0.40012	0.01283	0.86167
1.66806	-9.95515	2.01961	-0.48666	-1.28644	0.70562	-0.00347	1.15943	0.39264	0.01293	0.86770
1.70736	-10.05635	2.03320	-0.48623	-1.29040	0.72443	-0.00352	1.22346	0.38378	0.01316	0.87324
1.74764	-10.15345	2.04709	-0.48552	-1.29691	0.74089	-0.00354	1.30793	0.37307	0.01361	0.87721
1.78859	-10.23941	2.06112	-0.48449	-1.30732	0.75737	-0.00355	1.42393	0.36001	0.01427	0.87950
1.83083	-10.31520	2.07536	-0.48305	-1.32150	0.77536	-0.00354	1.57616	0.34490	0.01500	0.88125
1.87371	-10.38687	2.08929	-0.48113	-1.33700	0.79356	-0.00353	1.75181	0.32931	0.01552	0.88462
1.91791	-10.46307	2.10286	-0.47868	-1.35169	0.81081	-0.00351	1.94087	0.31402	0.01561	0.89140
1.96309	-10.54851	2.11587	-0.47580	-1.36393	0.82631	-0.00349	2.13310	0.29954	0.01528	0.90148

2.00924	-10.64481	2.12843	-0.47249	-1.37349	0.84067	-0.00349	2.32514	0.28587	0.01473	0.91319
2.05634	-10.75309	2.14077	-0.46877	-1.38050	0.85430	-0.00349	2.51178	0.27312	0.01420	0.92464
2.10482	-10.87353	2.15314	-0.46467	-1.38541	0.86723	-0.00349	2.69123	0.26121	0.01382	0.93467
2.15424	-11.00355	2.16543	-0.46029	-1.38845	0.87830	-0.00350	2.86079	0.25017	0.01363	0.94277
2.20507	-11.14233	2.17765	-0.45567	-1.38988	0.88685	-0.00350	3.02400	0.23967	0.01359	0.94912
2.25683	-11.28552	2.18970	-0.45086	-1.39032	0.89335	-0.00350	3.18511	0.22954	0.01369	0.95353
2.31000	-11.43309	2.20179	-0.44584	-1.39015	0.89876	-0.00349	3.34810	0.21959	0.01396	0.95556
2.36463	-11.58227	2.21406	-0.44059	-1.39001	0.90424	-0.00349	3.51588	0.20988	0.01436	0.95547
2.42014	-11.73037	2.22654	-0.43520	-1.39007	0.91007	-0.00348	3.68199	0.20084	0.01474	0.95439
2.47709	-11.88009	2.23945	-0.42974	-1.38991	0.91569	-0.00348	3.83389	0.19292	0.01500	0.95370
2.53550	-12.03039	2.25293	-0.42437	-1.38964	0.92063	-0.00347	3.96220	0.18647	0.01509	0.95444
2.59471	-12.17824	2.26691	-0.41923	-1.38956	0.92473	-0.00346	4.06175	0.18164	0.01503	0.95687
2.65604	-12.32669	2.28170	-0.41428	-1.38968	0.92801	-0.00344	4.13339	0.17829	0.01490	0.96083
2.71887	-12.47435	2.29706	-0.40962	-1.38978	0.93027	-0.00342	4.17805	0.17622	0.01475	0.96589
2.78242	-12.62175	2.31270	-0.40532	-1.38927	0.93138	-0.00340	4.19463	0.17524	0.01464	0.97158
2.84819	-12.77551	2.32889	-0.40123	-1.38734	0.93119	-0.00338	4.17967	0.17526	0.01461	0.97773
2.91545	-12.93380	2.34545	-0.39746	-1.38397	0.93017	-0.00336	4.13307	0.17625	0.01466	0.98431
2.98329	-13.09380	2.36210	-0.39401	-1.37936	0.92878	-0.00335	4.05670	0.17825	0.01474	0.99130
3.05344	-13.25616	2.37919	-0.39089	-1.37394	0.92741	-0.00334	3.95631	0.18115	0.01484	0.99900
3.12598	-13.42029	2.39661	-0.38809	-1.36782	0.92607	-0.00333	3.83457	0.18493	0.01491	1.00739
3.19898	-13.57979	2.41372	-0.38574	-1.36137	0.92461	-0.00333	3.70197	0.18925	0.01495	1.01604
3.27439	-13.73801	2.43091	-0.38371	-1.35472	0.92323	-0.00333	3.56111	0.19406	0.01496	1.02481
3.35121	-13.89024	2.44779	-0.38203	-1.34840	0.92229	-0.00333	3.42317	0.19897	0.01494	1.03329
3.43053	-14.03871	2.46467	-0.38062	-1.34249	0.92193	-0.00333	3.28954	0.20395	0.01489	1.04154
3.51124	-14.17864	2.48115	-0.37949	-1.33755	0.92246	-0.00333	3.17094	0.20858	0.01481	1.04955
3.59324	-14.31082	2.49733	-0.37850	-1.33375	0.92403	-0.00333	3.07040	0.21274	0.01471	1.05728
3.67782	-14.43346	2.51325	-0.37773	-1.33147	0.92680	-0.00333	2.99483	0.21606	0.01456	1.06533
3.76506	-14.54841	2.52897	-0.37684	-1.33105	0.93141	-0.00333	2.95102	0.21823	0.01438	1.07356
3.85356	-14.65010	2.54409	-0.37619	-1.33242	0.93684	-0.00333	2.93867	0.21910	0.01415	1.08234
3.94477	-14.74563	2.55880	-0.37515	-1.33567	0.94392	-0.00332	2.96349	0.21851	0.01386	1.09105
4.03714	-14.82976	2.57298	-0.37422	-1.34045	0.95126	-0.00331	3.01982	0.21659	0.01356	1.09983
4.13223	-14.91278	2.58661	-0.37286	-1.34581	0.95869	-0.00330	3.10089	0.21362	0.01323	1.10838
4.23012	-14.99487	2.60000	-0.37113	-1.35182	0.96608	-0.00329	3.20898	0.20957	0.01294	1.11624
4.32900	-15.07397	2.61260	-0.36942	-1.35742	0.97175	-0.00326	3.32552	0.20511	0.01268	1.12359
4.43066	-15.16743	2.62485	-0.36688	-1.36148	0.97640	-0.00324	3.43677	0.20082	0.01245	1.12993
4.53515	-15.26303	2.63694	-0.36431	-1.36470	0.97903	-0.00322	3.54968	0.19635	0.01233	1.13567
4.64253	-15.36785	2.64839	-0.36142	-1.36614	0.97994	-0.00319	3.64381	0.19246	0.01225	1.14111
4.75059	-15.48951	2.65939	-0.35773	-1.36529	0.97950	-0.00317	3.71198	0.18935	0.01221	1.14561
4.86145	-15.61102	2.67020	-0.35418	-1.36357	0.97663	-0.00314	3.77605	0.18615	0.01232	1.14978
4.97760	-15.74489	2.68053	-0.35006	-1.36051	0.97313	-0.00311	3.81518	0.18378	0.01243	1.15372
5.09424	-15.89347	2.69058	-0.34509	-1.35588	0.96916	-0.00309	3.82433	0.18242	0.01262	1.15671
5.21376	-16.03732	2.70078	-0.34025	-1.35137	0.96362	-0.00307	3.83796	0.18081	0.01297	1.15948
5.33618	-16.18002	2.71017	-0.33511	-1.34732	0.96011	-0.00305	3.84699	0.17965	0.01330	1.16227
5.46150	-16.33354	2.71917	-0.32890	-1.34308	0.95924	-0.00304	3.84105	0.17932	0.01364	1.16453
5.58971	-16.48202	2.72876	-0.32271	-1.33942	0.95761	-0.00303	3.84695	0.17863	0.01408	1.16692
5.72082	-16.62234	2.73781	-0.31680	-1.33645	0.95615	-0.00302	3.85856	0.17787	0.01448	1.16986
5.85823	-16.77228	2.74539	-0.30989	-1.33341	0.95768	-0.00302	3.85310	0.17806	0.01474	1.17273
5.99520	-16.91817	2.75330	-0.30281	-1.33098	0.95895	-0.00302	3.85480	0.17812	0.01497	1.17574
6.13497	-17.05575	2.76205	-0.29622	-1.32937	0.95901	-0.00301	3.87080	0.17765	0.01517	1.17952
6.28141	-17.19261	2.76911	-0.28961	-1.32773	0.96095	-0.00301	3.86911	0.17788	0.01517	1.18387
6.42674	-17.33066	2.77455	-0.28246	-1.32579	0.96477	-0.00302	3.84211	0.17915	0.01495	1.18832
6.57895	-17.47242	2.78165	-0.27511	-1.32416	0.96769	-0.00302	3.81826	0.18029	0.01464	1.19367
6.73401	-17.60944	2.79019	-0.26834	-1.32300	0.96944	-0.00302	3.80367	0.18102	0.01429	1.19979
6.89180	-17.73739	2.79569	-0.26195	-1.32151	0.97347	-0.00302	3.76990	0.18249	0.01383	1.20623
7.05716	-17.86900	2.79935	-0.25485	-1.31950	0.97998	-0.00304	3.71013	0.18506	0.01313	1.21336
7.22022	-17.99759	2.80480	-0.24798	-1.31803	0.98556	-0.00305	3.66008	0.18727	0.01238	1.22081
7.39098	-18.13027	2.81298	-0.24126	-1.31719	0.99004	-0.00306	3.62294	0.18898	0.01162	1.22866
7.56430	-18.24835	2.81894	-0.23542	-1.31660	0.99453	-0.00306	3.59198	0.19049	0.01092	1.23602
7.73994	-18.34905	2.81929	-0.22971	-1.31569	1.00091	-0.00308	3.54709	0.19272	0.01011	1.24321
7.92393	-18.45578	2.82128	-0.22361	-1.31509	1.00688	-0.00310	3.50478	0.19493	0.00918	1.25069
8.11030	-18.56552	2.82555	-0.21757	-1.31497	1.01191	-0.00311	3.47175	0.19678	0.00827	1.25793
8.29876	-18.68220	2.83341	-0.21170	-1.31535	1.01570	-0.00310	3.45054	0.19810	0.00745	1.26461
8.49618	-18.77589	2.83574	-0.20697	-1.31555	1.01989	-0.00311	3.43017	0.19941	0.00677	1.27059
8.69565	-18.84088	2.83101	-0.20299	-1.31553	1.02497	-0.00312	3.40499	0.20106	0.00607	1.27647
8.90472	-18.91658	2.82923	-0.19856	-1.31598	1.02949	-0.00313	3.38539	0.20252	0.00532	1.28265
9.11577	-18.99350	2.82875	-0.19424	-1.31664	1.03338	-0.00314	3.37060	0.20376	0.00461	1.28869
9.32836	-19.08987	2.83356	-0.18923	-1.31760	1.03651	-0.00314	3.35911	0.20483	0.00392	1.29478
9.54198	-19.17612	2.83713	-0.18517	-1.31851	1.03921	-0.00313	3.35214	0.20561	0.00339	1.30038
9.76563	-19.20496	2.82790	-0.18392	-1.31907	1.04238	-0.00314	3.34939	0.20621	0.00301	1.30590
10.00000	-19.22637	2.81714	-0.18305	-1.31977	1.04535	-0.00315	3.35009	0.20667	0.00262	1.31220

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
High stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 6 - 15 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	7.69179	2.51819	-0.06744	-4.66522	1.39842	0.00119	29.42438	0.18624	-0.02274	0.54085
PGV	17.62058	1.63890	-0.11238	-5.03105	1.19699	0.00143	40.50397	0.17579	-0.00474	0.47026
PGA	5.62169	1.59682	-0.05900	-3.21855	0.41353	-0.00070	9.27911	0.44416	-0.02050	0.75981
0.01000	5.57531	1.60622	-0.05572	-3.20500	0.39369	-0.00073	9.20519	0.44924	0.00770	0.67990
0.01024	5.58023	1.60695	-0.05534	-3.20571	0.39269	-0.00073	9.20503	0.44953	0.00767	0.68050
0.01048	5.58707	1.60773	-0.05494	-3.20674	0.39170	-0.00073	9.20765	0.44980	0.00764	0.68112
0.01072	5.59589	1.60857	-0.05451	-3.20811	0.39070	-0.00073	9.21302	0.45006	0.00760	0.68176
0.01097	5.60673	1.60948	-0.05405	-3.20982	0.38968	-0.00073	9.22112	0.45030	0.00755	0.68243
0.01123	5.61969	1.61048	-0.05356	-3.21190	0.38861	-0.00073	9.23204	0.45054	0.00750	0.68311
0.01150	5.63499	1.61157	-0.05302	-3.21436	0.38749	-0.00073	9.24615	0.45077	0.00743	0.68384
0.01177	5.65271	1.61277	-0.05244	-3.21722	0.38631	-0.00073	9.26355	0.45100	0.00735	0.68462
0.01205	5.67261	1.61410	-0.05180	-3.22045	0.38506	-0.00073	9.28369	0.45123	0.00726	0.68549
0.01233	5.69444	1.61559	-0.05110	-3.22400	0.38374	-0.00073	9.30583	0.45149	0.00716	0.68645
0.01262	5.71815	1.61725	-0.05032	-3.22787	0.38232	-0.00073	9.32972	0.45178	0.00704	0.68750
0.01292	5.74391	1.61907	-0.04946	-3.23207	0.38073	-0.00073	9.35551	0.45211	0.00691	0.68865
0.01322	5.77229	1.62109	-0.04850	-3.23668	0.37891	-0.00073	9.38399	0.45248	0.00677	0.68991
0.01353	5.80380	1.62333	-0.04745	-3.24179	0.37681	-0.00073	9.41584	0.45288	0.00662	0.69129
0.01385	5.83867	1.62585	-0.04628	-3.24744	0.37448	-0.00073	9.45151	0.45333	0.00645	0.69281
0.01417	5.87770	1.62866	-0.04501	-3.25373	0.37193	-0.00073	9.49249	0.45382	0.00626	0.69456
0.01451	5.92050	1.63185	-0.04359	-3.26060	0.36916	-0.00073	9.53806	0.45438	0.00604	0.69662
0.01485	5.96115	1.63543	-0.04201	-3.26700	0.36608	-0.00073	9.57835	0.45513	0.00579	0.69904
0.01520	5.99093	1.63936	-0.04018	-3.27140	0.36247	-0.00073	9.59827	0.45626	0.00549	0.70183
0.01556	6.00821	1.64372	-0.03810	-3.27361	0.35821	-0.00074	9.59413	0.45783	0.00518	0.70494
0.01592	6.02031	1.64869	-0.03575	-3.27499	0.35360	-0.00075	9.57872	0.45970	0.00486	0.70828
0.01630	6.03595	1.65429	-0.03317	-3.27692	0.34893	-0.00077	9.56878	0.46167	0.00454	0.71179
0.01668	6.05687	1.66032	-0.03036	-3.27949	0.34406	-0.00078	9.56857	0.46368	0.00423	0.71544
0.01707	6.06815	1.66678	-0.02731	-3.28010	0.33848	-0.00080	9.55189	0.46606	0.00393	0.71918
0.01748	6.04363	1.67388	-0.02395	-3.27458	0.33127	-0.00083	9.47102	0.46947	0.00369	0.72287
0.01789	5.97446	1.68216	-0.02028	-3.26198	0.32221	-0.00086	9.30867	0.47420	0.00352	0.72632
0.01831	5.87002	1.69174	-0.01631	-3.24402	0.31202	-0.00090	9.08529	0.48003	0.00342	0.72956
0.01874	5.74670	1.70198	-0.01217	-3.22301	0.30103	-0.00094	8.83499	0.48647	0.00335	0.73274
0.01918	5.61960	1.71218	-0.00799	-3.20108	0.28949	-0.00098	8.58599	0.49305	0.00327	0.73605
0.01963	5.48994	1.72213	-0.00372	-3.17841	0.27820	-0.00102	8.34241	0.49965	0.00319	0.73947
0.02009	5.34279	1.73214	0.00077	-3.15284	0.26725	-0.00106	8.08072	0.50663	0.00315	0.74262
0.02057	5.15719	1.74247	0.00569	-3.12103	0.25602	-0.00112	7.77169	0.51450	0.00315	0.74557
0.02105	4.92882	1.75347	0.01114	-3.08259	0.24433	-0.00118	7.41378	0.52342	0.00314	0.74835
0.02154	4.67390	1.76513	0.01678	-3.04060	0.23241	-0.00125	7.02983	0.53309	0.00321	0.75049
0.02205	4.42832	1.77688	0.02193	-3.00111	0.22057	-0.00130	6.66331	0.54272	0.00345	0.75143
0.02257	4.21848	1.78811	0.02621	-2.96826	0.20880	-0.00135	6.34416	0.55165	0.00391	0.75090
0.02310	4.03837	1.79768	0.02980	-2.94001	0.19689	-0.00137	6.06480	0.55985	0.00456	0.74908
0.02364	3.87412	1.80444	0.03293	-2.91276	0.18410	-0.00139	5.81050	0.56749	0.00531	0.74659
0.02420	3.71520	1.80870	0.03562	-2.88464	0.16933	-0.00139	5.56903	0.57488	0.00605	0.74414
0.02477	3.54020	1.81206	0.03797	-2.85317	0.15256	-0.00139	5.31503	0.58277	0.00669	0.74221
0.02535	3.32150	1.81623	0.04055	-2.81497	0.13596	-0.00141	5.02423	0.59189	0.00721	0.74098
0.02595	3.06032	1.82234	0.04398	-2.77102	0.12305	-0.00145	4.71099	0.60201	0.00763	0.74023
0.02656	2.79988	1.83052	0.04815	-2.72884	0.11603	-0.00151	4.42614	0.61182	0.00799	0.73960
0.02719	2.58130	1.84044	0.05246	-2.69532	0.11420	-0.00158	4.20353	0.62020	0.00835	0.73866
0.02783	2.40613	1.85094	0.05643	-2.67019	0.11439	-0.00164	4.02963	0.62731	0.00883	0.73678
0.02848	2.24950	1.85975	0.05979	-2.64777	0.11313	-0.00168	3.86769	0.63406	0.00957	0.73309
0.02915	2.09573	1.86536	0.06242	-2.62433	0.10902	-0.00170	3.69840	0.64098	0.01064	0.72745
0.02984	1.94888	1.86678	0.06416	-2.59958	0.10246	-0.00171	3.52770	0.64781	0.01185	0.72119
0.03054	1.83385	1.86389	0.06484	-2.57724	0.09525	-0.00170	3.38402	0.65343	0.01301	0.71527
0.03126	1.76150	1.85784	0.06458	-2.55967	0.08939	-0.00168	3.28248	0.65718	0.01417	0.70938
0.03199	1.71817	1.85069	0.06384	-2.54607	0.08624	-0.00167	3.21325	0.65946	0.01539	0.70331
0.03275	1.68620	1.84541	0.06310	-2.53595	0.08607	-0.00166	3.16051	0.66110	0.01660	0.69760
0.03352	1.66173	1.84373	0.06247	-2.53014	0.08737	-0.00166	3.11773	0.66261	0.01772	0.69275
0.03430	1.64104	1.84491	0.06180	-2.52714	0.08833	-0.00166	3.08070	0.66420	0.01867	0.68890
0.03511	1.60341	1.84683	0.06130	-2.52127	0.08785	-0.00167	3.03450	0.66638	0.01946	0.68597
0.03594	1.52587	1.84754	0.06120	-2.50698	0.08477	-0.00169	2.95981	0.66990	0.02011	0.68381
0.03678	1.41396	1.84623	0.06133	-2.48494	0.07863	-0.00170	2.85774	0.67471	0.02059	0.68265
0.03765	1.29550	1.84375	0.06123	-2.46091	0.07041	-0.00171	2.74901	0.67999	0.02087	0.68268
0.03854	1.18255	1.84121	0.06066	-2.43797	0.06111	-0.00171	2.64273	0.68539	0.02095	0.68370
0.03944	1.06951	1.83854	0.05965	-2.41519	0.05102	-0.00171	2.53403	0.69111	0.02087	0.68534
0.04037	0.96154	1.83477	0.05816	-2.39275	0.04072	-0.00170	2.42691	0.69682	0.02078	0.68695
0.04132	0.86086	1.82923	0.05625	-2.37039	0.03049	-0.00169	2.32402	0.70231	0.02087	0.68735
0.04229	0.77991	1.82192	0.05388	-2.35001	0.02036	-0.00167	2.23551	0.70701	0.02126	0.68585
0.04329	0.73293	1.81291	0.05105	-2.33388	0.01107	-0.00164	2.17306	0.71013	0.02181	0.68310
0.04431	0.69918	1.80291	0.04833	-2.31890	0.00356	-0.00163	2.12509	0.71228	0.02232	0.68036
0.04535	0.65445	1.79353	0.04634	-2.30245	-0.00101	-0.00162	2.07748	0.71432	0.02270	0.67810

0.04642	0.58906	1.78652	0.04531	-2.28474	-0.00255	-0.00163	2.02324	0.71682	0.02308	0.67539
0.04751	0.51200	1.78230	0.04488	-2.26803	-0.00168	-0.00165	1.96521	0.71964	0.02364	0.67119
0.04863	0.43787	1.77961	0.04444	-2.25388	0.00102	-0.00167	1.91020	0.72229	0.02439	0.66568
0.04977	0.38449	1.77610	0.04339	-2.24323	0.00469	-0.00169	1.86768	0.72392	0.02520	0.65982
0.05094	0.34788	1.77015	0.04152	-2.23365	0.00786	-0.00169	1.83404	0.72468	0.02603	0.65390
0.05214	0.32987	1.76118	0.03865	-2.22486	0.00967	-0.00168	1.80920	0.72453	0.02698	0.64763
0.05337	0.32062	1.75059	0.03502	-2.21630	0.00976	-0.00167	1.78699	0.72408	0.02807	0.64100
0.05462	0.31244	1.74036	0.03103	-2.20828	0.00896	-0.00164	1.76434	0.72376	0.02916	0.63484
0.05591	0.30317	1.73136	0.02701	-2.20098	0.00857	-0.00162	1.74257	0.72353	0.02999	0.63057
0.05722	0.29639	1.72296	0.02304	-2.19429	0.00945	-0.00161	1.72601	0.72298	0.03036	0.62931
0.05857	0.29942	1.71474	0.01914	-2.18901	0.01229	-0.00160	1.72059	0.72158	0.03025	0.63113
0.05995	0.32278	1.70758	0.01528	-2.18782	0.01745	-0.00159	1.73339	0.71884	0.02989	0.63449
0.06136	0.36638	1.70252	0.01150	-2.19183	0.02415	-0.00159	1.76355	0.71501	0.02964	0.63701
0.06280	0.41992	1.69951	0.00782	-2.19937	0.03074	-0.00159	1.80240	0.71080	0.02962	0.63774
0.06428	0.46547	1.69716	0.00417	-2.20624	0.03466	-0.00158	1.83433	0.70733	0.02972	0.63715
0.06579	0.48927	1.69406	0.00048	-2.20898	0.03434	-0.00156	1.84643	0.70536	0.02981	0.63622
0.06734	0.47860	1.68973	-0.00312	-2.20502	0.03040	-0.00154	1.83006	0.70537	0.02973	0.63614
0.06893	0.42888	1.68414	-0.00646	-2.19343	0.02494	-0.00152	1.78564	0.70724	0.02935	0.63778
0.07055	0.36003	1.67740	-0.00968	-2.17769	0.02022	-0.00151	1.73015	0.70972	0.02869	0.64109
0.07221	0.27942	1.67066	-0.01261	-2.15991	0.01739	-0.00151	1.67144	0.71236	0.02792	0.64514
0.07391	0.20082	1.66390	-0.01557	-2.14252	0.01627	-0.00152	1.61778	0.71453	0.02727	0.64832
0.07565	0.10844	1.65679	-0.01847	-2.12239	0.01449	-0.00153	1.55731	0.71727	0.02693	0.64940
0.07743	-0.00713	1.64873	-0.02124	-2.09741	0.01074	-0.00155	1.48292	0.72131	0.02690	0.64832
0.07925	-0.14631	1.63972	-0.02383	-2.06744	0.00534	-0.00157	1.39571	0.72674	0.02711	0.64559
0.08111	-0.29378	1.63054	-0.02629	-2.03581	0.00040	-0.00159	1.30730	0.73274	0.02741	0.64219
0.08302	-0.42847	1.62224	-0.02870	-2.00718	-0.00142	-0.00162	1.23149	0.73796	0.02765	0.63945
0.08498	-0.54052	1.61556	-0.03112	-1.98399	0.00125	-0.00165	1.17349	0.74169	0.02774	0.63817
0.08697	-0.62461	1.61051	-0.03365	-1.96721	0.00805	-0.00168	1.13480	0.74355	0.02772	0.63834
0.08902	-0.68632	1.60627	-0.03642	-1.95504	0.01669	-0.00171	1.11030	0.74394	0.02766	0.63961
0.09112	-0.73270	1.60188	-0.03955	-1.94532	0.02463	-0.00173	1.09434	0.74342	0.02759	0.64161
0.09326	-0.76476	1.59696	-0.04308	-1.93747	0.03159	-0.00175	1.08597	0.74204	0.02747	0.64448
0.09545	-0.78179	1.59158	-0.04690	-1.93167	0.03891	-0.00176	1.08638	0.73957	0.02727	0.64821
0.09770	-0.78697	1.58576	-0.05088	-1.92730	0.04745	-0.00177	1.09464	0.73612	0.02698	0.65265
0.10000	-0.78264	1.57942	-0.05495	-1.92395	0.05669	-0.00179	1.10906	0.73188	0.02670	0.65691
0.10235	-0.76892	1.57265	-0.05906	-1.92184	0.06552	-0.00180	1.12868	0.72705	0.02657	0.65995
0.10476	-0.74616	1.56588	-0.06321	-1.92138	0.07379	-0.00181	1.15317	0.72175	0.02661	0.66173
0.10723	-0.71421	1.55977	-0.06740	-1.92325	0.08231	-0.00181	1.18343	0.71598	0.02677	0.66261
0.10975	-0.67097	1.55487	-0.07166	-1.92833	0.09226	-0.00181	1.22177	0.70956	0.02697	0.66307
0.11233	-0.61731	1.55082	-0.07605	-1.93611	0.10399	-0.00181	1.26843	0.70249	0.02703	0.66434
0.11498	-0.55890	1.54690	-0.08053	-1.94476	0.11676	-0.00182	1.32051	0.69507	0.02672	0.66788
0.11768	-0.50294	1.54297	-0.08494	-1.95271	0.13006	-0.00182	1.37456	0.68770	0.02598	0.67406
0.12045	-0.45404	1.53939	-0.08907	-1.95938	0.14380	-0.00184	1.42843	0.68065	0.02492	0.68248
0.12328	-0.41190	1.53656	-0.09286	-1.96512	0.15791	-0.00186	1.48217	0.67397	0.02366	0.69246
0.12619	-0.37330	1.53477	-0.09640	-1.97091	0.17204	-0.00189	1.53664	0.66763	0.02233	0.70308
0.12916	-0.33619	1.53393	-0.09980	-1.97723	0.18564	-0.00191	1.59141	0.66166	0.02103	0.71360
0.13219	-0.30488	1.53371	-0.10304	-1.98314	0.19836	-0.00193	1.64248	0.65629	0.01981	0.72357
0.13531	-0.27992	1.53421	-0.10616	-1.98872	0.21057	-0.00194	1.68946	0.65148	0.01874	0.73227
0.13849	-0.25987	1.53564	-0.10923	-1.99449	0.22203	-0.00195	1.73280	0.64716	0.01798	0.73860
0.14175	-0.24208	1.53770	-0.11234	-2.00070	0.23277	-0.00196	1.77409	0.64312	0.01746	0.74289
0.14508	-0.22174	1.54009	-0.11554	-2.00789	0.24348	-0.00197	1.81764	0.63899	0.01703	0.74622
0.14850	-0.20034	1.54272	-0.11883	-2.01562	0.25429	-0.00198	1.86288	0.63480	0.01662	0.74919
0.15199	-0.18257	1.54495	-0.12211	-2.02226	0.26512	-0.00199	1.90778	0.63064	0.01613	0.75255
0.15557	-0.16811	1.54686	-0.12545	-2.02791	0.27640	-0.00200	1.95270	0.62649	0.01561	0.75596
0.15923	-0.14988	1.54907	-0.12899	-2.03448	0.28848	-0.00201	2.00286	0.62208	0.01517	0.75896
0.16298	-0.12240	1.55162	-0.13277	-2.04301	0.30137	-0.00203	2.06277	0.61719	0.01476	0.76199
0.16681	-0.08526	1.55418	-0.13671	-2.05316	0.31469	-0.00204	2.13355	0.61179	0.01419	0.76628
0.17074	-0.04195	1.55671	-0.14071	-2.06430	0.32824	-0.00206	2.21248	0.60610	0.01346	0.77195
0.17475	0.01020	1.55976	-0.14477	-2.07762	0.34137	-0.00206	2.30064	0.60016	0.01271	0.77793
0.17887	0.06997	1.56334	-0.14887	-2.09317	0.35355	-0.00206	2.39542	0.59414	0.01206	0.78322
0.18307	0.12410	1.56710	-0.15292	-2.10828	0.36429	-0.00206	2.48408	0.58862	0.01158	0.78739
0.18738	0.16129	1.57053	-0.15691	-2.12035	0.37196	-0.00205	2.55407	0.58415	0.01121	0.79075
0.19179	0.17145	1.57316	-0.16079	-2.12717	0.37506	-0.00203	2.59319	0.58119	0.01092	0.79359
0.19631	0.14800	1.57462	-0.16445	-2.12732	0.37312	-0.00201	2.59383	0.57996	0.01066	0.79599
0.20092	0.07746	1.57412	-0.16786	-2.11751	0.36774	-0.00200	2.54488	0.58081	0.01049	0.79751
0.20565	-0.02106	1.57279	-0.17109	-2.10222	0.36049	-0.00198	2.46711	0.58295	0.01036	0.79862
0.21049	-0.15002	1.57017	-0.17412	-2.08044	0.35060	-0.00197	2.36078	0.58646	0.01022	0.79950
0.21544	-0.30376	1.56663	-0.17702	-2.05352	0.33753	-0.00196	2.23342	0.59119	0.01013	0.80003
0.22051	-0.48404	1.56231	-0.17974	-2.02117	0.32268	-0.00196	2.08743	0.59718	0.01021	0.79925
0.22570	-0.67578	1.55674	-0.18280	-1.98580	0.30569	-0.00196	1.93549	0.60385	0.01051	0.79726
0.23101	-0.87346	1.55101	-0.18614	-1.94937	0.28787	-0.00195	1.78462	0.61103	0.01110	0.79343
0.23645	-1.07309	1.54373	-0.19001	-1.91125	0.26926	-0.00194	1.63829	0.61835	0.01187	0.78884
0.24201	-1.27087	1.53599	-0.19407	-1.87290	0.25096	-0.00194	1.50230	0.62556	0.01275	0.78388
0.24771	-1.45863	1.52962	-0.19814	-1.83767	0.23418	-0.00194	1.38321	0.63227	0.01378	0.77819
0.25354	-1.63212	1.52486	-0.20218	-1.80654	0.21999	-0.00194	1.28345	0.63807	0.01473	0.77325
0.25950	-1.77876	1.51905	-0.20691	-1.77971	0.20468	-0.00193	1.20485	0.64210	0.01551	0.76976
0.26561	-1.90811	1.51340	-0.21189	-1.75636	0.18954	-0.00191	1.14201	0.64479	0.01604	0.76813
0.27186	-2.01677	1.50697	-0.21738	-1.73626	0.17355	-0.00187	1.09492	0.64581	0.01640	0.76775
0.27826	-2.11378	1.50207	-0.22288	-1.71963	0.16115	-0.00185	1.06120	0.64553	0.01657	0.76852
0.28480	-2.20433	1.49754	-0.22838	-1.70461	0.14969	-0.00182	1.03486	0.64439	0.01660	0.76990
0.29150	-2.29332	1.49303	-0.23378	-1.69010	0.13847	-0.00180	1.01205	0.64271	0.01625	0.77348
0.29836	-2.37962	1.48796	-0.23931	-1.67580	0.12720	-0.00177	0.99221	0.64040	0.01545	0.77976

0.30539	-2.46778	1.48290	-0.24483	-1.66135	0.11644	-0.00174	0.97342	0.63779	0.01426	0.78846
0.31257	-2.56337	1.47854	-0.25019	-1.64631	0.10642	-0.00172	0.95272	0.63538	0.01283	0.79847
0.31993	-2.66354	1.47441	-0.25570	-1.63095	0.09641	-0.00170	0.93079	0.63299	0.01143	0.80794
0.32745	-2.76414	1.47042	-0.26150	-1.61601	0.08633	-0.00167	0.90942	0.63034	0.01004	0.81692
0.33517	-2.87136	1.46679	-0.26735	-1.60037	0.07703	-0.00165	0.88615	0.62784	0.00866	0.82566
0.34304	-2.98217	1.46483	-0.27311	-1.58570	0.07027	-0.00164	0.86401	0.62537	0.00741	0.83323
0.35112	-3.09271	1.46462	-0.27890	-1.57300	0.06528	-0.00163	0.84512	0.62264	0.00658	0.83777
0.35938	-3.20448	1.46581	-0.28457	-1.56145	0.06158	-0.00163	0.82868	0.61977	0.00596	0.84067
0.36784	-3.30985	1.46736	-0.29059	-1.55157	0.05999	-0.00164	0.81840	0.61590	0.00556	0.84195
0.37649	-3.40703	1.47017	-0.29672	-1.54478	0.06033	-0.00165	0.81573	0.61098	0.00542	0.84121
0.38536	-3.49733	1.47408	-0.30289	-1.54071	0.06328	-0.00166	0.82018	0.60509	0.00553	0.83846
0.39442	-3.58713	1.47844	-0.30904	-1.53712	0.06942	-0.00168	0.82823	0.59862	0.00583	0.83427
0.40370	-3.68381	1.48306	-0.31494	-1.53236	0.07572	-0.00172	0.83552	0.59220	0.00618	0.82951
0.41321	-3.78890	1.48734	-0.32070	-1.52553	0.08156	-0.00175	0.84020	0.58597	0.00657	0.82426
0.42292	-3.90244	1.49126	-0.32643	-1.51659	0.08688	-0.00180	0.84165	0.57999	0.00713	0.81789
0.43288	-4.02636	1.49504	-0.33210	-1.50542	0.09126	-0.00184	0.83881	0.57440	0.00798	0.80976
0.44307	-4.15910	1.49886	-0.33772	-1.49245	0.09539	-0.00188	0.83239	0.56916	0.00913	0.80003
0.45349	-4.29716	1.50264	-0.34328	-1.47832	0.09974	-0.00193	0.82456	0.56399	0.01050	0.78923
0.46417	-4.43466	1.50618	-0.34889	-1.46402	0.10362	-0.00197	0.81892	0.55829	0.01198	0.77796
0.47508	-4.57015	1.51001	-0.35439	-1.45036	0.10888	-0.00202	0.81715	0.55192	0.01351	0.76662
0.48626	-4.70118	1.51423	-0.35974	-1.43804	0.11572	-0.00206	0.82063	0.54474	0.01505	0.75537
0.49771	-4.82441	1.51843	-0.36501	-1.42742	0.12291	-0.00211	0.83086	0.53655	0.01651	0.74486
0.50942	-4.94400	1.52290	-0.37004	-1.41776	0.13221	-0.00215	0.84608	0.52767	0.01778	0.73584
0.52140	-5.06140	1.52781	-0.37477	-1.40899	0.14249	-0.00220	0.86539	0.51831	0.01885	0.72817
0.53367	-5.17711	1.53307	-0.37925	-1.40091	0.15315	-0.00224	0.88825	0.50860	0.01975	0.72170
0.54624	-5.29075	1.53843	-0.38350	-1.39339	0.16400	-0.00229	0.91447	0.49860	0.02052	0.71624
0.55910	-5.40223	1.54397	-0.38754	-1.38652	0.17507	-0.00233	0.94440	0.48834	0.02120	0.71150
0.57225	-5.51326	1.54994	-0.39133	-1.38019	0.18614	-0.00237	0.97724	0.47796	0.02181	0.70724
0.58569	-5.62481	1.55642	-0.39485	-1.37423	0.19710	-0.00241	1.01209	0.46762	0.02234	0.70348
0.59948	-5.73674	1.56318	-0.39816	-1.36851	0.20815	-0.00245	1.04898	0.45731	0.02279	0.70039
0.61357	-5.84773	1.56995	-0.40129	-1.36298	0.21926	-0.00248	1.08789	0.44706	0.02315	0.69809
0.62802	-5.95915	1.57683	-0.40425	-1.35751	0.23046	-0.00252	1.12867	0.43686	0.02344	0.69642
0.64280	-6.07204	1.58409	-0.40699	-1.35207	0.24161	-0.00255	1.17062	0.42681	0.02369	0.69519
0.65794	-6.18678	1.59181	-0.40955	-1.34670	0.25273	-0.00259	1.21375	0.41690	0.02390	0.69431
0.67340	-6.30182	1.59978	-0.41194	-1.34146	0.26387	-0.00262	1.25845	0.40713	0.02408	0.69390
0.68927	-6.41627	1.60775	-0.41421	-1.33641	0.27516	-0.00266	1.30590	0.39735	0.02421	0.69413
0.70547	-6.52902	1.61566	-0.41633	-1.33165	0.28660	-0.00269	1.35648	0.38758	0.02428	0.69491
0.72207	-6.64134	1.62381	-0.41829	-1.32726	0.29826	-0.00273	1.41077	0.37779	0.02431	0.69600
0.73910	-6.75431	1.63245	-0.42004	-1.32326	0.31011	-0.00276	1.46837	0.36805	0.02429	0.69706
0.75649	-6.86784	1.64156	-0.42158	-1.31961	0.32200	-0.00279	1.52857	0.35847	0.02425	0.69776
0.77429	-6.98159	1.65093	-0.42295	-1.31621	0.33391	-0.00282	1.59123	0.34904	0.02418	0.69780
0.79246	-7.09432	1.66026	-0.42417	-1.31299	0.34577	-0.00285	1.65620	0.33980	0.02412	0.69694
0.81116	-7.20690	1.66958	-0.42526	-1.30993	0.35770	-0.00288	1.72431	0.33063	0.02406	0.69532
0.83022	-7.31883	1.67898	-0.42620	-1.30709	0.36954	-0.00291	1.79477	0.32166	0.02398	0.69317
0.84976	-7.43186	1.68878	-0.42696	-1.30447	0.38131	-0.00294	1.86758	0.31288	0.02390	0.69074
0.86972	-7.54589	1.69908	-0.42753	-1.30214	0.39294	-0.00297	1.94235	0.30437	0.02380	0.68839
0.89023	-7.66136	1.70987	-0.42793	-1.30008	0.40450	-0.00300	2.01946	0.29608	0.02368	0.68653
0.91116	-7.77651	1.72083	-0.42820	-1.29824	0.41593	-0.00302	2.09835	0.28806	0.02354	0.68559
0.93257	-7.89103	1.73176	-0.42836	-1.29655	0.42727	-0.00305	2.17918	0.28027	0.02339	0.68564
0.95456	-8.00504	1.74261	-0.42841	-1.29500	0.43858	-0.00307	2.26247	0.27267	0.02324	0.68664
0.97704	-8.11849	1.75345	-0.42834	-1.29361	0.44983	-0.00310	2.34765	0.26532	0.02308	0.68851
1.00000	-8.23225	1.76449	-0.42812	-1.29239	0.46097	-0.00312	2.43406	0.25824	0.02291	0.69117
1.02354	-8.34758	1.77596	-0.42772	-1.29134	0.47201	-0.00314	2.52125	0.25146	0.02271	0.69452
1.04767	-8.46483	1.78792	-0.42714	-1.29044	0.48292	-0.00316	2.60844	0.24501	0.02249	0.69845
1.07227	-8.58312	1.80022	-0.42640	-1.28964	0.49365	-0.00318	2.69474	0.23891	0.02226	0.70280
1.09745	-8.70233	1.81272	-0.42553	-1.28889	0.50422	-0.00320	2.78019	0.23312	0.02203	0.70749
1.12334	-8.82236	1.82526	-0.42455	-1.28813	0.51470	-0.00322	2.86493	0.22761	0.02180	0.71247
1.14982	-8.94223	1.83765	-0.42346	-1.28730	0.52502	-0.00324	2.94832	0.22237	0.02159	0.71762
1.17675	-9.06141	1.84981	-0.42228	-1.28640	0.53510	-0.00326	3.02938	0.21744	0.02139	0.72281
1.20453	-9.18213	1.86204	-0.42097	-1.28540	0.54509	-0.00328	3.10879	0.21276	0.02120	0.72801
1.23289	-9.30374	1.87438	-0.41953	-1.28437	0.55487	-0.00330	3.18524	0.20839	0.02102	0.73302
1.26183	-9.42662	1.88695	-0.41795	-1.28332	0.56443	-0.00332	3.25840	0.20432	0.02082	0.73781
1.29149	-9.55164	1.89991	-0.41621	-1.28228	0.57382	-0.00334	3.32827	0.20055	0.02060	0.74250
1.32188	-9.67867	1.91325	-0.41432	-1.28125	0.58302	-0.00335	3.39465	0.19707	0.02036	0.74718
1.35300	-9.80739	1.92685	-0.41229	-1.28019	0.59202	-0.00337	3.45719	0.19386	0.02011	0.75195
1.38485	-9.93738	1.94059	-0.41016	-1.27904	0.60080	-0.00339	3.51545	0.19092	0.01983	0.75691
1.41743	-10.06814	1.95429	-0.40793	-1.27774	0.60934	-0.00340	3.56919	0.18822	0.01955	0.76221
1.45075	-10.19918	1.96783	-0.40563	-1.27627	0.61764	-0.00342	3.61840	0.18575	0.01927	0.76789
1.48500	-10.33100	1.98124	-0.40325	-1.27464	0.62578	-0.00343	3.66347	0.18348	0.01898	0.77400
1.51999	-10.46268	1.99445	-0.40079	-1.27288	0.63370	-0.00345	3.70413	0.18143	0.01869	0.78049
1.55569	-10.59437	2.00753	-0.39824	-1.27101	0.64140	-0.00346	3.74032	0.17960	0.01839	0.78734
1.59236	-10.72720	2.02065	-0.39558	-1.26907	0.64894	-0.00348	3.77223	0.17798	0.01807	0.79460
1.62973	-10.86050	2.03383	-0.39282	-1.26711	0.65627	-0.00349	3.79970	0.17658	0.01773	0.80219
1.66806	-10.99535	2.04724	-0.38992	-1.26514	0.66344	-0.00350	3.82308	0.17540	0.01736	0.81015
1.70736	-11.13179	2.06092	-0.38690	-1.26319	0.67044	-0.00352	3.84246	0.17441	0.01696	0.81849
1.74764	-11.26970	2.07487	-0.38374	-1.26127	0.67730	-0.00353	3.85819	0.17362	0.01652	0.82718
1.78859	-11.40778	2.08894	-0.38048	-1.25941	0.68397	-0.00354	3.87036	0.17301	0.01606	0.83614
1.83083	-11.54774	2.10328	-0.37709	-1.25758	0.69057	-0.00355	3.87956	0.17256	0.01558	0.84550
1.87371	-11.68697	2.11757	-0.37362	-1.25581	0.69700	-0.00356	3.88613	0.17224	0.01508	0.85505
1.91791	-11.82730	2.13195	-0.37005	-1.25405	0.70337	-0.00357	3.89044	0.17204	0.01458	0.86488
1.96309	-11.96730	2.14622	-0.36640	-1.25230	0.70963	-0.00357	3.89236	0.17196	0.01408	0.87480

2.00924	-12.10664	2.16032	-0.36270	-1.25055	0.71577	-0.00358	3.89215	0.17198	0.01358	0.88465
2.05634	-12.24508	2.17421	-0.35893	-1.24882	0.72180	-0.00359	3.89004	0.17209	0.01310	0.89430
2.10482	-12.38368	2.18800	-0.35507	-1.24710	0.72779	-0.00360	3.88628	0.17229	0.01263	0.90367
2.15424	-12.52119	2.20157	-0.35116	-1.24542	0.73367	-0.00361	3.88105	0.17257	0.01217	0.91250
2.20507	-12.65892	2.21509	-0.34716	-1.24377	0.73951	-0.00361	3.87448	0.17293	0.01172	0.92075
2.25683	-12.79562	2.22847	-0.34309	-1.24219	0.74526	-0.00362	3.86695	0.17336	0.01129	0.92839
2.31000	-12.93263	2.24187	-0.33893	-1.24070	0.75096	-0.00363	3.85870	0.17383	0.01086	0.93559
2.36463	-13.07001	2.25533	-0.33467	-1.23931	0.75664	-0.00363	3.85007	0.17435	0.01043	0.94244
2.42014	-13.20639	2.26876	-0.33035	-1.23806	0.76224	-0.00364	3.84152	0.17489	0.01001	0.94899
2.47709	-13.34311	2.28229	-0.32593	-1.23694	0.76781	-0.00364	3.83317	0.17546	0.00959	0.95545
2.53550	-13.48017	2.29593	-0.32141	-1.23595	0.77334	-0.00364	3.82488	0.17604	0.00917	0.96198
2.59471	-13.61605	2.30955	-0.31687	-1.23509	0.77877	-0.00365	3.81679	0.17663	0.00876	0.96865
2.65604	-13.75357	2.32338	-0.31218	-1.23434	0.78421	-0.00365	3.80907	0.17723	0.00834	0.97564
2.71887	-13.89107	2.33728	-0.30743	-1.23372	0.78960	-0.00365	3.80160	0.17783	0.00792	0.98295
2.78242	-14.02687	2.35106	-0.30266	-1.23321	0.79487	-0.00365	3.79453	0.17843	0.00751	0.99053
2.84819	-14.16379	2.36494	-0.29777	-1.23281	0.80014	-0.00365	3.78799	0.17903	0.00710	0.99864
2.91545	-14.30029	2.37884	-0.29288	-1.23249	0.80536	-0.00365	3.78154	0.17962	0.00671	1.00723
2.98329	-14.43422	2.39238	-0.28796	-1.23226	0.81040	-0.00365	3.77589	0.18019	0.00632	1.01609
3.05344	-14.56890	2.40602	-0.28301	-1.23210	0.81547	-0.00365	3.77027	0.18076	0.00595	1.02521
3.12598	-14.70431	2.41962	-0.27791	-1.23200	0.82048	-0.00364	3.76517	0.18131	0.00559	1.03443
3.19898	-14.83648	2.43287	-0.27293	-1.23196	0.82537	-0.00364	3.76040	0.18184	0.00525	1.04320
3.27439	-14.96931	2.44606	-0.26781	-1.23197	0.83019	-0.00364	3.75600	0.18236	0.00492	1.05153
3.35121	-15.10030	2.45900	-0.26276	-1.23202	0.83495	-0.00364	3.75197	0.18286	0.00462	1.05914
3.43053	-15.23193	2.47187	-0.25757	-1.23212	0.83964	-0.00363	3.74825	0.18335	0.00433	1.06637
3.51124	-15.36147	2.48449	-0.25248	-1.23226	0.84426	-0.00363	3.74488	0.18381	0.00405	1.07332
3.59324	-15.48951	2.49676	-0.24727	-1.23244	0.84869	-0.00362	3.74198	0.18426	0.00379	1.08038
3.67782	-15.61749	2.50913	-0.24220	-1.23267	0.85319	-0.00362	3.73921	0.18469	0.00354	1.08788
3.76506	-15.74549	2.52111	-0.23681	-1.23294	0.85748	-0.00361	3.73726	0.18511	0.00328	1.09633
3.85356	-15.87207	2.53330	-0.23175	-1.23327	0.86185	-0.00361	3.73520	0.18549	0.00306	1.10536
3.94477	-15.99773	2.54481	-0.22632	-1.23364	0.86593	-0.00360	3.73429	0.18587	0.00282	1.11513
4.03714	-16.12278	2.55672	-0.22117	-1.23407	0.87009	-0.00359	3.73316	0.18622	0.00260	1.12502
4.13223	-16.24625	2.56809	-0.21591	-1.23455	0.87408	-0.00359	3.73317	0.18654	0.00239	1.13505
4.23012	-16.37084	2.57947	-0.21040	-1.23510	0.87793	-0.00358	3.73325	0.18688	0.00217	1.14491
4.32900	-16.49314	2.59114	-0.20542	-1.23572	0.88191	-0.00357	3.73411	0.18713	0.00199	1.15392
4.43066	-16.61375	2.60169	-0.19983	-1.23635	0.88544	-0.00356	3.73548	0.18743	0.00177	1.16254
4.53515	-16.73676	2.61325	-0.19455	-1.23710	0.88918	-0.00355	3.73715	0.18768	0.00159	1.17042
4.64253	-16.85755	2.62443	-0.18942	-1.23790	0.89286	-0.00354	3.74015	0.18787	0.00141	1.17772
4.75059	-16.97555	2.63449	-0.18369	-1.23868	0.89600	-0.00354	3.74229	0.18816	0.00120	1.18458
4.86145	-17.09600	2.64607	-0.17864	-1.23963	0.89957	-0.00352	3.74620	0.18830	0.00103	1.19068
4.97760	-17.21517	2.65679	-0.17339	-1.24060	0.90292	-0.00351	3.75091	0.18843	0.00085	1.19657
5.09424	-17.33180	2.66648	-0.16751	-1.24156	0.90578	-0.00350	3.75400	0.18871	0.00063	1.20220
5.21376	-17.45156	2.67807	-0.16250	-1.24270	0.90912	-0.00349	3.76010	0.18876	0.00047	1.20714
5.33618	-17.56651	2.68844	-0.15750	-1.24381	0.91219	-0.00348	3.76673	0.18880	0.00031	1.21194
5.46150	-17.67973	2.69726	-0.15149	-1.24487	0.91467	-0.00347	3.77000	0.18911	0.00007	1.21699
5.58971	-17.79750	2.70830	-0.14629	-1.24613	0.91761	-0.00345	3.77704	0.18914	-0.00011	1.22161
5.72082	-17.91218	2.71934	-0.14177	-1.24742	0.92063	-0.00344	3.78712	0.18898	-0.00024	1.22611
5.85823	-18.02304	2.72735	-0.13573	-1.24857	0.92286	-0.00343	3.79052	0.18931	-0.00049	1.23157
5.99520	-18.13576	2.73669	-0.13001	-1.24985	0.92518	-0.00341	3.79575	0.18950	-0.00071	1.23687
6.13497	-18.25139	2.74836	-0.12561	-1.25129	0.92798	-0.00340	3.80849	0.18921	-0.00083	1.24173
6.28141	-18.36025	2.75727	-0.12066	-1.25259	0.93032	-0.00338	3.81724	0.18918	-0.00101	1.24728
6.42674	-18.46284	2.76370	-0.11451	-1.25378	0.93202	-0.00337	3.81769	0.18967	-0.00129	1.25345
6.57895	-18.57512	2.77318	-0.10900	-1.25520	0.93413	-0.00336	3.82504	0.18975	-0.00150	1.25942
6.73401	-18.68992	2.78498	-0.10494	-1.25676	0.93660	-0.00334	3.84256	0.18921	-0.00157	1.26484
6.89180	-18.79034	2.79213	-0.10008	-1.25803	0.93846	-0.00333	3.84959	0.18928	-0.00177	1.27108
7.05716	-18.88913	2.79689	-0.09364	-1.25926	0.93987	-0.00331	3.84565	0.19003	-0.00210	1.27827
7.22022	-18.99253	2.80455	-0.08819	-1.26065	0.94151	-0.00330	3.85045	0.19024	-0.00233	1.28462
7.39098	-19.10576	2.81585	-0.08401	-1.26223	0.94355	-0.00328	3.86860	0.18968	-0.00241	1.29015
7.56430	-19.20571	2.82390	-0.08005	-1.26359	0.94529	-0.00327	3.88204	0.18937	-0.00253	1.29564
7.73994	-19.28758	2.82513	-0.07400	-1.26464	0.94638	-0.00326	3.87026	0.19048	-0.00290	1.30220
7.92393	-19.37976	2.82899	-0.06802	-1.26593	0.94755	-0.00325	3.86506	0.19125	-0.00323	1.30817
8.11030	-19.47940	2.83582	-0.06285	-1.26735	0.94893	-0.00323	3.86913	0.19148	-0.00345	1.31314
8.29876	-19.58801	2.84663	-0.05916	-1.26886	0.95060	-0.00321	3.88883	0.19080	-0.00351	1.31677
8.49618	-19.67349	2.85042	-0.05495	-1.27002	0.95188	-0.00320	3.89080	0.19108	-0.00372	1.32118
8.69565	-19.73451	2.84640	-0.04896	-1.27102	0.95247	-0.00320	3.86804	0.19278	-0.00418	1.32690
8.90472	-19.80982	2.84630	-0.04328	-1.27233	0.95317	-0.00319	3.85800	0.19381	-0.00455	1.33204
9.11577	-19.88848	2.84779	-0.03806	-1.27369	0.95396	-0.00318	3.85344	0.19452	-0.00487	1.33679
9.32836	-19.98736	2.85537	-0.03365	-1.27514	0.95531	-0.00316	3.85971	0.19455	-0.00504	1.34066
9.54198	-20.07374	2.86077	-0.03022	-1.27636	0.95656	-0.00315	3.86630	0.19453	-0.00517	1.34455
9.76563	-20.10541	2.85141	-0.02598	-1.27738	0.95649	-0.00314	3.85330	0.19569	-0.00557	1.35071
10.00000	-20.13217	2.84055	-0.02146	-1.27856	0.95590	-0.00314	3.84743	0.19649	-0.00600	1.35770

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
High stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 15 - 30 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	4.23031	2.39437	-0.10569	-3.85025	1.22120	0.00029	20.04663	0.21444	-0.00875	0.44538
PGV	16.67798	1.70330	-0.16683	-4.88462	1.14364	0.00141	35.47913	0.19800	-0.00433	0.45274
PGA	6.73934	1.66735	-0.06464	-3.49528	0.37409	-0.00005	10.33316	0.44486	-0.02758	0.78793
0.01000	6.80477	1.67785	-0.06254	-3.49994	0.35130	-0.00005	10.51798	0.44740	-0.00120	0.70421
0.01024	6.81936	1.67844	-0.06223	-3.50218	0.35039	-0.00005	10.53566	0.44747	-0.00124	0.70482
0.01048	6.83763	1.67905	-0.06190	-3.50504	0.34953	-0.00005	10.55929	0.44748	-0.00129	0.70545
0.01072	6.85979	1.67970	-0.06155	-3.50855	0.34872	-0.00005	10.58920	0.44743	-0.00134	0.70609
0.01097	6.88603	1.68039	-0.06118	-3.51274	0.34794	-0.00004	10.62570	0.44733	-0.00141	0.70676
0.01123	6.91652	1.68113	-0.06079	-3.51764	0.34719	-0.00004	10.66900	0.44717	-0.00149	0.70746
0.01150	6.95148	1.68193	-0.06038	-3.52328	0.34645	-0.00004	10.71945	0.44696	-0.00157	0.70821
0.01177	6.99117	1.68280	-0.05993	-3.52969	0.34570	-0.00003	10.77745	0.44669	-0.00168	0.70902
0.01205	7.03643	1.68374	-0.05945	-3.53702	0.34495	-0.00003	10.84445	0.44636	-0.00179	0.70990
0.01233	7.08814	1.68479	-0.05892	-3.54541	0.34421	-0.00002	10.92197	0.44596	-0.00193	0.71086
0.01262	7.14677	1.68595	-0.05835	-3.55493	0.34343	-0.00001	11.01075	0.44549	-0.00208	0.71194
0.01292	7.21288	1.68723	-0.05773	-3.56569	0.34257	-0.00001	11.11144	0.44494	-0.00225	0.71315
0.01322	7.28714	1.68867	-0.05705	-3.57779	0.34163	0.00000	11.22507	0.44433	-0.00245	0.71449
0.01353	7.36941	1.69028	-0.05631	-3.59118	0.34063	0.00001	11.35173	0.44366	-0.00266	0.71601
0.01385	7.45800	1.69207	-0.05547	-3.60554	0.33954	0.00002	11.48897	0.44296	-0.00291	0.71776
0.01417	7.55160	1.69405	-0.05453	-3.62060	0.33828	0.00003	11.63455	0.44227	-0.00319	0.71976
0.01451	7.65127	1.69627	-0.05348	-3.63657	0.33684	0.00004	11.79004	0.44160	-0.00350	0.72204
0.01485	7.76015	1.69878	-0.05232	-3.65399	0.33519	0.00005	11.96021	0.44090	-0.00384	0.72459
0.01520	7.88130	1.70163	-0.05104	-3.67340	0.33326	0.00006	12.14987	0.44015	-0.00422	0.72748
0.01556	8.01454	1.70483	-0.04964	-3.69470	0.33104	0.00008	12.35993	0.43936	-0.00464	0.73080
0.01592	8.15723	1.70835	-0.04809	-3.71730	0.32867	0.00009	12.58860	0.43856	-0.00511	0.73456
0.01630	8.30302	1.71222	-0.04633	-3.74006	0.32616	0.00010	12.82563	0.43785	-0.00562	0.73870
0.01668	8.44710	1.71661	-0.04439	-3.76230	0.32326	0.00010	13.05972	0.43737	-0.00615	0.74316
0.01707	8.59325	1.72163	-0.04230	-3.78484	0.31970	0.00011	13.29385	0.43709	-0.00670	0.74789
0.01748	8.73922	1.72714	-0.04005	-3.80717	0.31539	0.00011	13.52508	0.43704	-0.00725	0.75275
0.01789	8.87268	1.73300	-0.03758	-3.82700	0.31044	0.00011	13.73496	0.43734	-0.00776	0.75744
0.01831	8.97449	1.73925	-0.03483	-3.84115	0.30456	0.00010	13.88746	0.43830	-0.00823	0.76199
0.01874	9.02708	1.74601	-0.03177	-3.84681	0.29758	0.00008	13.94757	0.44021	-0.00870	0.76671
0.01918	9.03744	1.75336	-0.02852	-3.84543	0.28952	0.00006	13.92457	0.44297	-0.00916	0.77142
0.01963	9.02028	1.76117	-0.02525	-3.83972	0.27997	0.00003	13.84066	0.44636	-0.00949	0.77525
0.02009	8.95235	1.76894	-0.02193	-3.82552	0.26860	0.00000	13.65841	0.45065	-0.00969	0.77818
0.02057	8.80679	1.77645	-0.01836	-3.79797	0.25613	-0.00004	13.34301	0.45616	-0.00989	0.78111
0.02105	8.60570	1.78409	-0.01461	-3.76105	0.24383	-0.00009	12.94031	0.46256	-0.01005	0.78374
0.02154	8.39263	1.79228	-0.01095	-3.72273	0.23214	-0.00015	12.52049	0.46928	-0.01001	0.78508
0.02205	8.17880	1.80111	-0.00739	-3.68522	0.22035	-0.00021	12.09716	0.47623	-0.00982	0.78541
0.02257	7.92480	1.81051	-0.00353	-3.64163	0.20767	-0.00026	11.61220	0.48405	-0.00961	0.78563
0.02310	7.60884	1.82097	0.00083	-3.58849	0.19424	-0.00033	11.03839	0.49320	-0.00935	0.78558
0.02364	7.26256	1.83284	0.00546	-3.53172	0.18069	-0.00041	10.42679	0.50326	-0.00895	0.78453
0.02420	6.90280	1.84528	0.01011	-3.47393	0.16757	-0.00048	9.80670	0.51382	-0.00838	0.78214
0.02477	6.52360	1.85739	0.01474	-3.41336	0.15496	-0.00055	9.17682	0.52490	-0.00778	0.77921
0.02535	6.14374	1.86846	0.01925	-3.35219	0.14228	-0.00062	8.57161	0.53614	-0.00733	0.77715
0.02595	5.79657	1.87763	0.02348	-3.29521	0.12947	-0.00068	8.03845	0.54676	-0.00713	0.77680
0.02656	5.47933	1.88585	0.02757	-3.24282	0.11652	-0.00073	7.56413	0.55690	-0.00704	0.77733
0.02719	5.16369	1.89622	0.03182	-3.19263	0.10263	-0.00078	7.10204	0.56757	-0.00677	0.77687
0.02783	4.84025	1.90955	0.03633	-3.14355	0.08833	-0.00083	6.64499	0.57898	-0.00616	0.77436
0.02848	4.53150	1.92277	0.04090	-3.09702	0.07575	-0.00088	6.23186	0.58999	-0.00535	0.77034
0.02915	4.25320	1.93229	0.04523	-3.05324	0.06619	-0.00093	5.88042	0.59965	-0.00452	0.76604
0.02984	3.98865	1.93639	0.04900	-3.00855	0.05877	-0.00097	5.55579	0.60841	-0.00380	0.76225
0.03054	3.72828	1.93685	0.05204	-2.96292	0.05122	-0.00100	5.23196	0.61714	-0.00318	0.75919
0.03126	3.48700	1.93867	0.05437	-2.92221	0.04146	-0.00102	4.92223	0.62622	-0.00266	0.75697
0.03199	3.28568	1.94574	0.05611	-2.89219	0.02901	-0.00102	4.65495	0.63532	-0.00218	0.75522
0.03275	3.13594	1.95625	0.05731	-2.87306	0.01550	-0.00102	4.45047	0.64343	-0.00158	0.75295
0.03352	3.03070	1.96439	0.05806	-2.85909	0.00288	-0.00101	4.30531	0.64973	-0.00091	0.75014
0.03430	2.93924	1.96581	0.05858	-2.84196	-0.00805	-0.00100	4.18706	0.65459	-0.00034	0.74784
0.03511	2.83268	1.95987	0.05894	-2.81673	-0.01718	-0.00100	4.06136	0.65894	-0.00001	0.74695
0.03594	2.69395	1.95047	0.05938	-2.78403	-0.02312	-0.00101	3.90990	0.66366	0.00007	0.74751
0.03678	2.51836	1.94377	0.06040	-2.74811	-0.02426	-0.00104	3.73276	0.66928	0.00009	0.74840
0.03765	2.31503	1.94261	0.06222	-2.71262	-0.02232	-0.00108	3.53980	0.67594	0.00025	0.74861
0.03854	2.11764	1.94587	0.06421	-2.68218	-0.02128	-0.00112	3.35367	0.68311	0.00059	0.74790
0.03944	1.96554	1.95036	0.06529	-2.66079	-0.02360	-0.00114	3.19807	0.68972	0.00108	0.74658
0.04037	1.88234	1.95189	0.06467	-2.64882	-0.02844	-0.00113	3.08928	0.69458	0.00159	0.74518
0.04132	1.84616	1.94876	0.06276	-2.64063	-0.03344	-0.00110	3.01766	0.69766	0.00208	0.74378
0.04229	1.80408	1.94326	0.06097	-2.62865	-0.03623	-0.00109	2.95534	0.70012	0.00265	0.74173
0.04329	1.71235	1.93802	0.06036	-2.60764	-0.03659	-0.00110	2.87354	0.70342	0.00338	0.73831
0.04431	1.56924	1.93350	0.06067	-2.57821	-0.03757	-0.00113	2.75997	0.70842	0.00432	0.73338
0.04535	1.40452	1.92948	0.06096	-2.54590	-0.04236	-0.00115	2.62340	0.71503	0.00531	0.72783

0.04642	1.24383	1.92580	0.06075	-2.51522	-0.05116	-0.00115	2.48065	0.72253	0.00609	0.72340
0.04751	1.09437	1.92116	0.05996	-2.48624	-0.06247	-0.00114	2.34187	0.73022	0.00650	0.72119
0.04863	0.94675	1.91495	0.05879	-2.45664	-0.07427	-0.00112	2.20698	0.73789	0.00669	0.72026
0.04977	0.80207	1.90863	0.05760	-2.42776	-0.08327	-0.00111	2.08359	0.74497	0.00703	0.71838
0.05094	0.68748	1.90365	0.05632	-2.40543	-0.08682	-0.00112	1.99131	0.75006	0.00780	0.71364
0.05214	0.61255	1.90009	0.05486	-2.39116	-0.08535	-0.00113	1.93306	0.75284	0.00905	0.70581
0.05337	0.56806	1.89635	0.05316	-2.38176	-0.08080	-0.00114	1.89902	0.75386	0.01055	0.69643
0.05462	0.55671	1.89016	0.05096	-2.37573	-0.07419	-0.00116	1.88706	0.75306	0.01200	0.68748
0.05591	0.56676	1.88109	0.04831	-2.37073	-0.06664	-0.00116	1.88758	0.75114	0.01309	0.68100
0.05722	0.59946	1.86987	0.04486	-2.36779	-0.06010	-0.00116	1.89678	0.74855	0.01370	0.67789
0.05857	0.65029	1.85879	0.04048	-2.36817	-0.05659	-0.00113	1.90970	0.74599	0.01400	0.67710
0.05995	0.70502	1.85071	0.03579	-2.37168	-0.05433	-0.00110	1.92436	0.74372	0.01424	0.67703
0.06136	0.74094	1.84641	0.03183	-2.37502	-0.04883	-0.00109	1.93693	0.74170	0.01449	0.67695
0.06280	0.73609	1.84378	0.02917	-2.37269	-0.03871	-0.00110	1.93618	0.74037	0.01469	0.67712
0.06428	0.69031	1.83957	0.02723	-2.36210	-0.02771	-0.00113	1.91287	0.74025	0.01487	0.67712
0.06579	0.57902	1.83274	0.02571	-2.33817	-0.02268	-0.00116	1.84187	0.74353	0.01529	0.67555
0.06734	0.41701	1.82280	0.02400	-2.30308	-0.02741	-0.00117	1.72914	0.75028	0.01598	0.67216
0.06893	0.21308	1.81140	0.02219	-2.25929	-0.04212	-0.00118	1.58769	0.76032	0.01676	0.66840
0.07055	0.02005	1.79980	0.01982	-2.21690	-0.06296	-0.00116	1.45437	0.77098	0.01737	0.66580
0.07221	-0.14844	1.78941	0.01693	-2.17944	-0.08654	-0.00113	1.33879	0.78135	0.01767	0.66509
0.07391	-0.29117	1.77985	0.01345	-2.14693	-0.10956	-0.00110	1.24098	0.79099	0.01768	0.66600
0.07565	-0.40705	1.77080	0.00947	-2.11931	-0.12869	-0.00106	1.16207	0.79923	0.01752	0.66772
0.07743	-0.47328	1.76247	0.00498	-2.10094	-0.14018	-0.00104	1.11435	0.80393	0.01729	0.66943
0.07925	-0.49008	1.75635	0.00057	-2.09311	-0.14242	-0.00103	1.09932	0.80447	0.01711	0.67048
0.08111	-0.45544	1.75195	-0.00383	-2.09607	-0.13609	-0.00103	1.11560	0.80078	0.01704	0.67067
0.08302	-0.38775	1.74872	-0.00819	-2.10625	-0.12490	-0.00104	1.15139	0.79461	0.01716	0.66982
0.08498	-0.29883	1.74636	-0.01251	-2.12138	-0.11213	-0.00104	1.19886	0.78722	0.01750	0.66779
0.08697	-0.20121	1.74461	-0.01661	-2.13903	-0.09931	-0.00103	1.25218	0.77944	0.01799	0.66508
0.08902	-0.09957	1.74212	-0.02056	-2.15722	-0.08644	-0.00102	1.30986	0.77125	0.01845	0.66276
0.09112	-0.01729	1.73898	-0.02399	-2.17174	-0.07256	-0.00102	1.36269	0.76352	0.01878	0.66150
0.09326	0.03478	1.73565	-0.02688	-2.18084	-0.05731	-0.00104	1.40586	0.75668	0.01891	0.66162
0.09545	0.04441	1.73230	-0.02934	-2.18231	-0.04275	-0.00107	1.42994	0.75170	0.01893	0.66263
0.09770	0.00364	1.72810	-0.03160	-2.17387	-0.03178	-0.00111	1.42574	0.74946	0.01887	0.66413
0.10000	-0.08434	1.72188	-0.03393	-2.15498	-0.02586	-0.00115	1.39165	0.75012	0.01866	0.66662
0.10235	-0.20171	1.71321	-0.03663	-2.12836	-0.02458	-0.00119	1.33687	0.75292	0.01820	0.67075
0.10476	-0.32422	1.70254	-0.03997	-2.09875	-0.02662	-0.00121	1.27541	0.75665	0.01762	0.67588
0.10723	-0.44776	1.69121	-0.04364	-2.06812	-0.03079	-0.00123	1.21188	0.76098	0.01707	0.68086
0.10975	-0.56592	1.68020	-0.04731	-2.03870	-0.03491	-0.00124	1.15220	0.76520	0.01666	0.68492
0.11233	-0.68014	1.67036	-0.05064	-2.01109	-0.03793	-0.00126	1.09715	0.76922	0.01641	0.68771
0.11498	-0.77305	1.66154	-0.05394	-1.98830	-0.04000	-0.00128	1.05443	0.77202	0.01629	0.68943
0.11768	-0.84123	1.65338	-0.05746	-1.97050	-0.04221	-0.00128	1.02446	0.77346	0.01623	0.69076
0.12045	-0.89479	1.64507	-0.06132	-1.95529	-0.04416	-0.00128	1.00147	0.77400	0.01621	0.69194
0.12328	-0.94870	1.63593	-0.06549	-1.93960	-0.04414	-0.00129	0.97898	0.77418	0.01625	0.69262
0.12619	-1.01608	1.62629	-0.06976	-1.92138	-0.04164	-0.00130	0.95192	0.77467	0.01633	0.69284
0.12916	-1.09052	1.61678	-0.07417	-1.90243	-0.03657	-0.00132	0.92344	0.77511	0.01643	0.69263
0.13219	-1.16848	1.60830	-0.07869	-1.88419	-0.02969	-0.00135	0.89509	0.77551	0.01666	0.69139
0.13531	-1.24680	1.60162	-0.08329	-1.86792	-0.02179	-0.00138	0.86822	0.77583	0.01723	0.68791
0.13849	-1.32216	1.59671	-0.08800	-1.85424	-0.01375	-0.00140	0.84364	0.77599	0.01824	0.68156
0.14175	-1.40332	1.59336	-0.09268	-1.84124	-0.00697	-0.00142	0.81726	0.77669	0.01961	0.67265
0.14508	-1.49617	1.59121	-0.09724	-1.82740	-0.00209	-0.00145	0.78647	0.77841	0.02122	0.66191
0.14850	-1.60021	1.59018	-0.10160	-1.81260	0.00091	-0.00147	0.75185	0.78117	0.02291	0.65033
0.15199	-1.71325	1.59018	-0.10567	-1.79701	0.00236	-0.00150	0.71509	0.78479	0.02445	0.63939
0.15557	-1.82969	1.59093	-0.10941	-1.78122	0.00321	-0.00152	0.67959	0.78870	0.02559	0.63094
0.15923	-1.94477	1.59179	-0.11290	-1.76531	0.00435	-0.00156	0.64770	0.79229	0.02607	0.62667
0.16298	-2.05176	1.59190	-0.11645	-1.74962	0.00609	-0.00160	0.62135	0.79498	0.02580	0.62756
0.16681	-2.14518	1.59060	-0.12037	-1.73463	0.00803	-0.00164	0.60125	0.79643	0.02480	0.63357
0.17074	-2.22031	1.58800	-0.12486	-1.72141	0.01027	-0.00168	0.58825	0.79632	0.02322	0.64384
0.17475	-2.27282	1.58492	-0.12998	-1.71174	0.01410	-0.00171	0.58425	0.79418	0.02134	0.65659
0.17887	-2.29882	1.58244	-0.13572	-1.70748	0.02094	-0.00173	0.59153	0.78954	0.01950	0.66956
0.18307	-2.29528	1.58119	-0.14202	-1.70991	0.03125	-0.00175	0.61205	0.78215	0.01792	0.68117
0.18738	-2.26502	1.58105	-0.14876	-1.71850	0.04439	-0.00176	0.64532	0.77239	0.01663	0.69114
0.19179	-2.21219	1.58149	-0.15573	-1.73209	0.05967	-0.00177	0.69021	0.76079	0.01546	0.70028
0.19631	-2.14136	1.58212	-0.16278	-1.74948	0.07664	-0.00177	0.74553	0.74792	0.01430	0.70931
0.20092	-2.05474	1.58287	-0.16988	-1.77018	0.09496	-0.00176	0.81119	0.73413	0.01315	0.71819
0.20565	-1.95970	1.58378	-0.17691	-1.79282	0.11427	-0.00175	0.88474	0.72010	0.01207	0.72645
0.21049	-1.86861	1.58471	-0.18374	-1.81481	0.13383	-0.00173	0.96037	0.70677	0.01109	0.73388
0.21544	-1.79137	1.58538	-0.19027	-1.83392	0.15310	-0.00172	1.03230	0.69476	0.01019	0.74071
0.22051	-1.72752	1.58566	-0.19654	-1.85003	0.17185	-0.00172	1.09965	0.68397	0.00925	0.74775
0.22570	-1.67307	1.58554	-0.20258	-1.86382	0.18964	-0.00171	1.16351	0.67415	0.00817	0.75586
0.23101	-1.62458	1.58510	-0.20838	-1.87591	0.20641	-0.00170	1.22524	0.66508	0.00689	0.76550
0.23645	-1.58324	1.58438	-0.21387	-1.88603	0.22214	-0.00169	1.28411	0.65678	0.00542	0.77660
0.24201	-1.55558	1.58327	-0.21892	-1.89274	0.23620	-0.00169	1.33537	0.64964	0.00381	0.78883
0.24771	-1.54789	1.58171	-0.22344	-1.89474	0.24841	-0.00169	1.37408	0.64398	0.00208	0.80197
0.25354	-1.56494	1.57967	-0.22744	-1.89111	0.25866	-0.00170	1.39593	0.64006	0.00026	0.81580
0.25950	-1.60786	1.57725	-0.23096	-1.88180	0.26709	-0.00172	1.39937	0.63792	-0.00157	0.82990
0.26561	-1.67321	1.57459	-0.23412	-1.86769	0.27389	-0.00175	1.38612	0.63738	-0.00332	0.84365
0.27186	-1.75191	1.57176	-0.23705	-1.85068	0.27954	-0.00178	1.36252	0.63785	-0.00494	0.85672
0.27826	-1.83451	1.56869	-0.23990	-1.83261	0.28428	-0.00181	1.33546	0.63868	-0.00644	0.86910
0.28480	-1.91511	1.56553	-0.24275	-1.81484	0.28799	-0.00183	1.30879	0.63953	-0.00777	0.88037
0.29150	-1.99222	1.56256	-0.24555	-1.79810	0.29104	-0.00185	1.28421	0.64022	-0.00887	0.88987
0.29836	-2.06566	1.55999	-0.24833	-1.78266	0.29376	-0.00187	1.26254	0.64065	-0.00963	0.89696

0.30539	-2.13811	1.55804	-0.25112	-1.76823	0.29638	-0.00188	1.24214	0.64099	-0.00998	0.90102
0.31257	-2.21360	1.55704	-0.25388	-1.75436	0.29879	-0.00189	1.22031	0.64159	-0.00988	0.90192
0.31993	-2.29289	1.55693	-0.25663	-1.74089	0.30104	-0.00190	1.19638	0.64250	-0.00940	0.90008
0.32745	-2.37371	1.55763	-0.25934	-1.72822	0.30332	-0.00191	1.17198	0.64352	-0.00862	0.89609
0.33517	-2.45412	1.55931	-0.26196	-1.71698	0.30548	-0.00192	1.14868	0.64451	-0.00761	0.89036
0.34304	-2.53134	1.56218	-0.26446	-1.70787	0.30827	-0.00193	1.12900	0.64520	-0.00642	0.88328
0.35112	-2.60579	1.56614	-0.26695	-1.70065	0.31239	-0.00195	1.11328	0.64547	-0.00508	0.87517
0.35938	-2.68002	1.57064	-0.26950	-1.69439	0.31723	-0.00197	1.09904	0.64551	-0.00360	0.86621
0.36784	-2.75941	1.57544	-0.27214	-1.68778	0.32192	-0.00199	1.08313	0.64562	-0.00201	0.85647
0.37649	-2.84742	1.58067	-0.27487	-1.68021	0.32600	-0.00201	1.06369	0.64606	-0.00025	0.84567
0.38536	-2.94462	1.58615	-0.27780	-1.67146	0.32920	-0.00205	1.03996	0.64691	0.00173	0.83344
0.39442	-3.05071	1.59169	-0.28101	-1.66139	0.33129	-0.00208	1.01198	0.64817	0.00392	0.81978
0.40370	-3.16424	1.59729	-0.28453	-1.65021	0.33260	-0.00212	0.98132	0.64967	0.00629	0.80516
0.41321	-3.28229	1.60262	-0.28831	-1.63820	0.33329	-0.00216	0.94968	0.65116	0.00858	0.79112
0.42292	-3.40251	1.60739	-0.29226	-1.62559	0.33218	-0.00220	0.91811	0.65251	0.01053	0.77958
0.43288	-3.52588	1.61154	-0.29632	-1.61204	0.32881	-0.00223	0.88659	0.65371	0.01194	0.77196
0.44307	-3.65103	1.61527	-0.30047	-1.59792	0.32426	-0.00226	0.85615	0.65467	0.01273	0.76869
0.45349	-3.77475	1.61894	-0.30475	-1.58431	0.32013	-0.00230	0.82895	0.65508	0.01304	0.76898
0.46417	-3.89685	1.62255	-0.30926	-1.57143	0.31526	-0.00233	0.80461	0.65493	0.01308	0.77140
0.47508	-4.01803	1.62620	-0.31407	-1.55932	0.30932	-0.00236	0.78263	0.65422	0.01304	0.77452
0.48626	-4.14185	1.63003	-0.31922	-1.54746	0.30237	-0.00237	0.76121	0.65326	0.01310	0.77705
0.49771	-4.27043	1.63383	-0.32480	-1.53517	0.29453	-0.00239	0.73895	0.65225	0.01340	0.77810
0.50942	-4.40742	1.63766	-0.33064	-1.52183	0.28651	-0.00240	0.71432	0.65141	0.01401	0.77698
0.52140	-4.54608	1.64172	-0.33674	-1.50892	0.28018	-0.00242	0.69135	0.65002	0.01492	0.77374
0.53367	-4.68101	1.64578	-0.34310	-1.49722	0.27589	-0.00243	0.67260	0.64761	0.01595	0.76947
0.54624	-4.80979	1.64952	-0.34960	-1.48674	0.27310	-0.00245	0.65904	0.64399	0.01687	0.76573
0.55910	-4.93252	1.65289	-0.35609	-1.47733	0.27107	-0.00246	0.65058	0.63917	0.01757	0.76344
0.57225	-5.05277	1.65610	-0.36244	-1.46846	0.26927	-0.00247	0.64556	0.63344	0.01803	0.76251
0.58569	-5.17488	1.65947	-0.36853	-1.45955	0.26786	-0.00247	0.64166	0.62732	0.01836	0.76215
0.59948	-5.30176	1.66321	-0.37438	-1.45031	0.26652	-0.00248	0.63695	0.62127	0.01871	0.76146
0.61357	-5.43108	1.66722	-0.38005	-1.44111	0.26478	-0.00249	0.63165	0.61531	0.01918	0.75991
0.62802	-5.56376	1.67145	-0.38557	-1.43162	0.26392	-0.00249	0.62611	0.60932	0.01976	0.75757
0.64280	-5.69788	1.67596	-0.39092	-1.42213	0.26433	-0.00250	0.62173	0.60299	0.02040	0.75468
0.65794	-5.83193	1.68087	-0.39614	-1.41302	0.26665	-0.00252	0.61993	0.59607	0.02111	0.75120
0.67340	-5.96399	1.68605	-0.40121	-1.40445	0.27142	-0.00254	0.62158	0.58845	0.02189	0.74723
0.68927	-6.09420	1.69110	-0.40610	-1.39604	0.27797	-0.00257	0.62669	0.58005	0.02265	0.74334
0.70547	-6.21899	1.69591	-0.41087	-1.38846	0.28544	-0.00260	0.63670	0.57067	0.02338	0.73968
0.72207	-6.34033	1.70065	-0.41545	-1.38148	0.29384	-0.00263	0.65169	0.56029	0.02402	0.73629
0.73910	-6.45846	1.70557	-0.41983	-1.37534	0.30247	-0.00266	0.67213	0.54893	0.02459	0.73290
0.75649	-6.57652	1.71060	-0.42392	-1.36909	0.31194	-0.00269	0.69624	0.53701	0.02506	0.72936
0.77429	-6.69478	1.71564	-0.42775	-1.36264	0.32175	-0.00272	0.72366	0.52466	0.02548	0.72513
0.79246	-6.81221	1.72060	-0.43132	-1.35612	0.33145	-0.00275	0.75410	0.51208	0.02592	0.71986
0.81116	-6.92953	1.72556	-0.43465	-1.34962	0.34106	-0.00278	0.78799	0.49921	0.02634	0.71387
0.83022	-7.04463	1.73066	-0.43763	-1.34365	0.35083	-0.00281	0.82614	0.48610	0.02666	0.70790
0.84976	-7.15874	1.73621	-0.44025	-1.33838	0.36106	-0.00284	0.86924	0.47272	0.02683	0.70248
0.86972	-7.27224	1.74236	-0.44245	-1.33380	0.37187	-0.00287	0.91698	0.45924	0.02684	0.69800
0.89023	-7.38601	1.74913	-0.44426	-1.32984	0.38344	-0.00290	0.96965	0.44568	0.02671	0.69473
0.91116	-7.49905	1.75624	-0.44570	-1.32637	0.39546	-0.00293	1.02643	0.43224	0.02646	0.69292
0.93257	-7.61149	1.76348	-0.44681	-1.32318	0.40769	-0.00296	1.08716	0.41893	0.02613	0.69240
0.95456	-7.72384	1.77075	-0.44763	-1.32014	0.41992	-0.00299	1.15186	0.40576	0.02575	0.69301
0.97704	-7.83651	1.77812	-0.44815	-1.31715	0.43198	-0.00301	1.21972	0.39284	0.02535	0.69462
1.00000	-7.95052	1.78579	-0.44838	-1.31415	0.44382	-0.00304	1.29022	0.38024	0.02491	0.69710
1.02354	-8.06697	1.79398	-0.44830	-1.31117	0.45560	-0.00306	1.36343	0.36797	0.02445	0.70038
1.04767	-8.18624	1.80278	-0.44791	-1.30819	0.46730	-0.00309	1.43884	0.35607	0.02398	0.70432
1.07227	-8.30755	1.81208	-0.44725	-1.30521	0.47882	-0.00312	1.51561	0.34463	0.02350	0.70873
1.09745	-8.43059	1.82173	-0.44634	-1.30221	0.49015	-0.00314	1.59381	0.33361	0.02304	0.71348
1.12334	-8.55504	1.83157	-0.44521	-1.29917	0.50128	-0.00317	1.67373	0.32293	0.02260	0.71848
1.14982	-8.67978	1.84139	-0.44389	-1.29607	0.51211	-0.00319	1.75472	0.31262	0.02220	0.72359
1.17675	-8.80415	1.85111	-0.44240	-1.29291	0.52253	-0.00321	1.83586	0.30274	0.02184	0.72868
1.20453	-8.93035	1.86097	-0.44071	-1.28964	0.53273	-0.00324	1.91804	0.29313	0.02151	0.73369
1.23289	-9.05779	1.87102	-0.43884	-1.28630	0.54262	-0.00326	1.99976	0.28395	0.02122	0.73843
1.26183	-9.18685	1.88141	-0.43677	-1.28291	0.55227	-0.00328	2.08065	0.27519	0.02094	0.74288
1.29149	-9.31833	1.89227	-0.43452	-1.27951	0.56174	-0.00330	2.16078	0.26684	0.02068	0.74713
1.32188	-9.45203	1.90361	-0.43208	-1.27612	0.57106	-0.00332	2.23987	0.25889	0.02043	0.75126
1.35300	-9.58748	1.91535	-0.42948	-1.27275	0.58018	-0.00334	2.31755	0.25137	0.02020	0.75536
1.38485	-9.72390	1.92733	-0.42674	-1.26943	0.58907	-0.00336	2.39375	0.24425	0.01999	0.75953
1.41743	-9.86041	1.93940	-0.42390	-1.26619	0.59772	-0.00338	2.46853	0.23750	0.01980	0.76390
1.45075	-9.99642	1.95143	-0.42097	-1.26302	0.60608	-0.00340	2.54164	0.23114	0.01964	0.76851
1.48500	-10.13239	1.96342	-0.41793	-1.25992	0.61421	-0.00342	2.61338	0.22511	0.01950	0.77340
1.51999	-10.26758	1.97528	-0.41482	-1.25688	0.62203	-0.00343	2.68268	0.21946	0.01939	0.77855
1.55569	-10.40226	1.98707	-0.41162	-1.25387	0.62955	-0.00345	2.74890	0.21419	0.01929	0.78395
1.59236	-10.53774	1.99896	-0.40831	-1.25088	0.63684	-0.00346	2.81180	0.20931	0.01919	0.78966
1.62973	-10.67345	2.01098	-0.40491	-1.24792	0.64390	-0.00348	2.87042	0.20486	0.01909	0.79565
1.66806	-10.81063	2.02328	-0.40138	-1.24499	0.65079	-0.00349	2.92476	0.20082	0.01897	0.80197
1.70736	-10.94938	2.03592	-0.39773	-1.24209	0.65753	-0.00350	2.97452	0.19718	0.01883	0.80864
1.74764	-11.08970	2.04887	-0.39397	-1.23921	0.66415	-0.00351	3.01920	0.19396	0.01865	0.81569
1.78859	-11.23028	2.06200	-0.39014	-1.23637	0.67059	-0.00353	3.05839	0.19116	0.01845	0.82307
1.83083	-11.37289	2.07543	-0.38621	-1.23351	0.67695	-0.00354	3.09276	0.18871	0.01821	0.83090
1.87371	-11.51491	2.08886	-0.38224	-1.23067	0.68309	-0.00355	3.12183	0.18661	0.01795	0.83904
1.91791	-11.65807	2.10239	-0.37820	-1.22782	0.68912	-0.00356	3.14621	0.18482	0.01766	0.84756
1.96309	-11.80078	2.11584	-0.37412	-1.22498	0.69495	-0.00357	3.16589	0.18334	0.01736	0.85626

2.00924	-11.94264	2.12913	-0.37002	-1.22217	0.70059	-0.00358	3.18136	0.18213	0.01704	0.86501
2.05634	-12.08327	2.14222	-0.36589	-1.21943	0.70605	-0.00359	3.19312	0.18116	0.01672	0.87366
2.10482	-12.22368	2.15522	-0.36172	-1.21676	0.71141	-0.00359	3.20166	0.18042	0.01640	0.88211
2.15424	-12.36254	2.16802	-0.35752	-1.21422	0.71665	-0.00360	3.20736	0.17990	0.01607	0.89009
2.20507	-12.50118	2.18077	-0.35325	-1.21179	0.72183	-0.00361	3.21043	0.17958	0.01574	0.89756
2.25683	-12.63848	2.19340	-0.34896	-1.20950	0.72691	-0.00361	3.21101	0.17946	0.01541	0.90450
2.31000	-12.77584	2.20606	-0.34458	-1.20733	0.73198	-0.00362	3.20952	0.17952	0.01508	0.91107
2.36463	-12.91343	2.21881	-0.34013	-1.20529	0.73705	-0.00362	3.20628	0.17972	0.01473	0.91736
2.42014	-13.04993	2.23156	-0.33563	-1.20341	0.74210	-0.00363	3.20165	0.18007	0.01437	0.92342
2.47709	-13.18669	2.24443	-0.33104	-1.20170	0.74718	-0.00363	3.19594	0.18054	0.01401	0.92947
2.53550	-13.32371	2.25745	-0.32637	-1.20014	0.75231	-0.00363	3.18932	0.18112	0.01362	0.93567
2.59471	-13.45945	2.27050	-0.32167	-1.19878	0.75745	-0.00364	3.18210	0.18181	0.01323	0.94208
2.65604	-13.59664	2.28379	-0.31683	-1.19758	0.76269	-0.00364	3.17468	0.18257	0.01282	0.94888
2.71887	-13.73373	2.29720	-0.31193	-1.19655	0.76798	-0.00364	3.16697	0.18341	0.01241	0.95606
2.78242	-13.86903	2.31053	-0.30703	-1.19570	0.77323	-0.00364	3.15922	0.18430	0.01199	0.96359
2.84819	-14.00524	2.32399	-0.30201	-1.19499	0.77855	-0.00364	3.15169	0.18524	0.01156	0.97170
2.91545	-14.14101	2.33751	-0.29697	-1.19443	0.78388	-0.00364	3.14394	0.18622	0.01114	0.98033
2.98329	-14.27389	2.35069	-0.29193	-1.19402	0.78908	-0.00364	3.13699	0.18719	0.01072	0.98928
3.05344	-14.40755	2.36402	-0.28685	-1.19372	0.79433	-0.00364	3.12979	0.18820	0.01031	0.99853
3.12598	-14.54156	2.37730	-0.28164	-1.19354	0.79956	-0.00364	3.12318	0.18922	0.00990	1.00788
3.19898	-14.67237	2.39026	-0.27655	-1.19345	0.80465	-0.00364	3.11670	0.19022	0.00952	1.01682
3.27439	-14.80351	2.40315	-0.27134	-1.19346	0.80969	-0.00364	3.11065	0.19123	0.00915	1.02532
3.35121	-14.93284	2.41583	-0.26619	-1.19355	0.81464	-0.00364	3.10478	0.19221	0.00880	1.03309
3.43053	-15.06245	2.42842	-0.26092	-1.19370	0.81951	-0.00364	3.09933	0.19319	0.00845	1.04049
3.51124	-15.19012	2.44079	-0.25575	-1.19393	0.82428	-0.00363	3.09394	0.19415	0.00813	1.04763
3.59324	-15.31579	2.45277	-0.25049	-1.19421	0.82887	-0.00363	3.08923	0.19508	0.00781	1.05487
3.67782	-15.44193	2.46492	-0.24535	-1.19456	0.83348	-0.00362	3.08386	0.19603	0.00750	1.06261
3.76506	-15.56711	2.47655	-0.23994	-1.19495	0.83789	-0.00362	3.07994	0.19692	0.00719	1.07130
3.85356	-15.69203	2.48857	-0.23482	-1.19540	0.84234	-0.00361	3.07457	0.19785	0.00689	1.08065
3.94477	-15.81466	2.49971	-0.22940	-1.19588	0.84653	-0.00361	3.07156	0.19868	0.00658	1.09070
4.03714	-15.93791	2.51143	-0.22420	-1.19643	0.85077	-0.00360	3.06688	0.19956	0.00629	1.10095
4.13223	-16.05896	2.52250	-0.21894	-1.19700	0.85485	-0.00359	3.06391	0.20035	0.00600	1.11132
4.23012	-16.18071	2.53354	-0.21346	-1.19763	0.85884	-0.00359	3.06134	0.20114	0.00571	1.12150
4.32900	-16.30195	2.54509	-0.20841	-1.19831	0.86291	-0.00358	3.05751	0.20193	0.00544	1.13090
4.43066	-16.41908	2.55519	-0.20291	-1.19900	0.86662	-0.00357	3.05710	0.20259	0.00517	1.13978
4.53515	-16.54052	2.56655	-0.19760	-1.19978	0.87054	-0.00356	3.05450	0.20333	0.00491	1.14801
4.64253	-16.65994	2.57754	-0.19245	-1.20059	0.87441	-0.00356	3.05304	0.20398	0.00466	1.15565
4.75059	-16.77404	2.58710	-0.18685	-1.20141	0.87785	-0.00355	3.05423	0.20455	0.00439	1.16273
4.86145	-16.89402	2.59859	-0.18173	-1.20232	0.88167	-0.00354	3.05247	0.20520	0.00415	1.16919
4.97760	-17.01153	2.60907	-0.17650	-1.20325	0.88533	-0.00353	3.05317	0.20573	0.00391	1.17536
5.09424	-17.12399	2.61819	-0.17078	-1.20419	0.88858	-0.00352	3.05593	0.20622	0.00365	1.18116
5.21376	-17.24382	2.62975	-0.16569	-1.20524	0.89230	-0.00351	3.05560	0.20677	0.00342	1.18647
5.33618	-17.35776	2.63995	-0.16069	-1.20627	0.89578	-0.00350	3.05756	0.20719	0.00319	1.19155
5.46150	-17.46600	2.64808	-0.15492	-1.20728	0.89875	-0.00349	3.06217	0.20757	0.00292	1.19671
5.58971	-17.58311	2.65898	-0.14969	-1.20844	0.90221	-0.00348	3.06398	0.20802	0.00269	1.20165
5.72082	-17.69892	2.67011	-0.14505	-1.20961	0.90575	-0.00347	3.06618	0.20836	0.00249	1.20653
5.85823	-17.80415	2.67734	-0.13931	-1.21070	0.90853	-0.00346	3.07240	0.20865	0.00221	1.21205
5.99520	-17.91347	2.68619	-0.13375	-1.21189	0.91149	-0.00345	3.07697	0.20900	0.00195	1.21754
6.13497	-18.03127	2.69808	-0.12916	-1.21320	0.91497	-0.00344	3.07986	0.20928	0.00176	1.22285
6.28141	-18.13825	2.70669	-0.12429	-1.21440	0.91793	-0.00343	3.08559	0.20947	0.00154	1.22863
6.42674	-18.23367	2.71215	-0.11857	-1.21551	0.92022	-0.00342	3.09237	0.20975	0.00125	1.23478
6.57895	-18.34344	2.72124	-0.11318	-1.21683	0.92308	-0.00341	3.09771	0.21001	0.00100	1.24099
6.73401	-18.46137	2.73339	-0.10887	-1.21827	0.92642	-0.00339	3.10297	0.21011	0.00083	1.24692
6.89180	-18.55855	2.74007	-0.10420	-1.21944	0.92890	-0.00338	3.10981	0.21024	0.00061	1.25330
7.05716	-18.64823	2.74359	-0.09836	-1.22057	0.93083	-0.00337	3.11661	0.21054	0.00030	1.26036
7.22022	-18.74761	2.75068	-0.09315	-1.22186	0.93321	-0.00336	3.12263	0.21076	0.00005	1.26684
7.39098	-18.86313	2.76223	-0.08878	-1.22336	0.93623	-0.00335	3.12941	0.21078	-0.00012	1.27286
7.56430	-18.96276	2.77020	-0.08482	-1.22464	0.93873	-0.00334	3.13708	0.21076	-0.00029	1.27864
7.73994	-19.03341	2.76994	-0.07955	-1.22558	0.94006	-0.00333	3.14231	0.21113	-0.00060	1.28486
7.92393	-19.11704	2.77264	-0.07417	-1.22676	0.94178	-0.00332	3.14828	0.21143	-0.00091	1.29067
8.11030	-19.21263	2.77890	-0.06927	-1.22809	0.94391	-0.00331	3.15432	0.21161	-0.00115	1.29574
8.29876	-19.32387	2.79004	-0.06536	-1.22958	0.94660	-0.00330	3.16177	0.21154	-0.00128	1.29984
8.49618	-19.40473	2.79320	-0.06148	-1.23066	0.94835	-0.00329	3.16810	0.21164	-0.00149	1.30423
8.69565	-19.45070	2.78713	-0.05661	-1.23142	0.94895	-0.00328	3.17278	0.21205	-0.00184	1.30929
8.90472	-19.51535	2.78552	-0.05175	-1.23247	0.95009	-0.00328	3.17944	0.21227	-0.00216	1.31407
9.11577	-19.58590	2.78582	-0.04716	-1.23359	0.95141	-0.00327	3.18608	0.21242	-0.00244	1.31861
9.32836	-19.68323	2.79318	-0.04287	-1.23496	0.95350	-0.00326	3.19057	0.21259	-0.00264	1.32269
9.54198	-19.76822	2.79839	-0.03955	-1.23612	0.95529	-0.00325	3.19576	0.21266	-0.00279	1.32673
9.76563	-19.78595	2.78690	-0.03649	-1.23656	0.95522	-0.00325	3.20597	0.21253	-0.00308	1.33219
10.00000	-19.79763	2.77367	-0.03328	-1.23702	0.95495	-0.00325	3.22097	0.21210	-0.00340	1.33849

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
High stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 30 - 61 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	2.04972	2.30303	-0.16026	-3.29786	0.98536	0.00009	15.30171	0.22973	0.01211	0.31906
PGV	14.09966	1.76533	-0.18625	-4.46342	0.97760	0.00137	29.26183	0.22011	0.01009	0.35802
PGA	6.12047	1.67660	-0.05687	-3.41241	0.33890	0.00005	9.40182	0.46354	-0.02656	0.75785
0.01000	6.07125	1.68887	-0.05380	-3.39842	0.31233	0.00002	9.42844	0.46857	0.00309	0.66559
0.01024	6.08046	1.68932	-0.05350	-3.39969	0.31148	0.00002	9.43800	0.46870	0.00307	0.66610
0.01048	6.09374	1.68977	-0.05319	-3.40163	0.31074	0.00002	9.45418	0.46875	0.00303	0.66662
0.01072	6.11113	1.69022	-0.05287	-3.40426	0.31011	0.00002	9.47705	0.46871	0.00299	0.66714
0.01097	6.13281	1.69068	-0.05254	-3.40760	0.30957	0.00003	9.50685	0.46859	0.00293	0.66767
0.01123	6.15896	1.69115	-0.05220	-3.41168	0.30912	0.00003	9.54389	0.46839	0.00287	0.66823
0.01150	6.18988	1.69165	-0.05183	-3.41654	0.30874	0.00003	9.58863	0.46810	0.00280	0.66881
0.01177	6.22604	1.69217	-0.05144	-3.42225	0.30844	0.00004	9.64187	0.46773	0.00271	0.66942
0.01205	6.26801	1.69272	-0.05103	-3.42892	0.30821	0.00004	9.70453	0.46726	0.00261	0.67009
0.01233	6.31629	1.69333	-0.05059	-3.43662	0.30805	0.00005	9.77746	0.46670	0.00250	0.67082
0.01262	6.37146	1.69398	-0.05011	-3.44544	0.30794	0.00005	9.86164	0.46603	0.00237	0.67163
0.01292	6.43419	1.69469	-0.04959	-3.45549	0.30790	0.00006	9.95833	0.46524	0.00222	0.67256
0.01322	6.50518	1.69546	-0.04903	-3.46685	0.30791	0.00007	10.06890	0.46434	0.00205	0.67361
0.01353	6.58537	1.69631	-0.04842	-3.47970	0.30800	0.00007	10.19507	0.46331	0.00186	0.67478
0.01385	6.67530	1.69725	-0.04774	-3.49409	0.30816	0.00008	10.33782	0.46216	0.00165	0.67609
0.01417	6.77540	1.69831	-0.04699	-3.51011	0.30840	0.00009	10.49817	0.46088	0.00142	0.67760
0.01451	6.88593	1.69949	-0.04615	-3.52776	0.30869	0.00010	10.67669	0.45948	0.00115	0.67936
0.01485	7.00705	1.70082	-0.04521	-3.54707	0.30894	0.00012	10.87355	0.45799	0.00084	0.68141
0.01520	7.13986	1.70231	-0.04417	-3.56820	0.30908	0.00013	11.09075	0.45640	0.00049	0.68378
0.01556	7.28524	1.70400	-0.04303	-3.59129	0.30908	0.00014	11.33007	0.45472	0.00011	0.68646
0.01592	7.44211	1.70584	-0.04178	-3.61607	0.30894	0.00016	11.59059	0.45296	-0.00030	0.68947
0.01630	7.60808	1.70786	-0.04039	-3.64211	0.30868	0.00017	11.86939	0.45117	-0.00077	0.69289
0.01668	7.77856	1.71010	-0.03886	-3.66864	0.30827	0.00019	12.15853	0.44945	-0.00127	0.69669
0.01707	7.95091	1.71255	-0.03715	-3.69516	0.30758	0.00020	12.45311	0.44786	-0.00181	0.70081
0.01748	8.12496	1.71522	-0.03527	-3.72161	0.30662	0.00021	12.75337	0.44639	-0.00238	0.70526
0.01789	8.30177	1.71822	-0.03323	-3.74827	0.30546	0.00022	13.06055	0.44504	-0.00296	0.70978
0.01831	8.47810	1.72162	-0.03105	-3.77466	0.30394	0.00022	13.36758	0.44389	-0.00351	0.71424
0.01874	8.64302	1.72536	-0.02873	-3.79890	0.30195	0.00023	13.65461	0.44308	-0.00407	0.71884
0.01918	8.78917	1.72936	-0.02621	-3.81972	0.29973	0.00022	13.91024	0.44269	-0.00463	0.72355
0.01963	8.92088	1.73378	-0.02350	-3.83794	0.29751	0.00021	14.14271	0.44261	-0.00515	0.72801
0.02009	9.04495	1.73895	-0.02068	-3.85504	0.29518	0.00020	14.35938	0.44283	-0.00561	0.73215
0.02057	9.15034	1.74483	-0.01782	-3.86930	0.29198	0.00019	14.53420	0.44354	-0.00608	0.73642
0.02105	9.21557	1.75076	-0.01488	-3.87679	0.28746	0.00017	14.62898	0.44497	-0.00657	0.74081
0.02154	9.22715	1.75652	-0.01192	-3.87520	0.28187	0.00014	14.62059	0.44723	-0.00698	0.74460
0.02205	9.17906	1.76281	-0.00894	-3.86425	0.27535	0.00011	14.49157	0.45051	-0.00720	0.74716
0.02257	9.09310	1.76954	-0.00593	-3.84766	0.26871	0.00007	14.28726	0.45441	-0.00730	0.74879
0.02310	8.98080	1.77611	-0.00280	-3.82677	0.26309	0.00003	14.04311	0.45857	-0.00738	0.75024
0.02364	8.83462	1.78286	0.00040	-3.80052	0.25747	-0.00002	13.74016	0.46327	-0.00748	0.75178
0.02420	8.65543	1.79038	0.00358	-3.76964	0.25018	-0.00007	13.36685	0.46878	-0.00747	0.75259
0.02477	8.42800	1.79797	0.00688	-3.73114	0.24103	-0.00012	12.90353	0.47528	-0.00732	0.75248
0.02535	8.14726	1.80465	0.01043	-3.68328	0.23123	-0.00018	12.36237	0.48263	-0.00715	0.75222
0.02595	7.83952	1.81143	0.01423	-3.63093	0.22174	-0.00024	11.79513	0.49050	-0.00700	0.75202
0.02656	7.52280	1.81959	0.01816	-3.57807	0.21211	-0.00031	11.22246	0.49891	-0.00682	0.75172
0.02719	7.18649	1.82874	0.02217	-3.52295	0.20185	-0.00038	10.62302	0.50809	-0.00664	0.75143
0.02783	6.83549	1.83729	0.02616	-3.46537	0.19100	-0.00044	10.01151	0.51778	-0.00646	0.75134
0.02848	6.49950	1.84452	0.02990	-3.40965	0.17886	-0.00049	9.43544	0.52742	-0.00632	0.75164
0.02915	6.17319	1.85177	0.03346	-3.35588	0.16591	-0.00054	8.88485	0.53721	-0.00622	0.75226
0.02984	5.83625	1.86018	0.03711	-3.30170	0.15399	-0.00059	8.33385	0.54751	-0.00609	0.75258
0.03054	5.51255	1.86881	0.04077	-3.25052	0.14422	-0.00064	7.81974	0.55765	-0.00583	0.75211
0.03126	5.22064	1.87714	0.04419	-3.20502	0.13574	-0.00069	7.36221	0.56724	-0.00542	0.75070
0.03199	4.94517	1.88556	0.04735	-3.16278	0.12760	-0.00073	6.93931	0.57666	-0.00487	0.74846
0.03275	4.68975	1.89375	0.05037	-3.12371	0.11988	-0.00076	6.56207	0.58562	-0.00432	0.74616
0.03352	4.48278	1.90236	0.05323	-3.09265	0.11272	-0.00080	6.26338	0.59346	-0.00392	0.74472
0.03430	4.29750	1.91229	0.05608	-3.06613	0.10537	-0.00082	5.99706	0.60108	-0.00354	0.74348
0.03511	4.08202	1.92203	0.05886	-3.03483	0.09669	-0.00085	5.69537	0.60977	-0.00301	0.74140
0.03594	3.84315	1.92919	0.06126	-2.99813	0.08706	-0.00087	5.37336	0.61908	-0.00238	0.73886
0.03678	3.61134	1.93263	0.06315	-2.96005	0.07810	-0.00089	5.07433	0.62782	-0.00180	0.73662
0.03765	3.40209	1.93343	0.06469	-2.92388	0.07104	-0.00091	4.81689	0.63547	-0.00125	0.73450
0.03854	3.21953	1.93411	0.06585	-2.89223	0.06455	-0.00093	4.59436	0.64245	-0.00059	0.73157
0.03944	3.06285	1.93556	0.06645	-2.86574	0.05654	-0.00093	4.39469	0.64922	0.00023	0.72773
0.04037	2.91680	1.93729	0.06668	-2.84132	0.04642	-0.00093	4.20230	0.65620	0.00106	0.72363
0.04132	2.77829	1.93854	0.06682	-2.81790	0.03641	-0.00092	4.02037	0.66306	0.00177	0.71998
0.04229	2.64857	1.93869	0.06708	-2.79531	0.02971	-0.00092	3.85794	0.66917	0.00231	0.71727
0.04329	2.52195	1.93680	0.06738	-2.77173	0.02675	-0.00093	3.71180	0.67450	0.00271	0.71549
0.04431	2.40217	1.93368	0.06765	-2.74824	0.02639	-0.00094	3.58368	0.67910	0.00308	0.71422
0.04535	2.26867	1.93294	0.06847	-2.72395	0.02659	-0.00097	3.45470	0.68410	0.00349	0.71280

0.04642	2.12863	1.93376	0.06933	-2.69982	0.02512	-0.00099	3.32132	0.68964	0.00386	0.71155
0.04751	1.97201	1.93114	0.06918	-2.67088	0.01894	-0.00099	3.16048	0.69639	0.00406	0.71113
0.04863	1.79107	1.92251	0.06763	-2.63384	0.00687	-0.00098	2.96334	0.70479	0.00423	0.71091
0.04977	1.64177	1.91133	0.06502	-2.60029	-0.00636	-0.00095	2.79056	0.71245	0.00464	0.70901
0.05094	1.56050	1.90268	0.06227	-2.57980	-0.01555	-0.00092	2.68511	0.71728	0.00539	0.70466
0.05214	1.52283	1.89778	0.06014	-2.56914	-0.01953	-0.00091	2.63078	0.71973	0.00628	0.69909
0.05337	1.48085	1.89688	0.05916	-2.56062	-0.01904	-0.00091	2.58941	0.72166	0.00702	0.69451
0.05462	1.44017	1.89853	0.05849	-2.55445	-0.01644	-0.00093	2.55452	0.72334	0.00743	0.69232
0.05591	1.36707	1.90168	0.05787	-2.54402	-0.01706	-0.00095	2.49375	0.72674	0.00752	0.69250
0.05722	1.27683	1.90247	0.05649	-2.52870	-0.02300	-0.00095	2.41404	0.73137	0.00729	0.69468
0.05857	1.19211	1.89899	0.05431	-2.51060	-0.03117	-0.00094	2.33701	0.73577	0.00688	0.69811
0.05995	1.13981	1.89246	0.05151	-2.49567	-0.03662	-0.00093	2.28562	0.73830	0.00659	0.70077
0.06136	1.06426	1.88604	0.04912	-2.47752	-0.04088	-0.00092	2.21900	0.74160	0.00684	0.70000
0.06280	0.93395	1.87925	0.04712	-2.45065	-0.04831	-0.00092	2.10865	0.74775	0.00774	0.69495
0.06428	0.76972	1.87073	0.04510	-2.41703	-0.05839	-0.00091	1.97318	0.75585	0.00899	0.68752
0.06579	0.61165	1.86143	0.04291	-2.38353	-0.06599	-0.00091	1.85083	0.76339	0.01024	0.67989
0.06734	0.49109	1.85375	0.04058	-2.35712	-0.06811	-0.00092	1.76631	0.76849	0.01128	0.67357
0.06893	0.44122	1.84753	0.03761	-2.34347	-0.06502	-0.00093	1.73445	0.76961	0.01185	0.67070
0.07055	0.43909	1.84171	0.03413	-2.33792	-0.05935	-0.00094	1.73544	0.76815	0.01170	0.67277
0.07221	0.46113	1.83557	0.03018	-2.33613	-0.05384	-0.00095	1.74867	0.76579	0.01109	0.67804
0.07391	0.47942	1.82982	0.02601	-2.33422	-0.05134	-0.00095	1.75342	0.76437	0.01052	0.68287
0.07565	0.46054	1.82415	0.02206	-2.32646	-0.05371	-0.00093	1.72925	0.76541	0.01027	0.68530
0.07743	0.39353	1.81745	0.01864	-2.30996	-0.06001	-0.00092	1.67411	0.76894	0.01031	0.68545
0.07925	0.30740	1.80893	0.01550	-2.28890	-0.06690	-0.00091	1.61007	0.77305	0.01053	0.68416
0.08111	0.20108	1.80107	0.01314	-2.26467	-0.07252	-0.00091	1.54206	0.77762	0.01079	0.68244
0.08302	0.10771	1.79471	0.01098	-2.24375	-0.07603	-0.00091	1.48561	0.78142	0.01110	0.68036
0.08498	0.00958	1.79154	0.00922	-2.22460	-0.07808	-0.00093	1.42901	0.78574	0.01156	0.67703
0.08697	-0.06890	1.78969	0.00720	-2.21036	-0.07686	-0.00094	1.38310	0.78912	0.01215	0.67266
0.08902	-0.13786	1.78915	0.00506	-2.19914	-0.07241	-0.00096	1.34434	0.79186	0.01280	0.66796
0.09112	-0.17283	1.78999	0.00228	-2.19517	-0.06561	-0.00097	1.32517	0.79269	0.01354	0.66292
0.09326	-0.16467	1.79219	-0.00112	-2.20003	-0.05827	-0.00098	1.32974	0.79122	0.01430	0.65824
0.09545	-0.14446	1.79494	-0.00444	-2.20755	-0.05246	-0.00098	1.34209	0.78906	0.01480	0.65597
0.09770	-0.16313	1.79610	-0.00727	-2.20698	-0.05122	-0.00097	1.33311	0.78910	0.01491	0.65711
0.10000	-0.23914	1.79380	-0.00992	-2.19346	-0.05595	-0.00096	1.29033	0.79257	0.01483	0.66034
0.10235	-0.33298	1.78662	-0.01338	-2.17279	-0.06365	-0.00095	1.23410	0.79720	0.01483	0.66358
0.10476	-0.43597	1.77669	-0.01738	-2.14806	-0.07114	-0.00093	1.17410	0.80214	0.01504	0.66543
0.10723	-0.50385	1.76578	-0.02211	-2.12882	-0.07434	-0.00093	1.13330	0.80465	0.01551	0.66508
0.10975	-0.52806	1.75681	-0.02696	-2.11914	-0.07077	-0.00093	1.11824	0.80387	0.01618	0.66258
0.11233	-0.53105	1.75046	-0.03142	-2.11569	-0.06236	-0.00094	1.11749	0.80132	0.01697	0.65842
0.11498	-0.54946	1.74505	-0.03546	-2.11043	-0.05544	-0.00095	1.10917	0.79988	0.01783	0.65295
0.11768	-0.60432	1.73859	-0.03931	-2.09773	-0.05548	-0.00094	1.08003	0.80132	0.01872	0.64705
0.12045	-0.69290	1.73021	-0.04316	-2.07700	-0.06392	-0.00093	1.03255	0.80551	0.01947	0.64196
0.12328	-0.79936	1.72028	-0.04715	-2.05115	-0.07785	-0.00091	0.97822	0.81109	0.01999	0.63863
0.12619	-0.90626	1.71013	-0.05123	-2.02437	-0.09201	-0.00089	0.92907	0.81633	0.02021	0.63754
0.12916	-0.99962	1.70087	-0.05524	-2.00027	-0.10164	-0.00089	0.89289	0.81983	0.02015	0.63876
0.13219	-1.07156	1.69372	-0.05904	-1.98165	-0.10379	-0.00090	0.87262	0.82089	0.01991	0.64157
0.13531	-1.11306	1.68970	-0.06274	-1.97135	-0.09789	-0.00093	0.87009	0.81914	0.01959	0.64527
0.13849	-1.11903	1.68878	-0.06653	-1.97045	-0.08517	-0.00096	0.88586	0.81456	0.01923	0.64929
0.14175	-1.08876	1.68989	-0.07058	-1.97817	-0.06704	-0.00100	0.91994	0.80722	0.01880	0.65359
0.14508	-1.02916	1.69172	-0.07493	-1.99205	-0.04527	-0.00104	0.96939	0.79780	0.01828	0.65819
0.14850	-0.96126	1.69311	-0.07949	-2.00727	-0.02283	-0.00108	1.02396	0.78799	0.01780	0.66235
0.15199	-0.92358	1.69310	-0.08398	-2.01616	-0.00341	-0.00111	1.06284	0.78049	0.01743	0.66564
0.15557	-0.95278	1.69131	-0.08812	-2.01190	0.00971	-0.00114	1.06527	0.77768	0.01722	0.66781
0.15923	-1.06105	1.68816	-0.09182	-1.99272	0.01438	-0.00117	1.02418	0.78056	0.01727	0.66821
0.16298	-1.24065	1.68436	-0.09515	-1.96053	0.01021	-0.00118	0.94623	0.78899	0.01770	0.66612
0.16681	-1.45368	1.67934	-0.09868	-1.92152	-0.00112	-0.00119	0.85291	0.80078	0.01850	0.66159
0.17074	-1.67002	1.67226	-0.10271	-1.88015	-0.01715	-0.00118	0.76050	0.81388	0.01943	0.65616
0.17475	-1.87951	1.66319	-0.10703	-1.83813	-0.03531	-0.00116	0.67484	0.82739	0.02015	0.65202
0.17887	-2.06214	1.65271	-0.11167	-1.79971	-0.05119	-0.00113	0.60399	0.83933	0.02045	0.65057
0.18307	-2.21023	1.64245	-0.11645	-1.76776	-0.06099	-0.00112	0.55048	0.84842	0.02034	0.65191
0.18738	-2.32477	1.63354	-0.12123	-1.74307	-0.06335	-0.00112	0.51298	0.85424	0.01989	0.65545
0.19179	-2.39805	1.62624	-0.12619	-1.72734	-0.05821	-0.00113	0.49241	0.85586	0.01923	0.66040
0.19631	-2.43012	1.62116	-0.13134	-1.72112	-0.04609	-0.00115	0.48836	0.85303	0.01853	0.66566
0.20092	-2.43059	1.61880	-0.13659	-1.72306	-0.02826	-0.00118	0.49828	0.84656	0.01804	0.66955
0.20565	-2.39944	1.61879	-0.14213	-1.73274	-0.00587	-0.00122	0.52272	0.83657	0.01792	0.67119
0.21049	-2.33801	1.62049	-0.14801	-1.74924	0.01978	-0.00126	0.56207	0.82353	0.01793	0.67213
0.21544	-2.24978	1.62274	-0.15428	-1.77078	0.04636	-0.00129	0.61556	0.80827	0.01763	0.67541
0.22051	-2.14379	1.62451	-0.16096	-1.79480	0.07126	-0.00132	0.68001	0.79208	0.01682	0.68234
0.22570	-2.03615	1.62511	-0.16799	-1.81783	0.09258	-0.00134	0.74905	0.77637	0.01571	0.69156
0.23101	-1.95140	1.62459	-0.17499	-1.83545	0.10996	-0.00135	0.81249	0.76273	0.01461	0.70076
0.23645	-1.91308	1.62332	-0.18152	-1.84375	0.12438	-0.00138	0.85904	0.75239	0.01381	0.70799
0.24201	-1.93654	1.62170	-0.18735	-1.84040	0.13581	-0.00142	0.87865	0.74632	0.01351	0.71176
0.24771	-2.01997	1.62000	-0.19253	-1.82613	0.14356	-0.00147	0.86924	0.74459	0.01370	0.71210
0.25354	-2.14680	1.61843	-0.19724	-1.80426	0.14759	-0.00153	0.83759	0.74634	0.01416	0.71048
0.25950	-2.29656	1.61743	-0.20172	-1.77899	0.14858	-0.00158	0.79404	0.75032	0.01469	0.70841
0.26561	-2.45251	1.61762	-0.20620	-1.75404	0.14747	-0.00161	0.74722	0.75546	0.01518	0.70658
0.27186	-2.60721	1.61944	-0.21070	-1.73117	0.14460	-0.00164	0.70114	0.76123	0.01561	0.70506
0.27826	-2.75919	1.62270	-0.21528	-1.71049	0.13982	-0.00166	0.65644	0.76752	0.01605	0.70347
0.28480	-2.90801	1.62692	-0.21996	-1.69155	0.13322	-0.00167	0.61355	0.77420	0.01656	0.70139
0.29150	-3.05472	1.63138	-0.22471	-1.67336	0.12551	-0.00168	0.57263	0.78108	0.01709	0.69908
0.29836	-3.19978	1.63520	-0.22952	-1.65490	0.11806	-0.00169	0.53415	0.78784	0.01747	0.69764

0.30539	-3.34061	1.63794	-0.23441	-1.63619	0.11245	-0.00170	0.49955	0.79390	0.01760	0.69779
0.31257	-3.47409	1.63959	-0.23946	-1.61788	0.10978	-0.00172	0.47004	0.79873	0.01753	0.69912
0.31993	-3.59807	1.64055	-0.24476	-1.60084	0.11035	-0.00175	0.44619	0.80200	0.01740	0.70070
0.32745	-3.70938	1.64134	-0.25034	-1.58609	0.11401	-0.00178	0.42881	0.80338	0.01730	0.70202
0.33517	-3.80552	1.64208	-0.25630	-1.57412	0.12024	-0.00180	0.41852	0.80257	0.01719	0.70340
0.34304	-3.88229	1.64281	-0.26268	-1.56557	0.12864	-0.00183	0.41648	0.79914	0.01701	0.70541
0.35112	-3.93704	1.64350	-0.26952	-1.56086	0.13887	-0.00185	0.42358	0.79283	0.01666	0.70881
0.35938	-3.96890	1.64408	-0.27667	-1.56014	0.15073	-0.00187	0.44007	0.78376	0.01606	0.71411
0.36784	-3.98210	1.64468	-0.28396	-1.56277	0.16429	-0.00189	0.46515	0.77249	0.01516	0.72158
0.37649	-3.98199	1.64541	-0.29115	-1.56785	0.17986	-0.00191	0.49752	0.75977	0.01397	0.73113
0.38536	-3.97246	1.64622	-0.29817	-1.57463	0.19777	-0.00193	0.53616	0.74617	0.01253	0.74242
0.39442	-3.95561	1.64720	-0.30497	-1.58280	0.21777	-0.00195	0.58068	0.73207	0.01098	0.75446
0.40370	-3.93258	1.64863	-0.31156	-1.59243	0.23960	-0.00197	0.63128	0.71767	0.00954	0.76589
0.41321	-3.90208	1.65067	-0.31799	-1.60398	0.26299	-0.00200	0.68893	0.70303	0.00834	0.77573
0.42292	-3.86313	1.65340	-0.32423	-1.61776	0.28776	-0.00202	0.75451	0.68825	0.00746	0.78353
0.43288	-3.81821	1.65685	-0.33027	-1.63329	0.31290	-0.00204	0.82739	0.67361	0.00690	0.78926
0.44307	-3.77178	1.66087	-0.33604	-1.64949	0.33661	-0.00205	0.90488	0.65968	0.00661	0.79332
0.45349	-3.72702	1.66524	-0.34150	-1.66553	0.35805	-0.00206	0.98481	0.64675	0.00648	0.79646
0.46417	-3.68884	1.66975	-0.34654	-1.68025	0.37670	-0.00206	1.06371	0.63508	0.00643	0.79934
0.47508	-3.66178	1.67426	-0.35113	-1.69261	0.39241	-0.00205	1.13780	0.62486	0.00638	0.80237
0.48626	-3.64901	1.67860	-0.35528	-1.70191	0.40526	-0.00205	1.20329	0.61625	0.00629	0.80579
0.49771	-3.65225	1.68276	-0.35903	-1.70789	0.41561	-0.00204	1.25713	0.60932	0.00616	0.80957
0.50942	-3.67111	1.68694	-0.36238	-1.71086	0.42384	-0.00204	1.29855	0.60394	0.00602	0.81350
0.52140	-3.70210	1.69141	-0.36536	-1.71187	0.43061	-0.00203	1.32967	0.59975	0.00590	0.81720
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0.61357	-4.36999	1.72117	-0.37979	-1.63643	0.41774	-0.00206	1.15601	0.60771	0.00772	0.82189
0.62802	-4.55194	1.72272	-0.38160	-1.60675	0.40326	-0.00208	1.06842	0.61539	0.00788	0.82334
0.64280	-4.74954	1.72358	-0.38358	-1.57362	0.38445	-0.00209	0.97410	0.62443	0.00802	0.82514
0.65794	-4.96211	1.72386	-0.38580	-1.53735	0.36128	-0.00209	0.87531	0.63488	0.00820	0.82694
0.67340	-5.18823	1.72370	-0.38820	-1.49830	0.33440	-0.00209	0.77467	0.64685	0.00847	0.82865
0.68927	-5.42256	1.72353	-0.39080	-1.45803	0.30494	-0.00209	0.67698	0.66008	0.00882	0.83044
0.70547	-5.65215	1.72403	-0.39360	-1.41986	0.27561	-0.00208	0.59008	0.67340	0.00924	0.83229
0.72207	-5.87230	1.72588	-0.39659	-1.38567	0.24748	-0.00206	0.51627	0.68604	0.00973	0.83390
0.73910	-6.08124	1.72960	-0.39978	-1.35637	0.22185	-0.00205	0.45563	0.69741	0.01028	0.83487
0.75649	-6.27859	1.73516	-0.40314	-1.33198	0.20031	-0.00204	0.40707	0.70703	0.01090	0.83477
0.77429	-6.46709	1.74232	-0.40667	-1.31169	0.18302	-0.00203	0.36809	0.71492	0.01159	0.83328
0.79246	-6.64808	1.75064	-0.41036	-1.29464	0.16996	-0.00204	0.33680	0.72113	0.01236	0.83006
0.81116	-6.82430	1.75979	-0.41422	-1.28005	0.16046	-0.00205	0.31165	0.72560	0.01327	0.82486
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0.84976	-7.15860	1.77954	-0.42212	-1.25750	0.15107	-0.00210	0.27820	0.72820	0.01545	0.80926
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0.91116	-7.61391	1.80859	-0.43376	-1.23541	0.15331	-0.00217	0.26298	0.71405	0.01847	0.78586
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0.95456	-7.90226	1.82508	-0.44114	-1.22185	0.15718	-0.00222	0.26506	0.69683	0.01995	0.77608
0.97704	-8.04301	1.83268	-0.44462	-1.21535	0.15938	-0.00223	0.26918	0.68633	0.02066	0.77215
1.00000	-8.18084	1.84022	-0.44791	-1.20948	0.16232	-0.00225	0.27598	0.67445	0.02138	0.76840
1.02354	-8.31600	1.84806	-0.45095	-1.20461	0.16674	-0.00227	0.28611	0.66107	0.02214	0.76462
1.04767	-8.44734	1.85635	-0.45371	-1.20112	0.17357	-0.00229	0.30042	0.64602	0.02290	0.76085
1.07227	-8.57329	1.86493	-0.45615	-1.19913	0.18280	-0.00231	0.31955	0.62939	0.02361	0.75740
1.09745	-8.69364	1.87365	-0.45824	-1.19857	0.19420	-0.00234	0.34423	0.61122	0.02422	0.75457
1.12334	-8.80932	1.88235	-0.45998	-1.19908	0.20759	-0.00237	0.37488	0.59175	0.02472	0.75259
1.14982	-8.92081	1.89090	-0.46132	-1.20032	0.22287	-0.00240	0.41153	0.57142	0.02511	0.75148
1.17675	-9.02717	1.89923	-0.46228	-1.20230	0.23966	-0.00244	0.45495	0.55045	0.02539	0.75112
1.20453	-9.12920	1.90752	-0.46291	-1.20526	0.25807	-0.00248	0.50757	0.52849	0.02560	0.75133
1.23289	-9.22627	1.91583	-0.46320	-1.20923	0.27740	-0.00251	0.57051	0.50589	0.02575	0.75175
1.26183	-9.31946	1.92435	-0.46310	-1.21415	0.29733	-0.00255	0.64493	0.48292	0.02590	0.75209
1.29149	-9.41041	1.93324	-0.46260	-1.21994	0.31795	-0.00258	0.73213	0.45977	0.02605	0.75223
1.32188	-9.49971	1.94253	-0.46172	-1.22647	0.33949	-0.00262	0.83303	0.43671	0.02622	0.75220
1.35300	-9.58834	1.95214	-0.46046	-1.23346	0.36158	-0.00265	0.94767	0.41406	0.02639	0.75217
1.38485	-9.67729	1.96196	-0.45882	-1.24058	0.38363	-0.00269	1.07526	0.39212	0.02656	0.75238
1.41743	-9.76773	1.97187	-0.45684	-1.24739	0.40513	-0.00272	1.21383	0.37117	0.02671	0.75313
1.45075	-9.85983	1.98172	-0.45452	-1.25374	0.42593	-0.00275	1.36196	0.35130	0.02680	0.75463
1.48500	-9.95371	1.99150	-0.45188	-1.25968	0.44615	-0.00278	1.52023	0.33237	0.02682	0.75698
1.51999	-10.04948	2.00115	-0.44894	-1.26503	0.46555	-0.00280	1.68577	0.31456	0.02679	0.76006
1.55569	-10.14761	2.01075	-0.44572	-1.26975	0.48422	-0.00283	1.85678	0.29787	0.02672	0.76375
1.59236	-10.24909	2.02046	-0.44220	-1.27390	0.50230	-0.00286	2.03262	0.28219	0.02662	0.76800
1.62973	-10.35367	2.03029	-0.43843	-1.27742	0.51959	-0.00288	2.20983	0.26764	0.02646	0.77282
1.66806	-10.46258	2.04037	-0.43443	-1.28027	0.53609	-0.00291	2.38682	0.25413	0.02625	0.77826
1.70736	-10.57599	2.05077	-0.43021	-1.28246	0.55176	-0.00293	2.56128	0.24166	0.02598	0.78433
1.74764	-10.69372	2.06152	-0.42581	-1.28404	0.56663	-0.00296	2.73148	0.23019	0.02565	0.79099
1.78859	-10.81454	2.07251	-0.42128	-1.28504	0.58058	-0.00298	2.89462	0.21975	0.02529	0.79813
1.83083	-10.93976	2.08386	-0.41659	-1.28552	0.59389	-0.00300	3.05199	0.21014	0.02490	0.80580
1.87371	-11.06681	2.09533	-0.41183	-1.28553	0.60638	-0.00302	3.20017	0.20146	0.02450	0.81381
1.91791	-11.19690	2.10701	-0.40696	-1.28516	0.61827	-0.00304	3.34109	0.19353	0.02409	0.82219
1.96309	-11.32831	2.11872	-0.40202	-1.28447	0.62947	-0.00306	3.47336	0.18636	0.02367	0.83076

2.00924	-11.46036	2.13039	-0.39703	-1.28351	0.64003	-0.00307	3.59718	0.17988	0.02326	0.83934
2.05634	-11.59247	2.14198	-0.39201	-1.28238	0.65000	-0.00309	3.71276	0.17404	0.02287	0.84778
2.10482	-11.72555	2.15356	-0.38693	-1.28108	0.65948	-0.00311	3.82097	0.16875	0.02249	0.85594
2.15424	-11.85819	2.16503	-0.38183	-1.27966	0.66845	-0.00312	3.92075	0.16403	0.02214	0.86357
2.20507	-11.99151	2.17653	-0.37668	-1.27817	0.67704	-0.00313	4.01307	0.15980	0.02182	0.87057
2.25683	-12.12428	2.18798	-0.37152	-1.27665	0.68520	-0.00315	4.09690	0.15610	0.02152	0.87695
2.31000	-12.25779	2.19951	-0.36630	-1.27510	0.69306	-0.00316	4.17303	0.15285	0.02124	0.88289
2.36463	-12.39216	2.21120	-0.36102	-1.27354	0.70067	-0.00317	4.24142	0.15004	0.02096	0.88850
2.42014	-12.52615	2.22294	-0.35573	-1.27200	0.70797	-0.00318	4.30105	0.14768	0.02068	0.89389
2.47709	-12.66107	2.23485	-0.35038	-1.27046	0.71504	-0.00319	4.35280	0.14574	0.02038	0.89928
2.53550	-12.79700	2.24695	-0.34497	-1.26891	0.72190	-0.00320	4.39651	0.14417	0.02006	0.90486
2.59471	-12.93263	2.25913	-0.33958	-1.26735	0.72845	-0.00320	4.43110	0.14301	0.01972	0.91072
2.65604	-13.07074	2.27157	-0.33407	-1.26571	0.73480	-0.00321	4.45768	0.14220	0.01935	0.91705
2.71887	-13.20989	2.28417	-0.32854	-1.26398	0.74088	-0.00322	4.47556	0.14172	0.01896	0.92385
2.78242	-13.34832	2.29672	-0.32304	-1.26218	0.74660	-0.00322	4.48487	0.14156	0.01853	0.93110
2.84819	-13.48843	2.30941	-0.31747	-1.26033	0.75215	-0.00323	4.48723	0.14169	0.01808	0.93907
2.91545	-13.62909	2.32220	-0.31192	-1.25841	0.75744	-0.00323	4.48174	0.14211	0.01760	0.94770
2.98329	-13.76727	2.33466	-0.30643	-1.25650	0.76240	-0.00324	4.47099	0.14274	0.01710	0.95675
3.05344	-13.90680	2.34731	-0.30093	-1.25458	0.76724	-0.00324	4.45441	0.14361	0.01660	0.96621
3.12598	-14.04699	2.35989	-0.29536	-1.25266	0.77190	-0.00324	4.43361	0.14466	0.01608	0.97587
3.19898	-14.18412	2.37223	-0.28994	-1.25082	0.77633	-0.00324	4.40941	0.14586	0.01558	0.98516
3.27439	-14.32167	2.38449	-0.28445	-1.24900	0.78059	-0.00324	4.38195	0.14721	0.01508	0.99405
3.35121	-14.45744	2.39658	-0.27907	-1.24727	0.78470	-0.00324	4.35193	0.14868	0.01460	1.00225
3.43053	-14.59351	2.40858	-0.27362	-1.24555	0.78864	-0.00324	4.31916	0.15029	0.01413	1.01010
3.51124	-14.72763	2.42042	-0.26829	-1.24394	0.79244	-0.00324	4.28447	0.15200	0.01367	1.01772
3.59324	-14.85947	2.43185	-0.26294	-1.24237	0.79599	-0.00324	4.24883	0.15377	0.01322	1.02547
3.67782	-14.99201	2.44353	-0.25770	-1.24089	0.79955	-0.00324	4.21071	0.15566	0.01276	1.03378
3.76506	-15.12304	2.45463	-0.25229	-1.23944	0.80285	-0.00324	4.17285	0.15760	0.01230	1.04307
3.85356	-15.25422	2.46625	-0.24711	-1.23814	0.80620	-0.00323	4.13237	0.15963	0.01185	1.05305
3.94477	-15.38221	2.47689	-0.24175	-1.23686	0.80926	-0.00323	4.09458	0.16162	0.01138	1.06376
4.03714	-15.51130	2.48822	-0.23656	-1.23571	0.81240	-0.00323	4.05421	0.16370	0.01094	1.07466
4.13223	-15.63757	2.49889	-0.23136	-1.23464	0.81540	-0.00322	4.01666	0.16570	0.01050	1.08568
4.23012	-15.76422	2.50947	-0.22599	-1.23362	0.81828	-0.00322	3.97876	0.16775	0.01006	1.09653
4.32900	-15.89096	2.52073	-0.22097	-1.23277	0.82134	-0.00321	3.94012	0.16981	0.00965	1.10656
4.43066	-16.01197	2.53034	-0.21566	-1.23192	0.82401	-0.00321	3.90708	0.17170	0.00924	1.11606
4.53515	-16.13831	2.54138	-0.21045	-1.23121	0.82693	-0.00320	3.87048	0.17372	0.00884	1.12491
4.64253	-16.26231	2.55207	-0.20539	-1.23062	0.82988	-0.00319	3.83697	0.17561	0.00847	1.13312
4.75059	-16.37931	2.56112	-0.20006	-1.23002	0.83238	-0.00319	3.80839	0.17736	0.00808	1.14076
4.86145	-16.50399	2.57238	-0.19500	-1.22963	0.83536	-0.00318	3.77518	0.17925	0.00772	1.14779
4.97760	-16.62523	2.58252	-0.18992	-1.22928	0.83820	-0.00317	3.74693	0.18095	0.00736	1.15450
5.09424	-16.73965	2.59111	-0.18454	-1.22894	0.84062	-0.00317	3.72302	0.18253	0.00698	1.16082
5.21376	-16.86380	2.60249	-0.17949	-1.22884	0.84363	-0.00316	3.69397	0.18427	0.00664	1.16666
5.33618	-16.98098	2.61243	-0.17463	-1.22881	0.84648	-0.00315	3.67067	0.18576	0.00632	1.17222
5.46150	-17.08988	2.61997	-0.16927	-1.22869	0.84874	-0.00314	3.65286	0.18710	0.00595	1.17786
5.58971	-17.21025	2.63065	-0.16416	-1.22882	0.85160	-0.00313	3.62945	0.18863	0.00561	1.18329
5.72082	-17.33004	2.64172	-0.15951	-1.22911	0.85469	-0.00312	3.60786	0.19002	0.00531	1.18864
5.85823	-17.43497	2.64831	-0.15425	-1.22919	0.85684	-0.00312	3.59532	0.19113	0.00495	1.19460
5.99520	-17.54527	2.65672	-0.14902	-1.22943	0.85923	-0.00311	3.57958	0.19237	0.00460	1.20054
6.13497	-17.66734	2.66866	-0.14433	-1.22998	0.86240	-0.00310	3.55973	0.19369	0.00431	1.20633
6.28141	-17.77576	2.67698	-0.13967	-1.23040	0.86497	-0.00309	3.54772	0.19469	0.00401	1.21252
6.42674	-17.86914	2.68168	-0.13456	-1.23063	0.86666	-0.00308	3.54075	0.19556	0.00365	1.21903
6.57895	-17.97988	2.69042	-0.12945	-1.23117	0.86910	-0.00307	3.52819	0.19664	0.00332	1.22567
6.73401	-18.10229	2.70276	-0.12495	-1.23203	0.87233	-0.00306	3.51287	0.19773	0.00306	1.23207
6.89180	-18.19940	2.70905	-0.12060	-1.23256	0.87446	-0.00305	3.50679	0.19846	0.00278	1.23878
7.05716	-18.28515	2.71164	-0.11555	-1.23287	0.87578	-0.00304	3.50441	0.19914	0.00242	1.24610
7.22022	-18.38393	2.71827	-0.11073	-1.23350	0.87778	-0.00303	3.49743	0.19996	0.00211	1.25292
7.39098	-18.50305	2.72996	-0.10622	-1.23453	0.88077	-0.00302	3.48636	0.20086	0.00186	1.25935
7.56430	-18.60418	2.73785	-0.10233	-1.23536	0.88318	-0.00301	3.48126	0.20147	0.00164	1.26544
7.73994	-18.66872	2.73645	-0.09806	-1.23556	0.88379	-0.00300	3.48402	0.20187	0.00131	1.27175
7.92393	-18.74820	2.73826	-0.09346	-1.23606	0.88495	-0.00299	3.48377	0.20240	0.00099	1.27772
8.11030	-18.84271	2.74409	-0.08896	-1.23684	0.88678	-0.00298	3.47984	0.20304	0.00071	1.28301
8.29876	-18.95748	2.75546	-0.08485	-1.23803	0.88958	-0.00297	3.47215	0.20375	0.00051	1.28745
8.49618	-19.03639	2.75814	-0.08142	-1.23865	0.89101	-0.00296	3.47291	0.20410	0.00029	1.29196
8.69565	-19.07277	2.75052	-0.07798	-1.23863	0.89069	-0.00295	3.48228	0.20415	-0.00003	1.29689
8.90472	-19.13087	2.74780	-0.07418	-1.23904	0.89119	-0.00295	3.48827	0.20433	-0.00033	1.30166
9.11577	-19.19647	2.74723	-0.07044	-1.23961	0.89204	-0.00294	3.49242	0.20456	-0.00061	1.30622
9.32836	-19.29403	2.75440	-0.06633	-1.24061	0.89396	-0.00293	3.48774	0.20517	-0.00083	1.31047
9.54198	-19.37905	2.75945	-0.06318	-1.24146	0.89563	-0.00292	3.48614	0.20556	-0.00101	1.31463
9.76563	-19.38569	2.74641	-0.06171	-1.24135	0.89486	-0.00291	3.50558	0.20495	-0.00124	1.31986
10.00000	-19.38470	2.73150	-0.06032	-1.24130	0.89400	-0.00291	3.53065	0.20404	-0.00149	1.32590

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
High stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 61 - 152 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	4.94169	2.37279	-0.22256	-3.87713	1.20517	0.00054	20.52686	0.21158	0.01335	0.31094
PGV	15.40870	1.93528	-0.18995	-4.86055	1.05147	0.00177	30.86045	0.22689	-0.00370	0.42492
PGA	7.01097	1.75309	-0.05866	-3.65797	0.31462	0.00047	10.52768	0.45862	-0.02773	0.78021
0.01000	6.82669	1.76700	-0.05572	-3.62126	0.28003	0.00043	10.34626	0.46669	-0.01661	0.75857
0.01024	6.81843	1.76754	-0.05539	-3.61951	0.27815	0.00043	10.32649	0.46723	-0.01664	0.75909
0.01048	6.81535	1.76805	-0.05507	-3.61862	0.27647	0.00043	10.31534	0.46766	-0.01668	0.75961
0.01072	6.81720	1.76853	-0.05475	-3.61855	0.27496	0.00043	10.31233	0.46798	-0.01672	0.76012
0.01097	6.82391	1.76899	-0.05443	-3.61929	0.27360	0.00043	10.31727	0.46820	-0.01678	0.76062
0.01123	6.83544	1.76943	-0.05410	-3.62083	0.27236	0.00043	10.33008	0.46833	-0.01684	0.76114
0.01150	6.85196	1.76986	-0.05378	-3.62318	0.27123	0.00043	10.35098	0.46837	-0.01691	0.76167
0.01177	6.87368	1.77029	-0.05344	-3.62639	0.27019	0.00043	10.38023	0.46832	-0.01699	0.76223
0.01205	6.90083	1.77073	-0.05310	-3.63048	0.26923	0.00044	10.41823	0.46817	-0.01709	0.76281
0.01233	6.93384	1.77117	-0.05274	-3.63552	0.26834	0.00044	10.46568	0.46792	-0.01719	0.76345
0.01262	6.97323	1.77162	-0.05237	-3.64160	0.26751	0.00045	10.52346	0.46758	-0.01731	0.76414
0.01292	7.01932	1.77209	-0.05197	-3.64875	0.26673	0.00045	10.59213	0.46713	-0.01745	0.76490
0.01322	7.07254	1.77258	-0.05154	-3.65703	0.26599	0.00046	10.67248	0.46658	-0.01760	0.76575
0.01353	7.13444	1.77310	-0.05109	-3.66671	0.26530	0.00047	10.76710	0.46589	-0.01777	0.76672
0.01385	7.20583	1.77366	-0.05061	-3.67790	0.26466	0.00047	10.87747	0.46508	-0.01797	0.76784
0.01417	7.28778	1.77426	-0.05008	-3.69077	0.26408	0.00048	11.00559	0.46412	-0.01819	0.76915
0.01451	7.38159	1.77491	-0.04951	-3.70551	0.26354	0.00050	11.15390	0.46300	-0.01845	0.77070
0.01485	7.48791	1.77561	-0.04888	-3.72220	0.26301	0.00051	11.32381	0.46172	-0.01873	0.77250
0.01520	7.60677	1.77641	-0.04818	-3.74083	0.26250	0.00052	11.51573	0.46029	-0.01906	0.77457
0.01556	7.73896	1.77733	-0.04741	-3.76156	0.26207	0.00054	11.73127	0.45872	-0.01941	0.77692
0.01592	7.88619	1.77839	-0.04656	-3.78464	0.26170	0.00055	11.97364	0.45700	-0.01980	0.77961
0.01630	8.04916	1.77955	-0.04561	-3.81014	0.26130	0.00057	12.24485	0.45511	-0.02024	0.78267
0.01668	8.22722	1.78083	-0.04458	-3.83790	0.26084	0.00059	12.54468	0.45309	-0.02072	0.78613
0.01707	8.41548	1.78219	-0.04344	-3.86704	0.26018	0.00061	12.86535	0.45103	-0.02125	0.78997
0.01748	8.60964	1.78358	-0.04218	-3.89678	0.25915	0.00062	13.19981	0.44901	-0.02181	0.79406
0.01789	8.80997	1.78495	-0.04079	-3.92714	0.25777	0.00064	13.54902	0.44700	-0.02241	0.79844
0.01831	9.01268	1.78632	-0.03924	-3.95745	0.25620	0.00066	13.90742	0.44507	-0.02307	0.80331
0.01874	9.20847	1.78773	-0.03752	-3.98618	0.25452	0.00067	14.25898	0.44334	-0.02380	0.80861
0.01918	9.39234	1.78940	-0.03568	-4.01267	0.25261	0.00068	14.59219	0.44192	-0.02453	0.81396
0.01963	9.56446	1.79157	-0.03378	-4.03715	0.25005	0.00069	14.90238	0.44087	-0.02524	0.81919
0.02009	9.71826	1.79418	-0.03186	-4.05860	0.24648	0.00069	15.17362	0.44029	-0.02592	0.82431
0.02057	9.84816	1.79708	-0.02985	-4.07602	0.24221	0.00069	15.39613	0.44020	-0.02655	0.82915
0.02105	9.95535	1.80027	-0.02771	-4.08968	0.23774	0.00069	15.57287	0.44055	-0.02714	0.83368
0.02154	10.04798	1.80384	-0.02543	-4.10109	0.23320	0.00068	15.71827	0.44119	-0.02772	0.83814
0.02205	10.11991	1.80777	-0.02310	-4.10927	0.22817	0.00067	15.81929	0.44224	-0.02827	0.84246
0.02257	10.16679	1.81183	-0.02076	-4.11333	0.22264	0.00065	15.87004	0.44370	-0.02877	0.84642
0.02310	10.18776	1.81610	-0.01845	-4.11317	0.21680	0.00064	15.86916	0.44557	-0.02916	0.84964
0.02364	10.16814	1.82093	-0.01611	-4.10668	0.21090	0.00061	15.78577	0.44812	-0.02942	0.85204
0.02420	10.08748	1.82617	-0.01363	-4.09058	0.20525	0.00058	15.58384	0.45156	-0.02956	0.85369
0.02477	9.94594	1.83112	-0.01098	-4.06451	0.19981	0.00053	15.27382	0.45577	-0.02957	0.85446
0.02535	9.75538	1.83527	-0.00825	-4.02997	0.19408	0.00048	14.88630	0.46052	-0.02954	0.85488
0.02595	9.53787	1.83922	-0.00552	-3.99089	0.18753	0.00043	14.45710	0.46570	-0.02951	0.85528
0.02656	9.30680	1.84370	-0.00277	-3.95002	0.17950	0.00038	14.00007	0.47136	-0.02949	0.85573
0.02719	9.08319	1.84891	-0.00004	-3.91081	0.17011	0.00034	13.55220	0.47725	-0.02954	0.85670
0.02783	8.87186	1.85517	0.00263	-3.87420	0.15970	0.00029	13.12223	0.48334	-0.02961	0.85789
0.02848	8.64598	1.86221	0.00535	-3.83576	0.14881	0.00025	12.66681	0.48994	-0.02962	0.85869
0.02915	8.39189	1.86942	0.00823	-3.79299	0.13864	0.00020	12.17500	0.49704	-0.02954	0.85895
0.02984	8.11713	1.87730	0.01134	-3.74750	0.13007	0.00014	11.66447	0.50451	-0.02936	0.85867
0.03054	7.84106	1.88582	0.01446	-3.70263	0.12190	0.00009	11.15669	0.51223	-0.02911	0.85805
0.03126	7.55693	1.89447	0.01753	-3.65690	0.11266	0.00003	10.63662	0.52043	-0.02884	0.85750
0.03199	7.23436	1.90291	0.02073	-3.60474	0.10121	-0.00002	10.06427	0.52969	-0.02854	0.85677
0.03275	6.88228	1.91044	0.02399	-3.54721	0.08847	-0.00007	9.46517	0.53971	-0.02816	0.85551
0.03352	6.54571	1.91721	0.02702	-3.49218	0.07591	-0.00011	8.90531	0.54957	-0.02763	0.85329
0.03430	6.22863	1.92382	0.02999	-3.44077	0.06436	-0.00015	8.39086	0.55915	-0.02692	0.84980
0.03511	5.91262	1.92969	0.03315	-3.38921	0.05506	-0.00020	7.90808	0.56849	-0.02623	0.84648
0.03594	5.60673	1.93514	0.03634	-3.33910	0.04795	-0.00025	7.46514	0.57747	-0.02579	0.84483
0.03678	5.32360	1.94139	0.03936	-3.29350	0.04126	-0.00029	7.06248	0.58624	-0.02550	0.84414
0.03765	5.03927	1.94866	0.04236	-3.24855	0.03319	-0.00033	6.66367	0.59557	-0.02516	0.84308
0.03854	4.73308	1.95568	0.04552	-3.19974	0.02333	-0.00037	6.24959	0.60578	-0.02467	0.84103
0.03944	4.43466	1.96181	0.04859	-3.15147	0.01285	-0.00041	5.86025	0.61602	-0.02408	0.83815
0.04037	4.18958	1.96761	0.05116	-3.11164	0.00311	-0.00044	5.54563	0.62509	-0.02341	0.83468
0.04132	3.99106	1.97424	0.05326	-3.07994	-0.00618	-0.00046	5.29140	0.63323	-0.02259	0.83024
0.04229	3.79411	1.98185	0.05520	-3.04944	-0.01576	-0.00048	5.04136	0.64170	-0.02172	0.82535
0.04329	3.59972	1.98945	0.05707	-3.02002	-0.02369	-0.00050	4.79871	0.65011	-0.02102	0.82165
0.04431	3.44507	1.99577	0.05854	-2.99698	-0.02759	-0.00052	4.60753	0.65690	-0.02063	0.81980
0.04535	3.34283	1.99967	0.05912	-2.98148	-0.02860	-0.00053	4.47541	0.66160	-0.02034	0.81858

