

Update Report

Rasmussen, Kristin

Period: 2/1/2012 - 1/31/2013

Project: R/LME/N-4 - *Planning for Sustainable Shellfish Aquaculture: Identifying Current Activities, Public Perceptions, Conflicts, and Compatibilities*

:: STUDENTS SUPPORTED

Faulkner, Hannah, fauhan24@evergreen.edu, The Evergreen State College, Environmental Studies, status:new, *no field of study*, *no advisor*, degree type:MS, *no degree date*, degree completed this period:No

Student Project Title: *none*

Involvement with Sea Grant This Period:
Intern

Post-Graduation Plans: *none*

:: CONFERENCES / PRESENTATIONS

No Conferences / Presentations Reported This Period

:: ADDITIONAL METRICS

K-12 Students Reached:

Acres of degraded ecosystems restored as a result of Sea Grant activities:

Curricula Developed:

Resource Managers who use Ecosystem-Based Approaches to Management:

Volunteer Hours:

HACCP - Number of people with new certifications:

Cumulative Clean Marina Program - certifications:

:: PATENTS AND ECONOMIC BENEFITS

No Benefits Reported This Period

:: TOOLS, TECH, AND INFORMATION SERVICES

No Tools, Tech, or Information Services Reported This Period

:: HAZARD RESILIENCE IN COASTAL COMMUNITIES

No Communities Reported This Period

:: ADDITIONAL MEASURES

Safe and sustainable seafood

Number of stakeholders modifying practices

Actual (2/1/2012 - 1/31/2013) :

Anticipated (2/1/2013 - 1/31/2014) :

Number of fishers using new techniques

Actual (2/1/2012 - 1/31/2013) :

Anticipated (2/1/2013 - 1/31/2014) :

Sustainable Coastal Development

Actual (2/1/2012 - 1/31/2013) :

Anticipated (2/1/2013 - 1/31/2014) :

Coastal Ecosystems

Actual (2/1/2012 - 1/31/2013) :

Anticipated (2/1/2013 - 1/31/2014) :

:: PARTNERS

Partner Name: California Sea Grant

Partner Name: Northwest Indian Fisheries Commission

Partner Name: Oregon Sea Grant

Partner Name: Washington Department of Ecology, type: government, scale: state

Partner Name: Washington State University Social & Economic Sciences Research Center, type: academic, scale: state

:: IMPACTS AND ACCOMPLISHMENTS

No Impacts or Accomplishments Reported This Period

:: PUBLICATIONS

No Publications Reported This Period

:: OTHER DOCUMENTS

No Documents Reported This Period

:: LEVERAGED FUNDS

No Leveraged Funds Reported This Period

WASHINGTON SEA GRANT ANNUAL PROGRESS REPORT
for the period 2/1/2012 – 1/31/2013

Project Title: NOAA Sea Grant Aquaculture Research Program: Planning for Sustainable Shellfish Aquaculture: Identifying Current Activities, Public Perceptions, Conflicts, and Compatibilities

Principal Investigator(s) and Affiliation:
Kristin Rasmussen, Pacific Shellfish Institute

1. ACCOMPLISHMENTS AND OUTCOMES

Task 1: Assemble and add value to existing GIS map layers of shellfish activities in nearshore areas, relevant infrastructure, and federal, state, and local regulations (georegulations) in WA, OR, and CA.

During this reporting period, the project team met with collaborators at the Washington Department of Ecology to discuss GIS needs and data layers. We also hired a Master's student from The Evergreen State College in Olympia, WA to assist with GIS and spatial analysis activities. During this period, the intern has been coordinating with relevant agencies in Oregon and California to determine data needs and compatibilities. Multiple data layers have been acquired for Washington State.

Task 2: Design and implement surveys to identify local public perceptions of shellfish aquaculture and possible expansion of these efforts in nearshore and adjacent offshore waters.

The project team held a partner meeting to discuss the needs and processes for developing the public opinion survey. The team began compiling a list of relevant stakeholders for the targeted survey as well as a list of potential survey review committee members. WSU Social and Economic Sciences Research Center partners also began work on a draft survey.

Task 3: Provide targeted outreach for coastal decision-makers located in areas with existing or potential for shellfish aquaculture.

Workshops were not scheduled to occur during this reporting period.

2. IMPACTS

No impacts to report during this period.

3. PUBLICATIONS

Please refer to instructions for hardcopy reprint requirements and citation formats.

