

Virginia Ocean Planning



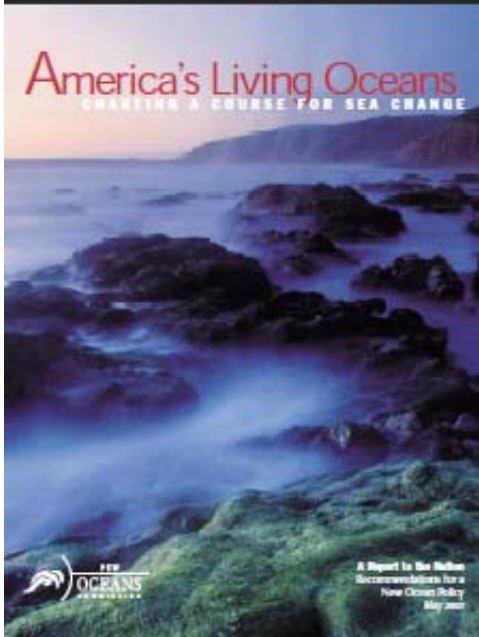
Laura McKay



Virginia Coastal Zone
MANAGEMENT PROGRAM

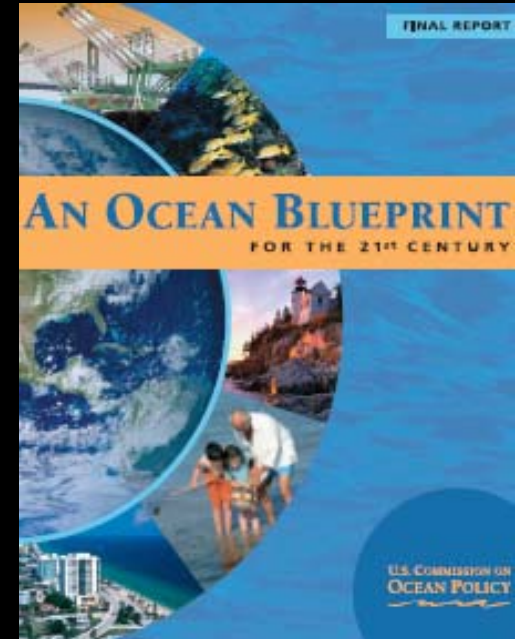


Why Ocean Planning?



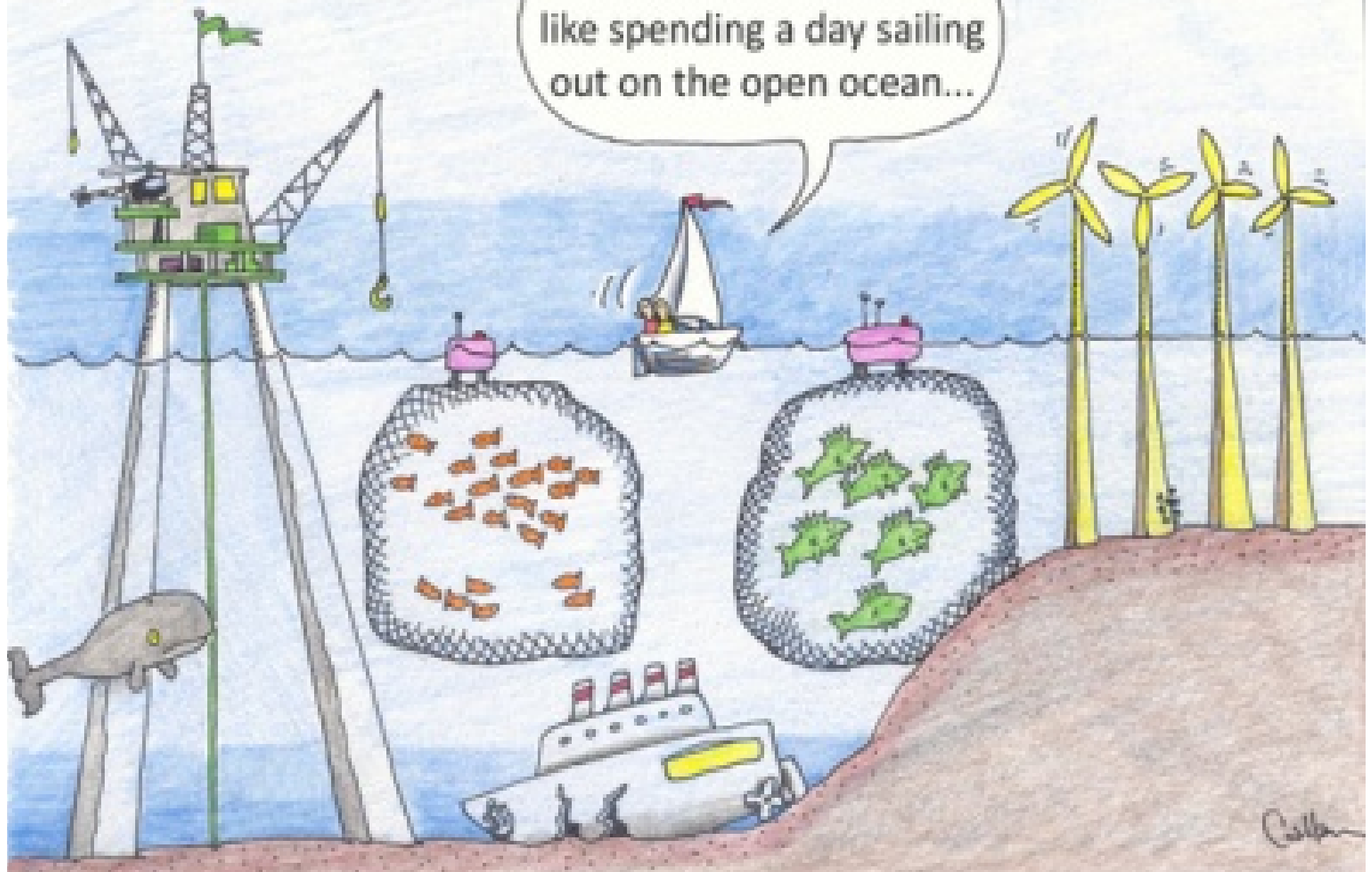
Pew Ocean Commission
2003

US Ocean Commission
2004



- Increasing pressures & uses
- Decreasing habitats and resources
- Lack of sense of stewardship
- Only federal agencies bear responsibility
- Call for states to form regional governance

Ahhh...
There's nothing quite
like spending a day sailing
out on the open ocean...



Callan

What is Regional Ocean Planning?

A regionally-based public planning process for stakeholders to analyze current and anticipated uses of ocean in order to:

- Minimize conflicts between users
- Facilitate compatible ocean activities
- Preserve ecosystem health to meet economic, security, societal, and ecological goals.



Regional Ocean Partnerships



- New England Regional Ocean Council (NROC)
- Mid-Atlantic Regional Council on the Ocean (MARCO)
- South Atlantic Governors' Alliance (SAGA)
- Gulf Mexico Alliance (GOMA)
- West Coast Governors' Alliance (WCGA)

Mid-Atlantic Regional Council on the Ocean (MARCO)

- June 2009 the five governors signed the Mid-Atlantic Ocean Governors' Agreement on Ocean Conservation
- December 2009 held Stakeholder Conference in New York