0.04642	3.26875	2.00040	0.05897	-2.96874	-0.02806	-0.00054	4.37774	0.66483	-0.01992	0.81651
0.04751	3.20005	1.99865	0.05875	-2.95522	-0.02478	-0.00055	4.29821	0.66707	-0.01943	0.81389
0.04863	3.13324	1.99710	0.05848	-2.94226	-0.02080	-0.00057	4.22093	0.66930	-0.01911	0.81248
0.04977	3.04849	1.99757	0.05811	-2.92796	-0.02071	-0.00057	4.11117	0.67311	-0.01897	0.81226
0.05094	2.92053	1.99995	0.05815	-2.90792	-0.02484	-0.00057	3.95274	0.67912	-0.01874	0.81140
0.05214	2.76328	2.00268	0.05845	-2.88324	-0.03130	-0.00057	3.76885	0.68639	-0.01836	0.80935
0.05337	2.59525	2.00350	0.05848	-2.85540	-0.03863	-0.00058	3.58013	0.69396	-0.01784	0.80648
0.05462	2.41433	2.00192	0.05831	-2.82373	-0.04601	-0.00058	3.38803	0.70173	-0.01718	0.80275
0.05591	2.28716	1.99786	0.05715	-2.79953	-0.05201	-0.00057	3.24368	0.70754	-0.01642	0.79856
0.05722	2.22710	1.99274	0.05493	-2.78602	-0.05565	-0.00056	3.15694	0.71084	-0.01560	0.79400
0.05857	2.17348	1.98802	0.05262	-2.77387	-0.05759	-0.00055	3.08205	0.71363	-0.01480	0.78975
0.05995	2.10206	1.98388	0.05051	-2.75900	-0.05978	-0.00054	2.99659	0.71704	-0.01427	0.78756
0.06136	2.00470	1.98029	0.04851	-2.73993	-0.06463	-0.00054	2.89078	0.72175	-0.01416	0.78833
0.06280	1.87979	1.97596	0.04661	-2.71516	-0.07272	-0.00053	2.76653	0.72772	-0.01448	0.79182
0.06428	1.78806	1.96965	0.04415	-2.69382	-0.08141	-0.00051	2.67196	0.73243	-0.01498	0.79635
0.06579	1.73963	1.96423	0.04152	-2.68013	-0.08796	-0.00050	2.61640	0.73530	-0.01534	0.79973
0.06734	1.65211	1.96249	0.03991	-2.66278	-0.09340	-0.00050	2.54036	0.73956	-0.01548	0.80147
0.06893	1.52204	1.96148	0.03861	-2.63954	-0.09908	-0.00050	2.43347	0.74555	-0.01539	0.80192
0.07055	1.34631	1.95967	0.03770	-2.60861	-0.10480	-0.00051	2.29727	0.75328	-0.01524	0.80181
0.07221	1.19594	1.95439	0.03626	-2.57989	-0.10769	-0.00052	2.18082	0.75958	-0.01516	0.80187
0.07391	1.07296	1.94691	0.03460	-2.55438	-0.10608	-0.00053	2.09057	0.76393	-0.01511	0.80184
0.07565	0.95117	1.93916	0.03308	-2.52872	-0.10267	-0.00055	2.00864	0.76776	-0.01498	0.80128
0.07743	0.87242	1.93021	0.03047	-2.50924	-0.10104	-0.00055	1.94888	0.77031	-0.01484	0.80046
0.07925	0.80833	1.92208	0.02731	-2.49244	-0.10372	-0.00054	1.89252	0.77323	-0.01476	0.79988
0.08111	0.73328	1.91375	0.02370	-2.47286	-0.11365	-0.00052	1.82190	0.77797	-0.01463	0.79881
0.08302	0.64916	1.90305	0.01923	-2.44913	-0.13206	-0.00047	1.73528	0.78470	-0.01426	0.79626
0.08498	0.54660	1.89194	0.01485	-2.42163	-0.15305	-0.00043	1.63806	0.79288	-0.01387	0.79363
0.08697	0.44752	1.88151	0.01084	-2.39569	-0.16948	-0.00039	1.55068	0.80035	-0.01375	0.79305
0.08902	0.36445	1.87360	0.00719	-2.37503	-0.17871	-0.00036	1.48363	0.80598	-0.01384	0.79416
0.09112	0.30109	1.86889	0.00376	-2.36038	-0.18254	-0.00035	1.43890	0.80958	-0.01371	0.79407
0.09326	0.23013	1.86660	0.00073	-2.34581	-0.18559	-0.00036	1.40045	0.81281	-0.01312	0.79123
0.09545	0.16571	1.86550	-0.00208	-2.33305	-0.18720	-0.00037	1.37336	0.81491	-0.01228	0.78697
0.09770	0.13020	1.87034	-0.00281	-2.33154	-0.16823	-0.00044	1.38719	0.81123	-0.01165	0.78449
0.10000	0.03609	1.86189	-0.00624	-2.30888	-0.17770	-0.00043	1.33352	0.81595	-0.01121	0.78395
0.10235	-0.05848	1.85703	-0.00777	-2.29081	-0.17032	-0.00046	1.29818	0.81728	-0.01112	0.78621
0.10476	-0.16751	1.84946	-0.01001	-2.26801	-0.16854	-0.00048	1.24770	0.82052	-0.01083	0.78743
0.10723	-0.27017	1.84009	-0.01340	-2.24410	-0.17393	-0.00047	1.19162	0.82516	-0.01019	0.78610
0.10975	-0.34923	1.83111	-0.01755	-2.22390	-0.18141	-0.00045	1.14436	0.82948	-0.00951	0.78388
0.11233	-0.41011	1.82395	-0.02184	-2.20813	-0.18641	-0.00043	1.10909	0.83264	-0.00912	0.78319
0.11498	-0.46702	1.81828	-0.02599	-2.19444	-0.18920	-0.00042	1.07992	0.83508	-0.00913	0.78503
0.11768	-0.50379	1.81460	-0.03007	-2.18619	-0.18991	-0.00041	1.06335	0.83594	-0.00924	0.78753
0.12045	-0.48255	1.81512	-0.03406	-2.19186	-0.18416	-0.00041	1.07892	0.83264	-0.00911	0.78829
0.12328	-0.40814	1.81959	-0.03785	-2.21017	-0.17086	-0.00042	1.12581	0.82545	-0.00873	0.78700
0.12619	-0.34264	1.82520	-0.04128	-2.22758	-0.15581	-0.00044	1.17259	0.81865	-0.00823	0.78459
0.12916	-0.34889	1.82875	-0.04426	-2.23056	-0.14572	-0.00046	1.18375	0.81623	-0.00764	0.78116
0.13219	-0.45006	1.82802	-0.04694	-2.21349	-0.14367	-0.00048	1.14477	0.81962	-0.00689	0.77651
0.13531	-0.61787	1.82235	-0.04984	-2.18077	-0.14981	-0.00049	1.06903	0.82761	-0.00611	0.77168
0.13849	-0.80167	1.81246	-0.05337	-2.14176	-0.16181	-0.00048	0.98220	0.83761	-0.00550	0.76808
0.14175	-0.96493	1.79977	-0.05746	-2.10416	-0.17483	-0.00047	0.90456	0.84688	-0.00517	0.76643
0.14508	-1.08841	1.78668	-0.06175	-2.07352	-0.18355	-0.00046	0.84817	0.85313	-0.00509	0.76651
0.14850	-1.16389	1.77480	-0.06629	-2.05265	-0.18559	-0.00046	0.81648	0.85530	-0.00525	0.76804
0.15199	-1.19852	1.76529	-0.07108	-2.04124	-0.18066	-0.00046	0.80610	0.85378	-0.00559	0.77061
0.15557	-1.20597	1.75932	-0.07580	-2.03784	-0.17019	-0.00048	0.81100	0.84973	-0.00590	0.77276
0.15923	-1.20962	1.75683	-0.08020	-2.03824	-0.15855	-0.00049	0.81956	0.84545	-0.00588	0.77251
0.16298	-1.24136	1.75633	-0.08423	-2.03546	-0.15140	-0.00050	0.81549	0.84383	-0.00548	0.76956
0.16681	-1.32508	1.75680	-0.08769	-2.02410	-0.15004	-0.00051	0.78997	0.84636	-0.00492	0.76581
0.17074	-1.40034	1.75410	-0.09198	-2.01168	-0.15140	-0.00051	0.76495	0.84856	-0.00441	0.76285
0.17475	-1.49908	1.75066	-0.09573	-1.99414	-0.15053	-0.00052	0.73635	0.85123	-0.00399	0.76117
0.17887	-1.58311	1.74645	-0.09952	-1.97825	-0.14362	-0.00056	0.71960	0.85127	-0.00369	0.76082
0.18307	-1.60604	1.74191	-0.10424	-1.97295	-0.12733	-0.00060	0.73123	0.84529	-0.00351	0.76137
0.18738	-1.63546	1.74118	-0.10843	-1.96910	-0.10528	-0.00067	0.74860	0.83862	-0.00329	0.76169
0.19179	-1.62886	1.74146	-0.11351	-1.97243	-0.08067	-0.00074	0.78057	0.82965	-0.00286	0.76051
0.19631	-1.61899	1.74265	-0.11882	-1.97698	-0.05705	-0.00079	0.81295	0.82127	-0.00221	0.75793
0.20092	-1.59673	1.74239	-0.12458	-1.98273	-0.03650	-0.00083	0.84598	0.81310	-0.00148	0.75490
0.20565	-1.62886	1.74209	-0.12936	-1.97874	-0.02175	-0.00086	0.85396	0.80943	-0.00077	0.75209
0.21049	-1.70678	1.74018	-0.13368	-1.96556	-0.01378	-0.00088	0.83766	0.80966	-0.00024	0.75043
0.21544	-1.82793	1.73683	-0.13777	-1.94381	-0.01238	-0.00090	0.79940	0.81356	0.00003	0.75046
0.22051	-1.97492	1.73196	-0.14206	-1.91630	-0.01707	-0.00090	0.74825	0.82003	0.00001	0.75242
0.22570	-2.13751	1.72572	-0.14662	-1.88481	-0.02643	-0.00090	0.69074	0.82829	-0.00025	0.75616
0.23101	-2.30305	1.71931	-0.15124	-1.85272	-0.03616	-0.00089	0.63454	0.83705	-0.00070	0.76123
0.23645	-2.45719	1.71460	-0.15572	-1.82446	-0.04100	-0.00090	0.58718	0.84463	-0.00130	0.76702
0.24201	-2.58346	1.71361	-0.15988	-1.80478	-0.03747	-0.00092	0.55535	0.84924	-0.00195	0.77282
0.24771	-2.67110	1.71706	-0.16380	-1.79615	-0.02563	-0.00096	0.54170	0.84990	-0.00252	0.77788
0.25354	-2.71408	1.72353	-0.16796	-1.79827	-0.00845	-0.00101	0.54579	0.84648	-0.00293	0.78182
0.25950	-2.72035	1.73109	-0.17271	-1.80789	0.01064	-0.00104	0.56331	0.84001	-0.00309	0.78423
0.26561	-2.69415	1.73788	-0.17833	-1.82254	0.02954	-0.00106	0.59241	0.83105	-0.00299	0.78495
0.27186	-2.64146	1.74328	-0.18476	-1.84050	0.04747	-0.00108	0.63230	0.82006	-0.00261	0.78393
0.27826	-2.56624	1.74728	-0.19178	-1.86126	0.06558	-0.00108	0.68369	0.80714	-0.00191	0.78106
0.28480	-2.48559	1.74984	-0.19895	-1.88180	0.08328	-0.00109	0.74131	0.79362	-0.00098	0.77687
0.29150	-2.42651	1.75100	-0.20586	-1.89709	0.09789	-0.00109	0.79370	0.78169	0.00004	0.77241
0.29836	-2.41232	1.75081	-0.21226	-1.90289	0.10849	-0.00110	0.82929	0.77291	0.00103	0.76821

0.30539	-2.45697	1.74931	-0.21801	-1.89675	0.11559	-0.00112	0.83959	0.76810	0.00194	0.76447
0.31257	-2.54445	1.74664	-0.22331	-1.88195	0.12150	-0.00116	0.82985	0.76615	0.00263	0.76210
0.31993	-2.64387	1.74326	-0.22851	-1.86471	0.12878	-0.00120	0.81339	0.76498	0.00290	0.76238
0.32745	-2.73838	1.74008	-0.23371	-1.84887	0.13847	-0.00125	0.79786	0.76357	0.00269	0.76588
0.33517	-2.82111	1.73772	-0.23893	-1.83639	0.15148	-0.00129	0.78678	0.76140	0.00210	0.77198
0.34304	-2.90810	1.73737	-0.24367	-1.82520	0.16754	-0.00135	0.77447	0.75964	0.00132	0.77935
0.35112	-3.00082	1.73939	-0.24791	-1.81530	0.18640	-0.00141	0.76129	0.75830	0.00057	0.78639
0.35938	-3.10093	1.74344	-0.25171	-1.80588	0.20583	-0.00148	0.74620	0.75767	0.00005	0.79183
0.36784	-3.21172	1.74875	-0.25527	-1.79555	0.22266	-0.00154	0.72708	0.75816	-0.00020	0.79521
0.37649	-3.33353	1.75456	-0.25884	-1.78353	0.23551	-0.00159	0.70339	0.75981	-0.00024	0.79679
0.38536	-3.46198	1.76028	-0.26271	-1.77017	0.24545	-0.00165	0.67725	0.76213	-0.00020	0.79743
0.39442	-3.59272	1.76567	-0.26704	-1.75617	0.25407	-0.00169	0.65089	0.76457	-0.00018	0.79791
0.40370	-3.72261	1.77064	-0.27186	-1.74219	0.26207	-0.00174	0.62566	0.76678	-0.00020	0.79853
0.41321	-3.84960	1.77488	-0.27712	-1.72837	0.26808	-0.00178	0.60187	0.76869	-0.00025	0.79940
0.42292	-3.97462	1.77806	-0.28270	-1.71420	0.26993	-0.00180	0.57877	0.77048	-0.00033	0.80042
0.43288	-4.10349	1.78002	-0.28848	-1.69831	0.26586	-0.00181	0.55444	0.77260	-0.00045	0.80185
0.44307	-4.23919	1.78036	-0.29445	-1.67961	0.25512	-0.00179	0.52769	0.77539	-0.00075	0.80452
0.45349	-4.37975	1.77895	-0.30069	-1.65829	0.23794	-0.00176	0.49929	0.77873	-0.00131	0.80910
0.46417	-4.51573	1.77621	-0.30725	-1.63657	0.21611	-0.00171	0.47295	0.78168	-0.00207	0.81529
0.47508	-4.64268	1.77300	-0.31404	-1.61618	0.19256	-0.00166	0.45100	0.78350	-0.00283	0.82172
0.48626	-4.75842	1.76991	-0.32101	-1.59813	0.17121	-0.00161	0.43496	0.78354	-0.00340	0.82716
0.49771	-4.86304	1.76720	-0.32817	-1.58257	0.15526	-0.00157	0.42528	0.78145	-0.00374	0.83128
0.50942	-4.95851	1.76522	-0.33544	-1.56934	0.14625	-0.00155	0.42156	0.77732	-0.00387	0.83428
0.52140	-5.04562	1.76448	-0.34271	-1.55879	0.14478	-0.00156	0.42352	0.77131	-0.00387	0.83672
0.53367	-5.12470	1.76520	-0.34988	-1.55120	0.15042	-0.00158	0.43063	0.76373	-0.00386	0.83944
0.54624	-5.19721	1.76730	-0.35683	-1.54644	0.16197	-0.00162	0.44180	0.75507	-0.00390	0.84265
0.55910	-5.26580	1.77079	-0.36350	-1.54406	0.17781	-0.00166	0.45577	0.74585	-0.00384	0.84546
0.57225	-5.33255	1.77579	-0.36982	-1.54373	0.19657	-0.00171	0.47181	0.73644	-0.00354	0.84672
0.58569	-5.39705	1.78231	-0.37580	-1.54544	0.21782	-0.00176	0.49019	0.72688	-0.00294	0.84613
0.59948	-5.45758	1.79003	-0.38152	-1.54905	0.24175	-0.00181	0.51188	0.71700	-0.00218	0.84458
0.61357	-5.51241	1.79831	-0.38696	-1.55408	0.26824	-0.00187	0.53750	0.70673	-0.00148	0.84356
0.62802	-5.56282	1.80669	-0.39215	-1.55969	0.29690	-0.00194	0.56705	0.69608	-0.00098	0.84397
0.64280	-5.61119	1.81489	-0.39708	-1.56496	0.32663	-0.00201	0.59973	0.68533	-0.00068	0.84578
0.65794	-5.66009	1.82299	-0.40172	-1.56941	0.35638	-0.00208	0.63459	0.67475	-0.00050	0.84849
0.67340	-5.71006	1.83101	-0.40600	-1.57294	0.38543	-0.00215	0.67074	0.66464	-0.00040	0.85199
0.68927	-5.76153	1.83900	-0.40990	-1.57564	0.41384	-0.00223	0.70750	0.65514	-0.00041	0.85655
0.70547	-5.81660	1.84692	-0.41335	-1.57706	0.44098	-0.00230	0.74242	0.64666	-0.00054	0.86194
0.72207	-5.87929	1.85482	-0.41634	-1.57654	0.46603	-0.00237	0.77272	0.63952	-0.00070	0.86745
0.73910	-5.95143	1.86266	-0.41888	-1.57374	0.48817	-0.00243	0.79648	0.63387	-0.00085	0.87227
0.75649	-6.03105	1.87033	-0.42106	-1.56897	0.50703	-0.00249	0.81398	0.62950	-0.00094	0.87580
0.77429	-6.11232	1.87784	-0.42299	-1.56349	0.52341	-0.00254	0.82860	0.62584	-0.00094	0.87759
0.79246	-6.18961	1.88524	-0.42479	-1.55847	0.53793	-0.00258	0.84354	0.62241	-0.00083	0.87730
0.81116	-6.26186	1.89271	-0.42652	-1.55436	0.55109	-0.00262	0.86035	0.61900	-0.00058	0.87506
0.83022	-6.33012	1.90026	-0.42815	-1.55091	0.56255	-0.00265	0.87809	0.61575	-0.00022	0.87135
0.84976	-6.39775	1.90801	-0.42966	-1.54764	0.57186	-0.00267	0.89532	0.61281	0.00023	0.86659
0.86972	-6.46764	1.91605	-0.43107	-1.54415	0.57826	-0.00268	0.90977	0.61047	0.00079	0.86101
0.89023	-6.54423	1.92449	-0.43240	-1.53989	0.58077	-0.00268	0.91825	0.60910	0.00149	0.85474
0.91116	-6.63105	1.93314	-0.43366	-1.53410	0.57856	-0.00267	0.91719	0.60913	0.00231	0.84834
0.93257	-6.72958	1.94176	-0.43486	-1.52638	0.57179	-0.00265	0.90550	0.61061	0.00315	0.84261
0.95456	-6.83833	1.95016	-0.43606	-1.51697	0.56088	-0.00261	0.88461	0.61329	0.00386	0.83833
0.97704	-6.95547	1.95827	-0.43734	-1.50621	0.54637	-0.00257	0.85614	0.61693	0.00443	0.83571
1.00000	-7.08225	1.96631	-0.43880	-1.49416	0.52921	-0.00252	0.82043	0.62153	0.00491	0.83432
1.02354	-7.21954	1.97463	-0.44044	-1.48113	0.51105	-0.00248	0.77870	0.62695	0.00539	0.83346
1.04767	-7.36693	1.98336	-0.44232	-1.46739	0.49305	-0.00243	0.73290	0.63299	0.00596	0.83261
1.07227	-7.52057	1.99237	-0.44444	-1.45353	0.47594	-0.00239	0.68661	0.63911	0.00662	0.83161
1.09745	-7.67706	2.00142	-0.44684	-1.43997	0.45988	-0.00236	0.64296	0.64472	0.00733	0.83076
1.12334	-7.83312	2.01027	-0.44950	-1.42713	0.44556	-0.00233	0.60460	0.64917	0.00801	0.83060
1.14982	-7.98628	2.01871	-0.45240	-1.41516	0.43368	-0.00231	0.57291	0.65201	0.00857	0.83155
1.17675	-8.13526	2.02667	-0.45546	-1.40414	0.42469	-0.00230	0.54821	0.65297	0.00899	0.83378
1.20453	-8.28270	2.03426	-0.45866	-1.39380	0.41838	-0.00230	0.52973	0.65196	0.00923	0.83734
1.23289	-8.42877	2.04138	-0.46195	-1.38390	0.41414	-0.00231	0.51660	0.64909	0.00928	0.84215
1.26183	-8.57602	2.04811	-0.46526	-1.37389	0.41094	-0.00232	0.50735	0.64465	0.00914	0.84800
1.29149	-8.72574	2.05459	-0.46852	-1.36377	0.40810	-0.00233	0.50166	0.63865	0.00890	0.85431
1.32188	-8.87602	2.06120	-0.47168	-1.35430	0.40622	-0.00235	0.50061	0.63093	0.00870	0.86020
1.35300	-9.02487	2.06828	-0.47468	-1.34624	0.40585	-0.00237	0.50529	0.62135	0.00863	0.86495
1.38485	-9.16976	2.07600	-0.47742	-1.34031	0.40781	-0.00238	0.51710	0.60977	0.00877	0.86815
1.41743	-9.30967	2.08437	-0.47984	-1.33668	0.41276	-0.00241	0.53671	0.59627	0.00915	0.86979
1.45075	-9.44425	2.09315	-0.48191	-1.33506	0.42094	-0.00244	0.56447	0.58104	0.00972	0.87029
1.48500	-9.57422	2.10198	-0.48359	-1.33493	0.43192	-0.00247	0.60091	0.56415	0.01038	0.87033
1.51999	-9.69957	2.11051	-0.48481	-1.33573	0.44496	-0.00250	0.64598	0.54595	0.01104	0.87042
1.55569	-9.82110	2.11868	-0.48552	-1.33718	0.45975	-0.00254	0.70015	0.52665	0.01170	0.87058
1.59236	-9.94080	2.12658	-0.48570	-1.33897	0.47576	-0.00258	0.76440	0.50637	0.01240	0.87061
1.62973	-10.05833	2.13431	-0.48535	-1.34105	0.49263	-0.00261	0.83963	0.48542	0.01316	0.87024
1.66806	-10.17182	2.14205	-0.48446	-1.34409	0.51106	-0.00265	0.93054	0.46348	0.01401	0.86942
1.70736	-10.28088	2.14990	-0.48297	-1.34826	0.53088	-0.00269	1.04003	0.44073	0.01491	0.86836
1.74764	-10.38616	2.15796	-0.48084	-1.35346	0.55193	-0.00273	1.16986	0.41752	0.01582	0.86736
1.78859	-10.48798	2.16620	-0.47808	-1.35939	0.57384	-0.00276	1.31942	0.39446	0.01669	0.86681
1.83083	-10.58881	2.17472	-0.47469	-1.36590	0.59644	-0.00280	1.49099	0.37156	0.01748	0.86702
1.87371	-10.68634	2.18334	-0.47076	-1.37299	0.61930	-0.00284	1.68366	0.34930	0.01816	0.86805
1.91791	-10.78080	2.19210	-0.46632	-1.38096	0.64299	-0.00287	1.90336	0.32736	0.01876	0.86983
1.96309	-10.87137	2.20087	-0.46145	-1.38964	0.66730	-0.00291	2.14985	0.30606	0.01928	0.87219

2.00924	-10.95909	2.20956	-0.45622	-1.39870	0.69194	-0.00294	2.42182	0.28560	0.01972	0.87501
2.05634	-11.04513	2.21815	-0.45068	-1.40781	0.71648	-0.00297	2.71686	0.26613	0.02010	0.87813
2.10482	-11.13169	2.22669	-0.44480	-1.41670	0.74058	-0.00301	3.03363	0.24764	0.02042	0.88146
2.15424	-11.21928	2.23515	-0.43870	-1.42504	0.76363	-0.00304	3.36427	0.23042	0.02069	0.88479
2.20507	-11.31008	2.24360	-0.43237	-1.43260	0.78549	-0.00307	3.70541	0.21438	0.02090	0.88804
2.25683	-11.40442	2.25202	-0.42589	-1.43909	0.80572	-0.00309	4.04717	0.19971	0.02105	0.89122
2.31000	-11.50428	2.26052	-0.41924	-1.44438	0.82437	-0.00312	4.38555	0.18627	0.02114	0.89438
2.36463	-11.61035	2.26917	-0.41245	-1.44839	0.84139	-0.00314	4.71450	0.17403	0.02118	0.89759
2.42014	-11.72160	2.27794	-0.40562	-1.45111	0.85670	-0.00317	5.02631	0.16306	0.02117	0.90091
2.47709	-11.83904	2.28691	-0.39870	-1.45262	0.87055	-0.00319	5.31975	0.15318	0.02110	0.90447
2.53550	-11.96298	2.29611	-0.39173	-1.45283	0.88292	-0.00321	5.58975	0.14435	0.02099	0.90842
2.59471	-12.09101	2.30548	-0.38483	-1.45204	0.89389	-0.00323	5.83211	0.13660	0.02082	0.91285
2.65604	-12.22545	2.31516	-0.37785	-1.45026	0.90371	-0.00324	6.04939	0.12975	0.02060	0.91790
2.71887	-12.36414	2.32510	-0.37091	-1.44768	0.91242	-0.00326	6.23807	0.12381	0.02033	0.92358
2.78242	-12.50481	2.33514	-0.36411	-1.44445	0.92003	-0.00328	6.39613	0.11878	0.02002	0.92985
2.84819	-12.64939	2.34541	-0.35729	-1.44069	0.92687	-0.00329	6.52882	0.11450	0.01967	0.93693
2.91545	-12.79588	2.35592	-0.35056	-1.43659	0.93301	-0.00330	6.63577	0.11095	0.01928	0.94475
2.98329	-12.94090	2.36627	-0.34398	-1.43234	0.93843	-0.00331	6.71834	0.10812	0.01886	0.95309
3.05344	-13.08787	2.37693	-0.33744	-1.42801	0.94347	-0.00332	6.78050	0.10589	0.01843	0.96188
3.12598	-13.23578	2.38766	-0.33090	-1.42364	0.94811	-0.00333	6.82378	0.10424	0.01798	0.97093
3.19898	-13.38052	2.39829	-0.32460	-1.41944	0.95237	-0.00334	6.84884	0.10314	0.01753	0.97968
3.27439	-13.52571	2.40896	-0.31829	-1.41529	0.95632	-0.00335	6.85792	0.10255	0.01709	0.98807
3.35121	-13.66896	2.41959	-0.31215	-1.41131	0.96000	-0.00335	6.85328	0.10237	0.01666	0.99579
3.43053	-13.81251	2.43021	-0.30599	-1.40737	0.96339	-0.00336	6.83545	0.10261	0.01623	1.00318
3.51124	-13.95348	2.44079	-0.30002	-1.40372	0.96666	-0.00336	6.80853	0.10317	0.01582	1.01037
3.59324	-14.09157	2.45104	-0.29409	-1.40026	0.96970	-0.00337	6.77342	0.10404	0.01541	1.01773
3.67782	-14.23006	2.46163	-0.28828	-1.39700	0.97274	-0.00337	6.73102	0.10514	0.01499	1.02565
3.76506	-14.36633	2.47169	-0.28242	-1.39389	0.97555	-0.00337	6.68182	0.10653	0.01455	1.03466
3.85356	-14.50251	2.48232	-0.27677	-1.39104	0.97840	-0.00337	6.62583	0.10813	0.01411	1.04441
3.94477	-14.63456	2.49206	-0.27111	-1.38836	0.98102	-0.00337	6.56540	0.10998	0.01363	1.05504
4.03714	-14.76748	2.50253	-0.26560	-1.38593	0.98370	-0.00337	6.49869	0.11203	0.01316	1.06593
4.13223	-14.89683	2.51241	-0.26019	-1.38372	0.98628	-0.00336	6.43029	0.11423	0.01266	1.07708
4.23012	-15.02582	2.52225	-0.25472	-1.38169	0.98875	-0.00336	6.35625	0.11670	0.01214	1.08820
4.32900	-15.15501	2.53285	-0.24950	-1.37995	0.99138	-0.00336	6.28104	0.11919	0.01165	1.09854
4.43066	-15.27704	2.54186	-0.24426	-1.37838	0.99370	-0.00335	6.20694	0.12184	0.01111	1.10855
4.53515	-15.40472	2.55233	-0.23901	-1.37700	0.99621	-0.00335	6.12765	0.12463	0.01058	1.11795
4.64253	-15.52986	2.56253	-0.23392	-1.37584	0.99875	-0.00334	6.05211	0.12736	0.01007	1.12677
4.75059	-15.64656	2.57111	-0.22882	-1.37482	1.00092	-0.00334	5.97910	0.13017	0.00952	1.13516
4.86145	-15.77215	2.58197	-0.22374	-1.37399	1.00343	-0.00333	5.90230	0.13303	0.00900	1.14290
4.97760	-15.89349	2.59178	-0.21876	-1.37334	1.00589	-0.00332	5.83134	0.13580	0.00847	1.15038
5.09424	-16.00654	2.60001	-0.21372	-1.37282	1.00800	-0.00332	5.76311	0.13864	0.00792	1.15756
5.21376	-16.13114	2.61113	-0.20869	-1.37248	1.01054	-0.00331	5.69094	0.14150	0.00741	1.16419
5.33618	-16.24802	2.62087	-0.20392	-1.37234	1.01302	-0.00330	5.62837	0.14412	0.00692	1.17052
5.46150	-16.35445	2.62813	-0.19904	-1.37227	1.01503	-0.00329	5.56969	0.14680	0.00638	1.17700
5.58971	-16.47445	2.63865	-0.19405	-1.37234	1.01746	-0.00328	5.50543	0.14955	0.00588	1.18323
5.72082	-16.59489	2.64966	-0.18936	-1.37254	1.02007	-0.00327	5.44709	0.15204	0.00543	1.18928
5.85823	-16.69660	2.65604	-0.18465	-1.37282	1.02204	-0.00327	5.39864	0.15448	0.00492	1.19599
5.99520	-16.80472	2.66431	-0.17980	-1.37322	1.02415	-0.00326	5.34641	0.15700	0.00442	1.20267
6.13497	-16.92784	2.67628	-0.17499	-1.37373	1.02679	-0.00325	5.29171	0.15941	0.00400	1.20910
6.28141	-17.03504	2.68456	-0.17056	-1.37429	1.02906	-0.00324	5.24934	0.16153	0.00358	1.21589
6.42674	-17.12382	2.68906	-0.16617	-1.37490	1.03070	-0.00323	5.21319	0.16363	0.00310	1.22300
6.57895	-17.23267	2.69776	-0.16136	-1.37565	1.03286	-0.00322	5.16924	0.16589	0.00265	1.23023
6.73401	-17.35684	2.71025	-0.15663	-1.37649	1.03557	-0.00320	5.12405	0.16800	0.00229	1.23716
6.89180	-17.45179	2.71651	-0.15262	-1.37727	1.03753	-0.00319	5.09468	0.16969	0.00192	1.24431
7.05716	-17.53139	2.71887	-0.14849	-1.37812	1.03896	-0.00318	5.06947	0.17147	0.00148	1.25207
7.22022	-17.62724	2.72544	-0.14411	-1.37907	1.04082	-0.00317	5.03842	0.17330	0.00109	1.25931
7.39098	-17.74776	2.73731	-0.13941	-1.38013	1.04337	-0.00316	5.00157	0.17515	0.00075	1.26617
7.56430	-17.84873	2.74530	-0.13556	-1.38110	1.04553	-0.00315	4.97684	0.17657	0.00047	1.27259
7.73994	-17.90538	2.74359	-0.13244	-1.38197	1.04647	-0.00314	4.96633	0.17779	0.00010	1.27912
7.92393	-17.97873	2.74521	-0.12874	-1.38301	1.04780	-0.00313	4.94952	0.17919	-0.00026	1.28533
8.11030	-18.07025	2.75099	-0.12467	-1.38414	1.04958	-0.00312	4.92716	0.18067	-0.00059	1.29089
8.29876	-18.18701	2.76260	-0.12028	-1.38533	1.05198	-0.00311	4.89895	0.18215	-0.00085	1.29564
8.49618	-18.26259	2.76522	-0.11734	-1.38631	1.05348	-0.00310	4.88814	0.18311	-0.00110	1.30031
8.69565	-18.28773	2.75713	-0.11556	-1.38716	1.05381	-0.00309	4.89305	0.18376	-0.00141	1.30522
8.90472	-18.33777	2.75409	-0.11299	-1.38820	1.05474	-0.00309	4.89001	0.18461	-0.00171	1.31001
9.11577	-18.39706	2.75330	-0.11024	-1.38928	1.05587	-0.00308	4.88419	0.18548	-0.00199	1.31460
9.32836	-18.49324	2.76052	-0.10632	-1.39052	1.05769	-0.00307	4.86475	0.18671	-0.00224	1.31901
9.54198	-18.57707	2.76563	-0.10334	-1.39159	1.05930	-0.00306	4.85241	0.18761	-0.00243	1.32329
9.76563	-18.57248	2.75210	-0.10372	-1.39220	1.05934	-0.00305	4.87487	0.18737	-0.00261	1.32823
10.00000	-18.55951	2.73667	-0.10442	-1.39286	1.05941	-0.00305	4.90296	0.18694	-0.00278	1.33386

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
High stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 152 - 305 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-1.53469	2.35315	-0.26044	-2.57578	0.74837	-0.00071	7.27207	0.29784	0.02691	0.23376
PGV	7.96755	1.92490	-0.18632	-3.48910	0.80908	0.00020	15.24991	0.28429	0.00533	0.37434
PGA	4.26248	1.66170	-0.05801	-3.10626	0.32049	-0.00029	7.25285	0.48614	-0.03017	0.78616
0.01000	4.00977	1.67576	-0.05440	-3.06003	0.28770	-0.00034	6.98731	0.49692	-0.00858	0.71033
0.01024	4.00434	1.67620	-0.05409	-3.05885	0.28626	-0.00034	6.97470	0.49743	-0.00860	0.71076
0.01048	4.00298	1.67660	-0.05378	-3.05835	0.28503	-0.00034	6.96823	0.49781	-0.00863	0.71116
0.01072	4.00544	1.67696	-0.05347	-3.05850	0.28399	-0.00034	6.96753	0.49807	-0.00866	0.71153
0.01097	4.01159	1.67730	-0.05317	-3.05925	0.28311	-0.00034	6.97230	0.49824	-0.00870	0.71189
0.01123	4.02139	1.67761	-0.05286	-3.06062	0.28238	-0.00034	6.98251	0.49830	-0.00874	0.71224
0.01150	4.03485	1.67790	-0.05254	-3.06259	0.28179	-0.00033	6.99812	0.49826	-0.00879	0.71259
0.01177	4.05212	1.67818	-0.05221	-3.06518	0.28132	-0.00033	7.01933	0.49813	-0.00885	0.71294
0.01205	4.07345	1.67845	-0.05187	-3.06845	0.28096	-0.00033	7.04651	0.49790	-0.00891	0.71330
0.01233	4.09915	1.67872	-0.05152	-3.07243	0.28071	-0.00033	7.08013	0.49756	-0.00898	0.71367
0.01262	4.12952	1.67898	-0.05114	-3.07717	0.28057	-0.00032	7.12063	0.49712	-0.00907	0.71408
0.01292	4.16491	1.67924	-0.05074	-3.08273	0.28053	-0.00032	7.16857	0.49656	-0.00916	0.71452
0.01322	4.20603	1.67951	-0.05032	-3.08921	0.28061	-0.00032	7.22504	0.49589	-0.00927	0.71502
0.01353	4.25351	1.67979	-0.04986	-3.09673	0.28079	-0.00031	7.29106	0.49507	-0.00939	0.71561
0.01385	4.30796	1.68007	-0.04936	-3.10536	0.28109	-0.00030	7.36764	0.49412	-0.00952	0.71630
0.01417	4.37005	1.68036	-0.04882	-3.11522	0.28150	-0.00030	7.45597	0.49301	-0.00968	0.71710
0.01451	4.44067	1.68065	-0.04823	-3.12642	0.28204	-0.00029	7.55765	0.49173	-0.00985	0.71806
0.01485	4.52129	1.68095	-0.04758	-3.13922	0.28269	-0.00028	7.67500	0.49025	-0.01005	0.71922
0.01520	4.61298	1.68127	-0.04687	-3.15377	0.28341	-0.00027	7.80988	0.48858	-0.01028	0.72062
0.01556	4.71639	1.68161	-0.04609	-3.17016	0.28421	-0.00026	7.96374	0.48670	-0.01054	0.72226
0.01592	4.83186	1.68199	-0.04522	-3.18842	0.28516	-0.00024	8.13766	0.48462	-0.01083	0.72415
0.01630	4.95923	1.68240	-0.04426	-3.20852	0.28628	-0.00023	8.33195	0.48236	-0.01114	0.72623
0.01668	5.09700	1.68285	-0.04320	-3.23018	0.28750	-0.00021	8.54468	0.47996	-0.01147	0.72853
0.01707	5.24333	1.68337	-0.04203	-3.25310	0.28876	-0.00020	8.77316	0.47748	-0.01182	0.73107
0.01748	5.39682	1.68393	-0.04076	-3.27699	0.29000	-0.00018	9.01580	0.47496	-0.01221	0.73388
0.01789	5.55647	1.68449	-0.03937	-3.30162	0.29116	-0.00017	9.27160	0.47241	-0.01263	0.73693
0.01831	5.72423	1.68505	-0.03787	-3.32733	0.29218	-0.00015	9.54371	0.46983	-0.01308	0.74020
0.01874	5.89903	1.68570	-0.03626	-3.35401	0.29307	-0.00014	9.82991	0.46724	-0.01356	0.74370
0.01918	6.07679	1.68649	-0.03451	-3.38099	0.29395	-0.00012	10.12379	0.46474	-0.01408	0.74744
0.01963	6.25420	1.68728	-0.03259	-3.40754	0.29514	-0.00011	10.42279	0.46232	-0.01462	0.75140
0.02009	6.43493	1.68818	-0.03053	-3.43441	0.29666	-0.00010	10.73260	0.45994	-0.01515	0.75528
0.02057	6.61778	1.68954	-0.02843	-3.46174	0.29776	-0.00009	11.04624	0.45772	-0.01561	0.75867
0.02105	6.78692	1.69129	-0.02630	-3.48692	0.29803	-0.00008	11.33348	0.45596	-0.01602	0.76183
0.02154	6.92026	1.69277	-0.02406	-3.50574	0.29776	-0.00008	11.55955	0.45488	-0.01647	0.76517
0.02205	7.01234	1.69345	-0.02174	-3.51677	0.29697	-0.00009	11.71899	0.45445	-0.01691	0.76851
0.02257	7.07755	1.69378	-0.01946	-3.52279	0.29526	-0.00009	11.83121	0.45453	-0.01732	0.77172
0.02310	7.11538	1.69466	-0.01720	-3.52443	0.29252	-0.00011	11.88726	0.45530	-0.01767	0.77459
0.02364	7.12150	1.69630	-0.01485	-3.52127	0.28931	-0.00012	11.87897	0.45682	-0.01799	0.77735
0.02420	7.11161	1.69874	-0.01247	-3.51612	0.28572	-0.00014	11.83393	0.45879	-0.01837	0.78049
0.02477	7.09929	1.70218	-0.01012	-3.51154	0.28171	-0.00016	11.77487	0.46099	-0.01874	0.78358
0.02535	7.08469	1.70652	-0.00774	-3.50735	0.27867	-0.00019	11.71078	0.46328	-0.01900	0.78579
0.02595	7.06208	1.71132	-0.00528	-3.50209	0.27723	-0.00022	11.63805	0.46565	-0.01906	0.78679
0.02656	7.03312	1.71589	-0.00285	-3.49560	0.27579	-0.00024	11.55293	0.46814	-0.01903	0.78724
0.02719	6.99494	1.71952	-0.00055	-3.48689	0.27318	-0.00027	11.44769	0.47081	-0.01896	0.78754
0.02783	6.91973	1.72224	0.00169	-3.47127	0.26894	-0.00029	11.27554	0.47418	-0.01888	0.78788
0.02848	6.79113	1.72504	0.00400	-3.44681	0.26306	-0.00033	11.00713	0.47869	-0.01885	0.78851
0.02915	6.63016	1.72873	0.00636	-3.41767	0.25568	-0.00036	10.68032	0.48407	-0.01879	0.78890
0.02984	6.44272	1.73324	0.00878	-3.38471	0.24715	-0.00040	10.30899	0.49023	-0.01862	0.78866
0.03054	6.21986	1.73775	0.01144	-3.34577	0.23862	-0.00044	9.88846	0.49718	-0.01841	0.78814
0.03126	5.97812	1.74204	0.01442	-3.30345	0.23088	-0.00049	9.45243	0.50452	-0.01823	0.78790
0.03199	5.74583	1.74704	0.01768	-3.26330	0.22491	-0.00054	9.04526	0.51177	-0.01814	0.78827
0.03275	5.51865	1.75284	0.02105	-3.22506	0.22102	-0.00060	8.65509	0.51896	-0.01801	0.78846
0.03352	5.29269	1.75839	0.02429	-3.18772	0.21810	-0.00065	8.27172	0.52610	-0.01772	0.78778
0.03430	5.08609	1.76349	0.02716	-3.15388	0.21489	-0.00070	7.92344	0.53283	-0.01750	0.78758
0.03511	4.91290	1.76935	0.02972	-3.12632	0.21101	-0.00074	7.63017	0.53901	-0.01750	0.78883
0.03594	4.76194	1.77649	0.03206	-3.10333	0.20658	-0.00077	7.37311	0.54495	-0.01762	0.79082
0.03678	4.60981	1.78403	0.03420	-3.08026	0.20161	-0.00080	7.12013	0.55108	-0.01768	0.79243
0.03765	4.44141	1.79140	0.03628	-3.05412	0.19639	-0.00084	6.85221	0.55771	-0.01757	0.79299
0.03854	4.24615	1.79842	0.03847	-3.02327	0.19081	-0.00087	6.55285	0.56514	-0.01727	0.79221
0.03944	4.01313	1.80466	0.04087	-2.98596	0.18390	-0.00091	6.20423	0.57379	-0.01678	0.78999
0.04037	3.75814	1.81021	0.04345	-2.94470	0.17542	-0.00094	5.83244	0.58334	-0.01615	0.78661
0.04132	3.51965	1.81450	0.04583	-2.90515	0.16745	-0.00097	5.49954	0.59237	-0.01554	0.78335
0.04229	3.32443	1.81587	0.04737	-2.87057	0.16096	-0.00100	5.23790	0.59971	-0.01509	0.78118
0.04329	3.17582	1.81437	0.04778	-2.84195	0.15400	-0.00101	5.03490	0.60554	-0.01477	0.77998
0.04431	3.05492	1.81125	0.04749	-2.81730	0.14619	-0.00101	4.85914	0.61066	-0.01457	0.77969
0.04535	2.92999	1.80772	0.04728	-2.79207	0.13859	-0.00101	4.67806	0.61598	-0.01454	0.78059

0.04642	2.79108	1.80526	0.04743	-2.76548	0.13035	-0.00101	4.48052	0.62211	-0.01467	0.78240
0.04751	2.65294	1.80463	0.04778	-2.74052	0.12209	-0.00100	4.28576	0.62862	-0.01478	0.78398
0.04863	2.53100	1.80688	0.04821	-2.72044	0.11531	-0.00101	4.11566	0.63486	-0.01462	0.78377
0.04977	2.42676	1.81230	0.04864	-2.70548	0.10993	-0.00101	3.97179	0.64080	-0.01413	0.78154
0.05094	2.33595	1.81840	0.04882	-2.69301	0.10433	-0.00102	3.84467	0.64651	-0.01348	0.77828
0.05214	2.24486	1.82360	0.04886	-2.67959	0.09662	-0.00101	3.71784	0.65244	-0.01273	0.77404
0.05337	2.14454	1.83029	0.04924	-2.66550	0.08729	-0.00101	3.58650	0.65899	-0.01180	0.76834
0.05462	2.04032	1.83930	0.04990	-2.65228	0.07845	-0.00101	3.45915	0.66584	-0.01064	0.76119
0.05591	1.92993	1.84751	0.05020	-2.63729	0.06974	-0.00101	3.33059	0.67284	-0.00943	0.75401
0.05722	1.81804	1.85208	0.04957	-2.61974	0.06120	-0.00101	3.20037	0.67958	-0.00836	0.74790
0.05857	1.67148	1.85492	0.04895	-2.59572	0.05328	-0.00101	3.04533	0.68721	-0.00751	0.74313
0.05995	1.52614	1.85591	0.04801	-2.57141	0.04663	-0.00102	2.89539	0.69444	-0.00698	0.74041
0.06136	1.36511	1.85513	0.04714	-2.54349	0.04028	-0.00102	2.74001	0.70193	-0.00692	0.74076
0.06280	1.23969	1.85284	0.04579	-2.52052	0.03543	-0.00103	2.61865	0.70783	-0.00714	0.74314
0.06428	1.14177	1.85087	0.04432	-2.50221	0.03251	-0.00103	2.52509	0.71251	-0.00728	0.74506
0.06579	1.05755	1.84862	0.04280	-2.48583	0.03197	-0.00104	2.44629	0.71646	-0.00711	0.74492
0.06734	0.97246	1.84548	0.04100	-2.46850	0.03086	-0.00104	2.36469	0.72071	-0.00672	0.74314
0.06893	0.88055	1.84180	0.03885	-2.44930	0.02532	-0.00104	2.27170	0.72610	-0.00639	0.74172
0.07055	0.77587	1.83796	0.03668	-2.42741	0.01582	-0.00102	2.16952	0.73256	-0.00624	0.74169
0.07221	0.68348	1.83370	0.03425	-2.40730	0.00654	-0.00100	2.08245	0.73822	-0.00610	0.74176
0.07391	0.55952	1.83036	0.03235	-2.38279	-0.00191	-0.00100	1.98466	0.74472	-0.00595	0.74160
0.07565	0.47563	1.82530	0.02968	-2.36439	-0.00639	-0.00099	1.91590	0.74892	-0.00589	0.74190
0.07743	0.38799	1.82104	0.02736	-2.34577	-0.00782	-0.00100	1.84904	0.75314	-0.00582	0.74200
0.07925	0.33476	1.81508	0.02434	-2.33185	-0.00759	-0.00099	1.79959	0.75598	-0.00576	0.74203
0.08111	0.28264	1.80784	0.02111	-2.31721	-0.00985	-0.00098	1.74560	0.75926	-0.00577	0.74237
0.08302	0.18690	1.80203	0.01852	-2.29591	-0.01917	-0.00096	1.66238	0.76561	-0.00569	0.74186
0.08498	0.11212	1.79672	0.01548	-2.27879	-0.03093	-0.00093	1.58912	0.77163	-0.00544	0.74026
0.08697	0.03851	1.79273	0.01242	-2.26312	-0.04191	-0.00091	1.51937	0.77768	-0.00517	0.73897
0.08902	-0.04498	1.78872	0.00928	-2.24567	-0.05281	-0.00088	1.44783	0.78415	-0.00495	0.73843
0.09112	-0.12026	1.78501	0.00603	-2.22963	-0.06288	-0.00086	1.38753	0.78979	-0.00478	0.73851
0.09326	-0.17497	1.78261	0.00294	-2.21816	-0.06781	-0.00085	1.35069	0.79299	-0.00478	0.73985
0.09545	-0.23765	1.78083	0.00033	-2.20588	-0.06704	-0.00087	1.32232	0.79491	-0.00496	0.74263
0.09770	-0.31312	1.77808	-0.00231	-2.19089	-0.06415	-0.00090	1.29175	0.79674	-0.00516	0.74583
0.10000	-0.39465	1.77585	-0.00499	-2.17557	-0.06220	-0.00092	1.25721	0.79915	-0.00531	0.74897
0.10235	-0.47310	1.77436	-0.00773	-2.16133	-0.06314	-0.00093	1.22097	0.80224	-0.00552	0.75276
0.10476	-0.55007	1.77116	-0.01083	-2.14551	-0.06846	-0.00093	1.17918	0.80636	-0.00590	0.75819
0.10723	-0.63447	1.76448	-0.01437	-2.12534	-0.07740	-0.00091	1.12722	0.81177	-0.00621	0.76368
0.10975	-0.73254	1.75568	-0.01772	-2.10142	-0.08560	-0.00090	1.06856	0.81788	-0.00600	0.76576
0.11233	-0.84232	1.74745	-0.02046	-2.07631	-0.08869	-0.00090	1.01194	0.82365	-0.00519	0.76344
0.11498	-0.95043	1.74161	-0.02293	-2.05341	-0.08822	-0.00092	0.96327	0.82870	-0.00422	0.75968
0.11768	-1.03377	1.73889	-0.02554	-2.03730	-0.08651	-0.00093	0.92903	0.83226	-0.00349	0.75735
0.12045	-1.08226	1.73843	-0.02829	-2.02936	-0.08222	-0.00095	0.91263	0.83337	-0.00301	0.75637
0.12328	-1.12927	1.73672	-0.03115	-2.02081	-0.07779	-0.00097	0.89730	0.83412	-0.00269	0.75615
0.12619	-1.21391	1.73108	-0.03424	-2.00236	-0.07809	-0.00098	0.86230	0.83778	-0.00260	0.75716
0.12916	-1.33181	1.72240	-0.03781	-1.97566	-0.08448	-0.00098	0.80806	0.84483	-0.00263	0.75874
0.13219	-1.44791	1.71311	-0.04205	-1.94908	-0.09517	-0.00096	0.75220	0.85288	-0.00244	0.75873
0.13531	-1.53225	1.70436	-0.04693	-1.92870	-0.10629	-0.00093	0.71028	0.85899	-0.00198	0.75665
0.13849	-1.58563	1.69693	-0.05202	-1.91504	-0.11229	-0.00091	0.68422	0.86213	-0.00148	0.75393
0.14175	-1.62807	1.69242	-0.05679	-1.90598	-0.11048	-0.00091	0.66785	0.86329	-0.00095	0.75049
0.14508	-1.66962	1.69054	-0.06134	-1.89897	-0.10525	-0.00092	0.65592	0.86379	-0.00026	0.74562
0.14850	-1.71573	1.68986	-0.06582	-1.89126	-0.10200	-0.00094	0.64465	0.86461	0.00058	0.73963
0.15199	-1.77584	1.68955	-0.07010	-1.88080	-0.10346	-0.00095	0.62891	0.86686	0.00137	0.73398
0.15557	-1.86840	1.68902	-0.07386	-1.86470	-0.11093	-0.00095	0.60062	0.87223	0.00183	0.73032
0.15923	-2.00265	1.68689	-0.07714	-1.84058	-0.12289	-0.00094	0.55715	0.88136	0.00183	0.72985
0.16298	-2.16352	1.68276	-0.08010	-1.81046	-0.13388	-0.00094	0.50710	0.89259	0.00154	0.73155
0.16681	-2.28978	1.67641	-0.08381	-1.78491	-0.13684	-0.00095	0.47058	0.90028	0.00147	0.73207
0.17074	-2.36156	1.66962	-0.08839	-1.76877	-0.13056	-0.00097	0.45279	0.90235	0.00171	0.73062
0.17475	-2.42417	1.66524	-0.09276	-1.75612	-0.12045	-0.00100	0.44077	0.90302	0.00204	0.72867
0.17887	-2.48374	1.66207	-0.09727	-1.74530	-0.11038	-0.00103	0.43013	0.90346	0.00237	0.72694
0.18307	-2.55021	1.65971	-0.10185	-1.73440	-0.10110	-0.00106	0.41774	0.90452	0.00263	0.72597
0.18738	-2.61454	1.65769	-0.10674	-1.72475	-0.09220	-0.00108	0.40585	0.90533	0.00273	0.72617
0.19179	-2.67600	1.65663	-0.11170	-1.71673	-0.08224	-0.00111	0.39583	0.90551	0.00261	0.72773
0.19631	-2.68815	1.65427	-0.11781	-1.71648	-0.06956	-0.00113	0.39864	0.90101	0.00223	0.73102
0.20092	-2.67752	1.65407	-0.12360	-1.72162	-0.05015	-0.00116	0.41158	0.89330	0.00165	0.73574
0.20565	-2.63797	1.65492	-0.12943	-1.73260	-0.02669	-0.00120	0.43449	0.88277	0.00120	0.73979
0.21049	-2.66156	1.65843	-0.13361	-1.73373	-0.00874	-0.00125	0.44062	0.87870	0.00122	0.74097
0.21544	-2.74498	1.66119	-0.13711	-1.72279	-0.00124	-0.00128	0.42647	0.88152	0.00187	0.73809
0.22051	-2.87405	1.66181	-0.14059	-1.70096	-0.00420	-0.00130	0.39690	0.88999	0.00305	0.73179
0.22570	-3.01385	1.66120	-0.14451	-1.67542	-0.01252	-0.00132	0.36505	0.90021	0.00435	0.72450
0.23101	-3.12147	1.66105	-0.14917	-1.65619	-0.01823	-0.00133	0.34437	0.90682	0.00544	0.71836
0.23645	-3.20760	1.66325	-0.15374	-1.64336	-0.02054	-0.00134	0.33267	0.91024	0.00636	0.71311
0.24201	-3.24689	1.66485	-0.15908	-1.63929	-0.02304	-0.00134	0.33234	0.90886	0.00725	0.70797
0.24771	-3.26887	1.66548	-0.16470	-1.63753	-0.02819	-0.00132	0.33592	0.90597	0.00788	0.70458
0.25354	-3.26776	1.66432	-0.17099	-1.63807	-0.03215	-0.00129	0.34499	0.90077	0.00800	0.70500
0.25950	-3.24950	1.66244	-0.17792	-1.64088	-0.03156	-0.00126	0.35892	0.89360	0.00765	0.70931
0.26561	-3.23625	1.66135	-0.18493	-1.64349	-0.02546	-0.00126	0.37290	0.88645	0.00707	0.71590
0.27186	-3.24814	1.66169	-0.19140	-1.64292	-0.01487	-0.00127	0.38184	0.88114	0.00659	0.72235
0.27826	-3.29610	1.66399	-0.19685	-1.63768	-0.00317	-0.00131	0.38236	0.87893	0.00640	0.72701
0.28480	-3.37557	1.66870	-0.20114	-1.62903	0.00633	-0.00135	0.37523	0.87979	0.00642	0.73017
0.29150	-3.47256	1.67542	-0.20470	-1.61927	0.01225	-0.00139	0.36392	0.88261	0.00653	0.73256
0.29836	-3.57614	1.68259	-0.20814	-1.60909	0.01375	-0.00142	0.35044	0.88655	0.00673	0.73396

0.30539	-3.67368	1.68767	-0.21216	-1.59846	0.01077	-0.00143	0.33657	0.89063	0.00710	0.73393
0.31257	-3.74779	1.68909	-0.21727	-1.58911	0.00609	-0.00142	0.32649	0.89278	0.00760	0.73272
0.31993	-3.79069	1.68723	-0.22350	-1.58288	0.00419	-0.00140	0.32334	0.89133	0.00817	0.73083
0.32745	-3.80325	1.68299	-0.23064	-1.58048	0.00837	-0.00138	0.32846	0.88555	0.00878	0.72854
0.33517	-3.79892	1.67694	-0.23837	-1.57982	0.01874	-0.00138	0.33977	0.87643	0.00940	0.72568
0.34304	-3.80135	1.66963	-0.24628	-1.57662	0.03132	-0.00140	0.35143	0.86676	0.00998	0.72251
0.35112	-3.82534	1.66183	-0.25420	-1.56844	0.04178	-0.00143	0.35873	0.85876	0.01025	0.72082
0.35938	-3.88280	1.65585	-0.26157	-1.55503	0.04913	-0.00146	0.35817	0.85426	0.01004	0.72206
0.36784	-3.97207	1.65404	-0.26799	-1.53936	0.05654	-0.00151	0.35080	0.85310	0.00950	0.72531
0.37649	-4.08881	1.65762	-0.27315	-1.52380	0.06681	-0.00158	0.33854	0.85469	0.00889	0.72887
0.38536	-4.21733	1.66553	-0.27734	-1.51065	0.08124	-0.00167	0.32556	0.85720	0.00833	0.73202
0.39442	-4.34502	1.67615	-0.28108	-1.50096	0.09992	-0.00177	0.31445	0.85922	0.00786	0.73464
0.40370	-4.46140	1.68816	-0.28503	-1.49555	0.12274	-0.00187	0.30717	0.85956	0.00757	0.73645
0.41321	-4.56028	1.70017	-0.28964	-1.49439	0.14948	-0.00197	0.30435	0.85759	0.00747	0.73728
0.42292	-4.64588	1.71033	-0.29498	-1.49486	0.17693	-0.00205	0.30360	0.85414	0.00748	0.73753
0.43288	-4.72251	1.71711	-0.30097	-1.49446	0.20155	-0.00212	0.30310	0.84989	0.00751	0.73786
0.44307	-4.78823	1.72014	-0.30751	-1.49274	0.22140	-0.00216	0.30345	0.84474	0.00754	0.73861
0.45349	-4.84006	1.72010	-0.31451	-1.49042	0.23570	-0.00217	0.30626	0.83828	0.00761	0.73975
0.46417	-4.87497	1.71784	-0.32193	-1.48849	0.24460	-0.00216	0.31330	0.83003	0.00767	0.74169
0.47508	-4.90433	1.71460	-0.32936	-1.48570	0.24882	-0.00214	0.32255	0.82119	0.00764	0.74502
0.48626	-4.93770	1.71127	-0.33661	-1.48117	0.24907	-0.00211	0.33161	0.81292	0.00756	0.74949
0.49771	-4.98863	1.70892	-0.34344	-1.47361	0.24576	-0.00208	0.33641	0.80687	0.00755	0.75404
0.50942	-5.06469	1.70842	-0.34972	-1.46265	0.24008	-0.00206	0.33468	0.80383	0.00773	0.75750
0.52140	-5.16715	1.70997	-0.35539	-1.44845	0.23339	-0.00206	0.32629	0.80376	0.00811	0.75937
0.53367	-5.29053	1.71324	-0.36048	-1.43192	0.22706	-0.00207	0.31320	0.80589	0.00860	0.76007
0.54624	-5.42374	1.71789	-0.36511	-1.41498	0.22239	-0.00209	0.29890	0.80886	0.00906	0.76067
0.55910	-5.55701	1.72360	-0.36943	-1.39920	0.21941	-0.00212	0.28607	0.81154	0.00940	0.76192
0.57225	-5.68381	1.73016	-0.37355	-1.38567	0.21815	-0.00216	0.27614	0.81315	0.00961	0.76367
0.58569	-5.80061	1.73752	-0.37752	-1.37507	0.21891	-0.00219	0.26965	0.81329	0.00979	0.76536
0.59948	-5.90825	1.74580	-0.38140	-1.36736	0.22177	-0.00222	0.26610	0.81216	0.01000	0.76673
0.61357	-6.00969	1.75492	-0.38517	-1.36178	0.22578	-0.00225	0.26408	0.81053	0.01022	0.76799
0.62802	-6.10717	1.76481	-0.38888	-1.35773	0.23027	-0.00229	0.26277	0.80882	0.01040	0.76958
0.64280	-6.19662	1.77546	-0.39261	-1.35604	0.23646	-0.00232	0.26328	0.80642	0.01049	0.77180
0.65794	-6.27536	1.78700	-0.39638	-1.35750	0.24608	-0.00235	0.26683	0.80265	0.01045	0.77480
0.67340	-6.34502	1.79934	-0.40015	-1.36181	0.25914	-0.00239	0.27327	0.79759	0.01034	0.77821
0.68927	-6.41089	1.81220	-0.40394	-1.36777	0.27447	-0.00243	0.28153	0.79174	0.01029	0.78142
0.70547	-6.47880	1.82494	-0.40769	-1.37365	0.29003	-0.00247	0.28986	0.78581	0.01032	0.78407
0.72207	-6.55724	1.83707	-0.41133	-1.37741	0.30319	-0.00251	0.29570	0.78072	0.01045	0.78584
0.73910	-6.65485	1.84803	-0.41483	-1.37689	0.31143	-0.00253	0.29599	0.77757	0.01074	0.78592
0.75649	-6.77440	1.85722	-0.41831	-1.37090	0.31362	-0.00253	0.28948	0.77672	0.01119	0.78419
0.77429	-6.91155	1.86434	-0.42198	-1.35981	0.31060	-0.00253	0.27783	0.77751	0.01167	0.78129
0.79246	-7.05685	1.86950	-0.42599	-1.34544	0.30546	-0.00253	0.26452	0.77852	0.01214	0.77768
0.81116	-7.20398	1.87322	-0.43042	-1.32954	0.30171	-0.00253	0.25242	0.77838	0.01252	0.77409
0.83022	-7.34795	1.87615	-0.43511	-1.31358	0.30115	-0.00254	0.24308	0.77640	0.01267	0.77180
0.84976	-7.49082	1.87918	-0.43987	-1.29801	0.30327	-0.00256	0.23631	0.77273	0.01255	0.77126
0.86972	-7.63376	1.88326	-0.44450	-1.28364	0.30709	-0.00258	0.23172	0.76781	0.01241	0.77104
0.89023	-7.77807	1.88905	-0.44892	-1.27108	0.31175	-0.00261	0.22899	0.76194	0.01254	0.76936
0.91116	-7.92170	1.89648	-0.45307	-1.26067	0.31676	-0.00264	0.22801	0.75529	0.01305	0.76575
0.93257	-8.06585	1.90498	-0.45692	-1.25155	0.32127	-0.00266	0.22796	0.74827	0.01386	0.76061
0.95456	-8.21146	1.91394	-0.46051	-1.24276	0.32435	-0.00268	0.22810	0.74121	0.01484	0.75477
0.97704	-8.35625	1.92290	-0.46380	-1.23401	0.32583	-0.00269	0.22850	0.73411	0.01579	0.74966
1.00000	-8.49708	1.93168	-0.46681	-1.22552	0.32660	-0.00270	0.22989	0.72661	0.01650	0.74674
1.02354	-8.63161	1.94038	-0.46951	-1.21775	0.32793	-0.00270	0.23311	0.71834	0.01688	0.74677
1.04767	-8.75737	1.94919	-0.47190	-1.21129	0.33114	-0.00270	0.23894	0.70907	0.01691	0.74987
1.07227	-8.87353	1.95828	-0.47396	-1.20643	0.33670	-0.00270	0.24737	0.69911	0.01663	0.75558
1.09745	-8.98289	1.96779	-0.47565	-1.20281	0.34434	-0.00271	0.25751	0.68911	0.01613	0.76337
1.12334	-9.08944	1.97775	-0.47694	-1.19963	0.35320	-0.00272	0.26780	0.67996	0.01542	0.77290
1.14982	-9.19480	1.98811	-0.47780	-1.19648	0.36254	-0.00273	0.27694	0.67230	0.01457	0.78371
1.17675	-9.29810	1.99882	-0.47829	-1.19344	0.37225	-0.00275	0.28464	0.66623	0.01359	0.79546
1.20453	-9.39900	2.01006	-0.47846	-1.19096	0.38283	-0.00276	0.29156	0.66133	0.01250	0.80801
1.23289	-9.49510	2.02177	-0.47840	-1.18944	0.39447	-0.00278	0.29806	0.65739	0.01131	0.82080
1.26183	-9.58577	2.03396	-0.47821	-1.18907	0.40730	-0.00281	0.30439	0.65422	0.01009	0.83338
1.29149	-9.67141	2.04669	-0.47800	-1.18995	0.42119	-0.00283	0.31067	0.65166	0.00889	0.84528
1.32188	-9.75234	2.05993	-0.47787	-1.19207	0.43576	-0.00286	0.31693	0.64959	0.00782	0.85591
1.35300	-9.83014	2.07366	-0.47788	-1.19517	0.45021	-0.00289	0.32280	0.64807	0.00697	0.86474
1.38485	-9.90763	2.08773	-0.47800	-1.19855	0.46343	-0.00291	0.32740	0.64731	0.00637	0.87157
1.41743	-9.98752	2.10197	-0.47827	-1.20152	0.47467	-0.00293	0.32988	0.64753	0.00607	0.87643
1.45075	-10.07213	2.11626	-0.47866	-1.20353	0.48365	-0.00295	0.32952	0.64887	0.00605	0.87950
1.48500	-10.16422	2.13063	-0.47919	-1.20413	0.49018	-0.00297	0.32565	0.65155	0.00629	0.88111
1.51999	-10.26419	2.14489	-0.47987	-1.20312	0.49385	-0.00299	0.31821	0.65553	0.00673	0.88163
1.55569	-10.37230	2.15901	-0.48071	-1.20050	0.49431	-0.00300	0.30765	0.66068	0.00735	0.88148
1.59236	-10.48801	2.17305	-0.48173	-1.19665	0.49161	-0.00301	0.29513	0.66653	0.00808	0.88102
1.62973	-10.60992	2.18677	-0.48289	-1.19173	0.48545	-0.00301	0.28159	0.67263	0.00887	0.88071
1.66806	-10.73928	2.20009	-0.48416	-1.18556	0.47575	-0.00300	0.26740	0.67872	0.00963	0.88109
1.70736	-10.87559	2.21288	-0.48546	-1.17821	0.46349	-0.00298	0.25339	0.68430	0.01031	0.88263
1.74764	-11.01723	2.22505	-0.48677	-1.17007	0.45003	-0.00296	0.24075	0.68860	0.01090	0.88541
1.78859	-11.15917	2.23643	-0.48809	-1.16202	0.43734	-0.00295	0.23134	0.69043	0.01142	0.88923
1.83083	-11.30008	2.24707	-0.48947	-1.15463	0.42621	-0.00293	0.22635	0.68877	0.01188	0.89406
1.87371	-11.43675	2.25691	-0.49083	-1.14834	0.41693	-0.00292	0.22639	0.68322	0.01228	0.89980
1.91791	-11.57036	2.26626	-0.49210	-1.14345	0.40947	-0.00290	0.23206	0.67347	0.01265	0.90633
1.96309	-11.69925	2.27523	-0.49314	-1.14035	0.40405	-0.00288	0.24406	0.65958	0.01303	0.91313

2.00924	-11.82280	2.28400	-0.49380	-1.13937	0.40126	-0.00286	0.26340	0.64170	0.01349	0.91957
2.05634	-11.94045	2.29262	-0.49398	-1.14064	0.40180	-0.00284	0.29149	0.62011	0.01407	0.92514
2.10482	-12.05259	2.30109	-0.49352	-1.14420	0.40637	-0.00283	0.33068	0.59486	0.01476	0.92964
2.15424	-12.15909	2.30926	-0.49232	-1.14961	0.41489	-0.00282	0.38247	0.56687	0.01552	0.93294
2.20507	-12.26166	2.31712	-0.49030	-1.15654	0.42718	-0.00281	0.44962	0.53656	0.01635	0.93503
2.25683	-12.36063	2.32468	-0.48741	-1.16461	0.44276	-0.00281	0.53359	0.50505	0.01721	0.93590
2.31000	-12.45874	2.33222	-0.48365	-1.17357	0.46121	-0.00282	0.63673	0.47295	0.01814	0.93549
2.36463	-12.55700	2.33994	-0.47904	-1.18326	0.48234	-0.00284	0.76066	0.44102	0.01914	0.93371
2.42014	-12.65417	2.34786	-0.47371	-1.19359	0.50603	-0.00286	0.90607	0.41003	0.02022	0.93069
2.47709	-12.75048	2.35605	-0.46766	-1.20464	0.53241	-0.00289	1.07665	0.37992	0.02135	0.92682
2.53550	-12.84510	2.36439	-0.46101	-1.21628	0.56105	-0.00292	1.27452	0.35094	0.02244	0.92292
2.59471	-12.93724	2.37268	-0.45392	-1.22803	0.59067	-0.00296	1.49743	0.32360	0.02339	0.91977
2.65604	-13.03094	2.38101	-0.44631	-1.23952	0.62070	-0.00300	1.74647	0.29771	0.02420	0.91774
2.71887	-13.12726	2.38937	-0.43835	-1.25013	0.64981	-0.00304	2.01317	0.27384	0.02482	0.91704
2.78242	-13.22610	2.39766	-0.43022	-1.25949	0.67711	-0.00308	2.28854	0.25229	0.02528	0.91767
2.84819	-13.33048	2.40605	-0.42182	-1.26763	0.70275	-0.00312	2.57129	0.23262	0.02560	0.91969
2.91545	-13.43980	2.41457	-0.41335	-1.27438	0.72615	-0.00315	2.85180	0.21501	0.02577	0.92308
2.98329	-13.55190	2.42294	-0.40494	-1.27970	0.74700	-0.00318	3.12076	0.19956	0.02581	0.92764
3.05344	-13.66922	2.43153	-0.39651	-1.28389	0.76592	-0.00321	3.38119	0.18569	0.02576	0.93318
3.12598	-13.79128	2.44019	-0.38802	-1.28699	0.78301	-0.00324	3.62855	0.17337	0.02562	0.93945
3.19898	-13.91397	2.44880	-0.37980	-1.28914	0.79804	-0.00326	3.85349	0.16279	0.02544	0.94588
3.27439	-14.03998	2.45748	-0.37160	-1.29052	0.81168	-0.00328	4.06038	0.15354	0.02521	0.95228
3.35121	-14.16622	2.46616	-0.36362	-1.29138	0.82400	-0.00330	4.24610	0.14561	0.02497	0.95837
3.43053	-14.29442	2.47487	-0.35570	-1.29176	0.83530	-0.00331	4.41171	0.13884	0.02469	0.96440
3.51124	-14.42171	2.48360	-0.34808	-1.29186	0.84557	-0.00333	4.55482	0.13324	0.02439	0.97051
3.59324	-14.54768	2.49208	-0.34064	-1.29167	0.85485	-0.00334	4.67466	0.12876	0.02406	0.97706
3.67782	-14.67451	2.50089	-0.33341	-1.29140	0.86352	-0.00335	4.77642	0.12514	0.02370	0.98436
3.76506	-14.80069	2.50928	-0.32627	-1.29084	0.87135	-0.00336	4.85515	0.12253	0.02327	0.99296
3.85356	-14.92667	2.51821	-0.31941	-1.29038	0.87869	-0.00336	4.91767	0.12061	0.02283	1.00243
3.94477	-15.05064	2.52638	-0.31271	-1.28957	0.88516	-0.00337	4.95657	0.11963	0.02231	1.01299
4.03714	-15.17539	2.53523	-0.30620	-1.28884	0.89123	-0.00337	4.98038	0.11923	0.02178	1.02389
4.13223	-15.29853	2.54358	-0.29995	-1.28785	0.89661	-0.00337	4.98415	0.11957	0.02121	1.03522
4.23012	-15.42265	2.55188	-0.29375	-1.28659	0.90134	-0.00338	4.96783	0.12063	0.02059	1.04665
4.32900	-15.54719	2.56091	-0.28782	-1.28545	0.90585	-0.00338	4.94295	0.12196	0.01999	1.05732
4.43066	-15.66744	2.56850	-0.28211	-1.28383	0.90940	-0.00338	4.89771	0.12404	0.01933	1.06779
4.53515	-15.79295	2.57742	-0.27636	-1.28231	0.91289	-0.00337	4.84446	0.12641	0.01868	1.07764
4.64253	-15.91700	2.58615	-0.27086	-1.28077	0.91607	-0.00337	4.78484	0.12901	0.01804	1.08694
4.75059	-16.03470	2.59339	-0.26560	-1.27886	0.91835	-0.00337	4.71103	0.13217	0.01734	1.09590
4.86145	-16.16003	2.60277	-0.26021	-1.27729	0.92098	-0.00336	4.63745	0.13535	0.01670	1.10416
4.97760	-16.28234	2.61123	-0.25505	-1.27569	0.92332	-0.00336	4.56104	0.13870	0.01604	1.11219
5.09424	-16.39772	2.61821	-0.25007	-1.27386	0.92493	-0.00335	4.47631	0.14247	0.01534	1.12000
5.21376	-16.52307	2.62796	-0.24487	-1.27250	0.92712	-0.00335	4.39530	0.14613	0.01470	1.12722
5.33618	-16.64175	2.63649	-0.24004	-1.27121	0.92908	-0.00334	4.31864	0.14967	0.01407	1.13416
5.46150	-16.75134	2.64267	-0.23541	-1.26962	0.93024	-0.00334	4.23523	0.15362	0.01337	1.14135
5.58971	-16.87305	2.65195	-0.23042	-1.26844	0.93196	-0.00333	4.15409	0.15750	0.01271	1.14828
5.72082	-16.99485	2.66183	-0.22561	-1.26760	0.93402	-0.00332	4.08228	0.16103	0.01212	1.15502
5.85823	-17.09990	2.66729	-0.22128	-1.26636	0.93499	-0.00331	4.00695	0.16487	0.01144	1.16252
5.99520	-17.21061	2.67454	-0.21669	-1.26533	0.93612	-0.00330	3.93123	0.16878	0.01076	1.17002
6.13497	-17.33499	2.68544	-0.21177	-1.26484	0.93813	-0.00329	3.86288	0.17235	0.01017	1.17726
6.28141	-17.44447	2.69288	-0.20749	-1.26425	0.93963	-0.00328	3.80143	0.17570	0.00959	1.18481
6.42674	-17.53645	2.69665	-0.20366	-1.26337	0.94014	-0.00328	3.73833	0.17925	0.00895	1.19271
6.57895	-17.64747	2.70446	-0.19911	-1.26286	0.94136	-0.00327	3.67401	0.18288	0.00832	1.20078
6.73401	-17.77280	2.71605	-0.19421	-1.26287	0.94351	-0.00325	3.61758	0.18611	0.00779	1.20852
6.89180	-17.87001	2.72169	-0.19049	-1.26260	0.94470	-0.00324	3.57033	0.18895	0.00728	1.21634
7.05716	-17.95272	2.72346	-0.18711	-1.26197	0.94490	-0.00324	3.51908	0.19212	0.00669	1.22479
7.22022	-18.05067	2.72935	-0.18312	-1.26175	0.94582	-0.00323	3.46937	0.19519	0.00616	1.23273
7.39098	-18.17246	2.74046	-0.17830	-1.26204	0.94781	-0.00321	3.42234	0.19811	0.00568	1.24031
7.56430	-18.27509	2.74791	-0.17451	-1.26225	0.94942	-0.00320	3.38619	0.20045	0.00527	1.24731
7.73994	-18.33475	2.74585	-0.17234	-1.26174	0.94912	-0.00319	3.35170	0.20280	0.00481	1.25428
7.92393	-18.41070	2.74699	-0.16940	-1.26146	0.94926	-0.00318	3.31357	0.20537	0.00434	1.26099
8.11030	-18.50411	2.75222	-0.16573	-1.26156	0.95012	-0.00317	3.27604	0.20790	0.00390	1.26707
8.29876	-18.62189	2.76322	-0.16114	-1.26219	0.95214	-0.00316	3.24173	0.21021	0.00353	1.27239
8.49618	-18.69953	2.76553	-0.15862	-1.26229	0.95288	-0.00315	3.21739	0.21197	0.00321	1.27742
8.69565	-18.72811	2.75732	-0.15820	-1.26162	0.95167	-0.00314	3.19563	0.21363	0.00285	1.28251
8.90472	-18.78109	2.75405	-0.15664	-1.26131	0.95121	-0.00313	3.17006	0.21550	0.00249	1.28757
9.11577	-18.84296	2.75299	-0.15471	-1.26120	0.95114	-0.00312	3.14512	0.21732	0.00215	1.29245
9.32836	-18.94046	2.75972	-0.15099	-1.26166	0.95225	-0.00311	3.11672	0.21934	0.00180	1.29728
9.54198	-19.02572	2.76449	-0.14817	-1.26210	0.95331	-0.00310	3.09666	0.22085	0.00155	1.30188
9.76563	-19.02520	2.75127	-0.14999	-1.26135	0.95181	-0.00310	3.09122	0.22142	0.00137	1.30678
10.00000	-19.01718	2.73629	-0.15230	-1.26050	0.95008	-0.00309	3.08610	0.22197	0.00120	1.31236

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
High stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 305 - 610 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-0.02031	2.54889	-0.23887	-3.07833	1.00366	-0.00038	10.47086	0.27298	0.01743	0.28764
PGV	13.10255	2.08967	-0.15261	-4.62246	1.08806	0.00137	26.64179	0.23414	-0.00324	0.41392
PGA	7.56200	1.78373	-0.05842	-3.82961	0.45386	0.00043	11.59892	0.43390	-0.02725	0.76308
0.01000	7.25744	1.79720	-0.05558	-3.77197	0.41562	0.00037	11.20215	0.44376	-0.01700	0.75033
0.01024	7.24626	1.79770	-0.05526	-3.76973	0.41373	0.00037	11.17657	0.44432	-0.01703	0.75079
0.01048	7.24083	1.79815	-0.05496	-3.76846	0.41209	0.00037	11.16083	0.44476	-0.01706	0.75123
0.01072	7.24079	1.79857	-0.05466	-3.76811	0.41065	0.00037	11.15424	0.44508	-0.01710	0.75166
0.01097	7.24594	1.79896	-0.05436	-3.76863	0.40939	0.00037	11.15640	0.44531	-0.01714	0.75208
0.01123	7.25620	1.79933	-0.05406	-3.77000	0.40829	0.00037	11.16707	0.44543	-0.01719	0.75249
0.01150	7.27169	1.79968	-0.05376	-3.77226	0.40733	0.00038	11.18642	0.44546	-0.01725	0.75291
0.01177	7.29260	1.80003	-0.05345	-3.77541	0.40650	0.00038	11.21470	0.44540	-0.01732	0.75334
0.01205	7.31920	1.80036	-0.05314	-3.77951	0.40579	0.00038	11.25238	0.44524	-0.01739	0.75378
0.01233	7.35191	1.80069	-0.05282	-3.78462	0.40519	0.00039	11.30011	0.44498	-0.01748	0.75425
0.01262	7.39103	1.80102	-0.05248	-3.79079	0.40470	0.00039	11.35844	0.44462	-0.01757	0.75476
0.01292	7.43693	1.80135	-0.05213	-3.79806	0.40429	0.00040	11.42799	0.44415	-0.01769	0.75533
0.01322	7.49022	1.80169	-0.05175	-3.80654	0.40397	0.00041	11.50981	0.44358	-0.01781	0.75598
0.01353	7.55169	1.80204	-0.05136	-3.81636	0.40372	0.00041	11.60519	0.44289	-0.01795	0.75671
0.01385	7.62217	1.80241	-0.05093	-3.82763	0.40355	0.00042	11.71571	0.44208	-0.01811	0.75757
0.01417	7.70311	1.80280	-0.05046	-3.84058	0.40347	0.00043	11.84400	0.44113	-0.01829	0.75858
0.01451	7.79613	1.80321	-0.04996	-3.85550	0.40347	0.00045	11.99296	0.44002	-0.01850	0.75977
0.01485	7.90271	1.80368	-0.04940	-3.87261	0.40355	0.00046	12.16514	0.43873	-0.01873	0.76117
0.01520	8.02310	1.80420	-0.04880	-3.89195	0.40368	0.00048	12.36118	0.43729	-0.01899	0.76279
0.01556	8.15750	1.80478	-0.04813	-3.91353	0.40385	0.00050	12.58179	0.43569	-0.01927	0.76466
0.01592	8.30673	1.80542	-0.04740	-3.93747	0.40412	0.00052	12.82896	0.43393	-0.01959	0.76682
0.01630	8.47249	1.80610	-0.04659	-3.96400	0.40449	0.00054	13.10643	0.43199	-0.01995	0.76930
0.01668	8.65861	1.80681	-0.04570	-3.99373	0.40489	0.00056	13.42174	0.42984	-0.02035	0.77218
0.01707	8.86588	1.80757	-0.04473	-4.02676	0.40519	0.00059	13.77679	0.42748	-0.02080	0.77541
0.01748	9.09027	1.80833	-0.04368	-4.06237	0.40522	0.00062	14.16456	0.42500	-0.02129	0.77895
0.01789	9.32630	1.80904	-0.04255	-4.09957	0.40493	0.00065	14.57596	0.42248	-0.02181	0.78279
0.01831	9.56707	1.80972	-0.04130	-4.13719	0.40449	0.00068	15.00024	0.42002	-0.02235	0.78679
0.01874	9.80350	1.81050	-0.03992	-4.17378	0.40408	0.00071	15.42169	0.41773	-0.02288	0.79069
0.01918	10.03506	1.81154	-0.03838	-4.20933	0.40387	0.00073	15.83947	0.41562	-0.02339	0.79452
0.01963	10.26211	1.81294	-0.03666	-4.24394	0.40431	0.00075	16.25551	0.41366	-0.02393	0.79852
0.02009	10.48028	1.81457	-0.03481	-4.27691	0.40522	0.00076	16.65994	0.41189	-0.02447	0.80264
0.02057	10.68829	1.81606	-0.03293	-4.30786	0.40559	0.00077	17.04684	0.41034	-0.02501	0.80679
0.02105	10.87736	1.81721	-0.03105	-4.33513	0.40458	0.00078	17.39702	0.40914	-0.02559	0.81120
0.02154	11.02782	1.81805	-0.02911	-4.35540	0.40194	0.00079	17.67101	0.40854	-0.02622	0.81604
0.02205	11.13144	1.81910	-0.02710	-4.36770	0.39792	0.00079	17.84786	0.40869	-0.02683	0.82072
0.02257	11.20155	1.82065	-0.02503	-4.37459	0.39320	0.00078	17.95164	0.40941	-0.02730	0.82450
0.02310	11.26433	1.82268	-0.02290	-4.38054	0.38873	0.00077	18.03781	0.41028	-0.02768	0.82770
0.02364	11.31853	1.82527	-0.02077	-4.38556	0.38454	0.00076	18.10001	0.41135	-0.02808	0.83102
0.02420	11.33166	1.82856	-0.01865	-4.38434	0.37992	0.00075	18.06896	0.41307	-0.02843	0.83401
0.02477	11.29622	1.83224	-0.01644	-4.37531	0.37448	0.00072	17.93599	0.41550	-0.02864	0.83609
0.02535	11.22383	1.83594	-0.01409	-4.35986	0.36851	0.00069	17.73621	0.41842	-0.02879	0.83769
0.02595	11.10500	1.83961	-0.01164	-4.33649	0.36264	0.00065	17.45329	0.42191	-0.02893	0.83934
0.02656	10.92982	1.84279	-0.00912	-4.30355	0.35705	0.00060	17.07103	0.42602	-0.02907	0.84111
0.02719	10.72738	1.84544	-0.00659	-4.26588	0.35167	0.00054	16.64784	0.43038	-0.02920	0.84280
0.02783	10.51896	1.84850	-0.00407	-4.22750	0.34575	0.00049	16.21444	0.43498	-0.02921	0.84371
0.02848	10.29321	1.85252	-0.00157	-4.18677	0.33810	0.00044	15.73970	0.44018	-0.02903	0.84345
0.02915	10.04580	1.85752	0.00089	-4.14313	0.32884	0.00038	15.21788	0.44603	-0.02874	0.84233
0.02984	9.74575	1.86287	0.00343	-4.09124	0.31894	0.00032	14.60428	0.45282	-0.02842	0.84114
0.03054	9.40542	1.86773	0.00616	-4.03260	0.30922	0.00026	13.93549	0.46022	-0.02816	0.84039
0.03126	9.08964	1.87230	0.00899	-3.97786	0.30000	0.00019	13.32831	0.46734	-0.02784	0.83930
0.03199	8.80309	1.87742	0.01185	-3.92812	0.29080	0.00014	12.78189	0.47429	-0.02739	0.83746
0.03275	8.51579	1.88358	0.01471	-3.87886	0.28210	0.00008	12.24602	0.48147	-0.02690	0.83552
0.03352	8.21065	1.89036	0.01772	-3.82705	0.27407	0.00001	11.70088	0.48901	-0.02650	0.83408
0.03430	7.89436	1.89694	0.02090	-3.77326	0.26636	-0.00006	11.15994	0.49675	-0.02621	0.83324
0.03511	7.56107	1.90199	0.02403	-3.71594	0.25754	-0.00013	10.60333	0.50484	-0.02607	0.83345
0.03594	7.19751	1.90546	0.02704	-3.65301	0.24727	-0.00019	10.00665	0.51366	-0.02603	0.83434
0.03678	6.81292	1.90878	0.02992	-3.58698	0.23571	-0.00025	9.38424	0.52329	-0.02603	0.83561
0.03765	6.41662	1.91308	0.03266	-3.52014	0.22306	-0.00030	8.75227	0.53375	-0.02585	0.83587
0.03854	6.02431	1.91844	0.03547	-3.45498	0.21138	-0.00036	8.14897	0.54449	-0.02536	0.83416
0.03944	5.67374	1.92561	0.03834	-3.39802	0.20157	-0.00042	7.62965	0.55466	-0.02474	0.83159
0.04037	5.36368	1.93474	0.04108	-3.34907	0.19143	-0.00047	7.18074	0.56446	-0.02414	0.82915
0.04132	5.03045	1.94302	0.04369	-3.29579	0.17846	-0.00052	6.71032	0.57523	-0.02364	0.82715
0.04229	4.68075	1.94724	0.04591	-3.23748	0.16339	-0.00055	6.22641	0.58659	-0.02327	0.82591
0.04329	4.37793	1.94786	0.04742	-3.18481	0.14822	-0.00057	5.81017	0.59688	-0.02286	0.82419
0.04431	4.14129	1.94934	0.04877	-3.14376	0.13591	-0.00059	5.49045	0.60552	-0.02219	0.82058
0.04535	3.94865	1.95508	0.05064	-3.11301	0.12989	-0.00062	5.24775	0.61282	-0.02126	0.81531

0.04642	3.79135	1.96262	0.05260	-3.08967	0.12901	-0.00066	5.06057	0.61888	-0.02032	0.80998
0.04751	3.66328	1.96831	0.05394	-3.07012	0.12822	-0.00069	4.90464	0.62412	-0.01950	0.80527
0.04863	3.54369	1.97182	0.05436	-3.05041	0.12293	-0.00069	4.74861	0.62954	-0.01874	0.80085
0.04977	3.42616	1.97441	0.05403	-3.03058	0.11437	-0.00069	4.59019	0.63522	-0.01811	0.79715
0.05094	3.29791	1.97597	0.05336	-3.00854	0.10431	-0.00069	4.42168	0.64123	-0.01785	0.79584
0.05214	3.14235	1.97779	0.05299	-2.98192	0.09310	-0.00068	4.23088	0.64822	-0.01797	0.79708
0.05337	2.96676	1.98095	0.05312	-2.95256	0.08188	-0.00069	4.03023	0.65600	-0.01821	0.79895
0.05462	2.77851	1.98313	0.05333	-2.92023	0.07075	-0.00070	3.82534	0.66419	-0.01849	0.80095
0.05591	2.61424	1.98325	0.05289	-2.89060	0.06002	-0.00070	3.64467	0.67166	-0.01871	0.80237
0.05722	2.47102	1.98330	0.05195	-2.86448	0.04830	-0.00069	3.48323	0.67878	-0.01869	0.80210
0.05857	2.31398	1.98375	0.05108	-2.83626	0.03458	-0.00068	3.31259	0.68671	-0.01836	0.80016
0.05995	2.14551	1.98493	0.05063	-2.80665	0.02202	-0.00068	3.14426	0.69485	-0.01783	0.79716
0.06136	1.99230	1.98590	0.05037	-2.77998	0.01405	-0.00069	3.00349	0.70168	-0.01727	0.79390
0.06280	1.87531	1.98586	0.04975	-2.75937	0.01081	-0.00071	2.90005	0.70653	-0.01672	0.79076
0.06428	1.79293	1.98456	0.04860	-2.74422	0.01040	-0.00072	2.82432	0.70986	-0.01640	0.78921
0.06579	1.71711	1.98226	0.04725	-2.72994	0.01186	-0.00073	2.75348	0.71276	-0.01637	0.78978
0.06734	1.63681	1.97887	0.04575	-2.71452	0.01531	-0.00074	2.68286	0.71540	-0.01656	0.79191
0.06893	1.54368	1.97392	0.04416	-2.69591	0.01999	-0.00075	2.60837	0.71797	-0.01673	0.79398
0.07055	1.46068	1.96798	0.04205	-2.67805	0.02398	-0.00077	2.54144	0.72022	-0.01662	0.79424
0.07221	1.39152	1.96289	0.03952	-2.66277	0.02459	-0.00077	2.47703	0.72288	-0.01630	0.79331
0.07391	1.28099	1.95949	0.03748	-2.64119	0.01996	-0.00076	2.37879	0.72815	-0.01601	0.79251
0.07565	1.12300	1.95825	0.03613	-2.61284	0.01204	-0.00077	2.25015	0.73591	-0.01578	0.79169
0.07743	0.98645	1.95842	0.03445	-2.58964	0.00464	-0.00076	2.13799	0.74309	-0.01559	0.79082
0.07925	0.88137	1.95814	0.03206	-2.57181	-0.00252	-0.00076	2.04894	0.74895	-0.01554	0.79063
0.08111	0.77048	1.95432	0.02899	-2.54984	-0.01342	-0.00074	1.95762	0.75511	-0.01572	0.79189
0.08302	0.64184	1.94785	0.02599	-2.52192	-0.02643	-0.00072	1.86076	0.76191	-0.01610	0.79438
0.08498	0.52290	1.94213	0.02372	-2.49600	-0.03334	-0.00072	1.78283	0.76736	-0.01653	0.79745
0.08697	0.46725	1.93680	0.02127	-2.48142	-0.03137	-0.00074	1.75180	0.76887	-0.01678	0.79962
0.08902	0.47853	1.93232	0.01827	-2.47895	-0.02435	-0.00074	1.76202	0.76709	-0.01654	0.79884
0.09112	0.49010	1.92933	0.01539	-2.47780	-0.01783	-0.00075	1.76839	0.76588	-0.01592	0.79605
0.09326	0.45442	1.92672	0.01316	-2.46949	-0.01336	-0.00075	1.74260	0.76721	-0.01534	0.79380
0.09545	0.38500	1.92530	0.01154	-2.45722	-0.00807	-0.00077	1.70089	0.76965	-0.01500	0.79314
0.09770	0.30761	1.92459	0.00971	-2.44467	-0.00365	-0.00078	1.65734	0.77224	-0.01505	0.79484
0.10000	0.20917	1.92293	0.00737	-2.42744	-0.00488	-0.00079	1.60053	0.77622	-0.01529	0.79781
0.10235	0.09726	1.91929	0.00432	-2.40595	-0.01220	-0.00078	1.53269	0.78149	-0.01537	0.80019
0.10476	-0.00382	1.91354	0.00027	-2.38490	-0.02322	-0.00076	1.46373	0.78707	-0.01516	0.80085
0.10723	-0.13058	1.90758	-0.00393	-2.35919	-0.03808	-0.00073	1.37717	0.79495	-0.01474	0.80030
0.10975	-0.26642	1.90158	-0.00821	-2.33167	-0.05514	-0.00070	1.28548	0.80413	-0.01426	0.79914
0.11233	-0.39458	1.89485	-0.01236	-2.30435	-0.07267	-0.00066	1.20245	0.81304	-0.01370	0.79725
0.11498	-0.53199	1.88779	-0.01583	-2.27420	-0.08912	-0.00064	1.12574	0.82183	-0.01310	0.79489
0.11768	-0.66426	1.87955	-0.01905	-2.24400	-0.10121	-0.00063	1.06089	0.82918	-0.01255	0.79258
0.12045	-0.77486	1.87154	-0.02238	-2.21834	-0.10748	-0.00063	1.01208	0.83434	-0.01205	0.79024
0.12328	-0.84013	1.86667	-0.02589	-2.20327	-0.10818	-0.00064	0.98824	0.83638	-0.01156	0.78763
0.12619	-0.85308	1.86409	-0.02960	-2.19935	-0.10342	-0.00065	0.99148	0.83457	-0.01128	0.78619
0.12916	-0.84146	1.86001	-0.03356	-2.19886	-0.09561	-0.00067	1.00744	0.83044	-0.01159	0.78852
0.13219	-0.84680	1.85291	-0.03781	-2.19303	-0.08975	-0.00068	1.01473	0.82716	-0.01255	0.79536
0.13531	-0.88016	1.84538	-0.04255	-2.18195	-0.08982	-0.00068	1.00452	0.82659	-0.01354	0.80261
0.13849	-0.94189	1.83933	-0.04753	-2.16749	-0.09509	-0.00066	0.97580	0.82915	-0.01391	0.80585
0.14175	-1.04336	1.83335	-0.05204	-2.14681	-0.10278	-0.00064	0.92603	0.83496	-0.01368	0.80480
0.14508	-1.19148	1.82538	-0.05562	-2.11682	-0.11048	-0.00063	0.85799	0.84357	-0.01321	0.80158
0.14850	-1.35561	1.81603	-0.05899	-2.08284	-0.11792	-0.00062	0.78765	0.85307	-0.01269	0.79732
0.15199	-1.49147	1.80737	-0.06315	-2.05424	-0.12330	-0.00062	0.73263	0.86064	-0.01191	0.79110
0.15557	-1.59499	1.80253	-0.06730	-2.03450	-0.12010	-0.00063	0.69944	0.86449	-0.01101	0.78415
0.15923	-1.65635	1.79948	-0.07185	-2.02390	-0.11092	-0.00066	0.68651	0.86435	-0.01039	0.77938
0.16298	-1.72474	1.79623	-0.07687	-2.01179	-0.10874	-0.00066	0.66723	0.86609	-0.01013	0.77729
0.16681	-1.79819	1.79248	-0.08218	-1.99825	-0.11247	-0.00065	0.64170	0.86971	-0.01001	0.77651
0.17074	-1.83780	1.79065	-0.08713	-1.99223	-0.10994	-0.00064	0.62996	0.87050	-0.00991	0.77626
0.17475	-1.83552	1.79303	-0.09122	-1.99734	-0.09438	-0.00066	0.63944	0.86642	-0.00982	0.77618
0.17887	-1.80725	1.79885	-0.09473	-2.01026	-0.06774	-0.00072	0.66588	0.85842	-0.00980	0.77648
0.18307	-1.74749	1.80312	-0.09889	-2.02806	-0.03621	-0.00078	0.70657	0.84714	-0.00989	0.77716
0.18738	-1.68321	1.80509	-0.10379	-2.04511	-0.00624	-0.00083	0.74970	0.83565	-0.00983	0.77693
0.19179	-1.62905	1.80542	-0.10939	-2.05879	0.01786	-0.00087	0.78827	0.82574	-0.00956	0.77579
0.19631	-1.60101	1.80344	-0.11521	-2.06536	0.03263	-0.00088	0.81345	0.81878	-0.00928	0.77487
0.20092	-1.63241	1.79973	-0.12010	-2.05914	0.03896	-0.00089	0.81358	0.81641	-0.00890	0.77365
0.20565	-1.71142	1.79545	-0.12392	-2.04323	0.04351	-0.00092	0.79718	0.81684	-0.00851	0.77282
0.21049	-1.78039	1.79066	-0.12783	-2.02832	0.05093	-0.00095	0.78735	0.81587	-0.00833	0.77363
0.21544	-1.83555	1.78738	-0.13197	-2.01693	0.06412	-0.00101	0.78764	0.81292	-0.00822	0.77492
0.22051	-1.88369	1.78537	-0.13665	-2.00800	0.08160	-0.00108	0.79283	0.80899	-0.00813	0.77646
0.22570	-1.94608	1.78433	-0.14157	-1.99756	0.09825	-0.00115	0.79125	0.80639	-0.00817	0.77904
0.23101	-2.01729	1.78428	-0.14650	-1.98659	0.11309	-0.00121	0.78457	0.80496	-0.00823	0.78164
0.23645	-2.07262	1.78531	-0.15182	-1.97963	0.12860	-0.00126	0.78329	0.80286	-0.00802	0.78232
0.24201	-2.10562	1.78695	-0.15762	-1.97730	0.14442	-0.00129	0.79032	0.79951	-0.00757	0.78148
0.24771	-2.14217	1.78707	-0.16365	-1.97297	0.15577	-0.00132	0.79396	0.79676	-0.00700	0.78004
0.25354	-2.19075	1.78383	-0.16993	-1.96360	0.16045	-0.00133	0.78928	0.79517	-0.00628	0.77746
0.25950	-2.25171	1.77977	-0.17613	-1.95124	0.16197	-0.00134	0.77907	0.79447	-0.00537	0.77352
0.26561	-2.31032	1.77820	-0.18193	-1.94162	0.16566	-0.00134	0.77111	0.79360	-0.00455	0.77004
0.27186	-2.36625	1.78038	-0.18694	-1.93617	0.17273	-0.00136	0.76547	0.79266	-0.00411	0.76893
0.27826	-2.41442	1.78419	-0.19150	-1.93420	0.18137	-0.00139	0.76324	0.79110	-0.00393	0.76949
0.28480	-2.46028	1.78685	-0.19619	-1.93211	0.19067	-0.00141	0.76245	0.78889	-0.00386	0.77090
0.29150	-2.50902	1.78689	-0.20151	-1.92729	0.19938	-0.00143	0.76018	0.78651	-0.00388	0.77292
0.29836	-2.57264	1.78526	-0.20738	-1.91784	0.20316	-0.00144	0.74959	0.78573	-0.00378	0.77422

0.30539	-2.64256	1.78441	-0.21339	-1.90725	0.20201	-0.00144	0.73556	0.78616	-0.00350	0.77412
0.31257	-2.69178	1.78565	-0.21937	-1.90171	0.20101	-0.00143	0.73317	0.78496	-0.00316	0.77334
0.31993	-2.71412	1.78845	-0.22554	-1.90241	0.20208	-0.00142	0.74646	0.78102	-0.00276	0.77181
0.32745	-2.72557	1.79100	-0.23206	-1.90559	0.20454	-0.00142	0.76724	0.77542	-0.00219	0.76887
0.33517	-2.73962	1.79225	-0.23863	-1.90821	0.21248	-0.00143	0.79044	0.76865	-0.00144	0.76492
0.34304	-2.76236	1.79356	-0.24458	-1.90988	0.23030	-0.00147	0.81491	0.76116	-0.00080	0.76190
0.35112	-2.79419	1.79625	-0.24979	-1.91100	0.25343	-0.00153	0.83881	0.75393	-0.00053	0.76126
0.35938	-2.83333	1.80012	-0.25455	-1.91125	0.27204	-0.00158	0.85921	0.74798	-0.00051	0.76192
0.36784	-2.88699	1.80425	-0.25918	-1.90849	0.28133	-0.00161	0.87071	0.74408	-0.00048	0.76178
0.37649	-2.97192	1.80792	-0.26381	-1.89936	0.28134	-0.00163	0.86388	0.74328	-0.00031	0.76005
0.38536	-3.10652	1.80971	-0.26857	-1.87989	0.27443	-0.00163	0.82896	0.74660	0.00009	0.75695
0.39442	-3.29584	1.80864	-0.27341	-1.84865	0.26379	-0.00164	0.76581	0.75418	0.00077	0.75268
0.40370	-3.51218	1.80504	-0.27848	-1.81073	0.25136	-0.00165	0.69156	0.76410	0.00153	0.74865
0.41321	-3.71969	1.79989	-0.28400	-1.77315	0.23856	-0.00165	0.62522	0.77347	0.00211	0.74610
0.42292	-3.90262	1.79535	-0.28978	-1.74056	0.22969	-0.00164	0.57586	0.78025	0.00249	0.74485
0.43288	-4.05944	1.79411	-0.29533	-1.71570	0.23051	-0.00167	0.54506	0.78351	0.00268	0.74486
0.44307	-4.18253	1.79734	-0.30037	-1.70114	0.24412	-0.00172	0.53357	0.78266	0.00264	0.74665
0.45349	-4.27091	1.80374	-0.30507	-1.69569	0.26599	-0.00179	0.53766	0.77847	0.00241	0.75001
0.46417	-4.34364	1.81061	-0.30975	-1.69316	0.28705	-0.00186	0.54579	0.77371	0.00225	0.75316
0.47508	-4.41684	1.81595	-0.31468	-1.68869	0.30201	-0.00191	0.54909	0.77030	0.00236	0.75481
0.48626	-4.48392	1.81935	-0.32011	-1.68323	0.31223	-0.00194	0.55066	0.76727	0.00273	0.75520
0.49771	-4.53845	1.82171	-0.32603	-1.67906	0.32185	-0.00197	0.55579	0.76326	0.00335	0.75453
0.50942	-4.59379	1.82391	-0.33198	-1.67480	0.33456	-0.00201	0.56256	0.75851	0.00417	0.75295
0.52140	-4.66650	1.82594	-0.33768	-1.66735	0.35147	-0.00208	0.56631	0.75392	0.00506	0.75106
0.53367	-4.75451	1.82754	-0.34327	-1.65686	0.37167	-0.00217	0.56750	0.74937	0.00580	0.74990
0.54624	-4.84519	1.82876	-0.34900	-1.64590	0.39274	-0.00226	0.56904	0.74440	0.00615	0.75087
0.55910	-4.93915	1.83014	-0.35474	-1.63492	0.40991	-0.00233	0.56864	0.73992	0.00609	0.75430
0.57225	-5.04978	1.83165	-0.36012	-1.62114	0.41792	-0.00238	0.55955	0.73774	0.00572	0.75979
0.58569	-5.17685	1.83274	-0.36517	-1.60379	0.41557	-0.00239	0.54188	0.73789	0.00513	0.76684
0.59948	-5.30200	1.83347	-0.37037	-1.58645	0.40667	-0.00237	0.52407	0.73833	0.00454	0.77409
0.61357	-5.40658	1.83477	-0.37592	-1.57376	0.39610	-0.00233	0.51416	0.73708	0.00410	0.78038
0.62802	-5.48556	1.83804	-0.38170	-1.56814	0.38672	-0.00228	0.51510	0.73346	0.00388	0.78522
0.64280	-5.54637	1.84369	-0.38757	-1.56838	0.37893	-0.00223	0.52468	0.72815	0.00395	0.78810
0.65794	-5.60007	1.85067	-0.39350	-1.57099	0.37263	-0.00219	0.53911	0.72202	0.00417	0.79022
0.67340	-5.65206	1.85818	-0.39944	-1.57401	0.36888	-0.00215	0.55625	0.71550	0.00437	0.79274
0.68927	-5.70865	1.86616	-0.40524	-1.57645	0.36893	-0.00213	0.57394	0.70900	0.00463	0.79525
0.70547	-5.78165	1.87433	-0.41052	-1.57588	0.37272	-0.00212	0.58680	0.70356	0.00497	0.79739
0.72207	-5.87961	1.88237	-0.41501	-1.57042	0.37983	-0.00214	0.59081	0.69981	0.00526	0.79959
0.73910	-5.99650	1.88985	-0.41880	-1.56077	0.38941	-0.00218	0.58789	0.69725	0.00542	0.80241
0.75649	-6.11778	1.89671	-0.42219	-1.54969	0.40073	-0.00223	0.58365	0.69474	0.00544	0.80549
0.77429	-6.23848	1.90356	-0.42535	-1.53877	0.41295	-0.00228	0.58007	0.69202	0.00552	0.80745
0.79246	-6.36401	1.91093	-0.42814	-1.52753	0.42545	-0.00234	0.57469	0.68981	0.00577	0.80720
0.81116	-6.50196	1.91920	-0.43051	-1.51501	0.43837	-0.00242	0.56495	0.68864	0.00628	0.80446
0.83022	-6.64603	1.92824	-0.43256	-1.50240	0.45229	-0.00249	0.55332	0.68796	0.00695	0.80014
0.84976	-6.78742	1.93754	-0.43453	-1.49117	0.46606	-0.00257	0.54356	0.68671	0.00753	0.79612
0.86972	-6.92053	1.94650	-0.43670	-1.48188	0.47695	-0.00262	0.53732	0.68440	0.00793	0.79331
0.89023	-7.04575	1.95490	-0.43917	-1.47437	0.48398	-0.00265	0.53472	0.68087	0.00820	0.79164
0.91116	-7.16520	1.96273	-0.44195	-1.46807	0.48709	-0.00266	0.53415	0.67656	0.00844	0.79076
0.93257	-7.28640	1.97015	-0.44485	-1.46145	0.48646	-0.00265	0.53191	0.67247	0.00868	0.79037
0.95456	-7.41600	1.97729	-0.44767	-1.45303	0.48220	-0.00263	0.52465	0.66956	0.00882	0.79111
0.97704	-7.55404	1.98437	-0.45031	-1.44270	0.47540	-0.00260	0.51213	0.66805	0.00876	0.79358
1.00000	-7.69591	1.99177	-0.45283	-1.43168	0.46812	-0.00258	0.49732	0.66732	0.00857	0.79699
1.02354	-7.83521	1.99980	-0.45528	-1.42154	0.46227	-0.00256	0.48469	0.66626	0.00844	0.80000
1.04767	-7.96930	2.00834	-0.45759	-1.41270	0.45849	-0.00255	0.47618	0.66425	0.00844	0.80203
1.07227	-8.09988	2.01715	-0.45960	-1.40457	0.45636	-0.00255	0.47068	0.66152	0.00854	0.80346
1.09745	-8.23176	2.02635	-0.46125	-1.39639	0.45541	-0.00255	0.46582	0.65875	0.00868	0.80509
1.12334	-8.36883	2.03622	-0.46257	-1.38778	0.45566	-0.00255	0.45989	0.65642	0.00877	0.80767
1.14982	-8.51663	2.04661	-0.46367	-1.37739	0.45625	-0.00257	0.45032	0.65520	0.00878	0.81143
1.17675	-8.68180	2.05688	-0.46470	-1.36327	0.45522	-0.00260	0.43440	0.65566	0.00876	0.81569
1.20453	-8.87056	2.06658	-0.46578	-1.34394	0.45028	-0.00264	0.41100	0.65793	0.00876	0.81996
1.23289	-9.07400	2.07556	-0.46693	-1.32113	0.44152	-0.00267	0.38415	0.66104	0.00866	0.82468
1.26183	-9.27837	2.08421	-0.46808	-1.29829	0.43171	-0.00270	0.35999	0.66314	0.00832	0.83063
1.29149	-9.47418	2.09302	-0.46911	-1.27818	0.42427	-0.00274	0.34267	0.66261	0.00770	0.83808
1.32188	-9.65854	2.10235	-0.46986	-1.26203	0.42149	-0.00278	0.33322	0.65878	0.00695	0.84623
1.35300	-9.83445	2.11231	-0.47017	-1.24938	0.42410	-0.00283	0.33061	0.65182	0.00632	0.85359
1.38485	-10.00810	2.12274	-0.47004	-1.23854	0.43080	-0.00288	0.33252	0.64261	0.00602	0.85896
1.41743	-10.18294	2.13345	-0.46955	-1.22830	0.43986	-0.00294	0.33747	0.63180	0.00619	0.86173
1.45075	-10.35650	2.14445	-0.46882	-1.21902	0.45025	-0.00300	0.34622	0.61936	0.00684	0.86185
1.48500	-10.52230	2.15589	-0.46792	-1.21228	0.46233	-0.00305	0.36193	0.60446	0.00776	0.86046
1.51999	-10.67264	2.16768	-0.46681	-1.20945	0.47659	-0.00309	0.38776	0.58671	0.00862	0.85955
1.55569	-10.80541	2.17972	-0.46545	-1.21074	0.49368	-0.00313	0.42554	0.56638	0.00922	0.86044
1.59236	-10.92230	2.19204	-0.46382	-1.21570	0.51419	-0.00316	0.47667	0.54403	0.00955	0.86319
1.62973	-11.02542	2.20454	-0.46199	-1.22341	0.53734	-0.00320	0.54096	0.52078	0.00973	0.86715
1.66806	-11.11768	2.21728	-0.45999	-1.23320	0.56221	-0.00323	0.61895	0.49730	0.00985	0.87199
1.70736	-11.20203	2.23029	-0.45786	-1.24430	0.58719	-0.00326	0.70917	0.47456	0.00991	0.87780
1.74764	-11.28159	2.24361	-0.45563	-1.25595	0.61103	-0.00328	0.80848	0.45339	0.00990	0.88487
1.78859	-11.35776	2.25712	-0.45335	-1.26758	0.63328	-0.00329	0.91260	0.43443	0.00976	0.89336
1.83083	-11.43271	2.27104	-0.45104	-1.27914	0.65424	-0.00330	1.02001	0.41756	0.00947	0.90349
1.87371	-11.50642	2.28514	-0.44876	-1.29022	0.67351	-0.00331	1.12541	0.40318	0.00906	0.91487
1.91791	-11.58108	2.29958	-0.44652	-1.30081	0.69132	-0.00331	1.22692	0.39103	0.00854	0.92726
1.96309	-11.65667	2.31421	-0.44438	-1.31069	0.70743	-0.00331	1.32098	0.38110	0.00800	0.93997

2.00924	-11.73404	2.32896	-0.44241	-1.31970	0.72160	-0.00330	1.40517	0.37319	0.00748	0.95233
2.05634	-11.81325	2.34375	-0.44062	-1.32784	0.73364	-0.00330	1.47863	0.36704	0.00703	0.96382
2.10482	-11.89453	2.35862	-0.43903	-1.33525	0.74357	-0.00328	1.54230	0.36228	0.00669	0.97414
2.15424	-11.97654	2.37337	-0.43768	-1.34200	0.75134	-0.00326	1.59666	0.35866	0.00645	0.98298
2.20507	-12.05967	2.38811	-0.43655	-1.34825	0.75706	-0.00323	1.64333	0.35590	0.00632	0.99036
2.25683	-12.14344	2.40267	-0.43563	-1.35394	0.76073	-0.00320	1.68252	0.35385	0.00627	0.99629
2.31000	-12.22941	2.41718	-0.43488	-1.35900	0.76258	-0.00316	1.71504	0.35232	0.00633	1.00088
2.36463	-12.31891	2.43157	-0.43427	-1.36320	0.76299	-0.00312	1.74075	0.35114	0.00648	1.00416
2.42014	-12.41284	2.44562	-0.43375	-1.36616	0.76254	-0.00308	1.75855	0.35024	0.00675	1.00610
2.47709	-12.51489	2.45939	-0.43326	-1.36741	0.76161	-0.00305	1.76675	0.34957	0.00715	1.00679
2.53550	-12.62776	2.47275	-0.43275	-1.36634	0.76024	-0.00302	1.76336	0.34907	0.00768	1.00643
2.59471	-12.75143	2.48544	-0.43216	-1.36266	0.75849	-0.00299	1.74842	0.34863	0.00830	1.00536
2.65604	-12.88887	2.49765	-0.43138	-1.35627	0.75646	-0.00298	1.72309	0.34808	0.00901	1.00392
2.71887	-13.03673	2.50921	-0.43037	-1.34764	0.75425	-0.00297	1.69090	0.34723	0.00976	1.00259
2.78242	-13.19139	2.52011	-0.42901	-1.33740	0.75185	-0.00297	1.65641	0.34589	0.01054	1.00162
2.84819	-13.35387	2.53068	-0.42719	-1.32605	0.74922	-0.00297	1.62355	0.34382	0.01136	1.00130
2.91545	-13.51792	2.54091	-0.42493	-1.31464	0.74665	-0.00297	1.59829	0.34075	0.01218	1.00201
2.98329	-13.67834	2.55073	-0.42217	-1.30421	0.74493	-0.00298	1.58667	0.33645	0.01297	1.00369
3.05344	-13.83452	2.56044	-0.41893	-1.29534	0.74433	-0.00298	1.59346	0.33059	0.01372	1.00651
3.12598	-13.98548	2.57016	-0.41503	-1.28864	0.74551	-0.00299	1.62330	0.32298	0.01445	1.01012
3.19898	-14.12638	2.57968	-0.41068	-1.28436	0.74857	-0.00300	1.67519	0.31405	0.01513	1.01421
3.27439	-14.26260	2.58935	-0.40566	-1.28234	0.75416	-0.00301	1.75155	0.30370	0.01582	1.01815
3.35121	-14.39371	2.59891	-0.40015	-1.28200	0.76200	-0.00302	1.84707	0.29250	0.01653	1.02165
3.43053	-14.52299	2.60845	-0.39403	-1.28319	0.77276	-0.00304	1.96412	0.28040	0.01730	1.02449
3.51124	-14.64894	2.61766	-0.38753	-1.28526	0.78549	-0.00306	2.09743	0.26791	0.01809	1.02699
3.59324	-14.77341	2.62649	-0.38052	-1.28802	0.80010	-0.00308	2.24797	0.25508	0.01890	1.02916
3.67782	-14.89723	2.63512	-0.37316	-1.29112	0.81557	-0.00311	2.41394	0.24210	0.01968	1.03195
3.76506	-15.02156	2.64328	-0.36528	-1.29454	0.83231	-0.00313	2.59533	0.22922	0.02041	1.03536
3.85356	-15.14387	2.65129	-0.35732	-1.29796	0.84875	-0.00316	2.78521	0.21678	0.02106	1.03986
3.94477	-15.26782	2.65864	-0.34907	-1.30100	0.86510	-0.00319	2.97434	0.20540	0.02160	1.04496
4.03714	-15.39309	2.66608	-0.34080	-1.30343	0.88032	-0.00321	3.15788	0.19498	0.02203	1.05064
4.13223	-15.52087	2.67304	-0.33264	-1.30485	0.89410	-0.00324	3.31871	0.18633	0.02231	1.05689
4.23012	-15.65363	2.67986	-0.32435	-1.30522	0.90648	-0.00326	3.45557	0.17925	0.02245	1.06329
4.32900	-15.78567	2.68690	-0.31645	-1.30498	0.91689	-0.00328	3.57032	0.17346	0.02245	1.06974
4.43066	-15.91673	2.69292	-0.30873	-1.30409	0.92591	-0.00330	3.65272	0.16961	0.02226	1.07614
4.53515	-16.04930	2.69967	-0.30103	-1.30318	0.93393	-0.00332	3.72219	0.16656	0.02193	1.08260
4.64253	-16.17833	2.70619	-0.29371	-1.30234	0.94094	-0.00333	3.77407	0.16456	0.02146	1.08927
4.75059	-16.30138	2.71162	-0.28666	-1.30142	0.94703	-0.00334	3.80012	0.16408	0.02077	1.09618
4.86145	-16.42683	2.71844	-0.27966	-1.30074	0.95243	-0.00334	3.81912	0.16396	0.01998	1.10326
4.97760	-16.54910	2.72461	-0.27299	-1.30011	0.95743	-0.00335	3.82279	0.16469	0.01910	1.11070
5.09424	-16.66481	2.72965	-0.26659	-1.29943	0.96190	-0.00335	3.80621	0.16653	0.01806	1.11849
5.21376	-16.78518	2.73664	-0.26017	-1.29904	0.96613	-0.00335	3.78886	0.16836	0.01701	1.12630
5.33618	-16.89907	2.74279	-0.25424	-1.29882	0.97017	-0.00335	3.76632	0.17046	0.01599	1.13398
5.46150	-17.00514	2.74714	-0.24856	-1.29859	0.97397	-0.00336	3.73032	0.17338	0.01488	1.14204
5.58971	-17.11839	2.75380	-0.24272	-1.29865	0.97765	-0.00335	3.69476	0.17624	0.01379	1.15015
5.72082	-17.23095	2.76104	-0.23718	-1.29888	0.98117	-0.00335	3.66272	0.17885	0.01281	1.15802
5.85823	-17.33058	2.76488	-0.23207	-1.29904	0.98439	-0.00335	3.62285	0.18205	0.01180	1.16639
5.99520	-17.43307	2.77009	-0.22688	-1.29932	0.98733	-0.00334	3.58098	0.18533	0.01082	1.17482
6.13497	-17.54578	2.77828	-0.22148	-1.29987	0.99032	-0.00334	3.54439	0.18823	0.00992	1.18306
6.28141	-17.64723	2.78383	-0.21669	-1.30036	0.99308	-0.00333	3.51041	0.19104	0.00911	1.19135
6.42674	-17.73354	2.78636	-0.21240	-1.30071	0.99532	-0.00333	3.47328	0.19410	0.00830	1.19970
6.57895	-17.83476	2.79213	-0.20750	-1.30131	0.99768	-0.00332	3.43621	0.19713	0.00749	1.20834
6.73401	-17.94791	2.80116	-0.20232	-1.30218	1.00028	-0.00331	3.40469	0.19975	0.00677	1.21673
6.89180	-18.03832	2.80539	-0.19826	-1.30281	1.00239	-0.00330	3.37789	0.20212	0.00615	1.22488
7.05716	-18.11595	2.80627	-0.19462	-1.30328	1.00402	-0.00330	3.34832	0.20475	0.00550	1.23341
7.22022	-18.20548	2.81058	-0.19047	-1.30398	1.00578	-0.00329	3.32011	0.20723	0.00489	1.24153
7.39098	-18.31566	2.81939	-0.18551	-1.30501	1.00799	-0.00328	3.29363	0.20955	0.00431	1.24946
7.56430	-18.41050	2.82530	-0.18153	-1.30589	1.00994	-0.00327	3.27342	0.21145	0.00383	1.25668
7.73994	-18.46779	2.82301	-0.17925	-1.30625	1.01084	-0.00326	3.25433	0.21335	0.00338	1.26350
7.92393	-18.53840	2.82334	-0.17629	-1.30681	1.01188	-0.00325	3.23301	0.21539	0.00291	1.27012
8.11030	-18.62389	2.82720	-0.17264	-1.30762	1.01321	-0.00324	3.21183	0.21737	0.00244	1.27624
8.29876	-18.73128	2.83620	-0.16802	-1.30878	1.01511	-0.00323	3.19184	0.21922	0.00200	1.28178
8.49618	-18.80447	2.83780	-0.16544	-1.30950	1.01632	-0.00322	3.17904	0.22061	0.00166	1.28681
8.69565	-18.83339	2.83014	-0.16510	-1.30966	1.01640	-0.00322	3.16973	0.22182	0.00137	1.29156
8.90472	-18.88332	2.82668	-0.16369	-1.31009	1.01681	-0.00321	3.15751	0.22318	0.00104	1.29638
9.11577	-18.94091	2.82515	-0.16192	-1.31063	1.01737	-0.00320	3.14543	0.22450	0.00071	1.30109
9.32836	-19.02990	2.83042	-0.15836	-1.31160	1.01854	-0.00319	3.12960	0.22603	0.00036	1.30593
9.54198	-19.10926	2.83420	-0.15558	-1.31246	1.01969	-0.00318	3.11911	0.22717	0.00008	1.31056
9.76563	-19.11308	2.82229	-0.15749	-1.31232	1.01934	-0.00318	3.12183	0.22739	-0.00002	1.31506
10.00000	-19.11033	2.80883	-0.15993	-1.31204	1.01875	-0.00317	3.12473	0.22756	-0.00012	1.32018

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
High stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 610 - 1220 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-1.32829	2.63763	-0.19191	-2.92976	0.86096	-0.00010	9.22515	0.27987	0.00429	0.35883
PGV	15.17449	2.10481	-0.13963	-5.02971	1.07431	0.00219	32.89490	0.21059	-0.01325	0.47710
PGA	10.07958	1.75742	-0.07226	-4.25984	0.44008	0.00118	16.29040	0.39111	-0.02833	0.77315
0.01000	9.81544	1.76921	-0.06965	-4.20673	0.39993	0.00113	15.94261	0.39899	-0.01961	0.77170
0.01024	9.81097	1.76956	-0.06940	-4.20554	0.39833	0.00113	15.92469	0.39937	-0.01965	0.77221
0.01048	9.81317	1.76989	-0.06916	-4.20549	0.39696	0.00113	15.92003	0.39964	-0.01970	0.77271
0.01072	9.82173	1.77018	-0.06892	-4.20651	0.39576	0.00113	15.92788	0.39980	-0.01975	0.77320
0.01097	9.83648	1.77046	-0.06867	-4.20858	0.39473	0.00113	15.94779	0.39987	-0.01981	0.77368
0.01123	9.85738	1.77072	-0.06842	-4.21169	0.39383	0.00114	15.97964	0.39985	-0.01987	0.77415
0.01150	9.88452	1.77097	-0.06816	-4.21584	0.39306	0.00114	16.02357	0.39975	-0.01994	0.77463
0.01177	9.91818	1.77121	-0.06790	-4.22108	0.39240	0.00114	16.08001	0.39955	-0.02002	0.77511
0.01205	9.95887	1.77145	-0.06763	-4.22749	0.39184	0.00115	16.14994	0.39926	-0.02011	0.77562
0.01233	10.00731	1.77169	-0.06734	-4.23518	0.39137	0.00116	16.23474	0.39888	-0.02021	0.77617
0.01262	10.06427	1.77194	-0.06704	-4.24429	0.39099	0.00116	16.33591	0.39839	-0.02032	0.77676
0.01292	10.13075	1.77219	-0.06672	-4.25497	0.39070	0.00117	16.45543	0.39779	-0.02045	0.77742
0.01322	10.20770	1.77245	-0.06638	-4.26737	0.39051	0.00119	16.59531	0.39707	-0.02059	0.77814
0.01353	10.29622	1.77272	-0.06602	-4.28166	0.39042	0.00120	16.75787	0.39621	-0.02075	0.77896
0.01385	10.39752	1.77300	-0.06563	-4.29804	0.39041	0.00121	16.94557	0.39522	-0.02092	0.77990
0.01417	10.51314	1.77329	-0.06520	-4.31675	0.39048	0.00123	17.16163	0.39408	-0.02112	0.78098
0.01451	10.64432	1.77359	-0.06474	-4.33799	0.39065	0.00125	17.40888	0.39277	-0.02134	0.78225
0.01485	10.79256	1.77393	-0.06424	-4.36199	0.39091	0.00127	17.69055	0.39130	-0.02159	0.78371
0.01520	10.95940	1.77429	-0.06368	-4.38897	0.39122	0.00129	18.01015	0.38966	-0.02186	0.78540
0.01556	11.14749	1.77470	-0.06306	-4.41937	0.39154	0.00132	18.37348	0.38783	-0.02217	0.78737
0.01592	11.35799	1.77512	-0.06239	-4.45331	0.39185	0.00135	18.78402	0.38581	-0.02251	0.78968
0.01630	11.59141	1.77556	-0.06163	-4.49088	0.39218	0.00138	19.24363	0.38360	-0.02290	0.79234
0.01668	11.84774	1.77603	-0.06080	-4.53206	0.39250	0.00142	19.75270	0.38123	-0.02334	0.79539
0.01707	12.12709	1.77646	-0.05988	-4.57678	0.39274	0.00146	20.31345	0.37870	-0.02383	0.79885
0.01748	12.42540	1.77683	-0.05887	-4.62426	0.39278	0.00150	20.91980	0.37608	-0.02435	0.80261
0.01789	12.74014	1.77725	-0.05779	-4.67414	0.39263	0.00154	21.56665	0.37340	-0.02488	0.80644
0.01831	13.06833	1.77780	-0.05663	-4.72600	0.39257	0.00158	22.24764	0.37072	-0.02539	0.81020
0.01874	13.40452	1.77850	-0.05536	-4.77893	0.39273	0.00162	22.95152	0.36809	-0.02587	0.81376
0.01918	13.74876	1.77932	-0.05399	-4.83292	0.39296	0.00166	23.67833	0.36551	-0.02633	0.81723
0.01963	14.10136	1.78025	-0.05253	-4.88789	0.39288	0.00170	24.42997	0.36301	-0.02680	0.82079
0.02009	14.45839	1.78127	-0.05099	-4.94307	0.39222	0.00174	25.20000	0.36062	-0.02732	0.82469
0.02057	14.79124	1.78214	-0.04936	-4.99367	0.39073	0.00177	25.92589	0.35857	-0.02792	0.82912
0.02105	15.07553	1.78275	-0.04763	-5.03571	0.38849	0.00180	26.55097	0.35703	-0.02854	0.83371
0.02154	15.31788	1.78340	-0.04586	-5.07055	0.38581	0.00181	27.08347	0.35596	-0.02909	0.83781
0.02205	15.54280	1.78428	-0.04411	-5.10263	0.38313	0.00183	27.57104	0.35513	-0.02956	0.84133
0.02257	15.75015	1.78521	-0.04235	-5.13182	0.38038	0.00184	28.01573	0.35450	-0.03001	0.84480
0.02310	15.91064	1.78597	-0.04049	-5.15289	0.37750	0.00184	28.35989	0.35429	-0.03042	0.84801
0.02364	15.99549	1.78665	-0.03851	-5.16116	0.37438	0.00183	28.53431	0.35475	-0.03071	0.85040
0.02420	16.00283	1.78734	-0.03647	-5.15650	0.37040	0.00181	28.52512	0.35595	-0.03089	0.85218
0.02477	15.94001	1.78822	-0.03444	-5.14027	0.36534	0.00178	28.34747	0.35785	-0.03107	0.85398
0.02535	15.82794	1.78976	-0.03247	-5.11623	0.35927	0.00174	28.04208	0.36037	-0.03129	0.85622
0.02595	15.68673	1.79192	-0.03051	-5.08779	0.35265	0.00170	27.65510	0.36332	-0.03152	0.85857
0.02656	15.54605	1.79494	-0.02854	-5.06028	0.34679	0.00165	27.25668	0.36639	-0.03161	0.85991
0.02719	15.42336	1.79862	-0.02665	-5.03643	0.34210	0.00161	26.89560	0.36933	-0.03153	0.86010
0.02783	15.31876	1.80269	-0.02487	-5.01595	0.33745	0.00157	26.57110	0.37217	-0.03143	0.86013
0.02848	15.19154	1.80661	-0.02309	-4.99155	0.33174	0.00153	26.19588	0.37528	-0.03139	0.86057
0.02915	14.98744	1.80996	-0.02117	-4.95405	0.32483	0.00148	25.65485	0.37912	-0.03136	0.86112
0.02984	14.70325	1.81250	-0.01918	-4.90315	0.31683	0.00142	24.94055	0.38371	-0.03121	0.86089
0.03054	14.39268	1.81394	-0.01726	-4.84742	0.30817	0.00136	24.18540	0.38849	-0.03095	0.85994
0.03126	14.09963	1.81449	-0.01545	-4.79381	0.30002	0.00131	23.49741	0.39297	-0.03088	0.86024
0.03199	13.80462	1.81496	-0.01369	-4.73937	0.29246	0.00125	22.82620	0.39751	-0.03103	0.86224
0.03275	13.44235	1.81633	-0.01181	-4.67407	0.28469	0.00117	22.01408	0.40304	-0.03103	0.86339
0.03352	12.97462	1.81864	-0.00954	-4.59207	0.27688	0.00108	20.98305	0.41003	-0.03069	0.86233
0.03430	12.40231	1.82185	-0.00677	-4.49335	0.26851	0.00097	19.74999	0.41862	-0.03014	0.85994
0.03511	11.80824	1.82600	-0.00391	-4.39145	0.25856	0.00086	18.49389	0.42806	-0.02952	0.85722
0.03594	11.24424	1.83104	-0.00120	-4.29500	0.24631	0.00076	17.31299	0.43781	-0.02896	0.85508
0.03678	10.74710	1.83709	0.00135	-4.21045	0.23281	0.00067	16.27097	0.44735	-0.02852	0.85370
0.03765	10.30446	1.84418	0.00373	-4.13608	0.21933	0.00059	15.34328	0.45662	-0.02809	0.85225
0.03854	9.84418	1.85181	0.00610	-4.05968	0.20514	0.00052	14.39600	0.46659	-0.02750	0.84975
0.03944	9.35327	1.85916	0.00841	-3.97893	0.19109	0.00045	13.41608	0.47728	-0.02669	0.84564
0.04037	8.88583	1.86442	0.01044	-3.90147	0.17860	0.00038	12.51814	0.48748	-0.02583	0.84113
0.04132	8.49484	1.86775	0.01217	-3.83555	0.16867	0.00032	11.79413	0.49620	-0.02528	0.83860
0.04229	8.14646	1.87174	0.01411	-3.77699	0.16285	0.00026	11.17920	0.50409	-0.02501	0.83792
0.04329	7.77055	1.87843	0.01663	-3.71566	0.16098	0.00018	10.54997	0.51262	-0.02486	0.83795
0.04431	7.39282	1.88702	0.01926	-3.65554	0.16032	0.00009	9.93739	0.52152	-0.02466	0.83750
0.04535	7.04906	1.89304	0.02132	-3.59955	0.15685	0.00002	9.39110	0.52986	-0.02446	0.83690

0.04642	6.73824	1.89420	0.02260	-3.54560	0.14826	-0.00002	8.90212	0.53760	-0.02442	0.83739
0.04751	6.44813	1.89371	0.02326	-3.49358	0.13509	-0.00005	8.44377	0.54540	-0.02444	0.83825
0.04863	6.18295	1.89452	0.02364	-3.44646	0.12197	-0.00008	8.02921	0.55307	-0.02445	0.83916
0.04977	5.95007	1.89665	0.02411	-3.40588	0.11337	-0.00011	7.67664	0.55996	-0.02444	0.83976
0.05094	5.72144	1.89855	0.02474	-3.36640	0.10821	-0.00014	7.34338	0.56653	-0.02431	0.83941
0.05214	5.47039	1.89989	0.02533	-3.32329	0.10251	-0.00018	6.98117	0.57382	-0.02407	0.83834
0.05337	5.22622	1.90087	0.02546	-3.28166	0.09497	-0.00020	6.62232	0.58140	-0.02384	0.83731
0.05462	5.02175	1.90227	0.02518	-3.24742	0.08923	-0.00022	6.32011	0.58811	-0.02372	0.83679
0.05591	4.86182	1.90511	0.02476	-3.22161	0.08660	-0.00024	6.08414	0.59372	-0.02347	0.83508
0.05722	4.68757	1.90896	0.02456	-3.19378	0.08328	-0.00026	5.84079	0.59986	-0.02285	0.83078
0.05857	4.46218	1.91254	0.02466	-3.15683	0.07736	-0.00029	5.55231	0.60736	-0.02214	0.82597
0.05995	4.19661	1.91488	0.02491	-3.11196	0.07116	-0.00033	5.23840	0.61572	-0.02164	0.82297
0.06136	3.93669	1.91610	0.02493	-3.06734	0.06708	-0.00037	4.94424	0.62380	-0.02137	0.82185
0.06280	3.74201	1.91699	0.02435	-3.03399	0.06692	-0.00041	4.72882	0.62983	-0.02123	0.82148
0.06428	3.60470	1.91707	0.02327	-3.01011	0.06873	-0.00044	4.57629	0.63409	-0.02103	0.82070
0.06579	3.47623	1.91438	0.02178	-2.98572	0.06745	-0.00045	4.42576	0.63834	-0.02073	0.81935
0.06734	3.30537	1.90816	0.02020	-2.95142	0.06092	-0.00045	4.22665	0.64418	-0.02050	0.81895
0.06893	3.08188	1.90073	0.01883	-2.90717	0.05059	-0.00046	3.97743	0.65205	-0.02038	0.81942
0.07055	2.84123	1.89564	0.01753	-2.86189	0.03770	-0.00046	3.71233	0.66139	-0.02018	0.81913
0.07221	2.60613	1.89156	0.01602	-2.81883	0.02289	-0.00045	3.45536	0.67121	-0.01991	0.81811
0.07391	2.41100	1.88729	0.01440	-2.78324	0.01393	-0.00045	3.25493	0.67885	-0.01961	0.81650
0.07565	2.27364	1.88556	0.01300	-2.75956	0.01630	-0.00047	3.13426	0.68309	-0.01926	0.81438
0.07743	2.15658	1.88664	0.01181	-2.74078	0.02162	-0.00050	3.04258	0.68652	-0.01912	0.81399
0.07925	2.03525	1.88736	0.01040	-2.72028	0.02154	-0.00052	2.94126	0.69096	-0.01928	0.81588
0.08111	1.93076	1.88658	0.00849	-2.70146	0.01825	-0.00052	2.84666	0.69531	-0.01962	0.81876
0.08302	1.83799	1.88477	0.00642	-2.68433	0.01647	-0.00053	2.76108	0.69908	-0.02009	0.82237
0.08498	1.72088	1.88325	0.00468	-2.66349	0.01548	-0.00054	2.66087	0.70360	-0.02052	0.82590
0.08697	1.57019	1.88079	0.00310	-2.63631	0.01346	-0.00055	2.53967	0.70928	-0.02057	0.82705
0.08902	1.36658	1.87662	0.00197	-2.59851	0.00987	-0.00058	2.38601	0.71695	-0.02018	0.82576
0.09112	1.15251	1.87040	0.00086	-2.55670	0.00436	-0.00060	2.22915	0.72535	-0.01945	0.82275
0.09326	1.02864	1.86357	-0.00164	-2.52930	-0.00163	-0.00060	2.13600	0.73045	-0.01832	0.81711
0.09545	1.01016	1.85663	-0.00606	-2.51989	-0.00766	-0.00058	2.11346	0.73123	-0.01694	0.80935
0.09770	1.02862	1.85040	-0.01126	-2.51818	-0.01208	-0.00056	2.11560	0.73026	-0.01565	0.80181
0.10000	1.02266	1.84640	-0.01583	-2.51458	-0.01369	-0.00055	2.10412	0.73008	-0.01470	0.79674
0.10235	0.99236	1.84279	-0.01990	-2.50699	-0.01312	-0.00055	2.08188	0.73045	-0.01415	0.79472
0.10476	0.91019	1.83805	-0.02354	-2.48907	-0.01423	-0.00056	2.02978	0.73279	-0.01365	0.79317
0.10723	0.77031	1.83194	-0.02691	-2.46005	-0.02079	-0.00056	1.93625	0.73824	-0.01312	0.79138
0.10975	0.59652	1.82740	-0.02985	-2.42673	-0.02994	-0.00056	1.82027	0.74598	-0.01275	0.79075
0.11233	0.44502	1.82581	-0.03265	-2.40001	-0.03717	-0.00056	1.72043	0.75324	-0.01266	0.79232
0.11498	0.30031	1.82425	-0.03555	-2.37461	-0.04548	-0.00055	1.62425	0.76072	-0.01276	0.79520
0.11768	0.15691	1.81998	-0.03886	-2.34792	-0.05403	-0.00054	1.52898	0.76810	-0.01289	0.79826
0.12045	0.04988	1.81411	-0.04262	-2.32719	-0.05758	-0.00053	1.45974	0.77277	-0.01316	0.80197
0.12328	-0.02391	1.80991	-0.04630	-2.31386	-0.05702	-0.00052	1.41324	0.77537	-0.01359	0.80655
0.12619	-0.06969	1.80671	-0.05017	-2.30592	-0.05804	-0.00051	1.37853	0.77731	-0.01400	0.81064
0.12916	-0.12834	1.80360	-0.05382	-2.29538	-0.06077	-0.00049	1.33860	0.78009	-0.01407	0.81232
0.13219	-0.21629	1.80092	-0.05674	-2.27976	-0.06129	-0.00049	1.29223	0.78354	-0.01383	0.81156
0.13531	-0.34999	1.79816	-0.05874	-2.25520	-0.06149	-0.00052	1.23085	0.78883	-0.01346	0.80939
0.13849	-0.48697	1.79478	-0.06072	-2.22893	-0.06228	-0.00054	1.17189	0.79421	-0.01298	0.80571
0.14175	-0.62226	1.79216	-0.06297	-2.20321	-0.06639	-0.00056	1.11334	0.80026	-0.01250	0.80161
0.14508	-0.71987	1.78926	-0.06632	-2.18389	-0.07295	-0.00056	1.06764	0.80526	-0.01230	0.79956
0.14850	-0.76025	1.78731	-0.07031	-2.17606	-0.07327	-0.00055	1.04885	0.80671	-0.01238	0.79948
0.15199	-0.77347	1.78664	-0.07421	-2.17474	-0.06616	-0.00056	1.04734	0.80554	-0.01250	0.79953
0.15557	-0.81271	1.78671	-0.07769	-2.16982	-0.05787	-0.00058	1.03887	0.80504	-0.01261	0.79936
0.15923	-0.89279	1.78646	-0.08120	-2.15761	-0.05282	-0.00060	1.01357	0.80667	-0.01266	0.79886
0.16298	-1.00976	1.78567	-0.08483	-2.13828	-0.05219	-0.00062	0.97194	0.81077	-0.01249	0.79735
0.16681	-1.11743	1.78490	-0.08900	-2.12062	-0.05381	-0.00063	0.93328	0.81484	-0.01197	0.79416
0.17074	-1.20911	1.78358	-0.09355	-2.10495	-0.05586	-0.00064	0.90168	0.81812	-0.01139	0.79122
0.17475	-1.31696	1.77985	-0.09820	-2.08354	-0.06115	-0.00065	0.86271	0.82270	-0.01119	0.79109
0.17887	-1.45924	1.77409	-0.10279	-2.05411	-0.07369	-0.00064	0.80632	0.83061	-0.01135	0.79348
0.18307	-1.61647	1.76765	-0.10720	-2.02223	-0.08785	-0.00063	0.74289	0.84027	-0.01138	0.79507
0.18738	-1.75115	1.76249	-0.11145	-1.99634	-0.09318	-0.00063	0.69461	0.84730	-0.01124	0.79558
0.19179	-1.82364	1.75931	-0.11639	-1.98361	-0.08971	-0.00064	0.67525	0.84870	-0.01110	0.79612
0.19631	-1.85687	1.75889	-0.12182	-1.98044	-0.08512	-0.00064	0.67136	0.84737	-0.01083	0.79589
0.20092	-1.88587	1.75912	-0.12741	-1.97858	-0.08472	-0.00063	0.66780	0.84628	-0.01047	0.79549
0.20565	-1.89177	1.75937	-0.13330	-1.98068	-0.08041	-0.00062	0.67627	0.84251	-0.01016	0.79527
0.21049	-1.86684	1.76087	-0.13928	-1.98925	-0.06576	-0.00064	0.70318	0.83478	-0.00979	0.79449
0.21544	-1.86504	1.76285	-0.14475	-1.99384	-0.04867	-0.00068	0.72513	0.82821	-0.00953	0.79433
0.22051	-1.90042	1.76370	-0.14993	-1.99064	-0.03376	-0.00072	0.73277	0.82439	-0.00962	0.79638
0.22570	-1.93373	1.76362	-0.15530	-1.98740	-0.01704	-0.00076	0.74088	0.82018	-0.00991	0.79978
0.23101	-1.95552	1.76259	-0.16077	-1.98579	0.00135	-0.00080	0.75289	0.81498	-0.01025	0.80351
0.23645	-1.96295	1.76238	-0.16630	-1.98765	0.01904	-0.00083	0.76799	0.80946	-0.01044	0.80619
0.24201	-1.94971	1.76414	-0.17197	-1.99500	0.03374	-0.00084	0.78708	0.80388	-0.01022	0.80640
0.24771	-1.93863	1.76540	-0.17788	-2.00119	0.04168	-0.00083	0.80190	0.79946	-0.00964	0.80447
0.25354	-1.94319	1.76640	-0.18370	-2.00425	0.04952	-0.00083	0.81310	0.79554	-0.00899	0.80225
0.25950	-1.94687	1.76878	-0.18919	-2.00874	0.06463	-0.00086	0.83224	0.79008	-0.00856	0.80171
0.26561	-1.93789	1.77278	-0.19418	-2.01654	0.08657	-0.00091	0.86491	0.78254	-0.00820	0.80158
0.27186	-1.92385	1.77659	-0.19881	-2.02444	0.11236	-0.00098	0.90544	0.77394	-0.00774	0.80024
0.27826	-1.93876	1.77896	-0.20313	-2.02543	0.13712	-0.00105	0.93228	0.76751	-0.00723	0.79788
0.28480	-2.01859	1.77948	-0.20718	-2.01299	0.15330	-0.00111	0.92075	0.76687	-0.00665	0.79459
0.29150	-2.15645	1.77718	-0.21161	-1.98756	0.15475	-0.00114	0.87274	0.77199	-0.00598	0.79072
0.29836	-2.32780	1.77317	-0.21624	-1.95425	0.14435	-0.00115	0.81001	0.78013	-0.00532	0.78747

0.30539	-2.51113	1.76896	-0.22049	-1.91849	0.12985	-0.00116	0.74938	0.78867	-0.00494	0.78627
0.31257	-2.65917	1.76524	-0.22485	-1.89002	0.11690	-0.00116	0.70771	0.79434	-0.00488	0.78720
0.31993	-2.74928	1.76317	-0.22993	-1.87433	0.10875	-0.00114	0.68963	0.79581	-0.00483	0.78807
0.32745	-2.82947	1.76252	-0.23510	-1.86264	0.10419	-0.00112	0.67433	0.79666	-0.00453	0.78724
0.33517	-2.94074	1.76224	-0.23975	-1.84608	0.10398	-0.00112	0.64869	0.79923	-0.00395	0.78467
0.34304	-3.07669	1.76116	-0.24402	-1.82383	0.11239	-0.00118	0.62041	0.80182	-0.00315	0.78065
0.35112	-3.21522	1.75895	-0.24831	-1.79912	0.12805	-0.00127	0.59791	0.80288	-0.00223	0.77565
0.35938	-3.33024	1.75641	-0.25316	-1.77797	0.14317	-0.00135	0.58421	0.80219	-0.00138	0.77102
0.36784	-3.42471	1.75400	-0.25892	-1.76128	0.14720	-0.00139	0.57171	0.80174	-0.00063	0.76725
0.37649	-3.52658	1.75179	-0.26500	-1.74424	0.13836	-0.00137	0.55046	0.80384	0.00012	0.76377
0.38536	-3.67016	1.74947	-0.27037	-1.71940	0.12301	-0.00135	0.51367	0.81019	0.00078	0.76101
0.39442	-3.87293	1.74669	-0.27474	-1.68241	0.10377	-0.00134	0.45933	0.82226	0.00129	0.75919
0.40370	-4.10139	1.74425	-0.27882	-1.64049	0.08371	-0.00135	0.40114	0.83746	0.00180	0.75702
0.41321	-4.28863	1.74359	-0.28358	-1.60826	0.07038	-0.00137	0.36009	0.84882	0.00244	0.75406
0.42292	-4.41641	1.74600	-0.28905	-1.59089	0.06740	-0.00139	0.33945	0.85361	0.00313	0.75163
0.43288	-4.51771	1.75083	-0.29460	-1.58164	0.07119	-0.00141	0.32819	0.85505	0.00373	0.75094
0.44307	-4.61060	1.75620	-0.29998	-1.57515	0.08093	-0.00144	0.32097	0.85464	0.00406	0.75238
0.45349	-4.69488	1.76168	-0.30531	-1.57054	0.09881	-0.00149	0.31865	0.85185	0.00424	0.75445
0.46417	-4.76323	1.76772	-0.31084	-1.56911	0.12675	-0.00157	0.32306	0.84602	0.00459	0.75493
0.47508	-4.80803	1.77494	-0.31674	-1.57279	0.16417	-0.00168	0.33581	0.83689	0.00509	0.75443
0.48626	-4.83600	1.78292	-0.32299	-1.58009	0.20481	-0.00179	0.35455	0.82588	0.00543	0.75530
0.49771	-4.85673	1.79028	-0.32957	-1.58832	0.24078	-0.00188	0.37534	0.81461	0.00551	0.75803
0.50942	-4.86561	1.79713	-0.33643	-1.59896	0.27037	-0.00194	0.39935	0.80268	0.00554	0.76126
0.52140	-4.85310	1.80441	-0.34343	-1.61472	0.29498	-0.00197	0.43080	0.78910	0.00574	0.76315
0.53367	-4.82445	1.81200	-0.35030	-1.63397	0.31583	-0.00198	0.46955	0.77446	0.00613	0.76337
0.54624	-4.81835	1.81850	-0.35655	-1.64731	0.33007	-0.00197	0.50150	0.76277	0.00663	0.76239
0.55910	-4.87778	1.82227	-0.36201	-1.64463	0.33290	-0.00196	0.50756	0.75818	0.00730	0.76021
0.57225	-5.00465	1.82218	-0.36709	-1.62452	0.32424	-0.00195	0.48582	0.76050	0.00819	0.75707
0.58569	-5.16286	1.81842	-0.37230	-1.59458	0.31116	-0.00195	0.45256	0.76557	0.00905	0.75442
0.59948	-5.31640	1.81309	-0.37768	-1.56435	0.30019	-0.00195	0.42300	0.76951	0.00960	0.75394
0.61357	-5.43875	1.81001	-0.38309	-1.54311	0.29377	-0.00194	0.40634	0.76996	0.00985	0.75551
0.62802	-5.50525	1.81258	-0.38866	-1.53917	0.29438	-0.00192	0.41156	0.76436	0.00996	0.75805
0.64280	-5.51910	1.82096	-0.39427	-1.55174	0.30398	-0.00189	0.43867	0.75309	0.01002	0.76090
0.65794	-5.52960	1.83240	-0.39950	-1.56781	0.31978	-0.00188	0.47034	0.74157	0.01015	0.76305
0.67340	-5.59571	1.84332	-0.40402	-1.57187	0.33439	-0.00191	0.48193	0.73584	0.01056	0.76320
0.68927	-5.73528	1.85136	-0.40788	-1.55805	0.34140	-0.00197	0.46448	0.73756	0.01116	0.76196
0.70547	-5.91308	1.85638	-0.41154	-1.53343	0.34122	-0.00202	0.43197	0.74340	0.01176	0.76072
0.72207	-6.08349	1.85971	-0.41553	-1.50888	0.33967	-0.00207	0.40311	0.74833	0.01217	0.76078
0.73910	-6.22490	1.86248	-0.41996	-1.49011	0.34182	-0.00210	0.38651	0.74929	0.01226	0.76294
0.75649	-6.33876	1.86537	-0.42457	-1.47752	0.34835	-0.00213	0.38139	0.74623	0.01205	0.76674
0.77429	-6.43621	1.86885	-0.42914	-1.46915	0.35611	-0.00214	0.38294	0.74092	0.01157	0.77133
0.79246	-6.53193	1.87287	-0.43365	-1.46144	0.36052	-0.00214	0.38481	0.73586	0.01093	0.77556
0.81116	-6.63840	1.87743	-0.43812	-1.45162	0.36004	-0.00215	0.38299	0.73239	0.01039	0.77768
0.83022	-6.75321	1.88323	-0.44218	-1.44093	0.35780	-0.00216	0.37892	0.73011	0.01006	0.77713
0.84976	-6.87301	1.89133	-0.44544	-1.43152	0.35798	-0.00218	0.37451	0.72842	0.00992	0.77482
0.86972	-7.00147	1.90207	-0.44781	-1.42327	0.36190	-0.00221	0.36820	0.72780	0.01012	0.77066
0.89023	-7.13986	1.91503	-0.44970	-1.41569	0.37004	-0.00227	0.35956	0.72818	0.01082	0.76434
0.91116	-7.27637	1.92868	-0.45156	-1.40964	0.38248	-0.00233	0.35209	0.72802	0.01178	0.75777
0.93257	-7.40299	1.94123	-0.45378	-1.40488	0.39674	-0.00240	0.34810	0.72606	0.01260	0.75355
0.95456	-7.52007	1.95143	-0.45659	-1.40003	0.40951	-0.00245	0.34752	0.72205	0.01306	0.75262
0.97704	-7.63299	1.95895	-0.46013	-1.39363	0.41799	-0.00250	0.34826	0.71668	0.01329	0.75383
1.00000	-7.74851	1.96449	-0.46419	-1.38503	0.42174	-0.00252	0.34793	0.71105	0.01338	0.75619
1.02354	-7.86325	1.96948	-0.46841	-1.37636	0.42401	-0.00254	0.34836	0.70486	0.01315	0.76097
1.04767	-7.96977	1.97551	-0.47259	-1.37071	0.42832	-0.00254	0.35323	0.69728	0.01237	0.76973
1.07227	-8.06867	1.98352	-0.47668	-1.36892	0.43505	-0.00255	0.36328	0.68838	0.01112	0.78167
1.09745	-8.16648	1.99363	-0.48058	-1.36982	0.44290	-0.00255	0.37765	0.67856	0.00976	0.79415
1.12334	-8.27260	2.00530	-0.48403	-1.37083	0.44989	-0.00255	0.39352	0.66871	0.00860	0.80519
1.14982	-8.39592	2.01775	-0.48663	-1.36911	0.45412	-0.00255	0.40579	0.66034	0.00773	0.81434
1.17675	-8.54064	2.03048	-0.48822	-1.36313	0.45494	-0.00255	0.40995	0.65469	0.00717	0.82154
1.20453	-8.70304	2.04360	-0.48899	-1.35392	0.45421	-0.00256	0.40683	0.65134	0.00700	0.82621
1.23289	-8.86798	2.05688	-0.48922	-1.34436	0.45492	-0.00257	0.40152	0.64879	0.00728	0.82787
1.26183	-9.02061	2.07004	-0.48924	-1.33727	0.45950	-0.00259	0.39974	0.64526	0.00777	0.82797
1.29149	-9.15240	2.08296	-0.48924	-1.33434	0.46889	-0.00261	0.40492	0.63970	0.00816	0.82879
1.32188	-9.26388	2.09530	-0.48934	-1.33517	0.48152	-0.00263	0.41707	0.63210	0.00825	0.83169
1.35300	-9.36425	2.10672	-0.48965	-1.33729	0.49405	-0.00265	0.43309	0.62340	0.00802	0.83686
1.38485	-9.46452	2.11738	-0.49016	-1.33851	0.50469	-0.00266	0.44912	0.61475	0.00762	0.84341
1.41743	-9.57607	2.12786	-0.49069	-1.33702	0.51182	-0.00267	0.46003	0.60767	0.00726	0.85008
1.45075	-9.70636	2.13867	-0.49097	-1.33173	0.51404	-0.00268	0.46163	0.60335	0.00704	0.85654
1.48500	-9.85778	2.15010	-0.49081	-1.32249	0.51104	-0.00268	0.45325	0.60198	0.00685	0.86333
1.51999	-10.02502	2.16211	-0.49018	-1.31037	0.50421	-0.00269	0.43818	0.60273	0.00669	0.87038
1.55569	-10.19974	2.17445	-0.48925	-1.29705	0.49556	-0.00269	0.42177	0.60398	0.00658	0.87730
1.59236	-10.37510	2.18668	-0.48830	-1.28375	0.48703	-0.00270	0.40862	0.60402	0.00657	0.88373
1.62973	-10.54494	2.19836	-0.48748	-1.27133	0.48009	-0.00271	0.40131	0.60177	0.00666	0.88949
1.66806	-10.70593	2.20953	-0.48678	-1.26062	0.47568	-0.00272	0.40106	0.59682	0.00677	0.89547
1.70736	-10.85346	2.22042	-0.48616	-1.25290	0.47443	-0.00273	0.40917	0.58900	0.00677	0.90263
1.74764	-10.98877	2.23125	-0.48552	-1.24816	0.47589	-0.00274	0.42464	0.57897	0.00666	0.91100
1.78859	-11.11672	2.24197	-0.48477	-1.24527	0.47906	-0.00275	0.44483	0.56770	0.00652	0.91984
1.83083	-11.24605	2.25258	-0.48383	-1.24258	0.48268	-0.00275	0.46752	0.55569	0.00644	0.92852
1.87371	-11.37736	2.26277	-0.48262	-1.23952	0.48639	-0.00276	0.49244	0.54299	0.00649	0.93628
1.91791	-11.50987	2.27279	-0.48108	-1.23679	0.49123	-0.00277	0.52363	0.52857	0.00671	0.94292
1.96309	-11.63809	2.28282	-0.47916	-1.23576	0.49815	-0.00278	0.56581	0.51180	0.00713	0.94804

