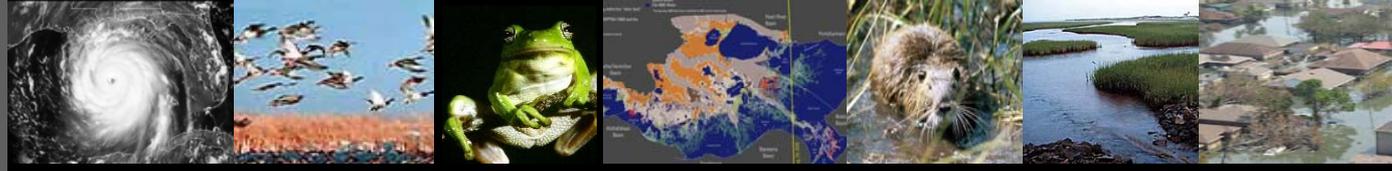
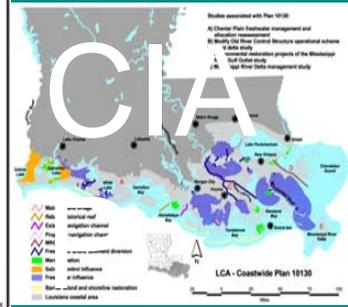
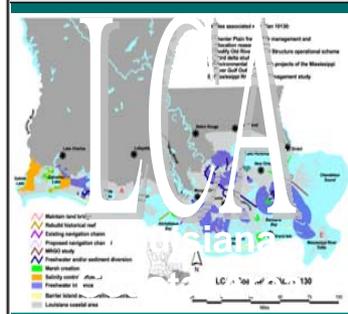
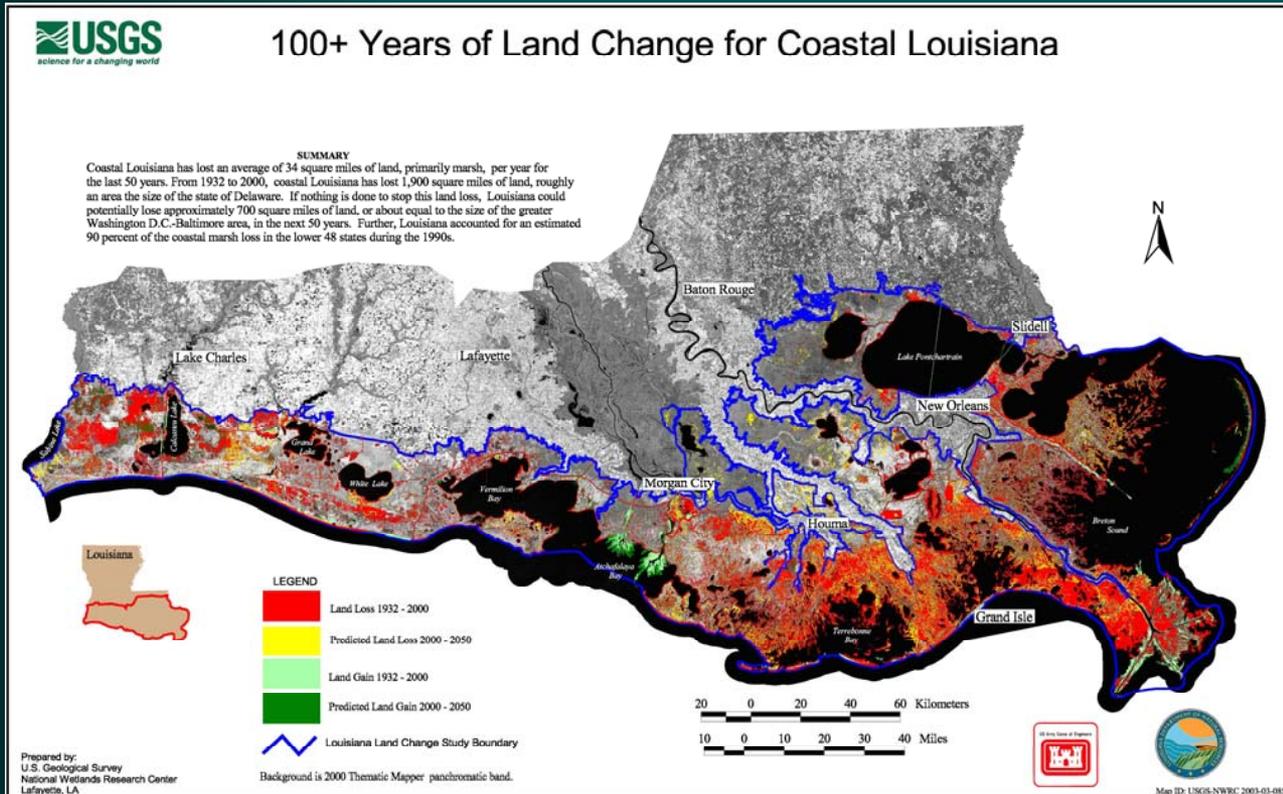


