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**Sea Grant Extension Assembly  
SG Week 2014 Business Meeting  
Monday, September 8, 2014 (1:30 – 5:30 p.m.)  
Mandalay Room**

**Meeting Minutes**

**1:30 – 1:50 – Call to Order**

- Roll Call – D. Okimoto  
-28 Sea Grant program representatives present; not present: Alaska, Illinois-Indiana, Lake Champlain, Massachusetts-Woods Hole, Rhode Island. Other attendees: Mike Liffmann, Cody Monroe, Lisa Nakamura, Dale Baker, Cheryl Teagle, Maia McGuire, Chris Hayes, Byung Gul Lee, LaDon Swann, Gordon Grau, Christine Hale, Steve Sempier, Stephanie Otts, Matthew Bethel, Fredrika Moser, Larissa Graham.
- Treasurer’s Report – D. Okimoto  
- Assembly treasure account balance as of 9/8/14: \$6371.08
- Chairman’s Report – J. Falk (see attached presentation entitled “Chairman’s Report”)

**1:50 – 3:00 – Assembly Reports**

- NSGO Update – M. Liffmann (see attached presentation entitled “NSGO Update”)  
-Questions/topics raised by the presentation:
  1. Aquaculture NSI focused on research or extension? Mike: Not sure at this time. Conservative amount is \$2M available and may be up to \$5M.
  2. Goals and measures for NSI? Plan for moving on? Mike: Sea Grant model has worked but need feedback from the Sea Grant network on whether NSGO should continue to support for example social science efforts.
  3. Information on HUD RFP? Mike: Details coming out very soon.
  4. Land grant/Sea grant connections: surveys by Pam Plotkins (Texas) on Sea Grant research and a second survey by Frederika Moser (Maryland) on research/extension integration
- Funding Extension Positions/Programs – K. Bunting-Howarth (see attached presentation entitled “Sea Grant Assembly Funding Survey”)  
-Discussion/Comments following the presentation:
  - Topic raised about university foundation grants: one Sea Grant program sat down with their foundation and was asked for a list of 15-20 stakeholders with deep pockets for the foundation to approach.
  - Ann: Pennsylvania working with their university foundation on securing donations/funding. They were turned down the first time they submitted a foundation proposal but had built a good relationship with the foundation--but it’s not easy.
  - Frank: Ohio works with its university foundation to raise funds for Stone Lab student scholarships
  - Marty: Florida has a couple of foundations on its advisory board who contribute funding for student scholarships. The program also takes them to Washington DC for meetings. Important to cultivate these relationships and find out what they (foundations) are interested in and then do the ask.



# Sea Grant Extension Assembly

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- Best practices for managing staff that go after extramural funding? One program has a minimum limit in funding amount to go after.
  - Frank: Guideline at Ohio is at least one month's salary + fringe and work should be useful to local clientele.
  - Pete (New Jersey): Agreed with Frank but said that one may have to go after a small grant to initiate a relationship with funding agencies.
  - Jesse (Minnesota): Put a little bit of salary in grants and use that salary savings to fund more research (1-3 extra research projects funded this way in Minnesota)
  - Eric (Pennsylvania): In the past Sea Grant salary support was a state line item on the budget and gave them the freedom to do what was important but now grants dictate the type of work being done.
  - Dave B. (Mississippi): Situation where funding may run into an advocacy conflict?
- Extension/Research Discussion – D. Hansen (not present)
  - J. Falk: discussed this with the Assembly.
  - Two questions that Dave H. queried the Assembly on:
    1. Can your extension folks be PIs on competitive grants funded by your research omnibus?
    2. Are you extension folks required to do the outreach on funded projects?
  - A discussion ensued that focused on what the questions were really asking for. May need to do a follow up survey to query the network. Shelby (Oregon): Oregon is interested in finding out what the network is doing regarding these two questions because at this time their extension faculty is not allowed to compete for research funding.
  - Laura (Guam): We are teaching researchers how to do outreach in Guam.
  - Jack (North Carolina): This is also North Carolina's model.
- Introduction of Oil Spill Extension Specialists, Gulf Region – S. Sempier (see attached presentation entitled "Sea Grant Oil Spill Science Extension Program in the Gulf of Mexico")

## **3:00 – 3:30 – BREAK**

## **3:30 – 4:35 – Assembly Reports (continued)**

- Sea Grant Academy – D. Hansen (not present)
  - M. Liffmann: Sea Grant Academy will take place in 2015 and hosted by Oregon. First part will take place at the SGA spring meeting in March 3-4, 2015 in Maryland; second part will occur six months later in Oregon. Dave Hansen will manage the Sea Grant Academy. Cost will be \$1500 per person and doesn't include travel to both sites. Priority is for extension faculty first but others from the network are welcome.
- Citizen Science Project – T. Johnson/B. Bisson (see attached presentation entitled "Sea Grant Citizen Science Inventory A Work in Progress")
- Sea Grant Social Science Network – Chris Hayes (see attached presentation entitled "Advancing Social Science in Sea Grant")
- Extension Networks: FEN, Climate, SCCD – Network Liaisons
  - FEN: Jen McCann (not present)
  - Tammy Johnson provided the following update:
    - FEN has an active facebook page and is using eXtension to post past presentations
    - FEN is making advancements with NMFS on several areas of mutual interest
    - FEN is quite active in brainstorming ideas for \$500 from Assembly



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-Climate: Jesse Schomberg (see attached notes)

- The Sea Grant Climate Network (SGCN) was established and charter approved by the SGEA in 2009 to increase the effectiveness of Sea Grant climate programming and outreach nationwide by coordinating Sea Grant climate-related activities, sharing talent and resources, and working with climate agencies and organizations within NOAA and the communities we serve.
- Since then, SGCN has organized two national workshops and continues to support network interaction, communication, resource sharing, and talent sharing related to climate change among Sea Grant outreach personnel across all focus areas.
- Primary communications conducted through an email listserv, [sgclimate@lists.ncsu.edu](mailto:sgclimate@lists.ncsu.edu); list serv membership is open to all Sea Grant employees and those interested in joining should contact Jess Whitehead via email ([j\\_whitehead@ncsu.edu](mailto:j_whitehead@ncsu.edu)).
- Sea Grant-day at NAF: On behalf of SGCN and CCD, Joshua Brown from NSGO secured a meeting room for an all-day Sea Grant joint climate meeting to be held on May 11, 2015, in St. Louis, MO, in conjunction with the National Adaptation Forum. SGCN members are drafting ideas and reaching out to create a planning committee composed of both SGCN and CCD members to plan the meetings and submit proposals for oral and poster sessions at the NAF.
- New in 2014-2015, the SGCN is initiating a webinar series. This series, with a targeted monthly frequency, will allow individual Sea Grant programs to highlight their climate related work for a national audience. To maintain national interest, webinars will rotate representation among the eight sub-regions. The webinar format will be a 20-30 minute presentation, with the remaining time in the hour focused on question and answer and interactive discussion on lessons learned and transferability. The first webinar is scheduled for Tuesday, September 30, when Juliana Barrett of Connecticut Sea Grant will give a webinar titled “Working with CT’s Coastal Communities in the Aftermath of Major Storms – Collaborations and Barriers.”
- Steering committee: monthly via telephone conference to discuss regional updates and other SGCN business.
- Current co-chairs: Alyssa Newton Mann and Jess Whitehead; Regional chairs: Esperanza Stancioff (Northeast), Jess Whitehead (Southeast), Mona Behl (Gulf Coast), Rochelle Sturtevant (Great Lakes), Jamie Mooney/Alyssa Newton Mann (Pacific Coast), and Tara Owens/Andy Bohlander (Hawai’i/Pacific Islands).
- Jesse Schomberg is the Liaison to the Assembly of Extension Program Leaders. Chairs for the Mid-Atlantic and Alaskan regions are vacant; interested applicants for these positions may contact SGCN co-chairs.

-SCCD: Jim Falk

- Assembly liaison to SCCD network/quarterly conference calls/fairly active and got rid of ning site/going live soon with facebook page and developing a resource library for grey literature and other work/organizing annual meeting in conjunction with TCS and ERRS in November (day before)-will be social science training at SCCD meeting/registration for meeting/contact Jim Falk for more information/Question of whether agenda is available?



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- **Pew Charitable Trust Collaboration – A. Faulds (5 minutes)**
  - Had a follow up meeting with Pew with their ocean group to find out more about ecosystem-based management projects that are non-advocacy and have mutual benefits for both sides. We're looking at low hanging fruits (e.g., information exchange and sharing ideas).
  - Question raised about engaging FEN on this. We're just starting the conversation with them and need guidance on how to proceed. Suggestion: Engage FEN council and discuss their involvement in engaging Pew
  - M. Liffmann.: suggested engaging Pew and find out what research that they've done and educating them about our work
  - Mark R.: Pew visited Georgia Sea Grant and were interested in funding an exhibit on sharks at the Georgia Aquarium
  - Stephanie: What is our stakeholders' perception of Pew science?
  - Frank: Perception is reality. Sometimes things may not be worth it.
- **Regional Updates – Regional Chairs**
  - J. Falk: Asked regional chairs to present one to two highlights from their regions and to provide the written notes to Darren for inclusion into the minutes.
  - Northeast - Beth: Planning next regional meeting in Maine in Nov. 2015 on theme looking at resilience at the regional level and how to move forward on the NSIs and advance research to outreach efforts.
  - Mid-Atlantic - Tom: had regional meeting in the spring. Developed guidelines for the mid-Atlantic regional network. Jack is stepping down as regional chair shortly. We had a regional project that began in September of this year.
  - Southeast - Marty: He attended the mid-Atlantic regional meeting. The Southeast region has been inactive in the last few years so his goal is to try and get this going.
  - Gulf Coast - Rex: The Trade Adjustment Act project just wrapped up. Initiated a new regional project involving four Sea Grant Gulf coast oil specialists.
  - Pacific - Jim Fawcett: Alaska is engaged in work force training. Washington hired a new Associate Director Brian Kirk who will oversee extension activities. Oregon hired a new Director Shelby Walker. California: Paul Olin is doing work on increasing coho salmo numbers. Hawaii conducted a big program on sustainability. USC: Alyssa is involved in adapting the city of Los Angeles for issues related to climate change.
  - Great Lakes - Kathy: The coastal storms program is active in Great Lakes and has implemented a small grants program for the region. The Great Lakes had regional meeting in June. Frank (Ohio), Eric (Pennsylvania) and Jurij (Lake Champlain) will be retiring. Lake Champlain will host the next regional meeting in 16 months.
  - Chris Hayes: Queried the Assembly to find out what the priorities are for \$2.5M NSI funding. No decisions have been made by NSGO if current NSIs will be continued and is seeking feedback from the network on how to best utilize these funds.

#### **4:35 – 5:10 – Assembly Business**

- **By-laws Review – Excomm Officers**
  - J. Falk: Question: Do we need to tweak anything? The bylaws were amended in February of 2014. He suggested that the Assembly review the bylaws on an annual basis and tweak it as needed.
- **Fall Elections – 2 positions to fill: Chair-elect and At-large – Excomm Officers**



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-J. Falk: Will create a nominating committee to reach out prospective candidates to fill the positions. The process will involve a few conference calls to discuss prospective candidates and then approaching the candidates to gauge their interest. Jack and Marty volunteered to serve on committee along with Jim.

- Archiving Assembly Material – J. Falk  
-J. Falk: Looking for an idea from the Assembly on archiving material. Ideas ranged from storing past information on the existing website and making it password protected. Other ideas included using Google Drive, Basecamp, Dropbox. Jim will discuss this with Pat Kight at Oregon Sea Grant who maintains our website.
- Identify location for 2015 Assembly Meeting with Communicators – J. Falk  
-J. Falk: Threw out the idea of the New England/North East region to host next meeting maybe sometime in November of 2015.  
-Stephanie: FYI, Working Waterfronts conference will take place on November 16-19.  
-Mark: Question of whether this meeting could be held in conjunction with another national meeting? Nancy  
-Nancy: Maybe this meeting could be hosted with the SGA meeting next fall?  
-Dave B.: Suggested hosting the meeting in conjunction with fisheries commission meetings in the Northeast
- Website Maintenance/Update – J. Falk, T. Murray  
-J. Falk: Put out idea of having someone in the Assembly take ownership of the website, work with a committee to update the information on the website, and reach out to network for information on keeping things fresh.  
-Tom: Offered to take this activity over for 2 years at VIMS when Tom steps in as Assembly Chair.  
-Discussion: Question brought up on where does the website reside after that? Idea of paying for a site and have the responsibility for maintaining change with the Assembly Chair. Need to decide on who is the website for? Shelby: Oregon can continue to host the site but if more interactive site is needed can go to a paid site.  
-J. Falk: The next Excomm call is next month and may form a committee to discuss options to consider.
- Presentation of a plaque by Tom Murray to Jim Falk for outstanding leadership as Assembly Chair.

#### **5:10 – 5:30 – Miscellaneous Topics**

- State's Organization for Boating Access (SOBA) Collaboration – J. Falk (not discussed)
- Offshore Aquaculture Issues in Pacific Region – J. Fawcett  
-Information is nonexistent and thus Paul and Jim are working on a conference at UCLA to get a handle on regulatory conflicts. The conference is partially supported by the Sea Grant Law Center and will take place in March 13, 2015 and will generate at least six papers.
- Extension Disaster Education Network (EDEN) – J. Thigpen/K. Bunting-Howarth  
-Jack: EDEN started off in 1990's in Mississippi river. USDA through land grant colleges started virtual and real extension network for disaster preparation and recovery. Jim Murray, Bob Bacon, and Jack went to an EDEN meeting and were asked to join as members. Currently 8 Sea Grant programs now part of EDEN. Would like other Sea Grant programs to participate.



# *Sea Grant Extension Assembly*

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-Kathy will take over for Jack as the Sea Grant liaison for EDEN—sent out a couple of emails regarding information on the climate change work funded by National Science Foundation. EDEN is trying to figure out how they can become more competitive nationally.

- SCCD Travel Funds – J. Falk  
-J. Falk: plug for the SCCD network to extension program leaders to provide travel funds to staff to attend SCCD meeting.
- Stephanie: The National Agriculture Law Center formed a partnership with the Sea Grant Law Center. The Sea Grant Law Center will examine land grant's role in aquaculture and will be putting out a needs survey to cooperative extension.

