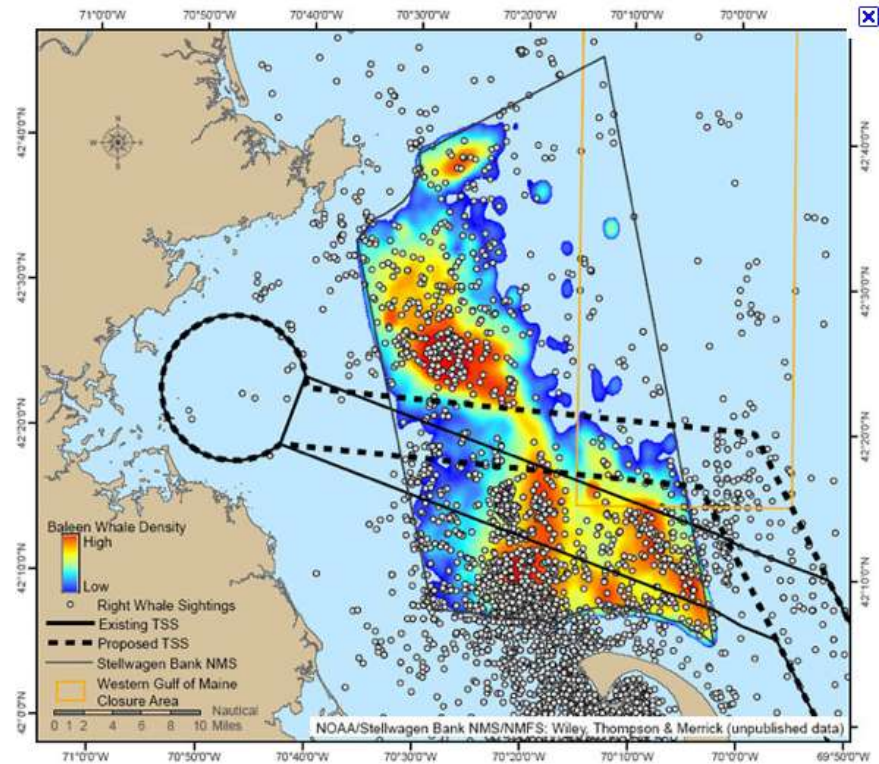


# Coastal and Marine Spatial Planning



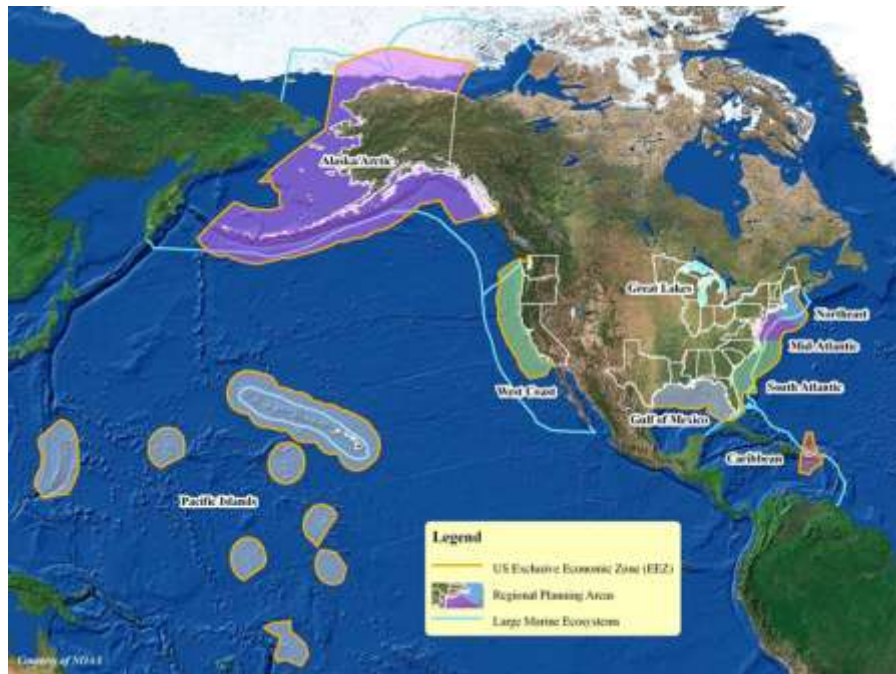
Debra Hernandez, SECOORA  
 Walter Johnson, BOEMRE  
 Ru Morrison, NERACOOS  
 Charly Alexander, IOOS Office

