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# Oregon Sea Grant

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## Current research

## Research



Sea Grant-funded projects, 2012-2014

### Community Resilience to Coastal Hazards and Climate Change:

#### Current projects:

- » [An Integrated Engineering-Economic Vulnerability Assessment Tool to Increase Tsunami Preparedness in Rural Coastal Counties \(R/CNH-22\)](#). Young Chen, Oregon State University Agricultural & Resource Economics
- » [Understanding, Forecasting and Communicating the Linkages Between Hypoxia and Ocean Acidification in Oregon's Coastal Ocean \(R/ECO-26\)](#). Francis Chan, OSU Zoology
- » [Developing Realistic Metrics of Acidification Stress for Commercially Important Bivalves in Variable Habitats \(R/SAQ-19\)](#). George Waldbusser, OSU College of Earth, Ocean, and Atmospheric Sciences (CEOAS)

#### 2010-2012 projects:

- » [Coastal Effects of Tsunamis \(R/CNH-20\)](#), Harry Yeh, OSU School of Civil and Construction Engineering
- » [Nearshore Wave Predictions along the Oregon Coast \(R/CNH-19\)](#), H. Tuba Ozkan-Haller, OSU CEOAS.

### Coastal Learning and Decision Making

#### Current projects:

- » [Sea Grant Professorship in Free-Choice Learning \(E/UEd-03\)](#). John Falk & Lynn Dierking, OSU Science and Math Education

### Fisheries and Seafood

#### Current projects:

- » [Predicting Habitat Quality of Juvenile English Sole and Dungeness Crab in Coastal And Estuarine Nursery Grounds \(R/ECO-5\)](#). Lorenzo Ciannelli, OSU CEOAS.
- » [Taking Stock of Oregon's Nearshore Fisheries: Development of Simple Assessment Tools for Better Management \(R/RCF-30\)](#). Selina Heppell, OSU Fisheries & Wildlife.
- » [Geomagnetic Imprinting and Homing in Salmon and Steelhead \(R/RCF-31\)](#). David Noakes, OSU Fisheries & Wildlife.

#### 2010-2012 projects:

- » [Drivers Of Ecosystem Resilience: Toward A Predictive Understanding Of Hypoxia's Impacts On Nearshore Fisheries And Ecological Communities \(R/ECO-24\)](#). Francis Chan, Partnership for Interdisciplinary Studies of

## Current Research

### Grant Opportunities

- » [Biennial Grant Competition](#)
- » [Program Development Grants](#)
- » [Managing Your Grant](#)
- » [Other Funding Opportunities](#)

Coastal Oceans (PISCO)/OSU Department of Zoology

- » [A Cooperative Effort to Track the Humboldt Squid Invasion in Oregon](#) (R/RCF-29). Selina Heppell, OSU Department of Fisheries & Wildlife
- » [Effect of \*Vibrio tubiashii\* on West Coast Shellfish](#) (R/SAQ-16). Chris Langdon, OSU Hatfield Marine Science Center/Coastal Oregon Marine Experiment Station
- » [Effects of Hypoxia on Ichthyoplankton and Micronekton Communities off the Oregon Coast](#) (R/ECO-23). Lorenzo Ciannelli, OSU CEOAS (continuing project from 2008-2010 funding cycle).

## Multiple Uses and Marine Spatial Planning

### Current projects:

- » [Realized and Potential Larval Connectivity Along the Oregon Coast](#) (R/HBT-15). Harold Batchelder, OSU CEOAS.

### 2010-2012 projects:

- » [A Community-Based Framework for Identifying, Estimating and Evaluating Ecosystem Services Associated with Oregon's Proposed Marine Reserves](#) (R/CC-12). Randall S. Rosenberger, OSU College of Forestry.

## Oceans and Human Health

### 2010-2012 projects:

- » [Bioactive Natural Products from Deep Sea Hydrothermal Vent Organisms](#) (R/BT-48). Mark Zabriskie, OSU University College of Pharmacy.

## Watersheds and Water Resources

### Current projects:

- » [Modeling Myxozoan Disease in Pacific Salmon: Establishing Watershed Models for Predicting Effects of Climate Change](#) (R/BT-49). Jerri Bartholomew, OSU Microbiology.
- » [Tides, Freshwater and Winds: Modeling the Impacts of Currents on the Oregon Inner Continental Shelf and Within Yaquina Bay Estuary](#) (R/HBT-16). James Lerczak, OSU CEOAS.

