

Landscape Evolution of the Oil Spill Mitigation Sand Berm in the Chandeleur Islands, Louisiana

Glenn M. Suir

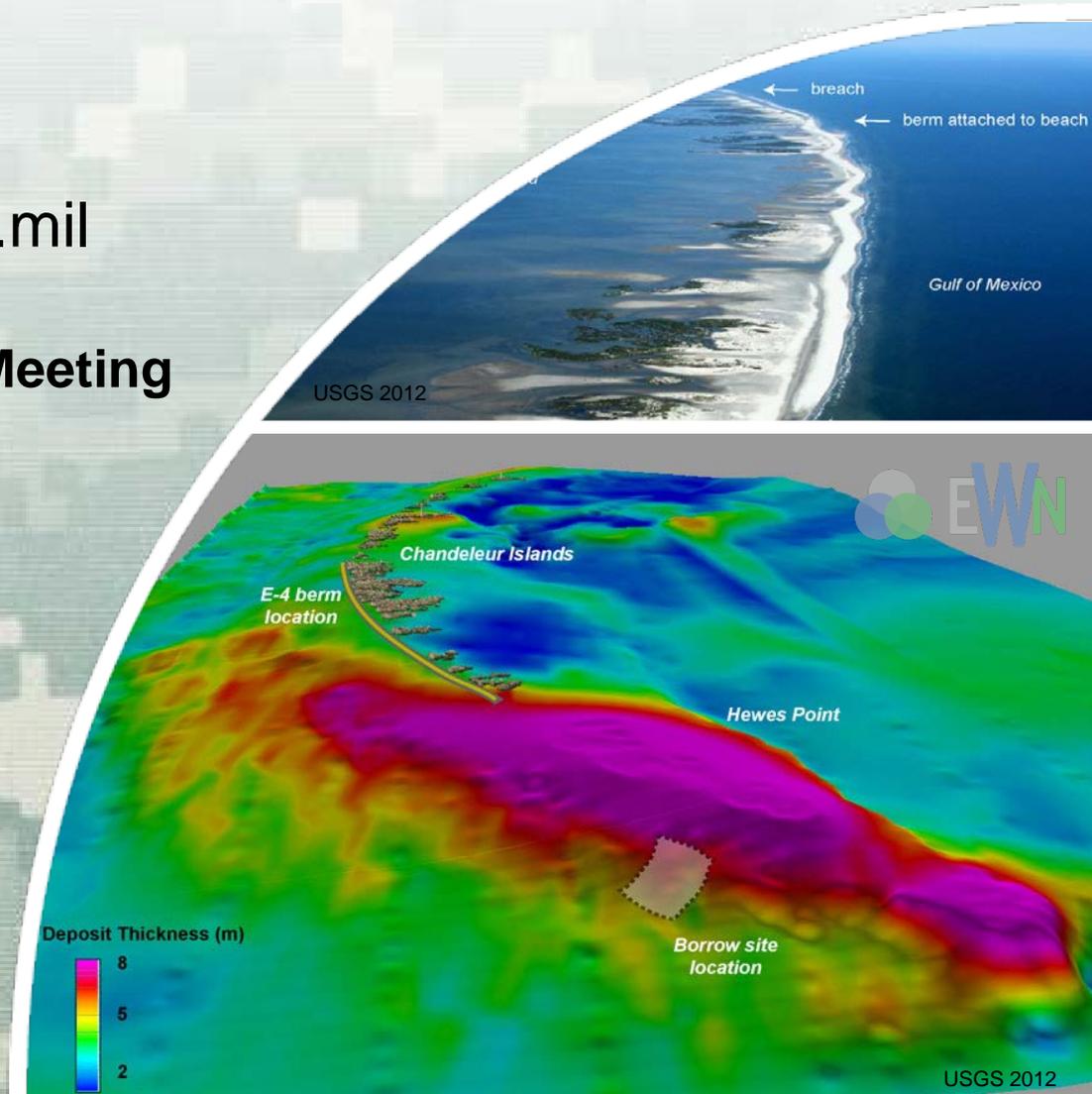
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RSM-EWN IPRs and Working Meeting

Vicksburg, MS

22-24 July 2014



EWN FY14 IPR



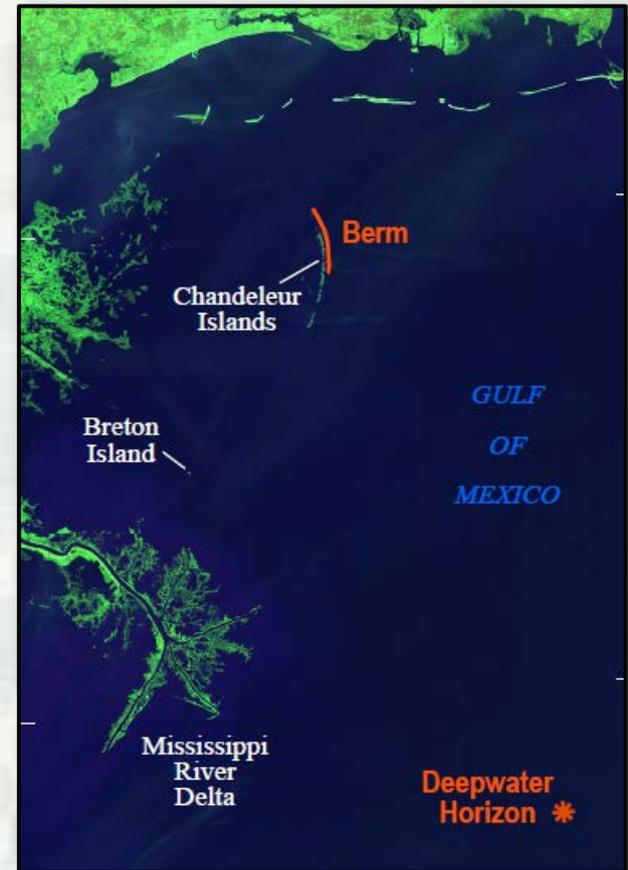
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Problem