2.00924	-11.76038	2.29314	-0.47677	-1.23714	0.50733	-0.00279	0.62226	0.49266	0.00776	0.95136
2.05634	-11.87736	2.30388	-0.47380	-1.24089	0.51797	-0.00280	0.69474	0.47164	0.00859	0.95294
2.10482	-11.98899	2.31514	-0.47011	-1.24715	0.53025	-0.00280	0.78702	0.44895	0.00955	0.95328
2.15424	-12.09314	2.32676	-0.46572	-1.25584	0.54458	-0.00280	0.90168	0.42525	0.01052	0.95306
2.20507	-12.19057	2.33866	-0.46067	-1.26665	0.56120	-0.00281	1.04272	0.40084	0.01139	0.95310
2.25683	-12.28241	2.35060	-0.45512	-1.27868	0.57929	-0.00281	1.20916	0.37659	0.01206	0.95407
2.31000	-12.37461	2.36272	-0.44913	-1.29096	0.59789	-0.00282	1.39757	0.35315	0.01258	0.95577
2.36463	-12.47480	2.37525	-0.44272	-1.30217	0.61586	-0.00282	1.59619	0.33146	0.01309	0.95719
2.42014	-12.58788	2.38822	-0.43593	-1.31116	0.63231	-0.00282	1.78924	0.31225	0.01365	0.95774
2.47709	-12.71739	2.40174	-0.42870	-1.31741	0.64718	-0.00282	1.96783	0.29542	0.01426	0.95763
2.53550	-12.86005	2.41581	-0.42114	-1.32149	0.66149	-0.00283	2.13104	0.28059	0.01491	0.95701
2.59471	-13.00863	2.43019	-0.41348	-1.32429	0.67591	-0.00283	2.28126	0.26746	0.01553	0.95640
2.65604	-13.16109	2.44514	-0.40568	-1.32669	0.69091	-0.00284	2.42557	0.25560	0.01604	0.95668
2.71887	-13.31400	2.46050	-0.39799	-1.32875	0.70557	-0.00285	2.55984	0.24528	0.01641	0.95830
2.78242	-13.46657	2.47607	-0.39060	-1.33011	0.71877	-0.00286	2.67482	0.23685	0.01666	0.96133
2.84819	-13.62320	2.49217	-0.38343	-1.33042	0.73000	-0.00286	2.76474	0.23037	0.01679	0.96611
2.91545	-13.78100	2.50859	-0.37670	-1.32975	0.73900	-0.00286	2.82592	0.22586	0.01680	0.97267
2.98329	-13.93762	2.52497	-0.37051	-1.32814	0.74567	-0.00286	2.85650	0.22331	0.01673	0.98059
3.05344	-14.09557	2.54170	-0.36478	-1.32573	0.75037	-0.00285	2.86109	0.22232	0.01664	0.98954
3.12598	-14.25459	2.55870	-0.35950	-1.32263	0.75327	-0.00284	2.84135	0.22280	0.01653	0.99908
3.19898	-14.40839	2.57542	-0.35485	-1.31925	0.75475	-0.00283	2.80453	0.22437	0.01642	1.00858
3.27439	-14.56080	2.59228	-0.35065	-1.31567	0.75530	-0.00281	2.75328	0.22694	0.01629	1.01789
3.35121	-14.70756	2.60893	-0.34697	-1.31231	0.75551	-0.00280	2.69535	0.23012	0.01615	1.02670
3.43053	-14.85076	2.62564	-0.34366	-1.30930	0.75579	-0.00279	2.63344	0.23381	0.01599	1.03522
3.51124	-14.98600	2.64203	-0.34079	-1.30707	0.75664	-0.00277	2.57650	0.23749	0.01579	1.04352
3.59324	-15.11439	2.65813	-0.33822	-1.30566	0.75853	-0.00276	2.52595	0.24107	0.01559	1.05162
3.67782	-15.23574	2.67402	-0.33599	-1.30521	0.76143	-0.00275	2.48823	0.24402	0.01537	1.05999
3.76506	-15.35338	2.68962	-0.33381	-1.30549	0.76583	-0.00275	2.46316	0.24634	0.01514	1.06854
3.85356	-15.46330	2.70470	-0.33198	-1.30636	0.77066	-0.00275	2.45339	0.24763	0.01493	1.07741
3.94477	-15.57247	2.71919	-0.32993	-1.30751	0.77705	-0.00275	2.45900	0.24790	0.01470	1.08609
4.03714	-15.67492	2.73320	-0.32807	-1.30915	0.78392	-0.00275	2.48338	0.24687	0.01452	1.09452
4.13223	-15.77537	2.74642	-0.32591	-1.31122	0.79228	-0.00276	2.52894	0.24447	0.01433	1.10251
4.23012	-15.87464	2.75927	-0.32341	-1.31379	0.80209	-0.00277	2.59886	0.24056	0.01421	1.10951
4.32900	-15.96809	2.77134	-0.32088	-1.31660	0.81158	-0.00279	2.68932	0.23533	0.01413	1.11572
4.43066	-16.06653	2.78238	-0.31758	-1.31914	0.82209	-0.00280	2.79813	0.22902	0.01404	1.12093
4.53515	-16.16239	2.79309	-0.31414	-1.32183	0.83205	-0.00282	2.93123	0.22134	0.01406	1.12527
4.64253	-16.26044	2.80282	-0.31038	-1.32394	0.84105	-0.00283	3.07080	0.21334	0.01407	1.12940
4.75059	-16.36696	2.81154	-0.30585	-1.32493	0.84959	-0.00285	3.20922	0.20539	0.01407	1.13285
4.86145	-16.47181	2.82028	-0.30129	-1.32575	0.85641	-0.00285	3.36160	0.19680	0.01421	1.13579
4.97760	-16.58418	2.82815	-0.29627	-1.32567	0.86266	-0.00286	3.50231	0.18890	0.01434	1.13874
5.09424	-16.70423	2.83523	-0.29055	-1.32475	0.86886	-0.00287	3.62588	0.18193	0.01449	1.14112
5.21376	-16.82106	2.84278	-0.28486	-1.32410	0.87377	-0.00287	3.75807	0.17473	0.01483	1.14309
5.33618	-16.93589	2.84948	-0.27913	-1.32383	0.87901	-0.00288	3.87033	0.16899	0.01515	1.14520
5.46150	-17.05577	2.85523	-0.27278	-1.32365	0.88526	-0.00289	3.95292	0.16504	0.01542	1.14711
5.58971	-17.17129	2.86186	-0.26641	-1.32438	0.89055	-0.00289	4.04419	0.16105	0.01583	1.14887
5.72082	-17.28060	2.86819	-0.26042	-1.32556	0.89476	-0.00288	4.12940	0.15766	0.01624	1.15111
5.85823	-17.39337	2.87233	-0.25402	-1.32656	0.89914	-0.00288	4.17675	0.15637	0.01641	1.15408
5.99520	-17.50261	2.87689	-0.24752	-1.32810	0.90254	-0.00287	4.22235	0.15547	0.01657	1.15729
6.13497	-17.60894	2.88285	-0.24128	-1.33008	0.90480	-0.00285	4.27789	0.15422	0.01678	1.16085
6.28141	-17.71572	2.88691	-0.23528	-1.33113	0.90770	-0.00285	4.30259	0.15415	0.01683	1.16514
6.42674	-17.82152	2.88880	-0.22921	-1.33119	0.91120	-0.00284	4.29004	0.15557	0.01662	1.16995
6.57895	-17.93209	2.89244	-0.22286	-1.33156	0.91429	-0.00284	4.28114	0.15690	0.01638	1.17535
6.73401	-18.04327	2.89807	-0.21680	-1.33221	0.91689	-0.00283	4.27975	0.15782	0.01618	1.18112
6.89180	-18.14695	2.90050	-0.21142	-1.33172	0.92052	-0.00283	4.24514	0.15980	0.01573	1.18782
7.05716	-18.25142	2.90038	-0.20587	-1.33015	0.92536	-0.00283	4.17273	0.16318	0.01492	1.19597
7.22022	-18.35681	2.90245	-0.20033	-1.32900	0.92982	-0.00284	4.10646	0.16636	0.01407	1.20430
7.39098	-18.47017	2.90770	-0.19463	-1.32851	0.93400	-0.00284	4.05235	0.16911	0.01326	1.21274
7.56430	-18.57304	2.91109	-0.18978	-1.32772	0.93757	-0.00284	3.99747	0.17183	0.01246	1.22090
7.73994	-18.65809	2.90842	-0.18570	-1.32552	0.94080	-0.00285	3.91108	0.17580	0.01137	1.22992
7.92393	-18.74994	2.90737	-0.18125	-1.32350	0.94382	-0.00286	3.82278	0.18001	0.01014	1.23936
8.11030	-18.84727	2.90885	-0.17666	-1.32196	0.94646	-0.00286	3.74367	0.18393	0.00896	1.24829
8.29876	-18.95447	2.91436	-0.17180	-1.32124	0.94897	-0.00285	3.68107	0.18721	0.00796	1.25619
8.49618	-19.03923	2.91446	-0.16828	-1.32001	0.95090	-0.00285	3.62253	0.19024	0.00709	1.26345
8.69565	-19.09450	2.90721	-0.16611	-1.31778	0.95191	-0.00286	3.55395	0.19367	0.00613	1.27099
8.90472	-19.16170	2.90292	-0.16339	-1.31596	0.95278	-0.00286	3.48826	0.19709	0.00516	1.27860
9.11577	-19.23071	2.90008	-0.16064	-1.31456	0.95358	-0.00286	3.43150	0.20017	0.00429	1.28578
9.32836	-19.31935	2.90257	-0.15688	-1.31389	0.95480	-0.00286	3.38107	0.20305	0.00349	1.29267
9.54198	-19.39954	2.90428	-0.15384	-1.31342	0.95588	-0.00285	3.34275	0.20532	0.00287	1.29890
9.76563	-19.42407	2.89360	-0.15404	-1.31201	0.95548	-0.00285	3.31316	0.20697	0.00238	1.30519
10.00000	-19.44166	2.88141	-0.15473	-1.31057	0.95468	-0.00285	3.28552	0.20854	0.00189	1.31219

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
High stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 6 - 15 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	4.98690	2.51966	-0.06731	-4.19805	1.26121	0.00100	23.07502	0.20280	-0.02562	0.55702
PGV	17.55577	1.63093	-0.10081	-5.06247	1.23308	0.00164	38.72424	0.17414	-0.00663	0.48980
PGA	5.35002	1.50367	-0.07056	-3.11718	0.38660	-0.00050	8.67987	0.42788	-0.02051	0.76211
0.01000	5.34259	1.50948	-0.06792	-3.10811	0.36631	-0.00052	8.63339	0.43216	0.01434	0.65091
0.01024	5.34921	1.51003	-0.06756	-3.10896	0.36508	-0.00052	8.63477	0.43243	0.01431	0.65156
0.01048	5.35771	1.51062	-0.06719	-3.11013	0.36381	-0.00052	8.63861	0.43269	0.01428	0.65222
0.01072	5.36813	1.51127	-0.06679	-3.11161	0.36248	-0.00052	8.64487	0.43294	0.01424	0.65290
0.01097	5.38047	1.51199	-0.06635	-3.11342	0.36107	-0.00051	8.65344	0.43319	0.01419	0.65359
0.01123	5.39488	1.51277	-0.06588	-3.11555	0.35956	-0.00051	8.66456	0.43344	0.01414	0.65433
0.01150	5.41097	1.51362	-0.06536	-3.11794	0.35794	-0.00051	8.67752	0.43369	0.01407	0.65511
0.01177	5.42825	1.51454	-0.06480	-3.12048	0.35615	-0.00051	8.69135	0.43397	0.01400	0.65595
0.01205	5.44705	1.51556	-0.06418	-3.12324	0.35416	-0.00051	8.70630	0.43429	0.01392	0.65687
0.01233	5.46792	1.51669	-0.06351	-3.12631	0.35195	-0.00050	8.72305	0.43464	0.01381	0.65792
0.01262	5.49070	1.51794	-0.06276	-3.12964	0.34951	-0.00050	8.74120	0.43502	0.01370	0.65908
0.01292	5.51549	1.51934	-0.06194	-3.13328	0.34687	-0.00050	8.76071	0.43546	0.01357	0.66032
0.01322	5.54257	1.52094	-0.06104	-3.13727	0.34402	-0.00049	8.78193	0.43595	0.01345	0.66159
0.01353	5.57054	1.52275	-0.06003	-3.14136	0.34087	-0.00049	8.80254	0.43653	0.01334	0.66285
0.01385	5.59731	1.52479	-0.05891	-3.14512	0.33738	-0.00049	8.81913	0.43726	0.01323	0.66420
0.01417	5.62311	1.52708	-0.05766	-3.14859	0.33354	-0.00049	8.83149	0.43816	0.01309	0.66578
0.01451	5.65018	1.52966	-0.05626	-3.15219	0.32926	-0.00049	8.84259	0.43919	0.01293	0.66768
0.01485	5.67908	1.53252	-0.05469	-3.15599	0.32448	-0.00049	8.85333	0.44035	0.01273	0.66996
0.01520	5.70554	1.53561	-0.05296	-3.15912	0.31908	-0.00049	8.85741	0.44173	0.01250	0.67265
0.01556	5.72543	1.53891	-0.05106	-3.16078	0.31285	-0.00049	8.84836	0.44343	0.01226	0.67560
0.01592	5.73966	1.54243	-0.04900	-3.16109	0.30569	-0.00050	8.82750	0.44543	0.01205	0.67860
0.01630	5.75247	1.54631	-0.04679	-3.16090	0.29783	-0.00051	8.80127	0.44768	0.01184	0.68177
0.01668	5.76262	1.55069	-0.04442	-3.16008	0.28930	-0.00051	8.76736	0.45023	0.01161	0.68542
0.01707	5.76215	1.55563	-0.04185	-3.15717	0.27980	-0.00052	8.71463	0.45325	0.01131	0.68974
0.01748	5.74557	1.56108	-0.03900	-3.15104	0.26897	-0.00054	8.63666	0.45685	0.01097	0.69448
0.01789	5.70799	1.56692	-0.03589	-3.14092	0.25608	-0.00056	8.52332	0.46118	0.01069	0.69915
0.01831	5.63719	1.57332	-0.03254	-3.12523	0.24101	-0.00058	8.34922	0.46658	0.01052	0.70329
0.01874	5.52135	1.58059	-0.02899	-3.10253	0.22502	-0.00061	8.09588	0.47333	0.01054	0.70645
0.01918	5.35695	1.58846	-0.02525	-3.07202	0.20948	-0.00066	7.76887	0.48137	0.01073	0.70852
0.01963	5.15103	1.59630	-0.02134	-3.03435	0.19537	-0.00071	7.39264	0.49036	0.01102	0.70996
0.02009	4.92462	1.60368	-0.01728	-2.99297	0.18333	-0.00078	7.00517	0.49969	0.01135	0.71108
0.02057	4.70134	1.61030	-0.01308	-2.95180	0.17301	-0.00084	6.64204	0.50878	0.01177	0.71162
0.02105	4.49419	1.61616	-0.00885	-2.91283	0.16345	-0.00091	6.32136	0.51731	0.01229	0.71149
0.02154	4.30635	1.62169	-0.00488	-2.87672	0.15311	-0.00096	6.04200	0.52537	0.01285	0.71112
0.02205	4.12318	1.62762	-0.00143	-2.84171	0.14035	-0.00101	5.77368	0.53362	0.01348	0.71051
0.02257	3.91510	1.63428	0.00156	-2.80360	0.12480	-0.00105	5.47028	0.54307	0.01427	0.70890
0.02310	3.66287	1.64109	0.00437	-2.75903	0.10754	-0.00109	5.11153	0.55419	0.01526	0.70591
0.02364	3.37627	1.64746	0.00735	-2.70917	0.09006	-0.00113	4.72251	0.56653	0.01627	0.70230
0.02420	3.07921	1.65312	0.01071	-2.65753	0.07362	-0.00118	4.34321	0.57923	0.01719	0.69868
0.02477	2.79089	1.65794	0.01446	-2.60695	0.05932	-0.00123	4.00005	0.59150	0.01812	0.69439
0.02535	2.53447	1.66194	0.01826	-2.56144	0.04748	-0.00129	3.71248	0.60258	0.01928	0.68830
0.02595	2.33993	1.66471	0.02134	-2.52620	0.03664	-0.00132	3.49599	0.61162	0.02068	0.68059
0.02656	2.21413	1.66578	0.02322	-2.50231	0.02594	-0.00133	3.34532	0.61837	0.02198	0.67350
0.02719	2.12435	1.66566	0.02428	-2.48428	0.01736	-0.00132	3.23119	0.62362	0.02278	0.66963
0.02783	2.02924	1.66515	0.02524	-2.46519	0.01284	-0.00134	3.12141	0.62852	0.02302	0.66934
0.02848	1.90191	1.66425	0.02646	-2.44040	0.01122	-0.00137	2.99062	0.63417	0.02301	0.67067
0.02915	1.74531	1.66280	0.02780	-2.41057	0.01042	-0.00141	2.83741	0.64082	0.02311	0.67135
0.02984	1.58769	1.66138	0.02900	-2.38113	0.01007	-0.00145	2.68673	0.64758	0.02344	0.67047
0.03054	1.46734	1.66108	0.02973	-2.35934	0.01169	-0.00148	2.57356	0.65286	0.02390	0.66852
0.03126	1.40781	1.66206	0.02962	-2.34916	0.01607	-0.00151	2.51625	0.65554	0.02431	0.66688
0.03199	1.40719	1.66314	0.02860	-2.34926	0.02202	-0.00152	2.50932	0.65567	0.02462	0.66592
0.03275	1.45029	1.66323	0.02689	-2.35611	0.02826	-0.00152	2.53856	0.65384	0.02505	0.66434
0.03352	1.51779	1.66157	0.02477	-2.36573	0.03425	-0.00151	2.58888	0.65078	0.02576	0.66100
0.03430	1.57891	1.65796	0.02261	-2.37252	0.03923	-0.00151	2.63531	0.64774	0.02679	0.65571
0.03511	1.60342	1.65293	0.02067	-2.37171	0.04194	-0.00150	2.65028	0.64617	0.02815	0.64851
0.03594	1.58262	1.64768	0.01899	-2.36292	0.04134	-0.00149	2.62248	0.64680	0.02984	0.63966
0.03678	1.53770	1.64346	0.01739	-2.35113	0.03777	-0.00148	2.56760	0.64901	0.03166	0.63033
0.03765	1.48782	1.64099	0.01591	-2.34041	0.03330	-0.00146	2.50467	0.65189	0.03332	0.62209
0.03854	1.43098	1.63991	0.01482	-2.32992	0.02996	-0.00145	2.43818	0.65506	0.03463	0.61589
0.03944	1.35675	1.63971	0.01427	-2.31708	0.02820	-0.00146	2.36379	0.65872	0.03566	0.61124
0.04037	1.26626	1.64033	0.01400	-2.30196	0.02719	-0.00148	2.28182	0.66294	0.03657	0.60711
0.04132	1.16613	1.64114	0.01358	-2.28541	0.02576	-0.00150	2.19398	0.66765	0.03739	0.60338
0.04229	1.05903	1.64090	0.01287	-2.26703	0.02329	-0.00152	2.10064	0.67275	0.03799	0.60084
0.04329	0.95236	1.63859	0.01196	-2.24725	0.02025	-0.00153	2.00866	0.67774	0.03826	0.60014
0.04431	0.85615	1.63421	0.01098	-2.22758	0.01771	-0.00154	1.92783	0.68195	0.03814	0.60161
0.04535	0.78129	1.62890	0.00997	-2.21072	0.01739	-0.00155	1.86768	0.68476	0.03765	0.60503

0.04642	0.73543	1.62416	0.00893	-2.19935	0.02032	-0.00157	1.83333	0.68581	0.03693	0.60937
0.04751	0.71808	1.62057	0.00778	-2.19397	0.02546	-0.00158	1.82210	0.68533	0.03621	0.61328
0.04863	0.71511	1.61757	0.00648	-2.19168	0.03099	-0.00158	1.82196	0.68413	0.03561	0.61606
0.04977	0.70358	1.61437	0.00505	-2.18771	0.03582	-0.00159	1.81583	0.68337	0.03524	0.61727
0.05094	0.67720	1.61058	0.00334	-2.18059	0.03965	-0.00159	1.79849	0.68338	0.03518	0.61664
0.05214	0.64788	1.60650	0.00113	-2.17264	0.04278	-0.00159	1.77815	0.68360	0.03544	0.61420
0.05337	0.62250	1.60253	-0.00158	-2.16538	0.04503	-0.00159	1.76030	0.68369	0.03599	0.61004
0.05462	0.59598	1.59838	-0.00462	-2.15764	0.04558	-0.00159	1.74140	0.68385	0.03674	0.60476
0.05591	0.55742	1.59277	-0.00787	-2.14645	0.04383	-0.00159	1.71312	0.68457	0.03751	0.59949
0.05722	0.50163	1.58419	-0.01145	-2.12959	0.03960	-0.00159	1.67095	0.68601	0.03809	0.59555
0.05857	0.43056	1.57208	-0.01539	-2.10688	0.03293	-0.00158	1.61615	0.68811	0.03836	0.59397
0.05995	0.36014	1.55734	-0.01967	-2.08195	0.02466	-0.00157	1.56018	0.69014	0.03829	0.59524
0.06136	0.30190	1.54183	-0.02404	-2.05848	0.01594	-0.00155	1.51265	0.69152	0.03794	0.59874
0.06280	0.25196	1.52771	-0.02804	-2.03767	0.00831	-0.00153	1.47383	0.69237	0.03749	0.60306
0.06428	0.19250	1.51649	-0.03118	-2.01762	0.00266	-0.00152	1.43455	0.69359	0.03706	0.60710
0.06579	0.10855	1.50803	-0.03336	-1.99551	-0.00191	-0.00153	1.38491	0.69611	0.03668	0.61045
0.06734	-0.00925	1.50096	-0.03487	-1.96858	-0.00729	-0.00156	1.31675	0.70070	0.03640	0.61272
0.06893	-0.15341	1.49425	-0.03618	-1.93744	-0.01412	-0.00159	1.23369	0.70717	0.03623	0.61396
0.07055	-0.30213	1.48765	-0.03772	-1.90591	-0.02156	-0.00162	1.14940	0.71427	0.03607	0.61494
0.07221	-0.43111	1.48136	-0.03977	-1.87865	-0.02781	-0.00164	1.07844	0.72034	0.03580	0.61647
0.07391	-0.52456	1.47580	-0.04242	-1.85885	-0.03106	-0.00165	1.02953	0.72406	0.03535	0.61889
0.07565	-0.57293	1.47148	-0.04561	-1.84858	-0.03012	-0.00166	1.00788	0.72450	0.03467	0.62244
0.07743	-0.57510	1.46869	-0.04929	-1.84825	-0.02450	-0.00166	1.01379	0.72149	0.03386	0.62677
0.07925	-0.53487	1.46741	-0.05340	-1.85714	-0.01517	-0.00165	1.04491	0.71545	0.03302	0.63137
0.08111	-0.46365	1.46756	-0.05783	-1.87304	-0.00356	-0.00164	1.09543	0.70740	0.03223	0.63580
0.08302	-0.37873	1.46878	-0.06236	-1.89236	0.00912	-0.00163	1.15638	0.69865	0.03156	0.63964
0.08498	-0.30070	1.47031	-0.06680	-1.91057	0.02148	-0.00163	1.21528	0.69059	0.03112	0.64212
0.08697	-0.24438	1.47150	-0.07105	-1.92439	0.03260	-0.00163	1.26163	0.68413	0.03099	0.64274
0.08902	-0.20953	1.47215	-0.07512	-1.93370	0.04239	-0.00163	1.29444	0.67920	0.03111	0.64207
0.09112	-0.19309	1.47229	-0.07899	-1.93901	0.05116	-0.00164	1.31548	0.67550	0.03133	0.64117
0.09326	-0.18595	1.47221	-0.08271	-1.94229	0.05930	-0.00164	1.33065	0.67245	0.03153	0.64091
0.09545	-0.17990	1.47212	-0.08630	-1.94525	0.06686	-0.00165	1.34521	0.66955	0.03159	0.64204
0.09770	-0.17317	1.47204	-0.08978	-1.94830	0.07388	-0.00165	1.36027	0.66670	0.03149	0.64465
0.10000	-0.17008	1.47175	-0.09310	-1.95039	0.08033	-0.00165	1.37351	0.66405	0.03123	0.64874
0.10235	-0.17724	1.47120	-0.09617	-1.95027	0.08692	-0.00166	1.38162	0.66185	0.03086	0.65370
0.10476	-0.20121	1.47076	-0.09891	-1.94707	0.09419	-0.00167	1.38106	0.66042	0.03063	0.65789
0.10723	-0.24248	1.47092	-0.10134	-1.94113	0.10224	-0.00169	1.37189	0.65983	0.03070	0.66006
0.10975	-0.29826	1.47179	-0.10349	-1.93313	0.11070	-0.00172	1.35547	0.65999	0.03112	0.65982
0.11233	-0.36540	1.47308	-0.10543	-1.92340	0.11896	-0.00176	1.33306	0.66079	0.03179	0.65782
0.11498	-0.43345	1.47455	-0.10733	-1.91372	0.12714	-0.00179	1.31073	0.66163	0.03259	0.65483
0.11768	-0.49404	1.47591	-0.10932	-1.90531	0.13551	-0.00182	1.29335	0.66201	0.03333	0.65201
0.12045	-0.53999	1.47719	-0.11143	-1.89958	0.14460	-0.00184	1.28497	0.66151	0.03397	0.64964
0.12328	-0.56690	1.47833	-0.11369	-1.89724	0.15426	-0.00186	1.28840	0.65985	0.03442	0.64824
0.12619	-0.56946	1.47943	-0.11616	-1.89935	0.16504	-0.00187	1.30726	0.65669	0.03457	0.64835
0.12916	-0.54463	1.48049	-0.11882	-1.90654	0.17719	-0.00187	1.34402	0.65186	0.03438	0.65033
0.13219	-0.49761	1.48129	-0.12166	-1.91772	0.18989	-0.00187	1.39558	0.64574	0.03381	0.65445
0.13531	-0.43687	1.48172	-0.12463	-1.93126	0.20203	-0.00186	1.45660	0.63896	0.03292	0.66028
0.13849	-0.37262	1.48159	-0.12767	-1.94493	0.21214	-0.00184	1.52056	0.63217	0.03180	0.66735
0.14175	-0.31233	1.48052	-0.13072	-1.95681	0.21942	-0.00182	1.58285	0.62574	0.03046	0.67571
0.14508	-0.25803	1.47853	-0.13376	-1.96666	0.22443	-0.00179	1.64195	0.61971	0.02903	0.68451
0.14850	-0.20745	1.47593	-0.13676	-1.97527	0.22858	-0.00175	1.70031	0.61382	0.02764	0.69311
0.15199	-0.16306	1.47283	-0.13968	-1.98237	0.23251	-0.00172	1.75634	0.60814	0.02642	0.70082
0.15557	-0.13122	1.46925	-0.14247	-1.98672	0.23629	-0.00170	1.80532	0.60297	0.02540	0.70739
0.15923	-0.11791	1.46507	-0.14515	-1.98708	0.23935	-0.00167	1.84197	0.59858	0.02458	0.71301
0.16298	-0.12374	1.46038	-0.14772	-1.98353	0.24210	-0.00166	1.86515	0.59497	0.02389	0.71809
0.16681	-0.14570	1.45538	-0.15023	-1.97684	0.24517	-0.00165	1.87707	0.59193	0.02326	0.72311
0.17074	-0.18602	1.45003	-0.15262	-1.96648	0.24861	-0.00165	1.87632	0.58953	0.02263	0.72827
0.17475	-0.24645	1.44433	-0.15490	-1.95215	0.25159	-0.00166	1.86057	0.58794	0.02207	0.73322
0.17887	-0.31557	1.43881	-0.15723	-1.93655	0.25419	-0.00168	1.83883	0.58664	0.02157	0.73790
0.18307	-0.39141	1.43393	-0.15963	-1.92060	0.25683	-0.00170	1.81223	0.58562	0.02118	0.74194
0.18738	-0.47146	1.42943	-0.16217	-1.90456	0.25823	-0.00172	1.78201	0.58480	0.02082	0.74586
0.19179	-0.54920	1.42559	-0.16491	-1.88981	0.25986	-0.00173	1.75448	0.58379	0.02043	0.74995
0.19631	-0.62256	1.42218	-0.16794	-1.87641	0.26172	-0.00176	1.73116	0.58248	0.02000	0.75430
0.20092	-0.68665	1.41980	-0.17123	-1.86609	0.26387	-0.00177	1.71574	0.58065	0.01954	0.75860
0.20565	-0.74051	1.41833	-0.17473	-1.85891	0.26651	-0.00179	1.70988	0.57816	0.01899	0.76336
0.21049	-0.78835	1.41753	-0.17849	-1.85374	0.26929	-0.00181	1.71067	0.57520	0.01835	0.76853
0.21544	-0.83212	1.41690	-0.18257	-1.84985	0.27129	-0.00182	1.71581	0.57184	0.01773	0.77358
0.22051	-0.86830	1.41613	-0.18709	-1.84781	0.27221	-0.00182	1.72779	0.56783	0.01716	0.77838
0.22570	-0.89976	1.41573	-0.19190	-1.84742	0.27276	-0.00181	1.74596	0.56332	0.01666	0.78270
0.23101	-0.93257	1.41533	-0.19687	-1.84726	0.27118	-0.00180	1.76449	0.55868	0.01625	0.78646
0.23645	-0.96518	1.41522	-0.20204	-1.84771	0.26986	-0.00178	1.78622	0.55375	0.01593	0.78953
0.24201	-0.99252	1.41566	-0.20750	-1.84990	0.26925	-0.00176	1.81574	0.54834	0.01572	0.79205
0.24771	-1.01765	1.41604	-0.21325	-1.85262	0.26926	-0.00175	1.85106	0.54245	0.01555	0.79454
0.25354	-1.04626	1.41640	-0.21927	-1.85502	0.26914	-0.00173	1.88631	0.53646	0.01564	0.79557
0.25950	-1.08465	1.41710	-0.22543	-1.85622	0.26890	-0.00171	1.91593	0.53076	0.01609	0.79413
0.26561	-1.13564	1.41807	-0.23161	-1.85548	0.26900	-0.00170	1.93761	0.52548	0.01680	0.79095
0.27186	-1.20088	1.41892	-0.23782	-1.85197	0.26846	-0.00169	1.94889	0.52073	0.01752	0.78746
0.27826	-1.28406	1.41908	-0.24403	-1.84440	0.26581	-0.00169	1.94504	0.51669	0.01802	0.78521
0.28480	-1.38367	1.41845	-0.25022	-1.83282	0.26152	-0.00169	1.92717	0.51327	0.01810	0.78530
0.29150	-1.49577	1.41740	-0.25635	-1.81835	0.25663	-0.00169	1.89911	0.51030	0.01777	0.78760
0.29836	-1.62274	1.41575	-0.26240	-1.80048	0.24995	-0.00170	1.85769	0.50795	0.01716	0.79104

0.30539	-1.76461	1.41401	-0.26838	-1.77959	0.24281	-0.00171	1.80369	0.50628	0.01631	0.79539
0.31257	-1.91921	1.41254	-0.27428	-1.75630	0.23743	-0.00174	1.74062	0.50521	0.01536	0.79981
0.31993	-2.07898	1.41129	-0.28031	-1.73221	0.23198	-0.00177	1.67513	0.50433	0.01454	0.80296
0.32745	-2.24280	1.41044	-0.28641	-1.70768	0.22494	-0.00180	1.60822	0.50369	0.01402	0.80359
0.33517	-2.41368	1.40997	-0.29243	-1.68217	0.21660	-0.00183	1.53789	0.50343	0.01378	0.80199
0.34304	-2.58391	1.41032	-0.29843	-1.65754	0.20928	-0.00186	1.47146	0.50314	0.01386	0.79798
0.35112	-2.75636	1.41160	-0.30437	-1.63328	0.20348	-0.00190	1.40707	0.50297	0.01433	0.79124
0.35938	-2.92903	1.41376	-0.31012	-1.60982	0.19858	-0.00194	1.34573	0.50287	0.01516	0.78199
0.36784	-3.10161	1.41658	-0.31569	-1.58709	0.19423	-0.00198	1.28792	0.50269	0.01621	0.77125
0.37649	-3.27202	1.41996	-0.32106	-1.56537	0.19087	-0.00202	1.23525	0.50222	0.01736	0.75988
0.38536	-3.43756	1.42380	-0.32624	-1.54518	0.18845	-0.00206	1.18950	0.50129	0.01851	0.74853
0.39442	-3.59662	1.42807	-0.33127	-1.52676	0.18680	-0.00210	1.15160	0.49974	0.01959	0.73775
0.40370	-3.75074	1.43266	-0.33621	-1.50967	0.18548	-0.00213	1.12039	0.49758	0.02062	0.72737
0.41321	-3.90043	1.43724	-0.34109	-1.49343	0.18364	-0.00216	1.09472	0.49485	0.02163	0.71724
0.42292	-4.04533	1.44183	-0.34592	-1.47812	0.18134	-0.00218	1.07455	0.49154	0.02253	0.70799
0.43288	-4.18598	1.44674	-0.35074	-1.46392	0.17975	-0.00220	1.06025	0.48762	0.02334	0.69956
0.44307	-4.32260	1.45187	-0.35548	-1.45074	0.17860	-0.00222	1.05112	0.48313	0.02413	0.69153
0.45349	-4.45497	1.45705	-0.36018	-1.43844	0.17817	-0.00224	1.04693	0.47809	0.02492	0.68391
0.46417	-4.58411	1.46237	-0.36479	-1.42692	0.17842	-0.00226	1.04712	0.47255	0.02566	0.67691
0.47508	-4.71092	1.46805	-0.36923	-1.41618	0.17929	-0.00227	1.05133	0.46662	0.02634	0.67064
0.48626	-4.83526	1.47400	-0.37353	-1.40619	0.18083	-0.00229	1.05939	0.46031	0.02695	0.66522
0.49771	-4.95661	1.48001	-0.37770	-1.39688	0.18304	-0.00231	1.07128	0.45365	0.02747	0.66076
0.50942	-5.07587	1.48622	-0.38172	-1.38818	0.18589	-0.00232	1.08667	0.44669	0.02790	0.65717
0.52140	-5.19413	1.49282	-0.38556	-1.38004	0.18931	-0.00234	1.10512	0.43951	0.02827	0.65426
0.53367	-5.31163	1.49970	-0.38926	-1.37230	0.19317	-0.00236	1.12616	0.43217	0.02860	0.65187
0.54624	-5.42800	1.50659	-0.39285	-1.36481	0.19734	-0.00237	1.14927	0.42472	0.02888	0.64997
0.55910	-5.54337	1.51353	-0.39632	-1.35758	0.20188	-0.00239	1.17455	0.41715	0.02912	0.64850
0.57225	-5.65863	1.52080	-0.39962	-1.35070	0.20688	-0.00241	1.20209	0.40950	0.02931	0.64734
0.58569	-5.77403	1.52850	-0.40272	-1.34419	0.21234	-0.00243	1.23170	0.40182	0.02946	0.64646
0.59948	-5.88900	1.53642	-0.40567	-1.33805	0.21829	-0.00244	1.26384	0.39408	0.02958	0.64591
0.61357	-6.00185	1.54431	-0.40849	-1.33235	0.22473	-0.00246	1.29888	0.38626	0.02965	0.64582
0.62802	-6.11344	1.55231	-0.41118	-1.32712	0.23171	-0.00248	1.33724	0.37835	0.02967	0.64622
0.64280	-6.22461	1.56070	-0.41369	-1.32237	0.23924	-0.00250	1.37858	0.37041	0.02963	0.64710
0.65794	-6.33596	1.56957	-0.41602	-1.31811	0.24730	-0.00252	1.42282	0.36249	0.02954	0.64847
0.67340	-6.44642	1.57868	-0.41820	-1.31428	0.25580	-0.00254	1.46980	0.35460	0.02940	0.65037
0.68927	-6.55560	1.58780	-0.42027	-1.31085	0.26473	-0.00256	1.52001	0.34671	0.02923	0.65287
0.70547	-6.66293	1.59687	-0.42223	-1.30779	0.27398	-0.00258	1.57315	0.33887	0.02903	0.65580
0.72207	-6.77021	1.60616	-0.42403	-1.30506	0.28356	-0.00260	1.62913	0.33108	0.02881	0.65891
0.73910	-6.87864	1.61592	-0.42565	-1.30261	0.29336	-0.00263	1.68738	0.32341	0.02856	0.66185
0.75649	-6.98818	1.62611	-0.42708	-1.30036	0.30324	-0.00265	1.74703	0.31593	0.02830	0.66428
0.77429	-7.09825	1.63652	-0.42836	-1.29826	0.31314	-0.00267	1.80821	0.30862	0.02805	0.66584
0.79246	-7.20743	1.64685	-0.42953	-1.29630	0.32300	-0.00269	1.87088	0.30149	0.02783	0.66629
0.81116	-7.31657	1.65714	-0.43060	-1.29447	0.33292	-0.00271	1.93590	0.29443	0.02764	0.66578
0.83022	-7.42555	1.66745	-0.43153	-1.29272	0.34273	-0.00273	2.00190	0.28757	0.02745	0.66463
0.84976	-7.53660	1.67811	-0.43229	-1.29096	0.35243	-0.00274	2.06817	0.28093	0.02725	0.66318
0.86972	-7.64996	1.68920	-0.43285	-1.28914	0.36193	-0.00276	2.13373	0.27454	0.02702	0.66180
0.89023	-7.76614	1.70071	-0.43324	-1.28723	0.37126	-0.00278	2.19873	0.26839	0.02676	0.66095
0.91116	-7.88325	1.71234	-0.43349	-1.28526	0.38033	-0.00280	2.26268	0.26250	0.02647	0.66103
0.93257	-8.00077	1.72391	-0.43362	-1.28320	0.38918	-0.00282	2.32588	0.25683	0.02617	0.66211
0.95456	-8.11891	1.73537	-0.43363	-1.28105	0.39782	-0.00283	2.38837	0.25136	0.02585	0.66415
0.97704	-8.23758	1.74679	-0.43351	-1.27882	0.40625	-0.00285	2.44965	0.24613	0.02552	0.66710
1.00000	-8.35753	1.75838	-0.43323	-1.27654	0.41448	-0.00287	2.50937	0.24114	0.02516	0.67087
1.02354	-8.47991	1.77038	-0.43277	-1.27423	0.42255	-0.00288	2.56743	0.23639	0.02477	0.67538
1.04767	-8.60483	1.78283	-0.43214	-1.27189	0.43048	-0.00290	2.62359	0.23189	0.02436	0.68050
1.07227	-8.73124	1.79558	-0.43135	-1.26954	0.43822	-0.00291	2.67740	0.22766	0.02392	0.68607
1.09745	-8.85872	1.80851	-0.43043	-1.26719	0.44581	-0.00293	2.72924	0.22366	0.02348	0.69197
1.12334	-8.98683	1.82148	-0.42940	-1.26488	0.45332	-0.00294	2.77979	0.21986	0.02306	0.69815
1.14982	-9.11424	1.83429	-0.42829	-1.26266	0.46076	-0.00296	2.82916	0.21627	0.02265	0.70447
1.17675	-9.24015	1.84688	-0.42710	-1.26054	0.46811	-0.00297	2.87723	0.21289	0.02226	0.71080
1.20453	-9.36681	1.85955	-0.42580	-1.25853	0.47550	-0.00298	2.92465	0.20967	0.02189	0.71710
1.23289	-9.49359	1.87231	-0.42438	-1.25665	0.48287	-0.00300	2.97053	0.20667	0.02153	0.72318
1.26183	-9.62106	1.88531	-0.42283	-1.25488	0.49020	-0.00301	3.01435	0.20390	0.02116	0.72900
1.29149	-9.75022	1.89867	-0.42113	-1.25320	0.49751	-0.00302	3.05595	0.20135	0.02077	0.73470
1.32188	-9.88098	1.91240	-0.41930	-1.25159	0.50481	-0.00303	3.09516	0.19903	0.02037	0.74035
1.35300	-10.01290	1.92638	-0.41734	-1.25006	0.51207	-0.00305	3.13199	0.19691	0.01995	0.74604
1.38485	-10.14538	1.94049	-0.41528	-1.24860	0.51928	-0.00306	3.16645	0.19498	0.01953	0.75189
1.41743	-10.27780	1.95456	-0.41314	-1.24718	0.52643	-0.00307	3.19847	0.19325	0.01911	0.75803
1.45075	-10.40964	1.96849	-0.41093	-1.24580	0.53352	-0.00308	3.22815	0.19170	0.01869	0.76451
1.48500	-10.54145	1.98230	-0.40864	-1.24446	0.54057	-0.00309	3.25571	0.19031	0.01827	0.77139
1.51999	-10.67247	1.99591	-0.40629	-1.24316	0.54755	-0.00310	3.28089	0.18909	0.01785	0.77859
1.55569	-10.80293	2.00939	-0.40386	-1.24190	0.55445	-0.00311	3.30359	0.18804	0.01744	0.78612
1.59236	-10.93406	2.02291	-0.40132	-1.24066	0.56132	-0.00312	3.32399	0.18713	0.01701	0.79401
1.62973	-11.06529	2.03648	-0.39868	-1.23947	0.56813	-0.00313	3.34194	0.18638	0.01657	0.80217
1.66806	-11.19785	2.05026	-0.39591	-1.23832	0.57489	-0.00314	3.35755	0.18576	0.01612	0.81063
1.70736	-11.33181	2.06430	-0.39302	-1.23720	0.58162	-0.00315	3.37101	0.18528	0.01565	0.81939
1.74764	-11.46708	2.07858	-0.38999	-1.23613	0.58833	-0.00315	3.38266	0.18490	0.01516	0.82843
1.78859	-11.60236	2.09296	-0.38686	-1.23513	0.59496	-0.00316	3.39267	0.18463	0.01467	0.83765
1.83083	-11.73931	2.10760	-0.38361	-1.23419	0.60161	-0.00317	3.40151	0.18443	0.01417	0.84719
1.87371	-11.87535	2.12217	-0.38028	-1.23334	0.60818	-0.00318	3.40925	0.18431	0.01368	0.85686
1.91791	-12.01224	2.13683	-0.37685	-1.23255	0.61476	-0.00318	3.41613	0.18425	0.01320	0.86674
1.96309	-12.14847	2.15137	-0.37335	-1.23185	0.62131	-0.00319	3.42231	0.18426	0.01272	0.87665

2.00924	-12.28373	2.16574	-0.36979	-1.23123	0.62781	-0.00320	3.42794	0.18431	0.01227	0.88646
2.05634	-12.41777	2.17990	-0.36617	-1.23070	0.63427	-0.00320	3.43313	0.18442	0.01184	0.89602
2.10482	-12.55167	2.19396	-0.36247	-1.23027	0.64074	-0.00321	3.43793	0.18458	0.01142	0.90528
2.15424	-12.68427	2.20781	-0.35871	-1.22993	0.64715	-0.00321	3.44232	0.18479	0.01103	0.91398
2.20507	-12.81690	2.22161	-0.35486	-1.22967	0.65357	-0.00322	3.44629	0.18504	0.01065	0.92207
2.25683	-12.94847	2.23527	-0.35094	-1.22950	0.65991	-0.00322	3.44982	0.18534	0.01028	0.92956
2.31000	-13.08038	2.24894	-0.34693	-1.22941	0.66624	-0.00322	3.45298	0.18568	0.00991	0.93659
2.36463	-13.21279	2.26268	-0.34281	-1.22938	0.67256	-0.00323	3.45572	0.18606	0.00955	0.94328
2.42014	-13.34445	2.27638	-0.33863	-1.22943	0.67879	-0.00323	3.45811	0.18646	0.00920	0.94967
2.47709	-13.47671	2.29016	-0.33434	-1.22955	0.68499	-0.00323	3.46035	0.18688	0.00884	0.95597
2.53550	-13.60954	2.30405	-0.32995	-1.22974	0.69115	-0.00323	3.46248	0.18731	0.00848	0.96236
2.59471	-13.74144	2.31790	-0.32553	-1.22998	0.69722	-0.00323	3.46454	0.18774	0.00812	0.96887
2.65604	-13.87517	2.33195	-0.32095	-1.23029	0.70330	-0.00324	3.46687	0.18816	0.00776	0.97571
2.71887	-14.00907	2.34607	-0.31631	-1.23067	0.70934	-0.00324	3.46937	0.18858	0.00740	0.98287
2.78242	-14.14151	2.36005	-0.31165	-1.23110	0.71526	-0.00324	3.47210	0.18898	0.00704	0.99030
2.84819	-14.27519	2.37413	-0.30686	-1.23160	0.72117	-0.00324	3.47545	0.18935	0.00669	0.99825
2.91545	-14.40854	2.38822	-0.30205	-1.23215	0.72704	-0.00323	3.47900	0.18971	0.00635	1.00667
2.98329	-14.53950	2.40194	-0.29721	-1.23276	0.73274	-0.00323	3.48324	0.19003	0.00602	1.01537
3.05344	-14.67120	2.41577	-0.29234	-1.23342	0.73846	-0.00323	3.48777	0.19033	0.00570	1.02432
3.12598	-14.80368	2.42955	-0.28731	-1.23416	0.74414	-0.00323	3.49308	0.19061	0.00539	1.03336
3.19898	-14.93297	2.44296	-0.28240	-1.23493	0.74968	-0.00323	3.49866	0.19086	0.00511	1.04196
3.27439	-15.06291	2.45633	-0.27734	-1.23577	0.75518	-0.00322	3.50490	0.19109	0.00483	1.05011
3.35121	-15.19104	2.46944	-0.27235	-1.23664	0.76059	-0.00322	3.51151	0.19129	0.00458	1.05755
3.43053	-15.31978	2.48250	-0.26721	-1.23758	0.76595	-0.00322	3.51870	0.19148	0.00433	1.06461
3.51124	-15.44643	2.49530	-0.26217	-1.23855	0.77123	-0.00321	3.52615	0.19164	0.00411	1.07140
3.59324	-15.57167	2.50776	-0.25700	-1.23957	0.77635	-0.00321	3.53409	0.19179	0.00389	1.07829
3.67782	-15.69677	2.52029	-0.25197	-1.24062	0.78150	-0.00320	3.54213	0.19191	0.00368	1.08564
3.76506	-15.82204	2.53247	-0.24662	-1.24175	0.78651	-0.00320	3.55098	0.19204	0.00347	1.09395
3.85356	-15.94579	2.54482	-0.24160	-1.24288	0.79152	-0.00319	3.55948	0.19213	0.00328	1.10285
3.94477	-16.06890	2.55654	-0.23620	-1.24408	0.79632	-0.00319	3.56891	0.19222	0.00307	1.11250
4.03714	-16.19127	2.56861	-0.23108	-1.24529	0.80113	-0.00318	3.57798	0.19229	0.00289	1.12227
4.13223	-16.31226	2.58016	-0.22585	-1.24655	0.80580	-0.00317	3.58778	0.19235	0.00271	1.13221
4.23012	-16.43445	2.59174	-0.22036	-1.24787	0.81039	-0.00316	3.59763	0.19242	0.00252	1.14197
4.32900	-16.55430	2.60354	-0.21541	-1.24917	0.81498	-0.00316	3.60766	0.19242	0.00236	1.15089
4.43066	-16.67290	2.61430	-0.20984	-1.25054	0.81927	-0.00315	3.61792	0.19248	0.00217	1.15944
4.53515	-16.79368	2.62601	-0.20458	-1.25195	0.82368	-0.00314	3.62835	0.19249	0.00201	1.16724
4.64253	-16.91241	2.63732	-0.19947	-1.25336	0.82799	-0.00313	3.63949	0.19245	0.00185	1.17447
4.75059	-17.02873	2.64761	-0.19375	-1.25482	0.83195	-0.00312	3.64968	0.19252	0.00165	1.18128
4.86145	-17.14721	2.65928	-0.18873	-1.25631	0.83611	-0.00311	3.66124	0.19245	0.00151	1.18731
4.97760	-17.26469	2.67015	-0.18349	-1.25782	0.84013	-0.00310	3.67317	0.19238	0.00134	1.19314
5.09424	-17.38011	2.68006	-0.17761	-1.25936	0.84384	-0.00309	3.68326	0.19247	0.00114	1.19873
5.21376	-17.49809	2.69174	-0.17263	-1.26095	0.84774	-0.00308	3.69626	0.19232	0.00100	1.20361
5.33618	-17.61161	2.70222	-0.16765	-1.26250	0.85143	-0.00307	3.70913	0.19219	0.00084	1.20836
5.46150	-17.72415	2.71128	-0.16163	-1.26407	0.85482	-0.00306	3.71830	0.19233	0.00061	1.21339
5.58971	-17.84052	2.72242	-0.15644	-1.26573	0.85837	-0.00305	3.73155	0.19218	0.00045	1.21795
5.72082	-17.95361	2.73351	-0.15195	-1.26738	0.86186	-0.00304	3.74759	0.19186	0.00034	1.22239
5.85823	-18.06423	2.74176	-0.14589	-1.26896	0.86503	-0.00303	3.75582	0.19203	0.00009	1.22784
5.99520	-18.17635	2.75128	-0.14017	-1.27062	0.86817	-0.00302	3.76620	0.19207	-0.00013	1.23312
6.13497	-18.29027	2.76296	-0.13579	-1.27237	0.87138	-0.00300	3.78502	0.19160	-0.00022	1.23792
6.28141	-18.39840	2.77200	-0.13084	-1.27400	0.87438	-0.00299	3.79846	0.19144	-0.00040	1.24344
6.42674	-18.50155	2.77870	-0.12465	-1.27550	0.87711	-0.00298	3.80209	0.19181	-0.00068	1.24963
6.57895	-18.61333	2.78832	-0.11913	-1.27723	0.87996	-0.00297	3.81404	0.19175	-0.00088	1.25558
6.73401	-18.72640	2.80011	-0.11510	-1.27905	0.88273	-0.00295	3.83733	0.19105	-0.00094	1.26093
6.89180	-18.82673	2.80742	-0.11023	-1.28057	0.88528	-0.00294	3.84764	0.19102	-0.00114	1.26717
7.05716	-18.92683	2.81249	-0.10372	-1.28206	0.88786	-0.00293	3.84551	0.19167	-0.00148	1.27441
7.22022	-19.03037	2.82032	-0.09824	-1.28368	0.89031	-0.00292	3.85349	0.19177	-0.00170	1.28076
7.39098	-19.14218	2.83162	-0.09407	-1.28550	0.89267	-0.00290	3.87684	0.19107	-0.00178	1.28624
7.56430	-19.24144	2.83974	-0.09011	-1.28707	0.89486	-0.00289	3.89405	0.19065	-0.00189	1.29172
7.73994	-19.32545	2.84133	-0.08397	-1.28831	0.89720	-0.00288	3.88208	0.19171	-0.00228	1.29836
7.92393	-19.41907	2.84548	-0.07792	-1.28980	0.89947	-0.00288	3.87787	0.19241	-0.00261	1.30439
8.11030	-19.51908	2.85247	-0.07270	-1.29139	0.90161	-0.00286	3.88443	0.19254	-0.00284	1.30937
8.29876	-19.62620	2.86326	-0.06903	-1.29310	0.90352	-0.00285	3.90931	0.19172	-0.00288	1.31294
8.49618	-19.71225	2.86722	-0.06478	-1.29444	0.90552	-0.00284	3.91286	0.19194	-0.00309	1.31738
8.69565	-19.77663	2.86365	-0.05865	-1.29558	0.90761	-0.00284	3.88722	0.19365	-0.00358	1.32325
8.90472	-19.85411	2.86390	-0.05286	-1.29705	0.90956	-0.00283	3.87636	0.19466	-0.00398	1.32849
9.11577	-19.93438	2.86567	-0.04754	-1.29856	0.91141	-0.00282	3.87168	0.19535	-0.00431	1.33333
9.32836	-20.03315	2.87334	-0.04311	-1.30015	0.91330	-0.00281	3.88056	0.19530	-0.00448	1.33719
9.54198	-20.11941	2.87881	-0.03965	-1.30150	0.91500	-0.00280	3.88942	0.19519	-0.00461	1.34107
9.76563	-20.15469	2.86991	-0.03525	-1.30263	0.91634	-0.00280	3.87193	0.19646	-0.00504	1.34743
10.00000	-20.18556	2.85959	-0.03053	-1.30390	0.91718	-0.00280	3.86145	0.19738	-0.00551	1.35463

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
High stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 15 - 30 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	8.70514	2.47674	-0.09377	-4.80271	1.49168	0.00134	29.74017	0.18466	-0.01375	0.48351
PGV	19.62600	1.70045	-0.16005	-5.45876	1.31207	0.00205	41.85159	0.17766	-0.00640	0.48042
PGA	9.00871	1.63785	-0.08605	-3.90888	0.50553	0.00049	13.92121	0.38954	-0.02808	0.79527
0.01000	9.03322	1.64628	-0.08410	-3.90423	0.48059	0.00047	13.99764	0.39308	-0.00596	0.73933
0.01024	9.04932	1.64683	-0.08378	-3.90667	0.47963	0.00047	14.01678	0.39317	-0.00599	0.73993
0.01048	9.06843	1.64741	-0.08344	-3.90962	0.47867	0.00048	14.04088	0.39325	-0.00603	0.74053
0.01072	9.09072	1.64804	-0.08308	-3.91309	0.47770	0.00048	14.07016	0.39329	-0.00608	0.74115
0.01097	9.11652	1.64872	-0.08269	-3.91714	0.47671	0.00048	14.10514	0.39331	-0.00614	0.74179
0.01123	9.14633	1.64946	-0.08227	-3.92185	0.47569	0.00049	14.14658	0.39331	-0.00620	0.74245
0.01150	9.18032	1.65028	-0.08182	-3.92726	0.47461	0.00049	14.19474	0.39328	-0.00628	0.74315
0.01177	9.21864	1.65118	-0.08134	-3.93337	0.47349	0.00049	14.24980	0.39323	-0.00636	0.74390
0.01205	9.26153	1.65217	-0.08080	-3.94023	0.47231	0.00050	14.31209	0.39316	-0.00646	0.74469
0.01233	9.30920	1.65328	-0.08022	-3.94786	0.47105	0.00051	14.38177	0.39307	-0.00657	0.74555
0.01262	9.36212	1.65450	-0.07958	-3.95634	0.46968	0.00051	14.45961	0.39297	-0.00669	0.74650
0.01292	9.42163	1.65586	-0.07888	-3.96587	0.46816	0.00052	14.54795	0.39285	-0.00682	0.74754
0.01322	9.48850	1.65738	-0.07810	-3.97658	0.46649	0.00053	14.64820	0.39269	-0.00698	0.74871
0.01353	9.56315	1.65907	-0.07724	-3.98852	0.46467	0.00053	14.76119	0.39252	-0.00715	0.75002
0.01385	9.64576	1.66096	-0.07629	-4.00171	0.46271	0.00054	14.88715	0.39233	-0.00733	0.75148
0.01417	9.73450	1.66308	-0.07524	-4.01582	0.46056	0.00055	15.02243	0.39216	-0.00753	0.75311
0.01451	9.82881	1.66545	-0.07409	-4.03072	0.45808	0.00056	15.16573	0.39204	-0.00776	0.75495
0.01485	9.92948	1.66809	-0.07282	-4.04650	0.45513	0.00057	15.31829	0.39196	-0.00801	0.75708
0.01520	10.03254	1.67102	-0.07143	-4.06244	0.45165	0.00058	15.47218	0.39201	-0.00829	0.75948
0.01556	10.13437	1.67433	-0.06989	-4.07794	0.44777	0.00058	15.62015	0.39225	-0.00858	0.76212
0.01592	10.23512	1.67810	-0.06817	-4.09306	0.44365	0.00059	15.76256	0.39268	-0.00888	0.76505
0.01630	10.33330	1.68228	-0.06622	-4.10746	0.43926	0.00059	15.89757	0.39331	-0.00923	0.76844
0.01668	10.42419	1.68686	-0.06403	-4.12029	0.43449	0.00058	16.01672	0.39419	-0.00960	0.77219
0.01707	10.50115	1.69201	-0.06165	-4.13052	0.42900	0.00057	16.10472	0.39548	-0.00995	0.77600
0.01748	10.55761	1.69772	-0.05914	-4.13696	0.42177	0.00056	16.14624	0.39730	-0.01026	0.77973
0.01789	10.59564	1.70360	-0.05655	-4.13960	0.41223	0.00054	16.14898	0.39959	-0.01058	0.78358
0.01831	10.63387	1.70961	-0.05390	-4.14172	0.40133	0.00053	16.15106	0.40204	-0.01093	0.78779
0.01874	10.68232	1.71635	-0.05124	-4.14559	0.38997	0.00051	16.16657	0.40457	-0.01131	0.79230
0.01918	10.69206	1.72402	-0.04844	-4.14318	0.37784	0.00049	16.09877	0.40787	-0.01161	0.79657
0.01963	10.58584	1.73206	-0.04536	-4.12127	0.36440	0.00045	15.80439	0.41288	-0.01176	0.80002
0.02009	10.36602	1.73972	-0.04202	-4.07995	0.35039	0.00039	15.30326	0.41944	-0.01176	0.80255
0.02057	10.10033	1.74676	-0.03856	-4.03050	0.33696	0.00031	14.73854	0.42653	-0.01165	0.80428
0.02105	9.84476	1.75392	-0.03503	-3.98290	0.32446	0.00024	14.21145	0.43346	-0.01149	0.80565
0.02154	9.63748	1.76215	-0.03161	-3.94451	0.31232	0.00018	13.77538	0.43989	-0.01135	0.80709
0.02205	9.48131	1.77147	-0.02844	-3.91605	0.29987	0.00013	13.42550	0.44578	-0.01118	0.80827
0.02257	9.31274	1.78027	-0.02544	-3.88560	0.28633	0.00009	13.05649	0.45185	-0.01097	0.80914
0.02310	9.04740	1.78696	-0.02243	-3.83774	0.27152	0.00003	12.53528	0.45922	-0.01074	0.80969
0.02364	8.65414	1.79173	-0.01926	-3.76767	0.25537	-0.00004	11.81209	0.46857	-0.01052	0.80996
0.02420	8.18402	1.79527	-0.01602	-3.68465	0.23816	-0.00012	10.97880	0.47941	-0.01037	0.81044
0.02477	7.74384	1.79865	-0.01290	-3.60718	0.22210	-0.00019	10.21993	0.48999	-0.01022	0.81078
0.02535	7.43138	1.80293	-0.01022	-3.55237	0.21028	-0.00024	9.68558	0.49832	-0.00995	0.81023
0.02595	7.26771	1.80841	-0.00807	-3.52414	0.20439	-0.00028	9.39380	0.50367	-0.00958	0.80904
0.02656	7.18403	1.81505	-0.00618	-3.51089	0.20343	-0.00031	9.23010	0.50724	-0.00921	0.80784
0.02719	7.07870	1.82200	-0.00426	-3.49461	0.20256	-0.00035	9.03397	0.51124	-0.00876	0.80635
0.02783	6.87610	1.82780	-0.00220	-3.46101	0.19603	-0.00039	8.69113	0.51745	-0.00815	0.80393
0.02848	6.39751	1.83244	0.00124	-3.37868	0.17709	-0.00047	7.96820	0.53007	-0.00744	0.80068
0.02915	6.14396	1.83485	0.00285	-3.33483	0.16644	-0.00050	7.57258	0.53762	-0.00678	0.79753
0.02984	5.70719	1.83817	0.00593	-3.25983	0.15348	-0.00057	6.96583	0.54939	-0.00614	0.79434
0.03054	5.30693	1.84259	0.00914	-3.19185	0.14684	-0.00066	6.44840	0.56021	-0.00550	0.79104
0.03126	4.99095	1.84831	0.01204	-3.13918	0.14509	-0.00074	6.06152	0.56905	-0.00480	0.78732
0.03199	4.76728	1.85397	0.01419	-3.10266	0.14454	-0.00080	5.78833	0.57584	-0.00404	0.78307
0.03275	4.60354	1.85803	0.01537	-3.07601	0.14133	-0.00083	5.57036	0.58154	-0.00331	0.77924
0.03352	4.45548	1.85997	0.01569	-3.05122	0.13268	-0.00083	5.35076	0.58745	-0.00274	0.77683
0.03430	4.29245	1.85885	0.01546	-3.02200	0.11781	-0.00081	5.10407	0.59418	-0.00216	0.77484
0.03511	4.10823	1.85398	0.01489	-2.98648	0.09880	-0.00079	4.83833	0.60144	-0.00134	0.77151
0.03594	3.92248	1.84682	0.01407	-2.94912	0.08036	-0.00076	4.58509	0.60835	-0.00028	0.76656
0.03678	3.76860	1.83997	0.01300	-2.91765	0.06738	-0.00075	4.38271	0.61382	0.00071	0.76157
0.03765	3.66915	1.83487	0.01171	-2.89674	0.06175	-0.00074	4.25359	0.61715	0.00141	0.75784
0.03854	3.61609	1.83165	0.01037	-2.88465	0.06223	-0.00075	4.18810	0.61858	0.00192	0.75501
0.03944	3.57745	1.82920	0.00926	-2.87478	0.06618	-0.00078	4.15148	0.61917	0.00236	0.75269
0.04037	3.51773	1.82600	0.00853	-2.86004	0.07131	-0.00081	4.10361	0.62010	0.00269	0.75138
0.04132	3.41999	1.82126	0.00812	-2.83746	0.07591	-0.00085	4.01954	0.62210	0.00286	0.75145
0.04229	3.28113	1.81433	0.00782	-2.80664	0.07756	-0.00088	3.88719	0.62563	0.00284	0.75288
0.04329	3.09758	1.80506	0.00762	-2.76695	0.07428	-0.00090	3.70211	0.63103	0.00272	0.75500
0.04431	2.88903	1.79528	0.00746	-2.72292	0.06701	-0.00091	3.49064	0.63777	0.00276	0.75607
0.04535	2.69623	1.78782	0.00710	-2.68353	0.05814	-0.00091	3.29706	0.64454	0.00318	0.75457

0.04642	2.53667	1.78398	0.00640	-2.65283	0.04837	-0.00091	3.13720	0.65072	0.00403	0.75011
0.04751	2.40919	1.78260	0.00533	-2.62978	0.03854	-0.00091	3.00884	0.65606	0.00508	0.74412
0.04863	2.30970	1.78115	0.00397	-2.61159	0.03136	-0.00091	2.91057	0.66010	0.00584	0.73984
0.04977	2.24105	1.77801	0.00229	-2.59730	0.02946	-0.00092	2.84615	0.66227	0.00599	0.73946
0.05094	2.21326	1.77377	0.00009	-2.58916	0.03313	-0.00092	2.82076	0.66234	0.00573	0.74161
0.05214	2.22367	1.77005	-0.00265	-2.58823	0.04008	-0.00093	2.82688	0.66089	0.00555	0.74281
0.05337	2.25277	1.76732	-0.00559	-2.59176	0.04772	-0.00093	2.84567	0.65892	0.00578	0.74103
0.05462	2.28278	1.76490	-0.00839	-2.59624	0.05482	-0.00092	2.86266	0.65703	0.00643	0.73646
0.05591	2.29910	1.76180	-0.01096	-2.59825	0.06133	-0.00091	2.86745	0.65555	0.00735	0.73048
0.05722	2.28830	1.75764	-0.01332	-2.59486	0.06689	-0.00091	2.85087	0.65485	0.00828	0.72510
0.05857	2.23887	1.75258	-0.01549	-2.58393	0.06981	-0.00092	2.80397	0.65547	0.00909	0.72109
0.05995	2.14649	1.74646	-0.01755	-2.56446	0.06866	-0.00092	2.72315	0.65771	0.00995	0.71715
0.06136	2.02147	1.73857	-0.01965	-2.53763	0.06379	-0.00093	2.61788	0.66115	0.01103	0.71195
0.06280	1.87948	1.72850	-0.02189	-2.50574	0.05731	-0.00094	2.50357	0.66504	0.01224	0.70584
0.06428	1.73702	1.71708	-0.02431	-2.47220	0.05264	-0.00096	2.39647	0.66859	0.01338	0.70025
0.06579	1.62877	1.70626	-0.02710	-2.44473	0.05327	-0.00098	2.32416	0.67032	0.01421	0.69647
0.06734	1.58520	1.69775	-0.03039	-2.43026	0.06033	-0.00101	2.30713	0.66908	0.01459	0.69544
0.06893	1.60877	1.69122	-0.03428	-2.42923	0.07207	-0.00103	2.34334	0.66499	0.01444	0.69753
0.07055	1.67080	1.68531	-0.03860	-2.43569	0.08501	-0.00103	2.40838	0.65942	0.01396	0.70149
0.07221	1.73096	1.67910	-0.04302	-2.44204	0.09636	-0.00103	2.46960	0.65414	0.01348	0.70526
0.07391	1.75944	1.67269	-0.04709	-2.44318	0.10497	-0.00102	2.50277	0.65039	0.01312	0.70826
0.07565	1.75144	1.66638	-0.05059	-2.43856	0.11122	-0.00102	2.50362	0.64831	0.01284	0.71060
0.07743	1.70755	1.66089	-0.05335	-2.42881	0.11646	-0.00102	2.47433	0.64779	0.01276	0.71156
0.07925	1.63959	1.65734	-0.05533	-2.41669	0.12253	-0.00103	2.42814	0.64827	0.01293	0.71079
0.08111	1.55961	1.65645	-0.05676	-2.40460	0.13084	-0.00106	2.37795	0.64918	0.01331	0.70864
0.08302	1.48009	1.65792	-0.05800	-2.39433	0.14191	-0.00111	2.33425	0.64994	0.01382	0.70549
0.08498	1.40297	1.66014	-0.05940	-2.38467	0.15466	-0.00116	2.29745	0.65041	0.01430	0.70226
0.08697	1.33056	1.66070	-0.06132	-2.37393	0.16698	-0.00122	2.26682	0.65042	0.01453	0.70037
0.08902	1.26090	1.65819	-0.06388	-2.36069	0.17731	-0.00128	2.23743	0.65014	0.01441	0.70078
0.09112	1.20088	1.65251	-0.06709	-2.34639	0.18506	-0.00132	2.21176	0.64940	0.01393	0.70377
0.09326	1.14351	1.64425	-0.07070	-2.33048	0.18929	-0.00134	2.18307	0.64866	0.01321	0.70878
0.09545	1.07740	1.63376	-0.07444	-2.31128	0.18865	-0.00135	2.14305	0.64847	0.01236	0.71500
0.09770	0.99408	1.62133	-0.07805	-2.28747	0.18253	-0.00134	2.08646	0.64921	0.01147	0.72175
0.10000	0.89638	1.60784	-0.08145	-2.26032	0.17217	-0.00133	2.01750	0.65074	0.01068	0.72816
0.10235	0.78871	1.59468	-0.08460	-2.23192	0.16035	-0.00131	1.94185	0.65281	0.01016	0.73303
0.10476	0.68466	1.58317	-0.08767	-2.20591	0.14960	-0.00129	1.87090	0.65480	0.00997	0.73580
0.10723	0.60316	1.57375	-0.09096	-2.18621	0.14174	-0.00127	1.81819	0.65575	0.01007	0.73669
0.10975	0.55022	1.56636	-0.09457	-2.17387	0.13754	-0.00125	1.78779	0.65524	0.01036	0.73619
0.11233	0.51797	1.56099	-0.09837	-2.16737	0.13702	-0.00122	1.77452	0.65359	0.01077	0.73469
0.11498	0.49132	1.55740	-0.10216	-2.16363	0.13959	-0.00121	1.76839	0.65149	0.01118	0.73287
0.11768	0.44904	1.55498	-0.10578	-2.15805	0.14359	-0.00121	1.75398	0.65007	0.01150	0.73111
0.12045	0.38640	1.55308	-0.10927	-2.14921	0.14804	-0.00121	1.72701	0.64960	0.01169	0.72966
0.12328	0.31126	1.55131	-0.11279	-2.13814	0.15242	-0.00123	1.69219	0.64974	0.01167	0.72931
0.12619	0.24101	1.54959	-0.11652	-2.12803	0.15730	-0.00124	1.66122	0.64961	0.01135	0.73063
0.12916	0.17946	1.54805	-0.12040	-2.11974	0.16279	-0.00125	1.63693	0.64897	0.01083	0.73329
0.13219	0.12010	1.54708	-0.12429	-2.11242	0.16840	-0.00126	1.61533	0.64819	0.01030	0.73589
0.13531	0.05800	1.54692	-0.12810	-2.10521	0.17315	-0.00128	1.59359	0.64757	0.00998	0.73713
0.13849	-0.01161	1.54702	-0.13198	-2.09658	0.17603	-0.00130	1.56858	0.64737	0.00988	0.73703
0.14175	-0.08768	1.54646	-0.13610	-2.08566	0.17644	-0.00131	1.54109	0.64745	0.00986	0.73658
0.14508	-0.17089	1.54450	-0.14052	-2.07151	0.17444	-0.00132	1.51088	0.64775	0.00972	0.73711
0.14850	-0.25780	1.54105	-0.14519	-2.05469	0.17102	-0.00134	1.48067	0.64802	0.00934	0.73941
0.15199	-0.33921	1.53653	-0.15006	-2.03747	0.16728	-0.00135	1.45642	0.64773	0.00868	0.74369
0.15557	-0.40340	1.53181	-0.15509	-2.02305	0.16445	-0.00135	1.44531	0.64629	0.00782	0.74947
0.15923	-0.44178	1.52778	-0.16029	-2.01415	0.16403	-0.00136	1.45300	0.64323	0.00695	0.75549
0.16298	-0.45927	1.52469	-0.16554	-2.01017	0.16638	-0.00136	1.47679	0.63881	0.00626	0.76054
0.16681	-0.47284	1.52206	-0.17069	-2.00746	0.17059	-0.00136	1.50563	0.63397	0.00582	0.76397
0.17074	-0.49722	1.51928	-0.17568	-2.00261	0.17538	-0.00137	1.52919	0.62951	0.00565	0.76571
0.17475	-0.53386	1.51600	-0.18056	-1.99499	0.18031	-0.00138	1.54581	0.62553	0.00566	0.76632
0.17887	-0.57232	1.51238	-0.18543	-1.98664	0.18613	-0.00139	1.56284	0.62145	0.00571	0.76683
0.18307	-0.59894	1.50888	-0.19031	-1.98057	0.19415	-0.00140	1.59034	0.61653	0.00566	0.76826
0.18738	-0.60750	1.50608	-0.19518	-1.97847	0.20524	-0.00141	1.63324	0.61056	0.00543	0.77105
0.19179	-0.59613	1.50442	-0.19996	-1.98107	0.21964	-0.00143	1.69331	0.60361	0.00498	0.77545
0.19631	-0.56992	1.50405	-0.20450	-1.98752	0.23702	-0.00145	1.76717	0.59610	0.00431	0.78144
0.20092	-0.53492	1.50492	-0.20871	-1.99663	0.25687	-0.00147	1.85026	0.58848	0.00346	0.78871
0.20565	-0.49607	1.50687	-0.21249	-2.00731	0.27855	-0.00149	1.93891	0.58102	0.00248	0.79682
0.21049	-0.45353	1.50972	-0.21588	-2.01940	0.30172	-0.00152	2.03342	0.57369	0.00147	0.80510
0.21544	-0.40873	1.51327	-0.21894	-2.03248	0.32558	-0.00155	2.13231	0.56658	0.00054	0.81290
0.22051	-0.36365	1.51737	-0.22177	-2.04602	0.34913	-0.00158	2.23335	0.55981	-0.00025	0.81986
0.22570	-0.32042	1.52174	-0.22449	-2.05929	0.37126	-0.00161	2.33407	0.55348	-0.00094	0.82619
0.23101	-0.28183	1.52601	-0.22720	-2.07137	0.39113	-0.00163	2.43119	0.54771	-0.00157	0.83225
0.23645	-0.25393	1.52977	-0.22991	-2.08079	0.40846	-0.00165	2.51848	0.54264	-0.00222	0.83854
0.24201	-0.24052	1.53275	-0.23262	-2.08655	0.42294	-0.00167	2.59187	0.53837	-0.00298	0.84548
0.24771	-0.24770	1.53486	-0.23529	-2.08741	0.43434	-0.00169	2.64505	0.53509	-0.00381	0.85289
0.25354	-0.27987	1.53621	-0.23792	-2.08272	0.44288	-0.00171	2.67269	0.53295	-0.00462	0.85992
0.25950	-0.34291	1.53692	-0.24048	-2.07163	0.44799	-0.00174	2.66708	0.53226	-0.00526	0.86559
0.26561	-0.43843	1.53726	-0.24298	-2.05425	0.44935	-0.00177	2.62506	0.53319	-0.00557	0.86885
0.27186	-0.56426	1.53759	-0.24540	-2.03148	0.44676	-0.00179	2.54816	0.53577	-0.00541	0.86894
0.27826	-0.71153	1.53828	-0.24772	-2.00555	0.44109	-0.00182	2.44603	0.53968	-0.00478	0.86569
0.28480	-0.87391	1.53949	-0.24994	-1.97791	0.43263	-0.00183	2.32574	0.54473	-0.00375	0.85971
0.29150	-1.04317	1.54134	-0.25204	-1.95014	0.42192	-0.00184	2.19754	0.55055	-0.00249	0.85217
0.29836	-1.20903	1.54393	-0.25405	-1.92435	0.41026	-0.00184	2.07265	0.55658	-0.00124	0.84461

0.30539	-1.36611	1.54738	-0.25603	-1.90155	0.39810	-0.00183	1.95729	0.56248	-0.00015	0.83815
0.31257	-1.50582	1.55183	-0.25808	-1.88352	0.38692	-0.00182	1.85985	0.56763	0.00070	0.83319
0.31993	-1.62895	1.55716	-0.26031	-1.86999	0.37669	-0.00181	1.77931	0.57192	0.00137	0.82935
0.32745	-1.73994	1.56303	-0.26282	-1.85966	0.36691	-0.00179	1.71169	0.57546	0.00193	0.82600
0.33517	-1.84776	1.56903	-0.26573	-1.85031	0.35699	-0.00177	1.64929	0.57866	0.00239	0.82313
0.34304	-1.95976	1.57479	-0.26898	-1.84022	0.34696	-0.00176	1.58633	0.58186	0.00273	0.82102
0.35112	-2.08334	1.58000	-0.27254	-1.82772	0.33664	-0.00175	1.51773	0.58536	0.00297	0.81969
0.35938	-2.21719	1.58431	-0.27639	-1.81275	0.32623	-0.00175	1.44511	0.58904	0.00308	0.81932
0.36784	-2.35392	1.58785	-0.28052	-1.79693	0.31730	-0.00176	1.37549	0.59229	0.00308	0.81981
0.37649	-2.48585	1.59072	-0.28501	-1.78182	0.31127	-0.00178	1.31476	0.59450	0.00301	0.82092
0.38536	-2.60598	1.59283	-0.28994	-1.76875	0.30857	-0.00180	1.26744	0.59516	0.00283	0.82284
0.39442	-2.71346	1.59437	-0.29520	-1.75804	0.30934	-0.00182	1.23424	0.59407	0.00255	0.82560
0.40370	-2.80682	1.59567	-0.30077	-1.75033	0.31377	-0.00185	1.21651	0.59105	0.00218	0.82899
0.41321	-2.88866	1.59681	-0.30665	-1.74521	0.32087	-0.00188	1.21171	0.58639	0.00180	0.83256
0.42292	-2.96727	1.59777	-0.31275	-1.74086	0.32835	-0.00192	1.21380	0.58078	0.00144	0.83618
0.43288	-3.04913	1.59882	-0.31892	-1.73622	0.33472	-0.00194	1.21877	0.57470	0.00111	0.83981
0.44307	-3.13394	1.60023	-0.32512	-1.73155	0.33988	-0.00197	1.22644	0.56830	0.00085	0.84312
0.45349	-3.21710	1.60198	-0.33150	-1.72786	0.34521	-0.00199	1.23950	0.56129	0.00075	0.84555
0.46417	-3.30253	1.60413	-0.33796	-1.72446	0.35052	-0.00201	1.25534	0.55394	0.00088	0.84673
0.47508	-3.39596	1.60659	-0.34439	-1.72006	0.35545	-0.00203	1.27010	0.54656	0.00121	0.84662
0.48626	-3.50307	1.60901	-0.35067	-1.71310	0.35891	-0.00205	1.27924	0.53954	0.00169	0.84554
0.49771	-3.62275	1.61111	-0.35684	-1.70351	0.36163	-0.00208	1.28321	0.53277	0.00231	0.84343
0.50942	-3.75405	1.61301	-0.36284	-1.69154	0.36378	-0.00210	1.28275	0.52615	0.00310	0.84003
0.52140	-3.89471	1.61499	-0.36871	-1.67787	0.36532	-0.00212	1.27942	0.51958	0.00414	0.83493
0.53367	-4.04107	1.61713	-0.37446	-1.66327	0.36673	-0.00215	1.27576	0.51287	0.00539	0.82818
0.54624	-4.19036	1.61909	-0.38014	-1.64790	0.36776	-0.00217	1.27313	0.50591	0.00676	0.82038
0.55910	-4.34253	1.62088	-0.38566	-1.63167	0.36793	-0.00220	1.27152	0.49870	0.00816	0.81200
0.57225	-4.49693	1.62283	-0.39092	-1.61500	0.36779	-0.00222	1.27194	0.49120	0.00958	0.80313
0.58569	-4.65217	1.62511	-0.39590	-1.59832	0.36757	-0.00224	1.27547	0.48336	0.01098	0.79394
0.59948	-4.80618	1.62756	-0.40065	-1.58195	0.36781	-0.00227	1.28388	0.47501	0.01237	0.78461
0.61357	-4.95640	1.62999	-0.40518	-1.56617	0.36849	-0.00229	1.29829	0.46610	0.01372	0.77537
0.62802	-5.10312	1.63252	-0.40951	-1.55111	0.36990	-0.00232	1.31965	0.45656	0.01508	0.76614
0.64280	-5.24626	1.63551	-0.41359	-1.53709	0.37241	-0.00234	1.34840	0.44647	0.01644	0.75689
0.65794	-5.38640	1.63913	-0.41738	-1.52422	0.37625	-0.00237	1.38442	0.43591	0.01775	0.74803
0.67340	-5.52293	1.64321	-0.42085	-1.51243	0.38135	-0.00240	1.42688	0.42506	0.01894	0.74015
0.68927	-5.65718	1.64753	-0.42401	-1.50136	0.38747	-0.00243	1.47439	0.41403	0.01998	0.73353
0.70547	-5.78899	1.65203	-0.42685	-1.49091	0.39428	-0.00246	1.52572	0.40300	0.02086	0.72816
0.72207	-5.92080	1.65692	-0.42936	-1.48084	0.40148	-0.00249	1.57993	0.39203	0.02159	0.72379
0.73910	-6.05332	1.66244	-0.43153	-1.47120	0.40904	-0.00252	1.63675	0.38118	0.02217	0.72014
0.75649	-6.18622	1.66860	-0.43337	-1.46203	0.41684	-0.00255	1.69554	0.37057	0.02264	0.71681
0.77429	-6.31936	1.67522	-0.43494	-1.45322	0.42472	-0.00258	1.75577	0.36021	0.02302	0.71336
0.79246	-6.45078	1.68200	-0.43629	-1.44485	0.43269	-0.00261	1.81793	0.35010	0.02335	0.70946
0.81116	-6.58125	1.68892	-0.43747	-1.43688	0.44081	-0.00264	1.88330	0.34009	0.02363	0.70511
0.83022	-6.71002	1.69602	-0.43845	-1.42937	0.44898	-0.00267	1.95138	0.33029	0.02387	0.70055
0.84976	-6.83924	1.70359	-0.43923	-1.42220	0.45717	-0.00269	2.02204	0.32066	0.02406	0.69597
0.86972	-6.96928	1.71170	-0.43979	-1.41532	0.46527	-0.00272	2.09422	0.31130	0.02421	0.69169
0.89023	-7.10080	1.72037	-0.44015	-1.40867	0.47337	-0.00275	2.16819	0.30216	0.02430	0.68811
0.91116	-7.23194	1.72931	-0.44036	-1.40231	0.48139	-0.00277	2.24319	0.29331	0.02436	0.68562
0.93257	-7.36206	1.73834	-0.44043	-1.39625	0.48940	-0.00279	2.31973	0.28473	0.02439	0.68425
0.95456	-7.49144	1.74742	-0.44037	-1.39044	0.49742	-0.00282	2.39781	0.27639	0.02441	0.68395
0.97704	-7.62013	1.75657	-0.44017	-1.38486	0.50539	-0.00284	2.47644	0.26835	0.02440	0.68464
1.00000	-7.74945	1.76599	-0.43981	-1.37940	0.51322	-0.00287	2.55415	0.26066	0.02436	0.68623
1.02354	-7.88105	1.77590	-0.43925	-1.37397	0.52085	-0.00289	2.62989	0.25336	0.02429	0.68861
1.04767	-8.01531	1.78637	-0.43850	-1.36853	0.52823	-0.00291	2.70282	0.24646	0.02418	0.69166
1.07227	-8.15109	1.79726	-0.43757	-1.36314	0.53536	-0.00293	2.77241	0.24000	0.02405	0.69523
1.09745	-8.28785	1.80846	-0.43649	-1.35786	0.54235	-0.00295	2.83934	0.23393	0.02390	0.69923
1.12334	-8.42513	1.81981	-0.43528	-1.35269	0.54927	-0.00297	2.90425	0.22819	0.02374	0.70359
1.14982	-8.56157	1.83110	-0.43397	-1.34769	0.55613	-0.00299	2.96699	0.22279	0.02358	0.70820
1.17675	-8.69634	1.84227	-0.43257	-1.34288	0.56291	-0.00301	3.02720	0.21775	0.02341	0.71294
1.20453	-8.83183	1.85355	-0.43104	-1.33819	0.56970	-0.00303	3.08551	0.21299	0.02324	0.71776
1.23289	-8.96736	1.86499	-0.42938	-1.33365	0.57640	-0.00305	3.14078	0.20857	0.02305	0.72248
1.26183	-9.10358	1.87671	-0.42759	-1.32923	0.58298	-0.00307	3.19257	0.20449	0.02284	0.72707
1.29149	-9.24145	1.88885	-0.42565	-1.32493	0.58948	-0.00309	3.24107	0.20072	0.02260	0.73163
1.32188	-9.38070	1.90140	-0.42357	-1.32078	0.59593	-0.00310	3.28668	0.19724	0.02233	0.73625
1.35300	-9.52082	1.91429	-0.42135	-1.31681	0.60236	-0.00312	3.32965	0.19403	0.02203	0.74100
1.38485	-9.66107	1.92737	-0.41902	-1.31304	0.60880	-0.00313	3.37035	0.19109	0.02171	0.74597
1.41743	-9.80057	1.94049	-0.41660	-1.30952	0.61529	-0.00315	3.40941	0.18837	0.02139	0.75127
1.45075	-9.93877	1.95354	-0.41409	-1.30625	0.62184	-0.00316	3.44692	0.18588	0.02107	0.75693
1.48500	-10.07627	1.96652	-0.41148	-1.30319	0.62848	-0.00318	3.48305	0.18359	0.02076	0.76298
1.51999	-10.21222	1.97936	-0.40880	-1.30035	0.63517	-0.00319	3.51748	0.18151	0.02045	0.76935
1.55569	-10.34699	1.99210	-0.40602	-1.29771	0.64185	-0.00321	3.54973	0.17965	0.02014	0.77606
1.59236	-10.48193	2.00493	-0.40313	-1.29522	0.64855	-0.00322	3.57968	0.17801	0.01982	0.78312
1.62973	-10.61659	2.01784	-0.40014	-1.29288	0.65520	-0.00323	3.60686	0.17658	0.01948	0.79050
1.66806	-10.75222	2.03099	-0.39702	-1.29066	0.66182	-0.00325	3.63137	0.17536	0.01912	0.79824
1.70736	-10.88900	2.04444	-0.39377	-1.28855	0.66840	-0.00326	3.65323	0.17434	0.01873	0.80634
1.74764	-11.02700	2.05816	-0.39039	-1.28652	0.67492	-0.00327	3.67229	0.17350	0.01831	0.81481
1.78859	-11.16502	2.07202	-0.38692	-1.28458	0.68132	-0.00328	3.68823	0.17284	0.01786	0.82358
1.83083	-11.30475	2.08615	-0.38333	-1.28269	0.68771	-0.00329	3.70162	0.17234	0.01738	0.83276
1.87371	-11.44360	2.10025	-0.37969	-1.28089	0.69398	-0.00330	3.71252	0.17199	0.01690	0.84218
1.91791	-11.58336	2.11445	-0.37595	-1.27915	0.70025	-0.00331	3.72114	0.17177	0.01640	0.85190
1.96309	-11.72258	2.12854	-0.37215	-1.27745	0.70644	-0.00332	3.72741	0.17168	0.01590	0.86170

2.00924	-11.86087	2.14247	-0.36831	-1.27580	0.71257	-0.00333	3.73156	0.17170	0.01542	0.87146
2.05634	-11.99799	2.15619	-0.36443	-1.27422	0.71864	-0.00334	3.73392	0.17181	0.01495	0.88099
2.10482	-12.13502	2.16980	-0.36047	-1.27269	0.72470	-0.00335	3.73473	0.17201	0.01449	0.89023
2.15424	-12.27070	2.18320	-0.35648	-1.27125	0.73070	-0.00335	3.73413	0.17228	0.01406	0.89889
2.20507	-12.40634	2.19654	-0.35241	-1.26988	0.73671	-0.00336	3.73223	0.17264	0.01365	0.90695
2.25683	-12.54080	2.20974	-0.34830	-1.26861	0.74265	-0.00337	3.72926	0.17307	0.01325	0.91439
2.31000	-12.67551	2.22295	-0.34410	-1.26742	0.74858	-0.00338	3.72526	0.17356	0.01286	0.92137
2.36463	-12.81064	2.23623	-0.33981	-1.26631	0.75449	-0.00338	3.72021	0.17412	0.01247	0.92801
2.42014	-12.94492	2.24949	-0.33547	-1.26530	0.76031	-0.00339	3.71428	0.17474	0.01209	0.93438
2.47709	-13.07968	2.26284	-0.33103	-1.26439	0.76611	-0.00339	3.70778	0.17540	0.01171	0.94068
2.53550	-13.21494	2.27632	-0.32650	-1.26357	0.77188	-0.00340	3.70061	0.17612	0.01131	0.94709
2.59471	-13.34921	2.28978	-0.32195	-1.26284	0.77754	-0.00340	3.69292	0.17687	0.01092	0.95367
2.65604	-13.48518	2.30346	-0.31725	-1.26221	0.78323	-0.00341	3.68505	0.17765	0.01051	0.96062
2.71887	-13.62129	2.31723	-0.31248	-1.26168	0.78889	-0.00341	3.67694	0.17846	0.01010	0.96790
2.78242	-13.75580	2.33089	-0.30771	-1.26125	0.79444	-0.00341	3.66894	0.17929	0.00970	0.97549
2.84819	-13.89135	2.34465	-0.30281	-1.26094	0.80003	-0.00341	3.66137	0.18012	0.00929	0.98362
2.91545	-14.02659	2.35846	-0.29789	-1.26071	0.80558	-0.00341	3.65368	0.18097	0.00889	0.99225
2.98329	-14.15902	2.37190	-0.29296	-1.26062	0.81102	-0.00342	3.64708	0.18179	0.00850	1.00116
3.05344	-14.29228	2.38548	-0.28799	-1.26060	0.81650	-0.00342	3.64036	0.18263	0.00812	1.01035
3.12598	-14.42592	2.39901	-0.28287	-1.26071	0.82199	-0.00342	3.63452	0.18346	0.00775	1.01963
3.19898	-14.55640	2.41220	-0.27787	-1.26090	0.82737	-0.00342	3.62893	0.18427	0.00740	1.02847
3.27439	-14.68717	2.42534	-0.27274	-1.26119	0.83275	-0.00341	3.62406	0.18508	0.00707	1.03685
3.35121	-14.81613	2.43824	-0.26767	-1.26156	0.83807	-0.00341	3.61948	0.18587	0.00675	1.04452
3.43053	-14.94534	2.45107	-0.26246	-1.26203	0.84338	-0.00341	3.61556	0.18666	0.00645	1.05180
3.51124	-15.07260	2.46368	-0.25736	-1.26254	0.84862	-0.00341	3.61172	0.18743	0.00616	1.05882
3.59324	-15.19781	2.47590	-0.25215	-1.26317	0.85376	-0.00341	3.60894	0.18818	0.00588	1.06593
3.67782	-15.32351	2.48828	-0.24705	-1.26381	0.85890	-0.00341	3.60544	0.18893	0.00561	1.07353
3.76506	-15.44817	2.50018	-0.24168	-1.26460	0.86397	-0.00340	3.60389	0.18966	0.00533	1.08207
3.85356	-15.57258	2.51241	-0.23660	-1.26535	0.86900	-0.00340	3.60061	0.19039	0.00508	1.09124
3.94477	-15.69464	2.52384	-0.23120	-1.26627	0.87390	-0.00339	3.60021	0.19107	0.00481	1.10113
4.03714	-15.81731	2.53577	-0.22603	-1.26716	0.87878	-0.00339	3.59787	0.19177	0.00457	1.11118
4.13223	-15.93777	2.54710	-0.22079	-1.26813	0.88354	-0.00339	3.59741	0.19241	0.00432	1.12137
4.23012	-16.05887	2.55842	-0.21531	-1.26922	0.88827	-0.00338	3.59753	0.19306	0.00407	1.13138
4.32900	-16.17948	2.57015	-0.21029	-1.27021	0.89293	-0.00337	3.59591	0.19368	0.00385	1.14057
4.43066	-16.29598	2.58056	-0.20477	-1.27141	0.89739	-0.00337	3.59816	0.19424	0.00362	1.14931
4.53515	-16.41678	2.59215	-0.19948	-1.27257	0.90192	-0.00336	3.59782	0.19485	0.00340	1.15736
4.64253	-16.53556	2.60334	-0.19434	-1.27373	0.90636	-0.00336	3.59847	0.19539	0.00319	1.16483
4.75059	-16.64905	2.61323	-0.18871	-1.27510	0.91054	-0.00335	3.60205	0.19590	0.00295	1.17180
4.86145	-16.76839	2.62489	-0.18361	-1.27632	0.91484	-0.00334	3.60209	0.19643	0.00275	1.17808
4.97760	-16.88527	2.63558	-0.17838	-1.27764	0.91904	-0.00333	3.60465	0.19689	0.00254	1.18412
5.09424	-16.99717	2.64506	-0.17262	-1.27916	0.92298	-0.00333	3.60943	0.19736	0.00230	1.18985
5.21376	-17.11632	2.65675	-0.16755	-1.28049	0.92708	-0.00332	3.61055	0.19783	0.00211	1.19499
5.33618	-17.22967	2.66713	-0.16256	-1.28186	0.93097	-0.00331	3.61389	0.19821	0.00191	1.19995
5.46150	-17.33744	2.67565	-0.15673	-1.28351	0.93462	-0.00330	3.62009	0.19863	0.00166	1.20508
5.58971	-17.45392	2.68673	-0.15150	-1.28500	0.93845	-0.00329	3.62305	0.19903	0.00145	1.20988
5.72082	-17.56905	2.69793	-0.14690	-1.28637	0.94220	-0.00328	3.62625	0.19933	0.00128	1.21460
5.85823	-17.67398	2.70557	-0.14108	-1.28812	0.94562	-0.00327	3.63344	0.19971	0.00102	1.22013
5.99520	-17.78289	2.71474	-0.13548	-1.28982	0.94905	-0.00326	3.63877	0.20010	0.00077	1.22556
6.13497	-17.89992	2.72664	-0.13094	-1.29126	0.95262	-0.00325	3.64250	0.20033	0.00061	1.23069
6.28141	-18.00646	2.73547	-0.12605	-1.29284	0.95592	-0.00324	3.64890	0.20057	0.00041	1.23639
6.42674	-18.10188	2.74142	-0.12020	-1.29468	0.95886	-0.00323	3.65577	0.20100	0.00012	1.24259
6.57895	-18.21127	2.75078	-0.11478	-1.29644	0.96207	-0.00322	3.66139	0.20133	-0.00011	1.24873
6.73401	-18.32835	2.76288	-0.11054	-1.29793	0.96535	-0.00320	3.66749	0.20139	-0.00024	1.25446
6.89180	-18.42530	2.76984	-0.10582	-1.29956	0.96819	-0.00319	3.67449	0.20162	-0.00045	1.26081
7.05716	-18.51533	2.77398	-0.09979	-1.30153	0.97088	-0.00318	3.68045	0.20215	-0.00078	1.26798
7.22022	-18.61460	2.78141	-0.09451	-1.30333	0.97364	-0.00317	3.68610	0.20249	-0.00102	1.27445
7.39098	-18.72933	2.79295	-0.09020	-1.30493	0.97660	-0.00316	3.69353	0.20252	-0.00116	1.28028
7.56430	-18.82851	2.80104	-0.08624	-1.30645	0.97921	-0.00315	3.70156	0.20254	-0.00131	1.28597
7.73994	-18.90001	2.80149	-0.08072	-1.30831	0.98143	-0.00314	3.70485	0.20320	-0.00165	1.29239
7.92393	-18.98428	2.80478	-0.07514	-1.31024	0.98380	-0.00313	3.70899	0.20375	-0.00196	1.29833
8.11030	-19.07995	2.81139	-0.07014	-1.31205	0.98627	-0.00312	3.71402	0.20408	-0.00220	1.30339
8.29876	-19.19033	2.82249	-0.06631	-1.31360	0.98881	-0.00310	3.72216	0.20402	-0.00231	1.30732
8.49618	-19.27142	2.82600	-0.06232	-1.31516	0.99096	-0.00310	3.72758	0.20428	-0.00252	1.31176
8.69565	-19.31937	2.82088	-0.05706	-1.31699	0.99267	-0.00309	3.72832	0.20508	-0.00291	1.31716
8.90472	-19.38554	2.82000	-0.05190	-1.31885	0.99457	-0.00309	3.73182	0.20562	-0.00326	1.32215
9.11577	-19.45728	2.82089	-0.04707	-1.32063	0.99648	-0.00308	3.73579	0.20604	-0.00355	1.32683
9.32836	-19.55446	2.82846	-0.04273	-1.32233	0.99871	-0.00307	3.73919	0.20634	-0.00375	1.33086
9.54198	-19.63931	2.83385	-0.03936	-1.32375	1.00067	-0.00306	3.74377	0.20650	-0.00389	1.33486
9.76563	-19.65991	2.82329	-0.03583	-1.32510	1.00164	-0.00306	3.75020	0.20676	-0.00423	1.34069
10.00000	-19.67512	2.81110	-0.03207	-1.32649	1.00239	-0.00306	3.76102	0.20678	-0.00460	1.34739

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
High stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 30 - 61 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	3.21224	2.38120	-0.12889	-3.63067	1.14895	0.00009	16.48803	0.23363	0.00255	0.37795
PGV	13.51228	1.73294	-0.18296	-4.33410	1.05377	0.00072	25.78869	0.22737	0.00983	0.36995
PGA	5.55568	1.66262	-0.06364	-3.29122	0.37142	-0.00040	8.51077	0.45653	-0.02430	0.75435
0.01000	5.51843	1.67415	-0.06046	-3.27931	0.34500	-0.00042	8.50306	0.46184	-0.00027	0.68669
0.01024	5.53257	1.67464	-0.06014	-3.28150	0.34438	-0.00042	8.51936	0.46185	-0.00031	0.68729
0.01048	5.54943	1.67515	-0.05981	-3.28415	0.34379	-0.00042	8.53962	0.46182	-0.00035	0.68789
0.01072	5.56908	1.67569	-0.05946	-3.28727	0.34323	-0.00042	8.56393	0.46174	-0.00041	0.68848
0.01097	5.59170	1.67627	-0.05908	-3.29088	0.34269	-0.00041	8.59256	0.46163	-0.00047	0.68909
0.01123	5.61766	1.67690	-0.05868	-3.29505	0.34217	-0.00041	8.62602	0.46147	-0.00054	0.68971
0.01150	5.64738	1.67758	-0.05824	-3.29984	0.34166	-0.00041	8.66495	0.46125	-0.00062	0.69034
0.01177	5.68131	1.67833	-0.05778	-3.30533	0.34116	-0.00040	8.71001	0.46099	-0.00071	0.69101
0.01205	5.71994	1.67915	-0.05727	-3.31160	0.34066	-0.00040	8.76195	0.46066	-0.00081	0.69172
0.01233	5.76352	1.68005	-0.05672	-3.31869	0.34016	-0.00039	8.82118	0.46028	-0.00092	0.69251
0.01262	5.81223	1.68106	-0.05612	-3.32661	0.33964	-0.00039	8.88793	0.45984	-0.00105	0.69338
0.01292	5.86652	1.68217	-0.05546	-3.33544	0.33909	-0.00038	8.96285	0.45935	-0.00120	0.69434
0.01322	5.92635	1.68340	-0.05473	-3.34516	0.33851	-0.00038	9.04582	0.45881	-0.00136	0.69540
0.01353	5.99174	1.68478	-0.05392	-3.35577	0.33788	-0.00037	9.13687	0.45823	-0.00154	0.69660
0.01385	6.06374	1.68633	-0.05301	-3.36744	0.33718	-0.00036	9.23759	0.45762	-0.00174	0.69798
0.01417	6.14356	1.68808	-0.05201	-3.38037	0.33636	-0.00035	9.34990	0.45695	-0.00197	0.69956
0.01451	6.23280	1.69006	-0.05090	-3.39481	0.33540	-0.00034	9.47654	0.45621	-0.00222	0.70137
0.01485	6.33130	1.69229	-0.04968	-3.41069	0.33430	-0.00033	9.61730	0.45541	-0.00251	0.70348
0.01520	6.43619	1.69476	-0.04832	-3.42748	0.33296	-0.00032	9.76756	0.45464	-0.00284	0.70592
0.01556	6.54594	1.69751	-0.04681	-3.44490	0.33136	-0.00032	9.92490	0.45394	-0.00321	0.70873
0.01592	6.66319	1.70066	-0.04512	-3.46346	0.32947	-0.00031	10.09324	0.45327	-0.00360	0.71182
0.01630	6.78761	1.70421	-0.04326	-3.48309	0.32704	-0.00030	10.27172	0.45266	-0.00401	0.71523
0.01668	6.90853	1.70797	-0.04120	-3.50175	0.32385	-0.00029	10.44399	0.45230	-0.00447	0.71906
0.01707	7.01399	1.71188	-0.03892	-3.51730	0.32017	-0.00029	10.59213	0.45235	-0.00498	0.72335
0.01748	7.10266	1.71614	-0.03641	-3.52963	0.31638	-0.00029	10.71381	0.45284	-0.00554	0.72805
0.01789	7.17735	1.72076	-0.03367	-3.53928	0.31217	-0.00030	10.81288	0.45373	-0.00611	0.73296
0.01831	7.24038	1.72577	-0.03073	-3.54666	0.30667	-0.00031	10.89136	0.45502	-0.00667	0.73788
0.01874	7.28997	1.73154	-0.02765	-3.55172	0.29950	-0.00033	10.94345	0.45684	-0.00719	0.74264
0.01918	7.31522	1.73837	-0.02438	-3.55294	0.29127	-0.00034	10.95071	0.45936	-0.00768	0.74727
0.01963	7.29680	1.74590	-0.02090	-3.54698	0.28229	-0.00037	10.88244	0.46284	-0.00816	0.75194
0.02009	7.21146	1.75355	-0.01714	-3.52969	0.27200	-0.00041	10.70216	0.46762	-0.00862	0.75649
0.02057	7.06285	1.76140	-0.01313	-3.50177	0.26064	-0.00046	10.42055	0.47365	-0.00897	0.76043
0.02105	6.87713	1.76977	-0.00898	-3.46800	0.24928	-0.00052	10.08440	0.48046	-0.00921	0.76364
0.02154	6.67830	1.77870	-0.00478	-3.43260	0.23856	-0.00058	9.73401	0.48762	-0.00942	0.76665
0.02205	6.48479	1.78789	-0.00066	-3.39869	0.22845	-0.00064	9.39698	0.49474	-0.00964	0.76964
0.02257	6.31005	1.79712	0.00324	-3.36856	0.21881	-0.00069	9.09124	0.50154	-0.00976	0.77198
0.02310	6.13356	1.80648	0.00711	-3.33886	0.20889	-0.00073	8.78407	0.50845	-0.00974	0.77331
0.02364	5.90363	1.81565	0.01133	-3.30051	0.19760	-0.00078	8.40331	0.51655	-0.00967	0.77424
0.02420	5.60340	1.82393	0.01587	-3.24999	0.18472	-0.00084	7.93363	0.52620	-0.00962	0.77520
0.02477	5.27300	1.83137	0.02039	-3.19401	0.17143	-0.00090	7.43920	0.53662	-0.00954	0.77591
0.02535	4.96703	1.83878	0.02456	-3.14247	0.15944	-0.00095	6.99464	0.54664	-0.00932	0.77557
0.02595	4.71812	1.84728	0.02832	-3.10169	0.14971	-0.00100	6.63957	0.55548	-0.00887	0.77366
0.02656	4.52683	1.85698	0.03179	-3.07179	0.14116	-0.00104	6.36917	0.56307	-0.00834	0.77123
0.02719	4.35450	1.86632	0.03497	-3.04526	0.13074	-0.00107	6.12394	0.57035	-0.00789	0.76935
0.02783	4.16017	1.87400	0.03791	-3.01426	0.11778	-0.00109	5.85107	0.57830	-0.00746	0.76770
0.02848	3.93980	1.88033	0.04083	-2.97784	0.10460	-0.00112	5.55838	0.58687	-0.00705	0.76621
0.02915	3.71482	1.88691	0.04382	-2.94048	0.09266	-0.00115	5.27766	0.59552	-0.00672	0.76509
0.02984	3.51135	1.89477	0.04668	-2.90798	0.08226	-0.00118	5.03033	0.60373	-0.00626	0.76305
0.03054	3.32719	1.90248	0.04934	-2.87934	0.07346	-0.00121	4.80812	0.61139	-0.00560	0.75977
0.03126	3.13966	1.90793	0.05199	-2.84883	0.06653	-0.00124	4.59231	0.61874	-0.00502	0.75713
0.03199	2.94234	1.91123	0.05468	-2.81505	0.06152	-0.00128	4.38061	0.62589	-0.00468	0.75620
0.03275	2.75835	1.91360	0.05691	-2.78308	0.05633	-0.00131	4.18592	0.63268	-0.00444	0.75594
0.03352	2.59236	1.91523	0.05832	-2.75430	0.04809	-0.00133	3.99868	0.63954	-0.00416	0.75547
0.03430	2.42168	1.91530	0.05926	-2.72411	0.03709	-0.00133	3.79893	0.64707	-0.00382	0.75470
0.03511	2.24432	1.91415	0.06007	-2.69201	0.02564	-0.00132	3.59605	0.65498	-0.00341	0.75336
0.03594	2.08079	1.91312	0.06069	-2.66230	0.01465	-0.00132	3.41352	0.66250	-0.00291	0.75128
0.03678	1.94918	1.91247	0.06089	-2.63840	0.00327	-0.00131	3.26353	0.66909	-0.00234	0.74874
0.03765	1.84254	1.91205	0.06066	-2.61919	-0.00895	-0.00130	3.13689	0.67495	-0.00171	0.74588
0.03854	1.74958	1.91239	0.06035	-2.60311	-0.01938	-0.00128	3.02837	0.68015	-0.00104	0.74273
0.03944	1.64579	1.91250	0.06040	-2.58491	-0.02484	-0.00129	2.92391	0.68501	-0.00045	0.73996
0.04037	1.51578	1.90951	0.06070	-2.55951	-0.02572	-0.00131	2.80815	0.69005	-0.00001	0.73808
0.04132	1.37116	1.90323	0.06087	-2.52867	-0.02569	-0.00134	2.68287	0.69550	0.00032	0.73706
0.04229	1.23503	1.89809	0.06087	-2.49999	-0.02788	-0.00135	2.56189	0.70137	0.00066	0.73624
0.04329	1.12782	1.89807	0.06077	-2.48036	-0.03162	-0.00136	2.46288	0.70703	0.00108	0.73502
0.04431	1.05593	1.90199	0.06051	-2.46997	-0.03495	-0.00136	2.39389	0.71161	0.00163	0.73292
0.04535	1.00430	1.90485	0.05977	-2.46236	-0.03825	-0.00135	2.34145	0.71516	0.00227	0.72985

0.04642	0.94910	1.90236	0.05841	-2.45022	-0.04212	-0.00135	2.28524	0.71828	0.00293	0.72629
0.04751	0.87725	1.89363	0.05660	-2.43068	-0.04619	-0.00135	2.21559	0.72141	0.00355	0.72268
0.04863	0.79187	1.88131	0.05451	-2.40632	-0.05124	-0.00134	2.13413	0.72494	0.00421	0.71881
0.04977	0.70329	1.86967	0.05237	-2.38213	-0.05823	-0.00133	2.04883	0.72906	0.00510	0.71327
0.05094	0.62215	1.86198	0.05046	-2.36227	-0.06527	-0.00132	1.97178	0.73334	0.00631	0.70553
0.05214	0.55186	1.85938	0.04899	-2.34804	-0.06870	-0.00132	1.91050	0.73721	0.00759	0.69729
0.05337	0.49692	1.86042	0.04788	-2.33928	-0.06684	-0.00132	1.86696	0.74012	0.00862	0.69077
0.05462	0.44373	1.86313	0.04715	-2.33244	-0.06194	-0.00134	1.82782	0.74275	0.00924	0.68709
0.05591	0.39407	1.86551	0.04641	-2.32646	-0.05716	-0.00135	1.78944	0.74523	0.00951	0.68587
0.05722	0.34448	1.86608	0.04528	-2.31932	-0.05554	-0.00135	1.74732	0.74792	0.00974	0.68504
0.05857	0.30149	1.86296	0.04327	-2.31032	-0.05875	-0.00134	1.70374	0.75059	0.01022	0.68269
0.05995	0.25471	1.85539	0.04050	-2.29670	-0.06555	-0.00132	1.65568	0.75336	0.01097	0.67870
0.06136	0.18956	1.84429	0.03736	-2.27652	-0.07209	-0.00131	1.60035	0.75641	0.01172	0.67467
0.06280	0.12572	1.83115	0.03368	-2.25473	-0.07547	-0.00131	1.54951	0.75879	0.01218	0.67269
0.06428	0.07417	1.81852	0.02965	-2.23566	-0.07685	-0.00131	1.50772	0.76041	0.01228	0.67322
0.06579	0.04279	1.80847	0.02560	-2.22260	-0.07779	-0.00130	1.47889	0.76113	0.01227	0.67451
0.06734	0.02164	1.80133	0.02191	-2.21422	-0.07803	-0.00129	1.45859	0.76128	0.01246	0.67466
0.06893	-0.00718	1.79482	0.01872	-2.20548	-0.07711	-0.00129	1.43659	0.76147	0.01288	0.67324
0.07055	-0.05576	1.78680	0.01596	-2.19213	-0.07550	-0.00129	1.40547	0.76229	0.01355	0.67010
0.07221	-0.12294	1.77750	0.01344	-2.17416	-0.07330	-0.00130	1.36587	0.76386	0.01448	0.66491
0.07391	-0.20635	1.76827	0.01093	-2.15278	-0.07144	-0.00132	1.31881	0.76648	0.01559	0.65818
0.07565	-0.28441	1.75950	0.00780	-2.13204	-0.07131	-0.00133	1.27397	0.76934	0.01669	0.65127
0.07743	-0.34667	1.75271	0.00412	-2.11528	-0.07241	-0.00134	1.23803	0.77177	0.01761	0.64537
0.07925	-0.38636	1.74971	0.00049	-2.10566	-0.07158	-0.00135	1.21793	0.77287	0.01828	0.64092
0.08111	-0.39749	1.75007	-0.00280	-2.10414	-0.06650	-0.00137	1.21782	0.77185	0.01868	0.63813
0.08302	-0.39351	1.75068	-0.00584	-2.10568	-0.05815	-0.00140	1.22873	0.76941	0.01876	0.63749
0.08498	-0.40244	1.74826	-0.00877	-2.10232	-0.05009	-0.00143	1.23298	0.76730	0.01854	0.63920
0.08697	-0.44186	1.74155	-0.01177	-2.08981	-0.04605	-0.00146	1.21795	0.76694	0.01816	0.64234
0.08902	-0.52158	1.73123	-0.01491	-2.06718	-0.04825	-0.00147	1.17663	0.76937	0.01789	0.64513
0.09112	-0.64130	1.71883	-0.01799	-2.03599	-0.05642	-0.00148	1.11089	0.77482	0.01783	0.64676
0.09326	-0.77663	1.70526	-0.02105	-2.00147	-0.06781	-0.00147	1.03596	0.78184	0.01777	0.64848
0.09545	-0.91519	1.69206	-0.02396	-1.96700	-0.07844	-0.00146	0.96241	0.78926	0.01751	0.65149
0.09770	-1.03403	1.68020	-0.02687	-1.93740	-0.08452	-0.00146	0.90308	0.79518	0.01705	0.65598
0.10000	-1.12701	1.67069	-0.02983	-1.91448	-0.08527	-0.00147	0.86065	0.79903	0.01645	0.66151
0.10235	-1.18507	1.66375	-0.03323	-1.89999	-0.08182	-0.00148	0.83722	0.80026	0.01585	0.66711
0.10476	-1.21764	1.65877	-0.03707	-1.89165	-0.07693	-0.00149	0.82705	0.79964	0.01534	0.67211
0.10723	-1.23499	1.65436	-0.04127	-1.88641	-0.07273	-0.00150	0.82437	0.79793	0.01494	0.67646
0.10975	-1.23832	1.64980	-0.04579	-1.88361	-0.06916	-0.00150	0.82807	0.79513	0.01466	0.67985
0.11233	-1.22900	1.64542	-0.05044	-1.88353	-0.06507	-0.00150	0.83777	0.79126	0.01464	0.68139
0.11498	-1.21582	1.64156	-0.05502	-1.88500	-0.05931	-0.00150	0.84989	0.78690	0.01494	0.68054
0.11768	-1.20665	1.63808	-0.05948	-1.88640	-0.05119	-0.00151	0.86049	0.78271	0.01551	0.67790
0.12045	-1.20262	1.63490	-0.06393	-1.88724	-0.04051	-0.00151	0.86846	0.77889	0.01619	0.67459
0.12328	-1.19405	1.63192	-0.06861	-1.88916	-0.02841	-0.00152	0.87690	0.77503	0.01684	0.67143
0.12619	-1.18672	1.62936	-0.07332	-1.89131	-0.01729	-0.00152	0.88267	0.77174	0.01741	0.66884
0.12916	-1.18575	1.62737	-0.07790	-1.89288	-0.00901	-0.00151	0.88384	0.76938	0.01786	0.66685
0.13219	-1.19324	1.62632	-0.08219	-1.89387	-0.00300	-0.00150	0.88100	0.76781	0.01826	0.66505
0.13531	-1.20946	1.62651	-0.08609	-1.89453	0.00314	-0.00149	0.87614	0.76663	0.01864	0.66320
0.13849	-1.23415	1.62806	-0.08959	-1.89497	0.01264	-0.00150	0.87154	0.76533	0.01901	0.66149
0.14175	-1.26838	1.63061	-0.09264	-1.89461	0.02732	-0.00153	0.86760	0.76370	0.01931	0.66022
0.14508	-1.31498	1.63285	-0.09538	-1.89168	0.04519	-0.00159	0.86131	0.76213	0.01949	0.65966
0.14850	-1.37686	1.63313	-0.09813	-1.88393	0.06194	-0.00165	0.84851	0.76131	0.01950	0.66019
0.15199	-1.45451	1.63059	-0.10114	-1.87026	0.07420	-0.00170	0.82735	0.76167	0.01931	0.66205
0.15557	-1.54190	1.62565	-0.10455	-1.85197	0.08081	-0.00175	0.80044	0.76304	0.01898	0.66485
0.15923	-1.62655	1.61950	-0.10837	-1.83246	0.08312	-0.00179	0.77432	0.76457	0.01861	0.66789
0.16298	-1.69740	1.61349	-0.11255	-1.81515	0.08401	-0.00182	0.75505	0.76524	0.01824	0.67099
0.16681	-1.74585	1.60885	-0.11695	-1.80290	0.08646	-0.00184	0.74776	0.76411	0.01772	0.67487
0.17074	-1.76609	1.60654	-0.12146	-1.79778	0.09269	-0.00187	0.75607	0.76054	0.01699	0.68009
0.17475	-1.76120	1.60677	-0.12604	-1.79956	0.10281	-0.00190	0.77905	0.75478	0.01611	0.68616
0.17887	-1.74333	1.60883	-0.13069	-1.80561	0.11418	-0.00194	0.81037	0.74799	0.01530	0.69164
0.18307	-1.72756	1.61159	-0.13547	-1.81240	0.12336	-0.00196	0.84127	0.74154	0.01483	0.69488
0.18738	-1.72235	1.61397	-0.14045	-1.81758	0.12812	-0.00196	0.86580	0.73616	0.01479	0.69519
0.19179	-1.72782	1.61510	-0.14571	-1.82038	0.12832	-0.00195	0.88293	0.73173	0.01504	0.69364
0.19631	-1.74244	1.61453	-0.15120	-1.82069	0.12562	-0.00193	0.89358	0.72791	0.01534	0.69168
0.20092	-1.76761	1.61224	-0.15677	-1.81827	0.12205	-0.00191	0.89741	0.72458	0.01562	0.68974
0.20565	-1.80835	1.60831	-0.16233	-1.81227	0.11852	-0.00188	0.89217	0.72203	0.01592	0.68752
0.21049	-1.86395	1.60297	-0.16790	-1.80291	0.11498	-0.00186	0.87842	0.72022	0.01625	0.68484
0.21544	-1.93156	1.59674	-0.17349	-1.79095	0.11150	-0.00184	0.85874	0.71898	0.01661	0.68188
0.22051	-2.00408	1.59023	-0.17916	-1.77797	0.10920	-0.00182	0.83826	0.71766	0.01692	0.67904
0.22570	-2.07788	1.58372	-0.18495	-1.76470	0.10947	-0.00181	0.82001	0.71585	0.01715	0.67679
0.23101	-2.15278	1.57729	-0.19083	-1.75104	0.11329	-0.00182	0.80472	0.71342	0.01723	0.67563
0.23645	-2.22853	1.57088	-0.19684	-1.73685	0.12067	-0.00184	0.79247	0.71038	0.01706	0.67635
0.24201	-2.30276	1.56464	-0.20297	-1.72264	0.13100	-0.00187	0.78363	0.70676	0.01660	0.67951
0.24771	-2.36896	1.55884	-0.20928	-1.70997	0.14369	-0.00191	0.78059	0.70227	0.01586	0.68491
0.25354	-2.41949	1.55380	-0.21582	-1.70071	0.15832	-0.00194	0.78639	0.69651	0.01497	0.69183
0.25950	-2.44975	1.54988	-0.22259	-1.69619	0.17470	-0.00197	0.80314	0.68928	0.01404	0.69938
0.26561	-2.45837	1.54733	-0.22954	-1.69692	0.19261	-0.00199	0.83214	0.68057	0.01309	0.70723
0.27186	-2.44903	1.54617	-0.23654	-1.70216	0.21149	-0.00200	0.87239	0.67078	0.01214	0.71532
0.27826	-2.42786	1.54624	-0.24352	-1.71050	0.23086	-0.00201	0.92150	0.66046	0.01120	0.72336
0.28480	-2.40135	1.54738	-0.25036	-1.72052	0.25031	-0.00202	0.97639	0.65015	0.01034	0.73088
0.29150	-2.37512	1.54969	-0.25693	-1.73125	0.26951	-0.00203	1.03404	0.64032	0.00965	0.73737
0.29836	-2.35282	1.55334	-0.26309	-1.74214	0.28818	-0.00204	1.09208	0.63130	0.00914	0.74262

0.30539	-2.33654	1.55837	-0.26874	-1.75283	0.30625	-0.00205	1.14889	0.62324	0.00878	0.74683
0.31257	-2.32624	1.56448	-0.27387	-1.76298	0.32365	-0.00206	1.20385	0.61611	0.00844	0.75084
0.31993	-2.32068	1.57128	-0.27856	-1.77240	0.34026	-0.00208	1.25766	0.60972	0.00798	0.75555
0.32745	-2.31515	1.57857	-0.28286	-1.78176	0.35656	-0.00210	1.31348	0.60368	0.00735	0.76125
0.33517	-2.30610	1.58624	-0.28691	-1.79168	0.37313	-0.00212	1.37396	0.59772	0.00656	0.76778
0.34304	-2.29223	1.59427	-0.29073	-1.80242	0.39017	-0.00214	1.43992	0.59177	0.00570	0.77468
0.35112	-2.27362	1.60268	-0.29442	-1.81401	0.40747	-0.00217	1.51140	0.58586	0.00479	0.78176
0.35938	-2.25330	1.61140	-0.29795	-1.82589	0.42405	-0.00220	1.58497	0.58030	0.00388	0.78886
0.36784	-2.23684	1.62045	-0.30134	-1.83715	0.43859	-0.00222	1.65534	0.57546	0.00301	0.79565
0.37649	-2.22956	1.62980	-0.30451	-1.84696	0.45044	-0.00224	1.71692	0.57162	0.00230	0.80150
0.38536	-2.23820	1.63923	-0.30747	-1.85403	0.45897	-0.00226	1.76255	0.56911	0.00181	0.80591
0.39442	-2.26642	1.64849	-0.31021	-1.85763	0.46422	-0.00227	1.78828	0.56798	0.00161	0.80845
0.40370	-2.31683	1.65735	-0.31275	-1.85723	0.46650	-0.00228	1.79212	0.56817	0.00170	0.80898
0.41321	-2.39120	1.66553	-0.31509	-1.85232	0.46600	-0.00229	1.77276	0.56969	0.00205	0.80787
0.42292	-2.48992	1.67283	-0.31722	-1.84267	0.46300	-0.00229	1.73097	0.57246	0.00258	0.80558
0.43288	-2.61388	1.67919	-0.31915	-1.82807	0.45759	-0.00230	1.66779	0.57646	0.00325	0.80238
0.44307	-2.76129	1.68451	-0.32098	-1.80880	0.45030	-0.00231	1.58593	0.58160	0.00405	0.79846
0.45349	-2.93423	1.68860	-0.32282	-1.78423	0.44093	-0.00233	1.48518	0.58813	0.00498	0.79391
0.46417	-3.13591	1.69123	-0.32478	-1.75335	0.42821	-0.00235	1.36533	0.59642	0.00604	0.78885
0.47508	-3.36096	1.69240	-0.32697	-1.71709	0.41220	-0.00236	1.23362	0.60627	0.00716	0.78377
0.48626	-3.59974	1.69235	-0.32944	-1.67751	0.39415	-0.00238	1.09981	0.61722	0.00820	0.77952
0.49771	-3.83946	1.69143	-0.33225	-1.63735	0.37620	-0.00240	0.97427	0.62843	0.00905	0.77692
0.50942	-4.07094	1.69002	-0.33548	-1.59871	0.35933	-0.00242	0.86315	0.63912	0.00965	0.77634
0.52140	-4.28777	1.68857	-0.33915	-1.56331	0.34401	-0.00244	0.76938	0.64858	0.00999	0.77765
0.53367	-4.48900	1.68740	-0.34326	-1.53171	0.33048	-0.00246	0.69201	0.65648	0.01013	0.78047
0.54624	-4.67608	1.68661	-0.34776	-1.50371	0.31903	-0.00248	0.62878	0.66274	0.01015	0.78410
0.55910	-4.85110	1.68623	-0.35264	-1.47890	0.30973	-0.00251	0.57754	0.66728	0.01012	0.78792
0.57225	-5.01572	1.68640	-0.35784	-1.45707	0.30231	-0.00253	0.53678	0.66997	0.01011	0.79145
0.58569	-5.17159	1.68716	-0.36330	-1.43787	0.29627	-0.00256	0.50496	0.67081	0.01012	0.79459
0.59948	-5.31928	1.68841	-0.36904	-1.42109	0.29163	-0.00258	0.48113	0.66975	0.01017	0.79731
0.61357	-5.45743	1.68996	-0.37502	-1.40676	0.28879	-0.00261	0.46493	0.66669	0.01032	0.79947
0.62802	-5.58900	1.69166	-0.38119	-1.39417	0.28715	-0.00264	0.45487	0.66177	0.01057	0.80094
0.64280	-5.71657	1.69359	-0.38747	-1.38282	0.28644	-0.00266	0.44970	0.65524	0.01092	0.80175
0.65794	-5.84324	1.69589	-0.39379	-1.37223	0.28645	-0.00269	0.44805	0.64748	0.01136	0.80186
0.67340	-5.96953	1.69855	-0.40003	-1.36233	0.28743	-0.00271	0.44907	0.63878	0.01193	0.80112
0.68927	-6.09838	1.70142	-0.40614	-1.35242	0.28900	-0.00273	0.45124	0.62953	0.01267	0.79926
0.70547	-6.23064	1.70437	-0.41200	-1.34208	0.29076	-0.00276	0.45360	0.62007	0.01359	0.79600
0.72207	-6.36653	1.70754	-0.41756	-1.33143	0.29322	-0.00278	0.45663	0.61021	0.01465	0.79129
0.73910	-6.50523	1.71118	-0.42275	-1.32087	0.29658	-0.00281	0.46095	0.59984	0.01581	0.78518
0.75649	-6.64456	1.71540	-0.42755	-1.31087	0.30098	-0.00284	0.46724	0.58892	0.01705	0.77768
0.77429	-6.78331	1.72010	-0.43197	-1.30153	0.30640	-0.00287	0.47594	0.57741	0.01832	0.76879
0.79246	-6.91889	1.72507	-0.43603	-1.29310	0.31264	-0.00289	0.48776	0.56531	0.01959	0.75876
0.81116	-7.05127	1.73023	-0.43977	-1.28561	0.31932	-0.00292	0.50359	0.55241	0.02082	0.74805
0.83022	-7.17821	1.73562	-0.44313	-1.27937	0.32628	-0.00294	0.52437	0.53872	0.02193	0.73744
0.84976	-7.30046	1.74150	-0.44611	-1.27455	0.33377	-0.00296	0.55133	0.52410	0.02288	0.72741
0.86972	-7.41782	1.74800	-0.44867	-1.27127	0.34213	-0.00297	0.58524	0.50868	0.02368	0.71835
0.89023	-7.53123	1.75519	-0.45082	-1.26951	0.35168	-0.00299	0.62705	0.49246	0.02435	0.71045
0.91116	-7.63956	1.76281	-0.45257	-1.26916	0.36257	-0.00300	0.67711	0.47574	0.02491	0.70396
0.93257	-7.74314	1.77065	-0.45394	-1.27000	0.37483	-0.00302	0.73608	0.45858	0.02542	0.69876
0.95456	-7.84327	1.77858	-0.45493	-1.27170	0.38821	-0.00304	0.80422	0.44115	0.02589	0.69468
0.97704	-7.94010	1.78660	-0.45554	-1.27419	0.40266	-0.00306	0.88191	0.42362	0.02633	0.69162
1.00000	-8.03475	1.79487	-0.45574	-1.27737	0.41801	-0.00308	0.96937	0.40618	0.02673	0.68952
1.02354	-8.12925	1.80361	-0.45553	-1.28108	0.43404	-0.00310	1.06638	0.38900	0.02708	0.68836
1.04767	-8.22480	1.81289	-0.45492	-1.28512	0.45048	-0.00312	1.17198	0.37229	0.02736	0.68812
1.07227	-8.32132	1.82261	-0.45395	-1.28931	0.46706	-0.00314	1.28464	0.35629	0.02756	0.68873
1.09745	-8.41905	1.83262	-0.45267	-1.29351	0.48368	-0.00316	1.40380	0.34100	0.02770	0.69012
1.12334	-8.51804	1.84277	-0.45113	-1.29760	0.50026	-0.00318	1.52904	0.32639	0.02778	0.69219
1.14982	-8.61734	1.85285	-0.44939	-1.30149	0.51666	-0.00320	1.65917	0.31254	0.02782	0.69482
1.17675	-8.71664	1.86276	-0.44748	-1.30506	0.53267	-0.00322	1.79224	0.29952	0.02782	0.69786
1.20453	-8.81828	1.87274	-0.44538	-1.30826	0.54836	-0.00324	1.92841	0.28718	0.02778	0.70118
1.23289	-8.92195	1.88282	-0.44312	-1.31105	0.56343	-0.00326	2.06503	0.27565	0.02771	0.70458
1.26183	-9.02804	1.89316	-0.44069	-1.31347	0.57790	-0.00328	2.20106	0.26493	0.02761	0.70801
1.29149	-9.13748	1.90391	-0.43808	-1.31557	0.59184	-0.00330	2.33599	0.25494	0.02746	0.71153
1.32188	-9.25041	1.91510	-0.43529	-1.31733	0.60520	-0.00332	2.46837	0.24572	0.02727	0.71518
1.35300	-9.36666	1.92666	-0.43234	-1.31871	0.61792	-0.00334	2.59684	0.23723	0.02705	0.71902
1.38485	-9.48558	1.93846	-0.42927	-1.31972	0.63001	-0.00335	2.72065	0.22945	0.02682	0.72311
1.41743	-9.60644	1.95036	-0.42609	-1.32036	0.64151	-0.00337	2.83913	0.22234	0.02658	0.72751
1.45075	-9.72856	1.96222	-0.42283	-1.32063	0.65245	-0.00338	2.95185	0.21584	0.02636	0.73225
1.48500	-9.85230	1.97403	-0.41949	-1.32054	0.66293	-0.00340	3.05888	0.20990	0.02615	0.73732
1.51999	-9.97658	1.98573	-0.41610	-1.32016	0.67292	-0.00341	3.15921	0.20453	0.02595	0.74269
1.55569	-10.10151	1.99736	-0.41264	-1.31952	0.68244	-0.00343	3.25211	0.19972	0.02576	0.74838
1.59236	-10.22801	2.00910	-0.40910	-1.31868	0.69158	-0.00344	3.33796	0.19544	0.02556	0.75446
1.62973	-10.35569	2.02095	-0.40549	-1.31764	0.70025	-0.00346	3.41529	0.19171	0.02535	0.76089
1.66806	-10.48547	2.03310	-0.40178	-1.31646	0.70855	-0.00347	3.48475	0.18847	0.02510	0.76775
1.70736	-10.61747	2.04557	-0.39797	-1.31518	0.71649	-0.00348	3.54606	0.18571	0.02480	0.77507
1.74764	-10.75164	2.05839	-0.39406	-1.31379	0.72407	-0.00349	3.59915	0.18342	0.02446	0.78288
1.78859	-10.88667	2.07141	-0.39009	-1.31233	0.73127	-0.00350	3.64387	0.18157	0.02407	0.79110
1.83083	-11.02414	2.08477	-0.38602	-1.31080	0.73823	-0.00351	3.68133	0.18010	0.02364	0.79985
1.87371	-11.16136	2.09817	-0.38193	-1.30925	0.74489	-0.00352	3.71160	0.17901	0.02317	0.80894
1.91791	-11.30003	2.11171	-0.37776	-1.30764	0.75137	-0.00353	3.73555	0.17823	0.02268	0.81842
1.96309	-11.43853	2.12520	-0.37358	-1.30600	0.75764	-0.00353	3.75359	0.17775	0.02217	0.82806

2.00924	-11.57639	2.13856	-0.36938	-1.30434	0.76376	-0.00354	3.76649	0.17751	0.02167	0.83770
2.05634	-11.71328	2.15174	-0.36518	-1.30268	0.76972	-0.00355	3.77476	0.17750	0.02118	0.84716
2.10482	-11.85036	2.16483	-0.36094	-1.30099	0.77559	-0.00355	3.77854	0.17770	0.02070	0.85637
2.15424	-11.98644	2.17773	-0.35670	-1.29927	0.78129	-0.00356	3.77770	0.17811	0.02023	0.86506
2.20507	-12.12286	2.19057	-0.35241	-1.29752	0.78689	-0.00357	3.77250	0.17871	0.01976	0.87319
2.25683	-12.25845	2.20329	-0.34812	-1.29576	0.79231	-0.00357	3.76327	0.17950	0.01930	0.88077
2.31000	-12.39466	2.21603	-0.34376	-1.29399	0.79760	-0.00358	3.75011	0.18046	0.01884	0.88798
2.36463	-12.53157	2.22886	-0.33934	-1.29223	0.80278	-0.00358	3.73343	0.18158	0.01836	0.89493
2.42014	-12.66792	2.24168	-0.33489	-1.29050	0.80779	-0.00359	3.71378	0.18284	0.01787	0.90168
2.47709	-12.80499	2.25462	-0.33036	-1.28882	0.81268	-0.00359	3.69171	0.18423	0.01735	0.90847
2.53550	-12.94277	2.26771	-0.32576	-1.28720	0.81748	-0.00359	3.66759	0.18572	0.01682	0.91545
2.59471	-13.07972	2.28081	-0.32114	-1.28566	0.82213	-0.00360	3.64208	0.18728	0.01627	0.92267
2.65604	-13.21849	2.29414	-0.31639	-1.28420	0.82674	-0.00360	3.61544	0.18892	0.01570	0.93032
2.71887	-13.35754	2.30759	-0.31158	-1.28282	0.83128	-0.00360	3.58812	0.19061	0.01511	0.93837
2.78242	-13.49504	2.32096	-0.30676	-1.28156	0.83570	-0.00360	3.56091	0.19231	0.01453	0.94675
2.84819	-13.63365	2.33443	-0.30183	-1.28040	0.84010	-0.00360	3.53393	0.19402	0.01394	0.95571
2.91545	-13.77206	2.34798	-0.29689	-1.27933	0.84447	-0.00360	3.50707	0.19573	0.01336	0.96517
2.98329	-13.90755	2.36117	-0.29193	-1.27838	0.84872	-0.00360	3.48180	0.19739	0.01279	0.97489
3.05344	-14.04401	2.37451	-0.28695	-1.27751	0.85300	-0.00359	3.45669	0.19904	0.01224	0.98489
3.12598	-14.18076	2.38777	-0.28183	-1.27674	0.85727	-0.00359	3.43268	0.20066	0.01170	0.99496
3.19898	-14.31431	2.40073	-0.27683	-1.27607	0.86146	-0.00359	3.40989	0.20222	0.01119	1.00455
3.27439	-14.44806	2.41360	-0.27172	-1.27548	0.86565	-0.00359	3.38810	0.20376	0.01071	1.01364
3.35121	-14.57994	2.42626	-0.26667	-1.27498	0.86981	-0.00358	3.36744	0.20523	0.01026	1.02195
3.43053	-14.71194	2.43882	-0.26151	-1.27456	0.87396	-0.00358	3.34781	0.20667	0.00982	1.02984
3.51124	-14.84197	2.45116	-0.25644	-1.27422	0.87808	-0.00357	3.32922	0.20804	0.00942	1.03742
3.59324	-14.96965	2.46308	-0.25130	-1.27396	0.88209	-0.00357	3.31230	0.20936	0.00903	1.04504
3.67782	-15.09801	2.47521	-0.24624	-1.27376	0.88617	-0.00357	3.29544	0.21064	0.00866	1.05314
3.76506	-15.22482	2.48677	-0.24097	-1.27365	0.89012	-0.00356	3.28091	0.21185	0.00829	1.06213
3.85356	-15.35183	2.49876	-0.23592	-1.27357	0.89413	-0.00356	3.26555	0.21305	0.00794	1.07177
3.94477	-15.47573	2.50982	-0.23064	-1.27361	0.89795	-0.00355	3.25344	0.21414	0.00760	1.08205
4.03714	-15.60075	2.52149	-0.22553	-1.27368	0.90183	-0.00355	3.24004	0.21525	0.00727	1.09251
4.13223	-15.72313	2.53251	-0.22037	-1.27383	0.90558	-0.00354	3.22906	0.21625	0.00696	1.10307
4.23012	-15.84594	2.54346	-0.21501	-1.27405	0.90925	-0.00353	3.21880	0.21724	0.00664	1.11341
4.32900	-15.96893	2.55499	-0.21002	-1.27430	0.91301	-0.00353	3.20757	0.21821	0.00636	1.12296
4.43066	-16.08655	2.56499	-0.20467	-1.27466	0.91641	-0.00352	3.20042	0.21904	0.00607	1.13196
4.53515	-16.20939	2.57632	-0.19944	-1.27505	0.92000	-0.00351	3.19087	0.21995	0.00579	1.14031
4.64253	-16.33011	2.58728	-0.19435	-1.27549	0.92353	-0.00351	3.18280	0.22078	0.00553	1.14806
4.75059	-16.44432	2.59672	-0.18892	-1.27604	0.92663	-0.00350	3.17791	0.22150	0.00525	1.15523
4.86145	-16.56592	2.60821	-0.18385	-1.27659	0.93008	-0.00349	3.16955	0.22232	0.00500	1.16180
4.97760	-16.68439	2.61864	-0.17869	-1.27720	0.93337	-0.00348	3.16403	0.22302	0.00475	1.16807
5.09424	-16.79666	2.62764	-0.17317	-1.27792	0.93621	-0.00347	3.16098	0.22365	0.00447	1.17396
5.21376	-16.91817	2.63922	-0.16809	-1.27862	0.93952	-0.00346	3.15407	0.22439	0.00423	1.17937
5.33618	-17.03318	2.64939	-0.16316	-1.27936	0.94259	-0.00345	3.14994	0.22499	0.00399	1.18456
5.46150	-17.14072	2.65736	-0.15761	-1.28020	0.94508	-0.00344	3.14911	0.22552	0.00371	1.18980
5.58971	-17.25910	2.66826	-0.15243	-1.28106	0.94807	-0.00343	3.14441	0.22615	0.00346	1.19485
5.72082	-17.37680	2.67946	-0.14776	-1.28192	0.95118	-0.00342	3.14006	0.22671	0.00324	1.19986
5.85823	-17.48105	2.68650	-0.14228	-1.28286	0.95342	-0.00341	3.14100	0.22715	0.00296	1.20546
5.99520	-17.59040	2.69525	-0.13688	-1.28383	0.95582	-0.00340	3.13960	0.22766	0.00268	1.21106
6.13497	-17.71051	2.70725	-0.13222	-1.28482	0.95887	-0.00338	3.13540	0.22820	0.00247	1.21651
6.28141	-17.81806	2.71581	-0.12745	-1.28578	0.96133	-0.00337	3.13517	0.22858	0.00223	1.22240
6.42674	-17.91182	2.72102	-0.12204	-1.28678	0.96296	-0.00336	3.13731	0.22896	0.00194	1.22861
6.57895	-18.02197	2.73006	-0.11679	-1.28788	0.96524	-0.00335	3.13635	0.22942	0.00167	1.23494
6.73401	-18.14254	2.74235	-0.11236	-1.28900	0.96821	-0.00333	3.13390	0.22983	0.00148	1.24104
6.89180	-18.23953	2.74894	-0.10786	-1.29001	0.97017	-0.00332	3.13564	0.23012	0.00124	1.24751
7.05716	-18.32680	2.75215	-0.10241	-1.29105	0.97134	-0.00331	3.13867	0.23047	0.00094	1.25459
7.22022	-18.42590	2.75912	-0.09740	-1.29215	0.97309	-0.00330	3.13919	0.23085	0.00067	1.26116
7.39098	-18.54366	2.77079	-0.09295	-1.29337	0.97574	-0.00328	3.13822	0.23119	0.00048	1.26734
7.56430	-18.64426	2.77878	-0.08902	-1.29445	0.97787	-0.00327	3.13990	0.23140	0.00030	1.27323
7.73994	-18.71159	2.77811	-0.08425	-1.29531	0.97833	-0.00326	3.14357	0.23169	-0.00000	1.27941
7.92393	-18.79328	2.78051	-0.07924	-1.29631	0.97922	-0.00325	3.14587	0.23202	-0.00029	1.28521
8.11030	-18.88869	2.78665	-0.07453	-1.29743	0.98072	-0.00324	3.14663	0.23235	-0.00054	1.29033
8.29876	-19.00215	2.79794	-0.07052	-1.29869	0.98314	-0.00322	3.14661	0.23262	-0.00070	1.29459
8.49618	-19.08229	2.80096	-0.06686	-1.29961	0.98434	-0.00321	3.14947	0.23279	-0.00090	1.29899
8.69565	-19.12390	2.79430	-0.06265	-1.30017	0.98381	-0.00321	3.15430	0.23296	-0.00121	1.30389
8.90472	-19.18610	2.79228	-0.05826	-1.30094	0.98398	-0.00320	3.15807	0.23313	-0.00150	1.30858
9.11577	-19.25510	2.79227	-0.05405	-1.30177	0.98444	-0.00319	3.16104	0.23331	-0.00177	1.31307
9.32836	-19.35321	2.79961	-0.04984	-1.30291	0.98597	-0.00318	3.16025	0.23366	-0.00197	1.31720
9.54198	-19.43873	2.80480	-0.04659	-1.30387	0.98735	-0.00317	3.16131	0.23385	-0.00213	1.32128
9.76563	-19.45231	2.79268	-0.04420	-1.30398	0.98627	-0.00316	3.17124	0.23352	-0.00237	1.32654
10.00000	-19.45957	2.77873	-0.04175	-1.30403	0.98494	-0.00316	3.18438	0.23295	-0.00264	1.33263

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
High stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 61 - 152 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	0.10580	2.31397	-0.20416	-2.92461	0.89875	-0.00041	10.04658	0.26783	0.01586	0.30252
PGV	10.35430	1.80250	-0.19903	-3.83615	0.88757	0.00066	18.87211	0.25610	0.00792	0.37351
PGA	4.99456	1.64327	-0.07525	-3.22676	0.29581	0.00012	7.34498	0.47417	-0.03005	0.77788
0.01000	4.83227	1.65351	-0.07238	-3.19311	0.26571	0.00009	7.14136	0.48301	-0.00797	0.71902
0.01024	4.83779	1.65383	-0.07209	-3.19378	0.26476	0.00009	7.14349	0.48321	-0.00801	0.71959
0.01048	4.84627	1.65416	-0.07178	-3.19494	0.26392	0.00009	7.14973	0.48334	-0.00806	0.72016
0.01072	4.85767	1.65448	-0.07147	-3.19660	0.26317	0.00009	7.15997	0.48341	-0.00812	0.72073
0.01097	4.87205	1.65481	-0.07114	-3.19876	0.26249	0.00009	7.17425	0.48342	-0.00818	0.72130
0.01123	4.88952	1.65515	-0.07080	-3.20143	0.26188	0.00010	7.19268	0.48336	-0.00825	0.72190
0.01150	4.91035	1.65551	-0.07044	-3.20467	0.26131	0.00010	7.21560	0.48324	-0.00834	0.72251
0.01177	4.93493	1.65588	-0.07005	-3.20852	0.26078	0.00010	7.24352	0.48306	-0.00843	0.72317
0.01205	4.96361	1.65627	-0.06963	-3.21305	0.26029	0.00011	7.27691	0.48280	-0.00854	0.72388
0.01233	4.99669	1.65670	-0.06919	-3.21831	0.25984	0.00011	7.31613	0.48247	-0.00866	0.72463
0.01262	5.03429	1.65718	-0.06871	-3.22432	0.25943	0.00012	7.36132	0.48207	-0.00880	0.72544
0.01292	5.07660	1.65769	-0.06818	-3.23109	0.25906	0.00012	7.41276	0.48161	-0.00894	0.72633
0.01322	5.12427	1.65825	-0.06761	-3.23874	0.25870	0.00013	7.47131	0.48107	-0.00911	0.72730
0.01353	5.17847	1.65888	-0.06698	-3.24744	0.25834	0.00013	7.53854	0.48044	-0.00929	0.72839
0.01385	5.24025	1.65958	-0.06628	-3.25739	0.25802	0.00014	7.61606	0.47970	-0.00950	0.72965
0.01417	5.30964	1.66035	-0.06551	-3.26855	0.25776	0.00015	7.70412	0.47886	-0.00973	0.73114
0.01451	5.38593	1.66118	-0.06465	-3.28076	0.25753	0.00016	7.80188	0.47794	-0.01000	0.73287
0.01485	5.46851	1.66208	-0.06368	-3.29389	0.25728	0.00017	7.90847	0.47697	-0.01030	0.73485
0.01520	5.55702	1.66307	-0.06261	-3.30787	0.25695	0.00018	8.02334	0.47596	-0.01064	0.73713
0.01556	5.65116	1.66416	-0.06143	-3.32261	0.25648	0.00019	8.14620	0.47495	-0.01101	0.73974
0.01592	5.75127	1.66535	-0.06011	-3.33812	0.25581	0.00020	8.27766	0.47393	-0.01142	0.74268
0.01630	5.85771	1.66669	-0.05865	-3.35445	0.25490	0.00021	8.41839	0.47291	-0.01187	0.74593
0.01668	5.96952	1.66815	-0.05704	-3.37142	0.25374	0.00022	8.56716	0.47192	-0.01234	0.74943
0.01707	6.08441	1.66970	-0.05528	-3.38860	0.25227	0.00023	8.72035	0.47100	-0.01282	0.75310
0.01748	6.19968	1.67132	-0.05340	-3.40552	0.25049	0.00023	8.87301	0.47022	-0.01331	0.75692
0.01789	6.31529	1.67311	-0.05140	-3.42223	0.24844	0.00024	9.02436	0.46960	-0.01383	0.76102
0.01831	6.43522	1.67526	-0.04927	-3.43956	0.24613	0.00025	9.17946	0.46910	-0.01439	0.76550
0.01874	6.55908	1.67783	-0.04701	-3.45751	0.24343	0.00025	9.33724	0.46874	-0.01500	0.77043
0.01918	6.66957	1.68065	-0.04461	-3.47298	0.24002	0.00026	9.47216	0.46881	-0.01565	0.77559
0.01963	6.74111	1.68361	-0.04204	-3.48155	0.23564	0.00025	9.54480	0.46977	-0.01627	0.78069
0.02009	6.75982	1.68665	-0.03929	-3.48093	0.23045	0.00024	9.53379	0.47182	-0.01687	0.78558
0.02057	6.74369	1.68985	-0.03643	-3.47435	0.22471	0.00022	9.46797	0.47459	-0.01743	0.79030
0.02105	6.72275	1.69335	-0.03355	-3.46711	0.21877	0.00019	9.39409	0.47753	-0.01799	0.79503
0.02154	6.69730	1.69710	-0.03058	-3.45926	0.21307	0.00017	9.31399	0.48058	-0.01856	0.79982
0.02205	6.65836	1.70104	-0.02752	-3.44925	0.20761	0.00014	9.21386	0.48390	-0.01910	0.80435
0.02257	6.60507	1.70507	-0.02447	-3.43691	0.20136	0.00011	9.08948	0.48760	-0.01955	0.80830
0.02310	6.53539	1.70918	-0.02155	-3.42191	0.19397	0.00008	8.93772	0.49172	-0.01984	0.81119
0.02364	6.44624	1.71357	-0.01879	-3.40390	0.18551	0.00005	8.75465	0.49637	-0.01991	0.81259
0.02420	6.33577	1.71859	-0.01606	-3.38278	0.17699	0.00002	8.54123	0.50157	-0.01984	0.81311
0.02477	6.21024	1.72432	-0.01331	-3.35967	0.16920	-0.00002	8.31014	0.50715	-0.01974	0.81345
0.02535	6.06275	1.72993	-0.01060	-3.33291	0.16116	-0.00006	8.05215	0.51321	-0.01955	0.81314
0.02595	5.89038	1.73459	-0.00783	-3.30133	0.15292	-0.00010	7.77072	0.51963	-0.01930	0.81227
0.02656	5.70481	1.73912	-0.00510	-3.26755	0.14460	-0.00015	7.48078	0.52631	-0.01908	0.81156
0.02719	5.50223	1.74436	-0.00245	-3.23163	0.13575	-0.00020	7.17360	0.53353	-0.01883	0.81064
0.02783	5.30481	1.75050	0.00011	-3.19742	0.12794	-0.00025	6.88250	0.54072	-0.01854	0.80935
0.02848	5.11609	1.75725	0.00259	-3.16536	0.12079	-0.00030	6.60697	0.54787	-0.01830	0.80836
0.02915	4.90200	1.76441	0.00528	-3.12943	0.11242	-0.00035	6.30041	0.55595	-0.01815	0.80803
0.02984	4.66191	1.77152	0.00822	-3.08923	0.10286	-0.00040	5.96706	0.56493	-0.01796	0.80745
0.03054	4.41842	1.77778	0.01108	-3.04819	0.09293	-0.00045	5.63752	0.57412	-0.01767	0.80625
0.03126	4.19356	1.78311	0.01355	-3.01011	0.08283	-0.00049	5.33579	0.58297	-0.01730	0.80484
0.03199	3.99784	1.78820	0.01562	-2.97729	0.07268	-0.00051	5.07035	0.59130	-0.01669	0.80202
0.03275	3.81841	1.79370	0.01762	-2.94784	0.06259	-0.00053	4.82801	0.59943	-0.01582	0.79744
0.03352	3.62614	1.79975	0.01989	-2.91666	0.05196	-0.00055	4.58017	0.60813	-0.01506	0.79356
0.03430	3.42173	1.80596	0.02231	-2.88376	0.04132	-0.00058	4.32823	0.61732	-0.01465	0.79206
0.03511	3.21690	1.81114	0.02455	-2.85038	0.03115	-0.00060	4.08312	0.62656	-0.01453	0.79257
0.03594	3.01559	1.81565	0.02654	-2.81730	0.02146	-0.00061	3.84993	0.63575	-0.01455	0.79410
0.03678	2.82098	1.82094	0.02839	-2.78588	0.01302	-0.00064	3.63589	0.64475	-0.01458	0.79573
0.03765	2.63135	1.82590	0.03013	-2.75494	0.00637	-0.00067	3.44137	0.65332	-0.01453	0.79671
0.03854	2.44395	1.82827	0.03164	-2.72226	-0.00064	-0.00069	3.25912	0.66153	-0.01440	0.79703
0.03944	2.26558	1.82749	0.03258	-2.68863	-0.01008	-0.00071	3.08726	0.66948	-0.01430	0.79747
0.04037	2.09817	1.82512	0.03296	-2.65566	-0.01985	-0.00073	2.92799	0.67709	-0.01434	0.79860
0.04132	1.93339	1.82382	0.03336	-2.62399	-0.02708	-0.00075	2.78063	0.68449	-0.01441	0.79984
0.04229	1.76440	1.82428	0.03412	-2.59305	-0.03260	-0.00077	2.63936	0.69204	-0.01441	0.80049
0.04329	1.59502	1.82572	0.03507	-2.56310	-0.03810	-0.00080	2.50166	0.69988	-0.01430	0.80032
0.04431	1.43126	1.82734	0.03579	-2.53470	-0.04451	-0.00082	2.36763	0.70793	-0.01407	0.79944
0.04535	1.29616	1.82760	0.03580	-2.51056	-0.05148	-0.00083	2.25278	0.71509	-0.01376	0.79818

0.04642	1.19708	1.82632	0.03525	-2.49145	-0.05741	-0.00083	2.16506	0.72070	-0.01339	0.79656
0.04751	1.12500	1.82415	0.03444	-2.47622	-0.06154	-0.00083	2.09827	0.72505	-0.01282	0.79370
0.04863	1.04054	1.82106	0.03363	-2.45832	-0.06631	-0.00082	2.02308	0.72998	-0.01202	0.78908
0.04977	0.92224	1.81651	0.03258	-2.43350	-0.07675	-0.00081	1.92126	0.73703	-0.01116	0.78385
0.05094	0.78716	1.81092	0.03100	-2.40464	-0.09433	-0.00079	1.80507	0.74584	-0.01041	0.77915
0.05214	0.65779	1.80551	0.02909	-2.37674	-0.11440	-0.00075	1.69457	0.75495	-0.00973	0.77499
0.05337	0.54113	1.80021	0.02728	-2.35138	-0.13080	-0.00072	1.59903	0.76311	-0.00902	0.77088
0.05462	0.44736	1.79427	0.02564	-2.32985	-0.14008	-0.00071	1.52584	0.76921	-0.00827	0.76658
0.05591	0.37425	1.78830	0.02422	-2.31199	-0.14296	-0.00070	1.47328	0.77327	-0.00747	0.76198
0.05722	0.30669	1.78359	0.02304	-2.29579	-0.14290	-0.00071	1.43151	0.77644	-0.00656	0.75680
0.05857	0.23883	1.78028	0.02183	-2.27993	-0.14324	-0.00072	1.39460	0.77953	-0.00571	0.75224
0.05995	0.17250	1.77860	0.02034	-2.26511	-0.14491	-0.00074	1.35996	0.78291	-0.00514	0.74966
0.06136	0.10684	1.77908	0.01850	-2.25237	-0.14762	-0.00074	1.32316	0.78698	-0.00472	0.74819
0.06280	0.04414	1.78004	0.01622	-2.24138	-0.15175	-0.00074	1.28232	0.79160	-0.00425	0.74638
0.06428	-0.01299	1.77936	0.01368	-2.23080	-0.15721	-0.00072	1.24138	0.79604	-0.00382	0.74483
0.06579	-0.05196	1.77674	0.01099	-2.22191	-0.16109	-0.00071	1.21277	0.79874	-0.00369	0.74505
0.06734	-0.08327	1.77304	0.00844	-2.21291	-0.16051	-0.00071	1.19585	0.79978	-0.00374	0.74659
0.06893	-0.13069	1.76890	0.00625	-2.20020	-0.15720	-0.00074	1.17639	0.80097	-0.00377	0.74796
0.07055	-0.20226	1.76494	0.00431	-2.18346	-0.15609	-0.00076	1.14303	0.80401	-0.00372	0.74850
0.07221	-0.29007	1.76129	0.00231	-2.16457	-0.16036	-0.00076	1.09603	0.80918	-0.00376	0.74917
0.07391	-0.37246	1.75670	-0.00013	-2.14609	-0.16842	-0.00075	1.04848	0.81471	-0.00402	0.75082
0.07565	-0.45812	1.75139	-0.00268	-2.12648	-0.17631	-0.00075	1.00247	0.82008	-0.00444	0.75337
0.07743	-0.55810	1.74640	-0.00513	-2.10472	-0.18283	-0.00075	0.95468	0.82578	-0.00480	0.75549
0.07925	-0.66542	1.74089	-0.00782	-2.08144	-0.19086	-0.00075	0.90443	0.83210	-0.00482	0.75548
0.08111	-0.76248	1.73397	-0.01080	-2.05885	-0.20023	-0.00075	0.85838	0.83804	-0.00457	0.75389
0.08302	-0.80351	1.72522	-0.01445	-2.04477	-0.20357	-0.00074	0.83719	0.83963	-0.00432	0.75253
0.08498	-0.79244	1.71567	-0.01841	-2.03940	-0.19625	-0.00075	0.84170	0.83628	-0.00403	0.75140
0.08697	-0.75899	1.70694	-0.02206	-2.03878	-0.18098	-0.00077	0.86004	0.83039	-0.00355	0.74953
0.08902	-0.72127	1.70099	-0.02537	-2.04133	-0.16406	-0.00080	0.88237	0.82427	-0.00277	0.74611
0.09112	-0.68103	1.69847	-0.02887	-2.04734	-0.15080	-0.00082	0.90438	0.81901	-0.00168	0.74092
0.09326	-0.64559	1.69731	-0.03296	-2.05379	-0.14467	-0.00081	0.91970	0.81542	-0.00036	0.73403
0.09545	-0.63887	1.69494	-0.03741	-2.05418	-0.14596	-0.00079	0.91801	0.81458	0.00107	0.72617
0.09770	-0.67839	1.69144	-0.04135	-2.04542	-0.14930	-0.00077	0.89761	0.81638	0.00242	0.71861
0.10000	-0.74573	1.68933	-0.04407	-2.03282	-0.14695	-0.00079	0.87400	0.81845	0.00353	0.71260
0.10235	-0.80861	1.69025	-0.04559	-2.02358	-0.13557	-0.00084	0.86238	0.81850	0.00436	0.70847
0.10476	-0.84983	1.69341	-0.04677	-2.02021	-0.11945	-0.00090	0.86426	0.81645	0.00499	0.70576
0.10723	-0.86552	1.69619	-0.04870	-2.02120	-0.10631	-0.00094	0.87370	0.81337	0.00546	0.70455
0.10975	-0.86353	1.69615	-0.05195	-2.02299	-0.10113	-0.00095	0.88306	0.81044	0.00581	0.70456
0.11233	-0.86781	1.69287	-0.05610	-2.02085	-0.10277	-0.00093	0.88382	0.80879	0.00625	0.70426
0.11498	-0.88542	1.68728	-0.06061	-2.01437	-0.10465	-0.00092	0.87776	0.80787	0.00687	0.70270
0.11768	-0.93514	1.68149	-0.06462	-2.00211	-0.10204	-0.00093	0.86058	0.80833	0.00757	0.70040
0.12045	-1.02388	1.67656	-0.06774	-1.98398	-0.09597	-0.00095	0.82823	0.81113	0.00807	0.69893
0.12328	-1.13808	1.67267	-0.07016	-1.96250	-0.08916	-0.00099	0.78551	0.81592	0.00817	0.69959
0.12619	-1.25347	1.66980	-0.07234	-1.94154	-0.08293	-0.00102	0.74405	0.82107	0.00784	0.70266
0.12916	-1.34973	1.66681	-0.07495	-1.92329	-0.07965	-0.00105	0.71154	0.82517	0.00726	0.70708
0.13219	-1.42920	1.66237	-0.07824	-1.90609	-0.08284	-0.00105	0.68466	0.82873	0.00674	0.71076
0.13531	-1.48612	1.65578	-0.08243	-1.89071	-0.09404	-0.00103	0.66273	0.83174	0.00648	0.71245
0.13849	-1.53044	1.64739	-0.08730	-1.87593	-0.11248	-0.00097	0.64169	0.83491	0.00641	0.71252
0.14175	-1.57294	1.63815	-0.09241	-1.86100	-0.13233	-0.00090	0.62026	0.83818	0.00647	0.71155
0.14508	-1.62495	1.62989	-0.09710	-1.84582	-0.14530	-0.00086	0.59858	0.84117	0.00677	0.70879
0.14850	-1.68358	1.62440	-0.10111	-1.83269	-0.14535	-0.00085	0.58084	0.84279	0.00736	0.70369
0.15199	-1.73291	1.62229	-0.10470	-1.82490	-0.13033	-0.00089	0.57362	0.84142	0.00806	0.69760
0.15557	-1.75224	1.62248	-0.10861	-1.82485	-0.10339	-0.00095	0.58226	0.83592	0.00853	0.69303
0.15923	-1.73513	1.62307	-0.11342	-1.83175	-0.07140	-0.00103	0.60584	0.82690	0.00864	0.69128
0.16298	-1.69419	1.62293	-0.11909	-1.84214	-0.04044	-0.00109	0.63823	0.81631	0.00844	0.69216
0.16681	-1.65917	1.62295	-0.12478	-1.85114	-0.01382	-0.00114	0.66923	0.80676	0.00800	0.69528
0.17074	-1.65464	1.62411	-0.12983	-1.85507	0.00606	-0.00119	0.68890	0.80037	0.00738	0.69989
0.17475	-1.69821	1.62574	-0.13387	-1.85005	0.01685	-0.00123	0.68823	0.79862	0.00678	0.70460
0.17887	-1.79975	1.62592	-0.13687	-1.83261	0.01832	-0.00127	0.66232	0.80218	0.00635	0.70845
0.18307	-1.94703	1.62302	-0.13922	-1.80357	0.01245	-0.00129	0.61669	0.81008	0.00612	0.71136
0.18738	-2.11702	1.61702	-0.14146	-1.76723	0.00168	-0.00131	0.56197	0.82065	0.00599	0.71365
0.19179	-2.27514	1.60904	-0.14421	-1.73117	-0.01113	-0.00132	0.51198	0.83099	0.00596	0.71524
0.19631	-2.40118	1.60070	-0.14774	-1.70081	-0.02297	-0.00132	0.47430	0.83887	0.00609	0.71544
0.20092	-2.48849	1.59350	-0.15206	-1.67903	-0.03165	-0.00132	0.45102	0.84309	0.00642	0.71403
0.20565	-2.54028	1.58839	-0.15697	-1.66632	-0.03655	-0.00131	0.44066	0.84360	0.00680	0.71213
0.21049	-2.56963	1.58549	-0.16223	-1.66043	-0.03917	-0.00130	0.43864	0.84163	0.00711	0.71076
0.21544	-2.59393	1.58435	-0.16771	-1.65765	-0.04141	-0.00129	0.43928	0.83891	0.00745	0.70937
0.22051	-2.62328	1.58402	-0.17346	-1.65518	-0.04385	-0.00127	0.43920	0.83632	0.00798	0.70707
0.22570	-2.65491	1.58358	-0.17954	-1.65261	-0.04513	-0.00126	0.43925	0.83341	0.00868	0.70394
0.23101	-2.67930	1.58287	-0.18586	-1.65142	-0.04218	-0.00126	0.44321	0.82899	0.00949	0.70044
0.23645	-2.69208	1.58220	-0.19222	-1.65241	-0.03266	-0.00127	0.45357	0.82240	0.01034	0.69693
0.24201	-2.70081	1.58151	-0.19837	-1.65382	-0.01670	-0.00129	0.46827	0.81450	0.01116	0.69381
0.24771	-2.71743	1.58044	-0.20419	-1.65303	0.00375	-0.00134	0.48254	0.80677	0.01192	0.69114
0.25354	-2.74381	1.57892	-0.20971	-1.64968	0.02630	-0.00139	0.49420	0.79988	0.01262	0.68913
0.25950	-2.77519	1.57709	-0.21493	-1.64499	0.04863	-0.00144	0.50351	0.79376	0.01315	0.68834
0.26561	-2.81135	1.57497	-0.21981	-1.63903	0.06772	-0.00148	0.50949	0.78873	0.01336	0.68962
0.27186	-2.85527	1.57267	-0.22436	-1.63131	0.08070	-0.00151	0.51044	0.78526	0.01317	0.69328
0.27826	-2.91040	1.57080	-0.22867	-1.62174	0.08636	-0.00153	0.50542	0.78370	0.01266	0.69876
0.28480	-2.97762	1.57004	-0.23290	-1.61081	0.08528	-0.00153	0.49499	0.78397	0.01204	0.70460
0.29150	-3.05766	1.57042	-0.23720	-1.59851	0.07838	-0.00153	0.47988	0.78586	0.01150	0.70962
0.29836	-3.14719	1.57155	-0.24174	-1.58509	0.06689	-0.00153	0.46213	0.78876	0.01106	0.71371

