

## Thanks

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Skidaway Institute of Oceanography





# Thanks to Steering Team

Dave Easter (US IOOS)

Alan Leonardi (NOAA AOML)

George Sedberry (NOAA NMS)

Gale Peek (NOAA CSC)

Steve Woll (Weatherflow)

Debra Hernandez

Megan Lee

Vembu Subramanian

Abbey Wakely







# Stakeholder Meeting Agenda

8:00am – 8:30am	Registration and Coffee	(Breakfast Is On Your Own)
		(=:::::::::::::::::::::::::::::::::::::

8:30am – 9:00am State of SECOORA

(George Maul, SECOORA Chair and Debra Hernandez, SECOORA)

9:00am – 9:30am State of IOOS (Zdenka Willis, Director, U.S. IOOS Program Office)

9:30am – 10:00am Linking Physical and Biological Data

(Bonnie Ponwith, Director, NOAA SE Fisheries Science Center)

10:00am – 10:30am Break with Sponsors and PI Posters (Cumberland Room)

10:30am – 11:45am Fisheries Panel

Moderator: George Sedberry, NOAA National Marine Sanctuaries Southeast,

Gulf of Mexico, and Caribbean Region

Erich Jaeger, Maverick Fishing Tours

Mitch Roffer, ROFFS<sup>™</sup> and SECOORA PI

Jerry Ault, University of Miami

11:45am – 12:45pm Lunch with Sponsors and PI Posters (Cumberland Room)





# Stakeholder Meeting Agenda

12:45pm – 1:45pm

Coastal Hazards Panel

Moderator: Steve Woll, Weatherflow

Peter Sheng, University of Florida and SECOORA PI

Jesse Feyen, NOAA Office of Coast Survey

Peter Sucsy, St. Johns River Water Management District

2:00pm - 2:15pm

Break with Sponsors and PI Posters (Cumberland Room)

2:15pm – 3:15pm

Ecological Forecasting Panel

Moderator: Rob Condon, UNCW

- Ruoying He, NCSU and SECOORA PI
- Allison Allen, NOAA Ecological Forecasting Roadmap
- Brad Gane, Georgia Department of Natural Resources







### **SECOORA Members**







THE UNIVERSITY of NORTH CAROLINA





NICHOLAS SCHOOL OF THE ENVIRONMENT

DUKE UNIVERSITY MARINE LAB

ROSENSTIEL SCHOOL of MARINE & ATMOSPHERIC SCIENCE













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**SOUTH CAROLINA** 









































































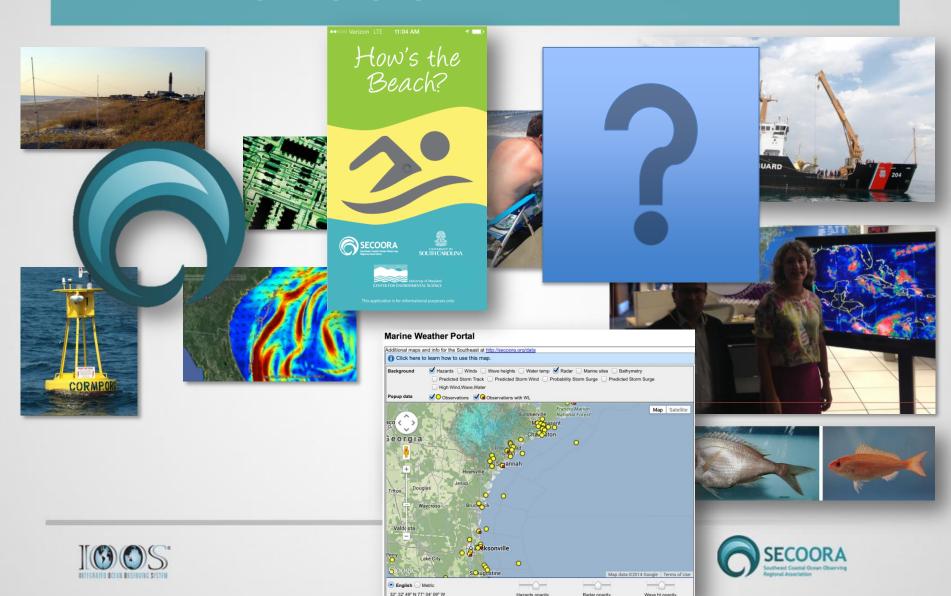








# **SECOORA Works!**



Wave ht opacity

# Impact: Observations

- 253 real-time stations (federal & nonfederal)
  - -22% of coastal ocean surface
  - -71% of subsurface

-3000 obs/hour ... 26.3M/year





# In-person outreach in 2013

### Engaged in over 62 outreach events (138% incr.)

- Ecological Forecasting webinar
- WFOs (Chas., Tampa, Miami)
- Nat'l Hurricane Center
- Wilmington sector USCG
- NC Sea Grant
- SE Fisheries Science Center
- Ocean Acidification Office
- GSAA meetings

- Our Global Estuary (HBOI)
- Congressional offices
- SRI International
- UNCW, NCSU, FGCU, UM, AOML, USF
- NC Coastal Management & Sentinel Site programs
- SC Maritime Association (2014)





# Digital Outreach since Jan. 1 2014

646 newsletter subscribers (2% incr.)

