



U.S. ARMY

US Army Corps of Engineers



GRAND ISLE Hurricane Rehabilitation Project



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St. Louis District

**Project Manager for Grand Isle
Engineering and Design**

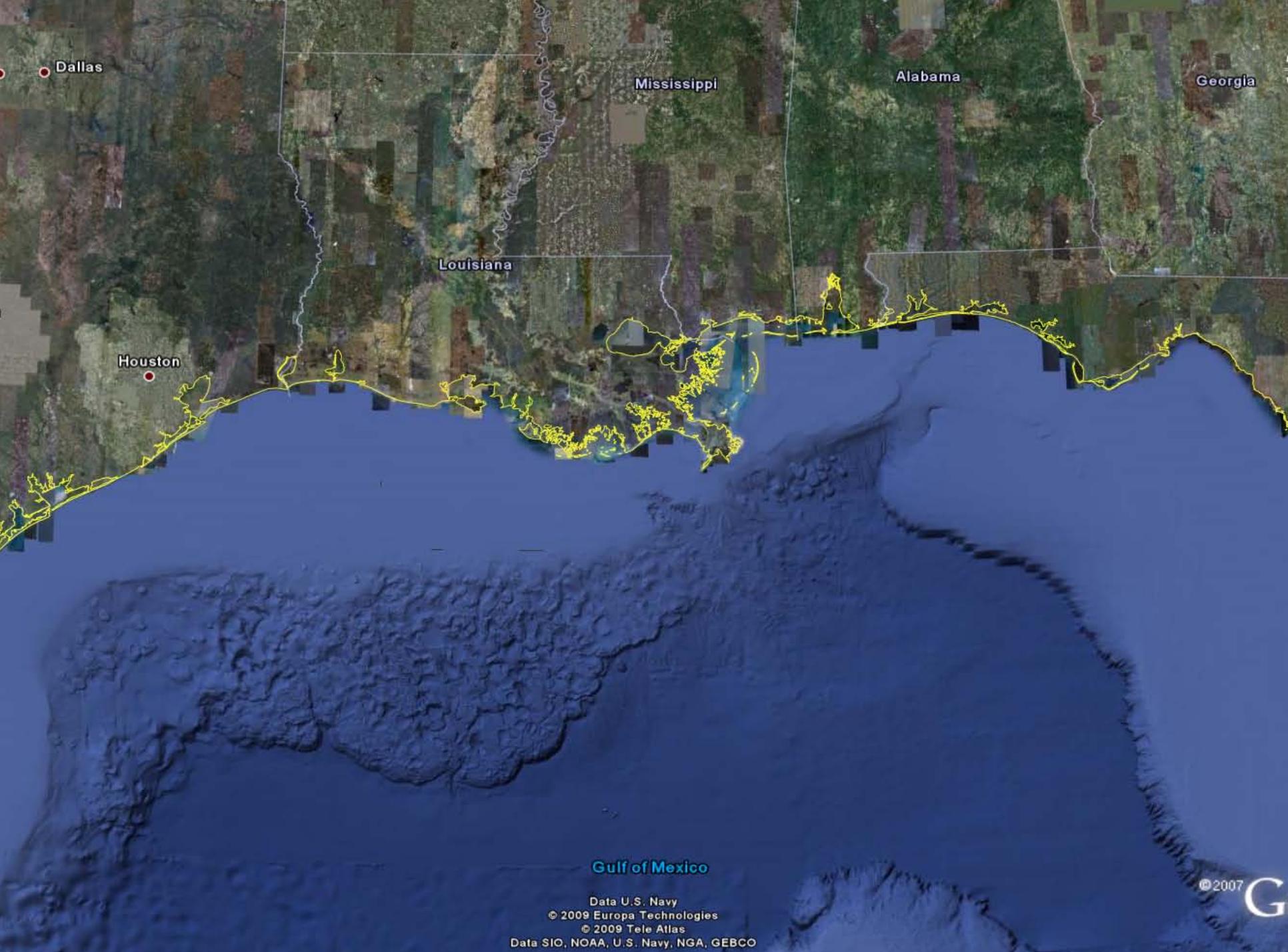
**New Orleans District Hurricane Protection
Office**

