

# Intelligent Flood Protection Monitoring, Warning, and Response System

**Client:**

Office of Coastal  
Protection & Restoration

**Location:**

Greater New Orleans, LA

**Benefit:**

Providing instrumentation  
systems for 13 large critical  
levee sections.

## Background & Project Challenges

The State of Louisiana Office of Coastal Protection & Restoration is planning to deploy a state of the art Intelligent Flood Protection Monitoring, Warning & Response System (IFPMWRS) at strategic locations within the Greater New Orleans area. The objectives of the system are to provide state-of-the-art, real-time monitoring for early warning of undesirable performance of the flood protection system.



## Geocomp Role & Accomplishments

Geocomp is the Program Manager for the Intelligent Levee, or iLevee program, a \$3M, 2-year contract to incorporate sensor data from 13 test installations, visual observations from emergency personnel, operations and maintenance information from the levee districts and other publicly-available data streams into a geographical informational management (GIS) system.

Geocomp is also using risk assessment tools and decision theory aids to identify where monitoring can be deployed to provide the largest reduction in risk. The results of this Phase 1 program will be used in the design for the future full-scale roll-out of the system.