Welcome to the BOEM-Oregon Science Exchange



July 20, 2016 - 10:00 am
Audio: call toll free 1-877-612-1641, passcode: 5729109
We will begin shortly!

If you are having technical difficulties, please call John Sanchez at 805-384-6315 or send us a chat message.



Pacific Region Leasing Specialist

Sara Guiltinan



Sara Guiltinan is a Leasing Specialist in the BOEM Pacific Region's Renewable Energy Section. Sara joined the Pacific Region in 2011 as a Presidential Management Fellow. She holds a Bachelor of Arts degree in Environmental Science from Claremont McKenna College and a Master of Environmental Science and Management degree from the University of California at Santa Barbara. Sara supports the Pacific Region's programs by managing research contracts, conducting socio-economic analyses, and participating in regional marine planning and other collaborative efforts.

Today, Sara will present the Oregon component of the Pacific Regional Ocean Uses Atlas study.







The Pacific Regional Ocean Uses Atlas – Information for Oregon

Sara Guiltinan

Bureau of Ocean Energy Management, Pacific OCS Region, Camarillo, CA

Mimi D'Iorio, Charles Wahle, Hugo Selbie, Jordan Gass

NOAA National Marine Protected Areas Center, Monterey, CA

BOEM-OREGON SCIENCE EXCHANGE JULY 20, 2016 • CAMARILLO, CA





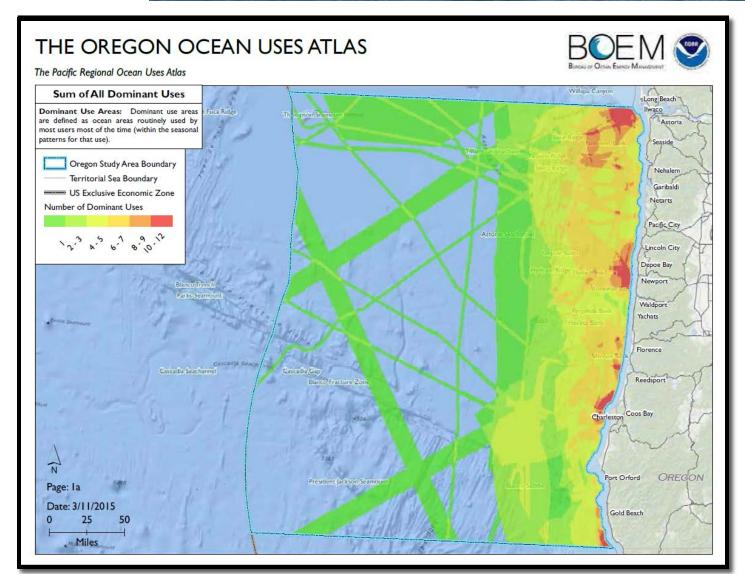
The Oregon Ocean







The Oregon Ocean







Why Study Ocean Uses?

Energy Policy Act of 2005 (EPAct)

Consideration must be given to "any other use of the sea or seabed, including use for a fishery, a sealane, a potential site of a deepwater port, or navigation" [Sec. 388 (a)(4)(J)(ii)]











Participatory Mapping

"...gathering and mapping spatial information to help communities learn, discuss, build consensus, and make decisions about their communities and associated resources." – NOAA Coastal Services Center

