Image Credit: Pedro Matos-Llavona

SECOORA
Southeast Coastal Ocean Observing Regional Association

SECOORA REGIONAL COASTAL OCEAN OBSERVING SYSTEM

OVERVIEW OF SECOORA RCOOS PROJECTS

RCOOS PI Meeting
NCSU, Raleigh, NC

May 20, 2016

www.secoora.org

IOOS
Integrated Ocean Observing System

Thank you!

Sponsor Recognition

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CODAR OCEAN SENSORS

TELEDYNE RD INSTRUMENTS
A Teledyne Technologies Company

Agenda

8:50am – 9:15am Welcome and Overview of SECOORA RCOOS Projects (*Vembu Subramanian)*

9:15am – 9:30am Instructions for Breakout Sessions (*Debra Hernandez)*

Break out sessions Topics:

- *Topic 1: SECOORA RCOOS Plan (Moderator: Vembu; Rapporteur: Robert Weisberg)*
- *Topic 2: SECOORA Data Portal and Website (Moderator: Abbey; Rapporteur: Kyle Wilcox)*
- *Topic 3: SECOORA Fellowship (Moderator: Debra; Rapporteur: Megan)*

9:30am – 10:15am Break Session 1

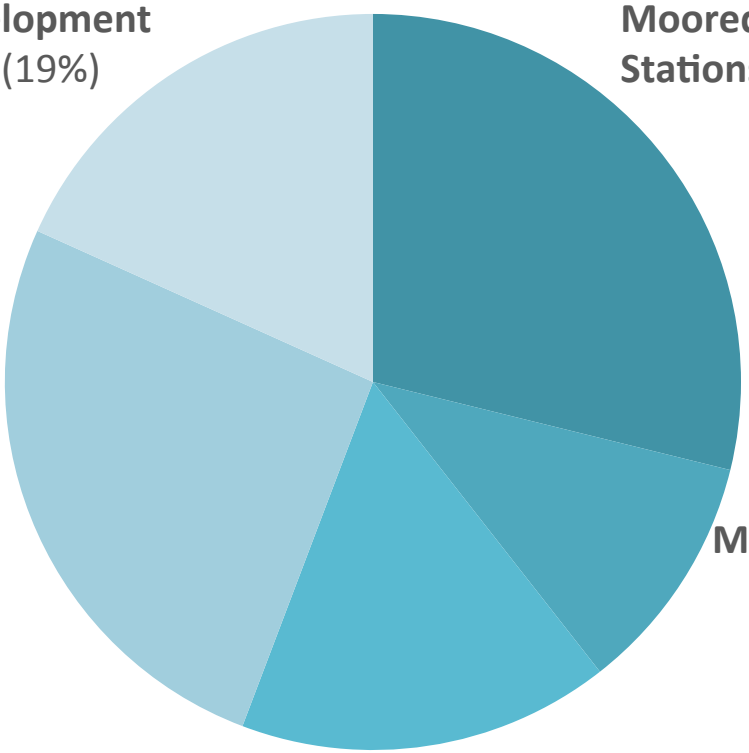
10:15am – 10:30am Coffee/Water Break

11:15am – 12:00pm Breakout Session 2

12:00pm – 12:15pm Boxed Lunch

12:30pm – 1:15 pm Report out from Breakout Sessions and Next steps and Adjourn

US IOOS Awards (2011 – 2016)



- Circulation
- Fisheries management
- Inundation, surge
- Water Quality (beach, shellfish)

Year 1: $ 2.01 M
Year 2: $ 2.23 M
Year 3: $ 2.49 M
Year 4: $ 2.53 M
Year 5: $ 2.60 M

