

NATIONAL SEA GRANT ADVISORY BOARD

SEPTEMBER 7-8, 2014

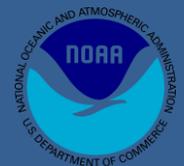
FALL 2014 MEETING

BRIEFING BOOK

NAME

HILTON CLEARWATER BEACH HOTEL

CLEARWATER, FL



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Agenda

**National Sea Grant Advisory Board (NSGAB) Sea Grant Week Spring Meeting
September 7-8, 2014**

AGENDA

**Hilton Clearwater Beach
400 Mandalay Avenue
Clearwater Beach, FL 33767**

Sunday, September 7, 2014

OPEN TO THE PUBLIC 8:30 am – 4:00 pm EDT

- 8:30 – 8:45 Welcome, review of agenda, approval of minutes (Rollie Schmitten, Chair NSGAB)
- 8:45 – 9:00 Chair's update (R. Schmitten, NSGAB)
- 9:00 - 9:45 National Sea Grant College Program, Director's Update (Leon Cammen, Director, National Sea Grant Office - NSGO)
- 9:45 – 10:00 Sea Grant Reauthorization Update (L. Cammen, NSGO, R. Schmitten, NSGAB)
- 10:00 – 10:30 Break
- 10:30 – 11:00 Sea Grant Association Update (LaDon Swann, President, Sea Grant Association)
- 11:00 – 12:00 Florida Sea Grant Current Program Highlights (Karl Havens, Director, Florida Sea Grant)
- 12:00 – 1:00 Break for Lunch
- 1:00 – 2:30 Biennial Report Update and Vote (R. Fortner, NSGAB)
- 2:30 – 2:45 Nomination of new Vice Chair (R. Schmitten, NSGAB)
- 2:45 - 3:00 Pennsylvania Sea Grant Program Status: Charge to Board (L. Cammen, NSGO)
- 3:00 – 3:15 Break
- 3:15 – 3:45 Transformative Partnership (Peter Betzer, CEO, St. Petersburg Downtown Partnership)
- 3:45 – 4:00 Discussion of days topics and wrap-up (R. Schmitten, NSGAB)
- 4:00 Public Meeting recessed until 9:00 am Monday, September 7, 2014
- 4:00 – 5:00 Advisory Board Business Meeting (Board Only)**

Monday, September 8, 2014

OPEN TO THE PUBLIC 9:00 am – 12:00 pm EDT

9:00 – 9:30 Focus Area Updates (Tammy Newcomer Johnson and Elizabeth Bevan, NSGO Knauss Fellows)

9:30 – 10:00 Planning for Future National Initiatives (L. Cammen, T. Newcomer Johnson, NSGO)

10:00 – 10:30 Break

10:30 – 10:45 Social Science update (Chris Hayes, NSGO)

10:45 – 11:00 Public Comment Period

11:00 – 11:45 Site Visit Schedule and Review (Sami Grimes, NSGO)

11:45 – 12:00 Discussion of meeting topics and wrap-up (R. Schmitten, NSGAB)

12:00 Meeting Adjourned

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NSGAB Draft Minutes:
February & August 2014



National Sea Grant Advisory Board (NSGAB) Spring Meeting
February 27-28, 2014
Meeting Minutes

Virtual Meeting
National Sea Grant Office
1315 East West Highway
Silver Spring, Maryland

Thursday, February 27, 2014

Introductions, review agenda, approval of minutes, etc. (R. Schmitt, Chair, NSGAB)

Roll Call:

Board attendees present: Rolland Schmitt, and Leon Cammen (*ex-officio*)

Board attendees on call: Dale Baker, Patricia Birkholz, Paulinus Chigbu, Rosanne Fortner, Amber Mace, Michael Orbach, Harry Simmons, William Stubblefield, LaDon Swann (*ex-officio*)
Richard Vortmann, Richard West

National Sea Grant Office (NSGO) attendees: Elizabeth Ban (Designated Federal Officer), Chelsea Berg, Elizabeth Bevan, Jonathan Eigen, Nikola Garber, Sami Grimes, Chris Hayes, Tammy Newcomer Johnson, Gene Kim, Michael Liffmann.

Other attendees:

Jennifer Maggio-National Sea Grant Office, Contractor, 2020 Company, LLC
Kathryn MacDonald-National Sea Grant Office, Contractor, 2020 Company, LLC

March 2013 Draft Minutes

Motion by Dr. Orbach: Approve March 2013 draft meeting minutes.

2nd Mr. Vortmann; Unanimous approval.

Motion approved.

September 2013 Draft Minutes

Mr. Schmitten asked Dr. Cammen if the NSGO's budget line has been compressed from 3 budget lines, to 1. Dr. Cammen replied, no. The NSGO still has 3 budget lines.

**Motion by Dr. Stubblefield. Approve September 2013 draft meeting minutes.
2nd Patricia Birkholz; Unanimous approval.**

Motion Approved.

Chair Update (R. Schmitten, Chair, NSGAB)

Mr. Schmitten noted that this is his first meeting as official Chair. Mr. Schmitten gave thanks to Dr. Nancy Rabalais for her tenure as Chair from January 1, 2011 to December 30, 2013. Under her leadership, the NSGAB was involved in many important topics, and time intensive projects, yet Dr. Rabalais still had time to run Lumcon, continue her research in the Gulf of Mexico, and named a MacArthur Fellow (otherwise known as the "Genius Grant"). Dr. Rabalais now moves on to the role as Past Chair.

Mr. Schmitten reported on the new Executive Committee members. The terms for the Executive Committee are 2 calendar-year terms, with one exception this year. The new members are as follows: Chair, Mr. Rolland Schmitten; Vice Chair, Admiral Richard West, (who offered to fill this roll for one year); Dr. Nancy Rabalais, Past Chair; and Member-at-Large, Mr. Franklyn Beal.

Mr. Schmitten thanked Dr. Stubblefield who served as the Executive Committee Member-at-Large for the past four years. Mr. Schmitten noted Dr. Stubblefield agreed to extend his tenure with the Board for an additional year as is allowed by the NSGAB's legislation. His second term ends on March 6, 2014, but he will now serve until March 6, 2015.

Mr. Schmitten reported on tasks the NSGAB has been working on since their fall 2013 Meeting. Admiral West served as Chair of the Planning, Implementation and Evaluation (PIE) Assessment

Team, along with other committee members: Mr. Dale Baker, Dr. Amber Mace and Dr. Michael Orbach. Mr. Vortmann served as chair of the Allocation 3 Committee, along with Mr. Frank Beal, Dr. William Stubblefield and Admiral Richard West. Mr. Schmitten gave thanks to both Admiral West and Mr. Vortmann who presented their findings and recommendations to the Sea Grant Association (SGA) at their October 2013 meeting in Mobile, Alabama.

Dr. Fortner stepped into chair the 2014 Biennial Report Committee. Assisting her in this effort are NSGAB members Mr. Baker, Senator Birkholz, Dr. Rabalais and Admiral West; as well as Dr. Dennis Nixon of Rhode Island Sea Grant, Dr. Jeffrey Reutter of Ohio Sea Grant, and Dr. Diana Payne of Connecticut Sea Grant.

Mr. Schmitten reported working with the staffers on the Hill, Dr. Cammen and the SGA on the NSGCP Sea Grant Reauthorization Act. Mr. Schmitten reported the NSGAB will also be hearing discussions on the AC3 Committee, the NSGO's response to the PIE Assessments and the 2014 Biennial Report.

Mr. Schmitten noted the NSGAB meeting coincided with the AGU Ocean Conference, which Dr. Rabalais and Dr. Chigbu are attending and will join the meeting when possible. Mr. Beal will also not be joining the meeting. Mr. Schmitten reviewed the agenda.

National Sea Grant College Program, Director's Update (L Cammen, NSGO)

Topic: Staff Introductions.

Dr. Cammen introduced two new Knauss Fellows', Elizabeth Bevan and Tammy Newcomer-Johnson. Dr. Cammen reported Dr. Terrance Smith, the National Marine Fisheries Service representative at the NSGO, has retired. Dr. Cammen reported the National Marine Fisheries Service (NMFS) Science and Technology office does plan to refill the position. The problem is hiring people within NOAA can be difficult and lengthy to do. It might be by the end of the calendar year by the time someone is put in the position.

Dr. Cammen reported Ms. Laura Oremland with NMFS and past Sea Grant Knauss Fellow, has stepped up and is helping with the National Sea Grant NMFS Fellow process and other tasks that should arise. Dr. Cammen noted, Ms. Amy Painter has also left the NSGO and Ms. Elizabeth Ban is acting in her position. Ms. Kathryn MacDonald, contractor for the NSGO will be Ms. Ban's second in command. The NSGO is still working on replacing the position vacated when Dr. Jim Murray retired in June 2011, and Dr. Nikola Garber is the current Acting Deputy Director.

Dr. Cammen reported the NSGO is placed under an administrative cap which limits our ability to hire additional staff. There have been reorganization considerations to help offset these restrictions. One change may include consolidating program officer roles. This particular option would involve creating a team of 3-4 program officers that would oversee all the State Sea Grant programs.

This would free up other staff members to concentrate on other aspects of what the NSGO does, such as developing the program and facilitating partnerships. Staff members would be able to focus on key responsibilities, rather than being overwhelmed with the many conflicting responsibilities they currently have. This is one of the only options available to the NSGO without the ability to hire additional staff members. These scenarios are still in the discussion phase and non-committal. By the next NSGAB meeting, the appropriate changes will have been implemented.

Topic: NSGO Efficiencies

The PIER System is currently up and running successfully. There are some tweaks to be made, but it's a very robust system. The NSGO is hearing from other NOAA offices that they would like to duplicate or buy into the system and increase the benefit.

The information from PIER is used to streamline Sea Grant. Programs enter the information and the NSGO uses it for reporting. Responding to "taskers" (requests for information about what Sea Grant Programs are doing) is a major part of NSGO responsibilities. The NSGO uses PIER

to answer these requests, rather than going to the network. The information from PIER is also used to evaluate programs. It has been a long road, but the network is starting to see the benefits.

Dr. Cammen also reported on the new NSGO website. The new site is more dynamic and functional, rather than just a static display of information. It can also work with PIER, so that impacts and accomplishments can be pulled right out of the database and shown to the public.

Topic: Auto-uploading of Project Data

Dr. Cammen announced the NSGO has come up with a solution to auto upload project data. A form has been designed in Excel format, where programs can enter their information only one time and check for accuracy. It provides immediate access to individual project information and the ability to provide summary information. This satisfies grants requirements and can be translated right into the PIER database. This form was used for the grants awarded February 1, 2014 and so far, 548 projects have been submitted using this new system.

Topic: FY 2014 Budget

Dr. Cammen reported that the FY 2014 budget for the Department of Congress was recently approved. The FY14 budget for Sea Grant will need to filter its way down from NOAA and the Office of Oceanic and Atmospheric Research before the final budget is confirmed, which should happen shortly. FY 2012 was the last pre-sequester year. Last year, after sequester, Sea Grant ended up with a \$57.3 million budget. This year there is almost a \$10 million increase.

Budget highlights:

- FY 2014 was the highest request for Sea Grant in the history of the program. The request was for \$72.7 M and Sea Grant received \$67.3 M.
- There was a small increase request to base funding and a request for a research initiative of \$4.5 million that focuses on community and coastal resilience.
- The proposal from the administration to transfer all education to NSF, which would cut \$4 million from our program, did not happen.

- The NSGO is trying to encourage programs to do more social science. This year, is it planned that the programs will receive a 50% subsidy to fund social science research as part of a national strategic initiative.
 - There are 27 programs and 55 social science projects the NSGO is funding at around \$3 M a year for the next two years
- Sea Grant received \$4.5 million for aquaculture.
- The grand challenge was put into Sea Grant on behalf of NOAA. The NSGO asked for \$10 M but received \$1 M. We are talking with other parts of NOAA and other agencies to collaborate and increase the total funding available.
- The NSGO will also provide money to each program to continue or develop climate adaptation capacity building.
- The NSGO will rebalance state program base funding. This will get programs that are relatively underfunded up to a certain, minimum level of funding.
- The FY 2015 President's budget is to be released March 5th with details to follow one week later.

Topic: Responses to PIE Assessment Report-Planning

Dr. Cammen reported the PIE Assessment Committee did a terrific job. They had a lot of material and advice. The report and response are in the briefing book. It was recommended to have a National Plan based on top-down mission requirements. Programs will then be required to create a plan that is in line with the National Plan.

Topic: Responses to PIE Assessment Report-Implementation

Dr. Cammen highlighted focus teams and how they work. Focus teams were intended to review what the network was doing and give advice on where the NSGO was falling short and what things the NSGO needed to start thinking about; and help develop partnerships with other agencies and report on what was accomplished.

Everyone agreed it was too much. As a result, the focus was just on reporting and what had been done. The idea is to make changes in how these teams operate and look at ways to redirect some of the current efforts to address/concentrate on focus team tasks.

Responses to PIE Assessment Report-Evaluation

Dr. Cammen reported the evaluation recommendation was to integrate annual reviews, site visits, and an external evaluation panel into an overall four-year evaluation process. The response stated that the annual reviews, site visits and external evaluations together are integrated in the PIE System. The site visit reviews focus on operations and evaluate how Sea Grant Programs function internally. The Performance Review Panels focus on the impact of the Sea Grant Programs and evaluate the Programs from an external perspective. The annual reviews focus on the Sea Grant Programs' progress toward their four-year plans, serving as a continuous evaluation of the programs. The NSGO does not agree that annual reviews and site visits should be scored and factored into the Program ratings. Program performance is more appropriately evaluated by an external body of experts.

Topic: Challenges for Sea Grant

Dr. Cammen reported on the challenges for Sea Grant. There are programmatic gaps within Sea Grant. The Sea Grant Knauss Fellows' presentations will talk about where Sea Grant might go within the next 20 years. The NSGAB should also be thinking about this.

Another challenge Dr. Cammen noted is NMFS interests in NOAA and extension. Sea Grant needs to discuss ways OAR and NMFS could complement each other. Dr. Cammen reported he recently attended a Senior Research Council (SRC) meeting where Sea Grant was mentioned throughout the session regardless of topic. There was particular interest in extension in education. The one specific assignment made during the meeting was to assign the NMFS office to work with the NSGO to develop a collaborative plan on how to go forward with extension.

Other challenges for Sea Grant include functioning during a period of tight budgets; rebalancing NSGO resources and re-organizing the NSGO. The NSGO is looking into alternative models and how to be more efficient if the administrative cap isn't going to move.

Topic: Questions and Comments.

Dr. Orbach complemented Chris Hayes with the work he has done with social science. Mr. Hayes has been very persistent and professional. Dr. Orbach discussed his opposition with the PIE ranking system. Dr. Orbach believes if the NSGO is trying to increase contact between the NSGO and Sea Grant Programs while continuing to issue report cards then relationships will not increase.

Dr. Mace congratulated Dr. Cammen on the budget. Dr. Mace asked Dr. Cammen to discuss what contributed to the budget increase. Dr. Cammen replied that there were several including that the administration went in with a \$72 M request. The Senate also came back with a \$72 M budget, even though it wasn't the same break down. There was a general consensus on the budget amount.

Dr. Mace asked Dr. Cammen how Sea Grant can learn from that and how can we continue to build. Dr. Cammen replied, I think it helps to say this was an initiative the network and the NSGO are pushing. If the network pushes from the outside and the NSGO pushes from the inside, then that helps.

Mr. Schmitten agreed with Dr. Cammen. Mr. Schmitten believes the Department of Commerce's Administrator understands Sea Grant, which is really helpful. Secondly, once the number goes up to the Hill it is important to hold that number. Sea Grant Programs visit the Hill when they are in D.C., which is something the NSGO can't do. A team approach is the best way to go.

Admiral West commented on PIE. Admiral West recommended that instead of using a score, use satisfactory. Admiral West feels that not all the recommendations that were discussed in the PIE Assessment Report are listed. Dr. Cammen noted that the report is in the briefing book which

goes into further detail for each recommendation. Dr. Stubblefield noted he supports Admiral West's thoughts on PIE.

Sea Grant Association Update (L. Swann, SGA)

Topic: 2014 Budget Recap

Anything here?

Topic: SGA Reauthorization Recommendations

Dr. Swann reviewed the SGA's recommendations for the NSGO Reauthorization.

They are as follows:

- No change to the 5% cap on administrative fees for the NSGO. The SGA recognizes the need for additional administrative and programmatic staff in the NSGO and suggests an alternative. The SGA suggests the NSGO Director uses the Intergovernmental Personnel Act to address necessary personnel needed as part of the program administration for the National Sea Grant Office in collaboration with and the approval of the Sea Grant colleges and institutes.
- To promote regional investments of programs using pass through of other federal funding resources.
- To remove the reporting requirements from Sections 207 and 208.
- To better clarify Sea Grant's education program (Fellowship and STEM).
- Authorized funding levels.

Topic: Allocation of Resources to State Programs

Dr. Swann noted the SGA is willing to work with the NSGAB to try and resolve issues related to the allocation of Sea Grant funding. The SGA recommends directing funds from regional and national activities to those state programs that currently fall below the level considered necessary for the "successful implementation of sea grant programs." The level is \$1.2 M as recommended in the 2003 Allocation Report.

Topic: Growth

Topic: Federal Growth

Dr. Swann reported on the Community Resilience and America's Working Waterfronts initiative. He would like to see during his time, for Sea Grant to stick with the initiative until it works. He feels the mentality has been to constantly change initiatives every year if they don't work right away. There are a lot of other federal programs that could help leverage Sea Grant. There are some programs that come with a level of risk because of politics, but they don't cost a lot for Sea Grant to be involved in. He is going to try and encourage other programs to get on board with the Weather Ready Nation Program.

Topic: Non-Federal Growth

Dr. Swann reported there is a lot of non-federal growth. The Gulf of Mexico Research Initiative was a \$5 M program that came out of the Gulf oil spill. Developing more non-federal funding partnerships is also important. Dr. Swann noted Mississippi-Alabama Sea Grant shares an outreach position with Smart Growth America. The current outreach program will be working with the Institute for Business and Home Safety (IBHS).

Topic: Conceptual Model to Enhance Sea Grant Communications

Dr. Swann noted this is a very rough draft of what communicators will be providing to the SGA. The SGA plans to use \$50K to hire an external group to help with some of the messaging, and marketing of Sea Grant. The SGA is very aware of limitations placed on the NSGO and will be using network communicators for this work.

Topic: eSea Grant

Dr. Swann noted the SGA is looking for one tool to use across the programs. Currently there is a hodgepodge of program management systems that are being used by programs. The one at the top of the list is eSea Grant. The SGA hopes that long term there will be a seamless integration with PIER. It would make eSea Grant more useful for programs.

Topic: SGA Spring Meeting

Dr. Swann noted the SGA would like to build their relationship with the John A. Knauss Fellowship Alumni and there has been discussion on creating an alumni association. He also reported the 1000th fellow will be a part of the of this year's group.

Topic: Questions and Comments

Dr. Orbach noted, he agrees with the NSGO using IPA's, however it also costs money. Sea Grant needs to make the case that we are more than the sum of the individual state programs. He doesn't see a future inside the beltway for the programs without Sea Grant making that case. Dr. Orbach believes it bears directly on the staffing of the NSGO. Mr. Schmittien agreed.

Discussion of morning topics (R. Schmittien, NSGAB)

Mr. Schmittien reviewed the morning topics. There was no further discussion.

Site Visits (S. Grimes, NSGO)

Topics: Sea Grant Evaluation Process; Why Site Visits; How Sea Grant Site Visits are Conducted.

Topic: Results from last site visit cycle

Ms. Grimes reported the NSGO has created one-pagers on what the Sea Grant Programs have done and how they've improved. Out of all the reports, there were 35 recommendations and 200 suggestions. Programs are required to respond to the recommendations and are not required to respond to the suggestions. Around 95% of the programs responded formally to the suggestions, and about 82 were implemented, which is 85%.

Topics: What to expect this site visit cycle; Site Visit Timeline.

March 2014: Site Visit Guidance Finalized

April 2014: Site Visits are scheduled

May and June 2014: Co-Chairs are selected

SRT Webinars are conducted by the NSGO for Programs, Advisory Board Members and Reviewers

July 2014 - Sept 2015: Site Visits are conducted

Biennial Report Update (R. Fortner, NSGAB)

Dr. Fortner thanked all of the committee members for the way they've embraced the challenge of putting together the big picture of what Sea Grant is. The committee is using a model that Admiral West set up with the first 2 Biennial Reports. Dr. Fortner reviewed the sections that are currently in draft form and other sections that will need additional information. Dr. Fortner noted, the final draft will be presented at the Fall Board Meeting. Ms. Ban clarified that the Biennial Report Subcommittee can have a call to vote on the report, but the NSGAB can't. It will be presented at the public meeting during Sea Grant Week 2014, and then the NSGO will ask the NSGAB to vote on it.

Admiral West asked if there will be a public conference call to approve the final draft around August 2014, which means the NSGAB will have to look at the draft a couple weeks before that. Any changes from that point on will be before the NSGAB. Ms. Ban replied, there will be an offline conversation to verify dates and that the NSGAB is following Federal Advisory Committee Act (FACA) rules.

Mr. Schmitten asked if the Virginia Sea Grant Program review for college status needs to be included in the report. Mr. Schmitten noted that the information should be put in the report due to the huge amount of time that was put into the review.

Ms. Grimes suggested adding the PIE statistics of the site visits, etc. It might be good to highlight that as well as the results of the PRP. Ms. Grimes will get Dr. Fortner the information.

Sea Grant Reauthorization Update (R Schmitten, NSGAB)

Mr. Schmitten reviewed the previous NSGAB meeting in September 2013, which included removing annual reporting requirements for Sea Grant Programs; removing the 5% administrative cap and adding \$25 M for regionalized grant projects with no match. Since then,

in late November, the Hill majority committee staff initiated contact with the SGA, NSGAB and the NSGO.

The NSGAB and the NSGO recommended the 4 items set forth. The NSGO worked on a preliminary draft for reauthorization. Changes are being made to the document. Some include: authorization at \$72M which grows to \$92.9 by 2020, as well as additional authorization of \$18M of each of those years. That has been dropped to \$6 M and now includes resilient communities and working waterfronts. In the initial authorization it was invasive species, oyster research, harmful algae blooms, and fisheries extension activities. The Advisory Board's State of Sea Grant Report to Congress is currently required every two years. The reauthorization would change it to every three years. The match of funds was not waived. The Sea Grant education mandate was strengthened regarding the Sea Grant Knauss Fellowship Program.

Mr. Schmitten noted the sense of the Senate and staff deliberations are if there is not coordination and equal view it will not be introduced. No matter how hard the issue is pressed, it was made clear from day one that it will not be lifted, but the staff were sympathetic and understand and would try to address the issue. A compromise is to increase the cap by 5.5%. Every 1% is equivalent to around \$300K. There has been talk about placement of the fellows on the Hill. Mr. Schmitten would like to see language before they can say much. He has heard they plan on placing fellows half in minority offices/committees and half in majority offices/committees to create a balance.

Mr. Schmitten asked Dr. Swann if the SGA has visited the House and if so, he would be interested in what they have to say. Dr. Swann replied there are two things the SGA has heard from the House Resources Committee and House Science Committee. To see what's in the Senate Bill is very positive and hopefully will stay in by the time it goes through the House. There was not a lot of support about the administrative cap increase. That is where the SGA came up with the IPA's. Dr. Swann realizes there is a cost for those. That cost would be outside the cap. Mr. Schmitten said he heard the same. Mr. Schmitten noted to Dr. Swann and Dr.

