



SECOORA Projects Updates

- Moorings and HFR
- Gliders
- Modeling
- Applications
- Data Management and Communication



Optimization & Enhancement of the SECOORA Marine Weather Portal

Jennifer Dorton, UNC-Wilmington
Dwayne E. Porter, University of South Carolina
Charlton Galvarino, Second Creek Consulting
Steve Pfaff, NOAA NWS-Wilmington

Optimization and Enhancement of the MWP

2016/17 Goals

- Upgrade the data management and technology that supports the current MWP, including a revision of the mapping software and data management functionality.
- Work with the SECOORA data management provider to determine the best mechanism for hosting the Marine Weather Portal.

All goals have been achieved and portal is available at:
<http://mwp.secoora.org>

Optimization and Enhancement of the MWP



Home About

Maps

☐ NOAA Radar

☒ NWS Hazards

☒ NHC Forecasts

Regions

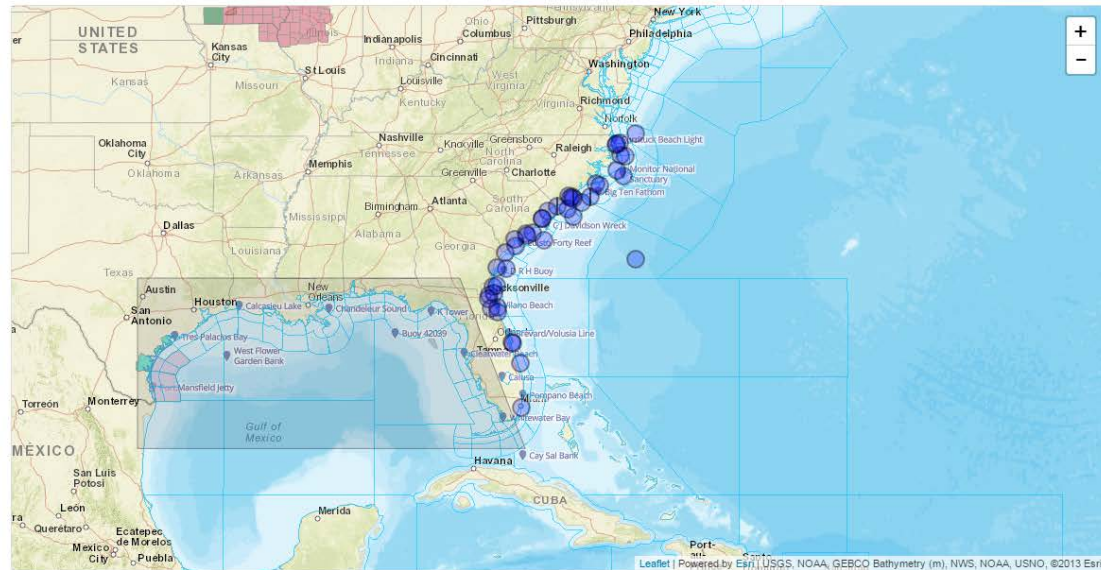
Southeast Atlantic

Stations

Select a station

Show All

SECOORA Marine Weather Portal



Welcome to the MWP!

Use the list or the map to the left to access near-real time observations. Click anywhere on the map to access forecast information.

Access graphs and historical data by clicking on a station.



If you have any comments or concerns, we would love to hear from you directly or via our feedback form.

PO Box 13856 Charleston, SC 29422 (727) 641-5258 communications@secoora.org



www.secoora.org
#secoora2017

Optimization and Enhancement of the MWP

Partners and Stakeholders

- NWS offices in the Southeast Region –specifically WFOs in Newport/Morehead City, NC, Wilmington, NC, Charleston, SC, Ruskin, FL, and Brownsville, TX
- SECOORA DMAC
- Boating and fishing community members (e.g. Dave Tilley with FryingPanTower.com, Mitch Roffer with Roffer’s Ocean Fishing Forecasting Service, Inc.).

