

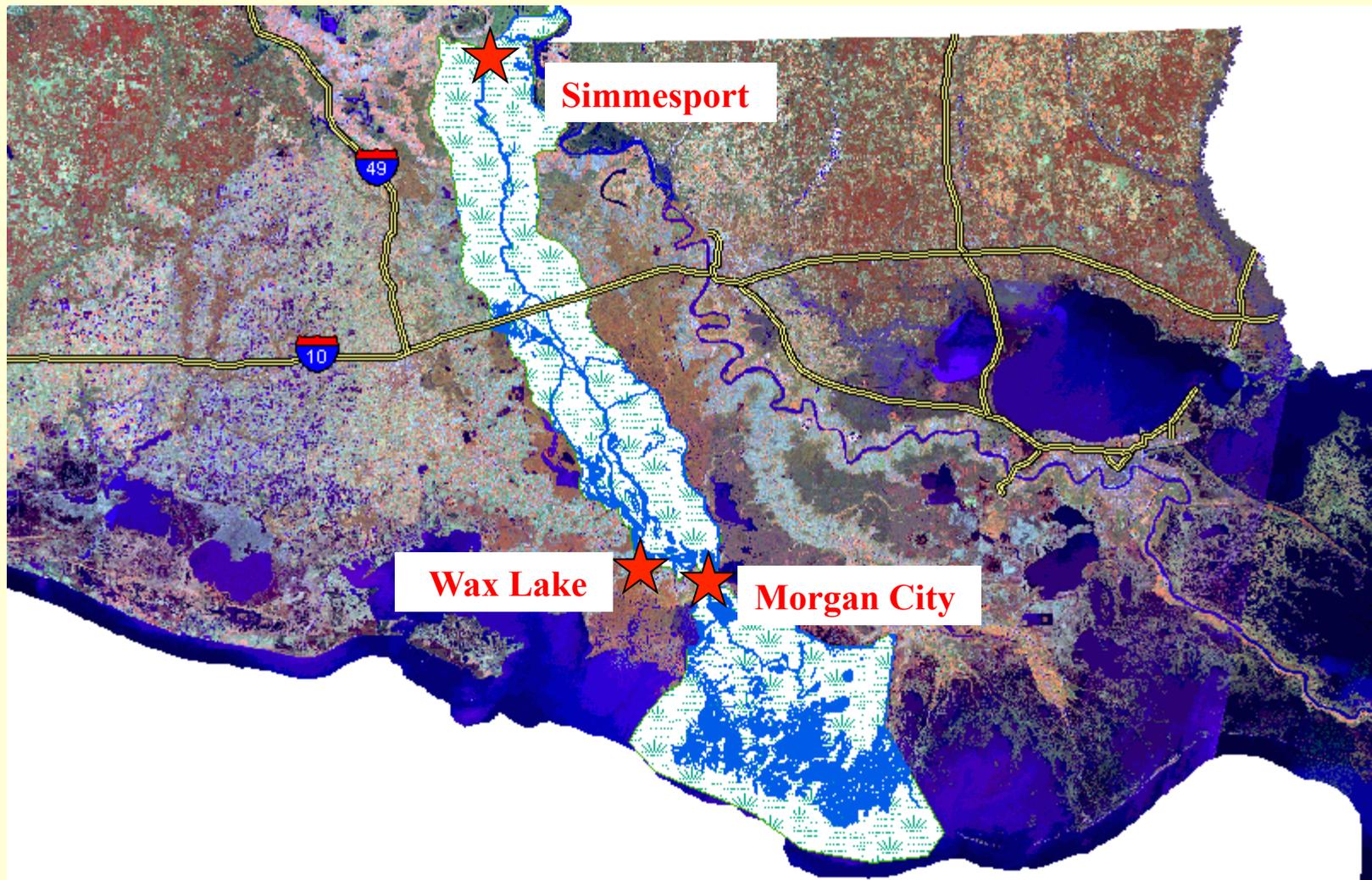


Hydrology of Forested Wetlands in the Atchafalaya River Basin

**Richard H. Day
Thomas W. Doyle and Steve Hartley**

