



Coastal Resilience



Bureau of Ocean Energy Management's Role

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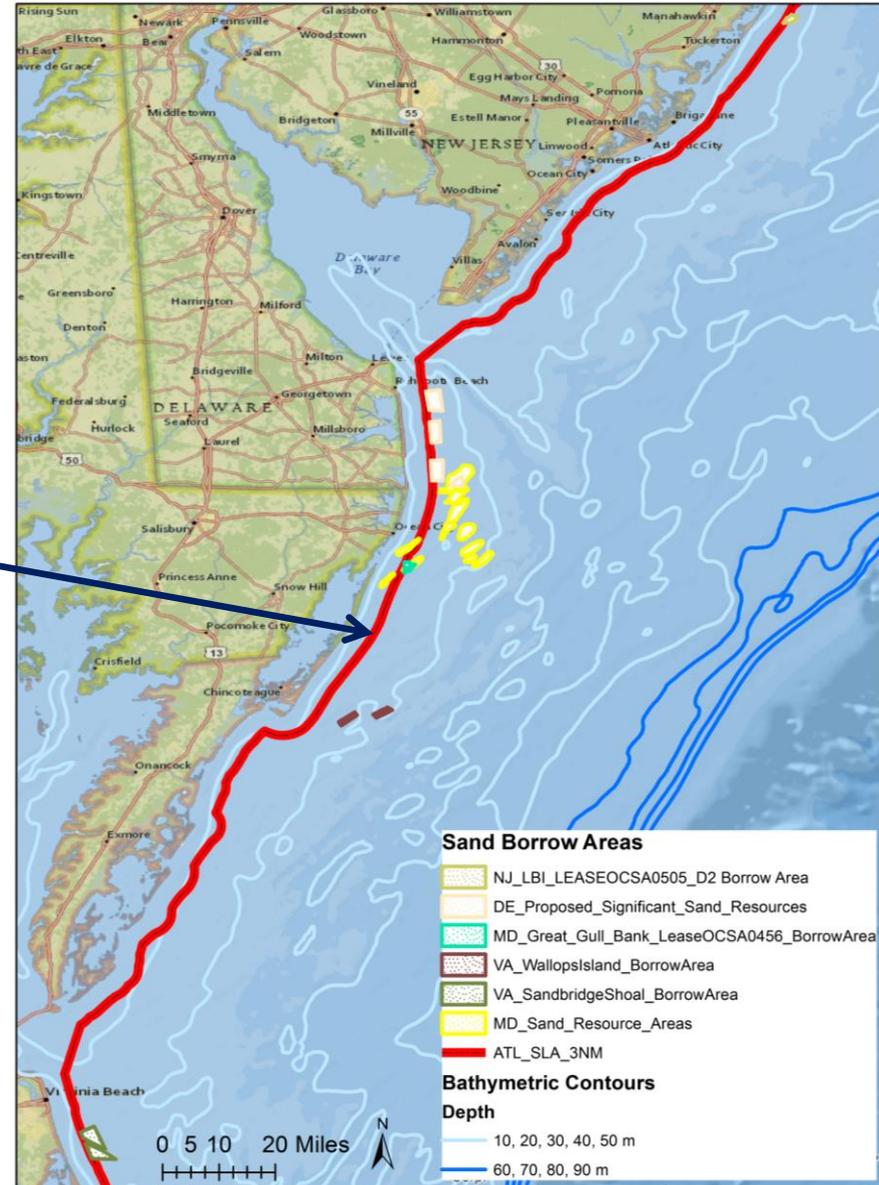


- **BOEM's Role in Regional Coastal Resilience**
- **Atlantic - Hurricane Sandy efforts**
 - **State Cooperative Agreements**
 - **Atlantic Sand Assessment Project**
 - **Environmental Monitoring**
- **Gulf of Mexico**
 - **Focus on Ecosystem Restoration**
 - **Caminada Headlands, LA**
- **Challenges and Priorities for the Future**



Outer Continental Shelf Lands Act (OCSLA) (43 U.S.C. 1331, et. seq.)

Outer Continental Shelf (OCS) or Federal jurisdiction begins 3 nautical miles (nm) from shore (but 3 leagues or 9 nm offshore Texas and west coast of Florida) and extends 200 nm



- Limited resources in state waters
- Use of OCS sand avoids wave impacts to shoreline
- Input of offshore sand to nearshore sand budget
- Improve long-term sustainability and geomorphic function of resources
- BOEM takes a regional approach to managing these important resources