Optimization and Enhancement of the MWP

2017/18 Planned Activities

- Target boating and fishing community members and their representatives
- Identify other regional products that could be included in the MWP. Examples:
 - Rip current forecasting
 - Water quality modeling



Southeast Ecosystem Advisory: Feasibility Study Report

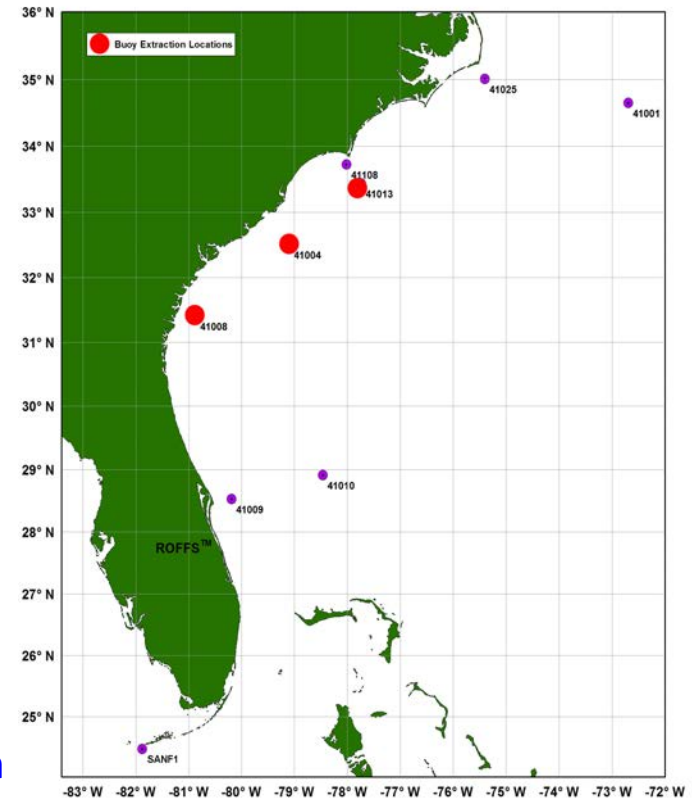
Mitchell A. Roffer, PhD
Roffer's Ocean Fishing Forecasting Service, Inc.

Candice Hall
Was ROFFS™, Now NOAA NDBC

Devise Ecosystem Advisory

2016/2017 Goals

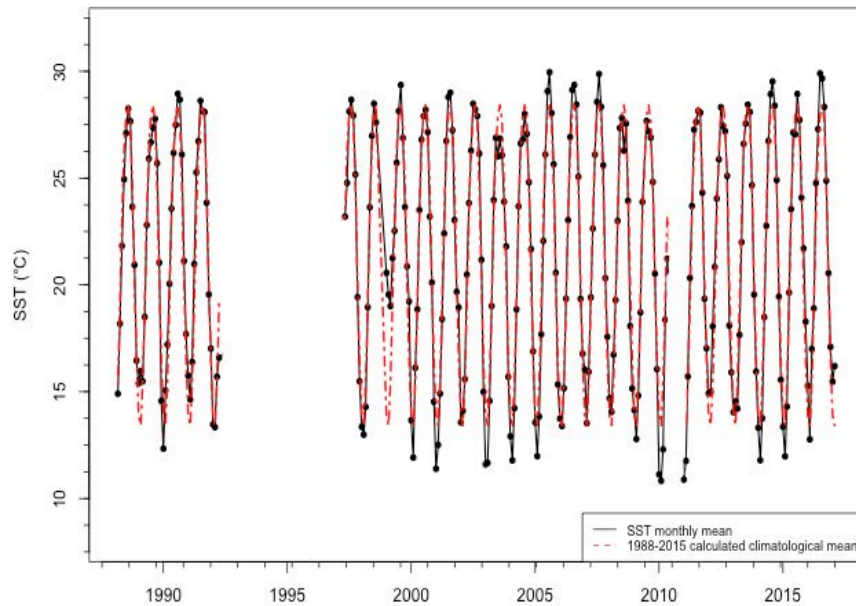
- Develop climatologies for:
 - Three of nine NOAA buoys
 - Sea surface temperature
 - Winds and waves
 - Regional satellite data
 - Sea surface temperature
 - Ocean color – chlorophyll +CDOM
 - Model output
 - HYCOM (free and easy to download)
 - Water temperature: surface and bottom
 - Salinity: surface and bottom
- Derive fish habitat preferences for 12 species
- Derive stop light figure summaries of environmental effects



