

A photograph of a coastal landscape. In the foreground, there is a body of blue water. Behind the water is a marshy area with tall, dry grasses. In the background, there is a line of trees, some of which are bare and some have green foliage. The sky is clear and blue.

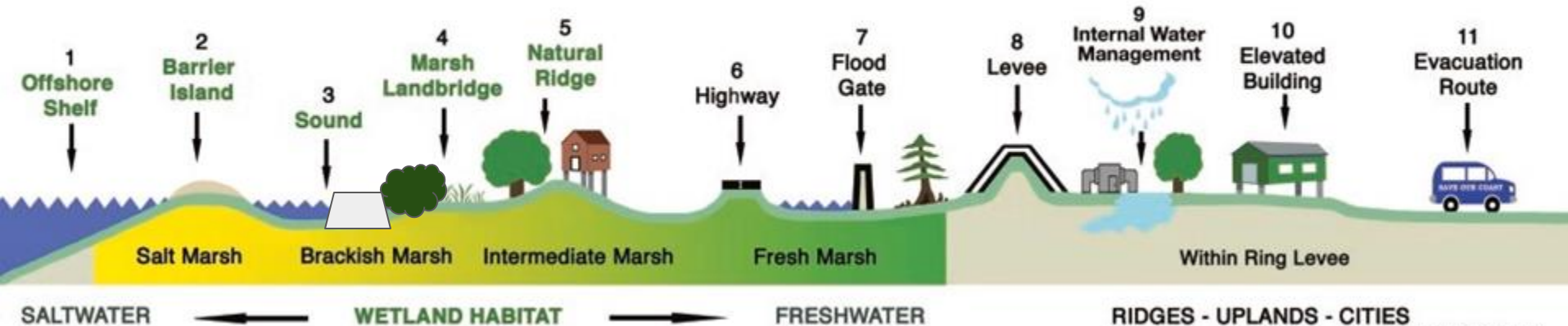
GANBASE

Coastal Restoration Louisiana

Meraux Foundation
Blaise Pezold

Multiple lines of defense

- Uses natural obstructions to slow storm surge
- Uses anthropogenic obstructions to slow storm surge
- Integrates both into a plan to reduce storm surge impacts

