Achieving the Philosophy of GOMA Through MsCIP

4th National Conference on Ecosystem Restoration

August 3, 2011

The Spirit of Cooperation – Integrating Partnerships for Sustainable Ecosystem Restoration

TOm Smith, PE

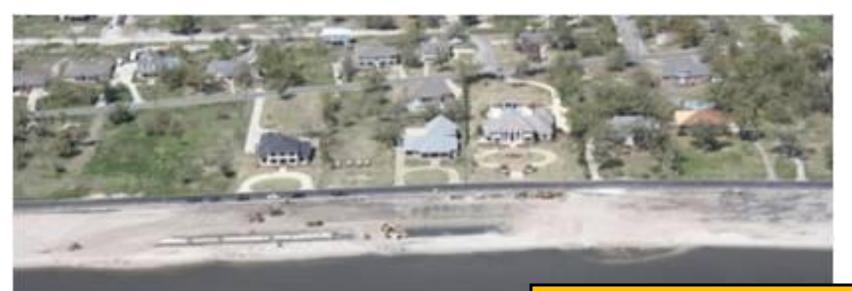


US Army Corps of Engineers BUILDING STRONG_®



A Unique Element of the Gulf Coastal System

U.S.ARMY



- Gulfport is state's second largest city
- Nine Cities directly on the coast
- Flat elevation
- One public levee



Water Quality

Florida lead

AL, FL, MS, TX



Critical to the nation's energy supply, 44% of crude oil, 43% of dry natural gas, 50% of LNG

Seven of nation's top 10 ports, two in top global seven

69% of shrimp and 70% of oysters caught in U.S.

Drainage from 33 states, 20 major river systems and over 150 regional rivers.

The Gulf of Mexico represents the 6th largest economy in the world.

AL, LA, MS, TX AL, FL, LA, TX Restoration Louisiana lead Habitat ID Texas lead

Priority Issue Teams

Resilience

Mississippi lead

AL, FL, LA, MS

EducationNutrientsAlabama leadMississippi leadFL, LA, MS, TXAL, FL, LA, TX



MsCIP Program Authority



Comprehensive Planning to Address:

- Hurricane / Storm Damage Reduction
- Salt Water Intrusion
- Shoreline Erosion
- Fish & Wildlife Preservation

Compatible with State Coastal Restoration Plan



of Engineers Huntington District







STRATION

GOMA / MsCIP Relationship

- Water Quality for Healthy Beaches and Seafood
 - Restoration of barrier and near-shore islands and coastal marshes and wetlands will lead to improved water quality.
- Reduced Nutrient Impacts to Coastal Ecosystems
 - Restoration of coastal marshes and wetlands and conversion of developed areas into marshes, wetlands, and green spaces will reduce the input of nutrients into coastal ecosystems.
- Habitat Conservation and Restoration
 - Restoration of barrier and near-shore island habitats and moving private lands into the public sector will provide for habitat conservation and restoration.
- Increased Coastal Community Resiliency
 - Restoration of barrier and near-shore islands enhances protection of mainland areas. Moving private lands into the public sector reduces impacts of future storms and hurricanes and increases resiliency and sustainability
- **Education**

S ARMY

 Inclusion of evacuation planning, floodplain management and other issues under the purview of local and state entities increases community resiliency and supports the other GOMA issues