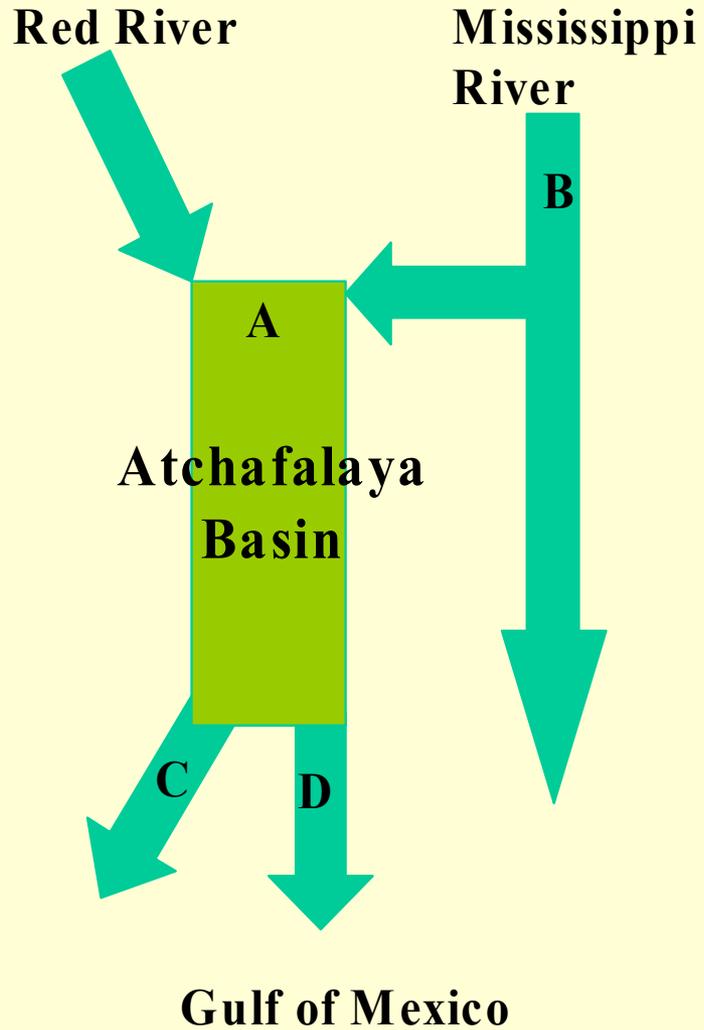
**U.S. Geological Survey
National Wetlands Research Center
Lafayette, LA**

Atchafalaya Basin and Delta Complex



Gaging Stations:

A- Melville B- St. Francisville
C- Wax Lake D- Morgan City

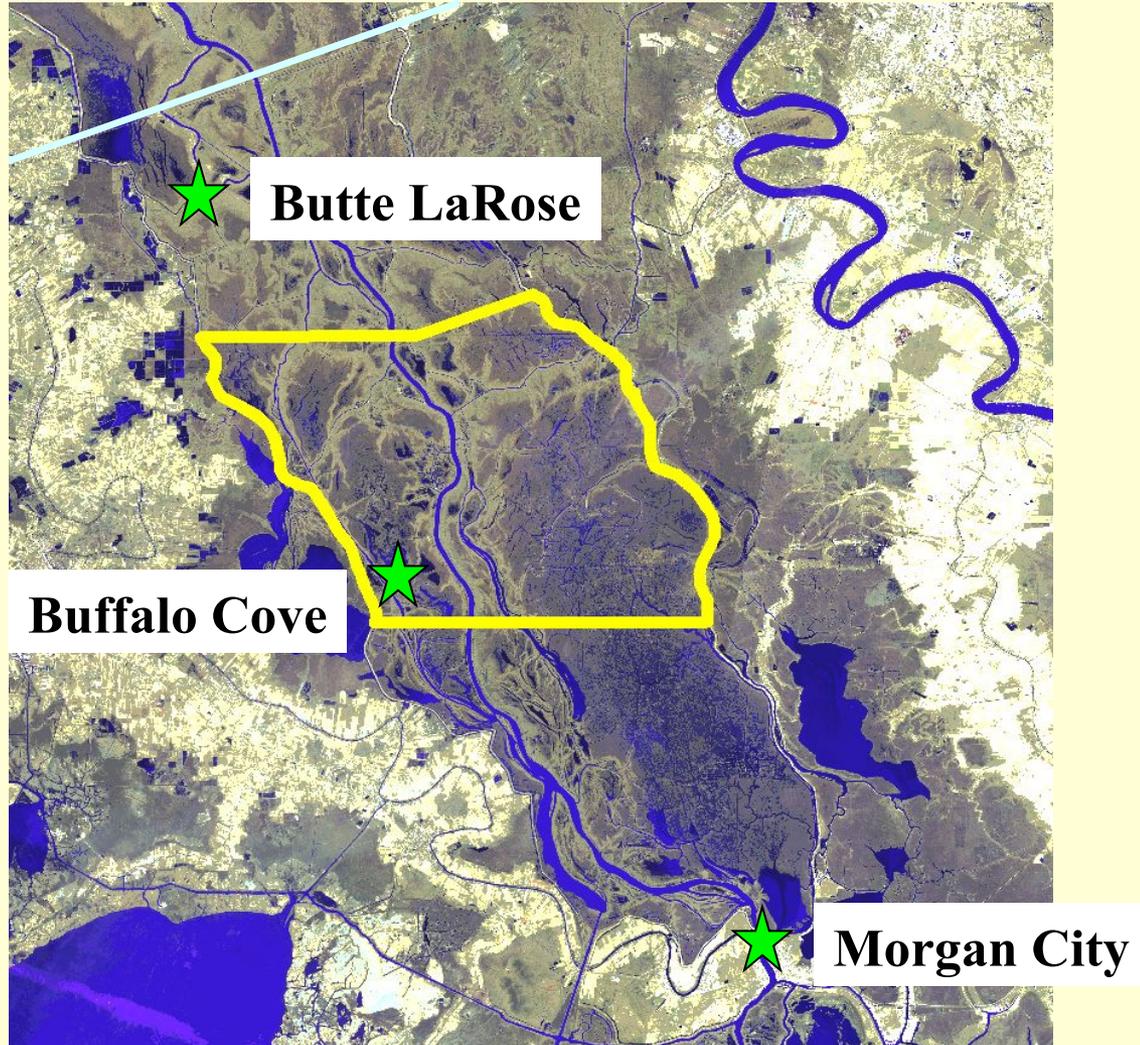


In-channel Gage Locations

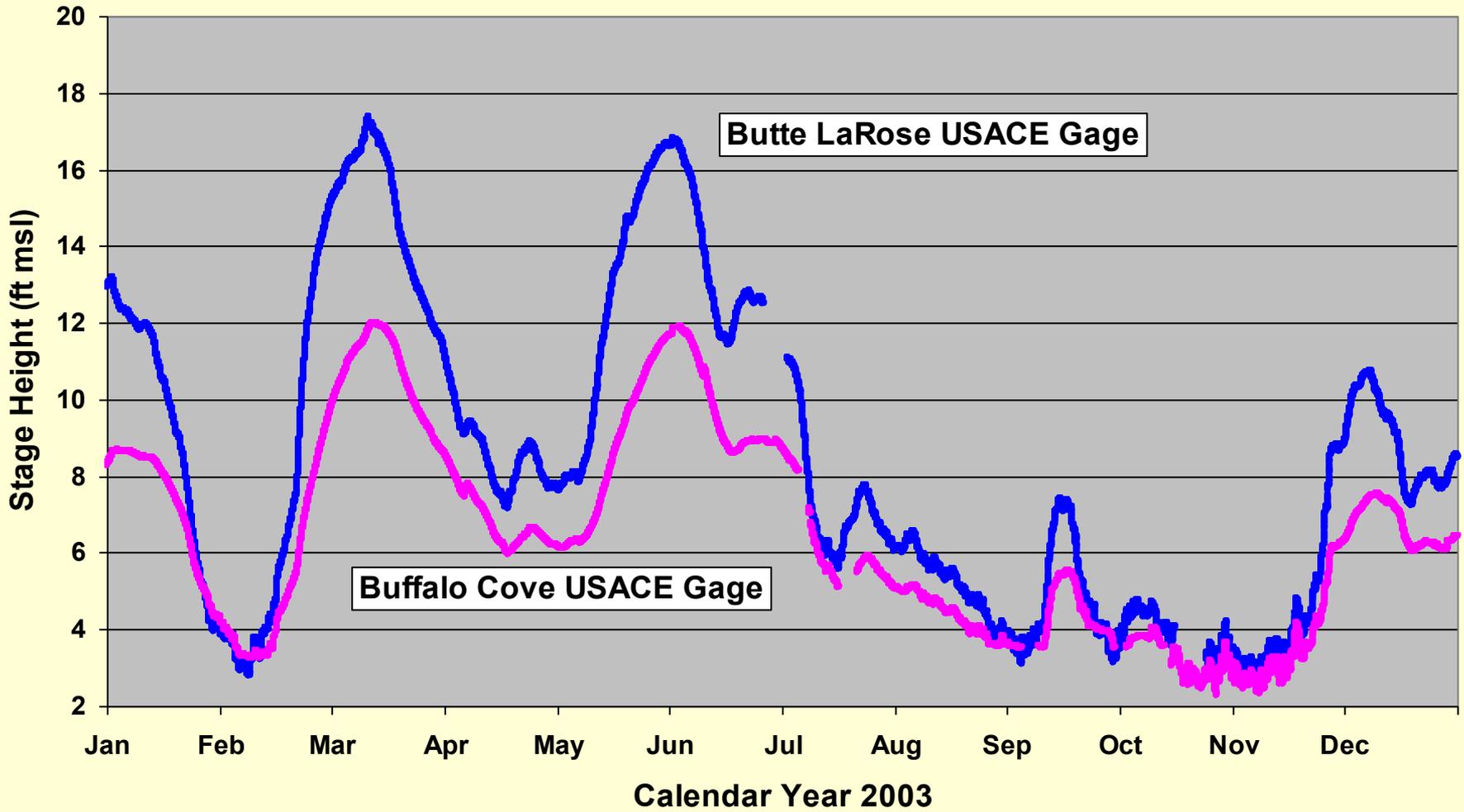
Satellite Imagery - 2002

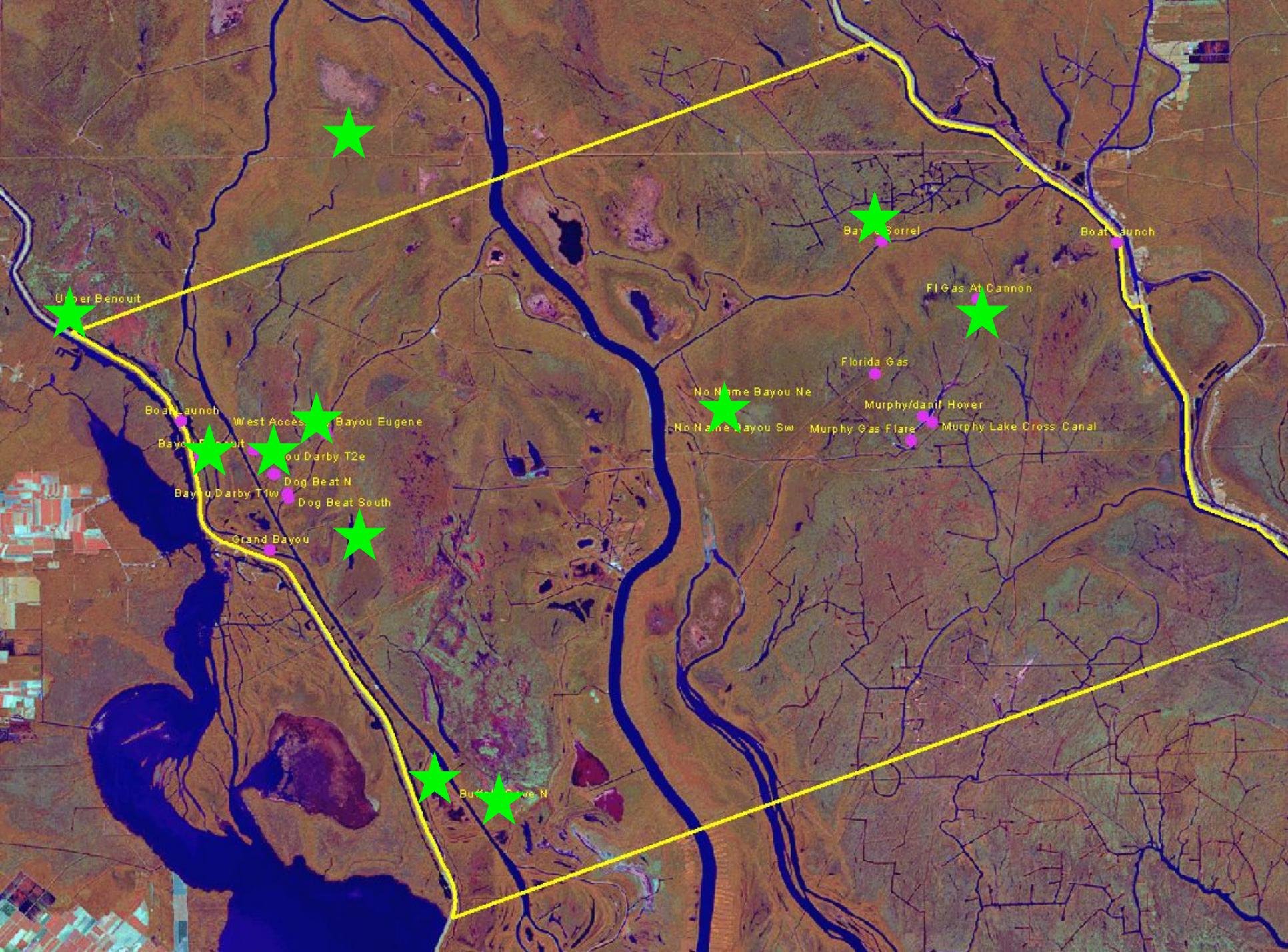
