



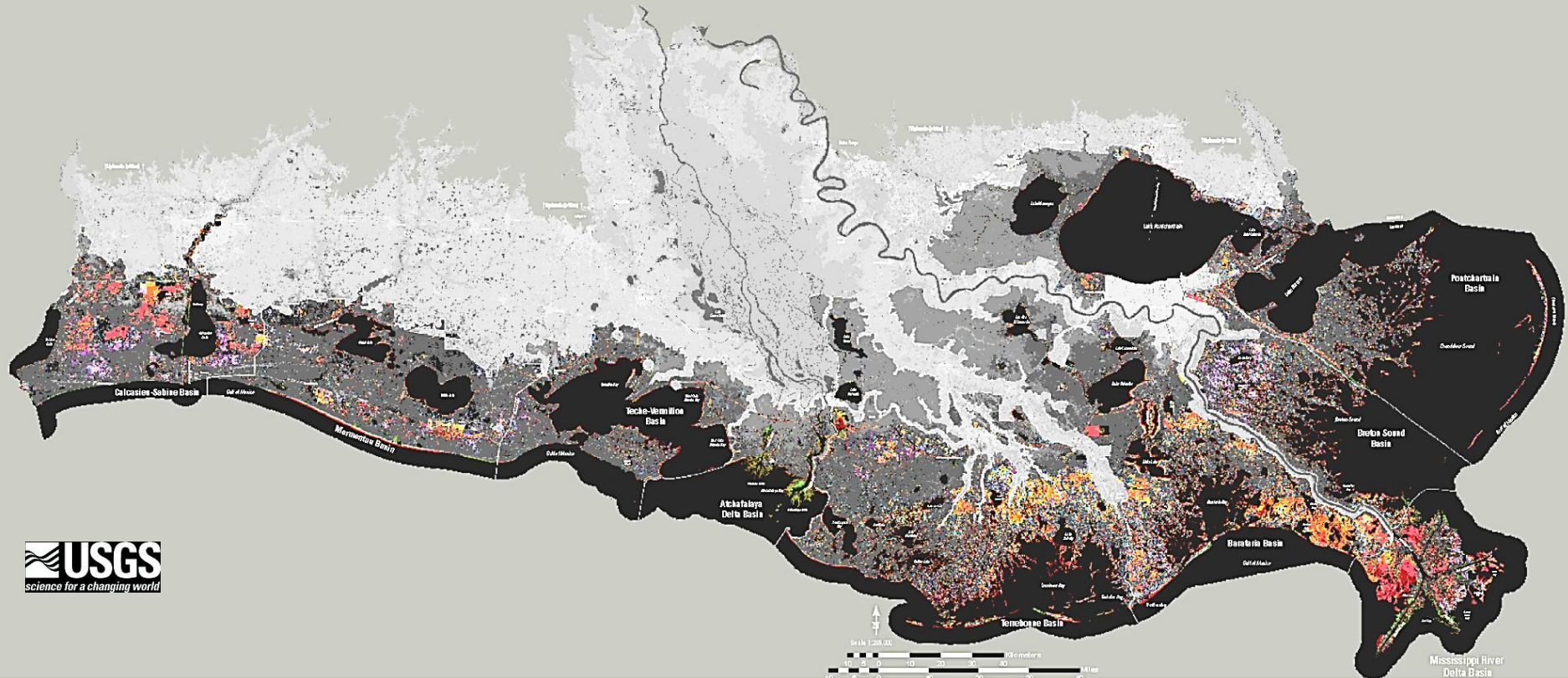
PLAQUEMINES PARISH COASTAL INITIATIVES

Billy Nungesser,
Parish President

PJ Hahn,
Director of Coastal
Zone Management



LAND AREA CHANGE IN COASTAL LOUISIANA, 1932-2010



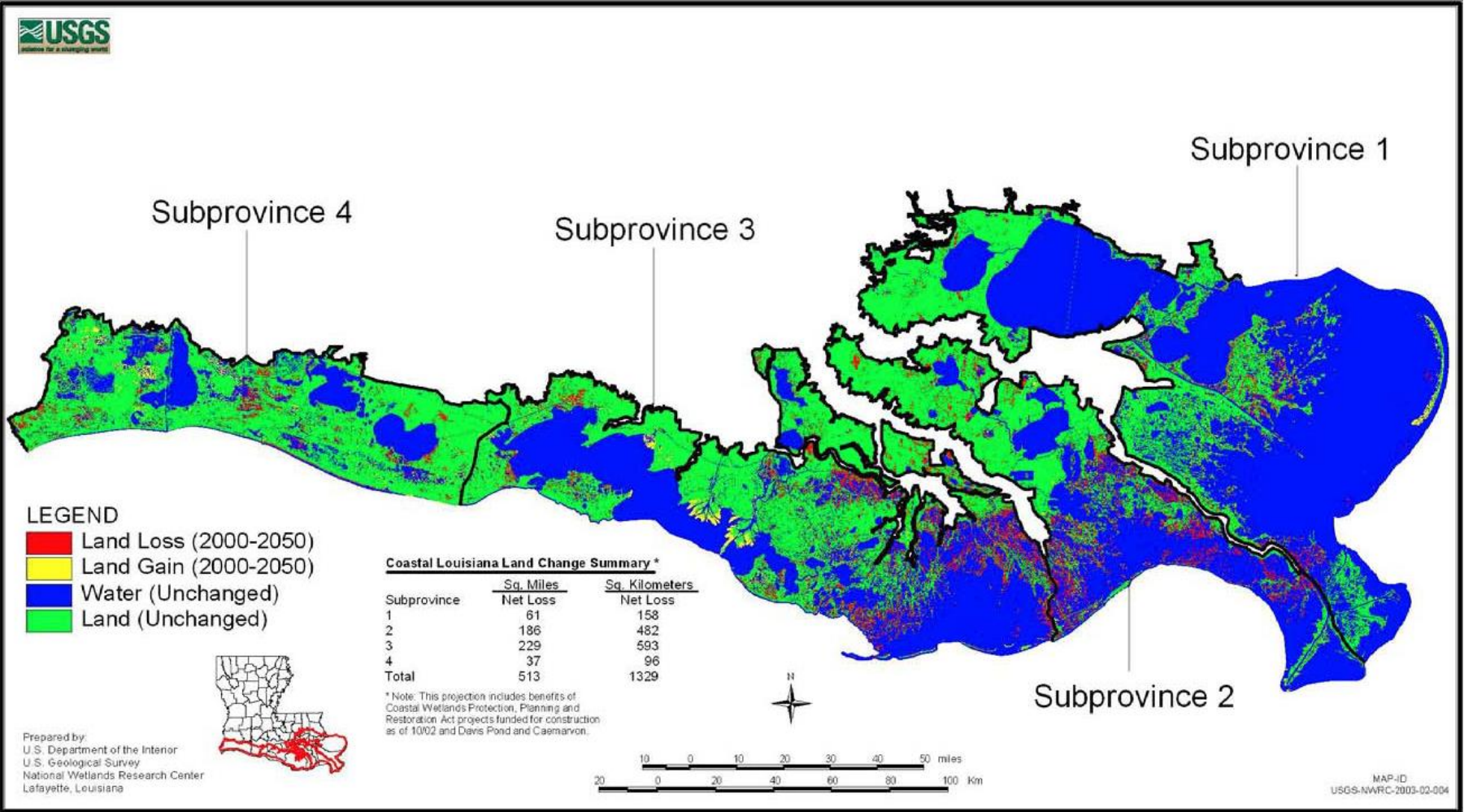
90% of Total Coastal Wetland Loss in U.S. occurs in Louisiana

Coastwide Land Area Change, 1932-2010:

From 7,546 sq. mi. to 5,663 sq. mi. = -1,883 sq. mi. = **25% Loss**

Plaquemines Parish Land Area Change, 1956-2006: -248.7 sq. mi.