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Building Strong



Dallas

Houston

Louisiana

Mississippi

Alabama

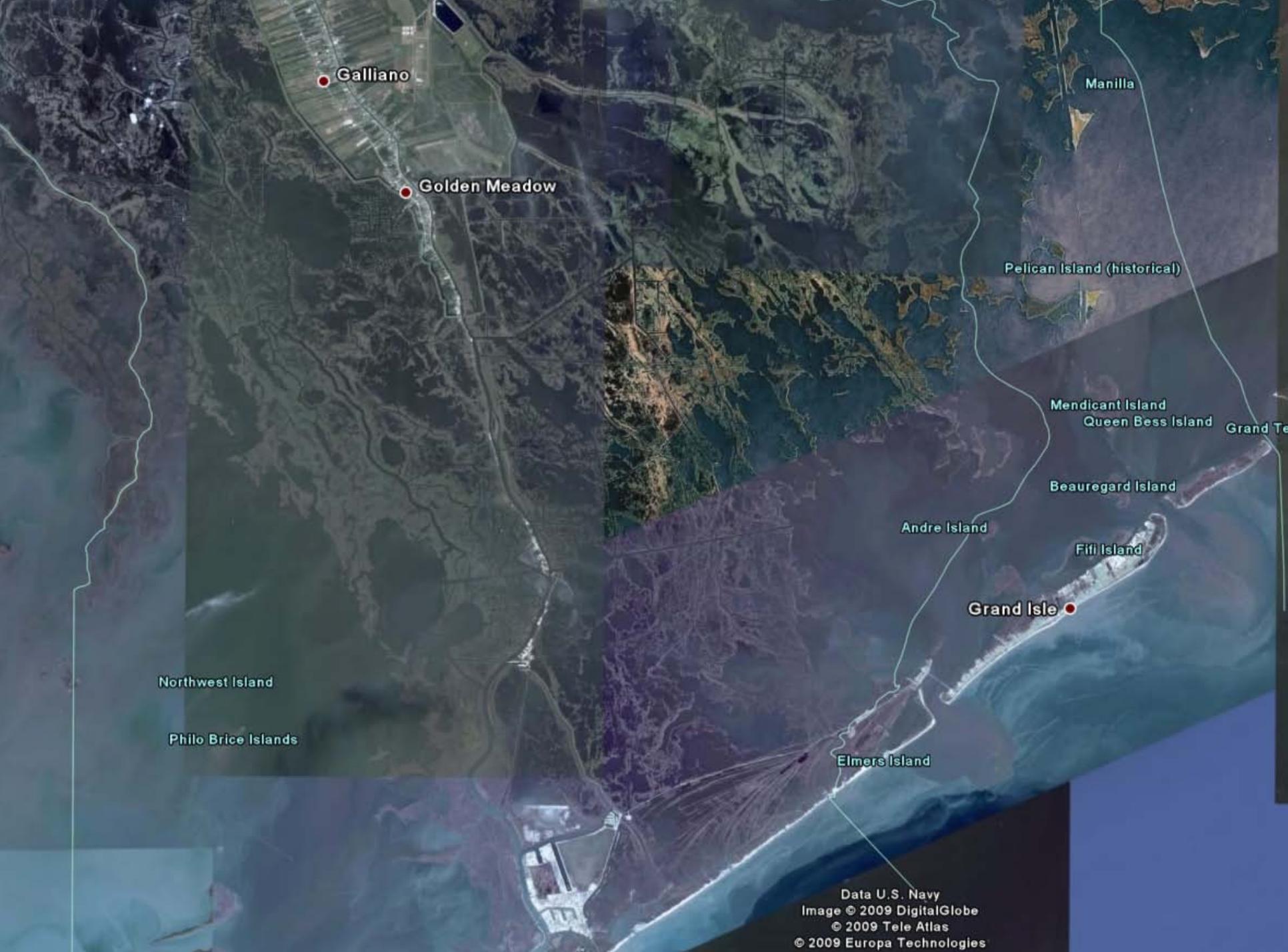
Georgia

Gulf of Mexico

Data U.S. Navy
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G



Galliano

Golden Meadow

Manilla

Pelican Island (historical)