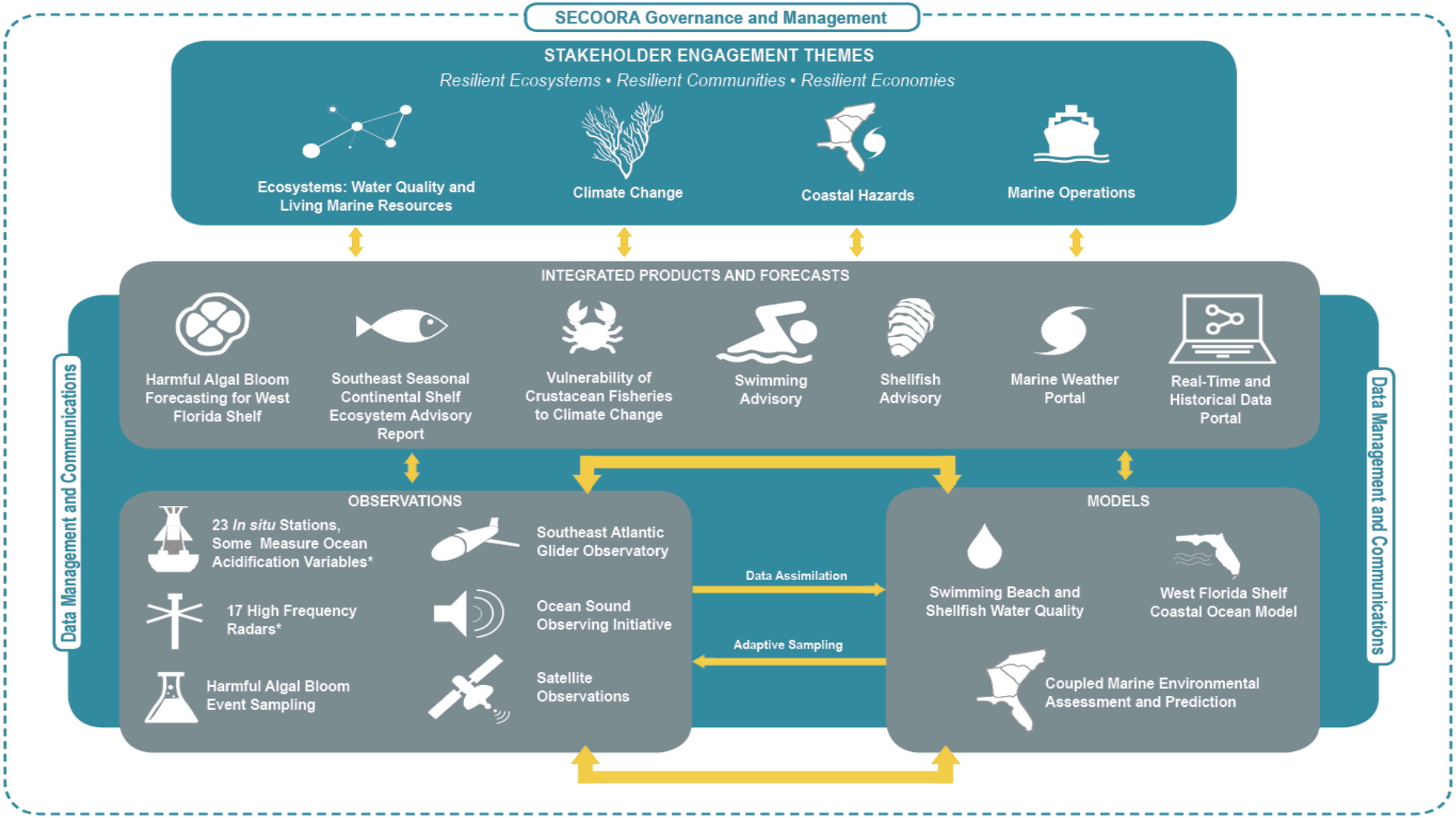
US IOOS Awards (contd..)

