





MISSION

COVERT ACTION: Bring the geospatial and coastal resource management communities together

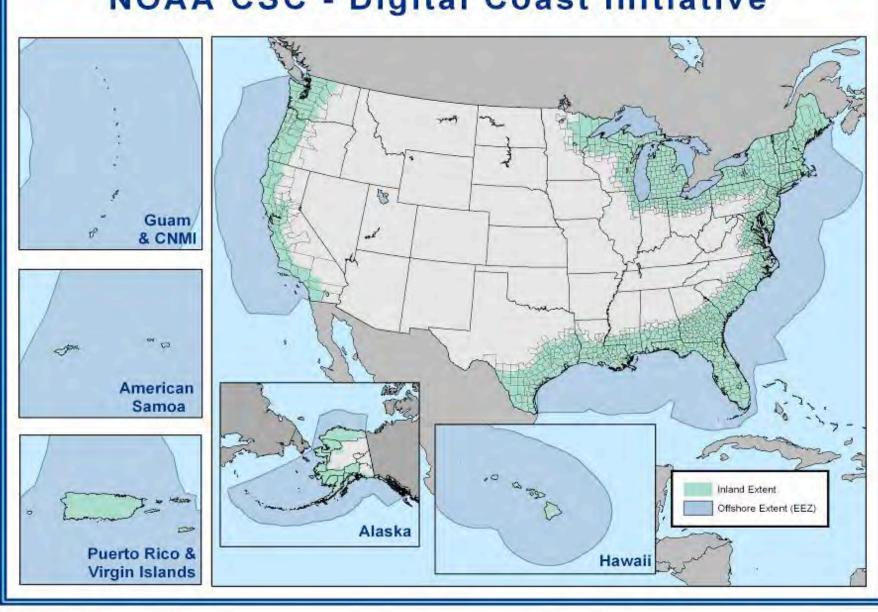


ASSIGNMENT: A constituent-driven, integrated, enabling platform





NOAA CSC - Digital Coast Initiative



DIGITAL

phase two and all future expansion efforts.

Learn more...

DOMINION DALA



Privacy Policy Link Disclaimer USA.qov

More than just data...

The Digital Coast also provides the tools, training, and information needed to turn these data into the information most needed by coastal resource management professionals. Read more...

Welcome to the new Digital Coast. If you have questions or comments, please take a video tour or contact us.

Data

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

Tools

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

Training

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

In Action

See how data and tools are used to address coastal management issues.

Approaches

In this section, Digital Coast resources are packaged in a way that best assists coastal communities working to address a specific issue.

Coastal Inundation Toolkit

Understand the basics and get the tools that will help make your community more resilient.

Offshore Renewable Energy Planning

Get the data and tools needed to make siting decisions.

Featured Resources

State of the Coast

Get a state-level view of how coastal ecosystems, economies, and communities are connected.

Building Resilient Coastal Communities

See how coastal counties can use Digital Coast to build resilient communities.

Mississippi Geospatial Clearinghouse

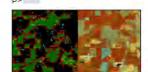
A comprehensive spatial information warehouse for use by government, academia, and the private sector.

Recent Updates Sign up for updates Subscribe to RSS feed



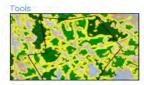
Community Resource Inventory (South Carolina)

Provides an online mapping atlas of the natural and cultural resources in a



C-CAP Forest Fragmentation Data

Value-added maps of forest fragmentation derived from NOAA's land cover data using



Landscape Fragmentation Tool

Maps the type of fragmentation present in a specified land cover feature and produces a data set containing

Testimonials

What a great resource! And the way you've reached out to such diverse organizations to develop this resource is unique and commendable.

> Participant, South Carolina geographic information system conference

If you have content to submit to the Digital Coast, <u>let us</u>

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Coastal Inundation Toolkit

Home About Glossary Resources

Understand

What is coastal inundation, its causes, and impacts?

Identify

How do I recognize community risks?

Map

Training

How can inundation maps help?

Communicate

What are the best ways to communicate risk and vulnerability information?