Mendicant Island
Queen Bess Island

Grand Te

Beauregard Island

Andre Island

Fifi Island

Grand Isle

Elmers Island

Northwest Island

Philo Brice Islands

Data U.S. Navy
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US 1



Damage after Ike



US Army Corps of Engineers



Amended Project Information Report
PL 148-109 Rehabilitation of Damaged
Hurricane/Shore Protection Projects

GRAND ISLE AND VICINITY, LOUISIANA

JEFFERSON PARISH, LA



October 2008

U.S. Army Corps of Engineers
New Orleans District
New Orleans, LA

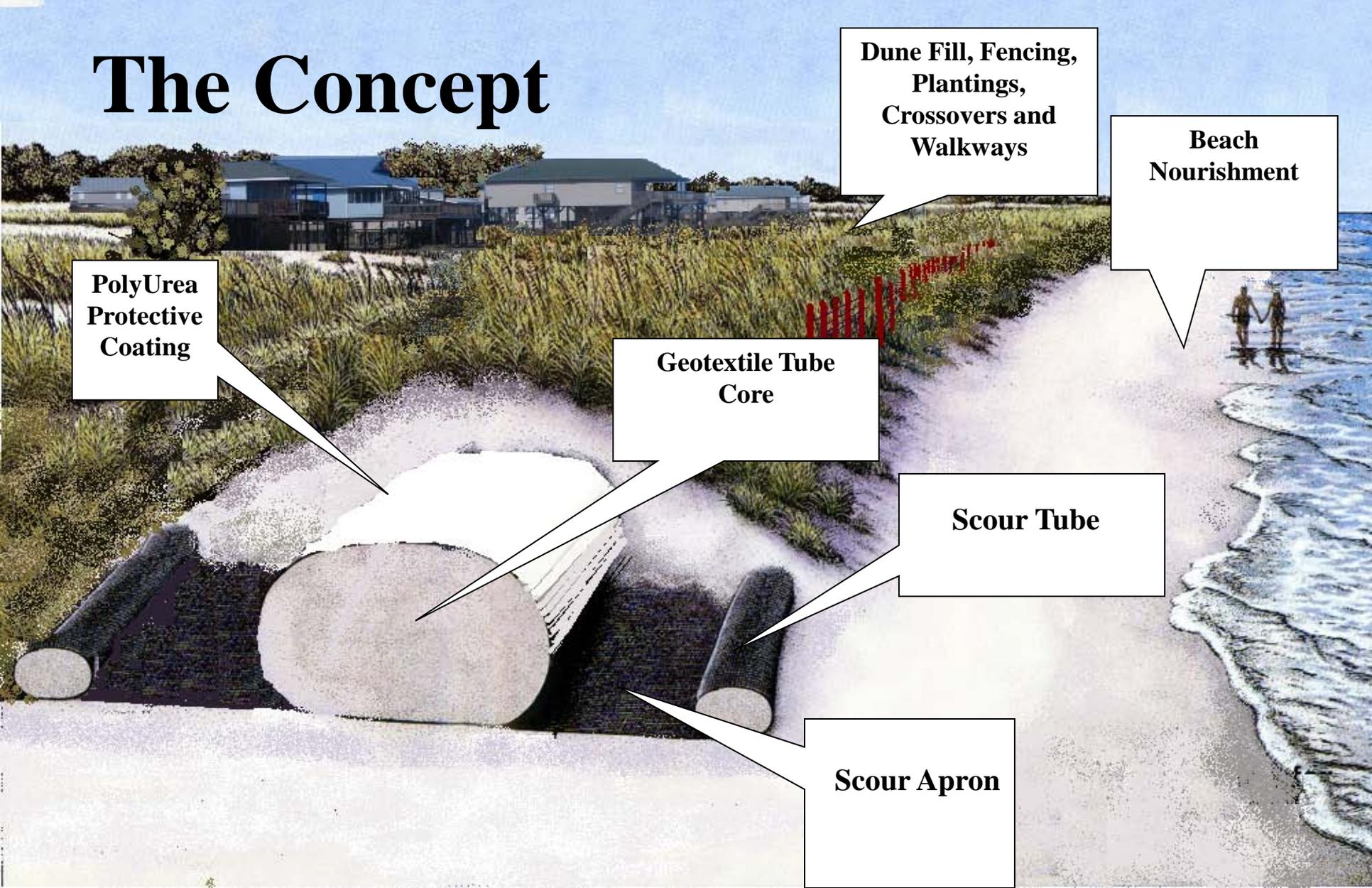
ATTN: CEMVN-ERO



"Building Strong"