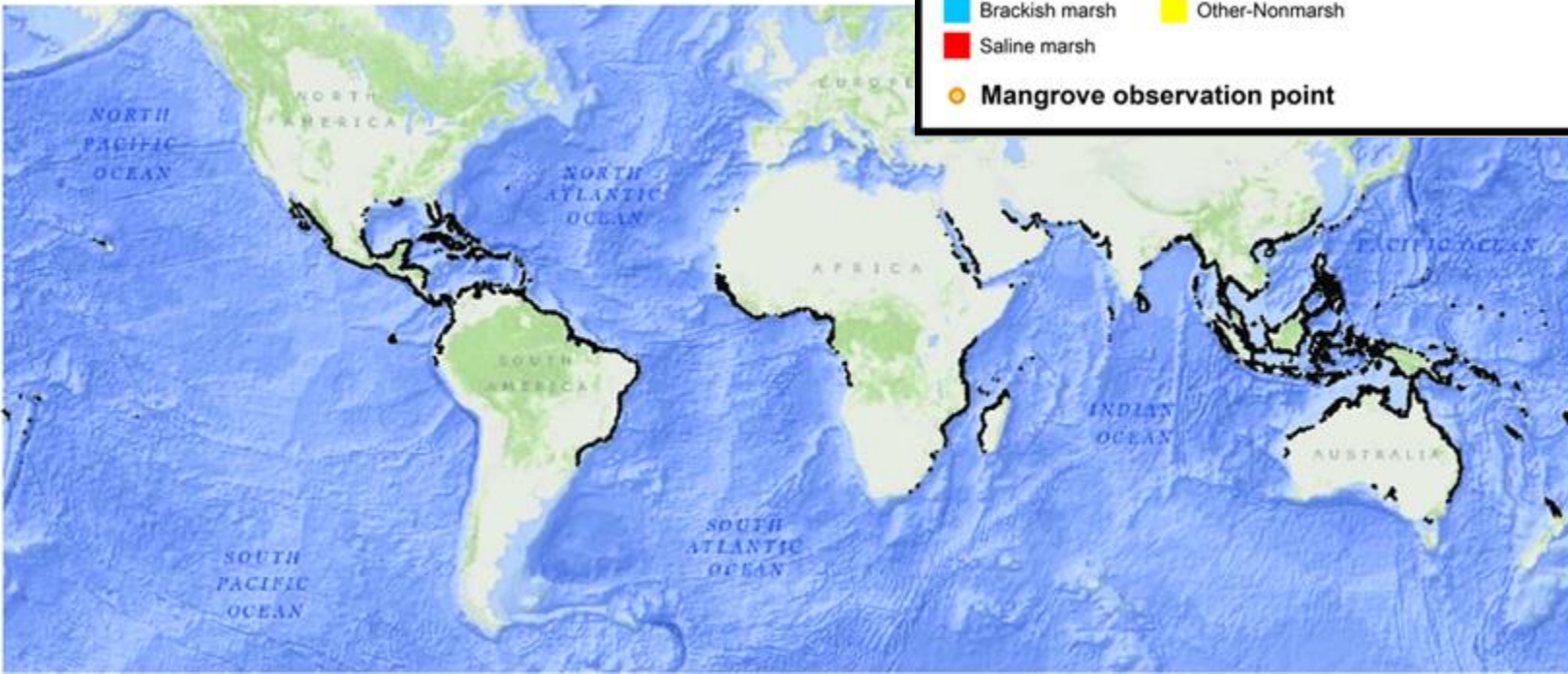
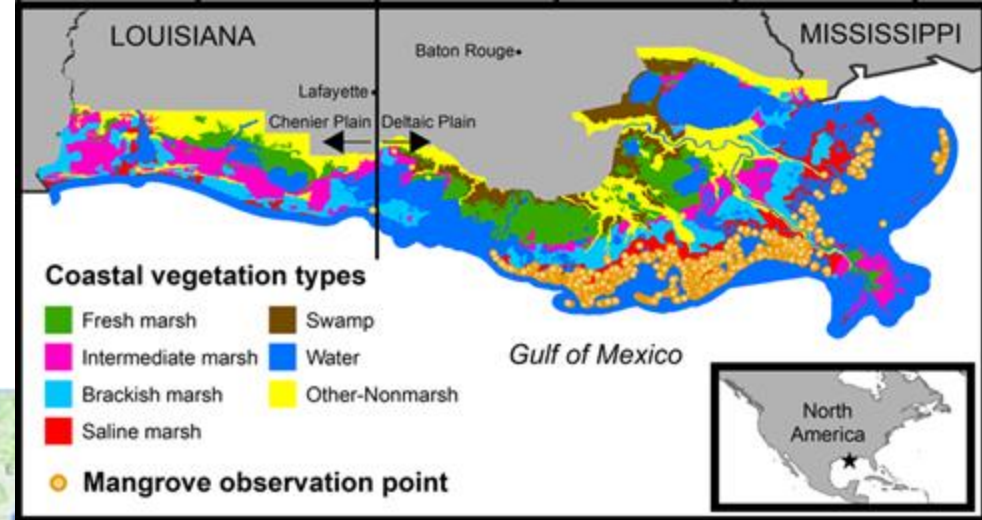




F R I C T I O N



Black Mangroves of the North



Chalmette High School 4H Black Mangrove Project



4H Black Mangrove

Planting sites

Legend

- Black Mangrove 2023, 7,135 ft.
- Black Mangrove 2024, 8,715
- Black Mangrove Planting 2021
- Mangrove Site 2017
- Mangrove site 2018
- Mangrove site 2019

Where?

