

# REVISED HYDROGEOLOGIC FRAMEWORK OF THE FLORIDAN AQUIFER SYSTEM IN FLORIDA, AND PARTS OF GEORGIA, ALABAMA, AND SOUTH CAROLINA

Lester J. Williams

---

AUTHORS: U.S. Geological Survey, 3039 Amwiler Rd. , Atlanta, Georgia 30360

REFERENCE: *Proceedings of the 2013 Georgia Water Resources Conference*, held April 10–11, 2013, at the University of Georgia

---

**Abstract.** The hydrogeologic framework for the Floridan aquifer system has been revised throughout its extent in Florida and parts of Georgia, Alabama, and South Carolina. The updated framework generally conforms to the original framework established by the U.S. Geological Survey in the 1980s except for adjustments made to the internal boundaries of the Upper and Lower Floridan aquifers and the individual permeable zones that comprise these aquifers. The revised boundaries of the Floridan aquifer system were mapped by taking into account results from local studies and regional correlations of geologic and hydrogeologic units. Additional high and low permeability zones have been incorporated into the framework to allow for finer discretization of permeability variations in the two regional aquifers or within the same aquifer of a local or subregional area. These additional units can be used to progressively divide the system into discrete hydrologic units that may be important for assessing groundwater and surface water interaction, saltwater intrusion, and offshore movement of groundwater. The extent and altitude of the freshwater/saltwater interface in the aquifer system has been mapped to define the freshwater part of the flow system that will be a focus for future groundwater availability assessments.