

Long Distance Pumping For Coastal Restoration



Bill Hanson
Great Lakes Dredge & Dock Co.

What Is He Doing Here?

- **Different Venue/Crowd**
- **Lets Talk About Dredging**
 - **Competitive Market**
 - **Innovative**
 - **Entrepreneurial**



GLDD

- **Largest, Oldest**
- **Domestic**
- **International**
- **Large, Flexible Fleet**
- **Large Engineering Staff**



Dredge Types

- **Cutters**
- **Hoppers**
- **Mechanical**
- **Support Equipment**



Projects

- **Deepening**
- **Maintenance**
- **Coastal Protection**
- **Rivers & Lakes**
- **Pipeline**
- **Mining**



**Economic Recovery,
Coastal Protection, and
Environmental Restoration,**

IT ALL STARTS WITH DREDGING®



Economic Recovery



Ports investing billions, waiting on millions

Coastal Protection

Millions on maintenance or Billions on repairs?



Environmental Restoration



IT ALL STARTS WITH DREDGING®



Louisiana Coastal Restoration

- Pass A'Loutre
- Pass Chaland
- Bayou Dupont
- BP Oil Berms
- Pelican Island
- Scofield
- Shell East



Bayou Dupont









Pelican Island





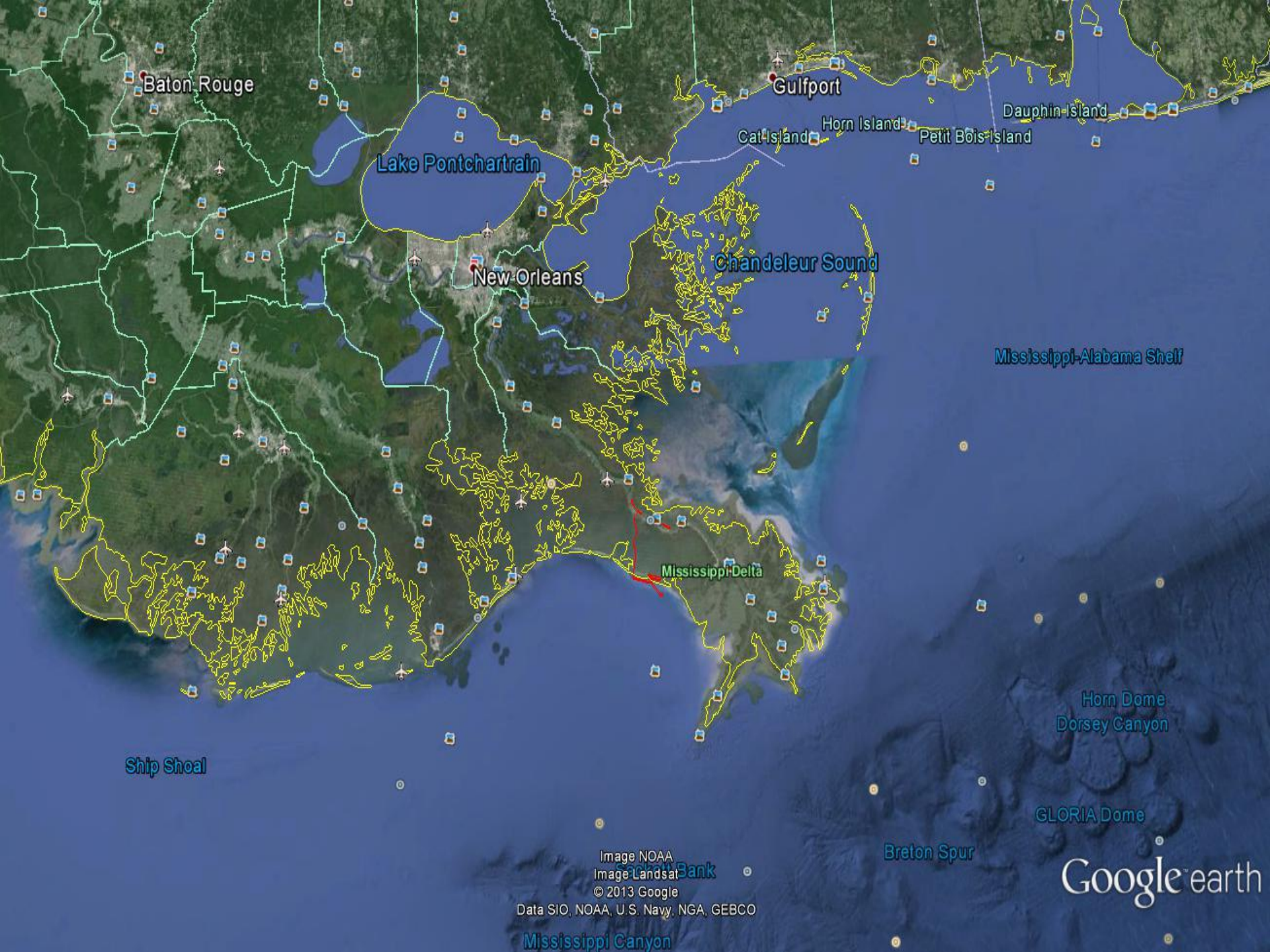












Baton Rouge

Gulfport

Lake Pontchartrain

Cat Island

Horn Island

Dauphin Island

Petit Bois Island

New Orleans

Chandeleur Sound

Mississippi-Alabama Shelf

Mississippi Delta

Horn Dome
Dorsey Canyon

Ship Shoal

GLORIA Dome

Breton Spur

Image NOAA

Image Landsat

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Data SIO, NOAA, U.S. Navy, NGA, GEBCO

