

# **NOAA'S DIGITAL COAST**

## **Actionable Information for Coastal Communities**

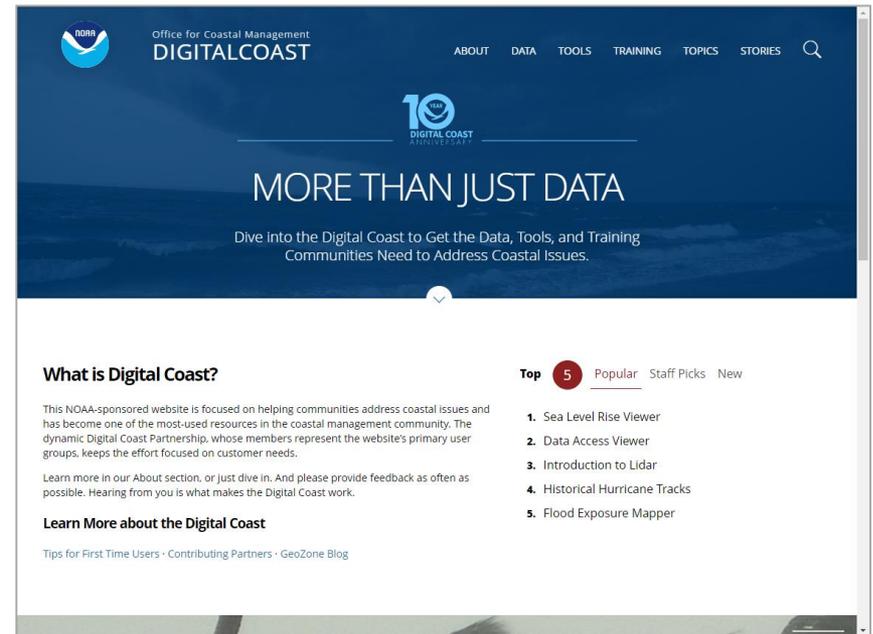
**National Geospatial Advisory Committee Meeting**

**Tony LaVoi, NOAA GIO and NOAA Office for Coastal Management**

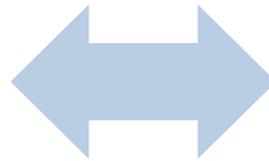
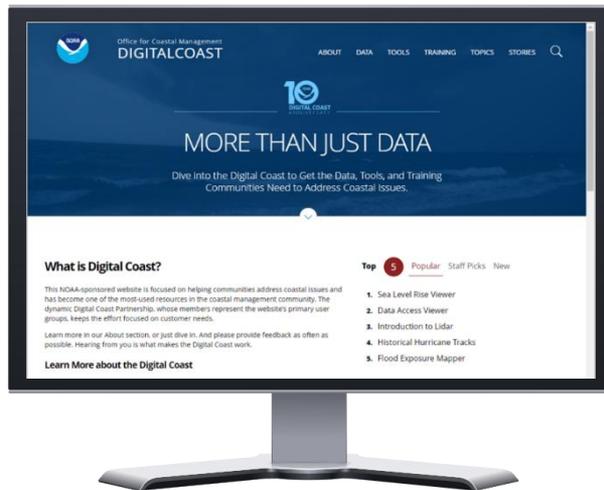
**September 5, 2018**

