

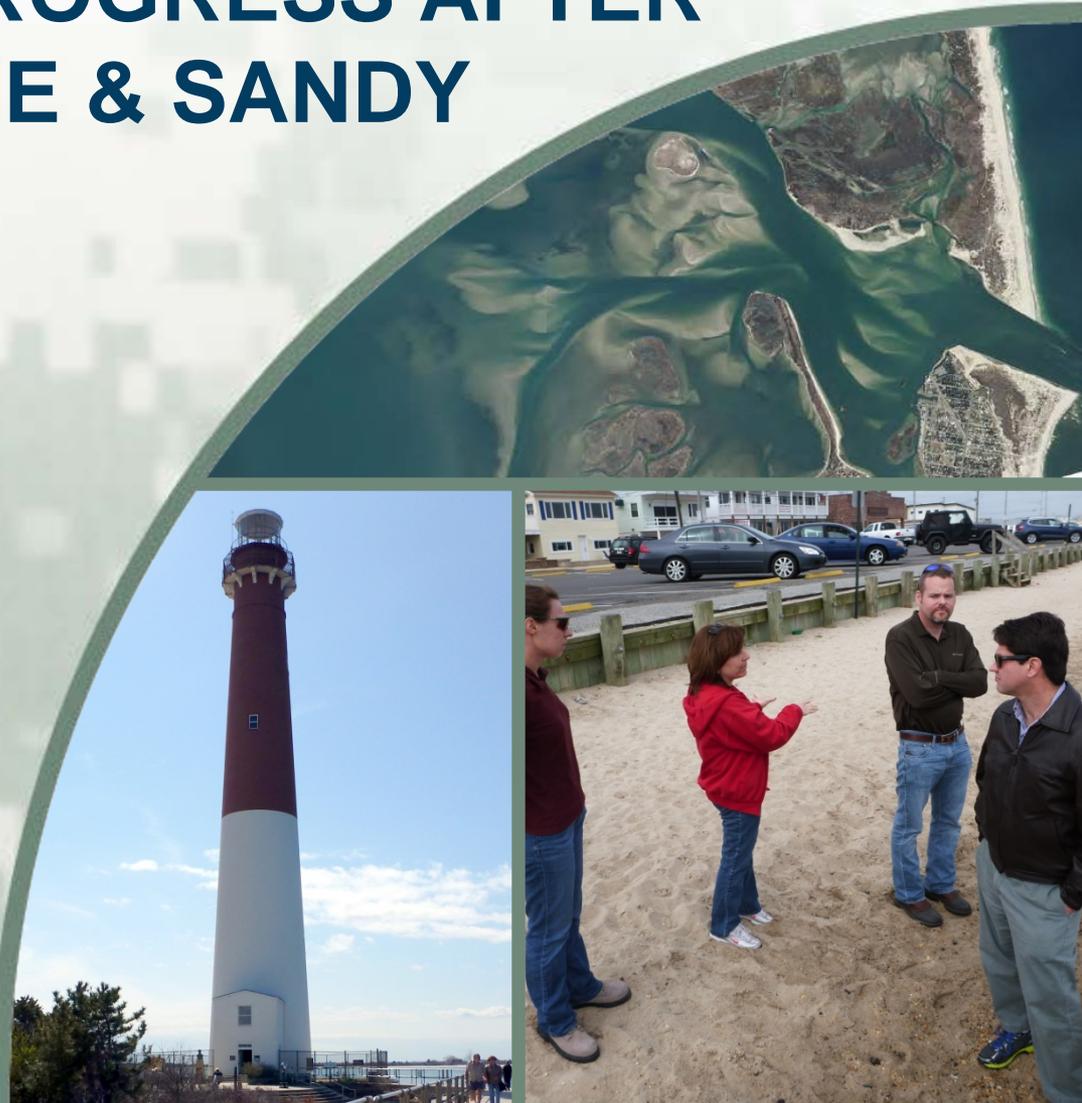
ACCELERATING PROGRESS AFTER HURRICANES IRENE & SANDY

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USACE Philadelphia District

And the Team....



