



# WEST COAST OCEAN DATA PORTAL

West Coast Regional Planning Body  
2016 Annual Meeting  
October, 26-27, Portland, OR

# West Coast Ocean Data Portal, ACT Co-Chairs

**Steve Steinberg**

Principal Scientist – Information Management & Analysis  
Southern California Coastal Water Research Project (SCCWRP)

**Andy Lanier**

Marine Affairs Coordinator  
Oregon Coastal Management Program

and

**Allison Bailey**

Sound GIS  
Project Consultant

# Regional data portals

## ➤ Of eight RPB's four have data portals:

- Northeast (NROC) [northeastoceansdata.org](http://northeastoceansdata.org)
- Mid-Atlantic (MARCO) [portal.midatlanticocean.org](http://portal.midatlanticocean.org)
- South Atlantic (GSAA) [gsaaportal.org](http://gsaaportal.org)
- West Coast (WCODP) [portal.westcoastoceans.org](http://portal.westcoastoceans.org)

# East Coast RPB's and data portals



Mid-Atlantic

**BOEM**  
BUREAU OF OCEAN ENERGY MANAGEMENT

Calendar | Contact Us | Employment

Operating Status

About BOEM | Regions | Newsroom | Oil & Gas Energy Programs | Renewable Energy Programs | Environmental Stewardship | Regulations & Guidance

Home | Environmental Stewardship

**Mid-Atlantic Regional Planning Body (MidA RPB)**

In 2010, a Presidential Executive Order established a National Ocean Policy (NOP) to guide the protection, maintenance, and restoration of America's oceans and coasts. The NOP requires Federal agencies to work in a more coordinated, goal-oriented framework with states, tribes, and stakeholders. The NOP also calls for the creation of Regional Planning Bodies (RPBs) to coordinate and implement regional ocean planning with state, Federal, tribal, and Fishery Management Council representatives. **The Mid-Atlantic RPB (MidA RPB) was formally established in April 2013.** It will leverage existing efforts underway by states and regional entities, and engage stakeholders and technical experts at every key step.

In April 2013, Council on the Mid-Atlantic R Workshop in partners to the planning. As the workshop with other ke Mid-Atlantic available on th

**Quicklinks**

MidA RPB Representatives

**NORTHEAST OCEAN DATA**

Maps and data for ocean planning in the northeastern United States

HOME | MAPS | DATA | ABOUT

**DATA EXPLORER**

Interact with any combination of data in the Data Explorer — Human Activities, Marine Life, and Environment

Human Activities		Marine Life		Environment
AQUACULTURE Interactive Map	COMMERCIAL FISHING Interactive Map	MAMMALS & TURTLES Interactive Map	FISH Interactive Map	BATHYMETRY Data Resources & Maps
CULTURE Interactive Map	ENERGY & INFRASTRUCTURE Interactive Map	BIRDS Interactive Map	EELGRASS Data Resources & Interactive Map	WATER QUALITY Video & Maps
MARINE TRANSPORTATION Interactive Map	RECREATION Interactive Map	HABITAT Interactive Map	HABITAT CLASSIFICATION Story Map	RESTORATION Interactive Map
NATIONAL SECURITY Interactive Map				

Northeast

**MARCO**  
MID-ATLANTIC REGIONAL COUNCIL ON THE OCEAN

ABOUT | SHARED REGIONAL PRIORITIES | OCEAN PLANNING

**Data Portal**

Toolkit for Visualizing and Analyzing Ocean Data

The **Mid-Atlantic Ocean Data Portal** is an online toolkit and resource center that consolidates available data and enables state, federal, and local users and the general public to visualize and analyze ocean resources and human use information such as fishing grounds, recreational areas, shipping lanes, habitat areas, and energy sites, among others. The Data Portal is continually updated as appropriate datasets that align with MARCO priorities become available.

The Data Portal serves as a platform to engage all stakeholders in the five coastal Mid-Atlantic states, putting all of the essential data and state-of-the-art mapping and visualization technology into the hands of the agencies, industry, community leaders, and stakeholders engaged in ocean planning.

