

SECOORA Board Meeting

June 18, 2019

1:00 – 3:30 PM

SECOORA Annual Meeting

www.secoora.org/2019-annual-meeting

  #SECOORA19

Agenda

- 1:00 - 1:15 PM Welcome
- 1:15 - 1:30 PM Treasurer Report
- 1:30 – 1:45 PM Executive Director and Strategic Plan Report Out
- 1:45 – 2:00 PM Break
- 2:00 - 2:30 PM Committee and Staff Updates
- 2:30 – 3:30 PM IOOS 5 Year Federal Funding Opportunity Process Update
- 3:30PM Adjourn

Welcome

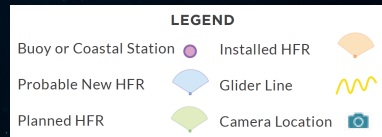
- Introductions / Roll Call
- Approval of Agenda
- Minutes Approval – April 15, 2019 **VOTE**
- Select Date: July Board Call / Officer Elections
- Choose: December 2019 Board Meeting Dates in Charleston, SC
 - December 16-17, 2019
 - December 17-18, 2019
- Brainstorm location and dates for 2020 Meeting
 - St. Petersburg, FL – schedule with Vembu Cup?

SELECT ONE

Mitch Roffer
SECOORA Treasurer

Mitch Roffer

SECOORA Treasurer



Treasurer Report

Review of Financial Report as of April 30, 2019

SEE HANDOUT

	Last Year Actual Apr. 2018	Current Year Actual Apr. 2019	Annual Budget	Budget Balance Remaining as of 4/30/19	% To Be Collected / % of Expenses Remaining as of 4/30/19
INCOME					
Core Grant Revenue	35,823.96	29,281.61	514,791.00	138,750.81	
Membership Dues			40,000.00	3,567.50	
Other Revenue	505.00		84,637.00	82,619.78	
TOTAL INCOME	\$36,328.96	\$29,281.61	\$639,428.00	\$224,938.09	35.18%
EXPENSES					
Personnel Expenses			500,000.00	119,551.34	23.91%
Salaries	25,647.04	49,828.64			
Benefits & Mandates	7,110.01	9,132.72			
Contract Services	164.50	935.62	29,875.00	7,612.04	25.48%
Education/Outreach Services				-1,908.00	
Travel	18,375.18	447.33	57,000.00	24,503.95	42.99%
Expendable Supplies	2,154.95	453.34	8,800.00	5,099.91	57.95%
Dues & Subscriptions			10,000.00	-75.00	-0.75%
Other Expense					
Tort Liability Insurance	229.43	229.42	2,753.00	458.83	16.67%
Office Expenses	796.10	696.11	9,000.00	2,487.72	27.64%
Other Contingency expenses	922.47	175.00	2,000.00	1,514.98	
Student Opportunities			20,000.00	19,538.96	
TOTAL EXPENSES	\$55,399.68	\$61,898.18	\$639,428.00	\$178,784.73	27.96%
Net Income (Loss)	-\$19,070.72	-\$32,616.57			

Treasurer Report

Review of Subcontracts as of June 6, 2019

SEE HANDOUT

	A	B	C	D	E	F	G	H	I	J
	Contract Number	Institution	PI	Code	Total Award Amount Years 1, 2, & 3	Invoices Received To Date	Amount Remaining in Award	Start Date	End Date	Extension
1										
2										
3	IOOS YEAR 1, 2 & 3									
4	SECOORA GLIDER HOLDBACK	SECOORA	Debra Hernandez	GOV	\$106,765.00	\$72,221.63	\$34,543.37	6/1/16	5/31/19	5/31/20
5	IOOS.16(028)UNCW.LL.OBS.1	UNCW	Lynn Leonard	OBS	\$1,109,600.00	\$933,848.08	\$175,751.92	6/1/16	5/31/19	5/31/20
6	IOOS.16(028)USF.BW.OBS-MOOR.1	USF	Bob Weisberg	OBS-MOOR	\$755,380.00	\$602,993.95	\$152,386.05	6/1/16	5/31/19	5/31/20
7	IOOS.16(028)USF.ML.OBS.1	USF	Mark Luther	OBS	\$152,000.00	\$146,463.38	\$5,536.62	6/1/16	5/31/19	5/31/20
8	IOOS.16(028)UM.LS.OBS.1	UM	Nick Shay	OBS	\$399,520.00	\$309,862.71	\$89,657.29	6/1/16	5/31/19	5/31/20
9	IOOS.16(028)FIT.GM.OBS.3	FIT	George Maul	OBS	\$167,532.00	\$0.00	\$167,532.00	6/1/18	5/31/19	5/31/20
10	IOOS.16(028)USC.GV.OBS.1	USC	George Voulgaris	OBS	\$272,716.00	\$228,123.45	\$44,592.55	6/1/16	5/31/19	5/31/20
11	IOOS.16(028)UGA/SkIO.DS.OBS.1	UGA/SkIO	Dana Savidge	OBS	\$272,800.00	\$148,354.01	\$124,445.99	6/1/16	5/31/19	5/31/20
12	IOOS.16(028)UGA/SkIO.DS.OBS.3	UGA/SkIO	Dana Savidge	OBS	\$190,275.00	\$0.00	\$190,275.00	6/1/18	5/31/19	5/31/20
13	IOOS.16(028)UNCCH.HS.OBS.1	UNCCH	Harvey Seim	OBS	\$328,160.00	\$269,542.00	\$58,618.00	6/1/16	5/31/19	5/31/20
14	IOOS.16(028)USF.BW.OBS-HFR.1	USF	Bob Weisberg	OBS-HFR	\$364,520.00	\$295,989.34	\$68,530.66	6/1/16	5/31/19	5/31/20
15	IOOS.16(028)SCDNR.DS.OBS.1	SCDNR	Denise Sanger	OBS	\$110,000.00	\$88,317.15	\$21,682.85	6/1/16	5/31/19	5/31/20
16	IOOS.16(028)UGA/SKIO.CE.GLD.1	UGA/SKIO	Catherine Edwards	GLD	\$79,415.00	\$49,960.42	\$29,454.58	6/1/16	5/31/19	5/31/20
17	IOOS.16(028)GATECH.FZ.GLD.1	GATECH	Fumin Zhang	GLD	\$62,286.00	\$62,286.00	\$0.00	6/1/16	5/31/19	5/31/20
18	IOOS.16(028)UNCCH.HS.GLD.1	UNCCH	Harvey Seim	GLD	\$77,381.00	\$39,942.98	\$37,438.02	6/1/16	5/31/19	5/31/20
19	IOOS.16(028)NCSU.RH.GLD.1	NCSU	Ruoying He	GLD	\$53,349.00	\$13,637.50	\$39,711.50	6/1/16	5/31/19	5/31/20
20	IOOS.16(028)USF.CL.GLD.1	USF	Chad Lembke	GLD	\$82,803.00	\$40,881.67	\$41,921.33	6/1/16	5/31/19	5/31/20
21	IOOS.16(028)USC.DP.MOD.1	USC	Dwayne Porter	MOD	\$304,000.00	\$236,669.51	\$67,330.49	6/1/16	5/31/19	5/31/20
22	IOOS.16(028)NCSU.RH.MOD.1	NCSU	Ruoying He	MOD	\$395,200.00	\$316,202.49	\$78,997.51	6/1/16	5/31/19	5/31/20
23	IOOS.16(028)UNCW.JD.OBS.1	UNCW	Lynn Leonard	PRO	\$62,181.00	\$60,928.70	\$1,252.30	6/1/16	5/31/19	5/31/20
24	IOOS.16(028)UGA.SN.OA.1	UGA/OA	Scott Noakes	OA	\$164,736.00	\$83,355.41	\$81,380.59	6/1/16	5/31/19	5/31/20
25										
26	SECOORA Contracts									
27	Anna Jones (Coastal States Stewardship Foundation)				\$4,000.00	1,774.20	2,225.80	11/29/18	2/28/19	2/28/20
28	Axiom Data Science (DMAC & WebCat Services)				\$605,232.00	571,258.37	33,973.63	6/1/16	5/31/19	
30	Filipe Fernandez (Curate IOOS Open Source Depositories)				\$163,995.00	148,113.75	15,881.25	6/1/16	5/31/19	
31										

