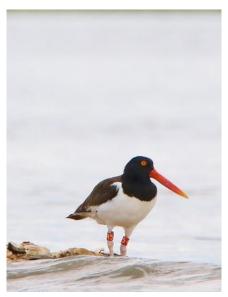
Horseshoe Cove and Suwannee Sound Workshop

9-11 March 2021 8:30 am - 12:30 pm











Hosted by
Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute



Planning Team Introductions

FWC

CoastWise Partners



Paul Carlson, Ph.D.



Rich Batiuk, M.S.



Steve Geiger, Ph.D.



Holly Greening, M.S.



Caroline Gorga, M.S



Ryan P. Moyer, Ph.D.

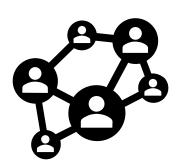


Kara Radabaugh, Ph.D.



Introduction to Workshop and FWC's Integrated Mapping and Monitoring Programs

Workshop Purpose



 Opportunity for the conservation community to connect (or re-connect!)



Highlight a (somewhat)
 overlooked region of the Big
 Bend and bring it to the
 attention of decision makers
 and funding entities.



Why this region?



Horseshoe Cove and Suwannee Sound are unique:

- Documented losses:
 - Seagrass
 - Oysters
- Many research and monitoring data gaps
- Low human population
- Many recently funded restoration projects
- Regional interest & support



Why FWRI?

Integrated Mapping and Monitoring Programs



Seagrass



Coastal wetlands



Oyster reefs



Seagrass Integrated Mapping and Monitoring Program (SIMM)

- Statewide report available at <u>http://myfwc.com/research/habitat/seagrasses/projects/active/simm/</u>
- Provides statewide and regional summaries of seagrass status
- Regionally-focused chapters include information on mapping, monitoring, threats, and recommendations for seagrass
 - Southern Big Bend Chapter (v 3.0, 5/2019)
 - Suwannee Sound, Cedar Keys and Waccasassa Bay Chapter (v 2.0)





Coastal Habitat Integrated Mapping and Monitoring Program (CHIMMP)

- Statewide report (2017) available at https://myfwc.com/research/habitat/coas tal-wetlands/projects/chimmp/
- Regionally-focused chapters
 - Chapter 3: Big Bend and Springs
 Coast (update to be released 2021)
- Coordinator maintains email listserv and hosts partner workshops

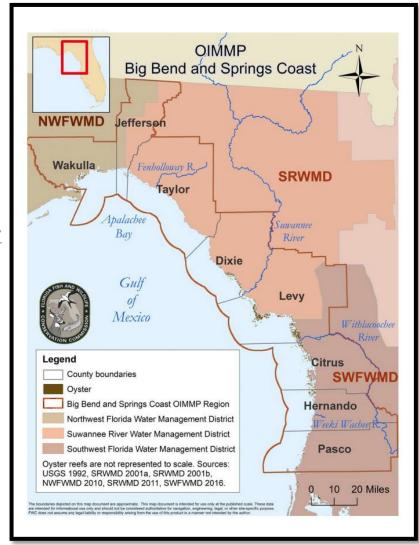
http://ocean.floridamarine.org/CHIMMP/



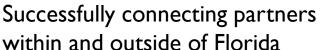


Oyster Integrated Mapping and Monitoring Program (OIMMP)

- Statewide report (2019) available at: <u>https://myfwc.com/research/habitat/coasta</u> <u>l-wetlands/projects/oimmp</u>
- Created the most comprehensive map to date: https://geodata.myfwc.com/datasets/oyster-beds-in-florida
- Regionally-focused chapters
 - Chapter 4: Big Bend and Springs Coast (update to be released 2021)
- Coordinator maintains email listserv and hosts partner workshops: http://ocean.floridamarine.org/OIMMP/



IMMPs – what next?





Technical Report (v 1.0) published



Continuously seeking funds to update the reports and address data gaps identified.



Mapping & Monitoring → Management Action

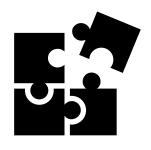
Take a regional, multi-program approach



Workshop Goals



 Discuss status, needs, and opportunities for living resources in the Horseshoe Cove and Suwannee Sound and its associated watershed.