# Sea Grant Extension Assembly Business Meeting

## Chairman's Report

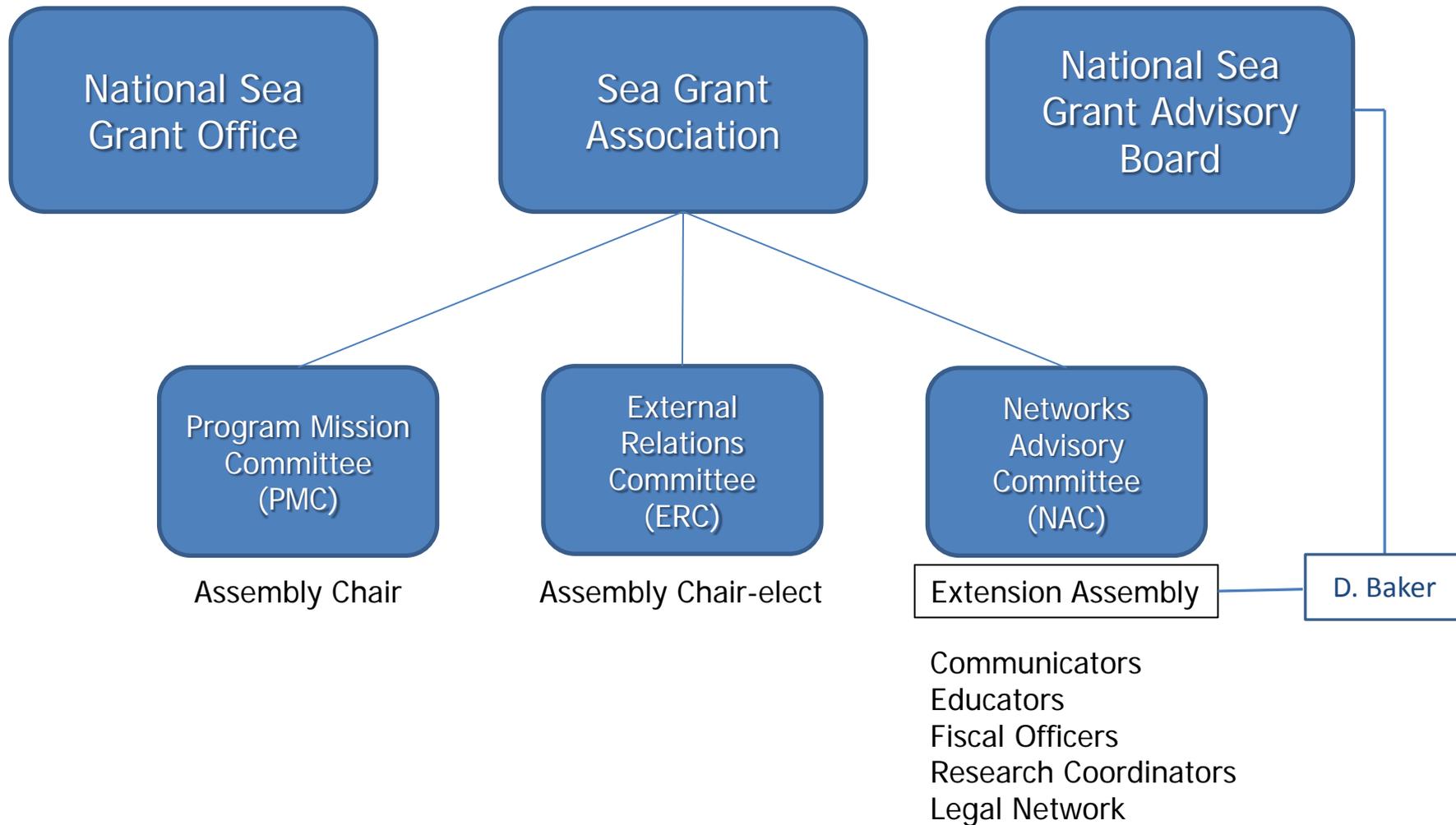
Sea Grant Week  
Clearwater Beach, FL  
Monday, September 8, 2014



Sea Grant Extension Assembly formed  
-1994/1995-

“Loose” Marine Advisory Network  
Chair served as Liaison to Council of  
Sea Grant Directors  
-Pre 1994/1995-

# Sea Grant Network Organization





# *Sea Grant Extension Assembly*

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## Purpose

- Facilitate communication and interaction among the Sea Grant Extension (SGE) programs and with others in and outside of the Sea Grant network.
- Improve the delivery of science-based information to constituent groups at the local, regional and national levels in support of the Sea Grant mission.

## Functions

- Represent SGE programs in relations with other organizational entities both within and outside of the Sea Grant network.
- Provide a forum for the discussion of issues of importance to Sea Grant and SGE programs.
- Support and encourage innovative extension programming at all levels, and increase cooperative programming and talent sharing within the SGE network (SGEA Networks).
- Encourage recognition of outstanding performance by current SGE professionals and of the contributions to SGE by former colleagues (Superior Outreach Award, Wick Award).
- Support and encourage regional and national SGE program efforts (e.g. CoPs)

# Assembly Leadership (Executive Committee)

Chairman – Jim Falk (DE) - 12/31/14

Chair-Elect – Tom Murray(VA) 12/31/14

Secretary/Treasurer – Darren Okimoto (HI) – 12/31/16

At-Large – Jen McCann (RI) – 12/31/14

At-Large – Jesse Schomberg (MN) 12/31/15

## Sea Grant Regional Representatives

Northeast – Beth Bisson (ME)

Mid-Atlantic – Tom Murray (VA)

South Atlantic – Marty Main (FL)

Gulf Coast – Rex Caffey (LA)

Pacific – Jim Fawcett (USC)

Great Lakes – Kathy Bunting-Howarth (NY)

NSGLC – Stephanie Showalter-Otts

# State Program Leadership Changes (~ 2 Years)

Alaska

Torrie Baker

Florida

Marty Main

Georgia

Mark Risse

Maryland

Andy Lazur

Massachusetts (MIT)

Robert Vincent

Michigan

Heather Triezenberg

New Hampshire

Julia Peterson

South Carolina

Susan Lovelace

Texas

Josh Gunn

Washington

Brian Kirk

Wisconsin

(Vacant) - Searching

Others?

# Assembly Website

Hosted and maintained by Oregon Sea Grant

seagrant.oregonstate.edu/asgepl/

Find people and pages Search

**OSU**  
Oregon State University

Oregon Sea Grant

Assembly of Sea Grant Extension Program Leaders



Assembly of Sea Grant Extension Program Leaders

- About ASGEPL
- ASGEPL directory
- Meetings & Minutes
- Publications & documents
- Awards & Recognition

The Assembly of Sea Grant Extension Program Leaders (ASGEPL) facilitates communication and interaction among the Sea Grant Extension programs and with others in and outside of the Sea Grant network and improves the delivery of science-based information to constituent groups at the local, regional and national levels in support of the Sea Grant mission.

Oregon Sea Grant maintains this site as a service to the National Sea Grant network. Please direct questions about the Assembly to its current chair. Questions about the site may be directed to [sea.grant.web@oregonstate.edu](mailto:sea.grant.web@oregonstate.edu).

» Printer-friendly version

**CONTACT INFO**  
Oregon Sea Grant  
Oregon State University  
322 Kerr Admin.  
Covallis OR 97331-2131  
Phone: 841-733-2744  
FAX: 541-737-7956  
[Seagrants.us@osu.edu](mailto:Seagrants.us@osu.edu)  
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Oregon State University  
UOOS/ASG

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 Twitter  
 YouTube  
and more

**ABOUT THIS SITE**  
[Accessibility](#)  
[Credits](#)



<http://seagrant.oregonstate.edu/asgepl/>

# Basecamp

https://basecamp.com/2109544/project... Basecamp LLC [...] Sea Grant Association: SGA... x

Launchpad Basecamp: Sea Grant Association Basecamp Classic Projects

New features Sign out

Help Basecamp **New stuff!** Projects Calendar Everything Progress Everyone Me

Jump to a project, person, label, or search...

## Sea Grant Association: SGA Delegate Communication

### Sea Grant Reauthorization

Posted by Joel Widder on Jul 23



The Sea Grant Reauthorization bill was just marked up and favorably reported out unanimously by the Senate Commerce, Science, and Transportation Committee. The bill the committee approved is the one I circulated to all Sea Grant delegates on July 21.

Discuss this message



**LaDon Swann**  
Nice job all around. Next step is the House right?

LaDon Swann, Director  
Mississippi-Alabama Sea Grant Consortium  
Auburn University Marine Program  
251-648-5877

# Sea Grant Advisory Board



SGAB Reports (2000 – 2013)  
NSGO Website

# Awards

William Q. Wick  
(1994)

# Wick Award Recipients (N=25) (1994 – 2013)

<b>Year</b>	<b>Awardee</b>	<b>SG Program</b>	<b>Award</b>
1994	Sid Cleveland	New York	Visionary Career Leadership
1996	Bob Jacobson	Oregon	Visionary Career Leadership
1998	Bruce Wilkins	New York	Administration
1998	Hank Pennington	Alaska	Programming
2000	Joe Halusky	Florida	Programming
2002	Al Miller	Wisconsin	Administration
2002	Terry Nosho	Washington	Programming
2004	David Harrington (posthumously)	Georgia	Programming
2004	Phil Keillor	Wisconsin	Programming
2004	Bud Griswold	NSGO	Administration
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2006	Bob Goodwin	Washington	Programming
2006	Jim Good	Oregon	Programming
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2008	Ralph Rayburn (posthumously)	Texas	Administration
2008	William DuPaul	Virginia	Administration
2008	Christopher Dewees	California	Programming/Administration
2008	Sara Peck	Hawaii	Programming
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2010	Donald Sweat	Florida	Programming
2010	Eric Olsson	Washington	Programming
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2013	Michael Voiland	North Carolina	Administration
2013	Ken Gall	New York	Programming

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2013	Ken Gall	New York	Programming

# Awards

Superior Outreach  
Programming Award (SOPA)  
(2003)

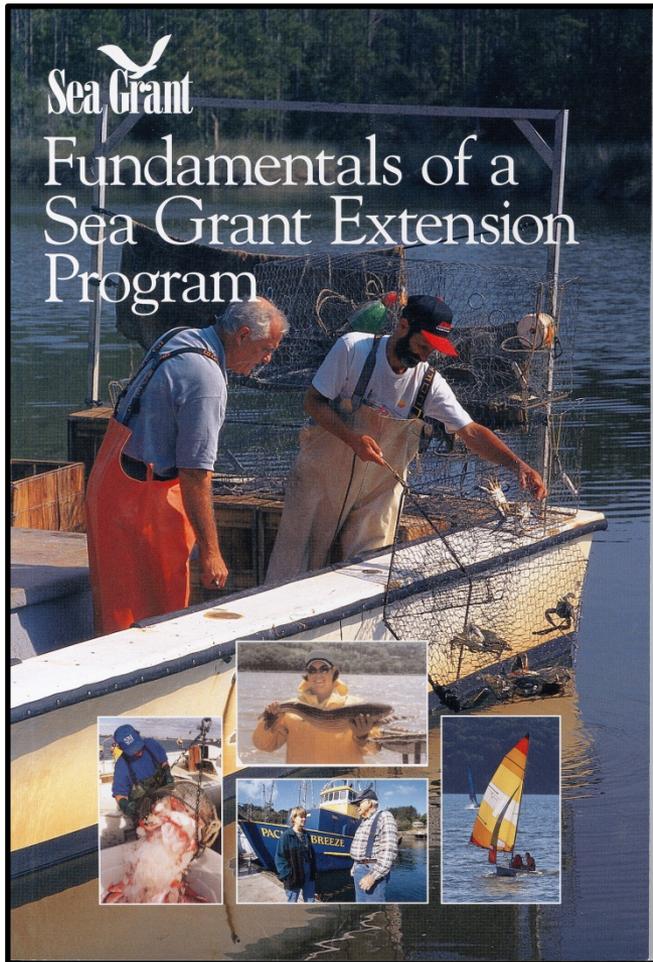
# Superior Outreach Programming Award

Year	Title	SG Program
2003	Recreational Boating Waterway Management Program	Florida
2005	Groundfish Disaster Outreach Program	Oregon
2007	Hurricane Katrina and Rita Recovery and Response	Louisiana
2010	The Starfish Flingers: Texas Sea Grant Extension's Hurricane Ike Response	Texas
2012	Alaska Shellfish--Safe Subsistence Harvest and Economic Diversity in Coastal Communities: Outreach, Technical Assistance and Applied Research	Alaska
2014	To be awarded at SG Week 2014	

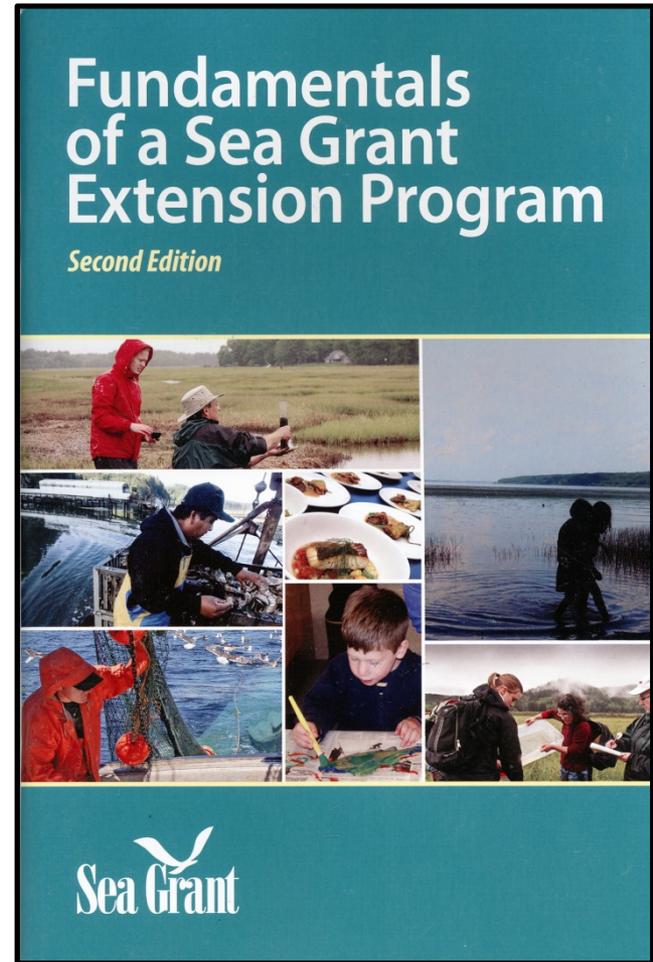
# Sea Grant Academy

- National Sea Grant Academy started in 2005
- SG Academy IV held March, 2013 (Lansdowne, VA) and October, 2013 (Duluth, MN)
- **44** Sea Grant staff participated to learn about planning for evaluation, grantsmanship, advocacy vs. honest broker, group facilitation, working with advisory committees, working with the new social media, and time management
- To date, the Academy has trained more than **130** Sea Grant professionals from across the network
- Plans are underway for SG Academy V in 2015