0.30539	-3.24221	1.57323	-0.24656	-1.57125	0.05307	-0.00152	0.44400	0.79195	0.01073	0.71705
0.31257	-3.34097	1.57561	-0.25159	-1.55765	0.04007	-0.00152	0.42668	0.79497	0.01060	0.71923
0.31993	-3.44167	1.57897	-0.25672	-1.54509	0.03071	-0.00153	0.41131	0.79737	0.01072	0.72002
0.32745	-3.53983	1.58349	-0.26181	-1.53462	0.02664	-0.00155	0.39945	0.79861	0.01096	0.72007
0.33517	-3.62951	1.58917	-0.26680	-1.52746	0.02857	-0.00158	0.39287	0.79800	0.01112	0.72055
0.34304	-3.70741	1.59587	-0.27168	-1.52413	0.03653	-0.00162	0.39217	0.79527	0.01112	0.72190
0.35112	-3.77436	1.60340	-0.27656	-1.52433	0.04999	-0.00166	0.39684	0.79055	0.01097	0.72399
0.35938	-3.83077	1.61138	-0.28153	-1.52746	0.06804	-0.00171	0.40658	0.78405	0.01066	0.72695
0.36784	-3.87654	1.61954	-0.28672	-1.53315	0.08983	-0.00177	0.42175	0.77579	0.01023	0.73067
0.37649	-3.90995	1.62763	-0.29225	-1.54130	0.11388	-0.00182	0.44292	0.76585	0.00976	0.73476
0.38536	-3.93059	1.63532	-0.29818	-1.55168	0.13910	-0.00187	0.47019	0.75447	0.00924	0.73933
0.39442	-3.94280	1.64232	-0.30437	-1.56320	0.16472	-0.00191	0.50197	0.74226	0.00862	0.74469
0.40370	-3.95552	1.64845	-0.31070	-1.57391	0.18950	-0.00195	0.53467	0.73023	0.00788	0.75092
0.41321	-3.97898	1.65344	-0.31707	-1.58148	0.21199	-0.00199	0.56326	0.71949	0.00704	0.75798
0.42292	-4.02071	1.65727	-0.32342	-1.58433	0.23131	-0.00202	0.58345	0.71081	0.00615	0.76567
0.43288	-4.08366	1.66014	-0.32973	-1.58206	0.24702	-0.00205	0.59328	0.70440	0.00520	0.77401
0.44307	-4.16518	1.66243	-0.33591	-1.57556	0.25971	-0.00208	0.59358	0.69999	0.00415	0.78337
0.45349	-4.25965	1.66457	-0.34187	-1.56647	0.27082	-0.00210	0.58721	0.69701	0.00293	0.79407
0.46417	-4.36379	1.66715	-0.34750	-1.55599	0.28194	-0.00213	0.57676	0.69498	0.00161	0.80577
0.47508	-4.47491	1.67069	-0.35275	-1.54508	0.29456	-0.00217	0.56460	0.69346	0.00027	0.81767
0.48626	-4.58815	1.67543	-0.35773	-1.53485	0.30920	-0.00222	0.55336	0.69195	-0.00097	0.82901
0.49771	-4.69701	1.68124	-0.36264	-1.52644	0.32538	-0.00227	0.54577	0.68988	-0.00198	0.83903
0.50942	-4.79720	1.68780	-0.36760	-1.52028	0.34209	-0.00233	0.54359	0.68679	-0.00268	0.84730
0.52140	-4.88771	1.69477	-0.37264	-1.51619	0.35862	-0.00238	0.54712	0.68252	-0.00304	0.85368
0.53367	-4.96995	1.70187	-0.37771	-1.51368	0.37484	-0.00242	0.55543	0.67727	-0.00311	0.85831
0.54624	-5.04605	1.70891	-0.38269	-1.51222	0.39077	-0.00246	0.56699	0.67144	-0.00295	0.86162
0.55910	-5.11650	1.71595	-0.38744	-1.51184	0.40656	-0.00249	0.58138	0.66516	-0.00268	0.86423
0.57225	-5.18118	1.72322	-0.39188	-1.51283	0.42205	-0.00252	0.59888	0.65844	-0.00238	0.86658
0.58569	-5.24086	1.73078	-0.39598	-1.51503	0.43642	-0.00254	0.61901	0.65146	-0.00211	0.86892
0.59948	-5.29740	1.73852	-0.39984	-1.51795	0.44906	-0.00255	0.64064	0.64451	-0.00189	0.87141
0.61357	-5.35252	1.74626	-0.40351	-1.52095	0.45950	-0.00255	0.66224	0.63795	-0.00172	0.87405
0.62802	-5.40876	1.75400	-0.40706	-1.52347	0.46736	-0.00255	0.68269	0.63193	-0.00156	0.87670
0.64280	-5.46865	1.76166	-0.41049	-1.52482	0.47234	-0.00255	0.70063	0.62661	-0.00137	0.87911
0.65794	-5.53375	1.76919	-0.41390	-1.52466	0.47459	-0.00254	0.71515	0.62207	-0.00110	0.88103
0.67340	-5.60569	1.77646	-0.41730	-1.52259	0.47433	-0.00253	0.72455	0.61852	-0.00069	0.88212
0.68927	-5.68643	1.78340	-0.42073	-1.51827	0.47183	-0.00251	0.72741	0.61613	-0.00009	0.88205
0.70547	-5.77671	1.78986	-0.42415	-1.51149	0.46726	-0.00250	0.72296	0.61493	0.00074	0.88042
0.72207	-5.87859	1.79579	-0.42750	-1.50190	0.46059	-0.00249	0.71090	0.61489	0.00180	0.87687
0.73910	-5.99172	1.80121	-0.43078	-1.48958	0.45209	-0.00249	0.69230	0.61577	0.00309	0.87117
0.75649	-6.11344	1.80614	-0.43399	-1.47510	0.44230	-0.00248	0.66937	0.61726	0.00460	0.86316
0.77429	-6.24128	1.81065	-0.43721	-1.45905	0.43177	-0.00247	0.64423	0.61905	0.00630	0.85282
0.79246	-6.37254	1.81473	-0.44045	-1.44190	0.42075	-0.00247	0.61848	0.62093	0.00815	0.84038
0.81116	-6.50589	1.81854	-0.44376	-1.42420	0.40970	-0.00247	0.59362	0.62260	0.01011	0.82623
0.83022	-6.63807	1.82232	-0.44708	-1.40683	0.39923	-0.00247	0.57123	0.62377	0.01209	0.81120
0.84976	-6.76938	1.82643	-0.45038	-1.39012	0.38944	-0.00247	0.55178	0.62430	0.01405	0.79587
0.86972	-6.89941	1.83110	-0.45359	-1.37448	0.38052	-0.00248	0.53540	0.62415	0.01592	0.78110
0.89023	-7.03058	1.83644	-0.45666	-1.35962	0.37210	-0.00249	0.52093	0.62356	0.01765	0.76769
0.91116	-7.16366	1.84234	-0.45951	-1.34530	0.36386	-0.00249	0.50711	0.62283	0.01917	0.75655
0.93257	-7.30098	1.84867	-0.46216	-1.33098	0.35509	-0.00250	0.49242	0.62232	0.02045	0.74796
0.95456	-7.44397	1.85533	-0.46462	-1.31636	0.34545	-0.00250	0.47620	0.62217	0.02149	0.74200
0.97704	-7.59225	1.86221	-0.46689	-1.30138	0.33491	-0.00250	0.45857	0.62234	0.02228	0.73875
1.00000	-7.74444	1.86923	-0.46901	-1.28627	0.32401	-0.00250	0.44071	0.62244	0.02279	0.73822
1.02354	-7.89959	1.87641	-0.47100	-1.27129	0.31333	-0.00250	0.42396	0.62194	0.02302	0.74028
1.04767	-8.05563	1.88373	-0.47287	-1.25689	0.30335	-0.00251	0.40980	0.62032	0.02299	0.74460
1.07227	-8.20980	1.89115	-0.47462	-1.24354	0.29449	-0.00251	0.39949	0.61712	0.02275	0.75065
1.09745	-8.36126	1.89871	-0.47624	-1.23154	0.28723	-0.00251	0.39370	0.61207	0.02235	0.75797
1.12334	-8.50972	1.90648	-0.47773	-1.22112	0.28197	-0.00252	0.39289	0.60500	0.02185	0.76610
1.14982	-8.65310	1.91446	-0.47910	-1.21266	0.27922	-0.00253	0.39783	0.59578	0.02134	0.77438
1.17675	-8.78983	1.92269	-0.48035	-1.20650	0.27944	-0.00254	0.40918	0.58440	0.02090	0.78212
1.20453	-8.92131	1.93141	-0.48148	-1.20281	0.28284	-0.00255	0.42813	0.57065	0.02056	0.78892
1.23289	-9.04610	1.94058	-0.48245	-1.20168	0.28944	-0.00257	0.45559	0.55474	0.02035	0.79442
1.26183	-9.16432	1.95023	-0.48324	-1.20297	0.29914	-0.00259	0.49272	0.53685	0.02028	0.79846
1.29149	-9.27736	1.96040	-0.48379	-1.20644	0.31193	-0.00261	0.54085	0.51719	0.02036	0.80094
1.32188	-9.38651	1.97100	-0.48406	-1.21161	0.32744	-0.00263	0.60075	0.49621	0.02060	0.80193
1.35300	-9.49295	1.98191	-0.48399	-1.21794	0.34517	-0.00266	0.67305	0.47434	0.02097	0.80180
1.38485	-9.59698	1.99297	-0.48351	-1.22517	0.36490	-0.00269	0.75881	0.45193	0.02144	0.80101
1.41743	-9.69936	2.00408	-0.48261	-1.23293	0.38625	-0.00273	0.85839	0.42940	0.02197	0.79987
1.45075	-9.79986	2.01509	-0.48125	-1.24110	0.40907	-0.00276	0.97274	0.40695	0.02257	0.79854
1.48500	-9.89959	2.02596	-0.47945	-1.24950	0.43301	-0.00280	1.10289	0.38470	0.02323	0.79705
1.51999	-9.99910	2.03663	-0.47721	-1.25778	0.45706	-0.00284	1.24722	0.36308	0.02395	0.79537
1.55569	-10.09960	2.04714	-0.47452	-1.26568	0.48044	-0.00288	1.40390	0.34236	0.02471	0.79357
1.59236	-10.20295	2.05759	-0.47139	-1.27298	0.50279	-0.00291	1.57141	0.32261	0.02549	0.79183
1.62973	-10.30833	2.06799	-0.46787	-1.27971	0.52406	-0.00294	1.74713	0.30405	0.02622	0.79048
1.66806	-10.41698	2.07846	-0.46398	-1.28575	0.54428	-0.00297	1.92965	0.28664	0.02687	0.78987
1.70736	-10.52888	2.08904	-0.45974	-1.29109	0.56351	-0.00299	2.11705	0.27039	0.02738	0.79031
1.74764	-10.64403	2.09977	-0.45520	-1.29574	0.58177	-0.00302	2.30709	0.25532	0.02774	0.79196
1.78859	-10.76134	2.11059	-0.45043	-1.29969	0.59895	-0.00304	2.49590	0.24155	0.02794	0.79483
1.83083	-10.88311	2.12163	-0.44541	-1.30283	0.61514	-0.00306	2.68248	0.22888	0.02800	0.79893
1.87371	-11.00727	2.13267	-0.44026	-1.30510	0.63002	-0.00308	2.86130	0.21747	0.02793	0.80407
1.91791	-11.13473	2.14386	-0.43494	-1.30675	0.64406	-0.00310	3.03441	0.20705	0.02776	0.81014
1.96309	-11.26418	2.15504	-0.42953	-1.30777	0.65720	-0.00312	3.19817	0.19770	0.02752	0.81684

2.00924	-11.39518	2.16616	-0.42407	-1.30816	0.66948	-0.00314	3.35065	0.18935	0.02722	0.82396
2.05634	-11.52739	2.17715	-0.41859	-1.30796	0.68090	-0.00316	3.49027	0.18196	0.02689	0.83128
2.10482	-11.66158	2.18810	-0.41308	-1.30723	0.69160	-0.00317	3.61712	0.17543	0.02653	0.83862
2.15424	-11.79639	2.19891	-0.40759	-1.30601	0.70150	-0.00319	3.72909	0.16978	0.02616	0.84567
2.20507	-11.93298	2.20970	-0.40210	-1.30433	0.71072	-0.00321	3.82643	0.16492	0.02579	0.85231
2.25683	-12.06982	2.22041	-0.39665	-1.30229	0.71925	-0.00322	3.90828	0.16084	0.02542	0.85853
2.31000	-12.20866	2.23116	-0.39120	-1.29981	0.72712	-0.00323	3.97446	0.15747	0.02504	0.86448
2.36463	-12.34918	2.24202	-0.38575	-1.29702	0.73441	-0.00325	4.02571	0.15477	0.02465	0.87025
2.42014	-12.48982	2.25292	-0.38035	-1.29403	0.74113	-0.00326	4.06250	0.15272	0.02423	0.87592
2.47709	-12.63175	2.26398	-0.37493	-1.29087	0.74738	-0.00327	4.08637	0.15126	0.02380	0.88170
2.53550	-12.77496	2.27524	-0.36949	-1.28759	0.75321	-0.00328	4.09809	0.15033	0.02333	0.88778
2.59471	-12.91733	2.28659	-0.36410	-1.28436	0.75872	-0.00329	4.09987	0.14989	0.02282	0.89423
2.65604	-13.06177	2.29822	-0.35861	-1.28110	0.76401	-0.00330	4.09286	0.14987	0.02227	0.90127
2.71887	-13.20652	2.31004	-0.35313	-1.27792	0.76909	-0.00330	4.07817	0.15023	0.02168	0.90885
2.78242	-13.34960	2.32187	-0.34769	-1.27487	0.77392	-0.00331	4.05719	0.15094	0.02107	0.91692
2.84819	-13.49365	2.33389	-0.34217	-1.27195	0.77867	-0.00332	4.03115	0.15196	0.02043	0.92570
2.91545	-13.63746	2.34607	-0.33669	-1.26916	0.78328	-0.00332	4.00028	0.15325	0.01977	0.93512
2.98329	-13.77813	2.35799	-0.33126	-1.26656	0.78767	-0.00332	3.96657	0.15474	0.01911	0.94492
3.05344	-13.91962	2.37014	-0.32583	-1.26409	0.79205	-0.00333	3.92949	0.15644	0.01845	0.95511
3.12598	-14.06122	2.38228	-0.32033	-1.26177	0.79637	-0.00333	3.89004	0.15834	0.01778	0.96547
3.19898	-14.19923	2.39422	-0.31499	-1.25967	0.80058	-0.00333	3.85000	0.16033	0.01715	0.97541
3.27439	-14.33714	2.40613	-0.30958	-1.25774	0.80477	-0.00333	3.80894	0.16246	0.01652	0.98493
3.35121	-14.47280	2.41791	-0.30426	-1.25603	0.80895	-0.00333	3.76846	0.16462	0.01593	0.99369
3.43053	-14.60819	2.42964	-0.29886	-1.25448	0.81311	-0.00334	3.72776	0.16689	0.01535	1.00207
3.51124	-14.74119	2.44124	-0.29359	-1.25315	0.81728	-0.00333	3.68811	0.16916	0.01480	1.01018
3.59324	-14.87131	2.45246	-0.28830	-1.25201	0.82137	-0.00333	3.64964	0.17146	0.01426	1.01838
3.67782	-15.00182	2.46396	-0.28308	-1.25106	0.82556	-0.00333	3.61150	0.17379	0.01373	1.02709
3.76506	-15.13016	2.47490	-0.27775	-1.25027	0.82967	-0.00333	3.57476	0.17615	0.01319	1.03676
3.85356	-15.25856	2.48636	-0.27258	-1.24967	0.83387	-0.00333	3.53828	0.17851	0.01268	1.04707
3.94477	-15.38315	2.49688	-0.26732	-1.24921	0.83793	-0.00333	3.50452	0.18083	0.01216	1.05806
4.03714	-15.50873	2.50809	-0.26216	-1.24893	0.84208	-0.00332	3.47038	0.18318	0.01167	1.06922
4.13223	-15.63125	2.51866	-0.25703	-1.24878	0.84615	-0.00332	3.43898	0.18544	0.01120	1.08047
4.23012	-15.75374	2.52916	-0.25177	-1.24875	0.85017	-0.00332	3.40799	0.18774	0.01072	1.09153
4.32900	-15.87670	2.54036	-0.24675	-1.24886	0.85428	-0.00331	3.37770	0.18997	0.01029	1.10172
4.43066	-15.99336	2.54992	-0.24160	-1.24903	0.85810	-0.00331	3.35110	0.19208	0.00986	1.11139
4.53515	-16.11559	2.56091	-0.23644	-1.24934	0.86211	-0.00330	3.32280	0.19428	0.00944	1.12038
4.64253	-16.23571	2.57158	-0.23142	-1.24972	0.86606	-0.00329	3.29704	0.19634	0.00904	1.12875
4.75059	-16.34827	2.58060	-0.22628	-1.25015	0.86964	-0.00329	3.27433	0.19830	0.00863	1.13654
4.86145	-16.46926	2.59186	-0.22124	-1.25072	0.87354	-0.00328	3.24934	0.20033	0.00825	1.14371
4.97760	-16.58669	2.60202	-0.21623	-1.25132	0.87731	-0.00328	3.22776	0.20220	0.00787	1.15059
5.09424	-16.69681	2.61061	-0.21107	-1.25194	0.88069	-0.00327	3.20864	0.20399	0.00747	1.15709
5.21376	-16.81771	2.62202	-0.20602	-1.25272	0.88448	-0.00326	3.18679	0.20587	0.00711	1.16311
5.33618	-16.93178	2.63199	-0.20120	-1.25349	0.88805	-0.00325	3.16895	0.20751	0.00675	1.16887
5.46150	-17.03658	2.63953	-0.19613	-1.25425	0.89114	-0.00325	3.15427	0.20905	0.00635	1.17470
5.58971	-17.15395	2.65024	-0.19106	-1.25516	0.89467	-0.00324	3.13628	0.21073	0.00598	1.18034
5.72082	-17.27155	2.66139	-0.18634	-1.25611	0.89828	-0.00323	3.12005	0.21224	0.00565	1.18588
5.85823	-17.37262	2.66798	-0.18140	-1.25698	0.90116	-0.00322	3.10945	0.21354	0.00527	1.19203
5.99520	-17.47962	2.67640	-0.17636	-1.25795	0.90420	-0.00321	3.09683	0.21494	0.00489	1.19816
6.13497	-17.60010	2.68844	-0.17155	-1.25907	0.90777	-0.00320	3.08194	0.21636	0.00457	1.20414
6.28141	-17.70615	2.69681	-0.16700	-1.26009	0.91083	-0.00319	3.07251	0.21750	0.00424	1.21049
6.42674	-17.79565	2.70147	-0.16230	-1.26100	0.91318	-0.00319	3.06623	0.21852	0.00387	1.21713
6.57895	-17.90377	2.71024	-0.15733	-1.26213	0.91614	-0.00318	3.05630	0.21972	0.00352	1.22391
6.73401	-18.02544	2.72269	-0.15264	-1.26342	0.91965	-0.00316	3.04488	0.22091	0.00324	1.23047
6.89180	-18.12024	2.72901	-0.14847	-1.26444	0.92223	-0.00316	3.03996	0.22174	0.00294	1.23729
7.05716	-18.20185	2.73153	-0.14396	-1.26538	0.92419	-0.00315	3.03741	0.22253	0.00258	1.24468
7.22022	-18.29801	2.73816	-0.13937	-1.26651	0.92666	-0.00314	3.03177	0.22344	0.00226	1.25159
7.39098	-18.41655	2.74996	-0.13470	-1.26790	0.92993	-0.00313	3.02337	0.22445	0.00199	1.25815
7.56430	-18.51676	2.75792	-0.13081	-1.26904	0.93261	-0.00312	3.01921	0.22515	0.00176	1.26433
7.73994	-18.57674	2.75640	-0.12723	-1.26983	0.93387	-0.00311	3.02128	0.22559	0.00144	1.27064
7.92393	-18.65253	2.75813	-0.12314	-1.27081	0.93558	-0.00310	3.02081	0.22618	0.00112	1.27664
8.11030	-18.74478	2.76395	-0.11887	-1.27201	0.93784	-0.00309	3.01772	0.22689	0.00084	1.28198
8.29876	-18.85964	2.77544	-0.11455	-1.27343	0.94085	-0.00308	3.01165	0.22769	0.00063	1.28652
8.49618	-18.93643	2.77811	-0.11140	-1.27439	0.94266	-0.00307	3.01245	0.22808	0.00041	1.29105
8.69565	-18.96730	2.77027	-0.10894	-1.27487	0.94297	-0.00307	3.01986	0.22810	0.00012	1.29590
8.90472	-19.02141	2.76738	-0.10585	-1.27565	0.94399	-0.00306	3.02410	0.22830	-0.00017	1.30061
9.11577	-19.08385	2.76670	-0.10266	-1.27653	0.94527	-0.00306	3.02694	0.22856	-0.00043	1.30514
9.32836	-19.18009	2.77390	-0.09863	-1.27783	0.94755	-0.00305	3.02375	0.22920	-0.00066	1.30942
9.54198	-19.26409	2.77899	-0.09555	-1.27892	0.94949	-0.00304	3.02302	0.22961	-0.00083	1.31361
9.76563	-19.26633	2.76568	-0.09515	-1.27893	0.94906	-0.00303	3.03685	0.22899	-0.00103	1.31868
10.00000	-19.26096	2.75045	-0.09495	-1.27888	0.94849	-0.00303	3.05378	0.22815	-0.00123	1.32451

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
High stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 152 - 305 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	1.50316	2.40283	-0.26175	-3.25409	1.02005	0.00004	13.11382	0.24548	0.00938	0.34246
PGV	14.32507	1.94159	-0.19936	-4.71050	1.07853	0.00170	28.55700	0.22102	-0.00586	0.44298
PGA	7.67639	1.66837	-0.09811	-3.74900	0.42897	0.00060	11.71482	0.41506	-0.02762	0.77937
0.01000	7.53142	1.67873	-0.09549	-3.71827	0.39674	0.00058	11.51789	0.42206	-0.01591	0.74584
0.01024	7.53819	1.67904	-0.09524	-3.71912	0.39565	0.00058	11.52165	0.42224	-0.01595	0.74638
0.01048	7.54947	1.67935	-0.09499	-3.72076	0.39470	0.00058	11.53313	0.42234	-0.01600	0.74690
0.01072	7.56520	1.67965	-0.09473	-3.72315	0.39389	0.00058	11.55214	0.42236	-0.01605	0.74740
0.01097	7.58545	1.67995	-0.09446	-3.72632	0.39318	0.00059	11.57876	0.42231	-0.01611	0.74789
0.01123	7.61039	1.68026	-0.09419	-3.73028	0.39258	0.00059	11.61317	0.42218	-0.01617	0.74836
0.01150	7.64025	1.68057	-0.09391	-3.73508	0.39207	0.00060	11.65576	0.42197	-0.01624	0.74883
0.01177	7.67545	1.68090	-0.09361	-3.74078	0.39164	0.00060	11.70716	0.42169	-0.01631	0.74931
0.01205	7.71649	1.68125	-0.09329	-3.74747	0.39130	0.00061	11.76825	0.42133	-0.01640	0.74980
0.01233	7.76403	1.68162	-0.09295	-3.75525	0.39102	0.00062	11.84008	0.42088	-0.01649	0.75031
0.01262	7.81865	1.68202	-0.09259	-3.76422	0.39080	0.00062	11.92367	0.42034	-0.01660	0.75086
0.01292	7.88075	1.68245	-0.09221	-3.77443	0.39063	0.00063	12.01970	0.41970	-0.01671	0.75147
0.01322	7.95085	1.68292	-0.09179	-3.78597	0.39051	0.00065	12.12907	0.41897	-0.01684	0.75215
0.01353	8.03018	1.68343	-0.09133	-3.79905	0.39042	0.00066	12.25390	0.41813	-0.01699	0.75291
0.01385	8.12025	1.68398	-0.09084	-3.81389	0.39037	0.00067	12.39689	0.41716	-0.01715	0.75379
0.01417	8.22244	1.68458	-0.09029	-3.83073	0.39037	0.00069	12.56067	0.41606	-0.01734	0.75483
0.01451	8.33839	1.68523	-0.08968	-3.84983	0.39042	0.00071	12.74826	0.41480	-0.01755	0.75605
0.01485	8.46850	1.68595	-0.08900	-3.87125	0.39052	0.00073	12.96026	0.41340	-0.01779	0.75747
0.01520	8.61049	1.68676	-0.08826	-3.89457	0.39065	0.00075	13.19273	0.41190	-0.01804	0.75910
0.01556	8.76626	1.68767	-0.08744	-3.92011	0.39077	0.00077	13.44949	0.41029	-0.01833	0.76095
0.01592	8.94206	1.68872	-0.08654	-3.94892	0.39089	0.00080	13.74241	0.40850	-0.01863	0.76304
0.01630	9.14013	1.68992	-0.08555	-3.98136	0.39099	0.00083	14.07602	0.40651	-0.01898	0.76547
0.01668	9.35894	1.69128	-0.08446	-4.01714	0.39098	0.00086	14.44781	0.40437	-0.01937	0.76828
0.01707	9.58840	1.69276	-0.08325	-4.05445	0.39076	0.00089	14.84044	0.40223	-0.01980	0.77136
0.01748	9.81909	1.69425	-0.08193	-4.09156	0.39042	0.00092	15.23786	0.40020	-0.02025	0.77465
0.01789	10.05269	1.69567	-0.08049	-4.12865	0.39007	0.00095	15.64453	0.39824	-0.02072	0.77822
0.01831	10.28365	1.69707	-0.07890	-4.16482	0.38970	0.00098	16.04995	0.39643	-0.02122	0.78193
0.01874	10.50476	1.69861	-0.07716	-4.19901	0.38928	0.00100	16.43762	0.39488	-0.02172	0.78571
0.01918	10.71998	1.70033	-0.07533	-4.23205	0.38866	0.00102	16.81256	0.39355	-0.02224	0.78970
0.01963	10.93052	1.70223	-0.07346	-4.26416	0.38747	0.00104	17.17586	0.39242	-0.02280	0.79393
0.02009	11.13790	1.70437	-0.07153	-4.29553	0.38597	0.00105	17.53409	0.39145	-0.02337	0.79824
0.02057	11.33076	1.70673	-0.06951	-4.32417	0.38425	0.00106	17.86714	0.39075	-0.02388	0.80216
0.02105	11.48153	1.70909	-0.06741	-4.34534	0.38185	0.00107	18.11693	0.39065	-0.02429	0.80548
0.02154	11.57588	1.71117	-0.06530	-4.35657	0.37813	0.00106	18.25301	0.39129	-0.02471	0.80886
0.02205	11.61823	1.71281	-0.06325	-4.35855	0.37279	0.00105	18.28547	0.39259	-0.02523	0.81286
0.02257	11.61964	1.71406	-0.06124	-4.35323	0.36685	0.00103	18.24076	0.39435	-0.02579	0.81720
0.02310	11.58677	1.71566	-0.05920	-4.34218	0.36102	0.00100	18.12907	0.39656	-0.02632	0.82143
0.02364	11.53059	1.71817	-0.05708	-4.32778	0.35508	0.00097	17.96451	0.39922	-0.02675	0.82501
0.02420	11.46629	1.72148	-0.05502	-4.31282	0.34852	0.00094	17.77349	0.40212	-0.02698	0.82715
0.02477	11.39760	1.72505	-0.05303	-4.29757	0.34143	0.00091	17.56773	0.40515	-0.02700	0.82790
0.02535	11.33298	1.72908	-0.05105	-4.28359	0.33435	0.00088	17.36196	0.40824	-0.02692	0.82786
0.02595	11.26514	1.73372	-0.04913	-4.26990	0.32654	0.00086	17.13464	0.41154	-0.02682	0.82761
0.02656	11.14385	1.73801	-0.04724	-4.24742	0.31758	0.00083	16.79551	0.41558	-0.02667	0.82706
0.02719	10.92760	1.74099	-0.04524	-4.20838	0.30870	0.00079	16.28509	0.42069	-0.02648	0.82634
0.02783	10.67060	1.74353	-0.04319	-4.16224	0.30111	0.00074	15.71764	0.42623	-0.02630	0.82582
0.02848	10.40825	1.74652	-0.04118	-4.11526	0.29355	0.00068	15.15712	0.43194	-0.02616	0.82553
0.02915	10.12726	1.74935	-0.03917	-4.06460	0.28469	0.00062	14.57995	0.43804	-0.02610	0.82584
0.02984	9.82201	1.75181	-0.03709	-4.00942	0.27588	0.00056	13.97528	0.44456	-0.02617	0.82703
0.03054	9.49733	1.75470	-0.03494	-3.95141	0.26815	0.00049	13.34560	0.45155	-0.02637	0.82916
0.03126	9.20006	1.75857	-0.03289	-3.89889	0.26187	0.00042	12.77385	0.45833	-0.02660	0.83159
0.03199	8.94670	1.76329	-0.03093	-3.85439	0.25747	0.00035	12.29230	0.46452	-0.02662	0.83279
0.03275	8.67369	1.76836	-0.02879	-3.80682	0.25302	0.00028	11.78996	0.47114	-0.02634	0.83205
0.03352	8.32520	1.77338	-0.02632	-3.74678	0.24597	0.00020	11.16904	0.47931	-0.02589	0.83011
0.03430	7.91485	1.77851	-0.02366	-3.67692	0.23565	0.00013	10.45212	0.48906	-0.02543	0.82817
0.03511	7.51380	1.78318	-0.02116	-3.60876	0.22386	0.00006	9.76386	0.49904	-0.02516	0.82760
0.03594	7.16004	1.78630	-0.01907	-3.54774	0.21260	0.00000	9.17111	0.50817	-0.02514	0.82872
0.03678	6.84426	1.78793	-0.01740	-3.49218	0.20181	-0.00005	8.65879	0.51649	-0.02512	0.82976
0.03765	6.56563	1.78977	-0.01592	-3.44321	0.19263	-0.00009	8.22097	0.52404	-0.02476	0.82842
0.03854	6.32087	1.79261	-0.01447	-3.40104	0.18601	-0.00014	7.84353	0.53096	-0.02405	0.82462
0.03944	6.07742	1.79568	-0.01304	-3.35920	0.17891	-0.00018	7.47292	0.53816	-0.02315	0.81969
0.04037	5.82114	1.79858	-0.01170	-3.31470	0.16943	-0.00022	7.09067	0.54608	-0.02225	0.81467
0.04132	5.53869	1.80160	-0.01032	-3.26572	0.15856	-0.00026	6.68571	0.55490	-0.02143	0.80999
0.04229	5.23474	1.80477	-0.00888	-3.21312	0.14724	-0.00030	6.26917	0.56449	-0.02076	0.80636
0.04329	4.92926	1.80812	-0.00739	-3.16041	0.13722	-0.00035	5.87068	0.57423	-0.02028	0.80411
0.04431	4.62371	1.81106	-0.00571	-3.10768	0.13023	-0.00040	5.49464	0.58382	-0.01991	0.80258
0.04535	4.31580	1.81289	-0.00393	-3.05377	0.12414	-0.00045	5.13310	0.59349	-0.01964	0.80172

0.04642	4.04376	1.81390	-0.00249	-3.00530	0.11799	-0.00050	4.81943	0.60249	-0.01957	0.80225
0.04751	3.84625	1.81334	-0.00181	-2.96861	0.11209	-0.00053	4.58562	0.60963	-0.01979	0.80452
0.04863	3.69939	1.81082	-0.00177	-2.93942	0.10589	-0.00054	4.40380	0.61535	-0.02023	0.80795
0.04977	3.57779	1.80824	-0.00222	-2.91472	0.09943	-0.00054	4.25164	0.62035	-0.02071	0.81154
0.05094	3.47553	1.80727	-0.00302	-2.89459	0.09355	-0.00055	4.12815	0.62468	-0.02105	0.81418
0.05214	3.38855	1.80817	-0.00412	-2.87880	0.08949	-0.00055	4.02781	0.62841	-0.02105	0.81470
0.05337	3.28293	1.81014	-0.00521	-2.86113	0.08669	-0.00057	3.91498	0.63254	-0.02069	0.81282
0.05462	3.10912	1.81114	-0.00588	-2.83103	0.08216	-0.00059	3.74341	0.63870	-0.02020	0.81001
0.05591	2.87228	1.80924	-0.00636	-2.78758	0.07199	-0.00061	3.51427	0.64718	-0.01983	0.80795
0.05722	2.61068	1.80436	-0.00688	-2.73747	0.05600	-0.00063	3.26140	0.65717	-0.01959	0.80680
0.05857	2.35397	1.79746	-0.00750	-2.68659	0.03726	-0.00063	3.01573	0.66760	-0.01937	0.80593
0.05995	2.13046	1.79070	-0.00848	-2.64152	0.02013	-0.00062	2.80565	0.67723	-0.01893	0.80387
0.06136	1.94440	1.78500	-0.00994	-2.60400	0.00471	-0.00062	2.63124	0.68583	-0.01827	0.80054
0.06280	1.76705	1.78050	-0.01140	-2.56929	-0.00838	-0.00061	2.47313	0.69401	-0.01771	0.79799
0.06428	1.61163	1.77839	-0.01289	-2.54048	-0.01837	-0.00062	2.34041	0.70130	-0.01738	0.79712
0.06579	1.48268	1.77766	-0.01480	-2.51732	-0.02994	-0.00061	2.22583	0.70827	-0.01720	0.79760
0.06734	1.35803	1.77556	-0.01695	-2.49348	-0.04492	-0.00059	2.11283	0.71565	-0.01703	0.79826
0.06893	1.24902	1.77227	-0.01889	-2.47118	-0.05694	-0.00057	2.01926	0.72187	-0.01676	0.79801
0.07055	1.15869	1.76981	-0.02015	-2.45305	-0.05866	-0.00058	1.95577	0.72566	-0.01629	0.79604
0.07221	1.06287	1.76682	-0.02109	-2.43394	-0.05448	-0.00062	1.89823	0.72859	-0.01560	0.79201
0.07391	0.95275	1.76156	-0.02254	-2.41035	-0.05441	-0.00064	1.82746	0.73255	-0.01484	0.78718
0.07565	0.83088	1.75475	-0.02453	-2.38298	-0.05889	-0.00065	1.74606	0.73767	-0.01437	0.78424
0.07743	0.71504	1.74837	-0.02662	-2.35657	-0.06271	-0.00066	1.67250	0.74255	-0.01422	0.78336
0.07925	0.64192	1.74413	-0.02897	-2.33907	-0.06592	-0.00067	1.62686	0.74572	-0.01404	0.78232
0.08111	0.59958	1.74240	-0.03172	-2.32899	-0.07086	-0.00066	1.59795	0.74803	-0.01379	0.78082
0.08302	0.57030	1.74200	-0.03475	-2.32254	-0.07491	-0.00066	1.57740	0.74973	-0.01364	0.78017
0.08498	0.54171	1.74254	-0.03730	-2.31744	-0.07248	-0.00067	1.56575	0.75027	-0.01353	0.77986
0.08697	0.49989	1.74319	-0.03925	-2.31058	-0.06468	-0.00070	1.55425	0.75032	-0.01341	0.77946
0.08902	0.41548	1.74182	-0.04120	-2.29472	-0.06025	-0.00073	1.51624	0.75258	-0.01324	0.77882
0.09112	0.31231	1.73698	-0.04414	-2.27267	-0.06244	-0.00074	1.46008	0.75653	-0.01280	0.77697
0.09326	0.20624	1.73079	-0.04774	-2.24891	-0.06688	-0.00075	1.40128	0.76085	-0.01218	0.77449
0.09545	0.13195	1.72523	-0.05143	-2.23185	-0.06638	-0.00076	1.36407	0.76289	-0.01156	0.77249
0.09770	0.07155	1.72035	-0.05467	-2.21826	-0.06320	-0.00078	1.33611	0.76392	-0.01103	0.77118
0.10000	-0.01055	1.71498	-0.05759	-2.20044	-0.06328	-0.00079	1.29348	0.76666	-0.01061	0.77044
0.10235	-0.09389	1.70953	-0.06073	-2.18237	-0.06436	-0.00079	1.24831	0.76985	-0.01038	0.77064
0.10476	-0.18070	1.70710	-0.06322	-2.16617	-0.06162	-0.00081	1.20600	0.77312	-0.01042	0.77246
0.10723	-0.26072	1.70769	-0.06503	-2.15366	-0.05519	-0.00084	1.17090	0.77599	-0.01060	0.77507
0.10975	-0.34188	1.71112	-0.06643	-2.14320	-0.04798	-0.00087	1.13676	0.77930	-0.01065	0.77658
0.11233	-0.44083	1.71585	-0.06779	-2.13077	-0.04403	-0.00089	1.09172	0.78441	-0.01050	0.77656
0.11498	-0.59844	1.71849	-0.06908	-2.10624	-0.04951	-0.00091	1.01457	0.79410	-0.01024	0.77582
0.11768	-0.81792	1.71574	-0.07055	-2.06605	-0.06460	-0.00090	0.90860	0.80852	-0.00992	0.77480
0.12045	-1.04291	1.70786	-0.07289	-2.02024	-0.08307	-0.00089	0.80495	0.82389	-0.00968	0.77447
0.12328	-1.24820	1.69949	-0.07572	-1.97726	-0.10129	-0.00087	0.71661	0.83857	-0.00962	0.77527
0.12619	-1.41836	1.69334	-0.07855	-1.94271	-0.11768	-0.00085	0.64737	0.85141	-0.00963	0.77632
0.12916	-1.54247	1.68833	-0.08147	-1.91801	-0.13011	-0.00083	0.59782	0.86104	-0.00966	0.77728
0.13219	-1.61525	1.68260	-0.08491	-1.90259	-0.13599	-0.00081	0.56810	0.86608	-0.00970	0.77819
0.13531	-1.64134	1.67661	-0.08906	-1.89566	-0.13405	-0.00079	0.55763	0.86603	-0.00963	0.77842
0.13849	-1.64815	1.67174	-0.09347	-1.89299	-0.12562	-0.00080	0.55881	0.86291	-0.00924	0.77676
0.14175	-1.65478	1.66701	-0.09766	-1.89014	-0.11193	-0.00082	0.56443	0.85848	-0.00855	0.77312
0.14508	-1.68935	1.66177	-0.10104	-1.88130	-0.09609	-0.00086	0.56386	0.85543	-0.00770	0.76796
0.14850	-1.75533	1.65644	-0.10366	-1.86605	-0.08175	-0.00092	0.55392	0.85484	-0.00689	0.76259
0.15199	-1.82103	1.65278	-0.10619	-1.85165	-0.07003	-0.00096	0.54391	0.85487	-0.00627	0.75831
0.15557	-1.85512	1.65157	-0.10940	-1.84475	-0.06123	-0.00100	0.54327	0.85324	-0.00586	0.75555
0.15923	-1.85129	1.65185	-0.11360	-1.84604	-0.05473	-0.00102	0.55458	0.84901	-0.00582	0.75566
0.16298	-1.84048	1.65260	-0.11823	-1.84909	-0.04750	-0.00103	0.57061	0.84363	-0.00630	0.75932
0.16681	-1.85201	1.65266	-0.12287	-1.84778	-0.03756	-0.00107	0.58149	0.83913	-0.00693	0.76391
0.17074	-1.89513	1.65194	-0.12734	-1.84057	-0.02811	-0.00110	0.58014	0.83726	-0.00706	0.76508
0.17475	-1.95802	1.65042	-0.13166	-1.82975	-0.02283	-0.00113	0.56760	0.83799	-0.00629	0.76039
0.17887	-2.02190	1.64818	-0.13583	-1.81866	-0.02048	-0.00114	0.55195	0.83943	-0.00502	0.75259
0.18307	-2.07330	1.64547	-0.14003	-1.80937	-0.01791	-0.00115	0.54089	0.83967	-0.00412	0.74754
0.18738	-2.11270	1.64254	-0.14451	-1.80153	-0.01444	-0.00116	0.53576	0.83845	-0.00404	0.74815
0.19179	-2.13034	1.63961	-0.14978	-1.79726	-0.00969	-0.00117	0.53948	0.83502	-0.00452	0.75273
0.19631	-2.13096	1.63793	-0.15565	-1.79709	-0.00332	-0.00118	0.55054	0.82996	-0.00501	0.75772
0.20092	-2.11144	1.63753	-0.16192	-1.80186	0.00460	-0.00118	0.56946	0.82325	-0.00523	0.76120
0.20565	-2.07041	1.63801	-0.16830	-1.81160	0.01384	-0.00117	0.59690	0.81490	-0.00511	0.76249
0.21049	-2.01471	1.63944	-0.17445	-1.82527	0.02415	-0.00116	0.63134	0.80547	-0.00476	0.76194
0.21544	-1.95918	1.64224	-0.18027	-1.84060	0.03390	-0.00114	0.66770	0.79623	-0.00435	0.76075
0.22051	-1.91010	1.64634	-0.18606	-1.85626	0.04165	-0.00112	0.70383	0.78763	-0.00392	0.75943
0.22570	-1.87028	1.65102	-0.19179	-1.87074	0.04906	-0.00111	0.73985	0.77942	-0.00351	0.75846
0.23101	-1.85772	1.65528	-0.19694	-1.87945	0.05832	-0.00112	0.76927	0.77246	-0.00324	0.75872
0.23645	-1.88799	1.65793	-0.20131	-1.87834	0.06820	-0.00115	0.78350	0.76796	-0.00312	0.76022
0.24201	-1.94906	1.65892	-0.20523	-1.86990	0.07839	-0.00120	0.78485	0.76539	-0.00305	0.76224
0.24771	-2.02138	1.65958	-0.20906	-1.85948	0.09161	-0.00125	0.78128	0.76337	-0.00284	0.76354
0.25354	-2.09714	1.66030	-0.21310	-1.84915	0.10774	-0.00131	0.77538	0.76148	-0.00229	0.76291
0.25950	-2.16401	1.66024	-0.21790	-1.84008	0.12325	-0.00135	0.77108	0.75914	-0.00148	0.76066
0.26561	-2.21197	1.65895	-0.22363	-1.83317	0.13516	-0.00138	0.77221	0.75591	-0.00074	0.75880
0.27186	-2.24942	1.65735	-0.22980	-1.82751	0.14307	-0.00140	0.77650	0.75236	-0.00030	0.75869
0.27826	-2.29105	1.65662	-0.23575	-1.82169	0.14934	-0.00142	0.77988	0.74918	-0.00014	0.76008
0.28480	-2.34955	1.65735	-0.24096	-1.81424	0.15691	-0.00145	0.77884	0.74677	-0.00013	0.76217
0.29150	-2.42606	1.65965	-0.24519	-1.80537	0.16852	-0.00151	0.77459	0.74473	-0.00010	0.76375
0.29836	-2.51171	1.66299	-0.24860	-1.79634	0.18500	-0.00158	0.77097	0.74230	-0.00000	0.76439

0.30539	-2.60317	1.66612	-0.25156	-1.78641	0.20258	-0.00166	0.76616	0.73989	-0.00000	0.76537
0.31257	-2.70665	1.66736	-0.25448	-1.77242	0.21382	-0.00172	0.75247	0.73901	-0.00031	0.76826
0.31993	-2.82675	1.66621	-0.25771	-1.75281	0.21343	-0.00175	0.72516	0.74079	-0.00088	0.77311
0.32745	-2.95451	1.66374	-0.26151	-1.73035	0.20225	-0.00173	0.68919	0.74464	-0.00147	0.77830
0.33517	-3.07568	1.66105	-0.26614	-1.70902	0.18464	-0.00168	0.65375	0.74889	-0.00183	0.78185
0.34304	-3.18393	1.65874	-0.27158	-1.69068	0.16576	-0.00162	0.62397	0.75231	-0.00188	0.78291
0.35112	-3.28655	1.65695	-0.27747	-1.67416	0.14968	-0.00157	0.59808	0.75497	-0.00172	0.78221
0.35938	-3.39777	1.65540	-0.28324	-1.65636	0.13762	-0.00153	0.57018	0.75807	-0.00154	0.78150
0.36784	-3.53203	1.65411	-0.28844	-1.63441	0.12856	-0.00151	0.53496	0.76301	-0.00145	0.78150
0.37649	-3.68872	1.65370	-0.29301	-1.60896	0.12186	-0.00152	0.49405	0.76990	-0.00133	0.78136
0.38536	-3.85469	1.65462	-0.29733	-1.58283	0.11674	-0.00154	0.45333	0.77769	-0.00108	0.78035
0.39442	-4.01270	1.65706	-0.30172	-1.55938	0.11353	-0.00158	0.41911	0.78471	-0.00081	0.77933
0.40370	-4.15001	1.66103	-0.30635	-1.54110	0.11419	-0.00162	0.39529	0.78927	-0.00060	0.77901
0.41321	-4.26348	1.66604	-0.31134	-1.52846	0.12026	-0.00168	0.38160	0.79076	-0.00025	0.77816
0.42292	-4.35727	1.67128	-0.31691	-1.52009	0.13080	-0.00174	0.37516	0.78964	0.00051	0.77513
0.43288	-4.43755	1.67587	-0.32318	-1.51399	0.14353	-0.00180	0.37322	0.78661	0.00174	0.76941
0.44307	-4.51082	1.67915	-0.33000	-1.50809	0.15662	-0.00186	0.37332	0.78250	0.00327	0.76207
0.45349	-4.58185	1.68112	-0.33694	-1.50144	0.16975	-0.00191	0.37407	0.77787	0.00469	0.75593
0.46417	-4.64990	1.68240	-0.34358	-1.49484	0.18339	-0.00195	0.37609	0.77262	0.00547	0.75447
0.47508	-4.71108	1.68376	-0.34979	-1.48993	0.19711	-0.00199	0.38090	0.76641	0.00534	0.75951
0.48626	-4.76412	1.68585	-0.35581	-1.48779	0.20943	-0.00201	0.38913	0.75919	0.00446	0.76969
0.49771	-4.81504	1.68881	-0.36189	-1.48746	0.21800	-0.00201	0.39889	0.75169	0.00332	0.78138
0.50942	-4.87226	1.69218	-0.36810	-1.48680	0.22168	-0.00200	0.40742	0.74468	0.00235	0.79155
0.52140	-4.94056	1.69547	-0.37429	-1.48424	0.22108	-0.00197	0.41307	0.73848	0.00170	0.79919
0.53367	-5.02208	1.69842	-0.38017	-1.47905	0.21791	-0.00194	0.41492	0.73327	0.00121	0.80555
0.54624	-5.11645	1.70119	-0.38550	-1.47133	0.21442	-0.00192	0.41282	0.72911	0.00065	0.81231
0.55910	-5.22280	1.70427	-0.39019	-1.46169	0.21246	-0.00191	0.40721	0.72595	0.00003	0.81944
0.57225	-5.33732	1.70804	-0.39437	-1.45122	0.21252	-0.00191	0.39958	0.72341	-0.00052	0.82590
0.58569	-5.45472	1.71250	-0.39828	-1.44086	0.21300	-0.00192	0.39154	0.72108	-0.00095	0.83149
0.59948	-5.57350	1.71745	-0.40215	-1.43070	0.21149	-0.00193	0.38333	0.71899	-0.00129	0.83643
0.61357	-5.69358	1.72278	-0.40611	-1.42061	0.20720	-0.00193	0.37466	0.71729	-0.00147	0.84049
0.62802	-5.81535	1.72868	-0.41023	-1.41083	0.20228	-0.00193	0.36625	0.71564	-0.00139	0.84311
0.64280	-5.93366	1.73533	-0.41449	-1.40272	0.20125	-0.00195	0.36111	0.71277	-0.00104	0.84404
0.65794	-6.04341	1.74263	-0.41891	-1.39736	0.20703	-0.00198	0.36195	0.70754	-0.00056	0.84419
0.67340	-6.14336	1.75031	-0.42342	-1.39475	0.21915	-0.00203	0.36920	0.69982	-0.00017	0.84504
0.68927	-6.23800	1.75829	-0.42794	-1.39410	0.23616	-0.00209	0.38161	0.69016	0.00008	0.84701
0.70547	-6.33401	1.76658	-0.43227	-1.39407	0.25633	-0.00216	0.39675	0.67955	0.00033	0.84902
0.72207	-6.43677	1.77542	-0.43632	-1.39395	0.27896	-0.00224	0.41331	0.66843	0.00079	0.84946
0.73910	-6.54683	1.78496	-0.44007	-1.39373	0.30335	-0.00231	0.43139	0.65685	0.00156	0.84729
0.75649	-6.66124	1.79504	-0.44362	-1.39360	0.32811	-0.00239	0.45174	0.64472	0.00260	0.84263
0.77429	-6.78085	1.80522	-0.44706	-1.39270	0.35124	-0.00247	0.47318	0.63248	0.00382	0.83594
0.79246	-6.90847	1.81502	-0.45038	-1.38971	0.37036	-0.00253	0.49249	0.62102	0.00516	0.82742
0.81116	-7.04567	1.82443	-0.45347	-1.38435	0.38497	-0.00258	0.50826	0.61061	0.00658	0.81744
0.83022	-7.18910	1.83354	-0.45620	-1.37714	0.39536	-0.00261	0.52033	0.60135	0.00798	0.80693
0.84976	-7.33754	1.84265	-0.45855	-1.36855	0.40267	-0.00264	0.52944	0.59306	0.00929	0.79654
0.86972	-7.48921	1.85193	-0.46057	-1.35891	0.40799	-0.00266	0.53586	0.58574	0.01054	0.78660
0.89023	-7.64307	1.86160	-0.46236	-1.34860	0.41251	-0.00269	0.54042	0.57924	0.01178	0.77722
0.91116	-7.79392	1.87147	-0.46404	-1.33836	0.41716	-0.00271	0.54464	0.57330	0.01297	0.76918
0.93257	-7.93762	1.88143	-0.46568	-1.32898	0.42266	-0.00273	0.55063	0.56747	0.01401	0.76319
0.95456	-8.07152	1.89149	-0.46729	-1.32111	0.42963	-0.00275	0.55998	0.56148	0.01482	0.75985
0.97704	-8.19442	1.90169	-0.46881	-1.31501	0.43820	-0.00278	0.57278	0.55540	0.01532	0.75971
1.00000	-8.30807	1.91216	-0.47023	-1.31040	0.44777	-0.00280	0.58781	0.54957	0.01547	0.76292
1.02354	-8.41556	1.92302	-0.47154	-1.30681	0.45758	-0.00282	0.60344	0.54432	0.01529	0.76917
1.04767	-8.51843	1.93427	-0.47278	-1.30393	0.46689	-0.00283	0.61869	0.53980	0.01486	0.77781
1.07227	-8.61808	1.94573	-0.47395	-1.30130	0.47486	-0.00284	0.63211	0.53621	0.01425	0.78807
1.09745	-8.71526	1.95731	-0.47513	-1.29875	0.48116	-0.00284	0.64336	0.53352	0.01353	0.79935
1.12334	-8.81039	1.96892	-0.47637	-1.29618	0.48550	-0.00283	0.65224	0.53170	0.01274	0.81124
1.14982	-8.90282	1.98043	-0.47771	-1.29362	0.48778	-0.00282	0.65874	0.53069	0.01191	0.82328
1.17675	-8.99251	1.99176	-0.47915	-1.29105	0.48810	-0.00280	0.66271	0.53045	0.01108	0.83500
1.20453	-9.08148	2.00315	-0.48069	-1.28842	0.48658	-0.00277	0.66414	0.53093	0.01028	0.84614
1.23289	-9.16965	2.01459	-0.48229	-1.28575	0.48345	-0.00274	0.66297	0.53209	0.00954	0.85616
1.26183	-9.25794	2.02612	-0.48390	-1.28301	0.47908	-0.00271	0.65913	0.53387	0.00887	0.86481
1.29149	-9.34711	2.03789	-0.48552	-1.28030	0.47374	-0.00267	0.65290	0.53617	0.00830	0.87201
1.32188	-9.43761	2.04993	-0.48710	-1.27768	0.46748	-0.00264	0.64430	0.53898	0.00787	0.87767
1.35300	-9.53084	2.06224	-0.48863	-1.27494	0.45983	-0.00259	0.63259	0.54241	0.00760	0.88173
1.38485	-9.62709	2.07479	-0.49009	-1.27210	0.45043	-0.00255	0.61787	0.54646	0.00753	0.88424
1.41743	-9.72690	2.08753	-0.49151	-1.26908	0.43891	-0.00249	0.60025	0.55110	0.00769	0.88529
1.45075	-9.82972	2.10039	-0.49290	-1.26602	0.42556	-0.00243	0.58074	0.55611	0.00807	0.88501
1.48500	-9.93497	2.11340	-0.49427	-1.26317	0.41112	-0.00237	0.56087	0.56115	0.00866	0.88361
1.51999	-10.03983	2.12640	-0.49565	-1.26099	0.39711	-0.00230	0.54307	0.56557	0.00940	0.88155
1.55569	-10.14158	2.13930	-0.49703	-1.26003	0.38532	-0.00224	0.52988	0.56864	0.01020	0.87951
1.59236	-10.23948	2.15209	-0.49841	-1.26053	0.37725	-0.00219	0.52282	0.56976	0.01097	0.87819
1.62973	-10.33339	2.16459	-0.49977	-1.26236	0.37391	-0.00216	0.52241	0.56866	0.01163	0.87813
1.66806	-10.42639	2.17683	-0.50102	-1.26504	0.37545	-0.00214	0.52808	0.56531	0.01216	0.87946
1.70736	-10.52045	2.18880	-0.50208	-1.26825	0.38197	-0.00213	0.53979	0.55971	0.01259	0.88209
1.74764	-10.61724	2.20056	-0.50283	-1.27179	0.39334	-0.00215	0.55768	0.55190	0.01294	0.88580
1.78859	-10.71697	2.21215	-0.50316	-1.27559	0.40895	-0.00218	0.58202	0.54206	0.01325	0.89033
1.83083	-10.82096	2.22384	-0.50300	-1.27985	0.42820	-0.00222	0.61411	0.53013	0.01355	0.89548
1.87371	-10.92635	2.23547	-0.50231	-1.28479	0.45001	-0.00227	0.65509	0.51632	0.01386	0.90098
1.91791	-11.03310	2.24719	-0.50106	-1.29071	0.47401	-0.00233	0.70791	0.50041	0.01419	0.90672
1.96309	-11.13881	2.25875	-0.49931	-1.29762	0.49947	-0.00239	0.77488	0.48258	0.01453	0.91261

2.00924	-11.24224	2.27004	-0.49707	-1.30551	0.52615	-0.00245	0.85875	0.46298	0.01485	0.91861
2.05634	-11.34144	2.28093	-0.49439	-1.31453	0.55407	-0.00251	0.96332	0.44173	0.01516	0.92463
2.10482	-11.43630	2.29146	-0.49125	-1.32483	0.58332	-0.00257	1.09324	0.41897	0.01545	0.93050
2.15424	-11.52646	2.30158	-0.48765	-1.33615	0.61321	-0.00263	1.24975	0.39542	0.01575	0.93580
2.20507	-11.61398	2.31145	-0.48353	-1.34831	0.64349	-0.00268	1.43547	0.37147	0.01608	0.94028
2.25683	-11.69910	2.32102	-0.47888	-1.36096	0.67380	-0.00273	1.64942	0.34780	0.01645	0.94380
2.31000	-11.78350	2.33041	-0.47366	-1.37395	0.70403	-0.00278	1.89380	0.32455	0.01686	0.94640
2.36463	-11.86834	2.33959	-0.46791	-1.38693	0.73366	-0.00282	2.16797	0.30200	0.01729	0.94814
2.42014	-11.95530	2.34853	-0.46171	-1.39914	0.76169	-0.00286	2.46407	0.28073	0.01776	0.94898
2.47709	-12.04799	2.35730	-0.45508	-1.41004	0.78753	-0.00290	2.77714	0.26076	0.01826	0.94896
2.53550	-12.14959	2.36597	-0.44810	-1.41890	0.81044	-0.00293	3.09542	0.24238	0.01879	0.94834
2.59471	-12.26043	2.37458	-0.44088	-1.42537	0.83017	-0.00295	3.40485	0.22589	0.01932	0.94747
2.65604	-12.38281	2.38335	-0.43334	-1.42955	0.84752	-0.00298	3.70329	0.21097	0.01981	0.94681
2.71887	-12.51383	2.39222	-0.42566	-1.43168	0.86269	-0.00300	3.98199	0.19773	0.02020	0.94688
2.78242	-12.65016	2.40113	-0.41796	-1.43215	0.87583	-0.00302	4.23532	0.18617	0.02047	0.94794
2.84819	-12.79282	2.41022	-0.41014	-1.43133	0.88765	-0.00305	4.46718	0.17594	0.02060	0.95031
2.91545	-12.93918	2.41949	-0.40234	-1.42950	0.89819	-0.00307	4.67278	0.16706	0.02059	0.95415
2.98329	-13.08597	2.42864	-0.39468	-1.42685	0.90738	-0.00309	4.84818	0.15959	0.02044	0.95929
3.05344	-13.23589	2.43807	-0.38705	-1.42361	0.91552	-0.00311	4.99916	0.15321	0.02018	0.96555
3.12598	-13.38840	2.44759	-0.37939	-1.41981	0.92265	-0.00313	5.12521	0.14785	0.01982	0.97263
3.19898	-13.53872	2.45704	-0.37199	-1.41573	0.92873	-0.00314	5.22478	0.14354	0.01942	0.97990
3.27439	-13.69088	2.46658	-0.36461	-1.41128	0.93397	-0.00316	5.30062	0.14010	0.01898	0.98717
3.35121	-13.84184	2.47612	-0.35743	-1.40669	0.93846	-0.00317	5.35411	0.13748	0.01852	0.99409
3.43053	-13.99386	2.48570	-0.35028	-1.40186	0.94231	-0.00318	5.38631	0.13560	0.01803	1.00096
3.51124	-14.14365	2.49526	-0.34337	-1.39709	0.94567	-0.00319	5.40042	0.13439	0.01754	1.00783
3.59324	-14.29092	2.50459	-0.33662	-1.39236	0.94855	-0.00320	5.39714	0.13384	0.01703	1.01506
3.67782	-14.43797	2.51421	-0.33003	-1.38782	0.95125	-0.00320	5.38088	0.13378	0.01651	1.02298
3.76506	-14.58319	2.52343	-0.32351	-1.38332	0.95360	-0.00321	5.34916	0.13435	0.01595	1.03210
3.85356	-14.72696	2.53316	-0.31724	-1.37918	0.95590	-0.00321	5.30885	0.13528	0.01540	1.04202
3.94477	-14.86696	2.54214	-0.31108	-1.37518	0.95794	-0.00322	5.25789	0.13671	0.01481	1.05284
4.03714	-15.00651	2.55177	-0.30508	-1.37153	0.96000	-0.00322	5.20104	0.13842	0.01424	1.06391
4.13223	-15.14235	2.56091	-0.29926	-1.36815	0.96199	-0.00322	5.14007	0.14039	0.01367	1.07519
4.23012	-15.27767	2.57002	-0.29344	-1.36492	0.96386	-0.00322	5.07159	0.14273	0.01310	1.08639
4.32900	-15.41206	2.57982	-0.28786	-1.36206	0.96585	-0.00322	5.00285	0.14513	0.01256	1.09676
4.43066	-15.54011	2.58820	-0.28240	-1.35932	0.96757	-0.00322	4.93014	0.14783	0.01201	1.10674
4.53515	-15.67281	2.59792	-0.27688	-1.35680	0.96941	-0.00322	4.85414	0.15069	0.01147	1.11609
4.64253	-15.80280	2.60742	-0.27156	-1.35453	0.97128	-0.00322	4.78030	0.15354	0.01095	1.12482
4.75059	-15.92491	2.61544	-0.26636	-1.35236	0.97283	-0.00321	4.70520	0.15659	0.01040	1.13310
4.86145	-16.05469	2.62557	-0.26108	-1.35044	0.97464	-0.00321	4.62947	0.15966	0.00990	1.14072
4.97760	-16.18069	2.63476	-0.25594	-1.34868	0.97642	-0.00321	4.55709	0.16270	0.00938	1.14808
5.09424	-16.29893	2.64249	-0.25089	-1.34699	0.97787	-0.00320	4.48479	0.16587	0.00884	1.15516
5.21376	-16.42757	2.65293	-0.24569	-1.34553	0.97966	-0.00320	4.41192	0.16904	0.00834	1.16171
5.33618	-16.54903	2.66211	-0.24081	-1.34424	0.98138	-0.00319	4.34594	0.17200	0.00785	1.16801
5.46150	-16.66085	2.66896	-0.23600	-1.34294	0.98269	-0.00319	4.28049	0.17507	0.00730	1.17447
5.58971	-16.78524	2.67887	-0.23091	-1.34180	0.98433	-0.00318	4.21281	0.17820	0.00679	1.18073
5.72082	-16.90974	2.68929	-0.22604	-1.34087	0.98616	-0.00317	4.15153	0.18106	0.00632	1.18686
5.85823	-17.01702	2.69534	-0.22147	-1.33987	0.98740	-0.00317	4.09447	0.18391	0.00578	1.19365
5.99520	-17.13017	2.70315	-0.21667	-1.33897	0.98872	-0.00316	4.03541	0.18684	0.00525	1.20045
6.13497	-17.25736	2.71452	-0.21167	-1.33830	0.99055	-0.00315	3.97735	0.18966	0.00479	1.20705
6.28141	-17.36932	2.72240	-0.20722	-1.33767	0.99209	-0.00314	3.92852	0.19215	0.00433	1.21398
6.42674	-17.46356	2.72664	-0.20309	-1.33698	0.99304	-0.00314	3.88290	0.19461	0.00384	1.22119
6.57895	-17.57735	2.73489	-0.19833	-1.33641	0.99441	-0.00313	3.83210	0.19727	0.00335	1.22857
6.73401	-17.70569	2.74684	-0.19335	-1.33606	0.99632	-0.00312	3.78291	0.19978	0.00294	1.23568
6.89180	-17.80527	2.75282	-0.18943	-1.33572	0.99765	-0.00311	3.74627	0.20180	0.00255	1.24293
7.05716	-17.89023	2.75499	-0.18568	-1.33528	0.99843	-0.00310	3.71087	0.20389	0.00209	1.25073
7.22022	-17.99082	2.76123	-0.18144	-1.33498	0.99961	-0.00310	3.67229	0.20605	0.00168	1.25805
7.39098	-18.11566	2.77263	-0.17654	-1.33485	1.00142	-0.00309	3.63063	0.20828	0.00131	1.26505
7.56430	-18.22070	2.78032	-0.17263	-1.33481	1.00298	-0.00308	3.60010	0.21001	0.00100	1.27156
7.73994	-18.28191	2.77857	-0.17006	-1.33461	1.00344	-0.00307	3.57949	0.21141	0.00064	1.27805
7.92393	-18.35986	2.78002	-0.16677	-1.33447	1.00418	-0.00306	3.55335	0.21306	0.00027	1.28425
8.11030	-18.45572	2.78553	-0.16286	-1.33445	1.00533	-0.00306	3.52364	0.21483	-0.00007	1.28983
8.29876	-18.57646	2.79674	-0.15822	-1.33458	1.00712	-0.00304	3.49091	0.21666	-0.00035	1.29469
8.49618	-18.65570	2.79925	-0.15549	-1.33469	1.00816	-0.00304	3.47318	0.21782	-0.00061	1.29935
8.69565	-18.68449	2.79127	-0.15457	-1.33466	1.00809	-0.00303	3.46688	0.21854	-0.00089	1.30411
8.90472	-18.73833	2.78822	-0.15262	-1.33472	1.00848	-0.00303	3.45348	0.21956	-0.00117	1.30880
9.11577	-18.80128	2.78736	-0.15034	-1.33483	1.00908	-0.00302	3.43833	0.22063	-0.00144	1.31331
9.32836	-18.90122	2.79429	-0.14646	-1.33504	1.01034	-0.00301	3.41300	0.22214	-0.00171	1.31773
9.54198	-18.98822	2.79923	-0.14351	-1.33531	1.01151	-0.00300	3.39557	0.22324	-0.00191	1.32202
9.76563	-18.98583	2.78603	-0.14487	-1.33546	1.01120	-0.00300	3.40607	0.22301	-0.00205	1.32676
10.00000	-18.97518	2.77102	-0.14666	-1.33565	1.01080	-0.00299	3.41940	0.22263	-0.00218	1.33217

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
High stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 305 - 610 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-2.56493	2.47477	-0.23804	-2.52602	0.84147	-0.00104	6.46537	0.29936	0.00167	0.39123
PGV	9.72000	1.97768	-0.15940	-3.91945	1.06891	0.00029	19.72173	0.24277	-0.01772	0.51556
PGA	6.44325	1.67658	-0.07958	-3.54685	0.57391	-0.00034	10.31118	0.42082	-0.02877	0.80668
0.01000	6.33174	1.68897	-0.07686	-3.52388	0.54407	-0.00036	10.19892	0.42714	-0.02378	0.79429
0.01024	6.33616	1.68941	-0.07660	-3.52442	0.54304	-0.00036	10.19897	0.42738	-0.02383	0.79482
0.01048	6.34458	1.68983	-0.07633	-3.52564	0.54216	-0.00036	10.20577	0.42753	-0.02388	0.79533
0.01072	6.35696	1.69026	-0.07606	-3.52754	0.54142	-0.00036	10.21918	0.42761	-0.02393	0.79582
0.01097	6.37334	1.69068	-0.07577	-3.53013	0.54081	-0.00036	10.23918	0.42761	-0.02398	0.79630
0.01123	6.39384	1.69112	-0.07547	-3.53342	0.54031	-0.00036	10.26594	0.42754	-0.02405	0.79677
0.01150	6.41865	1.69157	-0.07516	-3.53744	0.53991	-0.00035	10.29973	0.42740	-0.02412	0.79724
0.01177	6.44810	1.69204	-0.07483	-3.54224	0.53960	-0.00035	10.34103	0.42718	-0.02419	0.79772
0.01205	6.48260	1.69253	-0.07448	-3.54790	0.53940	-0.00035	10.39054	0.42688	-0.02428	0.79821
0.01233	6.52263	1.69306	-0.07410	-3.55449	0.53929	-0.00034	10.44903	0.42650	-0.02437	0.79874
0.01262	6.56888	1.69363	-0.07370	-3.56214	0.53927	-0.00033	10.51765	0.42603	-0.02448	0.79930
0.01292	6.62197	1.69425	-0.07326	-3.57093	0.53936	-0.00033	10.59741	0.42546	-0.02460	0.79992
0.01322	6.68253	1.69492	-0.07279	-3.58097	0.53954	-0.00032	10.68935	0.42480	-0.02473	0.80062
0.01353	6.75150	1.69566	-0.07228	-3.59243	0.53983	-0.00031	10.79507	0.42402	-0.02488	0.80141
0.01385	6.83014	1.69648	-0.07172	-3.60549	0.54023	-0.00030	10.91681	0.42312	-0.02504	0.80232
0.01417	6.91890	1.69739	-0.07110	-3.62023	0.54073	-0.00029	11.05549	0.42210	-0.02523	0.80337
0.01451	7.01790	1.69839	-0.07041	-3.63666	0.54130	-0.00027	11.21129	0.42096	-0.02543	0.80459
0.01485	7.12737	1.69949	-0.06965	-3.65478	0.54191	-0.00026	11.38477	0.41972	-0.02566	0.80602
0.01520	7.24763	1.70068	-0.06881	-3.67462	0.54255	-0.00024	11.57687	0.41837	-0.02592	0.80765
0.01556	7.38149	1.70199	-0.06790	-3.69667	0.54329	-0.00023	11.79268	0.41689	-0.02620	0.80952
0.01592	7.53143	1.70347	-0.06689	-3.72135	0.54421	-0.00021	12.03699	0.41523	-0.02651	0.81167
0.01630	7.47081	1.70394	-0.06490	-3.70707	0.53760	-0.00023	11.92721	0.41712	-0.02683	0.81399
0.01668	7.87517	1.70691	-0.06449	-3.77763	0.54652	-0.00017	12.60597	0.41156	-0.02725	0.81697
0.01707	8.06913	1.70891	-0.06309	-3.80918	0.54766	-0.00015	12.93133	0.40959	-0.02768	0.82013
0.01748	8.27109	1.71104	-0.06156	-3.84178	0.54850	-0.00013	13.27225	0.40766	-0.02814	0.82360
0.01789	8.47197	1.71320	-0.05991	-3.87383	0.54901	-0.00011	13.61297	0.40586	-0.02864	0.82735
0.01831	8.66662	1.71541	-0.05813	-3.90443	0.54910	-0.00009	13.94382	0.40430	-0.02916	0.83127
0.01874	8.86064	1.71783	-0.05626	-3.93469	0.54908	-0.00008	14.27511	0.40287	-0.02965	0.83509
0.01918	9.06531	1.72060	-0.05432	-3.96663	0.54947	-0.00006	14.62935	0.40139	-0.03012	0.83870
0.01963	9.27577	1.72374	-0.05229	-3.99950	0.55023	-0.00005	14.99678	0.39995	-0.03057	0.84229
0.02009	9.46916	1.72714	-0.05015	-4.02936	0.55088	-0.00005	15.33193	0.39888	-0.03103	0.84594
0.02057	9.63351	1.73073	-0.04792	-4.05413	0.55086	-0.00005	15.61035	0.39833	-0.03144	0.84938
0.02105	9.77496	1.73444	-0.04567	-4.07491	0.54983	-0.00005	15.84235	0.39820	-0.03179	0.85242
0.02154	9.90393	1.73829	-0.04347	-4.09350	0.54794	-0.00005	16.04847	0.39834	-0.03214	0.85544
0.02205	10.02066	1.74224	-0.04130	-4.10983	0.54540	-0.00006	16.23205	0.39868	-0.03255	0.85883
0.02257	10.09685	1.74617	-0.03916	-4.11928	0.54205	-0.00007	16.33433	0.39962	-0.03295	0.86228
0.02310	10.09482	1.75022	-0.03686	-4.11578	0.53761	-0.00009	16.27697	0.40167	-0.03325	0.86500
0.02364	10.01433	1.75437	-0.03436	-4.09934	0.53215	-0.00013	16.06334	0.40481	-0.03343	0.86688
0.02420	9.87707	1.75835	-0.03170	-4.07336	0.52622	-0.00017	15.74360	0.40869	-0.03361	0.86865
0.02477	9.70592	1.76207	-0.02898	-4.04151	0.52019	-0.00022	15.36673	0.41302	-0.03380	0.87035
0.02535	9.51421	1.76582	-0.02631	-4.00615	0.51354	-0.00028	14.95388	0.41774	-0.03393	0.87173
0.02595	9.33877	1.77004	-0.02376	-3.97389	0.50675	-0.00032	14.56951	0.42242	-0.03404	0.87303
0.02656	9.23247	1.77485	-0.02143	-3.95383	0.50090	-0.00036	14.31229	0.42619	-0.03409	0.87411
0.02719	9.18125	1.77997	-0.01935	-3.94346	0.49538	-0.00038	14.15522	0.42921	-0.03397	0.87415
0.02783	9.12223	1.78550	-0.01740	-3.93242	0.48864	-0.00040	13.97728	0.43244	-0.03366	0.87300
0.02848	9.00687	1.79173	-0.01536	-3.91262	0.48018	-0.00043	13.68811	0.43673	-0.03330	0.87149
0.02915	8.80396	1.79760	-0.01310	-3.87790	0.47017	-0.00047	13.24517	0.44243	-0.03299	0.87023
0.02984	8.51403	1.80167	-0.01071	-3.82715	0.45823	-0.00052	12.66695	0.44940	-0.03272	0.86929
0.03054	8.16863	1.80378	-0.00818	-3.76542	0.44598	-0.00058	12.02245	0.45712	-0.03264	0.86965
0.03126	7.82668	1.80507	-0.00564	-3.70356	0.43580	-0.00064	11.41438	0.46466	-0.03279	0.87166
0.03199	7.53339	1.80654	-0.00335	-3.65022	0.42751	-0.00070	10.90630	0.47137	-0.03295	0.87383
0.03275	7.28494	1.80861	-0.00133	-3.60515	0.42028	-0.00076	10.48116	0.47740	-0.03297	0.87507
0.03352	7.06415	1.81147	0.00051	-3.56556	0.41338	-0.00080	10.10507	0.48311	-0.03295	0.87602
0.03430	6.85058	1.81550	0.00233	-3.52832	0.40531	-0.00085	9.73367	0.48909	-0.03287	0.87669
0.03511	6.60914	1.82025	0.00434	-3.48690	0.39397	-0.00088	9.31274	0.49613	-0.03255	0.87569
0.03594	6.32197	1.82472	0.00666	-3.43747	0.38098	-0.00093	8.83227	0.50432	-0.03199	0.87309
0.03678	5.99720	1.82893	0.00918	-3.38160	0.36778	-0.00098	8.31317	0.51342	-0.03145	0.87058
0.03765	5.63483	1.83300	0.01183	-3.31923	0.35413	-0.00104	7.76077	0.52356	-0.03109	0.86932
0.03854	5.26234	1.83658	0.01450	-3.25490	0.34104	-0.00110	7.21720	0.53412	-0.03093	0.86957
0.03944	4.93577	1.84025	0.01684	-3.19903	0.33086	-0.00115	6.75196	0.54380	-0.03083	0.87026
0.04037	4.66067	1.84477	0.01882	-3.15324	0.32309	-0.00119	6.36101	0.55257	-0.03058	0.86984
0.04132	4.41914	1.85005	0.02054	-3.11419	0.31584	-0.00123	6.01481	0.56097	-0.03021	0.86850
0.04229	4.21040	1.85390	0.02177	-3.07996	0.30839	-0.00125	5.71318	0.56866	-0.02978	0.86678
0.04329	4.02083	1.85424	0.02245	-3.04681	0.30229	-0.00126	5.44815	0.57531	-0.02919	0.86392
0.04431	3.81162	1.85227	0.02313	-3.00876	0.29853	-0.00129	5.18055	0.58185	-0.02849	0.86022
0.04535	3.57792	1.85013	0.02408	-2.96623	0.29540	-0.00133	4.90141	0.58893	-0.02786	0.85678

0.04642	3.34519	1.84851	0.02497	-2.92411	0.29101	-0.00137	4.63306	0.59624	-0.02748	0.85469
0.04751	3.13468	1.84775	0.02553	-2.88619	0.28514	-0.00140	4.39695	0.60324	-0.02714	0.85284
0.04863	2.94942	1.84839	0.02580	-2.85326	0.27772	-0.00142	4.19350	0.60990	-0.02656	0.84945
0.04977	2.78974	1.84994	0.02560	-2.82524	0.26744	-0.00143	4.01427	0.61638	-0.02595	0.84591
0.05094	2.65931	1.85032	0.02472	-2.80144	0.25515	-0.00143	3.85974	0.62226	-0.02552	0.84358
0.05214	2.55772	1.84906	0.02341	-2.78152	0.24426	-0.00142	3.73245	0.62716	-0.02520	0.84193
0.05337	2.46972	1.84774	0.02207	-2.76396	0.23641	-0.00141	3.62158	0.63146	-0.02487	0.84014
0.05462	2.40108	1.84802	0.02065	-2.75126	0.23206	-0.00141	3.53161	0.63511	-0.02444	0.83783
0.05591	2.34415	1.85044	0.01912	-2.74260	0.23010	-0.00141	3.45417	0.63847	-0.02390	0.83478
0.05722	2.29184	1.85322	0.01746	-2.73526	0.22921	-0.00141	3.38248	0.64163	-0.02350	0.83250
0.05857	2.23199	1.85437	0.01568	-2.72558	0.22826	-0.00141	3.30607	0.64479	-0.02337	0.83210
0.05995	2.14943	1.85316	0.01386	-2.71019	0.22535	-0.00141	3.21184	0.64851	-0.02331	0.83247
0.06136	2.07006	1.84970	0.01177	-2.69364	0.22193	-0.00141	3.12397	0.65178	-0.02330	0.83334
0.06280	1.98125	1.84521	0.00980	-2.67466	0.22005	-0.00141	3.03537	0.65493	-0.02346	0.83543
0.06428	1.87456	1.84099	0.00814	-2.65249	0.21989	-0.00143	2.93911	0.65850	-0.02367	0.83795
0.06579	1.75949	1.83689	0.00649	-2.62857	0.22011	-0.00145	2.84068	0.66236	-0.02381	0.83987
0.06734	1.65134	1.83133	0.00459	-2.60448	0.21989	-0.00147	2.75031	0.66588	-0.02388	0.84125
0.06893	1.54142	1.82385	0.00248	-2.57842	0.21751	-0.00148	2.65829	0.66952	-0.02372	0.84093
0.07055	1.39688	1.81598	0.00069	-2.54600	0.21130	-0.00150	2.53826	0.67485	-0.02335	0.83898
0.07221	1.22980	1.80981	-0.00068	-2.51099	0.20322	-0.00151	2.40509	0.68142	-0.02306	0.83772
0.07391	1.06487	1.80626	-0.00185	-2.47822	0.19577	-0.00153	2.28138	0.68810	-0.02312	0.83892
0.07565	0.92046	1.80422	-0.00325	-2.45060	0.19093	-0.00156	2.17563	0.69407	-0.02345	0.84187
0.07743	0.79683	1.80302	-0.00498	-2.42798	0.18914	-0.00158	2.08674	0.69909	-0.02371	0.84433
0.07925	0.70555	1.80204	-0.00726	-2.41135	0.18780	-0.00159	2.02149	0.70277	-0.02360	0.84458
0.08111	0.61770	1.80051	-0.00965	-2.39424	0.18283	-0.00159	1.95764	0.70674	-0.02296	0.84160
0.08302	0.47850	1.79731	-0.01140	-2.36643	0.17282	-0.00160	1.85922	0.71338	-0.02201	0.83641
0.08498	0.29718	1.79102	-0.01279	-2.32905	0.15853	-0.00159	1.73127	0.72241	-0.02101	0.83057
0.08697	0.11490	1.78423	-0.01412	-2.29165	0.14259	-0.00158	1.60288	0.73216	-0.02006	0.82460
0.08902	-0.02484	1.77926	-0.01570	-2.26382	0.13026	-0.00157	1.50492	0.74003	-0.01923	0.81915
0.09112	-0.08236	1.77609	-0.01813	-2.25232	0.12591	-0.00155	1.46117	0.74322	-0.01860	0.81540
0.09326	-0.07682	1.77553	-0.02107	-2.25404	0.13008	-0.00155	1.46164	0.74231	-0.01823	0.81386
0.09545	-0.04485	1.77578	-0.02431	-2.26086	0.13937	-0.00156	1.48316	0.73932	-0.01829	0.81534
0.09770	-0.03575	1.77313	-0.02790	-2.26093	0.14463	-0.00156	1.49039	0.73747	-0.01868	0.81893
0.10000	-0.07338	1.76551	-0.03211	-2.24865	0.14086	-0.00154	1.46299	0.73850	-0.01893	0.82165
0.10235	-0.14715	1.75652	-0.03645	-2.22913	0.13302	-0.00152	1.41311	0.74156	-0.01891	0.82298
0.10476	-0.20087	1.74933	-0.04084	-2.21493	0.12903	-0.00151	1.37942	0.74317	-0.01895	0.82543
0.10723	-0.24738	1.74262	-0.04514	-2.20222	0.12784	-0.00150	1.35453	0.74391	-0.01919	0.82969
0.10975	-0.31567	1.73595	-0.04904	-2.18563	0.13001	-0.00152	1.32453	0.74494	-0.01948	0.83409
0.11233	-0.37169	1.73107	-0.05285	-2.17339	0.13914	-0.00155	1.30763	0.74440	-0.01950	0.83605
0.11498	-0.39511	1.72734	-0.05697	-2.16858	0.15251	-0.00159	1.30810	0.74196	-0.01928	0.83588
0.11768	-0.43355	1.72254	-0.06104	-2.16029	0.16282	-0.00161	1.29559	0.74088	-0.01896	0.83482
0.12045	-0.50213	1.71677	-0.06506	-2.14526	0.16547	-0.00162	1.26215	0.74230	-0.01839	0.83193
0.12328	-0.57956	1.71144	-0.06907	-2.12821	0.16227	-0.00162	1.22117	0.74513	-0.01761	0.82778
0.12619	-0.63600	1.70675	-0.07325	-2.11504	0.15881	-0.00162	1.18954	0.74728	-0.01672	0.82312
0.12916	-0.65181	1.70277	-0.07804	-2.10963	0.15665	-0.00160	1.17816	0.74731	-0.01543	0.81566
0.13219	-0.62150	1.69980	-0.08352	-2.11338	0.15321	-0.00157	1.19040	0.74492	-0.01391	0.80650
0.13531	-0.58755	1.69712	-0.08893	-2.11820	0.14672	-0.00152	1.20479	0.74247	-0.01299	0.80086
0.13849	-0.59380	1.69374	-0.09361	-2.11536	0.13876	-0.00147	1.19886	0.74221	-0.01256	0.79837
0.14175	-0.65125	1.68945	-0.09754	-2.10268	0.13188	-0.00145	1.16873	0.74435	-0.01216	0.79565
0.14508	-0.73431	1.68533	-0.10110	-2.08599	0.12849	-0.00145	1.13001	0.74718	-0.01176	0.79253
0.14850	-0.81792	1.68175	-0.10456	-2.07019	0.12801	-0.00146	1.09543	0.74939	-0.01131	0.78895
0.15199	-0.89261	1.67894	-0.10820	-2.05679	0.12858	-0.00146	1.06854	0.75078	-0.01035	0.78236
0.15557	-0.94264	1.67774	-0.11224	-2.04893	0.13052	-0.00147	1.05550	0.75077	-0.00894	0.77307
0.15923	-0.98423	1.67788	-0.11627	-2.04303	0.13497	-0.00148	1.04940	0.75006	-0.00770	0.76499
0.16298	-1.04721	1.67699	-0.12019	-2.03146	0.13876	-0.00151	1.03338	0.75059	-0.00697	0.76013
0.16681	-1.11568	1.67417	-0.12446	-2.01681	0.14093	-0.00153	1.01177	0.75177	-0.00662	0.75754
0.17074	-1.15346	1.67058	-0.12923	-2.00742	0.14744	-0.00156	1.00387	0.75088	-0.00662	0.75701
0.17475	-1.17972	1.66734	-0.13381	-2.00094	0.16041	-0.00159	1.00429	0.74857	-0.00688	0.75778
0.17887	-1.23495	1.66485	-0.13772	-1.98995	0.17557	-0.00165	0.99525	0.74740	-0.00711	0.75849
0.18307	-1.32684	1.66249	-0.14129	-1.97257	0.18913	-0.00172	0.97143	0.74817	-0.00725	0.75936
0.18738	-1.43534	1.65877	-0.14505	-1.95141	0.20130	-0.00178	0.94043	0.74976	-0.00741	0.76128
0.19179	-1.52972	1.65468	-0.14918	-1.93285	0.21521	-0.00183	0.91612	0.75040	-0.00768	0.76456
0.19631	-1.61370	1.65217	-0.15344	-1.91798	0.22966	-0.00187	0.89420	0.75100	-0.00798	0.76831
0.20092	-1.72034	1.65130	-0.15735	-1.90078	0.23979	-0.00191	0.85778	0.75419	-0.00822	0.77184
0.20565	-1.87086	1.65070	-0.16059	-1.87567	0.24375	-0.00195	0.80008	0.76120	-0.00856	0.77581
0.21049	-2.03216	1.64800	-0.16392	-1.84631	0.24326	-0.00199	0.73874	0.76934	-0.00914	0.78121
0.21544	-2.17319	1.64179	-0.16803	-1.81720	0.24208	-0.00203	0.68856	0.77566	-0.00989	0.78775
0.22051	-2.28857	1.63406	-0.17251	-1.79097	0.24651	-0.00207	0.65443	0.77894	-0.01035	0.79282
0.22570	-2.38295	1.62782	-0.17677	-1.76901	0.25571	-0.00214	0.63433	0.77984	-0.01019	0.79399
0.23101	-2.45587	1.62397	-0.18099	-1.75239	0.26097	-0.00218	0.62344	0.77970	-0.00950	0.79150
0.23645	-2.49861	1.62239	-0.18589	-1.74383	0.25830	-0.00219	0.62054	0.77859	-0.00870	0.78797
0.24201	-2.51145	1.62261	-0.19170	-1.74373	0.25066	-0.00215	0.62533	0.77613	-0.00819	0.78641
0.24771	-2.50126	1.62235	-0.19853	-1.74838	0.24225	-0.00209	0.63774	0.77184	-0.00822	0.78874
0.25354	-2.49204	1.61955	-0.20587	-1.75047	0.23661	-0.00203	0.65209	0.76662	-0.00883	0.79490
0.25950	-2.50581	1.61536	-0.21272	-1.74644	0.23649	-0.00201	0.66196	0.76200	-0.00984	0.80300
0.26561	-2.54058	1.61419	-0.21836	-1.74105	0.24261	-0.00202	0.66822	0.75853	-0.01082	0.81048
0.27186	-2.57169	1.61911	-0.22308	-1.74242	0.25265	-0.00204	0.67915	0.75505	-0.01138	0.81557
0.27826	-2.58284	1.62810	-0.22786	-1.75220	0.26360	-0.00205	0.69885	0.75040	-0.01143	0.81786
0.28480	-2.58101	1.63658	-0.23342	-1.76457	0.27443	-0.00205	0.72364	0.74456	-0.01116	0.81827
0.29150	-2.58199	1.64142	-0.23982	-1.77306	0.28292	-0.00205	0.74650	0.73849	-0.01068	0.81741
0.29836	-2.61101	1.64208	-0.24632	-1.77195	0.28693	-0.00205	0.75542	0.73435	-0.00994	0.81469

0.30539	-2.67211	1.64090	-0.25197	-1.76255	0.28971	-0.00206	0.74897	0.73273	-0.00894	0.80964
0.31257	-2.74583	1.64107	-0.25649	-1.75149	0.29650	-0.00207	0.73748	0.73238	-0.00793	0.80360
0.31993	-2.82954	1.64318	-0.26023	-1.73974	0.30722	-0.00211	0.72259	0.73312	-0.00747	0.80037
0.32745	-2.93339	1.64576	-0.26364	-1.72403	0.31415	-0.00215	0.69766	0.73614	-0.00797	0.80329
0.33517	-3.07188	1.64722	-0.26713	-1.70073	0.30765	-0.00216	0.65398	0.74316	-0.00902	0.81036
0.34304	-3.25369	1.64724	-0.27079	-1.66879	0.28656	-0.00215	0.58969	0.75500	-0.00963	0.81508
0.35112	-3.45553	1.64623	-0.27482	-1.63345	0.25972	-0.00211	0.52012	0.76906	-0.00927	0.81356
0.35938	-3.63155	1.64509	-0.27950	-1.60386	0.23860	-0.00208	0.46680	0.78014	-0.00802	0.80627
0.36784	-3.76338	1.64493	-0.28470	-1.58386	0.22931	-0.00206	0.43615	0.78557	-0.00641	0.79675
0.37649	-3.86751	1.64656	-0.28972	-1.57049	0.23233	-0.00207	0.42041	0.78696	-0.00514	0.78977
0.38536	-3.96525	1.65019	-0.29434	-1.55966	0.24376	-0.00211	0.41037	0.78696	-0.00454	0.78747
0.39442	-4.04704	1.65591	-0.29911	-1.55350	0.26086	-0.00218	0.40815	0.78478	-0.00461	0.78947
0.40370	-4.08576	1.66351	-0.30479	-1.55749	0.28267	-0.00224	0.42254	0.77748	-0.00524	0.79503
0.41321	-4.08086	1.67229	-0.31142	-1.57140	0.30714	-0.00230	0.45437	0.76523	-0.00605	0.80187
0.42292	-4.05703	1.68084	-0.31862	-1.58896	0.33045	-0.00234	0.49561	0.75104	-0.00656	0.80711
0.43288	-4.04248	1.68724	-0.32598	-1.60254	0.34843	-0.00238	0.53486	0.73800	-0.00658	0.80966
0.44307	-4.05945	1.69030	-0.33309	-1.60657	0.35861	-0.00240	0.56124	0.72825	-0.00616	0.80975
0.45349	-4.11345	1.69063	-0.33972	-1.60054	0.36121	-0.00241	0.57181	0.72205	-0.00552	0.80836
0.46417	-4.19389	1.68999	-0.34596	-1.58826	0.35825	-0.00243	0.57133	0.71833	-0.00490	0.80669
0.47508	-4.28698	1.69032	-0.35205	-1.57466	0.35250	-0.00244	0.56499	0.71616	-0.00433	0.80507
0.48626	-4.39510	1.69242	-0.35800	-1.56072	0.34498	-0.00243	0.55027	0.71615	-0.00375	0.80357
0.49771	-4.52844	1.69562	-0.36355	-1.54412	0.33378	-0.00242	0.52245	0.71944	-0.00339	0.80377
0.50942	-4.68851	1.69889	-0.36851	-1.52333	0.31834	-0.00239	0.48340	0.72582	-0.00345	0.80678
0.52140	-4.86586	1.70175	-0.37300	-1.49909	0.30195	-0.00237	0.44052	0.73381	-0.00375	0.81131
0.53367	-5.04611	1.70463	-0.37717	-1.47411	0.28908	-0.00236	0.40140	0.74161	-0.00406	0.81609
0.54624	-5.21980	1.70797	-0.38108	-1.45044	0.28153	-0.00236	0.36871	0.74837	-0.00431	0.82090
0.55910	-5.38543	1.71149	-0.38487	-1.42804	0.27623	-0.00238	0.34042	0.75459	-0.00465	0.82668
0.57225	-5.54667	1.71466	-0.38878	-1.40558	0.26855	-0.00239	0.31340	0.76132	-0.00513	0.83367
0.58569	-5.70593	1.71776	-0.39300	-1.38304	0.25844	-0.00240	0.28711	0.76873	-0.00543	0.83958
0.59948	-5.85613	1.72164	-0.39774	-1.36326	0.25022	-0.00241	0.26504	0.77506	-0.00517	0.84211
0.61357	-5.98684	1.72631	-0.40307	-1.34875	0.24624	-0.00242	0.25071	0.77790	-0.00450	0.84203
0.62802	-6.09954	1.73111	-0.40880	-1.33864	0.24597	-0.00244	0.24393	0.77656	-0.00378	0.84169
0.64280	-6.19961	1.73547	-0.41465	-1.33093	0.24903	-0.00246	0.24286	0.77169	-0.00323	0.84227
0.65794	-6.28945	1.73925	-0.42057	-1.32466	0.25616	-0.00250	0.24641	0.76396	-0.00276	0.84328
0.67340	-6.36893	1.74268	-0.42650	-1.31992	0.26774	-0.00255	0.25432	0.75382	-0.00226	0.84394
0.68927	-6.44038	1.74637	-0.43233	-1.31684	0.28285	-0.00260	0.26619	0.74199	-0.00169	0.84429
0.70547	-6.51255	1.75079	-0.43781	-1.31410	0.29826	-0.00265	0.27900	0.73040	-0.00107	0.84451
0.72207	-6.59854	1.75622	-0.44280	-1.30955	0.31074	-0.00270	0.28788	0.72121	-0.00041	0.84437
0.73910	-6.70494	1.76289	-0.44724	-1.30237	0.31932	-0.00273	0.28983	0.71546	0.00030	0.84307
0.75649	-6.83000	1.77072	-0.45120	-1.29292	0.32416	-0.00276	0.28506	0.71289	0.00116	0.83969
0.77429	-6.96693	1.77926	-0.45483	-1.28211	0.32548	-0.00278	0.27622	0.71229	0.00211	0.83450
0.79246	-7.10547	1.78792	-0.45819	-1.27132	0.32390	-0.00279	0.26702	0.71202	0.00293	0.82919
0.81116	-7.24018	1.79651	-0.46141	-1.26147	0.32052	-0.00279	0.26000	0.71072	0.00343	0.82512
0.83022	-7.36300	1.80487	-0.46470	-1.25386	0.31722	-0.00279	0.25804	0.70688	0.00358	0.82273
0.84976	-7.46980	1.81294	-0.46827	-1.24922	0.31631	-0.00278	0.26354	0.69922	0.00342	0.82201
0.86972	-7.56407	1.82081	-0.47194	-1.24679	0.31935	-0.00279	0.27553	0.68847	0.00307	0.82271
0.89023	-7.65825	1.82903	-0.47531	-1.24465	0.32639	-0.00280	0.28970	0.67709	0.00271	0.82418
0.91116	-7.76107	1.83806	-0.47805	-1.24150	0.33633	-0.00283	0.30164	0.66727	0.00255	0.82563
0.93257	-7.87307	1.84819	-0.48010	-1.23775	0.34822	-0.00287	0.31058	0.65928	0.00259	0.82687
0.95456	-7.98731	1.85954	-0.48156	-1.23517	0.36229	-0.00291	0.31910	0.65204	0.00279	0.82800
0.97704	-8.09519	1.87204	-0.48260	-1.23555	0.37947	-0.00295	0.33045	0.64427	0.00314	0.82880
1.00000	-8.19170	1.88540	-0.48347	-1.23961	0.39972	-0.00299	0.34687	0.63515	0.00359	0.82940
1.02354	-8.27408	1.89918	-0.48441	-1.24739	0.42256	-0.00303	0.37049	0.62400	0.00401	0.83053
1.04767	-8.34222	1.91301	-0.48565	-1.25841	0.44724	-0.00306	0.40264	0.61064	0.00436	0.83249
1.07227	-8.40077	1.92674	-0.48720	-1.27155	0.47289	-0.00309	0.44224	0.59582	0.00464	0.83504
1.09745	-8.45833	1.94048	-0.48891	-1.28536	0.49832	-0.00312	0.48617	0.58067	0.00493	0.83763
1.12334	-8.52642	1.95424	-0.49058	-1.29760	0.52042	-0.00314	0.52872	0.56650	0.00533	0.83939
1.14982	-8.61464	1.96785	-0.49202	-1.30606	0.53616	-0.00315	0.56352	0.55439	0.00594	0.83971
1.17675	-8.72790	1.98106	-0.49306	-1.30936	0.54469	-0.00315	0.58642	0.54469	0.00671	0.83880
1.20453	-8.86634	1.99383	-0.49365	-1.30759	0.54705	-0.00314	0.59857	0.53660	0.00754	0.83728
1.23289	-9.02116	2.00581	-0.49381	-1.30206	0.54493	-0.00313	0.60510	0.52889	0.00834	0.83556
1.26183	-9.18315	2.01707	-0.49368	-1.29470	0.54050	-0.00311	0.61245	0.52027	0.00914	0.83348
1.29149	-9.34697	2.02796	-0.49333	-1.28700	0.53586	-0.00309	0.62487	0.51006	0.00998	0.83072
1.32188	-9.51047	2.03876	-0.49277	-1.27953	0.53221	-0.00308	0.64352	0.49832	0.01082	0.82770
1.35300	-9.67138	2.04966	-0.49193	-1.27272	0.53071	-0.00307	0.66986	0.48517	0.01153	0.82554
1.38485	-9.82805	2.06074	-0.49071	-1.26682	0.53183	-0.00308	0.70502	0.47079	0.01196	0.82533
1.41743	-9.97868	2.07208	-0.48908	-1.26219	0.53578	-0.00309	0.75059	0.45534	0.01209	0.82759
1.45075	-10.12427	2.08377	-0.48705	-1.25867	0.54188	-0.00311	0.80564	0.43938	0.01201	0.83181
1.48500	-10.26834	2.09594	-0.48466	-1.25575	0.54947	-0.00314	0.86773	0.42347	0.01190	0.83681
1.51999	-10.41234	2.10854	-0.48197	-1.25295	0.55811	-0.00316	0.93293	0.40833	0.01187	0.84185
1.55569	-10.55783	2.12153	-0.47902	-1.24982	0.56738	-0.00319	0.99722	0.39449	0.01188	0.84705
1.59236	-10.70552	2.13501	-0.47587	-1.24631	0.57698	-0.00323	1.05834	0.38214	0.01190	0.85278
1.62973	-10.85402	2.14887	-0.47262	-1.24247	0.58635	-0.00326	1.11343	0.37154	0.01189	0.85919
1.66806	-11.00401	2.16313	-0.46934	-1.23814	0.59508	-0.00328	1.16039	0.36273	0.01179	0.86661
1.70736	-11.15440	2.17769	-0.46613	-1.23336	0.60314	-0.00331	1.19757	0.35578	0.01153	0.87559
1.74764	-11.30384	2.19246	-0.46310	-1.22828	0.61074	-0.00333	1.22398	0.35070	0.01106	0.88646
1.78859	-11.45046	2.20725	-0.46032	-1.22300	0.61796	-0.00335	1.23854	0.34750	0.01037	0.89912
1.83083	-11.59586	2.22223	-0.45779	-1.21751	0.62480	-0.00337	1.24156	0.34608	0.00948	0.91351
1.87371	-11.73682	2.23713	-0.45556	-1.21211	0.63094	-0.00338	1.23454	0.34625	0.00846	0.92899
1.91791	-11.87481	2.25218	-0.45362	-1.20695	0.63627	-0.00340	1.21928	0.34782	0.00737	0.94520
1.96309	-12.00822	2.26724	-0.45199	-1.20225	0.64064	-0.00340	1.19772	0.35054	0.00630	0.96135

2.00924	-12.13613	2.28229	-0.45068	-1.19830	0.64425	-0.00340	1.17274	0.35409	0.00532	0.97675
2.05634	-12.25740	2.29728	-0.44965	-1.19542	0.64745	-0.00340	1.14777	0.35803	0.00449	0.99077
2.10482	-12.37149	2.31233	-0.44888	-1.19403	0.65074	-0.00339	1.12650	0.36190	0.00383	1.00305
2.15424	-12.47654	2.32722	-0.44836	-1.19432	0.65431	-0.00337	1.11146	0.36531	0.00333	1.01332
2.20507	-12.57241	2.34204	-0.44804	-1.19655	0.65857	-0.00335	1.10510	0.36788	0.00296	1.02182
2.25683	-12.65843	2.35661	-0.44789	-1.20065	0.66359	-0.00333	1.10823	0.36942	0.00267	1.02884
2.31000	-12.73753	2.37107	-0.44786	-1.20624	0.66912	-0.00330	1.11916	0.37004	0.00241	1.03484
2.36463	-12.81169	2.38537	-0.44792	-1.21290	0.67510	-0.00327	1.13687	0.36974	0.00218	1.03996
2.42014	-12.88251	2.39935	-0.44799	-1.22014	0.68159	-0.00324	1.16017	0.36853	0.00202	1.04404
2.47709	-12.95327	2.41318	-0.44798	-1.22768	0.68874	-0.00322	1.18879	0.36635	0.00198	1.04693
2.53550	-13.02590	2.42690	-0.44776	-1.23531	0.69672	-0.00320	1.22250	0.36322	0.00210	1.04845
2.59471	-13.10035	2.44045	-0.44723	-1.24298	0.70542	-0.00318	1.26191	0.35910	0.00241	1.04868
2.65604	-13.17707	2.45412	-0.44628	-1.25133	0.71562	-0.00317	1.31199	0.35359	0.00293	1.04768
2.71887	-13.25192	2.46763	-0.44489	-1.26091	0.72769	-0.00316	1.37783	0.34641	0.00361	1.04590
2.78242	-13.32330	2.48080	-0.44307	-1.27175	0.74145	-0.00316	1.46114	0.33768	0.00445	1.04373
2.84819	-13.39337	2.49386	-0.44072	-1.28393	0.75683	-0.00315	1.56527	0.32739	0.00542	1.04161
2.91545	-13.46279	2.50665	-0.43788	-1.29682	0.77299	-0.00315	1.68781	0.31607	0.00649	1.04002
2.98329	-13.53347	2.51904	-0.43449	-1.30980	0.78967	-0.00314	1.82530	0.30424	0.00762	1.03902
3.05344	-13.60796	2.53133	-0.43055	-1.32275	0.80721	-0.00314	1.97871	0.29195	0.00883	1.03864
3.12598	-13.69016	2.54354	-0.42591	-1.33511	0.82566	-0.00314	2.14571	0.27941	0.01014	1.03843
3.19898	-13.77964	2.55526	-0.42075	-1.34583	0.84355	-0.00315	2.31634	0.26722	0.01147	1.03827
3.27439	-13.88135	2.56679	-0.41487	-1.35480	0.86095	-0.00316	2.49276	0.25508	0.01287	1.03767
3.35121	-13.99304	2.57776	-0.40847	-1.36159	0.87713	-0.00317	2.66936	0.24326	0.01424	1.03687
3.43053	-14.11740	2.58831	-0.40146	-1.36619	0.89234	-0.00318	2.84638	0.23166	0.01557	1.03589
3.51124	-14.24809	2.59822	-0.39416	-1.36903	0.90638	-0.00320	3.02129	0.22052	0.01673	1.03556
3.59324	-14.38594	2.60748	-0.38650	-1.37018	0.91946	-0.00322	3.19262	0.20990	0.01772	1.03600
3.67782	-14.52868	2.61639	-0.37870	-1.37009	0.93118	-0.00324	3.35967	0.19984	0.01848	1.03799
3.76506	-14.67780	2.62474	-0.37056	-1.36877	0.94201	-0.00326	3.51846	0.19056	0.01900	1.04164
3.85356	-14.82699	2.63299	-0.36247	-1.36685	0.95151	-0.00328	3.66904	0.18204	0.01932	1.04694
3.94477	-14.97991	2.64061	-0.35421	-1.36390	0.95991	-0.00330	3.80153	0.17472	0.01943	1.05356
4.03714	-15.13209	2.64839	-0.34599	-1.36068	0.96706	-0.00332	3.92296	0.16822	0.01939	1.06109
4.13223	-15.28357	2.65571	-0.33790	-1.35702	0.97308	-0.00334	4.02372	0.16294	0.01922	1.06921
4.23012	-15.43658	2.66293	-0.32969	-1.35300	0.97816	-0.00335	4.10574	0.15873	0.01894	1.07749
4.32900	-15.58565	2.67044	-0.32186	-1.34909	0.98222	-0.00337	4.17055	0.15543	0.01860	1.08548
4.43066	-15.73380	2.67694	-0.31422	-1.34451	0.98528	-0.00338	4.20251	0.15357	0.01815	1.09328
4.53515	-15.88316	2.68423	-0.30664	-1.34000	0.98768	-0.00339	4.21941	0.15240	0.01763	1.10093
4.64253	-16.02922	2.69131	-0.29947	-1.33555	0.98957	-0.00340	4.21646	0.15208	0.01704	1.10858
4.75059	-16.17076	2.69729	-0.29259	-1.33076	0.99079	-0.00340	4.18449	0.15299	0.01629	1.11635
4.86145	-16.31403	2.70469	-0.28582	-1.32636	0.99172	-0.00341	4.14554	0.15423	0.01550	1.12408
4.97760	-16.45530	2.71142	-0.27935	-1.32182	0.99242	-0.00341	4.09058	0.15614	0.01464	1.13198
5.09424	-16.59167	2.71702	-0.27314	-1.31695	0.99270	-0.00341	4.01541	0.15892	0.01368	1.14001
5.21376	-16.73195	2.72462	-0.26693	-1.31258	0.99296	-0.00341	3.94097	0.16174	0.01273	1.14781
5.33618	-16.86551	2.73134	-0.26116	-1.30846	0.99329	-0.00341	3.86594	0.16469	0.01182	1.15538
5.46150	-16.99299	2.73625	-0.25557	-1.30403	0.99339	-0.00341	3.77933	0.16825	0.01084	1.16327
5.58971	-17.12658	2.74352	-0.24981	-1.30013	0.99358	-0.00341	3.69615	0.17178	0.00988	1.17108
5.72082	-17.25739	2.75131	-0.24434	-1.29683	0.99398	-0.00341	3.62235	0.17502	0.00902	1.17864
5.85823	-17.37649	2.75565	-0.23922	-1.29324	0.99418	-0.00340	3.54379	0.17863	0.00812	1.18681
5.99520	-17.49725	2.76136	-0.23400	-1.29005	0.99431	-0.00340	3.46722	0.18228	0.00723	1.19501
6.13497	-17.62590	2.77006	-0.22861	-1.28755	0.99470	-0.00339	3.39944	0.18563	0.00644	1.20295
6.28141	-17.74258	2.77604	-0.22379	-1.28517	0.99514	-0.00339	3.33798	0.18877	0.00570	1.21103
6.42674	-17.84428	2.77896	-0.21939	-1.28268	0.99528	-0.00339	3.27638	0.19202	0.00494	1.21930
6.57895	-17.96015	2.78517	-0.21442	-1.28059	0.99556	-0.00338	3.21561	0.19534	0.00420	1.22779
6.73401	-18.08591	2.79463	-0.20921	-1.27911	0.99619	-0.00337	3.16258	0.19832	0.00355	1.23594
6.89180	-18.18805	2.79920	-0.20507	-1.27761	0.99672	-0.00336	3.11809	0.20089	0.00297	1.24400
7.05716	-18.27823	2.80043	-0.20124	-1.27591	0.99693	-0.00336	3.07225	0.20362	0.00234	1.25254
7.22022	-18.37910	2.80512	-0.19695	-1.27465	0.99733	-0.00335	3.02878	0.20627	0.00176	1.26059
7.39098	-18.49961	2.81433	-0.19193	-1.27384	0.99810	-0.00334	2.98717	0.20887	0.00123	1.26836
7.56430	-18.60332	2.82055	-0.18787	-1.27315	0.99890	-0.00333	2.95487	0.21095	0.00078	1.27547
7.73994	-18.66949	2.81851	-0.18535	-1.27212	0.99915	-0.00333	2.92749	0.21277	0.00033	1.28235
7.92393	-18.74896	2.81915	-0.18216	-1.27130	0.99951	-0.00332	2.89805	0.21477	-0.00013	1.28898
8.11030	-18.84279	2.82335	-0.17833	-1.27080	1.00012	-0.00331	2.86870	0.21680	-0.00057	1.29502
8.29876	-18.95780	2.83268	-0.17363	-1.27066	1.00110	-0.00330	2.83969	0.21882	-0.00097	1.30039
8.49618	-19.03740	2.83450	-0.17088	-1.27036	1.00180	-0.00329	2.82107	0.22019	-0.00129	1.30536
8.69565	-19.07211	2.82700	-0.17023	-1.26981	1.00191	-0.00329	2.81023	0.22110	-0.00159	1.31022
8.90472	-19.12780	2.82378	-0.16853	-1.26952	1.00229	-0.00328	2.79611	0.22224	-0.00192	1.31507
9.11577	-19.19068	2.82249	-0.16650	-1.26942	1.00280	-0.00327	2.78225	0.22338	-0.00223	1.31976
9.32836	-19.28544	2.82807	-0.16277	-1.26958	1.00367	-0.00326	2.76258	0.22491	-0.00256	1.32446
9.54198	-19.36944	2.83207	-0.15986	-1.26977	1.00454	-0.00325	2.74865	0.22604	-0.00281	1.32898
9.76563	-19.37480	2.82017	-0.16149	-1.26965	1.00475	-0.00325	2.75466	0.22586	-0.00293	1.33364
10.00000	-19.37248	2.80669	-0.16364	-1.26965	1.00502	-0.00325	2.76350	0.22552	-0.00305	1.33892

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
High stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 610 - 1220 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-3.41353	2.61947	-0.18235	-2.52672	0.78476	-0.00074	6.09748	0.31049	0.00932	0.32994
PGV	8.06127	2.00099	-0.12865	-3.65297	0.92506	0.00032	16.90377	0.25476	-0.00777	0.45487
PGA	4.50482	1.60527	-0.07282	-3.14691	0.38609	-0.00032	7.56508	0.45150	-0.03149	0.80461
0.01000	4.46287	1.61555	-0.06997	-3.13655	0.36239	-0.00033	7.55791	0.45641	-0.01644	0.75555
0.01024	4.47074	1.61587	-0.06972	-3.13771	0.36167	-0.00033	7.56336	0.45655	-0.01649	0.75611
0.01048	4.48192	1.61619	-0.06945	-3.13944	0.36110	-0.00033	7.57384	0.45660	-0.01654	0.75665
0.01072	4.49640	1.61650	-0.06918	-3.14174	0.36066	-0.00032	7.58928	0.45658	-0.01660	0.75718
0.01097	4.51423	1.61682	-0.06890	-3.14463	0.36034	-0.00032	7.60972	0.45648	-0.01667	0.75770
0.01123	4.53557	1.61714	-0.06860	-3.14811	0.36014	-0.00032	7.63531	0.45631	-0.01674	0.75821
0.01150	4.56064	1.61748	-0.06828	-3.15223	0.36003	-0.00032	7.66636	0.45606	-0.01681	0.75872
0.01177	4.58976	1.61783	-0.06795	-3.15705	0.36003	-0.00031	7.70333	0.45573	-0.01690	0.75925
0.01205	4.62347	1.61820	-0.06759	-3.16266	0.36015	-0.00031	7.74697	0.45532	-0.01699	0.75980
0.01233	4.66226	1.61861	-0.06720	-3.16914	0.36037	-0.00030	7.79797	0.45481	-0.01710	0.76038
0.01262	4.70650	1.61905	-0.06678	-3.17656	0.36069	-0.00029	7.85696	0.45420	-0.01721	0.76101
0.01292	4.75666	1.61954	-0.06633	-3.18498	0.36114	-0.00029	7.92461	0.45350	-0.01734	0.76169
0.01322	4.81334	1.62007	-0.06584	-3.19451	0.36172	-0.00028	8.00189	0.45269	-0.01749	0.76245
0.01353	4.87746	1.62066	-0.06530	-3.20529	0.36243	-0.00027	8.09017	0.45176	-0.01764	0.76329
0.01385	4.95055	1.62132	-0.06471	-3.21761	0.36326	-0.00026	8.19179	0.45068	-0.01782	0.76426
0.01417	5.03371	1.62204	-0.06406	-3.23162	0.36420	-0.00025	8.30852	0.44946	-0.01802	0.76537
0.01451	5.12629	1.62283	-0.06334	-3.24719	0.36521	-0.00023	8.43964	0.44810	-0.01824	0.76667
0.01485	5.22877	1.62370	-0.06254	-3.26437	0.36633	-0.00022	8.58603	0.44661	-0.01849	0.76819
0.01520	5.34295	1.62469	-0.06164	-3.28350	0.36761	-0.00020	8.75062	0.44498	-0.01877	0.76995
0.01556	5.46908	1.62579	-0.06065	-3.30458	0.36907	-0.00019	8.93417	0.44320	-0.01908	0.77199
0.01592	5.60695	1.62698	-0.05956	-3.32755	0.37069	-0.00017	9.13672	0.44129	-0.01943	0.77435
0.01630	5.75634	1.62825	-0.05835	-3.35231	0.37246	-0.00015	9.35865	0.43927	-0.01982	0.77707
0.01668	5.91622	1.62956	-0.05704	-3.37863	0.37434	-0.00013	9.59900	0.43715	-0.02026	0.78013
0.01707	6.08340	1.63086	-0.05562	-3.40590	0.37617	-0.00011	9.85263	0.43501	-0.02073	0.78352
0.01748	6.25740	1.63219	-0.05406	-3.43404	0.37776	-0.00009	10.11790	0.43289	-0.02123	0.78719
0.01789	6.43941	1.63372	-0.05236	-3.46337	0.37916	-0.00007	10.39633	0.43082	-0.02175	0.79101
0.01831	6.62640	1.63542	-0.05051	-3.49329	0.38034	-0.00005	10.68361	0.42882	-0.02229	0.79506
0.01874	6.82081	1.63726	-0.04854	-3.52423	0.38128	-0.00003	10.98361	0.42687	-0.02289	0.79948
0.01918	7.02496	1.63925	-0.04648	-3.55663	0.38214	-0.00001	11.30124	0.42491	-0.02350	0.80405
0.01963	7.22969	1.64133	-0.04437	-3.58882	0.38285	0.00001	11.62263	0.42306	-0.02409	0.80847
0.02009	7.42059	1.64350	-0.04227	-3.61841	0.38267	0.00002	11.92023	0.42159	-0.02462	0.81254
0.02057	7.58647	1.64559	-0.04019	-3.64340	0.38117	0.00004	12.17330	0.42065	-0.02513	0.81650
0.02105	7.72583	1.64733	-0.03806	-3.66326	0.37916	0.00005	12.38414	0.42015	-0.02564	0.82055
0.02154	7.85100	1.64904	-0.03587	-3.68030	0.37727	0.00005	12.57441	0.41989	-0.02611	0.82435
0.02205	7.96323	1.65112	-0.03366	-3.69510	0.37511	0.00005	12.74169	0.41994	-0.02645	0.82738
0.02257	8.04629	1.65361	-0.03143	-3.70509	0.37208	0.00004	12.85187	0.42059	-0.02663	0.82935
0.02310	8.07450	1.65613	-0.02911	-3.70577	0.36824	0.00002	12.85925	0.42217	-0.02678	0.83106
0.02364	8.03615	1.65868	-0.02667	-3.69509	0.36377	-0.00001	12.74433	0.42485	-0.02699	0.83320
0.02420	7.95777	1.66194	-0.02419	-3.67815	0.35990	-0.00005	12.55570	0.42824	-0.02722	0.83548
0.02477	7.87667	1.66613	-0.02180	-3.66164	0.35744	-0.00009	12.36242	0.43172	-0.02742	0.83746
0.02535	7.80559	1.67064	-0.01957	-3.64730	0.35482	-0.00014	12.18627	0.43507	-0.02752	0.83876
0.02595	7.72719	1.67470	-0.01744	-3.63151	0.34989	-0.00017	11.99386	0.43862	-0.02751	0.83923
0.02656	7.63365	1.67793	-0.01533	-3.61255	0.34232	-0.00020	11.77412	0.44248	-0.02747	0.83952
0.02719	7.53374	1.68038	-0.01328	-3.59186	0.33347	-0.00023	11.54785	0.44642	-0.02747	0.84002
0.02783	7.42706	1.68273	-0.01135	-3.57014	0.32556	-0.00025	11.31469	0.45040	-0.02741	0.84017
0.02848	7.29233	1.68571	-0.00942	-3.54450	0.31934	-0.00029	11.03428	0.45489	-0.02730	0.84004
0.02915	7.09429	1.68927	-0.00734	-3.50871	0.31255	-0.00034	10.64462	0.46072	-0.02708	0.83929
0.02984	6.81006	1.69253	-0.00502	-3.45801	0.30325	-0.00040	10.11559	0.46841	-0.02683	0.83851
0.03054	6.47552	1.69536	-0.00258	-3.39851	0.29246	-0.00046	9.51871	0.47728	-0.02654	0.83764
0.03126	6.14318	1.69765	-0.00022	-3.33922	0.28117	-0.00052	8.94590	0.48625	-0.02606	0.83557
0.03199	5.82397	1.69904	0.00200	-3.28145	0.26926	-0.00058	8.41645	0.49505	-0.02549	0.83294
0.03275	5.52909	1.70010	0.00411	-3.22749	0.25788	-0.00063	7.94109	0.50350	-0.02511	0.83164
0.03352	5.27253	1.70125	0.00603	-3.18037	0.24856	-0.00068	7.53244	0.51129	-0.02504	0.83250
0.03430	5.06983	1.70255	0.00762	-3.14286	0.24112	-0.00071	7.20905	0.51791	-0.02512	0.83435
0.03511	4.90469	1.70472	0.00904	-3.11245	0.23458	-0.00075	6.94601	0.52377	-0.02523	0.83631
0.03594	4.74849	1.70858	0.01058	-3.08472	0.22886	-0.00079	6.70389	0.52959	-0.02534	0.83827
0.03678	4.59851	1.71347	0.01211	-3.05894	0.22374	-0.00083	6.47674	0.53534	-0.02535	0.83977
0.03765	4.42652	1.71714	0.01352	-3.02860	0.21728	-0.00086	6.22509	0.54162	-0.02518	0.84007
0.03854	4.20076	1.71955	0.01500	-2.98821	0.20844	-0.00091	5.90804	0.54942	-0.02473	0.83848
0.03944	3.92032	1.72137	0.01665	-2.93831	0.19809	-0.00095	5.52860	0.55896	-0.02405	0.83538
0.04037	3.61993	1.72226	0.01824	-2.88469	0.18829	-0.00100	5.13820	0.56918	-0.02331	0.83188
0.04132	3.35458	1.72182	0.01939	-2.83632	0.17988	-0.00104	4.80452	0.57841	-0.02286	0.83015
0.04229	3.13681	1.72012	0.01996	-2.79523	0.17031	-0.00106	4.53342	0.58639	-0.02272	0.83036
0.04329	2.94841	1.71801	0.02010	-2.75867	0.15777	-0.00107	4.29716	0.59394	-0.02254	0.83005
0.04431	2.77527	1.71695	0.02020	-2.72540	0.14553	-0.00108	4.08238	0.60138	-0.02212	0.82795
0.04535	2.63283	1.71796	0.02034	-2.69944	0.13722	-0.00110	3.90709	0.60789	-0.02158	0.82477

0.04642	2.51276	1.71994	0.02031	-2.67868	0.13065	-0.00111	3.75871	0.61370	-0.02097	0.82102
0.04751	2.37521	1.72147	0.02026	-2.65486	0.12139	-0.00111	3.59137	0.62041	-0.02040	0.81750
0.04863	2.20868	1.72233	0.02034	-2.62560	0.10957	-0.00111	3.39751	0.62841	-0.02003	0.81553
0.04977	2.03241	1.72281	0.02047	-2.59421	0.09758	-0.00111	3.20352	0.63681	-0.01970	0.81399
0.05094	1.87219	1.72376	0.02032	-2.56578	0.08685	-0.00112	3.03256	0.64474	-0.01919	0.81117
0.05214	1.75858	1.72619	0.01958	-2.54676	0.07914	-0.00112	2.90732	0.65108	-0.01849	0.80700
0.05337	1.66984	1.72937	0.01848	-2.53265	0.07416	-0.00113	2.80960	0.65634	-0.01764	0.80168
0.05462	1.58150	1.73122	0.01721	-2.51745	0.07042	-0.00113	2.71982	0.66115	-0.01686	0.79674
0.05591	1.47626	1.73066	0.01599	-2.49754	0.06541	-0.00114	2.61839	0.66640	-0.01631	0.79327
0.05722	1.32430	1.72860	0.01538	-2.46862	0.05787	-0.00115	2.48049	0.67358	-0.01597	0.79103
0.05857	1.13989	1.72582	0.01528	-2.43362	0.04971	-0.00117	2.32349	0.68209	-0.01599	0.79099
0.05995	0.96785	1.72237	0.01507	-2.40024	0.04422	-0.00120	2.18454	0.68984	-0.01622	0.79237
0.06136	0.82396	1.71933	0.01470	-2.37209	0.04277	-0.00123	2.07408	0.69615	-0.01623	0.79243
0.06280	0.70513	1.71765	0.01426	-2.34925	0.04548	-0.00126	1.98894	0.70113	-0.01597	0.79088
0.06428	0.60818	1.71781	0.01359	-2.33121	0.04859	-0.00130	1.92434	0.70525	-0.01556	0.78872
0.06579	0.52371	1.71914	0.01259	-2.31607	0.04921	-0.00133	1.86979	0.70910	-0.01500	0.78587
0.06734	0.45422	1.71955	0.01092	-2.30337	0.04861	-0.00134	1.82310	0.71235	-0.01432	0.78241
0.06893	0.40370	1.71862	0.00840	-2.29351	0.04856	-0.00134	1.78551	0.71471	-0.01360	0.77891
0.07055	0.34744	1.71596	0.00537	-2.28142	0.04860	-0.00135	1.74137	0.71738	-0.01292	0.77589
0.07221	0.25039	1.71191	0.00243	-2.26123	0.04805	-0.00135	1.67018	0.72203	-0.01251	0.77469
0.07391	0.11108	1.70825	0.00006	-2.23412	0.04706	-0.00137	1.57564	0.72885	-0.01230	0.77480
0.07565	-0.04413	1.70414	-0.00185	-2.20352	0.04344	-0.00139	1.47587	0.73670	-0.01221	0.77541
0.07743	-0.19009	1.69775	-0.00404	-2.17205	0.03468	-0.00139	1.38313	0.74454	-0.01212	0.77587
0.07925	-0.30614	1.68950	-0.00704	-2.14418	0.02207	-0.00138	1.30633	0.75134	-0.01202	0.77612
0.08111	-0.37779	1.68256	-0.01051	-2.12565	0.01150	-0.00135	1.25500	0.75593	-0.01202	0.77688
0.08302	-0.40950	1.67907	-0.01399	-2.11751	0.00542	-0.00133	1.22762	0.75830	-0.01209	0.77799
0.08498	-0.44715	1.67821	-0.01703	-2.11076	-0.00158	-0.00130	1.19668	0.76149	-0.01205	0.77866
0.08697	-0.53036	1.67579	-0.01959	-2.09451	-0.01314	-0.00127	1.14098	0.76760	-0.01184	0.77874
0.08902	-0.65803	1.67010	-0.02163	-2.06733	-0.02467	-0.00126	1.06756	0.77567	-0.01168	0.77924
0.09112	-0.79551	1.66332	-0.02322	-2.03737	-0.03107	-0.00128	0.99701	0.78349	-0.01143	0.77893
0.09326	-0.91999	1.65801	-0.02457	-2.01109	-0.03231	-0.00130	0.93824	0.79017	-0.01094	0.77697
0.09545	-1.02367	1.65353	-0.02620	-1.98943	-0.03202	-0.00132	0.88988	0.79585	-0.01006	0.77247
0.09770	-1.09581	1.64808	-0.02891	-1.97269	-0.03293	-0.00133	0.85435	0.79982	-0.00882	0.76571
0.10000	-1.14084	1.64265	-0.03246	-1.96121	-0.03406	-0.00133	0.83057	0.80201	-0.00768	0.75992
0.10235	-1.17158	1.63957	-0.03600	-1.95471	-0.02975	-0.00134	0.81645	0.80257	-0.00717	0.75861
0.10476	-1.19723	1.63926	-0.03932	-1.95155	-0.01878	-0.00137	0.80975	0.80188	-0.00742	0.76232
0.10723	-1.20844	1.64023	-0.04290	-1.95177	-0.00595	-0.00140	0.81194	0.79987	-0.00806	0.76863
0.10975	-1.20201	1.63922	-0.04705	-1.95288	0.00425	-0.00143	0.82191	0.79655	-0.00877	0.77519
0.11233	-1.20403	1.63507	-0.05153	-1.94944	0.01005	-0.00144	0.82769	0.79374	-0.00935	0.78039
0.11498	-1.21093	1.62978	-0.05626	-1.94455	0.01499	-0.00145	0.82989	0.79131	-0.00967	0.78331
0.11768	-1.23000	1.62488	-0.06076	-1.93795	0.01920	-0.00146	0.82512	0.79009	-0.00965	0.78409
0.12045	-1.28802	1.62006	-0.06448	-1.92393	0.01587	-0.00146	0.80117	0.79257	-0.00943	0.78401
0.12328	-1.38370	1.61487	-0.06771	-1.90251	0.00357	-0.00144	0.75985	0.79864	-0.00932	0.78501
0.12619	-1.48639	1.61003	-0.07102	-1.88022	-0.01177	-0.00141	0.71794	0.80529	-0.00927	0.78611
0.12916	-1.56745	1.60814	-0.07453	-1.86505	-0.02120	-0.00140	0.68890	0.80977	-0.00894	0.78456
0.13219	-1.62129	1.60963	-0.07814	-1.85867	-0.02075	-0.00140	0.67385	0.81151	-0.00833	0.78068
0.13531	-1.64454	1.61255	-0.08198	-1.85938	-0.01181	-0.00142	0.67410	0.81004	-0.00781	0.77754
0.13849	-1.66169	1.61623	-0.08557	-1.86175	0.00458	-0.00146	0.68152	0.80696	-0.00759	0.77684
0.14175	-1.68820	1.61980	-0.08883	-1.86233	0.02338	-0.00150	0.68648	0.80423	-0.00725	0.77557
0.14508	-1.72265	1.62168	-0.09241	-1.86019	0.03430	-0.00153	0.68275	0.80330	-0.00683	0.77324
0.14850	-1.78961	1.61998	-0.09650	-1.84899	0.03104	-0.00152	0.65992	0.80622	-0.00657	0.77128
0.15199	-1.90914	1.61479	-0.10043	-1.82482	0.02033	-0.00150	0.61637	0.81341	-0.00645	0.76953
0.15557	-2.05575	1.60763	-0.10391	-1.79317	0.00898	-0.00150	0.56554	0.82282	-0.00639	0.76766
0.15923	-2.18895	1.60110	-0.10728	-1.76381	-0.00242	-0.00150	0.52072	0.83211	-0.00632	0.76589
0.16298	-2.27423	1.59638	-0.11116	-1.74483	-0.01143	-0.00148	0.49228	0.83819	-0.00618	0.76397
0.16681	-2.31092	1.59345	-0.11569	-1.73630	-0.01653	-0.00146	0.48143	0.83990	-0.00598	0.76208
0.17074	-2.33198	1.59195	-0.12044	-1.73143	-0.02049	-0.00144	0.47829	0.83974	-0.00588	0.76101
0.17475	-2.35546	1.59109	-0.12504	-1.72604	-0.02637	-0.00142	0.47557	0.83979	-0.00579	0.76025
0.17887	-2.39886	1.58905	-0.12936	-1.71595	-0.03460	-0.00140	0.46576	0.84170	-0.00563	0.75939
0.18307	-2.47544	1.58479	-0.13336	-1.69848	-0.04203	-0.00140	0.44469	0.84628	-0.00564	0.76020
0.18738	-2.58058	1.57996	-0.13711	-1.67594	-0.04743	-0.00141	0.41596	0.85304	-0.00572	0.76200
0.19179	-2.69735	1.57624	-0.14051	-1.65257	-0.05056	-0.00144	0.38797	0.86003	-0.00563	0.76264
0.19631	-2.80305	1.57348	-0.14381	-1.63213	-0.05334	-0.00146	0.36696	0.86522	-0.00525	0.76172
0.20092	-2.87248	1.57199	-0.14767	-1.61949	-0.05472	-0.00147	0.35755	0.86667	-0.00446	0.75868
0.20565	-2.89394	1.57109	-0.15255	-1.61643	-0.05238	-0.00147	0.36060	0.86354	-0.00338	0.75424
0.21049	-2.88989	1.56982	-0.15816	-1.61803	-0.04925	-0.00146	0.36956	0.85814	-0.00239	0.75031
0.21544	-2.89076	1.56832	-0.16412	-1.61814	-0.04836	-0.00145	0.37856	0.85278	-0.00169	0.74773
0.22051	-2.90750	1.56750	-0.17004	-1.61523	-0.04657	-0.00145	0.38649	0.84792	-0.00106	0.74516
0.22570	-2.93490	1.56756	-0.17554	-1.61082	-0.04021	-0.00149	0.39334	0.84341	-0.00043	0.74254
0.23101	-2.96789	1.56888	-0.18040	-1.60668	-0.02747	-0.00154	0.39879	0.83936	0.00007	0.74055
0.23645	-3.00336	1.57003	-0.18485	-1.60215	-0.01120	-0.00159	0.40253	0.83577	0.00052	0.73900
0.24201	-3.04341	1.56949	-0.18908	-1.59503	0.00216	-0.00164	0.40326	0.83315	0.00091	0.73800
0.24771	-3.08349	1.56983	-0.19323	-1.58885	0.01420	-0.00168	0.40425	0.83056	0.00130	0.73731
0.25354	-3.10839	1.57223	-0.19773	-1.58831	0.02947	-0.00173	0.41043	0.82621	0.00173	0.73695
0.25950	-3.11922	1.57484	-0.20284	-1.59138	0.04496	-0.00176	0.42020	0.82063	0.00219	0.73676
0.26561	-3.13934	1.57712	-0.20827	-1.59246	0.05735	-0.00178	0.42815	0.81574	0.00285	0.73512
0.27186	-3.17115	1.57817	-0.21400	-1.58984	0.06814	-0.00181	0.43448	0.81119	0.00361	0.73240
0.27826	-3.20802	1.57732	-0.22004	-1.58418	0.07797	-0.00184	0.43865	0.80696	0.00443	0.72883
0.28480	-3.25611	1.57589	-0.22614	-1.57604	0.08660	-0.00187	0.43642	0.80446	0.00541	0.72386
0.29150	-3.30542	1.57670	-0.23214	-1.57034	0.09703	-0.00190	0.43364	0.80234	0.00630	0.71941
0.29836	-3.35458	1.58073	-0.23782	-1.56804	0.10931	-0.00192	0.43334	0.80000	0.00674	0.71771

0.30539	-3.41082	1.58630	-0.24297	-1.56573	0.12132	-0.00195	0.43200	0.79837	0.00664	0.71922
0.31257	-3.47005	1.59128	-0.24781	-1.56224	0.12968	-0.00197	0.42834	0.79754	0.00627	0.72226
0.31993	-3.53807	1.59437	-0.25258	-1.55553	0.12861	-0.00196	0.41901	0.79841	0.00588	0.72552
0.32745	-3.60991	1.59524	-0.25749	-1.54616	0.11857	-0.00192	0.40668	0.80014	0.00546	0.72917
0.33517	-3.68336	1.59501	-0.26258	-1.53535	0.10686	-0.00188	0.39485	0.80162	0.00497	0.73346
0.34304	-3.77924	1.59473	-0.26757	-1.52000	0.09868	-0.00187	0.37780	0.80473	0.00460	0.73696
0.35112	-3.88327	1.59664	-0.27251	-1.50538	0.09956	-0.00189	0.36113	0.80781	0.00452	0.73838
0.35938	-3.94768	1.60218	-0.27786	-1.50240	0.11139	-0.00193	0.35987	0.80553	0.00454	0.73857
0.36784	-3.97018	1.60889	-0.28400	-1.50913	0.12496	-0.00194	0.37228	0.79837	0.00470	0.73754
0.37649	-3.98548	1.61379	-0.29063	-1.51553	0.13065	-0.00193	0.38486	0.79119	0.00507	0.73524
0.38536	-4.03290	1.61666	-0.29673	-1.51338	0.12941	-0.00191	0.38591	0.78789	0.00518	0.73494
0.39442	-4.13865	1.61797	-0.30168	-1.49806	0.12491	-0.00192	0.36912	0.79050	0.00469	0.73908
0.40370	-4.28818	1.61843	-0.30598	-1.47349	0.11849	-0.00195	0.34066	0.79748	0.00395	0.74541
0.41321	-4.42554	1.62005	-0.31060	-1.45296	0.11470	-0.00198	0.31932	0.80241	0.00351	0.75012
0.42292	-4.50651	1.62485	-0.31594	-1.44705	0.12168	-0.00201	0.31867	0.79951	0.00359	0.75154
0.43288	-4.53800	1.63235	-0.32163	-1.45350	0.14128	-0.00206	0.33597	0.78978	0.00402	0.75057
0.44307	-4.56947	1.64038	-0.32695	-1.46005	0.16463	-0.00212	0.35439	0.78009	0.00447	0.74928
0.45349	-4.64675	1.64782	-0.33145	-1.45666	0.18109	-0.00219	0.35662	0.77660	0.00470	0.74967
0.46417	-4.77409	1.65412	-0.33548	-1.44208	0.18433	-0.00224	0.33923	0.78054	0.00456	0.75339
0.47508	-4.92918	1.65825	-0.33979	-1.41976	0.17421	-0.00226	0.31031	0.78945	0.00407	0.76021
0.48626	-5.08667	1.65996	-0.34482	-1.39485	0.15781	-0.00227	0.28074	0.79924	0.00356	0.76702
0.49771	-5.22757	1.66092	-0.35036	-1.37314	0.14384	-0.00227	0.25862	0.80609	0.00334	0.77133
0.50942	-5.34549	1.66395	-0.35595	-1.35907	0.13759	-0.00227	0.24623	0.80856	0.00366	0.77191
0.52140	-5.44964	1.67071	-0.36117	-1.35253	0.13973	-0.00227	0.24022	0.80828	0.00450	0.76934
0.53367	-5.55588	1.67992	-0.36594	-1.34868	0.14697	-0.00229	0.23518	0.80788	0.00545	0.76623
0.54624	-5.66452	1.68893	-0.37060	-1.34420	0.15652	-0.00231	0.22981	0.80759	0.00602	0.76549
0.55910	-5.76510	1.69513	-0.37554	-1.33784	0.16692	-0.00234	0.22548	0.80613	0.00592	0.76914
0.57225	-5.85273	1.69794	-0.38106	-1.32955	0.17631	-0.00237	0.22331	0.80274	0.00534	0.77610
0.58569	-5.93206	1.69925	-0.38713	-1.32103	0.18418	-0.00240	0.22351	0.79738	0.00485	0.78246
0.59948	-6.00978	1.70189	-0.39351	-1.31500	0.19117	-0.00242	0.22639	0.79017	0.00495	0.78481
0.61357	-6.08842	1.70782	-0.39965	-1.31334	0.19897	-0.00244	0.23229	0.78156	0.00559	0.78378
0.62802	-6.17089	1.71653	-0.40513	-1.31463	0.20909	-0.00246	0.23968	0.77268	0.00632	0.78259
0.64280	-6.26413	1.72568	-0.40990	-1.31436	0.21944	-0.00249	0.24433	0.76548	0.00676	0.78354
0.65794	-6.37289	1.73393	-0.41411	-1.30976	0.22767	-0.00252	0.24387	0.76083	0.00692	0.78641
0.67340	-6.49670	1.74081	-0.41796	-1.30017	0.23274	-0.00256	0.23868	0.75844	0.00694	0.78987
0.68927	-6.63602	1.74624	-0.42158	-1.28547	0.23262	-0.00258	0.22927	0.75816	0.00701	0.79274
0.70547	-6.78730	1.75071	-0.42518	-1.26700	0.22390	-0.00259	0.21603	0.76029	0.00728	0.79421
0.72207	-6.94034	1.75538	-0.42892	-1.24837	0.20827	-0.00256	0.20189	0.76368	0.00770	0.79448
0.73910	-7.08257	1.76176	-0.43270	-1.23391	0.19391	-0.00253	0.19142	0.76573	0.00822	0.79372
0.75649	-7.20828	1.77065	-0.43621	-1.22574	0.18920	-0.00252	0.18717	0.76449	0.00896	0.79095
0.77429	-7.31331	1.78150	-0.43939	-1.22427	0.19931	-0.00254	0.19059	0.75846	0.00989	0.78597
0.79246	-7.39101	1.79309	-0.44244	-1.22928	0.22433	-0.00259	0.20330	0.74671	0.01071	0.78057
0.81116	-7.43802	1.80489	-0.44568	-1.24075	0.26216	-0.00267	0.22721	0.72911	0.01121	0.77636
0.83022	-7.46029	1.81679	-0.44928	-1.25750	0.30783	-0.00277	0.26170	0.70762	0.01159	0.77225
0.84976	-7.47495	1.82870	-0.45336	-1.27629	0.35379	-0.00286	0.30274	0.68521	0.01219	0.76628
0.86972	-7.50018	1.83992	-0.45774	-1.29257	0.39175	-0.00293	0.34329	0.66478	0.01286	0.75991
0.89023	-7.55022	1.84993	-0.46206	-1.30274	0.41581	-0.00297	0.37672	0.64790	0.01323	0.75615
0.91116	-7.62781	1.85871	-0.46603	-1.30625	0.42471	-0.00297	0.40065	0.63443	0.01328	0.75543
0.93257	-7.72252	1.86678	-0.46960	-1.30603	0.42328	-0.00294	0.42011	0.62236	0.01319	0.75636
0.95456	-7.82323	1.87447	-0.47275	-1.30470	0.41605	-0.00289	0.44074	0.61006	0.01304	0.75848
0.97704	-7.92808	1.88187	-0.47553	-1.30227	0.40457	-0.00282	0.46279	0.59773	0.01286	0.76165
1.00000	-8.03863	1.88956	-0.47791	-1.29875	0.39175	-0.00275	0.48470	0.58605	0.01269	0.76579
1.02354	-8.15441	1.89837	-0.47977	-1.29524	0.38215	-0.00270	0.50600	0.57534	0.01253	0.77068
1.04767	-8.27389	1.90859	-0.48109	-1.29236	0.37836	-0.00266	0.52640	0.56572	0.01245	0.77565
1.07227	-8.39244	1.91977	-0.48197	-1.29030	0.38105	-0.00264	0.54750	0.55669	0.01239	0.78086
1.09745	-8.50749	1.93161	-0.48262	-1.28909	0.39036	-0.00265	0.57097	0.54779	0.01233	0.78617
1.12334	-8.62057	1.94383	-0.48322	-1.28799	0.40497	-0.00268	0.59560	0.53920	0.01228	0.79114
1.14982	-8.73485	1.95592	-0.48385	-1.28580	0.42235	-0.00273	0.61763	0.53150	0.01214	0.79629
1.17675	-8.85737	1.96767	-0.48447	-1.28084	0.43909	-0.00279	0.63022	0.52581	0.01185	0.80200
1.20453	-8.99769	1.97948	-0.48498	-1.27184	0.45283	-0.00285	0.62746	0.52304	0.01158	0.80760
1.23289	-9.15610	1.99150	-0.48523	-1.25910	0.46276	-0.00292	0.60887	0.52332	0.01146	0.81227
1.26183	-9.32479	2.00383	-0.48523	-1.24462	0.47067	-0.00298	0.58239	0.52523	0.01162	0.81520
1.29149	-9.49154	2.01661	-0.48515	-1.23136	0.47883	-0.00304	0.55977	0.52645	0.01220	0.81539
1.32188	-9.64695	2.02994	-0.48503	-1.22142	0.48751	-0.00310	0.54866	0.52539	0.01308	0.81354
1.35300	-9.79015	2.04393	-0.48484	-1.21499	0.49537	-0.00314	0.54912	0.52216	0.01409	0.81101
1.38485	-9.92351	2.05866	-0.48446	-1.21175	0.50176	-0.00316	0.55793	0.51759	0.01516	0.80810
1.41743	-10.04658	2.07377	-0.48392	-1.21158	0.50706	-0.00317	0.57313	0.51208	0.01618	0.80559
1.45075	-10.15799	2.08851	-0.48338	-1.21393	0.51104	-0.00316	0.59369	0.50574	0.01688	0.80540
1.48500	-10.26176	2.10234	-0.48305	-1.21718	0.51226	-0.00312	0.61646	0.49904	0.01710	0.80868
1.51999	-10.36244	2.11511	-0.48303	-1.22010	0.50936	-0.00307	0.63854	0.49238	0.01703	0.81429
1.55569	-10.46073	2.12709	-0.48329	-1.22291	0.50280	-0.00301	0.66205	0.48531	0.01694	0.82015
1.59236	-10.55627	2.13866	-0.48361	-1.22617	0.49491	-0.00293	0.69068	0.47721	0.01697	0.82557
1.62973	-10.64927	2.15003	-0.48373	-1.22998	0.48838	-0.00287	0.72582	0.46806	0.01707	0.83095
1.66806	-10.74214	2.16149	-0.48351	-1.23432	0.48564	-0.00281	0.76844	0.45775	0.01719	0.83673
1.70736	-10.83821	2.17328	-0.48293	-1.23896	0.48823	-0.00278	0.81788	0.44645	0.01741	0.84222
1.74764	-10.94164	2.18568	-0.48200	-1.24349	0.49668	-0.00277	0.87219	0.43448	0.01789	0.84619
1.78859	-11.05202	2.19868	-0.48067	-1.24799	0.51132	-0.00279	0.93078	0.42207	0.01865	0.84843
1.83083	-11.16902	2.21234	-0.47876	-1.25279	0.53192	-0.00284	0.99576	0.40907	0.01950	0.85017
1.87371	-11.28876	2.22606	-0.47619	-1.25768	0.55634	-0.00290	1.06690	0.39575	0.02011	0.85360
1.91791	-11.41283	2.23971	-0.47289	-1.26221	0.58229	-0.00297	1.14479	0.38208	0.02025	0.86042
1.96309	-11.54127	2.25314	-0.46891	-1.26593	0.60712	-0.00303	1.22782	0.36838	0.01994	0.87049

2.00924	-11.67584	2.26644	-0.46431	-1.26851	0.62938	-0.00309	1.31429	0.35488	0.01934	0.88246
2.05634	-11.81693	2.27959	-0.45916	-1.26985	0.64880	-0.00315	1.40412	0.34151	0.01866	0.89471
2.10482	-11.96701	2.29266	-0.45351	-1.26958	0.66550	-0.00320	1.49573	0.32828	0.01803	0.90607
2.15424	-12.12422	2.30554	-0.44748	-1.26774	0.67957	-0.00324	1.58764	0.31534	0.01753	0.91567
2.20507	-12.28823	2.31855	-0.44104	-1.26487	0.69147	-0.00328	1.68207	0.30259	0.01723	0.92318
2.25683	-12.45356	2.33182	-0.43426	-1.26217	0.70243	-0.00332	1.78258	0.29009	0.01717	0.92815
2.31000	-12.61447	2.34565	-0.42713	-1.26152	0.71505	-0.00335	1.90140	0.27731	0.01741	0.93019
2.36463	-12.76659	2.35995	-0.41975	-1.26365	0.73028	-0.00337	2.04562	0.26419	0.01786	0.92978
2.42014	-12.90692	2.37441	-0.41235	-1.26837	0.74771	-0.00340	2.21354	0.25121	0.01834	0.92839
2.47709	-13.03825	2.38899	-0.40498	-1.27488	0.76642	-0.00342	2.39883	0.23887	0.01867	0.92768
2.53550	-13.16210	2.40366	-0.39778	-1.28254	0.78549	-0.00344	2.59279	0.22762	0.01879	0.92860
2.59471	-13.27938	2.41829	-0.39089	-1.29067	0.80378	-0.00345	2.78433	0.21783	0.01873	0.93129
2.65604	-13.39526	2.43325	-0.38424	-1.29887	0.82112	-0.00345	2.96744	0.20953	0.01854	0.93564
2.71887	-13.51062	2.44841	-0.37803	-1.30655	0.83666	-0.00345	3.13130	0.20289	0.01828	0.94131
2.78242	-13.62582	2.46364	-0.37235	-1.31329	0.85004	-0.00345	3.26828	0.19794	0.01800	0.94781
2.84819	-13.74472	2.47922	-0.36708	-1.31899	0.86178	-0.00344	3.37843	0.19442	0.01774	0.95506
2.91545	-13.86496	2.49500	-0.36231	-1.32370	0.87214	-0.00344	3.46210	0.19217	0.01752	0.96299
2.98329	-13.98413	2.51068	-0.35801	-1.32758	0.88135	-0.00343	3.52102	0.19105	0.01731	0.97149
3.05344	-14.10219	2.52663	-0.35414	-1.33127	0.88996	-0.00342	3.56484	0.19069	0.01712	0.98069
3.12598	-14.21826	2.54275	-0.35062	-1.33497	0.89809	-0.00340	3.59636	0.19100	0.01693	0.99041
3.19898	-14.32727	2.55857	-0.34760	-1.33894	0.90552	-0.00339	3.62074	0.19171	0.01676	1.00014
3.27439	-14.43235	2.57451	-0.34492	-1.34335	0.91249	-0.00337	3.64077	0.19274	0.01660	1.00970
3.35121	-14.53102	2.59025	-0.34262	-1.34831	0.91882	-0.00335	3.66109	0.19384	0.01648	1.01867
3.43053	-14.62575	2.60605	-0.34060	-1.35381	0.92445	-0.00332	3.68247	0.19497	0.01638	1.02715
3.51124	-14.71483	2.62150	-0.33887	-1.35973	0.92917	-0.00329	3.70933	0.19581	0.01629	1.03521
3.59324	-14.80067	2.63668	-0.33727	-1.36585	0.93280	-0.00325	3.74131	0.19636	0.01622	1.04284
3.67782	-14.88193	2.65164	-0.33586	-1.37251	0.93553	-0.00321	3.78828	0.19622	0.01613	1.05068
3.76506	-14.96496	2.66638	-0.33430	-1.37898	0.93707	-0.00316	3.84375	0.19556	0.01603	1.05869
3.85356	-15.04389	2.68063	-0.33290	-1.38538	0.93686	-0.00311	3.91440	0.19408	0.01588	1.06720
3.94477	-15.13253	2.69454	-0.33107	-1.39025	0.93411	-0.00306	3.98248	0.19230	0.01567	1.07580
4.03714	-15.22074	2.70803	-0.32930	-1.39438	0.92892	-0.00300	4.06087	0.18981	0.01543	1.08456
4.13223	-15.31990	2.72104	-0.32711	-1.39653	0.92140	-0.00294	4.12954	0.18722	0.01511	1.09337
4.23012	-15.43042	2.73395	-0.32452	-1.39681	0.91164	-0.00287	4.18988	0.18444	0.01478	1.10171
4.32900	-15.54246	2.74621	-0.32192	-1.39583	0.90122	-0.00281	4.24631	0.18139	0.01445	1.10962
4.43066	-15.67474	2.75802	-0.31856	-1.39191	0.89113	-0.00277	4.26668	0.17899	0.01410	1.11679
4.53515	-15.81086	2.76975	-0.31508	-1.38691	0.88079	-0.00272	4.28535	0.17619	0.01383	1.12343
4.64253	-15.95141	2.78076	-0.31127	-1.38111	0.87317	-0.00269	4.29381	0.17347	0.01357	1.12982
4.75059	-16.10492	2.79118	-0.30674	-1.37369	0.86894	-0.00268	4.27418	0.17135	0.01333	1.13529
4.86145	-16.25571	2.80154	-0.30225	-1.36617	0.86547	-0.00267	4.26140	0.16871	0.01326	1.14020
4.97760	-16.41586	2.81112	-0.29735	-1.35754	0.86420	-0.00268	4.22468	0.16666	0.01323	1.14465
5.09424	-16.58772	2.81999	-0.29180	-1.34741	0.86519	-0.00270	4.15500	0.16549	0.01331	1.14789
5.21376	-16.75751	2.82907	-0.28639	-1.33691	0.86515	-0.00272	4.08481	0.16410	0.01361	1.15053
5.33618	-16.92937	2.83726	-0.28094	-1.32586	0.86547	-0.00274	3.98528	0.16401	0.01397	1.15288
5.46150	-17.11600	2.84481	-0.27480	-1.31323	0.86699	-0.00277	3.83560	0.16598	0.01437	1.15451
5.58971	-17.30241	2.85323	-0.26862	-1.30049	0.86736	-0.00281	3.68265	0.16826	0.01494	1.15590
5.72082	-17.47517	2.86128	-0.26274	-1.28973	0.86792	-0.00283	3.55213	0.17052	0.01551	1.15775
5.85823	-17.64491	2.86743	-0.25625	-1.28076	0.87181	-0.00286	3.42607	0.17396	0.01589	1.15985
5.99520	-17.80783	2.87399	-0.24959	-1.27305	0.87566	-0.00289	3.31527	0.17742	0.01622	1.16215
6.13497	-17.96068	2.88165	-0.24324	-1.26693	0.87854	-0.00291	3.23227	0.18004	0.01653	1.16517
6.28141	-18.09747	2.88731	-0.23704	-1.26351	0.88417	-0.00293	3.17815	0.18240	0.01658	1.16921
6.42674	-18.21833	2.89088	-0.23056	-1.26271	0.89311	-0.00296	3.14581	0.18492	0.01632	1.17398
6.57895	-18.33959	2.89611	-0.22382	-1.26299	0.90180	-0.00298	3.12772	0.18701	0.01594	1.17975
6.73401	-18.45808	2.90300	-0.21750	-1.26373	0.90886	-0.00299	3.12011	0.18848	0.01556	1.18612
6.89180	-18.56073	2.90657	-0.21175	-1.26511	0.91675	-0.00300	3.11683	0.19002	0.01502	1.19308
7.05716	-18.65578	2.90772	-0.20563	-1.26751	0.92635	-0.00301	3.11606	0.19202	0.01418	1.20117
7.22022	-18.75157	2.91083	-0.19963	-1.26993	0.93426	-0.00302	3.11682	0.19376	0.01332	1.20943
7.39098	-18.85680	2.91683	-0.19361	-1.27220	0.94048	-0.00302	3.11849	0.19520	0.01250	1.21783
7.56430	-18.95197	2.92083	-0.18844	-1.27396	0.94599	-0.00302	3.11820	0.19650	0.01176	1.22568
7.73994	-19.02675	2.91891	-0.18376	-1.27531	0.95234	-0.00303	3.10971	0.19838	0.01084	1.23363
7.92393	-19.10856	2.91852	-0.17872	-1.27667	0.95796	-0.00304	3.09908	0.20035	0.00983	1.24181
8.11030	-19.19705	2.92054	-0.17362	-1.27799	0.96260	-0.00304	3.08852	0.20216	0.00885	1.24957
8.29876	-19.29716	2.92638	-0.16846	-1.27933	0.96623	-0.00303	3.08016	0.20361	0.00800	1.25656
8.49618	-19.37586	2.92692	-0.16451	-1.28022	0.96983	-0.00303	3.07141	0.20501	0.00727	1.26295
8.69565	-19.42543	2.92035	-0.16164	-1.28058	0.97347	-0.00304	3.05742	0.20677	0.00649	1.26944
8.90472	-19.48725	2.91661	-0.15830	-1.28105	0.97651	-0.00304	3.04270	0.20851	0.00566	1.27615
9.11577	-19.55203	2.91424	-0.15500	-1.28154	0.97903	-0.00304	3.02905	0.21009	0.00490	1.28260
9.32836	-19.63709	2.91707	-0.15088	-1.28226	0.98123	-0.00304	3.01537	0.21158	0.00418	1.28895
9.54198	-19.71451	2.91904	-0.14752	-1.28291	0.98311	-0.00303	3.00573	0.21273	0.00363	1.29476
9.76563	-19.73765	2.90884	-0.14715	-1.28284	0.98432	-0.00304	3.00059	0.21359	0.00321	1.30058
10.00000	-19.75416	2.89712	-0.14723	-1.28268	0.98506	-0.00304	2.99596	0.21440	0.00277	1.30716