Interstate 10

Gages ★



In-channel Hydrographs Atchafayala Basin





Upper Benouit

Bayou Borrel

Boat Launch

FI Gas At Cannon

Florida Gas

No Name Bayou Ne

Murphy/danif Hover

Boat Launch

West Access

Bayou Eugene

No Name Bayou Sw

Murphy Gas Flare

Murphy Lake Cross Canal

Bayou Benouit

Bayou Darby T2e

Dog Beat N

Bayou Darby T1w

Dog Beat South

Grand Bayou

Buffalo Cove N

Backswamp Hydrology



DRY



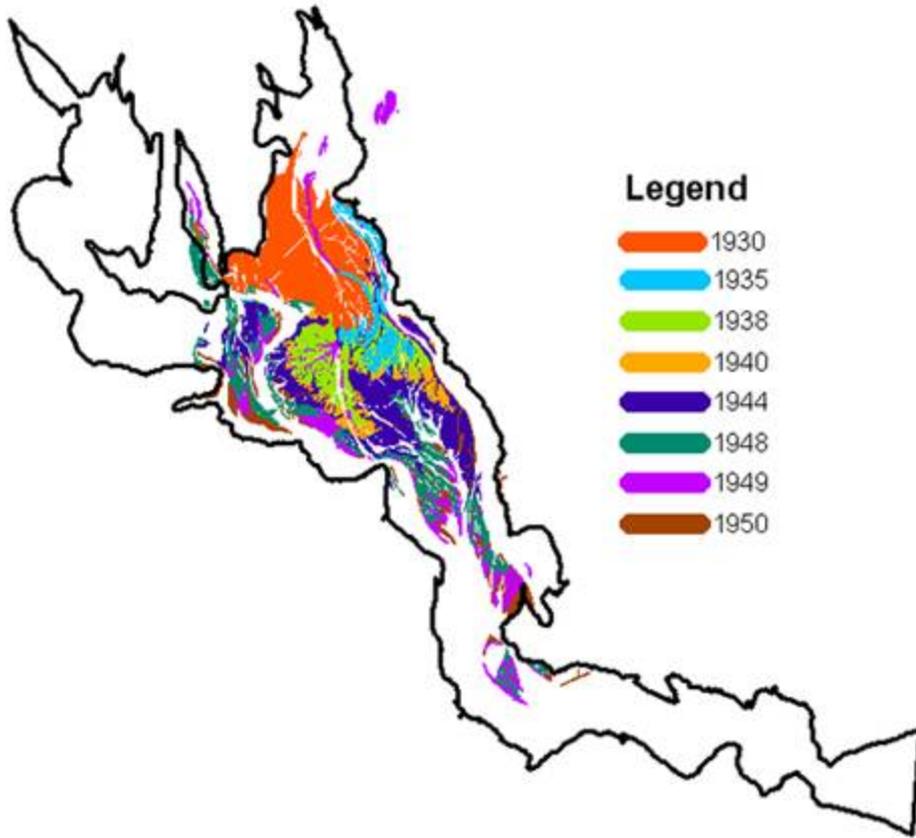
7 FEET OF WATER





1917 boundary of Grand Lake with sequential filling by sediment

Lower Atchafalaya Basin at present with 1917 Grand Lake boundary superimposed