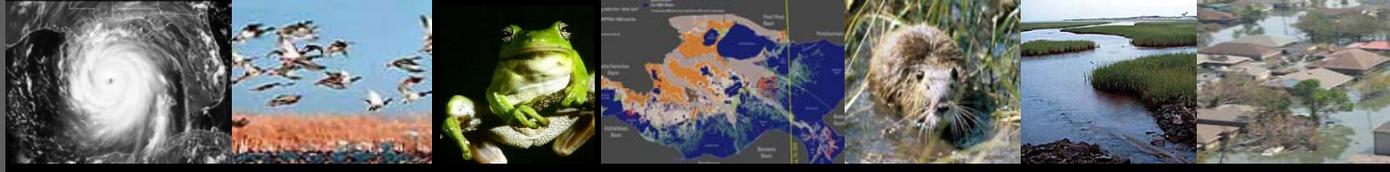
USGS National Wetlands Research Center



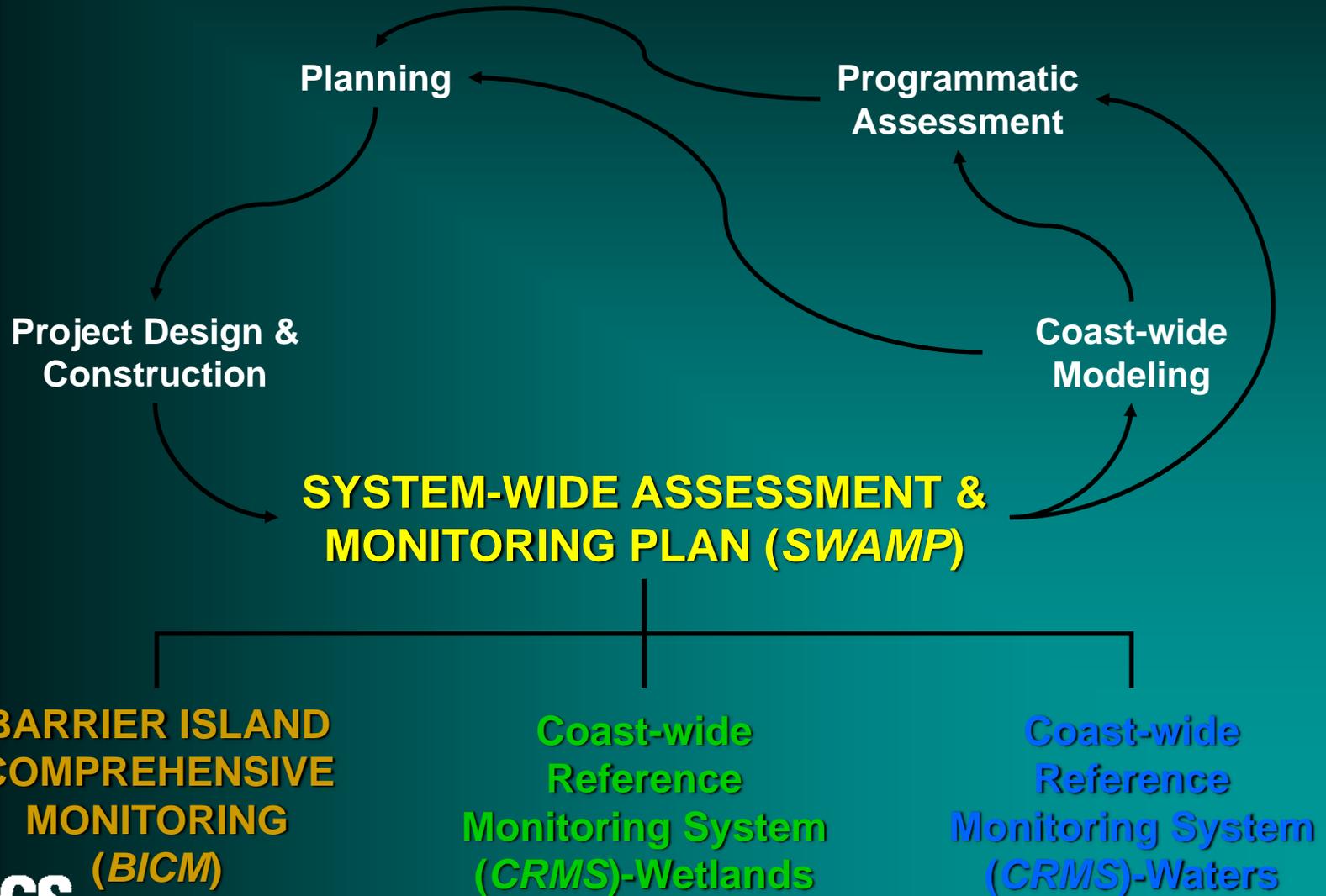


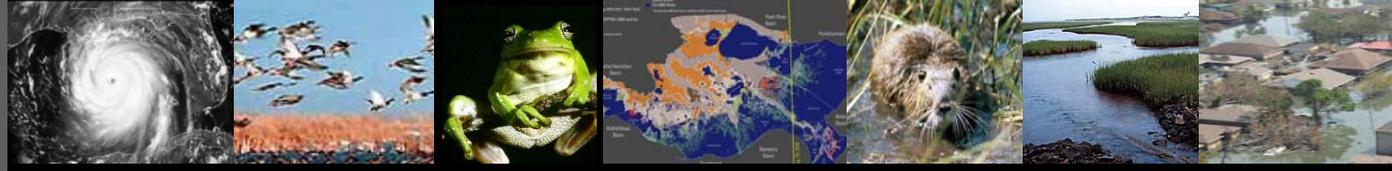
Coastal Land Loss Mapping and Restoration Planning





SWAMP: Program Elements



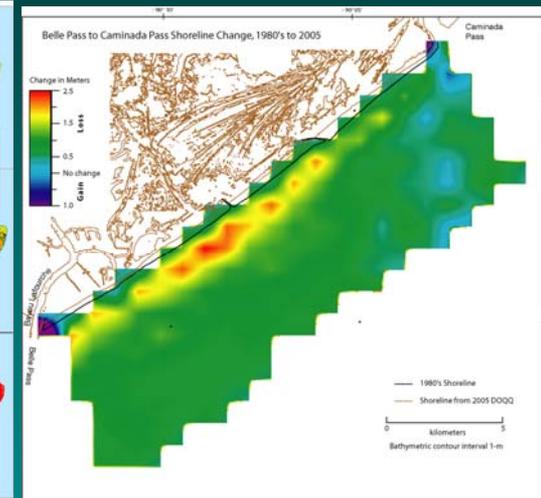
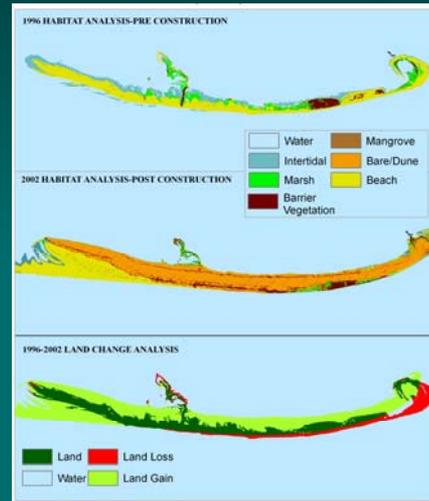


Barrier Island Comprehensive Monitoring (BICM)