The Concept



**PolyUrea
Protective
Coating**

**Geotextile Tube
Core**

**Dune Fill, Fencing,
Plantings,
Crossovers and
Walkways**

**Beach
Nourishment**

Scour Tube

Scour Apron



ALT 4. CLAY BORROW AREA





Damage After Ike





Sand filled geotextile tubes

VS

Clay filled geotextile burritos

\$17.5 Million SAVINGS



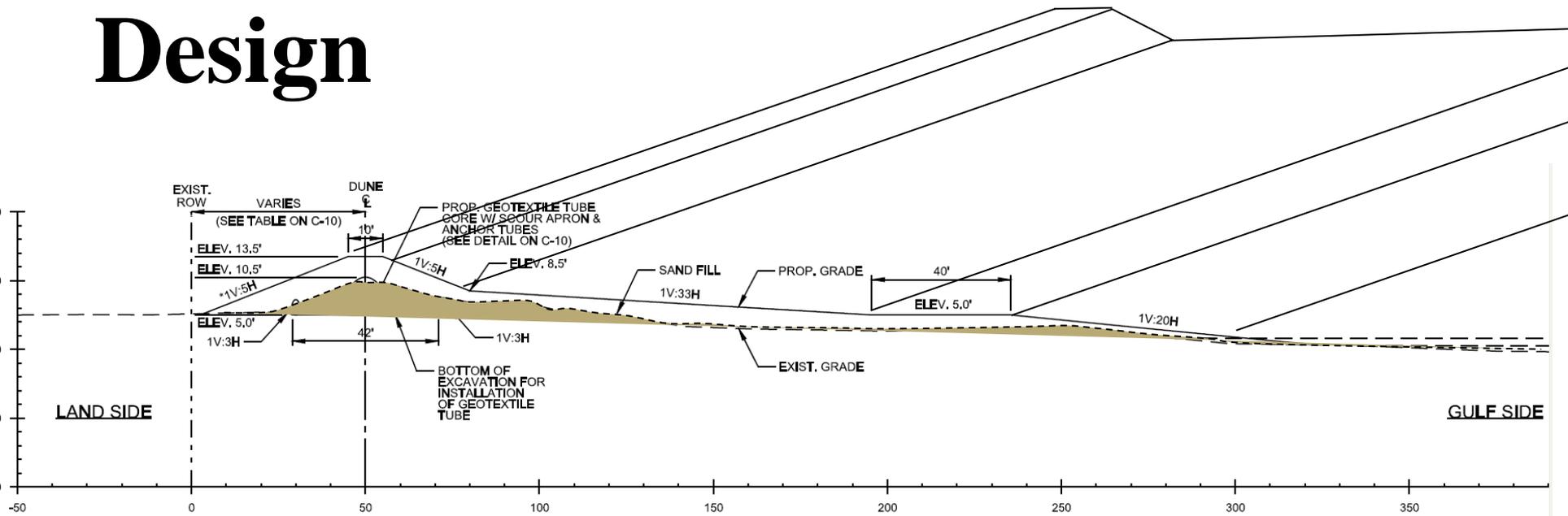
Field Trip with Mayor, Consultants, Industrial Fabrics, and Engineers to Galveston