**Seven Categories of Data**

The Portal offers access to dozens of datasets in seven categories: **Administrative, Fishing, Marine Life, Maritime Industries, Recreation, Renewable Energy and Security.**

**Developed by a Partnership of Organizations**

The **MARCO Portal Project** team develops and enhances the Portal. Represented on the team are Monmouth University's Urban



**OCEAN PLANNING IN THE NORTHEAST**

Website for the Northeast Regional Planning Body

**Easy Access to Ocean Data**

The **Northeast Ocean Data Portal** is a decision support and engaged in ocean planning in the region from the Gulf of website provides access to data, interactive maps, tools, and decision making. The primary audiences for this effort include stakeholders, and technical staff. The Northeast Ocean Data the region and provides additional capacity for both state

**Read more about the Northeast Ocean Data Portal.**

**Northeast Ocean Data News**

**New Map Shows Priority Restoration and Conservation 2016**

**Updated Maps of Physical and Biological Habitat Data**—March 17, 2016

**Northeast Ocean Data Maps Now Link Directly to Related Studies in Bureau of Ocean Energy Management Database**—March 17, 2016

**Redesigned Home Page Reflects New Data Themes in Support of the Upcoming Draft Northeast Ocean Plan**—March 17, 2016

Don't worry, I read the whole Plan before today's @neocanplanning #NEOceanPlan revisions & update webinar at 1:30pm neocanplanning.org/events/septemb...

Embed | View on Twitter

# Regional data portals

- **Provide RPBs significant benefits**
  - Data coordination among multiple entities
  - Organized and searchable information
    - Cataloged data sets
    - Metadata consistency
  - Mechanisms to access and integrate data
    - Data downloads
    - Web services

# ➤ WCGA Origin

## ➤ The Governors of California, Oregon and Washington entered agreement in 2006

- WCG Alliance on Ocean Health supported by volunteer participation from a range of entities in the three states and grant funding from NOAA
- Established multiple Action Coordination Teams (ACTs) focused on key issues



CHRISTINE  
GREGOIRE  
*Washington*



THEODORE R.  
KULONGOSKI  
*Oregon*



ARNOLD A.  
SCHWARZENEGGER  
*California*

### West Coast Governors' Agreement on Ocean Health September 18, 2006

#### A Call to Action

Washington, Oregon, and California share a rich and diverse bounty of ocean and coastal resources that provide enormous economic, environmental, and social benefits to our states. Yet our citizens' continued use and enjoyment of coastal and ocean resources are at risk. Polluted waters, declining populations of fish and other marine life, degraded nearshore habitats, risks of severe storms and tsunamis, and impacts related to climate change are but a few examples of serious threats to the continued vitality of our ocean-dependent states. Recently, two national ocean commissions concluded that our oceans are in trouble and called for immediate, meaningful action at all levels of government to restore and maintain their health.

#### Charting a New Course

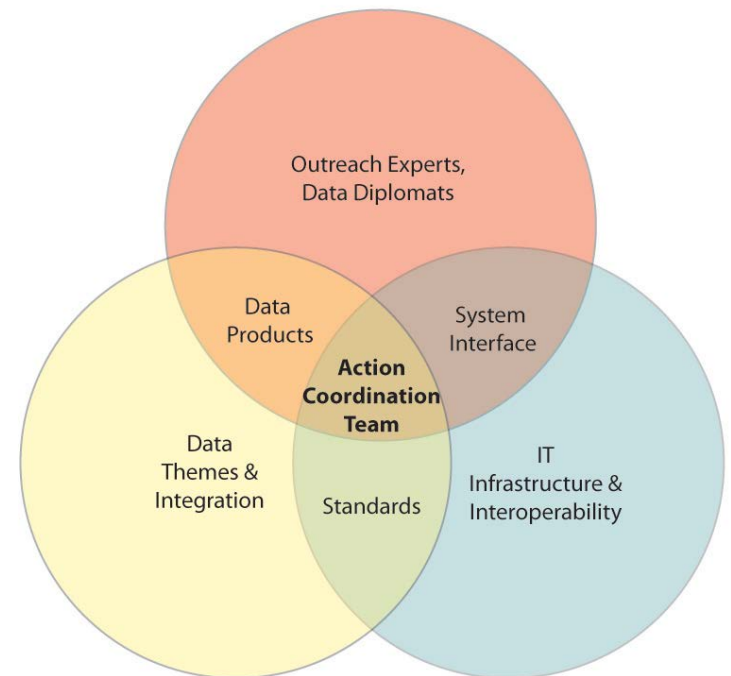
Washington, Oregon, and California recognize these challenges and are taking action to address the declining health of our shared ocean. Each of our three states has developed world class expertise in ocean sciences and academics, and established a track record of innovation and leadership on ocean and coastal issues domestically and internationally. Our growing understanding of our relationship with the marine environment and its living and nonliving natural resources is leading us to explore ecosystem-based approaches to managing our coasts and oceans. Washington's Puget Sound Partnership and Ocean Policy Working Group, Oregon's Ocean Policy Advisory Council, and California's Ocean Protection Council are forums where these important discussions are occurring today. Each of these bodies maintains an innovative framework in which government and tribal officials, managers, scientists, citizens, and other stakeholders employ an integrated approach to protecting and restoring our coastal watersheds, shorelines, estuaries, nearshore waters, and open ocean.