Shoreline Change/Land Loss

Habitat Change

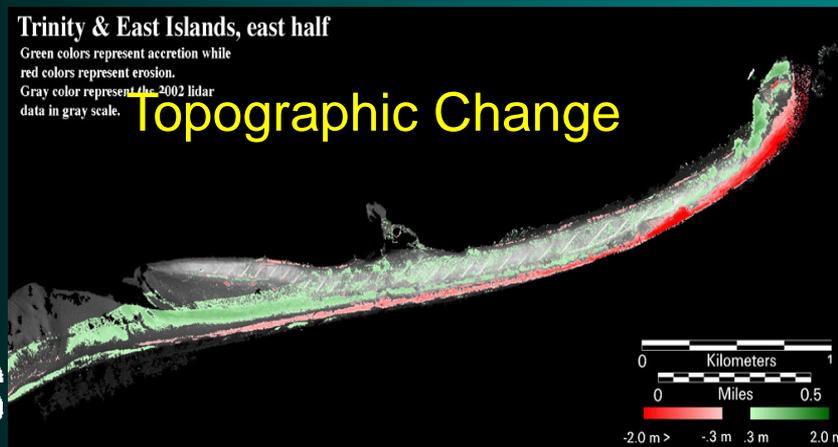
Bathymetric Change

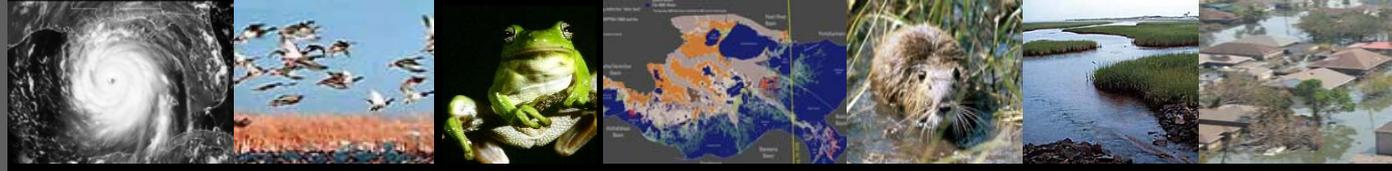


Trinity & East Islands, east half

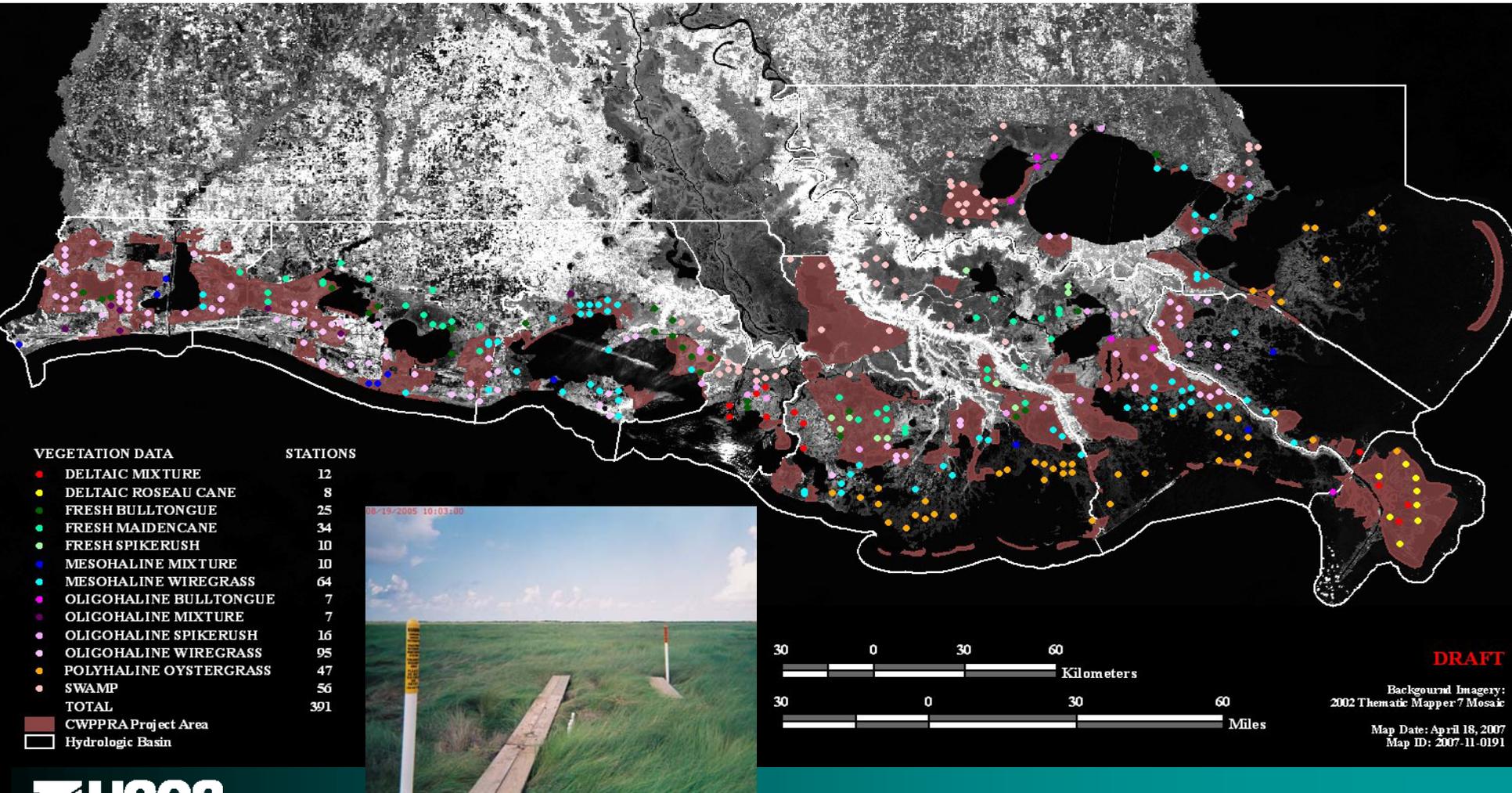
Green colors represent accretion while red colors represent erosion. Gray color represent the 2002 lidar data in gray scale.