 Facilitate communication and coordination among local experts, land managers, and funding entities working in Horseshoe Cove and Suwannee Sound



Agency and program summaries

See PDF of program summaries for further information, resources, and contacts regarding activities in the region

Agency: Florida Department of Environmental Protection

Program or Department: Office of Resilience and Coastal Protection – Big Bend Seagrasses Aquatic Preserves

Summary: Big Bend Seagrasses Aquatic Preserve (BBSAP) was established in 1985 encompassing approximately 985,000 acres of submerged land spanning five Gulf Coast counties of Florida from the St. Marks River southward to the mouth of the Withlacoochee River. The surrounding uplands bordering BBSAP's 1,200 miles of dynamic coastline are dominated by State or Federally managed land holdings or are undeveloped private lands. This creates one of the most pristine coastlines in the state, allowing for effective baseline management of BBSAP's aquatic resources. Big Bend Seagrasses Aquatic Preserve boasts ideal conditions for aquaculture and its productive estuaries provide ample commercial and recreational harvest opportunity for many target species like red drum, spotted sea trout, snook, blue crab, shrimp and stone crab. Staff focus primarily on water quality and submerged aquatic vegetation as two indicators for overall health of this aquatic preserve. Historical continuous water quality data is available for the Suwannee Sound region from 2009 to 2016.

Relevant websites: Big Bend Seagrasses Aquatic Preserve | Florida Department of Environmental Protection

Contacts: <u>Timothy.W.Jones@FloridaDEP.gov</u>, <u>Trisha.Green@FloridaDEP.gov</u>

Relevant references: Big Bend Seagrasses Aquatic Preserve Management Plan:

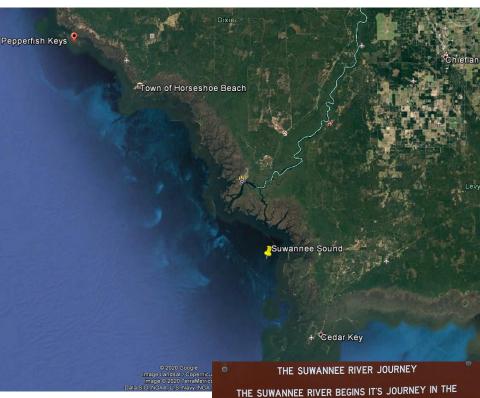
publicfiles.dep.state.fl.us/cama/plans/aquatic/Big-Bend-Seagrasses-AP-Management-Plan.pdf

Horseshoe Cove and Suwannee Sound Workshop – Day 2

10 March 2021 8:30 am – 12:30 pm









Hosted by
Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute

430,000 ACRE OKEFENOKEE SWAMP IN FARGO
GEORGIA. AS IT TRAVELS SOUTH THROUGH GEORGIA AND
FLORIDA. THE RIVER DESCENDS OVER 100 FEET FROM IT'S
STARTING ELEVATION AND TRAVELS OVER 270 MILES UNTIL
IT REACHES THE GULF OF MEXICO. IN FLORIDA. THE RIVER
IS JOINED BY THE BEAUTIFUL BLACKWATER ALAPAHA AND
WITHLACOOCHIE RIVERS ENTERING FROM GEORGIA
BEFORE IT RECEIVES TREMENDOUS VOLUMES OF CLEAR
SPRING WATER FROM UNDERGROUND SPRINGS. THE
SANTA FE RIVER IS THE LAST MAJOR TRIBUTARY THAT
ENTERS THE SUWANNEE BEFORE IT REACHES THE GULF
OF MEXICO.



Recap of Day I – Fish & Wildlife

Goal: Discuss status, needs, and opportunities for living resources in the Horseshoe Cove and Suwannee Sound and its associated watershed.

- Oyster restoration, mapping, monitoring & aquaculture
- Habitat needs of birds (oyster reefs & salt marsh)
- Fisheries independent monitoring
- Monitoring and management gaps and needs (excellent and engaged discussion)

Conceptual Ecosystem Model for Horseshoe Cove & Suwannee Sound

Process:

- How does it work?
- Provide feedback on most important drivers of ecosystem-scale stability or change in the region

Raise hand or use chat box to provide feedback

 Draft CEM will be updated on the fly

Viewable at:

Legend
Oyster Reefs
Continuous Seagrass
Patchy (Discontinuous) Seagrass
Salt Marshes

https://jamboard.google.com/d/IMWkVOY4AY0lkCgDfvBcErcXGSIRbIZRHLjP5pOv96Kw/edit?usp=sharing

Horseshoe Cove and Suwannee Sound Workshop – Day 3

11 March 2021 8:30 am – 12:30 pm





Hosted by
Florida Fish and Wildlife Conservation Commission
Fish and Wildlife Research Institute



Recap of Day 2

- Ongoing habitat and water quality research and monitoring
- Agency overviews from DEP, SRWMD, USACE
- Discussed key information gaps and identified management actions
 - Data synthesis!
 - Freshwater discharge a big driver in the region
 - Gaps in current monitoring networks and long-term support of this data collection a concern
- Telling this region's story
 - Conceptual model discussion