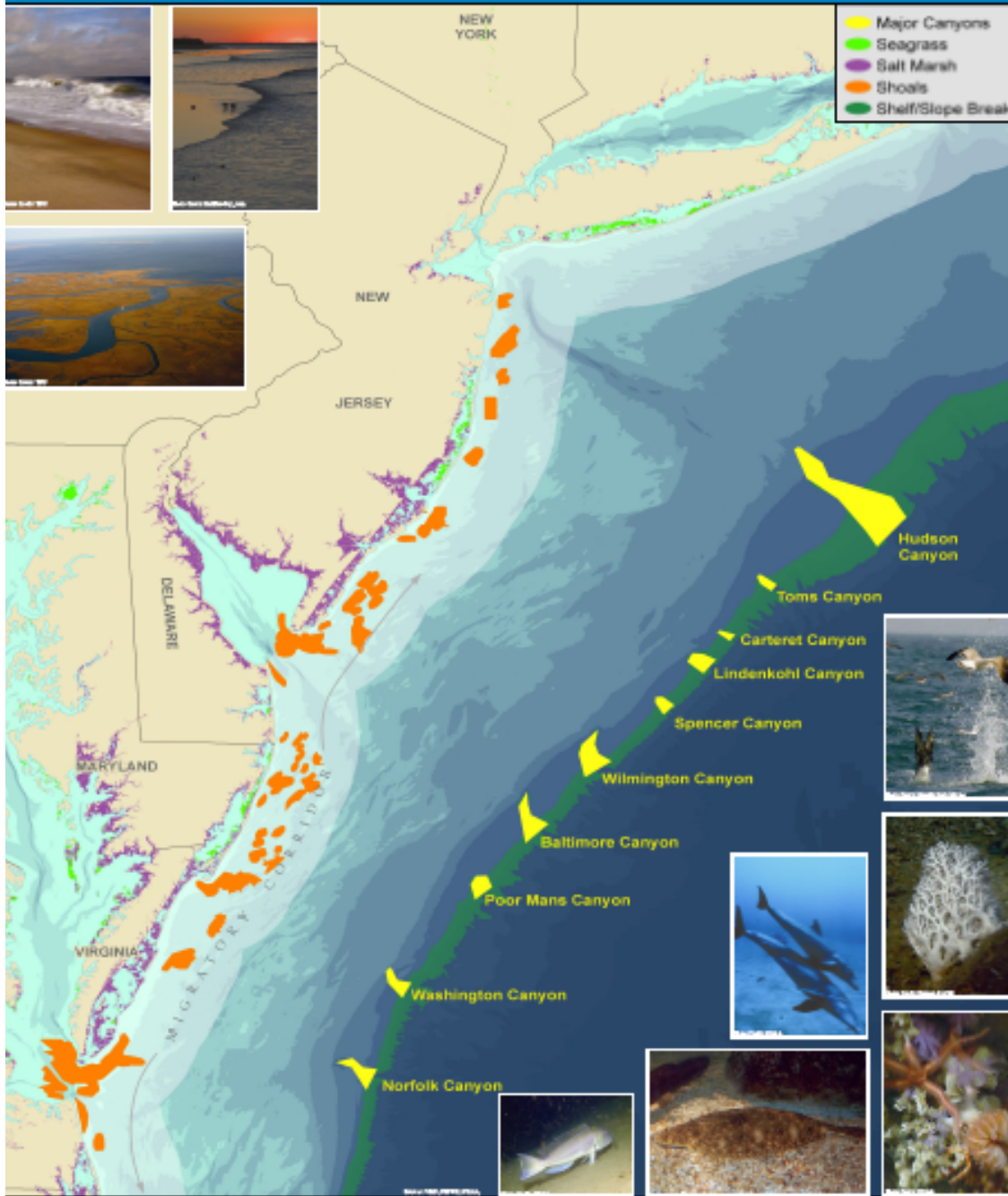
MARCO Structure

Five Action Teams:

1. Offshore Habitats
Lead: NY – Greg Capobianco
2. Water Quality
Lead: MD – Sarah Lane
3. Climate Change and Coastal Resiliency
Lead: DE – Sarah Cooksey
4. Offshore Renewable Energy
Lead: MD – Gwynne Schultz
5. Ocean Planning (previously CMSP)
Lead: VA – Laura McKay



Mid-Atlantic Ocean - Habitats

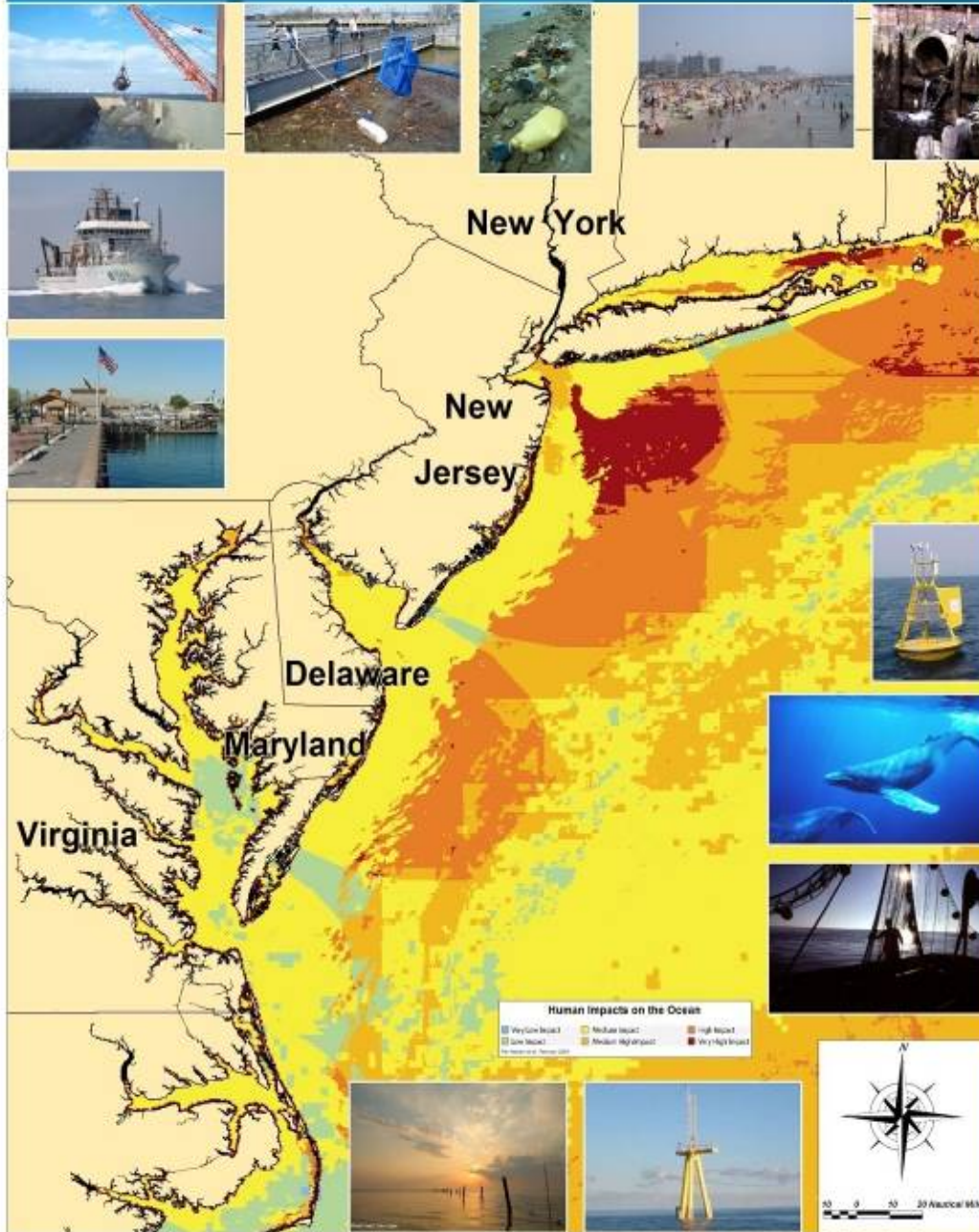


1. Protect Key Ocean Habitats

- Canyons
- Corals
- Corridors (migration) & habitats
 - Birds
 - Marine mammals
 - Sea turtles
 - Fish