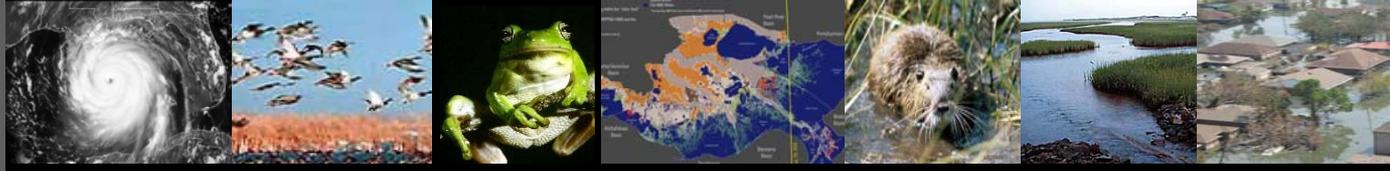
Topographic Change



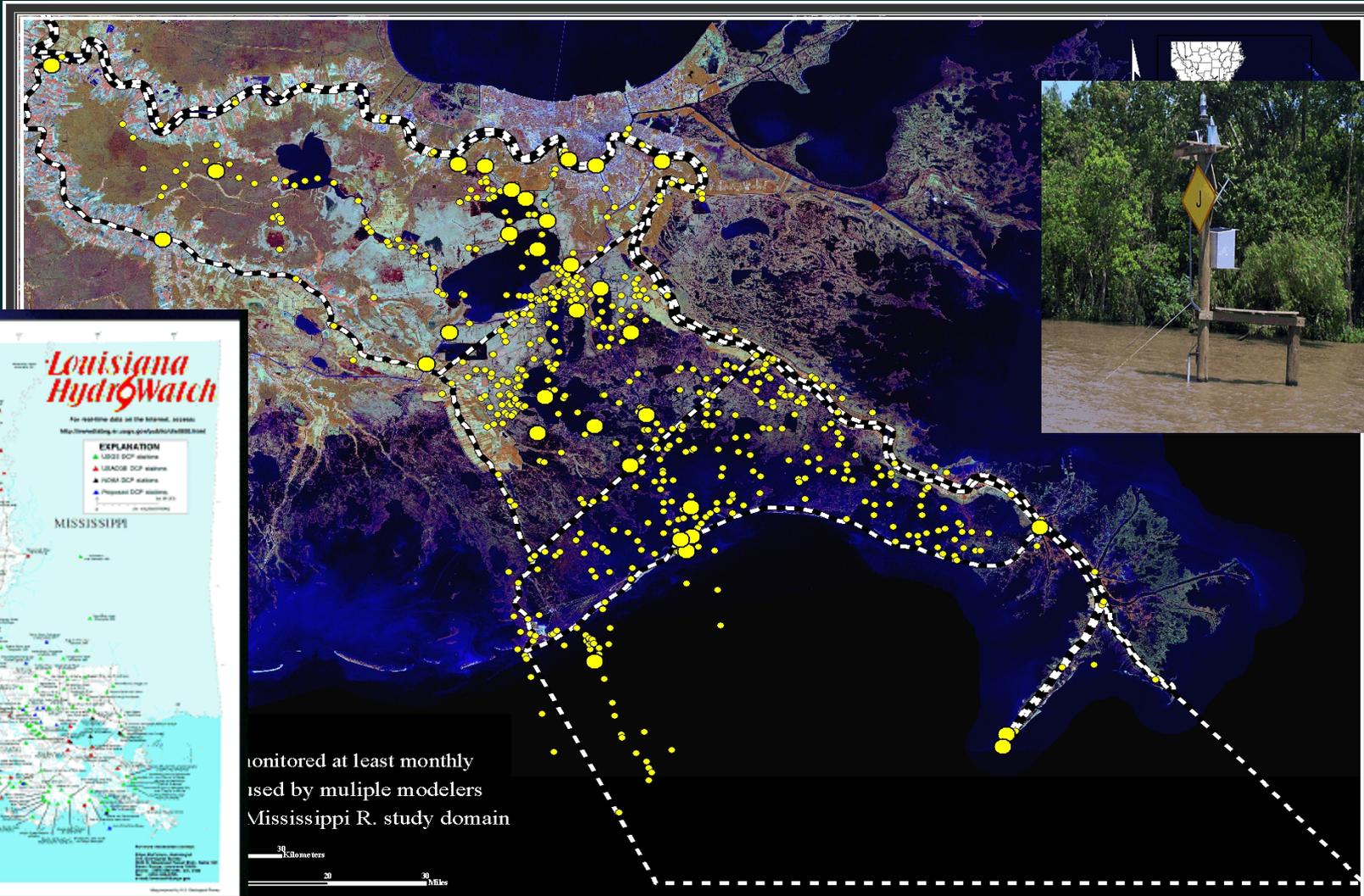


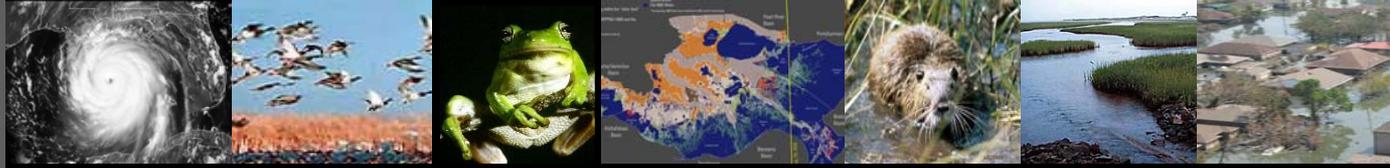
Coastwide Reference Monitoring System - Wetlands



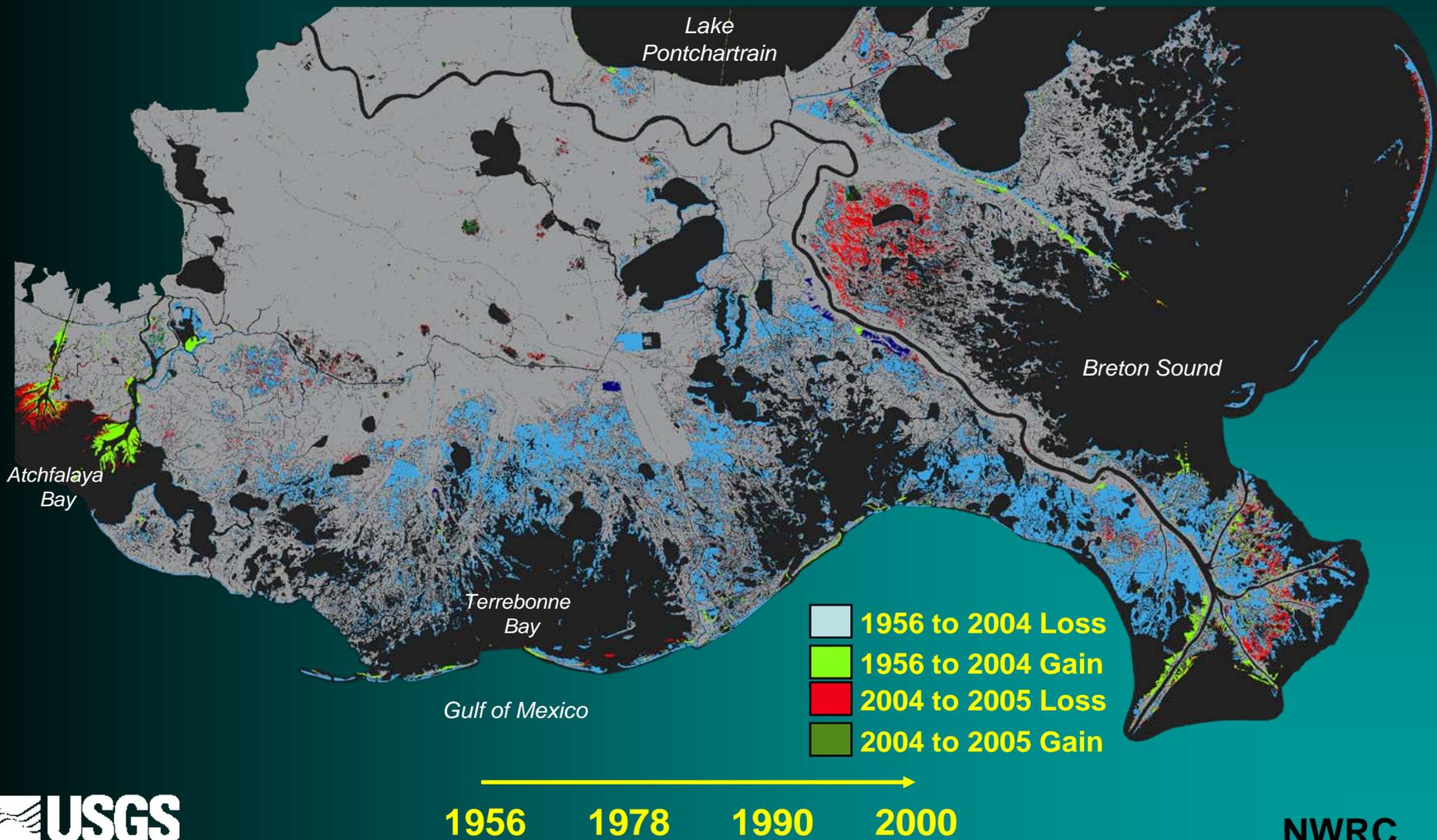


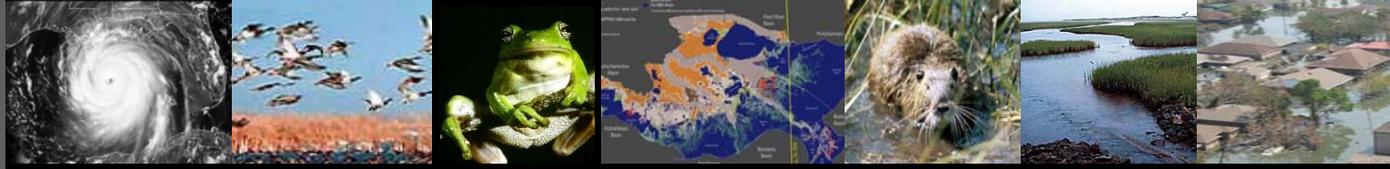
Coastwide Reference Monitoring System - Waters