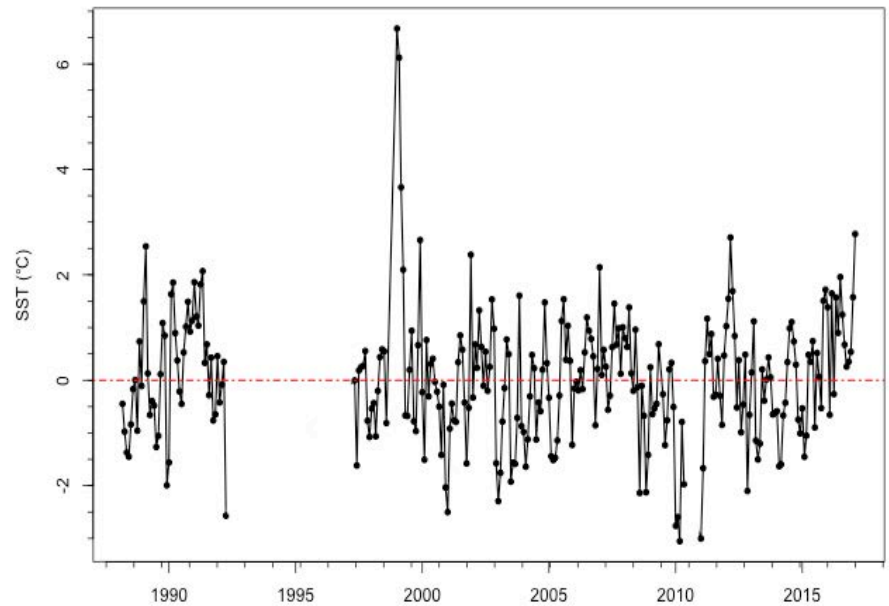
Devise Ecosystem Advisory

Example: SST Gray's Reef

Gray's Reef SST Monthly Mean

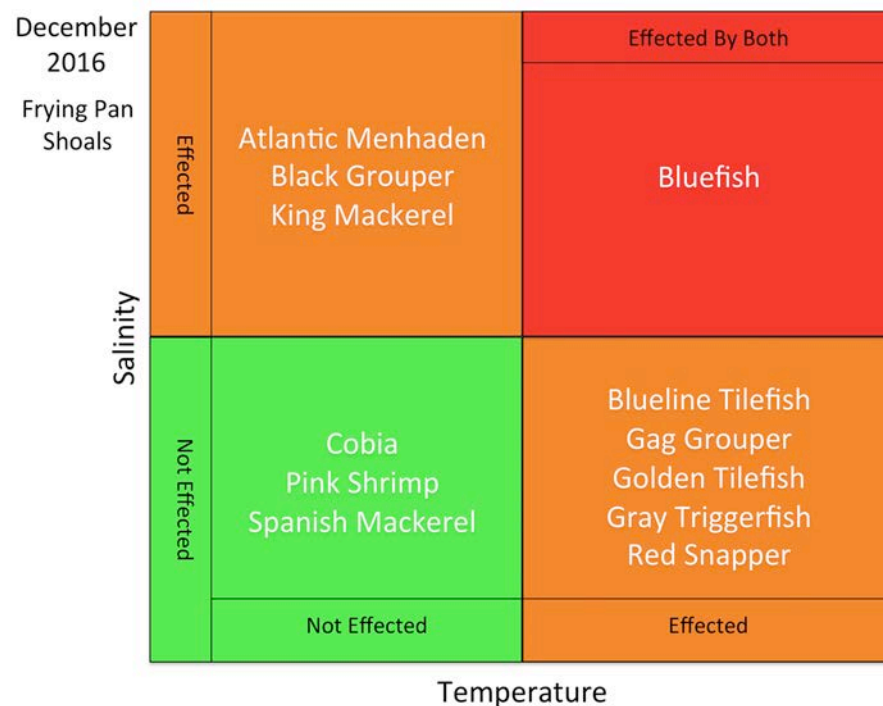
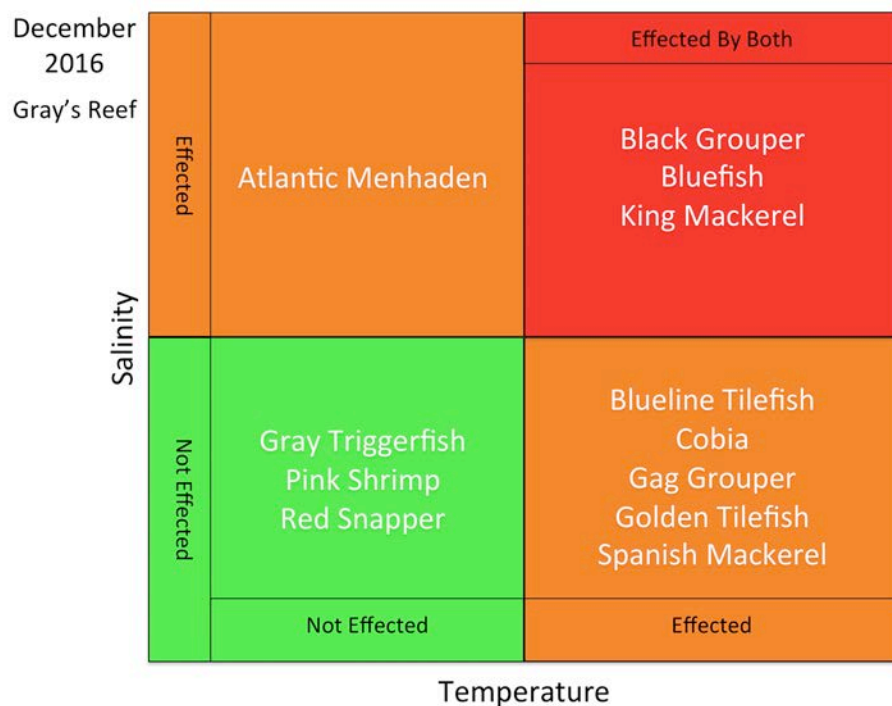


Gray's Reef SST Anomaly



Devise Ecosystem Advisory

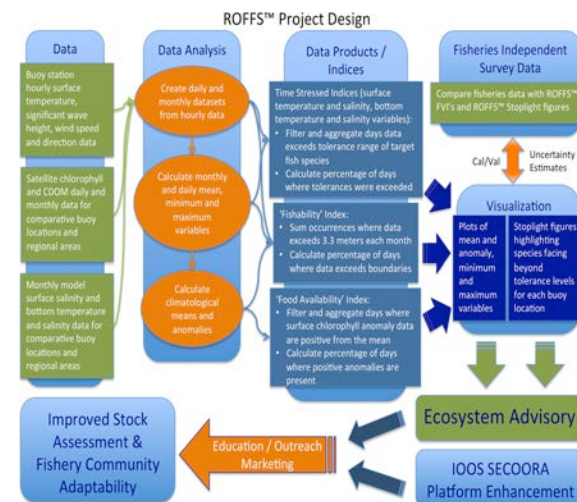
Results: Gray's Reef & Fry Pan Shoal



Devise Ecosystem Advisory

Partners and Stakeholders

- Commercial and recreational fishing associations
 - Southeastern Fisheries Association
 - North Carolina Fisheries Association
 - International Gamefish Association
- Management and science
 - Fisheries Management Councils
 - SEFMC, NEFMC
 - NOAA National Marine Fisheries Service
 - SEFSC, NEFSC, Office of Sci. & Tech. (climate)
 - South Carolina Department of Natural Resources
- Stakeholder engagement (Use and feedback)
 - Stakeholders (above and others) co-developed project
 - Use and feedback to be determined



Devise Ecosystem Advisory

2017/18 Planned Activities

- Products will be made available on SECOORA soon.
- Future plans are to:
 - Find additional funding to support quarterly Advisories and expand to nine buoys and Gulf of Mexico.
 - Evaluate other sources of data and models.
 - E.g. Chevron trap survey data and gliders for subsurface conditions.
 - E.g. other ocean models (NCSU, USF, others).