3 PROUA mapping workshop locations

Portland, Coos Bay, Newport June 3, 5, & 7, 2013



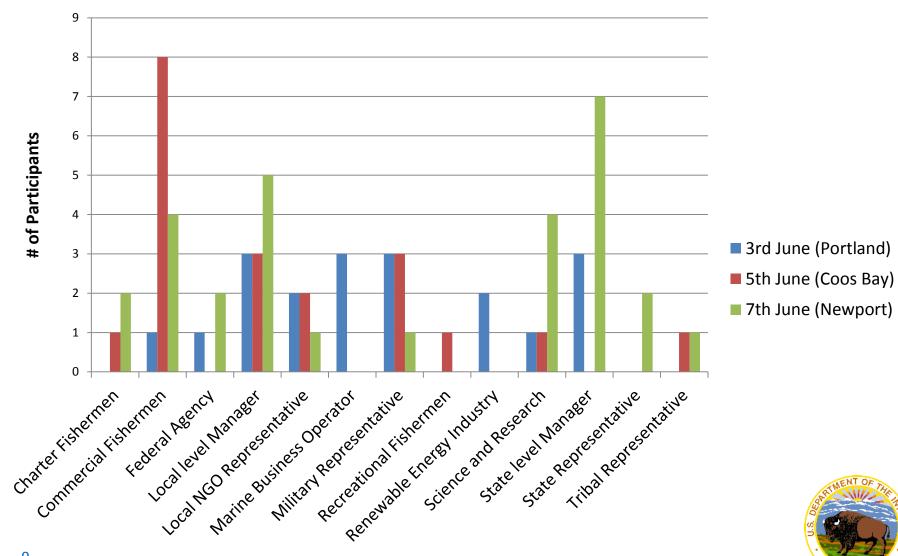


The Mappers



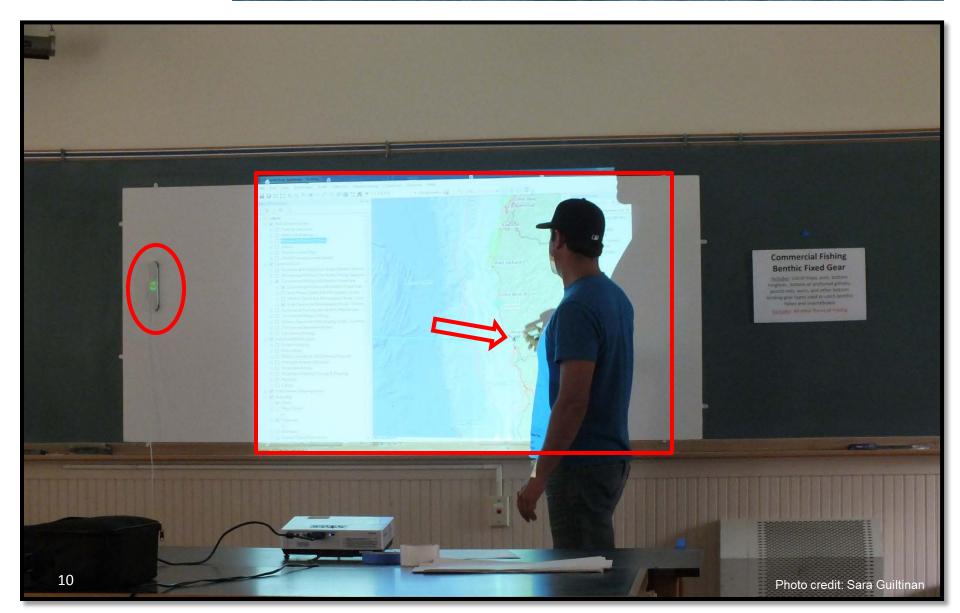


Representation at Mapping Workshops



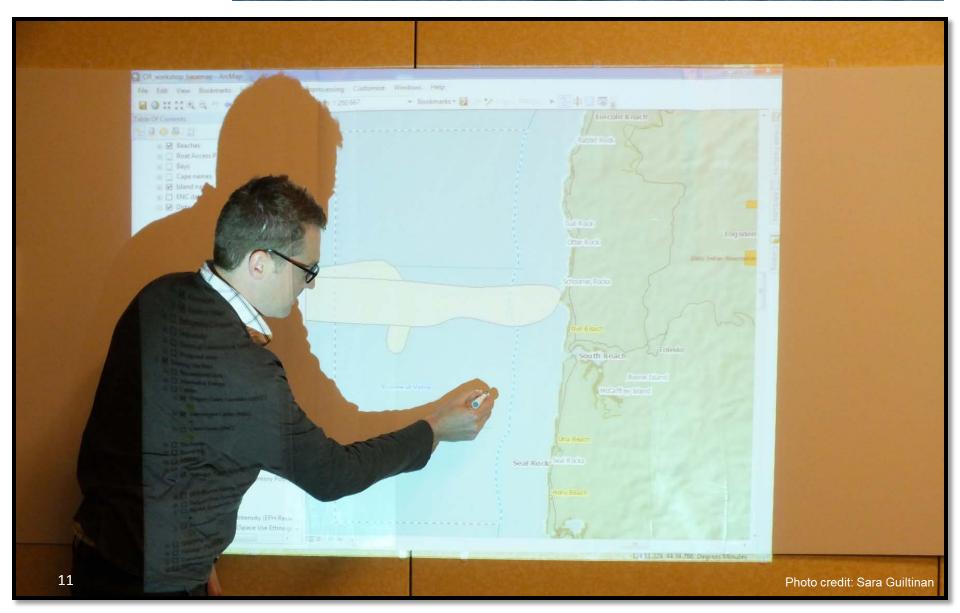


Mapping Technology





Mapping Process





Non-Spatial Information





Targeted Uses

Industry/Military Sector

- Commercial Shipping
- Ocean Dumping
- Mariculture
- Military Operations
- Mining and Mineral Extraction
- Renewable Energy
- Underwater Pipelines **
- Underwater Transmission Cables

Extractive Sector

- Commercial Fishing with Benthic Fixed Gear