Treasurer Report

Review of Membership P&L as of April 30, 2019

SECOORA MEMBERSHIP REVENUES AND EXPENSES - CASH ON HAND REPORT

SEE HANDOUT

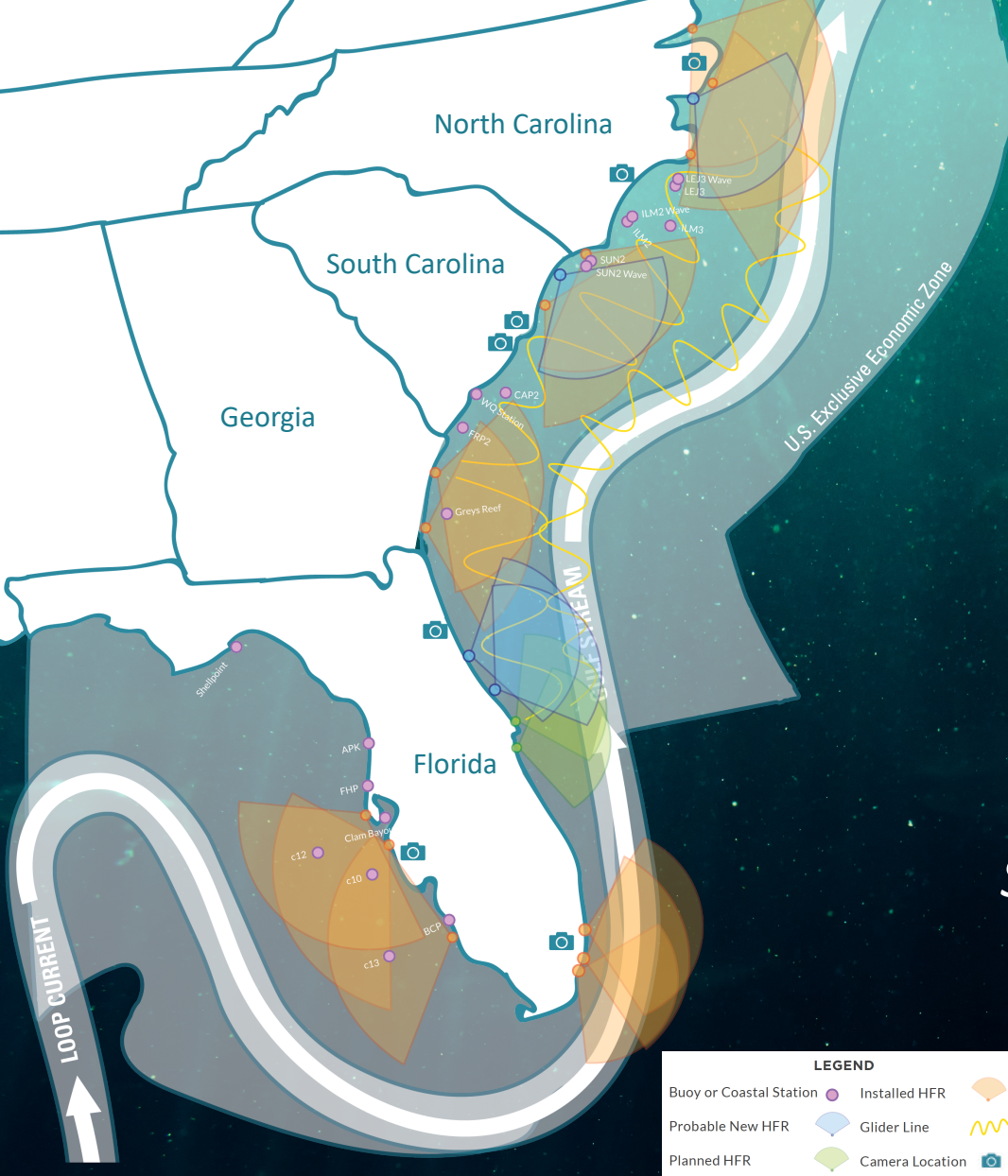
	FY08 - FY15	FY16	FY17	FY18	FY19 04/30/19	Grand Total
Revenue						
Membership Dues	313,750.00	41,250.00	38,500.00	37,450.00	36,432.50	
Registration / Meeting Sponsorships	11,969.00	500.00	500.00			
Corporate Sponsorship				7,379.55	2,000.00	
Interest Earned			21.15			
Miscellaneous	2,181.47	2,483.83	26,591.77	2,128.98	17.22	
Total Revenue	327,900.47	44,233.83	65,612.92	46,958.53	38,449.72	523,155.47
Expenses						
5% DH Salary and Benefits	33,107.77	6,293.55	6,886.24	6,596.61	6,232.32	59,116.49
Travel / Meeting	36,784.31	9,743.46	13,536.96	8,124.78	4,196.73	72,386.24
IOOS Association Dues	3,000.00	500.00	3,000.00	2,000.00	1,000.00	9,500.00
Expendable Supplies	1,656.23	134.72	563.97		64.45	2,419.37
Legal	2,525.00					2,525.00
Home Office Expense			(1,046.00)			-\$1,046.00
Returned Dues (2 checks were submitted)	2,000.00					2,000.00
Education / Outreach	1,851.50	50.00			500.00	2,401.50
Bank Fees	414.09					414.09
Contract Services	700.00			570.37		1,270.37
Insurance - Liability, Health, Workers Comp	2,816.88					2,816.88
Charleston County (Property Tax) / State (Filing Fees)	683.95					683.95
Contingency	1,291.52					1,291.52
Accounting Adjustment by Elliott Davis - Expendable Supplies	-2,151.61					-\$2,151.61
Student Opportunities - E&O					461.04	461.04
Data Challenge Annual Awards				7,500.00		7,500.00
Vembu Subramanian Scholarship Fund Matching			16,287.19	10,349.00		26,636.19
Total Expenses	84,679.64	16,721.73	39,228.36	35,140.76	12,454.54	188,225.03
Income/(Loss)	243,220.83	27,512.10	26,384.56	11,817.77	25,995.18	334,930.44

TARGET RESERVE FUND (SECOORA Operating Expenses)

280,000.00



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Strategic Plan Report Out

Debra Hernandez,
SECOORA Executive Director

SECOORA Annual Meeting

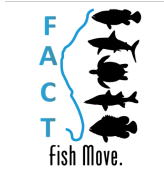
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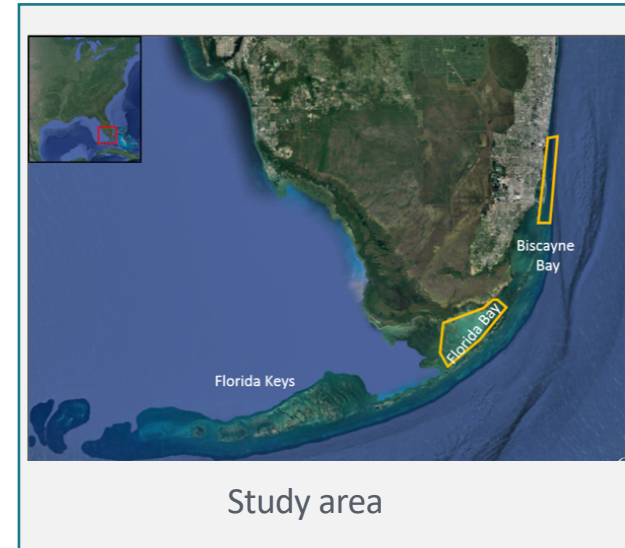
Outline