# 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



# Digital Coast Enabling Platform



<https://coast.noaa.gov/digitalcoast>

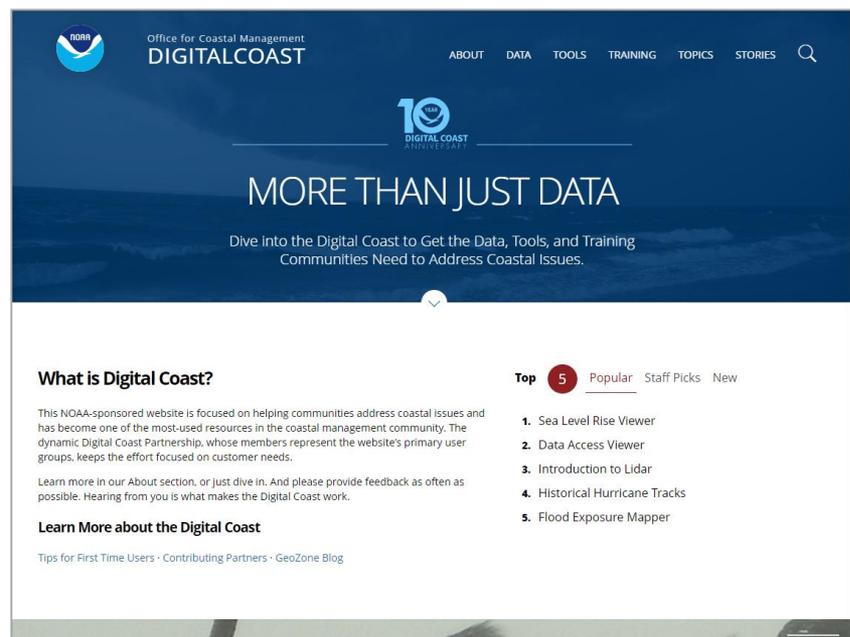
# Digital Coast Partnership

- NOAA Office for Coastal Management
- 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



# Digital Coast Website

- Provides effective and efficient access to coastal geospatial data, tools, training, and case studies
- Facilitates linkages between elements to enhance utility and application
- Provides opportunity to demonstrate role of geospatial information in decision-making



# Facilitating Use and Application



DISCOVER



DOWNLOAD



MAP



ANALYZE



LEARN

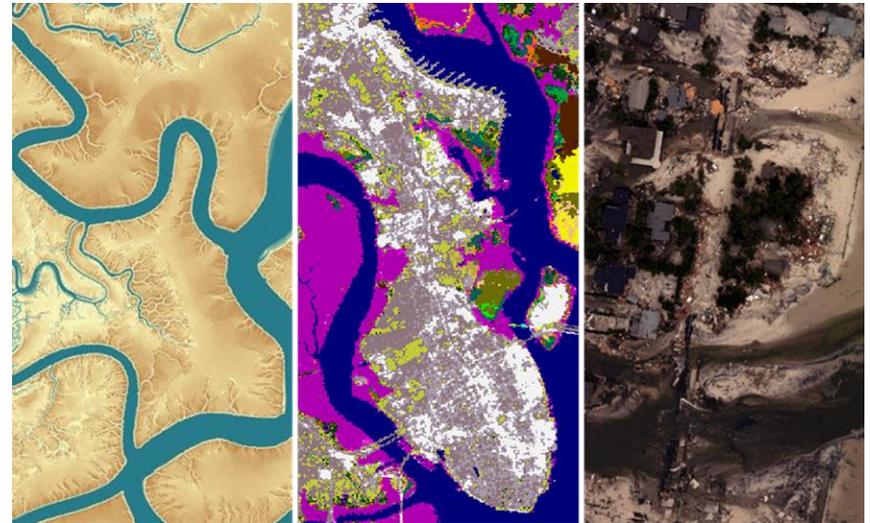


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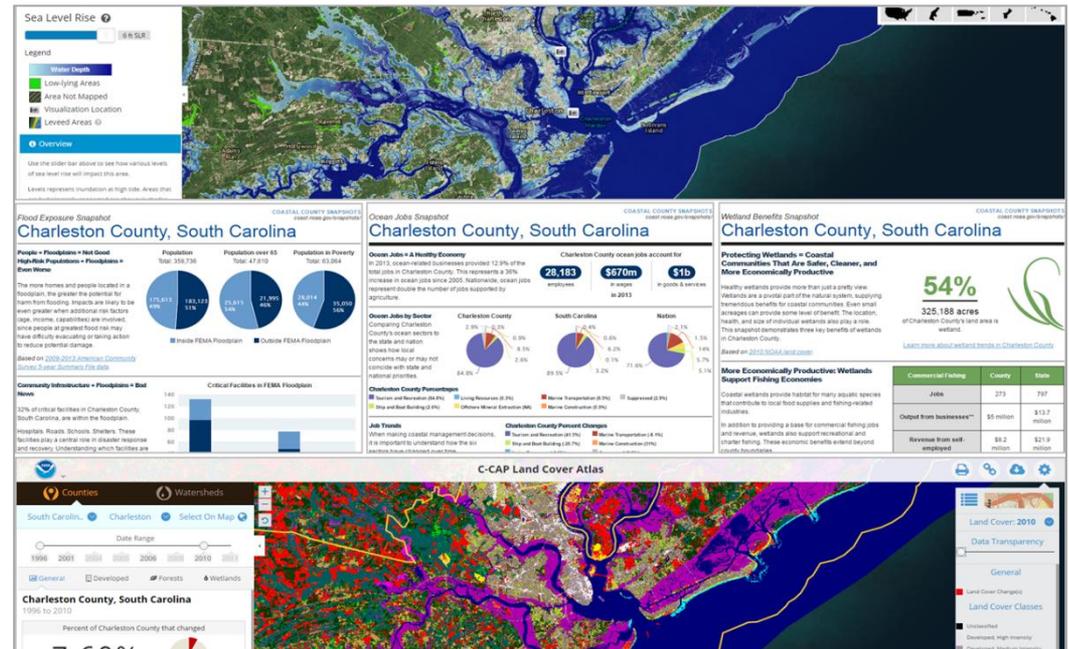
# Digital Coast Data