Looking at data gaps and coverage across the region – many studies now underway

Mid-Atlantic Ocean - Water Quality



2. Improve Water Quality

MARCO is evaluating opportunities to address marine debris

- Marine Debris Summit in Feb 2013 at VA Aquarium

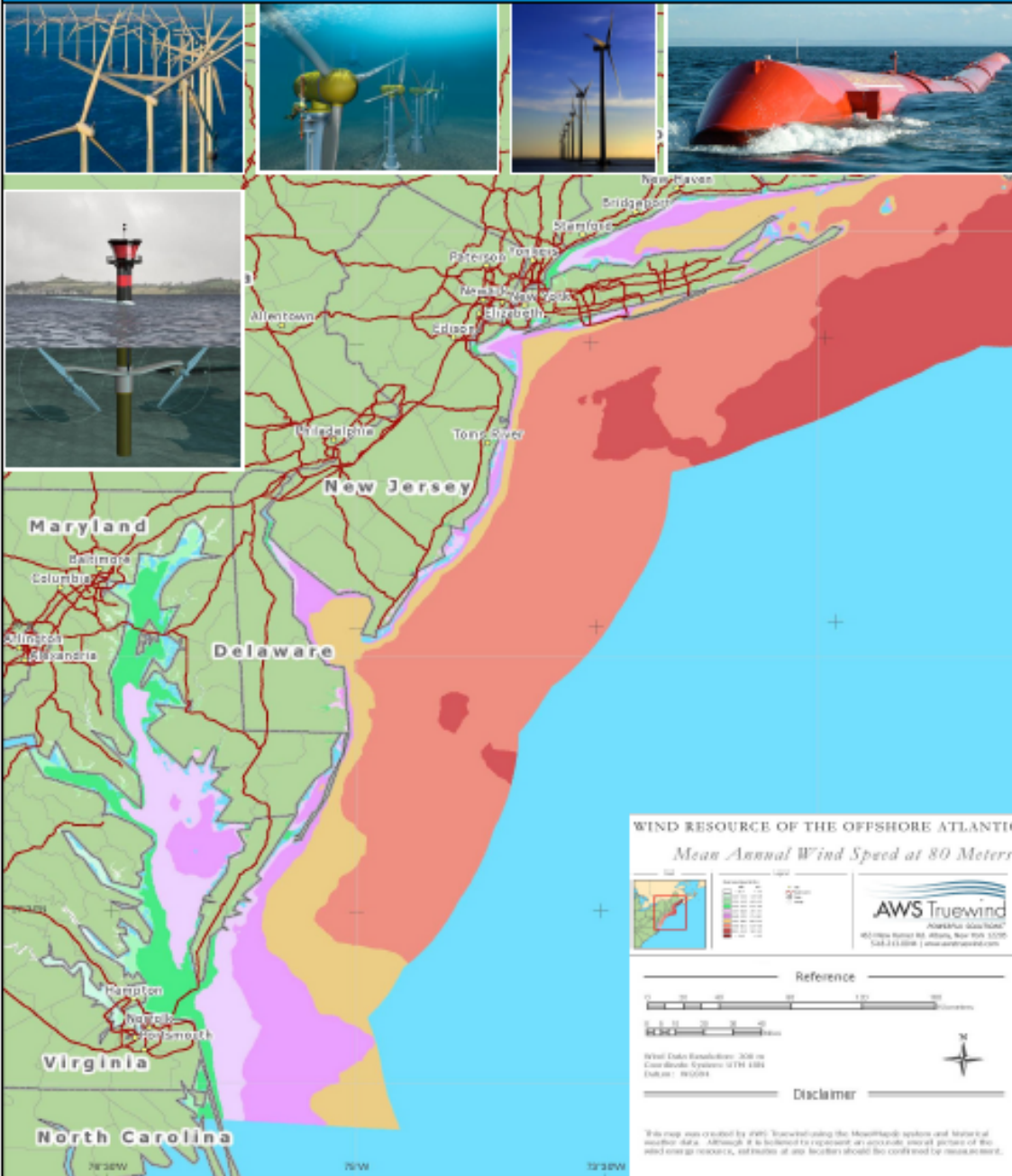
3. Adapt to Climate Change

Regional inventory of existing LiDAR coverage is complete

Digital Coast Regional SLR Viewer for Mid- Atlantic is almost complete



Mid-Atlantic Ocean - Renewable Energy



4. Promote Renewable Offshore Energy

MARCO coordinating federal consistency approaches across Mid-Atlantic states

VA Wind Energy Task Force

First Meeting December 2009

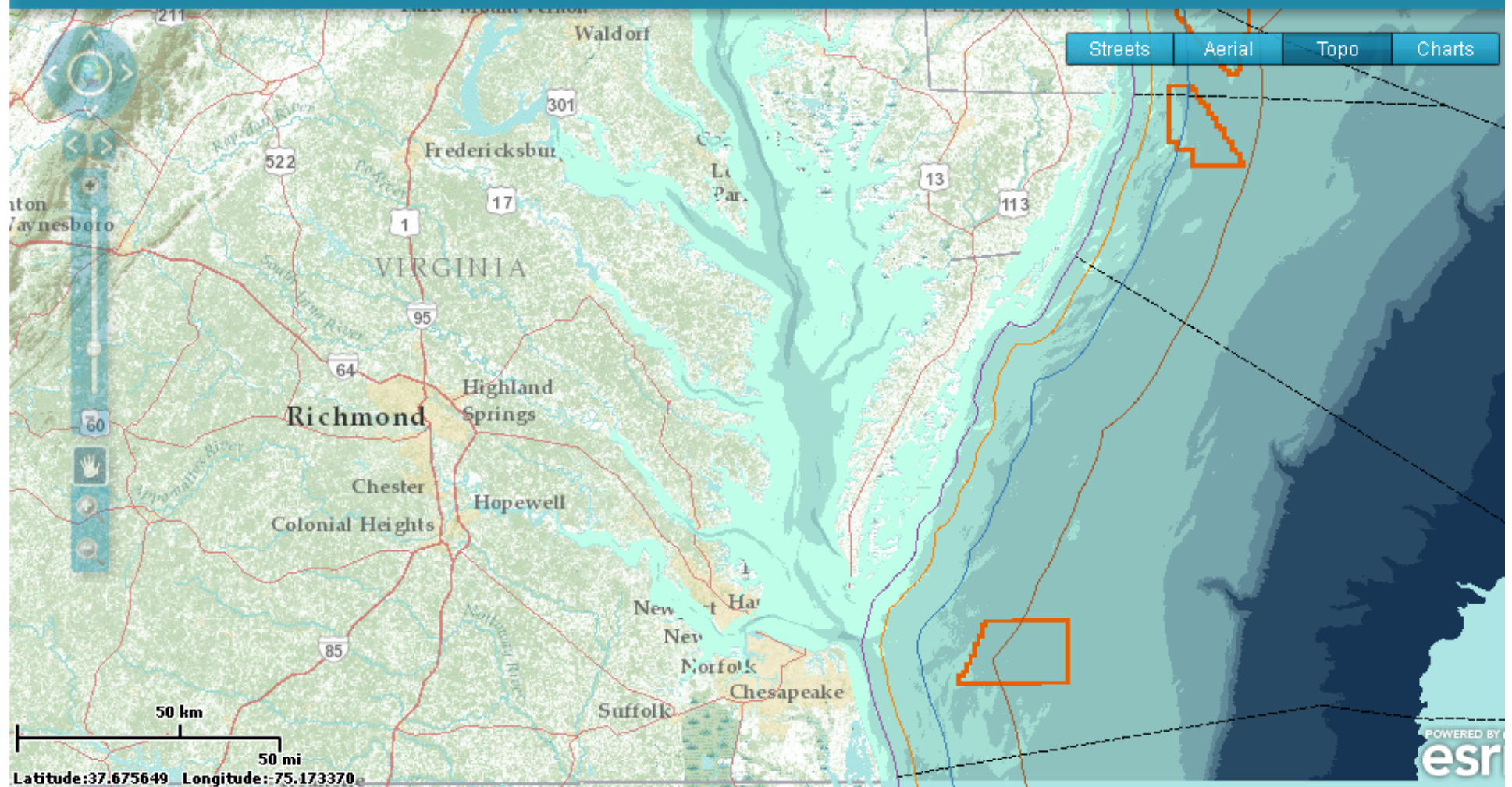
Mid-Atlantic Regional Council on the Ocean (MARCO)

