

NOAA Digital Coast

Actionable Information for Coastal Communities

The screenshot shows the NOAA Digital Coast website homepage. At the top, the text "More Than Just Data" is displayed in white against a dark blue background with a coastal scene. Below this, a subtitle reads: "Dive into the Digital Coast to Get the Data, Tools, and Training Communities Need to Address Coastal Issues." A central navigation bar contains four icons: a bar chart for "Data", a wrench for "Tools", a computer monitor for "Training", and a globe for "Stories". Below the navigation bar, the section "What Is the Digital Coast?" is visible, followed by a "QUICK LINKS" section with a list of links including "About" and "Digital Coast Act".

More Than Just Data

Dive into the Digital Coast to Get the Data, Tools, and Training Communities Need to Address Coastal Issues.

Data

Tools

Training

Stories

What Is the Digital Coast?

Coastal community leaders use the content found in this NOAA-sponsored website to address issues commonly associated with a changing climate and a growing population.

Read our tips for first-time users. If you have questions or comments, please let us know. Customer

QUICK LINKS

- About
- Digital Coast Act



Digital Coast

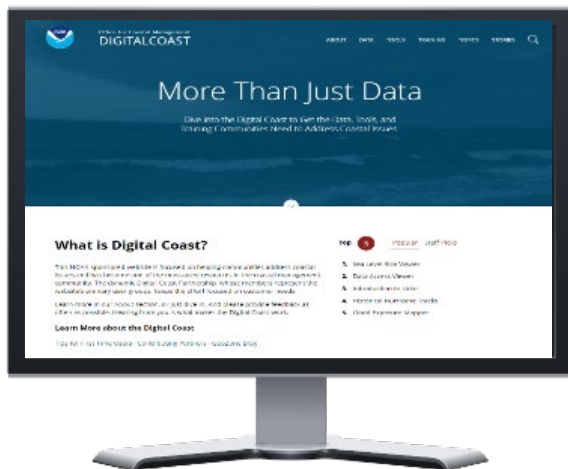
- **Approach:** Bring the geospatial and coastal management communities together
- **Outcome:** A constituent-driven, integrated, enabling platform supporting coastal resource management that is used



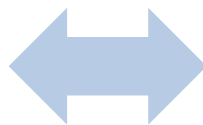
The screenshot shows the NOAA Office for Coastal Management Digital Coast website. The header includes the NOAA logo, the text "Office for Coastal Management DIGITALCOAST", and navigation links for "ABOUT", "DATA", "TOOLS", "TRAINING", "TOPICS", and "STORES". The main heading is "More Than Just Data" with the subtext "Dive into the Digital Coast to Get the Data, Tools, and Training Communities Need to Address Coastal Issues." Below this is a navigation bar with four icons: "Data" (bar chart), "Tools" (wrench), "Training" (screen with cursor), and "Stories" (globe). The main content area features a section titled "What Is the Digital Coast?" with a paragraph: "Coastal community leaders use the content found in this NOAA-sponsored website to address issues commonly associated with a changing climate and a growing population." Below this is a "QUICK LINKS" section with a list: "About", "Digital Coast Partners", "Fellowship", and "Newsletter".