Peer-reviewed journal articles

Peer-reviewed book chapters

Conference/Workshop activity (talk or poster), Presentation/Seminar (e.g., invited)

Theses and dissertations

Technical reports

Media placements of your WSG-funded work

Other (please use citation guidelines to identify the category of publication and proper citation format)

4. STUDENTS SUPPORTED BY OR AFFILIATED WITH THIS PROJECT

___ Please indicate with a check mark here if no students were involved in the project.

Student Name: **Hannah Faulkner, The Evergreen State College**

Degree track (Ph.D., M.S., M.A., B.S., B.A., J.D., etc):

Whether degree was completed during the reporting window (YES or NO):

New or continuing student on WSG support (NEW or CONTINUING):

Department: **Environmental Studies**

Major/Degree field: **Environmental Science**

Major Professor: **Dina Roberts**

Dissertation/Thesis title (actual or anticipated): **Exploring the relationships between sea ducks and aquaculture in Puget Sound: does aquaculture influence local sea duck population distribution and density?**

Date of graduation (actual or anticipated): **6/2013**

5. PARTNERSHIPS

Washington State University, Social and Economic Sciences Research Center

Oregon Sea Grant

California Sea Grant

Washington Department of Ecology

Northwest Indian Fisheries Commission

6. OUTREACH AND INFORMATION/TECHNOLOGY TRANSFER

(for any activities not captured in the metrics below)

N/A

7. LEVERAGED FUNDS

(projects, sources and amounts – see instructions)

N/A

SEE BELOW FOR PERFORMANCE METRICS REPORTING REQUIREMENTS

8. PERFORMANCE METRICS

A. Economic (market and non-market) benefits derived from Sea Grant activities.

CATEGORIES: economic benefit (\$), businesses created, businesses retained, jobs created, jobs retained, patents/licenses.

Economic benefit category (limited to list above)	Description	Actual (2/1/2012-1/31/2013)	Anticipated (2/1/2013-1/31/2014)
[EXAMPLE] Economic benefit (\$)	Sea Grant brokers lane agreements annually with West Coast crab fishermen and towboat companies, minimizing usage overlap. Reduced interaction between these industries decreases the need for crab gear replacement and reduces towboat repair costs, valued at an estimated \$1 million each year.	\$1,000,000	\$1,000,000
N/A			

B. Number of tools, technologies and information services that are used by NOAA partners/customers (defined very broadly to be very inclusive) to improve ecosystem-based management.

	Actual (2/1/2012-1/31/2013)		Anticipated (2/1/2013-1/31/2014)	
Tool, technology or information service	Developed	Used	Developed	Used
[EXAMPLE] New datasets detailing maturation cycles, fecundity dynamics and genetic relationships of hatchery and wild geoduck are used by shellfish growers to increase the genetic diversity of hatchery-produced geoduck seed.	Y	Y	N	Y
Consolidated GIS map layers of shellfish aquaculture and related information are made available for use by local, state, regional, and national planning bodies.	N	N	Y	N
Data on the social dimensions of shellfish aquaculture are available and utilized to inform planning and outreach decisions.	N	N	Y	N

C. Number of coastal communities (including cities, municipalities, small towns, and neighborhoods that have a cohesive identity) that have adopted or implemented hazard resiliency practices to prepare for and respond to/minimize coastal hazardous events.

		Number of resiliency trainings/technical assistance services <i>provided</i>		Community hazard resiliency improved (e.g., changes in zoning ordinances)? Y/N	
Name of coastal community	County of coastal community	Actual (2/1/2012-1/31/2013)	Anticipated (2/1/2013-1/31/2014)	Actual (2/1/2012-1/31/2013)	Anticipated (2/1/2013-1/31/2014)
[EXAMPLE] Port Angeles, WA	Clallam	1	4	N	Y
N/A					

D. Additional national performance measures - *NOTE: As relevant, the metrics below should correlate with tools, technologies and information services listed above (e.g., fishermen using a new SG-developed technique should match a tool/technology listed above; resource managers using new approaches should match a tool/technology listed above)*

Performance measure		Actual (2/1/2012-1/31/2013)	Anticipated (2/1/2013-1/31/2014)
Number of fishers, consumers and seafood industry stakeholders who modify their practices using knowledge gained in fisheries sustainability, seafood safety, and the health benefits of seafood.	Number of stakeholders modifying practices		
	Number of fishers using new techniques		
Number of coastal communities that have adopted or implemented sustainable (economic and environmental) development practices and policies (e.g., land-use planning, working waterfronts, energy efficiency, climate change planning, smart growth measures, green infrastructure) as a result of Sea Grant activities.			
Number of coastal communities that have restored degraded ecosystems as a result of Sea Grant activities.			
Number of acres of degraded ecosystems restored as a result of Sea Grant activities.			
Number of resource managers who use ecosystem-based approaches in the management of land, water, and living resources in coastal areas as a result of Sea			

Grant activities.		
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E. Focus area metrics – please estimate your contribution to these metrics for the reporting period (2/1/2010-1/31/2011).

Metric	Contribution
Volunteer hours (estimated number of hours that citizens volunteer without payment for their time and services to help a state Sea Grant program accomplish the goals and objectives of its four-year plan)	
K-12 students reached (estimated number of K-12 students who attend a Sea-Grant sponsored event as well as the number of students reached by teachers who have utilized information from a Sea Grant project)	
Curricula developed (number of curricula developed with Sea Grant support, assistance or influence, including formal education courses, school or university instructional materials, lesson plans, audio-visual materials, teacher guides and textbooks.	
Sea Grant-sponsored/organized meetings, workshops and conferences (number of events for which Sea Grant support was integral – planning, financial, personnel contributions)	
Attendees at Sea Grant-sponsored/organized meetings (estimated number of attendees at the events counted in the preceding metric)	