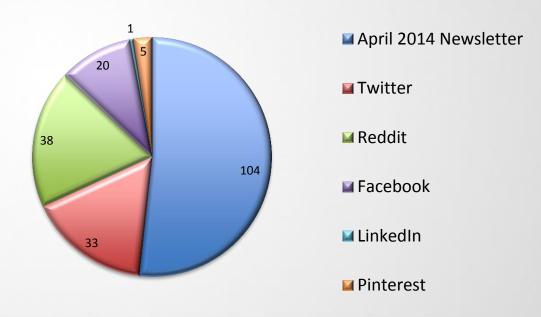
59% > newsletter opens

25% > Facebook likes

54% > Twitter followers

# Social Media Referrals to Website Jan. 1, 2014 - May 11, 2014

201 total Page Sessions







# Impact: Delivering Benefits

- Gliderpalooza
- HURREX
- Ecological Forecasting Roadmap
- SE Ocean Acidification Network (?)



September 1, 2013

#### **Ecological Forecasting Roadmap**

A Roadmap to Enhance Development and Delivery of NOAA's

**Ecological Forecasting Services** 

#### Section I: Definition and Background

The concept of ecological forecasting has been around for at least two to three decades and continues to gain traction as a unifying theme around which to integrate capabilities across disciplines toward development of predictive tools for resource management and ecosystem applications (e.g., CENR, 2001; Clark et al., 2001; Valette-Silver and Scavia: 2003; Sandiffer et al. 2012; plus numerous internal NOAA documents). While there are several definitions for ecological forecasting in the literature, for the purposes of this document we define ecological forecasting as follows:

What Do We Know? What Don't We Know? What Do We Need to be Thinking About?

- What is the state of the science?
- Who are the stakeholders?
- What are the unique considerations of the region?
  - Estuaries, Gulf Stream, Eddies, Species (coralline algae, seagrasses, corals, shrimp, shellfish, cobia, sturgeon)
- Others TBD?



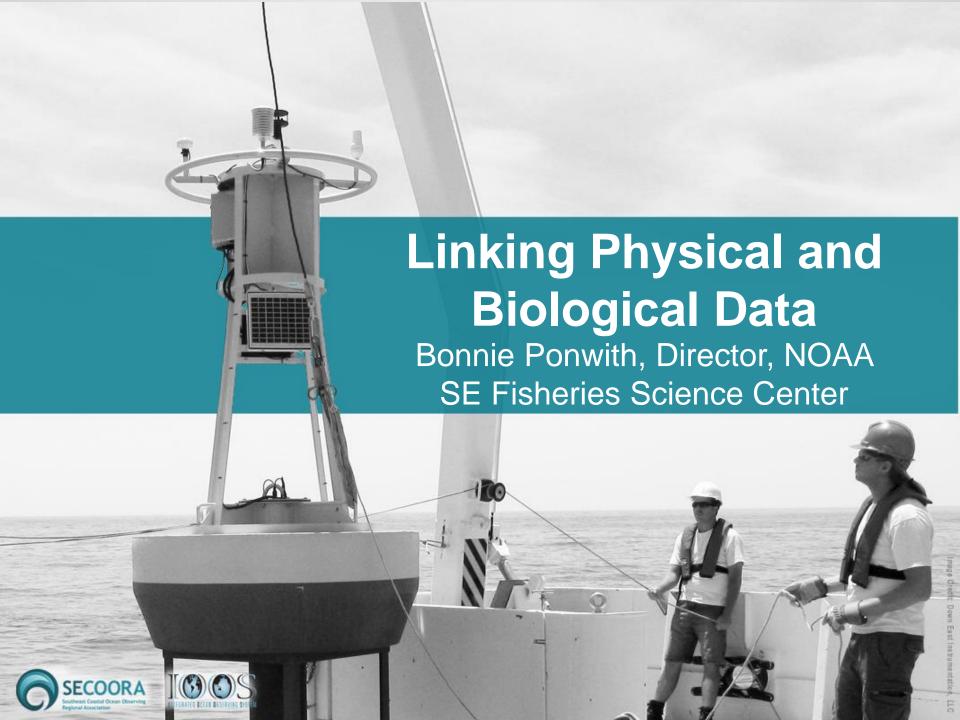












### Break



# Sponsors / PI Poster Session (Cumberland Room)





### **Fisheries Panel**

Moderator: George Sedberry, NOAA National Marine Sanctuaries Southeast, Gulf of Mexico, and Caribbean Region

