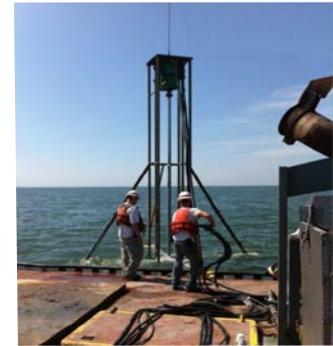


# Northeast Florida Regional Sediment Mgmt Nassau and Duval Counties, FL

US Army Corps of Engineers  
Jacksonville District

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**RSM-EWN IPRs & Working Meeting**  
Vicksburg, MS  
22-24 July 2014



# FY14 RSM-EWN IPR

## Jacksonville District, NEFL RSM Technote, Sirisha Rayaprolu

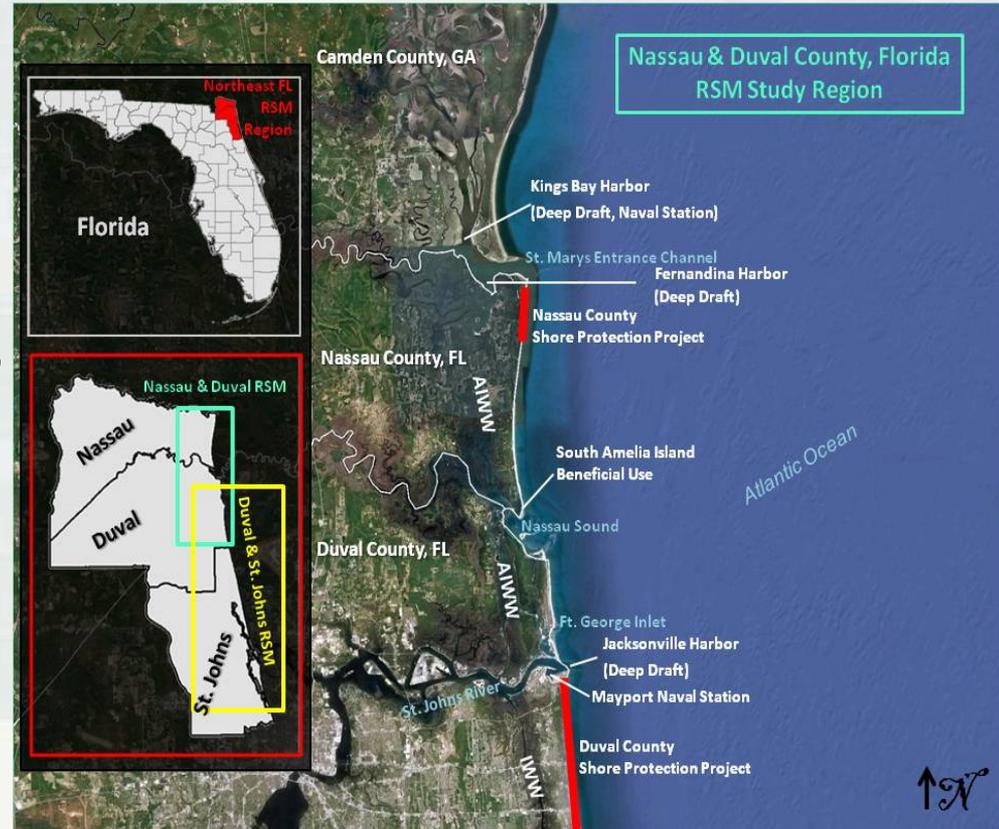
**BLUF:** Document RSM accomplishments, future opportunities, and limitations for the Federal projects in Nassau and Duval Counties utilizing established framework from the FDEP Inlet and Beach Mgmt Plans.