Cammen that if there is anything else heard regarding reauthorization that is be shared. All agreed.

Topic: Questions & Comments

Dr. Orbach asked if there is any sense in terms of money, how much IPA's will cost, not subject to the cap. Dr. Cammen responded around \$57M. This money would come from the appropriations that would otherwise go to national strategic initiatives.

Dr. Cammen pointed out the NSGO can have IPAs right now, except that the legal opinion we are going by is if the IPAs are working on programmatic aspects, for example, someone to work on the communication network plan that it does not count against the cap. If the NSGO has someone coming in doing administrative work it does come out of the cap. Dr. Cammen noted, in his experience, IPAs aren't less expensive than federal employees. Housing can cost more than a federal employee. Dr. Orbach noted that is his experience as well.

Dr. Swann noted the SGA has recognized all that and are fully aware of what Dr. Cammen is saying. Dr. Orbach asked Dr. Swann why the SGA chose that plan. Dr. Swann replied, because it is not part of the administrative cap. This is experience the Sea Grant network can use when they go back to their programs. The SGA hopes that IPAs help the office and the professional development of the individual. Dr. Swann noted there used to be more than fifteen people in the NSGO. That number the SGA is still concerned about; they are worried about having a lot of people in the NSGO.

(Break)

NOAA OAR Update (R Detrick, OAR)

Topic: Leadership Update; Budget; Sea Grant Reauthorization; NOAA's Next Generation Strategic Plan; OAR's Vision & Mission; NOAA's Research Enterprise; NOAA 5-Year Research & Development (R&D) Plan; Coordination in NOAA (OAR/NMFS).

Topic: Questions & Comments

Mr. Schmitten noted he believes Dr. Sullivan's presence really shows the relevance of NOAA. The public is more aware of NOAA. Mr. Schmitten suggested a quarterly report on what is achieved by the collaborations.

Dr. Stubblefield thanked Dr. Detrick for his presentation. Dr. Stubblefield asked if the 2012 report integrated with NOAA Coastal Programs and Dr. Sullivan's desire for integration amongst duplicate programs. Dr. Detrick replied that there is certainly reorganization going on within NOS. Dr. Holly Bamford is best to speak to about changes. They are certainly aimed at stream lining their organizational structure. What OAR has been working on is developing more effective means of managing cross line activities and one of the more successful efforts has been in the climate arena.

A Systems Administrators Climate Goal Board which oversees planning, budget, and execution of four major areas in the climate arena, has been established. It seems to be working fairly well in developing the cross NOAA Focus on the 4 climate challenges.

Public Comment Period (R. Schmitten, NSGAB, E. Ban, NSGO)

There were no public attendees or submitted public comments.

Discussion of Afternoon Topics (R. Schmitten, NSGAB)

Dr. Orbach asked what the attitude is of the administrative cap issue. Mr. Schmitten replied, Dr. Sullivan supports the removal of the cap and supports the NSGO in being as strong as they can in removing the cap.

Motion by Mr. Schmitten to recess the meeting until Friday, February 28, 2014 at 1:00pm EST.

Admiral West 2nd, unanimous approval.

Motion approved.

Friday, February 28, 2014
1:00 PM– 4:00 PM EST- Open To Public

Board attendees present: Rolland Schmitten, and Leon Cammen (*ex-officio*)

Board attendees on call: Dale Baker, Patricia Birkholz, Paulinus Chigbu, Rosanne Fortner, Amber Mace, Michael Orbach, Harry Simmons, William Stubblefield, LaDon Swann (*ex-officio*)
Richard Vortmann, Richard West

National Sea Grant Office (NSGO) attendees: Elizabeth Ban (Designated Federal Officer), Chelsea Berg, Elizabeth Bevan, Jonathan Eigen, Sami Grimes, Chris Hayes, Tammy Newcomer Johnson, Gene Kim, Michael Liffmann.

Other attendees:

Jennifer Maggio-National Sea Grant Office, Contractor, 2020 Company, LLC

Kathryn MacDonald-National Sea Grant Office, Contractor, 2020 Company, LLC

Allocation Committee Update (L. Cammen, NSGO and D. Vortmann, NSGAB)

Dr. Cammen noted the Allocation Committee Report is a result of a lot of work done by the SGA and NSGAB, in particular Mr. Vortmann who led the Allocation Committee III (AC3) that put together the report.

Mr. Vortmann stated that the AC3 prepared a report that was submitted to the NSGAB and agreed upon and informally sent to Dr. Cammen. Dr. Cammen presented the report to the SGA. Mr. Vortmann noted the AC3 position and the SGA's position are substantially divergent

Rebalancing Sea Grant's Base Funding Resources-FY 2014 and Beyond (L. Cammen, NSGO)

Topic: FY 2014 Rebalancing

Dr. Cammen noted what Sea Grant is really doing is rebalancing their resources. Sea Grant is potentially taking resources that exist in one part of the program and moving it to another part of the program.

Topic: Priorities for Rebalancing

Dr. Cammen pointed out that there are a lot of programs that are too small. They do well with the resources they have, but there is no question they need additional resources. Sea Grant will have to make modifications. The top priorities for the rebalancing are: 1) get the smallest programs up to a minimum of \$1M; 2) increase funding to programs that are relatively underfunded, and 3) get funding to all other programs. The only constraint is that there will be no reduction in base funding for any program.

Some constraints include programs not willing to give up any funding in order to provide the funding to another program in the network. The constraint the NSGO is operating under is no reduction in base funding for any program. If there is a major budget cut, there will be budget cuts, but what is in our control we will not be reducing funding.

Sea Grant was fortunate this year to receive a \$5 M increase in resilience research. The NSGO is intending to use that increase to feed into the base and address some of the funding issues. Those funds will still carry the requirement that they be used for competitive research.

Topic: FY 2014 Rebalancing – General Plan

Dr. Cammen noted there are a few considerations in reaching a minimum program size. There are a lot of questions on where the \$1.2M came from. The first Allocation Committee put all the programs ranked by federal base funding and \$1.2M was the median.

Dr. Cammen suggested not having a transition period. The AC3 Committee put a timeline on the decreases that suggested stretching it over an 8 year period (16 years). In future years if there is more funding available, it will adjust accordingly.

Topic: Comparison of AC3 and SGA Proposals with Rebalancing Plan for FY 2014 and Beyond

Mr. Vortmann commented on Dr. Cammen's presentation. This year it seems we have growth and we should use that growth to reach the \$1.2M. Mr. Vortmann also suggested that Sea Grant needs to deal with the states that have two programs when we are struggling to take care of one program in each state. Why not combine these programs? He also suggested that as a policy, the day the total budget doesn't have growth and there is insufficient money in the national strategic initiatives, the policy should be to take monies away from those who are in excess of funding.

Graphs: Rebalancing the Sea Grant Base

Topic: Questions & Comments

Dr. Orbach presented the question on two programs per state issue and how this could be fixed. For example, could we say we are going to give them what they get for one state and they figure out how to organize funds? How would we do it if we tried to address the issue?

Dr. Cammen replied that in 1994, Sea Grant Review Panel looked at exactly that issue. There was a lot of pressure to merge the two California programs. That didn't happen, but from that point on Sea Grant would not allow multiple programs in any other state, but that the two existing states with multiple programs would be grandfathered in.

Mr. Vortmann noted with the AC3 concept, two programs can continue to perpetuate themselves. We aren't talking about their existence; we are talking about funding to them.

Dr. Swann asked if the NSGO plans to use IPAS and how would that affect the rebalancing. Dr. Cammen replied it would come out of the 22.5% going to national activities.

Mr. Vortmann suggested the policy say if there is an increase in total budgeting than those programs doing well will not see a \$1M increase. The money will be used to bring them up to \$1M. Dr. Cammen noted the concept is to work toward achieving the needs-based distribution while also building up the merit pool to reward performance.

Dr. Orbach asked how the needs based will be reassessed from year to year.

Dr. Cammen said that if we receive increases to funding yearly, we will look at the gaps and use the money to fill those gaps until there are no more. The extra money will then be redistributed. Should there be a decrease in funding, we would decrease funding from programs that are best able to handle them. The other option is to cut funding across the board so that all programs receive the same cut.

Mr. Schmitt commended Dr. Cammen and Mr. Vortmann on their work.

NSGO Website and Public Project and Impact Search Update (E.Ban)

Topics: What's New?; Sea Grant Communication; Sea Grant Website; How've we been doing?; Network Social Media; Sea Grant Website.

Ms. Ban asked the NSGAB members if they were interested in getting the announcements on the news stories the NSGO sends out once a week. Mr. Schmitt asked to be added to the list.

Focus Area Updates (T. Newcomer Johnson and E. Bevan, NSGO Knauss Fellows)

2013 Focus Area Annual Reports:

- Healthy Coastal Ecosystems (HCE)
- Healthy Resilient Coastal Communities (HRCC)
- Sustainable Coastal Development (SCD)
- Safe and Sustainable Seafood Supply (SSSS)

Dr. Kim noted the next generation of focus teams has not yet been decided. Groups will be formed, but when is unknown. The Sea Grant Fellows will play a major role in leading the teams.

Topics: Membership updates; Focus Areas; Cross Cutting Gaps; Emerging Themes.

Questions/Comments-

Ms. Newcomer Johnson asked the NSGAB what they think are the important gaps and themes for Sea Grant to grow in the future. They are looking at cross cutting gaps for potential areas that Sea Grant can work on and there are a lot of good projects, but it's difficult to work on all of them. They would like to know what the NSGAB sees as priorities in the future.

Dr. Orbach thanked Ms. Newcomer Johnson and Ms. Bevan for their presentation. Dr. Orbach asked what Sea Grant's position is on discussing the greying of the fleet.

Ms. Newcomer Johnson noted Alaska Sea Grant has played a role in bringing up this issue and there are certain things like policies that we have such as catch shares and how Sea Grant can research the effects of these on communities.

Dr. Kim noted that many Sea Grant Programs are training fisherman to become better at small business, so that a lot of business aspects such as marketing, accounting and quality control are better understood. It's not all limited to growing the fleet, but to help a more professional environment.

Mr. Schmitten listed the emerging themes he feels are important to each focus area. These include: SCD- Successful partnerships; HRCC- Regional collaborations; HCE- Sustainability outreach; and SSSS- Environmental and pollutant monitoring.

Dr. Fortner noted it is not what Sea Grant can do about the gaps and emerging issues, but what can we do with the information we are given. She hopes they will pursue something along the lines of research papers so their work goes beyond just the NSGAB.

Senator Birkholz feels it's imperative to work with coastal resilience communities. There are so many coastal communities at risk and if the Sea Grant communities aren't helping them before hand as things change, then we are in bigger trouble and will cost more to deal with. There is not enough capacity in Sea Grant or any other organization to do the work that needs to be done.

Mr. Simmons commented there are a lot of good stories under the emerging themes which may help people become more aware of their issues.

Mr. Schmitten thanked Ms. Newcomer Johnson and Ms. Bevin and welcomed them to Sea Grant.

(Break)

Sea Grant Education Impacts (R.Fortner, NSGAB)

Dr. Fortner referenced the education one-pager located in the briefing book. It is a quick explanation of what Sea Grant education is and does. It gives an overview of where Sea Grant education needs to go.

Dr. Fortner explained the meaning of what STEM is.

Topic: Sea Grant Education Impacts

Dr. Fortner reported she is looking at how to make Sea Grant education more visible and position it as unique.

Topic: Environmental Literacy and Workforce Development

Dr. Fortner noted Sea Grant needs to look hard at what they are paying for and if it feeds into the environmental literacy and workforce development focus area.

Topic: National Sea Grant Fellowships

Dr. Fortner noted we know who these people are; we have metrics on what they are doing and how these fellowships develop into a career. We don't want any more cuts to our budget. In order to avoid that we need to collect that information from our impacts the way these fellowships do.

Topic: Sea Grant Research

Topic: Planning and Evaluation

Dr. Fortner noted this section only has two education words in it. Most of the planning and evaluation section of this one pager is about the PIE Process and only speaks of education because it is a part of the process. Specifically, education efforts are well managed, cost effective and provide valuable services to stakeholders. We want to be more than that with our education efforts and the kinds of things we are doing with our evaluation does not go beyond this sentence. We want to say they are contributing to the education and are strong enough to be a part of the Sea Grant three-legged stool.

Topic: Appendix IV.

Dr. Fortner reported this section has metrics that are related to the whole program. Many of Sea Grant educators are in extension, but collectively with extension this is what we've come up with that education does this. This does not have an equal weight for a legislature to see what education does. We need better metrics. There needs to be more attention to the kinds of things

that bring Sea Grant education into a professional realm that is equal to what the rest of Sea Grant is proud of.

Sea Grant needs to expect more from their educators. She is hoping that Sea Grant transmits that to their members. This is the only way we are going to survive a consolidation of STEM is to build an education based program. We need to justify how we are doing it and that we have an impact and not just volunteer hours.

Pennsylvania Sea Grant College Status Request (D. Carlson)

Topic: College Status and Next Steps

Dr. Carlson announced Pennsylvania Sea Grant (PASG), which has institutional status, sent the NSGO a letter announcing their intention to apply for college status. This is the same exercise that we started about a year ago with Virginia Sea Grant. PASG is following their footsteps. The NSGAB has no action at this time.

Topic: Criteria for College Status

Questions/Comments

Dr. Orbach asked how budgets are handled like this and is it an open question as to whether this would be approved or not. Is it assumed they're approved if they put together a good proposal?

Dr. Cammen replied, financially, the plan doesn't distinguish between an institution and college status. PASG is underfunded and will eventually be moving toward where they want to be whether they change status or not. It would be up to the reviewers as to whether or not they are approved.

Mr. Schmitt asked how many programs are in institutional status.

Dr. Carlson replied, three programs are in institutional status, two are permanent (2nd program in state) Woods Hole Sea Grant and the University of Southern California Sea Grant. PASG is the only institution that is on track to becoming college status.

Mr. Baker asked Lake Champlain Sea Grant's status.

Dr. Cammen replied, Lake Champlain Sea Grant is currently a Coherent Area Program and are interested in becoming an institutional program, as well as Guam Sea Grant. They have both been Coherent Area Programs for about a year. By our process, they need to put in a couple years demonstrating their success before they can become an institution.

Discussion of afternoon topics and wrap up (R. Schmitt)

Mr. Schmittien thanked everyone for joining and a special thank you to Ms. Ban, Ms. Maggio and Ms. MacDonald.

Action Items:

- Sea Grant Week 2014, September 6-12, 2014.
- Sea Grant Association Meeting, March 11-12, 2014. Admiral West, Dr. Fortner and himself will attend.
- Dr. Mace, Mr. Vortmann and Dr. Orbach will discuss the concepts of a 501c3 and report on their thoughts at the next meeting.
- Dr. Fortner asked the NSGAB to look at the Biennial Report recommendations and provide feedback to her.
- Mr. Schmittien would like Dr. Cammen to circulate the reauthorization bill once it goes for hearing. Dr. Cammen reported we just heard that the mark up is not going to happen; we are up for the mark up next time.
- Ms. Ban noted she will send out the action items as a reminder. All the presentations will be posted on the website on the NSGAB webpage.

Topic: Questions and Comments

Dr. Orbach asked on the status of rebalancing. Mr. Schmittien noted the NSGAB gave their position on the AC3 position paper. Dr. Cammen replied the intent is that it will be implemented once final budget numbers are in. He is open to any advice.

Mr. Vortmann commented that he gave Dr. Cammen his thoughts and suggests a written policy statement. The policy should clarify that all programs base funding would be increased to \$1M and what would happen should the budget decrease. Dr. Cammen replied that there will be a written policy published. Dr. Orbach suggested it goes on record that the NSGAB supports Dr. Cammen movement. Dr. Cammen welcomed a motion.

Motion by Dr. Orbach: To support Dr. Cammen's proposal of rebalancing Sea Grant program funding and to take the NSGAB's comments into account.

2nd Mr. Vortmann, Unanimous approval.

Motion approved.

4:00 PM—Meeting Adjourned

National Sea Grant Advisory Board (NSGAB) Meeting
August 19, 2014
Meeting Minutes

Conference Call
National Sea Grant Office
1315 East West Highway
Silver Spring, Maryland

Tuesday, August 19, 2014

Introductions, review agenda, etc. (R. Schmitten, Chair, NSGAB)

Roll Call:

Board attendees present: Dale Baker, Patricia Birkholz, Paulinus Chigbu, Rosanne Fortner, Amber Mace, Michael Orbach, Nancy Rabalais, Rolland Schmitten, Harry Simmons, William Stubblefield, Richard Vortmann, Richard West, Leon Cammen (*ex-officio*) and LaDon Swann (*ex-officio*)

National Sea Grant Office (NSGO) attendees: Nikola Garber, Chris Hayes, Elizabeth Rohring (Designated Federal Officer)

Other attendees:

Jennifer Maggio-National Sea Grant Office, Contractor, 2020 Company, LLC

Discussion and approval of draft Advisory Board report to Congress on the state of Sea Grant (Report) (R. Fortner, NSGAB)

Dr. Fortner opened the meeting to any comments on the draft 2014 Advisory Board report to Congress on the state of Sea Grant.

- Mr. Schmitten noted that the Boards position on Sea Grant reauthorization should be consistent throughout the document. The topic of reauthorization is located in 4 places (pages 3, 4, 7, 24, 25) and the Boards position is not repeated throughout the document.
 - Comments/Suggestions:

- The Board agrees their position to support the removal of the Sea Grant administrative cap needs to be consistent throughout the document.
 - Mr. Schmitten suggested the wording be added under the section on Metrics and Measures on page 25.
 - Dr. Mace suggested the support to remove the Sea Grant administrative cap should be added to the Executive Summary on page 5.
- Mr. Schmitten referenced the section on Performance Measures and Metrics on page 33. He noted the Board needs to understand where the metrics and measures came from and how they are calculated before presenting to Dr. Kathryn Sullivan, NOAA Leadership, etc.
 - Comments/Suggestions:
 - Mr. Hayes gave a brief overview of the measures and metrics vetting process. Measures and metrics are reviewed and validated by the program. The FY14 Performance Measures and Metrics don't include all economic benefits. Mr. Hayes offered the full list of economic benefits to the Board which includes explanation of how the numbers were reached. Ms. Rohring also gave the Board the option of a briefing to provide them with more examples and explanations of the performance measures and metrics.
 - Dr. Mace asked Mr. Hayes if the numbers are shown as an economic benefit only because Sea Grant exists and if the numbers are broken out separately between what business and or jobs are created or sustained. Mr. Hayes reported the economic benefit is described as jobs and or businesses that would not exist without the help of Sea Grant or not sustained if it were not for Sea Grant. He also noted the numbers are reported separately.
 - Mr. Hayes will provide the Board information on how the performance measures and metrics are reported.
- Mr. Schmitten referenced the section State of the Sea Grant Network where reallocation is referenced on page 7, paragraph 2. He believes this paragraph should be past tense. These actions have already been implemented with Sea Grant.
 - Comments/Suggestions:

- Dr. Cammen noted Mr. Schmitten is correct. The tense ought to be past tense. The policies have been implemented and are in effect.

- Dr. Orbach reported in several different areas of the report where different phrases are used to describe funding. For example on page 5, minimal level of funding; page 7, level of base funding; and on page 24, functional minimum budget. Dr. Orbach recommends one phrase should be used consistently. They all have a different connotation.
 - Comments/Suggestions:
 - Dr. Cammen noted the minimum level of base funding is defined as the base of \$1M. It is intended to guarantee a Sea Grant Program can function as a program. It is a minimum level of base funding.
 - Dr. Cammen noted on page 11, base funding is referred to as minimum funding level.
 - Dr. Fortner tasked the NSGO with rewording the funding portion on page 5 and 11. Dr. Orbach also noted additional pages that need to be reviewed (pg. 7, 8, 11, 24, 28).

- Dr. Fortner noted Mr. Schmitten suggested adding STEM to the opening letter on page 3.
 - Comments/Suggestions:
 - Dr. Rabalais noted the section on STEM is too long.
 - Dr. Fortner suggested minimizing bullets, but they address different levels and audiences.
 - Ms. Rohring noted the section on medication disposal is mentioned twice.

- Dr. Orbach suggested adding the Knauss Program in the summary on page 29, number 4.
 - Comments/Suggestions:

- Dr. Fortner noted the Sea Grant Knauss Program was not targeted. Ms. Rohring reported the Sea Grant OSTP Memo noted that K12 education and the Sea Grant NMFS Fellowship would not be supported.
- Dr. Rabalais reported on the old and new focus areas and how they are inconsistent throughout the report. On page 25 the new focus areas are listed and on page 27 the emerging opportunities are in with the old focus areas. The other two documents on emerging opportunities and potential areas for strategic investment are focused on the new focus areas. The Board agreed to use the new focus areas for the emerging opportunities section.
- Dr. Orbach suggested adding a few words in the executive summary on emerging themes.
- Dr. Orbach noted on page 27, there should be text transitioning the Emerging Opportunities for Sea Grant and the 2014 Recommendations chart.
- Mr. Baker noted on page 18 in the Sea Grant Action under Sea Grant’s Response to Sandy it references there are 360 extension agents. On page 9 under Connecting Science to People and Policy the paragraph mentions there are 400 extension agents. Dr. Cammen noted he will get the correct number.
- Mr. Baker noted on page 28, number 3 the document indicates “Sea Grant has benefited from level funding...” Mr. Baker feels it should be reworded. Dr. Cammen suggested the wording be changed to “Sea Grant has been level funded in the past...”
- Dr. Mace noted there should be a few sentences in the opening of the focus area section that should put these into context.
- Ms. Rohring reported impacts have been added to the Focus Area Impact: Hazard Resilience in Coastal Communities section on page 14 that includes Lake Champlain Sea Grant and Puerto Rico Sea Grant. Ms. Rohring will send the changes to the Board.
- Mr. Vortmann noted the section on Integration with NOAA on page 25 doesn’t mention Sea Grant and feels it is not relevant to the report.
 - Comments/Suggestions:
 - Dr. Fortner noted these details are in response to the 2012 Biennial Report to Congress.

- Mr. Schmitten noted on page 23, the Partnerships section describes the Sea Grant NOAA partnerships in a full paragraph with examples. He feels it is redundant and can be combined.
- Dr. Rabalais suggested taking the useable portion on page 25 and combining it under Partnerships on page 23.
- Dr. Fortner tasked Dr. Garber and Ms. Rohring with combining the two sections and revising the wording under New Focus Areas, Strategic Plan, and Site Visits.

Motion by Mr. Vortmann to approve the draft Advisory Board report to Congress on the state of Sea Grant while providing the committee latitude to make the changes as discussed.

2nd Dr. Orbach; Unanimous approval.

Motion Approved.

Identify Members of the Nominating Committee (R. Schmitten, Chair, NSGAB)

Mr. Schmitten reported that Admiral West agreed to the Vice Chair position for 1 year out of a 2 year term. Mr. Schmitten will recommend a new Nominating Committee in which anyone serving will not be eligible for the 1 year Vice Chair position. Mr. Schmitten nominated himself, Mr. Franklyn Beal and Dr. Nancy Rabalais.

Mr. Schmitten asked any Board members who are interested in becoming Vice Chair to let him know. Dr. Rabalais asked if the position is for 1 year. Ms. Rohring replied the NSGAB is not bound to a 1 year term and she will have to review the procedures manual, but generally the Vice Chair runs the length of the Executive Committee. This does not mean they can't serve for the next 2 years.

Motion by Dr. Mace to approve the recommended Nominating Committee.

2nd Senator Birkholz; Unanimous approval.