- Deepwater Horizon spill
- Sensitive ecosystem resources
- Mitigation sand berm constructed
- Berm intended to be sacrificial

Objectives

- Quantify berm evolution
- Monitor berm resilience & performance
- Assess impacts and benefits



Plant and Guy, 2012



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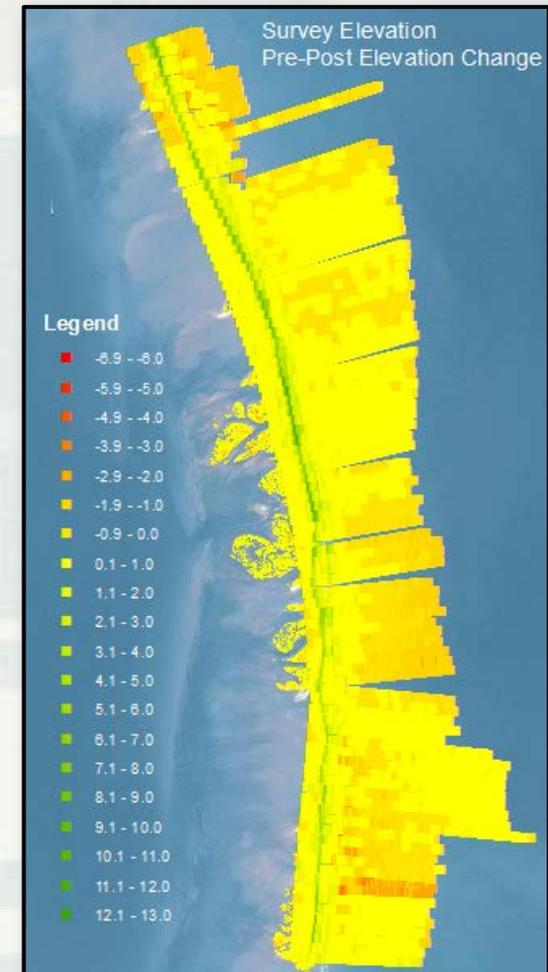
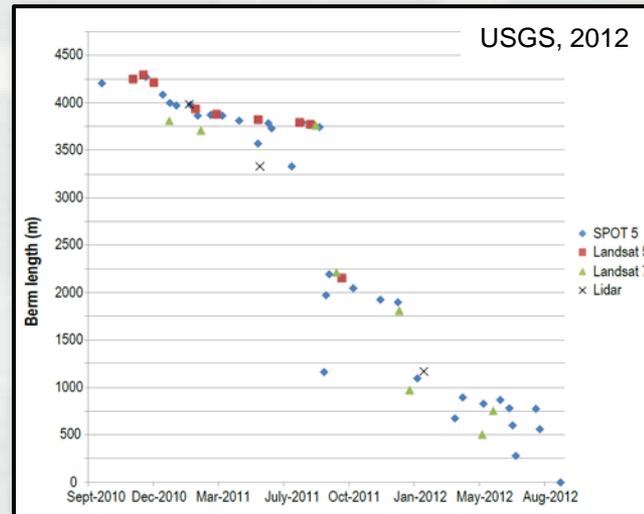
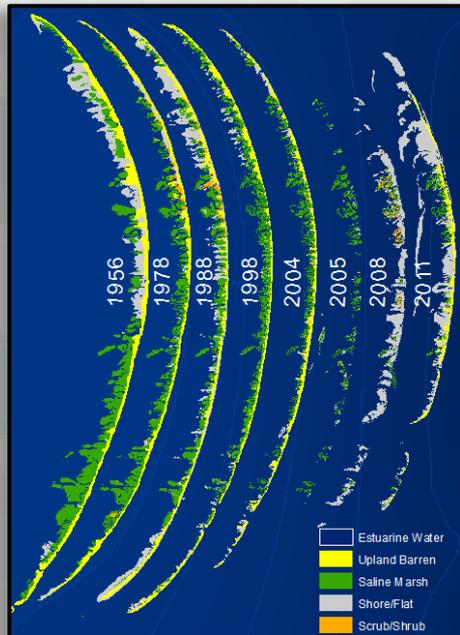


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Approach

- Partner with USGS NWRC
- Landscape and habitat analyses (area/length)
- Elevation/profile changes (survey and LiDAR)
- Sediment reworking – unconsolidated bottoms



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-  **Project Funding by Year**
 - FY14: \$55K (New Start)

-  **Major Project Deliverables**
 - Draft TR by 9/14
 - Published TR by Q1FY15

-  **Benefits and Impacts for USACE Civil Works**
 - Case-study
 - Berm performance and resilience
 - Assess impacts and benefits of scarce sand resources



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FY14 Products

- Collaboration and Coordination with USGS NWRC, MVN, SHAW Group Inc., and LaCPRA
- Promoted on WETRF Wiki page
- EWN Project Fact Sheet
- ERDC Technical Report