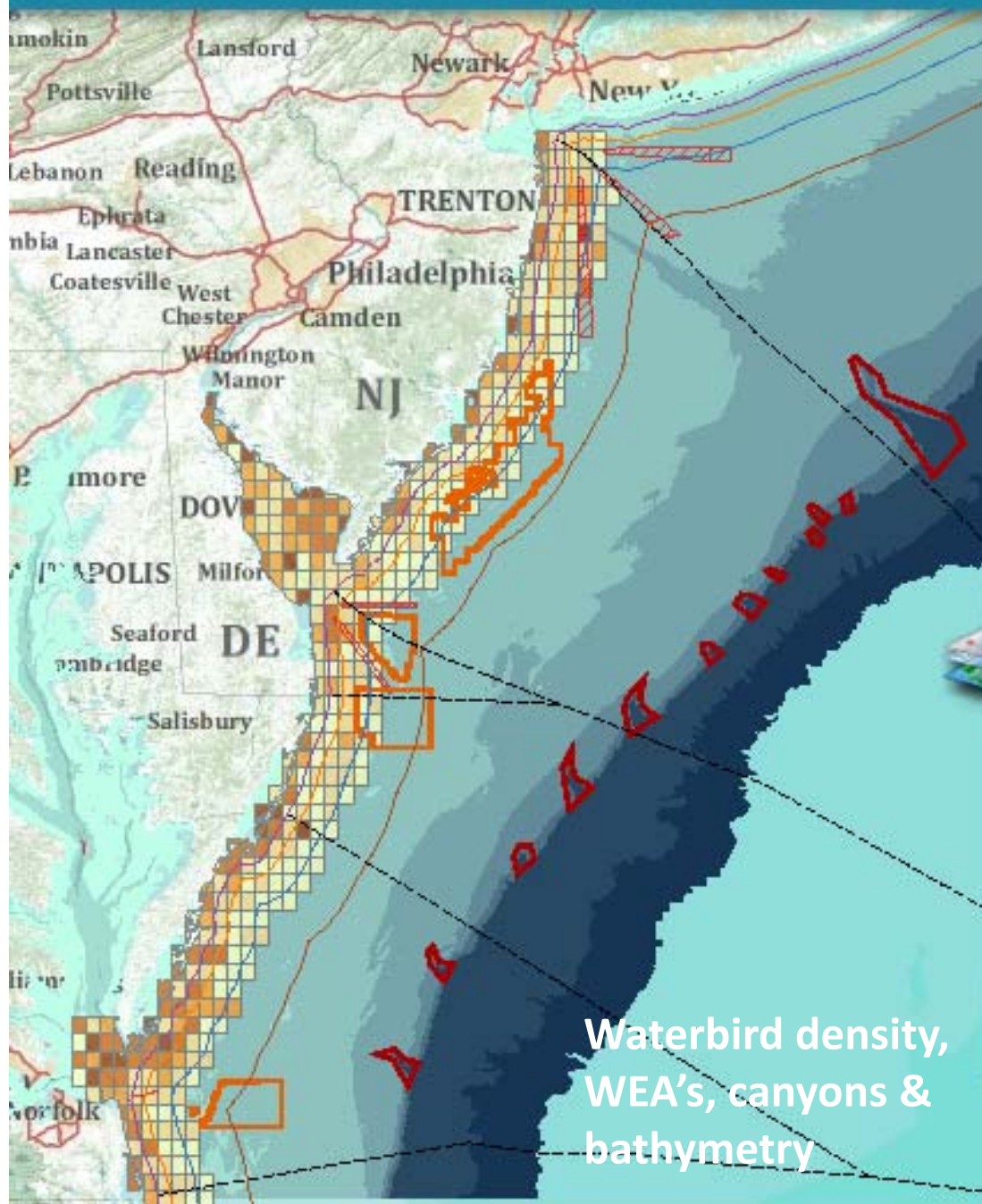
Page Safety Tools

MARCO Mapping and Planning Portal



Help





5. Ocean Planning

MARCO launched first in the nation regional portal in December 2010

6 data categories and ~30 data layers with user-friendly fact sheets

Stakeholder engagement plan being developed through ROP grant from NOAA to Monmouth U Group

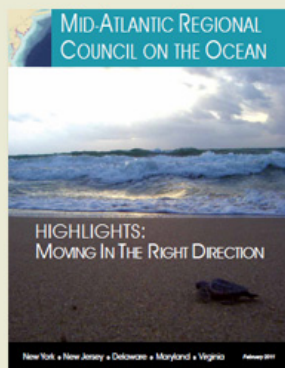
Mid-Atlantic Regional Council on the Ocean

New York New Jersey Delaware Maryland Virginia



[Home](#) | [Agreement](#) | [Documents](#) | [State Links](#) | [MARCO Portal](#) | [Contact Us](#)

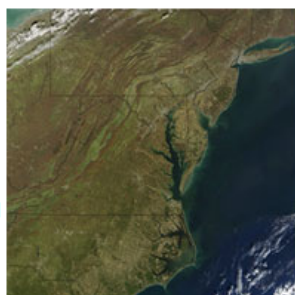
MARCO Highlights - Moving in the Right Direction



Since the first conversations among the States in 2008, MARCO has made significant progress in establishing and embarking on a regional agenda

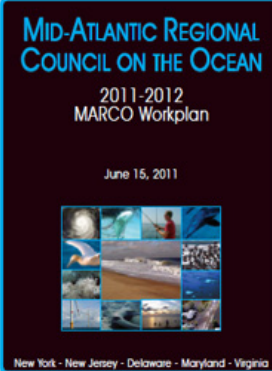
What is the Mid-Atlantic Regional Council on the Ocean?

The ocean waters of the Mid-Atlantic, stretching from New York to Virginia, provide a wealth of economic and environmental services to local communities, States, and the nation. At the same time, the people of the Mid-Atlantic region are a significant force that influences our ocean and coastal environment. We change the coastline and watershed through our buildings and development, we harvest the ocean's resources through increasingly efficient means, and we rely on offshore waters to support diverse activities such as maritime commerce and recreation. As the intensity of these human influences has increased, they have at times led to significant threats to the health of our ecosystems. Now our ocean and coastal resources face a new generation of challenges, and these challenges are only growing in their urgency.



To successfully address these challenges, and to ensure that future generations can enjoy healthy and productive ocean ecosystems, the Governors of New York, New Jersey, Delaware, Maryland and Virginia

2011-2012 MARCO Workplan



The 2011-2012 MARCO Workplan describes the actions that will be completed by MARCO's five issue Action Teams. Click the thumbnail above to view the Workplan.

Governors

Martin O'Malley
Governor, Maryland
Andrew Cuomo
Governor, New York
Chris Christie
Governor, New Jersey
Jack A. Markell
Governor, Delaware
Robert F. McDonnell
Governor, Virginia



quality of life and economic vitality of our region's communities well into the future.

[Mid-Atlantic Governors' Agreement on Ocean Conservation](#) (June, 2009)

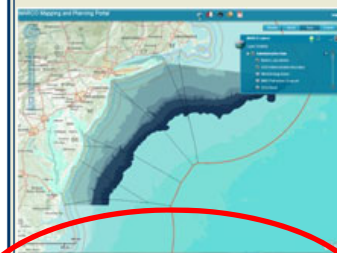
[Actions, Timelines, and Leadership to Advance The Mid-Atlantic Governors' Agreement on Ocean Conservation](#) (August, 2009)



Regional Photo Courtesy of Jacques Desloittres, MODIS Rapid Response Team

MARCO Website

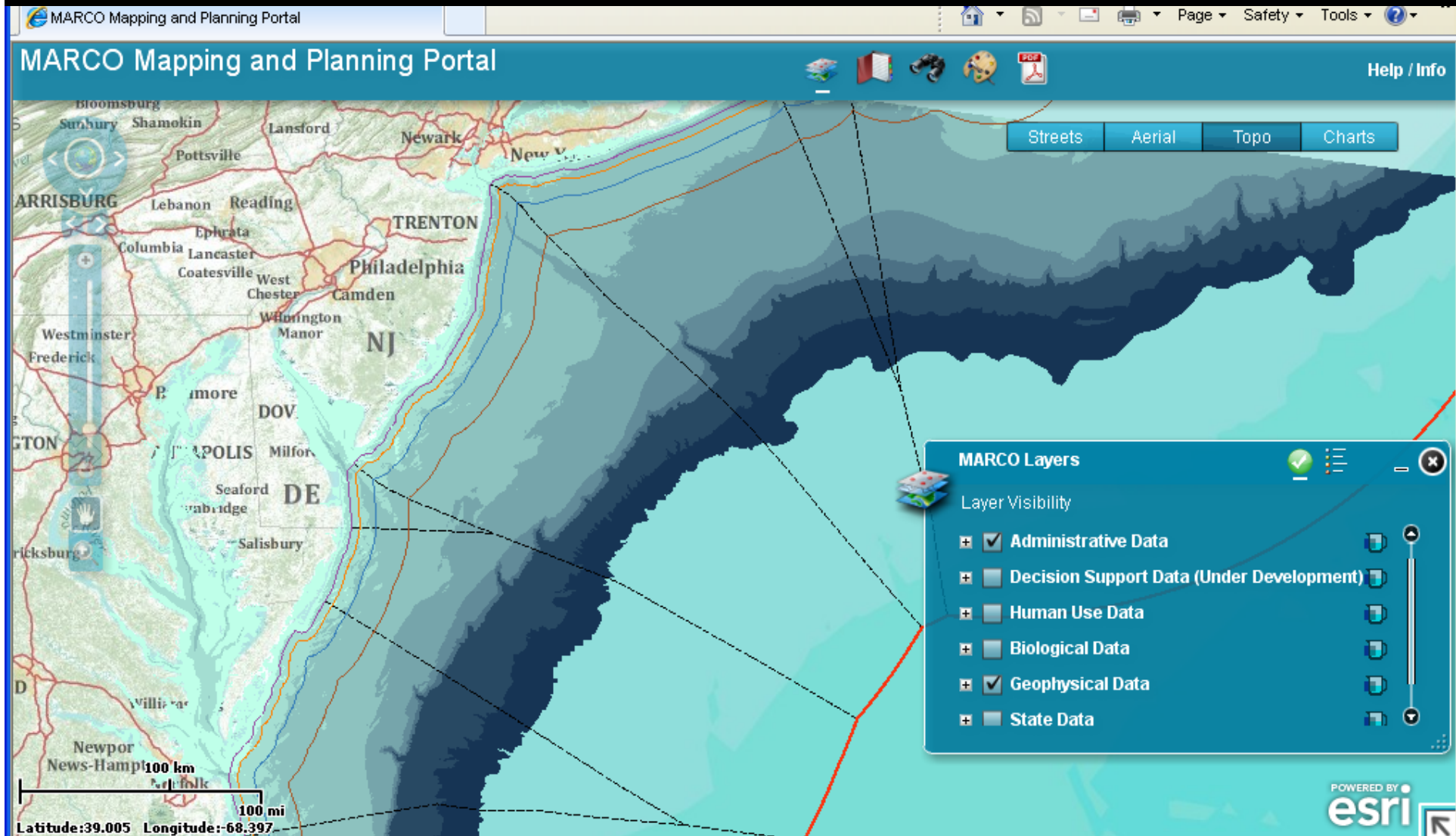
MARCO Announces New Mapping and Planning Portal for Mid-Atlantic Region