- Over 70 terabytes of high-resolution elevation data, land cover data, and orthoimagery
- 200+ web mapping services
- Linkages national-level coastal data sets



# Digital Coast Tools

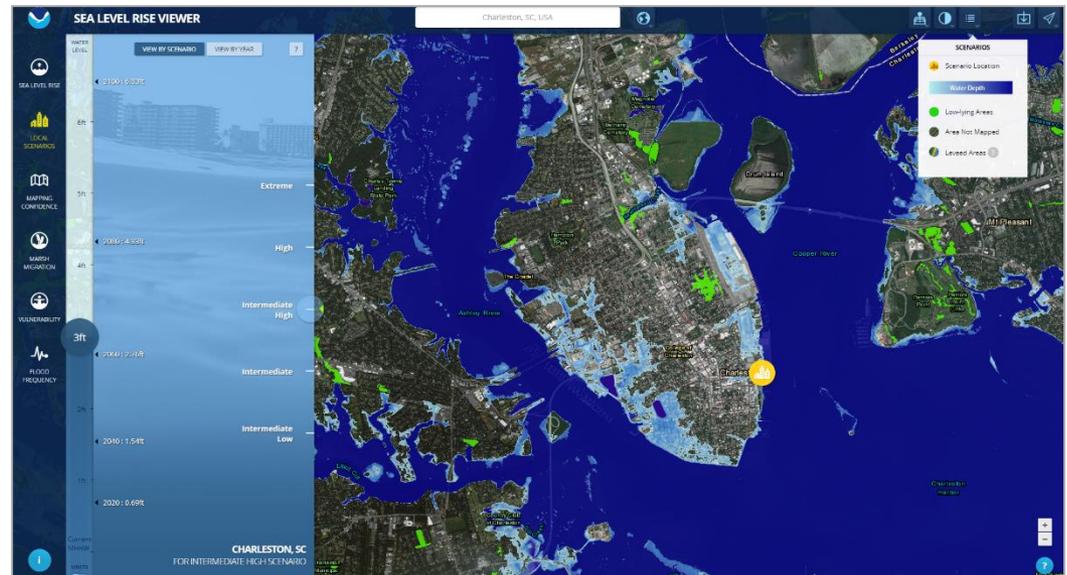
- An inventory of over 50 decision-support and information visualization tools
- Many provide visualization and analysis capabilities without need for desktop GIS software



# Digital Coast Tools

## Sea Level Rise Viewer

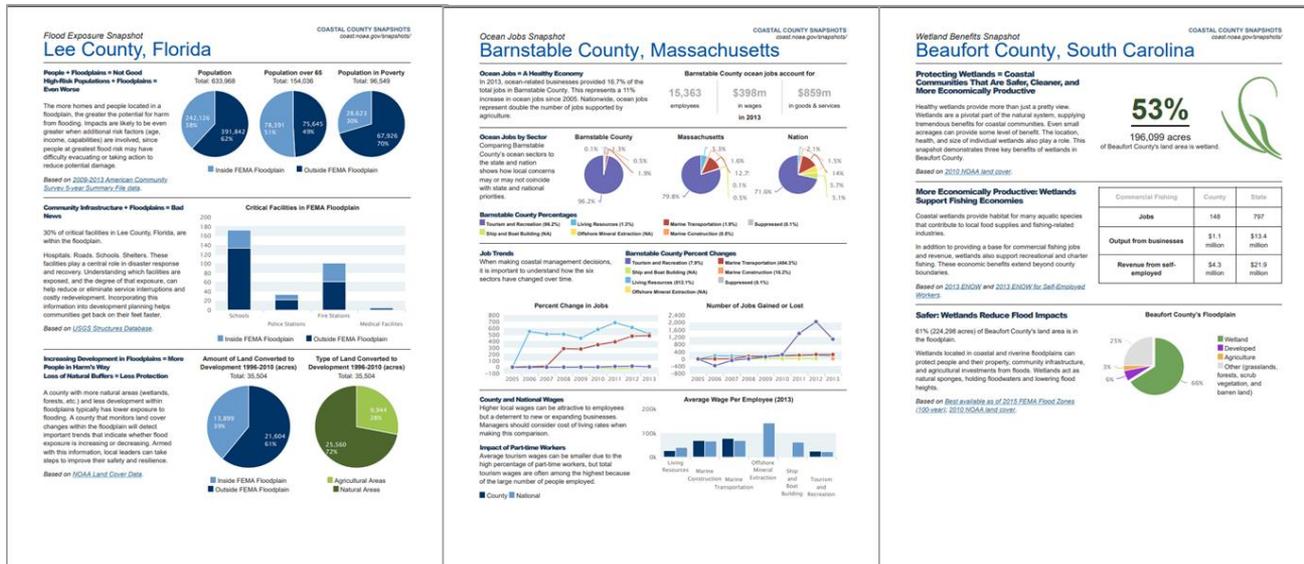
- Examine local sea level rise projections
- Integrates data on:
  - Mapping confidence
  - Marsh migration
  - High tide flooding
  - Socioeconomic impacts



