

GEORGIA INSTITUTE OF TECHNOLOGY
Engineering Experiment Station

PROJECT INITIATION

Date: 10/11/71

Project Title: Radar Experiment Design

Project No.: A-3367

Project Director: Mr. W. K. Rivers

Sponsor: Naval Air Development Center; Warminster, Pa. 18974

Effective September 15, 1971 Estimated to run until: January 15, 1972

Type Agreement: Contract No. N62269-72-C-0133 Amount: \$ 12,200

Reports Required: Monthly Letter Reports

Sponsor Contact Person: Administrative Matters
Mr. R. J. Whitcomb
CMR-RR
Campus

Defense Priority Rating: DO-01 under DMS Reg. 1.

Assigned to Electronics (Sensor Systems) Division

COPIES TO:

- ☐ Project Director
- ☐ Director
- ☐ Associate Director
- ☐ Assistant Director(s)
- ☐ Division Chiefs
- ☐ Branch Head
- ☐ General Office Services
- ☐ Engineering Design Services

- ☐ Photographic Laboratory
- ☐ Research Security Officer
- ☐ Accounting
- ☐ Purchasing
- ☐ Report Section
- ☒ Library
- ☐ Rich Electronic Computer Center
- ☐ _____

GEORGIA INSTITUTE OF TECHNOLOGY
Engineering Experiment Station

PROJECT TERMINATION

Date March 27, 1973

PROJECT TITLE: Radar Experiment Design

PROJECT NO: A-1367

PROJECT DIRECTOR: Mr. F. B. Eyer

SPONSOR: Naval Air Development Center; Warminster, Pa. 18974

TERMINATION EFFECTIVE: December 15, 1972 (Contract Expiration)

CHARGES SHOULD CLEAR ACCOUNTING BY: December 31, 1972

Contract Closeout Items: Final Invoice & Closing Documents
Government Inventory of Property (or Certificate)
Final Report of Inventions

SENSOR SYSTEMS DIVISION

COPIES TO:

Project Director
Director
Associate Director
Assistant Directors
Division Chief
Branch Head
Accounting
Engineering Design Services

General Office Services
Photographic Laboratory
Purchasing
Report Section
Library
Security
Rich Electronic Computer Center



GEORGIA INSTITUTE OF TECHNOLOGY

EXPERIMENT STATION 225 North Avenue, Northwest Atlanta, Georgia 30332

29 November 1971



Mr. R. J. Whitcomb
Resident Representative
Office of Naval Research
EES Building, Georgia Tech
Atlanta, Georgia 30332

Subject: Administrative Letter Report No. 1
Contract N62269-72-C-0133

Dear Sir:

This letter covers activities on the subject contract for the period 15 September through 14 October 1971. During this period, discussions were held at NADC on the design of field strength experiments adjunct to the LAMPS tests. Experiment design data and computer program design aids were delivered to the Test Director on curved-earth propagation and on radar sea return. Design data were delivered on an experiment for the documentation of sea state photographically.

W. Rivers of Georgia Tech arrived at the Molokai, Hawaii, test site on 9 October and participated in the calibration of test instrumentation, design of data acquisition procedures and data reduction formats, and the acquisition and interpretation of data.

Respectfully submitted,

Wayne Rivers
Principal Research Physicist

WKR/cm



EXPERIMENT STATION 225 North Avenue, Northwest Atlanta, Georgia 30332

29 November 1971

Mr. R. J. Whitcomb
Resident Representative
Office of Naval Research
EES Building, Georgia Tech
Atlanta, Georgia 30332



Subject: Administrative Letter Report No. 2
Contract N62269-72-C-0133

Dear Sir:

This letter covers activities on the subject contract for the period 15 October through 14 November 1971. Participation in the LAMPS tests was continued by W. Rivers of Georgia Tech through 10 November and after 1 November by F. Dyer.

Assistance in the tests was rendered in both the primary radar experiments as well as the adjunct field strength measurements. Measurements were made of radar parameters and environmental conditions necessary for the documentation of the tests. Verbal reporting and field notes were offered to the test director and his representatives on all activities.

Respectfully submitted,

Wayne Rivers
Principal Research Physicist

WKR/cm

A-1267



GEORGIA INSTITUTE OF TECHNOLOGY
EXPERIMENT STATION 225 North Avenue, Northwest Atlanta, Georgia 30332

17 December 1971

Mr. R. J. Whitcomb
Resident Representative
Office of Naval Research
EES Building, Georgia Tech
Atlanta, Georgia 30332



Subject: Administrative Letter Report No. 3
Contract N62269-72-C-0133

Dear Sir:

This letter covers activities on the subject contract for the period 15 November through 14 December 1971. During this period film which documented sea conditions and experimental setups were developed and printed. Selected prints were forwarded to NADC for their use. The remaining negative material, which represents raw data, are being retained pending preliminary reduction to numerical form.

No travel was initiated on the contract. The NADC field operation terminated on 19 November, and F. B. Dyer returned to Georgia Tech at that time. Travel to NADC is anticipated in order to review data in a more advanced state of organization. In anticipation of expected delay in the data reduction process beyond the scheduled termination date of the subject contract, its extension in time will be requested in separate correspondence to allow participation in data interpretation discussions.

