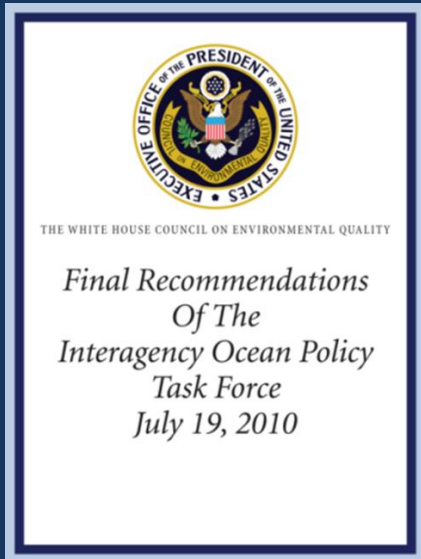


The U.S. National Ocean Policy: A Data Perspective

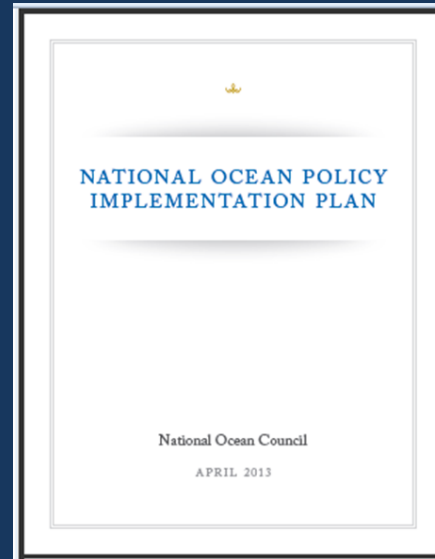
Jonathan Andrechik
Office of Science and Technology Policy
Executive Office of the President
4 February 2014

Policy Context

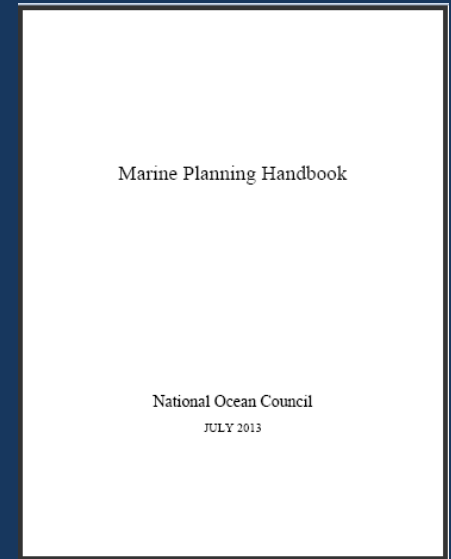
Executive Order
July 2010



Implementation Plan
April 2013



Marine Planning
Handbook
July 2013



The National Ocean Policy introduced a framework for regional marine planning.



Marine Planning as Part of the National Ocean Policy

- Marine planning is a science- and information-based process that a region can use to address specific management challenges associated with, for example:
 - multiple uses of the ocean, coasts, and Great Lakes;
 - economic and energy development priorities; and
 - conservation objectives.
- To develop marine plans, representatives from Federal, state, and tribal governments work together, publicly and transparently, as a regional planning body (RPB).



Planning Regions



Pacific Islands

Alaska/Arctic

West Coast

Great Lakes

Northeast


Mid-Atlantic

South Atlantic

Gulf of Mexico

Caribbean

Legend

- US Exclusive Economic Zone (EEZ)
-  Regional Planning Areas
- Large Marine Ecosystems