# Key Elements of the ICOOS Act related to CMSP

- 2009 Integrated Coastal and Ocean Observing Act
- Created a network of regional information coordination entities (aka RAs) that were:
  - designed to address regional and national needs for ocean information
  - to support national defense, marine commerce, navigation safety, weather, climate, and marine forecasting, *energy siting and production, economic development, ecosystem-based marine, coastal, great lakes resource management, public safety, and public outreach training and education*
  - work with the national system to design a data management system, based on standards and protocols, for the processing, storage, integration and dissemination of data to end users

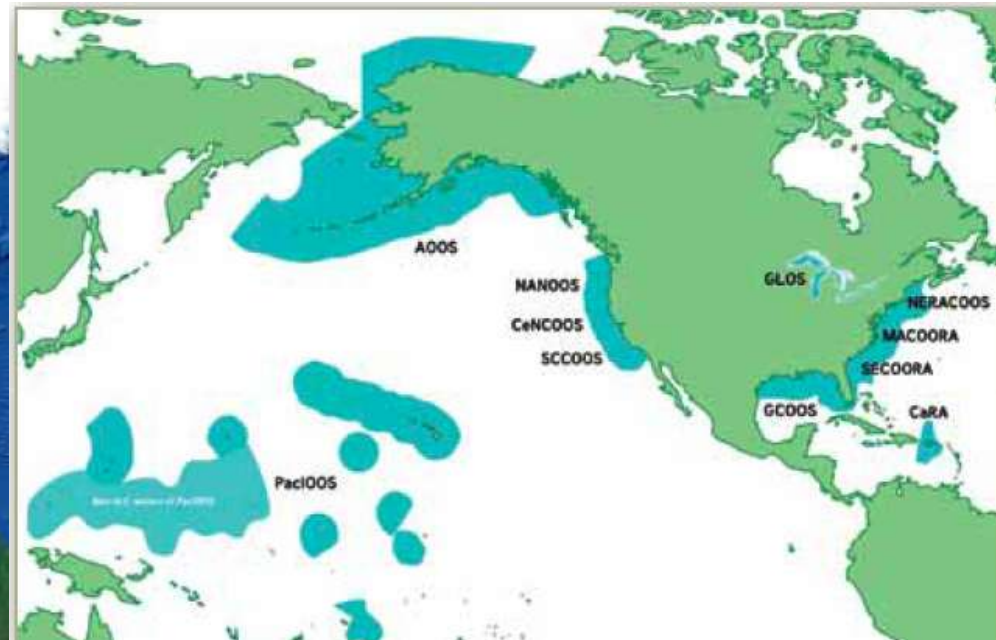
# Regional Approach

## The National Ocean Policy 9 Regional Ocean Councils



## IOOS RAs

Same geography with 11 entities (3 for the West coast versus 1 for ROC)



# Essential Elements for CMSP (From NOC)

- Identify Regional Objectives
- Identify **Existing Efforts** that Should Help Shape the Plan throughout the Process
- Engage Stakeholders and the Public at Key Points throughout the Process
- **Consult Scientists and Technical and Other Experts**
- **Analyze Data, Uses, Services, and Impacts**
- **Develop and Evaluate Alternative Future Spatial Management Scenarios and Tradeoffs**
- Prepare and Release for Public Comment a Draft CMS Plan with **Supporting Environmental Impact Analysis Documentation**
- Create a Final CMS Plan and Submit for NOC Review
- Implement, **Monitor, Evaluate**, and Modify (as needed) the NOC-certified CMS Plan

