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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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