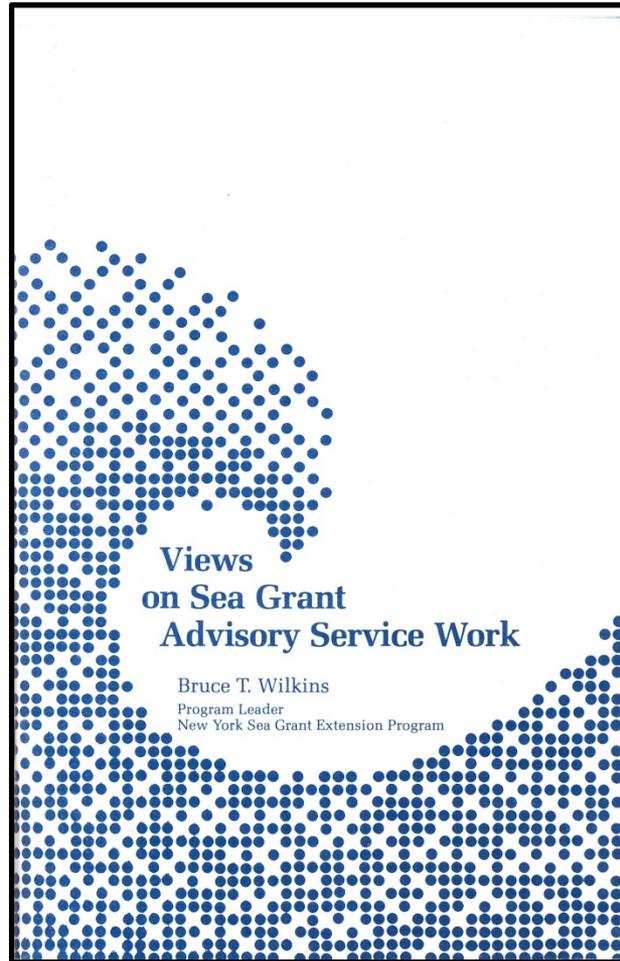




2000



2013



1980

THE ROLE OF  
SEA GRANT EXTENSION PROGRAMMING  
IN AN ERA OF CHANGING FISHERIES

A Report to the Assembly of  
Sea Grant Marine Advisory  
and Extension Program Leaders

July 1997

1987

Regional and National  
Sea Grant Extension  
Programming

Some Issues, Opportunities, and Conceptual Mechanisms  
for Improving Sea Grant's Capabilities

A Discussion Paper to the Assembly of Extension Program Leaders  
September 2000

2000

(Byrne Report)

A Mandate  
to Engage  
Coastal Users

A REVIEW OF THE NATIONAL SEA GRANT  
COLLEGE EXTENSION PROGRAM  
AND  
A CALL FOR GREATER  
NATIONAL COMMITMENT TO ENGAGEMENT

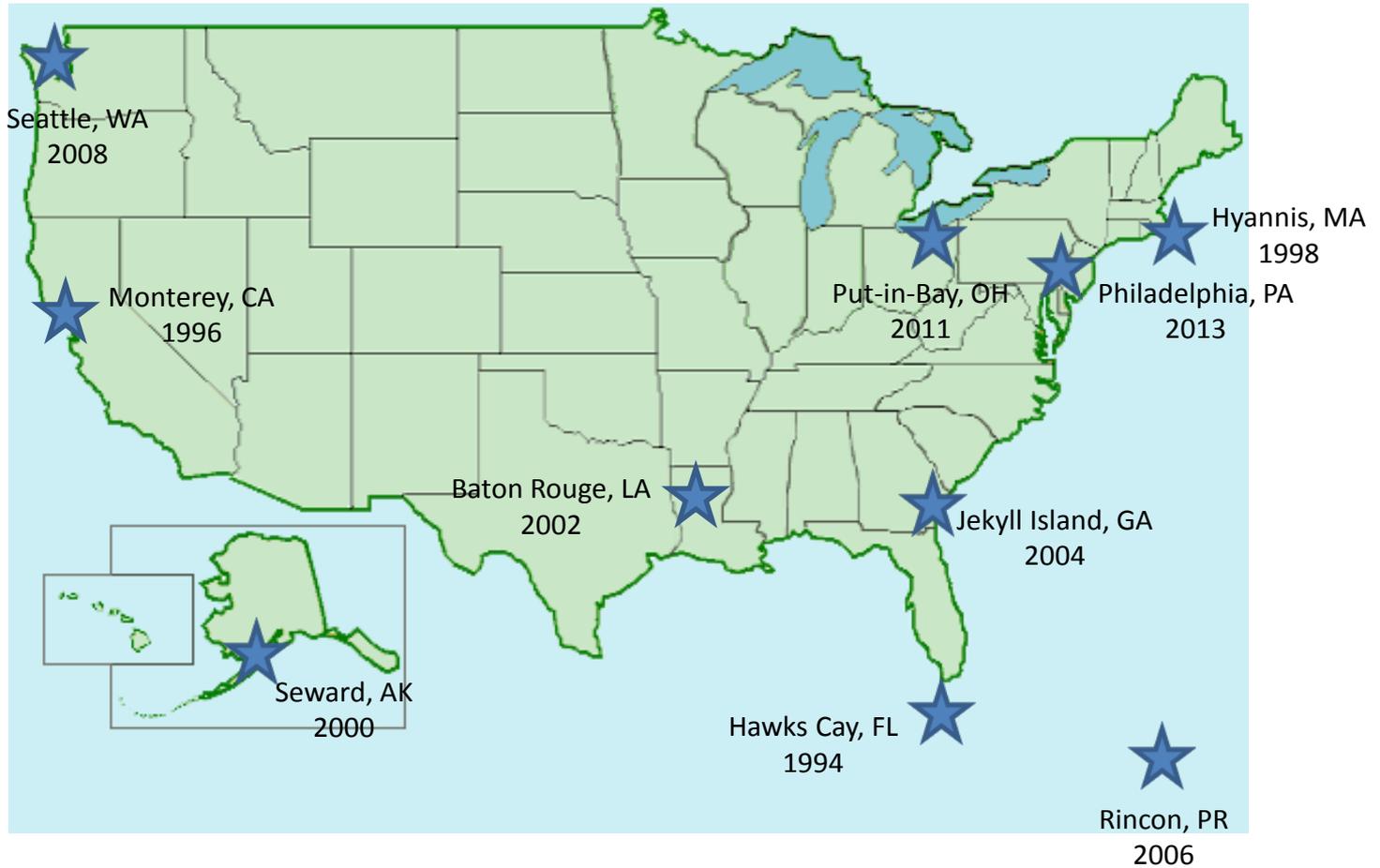
November 2000

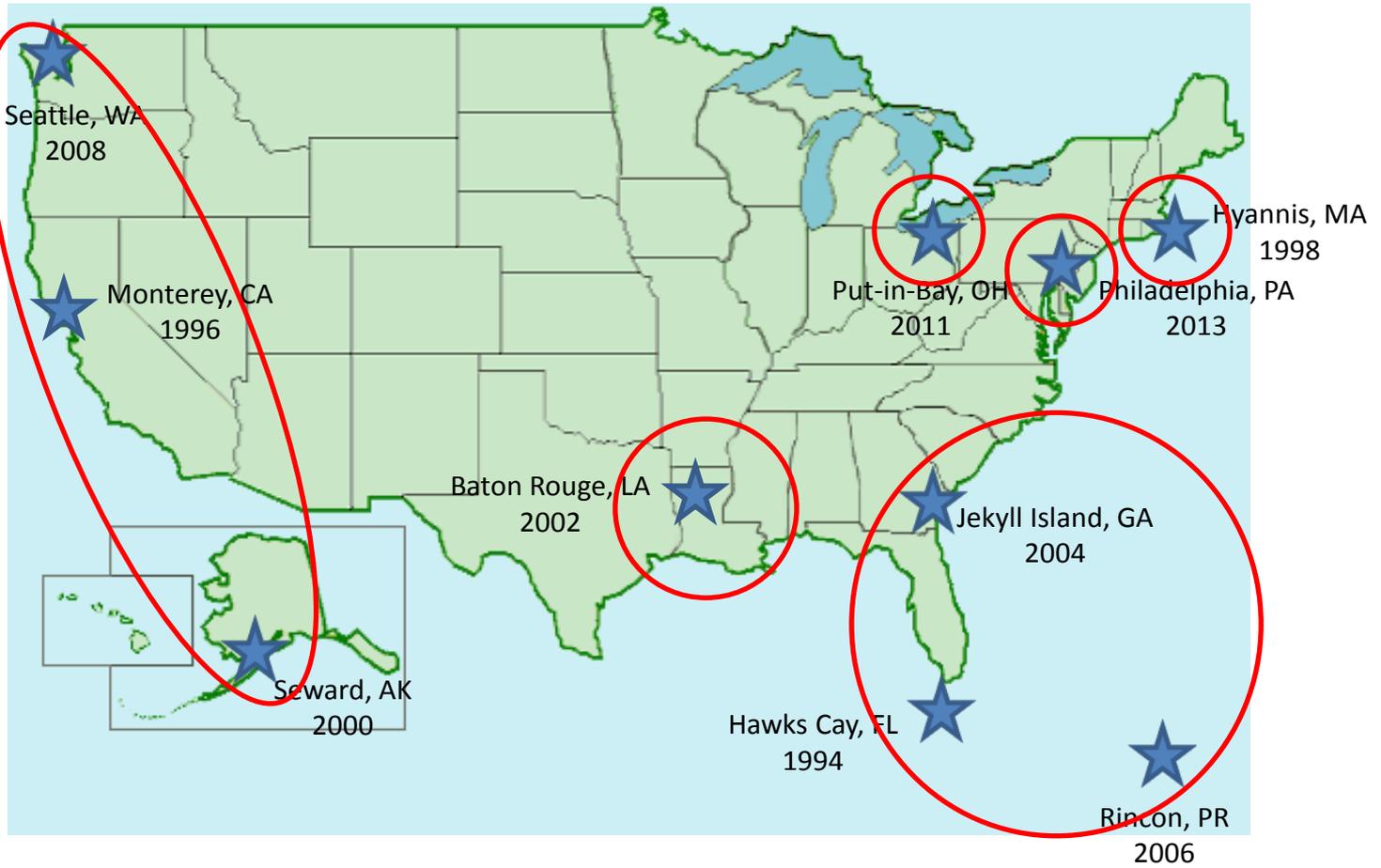
The National Sea Grant Extension Review Panel

2000

# Off-Year Assembly Meeting

# Bi-annual (off-year) Assembly Meetings (1994 – 2013)

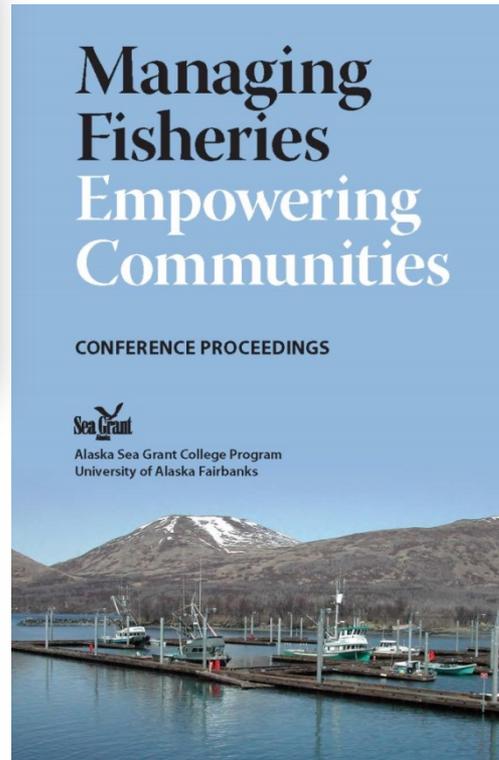




Off Year Assembly Meetings by Region  
(1994 – 2013)

# Formal Extension Networks and Communities of Practice

# Fisheries Extension Network



# Fisheries Extension Network Council




## Fisheries Extension Network Webinar

Wednesday, April 23 from 3-4 pm EDT  
Held in NOAA Library, Silver Spring, Maryland

To join the webinar, go to:  
<https://connect.extension.iastate.edu/marine>  
(call-in number will be provided after you join the webinar as a 'guest')

### Assessing the Vulnerability of Fish Stocks to Climate Change: Methods Explanation & Discussion

**Dr. Wendy Morrison**, Office of Sustainable Fisheries, NMFS  
**Roger Griffis**, Office of Science & Technology, NMFS

The aim of this webinar is to share the methodology and have a discussion with the Sea Grant Extension Network so that they can be prepared to help with outreach and extension when the full results of the vulnerability assessment become available later this summer.

NOAA Fisheries is collaborating with NOAA's Office of Oceanic and Atmospheric Research - Earth System Laboratory to finalize a methodology to rapidly assess the vulnerability of U.S. marine stocks to climate change.

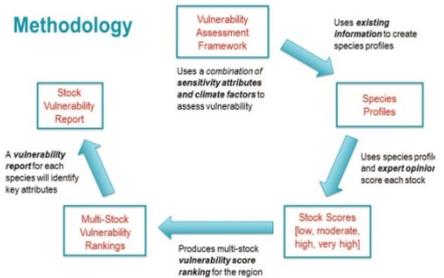


**Contact**  
For more information on NOAA Fisheries efforts related to the assessment methodology please contact:

- Roger.B.Griffis@noaa.gov
- Wendy.Morrison@noaa.gov
- Mark.Nelson@noaa.gov

**More Information**  
[www.st.nmfs.noaa.gov/ecosystems/climate](http://www.st.nmfs.noaa.gov/ecosystems/climate)

**Note**  
NOAA Fisheries will soon provide further background information on the assessment data requirements and implementation details. This methodology is only relevant for fish and invertebrate stocks.



