



# Federal-State Collaboration for Offshore Renewable Energy

# Lisa Gilbane

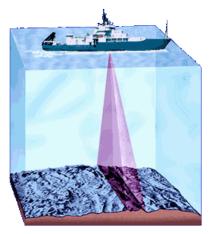
**BOEM-Oregon OCS Renewable Energy Task Force Meeting** 

Portland, Oregon June 26, 2014



## **BOEM—Oregon Planning & Collaboration**

- We collaborated early in the planning process for ocean energy
  - Joint identification of need for seafloor information
  - Led to a 2010 collaborative effort to conduct a regional benthic assessment
- We continue to collaborate as needed throughout the process
  - Joint discussion of need to examine research efforts
  - Led to a 2012 collaborative effort to convene an Oregon science conference











- *Title:* Benthic Communities near Potential Renewable Energy Sites Offshore the Pacific Northwest
- 2010-2014
- Principal investigators:
  - Lisa Gilbane
  - Sarah Henkel
  - Chris Goldfinger







- Scientific review group:
  - U.S. Environmental Protection Agency
  - U.S. Geological Survey
  - National Oceanic and Atmospheric Administration







# **Project Components & Sites**













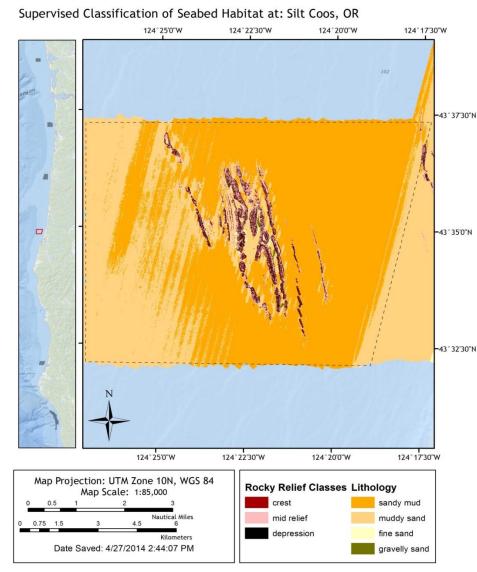
# Mapping New Areas of the Seafloor

# **Sharing Vessels**

- Oregon state agencies
- NSF Ocean Observing Initiative
- NOAA Ocean Explorer
- U.S. Geological Survey

#### **Results of Collaborations**

- Added 50% to Oregon seafloor maps
- Saved \$150 K toward future modeling efforts

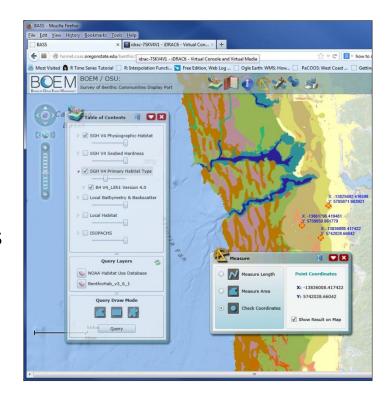






# **Benefits of Collaborating**

- Monetary savings
- Increased data collection
- Allowed model development for corals
- Improved the sampling design to be compatible with previous work
- Resulted in products useful to other state and federal researchers







# **Oregon Science Conference**



- *Title:* Oregon Marine Renewable Energy Environmental Science Conference
- 2012-2013
- Steering committee:
  - George Boehlert
  - Caren Braby
  - Ann Bull
  - Mary Elaine Helix
  - Sarah Henkel
  - Paul Klarin
  - Donna Schroeder













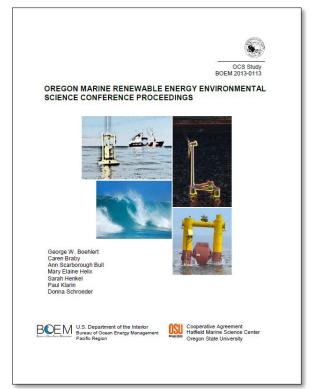
### **Oregon Science Conference**



- Open session (100+ attendees)
- Experts workshop (40+ scientists and managers)
- Identified and prioritized research needs
  - Baseline information and siting studies
  - Impact studies
  - Long-term monitoring studies
- Proceedings published

http://www.data.boem.gov/PI/PDFImages/ESPIS/5/5255.pdf

http://hmsc.oregonstate.edu/rec/sites/default/files/boem-oregonmreconfprocfinal041413.pdf







# **Oregon Science Conference**



# **Benefits of Collaborating**

- More comprehensive understanding of existing research
- Synergistic planning for future needs
- Leveraged time and effort among coordinators
- Subsequent research efforts
  - Oregon seabird tagging
  - Wave energy depletion
  - EMF effects on crab harvest













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For an overview of selected BOEM research informing renewable energy offshore Oregon, go to:

www.boem.gov/Oregon