# WCODP Background

## ➤ Need for an ACT for data coordination

- In Dec. 2011 representatives of 60 state and federal agencies, tribal representatives, NGO's and academic staff from California, Oregon, and Washington gathered to discuss establishment of a West Coast Regional Data Network
  - Formation of the ACT commenced in January 2012
- Network structure established workgroups for:
  - Data
  - Information Technology (IT)
  - Outreach

Structure of the West Coast Regional Data Network



## ➤ Evolution of funding support since 2012

- Initially received funding from NOAA Regional Ocean Partnership
  - Program Coordinator
  - Contractor support to develop the WCODP
  - Infrastructure support
  - Meeting support
- BOEM
  - Data synthesis for regional data products
  - IT infrastructure maintenance and support
- Moore Foundation
  - Support to the RPB
    - Connections to additional data catalogs
    - Development of priorities document
    - Development of example story maps



# Portal Demo



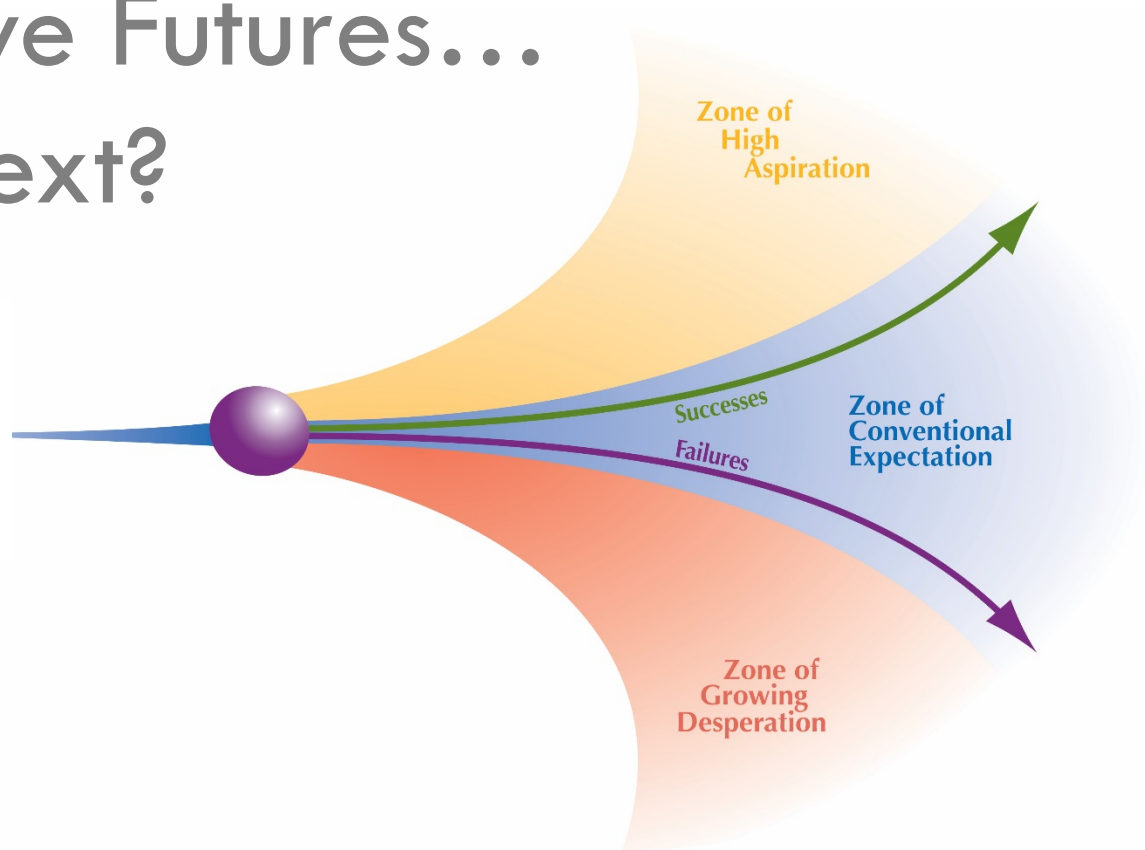
- West Coast Ocean Data Portal Live Demonstration
  - <http://portal.westcoastoceans.org/>
- **Discover:** <http://portal.westcoastoceans.org/discover/>
  - Search by: keyword, location, category, issue, data format, source
  - Visualize on map viewer
- **Connect:** <http://network.westcoastoceans.org/>
  - Human network: blog, calendar, meetings, training
  - Metadata catalogs: WAF, CSW, Geoportals
- **Inform**
  - Technical support & training: <http://network.westcoastoceans.org/training-resources/>
  - Knowledge base: <https://wcodp.readthedocs.io/>
  - Regional Data synthesis – Oceanographic data, kelp, fishing regs, littoral cells
  - Communication products for priority topics: <http://portal.westcoastoceans.org/inform/>
- Recent work funded by Moore Foundation
  - Priority Data Catalog connections (WA Geospatial Clearinghouse, NCCOS, NMFS)
  - Story maps
    - [How are Ocean Conditions Changing?](#)
    - [Changing Ocean Uses: Marine Renewable Energy on the West Coast](#)