U.S. Department of Commerce | National Oceanic and Atmospheric Administration | National Marine Fisheries Service




## Fisheries Extension Network Webinar

Tuesday, June 10 at 1:00 pm EST  
<https://learn.extension.org/events/1610#U4X51-7dXsU>  
(Call-in number will be provided after you join the webinar as a "guest")

### The Sea Grant Network Responds to Tourism Opportunities in Fishing and Aquaculture

**Dana Morse** - Maine Sea Grant  
**Natalie Springuel** - Maine Sea Grant  
**Bryan Fluech** - Florida Sea Grant  
**Susanna Muscik** - VA Institute of Marine Science Marine Advisory Program



**Contact**  
For questions regarding the webinar please contact:

- dana.morse@maine.edu (207) 563-8186
- nspringuel@coa.edu (207) 288-2944 ext. 5834

**More Information**  
For more information about the Fisheries Extension Network please contact:

- erik.chapman@unh.edu

Tourism can provide financial return for those in commercial fishing and aquaculture, and can also play a role in connecting seafood consumers with seafood producers. The result can be an economic engine that also pays benefits in educating our citizens about the many important issues in seafood production, processing, transport and marketing.

The Sea Grant network of seafood extension professionals has been engaged in this issue for many years, with programs tailored to the local assets, constraints and needs. This webinar will highlight some of these activities from around the network, and will serve to connect extension agents and others together, so that we can learn from one another and facilitate connections for future collaborations.




# Sustainable Coastal Community Development Network



# Sustainable Coastal Community Development Network

## Sustainable Coastal Communities Development Network ANNUAL MEETING

When: Sunday, November 2, 2014

9:30 a.m. —5:30 p.m.

Registration/continental breakfast  
begins at 9:00 a.m.

Where: Gaylord National Resort  
& Convention Center  
201 Waterfront Street  
National Harbor, Maryland 20745



The Sustainable Coastal Communities Development Network (SCCDN) is a system of professionals working to develop vibrant, productive coastal communities in healthy coastal and marine ecosystems. The organization will be hosting its annual meeting in conjunction with the

### 7th National Summit on Coastal & Estuarine Restoration

*Sponsored by Restore America's Estuaries  
and The Coastal Society*

The annual SCCDN meeting will feature :

- ◆ Special training session on environmental economics, including environmental impact analysis and resource valuation
- ◆ Sea Grant lessons learned, featuring select social science/ economic case studies
- ◆ Updates from the National Sea Grant Office as well as regional program updates

In addition, the SCCDN will conduct its annual business meeting, which will include a facilitated discussion regarding "Enhancing Sustainable Coastal Communities Development Network Visibility."

The cost to attend is \$53.74; includes processing fee. Registration and payment (credit card preferred; checks as a last resort ) must be completed by September 30th, 2014 at:

<https://www.eventbrite.com/e/sustainable-coastal-communities-development-network-annual-meeting-tickets-12744937451>

Please click [HERE](#) to complete a survey regarding your interest in attending!

### Planning Committee Members:

**April Turner**— South Carolina Sea Grant

**Mary Penney**— New York Sea Grant

**Lauren Land**— Louisiana Sea Grant

**Elizabeth Bevan**— National Sea Grant Office

**Matt Gonser**— Hawaii Sea Grant

**Bob Swett**— Florida Sea Grant

**Ed Lewandowski**— Delaware Sea Grant

Proceedings sponsored  
in part by the National  
Sea Grant Extension  
Assembly





Climate Change Law  
and Policy in Hawai'i  
Briefing Sheet, 2012



## Adapting to Climate Change in Alaska



Alaska Region



## DELAWARE HOMEOWNERS HANDBOOK TO PREPARE FOR NATURAL HAZARDS



# Climate Network



# Sea Grant Extension National Workshops/Symposia/Meetings

<b>Extension Events 2013</b>			
<b>Dates</b>	<b>Event</b>	<b>Location</b>	<b>Lead SG Program(s)</b>
February	Keeping Pharmaceuticals and Personal Care Products out of the Environment	Jacksonville, FL	Illinois/Indiana
February	<i>WeTable</i> Users Conference	Houston, TX	Texas, Delaware
March	Climate Change Communication Workshop	Santa Monica, CA	USC
March	The 4th National Forum on Socioeconomic Research in Coastal Systems	New Orleans, LA	Louisiana
March	National Working Waterfronts and Waterways Symposium	Tacoma, WA	Maine, Washington
March	Sea Grant Sustainable Coastal Community Development Annual Meeting and Training	Tacoma, WA	Maine, Ohio
April	Sea Grant Academy (Session I)	Leesburg, VA	Texas, Oregon
April/May	Fisheries Extension Network Conference	San Diego, CA	New Hampshire
August	2013 National Extension Tourism Conference	Detroit, MI	Michigan
October	Sea Grant Academy (Session II)	Duluth, MN	Texas, Minnesota
November	2013 Assembly/Communicators Meeting	Philadelphia, PA	Pennsylvania, Delaware

# Extension Assembly Hall of Honor

## 1998 William Q. Wick Award



### Hank Pennington – Alaska Sea Grant

Hank Pennington is recognized by many in the commercial fishing industry as the individual who was most responsible for developing the premier marine safety education program within the Sea Grant system. He was the creator, founding chairman (1985-1987) and board member (1987-present) of the Alaska Marine Safety Education Program (AMSEA). AMSEA is a consortium of thirteen university, public, and private agencies whose mission is to make marine safety education readily available to the commercial and recreational boating public by training a continually growing cadre of marine safety trainers. The foundation laid by Hank's commitment to developing a sound educational program now enables AMSEA's continued expansion of marine safety education. AMSEA now provides over 95 instructor training programs annually. These programs not only occur in Alaska, but also across the lower 48 states. Since its inception, AMSEA has certified more than 2,000 trainers who in turn have trained over 65,000 commercial and recreational boaters. According to the United States Coast Guard, this marine safety instruction in Alaska is a "key factor in reducing at-sea deaths by 50 percent and the drowning rate from 25 to 10 per year since 1991."

## 2011 William Q. Wick Award



**James Murray – National Sea Grant Office**

Jim Murray tenure with Sea Grant spanned five decades and his career path serves as an admirable example of professional advancement opportunities for field staff in Extension. In 1976, Jim joined MN Sea Grant as a Duluth-based Extension Agent. A couple years later he became Extension Director in NJ and capped off his field career with a similar position in NC. In 1998 he became the first field staff person in Sea Grant history to be hired by the National Sea Grant Office (NSGO) as our National Extension Leader. In 2006 he was appointed as the NSGO Deputy Director, a position he held until his retirement. His most significant contributions at the national level was to make Sea Grant, in general, and Sea Grant Extension (SGE) in particular more visible within NOAA and other federal agencies. His work resulted in millions of dollars of new or enhanced SGE programming and partnerships in extension areas such as coastal communities, Smart Growth, fisheries and aquaculture and climate change. Perhaps the most notable example of visionary leadership was the training of new extension agents; working with others within SGE, he was instrumental in helping to develop a two-week training program –Sea Grant Academy- which still functions today.

## 2011 William Q. Wick Award



**Peter Rappa– Hawaii Sea Grant**

Peter Rappa's 31-year career with Sea Grant was highlighted by his raising awareness of sustainable coastal management principles in Hawaii and the Pacific region, promoting the concept of "sustainability" before it became fashionable, and empowering stakeholders to routinely and effectively engage resource agencies and policymakers in the decision-making process. As an example, he contributed to a major overhaul of the state's Environmental Impact Statement system through a series of studies he conducted in 1978, 1991, and 2009 - 2010. He played a major role in developing the Hanauma Bay Education Program, a world-class education program that educates up to 800,000 visitors annually. Peter also recognized the need to bring together the disparate elements of the Sea Grant network conducting the same, or similar work in sustainable coastal development. Along with colleagues, he helped to co-found the national Sea Grant Sustainable Coastal Community Development (SCCD) network. At the local level, he influenced developers and the county planning department to adopt Smart Growth principles through a series of Sea Grant workshops in local communities on Oahu. Peter not only worked *for* Sea Grant, he *lived* Sea Grant.

## 2013 William Q. Wick Award



Ken Gall– New York Sea Grant

Ken Gall focused on supporting seafood – the consumers, industry and food safety research during his Sea Grant career. His programming trained thousands of seafood processors and agency professionals nationwide and internationally to help protect seafood consumers. He saw the need for New York seafood industries to band together and orchestrated the formation of the New York Seafood Council, an industry non-profit organization which disseminates science-based information about seafood through websites and newsletters, helping develop marketing messages and strategies. He understood that DNA fingerprinting methods could be used for the long-term benefit of the industry which led to important research. His expertise was shared through his service – National Seafood HACCP Alliance Steering Committee and manager of Alliance Internet Training course; Technical Advisor to the New York Seafood Council; National Fisheries Institute (NFI); and Smoked Seafood Working Group of NFI and Food Products Association. He embraced technology for delivering research including internet-based training courses and a website devoted to educating the public about seafood safety.

# Future Trends, Challenges and Opportunities

Trend 1 - An aging population living in coastal communities will present new challenges and opportunities for local officials and businesses.

Trend 2 – With the emergence of new technologies and access to information from a variety of sources, stakeholder audiences will have more options for obtaining information to make decisions affecting coastal and marine resources.

Trend 3 - Research funding agencies will continue to focus more attention on addressing societal needs; education and outreach will be major components of research proposals.



1966 - 2016



**RETIREMENT  
AHEAD**

Thank You



2008 William Q. Wick Award



Bill DuPaul– Virginia Sea Grant

# Sea Grant Extension Assembly Regional Representatives

<u>Individual</u>	<u>Region</u>
Beth Bisson (ME)	Northeast
Tom Murray (VA)	Mid-Atlantic
Marty Main (FL)	Southeast
Rex Caffey (LA)	Gulf
Jim Fawcett (USC)	Pacific
Kathy Bunting-Howarth (NY)	Great Lakes

2010 William Q. Wick Award



Jay Rasmussen – Oregon Sea Grant

2013 William Q. Wick Award



Mike Voiland – North Carolina Sea Grant

# Sea Grant Extension Assembly Leadership

<u>Individual</u>	<u>Position</u>	<u>Term</u>
Jim Falk (DE)	Chair	1/1/13 – 12/31/14
Tom Murray (VA)	Chair-Elect	1/1/13 – 12/31/14
Darren Okimoto (HI)	Sec./Treas.	1/1/14 – 12/31/16
Jen McCann (RI)	At-Large	1/1/13 – 12/31/14
Jesse Schomberg (MN)	At-Large	1/1/14 – 12/31/15

## 2014 Election

Chair-Elect (January 1, 2015 – December 31, 2016)

At-Large (January 1, 2015 – December 31, 2016)

2010 William Q. Wick Award



Eric Olsson – Washington Sea Grant

# **NSGO UPDATE**

**Mike Liffmann**

**Program Leader- Extension**

**September 8, 2014**

# Today:

- **2014 is almost over and 2015+ outlook**
- **Site visits- September 2014-September 2015**
- **Possible growth opportunities/initiatives**
  - Some old
  - Some new
  - Could turn into National Strategic Investments
- **Q&A**

## **FY 2014 Rebalancing**

- **Leon's policy memo of 9/6/2014**
- **Source- \$0.5M increase for unspecified base and \$4.5M increase for resilience research**
  - Base funding pool increased by \$3.7M**
  - Merit funding pool increased by \$0.8M**
- **All college and inst. (C&I) programs brought to at least \$1M;**
- **Merit funding increases (25%) went to C&I Programs;**
- **Most of the funding went to smaller and relatively underfunded programs;**
- **No Programs lost base funding;**
- **All C&I Programs received an increase in core funding (base plus merit).**

# FY 2015 President's Budget Request



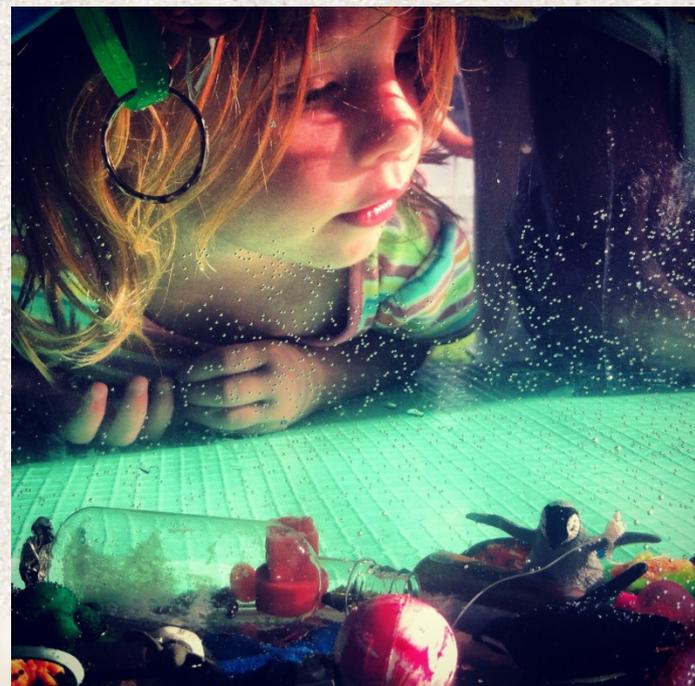
<b>President's Request:</b>	
Sea Grant Base	\$61,369,000
Aquaculture	\$2,000,000

<b>House Budget:</b>	
Sea Grant Base	\$62,000,000
Aquaculture	\$2,000,000

<b>Senate Budget:</b>	
Sea Grant Base	\$62,800,000
Aquaculture	\$5,000,000

## FY 2015 STEM Education

- **Proposed to reorganize 114 STEM education programs within 11 federal agencies**
  - Consolidate within Department of Education, NSF and SI
- **Terminates funding authority for SG doing K-12 teacher training, curricula development, and education**
- **Leaves us the money**
- **Knauss not on termination list; NMFS/SG and K-12 are on list**