### Objectives

- Concepts outlined in FDEP IMP and Beach preservation plan
- Outline Federal projects in Nassau & Duval Counties
- Identify RSM successes and future opportunities
- Provide current and future strategies, alternatives, and recommendations to maximize RSM concepts

### Description/Challenges

- Integrated RSM principles across 3 deep draft harbors, 3 shore protection projects, 1 shallow draft Intracoastal Waterway, and 1 feasibility study
- Data availability and accessibility
- Agencies perception and consent

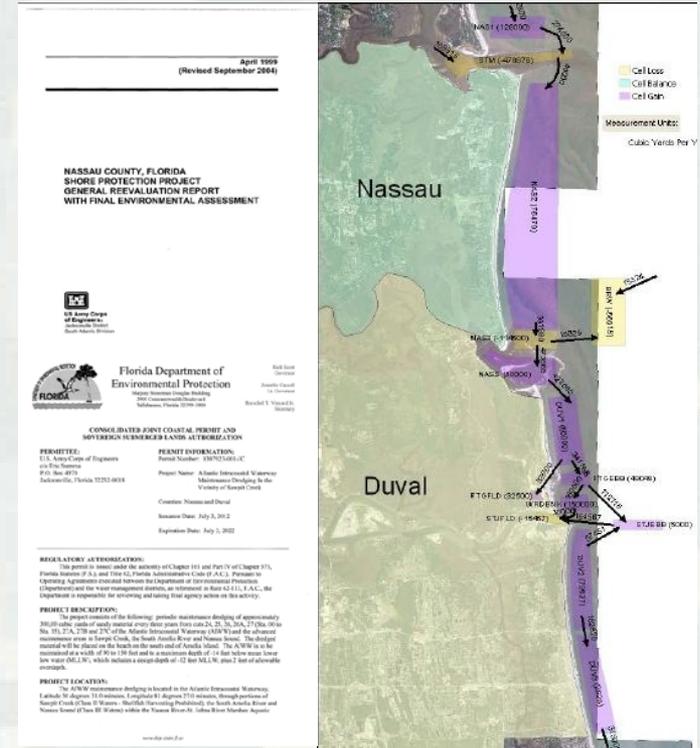


# FY14 RSM-EWN IPR

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### Approach

- Review legacy and FDEP planning documents
- Identify sediment sources and shore protection needs
- Attempt to maintain all beach quality material in the littoral system
  - SBAS integrated as add-in into ArcMap
- Outline authorities and permits that will enable dredging and placement of material
- Potential to use one project's authority to benefit another



### Deliverables

1. NEFL RSM Implementation Strategies and Recommendations Technote

(June 2014)

2. Meeting/Workshop

TBD



# FY14 RSM-EWN IPR

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### Accomplishments/Benefits/Lessons Learned/Actions-construction

- Beneficial use of Kings Bay O&M material: Nassau County SPP nourishment interval has increased from 5 years as authorized to 8 years as observed.
- Shoreline stabilization of south Amelia Island with material dredged from the IWW.
- Beach erosion at Mayport Naval Station alleviated with Jax Harbor O&M material.
- Successful RSM implementation outlined for projects that are not currently maximizing opportunities to keep sediment in the system
- Project managers have a framework to incorporate RSM principles into their projects and a path forward when existing authorities and permits are not sufficient.



# FY14 RSM-EWN IPR

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### Leveraging/Collaborative Opportunities

- Offloading US Navy DMMA's at Kings Bay for use in local South Amelia Island beach nourishment project.
- University of North Florida monitoring of beneficial use of Jax Harbor navigation material placed at Mayport Naval Station.
- Collaborating with FDEP to permit and place KBIC material in the nearshore to save DMMA capacity.
- Partnering opportunity to restore the tidal efficiency of Ft. George River Inlet.
- An RSM study is underway to optimize a dredging footprint to reestablish inlet efficiency and reduce erosional pressure on the adjacent shoreline of Little Talbot Island State Park.

### District PDT Members

**Kevin Hodgens, P.E.**

**Mike Neves, P.E.**

**Matt Schrader, P.E.**

### Stakeholders and Partners

**U.S. Navy**

**National Park Service**

**Florida Dept of Environmental Protection**

**Nassau County**

**Duval County**

**City of Fernandina Beach**

**City of Jacksonville**

**Olsen Engineering, Inc.**