Digital Coast Enabling Platform



coast.noaa.gov/digitalcoast



NOAA OFFICE FOR COASTAL MANAGEMENT

Facilitating Use and Application



DISCOVER



DOWNLOAD



MAP



ANALYZE



LEARN



SHARE

DATA

INFORMATION

ACTION



NOAA

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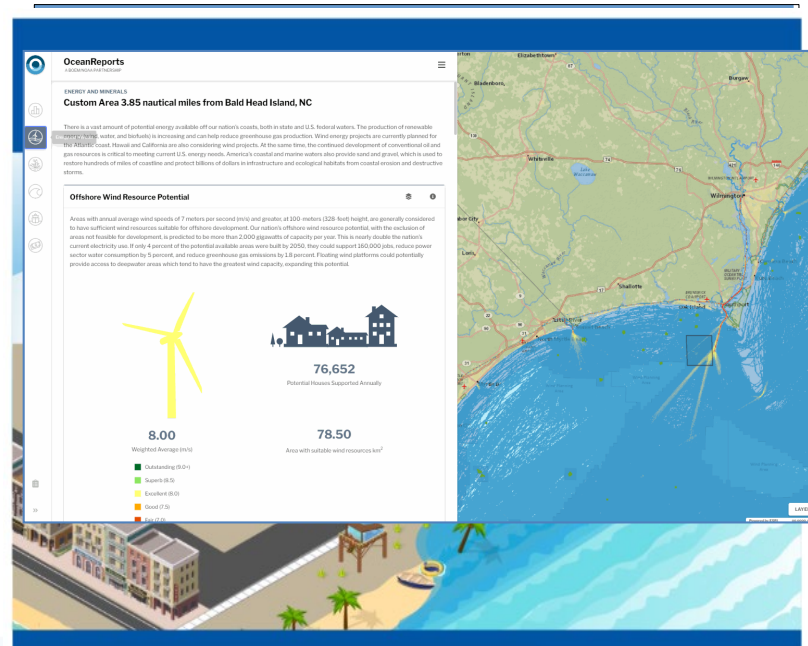
Digital Coast by the Numbers

Data – 500+ terabytes of high-resolution elevation data, land cover data, and orthoimagery (~2,900 data sets)

Tools – 70+ tools visualizing integrated data

Training – 180+ learning resources

Stories from the Field – 130+ narratives that demonstrate the application of Digital Coast information to coastal issues



NOAA

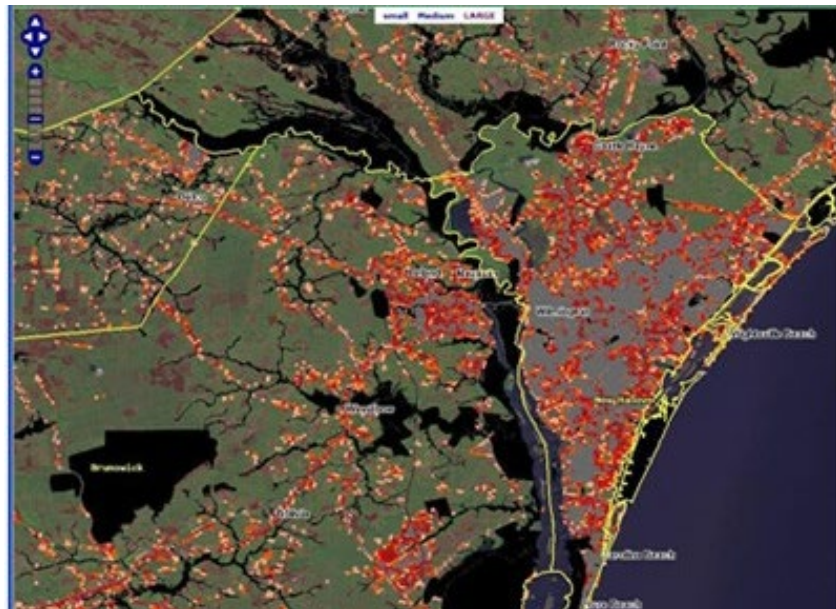
MORE THAN JUST DATA

NOAA OFFICE FOR COASTAL MANAGEMENT

Making an Impact

Modeling Future Development for Eastern North Carolina

- **Partners:** U.S. Department of Defense, U.S. Geological Survey, NOAA Office for Coastal Management
- **Products:** Coastal Change Analysis Program (C-CAP) Land Cover Data
- **Outcome:** Land cover change information obtained from the NOAA Coastal Change Analysis Program was used in conjunction with elevation and transportation data to model future development around the region's military installations.