Motion Approved.

Motion by Mr. Vortmann to adjourn the meeting.

2nd Dr. Rabalais; Unanimous approval.

Motion Approved.

DRAFT

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Biographies:

Rolland Schmitten, Chair, National Sea Grant Advisory Board

Leon Cammen, Ph.D., National Sea Grant College Program





Rolland Schmitt
Chair, National Sea Grant Advisory Board
Leavenworth, Washington

Rolland A. (Rollie) Schmitt has been a natural resources manager for 44 years; focusing on marine fish, shellfish, and mammals for the past 31 years. He has served as the Washington State Director of Fisheries and the National Marine Fisheries Service West Coast Regional Director for 6 western states. Upon moving to Washington, D.C. he became the Assistant Administrator/Director for the National Marine Fisheries Service; later the U.S. Department of Commerce Deputy Assistant Secretary for International Affairs in NOAA, and the National Director for NOAA Fisheries Office of Habitat Conservation. During his career he served 4 presidents with Presidential appointments as the U.S. Tuna Commissioner, U.S. Atlantic Salmon Commissioner, the Pacific and Alaska Fisheries Management Councils, and 12 years as the U.S. International Whaling Commissioner. His many awards and recognitions include: Presidential Merit Award, Trout Unlimited Washington Sportsman of the Year, Presidential award for outstanding achievement of a Vietnam veteran, and the Department of Transportation (USCG) Commandant's Award for Meritorious Public Service.

In 2005, Mr. Schmitt retired and moved back to Sockeye Point Lodge in Washington State where he continues to work on marine and fresh water resource issues. He is currently serving his 6th year as a Fish and Wildlife Commissioner in Washington State.



Dr. Leon Cammen
Director, National Sea Grant College Program

Dr. Leon M. Cammen is the Director of NOAA's National Sea Grant College Program. Since joining Sea Grant in 1990, Dr. Cammen has been a Program Officer for about half the state Sea Grant Programs and has served as Research Director. From 2004 to 2010, he was the Program Manager for NOAA's Ecosystem Research Program, a matrix program that includes the programs and laboratories from OAR, NOS and NMFS that deal with coastal and ocean ecosystem research.

Prior to joining Sea Grant, Dr. Cammen was a research scientist at Bigelow Laboratory for Ocean Sciences in Maine. His research interests include benthic ecology, the microbial loop, respiratory physiology, benthic-pelagic coupling, and ecosystem modeling. Dr. Cammen has authored over 30 publications in the fields of marine ecology and biological oceanography

Dr. Cammen received his Ph.D. in Zoology from North Carolina State University in 1978. He carried out postdoctoral research as a National Research Council Canada Fellow at the Bedford Institute of Oceanography, as a NATO Fellow at the Institute of Ecology and Genetics of Aarhus University in Denmark, and at Skidaway Institute of Oceanography. In addition, he has been a visiting scientist at Odense University in Denmark and a visiting professor at Aarhus University, teaching Marine Ecology and Microbial Ecology.

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Sea Grant Reauthorization as of July 17, 2014



AMENDMENT NO. _____ Calendar No. _____

Purpose: In the nature of a substitute.

IN THE SENATE OF THE UNITED STATES—113th Cong., 2d Sess.

S. 2030

To reauthorize and amend the National Sea Grant College Program Act, and for other purposes.

Referred to the Committee on _____ and ordered to be printed

Ordered to lie on the table and to be printed

AMENDMENT IN THE NATURE OF A SUBSTITUTE intended to be proposed by _____

Viz:

1 Strike all after the enacting clause and insert the fol-
2 lowing:

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “National Sea Grant
5 College Program Amendments Act of 2014”.

6 **SEC. 2. REFERENCES TO THE NATIONAL SEA GRANT COL-
7 LEGE PROGRAM ACT.**

8 Except as otherwise expressly provided, wherever in
9 this Act an amendment or repeal is expressed in terms
10 of an amendment to, or repeal of, a section or other provi-
11 sion, the reference shall be considered to be made to a

1 section or other provision of the National Sea Grant Col-
2 lege Program Act (33 U.S.C. 1121 et seq.).

3 **SEC. 3. SEA GRANT COLLEGES AND SEA GRANT INSTI-**
4 **TUTES; ANNUAL REPORT ON PROGRESS.**

5 Section 207 (33 U.S.C. 1126) is amended by striking
6 subsection (e).

7 **SEC. 4. DEAN JOHN A. KNAUSS MARINE POLICY FELLOW-**
8 **SHIP.**

9 (a) IN GENERAL.—Section 208(b) (33 U.S.C.
10 1127(b)) is amended by striking “may” and inserting
11 “shall”.

12 (b) PLACEMENTS IN CONGRESS.—Section 208(b) (33
13 U.S.C. 1127(b)), as amended by subsection (a) of this sec-
14 tion, is further amended—

15 (1) in the first sentence, by striking “The Sec-
16 retary” and inserting the following:

17 “(1) IN GENERAL.—The Secretary”; and

18 (2) in paragraph (1), as designated by para-
19 graph (1), in the second sentence, by striking “A fel-
20 lowship” and inserting the following:

21 “(2) PLACEMENT PRIORITIES.—

22 “(A) IN GENERAL.—In each year in which
23 the Secretary awards a legislative fellowship
24 under this subsection, when considering the

1 placement of fellows, the Secretary shall
2 prioritize placement of fellows in the following:

3 “(i) Positions in offices of, or with
4 members on, committees of Congress that
5 have jurisdiction over the National Oceanic
6 and Atmospheric Administration.

7 “(ii) Positions in offices of members
8 of Congress that have a demonstrated in-
9 terest in ocean, coastal, or Great Lakes re-
10 sources.

11 “(B) **EQUITABLE DISTRIBUTION.**—In plac-
12 ing fellows in offices described in subparagraph
13 (A), the Secretary shall ensure, to the degree
14 practicable, that placements are equitably dis-
15 tributed among the political parties.

16 “(3) **DURATION.**—A fellowship”.

17 (c) **EFFECTIVE DATE.**—The amendments made by
18 subsection (b) shall apply with respect to the first calendar
19 year beginning after the date of enactment of this Act.

20 (d) **SENSE OF CONGRESS; ENCOURAGEMENT OF CA-
21 REER DEVELOPMENT.**—It is the sense of Congress that
22 in recognition of the competitive nature of the fellowship
23 under section 208(b) of the National Sea Grant College
24 Program Act (33 U.S.C. 1127(b)), and of the exceptional
25 qualifications of fellowship awardees, the Secretary of

1 Commerce, acting through the Under Secretary of Com-
2 merce for Oceans and Atmosphere, should encourage par-
3 ticipating Federal agencies to consider opportunities for
4 fellowship awardees at the conclusion of their fellowship
5 for workforce positions appropriate for their education and
6 experience.

7 **SEC. 5. DONATIONS.**

8 (a) IN GENERAL.—Section 204(c)(4)(E) (33 U.S.C.
9 1123(c)(4)(E)) is amended to read as follows:

10 “(E) accept donations of money and, not-
11 withstanding section 1342 of title 31, United
12 States Code, of voluntary and uncompensated
13 services;”.

14 (b) PRIORITIES.—The Secretary of Commerce, acting
15 through the Under Secretary of Commerce for Oceans and
16 Atmosphere, shall establish priorities for the use of dona-
17 tions accepted under section 204(c)(4)(E) of the National
18 Sea Grant College Program Act (33 U.S.C.
19 1123(c)(4)(E)), and shall consider among those priorities
20 the possibility of expanding the Dean John A. Knauss Ma-
21 rine Policy Fellowship’s placement of additional fellows in
22 relevant legislative offices under section 208(b) of that Act
23 (33 U.S.C. 1127(b)), in accordance with the recommenda-
24 tions under subsection (c) of this section.

1 (c) REPORT.—Not later than 180 days after the date
2 of enactment of this Act, the National Sea Grant Office,
3 in consultation with the National Sea Grant Advisory
4 Board and the Sea Grant Association, shall—

5 (1) recommend the optimal use of any dona-
6 tions accepted under section 204(c)(4)(E) of the Na-
7 tional Sea Grant College Program Act (33 U.S.C.
8 1123(c)(4)(E)); and

9 (2) report the recommendations under para-
10 graph (1) to Congress.

11 (d) CONSTRUCTION.—Nothing in this section shall be
12 construed to limit or otherwise affect any other amounts
13 available for marine policy fellowships under section
14 208(b) of the National Sea Grant College Program Act
15 (33 U.S.C. 1127(b)), including amounts accepted under
16 section 204(c)(4)(F) of that Act (33 U.S.C. 1123(c)(4)(F)
17 or appropriated under section 212 of that Act (33 U.S.C.
18 1131).

19 **SEC. 6. REPORT ON COORDINATION OF OCEANS AND**
20 **COASTAL RESEARCH ACTIVITIES.**

21 Section 9 of the National Sea Grant College Program
22 Act Amendments of 2002 (33 U.S.C. 857–20) is repealed.

23 **SEC. 7. NATIONAL SEA GRANT ADVISORY BOARD REPORT.**

24 Section 209(b) (33 U.S.C. 1128(b)) is amended by
25 amending paragraph (2) to read as follows:

1 “(2) REPORT.—The Board shall report to the
2 Congress every 3 years on the state of the national
3 sea grant college program. The Board shall indicate
4 in each such report the progress made toward meet-
5 ing the priorities identified in the strategic plan in
6 effect under section 204(c). The Secretary shall
7 make available to the Board such information, per-
8 sonnel, and administrative services and assistance as
9 it may reasonably require to carry out its duties
10 under this title.”.

11 **SEC. 8. PROGRAM ELEMENTS.**

12 Section 204(b) (33 U.S.C. 1123(b)) is amended by
13 inserting “for research, education, extension, training,
14 technology transfer, and public service” after “financial
15 assistance”.

16 **SEC. 9. AUTHORIZATION OF APPROPRIATIONS.**

17 (a) IN GENERAL.—Section 212(a) (33 U.S.C.
18 1131(a)) is amended—

19 (1) in paragraph (1), by striking subparagraphs
20 (A) through (F) and inserting the following:

21 “(A) \$72,000,000 for fiscal year 2015;

22 “(B) \$75,600,000 for fiscal year 2016;

23 “(C) \$79,380,000 for fiscal year 2017;

24 “(D) \$83,350,000 for fiscal year 2018;

25 “(E) \$87,520,000 for fiscal year 2019; and

1 “(F) \$91,900,000 for fiscal year 2020.”;

2 and

3 (2) by amending paragraph (2) to read as fol-
4 lows:

5 “(2) PRIORITY ACTIVITIES.—In addition to the
6 amounts authorized under paragraph (1), there is
7 authorized to be appropriated for each of fiscal years
8 2015 through 2020 \$6,000,000 for competitive
9 grants for the following:

10 “(A) University research on the biology,
11 prevention, and control of aquatic nonnative
12 species.

13 “(B) University research on oyster dis-
14 eases, oyster restoration, and oyster-related
15 human health risks.

16 “(C) University research on the biology,
17 prevention, and forecasting of harmful algal
18 blooms.

19 “(D) University research, education, train-
20 ing, and extension services and activities fo-
21 cused on coastal resilience and U.S. working
22 waterfronts and other regional or national pri-
23 ority issues identified in the strategic plan
24 under section 204(c)(1).

1 “(E) University research on sustainable
2 aquaculture techniques and technologies.

3 “(F) Fishery extension activities conducted
4 by sea grant colleges or sea grant institutes to
5 enhance, and not supplant, existing core pro-
6 gram funding.”.

7 (b) LIMITATIONS.—Section 212(b)(1) (33 U.S.C.
8 1131(b)(1)) is amended to read as follows:

9 “(1) ADMINISTRATION.—

10 “(A) IN GENERAL.—There may not be
11 used for administration of programs under this
12 title in a fiscal year more than 5.5 percent of
13 the lesser of—

14 “(i) the amount authorized to be ap-
15 propriated under this title for the fiscal
16 year; or

17 “(ii) the amount appropriated under
18 this title for the fiscal year.

19 “(B) CRITICAL STAFFING REQUIRE-
20 MENTS.—The Director shall use the authority
21 under subchapter VI of chapter 33 of title 5,
22 United States Code, to meet any critical staff-
23 ing requirement while implementing the activi-
24 ties authorized in this title. The costs associated
25 with that exercise of authority shall not be

1 counted toward the cap under subparagraph
2 (A).”.

3 (c) ALLOCATION OF FUNDING.—

4 (1) IN GENERAL.—Section 204(d)(3) (33
5 U.S.C. 1123(d)(3) is amended—

6 (A) by striking “With respect to sea grant
7 colleges and sea grant institutes” and inserting
8 “With respect to sea grant colleges, sea grant
9 institutes, sea grant programs, and sea grant
10 projects,”; and

11 (B) in subparagraph (B), by striking
12 “funding among sea grant colleges and sea
13 grant institutes” and inserting “funding among
14 sea grant colleges, sea grant institutes, sea
15 grant programs, and sea grant projects”.

16 (2) EXCESS AMOUNTS.—Section 212 (33
17 U.S.C. 1131) is amended—

18 (A) by striking subsection (c); and

19 (B) by redesignating subsections (d) and
20 (e) as subsections (c) and (d), respectively.

LaDon Swann, Ph.D., President, Sea Grant Association

Biography & Presentation: Sea Grant Association Update





LaDon Swann
President, Sea Grant Association

LaDon Swann is Director of the Mississippi-Alabama Sea Grant Consortium (MASGC), and Director of the Auburn University's Marine Programs. He received BS and MS from Tennessee Technological University and a Ph.D. from Purdue University. LaDon is responsible for implementing practical solutions to coastal issues through competitive research, graduate student training, and extension and outreach and K-12 education in Alabama and Mississippi. LaDon also has over 26 years of experience designing, delivering and evaluating engagement programs addressing local, regional and national needs. LaDon is actively involved in regional engagement through the NOAA Gulf of Mexico Regional Collaboration Team, multiple Gulf of Mexico Alliance priority issues teams. During 2010 and 2011 LaDon served on the Oil Spill Recovery Commissions for Alabama and Mississippi, Gulf Coast Ecosystem Restoration Task Force, and served as a primary point of contact for NOAA's engagement efforts. In 2012 LaDon served on the Mississippi GoCoast 2020 oil spill recovery planning effort. LaDon is the President of the National Sea Grant Association, member of the Ocean Research Advisory Panel and co-chair of Sea Grant's Hazard Resilient Coastal Communities Focus Team. LaDon is also a past-president of the U.S. Aquaculture Association. LaDon's wife Roberta and sons, William and Gage, live near Dauphin Island, AL.

SGA President's Report to the NSGAB



**LaDon Swann
Mississippi-Alabama Sea Grant Consortium
September 2014**

Self-Reflection

**“When we know what we most fear,
we know what we most care about.”**

— Patti Digh

“It is necessary ... for a man to go away by himself ... to sit on a rock ... and ask, 'Who am I, where have I been, and where am I going?’”

— Carl Sandburg



Operational

Operational

- **Fiscal and Meeting Management**
 - Hired Devaney Cherie
- **Governmental affairs transition**
 - Oldaker to Federal Science Partners
- **Updated By-laws to expand Program Mission Committee network liaisons**



SGA Election

- **Sylvain De Guise – President**
- **James Hurley – President-Elect**
- **Charles Hopkinson – Secretary (1 yr)**
- **Nancy Targett – Treasurer (1 yr)**
- **Karl Havens – PMC Chair (2 yrs)**
- **Susan White – At Large (2 yrs)**
- **Robert Twilley – At large (1 yr)**
- **LaDon Swann – Past President**

Program Mission Committee

- **PMC**
 - Performance Measures Optimization
 - NSI prioritization
- **2016-2017 NSI input**

Communications



- **SGA Logo**
- **Web site**
- **Facebook**

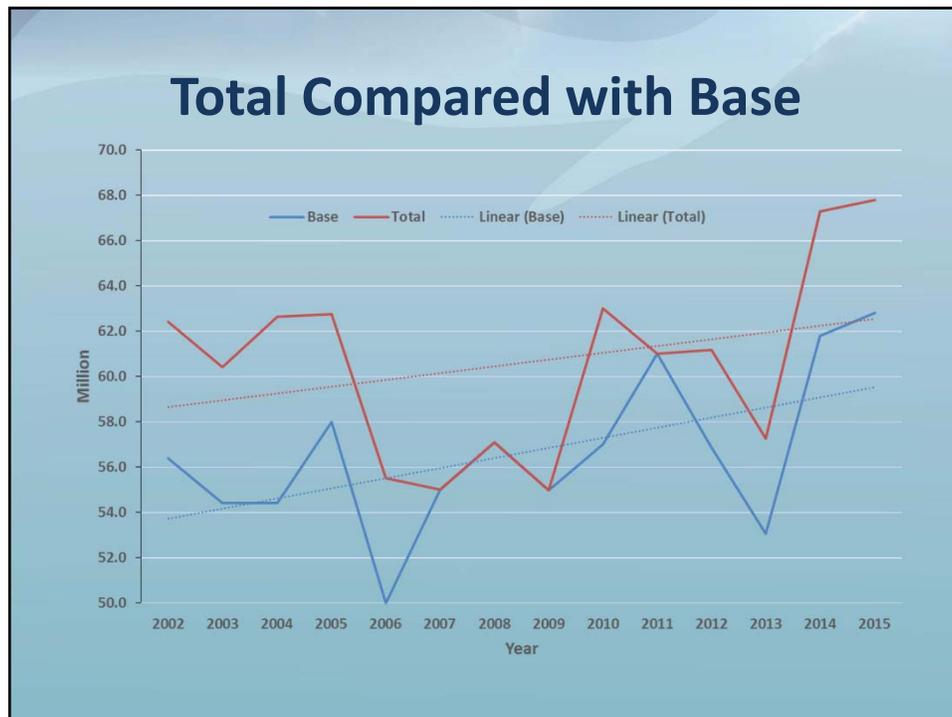


Strategic

Growth

**“If you want something new,
then you have to do
something different”**

**Coastal Community Resilience
and all that it implies?**



Congressional and Agency Communications

- **Congressional briefings**
 - Spring 2013 and 2014
 - Fall 2013
- **Testimonies**
 - Oral
 - Written
- **Knauss Receptions**

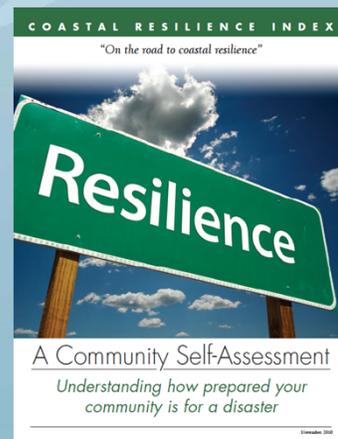
Sea Grant Association Award

- Frank Wolf (2013, VA)
- Barbara Mikulski (2013, MD)
- Jo Bonner (2013 fall, AL)
- Roger Wicker (2014, MS)
- Sam Farr (2014, CA)



Communications

- **SG messaging**
 - \$50K from SGA reserves to development a Strategic Communication Plan: Coastal Resiliency



Messaging Outcomes

- Ensure long-term federal funding
- Enhance internal/external national communication capability
- Solidify Sea Grant's value to NOAA
- Engage the support of national NGOs
- Ensure the DOC, OMB and White House understand Sea Grant's effectiveness in addressing coastal issues

NOAA Coastal Roundtable

- NOS led
 - Sea Grant representation
 - NSGO and SGA
 - Monthly calls
 - First real step in implementing a strategy to respond to OMB's questions about integration of NOAA's Coastal Programs

Joint Efforts with the NSGAB and NSGO

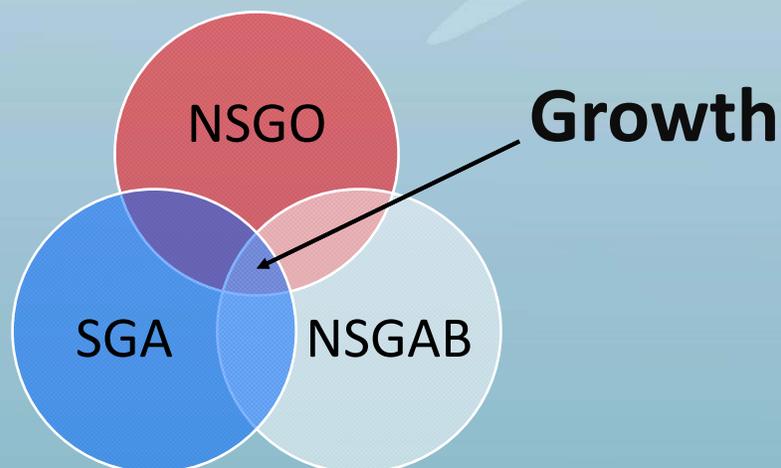
- **Allocation 3.0**
 - Jonathan Pennock
 - Sylvain De Guise
- **NSGAB Biennial Report**
 - Dennis Nixon
 - Jeff Reuter
- **Program Implementation and Evaluation**
 - Jim Hurley
 - Jim Eckman
 - Sylvain De Guise

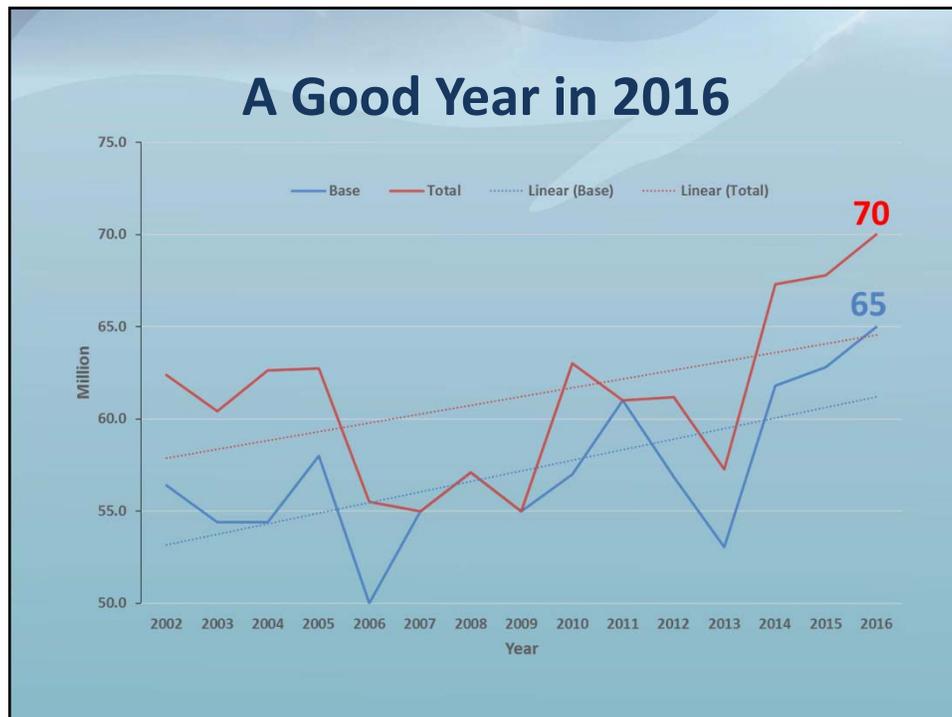
Unfinished Business

Unfinished Business

- **Growth**
 - \$15 of the \$20 million in Federal Growth
 - Strategic Communication Plan: Coastal Resiliency
 - To succeed SG should spend at least 50% of its effort on growth

When We are at Our Best





Unfinished Business

- **2014 Fall/Winter Congressional Briefing**
- **Transition Meeting between current and next Board**
- **NOAA visits**
 - Chief Scientist
 - Holly Bamford
 - Others

Unfinished Business

- **2015-2019 Sea Grant Reauthorization**
 - **2014 Effort to Reauthorize SG**
 - Kanuss Fellowship
 - STEM
 - Authorized Levels
 - Administration costs
 - **2015 Effort to Reauthorize SG**
 - 2014 laid the groundwork for trying again in 2015
 - Should allow introduction and passage in Senate early enough for House to introduce and pass their version.

