



# NOAA Resilience Resources

Coastal Risk Reduction Trends, Drivers and Developments Session  
2014 Interagency Flood Risk Management Project Workshop

## Data and Trends

- **Sea Level Trends:** The Center for Operational Oceanographic Products and Services has been measuring sea level for over 150 years, with tide stations of the **National Water Level Observation Network** operating on all U.S. coasts. *Link:* <http://tidesandcurrents.noaa.gov/sltrends/>
- **Climate Data:** NOAA's National Climatic Data Center (NCDC) is responsible for preserving, monitoring, assessing, and providing public access to the Nation's treasure of climate and historical weather data and information. *Link:* <http://www.ncdc.noaa.gov/>
- **Economic Data:** Economics National Ocean Watch (ENOW) is time-series data on the Ocean and Great Lakes Economy, which includes six economic sectors that depend on the oceans and Great Lakes. ENOW is available for counties, states, and the nation in a wide variety of formats. *Link:* <http://www.csc.noaa.gov/digitalcoast/tools/enow>

## Tools

- **Coastal Flood Exposure Mapper:** Allows users to view, collect, download, and share online maps of their area that show people, places, and natural resources potentially exposed to coastal flooding. (New!) *Link:* <http://csc.noaa.gov/digitalcoast/tools/flood-exposure>
- **Sea Level Rise and Coastal Flooding Impacts Viewer:** Creates maps of potential impacts of sea level rise along the coast and provides related information and data for community officials. *Link:* <http://www.csc.noaa.gov/digitalcoast/tools/slrviewer/>
- **Coastal County Snapshots Flood Exposure:** Turns complex data into easy-to-understand stories, complete with charts and graphs. The *Flood Exposure Snapshot* assesses a county's exposure and resilience to flooding. *Link:* <http://www.csc.noaa.gov/digitalcoast/tools/snapshots/>

## Training

- **Coastal Inundation Mapping:** Provides information on coastal inundation issues and teaches spatial techniques for mapping inundation. *Link:* <http://www.csc.noaa.gov/digitalcoast/training/inundationmap>
- **Roadmap for Adapting to Coastal Risk:** Provides instruction and online resources for designing a community assessment and planning process that considers coastal risks and vulnerabilities, and identifies strategies for adaptation. *Link:* <http://www.csc.noaa.gov/digitalcoast/training/roadmap>
- **Introducing Green Infrastructure for Coastal Resilience:** Teaches green infrastructure concepts that support coastal resilience. *Link:* <http://www.csc.noaa.gov/digitalcoast/training/green>
- **Climate Adaptation for Coastal Communities:** Conveys information and practical skills for incorporating climate considerations into planning processes, and provides time in class to apply what is learned to individual issues. *Link:* <http://www.csc.noaa.gov/digitalcoast/training/climate-adaptation>

*Coastal resilience means building the **ability of a community to "bounce back"** after hazardous events such as hurricanes, coastal storms, and flooding – rather than simply reacting to impacts*

**About NOAA's National Ocean Service:** NOAA's National Ocean Service (NOS) is the nation's most comprehensive ocean and coastal agency. NOS's mission is to provide science-based solutions through collaborative partnerships to address evolving economic, environmental and social pressures on our oceans and coasts.

NOS recognizes that immediate and potentially life-threatening events such as hurricanes as well as long-term environmental impacts from climate change are very real challenges to sustaining healthy coastal communities and ecosystems. Achieving resilience requires threat and vulnerability identification, planning, response actions, and recovery activities. In addition, the range of NOS authorities and capabilities in coastal and ocean science, navigation, observation, positioning, resource management, habitat conservation, decision support, technical assistance, and training provide a powerful combination to able communities to advance their resilience goals. NOS is skilled at identifying risks and vulnerabilities and working with decision makers to apply sustainable solutions that increase resilience in the face of change.

Within NOS, NOAA's **Coastal Services Center and Office of Ocean and Coastal Resource Management (CSC/OCRM)** provides the technology, information, and management strategies used by local, state, and national organizations to address complex coastal issues.

**About Digital Coast:** The Digital Coast is a web-based, ever-expanding collection of data, tools, trainings, and case studies designed for coastal managers and technicians across the U.S. While the Digital Coast was developed and is currently maintained by the National Oceanic and Atmospheric Administration (NOAA) Coastal Services Center, hundreds of organizations and federal, state, and local agencies have contributed content. This resource is the proverbial one-stop shop for the nation's coastal management community.

The **Digital Coast Partnership** is a group of eight national organizations that work with NOAA to ensure coastal managers have the relevant data, tools, and information needed to make informed decisions about our nation's coastal resources. The Digital Coast Partnership includes these organizations:

- American Planning Association
- Association of State Floodplain Managers
- Coastal States Organization
- National Association of Counties
- National Estuarine Research Reserve Association
- National States Geographic Information Council
- The Nature Conservancy
- Urban Land Institute