- First Foundation Grant
- Strategic Plan Update
 - Time Period: June 1, 2018 to May 31, 2019
- Funding Update
 - Hurricane Repairs
 - Coastal and Ocean Modeling Testbed Project
 - IOOS Year 4
 - WebCAT

SECOORA & FACT Receive Foundation Challenge Grant to Support Fisheries Research in South Florida



\$15,000 –
Curtis & Edith
Munson Foundation
Purpose: Purchase
& deploy water
temperature
loggers and
acoustic receivers



Challenge grant – 1:1 match

Purpose:
Matching dollars will fund a graduate student
and purchase equipment to support their
research.

THE CURTIS & EDITH MUNSON FOUNDATION

Munson Foundation is Supporting the FACT Network



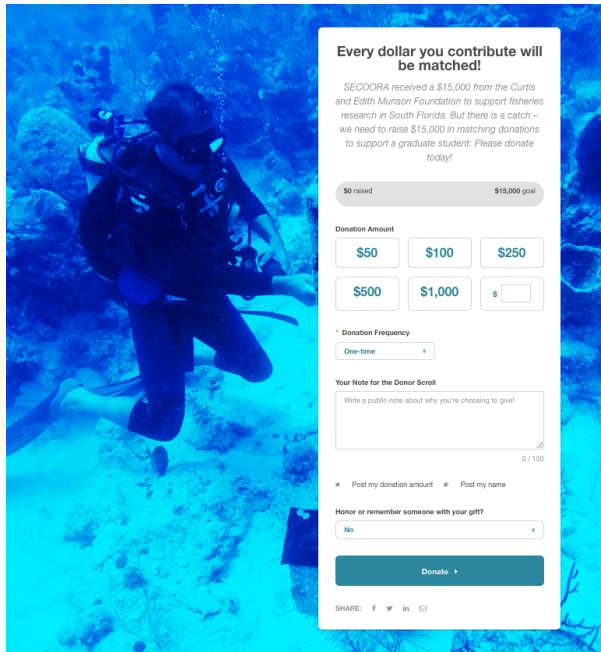
- Purchase 30 HOBO temperature loggers and 3 VEMCO receivers.
 - All items received by Joy Young and ready for deployment
- Temp loggers will be co-located with VEMCO receivers to aid in understanding of:
 - temperature impacts to fish habitat use
 - creation of predictive models of temperature dependent fish behavior
 - model validation for hurricanes
 - coral reef response to water temperature
- Temp logger data will be shared with SECOORA for use by other research partners such as the SAFMC
- Updates to FACT Projects page (<https://secoora.org/fact/projects-species/>)
 - include 8-9 projects
 - Munson Foundation award

Two ways to reach goal of \$15,000 match!



Reminder: Every dollar contributed will be 1:1 matched. Funds will support a graduate student to coordinate the collection of the data from the temperature loggers and purchase acoustic sensors to tag fish. All data will be incorporated in a research project.

Option 1: Donate Directly

A screenshot of a donation webpage for SECOORA. The background is a blue-tinted image of a diver underwater. The webpage has a white overlay with the following text: "Every dollar you contribute will be matched!". Below this, a paragraph states: "SECOORA received a \$15,000 from the Curtis and Edith Munson Foundation to support fisheries research in South Florida. But there is a catch - we need to raise \$15,000 in matching donations to support a graduate student. Please donate today!". A progress bar shows "\$0 raised" and "\$15,000 goal". Under "Donation Amount", there are buttons for \$50, \$100, \$250, \$500, \$1,000, and a custom amount field. Under "Donation Frequency", there is a dropdown menu set to "One-time". A text area for "Your Note for the Donor Scroll" is present. At the bottom, there are checkboxes for "Post my donation amount" and "Post my name", a dropdown for "Honor or remember someone with your gift?" set to "No", and a "Donate" button. Social sharing icons for Facebook, Twitter, LinkedIn, and Email are at the very bottom.

Easy donation webpage set up on Network for Good (donation platform).

All donations are secure and tax deductible.

Option 2: Potential Donors?

Do you have foundations or other groups that might be interested in providing matching support?

Please let us know!

SECOORA Strategic Plan: 2016-2021

MISSION

SECOORA's mission is to observe, understand, and increase awareness of our coastal ocean; promoting knowledge, economic and environmental health through strong regional partnerships.

5 YEAR VISION

SECOORA is the recognized leader, valued partner, and go to source for coastal ocean information in the southeast.

CORE VALUES

We believe in...



Scientific integrity,
technical excellence,
and innovation



Inclusive and collaborative
partnerships



Active stewardship of
coastal ocean ecosystems



Leadership in coastal
ocean science



Accessible useful information
for addressing societal needs



Science based discovery and
decision-making



Positive and supportive
SECOORA working
environments

STRATEGIC GOALS

1 Increase exposure and broaden usage of SECOORA's information and products

Strategies:

- Improve web-based information system and web presence.
- Provide state of the art tools, including phone apps, data analysis tools and decision support tools, and information on how to use the tools
- Implement an effective outreach strategy to reach priority user groups, such as mariners, fisheries managers, marine planners, etc.

2 Utilize a prioritized science-justified ocean observing system plan to guide and inform decision making and implementation

Strategies:

- Regularly review status of Coastal Ocean Observing System technologies and advancements
- Develop agreement on the Regional Coastal Ocean Observing System Plan utilizing existing proposal, plans and documents
- Utilize the RCOOS plan for funding opportunities

3 Expand partnerships – including membership and stakeholders

Strategies:

- Outreach to currently under-represented sectors to participate in SECOORA activities and initiatives
- Develop new services, and better market current services, including benefits for members
- Identify and promote opportunities for potential partners (non-members) to engage in SECOORA activities and initiatives

4 Engage and inform students and the public in ocean observing

Strategies:

- Support citizen-science opportunities
- Engage students in problem solving using ocean observing data
- Establish our researchers and program managers as resources for students and the general public
- Identify and pursue cooperative educational funding opportunities

5 Improve SECOORA's organization capabilities

Strategies:

- Expand & diversify funding that advances SECOORA's mission
- Ensure SECOORA's operational & governance structure enables us to achieve our vision
- Have an effective marketing and out-reach strategy
- Ensure effective implementation of all grants, including the IOOS grant

GOAL 1 - Increase Exposure and Broaden Usage of SECOORA's Information and Products

Time Period: June 1, 2018 to May 31, 2019

6 WEBINARS

358 People Attended ↑ 52%
576 People Registered ↑ 66%
181 Views on YouTube ↓ 43%
515 People on Listserv

DATA PORTAL

11,212 Sessions ↑ 60%
5245 Users ↑ 52%
2 Feedback Sessions

WEBSITE

51,290 Sessions ↑ 4%
41,446 Users ↑ 23%
38 News Stories ↑ 6%

SOCIAL MEDIA



↑ 21%

650 Twitter Followers



↑ 14%

452 Facebook Likes

174 Data Portal Referrals ↑ 67%
1546 Website Referrals ↑ 149%

MISCELLANEOUS

1 Annual Report
2 Public Forums
6 Emails to Newsletter Listserv (1022 ppl)
1 Boat Show
2 Product Rack Cards

GOAL 2 - Utilize a Prioritized Science-Justified Ocean Observing System Plan to Guide and Inform Decision Making and Implementation