PROJECTED LAND LOSS, 2000-2050

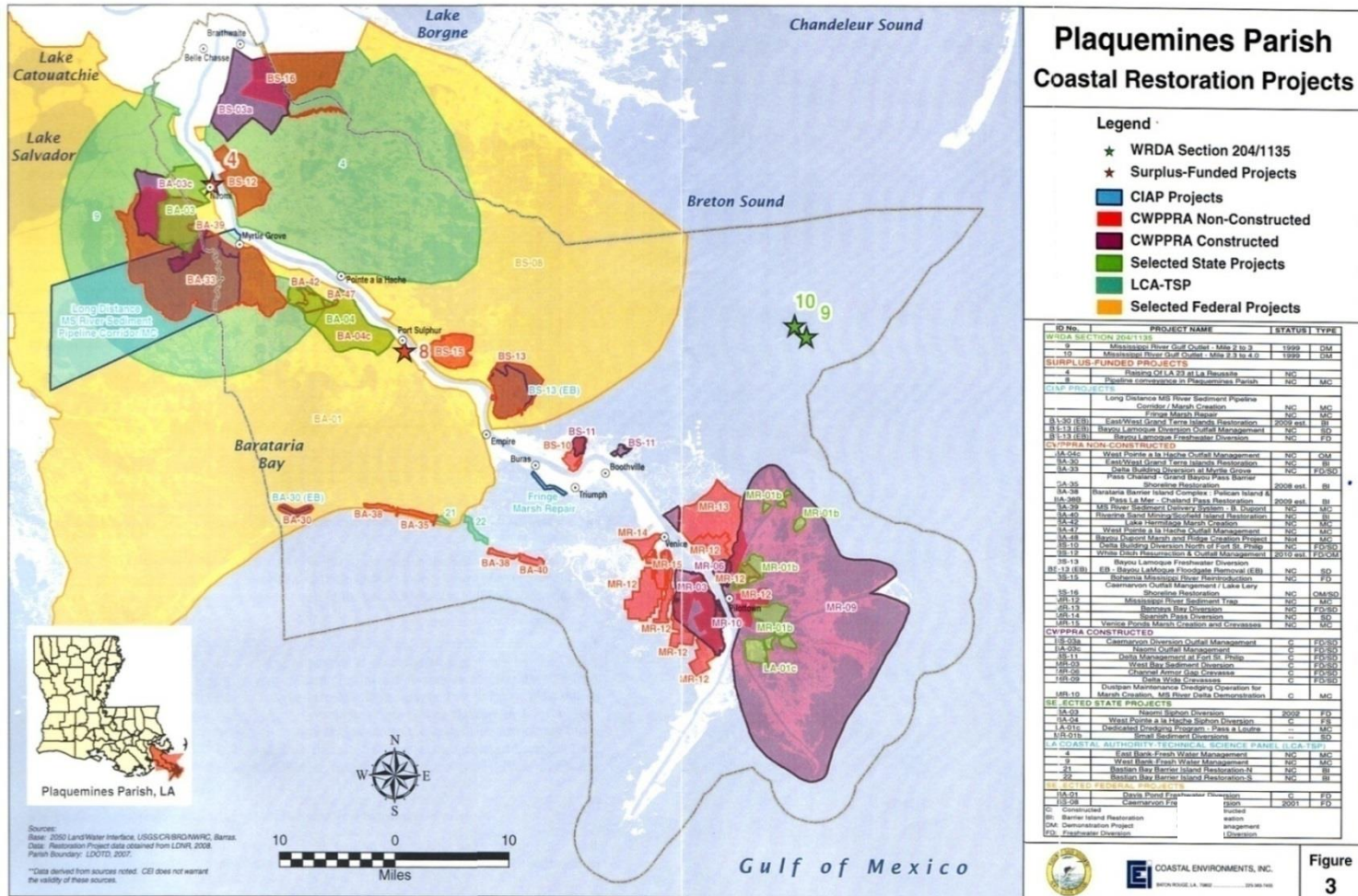






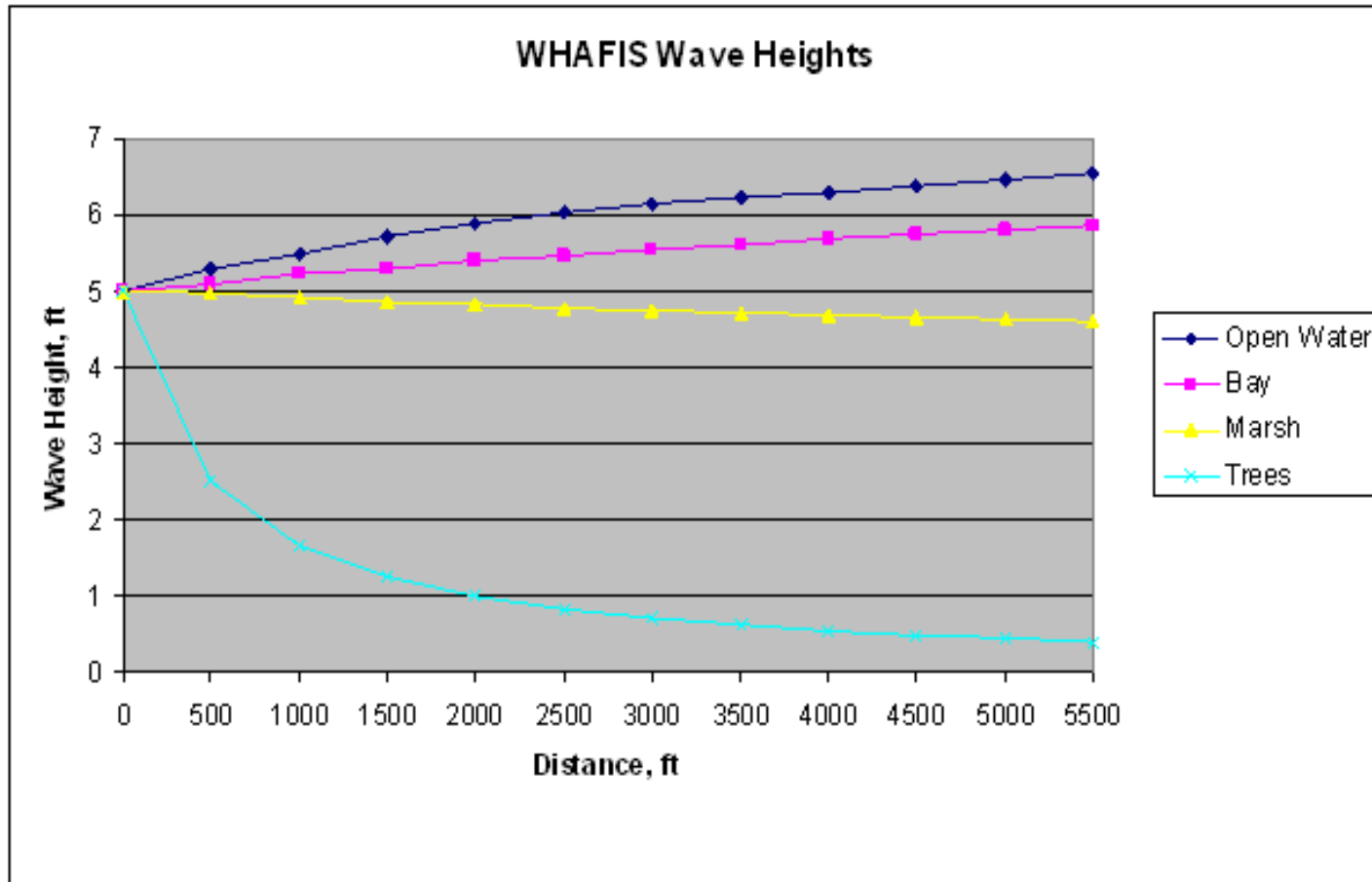


COASTAL RESTORATION IN PLAQUEMINES PARISH



Currently proposed Restoration Projects (while restoring wetland habitat) have minimal impact on flood protection for Plaquemines Parish residents based on ERDC modeling.

REDUCING WAVE HEIGHTS



Modeling has shown that tree barriers significantly reduce wave action.





COASTAL RESTORATION IN PLAQUEMINES PARISH



Coastal Restoration in Plaquemines Parish will include:

1. Maintaining adequate flood protection for residents

2. Providing “Forested Ridges” adjacent to levees

Phase 1

3. Replenishment of wetlands areas

Phase 2

4. Redevelopment of the barrier islands

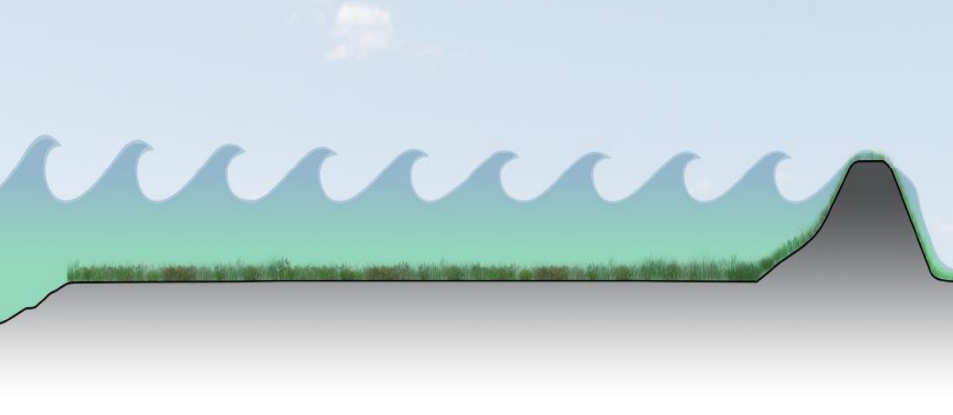
Phase



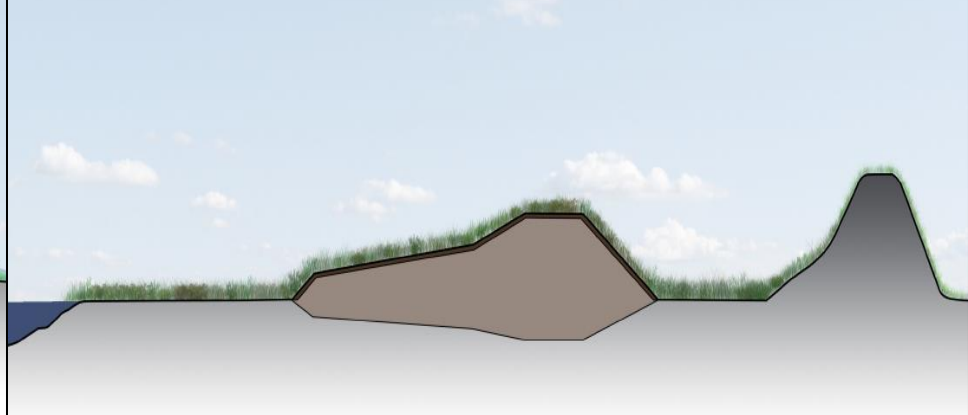
CONSTRUCTION OF FORESTED RIDGES



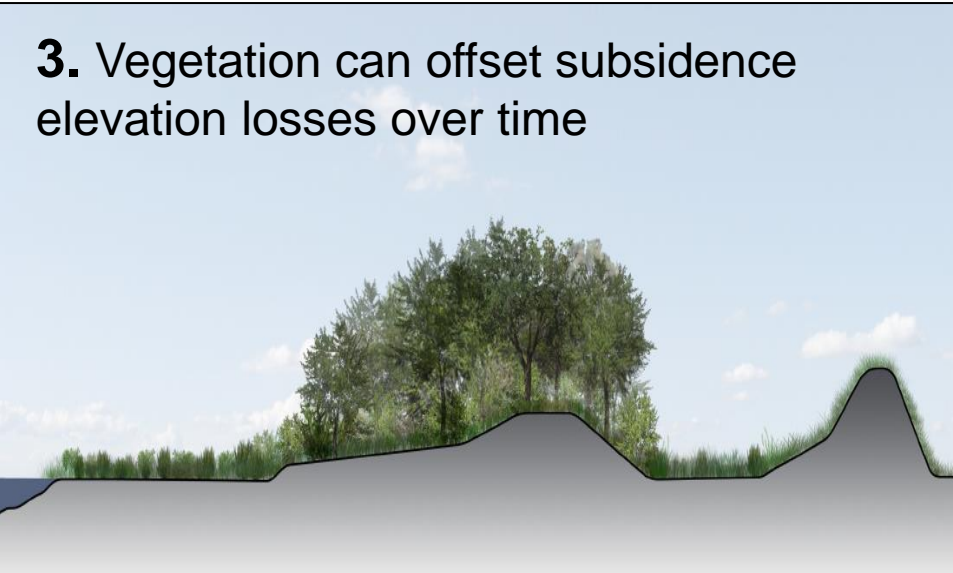
1. Existing conditions: High wave energies on levee faces



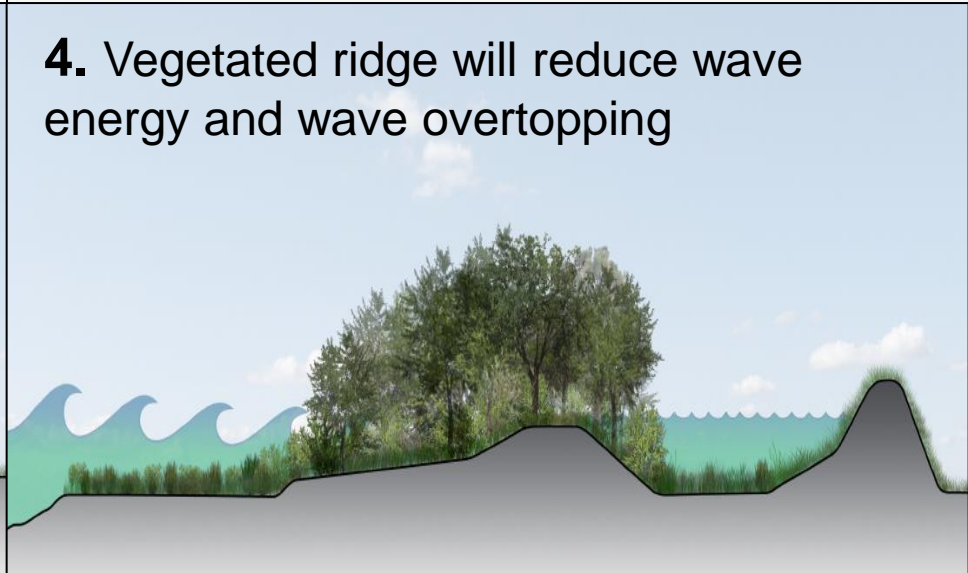
2. Historic ridge restored using Mississippi River sediments