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Low stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 6 - 15 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-0.41845	2.31901	-0.10397	-3.05606	1.09329	-0.00054	10.83624	0.26158	-0.02425	0.56862
PGV	9.79530	1.48572	-0.09359	-3.64112	1.13963	-0.00040	19.57806	0.22312	-0.00726	0.50702
PGA	4.18190	1.37003	-0.07733	-2.97058	0.65854	-0.00134	8.88655	0.38515	-0.01754	0.76109
0.01000	4.26055	1.37525	-0.07573	-2.97896	0.64871	-0.00135	8.96264	0.38698	0.00439	0.68777
0.01024	4.27229	1.37568	-0.07553	-2.98082	0.64827	-0.00135	8.97544	0.38703	0.00437	0.68827
0.01048	4.28530	1.37615	-0.07531	-2.98289	0.64781	-0.00135	8.98991	0.38708	0.00436	0.68877
0.01072	4.29976	1.37667	-0.07507	-2.98521	0.64731	-0.00134	9.00627	0.38713	0.00433	0.68926
0.01097	4.31597	1.37724	-0.07481	-2.98783	0.64678	-0.00134	9.02497	0.38717	0.00431	0.68974
0.01123	4.33402	1.37787	-0.07453	-2.99075	0.64621	-0.00134	9.04608	0.38720	0.00428	0.69021
0.01150	4.35390	1.37856	-0.07423	-2.99398	0.64561	-0.00134	9.06954	0.38724	0.00426	0.69067
0.01177	4.37547	1.37933	-0.07389	-2.99747	0.64496	-0.00134	9.09500	0.38728	0.00423	0.69115
0.01205	4.39896	1.38019	-0.07351	-3.00126	0.64422	-0.00133	9.12271	0.38734	0.00419	0.69167
0.01233	4.42496	1.38114	-0.07310	-3.00545	0.64343	-0.00133	9.15362	0.38740	0.00414	0.69226
0.01262	4.45429	1.38219	-0.07265	-3.01019	0.64261	-0.00133	9.18902	0.38745	0.00408	0.69293
0.01292	4.48693	1.38336	-0.07215	-3.01548	0.64174	-0.00132	9.22870	0.38750	0.00402	0.69368
0.01322	4.52213	1.38467	-0.07159	-3.02117	0.64071	-0.00132	9.27089	0.38758	0.00395	0.69447
0.01353	4.55888	1.38611	-0.07097	-3.02707	0.63939	-0.00132	9.31360	0.38772	0.00388	0.69528
0.01385	4.59679	1.38769	-0.07028	-3.03303	0.63775	-0.00131	9.35628	0.38793	0.00383	0.69610
0.01417	4.63623	1.38944	-0.06951	-3.03912	0.63582	-0.00131	9.39944	0.38823	0.00377	0.69704
0.01451	4.67806	1.39138	-0.06866	-3.04547	0.63357	-0.00131	9.44415	0.38861	0.00369	0.69824
0.01485	4.72332	1.39351	-0.06772	-3.05226	0.63094	-0.00131	9.49192	0.38905	0.00357	0.69983
0.01520	4.77499	1.39591	-0.06670	-3.06010	0.62802	-0.00130	9.54721	0.38952	0.00343	0.70174
0.01556	4.83232	1.39868	-0.06556	-3.06894	0.62493	-0.00130	9.60770	0.39005	0.00329	0.70378
0.01592	4.88583	1.40175	-0.06428	-3.07692	0.62162	-0.00130	9.65796	0.39081	0.00317	0.70592
0.01630	4.92760	1.40494	-0.06285	-3.08230	0.61800	-0.00130	9.68745	0.39191	0.00304	0.70832
0.01668	4.95825	1.40831	-0.06129	-3.08516	0.61396	-0.00132	9.69743	0.39337	0.00291	0.71088
0.01707	4.97729	1.41192	-0.05968	-3.08560	0.60893	-0.00133	9.68357	0.39524	0.00287	0.71319
0.01748	4.98395	1.41568	-0.05797	-3.08353	0.60239	-0.00135	9.64283	0.39754	0.00293	0.71509
0.01789	4.97978	1.41949	-0.05610	-3.07923	0.59426	-0.00137	9.57963	0.40022	0.00306	0.71694
0.01831	4.96745	1.42335	-0.05405	-3.07320	0.58459	-0.00138	9.50143	0.40316	0.00317	0.71920
0.01874	4.94907	1.42730	-0.05190	-3.06593	0.57372	-0.00139	9.41349	0.40630	0.00325	0.72178
0.01918	4.91849	1.43140	-0.04967	-3.05650	0.56258	-0.00141	9.30579	0.40971	0.00338	0.72401
0.01963	4.86370	1.43575	-0.04736	-3.04290	0.55233	-0.00144	9.15876	0.41363	0.00363	0.72543
0.02009	4.77094	1.44036	-0.04495	-3.02276	0.54238	-0.00147	8.94773	0.41839	0.00398	0.72608
0.02057	4.64380	1.44513	-0.04258	-2.99677	0.53069	-0.00152	8.67486	0.42408	0.00440	0.72630
0.02105	4.50068	1.44999	-0.04043	-2.96842	0.51656	-0.00155	8.36869	0.43038	0.00488	0.72605
0.02154	4.34643	1.45459	-0.03852	-2.93853	0.50157	-0.00158	8.04201	0.43704	0.00549	0.72483
0.02205	4.19211	1.45877	-0.03672	-2.90905	0.48830	-0.00162	7.72145	0.44359	0.00620	0.72276
0.02257	4.05719	1.46241	-0.03497	-2.88323	0.47869	-0.00165	7.44639	0.44933	0.00676	0.72136
0.02310	3.94002	1.46468	-0.03322	-2.85965	0.47293	-0.00169	7.22065	0.45407	0.00695	0.72203
0.02364	3.83353	1.46542	-0.03150	-2.83673	0.46950	-0.00173	7.02944	0.45805	0.00690	0.72406
0.02420	3.74434	1.46583	-0.02989	-2.81696	0.46628	-0.00177	6.86851	0.46150	0.00697	0.72543
0.02477	3.67684	1.46700	-0.02858	-2.80223	0.46191	-0.00179	6.73439	0.46462	0.00738	0.72494
0.02535	3.62287	1.46876	-0.02777	-2.79066	0.45603	-0.00180	6.61618	0.46760	0.00807	0.72276
0.02595	3.56578	1.47026	-0.02751	-2.77834	0.44877	-0.00181	6.49409	0.47071	0.00895	0.71933
0.02656	3.48631	1.47037	-0.02761	-2.76116	0.43987	-0.00181	6.34072	0.47426	0.00990	0.71527
0.02719	3.36616	1.46861	-0.02773	-2.73578	0.42915	-0.00181	6.12964	0.47871	0.01079	0.71133
0.02783	3.20322	1.46585	-0.02749	-2.70254	0.41793	-0.00181	5.86199	0.48419	0.01164	0.70745
0.02848	3.02707	1.46380	-0.02674	-2.66803	0.40883	-0.00183	5.58493	0.49001	0.01268	0.70219
0.02915	2.87233	1.46335	-0.02555	-2.63883	0.40304	-0.00186	5.34947	0.49521	0.01406	0.69461
0.02984	2.75318	1.46370	-0.02414	-2.61632	0.39920	-0.00189	5.17529	0.49927	0.01556	0.68630
0.03054	2.67015	1.46422	-0.02282	-2.59976	0.39573	-0.00192	5.05970	0.50218	0.01684	0.67952
0.03126	2.61074	1.46508	-0.02182	-2.58714	0.39179	-0.00195	4.98034	0.50446	0.01783	0.67468
0.03199	2.54978	1.46638	-0.02115	-2.57438	0.38680	-0.00197	4.89934	0.50698	0.01864	0.67116
0.03275	2.47505	1.46849	-0.02064	-2.56011	0.38166	-0.00198	4.79806	0.51014	0.01929	0.66871
0.03352	2.38879	1.47174	-0.02011	-2.54543	0.37902	-0.00201	4.68070	0.51374	0.01977	0.66707
0.03430	2.28542	1.47519	-0.01948	-2.52860	0.37973	-0.00204	4.54375	0.51771	0.02009	0.66614
0.03511	2.15263	1.47716	-0.01878	-2.50579	0.38170	-0.00209	4.37389	0.52234	0.02021	0.66637
0.03594	1.98465	1.47646	-0.01813	-2.47464	0.38182	-0.00214	4.16374	0.52795	0.02007	0.66824
0.03678	1.78842	1.47251	-0.01769	-2.43573	0.37800	-0.00218	3.92149	0.53452	0.01966	0.67177
0.03765	1.59692	1.46588	-0.01769	-2.39541	0.37174	-0.00222	3.68716	0.54098	0.01907	0.67640
0.03854	1.45548	1.45833	-0.01828	-2.36340	0.36682	-0.00224	3.51228	0.54564	0.01850	0.68079
0.03944	1.38870	1.45153	-0.01944	-2.34567	0.36555	-0.00225	3.42227	0.54748	0.01817	0.68351
0.04037	1.38597	1.44606	-0.02094	-2.34090	0.36747	-0.00225	3.40432	0.54683	0.01817	0.68402
0.04132	1.41699	1.44178	-0.02251	-2.34350	0.37061	-0.00223	3.42574	0.54485	0.01835	0.68321
0.04229	1.45122	1.43855	-0.02397	-2.34750	0.37247	-0.00222	3.45341	0.54286	0.01847	0.68261
0.04329	1.47032	1.43609	-0.02529	-2.34908	0.37121	-0.00220	3.46536	0.54169	0.01841	0.68302
0.04431	1.47491	1.43419	-0.02665	-2.34819	0.36668	-0.00218	3.45815	0.54145	0.01828	0.68404
0.04535	1.48178	1.43322	-0.02827	-2.34851	0.36021	-0.00215	3.44618	0.54162	0.01833	0.68416

0.04642	1.49881	1.43378	-0.03008	-2.35233	0.35387	-0.00211	3.43810	0.54186	0.01881	0.68175
0.04751	1.50510	1.43509	-0.03173	-2.35533	0.34841	-0.00208	3.41563	0.54260	0.01966	0.67686
0.04863	1.47500	1.43543	-0.03295	-2.35126	0.34385	-0.00207	3.35752	0.54433	0.02059	0.67096
0.04977	1.40528	1.43343	-0.03379	-2.33813	0.34028	-0.00207	3.26551	0.54687	0.02136	0.66531
0.05094	1.31098	1.42881	-0.03442	-2.31820	0.33821	-0.00208	3.15805	0.54962	0.02190	0.66063
0.05214	1.21723	1.42226	-0.03504	-2.29651	0.33862	-0.00211	3.06147	0.55170	0.02217	0.65732
0.05337	1.14696	1.41472	-0.03591	-2.27793	0.34266	-0.00213	2.99899	0.55226	0.02216	0.65592
0.05462	1.10671	1.40706	-0.03707	-2.26433	0.35092	-0.00216	2.97724	0.55108	0.02186	0.65679
0.05591	1.08277	1.39976	-0.03846	-2.25363	0.36192	-0.00219	2.98075	0.54888	0.02140	0.65924
0.05722	1.05062	1.39262	-0.04003	-2.24122	0.37235	-0.00223	2.98068	0.54689	0.02098	0.66215
0.05857	0.98953	1.38540	-0.04169	-2.22322	0.37946	-0.00226	2.95080	0.54622	0.02063	0.66531
0.05995	0.89576	1.37867	-0.04330	-2.19973	0.38309	-0.00229	2.88305	0.54728	0.02037	0.66840
0.06136	0.78193	1.37316	-0.04482	-2.17415	0.38455	-0.00232	2.78755	0.54974	0.02034	0.67011
0.06280	0.66582	1.36869	-0.04633	-2.14995	0.38422	-0.00234	2.68143	0.55284	0.02055	0.66993
0.06428	0.55475	1.36467	-0.04780	-2.12792	0.38177	-0.00235	2.57410	0.55614	0.02087	0.66847
0.06579	0.45271	1.36106	-0.04918	-2.10842	0.37773	-0.00235	2.47302	0.55932	0.02119	0.66654
0.06734	0.37057	1.35800	-0.05048	-2.09338	0.37338	-0.00235	2.39092	0.56174	0.02131	0.66548
0.06893	0.31687	1.35518	-0.05183	-2.08401	0.36988	-0.00234	2.33644	0.56283	0.02102	0.66689
0.07055	0.29044	1.35218	-0.05331	-2.07963	0.36794	-0.00233	2.30858	0.56248	0.02022	0.67130
0.07221	0.27919	1.34909	-0.05495	-2.07803	0.36813	-0.00231	2.29666	0.56120	0.01912	0.67726
0.07391	0.27068	1.34624	-0.05675	-2.07713	0.37038	-0.00231	2.28965	0.55961	0.01813	0.68218
0.07565	0.26216	1.34377	-0.05881	-2.07659	0.37385	-0.00231	2.28467	0.55792	0.01756	0.68421
0.07743	0.25810	1.34155	-0.06124	-2.07717	0.37792	-0.00231	2.28523	0.55593	0.01748	0.68325
0.07925	0.26390	1.33922	-0.06413	-2.07955	0.38293	-0.00231	2.29604	0.55337	0.01767	0.68072
0.08111	0.28112	1.33646	-0.06742	-2.08369	0.38965	-0.00230	2.31923	0.55008	0.01788	0.67839
0.08302	0.30561	1.33307	-0.07088	-2.08856	0.39846	-0.00229	2.35197	0.54618	0.01796	0.67730
0.08498	0.33889	1.32922	-0.07426	-2.09457	0.40949	-0.00228	2.39698	0.54160	0.01784	0.67800
0.08697	0.38518	1.32539	-0.07736	-2.10282	0.42251	-0.00228	2.46032	0.53619	0.01755	0.68050
0.08902	0.45382	1.32200	-0.08012	-2.11528	0.43647	-0.00227	2.55323	0.52961	0.01711	0.68462
0.09112	0.55216	1.31927	-0.08263	-2.13352	0.44979	-0.00226	2.68394	0.52175	0.01659	0.68999
0.09326	0.68446	1.31730	-0.08513	-2.15862	0.46195	-0.00223	2.85745	0.51264	0.01605	0.69587
0.09545	0.83099	1.31590	-0.08773	-2.18690	0.47204	-0.00218	3.05256	0.50334	0.01571	0.70087
0.09770	0.96760	1.31481	-0.09043	-2.21367	0.47952	-0.00212	3.24130	0.49490	0.01569	0.70383
0.10000	1.06512	1.31358	-0.09309	-2.23293	0.48375	-0.00207	3.38821	0.48837	0.01599	0.70465
0.10235	1.10308	1.31176	-0.09554	-2.24027	0.48412	-0.00204	3.46673	0.48434	0.01643	0.70415
0.10476	1.07689	1.30920	-0.09773	-2.23467	0.48063	-0.00202	3.46798	0.48289	0.01681	0.70361
0.10723	0.99891	1.30616	-0.09971	-2.21868	0.47431	-0.00201	3.40562	0.48359	0.01700	0.70396
0.10975	0.87470	1.30266	-0.10148	-2.19322	0.46559	-0.00203	3.28754	0.48630	0.01688	0.70594
0.11233	0.72221	1.29887	-0.10309	-2.16181	0.45541	-0.00205	3.13691	0.49041	0.01642	0.70985
0.11498	0.57428	1.29544	-0.10472	-2.13134	0.44625	-0.00207	2.99320	0.49463	0.01568	0.71558
0.11768	0.45295	1.29305	-0.10644	-2.10669	0.44028	-0.00210	2.88126	0.49804	0.01466	0.72319
0.12045	0.36627	1.29219	-0.10825	-2.08989	0.43914	-0.00212	2.81002	0.50016	0.01350	0.73190
0.12328	0.32291	1.29306	-0.11018	-2.08278	0.44316	-0.00213	2.78965	0.50050	0.01235	0.74062
0.12619	0.32395	1.29572	-0.11217	-2.08574	0.45207	-0.00215	2.82065	0.49897	0.01138	0.74839
0.12916	0.36387	1.29994	-0.11414	-2.09752	0.46469	-0.00215	2.89680	0.49588	0.01057	0.75520
0.13219	0.43100	1.30518	-0.11608	-2.11523	0.47978	-0.00215	3.00612	0.49177	0.00994	0.76118
0.13531	0.50761	1.31088	-0.11800	-2.13499	0.49596	-0.00216	3.12853	0.48744	0.00955	0.76581
0.13849	0.56997	1.31630	-0.11981	-2.15166	0.51148	-0.00217	3.23622	0.48376	0.00946	0.76858
0.14175	0.58939	1.32018	-0.12145	-2.15864	0.52325	-0.00219	3.29451	0.48170	0.00950	0.77023
0.14508	0.55621	1.32172	-0.12288	-2.15331	0.52941	-0.00221	3.29126	0.48151	0.00946	0.77223
0.14850	0.48293	1.32140	-0.12410	-2.13855	0.53214	-0.00225	3.24230	0.48265	0.00925	0.77498
0.15199	0.38323	1.31990	-0.12504	-2.11773	0.53365	-0.00230	3.16457	0.48461	0.00889	0.77852
0.15557	0.26387	1.31757	-0.12578	-2.09255	0.53482	-0.00235	3.06633	0.48721	0.00845	0.78260
0.15923	0.13273	1.31495	-0.12648	-2.06506	0.53574	-0.00240	2.95599	0.49027	0.00807	0.78657
0.16298	-0.00207	1.31256	-0.12725	-2.03730	0.53646	-0.00245	2.84177	0.49363	0.00781	0.79010
0.16681	-0.13729	1.31025	-0.12810	-2.00971	0.53672	-0.00250	2.72734	0.49717	0.00760	0.79367
0.17074	-0.26751	1.30787	-0.12899	-1.98314	0.53586	-0.00254	2.61945	0.50058	0.00734	0.79790
0.17475	-0.38827	1.30587	-0.12994	-1.95900	0.53508	-0.00257	2.52271	0.50366	0.00706	0.80235
0.17887	-0.49739	1.30432	-0.13112	-1.93785	0.53415	-0.00260	2.43788	0.50632	0.00687	0.80624
0.18307	-0.59810	1.30216	-0.13267	-1.91814	0.53123	-0.00261	2.35984	0.50857	0.00672	0.80981
0.18738	-0.68423	1.30000	-0.13434	-1.90163	0.53025	-0.00262	2.29824	0.50991	0.00667	0.81250
0.19179	-0.75530	1.29835	-0.13616	-1.88906	0.52928	-0.00263	2.25200	0.51043	0.00683	0.81359
0.19631	-0.80955	1.29731	-0.13831	-1.88088	0.52741	-0.00262	2.22198	0.51008	0.00724	0.81267
0.20092	-0.85670	1.29611	-0.14066	-1.87430	0.52768	-0.00262	2.20079	0.50904	0.00772	0.81104
0.20565	-0.90354	1.29494	-0.14317	-1.86803	0.53085	-0.00263	2.18237	0.50765	0.00811	0.80959
0.21049	-0.95462	1.29388	-0.14577	-1.86126	0.53401	-0.00265	2.16097	0.50634	0.00845	0.80828
0.21544	-1.02102	1.29174	-0.14848	-1.85087	0.53263	-0.00265	2.12200	0.50575	0.00869	0.80736
0.22051	-1.11585	1.28852	-0.15101	-1.83439	0.52488	-0.00265	2.05188	0.50672	0.00877	0.80745
0.22570	-1.22352	1.28566	-0.15354	-1.81603	0.51524	-0.00265	1.96869	0.50859	0.00872	0.80834
0.23101	-1.34427	1.28264	-0.15612	-1.79523	0.50405	-0.00264	1.87312	0.51132	0.00844	0.81070
0.23645	-1.46996	1.27909	-0.15892	-1.77310	0.49309	-0.00264	1.77566	0.51426	0.00801	0.81418
0.24201	-1.58602	1.27630	-0.16177	-1.75377	0.48367	-0.00264	1.69223	0.51659	0.00769	0.81681
0.24771	-1.68560	1.27442	-0.16474	-1.73877	0.47538	-0.00264	1.62924	0.51780	0.00745	0.81877
0.25354	-1.76094	1.27233	-0.16803	-1.72844	0.46832	-0.00263	1.59309	0.51705	0.00704	0.82197
0.25950	-1.81408	1.26976	-0.17166	-1.72199	0.46080	-0.00260	1.58170	0.51437	0.00632	0.82727
0.26561	-1.84729	1.26744	-0.17554	-1.71967	0.45190	-0.00256	1.59313	0.51007	0.00530	0.83472
0.27186	-1.86765	1.26562	-0.17956	-1.72033	0.44332	-0.00252	1.62139	0.50466	0.00416	0.84303
0.27826	-1.88534	1.26398	-0.18390	-1.72168	0.43448	-0.00248	1.65610	0.49884	0.00313	0.85067
0.28480	-1.91484	1.26208	-0.18830	-1.72056	0.42351	-0.00244	1.68258	0.49352	0.00235	0.85658
0.29150	-1.96370	1.26023	-0.19262	-1.71572	0.41177	-0.00240	1.69393	0.48913	0.00152	0.86275
0.29836	-2.03212	1.25841	-0.19691	-1.70722	0.39918	-0.00237	1.68842	0.48575	0.00075	0.86863

0.30539	-2.10791	1.25757	-0.20117	-1.69844	0.38738	-0.00234	1.67792	0.48280	-0.00001	0.87469
0.31257	-2.19597	1.25705	-0.20528	-1.68765	0.37474	-0.00232	1.65771	0.48048	-0.00087	0.88134
0.31993	-2.29570	1.25673	-0.20917	-1.67490	0.36233	-0.00231	1.62884	0.47865	-0.00176	0.88797
0.32745	-2.40051	1.25702	-0.21290	-1.66219	0.34991	-0.00229	1.59660	0.47705	-0.00280	0.89577
0.33517	-2.50195	1.25762	-0.21687	-1.65094	0.33854	-0.00227	1.56812	0.47510	-0.00381	0.90327
0.34304	-2.60520	1.25830	-0.22092	-1.63953	0.32945	-0.00225	1.54007	0.47301	-0.00461	0.90914
0.35112	-2.70705	1.25993	-0.22501	-1.62948	0.32332	-0.00225	1.51685	0.47065	-0.00541	0.91470
0.35938	-2.80937	1.26194	-0.22923	-1.61966	0.31926	-0.00225	1.49640	0.46811	-0.00611	0.91911
0.36784	-2.91766	1.26346	-0.23360	-1.60800	0.31674	-0.00227	1.47500	0.46536	-0.00684	0.92323
0.37649	-3.02693	1.26507	-0.23816	-1.59634	0.31473	-0.00229	1.45669	0.46222	-0.00720	0.92434
0.38536	-3.13512	1.26659	-0.24312	-1.58502	0.31302	-0.00231	1.44214	0.45860	-0.00705	0.92211
0.39442	-3.24318	1.26821	-0.24833	-1.57400	0.31297	-0.00233	1.43098	0.45455	-0.00652	0.91723
0.40370	-3.35624	1.27004	-0.25356	-1.56218	0.31380	-0.00236	1.41953	0.45034	-0.00570	0.90983
0.41321	-3.47207	1.27184	-0.25888	-1.54981	0.31384	-0.00238	1.40852	0.44596	-0.00461	0.90033
0.42292	-3.58824	1.27344	-0.26426	-1.53723	0.31347	-0.00240	1.39956	0.44123	-0.00329	0.88932
0.43288	-3.70559	1.27532	-0.26954	-1.52479	0.31348	-0.00242	1.39295	0.43620	-0.00179	0.87713
0.44307	-3.82207	1.27748	-0.27471	-1.51280	0.31465	-0.00245	1.39027	0.43080	-0.00020	0.86454
0.45349	-3.93749	1.27969	-0.27973	-1.50108	0.31569	-0.00247	1.39095	0.42510	0.00142	0.85190
0.46417	-4.05178	1.28205	-0.28462	-1.48965	0.31646	-0.00249	1.39500	0.41914	0.00301	0.83966
0.47508	-4.16246	1.28465	-0.28948	-1.47909	0.31809	-0.00251	1.40473	0.41276	0.00448	0.82853
0.48626	-4.26968	1.28755	-0.29429	-1.46952	0.31996	-0.00252	1.41897	0.40615	0.00588	0.81820
0.49771	-4.37591	1.29058	-0.29903	-1.46025	0.32191	-0.00254	1.43431	0.39959	0.00727	0.80831
0.50942	-4.48160	1.29384	-0.30370	-1.45124	0.32441	-0.00255	1.45086	0.39308	0.00864	0.79862
0.52140	-4.58717	1.29757	-0.30826	-1.44264	0.32747	-0.00257	1.46891	0.38663	0.01001	0.78905
0.53367	-4.69217	1.30170	-0.31271	-1.43450	0.33095	-0.00258	1.48862	0.38024	0.01137	0.77961
0.54624	-4.79528	1.30599	-0.31710	-1.42686	0.33501	-0.00260	1.51021	0.37394	0.01272	0.77044
0.55910	-4.89598	1.31049	-0.32144	-1.41986	0.33986	-0.00262	1.53427	0.36771	0.01404	0.76156
0.57225	-4.99471	1.31547	-0.32569	-1.41366	0.34576	-0.00264	1.56131	0.36155	0.01531	0.75304
0.58569	-5.09154	1.32100	-0.32980	-1.40830	0.35260	-0.00266	1.59160	0.35548	0.01649	0.74511
0.59948	-5.18672	1.32681	-0.33384	-1.40355	0.35996	-0.00268	1.62476	0.34946	0.01757	0.73801
0.61357	-5.27946	1.33263	-0.33783	-1.39922	0.36736	-0.00270	1.66013	0.34357	0.01852	0.73191
0.62802	-5.37072	1.33857	-0.34176	-1.39529	0.37483	-0.00272	1.69784	0.33776	0.01936	0.72680
0.64280	-5.46120	1.34489	-0.34560	-1.39183	0.38252	-0.00273	1.73778	0.33207	0.02006	0.72266
0.65794	-5.55175	1.35169	-0.34933	-1.38879	0.39048	-0.00275	1.77957	0.32651	0.02064	0.71945
0.67340	-5.64221	1.35873	-0.35297	-1.38594	0.39841	-0.00277	1.82190	0.32115	0.02112	0.71715
0.68927	-5.73310	1.36578	-0.35658	-1.38301	0.40604	-0.00279	1.86362	0.31600	0.02153	0.71570
0.70547	-5.82415	1.37276	-0.36014	-1.37992	0.41322	-0.00280	1.90396	0.31109	0.02188	0.71485
0.72207	-5.91659	1.37995	-0.36364	-1.37675	0.42017	-0.00282	1.94345	0.30639	0.02220	0.71418
0.73910	-6.01105	1.38761	-0.36704	-1.37360	0.42709	-0.00283	1.98245	0.30187	0.02251	0.71328
0.75649	-6.10746	1.39572	-0.37031	-1.37044	0.43391	-0.00285	2.02049	0.29756	0.02282	0.71175
0.77429	-6.20564	1.40406	-0.37351	-1.36712	0.44045	-0.00286	2.05694	0.29345	0.02317	0.70923
0.79246	-6.30459	1.41235	-0.37664	-1.36356	0.44652	-0.00287	2.09113	0.28957	0.02357	0.70552
0.81116	-6.40498	1.42060	-0.37975	-1.35976	0.45216	-0.00289	2.12333	0.28587	0.02399	0.70083
0.83022	-6.50605	1.42893	-0.38277	-1.35587	0.45752	-0.00290	2.15357	0.28238	0.02442	0.69556
0.84976	-6.60888	1.43765	-0.38568	-1.35204	0.46288	-0.00291	2.18273	0.27906	0.02482	0.69009
0.86972	-6.71318	1.44687	-0.38844	-1.34840	0.46839	-0.00293	2.21131	0.27591	0.02517	0.68488
0.89023	-6.81937	1.45657	-0.39109	-1.34490	0.47404	-0.00294	2.23943	0.27289	0.02545	0.68037
0.91116	-6.92608	1.46643	-0.39363	-1.34147	0.47963	-0.00295	2.26633	0.27004	0.02568	0.67704
0.93257	-7.03317	1.47625	-0.39610	-1.33797	0.48498	-0.00296	2.29148	0.26735	0.02585	0.67494
0.95456	-7.14093	1.48600	-0.39852	-1.33435	0.49005	-0.00297	2.31466	0.26481	0.02597	0.67401
0.97704	-7.24918	1.49573	-0.40087	-1.33067	0.49490	-0.00299	2.33592	0.26242	0.02605	0.67423
1.00000	-7.35830	1.50566	-0.40310	-1.32706	0.49973	-0.00300	2.35594	0.26017	0.02606	0.67551
1.02354	-7.46903	1.51601	-0.40520	-1.32361	0.50473	-0.00301	2.37552	0.25802	0.02600	0.67776
1.04767	-7.58124	1.52687	-0.40716	-1.32041	0.51001	-0.00302	2.39542	0.25595	0.02588	0.68084
1.07227	-7.69408	1.53808	-0.40897	-1.31745	0.51549	-0.00303	2.41560	0.25395	0.02570	0.68456
1.09745	-7.80758	1.54949	-0.41066	-1.31462	0.52105	-0.00304	2.43577	0.25201	0.02550	0.68881
1.12334	-7.92173	1.56095	-0.41227	-1.31183	0.52656	-0.00305	2.45571	0.25013	0.02527	0.69347
1.14982	-8.03572	1.57229	-0.41380	-1.30904	0.53189	-0.00306	2.47492	0.24831	0.02505	0.69841
1.17675	-8.14895	1.58344	-0.41523	-1.30626	0.53699	-0.00307	2.49327	0.24658	0.02483	0.70349
1.20453	-8.26336	1.59469	-0.41656	-1.30351	0.54205	-0.00308	2.51127	0.24490	0.02460	0.70864
1.23289	-8.37813	1.60609	-0.41777	-1.30089	0.54715	-0.00309	2.52918	0.24329	0.02436	0.71367
1.26183	-8.49351	1.61777	-0.41881	-1.29850	0.55240	-0.00310	2.54740	0.24174	0.02410	0.71855
1.29149	-8.61022	1.62988	-0.41970	-1.29634	0.55792	-0.00311	2.56628	0.24024	0.02380	0.72338
1.32188	-8.72817	1.64240	-0.42043	-1.29442	0.56370	-0.00311	2.58583	0.23879	0.02348	0.72824
1.35300	-8.84710	1.65525	-0.42102	-1.29269	0.56967	-0.00312	2.60580	0.23738	0.02313	0.73322
1.38485	-8.96664	1.66827	-0.42148	-1.29110	0.57573	-0.00313	2.62576	0.23603	0.02276	0.73843
1.41743	-9.08644	1.68131	-0.42183	-1.28956	0.58173	-0.00314	2.64514	0.23475	0.02238	0.74400
1.45075	-9.20626	1.69425	-0.42210	-1.28800	0.58759	-0.00315	2.66341	0.23354	0.02199	0.74997
1.48500	-9.32674	1.70712	-0.42229	-1.28638	0.59326	-0.00315	2.68033	0.23241	0.02161	0.75637
1.51999	-9.44717	1.71985	-0.42239	-1.28470	0.59873	-0.00316	2.69569	0.23136	0.02122	0.76315
1.55569	-9.56767	1.73249	-0.42238	-1.28301	0.60402	-0.00317	2.70958	0.23041	0.02082	0.77031
1.59236	-9.68923	1.74524	-0.42227	-1.28133	0.60928	-0.00317	2.72241	0.22953	0.02041	0.77787
1.62973	-9.81119	1.75810	-0.42202	-1.27973	0.61454	-0.00318	2.73443	0.22872	0.01998	0.78574
1.66806	-9.93447	1.77123	-0.42163	-1.27824	0.61991	-0.00319	2.74610	0.22797	0.01953	0.79397
1.70736	-10.05910	1.78469	-0.42110	-1.27689	0.62544	-0.00319	2.75770	0.22726	0.01906	0.80253
1.74764	-10.18499	1.79846	-0.42041	-1.27570	0.63115	-0.00320	2.76938	0.22659	0.01857	0.81141
1.78859	-10.31099	1.81240	-0.41959	-1.27466	0.63696	-0.00320	2.78111	0.22595	0.01806	0.82052
1.83083	-10.43878	1.82666	-0.41862	-1.27373	0.64293	-0.00321	2.79297	0.22534	0.01755	0.82998
1.87371	-10.56607	1.84091	-0.41755	-1.27290	0.64889	-0.00321	2.80464	0.22475	0.01704	0.83960
1.91791	-10.69466	1.85530	-0.41635	-1.27211	0.65487	-0.00322	2.81604	0.22419	0.01653	0.84947
1.96309	-10.82327	1.86964	-0.41506	-1.27133	0.66076	-0.00322	2.82686	0.22366	0.01604	0.85939

2.00924	-10.95172	1.88385	-0.41368	-1.27054	0.66650	-0.00323	2.83690	0.22316	0.01556	0.86923
2.05634	-11.07985	1.89791	-0.41220	-1.26971	0.67208	-0.00323	2.84604	0.22269	0.01511	0.87885
2.10482	-11.20875	1.91191	-0.41063	-1.26885	0.67751	-0.00324	2.85431	0.22225	0.01467	0.88817
2.15424	-11.33726	1.92576	-0.40897	-1.26797	0.68277	-0.00324	2.86165	0.22185	0.01425	0.89694
2.20507	-11.46660	1.93961	-0.40720	-1.26706	0.68794	-0.00324	2.86824	0.22148	0.01385	0.90512
2.25683	-11.59562	1.95337	-0.40533	-1.26618	0.69298	-0.00324	2.87418	0.22115	0.01347	0.91270
2.31000	-11.72557	1.96721	-0.40333	-1.26533	0.69800	-0.00325	2.87970	0.22083	0.01309	0.91983
2.36463	-11.85651	1.98119	-0.40120	-1.26454	0.70303	-0.00325	2.88498	0.22054	0.01271	0.92664
2.42014	-11.98713	1.99519	-0.39896	-1.26383	0.70804	-0.00325	2.89015	0.22027	0.01233	0.93318
2.47709	-12.11870	2.00935	-0.39658	-1.26322	0.71312	-0.00325	2.89542	0.22001	0.01195	0.93966
2.53550	-12.25115	2.02370	-0.39406	-1.26271	0.71826	-0.00325	2.90087	0.21976	0.01156	0.94625
2.59471	-12.38295	2.03807	-0.39145	-1.26231	0.72343	-0.00325	2.90649	0.21952	0.01117	0.95300
2.65604	-12.51691	2.05274	-0.38866	-1.26202	0.72870	-0.00325	2.91250	0.21929	0.01076	0.96013
2.71887	-12.65137	2.06754	-0.38576	-1.26183	0.73404	-0.00325	2.91876	0.21905	0.01036	0.96759
2.78242	-12.78470	2.08228	-0.38278	-1.26173	0.73934	-0.00325	2.92516	0.21883	0.00995	0.97535
2.84819	-12.91977	2.09720	-0.37964	-1.26171	0.74468	-0.00325	2.93185	0.21860	0.00954	0.98368
2.91545	-13.05489	2.11218	-0.37643	-1.26174	0.75003	-0.00325	2.93857	0.21838	0.00914	0.99249
2.98329	-13.18818	2.12688	-0.37313	-1.26184	0.75523	-0.00325	2.94532	0.21816	0.00874	1.00159
3.05344	-13.32272	2.14174	-0.36975	-1.26196	0.76044	-0.00325	2.95198	0.21795	0.00836	1.01096
3.12598	-13.45877	2.15666	-0.36619	-1.26213	0.76558	-0.00324	2.95861	0.21774	0.00799	1.02043
3.19898	-13.59210	2.17124	-0.36267	-1.26230	0.77056	-0.00324	2.96493	0.21753	0.00764	1.02945
3.27439	-13.72687	2.18588	-0.35898	-1.26249	0.77544	-0.00324	2.97101	0.21734	0.00730	1.03803
3.35121	-13.86037	2.20029	-0.35528	-1.26267	0.78018	-0.00323	2.97681	0.21715	0.00699	1.04587
3.43053	-13.99530	2.21475	-0.35141	-1.26286	0.78481	-0.00323	2.98229	0.21698	0.00668	1.05333
3.51124	-14.12864	2.22898	-0.34757	-1.26304	0.78932	-0.00323	2.98747	0.21681	0.00640	1.06051
3.59324	-14.26135	2.24296	-0.34357	-1.26325	0.79360	-0.00322	2.99225	0.21666	0.00613	1.06779
3.67782	-14.39430	2.25705	-0.33963	-1.26343	0.79788	-0.00322	2.99677	0.21650	0.00587	1.07552
3.76506	-14.52849	2.27092	-0.33536	-1.26368	0.80195	-0.00321	3.00112	0.21638	0.00560	1.08421
3.85356	-14.66113	2.28494	-0.33133	-1.26388	0.80604	-0.00320	3.00507	0.21624	0.00536	1.09347
3.94477	-14.79424	2.29849	-0.32690	-1.26417	0.80987	-0.00320	3.00908	0.21614	0.00511	1.10349
4.03714	-14.92659	2.31237	-0.32268	-1.26443	0.81375	-0.00319	3.01260	0.21603	0.00488	1.11361
4.13223	-15.05823	2.32582	-0.31829	-1.26476	0.81747	-0.00318	3.01642	0.21592	0.00466	1.12387
4.23012	-15.19192	2.33944	-0.31363	-1.26515	0.82110	-0.00318	3.01981	0.21586	0.00443	1.13396
4.32900	-15.32269	2.35317	-0.30939	-1.26551	0.82485	-0.00317	3.02346	0.21574	0.00423	1.14316
4.43066	-15.45371	2.36612	-0.30452	-1.26601	0.82822	-0.00316	3.02696	0.21570	0.00401	1.15199
4.53515	-15.58668	2.37998	-0.29991	-1.26650	0.83183	-0.00315	3.03036	0.21564	0.00382	1.16004
4.64253	-15.71768	2.39345	-0.29536	-1.26704	0.83539	-0.00314	3.03436	0.21554	0.00364	1.16750
4.75059	-15.84768	2.40614	-0.29020	-1.26770	0.83853	-0.00313	3.03754	0.21555	0.00342	1.17452
4.86145	-15.97880	2.42005	-0.28565	-1.26832	0.84209	-0.00312	3.04137	0.21547	0.00326	1.18074
4.97760	-16.10972	2.43327	-0.28083	-1.26902	0.84548	-0.00311	3.04564	0.21540	0.00307	1.18675
5.09424	-16.24012	2.44583	-0.27536	-1.26984	0.84845	-0.00310	3.04859	0.21547	0.00286	1.19249
5.21376	-16.37152	2.45988	-0.27071	-1.27061	0.85194	-0.00309	3.05297	0.21537	0.00270	1.19753
5.33618	-16.49874	2.47278	-0.26599	-1.27142	0.85519	-0.00308	3.05771	0.21529	0.00254	1.20241
5.46150	-16.62756	2.48471	-0.26019	-1.27238	0.85790	-0.00307	3.06018	0.21542	0.00231	1.20752
5.58971	-16.75865	2.49847	-0.25520	-1.27331	0.86115	-0.00306	3.06449	0.21538	0.00215	1.21219
5.72082	-16.88512	2.51192	-0.25084	-1.27422	0.86451	-0.00305	3.07068	0.21520	0.00201	1.21675
5.85823	-17.01317	2.52324	-0.24483	-1.27528	0.86701	-0.00304	3.07278	0.21538	0.00178	1.22223
5.99520	-17.14217	2.53575	-0.23914	-1.27635	0.86971	-0.00303	3.07543	0.21551	0.00157	1.22754
6.13497	-17.26978	2.54987	-0.23481	-1.27738	0.87302	-0.00302	3.08251	0.21528	0.00146	1.23244
6.28141	-17.39344	2.56163	-0.22981	-1.27843	0.87574	-0.00300	3.08735	0.21524	0.00128	1.23802
6.42674	-17.51572	2.57168	-0.22343	-1.27955	0.87772	-0.00299	3.08677	0.21561	0.00103	1.24413
6.57895	-17.64515	2.58441	-0.21777	-1.28070	0.88030	-0.00298	3.08977	0.21571	0.00084	1.25008
6.73401	-17.77157	2.59859	-0.21370	-1.28183	0.88343	-0.00297	3.09911	0.21534	0.00075	1.25555
6.89180	-17.88831	2.60875	-0.20859	-1.28289	0.88563	-0.00296	3.10236	0.21542	0.00057	1.26177
7.05716	-18.01056	2.61763	-0.20159	-1.28407	0.88721	-0.00294	3.09839	0.21602	0.00028	1.26884
7.22022	-18.13313	2.62879	-0.19572	-1.28525	0.88927	-0.00293	3.09935	0.21626	0.00007	1.27511
7.39098	-18.25948	2.64269	-0.19138	-1.28644	0.89202	-0.00292	3.10838	0.21593	-0.00001	1.28065
7.56430	-18.37323	2.65333	-0.18715	-1.28750	0.89423	-0.00290	3.11505	0.21575	-0.00013	1.28616
7.73994	-18.48086	2.65886	-0.18016	-1.28857	0.89520	-0.00290	3.10618	0.21664	-0.00046	1.29256
7.92393	-18.59811	2.66699	-0.17328	-1.28977	0.89654	-0.00288	3.10061	0.21733	-0.00075	1.29839
8.11030	-18.71848	2.67750	-0.16740	-1.29097	0.89832	-0.00287	3.10053	0.21762	-0.00095	1.30325
8.29876	-18.83921	2.69074	-0.16350	-1.29211	0.90068	-0.00286	3.11043	0.21721	-0.00101	1.30686
8.49618	-18.94319	2.69767	-0.15858	-1.29310	0.90210	-0.00284	3.10994	0.21749	-0.00120	1.31122
8.69565	-19.03644	2.69864	-0.15094	-1.29415	0.90232	-0.00284	3.09322	0.21887	-0.00163	1.31680
8.90472	-19.14166	2.70330	-0.14375	-1.29533	0.90302	-0.00283	3.08296	0.21983	-0.00198	1.32183
9.11577	-19.24804	2.70922	-0.13712	-1.29650	0.90393	-0.00282	3.07561	0.22058	-0.00228	1.32651
9.32836	-19.36639	2.72026	-0.13189	-1.29766	0.90566	-0.00280	3.07655	0.22076	-0.00244	1.33030
9.54198	-19.46845	2.72839	-0.12779	-1.29862	0.90714	-0.00279	3.07853	0.22083	-0.00256	1.33416
9.76563	-19.53294	2.72355	-0.12144	-1.29945	0.90667	-0.00279	3.06299	0.22203	-0.00298	1.34043
10.00000	-19.59818	2.71798	-0.11427	-1.30040	0.90587	-0.00278	3.04756	0.22321	-0.00344	1.34762

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Low stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 15 - 30 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	3.96503	2.28230	-0.11221	-3.80566	1.42282	-0.00021	18.56882	0.21987	-0.00270	0.43780
PGV	11.70126	1.55253	-0.14676	-4.01509	1.28736	-0.00023	22.13541	0.22481	0.00746	0.41809
PGA	4.05348	1.48316	-0.07388	-3.05900	0.64400	-0.00125	7.84023	0.41980	-0.02190	0.75635
0.01000	4.07795	1.48987	-0.07226	-3.05798	0.62815	-0.00126	7.84679	0.42302	-0.00072	0.70667
0.01024	4.08705	1.49031	-0.07201	-3.05937	0.62752	-0.00126	7.85530	0.42311	-0.00075	0.70718
0.01048	4.09755	1.49079	-0.07175	-3.06100	0.62686	-0.00126	7.86566	0.42319	-0.00078	0.70769
0.01072	4.10954	1.49132	-0.07146	-3.06288	0.62618	-0.00126	7.87797	0.42326	-0.00082	0.70820
0.01097	4.12308	1.49190	-0.07115	-3.06502	0.62547	-0.00126	7.89226	0.42332	-0.00086	0.70871
0.01123	4.13830	1.49254	-0.07081	-3.06744	0.62472	-0.00126	7.90868	0.42337	-0.00091	0.70923
0.01150	4.15542	1.49323	-0.07044	-3.07017	0.62390	-0.00126	7.92752	0.42342	-0.00097	0.70977
0.01177	4.17457	1.49400	-0.07004	-3.07324	0.62300	-0.00125	7.94887	0.42346	-0.00104	0.71034
0.01205	4.19597	1.49486	-0.06959	-3.07667	0.62202	-0.00125	7.97304	0.42350	-0.00111	0.71095
0.01233	4.22018	1.49582	-0.06910	-3.08057	0.62099	-0.00125	8.00083	0.42353	-0.00120	0.71162
0.01262	4.24752	1.49690	-0.06856	-3.08500	0.61990	-0.00125	8.03270	0.42355	-0.00130	0.71235
0.01292	4.27768	1.49810	-0.06796	-3.08987	0.61870	-0.00124	8.06803	0.42357	-0.00141	0.71315
0.01322	4.30989	1.49944	-0.06729	-3.09505	0.61730	-0.00124	8.10552	0.42363	-0.00152	0.71402
0.01353	4.34445	1.50093	-0.06655	-3.10057	0.61569	-0.00124	8.14555	0.42372	-0.00165	0.71499
0.01385	4.38241	1.50261	-0.06573	-3.10661	0.61383	-0.00123	8.18966	0.42383	-0.00179	0.71607
0.01417	4.42277	1.50447	-0.06483	-3.11296	0.61163	-0.00123	8.23605	0.42399	-0.00194	0.71728
0.01451	4.46333	1.50652	-0.06381	-3.11925	0.60906	-0.00123	8.28098	0.42427	-0.00210	0.71860
0.01485	4.50358	1.50879	-0.06268	-3.12536	0.60613	-0.00123	8.32339	0.42467	-0.00228	0.72011
0.01520	4.54288	1.51128	-0.06141	-3.13115	0.60281	-0.00123	8.36228	0.42523	-0.00248	0.72195
0.01556	4.58087	1.51400	-0.05999	-3.13649	0.59906	-0.00123	8.39726	0.42596	-0.00272	0.72416
0.01592	4.62019	1.51707	-0.05841	-3.14185	0.59485	-0.00123	8.43314	0.42683	-0.00299	0.72670
0.01630	4.66029	1.52056	-0.05667	-3.14713	0.59005	-0.00123	8.46921	0.42785	-0.00328	0.72961
0.01668	4.69575	1.52443	-0.05479	-3.15140	0.58445	-0.00124	8.49582	0.42916	-0.00360	0.73282
0.01707	4.72252	1.52855	-0.05274	-3.15393	0.57819	-0.00125	8.50578	0.43081	-0.00391	0.73616
0.01748	4.74453	1.53298	-0.05053	-3.15547	0.57176	-0.00126	8.50625	0.43270	-0.00422	0.73958
0.01789	4.76351	1.53776	-0.04816	-3.15626	0.56500	-0.00127	8.50077	0.43480	-0.00452	0.74314
0.01831	4.76218	1.54271	-0.04564	-3.15318	0.55689	-0.00129	8.46125	0.43748	-0.00482	0.74684
0.01874	4.73220	1.54780	-0.04294	-3.14481	0.54725	-0.00131	8.37472	0.44093	-0.00513	0.75071
0.01918	4.68107	1.55314	-0.04012	-3.13270	0.53664	-0.00134	8.25331	0.44497	-0.00538	0.75436
0.01963	4.60403	1.55847	-0.03729	-3.11595	0.52459	-0.00137	8.09035	0.44968	-0.00548	0.75708
0.02009	4.48877	1.56353	-0.03440	-3.09228	0.51041	-0.00140	7.87037	0.45529	-0.00541	0.75867
0.02057	4.34881	1.56868	-0.03143	-3.06444	0.49520	-0.00144	7.61670	0.46155	-0.00529	0.76002
0.02105	4.20871	1.57423	-0.02845	-3.03709	0.48086	-0.00147	7.36749	0.46788	-0.00523	0.76164
0.02154	4.08556	1.58031	-0.02562	-3.01338	0.46824	-0.00151	7.14718	0.47387	-0.00521	0.76330
0.02205	3.98331	1.58705	-0.02297	-2.99414	0.45715	-0.00154	6.95846	0.47945	-0.00522	0.76498
0.02257	3.88962	1.59442	-0.02033	-2.97729	0.44758	-0.00157	6.78250	0.48489	-0.00512	0.76588
0.02310	3.78981	1.60205	-0.01762	-2.96002	0.43926	-0.00160	6.60112	0.49042	-0.00476	0.76514
0.02364	3.67692	1.60897	-0.01495	-2.94037	0.43067	-0.00164	6.40704	0.49610	-0.00423	0.76323
0.02420	3.54194	1.61413	-0.01243	-2.91585	0.42052	-0.00167	6.18950	0.50208	-0.00369	0.76119
0.02477	3.37079	1.61752	-0.01004	-2.88383	0.40938	-0.00171	5.93223	0.50877	-0.00327	0.75969
0.02535	3.17287	1.62022	-0.00777	-2.84680	0.39887	-0.00175	5.64873	0.51612	-0.00295	0.75872
0.02595	2.97807	1.62259	-0.00564	-2.81034	0.38920	-0.00179	5.37501	0.52350	-0.00256	0.75721
0.02656	2.80378	1.62482	-0.00358	-2.77767	0.37926	-0.00182	5.12937	0.53053	-0.00182	0.75345
0.02719	2.64448	1.62774	-0.00148	-2.74855	0.36902	-0.00185	4.90381	0.53739	-0.00075	0.74747
0.02783	2.50073	1.63125	0.00061	-2.72316	0.35998	-0.00187	4.70088	0.54384	0.00037	0.74110
0.02848	2.38162	1.63442	0.00256	-2.70235	0.35375	-0.00189	4.53360	0.54931	0.00133	0.73590
0.02915	2.27672	1.63707	0.00434	-2.68394	0.35026	-0.00192	4.38926	0.55407	0.00197	0.73287
0.02984	2.16186	1.63929	0.00602	-2.66342	0.34778	-0.00195	4.23923	0.55903	0.00234	0.73188
0.03054	2.03446	1.64092	0.00742	-2.64000	0.34359	-0.00198	4.07908	0.56448	0.00272	0.73115
0.03126	1.89593	1.64152	0.00850	-2.61363	0.33613	-0.00200	3.91072	0.57037	0.00329	0.72914
0.03199	1.74185	1.64051	0.00944	-2.58299	0.32665	-0.00202	3.73352	0.57664	0.00391	0.72640
0.03275	1.58919	1.63829	0.01030	-2.55138	0.31841	-0.00205	3.56731	0.58262	0.00444	0.72399
0.03352	1.47109	1.63698	0.01093	-2.52657	0.31288	-0.00207	3.43989	0.58750	0.00495	0.72168
0.03430	1.40356	1.63735	0.01118	-2.51244	0.30870	-0.00209	3.35893	0.59094	0.00551	0.71914
0.03511	1.36823	1.63739	0.01109	-2.50444	0.30407	-0.00208	3.30237	0.59341	0.00604	0.71700
0.03594	1.34233	1.63600	0.01076	-2.49769	0.29959	-0.00208	3.25080	0.59540	0.00632	0.71652
0.03678	1.29733	1.63472	0.01054	-2.48817	0.29645	-0.00208	3.18353	0.59787	0.00638	0.71756
0.03765	1.20832	1.63477	0.01065	-2.47226	0.29415	-0.00209	3.08095	0.60185	0.00647	0.71854
0.03854	1.07059	1.63532	0.01112	-2.44828	0.29126	-0.00211	2.94024	0.60760	0.00663	0.71924
0.03944	0.90105	1.63457	0.01181	-2.41735	0.28726	-0.00215	2.77831	0.61448	0.00663	0.72103
0.04037	0.74611	1.63177	0.01227	-2.38683	0.28422	-0.00218	2.63546	0.62065	0.00650	0.72364
0.04132	0.64725	1.62753	0.01211	-2.36460	0.28410	-0.00221	2.54416	0.62444	0.00649	0.72517
0.04229	0.60162	1.62280	0.01137	-2.35114	0.28599	-0.00223	2.49824	0.62604	0.00680	0.72419
0.04329	0.57921	1.61836	0.01037	-2.34220	0.28674	-0.00223	2.46872	0.62692	0.00762	0.71967
0.04431	0.56751	1.61502	0.00929	-2.33663	0.28446	-0.00222	2.44271	0.62782	0.00888	0.71217
0.04535	0.56973	1.61331	0.00820	-2.33555	0.28071	-0.00219	2.42426	0.62851	0.01011	0.70484

0.04642	0.57424	1.61265	0.00719	-2.33618	0.27786	-0.00217	2.40838	0.62907	0.01094	0.70026
0.04751	0.56156	1.61155	0.00609	-2.33331	0.27554	-0.00215	2.38262	0.63002	0.01134	0.69850
0.04863	0.52881	1.60837	0.00452	-2.32478	0.27164	-0.00215	2.34440	0.63137	0.01148	0.69834
0.04977	0.47569	1.60207	0.00255	-2.30971	0.26541	-0.00214	2.29266	0.63310	0.01164	0.69766
0.05094	0.39614	1.59309	0.00070	-2.28753	0.25880	-0.00215	2.22377	0.63544	0.01207	0.69484
0.05214	0.29258	1.58267	-0.00070	-2.25992	0.25464	-0.00218	2.14051	0.63838	0.01261	0.69102
0.05337	0.18030	1.57160	-0.00179	-2.23051	0.25402	-0.00221	2.05308	0.64149	0.01303	0.68796
0.05462	0.06265	1.56069	-0.00267	-2.20055	0.25511	-0.00224	1.96200	0.64502	0.01342	0.68542
0.05591	-0.05596	1.55140	-0.00343	-2.17172	0.25583	-0.00227	1.87099	0.64913	0.01375	0.68361
0.05722	-0.15304	1.54532	-0.00429	-2.14916	0.25609	-0.00229	1.79768	0.65288	0.01375	0.68445
0.05857	-0.19722	1.54261	-0.00570	-2.13888	0.25641	-0.00229	1.76214	0.65465	0.01328	0.68875
0.05995	-0.18372	1.54196	-0.00778	-2.14106	0.25607	-0.00226	1.76432	0.65407	0.01258	0.69468
0.06136	-0.12952	1.54189	-0.01032	-2.15143	0.25531	-0.00222	1.79261	0.65167	0.01200	0.69950
0.06280	-0.04970	1.54175	-0.01307	-2.16658	0.25576	-0.00218	1.83888	0.64795	0.01165	0.70231
0.06428	0.04640	1.54182	-0.01584	-2.18500	0.25862	-0.00214	1.89896	0.64326	0.01142	0.70370
0.06579	0.14525	1.54309	-0.01839	-2.20503	0.26475	-0.00211	1.96545	0.63825	0.01136	0.70375
0.06734	0.23228	1.54523	-0.02070	-2.22382	0.27406	-0.00210	2.02785	0.63355	0.01156	0.70215
0.06893	0.29378	1.54601	-0.02301	-2.23705	0.28461	-0.00211	2.07361	0.62959	0.01206	0.69889
0.07055	0.31835	1.54317	-0.02560	-2.24061	0.29366	-0.00213	2.09201	0.62674	0.01283	0.69438
0.07221	0.29375	1.53599	-0.02840	-2.23131	0.29945	-0.00215	2.07366	0.62556	0.01365	0.68985
0.07391	0.21931	1.52544	-0.03113	-2.20962	0.30231	-0.00218	2.01917	0.62624	0.01428	0.68660
0.07565	0.11727	1.51312	-0.03367	-2.18106	0.30324	-0.00221	1.94545	0.62808	0.01470	0.68451
0.07743	0.01338	1.50020	-0.03612	-2.15162	0.30246	-0.00224	1.87089	0.63012	0.01510	0.68225
0.07925	-0.08272	1.48747	-0.03847	-2.12383	0.29953	-0.00225	1.80280	0.63202	0.01559	0.67924
0.08111	-0.17112	1.47585	-0.04058	-2.09836	0.29477	-0.00224	1.74285	0.63373	0.01610	0.67614
0.08302	-0.24873	1.46653	-0.04232	-2.07674	0.28939	-0.00224	1.69488	0.63510	0.01648	0.67401
0.08498	-0.30180	1.46042	-0.04389	-2.06230	0.28535	-0.00223	1.66905	0.63534	0.01652	0.67418
0.08697	-0.32301	1.45764	-0.04565	-2.05665	0.28473	-0.00222	1.66959	0.63400	0.01613	0.67740
0.08902	-0.31070	1.45721	-0.04799	-2.05953	0.28861	-0.00222	1.69512	0.63094	0.01543	0.68285
0.09112	-0.26823	1.45695	-0.05117	-2.06866	0.29539	-0.00221	1.73987	0.62635	0.01470	0.68870
0.09326	-0.20453	1.45476	-0.05519	-2.08052	0.30257	-0.00220	1.79612	0.62063	0.01412	0.69373
0.09545	-0.12644	1.44999	-0.05987	-2.09311	0.30997	-0.00217	1.86079	0.61400	0.01369	0.69774
0.09770	-0.04520	1.44370	-0.06476	-2.10508	0.31876	-0.00215	1.92949	0.60695	0.01339	0.70066
0.10000	0.02289	1.43773	-0.06936	-2.11498	0.33007	-0.00213	1.99251	0.60036	0.01324	0.70243
0.10235	0.05687	1.43319	-0.07320	-2.11977	0.34293	-0.00214	2.03310	0.59542	0.01318	0.70351
0.10476	0.04017	1.43008	-0.07602	-2.11617	0.35513	-0.00217	2.03632	0.59306	0.01316	0.70445
0.10723	-0.02895	1.42773	-0.07786	-2.10317	0.36524	-0.00222	1.99962	0.59335	0.01316	0.70535
0.10975	-0.14313	1.42547	-0.07884	-2.08166	0.37283	-0.00228	1.92816	0.59598	0.01327	0.70565
0.11233	-0.28693	1.42294	-0.07914	-2.05451	0.37884	-0.00235	1.83402	0.60027	0.01353	0.70493
0.11498	-0.43515	1.41991	-0.07921	-2.02635	0.38486	-0.00241	1.73715	0.60492	0.01382	0.70378
0.11768	-0.57325	1.41589	-0.07953	-1.99943	0.39066	-0.00247	1.64788	0.60916	0.01401	0.70315
0.12045	-0.70264	1.41055	-0.08036	-1.97304	0.39475	-0.00252	1.56425	0.61312	0.01406	0.70333
0.12328	-0.83121	1.40387	-0.08168	-1.94548	0.39596	-0.00255	1.48114	0.61722	0.01394	0.70446
0.12619	-0.96717	1.39598	-0.08337	-1.91534	0.39358	-0.00258	1.39345	0.62197	0.01366	0.70657
0.12916	-1.09437	1.38760	-0.08556	-1.88643	0.38916	-0.00260	1.31321	0.62639	0.01337	0.70892
0.13219	-1.18863	1.37987	-0.08840	-1.86448	0.38556	-0.00260	1.25752	0.62881	0.01325	0.71037
0.13531	-1.24562	1.37385	-0.09175	-1.85130	0.38507	-0.00261	1.22983	0.62872	0.01343	0.70982
0.13849	-1.26539	1.36996	-0.09548	-1.84725	0.38809	-0.00261	1.23078	0.62594	0.01385	0.70722
0.14175	-1.24436	1.36775	-0.09964	-1.85258	0.39290	-0.00260	1.26325	0.62022	0.01427	0.70384
0.14508	-1.17763	1.36662	-0.10437	-1.86771	0.39818	-0.00258	1.33097	0.61143	0.01446	0.70121
0.14850	-1.06284	1.36641	-0.10966	-1.89315	0.40476	-0.00254	1.43810	0.59968	0.01440	0.69959
0.15199	-0.90164	1.36728	-0.11535	-1.92877	0.41435	-0.00248	1.58875	0.58537	0.01413	0.69903
0.15557	-0.71152	1.36892	-0.12119	-1.97079	0.42689	-0.00242	1.77479	0.56986	0.01361	0.70003
0.15923	-0.51882	1.37054	-0.12704	-2.01326	0.44074	-0.00236	1.97726	0.55479	0.01287	0.70266
0.16298	-0.34476	1.37147	-0.13287	-2.05139	0.45447	-0.00231	2.17707	0.54114	0.01200	0.70661
0.16681	-0.20826	1.37121	-0.13853	-2.08109	0.46649	-0.00228	2.35337	0.52966	0.01107	0.71157
0.17074	-0.11952	1.36962	-0.14388	-2.10027	0.47577	-0.00225	2.49129	0.52059	0.01008	0.71758
0.17475	-0.07579	1.36694	-0.14889	-2.10971	0.48247	-0.00223	2.58936	0.51365	0.00906	0.72441
0.17887	-0.06414	1.36370	-0.15357	-2.11246	0.48687	-0.00221	2.65753	0.50818	0.00810	0.73134
0.18307	-0.06681	1.36043	-0.15797	-2.11257	0.48929	-0.00219	2.71236	0.50338	0.00734	0.73744
0.18738	-0.07517	1.35733	-0.16211	-2.11198	0.48958	-0.00216	2.76215	0.49888	0.00679	0.74256
0.19179	-0.08673	1.35436	-0.16597	-2.11101	0.48779	-0.00212	2.80987	0.49454	0.00630	0.74761
0.19631	-0.10368	1.35155	-0.16954	-2.10913	0.48460	-0.00207	2.85286	0.49049	0.00576	0.75320
0.20092	-0.12887	1.34892	-0.17284	-2.10573	0.48086	-0.00202	2.88667	0.48690	0.00514	0.75946
0.20565	-0.16316	1.34647	-0.17598	-2.10057	0.47754	-0.00198	2.90920	0.48383	0.00447	0.76619
0.21049	-0.20937	1.34420	-0.17904	-2.09310	0.47565	-0.00195	2.91627	0.48140	0.00380	0.77310
0.21544	-0.26136	1.34227	-0.18203	-2.08463	0.47649	-0.00193	2.91509	0.47935	0.00316	0.78010
0.22051	-0.31590	1.34071	-0.18492	-2.07576	0.47963	-0.00192	2.90974	0.47753	0.00251	0.78753
0.22570	-0.37827	1.33954	-0.18760	-2.06538	0.48379	-0.00191	2.89449	0.47626	0.00183	0.79558
0.23101	-0.44951	1.33902	-0.18996	-2.05345	0.48848	-0.00191	2.86880	0.47564	0.00107	0.80430
0.23645	-0.52430	1.33955	-0.19195	-2.04134	0.49369	-0.00193	2.83951	0.47548	0.00028	0.81330
0.24201	-0.59689	1.34145	-0.19351	-2.03060	0.50010	-0.00195	2.81192	0.47564	-0.00050	0.82201
0.24771	-0.66235	1.34463	-0.19472	-2.02213	0.50784	-0.00197	2.79151	0.47585	-0.00126	0.83052
0.25354	-0.72118	1.34871	-0.19559	-2.01550	0.51633	-0.00200	2.77776	0.47607	-0.00208	0.83921
0.25950	-0.77949	1.35331	-0.19619	-2.00921	0.52438	-0.00203	2.76270	0.47657	-0.00295	0.84797
0.26561	-0.84561	1.35810	-0.19653	-2.00141	0.53121	-0.00207	2.73598	0.47770	-0.00384	0.85647
0.27186	-0.92532	1.36271	-0.19673	-1.99065	0.53653	-0.00211	2.69127	0.47965	-0.00473	0.86465
0.27826	-1.02560	1.36678	-0.19690	-1.97522	0.54048	-0.00215	2.62145	0.48270	-0.00559	0.87241
0.28480	-1.14768	1.37010	-0.19710	-1.95463	0.54303	-0.00221	2.52598	0.48693	-0.00641	0.87969
0.29150	-1.28571	1.37275	-0.19732	-1.93017	0.54502	-0.00227	2.41332	0.49205	-0.00717	0.88643
0.29836	-1.43890	1.37480	-0.19760	-1.90220	0.54721	-0.00234	2.28532	0.49805	-0.00781	0.89212

0.30539	-1.60976	1.37623	-0.19797	-1.87029	0.54952	-0.00242	2.14052	0.50515	-0.00825	0.89636
0.31257	-1.79698	1.37695	-0.19844	-1.83467	0.55153	-0.00251	1.98225	0.51336	-0.00847	0.89899
0.31993	-1.99630	1.37688	-0.19902	-1.79619	0.55300	-0.00261	1.81688	0.52251	-0.00847	0.89995
0.32745	-2.20467	1.37617	-0.19966	-1.75564	0.55315	-0.00270	1.64902	0.53256	-0.00821	0.89905
0.33517	-2.41227	1.37518	-0.20050	-1.71536	0.55214	-0.00279	1.48842	0.54308	-0.00770	0.89639
0.34304	-2.60449	1.37448	-0.20171	-1.67872	0.55043	-0.00286	1.34712	0.55325	-0.00694	0.89221
0.35112	-2.76925	1.37451	-0.20338	-1.64867	0.54973	-0.00292	1.23398	0.56199	-0.00600	0.88694
0.35938	-2.90174	1.37535	-0.20549	-1.62625	0.55062	-0.00297	1.15089	0.56858	-0.00497	0.88132
0.36784	-3.00349	1.37682	-0.20810	-1.61096	0.55297	-0.00301	1.09496	0.57276	-0.00388	0.87553
0.37649	-3.07890	1.37883	-0.21122	-1.60175	0.55674	-0.00304	1.06199	0.57456	-0.00273	0.86961
0.38536	-3.13395	1.38148	-0.21474	-1.59759	0.56277	-0.00307	1.04733	0.57432	-0.00149	0.86316
0.39442	-3.17151	1.38480	-0.21856	-1.59796	0.57100	-0.00310	1.04920	0.57213	-0.00016	0.85617
0.40370	-3.19355	1.38848	-0.22268	-1.60225	0.58036	-0.00313	1.06622	0.56808	0.00118	0.84911
0.41321	-3.20499	1.39185	-0.22719	-1.60869	0.58918	-0.00315	1.09468	0.56259	0.00238	0.84299
0.42292	-3.21266	1.39490	-0.23210	-1.61580	0.59728	-0.00317	1.13005	0.55629	0.00346	0.83789
0.43288	-3.22301	1.39741	-0.23735	-1.62207	0.60426	-0.00319	1.16821	0.54955	0.00437	0.83408
0.44307	-3.23579	1.39935	-0.24296	-1.62767	0.60915	-0.00321	1.20824	0.54248	0.00507	0.83204
0.45349	-3.25028	1.40087	-0.24890	-1.63307	0.61191	-0.00321	1.25015	0.53514	0.00556	0.83195
0.46417	-3.26830	1.40211	-0.25518	-1.63803	0.61224	-0.00320	1.29254	0.52768	0.00582	0.83379
0.47508	-3.29416	1.40316	-0.26174	-1.64183	0.60922	-0.00318	1.33132	0.52045	0.00594	0.83692
0.48626	-3.33444	1.40380	-0.26848	-1.64285	0.60219	-0.00316	1.36063	0.51388	0.00594	0.84113
0.49771	-3.39196	1.40392	-0.27538	-1.64029	0.59248	-0.00313	1.37814	0.50806	0.00588	0.84583
0.50942	-3.46204	1.40360	-0.28251	-1.63533	0.58105	-0.00309	1.38798	0.50253	0.00593	0.84991
0.52140	-3.54307	1.40315	-0.28977	-1.62864	0.56877	-0.00305	1.39297	0.49700	0.00616	0.85275
0.53367	-3.63918	1.40268	-0.29683	-1.61947	0.55594	-0.00302	1.39074	0.49165	0.00654	0.85427
0.54624	-3.74730	1.40208	-0.30363	-1.60823	0.54246	-0.00298	1.38380	0.48633	0.00703	0.85470
0.55910	-3.86421	1.40124	-0.31018	-1.59528	0.52883	-0.00295	1.37520	0.48077	0.00756	0.85462
0.57225	-3.98569	1.40062	-0.31645	-1.58185	0.51528	-0.00291	1.36887	0.47475	0.00813	0.85397
0.58569	-4.10764	1.40083	-0.32243	-1.56937	0.50514	-0.00288	1.36875	0.46807	0.00885	0.85202
0.59948	-4.22957	1.40187	-0.32806	-1.55810	0.49832	-0.00286	1.37523	0.46074	0.00980	0.84823
0.61357	-4.35026	1.40352	-0.33334	-1.54794	0.49492	-0.00285	1.38824	0.45282	0.01099	0.84253
0.62802	-4.46971	1.40571	-0.33834	-1.53877	0.49524	-0.00285	1.40877	0.44424	0.01238	0.83516
0.64280	-4.58612	1.40833	-0.34312	-1.53087	0.49686	-0.00285	1.43827	0.43487	0.01392	0.82631
0.65794	-4.70318	1.41148	-0.34758	-1.52346	0.50002	-0.00285	1.47404	0.42500	0.01556	0.81623
0.67340	-4.82257	1.41505	-0.35176	-1.51585	0.50480	-0.00287	1.51259	0.41503	0.01724	0.80552
0.68927	-4.94677	1.41874	-0.35576	-1.50722	0.50993	-0.00288	1.54990	0.40528	0.01892	0.79471
0.70547	-5.07255	1.42245	-0.35962	-1.49798	0.51516	-0.00290	1.58744	0.39570	0.02056	0.78401
0.72207	-5.19866	1.42632	-0.36340	-1.48857	0.52038	-0.00293	1.62819	0.38605	0.02215	0.77324
0.73910	-5.32496	1.43062	-0.36704	-1.47929	0.52535	-0.00295	1.67319	0.37634	0.02372	0.76201
0.75649	-5.45033	1.43540	-0.37052	-1.47041	0.53017	-0.00297	1.72281	0.36663	0.02529	0.75021
0.77429	-5.57397	1.44052	-0.37387	-1.46200	0.53494	-0.00299	1.77696	0.35696	0.02682	0.73789
0.79246	-5.69443	1.44573	-0.37709	-1.45412	0.53974	-0.00301	1.83496	0.34746	0.02826	0.72530
0.81116	-5.81316	1.45101	-0.38022	-1.44659	0.54461	-0.00303	1.89623	0.33812	0.02961	0.71266
0.83022	-5.93022	1.45643	-0.38320	-1.43934	0.54939	-0.00305	1.95852	0.32913	0.03083	0.70044
0.84976	-6.04786	1.46226	-0.38603	-1.43224	0.55410	-0.00306	2.02091	0.32050	0.03190	0.68887
0.86972	-6.16654	1.46864	-0.38865	-1.42528	0.55872	-0.00308	2.08211	0.31233	0.03281	0.67837
0.89023	-6.28707	1.47557	-0.39109	-1.41841	0.56330	-0.00310	2.14167	0.30459	0.03355	0.66932
0.91116	-6.40815	1.48281	-0.39336	-1.41160	0.56777	-0.00311	2.19802	0.29737	0.03413	0.66212
0.93257	-6.52962	1.49018	-0.39551	-1.40475	0.57209	-0.00313	2.25057	0.29066	0.03458	0.65671
0.95456	-6.65169	1.49761	-0.39754	-1.39783	0.57625	-0.00314	2.29915	0.28442	0.03492	0.65295
0.97704	-6.77403	1.50515	-0.39945	-1.39090	0.58023	-0.00316	2.34369	0.27865	0.03514	0.65074
1.00000	-6.89685	1.51296	-0.40122	-1.38408	0.58411	-0.00317	2.38502	0.27329	0.03526	0.64998
1.02354	-7.02100	1.52127	-0.40285	-1.37743	0.58792	-0.00319	2.42395	0.26829	0.03526	0.65053
1.04767	-7.14654	1.53013	-0.40432	-1.37099	0.59170	-0.00320	2.46093	0.26360	0.03515	0.65223
1.07227	-7.27252	1.53942	-0.40565	-1.36480	0.59543	-0.00321	2.49592	0.25924	0.03496	0.65488
1.09745	-7.39885	1.54902	-0.40686	-1.35879	0.59909	-0.00322	2.52898	0.25517	0.03470	0.65831
1.12334	-7.52536	1.55877	-0.40800	-1.35294	0.60269	-0.00324	2.56028	0.25136	0.03440	0.66234
1.14982	-7.65093	1.56851	-0.40907	-1.34726	0.60623	-0.00325	2.58967	0.24782	0.03408	0.66681
1.17675	-7.77485	1.57815	-0.41006	-1.34178	0.60971	-0.00326	2.61710	0.24454	0.03376	0.67151
1.20453	-7.89917	1.58794	-0.41097	-1.33648	0.61325	-0.00327	2.64350	0.24146	0.03343	0.67634
1.23289	-8.02309	1.59793	-0.41176	-1.33145	0.61687	-0.00328	2.66907	0.23858	0.03309	0.68109
1.26183	-8.14701	1.60824	-0.41242	-1.32673	0.62061	-0.00329	2.69421	0.23588	0.03274	0.68572
1.29149	-8.27182	1.61901	-0.41293	-1.32231	0.62453	-0.00330	2.71938	0.23332	0.03235	0.69034
1.32188	-8.39746	1.63024	-0.41330	-1.31820	0.62863	-0.00331	2.74471	0.23090	0.03194	0.69502
1.35300	-8.52359	1.64185	-0.41353	-1.31441	0.63292	-0.00332	2.77016	0.22861	0.03150	0.69986
1.38485	-8.64968	1.65371	-0.41365	-1.31090	0.63737	-0.00333	2.79553	0.22646	0.03104	0.70496
1.41743	-8.77524	1.66568	-0.41367	-1.30766	0.64194	-0.00333	2.82046	0.22445	0.03058	0.71042
1.45075	-8.89997	1.67763	-0.41361	-1.30462	0.64658	-0.00334	2.84439	0.22261	0.03012	0.71628
1.48500	-9.02453	1.68958	-0.41347	-1.30173	0.65129	-0.00335	2.86696	0.22094	0.02966	0.72256
1.51999	-9.14825	1.70145	-0.41326	-1.29899	0.65600	-0.00336	2.88769	0.21945	0.02921	0.72924
1.55569	-9.27134	1.71330	-0.41296	-1.29640	0.66072	-0.00337	2.90658	0.21814	0.02874	0.73630
1.59236	-9.39496	1.72529	-0.41255	-1.29393	0.66549	-0.00337	2.92382	0.21700	0.02826	0.74380
1.62973	-9.51864	1.73743	-0.41202	-1.29162	0.67027	-0.00338	2.93947	0.21601	0.02775	0.75169
1.66806	-9.64346	1.74987	-0.41137	-1.28945	0.67512	-0.00339	2.95388	0.21516	0.02721	0.76001
1.70736	-9.76953	1.76265	-0.41057	-1.28744	0.68005	-0.00339	2.96733	0.21441	0.02663	0.76877
1.74764	-9.89684	1.77578	-0.40964	-1.28558	0.68505	-0.00340	2.97999	0.21377	0.02602	0.77795
1.78859	-10.02422	1.78912	-0.40859	-1.28389	0.69007	-0.00341	2.99190	0.21322	0.02537	0.78746
1.83083	-10.15334	1.80279	-0.40741	-1.28231	0.69519	-0.00341	3.00330	0.21273	0.02470	0.79741
1.87371	-10.28185	1.81650	-0.40612	-1.28087	0.70030	-0.00342	3.01403	0.21232	0.02403	0.80758
1.91791	-10.41143	1.83037	-0.40473	-1.27952	0.70546	-0.00342	3.02421	0.21197	0.02335	0.81803
1.96309	-10.54073	1.84423	-0.40324	-1.27826	0.71061	-0.00343	3.03369	0.21168	0.02269	0.82855

2.00924	-10.66951	1.85799	-0.40167	-1.27708	0.71574	-0.00343	3.04236	0.21144	0.02205	0.83896
2.05634	-10.79759	1.87163	-0.40002	-1.27596	0.72081	-0.00343	3.05015	0.21127	0.02144	0.84913
2.10482	-10.92604	1.88523	-0.39828	-1.27489	0.72589	-0.00344	3.05713	0.21115	0.02086	0.85897
2.15424	-11.05371	1.89870	-0.39645	-1.27389	0.73091	-0.00344	3.06332	0.21108	0.02031	0.86819
2.20507	-11.18188	1.91219	-0.39452	-1.27294	0.73593	-0.00345	3.06885	0.21106	0.01979	0.87678
2.25683	-11.30944	1.92560	-0.39250	-1.27206	0.74090	-0.00345	3.07384	0.21108	0.01929	0.88472
2.31000	-11.43772	1.93910	-0.39035	-1.27126	0.74589	-0.00345	3.07848	0.21112	0.01881	0.89219
2.36463	-11.56684	1.95274	-0.38808	-1.27053	0.75089	-0.00345	3.08290	0.21119	0.01833	0.89931
2.42014	-11.69557	1.96641	-0.38571	-1.26990	0.75587	-0.00346	3.08720	0.21128	0.01786	0.90613
2.47709	-11.82520	1.98025	-0.38321	-1.26937	0.76088	-0.00346	3.09164	0.21137	0.01739	0.91290
2.53550	-11.95572	1.99427	-0.38057	-1.26893	0.76591	-0.00346	3.09617	0.21147	0.01692	0.91978
2.59471	-12.08570	2.00834	-0.37785	-1.26857	0.77090	-0.00346	3.10069	0.21158	0.01644	0.92684
2.65604	-12.21784	2.02269	-0.37496	-1.26830	0.77595	-0.00346	3.10548	0.21169	0.01594	0.93430
2.71887	-12.35060	2.03719	-0.37196	-1.26811	0.78100	-0.00346	3.11032	0.21180	0.01544	0.94213
2.78242	-12.48232	2.05163	-0.36888	-1.26799	0.78598	-0.00346	3.11518	0.21192	0.01493	0.95028
2.84819	-12.61570	2.06625	-0.36565	-1.26795	0.79099	-0.00346	3.12031	0.21203	0.01442	0.95901
2.91545	-12.74929	2.08097	-0.36236	-1.26795	0.79598	-0.00346	3.12526	0.21215	0.01392	0.96826
2.98329	-12.88088	2.09538	-0.35897	-1.26802	0.80085	-0.00346	3.13039	0.21226	0.01342	0.97779
3.05344	-13.01384	2.10999	-0.35551	-1.26813	0.80573	-0.00346	3.13530	0.21238	0.01293	0.98760
3.12598	-13.14802	2.12463	-0.35187	-1.26830	0.81060	-0.00346	3.14036	0.21251	0.01245	0.99752
3.19898	-13.27960	2.13897	-0.34827	-1.26848	0.81533	-0.00346	3.14509	0.21263	0.01200	1.00696
3.27439	-13.41229	2.15333	-0.34451	-1.26873	0.82004	-0.00345	3.14986	0.21276	0.01157	1.01593
3.35121	-13.54374	2.16752	-0.34074	-1.26899	0.82466	-0.00345	3.15443	0.21288	0.01117	1.02414
3.43053	-13.67626	2.18171	-0.33679	-1.26930	0.82925	-0.00345	3.15899	0.21302	0.01078	1.03195
3.51124	-13.80732	2.19572	-0.33289	-1.26962	0.83375	-0.00344	3.16330	0.21315	0.01042	1.03945
3.59324	-13.93721	2.20943	-0.32881	-1.27001	0.83814	-0.00344	3.16776	0.21328	0.01007	1.04702
3.67782	-14.06783	2.22332	-0.32481	-1.27038	0.84251	-0.00344	3.17172	0.21342	0.00974	1.05505
3.76506	-14.19864	2.23689	-0.32047	-1.27086	0.84681	-0.00343	3.17644	0.21354	0.00940	1.06400
3.85356	-14.32898	2.25075	-0.31636	-1.27128	0.85106	-0.00343	3.18008	0.21368	0.00909	1.07356
3.94477	-14.45838	2.26396	-0.31187	-1.27185	0.85521	-0.00342	3.18511	0.21379	0.00877	1.08382
4.03714	-14.58815	2.27767	-0.30758	-1.27236	0.85932	-0.00342	3.18889	0.21392	0.00848	1.09421
4.13223	-14.71658	2.29085	-0.30312	-1.27295	0.86336	-0.00341	3.19365	0.21402	0.00819	1.10471
4.23012	-14.84655	2.30416	-0.29840	-1.27364	0.86735	-0.00341	3.19855	0.21413	0.00791	1.11499
4.32900	-14.97534	2.31778	-0.29407	-1.27422	0.87130	-0.00340	3.20243	0.21424	0.00765	1.12444
4.43066	-15.10196	2.33031	-0.28915	-1.27502	0.87510	-0.00339	3.20837	0.21430	0.00739	1.13338
4.53515	-15.23238	2.34399	-0.28446	-1.27574	0.87897	-0.00339	3.21272	0.21441	0.00715	1.14162
4.64253	-15.36101	2.35728	-0.27983	-1.27648	0.88277	-0.00338	3.21772	0.21447	0.00692	1.14925
4.75059	-15.48619	2.36949	-0.27462	-1.27743	0.88636	-0.00337	3.22415	0.21453	0.00668	1.15633
4.86145	-15.61580	2.38333	-0.26997	-1.27822	0.89007	-0.00336	3.22844	0.21462	0.00647	1.16273
4.97760	-15.74402	2.39631	-0.26507	-1.27911	0.89372	-0.00336	3.23436	0.21464	0.00625	1.16885
5.09424	-15.86919	2.40832	-0.25955	-1.28021	0.89714	-0.00335	3.24133	0.21470	0.00602	1.17461
5.21376	-15.99967	2.42234	-0.25478	-1.28110	0.90074	-0.00334	3.24593	0.21476	0.00582	1.17981
5.33618	-16.12493	2.43507	-0.24998	-1.28204	0.90418	-0.00333	3.25194	0.21477	0.00563	1.18481
5.46150	-16.24764	2.44633	-0.24417	-1.28328	0.90738	-0.00332	3.25960	0.21480	0.00539	1.18989
5.58971	-16.37717	2.45996	-0.23906	-1.28433	0.91078	-0.00331	3.26492	0.21486	0.00519	1.19469
5.72082	-16.50406	2.47351	-0.23455	-1.28525	0.91416	-0.00330	3.27027	0.21485	0.00502	1.19943
5.85823	-16.62531	2.48405	-0.22856	-1.28660	0.91719	-0.00329	3.27851	0.21487	0.00478	1.20486
5.99520	-16.74992	2.49609	-0.22281	-1.28789	0.92026	-0.00328	3.28503	0.21494	0.00456	1.21021
6.13497	-16.87929	2.51045	-0.21830	-1.28887	0.92354	-0.00327	3.28996	0.21493	0.00439	1.21535
6.28141	-17.00029	2.52193	-0.21322	-1.29003	0.92652	-0.00326	3.29706	0.21490	0.00419	1.22100
6.42674	-17.11404	2.53101	-0.20692	-1.29150	0.92911	-0.00325	3.30464	0.21499	0.00395	1.22701
6.57895	-17.24005	2.54338	-0.20119	-1.29284	0.93202	-0.00324	3.31071	0.21506	0.00374	1.23305
6.73401	-17.36973	2.55797	-0.19687	-1.29386	0.93515	-0.00323	3.31615	0.21500	0.00359	1.23881
6.89180	-17.48232	2.56767	-0.19174	-1.29510	0.93772	-0.00322	3.32327	0.21498	0.00339	1.24507
7.05716	-17.59357	2.57529	-0.18492	-1.29673	0.94002	-0.00321	3.33034	0.21514	0.00312	1.25196
7.22022	-17.71117	2.58590	-0.17905	-1.29814	0.94252	-0.00320	3.33596	0.21525	0.00290	1.25826
7.39098	-17.84005	2.60015	-0.17448	-1.29928	0.94539	-0.00319	3.34161	0.21520	0.00276	1.26409
7.56430	-17.95330	2.61075	-0.17012	-1.30039	0.94787	-0.00318	3.34819	0.21513	0.00261	1.26975
7.73994	-18.04721	2.61470	-0.16346	-1.30197	0.94960	-0.00317	3.35371	0.21536	0.00233	1.27583
7.92393	-18.15417	2.62164	-0.15677	-1.30356	0.95160	-0.00316	3.35851	0.21560	0.00206	1.28147
8.11030	-18.26962	2.63161	-0.15093	-1.30498	0.95382	-0.00315	3.36305	0.21574	0.00185	1.28634
8.29876	-18.39358	2.64531	-0.14677	-1.30610	0.95636	-0.00313	3.36864	0.21568	0.00174	1.29027
8.49618	-18.49185	2.65160	-0.14194	-1.30731	0.95823	-0.00312	3.37395	0.21573	0.00155	1.29455
8.69565	-18.56672	2.65035	-0.13483	-1.30890	0.95934	-0.00312	3.37677	0.21612	0.00122	1.29952
8.90472	-18.65893	2.65342	-0.12797	-1.31046	0.96083	-0.00311	3.37965	0.21643	0.00093	1.30417
9.11577	-18.75517	2.65812	-0.12158	-1.31193	0.96241	-0.00310	3.38232	0.21669	0.00067	1.30859
9.32836	-18.87138	2.66899	-0.11631	-1.31327	0.96445	-0.00309	3.38521	0.21687	0.00049	1.31250
9.54198	-18.97152	2.67695	-0.11219	-1.31435	0.96623	-0.00308	3.38908	0.21692	0.00034	1.31642
9.76563	-19.01803	2.66980	-0.10638	-1.31551	0.96679	-0.00308	3.39170	0.21713	0.00004	1.32197
10.00000	-19.06392	2.66166	-0.09980	-1.31674	0.96727	-0.00308	3.39415	0.21732	-0.00030	1.32840

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Low stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 30 - 61 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	0.65948	2.15855	-0.16153	-2.99281	1.12605	-0.00093	10.92649	0.26086	0.01736	0.32284
PGV	10.19037	1.61429	-0.19041	-3.76284	1.15770	-0.00026	18.38106	0.24959	0.01655	0.35179
PGA	4.12573	1.55761	-0.06975	-3.15558	0.61735	-0.00097	7.77373	0.43619	-0.02429	0.73630
0.01000	4.20235	1.56616	-0.06846	-3.16595	0.60411	-0.00097	7.88088	0.43809	0.00024	0.68619
0.01024	4.21717	1.56661	-0.06824	-3.16846	0.60393	-0.00097	7.89863	0.43801	0.00022	0.68667
0.01048	4.23401	1.56709	-0.06801	-3.17132	0.60379	-0.00097	7.91926	0.43791	0.00019	0.68713
0.01072	4.25309	1.56761	-0.06777	-3.17457	0.60368	-0.00097	7.94303	0.43777	0.00015	0.68757
0.01097	4.27462	1.56818	-0.06750	-3.17825	0.60360	-0.00096	7.97026	0.43760	0.00011	0.68801
0.01123	4.29894	1.56879	-0.06722	-3.18242	0.60356	-0.00096	8.00145	0.43739	0.00006	0.68845
0.01150	4.32636	1.56947	-0.06692	-3.18713	0.60356	-0.00096	8.03699	0.43714	0.00001	0.68889
0.01177	4.35741	1.57022	-0.06659	-3.19247	0.60359	-0.00095	8.07767	0.43684	-0.00005	0.68935
0.01205	4.39248	1.57105	-0.06623	-3.19853	0.60366	-0.00095	8.12405	0.43649	-0.00012	0.68982
0.01233	4.43187	1.57197	-0.06583	-3.20533	0.60378	-0.00094	8.17655	0.43608	-0.00019	0.69033
0.01262	4.47603	1.57300	-0.06541	-3.21297	0.60395	-0.00094	8.23587	0.43562	-0.00028	0.69089
0.01292	4.52558	1.57415	-0.06494	-3.22154	0.60417	-0.00093	8.30297	0.43510	-0.00038	0.69151
0.01322	4.58137	1.57543	-0.06442	-3.23120	0.60443	-0.00093	8.37914	0.43451	-0.00049	0.69220
0.01353	4.64404	1.57686	-0.06385	-3.24203	0.60474	-0.00092	8.46538	0.43384	-0.00060	0.69295
0.01385	4.71380	1.57846	-0.06322	-3.25408	0.60507	-0.00091	8.56185	0.43310	-0.00073	0.69379
0.01417	4.79074	1.58025	-0.06252	-3.26737	0.60542	-0.00090	8.66862	0.43230	-0.00087	0.69473
0.01451	4.87425	1.58227	-0.06173	-3.28177	0.60574	-0.00089	8.78457	0.43148	-0.00103	0.69584
0.01485	4.96340	1.58456	-0.06085	-3.29712	0.60596	-0.00088	8.90795	0.43066	-0.00121	0.69715
0.01520	5.05758	1.58711	-0.05986	-3.31329	0.60603	-0.00087	9.03792	0.42988	-0.00141	0.69870
0.01556	5.15693	1.58991	-0.05874	-3.33026	0.60597	-0.00086	9.17489	0.42913	-0.00164	0.70054
0.01592	5.26196	1.59299	-0.05749	-3.34808	0.60588	-0.00085	9.32023	0.42839	-0.00191	0.70273
0.01630	5.37153	1.59638	-0.05611	-3.36654	0.60569	-0.00085	9.47206	0.42771	-0.00222	0.70530
0.01668	5.48400	1.60014	-0.05460	-3.38543	0.60530	-0.00084	9.62692	0.42715	-0.00255	0.70816
0.01707	5.59762	1.60423	-0.05293	-3.40437	0.60468	-0.00083	9.78241	0.42671	-0.00290	0.71127
0.01748	5.70700	1.60856	-0.05108	-3.42229	0.60358	-0.00083	9.93059	0.42650	-0.00328	0.71462
0.01789	5.80244	1.61307	-0.04903	-3.43741	0.60165	-0.00083	10.05534	0.42669	-0.00365	0.71809
0.01831	5.88871	1.61771	-0.04681	-3.45056	0.59896	-0.00084	10.16440	0.42718	-0.00403	0.72171
0.01874	5.97529	1.62257	-0.04451	-3.46349	0.59561	-0.00084	10.27389	0.42778	-0.00442	0.72547
0.01918	6.05052	1.62778	-0.04216	-3.47432	0.59154	-0.00085	10.36398	0.42872	-0.00480	0.72918
0.01963	6.10704	1.63349	-0.03971	-3.48196	0.58673	-0.00086	10.41986	0.43016	-0.00512	0.73262
0.02009	6.14070	1.63970	-0.03713	-3.48581	0.58104	-0.00088	10.43325	0.43218	-0.00537	0.73567
0.02057	6.14097	1.64648	-0.03443	-3.48417	0.57462	-0.00090	10.38748	0.43495	-0.00554	0.73825
0.02105	6.09617	1.65341	-0.03157	-3.47474	0.56715	-0.00093	10.26698	0.43861	-0.00570	0.74080
0.02154	5.99798	1.65965	-0.02854	-3.45558	0.55800	-0.00097	10.06213	0.44320	-0.00590	0.74363
0.02205	5.85962	1.66546	-0.02548	-3.42950	0.54788	-0.00101	9.79336	0.44854	-0.00605	0.74602
0.02257	5.72255	1.67148	-0.02256	-3.40427	0.53808	-0.00105	9.52862	0.45386	-0.00609	0.74750
0.02310	5.62003	1.67790	-0.01982	-3.38550	0.52901	-0.00109	9.32314	0.45852	-0.00612	0.74883
0.02364	5.54099	1.68438	-0.01726	-3.37093	0.51998	-0.00111	9.15831	0.46272	-0.00616	0.75018
0.02420	5.43400	1.68980	-0.01481	-3.35105	0.50941	-0.00114	8.95173	0.46738	-0.00605	0.75043
0.02477	5.27006	1.69395	-0.01236	-3.32071	0.49732	-0.00117	8.66181	0.47309	-0.00572	0.74913
0.02535	5.07921	1.69786	-0.00989	-3.28558	0.48533	-0.00121	8.34135	0.47931	-0.00529	0.74720
0.02595	4.88439	1.70191	-0.00741	-3.24982	0.47358	-0.00125	8.02485	0.48568	-0.00485	0.74545
0.02656	4.69199	1.70615	-0.00493	-3.21490	0.46184	-0.00129	7.71505	0.49215	-0.00441	0.74381
0.02719	4.50672	1.71058	-0.00244	-3.18180	0.45095	-0.00132	7.41726	0.49860	-0.00403	0.74260
0.02783	4.31774	1.71501	0.00007	-3.14826	0.44031	-0.00136	7.11928	0.50523	-0.00382	0.74231
0.02848	4.09737	1.71965	0.00275	-3.10956	0.42808	-0.00140	6.78324	0.51283	-0.00370	0.74276
0.02915	3.83536	1.72502	0.00582	-3.06442	0.41443	-0.00144	6.40102	0.52172	-0.00358	0.74321
0.02984	3.54324	1.73054	0.00920	-3.01426	0.40114	-0.00149	6.00003	0.53140	-0.00346	0.74343
0.03054	3.25993	1.73476	0.01227	-2.96465	0.38972	-0.00155	5.63040	0.54071	-0.00337	0.74366
0.03126	3.01484	1.73728	0.01474	-2.92073	0.38040	-0.00160	5.31679	0.54896	-0.00321	0.74343
0.03199	2.78789	1.73879	0.01698	-2.87979	0.37137	-0.00164	5.02748	0.55686	-0.00293	0.74250
0.03275	2.56812	1.74030	0.01926	-2.84042	0.36242	-0.00168	4.75347	0.56474	-0.00265	0.74163
0.03352	2.36377	1.74230	0.02144	-2.80389	0.35454	-0.00172	4.50924	0.57227	-0.00244	0.74125
0.03430	2.15807	1.74390	0.02342	-2.76646	0.34596	-0.00176	4.27304	0.57995	-0.00215	0.74061
0.03511	1.94708	1.74409	0.02516	-2.72716	0.33556	-0.00179	4.03344	0.58802	-0.00175	0.73935
0.03594	1.76653	1.74344	0.02645	-2.69314	0.32497	-0.00181	3.82398	0.59536	-0.00137	0.73808
0.03678	1.62129	1.74276	0.02736	-2.66573	0.31586	-0.00182	3.65407	0.60156	-0.00105	0.73697
0.03765	1.47091	1.74237	0.02839	-2.63756	0.30838	-0.00184	3.48935	0.60780	-0.00068	0.73530
0.03854	1.28722	1.74212	0.02980	-2.60354	0.30026	-0.00187	3.30005	0.61535	-0.00012	0.73263
0.03944	1.08730	1.74048	0.03117	-2.56572	0.28821	-0.00189	3.09569	0.62394	0.00063	0.72901
0.04037	0.89918	1.73623	0.03207	-2.52793	0.27149	-0.00188	2.90149	0.63255	0.00148	0.72474
0.04132	0.72603	1.73130	0.03274	-2.49201	0.25430	-0.00188	2.72752	0.64077	0.00231	0.72031
0.04229	0.56679	1.72853	0.03349	-2.46017	0.24270	-0.00188	2.57853	0.64828	0.00303	0.71632
0.04329	0.42560	1.72799	0.03434	-2.43342	0.23843	-0.00191	2.45605	0.65475	0.00360	0.71329
0.04431	0.30671	1.72888	0.03518	-2.41177	0.23711	-0.00194	2.35620	0.66036	0.00415	0.71065
0.04535	0.20672	1.73101	0.03581	-2.39442	0.23358	-0.00195	2.27061	0.66565	0.00487	0.70711

0.04642	0.12045	1.73309	0.03605	-2.37950	0.22639	-0.00196	2.19411	0.67068	0.00573	0.70260
0.04751	0.05261	1.73312	0.03576	-2.36635	0.21820	-0.00196	2.13208	0.67465	0.00642	0.69867
0.04863	0.00360	1.73033	0.03493	-2.35426	0.21117	-0.00195	2.08557	0.67732	0.00680	0.69646
0.04977	-0.02794	1.72602	0.03355	-2.34405	0.20500	-0.00194	2.05099	0.67910	0.00712	0.69459
0.05094	-0.05350	1.72234	0.03199	-2.33549	0.19942	-0.00193	2.01984	0.68080	0.00774	0.69091
0.05214	-0.11840	1.71996	0.03115	-2.32092	0.19476	-0.00193	1.96572	0.68416	0.00858	0.68595
0.05337	-0.26322	1.71878	0.03171	-2.29305	0.19179	-0.00196	1.86620	0.69075	0.00930	0.68201
0.05462	-0.46016	1.71898	0.03323	-2.25741	0.19098	-0.00202	1.74023	0.69963	0.00970	0.68016
0.05591	-0.63512	1.71963	0.03445	-2.22652	0.19072	-0.00207	1.63030	0.70787	0.00976	0.68047
0.05722	-0.73949	1.71796	0.03431	-2.20643	0.18853	-0.00209	1.55944	0.71323	0.00965	0.68191
0.05857	-0.77082	1.71155	0.03246	-2.19522	0.18291	-0.00207	1.52475	0.71540	0.00955	0.68326
0.05995	-0.76275	1.70192	0.02942	-2.18820	0.17356	-0.00203	1.50712	0.71596	0.00956	0.68376
0.06136	-0.76677	1.69396	0.02642	-2.18062	0.16275	-0.00198	1.48253	0.71734	0.00960	0.68372
0.06280	-0.81109	1.69077	0.02441	-2.17013	0.15553	-0.00197	1.44220	0.72042	0.00957	0.68402
0.06428	-0.87937	1.69026	0.02334	-2.15777	0.15592	-0.00199	1.39846	0.72380	0.00947	0.68490
0.06579	-0.93783	1.68821	0.02254	-2.14591	0.16347	-0.00203	1.36734	0.72553	0.00938	0.68612
0.06734	-0.96814	1.68263	0.02132	-2.13615	0.17391	-0.00207	1.35399	0.72498	0.00947	0.68648
0.06893	-0.97262	1.67426	0.01931	-2.12866	0.18313	-0.00209	1.35423	0.72278	0.00981	0.68532
0.07055	-0.96321	1.66424	0.01633	-2.12205	0.18827	-0.00210	1.35981	0.72005	0.01025	0.68345
0.07221	-0.96393	1.65361	0.01267	-2.11276	0.18681	-0.00209	1.35582	0.71850	0.01070	0.68143
0.07391	-1.00072	1.64390	0.00902	-2.09756	0.17789	-0.00206	1.32731	0.71982	0.01111	0.67921
0.07565	-1.07691	1.63633	0.00588	-2.07721	0.16406	-0.00204	1.27386	0.72420	0.01135	0.67757
0.07743	-1.17423	1.63050	0.00335	-2.05506	0.15065	-0.00202	1.20837	0.73022	0.01124	0.67772
0.07925	-1.27151	1.62542	0.00143	-2.03426	0.14307	-0.00202	1.14509	0.73607	0.01092	0.67920
0.08111	-1.35647	1.62063	0.00001	-2.01648	0.14273	-0.00203	1.09170	0.74073	0.01073	0.68010
0.08302	-1.42315	1.61535	-0.00125	-2.00156	0.14643	-0.00204	1.05025	0.74397	0.01095	0.67867
0.08498	-1.46958	1.60873	-0.00286	-1.98865	0.15096	-0.00206	1.02053	0.74575	0.01169	0.67397
0.08697	-1.49389	1.60076	-0.00505	-1.97795	0.15630	-0.00207	1.00380	0.74579	0.01270	0.66753
0.08902	-1.49964	1.59252	-0.00775	-1.96980	0.16393	-0.00209	1.00006	0.74404	0.01356	0.66213
0.09112	-1.49733	1.58455	-0.01091	-1.96292	0.17298	-0.00212	1.00417	0.74124	0.01411	0.65895
0.09326	-1.49657	1.57611	-0.01474	-1.95527	0.18006	-0.00214	1.00805	0.73843	0.01449	0.65741
0.09545	-1.50321	1.56679	-0.01921	-1.94588	0.18255	-0.00215	1.00524	0.73642	0.01479	0.65704
0.09770	-1.52084	1.55699	-0.02381	-1.93464	0.18013	-0.00214	0.99349	0.73561	0.01491	0.65835
0.10000	-1.55220	1.54732	-0.02798	-1.92138	0.17375	-0.00211	0.97328	0.73604	0.01468	0.66191
0.10235	-1.60217	1.53846	-0.03145	-1.90542	0.16498	-0.00209	0.94438	0.73793	0.01418	0.66717
0.10476	-1.66363	1.53145	-0.03420	-1.88882	0.15836	-0.00208	0.91275	0.74057	0.01368	0.67253
0.10723	-1.70793	1.52783	-0.03647	-1.87835	0.16061	-0.00209	0.89510	0.74150	0.01343	0.67619
0.10975	-1.71690	1.52804	-0.03861	-1.87797	0.17450	-0.00213	0.90145	0.73901	0.01357	0.67684
0.11233	-1.69709	1.53085	-0.04088	-1.88552	0.19695	-0.00219	0.92750	0.73366	0.01406	0.67434
0.11498	-1.66843	1.53428	-0.04332	-1.89571	0.22153	-0.00225	0.96029	0.72734	0.01462	0.67041
0.11768	-1.63689	1.53634	-0.04603	-1.90569	0.24253	-0.00229	0.99305	0.72097	0.01495	0.66749
0.12045	-1.59504	1.53567	-0.04923	-1.91545	0.25637	-0.00231	1.02725	0.71439	0.01500	0.66684
0.12328	-1.54496	1.53147	-0.05317	-1.92363	0.26253	-0.00229	1.06154	0.70773	0.01491	0.66798
0.12619	-1.50495	1.52317	-0.05781	-1.92622	0.26284	-0.00226	1.08652	0.70191	0.01482	0.66993
0.12916	-1.49692	1.51123	-0.06271	-1.91954	0.25907	-0.00222	1.09089	0.69815	0.01475	0.67216
0.13219	-1.53180	1.49829	-0.06720	-1.90387	0.25363	-0.00219	1.07066	0.69719	0.01481	0.67333
0.13531	-1.60124	1.48734	-0.07085	-1.88337	0.24982	-0.00219	1.03321	0.69864	0.01513	0.67217
0.13849	-1.68506	1.47910	-0.07377	-1.86240	0.24878	-0.00220	0.99032	0.70136	0.01570	0.66852
0.14175	-1.76269	1.47217	-0.07658	-1.84357	0.24899	-0.00221	0.95154	0.70400	0.01641	0.66343
0.14508	-1.81872	1.46532	-0.07969	-1.82874	0.24909	-0.00221	0.92330	0.70546	0.01698	0.65895
0.14850	-1.85176	1.45874	-0.08298	-1.81841	0.24853	-0.00220	0.90634	0.70554	0.01711	0.65749
0.15199	-1.86746	1.45385	-0.08624	-1.81282	0.24815	-0.00218	0.89976	0.70446	0.01685	0.65915
0.15557	-1.88069	1.45173	-0.08926	-1.81008	0.24774	-0.00217	0.89797	0.70316	0.01647	0.66214
0.15923	-1.90798	1.45200	-0.09212	-1.80667	0.24706	-0.00216	0.89324	0.70264	0.01614	0.66535
0.16298	-1.95688	1.45315	-0.09497	-1.79999	0.24670	-0.00217	0.88095	0.70323	0.01585	0.66863
0.16681	-2.01605	1.45391	-0.09800	-1.79121	0.24758	-0.00219	0.86613	0.70394	0.01556	0.67196
0.17074	-2.07064	1.45408	-0.10123	-1.78306	0.25114	-0.00222	0.85599	0.70364	0.01522	0.67552
0.17475	-2.10622	1.45396	-0.10464	-1.77841	0.25959	-0.00225	0.85792	0.70127	0.01465	0.68052
0.17887	-2.11738	1.45324	-0.10822	-1.77775	0.27284	-0.00229	0.87444	0.69651	0.01362	0.68861
0.18307	-2.11606	1.45124	-0.11198	-1.77808	0.28810	-0.00234	0.89812	0.69055	0.01213	0.69970
0.18738	-2.11417	1.44798	-0.11591	-1.77754	0.30389	-0.00238	0.92131	0.68448	0.01063	0.71090
0.19179	-2.12273	1.44405	-0.11994	-1.77489	0.31992	-0.00243	0.93733	0.67923	0.00957	0.71916
0.19631	-2.14199	1.44008	-0.12405	-1.77071	0.33631	-0.00248	0.94561	0.67491	0.00911	0.72368
0.20092	-2.16577	1.43634	-0.12821	-1.76631	0.35187	-0.00251	0.94930	0.67120	0.00911	0.72527
0.20565	-2.18717	1.43300	-0.13236	-1.76304	0.36519	-0.00254	0.95262	0.66765	0.00932	0.72555
0.21049	-2.20569	1.43003	-0.13633	-1.76074	0.37529	-0.00255	0.95665	0.66417	0.00937	0.72660
0.21544	-2.22685	1.42716	-0.14002	-1.75791	0.38119	-0.00255	0.95825	0.66119	0.00907	0.72986
0.22051	-2.25497	1.42431	-0.14344	-1.75352	0.38247	-0.00254	0.95502	0.65906	0.00841	0.73543
0.22570	-2.28605	1.42197	-0.14664	-1.74867	0.38050	-0.00253	0.95046	0.65737	0.00751	0.74262
0.23101	-2.31052	1.42062	-0.14981	-1.74563	0.37854	-0.00252	0.95174	0.65516	0.00659	0.75001
0.23645	-2.31757	1.42028	-0.15327	-1.74667	0.37923	-0.00251	0.96611	0.65136	0.00589	0.75606
0.24201	-2.30545	1.42052	-0.15722	-1.75203	0.38277	-0.00250	0.99450	0.64579	0.00557	0.75955
0.24771	-2.28575	1.42061	-0.16166	-1.75912	0.38730	-0.00249	1.02966	0.63931	0.00565	0.76020
0.25354	-2.26703	1.42002	-0.16648	-1.76595	0.39065	-0.00247	1.06583	0.63258	0.00590	0.75966
0.25950	-2.25231	1.41886	-0.17159	-1.77201	0.39128	-0.00243	1.10069	0.62594	0.00601	0.76002
0.26561	-2.24573	1.41764	-0.17684	-1.77683	0.38843	-0.00238	1.13139	0.61982	0.00584	0.76220
0.27186	-2.25477	1.41692	-0.18212	-1.77926	0.38238	-0.00233	1.15336	0.61479	0.00550	0.76551
0.27826	-2.28759	1.41694	-0.18739	-1.77774	0.37389	-0.00228	1.16179	0.61133	0.00523	0.76833
0.28480	-2.34839	1.41776	-0.19261	-1.77145	0.36471	-0.00225	1.15386	0.60967	0.00523	0.76926
0.29150	-2.43297	1.41928	-0.19774	-1.76120	0.35738	-0.00224	1.13223	0.60946	0.00554	0.76814
0.29836	-2.53412	1.42101	-0.20280	-1.74807	0.35359	-0.00225	1.10076	0.61021	0.00597	0.76614

0.30539	-2.64652	1.42231	-0.20790	-1.73260	0.35309	-0.00228	1.06181	0.61163	0.00633	0.76436
0.31257	-2.76146	1.42294	-0.21308	-1.71629	0.35487	-0.00231	1.02005	0.61326	0.00651	0.76352
0.31993	-2.87225	1.42310	-0.21831	-1.70058	0.35788	-0.00233	0.98034	0.61467	0.00647	0.76407
0.32745	-2.97433	1.42315	-0.22341	-1.68653	0.36149	-0.00235	0.94658	0.61546	0.00622	0.76605
0.33517	-3.06691	1.42318	-0.22840	-1.67424	0.36567	-0.00236	0.91985	0.61550	0.00580	0.76929
0.34304	-3.14666	1.42323	-0.23329	-1.66421	0.37083	-0.00237	0.90266	0.61442	0.00520	0.77407
0.35112	-3.21158	1.42337	-0.23811	-1.65678	0.37695	-0.00238	0.89683	0.61193	0.00439	0.78070
0.35938	-3.26081	1.42361	-0.24282	-1.65209	0.38392	-0.00238	0.90282	0.60800	0.00339	0.78894
0.36784	-3.29777	1.42395	-0.24744	-1.64938	0.39121	-0.00239	0.91883	0.60293	0.00229	0.79814
0.37649	-3.32818	1.42443	-0.25190	-1.64755	0.39883	-0.00239	0.94155	0.59720	0.00121	0.80761
0.38536	-3.35688	1.42507	-0.25619	-1.64570	0.40698	-0.00240	0.96734	0.59139	0.00025	0.81673
0.39442	-3.38878	1.42584	-0.26024	-1.64293	0.41513	-0.00241	0.99220	0.58598	-0.00054	0.82502
0.40370	-3.42336	1.42690	-0.26402	-1.63959	0.42305	-0.00242	1.01631	0.58095	-0.00115	0.83226
0.41321	-3.45659	1.42836	-0.26755	-1.63671	0.43084	-0.00243	1.04171	0.57608	-0.00159	0.83836
0.42292	-3.48516	1.43039	-0.27086	-1.63519	0.43895	-0.00244	1.07037	0.57118	-0.00184	0.84296
0.43288	-3.50825	1.43310	-0.27397	-1.63544	0.44794	-0.00244	1.10340	0.56610	-0.00183	0.84569
0.44307	-3.52756	1.43635	-0.27688	-1.63698	0.45770	-0.00244	1.13924	0.56099	-0.00158	0.84660
0.45349	-3.54733	1.43995	-0.27966	-1.63874	0.46759	-0.00245	1.17407	0.55628	-0.00114	0.84629
0.46417	-3.56944	1.44387	-0.28231	-1.64014	0.47720	-0.00245	1.20638	0.55211	-0.00060	0.84547
0.47508	-3.59323	1.44802	-0.28483	-1.64111	0.48629	-0.00245	1.23715	0.54835	-0.00007	0.84491
0.48626	-3.61485	1.45228	-0.28728	-1.64226	0.49508	-0.00246	1.26967	0.54466	0.00038	0.84516
0.49771	-3.63414	1.45652	-0.28971	-1.64349	0.50319	-0.00246	1.30400	0.54105	0.00070	0.84647
0.50942	-3.65820	1.46057	-0.29212	-1.64318	0.50924	-0.00247	1.33444	0.53798	0.00090	0.84876
0.52140	-3.69567	1.46426	-0.29445	-1.63949	0.51170	-0.00248	1.35395	0.53594	0.00102	0.85161
0.53367	-3.75096	1.46748	-0.29676	-1.63167	0.51041	-0.00248	1.35786	0.53520	0.00118	0.85419
0.54624	-3.82332	1.47021	-0.29924	-1.62011	0.50599	-0.00249	1.34485	0.53582	0.00147	0.85572
0.55910	-3.91185	1.47279	-0.30187	-1.60552	0.50003	-0.00250	1.31597	0.53774	0.00192	0.85593
0.57225	-4.01285	1.47563	-0.30456	-1.58912	0.49347	-0.00251	1.27583	0.54062	0.00248	0.85523
0.58569	-4.12179	1.47900	-0.30727	-1.57227	0.48750	-0.00253	1.22920	0.54409	0.00306	0.85438
0.59948	-4.23238	1.48323	-0.31001	-1.55670	0.48385	-0.00256	1.18180	0.54771	0.00363	0.85375
0.61357	-4.33876	1.48839	-0.31284	-1.54370	0.48291	-0.00259	1.13812	0.55109	0.00416	0.85364
0.62802	-4.44082	1.49442	-0.31580	-1.53327	0.48326	-0.00261	1.09905	0.55409	0.00460	0.85445
0.64280	-4.53910	1.50108	-0.31884	-1.52512	0.48335	-0.00263	1.06493	0.55648	0.00496	0.85618
0.65794	-4.63521	1.50794	-0.32197	-1.51855	0.48245	-0.00264	1.03519	0.55816	0.00522	0.85872
0.67340	-4.73221	1.51461	-0.32520	-1.51240	0.47986	-0.00265	1.00751	0.55934	0.00533	0.86253
0.68927	-4.83095	1.52083	-0.32864	-1.50622	0.47564	-0.00264	0.98132	0.56000	0.00522	0.86833
0.70547	-4.92973	1.52655	-0.33239	-1.50019	0.46965	-0.00263	0.95789	0.56001	0.00490	0.87581
0.72207	-5.02937	1.53175	-0.33663	-1.49412	0.46154	-0.00261	0.93727	0.55924	0.00451	0.88380
0.73910	-5.12994	1.53645	-0.34152	-1.48782	0.45297	-0.00259	0.92019	0.55752	0.00416	0.89109
0.75649	-5.23009	1.54077	-0.34704	-1.48170	0.44598	-0.00258	0.90815	0.55459	0.00393	0.89692
0.77429	-5.33043	1.54480	-0.35307	-1.47583	0.44107	-0.00257	0.90096	0.55045	0.00382	0.90088
0.79246	-5.43016	1.54864	-0.35951	-1.47042	0.43916	-0.00257	0.89898	0.54517	0.00390	0.90236
0.81116	-5.53008	1.55232	-0.36624	-1.46554	0.44023	-0.00258	0.90261	0.53863	0.00422	0.90117
0.83022	-5.62944	1.55570	-0.37304	-1.46099	0.44460	-0.00260	0.91238	0.53080	0.00476	0.89741
0.84976	-5.72676	1.55901	-0.37984	-1.45731	0.45254	-0.00263	0.93097	0.52138	0.00554	0.89124
0.86972	-5.82276	1.56239	-0.38649	-1.45432	0.46229	-0.00267	0.95805	0.51065	0.00652	0.88327
0.89023	-5.92090	1.56572	-0.39290	-1.45116	0.47204	-0.00270	0.99170	0.49891	0.00756	0.87471
0.91116	-6.02146	1.56884	-0.39901	-1.44738	0.48122	-0.00273	1.03011	0.48659	0.00855	0.86671
0.93257	-6.12586	1.57166	-0.40480	-1.44262	0.49035	-0.00276	1.07151	0.47394	0.00947	0.85962
0.95456	-6.23735	1.57417	-0.41021	-1.43631	0.49856	-0.00279	1.11252	0.46131	0.01030	0.85338
0.97704	-6.35800	1.57655	-0.41518	-1.42807	0.50509	-0.00282	1.14968	0.44911	0.01111	0.84764
1.00000	-6.48796	1.57908	-0.41966	-1.41808	0.51021	-0.00285	1.18213	0.43743	0.01190	0.84222
1.02354	-6.62696	1.58203	-0.42364	-1.40669	0.51478	-0.00288	1.21049	0.42617	0.01268	0.83702
1.04767	-6.77492	1.58562	-0.42703	-1.39408	0.51839	-0.00291	1.23442	0.41540	0.01348	0.83172
1.07227	-6.92964	1.58991	-0.42984	-1.38065	0.52136	-0.00294	1.25480	0.40512	0.01435	0.82611
1.09745	-7.08817	1.59479	-0.43214	-1.36694	0.52405	-0.00298	1.27482	0.39505	0.01530	0.82024
1.12334	-7.24635	1.60012	-0.43400	-1.35375	0.52729	-0.00301	1.29944	0.38475	0.01631	0.81416
1.14982	-7.39934	1.60577	-0.43554	-1.34186	0.53230	-0.00304	1.33292	0.37400	0.01743	0.80779
1.17675	-7.54528	1.61161	-0.43680	-1.33146	0.53880	-0.00308	1.37648	0.36280	0.01863	0.80106
1.20453	-7.68665	1.61776	-0.43781	-1.32240	0.54629	-0.00311	1.43076	0.35113	0.01992	0.79391
1.23289	-7.82243	1.62434	-0.43854	-1.31489	0.55439	-0.00314	1.49489	0.33928	0.02125	0.78647
1.26183	-7.95372	1.63149	-0.43898	-1.30882	0.56273	-0.00317	1.56738	0.32751	0.02257	0.77894
1.29149	-8.08164	1.63933	-0.43914	-1.30419	0.57154	-0.00319	1.64773	0.31592	0.02384	0.77164
1.32188	-8.20719	1.64786	-0.43903	-1.30074	0.58046	-0.00321	1.73413	0.30471	0.02503	0.76488
1.35300	-8.33146	1.65697	-0.43868	-1.29807	0.58927	-0.00323	1.82421	0.29402	0.02609	0.75898
1.38485	-8.45480	1.66648	-0.43816	-1.29588	0.59808	-0.00325	1.91607	0.28395	0.02702	0.75421
1.41743	-8.57763	1.67623	-0.43747	-1.29391	0.60678	-0.00326	2.00756	0.27455	0.02782	0.75075
1.45075	-8.70026	1.68608	-0.43664	-1.29196	0.61516	-0.00327	2.09673	0.26587	0.02847	0.74863
1.48500	-8.82337	1.69601	-0.43569	-1.28995	0.62326	-0.00329	2.18299	0.25786	0.02902	0.74771
1.51999	-8.94581	1.70597	-0.43465	-1.28800	0.63115	-0.00330	2.26572	0.25057	0.02946	0.74794
1.55569	-9.06764	1.71600	-0.43351	-1.28613	0.63883	-0.00331	2.34448	0.24397	0.02980	0.74924
1.59236	-9.18995	1.72625	-0.43227	-1.28433	0.64633	-0.00332	2.41935	0.23800	0.03003	0.75156
1.62973	-9.31220	1.73672	-0.43093	-1.28264	0.65360	-0.00333	2.48963	0.23268	0.03016	0.75483
1.66806	-9.43540	1.74757	-0.42948	-1.28108	0.66071	-0.00334	2.55588	0.22792	0.03020	0.75899
1.70736	-9.55974	1.75884	-0.42791	-1.27966	0.66766	-0.00335	2.61799	0.22371	0.03013	0.76400
1.74764	-9.68537	1.77054	-0.42623	-1.27835	0.67443	-0.00336	2.67559	0.22002	0.02996	0.76986
1.78859	-9.81123	1.78254	-0.42446	-1.27716	0.68097	-0.00337	2.72834	0.21682	0.02969	0.77646
1.83083	-9.93907	1.79496	-0.42259	-1.27602	0.68737	-0.00338	2.77691	0.21404	0.02935	0.78382
1.87371	-10.06662	1.80750	-0.42065	-1.27492	0.69354	-0.00338	2.82064	0.21167	0.02894	0.79178
1.91791	-10.19551	1.82029	-0.41862	-1.27385	0.69961	-0.00339	2.86041	0.20964	0.02849	0.80030
1.96309	-10.32428	1.83313	-0.41653	-1.27283	0.70557	-0.00340	2.89635	0.20793	0.02800	0.80914

2.00924	-10.45257	1.84595	-0.41437	-1.27187	0.71144	-0.00340	2.92887	0.20649	0.02751	0.81809
2.05634	-10.58013	1.85870	-0.41216	-1.27096	0.71725	-0.00341	2.95836	0.20528	0.02702	0.82694
2.10482	-10.70798	1.87147	-0.40987	-1.27009	0.72306	-0.00341	2.98525	0.20428	0.02654	0.83556
2.15424	-10.83512	1.88413	-0.40752	-1.26925	0.72878	-0.00342	3.00915	0.20347	0.02608	0.84368
2.20507	-10.96281	1.89685	-0.40509	-1.26842	0.73447	-0.00342	3.03035	0.20284	0.02564	0.85124
2.25683	-11.09001	1.90952	-0.40259	-1.26762	0.74005	-0.00343	3.04875	0.20237	0.02522	0.85824
2.31000	-11.21806	1.92230	-0.39999	-1.26682	0.74556	-0.00343	3.06467	0.20206	0.02480	0.86483
2.36463	-11.34716	1.93524	-0.39730	-1.26604	0.75099	-0.00343	3.07815	0.20188	0.02438	0.87114
2.42014	-11.47610	1.94825	-0.39453	-1.26529	0.75628	-0.00344	3.08919	0.20183	0.02396	0.87723
2.47709	-11.60614	1.96145	-0.39165	-1.26456	0.76148	-0.00344	3.09828	0.20188	0.02353	0.88332
2.53550	-11.73721	1.97485	-0.38868	-1.26388	0.76660	-0.00344	3.10565	0.20204	0.02309	0.88959
2.59471	-11.86784	1.98834	-0.38564	-1.26327	0.77159	-0.00345	3.11144	0.20227	0.02264	0.89610
2.65604	-12.00070	2.00214	-0.38246	-1.26271	0.77656	-0.00345	3.11605	0.20258	0.02217	0.90306
2.71887	-12.13429	2.01612	-0.37920	-1.26220	0.78146	-0.00345	3.11933	0.20296	0.02169	0.91045
2.78242	-12.26687	2.03007	-0.37588	-1.26176	0.78623	-0.00345	3.12155	0.20340	0.02120	0.91825
2.84819	-12.40108	2.04422	-0.37244	-1.26138	0.79100	-0.00345	3.12311	0.20387	0.02069	0.92668
2.91545	-12.53559	2.05851	-0.36895	-1.26106	0.79571	-0.00345	3.12359	0.20440	0.02018	0.93570
2.98329	-12.66792	2.07250	-0.36540	-1.26080	0.80030	-0.00345	3.12377	0.20495	0.01967	0.94508
3.05344	-12.80170	2.08673	-0.36180	-1.26059	0.80490	-0.00345	3.12302	0.20554	0.01915	0.95481
3.12598	-12.93645	2.10098	-0.35804	-1.26045	0.80952	-0.00345	3.12208	0.20615	0.01864	0.96467
3.19898	-13.06857	2.11498	-0.35433	-1.26036	0.81403	-0.00345	3.12064	0.20677	0.01816	0.97412
3.27439	-13.20157	2.12900	-0.35048	-1.26033	0.81856	-0.00344	3.11901	0.20741	0.01769	0.98312
3.35121	-13.33327	2.14286	-0.34664	-1.26035	0.82304	-0.00344	3.11702	0.20806	0.01724	0.99139
3.43053	-13.46576	2.15672	-0.34265	-1.26044	0.82753	-0.00344	3.11490	0.20873	0.01681	0.99926
3.51124	-13.59682	2.17043	-0.33870	-1.26056	0.83197	-0.00344	3.11241	0.20940	0.01640	1.00687
3.59324	-13.72632	2.18381	-0.33461	-1.26074	0.83633	-0.00344	3.11020	0.21006	0.01600	1.01457
3.67782	-13.85682	2.19744	-0.33059	-1.26095	0.84071	-0.00343	3.10713	0.21075	0.01561	1.02279
3.76506	-13.98681	2.21065	-0.32627	-1.26124	0.84504	-0.00343	3.10511	0.21141	0.01521	1.03196
3.85356	-14.11701	2.22428	-0.32217	-1.26153	0.84934	-0.00343	3.10150	0.21211	0.01481	1.04182
3.94477	-14.24532	2.23713	-0.31773	-1.26191	0.85356	-0.00342	3.09977	0.21274	0.01442	1.05237
4.03714	-14.37471	2.25061	-0.31346	-1.26230	0.85774	-0.00342	3.09622	0.21345	0.01404	1.06312
4.13223	-14.50233	2.26351	-0.30905	-1.26274	0.86183	-0.00341	3.09398	0.21407	0.01367	1.07396
4.23012	-14.63119	2.27648	-0.30440	-1.26325	0.86589	-0.00341	3.09181	0.21472	0.01330	1.08460
4.32900	-14.75994	2.28996	-0.30009	-1.26373	0.86989	-0.00340	3.08820	0.21539	0.01296	1.09443
4.43066	-14.88495	2.30209	-0.29528	-1.26433	0.87372	-0.00340	3.08758	0.21594	0.01262	1.10367
4.53515	-15.01497	2.31558	-0.29062	-1.26492	0.87761	-0.00339	3.08452	0.21659	0.01230	1.11225
4.64253	-15.14329	2.32871	-0.28604	-1.26552	0.88141	-0.00339	3.08231	0.21717	0.01200	1.12021
4.75059	-15.26657	2.34048	-0.28097	-1.26624	0.88497	-0.00338	3.08238	0.21768	0.01170	1.12753
4.86145	-15.39643	2.35424	-0.27633	-1.26691	0.88864	-0.00337	3.07910	0.21830	0.01141	1.13426
4.97760	-15.52414	2.36703	-0.27150	-1.26763	0.89222	-0.00337	3.07804	0.21882	0.01113	1.14067
5.09424	-15.64717	2.37856	-0.26615	-1.26846	0.89555	-0.00336	3.07878	0.21928	0.01085	1.14663
5.21376	-15.77831	2.39258	-0.26138	-1.26922	0.89904	-0.00335	3.07571	0.21988	0.01058	1.15215
5.33618	-15.90351	2.40519	-0.25661	-1.27000	0.90235	-0.00334	3.07486	0.22034	0.01033	1.15741
5.46150	-16.02354	2.41588	-0.25103	-1.27092	0.90539	-0.00334	3.07690	0.22072	0.01005	1.16264
5.58971	-16.15338	2.42944	-0.24594	-1.27179	0.90861	-0.00333	3.07491	0.22126	0.00979	1.16772
5.72082	-16.28177	2.44312	-0.24138	-1.27259	0.91181	-0.00332	3.07281	0.22174	0.00955	1.17278
5.85823	-16.39996	2.45303	-0.23564	-1.27357	0.91461	-0.00331	3.07607	0.22204	0.00928	1.17833
5.99520	-16.52310	2.46469	-0.23005	-1.27455	0.91745	-0.00330	3.07660	0.22246	0.00901	1.18388
6.13497	-16.65495	2.47934	-0.22541	-1.27543	0.92052	-0.00329	3.07361	0.22297	0.00878	1.18938
6.28141	-16.77553	2.49062	-0.22041	-1.27635	0.92326	-0.00328	3.07487	0.22328	0.00854	1.19525
6.42674	-16.88506	2.49887	-0.21447	-1.27739	0.92557	-0.00327	3.07876	0.22353	0.00827	1.20135
6.57895	-17.01040	2.51099	-0.20885	-1.27843	0.92822	-0.00326	3.07872	0.22395	0.00801	1.20762
6.73401	-17.14360	2.52602	-0.20433	-1.27936	0.93113	-0.00325	3.07602	0.22441	0.00779	1.21377
6.89180	-17.25480	2.53537	-0.19935	-1.28031	0.93344	-0.00324	3.07857	0.22462	0.00755	1.22020
7.05716	-17.36032	2.54191	-0.19302	-1.28140	0.93539	-0.00323	3.08319	0.22483	0.00727	1.22714
7.22022	-17.47616	2.55208	-0.18735	-1.28244	0.93759	-0.00322	3.08403	0.22517	0.00701	1.23363
7.39098	-17.60836	2.56672	-0.18259	-1.28346	0.94023	-0.00321	3.08183	0.22560	0.00680	1.23982
7.56430	-17.72259	2.57738	-0.17822	-1.28439	0.94249	-0.00320	3.08290	0.22583	0.00660	1.24574
7.73994	-17.80866	2.57990	-0.17223	-1.28534	0.94382	-0.00319	3.08848	0.22593	0.00633	1.25176
7.92393	-17.91022	2.58579	-0.16605	-1.28635	0.94542	-0.00318	3.09107	0.22618	0.00605	1.25744
8.11030	-18.02396	2.59531	-0.16042	-1.28740	0.94732	-0.00317	3.09128	0.22652	0.00581	1.26248
8.29876	-18.15171	2.60952	-0.15603	-1.28847	0.94971	-0.00316	3.08971	0.22689	0.00563	1.26674
8.49618	-18.24732	2.61527	-0.15147	-1.28933	0.95128	-0.00315	3.09256	0.22702	0.00542	1.27112
8.69565	-18.31073	2.61193	-0.14542	-1.28997	0.95178	-0.00315	3.09758	0.22705	0.00513	1.27590
8.90472	-18.39536	2.61353	-0.13934	-1.29073	0.95272	-0.00314	3.09944	0.22724	0.00484	1.28054
9.11577	-18.48606	2.61710	-0.13356	-1.29150	0.95379	-0.00313	3.09993	0.22748	0.00456	1.28502
9.32836	-18.60252	2.62786	-0.12837	-1.29255	0.95556	-0.00312	3.09815	0.22789	0.00434	1.28915
9.54198	-18.70264	2.63572	-0.12432	-1.29341	0.95710	-0.00311	3.09849	0.22811	0.00416	1.29326
9.76563	-18.73713	2.62633	-0.11979	-1.29343	0.95686	-0.00311	3.10268	0.22793	0.00389	1.29867
10.00000	-18.76996	2.61571	-0.11469	-1.29330	0.95641	-0.00311	3.10541	0.22778	0.00356	1.30503

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Low stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 61 - 152 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	0.49423	2.09639	-0.23713	-2.85628	1.06497	-0.00084	10.03340	0.25749	0.01913	0.30942
PGV	9.99967	1.67921	-0.21314	-3.79461	1.15254	0.00003	18.30838	0.24681	0.00321	0.42067
PGA	5.30575	1.55841	-0.07957	-3.39939	0.62158	-0.00040	9.62793	0.40946	-0.03071	0.79305
0.01000	5.33820	1.56620	-0.07869	-3.40149	0.60345	-0.00039	9.69153	0.41217	-0.01643	0.76570
0.01024	5.35020	1.56651	-0.07852	-3.40344	0.60309	-0.00039	9.70602	0.41216	-0.01646	0.76614
0.01048	5.36434	1.56684	-0.07834	-3.40576	0.60277	-0.00039	9.72391	0.41211	-0.01649	0.76656
0.01072	5.38072	1.56718	-0.07814	-3.40847	0.60251	-0.00038	9.74535	0.41203	-0.01653	0.76697
0.01097	5.39952	1.56755	-0.07794	-3.41159	0.60228	-0.00038	9.77057	0.41192	-0.01657	0.76738
0.01123	5.42097	1.56794	-0.07772	-3.41517	0.60210	-0.00038	9.79992	0.41177	-0.01662	0.76777
0.01150	5.44539	1.56837	-0.07748	-3.41927	0.60195	-0.00038	9.83389	0.41158	-0.01668	0.76818
0.01177	5.47307	1.56883	-0.07723	-3.42393	0.60185	-0.00037	9.87291	0.41134	-0.01674	0.76859
0.01205	5.50430	1.56934	-0.07695	-3.42920	0.60178	-0.00037	9.91741	0.41107	-0.01681	0.76902
0.01233	5.53958	1.56990	-0.07666	-3.43516	0.60175	-0.00036	9.96822	0.41074	-0.01689	0.76948
0.01262	5.57939	1.57052	-0.07633	-3.44190	0.60175	-0.00036	10.02609	0.41036	-0.01698	0.76997
0.01292	5.62412	1.57120	-0.07598	-3.44949	0.60182	-0.00035	10.09167	0.40992	-0.01708	0.77050
0.01322	5.67463	1.57196	-0.07559	-3.45806	0.60194	-0.00034	10.16641	0.40941	-0.01720	0.77110
0.01353	5.73182	1.57280	-0.07516	-3.46777	0.60212	-0.00033	10.25180	0.40882	-0.01732	0.77178
0.01385	5.79649	1.57373	-0.07470	-3.47875	0.60233	-0.00033	10.34910	0.40815	-0.01746	0.77256
0.01417	5.86962	1.57479	-0.07418	-3.49117	0.60257	-0.00032	10.45996	0.40740	-0.01762	0.77346
0.01451	5.95231	1.57599	-0.07361	-3.50522	0.60286	-0.00030	10.58613	0.40654	-0.01779	0.77449
0.01485	6.04519	1.57735	-0.07297	-3.52100	0.60322	-0.00029	10.72872	0.40558	-0.01798	0.77568
0.01520	6.14755	1.57889	-0.07225	-3.53835	0.60367	-0.00028	10.88662	0.40456	-0.01820	0.77710
0.01556	6.25745	1.58056	-0.07146	-3.55689	0.60409	-0.00026	11.05681	0.40350	-0.01845	0.77885
0.01592	6.37442	1.58236	-0.07057	-3.57648	0.60441	-0.00025	11.23890	0.40241	-0.01875	0.78100
0.01630	6.49947	1.58430	-0.06958	-3.59728	0.60462	-0.00023	11.43469	0.40130	-0.01910	0.78355
0.01668	6.63236	1.58642	-0.06848	-3.61928	0.60475	-0.00022	11.64347	0.40018	-0.01948	0.78641
0.01707	6.77123	1.58878	-0.06727	-3.64215	0.60484	-0.00020	11.86181	0.39909	-0.01988	0.78944
0.01748	6.91312	1.59142	-0.06594	-3.66543	0.60491	-0.00019	12.08406	0.39810	-0.02026	0.79243
0.01789	7.05763	1.59433	-0.06450	-3.68902	0.60485	-0.00018	12.30924	0.39721	-0.02061	0.79530
0.01831	7.20492	1.59743	-0.06296	-3.71290	0.60444	-0.00017	12.53776	0.39642	-0.02097	0.79831
0.01874	7.34944	1.60062	-0.06131	-3.73599	0.60358	-0.00016	12.76096	0.39578	-0.02137	0.80159
0.01918	7.48096	1.60387	-0.05956	-3.75651	0.60216	-0.00015	12.96096	0.39545	-0.02179	0.80502
0.01963	7.59926	1.60722	-0.05772	-3.77453	0.59977	-0.00014	13.13495	0.39543	-0.02222	0.80862
0.02009	7.70964	1.61072	-0.05585	-3.79115	0.59639	-0.00014	13.29015	0.39565	-0.02269	0.81250
0.02057	7.80845	1.61440	-0.05394	-3.80575	0.59270	-0.00014	13.42093	0.39614	-0.02315	0.81640
0.02105	7.88605	1.61826	-0.05195	-3.81665	0.58904	-0.00014	13.51163	0.39699	-0.02357	0.81996
0.02154	7.93630	1.62194	-0.04993	-3.82253	0.58450	-0.00015	13.55277	0.39827	-0.02395	0.82328
0.02205	7.96341	1.62513	-0.04798	-3.82391	0.57825	-0.00016	13.55387	0.39987	-0.02432	0.82636
0.02257	7.97486	1.62794	-0.04612	-3.82210	0.57050	-0.00017	13.53009	0.40170	-0.02462	0.82903
0.02310	7.97346	1.63089	-0.04426	-3.81789	0.56193	-0.00018	13.48571	0.40376	-0.02483	0.83103
0.02364	7.95126	1.63436	-0.04231	-3.81034	0.55324	-0.00020	13.40338	0.40620	-0.02495	0.83243
0.02420	7.89813	1.63799	-0.04029	-3.79776	0.54505	-0.00022	13.26533	0.40909	-0.02504	0.83361
0.02477	7.79610	1.64094	-0.03829	-3.77673	0.53661	-0.00025	13.04040	0.41259	-0.02508	0.83444
0.02535	7.64000	1.64315	-0.03641	-3.74638	0.52719	-0.00029	12.71797	0.41686	-0.02504	0.83483
0.02595	7.45695	1.64514	-0.03461	-3.71169	0.51742	-0.00033	12.34572	0.42159	-0.02492	0.83475
0.02656	7.27664	1.64741	-0.03285	-3.67787	0.50780	-0.00037	11.97632	0.42645	-0.02469	0.83408
0.02719	7.11576	1.65030	-0.03106	-3.64773	0.49941	-0.00041	11.64378	0.43113	-0.02445	0.83343
0.02783	6.96893	1.65421	-0.02913	-3.62069	0.49300	-0.00045	11.33870	0.43572	-0.02425	0.83312
0.02848	6.81463	1.65896	-0.02701	-3.59302	0.48724	-0.00050	11.02578	0.44056	-0.02406	0.83276
0.02915	6.63864	1.66340	-0.02486	-3.56130	0.47934	-0.00054	10.68684	0.44580	-0.02385	0.83220
0.02984	6.44435	1.66698	-0.02284	-3.52557	0.46811	-0.00058	10.32738	0.45142	-0.02368	0.83188
0.03054	6.23248	1.66985	-0.02089	-3.48627	0.45506	-0.00062	9.94562	0.45745	-0.02353	0.83179
0.03126	6.01533	1.67248	-0.01903	-3.44612	0.44155	-0.00066	9.55721	0.46371	-0.02333	0.83151
0.03199	5.79372	1.67544	-0.01720	-3.40571	0.42773	-0.00070	9.16308	0.47029	-0.02304	0.83065
0.03275	5.55068	1.67913	-0.01517	-3.36226	0.41570	-0.00074	8.74765	0.47739	-0.02270	0.82949
0.03352	5.30082	1.68393	-0.01294	-3.31881	0.40771	-0.00080	8.33626	0.48465	-0.02244	0.82883
0.03430	5.07318	1.68960	-0.01076	-3.28053	0.40256	-0.00086	7.96263	0.49158	-0.02222	0.82834
0.03511	4.89080	1.69512	-0.00894	-3.25039	0.39808	-0.00091	7.65716	0.49763	-0.02198	0.82766
0.03594	4.74968	1.69994	-0.00755	-3.22691	0.39339	-0.00094	7.41508	0.50277	-0.02174	0.82697
0.03678	4.61838	1.70420	-0.00632	-3.20470	0.38810	-0.00096	7.19115	0.50770	-0.02140	0.82578
0.03765	4.47048	1.70798	-0.00506	-3.17911	0.38160	-0.00099	6.95078	0.51305	-0.02101	0.82438
0.03854	4.30833	1.71109	-0.00378	-3.15034	0.37385	-0.00102	6.69985	0.51873	-0.02064	0.82300
0.03944	4.13397	1.71323	-0.00242	-3.11885	0.36535	-0.00105	6.43847	0.52469	-0.02022	0.82119
0.04037	3.93992	1.71438	-0.00090	-3.08332	0.35654	-0.00108	6.15706	0.53117	-0.01974	0.81886
0.04132	3.70863	1.71538	0.00099	-3.04097	0.34646	-0.00111	5.83856	0.53877	-0.01927	0.81648
0.04229	3.43975	1.71715	0.00314	-2.99257	0.33393	-0.00116	5.48349	0.54776	-0.01881	0.81407
0.04329	3.17495	1.71927	0.00501	-2.94546	0.31994	-0.00119	5.14076	0.55703	-0.01829	0.81133
0.04431	2.94213	1.72067	0.00642	-2.90369	0.30651	-0.00122	4.84451	0.56551	-0.01784	0.80884
0.04535	2.72533	1.72114	0.00764	-2.86435	0.29496	-0.00124	4.57748	0.57339	-0.01745	0.80649

0.04642	2.52290	1.72114	0.00866	-2.82747	0.28548	-0.00127	4.33616	0.58076	-0.01699	0.80365
0.04751	2.33901	1.72117	0.00951	-2.79386	0.27805	-0.00130	4.12341	0.58758	-0.01647	0.80055
0.04863	2.17604	1.72161	0.01034	-2.76406	0.27340	-0.00133	3.94132	0.59372	-0.01619	0.79912
0.04977	2.00845	1.72185	0.01124	-2.73317	0.26815	-0.00136	3.76003	0.60014	-0.01617	0.79949
0.05094	1.82680	1.72075	0.01196	-2.69873	0.25902	-0.00138	3.56604	0.60729	-0.01607	0.79916
0.05214	1.64503	1.71854	0.01227	-2.66333	0.24758	-0.00140	3.37536	0.61463	-0.01576	0.79749
0.05337	1.48213	1.71668	0.01207	-2.63163	0.23669	-0.00141	3.20740	0.62147	-0.01538	0.79571
0.05462	1.34266	1.71511	0.01149	-2.60462	0.22705	-0.00142	3.06459	0.62752	-0.01499	0.79407
0.05591	1.23631	1.71221	0.01058	-2.58271	0.21913	-0.00142	2.95471	0.63212	-0.01448	0.79178
0.05722	1.15962	1.70833	0.00947	-2.56558	0.21402	-0.00141	2.87445	0.63525	-0.01382	0.78835
0.05857	1.08873	1.70476	0.00838	-2.54989	0.21050	-0.00141	2.80214	0.63804	-0.01314	0.78489
0.05995	0.99767	1.70148	0.00730	-2.53070	0.20427	-0.00141	2.71289	0.64190	-0.01272	0.78324
0.06136	0.88929	1.69827	0.00602	-2.50836	0.19474	-0.00140	2.60754	0.64687	-0.01256	0.78367
0.06280	0.78580	1.69475	0.00471	-2.48654	0.18666	-0.00140	2.50904	0.65160	-0.01255	0.78534
0.06428	0.71082	1.69134	0.00367	-2.46948	0.18479	-0.00141	2.44189	0.65471	-0.01261	0.78706
0.06579	0.65334	1.68798	0.00283	-2.45542	0.18784	-0.00143	2.39401	0.65670	-0.01262	0.78786
0.06734	0.57609	1.68370	0.00200	-2.43765	0.19094	-0.00145	2.32995	0.65936	-0.01263	0.78834
0.06893	0.46783	1.67818	0.00106	-2.41390	0.19131	-0.00147	2.24194	0.66322	-0.01265	0.78894
0.07055	0.34979	1.67155	-0.00005	-2.38723	0.18850	-0.00150	2.15028	0.66743	-0.01257	0.78889
0.07221	0.23698	1.66374	-0.00135	-2.35991	0.18293	-0.00151	2.06659	0.67137	-0.01239	0.78819
0.07391	0.13362	1.65621	-0.00273	-2.33451	0.17815	-0.00153	1.99372	0.67479	-0.01217	0.78711
0.07565	0.04436	1.65115	-0.00409	-2.31417	0.17812	-0.00156	1.93480	0.67745	-0.01172	0.78447
0.07743	-0.03740	1.64741	-0.00558	-2.29664	0.18020	-0.00159	1.88084	0.67994	-0.01100	0.78014
0.07925	-0.11438	1.64241	-0.00742	-2.27903	0.17950	-0.00160	1.82451	0.68269	-0.01023	0.77555
0.08111	-0.18752	1.63590	-0.00952	-2.26079	0.17571	-0.00159	1.76610	0.68572	-0.00945	0.77060
0.08302	-0.26005	1.62907	-0.01169	-2.24200	0.17180	-0.00159	1.70940	0.68877	-0.00860	0.76493
0.08498	-0.32907	1.62346	-0.01389	-2.22428	0.17000	-0.00160	1.66078	0.69144	-0.00784	0.75988
0.08697	-0.38081	1.61978	-0.01627	-2.21099	0.17002	-0.00162	1.62741	0.69316	-0.00738	0.75726
0.08902	-0.41956	1.61808	-0.01880	-2.20185	0.16972	-0.00163	1.60249	0.69449	-0.00732	0.75798
0.09112	-0.45511	1.61741	-0.02148	-2.19457	0.16780	-0.00164	1.57738	0.69603	-0.00740	0.76016
0.09326	-0.50158	1.61525	-0.02437	-2.18445	0.16330	-0.00163	1.54283	0.69823	-0.00726	0.76095
0.09545	-0.56242	1.60932	-0.02751	-2.16878	0.15598	-0.00162	1.49742	0.70096	-0.00692	0.76032
0.09770	-0.63059	1.60053	-0.03070	-2.14951	0.14881	-0.00160	1.44877	0.70357	-0.00664	0.76021
0.10000	-0.69718	1.59142	-0.03373	-2.13052	0.14525	-0.00161	1.40505	0.70550	-0.00650	0.76145
0.10235	-0.74366	1.58406	-0.03676	-2.11702	0.14669	-0.00162	1.37688	0.70600	-0.00635	0.76305
0.10476	-0.75893	1.57926	-0.03997	-2.11166	0.15355	-0.00163	1.36996	0.70462	-0.00592	0.76315
0.10723	-0.77019	1.57626	-0.04296	-2.10858	0.16553	-0.00165	1.36971	0.70268	-0.00522	0.76140
0.10975	-0.81242	1.57394	-0.04511	-2.10025	0.18133	-0.00170	1.35680	0.70192	-0.00459	0.75959
0.11233	-0.87938	1.57166	-0.04658	-2.08739	0.19820	-0.00177	1.33227	0.70223	-0.00425	0.75937
0.11498	-0.94524	1.56887	-0.04811	-2.07441	0.21276	-0.00182	1.30650	0.70269	-0.00428	0.76138
0.11768	-1.00967	1.56418	-0.05015	-2.06001	0.22066	-0.00186	1.27556	0.70374	-0.00454	0.76483
0.12045	-1.09241	1.55655	-0.05253	-2.03948	0.21856	-0.00186	1.22706	0.70671	-0.00469	0.76721
0.12328	-1.19125	1.54764	-0.05501	-2.01463	0.20927	-0.00186	1.16625	0.71136	-0.00444	0.76648
0.12619	-1.29469	1.54030	-0.05740	-1.99025	0.20012	-0.00185	1.10546	0.71652	-0.00379	0.76280
0.12916	-1.40061	1.53534	-0.05966	-1.96772	0.19607	-0.00186	1.04911	0.72154	-0.00283	0.75675
0.13219	-1.50319	1.53049	-0.06213	-1.94620	0.19632	-0.00188	0.99862	0.72587	-0.00166	0.74923
0.13531	-1.58775	1.52354	-0.06513	-1.92642	0.19782	-0.00190	0.95780	0.72874	-0.00052	0.74218
0.13849	-1.64728	1.51526	-0.06837	-1.91018	0.19830	-0.00189	0.92916	0.72996	0.00033	0.73728
0.14175	-1.68808	1.50734	-0.07142	-1.89759	0.19596	-0.00188	0.91064	0.73005	0.00077	0.73509
0.14508	-1.71210	1.50070	-0.07436	-1.88892	0.19125	-0.00186	0.90216	0.72910	0.00080	0.73553
0.14850	-1.70720	1.49559	-0.07765	-1.88670	0.18757	-0.00183	0.90971	0.72611	0.00045	0.73841
0.15199	-1.66616	1.49162	-0.08154	-1.89206	0.18751	-0.00180	0.93668	0.72053	-0.00011	0.74266
0.15557	-1.60368	1.48806	-0.08594	-1.90170	0.19091	-0.00178	0.97630	0.71332	-0.00056	0.74591
0.15923	-1.55366	1.48457	-0.09049	-1.90928	0.19673	-0.00176	1.01200	0.70665	-0.00046	0.74524
0.16298	-1.54372	1.48142	-0.09481	-1.91014	0.20463	-0.00177	1.02926	0.70218	0.00026	0.74034
0.16681	-1.58194	1.47847	-0.09868	-1.90275	0.21217	-0.00180	1.02220	0.70057	0.00119	0.73421
0.17074	-1.65058	1.47526	-0.10230	-1.88980	0.21619	-0.00182	0.99875	0.70100	0.00187	0.73020
0.17475	-1.72591	1.47151	-0.10592	-1.87504	0.21654	-0.00183	0.97201	0.70194	0.00212	0.72940
0.17887	-1.78929	1.46729	-0.10960	-1.86156	0.21612	-0.00184	0.95341	0.70191	0.00207	0.73071
0.18307	-1.83926	1.46291	-0.11332	-1.84970	0.21776	-0.00185	0.94450	0.70066	0.00196	0.73276
0.18738	-1.88179	1.45897	-0.11700	-1.83900	0.22222	-0.00188	0.94182	0.69871	0.00200	0.73412
0.19179	-1.92685	1.45603	-0.12050	-1.82833	0.22801	-0.00191	0.93901	0.69707	0.00226	0.73403
0.19631	-1.97640	1.45433	-0.12374	-1.81797	0.23456	-0.00194	0.93379	0.69603	0.00262	0.73310
0.20092	-2.02642	1.45360	-0.12664	-1.80886	0.24164	-0.00197	0.92678	0.69539	0.00290	0.73245
0.20565	-2.08922	1.45305	-0.12914	-1.79815	0.24610	-0.00199	0.90998	0.69613	0.00317	0.73198
0.21049	-2.17704	1.45172	-0.13130	-1.78247	0.24460	-0.00200	0.87685	0.69917	0.00349	0.73147
0.21544	-2.27428	1.44934	-0.13351	-1.76415	0.23878	-0.00201	0.83768	0.70315	0.00364	0.73229
0.22051	-2.35828	1.44627	-0.13612	-1.74776	0.23231	-0.00201	0.80529	0.70610	0.00348	0.73508
0.22570	-2.41549	1.44281	-0.13935	-1.73634	0.22647	-0.00200	0.78616	0.70683	0.00306	0.73947
0.23101	-2.43925	1.43924	-0.14331	-1.73173	0.22167	-0.00198	0.78290	0.70479	0.00248	0.74465
0.23645	-2.42797	1.43605	-0.14793	-1.73483	0.21883	-0.00193	0.79727	0.69970	0.00185	0.75022
0.24201	-2.38059	1.43428	-0.15301	-1.74674	0.21976	-0.00187	0.83228	0.69146	0.00127	0.75548
0.24771	-2.30697	1.43473	-0.15821	-1.76604	0.22595	-0.00181	0.88616	0.68089	0.00091	0.75963
0.25354	-2.22207	1.43717	-0.16320	-1.78929	0.23830	-0.00176	0.95309	0.66927	0.00079	0.76238
0.25950	-2.14375	1.44025	-0.16786	-1.81144	0.25544	-0.00175	1.02294	0.65799	0.00085	0.76388
0.26561	-2.08915	1.44231	-0.17233	-1.82741	0.27324	-0.00175	1.08305	0.64836	0.00093	0.76479
0.27186	-2.06182	1.44282	-0.17683	-1.83591	0.28827	-0.00177	1.12882	0.64068	0.00094	0.76575
0.27826	-2.06313	1.44237	-0.18135	-1.83720	0.29875	-0.00180	1.15851	0.63509	0.00089	0.76712
0.28480	-2.09181	1.44197	-0.18574	-1.83249	0.30474	-0.00183	1.17265	0.63157	0.00081	0.76883
0.29150	-2.13904	1.44234	-0.18999	-1.82451	0.30836	-0.00186	1.17672	0.62946	0.00084	0.77016
0.29836	-2.19506	1.44338	-0.19421	-1.81574	0.31282	-0.00190	1.17600	0.62790	0.00110	0.77037