Time Period: June 1, 2018 to May 31, 2019

15 SCIENCE MEETINGS

2 Sponsored Meetings

OBSERVING PLANS

RCOOS Plan Draft (17 Reviewers)

BY THE NUMBERS

20 ~~13~~ 
HF Radars

13 
Buoys

6 
Coastal Stations

 **178** ++
Glider Days at Sea

6 ~~4~~ Models and Applications 

Pamlico Sound, NC and St. John's River, FL

GOAL 3 - Expand Partnerships – including membership and stakeholders

Time Period: June 1, 2018 to May 31, 2019

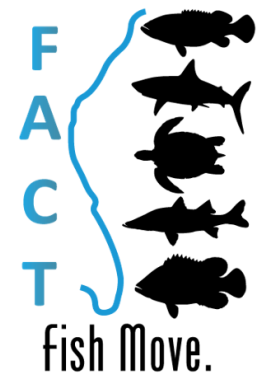
MEMBERSHIP

4 New Members Joined
40 SECOORA Members
6 In Person Member In-reach Meetings
6 Meetings with Potential Members



FACT Network

4,470 Pageviews ↑ 75%
1 Foundation Grant
1 Data Manager



SOCAN

1 South Carolina and Georgia
Stakeholder Meeting
3 In Person Outreach Visits
1,517 Pageviews ↓ 27%



SDRP

2,997 Pageviews ↑ 211%
2 In Person Meeting
In Process of Hiring a New Coordinator
New Website Launched March 2019



GOAL 4 - Engage and inform students and the public in ocean observing

Time Period: June 1, 2018 to May 31, 2019

VEMBU SUBRAMANIAN AWARD

\$1,000 Raised for VS Award Giving Tuesday

Increased Award to \$3500

3 People Applied for the Award



STUDENT OUTREACH

1 Science Festival with GCOOS

4 Field Trips to a Coastal Station in FL

1 Undergraduate Data Workshop



E&O COMMITTEE

4 Calls Were Held

Planning SLR Curriculum 4 Part Webinar Series

EXTREME EVENT

1 Hurricane Data Page

1 Red Tide Data Page

2 National News Stories

1 INFOGRAPHIC

Projects By State

DATA CHALLENGE

5 Applied

2 Awards of \$3,000

Expands WebCAT Data Use



GOAL 5 - Improve SECOORA's Organization Capabilities

Time Period: June 1, 2018 to May 31, 2019



CONGRESSIONAL

18 In person meetings with Congressional staffers
(+ numerous other phone calls & emails)

Fill the Gaps Campaign resulted in:

6 radars

1 new Slocum profiling glider

ADMINISTRATION

Clean audit report

2 IOOS progress reports submitted

1 IOOS descope completed

6 Principal Investigator calls



PROPOSALS

7 Federal proposals submitted (5 funded)

1 foundation proposal funded

THE CURTIS & EDITH MUNSON FOUNDATION

Funding Update

Hurricane Repairs: \$1.014M

- 7 contracts issued
- Purchasing supplies & equipment
- Monthly updates and quarterly reports
- 2 year award

Coastal & Ocean Modeling Testbed project: \$899k

- 2 contracts
- 3 year award

Pending - Hurricane Gliders: \$220k

- 2 year award

IOOS Year 4: ~\$3.4M

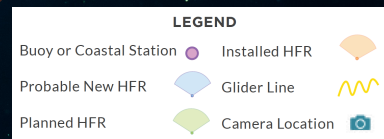
- IOOS core funds: \$2.4M
- Fill the Gap campaign: \$505k
 - HAB effort on the west Florida shelf
 - Acoustic sensors on buoys / data analysis
- ATN (FACT and GADNR): \$155k
- SCDRP: \$110k
- SOCAN: ~ \$30k
- OAP (Gray's Reef buoy): \$31k
- Regional Ocean Data: \$166k
- 1 year award

- WebCAT

- \$5,000

Abbey Wakely, SECOORA

Abbey Wakely, SECOORA



Education and Outreach Committee Update

Members

Dwayne Porter, University of South Carolina (Chair)

EV Bell, SC Sea Grant

Philip Kramer, FL Institute of Oceanography

Melinda Simmons, Jacksonville University

Lisa Adams, Kennesaw State University

Projects Update

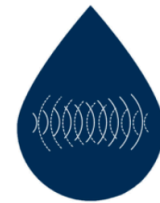
Data Challenge

- 5 proposals were submitted
- 2 awards of \$3,000
- Expands WebCAT data use

Vembu Award:

- Updated to support conference presentation travel and research
- 3 People Applied for the Award