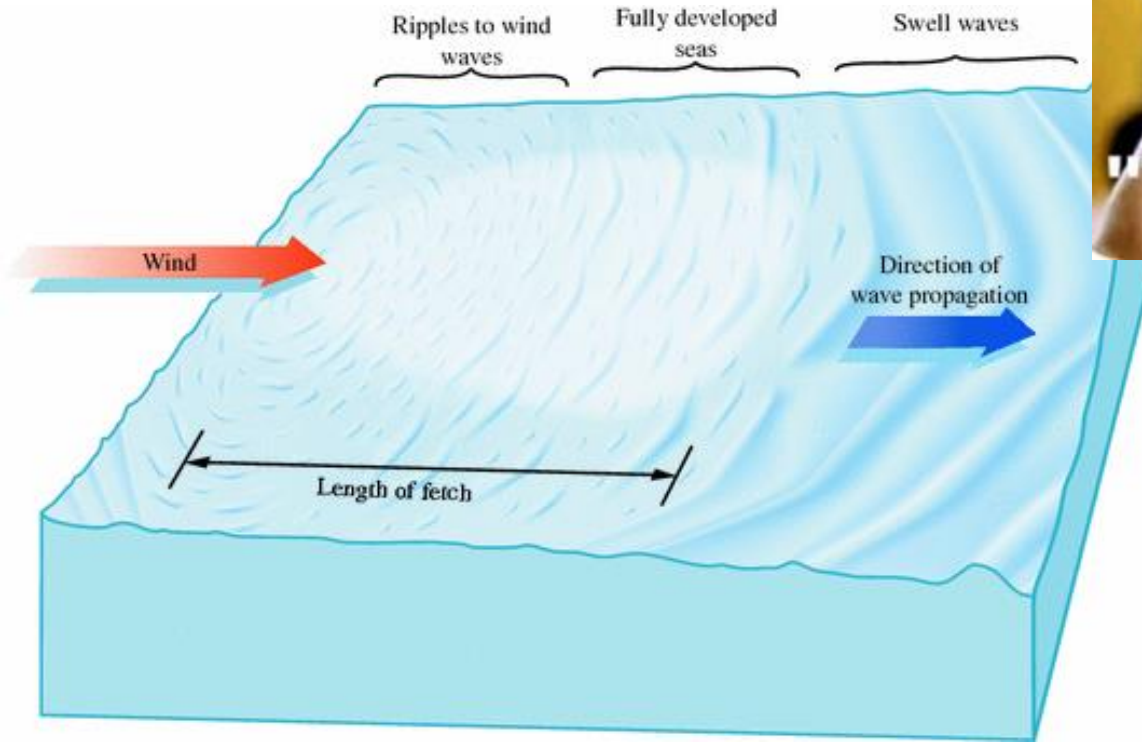


Google Earth

Image © 2023 CNES / Airbus
Image © 2023 Maxar Technologies

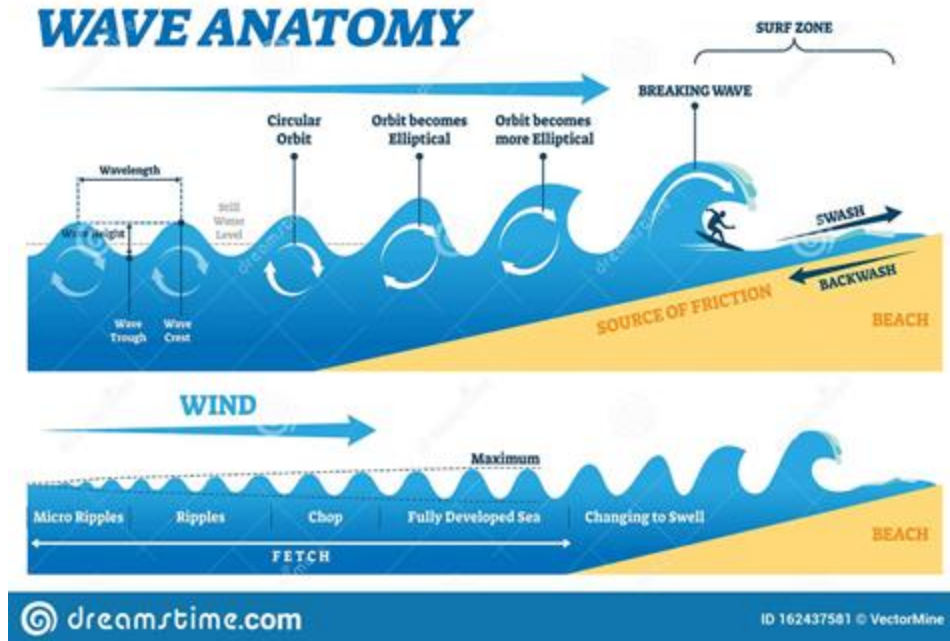


That's so Fetch



- Wind induced erosion
- Based on length traveled across a water body
- Can be mitigated by vegetation type or armoring

