

# SECOORA Board Meeting

May 18, 2020

*Please mute yourself!  
Only Board Members and staff on video.*

SECOORA Annual Meeting



[www.secoora.org](http://www.secoora.org)



**SECOORA**  
Southeast Coastal Ocean Observing  
Regional Association



**IOOS**  
Integrated Ocean  
Observing System

# Board Meeting Agenda

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**9:00 – 9:05 AM Overview of Technology** - Brett Burk, Burk and Associates, Inc.

**9:05 – 9:10 AM Welcome** - Rick DeVoe, SECOORA Chair

- Introductions / Roll Call
- Approval of Agenda
- Minutes Approval – April 6, 2020

**9:10 – 9:15 AM Treasurer Report** - Quinton White, SECOORA Treasurer

- Review of FY20 Budget as of March 31, 2020
- Review of Membership Dues Report as of March 31, 2020

**9:15 – 9:30 AM SECOORA Updates** - Debra Hernandez, SECOORA

**9:30 – 9:50 AM Regional Coastal Ocean Observing System Update –**  
Jennifer Dorton, SECOORA

**9:50 – 10:00 AM Other Business and Adjourn** - Rick DeVoe, SECOORA Chair



# Vote: Minutes Approval – April 6, 2020

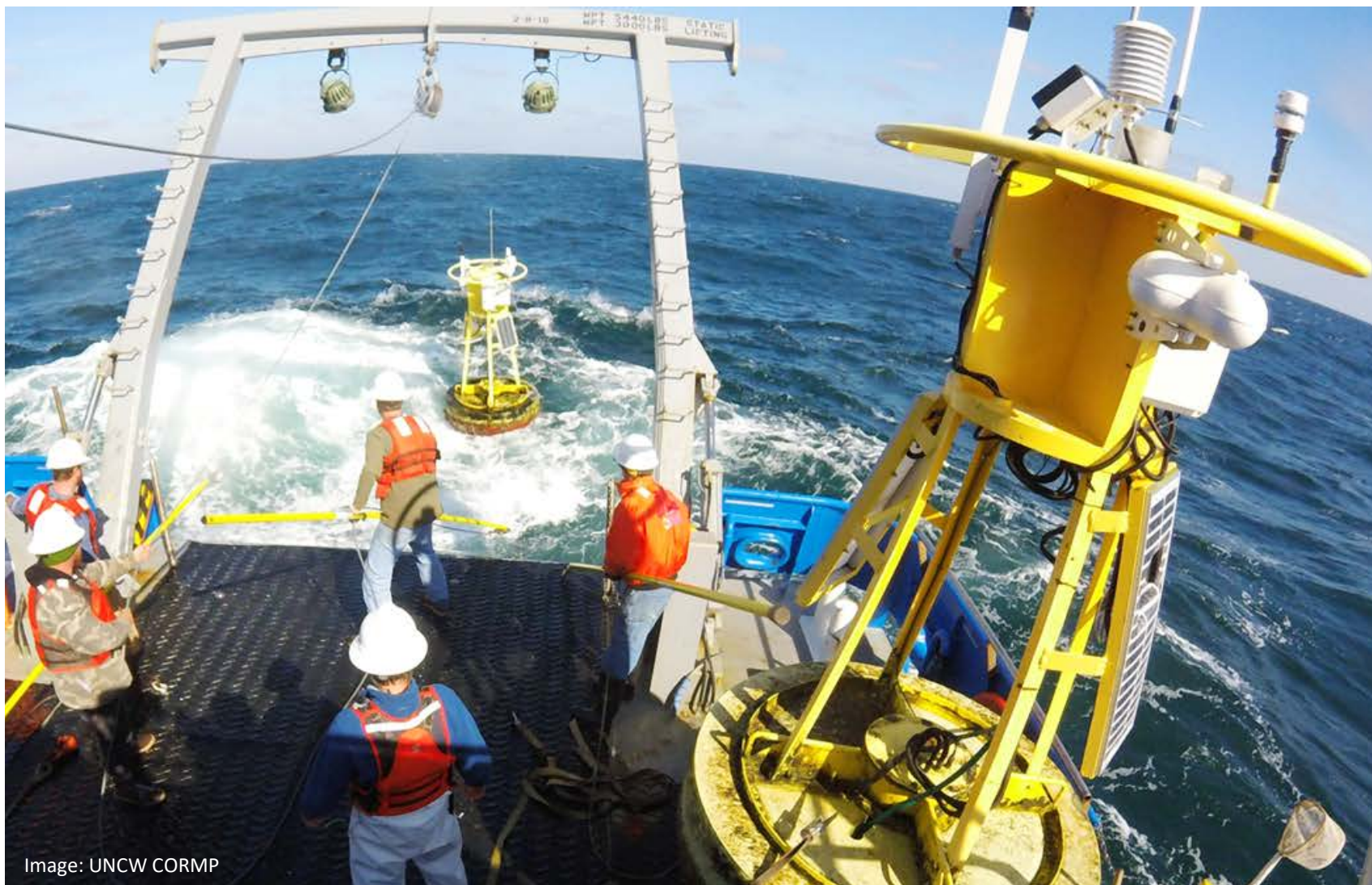


Image: UNCW CORMP



# Treasurer Report

Quinton White, Treasurer



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# Finance & Audit Committee

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## Members:

- Quinton White (Treasurer)
- Conrad Lautenbacher
- George Maul
- Peter Hamilton
- Jeff Copeland



# Treasurer Report

## Review of Financial Report as of March 31, 2020

	Last Year Actual Mar. 2019	Current Year Actual Mar. 2020	Annual Budget	Budget Balance Remaining as of 3/31/20	% To Be Collected / % of Expenses Remaining as of 3/31/20
<b>INCOME</b>					
Core Grant Revenue	60,044.39	24,881.93	507,621.00	173,730.65	
Membership Dues	250.00		36,500.00	-518.21	
IDC Revenue		1,915.43		-46,605.15	
Other Revenue	2,000.00	328.03	104,132.00	99,276.39	
<b>TOTAL INCOME</b>	<b>\$62,294.39</b>	<b>\$27,125.39</b>	<b>\$648,253.00</b>	<b>\$225,883.68</b>	<b>34.84%</b>
<b>EXPENSES</b>					
Personnel Expenses			500,000.00	151,992.56	30.40%
Salaries	27,859.44	30,610.89			
Benefits & Mandates	7,396.47	7,999.84			
Contract Services	524.50	774.49	38,000.00	9,010.43	23.71%
Travel	3,776.23	1,332.26	59,000.00	16,174.99	27.42%
Expendable Supplies	367.35	-3878.22	6,500.00	3,328.62	51.21%
Dues & Subscriptions			10,000.00	-150.00	-1.50%
Other Expense					
Tort Liability Insurance	229.42		2,753.00	114.71	4.17%
Office Expenses	836.11	230.00	10,000.00	4,202.14	42.02%
Other / Contingency expenses	34.00	17.00	2,000.00	1,552.53	77.63%
E & O Committee Budget	500.00	1,500.00	20,000.00	17,000.00	85.00%
<b>TOTAL EXPENSES</b>	<b>\$41,523.52</b>	<b>\$38,586.26</b>	<b>\$648,253.00</b>	<b>\$203,225.98</b>	<b>31.35%</b>