0.30539	-2.25861	1.44419	-0.19843	-1.80611	0.31931	-0.00194	1.17002	0.62657	0.00153	0.76982
0.31257	-2.32756	1.44393	-0.20263	-1.79540	0.32702	-0.00197	1.15934	0.62527	0.00184	0.77027
0.31993	-2.39565	1.44277	-0.20679	-1.78477	0.33555	-0.00200	1.14883	0.62354	0.00181	0.77321
0.32745	-2.45660	1.44180	-0.21090	-1.77621	0.34589	-0.00203	1.14374	0.62108	0.00140	0.77867
0.33517	-2.50737	1.44184	-0.21500	-1.77091	0.35849	-0.00205	1.14674	0.61780	0.00065	0.78617
0.34304	-2.54599	1.44321	-0.21903	-1.76939	0.37261	-0.00207	1.15896	0.61374	-0.00042	0.79553
0.35112	-2.57308	1.44601	-0.22292	-1.77159	0.38759	-0.00208	1.18051	0.60897	-0.00183	0.80687
0.35938	-2.58987	1.45036	-0.22656	-1.77748	0.40301	-0.00209	1.21106	0.60362	-0.00344	0.81916
0.36784	-2.59888	1.45633	-0.23005	-1.78669	0.41806	-0.00210	1.24996	0.59780	-0.00501	0.83077
0.37649	-2.60969	1.46331	-0.23353	-1.79669	0.43136	-0.00209	1.29078	0.59206	-0.00631	0.84008
0.38536	-2.64008	1.46993	-0.23716	-1.80259	0.44162	-0.00210	1.32033	0.58736	-0.00728	0.84677
0.39442	-2.70724	1.47484	-0.24105	-1.79954	0.44780	-0.00211	1.32466	0.58463	-0.00796	0.85129
0.40370	-2.81272	1.47737	-0.24534	-1.78662	0.45015	-0.00214	1.30100	0.58394	-0.00842	0.85439
0.41321	-2.94067	1.47764	-0.25024	-1.76702	0.44947	-0.00218	1.25934	0.58450	-0.00879	0.85722
0.42292	-3.07258	1.47636	-0.25573	-1.74515	0.44756	-0.00222	1.21288	0.58528	-0.00911	0.86027
0.43288	-3.19897	1.47436	-0.26170	-1.72379	0.44560	-0.00225	1.16982	0.58560	-0.00935	0.86327
0.44307	-3.31745	1.47213	-0.26795	-1.70402	0.44362	-0.00228	1.13242	0.58526	-0.00944	0.86586
0.45349	-3.42684	1.46996	-0.27439	-1.68642	0.44129	-0.00230	1.10204	0.58415	-0.00933	0.86748
0.46417	-3.53094	1.46819	-0.28093	-1.67063	0.43780	-0.00231	1.07628	0.58254	-0.00893	0.86729
0.47508	-3.63966	1.46705	-0.28742	-1.65487	0.43163	-0.00231	1.04816	0.58127	-0.00817	0.86474
0.48626	-3.76104	1.46644	-0.29375	-1.63728	0.42186	-0.00231	1.01219	0.58105	-0.00720	0.86056
0.49771	-3.89417	1.46611	-0.29984	-1.61757	0.40923	-0.00230	0.96972	0.58186	-0.00630	0.85670
0.50942	-4.03211	1.46615	-0.30562	-1.59708	0.39603	-0.00229	0.92667	0.58302	-0.00567	0.85474
0.52140	-4.16715	1.46676	-0.31109	-1.57753	0.38423	-0.00229	0.88885	0.58377	-0.00535	0.85504
0.53367	-4.29350	1.46805	-0.31627	-1.56032	0.37515	-0.00228	0.86006	0.58353	-0.00528	0.85721
0.54624	-4.40647	1.47017	-0.32124	-1.54662	0.37018	-0.00229	0.84324	0.58179	-0.00530	0.86013
0.55910	-4.50574	1.47325	-0.32613	-1.53664	0.37005	-0.00229	0.83863	0.57845	-0.00519	0.86223
0.57225	-4.59518	1.47734	-0.33103	-1.52951	0.37477	-0.00231	0.84375	0.57388	-0.00477	0.86231
0.58569	-4.67791	1.48229	-0.33603	-1.52433	0.38390	-0.00234	0.85592	0.56848	-0.00403	0.86018
0.59948	-4.75680	1.48783	-0.34112	-1.52028	0.39675	-0.00237	0.87236	0.56268	-0.00310	0.85680
0.61357	-4.83295	1.49375	-0.34615	-1.51687	0.41211	-0.00242	0.89067	0.55692	-0.00219	0.85351
0.62802	-4.90674	1.50011	-0.35100	-1.51410	0.42884	-0.00246	0.91008	0.55140	-0.00145	0.85149
0.64280	-4.97734	1.50702	-0.35553	-1.51212	0.44560	-0.00250	0.93039	0.54623	-0.00106	0.85191
0.65794	-5.04654	1.51445	-0.35965	-1.51046	0.46122	-0.00254	0.94983	0.54169	-0.00110	0.85543
0.67340	-5.11618	1.52224	-0.36334	-1.50858	0.47526	-0.00257	0.96586	0.53811	-0.00154	0.86198
0.68927	-5.18805	1.53032	-0.36661	-1.50613	0.48804	-0.00259	0.97665	0.53565	-0.00229	0.87101
0.70547	-5.26497	1.53858	-0.36949	-1.50238	0.49935	-0.00262	0.97946	0.53459	-0.00319	0.88132
0.72207	-5.34980	1.54710	-0.37205	-1.49684	0.50889	-0.00265	0.97281	0.53502	-0.00404	0.89144
0.73910	-5.44345	1.55578	-0.37435	-1.48922	0.51611	-0.00267	0.95697	0.53683	-0.00470	0.89996
0.75649	-5.54425	1.56432	-0.37650	-1.47955	0.52047	-0.00269	0.93393	0.53972	-0.00508	0.90594
0.77429	-5.64848	1.57255	-0.37853	-1.46851	0.52256	-0.00270	0.90730	0.54321	-0.00519	0.90915
0.79246	-5.75197	1.58031	-0.38048	-1.45691	0.52303	-0.00271	0.88007	0.54691	-0.00511	0.90990
0.81116	-5.85195	1.58779	-0.38242	-1.44556	0.52261	-0.00272	0.85471	0.55054	-0.00496	0.90894
0.83022	-5.94392	1.59515	-0.38434	-1.43561	0.52188	-0.00272	0.83397	0.55368	-0.00479	0.90700
0.84976	-6.02713	1.60266	-0.38628	-1.42756	0.52069	-0.00272	0.81879	0.55615	-0.00462	0.90443
0.86972	-6.09932	1.61050	-0.38830	-1.42222	0.51960	-0.00270	0.81053	0.55769	-0.00437	0.90112
0.89023	-6.16262	1.61885	-0.39051	-1.41948	0.51863	-0.00269	0.80754	0.55850	-0.00396	0.89690
0.91116	-6.21884	1.62767	-0.39290	-1.41909	0.51772	-0.00267	0.80783	0.55884	-0.00335	0.89211
0.93257	-6.27145	1.63677	-0.39551	-1.42021	0.51596	-0.00264	0.80878	0.55906	-0.00264	0.88741
0.95456	-6.32119	1.64590	-0.39839	-1.42247	0.51342	-0.00261	0.81012	0.55909	-0.00196	0.88361
0.97704	-6.36868	1.65491	-0.40154	-1.42563	0.51087	-0.00258	0.81229	0.55875	-0.00138	0.88116
1.00000	-6.41640	1.66366	-0.40499	-1.42911	0.50913	-0.00255	0.81506	0.55789	-0.00086	0.87976
1.02354	-6.46847	1.67212	-0.40882	-1.43212	0.50856	-0.00254	0.81731	0.55652	-0.00027	0.87851
1.04767	-6.52891	1.68021	-0.41307	-1.43387	0.50891	-0.00253	0.81768	0.55470	0.00050	0.87651
1.07227	-6.59711	1.68777	-0.41776	-1.43435	0.51012	-0.00253	0.81748	0.55216	0.00152	0.87337
1.09745	-6.67148	1.69467	-0.42285	-1.43380	0.51239	-0.00254	0.81876	0.54856	0.00272	0.86958
1.12334	-6.75024	1.70089	-0.42829	-1.43255	0.51574	-0.00255	0.82335	0.54367	0.00394	0.86614
1.14982	-6.83054	1.70657	-0.43384	-1.43136	0.52069	-0.00257	0.83336	0.53731	0.00503	0.86405
1.17675	-6.91145	1.71188	-0.43929	-1.43061	0.52712	-0.00259	0.84948	0.52953	0.00592	0.86373
1.20453	-6.99613	1.71705	-0.44460	-1.42999	0.53407	-0.00262	0.87124	0.52042	0.00660	0.86511
1.23289	-7.08608	1.72208	-0.44962	-1.42903	0.54118	-0.00264	0.89775	0.51023	0.00708	0.86791
1.26183	-7.18194	1.72707	-0.45427	-1.42756	0.54903	-0.00266	0.92958	0.49895	0.00739	0.87177
1.29149	-7.28233	1.73215	-0.45851	-1.42606	0.55866	-0.00269	0.96944	0.48630	0.00760	0.87619
1.32188	-7.38565	1.73740	-0.46235	-1.42492	0.57050	-0.00272	1.01958	0.47219	0.00781	0.88051
1.35300	-7.49298	1.74285	-0.46582	-1.42381	0.58362	-0.00276	1.07953	0.45693	0.00811	0.88408
1.38485	-7.60565	1.74858	-0.46896	-1.42241	0.59733	-0.00280	1.14815	0.44090	0.00862	0.88619
1.41743	-7.72440	1.75450	-0.47176	-1.42037	0.61103	-0.00283	1.22443	0.42437	0.00940	0.88652
1.45075	-7.84777	1.76053	-0.47417	-1.41782	0.62459	-0.00287	1.30940	0.40743	0.01041	0.88530
1.48500	-7.97578	1.76664	-0.47615	-1.41468	0.63765	-0.00291	1.40392	0.39014	0.01159	0.88295
1.51999	-8.10735	1.77278	-0.47765	-1.41092	0.64988	-0.00294	1.50674	0.37283	0.01289	0.87977
1.55569	-8.24305	1.77893	-0.47865	-1.40634	0.66074	-0.00297	1.61568	0.35576	0.01425	0.87594
1.59236	-8.38333	1.78523	-0.47909	-1.40109	0.67062	-0.00300	1.73067	0.33895	0.01567	0.87157
1.62973	-8.52507	1.79176	-0.47891	-1.39582	0.68031	-0.00303	1.85271	0.32250	0.01710	0.86675
1.66806	-8.66799	1.79868	-0.47814	-1.39078	0.69008	-0.00306	1.98329	0.30639	0.01854	0.86171
1.70736	-8.81062	1.80599	-0.47683	-1.38621	0.70017	-0.00309	2.12376	0.29064	0.01989	0.85697
1.74764	-8.95267	1.81371	-0.47504	-1.38207	0.71051	-0.00311	2.27337	0.27538	0.02111	0.85309
1.78859	-9.09317	1.82177	-0.47286	-1.37830	0.72078	-0.00314	2.42870	0.26090	0.02216	0.85039
1.83083	-9.23435	1.83032	-0.47035	-1.37483	0.73107	-0.00316	2.58938	0.24712	0.02308	0.84870
1.87371	-9.37373	1.83922	-0.46762	-1.37177	0.74134	-0.00318	2.75080	0.23435	0.02391	0.84776
1.91791	-9.51373	1.84859	-0.46467	-1.36903	0.75156	-0.00320	2.91221	0.22248	0.02472	0.84724
1.96309	-9.65359	1.85831	-0.46155	-1.36648	0.76139	-0.00322	3.06857	0.21171	0.02549	0.84711

2.00924	-9.79289	1.86827	-0.45831	-1.36404	0.77074	-0.00324	3.21829	0.20199	0.02619	0.84756
2.05634	-9.93076	1.87832	-0.45498	-1.36176	0.77958	-0.00326	3.36131	0.19325	0.02678	0.84872
2.10482	-10.06843	1.88853	-0.45156	-1.35955	0.78787	-0.00327	3.49725	0.18539	0.02725	0.85054
2.15424	-10.20486	1.89878	-0.44807	-1.35736	0.79548	-0.00329	3.62324	0.17847	0.02760	0.85279
2.20507	-10.34144	1.90921	-0.44450	-1.35521	0.80259	-0.00330	3.73887	0.17243	0.02786	0.85527
2.25683	-10.47681	1.91975	-0.44090	-1.35314	0.80921	-0.00331	3.84263	0.16730	0.02802	0.85795
2.31000	-10.61239	1.93050	-0.43721	-1.35117	0.81546	-0.00332	3.93517	0.16296	0.02808	0.86088
2.36463	-10.74843	1.94153	-0.43346	-1.34926	0.82136	-0.00333	4.01615	0.15938	0.02805	0.86411
2.42014	-10.88367	1.95273	-0.42968	-1.34746	0.82692	-0.00333	4.08493	0.15653	0.02793	0.86766
2.47709	-11.01976	1.96423	-0.42583	-1.34570	0.83216	-0.00334	4.14214	0.15431	0.02773	0.87166
2.53550	-11.15691	1.97603	-0.42192	-1.34392	0.83706	-0.00334	4.18764	0.15269	0.02745	0.87624
2.59471	-11.29371	1.98802	-0.41801	-1.34215	0.84159	-0.00335	4.22130	0.15164	0.02709	0.88145
2.65604	-11.43298	2.00038	-0.41401	-1.34033	0.84584	-0.00335	4.24457	0.15106	0.02666	0.88742
2.71887	-11.57302	2.01301	-0.40999	-1.33853	0.84985	-0.00335	4.25810	0.15093	0.02616	0.89412
2.78242	-11.71210	2.02572	-0.40600	-1.33676	0.85355	-0.00335	4.26279	0.15118	0.02562	0.90148
2.84819	-11.85285	2.03869	-0.40192	-1.33501	0.85709	-0.00335	4.26042	0.15175	0.02502	0.90970
2.91545	-11.99381	2.05188	-0.39786	-1.33333	0.86047	-0.00335	4.25135	0.15262	0.02439	0.91873
2.98329	-12.13229	2.06487	-0.39381	-1.33175	0.86364	-0.00335	4.23759	0.15371	0.02373	0.92828
3.05344	-12.27211	2.07817	-0.38975	-1.33026	0.86674	-0.00335	4.21895	0.15503	0.02305	0.93834
3.12598	-12.41267	2.09154	-0.38559	-1.32885	0.86973	-0.00334	4.19685	0.15653	0.02234	0.94868
3.19898	-12.55027	2.10474	-0.38154	-1.32758	0.87261	-0.00334	4.17215	0.15816	0.02166	0.95869
3.27439	-12.68840	2.11801	-0.37739	-1.32641	0.87541	-0.00334	4.14494	0.15993	0.02097	0.96837
3.35121	-12.82495	2.13118	-0.37330	-1.32537	0.87815	-0.00333	4.11610	0.16178	0.02030	0.97738
3.43053	-12.96191	2.14438	-0.36911	-1.32443	0.88082	-0.00333	4.08566	0.16375	0.01963	0.98609
3.51124	-13.09716	2.15750	-0.36499	-1.32360	0.88344	-0.00332	4.05453	0.16574	0.01898	0.99458
3.59324	-13.23035	2.17029	-0.36080	-1.32288	0.88594	-0.00332	4.02329	0.16777	0.01834	1.00320
3.67782	-13.36455	2.18340	-0.35666	-1.32225	0.88847	-0.00331	3.99079	0.16985	0.01770	1.01239
3.76506	-13.49758	2.19606	-0.35233	-1.32171	0.89087	-0.00330	3.95931	0.17193	0.01705	1.02253
3.85356	-13.63105	2.20924	-0.34815	-1.32125	0.89331	-0.00330	3.92636	0.17405	0.01642	1.03339
3.94477	-13.76176	2.22159	-0.34376	-1.32089	0.89561	-0.00329	3.89620	0.17608	0.01579	1.04489
4.03714	-13.89398	2.23463	-0.33947	-1.32058	0.89791	-0.00328	3.86398	0.17818	0.01518	1.05660
4.13223	-14.02387	2.24711	-0.33510	-1.32036	0.90017	-0.00327	3.83457	0.18017	0.01459	1.06835
4.23012	-14.15460	2.25962	-0.33055	-1.32023	0.90235	-0.00326	3.80525	0.18218	0.01402	1.07988
4.32900	-14.28594	2.27279	-0.32622	-1.32012	0.90460	-0.00325	3.77526	0.18417	0.01348	1.09058
4.43066	-14.41220	2.28448	-0.32158	-1.32011	0.90662	-0.00324	3.74968	0.18599	0.01296	1.10063
4.53515	-14.54439	2.29764	-0.31697	-1.32011	0.90874	-0.00323	3.72088	0.18795	0.01245	1.11005
4.64253	-14.67491	2.31047	-0.31243	-1.32015	0.91086	-0.00322	3.69434	0.18978	0.01197	1.11878
4.75059	-14.79894	2.32180	-0.30759	-1.32028	0.91269	-0.00321	3.67146	0.19146	0.01150	1.12683
4.86145	-14.93135	2.33535	-0.30294	-1.32040	0.91473	-0.00320	3.64442	0.19330	0.01105	1.13431
4.97760	-15.06093	2.34787	-0.29820	-1.32057	0.91672	-0.00319	3.62130	0.19495	0.01062	1.14141
5.09424	-15.18429	2.35896	-0.29314	-1.32083	0.91842	-0.00318	3.60126	0.19649	0.01020	1.14800
5.21376	-15.31817	2.37285	-0.28832	-1.32107	0.92039	-0.00317	3.57639	0.19820	0.00979	1.15419
5.33618	-15.44539	2.38527	-0.28361	-1.32135	0.92229	-0.00316	3.55617	0.19968	0.00941	1.16003
5.46150	-15.56494	2.39549	-0.27839	-1.32173	0.92385	-0.00315	3.54033	0.20099	0.00902	1.16579
5.58971	-15.69694	2.40890	-0.27333	-1.32210	0.92567	-0.00314	3.51896	0.20253	0.00864	1.17144
5.72082	-15.82855	2.42260	-0.26865	-1.32246	0.92764	-0.00312	3.49879	0.20396	0.00829	1.17703
5.85823	-15.94560	2.43201	-0.26335	-1.32296	0.92911	-0.00311	3.48678	0.20506	0.00792	1.18302
5.99520	-16.06895	2.44334	-0.25802	-1.32347	0.93064	-0.00310	3.47113	0.20632	0.00756	1.18902
6.13497	-16.20471	2.45814	-0.25316	-1.32393	0.93258	-0.00309	3.45092	0.20774	0.00723	1.19499
6.28141	-16.32638	2.46926	-0.24829	-1.32445	0.93425	-0.00307	3.43817	0.20880	0.00691	1.20125
6.42674	-16.43315	2.47689	-0.24294	-1.32508	0.93541	-0.00306	3.43029	0.20966	0.00658	1.20767
6.57895	-16.55909	2.48878	-0.23750	-1.32571	0.93692	-0.00305	3.41596	0.21083	0.00624	1.21431
6.73401	-16.69703	2.50414	-0.23265	-1.32629	0.93887	-0.00304	3.39787	0.21212	0.00594	1.22087
6.89180	-16.80796	2.51324	-0.22793	-1.32691	0.94030	-0.00302	3.38987	0.21291	0.00566	1.22757
7.05716	-16.90870	2.51897	-0.22240	-1.32766	0.94124	-0.00301	3.38580	0.21357	0.00533	1.23473
7.22022	-17.02360	2.52882	-0.21706	-1.32838	0.94250	-0.00300	3.37583	0.21449	0.00502	1.24149
7.39098	-17.15997	2.54378	-0.21201	-1.32911	0.94432	-0.00299	3.36023	0.21565	0.00475	1.24803
7.56430	-17.27606	2.55451	-0.20760	-1.32979	0.94589	-0.00297	3.35138	0.21644	0.00451	1.25418
7.73994	-17.35451	2.55598	-0.20269	-1.33053	0.94647	-0.00296	3.35330	0.21673	0.00422	1.26029
7.92393	-17.45071	2.56109	-0.19734	-1.33133	0.94729	-0.00295	3.34995	0.21730	0.00392	1.26612
8.11030	-17.56300	2.57031	-0.19206	-1.33216	0.94845	-0.00294	3.34181	0.21809	0.00364	1.27137
8.29876	-17.69551	2.58496	-0.18727	-1.33298	0.95020	-0.00293	3.32859	0.21911	0.00341	1.27592
8.49618	-17.78857	2.59033	-0.18316	-1.33371	0.95125	-0.00291	3.32668	0.21951	0.00318	1.28041
8.69565	-17.83882	2.58542	-0.17879	-1.33436	0.95127	-0.00291	3.33450	0.21941	0.00290	1.28514
8.90472	-17.91425	2.58591	-0.17394	-1.33509	0.95170	-0.00290	3.33567	0.21967	0.00261	1.28980
9.11577	-17.99789	2.58864	-0.16912	-1.33584	0.95231	-0.00289	3.33423	0.22004	0.00233	1.29432
9.32836	-18.11461	2.59936	-0.16404	-1.33675	0.95354	-0.00288	3.32494	0.22087	0.00208	1.29863
9.54198	-18.21470	2.60718	-0.16011	-1.33752	0.95469	-0.00286	3.31994	0.22140	0.00189	1.30288
9.76563	-18.23304	2.59605	-0.15757	-1.33781	0.95443	-0.00286	3.33301	0.22083	0.00166	1.30806
10.00000	-18.24745	2.58352	-0.15478	-1.33806	0.95409	-0.00286	3.34615	0.22023	0.00139	1.31413

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Low stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 152 - 305 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-1.76516	2.07037	-0.28636	-2.34858	0.78489	-0.00094	6.21462	0.28517	0.02343	0.28546
PGV	8.49939	1.69834	-0.20982	-3.54955	1.02702	0.00023	16.61665	0.24315	-0.00305	0.45322
PGA	5.77676	1.49569	-0.08315	-3.46477	0.61888	0.00007	10.95740	0.38013	-0.03127	0.79629
0.01000	5.72514	1.50130	-0.08277	-3.45030	0.59538	0.00007	10.86982	0.38439	-0.02132	0.78784
0.01024	5.73557	1.50149	-0.08261	-3.45193	0.59497	0.00007	10.88268	0.38440	-0.02134	0.78820
0.01048	5.74828	1.50168	-0.08244	-3.45396	0.59463	0.00008	10.89948	0.38437	-0.02136	0.78853
0.01072	5.76332	1.50189	-0.08226	-3.45639	0.59436	0.00008	10.92027	0.38430	-0.02138	0.78883
0.01097	5.78076	1.50210	-0.08208	-3.45925	0.59414	0.00008	10.94516	0.38420	-0.02141	0.78912
0.01123	5.80080	1.50233	-0.08188	-3.46255	0.59398	0.00009	10.97447	0.38407	-0.02144	0.78939
0.01150	5.82374	1.50257	-0.08167	-3.46635	0.59388	0.00009	11.00867	0.38389	-0.02148	0.78965
0.01177	5.84987	1.50284	-0.08144	-3.47070	0.59382	0.00009	11.04825	0.38367	-0.02153	0.78991
0.01205	5.87945	1.50312	-0.08119	-3.47564	0.59382	0.00010	11.09365	0.38340	-0.02158	0.79017
0.01233	5.91280	1.50344	-0.08093	-3.48123	0.59386	0.00010	11.14538	0.38309	-0.02164	0.79045
0.01262	5.95043	1.50378	-0.08064	-3.48755	0.59395	0.00011	11.20433	0.38273	-0.02170	0.79073
0.01292	5.99297	1.50416	-0.08033	-3.49472	0.59411	0.00012	11.27155	0.38230	-0.02177	0.79103
0.01322	6.04111	1.50459	-0.07999	-3.50284	0.59433	0.00012	11.34830	0.38181	-0.02185	0.79137
0.01353	6.09565	1.50505	-0.07962	-3.51205	0.59463	0.00013	11.43601	0.38125	-0.02195	0.79177
0.01385	6.15740	1.50557	-0.07921	-3.52248	0.59500	0.00014	11.53610	0.38060	-0.02205	0.79224
0.01417	6.22690	1.50615	-0.07875	-3.53423	0.59544	0.00015	11.64953	0.37986	-0.02217	0.79280
0.01451	6.30479	1.50678	-0.07825	-3.54738	0.59593	0.00017	11.77744	0.37904	-0.02229	0.79344
0.01485	6.39184	1.50749	-0.07770	-3.56207	0.59646	0.00018	11.92118	0.37813	-0.02243	0.79421
0.01520	6.48817	1.50826	-0.07709	-3.57829	0.59700	0.00020	12.08092	0.37713	-0.02258	0.79513
0.01556	6.59455	1.50914	-0.07640	-3.59617	0.59754	0.00021	12.25809	0.37606	-0.02276	0.79624
0.01592	6.71317	1.51013	-0.07563	-3.61607	0.59814	0.00023	12.45681	0.37488	-0.02295	0.79757
0.01630	6.84504	1.51128	-0.07477	-3.63819	0.59888	0.00025	12.67896	0.37360	-0.02316	0.79905
0.01668	6.98936	1.51257	-0.07382	-3.66237	0.59969	0.00027	12.92331	0.37224	-0.02338	0.80068
0.01707	7.14322	1.51399	-0.07279	-3.68806	0.60053	0.00029	13.18527	0.37083	-0.02362	0.80248
0.01748	7.30259	1.51545	-0.07167	-3.71443	0.60130	0.00032	13.45907	0.36942	-0.02389	0.80454
0.01789	7.46287	1.51686	-0.07045	-3.74054	0.60171	0.00034	13.73650	0.36809	-0.02419	0.80680
0.01831	7.61922	1.51819	-0.06914	-3.76555	0.60158	0.00035	14.00674	0.36693	-0.02448	0.80911
0.01874	7.76802	1.51946	-0.06773	-3.78888	0.60095	0.00037	14.26129	0.36597	-0.02479	0.81151
0.01918	7.91021	1.52070	-0.06623	-3.81073	0.59986	0.00039	14.50093	0.36523	-0.02511	0.81407
0.01963	8.05034	1.52205	-0.06464	-3.83196	0.59846	0.00040	14.73498	0.36463	-0.02545	0.81677
0.02009	8.19110	1.52357	-0.06294	-3.85296	0.59675	0.00041	14.97221	0.36413	-0.02578	0.81948
0.02057	8.32589	1.52525	-0.06117	-3.87262	0.59460	0.00042	15.20024	0.36380	-0.02606	0.82184
0.02105	8.43586	1.52702	-0.05936	-3.88786	0.59189	0.00042	15.37776	0.36388	-0.02630	0.82392
0.02154	8.50887	1.52877	-0.05752	-3.89671	0.58823	0.00042	15.47540	0.36454	-0.02653	0.82594
0.02205	8.56328	1.53060	-0.05574	-3.90250	0.58356	0.00042	15.52616	0.36555	-0.02673	0.82769
0.02257	8.62317	1.53271	-0.05404	-3.90953	0.57872	0.00042	15.57945	0.36659	-0.02688	0.82922
0.02310	8.68302	1.53485	-0.05240	-3.91659	0.57449	0.00042	15.63195	0.36762	-0.02703	0.83072
0.02364	8.73307	1.53667	-0.05080	-3.92168	0.57083	0.00041	15.67101	0.36866	-0.02727	0.83280
0.02420	8.78876	1.53838	-0.04927	-3.92773	0.56723	0.00040	15.72457	0.36956	-0.02765	0.83586
0.02477	8.84763	1.54045	-0.04787	-3.93469	0.56295	0.00040	15.78122	0.37048	-0.02805	0.83907
0.02535	8.88493	1.54292	-0.04654	-3.93825	0.55708	0.00040	15.78647	0.37183	-0.02830	0.84119
0.02595	8.87603	1.54547	-0.04517	-3.93373	0.54984	0.00039	15.69440	0.37393	-0.02834	0.84194
0.02656	8.81295	1.54768	-0.04367	-3.91932	0.54247	0.00037	15.50228	0.37672	-0.02830	0.84211
0.02719	8.70008	1.54933	-0.04207	-3.89574	0.53509	0.00033	15.22209	0.38009	-0.02823	0.84210
0.02783	8.54711	1.55061	-0.04044	-3.86498	0.52689	0.00029	14.86766	0.38403	-0.02811	0.84185
0.02848	8.37312	1.55221	-0.03883	-3.83093	0.51836	0.00025	14.47458	0.38838	-0.02799	0.84173
0.02915	8.18790	1.55468	-0.03720	-3.79566	0.50993	0.00020	14.06129	0.39306	-0.02787	0.84187
0.02984	8.00271	1.55791	-0.03555	-3.76116	0.50109	0.00015	13.64468	0.39797	-0.02774	0.84190
0.03054	7.81389	1.56094	-0.03389	-3.72595	0.49096	0.00011	13.22143	0.40306	-0.02759	0.84184
0.03126	7.61828	1.56314	-0.03232	-3.68889	0.47951	0.00007	12.79252	0.40830	-0.02745	0.84182
0.03199	7.40109	1.56451	-0.03087	-3.64743	0.46688	0.00003	12.33153	0.41393	-0.02729	0.84174
0.03275	7.12933	1.56503	-0.02944	-3.59578	0.45270	-0.00002	11.78252	0.42054	-0.02704	0.84127
0.03352	6.82161	1.56524	-0.02789	-3.53770	0.43870	-0.00008	11.18638	0.42785	-0.02678	0.84081
0.03430	6.51182	1.56604	-0.02619	-3.47994	0.42762	-0.00014	10.60816	0.43524	-0.02666	0.84139
0.03511	6.20690	1.56796	-0.02440	-3.42428	0.41923	-0.00021	10.05377	0.44269	-0.02662	0.84256
0.03594	5.88906	1.57050	-0.02256	-3.36723	0.41144	-0.00029	9.48739	0.45068	-0.02659	0.84384
0.03678	5.56603	1.57328	-0.02067	-3.30963	0.40393	-0.00037	8.92483	0.45907	-0.02654	0.84501
0.03765	5.25855	1.57679	-0.01870	-3.25508	0.39606	-0.00044	8.40095	0.46759	-0.02636	0.84525
0.03854	4.95396	1.58066	-0.01661	-3.20096	0.38594	-0.00051	7.89629	0.47650	-0.02599	0.84407
0.03944	4.63602	1.58401	-0.01447	-3.14400	0.37360	-0.00058	7.38760	0.48603	-0.02551	0.84177
0.04037	4.32361	1.58685	-0.01244	-3.08762	0.36088	-0.00064	6.90248	0.49571	-0.02498	0.83895
0.04132	4.03145	1.58867	-0.01061	-3.03432	0.34960	-0.00070	6.46235	0.50495	-0.02464	0.83720
0.04229	3.76586	1.58876	-0.00913	-2.98476	0.33958	-0.00075	6.07418	0.51340	-0.02465	0.83767
0.04329	3.54905	1.58820	-0.00820	-2.94363	0.32952	-0.00079	5.75942	0.52066	-0.02488	0.83957
0.04431	3.36931	1.58858	-0.00755	-2.91018	0.31927	-0.00081	5.49490	0.52724	-0.02509	0.84132
0.04535	3.21187	1.59010	-0.00691	-2.88175	0.31035	-0.00083	5.26303	0.53343	-0.02521	0.84238

0.04642	3.06168	1.59255	-0.00613	-2.85498	0.30316	-0.00085	5.05148	0.53949	-0.02527	0.84308
0.04751	2.88723	1.59577	-0.00515	-2.82422	0.29591	-0.00089	4.82104	0.54639	-0.02529	0.84353
0.04863	2.70481	1.59979	-0.00421	-2.79297	0.28735	-0.00092	4.58183	0.55394	-0.02520	0.84338
0.04977	2.53021	1.60384	-0.00338	-2.76335	0.27751	-0.00094	4.35208	0.56160	-0.02495	0.84217
0.05094	2.33455	1.60656	-0.00242	-2.72834	0.26597	-0.00097	4.11165	0.56992	-0.02461	0.84027
0.05214	2.09347	1.60846	-0.00105	-2.68372	0.25385	-0.00102	3.84314	0.57963	-0.02414	0.83712
0.05337	1.83263	1.61085	0.00062	-2.63583	0.24299	-0.00108	3.56987	0.59017	-0.02344	0.83206
0.05462	1.59642	1.61330	0.00208	-2.59264	0.23299	-0.00113	3.32847	0.60021	-0.02264	0.82624
0.05591	1.41237	1.61474	0.00289	-2.55821	0.22278	-0.00116	3.13893	0.60868	-0.02198	0.82154
0.05722	1.26227	1.61556	0.00318	-2.52992	0.21211	-0.00118	2.98072	0.61614	-0.02150	0.81853
0.05857	1.09461	1.61561	0.00342	-2.49872	0.20029	-0.00119	2.80914	0.62434	-0.02110	0.81646
0.05995	0.89501	1.61358	0.00364	-2.46104	0.18754	-0.00120	2.61655	0.63357	-0.02092	0.81621
0.06136	0.67569	1.60898	0.00379	-2.41833	0.17433	-0.00121	2.41606	0.64343	-0.02117	0.81888
0.06280	0.47464	1.60245	0.00364	-2.37754	0.16143	-0.00122	2.23622	0.65267	-0.02162	0.82272
0.06428	0.32661	1.59543	0.00288	-2.34539	0.15074	-0.00122	2.10464	0.65969	-0.02181	0.82476
0.06579	0.22315	1.58927	0.00159	-2.32117	0.14196	-0.00122	2.01432	0.66471	-0.02157	0.82382
0.06734	0.14710	1.58490	0.00010	-2.30289	0.13411	-0.00121	1.94791	0.66870	-0.02102	0.82087
0.06893	0.08884	1.58200	-0.00149	-2.28883	0.12711	-0.00120	1.89491	0.67217	-0.02048	0.81831
0.07055	0.03186	1.57974	-0.00328	-2.27537	0.12013	-0.00119	1.84294	0.67578	-0.02014	0.81740
0.07221	-0.04374	1.57767	-0.00506	-2.25860	0.11190	-0.00119	1.78030	0.68031	-0.01992	0.81731
0.07391	-0.13523	1.57546	-0.00669	-2.23932	0.10431	-0.00119	1.71150	0.68524	-0.01983	0.81773
0.07565	-0.21394	1.57279	-0.00843	-2.22262	0.09979	-0.00119	1.65410	0.68913	-0.01984	0.81843
0.07743	-0.27330	1.57017	-0.01035	-2.20946	0.09822	-0.00119	1.61067	0.69198	-0.01968	0.81769
0.07925	-0.34082	1.56746	-0.01211	-2.19438	0.09757	-0.00120	1.56356	0.69526	-0.01943	0.81618
0.08111	-0.43666	1.56394	-0.01349	-2.17311	0.09556	-0.00122	1.50043	0.70002	-0.01921	0.81476
0.08302	-0.55878	1.56020	-0.01432	-2.14672	0.09264	-0.00125	1.42481	0.70613	-0.01881	0.81209
0.08498	-0.68483	1.55686	-0.01488	-2.12009	0.08973	-0.00129	1.35132	0.71233	-0.01826	0.80850
0.08697	-0.78482	1.55435	-0.01589	-2.09910	0.08707	-0.00131	1.29581	0.71709	-0.01771	0.80550
0.08902	-0.84954	1.55293	-0.01756	-2.08529	0.08654	-0.00134	1.26368	0.71969	-0.01723	0.80343
0.09112	-0.89173	1.55245	-0.01963	-2.07622	0.08872	-0.00137	1.24813	0.72064	-0.01683	0.80219
0.09326	-0.91590	1.55199	-0.02202	-2.07084	0.09257	-0.00139	1.24432	0.72019	-0.01652	0.80171
0.09545	-0.92209	1.54954	-0.02475	-2.06781	0.09875	-0.00141	1.24960	0.71821	-0.01640	0.80254
0.09770	-0.92494	1.54468	-0.02763	-2.06407	0.10807	-0.00144	1.25590	0.71546	-0.01655	0.80510
0.10000	-0.95035	1.53951	-0.03026	-2.05613	0.11878	-0.00147	1.25008	0.71379	-0.01704	0.81011
0.10235	-1.00039	1.53480	-0.03264	-2.04362	0.12766	-0.00151	1.22917	0.71399	-0.01797	0.81827
0.10476	-1.05545	1.52908	-0.03528	-2.02850	0.13167	-0.00153	1.20116	0.71526	-0.01921	0.82878
0.10723	-1.10467	1.52270	-0.03818	-2.01339	0.13345	-0.00155	1.17493	0.71648	-0.02017	0.83787
0.10975	-1.16575	1.51681	-0.04084	-1.99675	0.13646	-0.00158	1.14423	0.71815	-0.02035	0.84219
0.11233	-1.24278	1.51149	-0.04309	-1.97828	0.13823	-0.00161	1.10475	0.72090	-0.01993	0.84241
0.11498	-1.32243	1.50739	-0.04505	-1.96077	0.13563	-0.00162	1.06235	0.72450	-0.01938	0.84145
0.11768	-1.39206	1.50472	-0.04705	-1.94622	0.12946	-0.00161	1.02612	0.72793	-0.01898	0.84152
0.12045	-1.43164	1.50215	-0.04964	-1.93716	0.12362	-0.00160	1.00684	0.72931	-0.01862	0.84190
0.12328	-1.43143	1.49793	-0.05303	-1.93447	0.11967	-0.00158	1.00605	0.72790	-0.01817	0.84178
0.12619	-1.41557	1.49137	-0.05690	-1.93317	0.11634	-0.00154	1.01021	0.72538	-0.01778	0.84176
0.12916	-1.40196	1.48385	-0.06114	-1.93084	0.11388	-0.00150	1.01303	0.72277	-0.01747	0.84194
0.13219	-1.37788	1.47767	-0.06563	-1.93185	0.11580	-0.00148	1.02502	0.71894	-0.01710	0.84127
0.13531	-1.33676	1.47416	-0.06991	-1.93881	0.12404	-0.00146	1.05110	0.71347	-0.01648	0.83838
0.13849	-1.31203	1.47265	-0.07361	-1.94488	0.13570	-0.00146	1.07184	0.70884	-0.01556	0.83282
0.14175	-1.34166	1.47124	-0.07661	-1.94103	0.14542	-0.00147	1.06276	0.70788	-0.01433	0.82480
0.14508	-1.41265	1.46903	-0.07924	-1.92859	0.15089	-0.00149	1.02955	0.70993	-0.01286	0.81473
0.14850	-1.48217	1.46627	-0.08200	-1.91560	0.15365	-0.00150	0.99723	0.71202	-0.01144	0.80451
0.15199	-1.53069	1.46304	-0.08509	-1.90576	0.15473	-0.00150	0.97782	0.71253	-0.01046	0.79668
0.15557	-1.57266	1.45917	-0.08846	-1.89610	0.15252	-0.00151	0.96450	0.71227	-0.00988	0.79154
0.15923	-1.62655	1.45469	-0.09209	-1.88325	0.14707	-0.00151	0.94718	0.71255	-0.00964	0.78903
0.16298	-1.69689	1.45017	-0.09582	-1.86731	0.14229	-0.00152	0.92237	0.71377	-0.00955	0.78829
0.16681	-1.78948	1.44563	-0.09913	-1.84746	0.14064	-0.00154	0.88629	0.71652	-0.00929	0.78690
0.17074	-1.89591	1.44166	-0.10167	-1.82564	0.14360	-0.00157	0.84440	0.72029	-0.00897	0.78514
0.17475	-1.98593	1.43943	-0.10371	-1.80839	0.15251	-0.00162	0.81362	0.72272	-0.00894	0.78547
0.17887	-2.03157	1.43850	-0.10617	-1.80054	0.16606	-0.00168	0.80683	0.72150	-0.00925	0.78825
0.18307	-2.03809	1.43747	-0.10967	-1.80014	0.17895	-0.00173	0.81928	0.71715	-0.00944	0.79059
0.18738	-2.03688	1.43524	-0.11395	-1.80062	0.18683	-0.00174	0.83498	0.71213	-0.00924	0.79052
0.19179	-2.05163	1.43054	-0.11856	-1.79611	0.19037	-0.00175	0.84309	0.70789	-0.00882	0.78898
0.19631	-2.09975	1.42307	-0.12303	-1.78239	0.19214	-0.00175	0.83618	0.70551	-0.00861	0.78882
0.20092	-2.18825	1.41493	-0.12677	-1.75952	0.19328	-0.00178	0.81126	0.70605	-0.00881	0.79138
0.20565	-2.32104	1.40829	-0.12938	-1.72874	0.19139	-0.00182	0.76496	0.71088	-0.00918	0.79492
0.21049	-2.47371	1.40419	-0.13126	-1.69622	0.18415	-0.00186	0.70705	0.71912	-0.00926	0.79617
0.21544	-2.59870	1.40256	-0.13339	-1.67175	0.17294	-0.00186	0.65861	0.72704	-0.00875	0.79325
0.22051	-2.66331	1.40206	-0.13655	-1.66081	0.16173	-0.00182	0.63368	0.73087	-0.00774	0.78669
0.22570	-2.66520	1.40103	-0.14091	-1.66220	0.15470	-0.00175	0.63479	0.72903	-0.00660	0.77920
0.23101	-2.63077	1.39928	-0.14585	-1.67010	0.15419	-0.00170	0.65429	0.72299	-0.00560	0.77310
0.23645	-2.59435	1.39764	-0.15068	-1.67824	0.16013	-0.00168	0.68061	0.71547	-0.00481	0.76875
0.24201	-2.56904	1.39697	-0.15513	-1.68464	0.17161	-0.00169	0.70925	0.70774	-0.00417	0.76555
0.24771	-2.53871	1.39763	-0.15943	-1.69269	0.18956	-0.00173	0.74754	0.69874	-0.00380	0.76434
0.25354	-2.48247	1.39950	-0.16389	-1.70656	0.21483	-0.00177	0.80362	0.68745	-0.00393	0.76664
0.25950	-2.41863	1.40202	-0.16834	-1.72273	0.24379	-0.00182	0.86433	0.67622	-0.00440	0.77161
0.26561	-2.39639	1.40367	-0.17236	-1.73065	0.26883	-0.00186	0.89849	0.66921	-0.00473	0.77625
0.27186	-2.43694	1.40320	-0.17587	-1.72497	0.28455	-0.00190	0.89263	0.66762	-0.00468	0.77875
0.27826	-2.52090	1.40105	-0.17903	-1.70939	0.29039	-0.00192	0.86057	0.66962	-0.00436	0.77989
0.28480	-2.61375	1.39852	-0.18212	-1.69170	0.28825	-0.00192	0.82443	0.67244	-0.00404	0.78158
0.29150	-2.69466	1.39658	-0.18541	-1.67707	0.28116	-0.00191	0.79651	0.67424	-0.00380	0.78415
0.29836	-2.75579	1.39530	-0.18915	-1.66728	0.27453	-0.00189	0.78125	0.67401	-0.00352	0.78637

0.30539	-2.79131	1.39460	-0.19349	-1.66318	0.27353	-0.00188	0.78223	0.67097	-0.00304	0.78702
0.31257	-2.79984	1.39509	-0.19818	-1.66546	0.27971	-0.00188	0.80049	0.66522	-0.00244	0.78662
0.31993	-2.79256	1.39745	-0.20285	-1.67275	0.29096	-0.00188	0.82998	0.65811	-0.00182	0.78563
0.32745	-2.78503	1.40123	-0.20735	-1.68174	0.30312	-0.00189	0.86130	0.65113	-0.00121	0.78407
0.33517	-2.78421	1.40483	-0.21191	-1.68958	0.31177	-0.00188	0.88946	0.64475	-0.00070	0.78256
0.34304	-2.79321	1.40657	-0.21672	-1.69384	0.31397	-0.00185	0.91148	0.63903	-0.00045	0.78201
0.35112	-2.81782	1.40587	-0.22180	-1.69257	0.30918	-0.00180	0.92394	0.63428	-0.00057	0.78323
0.35938	-2.86731	1.40326	-0.22699	-1.68425	0.29876	-0.00175	0.92100	0.63139	-0.00102	0.78624
0.36784	-2.93824	1.40010	-0.23224	-1.67097	0.28600	-0.00171	0.90548	0.63012	-0.00152	0.78944
0.37649	-3.02260	1.39790	-0.23741	-1.65602	0.27444	-0.00168	0.88403	0.62976	-0.00173	0.79085
0.38536	-3.11305	1.39765	-0.24236	-1.64207	0.26650	-0.00167	0.86254	0.62961	-0.00158	0.78994
0.39442	-3.20743	1.39971	-0.24703	-1.62992	0.26251	-0.00167	0.84280	0.62950	-0.00109	0.78704
0.40370	-3.30567	1.40408	-0.25143	-1.61963	0.26168	-0.00169	0.82399	0.62956	-0.00034	0.78285
0.41321	-3.41608	1.40977	-0.25560	-1.60852	0.26104	-0.00171	0.79954	0.63070	0.00048	0.77882
0.42292	-3.54848	1.41516	-0.25962	-1.59290	0.25800	-0.00174	0.76347	0.63370	0.00112	0.77641
0.43288	-3.69909	1.41902	-0.26381	-1.57199	0.25150	-0.00176	0.71889	0.63806	0.00146	0.77629
0.44307	-3.85064	1.42126	-0.26839	-1.54881	0.24244	-0.00178	0.67573	0.64237	0.00152	0.77851
0.45349	-3.99468	1.42213	-0.27332	-1.52513	0.23119	-0.00179	0.63795	0.64606	0.00134	0.78281
0.46417	-4.13343	1.42181	-0.27841	-1.50050	0.21642	-0.00178	0.60330	0.64959	0.00096	0.78900
0.47508	-4.26817	1.42111	-0.28340	-1.47554	0.19824	-0.00177	0.57067	0.65331	0.00035	0.79706
0.48626	-4.39355	1.42138	-0.28812	-1.45309	0.17961	-0.00175	0.54277	0.65679	-0.00049	0.80665
0.49771	-4.50005	1.42381	-0.29266	-1.43686	0.16514	-0.00173	0.52428	0.65887	-0.00137	0.81636
0.50942	-4.57958	1.42887	-0.29721	-1.42946	0.15910	-0.00173	0.51925	0.65824	-0.00205	0.82427
0.52140	-4.62669	1.43621	-0.30198	-1.43180	0.16375	-0.00173	0.53057	0.65389	-0.00243	0.82960
0.53367	-4.63900	1.44509	-0.30704	-1.44363	0.17969	-0.00174	0.56000	0.64553	-0.00268	0.83368
0.54624	-4.62000	1.45485	-0.31226	-1.46336	0.20573	-0.00177	0.60735	0.63380	-0.00302	0.83817
0.55910	-4.58497	1.46491	-0.31740	-1.48686	0.23805	-0.00180	0.66671	0.62059	-0.00346	0.84335
0.57225	-4.56059	1.47465	-0.32225	-1.50760	0.27078	-0.00184	0.72391	0.60873	-0.00383	0.84816
0.58569	-4.56758	1.48350	-0.32677	-1.52047	0.29907	-0.00190	0.76534	0.60006	-0.00394	0.85142
0.59948	-4.60684	1.49117	-0.33113	-1.52516	0.32166	-0.00195	0.78833	0.59438	-0.00370	0.85258
0.61357	-4.66572	1.49743	-0.33552	-1.52422	0.33923	-0.00200	0.79908	0.59036	-0.00320	0.85207
0.62802	-4.73036	1.50240	-0.34004	-1.52075	0.35314	-0.00204	0.80620	0.58658	-0.00264	0.85096
0.64280	-4.79385	1.50634	-0.34465	-1.51648	0.36388	-0.00207	0.81442	0.58234	-0.00218	0.85030
0.65794	-4.85915	1.50960	-0.34930	-1.51121	0.37108	-0.00209	0.82221	0.57794	-0.00183	0.85029
0.67340	-4.93436	1.51223	-0.35402	-1.50343	0.37332	-0.00210	0.82388	0.57419	-0.00148	0.85044
0.68927	-5.02470	1.51415	-0.35891	-1.49214	0.36907	-0.00209	0.81600	0.57152	-0.00106	0.85047
0.70547	-5.12342	1.51574	-0.36400	-1.47920	0.35922	-0.00207	0.80313	0.56933	-0.00059	0.85063
0.72207	-5.22274	1.51776	-0.36924	-1.46717	0.34609	-0.00204	0.79217	0.56668	-0.00008	0.85099
0.73910	-5.32296	1.52081	-0.37452	-1.45679	0.33175	-0.00200	0.78486	0.56328	0.00060	0.85041
0.75649	-5.42901	1.52496	-0.37975	-1.44719	0.31757	-0.00195	0.77914	0.55937	0.00162	0.84710
0.77429	-5.54442	1.52997	-0.38494	-1.43729	0.30566	-0.00191	0.77370	0.55504	0.00301	0.84041
0.79246	-5.66514	1.53553	-0.38999	-1.42734	0.29896	-0.00190	0.77110	0.54994	0.00448	0.83190
0.81116	-5.78786	1.54157	-0.39488	-1.41783	0.29869	-0.00191	0.77338	0.54381	0.00563	0.82440
0.83022	-5.91138	1.54811	-0.39950	-1.40882	0.30313	-0.00193	0.77876	0.53716	0.00619	0.82007
0.84976	-6.04063	1.55548	-0.40381	-1.39970	0.30950	-0.00197	0.78307	0.53077	0.00623	0.81878
0.86972	-6.17896	1.56396	-0.40780	-1.39012	0.31525	-0.00200	0.78265	0.52532	0.00615	0.81828
0.89023	-6.33029	1.57355	-0.41155	-1.37934	0.31868	-0.00203	0.77473	0.52117	0.00632	0.81631
0.91116	-6.49174	1.58368	-0.41518	-1.36713	0.31996	-0.00205	0.76005	0.51817	0.00682	0.81244
0.93257	-6.65730	1.59381	-0.41883	-1.35390	0.32049	-0.00208	0.74268	0.51561	0.00756	0.80739
0.95456	-6.82111	1.60370	-0.42259	-1.34053	0.32203	-0.00211	0.72663	0.51285	0.00845	0.80176
0.97704	-6.97746	1.61341	-0.42634	-1.32819	0.32602	-0.00215	0.71508	0.50947	0.00944	0.79613
1.00000	-7.12258	1.62311	-0.42993	-1.31780	0.33305	-0.00219	0.71032	0.50519	0.01037	0.79162
1.02354	-7.25466	1.63298	-0.43328	-1.30982	0.34305	-0.00223	0.71364	0.49993	0.01106	0.78955
1.04767	-7.37237	1.64314	-0.43642	-1.30452	0.35531	-0.00227	0.72526	0.49386	0.01141	0.79063
1.07227	-7.47618	1.65363	-0.43936	-1.30175	0.36870	-0.00230	0.74347	0.48749	0.01142	0.79481
1.09745	-7.56994	1.66443	-0.44213	-1.30074	0.38208	-0.00232	0.76467	0.48147	0.01110	0.80185
1.12334	-7.65682	1.67548	-0.44475	-1.30080	0.39476	-0.00234	0.78581	0.47627	0.01044	0.81156
1.14982	-7.73736	1.68659	-0.44722	-1.30160	0.40632	-0.00235	0.80567	0.47202	0.00946	0.82361
1.17675	-7.81111	1.69761	-0.44952	-1.30305	0.41662	-0.00235	0.82439	0.46864	0.00819	0.83748
1.20453	-7.87850	1.70875	-0.45173	-1.30537	0.42611	-0.00235	0.84339	0.46586	0.00667	0.85263
1.23289	-7.93869	1.72001	-0.45384	-1.30874	0.43521	-0.00234	0.86319	0.46357	0.00505	0.86793
1.26183	-7.99287	1.73149	-0.45592	-1.31306	0.44422	-0.00234	0.88339	0.46175	0.00344	0.88239
1.29149	-8.04249	1.74331	-0.45802	-1.31828	0.45362	-0.00233	0.90390	0.46031	0.00197	0.89523
1.32188	-8.08919	1.75547	-0.46018	-1.32417	0.46356	-0.00233	0.92430	0.45919	0.00077	0.90576
1.35300	-8.13459	1.76789	-0.46243	-1.33040	0.47398	-0.00233	0.94449	0.45825	-0.00011	0.91367
1.38485	-8.18041	1.78038	-0.46477	-1.33651	0.48446	-0.00234	0.96417	0.45739	-0.00063	0.91912
1.41743	-8.22826	1.79274	-0.46719	-1.34208	0.49489	-0.00235	0.98292	0.45647	-0.00084	0.92256
1.45075	-8.28043	1.80480	-0.46971	-1.34655	0.50459	-0.00236	0.99949	0.45550	-0.00079	0.92451
1.48500	-8.33917	1.81648	-0.47232	-1.34950	0.51302	-0.00238	1.01314	0.45446	-0.00050	0.92535
1.51999	-8.40504	1.82762	-0.47503	-1.35079	0.51978	-0.00239	1.02386	0.45321	-0.00003	0.92539
1.55569	-8.47789	1.83820	-0.47780	-1.35059	0.52494	-0.00241	1.03268	0.45153	0.00062	0.92489
1.59236	-8.55796	1.84832	-0.48063	-1.34920	0.52887	-0.00242	1.04094	0.44919	0.00142	0.92396
1.62973	-8.64421	1.85796	-0.48347	-1.34690	0.53161	-0.00244	1.05037	0.44597	0.00238	0.92269
1.66806	-8.73743	1.86720	-0.48629	-1.34376	0.53321	-0.00245	1.06238	0.44167	0.00345	0.92141
1.70736	-8.83582	1.87606	-0.48904	-1.34023	0.53416	-0.00246	1.08044	0.43591	0.00457	0.92068
1.74764	-8.93564	1.88462	-0.49173	-1.33723	0.53538	-0.00247	1.11028	0.42814	0.00566	0.92101
1.78859	-9.03082	1.89292	-0.49430	-1.33611	0.53838	-0.00248	1.15944	0.41783	0.00669	0.92265
1.83083	-9.11806	1.90114	-0.49672	-1.33801	0.54475	-0.00248	1.23717	0.40434	0.00763	0.92572
1.87371	-9.19405	1.90932	-0.49882	-1.34355	0.55497	-0.00249	1.34856	0.38800	0.00846	0.93011
1.91791	-9.26209	1.91775	-0.50051	-1.35255	0.56917	-0.00250	1.49727	0.36923	0.00925	0.93533
1.96309	-9.32663	1.92649	-0.50161	-1.36399	0.58653	-0.00252	1.67949	0.34920	0.01006	0.94057

2.00924	-9.39182	1.93562	-0.50202	-1.37700	0.60633	-0.00253	1.89117	0.32877	0.01097	0.94500
2.05634	-9.46156	1.94510	-0.50170	-1.39055	0.62730	-0.00254	2.12652	0.30862	0.01204	0.94815
2.10482	-9.53960	1.95487	-0.50064	-1.40373	0.64836	-0.00255	2.38120	0.28903	0.01322	0.95004
2.15424	-9.62663	1.96458	-0.49887	-1.41559	0.66845	-0.00257	2.64740	0.27039	0.01444	0.95098
2.20507	-9.72473	1.97414	-0.49646	-1.42555	0.68718	-0.00258	2.92091	0.25269	0.01562	0.95123
2.25683	-9.83521	1.98353	-0.49352	-1.43284	0.70376	-0.00259	3.18955	0.23633	0.01676	0.95078
2.31000	-9.95977	1.99294	-0.49010	-1.43737	0.71856	-0.00260	3.44768	0.22128	0.01791	0.94937
2.36463	-10.09766	2.00243	-0.48626	-1.43926	0.73194	-0.00262	3.69054	0.20749	0.01910	0.94679
2.42014	-10.24491	2.01193	-0.48208	-1.43903	0.74435	-0.00264	3.91444	0.19500	0.02031	0.94312
2.47709	-10.40021	2.02156	-0.47756	-1.43720	0.75633	-0.00267	4.12147	0.18361	0.02151	0.93879
2.53550	-10.56048	2.03134	-0.47272	-1.43432	0.76798	-0.00269	4.31210	0.17333	0.02261	0.93458
2.59471	-10.72338	2.04113	-0.46767	-1.43042	0.77875	-0.00272	4.48000	0.16428	0.02352	0.93134
2.65604	-10.89126	2.05115	-0.46234	-1.42558	0.78863	-0.00274	4.62751	0.15627	0.02420	0.92945
2.71887	-11.06221	2.06134	-0.45685	-1.41983	0.79718	-0.00277	4.74919	0.14942	0.02464	0.92915
2.78242	-11.23318	2.07161	-0.45134	-1.41349	0.80443	-0.00279	4.84443	0.14373	0.02485	0.93040
2.84819	-11.40670	2.08214	-0.44570	-1.40670	0.81068	-0.00282	4.91745	0.13898	0.02488	0.93322
2.91545	-11.58033	2.09289	-0.44008	-1.39965	0.81586	-0.00284	4.96800	0.13516	0.02474	0.93761
2.98329	-11.75027	2.10354	-0.43454	-1.39269	0.82008	-0.00285	4.99963	0.13221	0.02446	0.94325
3.05344	-11.91962	2.11448	-0.42902	-1.38594	0.82377	-0.00287	5.01808	0.12990	0.02407	0.94998
3.12598	-12.08803	2.12552	-0.42349	-1.37941	0.82699	-0.00288	5.02544	0.12815	0.02360	0.95743
3.19898	-12.25046	2.13647	-0.41815	-1.37340	0.82989	-0.00289	5.02393	0.12693	0.02311	0.96499
3.27439	-12.41154	2.14753	-0.41281	-1.36773	0.83262	-0.00290	5.01454	0.12617	0.02261	0.97246
3.35121	-12.56847	2.15858	-0.40761	-1.36257	0.83523	-0.00291	4.99866	0.12583	0.02210	0.97953
3.43053	-12.72396	2.16970	-0.40240	-1.35780	0.83776	-0.00292	4.97652	0.12589	0.02159	0.98647
3.51124	-12.87533	2.18083	-0.39735	-1.35354	0.84027	-0.00293	4.94933	0.12630	0.02108	0.99343
3.59324	-13.02283	2.19176	-0.39235	-1.34970	0.84265	-0.00293	4.91718	0.12706	0.02055	1.00071
3.67782	-13.16940	2.20302	-0.38744	-1.34624	0.84507	-0.00293	4.88043	0.12811	0.02001	1.00877
3.76506	-13.31369	2.21396	-0.38247	-1.34310	0.84737	-0.00294	4.83973	0.12947	0.01944	1.01798
3.85356	-13.45657	2.22542	-0.37766	-1.34032	0.84970	-0.00294	4.79505	0.13107	0.01885	1.02809
3.94477	-13.59590	2.23620	-0.37279	-1.33781	0.85190	-0.00294	4.74913	0.13285	0.01825	1.03905
4.03714	-13.73513	2.24765	-0.36803	-1.33557	0.85412	-0.00294	4.69964	0.13483	0.01764	1.05038
4.13223	-13.87147	2.25864	-0.36329	-1.33355	0.85630	-0.00293	4.65092	0.13686	0.01703	1.06191
4.23012	-14.00782	2.26968	-0.35844	-1.33170	0.85840	-0.00293	4.60025	0.13905	0.01641	1.07333
4.32900	-14.14377	2.28140	-0.35377	-1.33007	0.86060	-0.00293	4.54973	0.14125	0.01582	1.08401
4.43066	-14.27427	2.29178	-0.34899	-1.32859	0.86258	-0.00292	4.50197	0.14344	0.01525	1.09410
4.53515	-14.40968	2.30355	-0.34416	-1.32729	0.86473	-0.00292	4.45147	0.14577	0.01468	1.10360
4.64253	-14.54303	2.31513	-0.33943	-1.32617	0.86688	-0.00292	4.40349	0.14803	0.01413	1.11248
4.75059	-14.66919	2.32530	-0.33460	-1.32522	0.86877	-0.00291	4.35814	0.15028	0.01360	1.12073
4.86145	-14.80334	2.33763	-0.32979	-1.32436	0.87090	-0.00290	4.30929	0.15267	0.01307	1.12846
4.97760	-14.93450	2.34907	-0.32497	-1.32364	0.87297	-0.00290	4.26436	0.15494	0.01255	1.13585
5.09424	-15.05875	2.35914	-0.32004	-1.32306	0.87476	-0.00289	4.22156	0.15719	0.01203	1.14281
5.21376	-15.19360	2.37196	-0.31511	-1.32252	0.87684	-0.00288	4.17467	0.15959	0.01152	1.14940
5.33618	-15.32178	2.38348	-0.31035	-1.32211	0.87882	-0.00288	4.13363	0.16176	0.01103	1.15567
5.46150	-15.44149	2.39282	-0.30539	-1.32179	0.88045	-0.00287	4.09585	0.16387	0.01053	1.16191
5.58971	-15.57399	2.40532	-0.30032	-1.32151	0.88236	-0.00286	4.05290	0.16617	0.01002	1.16809
5.72082	-15.70661	2.41825	-0.29549	-1.32128	0.88439	-0.00285	4.01315	0.16830	0.00956	1.17419
5.85823	-15.82359	2.42691	-0.29052	-1.32114	0.88589	-0.00284	3.98084	0.17019	0.00908	1.18066
5.99520	-15.94694	2.43747	-0.28539	-1.32102	0.88745	-0.00284	3.94473	0.17224	0.00860	1.18719
6.13497	-16.08391	2.45157	-0.28034	-1.32092	0.88942	-0.00283	3.90552	0.17437	0.00815	1.19370
6.28141	-16.20626	2.46210	-0.27554	-1.32089	0.89108	-0.00282	3.87533	0.17612	0.00773	1.20041
6.42674	-16.31234	2.46907	-0.27068	-1.32091	0.89219	-0.00281	3.84960	0.17770	0.00730	1.20723
6.57895	-16.43858	2.48031	-0.26540	-1.32093	0.89368	-0.00280	3.81683	0.17959	0.00686	1.21432
6.73401	-16.57845	2.49516	-0.26025	-1.32097	0.89561	-0.00279	3.78204	0.18153	0.00646	1.22133
6.89180	-16.68986	2.50379	-0.25572	-1.32108	0.89696	-0.00278	3.75960	0.18291	0.00610	1.22835
7.05716	-16.78929	2.50890	-0.25086	-1.32121	0.89779	-0.00277	3.73975	0.18421	0.00571	1.23578
7.22022	-16.90425	2.51819	-0.24581	-1.32133	0.89895	-0.00276	3.71414	0.18575	0.00533	1.24284
7.39098	-17.04286	2.53274	-0.24050	-1.32148	0.90067	-0.00275	3.68330	0.18751	0.00498	1.24973
7.56430	-17.16048	2.54315	-0.23603	-1.32168	0.90213	-0.00274	3.66225	0.18879	0.00467	1.25614
7.73994	-17.23667	2.54406	-0.23203	-1.32188	0.90253	-0.00273	3.65236	0.18956	0.00436	1.26234
7.92393	-17.33145	2.54860	-0.22737	-1.32207	0.90315	-0.00272	3.63568	0.19066	0.00402	1.26832
8.11030	-17.44397	2.55734	-0.22239	-1.32227	0.90413	-0.00271	3.61406	0.19198	0.00369	1.27376
8.29876	-17.57944	2.57173	-0.21726	-1.32252	0.90572	-0.00270	3.58813	0.19348	0.00340	1.27856
8.49618	-17.67243	2.57678	-0.21350	-1.32279	0.90659	-0.00269	3.57695	0.19426	0.00315	1.28315
8.69565	-17.71796	2.57124	-0.21055	-1.32299	0.90636	-0.00268	3.57640	0.19450	0.00288	1.28779
8.90472	-17.79040	2.57115	-0.20674	-1.32319	0.90652	-0.00268	3.56740	0.19516	0.00258	1.29243
9.11577	-17.87198	2.57335	-0.20275	-1.32339	0.90685	-0.00267	3.55573	0.19593	0.00229	1.29696
9.32836	-17.98998	2.58370	-0.19776	-1.32365	0.90782	-0.00266	3.53454	0.19719	0.00201	1.30140
9.54198	-18.09117	2.59129	-0.19390	-1.32395	0.90876	-0.00265	3.52098	0.19804	0.00179	1.30574
9.76563	-18.10304	2.57967	-0.19305	-1.32412	0.90824	-0.00264	3.53160	0.19762	0.00159	1.31067
10.00000	-18.10998	2.56661	-0.19221	-1.32424	0.90754	-0.00264	3.54210	0.19718	0.00138	1.31641

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Low stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 305 - 610 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-1.78806	2.21501	-0.29322	-2.47678	0.94269	-0.00124	6.62140	0.28635	0.02694	0.25728
PGV	9.54112	1.81887	-0.18863	-3.87311	1.23269	0.00007	19.04870	0.23327	0.00224	0.41375
PGA	5.66475	1.55136	-0.08267	-3.49028	0.69763	-0.00041	10.60098	0.38775	-0.03031	0.79498
0.01000	5.65319	1.55837	-0.08199	-3.48423	0.67566	-0.00041	10.59016	0.39121	-0.01764	0.76127
0.01024	5.66185	1.55861	-0.08182	-3.48555	0.67507	-0.00040	10.59926	0.39127	-0.01767	0.76171
0.01048	5.67272	1.55887	-0.08165	-3.48726	0.67456	-0.00040	10.61210	0.39129	-0.01770	0.76213
0.01072	5.68583	1.55913	-0.08146	-3.48936	0.67411	-0.00040	10.62869	0.39128	-0.01774	0.76253
0.01097	5.70131	1.55940	-0.08127	-3.49187	0.67371	-0.00040	10.64919	0.39123	-0.01778	0.76291
0.01123	5.71932	1.55968	-0.08107	-3.49481	0.67337	-0.00039	10.67384	0.39114	-0.01783	0.76328
0.01150	5.74008	1.55999	-0.08085	-3.49823	0.67307	-0.00039	10.70299	0.39102	-0.01788	0.76364
0.01177	5.76382	1.56031	-0.08062	-3.50215	0.67280	-0.00039	10.73696	0.39085	-0.01794	0.76401
0.01205	5.79085	1.56066	-0.08037	-3.50664	0.67258	-0.00038	10.77629	0.39065	-0.01801	0.76439
0.01233	5.82159	1.56104	-0.08010	-3.51175	0.67239	-0.00038	10.82165	0.39039	-0.01809	0.76479
0.01262	5.85641	1.56145	-0.07980	-3.51757	0.67223	-0.00037	10.87367	0.39009	-0.01818	0.76521
0.01292	5.89582	1.56190	-0.07948	-3.52416	0.67212	-0.00037	10.93317	0.38974	-0.01827	0.76568
0.01322	5.94045	1.56240	-0.07914	-3.53164	0.67206	-0.00036	11.00117	0.38932	-0.01838	0.76620
0.01353	5.99101	1.56296	-0.07876	-3.54014	0.67204	-0.00035	11.07886	0.38884	-0.01850	0.76679
0.01385	6.04816	1.56358	-0.07834	-3.54974	0.67208	-0.00034	11.16735	0.38829	-0.01863	0.76749
0.01417	6.11236	1.56427	-0.07787	-3.56053	0.67213	-0.00033	11.26742	0.38766	-0.01879	0.76831
0.01451	6.18478	1.56506	-0.07735	-3.57271	0.67217	-0.00032	11.38091	0.38696	-0.01896	0.76928
0.01485	6.26666	1.56593	-0.07678	-3.58648	0.67219	-0.00031	11.50997	0.38616	-0.01916	0.77044
0.01520	6.35813	1.56691	-0.07613	-3.60183	0.67222	-0.00029	11.65504	0.38528	-0.01938	0.77180
0.01556	6.45815	1.56799	-0.07542	-3.61857	0.67230	-0.00028	11.81461	0.38434	-0.01962	0.77337
0.01592	6.56564	1.56916	-0.07464	-3.63647	0.67240	-0.00026	11.98712	0.38335	-0.01988	0.77520
0.01630	6.68227	1.57042	-0.07377	-3.65577	0.67254	-0.00024	12.17571	0.38229	-0.02019	0.77735
0.01668	6.80886	1.57179	-0.07281	-3.67662	0.67264	-0.00023	12.38164	0.38119	-0.02053	0.77984
0.01707	6.94380	1.57328	-0.07175	-3.69874	0.67258	-0.00021	12.60126	0.38006	-0.02091	0.78259
0.01748	7.08313	1.57487	-0.07057	-3.72139	0.67220	-0.00019	12.82803	0.37898	-0.02131	0.78556
0.01789	7.22652	1.57653	-0.06930	-3.74443	0.67154	-0.00017	13.06337	0.37794	-0.02176	0.78885
0.01831	7.37753	1.57836	-0.06795	-3.76854	0.67078	-0.00016	13.31380	0.37689	-0.02224	0.79239
0.01874	7.53387	1.58045	-0.06654	-3.79346	0.66985	-0.00014	13.57290	0.37590	-0.02270	0.79585
0.01918	7.68929	1.58269	-0.06507	-3.81802	0.66843	-0.00012	13.82843	0.37505	-0.02313	0.79914
0.01963	7.84589	1.58503	-0.06353	-3.84256	0.66637	-0.00011	14.08400	0.37431	-0.02356	0.80244
0.02009	8.00485	1.58756	-0.06192	-3.86741	0.66376	-0.00009	14.34080	0.37367	-0.02402	0.80600
0.02057	8.15744	1.59019	-0.06024	-3.89101	0.66070	-0.00007	14.58522	0.37320	-0.02451	0.80981
0.02105	8.29093	1.59269	-0.05852	-3.91095	0.65688	-0.00006	14.79657	0.37303	-0.02500	0.81354
0.02154	8.39955	1.59494	-0.05681	-3.92615	0.65219	-0.00005	14.96298	0.37321	-0.02550	0.81739
0.02205	8.48497	1.59717	-0.05513	-3.93719	0.64701	-0.00005	15.08324	0.37375	-0.02601	0.82131
0.02257	8.54682	1.59950	-0.05343	-3.94410	0.64104	-0.00005	15.15538	0.37469	-0.02646	0.82486
0.02310	8.58325	1.60192	-0.05167	-3.94654	0.63392	-0.00006	15.17566	0.37605	-0.02685	0.82809
0.02364	8.60377	1.60460	-0.04987	-3.94646	0.62627	-0.00006	15.15978	0.37771	-0.02728	0.83153
0.02420	8.60962	1.60759	-0.04807	-3.94427	0.61902	-0.00007	15.11047	0.37960	-0.02768	0.83471
0.02477	8.58175	1.61056	-0.04623	-3.93636	0.61238	-0.00010	14.99757	0.38192	-0.02794	0.83690
0.02535	8.50554	1.61311	-0.04432	-3.91978	0.60578	-0.00013	14.79640	0.38484	-0.02812	0.83852
0.02595	8.38945	1.61538	-0.04242	-3.89617	0.59919	-0.00017	14.52072	0.38832	-0.02822	0.83985
0.02656	8.26601	1.61782	-0.04064	-3.87159	0.59278	-0.00020	14.23090	0.39194	-0.02825	0.84067
0.02719	8.15171	1.62041	-0.03901	-3.84881	0.58656	-0.00024	13.96098	0.39546	-0.02822	0.84107
0.02783	8.02407	1.62326	-0.03740	-3.82382	0.58015	-0.00028	13.66965	0.39925	-0.02810	0.84085
0.02848	7.87160	1.62635	-0.03575	-3.79460	0.57240	-0.00032	13.33635	0.40352	-0.02785	0.83966
0.02915	7.69670	1.62908	-0.03415	-3.76135	0.56206	-0.00036	12.96559	0.40822	-0.02754	0.83824
0.02984	7.50406	1.63122	-0.03270	-3.72500	0.55027	-0.00040	12.56390	0.41324	-0.02729	0.83745
0.03054	7.29510	1.63326	-0.03122	-3.68604	0.53931	-0.00044	12.13892	0.41854	-0.02714	0.83739
0.03126	7.08963	1.63594	-0.02949	-3.64806	0.53012	-0.00048	11.72881	0.42388	-0.02691	0.83684
0.03199	6.89856	1.63935	-0.02758	-3.61279	0.52223	-0.00053	11.34967	0.42916	-0.02658	0.83568
0.03275	6.71696	1.64316	-0.02564	-3.57942	0.51461	-0.00058	10.99187	0.43441	-0.02624	0.83457
0.03352	6.51116	1.64675	-0.02369	-3.54170	0.50491	-0.00063	10.60060	0.44019	-0.02597	0.83386
0.03430	6.26170	1.64959	-0.02175	-3.49572	0.49141	-0.00068	10.14512	0.44693	-0.02573	0.83342
0.03511	5.99838	1.65211	-0.01994	-3.44709	0.47582	-0.00072	9.67571	0.45412	-0.02554	0.83327
0.03594	5.73055	1.65450	-0.01825	-3.39767	0.46058	-0.00077	9.21183	0.46148	-0.02541	0.83346
0.03678	5.46985	1.65654	-0.01675	-3.34961	0.44762	-0.00082	8.77069	0.46870	-0.02539	0.83446
0.03765	5.22040	1.65772	-0.01538	-3.30364	0.43741	-0.00086	8.35805	0.47552	-0.02534	0.83542
0.03854	4.98538	1.65899	-0.01398	-3.26095	0.42948	-0.00091	7.97534	0.48203	-0.02513	0.83519
0.03944	4.75106	1.66101	-0.01252	-3.21907	0.42188	-0.00096	7.60040	0.48876	-0.02487	0.83450
0.04037	4.50077	1.66296	-0.01110	-3.17419	0.41270	-0.00101	7.21300	0.49609	-0.02459	0.83360
0.04132	4.23036	1.66400	-0.00977	-3.12502	0.40085	-0.00105	6.80919	0.50406	-0.02425	0.83230
0.04229	3.96459	1.66510	-0.00848	-3.07680	0.38834	-0.00110	6.42154	0.51219	-0.02394	0.83112
0.04329	3.71372	1.66749	-0.00705	-3.03206	0.37698	-0.00114	6.06414	0.52034	-0.02363	0.82978
0.04431	3.47158	1.67028	-0.00545	-2.98911	0.36695	-0.00118	5.72871	0.52851	-0.02327	0.82805
0.04535	3.26732	1.67199	-0.00411	-2.95249	0.35954	-0.00122	5.44681	0.53562	-0.02279	0.82554

0.04642	3.12155	1.67320	-0.00319	-2.92640	0.35618	-0.00124	5.24035	0.54100	-0.02219	0.82223
0.04751	3.00469	1.67497	-0.00237	-2.90585	0.35541	-0.00127	5.07595	0.54550	-0.02146	0.81794
0.04863	2.90400	1.67728	-0.00179	-2.88855	0.35278	-0.00129	4.93010	0.54981	-0.02057	0.81251
0.04977	2.79671	1.67888	-0.00154	-2.86987	0.34674	-0.00129	4.77345	0.55449	-0.01975	0.80757
0.05094	2.65487	1.67872	-0.00148	-2.84388	0.33850	-0.00130	4.58157	0.56008	-0.01927	0.80512
0.05214	2.50393	1.67890	-0.00140	-2.81609	0.33087	-0.00132	4.38780	0.56603	-0.01912	0.80492
0.05337	2.37205	1.68053	-0.00118	-2.79251	0.32690	-0.00134	4.22346	0.57144	-0.01914	0.80542
0.05462	2.26402	1.68175	-0.00102	-2.77293	0.32586	-0.00137	4.09215	0.57583	-0.01919	0.80569
0.05591	2.17972	1.68242	-0.00115	-2.75693	0.32432	-0.00139	3.99142	0.57931	-0.01903	0.80447
0.05722	2.09565	1.68275	-0.00148	-2.74037	0.32038	-0.00140	3.89407	0.58283	-0.01844	0.80066
0.05857	1.97300	1.68150	-0.00178	-2.71562	0.31325	-0.00142	3.76021	0.58754	-0.01763	0.79563
0.05995	1.80848	1.67795	-0.00212	-2.68157	0.30162	-0.00144	3.58768	0.59364	-0.01693	0.79151
0.06136	1.64760	1.67333	-0.00274	-2.64762	0.28922	-0.00145	3.42197	0.59960	-0.01638	0.78842
0.06280	1.52359	1.66896	-0.00373	-2.62088	0.28100	-0.00146	3.29506	0.60414	-0.01596	0.78614
0.06428	1.39472	1.66462	-0.00465	-2.59342	0.27607	-0.00148	3.16985	0.60863	-0.01578	0.78535
0.06579	1.22485	1.66104	-0.00523	-2.55904	0.27065	-0.00151	3.01461	0.61469	-0.01577	0.78563
0.06734	1.03401	1.65860	-0.00560	-2.52189	0.26460	-0.00155	2.84560	0.62183	-0.01580	0.78632
0.06893	0.86971	1.65630	-0.00620	-2.49018	0.26038	-0.00159	2.70161	0.62807	-0.01569	0.78631
0.07055	0.74368	1.65347	-0.00709	-2.46544	0.25823	-0.00161	2.59046	0.63280	-0.01534	0.78474
0.07221	0.63674	1.65122	-0.00790	-2.44493	0.25736	-0.00163	2.49345	0.63707	-0.01489	0.78256
0.07391	0.52864	1.64920	-0.00873	-2.42434	0.25423	-0.00163	2.39114	0.64200	-0.01461	0.78169
0.07565	0.40620	1.64535	-0.01002	-2.39938	0.24471	-0.00163	2.27304	0.64812	-0.01452	0.78188
0.07743	0.27964	1.63922	-0.01192	-2.37183	0.23228	-0.00161	2.15234	0.65450	-0.01441	0.78182
0.07925	0.15997	1.63188	-0.01416	-2.34508	0.22159	-0.00160	2.04243	0.66023	-0.01426	0.78131
0.08111	0.05014	1.62540	-0.01627	-2.32123	0.21332	-0.00158	1.94821	0.66518	-0.01410	0.78077
0.08302	-0.06007	1.62096	-0.01790	-2.29870	0.20685	-0.00158	1.86126	0.67015	-0.01395	0.78048
0.08498	-0.16591	1.61718	-0.01929	-2.27689	0.20320	-0.00159	1.78370	0.67479	-0.01382	0.78051
0.08697	-0.24402	1.61331	-0.02085	-2.25925	0.20449	-0.00161	1.73144	0.67769	-0.01363	0.78043
0.08902	-0.30835	1.61094	-0.02238	-2.24434	0.20907	-0.00164	1.69225	0.67998	-0.01328	0.77942
0.09112	-0.38819	1.61013	-0.02374	-2.22732	0.21415	-0.00169	1.64346	0.68340	-0.01279	0.77771
0.09326	-0.49180	1.60875	-0.02511	-2.20583	0.21654	-0.00173	1.57763	0.68827	-0.01228	0.77604
0.09545	-0.59543	1.60621	-0.02676	-2.18448	0.21517	-0.00175	1.51005	0.69324	-0.01171	0.77399
0.09770	-0.66804	1.60405	-0.02883	-2.17012	0.21422	-0.00176	1.46346	0.69636	-0.01117	0.77212
0.10000	-0.72485	1.60235	-0.03107	-2.15909	0.21488	-0.00178	1.43054	0.69825	-0.01088	0.77205
0.10235	-0.78467	1.59940	-0.03339	-2.14602	0.21531	-0.00180	1.39912	0.69992	-0.01078	0.77333
0.10476	-0.84268	1.59447	-0.03594	-2.13165	0.21540	-0.00182	1.36917	0.70123	-0.01077	0.77514
0.10723	-0.92121	1.58852	-0.03835	-2.11293	0.21499	-0.00184	1.32593	0.70371	-0.01087	0.77769
0.10975	-1.00414	1.58288	-0.04074	-2.09366	0.21488	-0.00186	1.27975	0.70661	-0.01100	0.78050
0.11233	-1.06713	1.57669	-0.04357	-2.07693	0.21528	-0.00188	1.24700	0.70820	-0.01112	0.78311
0.11498	-1.11871	1.57057	-0.04656	-2.06153	0.21695	-0.00190	1.22505	0.70880	-0.01116	0.78504
0.11768	-1.15226	1.56527	-0.04977	-2.05027	0.21972	-0.00193	1.21454	0.70828	-0.01115	0.78646
0.12045	-1.16540	1.56085	-0.05307	-2.04424	0.22476	-0.00194	1.21484	0.70659	-0.01129	0.78834
0.12328	-1.17372	1.55793	-0.05599	-2.04089	0.23397	-0.00196	1.21844	0.70458	-0.01146	0.79015
0.12619	-1.18079	1.55550	-0.05884	-2.03836	0.24370	-0.00198	1.22257	0.70256	-0.01160	0.79179
0.12916	-1.18380	1.55200	-0.06204	-2.03574	0.24886	-0.00198	1.22745	0.70046	-0.01173	0.79347
0.13219	-1.18959	1.54774	-0.06543	-2.03214	0.24928	-0.00197	1.22866	0.69876	-0.01185	0.79533
0.13531	-1.21774	1.54360	-0.06863	-2.02496	0.24873	-0.00196	1.21481	0.69859	-0.01206	0.79773
0.13849	-1.26683	1.53893	-0.07172	-2.01391	0.25144	-0.00197	1.18843	0.69941	-0.01223	0.79969
0.14175	-1.32056	1.53314	-0.07499	-2.00126	0.25653	-0.00198	1.15917	0.70021	-0.01206	0.79932
0.14508	-1.36268	1.52749	-0.07843	-1.99110	0.26161	-0.00199	1.13552	0.70041	-0.01137	0.79528
0.14850	-1.40837	1.52260	-0.08177	-1.98094	0.26501	-0.00199	1.10992	0.70107	-0.01034	0.78850
0.15199	-1.48757	1.51762	-0.08469	-1.96425	0.26519	-0.00200	1.06762	0.70390	-0.00930	0.78095
0.15557	-1.59861	1.51163	-0.08723	-1.94053	0.26064	-0.00201	1.01113	0.70868	-0.00852	0.77460
0.15923	-1.69595	1.50499	-0.09021	-1.91863	0.25340	-0.00201	0.96490	0.71238	-0.00816	0.77074
0.16298	-1.74082	1.49981	-0.09403	-1.90799	0.24976	-0.00201	0.94792	0.71234	-0.00803	0.76866
0.16681	-1.73258	1.49654	-0.09824	-1.90904	0.25076	-0.00199	0.95917	0.70869	-0.00788	0.76710
0.17074	-1.69471	1.49454	-0.10242	-1.91608	0.25016	-0.00196	0.98516	0.70367	-0.00761	0.76526
0.17475	-1.66973	1.49317	-0.10639	-1.92041	0.24439	-0.00192	1.00361	0.70024	-0.00716	0.76247
0.17887	-1.68378	1.49125	-0.11019	-1.91661	0.23681	-0.00189	1.00325	0.69915	-0.00653	0.75866
0.18307	-1.72060	1.48911	-0.11401	-1.90853	0.23247	-0.00188	0.99552	0.69869	-0.00569	0.75373
0.18738	-1.75956	1.48749	-0.11773	-1.90096	0.23322	-0.00188	0.99056	0.69771	-0.00466	0.74797
0.19179	-1.81204	1.48504	-0.12111	-1.89029	0.23477	-0.00189	0.97941	0.69741	-0.00351	0.74189
0.19631	-1.88757	1.48041	-0.12433	-1.87330	0.23335	-0.00190	0.95522	0.69861	-0.00247	0.73685
0.20092	-1.96545	1.47540	-0.12772	-1.85574	0.23395	-0.00192	0.93015	0.69976	-0.00165	0.73367
0.20565	-2.02735	1.47221	-0.13119	-1.84295	0.24061	-0.00195	0.91437	0.69970	-0.00094	0.73166
0.21049	-2.08674	1.46985	-0.13469	-1.83120	0.24666	-0.00198	0.89842	0.69981	-0.00027	0.72978
0.21544	-2.15421	1.46677	-0.13850	-1.81701	0.24640	-0.00201	0.87488	0.70111	0.00038	0.72766
0.22051	-2.23825	1.46271	-0.14253	-1.79842	0.24088	-0.00202	0.84117	0.70404	0.00075	0.72717
0.22570	-2.33735	1.45875	-0.14642	-1.77685	0.23468	-0.00203	0.80165	0.70815	0.00080	0.72888
0.23101	-2.42480	1.45630	-0.15006	-1.75932	0.23234	-0.00205	0.77036	0.71127	0.00078	0.73086
0.23645	-2.47677	1.45544	-0.15360	-1.75078	0.23505	-0.00206	0.75737	0.71156	0.00068	0.73305
0.24201	-2.49448	1.45501	-0.15727	-1.74959	0.24103	-0.00206	0.76165	0.70895	0.00035	0.73687
0.24771	-2.49706	1.45524	-0.16105	-1.75203	0.25020	-0.00206	0.77565	0.70474	0.00007	0.74099
0.25354	-2.49589	1.45645	-0.16490	-1.75607	0.26271	-0.00207	0.79438	0.69982	0.00022	0.74277
0.25950	-2.48786	1.45764	-0.16886	-1.76114	0.27458	-0.00207	0.81761	0.69425	0.00055	0.74316
0.26561	-2.49093	1.45846	-0.17259	-1.76301	0.28096	-0.00208	0.83535	0.68984	0.00057	0.74506
0.27186	-2.54538	1.45810	-0.17557	-1.75316	0.27957	-0.00209	0.82667	0.68963	0.00020	0.74909
0.27826	-2.65809	1.45549	-0.17806	-1.73007	0.27284	-0.00212	0.78865	0.69369	-0.00015	0.75284
0.28480	-2.77495	1.45185	-0.18099	-1.70607	0.26581	-0.00214	0.74948	0.69777	-0.00032	0.75557
0.29150	-2.84248	1.44961	-0.18497	-1.69378	0.26407	-0.00214	0.73455	0.69787	-0.00047	0.75842
0.29836	-2.87011	1.44958	-0.18965	-1.69161	0.26963	-0.00214	0.73876	0.69492	-0.00044	0.76032

0.30539	-2.90714	1.45146	-0.19402	-1.68952	0.27969	-0.00215	0.73901	0.69290	0.00012	0.75921
0.31257	-2.99015	1.45428	-0.19738	-1.67972	0.28909	-0.00217	0.71784	0.69469	0.00111	0.75565
0.31993	-3.11497	1.45710	-0.19988	-1.66237	0.29389	-0.00220	0.67775	0.69997	0.00207	0.75202
0.32745	-3.25287	1.45921	-0.20232	-1.64223	0.29390	-0.00222	0.63302	0.70636	0.00265	0.74998
0.33517	-3.37031	1.45981	-0.20549	-1.62466	0.29310	-0.00223	0.59951	0.71056	0.00273	0.75006
0.34304	-3.45012	1.45815	-0.20951	-1.61177	0.29438	-0.00225	0.58395	0.71068	0.00233	0.75260
0.35112	-3.49548	1.45451	-0.21408	-1.60320	0.29733	-0.00225	0.58374	0.70713	0.00164	0.75719
0.35938	-3.52064	1.45069	-0.21880	-1.59810	0.29922	-0.00224	0.59180	0.70193	0.00109	0.76109
0.36784	-3.53753	1.44920	-0.22352	-1.59690	0.29918	-0.00221	0.60331	0.69662	0.00115	0.76110
0.37649	-3.54467	1.45144	-0.22843	-1.60151	0.29961	-0.00218	0.61988	0.69103	0.00170	0.75765
0.38536	-3.54622	1.45627	-0.23377	-1.61028	0.30306	-0.00215	0.64063	0.68493	0.00228	0.75386
0.39442	-3.55119	1.46153	-0.23950	-1.61959	0.31044	-0.00214	0.66166	0.67854	0.00271	0.75112
0.40370	-3.56332	1.46600	-0.24537	-1.62758	0.32189	-0.00214	0.68099	0.67202	0.00300	0.74935
0.41321	-3.57739	1.46952	-0.25122	-1.63466	0.33625	-0.00215	0.70155	0.66500	0.00313	0.74859
0.42292	-3.58452	1.47202	-0.25706	-1.64179	0.35170	-0.00216	0.72891	0.65679	0.00299	0.74972
0.43288	-3.59038	1.47338	-0.26281	-1.64732	0.36637	-0.00218	0.76084	0.64797	0.00259	0.75307
0.44307	-3.60385	1.47391	-0.26834	-1.64981	0.37929	-0.00220	0.79106	0.63974	0.00211	0.75780
0.45349	-3.62451	1.47398	-0.27380	-1.64978	0.39118	-0.00222	0.81734	0.63247	0.00173	0.76279
0.46417	-3.65755	1.47339	-0.27950	-1.64598	0.39991	-0.00224	0.83438	0.62684	0.00162	0.76674
0.47508	-3.71720	1.47216	-0.28536	-1.63569	0.40196	-0.00225	0.83249	0.62419	0.00174	0.76944
0.48626	-3.81764	1.47148	-0.29081	-1.61747	0.39816	-0.00226	0.80468	0.62574	0.00193	0.77165
0.49771	-3.96588	1.47292	-0.29529	-1.59178	0.39146	-0.00228	0.75115	0.63201	0.00230	0.77227
0.50942	-4.15073	1.47688	-0.29896	-1.56167	0.38233	-0.00232	0.68275	0.64188	0.00310	0.76994
0.52140	-4.33082	1.48276	-0.30259	-1.53505	0.37272	-0.00236	0.62343	0.65122	0.00420	0.76560
0.53367	-4.46216	1.48991	-0.30675	-1.52022	0.36924	-0.00239	0.59459	0.65495	0.00530	0.76151
0.54624	-4.52574	1.49764	-0.31154	-1.52004	0.37607	-0.00241	0.60389	0.65066	0.00583	0.76145
0.55910	-4.53132	1.50542	-0.31686	-1.53174	0.39129	-0.00243	0.64652	0.63975	0.00557	0.76703
0.57225	-4.51404	1.51233	-0.32241	-1.54728	0.40765	-0.00244	0.70530	0.62639	0.00493	0.77565
0.58569	-4.50914	1.51778	-0.32780	-1.55907	0.41944	-0.00243	0.76034	0.61425	0.00440	0.78365
0.59948	-4.52586	1.52235	-0.33286	-1.56611	0.42799	-0.00241	0.80423	0.60423	0.00425	0.78893
0.61357	-4.55413	1.52685	-0.33765	-1.57136	0.43803	-0.00240	0.84112	0.59545	0.00450	0.79117
0.62802	-4.58629	1.53175	-0.34245	-1.57666	0.45154	-0.00239	0.87568	0.58716	0.00506	0.79120
0.64280	-4.62508	1.53686	-0.34743	-1.58086	0.46525	-0.00239	0.90649	0.57954	0.00579	0.78967
0.65794	-4.67110	1.54202	-0.35254	-1.58324	0.47669	-0.00240	0.93459	0.57245	0.00638	0.78878
0.67340	-4.72667	1.54732	-0.35756	-1.58301	0.48503	-0.00240	0.95939	0.56609	0.00657	0.79077
0.68927	-4.79948	1.55263	-0.36241	-1.57859	0.48991	-0.00242	0.97510	0.56107	0.00646	0.79500
0.70547	-4.89636	1.55742	-0.36711	-1.56835	0.49035	-0.00243	0.97440	0.55800	0.00631	0.79963
0.72207	-5.00676	1.56173	-0.37179	-1.55479	0.48822	-0.00245	0.96401	0.55594	0.00619	0.80388
0.73910	-5.11091	1.56621	-0.37654	-1.54268	0.48747	-0.00246	0.95850	0.55326	0.00606	0.80780
0.75649	-5.20167	1.57164	-0.38122	-1.53426	0.49062	-0.00248	0.96328	0.54956	0.00595	0.81114
0.77429	-5.28973	1.57843	-0.38569	-1.52775	0.49756	-0.00252	0.97046	0.54602	0.00598	0.81292
0.79246	-5.38357	1.58634	-0.38991	-1.52130	0.50744	-0.00256	0.97290	0.54344	0.00618	0.81267
0.81116	-5.48466	1.59470	-0.39406	-1.51418	0.51735	-0.00261	0.96953	0.54168	0.00639	0.81144
0.83022	-5.59040	1.60279	-0.39814	-1.50638	0.52395	-0.00264	0.96157	0.54039	0.00642	0.81074
0.84976	-5.69814	1.61079	-0.40201	-1.49891	0.52798	-0.00265	0.95271	0.53901	0.00624	0.81105
0.86972	-5.79631	1.61916	-0.40568	-1.49473	0.53374	-0.00266	0.95319	0.53627	0.00599	0.81183
0.89023	-5.87154	1.62833	-0.40935	-1.49706	0.54546	-0.00267	0.97544	0.53068	0.00581	0.81238
0.91116	-5.92241	1.63812	-0.41308	-1.50571	0.56326	-0.00269	1.02118	0.52225	0.00582	0.81229
0.93257	-5.95841	1.64802	-0.41684	-1.51791	0.58435	-0.00271	1.08389	0.51205	0.00600	0.81182
0.95456	-5.98865	1.65767	-0.42055	-1.53117	0.60584	-0.00273	1.15643	0.50111	0.00625	0.81171
0.97704	-6.02091	1.66710	-0.42418	-1.54376	0.62589	-0.00274	1.23063	0.49045	0.00664	0.81186
1.00000	-6.06722	1.67630	-0.42776	-1.55306	0.64311	-0.00275	1.29458	0.48107	0.00735	0.81088
1.02354	-6.13597	1.68506	-0.43139	-1.55700	0.65636	-0.00277	1.34005	0.47343	0.00851	0.80770
1.04767	-6.22329	1.69316	-0.43510	-1.55597	0.66601	-0.00278	1.36987	0.46705	0.00990	0.80334
1.07227	-6.32019	1.70058	-0.43875	-1.55182	0.67309	-0.00280	1.39117	0.46132	0.01111	0.80021
1.09745	-6.42210	1.70756	-0.44231	-1.54595	0.67778	-0.00281	1.40719	0.45601	0.01189	0.79982
1.12334	-6.53050	1.71443	-0.44576	-1.53862	0.67949	-0.00282	1.41616	0.45127	0.01224	0.80237
1.14982	-6.64973	1.72130	-0.44916	-1.52926	0.67772	-0.00283	1.41447	0.44730	0.01227	0.80682
1.17675	-6.78056	1.72836	-0.45261	-1.51808	0.67352	-0.00283	1.40407	0.44380	0.01225	0.81145
1.20453	-6.92013	1.73587	-0.45611	-1.50643	0.66943	-0.00284	1.39379	0.43981	0.01225	0.81576
1.23289	-7.06610	1.74361	-0.45944	-1.49455	0.66659	-0.00285	1.38775	0.43493	0.01215	0.82059
1.26183	-7.22235	1.75125	-0.46252	-1.48106	0.66437	-0.00287	1.38283	0.42932	0.01188	0.82641
1.29149	-7.39430	1.75867	-0.46534	-1.46451	0.66113	-0.00290	1.37328	0.42342	0.01150	0.83282
1.32188	-7.58163	1.76607	-0.46786	-1.44507	0.65595	-0.00293	1.35710	0.41757	0.01115	0.83895
1.35300	-7.78067	1.77385	-0.47001	-1.42393	0.64914	-0.00297	1.33558	0.41187	0.01094	0.84406
1.38485	-7.98642	1.78229	-0.47170	-1.40252	0.64250	-0.00301	1.31211	0.40623	0.01091	0.84787
1.41743	-8.19185	1.79150	-0.47288	-1.38249	0.63857	-0.00305	1.29396	0.40015	0.01110	0.85031
1.45075	-8.38857	1.80151	-0.47352	-1.36562	0.63932	-0.00310	1.29095	0.39287	0.01151	0.85114
1.48500	-8.57215	1.81226	-0.47370	-1.35278	0.64502	-0.00315	1.30981	0.38387	0.01213	0.85056
1.51999	-8.74079	1.82341	-0.47350	-1.34365	0.65407	-0.00320	1.35060	0.37336	0.01278	0.84972
1.55569	-8.89618	1.83473	-0.47311	-1.33729	0.66419	-0.00324	1.40987	0.36187	0.01335	0.84969
1.59236	-9.04197	1.84614	-0.47270	-1.33266	0.67383	-0.00327	1.48323	0.34989	0.01382	0.85069
1.62973	-9.17985	1.85756	-0.47234	-1.32906	0.68268	-0.00330	1.56466	0.33810	0.01420	0.85280
1.66806	-9.31300	1.86916	-0.47203	-1.32598	0.69113	-0.00332	1.64896	0.32696	0.01445	0.85637
1.70736	-9.44236	1.88110	-0.47175	-1.32327	0.69974	-0.00334	1.73177	0.31686	0.01455	0.86171
1.74764	-9.56954	1.89347	-0.47149	-1.32066	0.70848	-0.00336	1.80786	0.30814	0.01452	0.86872
1.78859	-9.69373	1.90623	-0.47127	-1.31820	0.71706	-0.00338	1.87370	0.30102	0.01435	0.87721
1.83083	-9.81528	1.91962	-0.47107	-1.31632	0.72560	-0.00340	1.93082	0.29529	0.01406	0.88728
1.87371	-9.92965	1.93340	-0.47093	-1.31567	0.73425	-0.00341	1.98169	0.29081	0.01363	0.89861
1.91791	-10.03617	1.94773	-0.47091	-1.31684	0.74351	-0.00341	2.03103	0.28725	0.01312	0.91096
1.96309	-10.13275	1.96247	-0.47105	-1.32012	0.75350	-0.00341	2.08075	0.28445	0.01259	0.92362

2.00924	-10.21897	1.97755	-0.47140	-1.32562	0.76438	-0.00341	2.13290	0.28221	0.01210	0.93592
2.05634	-10.29565	1.99290	-0.47193	-1.33318	0.77601	-0.00340	2.18792	0.28039	0.01170	0.94729
2.10482	-10.36406	2.00854	-0.47264	-1.34270	0.78834	-0.00338	2.24716	0.27881	0.01140	0.95748
2.15424	-10.42322	2.02421	-0.47348	-1.35410	0.80131	-0.00336	2.31304	0.27723	0.01118	0.96631
2.20507	-10.47406	2.03988	-0.47445	-1.36727	0.81479	-0.00333	2.38816	0.27542	0.01101	0.97389
2.25683	-10.51798	2.05523	-0.47553	-1.38154	0.82806	-0.00330	2.47154	0.27327	0.01086	0.98030
2.31000	-10.55731	2.07028	-0.47667	-1.39655	0.84075	-0.00326	2.56427	0.27066	0.01074	0.98563
2.36463	-10.59314	2.08489	-0.47787	-1.41198	0.85265	-0.00321	2.66845	0.26740	0.01067	0.98987
2.42014	-10.62642	2.09886	-0.47909	-1.42743	0.86365	-0.00316	2.78449	0.26344	0.01068	0.99295
2.47709	-10.66112	2.11236	-0.48027	-1.44239	0.87337	-0.00311	2.91014	0.25887	0.01080	0.99484
2.53550	-10.70223	2.12544	-0.48134	-1.45594	0.88134	-0.00306	3.03745	0.25397	0.01105	0.99572
2.59471	-10.75500	2.13800	-0.48219	-1.46685	0.88708	-0.00300	3.15366	0.24914	0.01143	0.99585
2.65604	-10.82631	2.15037	-0.48272	-1.47435	0.89048	-0.00295	3.24953	0.24457	0.01193	0.99550
2.71887	-10.91842	2.16244	-0.48287	-1.47772	0.89144	-0.00291	3.31560	0.24052	0.01250	0.99515
2.78242	-11.03178	2.17416	-0.48259	-1.47669	0.88978	-0.00287	3.34661	0.23717	0.01314	0.99504
2.84819	-11.16758	2.18584	-0.48181	-1.47162	0.88597	-0.00284	3.34713	0.23435	0.01386	0.99535
2.91545	-11.32000	2.19730	-0.48055	-1.46331	0.88060	-0.00282	3.32513	0.23186	0.01462	0.99637
2.98329	-11.48457	2.20842	-0.47875	-1.45258	0.87427	-0.00281	3.28819	0.22963	0.01541	0.99798
3.05344	-11.65909	2.21947	-0.47648	-1.44026	0.86720	-0.00280	3.24532	0.22739	0.01623	1.00035
3.12598	-11.84223	2.23050	-0.47368	-1.42691	0.85999	-0.00280	3.20159	0.22507	0.01706	1.00324
3.19898	-12.02516	2.24119	-0.47054	-1.41354	0.85310	-0.00281	3.16024	0.22278	0.01785	1.00663
3.27439	-12.21177	2.25193	-0.46692	-1.40038	0.84681	-0.00281	3.12471	0.22033	0.01863	1.01006
3.35121	-12.39409	2.26250	-0.46299	-1.38853	0.84176	-0.00282	3.10270	0.21759	0.01936	1.01344
3.43053	-12.57502	2.27314	-0.45860	-1.37807	0.83823	-0.00283	3.09598	0.21448	0.02008	1.01658
3.51124	-12.74866	2.28367	-0.45396	-1.36955	0.83641	-0.00285	3.10438	0.21118	0.02071	1.01994
3.59324	-12.91651	2.29419	-0.44891	-1.36304	0.83684	-0.00286	3.12914	0.20768	0.02130	1.02331
3.67782	-13.07908	2.30484	-0.44364	-1.35825	0.83953	-0.00287	3.16545	0.20413	0.02178	1.02766
3.76506	-13.24101	2.31550	-0.43788	-1.35467	0.84481	-0.00289	3.20752	0.20077	0.02220	1.03269
3.85356	-13.39918	2.32622	-0.43209	-1.35171	0.85136	-0.00291	3.24721	0.19778	0.02248	1.03903
3.94477	-13.56068	2.33661	-0.42594	-1.34852	0.85912	-0.00294	3.27675	0.19541	0.02269	1.04572
4.03714	-13.72243	2.34719	-0.41977	-1.34510	0.86685	-0.00296	3.29466	0.19366	0.02277	1.05307
4.13223	-13.88530	2.35735	-0.41350	-1.34119	0.87418	-0.00299	3.30130	0.19246	0.02274	1.06072
4.23012	-14.05095	2.36744	-0.40697	-1.33692	0.88137	-0.00302	3.29944	0.19172	0.02260	1.06830
4.32900	-14.21182	2.37762	-0.40070	-1.33283	0.88792	-0.00304	3.29366	0.19127	0.02232	1.07598
4.43066	-14.37034	2.38683	-0.39426	-1.32874	0.89408	-0.00307	3.28418	0.19118	0.02192	1.08313
4.53515	-14.52875	2.39673	-0.38782	-1.32494	0.89975	-0.00309	3.27294	0.19132	0.02138	1.09041
4.64253	-14.68122	2.40633	-0.38156	-1.32176	0.90492	-0.00311	3.26363	0.19157	0.02074	1.09762
4.75059	-14.82596	2.41486	-0.37523	-1.31919	0.90971	-0.00312	3.25699	0.19198	0.02003	1.10433
4.86145	-14.97049	2.42474	-0.36901	-1.31729	0.91423	-0.00313	3.25131	0.19251	0.01922	1.11128
4.97760	-15.11084	2.43399	-0.36286	-1.31584	0.91840	-0.00313	3.24766	0.19309	0.01840	1.11813
5.09424	-15.24386	2.44219	-0.35665	-1.31482	0.92213	-0.00314	3.24550	0.19378	0.01758	1.12462
5.21376	-15.38012	2.45235	-0.35054	-1.31425	0.92570	-0.00314	3.24213	0.19459	0.01672	1.13131
5.33618	-15.50986	2.46159	-0.34473	-1.31385	0.92885	-0.00314	3.23888	0.19541	0.01592	1.13778
5.46150	-15.63328	2.46914	-0.33881	-1.31353	0.93152	-0.00314	3.23511	0.19633	0.01513	1.14414
5.58971	-15.76367	2.47909	-0.33284	-1.31342	0.93404	-0.00313	3.22765	0.19745	0.01431	1.15080
5.72082	-15.89273	2.48947	-0.32721	-1.31340	0.93639	-0.00313	3.21915	0.19856	0.01355	1.15751
5.85823	-16.01111	2.49650	-0.32155	-1.31328	0.93833	-0.00312	3.21179	0.19965	0.01283	1.16438
5.99520	-16.13219	2.50498	-0.31582	-1.31333	0.94015	-0.00311	3.20151	0.20090	0.01210	1.17148
6.13497	-16.26241	2.51643	-0.31015	-1.31355	0.94211	-0.00311	3.18849	0.20225	0.01138	1.17878
6.28141	-16.38161	2.52509	-0.30484	-1.31375	0.94386	-0.00310	3.17876	0.20340	0.01074	1.18611
6.42674	-16.48662	2.53074	-0.29964	-1.31397	0.94524	-0.00309	3.17078	0.20449	0.01014	1.19338
6.57895	-16.60722	2.53992	-0.29400	-1.31436	0.94681	-0.00308	3.15862	0.20583	0.00950	1.20114
6.73401	-16.73877	2.55232	-0.28840	-1.31485	0.94859	-0.00307	3.14400	0.20723	0.00889	1.20895
6.89180	-16.84672	2.55956	-0.28357	-1.31527	0.95000	-0.00306	3.13593	0.20824	0.00838	1.21649
7.05716	-16.94383	2.56364	-0.27865	-1.31576	0.95110	-0.00305	3.13008	0.20919	0.00786	1.22429
7.22022	-17.05291	2.57132	-0.27347	-1.31635	0.95237	-0.00304	3.12009	0.21034	0.00734	1.23188
7.39098	-17.18295	2.58372	-0.26785	-1.31701	0.95395	-0.00303	3.10562	0.21170	0.00682	1.23946
7.56430	-17.29527	2.59269	-0.26313	-1.31761	0.95535	-0.00302	3.09675	0.21269	0.00640	1.24636
7.73994	-17.36970	2.59317	-0.25930	-1.31826	0.95615	-0.00301	3.09692	0.21322	0.00603	1.25270
7.92393	-17.45957	2.59675	-0.25482	-1.31904	0.95711	-0.00300	3.09303	0.21400	0.00562	1.25892
8.11030	-17.56511	2.60411	-0.24988	-1.31985	0.95826	-0.00299	3.08493	0.21500	0.00520	1.26472
8.29876	-17.69245	2.61669	-0.24448	-1.32064	0.95970	-0.00298	3.07188	0.21621	0.00479	1.27004
8.49618	-17.78166	2.62101	-0.24074	-1.32140	0.96077	-0.00297	3.06992	0.21676	0.00449	1.27483
8.69565	-17.82516	2.61562	-0.23837	-1.32227	0.96130	-0.00297	3.07861	0.21676	0.00424	1.27931
8.90472	-17.89251	2.61506	-0.23503	-1.32323	0.96209	-0.00296	3.08121	0.21712	0.00393	1.28393
9.11577	-17.96799	2.61657	-0.23146	-1.32420	0.96296	-0.00295	3.08135	0.21759	0.00362	1.28850
9.32836	-18.07770	2.62552	-0.22654	-1.32516	0.96410	-0.00294	3.07250	0.21855	0.00327	1.29322
9.54198	-18.17347	2.63218	-0.22267	-1.32600	0.96516	-0.00293	3.06788	0.21919	0.00301	1.29776
9.76563	-18.18485	2.62132	-0.22259	-1.32685	0.96562	-0.00292	3.08500	0.21857	0.00288	1.30232
10.00000	-18.19043	2.60907	-0.22271	-1.32778	0.96606	-0.00292	3.10346	0.21789	0.00274	1.30762

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Low stress drop
Lowlands soil profile
EPRI (1993) soil properties
Depth 610 - 1220 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-3.10827	2.35468	-0.24683	-2.35454	0.93020	-0.00151	5.67455	0.30383	0.02179	0.27691
PGV	8.48619	1.86079	-0.16301	-3.70897	1.23685	-0.00037	18.19566	0.23643	-0.00037	0.42505
PGA	4.73231	1.56285	-0.07346	-3.31616	0.71758	-0.00096	9.69916	0.40019	-0.03109	0.80316
0.01000	4.70705	1.57070	-0.07222	-3.30870	0.69809	-0.00096	9.67104	0.40392	-0.01419	0.73896
0.01024	4.71596	1.57097	-0.07205	-3.31011	0.69772	-0.00096	9.68109	0.40395	-0.01421	0.73937
0.01048	4.72680	1.57123	-0.07187	-3.31185	0.69741	-0.00096	9.69437	0.40394	-0.01424	0.73976
0.01072	4.73959	1.57151	-0.07168	-3.31393	0.69717	-0.00096	9.71084	0.40390	-0.01427	0.74011
0.01097	4.75443	1.57180	-0.07148	-3.31636	0.69697	-0.00096	9.73065	0.40383	-0.01431	0.74045
0.01123	4.77146	1.57211	-0.07127	-3.31917	0.69682	-0.00096	9.75399	0.40373	-0.01435	0.74077
0.01150	4.79086	1.57244	-0.07105	-3.32238	0.69671	-0.00095	9.78113	0.40359	-0.01440	0.74107
0.01177	4.81285	1.57279	-0.07080	-3.32604	0.69664	-0.00095	9.81240	0.40341	-0.01445	0.74137
0.01205	4.83776	1.57317	-0.07055	-3.33019	0.69662	-0.00095	9.84832	0.40320	-0.01451	0.74166
0.01233	4.86605	1.57359	-0.07027	-3.33493	0.69665	-0.00094	9.88966	0.40294	-0.01457	0.74196
0.01262	4.89825	1.57405	-0.06997	-3.34033	0.69672	-0.00094	9.93727	0.40263	-0.01464	0.74229
0.01292	4.93493	1.57455	-0.06964	-3.34651	0.69685	-0.00093	9.99212	0.40226	-0.01473	0.74264
0.01322	4.97654	1.57512	-0.06928	-3.35352	0.69703	-0.00093	10.05494	0.40183	-0.01482	0.74304
0.01353	5.02330	1.57574	-0.06889	-3.36141	0.69727	-0.00092	10.12608	0.40134	-0.01492	0.74350
0.01385	5.07573	1.57642	-0.06845	-3.37025	0.69756	-0.00091	10.20638	0.40078	-0.01503	0.74403
0.01417	5.13477	1.57718	-0.06797	-3.38020	0.69791	-0.00090	10.29750	0.40014	-0.01516	0.74466
0.01451	5.20156	1.57802	-0.06745	-3.39146	0.69831	-0.00090	10.40138	0.39942	-0.01531	0.74543
0.01485	5.27693	1.57896	-0.06687	-3.40415	0.69879	-0.00088	10.51954	0.39860	-0.01547	0.74635
0.01520	5.36141	1.58002	-0.06622	-3.41837	0.69941	-0.00087	10.65288	0.39768	-0.01565	0.74742
0.01556	5.45574	1.58123	-0.06550	-3.43424	0.70017	-0.00086	10.80264	0.39668	-0.01585	0.74869
0.01592	5.55988	1.58262	-0.06468	-3.45173	0.70101	-0.00085	10.96889	0.39559	-0.01608	0.75022
0.01630	5.67195	1.58415	-0.06377	-3.47046	0.70181	-0.00083	11.14860	0.39447	-0.01635	0.75208
0.01668	5.79137	1.58581	-0.06275	-3.49032	0.70254	-0.00082	11.34092	0.39332	-0.01666	0.75425
0.01707	5.91836	1.58759	-0.06164	-3.51130	0.70324	-0.00081	11.54652	0.39215	-0.01700	0.75673
0.01748	6.05046	1.58948	-0.06042	-3.53294	0.70374	-0.00079	11.76087	0.39101	-0.01736	0.75936
0.01789	6.18532	1.59148	-0.05910	-3.55483	0.70384	-0.00078	11.97939	0.38993	-0.01771	0.76204
0.01831	6.31982	1.59350	-0.05767	-3.57635	0.70347	-0.00076	12.19729	0.38897	-0.01808	0.76481
0.01874	6.45498	1.59559	-0.05613	-3.59769	0.70263	-0.00075	12.41678	0.38811	-0.01845	0.76759
0.01918	6.58994	1.59788	-0.05449	-3.61881	0.70147	-0.00074	12.63525	0.38737	-0.01881	0.77035
0.01963	6.71985	1.60042	-0.05276	-3.63891	0.70004	-0.00073	12.84251	0.38684	-0.01915	0.77301
0.02009	6.83972	1.60311	-0.05096	-3.65704	0.69786	-0.00072	13.02892	0.38660	-0.01950	0.77574
0.02057	6.94521	1.60586	-0.04911	-3.67241	0.69455	-0.00072	13.18659	0.38671	-0.01992	0.77896
0.02105	7.04039	1.60867	-0.04726	-3.68587	0.69032	-0.00071	13.32367	0.38704	-0.02039	0.78252
0.02154	7.13916	1.61155	-0.04543	-3.69995	0.68624	-0.00071	13.46713	0.38734	-0.02082	0.78581
0.02205	7.23929	1.61442	-0.04363	-3.71437	0.68301	-0.00071	13.61262	0.38758	-0.02115	0.78849
0.02257	7.31785	1.61727	-0.04177	-3.72504	0.67993	-0.00071	13.71613	0.38816	-0.02148	0.79120
0.02310	7.34777	1.62025	-0.03974	-3.72726	0.67568	-0.00072	13.72360	0.38958	-0.02181	0.79393
0.02364	7.33673	1.62361	-0.03761	-3.72272	0.67021	-0.00074	13.64558	0.39177	-0.02201	0.79576
0.02420	7.30666	1.62712	-0.03557	-3.71509	0.66416	-0.00076	13.52836	0.39430	-0.02205	0.79655
0.02477	7.27974	1.63037	-0.03368	-3.70796	0.65780	-0.00077	13.41960	0.39671	-0.02205	0.79700
0.02535	7.25512	1.63303	-0.03189	-3.70076	0.65158	-0.00079	13.32305	0.39896	-0.02211	0.79793
0.02595	7.19890	1.63501	-0.03007	-3.68736	0.64573	-0.00081	13.17927	0.40153	-0.02227	0.79952
0.02656	7.10784	1.63713	-0.02821	-3.66782	0.63986	-0.00085	12.97747	0.40465	-0.02248	0.80143
0.02719	6.99829	1.64020	-0.02629	-3.64576	0.63339	-0.00088	12.73956	0.40824	-0.02273	0.80361
0.02783	6.86793	1.64419	-0.02422	-3.62102	0.62648	-0.00093	12.45798	0.41237	-0.02298	0.80576
0.02848	6.70881	1.64832	-0.02195	-3.59169	0.61925	-0.00098	12.12286	0.41705	-0.02312	0.80718
0.02915	6.54023	1.65190	-0.01963	-3.56072	0.61253	-0.00102	11.77452	0.42184	-0.02312	0.80779
0.02984	6.38503	1.65497	-0.01749	-3.53209	0.60636	-0.00107	11.45425	0.42632	-0.02298	0.80747
0.03054	6.26125	1.65886	-0.01561	-3.50973	0.60080	-0.00110	11.18787	0.43039	-0.02267	0.80618
0.03126	6.18094	1.66388	-0.01398	-3.49558	0.59661	-0.00114	10.99893	0.43383	-0.02244	0.80537
0.03199	6.10390	1.66883	-0.01242	-3.48162	0.59222	-0.00117	10.82159	0.43723	-0.02231	0.80540
0.03275	5.97685	1.67307	-0.01072	-3.45847	0.58526	-0.00120	10.55907	0.44160	-0.02200	0.80431
0.03352	5.78447	1.67657	-0.00886	-3.42373	0.57547	-0.00124	10.18490	0.44731	-0.02141	0.80152
0.03430	5.53909	1.67909	-0.00692	-3.37913	0.56378	-0.00129	9.73047	0.45411	-0.02080	0.79870
0.03511	5.27209	1.68073	-0.00499	-3.33006	0.55076	-0.00133	9.25471	0.46140	-0.02039	0.79718
0.03594	5.01586	1.68272	-0.00307	-3.28308	0.53706	-0.00137	8.80589	0.46874	-0.02024	0.79727
0.03678	4.76512	1.68624	-0.00097	-3.23824	0.52451	-0.00142	8.37554	0.47629	-0.02026	0.79852
0.03765	4.48260	1.69087	0.00148	-3.18900	0.51228	-0.00147	7.90910	0.48481	-0.02023	0.79949
0.03854	4.15423	1.69534	0.00414	-3.13183	0.49861	-0.00154	7.39287	0.49457	-0.02001	0.79904
0.03944	3.83627	1.69850	0.00650	-3.07584	0.48574	-0.00160	6.91207	0.50407	-0.01968	0.79775
0.04037	3.57310	1.70039	0.00834	-3.02903	0.47688	-0.00165	6.52293	0.51209	-0.01940	0.79660
0.04132	3.36249	1.70232	0.00989	-2.99146	0.47092	-0.00169	6.21486	0.51889	-0.01926	0.79651
0.04229	3.18000	1.70469	0.01139	-2.95889	0.46408	-0.00173	5.94919	0.52527	-0.01917	0.79686
0.04329	3.01122	1.70723	0.01280	-2.92903	0.45458	-0.00175	5.70005	0.53166	-0.01900	0.79683
0.04431	2.85422	1.70961	0.01401	-2.90137	0.44463	-0.00177	5.47000	0.53783	-0.01874	0.79637
0.04535	2.69985	1.71153	0.01503	-2.87393	0.43766	-0.00179	5.25759	0.54359	-0.01849	0.79588

0.04642	2.51807	1.71270	0.01602	-2.84101	0.43129	-0.00182	5.02431	0.54995	-0.01830	0.79577
0.04751	2.31149	1.71284	0.01694	-2.80285	0.42127	-0.00185	4.76583	0.55725	-0.01812	0.79536
0.04863	2.11925	1.71271	0.01771	-2.76710	0.40929	-0.00187	4.52497	0.56449	-0.01804	0.79536
0.04977	1.95065	1.71170	0.01834	-2.73486	0.39739	-0.00188	4.31307	0.57116	-0.01814	0.79648
0.05094	1.81279	1.70966	0.01862	-2.70755	0.38775	-0.00188	4.13789	0.57676	-0.01818	0.79717
0.05214	1.68294	1.70858	0.01878	-2.68268	0.38077	-0.00189	3.97645	0.58210	-0.01800	0.79639
0.05337	1.56487	1.70981	0.01890	-2.66189	0.37657	-0.00190	3.83420	0.58713	-0.01768	0.79470
0.05462	1.49149	1.71289	0.01870	-2.65069	0.37543	-0.00192	3.74168	0.59068	-0.01730	0.79246
0.05591	1.43138	1.71565	0.01825	-2.64147	0.37212	-0.00192	3.66022	0.59400	-0.01679	0.78923
0.05722	1.32897	1.71620	0.01784	-2.62265	0.36337	-0.00192	3.53589	0.59891	-0.01608	0.78473
0.05857	1.18780	1.71537	0.01757	-2.59578	0.35203	-0.00193	3.37838	0.60515	-0.01532	0.78022
0.05995	1.02704	1.71426	0.01751	-2.56508	0.34068	-0.00194	3.20987	0.61208	-0.01476	0.77721
0.06136	0.86572	1.71305	0.01760	-2.53397	0.33300	-0.00196	3.05205	0.61876	-0.01454	0.77623
0.06280	0.72945	1.71277	0.01772	-2.50824	0.33158	-0.00200	2.92747	0.62413	-0.01457	0.77661
0.06428	0.63918	1.71367	0.01764	-2.49201	0.33529	-0.00204	2.84760	0.62760	-0.01458	0.77688
0.06579	0.58476	1.71459	0.01729	-2.48234	0.33954	-0.00207	2.79718	0.62979	-0.01445	0.77647
0.06734	0.52660	1.71469	0.01689	-2.47132	0.34048	-0.00209	2.74144	0.63227	-0.01429	0.77617
0.06893	0.42476	1.71241	0.01647	-2.45057	0.33720	-0.00211	2.64647	0.63653	-0.01402	0.77531
0.07055	0.28529	1.70702	0.01572	-2.42087	0.33164	-0.00213	2.51740	0.64231	-0.01347	0.77249
0.07221	0.15345	1.69987	0.01425	-2.39193	0.32786	-0.00214	2.39357	0.64769	-0.01270	0.76805
0.07391	0.07849	1.69285	0.01190	-2.37385	0.32703	-0.00215	2.31816	0.65045	-0.01190	0.76324
0.07565	0.04519	1.68742	0.00928	-2.36416	0.32590	-0.00214	2.28145	0.65140	-0.01136	0.75973
0.07743	0.00298	1.68470	0.00716	-2.35404	0.32297	-0.00214	2.24521	0.65293	-0.01129	0.75940
0.07925	-0.06993	1.68330	0.00551	-2.33858	0.31825	-0.00215	2.19073	0.65591	-0.01160	0.76177
0.08111	-0.16055	1.68031	0.00385	-2.31854	0.31315	-0.00216	2.12359	0.65953	-0.01207	0.76520
0.08302	-0.24893	1.67640	0.00203	-2.29899	0.31037	-0.00218	2.05504	0.66303	-0.01258	0.76911
0.08498	-0.31413	1.67295	-0.00007	-2.28503	0.31125	-0.00219	1.99983	0.66556	-0.01299	0.77247
0.08697	-0.34353	1.66844	-0.00287	-2.27725	0.31420	-0.00219	1.96814	0.66632	-0.01312	0.77403
0.08902	-0.34898	1.66311	-0.00612	-2.27289	0.31779	-0.00218	1.95519	0.66578	-0.01291	0.77367
0.09112	-0.35723	1.65848	-0.00912	-2.26790	0.32103	-0.00218	1.94416	0.66535	-0.01237	0.77166
0.09326	-0.38489	1.65428	-0.01166	-2.25955	0.32207	-0.00217	1.92032	0.66596	-0.01157	0.76796
0.09545	-0.43294	1.64961	-0.01389	-2.24740	0.32002	-0.00217	1.88286	0.66748	-0.01062	0.76276
0.09770	-0.49424	1.64320	-0.01621	-2.23172	0.31536	-0.00217	1.83771	0.66930	-0.00956	0.75689
0.10000	-0.55527	1.63539	-0.01896	-2.21498	0.31150	-0.00217	1.79257	0.67089	-0.00843	0.75128
0.10235	-0.60154	1.62718	-0.02228	-2.20028	0.30976	-0.00218	1.75774	0.67171	-0.00749	0.74735
0.10476	-0.66408	1.61984	-0.02570	-2.18287	0.30602	-0.00218	1.71352	0.67361	-0.00675	0.74481
0.10723	-0.75619	1.61438	-0.02872	-2.16135	0.30066	-0.00218	1.65317	0.67722	-0.00621	0.74372
0.10975	-0.84607	1.61059	-0.03151	-2.14172	0.29851	-0.00220	1.59833	0.68060	-0.00588	0.74419
0.11233	-0.92014	1.60791	-0.03431	-2.12633	0.29891	-0.00221	1.55293	0.68327	-0.00588	0.74685
0.11498	-0.98104	1.60575	-0.03704	-2.11428	0.30143	-0.00223	1.51480	0.68531	-0.00613	0.75099
0.11768	-1.02281	1.60191	-0.04006	-2.10479	0.30483	-0.00224	1.48939	0.68592	-0.00640	0.75496
0.12045	-1.05474	1.59607	-0.04342	-2.09576	0.30598	-0.00223	1.47072	0.68563	-0.00673	0.75914
0.12328	-1.08246	1.59122	-0.04668	-2.08838	0.30651	-0.00223	1.45462	0.68525	-0.00731	0.76455
0.12619	-1.11942	1.58874	-0.04945	-2.08111	0.30858	-0.00223	1.43370	0.68568	-0.00799	0.77017
0.12916	-1.15855	1.58747	-0.05192	-2.07432	0.31256	-0.00224	1.41411	0.68617	-0.00839	0.77366
0.13219	-1.19177	1.58579	-0.05446	-2.06810	0.31586	-0.00224	1.40021	0.68613	-0.00840	0.77438
0.13531	-1.23865	1.58275	-0.05704	-2.05763	0.31514	-0.00225	1.37799	0.68691	-0.00812	0.77292
0.13849	-1.31072	1.57890	-0.05944	-2.04121	0.30955	-0.00225	1.34022	0.68939	-0.00766	0.76947
0.14175	-1.39936	1.57596	-0.06131	-2.02239	0.30443	-0.00226	1.29548	0.69281	-0.00722	0.76541
0.14508	-1.49274	1.57432	-0.06267	-2.00380	0.30331	-0.00229	1.25163	0.69635	-0.00692	0.76270
0.14850	-1.58228	1.57301	-0.06404	-1.98598	0.30542	-0.00233	1.21181	0.69960	-0.00686	0.76205
0.15199	-1.67028	1.57032	-0.06585	-1.96715	0.30652	-0.00236	1.17294	0.70271	-0.00700	0.76263
0.15557	-1.76963	1.56424	-0.06844	-1.94374	0.30175	-0.00238	1.12368	0.70666	-0.00717	0.76323
0.15923	-1.89403	1.55473	-0.07175	-1.91365	0.29106	-0.00238	1.05538	0.71255	-0.00718	0.76310
0.16298	-2.01855	1.54501	-0.07541	-1.88418	0.27986	-0.00237	0.98741	0.71869	-0.00700	0.76226
0.16681	-2.10958	1.53671	-0.07941	-1.86254	0.27187	-0.00235	0.94045	0.72256	-0.00651	0.76004
0.17074	-2.17885	1.52908	-0.08363	-1.84524	0.26701	-0.00233	0.90757	0.72472	-0.00590	0.75714
0.17475	-2.27238	1.52182	-0.08742	-1.82326	0.26326	-0.00233	0.86407	0.72863	-0.00546	0.75526
0.17887	-2.39298	1.51536	-0.09074	-1.79638	0.25924	-0.00235	0.80963	0.73476	-0.00530	0.75521
0.18307	-2.49808	1.51006	-0.09434	-1.77285	0.25433	-0.00236	0.76650	0.73981	-0.00513	0.75536
0.18738	-2.56485	1.50552	-0.09854	-1.75758	0.25123	-0.00237	0.74292	0.74180	-0.00483	0.75483
0.19179	-2.61444	1.50066	-0.10282	-1.74617	0.25085	-0.00236	0.72643	0.74234	-0.00461	0.75485
0.19631	-2.68292	1.49517	-0.10642	-1.73131	0.25115	-0.00237	0.70149	0.74415	-0.00445	0.75522
0.20092	-2.76195	1.49009	-0.10942	-1.71529	0.25451	-0.00238	0.67378	0.74636	-0.00436	0.75618
0.20565	-2.81005	1.48610	-0.11256	-1.70600	0.26394	-0.00241	0.66202	0.74554	-0.00437	0.75791
0.21049	-2.82972	1.48397	-0.11592	-1.70286	0.27414	-0.00244	0.66480	0.74246	-0.00439	0.75985
0.21544	-2.83674	1.48348	-0.11954	-1.70303	0.27926	-0.00245	0.67336	0.73899	-0.00440	0.76161
0.22051	-2.83215	1.48360	-0.12351	-1.70638	0.28017	-0.00244	0.68514	0.73521	-0.00429	0.76264
0.22570	-2.82208	1.48334	-0.12760	-1.71140	0.28094	-0.00241	0.69728	0.73112	-0.00392	0.76193
0.23101	-2.80085	1.48173	-0.13200	-1.71786	0.28596	-0.00238	0.71372	0.72567	-0.00348	0.76083
0.23645	-2.76759	1.47851	-0.13690	-1.72478	0.29325	-0.00235	0.73614	0.71885	-0.00319	0.76099
0.24201	-2.75127	1.47469	-0.14170	-1.72683	0.29605	-0.00233	0.75234	0.71340	-0.00306	0.76235
0.24771	-2.77583	1.47096	-0.14589	-1.72032	0.29361	-0.00232	0.75082	0.71130	-0.00307	0.76439
0.25354	-2.82306	1.46739	-0.14983	-1.70955	0.29324	-0.00232	0.73942	0.71086	-0.00324	0.76740
0.25950	-2.85667	1.46445	-0.15395	-1.70229	0.30276	-0.00235	0.73630	0.70877	-0.00346	0.77106
0.26561	-2.85265	1.46294	-0.15836	-1.70377	0.32214	-0.00239	0.75396	0.70315	-0.00335	0.77255
0.27186	-2.79352	1.46367	-0.16338	-1.71767	0.34670	-0.00242	0.80282	0.69293	-0.00271	0.77023
0.27826	-2.67541	1.46743	-0.16894	-1.74539	0.37510	-0.00243	0.88803	0.67847	-0.00164	0.76478
0.28480	-2.55070	1.47363	-0.17409	-1.77649	0.40582	-0.00245	0.98351	0.66434	-0.00034	0.75774
0.29150	-2.49230	1.48016	-0.17817	-1.79497	0.43434	-0.00250	1.04622	0.65547	0.00043	0.75406
0.29836	-2.53108	1.48408	-0.18154	-1.79211	0.45201	-0.00257	1.05268	0.65342	0.00019	0.75645

0.30539	-2.64869	1.48354	-0.18481	-1.77005	0.45406	-0.00263	1.00970	0.65685	-0.00042	0.76104
0.31257	-2.79411	1.48026	-0.18806	-1.74020	0.44704	-0.00267	0.94981	0.66232	-0.00065	0.76361
0.31993	-2.92996	1.47653	-0.19141	-1.71206	0.43797	-0.00269	0.89589	0.66727	-0.00034	0.76309
0.32745	-3.03582	1.47230	-0.19550	-1.69015	0.42928	-0.00270	0.85719	0.66995	0.00033	0.76020
0.33517	-3.12753	1.46684	-0.20036	-1.67062	0.42058	-0.00268	0.82467	0.67129	0.00099	0.75730
0.34304	-3.23125	1.46078	-0.20519	-1.64836	0.41067	-0.00267	0.78671	0.67344	0.00155	0.75474
0.35112	-3.32632	1.45577	-0.20979	-1.62828	0.40095	-0.00266	0.75675	0.67493	0.00223	0.75098
0.35938	-3.37251	1.45373	-0.21458	-1.62011	0.39518	-0.00264	0.75561	0.67250	0.00299	0.74667
0.36784	-3.38742	1.45503	-0.21962	-1.62144	0.39244	-0.00261	0.77249	0.66773	0.00362	0.74347
0.37649	-3.43293	1.45829	-0.22447	-1.61901	0.38957	-0.00260	0.77345	0.66582	0.00411	0.74140
0.38536	-3.53092	1.46243	-0.22878	-1.60720	0.38689	-0.00261	0.74638	0.66859	0.00447	0.74026
0.39442	-3.64023	1.46701	-0.23293	-1.59368	0.38578	-0.00263	0.71340	0.67252	0.00457	0.74088
0.40370	-3.72791	1.47125	-0.23736	-1.58451	0.38640	-0.00264	0.69209	0.67425	0.00447	0.74273
0.41321	-3.78556	1.47443	-0.24230	-1.58085	0.39032	-0.00265	0.68778	0.67236	0.00429	0.74504
0.42292	-3.82064	1.47714	-0.24774	-1.58153	0.40040	-0.00266	0.69744	0.66757	0.00399	0.74833
0.43288	-3.84713	1.48010	-0.25342	-1.58426	0.41716	-0.00269	0.71431	0.66143	0.00361	0.75243
0.44307	-3.86477	1.48322	-0.25921	-1.58908	0.43879	-0.00273	0.73868	0.65404	0.00332	0.75633
0.45349	-3.87850	1.48604	-0.26514	-1.59459	0.46133	-0.00276	0.76737	0.64598	0.00336	0.75815
0.46417	-3.90241	1.48822	-0.27123	-1.59725	0.48120	-0.00279	0.79065	0.63894	0.00380	0.75706
0.47508	-3.93953	1.49031	-0.27728	-1.59668	0.49659	-0.00282	0.80561	0.63351	0.00426	0.75566
0.48626	-3.99344	1.49317	-0.28288	-1.59323	0.50609	-0.00283	0.80956	0.63017	0.00433	0.75728
0.49771	-4.06577	1.49677	-0.28777	-1.58695	0.51008	-0.00285	0.80184	0.62887	0.00399	0.76234
0.50942	-4.14532	1.50076	-0.29226	-1.57974	0.51234	-0.00286	0.79199	0.62791	0.00368	0.76801
0.52140	-4.21648	1.50448	-0.29697	-1.57383	0.51609	-0.00287	0.79049	0.62545	0.00382	0.77139
0.53367	-4.26166	1.50756	-0.30227	-1.57221	0.52390	-0.00288	0.80712	0.61995	0.00450	0.77118
0.54624	-4.28272	1.51028	-0.30793	-1.57466	0.53409	-0.00289	0.84057	0.61200	0.00557	0.76770
0.55910	-4.30984	1.51268	-0.31352	-1.57509	0.53980	-0.00289	0.87147	0.60476	0.00671	0.76294
0.57225	-4.37652	1.51458	-0.31881	-1.56699	0.53665	-0.00289	0.87607	0.60132	0.00766	0.75890
0.58569	-4.49142	1.51599	-0.32382	-1.54910	0.52628	-0.00288	0.84757	0.60236	0.00835	0.75644
0.59948	-4.62218	1.51730	-0.32875	-1.52848	0.51518	-0.00288	0.80833	0.60494	0.00886	0.75574
0.61357	-4.72805	1.51969	-0.33365	-1.51450	0.51028	-0.00288	0.78555	0.60533	0.00922	0.75679
0.62802	-4.80670	1.52409	-0.33844	-1.50840	0.51115	-0.00286	0.78065	0.60344	0.00941	0.75919
0.64280	-4.87462	1.52999	-0.34306	-1.50588	0.51163	-0.00284	0.78238	0.60105	0.00941	0.76255
0.65794	-4.94842	1.53589	-0.34761	-1.50188	0.50725	-0.00281	0.78100	0.59926	0.00932	0.76608
0.67340	-5.04164	1.54080	-0.35214	-1.49284	0.49916	-0.00277	0.76963	0.59861	0.00949	0.76769
0.68927	-5.15986	1.54479	-0.35656	-1.47789	0.49237	-0.00277	0.74670	0.59917	0.00997	0.76749
0.70547	-5.29530	1.54856	-0.36080	-1.45925	0.49062	-0.00280	0.71672	0.60056	0.01053	0.76695
0.72207	-5.43757	1.55289	-0.36486	-1.43991	0.49431	-0.00287	0.68497	0.60228	0.01093	0.76750
0.73910	-5.57673	1.55811	-0.36873	-1.42223	0.50141	-0.00294	0.65612	0.60384	0.01085	0.77087
0.75649	-5.69967	1.56459	-0.37243	-1.40933	0.51125	-0.00301	0.63732	0.60410	0.01018	0.77734
0.77429	-5.79763	1.57293	-0.37606	-1.40391	0.52529	-0.00308	0.63386	0.60205	0.00921	0.78469
0.79246	-5.86926	1.58336	-0.37978	-1.40657	0.54400	-0.00312	0.64671	0.59751	0.00851	0.78878
0.81116	-5.91779	1.59515	-0.38382	-1.41572	0.56589	-0.00316	0.67553	0.59051	0.00851	0.78704
0.83022	-5.94598	1.60660	-0.38819	-1.42853	0.58664	-0.00318	0.71913	0.58122	0.00914	0.78041
0.84976	-5.96014	1.61713	-0.39288	-1.44290	0.60280	-0.00318	0.77450	0.57040	0.01019	0.77085
0.86972	-5.96748	1.62694	-0.39784	-1.45773	0.61395	-0.00317	0.83742	0.55892	0.01154	0.75972
0.89023	-5.98269	1.63616	-0.40288	-1.47050	0.62224	-0.00315	0.89920	0.54784	0.01295	0.74869
0.91116	-6.02504	1.64469	-0.40752	-1.47724	0.62947	-0.00315	0.94475	0.53887	0.01397	0.74130
0.93257	-6.10693	1.65286	-0.41145	-1.47599	0.63637	-0.00317	0.96221	0.53318	0.01424	0.74006
0.95456	-6.22399	1.66099	-0.41479	-1.46847	0.64355	-0.00320	0.95318	0.53034	0.01388	0.74403
0.97704	-6.35668	1.66909	-0.41783	-1.45901	0.65153	-0.00323	0.93359	0.52832	0.01332	0.74997
1.00000	-6.48574	1.67684	-0.42094	-1.45090	0.65916	-0.00325	0.92008	0.52507	0.01288	0.75580
1.02354	-6.60179	1.68429	-0.42431	-1.44539	0.66527	-0.00325	0.92078	0.51982	0.01248	0.76229
1.04767	-6.70900	1.69203	-0.42786	-1.44168	0.67067	-0.00325	0.93329	0.51320	0.01200	0.77057
1.07227	-6.82097	1.70038	-0.43148	-1.43699	0.67628	-0.00325	0.94833	0.50645	0.01156	0.77956
1.09745	-6.94926	1.70922	-0.43517	-1.42876	0.68197	-0.00328	0.95808	0.50034	0.01138	0.78736
1.12334	-7.08847	1.71857	-0.43886	-1.41829	0.68817	-0.00332	0.96523	0.49455	0.01145	0.79343
1.14982	-7.21941	1.72856	-0.44244	-1.40997	0.69574	-0.00337	0.98125	0.48795	0.01157	0.79852
1.17675	-7.32983	1.73893	-0.44588	-1.40636	0.70319	-0.00341	1.01346	0.47987	0.01163	0.80307
1.20453	-7.41995	1.74926	-0.44929	-1.40721	0.70838	-0.00342	1.06403	0.47005	0.01164	0.80673
1.23289	-7.49424	1.75893	-0.45268	-1.41081	0.71016	-0.00340	1.12899	0.45908	0.01172	0.80875
1.26183	-7.55997	1.76791	-0.45601	-1.41539	0.70890	-0.00337	1.20094	0.44802	0.01183	0.81014
1.29149	-7.62878	1.77649	-0.45916	-1.41863	0.70510	-0.00333	1.26651	0.43830	0.01178	0.81276
1.32188	-7.71720	1.78484	-0.46210	-1.41720	0.69765	-0.00329	1.30607	0.43147	0.01159	0.81714
1.35300	-7.83572	1.79303	-0.46477	-1.40914	0.68587	-0.00325	1.30879	0.42797	0.01131	0.82303
1.38485	-7.98356	1.80105	-0.46706	-1.39491	0.67068	-0.00322	1.27915	0.42706	0.01102	0.82957
1.41743	-8.15375	1.80900	-0.46903	-1.37623	0.65394	-0.00319	1.22704	0.42791	0.01089	0.83553
1.45075	-8.33784	1.81728	-0.47077	-1.35526	0.63781	-0.00318	1.16066	0.43016	0.01096	0.84052
1.48500	-8.52701	1.82635	-0.47240	-1.33432	0.62469	-0.00317	1.08872	0.43343	0.01118	0.84507
1.51999	-8.71044	1.83639	-0.47401	-1.31589	0.61657	-0.00318	1.02227	0.43678	0.01149	0.84959
1.55569	-8.88322	1.84738	-0.47568	-1.30108	0.61378	-0.00319	0.96850	0.43925	0.01184	0.85399
1.59236	-9.04601	1.85912	-0.47739	-1.28975	0.61657	-0.00322	0.93038	0.44000	0.01226	0.85799
1.62973	-9.19698	1.87117	-0.47896	-1.28180	0.62442	-0.00325	0.91088	0.43834	0.01270	0.86169
1.66806	-9.33493	1.88345	-0.48018	-1.27741	0.63569	-0.00329	0.91221	0.43392	0.01308	0.86604
1.70736	-9.45661	1.89615	-0.48094	-1.27754	0.64944	-0.00331	0.93677	0.42671	0.01340	0.87137
1.74764	-9.56207	1.90954	-0.48123	-1.28251	0.66520	-0.00333	0.98452	0.41715	0.01377	0.87709
1.78859	-9.65258	1.92351	-0.48112	-1.29188	0.68338	-0.00334	1.05476	0.40576	0.01428	0.88232
1.83083	-9.73358	1.93804	-0.48071	-1.30454	0.70452	-0.00334	1.14738	0.39283	0.01501	0.88642
1.87371	-9.81164	1.95244	-0.48008	-1.31803	0.72680	-0.00335	1.25441	0.37939	0.01589	0.88930
1.91791	-9.89671	1.96651	-0.47923	-1.33011	0.74785	-0.00337	1.36752	0.36606	0.01680	0.89178
1.96309	-9.99247	1.97985	-0.47816	-1.33939	0.76558	-0.00339	1.48040	0.35318	0.01758	0.89452

2.00924	-10.09680	1.99234	-0.47680	-1.34631	0.78036	-0.00340	1.59674	0.34027	0.01823	0.89747
2.05634	-10.20478	2.00408	-0.47506	-1.35211	0.79392	-0.00341	1.72414	0.32688	0.01878	0.90031
2.10482	-10.31666	2.01527	-0.47294	-1.35703	0.80695	-0.00342	1.86359	0.31306	0.01927	0.90298
2.15424	-10.43387	2.02595	-0.47051	-1.36046	0.81871	-0.00343	2.00669	0.29952	0.01968	0.90568
2.20507	-10.55725	2.03640	-0.46774	-1.36249	0.82884	-0.00344	2.15158	0.28641	0.01998	0.90889
2.25683	-10.68528	2.04672	-0.46472	-1.36328	0.83684	-0.00344	2.29528	0.27400	0.02014	0.91283
2.31000	-10.81825	2.05725	-0.46144	-1.36329	0.84366	-0.00343	2.43826	0.26227	0.02023	0.91708
2.36463	-10.95541	2.06822	-0.45789	-1.36299	0.85064	-0.00343	2.57996	0.25127	0.02033	0.92061
2.42014	-11.09471	2.07961	-0.45414	-1.36260	0.85815	-0.00343	2.71842	0.24113	0.02048	0.92301
2.47709	-11.23807	2.09151	-0.45019	-1.36178	0.86544	-0.00343	2.85175	0.23182	0.02065	0.92467
2.53550	-11.38657	2.10390	-0.44615	-1.36007	0.87148	-0.00343	2.97522	0.22342	0.02085	0.92581
2.59471	-11.53983	2.11662	-0.44218	-1.35701	0.87578	-0.00343	3.08053	0.21616	0.02105	0.92691
2.65604	-11.70198	2.12985	-0.43823	-1.35214	0.87863	-0.00343	3.16229	0.21002	0.02117	0.92884
2.71887	-11.86968	2.14346	-0.43444	-1.34568	0.88043	-0.00343	3.21787	0.20509	0.02118	0.93208
2.78242	-12.03805	2.15728	-0.43091	-1.33825	0.88167	-0.00344	3.25036	0.20131	0.02109	0.93674
2.84819	-12.20683	2.17161	-0.42760	-1.33055	0.88291	-0.00344	3.26762	0.19840	0.02091	0.94313
2.91545	-12.37186	2.18629	-0.42462	-1.32306	0.88411	-0.00345	3.27227	0.19634	0.02067	0.95123
2.98329	-12.53049	2.20107	-0.42197	-1.31605	0.88509	-0.00346	3.26580	0.19507	0.02040	0.96056
3.05344	-12.68605	2.21629	-0.41966	-1.30943	0.88576	-0.00346	3.24938	0.19445	0.02014	0.97088
3.12598	-12.83886	2.23193	-0.41763	-1.30324	0.88619	-0.00346	3.22388	0.19447	0.01990	0.98169
3.19898	-12.98367	2.24747	-0.41595	-1.29782	0.88655	-0.00346	3.19337	0.19494	0.01969	0.99231
3.27439	-13.12482	2.26331	-0.41453	-1.29305	0.88694	-0.00346	3.15805	0.19584	0.01949	1.00264
3.35121	-13.25995	2.27910	-0.41339	-1.28899	0.88726	-0.00345	3.11943	0.19706	0.01928	1.01243
3.43053	-13.39166	2.29510	-0.41247	-1.28559	0.88758	-0.00344	3.07784	0.19857	0.01905	1.02191
3.51124	-13.51689	2.31091	-0.41176	-1.28308	0.88816	-0.00343	3.03688	0.20017	0.01877	1.03120
3.59324	-13.63708	2.32661	-0.41115	-1.28147	0.88915	-0.00342	2.99733	0.20184	0.01846	1.04034
3.67782	-13.75230	2.34231	-0.41072	-1.28080	0.89039	-0.00340	2.96134	0.20344	0.01809	1.04987
3.76506	-13.86596	2.35812	-0.41015	-1.28114	0.89225	-0.00338	2.93012	0.20497	0.01770	1.05953
3.85356	-13.97132	2.37363	-0.40982	-1.28258	0.89424	-0.00336	2.90788	0.20622	0.01728	1.06964
3.94477	-14.07435	2.38916	-0.40909	-1.28559	0.89759	-0.00333	2.90244	0.20700	0.01688	1.07933
4.03714	-14.16779	2.40443	-0.40850	-1.29008	0.90157	-0.00331	2.91401	0.20722	0.01650	1.08882
4.13223	-14.25878	2.41948	-0.40746	-1.29583	0.90686	-0.00328	2.94559	0.20679	0.01615	1.09761
4.23012	-14.34752	2.43467	-0.40605	-1.30296	0.91332	-0.00326	2.99783	0.20572	0.01590	1.10520
4.32900	-14.42944	2.44924	-0.40463	-1.31068	0.91994	-0.00324	3.06256	0.20423	0.01569	1.11201
4.43066	-14.51939	2.46379	-0.40228	-1.31862	0.92822	-0.00322	3.13538	0.20264	0.01554	1.11733
4.53515	-14.60501	2.47829	-0.39992	-1.32731	0.93699	-0.00320	3.21995	0.20074	0.01549	1.12188
4.64253	-14.69449	2.49216	-0.39719	-1.33538	0.94629	-0.00319	3.30052	0.19899	0.01543	1.12611
4.75059	-14.79627	2.50577	-0.39358	-1.34232	0.95682	-0.00319	3.36763	0.19785	0.01544	1.12922
4.86145	-14.89286	2.51919	-0.39019	-1.34942	0.96689	-0.00319	3.43809	0.19661	0.01558	1.13199
4.97760	-14.99900	2.53194	-0.38621	-1.35538	0.97699	-0.00319	3.49837	0.19573	0.01575	1.13459
5.09424	-15.11687	2.54425	-0.38134	-1.36002	0.98724	-0.00320	3.54509	0.19536	0.01601	1.13627
5.21376	-15.22892	2.55652	-0.37676	-1.36472	0.99584	-0.00320	3.59643	0.19478	0.01641	1.13793
5.33618	-15.35084	2.56771	-0.37182	-1.36708	1.00205	-0.00321	3.62514	0.19470	0.01678	1.13984
5.46150	-15.49550	2.57828	-0.36573	-1.36624	1.00618	-0.00321	3.62060	0.19551	0.01714	1.14135
5.58971	-15.63999	2.58922	-0.35982	-1.36468	1.00769	-0.00321	3.61181	0.19624	0.01755	1.14325
5.72082	-15.78177	2.59938	-0.35420	-1.36236	1.00732	-0.00320	3.59786	0.19689	0.01790	1.14603
5.85823	-15.94431	2.60783	-0.34738	-1.35723	1.00552	-0.00320	3.55478	0.19821	0.01811	1.14898
5.99520	-16.10781	2.61652	-0.34043	-1.35148	1.00184	-0.00319	3.50678	0.19957	0.01829	1.15230
6.13497	-16.26277	2.62601	-0.33409	-1.34654	0.99743	-0.00318	3.46897	0.20053	0.01842	1.15659
6.28141	-16.41584	2.63353	-0.32763	-1.34142	0.99445	-0.00317	3.43169	0.20144	0.01839	1.16136
6.42674	-16.56968	2.63907	-0.32053	-1.33561	0.99225	-0.00316	3.38975	0.20243	0.01822	1.16603
6.57895	-16.72630	2.64629	-0.31331	-1.33032	0.98970	-0.00316	3.35486	0.20314	0.01795	1.17157
6.73401	-16.87526	2.65509	-0.30672	-1.32637	0.98749	-0.00314	3.33189	0.20351	0.01763	1.17793
6.89180	-17.01185	2.66062	-0.30038	-1.32262	0.98725	-0.00314	3.30787	0.20403	0.01719	1.18450
7.05716	-17.15066	2.66406	-0.29325	-1.31841	0.98835	-0.00315	3.27635	0.20487	0.01653	1.19159
7.22022	-17.28584	2.66953	-0.28639	-1.31518	0.98949	-0.00315	3.25126	0.20558	0.01579	1.19912
7.39098	-17.42572	2.67801	-0.27972	-1.31282	0.99040	-0.00314	3.23168	0.20617	0.01500	1.20724
7.56430	-17.55037	2.68431	-0.27387	-1.31092	0.99182	-0.00314	3.21546	0.20674	0.01427	1.21484
7.73994	-17.65664	2.68481	-0.26797	-1.30866	0.99446	-0.00315	3.19468	0.20763	0.01348	1.22200
7.92393	-17.76877	2.68718	-0.26170	-1.30703	0.99728	-0.00316	3.17633	0.20857	0.01255	1.22953
8.11030	-17.88390	2.69209	-0.25550	-1.30618	1.00000	-0.00316	3.16232	0.20945	0.01163	1.23691
8.29876	-18.00661	2.70088	-0.24952	-1.30607	1.00243	-0.00316	3.15250	0.21022	0.01077	1.24386
8.49618	-18.10518	2.70378	-0.24463	-1.30563	1.00473	-0.00316	3.14470	0.21083	0.01008	1.24993
8.69565	-18.17412	2.69923	-0.24037	-1.30477	1.00704	-0.00316	3.13701	0.21142	0.00943	1.25564
8.90472	-18.25528	2.69794	-0.23565	-1.30441	1.00924	-0.00317	3.13053	0.21204	0.00872	1.26172
9.11577	-18.33797	2.69809	-0.23103	-1.30440	1.01126	-0.00317	3.12595	0.21262	0.00803	1.26772
9.32836	-18.44130	2.70396	-0.22573	-1.30491	1.01324	-0.00317	3.12048	0.21332	0.00734	1.27387
9.54198	-18.53374	2.70840	-0.22143	-1.30534	1.01487	-0.00316	3.11728	0.21382	0.00680	1.27957
9.76563	-18.56633	2.69909	-0.21986	-1.30498	1.01585	-0.00317	3.12067	0.21380	0.00644	1.28501
10.00000	-18.59206	2.68828	-0.21858	-1.30474	1.01669	-0.00317	3.12645	0.21366	0.00607	1.29126