A large, stylized teal map of the Southeastern United States, showing the outlines of Virginia, North Carolina, South Carolina, Georgia, and Florida. It is positioned on the left side of the slide, partially overlapping the title text.

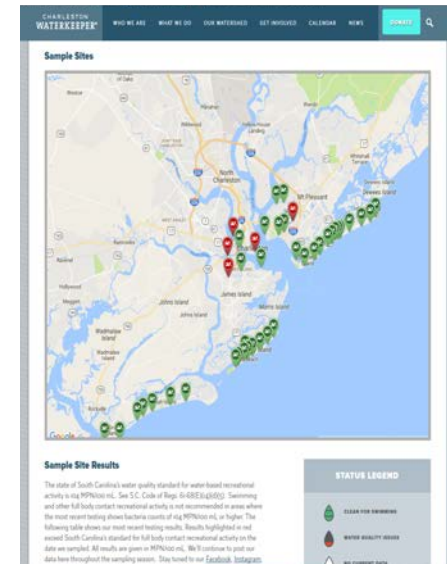
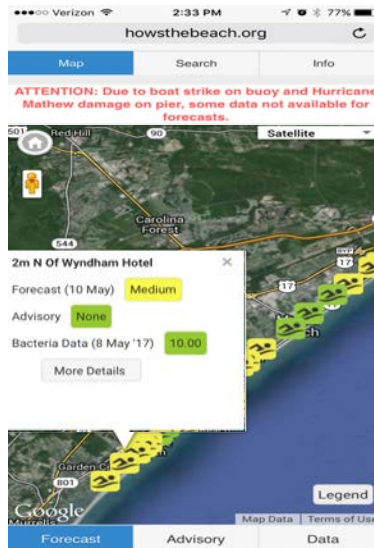
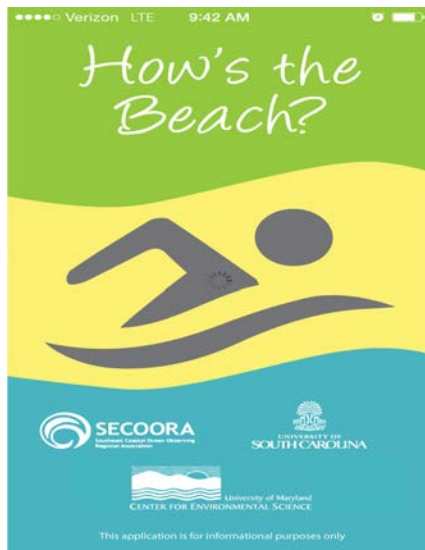
Integrated Decision Support and Management Tools for Adaptive Public Health Practices: An Early Warning System for Swimming Beach and Shellfish Harvesting Waters

Dwayne E. Porter, University of South Carolina
Heath Kelsey, University of Maryland
Geoff Scott, University of South Carolina
Jen Dorton, UNC - Wilmington