## **2014-15 and Site Visits**

- **Only in-person, on-site review of your Programs; five-person Site Review Teams (SRT)**
- **Once every four years;**
- **Meet with key stakeholders, staff, Advisory Bd., university officials;**
- **Help focus campus attention on Sea Grant;**
- **SRTs offer recommendations and suggestions and highlight BMPs.**

# Next fall?

- **Second Performance Review Panels (2010-2013); first Panels met in October 2012**
- **More details to come...**

# Opportunities through closer and new partnerships

- **More closely with NMFS**
  - Barotrauma research and extension
  - NMFS-SG Exchange Program
  - Feedback for NMFS issues:
    - Climate and fishing communities
    - Recreational fisheries policy input
    - Aquaculture policy input
    - Bait and Tackle Survey
- Aquaculture-research and extension

# NMFS- Sea Grant Exchange?

- **Leon's memo of July 30**
- **Involves SG programs and Fisheries Science Centers and Labs**
- **RFP to be issued. SGE agents travel costs will be covered. NMFS employees will only need office space.**
- **Feedback very positive!**

## **More with NOS:**

- **Coastal Storms programming**
- **NOAA Sentinel Site Cooperative Program**
- **NOAA's Natural Infrastructure strategy**
- **Resilience initiatives-working waterfronts ,  
coastal tourism, Smart Growth**

## **More within OAR:**

- **SGE liaison positions within all “wet” labs-  
AOML, PMEL, GLERL and also NSSL**
- **Climate Program Office partnerships on  
projects**
- **Post-Sandy with CT, NY and NJ**

## **Other possible partnerships:**

- **NWS- rip/dangerous currents**
- **USDA and EPA- community climate adaptation**
- **HUD-disaster resilience**
- **FEMA- disaster planning and recovery**
- **Private sector- Pew and Rockefeller foundations, GOMRI**

# **National Strategic Investments-2016+**

- **NSI discretionary funding supports social science and climate adaptation initiatives through FY 2015. \$2.5M**
- **What about FY 2016-17?**
  - **Continue these efforts?**
  - **Transition or shift focus to new initiatives?**
- **SGAB and SGA asked to consider possible areas for investment this week and narrow down to 4 or 5**

# National Strategic Investments-2016+

- **Coastal Community Resilience: Preparing for a Changing Future**
- **Emerging Contaminants**
- **America's Working Waterfronts**
- **Water Resources**
- **Social Science**
- **Restoration of Coastal Ecosystems**
- **Aquatic Invasive Species**
- **Seafood Safety and Traceability**
- **Coastal Tourism**

# Questions? Comments?

- **But first, a formal announcement...**

# Sea Grant Assembly Funding Survey

Sea Grant Week 2014

# Background

- Team formed at 2013 Assembly meeting in Philadelphia
  - Beth Bisson
  - Dave Hansen
  - Andy Lazur
  - KBH
- Decided to use the survey to inspire conversation
- 31 partial responses\*\*\*\*\*

# What tools or mechanisms does your program use to fund personnel and activities?

Answer	Response	%
Competitive Grants	30	94%
State Partnerships	26	81%
Foundations or Other Philanthropic Interests	14	44%
Business-Industry Donors	10	31%
Program Cost Recovery	13	41%
Split Funded Positions (University/Sea Grant/Agency/Private) Please describe below.	25	78%

# Split Funded Positions

Institutes

Most staff are funded from multiple sources

Watershed Council

Sea Grant - Extension Service

Develop grants and contracts

Tenure-track positions with the University and Sea Grant

County Planning

County Economic Development

State Coastal Management Program/Aquatic Resources

State Natural Resource Agency/Environmental Protection

State Extension supports

University -College

Endowment funds

Other Federal Agencies

Does your program either require a certain amount of program generated income/external grant support OR utilize less than FT appointments (11 month contracts)?

<b>Answer</b>	<b>Response</b>	<b>%</b>
Yes	16	52%
No	15	48%
Total	31	100%

# Recent or Historic

<b>Answer</b>	<b>Response</b>	<b>%</b>
Recent	4	24%
Historic	13	76%
Total	17	100%

# Could you describe the pros and cons of this transition?

## Pros

- Partnerships
- Mutually beneficial relationships
- Improves Annual review (ability to secure grants)

## Cons

- Partially funded staff
- Time spent writing grants is huge
- Less time spend on programming
- End up with small pieces on multiple projects
- Reduced control of work-type
- Identity

# What strategy do you use to plan for increases in salary and fringe costs?

Non-strategic attrition

More of the same, with an expectation (though not a requirement) that staff bring in at least 1 month/yr of their own salary through external grants, etc

Ad hoc

We build in small salary and fringe increases into our budgets.

Reduce effort.

Place salary and fringe increases into proposals

Expected increases that usually must come from our own hides

Included in the positions state extension supports

We have flexibility with state appropriation to cover salary/fringe increases.

Salary freezes; staff may not be replaced upon departure from organization.

Transition of discretionary funds to salary, projects must to be externally funded.

Continue to look to develop partnerships for potential shared positions or funding for Sea Grant position.

Yearly evaluations

Salary increases are negotiated for a 3 year period by the faculty union.

## Best Practices regarding attracting external dollars

### Grant partnerships

- .... significant role, not multiple small commitments
- ....constant battle
- ....using the logic model

### Multi-program/ multi-state grant proposals

- .... increase our reach and put more brain cells on a problem or issue
- ....cooperation and networking are a key to obtaining external grants
- ....address community needs
- ....developing consensus is hard work.
- .... avoid projects with numerous collaborators but very little financial support.

Fund salaries with core dollars, attractive partner on many grants, fund smaller %'s of our salary. While less \$ directly, the partnerships lead to significantly more opportunities.

Fixed price contracts with non-federal partners , escrow for use in future years

Form partnerships with agencies with similar goals and share salary and other costs.

Shared positions ... labor intensive as manage competing visions for the position  
....identity may be muddled

Fundraising strategy using partners for connections; foundation accounts for donations

### Regional Grants through Network Activities

- .... Builds collective approaches.; Shares expertise among a wider group
- ....Sharing means small grants, very little salary, lead burdens=reporting & subcontracts

Seeking Joint Position Funding through Extension, instead of University

Share field offices with another NOAA program, extension



I would like to see each program leader develop a graph for their program showing: (1) Core SG funds (2) Match funds (3) External/extramural funds. I would bet for many programs the external/extramural bar would far exceed the other bars.

# Discussion



# Sea Grant Oil Spill Science Extension Program in the Gulf of Mexico



Steve Sempier

Sea Grant Week Assembly Meeting

Clearwater Beach, Florida

September 8, 2014

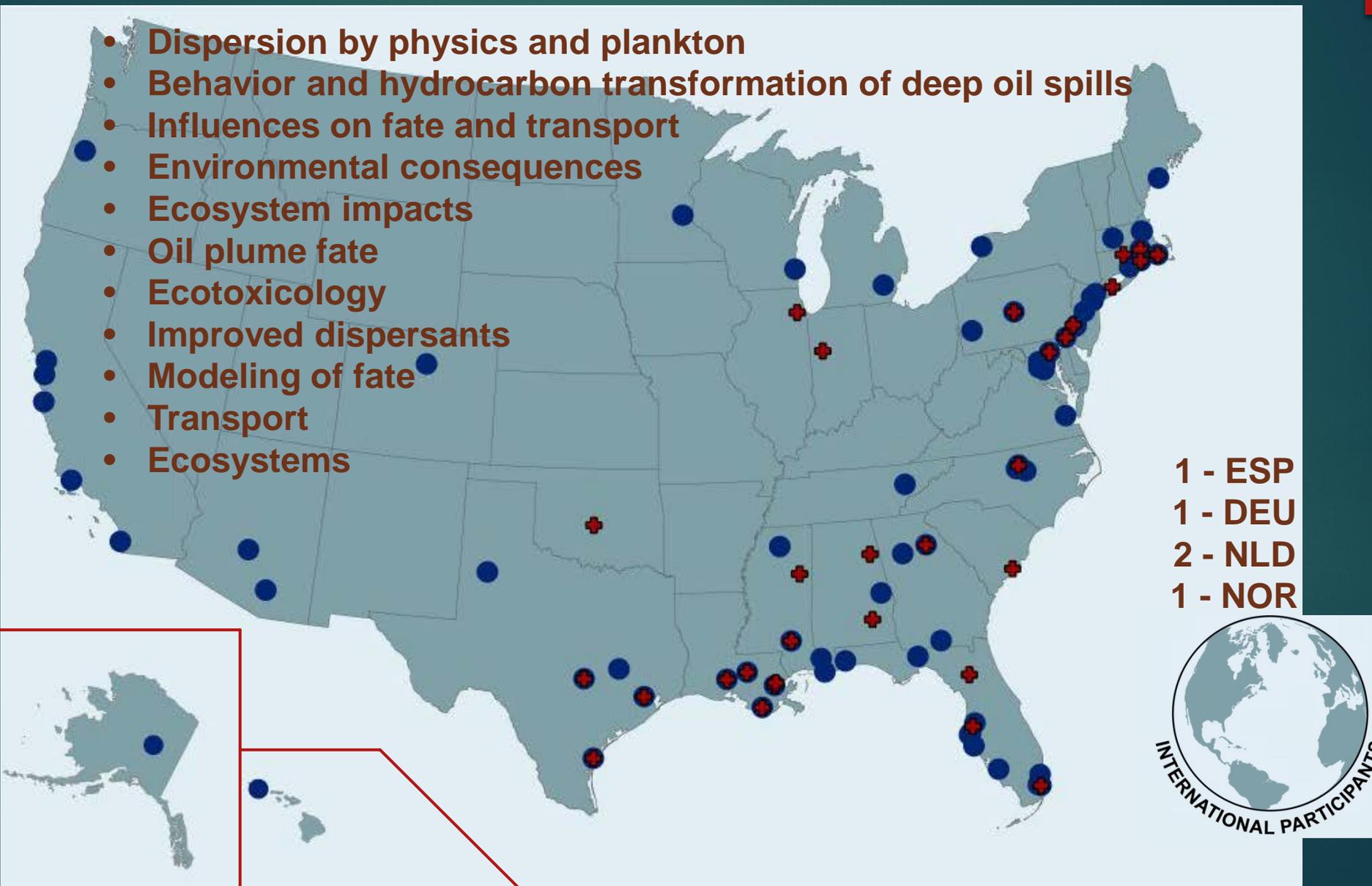


# What is the Gulf of Mexico Research Initiative (GoMRI)?

- ▶ \$500 Million, 10-year investment
  - ▶ \$170 Million allocated already
- ▶ Independent research board
- ▶ Regional governor's alliance (GOMA)
- ▶ Five theme areas
- ▶ Consortia and individual research projects
- ▶ Metric: # peer reviewed publications

[gulfresearchinitiative.org](http://gulfresearchinitiative.org)

# GoMRI Grants (Consortia and Individual)



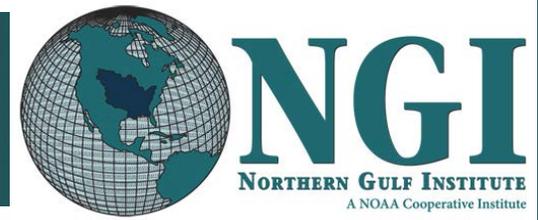
# Value-added Research Results

## CARTHE Surfzone Experiment



# Many GoMRI-supported outreach activities

- ▶ Consortia-led outreach
- ▶ Consortium for Ocean Leadership
- ▶ American Institute of Biological Sciences
- ▶ Northern Gulf Institute (CI)
- ▶ Smithsonian Ocean Portal
- ▶ Screen Scope



# Additional Outreach/Extension Niches to Fill

Audiences



Regional to National Scale



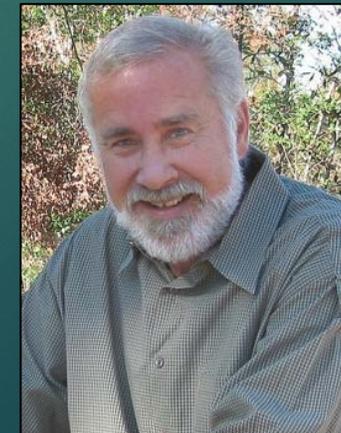
# Sea Grant/GoMRI Oil Spill Outreach Program

- ▶ First large privately funded, regional Sea Grant effort in the Gulf of Mexico
  - ▶ Four specialists devoted to oil spill science
  - ▶ Initial two year investment
- ▶ Major components
  - ▶ Two-way transfer of information
    - ▶ Share oil spill science (bulletins, science seminars)
    - ▶ Identify target audience needs (workshops, meetings)
  - ▶ Evaluation

# Oil Spill Science Extension Specialists

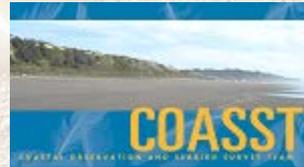
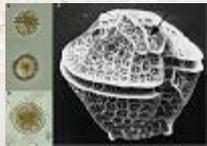