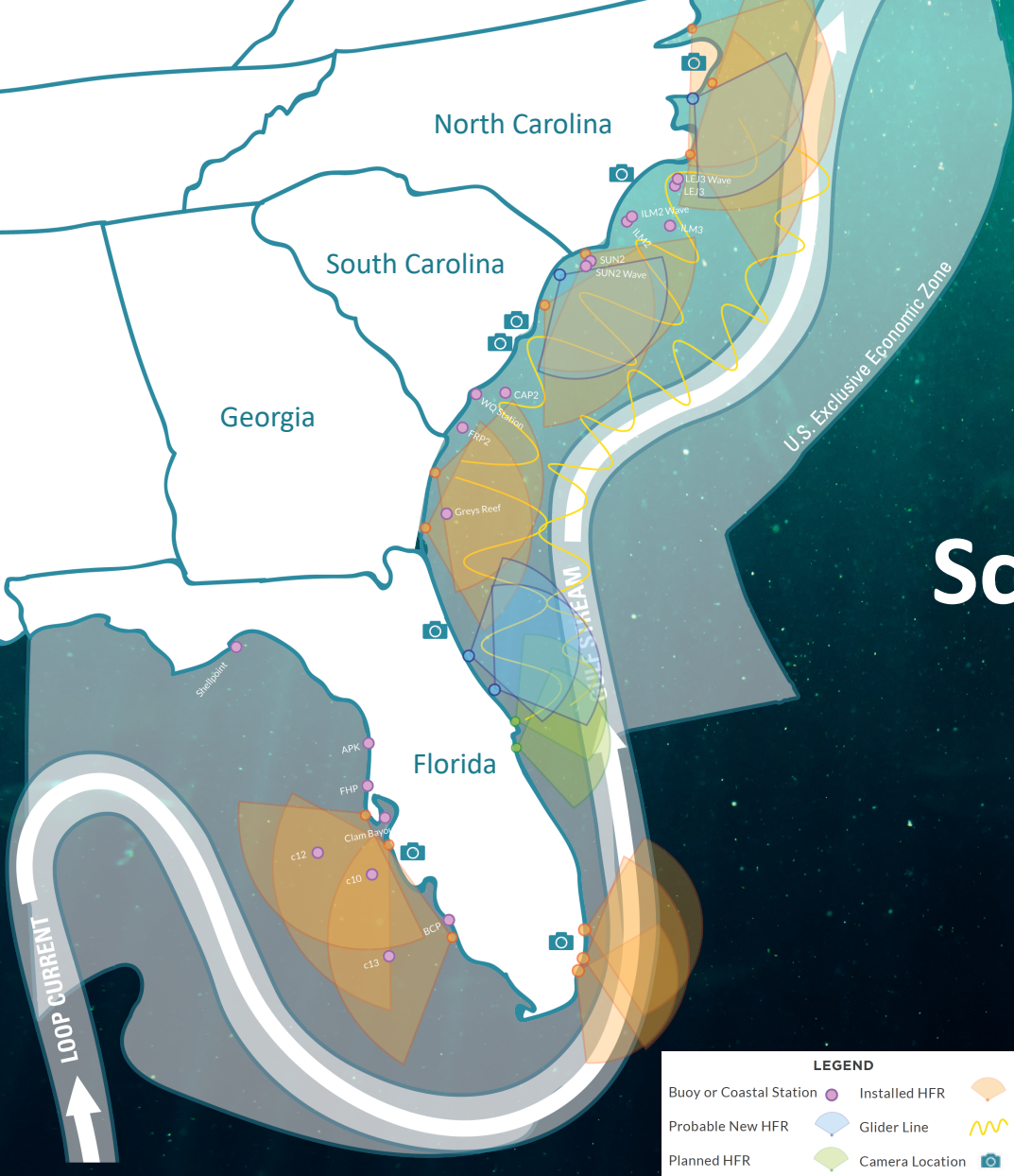
Looking Ahead



SMART
SEA LEVEL SENSORS

Team with Georgia Smart Sea Level Sensors Project to host sea level rise curriculum for 6th graders on the SECOORA website

4 part webinar series for teachers planned for September 2019



Science Committee

Nick Shay, Chair

SECOORA Annual Meeting

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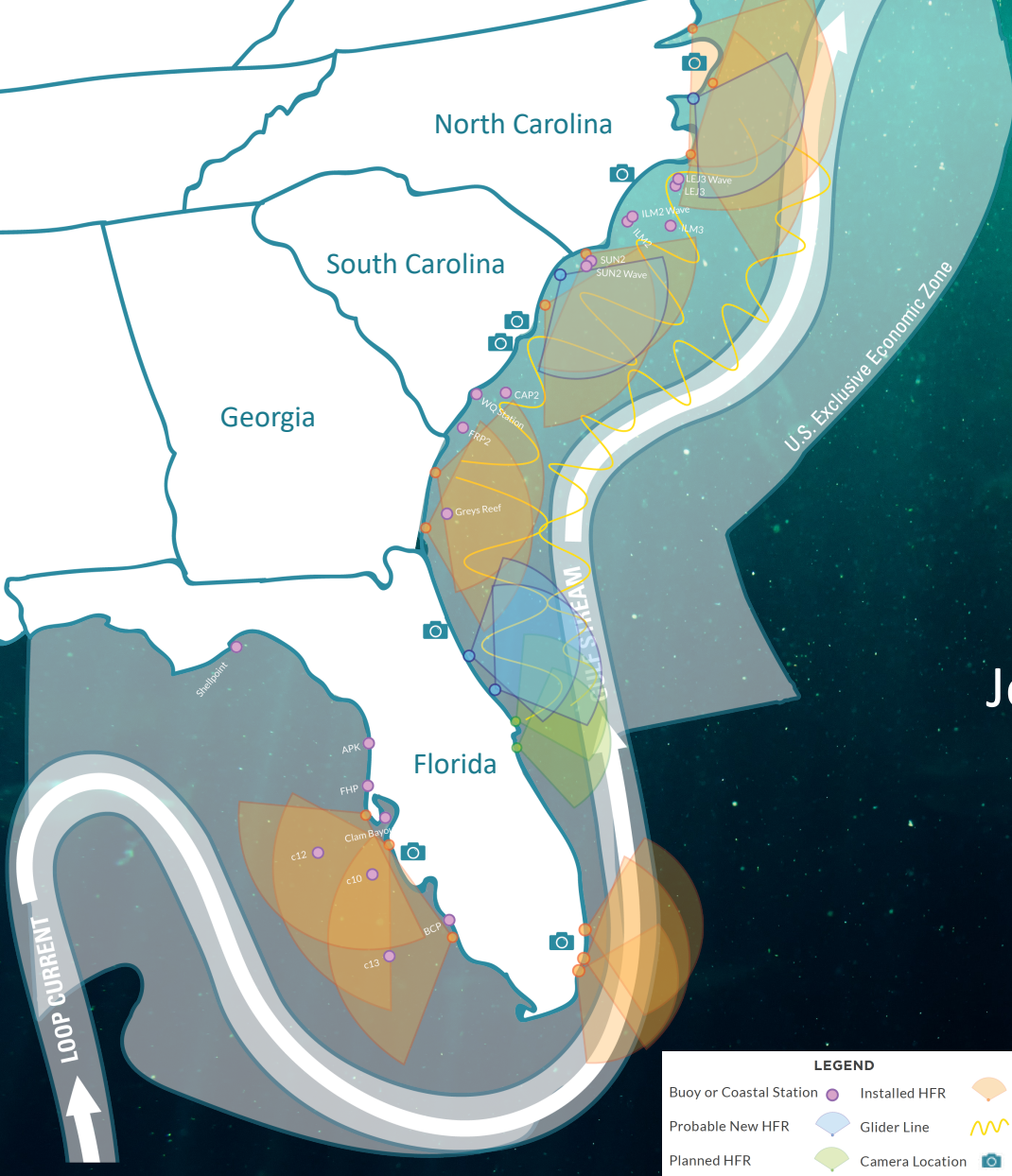
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SECOORA Science Committee

Name	Affiliation	State	Expertise
Nick Shay, Chair	UM	FL	Experimental and theoretical investigations of the ocean response and coupled air-sea interactions during strong atmospheric forcing events
Lynn Leonard	UNCW	NC	Coastal Hydrology and Sedimentology, ocean instrumentation
Vince Lovko	Mote	FL	UVs, HABs
Ruoying He	NCSU	NC	Coastal and ocean dynamics and modeling
Lena Schulze	JU	FL	Large scale ocean circulation, Ocean dynamics, Ocean instrumentation
Bill Savidge	UGA	GA	Estuarine water quality, continental shelf oceanography, development and application of new technologies for ocean observation
Chris Kalinowsky	GADNR	GA	Fisheries management and science, tagging, etc.
Nicole Elko	SC Beach Advocates	SC	Beach dynamics, beach re-nourishment, coastal policy
Tiffany Troxler	FIU	FL	Wetlands ecosystems ecology, sea level rise, climate change, and community resiliency

Science Committee Charge

- Support the SECOORA staff in development and maintenance of a RCOOS Plan for SECOORA. This plan will define, in broad terms, the observational, technical, scientific, and information delivery components of SECOORA's enterprise necessary to address the coastal ocean issues facing the SECOORA region. The RCOOS Plan should be kept consistent with national guidelines and the IOOS societal goals.
- Keep the SECOORA RCOOS Plan current, by modifying, refining, and adding to the existing plan as SECOORA efforts progress.
- Provide oversight for ensuring instrumentation and observation schemes in the SECOORA region are consistent with national and international Ocean Observing System scientific recommendations.
- Interface with other SECOORA committees to ensure fidelity of the RCOOS Plan with the broader SECOORA charge, such as service to stakeholders.
- The Committee, through its Chair, will provide guidance and review of science and observing related Request for Proposals, and input into proposals written on behalf of SECOORA as requested by the Executive Director.



