

FY21 RSM IPR
SAJ – Northeast Florida RSM:
A Guide to Using Dredged Material for Estuarine Restoration
Aubree Hershorin, Kip Weber, Matt Schrader



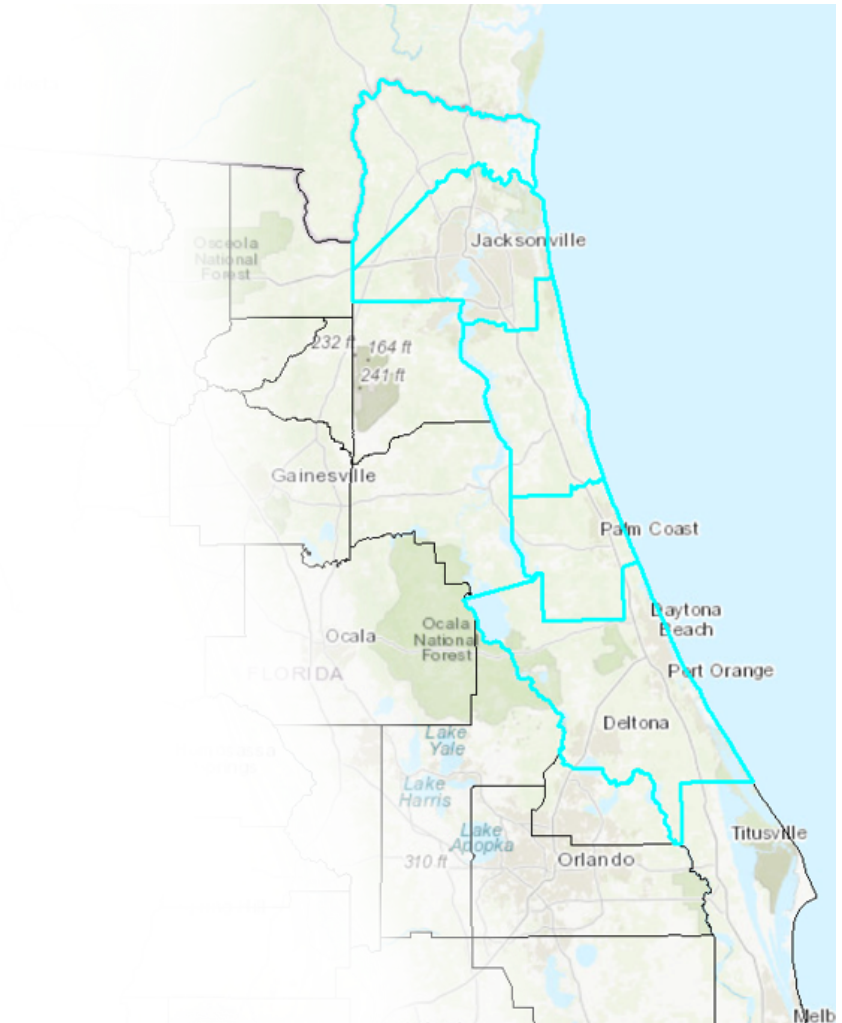
BLUF: An RSM guide to assist stakeholders in evaluating and implementing back bay and estuarine habitat restoration using dredged materials.

Challenge/Objectives

- Capitalize on NERT's ongoing multi-year strategy for restoration projects in the region
- Enable stakeholders to proactively find opportunities to beneficially use dredged materials.

Approach (including Tools/Models/Data Used)

- Stakeholder meetings to identify priorities and information that would be useful
- Compile data from available sources
- Prepare report and present to stakeholders



FY21 RSM IPR

SAJ – Northeast Florida RSM:

A Guide to Using Dredged Material for Estuarine Restoration



District/Other USACE PDT Members

Aubree Hershorn

Kip Webber

Clay McCoy

Matt Schrader

Barbara Nist

Tony Ledford

Stakeholders/Partners:

Northeast Florida Estuarine Restoration Team (NERT)

- Created in 2010 to develop regional habitat initiatives
- Steering Committee includes numerous Federal, state, and local agencies as well as NGOs