# Acknowledgements



# Sea Grant Citizen Science Inventory

## A Work in Progress



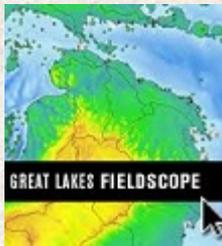
## Tammy Newcomer Johnson

Knauss Sea Grant Fellow

## Beth Bisson

Associate Director of the Maine Sea Grant College Program

## Sea Grant Extension Assembly Meeting



# What is Citizen Science?

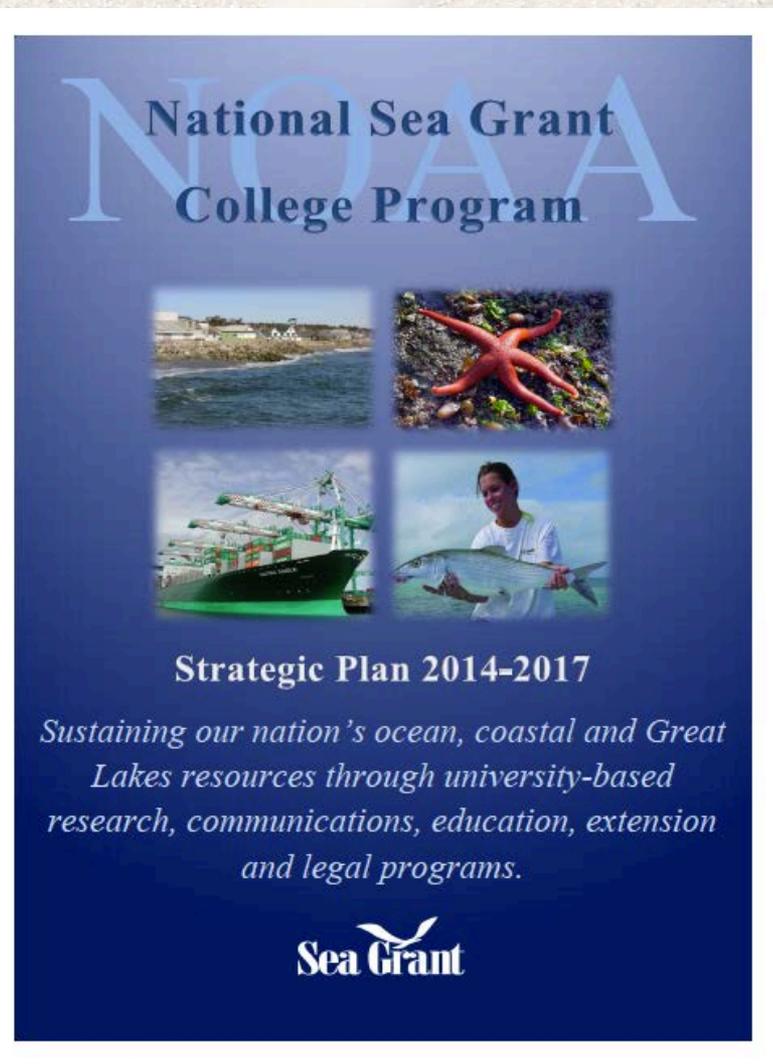
- There is no formal definition, for NOAA or the field
  - Washington Sea Grant has a survey to help answer this question for their state ([www.wsg.washington.edu/citizenscience](http://www.wsg.washington.edu/citizenscience))
- Public Participation in Scientific Research (PPSR) is an alternative term that includes citizen science



Guam-SG

# Alignment with SG's Strategic Plan

- Supports increased research capacity
- Promotes formal and informal education
- New ELWD Focus Area



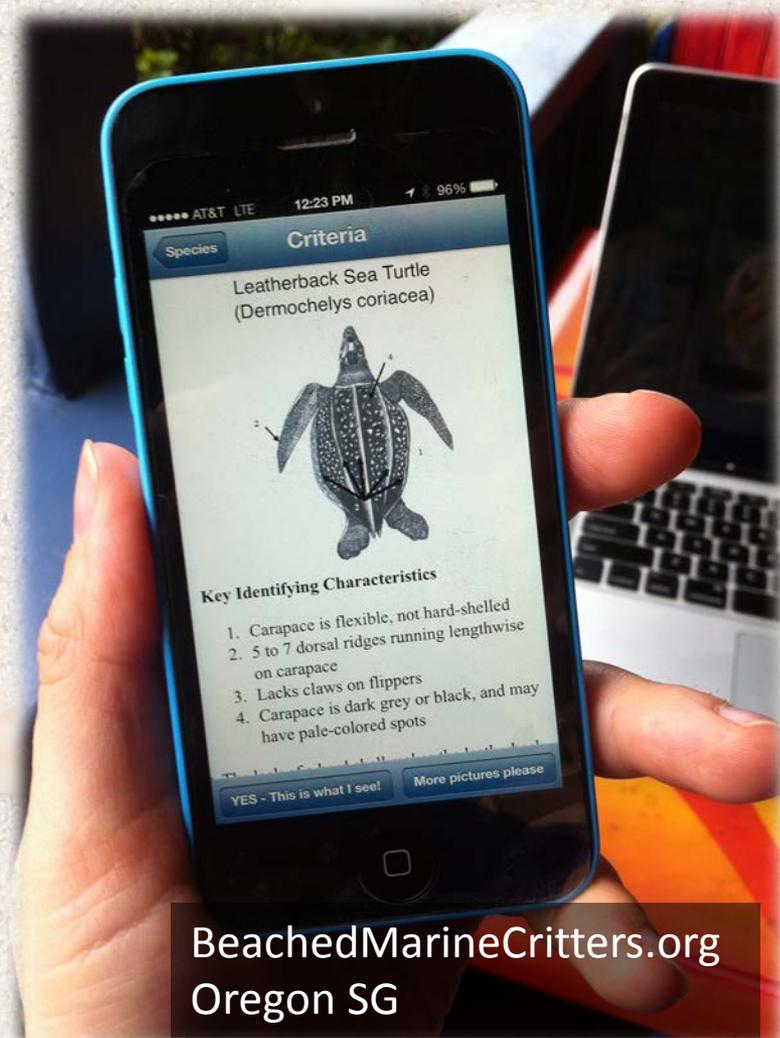
# Working Definition for the Survey

- “projects in which volunteers partner with scientists to collect data to answer real-world questions.”
- For the purpose of this inventory, we are not including:
  - Citizen education programs (e.g., Hanauma Bay)
  - Trash clean-ups
  - Volunteer restoration programs(unless there is collection of scientific data)



# The Field is Growing

- Emerging technologies present new opportunities
  - Mobile devices for data collection and reporting, communication in the field
  - Web 2.0 (e.g., blogs, webinars, social media) empower communities and interaction

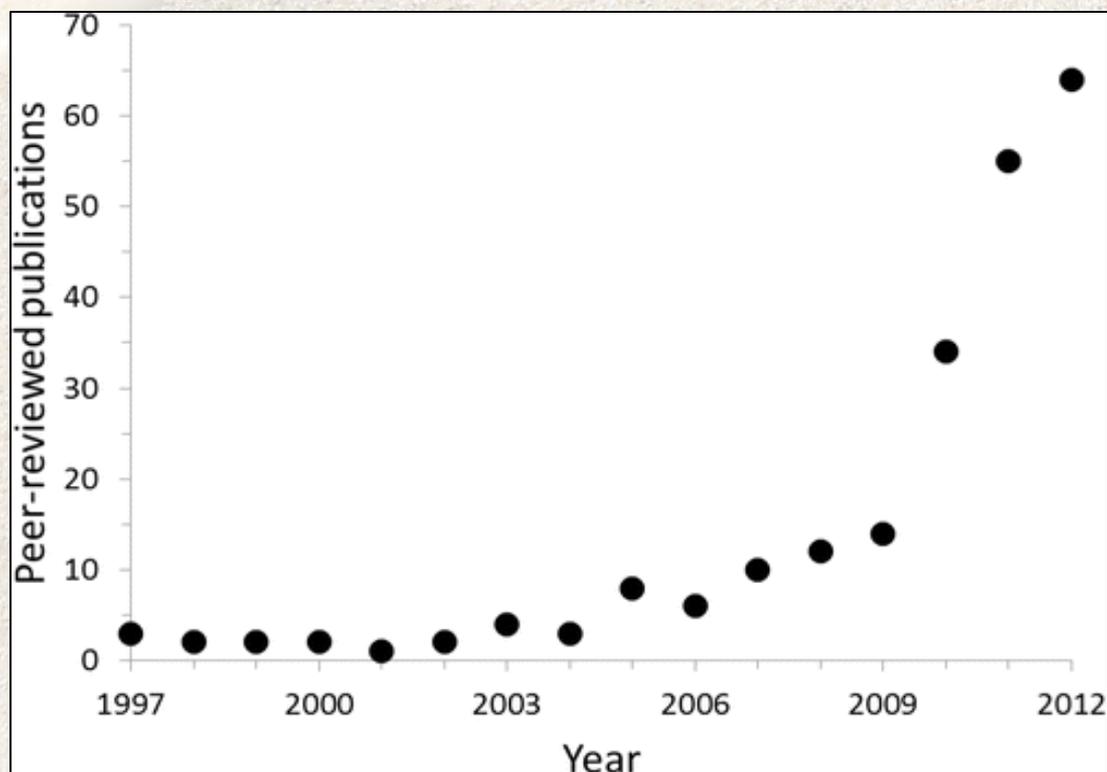


BeachedMarineCrittters.org  
Oregon SG

# The Field is Growing, Rapidly

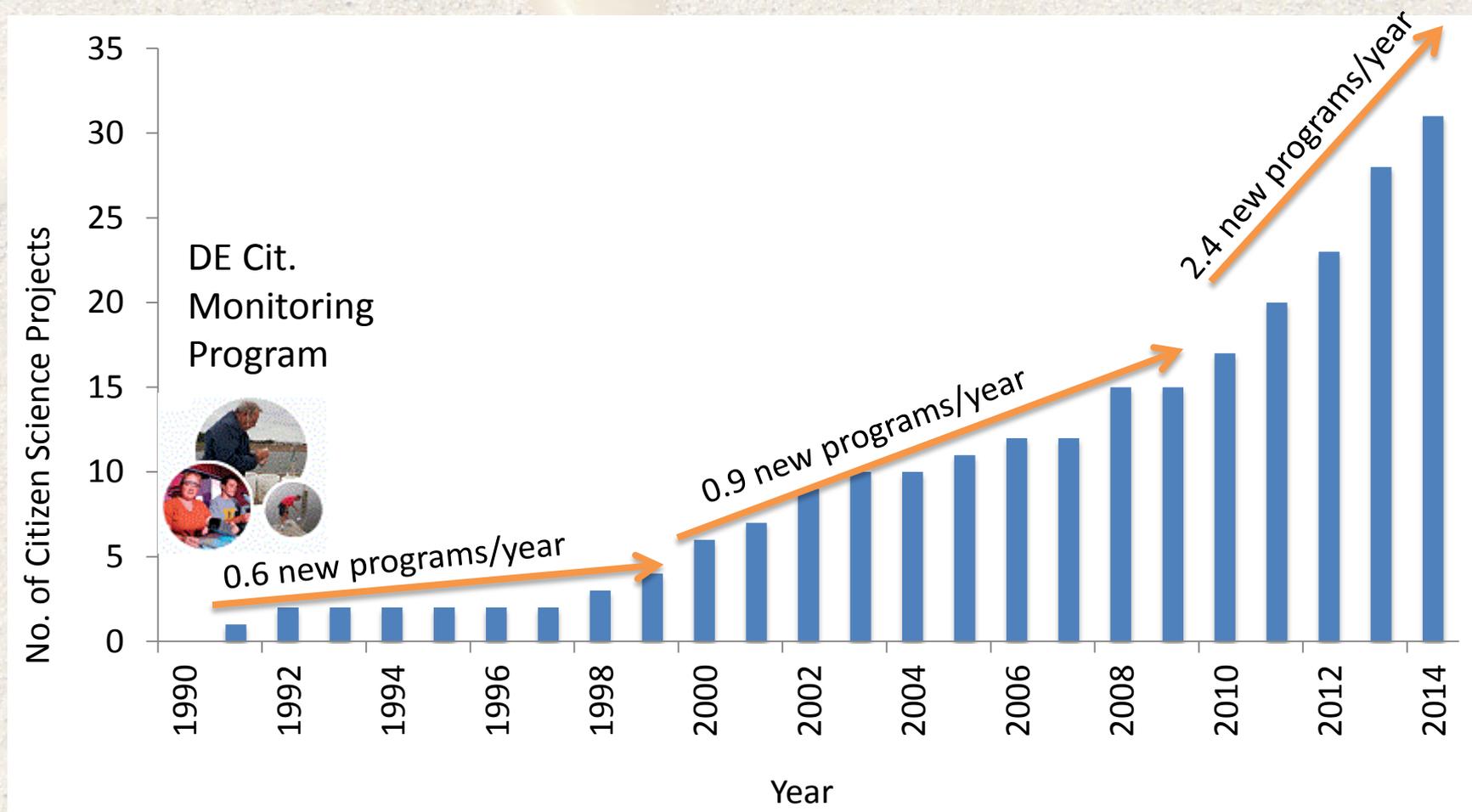
*David Hanych, the late NSF Program Officer who managed the majority of the citizen science portfolio, described the growth in this field as a “coming tsunami”*

<http://caise.insci.org/Blogs/215/10/national-science-foundation-informs-the-media-about-citizen-science>)



The number of peer-reviewed publications with the key word “citizen science”. Note: was done on Oct. 2012, and so does not reflect the complete year of 2012 (Read more: <http://www.esajournals.org/doi/full/10.1890/0012-9623-94.1.112>)