**US Army Corps
of Engineers®**



FY14 RSM-EWN IPR

Philadelphia District, Post-Sandy RSM & EWN Actions, Monica Chasten

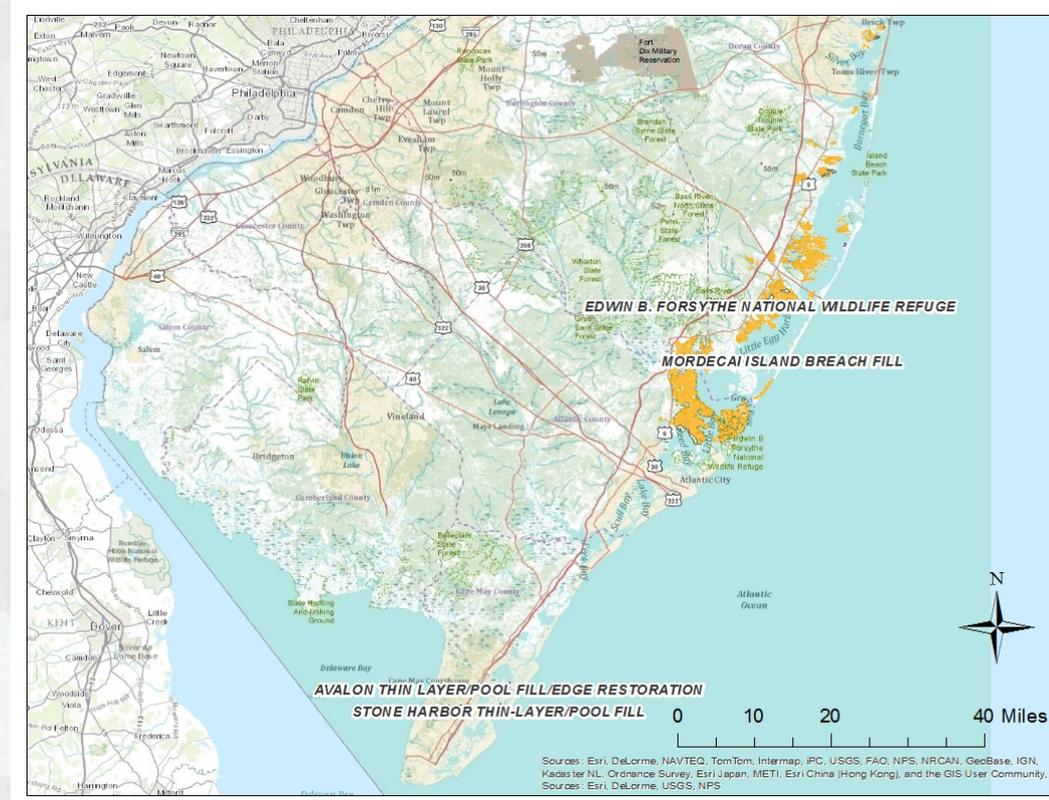
BLUF: Hurricane Irene (Sept 2011) and Superstorm Sandy (Oct 2012) impact the NJ coastline moving sand & debris into the NJIWW and other Federal coastal channels. Efforts seek to restore channels through dredging AND maximize opportunities for system recovery using RSM/EWN concepts.

Description/Challenges

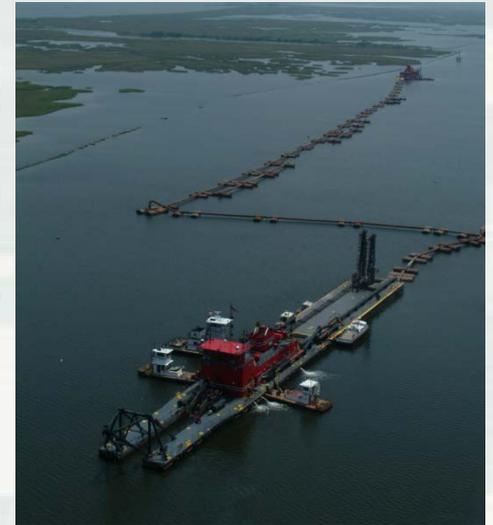
- District took action to restore the navigation mission, but also looked for opportunities to assist with shoreline & ecosystem recovery
- NAP and ERDC are using EWN and RSM concepts to develop short-term (post-Sandy) and long-term dredging strategies