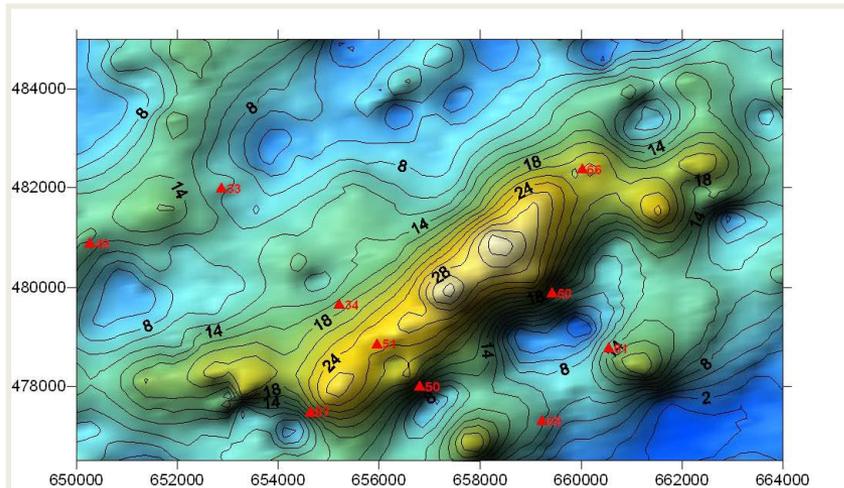
- Regional Sand Management Working Groups
- Regional Ocean Partnerships – Northeast Regional Ocean Council (NROC) and Mid-Atlantic Regional Council on the Ocean (MARCO)
- USACE North Atlantic Coast Comprehensive Study (NACCS)
 - Sand resources for coastal infrastructure planning
 - Regional Sediment Management
- National Disaster Recovery Framework (FEMA) Natural and Cultural Resources Recovery Coordination (DOI lead)



- **BOEM - \$13.6 M Disaster Relief Appropriations Act**
- **State Cooperative Agreements**
 - ✓ Executed w/ 13 Atlantic coastal states last year
 - ✓ Analysis of existing sand resource data and determination of sand needs
 - ✓ \$400K NY & NJ; \$200K for remaining states
- **Atlantic Sand Assessment Project**
 - ✓ Sept 2014 CB&I – shallow geophysical survey and geologic sampling
 - ✓ Approx. \$5 million
 - ✓ ME to Miami, FL
- **Environmental Monitoring**
 - ✓ Canaveral Shoals, FL
 - ✓ Approx. \$3 million

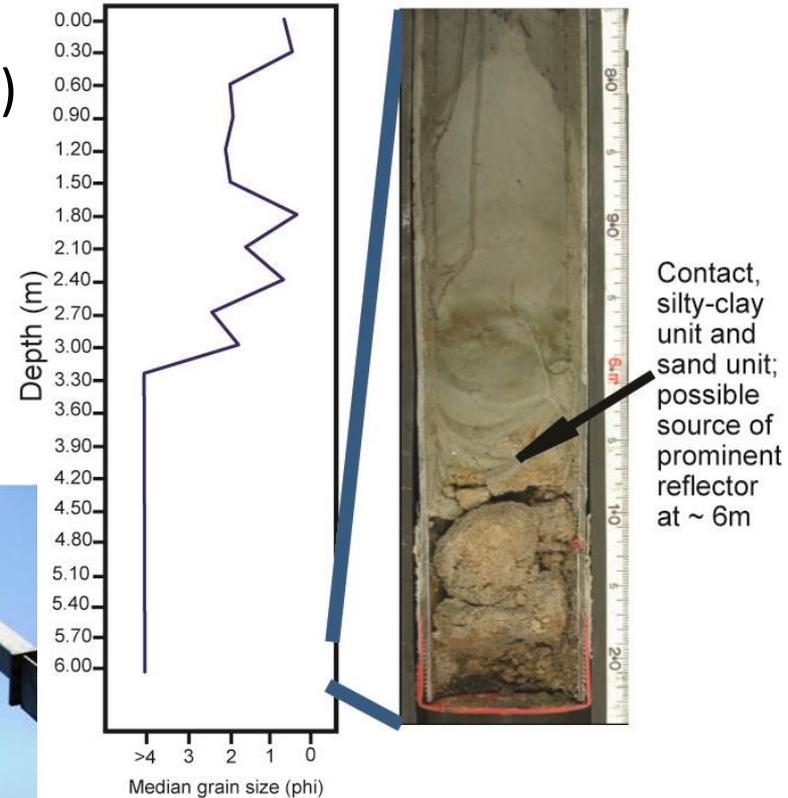


- Assess and aggregate OCS resource data along Atlantic
- Increase availability of data
- Determine future need for sand
- Facilitate coordination and collaboration between BOEM and states
- Identify data gap areas for future surveys



- Data Acquisition Plan in coordination w/ states
- Data Collection (to begin early Spring 2015)
- Surficial Geology and Sediment
- 3 – 8 nm offshore
- Maine to Miami, Florida
- Reconnaissance and Site-Specific Level

Median grain size Core photograph



Contact, silty-clay unit and sand unit; possible source of prominent reflector at ~ 6m