- Erich Jaeger, Maverick Fishing Tours
- Mitch Roffer, ROFFS<sup>TM</sup> and SECOORA PI
- Jerry Ault, University of Miami





### Lunch



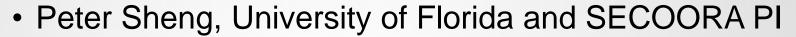
# Sponsors / PI Poster Session (Cumberland Room)





### **Coastal Hazards Panel**

Moderator: Steve Woll, Weatherflow



- Jesse Feyen, NOAA Office of Coast Survey
- Peter Sucsy, St. Johns River Water Management District





### Break



# Sponsors / PI Poster Session (Cumberland Room)





# **Ecological Forecasting Panel**

Moderator: Robert Condon, UNCW

- Ruoying He, NCSU and SECOORA PI
- Allison Allen, NOAA Ecological Forecasting Roadmap
- Brad Gane, Georgia Department of Natural Resources







### **Members Business Meeting Agenda**

3:15pm – 3:30pm

Welcome (George Maul, SECOORA Chair)

- Introductions / Roll Call
- Sponsor Recognition

3:30pm - 4:00pm

IOOS Association Update and Congressional Outlook (Josie Quintrell, Director, IOOS Association)

4:00pm - 5:00pm

SECOORA Members Business Meeting (George Maul, SECOORA Chair)

- SECOORA Annual Update (SECOORA Staff)
- SECOORA FY15 Operating Budget Review / Approval (John Proni, SECOORA Treasurer)
- Use of Member Dues (Debra Hernandez, SECOORA)
- Review of Election Procedures / Annual Election of Board of Directors (Mitch Roffer, SECOORA Board Development Committee Chair)
- Board Member Recognition (George Maul, SECOORA Chair)

5:00pm - 6:00pm

Happy Hour with Sponsors and PI Posters

- Beer and Wine Provided with Light Hors d'oeuvres
- Take Down Exhibits and Posters





## Welcome



George Maul, SECOORA Chair

- Introductions/ Roll Call
- Sponsor Recognition





# Sponsorship

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### **SECOORA Members**







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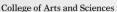
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Southeast, Gulf of Mexico, and Caribbean Region of the Office of the National NATIONAL MARINE Marine Sanctuaries







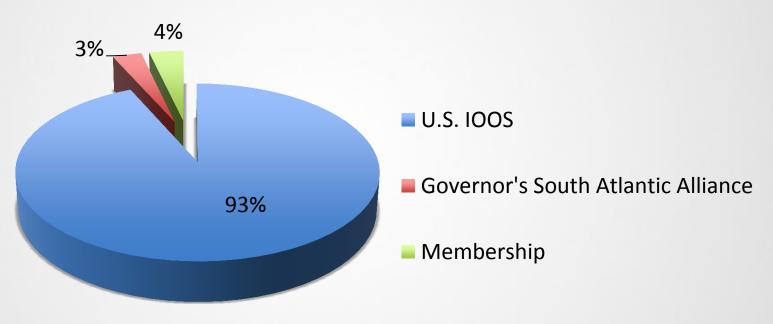






# 2014 Financials

### INCOME



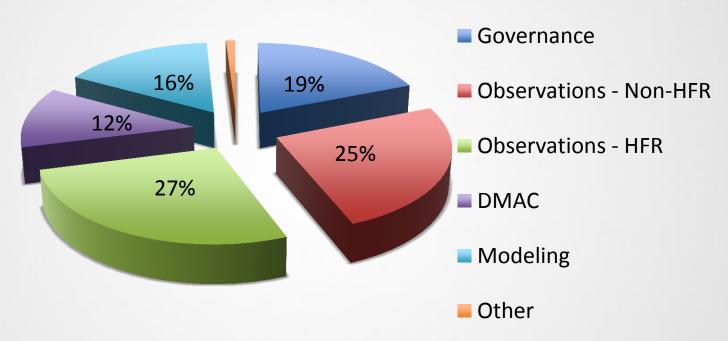
The financial information represents funding allocated in 2014.





# 2014 Financials

#### **EXPENSES**



The financial information represents funding allocated in 2014.



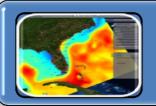


### **SECOORA RCOOS Elements**



#### **Observing**

Goal: Sustain existing observational assets



#### **Modeling**

Goal: Support regional ocean circulation and application-specific models



#### **Data Management and Communications**

Goal: Support data providers and users on integration and delivery of data and information products, maintain DMAC infrastructure, and collaborate with IOOS on DMAC efforts.