New Business

- **Sea Grant's Golden Anniversary**
 - Sea Grant Association Historian
 - Planning committee
 - NSGAB
 - NSGO
 - SGA



Karl Havens, Ph.D., Director, Florida Sea Grant College Program

Biography & Presentation: Florida Sea Grant College Program Highlights





Dr. Karl Havens
Director, Florida Sea Grant College Program and
Professor, University of Florida Program of Fisheries and Aquatic Sciences

Dr. Havens is Director of the Florida Sea Grant College Program and a Professor in the University of Florida Program for Fisheries and Aquatic Sciences. As Director he provides leadership for strategic planning, program implementation, formation of strategic partnerships and investment of program resources. He is responsible for the objectivity, scientific rigor, responsiveness and impact of the Florida Sea Grant College Program, and for oversight of a program that expends approximately \$7M annually on applied coastal research, education and extension. He represents the program and enhances its value to the citizens of Florida and the National Sea Grant College Program through effective communication with and engagement of state and federal agencies, non-for-profit institutes, elected officials and other decision makers, and the people of Florida who have an interest in the economic and environmental sustainability of Florida's coastal systems. Dr. Havens has 30 years of professional experience in aquatic research, education and outreach, and has worked with Florida aquatic ecosystems and the use of objective science in their management for the past 20 years. His area of research specialty is eutrophication of lakes and estuaries. Dr. Havens has published over 140 peer-reviewed journal articles, several book chapters, invited review papers and an edited book with colleagues in the P.R. China. He has research collaborations with scientists in Canada, England, Italy, Denmark, Brazil, Japan, China, Korea and the Netherlands. He is the founding editor of the electronic journal *Freshwater Systems*, and served as Associate Editor for *Environmental Pollution* for over 14 years. He is a member of the Scientific Advisory Board for the *Korean Journal of Limnology*, and for the last five years has been the Associate Editor of the international journal *Hydrobiologia*. He is a member of the Florida Oceans and Coastal Resources Council, which provides the Florida Legislature with an annual research plan addressing critical coastal issues; a member of the Florida Ocean Alliance, a non-partisan organization dedicated to bringing together government, academic and private sectors in Florida to protect and enhance the coastal and ocean resources; and a member of the Board of Directors of the Florida Institute of Oceanography. At the University of Florida, he has served as Chair of the UF Oil Spill Task Force and currently is Chair of the UF Oyster Recovery Team, which is dealing with the collapse of a historic oyster fishery in Apalachicola Bay, Florida.

Ocean and Coastal Issues in Florida

Florida Sea Grant Responds

Presentation to the National Sea Grant Advisory Board, Sept 2014

Karl Havens

*Director, Florida Sea Grant College Program
Professor, University of Florida*

Florida Sea Grant College Program



Outline

- Introduction to Florida Sea Grant
- Research and Extension on Coastal Issues
- Emerging Issues for Florida and the Nation's Coast

Florida Sea Grant College Program



Introduction to Florida Sea Grant

Florida Sea Grant College Program



State-Wide Program Structure

SUS Board of Governors and FL Legislature

University of Florida

FSG admin. office, Director, Associate Directors, and 6 Coastal Extension Specialists; plus broad faculty research expertise



Florida Academic Institutions

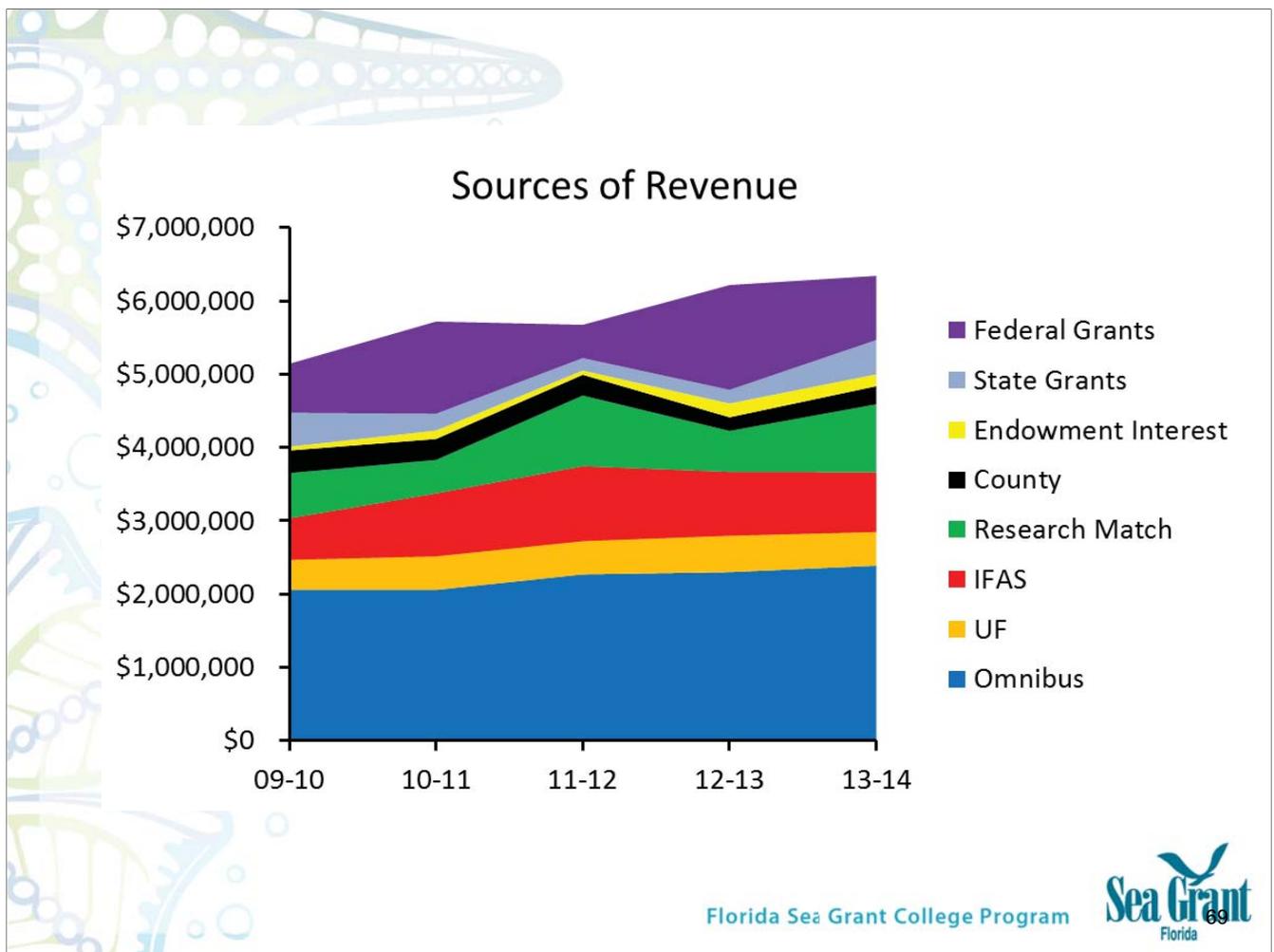
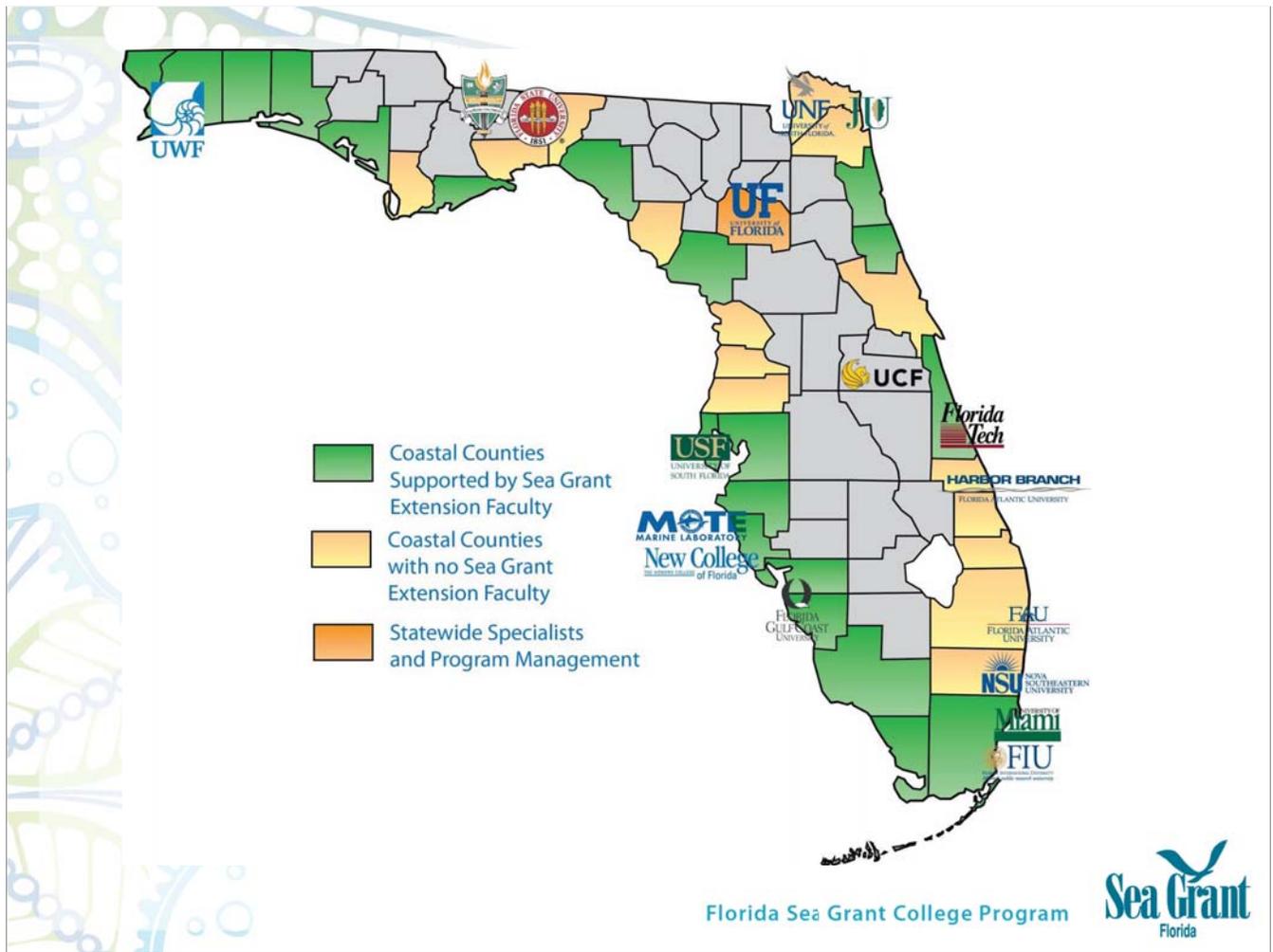
Florida Coastal Counties

Over 800 ocean and coastal research faculty

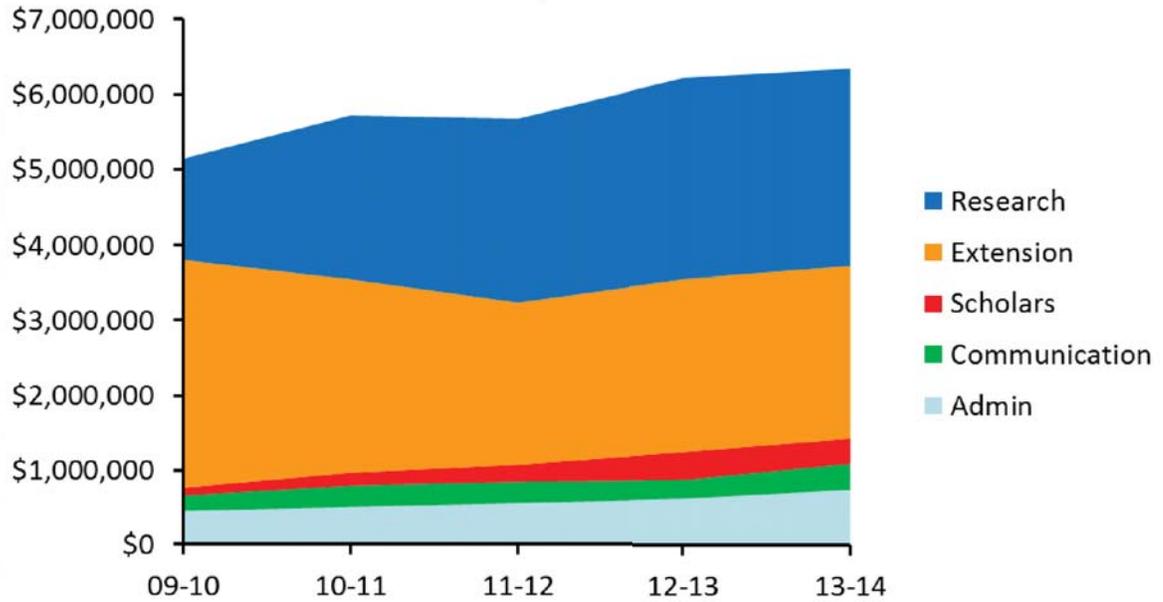
20 marine extension agents housed in county offices and cost-shared with counties

Florida Sea Grant College Program





Annual Expenditures



Florida Sea Grant College Program



Research and Extension on Coastal Issues

Florida Sea Grant College Program



(1) Outreach: Gulf of Mexico Research Initiative

- \$500M GoMRI oil spill research program
- Gulf of Mexico Sea Grant programs contracted to lead the GoMRI outreach program



Florida Sea Grant College Program



(2) Habitat Restoration Training Program



Florida Sea Grant College Program



(3) The Regional Waterway Management System

Regional Waterway Management System

A GIS-based framework for achieving municipal, county, and state goals of facilitating safe navigation and reducing impacts on aquatic habitats.

Begins with scientific data and results in the implementation of regional waterway management policy.

Methodology — unbiased, objective approach to waterway management — accepted by state of Florida.

-  Completed & State Rule Adopted
 -  Completed / State Rule not yet Adopted
- [just adopted in 2014]



Florida Sea Grant College Program



Photo Credit: USGS - Sirenia Project

Florida Sea Grant College Program





Florida Sea Grant College Program



Figure 1. Trafficshed Locations

gram

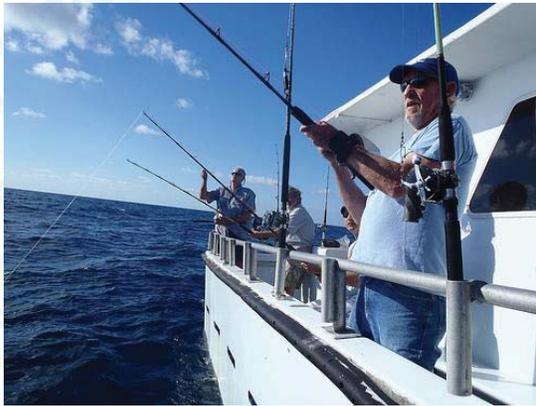


Results and Benefits of the RWMS:

- Sea Grant provided the West Coast Inland Navigation District has GIS tool that keeps track of channel depths, boat locations and drafts, and priority needs for dredging
- Dredging permits now are covered under one single blanket permit that is protective of seagrass
- Savings of over \$1.5M tax dollars a year in just the two areas where the program was implemented prior to 2014

(4) Enhancing survival in catch & release fishing

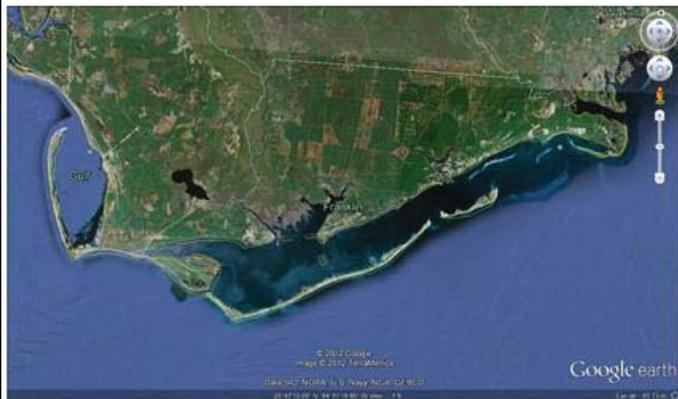
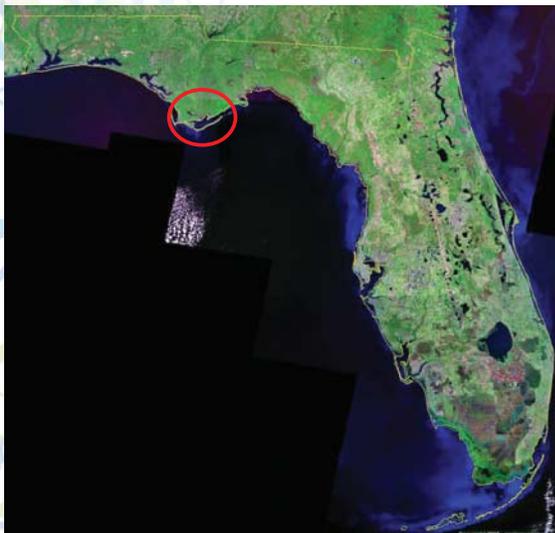
- Marine recreational fishing \$6B a year in FL
- Millions of fishing trips
- Much is 'catch and release'
- Fish caught from depth experience barotrauma
- Existing fishing regulation required venting, a method developed by FL Sea Grant in the 1990's
- Now FL Sea Grant has pilot tested other methods
- **The state has now amended its regulations**



Florida Sea Grant College Program



(5) Responding to a Disaster: Collapse of a historic oyster fishery



Florida Sea Grant College Program

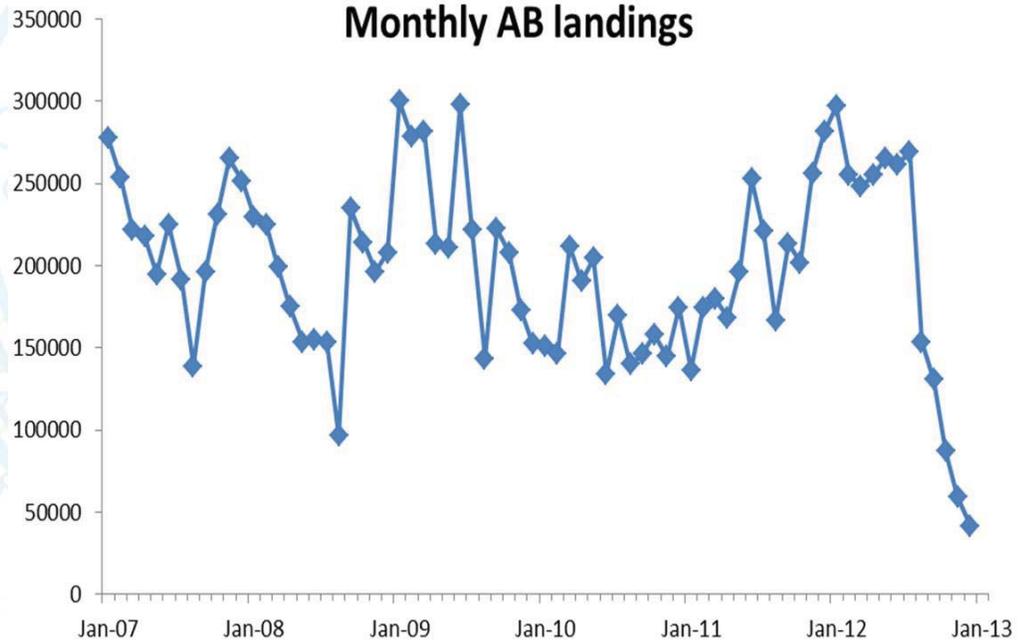




Florida Sea Grant College Program



Monthly AB landings



Florida Sea Grant College Program

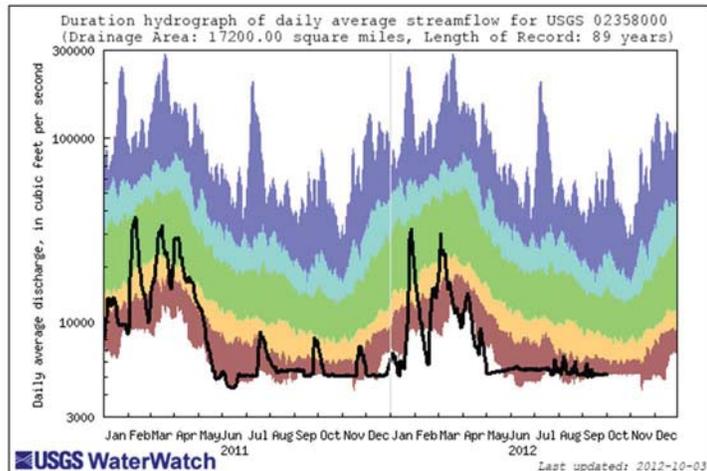
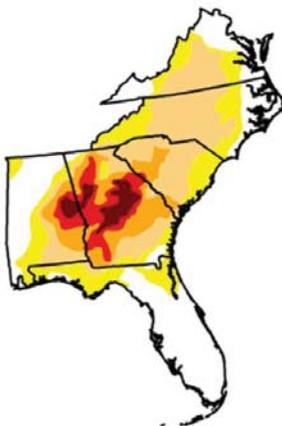


Oyster Recovery Team

Florida Sea Grant led a team of university and agency scientists, oyster harvesters, oyster dealers, residents and NGOs to address the issue.

