Atchafalaya River Basin Conservation

Influence on Coastal Processes

Baton Rouge Fish and Wildlife Conservation Office
The Atchafalaya Natural Resource Conduit
USGS Northern Gulf of Mexico Program (NGOM)

EPA/GOM Watershed Nutrient Reduction

Louisiana Coastal Restoration
Long Term Land Change in the ABFS

Historical Connection of Atchafalaya River

1803 – 1838

Present
Long Term Land Change in the ABFS

Lower River Outlets

1803-38

1932-35

Present
Old River Control Structures and Vidalia Hydroelectric Facility

The Atchafalaya River Basin Floodway System

Atchafalaya River @ Morgan City

Wax Lake Outlet
Inundation Sequence

Atchafalaya River Stage (ft NGVD)

US Geological Survey
National Wetlands Research Center
Coastal Restoration Field Station
13 Construction Elements

Closures and New River Diversion

Goal: Minimize Hypoxia by Promoting Water Movement

Predefined Target Area
Assessment of Diversion from Image Classification

Data

Post-Construction Turbidity
River Stage 14.7 ft

Pre-Construction Turbidity
River Stage 14.7 ft
Turbidity Classification From TM5 Satellite Imagery

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Land/Water Classification From TM5 Satellite Imagery

Legend
- always water
- 8/9 water
- intermediate
- 8/9 land
- always land

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