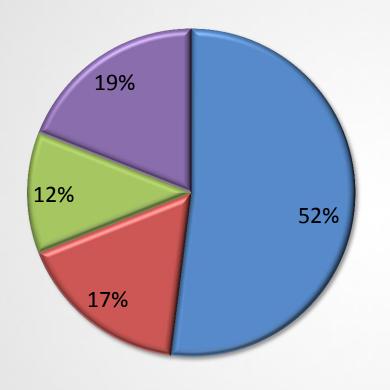
#### In-reach, outreach and operations

Goal: Engage staff, board, RCOOS PIs and members to increase awareness and promote SECOORA and U.S. IOOS





### Year 3 IOOS Funding: \$2.49M



- Observing
- Modeling
- Data Management
- Management and Development

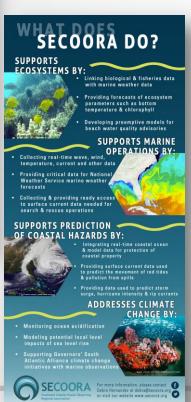
Year 3 Integration Projects: HF Radar Waves - \$60K Model Skill Assessment - \$32K Product Development - \$56K





### Outreach







**OUR EYES ON THE SOUTHEAST COAST** 

#### WHO WE ARE:



#### **OUR EYES ON THE SOUTHEAST COAST**



#### WHO WE ARE:

The Southeast Coastal Ocean Observing Regional Association, SECOORA, collects and delivers critical data and information necessary to increase our understanding of our coast and oceans in NC, SC, GA, and FL. SECOORA is one of the eleven regions that comprise the Integrated Ocean Observing System, IOOS. IOOS is a federal, regional, and private-sector partnership working to enhance our ability to collect, deliver, and use information.

#### WHAT WE DO IN GEORGIA:



- · Educate tomorrows ocean leaders by bringing observing technologies and tools into the classroom of students in GA
- · Support marine commerce and safe operations through data accessibility
- · Monitor ocean surface currents and waves along the GA coast through high frequency radars, buoys, and





SOUTHEAST COASTAL OCEAN OBSERVING REGIONAL ASSOCIATION E CHARLESTON, SC | WWW.SECOORA.ORG | 843.906.8686 f

http://secoora.org/members/frequent\_docs





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4% Membership 3% Governor's



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graphic for implement Southeast. beaches to



2013

Debra Hernand Executive Di debra@seco 843.906.8686

#### SECOORA

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**SECOORA** ANNUAL REPORT 2013

# Maintain and upgrade interactive maps and data portal:

• ... to a more intuitive catalog approach providing the user greater control over content.



UNIVERSITY OF SOUTH CAROLINA

Q

Organization: University of South Carolina
Group: Coastal Processes & Sediment Dynamics Lab

Contact: Dr. George Voulgaris;

#### Overview:

he University of South Carolina (Department of Geological Sciences / Marine Science Program) and the Skidaway Institute of Oceanography (SKIO, GA) have installed two shore-based HF-radars along the South Carolina - Georgia coastline to measure surface currents across the continental shelf. The USC radar was installed with SEACOOS funding (through ONR) and the systems have been operational since April 2006. These HF-radars are long-range WERA installations manufactured by Helzel MessTechnik of Germany. They operate at a frequency of 8.3 MHz, and measure near surface currents (upper ~one-meter depth) along radials towards or away from each installation. Each radial extends over 120km (during daytime) and the radials span a region +/-60 degrees from the perpendicular of the linear antenna array. In the region where the USC and SKIO installations overlap at a sufficient angle, 2-D vector velocities can be constructed from the radial velocities. The USC installation if located at Pritchard's Island, a pristine barrier island on the South Carolina coast. The electronics are housed on the Marine Laboratory operated by the University of South Carolina, Beaufort, while the SKIO installation is on St. Catherine's Island GA.



Organization: University of South Florida Group: Institute of Marine Remote Sensing Contact:









### **SECOORA FY15 Operating Budget**

Review/Approval

(see handout)







## **Use of Member Dues**



(see handout)





### **Use of Members' Dues**



F&A Committee's Prioritized List for Use of Members' Dues

(see handout)

## 1/30/14 Meeting Results Priorities:

- 1) Add \$10-20K annually to the reserve fund
- 2) Host Congressional luncheons
- 3) Invest in the Stakeholder Council
- 4) Advertise SECOORA







### **Annual Election Board of Directors**

Mitch Roffer SECOORA Board Development Committee Chair

- Review of Election Procedures
- Annual Election of Board of Directors





# **Board Member Recognition**

THANK YOU!!

PETER SHENG

BOB WEISBERG

GEORGE MAUL





# **Evening Happy Hour**

Sponsors and PI Posters





