Digital Coast Products

The following resources were shared during the *Diving into the Digital Coast* webinars delivered on December 5 and December 13, 2023. Find additional resources on the Climate Resilience Regional Challenge technical assistance and resources list pages.

Digital Coast Website
Dive in to get the data, tools, and training that communities need to address coastal issues.

Data
Find and download data for your coastal management needs.

Tools
Use these tools to turn data into useful information.

Training
The go-to site for coastal management training.

Topics
Gain easy access to the Digital Coast resources often associated with these topics.

Data Access Viewer
This online tool allows a user to search for and download lidar, imagery, and land cover data by user-defined geography. Once found, the data can be downloaded with an easy-to-use checkout interface. Users can select from multiple file formats, projections, and datum.

Land Cover Atlas
This online data viewer provides user-friendly access to coastal land cover and land cover change information developed through NOAA's Coastal Change Analysis Program (C-CAP). The tool eliminates the need for a desktop GIS or advanced technical expertise by processing data for the user and providing easy access to the distilled information. The tool summarizes general change trends (such as forest losses or new development) and provides tables, maps, and reports to enhance communication and decision-making.

Coastal Flood Exposure Mapper
This online visualization tool supports communities that are assessing their coastal hazard risks and vulnerabilities. The tool creates a collection of user-defined maps that show the people, places, and natural resources exposed to coastal flooding. The maps can be saved, downloaded, or shared to communicate flood exposure and potential impacts. The current geography includes the East Coast, West Coast, Gulf of Mexico, Great Lakes, and islands in the Pacific and Caribbean.

Sea Level Rise Viewer

Use this web mapping tool to visualize community-level impacts from coastal flooding or sea level rise (up to 10 feet above average high tides). Photo simulations of how future flooding might impact local landmarks are also provided, as well as data related to water depth, connectivity, flood frequency, socioeconomic vulnerability, wetland loss and migration, and mapping confidence.

Lake Level Viewer

This web-based tool creates visuals that capture lake level changes that range from six feet above to six feet below historical long-term average water levels in the Great Lakes. Potential shoreline and coastal impacts are also provided. This information can be used to determine appropriate preparations, including zoning restrictions, infrastructure improvements, and habitat conservation.

Coastal County Snapshots

This online tool provides an easy way to better understand county resilience in terms of flood hazards, critical facilities, jobs, businesses, and more. Current snapshot topics include flood exposure, marine economy, total economy, and exposure to sea level rise. Users choose their county and topic of interest and the tool automatically combines complex data sets to create county-specific insights. The resulting charts and graphics are easy to understand and show where the county is most vulnerable. Two options are available: print or electronic.

Preparing for Effective Risk Communication

Looking for ways to better engage audiences of all backgrounds? This course provides the steps you might follow to develop a risk communication strategy focused on, and designed to meet the needs of, a specific audience. You'll also learn how to listen more effectively, share information appropriately, and build relationships for improved conversations about hazards.

Risk Communication Strategy Template

Download and use this worksheet to identify who you would like to engage and how you will engage them. Start with the key elements for communicating effectively about risk: your challenge, goal, and audience.

Connecting with Your Audience: Planning Your Next Interaction

Download and use this worksheet to plan your next interaction to connect with your audience on coastal hazard risks.

Needs Assessment Guide

This guide offers a stepwise process (complete with resources and real examples) to help plan and conduct a needs assessment.

Introduction to Survey Design and Delivery

This document provides insight into the various types and methods of survey research, including sampling techniques, survey delivery mechanisms, and effective survey questions and reporting of results.

Introduction to Conducting Focus Groups

This document is an introduction to key elements and practices that can increase the success of a focus group effort.

Facilitation Techniques

Use this handout as a quick reminder of the key facilitation techniques used by successful facilitators to manage participant discussion and ensure that meeting goals are accomplished.

Meeting Engagement Tools

An effective meeting requires good planning, strong facilitation, and activities that help participants reach meeting goals. Use the tools listed below to ensure success.

Green Infrastructure Effectiveness Database

Search this online database for information on the

- Effectiveness of green infrastructure to reduce the impacts of flooding and erosion
- Economics of green infrastructure (e.g., cost-benefit analysis)

Nature-Based Solutions for Coastal Hazards: The Basics

Learn an approach for identifying your community's coastal hazard issues, ecosystem services that can reduce hazard impacts, and green infrastructure practices that can provide those services. Develop the beginnings of a community green infrastructure plan.