Mini Proposal

Jennifer Dorton, SECOORA

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SECOORA Mini-Proposal

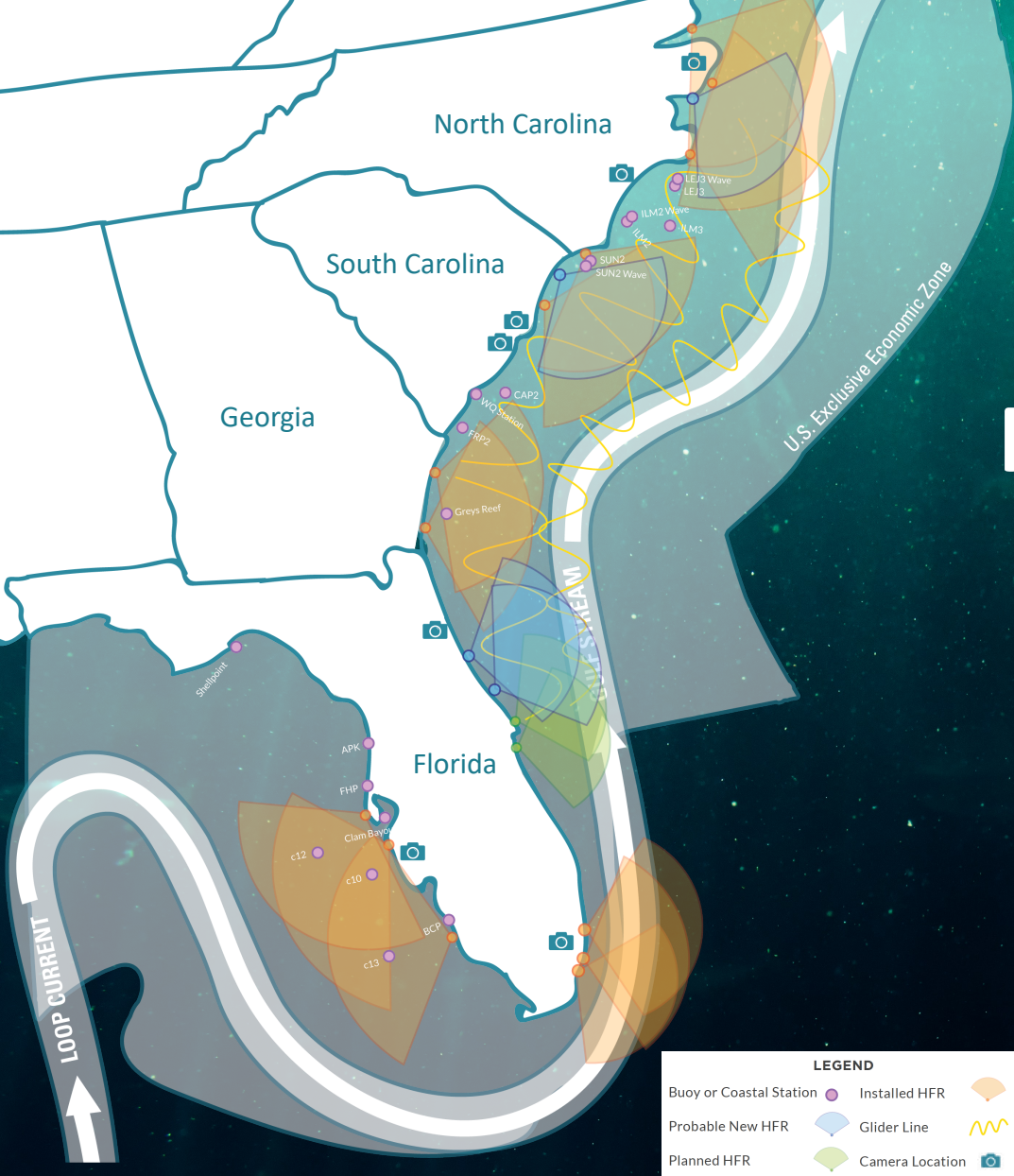
- SECOORA RFP - \$30,000 for a one year project to address environmental concerns in the region
 - Harmful Algal Blooms
 - Sound in the marine environment
 - Coral health
- 10 proposals submitted and 5 reviewers
- PI Eric Monti, University of South Carolina – Beaufort
 - *Integrating Biological Sound and Noise Measurements into Regional Coastal Ocean Observing Systems (RCOOS) in Estuaries of South Carolina*



IOOS 5 Year Federal Funding Opportunity Process Update

Debra Hernandez &
Jennifer Dorton

SECOORA



SECOORA Annual Meeting

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IOOS 5-year Proposal Process & Schedule

~~June 2019 Annual Meeting~~

- ~~• Vote on proposal process with full membership~~
- ~~• Terms of Reference for Expert Review Panel~~

June 2019 - September 2019

- Independent DMAC and PI Review
- Stakeholder assessment for RCOOS plan
- ~~• Solicit nominations and finalize membership of Expert Review Panel~~
- ? Conduct DMAC solicitation ?? **Select DMAC contractor**

September 2019 - December 2019

- RCOOS Plan(s) updated & finalized
- Draft solicitation for LOIs: Establish priorities for next 5-years
- Refine process and schedule for approval at ~~next in person~~ **December 2019** Board Meeting

January 2020 – May 2020

- Solicit nominations for Expert Review Panel

May 2020

- **Vote on proposal process with full membership**
- **Terms of Reference for Expert Review Panel finalized**
- Board Votes on ~~LOI~~ Expert Review Panel Membership

May 15 – July 15, 2020

- Open LOI process for 60 days

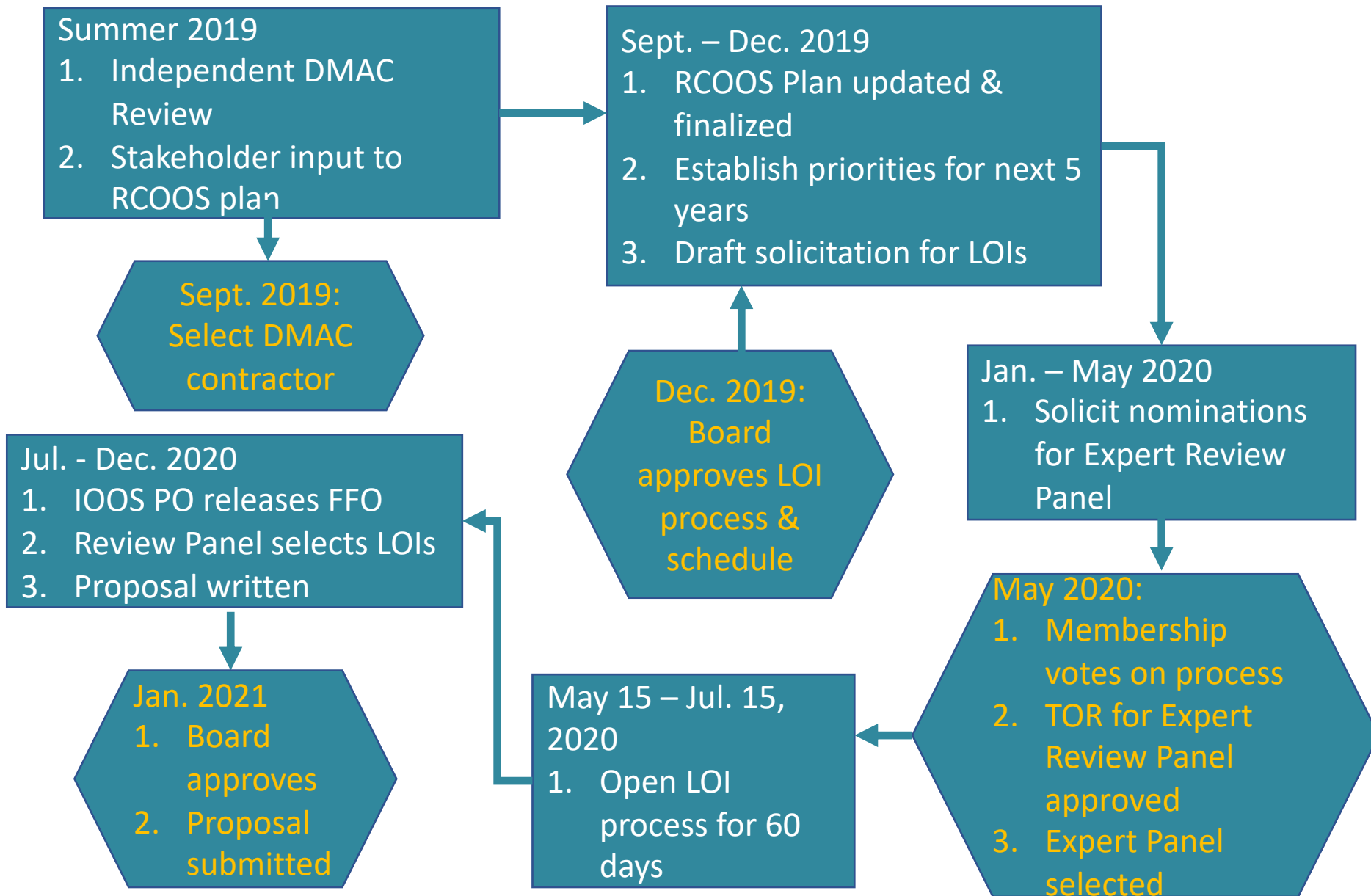
~~January 2020 – March 2020~~ **July 2020 – December 2020**