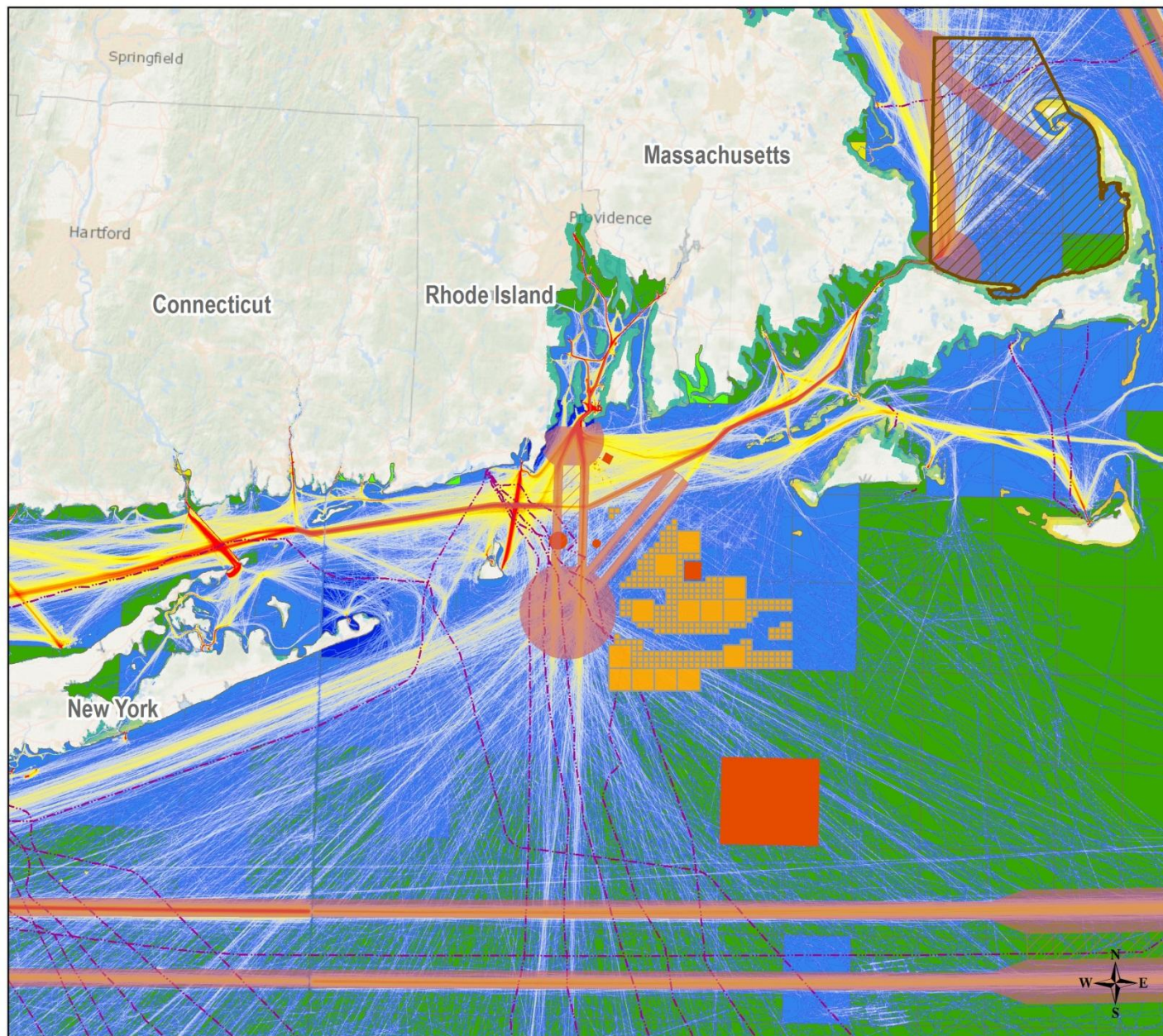
Regional Planning Areas have been approximated for illustrative purposes only and should not be construed as a legal or official boundary of any kind.

Marine Planning as Part of the National Ocean Policy

- The scope, scale, and content of marine planning is defined the regions to solve problems that they care about in ways that reflect their interests, capacity to participate, and ways of doing business.
- *Marine Planning Handbook* strikes a balance between regional flexibility and national consistency.
- One commonality across the regions is the need for...