# Portal Status: A Matter of Perspective

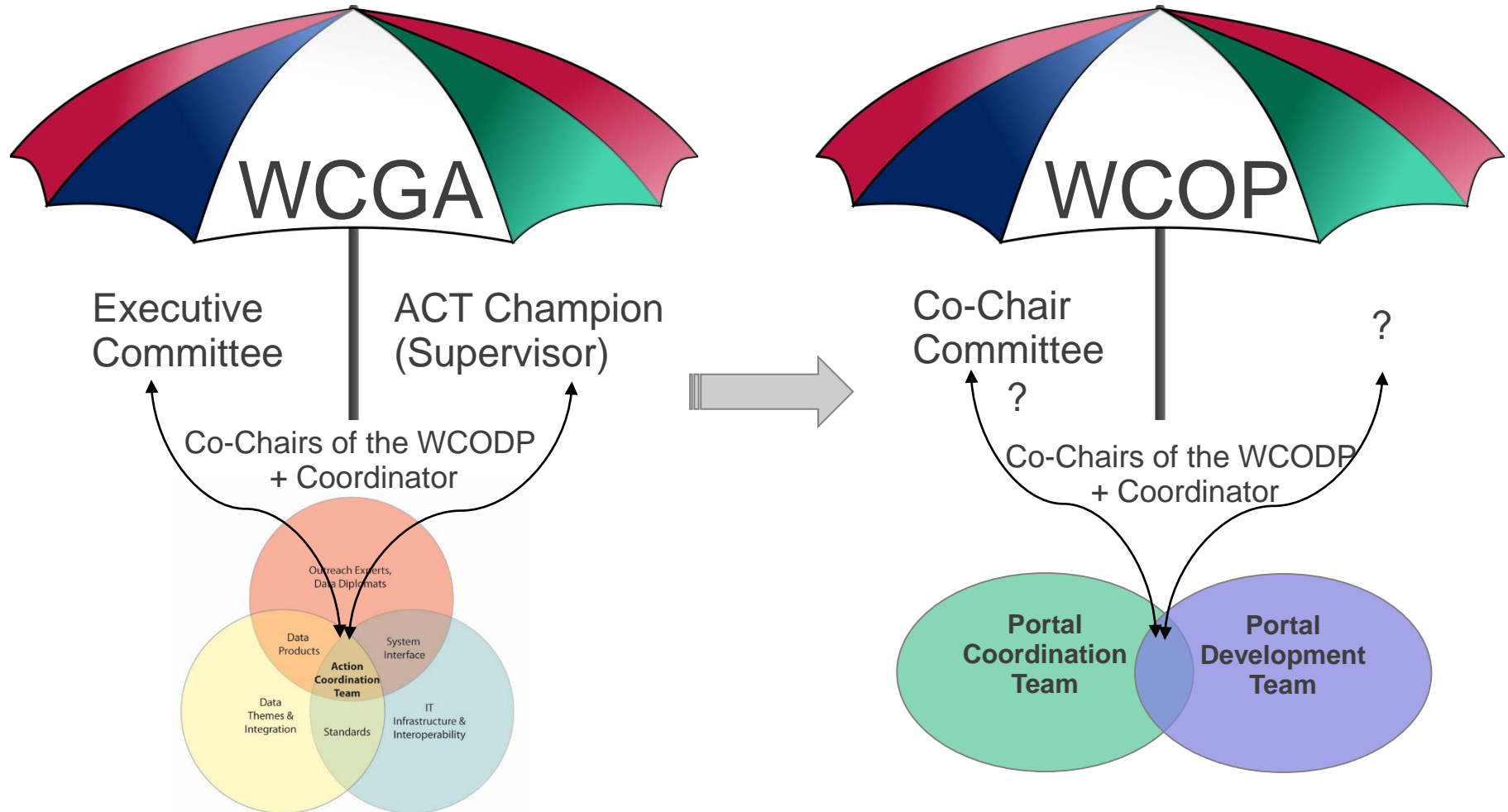


# Moving forward

## Alternative Futures... What's next?



# A New WCODP & WCOP Structure?



# Portal Support Needs



## Basic Operation and Maintenance (Annual)

Web hosting is the single most important operations cost that ensures “the lights stay on” for the WCODP.

Includes

- WCODP infrastructure,
- West Coast Marine Debris Database and
- Climate Change Funding Catalog.

Web Hosting Servers: \$13K

Software Updates and

Server Maintenance: \$7K



## Coordination and Outreach (Annual)

The Coordinator conducts outreach, administers the WCODP, manages grant deliverables, and strengthens partnerships. Organizes Portal Coordination Team, Portal Development Team, and WCODN.

WCODP Project Coordinator:

.5FTE = \$40, 1FTE = \$80K

Annual Network Meeting (travel and accommodations): \$15K



## Use Case Expansion and Development

The “use case” approach has proved to be a highly successful technology development method that involves users at the very beginning of the process to understand needs for data and tools.

Ex) Marine Debris Data Viewer Use Case.

Use Case: \$80K

Data Development: \$50K

# Moving forward

## The Preferred Option:

**Preferred alternative:** The WCODP would receive institutional funding to support operations and a full time coordinator position (1FTE).

- A clear line of communication would be established between the WCODP and the WCOP, including “chain of command.”
- Funding would support maintaining capacity to incorporate new records and data into the catalog, and coordination of network members
- Effort would be spent to implement support for WCOP on the WCODP and WCODN on the existing system (faceted searches, topic area pages, coordination groups, etc).

If requested, the WCODP would:

- Provide estimates of cost for tool/technology development exercises that will require more than a maintenance level of funding
- Provide estimates for conducting technical assistance work/training



Our Desired State of Being..

Please contact us for more information:

Andy Lanier

[andy.lanier@state.or.us](mailto:andy.lanier@state.or.us)

503.934.0072

Steve Steinberg

[steves@sccwrp.org](mailto:steves@sccwrp.org)

714.755.3260