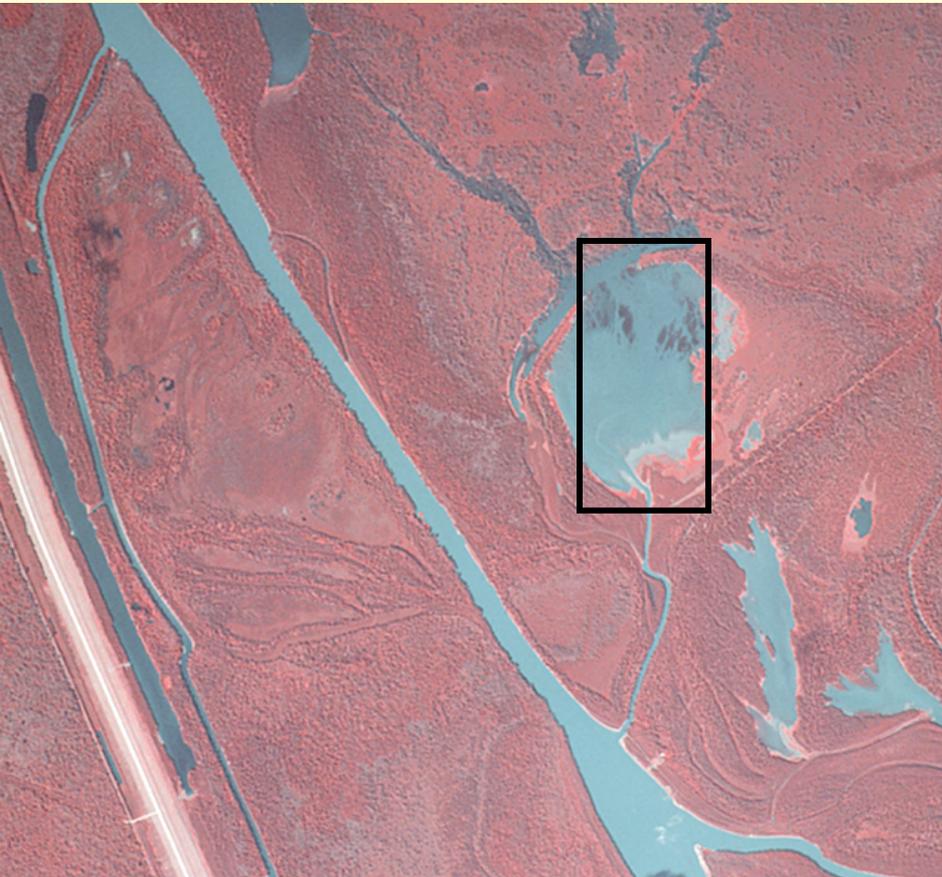


> 50,000 ha of open water lakes have filled with sediment since 1917

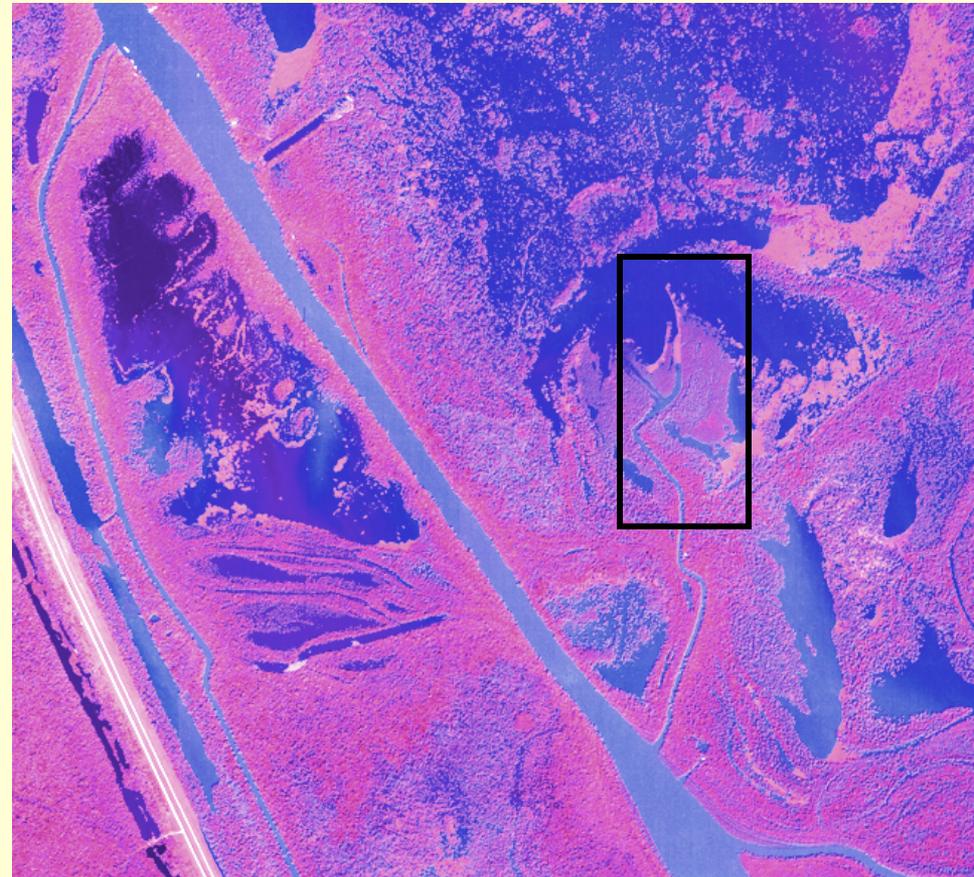
BUFFALO COVE Gage & Transect

20+yrs Siltation Progress

1978 Photo