- Wind Speed
- Submarine Cables
- Unexploded Ordnance
- Shipping Lanes
- Right Whale Critical Habitat
- Recreational Fishing (Trips)
- Commercial Fishing (Trips)
- Commercial Vessel Density
- RI & MA Wind Energy Planning Areas



Open Data Policy

- Part of President Obama's Open Government Initiative (started in 2009)
- Executive Order of May 2013 requires Federal agencies to make unrestricted data publicly available and machine readable
- Federal government data will be harvested into the data.gov catalog



www.data.gov



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The home of the U.S. Government's open data

Here you will find data, tools, and resources to conduct research, develop web and mobile applications, design data visualizations, and more.

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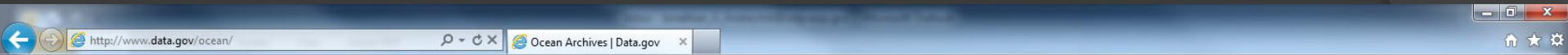
Ocean.data.gov - Background

- **2010** – National Ocean Policy (EO 13547) calls for a national information management system (NIMS) to support marine planning
- **2011** – NIMS interagency working group decides to establish the Ocean Community of data.gov (ocean.data.gov) to serve as the NIMS
- **2011-2013** – Interagency technical team builds ocean.data.gov; NOC Data & Info Working Group reconstituted in 2013 to define work plan / direction going forward
- **2014** – New version of data.gov launched 13 JAN

Ocean.data.gov

- ⦿ National portal maintained by National Ocean Council agencies
- ⦿ Currently includes data to support marine planning
- ⦿ Scope recently expanded to include all ocean, coastal, and Great Lakes data as a resource for the public and private sector

Ocean.data.gov Landing Page



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OCEAN

[Updates](#) [Data](#) [Tools](#) [Technical Guide](#) [Map Gallery](#) [Regional Planning](#) [Feedback](#)

Data, resources and tools to find out more about our oceans, coasts and Great Lakes.

HIGHLIGHTS

MarineCadastre.gov



MarineCadastre.gov is a joint Bureau of Ocean Energy Management (BOEM) and National Oceanic and Atmospheric Administration (NOAA) initiative that provides authoritative data to meet the needs of the offshore energy and marine planning communities. The website provides access to authoritative data from multiple agencies, including offshore boundaries and physical, biological, ocean use, and cultural information. Users can create, view, and print maps from this free, easy-to-use viewer, or can directly link to the web map services through their own GIS applications.

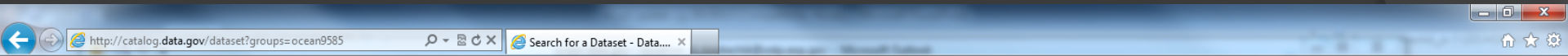
[View this Dataset](#)

UPDATES

[NOAA View: oceans, land, atmosphere, cryosphere and climate at your fingertips](#)

December 12, 2013

Ocean.data.gov Data Page



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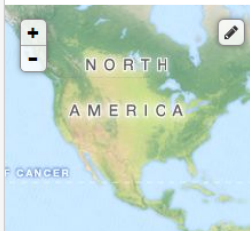
[Interactive Datasets](#)

Federal datasets are subject to the U.S. Federal Government [Data Policy](#). Non-federal participants (e.g., universities, organizations, and tribal, state, and local governments) maintain their own data policies. Data policies influence the usefulness of the data.

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Map data CC-BY-SA by [OpenStreetMap](#)
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usgs (75)

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imagerybasemaps (73)

405 datasets found

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Coastwatch 🔥

National Oceanic and Atmospheric Administration, Department of Commerce — NOAA CoastWatch was established in 1987 in response to two significant environmental events. A Harmful Algal Bloom (HAB) event occurred off the coast of North...

[hdf](#), [geotiff](#), [png](#), [shapefile](#)

Federal

Climate Data Online (CDO)

National Oceanic and Atmospheric Administration, Department of Commerce — Climate Data online or CDO provides access to climate data products through a simple, searchable online web mapping service. Users can find a variety of NCDC...

[gif](#)

Federal

Shipping Lanes in U.S. Waters

National Oceanic and Atmospheric Administration, Department of Commerce — The GIS REST service for "Shipping Lanes in U.S. waters" provides raster maps of the Shipping Lanes is a term used to indicate the general flow of merchant shipping...