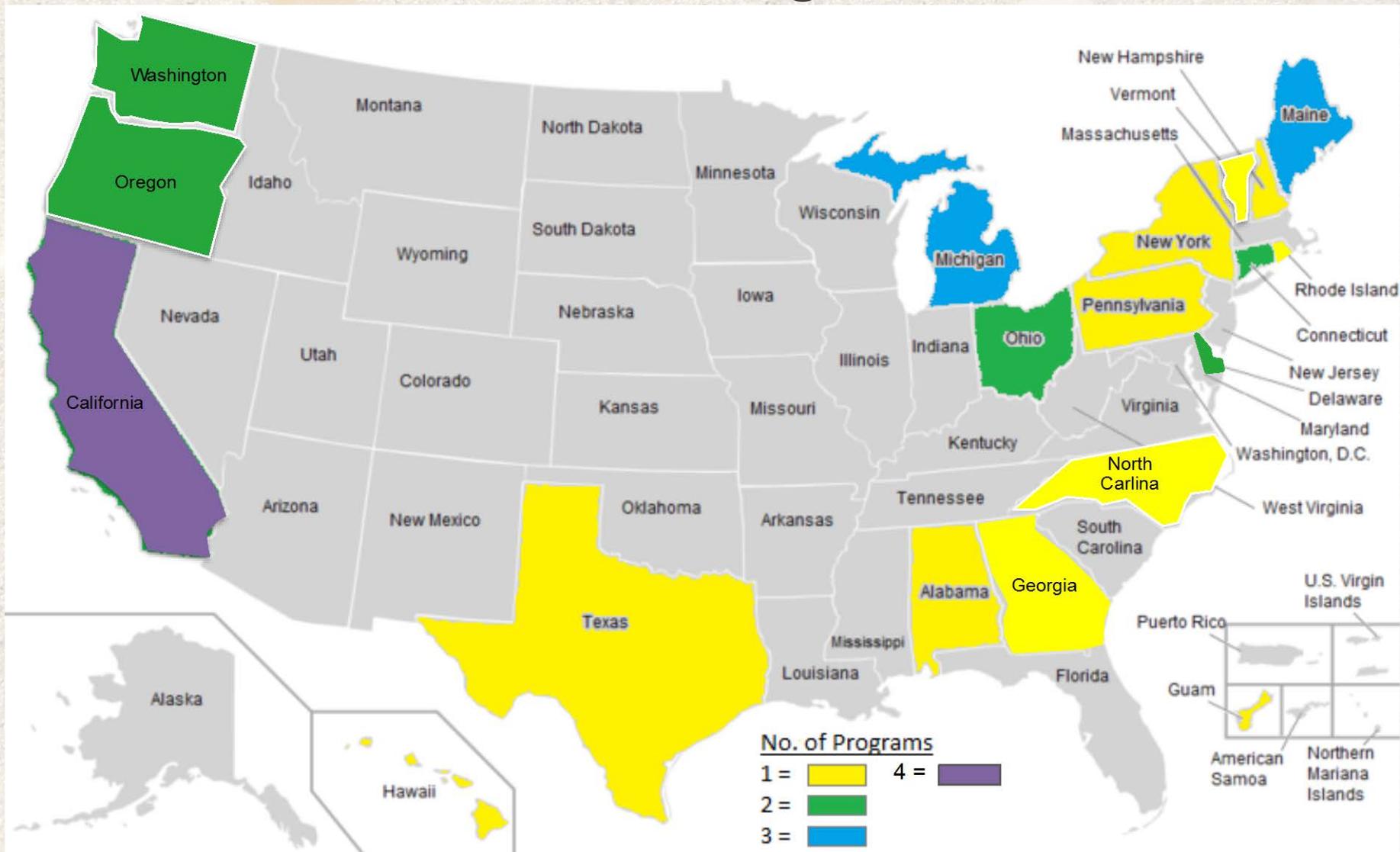
# Increase in SG-supported Citizen Science Programs over Time (n = 31)



# Increase in SG-supported Citizen Science Programs over Time (n = 31)



# 31 Citizen Science Projects in 20 SG Programs



# Citizen Science Project Scale



Scale

Neighborhood

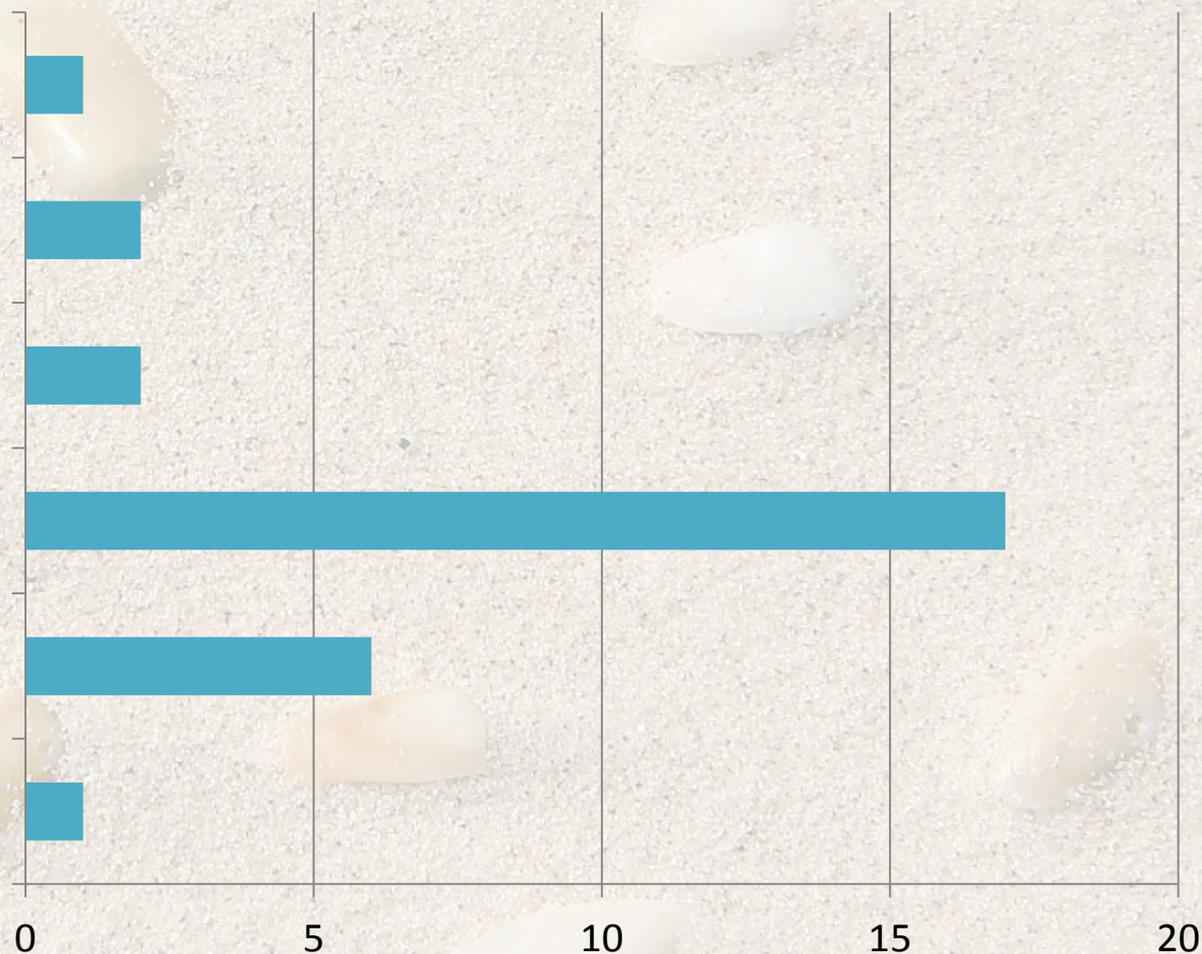
Local School Districts

State Watershed

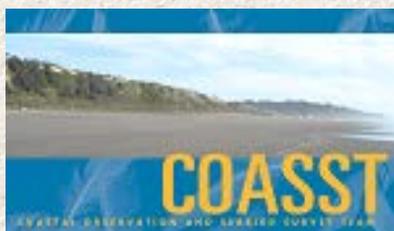
State Coastal Waters

Regional

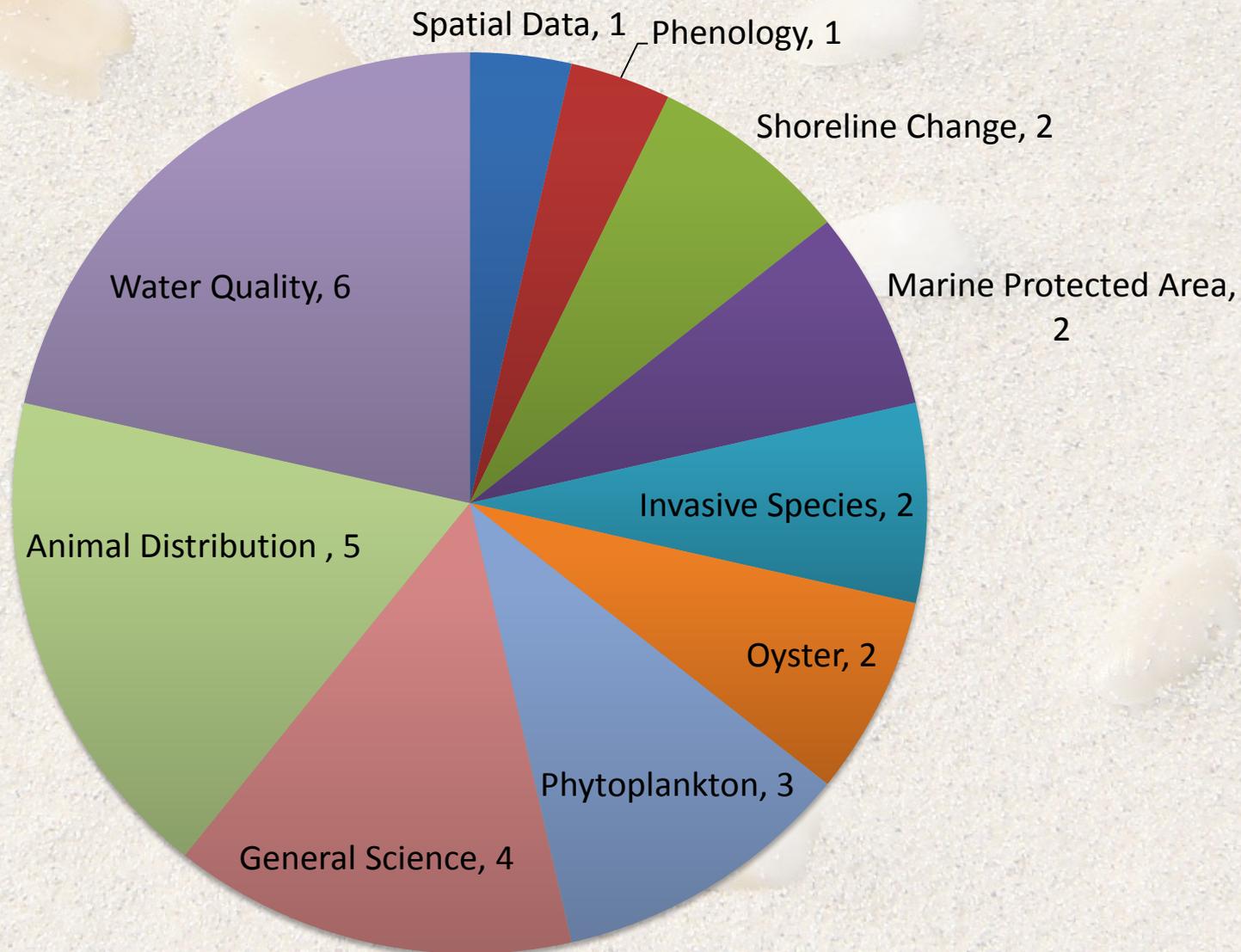
National



No. of Citizen Science Projects

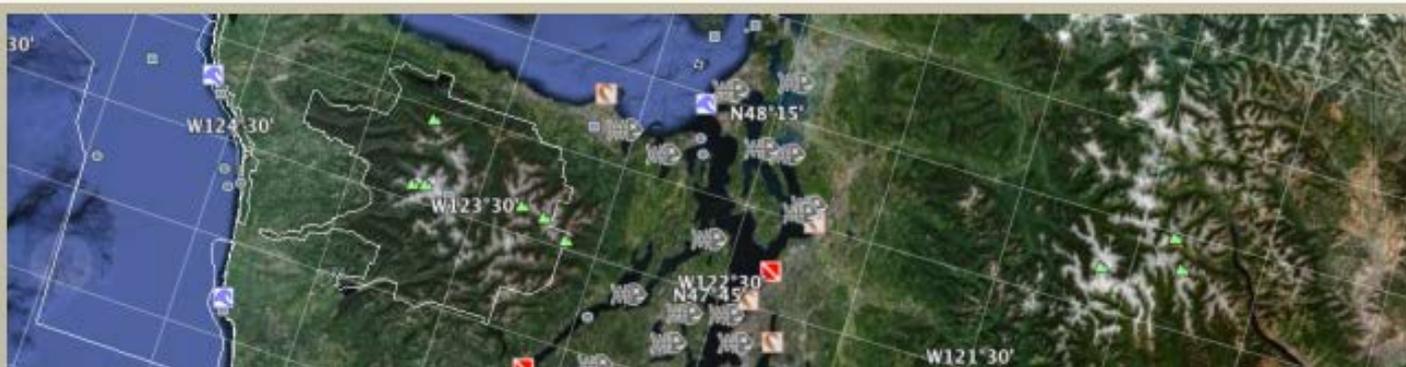


# Topic Distribution



# Water Quality (6 projects)

- Maine Healthy Beaches
- Clean Up Sound and Harbors (CUSH; CT-SG)
- iEvolve with STEM: Inquiry and Engagement to Invigorate and Optimize Learning for Everyone (OH-SG)
- Charter captain water sampling program (OH-SG)
- Stream Monitoring and Stewardship (LC-SG)
- SoundCitizen (WA-SG)



**SoundCitizen in Google Earth's Ocean Layer**

# Animal Distribution (6 projects)

- Project Limulus (CT-SG)
- ReefWatchers on the Island of Hawai'i
- Salmon Ambassadors (MI-SG)
- Beached Marine Critters (OR-SG)
- Coastal Observation and Seabird Survey Team (CA-SG & AL-SG)
- Pennsylvania Amphibian & Reptile Survey (PARS)



# General Science (4 projects)



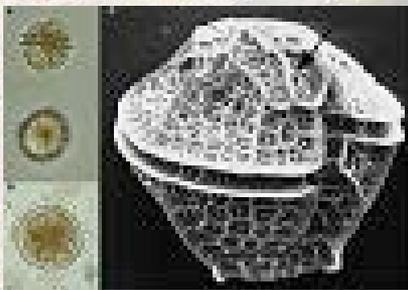
- N.H. Coastal Research Volunteers
- University of Delaware Citizen Monitoring Program
- Sound Stewards Program (NY-SG)
- StreamWebs Student Stewardship Network (OR-SG)

K-12



# Phytoplankton Monitoring (3 projects)

- Texas Red Tide Rangers
- SoundToxins (WA-SG)
- Phytoplankton Monitoring Project (GA-SG)



Volunteering with the Phytoplankton Monitoring Network allows the community to get involved and look at the health of their local water.

# Partnerships

- University Researchers
- Place-based organizations (MPA, NERR)
- Nonprofits (Nature Conservancy)
- Private Foundations (Disney Worldwide Conservation Fund)
- Federal Agencies (NOAA, USGS, EPA)
- Communities Groups

# Upcoming External Opportunities



# CITIZEN SCIENCE

2 0 1 5

## Conference and Gathering

February 11 & 12

San Jose, California, USA

#CitSci2015

Proposals  
due  
9/15/14!



**What:** Citizen Science is a partnership between everyday people and professional scientists to investigate pressing questions about the world. CitSci2015 invites anyone interested in such collaborations to participate.

**Who:** People involved in all aspects of citizen science are welcome, including researchers, project leaders, educators, evaluators, designers and makers, volunteers, and more—representing a wide variety of disciplines.