The [MARCO Mapping and Planning Portal](#) is an online tool that allows state, federal, and local decision-makers and the public to visualize, query, map, and analyze ocean and coastal data in the Mid-Atlantic region. The Virginia Coastal Zone Management Program provided funding (through their CZM Award from the National Oceanic and

MARCO Mapping & Planning Portal

Available at www.midatlanticocean.org



Monmouth Team

ROP Grant from NOAA

Portal Enhancements

June 2012

- Additional data acquisition and viewing functions
- NOAA and MARCO review

July 2012

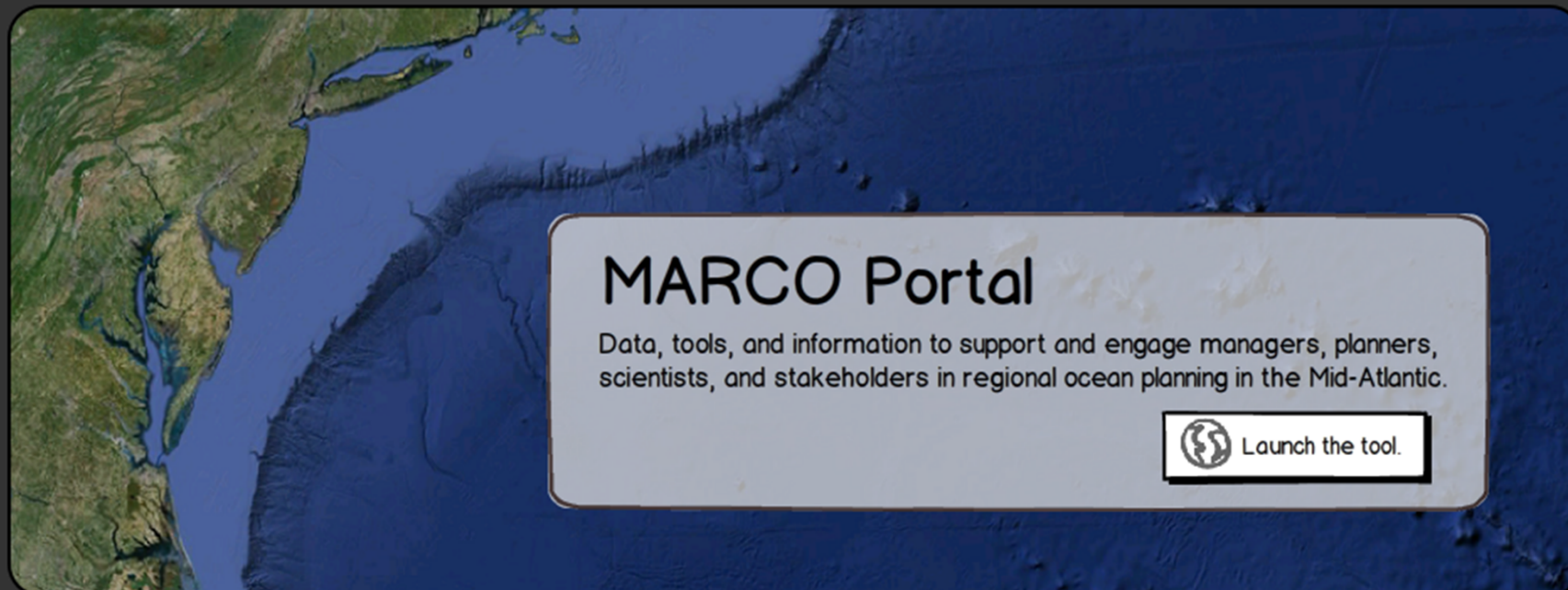
- New website version launched
- More data
- Viewable sector-specific parameters and spatial filters

December 2012

- More data
- More spatial filters
- Ability to design/ analyze areas and generate reports

June 2013 - Final Portal

- Peer reviewed
- All stakeholder data incorporated
- Improved feature and functions

[Home](#)[About](#)[News](#)[Data](#)[Tools](#)

MARCO Portal

Data, tools, and information to support and engage managers, planners, scientists, and stakeholders in regional ocean planning in the Mid-Atlantic.

[Launch the tool.](#)

News

This page brings you the latest news relevant to the MARCO Portal planning process and website.

[read more](#)

Data

This page offers access to our [Data Catalog](#) and links to other sites offering data downloads and services.

[read more](#)

Tools

This page provides links to various maps and tools created and used by MARCO partners and participants.

[read more](#)

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Data Layers

Mid-Atlantic

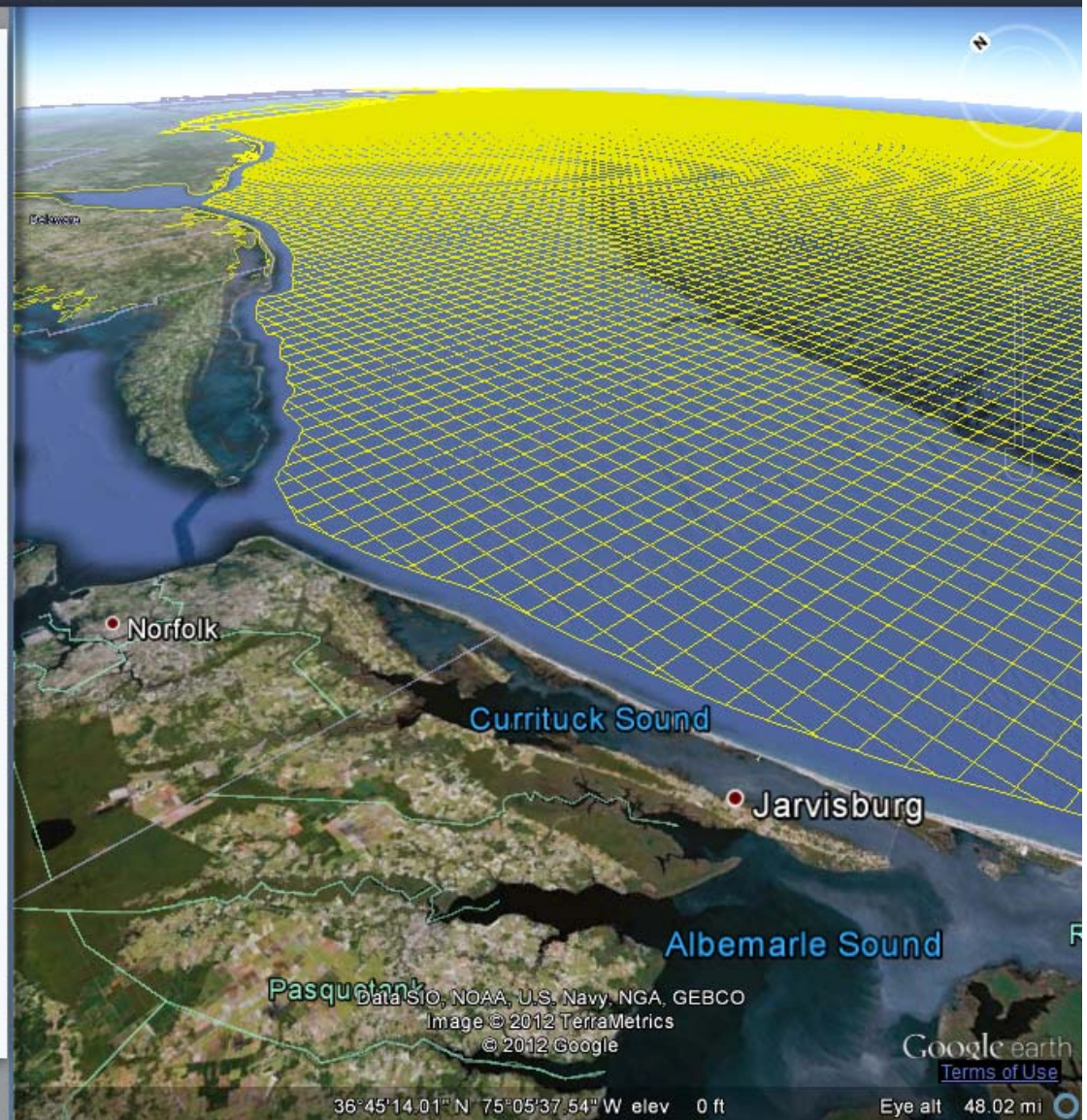
- ▼ ☒ Administrative
 - ▼ ☒ Boundaries
 - ☐ Graticules
 - ▶ ☐ BOEM Protraction Diagram
 - ▶ ☐ OCS Administrative Boundaries
 - ▶ ☐ Mineral Management Service Jurisdictions
 - ▼ ☒ Mineral Management Service Blocks
 - ☒ [MMS Blocks](#)