Proposed Design





Inside a Geo-textile Tube





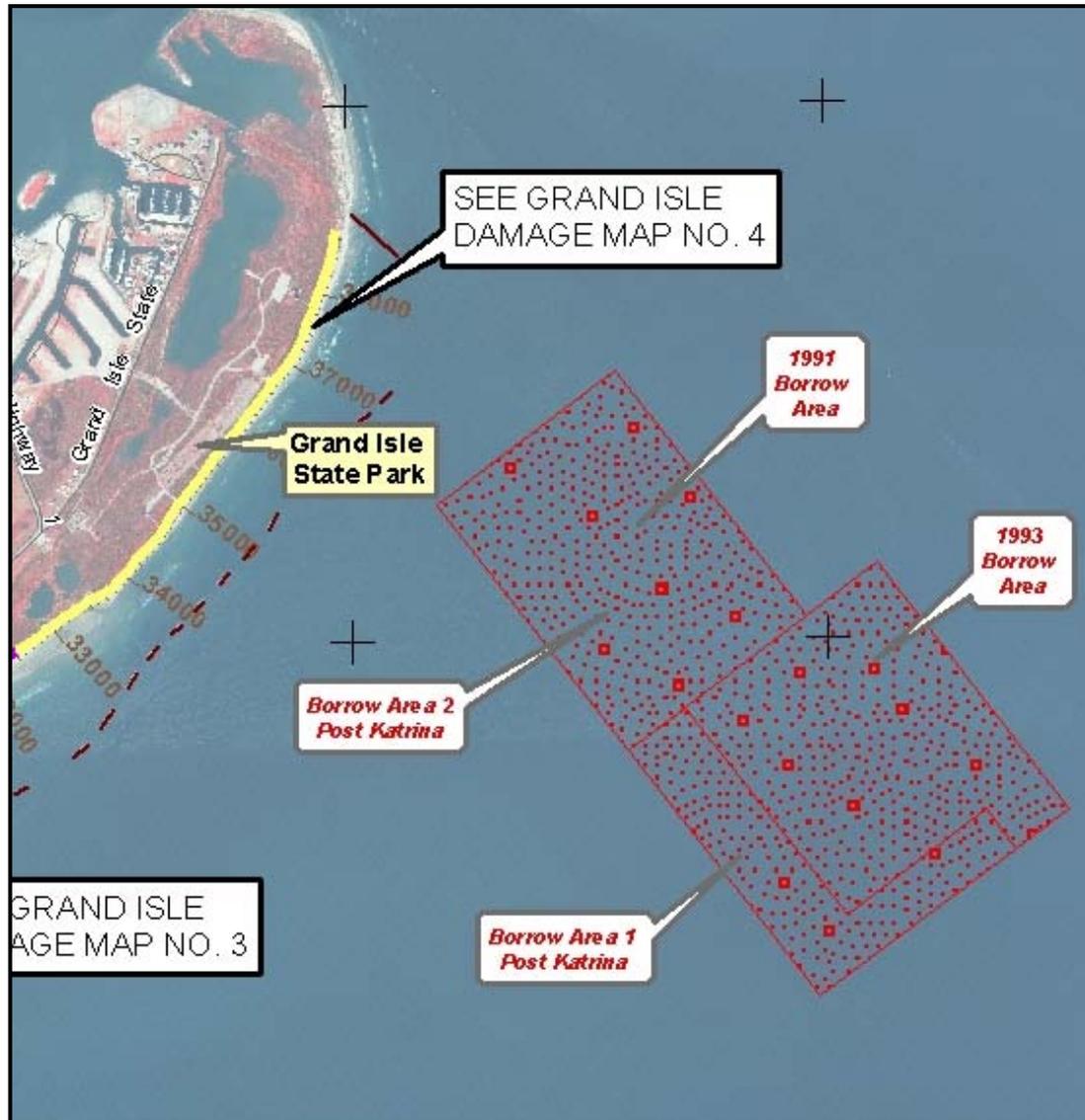
- **Grade area**
- **Create swell that is the width of Tube plus apron**
- **Controls large volume of water to prevent localized erosion**



- **Unroll Geotube**
- **Connect discharge line from the dredge**
- **Fill Geotube while monitoring fill**
- **Adjust alignment as necessary before fill is complete**



US Army Corps of Engineers







January 2011 Field Visit



January 2011 Field Visit



January 2011 Field Visit



January 2011 Field Visit



January 2011 Field Visit