# Treasurer Report Review of Subcontracts as of April 5, 2020

## SEE HANDOUT

	A	B	C	D	E	F	G	H	I	J
1	Contract Number	Institution	PI	Subcomponent	Total Award Amount	Invoices Received To Date	Amount Remaining in Award	Start Date	End Date	Extension
2	<b>IOOS YEAR 1, 2, 3, &amp; 4</b>									
3	IOOS.16(028)UNCW.LL.OBS.1	UNCW	Lynn Leonard	OBS	\$1,481,900.00	\$1,119,917.63	\$361,982.37	6/1/16	5/31/21	
4	IOOS.16(028)USF.BW.OBS-MOOR.1	USF	Bob Weisberg	OBS-MOOR	\$1,010,380.00	\$667,014.23	\$343,365.77	6/1/16	5/31/21	
5	IOOS.16(028)USF.ML.OBS.1	USF	Mark Luther	OBS	\$203,000.00	\$197,673.47	\$5,326.53	6/1/16	5/31/21	
6	IOOS.16(028)UM.LS.OBS.1	UM	Nick Shay	OBS	\$523,320.00	\$309,862.71	\$213,457.29	6/1/16	5/31/21	
7	IOOS.16(028)FIT.GM.OBS.3	FIT	Steve Lazaras	OBS	\$167,532.00	\$30,442.12	\$137,089.88	6/1/18	5/31/19	05/31/20
8	IOOS.16(028)USC.GV.OBS.1	USC	George Voulgaris	OBS	\$363,716.00	\$310,504.12	\$53,211.88	6/1/16	5/31/21	
9	IOOS.16(028)UGA/SKIO.DS.OBS.1	UGA/SKIO	Dana Savidge	OBS	\$363,800.00	\$210,425.08	\$153,374.92	6/1/16	5/31/21	
10	IOOS.16(028)UGA/SKIO.DS.OBS.PUR.3	UGA/SKIO	Dana Savidge	OBS	\$190,275.00	\$166,902.64	\$23,372.36	6/1/18	5/31/19	05/31/20
11	IOOS.16(028)UNCCH.HS.OBS.1	UNCCH	Harvey Seim	OBS	\$383,567.00	\$330,390.00	\$53,177.00	6/1/16	5/31/21	
12	IOOS.16(028)ECU/CSI.MM.OBS.4	ECU	Mike Muglia	OBS	\$68,393.00	\$483.23	\$67,909.77	6/1/19	5/31/21	
13	IOOS.16(028)USF.BW.OBS-HFR.1	USF	Bob Weisberg	OBS-HFR	\$474,520.00	\$338,545.69	\$135,974.31	6/1/16	5/31/21	
14	IOOS.16(028)SCDNR.DS.OBS.1	SCDNR	Denise Sanger	OBS	\$130,000.00	\$93,153.28	\$36,846.72	6/1/16	5/31/21	
15	IOOS.16(028)UGA/SKIO.CE.GLD.1	UGA/SKIO	Catherine Edwards	GLD	\$124,415.00	\$85,857.22	\$38,557.78	6/1/16	5/31/21	
16	IOOS.16(028)GATECH.FZ.GLD.1	GATECH	Fumin Zhang	GLD	\$91,286.00	\$91,286.00	\$0.00	6/1/16	5/31/21	
17	IOOS.16(028)UNCCH.HS.GLD.1	UNCCH	Harvey Seim	GLD	\$105,381.00	\$59,329.65	\$46,051.35	6/1/16	5/31/21	
18	IOOS.16(028)NCSU.RH.GLD.1	NCSU	Ruoying He	GLD	\$53,349.00	\$24,501.38	\$28,847.62	6/1/16	5/31/19	05/31/20
19	IOOS.16(028)USF.CL.GLD.1	USF	Chad Lembke	GLD	\$122,803.00	\$57,257.78	\$65,545.22	6/1/16	5/31/20	
20	IOOS.16(028)USC.DP.MOD.1	USC	Dwayne Porter	MOD	\$406,000.00	\$329,632.75	\$76,367.25	6/1/16	5/31/21	
21	IOOS.16(028)NCSU.RH.MOD.1	NCSU	Ruoying He	MOD	\$527,800.00	\$416,932.23	\$110,867.77	6/1/16	5/31/21	
22	IOOS.16(028)UGA.SN.OA.1	UGA/OA	Scott Noakes	OA	\$190,061.00	\$123,767.99	\$66,293.01	6/1/16	5/31/21	
23	IOOS.16(028)FLFWCC.KH.OBS.4	FL FWCC	Katherine Hubbard	HABS	\$200,000.00	\$0.00	\$200,000.00	6/1/19	5/31/21	
24	IOOS.16(028)MOTE.JL.OBS.4	MOTE	Jim Locascio	AC	\$190,000.00	\$0.00	\$190,000.00	6/1/19	5/31/21	
25	IOOS.16(028)GADNR.CK.ATN.1	GADNR	Chris Calloway	ATN	\$78,525.00	\$65,230.67	\$13,294.33	10/15/18	10/14/19	10/14/20
26	<b>HURRICANE SUPPLEMENTAL - REPAIRS</b>									
27	IOOS.19(015)UNCW.LL.SUP.REPAIRS.1	UNCW	Lynn Leonard	REPAIRS	\$29,990.00	\$29,989.23	\$0.77	4/1/19	3/31/21	
28	IOOS.19(015)USF.ML.SUP.REPAIRS.1	USF	Mark Luther	REPAIRS	\$18,704.00	\$0.00	\$18,704.00	4/1/19	3/31/21	
29	IOOS.19(015)UGA.DS.SUP.REPAIRS.1	UGA/SKIO	Dana Savidge	REPAIRS	\$33,772.00	\$4,086.62	\$29,685.38	4/1/19	3/31/21	
30	IOOS.19(015)UNCCH.HS.SUP.REPAIRS.1	UNCCH	Harvey Seim	REPAIRS	\$16,127.00	\$13,872.00	\$2,255.00	4/1/19	3/31/21	
31	IOOS.19(015)UM.NS.SUP.REPAIRS.1	UM	Nick Shay	REPAIRS	\$499,957.00	\$47,328.66	\$452,628.34	4/1/19	3/31/21	
32	IOOS.19(015)USC.GV.SUP.REPAIRS.1	USC	George Voulgaris	REPAIRS	\$20,785.00	\$1,224.72	\$19,560.28	4/1/19	3/31/21	
33	IOOS.19(015)USF.RW.SUP.REPAIRS.1	USF	Bob Weisberg	REPAIRS	\$99,413.00	\$79,805.94	\$19,607.06	4/1/19	3/31/21	
34	<b>HURRICANE SUPPLEMENTAL - COMT</b>									
35	IOOS.19(002)FS.RH.SUP.COMT.1	Fathom Science	Ruoying He	COMT	\$689,755.00	\$228,993.77	\$460,761.23	4/1/19	3/31/22	
36	Second Creek Consulting	Second Creek	Charlton Galvarino	COMT	\$77,000.00	\$8,580.00	\$68,420.00	4/1/19	3/31/22	
37	<b>HURRICANE SUPPLEMENTAL - GLIDER</b>									
38	IOOS.19(191)SKIO.CE.SUP.GLIDER.1	UGA/SKIO	Catherine Edwards	GLIDER	\$70,000.00	\$13,840.67	\$56,159.33	7/1/19	6/30/21	
39	IOOS.19(191)USF.CL.SUP.GLIDER.1	USF	Chad Lembke	GLIDER	\$70,000.00	\$24,339.53	\$45,660.47	7/1/19	6/30/21	
40	IOOS.19(191)UNCCH.HS.SUP.GLIDER.1	UNCCH	Harvey Seim	GLIDER	\$40,000.00	\$6,155.19	\$33,844.81	7/1/19	6/30/21	
41	<b>SECOORA Contracts</b>									
45	Axiom Data Science- DMAC, OTT, HABS/Acoustic Services - Year 4				\$239,716.00	\$110,240.99	\$129,475.01	6/1/19	5/31/21	
46	Filipe Fernandez (Curate IOOS Open Source Depositories) - Year 4				\$77,858.00	\$58,393.50	\$19,464.50	6/1/19	5/31/21	
48	Megan Trembl - ATN Year 3				\$10,000.00	\$4,913.50	\$5,086.50	2/15/18	8/15/19	
49	Fisheries Data Solutions, LLC - ATN Year 4				\$73,525.00	\$15,932.76	\$57,592.24	10/15/18	10/14/19	10/14/20
50	Megan Trembl - SECOORA Contractor				\$70,000.00	\$12,163.00	\$57,837.00	2/1/20	7/1/20	
51	Garrison Hefner - Glider work				\$3,600.00	\$150.00	\$3,450.00	1/15/20	6/15/20	