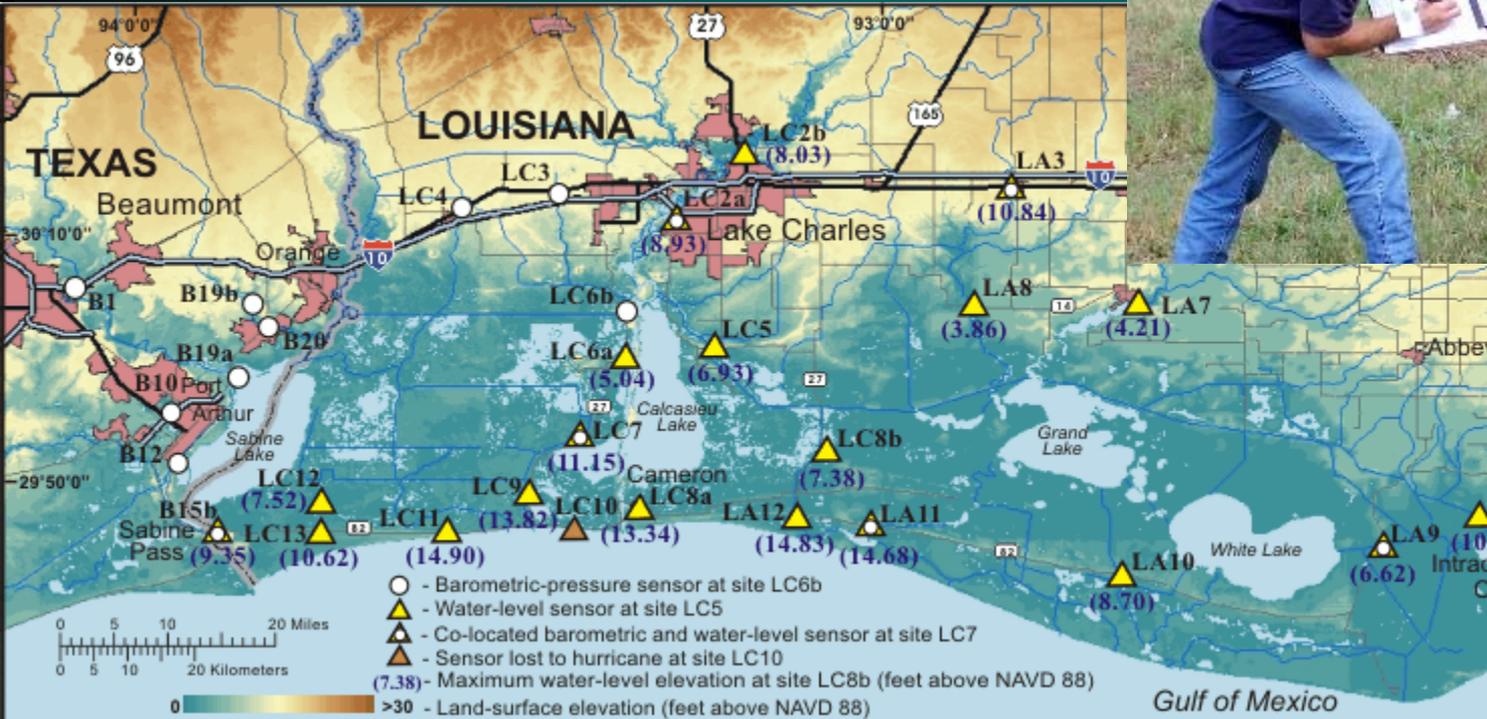


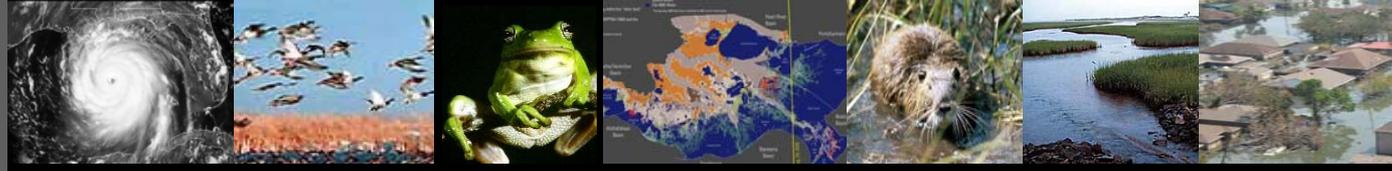
Landscape Change: Katrina Impacts



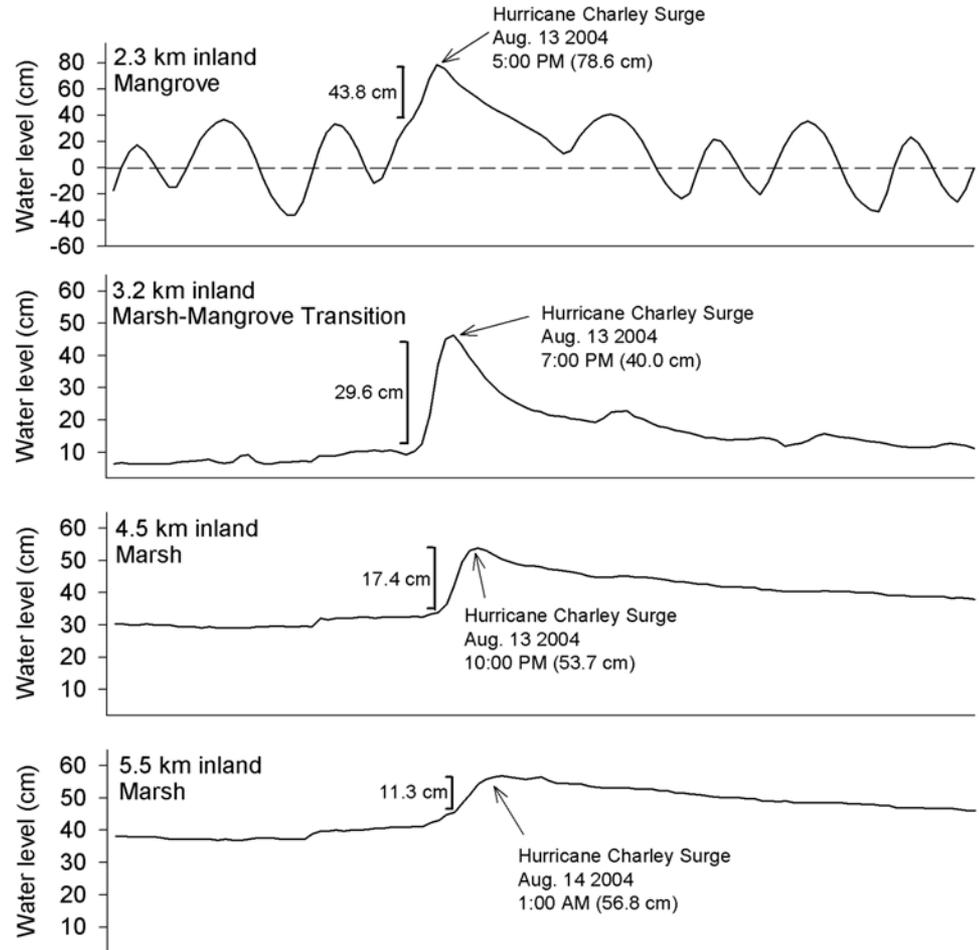
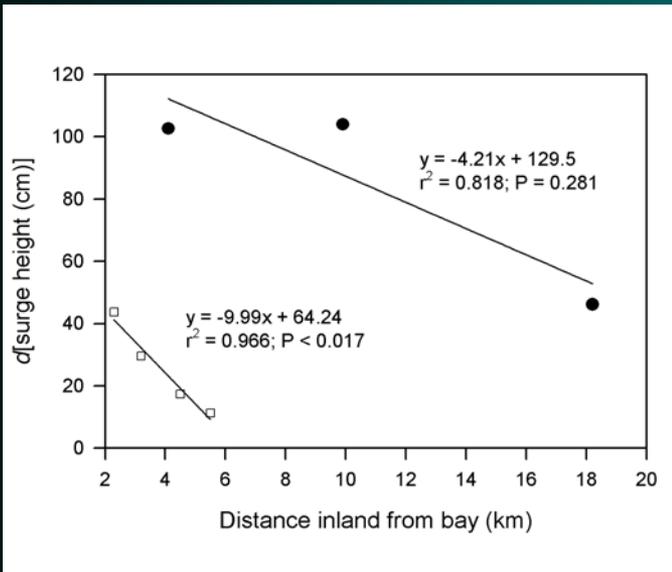