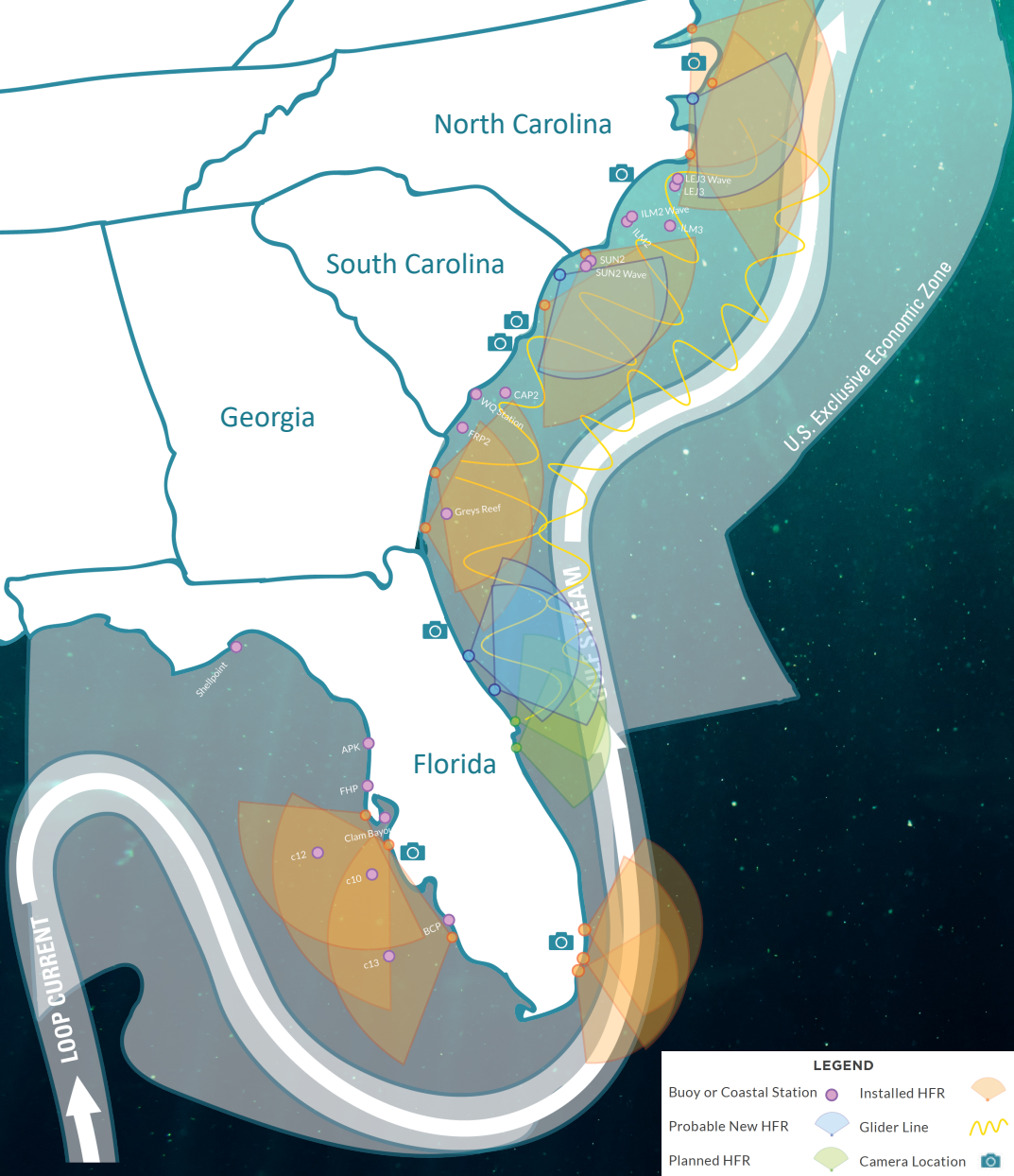
- IOOS PO Call for Proposals is released
- Review Panel Selects LOIs

~~March 2020 – June 2020~~

- Identify proposal Writing Team
- Write Proposal
- ~~• Fall 2020~~ **January 2021**
- Proposals are due

IOOS 5-year Proposal Process & Schedule





RCOOS Plan

Debra Hernandez &
Jennifer Dorton

SECOORA

SECOORA Annual Meeting

www.secoora.org/2019-annual-meeting

f t #SECOORA19

DMAC RFQ

- RFQ Issue Date: March 20, 2019
- Submission Deadline: May 22, 2019
- Period of Performance: June 1, 2021 – May 31, 2026*
- Two proposals submitted
- Four person review team:
 - SECOORA PI
 - NOAA IOOS
 - NOAA NCEI
 - other RA representative
- Reviews begin end of June, identify contractor by end of September

January 2019 Board Meeting

RCOOS Planning Session, January 16, 2019

- Recommendation: RCOOS Plan ~~≠~~ technology plans.
- RCOOS Plan should connect to theme areas and focus our next proposal.
- SECOORA staff, with the help of experts: Develop informal thematic white papers (as basis for RCOOS plan).
- RCOOS plan will include:
 - environmental concerns
 - technology that can address the concern
- RCOOS plan will be drafted by September 2019.

RCOOS Plan Overview

Objective

- Presents SECOORA priorities for contributing to our improved understanding, management, and sustainment of valued coastal ocean resources.
- Document Sections
 1. Overview
 2. Focus Areas
 3. RCOOS Technologies
- Outcome:
 - This plan will provide **guidance for SECOORA future research and technology investments** and guide 2020 IOOS proposal development process.

