



Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute
Karen A. Steidinger Auditorium
100 8th Ave SE, St. Petersburg FL 33701
May 10 – 11, 2022

Workshop Goals:

- Bring together representatives from oyster mapping and monitoring programs across the state to foster communication regarding mapping and monitoring methodology, gaps, needs, and oyster population status
- Identify ways to improve data sharing, and compile local, regional, and statewide mapping and monitoring efforts that meet the needs of both OIMMP and FORS objectives

Tuesday, May 10th

8:30 – 9:00 am Sign-in (lobby of Karen A. Steidinger auditorium)

9:00 am Welcome to the workshop, overview of OIMMP and data products –Kara Radabaugh, Ryan Moyer, and Steve Geiger

9:30 am Overview of FORS – Katie Konchar

Attendee Presentations (12 min talk, followed by 2-3 min Q&A)

<u>Time</u>	<u>Presenter</u>	<u>Presenter affiliation</u>	<u>Title</u>
9:45	Sandra Brooke , Adam Alfasso	Florida State University	Assessment of oyster restoration projects in the Gulf of Mexico
10:00	Megan Christopher* , Jonathan Brucker	FDEP Central Panhandle Aquatic Preserves	Central Panhandle Aquatic Preserves oyster restoration
10:15	Haley Gancel* , Laura Geselbracht, Andrea Graves, Whitney Scheffel, Anne Birch	Pensacola & Perdido Bays EP	Oyster reef mapping and condition assessment in the Pensacola Bay System

*remote presentation

10:30 – 11:00 am Break

Attendee Presentations (12 min talk, followed by 2-3 min Q&A)

<u>Time</u>	<u>Presenter</u>	<u>Presenter affiliation</u>	<u>Title</u>
11:00	Savanna Hearne , C. Scott Adams, Kara Radabaugh, Emily Ritz, Christine Russo, Eric Plage, Serra Herndon, Gary Raulerson, Ryan P. Moyer	FWC/FWRI	Oyster density on varying artificial reef substrates and elevation in Tampa Bay, Florida
11:15	Damon Moore	Environmental Science Associates	Manatee River oyster restoration update
11:30	Stephen Geiger , Nicole Maloney, Chris Kirby, Michael Mosser & E. Levine	FWC/FWRI	17 years of C.E.R.P. baseline
11:45	Nicole Maloney , Chris Kirby, Michael Mosser, E. Levine & Stephen Geiger	FWC/FWRI	Oyster monitoring in Tampa Bay

12:00 – 1:15 pm Lunch Break – Indoor and outdoor space is available on the fourth floor of the FWRI building for eating lunch. This area includes a microwave and food and soda vending machines. Food is also available for purchase at the Tavern at Bayboro, the Campus Grind Coffee Bar, and The Hangar Restaurant.

1:15 pm Overview of afternoon schedule & FWC's TIG program – Ryan Gandy

Attendee Presentations (12 min talk, followed by 2-3 min Q&A)

<u>Time</u>	<u>Presenter and coauthors</u>	<u>Presenter affiliation</u>	<u>Title</u>
1:30	Pamela Marcum , Nikki Dix	GTMNERR	Intertidal oyster monitoring at the GTM Research Reserve
1:45	Katherine Harris , Meghan Bradburn, Linda Walters	University of Central Florida	Assessing the impact of mangrove-driven acidification on intertidal oyster reefs
2:00	Annie Roddenberry , Linda Walters, Melinda Donnelly, Jessy Wayles, Chelsey Crandall	FWC	Non-plastic materials for oyster reef restoration in Florida: understanding what is needed and where the field is headed
2:15	Sarah Cole* , Loraé Simpson, Zach Phillips, Morgan Gilligan	Florida Oceanographic Society	Oyster spat monitoring in the Southern Indian River Lagoon and St. Lucie Estuary

*remote presentation

2:30 – 3:00 pm Break and poster session

Posters displayed in lobby

<u>Poster presenter and coauthors</u>	<u>Presenter affiliation</u>	<u>Poster Title</u>
Gabriel Benson , Giovanna McClenachan, Linda Walters, Melinda Donnelly, Paul Sacks	University of Central Florida	Oyster reef coverage in Mosquito Lagoon
Meghan Bradburn , Katherine Harris, Linda Walters	University of Central Florida	Not so basic: a look at mangrove encroachment impacts on pH landscapes across intertidal oyster reefs
Paul Sacks , Giovanna McClenachan, Linda Walters	University of Central Florida	Ecosystem shifts and climate change: mangrove recruitment on oyster reefs
Emily Suchonic , Mekail Negash, Gabriel Benson, Paul Sacks, Melinda Donnelly, Linda Walters	University of Central Florida	Bird interactions with novel oyster reef restoration materials using wildlife trail cameras

3:00 – 3:15 pm FORS Mapping Subcommittee presentation – Corey Anderson

3:15 – 3:45 pm FORS Mapping discussion – Corey Anderson (in person), Brittany Bankovich and Kara Radabaugh (online)