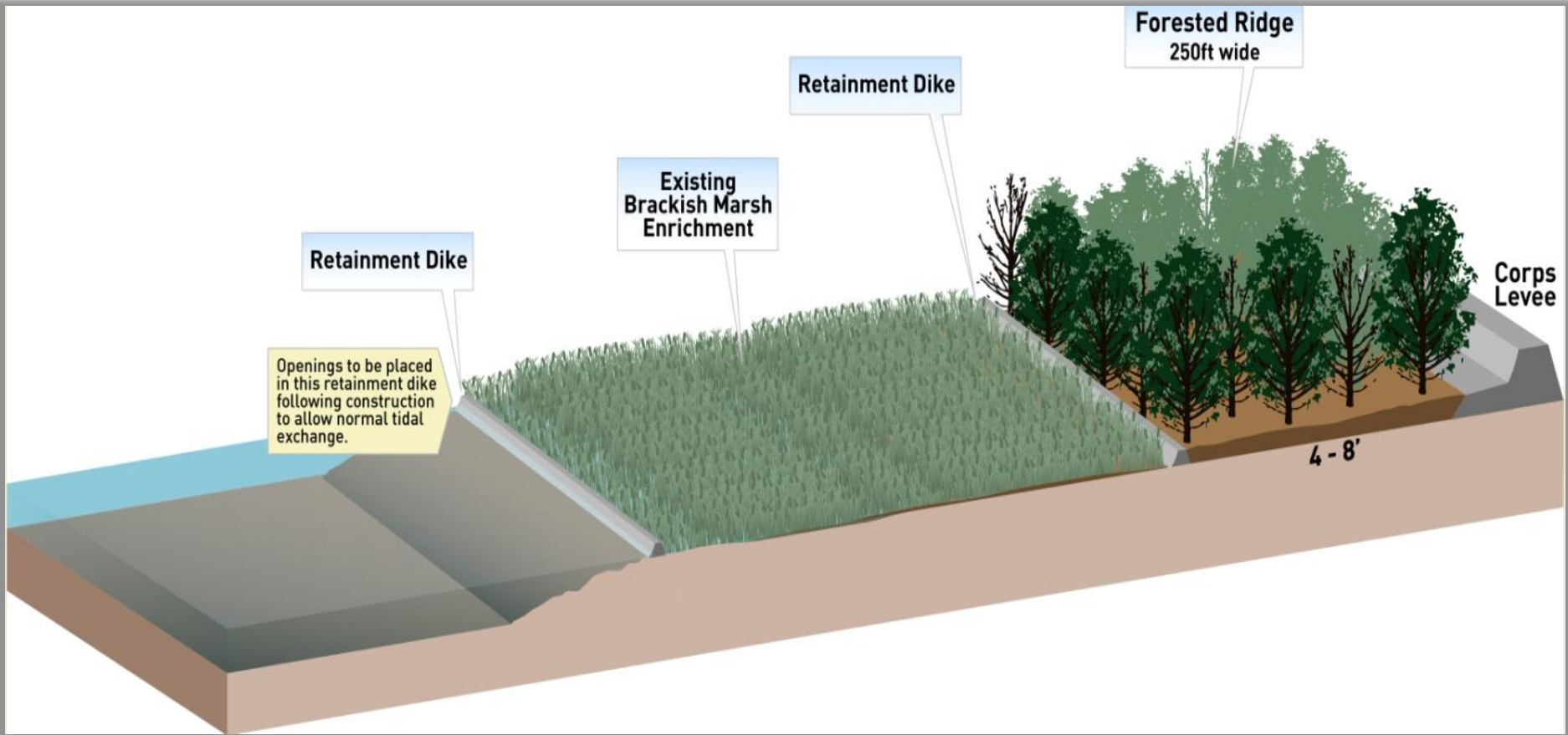
3. Vegetation can offset subsidence elevation losses over time



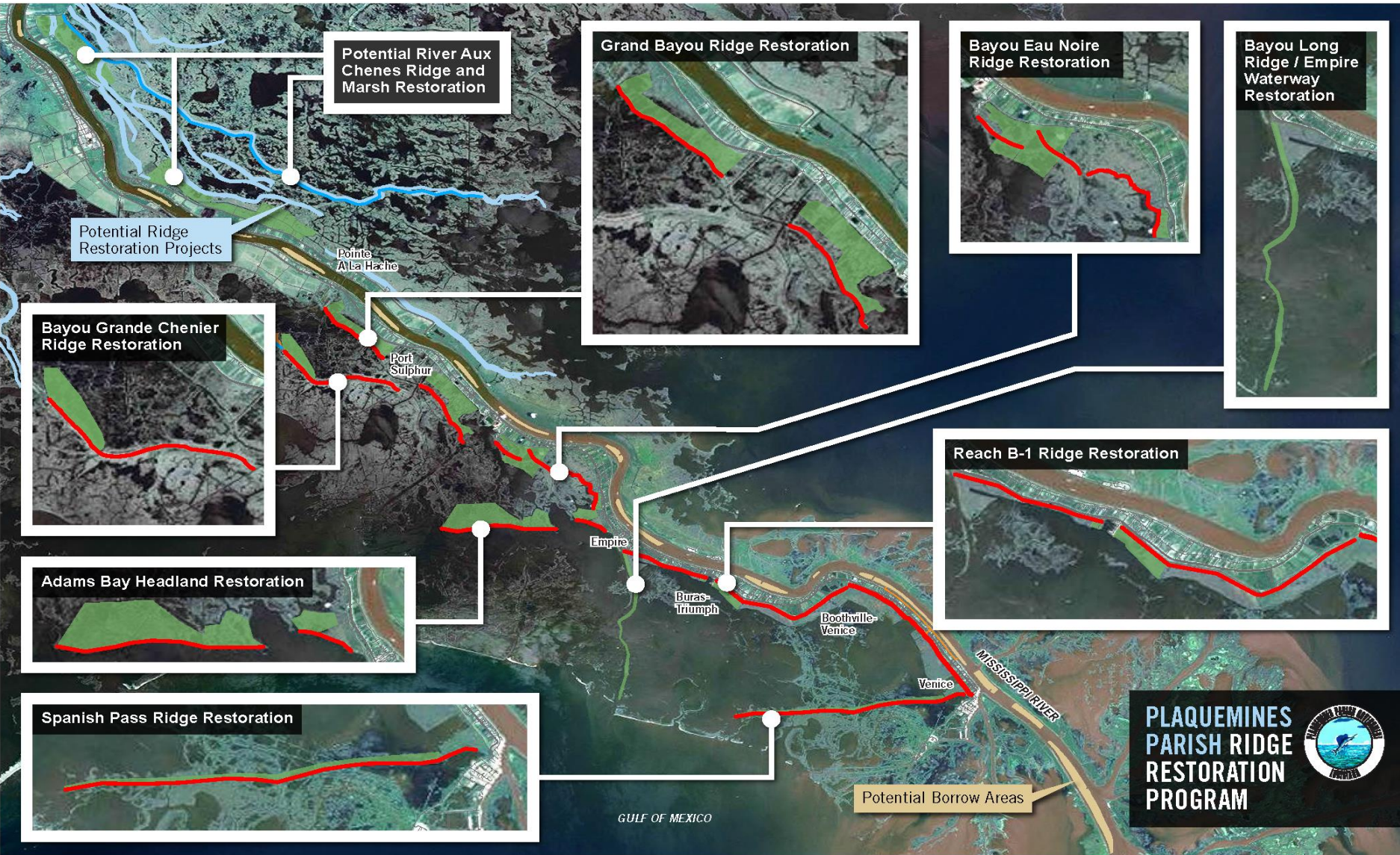
4. Vegetated ridge will reduce wave energy and wave overtopping