Management

- ▶ ☐ Biological
- ▶ ☐ Geophysical
- ▶ ☐ Human Use

Google Earth Layers

- ☐ Roads
- ☒ Borders and Labels
- ☐ 3d Buildings
- ☐ Low Resolution 3d Buildings



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Data Layers

Mid-Atlantic

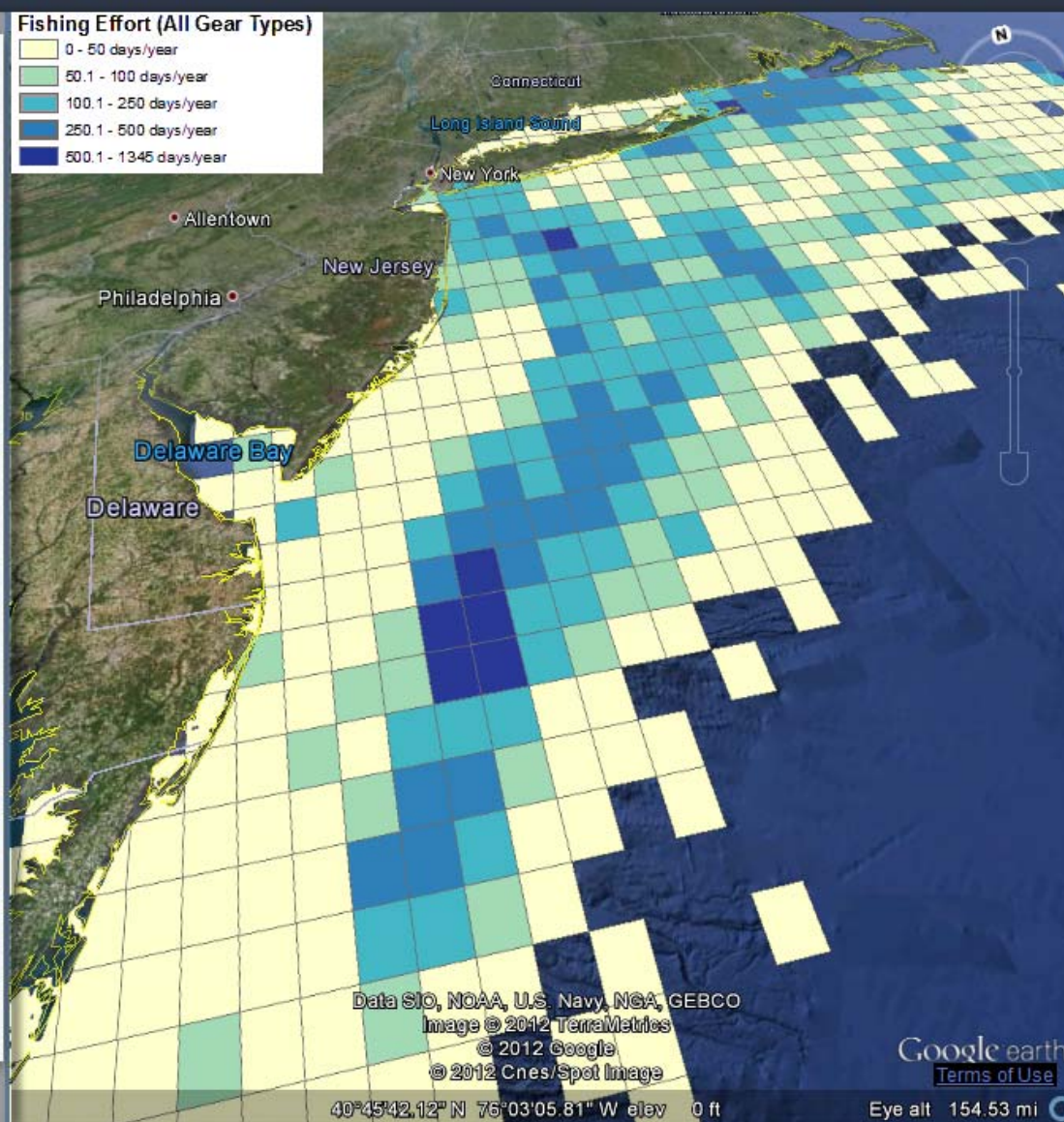
- ▶ ☐ Administrative
- ▶ ☐ Biological
- ▶ ☐ Geophysical
- ▼ ☒ Human Use
 - ▶ ☐ Submarine Cables
 - ▶ ☐ Ship Traffic
 - ▼ ☒ Fishing Effort
 - ▶ ☒ All Gear Types
 - ▶ ☐ Bottom Gear Types
 - ▶ ☐ Pelagic Gear Types
 - ▶ ☐ Summer Flounder Landings

Google Earth Layers

- ☐ Roads
- ☒ Borders and Labels
- ☐ 3d Buildings
- ☐ Low Resolution 3d Buildings

Fishing Effort (All Gear Types)

- 0 - 50 days/year
- 50.1 - 100 days/year
- 100.1 - 250 days/year
- 250.1 - 500 days/year
- 500.1 - 1345 days/year



