

COASTAL HAZARDS RESILIENCY

SUPPORTING PLANNING and SAFETY

DATA for COASTAL PLANNERS and EMERGENCY MANAGERS

Rising populations and expanding development in coastal areas are increasing the vulnerability of people and property to storms, hurricanes, flooding, shoreline erosion, tsunamis, and earthquakes. In addition, climate variability may lead to sea level rise and more frequent storms, both of which increase coastal susceptibility.

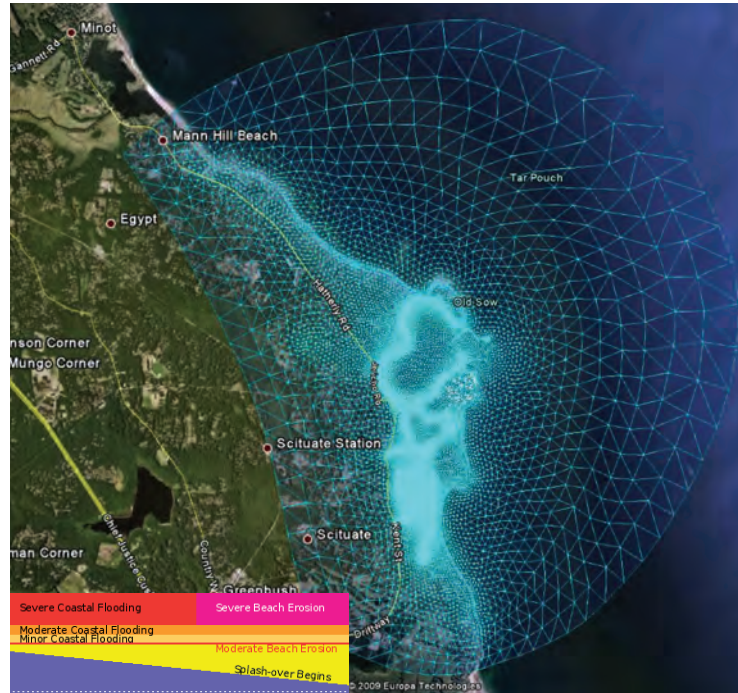
NERACOOS is providing coastal planners and emergency managers with detailed forecasts of coastal inundation and critical historical and real-time ocean and weather data to help them plan for and respond to coastal hazards.

Tools:

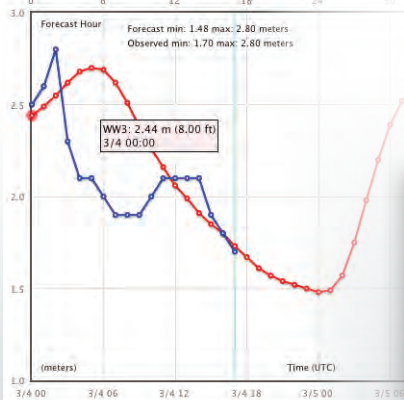
- Real-time data map
- Ocean forecasts of winds, waves, currents, water temperature, and more
- Coastal Flooding and Erosion Forecast
- Long-term data on ocean conditions

BENEFITS

- **LONG-TERM DATA FOR PLANNING**
Coastal planners and emergency managers are better prepared for worst case scenarios with detailed historical data.
- **REAL-TIME INFORMATION FOR EMERGENCIES**
Emergency managers are able to effectively respond to coastal storms using real-time observations.
- **FORECASTS TO REDUCE DAMAGE**
Emergency managers are able to minimize loss of life and property from coastal storms with improved ocean forecasts.



Above: The Coastal Flooding and Erosion Forecast is a decision-support tool that predicts coastal storm damage based on water level and waves.



Left: Data on wave heights at a buoy southeast of Cape Cod. Blue line is the observed height. Red line is the predicted height.



“Greatly improves the ability of the Town staff to provide timely warnings and plan possible emergency responses as needed.”
Town manager

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