Audience

- **SECOORA staff and Board of Directors:**
 - to establish **priorities** for funding decisions
- **IOOS Program Office:**
 - to inform and meet **certification requirements**
- **SECOORA members:**
 - to articulate **priorities and provide guideposts** for future activities
- **Regional stakeholders and potential members:**
 - to **demonstrate capabilities and describe connections** to regional needs and priorities

Document Timeline – Completed Actions

Feb. 2019:

- Contracted w/ Megan Trembl

Apr. 2019:

- Ecosystems focus areas sent to reviewers for initial feedback

May 2019:

- Integrated reviewer comments,
- Developed Marine Operations & Coastal Hazards and Climate Variability focus areas
- Draft document to:
 - Board
 - Subject Matter Experts
- Reviewer feedback incorporated.

Jun. 10, 2019:

- Draft document sent to Pls

Timeline – Upcoming Actions

Jun. 18:

- Present four focus areas at Annual Members and Stakeholders meeting
 - Storm Tracking and Forecasting
 - Coastal Flooding and Sea Level Rise
 - Public Health
 - Fisheries

Jun. 30:

- Receive edits/comments from PIs

Jul.:

- Integrate feedback from Annual meeting and PIs
- Send Plan to Science Committee

Jul. – Sept.:

- Incorporate feedback from the Science Committee
- Develop online surveys to gather stakeholder feedback

Timeline – Upcoming Actions

October 1 - 14:

- Integrate survey responses into document

October 15 – 31:

- Final Board Review

November 1 - 10:

- Integrate Board feedback

November 15:

- Finalize RCOOS Plan

Focus Areas and Research Themes

- **Ecosystems: Living Marine Resources and Water Quality Fisheries**

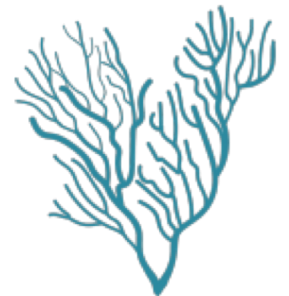
- Fisheries
- Ocean Sound
- Public Health
- Coral Health
- Coastal and Ocean Acidification

- **Marine Operations**

- Marine Safety
- Rip Currents
- Offshore Resources

- **Coastal Hazards and Climate Variability**

- Storm Tracking and Forecasting
- Coastal Flooding and Sea Level Rise



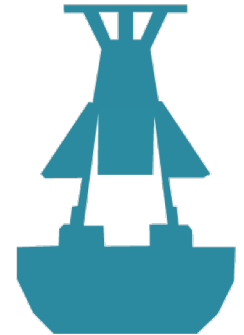
Structure of Research Themes

- Challenges:
 - defines key management challenges
- Priority Geographic Area(s):
 - identifies critical geographic areas
- Partner Activities:
 - examples of related efforts by state, federal, and NGO partners
- Core Variables Required:
 - core variables as defined by NOAA IOOS with other variables identified as needed
- Current SECOORA Investments:
 - funded RCOOS components
- Additional SECOORA Investment Opportunities:
 - needs defined by stakeholder engagement, subject matter expert discussion, and previous observing platform gap analyses

RCOOS Technologies

- Observing

- Moored Stations
- Coastal Stations
- Autonomous Underwater Vehicle Observatory (gliders)
- High Frequency Radar
- Web Cameras
- Unmanned Aircraft Systems
- Emerging Technologies



- Modeling

- Data Management and Communications

- Products

- Outreach and Education



Planning for 2021 - 2026

- RCOOS plan will guide our next proposal writing process.
- Potential PIs should review the Plan and assure their LOI/proposal aligns with SECOORA priorities.
- Process for setting Priorities
 - Evaluate existing investments (develop metrics?)
 - Prioritize additional investment opportunities

Board Feedback

1. Significant gaps in focus areas or research themes?
2. Are these focus areas equal?
 - Should funds be used equally between all 3?
3. What are the priority investments:
 - Observations?
 - Data management support?
 - Modeling and forecasting?
 - Research/science investment?
 - Education and outreach?

Focus Areas and Research Themes

- **Ecosystems: Living Marine Resources and Water Quality Fisheries**

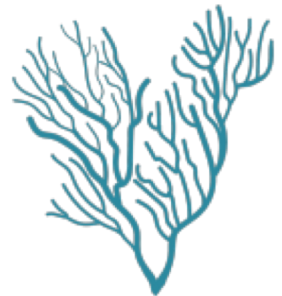
- Fisheries
- Ocean Sound
- Public Health (HABS, Beach & Shellfish WQ)
- Coral Health
- Coastal and Ocean Acidification

- **Marine Operations**

- Marine Safety
- Rip Currents
- Offshore Resources (Wind, O&G, Sand, Aquaculture)

- **Coastal Hazards and Climate Variability**

- Storm Tracking and Forecasting
- Coastal Flooding and Sea Level Rise

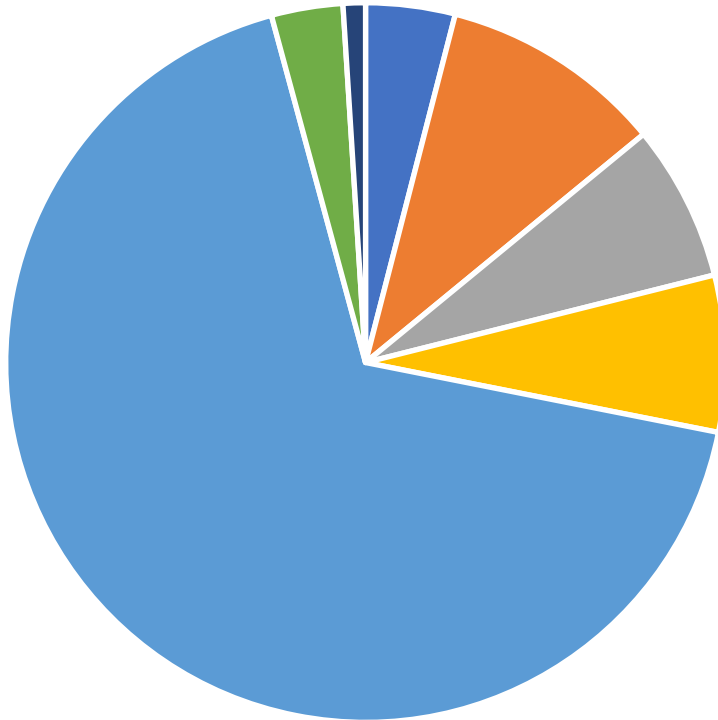


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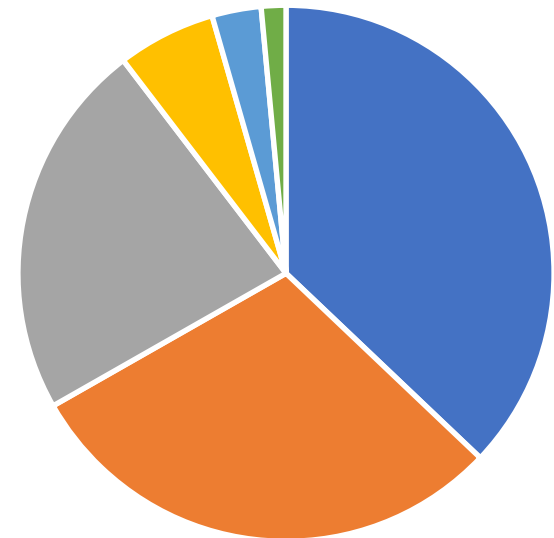
Current Expenditures

2018 Percentage



- Biological - 4%
- DMAC - 7%
- Observations - 67.4%
- Resiliency - 1%
- Program dev. - 10%
- Models & Products - 7%
- Ed. & Outreach 3.2%

Obs. Percentage



- New - 25%
- Moorings & Coastal stations - 20%
- HFR - 15.4%
- Gliders - 4%
- Acoustic receivers - 2%
- Webcams - 1%