Leveraging/Collaborative Opportunities

- **SACS Products**

- SAND Report
- RSM Optimization Report
- DMMA Sediment Report

- **Previous SAJ Studies**

- NEFL RSM Implementation Strategies and Recommendations for Nassau and Duval County, Florida
- RSM Implementation Strategies and Recommendations for Ecosystem Restoration in Tampa Bay, Florida



“NERT brings partners together to develop regional landscape-level habitat initiatives”



FY21 RSM IPR

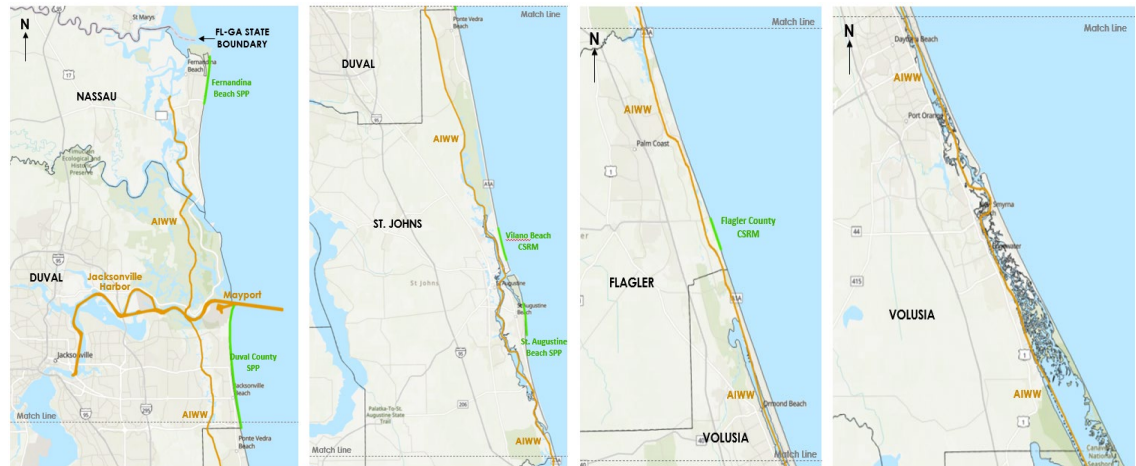
SAJ – Northeast Florida RSM:

A Guide to Using Dredged Material for Estuarine Restoration



Accomplishments/Deliverables:

- Coordination Meetings with Stakeholders
- Literature Search
- NEFL RSM Guide (Tech Note)
- Presentation of Findings





SAJ – Northeast Florida RSM:

A Guide to Using Dredged Material for Estuarine Restoration

What challenges did you face to get your project to implementation and how did you move past them? If not yet implemented, what is your path forward to construction? What were your lessons learned that you think might benefit other Districts?

Lack of Data

- Limited sediment information for navigation channels, especially in infrequently dredged areas
- Unknowns of restoration strategies – limited data (e.g., monitoring data, published literature) available for implemented projects
- Few pilot projects from which to acquire costs and “lessons learned”

Future Challenges to Implementation

- Communication between USACE and agencies/NGOs doing the restoration (e.g., uncertain schedules/timing, limited staffing to maintain relationships, short timeframe to construction does not allow time for permitting, coordination between USACE and agencies)
- Funding over least cost

FY21 RSM IPR



SAJ – Northeast Florida RSM:

A Guide to Using Dredged Material for Estuarine Restoration

How is this project benefiting the USACE and Nation?

(efficiency, monetary, technical, relationship building, outreach, etc.)

(Volume of sediment to be managed, Acres created, etc)

BE SPECIFIC – we are looking to more formally document these benefits

Stakeholder Relationships

- Providing Transparency
- Facilitating Communications
- Knowledge Sharing

Increased Resilience

- Beach and nearshore placement, thin layer placement –strategies allow habitats to perform their natural shore protection functions

Environmental Benefits

- Preservation of the habitats where DMMA's are created/Open Water Habitats
- Habitat creation