**Why:** Join people from across the field of citizen science to discuss designing, implementing, sustaining, evaluating, and participating

# Special call for Citizen Science Papers!

## Due: 11/1/2014

## Citizen Science

Submissions due: 1 November 2014

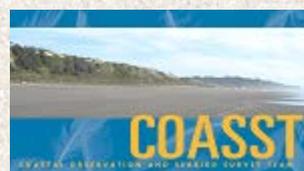
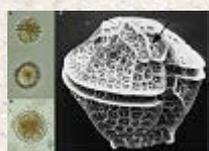
**Estimated Publication date: July/August 2015**

Scientists and engineers are constantly presented with new challenges, despite the myriad advances in computing. There are more sets of data collected than there are time and resources available to carefully analyze them (data such as continuous measurements collected via satellites and telescopes from the Earth and the skies). There are problems with no fast algorithms to solve them, or solutions that have to be found among millions, if not more — possibilities akin to finding a needle in a haystack. However, new scientific and engineering results can be achieved when engaging thousands of individuals by utilizing their computational expertise and resources, as well as their brain cognition, which is not matched by any machine. This special issue of *CISE* highlights projects that engage the public in scientific and engineering endeavors, also known as *Citizen Science* projects, by taking advantage of today's technological advances.

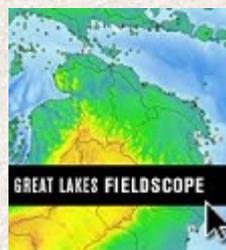
We invite scientists and engineers to submit original papers on the practice and formulation of Citizen Science projects. This may include computing technologies and approaches employed for engaging the general public to solve large-scale problems; the impact of citizen scientists

Issue of *CISE* includes topics presented at the White House Champions of Change Event Highlighting Citizen Science. Participants to present their Citizen Science projects, approaches, technologies, and scientific results.

Copublished by the IEEE Computer Society and the American Institute of Physics, *Computing in Science & Engineering (CISE)* magazine features the latest computational science and engineering research in an accessible format, along with departments covering news and analysis, CSE in education, and emerging technologies.



# Questions & Comments



# Advancing Social Science in Sea Grant

Sea Grant Week 2014  
Clearwater Beach, Florida

Chris Hayes, NSGO  
Phyllis Grifman, USC Sea Grant

# SGW 2012: Social Science Recommendations

## National Sea Grant Office

- Continue Social Science National Strategic Investment
- Develop social science directory
- Appoint NSGO social science lead
- Show value of funded social science research

## Sea Grant Programs

- Social science RFPs (including regional)
- Partner with social science departments
- PD or seed funding for early-career social scientists
- Develop and support social science learning networks
- Utilize social science trainings (CSC and GLSSN)
- Highlight social science activities across Program

# Applying Sea Grant Social Science Research

Wisconsin Sea Grant  
Eat Wisconsin Fish

Jane Harrison, Ph.D. and Kathleen Kline



- Research
- Information needed on Wisconsinites' seafood preferences, knowledge, and buying patterns
- Surveys and focus groups with grocery store customers
  - The terms “Local,” “Healthy,” and “Delicious” resonated with customers
  - The fact that more than 90% of seafood is imported got customers' attention

- Application

- Research used to craft Eat WI Fish outreach materials and support WI fish farmers and fishers
- Increased demand for WI fish where outreach materials have been used



# Applying Sea Grant Social Science Research

Northeast Sea Grant College Consortium

## DECISION-SUPPORT FOR THE ECONOMIC ANALYSIS OF TRADE-OFFS IN COASTAL AND MARINE SPATIAL PLANNING (CMSP) FOR THE US NORTHEAST REGION

P. Hoagland (WHOI), D. Jin (WHOI), T.M. Dalton (URI), M. Davis (Tufts), G. Herrera (Bowdoin), H.L. Kite-Powell (WHOI), B. Wikgren (NEAq)

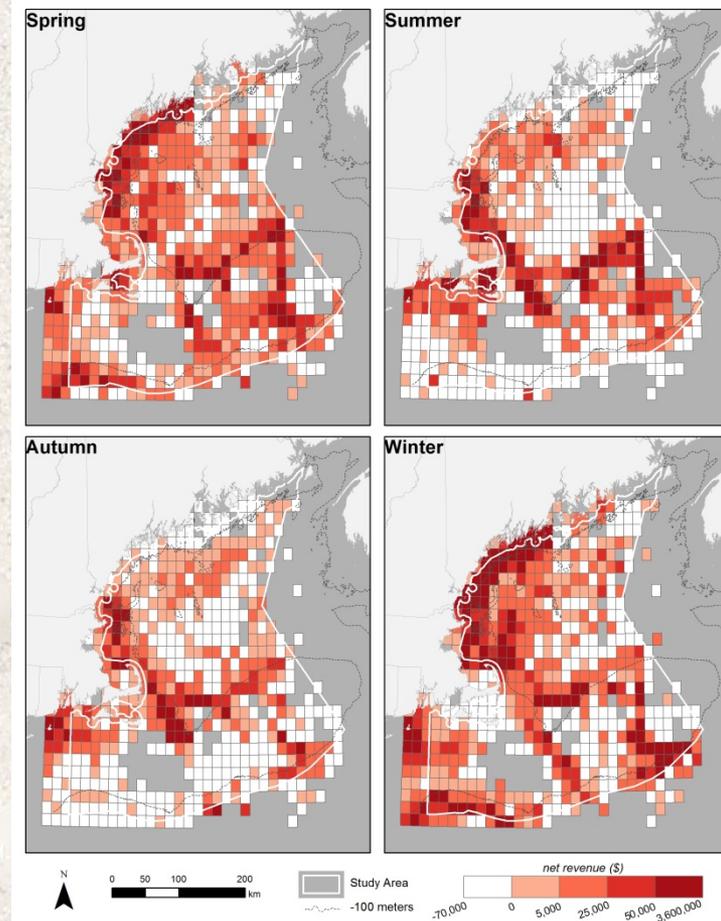
### Research

- Decision support for coastal and marine spatial planning (CMSP)
- Econometric analysis of commercial fisheries data on net revenues of exvessel landings
- Commercial fisheries data are stable at the scale of 10' squares, making this level of resolution appropriate for CMSP

### Application

- Northeast Regional Planning Board; Stakeholders
- What are the appropriate temporal and spatial scales for data to be used for CMSP?

Jin D, Hoagland P, Wikgren B. 2013. An empirical analysis of the economic value of ocean space associated with commercial fishing. *Mar Pol'y* 42:74-84.



# Applying Sea Grant Social Science Research

California Sea Grant

## North Coast Fishing Communities Project

PIs: C. Pomeroy (CA SG) and C. Thomson (NMFS SWFSC)

### Need

- Required assessment of management impacts on fishing communities
- Development of strategies for adapting to changing conditions

### Methods

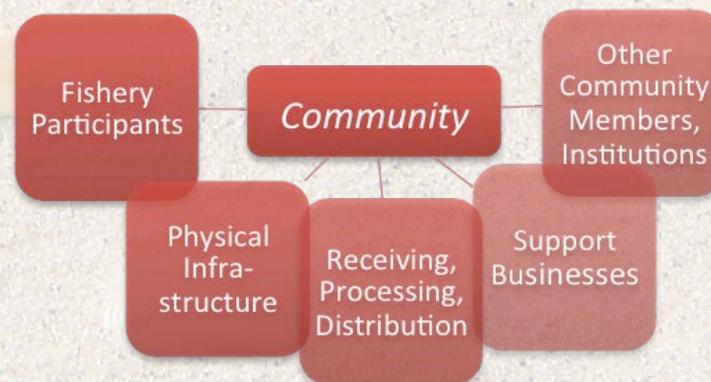
- Archival research
- Ethnography

### Findings/Outputs

- Historically grounded fishing community and regional profiles
  - Key features and relationships
  - Trends and associated drivers
  - Opportunities and challenges

### Applications

- Focused, community-supported research to inform MPA process
- Working waterfront repair and revitalization
- Research on potential space-use conflicts with offshore marine renewable energy



# Applying Sea Grant Social Science Research

## West Coast Sea Grant Social Science Initiative Successful Adaptation:

### Identifying Effective Process and Outcome Characteristics and Practice-Relevant Metrics

Pamela Matson (PI, Stanford), Susanne C. Moser (co-PI, Susanne Moser Research & Consulting and Stanford University), Amy Snover (Washington co-PI, University of Washington) and Hannah Gosnell (Oregon co-PI, Oregon State University)

#### Research:

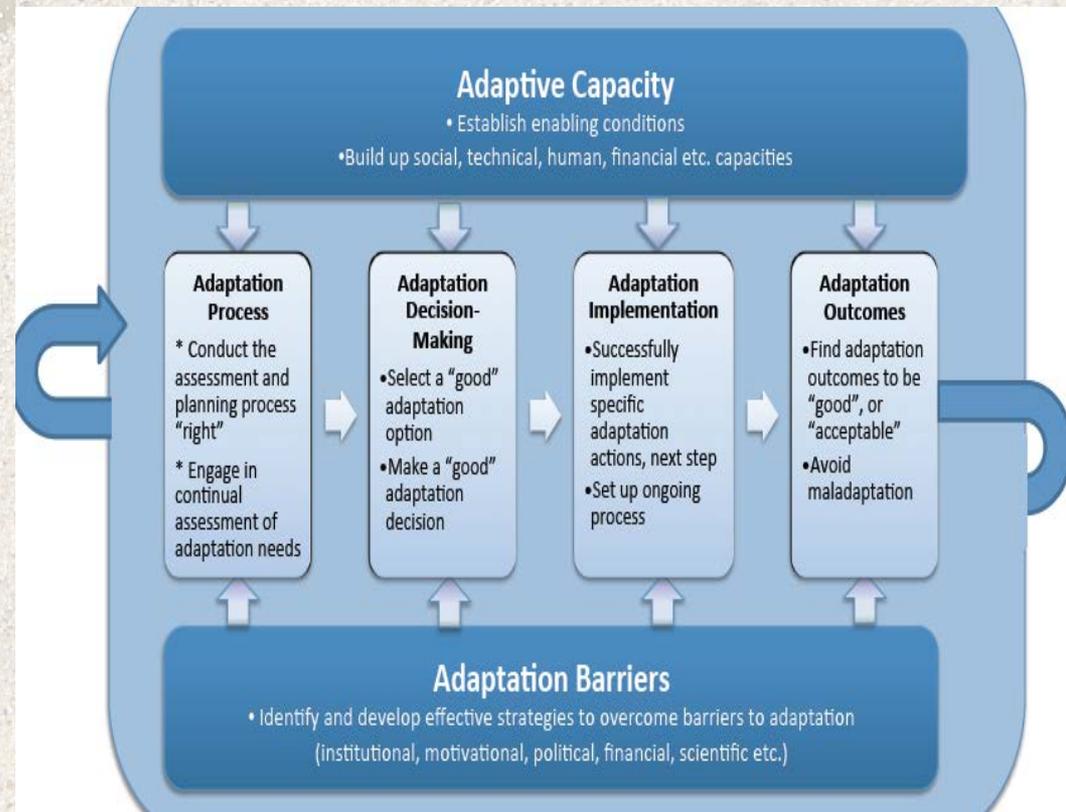
Develop framework and indicators for successful adaptation to climate change: 1) outcomes (2) processes, 3) governance and social mechanisms.

- Science/practitioner workshops/interviews to derive scientifically-grounded, practice-relevant framework indicators and metrics of success

#### Application;

Climate change adaptation guidance for SLR; extendable to other geographies/other climate hazards

- **Outcomes: pragmatic—clear goals and baselines, including evaluation and management of uncertainty**



# Applying Sea Grant Social Science Research

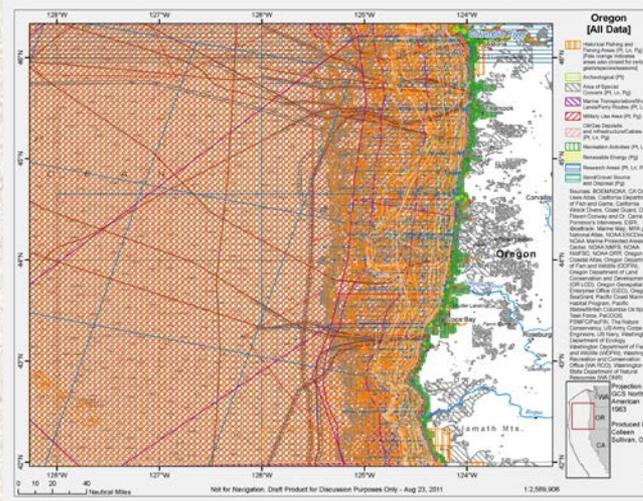
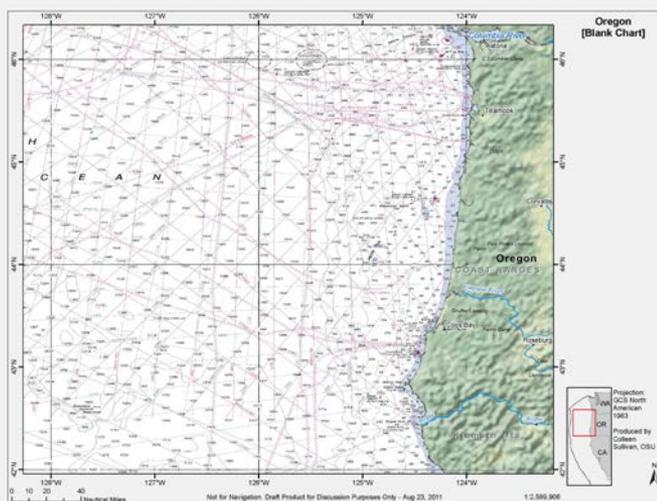
East and West Coast Regions

Identifying and Understanding Space Use Conflicts on the Outer Continental Shelf

PIs: Hall-Arber, Conway, and Pomeroy

*Land folk's perspective of the ocean*

*Ocean users' perspective of the ocean*



**Findings/Outputs:**

- *View / frame the ocean as a “peopled seascape” with existing lessons about cooperation and conflict between existing and potential ocean users.*
- *Use social / human dimension science to understand and document the who, where, why, and what’s important about ocean use and ocean users.*
- *Plan and make decisions, and trade offs, with ocean users, not for them.*