

# Sheltering Communities from Coastal Storms



## Developing New Tools and Models to Better Predict Storms

While we can't change the weather, we can better predict the location and impacts of deadly coastal storms. The Coastal Storms Program deploys new observation devices and develops new modeling and decision support tools to help prevent and mitigate storm damage. The goal of the Coastal Storms Program is to protect our families, communities, environment, and property from coastal storms.

The Coastal Storms Program  
The Coastal Storms Program is led by the National Oceanic and Atmospheric Administration (NOAA) and combines the efforts of a variety of organizations (local, state, and federal) to benefit the concerns of coastal communities. Assistance is offered to help local officials fully utilize the resulting tools and information. Some of the products and lessons learned in the pilot regions, which include Florida, the Pacific Northwest, and Southern California, will be applicable

to other coastal communities. The Coastal Storms Program's next pilot region will be the northern Gulf of Mexico.

## Coastal Storms Program: Approach

- Bring together a team of local stakeholders and state and federal organizations
- Assess and prioritize needs and review current capabilities
- Develop new tools, data sets, and partnerships to address critical needs
- Create training and outreach programs to ensure all relevant stakeholders have access to the new information

## Coastal Storms Program: Results

- New estuarine circulation models to improve storm planning, response, and maritime safety
- Enhanced oceanographic and meteorological observations and new models to improve forecasting
- Risk and vulnerability assessments to identify potential hazards
- Flood evacuation models
- Ecological assessments to determine and mitigate threats to the environment

## General Program Information

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