Objectives

- Restore Region and Bolster System Resilience
- A Sediment Progression: From Confinement to In-Water Creation

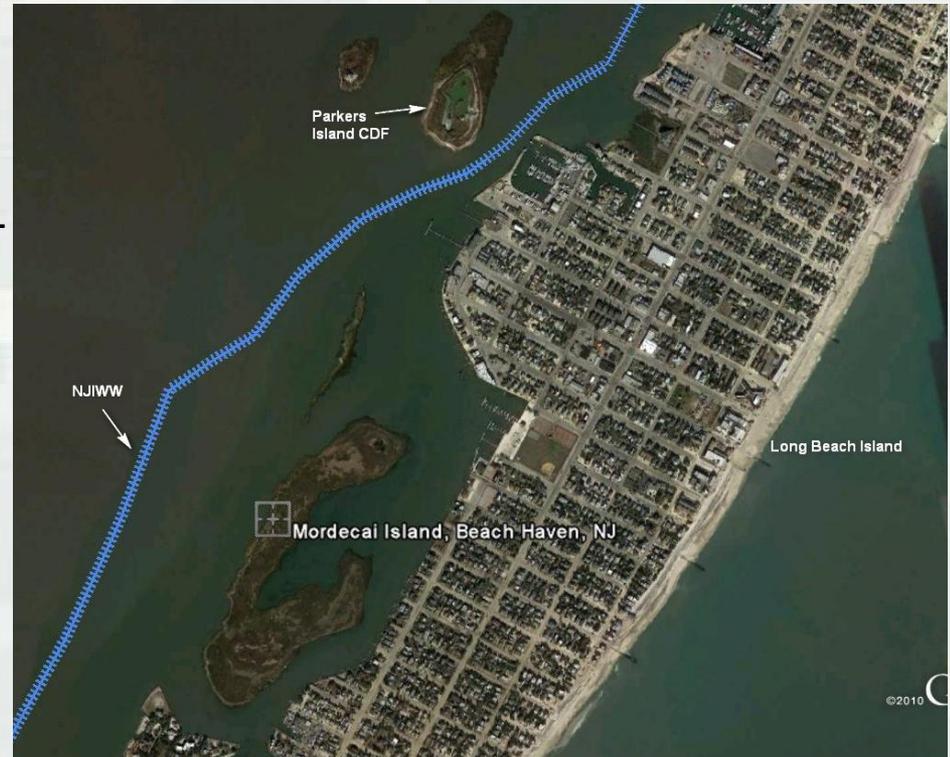


A Sediment Progression: From Confinement to In-Water Creation



Approach

- Accomplish short-term actions aided by support from NAD, SAW, ERDC, NAB, NJDOT & NJDEP
- Stakeholder & Resource Agency Meetings
- USACE Philadelphia awards Lease of Plant Dredging Contract (Feb 2013); *a key element for success since it builds in flexibility*
- Sediment Sampling & Analyses
- Conceptual Designs
- Funding to dredge thru Sept 14 so need to balance remaining projects
- Long-term strategies under development



Deliverables

Construct Projects
CERB Presentation
NESBPA Presentation
PIANC Workshop
Draft RSM/EWN Report