# Treasurer Report

## Review of Membership P&L as of March 31, 2020

### SECOORA MEMBERSHIP REVENUES AND EXPENSES - CASH ON HAND REPORT

SEE HANDOUT

	FY08 - FY16	FY17	FY18	FY19	FY20 July 1, 2019 to March 31, 2020	Grand Total
<b>Revenue</b>						
Membership Dues	355,000.00	38,500.00	37,450.00	36,432.50	37,000.00	
Registration / Meeting Sponsorships	12,469.00	500.00		1,559.44		
Corporate Sponsorship			7,379.55	1,500.00	4,500.00	
Interest Earned		21.15		4.99	186.06	
Miscellaneous	4,665.30	26,591.77	2,128.98	22.22	18.21	
<b>Total Revenue</b>	<b>372,134.30</b>	<b>65,612.92</b>	<b>46,958.53</b>	<b>39,519.15</b>	<b>41,704.27</b>	<b>565,929.17</b>
<b>Expenses</b>						
5% DH Salary and Benefits	39,401.32	6,886.24	6,596.61	7,416.46	5,560.71	65,861.34
Travel / Meeting	46,527.77	13,536.96	8,124.78	9,324.94	5,986.03	83,500.48
IOOS Association Dues	3,500.00	3,000.00	2,000.00	1,000.00	1,000.00	10,500.00
Expendable Supplies	1,790.95	563.97		873.18	130.00	3,358.10
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	1,901.50			500.00		2,401.50
Bank Fees	414.09				30.00	444.09
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				3,461.04	1,554.95	5,015.99
Data Challenge Annual Awards			7,500.00			7,500.00
Vembu Subramanian Scholarship Fund Matching		16,287.19	10,349.00			26,636.19
<b>Total Expenses</b>	<b>101,401.37</b>	<b>39,228.36</b>	<b>35,140.76</b>	<b>22,575.62</b>	<b>14,261.69</b>	<b>212,607.80</b>
<b>Net Income</b>	<b>270,732.93</b>	<b>26,384.56</b>	<b>11,817.77</b>	<b>16,943.53</b>	<b>27,442.58</b>	<b>353,321.37</b>
<b>TARGET RESERVE FUND (SECOORA Operating Expenses)</b>						<b>280,000.00</b>



# SECOORA Updates

Debra Hernandez  
SECOORA Executive Director

SECOORA Annual Meeting



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# Proposals

## **Launching WebCOOS: Webcams for Coastal Observations and Operational Support**

NOAA IOOS Ocean Technology Transition Project Proposals

Proposed Amount: \$1.15M

## **Integrated Human-Ecological Approach to Assess Coastal and Ocean Acidification in the US Southeast**

NOAA Ocean Acidification Program

Proposed Amount: \$1.05m

## **Deploy a Waveglider to Survey Two of the Five SAFMC Spawning Special Management Zones**

NOAA Office of Marine and Aviation Operations (internal call)

Proposed Amount: \$397,915

## **Demonstrating an Estuarine Soundscape Observatory Network in the Southeast: Understanding baseline rhythms of biological sounds and correlations to traditional biodiversity measurements to support long-term sustainable monitoring**

NOAA (internal call)

Proposed Amount: \$101,464



# SECOORA's Response to IOOS FY 2020 Notice of Funding Opportunity

## On Track

- Comprehensive Review Panel confirmed
- 25 Subject Matter Expert Reviews confirmed
- Letters of Intent are due May 26, 2020