- Commercial Fishing with Benthic Mobile Gear
- Commercial Pelagic Fishing
- Commercial Seaweed Harvest
- Recreational Fishing from Boats for Benthic Species
- Recreational Fishing from Boats for Pelagic Species
- Subsistence Fishing and Harvest

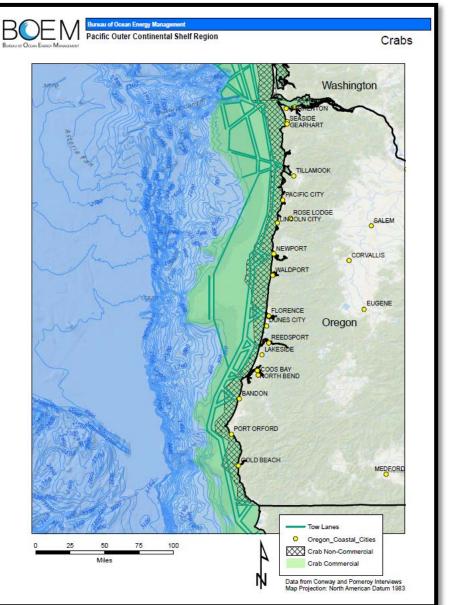
Non-Extractive Sector

- Cruise Ships
- Cultural Use Areas
- · Motorized Boating
- Permanent Research Areas
- Sailing
- Wildlife Viewing at Sea





Existing Ocean Uses Information

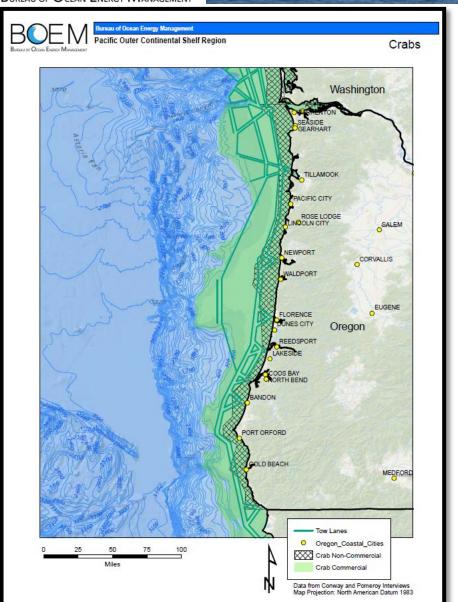


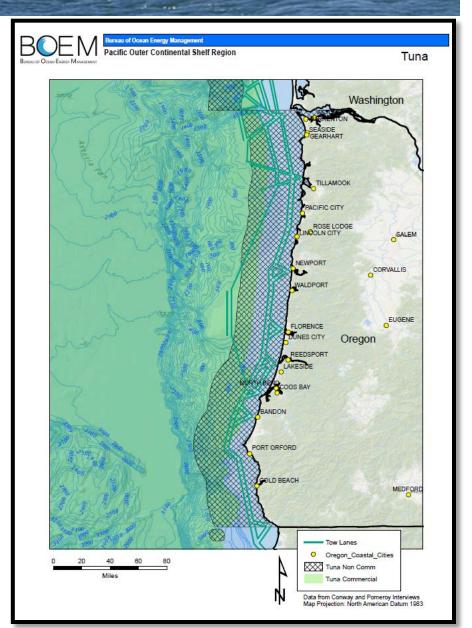
Existing data from various sources included in basemap.