Habitat and Island Restoration

•2 million cy Material•Avoiding loss of 3000 acres





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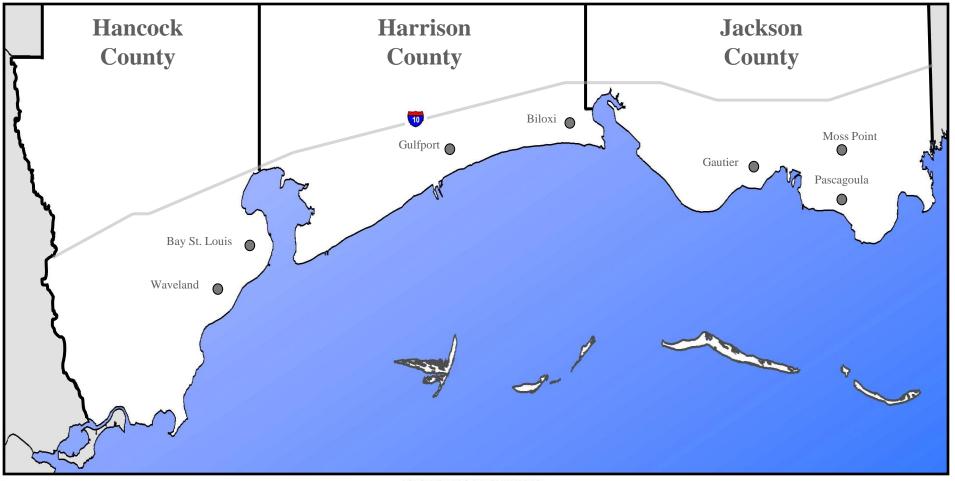
Barrier Restoration

•22 million CY Material

•Salt Water Intrusion

•Storm Damage Reduction

Habitat Restoration







 Adjacent to Grand Bay National Wildlife Refuge and National Estuarine Research Reserve

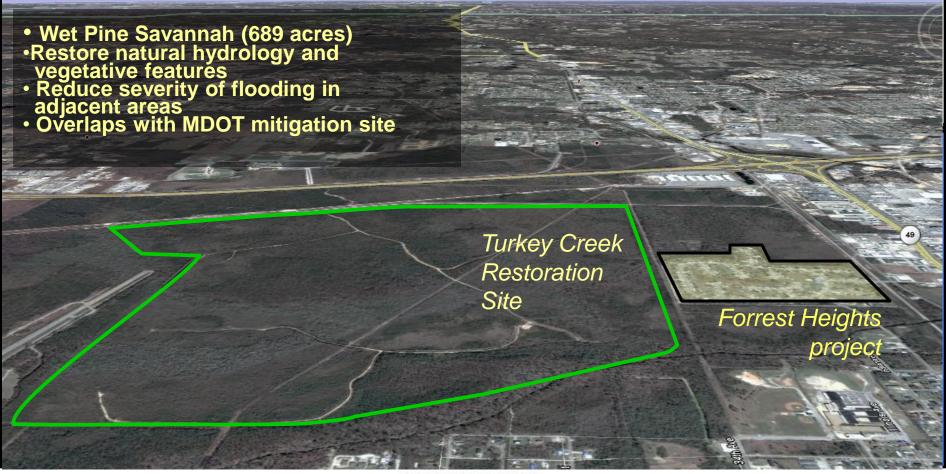
- 59 low-lying, flood prone properties, 29 residences
- Property acquisition and relocations 80% complete
- Comprehensive Plan element