[Esri REST](#) [Esri REST](#)

Federal

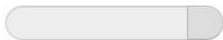
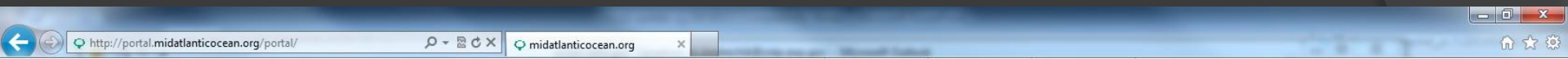
Federal Outer Continental Shelf Oil and Gas Production Statistics - Gulf of

Federal

Next Steps – Ocean.data.gov


- Improve discoverability and accessibility of data and tools
- Expand catalog to include more ocean, coastal, and Great Lakes data and tools
- Continue to respond to data needs of the marine planning community
- Contribute to the development of standard classification/taxonomies for ocean data
- Highlight uses cases
- Address governance concerns
- Coordinate with regional data portal efforts

Mid-Atlantic




LEARN

Understand the range of regional ocean planning needs.



EXPLORE

Access our current data and see future information needs.



VISUALIZE

Launch our Marine Planner mapping application along with other maps and tools

CONTACT US

portal@midatlanticocean.org
732-263-5392

CONNECT WITH US

Northeast



NORTHEAST OCEAN DATA

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Maps and data for ocean planning in the northeastern United States



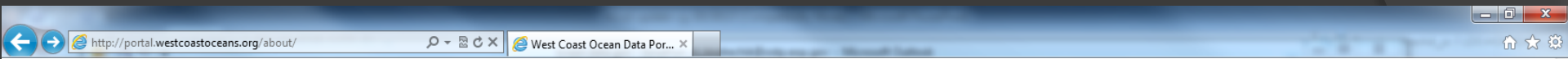
MAP OF THE MONTH

[Recreational Boating Routes](#)
Data from the 2012 Northeast Recreational Boater Survey. Participants mapped their routes using an interactive mapping tool.

NEWS

[Northeast Ocean Data Releases Maps of Commercial Fishing Activity](#)
[Updated Maps of Ocean Energy Resources, Projects, and Infrastructure](#)
[Upgrades to Northeast Ocean Data's Interactive Maps](#)

West Coast



A project of the [West Coast Governors Alliance on Ocean Health](#)

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ABOUT THE PORTAL

The West Coast Ocean Data Portal is a project of the West Coast Governors Alliance on Ocean Health (WCGA) to increase discovery and connectivity of ocean and coastal data and people to better inform regional resource management, policy development, and ocean planning. The Portal will inform priority West Coast ocean issues such as tracking sources and patterns of marine debris, adaptation to sea-level rise, understanding impacts of ocean acidification on our coasts, and marine planning.

Learn More

To learn more about the Portal, get updates, contribute your data, join the Network, or provide feedback, please visit the [West Coast Ocean Data Portal Action Coordination Team](#) page and sign up for the [Network email list](#) or contact the project coordinator [Todd Hallenbeck](#).

The Portal links existing data systems together to provide an easy to use gateway to discover ocean and coastal data. Coastal decision-makers, researchers, and stakeholders use the Portal to access data and decision-support tools they need to understand and address high-priority regional

SENTINEL ROCKS ON THE WASHINGTON COAST



South Atlantic



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Renourishment**
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LEARN

Understanding the range of regional ocean planning needs

EXPLORE

Access our most current data

VISUALIZE

Launch our map and tools

Providing regional coastal and ocean planning tools to support the Governors!

LEARN MORE ABOUT US

GET IN TOUCH

OUR PARTNERS

Please email inquiries about the GSAA Portal to the regional information

When it comes to U.S. MSDI, coordination is critical...

- Federal Geographic Data Committee (FGDC)
- U.S. Group on Earth Observations (GEO)
- Interagency Ocean Observation Committee (IOOC) & U.S. Integrated Ocean Observing System (IOOS)
- Interagency Working Group on Ocean & Coastal Mapping
- Open Data Initiatives
- National Ocean Council (ocean.data.gov)
- and more!