

Rhode Island Regional Sediment Management (RSM) Study

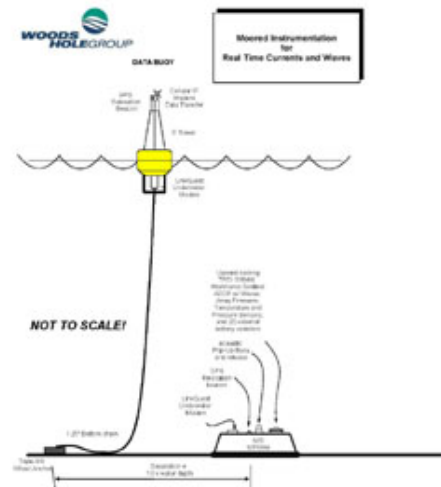
Project Characteristics:

- *Support of Regional Sediment Management Program*
- *Real-Time Oceanographic and Coastal Data Collection*
- *Coastal Inlet Surveys and In-Situ Current Data Collection*
- *Sediment Flux and Backscatter Observations*
- *Oceanographic and Coastal Data Analysis*

Woods Hole Group is the prime contractor for an IDIQ contract with the U.S. Army Corps of Engineers New England District. Under this IDIQ contract, a major data collection Task Order was contracted in the support of the Regional Sediment Management (RSM) Study for the State of Rhode Island. The overall purpose of the study is to develop both local and regional sediment budgets along the coast of Rhode Island and to develop a management plan for the south coast of Rhode Island, incorporating ecosystem concerns, sediment management, and sea level rise considerations. The physical data collected as part of this program will be used to develop, calibrate, and validate a comprehensive set of hydrodynamic, wave, sediment transport, and water quality models that are intended to help guide the Rhode Island (RI) RSM Study.

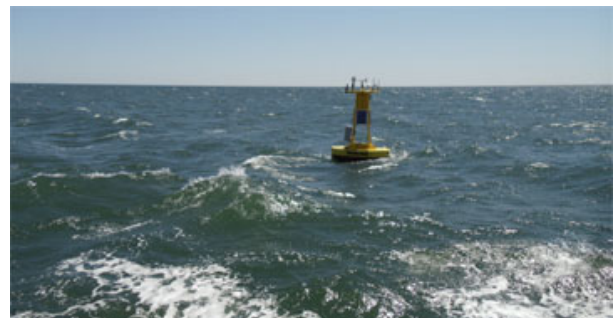
The field measurement program for the Rhode Island RSM Study consists of long-term (yearlong) observations of a wide variety of physical processes, including:

- twelve (12) real-time tide stations deployed throughout numerous coastal inlets and ponds along the RI shoreline
- three (3) real-time wave and current profile (ADCP) stations located offshore of the RI coastline in approximately 30-35 feet of water
- meteorological station
- four (4) in-situ horizontal current profilers observing current/sediment flux at coastal inlets
- optical backscatter observations
- acoustic doppler current profile (ADCP) surveys



Data are provided via real-time webcasting and are available on the Internet. Data will be collected to provide a description of the annual conditions along the coastline and within the coastal inlets/ponds. Data will be analyzed with specific focus placed on the sediment management aspects of the program.

The project also involves numerous stakeholders (including federal and state agencies, local governments, non-government organizations, and commercial and recreational interest groups), significant project management aspects, public involvement and coordination, and plan formulation.



Location: Washington County, Rhode Island
Client: USACE New England District