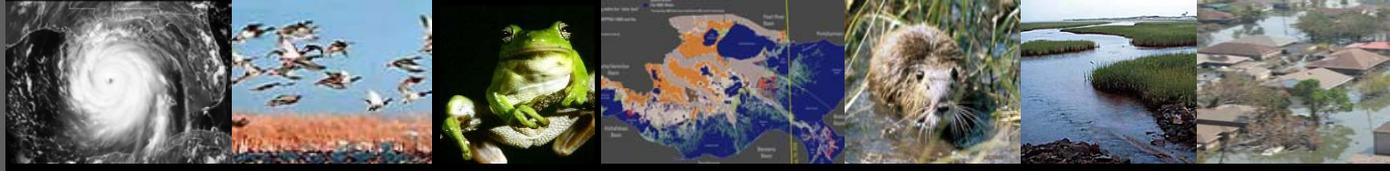
USGS Storm Surge Sensor Network



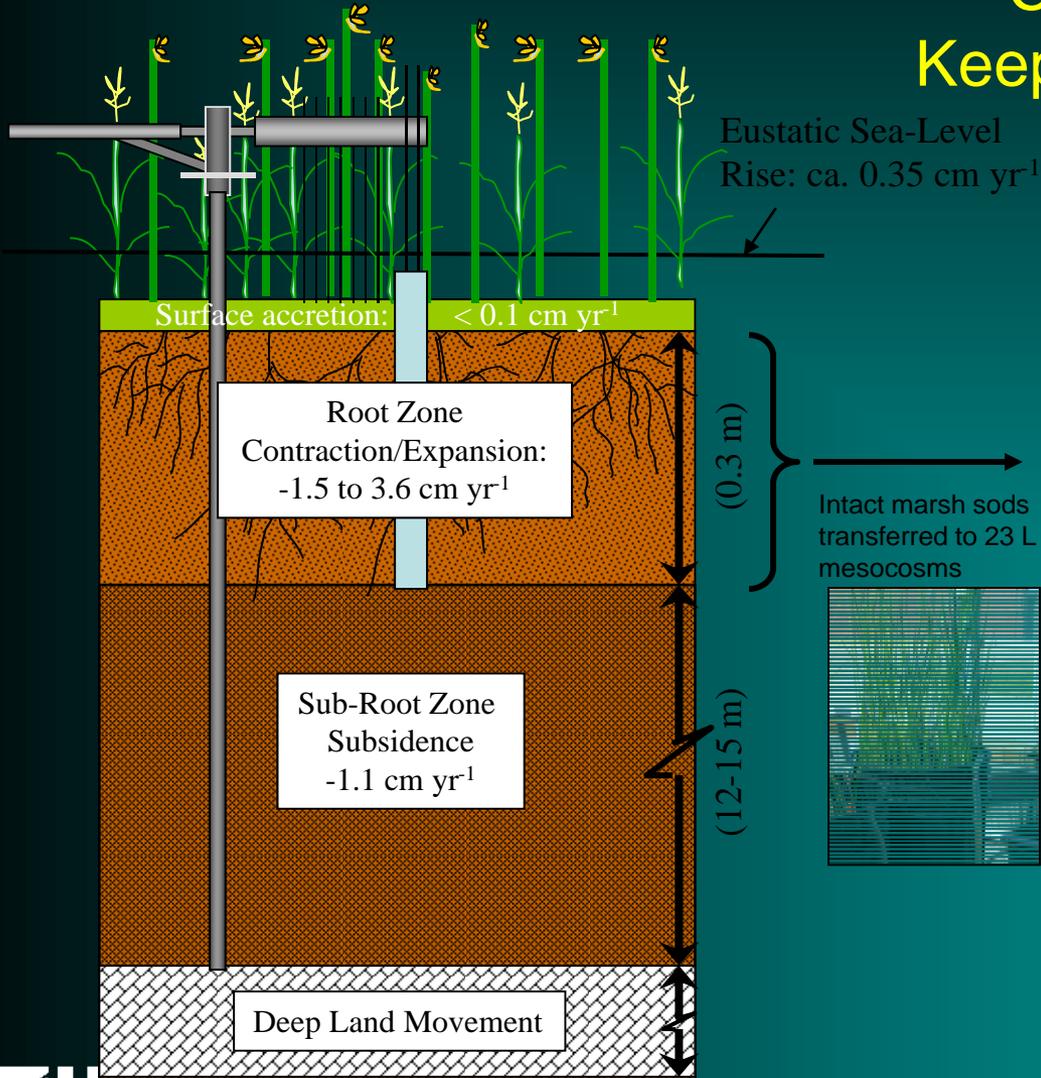


Storm Surge Conveyance of Wetlands





Brackish Marsh Community

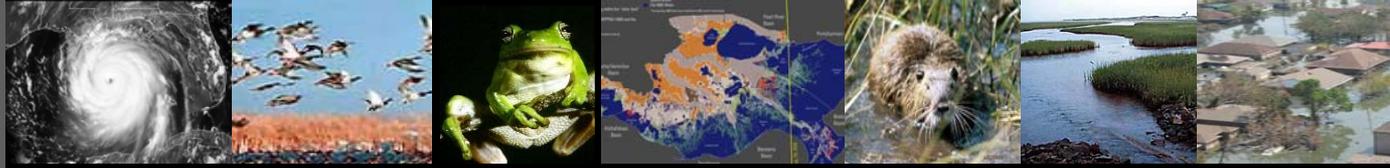


CO₂ Helps Marsh Plants Keep Pace with Sea Level Rise

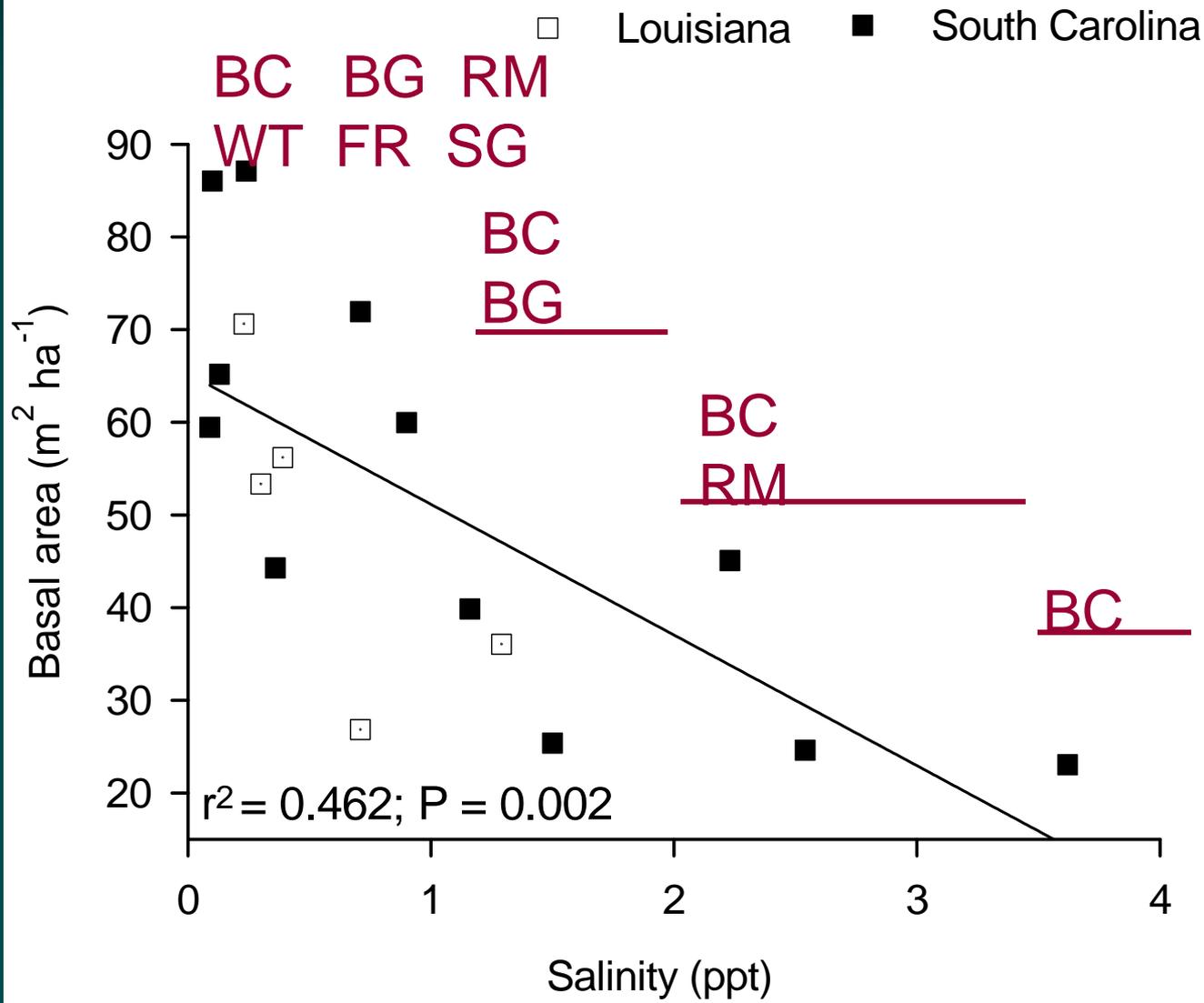