Key reference:
Identification of OCS
Renewable Energy SpaceUse Conflicts and Analysis
of Potential Mitigation
Measures Study
(2009-2012)



Existing Ocean Uses Information







Data Validation

THE OREGON OCEAN USES ATLAS

DRAFT RESULTS



The Pacific Regional Ocean Uses Atlas

Recreational Fishing from Boats for Benthic Species

Includes:

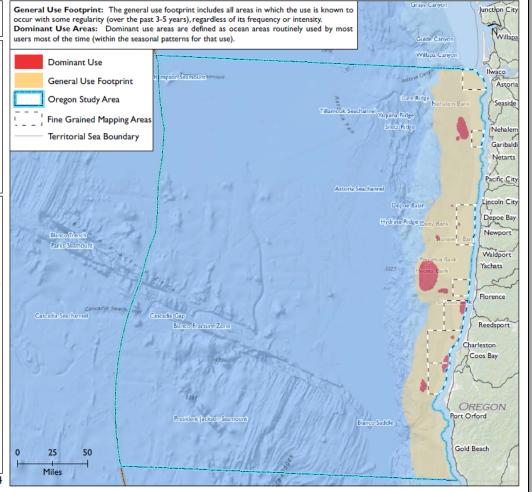
Recreational fishing from head boats, party boats, charters, or private boats targeting benthic species including mobile invertebrates

Excludes:

Any other boat- or shore-based fishing

Lisa Notas

Most recreational benthic fishers are catching Rockfish, Halibut or Crab during the spring and summer seasons. These boats use hook and line for Rockfish or Halibut and traps or pots for Crab. Charter boats targeting Rockfish and Crab will fish in state waters at 45 - 60 fathoms and host up to 18 people on board. The larger charter boats are concentrated around Depoe Bay (10 -15 boats), Newport (20 boats) and Garibaldi. Halibut is one of the main species recreationally fished outside 3 NM. When fishing for Halibut and Lingcod, fishers typically stay within a day's sail of port, around 30 miles. Legally, these fishers are allowed to fish out to 100 miles. There are some specific areas that Halibut fishers will target such as 'Halibut Hill' off of Garibaldi, 'Bandon High Spot', and 'Chicken Ranch' by Perpetua Bank.









Validation Feedback and Adjustments

Process concerns:

- Inadequate comm/rec fishing representation
- Need more time and effort to engage affected communities and industries
- Engagement process

Ensuing Actions:

- Outreach to 5 established fishing groups + ODFW
 - FINE, NSAT, FACT, SOORC, FISHCRED
- Extended validation period, added 2nd draft
- Attended fishing group meetings to listen & solicit input
 - FINE, FACT
- Coordination with FISHCRED



Final PROUA Products

GIS Data

Maps (and maps and maps and maps...)