Discover

What are others doing to address coastal inundation?

About The Toolkit

Provides the tools and information communities need to understand and address coastal flooding.

Highlighted Resources



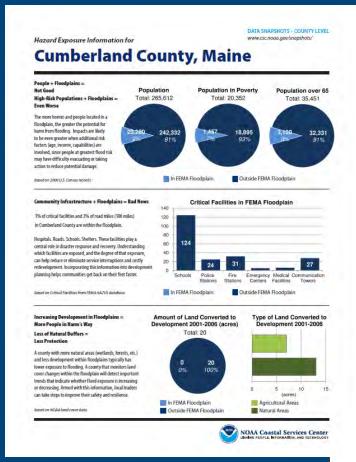
Building Resilient Coastal Communities: Counties and the Digital Coast

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.

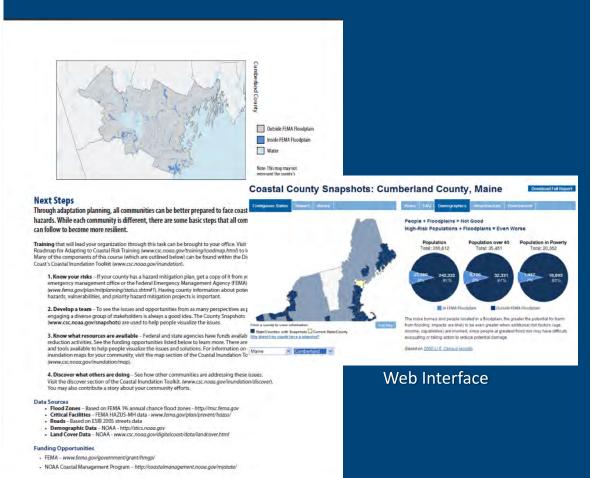
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COASTAL INTELLIGENCE - CODE NAME "SNAPSHOT"



PDF Downloads



NOAA Coastal Services Center

LINKING PEOPLE, INFORMATION, AND TECHNOLOGY





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Tools

Welcome to the new Digital Coast. If you have questions or comments, please take a video tour or contact us.

The tools on this page support coastal decision-making by transforming Digital Coast data into information tailored for specific issues. Some tools are Web-based, providing direct online analysis and viewing, while others are downloadable extensions that provide new functionality for desktop geographic information systems. Have an idea for a tool you would like to see in the Digital Coast? Make a tool suggestion to the Digital Coast.

riller by Category.

Filter by Category: All Categories

Filter by Issue: All Issues

V

Analysis Tools

Use data to produce value-added results based on application



Benthic Terrain Modeler

Oregon State University and NOAA

Derives benthic terrain classifications from input bathymetry

More Info Get It Now



Digital Shoreline Analysis System

U.S. Geological Survey

Computes rate-of-change statistics from multiple historic shoreline positions

More Info | Get It Nov



eCoastal Tools

U.S. Army Corps of Engineers

Provides data management and analysis solutions for coastal engineering projects

More Info Get It Now



Habitat Priority Planner

NOA

Helps to identify priority locations for conservation and restoration planning (extension to ArcGIS with Spatial Analyst)

More Info Get It No

Featured Tool

Multipurpose Marine Cadastre

Provides a framework for marine spatial planning efforts

Tool Resources

Ecosystem-Based
Management Tools Network
Supports the implementation of
ecosystem-based management
tools in coastal and marine
environments and the terrestrial
environments that affect them





NEMO OPERATIVE: LANDSCAPE FRAGMENTATION TOOL







NEMO OPERATIVE: COMMUNITY RESOURCE INVENTORY

Tools

Community Resource Inventory (South Carolina)

Clemson University, Baruch Institute

Overview

A community resource inventory is an online mapping atlas of the natural and cultural resources in a community, along with human dimensions information. The human dimensions information includes land parcels, urban areas, and streets and highways. For South Carolina, the Community Resource Inventory-South Carolina (CRI-SC) tool presents these data in an online map for users without traditional geographic information system capabilities. Having a detailed set



of inventory maps assists users in making educated decisions about land use to maintain environmental integrity. This initial version of the CRI-SC is a pilot program being tested for Georgetown County, with a goal for expansion to include all South Carolina coastal counties.