### 2010-2012 projects:

- » [Response of Marsh Insects and Benthic Invertebrates to Dike Removal in the Salmon River Estuary: Follow-up, Synthesis and Education](#) (R/HBT-12). Karen Haberman, Western Oregon University Department of Biology.
- » [Modeling Myxozoan Disease in Pacific Salmon: How Will Climate Change Affect Parasite Distribution and Salmon Survival?](#) (R/BT-47). Jerri Bartholomew, OSU Department of Microbiology.
- » [A Predictive Approach to Risk Analysis and the Economics of Early Detection and Rapid Response for Aquatic Invasive Species](#) (R/NIS-19). Munisamy Gopinath, OSU Department of Agricultural and Resource Economics.

## West Coast Regional Projects

Four West Coast Sea Grant Programs (Oregon, Washington, California and the University of Southern California) are jointly funding a number of coordinated research projects for 2012-2014 that bring together researchers from across the region to address social science issues of regional priority. The four programs have made a total of \$700,000 available over two years for this initiative.

The following two projects, funded by this regional initiative, involve Oregon collaborators:

- » [Toward Resilience and Sustainable Seafood Supply: Assessing Direct Marketing Approaches for the West Coast Fishing Communities](#) (R/SF-36). Barbara Walker, University of California-Santa Barbara. Oregon Sea Grant co-PIs are Jamie Doyle and Jeff Feldner.
- » [Successful Adaptation: Identifying Effective Process and Outcome Characteristics and Practice-Relevant Metrics](#) (R/CNH-23). Pamela Matson, Stanford University. Oregon co-PI: Hannah Gosnell, OSU/CEOAS.

## Program Development Grants

When funds are available, Sea Grant makes modest grants outside the regular biennial funding cycle to promising research proposals that need "start-up" money, to small-scale projects of high significance or societal relevance, and to projects which help fill gaps in our research portfolio. **Read more:** [Examples of current and recent PD grants.](#)

## Outside funding

Oregon Sea Grant faculty receive funding from a variety of sources to support their own research. Some of our current and recent projects:

- » [Developing a Pilot Marine Debris Monitoring Program in Oregon.](#) PI Jamie Doyle. (Funding: NOAA)
- » [NOAA Sea Grant Tsunami Debris Workshop and Elevating Public Awareness, engagement and solutions to West Coast Marine Debris Through Video Outreach](#) PI Stephen Brandt. (Funding: NOAA)
- » [Food Processing and Safety Training for Warm Springs and Yakima Tribes.](#) PI Mark Whitham. (Funding: Columbia River Intertribal Fish Commission).
- » [Developing the Foundation for a Framework for Public and Stakeholder Engagement in a Regional Coastal and Marine Spatial Planning Process.](#) PIs: Stephen Brandt, Oregon Sea Grant, and John Stein, NOAA. A

regional program of West Coast Sea Grant and NOAA programs.

- » **Free-choice Learning: Development of a Cyberlaboratory -- Exploring Customization and Continuity.** Shawn Rowe, Marine Education Learning Specialist. (Funding: National Science Foundation).
- » **Spatially-explicit, High-resolution Mapping and Modeling to Quantify Hypoxia and Oil Effects on the Living Resources of the Northern Gulf of Mexico.** Stephen Brandt, Director, Oregon Sea Grant and collaborators from the University of Maryland and Eastern Carolina University (Funding: National Science Foundation).
- » **Hazard Resilient Coastal Communities: National Climate Survey.** Joe Cone, Assistant Sea Grant Director and Communications program leader (Funding: NOAA).
- » **Climate Variability and Community Resilience: Testing a National Model of State-Based Outreach.** Joe Cone, Oregon Sea Grant, and Susan White, Maine Sea Grant (Funding: NOAA Sectoral Applications Research Program).
- » **Regional Aquatic Invasive Species Research and Outreach.** Sam Chan, Sea Grant aquatic ecosystem health specialist. (Funding: NOAA Sea Grant).
- » **Improving Community Profiles for Oregon Fisheries and Coastal Communities.** Flaxen Conway, Sea Grant Extension/OSU Department of Sociology (Funding: OSU Sustainable Rural Communities Initiative, NOAA Fisheries, Oregon Sea Grant and the Port Liaison Project).
- » **Northwest National Marine Renewable Energy Center: Outreach and engagement.** Kaety Hildenbrand, Oregon Sea Grant Extension, Lincoln County. (Funding: US Department of Energy; additional funding from the the Oregon Wave Energy Trust).



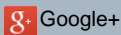
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