Yours very truly, *W*

Wayne Rivers
Principal Research Physicist

WKR/cm



GEORGIA INSTITUTE OF TECHNOLOGY

EXPERIMENT STATION 225 North Avenue, Northwest Atlanta, Georgia 30332

A-1367

21 February 1972

Mr. R. J. Whitcomb
Resident Representative
Office of Naval Research
EES Building, Georgia Tech
Atlanta, Georgia 30332

Subject: Administrative Letter Reports Nos. 4 and 5
Contract N62269-72-C-0133



Dear Sir:

This letter covers activities on the subject contract for the periods 15 December 1971 through 14 January 1972 and 15 January through 14 February 1972.

On 22 December 1971 a visit was made in conjunction with other travel to Naval Air Development Center to discuss data reduction and analysis of data obtained previously at Molokai.

In late January 1972 partially reduced data and calibration calculations were forwarded to Georgia Tech for review, which indicated problems in closure of measurements with predictions. This material was reviewed and comment was forwarded to NADC in separate correspondence.

Respectfully submitted,

Wayne K. Rivers
Principal Research Physicist

Approved:

R. M. Goodman, Jr.
Head, Sensor Systems Branch

WKR/bbw

A-1367



GEORGIA INSTITUTE OF TECHNOLOGY
EXPERIMENT STATION 225 North Avenue, Northwest Atlanta, Georgia 30332

13 July 1972



Mr. R. J. Whitcomb
Resident Representative
Office of Naval Research
EES Building, Georgia Tech
Atlanta, Georgia 30332

Subject: Administrative Letter Report on
Contract N62269-72-C-0133

Dear Sir:

This letter reports activities on the subject contract for the period 15 February through 14 July 1972. No effort has been requested by the sponsor on this program during the period, and none was expended.

Respectfully submitted,

Wayne Rivers
Principal Research Physicist

Approved:

R. M. Goodman
Chief, Sensor Systems Division



GEORGIA INSTITUTE OF TECHNOLOGY
EXPERIMENT STATION 225 North Avenue, Northwest Atlanta, Georgia 30332

18 August 1972



Mr. R. J. Whitcomb
Resident Representative
Office of Naval Research
EES Building, Georgia Tech
Atlanta, Georgia 30332

Subject: Administrative Letter Report on
Contract N62269-72-C-0133

Dear Sir:

This letter reports activities on the subject contract for the period 14 July 1972 through 15 August 1972. No effort has been requested by the sponsor on this program during the period, and none was expended. Mr. Otto Kessler has indicated that he would like to have Georgia Tech continue under contract in order that Georgia Tech may provide technical input for use in the report which is currently in preparation at NADC. Mr. Kessler is exploring the possibility of additional funding as well as a time extension to the subject contract.

Respectfully submitted,

F. B. Dyer *U*
Senior Research Physicist

Approved:

R. M. Goodman *U*
Chief, Sensor Systems Division



GEORGIA INSTITUTE OF TECHNOLOGY
EXPERIMENT STATION 225 North Avenue, Northwest · Atlanta, Georgia 30332

7 November 1972

Mr. R. J. Whitcomb
Resident Representative
Office of Naval Research
EES Building, Georgia Tech
Atlanta, Georgia 30332



Subject: Administrative Letter Report on
Contract N62269-72-C-0133

Dear Sir:

This letter reports activities on the subject contract for the period 15 August 1972 through 15 September 1972. No effort has been requested by the sponsor on this program during the period, and none was expended.

Respectfully submitted,

F. B. Dyer ^U
Senior Research Physicist

Approved:

R. M. Goodman, Jr.
Chief, Sensor Systems Division



GEORGIA INSTITUTE OF TECHNOLOGY
EXPERIMENT STATION 225 North Avenue, Northwest - Atlanta, Georgia 30332

7 November 1972



Mr. R. J. Whitcomb
Resident Representative
Office of Naval Research
EES Building, Georgia Tech
Atlanta, Georgia 30332

Subject: Administrative Letter Report on
Contract N62269-72-C-0133

Dear Sir:

This letter reports activities on the subject contract for the period 15 September 1972 through 15 November 1972. No effort has been requested by the sponsor on this program during the period, and none was expended. A no-cost extension to the subject contract has been received which extends the performance period until 30 December 1972.

Respectfully submitted,

F. B. Dyer *U*
Senior Research Physicist

Approved:

R. M. Goodman, Jr.
Chief, Sensor Systems Division



GEORGIA INSTITUTE OF TECHNOLOGY
EXPERIMENT STATION 225 North Avenue, Northwest - Atlanta, Georgia 30332

11 January 1973

Mr. R. J. Whitcomb
Resident Representative
Office of Naval Research
EES Building, Georgia Tech
Atlanta, Georgia 30332



Subject: Administrative Letter Report on
Contract N62269-72-C-0133

Dear Sir:

This letter reports activities on the subject contract for the period 15 November 1972 through 30 December 1972. The efforts during this period were directed to a review of certain technical material included in the NADC report on the radar tests conducted at Molokai in October and November 1971. This review was requested by Mr. Otto Kessler of NADC and is the final task required. The results of the review, including recommendations, have been reported to Mr. Kessler. Since no final technical report is required, this letter constitutes the final report on the subject contract.

Respectfully submitted,

F. B. Dyer^U
Senior Research Physicist

Approved by:

R. M. Goodman, Jr. -
Chief, Sensor Systems Division