December 2012 to present
September 2013
September 2013
June 2014
September 2014



Navigation Channels with Nearshore Placement



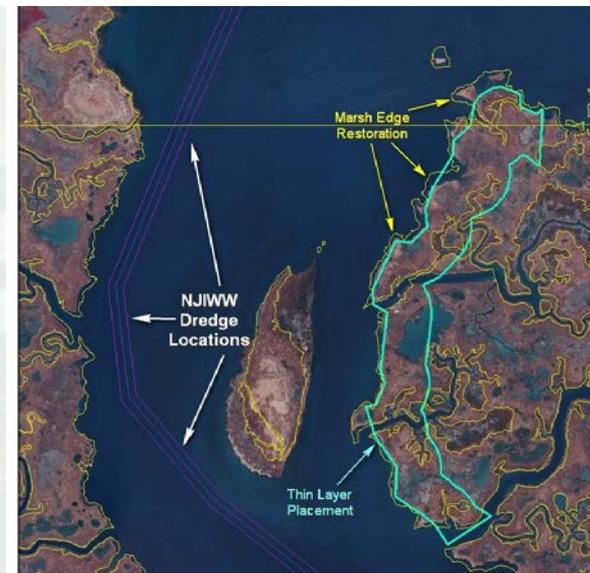
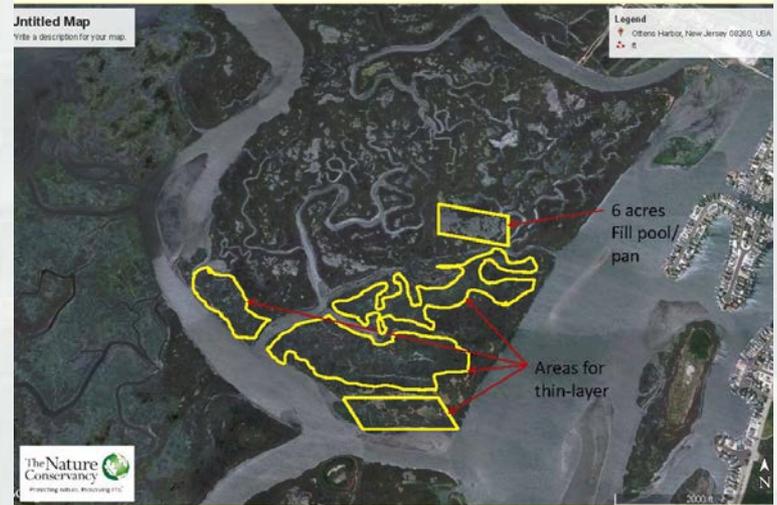
FY14 RSM IPR

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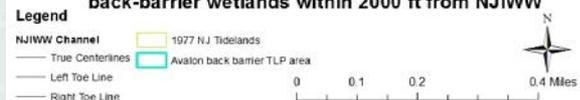
Accomplishments/Benefits/Lessons Learned/Actions-construction

- Completed “easy ones” first (NJIWW Mantoloking, Tow Island, Absecon Inlet, Barnegat Inlet, Cold Spring Inlet, Manasquan Inlet); new and improved
- Recovery and resiliency work continues with more challenging dredge and placement areas of NJIWW
- Challenges include: regulations and approvals, resource agencies, understanding sediments, environmental windows, cost and constructability
- Collaboration and learning on thin layering & marsh restoration techniques
- NFWF Proposal: Need to partner, monitor and tell the Good News!

• Small actions hopefully lead to large shift within NJ and future O&M funding



Potential thin-layer placement area on Avalon back-barrier wetlands within 2000 ft from NJIWW



PDT Members

- NAP Operations Division
- NAP Planning Division
- NAB Operations Division
- ERDC, CHL & EL

Stakeholders and Partners

- NJ Dept of Transportation
- NJ Div of Fish & Wildlife
- The Nature Conservancy
- USFWS, NMFS, Mordecai Land Trust

Leveraging/Collaborative Opportunities

- O&M and Sandy Supplemental Funds
- NFWF Grant with NJDFW/TNC
- Mordecai Island Section 1135 (Planning)
- NJ Dept of Environmental Protection
- NJ Dept of Transportation
- USFWS
- ERDC Research Efforts (RSM, EWN, DOTS, DOER, etc)
- Other Post-Sandy Efforts
- Dredge Industry