Integrated Decision Support and Management Tools

2016/17 Goals

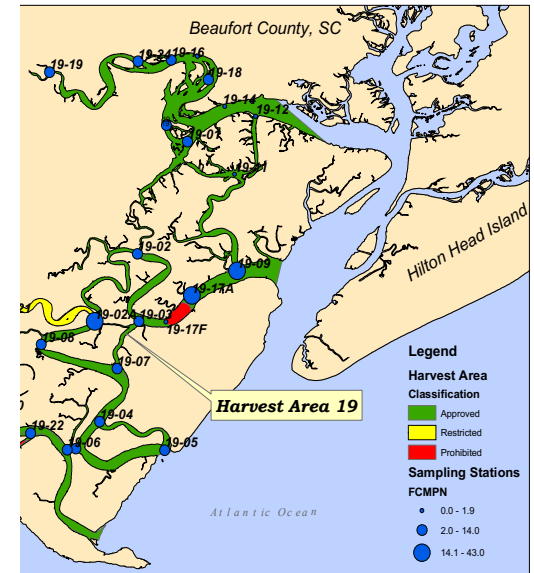
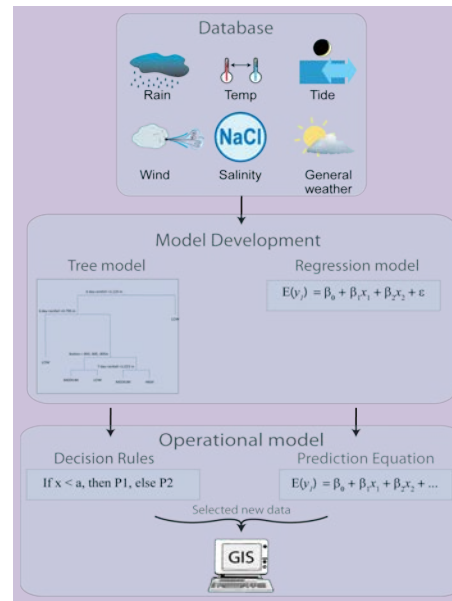
- Expand existing decision support tool to provide daily forecasts of bacteria concentration for additional swimming beaches in the SECOORA footprint (howsthebeach.org) .



Integrated Decision Support and Management Tools

2016/17 Goals

- Refine a tool developed to predict fecal coliform levels in shellfish harvest areas for use in additional shellfish harvesting waters in the SECOORA footprint.



Integrated Decision Support and Management Tools

From: **Cheryl Carmack** <cheryl@charlestonwaterkeeper.org>

Date: Mon, May 15, 2017 at 12:41 PM

To: "PORTER, DWAYNE" <DEPORTER@mailbox.sc.edu>

Hi Dwayne,

That's great to hear! Thanks for spreading the word!

Yes! So we reach about 1,000 people with our weekly water quality update emails. We also share these updates via our social channels - [instagram](#) (~4,200 followers), [twitter](#) (~5,100 followers), and [facebook](#) (~5,600 followers). Our whole email [listserv](#) is over 4,000 subscribers, so we could hit that many with any content we wanted. So needless to say, our new partnership of your water quality modeling and our monitoring and outreach will reach a pretty broad and diverse stakeholder audience.

Cheryl

Send



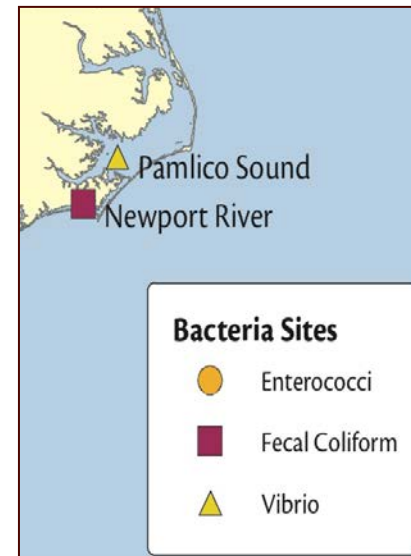
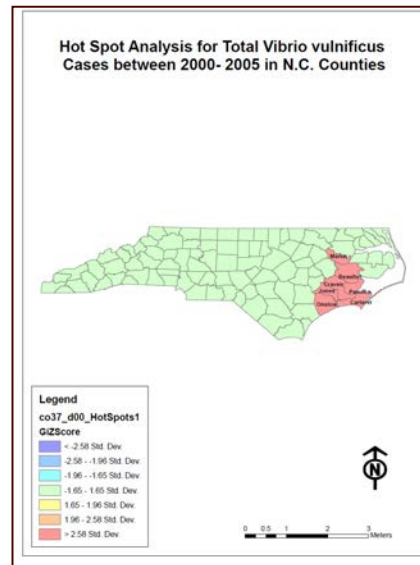
Saved



Integrated Decision Support and Management Tools

2017/18 Planned Activities

- ISSC and the NC Division of Marine Fisheries and the Division of Coastal Management have identified swimming beaches and shellfish harvesting areas for inclusion in decision support and management toolbox.



Questions?



SECOORA
Southeast Coastal Ocean Observing
Regional Association



IOOS
Integrated Ocean
Observing System



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