Coastal Impacts and Adaptation: Tools and Information

Rebecca Smyth
National Oceanic and Atmospheric Administration (NOAA)
Coastal Services Center

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The Goal

To develop user-driven products and services for coastal climate adaptation
User Needs

- Inundation mapping
  Data and capacity

- Risk and Vulnerability assessment

- Risk communication
  To decision makers
About the Digital Coast

"More than just data," the Digital Coast is a network of diverse partners working together to address coastal issues. Website content is growing with contributions and guidance from the partner network and the user community.

- Digital Coast Details
- About the Partners
- How to Use this Site
- Submitting Content

Data
Learn more about the kinds of data available and download data.

Tools
Use these tools to turn data into useful information your organization needs.

Training
Update your skills by participating in one of these training programs.

Digital Coast In Action
See how data and tools are used to address coastal management issues.

Digital Coast Website
This website provides data required by coastal resource management professionals, as well as the tools, training, and information needed to turn these data into useful information.

New Resource
Coastal Inundation Toolkit
Helping communities identify and lessen flood-related risks.

Featured Tool
Multipurpose Marine Cadastre
Providing a framework for marine spatial planning efforts.

Partner Resource
Building Resilient Coastal Communities
See how coastal counties can use Digital Coast to build resilient communities.
In Action
Coastal Inundation Toolkit

Understand
Understand basic information about coastal inundation

Identify
Identify your county's exposure and examine potential impacts

Map
Map inundation to "see" potential impacts

Assess
Assess community risk, vulnerability, and resilience

Communicate
Communicate risk information to your community

Discover
Discover how real communities are addressing this issue

Highlighted Resources

Building Resilient Coastal Communities: Counties and the Digital Coast

This publication by the National Association of Counties highlights many of the Digital Coast resources that county officials can use to address coastal flooding, habitat conservation, and land use issues.
CanVis Visualization Software

- Easy to use
- No geographic information system (GIS) required
Invasive Species
Simulation

Lake Level Drop
Put-in-Bay, Lake Erie

Photo Credit: Don Coles
www.aerialpics.com
Training

1. Coastal Community Planning and Development
2. Adapting to Coastal Risk
3. Coastal Inundation Mapping
4. CanVis
5. Project Design and Evaluation
6. Public Issues and Conflict Management
NOAA’s Regional Climate Services Program

Regional Climate Services Enterprise

Regional Climate Products and Services*
Regional Climate Science (Modeling, Research and Assessment)*
Regional Climate Services Directors

State, Local, and Tribal Climate Services*

NOAA Regional Teams
NMFS
NOAA Labs
Sea Grant Research

100RAS
EPA
CSC
FEMA
CZM
Sea Grant Extension
NERC
Marine Sanctuaries
USDA
DOE
NGOs

Government
Private Sector
Academia
NGOs

National Partners
NOAA Partners
Interagency Impacts & Adaptation Support Partners
Keystone CSO Partners

NOAA Coastal Services Center
LINKING PEOPLE, INFORMATION, AND TECHNOLOGY
What Does It Mean To Be User Driven?

- Engaging users
- Assessing user needs
- Defining the appropriate audience
- Working with them to build capacity
Extra slides
A National Climate Service

It would provide wide-ranging benefits to society and the economy, both nationally and internationally

• Improved understanding of the causes and impacts of climate variability and change will enable sound adaptation and mitigation strategies

• More accurate climate predictions will improve preparation for and response to heat waves, drought, coastal inundation, and other phenomena

• Policy makers and business leaders will be equipped with the most accurate and credible information to inform their decisions

• Relevant and reliable climate data will stimulate the private development of technologies and applications