Large Shallow Lakes= Large waves and High erosion



CWPPRA (Breaux Act) La.39 Coastwide Vegetation Program



3/2023

Survey

Image © 2023 Maxar Technologies
Image © 2023 Airbus

Google Earth

LA-39 Year Nominee Joe Madere Marsh

Legend

- Previous planting
- Xmas tree barrier
- Proposed Planting

Google earth

1 mi



Year 8 Joe Madere Marsh
Preliminary Concept

Legend

- Double Row
- Single Row Around Trees
- Single Row Shoreline

~6,780 trade gallon *Schoenoplectus californicus* plants
~\$80,000

Google Earth

©2018 Google



3000 ft

Growth from 2018-2021



MRGO/Rock Dam/35 ppt



The Central Wetlands Unit



Dreams to reality via teamwork



The rise of Central Wetlands Reforestation Collective





Central Wetlands Reforestation Collective 2/21/25: Bayou Bienvenue
[Common Ground Relief, Meraux Foundation, CSED]

 Trees Planted to date: **6,408**
 Grasses Planted to date: **7,000**

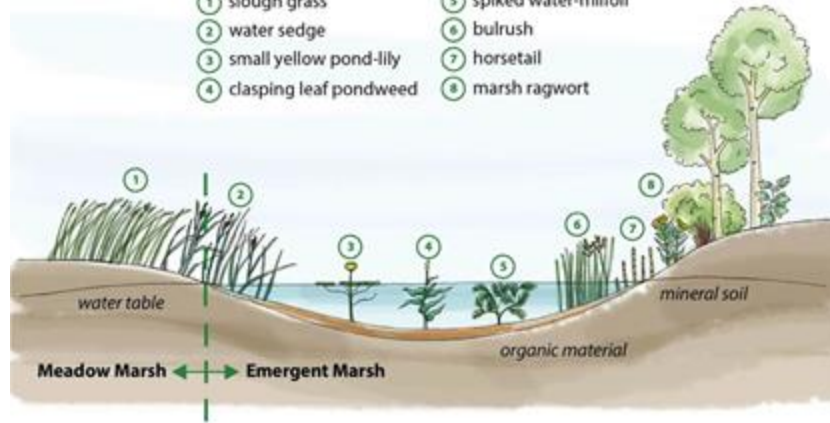


1-2 miles wide and 3 ft. depth/Multiple funding sources

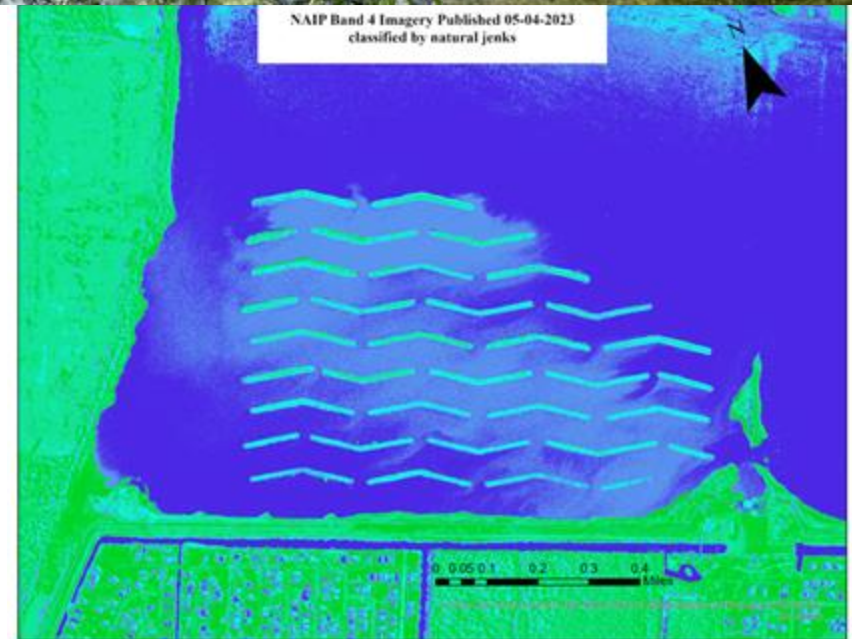
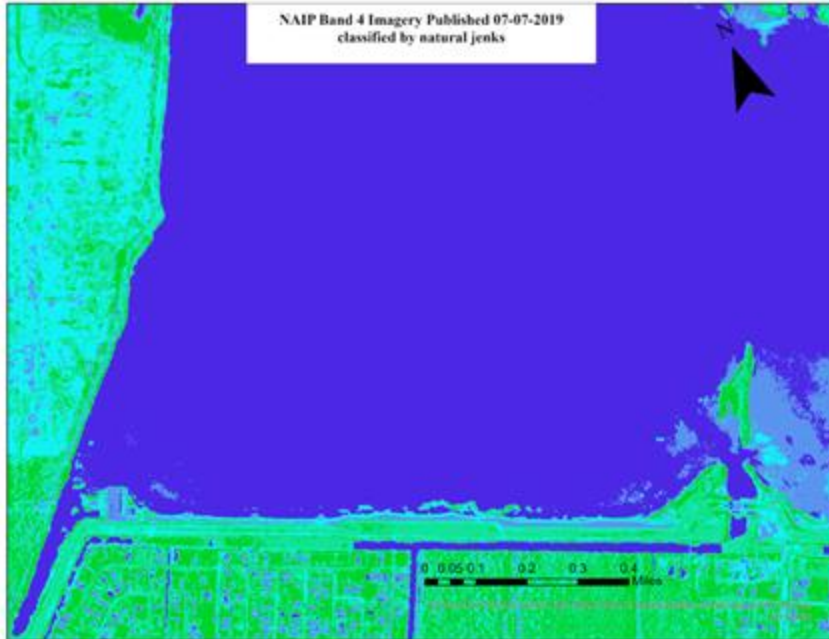


Construction and goals