Features

Inventories important community data sets, including natural, demographic, and planning information

Prioritizes and analyzes specific actions for zoning, planning, and habitat assessment

Explores geospatial data specific to community land use planning needs



Support

Community Resource Inventory (CRI) South

Partners

Clemson University's Baruch Institute of

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C-CAP Land Cover Atlas (Beta)

NOAA Coastal Services Center

Overview

Requirements

Support

Get It Now

Overview

This online data viewer provides user-friendly access to regional land cover and land cover change information developed through NOAA's <u>Coastal Change Analysis Program (C-CAP</u>). The Land Cover Atlas eliminates the need for desktop geographic information system software, or advanced technical expertise, by processing C-CAP data for the user and providing easy access to that distilled information. The tool summarizes general change trends (such as forest losses or new development) and can highlight specific changes of interest (salt marsh losses to open water, or evergreen forest losses to development, for instance).

New PDF change summary reports now available!

Provide feedback on the Land Cover Atlas



Features

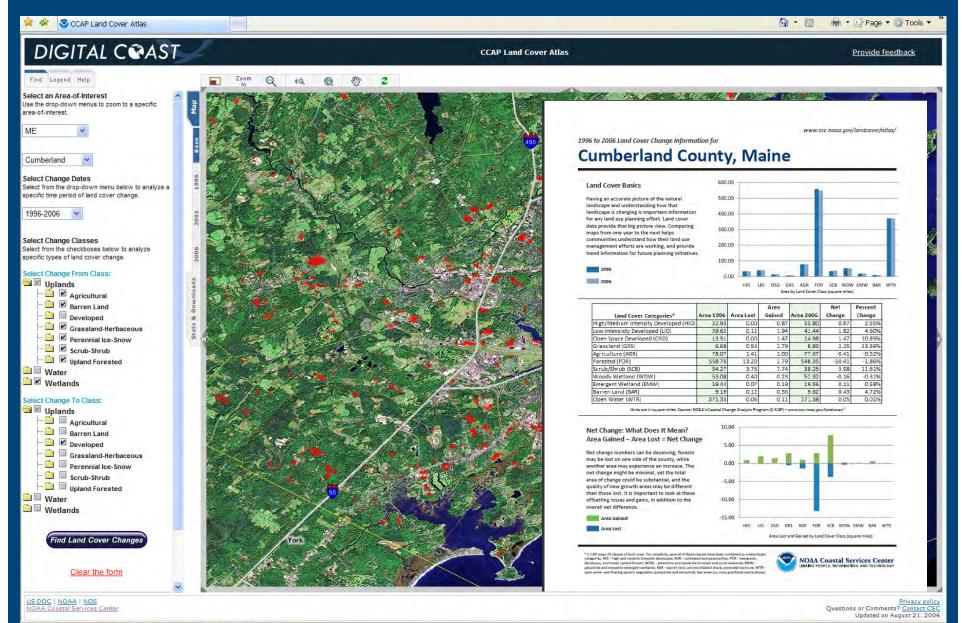
Helps users to visually analyze and explore NOAA's geospatial land cover data by county for areas of user interest

Allows users to query specific types of land cover changes for specific date ranges and potentially evaluate their amount and location in relation to past management practices

Creates summary reports and data tables to enhance communication and the decisionmaking process



CHANGE ANALYSIS RESULTS: ALL UPLAND CHANGE TO DEV



Map: -70.37 , 43.73 -- Image: 329 , 165 -- ScaleFactor: 0.00029742267048271523

√ Trusted sites

100% -

COASTAL INTELLIGENCE



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Welcome to the new Digital Coast. If you have questions or comments, please take a video tour or contact us.

These data sets represent some of the coastal data most requested by Digital Coast partners. Access to data managed by the NOAA Coastal Services Center is provided through the Data Access Viewer, which allows for user-specified geographies, formats, and resolutions. Other data sets are provided through various mechanisms maintained by their agencies of responsibility. Have an idea for a data set you would like to see in the Digital Coast? Make a data suggestion to the Digital Coast.