# Digital Coast Tools

## Coastal County Snapshots

- Turns data into easy-to-understand handouts, complete with charts and graphs
- Optimized to print on a single sheet of paper for easy distribution



Flood Exposure

Ocean Economy

Wetland Benefits

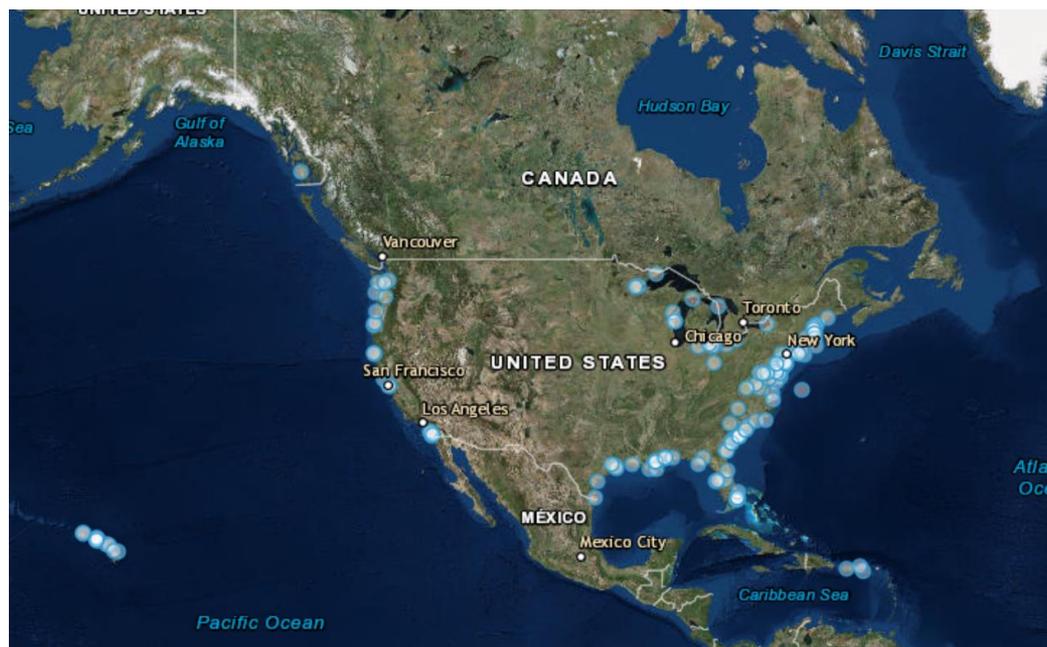
# Digital Coast Academy

- 190 learning resources covering a variety of coastal topics
- Includes:
  - Classroom and online instructor-led trainings
  - Self-guided resources
  - Case studies
  - Publications and quick references
  - Videos and webinars



# Stories from the Field

- Almost 150 narratives that demonstrate how users are applying Digital Coast resources to coastal issues
- Highlight partnerships and impact



# Partnership - Foundation

- **Why were these partners selected?**
  - *Broaden reach and understand common requirements*
- **Why only eight?**
  - *Strong relationships take time and attention*
- **What are the partner roles?**
  - *Content, evaluation, outreach, advocacy*
- **What do the partners bring?**
  - *User needs, credibility, relationships (100K+)*