Mississippi Canyon

Google earth



Pointe A La Hache Keller Outlet

Sable Island

Bosco Island
Dymond Island
Empire

Buras

Buras-Triumph

Plaquemines

Boo

Bastian Island

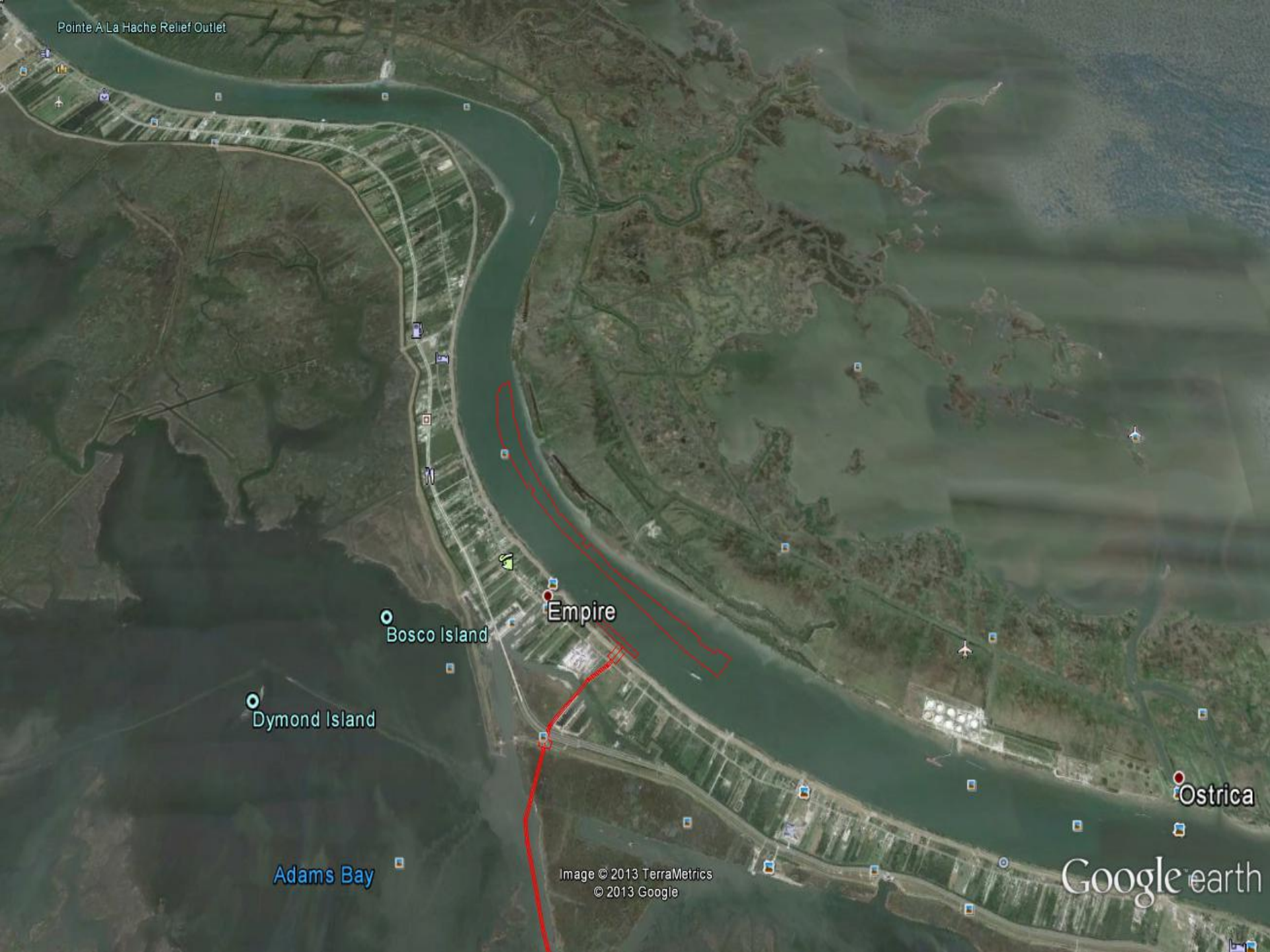
Lanaux Island

Pelican Island

Data SIO, NOAA, U.S. Navy, NGA, GEBCO
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Google earth

Pointe A La Hache Relief Outlet



Bosco Island

Empire

Dymond Island

Adams Bay

Ostrica

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Scofield Island







Shell Island East







HAPPY CUSTOMERS!



MORE HAPPY CUSTOMERS!



AND THE MOST IMPORTANT HAPPY CUSTOMER!



Challenges – Technical

- **Industry Days**
- **Time to Market**
- **Continue Building New Fleet**
- **Adapt Methods**
 - **Water Depth**
 - **Pump Distance**
 - **Pipe Stockpiles**



Challenges - Environmental

- Tolerances
- Priorities
- Doubts
- Science
- Goals



Challenges - Research

- Coastal Engineering
- Coastal Science
- U.S. Based
- Gulf Based



Beneficial Use

Old Concept – New Urgency

- Reclamation
- Coastal Protection
- Renourishment
- Marsh/Wetlands Creation
- Sand Bypassing

Challenges - Funding

- Federal
- Other Fed Agencies

- Cost Share
 - State?
 - Other Agencies?
 - Private?



**Question:
What does success look like?**

**Let's not forget to celebrate, when we
get there!**

IT ALL STARTS WITH DREDGING®