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Low stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 6 - 15 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-0.19616	2.37443	-0.11639	-3.17331	1.10455	-0.00028	11.04975	0.26588	-0.02033	0.53854
PGV	9.59253	1.52075	-0.08459	-3.67906	1.08204	-0.00002	17.78916	0.23432	-0.00840	0.51683
PGA	3.85966	1.31506	-0.07962	-2.88846	0.54468	-0.00101	8.17408	0.37599	-0.02006	0.77422
0.01000	3.90362	1.31891	-0.07804	-2.89005	0.53371	-0.00102	8.16008	0.37868	0.00918	0.65765
0.01024	3.91336	1.31928	-0.07784	-2.89152	0.53310	-0.00101	8.16735	0.37879	0.00917	0.65814
0.01048	3.92408	1.31968	-0.07762	-2.89314	0.53245	-0.00101	8.17558	0.37891	0.00916	0.65862
0.01072	3.93584	1.32012	-0.07739	-2.89492	0.53173	-0.00101	8.18479	0.37903	0.00914	0.65908
0.01097	3.94885	1.32061	-0.07713	-2.89691	0.53094	-0.00101	8.19517	0.37917	0.00913	0.65952
0.01123	3.96325	1.32115	-0.07685	-2.89911	0.53007	-0.00101	8.20683	0.37931	0.00911	0.65997
0.01150	3.97934	1.32174	-0.07654	-2.90159	0.52913	-0.00101	8.22017	0.37946	0.00909	0.66043
0.01177	3.99749	1.32240	-0.07620	-2.90439	0.52812	-0.00100	8.23571	0.37962	0.00906	0.66092
0.01205	4.01785	1.32313	-0.07584	-2.90756	0.52702	-0.00100	8.25354	0.37978	0.00903	0.66143
0.01233	4.04054	1.32397	-0.07544	-2.91109	0.52578	-0.00100	8.27360	0.37997	0.00900	0.66199
0.01262	4.06514	1.32492	-0.07499	-2.91494	0.52436	-0.00099	8.29478	0.38019	0.00896	0.66259
0.01292	4.09042	1.32600	-0.07448	-2.91886	0.52273	-0.00099	8.31450	0.38049	0.00894	0.66318
0.01322	4.11537	1.32717	-0.07391	-2.92266	0.52088	-0.00099	8.33107	0.38088	0.00891	0.66378
0.01353	4.14048	1.32841	-0.07328	-2.92634	0.51885	-0.00098	8.34580	0.38134	0.00890	0.66440
0.01385	4.16728	1.32971	-0.07260	-2.93012	0.51665	-0.00098	8.36186	0.38185	0.00888	0.66504
0.01417	4.19533	1.33111	-0.07185	-2.93388	0.51414	-0.00098	8.37821	0.38243	0.00889	0.66569
0.01451	4.22289	1.33264	-0.07104	-2.93733	0.51109	-0.00098	8.39083	0.38316	0.00892	0.66634
0.01485	4.24999	1.33434	-0.07017	-2.94053	0.50727	-0.00098	8.39859	0.38404	0.00895	0.66710
0.01520	4.27511	1.33618	-0.06921	-2.94320	0.50258	-0.00098	8.39891	0.38512	0.00894	0.66825
0.01556	4.29655	1.33812	-0.06812	-2.94492	0.49729	-0.00098	8.38956	0.38642	0.00889	0.66991
0.01592	4.31736	1.34024	-0.06689	-2.94626	0.49181	-0.00098	8.37564	0.38788	0.00881	0.67192
0.01630	4.34520	1.34278	-0.06554	-2.94874	0.48638	-0.00098	8.36872	0.38941	0.00875	0.67408
0.01668	4.37968	1.34581	-0.06410	-2.95229	0.48042	-0.00098	8.36720	0.39105	0.00871	0.67637
0.01707	4.40598	1.34906	-0.06261	-2.95392	0.47287	-0.00099	8.34746	0.39310	0.00870	0.67879
0.01748	4.40780	1.35229	-0.06105	-2.95043	0.46329	-0.00100	8.28419	0.39586	0.00875	0.68107
0.01789	4.38168	1.35552	-0.05940	-2.94134	0.45252	-0.00102	8.17351	0.39934	0.00893	0.68289
0.01831	4.33935	1.35905	-0.05757	-2.92935	0.44221	-0.00104	8.03658	0.40323	0.00921	0.68436
0.01874	4.28781	1.36288	-0.05557	-2.91607	0.43372	-0.00108	7.88832	0.40726	0.00966	0.68515
0.01918	4.22037	1.36650	-0.05347	-2.89990	0.42745	-0.00112	7.72308	0.41141	0.01031	0.68480
0.01963	4.13998	1.36961	-0.05138	-2.88105	0.42243	-0.00117	7.54629	0.41562	0.01103	0.68394
0.02009	4.07098	1.37263	-0.04943	-2.86434	0.41708	-0.00122	7.38967	0.41958	0.01163	0.68346
0.02057	4.02974	1.37580	-0.04769	-2.85317	0.41002	-0.00124	7.27158	0.42303	0.01208	0.68353
0.02105	4.00151	1.37846	-0.04609	-2.84438	0.40058	-0.00124	7.16896	0.42622	0.01240	0.68411
0.02154	3.94110	1.37990	-0.04454	-2.82900	0.38790	-0.00125	7.01597	0.43011	0.01273	0.68445
0.02205	3.80905	1.38002	-0.04308	-2.79961	0.37097	-0.00126	6.75577	0.43575	0.01325	0.68349
0.02257	3.61723	1.37925	-0.04185	-2.75883	0.35061	-0.00128	6.41041	0.44299	0.01396	0.68134
0.02310	3.41224	1.37836	-0.04088	-2.71579	0.32977	-0.00130	6.05406	0.45074	0.01476	0.67869
0.02364	3.22926	1.37804	-0.03996	-2.67758	0.31179	-0.00132	5.74044	0.45799	0.01568	0.67516
0.02420	3.08642	1.37847	-0.03890	-2.64781	0.29952	-0.00135	5.49554	0.46398	0.01669	0.67065
0.02477	2.99177	1.37953	-0.03776	-2.62793	0.29453	-0.00138	5.32906	0.46827	0.01763	0.66598
0.02535	2.94653	1.38112	-0.03681	-2.61788	0.29639	-0.00142	5.24048	0.47071	0.01839	0.66191
0.02595	2.94734	1.38299	-0.03630	-2.61656	0.30191	-0.00145	5.22246	0.47151	0.01899	0.65867
0.02656	2.97443	1.38487	-0.03628	-2.62007	0.30720	-0.00147	5.24526	0.47137	0.01941	0.65658
0.02719	2.99464	1.38695	-0.03653	-2.62270	0.31080	-0.00149	5.26123	0.47138	0.01966	0.65595
0.02783	2.98026	1.38916	-0.03689	-2.61967	0.31236	-0.00151	5.22967	0.47241	0.01970	0.65700
0.02848	2.91847	1.39060	-0.03728	-2.60812	0.31111	-0.00153	5.13153	0.47476	0.01953	0.65954
0.02915	2.81157	1.39038	-0.03751	-2.58779	0.30770	-0.00155	4.97234	0.47826	0.01936	0.66208
0.02984	2.68625	1.38841	-0.03746	-2.56318	0.30546	-0.00158	4.79328	0.48197	0.01945	0.66276
0.03054	2.57858	1.38517	-0.03723	-2.54085	0.30734	-0.00161	4.64492	0.48474	0.01986	0.66118
0.03126	2.49624	1.38110	-0.03695	-2.52223	0.31104	-0.00164	4.53544	0.48649	0.02043	0.65848
0.03199	2.41681	1.37652	-0.03667	-2.50333	0.31116	-0.00167	4.43285	0.48821	0.02103	0.65551
0.03275	2.31976	1.37201	-0.03635	-2.48090	0.30535	-0.00168	4.30909	0.49080	0.02168	0.65207
0.03352	2.21688	1.36853	-0.03600	-2.45810	0.29595	-0.00169	4.17769	0.49399	0.02244	0.64776
0.03430	2.14403	1.36651	-0.03585	-2.44203	0.28706	-0.00168	4.08189	0.49651	0.02321	0.64322
0.03511	2.12837	1.36583	-0.03624	-2.43764	0.28146	-0.00166	4.05309	0.49730	0.02384	0.63952
0.03594	2.17063	1.36651	-0.03722	-2.44524	0.27960	-0.00163	4.08935	0.49635	0.02426	0.63704
0.03678	2.25779	1.36834	-0.03865	-2.46257	0.28013	-0.00158	4.17331	0.49418	0.02447	0.63583
0.03765	2.37369	1.37087	-0.04033	-2.48622	0.28271	-0.00153	4.28847	0.49119	0.02443	0.63639
0.03854	2.48435	1.37316	-0.04196	-2.50890	0.28770	-0.00148	4.40015	0.48820	0.02416	0.63893
0.03944	2.54351	1.37367	-0.04329	-2.52063	0.29387	-0.00147	4.45725	0.48627	0.02377	0.64267
0.04037	2.53210	1.37127	-0.04427	-2.51701	0.29993	-0.00148	4.43850	0.48571	0.02338	0.64679
0.04132	2.46571	1.36608	-0.04499	-2.50106	0.30657	-0.00152	4.36381	0.48601	0.02303	0.65104
0.04229	2.37727	1.35888	-0.04556	-2.47937	0.31540	-0.00158	4.27419	0.48624	0.02268	0.65555
0.04329	2.29856	1.35047	-0.04611	-2.45822	0.32645	-0.00164	4.20830	0.48555	0.02226	0.66054
0.04431	2.24273	1.34182	-0.04667	-2.44078	0.33790	-0.00170	4.17982	0.48378	0.02179	0.66544
0.04535	2.20635	1.33445	-0.04726	-2.42789	0.34780	-0.00174	4.17942	0.48148	0.02153	0.66845

0.04642	2.17210	1.32944	-0.04793	-2.41753	0.35424	-0.00177	4.17921	0.47964	0.02176	0.66766
0.04751	2.12011	1.32631	-0.04876	-2.40572	0.35559	-0.00179	4.14938	0.47903	0.02245	0.66313
0.04863	2.04492	1.32379	-0.04983	-2.39036	0.35194	-0.00180	4.08207	0.47971	0.02325	0.65715
0.04977	1.95476	1.32114	-0.05104	-2.37231	0.34509	-0.00180	3.98904	0.48124	0.02381	0.65215
0.05094	1.86205	1.31834	-0.05231	-2.35391	0.33685	-0.00179	3.88650	0.48315	0.02394	0.64949
0.05214	1.77599	1.31580	-0.05364	-2.33717	0.32809	-0.00177	3.78580	0.48516	0.02364	0.64929
0.05337	1.69868	1.31396	-0.05496	-2.32277	0.31942	-0.00175	3.69078	0.48721	0.02308	0.65050
0.05462	1.62968	1.31271	-0.05626	-2.31040	0.31177	-0.00174	3.60408	0.48916	0.02245	0.65217
0.05591	1.57477	1.31110	-0.05760	-2.30034	0.30579	-0.00173	3.53543	0.49045	0.02179	0.65442
0.05722	1.54234	1.30812	-0.05918	-2.29334	0.30168	-0.00171	3.49632	0.49050	0.02100	0.65833
0.05857	1.53295	1.30366	-0.06111	-2.28932	0.30023	-0.00169	3.48874	0.48918	0.01998	0.66467
0.05995	1.54246	1.29856	-0.06336	-2.28809	0.30269	-0.00167	3.50904	0.48678	0.01882	0.67299
0.06136	1.56403	1.29393	-0.06577	-2.28931	0.30923	-0.00166	3.54873	0.48379	0.01776	0.68160
0.06280	1.58952	1.29056	-0.06818	-2.29229	0.31819	-0.00165	3.59563	0.48078	0.01705	0.68859
0.06428	1.60871	1.28875	-0.07046	-2.29562	0.32698	-0.00164	3.63404	0.47832	0.01687	0.69227
0.06579	1.61203	1.28798	-0.07257	-2.29716	0.33328	-0.00164	3.65095	0.47672	0.01712	0.69291
0.06734	1.59330	1.28686	-0.07455	-2.29450	0.33572	-0.00163	3.64036	0.47594	0.01744	0.69256
0.06893	1.55361	1.28431	-0.07646	-2.28683	0.33485	-0.00162	3.60553	0.47566	0.01749	0.69313
0.07055	1.50019	1.27988	-0.07832	-2.27519	0.33259	-0.00162	3.55749	0.47539	0.01719	0.69508
0.07221	1.44301	1.27382	-0.08013	-2.26164	0.33084	-0.00161	3.50952	0.47470	0.01662	0.69800
0.07391	1.39319	1.26689	-0.08197	-2.24880	0.33062	-0.00161	3.47488	0.47331	0.01594	0.70114
0.07565	1.35524	1.26016	-0.08392	-2.23828	0.33216	-0.00161	3.45812	0.47132	0.01537	0.70361
0.07743	1.33548	1.25473	-0.08594	-2.23214	0.33574	-0.00161	3.46587	0.46877	0.01501	0.70501
0.07925	1.33655	1.25129	-0.08799	-2.23151	0.34129	-0.00160	3.50065	0.46573	0.01492	0.70535
0.08111	1.35289	1.25007	-0.08998	-2.23564	0.34845	-0.00159	3.55477	0.46252	0.01514	0.70430
0.08302	1.37334	1.25092	-0.09187	-2.24250	0.35666	-0.00159	3.61249	0.45960	0.01575	0.70116
0.08498	1.38975	1.25330	-0.09366	-2.25019	0.36525	-0.00159	3.66268	0.45719	0.01666	0.69616
0.08697	1.40544	1.25656	-0.09540	-2.25881	0.37446	-0.00158	3.70940	0.45501	0.01767	0.69050
0.08902	1.42165	1.26002	-0.09711	-2.26796	0.38467	-0.00158	3.75514	0.45285	0.01863	0.68525
0.09112	1.43422	1.26286	-0.09875	-2.27602	0.39586	-0.00158	3.79638	0.45068	0.01942	0.68137
0.09326	1.43889	1.26446	-0.10024	-2.28143	0.40781	-0.00158	3.83029	0.44849	0.01995	0.67961
0.09545	1.42399	1.26454	-0.10158	-2.28148	0.41910	-0.00159	3.84397	0.44666	0.02023	0.67983
0.09770	1.38191	1.26336	-0.10274	-2.27483	0.42884	-0.00161	3.82759	0.44556	0.02029	0.68162
0.10000	1.31713	1.26155	-0.10378	-2.26282	0.43728	-0.00164	3.78521	0.44522	0.02014	0.68497
0.10235	1.23415	1.25980	-0.10475	-2.24695	0.44462	-0.00168	3.72060	0.44569	0.01990	0.68903
0.10476	1.15084	1.25886	-0.10569	-2.23145	0.45133	-0.00171	3.65488	0.44649	0.01969	0.69286
0.10723	1.08605	1.25921	-0.10668	-2.22050	0.45778	-0.00174	3.61078	0.44699	0.01953	0.69618
0.10975	1.04878	1.26074	-0.10771	-2.21581	0.46410	-0.00176	3.59943	0.44677	0.01932	0.69959
0.11233	1.03471	1.26299	-0.10879	-2.21617	0.47016	-0.00177	3.61584	0.44587	0.01896	0.70361
0.11498	1.03640	1.26544	-0.10990	-2.21964	0.47598	-0.00178	3.65256	0.44442	0.01846	0.70843
0.11768	1.04958	1.26762	-0.11105	-2.22491	0.48227	-0.00178	3.70710	0.44239	0.01785	0.71383
0.12045	1.07197	1.26915	-0.11218	-2.23099	0.48885	-0.00178	3.77920	0.43976	0.01710	0.72005
0.12328	1.09624	1.27004	-0.11326	-2.23660	0.49612	-0.00179	3.85966	0.43680	0.01637	0.72610
0.12619	1.11857	1.27044	-0.11430	-2.24130	0.50441	-0.00180	3.94325	0.43364	0.01583	0.73078
0.12916	1.13947	1.27029	-0.11537	-2.24528	0.51356	-0.00182	4.03022	0.43027	0.01551	0.73405
0.13219	1.15277	1.26982	-0.11649	-2.24742	0.52292	-0.00185	4.11191	0.42701	0.01539	0.73605
0.13531	1.15619	1.26946	-0.11778	-2.24764	0.53084	-0.00187	4.18196	0.42415	0.01560	0.73592
0.13849	1.14767	1.26934	-0.11924	-2.24575	0.53716	-0.00190	4.23448	0.42187	0.01615	0.73360
0.14175	1.12854	1.26923	-0.12079	-2.24182	0.54198	-0.00192	4.27065	0.42007	0.01682	0.73045
0.14508	1.11052	1.26923	-0.12239	-2.23818	0.54577	-0.00194	4.30662	0.41835	0.01746	0.72761
0.14850	1.10441	1.26965	-0.12409	-2.23719	0.54955	-0.00196	4.35760	0.41638	0.01800	0.72536
0.15199	1.10703	1.27014	-0.12587	-2.23789	0.55282	-0.00197	4.42069	0.41419	0.01831	0.72475
0.15557	1.09643	1.27000	-0.12769	-2.23540	0.55342	-0.00198	4.46415	0.41247	0.01831	0.72619
0.15923	1.05988	1.26943	-0.12962	-2.22759	0.55053	-0.00199	4.46688	0.41174	0.01827	0.72820
0.16298	0.99740	1.26839	-0.13161	-2.21452	0.54419	-0.00199	4.42927	0.41194	0.01813	0.73106
0.16681	0.91219	1.26659	-0.13361	-2.19641	0.53421	-0.00199	4.35826	0.41290	0.01772	0.73594
0.17074	0.81290	1.26435	-0.13564	-2.17540	0.52177	-0.00199	4.26554	0.41436	0.01710	0.74246
0.17475	0.70848	1.26220	-0.13776	-2.15381	0.50802	-0.00199	4.16330	0.41609	0.01632	0.75040
0.17887	0.60622	1.25994	-0.13995	-2.13281	0.49467	-0.00198	4.06463	0.41769	0.01531	0.76002
0.18307	0.50444	1.25726	-0.14212	-2.11189	0.48009	-0.00197	3.96782	0.41913	0.01412	0.77089
0.18738	0.40710	1.25459	-0.14425	-2.09249	0.46574	-0.00195	3.87727	0.42028	0.01277	0.78274
0.19179	0.29601	1.25155	-0.14624	-2.07072	0.45171	-0.00194	3.76845	0.42174	0.01139	0.79452
0.19631	0.17079	1.24855	-0.14812	-2.04699	0.43820	-0.00194	3.64041	0.42361	0.01016	0.80499
0.20092	0.01966	1.24548	-0.14983	-2.01881	0.42448	-0.00194	3.47885	0.42642	0.00923	0.81317
0.20565	-0.14898	1.24248	-0.15154	-1.98782	0.40874	-0.00195	3.29570	0.43000	0.00849	0.81983
0.21049	-0.33722	1.23912	-0.15316	-1.95314	0.39075	-0.00196	3.09199	0.43439	0.00797	0.82498
0.21544	-0.53006	1.23590	-0.15485	-1.91818	0.37275	-0.00196	2.88862	0.43903	0.00755	0.82940
0.22051	-0.71896	1.23286	-0.15675	-1.88449	0.35508	-0.00197	2.69754	0.44355	0.00728	0.83298
0.22570	-0.89616	1.23077	-0.15882	-1.85441	0.33840	-0.00197	2.52742	0.44772	0.00727	0.83474
0.23101	-1.05623	1.22992	-0.16108	-1.82925	0.32443	-0.00197	2.38439	0.45119	0.00757	0.83421
0.23645	-1.21153	1.22872	-0.16350	-1.80486	0.31266	-0.00198	2.25476	0.45412	0.00782	0.83406
0.24201	-1.35340	1.22769	-0.16615	-1.78342	0.30380	-0.00198	2.14611	0.45623	0.00796	0.83471
0.24771	-1.47325	1.22791	-0.16909	-1.76776	0.30004	-0.00200	2.06557	0.45726	0.00801	0.83594
0.25354	-1.58063	1.22869	-0.17227	-1.75527	0.29784	-0.00201	2.00109	0.45764	0.00805	0.83717
0.25950	-1.68376	1.22967	-0.17559	-1.74390	0.29697	-0.00202	1.94436	0.45767	0.00799	0.83877
0.26561	-1.78347	1.23126	-0.17914	-1.73416	0.29782	-0.00204	1.89314	0.45750	0.00804	0.83933
0.27186	-1.88762	1.23278	-0.18289	-1.72357	0.30044	-0.00207	1.84036	0.45735	0.00805	0.83964
0.27826	-2.00057	1.23384	-0.18671	-1.71081	0.30208	-0.00209	1.78209	0.45743	0.00794	0.84032
0.28480	-2.12098	1.23389	-0.19078	-1.69552	0.30188	-0.00212	1.71874	0.45762	0.00757	0.84225
0.29150	-2.24841	1.23319	-0.19509	-1.67796	0.29962	-0.00214	1.65073	0.45802	0.00703	0.84480
0.29836	-2.38280	1.23270	-0.19942	-1.65902	0.29779	-0.00217	1.57921	0.45884	0.00656	0.84644

0.30539	-2.52212	1.23221	-0.20384	-1.63899	0.29475	-0.00220	1.50564	0.45996	0.00607	0.84783
0.31257	-2.66028	1.23189	-0.20841	-1.61930	0.29126	-0.00223	1.43582	0.46103	0.00557	0.84903
0.31993	-2.79344	1.23217	-0.21308	-1.60129	0.28769	-0.00225	1.37393	0.46180	0.00528	0.84843
0.32745	-2.91507	1.23300	-0.21796	-1.58610	0.28533	-0.00227	1.32597	0.46171	0.00518	0.84643
0.33517	-3.02573	1.23431	-0.22305	-1.57367	0.28462	-0.00229	1.29080	0.46074	0.00522	0.84340
0.34304	-3.12631	1.23620	-0.22821	-1.56393	0.28487	-0.00231	1.26742	0.45894	0.00539	0.83934
0.35112	-3.21976	1.23823	-0.23338	-1.55581	0.28555	-0.00233	1.25395	0.45625	0.00561	0.83459
0.35938	-3.30453	1.24039	-0.23865	-1.54971	0.28606	-0.00233	1.25047	0.45271	0.00595	0.82900
0.36784	-3.38377	1.24277	-0.24404	-1.54489	0.28762	-0.00234	1.25560	0.44841	0.00638	0.82281
0.37649	-3.46117	1.24528	-0.24954	-1.54039	0.28954	-0.00234	1.26638	0.44360	0.00695	0.81574
0.38536	-3.53849	1.24766	-0.25510	-1.53565	0.29096	-0.00235	1.28061	0.43844	0.00763	0.80803
0.39442	-3.61604	1.24991	-0.26071	-1.53064	0.29229	-0.00235	1.29750	0.43299	0.00839	0.79987
0.40370	-3.69501	1.25230	-0.26628	-1.52545	0.29357	-0.00236	1.31636	0.42734	0.00927	0.79094
0.41321	-3.77640	1.25486	-0.27176	-1.51993	0.29468	-0.00236	1.33528	0.42174	0.01035	0.78092
0.42292	-3.85814	1.25746	-0.27726	-1.51434	0.29676	-0.00237	1.35568	0.41605	0.01158	0.77024
0.43288	-3.94109	1.26032	-0.28270	-1.50873	0.29973	-0.00237	1.37797	0.41024	0.01298	0.75877
0.44307	-4.02580	1.26343	-0.28801	-1.50294	0.30298	-0.00238	1.40113	0.40443	0.01453	0.74659
0.45349	-4.11300	1.26673	-0.29315	-1.49680	0.30635	-0.00239	1.42364	0.39879	0.01621	0.73390
0.46417	-4.20116	1.27027	-0.29812	-1.49066	0.31014	-0.00240	1.44724	0.39319	0.01789	0.72149
0.47508	-4.29015	1.27415	-0.30293	-1.48458	0.31425	-0.00241	1.47248	0.38756	0.01948	0.70995
0.48626	-4.37854	1.27827	-0.30760	-1.47882	0.31882	-0.00243	1.50014	0.38189	0.02094	0.69953
0.49771	-4.46449	1.28248	-0.31218	-1.47365	0.32412	-0.00244	1.53134	0.37614	0.02228	0.69029
0.50942	-4.54804	1.28689	-0.31666	-1.46915	0.33018	-0.00245	1.56671	0.37028	0.02348	0.68218
0.52140	-4.63033	1.29170	-0.32103	-1.46523	0.33679	-0.00247	1.60605	0.36433	0.02456	0.67505
0.53367	-4.71193	1.29682	-0.32532	-1.46168	0.34366	-0.00248	1.64823	0.35841	0.02553	0.66879
0.54624	-4.79218	1.30205	-0.32955	-1.45850	0.35075	-0.00250	1.69249	0.35258	0.02642	0.66337
0.55910	-4.87168	1.30741	-0.33374	-1.45559	0.35797	-0.00251	1.73792	0.34691	0.02721	0.65874
0.57225	-4.95220	1.31312	-0.33782	-1.45275	0.36517	-0.00252	1.78369	0.34143	0.02790	0.65476
0.58569	-5.03473	1.31924	-0.34179	-1.44982	0.37219	-0.00254	1.82869	0.33616	0.02851	0.65137
0.59948	-5.11887	1.32560	-0.34569	-1.44679	0.37901	-0.00255	1.87265	0.33113	0.02905	0.64852
0.61357	-5.20341	1.33197	-0.34954	-1.44368	0.38561	-0.00257	1.91494	0.32637	0.02953	0.64623
0.62802	-5.28918	1.33847	-0.35333	-1.44048	0.39201	-0.00258	1.95589	0.32185	0.02997	0.64446
0.64280	-5.37725	1.34533	-0.35701	-1.43711	0.39818	-0.00259	1.99526	0.31753	0.03035	0.64318
0.65794	-5.46837	1.35262	-0.36057	-1.43351	0.40408	-0.00260	2.03289	0.31340	0.03066	0.64237
0.67340	-5.56144	1.36014	-0.36404	-1.42970	0.40968	-0.00262	2.06831	0.30949	0.03093	0.64204
0.68927	-5.65579	1.36772	-0.36746	-1.42575	0.41502	-0.00263	2.10152	0.30580	0.03118	0.64223
0.70547	-5.75063	1.37529	-0.37082	-1.42171	0.42014	-0.00264	2.13234	0.30236	0.03139	0.64282
0.72207	-5.84741	1.38309	-0.37410	-1.41754	0.42507	-0.00265	2.16118	0.29911	0.03157	0.64359
0.73910	-5.94698	1.39133	-0.37728	-1.41323	0.42982	-0.00267	2.18827	0.29600	0.03171	0.64425
0.75649	-6.04890	1.39997	-0.38033	-1.40879	0.43439	-0.00268	2.21362	0.29303	0.03181	0.64446
0.77429	-6.15223	1.40884	-0.38330	-1.40432	0.43884	-0.00269	2.23745	0.29021	0.03192	0.64385
0.79246	-6.25540	1.41769	-0.38623	-1.39991	0.44318	-0.00270	2.25961	0.28758	0.03206	0.64213
0.81116	-6.35912	1.42657	-0.38914	-1.39555	0.44750	-0.00271	2.28029	0.28510	0.03223	0.63943
0.83022	-6.46300	1.43552	-0.39198	-1.39127	0.45175	-0.00272	2.29943	0.28279	0.03240	0.63613
0.84976	-6.56882	1.44483	-0.39473	-1.38697	0.45596	-0.00274	2.31730	0.28058	0.03254	0.63258
0.86972	-6.67662	1.45455	-0.39736	-1.38267	0.46011	-0.00275	2.33405	0.27847	0.03264	0.62925
0.89023	-6.78677	1.46468	-0.39990	-1.37834	0.46424	-0.00276	2.34985	0.27643	0.03267	0.62657
0.91116	-6.89741	1.47495	-0.40235	-1.37406	0.46833	-0.00277	2.36439	0.27451	0.03266	0.62500
0.93257	-7.00793	1.48520	-0.40476	-1.36989	0.47241	-0.00278	2.37768	0.27271	0.03261	0.62458
0.95456	-7.11837	1.49542	-0.40713	-1.36584	0.47651	-0.00279	2.38977	0.27106	0.03253	0.62527
0.97704	-7.22870	1.50564	-0.40945	-1.36192	0.48064	-0.00280	2.40078	0.26953	0.03241	0.62702
1.00000	-7.33975	1.51604	-0.41166	-1.35808	0.48480	-0.00281	2.41100	0.26808	0.03224	0.62977
1.02354	-7.45267	1.52683	-0.41375	-1.35430	0.48900	-0.00282	2.42083	0.26668	0.03199	0.63345
1.04767	-7.56766	1.53803	-0.41571	-1.35055	0.49325	-0.00283	2.43050	0.26530	0.03169	0.63793
1.07227	-7.68373	1.54952	-0.41753	-1.34687	0.49752	-0.00284	2.44011	0.26394	0.03133	0.64302
1.09745	-7.80048	1.56120	-0.41925	-1.34331	0.50186	-0.00285	2.44970	0.26261	0.03095	0.64856
1.12334	-7.91760	1.57294	-0.42089	-1.33988	0.50629	-0.00286	2.45924	0.26134	0.03056	0.65447
1.14982	-8.03401	1.58459	-0.42246	-1.33664	0.51080	-0.00287	2.46858	0.26014	0.03017	0.66059
1.17675	-8.14908	1.59609	-0.42395	-1.33360	0.51537	-0.00288	2.47773	0.25903	0.02980	0.66677
1.20453	-8.26495	1.60770	-0.42535	-1.33070	0.52007	-0.00289	2.48698	0.25796	0.02943	0.67297
1.23289	-8.38111	1.61944	-0.42663	-1.32795	0.52485	-0.00290	2.49647	0.25691	0.02906	0.67898
1.26183	-8.49810	1.63142	-0.42776	-1.32531	0.52970	-0.00290	2.50639	0.25587	0.02868	0.68478
1.29149	-8.61683	1.64376	-0.42874	-1.32275	0.53464	-0.00291	2.51694	0.25480	0.02827	0.69048
1.32188	-8.73720	1.65645	-0.42957	-1.32026	0.53966	-0.00292	2.52813	0.25371	0.02784	0.69616
1.35300	-8.85882	1.66942	-0.43026	-1.31785	0.54476	-0.00293	2.53986	0.25260	0.02739	0.70190
1.38485	-8.98113	1.68253	-0.43083	-1.31554	0.54991	-0.00294	2.55186	0.25149	0.02693	0.70782
1.41743	-9.10352	1.69567	-0.43129	-1.31334	0.55512	-0.00295	2.56388	0.25042	0.02648	0.71404
1.45075	-9.22550	1.70874	-0.43166	-1.31127	0.56036	-0.00296	2.57567	0.24940	0.02602	0.72060
1.48500	-9.34762	1.72177	-0.43195	-1.30931	0.56567	-0.00296	2.58714	0.24844	0.02558	0.72755
1.51999	-9.46915	1.73469	-0.43214	-1.30748	0.57100	-0.00297	2.59816	0.24755	0.02514	0.73483
1.55569	-9.59035	1.74755	-0.43223	-1.30575	0.57635	-0.00298	2.60876	0.24671	0.02471	0.74243
1.59236	-9.71236	1.76052	-0.43221	-1.30411	0.58176	-0.00299	2.61917	0.24591	0.02427	0.75040
1.62973	-9.83469	1.77359	-0.43205	-1.30255	0.58718	-0.00299	2.62948	0.24514	0.02382	0.75867
1.66806	-9.95841	1.78690	-0.43175	-1.30107	0.59266	-0.00300	2.63993	0.24437	0.02334	0.76728
1.70736	-10.08368	1.80050	-0.43130	-1.29964	0.59818	-0.00301	2.65059	0.24360	0.02284	0.77623
1.74764	-10.21045	1.81438	-0.43069	-1.29826	0.60374	-0.00301	2.66151	0.24281	0.02231	0.78550
1.78859	-10.33755	1.82839	-0.42995	-1.29694	0.60930	-0.00302	2.67255	0.24203	0.02177	0.79501
1.83083	-10.46659	1.84269	-0.42906	-1.29568	0.61492	-0.00303	2.68379	0.24124	0.02122	0.80488
1.87371	-10.59522	1.85698	-0.42806	-1.29448	0.62049	-0.00303	2.69490	0.24048	0.02066	0.81492
1.91791	-10.72509	1.87140	-0.42694	-1.29333	0.62612	-0.00304	2.70592	0.23973	0.02010	0.82522
1.96309	-10.85480	1.88579	-0.42571	-1.29228	0.63173	-0.00304	2.71664	0.23902	0.01956	0.83556

2.00924	-10.98407	1.90008	-0.42439	-1.29131	0.63734	-0.00305	2.72697	0.23836	0.01903	0.84581
2.05634	-11.11270	1.91425	-0.42298	-1.29043	0.64291	-0.00305	2.73682	0.23775	0.01853	0.85584
2.10482	-11.24176	1.92840	-0.42146	-1.28964	0.64850	-0.00306	2.74629	0.23719	0.01804	0.86555
2.15424	-11.37013	1.94242	-0.41985	-1.28893	0.65406	-0.00306	2.75529	0.23669	0.01758	0.87469
2.20507	-11.49908	1.95646	-0.41813	-1.28830	0.65962	-0.00306	2.76398	0.23622	0.01714	0.88321
2.25683	-11.62752	1.97043	-0.41630	-1.28774	0.66514	-0.00307	2.77237	0.23578	0.01671	0.89111
2.31000	-11.75681	1.98449	-0.41434	-1.28725	0.67067	-0.00307	2.78064	0.23537	0.01629	0.89855
2.36463	-11.88708	1.99867	-0.41225	-1.28682	0.67619	-0.00307	2.78889	0.23496	0.01588	0.90565
2.42014	-12.01708	2.01286	-0.41005	-1.28643	0.68166	-0.00308	2.79709	0.23456	0.01547	0.91245
2.47709	-12.14815	2.02720	-0.40771	-1.28610	0.68711	-0.00308	2.80544	0.23416	0.01505	0.91918
2.53550	-12.28023	2.04169	-0.40523	-1.28581	0.69256	-0.00308	2.81398	0.23375	0.01463	0.92600
2.59471	-12.41182	2.05619	-0.40265	-1.28556	0.69793	-0.00308	2.82261	0.23333	0.01421	0.93298
2.65604	-12.54573	2.07096	-0.39991	-1.28537	0.70333	-0.00308	2.83157	0.23290	0.01378	0.94032
2.71887	-12.68026	2.08585	-0.39705	-1.28521	0.70871	-0.00308	2.84073	0.23246	0.01334	0.94800
2.78242	-12.81377	2.10065	-0.39411	-1.28510	0.71399	-0.00308	2.84993	0.23202	0.01291	0.95596
2.84819	-12.94909	2.11562	-0.39101	-1.28505	0.71927	-0.00308	2.85938	0.23157	0.01248	0.96449
2.91545	-13.08446	2.13065	-0.38785	-1.28504	0.72453	-0.00308	2.86886	0.23112	0.01205	0.97349
2.98329	-13.21804	2.14541	-0.38459	-1.28510	0.72963	-0.00308	2.87821	0.23069	0.01163	0.98279
3.05344	-13.35278	2.16032	-0.38126	-1.28519	0.73476	-0.00308	2.88759	0.23026	0.01123	0.99235
3.12598	-13.48897	2.17530	-0.37775	-1.28536	0.73985	-0.00308	2.89694	0.22986	0.01083	1.00201
3.19898	-13.62234	2.18996	-0.37427	-1.28557	0.74482	-0.00307	2.90600	0.22947	0.01046	1.01120
3.27439	-13.75703	2.20468	-0.37063	-1.28586	0.74974	-0.00307	2.91490	0.22911	0.01010	1.01994
3.35121	-13.89030	2.21920	-0.36698	-1.28618	0.75459	-0.00307	2.92359	0.22877	0.00977	1.02793
3.43053	-14.02489	2.23379	-0.36316	-1.28659	0.75939	-0.00307	2.93200	0.22846	0.00945	1.03554
3.51124	-14.15772	2.24814	-0.35936	-1.28702	0.76410	-0.00306	2.94023	0.22817	0.00915	1.04285
3.59324	-14.28986	2.26230	-0.35541	-1.28754	0.76867	-0.00306	2.94800	0.22792	0.00886	1.05027
3.67782	-14.42203	2.27653	-0.35151	-1.28805	0.77325	-0.00305	2.95575	0.22767	0.00859	1.05815
3.76506	-14.55551	2.29062	-0.34729	-1.28870	0.77770	-0.00305	2.96308	0.22748	0.00830	1.06700
3.85356	-14.68715	2.30478	-0.34330	-1.28928	0.78213	-0.00304	2.97041	0.22726	0.00804	1.07643
3.94477	-14.81950	2.31856	-0.33892	-1.29003	0.78639	-0.00303	2.97733	0.22711	0.00776	1.08663
4.03714	-14.95080	2.33261	-0.33475	-1.29072	0.79064	-0.00303	2.98419	0.22694	0.00751	1.09693
4.13223	-15.08155	2.34626	-0.33040	-1.29149	0.79475	-0.00302	2.99099	0.22679	0.00726	1.10738
4.23012	-15.21436	2.36011	-0.32579	-1.29235	0.79880	-0.00301	2.99739	0.22669	0.00700	1.11764
4.32900	-15.34404	2.37397	-0.32159	-1.29309	0.80283	-0.00300	3.00432	0.22650	0.00679	1.12701
4.43066	-15.47446	2.38718	-0.31677	-1.29406	0.80660	-0.00300	3.01031	0.22645	0.00654	1.13599
4.53515	-15.60648	2.40120	-0.31221	-1.29493	0.81047	-0.00299	3.01677	0.22632	0.00633	1.14419
4.64253	-15.73665	2.41481	-0.30770	-1.29581	0.81424	-0.00298	3.02361	0.22616	0.00613	1.15178
4.75059	-15.86628	2.42776	-0.30260	-1.29690	0.81772	-0.00297	3.02897	0.22616	0.00589	1.15893
4.86145	-15.99650	2.44175	-0.29809	-1.29779	0.82135	-0.00296	3.03576	0.22599	0.00571	1.16527
4.97760	-16.12686	2.45512	-0.29332	-1.29878	0.82487	-0.00295	3.04246	0.22586	0.00551	1.17139
5.09424	-16.25713	2.46795	-0.28790	-1.29998	0.82812	-0.00294	3.04733	0.22592	0.00528	1.17724
5.21376	-16.38780	2.48203	-0.28330	-1.30093	0.83152	-0.00293	3.05444	0.22572	0.00511	1.18238
5.33618	-16.51462	2.49503	-0.27863	-1.30193	0.83473	-0.00292	3.06132	0.22556	0.00493	1.18736
5.46150	-16.64360	2.50726	-0.27289	-1.30326	0.83772	-0.00291	3.06537	0.22569	0.00469	1.19256
5.58971	-16.77428	2.52108	-0.26794	-1.30434	0.84082	-0.00290	3.07195	0.22556	0.00451	1.19733
5.72082	-16.90027	2.53449	-0.26363	-1.30526	0.84384	-0.00288	3.08024	0.22525	0.00436	1.20199
5.85823	-17.02867	2.54613	-0.25768	-1.30669	0.84664	-0.00287	3.08372	0.22544	0.00411	1.20755
5.99520	-17.15774	2.55884	-0.25204	-1.30801	0.84940	-0.00286	3.08810	0.22552	0.00389	1.21296
6.13497	-17.28485	2.57284	-0.24776	-1.30894	0.85218	-0.00285	3.09730	0.22513	0.00376	1.21797
6.28141	-17.40851	2.58471	-0.24280	-1.31012	0.85481	-0.00283	3.10370	0.22503	0.00358	1.22364
6.42674	-17.53131	2.59517	-0.23647	-1.31171	0.85723	-0.00282	3.10438	0.22543	0.00330	1.22985
6.57895	-17.66066	2.60803	-0.23087	-1.31305	0.85976	-0.00281	3.10933	0.22546	0.00310	1.23590
6.73401	-17.78660	2.62202	-0.22685	-1.31397	0.86219	-0.00280	3.12065	0.22491	0.00300	1.24148
6.89180	-17.90349	2.63236	-0.22178	-1.31525	0.86445	-0.00278	3.12524	0.22495	0.00280	1.24779
7.05716	-18.02632	2.64177	-0.21482	-1.31706	0.86676	-0.00277	3.12258	0.22562	0.00249	1.25496
7.22022	-18.14898	2.65315	-0.20900	-1.31853	0.86895	-0.00276	3.12522	0.22582	0.00227	1.26133
7.39098	-18.27490	2.66689	-0.20471	-1.31955	0.87105	-0.00274	3.13623	0.22533	0.00217	1.26697
7.56430	-18.38848	2.67753	-0.20052	-1.32062	0.87299	-0.00273	3.14444	0.22505	0.00204	1.27256
7.73994	-18.49675	2.68373	-0.19356	-1.32254	0.87509	-0.00272	3.13664	0.22607	0.00169	1.27904
7.92393	-18.61451	2.69237	-0.18671	-1.32437	0.87712	-0.00271	3.13218	0.22682	0.00138	1.28495
8.11030	-18.73486	2.70310	-0.18087	-1.32589	0.87908	-0.00270	3.13378	0.22708	0.00117	1.28990
8.29876	-18.85498	2.71614	-0.17701	-1.32684	0.88080	-0.00268	3.14584	0.22650	0.00110	1.29358
8.49618	-18.95900	2.72334	-0.17212	-1.32821	0.88258	-0.00267	3.14661	0.22678	0.00090	1.29799
8.69565	-19.05320	2.72528	-0.16450	-1.33048	0.88448	-0.00267	3.13006	0.22842	0.00046	1.30364
8.90472	-19.15899	2.73063	-0.15734	-1.33256	0.88623	-0.00266	3.12047	0.22953	0.00009	1.30876
9.11577	-19.26570	2.73710	-0.15073	-1.33445	0.88789	-0.00265	3.11402	0.23037	-0.00023	1.31352
9.32836	-19.38359	2.74823	-0.14552	-1.33584	0.88963	-0.00263	3.11696	0.23048	-0.00040	1.31738
9.54198	-19.48526	2.75642	-0.14145	-1.33697	0.89116	-0.00262	3.12056	0.23050	-0.00053	1.32129
9.76563	-19.55090	2.75260	-0.13513	-1.33906	0.89223	-0.00262	3.10418	0.23201	-0.00097	1.32764
10.00000	-19.61766	2.74816	-0.12797	-1.34134	0.89291	-0.00261	3.08750	0.23355	-0.00146	1.33494

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Low stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 15 - 30 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	2.44518	2.30522	-0.10459	-3.56510	1.24807	-0.00002	15.50057	0.23639	-0.00601	0.45190
PGV	11.47374	1.53189	-0.13108	-3.97989	1.15385	0.00024	21.58279	0.22355	0.00649	0.41889
PGA	5.00948	1.43707	-0.08093	-3.20911	0.62592	-0.00079	9.51031	0.38077	-0.01866	0.73856
0.01000	5.08047	1.44294	-0.07951	-3.21604	0.61214	-0.00079	9.55790	0.38324	0.00317	0.67433
0.01024	5.09390	1.44340	-0.07928	-3.21823	0.61166	-0.00079	9.57217	0.38329	0.00316	0.67480
0.01048	5.10886	1.44390	-0.07902	-3.22068	0.61116	-0.00079	9.58842	0.38333	0.00314	0.67525
0.01072	5.12555	1.44445	-0.07875	-3.22343	0.61063	-0.00079	9.60691	0.38336	0.00311	0.67568
0.01097	5.14425	1.44506	-0.07845	-3.22652	0.61007	-0.00078	9.62800	0.38339	0.00309	0.67610
0.01123	5.16502	1.44573	-0.07812	-3.22997	0.60946	-0.00078	9.65172	0.38341	0.00306	0.67651
0.01150	5.18806	1.44648	-0.07776	-3.23380	0.60880	-0.00078	9.67830	0.38344	0.00303	0.67692
0.01177	5.21375	1.44731	-0.07737	-3.23808	0.60807	-0.00077	9.70830	0.38345	0.00299	0.67735
0.01205	5.24257	1.44823	-0.07694	-3.24289	0.60728	-0.00077	9.74235	0.38346	0.00294	0.67780
0.01233	5.27457	1.44926	-0.07647	-3.24824	0.60641	-0.00077	9.78039	0.38347	0.00289	0.67826
0.01262	5.30997	1.45041	-0.07595	-3.25417	0.60544	-0.00076	9.82261	0.38348	0.00284	0.67874
0.01292	5.34929	1.45171	-0.07538	-3.26075	0.60437	-0.00076	9.86974	0.38350	0.00279	0.67926
0.01322	5.39241	1.45316	-0.07474	-3.26794	0.60317	-0.00075	9.92150	0.38353	0.00273	0.67984
0.01353	5.43837	1.45475	-0.07402	-3.27555	0.60179	-0.00075	9.97609	0.38359	0.00266	0.68050
0.01385	5.48738	1.45652	-0.07321	-3.28362	0.60016	-0.00074	10.03344	0.38371	0.00258	0.68125
0.01417	5.53927	1.45851	-0.07233	-3.29211	0.59820	-0.00074	10.09288	0.38388	0.00250	0.68214
0.01451	5.59175	1.46069	-0.07135	-3.30058	0.59590	-0.00073	10.15027	0.38418	0.00241	0.68318
0.01485	5.64385	1.46304	-0.07028	-3.30880	0.59324	-0.00073	10.20375	0.38461	0.00231	0.68434
0.01520	5.69878	1.46563	-0.06911	-3.31735	0.59018	-0.00072	10.25846	0.38513	0.00221	0.68564
0.01556	5.75841	1.46854	-0.06781	-3.32661	0.58659	-0.00072	10.31705	0.38574	0.00210	0.68714
0.01592	5.81678	1.47181	-0.06635	-3.33547	0.58234	-0.00072	10.36855	0.38657	0.00198	0.68899
0.01630	5.86424	1.47534	-0.06472	-3.34216	0.57725	-0.00072	10.39580	0.38780	0.00183	0.69122
0.01668	5.89760	1.47906	-0.06294	-3.34600	0.57120	-0.00072	10.39458	0.38944	0.00169	0.69361
0.01707	5.91784	1.48289	-0.06105	-3.34701	0.56397	-0.00073	10.36919	0.39147	0.00159	0.69593
0.01748	5.92282	1.48682	-0.05902	-3.34477	0.55527	-0.00074	10.31663	0.39392	0.00154	0.69805
0.01789	5.91957	1.49091	-0.05683	-3.34077	0.54559	-0.00076	10.24785	0.39667	0.00153	0.69999
0.01831	5.92359	1.49543	-0.05461	-3.33813	0.53595	-0.00077	10.18696	0.39944	0.00159	0.70176
0.01874	5.93091	1.50070	-0.05245	-3.33637	0.52663	-0.00078	10.12560	0.40236	0.00172	0.70327
0.01918	5.91047	1.50651	-0.05023	-3.32975	0.51691	-0.00080	10.01395	0.40597	0.00188	0.70479
0.01963	5.81494	1.51180	-0.04778	-3.30912	0.50514	-0.00084	9.77902	0.41100	0.00198	0.70676
0.02009	5.63683	1.51572	-0.04506	-3.27275	0.49089	-0.00090	9.41523	0.41750	0.00204	0.70893
0.02057	5.44071	1.51875	-0.04228	-3.23280	0.47619	-0.00095	9.03082	0.42429	0.00219	0.71037
0.02105	5.29779	1.52218	-0.03972	-3.20313	0.46389	-0.00100	8.73817	0.43002	0.00252	0.71077
0.02154	5.21332	1.52678	-0.03749	-3.18509	0.45516	-0.00103	8.54577	0.43453	0.00301	0.71034
0.02205	5.12153	1.53188	-0.03545	-3.16610	0.44782	-0.00107	8.35277	0.43910	0.00360	0.70920
0.02257	4.96163	1.53548	-0.03347	-3.13371	0.43764	-0.00113	8.06479	0.44495	0.00413	0.70817
0.02310	4.75541	1.53696	-0.03163	-3.09159	0.42296	-0.00118	7.71164	0.45177	0.00445	0.70801
0.02364	4.55289	1.53802	-0.02998	-3.05048	0.40605	-0.00122	7.36393	0.45869	0.00469	0.70809
0.02420	4.38803	1.54046	-0.02841	-3.01825	0.39117	-0.00125	7.07237	0.46491	0.00500	0.70750
0.02477	4.27492	1.54426	-0.02688	-2.99722	0.38172	-0.00127	6.86279	0.46980	0.00537	0.70642
0.02535	4.18657	1.54789	-0.02546	-2.98089	0.37698	-0.00130	6.69932	0.47375	0.00575	0.70539
0.02595	4.07721	1.55001	-0.02416	-2.95970	0.37306	-0.00133	6.51545	0.47790	0.00618	0.70414
0.02656	3.92730	1.55043	-0.02297	-2.92992	0.36624	-0.00137	6.28129	0.48293	0.00673	0.70220
0.02719	3.74245	1.54967	-0.02183	-2.89304	0.35605	-0.00141	6.00561	0.48885	0.00730	0.69985
0.02783	3.54502	1.54830	-0.02072	-2.85364	0.34569	-0.00144	5.72048	0.49511	0.00784	0.69734
0.02848	3.36682	1.54674	-0.01983	-2.81803	0.33818	-0.00148	5.46476	0.50086	0.00852	0.69382
0.02915	3.23575	1.54565	-0.01935	-2.79194	0.33396	-0.00150	5.26886	0.50540	0.00955	0.68814
0.02984	3.14783	1.54516	-0.01927	-2.77440	0.33245	-0.00152	5.13028	0.50871	0.01082	0.68110
0.03054	3.06824	1.54456	-0.01933	-2.75785	0.33217	-0.00154	5.01366	0.51153	0.01197	0.67497
0.03126	2.96584	1.54339	-0.01927	-2.73621	0.32884	-0.00157	4.87876	0.51492	0.01286	0.67046
0.03199	2.83509	1.54168	-0.01905	-2.70903	0.31883	-0.00158	4.70974	0.51938	0.01346	0.66745
0.03275	2.67215	1.53936	-0.01869	-2.67593	0.30386	-0.00159	4.50016	0.52508	0.01370	0.66634
0.03352	2.47016	1.53573	-0.01826	-2.63533	0.28901	-0.00161	4.24769	0.53198	0.01367	0.66692
0.03430	2.26592	1.53040	-0.01795	-2.59380	0.27938	-0.00164	3.99903	0.53862	0.01356	0.66814
0.03511	2.13454	1.52435	-0.01811	-2.56572	0.27843	-0.00166	3.83687	0.54240	0.01350	0.66916
0.03594	2.12084	1.51896	-0.01891	-2.55997	0.28646	-0.00167	3.80760	0.54175	0.01349	0.66986
0.03678	2.20210	1.51480	-0.02023	-2.57232	0.29942	-0.00167	3.88749	0.53765	0.01350	0.67034
0.03765	2.31332	1.51177	-0.02169	-2.59049	0.31076	-0.00166	4.00614	0.53272	0.01361	0.67002
0.03854	2.39783	1.50966	-0.02305	-2.60385	0.31615	-0.00164	4.09870	0.52914	0.01399	0.66808
0.03944	2.43879	1.50794	-0.02428	-2.60901	0.31576	-0.00163	4.14431	0.52734	0.01476	0.66394
0.04037	2.43840	1.50615	-0.02532	-2.60613	0.31326	-0.00162	4.14703	0.52695	0.01586	0.65830
0.04132	2.39156	1.50425	-0.02595	-2.59426	0.31198	-0.00163	4.10353	0.52795	0.01692	0.65350
0.04229	2.29808	1.50227	-0.02620	-2.57355	0.31218	-0.00166	4.01161	0.53039	0.01752	0.65166
0.04329	2.18057	1.50029	-0.02641	-2.54859	0.31285	-0.00170	3.89171	0.53371	0.01756	0.65298
0.04431	2.07524	1.49875	-0.02690	-2.52662	0.31366	-0.00174	3.78102	0.53683	0.01726	0.65604
0.04535	1.99717	1.49787	-0.02769	-2.51074	0.31459	-0.00176	3.69564	0.53919	0.01692	0.65880

0.04642	1.92375	1.49635	-0.02863	-2.49610	0.31410	-0.00178	3.61055	0.54136	0.01678	0.65976
0.04751	1.81769	1.49173	-0.02964	-2.47394	0.30920	-0.00179	3.48533	0.54445	0.01690	0.65859
0.04863	1.66432	1.48305	-0.03055	-2.44039	0.29849	-0.00179	3.30806	0.54906	0.01715	0.65643
0.04977	1.47852	1.47187	-0.03117	-2.39854	0.28402	-0.00179	3.10282	0.55489	0.01730	0.65509
0.05094	1.29265	1.46125	-0.03140	-2.35615	0.27093	-0.00180	2.91045	0.56092	0.01731	0.65511
0.05214	1.13845	1.45380	-0.03134	-2.32126	0.26441	-0.00182	2.76361	0.56591	0.01735	0.65516
0.05337	1.04608	1.45030	-0.03139	-2.30075	0.26766	-0.00186	2.68566	0.56843	0.01756	0.65403
0.05462	1.03612	1.45017	-0.03205	-2.29871	0.28015	-0.00189	2.68727	0.56752	0.01796	0.65159
0.05591	1.10012	1.45229	-0.03357	-2.31299	0.29763	-0.00191	2.75484	0.56368	0.01850	0.64840
0.05722	1.20293	1.45516	-0.03584	-2.33565	0.31473	-0.00191	2.85519	0.55850	0.01894	0.64607
0.05857	1.30000	1.45705	-0.03851	-2.35675	0.32671	-0.00190	2.94763	0.55370	0.01916	0.64550
0.05995	1.36097	1.45669	-0.04127	-2.36966	0.33133	-0.00188	3.00385	0.55024	0.01934	0.64522
0.06136	1.37797	1.45374	-0.04385	-2.37248	0.33001	-0.00185	3.01935	0.54812	0.01970	0.64359
0.06280	1.36498	1.44873	-0.04619	-2.36781	0.32711	-0.00183	3.01341	0.54658	0.02025	0.64044
0.06428	1.35535	1.44276	-0.04854	-2.36230	0.32727	-0.00183	3.02187	0.54430	0.02079	0.63730
0.06579	1.37007	1.43661	-0.05112	-2.36036	0.33217	-0.00183	3.06394	0.54069	0.02103	0.63617
0.06734	1.40227	1.43039	-0.05392	-2.36098	0.33969	-0.00183	3.12820	0.53632	0.02081	0.63835
0.06893	1.43435	1.42423	-0.05676	-2.36134	0.34605	-0.00183	3.19137	0.53223	0.02012	0.64360
0.07055	1.44883	1.41885	-0.05947	-2.35911	0.34851	-0.00182	3.23047	0.52938	0.01930	0.64975
0.07221	1.42679	1.41474	-0.06188	-2.35147	0.34652	-0.00180	3.22296	0.52861	0.01872	0.65436
0.07391	1.35848	1.41164	-0.06385	-2.33672	0.34108	-0.00180	3.15840	0.53012	0.01851	0.65646
0.07565	1.24940	1.40860	-0.06541	-2.31530	0.33318	-0.00179	3.04455	0.53352	0.01855	0.65676
0.07743	1.11021	1.40458	-0.06667	-2.28812	0.32378	-0.00179	2.89762	0.53815	0.01863	0.65645
0.07925	0.95508	1.39937	-0.06772	-2.25714	0.31446	-0.00180	2.73906	0.54327	0.01867	0.65616
0.08111	0.80231	1.39378	-0.06868	-2.22614	0.30628	-0.00182	2.59009	0.54817	0.01865	0.65595
0.08302	0.66773	1.38847	-0.06967	-2.19866	0.29919	-0.00184	2.46473	0.55228	0.01857	0.65598
0.08498	0.56345	1.38359	-0.07076	-2.17714	0.29378	-0.00185	2.37239	0.55504	0.01828	0.65741
0.08697	0.48610	1.37885	-0.07200	-2.16064	0.29091	-0.00185	2.30925	0.55644	0.01772	0.66067
0.08902	0.42821	1.37397	-0.07344	-2.14732	0.29127	-0.00185	2.26882	0.55669	0.01697	0.66554
0.09112	0.38672	1.36896	-0.07514	-2.13645	0.29560	-0.00186	2.24986	0.55579	0.01607	0.67181
0.09326	0.34582	1.36380	-0.07698	-2.12484	0.30282	-0.00189	2.24005	0.55437	0.01502	0.67918
0.09545	0.29603	1.35880	-0.07888	-2.11109	0.31179	-0.00193	2.23006	0.55295	0.01394	0.68684
0.09770	0.25931	1.35448	-0.08111	-2.10019	0.32239	-0.00198	2.23737	0.55061	0.01304	0.69357
0.10000	0.26320	1.35115	-0.08403	-2.09811	0.33378	-0.00202	2.28448	0.54620	0.01253	0.69810
0.10235	0.30092	1.34842	-0.08761	-2.10357	0.34384	-0.00203	2.36332	0.54020	0.01258	0.69940
0.10476	0.34254	1.34539	-0.09147	-2.11027	0.35075	-0.00203	2.44502	0.53406	0.01316	0.69746
0.10723	0.36434	1.34144	-0.09522	-2.11308	0.35409	-0.00201	2.50687	0.52876	0.01402	0.69364
0.10975	0.35699	1.33651	-0.09871	-2.11004	0.35399	-0.00199	2.53854	0.52471	0.01482	0.68996
0.11233	0.32942	1.33115	-0.10186	-2.10317	0.35095	-0.00197	2.54743	0.52167	0.01526	0.68804
0.11498	0.30497	1.32639	-0.10462	-2.09770	0.34712	-0.00194	2.55683	0.51871	0.01518	0.68896
0.11768	0.30013	1.32312	-0.10708	-2.09758	0.34570	-0.00192	2.58495	0.51511	0.01460	0.69265
0.12045	0.32482	1.32184	-0.10940	-2.10523	0.34966	-0.00189	2.64379	0.51038	0.01384	0.69751
0.12328	0.38277	1.32234	-0.11171	-2.12130	0.36055	-0.00187	2.73900	0.50427	0.01314	0.70220
0.12619	0.46723	1.32376	-0.11422	-2.14357	0.37689	-0.00185	2.86614	0.49701	0.01257	0.70625
0.12916	0.55468	1.32512	-0.11698	-2.16643	0.39455	-0.00183	3.00049	0.48968	0.01207	0.70969
0.13219	0.62380	1.32559	-0.12003	-2.18481	0.40927	-0.00182	3.11802	0.48315	0.01163	0.71249
0.13531	0.65829	1.32481	-0.12337	-2.19512	0.41912	-0.00181	3.19932	0.47801	0.01124	0.71461
0.13849	0.65037	1.32273	-0.12689	-2.19572	0.42432	-0.00181	3.23596	0.47443	0.01082	0.71646
0.14175	0.59719	1.31958	-0.13035	-2.18632	0.42580	-0.00182	3.22406	0.47250	0.01033	0.71855
0.14508	0.50397	1.31583	-0.13359	-2.16835	0.42446	-0.00184	3.16784	0.47217	0.00971	0.72146
0.14850	0.38844	1.31216	-0.13663	-2.14573	0.42173	-0.00187	3.08713	0.47292	0.00891	0.72594
0.15199	0.26822	1.30919	-0.13954	-2.12232	0.41956	-0.00190	3.00245	0.47415	0.00788	0.73242
0.15557	0.14625	1.30717	-0.14235	-2.09895	0.41902	-0.00194	2.91702	0.47576	0.00676	0.74014
0.15923	0.02018	1.30618	-0.14503	-2.07541	0.42004	-0.00199	2.82765	0.47786	0.00579	0.74732
0.16298	-0.11161	1.30607	-0.14754	-2.05149	0.42173	-0.00204	2.73203	0.48051	0.00513	0.75268
0.16681	-0.24569	1.30650	-0.14987	-2.02769	0.42360	-0.00210	2.63399	0.48348	0.00473	0.75629
0.17074	-0.37846	1.30709	-0.15203	-2.00449	0.42546	-0.00215	2.53679	0.48656	0.00452	0.75876
0.17475	-0.50164	1.30780	-0.15400	-1.98349	0.42807	-0.00220	2.44873	0.48934	0.00442	0.76067
0.17887	-0.60636	1.30903	-0.15572	-1.96680	0.43250	-0.00224	2.37893	0.49144	0.00442	0.76225
0.18307	-0.69036	1.31118	-0.15715	-1.95518	0.43868	-0.00227	2.32950	0.49282	0.00452	0.76362
0.18738	-0.75946	1.31451	-0.15825	-1.94762	0.44609	-0.00229	2.29389	0.49382	0.00470	0.76491
0.19179	-0.81856	1.31902	-0.15902	-1.94302	0.45385	-0.00231	2.26723	0.49474	0.00491	0.76638
0.19631	-0.86908	1.32443	-0.15954	-1.94069	0.46144	-0.00232	2.24844	0.49558	0.00506	0.76847
0.20092	-0.91216	1.33031	-0.15997	-1.93996	0.46874	-0.00232	2.23652	0.49630	0.00511	0.77122
0.20565	-0.94392	1.33628	-0.16044	-1.94116	0.47626	-0.00233	2.23581	0.49658	0.00504	0.77483
0.21049	-0.96222	1.34196	-0.16108	-1.94425	0.48379	-0.00233	2.24886	0.49622	0.00477	0.77965
0.21544	-0.96511	1.34731	-0.16193	-1.94968	0.49206	-0.00232	2.27716	0.49511	0.00432	0.78539
0.22051	-0.94716	1.35254	-0.16302	-1.95880	0.50189	-0.00232	2.32695	0.49295	0.00383	0.79119
0.22570	-0.89978	1.35787	-0.16442	-1.97366	0.51410	-0.00231	2.40827	0.48933	0.00340	0.79630
0.23101	-0.81473	1.36345	-0.16617	-1.99613	0.52942	-0.00229	2.53074	0.48394	0.00310	0.80029
0.23645	-0.69248	1.36923	-0.16832	-2.02605	0.54721	-0.00226	2.69596	0.47698	0.00289	0.80354
0.24201	-0.54246	1.37506	-0.17078	-2.06144	0.56574	-0.00222	2.89640	0.46906	0.00273	0.80627
0.24771	-0.37445	1.38085	-0.17344	-2.10031	0.58405	-0.00217	3.12299	0.46072	0.00260	0.80873
0.25354	-0.20107	1.38634	-0.17624	-2.13999	0.60082	-0.00211	3.36164	0.45253	0.00247	0.81114
0.25950	-0.04279	1.39108	-0.17903	-2.17613	0.61450	-0.00205	3.58735	0.44520	0.00231	0.81357
0.26561	0.07893	1.39447	-0.18182	-2.20399	0.62328	-0.00200	3.77139	0.43934	0.00212	0.81599
0.27186	0.15653	1.39609	-0.18459	-2.22177	0.62703	-0.00195	3.90358	0.43491	0.00191	0.81831
0.27826	0.19275	1.39580	-0.18742	-2.22987	0.62598	-0.00190	3.98697	0.43159	0.00173	0.82016
0.28480	0.19353	1.39388	-0.19037	-2.22984	0.62119	-0.00186	4.02865	0.42910	0.00168	0.82101
0.29150	0.16779	1.39067	-0.19341	-2.22370	0.61359	-0.00182	4.04136	0.42707	0.00178	0.82098
0.29836	0.12663	1.38667	-0.19652	-2.21419	0.60446	-0.00179	4.03888	0.42517	0.00195	0.82061

0.30539	0.07493	1.38233	-0.19971	-2.20277	0.59390	-0.00175	4.02597	0.42334	0.00215	0.82016
0.31257	0.02017	1.37800	-0.20301	-2.19124	0.58284	-0.00171	4.01198	0.42137	0.00233	0.82005
0.31993	-0.04142	1.37373	-0.20641	-2.17878	0.57152	-0.00168	3.99368	0.41937	0.00245	0.82047
0.32745	-0.11260	1.36969	-0.20986	-2.16508	0.56028	-0.00165	3.96780	0.41742	0.00244	0.82162
0.33517	-0.19082	1.36552	-0.21349	-2.15044	0.54944	-0.00162	3.93746	0.41534	0.00221	0.82418
0.34304	-0.27784	1.36108	-0.21735	-2.13443	0.53880	-0.00160	3.90068	0.41313	0.00175	0.82819
0.35112	-0.37711	1.35640	-0.22145	-2.11641	0.52856	-0.00159	3.85445	0.41083	0.00113	0.83328
0.35938	-0.50015	1.35108	-0.22577	-2.09355	0.51775	-0.00158	3.78300	0.40889	0.00030	0.83985
0.36784	-0.66023	1.34485	-0.23028	-2.06294	0.50552	-0.00159	3.66948	0.40774	-0.00066	0.84760
0.37649	-0.85603	1.33801	-0.23500	-2.02506	0.49208	-0.00161	3.51530	0.40746	-0.00164	0.85574
0.38536	-1.08433	1.33076	-0.23999	-1.98062	0.47711	-0.00164	3.32450	0.40814	-0.00251	0.86355
0.39442	-1.33432	1.32364	-0.24517	-1.93227	0.46139	-0.00169	3.11260	0.40953	-0.00318	0.87036
0.40370	-1.59046	1.31723	-0.25050	-1.88356	0.44670	-0.00173	2.90232	0.41108	-0.00367	0.87617
0.41321	-1.84478	1.31153	-0.25601	-1.83598	0.43265	-0.00179	2.70245	0.41258	-0.00399	0.88103
0.42292	-2.09112	1.30664	-0.26164	-1.79088	0.41920	-0.00184	2.51911	0.41382	-0.00417	0.88513
0.43288	-2.32880	1.30297	-0.26729	-1.74897	0.40556	-0.00189	2.35239	0.41481	-0.00419	0.88833
0.44307	-2.56381	1.30076	-0.27282	-1.70911	0.39216	-0.00194	2.19410	0.41602	-0.00397	0.88986
0.45349	-2.80042	1.29954	-0.27838	-1.66980	0.37959	-0.00200	2.03876	0.41769	-0.00349	0.88973
0.46417	-3.03806	1.29927	-0.28385	-1.63129	0.36701	-0.00206	1.88745	0.41978	-0.00269	0.88736
0.47508	-3.27341	1.29992	-0.28922	-1.59427	0.35372	-0.00212	1.74496	0.42203	-0.00155	0.88255
0.48626	-3.50270	1.30134	-0.29450	-1.55937	0.34080	-0.00217	1.61573	0.42410	-0.00013	0.87575
0.49771	-3.72086	1.30353	-0.29957	-1.52768	0.33025	-0.00222	1.50514	0.42555	0.00152	0.86722
0.50942	-3.92610	1.30641	-0.30449	-1.49943	0.32238	-0.00227	1.41493	0.42604	0.00337	0.85711
0.52140	-4.11656	1.31012	-0.30918	-1.47518	0.31739	-0.00233	1.34682	0.42523	0.00537	0.84570
0.53367	-4.29218	1.31454	-0.31361	-1.45494	0.31459	-0.00237	1.29958	0.42300	0.00745	0.83336
0.54624	-4.45012	1.31937	-0.31795	-1.43899	0.31383	-0.00241	1.27379	0.41919	0.00962	0.82027
0.55910	-4.59208	1.32456	-0.32223	-1.42688	0.31507	-0.00244	1.26697	0.41396	0.01188	0.80637
0.57225	-4.72171	1.33019	-0.32643	-1.41777	0.31827	-0.00247	1.27598	0.40757	0.01419	0.79183
0.58569	-4.84062	1.33627	-0.33052	-1.41127	0.32315	-0.00249	1.29939	0.40019	0.01647	0.77709
0.59948	-4.94926	1.34254	-0.33450	-1.40714	0.32960	-0.00251	1.33666	0.39193	0.01865	0.76266
0.61357	-5.04862	1.34870	-0.33841	-1.40477	0.33724	-0.00253	1.38519	0.38310	0.02070	0.74910
0.62802	-5.14180	1.35481	-0.34226	-1.40354	0.34562	-0.00255	1.44256	0.37397	0.02258	0.73661
0.64280	-5.23208	1.36109	-0.34598	-1.40291	0.35437	-0.00257	1.50535	0.36486	0.02428	0.72528
0.65794	-5.32308	1.36770	-0.34956	-1.40228	0.36311	-0.00258	1.56981	0.35607	0.02583	0.71498
0.67340	-5.41517	1.37445	-0.35300	-1.40135	0.37156	-0.00260	1.63347	0.34775	0.02724	0.70576
0.68927	-5.50750	1.38116	-0.35638	-1.40022	0.37986	-0.00261	1.69690	0.33983	0.02851	0.69767
0.70547	-5.59938	1.38775	-0.35967	-1.39890	0.38805	-0.00262	1.75942	0.33234	0.02963	0.69071
0.72207	-5.69229	1.39444	-0.36286	-1.39735	0.39622	-0.00264	1.82086	0.32525	0.03060	0.68474
0.73910	-5.78762	1.40147	-0.36595	-1.39547	0.40428	-0.00265	1.88009	0.31860	0.03138	0.67960
0.75649	-5.88592	1.40884	-0.36889	-1.39310	0.41205	-0.00267	1.93522	0.31247	0.03199	0.67499
0.77429	-5.98667	1.41641	-0.37174	-1.39029	0.41952	-0.00269	1.98588	0.30684	0.03248	0.67044
0.79246	-6.08785	1.42395	-0.37454	-1.38723	0.42673	-0.00270	2.03250	0.30168	0.03289	0.66555
0.81116	-6.18952	1.43148	-0.37733	-1.38406	0.43386	-0.00272	2.07647	0.29686	0.03325	0.66028
0.83022	-6.29068	1.43907	-0.38006	-1.38095	0.44092	-0.00273	2.11844	0.29238	0.03355	0.65486
0.84976	-6.39287	1.44699	-0.38272	-1.37788	0.44804	-0.00275	2.15921	0.28815	0.03380	0.64950
0.86972	-6.49653	1.45535	-0.38528	-1.37482	0.45515	-0.00277	2.19846	0.28416	0.03398	0.64450
0.89023	-6.60219	1.46416	-0.38775	-1.37174	0.46224	-0.00278	2.23664	0.28038	0.03409	0.64022
0.91116	-6.70780	1.47318	-0.39013	-1.36880	0.46930	-0.00280	2.27422	0.27678	0.03416	0.63710
0.93257	-6.81271	1.48223	-0.39245	-1.36604	0.47632	-0.00282	2.31150	0.27337	0.03419	0.63513
0.95456	-6.91691	1.49129	-0.39472	-1.36349	0.48335	-0.00283	2.34865	0.27012	0.03418	0.63428
0.97704	-7.02065	1.50038	-0.39691	-1.36110	0.49031	-0.00284	2.38506	0.26706	0.03414	0.63451
1.00000	-7.12522	1.50970	-0.39899	-1.35873	0.49716	-0.00286	2.41983	0.26420	0.03405	0.63574
1.02354	-7.23203	1.51944	-0.40094	-1.35632	0.50389	-0.00287	2.45286	0.26151	0.03391	0.63789
1.04767	-7.34145	1.52967	-0.40274	-1.35384	0.51050	-0.00289	2.48406	0.25900	0.03371	0.64083
1.07227	-7.45255	1.54027	-0.40439	-1.35133	0.51695	-0.00290	2.51349	0.25665	0.03347	0.64440
1.09745	-7.56484	1.55113	-0.40593	-1.34884	0.52330	-0.00291	2.54149	0.25444	0.03321	0.64845
1.12334	-7.67774	1.56210	-0.40738	-1.34643	0.52960	-0.00293	2.56856	0.25236	0.03295	0.65291
1.14982	-7.78995	1.57303	-0.40876	-1.34417	0.53585	-0.00294	2.59482	0.25041	0.03269	0.65764
1.17675	-7.90073	1.58383	-0.41006	-1.34211	0.54205	-0.00295	2.62026	0.24860	0.03244	0.66250
1.20453	-8.01218	1.59477	-0.41127	-1.34021	0.54830	-0.00296	2.64516	0.24690	0.03219	0.66745
1.23289	-8.12398	1.60588	-0.41237	-1.33842	0.55453	-0.00297	2.66904	0.24534	0.03193	0.67232
1.26183	-8.23680	1.61727	-0.41332	-1.33673	0.56074	-0.00298	2.69176	0.24390	0.03164	0.67708
1.29149	-8.35162	1.62908	-0.41413	-1.33507	0.56695	-0.00299	2.71340	0.24257	0.03132	0.68184
1.32188	-8.46841	1.64131	-0.41479	-1.33345	0.57314	-0.00301	2.73398	0.24134	0.03096	0.68670
1.35300	-8.58671	1.65387	-0.41531	-1.33188	0.57933	-0.00302	2.75369	0.24021	0.03056	0.69174
1.38485	-8.70575	1.66664	-0.41571	-1.33041	0.58552	-0.00303	2.77276	0.23916	0.03014	0.69707
1.41743	-8.82473	1.67947	-0.41601	-1.32909	0.59172	-0.00303	2.79141	0.23820	0.02970	0.70281
1.45075	-8.94302	1.69226	-0.41623	-1.32795	0.59794	-0.00304	2.80971	0.23731	0.02926	0.70899
1.48500	-9.06105	1.70502	-0.41636	-1.32699	0.60421	-0.00305	2.82781	0.23651	0.02880	0.71564
1.51999	-9.17812	1.71768	-0.41641	-1.32621	0.61051	-0.00306	2.84551	0.23579	0.02835	0.72270
1.55569	-9.29454	1.73029	-0.41637	-1.32559	0.61680	-0.00307	2.86264	0.23515	0.02788	0.73015
1.59236	-9.41161	1.74302	-0.41621	-1.32507	0.62312	-0.00308	2.87917	0.23458	0.02740	0.73803
1.62973	-9.52904	1.75586	-0.41593	-1.32462	0.62941	-0.00308	2.89486	0.23408	0.02690	0.74625
1.66806	-9.64814	1.76897	-0.41551	-1.32418	0.63568	-0.00309	2.90954	0.23365	0.02637	0.75485
1.70736	-9.76918	1.78239	-0.41493	-1.32372	0.64191	-0.00310	2.92311	0.23327	0.02581	0.76384
1.74764	-9.89219	1.79612	-0.41421	-1.32322	0.64808	-0.00310	2.93558	0.23295	0.02523	0.77318
1.78859	-10.01603	1.81000	-0.41335	-1.32267	0.65414	-0.00311	2.94693	0.23266	0.02463	0.78279
1.83083	-10.14223	1.82418	-0.41234	-1.32209	0.66018	-0.00312	2.95747	0.23241	0.02401	0.79279
1.87371	-10.26834	1.83837	-0.41122	-1.32150	0.66611	-0.00312	2.96721	0.23219	0.02339	0.80297
1.91791	-10.39586	1.85270	-0.40997	-1.32093	0.67202	-0.00313	2.97649	0.23199	0.02278	0.81341
1.96309	-10.52332	1.86698	-0.40862	-1.32039	0.67787	-0.00313	2.98540	0.23181	0.02217	0.82391

2.00924	-10.65032	1.88116	-0.40718	-1.31992	0.68368	-0.00314	2.99409	0.23164	0.02159	0.83431
2.05634	-10.77661	1.89519	-0.40564	-1.31952	0.68943	-0.00314	3.00262	0.23149	0.02103	0.84446
2.10482	-10.90319	1.90919	-0.40400	-1.31919	0.69517	-0.00315	3.01112	0.23135	0.02049	0.85428
2.15424	-11.02899	1.92304	-0.40226	-1.31895	0.70087	-0.00315	3.01949	0.23122	0.01998	0.86351
2.20507	-11.15528	1.93690	-0.40041	-1.31877	0.70655	-0.00315	3.02779	0.23111	0.01950	0.87210
2.25683	-11.28104	1.95068	-0.39846	-1.31864	0.71217	-0.00316	3.03594	0.23100	0.01904	0.88004
2.31000	-11.40765	1.96453	-0.39637	-1.31856	0.71777	-0.00316	3.04403	0.23090	0.01859	0.88750
2.36463	-11.53532	1.97850	-0.39415	-1.31851	0.72335	-0.00316	3.05201	0.23080	0.01815	0.89459
2.42014	-11.66291	1.99249	-0.39181	-1.31847	0.72885	-0.00316	3.05973	0.23071	0.01772	0.90138
2.47709	-11.79172	2.00664	-0.38933	-1.31845	0.73430	-0.00316	3.06734	0.23061	0.01729	0.90808
2.53550	-11.92176	2.02094	-0.38671	-1.31843	0.73972	-0.00317	3.07479	0.23051	0.01685	0.91487
2.59471	-12.05157	2.03527	-0.38400	-1.31840	0.74503	-0.00317	3.08198	0.23041	0.01642	0.92181
2.65604	-12.18386	2.04987	-0.38110	-1.31839	0.75034	-0.00317	3.08917	0.23031	0.01597	0.92911
2.71887	-12.31703	2.06460	-0.37809	-1.31837	0.75560	-0.00317	3.09619	0.23020	0.01553	0.93676
2.78242	-12.44937	2.07926	-0.37500	-1.31836	0.76073	-0.00317	3.10302	0.23009	0.01508	0.94470
2.84819	-12.58358	2.09408	-0.37174	-1.31839	0.76586	-0.00317	3.10995	0.22997	0.01463	0.95322
2.91545	-12.71810	2.10898	-0.36842	-1.31842	0.77093	-0.00317	3.11668	0.22985	0.01419	0.96223
2.98329	-12.85071	2.12359	-0.36500	-1.31851	0.77586	-0.00316	3.12348	0.22973	0.01375	0.97154
3.05344	-12.98468	2.13836	-0.36151	-1.31861	0.78079	-0.00316	3.13021	0.22960	0.01333	0.98112
3.12598	-13.11988	2.15318	-0.35784	-1.31880	0.78570	-0.00316	3.13721	0.22948	0.01291	0.99081
3.19898	-13.25236	2.16768	-0.35420	-1.31902	0.79048	-0.00316	3.14405	0.22935	0.01252	1.00003
3.27439	-13.38592	2.18222	-0.35040	-1.31932	0.79524	-0.00316	3.15111	0.22923	0.01214	1.00879
3.35121	-13.51810	2.19657	-0.34659	-1.31966	0.79992	-0.00315	3.15818	0.22911	0.01180	1.01681
3.43053	-13.65128	2.21094	-0.34261	-1.32009	0.80458	-0.00315	3.16544	0.22899	0.01146	1.02442
3.51124	-13.78283	2.22511	-0.33866	-1.32055	0.80916	-0.00314	3.17263	0.22887	0.01115	1.03176
3.59324	-13.91320	2.23901	-0.33456	-1.32112	0.81363	-0.00314	3.18001	0.22876	0.01084	1.03918
3.67782	-14.04407	2.25305	-0.33051	-1.32168	0.81810	-0.00313	3.18716	0.22865	0.01055	1.04708
3.76506	-14.17528	2.26682	-0.32614	-1.32240	0.82249	-0.00313	3.19490	0.22854	0.01025	1.05594
3.85356	-14.30570	2.28082	-0.32200	-1.32303	0.82685	-0.00312	3.20187	0.22844	0.00997	1.06542
3.94477	-14.43547	2.29424	-0.31747	-1.32385	0.83109	-0.00312	3.20972	0.22834	0.00968	1.07563
4.03714	-14.56533	2.30809	-0.31315	-1.32459	0.83530	-0.00311	3.21659	0.22825	0.00941	1.08597
4.13223	-14.69403	2.32145	-0.30866	-1.32541	0.83940	-0.00310	3.22401	0.22816	0.00914	1.09645
4.23012	-14.82441	2.33495	-0.30390	-1.32633	0.84345	-0.00310	3.23134	0.22808	0.00888	1.10673
4.32900	-14.95324	2.34868	-0.29955	-1.32710	0.84747	-0.00309	3.23783	0.22800	0.00864	1.11615
4.43066	-15.08056	2.36144	-0.29460	-1.32810	0.85127	-0.00308	3.24540	0.22792	0.00839	1.12512
4.53515	-15.21129	2.37525	-0.28988	-1.32899	0.85517	-0.00307	3.25179	0.22787	0.00816	1.13335
4.64253	-15.34028	2.38867	-0.28523	-1.32987	0.85897	-0.00306	3.25842	0.22778	0.00795	1.14097
4.75059	-15.46651	2.40111	-0.27999	-1.33097	0.86250	-0.00306	3.26552	0.22774	0.00771	1.14809
4.86145	-15.59645	2.41502	-0.27532	-1.33183	0.86619	-0.00305	3.27116	0.22769	0.00752	1.15447
4.97760	-15.72539	2.42814	-0.27041	-1.33279	0.86977	-0.00304	3.27771	0.22761	0.00731	1.16061
5.09424	-15.85201	2.44038	-0.26487	-1.33396	0.87307	-0.00303	3.28438	0.22760	0.00708	1.16642
5.21376	-15.98295	2.45446	-0.26008	-1.33485	0.87658	-0.00302	3.28960	0.22756	0.00689	1.17161
5.33618	-16.10901	2.46727	-0.25526	-1.33579	0.87990	-0.00301	3.29560	0.22748	0.00670	1.17661
5.46150	-16.23363	2.47880	-0.24943	-1.33705	0.88293	-0.00300	3.30199	0.22750	0.00647	1.18176
5.58971	-16.36404	2.49250	-0.24431	-1.33804	0.88617	-0.00299	3.30698	0.22748	0.00627	1.18657
5.72082	-16.49135	2.50603	-0.23980	-1.33888	0.88940	-0.00298	3.31223	0.22738	0.00610	1.19131
5.85823	-16.61486	2.51687	-0.23378	-1.34020	0.89222	-0.00297	3.31850	0.22741	0.00586	1.19682
5.99520	-16.74122	2.52909	-0.22802	-1.34141	0.89506	-0.00296	3.32346	0.22745	0.00564	1.20222
6.13497	-16.87085	2.54337	-0.22351	-1.34224	0.89816	-0.00294	3.32809	0.22737	0.00548	1.20735
6.28141	-16.99318	2.55495	-0.21842	-1.34331	0.90094	-0.00293	3.33383	0.22731	0.00528	1.21306
6.42674	-17.10972	2.56438	-0.21209	-1.34474	0.90328	-0.00292	3.33873	0.22744	0.00502	1.21919
6.57895	-17.23737	2.57688	-0.20636	-1.34594	0.90596	-0.00291	3.34305	0.22749	0.00481	1.22529
6.73401	-17.36701	2.59132	-0.20206	-1.34677	0.90887	-0.00290	3.34815	0.22735	0.00467	1.23104
6.89180	-17.48131	2.60118	-0.19692	-1.34791	0.91122	-0.00289	3.35339	0.22733	0.00446	1.23738
7.05716	-17.59611	2.60924	-0.19004	-1.34947	0.91325	-0.00288	3.35694	0.22756	0.00417	1.24444
7.22022	-17.71577	2.62003	-0.18415	-1.35074	0.91550	-0.00286	3.36035	0.22768	0.00395	1.25083
7.39098	-17.84475	2.63414	-0.17961	-1.35168	0.91815	-0.00285	3.36542	0.22756	0.00380	1.25666
7.56430	-17.95874	2.64475	-0.17527	-1.35266	0.92043	-0.00284	3.37094	0.22745	0.00365	1.26237
7.73994	-18.05687	2.64923	-0.16852	-1.35420	0.92192	-0.00283	3.37245	0.22779	0.00334	1.26865
7.92393	-18.16731	2.65657	-0.16177	-1.35569	0.92364	-0.00282	3.37388	0.22809	0.00306	1.27444
8.11030	-18.28478	2.66671	-0.15590	-1.35697	0.92563	-0.00281	3.37628	0.22824	0.00284	1.27941
8.29876	-18.40843	2.68022	-0.15179	-1.35790	0.92800	-0.00279	3.38172	0.22809	0.00272	1.28333
8.49618	-18.50877	2.68672	-0.14692	-1.35903	0.92967	-0.00278	3.38491	0.22817	0.00253	1.28771
8.69565	-18.58942	2.68623	-0.13965	-1.36058	0.93045	-0.00278	3.38263	0.22872	0.00216	1.29295
8.90472	-18.68607	2.68982	-0.13269	-1.36204	0.93160	-0.00277	3.38158	0.22912	0.00184	1.29781
9.11577	-18.78595	2.69491	-0.12620	-1.36338	0.93287	-0.00276	3.38104	0.22944	0.00155	1.30240
9.32836	-18.90328	2.70581	-0.12093	-1.36456	0.93477	-0.00274	3.38273	0.22958	0.00136	1.30637
9.54198	-19.00438	2.71381	-0.11680	-1.36553	0.93640	-0.00273	3.38554	0.22961	0.00121	1.31035
9.76563	-19.05708	2.70744	-0.11079	-1.36662	0.93642	-0.00273	3.38311	0.22999	0.00087	1.31619
10.00000	-19.10989	2.70015	-0.10397	-1.36774	0.93623	-0.00273	3.38029	0.23036	0.00048	1.32295

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Low stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 30 - 61 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	1.29060	2.21550	-0.12721	-3.21641	1.14806	-0.00050	12.29188	0.25240	-0.00672	0.45862
PGV	9.29769	1.52718	-0.16719	-3.54259	1.03857	-0.00026	16.27081	0.24760	-0.00188	0.47127
PGA	3.67246	1.43702	-0.08102	-2.96320	0.50581	-0.00089	7.24159	0.41519	-0.02327	0.75513
0.01000	3.73310	1.44347	-0.07968	-2.96902	0.49170	-0.00089	7.28563	0.41801	-0.01207	0.76120
0.01024	3.74671	1.44387	-0.07945	-2.97126	0.49139	-0.00089	7.30040	0.41799	-0.01210	0.76169
0.01048	3.76200	1.44431	-0.07921	-2.97379	0.49107	-0.00089	7.31735	0.41796	-0.01214	0.76218
0.01072	3.77917	1.44480	-0.07895	-2.97666	0.49077	-0.00089	7.33676	0.41790	-0.01217	0.76267
0.01097	3.79838	1.44533	-0.07866	-2.97987	0.49046	-0.00088	7.35882	0.41783	-0.01222	0.76316
0.01123	3.81995	1.44592	-0.07835	-2.98350	0.49015	-0.00088	7.38397	0.41773	-0.01227	0.76366
0.01150	3.84420	1.44657	-0.07801	-2.98759	0.48984	-0.00088	7.41261	0.41761	-0.01233	0.76418
0.01177	3.87125	1.44729	-0.07765	-2.99217	0.48952	-0.00087	7.44487	0.41747	-0.01240	0.76471
0.01205	3.90141	1.44810	-0.07724	-2.99728	0.48921	-0.00087	7.48114	0.41730	-0.01248	0.76527
0.01233	3.93513	1.44900	-0.07680	-3.00301	0.48889	-0.00087	7.52200	0.41710	-0.01256	0.76587
0.01262	3.97280	1.45001	-0.07631	-3.00942	0.48855	-0.00086	7.56796	0.41688	-0.01266	0.76654
0.01292	4.01461	1.45114	-0.07577	-3.01655	0.48817	-0.00086	7.61915	0.41664	-0.01277	0.76729
0.01322	4.06061	1.45241	-0.07518	-3.02437	0.48768	-0.00085	7.67546	0.41638	-0.01290	0.76813
0.01353	4.11119	1.45381	-0.07452	-3.03296	0.48707	-0.00084	7.73739	0.41612	-0.01304	0.76909
0.01385	4.16695	1.45537	-0.07378	-3.04240	0.48635	-0.00084	7.80594	0.41583	-0.01319	0.77020
0.01417	4.22834	1.45709	-0.07297	-3.05273	0.48546	-0.00083	7.88189	0.41554	-0.01337	0.77149
0.01451	4.29634	1.45899	-0.07207	-3.06412	0.48438	-0.00082	7.96662	0.41521	-0.01358	0.77299
0.01485	4.37061	1.46113	-0.07107	-3.07650	0.48313	-0.00081	8.05938	0.41490	-0.01381	0.77474
0.01520	4.44954	1.46353	-0.06996	-3.08956	0.48162	-0.00080	8.15725	0.41464	-0.01406	0.77673
0.01556	4.53262	1.46620	-0.06873	-3.10320	0.47982	-0.00079	8.25938	0.41446	-0.01433	0.77897
0.01592	4.61953	1.46923	-0.06736	-3.11739	0.47772	-0.00079	8.36486	0.41440	-0.01461	0.78146
0.01630	4.70426	1.47261	-0.06584	-3.13103	0.47506	-0.00078	8.46350	0.41458	-0.01490	0.78414
0.01668	4.77396	1.47618	-0.06414	-3.14160	0.47117	-0.00078	8.53483	0.41528	-0.01519	0.78703
0.01707	4.82254	1.47984	-0.06225	-3.14787	0.46590	-0.00078	8.57018	0.41660	-0.01551	0.79020
0.01748	4.85789	1.48356	-0.06019	-3.15125	0.45982	-0.00079	8.58386	0.41833	-0.01584	0.79364
0.01789	4.88852	1.48742	-0.05801	-3.15338	0.45323	-0.00081	8.59009	0.42026	-0.01615	0.79705
0.01831	4.91328	1.49169	-0.05575	-3.15437	0.44610	-0.00082	8.58397	0.42249	-0.01640	0.80019
0.01874	4.92551	1.49654	-0.05339	-3.15335	0.43838	-0.00084	8.55168	0.42521	-0.01658	0.80290
0.01918	4.91327	1.50168	-0.05092	-3.14805	0.42962	-0.00086	8.47587	0.42860	-0.01667	0.80520
0.01963	4.86543	1.50687	-0.04835	-3.13631	0.41916	-0.00089	8.34276	0.43285	-0.01677	0.80760
0.02009	4.79139	1.51211	-0.04576	-3.11988	0.40700	-0.00092	8.16886	0.43777	-0.01688	0.81018
0.02057	4.70762	1.51742	-0.04318	-3.10189	0.39433	-0.00095	7.98046	0.44296	-0.01689	0.81221
0.02105	4.60994	1.52262	-0.04060	-3.08159	0.38237	-0.00098	7.77386	0.44840	-0.01679	0.81344
0.02154	4.49301	1.52728	-0.03805	-3.05763	0.37070	-0.00102	7.54489	0.45417	-0.01668	0.81458
0.02205	4.36552	1.53111	-0.03565	-3.03119	0.35839	-0.00106	7.30942	0.46005	-0.01668	0.81632
0.02257	4.22289	1.53433	-0.03340	-3.00165	0.34531	-0.00109	7.06133	0.46619	-0.01662	0.81769
0.02310	4.04335	1.53738	-0.03108	-2.96561	0.33219	-0.00114	6.76889	0.47317	-0.01638	0.81775
0.02364	3.82047	1.54026	-0.02850	-2.92202	0.31970	-0.00120	6.42607	0.48121	-0.01612	0.81754
0.02420	3.58541	1.54267	-0.02588	-2.87630	0.30726	-0.00126	6.07711	0.48959	-0.01597	0.81786
0.02477	3.37166	1.54478	-0.02356	-2.83479	0.29412	-0.00131	5.76171	0.49758	-0.01579	0.81789
0.02535	3.16885	1.54675	-0.02144	-2.79567	0.28023	-0.00135	5.46417	0.50548	-0.01540	0.81649
0.02595	2.96896	1.54863	-0.01931	-2.75727	0.26680	-0.00138	5.17845	0.51344	-0.01483	0.81383
0.02656	2.78710	1.55052	-0.01723	-2.72231	0.25473	-0.00141	4.92454	0.52092	-0.01424	0.81118
0.02719	2.63174	1.55242	-0.01548	-2.69267	0.24352	-0.00144	4.70716	0.52767	-0.01374	0.80919
0.02783	2.50219	1.55399	-0.01426	-2.66801	0.23285	-0.00145	4.52162	0.53366	-0.01328	0.80754
0.02848	2.38325	1.55494	-0.01330	-2.64480	0.22326	-0.00147	4.35531	0.53915	-0.01279	0.80537
0.02915	2.25104	1.55506	-0.01220	-2.61821	0.21522	-0.00150	4.18685	0.54472	-0.01229	0.80278
0.02984	2.10260	1.55480	-0.01088	-2.58847	0.20887	-0.00154	4.00941	0.55063	-0.01181	0.80021
0.03054	1.95160	1.55481	-0.00941	-2.55899	0.20346	-0.00158	3.83146	0.55672	-0.01133	0.79787
0.03126	1.80018	1.55476	-0.00784	-2.52971	0.19698	-0.00161	3.65432	0.56306	-0.01094	0.79639
0.03199	1.64444	1.55417	-0.00638	-2.49912	0.18764	-0.00163	3.47687	0.56973	-0.01065	0.79579
0.03275	1.48967	1.55333	-0.00521	-2.46830	0.17589	-0.00166	3.30627	0.57652	-0.01042	0.79566
0.03352	1.32567	1.55224	-0.00424	-2.43558	0.16393	-0.00168	3.13194	0.58373	-0.01028	0.79616
0.03430	1.15399	1.55065	-0.00329	-2.40113	0.15452	-0.00171	2.95579	0.59124	-0.01022	0.79718
0.03511	1.01123	1.54910	-0.00255	-2.37213	0.14875	-0.00175	2.81020	0.59771	-0.01007	0.79743
0.03594	0.93488	1.54790	-0.00246	-2.35611	0.14346	-0.00175	2.72150	0.60183	-0.00960	0.79541
0.03678	0.92001	1.54666	-0.00331	-2.35207	0.13462	-0.00172	2.68160	0.60374	-0.00885	0.79148
0.03765	0.91528	1.54523	-0.00470	-2.35006	0.12306	-0.00168	2.65139	0.60516	-0.00821	0.78828
0.03854	0.87228	1.54327	-0.00590	-2.34051	0.11195	-0.00165	2.59327	0.60780	-0.00783	0.78689
0.03944	0.77720	1.53934	-0.00646	-2.31949	0.10307	-0.00165	2.49579	0.61215	-0.00751	0.78601
0.04037	0.64266	1.53306	-0.00632	-2.28882	0.09650	-0.00166	2.36979	0.61791	-0.00702	0.78422
0.04132	0.49032	1.52625	-0.00568	-2.25379	0.09064	-0.00169	2.23365	0.62467	-0.00640	0.78155
0.04229	0.34397	1.52160	-0.00487	-2.22122	0.08479	-0.00172	2.10711	0.63174	-0.00588	0.77922
0.04329	0.24183	1.52105	-0.00442	-2.20045	0.08171	-0.00174	2.01878	0.63728	-0.00558	0.77802
0.04431	0.21502	1.52404	-0.00485	-2.19731	0.08398	-0.00176	1.98910	0.63936	-0.00527	0.77661
0.04535	0.24330	1.52747	-0.00617	-2.20545	0.09065	-0.00176	2.00085	0.63848	-0.00474	0.77377

0.04642	0.28102	1.52839	-0.00790	-2.21349	0.09883	-0.00177	2.02116	0.63651	-0.00408	0.77000
0.04751	0.30530	1.52638	-0.00946	-2.21635	0.10623	-0.00178	2.03516	0.63453	-0.00334	0.76572
0.04863	0.30795	1.52294	-0.01048	-2.21365	0.11146	-0.00179	2.03660	0.63328	-0.00245	0.76029
0.04977	0.27706	1.51923	-0.01109	-2.20440	0.11270	-0.00181	2.01243	0.63378	-0.00127	0.75264
0.05094	0.19981	1.51543	-0.01148	-2.18663	0.10900	-0.00182	1.95065	0.63689	0.00015	0.74328
0.05214	0.07498	1.51200	-0.01160	-2.16030	0.10205	-0.00183	1.85374	0.64271	0.00146	0.73461
0.05337	-0.07750	1.50954	-0.01153	-2.12938	0.09375	-0.00186	1.73946	0.65041	0.00238	0.72866
0.05462	-0.21833	1.50782	-0.01170	-2.10116	0.08483	-0.00188	1.63475	0.65807	0.00267	0.72682
0.05591	-0.30073	1.50618	-0.01271	-2.08419	0.07727	-0.00188	1.56849	0.66300	0.00225	0.72950
0.05722	-0.30316	1.50437	-0.01483	-2.08255	0.07361	-0.00185	1.55305	0.66362	0.00145	0.73469
0.05857	-0.25232	1.50254	-0.01768	-2.09130	0.07409	-0.00182	1.57268	0.66111	0.00090	0.73873
0.05995	-0.19864	1.50018	-0.02050	-2.10036	0.07778	-0.00179	1.59845	0.65783	0.00104	0.73873
0.06136	-0.18014	1.49603	-0.02281	-2.10123	0.08389	-0.00179	1.60771	0.65542	0.00182	0.73471
0.06280	-0.20817	1.48973	-0.02459	-2.09131	0.09153	-0.00181	1.59203	0.65456	0.00291	0.72899
0.06428	-0.27079	1.48236	-0.02609	-2.07379	0.09908	-0.00186	1.55615	0.65514	0.00401	0.72351
0.06579	-0.34740	1.47492	-0.02764	-2.05371	0.10332	-0.00189	1.50958	0.65675	0.00494	0.71898
0.06734	-0.42650	1.46765	-0.02943	-2.03378	0.10149	-0.00191	1.45724	0.65912	0.00558	0.71586
0.06893	-0.50962	1.46048	-0.03131	-2.01369	0.09473	-0.00190	1.39963	0.66223	0.00588	0.71434
0.07055	-0.59474	1.45384	-0.03303	-1.99385	0.08744	-0.00189	1.34191	0.66567	0.00593	0.71397
0.07221	-0.66969	1.44826	-0.03459	-1.97664	0.08340	-0.00188	1.29376	0.66853	0.00583	0.71410
0.07391	-0.72424	1.44323	-0.03618	-1.96323	0.08314	-0.00187	1.26048	0.67016	0.00572	0.71389
0.07565	-0.75431	1.43809	-0.03801	-1.95372	0.08471	-0.00187	1.24266	0.67034	0.00580	0.71242
0.07743	-0.75770	1.43292	-0.04022	-1.94892	0.08629	-0.00186	1.24064	0.66893	0.00619	0.70927
0.07925	-0.73601	1.42798	-0.04286	-1.94913	0.08774	-0.00184	1.25425	0.66586	0.00677	0.70506
0.08111	-0.69436	1.42362	-0.04586	-1.95377	0.09075	-0.00183	1.28306	0.66119	0.00737	0.70085
0.08302	-0.64550	1.41981	-0.04916	-1.96023	0.09634	-0.00182	1.32131	0.65561	0.00787	0.69758
0.08498	-0.60917	1.41596	-0.05259	-1.96412	0.10358	-0.00183	1.35599	0.65037	0.00818	0.69597
0.08697	-0.60196	1.41135	-0.05585	-1.96183	0.11031	-0.00185	1.37372	0.64666	0.00822	0.69651
0.08902	-0.62469	1.40603	-0.05871	-1.95357	0.11516	-0.00187	1.37152	0.64466	0.00804	0.69860
0.09112	-0.66113	1.40068	-0.06115	-1.94343	0.11874	-0.00189	1.35880	0.64352	0.00786	0.70072
0.09326	-0.69957	1.39569	-0.06321	-1.93413	0.12264	-0.00189	1.34327	0.64254	0.00777	0.70219
0.09545	-0.74302	1.39116	-0.06491	-1.92475	0.12847	-0.00190	1.32439	0.64179	0.00766	0.70418
0.09770	-0.78599	1.38691	-0.06652	-1.91551	0.13724	-0.00193	1.30754	0.64083	0.00727	0.70857
0.10000	-0.80633	1.38295	-0.06853	-1.91031	0.14887	-0.00196	1.30731	0.63833	0.00650	0.71600
0.10235	-0.78046	1.37978	-0.07134	-1.91434	0.16286	-0.00198	1.33836	0.63301	0.00554	0.72499
0.10476	-0.70457	1.37770	-0.07502	-1.92900	0.17816	-0.00198	1.40322	0.62489	0.00459	0.73390
0.10723	-0.60475	1.37652	-0.07928	-1.94932	0.19287	-0.00196	1.48451	0.61582	0.00381	0.74144
0.10975	-0.51683	1.37570	-0.08370	-1.96792	0.20508	-0.00194	1.55708	0.60793	0.00334	0.74648
0.11233	-0.46736	1.37439	-0.08789	-1.97877	0.21347	-0.00192	1.60148	0.60248	0.00323	0.74868
0.11498	-0.47259	1.37174	-0.09158	-1.97783	0.21710	-0.00191	1.60506	0.60013	0.00332	0.74903
0.11768	-0.51806	1.36763	-0.09476	-1.96761	0.21707	-0.00191	1.57855	0.60001	0.00340	0.74931
0.12045	-0.56823	1.36276	-0.09760	-1.95550	0.21685	-0.00191	1.55018	0.60002	0.00338	0.75030
0.12328	-0.60197	1.35848	-0.10017	-1.94694	0.22054	-0.00192	1.53716	0.59888	0.00338	0.75131
0.12619	-0.61031	1.35575	-0.10257	-1.94469	0.23068	-0.00193	1.54727	0.59599	0.00339	0.75210
0.12916	-0.59831	1.35432	-0.10496	-1.94749	0.24605	-0.00196	1.57729	0.59164	0.00329	0.75334
0.13219	-0.57995	1.35345	-0.10739	-1.95192	0.26396	-0.00199	1.61687	0.58664	0.00306	0.75504
0.13531	-0.56453	1.35259	-0.10986	-1.95571	0.28188	-0.00202	1.65854	0.58153	0.00282	0.75648
0.13849	-0.55353	1.35132	-0.11243	-1.95839	0.29787	-0.00205	1.69989	0.57642	0.00261	0.75755
0.14175	-0.53285	1.34952	-0.11529	-1.96272	0.31154	-0.00207	1.75092	0.57058	0.00242	0.75867
0.14508	-0.49139	1.34729	-0.11853	-1.97102	0.32301	-0.00206	1.82050	0.56349	0.00224	0.75998
0.14850	-0.42988	1.34487	-0.12209	-1.98325	0.33233	-0.00204	1.90926	0.55535	0.00207	0.76139
0.15199	-0.36447	1.34234	-0.12579	-1.99619	0.33907	-0.00201	2.00437	0.54713	0.00184	0.76291
0.15557	-0.32276	1.33945	-0.12939	-2.00414	0.34195	-0.00198	2.07989	0.54040	0.00149	0.76481
0.15923	-0.31934	1.33611	-0.13276	-2.00408	0.34088	-0.00195	2.11988	0.53592	0.00097	0.76737
0.16298	-0.35082	1.33268	-0.13580	-1.99692	0.33688	-0.00193	2.12509	0.53358	0.00033	0.77069
0.16681	-0.41172	1.32952	-0.13849	-1.98407	0.33105	-0.00193	2.09984	0.53318	-0.00037	0.77476
0.17074	-0.49256	1.32708	-0.14093	-1.96780	0.32457	-0.00193	2.05301	0.53430	-0.00107	0.77934
0.17475	-0.58875	1.32554	-0.14321	-1.94930	0.31751	-0.00194	1.98993	0.53667	-0.00164	0.78361
0.17887	-0.69523	1.32498	-0.14544	-1.92986	0.30974	-0.00195	1.91585	0.54001	-0.00199	0.78662
0.18307	-0.81006	1.32505	-0.14766	-1.90982	0.30089	-0.00197	1.83396	0.54403	-0.00200	0.78738
0.18738	-0.93491	1.32490	-0.14994	-1.88819	0.29047	-0.00198	1.74460	0.54856	-0.00169	0.78584
0.19179	-1.06430	1.32398	-0.15235	-1.86555	0.27925	-0.00199	1.65387	0.55311	-0.00123	0.78301
0.19631	-1.19639	1.32238	-0.15490	-1.84224	0.26835	-0.00200	1.56442	0.55754	-0.00075	0.77992
0.20092	-1.33114	1.32054	-0.15755	-1.81851	0.25876	-0.00202	1.47770	0.56185	-0.00027	0.77679
0.20565	-1.47321	1.31883	-0.16020	-1.79365	0.25114	-0.00205	1.39062	0.56641	0.00029	0.77336
0.21049	-1.61842	1.31742	-0.16287	-1.76851	0.24642	-0.00209	1.30669	0.57103	0.00092	0.76984
0.21544	-1.76421	1.31600	-0.16569	-1.74318	0.24411	-0.00213	1.22708	0.57558	0.00160	0.76656
0.22051	-1.90368	1.31411	-0.16888	-1.71849	0.24348	-0.00218	1.15590	0.57955	0.00226	0.76389
0.22570	-2.02877	1.31153	-0.17261	-1.69580	0.24437	-0.00222	1.09809	0.58224	0.00284	0.76222
0.23101	-2.13604	1.30834	-0.17679	-1.67589	0.24677	-0.00226	1.05504	0.58335	0.00326	0.76189
0.23645	-2.22286	1.30488	-0.18132	-1.65971	0.25128	-0.00229	1.02805	0.58257	0.00346	0.76329
0.24201	-2.28654	1.30153	-0.18603	-1.64824	0.25840	-0.00231	1.01876	0.57969	0.00336	0.76672
0.24771	-2.32612	1.29885	-0.19077	-1.64225	0.26838	-0.00233	1.02781	0.57476	0.00296	0.77223
0.25354	-2.34513	1.29724	-0.19540	-1.64143	0.28062	-0.00233	1.05260	0.56832	0.00224	0.77975
0.25950	-2.34937	1.29683	-0.19981	-1.64464	0.29466	-0.00234	1.08931	0.56103	0.00125	0.78899
0.26561	-2.34976	1.29735	-0.20392	-1.64928	0.30948	-0.00234	1.13025	0.55383	0.00010	0.79911
0.27186	-2.35368	1.29847	-0.20777	-1.65343	0.32421	-0.00235	1.16996	0.54725	-0.00108	0.80909
0.27826	-2.36023	1.30015	-0.21139	-1.65723	0.33881	-0.00236	1.20896	0.54119	-0.00218	0.81832
0.28480	-2.36604	1.30249	-0.21484	-1.66144	0.35360	-0.00237	1.24972	0.53544	-0.00316	0.82662
0.29150	-2.36573	1.30566	-0.21813	-1.66726	0.36899	-0.00238	1.29723	0.52959	-0.00401	0.83391
0.29836	-2.35794	1.30956	-0.22131	-1.67482	0.38424	-0.00239	1.35281	0.52358	-0.00472	0.84015

0.30539	-2.34417	1.31388	-0.22442	-1.68351	0.39841	-0.00239	1.41549	0.51749	-0.00530	0.84533
0.31257	-2.32628	1.31832	-0.22749	-1.69261	0.41104	-0.00239	1.48387	0.51142	-0.00578	0.84963
0.31993	-2.30354	1.32287	-0.23049	-1.70226	0.42230	-0.00238	1.55905	0.50533	-0.00618	0.85343
0.32745	-2.27089	1.32776	-0.23334	-1.71377	0.43320	-0.00237	1.64639	0.49892	-0.00655	0.85688
0.33517	-2.22381	1.33313	-0.23605	-1.72823	0.44456	-0.00235	1.75101	0.49200	-0.00687	0.86014
0.34304	-2.16061	1.33899	-0.23864	-1.74599	0.45661	-0.00233	1.87493	0.48460	-0.00716	0.86324
0.35112	-2.08281	1.34535	-0.24117	-1.76677	0.46932	-0.00231	2.01744	0.47691	-0.00740	0.86616
0.35938	-1.99271	1.35209	-0.24370	-1.79009	0.48249	-0.00229	2.17614	0.46919	-0.00757	0.86866
0.36784	-1.89878	1.35906	-0.24626	-1.81419	0.49564	-0.00226	2.34208	0.46186	-0.00760	0.87033
0.37649	-1.81674	1.36589	-0.24884	-1.83582	0.50768	-0.00225	2.49594	0.45562	-0.00742	0.87055
0.38536	-1.75738	1.37232	-0.25146	-1.85285	0.51852	-0.00224	2.62215	0.45084	-0.00698	0.86885
0.39442	-1.72806	1.37808	-0.25411	-1.86384	0.52761	-0.00225	2.70956	0.44763	-0.00627	0.86520
0.40370	-1.73268	1.38300	-0.25679	-1.86795	0.53384	-0.00225	2.75244	0.44596	-0.00538	0.86011
0.41321	-1.77149	1.38697	-0.25956	-1.86508	0.53574	-0.00226	2.74928	0.44583	-0.00442	0.85445
0.42292	-1.84611	1.38981	-0.26241	-1.85470	0.53186	-0.00227	2.69853	0.44729	-0.00350	0.84908
0.43288	-1.95381	1.39150	-0.26541	-1.83746	0.52193	-0.00227	2.60566	0.45014	-0.00264	0.84415
0.44307	-2.08940	1.39218	-0.26860	-1.81453	0.50664	-0.00227	2.47950	0.45416	-0.00180	0.83950
0.45349	-2.24310	1.39225	-0.27198	-1.78831	0.48828	-0.00226	2.33535	0.45890	-0.00098	0.83534
0.46417	-2.40614	1.39205	-0.27554	-1.76079	0.46850	-0.00224	2.18687	0.46386	-0.00020	0.83195
0.47508	-2.57210	1.39197	-0.27919	-1.73363	0.44904	-0.00223	2.04393	0.46861	0.00045	0.82985
0.48626	-2.73617	1.39223	-0.28294	-1.70798	0.43120	-0.00222	1.91230	0.47288	0.00089	0.82971
0.49771	-2.89091	1.39289	-0.28677	-1.68538	0.41625	-0.00222	1.79933	0.47617	0.00104	0.83205
0.50942	-3.03774	1.39380	-0.29067	-1.66536	0.40391	-0.00221	1.70345	0.47840	0.00087	0.83704
0.52140	-3.18111	1.39497	-0.29461	-1.64701	0.39345	-0.00221	1.62046	0.47966	0.00038	0.84435
0.53367	-3.32565	1.39624	-0.29871	-1.62923	0.38381	-0.00220	1.54521	0.48020	-0.00028	0.85312
0.54624	-3.47166	1.39729	-0.30309	-1.61155	0.37486	-0.00220	1.47694	0.47998	-0.00098	0.86240
0.55910	-3.61864	1.39811	-0.30774	-1.59403	0.36700	-0.00220	1.41691	0.47880	-0.00158	0.87116
0.57225	-3.76616	1.39903	-0.31260	-1.57695	0.36044	-0.00220	1.36668	0.47651	-0.00200	0.87862
0.58569	-3.91327	1.40036	-0.31756	-1.56064	0.35576	-0.00221	1.32722	0.47309	-0.00220	0.88450
0.59948	-4.05992	1.40210	-0.32263	-1.54509	0.35321	-0.00222	1.29727	0.46865	-0.00215	0.88866
0.61357	-4.20702	1.40419	-0.32777	-1.52992	0.35188	-0.00225	1.27338	0.46360	-0.00181	0.89089
0.62802	-4.35572	1.40666	-0.33292	-1.51502	0.35145	-0.00228	1.25384	0.45807	-0.00121	0.89125
0.64280	-4.50554	1.40961	-0.33800	-1.50055	0.35187	-0.00231	1.23816	0.45213	-0.00040	0.88994
0.65794	-4.65556	1.41314	-0.34300	-1.48679	0.35343	-0.00234	1.22670	0.44577	0.00059	0.88707
0.67340	-4.80335	1.41716	-0.34789	-1.47410	0.35623	-0.00237	1.22039	0.43900	0.00175	0.88274
0.68927	-4.94674	1.42145	-0.35268	-1.46280	0.36056	-0.00241	1.22145	0.43161	0.00304	0.87729
0.70547	-5.08133	1.42584	-0.35735	-1.45349	0.36653	-0.00244	1.23350	0.42334	0.00441	0.87100
0.72207	-5.20725	1.43038	-0.36194	-1.44616	0.37419	-0.00247	1.25835	0.41403	0.00584	0.86393
0.73910	-5.32616	1.43516	-0.36644	-1.44042	0.38289	-0.00251	1.29587	0.40380	0.00732	0.85586
0.75649	-5.43846	1.44030	-0.37077	-1.43629	0.39254	-0.00253	1.34626	0.39279	0.00890	0.84632
0.77429	-5.54497	1.44573	-0.37490	-1.43357	0.40310	-0.00256	1.40951	0.38115	0.01062	0.83488
0.79246	-5.64705	1.45119	-0.37884	-1.43163	0.41395	-0.00259	1.48299	0.36922	0.01248	0.82139
0.81116	-5.74622	1.45658	-0.38263	-1.43015	0.42492	-0.00261	1.56674	0.35703	0.01447	0.80615
0.83022	-5.84201	1.46189	-0.38623	-1.42904	0.43600	-0.00263	1.65954	0.34482	0.01647	0.79014
0.84976	-5.93612	1.46743	-0.38965	-1.42832	0.44745	-0.00266	1.76122	0.33268	0.01843	0.77402
0.86972	-6.02939	1.47336	-0.39283	-1.42791	0.45926	-0.00268	1.86989	0.32083	0.02025	0.75853
0.89023	-6.12396	1.47974	-0.39582	-1.42750	0.47130	-0.00270	1.98326	0.30941	0.02196	0.74402
0.91116	-6.22035	1.48639	-0.39861	-1.42671	0.48303	-0.00273	2.09630	0.29870	0.02355	0.73092
0.93257	-6.31878	1.49314	-0.40125	-1.42541	0.49426	-0.00275	2.20705	0.28874	0.02504	0.71932
0.95456	-6.41898	1.49990	-0.40374	-1.42364	0.50502	-0.00278	2.31504	0.27946	0.02639	0.70941
0.97704	-6.52146	1.50670	-0.40606	-1.42130	0.51511	-0.00280	2.41742	0.27096	0.02757	0.70143
1.00000	-6.62774	1.51372	-0.40817	-1.41821	0.52426	-0.00283	2.51153	0.26326	0.02853	0.69541
1.02354	-6.73921	1.52119	-0.41008	-1.41434	0.53247	-0.00285	2.59631	0.25632	0.02928	0.69125
1.04767	-6.85599	1.52920	-0.41176	-1.40978	0.53981	-0.00287	2.67137	0.25011	0.02983	0.68873
1.07227	-6.97661	1.53769	-0.41323	-1.40473	0.54639	-0.00290	2.73716	0.24456	0.03022	0.68760
1.09745	-7.10005	1.54657	-0.41453	-1.39937	0.55240	-0.00292	2.79534	0.23958	0.03048	0.68757
1.12334	-7.22509	1.55569	-0.41568	-1.39392	0.55805	-0.00294	2.84786	0.23507	0.03066	0.68843
1.14982	-7.34968	1.56488	-0.41673	-1.38860	0.56348	-0.00295	2.89607	0.23097	0.03079	0.68996
1.17675	-7.47273	1.57406	-0.41765	-1.38352	0.56874	-0.00297	2.94037	0.22729	0.03086	0.69201
1.20453	-7.59624	1.58347	-0.41846	-1.37865	0.57395	-0.00299	2.98169	0.22396	0.03088	0.69446
1.23289	-7.71953	1.59314	-0.41912	-1.37407	0.57909	-0.00300	3.01959	0.22101	0.03084	0.69716
1.26183	-7.84305	1.60321	-0.41961	-1.36979	0.58420	-0.00302	3.05425	0.21843	0.03072	0.70009
1.29149	-7.96780	1.61382	-0.41994	-1.36579	0.58932	-0.00303	3.08593	0.21619	0.03051	0.70334
1.32188	-8.09378	1.62496	-0.42010	-1.36206	0.59447	-0.00305	3.11472	0.21426	0.03021	0.70696
1.35300	-8.22066	1.63655	-0.42014	-1.35859	0.59964	-0.00306	3.14077	0.21262	0.02985	0.71101
1.38485	-8.34783	1.64845	-0.42005	-1.35537	0.60485	-0.00307	3.16433	0.21123	0.02942	0.71554
1.41743	-8.47460	1.66050	-0.41988	-1.35240	0.61010	-0.00308	3.18562	0.21008	0.02896	0.72062
1.45075	-8.60040	1.67257	-0.41963	-1.34967	0.61538	-0.00310	3.20489	0.20912	0.02848	0.72624
1.48500	-8.72573	1.68465	-0.41933	-1.34715	0.62073	-0.00311	3.22232	0.20835	0.02798	0.73239
1.51999	-8.84984	1.69665	-0.41897	-1.34484	0.62609	-0.00312	3.23780	0.20774	0.02748	0.73900
1.55569	-8.97307	1.70862	-0.41854	-1.34270	0.63145	-0.00313	3.25123	0.20728	0.02697	0.74605
1.59236	-9.09668	1.72071	-0.41802	-1.34068	0.63684	-0.00314	3.26271	0.20697	0.02644	0.75357
1.62973	-9.22037	1.73294	-0.41741	-1.33877	0.64219	-0.00315	3.27208	0.20678	0.02588	0.76151
1.66806	-9.34539	1.74545	-0.41668	-1.33693	0.64754	-0.00315	3.27948	0.20671	0.02529	0.76990
1.70736	-9.47203	1.75829	-0.41582	-1.33513	0.65287	-0.00316	3.28491	0.20675	0.02467	0.77874
1.74764	-9.60031	1.77147	-0.41484	-1.33337	0.65817	-0.00317	3.28858	0.20688	0.02401	0.78801
1.78859	-9.72906	1.78486	-0.41374	-1.33166	0.66341	-0.00318	3.29072	0.20708	0.02333	0.79762
1.83083	-9.85988	1.79858	-0.41251	-1.32999	0.66868	-0.00319	3.29166	0.20734	0.02262	0.80765
1.87371	-9.99030	1.81235	-0.41119	-1.32840	0.67389	-0.00319	3.29165	0.20765	0.02192	0.81790
1.91791	-10.12191	1.82629	-0.40976	-1.32686	0.67913	-0.00320	3.29097	0.20799	0.02122	0.82843
1.96309	-10.25321	1.84020	-0.40824	-1.32542	0.68437	-0.00321	3.28984	0.20836	0.02054	0.83900

2.00924	-10.38381	1.85403	-0.40664	-1.32407	0.68960	-0.00321	3.28846	0.20875	0.01988	0.84946
2.05634	-10.51346	1.86772	-0.40497	-1.32284	0.69483	-0.00322	3.28701	0.20914	0.01926	0.85963
2.10482	-10.64318	1.88138	-0.40321	-1.32171	0.70011	-0.00322	3.28551	0.20955	0.01868	0.86945
2.15424	-10.77187	1.89489	-0.40137	-1.32069	0.70536	-0.00323	3.28398	0.20997	0.01813	0.87864
2.20507	-10.90083	1.90842	-0.39943	-1.31976	0.71065	-0.00323	3.28240	0.21039	0.01761	0.88718
2.25683	-11.02904	1.92186	-0.39739	-1.31892	0.71591	-0.00324	3.28078	0.21082	0.01713	0.89505
2.31000	-11.15789	1.93539	-0.39523	-1.31815	0.72118	-0.00324	3.27905	0.21126	0.01666	0.90244
2.36463	-11.28764	1.94905	-0.39295	-1.31745	0.72645	-0.00325	3.27717	0.21170	0.01620	0.90945
2.42014	-11.41711	1.96274	-0.39056	-1.31681	0.73167	-0.00325	3.27514	0.21215	0.01576	0.91617
2.47709	-11.54764	1.97660	-0.38804	-1.31622	0.73687	-0.00325	3.27301	0.21260	0.01531	0.92281
2.53550	-11.67928	1.99064	-0.38538	-1.31566	0.74205	-0.00325	3.27075	0.21305	0.01486	0.92955
2.59471	-11.81062	2.00472	-0.38263	-1.31514	0.74714	-0.00326	3.26825	0.21350	0.01441	0.93646
2.65604	-11.94429	2.01910	-0.37971	-1.31466	0.75226	-0.00326	3.26569	0.21395	0.01394	0.94376
2.71887	-12.07878	2.03363	-0.37667	-1.31422	0.75734	-0.00326	3.26300	0.21440	0.01347	0.95141
2.78242	-12.21237	2.04810	-0.37356	-1.31382	0.76232	-0.00326	3.26026	0.21484	0.01301	0.95939
2.84819	-12.34772	2.06276	-0.37028	-1.31346	0.76731	-0.00326	3.25760	0.21528	0.01253	0.96793
2.91545	-12.48340	2.07752	-0.36694	-1.31314	0.77227	-0.00326	3.25485	0.21572	0.01206	0.97699
2.98329	-12.61701	2.09197	-0.36350	-1.31289	0.77710	-0.00326	3.25240	0.21614	0.01160	0.98632
3.05344	-12.75203	2.10663	-0.35999	-1.31267	0.78195	-0.00326	3.24993	0.21655	0.01116	0.99594
3.12598	-12.88817	2.12131	-0.35631	-1.31253	0.78680	-0.00326	3.24771	0.21696	0.01072	1.00565
3.19898	-13.02162	2.13570	-0.35266	-1.31244	0.79153	-0.00326	3.24569	0.21735	0.01031	1.01490
3.27439	-13.15603	2.15011	-0.34884	-1.31242	0.79627	-0.00326	3.24388	0.21774	0.00991	1.02367
3.35121	-13.28908	2.16434	-0.34502	-1.31245	0.80093	-0.00326	3.24237	0.21811	0.00955	1.03169
3.43053	-13.42301	2.17858	-0.34103	-1.31256	0.80559	-0.00325	3.24106	0.21847	0.00920	1.03930
3.51124	-13.55536	2.19263	-0.33708	-1.31271	0.81019	-0.00325	3.24004	0.21881	0.00888	1.04661
3.59324	-13.68628	2.20637	-0.33297	-1.31295	0.81469	-0.00325	3.23933	0.21915	0.00857	1.05399
3.67782	-13.81796	2.22031	-0.32891	-1.31321	0.81919	-0.00325	3.23865	0.21947	0.00827	1.06184
3.76506	-13.94948	2.23389	-0.32454	-1.31359	0.82364	-0.00324	3.23856	0.21979	0.00797	1.07060
3.85356	-14.08073	2.24780	-0.32039	-1.31394	0.82806	-0.00324	3.23806	0.22010	0.00770	1.07998
3.94477	-14.21061	2.26101	-0.31588	-1.31443	0.83237	-0.00323	3.23853	0.22039	0.00742	1.09004
4.03714	-14.34112	2.27475	-0.31154	-1.31489	0.83666	-0.00323	3.23828	0.22070	0.00716	1.10025
4.13223	-14.47007	2.28796	-0.30706	-1.31543	0.84086	-0.00322	3.23888	0.22096	0.00691	1.11057
4.23012	-14.60046	2.30126	-0.30231	-1.31606	0.84502	-0.00322	3.23934	0.22125	0.00666	1.12068
4.32900	-14.73007	2.31495	-0.29794	-1.31659	0.84914	-0.00321	3.23946	0.22152	0.00644	1.12997
4.43066	-14.85688	2.32745	-0.29302	-1.31733	0.85308	-0.00321	3.24072	0.22177	0.00621	1.13877
4.53515	-14.98803	2.34117	-0.28828	-1.31799	0.85710	-0.00320	3.24084	0.22206	0.00600	1.14687
4.64253	-15.11740	2.35451	-0.28362	-1.31866	0.86103	-0.00319	3.24162	0.22229	0.00579	1.15437
4.75059	-15.24272	2.36667	-0.27842	-1.31952	0.86473	-0.00319	3.24293	0.22255	0.00558	1.16131
4.86145	-15.37339	2.38059	-0.27372	-1.32022	0.86856	-0.00318	3.24290	0.22282	0.00539	1.16761
4.97760	-15.50234	2.39361	-0.26880	-1.32101	0.87229	-0.00317	3.24410	0.22304	0.00520	1.17363
5.09424	-15.62763	2.40554	-0.26331	-1.32199	0.87579	-0.00316	3.24550	0.22330	0.00499	1.17927
5.21376	-15.75942	2.41967	-0.25848	-1.32276	0.87947	-0.00315	3.24544	0.22356	0.00481	1.18439
5.33618	-15.88563	2.43245	-0.25364	-1.32359	0.88296	-0.00314	3.24665	0.22376	0.00463	1.18931
5.46150	-16.00825	2.44360	-0.24788	-1.32468	0.88620	-0.00314	3.24840	0.22402	0.00441	1.19429
5.58971	-16.13901	2.45731	-0.24273	-1.32558	0.88965	-0.00313	3.24850	0.22429	0.00423	1.19902
5.72082	-16.26754	2.47100	-0.23814	-1.32637	0.89306	-0.00312	3.24914	0.22448	0.00406	1.20372
5.85823	-16.38850	2.48141	-0.23222	-1.32756	0.89610	-0.00311	3.25145	0.22471	0.00384	1.20905
5.99520	-16.51356	2.49340	-0.22650	-1.32868	0.89919	-0.00310	3.25219	0.22500	0.00364	1.21433
6.13497	-16.64504	2.50797	-0.22187	-1.32951	0.90250	-0.00309	3.25211	0.22522	0.00348	1.21944
6.28141	-16.76679	2.51947	-0.21678	-1.33053	0.90550	-0.00308	3.25405	0.22539	0.00329	1.22504
6.42674	-16.87960	2.52832	-0.21061	-1.33185	0.90809	-0.00307	3.25602	0.22566	0.00306	1.23097
6.57895	-17.00632	2.54069	-0.20488	-1.33302	0.91104	-0.00306	3.25650	0.22594	0.00286	1.23695
6.73401	-17.13853	2.55556	-0.20042	-1.33389	0.91419	-0.00305	3.25672	0.22613	0.00272	1.24272
6.89180	-17.25128	2.56520	-0.19532	-1.33501	0.91676	-0.00304	3.25907	0.22629	0.00253	1.24892
7.05716	-17.36075	2.57248	-0.18868	-1.33649	0.91908	-0.00303	3.26109	0.22659	0.00228	1.25572
7.22022	-17.47838	2.58301	-0.18287	-1.33775	0.92160	-0.00302	3.26167	0.22688	0.00208	1.26197
7.39098	-17.60960	2.59750	-0.17817	-1.33875	0.92452	-0.00300	3.26192	0.22708	0.00193	1.26782
7.56430	-17.72395	2.60821	-0.17376	-1.33976	0.92703	-0.00299	3.26405	0.22720	0.00178	1.27347
7.73994	-17.81472	2.61166	-0.16738	-1.34125	0.92876	-0.00299	3.26649	0.22746	0.00153	1.27944
7.92393	-17.91974	2.61826	-0.16088	-1.34272	0.93079	-0.00298	3.26755	0.22778	0.00128	1.28500
8.11030	-18.03497	2.62813	-0.15509	-1.34403	0.93308	-0.00297	3.26790	0.22807	0.00108	1.28984
8.29876	-18.16131	2.64211	-0.15080	-1.34505	0.93571	-0.00295	3.26854	0.22825	0.00095	1.29380
8.49618	-18.25866	2.64824	-0.14606	-1.34622	0.93760	-0.00294	3.27112	0.22838	0.00078	1.29805
8.69565	-18.32823	2.64622	-0.13937	-1.34775	0.93866	-0.00294	3.27335	0.22865	0.00048	1.30287
8.90472	-18.41703	2.64876	-0.13280	-1.34923	0.94014	-0.00293	3.27439	0.22895	0.00021	1.30745
9.11577	-18.51081	2.65307	-0.12663	-1.35062	0.94173	-0.00292	3.27499	0.22924	-0.00004	1.31181
9.32836	-18.62743	2.66396	-0.12137	-1.35188	0.94391	-0.00291	3.27457	0.22954	-0.00022	1.31571
9.54198	-18.72775	2.67194	-0.11725	-1.35293	0.94576	-0.00290	3.27598	0.22968	-0.00036	1.31964
9.76563	-18.76816	2.66393	-0.11191	-1.35407	0.94608	-0.00290	3.27989	0.22972	-0.00064	1.32509
10.00000	-18.80728	2.65484	-0.10586	-1.35526	0.94628	-0.00289	3.28353	0.22976	-0.00096	1.33145

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Low stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 61 - 152 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-1.21592	2.13676	-0.20131	-2.59252	0.95575	-0.00122	6.87805	0.30038	0.00882	0.37065
PGV	6.60130	1.59704	-0.19940	-3.09254	0.95516	-0.00078	11.00896	0.28550	0.00384	0.43392
PGA	2.51308	1.46310	-0.08094	-2.80587	0.51188	-0.00109	5.63003	0.44893	-0.02577	0.75508
0.01000	2.55971	1.47004	-0.07990	-2.81100	0.49686	-0.00108	5.66360	0.45186	-0.01394	0.76596
0.01024	2.57063	1.47037	-0.07970	-2.81281	0.49656	-0.00108	5.67404	0.45183	-0.01398	0.76647
0.01048	2.58296	1.47072	-0.07949	-2.81488	0.49627	-0.00108	5.68617	0.45178	-0.01402	0.76698
0.01072	2.59683	1.47109	-0.07926	-2.81721	0.49600	-0.00108	5.70013	0.45171	-0.01407	0.76749
0.01097	2.61241	1.47150	-0.07901	-2.81984	0.49575	-0.00107	5.71614	0.45161	-0.01413	0.76799
0.01123	2.62988	1.47195	-0.07875	-2.82280	0.49552	-0.00107	5.73438	0.45149	-0.01419	0.76850
0.01150	2.64944	1.47244	-0.07846	-2.82612	0.49529	-0.00107	5.75511	0.45133	-0.01426	0.76903
0.01177	2.67130	1.47298	-0.07815	-2.82984	0.49508	-0.00106	5.77856	0.45115	-0.01434	0.76958
0.01205	2.69582	1.47357	-0.07781	-2.83403	0.49486	-0.00106	5.80516	0.45093	-0.01444	0.77016
0.01233	2.72332	1.47423	-0.07744	-2.83874	0.49463	-0.00106	5.83526	0.45067	-0.01454	0.77078
0.01262	2.75404	1.47497	-0.07703	-2.84401	0.49439	-0.00105	5.86909	0.45038	-0.01465	0.77143
0.01292	2.78838	1.47579	-0.07658	-2.84991	0.49414	-0.00105	5.90719	0.45005	-0.01477	0.77215
0.01322	2.82675	1.47670	-0.07609	-2.85651	0.49386	-0.00104	5.95009	0.44968	-0.01491	0.77294
0.01353	2.86947	1.47773	-0.07554	-2.86385	0.49354	-0.00104	5.99816	0.44927	-0.01506	0.77383
0.01385	2.91745	1.47889	-0.07494	-2.87210	0.49322	-0.00103	6.05254	0.44880	-0.01522	0.77483
0.01417	2.97117	1.48021	-0.07427	-2.88134	0.49288	-0.00102	6.11381	0.44828	-0.01541	0.77599
0.01451	3.03014	1.48168	-0.07352	-2.89146	0.49248	-0.00101	6.18128	0.44773	-0.01563	0.77736
0.01485	3.09416	1.48330	-0.07269	-2.90240	0.49199	-0.00100	6.25456	0.44716	-0.01587	0.77896
0.01520	3.16418	1.48512	-0.07177	-2.91434	0.49140	-0.00099	6.33473	0.44657	-0.01614	0.78083
0.01556	3.24064	1.48716	-0.07075	-2.92735	0.49067	-0.00098	6.42228	0.44597	-0.01644	0.78298
0.01592	3.32193	1.48944	-0.06961	-2.94113	0.48980	-0.00097	6.51492	0.44541	-0.01676	0.78534
0.01630	3.40526	1.49195	-0.06835	-2.95513	0.48867	-0.00097	6.60856	0.44496	-0.01709	0.78783
0.01668	3.48656	1.49462	-0.06695	-2.96853	0.48698	-0.00096	6.69723	0.44473	-0.01741	0.79040
0.01707	3.56316	1.49735	-0.06542	-2.98075	0.48448	-0.00095	6.77742	0.44476	-0.01776	0.79317
0.01748	3.63592	1.50016	-0.06373	-2.99191	0.48117	-0.00095	6.85049	0.44505	-0.01814	0.79630
0.01789	3.70558	1.50310	-0.06189	-3.00218	0.47717	-0.00094	6.91740	0.44557	-0.01858	0.79986
0.01831	3.77430	1.50628	-0.05993	-3.01202	0.47267	-0.00094	6.98138	0.44628	-0.01907	0.80391
0.01874	3.84340	1.50981	-0.05791	-3.02177	0.46747	-0.00094	7.04421	0.44715	-0.01962	0.80837
0.01918	3.91192	1.51382	-0.05585	-3.03137	0.46143	-0.00094	7.10414	0.44824	-0.02020	0.81306
0.01963	3.97380	1.51835	-0.05377	-3.03993	0.45476	-0.00094	7.15258	0.44965	-0.02074	0.81762
0.02009	4.01844	1.52308	-0.05165	-3.04547	0.44773	-0.00094	7.17565	0.45149	-0.02121	0.82172
0.02057	4.04260	1.52744	-0.04952	-3.04708	0.44028	-0.00095	7.17001	0.45374	-0.02163	0.82548
0.02105	4.04580	1.53133	-0.04736	-3.04456	0.43235	-0.00096	7.13470	0.45640	-0.02202	0.82917
0.02154	4.01631	1.53491	-0.04507	-3.03600	0.42377	-0.00098	7.05085	0.45984	-0.02237	0.83266
0.02205	3.94456	1.53837	-0.04264	-3.01981	0.41411	-0.00101	6.90436	0.46437	-0.02265	0.83572
0.02257	3.83565	1.54183	-0.04006	-2.99709	0.40357	-0.00104	6.70607	0.46986	-0.02286	0.83825
0.02310	3.69916	1.54547	-0.03736	-2.96974	0.39274	-0.00109	6.47420	0.47608	-0.02294	0.83995
0.02364	3.56453	1.54955	-0.03478	-2.94348	0.38217	-0.00113	6.24736	0.48234	-0.02280	0.84024
0.02420	3.45465	1.55375	-0.03254	-2.92242	0.37218	-0.00115	6.05289	0.48803	-0.02258	0.83981
0.02477	3.36370	1.55804	-0.03055	-2.90535	0.36337	-0.00118	5.88451	0.49321	-0.02246	0.83993
0.02535	3.27973	1.56281	-0.02858	-2.89020	0.35607	-0.00120	5.72919	0.49819	-0.02245	0.84047
0.02595	3.19222	1.56747	-0.02657	-2.87442	0.34958	-0.00122	5.57510	0.50318	-0.02245	0.84090
0.02656	3.09742	1.57192	-0.02456	-2.85726	0.34359	-0.00125	5.41698	0.50828	-0.02238	0.84081
0.02719	2.98280	1.57636	-0.02251	-2.83672	0.33788	-0.00129	5.23945	0.51387	-0.02217	0.83981
0.02783	2.84100	1.58014	-0.02047	-2.81070	0.33052	-0.00133	5.03487	0.52021	-0.02193	0.83868
0.02848	2.68066	1.58262	-0.01862	-2.78003	0.31993	-0.00136	4.81472	0.52712	-0.02181	0.83849
0.02915	2.50509	1.58368	-0.01698	-2.74540	0.30599	-0.00139	4.58290	0.53453	-0.02169	0.83857
0.02984	2.32159	1.58373	-0.01551	-2.70869	0.29022	-0.00142	4.34829	0.54224	-0.02137	0.83763
0.03054	2.15181	1.58388	-0.01414	-2.67475	0.27595	-0.00144	4.13661	0.54955	-0.02093	0.83593
0.03126	1.99839	1.58417	-0.01286	-2.64403	0.26375	-0.00147	3.95122	0.55626	-0.02059	0.83481
0.03199	1.85367	1.58409	-0.01165	-2.61437	0.25282	-0.00149	3.78466	0.56256	-0.02040	0.83449
0.03275	1.72115	1.58419	-0.01041	-2.58665	0.24360	-0.00153	3.64002	0.56837	-0.02021	0.83411
0.03352	1.59287	1.58567	-0.00895	-2.56088	0.23607	-0.00157	3.50353	0.57423	-0.01998	0.83366
0.03430	1.44387	1.58785	-0.00714	-2.53275	0.22955	-0.00161	3.34542	0.58102	-0.01981	0.83362
0.03511	1.27766	1.58871	-0.00527	-2.50124	0.22196	-0.00164	3.16902	0.58858	-0.01975	0.83429
0.03594	1.11727	1.58797	-0.00371	-2.46991	0.21278	-0.00166	2.99962	0.59603	-0.01974	0.83530
0.03678	0.97483	1.58655	-0.00260	-2.44130	0.20428	-0.00168	2.85365	0.60269	-0.01974	0.83647
0.03765	0.84124	1.58471	-0.00187	-2.41378	0.19641	-0.00170	2.72296	0.60886	-0.01969	0.83748
0.03854	0.70178	1.58289	-0.00129	-2.38538	0.18756	-0.00172	2.58914	0.61548	-0.01946	0.83735
0.03944	0.55079	1.58127	-0.00062	-2.35552	0.17849	-0.00173	2.44631	0.62290	-0.01920	0.83679
0.04037	0.39865	1.58027	0.00030	-2.32612	0.17117	-0.00176	2.30786	0.63051	-0.01915	0.83744
0.04132	0.24355	1.58102	0.00168	-2.29765	0.16617	-0.00179	2.17501	0.63842	-0.01919	0.83855
0.04229	0.08450	1.58342	0.00344	-2.27020	0.16236	-0.00183	2.04292	0.64689	-0.01895	0.83772
0.04329	-0.06146	1.58537	0.00494	-2.24529	0.15780	-0.00185	1.91933	0.65525	-0.01828	0.83402
0.04431	-0.19031	1.58545	0.00582	-2.22219	0.15160	-0.00186	1.80821	0.66299	-0.01748	0.82963
0.04535	-0.29522	1.58435	0.00623	-2.20221	0.14529	-0.00187	1.71870	0.66943	-0.01696	0.82703

0.04642	-0.36656	1.58236	0.00621	-2.18700	0.13971	-0.00187	1.65700	0.67396	-0.01658	0.82539
0.04751	-0.41719	1.57920	0.00570	-2.17404	0.13548	-0.00188	1.61180	0.67718	-0.01598	0.82225
0.04863	-0.47559	1.57586	0.00496	-2.15929	0.13342	-0.00189	1.56444	0.68054	-0.01510	0.81701
0.04977	-0.54053	1.57307	0.00405	-2.14414	0.13398	-0.00192	1.51519	0.68404	-0.01417	0.81102
0.05094	-0.58760	1.56993	0.00274	-2.13254	0.13598	-0.00193	1.47657	0.68650	-0.01336	0.80560
0.05214	-0.62756	1.56549	0.00132	-2.12153	0.13719	-0.00194	1.44100	0.68854	-0.01265	0.80110
0.05337	-0.68778	1.55946	0.00010	-2.10540	0.13626	-0.00195	1.39372	0.69156	-0.01198	0.79718
0.05462	-0.75875	1.55224	-0.00124	-2.08600	0.13182	-0.00195	1.34028	0.69534	-0.01137	0.79361
0.05591	-0.81467	1.54550	-0.00288	-2.06970	0.12446	-0.00194	1.29480	0.69878	-0.01074	0.78976
0.05722	-0.86053	1.54044	-0.00439	-2.05682	0.11654	-0.00191	1.25627	0.70192	-0.00994	0.78492
0.05857	-0.91455	1.53718	-0.00546	-2.04374	0.10980	-0.00190	1.21819	0.70536	-0.00922	0.78092
0.05995	-0.98013	1.53559	-0.00614	-2.02929	0.10450	-0.00190	1.17988	0.70925	-0.00886	0.77960
0.06136	-1.05034	1.53430	-0.00682	-2.01366	0.09856	-0.00191	1.14187	0.71342	-0.00862	0.77962
0.06280	-1.10902	1.53120	-0.00821	-1.99861	0.08868	-0.00190	1.10687	0.71723	-0.00829	0.77926
0.06428	-1.13898	1.52540	-0.01072	-1.98731	0.07477	-0.00186	1.08035	0.71970	-0.00800	0.77903
0.06579	-1.14849	1.51794	-0.01376	-1.97911	0.06122	-0.00181	1.06133	0.72085	-0.00799	0.78046
0.06734	-1.16791	1.51070	-0.01634	-1.96925	0.05298	-0.00178	1.04103	0.72200	-0.00832	0.78383
0.06893	-1.20932	1.50548	-0.01808	-1.95658	0.05213	-0.00178	1.01661	0.72384	-0.00866	0.78692
0.07055	-1.24930	1.50259	-0.01961	-1.94597	0.05763	-0.00181	0.99758	0.72522	-0.00860	0.78722
0.07221	-1.27184	1.50026	-0.02158	-1.93924	0.06428	-0.00184	0.98680	0.72558	-0.00816	0.78478
0.07391	-1.29148	1.49713	-0.02388	-1.93262	0.06680	-0.00185	0.97498	0.72605	-0.00761	0.78133
0.07565	-1.32827	1.49282	-0.02606	-1.92210	0.06488	-0.00184	0.95438	0.72758	-0.00723	0.77875
0.07743	-1.38391	1.48650	-0.02817	-1.90685	0.06201	-0.00184	0.92616	0.72966	-0.00701	0.77691
0.07925	-1.44089	1.47797	-0.03047	-1.89006	0.06326	-0.00186	0.89917	0.73082	-0.00662	0.77429
0.08111	-1.48407	1.46860	-0.03298	-1.87556	0.07041	-0.00189	0.87983	0.73039	-0.00608	0.77147
0.08302	-1.50489	1.46036	-0.03561	-1.86613	0.08107	-0.00191	0.87110	0.72860	-0.00564	0.76998
0.08498	-1.49565	1.45436	-0.03847	-1.86379	0.09215	-0.00193	0.87589	0.72546	-0.00542	0.76997
0.08697	-1.45638	1.45055	-0.04169	-1.86838	0.10230	-0.00193	0.89470	0.72096	-0.00542	0.77104
0.08902	-1.40948	1.44857	-0.04507	-1.87552	0.11102	-0.00192	0.91832	0.71632	-0.00543	0.77197
0.09112	-1.38642	1.44768	-0.04824	-1.87908	0.11678	-0.00193	0.93189	0.71335	-0.00510	0.77074
0.09326	-1.39830	1.44682	-0.05103	-1.87631	0.11837	-0.00193	0.92924	0.71266	-0.00437	0.76704
0.09545	-1.43042	1.44510	-0.05360	-1.86923	0.11719	-0.00194	0.91721	0.71312	-0.00353	0.76259
0.09770	-1.46022	1.44194	-0.05618	-1.86175	0.11747	-0.00194	0.90696	0.71294	-0.00286	0.75900
0.10000	-1.46775	1.43789	-0.05890	-1.85812	0.12299	-0.00194	0.90843	0.71067	-0.00245	0.75673
0.10235	-1.44831	1.43474	-0.06164	-1.86066	0.13418	-0.00195	0.92395	0.70639	-0.00223	0.75566
0.10476	-1.41365	1.43294	-0.06452	-1.86751	0.14762	-0.00196	0.94695	0.70129	-0.00209	0.75562
0.10723	-1.38184	1.43163	-0.06763	-1.87455	0.15843	-0.00195	0.96711	0.69678	-0.00195	0.75622
0.10975	-1.36107	1.43076	-0.07055	-1.88026	0.16470	-0.00193	0.98042	0.69337	-0.00165	0.75621
0.11233	-1.34863	1.43023	-0.07297	-1.88483	0.16804	-0.00191	0.99043	0.69053	-0.00101	0.75407
0.11498	-1.34440	1.42917	-0.07505	-1.88677	0.17224	-0.00191	0.99970	0.68775	-0.00004	0.74966
0.11768	-1.34803	1.42700	-0.07713	-1.88503	0.17912	-0.00193	1.00949	0.68482	0.00103	0.74457
0.12045	-1.35496	1.42386	-0.07955	-1.88062	0.18646	-0.00197	1.02118	0.68167	0.00192	0.74053
0.12328	-1.36459	1.42001	-0.08242	-1.87450	0.19297	-0.00201	1.03412	0.67833	0.00248	0.73861
0.12619	-1.38116	1.41558	-0.08551	-1.86677	0.19929	-0.00205	1.04493	0.67503	0.00261	0.73934
0.12916	-1.40559	1.41060	-0.08847	-1.85774	0.20478	-0.00208	1.05082	0.67207	0.00244	0.74177
0.13219	-1.44372	1.40510	-0.09112	-1.84621	0.20773	-0.00210	1.04635	0.67022	0.00230	0.74369
0.13531	-1.50664	1.39939	-0.09337	-1.82998	0.20700	-0.00212	1.02458	0.67054	0.00241	0.74353
0.13849	-1.59017	1.39421	-0.09523	-1.81037	0.20315	-0.00213	0.98910	0.67284	0.00278	0.74130
0.14175	-1.68253	1.39022	-0.09691	-1.79019	0.19754	-0.00214	0.94860	0.67622	0.00317	0.73859
0.14508	-1.77277	1.38762	-0.09872	-1.77159	0.19181	-0.00215	0.91026	0.67979	0.00320	0.73754
0.14850	-1.86751	1.38576	-0.10089	-1.75256	0.18674	-0.00217	0.87034	0.68394	0.00275	0.73872
0.15199	-1.96402	1.38395	-0.10350	-1.73314	0.18452	-0.00220	0.83017	0.68830	0.00201	0.74143
0.15557	-2.05388	1.38194	-0.10644	-1.71516	0.18720	-0.00224	0.79360	0.69207	0.00111	0.74518
0.15923	-2.12264	1.38006	-0.10952	-1.70218	0.19553	-0.00228	0.76745	0.69404	0.00018	0.74972
0.16298	-2.15344	1.37909	-0.11246	-1.69828	0.20936	-0.00231	0.76038	0.69277	-0.00068	0.75461
0.16681	-2.14265	1.37918	-0.11516	-1.70396	0.22634	-0.00233	0.77554	0.68788	-0.00141	0.75954
0.17074	-2.10256	1.37938	-0.11783	-1.71527	0.24291	-0.00233	0.80844	0.68031	-0.00201	0.76416
0.17475	-2.04626	1.37845	-0.12096	-1.72788	0.25604	-0.00232	0.85341	0.67120	-0.00246	0.76801
0.17887	-1.97878	1.37620	-0.12489	-1.74034	0.26462	-0.00230	0.90770	0.66124	-0.00279	0.77121
0.18307	-1.90436	1.37307	-0.12954	-1.75230	0.26787	-0.00227	0.96853	0.65113	-0.00304	0.77395
0.18738	-1.83409	1.36971	-0.13444	-1.76250	0.26502	-0.00222	1.02876	0.64199	-0.00309	0.77551
0.19179	-1.78696	1.36657	-0.13908	-1.76817	0.25617	-0.00216	1.07516	0.63523	-0.00283	0.77498
0.19631	-1.79344	1.36324	-0.14312	-1.76351	0.24104	-0.00211	1.08562	0.63288	-0.00225	0.77226
0.20092	-1.87307	1.35915	-0.14648	-1.74455	0.22106	-0.00207	1.04642	0.63612	-0.00148	0.76799
0.20565	-2.01542	1.35476	-0.14930	-1.71379	0.20029	-0.00205	0.96776	0.64420	-0.00071	0.76359
0.21049	-2.19032	1.35125	-0.15174	-1.67820	0.18343	-0.00206	0.87445	0.65493	-0.00008	0.76033
0.21544	-2.36853	1.34936	-0.15402	-1.64425	0.17298	-0.00209	0.78742	0.66584	0.00050	0.75775
0.22051	-2.53027	1.34868	-0.15645	-1.61550	0.16870	-0.00213	0.71708	0.67496	0.00105	0.75532
0.22570	-2.65247	1.34867	-0.15924	-1.59588	0.17063	-0.00217	0.67271	0.67995	0.00152	0.75316
0.23101	-2.72309	1.34906	-0.16242	-1.58719	0.17863	-0.00220	0.65715	0.67963	0.00180	0.75198
0.23645	-2.74284	1.34985	-0.16594	-1.58880	0.19136	-0.00222	0.66835	0.67435	0.00179	0.75257
0.24201	-2.72119	1.35128	-0.16974	-1.59870	0.20800	-0.00222	0.70172	0.66548	0.00151	0.75519
0.24771	-2.66631	1.35361	-0.17374	-1.61531	0.22875	-0.00222	0.75462	0.65416	0.00105	0.75927
0.25354	-2.59416	1.35669	-0.17783	-1.63521	0.25302	-0.00223	0.82048	0.64199	0.00058	0.76392
0.25950	-2.51884	1.36044	-0.18185	-1.65566	0.28086	-0.00225	0.89249	0.63019	0.00025	0.76814
0.26561	-2.44938	1.36464	-0.18572	-1.67496	0.31189	-0.00229	0.96464	0.61943	0.00013	0.77129
0.27186	-2.38501	1.36904	-0.18945	-1.69356	0.34605	-0.00235	1.03620	0.60942	0.00018	0.77346
0.27826	-2.32770	1.37312	-0.19313	-1.71102	0.38112	-0.00241	1.10501	0.60005	0.00028	0.77545
0.28480	-2.28065	1.37614	-0.19688	-1.72623	0.41253	-0.00246	1.16813	0.59134	0.00034	0.77767
0.29150	-2.23879	1.37782	-0.20092	-1.73998	0.43715	-0.00249	1.22989	0.58263	0.00034	0.78026
0.29836	-2.19317	1.37842	-0.20543	-1.75424	0.45493	-0.00249	1.29876	0.57313	0.00025	0.78333