CONSTRUCTION OF FORESTED RIDGES



RIDGE RESTORATION PROGRAM



Potential River Aux Chenes Ridge and Marsh Restoration

Grand Bayou Ridge Restoration

Bayou Eau Noire Ridge Restoration

Bayou Long Ridge / Empire Waterway Restoration

Bayou Grande Chenier Ridge Restoration

Adams Bay Headland Restoration

Spanish Pass Ridge Restoration

Reach B-1 Ridge Restoration

PLAQUEMINES PARISH RIDGE RESTORATION PROGRAM

Potential Borrow Areas

GULF OF MEXICO

FEMA INITIATES LAMP PROGRAM



U.S. Department of Homeland Security
500 C Street, SW
Washington, DC 20472



FEMA

The Honorable Thad Cochran
United States Senate
Washington, DC 20510

Dear Senator Cochran:

Thank you for your letter dated February 3, 2011, to the Department of Homeland Security, Federal Emergency Management Agency (FEMA). On behalf of your constituents, you joined a number of other Senators in asking that FEMA discontinue the National Flood Insurance Program (NFIP) use of "without levee" analyses when the levee structure does not meet the regulatory requirements for accreditation and an affected community objects to such analysis in favor of more precise methods of flood modeling. You expressed concern that this type of modeling does not consider the impacts of a levee or flood control structure on the 1-percent-annual-chance flood, and erodes public confidence in FEMA's mapping process.

As you are aware, over the past year FEMA has been engaged in a comprehensive review of the NFIP to identify reforms designed to enable FEMA to better address the flood risks faced by the American public. We recognize that our approach to mapping the flood risk associated with levees that do not meet Federal accreditation requirements has been a concern for many. As such, we have included this subject as an important consideration in our ongoing NFIP reform efforts, while also exploring short-term resolutions.

Some changes in the program must take place in the near term. **In order to increase the credibility of our Flood Insurance Rate Maps in areas where levees are not accredited, I have directed my staff to replace the "without levee" modeling approach with a suite of methodologies that are technically-sound, credible, and cost-effective. The approach will better meet the needs of our citizens while providing more precise results that better reflect the flood risk in areas impacted by levees.** This will not replace the need for levee owners or the associated communities to remain engaged in flood risk management activities or change the existing requirements for them to provide levee accreditation information as outlined in the Code of Federal Regulations (44 CFR 65.10).

The details of this new approach will take some time to finalize. Acknowledging that there are ongoing flood hazard analysis studies where the "without levee" approach has been used, FEMA will temporarily withhold issuing Final Determinations for those communities whose levees do not meet accreditation requirements and would clearly benefit from this new approach. This temporary delay will allow us to properly evaluate affected levees under the new procedures.

While our new procedures are being developed, the risk of flooding remains in many of your communities - whether caused by unforeseen levee failure or heavy rainfall events causing flooding

www.fema.gov

Senator Thad Cochran

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inside the levee system. We trust that you and the other Senators concerned about this issue will help to ensure the public does not develop a false sense of security regarding flood risk as we work through and implement these changes. I am requesting your continued assistance to promote flood insurance in these neighborhoods. The Preferred Risk Policies that are available to many individuals currently not shown in Special Flood Hazard Areas are cost-effective means to buy down their risk.

Thank you for your continued interest in this matter and your diligence in helping us find an appropriate resolution. We would be happy to hold a briefing to provide further details on our draft proposal, if that would be helpful. If you need additional information or assistance, please have a member of your staff contact the FEMA Legislative Affairs Division by telephone at (202) 646-4500.

Sincerely,

W. Craig Fugate
Administrator

“In order to increase the credibility of our FIRMs in areas where levees are not accredited, I have directed my staff to replace the ‘without levee’ modeling approach with a suite of methodologies that are technically-sound credible, and cost-effective. The approach will better meet the needs of our citizens while providing more precise results that better reflect the flood risk in areas impacted by levees.”