Filter by Category: All Categories Benthic

Benthic Elevation

Hydrography Land Cover

er Data

Marine Boundaries Socioeconomics

nthic habitat polygons derived from aerial optical or swath acoustic



Grab Sample Data

Nearshore point observations of bottom type, derived from physical sediment grab samples



Sediment Profile Imaging Data

Nearshore sediment point observations derived from the sediment profile imaging (SPI) camera system

More Info Get It Now



Single-Beam Acoustic Data

NOAA

Nearshore point observations of bottom type, derived from single-beam, acoustic signal processing

tore Info | Get It Naw

Featured Resources

Mississippi Geospatial Clearinghouse

A comprehensive spatial information warehouse of geographic information system (GIS) resources for Mississippi for use by government, academia, and the private sector.

Great Lakes Information Network

A centralized location to discover, publish, and acquire geospatial data for areas within the Great Lakes region.

The National Map

Multiple resources that provide Web-based geographic products and services as well as downloadable data from the U.S. Geological Survey and other federal, state, and local partners.

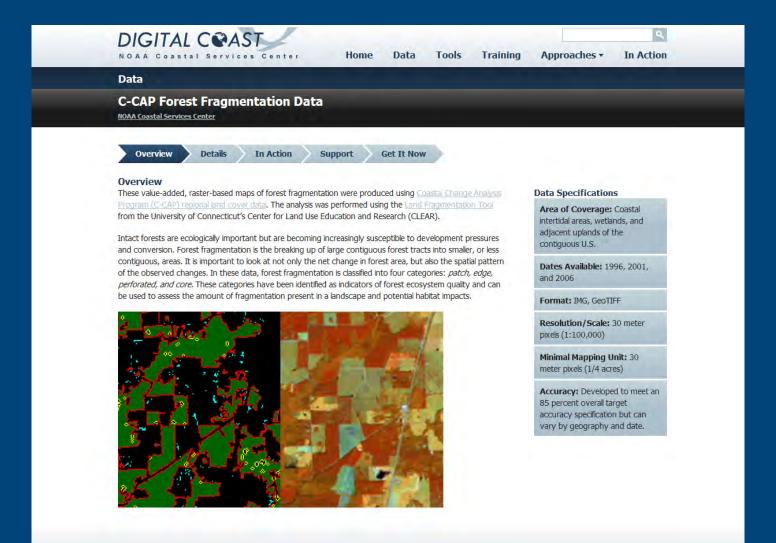
Additional Data Resources

Access more state, regional, and local data resources.





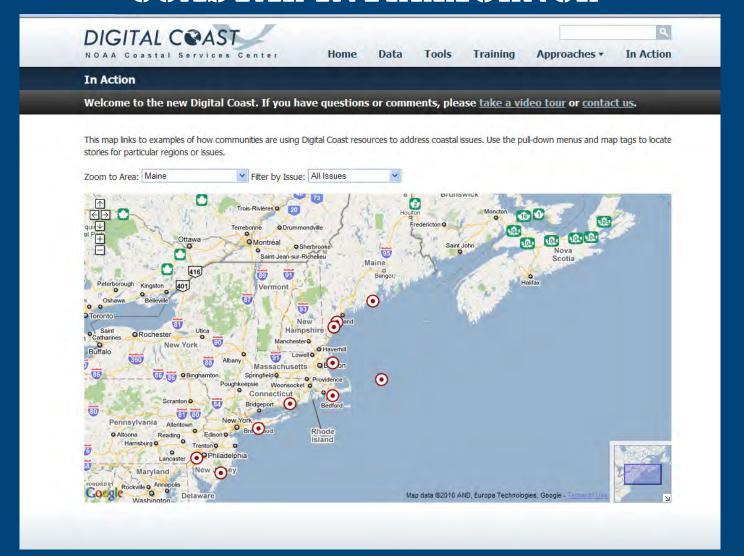
NEMO OPERATIVE: FOREST FRAGMENTATION DATA







COASTAL INTELLIGENCE







TRAINING OUR LEGIONS . . .