Wetland Elevated CO₂ Facility
National Wetlands Research Center

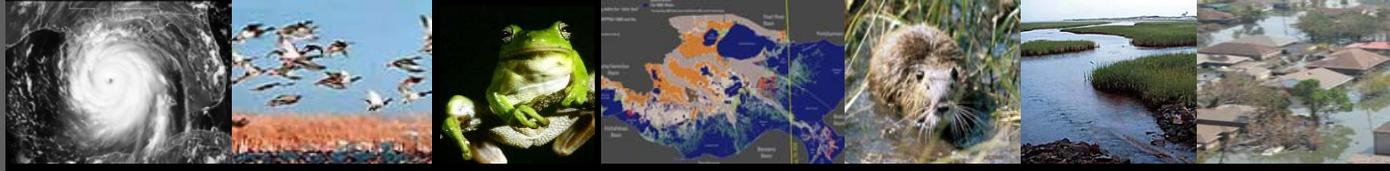
Intact marsh sods transferred to 23 L mesocosms



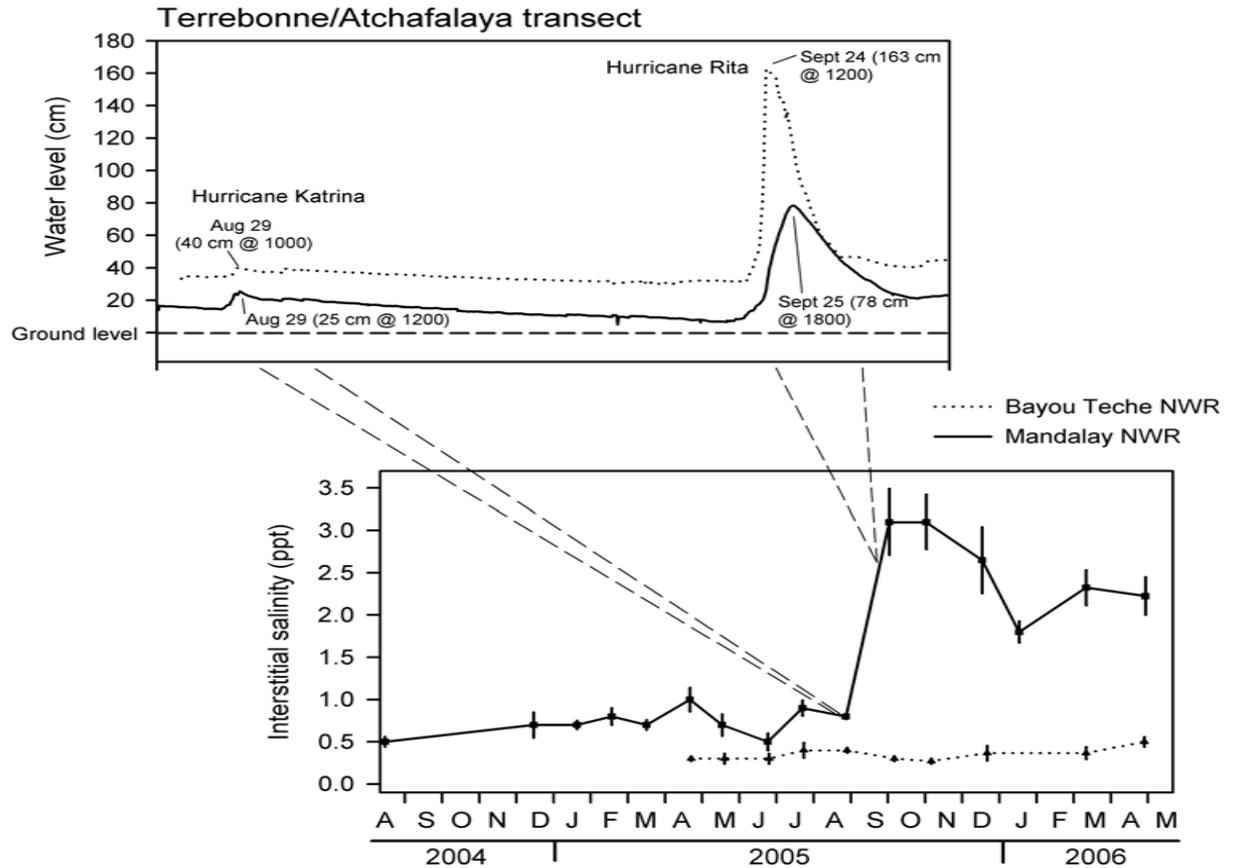


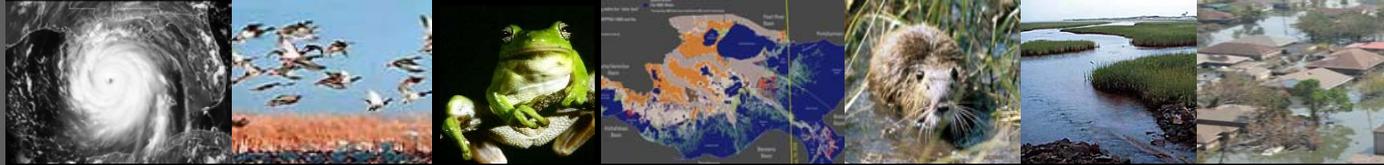
Vulnerability of Tidal Freshwater Swamps