--Craig Fugate, FEMA Administrator

BUILDING THE BERMS

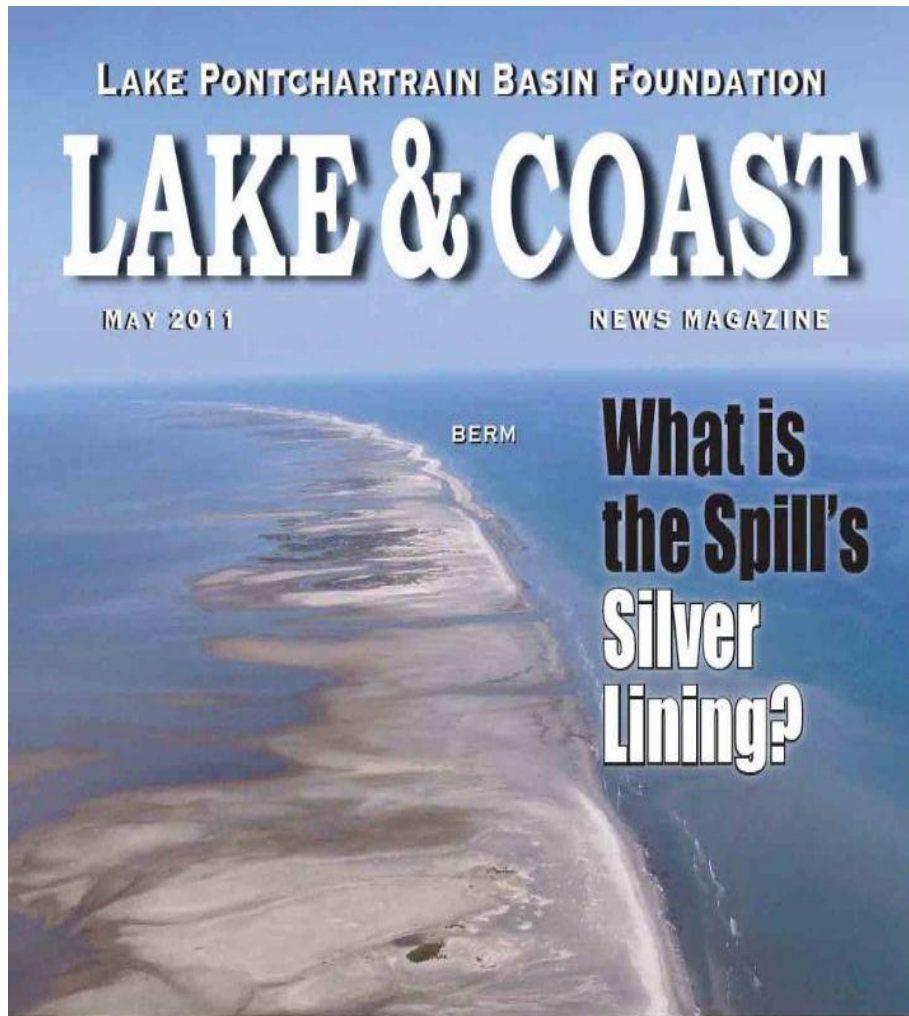


- Largest coastal project in the history of the U.S.
- Permitted in 19 days
- Environmentalists claimed that the berms would decimate the marshes and ecosystem

THE SAND BERM PLAN



MEDIA ATTENTION



“At this time, LPBF still firmly believes that the project will be beneficial for the islands. We expect the berm will buy some time for the islands and quickly create quality barrier island habitats. The berm at Chandeleur Island is potentially the most significant constructed project contributing to coastal restoration in in the Pontchartrain Basin in 2010.”

-- Dr. John Lopez, PhD. Lake & Coast Magazine, May 2011

MEDIA ATTENTION



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DPC
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OCTOBER 2009

MUMBAI
Indira Finally Under Way!

ALL ABOUT DEPTH
Dredging Focus In South America

PLAQUEMINES PARISH
Leading Louisiana's Hurricane Fightback



Billy was supported for his efforts not just during the disaster, but also years later.

**SUPPORT BILLY'S
BARRIER ISLAND PLAN**

BUDMAT PROGRAM UPDATE



- Plaquemines Parish signed an agreement with USACE-MVN in spring 2013
- Focuses on areas along West Bay and Tiger Pass
- Agreement executed August 6th
- Work expected to begin within the next few weeks

BIRD HABITAT ISLAND RESTORATION PARTNERSHIP



- Plaquemines Parish Government
- Barataria – Terrebonne National Estuary Program
- Shell
- Apache Minerals
- Coastal Impact Assistance Program
- American Bird Conservancy
- National Audubon Society

Total funds and donations: \$3M



Proposed Island:

- 18.90 Ac. at Containment Berm
- 10.4 Ac. at MHW
- 8.5 Ac. of Intertidal Zone
- 0.4 Ac. +4 Top of Island