## Delayed

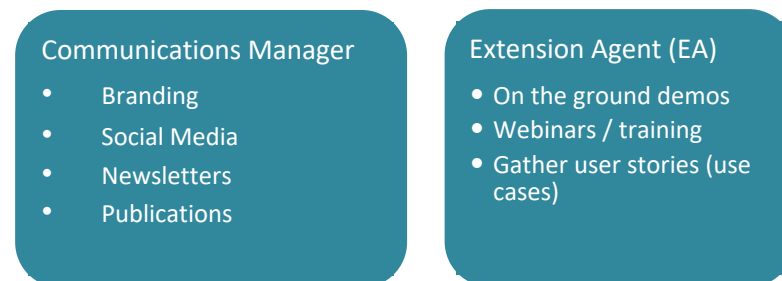
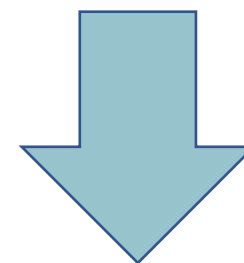
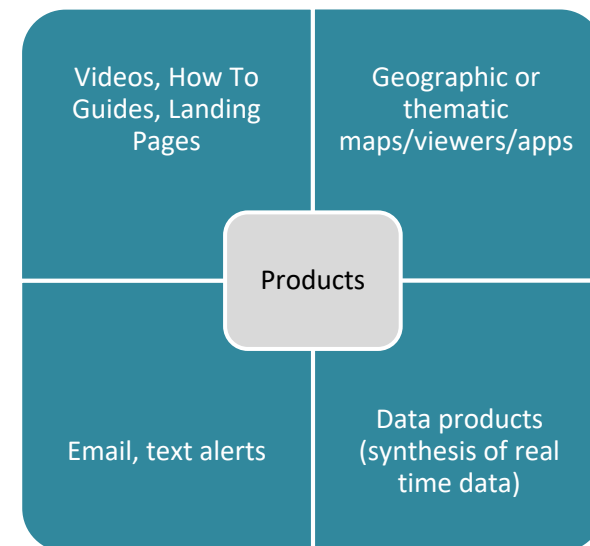
- IOOS FY 2020 Notice of Funding Opportunity expected to be announced in June 2020

## New Developments

- Ecsion software to submit and review proposals







# Product Development

# SECOORA Strategic Plan: 2016-2021

## Need to Update in 2020

### 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:

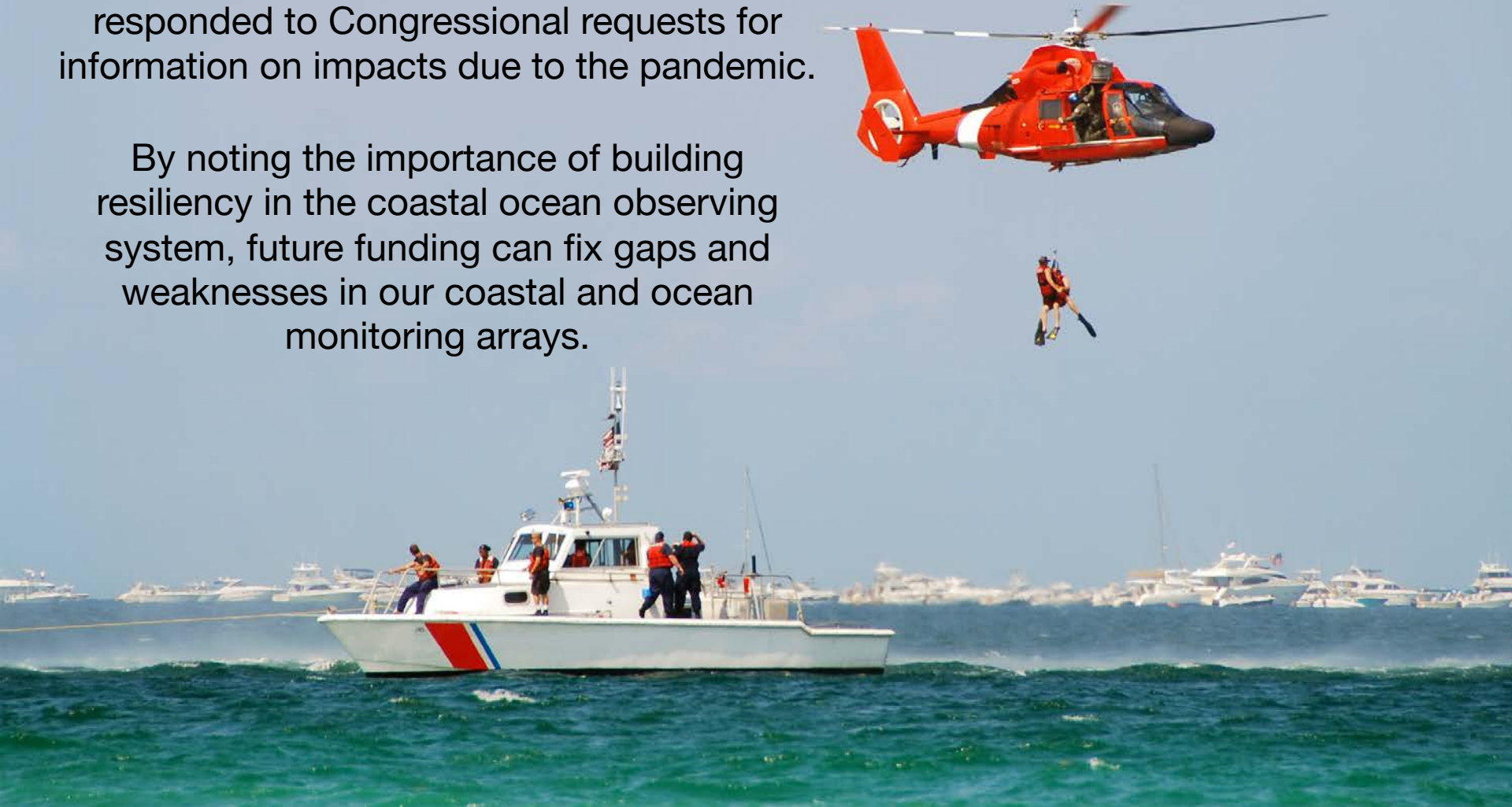
- Expand & diversify funding that advances SECOORA's mission
- Ensure SECOORA's operational & governance structure enables us to achieve our vision
- Have an effective marketing and out-reach strategy
- Ensure effective implementation of all grants, including the IOOS grant