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Data Layers

Mid-Atlantic

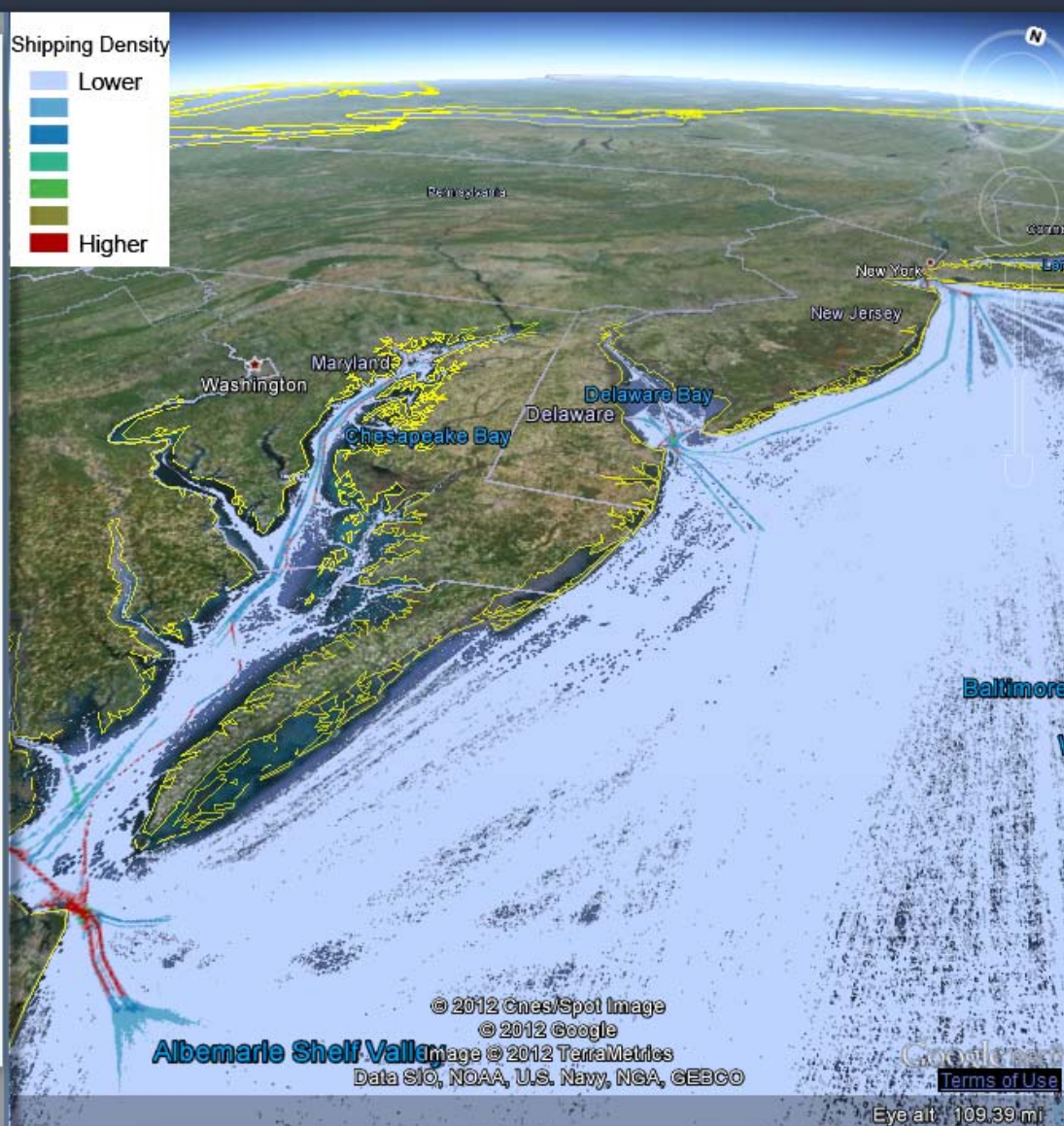
- ☐ Administrative
- ☐ Biological
- ☐ Geophysical
- ☒ Human Use
 - ☐ Submarine Cables
 - ☐ Ship Traffic Separation Zones
 - ☒ AIS Shipping Density
 - ☐ Fishing Effort

Google Earth Layers

- ☐ Roads
- ☒ Borders and Labels
- ☐ 3d Buildings
- ☐ Low Resolution 3d Buildings

Shipping Density

- Lower
- Higher



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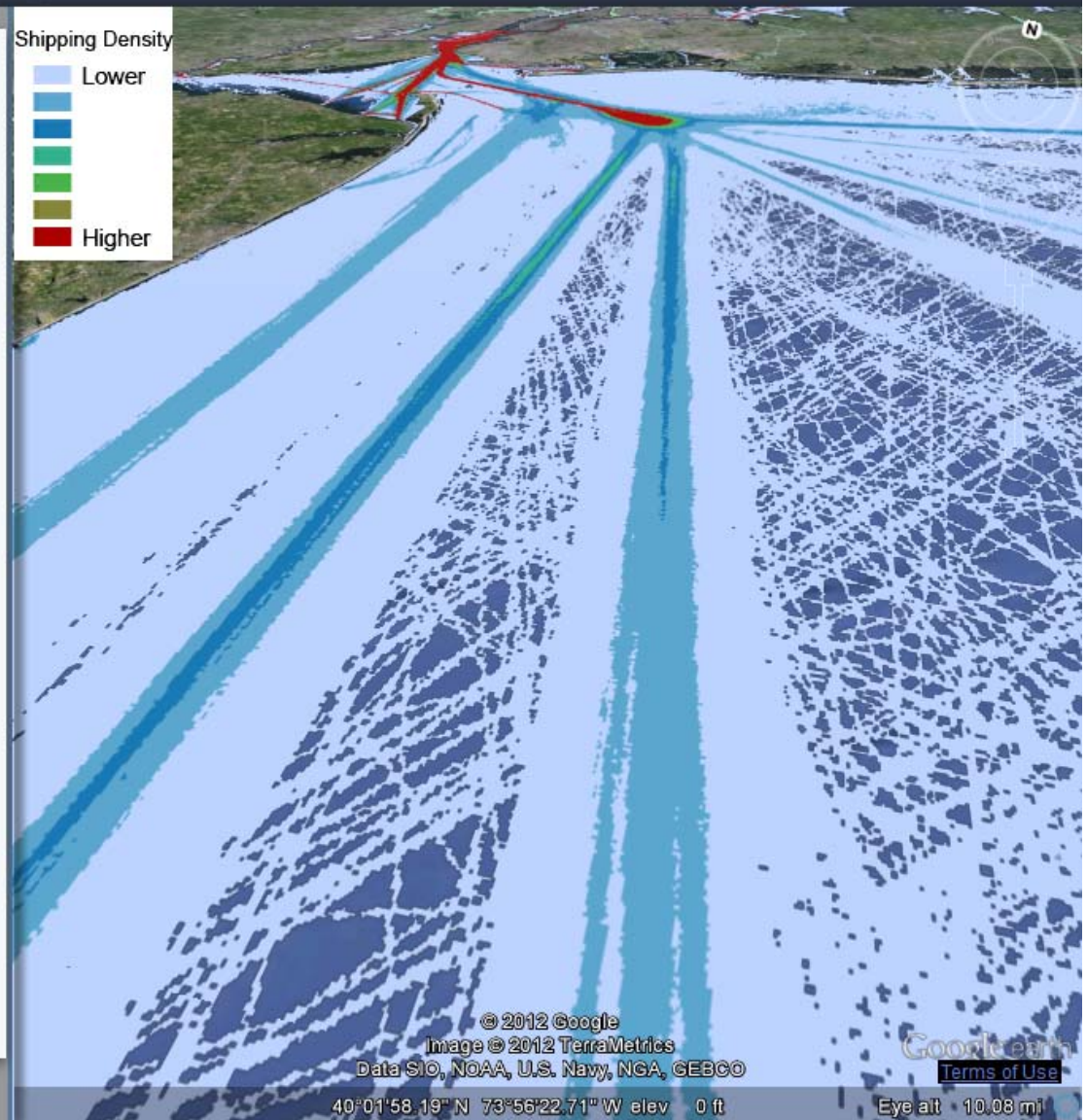
Data Layers

Mid-Atlantic

- ☐ Administrative
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Spatial Design for Wind Energy **sample design**

Inputs

Reports

Created By demo

Created 31 May, 2012 3:08 p.m.

Modified 31 May, 2012 3:08 p.m.

