Advances in Sediment Management Strategy for the Northern Gulf of Mexico Quenton Dokken, Ph.D. **President/CEO** Gulf of Mexico Foundation, Inc.



Gulf of Mexico Alliance Habitat Conservation & Restoration Team

Gulf Regional Sediment Management Master Plan

Managing for the Beneficial Use of Sediment Resources

Technical Framework

HCRT RSM Plans Developed

Coastal Mississippi West Galveston Bay, TX

Case Studies Chapter 12 Projects Examined



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Gulf Regional Sediment Management Master Plan

GRSMMP Technical Framework

Regional information on processes and sediment resources supporting effective management guidelines, sub-regional strategies, and cooperative management decisions

GRSMMP Case Study Compilation

12 case studies of projects selected to provide examples that demonstrate the application of RSM principles

RSM Master Plan Update for Coastal Mississippi

2002 plan updated in 2011 to reflect changes since severe storm activity passed through the region

West Galveston Bay RSM Project

A first-ever RSM plan for the system



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Factors Affecting Sediment Dynamics

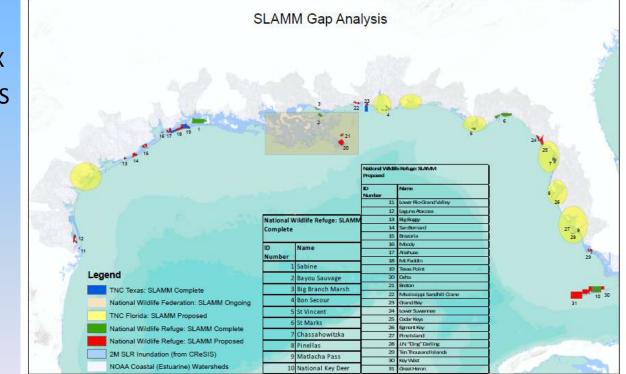
- Channelization of Mississippi River
- Dredging and maintenance of Intracoastal Waterway
- Damns on minor river systems for water supply and flood control
- Alterations of shorelines with hard structures
- Funding for dredging operations

Habitat Conservation & Restoration Team TECHNOLOGY DEVELOPMENT

Sea-Level Rise Affecting Marsh Model (SLAMM)

HCRT Sites Jefferson County, TX Grand Bay NERR, MS Galveston Bay, TX 6 NWR sites

Data Platform Development

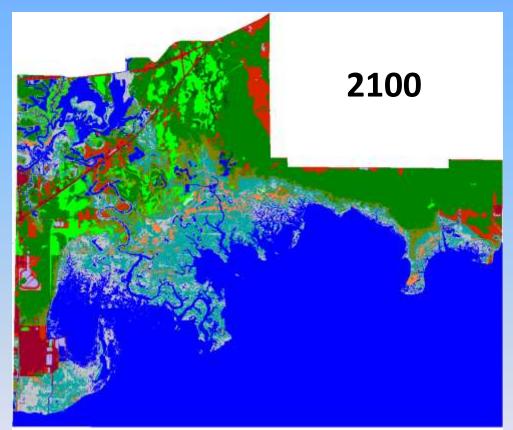


Habitat Conservation & Restoration Team TECHNOLOGY DEVELOPMENT

SLAMM Scenarios

Adaptation strategies

Sediment management is key

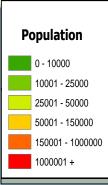


Grand Bay, MS



COASTAL POPULATIONS

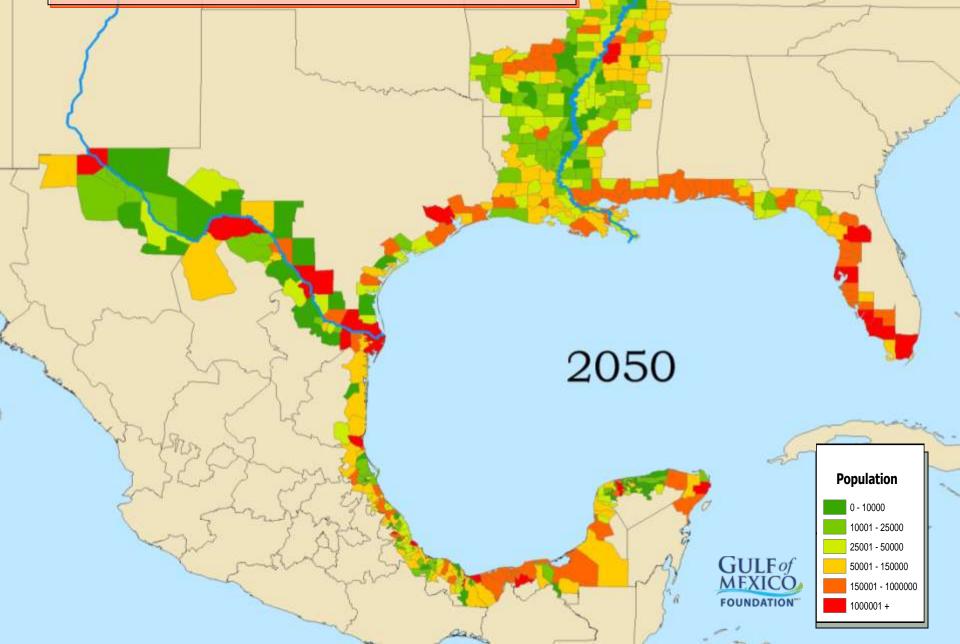




GULF of MEXICO

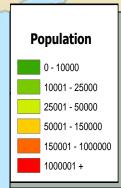
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COASTAL POPULATIONS



COASTAL POPULATIONS





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BENEFICIAL USE OF DREDGED SEDIMENTS IS NOT AN OPTON - IT IS ESSENTIAL!

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