# COVID-19 Impacts and Stimulus Funding

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Working together through the IOOS Association, the regional networks have responded to Congressional requests for information on impacts due to the pandemic.

By noting the importance of building resiliency in the coastal ocean observing system, future funding can fix gaps and weaknesses in our coastal and ocean monitoring arrays.





# Regional Coastal Ocean Observing System Update

Jennifer Dorton  
SECOORA Deputy Director



SECOORA Annual Meeting



[www.secoora.org](http://www.secoora.org)



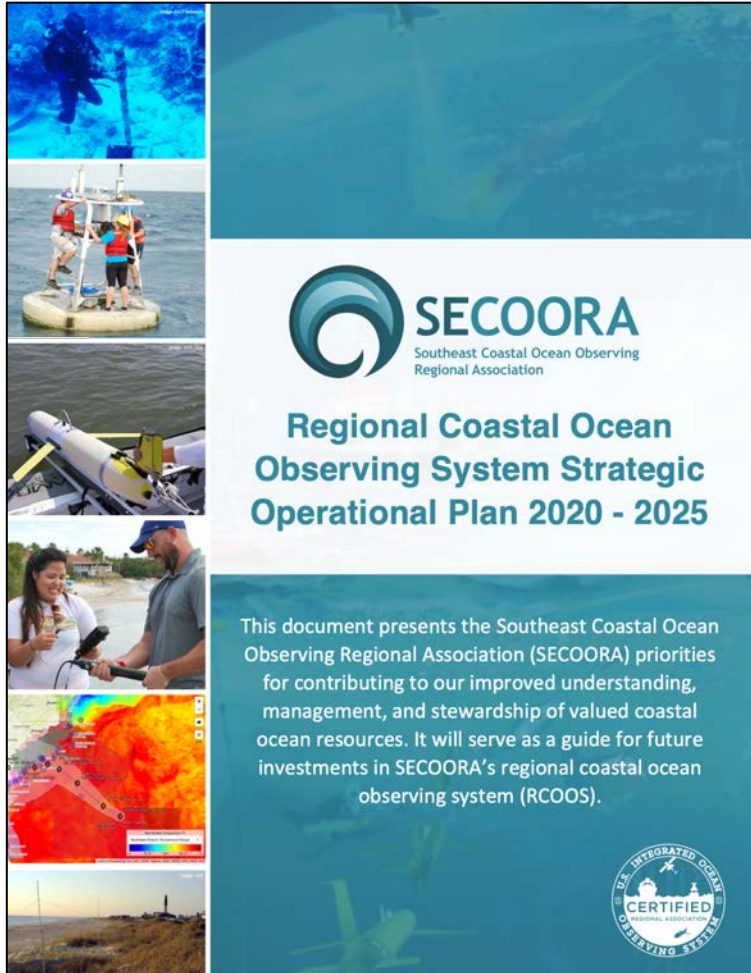
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# Regional Coastal Ocean Observing System Plan



- Finalized December 2019
- Guidance for SECOORA future research and technology investments and 2020 IOOS proposal development.

## Focus Areas



**Marine Operations**  
Marine Safety; Rip  
Currents; Offshore  
Resources



**Ecosystems: Living  
Marine Resources and  
Water Quality Fisheries**  
Fisheries; Ocean Sound;  
Public Health; HABs; Coral  
Health; Coastal and Ocean  
Acidification



**Coastal Hazards and  
Climate Variability**  
Storm Tracking and  
Forecasting; Coastal Flooding  
and Sea Level Rise

<https://secoora.org/regional-coastal-ocean-observing-system-strategic-operational-plan/>

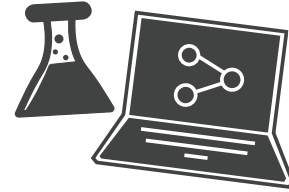
# Regional Coastal Ocean Observing System Plan

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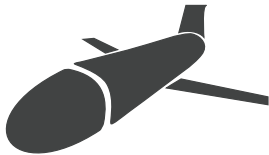
## Data Management and Communications

Provide seamless access to regional data. Ensure data are made available in standardized formats. Real-time data are provided via the SECOORA data portal.



## Products

Transform raw and/or processed data into useful and meaningful decision-making information products and tools.



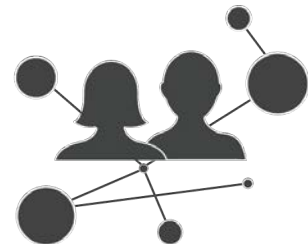
## Observing System

Sustain, expand, and modernize observing platforms and sensors.