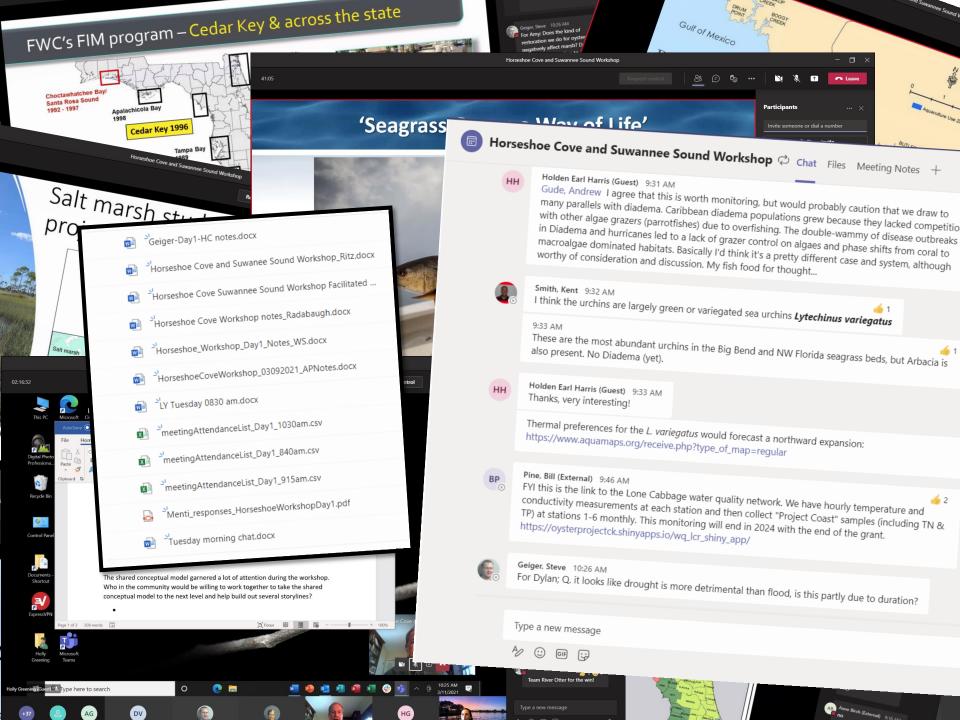


Upcoming events

- FLTIG NRDA Restoration Plan 2 Webinar
 - Tonight at 5pm! (see chat from Gareth for details)
- Annual Forage Fish Data Workshop,
 - Virtual, May/June 2021
 - Email Justin <u>jgrubich@pewtrusts.org</u> for details
- OIMMP workshop planned for Fall 2021 or Spring 2022
 - Email <u>Kara.Radabaugh@myfwc.com</u> to join email list if interested
- UF Big Bend Science Symposium, 2022
- Webinar: State of Florida Ecological Report Card
 - March 30th (2-3pm) & 31st (11:00am-noon)
 - Email Nicole.Burns@myfwc.com for details



Workshop Conclusion



THANK YOU, RICH & HOLLY!

CoastWise

Holly Greening & Rich Batiuk

programe

We'll work for (good) food!

After long careers with two of the most successful watershed management

Need some help with your collaborative watershed management strategy?

Want some advice on framing your Comprehensive Plan update?

Looking for experienced assistance with watershed program governance, management or scientific









Holly Greening was both Executive Director and Senior Scientist of the Tampa Bay Estuary Program. Holly has served on the Estuarine Research Federation Governing Board, the National Academy of Sciences Ocean Studies Board, and four National Research Council committees. She was Co-Chair of the 2011 Coastal and Estuarine Research Federation Conference, Chair of the Association of National Estuary Programs, and

Associate Editor for the scientific journal Estuaries and Coasts. She has authored more than 25 peer-reviewed publications with a focus on estuarine ecology and collaborative watershed management, and is the recipient of regional and national awards for coastal stewardship.

Holly is available beginning Spring 2018. She is based in St. Petersburg, FL. Holly can be reached at hgreening@coastwisepartners.org or 941-462-1339. Rich Batiuk spent more than three decades with U.S. EPA and the Chesapeake Bay Program partnership, where he led the integration of science into multi-partner collaborative decision-making. He was the principal architect of the Chesapeake Bay TMDL, a groundbreaking pollutant accountability system spanning six states and the District of Columbia. Rich has led the development and expansion of one

of the world's most comprehensive

estuarine and watershed monitoring networks, designed to assess an array of water quality standards, environmental indicators and outcomes directly linked to management.

Rich is available beginning Fall 2018. He is based in Annapolis, MD. Rich can be reached at richbatiuk@gmail.com or 410-268-5226.

https://prepestuaries.org/01/wp-content/uploads/2018/10/CoastWise-Partners-Holly-Greening-and-Rich-Batiuk.pdf



Funding Acknowledgement





Funding for this workshop was provided by the Florida Fish and Wildlife Conservation Commission, Florida's Wildlife Legacy Initiative, and the U.S. Fish and Wildlife Service's funding support of Florida's State Wildlife Grants Program Monitoring and Aquatic Restoration Projects