Proposal Title: Southeast Coastal Ocean Observing Regional Association (SECOORA): Supporting Resilient Ecosystems, Communities and Economies

- Submitted US IOOS Proposal (August 2015)
  - $20 M over five years (2011 -2016)
- Received $2.5 M (Year 1)
- Descoping and Proposal submission in progress (Due July 31, 2016)

RCOOS Schematic

*Includes proposed and existing projects



Goals and Objectives (2016)

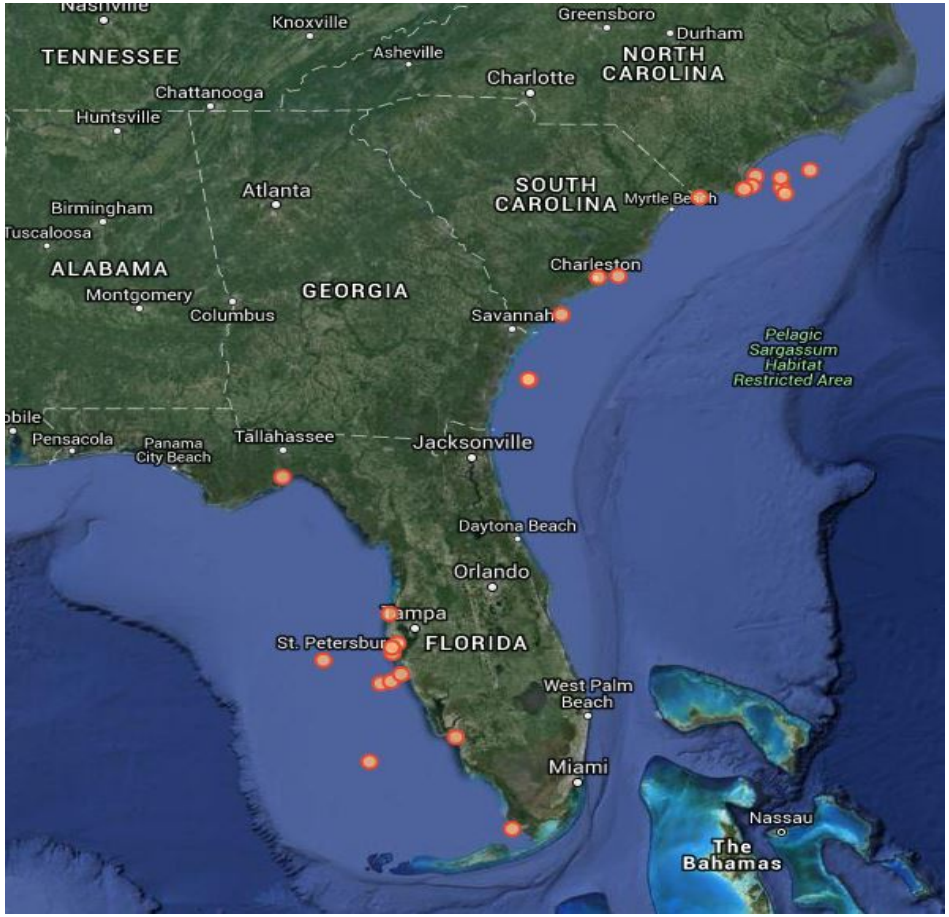
Goal 1. Continue SECOORA's region-wide governance and communication to manage RA and engage users and stakeholders in coastal observing science

Objectives:

- Maintain governance and management for the RA and RCOOS
- Engage users and other stakeholders to prioritize investments
- Maintain and operate DMAC

Goal 2: Maintain existing core observation investments in the region

Objectives: Maintain and operate Moored and Coastal stations.



Principal Investigators:

UNCW CORMP: 9 stations
Lynn Leonard (PI), Jennifer Dorton (Co-PI)