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# Partnership - Mechanics

- **What documents define the partnership?**
  - *No MOUs or AOPs*
- **How is the Digital Coast funded?**
  - *NOAA base; partner funding; in-kind resources*
- **How are priorities set?**
  - *Group discussions with NOAA setting final priorities*
- **How is accountability handled?**
  - *Partners hold each other accountable; trust*

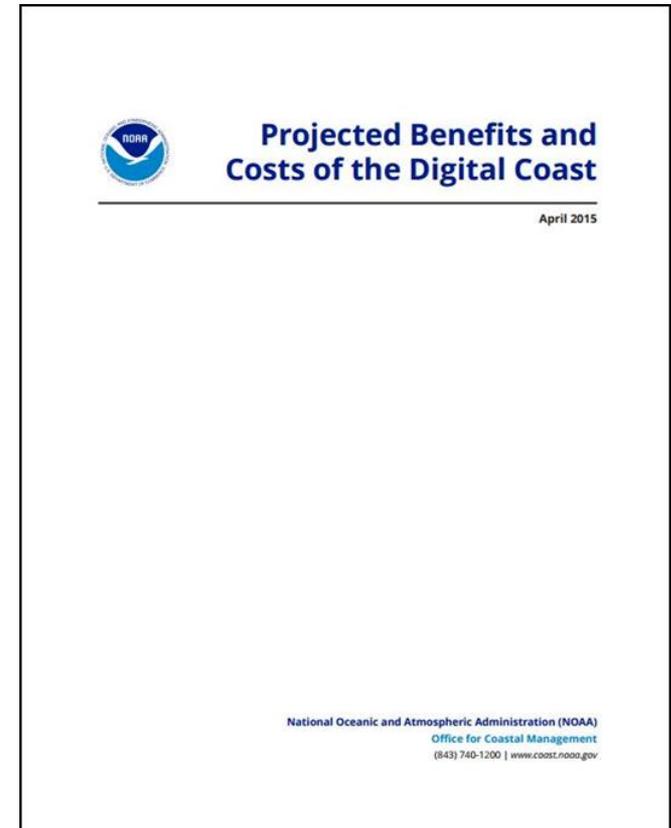
# Partnership – Success Factors

- **What are the top factors in making DC a successful partnership?**
  - *Dedicated relationship building*
  - *Diversity of perspectives and user needs*
  - *Executive leadership participation*
  - *Sense of shared ownership*
  - *Listen to the partners and take actions accordingly*
  - *Continuous engagement*



# Demonstrating Value

- In recent years, NOAA has spent approximately \$1.5 million for Digital Coast each year.
- The Digital Coast is expected to yield a net benefit of **\$117 million** by Fiscal Year 2028, equating to a return on investment of **411 percent**
- This study was the result of a NSGIC survey of Digital Coast users, which highlighted improved efficiency and increased effectiveness of their work thanks to the the platform



# Digital Coast Act

- The **Digital Coast Act of 2017 (S. 110)** was introduced by Senator Baldwin on January 13, 2017, with Senators Murkowski (R-AK), Sullivan (R-AK), and Booker (D-NJ) as cosponsors.
  - On May 25, 2017, S. 110 passed the Senate without amendment by Unanimous Consent.
- Rep. Ruppertsberger introduced the **Digital Coast Act of 2017 (H.R. 4062)** on October 12, 2017, with Rep. Young (R-AK-At Large), Crist (D-FL-13), and Esty (D-CT-5) as cosponsors.
  - It was referred to the House Committee on Natural Resources, Subcommittee on Water, Power, and Oceans on October 18, 2017.
  - The text in this bill is identical to the version of S.110 that passed the Senate.

# What's Next?

## Digital Coast Strategic Plan

### Objectives:

- Advance the Digital Coast Partnership
- Increase Availability of Core Coastal Data Sets
- Provide Actionable Decision-Support Resources
- Expand NOAA and Interagency Collaborations
- Enhance the Digital Coast Platform

### Strategic Plan for the Digital Coast 2016 to 2021

Office for Coastal Management



# Connect with the Digital Coast

*[www.coast.noaa.gov/DigitalCoast](http://www.coast.noaa.gov/DigitalCoast)*



*[Coastal.Info@noaa.gov](mailto:Coastal.Info@noaa.gov)*



*[www.facebook.com/NOAADigitalCoast](http://www.facebook.com/NOAADigitalCoast)*



*[@NOAADigCoast](https://twitter.com/NOAADigCoast)*