- Mine existing data to identify the cause
- Collect new data to support that effort
- Intensive outreach w/ industry & community
- Winter 2012 – ongoing through at least 2019
- Initial work with \$250K from UF; now grant funded

Florida Sea Grant College Program



Released Thursday, November 29, 2012
National Drought Mitigation Center,

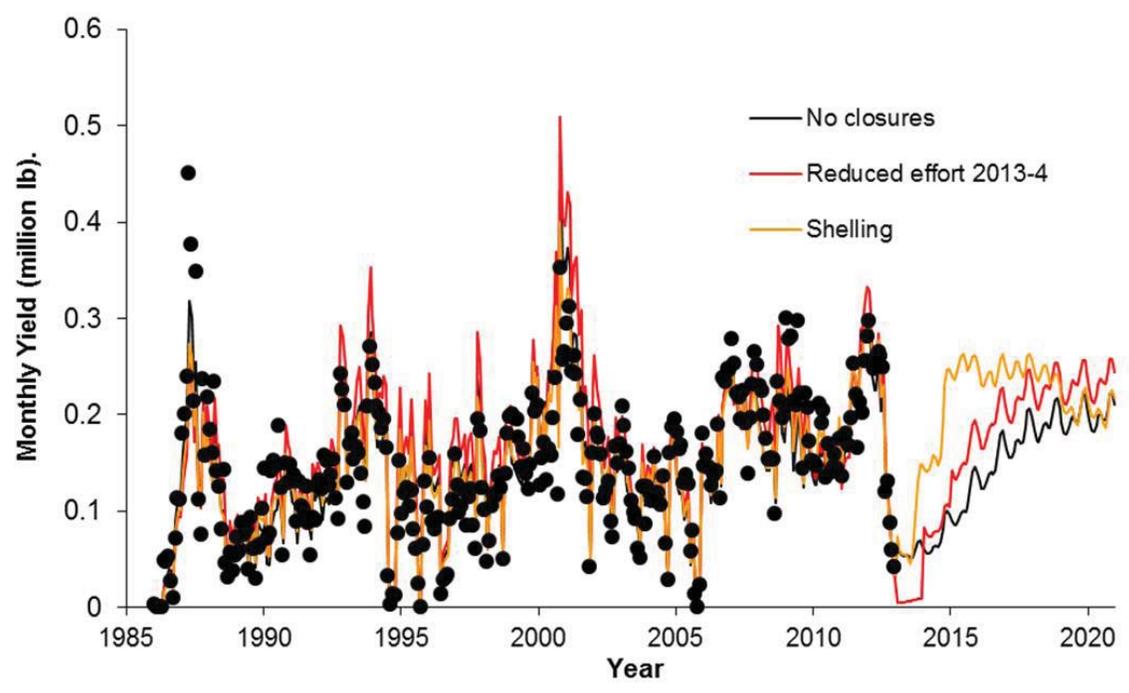
Explanation - Percentile classes				
lowest 10th percentile	10-24	25-75	76-90	90th percentile -highest
Much below normal	Below normal	Normal	Above normal	Much above normal
				Flow

Florida Sea Grant College Program





Florida Sea Grant College Program



Florida Sea Grant College Program



Outcomes

- Declaration of a fisheries disaster by NOAA
- Approximately **\$6M Congressional relief** money
- Large-scale reef restoration projects in 2016-20
- National Fish and Wildlife Foundation grant \$5M to Florida FWC, UF and Florida Sea Grant. **Sea Grant lead PI on \$1.5M research project** to evaluate effects of salinity, substrate quality and harvest pressure on oyster health and production.

(6) Research Technology Transfer

Issue: need for research projects that are ready for transfer to the private sector for commercial production or agency application

Solution: special category of research projects; evaluated by experts and selected by a panel of business leaders based potential for application

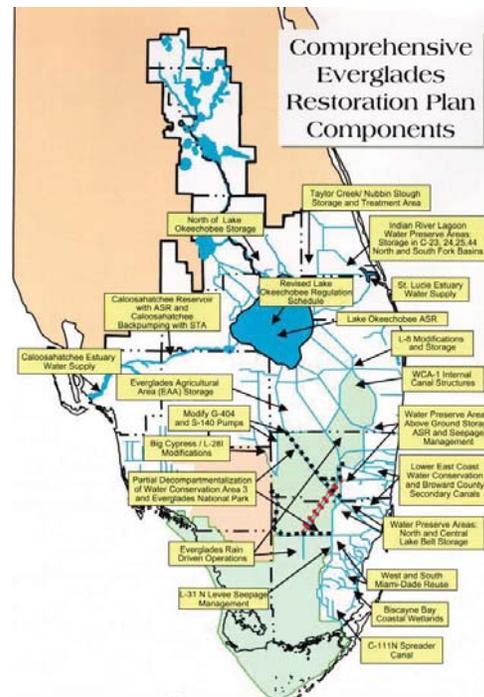
Results of First Trial: research in partnership with a commercial roofing company to produce a new product to strengthen old roofs against hurricane force winds



Florida Sea Grant College Program



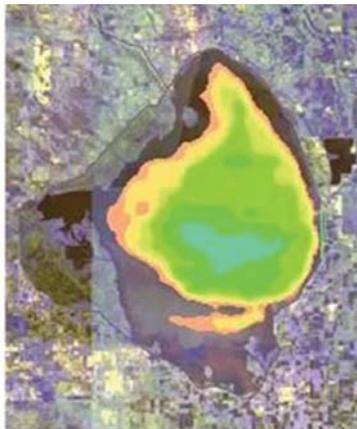
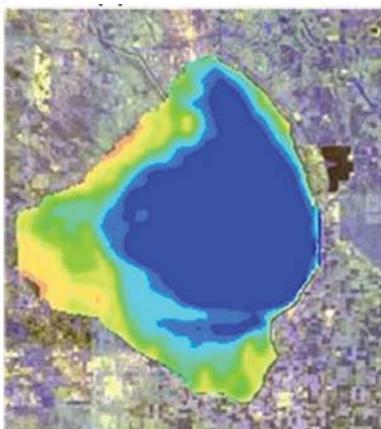
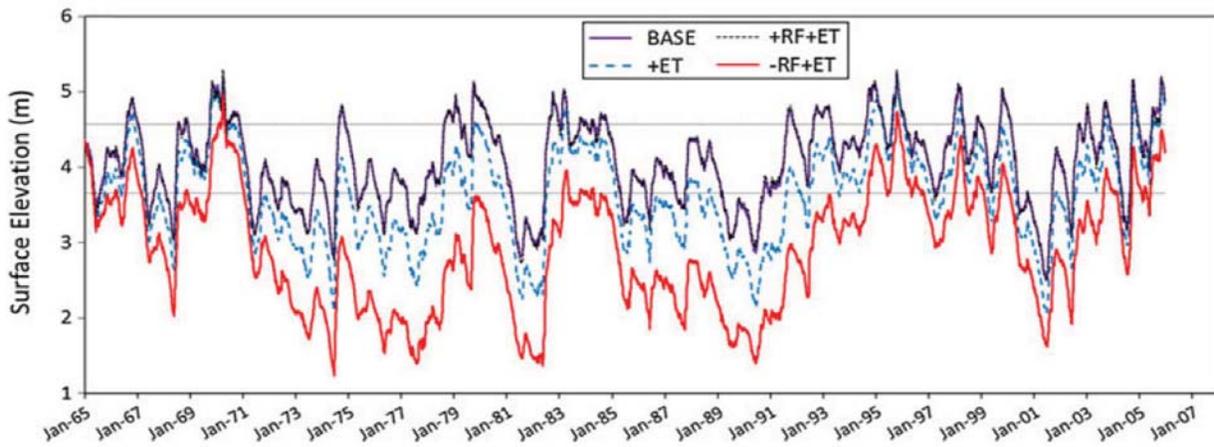
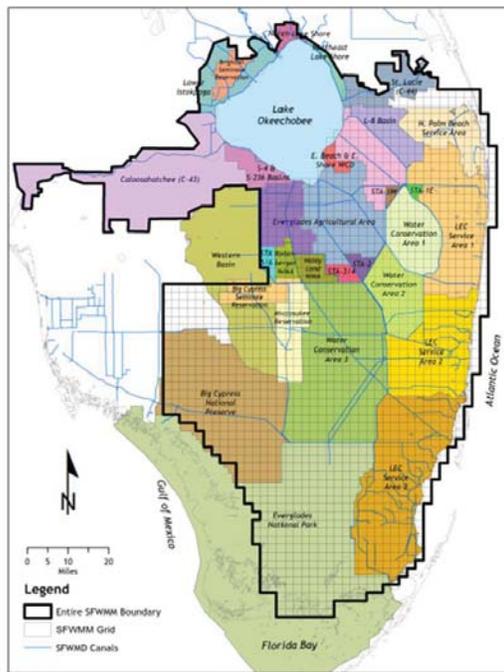
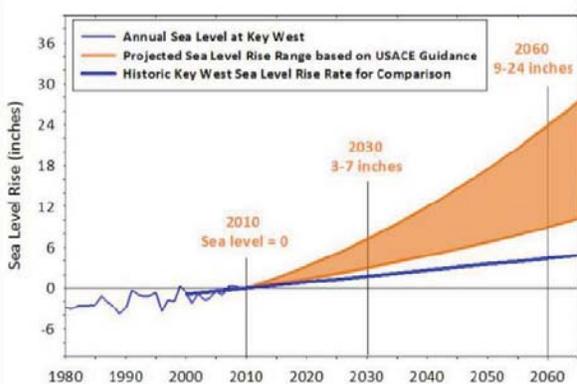
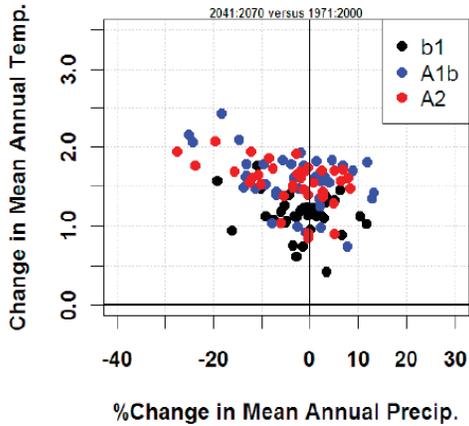
(7) Everglades Restoration and Climate Change



Florida Sea Grant College Program



Everglades



Outcomes:

- Follow-up meetings with CERP leadership team in 2014 and 2015
- Restoration leaders seeking specific guidance from university scientists re. modifications to CERP in uncertain climate future
- Strong partnerships have been developed to address this issue



Florida Sea Grant College Program



Emerging Issues

Severe shortage of freshwater

Coastal hazards and climate change

Public health and climate change

Lack of adequate ocean governance

Florida Sea Grant College Program



Shortage of Freshwater

- Increased consumptive use
- Potential increase in future temperature and ET
- Potential for longer droughts in the future
- Sea level rise
- High risk for impacts to estuaries and their many ecosystem services
- **SG research can guide coastal resource & fisheries management; SG outreach can target water conservation and reuse**

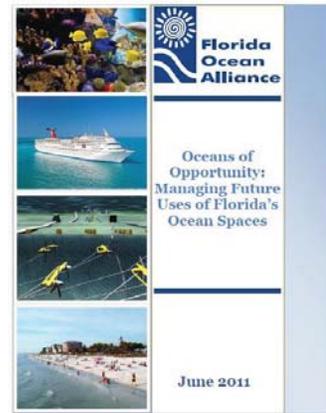
Vulnerable coastal populations

- Storm surge / sea level rise
- Coastal flooding
- Shortages of potable water
- Increased health issues related to heat stress
- Increased in water-borne diseases
- **SG has a history of working on these issues, but may need to increase expertise in some areas such as human health**

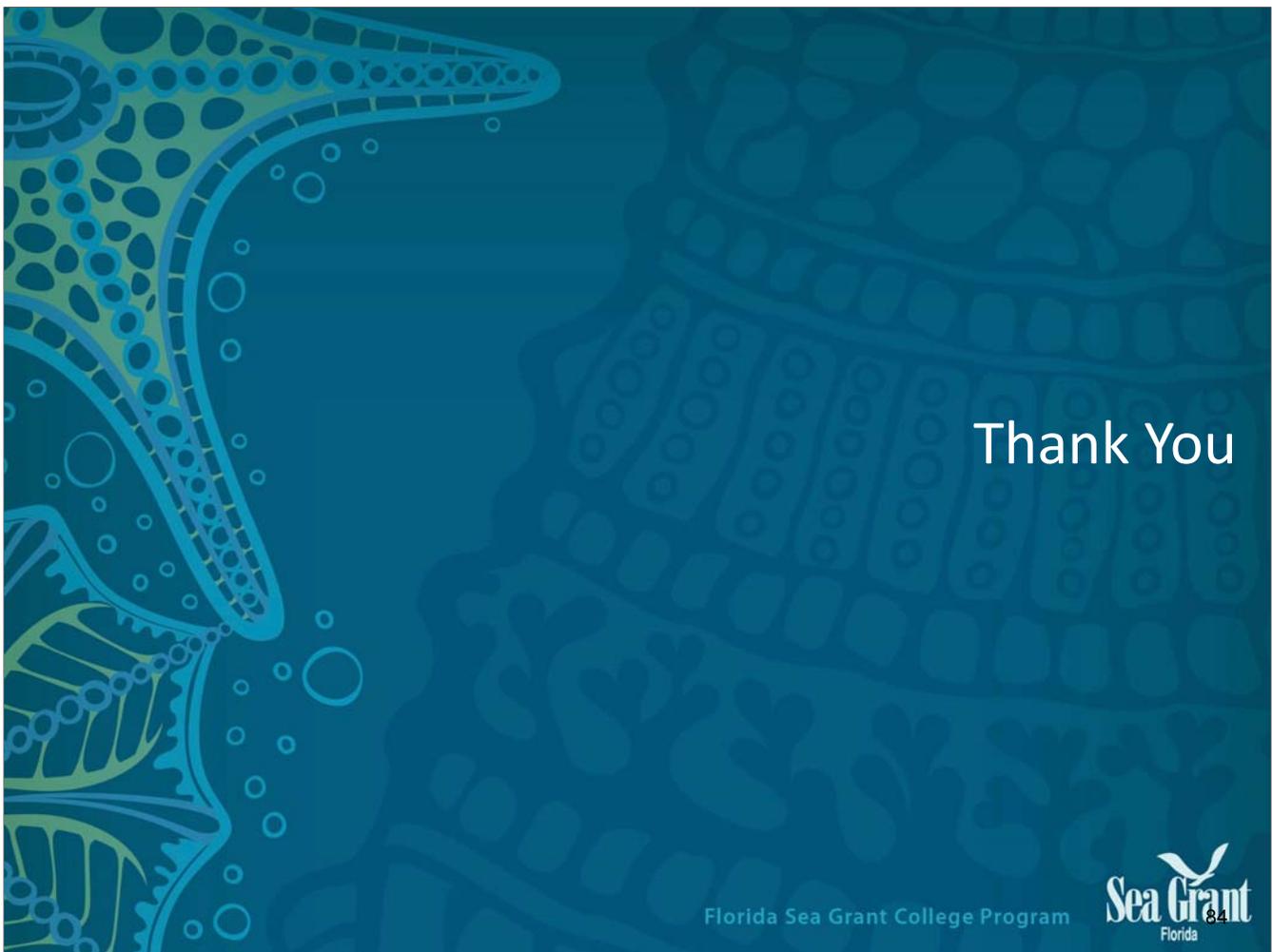


Ocean Governance

- Increased use of coastal waters
- Conflicting uses
- Lack of pro-active planning
- **SG and its partners can play a role in facilitating forward-thinking planning and action on this issue**



Florida Sea Grant College Program



Thank You

Florida Sea Grant College Program



Rosanne Fortner, Ph.D., Chair, Biennial Report Subcommittee,
National Sea Grant Advisory Board

Biography & Discussion and Vote:

Draft 2014 Biennial Report to Congress (handout at meeting)





Rosanne Fortner
Oak Island, NC

Dr. Rosanne Fortner is a retired professor of environmental science education from The Ohio State University and a former middle school science teacher. In her 27 years at OSU she taught environmental communications and education to undergraduates and graduate students on campus, and Great Lakes interdisciplinary sciences for educators at F.T. Stone Laboratory on Lake Erie. From a position as a project investigator, she coordinated the Ohio Sea Grant Education Program until 2005. Her research was directed at identifying needs for science education programs and training, comparing effectiveness of methods for Earth system science education, and assessing the impact of environmental education programs in field and classroom settings. Curriculum development and assessment were also an important part of her responsibilities as an educator, and her 12 books of curriculum activities were funded by Ohio Sea Grant, the National Science Foundation, Great Lakes Protection Fund and other sponsors. She works with current Ohio Sea Grant investigators to bring the curricula into modern technological forms, and to match Great Lakes with marine science learning through online teaching. Dr. Fortner was the Director of the Center for Ocean Science Education Excellence [COSEE] Great Lakes, a collaboration of the seven Sea Grant Education programs in the region, with NSF and Sea Grant support from 2006-2010. With her assistance the scientists and educators of that program developed the Great Lakes Literacy Principles. Fortner is the author of over 80 research and education-based publications, has advised 15 PhDs and 50 MS programs to completion, and served as a Fulbright Senior Scholar in Cyprus. She is currently Co-Chair of the Oak Island Beach Preservation Society at her retirement home in North Carolina.

Pennsylvania Sea Grant Program Status

Charge to Board &

Document: Program Policy for the Allocation of Funds, FY 2003 and Beyond





**UNITED STATES DEPARTMENT OF
COMMERCE**
**National Oceanic and Atmospheric
Administration**
NATIONAL SEA GRANT COLLEGE PROGRAM
1315 East-West Highway, Silver Spring, MD 20910

August 27, 2014

Mr. Rolland Schmitten
Chair, National Sea Grant Advisory Board
1315 East West Highway
Silver Spring, MD 20871

Dear Mr. Schmitten,

Pennsylvania Sea Grant has given us notice that they intend to apply for designation as a Sea Grant College. They are eligible to do so because they have been successfully operating as a Sea Grant Institutional Program for at least three years. (This requirement is listed in the document "Program Policy for the Allocation of Funds, FY2003 and Beyond"). By law, Sea Grant College status is conferred by the Secretary of Commerce (Secretary). According to the Sea Grant legislation (33 U.S.C. § 1128), the National Sea Grant Advisory Board (Board) shall advise the Secretary and the Director concerning the designation of Sea Grant Colleges and Sea Grant Institutes.

This is a formal request to the Board to convene a Task Group to conduct a review of the Pennsylvania Sea Grant Institutional Program. Current FACA regulations require that at least one Board member be on this Task Group. The Task Group will serve as a subcommittee of the Board, and present their findings to the Board so that they may provide a final recommendation.

The charge to this Task Group is to complete a review of the Pennsylvania Sea Grant Institutional Program's request for Sea Grant College Status with a final report submitted to the Board by February 1, 2015. This report will include a review of Pennsylvania Sea Grant's application for College Status and supporting documentation such as their strategic plan and recent performance evaluations, and the process will also include a site visit to Pennsylvania Sea Grant in October, 2014.

I would ask the Board to review the report of the Task Group and forward it to me with Board recommendations and comments by the spring advisory board meeting scheduled for March 2-3, 2015. Once approved by the full Board, I will forward the recommendation to the Secretary.

The criteria for the review to address are set forth in regulation at 15 CFR 918.3, and are:

(1) Leadership. Is the candidate an intellectual and practical leader in marine science, engineering, education, and advisory service in its state and region?



(2) Organization. Has the candidate created the necessary management organization to carry on a viable and productive Sea Grant Program, and does the candidate have backing of its administration at a sufficiently high level to fulfill its multidisciplinary and multifaceted mandate?

(3) Relevance. Is the candidate's program relevant to local, State, regional, or National opportunities and problems in the marine environment? Important factors in evaluating relevance are the presence of an emphasis on marine resources, and the extent to which capabilities have been developed to be responsive to that need.

(4) Programmed team approach. Does the candidate have a programmed team approach to solving marine problems, which includes relevant, high quality, multidisciplinary research with associated educational and advisory services capable of producing identifiable results?

(5) Education and training. Is education and training clearly relevant to National, regional, State and local needs in fields related to ocean, Great Lakes, and coastal resources? (Education may include pre-college, college, post-graduate, public and adult levels.)

(6) Advisory services. Does the candidate have a strong program through which information, techniques and research results from any reliable source, domestic or international, are communicated to, and utilized by, user communities? In addition to the educational and information dissemination role, does the advisory service program aid in the identification and communication of user communities' research and educational needs?

(7) Relationships. Does the candidate have close ties with Federal agencies, State agencies and administrations, local authorities, business and industry, and other educational institutions? Do these ties: (i) ensure the relevance of its programs, (ii) give assistance to the broadest possible audience, (iii) involve a broad pool of talent in providing assistance and (iv) assist others in developing research and management competence? (The extent and quality of an institution's relationships are critical factors in evaluating the institutional program)

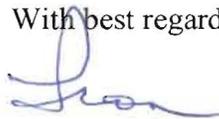
(8) Productivity. Does the candidate have substantial strength in the three basic Sea Grant activities: research, education and training, and advisory services?

(9) Support. Does the candidate have the ability to obtain matching funds from non-Federal sources, such as state legislatures, university management, state agencies, business, and industry? A diversity of matching fund sources is encouraged as a sign of program vitality and the ability to meet the Sea Grant requirement that funds for the general programs be matched with at least one non-Federal dollar for every two Federal dollars.

(10) Continuity of high performance. Does the candidate demonstrate the ability to continue the pursuit of excellence and sustain the following? (i)high performance in marine research, education, training, and advisory services; (ii)leadership in marine activities including coordinated planning and cooperative work with local, state, regional, and Federal agencies, other Sea Grant programs, and non-Sea Grant universities; (iii)effective management framework and application of institutional resources to the achievement of Sea Grant objectives; (iv)long-term plans for research, education, training, and advisory services consistent with Sea Grant goals and objectives; (v)furtherance of the Sea Grant concept and the full development of its potential within the institution and the state; (vi)adequate and stable matching financial support for the program from non-Federal sources; and (vii)effective system to control the quality of its Sea Grant programs.

Jonathan Eigen will act as the National Sea Grant Office liaison to the Task Group and be a member of the site visit team. When a Chair has been chosen, please ask him/her to call Jonathan to discuss next steps and determine needs for staff support to the Panel.

With best regards,



Leon M. Cammen
Director
National Sea Grant College Program

Attachment: Policy for the Allocation of Funds, FY 2003 and Beyond

cc: E. Rohring
J. Eigen



MAR 11 2003

MEMORANDUM FOR: Sea Grant Directors
University Direct Reports

FROM: Ronald C. Baird 

SUBJECT: Policy for the Allocation of Funds, FY 2003
and Beyond

The Sea Grant Act of 2002 contains language specific to the allocation of funds for the National Sea Grant College Program. In conformance with the Act, NOAA's National Sea Grant Office has established new guidelines for fund allocation. Those guidelines are encompassed in the attached policy document entitled, "**Policy for the Allocation of Funds, FY 2003 and Beyond.**" The new allocation policy is effective immediately and continues until superceded.

This policy was developed over the past year and a half beginning with the appointment of the allocation committee, a committee comprised of two members each from the Sea Grant Association, Sea Grant Review Panel and the National Sea Grant Office. During this time, the policy evolved based on considerable discussion with and input from the members of these three groups. In addition, the allocation of funds issue was discussed at length by Congress during the 2002 Sea Grant reauthorization hearings and these discussions were reflected in Sea Grant's 2002 legislation.

The intention of this new policy is to

- 1) encourage a high level of innovation, educational and scientific quality, and program impact;
- 2) bring the Sea Grant network to a consistent level of excellence nationwide in accordance with its legislative mandate and in support of NOAA's mission priorities;
- 3) provide a context for the distribution of funds so as to enable Sea Grant to exert national leadership to promote the wise use and conservation of coastal and marine resources.

My thanks and appreciation to members of the Sea Grant Association, the National Review Panel and the National Office for their collective contributions to the final product. I am confident that we have produced a transparent, practical and workable set of policy guidelines that will enhance our effectiveness as an organization.

Attachment

cc: L. Koch

**National Sea Grant College Program
Policy for the Allocation of Funds, FY2003 and Beyond**

I. Background

The National Sea Grant College Program Act of 1966 provided little guidance for the distribution of Sea Grant funds. The Act gave the National Science Foundation, the agency assigned to administer the National Sea Grant College Program, broad latitude regarding the distribution of funds with only one requirement, that "no state should receive more than 15% of total appropriated funds." Absent legislative guidance, the NSF, and in later years NOAA, applied peer review and open competition principles to establish the present network of Sea Grant institutions and colleges. Grant allocations among the states, then, represent the evolution of a series of complex decisions spanning a 32-year period, which have resulted in the current distribution of funds among Sea Grant programs.