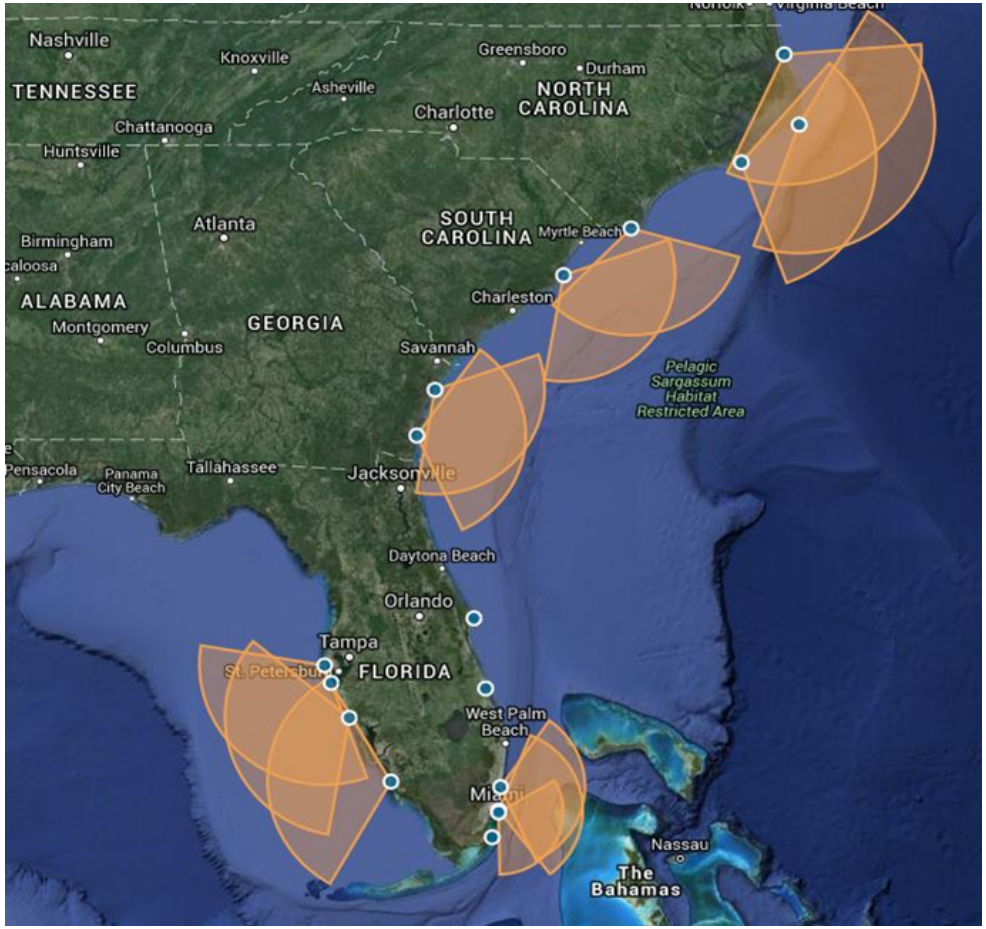
USF COMPS: 6 stations
Robert H. Weisberg (PI), Yonggang Liu (Co-PI)

USF COMPS: 6 inshore stations
Mark E. Luther (PI), Clifford R. Merz (Co-PI), Jeff Scudder (Co-PI)

UGA: 1 Ocean Acidification Gray's Reef Buoy Scott Noakes (PI), Wei-Jun Cai (Co-PI)

Goal 2: Maintain existing core observation investments in the region

Objectives: Maintain fifteen HFR distributed throughout the region.



USC (2-WERA HFR) – George Voulgaris
- Georgetown, SC; Caswell Beach, NC

UM (4- WERA HFR) – Nick Shay
- Crandon Park, FL; Virginia Key, FL
- Turkey Point (TBI), FL; Dania Beach, FL

UNC-CH (3-CODAR HFR) – Harvey Seim
- Duck, NC; Cape Hatteras, NC
- Core Banks, NC

USF (4CODAR) – Robert Weisberg
- Reddington Shores, FL; Venice, FL (C)
- Naples, FL; TBI

SkIO (2-WERA HFR) – Dana Savidge
- St. Catherine, GA
- Jekyll Island, GA

Goal 3: Begin to address geographic gaps in observations

Objectives: Establish a regional glider observatory in the SAB
Install a new coastal water quality station in Charleston Harbor.