## RA Contributions

Regional data portals, data integration, data products

Technical and scientific resource for decision-makers

Model data output, forecasting ability

Synthesis and analysis

Information on the dynamic nature of the environment overtime

Monitoring for evaluation and assessment

# IOOS RA Involvement in CMSP

Regional  
Collaborations

Regional Ocean  
Governance



*Workshops*

*Energy siting*



*Integrated Data Products*

## Data Portals



# Place holder for Ru- NE MSP

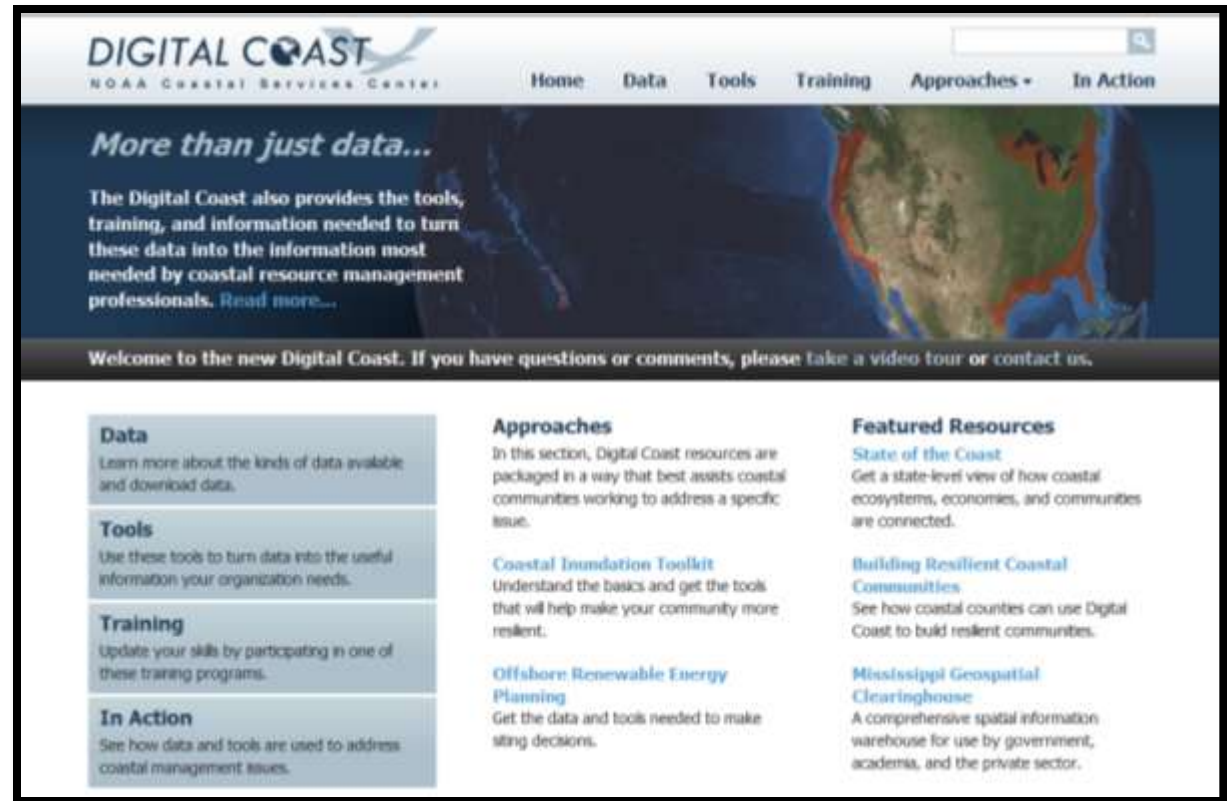
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# Place holder for Charly - IOOS Data Management

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# NOAA's Digital Coast Product

- Decision Support Tools
- Access to 30 national geospatial data sets
- Products:
  - Coastal County Snapshots
  - Inundation Tool Kit
  - Etc.
- Partners: AMA, ASFM, CSO, NACo, NSGIS, TNC



The screenshot shows the NOAA Digital Coast website homepage. At the top, the logo reads "DIGITAL COAST" with "NOAA COASTAL SERVICES CENTER" underneath. Navigation links include "Home", "Data", "Tools", "Training", "Approaches", and "In Action". A search bar is located in the top right corner. Below the navigation is a banner with the text "More than just data..." and a map of the United States. The main content area is divided into three columns: "Data", "Tools", and "Training" on the left; "Approaches" in the middle; and "Featured Resources" on the right. Each section contains brief descriptions and links to further information.

