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

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EWN FY14 IPR
Chandeleur Island Sand Berm, Glenn M. Suir

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
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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
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
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