## Modeling

Provide a numerical modeling framework (regional to sub-regional scale models).



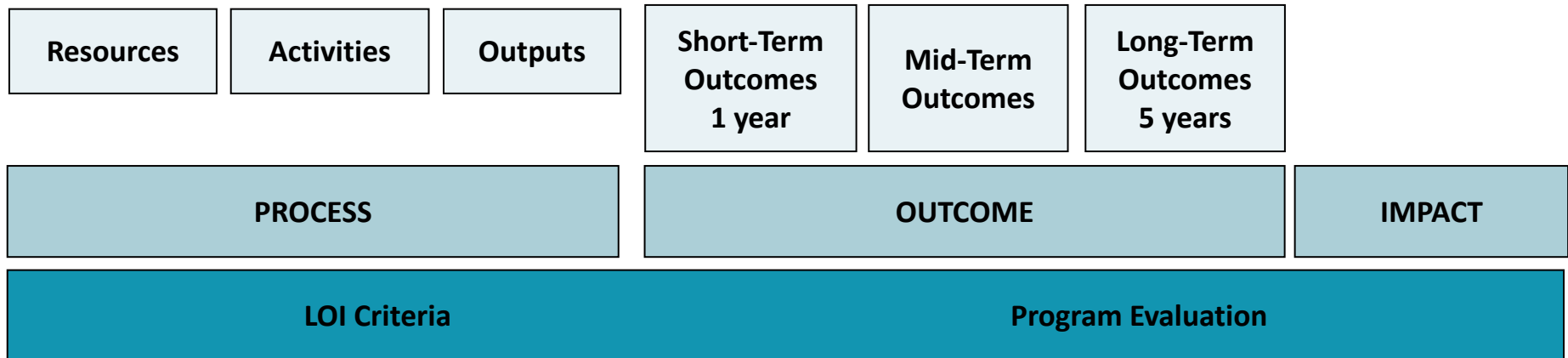
## Stakeholder Engagement and Outreach

Connect end users to SECOORA data, products, and services through effective outreach and education.



# Metrics

- Science Committee is assisting with metrics development for implementation in 2021-2026 funding period
- Link metrics to the RCOOS Goals
  - Assures programmatic goals are met

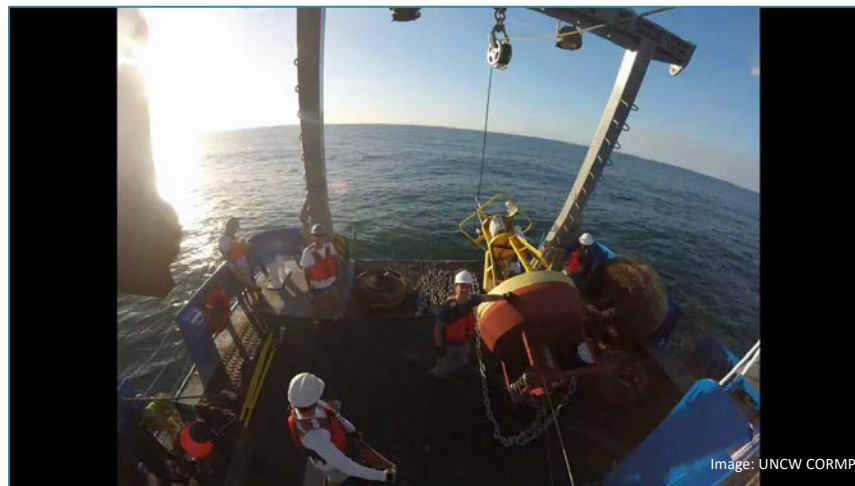


# RCOOS COVID-19 Impacts

## Reporting COVID impacts to the IOOS office

### In Situ Impacts

- Ship access
- Travel
- Site access
- Instrument calibrations
- Permitting delays