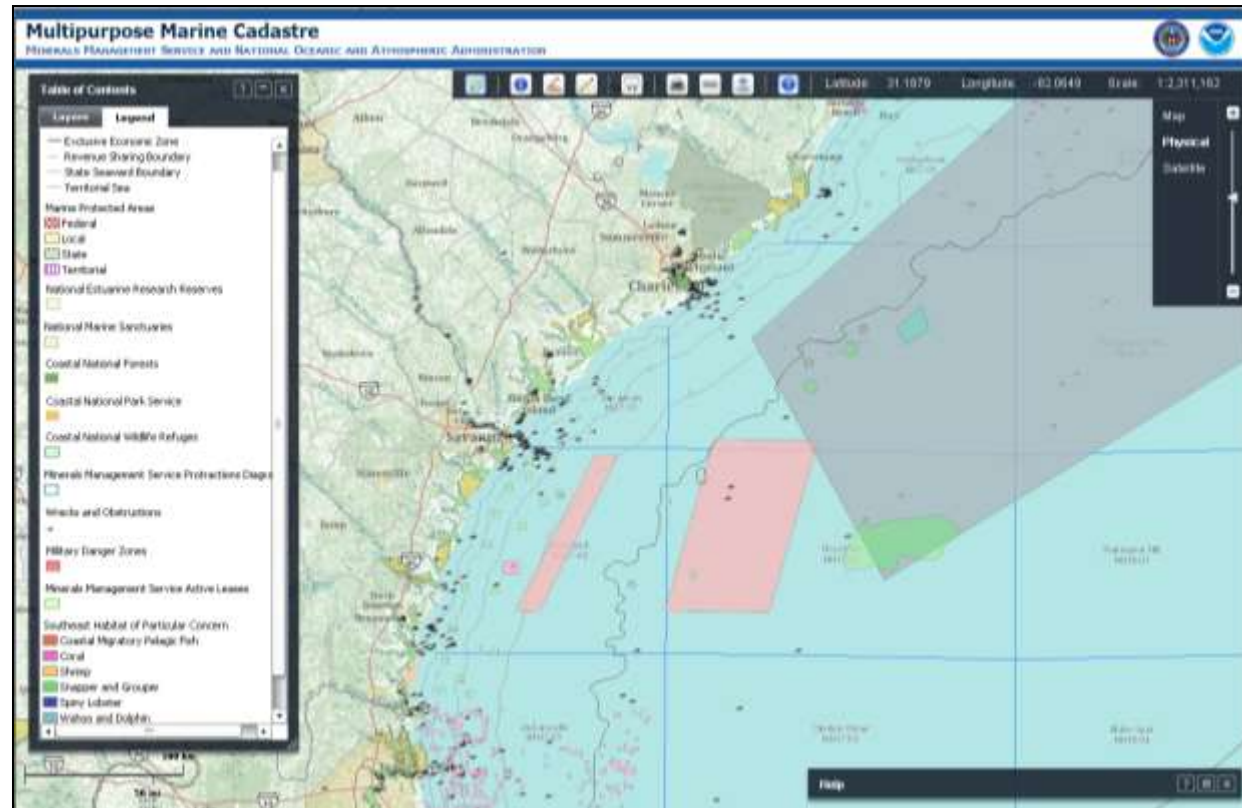
<http://www.csc.noaa.gov/digitalcoast/index.html>





# Multipurpose Marine Cadastre

- Multi-agency effort to build a GIS-based marine information system
- provides authoritative geospatial data and supporting information to inform decision making.



<http://www.csc.noaa.gov/digitalcoast/tools/mmc/index.html>

# Discussion Questions

The National Ocean Policy calls for the development of a:

- robust national information management system dedicated to coastal and marine scientific data and information products to meet the diverse data and applications requirements of CMSP.

The ICOOS Act calls for:

- a network of regional information coordination entities... designed to address regional and national needs for ocean information.... ... to support national defense, marine commerce, navigation safety, weather, climate, and marine forecasting, energy siting and production, economic development, ecosystem-based marine, coastal, great lakes resource management, public safety, and public outreach training and education

# Questions

1. What opportunities and challenges exist to utilize the IOOS system with its regional data portals to support CSMP?
2. How should IOOS link to the other information systems such as Digital Coast, the Multipurpose Marine Cadastre and other agency data systems?
3. How can IOOS data and information that tracks ocean phenomena over space and time be made easily accessible to CMSP efforts?