- ① slough grass
- ② water sedge
- ③ small yellow pond-lily
- ④ clasping leaf pondweed
- ⑤ spiked water-milfoil
- ⑥ bulrush
- ⑦ horsetail
- ⑧ marsh ragwort



Submersed Aquatic Vegetation



Woody plants:



Cypress, Tupelo, Red Maple, Green Ash, Button Bush, Black Willow and Lead Plant

Grass/Pollinators plants:



Bulrush, Giant Cutgrass, Sawgrass, Bulltongue, Swamp Sunflower, Pickerel Weed, American Lotus, Louisiana Iris

Bayou La Loutre Ridge Restoration and Marsh Creation



Bayou La Loutre Ridge Restoration and Marsh Creation (PO-178)



Map Produced by:
U.S. Department of the Interior
U.S. Geological Survey
Wetland and Aquatic Research Center
Coastal Restoration Assessment Branch
Baton Rouge, La.

Background Imagery:
2019 NAIP Photography

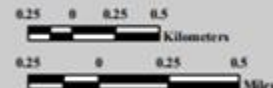
Map Date: September 22, 2020
Map ID: USGS-NWRC 2020-11-0019
Data accurate as of: September 22, 2020

Reggio Marsh Creation and Hydrological Restoration



Reggio Marsh Creation and Hydrologic Restoration (BS-43)

-  Canal Plugs *
 -  Marsh Creation/Nourishment *
 -  Project Boundary
- *denotes proposed features