NOAA

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Digital Coast Partnership

- 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
- NOAA Office for Coastal Management



NOAA OFFICE FOR COASTAL MANAGEMENT

Digital Coast Strategic Goals

- Providing Actionable Decision Support Resources
- Increasing Availability of Core Coastal Data sets
- Advancing the Partnership
- Expanding Interagency Collaborations
- Enhancing the Platform

Digital Coast Strategic Plan

2021 to 2026

Office for Coastal Management



NOAA OFFICE FOR COASTAL MANAGEMENT

Digital Coast Act

Taking A Giant Leap Forward

- More data, tools, and training
- Greater focus on underserved
- Share best practices
- Ocean and Great Lakes economic data
- Increased fellowship and partner opportunities
- Improved user experience



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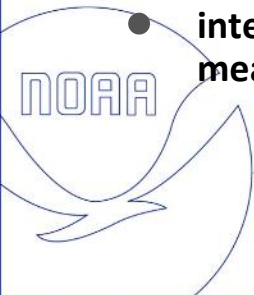
Data Requirements

Fill needs and gaps:

- maximize the use of remote sensing and other geospatial data collection activities conducted for other purposes and under other authorities;
- focus on filling data needs and gaps for coastal management issues, **including areas underserved by coastal data and the areas of the Arctic** that are under the jurisdiction of the United States;

(A)coastal elevation data; (B)land use and land cover data; (C)socioeconomic and human use data; (D)critical infrastructure data; (E)structures data; (F)living resources and habitat data; (G)cadastral data; and (H)aerial imagery

- **integrate the priority supporting data with other available data for the benefit of the broadest measure of coastal resource management constituents and applications.**



MORE THAN JUST DATA

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Requires Federal Coordination

Objective: optimize data collection, sharing and integration, and to minimize duplication

Consult with other Federal agencies on relevant Federal activities

- Ocean and Coastal Mapping Integration Act
- Coastal Zone Management Act of 1972
- Integrated Coastal and Ocean Observation System Act of 2009
- Hydrographic Services Improvement Act of 1998

(others: Geospatial Data Act; National Landslides Preparedness Act, etc.)



MORE THAN JUST DATA

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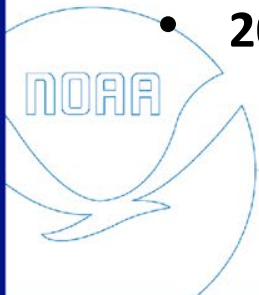
Regional Land Cover Change Analysis

<https://coast.noaa.gov/digitalcoast/data/ccapregional.html>

- Landsat Imagery based (30-meter)
- **Updated every 5 years**
 - 1975, 1985, 1992 in some locations
 - 1996, 2001, 2006, 2011 CONUS-wide
- **Coastal expression of the NLCD**
- **2016 update released in March 2020**
- **2019 update to be released in 2021**



Note: The Pacific and Caribbean islands have high resolution C-CAP coverage. AK is mapped by the USGS.



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High Resolution Land Cover Analysis

<https://coast.noaa.gov/digitalcoast/data/ccaphighres.html>

- **High Resolution faster, cheaper, better**
 - Constituent demand and needs
 - Data availability and Improved technology
- **Target 2019 - 2021 national buildout**
 - By 2025
 - Future updates at this scale

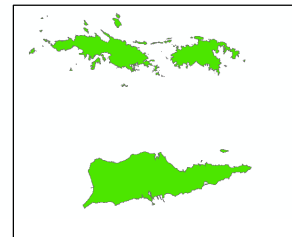
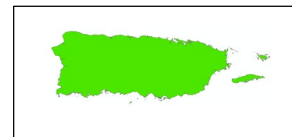
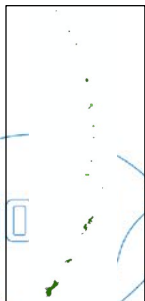


Includes Guam,
American Samoa,
and CNMI



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High Resolution Land Cover Analysis



- Complete
- In progress
- Planned

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NO

Connect with the Digital Coast

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