

# FEDERAL, STATE, AND LOCAL RESILIENCY ACTIVITIES IN COASTAL ALABAMA



Phillip Hinesley

Alabama Department of Conservation and Natural  
Resources State Lands Division Coastal Section

Tina Sanchez

South Alabama Regional Planning Commission

# Regional Sediment Management

- Northern Gulf of Mexico Regional Sediment Management Demonstration Program – US Army Corps of Engineers
- Stake Holder Collaboration – States of Florida, Alabama, Mississippi
- Improved Understanding of Regional Process – Sediment Budget/ Research
- Improved Program Efficiency – GIS Development/ Regional Modeling

# GIS Inventory of Coastal Resources

- A Comprehensive Geographic Information System Inventory of Alabama's Coastal Area Resources. Including physical, natural, biological, recreational resources. Including political, infrastructure and natural hazard management information (Alabama Geological Survey/ ADCNR)

# Gulf Of Mexico Shoreline Change

- Yearly Gulf Shoreline Topographical Monitoring/ Alabama Geological Survey and ADCNR
- Shoreline Change Analyses 1990-2005 Surveying/ Coastal Imagery/ GIS Models
- Episodic Change and Erosion from Hurricane's Ivan and Katrina

# Sand Quality Resources

- Alabama Geological Survey Sand-Quality Characterization of Alabama Beach Sediment
- Sample Offshore Sand Resources
- Digital Bathymetry Data
- Environmental Conditions
- Comparison of Off-shore and On-Shore Beach Sediment

# Community Resilience Program

- Community Resilience Program; Mapping a Stronger Mobile Area
- Mobile Area Chamber of Commerce and NOAA's Coastal Services Center Partnership
- Regional Development Strategies
- Multi-Dimensional GIS Analysis Tools for Resilience Planning for coastal development

# Coastal Zone Management (CZM) For Local Communities

- Local Government CZM Program Delegation
- Implementation of Permitting, Monitoring and Enforcement of CZM Program Regulations
- Technical Assistance on Regulatory and Hazard Issues

# Local Programs

- Baldwin County Beach Nourishment Project



- Partnerships between Orange Beach, Gulf Shores, and ADCNR
- 17 miles of beach nourished/4.75 million y<sup>3</sup>
- Re-establish shoreline conditions similar to pre-Hurricane Frederick



# Hazard Mitigation Plans

An aerial photograph of the Gulf of Mexico coastline, showing the Gulf of Mexico in the center, the Florida peninsula on the right, and the Gulf Coast of the United States on the left. The land is green, and the water is blue.

- Baldwin and Mobile Counties have FEMA approved plans that:
  - Assess hazards
  - Identify vulnerabilities
  - Establish action strategies

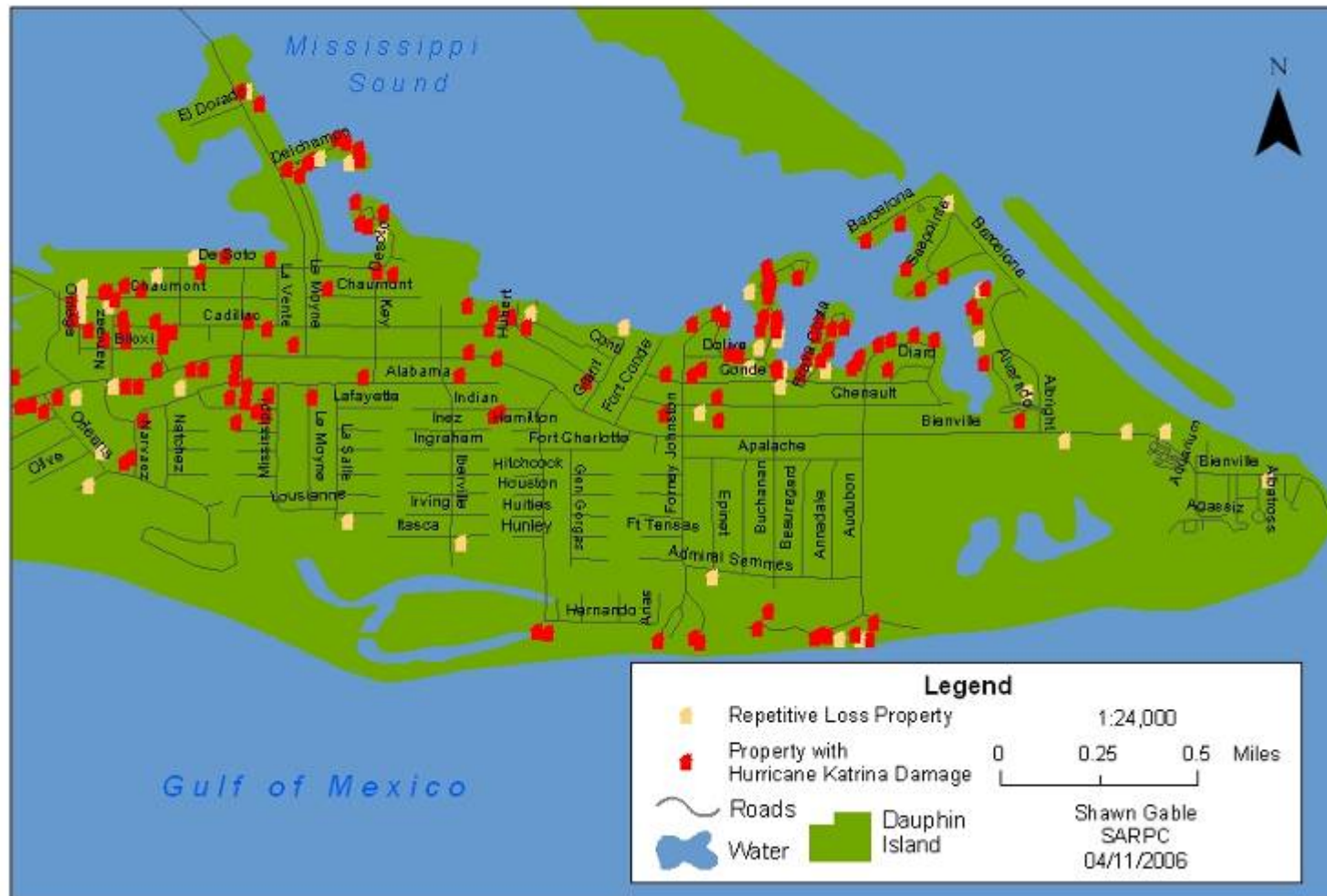
*Retrofit or construct facilities to provide safe harbor for first responders and other essential personnel to provide timely and effective response and recovery and disasters.*



# Construct improvements to drainage systems

## NFIP Repetitive Loss Properties on Dauphin Island East End

Source: FEMA NFIP Repetitive Loss Database



# Beach Communities & CRS

Orange Beach, Gulf Shores, and Dauphin Island participate in NFIP program to go beyond minimum requirements of NFIP

- Freeboard
- Outreach and education
- Orange Beach, Gulf Shores, and Dauphin Island also have floodplain management plans specific to beach community challenges (i.e., repetitive losses).

# Contact info

[Phillip.Hinesley@dcnr.alabama.gov](mailto:Phillip.Hinesley@dcnr.alabama.gov)

**tsanchez@sarpc.org**