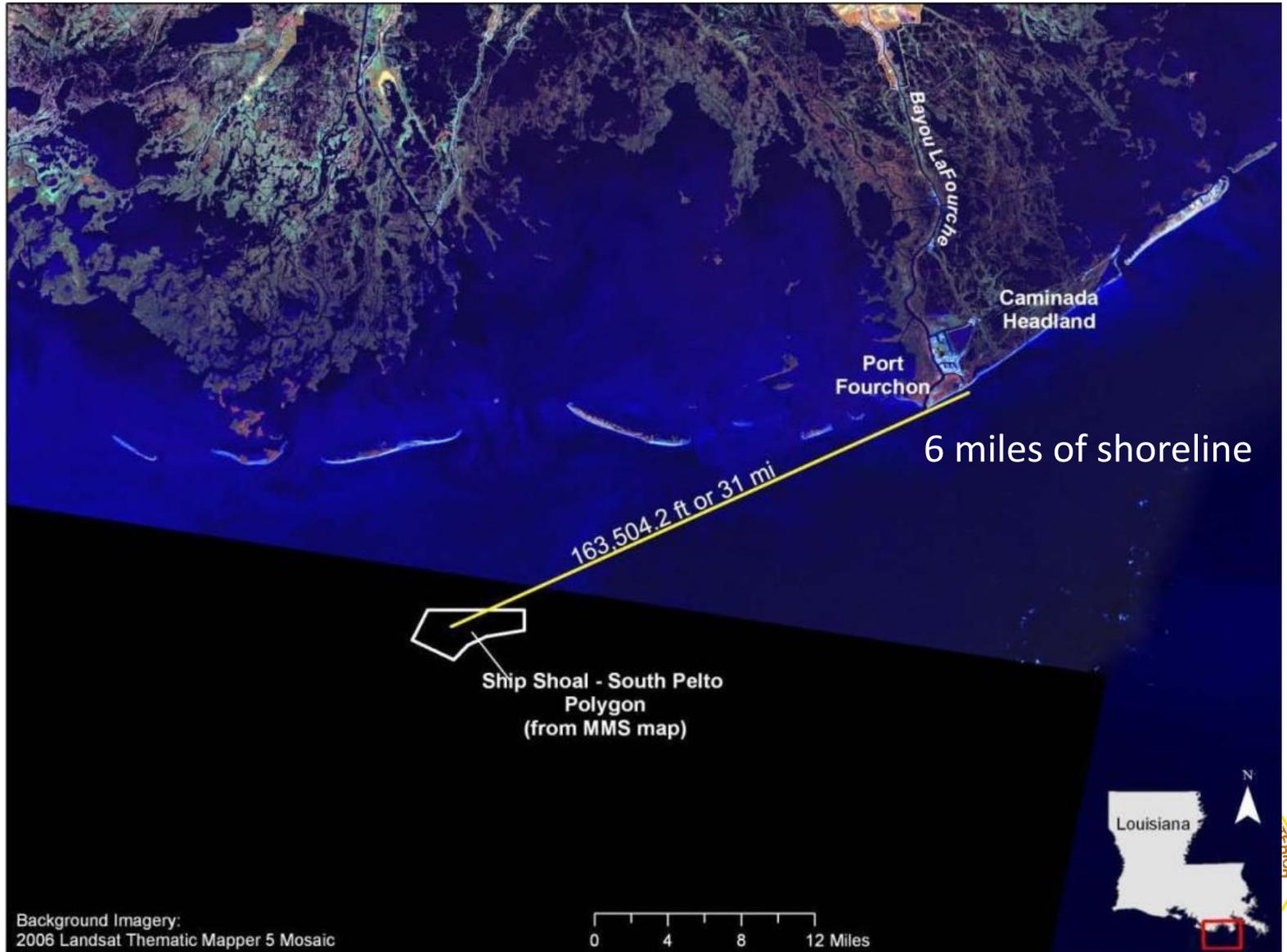




- **Long Beach Island, NJ** (7 mcy)
MOA - 1 July 2014
construction in 2015
- **NASA Wallops Island, VA** (1 mcy)
MOA - 14 Nov 2013
constructed June 2014
- **Sandbridge Beach, VA** (2.2 mcy)
MOA - 11 October 2012
constructed June 2013
- **Brevard County, FL** (2.4 mcy)
MOA - 12 July 2013
constructed April 2014



Caminada Headland Restoration, LA



Caminada Headland Restoration, LA



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Image courtesy of Louisiana CPRA

Participate in regional planning groups such as:

- RESTORE Act Regional Regulatory Groups (AL, LA, TX)
- DOI RESTORE Act Science Coordination Team
- Gulf of Mexico Alliance, Regional Sediment Management Team
- OCS Sand Management Working Group
- Gulf Coast Ecosystem Restoration Task Force



FY 2015 (funded)

- Extending Canaveral Shoals FL Monitoring
- Development of a Decision Support Tool to Reduce Sea Turtle Dredging Entrainment Risk
- Managing Dredge Impacts by Optimizing the Use of Sand Resources
- Request for Proposals issued later this year

FY 2016 – 2018 Studies Development Plan

- Potential studies
- Timeline



- Comprehensive inventory of OCS sand resources
- Regional planning and management of resources
- Continued coordination with states as well as other Federal partners and stakeholders
- Understanding physical evolution of sand resources areas and the physical and biological recovery of dredged areas



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