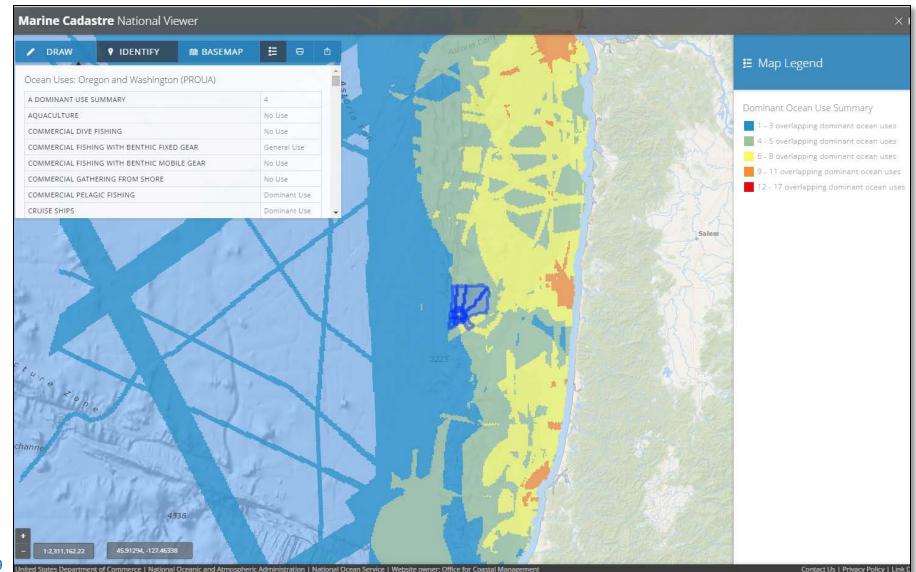
Study Report

Interactions/conflict/compatibility analysis



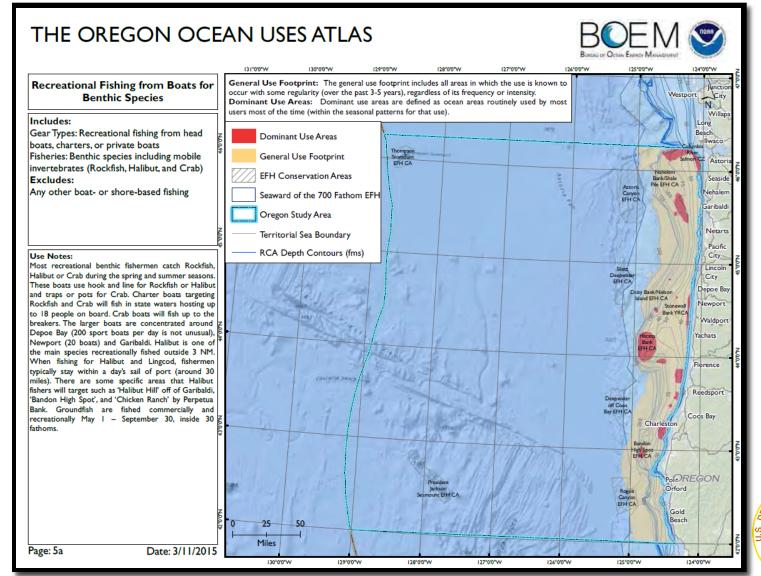


Final PROUA Products - GIS Data





Final PROUA Products - Maps





Final PROUA Products - Maps

THE OREGON OCEAN USES ATLAS

The Pacific Regional Ocean Uses Atlas

Sailing

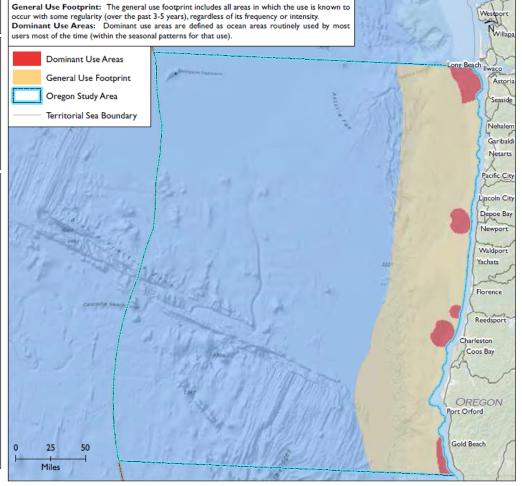
Includes:

Transit, mooring, motoring or anchoring by sailboats, including sailing kayaks and canoes Excludes:

Motorized Boating, Paddling

Use Notes:

Sailing in the study region is a seasonal use with limited activity in the winter due to extreme weather conditions. Much of the activity includes transiting through Oregon waters out to 50 NM offshore. Recreational sailors tend to congregate locally around major harbors such as Astoria, Newport and Coos Bay; there is an annual race (10 - 20 boats) from Astoria to Newport. Charter sailboats run seasonally from Garibaldi north to the San Juan Islands and south to Newport around 10 miles offshore.