### Modeling, Glider, and DMAC

- Less impacted
- Glider instrument calibrations will be an issue soon



<https://secoora.org/covid-19-impacts-coastal-ocean-observing/>

# Hurricane Supplemental Repairs

Project Duration: April 1, 2019 - March 31, 2021

## High Frequency Radar Repairs



THE UNIVERSITY  
of NORTH CAROLINA  
at CHAPEL HILL

HATY antenna repair: 100%  
complete

HATY shed repair: 75% complete



Skidaway Institute  
of Oceanography  
UNIVERSITY OF GEORGIA

JEK repairs: 0% complete

CAT trailer repairs: 50% complete



GTN and CSW repairs: 0%  
complete

UNIVERSITY OF MIAMI  
ROSENSTIEL  
SCHOOL of MARINE &  
ATMOSPHERIC SCIENCE



STF repairs: 95% complete  
DN and VIR: 0% complete



## Mooring Repairs



100% complete



UNIVERSITY OF  
SOUTH FLORIDA  
College of MARINE SCIENCE

Moorings: 67% complete

Coastal Stations: 50% complete



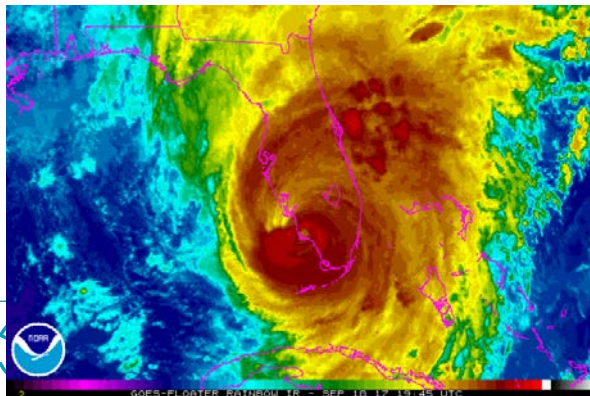
Image: UNCW CORMP





## Hurricane Glider Supplemental

Project duration: July 1,  
2019 – June 30, 2021



- **Partners:** NOAA AOML, SECOORA, MARACOOS, CariCOOS, GCOOS, US Navy, Shell and others
- **Mission:** deploy gliders during hurricane season to monitor ocean heat content, stratification, and variability on the shelf and slope along the southeastern U.S.
- **Goal:** work with NOAA and Navy partners to evaluate the impacts of hurricane glider data on operational ocean and tropical cyclone forecasting
- SECOORA conducting two 4-6 week deployments annually
- Currently planning 2020 glider missions

# Coastal and Ocean Modeling Testbed Supplemental

Project duration: April 1, 2019 – June 30, 2022

## Goal

Develop an integrated coastal water predictive capability to deliver new water intelligence products and information vital for decision making both during high-impact events, such as hurricanes, nor'easters, and storm surge, and for routine water management.

## Locations

Albemarle-Pamlico Sound, NC and St. John's River

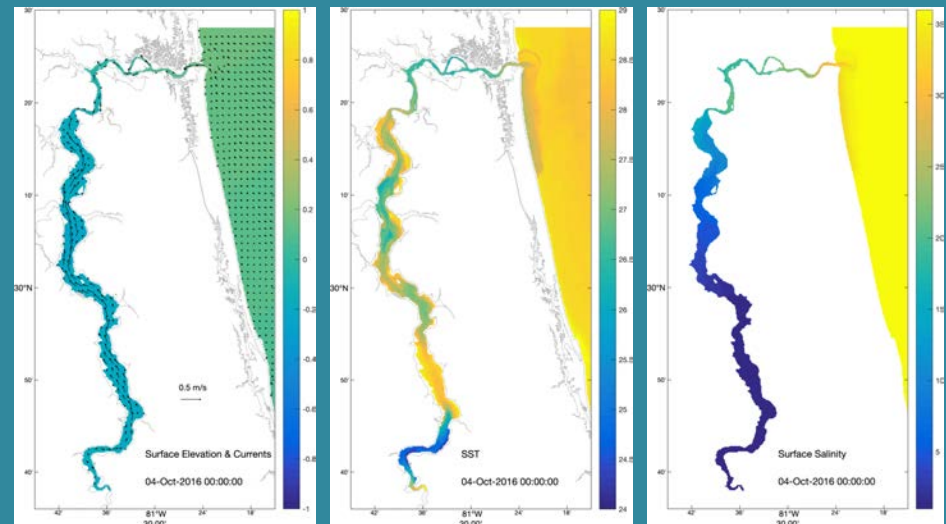
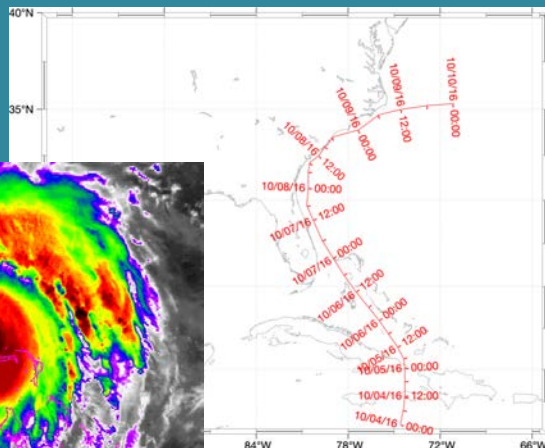
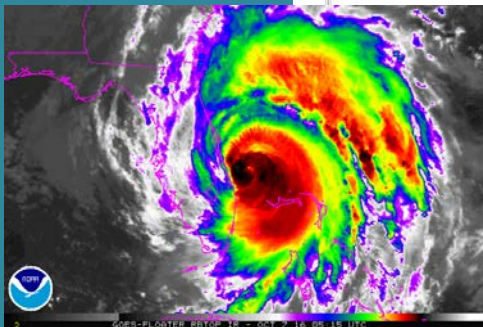


**Science Lead**  
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**Transition Lead**  
Debra Hernandez  
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Hurricane  
Matthew





# Thank you for attending!

Email [communications@secoora.org](mailto:communications@secoora.org) if you have questions.

**SECOORA Annual Meeting**



[www.secoora.org](http://www.secoora.org)



**SECOORA**  
Southeast Coastal Ocean Observing  
Regional Association



**IOOS**  
Integrated Ocean  
Observing System