During the late 1990's, major management changes were introduced primarily in response to a 1994 NRC study of the program that called for a more decentralized organizational structure and greater focus on performance. The concept of "core funds," consisting of "base funds" plus a performance-based "merit funds" component, was established (National Sea Grant Office {NSGO} policy memorandum, "Allocations for FY 1998 and Beyond."). Base funds provide a stable level of support (minimum of \$800,000) around which individual programs can plan and develop. During the 4-year period 1998-2001, base funding levels were increased as appropriations increased. Merit funds reward local program performance based on rigorous evaluations every four years. Approximately 50% of the federal funds (excluding program enhancement awards and national strategic investments {NSIs}) allocated to program core funding must be allocated to peer reviewed, competitive research and to graduate/undergraduate education proposals. Competitions are open to all eligible institutions in a program's state. The 1998 Plan also established a system of national competitions open to all programs in which peer reviewed grants are awarded on a 2-3 year basis to the highest rated projects. All aforementioned changes - stable base funds, merit reviews, and national competitions - were added to the Sea Grant Act of 1998.

II. Goals and Objectives

Consistent with the intent of Congress as set forth in the National Sea Grant Act of 1998 (33USC1121), the NSGO policy memorandum entitled "Allocations for FY 1998 and Beyond," the report of the Sea Grant Allocation Committee of March, 2002, and the National Sea Grant College Act Amendments of 2002 (P. L. 107-299), the purpose of this section is to establish goals and objectives for the distribution of funds in the National Sea Grant College Program for FY 2003 and beyond.

These are articulated as follows:

A. Goals:

- 1) To encourage a high level of innovation, educational and scientific quality, and program impact.
- 2) To bring the Sea Grant network to a consistent level of excellence nationwide in accordance with its legislative mandate and in support of NOAA's mission priorities.
- 3) To provide a context for the distribution of funds so as to enable Sea Grant to exert national leadership to promote the wise use and conservation of coastal and marine resources.

B. Objectives:

- 1) To provide a flexible, equitable and open allocation plan in support of program goals.
- 2) To provide a stable, national infrastructure of university based programs that can effectively and efficiently promote NOAA Sea Grant's mission subject to regular review and continued satisfactory performance.
- 3) To provide a rationale and procedures for the distribution of funds in Sea Grant that promote performance, healthy competition and partnerships.
- 4) To provide a mechanism for the establishment of new programs in eligible states not currently being served.

III. Operational Elements

Introduction:

The purpose of this section is to articulate the priorities and operational elements for the distribution of funds in the National Sea Grant College Program for FY 2003 and beyond. As such, these elements represent NSGO policy for the distribution of funds in Sea Grant to become effective upon passage of the FY2003 appropriation bill and continue indefinitely until superceded or revised. These policy elements follow from the goals and objectives set forth in Section II of this document and the references cited therein, particularly Congressional guidelines and the Sea Grant Allocation Committee Report of 2002.

Legislative background:

The National Sea Grant Act of 1998 (33 USC 1121) provides guidance for the distribution of funds authorized under the Act by encouraging a stable base of funding, merit review, new program development, and promotion of competition. The National Sea Grant College Program Act Amendments of 2002 (P. L. 107-299) states that in any fiscal year where appropriations exceed amounts appropriated for the fiscal year 2003, the excess amounts be distributed to any combination of the following:

- "(1) sea grant programs, according to their rating under section 204(d) (3) (A);
- "(2) national strategic investments authorized under section 204(b) (4);
- "(3) a college, university, institution, association or alliance for activities that are necessary for it to be designated a sea grant college or institute;
- "(4) a sea grant college or sea grant institute designated after the date of enactment of the National Sea Grant College Program Act Amendments of 2002 but not yet evaluated under section 204(d) (3) (A)."

Plan elements:

For purposes of this policy, funds appropriated for Sea Grant in FY 2003 are \$62.41 million. For appropriated amounts in excess of FY 2003 levels in future years, the excess of funds available will be distributed on the basis of merit and/or competition. The allocation plan contains four elements: Program Core Distributions, National Competitions, New Program Provisions, and Special Provisions.

A) Program Core Distributions: Core distributions are funds granted to individual Sea Grant institutional programs and generally consist of three funding components: base, merit and specific program development awards. The base component represents NOAA's investment in local infrastructure and directly addresses stability of funding required by the Sea Grant Act. Base funding is awarded with the expectation of continued long term support as long as performance so warrants. Programs may otherwise invest core funds so as to maintain a balanced program in accordance with the Sea Grant Act and NOAA mission objectives.

1. Base funding is a target amount determined early in a fiscal year for NOAA omnibus proposal submissions. The base funding year for calculating a program's base funding amount is equal to the FY 2003 level, which supercedes FY 1995 as the base year. A program's base funding level, then, is the FY 2003 amount plus any subsequent additions. It is expected that as an operating guideline, not less than 45% or more than 65% (ca. 50%), of base plus merit funding (federal portion) will be distributed for research and education projects awarded by an open, peer-review competitive process in accordance with current Sea Grant policy for such competitions. Funds originating from program enhancement awards and National Strategic Investments are excluded from this operating guideline.

2. Program base minimum is a fixed amount based on an assessment of infrastructural resources needed by a Sea Grant Program, consistent with total resources appropriated, in order to operate an effective, balanced program of research, education and outreach. The 1998 Plan acknowledges that need, the Sea Grant Act calls for encouraging new programs and strengthening the network and the recent Allocation Committee Report considered this question. Based on these considerations and the recommendations in the recent Allocation Committee's report, and subject to regular review and satisfactory performance, a Program minimum amount is set for Sea Grant College and Institutional Programs at \$1.2 million in federal funds. The amount is based on FY 2002 cost estimates and appropriations. With matching funds, a minimum investment, then, of \$1.8 million in infrastructure is provided for a Sea Grant College. This equates to the FY 2002 median level of base funding for all programs. Such an amount allows, at steady state, for approximately 8 modest sized research projects per year, 4-5 extension specialists and a budget for management, education and communications functions. Furthermore, there is maintained a capacity base from which

to generate additional resources and compete in national competitions.

Sea Grant College or Institutional Programs, whose base funding levels are less than the \$1.2 million minimum, qualify for base minimum adjustments. The Director, NSGO, may from time to time, designate funds for base minimum distributions. Programs eligible for the distribution will receive adjustments in that year based on their merit grades. Merit grades are those received from final performance evaluations. Programs remain eligible until the base funding reaches the base minimum amount.

(NOTE: The program minimum defined here is not to be construed as an adequate or sufficient resource base in relation to a state's issues, opportunities or capabilities. Given budget realities, it represents a compromise between providing an enabling infrastructure across eligible states and more substantially funding fewer programs.)

3. Merit funds are amounts determined according to performance in merit based reviews among Sea Grant Colleges and Institutions. The amounts distributed arise from merit grade categories assigned in performance evaluations and the total dollars available for distribution and as specified in current performance review policy. A program's merit-based distribution may vary from year to year due to the rolling four-year schedule of merit ratings. Consequently, the merit funds received by a program in a given year may change (or disappear) as a function of the evaluation process. It is expected that the overall merit funding pool will minimally be maintained at the FY 2002 level.
4. Program Development Awards are grants made as a result of peer reviewed, national competitions open only to Sea Grant colleges and institutions and are for the purpose of enhancing specific programmatic activities (e. g., community development, fisheries extension, regional activities), not individual investigators. These funds are designated as part of a program's core funds for a finite time period (generally 4-5 yrs.) and are subject to the terms and conditions specified in the competition.

B. National Competitions: The Sea Grant Act states that

the Director shall allocate funding among Sea Grant colleges and institutions so as to promote healthy competition among such institutions (Sec.1123(d)(3)B(i)). Allocations to individual programs may be made under this provision on the basis of open peer reviewed competition to eligible entities as defined by law. The circumstances and duration of such awards are to be determined by the goals and criteria governing that particular competition. Such competitions would normally be open to proposals from all programs, but competitions may also be restricted to regional projects in certain instances.

National competitions are subject to the rules and policies in effect for RFP announcement, proposal submission and peer review for Sea Grant awards. Funding for such competitions may arise from Sea Grant appropriations and/or other federal sources distributed by the NSGO in accordance with provisions of the Sea Grant Act.

National competitions may originate from a number of funding sources, primarily, from Congress, NOAA and/or other agencies and Sea Grant Act appropriations.

C) New Program Provisions: The Sea Grant Act contains the specific objective in the statement of purpose "to extend and strengthen the National Sea Grant Program." In order to extend the program so as to serve all eligible states as defined in the Act, the following elements provide for the funding of new programs in accordance with the guidelines developed in previous sections of this plan.

The Director, NSGO, may provide new funds from Sea Grant Act appropriations for investments in projects and Coherent Area Programs in eligible states in which no program has yet attained institutional status. Once a program has attained full institutional status, it no longer qualifies for distributions under the new program provision. Such programs may then qualify for base minimum distributions.

All proposals submitted under the New Program Provision will be subject to Sea Grant review and merit criteria. Proposals for changes in status for new programs are subject to relevant merit based criteria and procedures. Changes in status may change a program's eligibility for distributions under this plan. However, such changes in and of themselves constitute no obligation on the part of NOAA for additional funding or other exceptions from the guidelines set forth herein.

D) Special Provisions: There are special case

distributions that are provided for under the Act or represent situations requiring clarification. These include pass through grants, special grants, and unobligated funds.

1. Pass through grants/and contracts are funds awarded by the NSGO to Sea Grant Programs arising from federal funds not appropriated specifically for the support of the Sea Grant Act. Provisions of the Sea Grant Act provide this authority. Such funds are subject to the terms and conditions of the originating agency and to current policies of the National Sea Grant College Program. Pass-through funds do not require non-federal matching funds unless specified by the originating agency.
2. National infrastructure support grants are awards made under the provision of the Sea Grant Act and are generally made at the discretion of the Director, NSGO for rapid response to emerging issues or for proposals to enhance network capability. Such grants without matching funds may not exceed 1% of the total appropriated funds in that year. Proposals for special grants are subject to normal review processes in accordance with NSGO guidelines.
3. Unobligated funds are those arising from previous years' deobligations. These are returns that originate from a variety of sources and normally are less than 1% of current appropriations. Such funds become available for distribution for Sea Grant and may be used at the discretion of the Director, NSGO to augment one or more funding elements. These funds are available for distribution only in the year they occur (i.e., on a one time basis) and unless otherwise excepted, are subject to the 1/3 matching requirement of Section 1124 of the Sea Grant Act.

E) Other Considerations: This allocation plan is based on the assumption of long term program growth. However, assumptions of constant or growing funding may not be realized in a given year for a variety of reasons or appropriations bills may impose specific uses to new or existing funds. The following guidelines establish a general protocol for such situations:

1. In the event of decreases in funding levels from whatever source (e.g., appropriations, rescissions, mandates) the first priority is the maintenance of network integrity and therefore the maintenance of base funding levels.
2. In the event of significant increases in non-specific appropriations, primary consideration will be given to four areas (not listed in priority order); program base minimum adjustments, new program development, merit pool increases and base increases for all programs through competition up to the amount of the FY 2003 appropriation.
3. Increases in core funding in FY 2003 and beyond, may arise from several mechanisms:
 - a) The Director, NSGO, may from time to time both increase the merit pool and/or enhance the overall base funding allocation by one time merit based distributions up to the FY 2003 appropriation.
 - b) Program development awards from competitions to enhance programmatic activities either generally or in specific areas will be added to a program's funding base for the duration of that award (usually 4-5 years).
4. Decreases in a program's core funding may also arise from:
 - a) Reduction in merit distribution as a consequence of changes in performance grades.
 - b) Reductions in base grant awards stemming from unsatisfactory performance or for cause in relation to current Agency and Federal regulations and guidelines.
 - c) Reductions as a result of significant reductions in appropriations.
5. It is NSGO policy to establish and fund only one institutional or college program in a state as defined in the Sea Grant Act, except for those Programs that attained institutional status prior to FY 2002. Once institutional status is attained in a state, that program assumes the duties and responsibilities of a Sea Grant Program for that state.

IV. New Program Policy

It is NSGO policy to accommodate the establishment and growth of new Sea Grant programs in the remaining states and territories that are eligible for Sea Grant College designation. The purpose here is to provide guidance on procedures and designation of resources for new programs in order to facilitate the orderly development of new Sea Grant programs.

Sequential Steps to Sea Grant College Status - Establishing Sea Grant College Program status is a sequential process that occurs over a period of time, typically a decade or more. To achieve Sea Grant College status, three steps must occur: Coherent Area Program, Institutional Program and Sea Grant College Program. These steps are described more fully as follows:

General - Eligibility, qualifications and responsibilities for Sea Grant Programs are set forth in the Sea Grant Act and the Federal Register (V44:244). A Sea Grant Program is a university-based program usually administered by one institutional entity within a coastal or Great Lakes state.

Any eligible institution in the remaining states and territories that are eligible for Sea Grant College designation may apply to NOAA's National Sea Grant Office (NSGO) for a project grant. A project grant is simply a proposal from an eligible institution to initiate a Sea Grant programmatic activity for a given time period. This is generally the first step in seeking Sea Grant Program status.

Institutional entities may subsequently petition the NSGO for changes in program status in sequential order as defined below.

A) Coherent Area Program - The NSGO may request proposals from eligible institutions for the purpose of establishing Coherent Area Programs. An institutional entity may apply to the NSGO to become a Coherent Area Program in order to conduct Sea Grant activities limited in geographic area and/or scope. Grants are made to Coherent Area Programs with the expectation of renewal if the quality and relevance of the program is maintained. The NSGO will only accept Coherent Area Program proposals from eligible entities in states without existing Sea Grant Institutions or Colleges. All Coherent Area Program proposals are subject to Sea Grant review procedures and must be satisfactorily evaluated against Sea Grant project evaluation criteria. An institution must be designated a Coherent Area Program for at least two to three years before being eligible to apply for Sea Grant institutional status.

B) Institutional Program - The NSGO may competitively award Sea Grant Institutional Program status to one or a consortium of eligible entities having Coherent Area Programs. Criteria to be met are similar to that for a Sea Grant College and all eligible institutions may apply. Proposals for Institutional Program status will be referred to the Director of the NSGO, who will convene a panel of experts for the purpose of reviewing proposals against institutional program review criteria as defined in the Federal Register (V42:70). The experts' panel will make a recommendation to the Director regarding Institutional Program designation. The Director will make the final decision on Institutional Program designation. The NSGO will designate only one Institutional Program per state.

C) Sea Grant College - This is Sea Grant's highest program category. Sea Grant Colleges have broad responsibilities for state, regional and national activities and engage all of the institutions of higher learning in a state. Only Institutional Programs are eligible, after an appropriate period of time (at least two to three years) to become Sea Grant Colleges. Designation is made on the basis of merit and a determination by the Secretary of Commerce that such a designation meets the qualification criteria as set forth in the Federal Register (CFR, 1997 Ch. IX: Part 918).

New Program Implementation Plan - Beginning in FY 2003, the NSGO will announce a process for eligible institutional entities to submit Coherent Area Program and Institutional Program proposals. Since the remaining states and territories eligible for Sea Grant College designation are limited in number, the NSGO plans to make this opportunity available primarily with new funds.

V. Distribution of Funds

This section addresses the issue of the distribution of funds to the specific categories. The Sea Grant Act is definitive in fixing responsibility for the distribution of funds with the Secretary of Commerce and Director, NSGO. Funds are to be distributed in support of the purposes of the Act, but the Act provides considerable latitude within the merit and competition framework on the distribution of funds to various categories. Section II of this document provides specific goals and objectives for the distribution of funds. Based on those precepts articulated in Section II, the following guidelines will apply to the distribution of funds to categories. Note these are general guidelines and circumstance and/or future appropriations bill language may require exceptions for these guidelines. The guidelines are as follows:

A) Allocation policy will be reviewed by the NSGO in the year preceding the last year of a reauthorization sequence. For instance, these guidelines would be reviewed in FY 2007. Both the National Review Panel and Sea Grant Colleges and Institutions would be given the opportunity to participate in such a review.

B) Funding amounts up to the FY 2003 appropriated amount may be used in any category including base funding.

C) Sea Grant appropriations in excess of the FY 2003 amounts may only be allocated to programs through merit or competitive mechanisms and not to base funding, with the exception of new Sea Grant Colleges or Institutions.

D) Designation of appropriated funds within these guidelines will be made by the Director, NSGO as soon as possible after an appropriation bill is passed for the fiscal year.

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Peter Betzer, CEO, St. Petersburg Downtown Partnership

*Biography & Abstract: The Critical Role of Partnerships in the Creation of St. Petersburg's
Major Marine Research Center*





Dr. Peter R. Betzer

President, St. Petersburg Downtown Partnership

DR. PETER R. BETZER currently serves as the President of the **St. Petersburg Downtown Partnership**, a group that has been pivotal to the emergence of St. Petersburg, Florida as an internationally-prominent center for marine research. He and his business colleagues are currently focused on expanding the cluster of technological businesses that are associated with St. Petersburg's extensive marine research complex. Prior to joining the partnership in 2008, Dr. Betzer served as Dean and Professor of The University of South Florida's College of Marine Science. In fact, he joined USF's marine science faculty in 1971 and spent 37 years in this academic setting. Dr. Betzer received a B.A. in geology from Lawrence College (1964) and in 1971 was awarded a Ph.D. in chemical oceanography from the University of Rhode Island's Graduate School of Oceanography. His research interests were in the realm of geochemistry, particularly the role of organisms in modifying the chemistry of seawater, pollutant transfer in the oceans, and chemical tracers. Dr. Betzer is the author of over 60 scientific publications in journals and books and in 1985 was a co-recipient of the **Distinguished Authorship Award** from the National Oceanic and Atmospheric Administration. Dr. Betzer has presented invited lectures at the Shirshov Institute in the Soviet Union (1979) and in May 1987 was one of two plenary speakers at the Australian Marine Science meetings. In 1990 and again in 1993 Dr. Betzer presented invited lectures at Oxford University in Oxford, England. In 1996 he was invited by the Chinese government to visit China and provide a distinguished lecture at their Ocean University in Qingdao. In 1997 he was

appointed to a five-year term on the Scientific Steering Committee for Autosub by Britain's Natural Environment Research Council. Dr. Betzer was appointed to the **Ocean Sciences Advisory Panel** for The National Science Foundation (NSF) in 1986-89 and again in 1995-99. In 1990 he was elected to The University National Oceanographic Laboratory System (UNOLS) Council for a three-year term and in 1992 and again in 1994 he was elected **Vice-Chair of UNOLS**. In 2005 Dr. Betzer was appointed to the **Ocean Research and Resource Advisory Panel** (ORRAP) a 15 member group that formulates recommendations to federal agencies that are involved in ocean research.

Dr. Betzer has participated in numerous oceanographic expeditions – almost three years of research at sea - including work in the North Atlantic Ocean, Caribbean Sea, Gulf of Mexico and the North Pacific Ocean. In 1986 and 1987 he served as the chief scientist for a five-university project in the North Pacific Ocean that studied the fluxes and interactions of atmospheric dust in the upper ocean. In 1990 he was chief scientist on a cruise of R/V ENDEAVOR to the Sargasso Sea which was conducted as part of the Global Ocean Flux Experiment. The Experiments in the Pacific (1986/87) and in the Sargasso Sea (1990) were supported with multi-year grants from the National Science Foundation.

In 1983 Dr. Betzer was appointed chair of USF's Department of Marine Science and has overseen the creation of a major marine science complex that includes ten agencies employing more than 1500 people. Legislative initiatives have provided state support for; 1) a new 140,000 sq. ft. joint research facility that is shared with Florida's Fish and Wildlife Conservation Commission; 2) ten new faculty positions; 3) the creation of a **Center for Ocean Technology** with a staff of 14 professional engineers involved in sensor development; 4) Construction of a Coastal Research Center (55,000 sq. ft.) for the United States Geological Survey which has expanded to over 100 personnel; 5) seven new technical positions with equipment and support monies for the Coastal Ocean Monitoring and Prediction System (COMPS) that is deployed along the extensive West Florida Shelf and; 6) eight permanent engineering positions for an advanced technology initiative in Microelectromechanical systems (MEMS) that is focused on sensor development. St. Petersburg's business and civic leaders have expanded upon the work cited above to help build a series of **endowments** which include: 1) seventeen fellowships for graduate students; 2) an Eminent Scholars Lecture Series; 3) an endowed program for post doctoral fellowships; 4) an endowment (>\$1,000,000) which supports graduate student mentors integral to The Oceanography Camp for Girls – a summer program to inspire eighth graders to consider scientific careers; and 5) an endowment that supports outstanding minority graduate students – Bridge to the Doctorate – that has also attracted long-term support from the **A. P. Sloan Foundation**. Most recently (November 2006) **SRI International** established a formal linkage with USF's College of Marine Science and built a new research facility (38,000 sq. ft.) that is focused on developing new sensors for oceanographic research. The expansion of SRI in St. Petersburg was supported by almost

40 million dollars from state and local sources. The St. Petersburg Downtown Partnership also helped attract another high profile technology group, **Draper Laboratory**, that opened a new nanotechnology research facility (October 2009) in St. Petersburg which will provide an important interface with The University of South Florida's Colleges of Marine Science, Engineering and Medicine, SRI St. Petersburg and Johns Hopkins University's new medical center in St. Petersburg.

Dr. Betzer has received three important civic awards: 1) in 1991 he was one of three people who received a Community Betterment Award from the St. Petersburg Chamber of Commerce; 2) in 1994 he was the single recipient of the St. Petersburg Bar Association's Liberty Bell Award; and 3) in 2000 he was one of two people who received a Community Service Award from Leadership St. Pete Alumni Association. In addition, in 2009 the University of Rhode Island's Graduate School of Oceanography honored Betzer and during a formal ceremony recognized him as one of their Distinguished Graduates. Most recently, June of 2014, Lawrence University presented The Lucia Briggs Distinguished Achievement Award to Betzer.

ABSTRACT – The Critical Role of Partnerships in the Creation of St. Petersburg’s Major Marine Research Center

The transformation of a downtown industrial backwater into the largest marine research complex in the southeastern United States is a testimonial to a multi-decadal series of effective partnerships. The critical collaborators included: 1) administrators from the University of South Florida; 2) business leaders and business groups in St. Petersburg; 3) the mayors and city councils of St. Petersburg; 4) interested private citizens; 5) state legislators; 6) federal legislators and; 7) a host of donors who built multiple endowments in support of marine research. Given the embryonic state of the marine operations that started in 1966, the daunting challenge was to actually convince prospective supporters that St. Petersburg’s Bayboro Harbor, occasionally referred to as the “arm pit of the city”, could actually be transformed into a major asset.

The presentation will consider the evolution of St. Petersburg’s marine research complex and the particular ways that Partnerships propelled the marine sciences into prominence.

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Tammy Newcomer Johnson and Elizabeth Bevan, National Sea Grant Knauss Fellows

Biographies & Presentation: Focus Area Updates





Elizabeth Bevan is the Coastal Communities Specialist for the National Sea Grant Office. She is a recipient of the 2014 John A. Knauss Marine Policy Fellowship.

Elizabeth is a Ph.D. student at the University of Alabama at Birmingham, evaluating the impact of global climate change on reproduction in the endangered Kemp's ridley sea turtle. Elizabeth received her B.S. in marine biology from Florida International University, her M.S. in biology at the University of Alabama at Birmingham. Prior to embarking upon her PhD studies, Elizabeth originally "wet her feet" through a variety of marine activities in South Florida, including marine educational outreach, biological monitoring, and sea turtle research.



Tammy Newcomer Johnson is the Natural Resource Specialist for the National Sea Grant Office. She is a recipient of the 2014 John A. Knauss Marine Policy Fellowship.