Final PROUA Products - Maps

THE OREGON OCEAN USES ATLAS

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The Pacific Regional Ocean Uses Atlas

Underwater Transmission Cables

Includes:

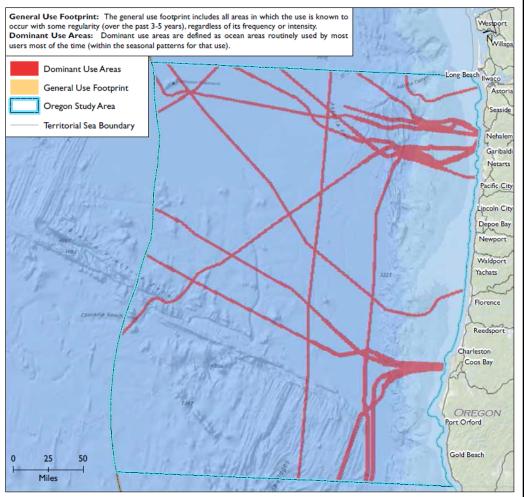
Cables installed on the seafloor to transmit data, communications, and electricity generated on land

Excludes:

Lost fishing gear, renewable electricity transmission cables

Use Notes:

Underwater transmission cables are present throughout the study region. Out to 700 fathoms, cables are buried to I meter to protect against trawling (burial does not protect against potential anchoring damage). Beyond this depth, the cables are simply laid on the seafloor. Existing cables are used predominantly for telecommunication and vary in length from north-south cables that span the west coast to transpacific cables. There are research cables around Coos Bay that include research arrays for the Ocean Observing Initiative (OOI).







Final PROUA Products - Study Report

OCS Study BOEM 2015-014

THE PACIFIC REGIONAL OCEAN USES ATLAS

Data and tools for understanding ocean space use in Washington, Oregon and Hawaii

Authors:

Mimi D'Iorio Hugo Selbie Charles Wahle Jordan Gass

June 2015

Prepared under BOEM-NOAA Interagency Agreement M12PG00029

By

National Oceanic and Atmospheric Administration 99 Pacific Street, Suite F Monterey, CA 93940

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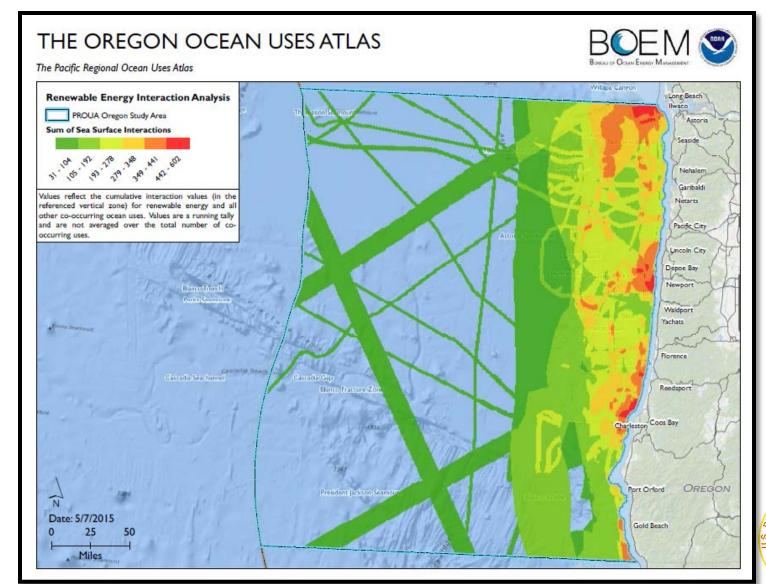
Final PROUA Products – Interactions Analysis

- Space Use Profiles
- Ocean Use Interaction Assessment Tool
- Interactions between Renewable Energy and other Ocean Uses
- Maps of Potential Interaction between Renewable Energy and Other Uses





Final PROUA Products – Interactions Analysis







Using the PROUA

Understand context of existing uses

Inform project-scale analysis

Inform further communication

*See report section 5.1 – Considerations and Caveats





Pacific OCS Region Contact and Links



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BOEM Pacific Region Info:

www.boem.gov/Pacific-Region/

PROUA Report:

http://www.boem.gov/2015-014/

Space-Use Conflicts Study:

www.data.boem.gov/PI/PDFImages/ESPIS/5/5203.pdf

Marine Cadastre National Viewer:

http://marinecadastre.gov/nationalviewer/

GIS Data Download:

https://coast.noaa.gov/dataregistry/search/collection