Franklin Creek Buyout





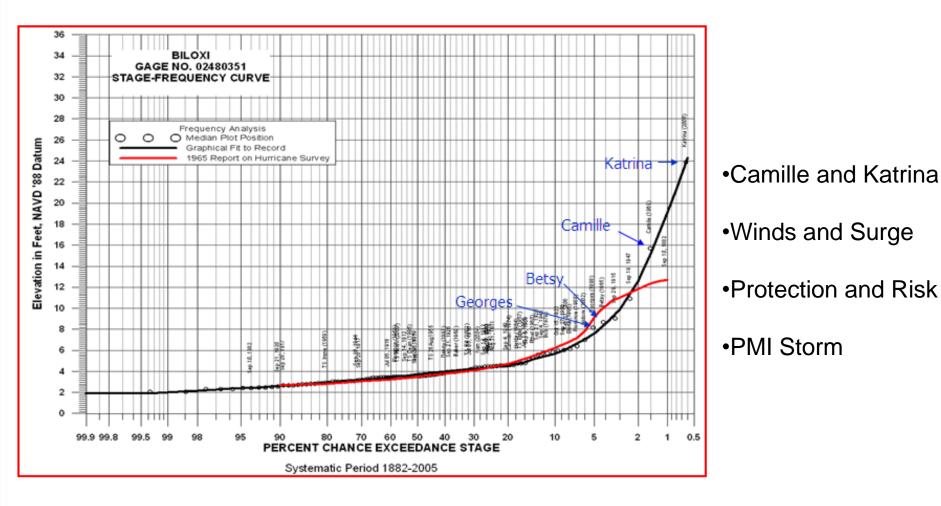
Turkey Creek Ecosystem Restoration

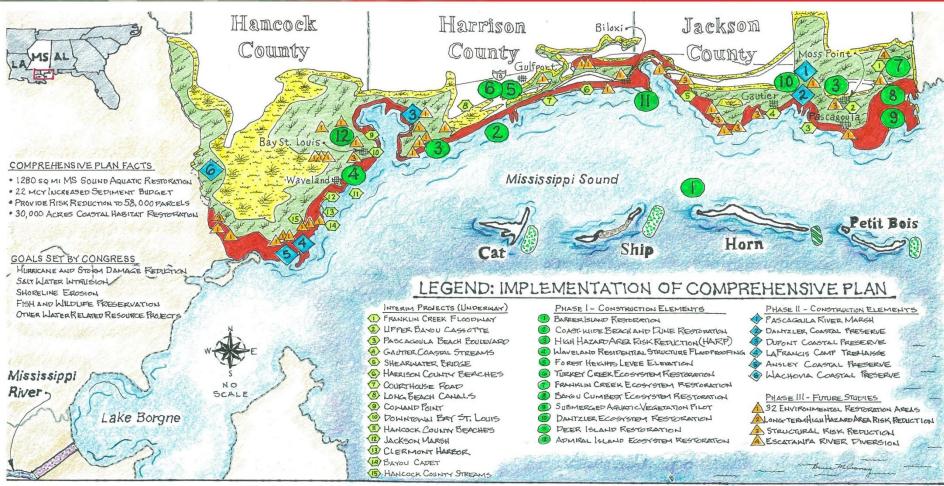


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Education.





LEGEND

U.S.ARMY

- LITTORAL ZONE PLACEMENT OF SAND
- DIVERSION CHANNEL
- 100-YEAR FLOODPLAIN
- DIRECT PLACEMENT OF SAND

04M BENEFICIAL USE PLACEMENT HIGHHAZARD AREA RISK REDUCTION HURRICANE KATRINALINUMDATION LIMITS

Comprehensive Plan Elements Mississippi Coastal Improvements Program



Comprehensive Plan Expected Performance

Management Measure	Description
Barrier Island	\$20M annual damages avoided, \$43M annual fishery losses avoided, 1,150 acres restored, protect of threatened and endangered species including piping plover and nesting habitat for the brown pelican, green, Kemp's ridley, and loggerhead sea turtles and 4,900 jobs created
Near-term HARP	2,000 parcels removed from the FEMA VE Zone, \$33M in annual damages reduced, 4 municipal structures relocated and elevated, and 5,200 jobs created
Waveland	25 residential structures elevated and 50 jobs created
Forrest Heights	\$100K annual damages reduced in a minority community (including \$40,000 residual damages) and 200 jobs created
Beach & Dune	60 miles of dune restoration, 200 jobs created, and incidental damage reduction
Turkey Creek	689 acres of wet pine savannah restored, incidental flood storage capacity, and 30 jobs created
Bayou Cumbest	110 acres of tidal wetland restored, 38 acres scrub/shrub restored, structures removed, and 280 jobs created
Dantzler	385 acres of wet pine savannah restored, incidental flood storage capacity, and 10 jobs created
Admiral Island	62 acres of tidal wetland restored, 61 acres of scrub/shrub restored, and 280 jobs created
Franklin Creek	149 acres of wet pine savannah restored, incidental flood storage capacity, and 10 jobs created
SAV Pilot	5 acres submerged aquatic vegetation
Deer Island	400 acres of critical habitats restored

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Every Successful Partnership Bears Fruit



Questions?

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