

Dorothy Sifuentes



- Position
 - ▣ **Supervisory Hydrologist, USGS**
- Research Interests
 - ▣ **Groundwater flow and solute transport**
 - ▣ **Coastal aquifers and saltwater intrusion**
- Why Florida...
 - ▣ **Unique hydrologic environment makes it ideal for studying effects of changes in hydrologic controls and groundwater management activities**

USGS Hydrologic Studies in South Florida

- **Hydrogeology**
 - ▣ Biscayne aquifer hydrogeologic framework
 - ▣ Floridan aquifer system, stratigraphic and structural framework
- **Hydrologic modeling**
 - ▣ Saltwater intrusion
 - ▣ Well field contributing areas
 - ▣ Canal leakage to groundwater
 - ▣ Inundation during precipitation events
 - ▣ Contaminant transport with deep well injection
- **Data collection**
 - ▣ Borehole and surface geophysical data
 - ▣ Saltwater intrusion monitoring