Glider PIs

UNC-CH
- Harvey Seim

NCSU
- Ruoying He

UGA, SkIO
- Catherine Edwards

Gerogia Tech
- Catherine Edwards

USF
- Chad Lembke

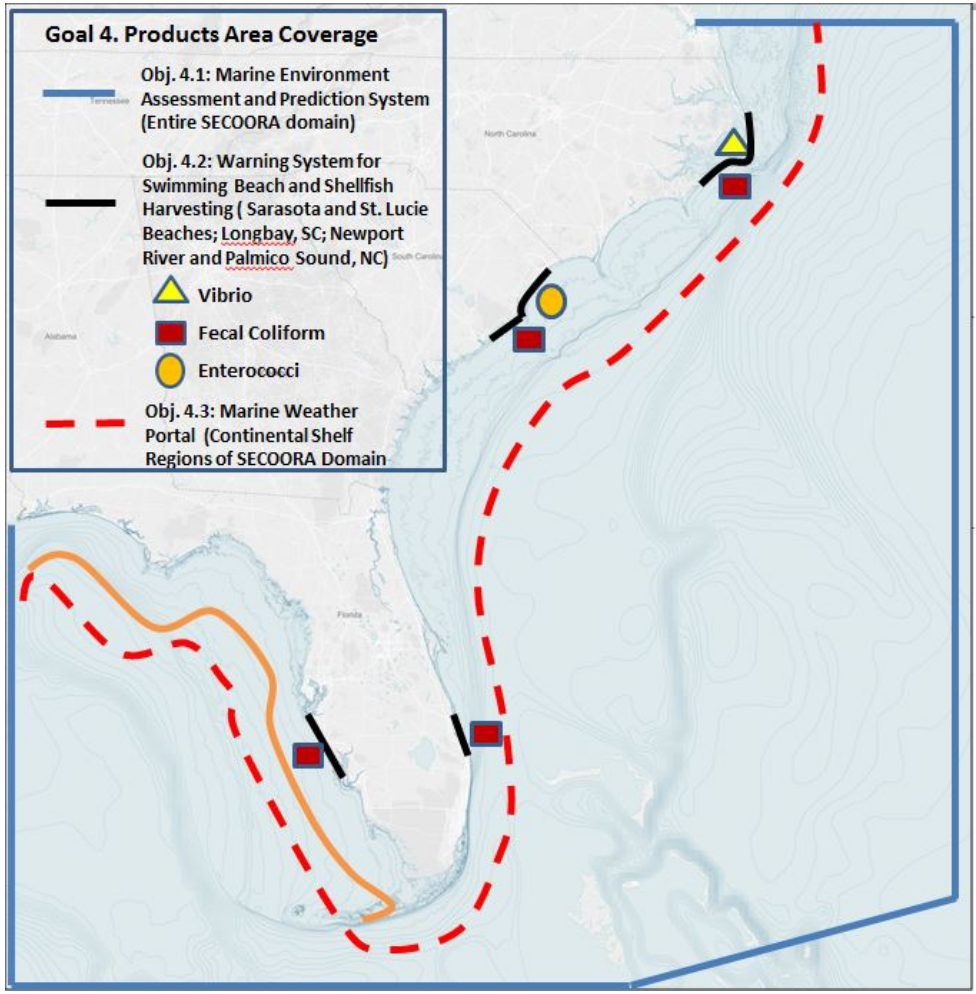
Coastal water quality station

SCDNR
- Denise Sanger

Goal 4: Continue delivery of operational models and products

Objectives:

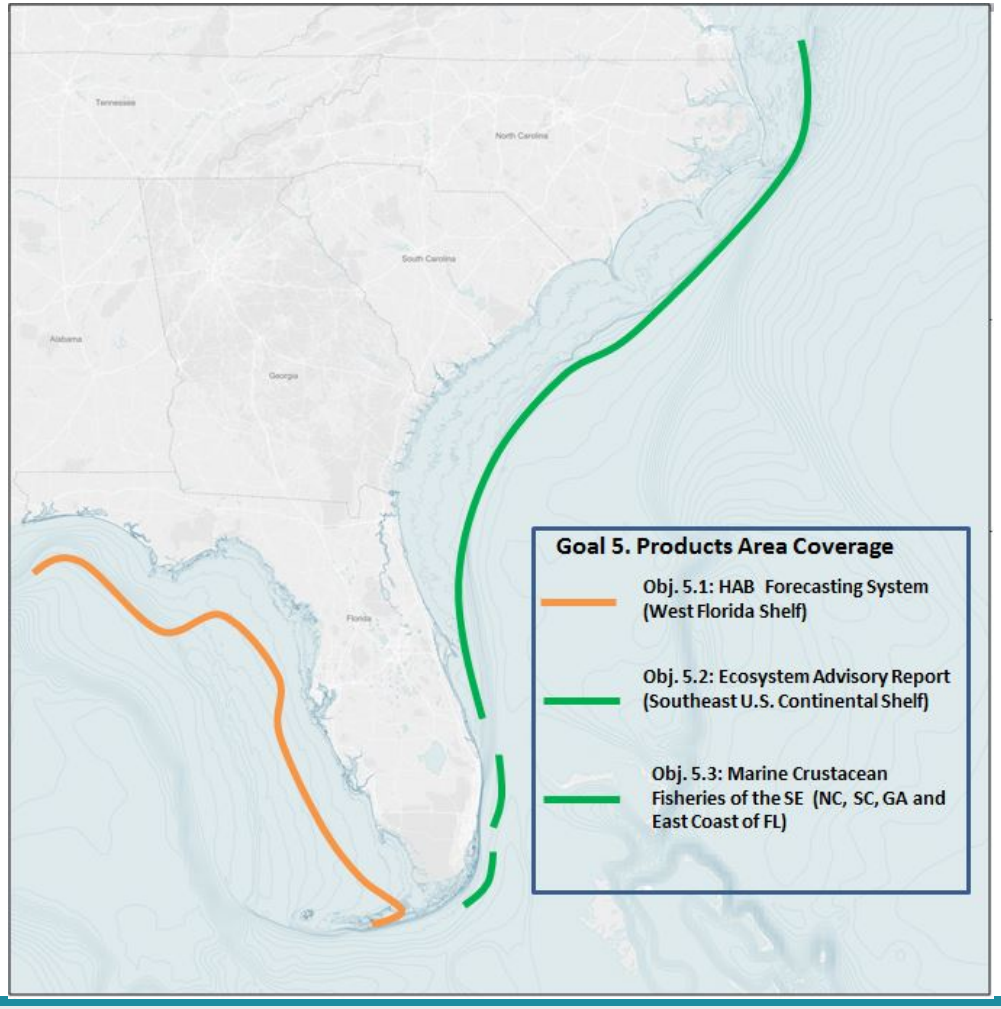
- Enhance and operate a Coupled Marine Environmental Assessment and Prediction System for the SE (NCSU – Ruoying He)
- Downscaling from the Deep-ocean, across the Continental Shelf and into the Estuaries (USF – Robert Weisberg)
- Provide an Early Warning System for Swimming Beach and Shellfish Harvesting Waters (USC – Dwayne Porter)
- Optimize and enhance the SECOORA Marine Weather Portal (UNCW – Jennifer Dorton)



Goal 5: Initiate new operational products to meet additional user needs ($4.5 M)

Objectives:

- Implement a HAB forecasting system for the WFS (FWC/ FWRI)
- Provide seasonal ecosystem advisory reports for the SE continental shelf (Roffer)
- Assess vulnerability of marine crustacean fisheries of the SE to climate change (SCDNR)