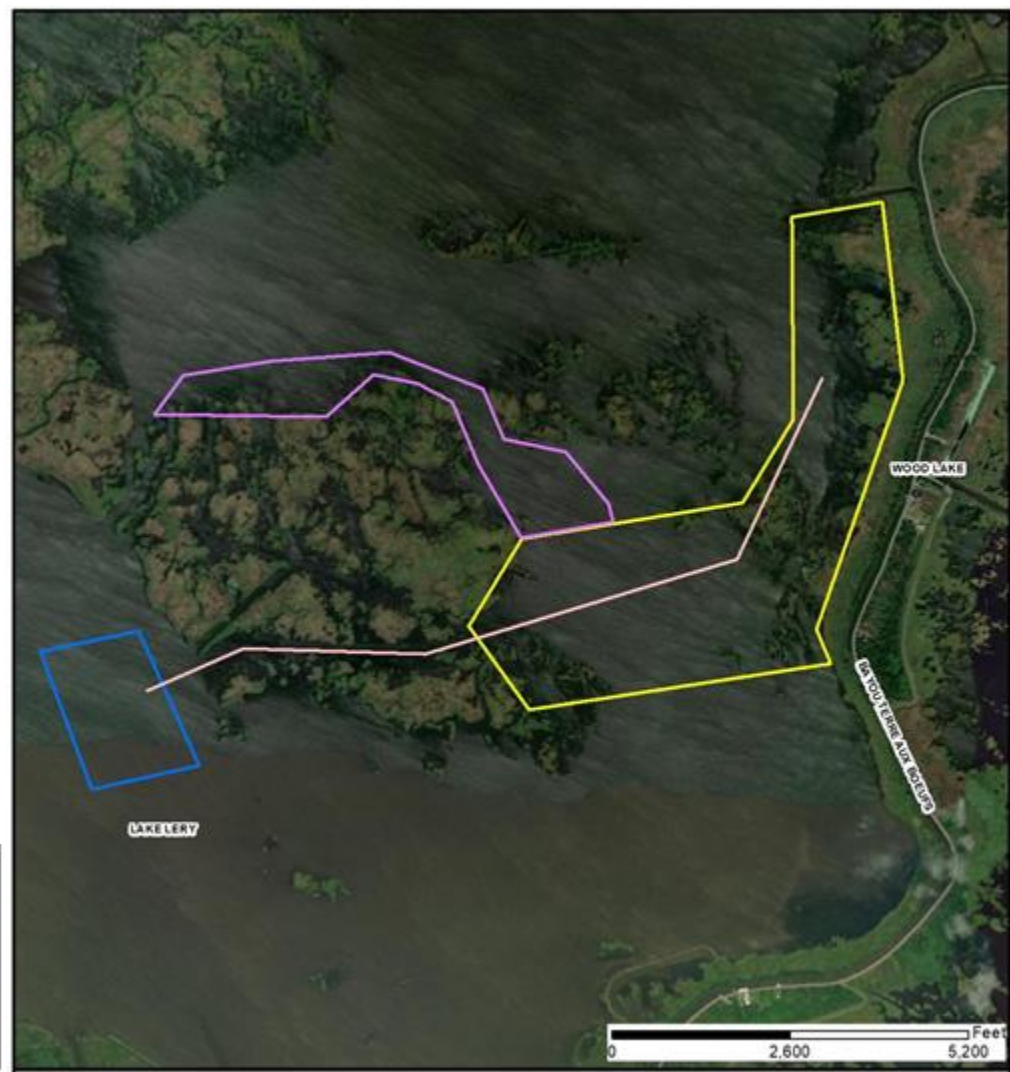


Map Produced by:
U.S. Department of the Interior
U.S. Geological Survey
Wetland and Aquatic Research Center
Coastal Restoration and Assessment Branch
Baton Rouge, La.

Background Imagery:
2018 NAIP

Map Date: February 17, 2021
Map ID: USGS-NWRC 2021-11-0005
Data accurate as of: January 15, 2021

Woodlake Marsh Creation and Terraces



Map Produced By:
United States Department of Agriculture
Natural Resources Conservation Service
Bossierde, LA

Date Issued: 1/20/2022
Map Date: JANUARY 18, 2024



PPL 34
WOOD LAKE
MARSH CREATION
AND TERRACES
ST BERNARD PARISH, LA



Legend

- MARSH_CREATION
- TERRACE_FIELD
- WETLAND_AREA
- DREDGE_PUMP_CONDUIT

Reggio West Marsh Creation and Hydrological Restoration



A satellite image of a coastal region. In the upper right, there are snow-capped mountains. A river flows from the land into the ocean, creating a large, light-colored delta. The land is covered in dense vegetation, appearing in shades of green and brown. The ocean is a deep blue. The word "Questions?" is written in blue text in the upper left quadrant of the image.

Questions?