Tammy is a Ph.D. student in marine estuarine and environmental science at the University of Maryland and has studied the biogeochemistry and ecological impacts of urbanization and nitrogen cycling in the Chesapeake Bay watershed. Her graduate research focused on examining the influence of stream restoration and stormwater management on nitrogen pollution. Tammy recently spent 2 years as a NSF G6-12 Fellow working with teachers and students to design and test out hands-on environmental science lessons on water, carbon, biodiversity, and citizenship.



Focus Area Updates

*Report to the
National Sea Grant Advisory Board
Sea Grant Week Meeting
September 8, 2014*



Elizabeth
Bevan



Tammy
Newcomer Johnson



Focus Areas 2009-2013



Healthy Coastal Ecosystems



Hazard Resilient
Coastal Communities

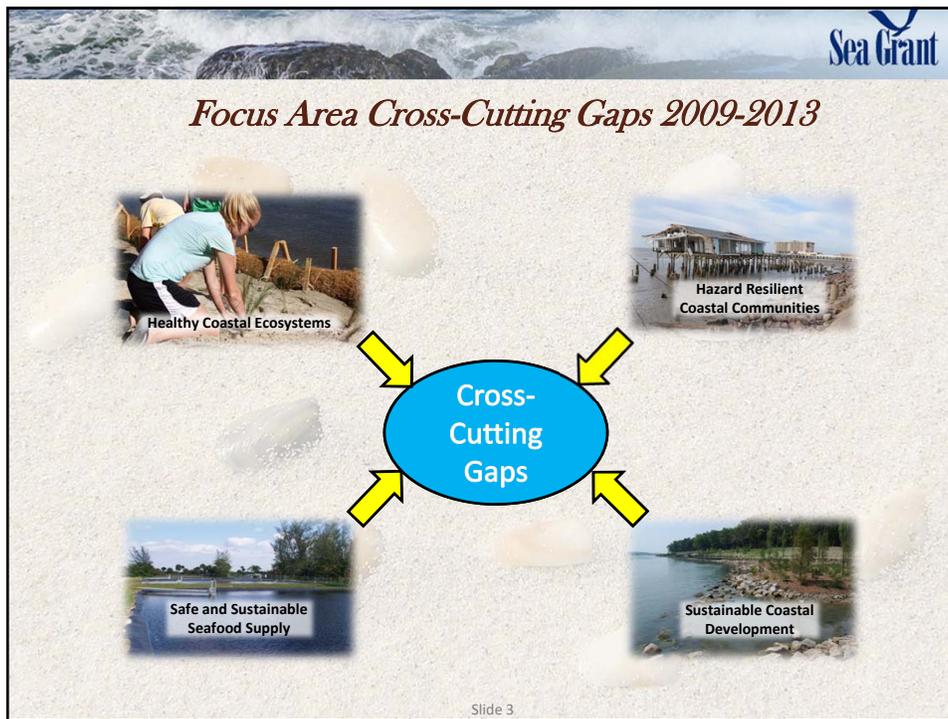


Safe and Sustainable
Seafood Supply



Sustainable Coastal
Development

Slide 2



-
- Sea Grant**
- ### *Focus Area Cross-Cutting Gaps 2009-2013*
- | | |
|--|---|
| <p><u>Cross-Cutting Gaps</u></p> <ul style="list-style-type: none"> ➢ Education ➢ Climate Change ➢ Social Science ➢ Partnerships <p><u>Focus-Specific Gaps</u></p> <ul style="list-style-type: none"> ➢ SCD <ul style="list-style-type: none"> ➢ Working with under-served communities ➢ HRCC <ul style="list-style-type: none"> ➢ Restoration of natural ecosystems and resources ➢ HCE <ul style="list-style-type: none"> ➢ Pre/post restoration monitoring ➢ Detection & analysis of invasive species ➢ Research on harmful algal blooms (HABs) ➢ Baseline habitat research ➢ SSSS <ul style="list-style-type: none"> ➢ Catch shares ➢ Hatchery production issues ➢ Ecosystems based management & ecosystems evaluation ➢ Coastal marine spatial planning | <p><u>Emerging Themes</u></p> <ul style="list-style-type: none"> ➢ SCD <ul style="list-style-type: none"> ➢ Integrating green infrastructure ➢ Fostering policy & regulatory changes ➢ Successful partnerships ➢ HRCC <ul style="list-style-type: none"> ➢ Regional collaborations ➢ Hurricane sandy ➢ Beach hazards risk communication ➢ HCE <ul style="list-style-type: none"> ➢ Blue carbon ➢ Water resources ➢ Integrating natural & social sciences ➢ Sustainability outreach & education ➢ SSSS <ul style="list-style-type: none"> ➢ The graying of the fleet ➢ Environmental & pollutant monitoring |
|--|---|
- Slide 4

Healthy Coastal Ecosystems

The United States manages millions of square miles of coastal territories that contain diverse and productive ecosystems. These ecosystems provide the means for the fish and support a variety of recreational, commercial and subsistence activities. More than four million acres of coastal wetlands, seagrass and other ecosystems are currently being lost to the sea. NOAA and its partners are working to help restore and protect these ecosystems. NOAA's research and education programs provide resources for over half a century to help coastal communities and individuals understand the science of coastal ecosystems and how to protect them. For more information, visit www.noaa.gov.

Sustainable Coastal Development

Coastal communities in the United States provide vital economic, social and recreational opportunities for millions of Americans. By 2050, the population of coastal watersheds is projected to increase by 45%. This population increase has resulted in greater vulnerability of coastal communities and ecosystems to natural and technological hazards. The communities are more people and a higher white balancing demands on coastal resources, our nation must develop sustainable practices. Institutional capacities and management approaches to address these challenges. NOAA's research and education programs provide resources for over half a century to help coastal communities and individuals understand the science of coastal ecosystems and how to protect them. For more information, visit www.noaa.gov.

Hazard Resilience in Coastal Communities

We meet our increased number and intensity of coastal storms, the ongoing threat of sea level rise, and other natural and human-induced and growing more people and property along the nation's coasts, with major implications for human safety and the economic and environmental health of coastal areas. Sea Grant supports a range of research, training, and technical assistance activities, using models of coastal communities under stress from sea level rise. We encourage local citizens, decision makers, and stakeholders to be part of the solution. For more information, visit www.noaa.gov.

Safe and Sustainable Seafood Supply

The nation has witnessed the decline of many of its major fisheries while seafood consumption has increased and continues to be projected to rise over the next 30 years. To bridge the gap between seafood demand and domestic harvest, the United States supports the growth of aquaculture through research, training, and education. NOAA's research and education programs provide resources for over half a century to help coastal communities and individuals understand the science of coastal ecosystems and how to protect them. For more information, visit www.noaa.gov.

Research to Application

NOAA's research and education programs provide resources for over half a century to help coastal communities and individuals understand the science of coastal ecosystems and how to protect them. For more information, visit www.noaa.gov.

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SCIENCE SERVING AMERICA'S COASTS
 NOAA National Sea Grant College Program
 1315 East-West Highway, Silver Spring, MD 20910
www.noaa.gov
 1-800-752-8777

NSGO Activities – Moving the Sea Grant Network Forward

- Hazard Resilient Coastal Communities
 - New Strategic Partnerships
 - Within NOAA
 - Other Federal Agencies
 - Non-Federal Partners

Enhanced building codes allowed one house to remain standing on Bolivar Peninsula, TX after Hurricane Ike. Photo Credit: NOAA



NSGO Activities – Moving the Sea Grant Network Forward

- Sustainable Coastal Development
 - NOAA Sentinel Site Cooperative Program
 - NOAA’s Natural Infrastructure Strategy
 - Support Existing Networks
 - SCD Network
 - Climate Network



Credit: Gene Clark, Wisconsin Sea Grant



NSGO Activities – Moving the Sea Grant Network Forward

Valdez, Alaska. Credit: Alaska Sea Grant

- Healthy Coastal Ecosystem
 - Aquatic Nuisance Species
 - Emerging Contaminants (e.g., PPCPs)
 - NOAA Ocean Acidification Program



Valdez, Alaska. Credit: Alaska Sea Grant



NSGO Activities – Moving the Sea Grant Network Forward

- Sustainable Fisheries and Aquaculture
 - Support existing networks:
 - Fisheries Extension Network; Sustainable Marine Fisheries CoP; Marine Aquaculture CoP
 - Enhance NMFS partnership
 - Barotrauma
 - NMFS-SG Exchange Program
 - Feedback for NMFS issues:
 - Recreational Fisheries Policy
 - Aquaculture Policy
 - Bait and Tackle Survey
 - Aquaculture



Credit: Mike Sullivan, Skidaway Institute of Oceanography (SKIO)



NSGO Activities – Moving the Sea Grant Network Forward

Valdez, Alaska. Credit: Alaska Sea Grant

- Environmental Literacy and Workforce Development
 - Sea Grant Education Network
 - Citizen Science



Credit: New Hampshire Sea Grant



Next Steps...

- Strategic Initiatives to move the Network forward!

Planning for Future Initiatives
(handout at meeting)



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Chris Hayes, Social Science Coordinator and Program Officer, National Sea Grant College Program

Biography & Presentation: Social Science





Chris Hayes is the Social Science Coordinator, Policy and Evaluation Coordinator and is the Program Officer for the Maine and New Hampshire Sea Grant programs.

Chris has a B.S. in Ecology from the University of Georgia and an M.S. in Fisheries Sciences from Virginia Tech. As an undergraduate, Chris spent a year visiting five diverse countries through the International Honors Program: Global Ecology Program. Funded through the National Marine Fisheries Service (NMFS), he published assessments of three species of hammerhead shark populations in his Master's thesis. He was awarded the Knauss Marine Policy Fellowship in 2008 and worked in the NMFS Partnerships and Communications office. After spending a few years managing databases with the Atlantic Coastal Cooperative Statistics Program, Chris joined the National Sea Grant Office and led development of the PIER database. In 2013, he began coordinating the social science efforts of the network and serving as social science liaison to NOAA.

Advancing Social Science in Sea Grant

Sea Grant Week 2014

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

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



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

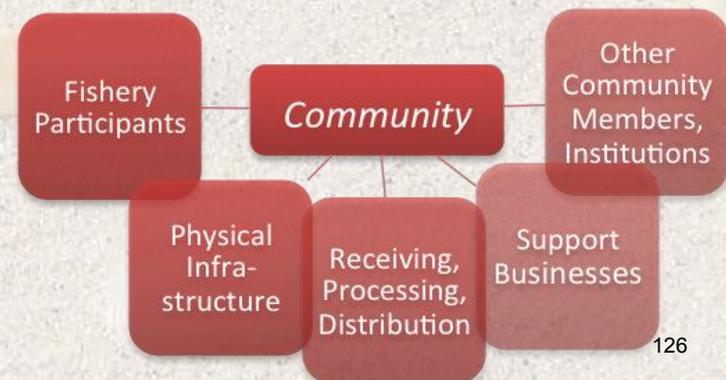
- Archival research
- Ethnography

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



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
Research: (Washington co-PI, University of Washington) and Hannah Gosnell (Oregon co-PI, Oregon State University)

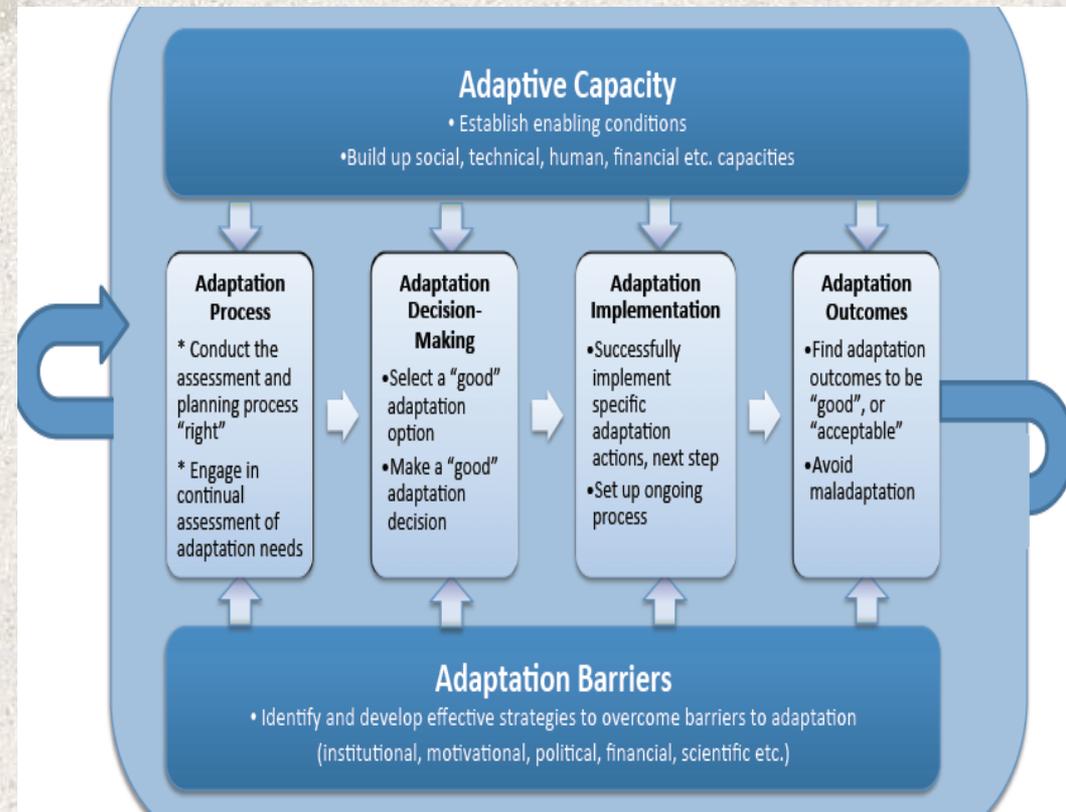
Develop framework and indicators for successful adaptation to climate change: 1) outcomes (2) processes, 3) governance and social mechanisms.

- 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**



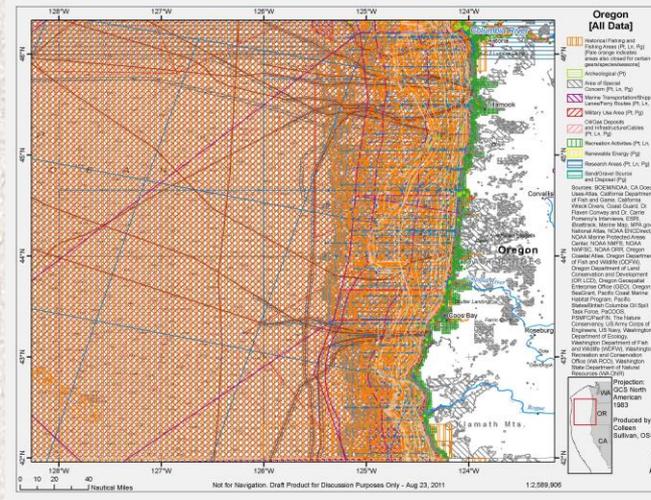
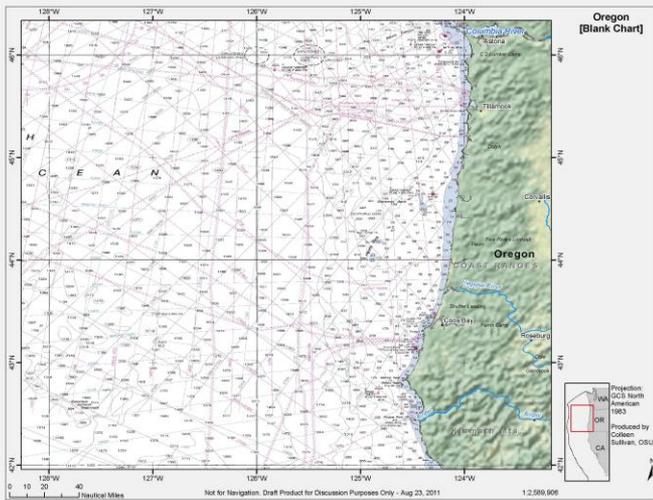
East and West Coast Regions

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.*

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)

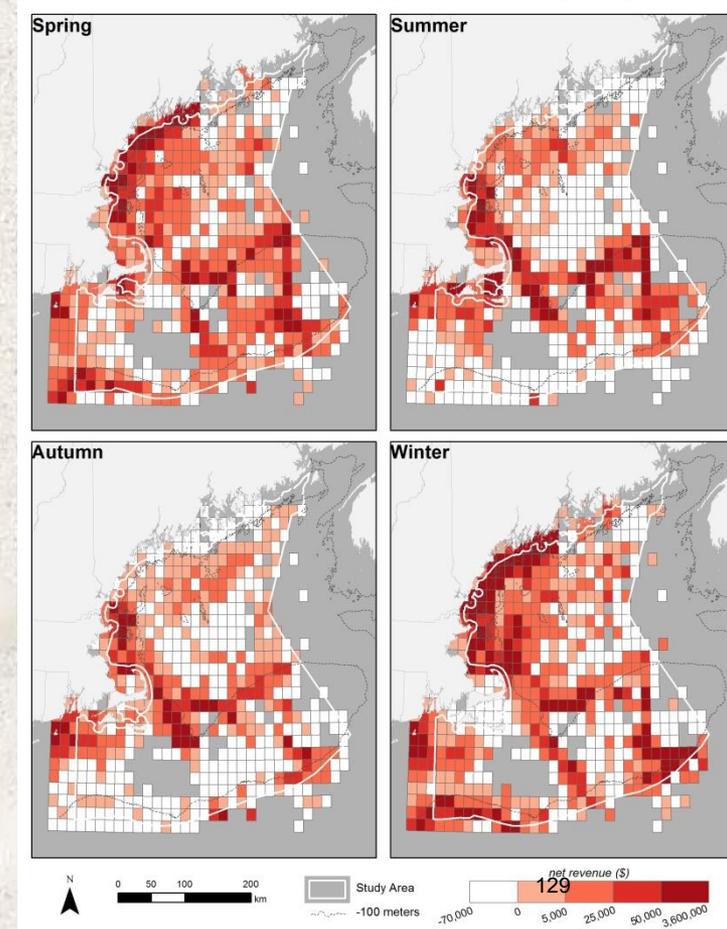
Research

- 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.



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Sami Grimes, Director of Policy and Planning, National Sea Grant College Program

Biography, Site Visit Schedule & 2013 Performance Measures & Metrics





Sami Grimes is the Director of Planning and Evaluation and is the Program Officer for the Connecticut and Rhode Island Sea Grant programs.

Sami received her Bachelor of Arts in philosophy from John Carroll University, and her Master of Arts degree in philosophy from Texas A&M University. In 2008, she received planning and evaluation certification from the Performance Institute. Prior to joining the NOAA's National Sea Grant Office in 2003, she served as an educator for the Ohio school systems. In her free time, she enjoys spending time with her family, hiking, reading and knitting.

2014-2015 Sea Grant Site Review Schedule

Program	Site Visit Dates	Chair	Co-Chair	Sea Grant Director
North Carolina	Sept 16-17, 2014	Elizabeth Ban	Rollie Schmitt	Sylvain De Guise
Oregon	Sept 23-24, 2014	Joshua Brown	Amber Mace	Brian Miller
Maine	Oct 7-8, 2014	Chris Hayes	Dick Vortmann	Jeff Gunderson
MIT (Mass.)	Oct 15-16, 2014	Mike Liffmann	Nancy Rabalais	Gordon Grau
Pennsylvania	Oct 27-29, 2014	Jon Eigen	Dick West	Jon Pennock
Michigan	Oct 28-29, 2014	Mike Liffmann	Harry Simmons	Chrys Chryssostomidis
Rhode Island	Nov 5-6, 2014	Sami Grimes	Bill Stubblefield	Paula Cullenberg
Ohio	Nov 13-14, 2014	Jon Eigen	Patty Birkholz	Pete Rowe
Hawaii	Dec 3-4, 2014	Mike Liffmann	Frank Beal	Shelby Walker
Maryland	Jan 21-22, 2015	Dorn Carlson	Rosanne Fortner	Karl Havens
Minnesota	Jan 27-28, 2015	Jon Eigen	Bill Stubblefield	Robert Twilley
Florida	February 3-4, 2015	Gene Kim	Dick West	Jim Hurley
Guam	February 3-4, 2015	Mike Liffmann	Rollie Schmitt	Troy Hartley
Law Center	February 10-11, 2015	Joshua Brown	Harry Simmons	Jeff Reutter
Puerto Rico	Feb 18-19, 2015	Kola Garber	Mike Orbach	LaDon Swann
Alaska	March 25-26, 2015	Mike Liffmann	Rosanne Fortner	Rick DeVoe
New York	March 31 - April 1, 2015	Jon Eigen	Dick Vortmann	Linda Duguay
Mississippi-Alabama	April 1-2, 2015	Gene Kim	Paulinus Chigbu	Paul Anderson
Connecticut	April 8-9, 2015	Sami Grimes	Frank Beal	Bob Light
WHOI	April 14-15, 2015	Mike Liffmann	Nancy Rabalais	Ruperto Chaparro
Wisconsin	April 21-22, 2015	Dorn Carlson	Patty Birkholz	Susan White
Illinois-Indiana	April 29-30, 2015	Jon Eigen	Mike Orbach	William Wise
New Hampshire	May 6-7, 2015	Chris Hayes	Dale Baker	Nancy Targett
Washington	May 12-13, 2015	Joshua Brown	Rosanne Fortner	Judith McDowell
New Jersey	May 13-14, 2015	Dorn Carlson	Dick Vortmann	Chuck Hopkinson
USC	June 10-11, 2015	Joshua Brown	Rollie Schmitt	Dennis Nixon
Lake Champlain	June 10-11, 2015	Kola Garber	Dick West	Brian Miller
Louisiana	June 16-17, 2015	Gene Kim	Amber Mace	Sylvain De Guise

Delaware	June 17-18, 2015	Dorn Carlson	Nancy Rabalais	Jim Diana
Georgia	July 14-15, 2015	Mike Liffmann	Dale Baker	Fredrika Moser
California	July 21-22, 2015	Joshua Brown	Dick West	LaDon Swann
Texas	July 21-22, 2015	Gene Kim	Rollie Schmitten	Penny Dalton
South Carolina	Sept 1-2, 2015	Elizabeth Ban	Paulinus Chigbu	Jim Eckman
Virginia	Sept 22-23, 2015	Dorn Carlson	Mike Orbach	Pam Plotkin

National Sea Grant College Program

FY2014 Performance Measures and Metrics

As a result of Sea Grant activities, the Nation achieved:

Economic Impacts

- \$450M** In economic impact
- 6,500** Businesses created or sustained
- 17,500** Jobs created or sustained
- 5** Patents



Healthy Coastal

Ecosystems

- 460** Ecosystem-based management (EBM) tools, technologies, and information services developed
- 521** EBM tools used by Sea Grant customers
- 4,000** Resource managers use EBM
- 21,700** Acres of degraded ecosystems restored

Research

- 576** Peer-reviewed publications



Safe and Sustainable

Seafood Supply

- 23,000** Fishers adopt responsible harvesting techniques
- 53,000** Stakeholders modify practices based on increased knowledge of safety, sustainability, and health.
- 1,750** Hazard analysis & critical control points (HACCP) certifications



Hazard Resilience

in Coastal Communities

- 1,050** Trainings to improve resilience
- 300** Communities improved resilience



Sustainable Coastal

Development

- 220** Communities implemented sustainable development practices/policies



Education, Outreach and Extension

- 290,000** Volunteer hours
- 760** Undergraduate students supported
- 910** Graduate students supported
- 8,200** Workshops, trainings, and presentations



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National Sea Grant Advisory Board Biographies



Advisory Board Member Bios

Dale Baker (No picture) **Ithaca, NY**

Dale Baker worked with Sea Grant for over 36 years and served as a Sea Grant Extension Program Leader for 34 years. His major programmatic responsibilities were in the areas of commercial fisheries, ports and harbors, aquaculture and coastal climate change. Mr. Baker retired from Cornell University in January of 2009, but continues to do work for Sea Grant and the Cayuga Lake Watershed Network.