Wind Energy Criteria

Minimum Average Wind Speed: 16.8 mph

Distance to Shore: 12 to 50 miles

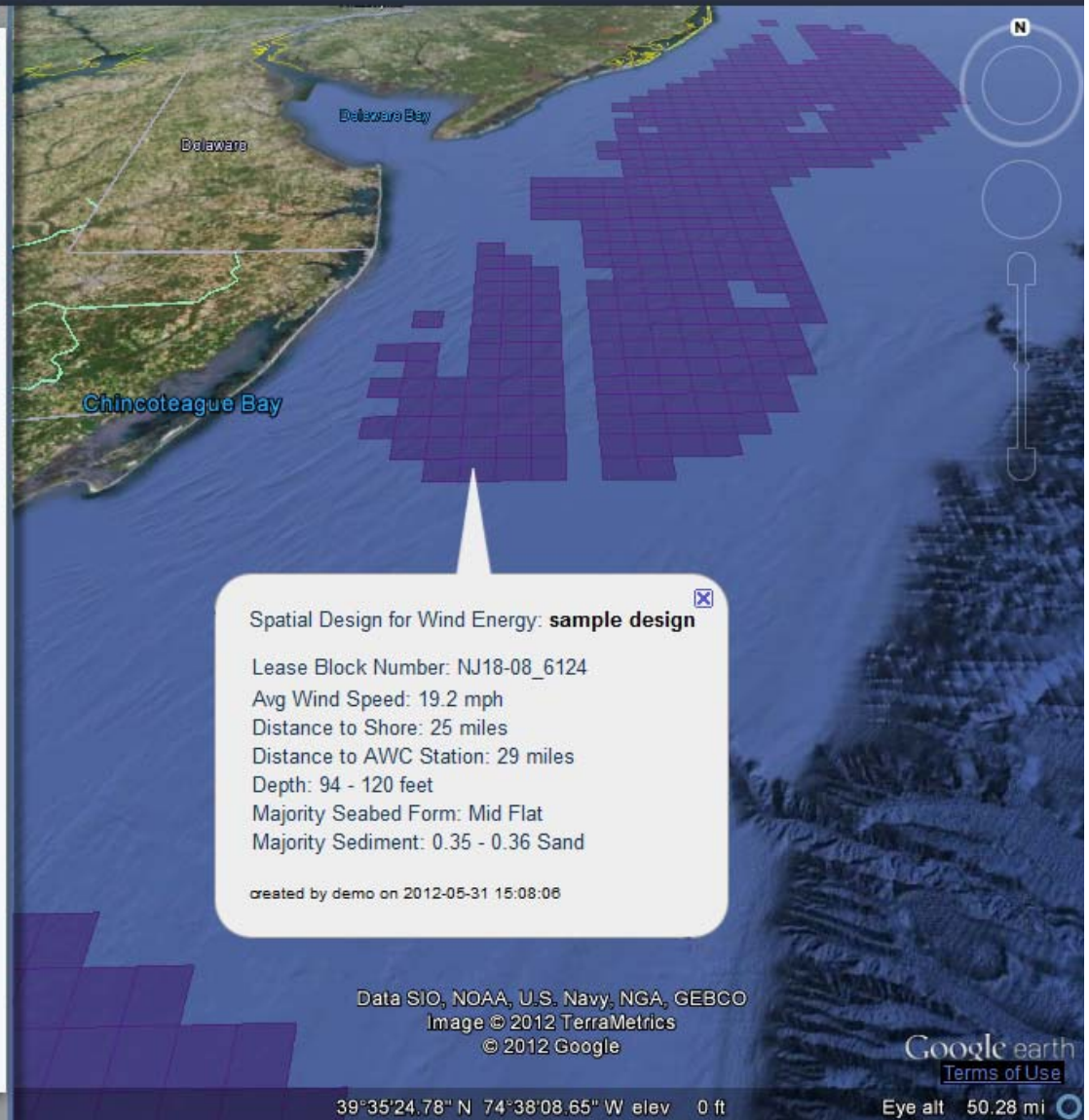
Distance to AWC Station: 30 miles

Depth Range: 50 to 500 feet

Shipping Filters

Excluding Areas of High Ship Traffic

Distance to Shipping Lanes: 1 miles



Data Needs Update

Administrative

- Work Underway Military, hazard & restricted areas

Biological

- No Work Coastal Bird Habitat
- Work Underway Deep water corals, locations, predictive model
- Work Underway Marine Mammal Migratory Pathways
- Work Underway Sea Bird Predictive Distribution Model
- No Work Select TNC NAM ERA data

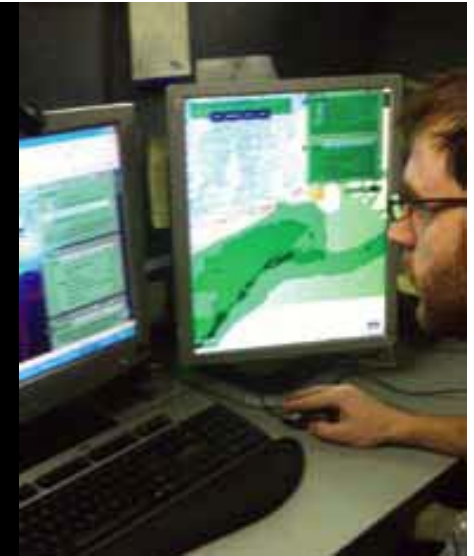
Geophysical

- Work Underway Finite Volume Coastal Ocean Model

Human Use

- No Work State fisheries data
- No Work NOAA Fisheries Observer Program

- Work Underway Discharge points
- Work Underway Port locations
- Work Underway Energy Facilities
- Work Underway Mining locations
- Work Underway Recreational boating and fishing
- Work Underway Commercial fisheries: VMS
- No Work Commercial fisheries: VTR
- No Work Commercial shipping: AIS



Legend

- No Work
- Work Underway
- Data Products Available

National Ocean Policy

- Regional Planning Bodies being formed
 - Mid-Atlantic federal reps already appointed
 - NOC letters to Governors soon to appoint state reps
- 5 years to develop regional goals and ocean plans

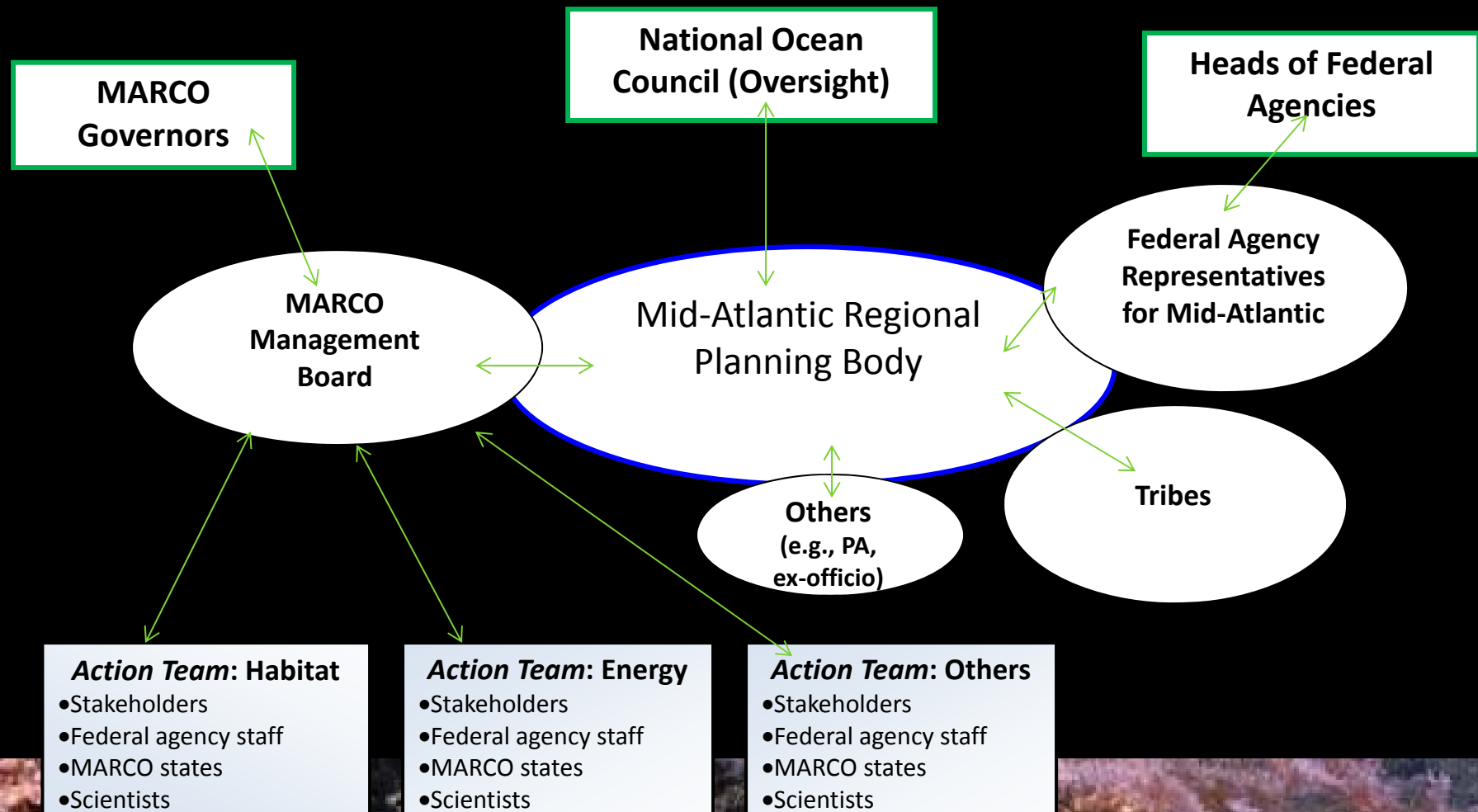


THE WHITE HOUSE COUNCIL ON ENVIRONMENTAL QUALITY

*Final Recommendations
Of The
Interagency Ocean Policy
Task Force
July 19, 2010*



Proposed MARCO Relationship to RPB



5 Year CZM Grant for Virginia Ocean Plan

- About \$100k/yr for 5 years: Oct 2011 – Sep 2016
- Funds for staff support, workshops, data
- Opportunity to compete for “Projects of Special Merit” VA CZM Received \$180k for a PSM to document whale migration



Next Steps

- June 28
Virginia Ocean Planning Kick-off Meeting (Want to come??)
- July 10-12
PGIS Recreational Use Workshops on Eastern Shore
- November ?
Regional Workshop in MD, NJ or DE