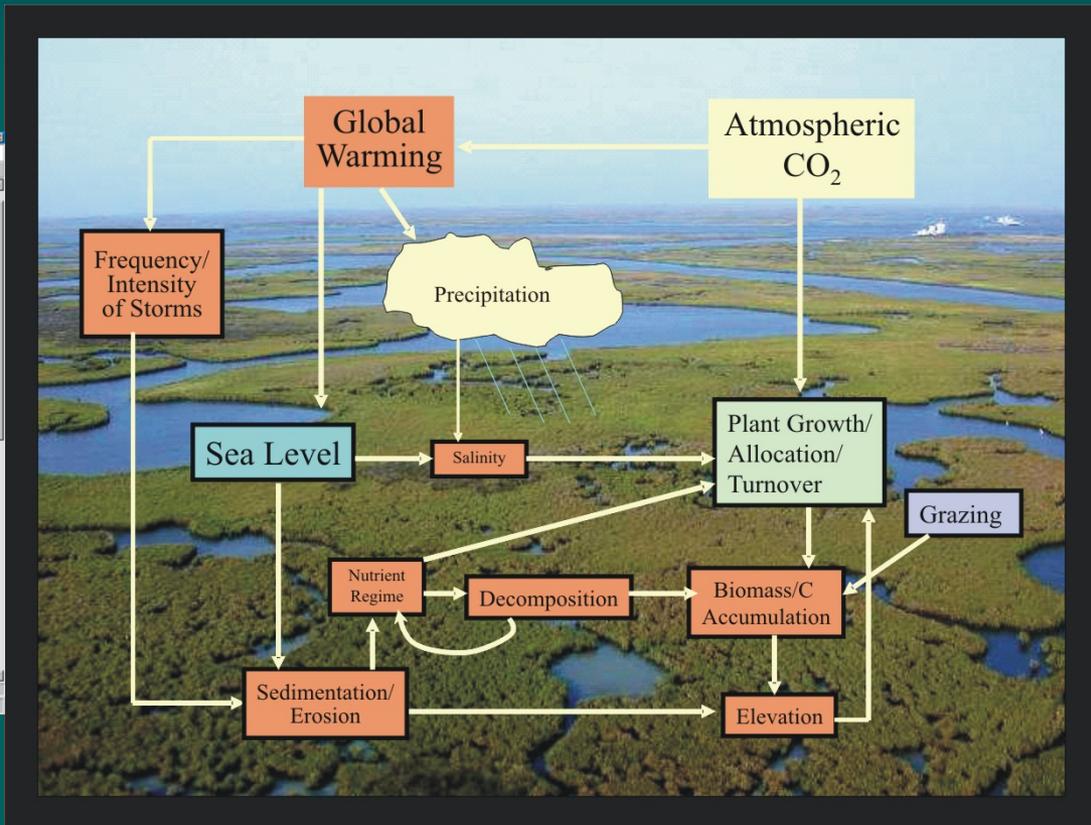
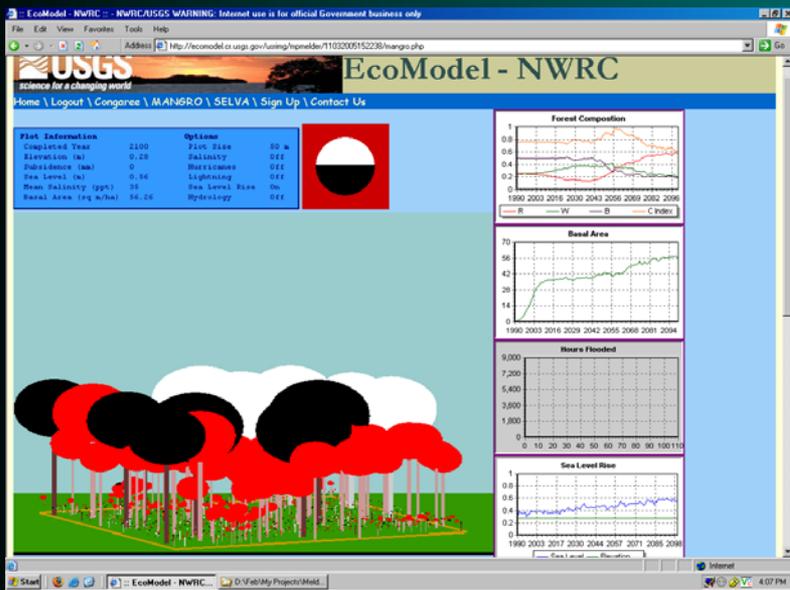


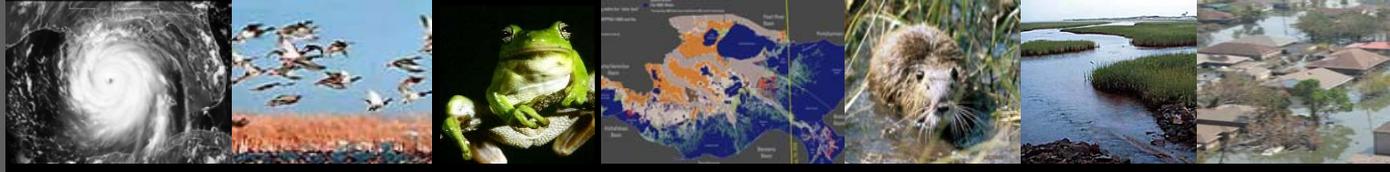
Vulnerability of Tidal Freshwater Swamps





Ecosystem Models of Sea Level Rise Effects





Gulf of Mexico Oil Spill Response

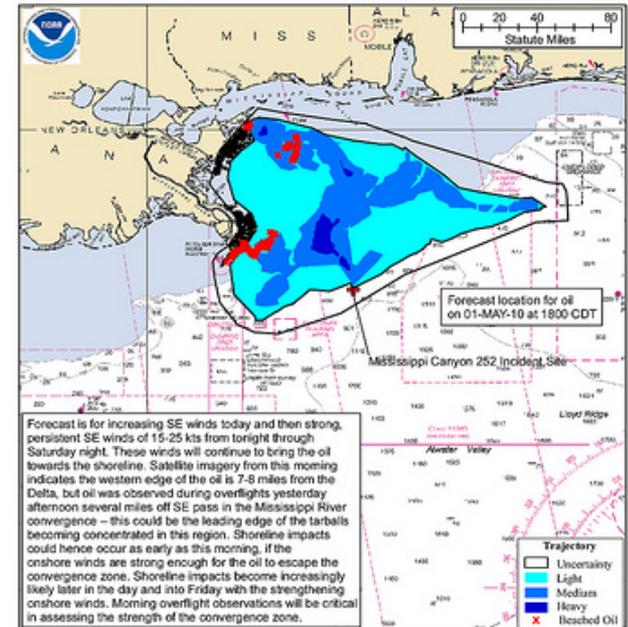
- Short-term Pre-Impact Data Collection
- Long-term Monitoring Studies
 - Wetlands
 - Wildlife



Mississippi Canyon 252

NOAA/NOS/ORR
Estimate for: 1800 CDT, Saturday 5/01/10
Date Prepared: 0641 CDT, Thursday 4/29/10

This forecast is based on the NWS spot forecast from Thursday, April 29 AM. Currents were obtained from the NOAA Gulf of Mexico model, TexasA&MTGLO, and NAVO models. The model was initialized from overflight data from the afternoon of April 28, and satellite imagery and analysis provided by NOAA/NESDIS obtained the morning of April 29. The leading edge may contain turbidity that are not readily observable from the imagery (hence not included in the model initialization).



this scale bar shows the meaning of the distribution terms at the current time