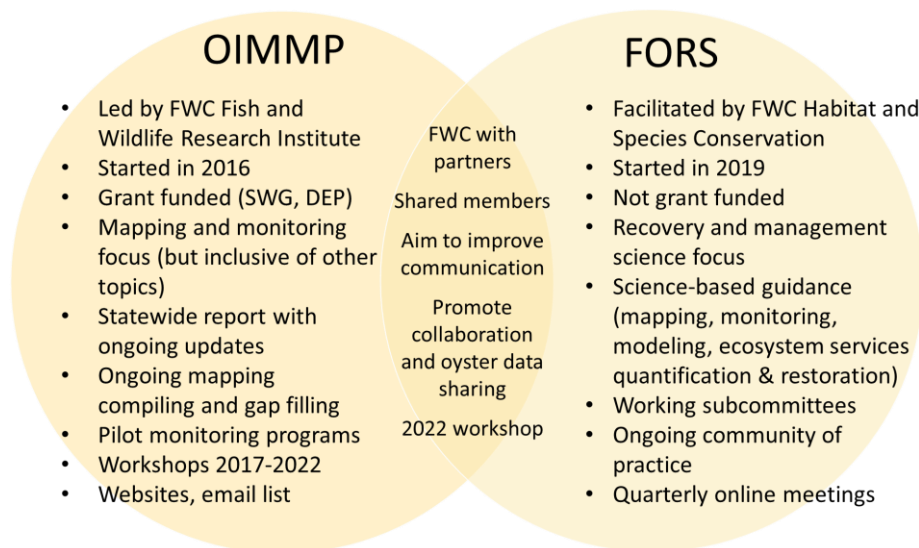
3:45 – 4:00 pm FORS Monitoring Subcommittee presentation – Steve Geiger

4:00 – 4:30 pm FORS Monitoring discussion Steve Geiger (in person), Kara Radabaugh and Steve Durham (online)

4:30 – 4:45 pm FORS Ecosystem Services Subcommittee presentation – Ed Camp (remote presentation)

4:45 – 5:15 pm Conclusions from Day 1

6:00 – 8:00 pm Social at the Hollander Hotel (421 4th Ave N, St. Petersburg, FL 33701)



Wednesday, May 11th

8:15 – 8:30 am Complete travel paperwork for attendees needing reimbursement (bring hotel receipts)

8:30 – 8:45 am Day 2 welcome, statewide oyster mapping updates and future plans – Kara Radabaugh

Attendee Presentations (12 min talk, followed by 2-3 min Q&A)

<u>Time</u>	<u>Presenter</u>	<u>Presenter Affiliation</u>	<u>Title</u>
8:45	Jamie Casteel , Jennifer Moore, Bill Pine, Brad Ennis	University of Florida	Patterns in oyster shell biomass in Suwannee Sound
9:00	Michael Espriella , Vincent Lecours, H.A. Lassiter, Benjamin Wilkinson	University of Florida	Roughness metrics as indicators of oyster reef health
9:15	Simeon Yurek , Mike Allen, Mitch Eaton, Dave Chagaris, Nathan Reaver, Julien Martin, Peter Frederick, Mark Dehaven	U.S. Geological Survey	Modeling coastal salinity regime and oysters in Suwannee Sound
9:30	Bill Pine , Jennifer Moore, Peter Frederick, Brad Ennis, Jamie Casteel, Matthew Richardson, Mike Allen, Leslie Sturmer	University of Florida	Effective restoration or spurious certitude? Assessing oyster population responses to restoration in Suwannee Sound, Florida
9:45	Tomena Scholze	FWC/FWRI	Project update: FWC oyster monitoring in Suwannee Sound

10:00 – 10:30 am *Break*

10:30 – 11:30 am Restoration breakout groups – FWC HSC (Katie Konchar, Kent Smith, Annie Roddenberry, Corey Anderson) and OIMMP (Kara Radabaugh, Ryan Moyer, Steve Geiger, Casey Craig) (in person and virtual)

11:30 am – 12:00 pm Report results from breakout groups

12:00 – 12:30 pm Conclusion and future directions



Online Resources

FWC online resources

Oyster Integrated Mapping and Monitoring Program (OIMMP)

Report: <https://myfwc.com/research/habitat/coastal-wetlands/projects/oimmp/>

Workshop presentations and resources: <https://ocean.floridamarine.org/OIMMP/>

Coastal Habitat Integrated Mapping and Monitoring Program (CHIMMP)

Report: <https://myfwc.com/research/habitat/coastal-wetlands/projects/chimmp/>

Workshop presentations and resources: <https://ocean.floridamarine.org/CHIMMP/>

Seagrass Independent Mapping and Monitoring Program

<http://myfwc.com/research/habitat/seagrasses/projects/active/simm/>

FWC GIS data downloads

General: <http://geodata.myfwc.com/>

Oyster layer: <http://geodata.myfwc.com/datasets/oyster-beds-in-florida>

Contact information: GISLibrarian@MyFWC.com

Statewide commercial oyster harvest data

1950-1983 harvest data: Appendix A of OIMMP report <https://myfwc.com/research/habitat/coastal-wetlands/projects/oimmp/> or download spreadsheet from <http://ocean.floridamarine.org/OIMMP/> (see “1950 to 1983 Oyster Fisheries Data” link under “Resources”)

1984 to present: <https://public.myfwc.com/FWRI/PFDM/ReportCreator.aspx>

Other Online Resources:

FDACS Shellfish Harvesting Areas

FDACS site: <https://www.fdacs.gov/Agriculture-Industry/Aquaculture/Shellfish-Harvesting-Area-and-Aquaculture-Lease-Map>

Oyster Restoration Workgroup

<http://www.oyster-restoration.org/>

<http://www.oyster-restoration.org/oyster-restoration-research-reports/>

FDEP Statewide Ecosystem Assessment of Coastal and Aquatic Resources (SEACAR)

Monitoring program database: <https://data.florida-seacar.org/>

SEACAR homepage: <https://floridadep.gov/SEACAR>

University of Florida historical aerial photography collection: <http://ufdc.ufl.edu/aerials>

NOAA historical topographic surveys (T-sheets) of historical habitat coverage

<https://shoreline.noaa.gov/data/datasheets/t-sheets.html>