0.30539	-2.14064	1.37853	-0.21044	-1.77006	0.46719	-0.00246	1.37963	0.56262	0.00007	0.78680
0.31257	-2.09059	1.37858	-0.21585	-1.78567	0.47428	-0.00241	1.46579	0.55198	-0.00014	0.79031
0.31993	-2.06585	1.37873	-0.22145	-1.79652	0.47597	-0.00236	1.53650	0.54300	-0.00036	0.79385
0.32745	-2.09674	1.37918	-0.22676	-1.79661	0.47175	-0.00232	1.56163	0.53787	-0.00058	0.79734
0.33517	-2.19996	1.38006	-0.23147	-1.78267	0.46197	-0.00230	1.52346	0.53784	-0.00079	0.80078
0.34304	-2.36755	1.38139	-0.23549	-1.75628	0.44820	-0.00231	1.43012	0.54260	-0.00101	0.80429
0.35112	-2.58465	1.38280	-0.23897	-1.72006	0.43118	-0.00232	1.29944	0.55129	-0.00128	0.80797
0.35938	-2.82674	1.38375	-0.24216	-1.67824	0.41131	-0.00235	1.15600	0.56246	-0.00163	0.81204
0.36784	-3.06591	1.38433	-0.24529	-1.63645	0.39019	-0.00237	1.02393	0.57412	-0.00215	0.81710
0.37649	-3.27696	1.38500	-0.24855	-1.60009	0.37003	-0.00238	0.91966	0.58419	-0.00292	0.82374
0.38536	-3.45214	1.38605	-0.25198	-1.57112	0.35283	-0.00238	0.84486	0.59167	-0.00398	0.83212
0.39442	-3.59909	1.38753	-0.25553	-1.54804	0.33940	-0.00239	0.79165	0.59687	-0.00523	0.84155
0.40370	-3.72849	1.38948	-0.25924	-1.52879	0.33024	-0.00241	0.75195	0.60045	-0.00646	0.85080
0.41321	-3.84911	1.39175	-0.26317	-1.51158	0.32560	-0.00244	0.71911	0.60313	-0.00749	0.85876
0.42292	-3.96480	1.39408	-0.26734	-1.49547	0.32475	-0.00248	0.69012	0.60522	-0.00824	0.86518
0.43288	-4.07349	1.39640	-0.27179	-1.48083	0.32694	-0.00252	0.66630	0.60636	-0.00870	0.87031
0.44307	-4.17311	1.39867	-0.27644	-1.46808	0.33214	-0.00257	0.64869	0.60629	-0.00893	0.87479
0.45349	-4.26155	1.40098	-0.28129	-1.45776	0.34042	-0.00262	0.63833	0.60479	-0.00903	0.87942
0.46417	-4.34033	1.40349	-0.28627	-1.44971	0.35055	-0.00266	0.63441	0.60201	-0.00905	0.88430
0.47508	-4.41367	1.40630	-0.29135	-1.44323	0.36046	-0.00270	0.63485	0.59833	-0.00893	0.88872
0.48626	-4.48337	1.40937	-0.29656	-1.43794	0.36846	-0.00273	0.63865	0.59396	-0.00861	0.89201
0.49771	-4.54833	1.41255	-0.30190	-1.43392	0.37398	-0.00274	0.64646	0.58881	-0.00809	0.89395
0.50942	-4.60707	1.41596	-0.30735	-1.43149	0.37737	-0.00273	0.65935	0.58275	-0.00739	0.89473
0.52140	-4.66110	1.41971	-0.31274	-1.43039	0.37897	-0.00272	0.67651	0.57606	-0.00663	0.89501
0.53367	-4.71261	1.42376	-0.31796	-1.43001	0.37934	-0.00269	0.69628	0.56915	-0.00597	0.89589
0.54624	-4.76011	1.42807	-0.32296	-1.43055	0.37998	-0.00266	0.71898	0.56209	-0.00555	0.89825
0.55910	-4.80104	1.43278	-0.32772	-1.43262	0.38278	-0.00264	0.74633	0.55473	-0.00539	0.90225
0.57225	-4.83553	1.43810	-0.33225	-1.43628	0.38880	-0.00262	0.77874	0.54712	-0.00540	0.90730
0.58569	-4.86435	1.44412	-0.33659	-1.44138	0.39827	-0.00262	0.81593	0.53943	-0.00550	0.91263
0.59948	-4.88951	1.45074	-0.34081	-1.44747	0.41072	-0.00262	0.85653	0.53193	-0.00560	0.91781
0.61357	-4.91365	1.45771	-0.34490	-1.45378	0.42527	-0.00264	0.89773	0.52496	-0.00571	0.92278
0.62802	-4.93812	1.46495	-0.34888	-1.46002	0.44119	-0.00266	0.93880	0.51853	-0.00583	0.92762
0.64280	-4.96382	1.47232	-0.35276	-1.46589	0.45742	-0.00269	0.97926	0.51253	-0.00597	0.93230
0.65794	-4.99106	1.47968	-0.35663	-1.47126	0.47313	-0.00271	1.01909	0.50685	-0.00608	0.93652
0.67340	-5.01940	1.48692	-0.36051	-1.47623	0.48779	-0.00274	1.05834	0.50139	-0.00607	0.93969
0.68927	-5.04650	1.49408	-0.36449	-1.48153	0.50157	-0.00276	1.09925	0.49589	-0.00582	0.94112
0.70547	-5.07129	1.50120	-0.36852	-1.48752	0.51447	-0.00277	1.14290	0.49023	-0.00526	0.94016
0.72207	-5.09491	1.50841	-0.37257	-1.49421	0.52637	-0.00278	1.18965	0.48434	-0.00437	0.93653
0.73910	-5.11871	1.51576	-0.37660	-1.50139	0.53703	-0.00278	1.23907	0.47824	-0.00319	0.93019
0.75649	-5.14494	1.52322	-0.38056	-1.50860	0.54670	-0.00278	1.28914	0.47209	-0.00172	0.92113
0.77429	-5.17787	1.53067	-0.38447	-1.51488	0.55510	-0.00277	1.33535	0.46626	0.00003	0.90922
0.79246	-5.21950	1.53801	-0.38834	-1.51963	0.56203	-0.00276	1.37441	0.46102	0.00202	0.89464
0.81116	-5.27200	1.54529	-0.39217	-1.52244	0.56756	-0.00276	1.40454	0.45643	0.00418	0.87806
0.83022	-5.33418	1.55250	-0.39585	-1.52346	0.57221	-0.00276	1.42646	0.45243	0.00637	0.86089
0.84976	-5.40761	1.55974	-0.39931	-1.52245	0.57595	-0.00276	1.43968	0.44898	0.00846	0.84421
0.86972	-5.49336	1.56696	-0.40252	-1.51905	0.57854	-0.00277	1.44336	0.44611	0.01035	0.82915
0.89023	-5.59274	1.57408	-0.40557	-1.51287	0.57968	-0.00278	1.43697	0.44383	0.01198	0.81653
0.91116	-5.70366	1.58091	-0.40853	-1.50406	0.57922	-0.00279	1.42191	0.44203	0.01333	0.80702
0.93257	-5.82460	1.58744	-0.41150	-1.49294	0.57724	-0.00281	1.39992	0.44061	0.01443	0.80046
0.95456	-5.95404	1.59372	-0.41451	-1.48008	0.57436	-0.00284	1.37330	0.43934	0.01534	0.79645
0.97704	-6.08922	1.59986	-0.41756	-1.46626	0.57152	-0.00286	1.34511	0.43797	0.01612	0.79452
1.00000	-6.22810	1.60597	-0.42064	-1.45215	0.56952	-0.00289	1.31819	0.43620	0.01679	0.79432
1.02354	-6.36980	1.61216	-0.42376	-1.43818	0.56859	-0.00293	1.29470	0.43376	0.01733	0.79568
1.04767	-6.51316	1.61848	-0.42689	-1.42468	0.56894	-0.00296	1.27633	0.43049	0.01774	0.79847
1.07227	-6.65687	1.62492	-0.42998	-1.41186	0.57068	-0.00300	1.26372	0.42636	0.01801	0.80237
1.09745	-6.79968	1.63156	-0.43297	-1.40008	0.57421	-0.00304	1.25865	0.42126	0.01820	0.80706
1.12334	-6.94041	1.63846	-0.43586	-1.38969	0.57954	-0.00308	1.26281	0.41510	0.01833	0.81224
1.14982	-7.07644	1.64556	-0.43860	-1.38109	0.58647	-0.00312	1.27853	0.40779	0.01845	0.81758
1.17675	-7.20568	1.65274	-0.44116	-1.37453	0.59465	-0.00316	1.30818	0.39920	0.01858	0.82263
1.20453	-7.32893	1.66001	-0.44356	-1.37008	0.60448	-0.00320	1.35527	0.38900	0.01876	0.82701
1.23289	-7.44598	1.66731	-0.44574	-1.36755	0.61571	-0.00324	1.42028	0.37735	0.01903	0.83004
1.26183	-7.55945	1.67471	-0.44767	-1.36640	0.62814	-0.00327	1.50178	0.36458	0.01947	0.83106
1.29149	-7.67338	1.68235	-0.44933	-1.36592	0.64109	-0.00330	1.59654	0.35108	0.02016	0.82964
1.32188	-7.79065	1.69027	-0.45068	-1.36546	0.65388	-0.00333	1.70037	0.33733	0.02110	0.82580
1.35300	-7.91333	1.69851	-0.45166	-1.36449	0.66574	-0.00335	1.80863	0.32376	0.02221	0.82010
1.38485	-8.04150	1.70704	-0.45229	-1.36280	0.67616	-0.00337	1.91807	0.31069	0.02342	0.81342
1.41743	-8.17383	1.71578	-0.45261	-1.36049	0.68513	-0.00338	2.02691	0.29828	0.02461	0.80665
1.45075	-8.30842	1.72466	-0.45264	-1.35778	0.69301	-0.00339	2.13434	0.28661	0.02573	0.80041
1.48500	-8.44488	1.73367	-0.45245	-1.35481	0.70006	-0.00340	2.23982	0.27570	0.02674	0.79502
1.51999	-8.58195	1.74275	-0.45204	-1.35163	0.70637	-0.00341	2.34068	0.26571	0.02761	0.79072
1.55569	-8.71903	1.75194	-0.45142	-1.34836	0.71213	-0.00342	2.43611	0.25666	0.02834	0.78755
1.59236	-8.85712	1.76135	-0.45061	-1.34500	0.71741	-0.00343	2.52543	0.24848	0.02894	0.78545
1.62973	-8.99585	1.77098	-0.44962	-1.34147	0.72213	-0.00343	2.60653	0.24124	0.02941	0.78439
1.66806	-9.13678	1.78092	-0.44845	-1.33762	0.72629	-0.00344	2.67889	0.23484	0.02977	0.78432
1.70736	-9.28036	1.79121	-0.44710	-1.33337	0.72990	-0.00345	2.74142	0.22923	0.02999	0.78533
1.74764	-9.42588	1.80186	-0.44559	-1.32889	0.73323	-0.00346	2.79489	0.22435	0.03008	0.78752
1.78859	-9.57191	1.81279	-0.44393	-1.32426	0.73630	-0.00346	2.83897	0.22021	0.03003	0.79090
1.83083	-9.72035	1.82414	-0.44213	-1.31949	0.73909	-0.00347	2.87433	0.21671	0.02986	0.79546
1.87371	-9.86803	1.83568	-0.44021	-1.31477	0.74172	-0.00347	2.90159	0.21384	0.02957	0.80107
1.91791	-10.01627	1.84749	-0.43817	-1.31018	0.74441	-0.00348	2.92288	0.21148	0.02918	0.80773
1.96309	-10.16312	1.85939	-0.43605	-1.30583	0.74718	-0.00348	2.93922	0.20958	0.02870	0.81518

2.00924	-10.30806	1.87132	-0.43388	-1.30177	0.75006	-0.00349	2.95155	0.20808	0.02817	0.82316
2.05634	-10.45096	1.88322	-0.43165	-1.29800	0.75299	-0.00349	2.96010	0.20696	0.02759	0.83143
2.10482	-10.59303	1.89518	-0.42937	-1.29446	0.75598	-0.00350	2.96523	0.20616	0.02699	0.83981
2.15424	-10.73323	1.90707	-0.42704	-1.29112	0.75894	-0.00350	2.96672	0.20568	0.02638	0.84797
2.20507	-10.87313	1.91902	-0.42465	-1.28793	0.76186	-0.00350	2.96458	0.20549	0.02576	0.85580
2.25683	-11.01164	1.93096	-0.42220	-1.28490	0.76472	-0.00350	2.95885	0.20558	0.02513	0.86327
2.31000	-11.15025	1.94305	-0.41966	-1.28201	0.76755	-0.00350	2.94984	0.20595	0.02450	0.87049
2.36463	-11.28911	1.95532	-0.41703	-1.27927	0.77037	-0.00351	2.93803	0.20655	0.02385	0.87752
2.42014	-11.42685	1.96770	-0.41433	-1.27675	0.77320	-0.00351	2.92427	0.20735	0.02321	0.88440
2.47709	-11.56493	1.98030	-0.41152	-1.27441	0.77607	-0.00351	2.90896	0.20831	0.02256	0.89131
2.53550	-11.70337	1.99316	-0.40861	-1.27226	0.77900	-0.00351	2.89248	0.20941	0.02190	0.89842
2.59471	-11.84072	2.00614	-0.40563	-1.27032	0.78197	-0.00351	2.87538	0.21060	0.02124	0.90575
2.65604	-11.97976	2.01947	-0.40250	-1.26855	0.78505	-0.00350	2.85784	0.21189	0.02057	0.91353
2.71887	-12.11894	2.03303	-0.39927	-1.26699	0.78821	-0.00350	2.84026	0.21324	0.01989	0.92173
2.78242	-12.25649	2.04661	-0.39599	-1.26565	0.79141	-0.00350	2.82310	0.21461	0.01921	0.93029
2.84819	-12.39522	2.06044	-0.39257	-1.26448	0.79473	-0.00350	2.80635	0.21603	0.01853	0.93946
2.91545	-12.53376	2.07444	-0.38910	-1.26350	0.79812	-0.00350	2.79004	0.21746	0.01785	0.94919
2.98329	-12.66964	2.08819	-0.38556	-1.26269	0.80149	-0.00349	2.77486	0.21885	0.01718	0.95921
3.05344	-12.80661	2.10221	-0.38194	-1.26203	0.80496	-0.00349	2.76014	0.22026	0.01653	0.96954
3.12598	-12.94422	2.11627	-0.37818	-1.26151	0.80849	-0.00349	2.74621	0.22165	0.01588	0.97997
3.19898	-13.07883	2.13010	-0.37446	-1.26112	0.81198	-0.00348	2.73333	0.22298	0.01528	0.98993
3.27439	-13.21403	2.14397	-0.37061	-1.26085	0.81551	-0.00348	2.72116	0.22430	0.01469	0.99941
3.35121	-13.34765	2.15769	-0.36675	-1.26068	0.81903	-0.00347	2.70990	0.22556	0.01414	1.00811
3.43053	-13.48182	2.17142	-0.36276	-1.26061	0.82256	-0.00347	2.69931	0.22680	0.01362	1.01641
3.51124	-13.61430	2.18500	-0.35880	-1.26062	0.82607	-0.00346	2.68960	0.22798	0.01312	1.02439
3.59324	-13.74496	2.19825	-0.35473	-1.26073	0.82950	-0.00346	2.68079	0.22910	0.01264	1.03243
3.67782	-13.87649	2.21175	-0.35069	-1.26088	0.83298	-0.00345	2.67236	0.23019	0.01218	1.04094
3.76506	-14.00726	2.22482	-0.34640	-1.26113	0.83639	-0.00344	2.66501	0.23122	0.01172	1.05036
3.85356	-14.13815	2.23832	-0.34227	-1.26141	0.83982	-0.00344	2.65763	0.23223	0.01128	1.06042
3.94477	-14.26693	2.25103	-0.33788	-1.26178	0.84315	-0.00343	2.65173	0.23316	0.01085	1.07111
4.03714	-14.39675	2.26436	-0.33360	-1.26218	0.84649	-0.00342	2.64544	0.23409	0.01044	1.08197
4.13223	-14.52466	2.27712	-0.32921	-1.26262	0.84976	-0.00341	2.64047	0.23492	0.01005	1.09289
4.23012	-14.65365	2.28993	-0.32460	-1.26315	0.85299	-0.00341	2.63575	0.23576	0.00967	1.10357
4.32900	-14.78265	2.30328	-0.32026	-1.26367	0.85625	-0.00340	2.63099	0.23655	0.00932	1.11343
4.43066	-14.90757	2.31525	-0.31553	-1.26428	0.85932	-0.00339	2.62796	0.23725	0.00897	1.12269
4.53515	-15.03765	2.32860	-0.31087	-1.26491	0.86250	-0.00338	2.62394	0.23800	0.00865	1.13129
4.64253	-15.16605	2.34160	-0.30628	-1.26556	0.86564	-0.00337	2.62089	0.23866	0.00834	1.13925
4.75059	-15.28908	2.35321	-0.30131	-1.26628	0.86852	-0.00336	2.61887	0.23927	0.00804	1.14656
4.86145	-15.41906	2.36686	-0.29663	-1.26700	0.87161	-0.00335	2.61562	0.23994	0.00776	1.15328
4.97760	-15.54675	2.37953	-0.29181	-1.26776	0.87462	-0.00334	2.61389	0.24050	0.00748	1.15967
5.09424	-15.66933	2.39090	-0.28658	-1.26862	0.87738	-0.00333	2.61287	0.24104	0.00720	1.16561
5.21376	-15.80063	2.40483	-0.28175	-1.26944	0.88038	-0.00332	2.61034	0.24163	0.00694	1.17111
5.33618	-15.92585	2.41735	-0.27697	-1.27026	0.88324	-0.00331	2.60937	0.24211	0.00669	1.17634
5.46150	-16.04517	2.42788	-0.27155	-1.27122	0.88580	-0.00330	2.60949	0.24256	0.00642	1.18155
5.58971	-16.17496	2.44136	-0.26644	-1.27216	0.88864	-0.00329	2.60794	0.24309	0.00617	1.18660
5.72082	-16.30370	2.45502	-0.26177	-1.27304	0.89151	-0.00328	2.60689	0.24354	0.00594	1.19162
5.85823	-16.42095	2.46476	-0.25624	-1.27407	0.89394	-0.00327	2.60813	0.24390	0.00567	1.19714
5.99520	-16.54349	2.47630	-0.25075	-1.27512	0.89644	-0.00326	2.60793	0.24434	0.00541	1.20266
6.13497	-16.67587	2.49097	-0.24595	-1.27609	0.89926	-0.00324	2.60661	0.24480	0.00519	1.20810
6.28141	-16.79617	2.50218	-0.24099	-1.27709	0.90176	-0.00323	2.60767	0.24511	0.00496	1.21393
6.42674	-16.90416	2.51024	-0.23533	-1.27820	0.90380	-0.00322	2.60946	0.24541	0.00469	1.22000
6.57895	-17.02895	2.52227	-0.22977	-1.27934	0.90623	-0.00321	2.60947	0.24583	0.00444	1.22622
6.73401	-17.16299	2.53739	-0.22504	-1.28038	0.90897	-0.00320	2.60880	0.24622	0.00424	1.23231
6.89180	-17.27346	2.54665	-0.22017	-1.28142	0.91113	-0.00319	2.61092	0.24643	0.00402	1.23869
7.05716	-17.37662	2.55293	-0.21423	-1.28262	0.91292	-0.00318	2.61353	0.24668	0.00374	1.24559
7.22022	-17.49134	2.56298	-0.20870	-1.28379	0.91499	-0.00317	2.61437	0.24701	0.00350	1.25203
7.39098	-17.62417	2.57771	-0.20376	-1.28494	0.91754	-0.00315	2.61419	0.24737	0.00330	1.25818
7.56430	-17.73837	2.58838	-0.19934	-1.28599	0.91973	-0.00314	2.61611	0.24756	0.00311	1.26404
7.73994	-17.82098	2.59055	-0.19390	-1.28709	0.92102	-0.00313	2.61994	0.24767	0.00285	1.27002
7.92393	-17.91969	2.59617	-0.18811	-1.28829	0.92260	-0.00312	2.62220	0.24789	0.00258	1.27567
8.11030	-18.03198	2.60558	-0.18264	-1.28951	0.92449	-0.00311	2.62332	0.24818	0.00235	1.28068
8.29876	-18.16070	2.61991	-0.17801	-1.29069	0.92683	-0.00310	2.62373	0.24848	0.00218	1.28492
8.49618	-18.25460	2.62552	-0.17367	-1.29170	0.92843	-0.00309	2.62709	0.24855	0.00198	1.28926
8.69565	-18.31201	2.62164	-0.16844	-1.29267	0.92911	-0.00308	2.63183	0.24853	0.00170	1.29400
8.90472	-18.39191	2.62284	-0.16295	-1.29375	0.93023	-0.00307	2.63484	0.24864	0.00142	1.29860
9.11577	-18.47867	2.62609	-0.15763	-1.29483	0.93149	-0.00306	2.63714	0.24878	0.00115	1.30305
9.32836	-18.59423	2.63681	-0.15246	-1.29607	0.93333	-0.00305	2.63761	0.24908	0.00094	1.30715
9.54198	-18.69352	2.64463	-0.14845	-1.29709	0.93494	-0.00304	2.63973	0.24921	0.00077	1.31122
9.76563	-18.72024	2.63461	-0.14488	-1.29761	0.93515	-0.00304	2.64605	0.24891	0.00052	1.31656
10.00000	-18.74392	2.62329	-0.14088	-1.29810	0.93531	-0.00304	2.65213	0.24860	0.00021	1.32282

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Low stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 152 - 305 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-1.45401	2.14844	-0.27611	-2.51317	0.99387	-0.00143	6.59716	0.29456	0.01890	0.30787
PGV	7.42287	1.72299	-0.19835	-3.38722	1.15065	-0.00070	13.33263	0.26601	-0.00128	0.44595
PGA	3.38216	1.50964	-0.07848	-3.04134	0.70986	-0.00127	7.01219	0.41971	-0.02478	0.74804
0.01000	3.40527	1.51694	-0.07729	-3.04320	0.69465	-0.00127	7.02394	0.42281	-0.02096	0.78097
0.01024	3.41576	1.51725	-0.07710	-3.04498	0.69443	-0.00127	7.03460	0.42280	-0.02098	0.78139
0.01048	3.42770	1.51758	-0.07690	-3.04701	0.69425	-0.00126	7.04715	0.42276	-0.02101	0.78178
0.01072	3.44118	1.51793	-0.07670	-3.04932	0.69409	-0.00126	7.06171	0.42270	-0.02104	0.78215
0.01097	3.45636	1.51831	-0.07647	-3.05193	0.69397	-0.00126	7.07847	0.42261	-0.02108	0.78250
0.01123	3.47342	1.51872	-0.07623	-3.05487	0.69387	-0.00126	7.09762	0.42250	-0.02113	0.78284
0.01150	3.49258	1.51917	-0.07598	-3.05819	0.69380	-0.00125	7.11950	0.42237	-0.02118	0.78317
0.01177	3.51410	1.51966	-0.07570	-3.06193	0.69377	-0.00125	7.14442	0.42220	-0.02123	0.78351
0.01205	3.53822	1.52020	-0.07540	-3.06612	0.69377	-0.00125	7.17268	0.42200	-0.02130	0.78384
0.01233	3.56529	1.52080	-0.07507	-3.07084	0.69380	-0.00124	7.20475	0.42177	-0.02137	0.78420
0.01262	3.59579	1.52146	-0.07471	-3.07617	0.69387	-0.00124	7.24121	0.42149	-0.02145	0.78458
0.01292	3.63026	1.52221	-0.07432	-3.08221	0.69397	-0.00123	7.28281	0.42117	-0.02155	0.78501
0.01322	3.66918	1.52304	-0.07388	-3.08903	0.69412	-0.00123	7.33024	0.42080	-0.02165	0.78548
0.01353	3.71312	1.52396	-0.07341	-3.09673	0.69430	-0.00122	7.38433	0.42037	-0.02176	0.78600
0.01385	3.76259	1.52499	-0.07289	-3.10541	0.69453	-0.00121	7.44571	0.41987	-0.02189	0.78660
0.01417	3.81813	1.52616	-0.07230	-3.11515	0.69480	-0.00121	7.51503	0.41932	-0.02203	0.78731
0.01451	3.88052	1.52747	-0.07165	-3.12609	0.69511	-0.00120	7.59332	0.41870	-0.02218	0.78815
0.01485	3.94972	1.52896	-0.07093	-3.13821	0.69540	-0.00119	7.68034	0.41804	-0.02236	0.78914
0.01520	4.02472	1.53062	-0.07012	-3.15133	0.69561	-0.00118	7.77448	0.41735	-0.02255	0.79027
0.01556	4.10621	1.53245	-0.06923	-3.16553	0.69576	-0.00116	7.87703	0.41664	-0.02276	0.79161
0.01592	4.19666	1.53446	-0.06825	-3.18122	0.69588	-0.00115	7.99191	0.41585	-0.02300	0.79320
0.01630	4.29652	1.53667	-0.06717	-3.19848	0.69595	-0.00114	8.11971	0.41500	-0.02326	0.79507
0.01668	4.40228	1.53911	-0.06596	-3.21665	0.69586	-0.00112	8.25495	0.41417	-0.02356	0.79721
0.01707	4.51065	1.54177	-0.06464	-3.23513	0.69547	-0.00111	8.39256	0.41344	-0.02389	0.79961
0.01748	4.62154	1.54465	-0.06320	-3.25392	0.69476	-0.00110	8.53182	0.41281	-0.02426	0.80233
0.01789	4.73559	1.54780	-0.06165	-3.27316	0.69364	-0.00108	8.67283	0.41231	-0.02467	0.80535
0.01831	4.84656	1.55118	-0.05996	-3.29167	0.69185	-0.00107	8.80598	0.41204	-0.02508	0.80850
0.01874	4.94706	1.55472	-0.05815	-3.30807	0.68936	-0.00106	8.92061	0.41212	-0.02549	0.81160
0.01918	5.02952	1.55821	-0.05620	-3.32088	0.68632	-0.00106	9.00665	0.41263	-0.02588	0.81466
0.01963	5.08896	1.56137	-0.05414	-3.32898	0.68271	-0.00106	9.05871	0.41356	-0.02629	0.81784
0.02009	5.13729	1.56437	-0.05206	-3.33473	0.67876	-0.00107	9.09477	0.41471	-0.02672	0.82111
0.02057	5.18063	1.56747	-0.04999	-3.33950	0.67421	-0.00108	9.12159	0.41603	-0.02710	0.82411
0.02105	5.20646	1.57053	-0.04791	-3.34093	0.66831	-0.00109	9.11909	0.41775	-0.02749	0.82713
0.02154	5.21106	1.57352	-0.04586	-3.33842	0.66113	-0.00110	9.08197	0.41994	-0.02795	0.83069
0.02205	5.19869	1.57671	-0.04381	-3.33306	0.65366	-0.00112	9.01782	0.42250	-0.02850	0.83478
0.02257	5.16644	1.58025	-0.04169	-3.32444	0.64600	-0.00114	8.92238	0.42551	-0.02908	0.83918
0.02310	5.09386	1.58398	-0.03938	-3.30868	0.63682	-0.00117	8.76349	0.42944	-0.02962	0.84341
0.02364	4.98415	1.58785	-0.03696	-3.28652	0.62605	-0.00120	8.54538	0.43425	-0.02999	0.84649
0.02420	4.88053	1.59224	-0.03466	-3.26625	0.61633	-0.00124	8.33687	0.43899	-0.03010	0.84781
0.02477	4.79783	1.59688	-0.03251	-3.25003	0.60837	-0.00127	8.16597	0.44322	-0.03002	0.84784
0.02535	4.71996	1.60130	-0.03043	-3.23441	0.60043	-0.00130	8.00842	0.44729	-0.02991	0.84766
0.02595	4.63367	1.60509	-0.02840	-3.21694	0.59241	-0.00133	7.84359	0.45140	-0.02990	0.84811
0.02656	4.52178	1.60809	-0.02639	-3.19476	0.58494	-0.00137	7.64482	0.45590	-0.02991	0.84877
0.02719	4.36894	1.61068	-0.02430	-3.16547	0.57792	-0.00141	7.38960	0.46123	-0.02980	0.84857
0.02783	4.17505	1.61302	-0.02207	-3.12904	0.56957	-0.00146	7.07998	0.46756	-0.02960	0.84780
0.02848	3.97497	1.61461	-0.01993	-3.09125	0.55857	-0.00150	6.76611	0.47415	-0.02946	0.84747
0.02915	3.80209	1.61529	-0.01810	-3.05773	0.54661	-0.00153	6.49487	0.48013	-0.02955	0.84855
0.02984	3.62669	1.61588	-0.01634	-3.02343	0.53520	-0.00156	6.22722	0.48627	-0.02978	0.85046
0.03054	3.42771	1.61687	-0.01445	-2.98488	0.52424	-0.00160	5.93763	0.49317	-0.03000	0.85243
0.03126	3.24460	1.61825	-0.01262	-2.94948	0.51427	-0.00165	5.67512	0.49982	-0.03020	0.85451
0.03199	3.09697	1.62041	-0.01086	-2.92128	0.50608	-0.00168	5.45943	0.50573	-0.03038	0.85661
0.03275	2.95127	1.62339	-0.00900	-2.89422	0.49827	-0.00172	5.24797	0.51182	-0.03051	0.85841
0.03352	2.77166	1.62628	-0.00702	-2.86110	0.48809	-0.00175	5.00108	0.51901	-0.03046	0.85905
0.03430	2.54936	1.62818	-0.00504	-2.81985	0.47453	-0.00180	4.71261	0.52748	-0.03017	0.85813
0.03511	2.30833	1.62870	-0.00312	-2.77449	0.45871	-0.00183	4.41341	0.53653	-0.02978	0.85655
0.03594	2.06078	1.62793	-0.00128	-2.72712	0.44186	-0.00186	4.11912	0.54586	-0.02948	0.85564
0.03678	1.81639	1.62650	0.00040	-2.67997	0.42585	-0.00189	3.84026	0.55519	-0.02919	0.85485
0.03765	1.62178	1.62534	0.00154	-2.64218	0.41285	-0.00191	3.62208	0.56303	-0.02870	0.85268
0.03854	1.50030	1.62467	0.00201	-2.61806	0.40289	-0.00192	3.48100	0.56851	-0.02798	0.84902
0.03944	1.42248	1.62420	0.00223	-2.60182	0.39473	-0.00192	3.38433	0.57258	-0.02720	0.84478
0.04037	1.35553	1.62455	0.00252	-2.58772	0.38789	-0.00192	3.30214	0.57633	-0.02642	0.84038
0.04132	1.26767	1.62619	0.00309	-2.57039	0.38224	-0.00194	3.20694	0.58084	-0.02567	0.83606
0.04229	1.13606	1.62825	0.00409	-2.54530	0.37701	-0.00198	3.07844	0.58684	-0.02502	0.83247
0.04329	0.96085	1.63005	0.00559	-2.51233	0.37182	-0.00203	2.91633	0.59441	-0.02458	0.83041
0.04431	0.78520	1.63160	0.00719	-2.47961	0.36832	-0.00208	2.75791	0.60205	-0.02439	0.83007
0.04535	0.65503	1.63286	0.00829	-2.45539	0.36729	-0.00213	2.63869	0.60804	-0.02439	0.83094

0.04642	0.56664	1.63378	0.00886	-2.43870	0.36609	-0.00215	2.55064	0.61272	-0.02457	0.83307
0.04751	0.48244	1.63420	0.00940	-2.42235	0.36321	-0.00217	2.46271	0.61758	-0.02493	0.83627
0.04863	0.38565	1.63396	0.00999	-2.40302	0.35891	-0.00218	2.36527	0.62312	-0.02539	0.83986
0.04977	0.28693	1.63304	0.01023	-2.38273	0.35420	-0.00219	2.27019	0.62864	-0.02589	0.84350
0.05094	0.20004	1.63119	0.00986	-2.36396	0.34996	-0.00220	2.18889	0.63337	-0.02641	0.84711
0.05214	0.12990	1.62873	0.00895	-2.34799	0.34506	-0.00220	2.12230	0.63725	-0.02680	0.84990
0.05337	0.08494	1.62642	0.00767	-2.33729	0.34022	-0.00219	2.07505	0.63996	-0.02695	0.85104
0.05462	0.05746	1.62522	0.00635	-2.33140	0.33757	-0.00218	2.04112	0.64180	-0.02680	0.85032
0.05591	0.00975	1.62410	0.00533	-2.32221	0.33635	-0.00218	1.99341	0.64437	-0.02651	0.84898
0.05722	-0.08430	1.62162	0.00477	-2.30302	0.33396	-0.00220	1.91575	0.64885	-0.02610	0.84710
0.05857	-0.21529	1.61769	0.00460	-2.27529	0.32972	-0.00223	1.81753	0.65491	-0.02546	0.84402
0.05995	-0.33025	1.61253	0.00415	-2.24950	0.32608	-0.00225	1.73396	0.66004	-0.02458	0.83946
0.06136	-0.39986	1.60630	0.00284	-2.23182	0.32387	-0.00226	1.68038	0.66278	-0.02361	0.83421
0.06280	-0.44290	1.60003	0.00083	-2.21935	0.32246	-0.00226	1.64492	0.66405	-0.02284	0.83029
0.06428	-0.48185	1.59483	-0.00126	-2.20813	0.32207	-0.00227	1.61555	0.66500	-0.02241	0.82876
0.06579	-0.52046	1.59132	-0.00310	-2.19796	0.32406	-0.00228	1.58974	0.66591	-0.02227	0.82918
0.06734	-0.55118	1.58926	-0.00475	-2.19033	0.33064	-0.00231	1.57163	0.66632	-0.02207	0.82906
0.06893	-0.59530	1.58706	-0.00612	-2.18015	0.33789	-0.00235	1.54495	0.66744	-0.02155	0.82668
0.07055	-0.65851	1.58358	-0.00736	-2.16553	0.33985	-0.00237	1.50242	0.66995	-0.02084	0.82263
0.07221	-0.70883	1.57905	-0.00910	-2.15238	0.33644	-0.00237	1.46437	0.67224	-0.01991	0.81685
0.07391	-0.73349	1.57408	-0.01159	-2.14339	0.32999	-0.00235	1.44034	0.67342	-0.01896	0.81084
0.07565	-0.74893	1.56911	-0.01457	-2.13621	0.32213	-0.00232	1.41954	0.67438	-0.01846	0.80792
0.07743	-0.76457	1.56424	-0.01762	-2.12911	0.31456	-0.00229	1.39689	0.67560	-0.01842	0.80805
0.07925	-0.79645	1.55949	-0.02033	-2.11853	0.30719	-0.00226	1.36685	0.67767	-0.01843	0.80832
0.08111	-0.85547	1.55438	-0.02277	-2.10199	0.29779	-0.00225	1.32497	0.68101	-0.01833	0.80762
0.08302	-0.93198	1.54850	-0.02524	-2.08149	0.28556	-0.00224	1.27572	0.68508	-0.01817	0.80701
0.08498	-1.02564	1.54269	-0.02743	-2.05829	0.27339	-0.00223	1.21909	0.68997	-0.01807	0.80677
0.08697	-1.12062	1.53729	-0.02923	-2.03561	0.26496	-0.00223	1.16576	0.69460	-0.01811	0.80709
0.08902	-1.18519	1.53146	-0.03122	-2.01847	0.26138	-0.00224	1.13335	0.69674	-0.01826	0.80847
0.09112	-1.21937	1.52460	-0.03374	-2.00638	0.25941	-0.00224	1.11846	0.69660	-0.01846	0.81098
0.09326	-1.24235	1.51763	-0.03654	-1.99639	0.25732	-0.00224	1.10965	0.69568	-0.01855	0.81355
0.09545	-1.26744	1.51192	-0.03918	-1.98691	0.25773	-0.00225	1.10232	0.69470	-0.01832	0.81457
0.09770	-1.29630	1.50742	-0.04148	-1.97766	0.26304	-0.00228	1.09624	0.69364	-0.01768	0.81323
0.10000	-1.32303	1.50363	-0.04355	-1.96968	0.27136	-0.00232	1.09205	0.69234	-0.01680	0.81013
0.10235	-1.34524	1.50021	-0.04582	-1.96309	0.27975	-0.00235	1.08927	0.69087	-0.01603	0.80746
0.10476	-1.35582	1.49679	-0.04860	-1.95848	0.28714	-0.00237	1.09126	0.68892	-0.01586	0.80826
0.10723	-1.37014	1.49284	-0.05157	-1.95231	0.29215	-0.00239	1.08913	0.68755	-0.01608	0.81120
0.10975	-1.42395	1.48817	-0.05383	-1.93781	0.29486	-0.00242	1.06413	0.68889	-0.01609	0.81227
0.11233	-1.53085	1.48341	-0.05499	-1.91348	0.29600	-0.00247	1.00932	0.69399	-0.01561	0.81012
0.11498	-1.65828	1.47838	-0.05594	-1.88588	0.29388	-0.00251	0.94059	0.70123	-0.01482	0.80616
0.11768	-1.73478	1.47260	-0.05822	-1.86807	0.29168	-0.00251	0.89558	0.70541	-0.01410	0.80299
0.12045	-1.74148	1.46604	-0.06207	-1.86295	0.29238	-0.00249	0.88591	0.70442	-0.01377	0.80252
0.12328	-1.73855	1.45964	-0.06605	-1.85943	0.29137	-0.00247	0.88337	0.70254	-0.01369	0.80362
0.12619	-1.78261	1.45459	-0.06882	-1.84805	0.28619	-0.00245	0.86091	0.70395	-0.01347	0.80363
0.12916	-1.85328	1.45061	-0.07084	-1.83261	0.28069	-0.00244	0.82931	0.70694	-0.01302	0.80199
0.13219	-1.90109	1.44694	-0.07331	-1.82154	0.27963	-0.00244	0.81300	0.70757	-0.01256	0.80027
0.13531	-1.91118	1.44387	-0.07668	-1.81778	0.28479	-0.00244	0.81892	0.70466	-0.01207	0.79843
0.13849	-1.88235	1.44105	-0.08087	-1.82138	0.29488	-0.00245	0.84695	0.69830	-0.01138	0.79522
0.14175	-1.82163	1.43730	-0.08551	-1.83021	0.30699	-0.00246	0.89243	0.68939	-0.01059	0.79095
0.14508	-1.75201	1.43324	-0.09002	-1.84067	0.31944	-0.00245	0.94326	0.68006	-0.00992	0.78671
0.14850	-1.68666	1.43009	-0.09402	-1.85129	0.33242	-0.00245	0.99313	0.67144	-0.00950	0.78359
0.15199	-1.65067	1.42729	-0.09746	-1.85642	0.34264	-0.00245	1.02787	0.66520	-0.00933	0.78176
0.15557	-1.67310	1.42365	-0.10050	-1.84932	0.34488	-0.00246	1.02914	0.66322	-0.00922	0.78011
0.15923	-1.74250	1.41909	-0.10350	-1.83236	0.33821	-0.00246	1.00282	0.66459	-0.00918	0.77904
0.16298	-1.81631	1.41507	-0.10661	-1.81532	0.32827	-0.00245	0.97496	0.66626	-0.00939	0.78002
0.16681	-1.88513	1.41267	-0.10964	-1.80090	0.32154	-0.00245	0.95207	0.66747	-0.00964	0.78177
0.17074	-1.96135	1.41232	-0.11218	-1.78726	0.32188	-0.00248	0.92525	0.66945	-0.00931	0.78015
0.17475	-2.04576	1.41391	-0.11404	-1.77448	0.32926	-0.00253	0.89161	0.67263	-0.00821	0.77363
0.17887	-2.10925	1.41637	-0.11578	-1.76721	0.34204	-0.00257	0.86695	0.67465	-0.00682	0.76523
0.18307	-2.12026	1.41805	-0.11839	-1.76959	0.35922	-0.00260	0.87035	0.67235	-0.00566	0.75849
0.18738	-2.08565	1.41768	-0.12222	-1.77841	0.37856	-0.00262	0.90139	0.66573	-0.00506	0.75563
0.19179	-2.05080	1.41487	-0.12664	-1.78396	0.39534	-0.00264	0.93755	0.65832	-0.00502	0.75659
0.19631	-2.06792	1.41041	-0.13062	-1.77704	0.40357	-0.00267	0.94805	0.65449	-0.00531	0.75978
0.20092	-2.13481	1.40660	-0.13366	-1.76087	0.40297	-0.00269	0.93165	0.65465	-0.00563	0.76354
0.20565	-2.21501	1.40539	-0.13590	-1.74502	0.39922	-0.00271	0.90806	0.65639	-0.00576	0.76655
0.21049	-2.28582	1.40692	-0.13781	-1.73445	0.39645	-0.00271	0.88853	0.65798	-0.00577	0.76929
0.21544	-2.33440	1.41066	-0.13991	-1.73137	0.39602	-0.00270	0.87851	0.65839	-0.00570	0.77172
0.22051	-2.35671	1.41575	-0.14265	-1.73555	0.39841	-0.00268	0.88027	0.65708	-0.00529	0.77212
0.22570	-2.36766	1.42032	-0.14602	-1.74171	0.40264	-0.00266	0.88690	0.65484	-0.00456	0.77051
0.23101	-2.39427	1.42212	-0.14973	-1.74162	0.40481	-0.00264	0.88446	0.65350	-0.00385	0.76896
0.23645	-2.44501	1.42024	-0.15355	-1.73222	0.40226	-0.00262	0.86940	0.65361	-0.00346	0.76947
0.24201	-2.50672	1.41562	-0.15731	-1.71671	0.39676	-0.00261	0.85122	0.65400	-0.00348	0.77261
0.24771	-2.57296	1.41018	-0.16091	-1.69850	0.39265	-0.00263	0.83596	0.65390	-0.00364	0.77644
0.25354	-2.64361	1.40601	-0.16426	-1.68046	0.39334	-0.00268	0.82343	0.65338	-0.00348	0.77778
0.25950	-2.70908	1.40426	-0.16747	-1.66637	0.39874	-0.00274	0.81579	0.65227	-0.00288	0.77584
0.26561	-2.76016	1.40462	-0.17069	-1.65794	0.40290	-0.00277	0.81419	0.65057	-0.00207	0.77247
0.27186	-2.79344	1.40620	-0.17408	-1.65502	0.40067	-0.00277	0.81945	0.64815	-0.00133	0.76981
0.27826	-2.80916	1.40784	-0.17787	-1.65638	0.39326	-0.00272	0.83323	0.64446	-0.00087	0.76925
0.28480	-2.79887	1.40879	-0.18233	-1.66285	0.38823	-0.00266	0.86339	0.63799	-0.00079	0.77120
0.29150	-2.75921	1.40875	-0.18754	-1.67476	0.39235	-0.00262	0.91430	0.62813	-0.00107	0.77509
0.29836	-2.71301	1.40711	-0.19319	-1.68674	0.40389	-0.00260	0.97246	0.61703	-0.00157	0.77983

0.30539	-2.70166	1.40384	-0.19865	-1.69032	0.41707	-0.00261	1.00968	0.60843	-0.00206	0.78372
0.31257	-2.74647	1.39982	-0.20349	-1.68181	0.42780	-0.00265	1.00919	0.60445	-0.00250	0.78683
0.31993	-2.84412	1.39633	-0.20754	-1.66276	0.43420	-0.00269	0.97210	0.60539	-0.00309	0.79092
0.32745	-2.98198	1.39424	-0.21084	-1.63642	0.43513	-0.00275	0.90851	0.61068	-0.00383	0.79622
0.33517	-3.14540	1.39306	-0.21365	-1.60544	0.43040	-0.00281	0.83032	0.61918	-0.00450	0.80149
0.34304	-3.31068	1.39166	-0.21646	-1.57367	0.42233	-0.00285	0.75363	0.62860	-0.00497	0.80570
0.35112	-3.44852	1.38962	-0.21987	-1.54674	0.41468	-0.00288	0.69547	0.63575	-0.00514	0.80833
0.35938	-3.53592	1.38758	-0.22431	-1.52999	0.40928	-0.00289	0.66687	0.63808	-0.00506	0.80971
0.36784	-3.56802	1.38666	-0.22979	-1.52583	0.40666	-0.00286	0.67057	0.63460	-0.00482	0.81015
0.37649	-3.56011	1.38762	-0.23576	-1.53231	0.40661	-0.00282	0.70041	0.62655	-0.00442	0.80907
0.38536	-3.54525	1.39011	-0.24153	-1.54265	0.40826	-0.00277	0.73959	0.61713	-0.00372	0.80560
0.39442	-3.54538	1.39351	-0.24674	-1.55163	0.41256	-0.00273	0.77524	0.60841	-0.00268	0.79985
0.40370	-3.56273	1.39752	-0.25152	-1.55818	0.42131	-0.00272	0.80471	0.60068	-0.00147	0.79332
0.41321	-3.59591	1.40167	-0.25622	-1.56169	0.43391	-0.00273	0.82647	0.59413	-0.00034	0.78757
0.42292	-3.64491	1.40547	-0.26111	-1.56135	0.44820	-0.00276	0.83829	0.58900	0.00057	0.78333
0.43288	-3.70199	1.40894	-0.26634	-1.55872	0.46300	-0.00281	0.84463	0.58467	0.00118	0.78096
0.44307	-3.75544	1.41237	-0.27183	-1.55662	0.47836	-0.00286	0.85327	0.58013	0.00136	0.78130
0.45349	-3.79477	1.41644	-0.27731	-1.55803	0.49496	-0.00290	0.87156	0.57461	0.00104	0.78509
0.46417	-3.81528	1.42197	-0.28253	-1.56486	0.51295	-0.00294	0.90351	0.56787	0.00026	0.79261
0.47508	-3.81626	1.42933	-0.28746	-1.57780	0.53179	-0.00295	0.95096	0.55991	-0.00087	0.80332
0.48626	-3.80508	1.43798	-0.29232	-1.59486	0.54924	-0.00294	1.01020	0.55122	-0.00203	0.81514
0.49771	-3.79616	1.44683	-0.29737	-1.61212	0.56380	-0.00292	1.07227	0.54260	-0.00285	0.82509
0.50942	-3.80681	1.45478	-0.30257	-1.62477	0.57545	-0.00290	1.12566	0.53485	-0.00327	0.83220
0.52140	-3.84389	1.46111	-0.30777	-1.63031	0.58443	-0.00290	1.16586	0.52812	-0.00355	0.83784
0.53367	-3.90859	1.46558	-0.31292	-1.62788	0.58972	-0.00291	1.19065	0.52255	-0.00392	0.84381
0.54624	-4.00057	1.46855	-0.31790	-1.61793	0.59104	-0.00293	1.19760	0.51841	-0.00443	0.85103
0.55910	-4.11607	1.47075	-0.32259	-1.60236	0.58852	-0.00295	1.18707	0.51576	-0.00496	0.85858
0.57225	-4.25175	1.47288	-0.32688	-1.58296	0.58206	-0.00297	1.15989	0.51459	-0.00536	0.86535
0.58569	-4.40203	1.47538	-0.33075	-1.56145	0.57188	-0.00298	1.11973	0.51472	-0.00565	0.87137
0.59948	-4.55949	1.47847	-0.33429	-1.53967	0.55912	-0.00298	1.07318	0.51565	-0.00589	0.87693
0.61357	-4.71276	1.48221	-0.33763	-1.52004	0.54578	-0.00297	1.03006	0.51638	-0.00602	0.88167
0.62802	-4.85463	1.48652	-0.34108	-1.50401	0.53378	-0.00296	0.99786	0.51590	-0.00592	0.88470
0.64280	-4.98282	1.49120	-0.34490	-1.49171	0.52490	-0.00294	0.97952	0.51362	-0.00550	0.88546
0.65794	-5.09986	1.49608	-0.34917	-1.48230	0.51989	-0.00292	0.97382	0.50957	-0.00487	0.88487
0.67340	-5.20994	1.50108	-0.35372	-1.47474	0.51864	-0.00291	0.97716	0.50422	-0.00423	0.88435
0.68927	-5.31771	1.50621	-0.35839	-1.46822	0.52071	-0.00291	0.98609	0.49801	-0.00360	0.88435
0.70547	-5.42437	1.51149	-0.36308	-1.46245	0.52547	-0.00292	0.99927	0.49118	-0.00292	0.88419
0.72207	-5.52806	1.51711	-0.36780	-1.45810	0.53298	-0.00294	1.01984	0.48339	-0.00206	0.88256
0.73910	-5.62582	1.52329	-0.37264	-1.45591	0.54358	-0.00297	1.05159	0.47437	-0.00086	0.87812
0.75649	-5.71587	1.52996	-0.37768	-1.45598	0.55697	-0.00300	1.09669	0.46411	0.00072	0.87035
0.77429	-5.80057	1.53686	-0.38294	-1.45739	0.57221	-0.00303	1.15323	0.45298	0.00255	0.85977
0.79246	-5.88528	1.54358	-0.38827	-1.45842	0.58742	-0.00307	1.21464	0.44176	0.00440	0.84757
0.81116	-5.97591	1.55011	-0.39352	-1.45781	0.60112	-0.00310	1.27502	0.43104	0.00617	0.83458
0.83022	-6.07314	1.55668	-0.39844	-1.45546	0.61274	-0.00314	1.33018	0.42130	0.00784	0.82146
0.84976	-6.17669	1.56381	-0.40299	-1.45197	0.62288	-0.00316	1.37907	0.41269	0.00942	0.80861
0.86972	-6.28271	1.57173	-0.40720	-1.44826	0.63238	-0.00319	1.42248	0.40522	0.01086	0.79687
0.89023	-6.39004	1.58045	-0.41114	-1.44464	0.64175	-0.00321	1.46074	0.39879	0.01211	0.78697
0.91116	-6.49680	1.58967	-0.41483	-1.44108	0.65068	-0.00323	1.49276	0.39345	0.01311	0.77972
0.93257	-6.60352	1.59924	-0.41831	-1.43726	0.65856	-0.00324	1.51657	0.38933	0.01382	0.77554
0.95456	-6.71101	1.60916	-0.42160	-1.43294	0.66529	-0.00325	1.53024	0.38655	0.01421	0.77475
0.97704	-6.81737	1.61941	-0.42471	-1.42843	0.67135	-0.00326	1.53492	0.38504	0.01422	0.77756
1.00000	-6.92024	1.63012	-0.42766	-1.42435	0.67751	-0.00327	1.53404	0.38452	0.01388	0.78375
1.02354	-7.01889	1.64139	-0.43047	-1.42103	0.68414	-0.00328	1.52999	0.38480	0.01326	0.79268
1.04767	-7.11303	1.65321	-0.43321	-1.41857	0.69124	-0.00329	1.52417	0.38568	0.01246	0.80344
1.07227	-7.20298	1.66536	-0.43590	-1.41672	0.69850	-0.00329	1.51642	0.38705	0.01155	0.81514
1.09745	-7.28963	1.67769	-0.43859	-1.41525	0.70560	-0.00330	1.50658	0.38882	0.01059	0.82733
1.12334	-7.37286	1.69009	-0.44135	-1.41416	0.71240	-0.00330	1.49561	0.39084	0.00958	0.83983
1.14982	-7.45277	1.70237	-0.44416	-1.41328	0.71860	-0.00330	1.48359	0.39304	0.00854	0.85241
1.17675	-7.53080	1.71442	-0.44698	-1.41224	0.72370	-0.00330	1.46945	0.39540	0.00749	0.86473
1.20453	-7.60891	1.72644	-0.44983	-1.41096	0.72762	-0.00330	1.45321	0.39788	0.00645	0.87656
1.23289	-7.68696	1.73835	-0.45266	-1.40943	0.73010	-0.00329	1.43559	0.40038	0.00546	0.88734
1.26183	-7.76547	1.75021	-0.45539	-1.40771	0.73111	-0.00328	1.41736	0.40277	0.00456	0.89671
1.29149	-7.84402	1.76211	-0.45800	-1.40615	0.73119	-0.00326	1.40036	0.40491	0.00379	0.90451
1.32188	-7.92195	1.77401	-0.46051	-1.40490	0.73069	-0.00324	1.38580	0.40666	0.00318	0.91063
1.35300	-7.99993	1.78585	-0.46293	-1.40383	0.72970	-0.00322	1.37330	0.40803	0.00275	0.91513
1.38485	-8.07824	1.79752	-0.46529	-1.40284	0.72853	-0.00319	1.36263	0.40898	0.00250	0.91825
1.41743	-8.15762	1.80891	-0.46764	-1.40171	0.72736	-0.00317	1.35325	0.40952	0.00243	0.92028
1.45075	-8.23838	1.81995	-0.47001	-1.40035	0.72642	-0.00315	1.34540	0.40959	0.00252	0.92144
1.48500	-8.32224	1.83067	-0.47244	-1.39846	0.72562	-0.00313	1.33867	0.40917	0.00277	0.92192
1.51999	-8.40997	1.84094	-0.47488	-1.39580	0.72497	-0.00311	1.33304	0.40822	0.00316	0.92192
1.55569	-8.50268	1.85075	-0.47730	-1.39212	0.72444	-0.00310	1.32856	0.40666	0.00367	0.92174
1.59236	-8.60090	1.86016	-0.47968	-1.38749	0.72403	-0.00309	1.32686	0.40431	0.00426	0.92175
1.62973	-8.70387	1.86914	-0.48201	-1.38205	0.72358	-0.00309	1.32956	0.40101	0.00492	0.92213
1.66806	-8.81040	1.87783	-0.48428	-1.37632	0.72335	-0.00310	1.34030	0.39643	0.00566	0.92287
1.70736	-8.91825	1.88634	-0.48640	-1.37104	0.72386	-0.00310	1.36338	0.39026	0.00648	0.92397
1.74764	-9.02533	1.89475	-0.48830	-1.36687	0.72553	-0.00311	1.40292	0.38228	0.00738	0.92542
1.78859	-9.13155	1.90309	-0.48985	-1.36384	0.72790	-0.00312	1.45935	0.37266	0.00834	0.92723
1.83083	-9.23985	1.91165	-0.49098	-1.36180	0.73090	-0.00312	1.53328	0.36154	0.00937	0.92925
1.87371	-9.35078	1.92040	-0.49159	-1.36047	0.73451	-0.00313	1.62134	0.34949	0.01051	0.93105
1.91791	-9.46864	1.92955	-0.49159	-1.35935	0.73876	-0.00314	1.72073	0.33680	0.01177	0.93248
1.96309	-9.59363	1.93902	-0.49100	-1.35813	0.74365	-0.00315	1.82698	0.32398	0.01308	0.93362

2.00924	-9.72658	1.94875	-0.48983	-1.35641	0.74916	-0.00317	1.93543	0.31138	0.01436	0.93470
2.05634	-9.86716	1.95867	-0.48816	-1.35406	0.75523	-0.00319	2.04255	0.29924	0.01559	0.93579
2.10482	-10.01411	1.96883	-0.48601	-1.35144	0.76231	-0.00321	2.14962	0.28749	0.01675	0.93682
2.15424	-10.16307	1.97908	-0.48347	-1.34901	0.77075	-0.00324	2.25776	0.27619	0.01782	0.93758
2.20507	-10.31402	1.98946	-0.48056	-1.34686	0.78049	-0.00327	2.36798	0.26530	0.01881	0.93794
2.25683	-10.46519	1.99986	-0.47736	-1.34493	0.79102	-0.00330	2.47794	0.25502	0.01971	0.93790
2.31000	-10.61860	2.01036	-0.47386	-1.34293	0.80176	-0.00333	2.58552	0.24542	0.02053	0.93750
2.36463	-10.77488	2.02093	-0.47012	-1.34055	0.81191	-0.00336	2.68735	0.23659	0.02126	0.93688
2.42014	-10.93221	2.03148	-0.46621	-1.33781	0.82110	-0.00338	2.78110	0.22863	0.02190	0.93603
2.47709	-11.09239	2.04212	-0.46210	-1.33459	0.82925	-0.00340	2.86535	0.22151	0.02246	0.93491
2.53550	-11.25455	2.05292	-0.45783	-1.33105	0.83663	-0.00342	2.93972	0.21524	0.02295	0.93373
2.59471	-11.41521	2.06379	-0.45345	-1.32757	0.84367	-0.00344	3.00537	0.20983	0.02332	0.93292
2.65604	-11.57652	2.07494	-0.44889	-1.32426	0.85062	-0.00345	3.06468	0.20515	0.02353	0.93296
2.71887	-11.73523	2.08625	-0.44428	-1.32138	0.85756	-0.00347	3.11946	0.20115	0.02357	0.93414
2.78242	-11.88876	2.09756	-0.43969	-1.31908	0.86462	-0.00348	3.17103	0.19774	0.02346	0.93650
2.84819	-12.04030	2.10908	-0.43504	-1.31731	0.87204	-0.00349	3.22127	0.19479	0.02323	0.94014
2.91545	-12.18876	2.12078	-0.43041	-1.31600	0.87948	-0.00351	3.26728	0.19241	0.02287	0.94519
2.98329	-12.33242	2.13236	-0.42585	-1.31506	0.88664	-0.00352	3.30761	0.19061	0.02241	0.95144
3.05344	-12.47541	2.14423	-0.42128	-1.31438	0.89359	-0.00353	3.34225	0.18930	0.02185	0.95884
3.12598	-12.61798	2.15623	-0.41666	-1.31387	0.90026	-0.00353	3.37051	0.18848	0.02120	0.96714
3.19898	-12.75675	2.16811	-0.41217	-1.31346	0.90640	-0.00354	3.39103	0.18812	0.02051	0.97571
3.27439	-12.89585	2.18009	-0.40763	-1.31308	0.91218	-0.00354	3.40502	0.18815	0.01977	0.98436
3.35121	-13.03317	2.19202	-0.40315	-1.31269	0.91755	-0.00355	3.41278	0.18848	0.01902	0.99271
3.43053	-13.17102	2.20400	-0.39859	-1.31228	0.92261	-0.00355	3.41531	0.18908	0.01825	1.00100
3.51124	-13.30706	2.21591	-0.39412	-1.31186	0.92733	-0.00355	3.41341	0.18987	0.01748	1.00929
3.59324	-13.44139	2.22756	-0.38962	-1.31139	0.93169	-0.00355	3.40765	0.19083	0.01672	1.01783
3.67782	-13.57640	2.23949	-0.38515	-1.31093	0.93584	-0.00355	3.39870	0.19191	0.01597	1.02702
3.76506	-13.71070	2.25107	-0.38055	-1.31047	0.93979	-0.00355	3.38795	0.19309	0.01522	1.03719
3.85356	-13.84455	2.26310	-0.37606	-1.31010	0.94358	-0.00355	3.37523	0.19434	0.01448	1.04811
3.94477	-13.97628	2.27443	-0.37145	-1.30975	0.94720	-0.00355	3.36205	0.19561	0.01378	1.05966
4.03714	-14.10849	2.28640	-0.36690	-1.30950	0.95070	-0.00354	3.34683	0.19698	0.01308	1.07145
4.13223	-14.23867	2.29789	-0.36234	-1.30930	0.95408	-0.00354	3.33194	0.19832	0.01243	1.08328
4.23012	-14.36954	2.30944	-0.35761	-1.30916	0.95737	-0.00354	3.31603	0.19973	0.01179	1.09489
4.32900	-14.50013	2.32159	-0.35306	-1.30913	0.96061	-0.00353	3.30005	0.20112	0.01119	1.10566
4.43066	-14.62646	2.33243	-0.34833	-1.30910	0.96365	-0.00352	3.28561	0.20242	0.01064	1.11572
4.53515	-14.75766	2.34463	-0.34355	-1.30918	0.96673	-0.00352	3.26957	0.20381	0.01009	1.12516
4.64253	-14.88717	2.35657	-0.33884	-1.30932	0.96975	-0.00351	3.25506	0.20509	0.00959	1.13389
4.75059	-15.01080	2.36714	-0.33397	-1.30945	0.97253	-0.00351	3.24186	0.20630	0.00912	1.14185
4.86145	-15.14154	2.37978	-0.32914	-1.30971	0.97541	-0.00350	3.22700	0.20759	0.00866	1.14928
4.97760	-15.26995	2.39152	-0.32428	-1.30998	0.97824	-0.00349	3.21435	0.20875	0.00823	1.15628
5.09424	-15.39263	2.40192	-0.31923	-1.31025	0.98081	-0.00348	3.20255	0.20985	0.00782	1.16273
5.21376	-15.52459	2.41496	-0.31425	-1.31065	0.98355	-0.00347	3.18888	0.21105	0.00741	1.16882
5.33618	-15.65046	2.42669	-0.30942	-1.31105	0.98616	-0.00347	3.17785	0.21208	0.00704	1.17454
5.46150	-15.76948	2.43633	-0.30429	-1.31140	0.98848	-0.00346	3.16795	0.21304	0.00668	1.18013
5.58971	-15.89983	2.44901	-0.29912	-1.31187	0.99098	-0.00345	3.15565	0.21413	0.00631	1.18565
5.72082	-16.02974	2.46203	-0.29425	-1.31240	0.99351	-0.00344	3.14482	0.21512	0.00597	1.19112
5.85823	-16.14655	2.47097	-0.28908	-1.31280	0.99563	-0.00343	3.13658	0.21594	0.00564	1.19691
5.99520	-16.26902	2.48172	-0.28379	-1.31327	0.99775	-0.00342	3.12623	0.21688	0.00530	1.20273
6.13497	-16.40301	2.49585	-0.27870	-1.31389	1.00015	-0.00341	3.11502	0.21787	0.00498	1.20859
6.28141	-16.52401	2.50650	-0.27380	-1.31442	1.00228	-0.00340	3.10724	0.21863	0.00469	1.21470
6.42674	-16.63092	2.51376	-0.26870	-1.31482	1.00393	-0.00339	3.09990	0.21934	0.00438	1.22089
6.57895	-16.75605	2.52513	-0.26329	-1.31538	1.00588	-0.00338	3.08993	0.22022	0.00407	1.22736
6.73401	-16.89249	2.53992	-0.25815	-1.31612	1.00815	-0.00337	3.08010	0.22111	0.00379	1.23381
6.89180	-17.00329	2.54868	-0.25349	-1.31666	1.00990	-0.00336	3.07438	0.22170	0.00353	1.24034
7.05716	-17.10453	2.55410	-0.24835	-1.31704	1.01121	-0.00335	3.06804	0.22230	0.00324	1.24724
7.22022	-17.21912	2.56354	-0.24314	-1.31758	1.01277	-0.00334	3.05975	0.22303	0.00297	1.25381
7.39098	-17.35447	2.57801	-0.23784	-1.31838	1.01479	-0.00332	3.05074	0.22385	0.00270	1.26024
7.56430	-17.47023	2.58841	-0.23334	-1.31905	1.01653	-0.00331	3.04556	0.22439	0.00248	1.26626
7.73994	-17.54967	2.58969	-0.22901	-1.31929	1.01733	-0.00331	3.04188	0.22475	0.00223	1.27210
7.92393	-17.64626	2.59450	-0.22407	-1.31966	1.01834	-0.00330	3.03549	0.22529	0.00197	1.27769
8.11030	-17.75843	2.60335	-0.21895	-1.32023	1.01964	-0.00329	3.02797	0.22593	0.00172	1.28276
8.29876	-17.89030	2.61760	-0.21387	-1.32112	1.02144	-0.00327	3.02066	0.22663	0.00150	1.28723
8.49618	-17.98369	2.62277	-0.20996	-1.32161	1.02258	-0.00326	3.01790	0.22695	0.00130	1.29155
8.69565	-18.03504	2.61774	-0.20652	-1.32153	1.02268	-0.00326	3.01585	0.22707	0.00108	1.29594
8.90472	-18.11093	2.61798	-0.20234	-1.32168	1.02315	-0.00325	3.01103	0.22741	0.00084	1.30031
9.11577	-18.19477	2.62043	-0.19805	-1.32194	1.02374	-0.00324	3.00556	0.22781	0.00060	1.30457
9.32836	-18.31127	2.63078	-0.19298	-1.32263	1.02493	-0.00323	2.99804	0.22845	0.00037	1.30873
9.54198	-18.41139	2.63836	-0.18907	-1.32325	1.02604	-0.00322	2.99434	0.22883	0.00020	1.31284
9.76563	-18.43034	2.62723	-0.18765	-1.32286	1.02573	-0.00322	2.99658	0.22856	0.00003	1.31764
10.00000	-18.44505	2.61465	-0.18615	-1.32234	1.02521	-0.00322	2.99790	0.22829	-0.00015	1.32325

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Low stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 305 - 610 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-2.34679	2.24277	-0.28873	-2.41441	0.97627	-0.00155	5.86372	0.29954	0.01981	0.30986
PGV	9.22330	1.81956	-0.18316	-3.83226	1.31054	-0.00032	18.30729	0.23347	-0.00607	0.48294
PGA	5.44953	1.51718	-0.09570	-3.43342	0.81043	-0.00088	10.54366	0.37085	-0.03588	0.86232
0.01000	5.49080	1.52375	-0.09484	-3.43742	0.79462	-0.00087	10.58523	0.37336	-0.02269	0.80044
0.01024	5.50384	1.52403	-0.09467	-3.43958	0.79438	-0.00087	10.60136	0.37334	-0.02272	0.80087
0.01048	5.51880	1.52433	-0.09449	-3.44208	0.79419	-0.00087	10.62057	0.37330	-0.02275	0.80128
0.01072	5.53578	1.52464	-0.09429	-3.44494	0.79403	-0.00086	10.64296	0.37323	-0.02279	0.80166
0.01097	5.55498	1.52498	-0.09409	-3.44818	0.79391	-0.00086	10.66883	0.37313	-0.02283	0.80203
0.01123	5.57663	1.52535	-0.09386	-3.45185	0.79383	-0.00086	10.69854	0.37301	-0.02287	0.80238
0.01150	5.60100	1.52576	-0.09363	-3.45599	0.79379	-0.00085	10.73250	0.37286	-0.02293	0.80273
0.01177	5.62839	1.52619	-0.09337	-3.46065	0.79379	-0.00085	10.77117	0.37268	-0.02298	0.80308
0.01205	5.65922	1.52668	-0.09309	-3.46592	0.79383	-0.00085	10.81523	0.37246	-0.02305	0.80344
0.01233	5.69395	1.52721	-0.09278	-3.47186	0.79392	-0.00084	10.86537	0.37220	-0.02313	0.80382
0.01262	5.73313	1.52780	-0.09245	-3.47858	0.79404	-0.00083	10.92250	0.37190	-0.02321	0.80423
0.01292	5.77728	1.52846	-0.09208	-3.48616	0.79420	-0.00083	10.98748	0.37155	-0.02331	0.80469
0.01322	5.82681	1.52919	-0.09168	-3.49466	0.79441	-0.00082	11.06090	0.37116	-0.02341	0.80520
0.01353	5.88249	1.53000	-0.09124	-3.50423	0.79466	-0.00081	11.14397	0.37070	-0.02353	0.80579
0.01385	5.94562	1.53092	-0.09075	-3.51508	0.79498	-0.00080	11.23883	0.37018	-0.02367	0.80648
0.01417	6.01690	1.53196	-0.09020	-3.52734	0.79534	-0.00079	11.34660	0.36960	-0.02382	0.80727
0.01451	6.09556	1.53312	-0.08959	-3.54084	0.79570	-0.00078	11.46577	0.36896	-0.02398	0.80818
0.01485	6.18142	1.53439	-0.08892	-3.55554	0.79606	-0.00077	11.59596	0.36829	-0.02416	0.80923
0.01520	6.27493	1.53582	-0.08817	-3.57152	0.79645	-0.00075	11.73787	0.36759	-0.02435	0.81041
0.01556	6.37746	1.53743	-0.08735	-3.58903	0.79692	-0.00074	11.89379	0.36684	-0.02455	0.81174
0.01592	6.49214	1.53927	-0.08644	-3.60864	0.79751	-0.00072	12.06911	0.36601	-0.02477	0.81326
0.01630	6.61835	1.54133	-0.08543	-3.63016	0.79816	-0.00071	12.26293	0.36512	-0.02503	0.81505
0.01668	6.75167	1.54355	-0.08430	-3.65272	0.79863	-0.00069	12.46737	0.36427	-0.02531	0.81709
0.01707	6.88799	1.54594	-0.08303	-3.67557	0.79864	-0.00067	12.67395	0.36351	-0.02560	0.81932
0.01748	7.02697	1.54851	-0.08165	-3.69870	0.79805	-0.00065	12.88169	0.36288	-0.02592	0.82175
0.01789	7.16962	1.55122	-0.08018	-3.72226	0.79678	-0.00064	13.09328	0.36232	-0.02628	0.82452
0.01831	7.31291	1.55401	-0.07863	-3.74561	0.79483	-0.00062	13.30478	0.36187	-0.02668	0.82759
0.01874	7.45025	1.55690	-0.07700	-3.76759	0.79251	-0.00060	13.50441	0.36161	-0.02708	0.83073
0.01918	7.57181	1.55997	-0.07526	-3.78654	0.78983	-0.00059	13.67314	0.36170	-0.02749	0.83386
0.01963	7.67227	1.56318	-0.07340	-3.80151	0.78676	-0.00059	13.80233	0.36217	-0.02791	0.83716
0.02009	7.75641	1.56652	-0.07148	-3.81336	0.78350	-0.00059	13.90278	0.36293	-0.02834	0.84063
0.02057	7.83137	1.56997	-0.06954	-3.82348	0.77991	-0.00060	13.98523	0.36387	-0.02874	0.84387
0.02105	7.89653	1.57340	-0.06762	-3.83178	0.77561	-0.00061	14.04607	0.36499	-0.02909	0.84675
0.02154	7.95716	1.57690	-0.06573	-3.83931	0.77060	-0.00061	14.09389	0.36625	-0.02938	0.84931
0.02205	8.01193	1.58049	-0.06388	-3.84595	0.76476	-0.00062	14.12523	0.36765	-0.02964	0.85165
0.02257	8.04768	1.58396	-0.06210	-3.84931	0.75808	-0.00062	14.11738	0.36934	-0.02989	0.85389
0.02310	8.03929	1.58703	-0.06034	-3.84489	0.75058	-0.00063	14.02639	0.37160	-0.03012	0.85593
0.02364	7.97522	1.58946	-0.05855	-3.83049	0.74186	-0.00065	13.83381	0.37456	-0.03032	0.85777
0.02420	7.87341	1.59132	-0.05681	-3.80919	0.73204	-0.00067	13.57690	0.37799	-0.03052	0.85964
0.02477	7.75828	1.59292	-0.05523	-3.78534	0.72163	-0.00070	13.30214	0.38159	-0.03068	0.86121
0.02535	7.63447	1.59447	-0.05378	-3.75973	0.71098	-0.00073	13.01883	0.38533	-0.03081	0.86267
0.02595	7.48786	1.59627	-0.05227	-3.73004	0.70071	-0.00077	12.70112	0.38949	-0.03092	0.86399
0.02656	7.34185	1.59875	-0.05068	-3.70083	0.69174	-0.00081	12.38815	0.39375	-0.03092	0.86471
0.02719	7.21326	1.60198	-0.04900	-3.67527	0.68338	-0.00085	12.10639	0.39788	-0.03077	0.86437
0.02783	7.06057	1.60559	-0.04725	-3.64616	0.67346	-0.00089	11.77744	0.40256	-0.03048	0.86313
0.02848	6.85592	1.60945	-0.04542	-3.60851	0.66180	-0.00093	11.35556	0.40829	-0.03019	0.86179
0.02915	6.61700	1.61289	-0.04361	-3.56485	0.64949	-0.00099	10.88230	0.41466	-0.02998	0.86108
0.02984	6.39301	1.61522	-0.04202	-3.52331	0.63675	-0.00103	10.44521	0.42070	-0.02986	0.86111
0.03054	6.21695	1.61708	-0.04063	-3.49001	0.62412	-0.00105	10.09545	0.42590	-0.02990	0.86224
0.03126	6.05627	1.61915	-0.03926	-3.45957	0.61185	-0.00108	9.77765	0.43090	-0.03007	0.86422
0.03199	5.86477	1.62090	-0.03790	-3.42350	0.59973	-0.00111	9.42172	0.43642	-0.03025	0.86621
0.03275	5.62385	1.62210	-0.03656	-3.37843	0.58760	-0.00116	8.99852	0.44289	-0.03039	0.86784
0.03352	5.36657	1.62263	-0.03537	-3.32996	0.57549	-0.00120	8.56404	0.44968	-0.03052	0.86951
0.03430	5.11043	1.62256	-0.03425	-3.28086	0.56279	-0.00125	8.14643	0.45655	-0.03060	0.87096
0.03511	4.86492	1.62234	-0.03305	-3.23316	0.54940	-0.00130	7.75426	0.46341	-0.03037	0.87038
0.03594	4.64014	1.62196	-0.03180	-3.18935	0.53699	-0.00134	7.39770	0.46994	-0.02977	0.86737
0.03678	4.42911	1.62163	-0.03053	-3.14879	0.52691	-0.00138	7.06536	0.47617	-0.02914	0.86405
0.03765	4.24113	1.62196	-0.02935	-3.11328	0.51937	-0.00142	6.77244	0.48191	-0.02870	0.86208
0.03854	4.07408	1.62242	-0.02843	-3.08149	0.51194	-0.00145	6.51862	0.48718	-0.02855	0.86221
0.03944	3.91369	1.62247	-0.02784	-3.05043	0.50258	-0.00147	6.28235	0.49231	-0.02861	0.86378
0.04037	3.74321	1.62240	-0.02731	-3.01755	0.49098	-0.00149	6.03666	0.49785	-0.02866	0.86496
0.04132	3.55882	1.62262	-0.02661	-2.98254	0.47927	-0.00152	5.77496	0.50396	-0.02869	0.86574
0.04229	3.36291	1.62270	-0.02575	-2.94530	0.46840	-0.00155	5.50432	0.51049	-0.02871	0.86633
0.04329	3.17018	1.62201	-0.02500	-2.90850	0.45898	-0.00158	5.24474	0.51684	-0.02850	0.86543
0.04431	2.98607	1.62043	-0.02457	-2.87329	0.45177	-0.00161	5.00053	0.52279	-0.02814	0.86352
0.04535	2.81454	1.61876	-0.02441	-2.84057	0.44699	-0.00164	4.77784	0.52832	-0.02794	0.86271

0.04642	2.67247	1.61727	-0.02446	-2.81305	0.44437	-0.00167	4.59988	0.53290	-0.02815	0.86466
0.04751	2.53744	1.61553	-0.02458	-2.78607	0.44081	-0.00170	4.43914	0.53724	-0.02845	0.86719
0.04863	2.35642	1.61315	-0.02446	-2.74968	0.43344	-0.00174	4.23423	0.54314	-0.02842	0.86731
0.04977	2.11862	1.60970	-0.02408	-2.70150	0.42295	-0.00179	3.97912	0.55092	-0.02821	0.86608
0.05094	1.87928	1.60613	-0.02377	-2.65278	0.41296	-0.00184	3.73180	0.55891	-0.02804	0.86511
0.05214	1.68056	1.60369	-0.02365	-2.61248	0.40490	-0.00189	3.52803	0.56602	-0.02778	0.86374
0.05337	1.53597	1.60285	-0.02370	-2.58355	0.39970	-0.00193	3.37743	0.57169	-0.02735	0.86138
0.05462	1.42476	1.60303	-0.02376	-2.56190	0.39664	-0.00196	3.26014	0.57635	-0.02683	0.85844
0.05591	1.33676	1.60290	-0.02411	-2.54476	0.39344	-0.00197	3.16434	0.58018	-0.02628	0.85515
0.05722	1.26451	1.60223	-0.02483	-2.53049	0.38882	-0.00198	3.08119	0.58352	-0.02570	0.85166
0.05857	1.18614	1.60128	-0.02555	-2.51503	0.38340	-0.00198	2.99506	0.58702	-0.02516	0.84864
0.05995	1.09706	1.60023	-0.02616	-2.49765	0.37870	-0.00199	2.90565	0.59065	-0.02468	0.84611
0.06136	1.01969	1.59917	-0.02698	-2.48282	0.37617	-0.00200	2.83114	0.59353	-0.02424	0.84405
0.06280	0.95610	1.59835	-0.02811	-2.47106	0.37638	-0.00201	2.77048	0.59573	-0.02379	0.84239
0.06428	0.87518	1.59687	-0.02923	-2.45567	0.37685	-0.00202	2.69324	0.59863	-0.02329	0.84076
0.06579	0.76909	1.59356	-0.03030	-2.43396	0.37622	-0.00204	2.59448	0.60246	-0.02285	0.83945
0.06734	0.68062	1.58983	-0.03169	-2.41464	0.37661	-0.00207	2.51359	0.60556	-0.02253	0.83872
0.06893	0.62671	1.58669	-0.03366	-2.40177	0.37760	-0.00208	2.46115	0.60749	-0.02209	0.83679
0.07055	0.57590	1.58312	-0.03600	-2.38907	0.37614	-0.00208	2.40860	0.60950	-0.02152	0.83341
0.07221	0.52110	1.57955	-0.03839	-2.37596	0.37354	-0.00209	2.35286	0.61169	-0.02107	0.83072
0.07391	0.48134	1.57595	-0.04092	-2.36567	0.37225	-0.00209	2.31157	0.61304	-0.02085	0.82967
0.07565	0.43218	1.57097	-0.04351	-2.35218	0.37100	-0.00209	2.26591	0.61447	-0.02086	0.83029
0.07743	0.35068	1.56381	-0.04591	-2.33064	0.36640	-0.00210	2.19854	0.61698	-0.02103	0.83194
0.07925	0.25264	1.55592	-0.04806	-2.30515	0.35750	-0.00211	2.12199	0.62019	-0.02108	0.83275
0.08111	0.13725	1.54947	-0.04965	-2.27759	0.34684	-0.00212	2.03281	0.62461	-0.02077	0.83107
0.08302	0.00690	1.54326	-0.05099	-2.24808	0.33680	-0.00212	1.93035	0.63004	-0.02035	0.82843
0.08498	-0.09811	1.53595	-0.05288	-2.22283	0.33046	-0.00213	1.84764	0.63403	-0.02000	0.82618
0.08697	-0.18214	1.52837	-0.05517	-2.20096	0.32695	-0.00214	1.78545	0.63665	-0.01976	0.82442
0.08902	-0.26628	1.52056	-0.05758	-2.17853	0.32397	-0.00216	1.72785	0.63907	-0.01969	0.82365
0.09112	-0.33973	1.51245	-0.06035	-2.15788	0.32035	-0.00217	1.67876	0.64093	-0.01948	0.82243
0.09326	-0.39890	1.50501	-0.06341	-2.14066	0.31542	-0.00217	1.63881	0.64230	-0.01904	0.82033
0.09545	-0.45267	1.49893	-0.06633	-2.12588	0.31251	-0.00216	1.60389	0.64346	-0.01872	0.81958
0.09770	-0.50629	1.49418	-0.06891	-2.11242	0.31372	-0.00217	1.57254	0.64443	-0.01846	0.81968
0.10000	-0.56164	1.49028	-0.07115	-2.09967	0.31742	-0.00218	1.54168	0.64536	-0.01801	0.81875
0.10235	-0.62435	1.48649	-0.07309	-2.08598	0.32014	-0.00220	1.50677	0.64661	-0.01777	0.81914
0.10476	-0.68487	1.48243	-0.07512	-2.07237	0.32133	-0.00221	1.47480	0.64766	-0.01800	0.82313
0.10723	-0.73384	1.47892	-0.07738	-2.06122	0.32293	-0.00222	1.45214	0.64804	-0.01847	0.82952
0.10975	-0.75476	1.47619	-0.07982	-2.05662	0.32617	-0.00222	1.44827	0.64677	-0.01900	0.83614
0.11233	-0.75673	1.47302	-0.08227	-2.05589	0.33085	-0.00222	1.45743	0.64417	-0.01933	0.84064
0.11498	-0.75296	1.46881	-0.08485	-2.05546	0.33580	-0.00221	1.46991	0.64111	-0.01918	0.84134
0.11768	-0.74171	1.46507	-0.08770	-2.05668	0.34278	-0.00221	1.48627	0.63776	-0.01860	0.83905
0.12045	-0.74067	1.46252	-0.09047	-2.05683	0.35338	-0.00223	1.49690	0.63497	-0.01758	0.83403
0.12328	-0.76320	1.45931	-0.09321	-2.05143	0.36371	-0.00225	1.49345	0.63329	-0.01621	0.82713
0.12619	-0.79158	1.45466	-0.09625	-2.04303	0.37009	-0.00227	1.48694	0.63176	-0.01475	0.81980
0.12916	-0.81575	1.45014	-0.09936	-2.03536	0.37162	-0.00227	1.48189	0.63027	-0.01311	0.81074
0.13219	-0.85515	1.44615	-0.10221	-2.02511	0.36762	-0.00225	1.46396	0.63023	-0.01145	0.80052
0.13531	-0.91529	1.44284	-0.10471	-2.01114	0.35967	-0.00224	1.43220	0.63182	-0.01025	0.79264
0.13849	-0.96714	1.44096	-0.10711	-1.99967	0.35267	-0.00223	1.40954	0.63294	-0.00964	0.78825
0.14175	-1.00428	1.43989	-0.10971	-1.99171	0.35145	-0.00224	1.40142	0.63261	-0.00936	0.78585
0.14508	-1.03242	1.43863	-0.11270	-1.98598	0.35858	-0.00228	1.40245	0.63087	-0.00916	0.78421
0.14850	-1.08015	1.43694	-0.11558	-1.97711	0.36798	-0.00232	1.38891	0.63008	-0.00888	0.78222
0.15199	-1.16646	1.43489	-0.11796	-1.96094	0.36981	-0.00235	1.34573	0.63223	-0.00833	0.77820
0.15557	-1.30135	1.43211	-0.11982	-1.93425	0.36104	-0.00236	1.26852	0.63821	-0.00764	0.77285
0.15923	-1.48051	1.42812	-0.12135	-1.89729	0.34603	-0.00237	1.16321	0.64776	-0.00709	0.76847
0.16298	-1.65767	1.42264	-0.12289	-1.85894	0.33079	-0.00239	1.06241	0.65757	-0.00687	0.76638
0.16681	-1.79465	1.41611	-0.12489	-1.82704	0.31820	-0.00240	0.99049	0.66448	-0.00695	0.76647
0.17074	-1.88952	1.41012	-0.12737	-1.80359	0.30978	-0.00241	0.94656	0.66821	-0.00737	0.76897
0.17475	-1.96490	1.40538	-0.12999	-1.78538	0.30449	-0.00241	0.91344	0.67085	-0.00812	0.77347
0.17887	-2.02635	1.40212	-0.13276	-1.77173	0.30246	-0.00241	0.88661	0.67290	-0.00895	0.77856
0.18307	-2.05383	1.40086	-0.13612	-1.76717	0.30921	-0.00242	0.88017	0.67201	-0.00964	0.78325
0.18738	-2.03260	1.40117	-0.14009	-1.77415	0.32568	-0.00244	0.90543	0.66640	-0.01016	0.78775
0.19179	-1.98596	1.40156	-0.14408	-1.78599	0.34334	-0.00245	0.95105	0.65809	-0.01063	0.79290
0.19631	-1.91916	1.40174	-0.14802	-1.80126	0.35872	-0.00245	1.01296	0.64809	-0.01117	0.79879
0.20092	-1.82761	1.40266	-0.15225	-1.82231	0.37491	-0.00243	1.09229	0.63661	-0.01162	0.80389
0.20565	-1.73777	1.40467	-0.15662	-1.84457	0.39251	-0.00242	1.17235	0.62578	-0.01179	0.80695
0.21049	-1.66445	1.40753	-0.16088	-1.86476	0.41065	-0.00241	1.24332	0.61659	-0.01186	0.80943
0.21544	-1.61509	1.41093	-0.16475	-1.88102	0.42669	-0.00241	1.29995	0.60935	-0.01190	0.81170
0.22051	-1.58304	1.41503	-0.16810	-1.89451	0.44090	-0.00241	1.34674	0.60355	-0.01164	0.81188
0.22570	-1.54909	1.41948	-0.17119	-1.90815	0.45392	-0.00241	1.39471	0.59819	-0.01078	0.80789
0.23101	-1.53198	1.42203	-0.17437	-1.91603	0.45958	-0.00239	1.42725	0.59437	-0.00936	0.80002
0.23645	-1.56821	1.42088	-0.17774	-1.90995	0.45206	-0.00235	1.41867	0.59364	-0.00797	0.79191
0.24201	-1.67226	1.41622	-0.18115	-1.88781	0.43485	-0.00232	1.36219	0.59638	-0.00725	0.78799
0.24771	-1.81348	1.41008	-0.18456	-1.85720	0.41977	-0.00231	1.28585	0.60059	-0.00724	0.78896
0.25354	-1.91108	1.40599	-0.18821	-1.83683	0.42040	-0.00233	1.24904	0.60124	-0.00747	0.79206
0.25950	-1.90629	1.40704	-0.19211	-1.84096	0.44023	-0.00238	1.29027	0.59512	-0.00764	0.79539
0.26561	-1.82962	1.41262	-0.19602	-1.86309	0.46780	-0.00242	1.38758	0.58512	-0.00777	0.79868
0.27186	-1.76965	1.41871	-0.19984	-1.88235	0.48624	-0.00244	1.47454	0.57703	-0.00780	0.80148
0.27826	-1.79456	1.42128	-0.20365	-1.88208	0.48698	-0.00243	1.49344	0.57441	-0.00791	0.80481
0.28480	-1.91314	1.41868	-0.20757	-1.85930	0.47197	-0.00241	1.43469	0.57728	-0.00836	0.81034
0.29150	-2.08868	1.41250	-0.21153	-1.82234	0.44879	-0.00239	1.33179	0.58348	-0.00885	0.81587
0.29836	-2.25533	1.40621	-0.21543	-1.78698	0.42818	-0.00236	1.23765	0.58929	-0.00876	0.81730

0.30539	-2.36068	1.40290	-0.21922	-1.76613	0.41949	-0.00234	1.18899	0.59149	-0.00797	0.81367
0.31257	-2.42705	1.40286	-0.22257	-1.75522	0.42257	-0.00235	1.16857	0.59162	-0.00693	0.80784
0.31993	-2.48621	1.40520	-0.22533	-1.74719	0.43222	-0.00238	1.15391	0.59181	-0.00622	0.80367
0.32745	-2.52934	1.40972	-0.22770	-1.74424	0.44444	-0.00241	1.15140	0.59118	-0.00614	0.80378
0.33517	-2.55759	1.41539	-0.22989	-1.74594	0.45519	-0.00244	1.16199	0.58917	-0.00657	0.80744
0.34304	-2.60233	1.41978	-0.23223	-1.74417	0.45997	-0.00245	1.16518	0.58722	-0.00708	0.81141
0.35112	-2.67828	1.42169	-0.23515	-1.73483	0.45885	-0.00247	1.15029	0.58614	-0.00720	0.81237
0.35938	-2.77121	1.42177	-0.23878	-1.72087	0.45619	-0.00248	1.12452	0.58563	-0.00695	0.81100
0.36784	-2.86114	1.42162	-0.24292	-1.70708	0.45647	-0.00250	1.09953	0.58515	-0.00681	0.81089
0.37649	-2.93429	1.42294	-0.24712	-1.69751	0.46222	-0.00253	1.08482	0.58415	-0.00703	0.81385
0.38536	-2.98479	1.42651	-0.25118	-1.69431	0.47417	-0.00257	1.08699	0.58189	-0.00742	0.81820
0.39442	-3.02026	1.43132	-0.25527	-1.69545	0.49026	-0.00262	1.10330	0.57817	-0.00765	0.82149
0.40370	-3.05923	1.43547	-0.25965	-1.69579	0.50653	-0.00266	1.12087	0.57386	-0.00768	0.82341
0.41321	-3.12483	1.43715	-0.26453	-1.68900	0.51743	-0.00270	1.11967	0.57081	-0.00752	0.82441
0.42292	-3.23037	1.43605	-0.26975	-1.67182	0.51884	-0.00272	1.08799	0.57039	-0.00704	0.82403
0.43288	-3.35845	1.43413	-0.27485	-1.64922	0.51303	-0.00274	1.04088	0.57169	-0.00615	0.82181
0.44307	-3.46851	1.43393	-0.27968	-1.63162	0.50833	-0.00275	1.01029	0.57170	-0.00499	0.81836
0.45349	-3.52938	1.43651	-0.28448	-1.62668	0.51060	-0.00275	1.01953	0.56764	-0.00382	0.81463
0.46417	-3.54226	1.44135	-0.28938	-1.63423	0.51751	-0.00274	1.06564	0.55980	-0.00292	0.81178
0.47508	-3.53291	1.44710	-0.29445	-1.64797	0.52241	-0.00270	1.12652	0.55078	-0.00233	0.81037
0.48626	-3.53362	1.45234	-0.29981	-1.65990	0.52239	-0.00264	1.17708	0.54293	-0.00195	0.81015
0.49771	-3.57342	1.45611	-0.30546	-1.66262	0.51793	-0.00259	1.19651	0.53789	-0.00165	0.81073
0.50942	-3.66599	1.45820	-0.31118	-1.65270	0.51106	-0.00258	1.17671	0.53627	-0.00136	0.81162
0.52140	-3.80080	1.45914	-0.31662	-1.63271	0.50401	-0.00259	1.12824	0.53724	-0.00109	0.81277
0.53367	-3.94709	1.46020	-0.32163	-1.61018	0.49990	-0.00263	1.07471	0.53897	-0.00099	0.81534
0.54624	-4.08669	1.46233	-0.32622	-1.58967	0.50078	-0.00267	1.02792	0.54057	-0.00119	0.82044
0.55910	-4.21432	1.46565	-0.33055	-1.57220	0.50611	-0.00273	0.99100	0.54171	-0.00162	0.82757
0.57225	-4.33664	1.46992	-0.33465	-1.55642	0.51276	-0.00279	0.96046	0.54251	-0.00190	0.83408
0.58569	-4.46647	1.47480	-0.33851	-1.54002	0.51697	-0.00284	0.92823	0.54354	-0.00164	0.83737
0.59948	-4.61557	1.47979	-0.34232	-1.52072	0.51589	-0.00287	0.88623	0.54554	-0.00077	0.83679
0.61357	-4.78590	1.48442	-0.34626	-1.49779	0.50916	-0.00288	0.83259	0.54875	0.00048	0.83349
0.62802	-4.96211	1.48876	-0.35046	-1.47441	0.49987	-0.00289	0.77775	0.55199	0.00179	0.82932
0.64280	-5.12431	1.49323	-0.35486	-1.45472	0.49142	-0.00288	0.73365	0.55381	0.00302	0.82530
0.65794	-5.26331	1.49814	-0.35932	-1.44045	0.48614	-0.00286	0.70568	0.55341	0.00417	0.82153
0.67340	-5.37844	1.50335	-0.36369	-1.43124	0.48545	-0.00285	0.69410	0.55065	0.00514	0.81852
0.68927	-5.47506	1.50888	-0.36787	-1.42575	0.48930	-0.00285	0.69593	0.54603	0.00574	0.81761
0.70547	-5.55841	1.51456	-0.37195	-1.42241	0.49480	-0.00285	0.70673	0.54044	0.00580	0.82011
0.72207	-5.63225	1.52029	-0.37609	-1.42039	0.49901	-0.00285	0.72452	0.53417	0.00540	0.82570
0.73910	-5.69700	1.52621	-0.38037	-1.41999	0.50110	-0.00285	0.75128	0.52679	0.00490	0.83178
0.75649	-5.75399	1.53258	-0.38474	-1.42134	0.50205	-0.00284	0.78914	0.51802	0.00469	0.83566
0.77429	-5.80890	1.53957	-0.38919	-1.42355	0.50259	-0.00283	0.83506	0.50851	0.00485	0.83664
0.79246	-5.86962	1.54712	-0.39375	-1.42502	0.50287	-0.00283	0.88017	0.49960	0.00522	0.83558
0.81116	-5.94383	1.55511	-0.39841	-1.42434	0.50273	-0.00282	0.91642	0.49210	0.00563	0.83356
0.83022	-6.03706	1.56305	-0.40297	-1.41988	0.50182	-0.00283	0.93780	0.48637	0.00600	0.83079
0.84976	-6.14906	1.57079	-0.40726	-1.41145	0.50162	-0.00285	0.94614	0.48190	0.00634	0.82727
0.86972	-6.26784	1.57848	-0.41118	-1.40164	0.50474	-0.00288	0.95115	0.47760	0.00660	0.82382
0.89023	-6.38155	1.58654	-0.41482	-1.39345	0.51158	-0.00292	0.96176	0.47265	0.00679	0.82110
0.91116	-6.48784	1.59507	-0.41825	-1.38749	0.51977	-0.00295	0.97703	0.46742	0.00694	0.81937
0.93257	-6.59277	1.60396	-0.42152	-1.38235	0.52718	-0.00297	0.99056	0.46267	0.00707	0.81867
0.95456	-6.70457	1.61313	-0.42456	-1.37631	0.53388	-0.00300	0.99446	0.45916	0.00725	0.81844
0.97704	-6.82330	1.62271	-0.42734	-1.36962	0.54178	-0.00302	0.98788	0.45692	0.00766	0.81755
1.00000	-6.94136	1.63290	-0.42993	-1.36423	0.55282	-0.00305	0.97801	0.45515	0.00831	0.81592
1.02354	-7.04711	1.64386	-0.43247	-1.36284	0.56873	-0.00308	0.97712	0.45246	0.00900	0.81490
1.04767	-7.13017	1.65539	-0.43509	-1.36747	0.58993	-0.00311	0.99749	0.44741	0.00950	0.81564
1.07227	-7.18882	1.66697	-0.43786	-1.37788	0.61443	-0.00313	1.04391	0.43945	0.00975	0.81833
1.09745	-7.23286	1.67801	-0.44080	-1.39131	0.63850	-0.00314	1.11206	0.42908	0.00984	0.82215
1.12334	-7.27406	1.68796	-0.44392	-1.40458	0.65900	-0.00314	1.19634	0.41688	0.00997	0.82564
1.14982	-7.31778	1.69667	-0.44714	-1.41627	0.67555	-0.00314	1.29578	0.40313	0.01027	0.82783
1.17675	-7.36629	1.70453	-0.45025	-1.42625	0.68943	-0.00313	1.41034	0.38823	0.01076	0.82857
1.20453	-7.42419	1.71234	-0.45306	-1.43468	0.70207	-0.00314	1.53823	0.37270	0.01147	0.82768
1.23289	-7.49632	1.72062	-0.45535	-1.44100	0.71330	-0.00314	1.67052	0.35758	0.01241	0.82504
1.26183	-7.58709	1.72967	-0.45703	-1.44456	0.72295	-0.00315	1.79768	0.34357	0.01356	0.82092
1.29149	-7.69825	1.73956	-0.45818	-1.44503	0.73116	-0.00317	1.91427	0.33082	0.01487	0.81570
1.32188	-7.82862	1.75005	-0.45891	-1.44226	0.73788	-0.00319	2.01780	0.31924	0.01628	0.80979
1.35300	-7.97498	1.76090	-0.45937	-1.43647	0.74284	-0.00321	2.10721	0.30873	0.01767	0.80401
1.38485	-8.13196	1.77200	-0.45963	-1.42851	0.74610	-0.00324	2.18347	0.29925	0.01887	0.79969
1.41743	-8.29543	1.78324	-0.45973	-1.41901	0.74754	-0.00326	2.24650	0.29085	0.01971	0.79803
1.45075	-8.46395	1.79448	-0.45972	-1.40801	0.74656	-0.00327	2.29521	0.28349	0.02018	0.79913
1.48500	-8.63688	1.80571	-0.45971	-1.39564	0.74286	-0.00328	2.33153	0.27697	0.02041	0.80204
1.51999	-8.81012	1.81700	-0.45973	-1.38279	0.73724	-0.00329	2.35845	0.27121	0.02053	0.80576
1.55569	-8.98124	1.82860	-0.45978	-1.37026	0.73095	-0.00329	2.37595	0.26639	0.02060	0.81008
1.59236	-9.15354	1.84084	-0.45984	-1.35766	0.72429	-0.00329	2.37545	0.26298	0.02062	0.81521
1.62973	-9.32999	1.85372	-0.45992	-1.34419	0.71675	-0.00329	2.34643	0.26148	0.02061	0.82118
1.66806	-9.51158	1.86731	-0.46000	-1.32968	0.70814	-0.00329	2.28849	0.26192	0.02051	0.82832
1.70736	-9.69365	1.88149	-0.46013	-1.31498	0.69886	-0.00329	2.21092	0.26398	0.02022	0.83725
1.74764	-9.87104	1.89612	-0.46036	-1.30105	0.68947	-0.00328	2.12466	0.26724	0.01968	0.84837
1.78859	-10.03912	1.91096	-0.46072	-1.28855	0.68051	-0.00327	2.03828	0.27129	0.01887	0.86160
1.83083	-10.19911	1.92607	-0.46125	-1.27746	0.67184	-0.00326	1.95449	0.27593	0.01783	0.87685
1.87371	-10.34881	1.94111	-0.46194	-1.26778	0.66345	-0.00324	1.87556	0.28092	0.01661	0.89347
1.91791	-10.49118	1.95621	-0.46281	-1.25922	0.65524	-0.00322	1.80058	0.28619	0.01527	0.91111
1.96309	-10.62558	1.97119	-0.46384	-1.25175	0.64744	-0.00320	1.73052	0.29157	0.01390	0.92888

2.00924	-10.75390	1.98601	-0.46502	-1.24503	0.63997	-0.00318	1.66372	0.29703	0.01258	0.94604
2.05634	-10.87765	2.00066	-0.46628	-1.23883	0.63283	-0.00316	1.59937	0.30254	0.01137	0.96186
2.10482	-10.99850	2.01525	-0.46760	-1.23308	0.62625	-0.00314	1.53754	0.30803	0.01032	0.97591
2.15424	-11.11531	2.02962	-0.46894	-1.22789	0.62061	-0.00312	1.47999	0.31330	0.00944	0.98783
2.20507	-11.22860	2.04387	-0.47029	-1.22335	0.61622	-0.00310	1.42788	0.31820	0.00869	0.99784
2.25683	-11.33590	2.05780	-0.47163	-1.21985	0.61368	-0.00308	1.38476	0.32236	0.00804	1.00616
2.31000	-11.43701	2.07150	-0.47296	-1.21767	0.61356	-0.00307	1.35271	0.32552	0.00747	1.01312
2.36463	-11.53124	2.08492	-0.47427	-1.21704	0.61651	-0.00306	1.33380	0.32737	0.00701	1.01869
2.42014	-11.61870	2.09792	-0.47552	-1.21786	0.62263	-0.00305	1.32795	0.32780	0.00669	1.02266
2.47709	-11.70162	2.11062	-0.47667	-1.21999	0.63199	-0.00305	1.33511	0.32673	0.00659	1.02490
2.53550	-11.78216	2.12302	-0.47764	-1.22309	0.64432	-0.00306	1.35375	0.32422	0.00673	1.02548
2.59471	-11.86244	2.13504	-0.47835	-1.22662	0.65852	-0.00308	1.38052	0.32059	0.00711	1.02458
2.65604	-11.94683	2.14703	-0.47868	-1.23033	0.67413	-0.00309	1.41406	0.31599	0.00774	1.02245
2.71887	-12.03361	2.15889	-0.47863	-1.23435	0.69079	-0.00311	1.45517	0.31053	0.00856	1.01968
2.78242	-12.11988	2.17050	-0.47818	-1.23905	0.70817	-0.00313	1.50686	0.30421	0.00950	1.01691
2.84819	-12.20422	2.18214	-0.47733	-1.24532	0.72704	-0.00315	1.57759	0.29658	0.01052	1.01477
2.91545	-12.28312	2.19360	-0.47617	-1.25336	0.74731	-0.00317	1.67104	0.28771	0.01154	1.01389
2.98329	-12.35593	2.20476	-0.47462	-1.26318	0.76860	-0.00319	1.78935	0.27779	0.01254	1.01435
3.05344	-12.42602	2.21588	-0.47270	-1.27444	0.78993	-0.00320	1.93146	0.26713	0.01351	1.01619
3.12598	-12.49846	2.22705	-0.47029	-1.28638	0.81027	-0.00321	2.09285	0.25616	0.01446	1.01892
3.19898	-12.57441	2.23794	-0.46750	-1.29778	0.82797	-0.00321	2.25924	0.24577	0.01537	1.02217
3.27439	-12.66105	2.24903	-0.46417	-1.30817	0.84308	-0.00320	2.42611	0.23605	0.01631	1.02519
3.35121	-12.75918	2.26016	-0.46039	-1.31675	0.85529	-0.00319	2.57983	0.22755	0.01724	1.02778
3.43053	-12.87282	2.27168	-0.45600	-1.32344	0.86523	-0.00318	2.71807	0.22017	0.01822	1.02967
3.51124	-12.99768	2.28322	-0.45127	-1.32811	0.87349	-0.00317	2.83374	0.21409	0.01913	1.03148
3.59324	-13.13487	2.29484	-0.44610	-1.33083	0.88077	-0.00317	2.92523	0.20928	0.01997	1.03317
3.67782	-13.27991	2.30657	-0.44072	-1.33221	0.88741	-0.00316	2.99895	0.20539	0.02065	1.03584
3.76506	-13.43432	2.31825	-0.43487	-1.33236	0.89422	-0.00317	3.05767	0.20229	0.02117	1.03942
3.85356	-13.58905	2.32988	-0.42902	-1.33190	0.90069	-0.00318	3.10734	0.19969	0.02145	1.04464
3.94477	-13.74821	2.34105	-0.42285	-1.33059	0.90726	-0.00319	3.14638	0.19766	0.02152	1.05096
4.03714	-13.90732	2.35228	-0.41671	-1.32876	0.91339	-0.00320	3.17631	0.19609	0.02137	1.05848
4.13223	-14.06710	2.36301	-0.41054	-1.32629	0.91955	-0.00322	3.19500	0.19503	0.02105	1.06679
4.23012	-14.23030	2.37368	-0.40416	-1.32320	0.92571	-0.00324	3.20243	0.19446	0.02057	1.07541
4.32900	-14.39030	2.38441	-0.39808	-1.31981	0.93087	-0.00326	3.19981	0.19429	0.01999	1.08411
4.43066	-14.55146	2.39425	-0.39184	-1.31569	0.93507	-0.00328	3.18361	0.19466	0.01936	1.09232
4.53515	-14.71462	2.40484	-0.38560	-1.31140	0.93820	-0.00329	3.15986	0.19535	0.01865	1.10053
4.64253	-14.87425	2.41516	-0.37955	-1.30721	0.94043	-0.00330	3.13136	0.19629	0.01792	1.10854
4.75059	-15.02983	2.42450	-0.37341	-1.30292	0.94179	-0.00331	3.09700	0.19755	0.01718	1.11598
4.86145	-15.18614	2.43520	-0.36739	-1.29904	0.94257	-0.00331	3.06236	0.19891	0.01640	1.12340
4.97760	-15.33893	2.44523	-0.36142	-1.29548	0.94323	-0.00332	3.02937	0.20027	0.01563	1.13066
5.09424	-15.48560	2.45423	-0.35538	-1.29216	0.94365	-0.00332	2.99629	0.20176	0.01485	1.13759
5.21376	-15.63490	2.46513	-0.34946	-1.28930	0.94387	-0.00331	2.96397	0.20330	0.01405	1.14450
5.33618	-15.77671	2.47505	-0.34380	-1.28683	0.94431	-0.00331	2.93591	0.20470	0.01330	1.15111
5.46150	-15.91239	2.48333	-0.33794	-1.28456	0.94490	-0.00331	2.90981	0.20609	0.01257	1.15763
5.58971	-16.05364	2.49395	-0.33206	-1.28268	0.94544	-0.00330	2.88418	0.20754	0.01182	1.16427
5.72082	-16.19166	2.50491	-0.32650	-1.28121	0.94615	-0.00329	2.86215	0.20885	0.01113	1.17086
5.85823	-16.31926	2.51264	-0.32081	-1.27988	0.94707	-0.00329	2.84319	0.21007	0.01047	1.17769
5.99520	-16.44880	2.52179	-0.31502	-1.27883	0.94788	-0.00328	2.82396	0.21139	0.00983	1.18461
6.13497	-16.58586	2.53379	-0.30936	-1.27808	0.94872	-0.00327	2.80510	0.21270	0.00921	1.19158
6.28141	-16.71163	2.54302	-0.30399	-1.27749	0.94974	-0.00327	2.79027	0.21382	0.00865	1.19866
6.42674	-16.82382	2.54933	-0.29864	-1.27702	0.95071	-0.00326	2.77731	0.21489	0.00811	1.20577
6.57895	-16.95065	2.55913	-0.29289	-1.27678	0.95172	-0.00325	2.76267	0.21612	0.00756	1.21324
6.73401	-17.08666	2.57197	-0.28727	-1.27672	0.95281	-0.00324	2.74822	0.21731	0.00705	1.22065
6.89180	-17.19933	2.57970	-0.28233	-1.27675	0.95398	-0.00323	2.73904	0.21820	0.00660	1.22797
7.05716	-17.30229	2.58445	-0.27719	-1.27692	0.95510	-0.00323	2.73115	0.21910	0.00613	1.23566
7.22022	-17.41597	2.59268	-0.27186	-1.27722	0.95618	-0.00322	2.72150	0.22010	0.00568	1.24302
7.39098	-17.54905	2.60546	-0.26619	-1.27762	0.95738	-0.00320	2.71007	0.22120	0.00523	1.25025
7.56430	-17.66413	2.61479	-0.26140	-1.27806	0.95863	-0.00319	2.70304	0.22200	0.00486	1.25693
7.73994	-17.74338	2.61586	-0.25733	-1.27859	0.95970	-0.00319	2.70104	0.22254	0.00450	1.26334
7.92393	-17.83767	2.62002	-0.25261	-1.27926	0.96077	-0.00318	2.69652	0.22327	0.00411	1.26954
8.11030	-17.94649	2.62783	-0.24752	-1.27999	0.96191	-0.00317	2.68994	0.22412	0.00372	1.27524
8.29876	-18.07530	2.64069	-0.24210	-1.28073	0.96319	-0.00315	2.68127	0.22508	0.00337	1.28033
8.49618	-18.16715	2.64536	-0.23823	-1.28145	0.96438	-0.00314	2.67955	0.22555	0.00307	1.28511
8.69565	-18.21570	2.64056	-0.23552	-1.28227	0.96526	-0.00314	2.68331	0.22571	0.00278	1.28984
8.90472	-18.28719	2.64053	-0.23190	-1.28319	0.96624	-0.00313	2.68351	0.22612	0.00246	1.29461
9.11577	-18.36617	2.64250	-0.22809	-1.28414	0.96725	-0.00312	2.68247	0.22659	0.00214	1.29927
9.32836	-18.47766	2.65178	-0.22307	-1.28515	0.96841	-0.00311	2.67664	0.22740	0.00181	1.30392
9.54198	-18.57477	2.65868	-0.21913	-1.28603	0.96956	-0.00310	2.67413	0.22791	0.00156	1.30842
9.76563	-18.59061	2.64826	-0.21870	-1.28678	0.97029	-0.00310	2.68391	0.22753	0.00138	1.31329
10.00000	-18.60094	2.63645	-0.21843	-1.28761	0.97099	-0.00310	2.69420	0.22712	0.00119	1.31892

Regression Coefficients for Soil Attenuation Relationships by Fernandez (2007)

Upper Mississippi Embayment
Silva et al. (2003) model
Low stress drop
Uplands soil profile
EPRI (1993) soil properties
Depth 610 - 1220 m

Periods	c1	c2	c3	c4	c5	c6	c7	c8	c9	c10
PGD	-2.03775	2.41658	-0.24910	-2.66127	0.98722	-0.00091	7.57324	0.28539	0.01888	0.30427
PGV	10.21550	1.90422	-0.15623	-4.11324	1.23982	0.00047	20.57484	0.23052	-0.01009	0.50138
PGA	5.15644	1.53706	-0.09249	-3.40618	0.65657	-0.00046	9.68722	0.38671	-0.03549	0.84870
0.01000	5.21674	1.54412	-0.09161	-3.41415	0.64233	-0.00045	9.74700	0.38904	-0.02490	0.81276
0.01024	5.23107	1.54445	-0.09145	-3.41659	0.64216	-0.00045	9.76371	0.38900	-0.02493	0.81319
0.01048	5.24742	1.54479	-0.09127	-3.41939	0.64203	-0.00045	9.78344	0.38894	-0.02496	0.81360
0.01072	5.26593	1.54517	-0.09108	-3.42257	0.64194	-0.00045	9.80634	0.38885	-0.02500	0.81398
0.01097	5.28677	1.54557	-0.09088	-3.42617	0.64189	-0.00044	9.83266	0.38874	-0.02504	0.81435
0.01123	5.31016	1.54601	-0.09066	-3.43022	0.64188	-0.00044	9.86268	0.38860	-0.02509	0.81470
0.01150	5.33641	1.54649	-0.09043	-3.43477	0.64192	-0.00043	9.89688	0.38842	-0.02514	0.81505
0.01177	5.36595	1.54702	-0.09017	-3.43991	0.64200	-0.00043	9.93586	0.38821	-0.02520	0.81539
0.01205	5.39938	1.54761	-0.08990	-3.44575	0.64213	-0.00043	9.98054	0.38796	-0.02526	0.81574
0.01233	5.43719	1.54826	-0.08960	-3.45236	0.64231	-0.00042	10.03160	0.38766	-0.02533	0.81610
0.01262	5.47974	1.54900	-0.08927	-3.45981	0.64255	-0.00041	10.08955	0.38732	-0.02541	0.81649
0.01292	5.52739	1.54981	-0.08891	-3.46817	0.64284	-0.00041	10.15490	0.38693	-0.02550	0.81691
0.01322	5.58064	1.55072	-0.08851	-3.47751	0.64318	-0.00040	10.22837	0.38649	-0.02560	0.81738
0.01353	5.64047	1.55174	-0.08808	-3.48801	0.64356	-0.00039	10.31146	0.38599	-0.02571	0.81791
0.01385	5.70819	1.55289	-0.08759	-3.49991	0.64401	-0.00038	10.40614	0.38542	-0.02583	0.81852
0.01417	5.78431	1.55419	-0.08706	-3.51329	0.64453	-0.00037	10.51303	0.38479	-0.02597	0.81923
0.01451	5.86854	1.55565	-0.08646	-3.52808	0.64507	-0.00035	10.63159	0.38410	-0.02612	0.82007
0.01485	5.96091	1.55726	-0.08579	-3.54427	0.64561	-0.00034	10.76177	0.38337	-0.02628	0.82105
0.01520	6.06255	1.55905	-0.08504	-3.56203	0.64617	-0.00032	10.90551	0.38258	-0.02647	0.82220
0.01556	6.17349	1.56103	-0.08422	-3.58135	0.64676	-0.00031	11.06287	0.38175	-0.02667	0.82352
0.01592	6.29360	1.56321	-0.08332	-3.60221	0.64732	-0.00029	11.23342	0.38090	-0.02689	0.82506
0.01630	6.42349	1.56562	-0.08232	-3.62472	0.64783	-0.00027	11.41775	0.38001	-0.02713	0.82683
0.01668	6.56194	1.56829	-0.08122	-3.64868	0.64823	-0.00025	11.61340	0.37914	-0.02738	0.82878
0.01707	6.70897	1.57123	-0.08003	-3.67402	0.64852	-0.00024	11.82120	0.37829	-0.02765	0.83087
0.01748	6.86251	1.57435	-0.07876	-3.70024	0.64842	-0.00022	12.03834	0.37748	-0.02794	0.83317
0.01789	7.01406	1.57757	-0.07738	-3.72571	0.64735	-0.00020	12.24958	0.37686	-0.02825	0.83570
0.01831	7.16178	1.58089	-0.07590	-3.75013	0.64550	-0.00018	12.45177	0.37646	-0.02858	0.83840
0.01874	7.30983	1.58444	-0.07433	-3.77436	0.64358	-0.00017	12.65219	0.37618	-0.02893	0.84126
0.01918	7.45261	1.58824	-0.07269	-3.79748	0.64159	-0.00016	12.84059	0.37612	-0.02926	0.84410
0.01963	7.58343	1.59211	-0.07100	-3.81824	0.63931	-0.00015	13.00652	0.37631	-0.02958	0.84684
0.02009	7.68981	1.59585	-0.06926	-3.83442	0.63582	-0.00015	13.12722	0.37692	-0.02991	0.84965
0.02057	7.76157	1.59927	-0.06743	-3.84412	0.63042	-0.00015	13.18573	0.37806	-0.03029	0.85284
0.02105	7.80150	1.60238	-0.06549	-3.84772	0.62338	-0.00015	13.18993	0.37968	-0.03069	0.85616
0.02154	7.80619	1.60534	-0.06348	-3.84476	0.61513	-0.00016	13.13184	0.38186	-0.03104	0.85915
0.02205	7.76691	1.60821	-0.06140	-3.83385	0.60610	-0.00019	12.99400	0.38474	-0.03131	0.86176
0.02257	7.71997	1.61114	-0.05936	-3.82176	0.59797	-0.00021	12.84208	0.38774	-0.03150	0.86381
0.02310	7.70540	1.61424	-0.05753	-3.81577	0.59162	-0.00023	12.74968	0.39015	-0.03166	0.86565
0.02364	7.69284	1.61751	-0.05582	-3.81032	0.58546	-0.00025	12.66397	0.39250	-0.03188	0.86775
0.02420	7.63243	1.62092	-0.05407	-3.79650	0.57856	-0.00028	12.49571	0.39562	-0.03214	0.87014
0.02477	7.53399	1.62423	-0.05236	-3.77607	0.57133	-0.00032	12.26286	0.39932	-0.03245	0.87276
0.02535	7.43436	1.62704	-0.05080	-3.75548	0.56363	-0.00035	12.02999	0.40296	-0.03270	0.87503
0.02595	7.33523	1.62954	-0.04933	-3.73506	0.55522	-0.00038	11.79898	0.40657	-0.03281	0.87634
0.02656	7.19930	1.63181	-0.04777	-3.70804	0.54581	-0.00041	11.50921	0.41080	-0.03286	0.87720
0.02719	7.00828	1.63359	-0.04601	-3.67089	0.53583	-0.00046	11.13663	0.41591	-0.03298	0.87843
0.02783	6.76639	1.63502	-0.04403	-3.62471	0.52661	-0.00052	10.69177	0.42182	-0.03308	0.87945
0.02848	6.50705	1.63660	-0.04202	-3.57584	0.51761	-0.00059	10.22739	0.42813	-0.03311	0.87994
0.02915	6.26258	1.63851	-0.04018	-3.52995	0.50801	-0.00065	9.79371	0.43438	-0.03301	0.87966
0.02984	6.03942	1.64115	-0.03851	-3.48848	0.49788	-0.00070	9.39582	0.44052	-0.03283	0.87911
0.03054	5.81186	1.64397	-0.03695	-3.44661	0.48604	-0.00075	8.99322	0.44700	-0.03265	0.87867
0.03126	5.57047	1.64593	-0.03549	-3.40216	0.47318	-0.00079	8.57756	0.45377	-0.03229	0.87705
0.03199	5.35215	1.64727	-0.03415	-3.36165	0.46226	-0.00083	8.20826	0.45999	-0.03166	0.87365
0.03275	5.16906	1.64888	-0.03282	-3.32756	0.45523	-0.00087	7.90299	0.46542	-0.03115	0.87116
0.03352	4.96767	1.65054	-0.03130	-3.29017	0.44921	-0.00093	7.58255	0.47125	-0.03105	0.87179
0.03430	4.71164	1.65098	-0.02962	-3.24182	0.43955	-0.00098	7.20012	0.47831	-0.03129	0.87486
0.03511	4.44502	1.65065	-0.02804	-3.19073	0.42615	-0.00103	6.81298	0.48588	-0.03162	0.87851
0.03594	4.20943	1.65121	-0.02662	-3.14616	0.41269	-0.00107	6.46857	0.49314	-0.03186	0.88169
0.03678	3.99597	1.65282	-0.02518	-3.10719	0.40306	-0.00111	6.15533	0.50005	-0.03202	0.88428
0.03765	3.79974	1.65454	-0.02380	-3.07188	0.39730	-0.00115	5.87170	0.50649	-0.03204	0.88570
0.03854	3.61760	1.65560	-0.02265	-3.03843	0.39136	-0.00119	5.61580	0.51253	-0.03170	0.88441
0.03944	3.41546	1.65536	-0.02171	-2.99989	0.38028	-0.00123	5.34481	0.51923	-0.03101	0.88081
0.04037	3.19219	1.65379	-0.02100	-2.95598	0.36499	-0.00126	5.06058	0.52658	-0.03034	0.87736
0.04132	2.99307	1.65180	-0.02069	-2.91573	0.35106	-0.00128	4.81610	0.53324	-0.03015	0.87699
0.04229	2.84491	1.65086	-0.02067	-2.88556	0.34163	-0.00131	4.63632	0.53848	-0.03034	0.87895
0.04329	2.70524	1.65113	-0.02045	-2.85817	0.33498	-0.00134	4.46899	0.54359	-0.03049	0.88043
0.04431	2.54492	1.65206	-0.01981	-2.82785	0.33002	-0.00138	4.28338	0.54940	-0.03037	0.88006
0.04535	2.37141	1.65317	-0.01889	-2.79575	0.32673	-0.00143	4.09032	0.55553	-0.02991	0.87742

0.04642	2.20328	1.65344	-0.01806	-2.76453	0.32364	-0.00148	3.90824	0.56138	-0.02923	0.87317
0.04751	2.05262	1.65205	-0.01768	-2.73531	0.31903	-0.00151	3.74570	0.56667	-0.02859	0.86901
0.04863	1.91715	1.64873	-0.01782	-2.70707	0.31188	-0.00152	3.59948	0.57149	-0.02824	0.86650
0.04977	1.78312	1.64427	-0.01826	-2.67798	0.30280	-0.00153	3.45599	0.57636	-0.02803	0.86489
0.05094	1.62340	1.63922	-0.01863	-2.64386	0.29214	-0.00154	3.28930	0.58229	-0.02766	0.86237
0.05214	1.44675	1.63355	-0.01894	-2.60616	0.27995	-0.00156	3.11291	0.58891	-0.02710	0.85875
0.05337	1.27518	1.62848	-0.01919	-2.56951	0.26748	-0.00157	2.95138	0.59544	-0.02654	0.85515
0.05462	1.12327	1.62537	-0.01939	-2.53801	0.25905	-0.00159	2.81540	0.60131	-0.02627	0.85345
0.05591	0.99104	1.62432	-0.01951	-2.51193	0.25594	-0.00162	2.70217	0.60644	-0.02626	0.85340
0.05722	0.87996	1.62338	-0.01984	-2.48963	0.25172	-0.00165	2.60897	0.61085	-0.02631	0.85376
0.05857	0.80792	1.62140	-0.02071	-2.47361	0.24647	-0.00166	2.54822	0.61366	-0.02646	0.85489
0.05995	0.76063	1.61869	-0.02194	-2.46167	0.24458	-0.00167	2.50994	0.61513	-0.02659	0.85614
0.06136	0.69961	1.61541	-0.02314	-2.44677	0.24412	-0.00169	2.46223	0.61694	-0.02646	0.85597
0.06280	0.60499	1.61127	-0.02416	-2.42516	0.24079	-0.00170	2.38527	0.62028	-0.02616	0.85471
0.06428	0.47491	1.60605	-0.02498	-2.39652	0.23239	-0.00171	2.27519	0.62557	-0.02565	0.85241
0.06579	0.32688	1.59965	-0.02581	-2.36376	0.22001	-0.00171	2.15079	0.63194	-0.02480	0.84799
0.06734	0.18651	1.59225	-0.02692	-2.33154	0.20760	-0.00171	2.03860	0.63777	-0.02367	0.84159
0.06893	0.06959	1.58569	-0.02841	-2.30445	0.19773	-0.00171	1.94827	0.64253	-0.02235	0.83367
0.07055	0.00013	1.58194	-0.03033	-2.28884	0.19140	-0.00170	1.89149	0.64549	-0.02101	0.82539
0.07221	-0.00348	1.57991	-0.03289	-2.28742	0.19102	-0.00168	1.88044	0.64535	-0.02019	0.82041
0.07391	0.02158	1.57744	-0.03585	-2.29113	0.19448	-0.00167	1.89162	0.64342	-0.01997	0.81970
0.07565	0.01967	1.57455	-0.03844	-2.28911	0.19954	-0.00167	1.88872	0.64239	-0.01999	0.82081
0.07743	-0.00929	1.57154	-0.04056	-2.28146	0.20779	-0.00169	1.87337	0.64217	-0.02008	0.82240
0.07925	-0.03945	1.56800	-0.04269	-2.27274	0.21837	-0.00173	1.86230	0.64151	-0.02039	0.82524
0.08111	-0.07475	1.56416	-0.04482	-2.26258	0.22777	-0.00177	1.84883	0.64101	-0.02087	0.82889
0.08302	-0.13979	1.56022	-0.04664	-2.24680	0.23206	-0.00181	1.81239	0.64224	-0.02137	0.83223
0.08498	-0.23089	1.55529	-0.04850	-2.22543	0.22901	-0.00184	1.75318	0.64521	-0.02180	0.83554
0.08697	-0.31221	1.54903	-0.05085	-2.20505	0.21977	-0.00183	1.69490	0.64824	-0.02204	0.83840
0.08902	-0.35908	1.54282	-0.05361	-2.19172	0.20916	-0.00181	1.65573	0.64990	-0.02219	0.84082
0.09112	-0.37398	1.53809	-0.05646	-2.18579	0.20151	-0.00177	1.63877	0.65002	-0.02212	0.84152
0.09326	-0.37370	1.53403	-0.05928	-2.18306	0.19920	-0.00175	1.63596	0.64903	-0.02166	0.83952
0.09545	-0.39011	1.52925	-0.06192	-2.17635	0.20033	-0.00175	1.62565	0.64847	-0.02072	0.83452
0.09770	-0.43437	1.52355	-0.06437	-2.16338	0.20297	-0.00176	1.60280	0.64869	-0.01952	0.82807
0.10000	-0.49424	1.51647	-0.06697	-2.14626	0.20465	-0.00178	1.57466	0.64905	-0.01860	0.82390
0.10235	-0.56322	1.50827	-0.06996	-2.12669	0.20518	-0.00180	1.54046	0.64966	-0.01820	0.82372
0.10476	-0.63702	1.49919	-0.07322	-2.10599	0.20549	-0.00182	1.50053	0.65050	-0.01805	0.82577
0.10723	-0.70273	1.48971	-0.07657	-2.08687	0.20434	-0.00182	1.46414	0.65099	-0.01782	0.82741
0.10975	-0.77004	1.48169	-0.07975	-2.06860	0.19977	-0.00181	1.42661	0.65202	-0.01743	0.82745
0.11233	-0.86435	1.47656	-0.08221	-2.04771	0.19483	-0.00182	1.37439	0.65498	-0.01715	0.82698
0.11498	-0.95855	1.47408	-0.08404	-2.02931	0.19569	-0.00185	1.32648	0.65789	-0.01702	0.82658
0.11768	-1.02847	1.47262	-0.08564	-2.01655	0.20159	-0.00188	1.29450	0.65936	-0.01688	0.82598
0.12045	-1.10580	1.46995	-0.08700	-2.00123	0.20417	-0.00190	1.25520	0.66163	-0.01677	0.82611
0.12328	-1.19491	1.46588	-0.08846	-1.98226	0.20034	-0.00190	1.20710	0.66504	-0.01675	0.82757
0.12619	-1.27029	1.46213	-0.09025	-1.96638	0.19494	-0.00189	1.16781	0.66778	-0.01673	0.82926
0.12916	-1.32598	1.46005	-0.09219	-1.95605	0.19336	-0.00188	1.14241	0.66917	-0.01648	0.82910
0.13219	-1.36946	1.45861	-0.09431	-1.94877	0.19494	-0.00188	1.12616	0.66950	-0.01612	0.82784
0.13531	-1.40482	1.45643	-0.09659	-1.94233	0.19934	-0.00188	1.11758	0.66871	-0.01589	0.82729
0.13849	-1.42546	1.45330	-0.09918	-1.93773	0.20729	-0.00189	1.11938	0.66639	-0.01586	0.82814
0.14175	-1.43443	1.44990	-0.10218	-1.93490	0.21515	-0.00190	1.12772	0.66328	-0.01575	0.82823
0.14508	-1.44237	1.44721	-0.10540	-1.93249	0.21974	-0.00190	1.13756	0.66028	-0.01537	0.82617
0.14850	-1.45113	1.44477	-0.10896	-1.93014	0.22180	-0.00189	1.14878	0.65717	-0.01477	0.82218
0.15199	-1.47500	1.44161	-0.11268	-1.92429	0.22241	-0.00190	1.15316	0.65463	-0.01411	0.81703
0.15557	-1.51190	1.43755	-0.11617	-1.91442	0.22250	-0.00191	1.15119	0.65279	-0.01374	0.81301
0.15923	-1.55796	1.43435	-0.11909	-1.90288	0.22579	-0.00195	1.14397	0.65178	-0.01364	0.81104
0.16298	-1.61562	1.43313	-0.12132	-1.89103	0.23429	-0.00200	1.12764	0.65210	-0.01375	0.81116
0.16681	-1.66803	1.43349	-0.12327	-1.88232	0.24477	-0.00204	1.10936	0.65288	-0.01412	0.81320
0.17074	-1.69233	1.43478	-0.12546	-1.88048	0.25530	-0.00206	1.10385	0.65232	-0.01482	0.81750
0.17475	-1.66599	1.43701	-0.12811	-1.88926	0.26695	-0.00206	1.12831	0.64849	-0.01579	0.82362
0.17887	-1.60112	1.43913	-0.13131	-1.90520	0.28016	-0.00205	1.18014	0.64169	-0.01665	0.82914
0.18307	-1.56020	1.44019	-0.13465	-1.91568	0.29188	-0.00204	1.22116	0.63603	-0.01705	0.83239
0.18738	-1.58039	1.43920	-0.13784	-1.91281	0.29812	-0.00205	1.22503	0.63389	-0.01702	0.83355
0.19179	-1.64049	1.43563	-0.14104	-1.89987	0.29971	-0.00207	1.20564	0.63369	-0.01687	0.83384
0.19631	-1.69118	1.43087	-0.14460	-1.88785	0.30254	-0.00208	1.19377	0.63232	-0.01656	0.83285
0.20092	-1.70804	1.42776	-0.14832	-1.88412	0.30896	-0.00209	1.20422	0.62878	-0.01597	0.83023
0.20565	-1.72968	1.42638	-0.15172	-1.88072	0.31485	-0.00210	1.21121	0.62605	-0.01537	0.82779
0.21049	-1.79783	1.42486	-0.15481	-1.86755	0.31516	-0.00213	1.18691	0.62680	-0.01485	0.82617
0.21544	-1.89229	1.42341	-0.15776	-1.84923	0.31245	-0.00215	1.14703	0.62938	-0.01442	0.82498
0.22051	-1.98002	1.42190	-0.16081	-1.83255	0.30932	-0.00217	1.11215	0.63145	-0.01413	0.82462
0.22570	-2.04339	1.41986	-0.16415	-1.82009	0.30410	-0.00216	1.09151	0.63192	-0.01409	0.82585
0.23101	-2.11444	1.41764	-0.16732	-1.80507	0.29449	-0.00214	1.06732	0.63310	-0.01405	0.82727
0.23645	-2.22615	1.41569	-0.16985	-1.78145	0.28095	-0.00213	1.01995	0.63750	-0.01360	0.82654
0.24201	-2.33164	1.41507	-0.17201	-1.76041	0.27044	-0.00213	0.97519	0.64207	-0.01267	0.82305
0.24771	-2.41918	1.41484	-0.17442	-1.74407	0.26127	-0.00213	0.93831	0.64570	-0.01131	0.81697
0.25354	-2.49517	1.41401	-0.17748	-1.73030	0.24951	-0.00210	0.90741	0.64830	-0.00984	0.81010
0.25950	-2.54894	1.41375	-0.18093	-1.72223	0.24133	-0.00207	0.89124	0.64877	-0.00857	0.80426
0.26561	-2.60381	1.41329	-0.18456	-1.71412	0.23737	-0.00204	0.87646	0.64886	-0.00738	0.79845
0.27186	-2.66050	1.41049	-0.18876	-1.70320	0.23375	-0.00202	0.86103	0.64857	-0.00595	0.79084
0.27826	-2.68256	1.40666	-0.19368	-1.69754	0.23252	-0.00199	0.86776	0.64479	-0.00427	0.78133
0.28480	-2.65790	1.40491	-0.19880	-1.70259	0.24067	-0.00198	0.90861	0.63632	-0.00280	0.77269
0.29150	-2.61865	1.40588	-0.20341	-1.71310	0.25955	-0.00201	0.96562	0.62618	-0.00204	0.76877
0.29836	-2.61217	1.40820	-0.20717	-1.71865	0.28301	-0.00207	1.00524	0.61877	-0.00212	0.77084

0.30539	-2.64854	1.41148	-0.21024	-1.71701	0.30527	-0.00214	1.01597	0.61531	-0.00253	0.77544
0.31257	-2.70739	1.41553	-0.21301	-1.71210	0.32064	-0.00219	1.00771	0.61456	-0.00299	0.77996
0.31993	-2.78358	1.41850	-0.21595	-1.70311	0.32401	-0.00221	0.98365	0.61587	-0.00368	0.78521
0.32745	-2.87953	1.41997	-0.21919	-1.68861	0.31732	-0.00220	0.94635	0.61891	-0.00457	0.79168
0.33517	-2.97231	1.42158	-0.22271	-1.67438	0.30924	-0.00219	0.91511	0.62145	-0.00546	0.79871
0.34304	-3.04047	1.42394	-0.22648	-1.66560	0.30682	-0.00220	0.90408	0.62130	-0.00597	0.80383
0.35112	-3.09559	1.42702	-0.23032	-1.66045	0.31190	-0.00223	0.90405	0.61944	-0.00588	0.80505
0.35938	-3.15933	1.43106	-0.23398	-1.65520	0.32200	-0.00227	0.89744	0.61838	-0.00533	0.80258
0.36784	-3.22420	1.43541	-0.23768	-1.65065	0.33305	-0.00231	0.88766	0.61768	-0.00458	0.79842
0.37649	-3.26468	1.43833	-0.24186	-1.64978	0.34192	-0.00233	0.89294	0.61451	-0.00359	0.79330
0.38536	-3.27465	1.43944	-0.24668	-1.65347	0.34782	-0.00231	0.92031	0.60781	-0.00252	0.78852
0.39442	-3.26558	1.44045	-0.25188	-1.66162	0.35317	-0.00228	0.96202	0.59921	-0.00216	0.78851
0.40370	-3.26820	1.44198	-0.25705	-1.66872	0.35727	-0.00224	0.99465	0.59209	-0.00288	0.79510
0.41321	-3.31194	1.44396	-0.26176	-1.66815	0.35795	-0.00221	0.99991	0.58863	-0.00405	0.80424
0.42292	-3.39377	1.44662	-0.26592	-1.65989	0.35429	-0.00220	0.98369	0.58821	-0.00489	0.81107
0.43288	-3.49757	1.44930	-0.26982	-1.64597	0.34260	-0.00218	0.95695	0.58958	-0.00500	0.81317
0.44307	-3.61204	1.45101	-0.27382	-1.62776	0.32224	-0.00215	0.92502	0.59183	-0.00470	0.81250
0.45349	-3.73269	1.45201	-0.27803	-1.60722	0.30038	-0.00212	0.88918	0.59449	-0.00458	0.81331
0.46417	-3.85775	1.45320	-0.28234	-1.58650	0.28579	-0.00212	0.85052	0.59724	-0.00484	0.81726
0.47508	-3.98010	1.45427	-0.28676	-1.56724	0.27945	-0.00214	0.81580	0.59878	-0.00504	0.82166
0.48626	-4.09270	1.45428	-0.29154	-1.54989	0.27518	-0.00215	0.79047	0.59811	-0.00467	0.82289
0.49771	-4.19330	1.45353	-0.29669	-1.53466	0.26892	-0.00215	0.77445	0.59567	-0.00382	0.82113
0.50942	-4.27439	1.45366	-0.30199	-1.52426	0.26424	-0.00214	0.77233	0.59148	-0.00279	0.81818
0.52140	-4.33083	1.45614	-0.30723	-1.52135	0.26660	-0.00214	0.78895	0.58517	-0.00183	0.81549
0.53367	-4.36843	1.46080	-0.31242	-1.52501	0.27587	-0.00214	0.82248	0.57692	-0.00105	0.81392
0.54624	-4.40130	1.46652	-0.31766	-1.53121	0.28809	-0.00213	0.86287	0.56807	-0.00049	0.81402
0.55910	-4.44447	1.47259	-0.32283	-1.53569	0.30041	-0.00213	0.89519	0.56074	-0.00034	0.81743
0.57225	-4.51484	1.47836	-0.32781	-1.53409	0.30873	-0.00213	0.90221	0.55694	-0.00063	0.82380
0.58569	-4.62275	1.48295	-0.33265	-1.52390	0.31040	-0.00214	0.87775	0.55684	-0.00089	0.82952
0.59948	-4.76179	1.48617	-0.33757	-1.50669	0.30704	-0.00214	0.83391	0.55858	-0.00066	0.83135
0.61357	-4.90697	1.48917	-0.34245	-1.48850	0.30412	-0.00215	0.79414	0.55947	0.00012	0.82962
0.62802	-5.03718	1.49281	-0.34729	-1.47379	0.30520	-0.00217	0.77375	0.55767	0.00107	0.82748
0.64280	-5.14092	1.49732	-0.35221	-1.46462	0.31115	-0.00219	0.77796	0.55254	0.00180	0.82746
0.65794	-5.21797	1.50243	-0.35747	-1.46081	0.31998	-0.00221	0.80447	0.54453	0.00224	0.82904
0.67340	-5.27990	1.50762	-0.36298	-1.45969	0.32801	-0.00223	0.84330	0.53523	0.00248	0.83103
0.68927	-5.34503	1.51289	-0.36831	-1.45786	0.33354	-0.00224	0.88005	0.52668	0.00260	0.83323
0.70547	-5.42904	1.51887	-0.37306	-1.45292	0.33804	-0.00227	0.90054	0.52075	0.00286	0.83438
0.72207	-5.53494	1.52607	-0.37730	-1.44506	0.34552	-0.00231	0.90118	0.51767	0.00344	0.83358
0.73910	-5.64975	1.53440	-0.38131	-1.43713	0.36104	-0.00238	0.89060	0.51617	0.00418	0.83132
0.75649	-5.75754	1.54363	-0.38534	-1.43210	0.38650	-0.00248	0.88052	0.51476	0.00490	0.82834
0.77429	-5.84872	1.55341	-0.38947	-1.43128	0.41929	-0.00259	0.88074	0.51219	0.00555	0.82470
0.79246	-5.92373	1.56306	-0.39359	-1.43338	0.45249	-0.00269	0.89356	0.50818	0.00604	0.82098
0.81116	-5.99676	1.57236	-0.39753	-1.43505	0.47903	-0.00276	0.91007	0.50388	0.00627	0.81820
0.83022	-6.09056	1.58079	-0.40122	-1.43103	0.49167	-0.00280	0.91274	0.50118	0.00641	0.81520
0.84976	-6.21791	1.58797	-0.40483	-1.41859	0.48748	-0.00281	0.89515	0.50033	0.00685	0.80949
0.86972	-6.36427	1.59400	-0.40853	-1.40111	0.47011	-0.00279	0.87011	0.49969	0.00764	0.80148
0.89023	-6.50541	1.59975	-0.41243	-1.38488	0.44864	-0.00275	0.85590	0.49713	0.00850	0.79403
0.91116	-6.63002	1.60572	-0.41646	-1.37319	0.43160	-0.00270	0.85885	0.49192	0.00921	0.78909
0.93257	-6.74415	1.61184	-0.42058	-1.36476	0.42056	-0.00266	0.87399	0.48478	0.00970	0.78689
0.95456	-6.85844	1.61826	-0.42466	-1.35731	0.41277	-0.00263	0.89173	0.47725	0.01002	0.78680
0.97704	-6.97657	1.62569	-0.42842	-1.35065	0.40729	-0.00259	0.90555	0.47062	0.01027	0.78817
1.00000	-7.09759	1.63438	-0.43173	-1.34504	0.40471	-0.00257	0.91375	0.46533	0.01035	0.79127
1.02354	-7.21591	1.64406	-0.43477	-1.34097	0.40557	-0.00255	0.92073	0.46082	0.01018	0.79643
1.04767	-7.32620	1.65442	-0.43772	-1.33894	0.41000	-0.00255	0.93154	0.45640	0.00977	0.80299
1.07227	-7.42893	1.66550	-0.44046	-1.33864	0.41784	-0.00256	0.94683	0.45200	0.00920	0.81041
1.09745	-7.52673	1.67761	-0.44289	-1.33986	0.42924	-0.00258	0.96608	0.44774	0.00866	0.81747
1.12334	-7.62081	1.69087	-0.44507	-1.34250	0.44315	-0.00260	0.98933	0.44361	0.00845	0.82255
1.14982	-7.71147	1.70487	-0.44697	-1.34614	0.45744	-0.00262	1.01599	0.43962	0.00857	0.82571
1.17675	-7.79522	1.71888	-0.44868	-1.35084	0.47119	-0.00264	1.04966	0.43512	0.00886	0.82795
1.20453	-7.86877	1.73232	-0.45049	-1.35694	0.48487	-0.00265	1.09664	0.42913	0.00921	0.82966
1.23289	-7.93513	1.74450	-0.45262	-1.36309	0.49811	-0.00266	1.15276	0.42196	0.00959	0.83098
1.26183	-8.00680	1.75529	-0.45511	-1.36657	0.50962	-0.00266	1.20453	0.41483	0.01011	0.83136
1.29149	-8.09139	1.76495	-0.45793	-1.36610	0.51904	-0.00268	1.24514	0.40828	0.01086	0.83028
1.32188	-8.18738	1.77400	-0.46090	-1.36257	0.52799	-0.00270	1.27685	0.40223	0.01170	0.82855
1.35300	-8.28831	1.78319	-0.46373	-1.35833	0.53892	-0.00273	1.30593	0.39639	0.01257	0.82660
1.38485	-8.38913	1.79280	-0.46625	-1.35496	0.55192	-0.00277	1.33681	0.39047	0.01347	0.82445
1.41743	-8.48905	1.80251	-0.46838	-1.35224	0.56445	-0.00280	1.37006	0.38433	0.01425	0.82323
1.45075	-8.59405	1.81186	-0.47012	-1.34820	0.57274	-0.00283	1.39795	0.37846	0.01473	0.82441
1.48500	-8.70842	1.82097	-0.47156	-1.34202	0.57547	-0.00283	1.41523	0.37324	0.01489	0.82841
1.51999	-8.82207	1.83028	-0.47281	-1.33642	0.57668	-0.00284	1.43437	0.36787	0.01487	0.83408
1.55569	-8.92376	1.84012	-0.47408	-1.33424	0.58155	-0.00284	1.47208	0.36128	0.01484	0.84012
1.59236	-9.01234	1.85064	-0.47539	-1.33591	0.59288	-0.00287	1.53231	0.35338	0.01480	0.84659
1.62973	-9.09170	1.86192	-0.47661	-1.34066	0.61064	-0.00291	1.60804	0.34501	0.01471	0.85401
1.66806	-9.17192	1.87425	-0.47753	-1.34697	0.63292	-0.00296	1.68664	0.33713	0.01461	0.86195
1.70736	-9.26147	1.88790	-0.47803	-1.35369	0.65715	-0.00301	1.75759	0.33034	0.01479	0.86834
1.74764	-9.36474	1.90265	-0.47813	-1.35981	0.68098	-0.00307	1.81818	0.32443	0.01546	0.87143
1.78859	-9.48074	1.91781	-0.47783	-1.36460	0.70219	-0.00311	1.87257	0.31886	0.01654	0.87152
1.83083	-9.60663	1.93301	-0.47712	-1.36815	0.71937	-0.00315	1.93044	0.31298	0.01776	0.87066
1.87371	-9.73550	1.94749	-0.47603	-1.37060	0.73128	-0.00316	1.99667	0.30657	0.01872	0.87147
1.91791	-9.86732	1.96115	-0.47459	-1.37182	0.73793	-0.00316	2.07313	0.29953	0.01922	0.87578
1.96309	-9.99646	1.97387	-0.47289	-1.37272	0.74128	-0.00315	2.16554	0.29167	0.01923	0.88360

2.00924	-10.11903	1.98593	-0.47099	-1.37455	0.74411	-0.00314	2.28052	0.28288	0.01892	0.89356
2.05634	-10.23520	1.99775	-0.46891	-1.37780	0.74810	-0.00312	2.41711	0.27348	0.01851	0.90396
2.10482	-10.35127	2.00973	-0.46661	-1.38174	0.75313	-0.00311	2.56442	0.26411	0.01815	0.91363
2.15424	-10.47384	2.02187	-0.46409	-1.38473	0.75785	-0.00310	2.70306	0.25555	0.01787	0.92194
2.20507	-10.61094	2.03428	-0.46132	-1.38519	0.76119	-0.00309	2.81819	0.24814	0.01770	0.92877
2.25683	-10.76396	2.04684	-0.45833	-1.38250	0.76347	-0.00309	2.90224	0.24193	0.01765	0.93366
2.31000	-10.93365	2.05981	-0.45506	-1.37699	0.76568	-0.00310	2.95550	0.23678	0.01780	0.93601
2.36463	-11.11751	2.07343	-0.45148	-1.36933	0.76815	-0.00311	2.97763	0.23286	0.01809	0.93602
2.42014	-11.31078	2.08767	-0.44769	-1.36006	0.77040	-0.00313	2.96669	0.23052	0.01840	0.93498
2.47709	-11.51303	2.10260	-0.44377	-1.34916	0.77160	-0.00315	2.92226	0.22990	0.01857	0.93444
2.53550	-11.72072	2.11805	-0.43984	-1.33690	0.77128	-0.00317	2.85046	0.23082	0.01855	0.93543
2.59471	-11.92663	2.13371	-0.43608	-1.32417	0.76960	-0.00318	2.76349	0.23286	0.01837	0.93830
2.65604	-12.13188	2.14981	-0.43251	-1.31134	0.76645	-0.00320	2.66818	0.23569	0.01807	0.94304
2.71887	-12.33233	2.16615	-0.42924	-1.29895	0.76207	-0.00321	2.57038	0.23906	0.01771	0.94919
2.78242	-12.52385	2.18254	-0.42630	-1.28763	0.75726	-0.00321	2.47630	0.24270	0.01739	0.95609
2.84819	-12.70888	2.19933	-0.42361	-1.27764	0.75296	-0.00320	2.38867	0.24648	0.01713	0.96361
2.91545	-12.88438	2.21634	-0.42122	-1.26925	0.74973	-0.00320	2.30921	0.25031	0.01692	0.97177
2.98329	-13.04921	2.23326	-0.41910	-1.26232	0.74768	-0.00320	2.23700	0.25417	0.01674	0.98051
3.05344	-13.20759	2.25043	-0.41725	-1.25644	0.74648	-0.00319	2.16858	0.25817	0.01655	0.99010
3.12598	-13.36065	2.26778	-0.41564	-1.25138	0.74590	-0.00318	2.10234	0.26236	0.01632	1.00045
3.19898	-13.50349	2.28471	-0.41435	-1.24723	0.74579	-0.00317	2.04123	0.26648	0.01605	1.01107
3.27439	-13.64068	2.30163	-0.41332	-1.24379	0.74602	-0.00317	1.98388	0.27057	0.01574	1.02182
3.35121	-13.76912	2.31814	-0.41258	-1.24124	0.74673	-0.00315	1.93388	0.27430	0.01539	1.03225
3.43053	-13.89145	2.33450	-0.41206	-1.23952	0.74781	-0.00314	1.89103	0.27761	0.01503	1.04241
3.51124	-14.00508	2.35034	-0.41178	-1.23872	0.74915	-0.00313	1.85836	0.28023	0.01464	1.05220
3.59324	-14.11224	2.36572	-0.41161	-1.23870	0.75060	-0.00311	1.83554	0.28210	0.01427	1.06155
3.67782	-14.21250	2.38068	-0.41163	-1.23953	0.75205	-0.00309	1.82448	0.28302	0.01388	1.07105
3.76506	-14.30961	2.39536	-0.41152	-1.24125	0.75373	-0.00307	1.82779	0.28279	0.01351	1.08037
3.85356	-14.39746	2.40930	-0.41164	-1.24380	0.75524	-0.00304	1.84506	0.28139	0.01312	1.08997
3.94477	-14.48513	2.42281	-0.41141	-1.24700	0.75738	-0.00302	1.87816	0.27871	0.01277	1.09909
4.03714	-14.56500	2.43565	-0.41137	-1.25084	0.75926	-0.00298	1.92478	0.27499	0.01242	1.10810
4.13223	-14.64495	2.44795	-0.41096	-1.25515	0.76158	-0.00295	1.98590	0.27023	0.01210	1.11658
4.23012	-14.72496	2.46001	-0.41025	-1.25999	0.76411	-0.00292	2.06273	0.26445	0.01186	1.12410
4.32900	-14.79924	2.47131	-0.40960	-1.26508	0.76601	-0.00288	2.14772	0.25828	0.01168	1.13101
4.43066	-14.88244	2.48242	-0.40810	-1.27019	0.76901	-0.00284	2.24112	0.25177	0.01160	1.13654
4.53515	-14.96212	2.49332	-0.40666	-1.27566	0.77158	-0.00280	2.34457	0.24487	0.01164	1.14142
4.64253	-15.04400	2.50387	-0.40481	-1.28127	0.77502	-0.00277	2.45151	0.23820	0.01176	1.14577
4.75059	-15.13474	2.51445	-0.40204	-1.28698	0.78062	-0.00274	2.56116	0.23184	0.01202	1.14876
4.86145	-15.21966	2.52490	-0.39946	-1.29307	0.78597	-0.00271	2.67825	0.22543	0.01242	1.15138
4.97760	-15.31119	2.53518	-0.39620	-1.29947	0.79346	-0.00269	2.79627	0.21952	0.01286	1.15364
5.09424	-15.40973	2.54551	-0.39198	-1.30642	0.80375	-0.00268	2.91753	0.21405	0.01340	1.15473
5.21376	-15.50079	2.55596	-0.38797	-1.31399	0.81368	-0.00267	3.04882	0.20847	0.01405	1.15592
5.33618	-15.59635	2.56579	-0.38351	-1.32108	0.82453	-0.00267	3.17071	0.20367	0.01461	1.15745
5.46150	-15.70605	2.57556	-0.37785	-1.32777	0.83753	-0.00267	3.28137	0.19974	0.01516	1.15852
5.58971	-15.81168	2.58587	-0.37230	-1.33473	0.84989	-0.00267	3.39705	0.19579	0.01575	1.16006
5.72082	-15.91544	2.59578	-0.36695	-1.34112	0.86145	-0.00268	3.50221	0.19242	0.01621	1.16262
5.85823	-16.03863	2.60496	-0.36029	-1.34628	0.87494	-0.00269	3.57684	0.19057	0.01650	1.16524
5.99520	-16.16197	2.61472	-0.35343	-1.35139	0.88810	-0.00270	3.64549	0.18909	0.01671	1.16826
6.13497	-16.27951	2.62527	-0.34712	-1.35653	0.89961	-0.00271	3.71395	0.18763	0.01682	1.17239
6.28141	-16.40494	2.63434	-0.34061	-1.35995	0.91067	-0.00273	3.75211	0.18721	0.01673	1.17712
6.42674	-16.53972	2.64213	-0.33331	-1.36171	0.92185	-0.00275	3.75812	0.18793	0.01646	1.18175
6.57895	-16.67923	2.65174	-0.32583	-1.36361	0.93218	-0.00276	3.76233	0.18876	0.01608	1.18730
6.73401	-16.81464	2.66266	-0.31904	-1.36550	0.94069	-0.00277	3.76685	0.18949	0.01565	1.19376
6.89180	-16.94869	2.67037	-0.31244	-1.36523	0.94746	-0.00279	3.74577	0.19086	0.01517	1.20019
7.05716	-17.09527	2.67643	-0.30490	-1.36280	0.95319	-0.00280	3.69370	0.19321	0.01453	1.20692
7.22022	-17.24014	2.68428	-0.29765	-1.36047	0.95739	-0.00282	3.64251	0.19552	0.01383	1.21404
7.39098	-17.38877	2.69480	-0.29070	-1.35862	0.96053	-0.00282	3.59743	0.19761	0.01309	1.22173
7.56430	-17.52407	2.70277	-0.28459	-1.35643	0.96272	-0.00282	3.55511	0.19945	0.01243	1.22889
7.73994	-17.65046	2.70506	-0.27826	-1.35226	0.96368	-0.00284	3.49402	0.20179	0.01173	1.23539
7.92393	-17.78539	2.70920	-0.27153	-1.34802	0.96380	-0.00284	3.42983	0.20432	0.01093	1.24218
8.11030	-17.92237	2.71563	-0.26493	-1.34438	0.96350	-0.00284	3.37204	0.20665	0.01012	1.24885
8.29876	-18.06217	2.72556	-0.25870	-1.34190	0.96339	-0.00284	3.32680	0.20859	0.00935	1.25522
8.49618	-18.17846	2.72961	-0.25347	-1.33915	0.96313	-0.00284	3.28558	0.21030	0.00874	1.26079
8.69565	-18.27090	2.72647	-0.24866	-1.33533	0.96191	-0.00284	3.23694	0.21222	0.00816	1.26602
8.90472	-18.37425	2.72651	-0.24342	-1.33208	0.96064	-0.00285	3.19119	0.21414	0.00749	1.27168
9.11577	-18.47660	2.72786	-0.23833	-1.32952	0.95955	-0.00284	3.15203	0.21587	0.00686	1.27731
9.32836	-18.59578	2.73470	-0.23269	-1.32788	0.95902	-0.00284	3.11829	0.21752	0.00621	1.28313
9.54198	-18.70024	2.73992	-0.22812	-1.32674	0.95880	-0.00283	3.09391	0.21875	0.00570	1.28855
9.76563	-18.74679	2.73162	-0.22607	-1.32501	0.95756	-0.00283	3.07515	0.21958	0.00538	1.29377
10.00000	-18.78685	2.72185	-0.22424	-1.32339	0.95599	-0.00283	3.05808	0.22034	0.00502	1.29982