In Action

Building Technical Capacity in Coastal Maine

Overview

Increasing stressors in coastal areas make it difficult for individual organizations to reach their conservation goals. Recognizing the need to collaborate and build the technical capacity of coastal land trusts, the Maine Coast Protection Initiative (MCPI), a coalition of over 70 coastal organizations, banded together to increase the pace and quality of coastal land conservation. The group established three geographic information system (GIS) service centers in coastal Maine, and coordinated with the U.S. Fish and Wildlife Service Gulf of Maine Coastal Program, which also acts as a GIS service center for the area.

The Process

The GIS service centers received baseline data bundles for coastal Maine, including land cover and shoreline data. The MCPI service centers were also trained in conservation data documentation and GIS. Data produced by the State of Maine's <u>Beginning with Habitat program</u>, which identifies ecologically important habitat, were added to the baseline data to create information maps that help guide local conservation efforts.

The service centers provide mapping services, data, and various levels of training to coastal land trusts, giving these organizations the necessary information and skills in geospatial technology to successfully conserve coastal resources. The four centers are also working together to produce a database of conservation lands within each center's area of interest, an initiative that has improved local and statewide communication among conservation-minded stakeholders. Equipping land trusts with GIS tools and training allows these organizations to better address coastal conservation challenges by supporting smarter, more effective decision-making in the coastal zone.

Related Data

- Land Cover
- Shoreline

Related Training

· Introduction to ArcGIS

Partners in This Effort

- Land Trust Alliance
- · Maine Coast Heritage Trust
- Maine State Planning Office
- NOAA Coastal Services Center
- U.S. Fish and Wildlife Service, Gulf of Maine Coastal Program









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Welcome to the new Digital Coast. If you have questions or comments, please take a video tour or contact us.

These training opportunities help users address coastal issues and make the most of the data and tools found on Digital Coast. Trainings are offered in a variety of formats, from traditional classroom-based trainings to self-guided, Web-based instruction. Want your training offering included on this website? Make a training suggestion to the Digital Coast.

Filter by Category: All Categories Filter by Delivery Type: All Types

Geospatial Training

Classroom-based instruction for core geospatial skills



Assessing GIS for your Organization

Assists organizations in understanding the components needed to establish and use GIS



GIS for Managers

Provides an overview of the basic principles and functionality of ArcGIS



Introduction to Coastal GIS

Provides the fundamentals of ArcGIS software, framed within a coastal management context



Remote Sensing for Spatial Analysts

Offers an application-focused approach to remote sensing technologies and image analysis techniques

Featured Resource

Center for Land Use Education and Research

Provides training and resources for GIS, GPS, and online mapping

Upcoming Training Opportunities

CanVis

Web-based Training September 15, 2010 1:00 p.m. to 4:00 p.m. (EST)

Habitat Priority Planner

Tool Demonstration September 27, 2010 2:00 p.m. to 3:00 p.m. (EST)

See all Coastal Services Center Training





COME ROLL IN OUR DISCUSSION







FOR NEMO EYES ONLY . . .

- How can the Digital Coast potentially assist planners?
- What are the primary issues faced by this audience? Where can we help?
- What components of the Digital Coast should we consider for expansion? Are there gaps?
- Are there case studies or content that we should consider highlighting?
- How can we best access this audience to keep them updated and to provide technical support?







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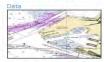
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Mississippi Geospatial Clearinghouse

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Raster Navigational Charts

Full-color digital images of NOAA's entire suite of paper navigational charts



Electronic Navigational Charts

Vector data sets developed to support safe navigation in U.S. waters



NLCD Percent
Developed Impervious
Surface

Nationally consistent estimates of the amount of man-made impervious surfaces

Testimonials

The tools on this website provide us with incredible opportunities for training department heads, elected and appointed officials, and the general public.



Planner, South Carolina

If you have content to submit to the Digital Coast, let us know