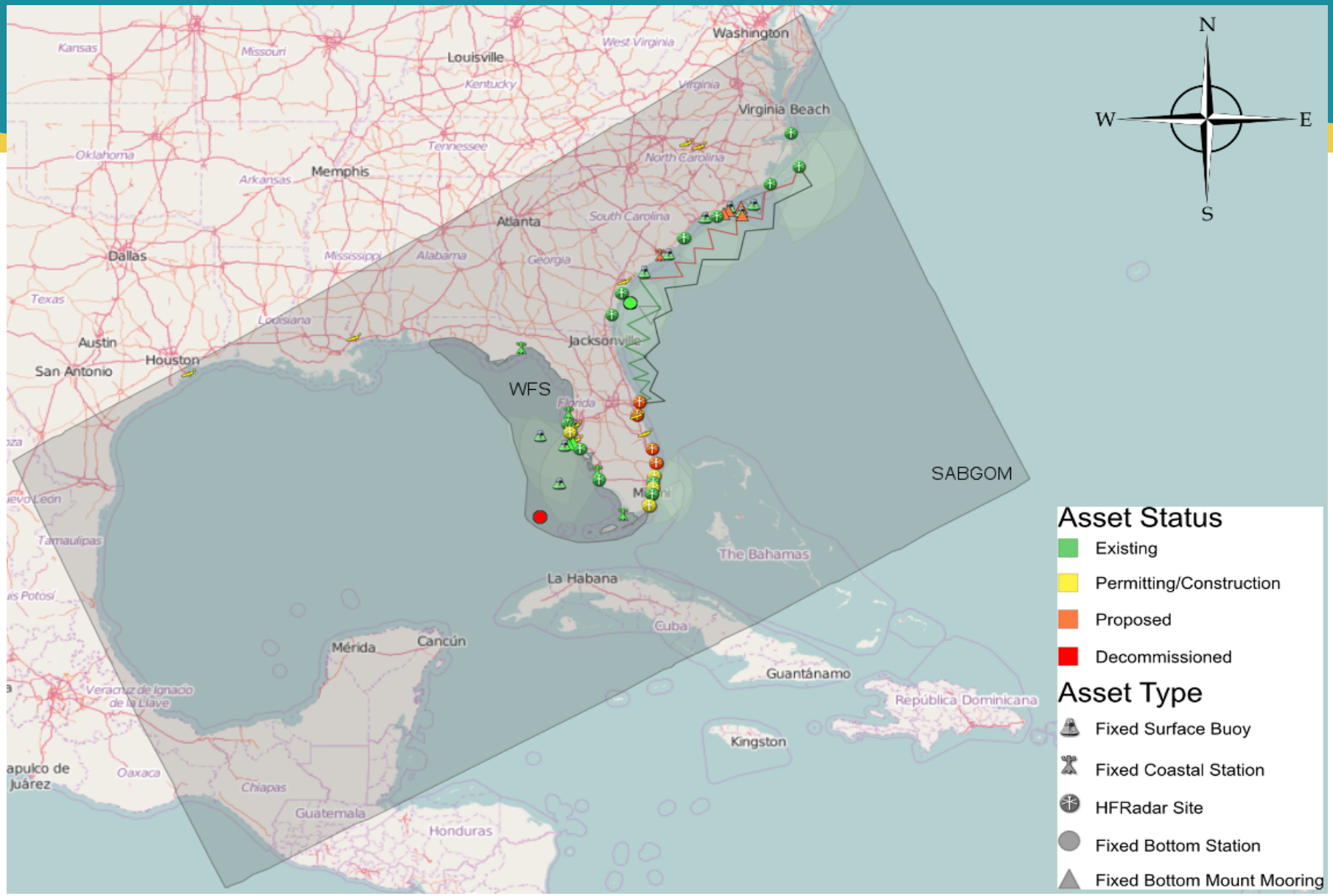


Goal 6: Enhance the observing system ($4.5 M)

Continue building critical elements of the observing system by adding biogeochemical and marine sound sensors, and HFRs

- Improve the seafloor observatory near Gray's Reef OA buoy (USF)
- Add and maintain comprehensive OA sensor packages at 4 buoys (UNCW/USF)
- Implement a regional ocean sound observing initiative (MOTE)
- Install and operate new HFR east of Port Canaveral, FL (FIT/UM)

THANK YOU!!!!!!



SECOORA Southeast Coastal Ocean Observing Regional Association

IOOS INTEGRATED OCEAN OBSERVING SYSTEM

#Secoora15AnnualMeeting