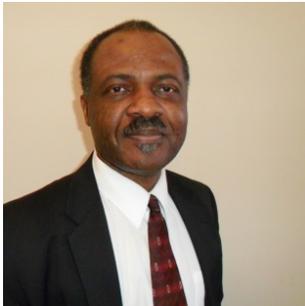
Frank Beal **Chicago, IL**

Frank H. Beal is executive director of Metropolis Strategies, formerly Chicago Metropolis 2020. Beal previously served as president of Ryerson International Inc., an operating unit of the former Inland Steel Industries. Beal was also president and chief executive officer of Ryerson/West; general manager of corporate planning and development for Inland Steel Industries; general manager of purchasing for Inland Steel Company; and COO and general manager of raw materials for Inland Steel Coal Company. Prior to joining Inland Steel Industries, Beal was director of the Illinois Department of Energy and Natural Resources. He also was a special assistant for energy and environmental affairs for Governor James Thompson. Previously, under Governor Richard Ogilvie, Beal served as the state's first deputy director of the Institute for Environmental Quality, which conducts research on energy, natural resources and environmental issues for the state. Beal serves on the board of Business and Professional People for the Public Interest (BPI) and was appointed by Mayor Daley to serve on the board of the Chicago Metropolitan Agency for Planning (CMAP) where he chairs the Regional Tax Policy Committee. As a member of the American Planning Association, he has edited and published several books, articles and research reports on urban affairs and land use planning as well as given numerous speeches nationally on those topics. Beal received his Master's degree in urban planning from the University of Illinois and his bachelor's degree in engineering from Antioch College.



Patricia Birkholz
Saugatuck, MI

Senator Patty Birkholz is director of the Michigan Office of the Great Lakes. Previously, she served as a member of the Michigan State Senate from 2002 to 2010. In the Senate, she represented the 24th District comprising of Allegan, Barry and Eaton Counties. Prior to her terms in the Senate, she represented the 88th District in the Michigan House of Representatives from 1996 to 2002. She was the Allegan County Treasurer from 1992 to 1996. Birkholz began her career in politics as a trustee for Saugatuck Township.



Paulinus Chigbu
Fruitland, MD

Dr. Paulinus Chigbu is the Director of the NOAA Living Marine Resources Cooperative Science Center, Director of the National Science Foundation Center for Research Excellence in Science and Technology: Center for the Study of Coastal Ecosystem Processes and Dynamics in the Mid-Atlantic Region and a professor of marine environmental science at the University of Maryland. Chigbu has been involved in many programs to bring diversity to marine science including projects and partnerships with NOAA, Jackson State, University of Mississippi, Office of Naval Research and the Louis Stokes Alliance for Minority Participation. Dr. Chigbu has been the recipient of a Fulbright scholarship, an Excellence Fellowship from the University of Washington and served as Chair of the Mississippi Academy of Sciences.



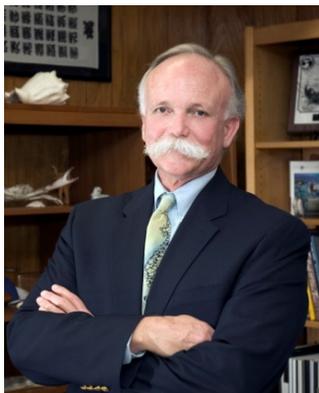
Rosanne Fortner
Oak Island, NC

Dr. Rosanne Fortner was the Education Coordinator for Ohio Sea Grant and the Director for COSEE Great Lakes. She has over 35 years of teaching, research and curriculum development experience. Fortner has written over 80 publications for science educators, 12 books of curriculum activities, online curriculum for Great Lakes decision-makers. She has been integral to the development of the Great Lakes Literacy Principles.



Amber Mace
Sacramento, CA

Dr. Amber Mace is the Deputy Director of the California Council on Science and Technology (CCST). In addition to providing strategic advice to the executive director and advancing CCST organizational goals, Mace leads the California Science, Technology and Policy Fellows program. Concurrently with her position at CCST, Mace maintains her affiliation with the UC Davis Policy Institute for Energy, Environment and the Economy as a Policy Fellow advancing a regional climate adaptation initiative. Prior to this position she served as the Executive Director of the California Ocean Protection Council (OPC) and Assistant Secretary for Coastal Matters at the California Natural Resources Agency from 2009 to 2012 and in dual roles as the Executive Director of the California Ocean Science Trust and the Science Advisor to the OPC from 2006 to 2009. Mace worked as a National Sea Grant John A. Knauss marine policy fellow for the U.S. Senate's Committee on Commerce, Science, and Transportation in 2006, and as a California Sea Grant state fellow at the Ocean Resources Management Program in the California Natural Resources Agency in 2005. Mace is dedicated to ensuring policy development and resource management decisions are outcome driven, cost-effective, and informed with sound science.



Michael Orbach
North Carolina

Dr. Michael Orbach is a Professor of the Practice of Marine Affairs and Policy in the Division of Marine Science Conservation at the Nicholas School of the Environment at Duke University. He has performed research and has been involved in coastal and marine policy on all coasts of the U.S. and in Mexico, Central America, the Caribbean, Alaska and the Pacific, and has published widely on social science and policy in coastal and marine environments. He has worked as a Cultural Anthropologist with the National Oceanic and Atmospheric Administration, and has held several Governor's appointments to environmental Boards and Commissions as well as appointments to National Academy of Sciences Boards and Committees. He has been the President of The Coastal Society, and Chairman of the Board of Directors of the Surfrider Foundation.



**Nancy Rabalais (Past Chair)
Cocodrie, Louisiana**

Dr. Nancy Rabalais is a Professor at the Louisiana Universities Marine Consortium where she is also Executive Director. Dr. Rabalais' research interests include the dynamics of hypoxic environments, interactions of large rivers with the coastal ocean, benthic ecology, and science policy. Dr. Rabalais is an AAAS Fellow, an Aldo Leopold Leadership Program Fellow, a Past President of the Estuarine Research Federation, and a National

Associate of the National Academies of Science and has served as Chair of the Ocean Studies Board. She currently serves on two National Research Council committees, the Council for the University-National Oceanographic Laboratories, the Executive Board for the Consortium on Ocean Leadership, and Board of Directors of the Gulf of Mexico Coastal Ocean Observing System, and is President Elect of the Southern Association of Marine Labs and the National Association of Marine Labs. She received the 2002 Bostwick H. Ketchum Award for coastal research from the Woods Hole Oceanographic Institution, the Blasker award shared with R.E. Turner, the Clarke Prize from the National Water Resources Institute, the Ruth Patrick Award from the Association for the Sciences of Limnology and Oceanography, a Rachel Carson Lectureship for the American Geophysical Union, and a Heinz Award. She earned a Ph.D. in Zoology from the University of Texas at Austin in 1983.



**Rollie Schmitten (Chair)
Leavenworth, Washington**

Rolland A. (Rollie) Schmitten has been a natural resources manager for 44 years; focusing on marine fish, shellfish, and mammals for the past 31 years. He has served as the Washington State Director of Fisheries and the National Marine Fisheries Service West Coast Regional Director for 6 western states. Upon moving to Washington, D.C. he became the Assistant Administrator/Director for the National Marine Fisheries Service; later the U.S. Department of Commerce Deputy

Assistant Secretary for International Affairs in NOAA, and the National Director for NOAA Fisheries Office of Habitat Conservation. During his career he served 4 presidents with Presidential appointments as the U.S. Tuna Commissioner, U.S. Atlantic Salmon Commissioner, the Pacific and Alaska Fisheries Management Councils, and 12 years as the U.S. International Whaling Commissioner. His many awards and recognitions include: Presidential Merit Award, Trout Unlimited Washington Sportsman of the Year, Presidential award for outstanding achievement of a Vietnam veteran, and the Department of Transportation (USCG) Commandant's Award for Meritorious Public Service. In 2005, Mr. Schmitten retired and moved back to Sockeye Point Lodge in Washington State where he continues to work on marine and fresh water resource issues. He is currently serving his 6th year as a Fish and Wildlife Commissioner in Washington State.



Harry Simmons
Caswell Beach, North Carolina

Harry Simmons has been Mayor of the Town of Caswell Beach, North Carolina since 1999. He currently serves as a Coastal Cities member of North Carolina's Coastal Resources Advisory Council, as chairman of the Brunswick (County) Beaches Consortium, as executive director of North Carolina Beach, Inlet & Waterway Association, as treasurer of the Atlantic Intracoastal Waterway Association and as president of the 85 year old American Shore & Beach Preservation Association. He is also working on North Carolina's Renewable Energy Task Force and with the South Atlantic Governor's Alliance Working Waterfronts group. Previously, Mayor Simmons also served on the Board of Directors of the NC League of Municipalities and on the National League of Cities' Energy, Environment and Natural Resources Policy Committee. He is often called upon to testify or comment before Congress and Federal agencies on a variety of coastal issues. Prior to his involvement in shaping America's coastal policy, Harry Simmons owned a music management firm and was primarily engaged in guiding the careers of record producers, songwriters and recording artists at record labels and publishing companies in New York, Los Angeles and Nashville. He is a member of the National Academy of Recording Arts & Sciences, which gives him a vote for the prestigious Grammy Awards each year. Mayor Simmons is a graduate of the Kenan-Flagler Business School at the University of North Carolina in Chapel Hill.



Bill Stubblefield
Martinsburg, West Virginia

Dr. William Stubblefield is currently the President of the County Commission in Berkeley County, WV. Prior to winning elected office, he served 35 years in uniform service, first in the U.S. Navy and later in NOAA. He retired as the Director of the Office of NOAA Corps Operations, with the rank of Rear Admiral. As Director, he had the responsibility of NOAA's ships, aircraft, and Commission Officers. Other active duty assignments included Executive Director of NOAA's Office of Oceanic and Atmospheric Research; Special Assistant, Office of the Chief Scientist, where he received the Department of Commerce Silver Medal; Commanding Officer of the NOAA Ship SURVEYOR; Chief Scientist for NOAA's Undersea Research Program; Program Monitor within the Office of Sea Grant; Deputy Director for Marine Geology and Geophysics Laboratory of the Atlantic Oceanographic and Meteorological Laboratory (AOML); research oceanographer in coastal processes at AOML; and service on several Navy and NOAA ships. Following his retirement from active duty, and prior to elected office, Rear Admiral Stubblefield served as an advisor to the Department of Geology, University of Iowa; elected to the Board of Directors of Military Officers Association of America with a membership of over 270,000; served as Chairman of the Board of Directors for the Public Service Commission Water District, Berkeley County, West

Virginia; co-chair for Berkeley County's Source Water Protection Study; member of Virginia/West Virginia Regional Water Policy Committee; Chairman of the Berkeley County Comprehensive Plan study group, and founder and President of Berkeley County Pride (a county beautification non-profit organization). He received his Ph.D. in geology from Texas A&M University.



Dick Vortmann
La Jolla, California

Richard H. Vortmann retired after a 30-year career with National Steel and Shipbuilding Company (NASSCO) based in San Diego, California where he served as President for 22 years. He also retired after six years as Vice President of General Dynamics Corporation. He most recently completed an assignment as Interim President and CEO of the San Diego Regional Chamber of Commerce. Vortmann recently completed a 7-year term on the Board (including 2 years as Chairman) of Scripps Health; Vortmann is a Member of Council,

American Bureau of Shipping. He is a Trustee on the San Diego County Employees Retirement System. Previously Vortmann served as Chairman of both the American Shipbuilders Association and the Shipbuilders Council of America, and Vice Chairman of the National Academies of Science Marine Board. For 14 years he was the Chairman of the American delegation to the Japanese, European, Chinese, Korean, and United States Annual Shipbuilding Conference. He also served as a Director of the San Diego Chamber of Commerce and the San Diego Economic Development Corporation. He was a member of the San Diego Mayor's Blue Ribbon Finance Committee, and Vice Chair of the San Diego Pension Reform Committee. Vortmann was born in San Francisco, California. He earned a Bachelor's degree in finance in 1966 and an MBA in 1967 from the University of California, Berkeley, for whom he also played basketball. He taught on the Business School faculty of his alma mater from 1967 to 1969 while doing postgraduate work before entering private industry.



Dick West (Vice Chair)
Coventry, Rhode Island

Admiral West (U.S. Navy, Retired) served as President/CEO of the Consortium for Oceanographic Research and Education (CORE) from August 2002 until December 2007. As President of this DC-based non-profit organization, he led efforts to promote ocean research and education within the U.S. federal government on behalf of the academic and private ocean research community. Admiral West significantly expanded the membership of CORE and was instrumental in promoting

several ocean initiatives and the establishment of a U.S. integrated ocean observing program. He has testified before the U.S. Congress on several marine related policy issues and has addressed the United Nations on 5 Safety of Life at Sea. Admiral West serves on two marine related U.S. Federal Advisory Committees and continues as a consultant on national and international maritime issues. Admiral West served as Oceanographer and Navigator of the Navy where he managed a \$400 million program providing oceanographic, meteorological, geospatial and navigation support to the U.S. Navy from 1999 to 2002. As the first Navigator of the Navy, he led the Navy's transition to electronic navigation. As Oceanographer of the Navy, he was the Department of Defense representative to the U.S. Ocean Commission. Admiral West was a career Surface Warfare Officer serving on several ships. Admiral West served in Vietnam with the riverine forces and commanded three ships, two during hostilities in the Arabian Gulf.

Sea Grant Week 2014



SEA GRANT WEEK
Detailed Agenda as of 8-20-14

Sunday, September 7, 2014		
Time	Meeting	Location
7:30am – 8:30am	National Sea Grant Advisory Board (NSGAB) Morning Refreshments	Waters Edge Foyer
8:30am – 5:00pm	National Sea Grant Advisory Board (NSGAB) Meeting: Open to the public	Waters Edge A-B
10:00am – 10:30am	National Sea Grant Advisory Board (NSGAB) Refreshment Break	Waters Edge Foyer
12:00pm – 1:00pm	National Sea Grant Advisory Board (NSGAB) Lunch	Waters Edge C
3:00pm – 3:30pm	National Sea Grant Advisory Board (NSGAB) Refreshment Break	Waters Edge Foyer
4:00pm – 6:00pm	REGISTRATION OPEN	Coral Room
4:00pm – 6:00pm	PUBLICATIONS SET-UP: There is space for two programs to share each table to display selected publications. All materials are to be removed by Friday at 12:30pm.	Grand Ballroom Foyer
4:00pm – 6:00pm	POSTER PRESENTER SET-UP: Each program may put a poster the size of one half of a poster board. Posters should be no larger than 3 x 4 feet, portrait-style. Posters must be removed by Friday at 8:30am.	Salon G
6:00pm	Dinner on your own: Many restaurants are available, in the hotel and within walking distance.	

SEA GRANT WEEK
Detailed Agenda as of 8-20-14

Monday, September 8, 2014		
Time	Meeting	Location
7:30am – 8:30am	Coffee, Tea, and Decaf Available in the Poster Display Room	Salon G
7:30am – 8:30am	National Sea Grant Advisory Board (NSGAB) Morning Refreshments	Waters Edge A-B
7:30am – 5:00pm	REGISTRATION OPEN	Coral Room
7:30am – 5:00pm	Posters and Publications on Display	Salon G
CONCURRENT MEETINGS		
8:30am – 12:00pm	National Sea Grant Advisory Board (NSGAB) Meeting: Open to the public	Waters Edge A-B
8:30am – 12:00pm	Communicators Meeting	Mangrove Room
8:30am – 12:00pm	Research Coordinators Meeting	Citrus Room
8:30am – 12:00pm	External Relations Committee Meeting	Executive Conference Room
8:30am – 12:00pm	Fiscal Officers Meeting	Salon C
8:30am – 10:00am	Network Advisory Council Meeting	Salon B
10:00am – 10:30am	National Sea Grant Advisory Board (NSGAB) Refreshment Break	Waters Edge A-B
10:00am – 10:30am	Refreshment Break in Poster Display Room	Salon G
10:30am – 12:00pm	Program Mission Committee Meeting	Salon A
12:00pm – 1:30pm	Lunch on your own	
CONCURRENT MEETINGS		
1:30pm – 5:00pm	Joint Communicators/Web Developers Meeting	Mangrove Room
1:30pm – 5:00pm	Extension Assembly Meeting	Salon D
1:30pm – 5:00pm	Fiscal Officers Meeting	Salon C
3:00pm – 3:30pm	Refreshment Break in Poster Display Room	Salon G
3:30pm – 5:30pm	Legal Coordinators Meeting	Mandalay Room
5:30pm	Dinner on your own: Many restaurants are available, in the hotel and within walking distance.	

SEA GRANT WEEK
Detailed Agenda as of 8-20-14

Tuesday, September 9, 2014		
Time	Meeting	Location
7:30am – 8:30am	Coffee, Tea, and Decaf Available in the Poster Display Room	Salon G
7:30am – 5:00pm	REGISTRATION OPEN	Coral Room
7:30am – 5:00pm	Posters and Publications on Display	Salon G
CONCURRENT MEETINGS		
8:30am – 12:00pm	Web Developers Meeting	Mangrove Room
8:30am – 12:00pm	Educators Meeting	Salon D
8:30am – 12:00pm	Legal Network Meeting	Mandalay Room
8:30am – 12:00pm	SGA Delegates Meeting	Grand Ballroom E-F
10:00am – 10:15am	Refreshment Break in Poster Display Room	Salon G
12:00pm – 3:00pm	Lunch on your own	
3:00pm – 5:00pm	SEA GRANT WEEK OPENING PLENARY	Grand Ballroom E-F
3:00pm – 3:10pm	Welcome and Introductory Remarks	
3:10pm – 3:30pm	Welcome by Mayor George Cretekos, Clearwater, FL	
3:30pm – 4:00pm	Gavin Smith, Executive Director, Coastal Hazards Center of Excellence "Adapting to Climate Change: Lessons from Natural Hazards Planning"	
4:00pm – 4:30pm	Jim Cantonis, President, Acme Sponge and Chamois Company, Tarpon Springs, FL "The Outcomes of Sea Grant - Private Sector Collaboration"	
4:30pm – 5:00pm	Harry Simmons, Mayor, Caswell Beach, North Carolina "Community Perspectives on Coastal Resilience - A Discussion"	
6:00pm – 8:00pm	Opening Welcome Reception: Beach Party Casual Attire	Sandpiper Deck

SEA GRANT WEEK
Detailed Agenda as of 8-20-14

Wednesday, September 10, 2014		
Time	Meeting	Location
7:30am – 8:30am	Light Continental Breakfast Available in the Poster Display Room	Salon G
7:30am – 5:00pm	REGISTRATION OPEN	Coral Room
7:30am – 5:00pm	Posters and Publications on Display	Salon G
CONCURRENT WORKSHOPS		
8:30am – 12:00pm	Getting to the Creative No and the Articulate Yes	Mangrove Room
8:30am – 12:00pm	Developing an Effective Cost-Recovery Outreach Program	Salon A
8:30am – 12:00pm	Sea Grant 701	Salon B
8:30am – 12:00pm	Working Effectively with Congress	Salon C
8:30am – 12:00pm	Successful Fund Raising	Mandalay Room
8:30am – 12:00pm	Effective Use of Social Media	Salon D
8:30am – 12:00pm	Sea Grant Response to Coastal Hazards	Citrus Room
8:30am – 12:00pm	Facilitating the Advocacy Conversation	Executive Conference Room
10:00am – 10:30am	Refreshment Break in Poster Display Room	Salon G
12:00pm – 1:30pm	Lunch Provided: Enjoy your Grab and Go Boxed Lunch by the pool, the beach, or just relax wherever you want. You will be provided with a boxed lunch coupon in your name badge.	Grand Ballroom Foyer
CONCURRENT WORKSHOPS		
1:30pm – 5:00pm	Effective Branding and Marketing for Program Visibility	Mandalay Room
1:30pm – 5:00pm	Effective Use of Advisory Councils	Salon A
1:30pm – 5:00pm	Linking Research with Extension	Mangrove Room
1:30pm – 5:00pm	Enhancing the Sea Grant–Land Grant Partnership	Salon B
1:30pm – 5:00pm	BMPs for Regional Partnerships	Salon C
1:30pm – 5:00pm	Communication about Climate Change	Salon D
1:30pm – 5:00pm	Translating Research into Practice	Citrus Room
3:00pm – 3:30pm	Refreshment Break in Poster Display Room	Salon G
5:30pm – 7:30pm	Poster Session Reception in Poster Display Room	Salon G

SEA GRANT WEEK
Detailed Agenda as of 8-20-14

Thursday, September 11, 2014		
Time	Meeting	Location
7:30am – 8:30am	Light Continental Breakfast Available in the Poster Display Room	Salon G
7:30pm – 5:00pm	REGISTRATION OPEN	Coral Room
7:30pm – 5:00pm	Posters and Publications on Display	Salon G
CONCURRENT WORKSHOPS		
8:30am – 12:00pm	Effective Branding and Marketing for Program Visibility	Mandalay Room
8:30am – 12:00pm	Effective Use of Advisory Councils	Salon A
8:30am – 12:00pm	Linking Research with Extension	Mangrove Room
8:30am – 12:00pm	BMPs for Regional Partnerships	Salon C
8:30am – 12:00pm	Communication about Climate Change	Salon D
8:30am – 12:00pm	Translating Research into Practice	Citrus Room
8:30am – 12:00pm	Facilitating the Advocacy Conversation	Salon B
10:00am – 10:30am	Refreshment Break in Poster Display Room	Salon G
12:00pm – 1:30pm	Buffet Lunch Provided in the Restaurant: Enjoy a complimentary lunch buffet and beverage. You will be provided with a lunch buffet coupon with your name badge.	Reflections Restaurant
CONCURRENT WORKSHOPS		
1:30pm – 5:00pm	Getting to the Creative No and the Articulate Yes	Mangrove Room
1:30pm – 5:00pm	Developing an Effective Cost-Recovery Outreach Program	Salon A
1:30pm – 5:00pm	Sea Grant 701	Salon B
1:30pm – 5:00pm	Working Effectively with Congress	Salon C
1:30pm – 5:00pm	Successful Fund Raising	Mandalay Room
1:30pm – 5:00pm	Effective Use of Social Media	Salon D
1:30pm – 5:00pm	Sea Grant Response to Coastal Hazards	Citrus Room
3:00pm – 3:30pm	Refreshment Break in Poster Display Room	Salon G
6:00pm – 7:00pm	Networking Social [Cash Bar]: Attendees may pay in cash or credit card or charge bar items to their rooms.	Grand Ballroom Foyer
7:00pm – 9:00pm	Sea Grant Awards Banquet: Business Attire	Grand Ballroom E-F

SEA GRANT WEEK
Detailed Agenda as of 8-20-14

Friday, September 12, 2014		
Time	Meeting	Location
7:30am – 8:30am	Light Continental Breakfast Available in the Poster Display Room	Salon G
7:30am – 8:30am	Poster Removal: All posters are to be removed from display boards by 8:30am before the plenary session begins.	Salon G
8:30am – 11:30am	Summarizing and Discussing BMPs From Workshops	Grand Ballroom E-F
11:30am – 12:00pm	Closing Remarks	Grand Ballroom E-F
12:00pm - 12:30pm	Removal of publications and table top display materials	Grand Ballroom Foyer

Floor Plan

Clearwater Hilton