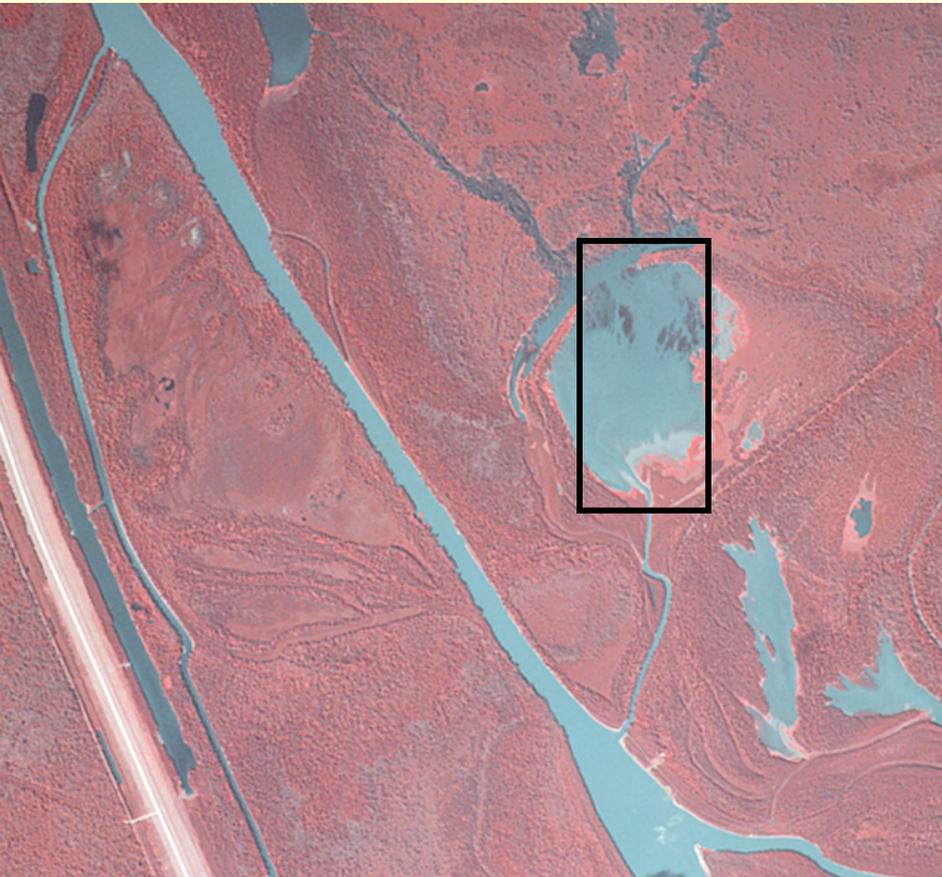
2001 Photo



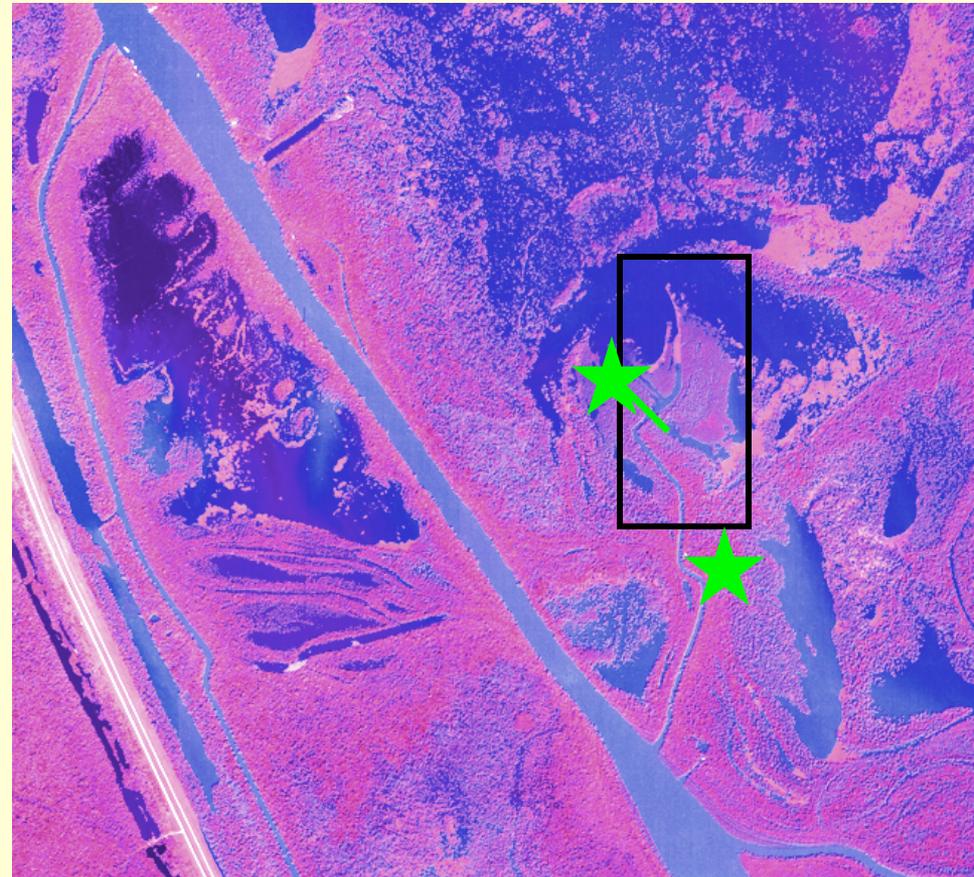
BUFFALO COVE Gage & Transect

20+yrs Siltation Progress

1978 Photo



2001 Photo





Buffalo Cove

Black Willow Advance

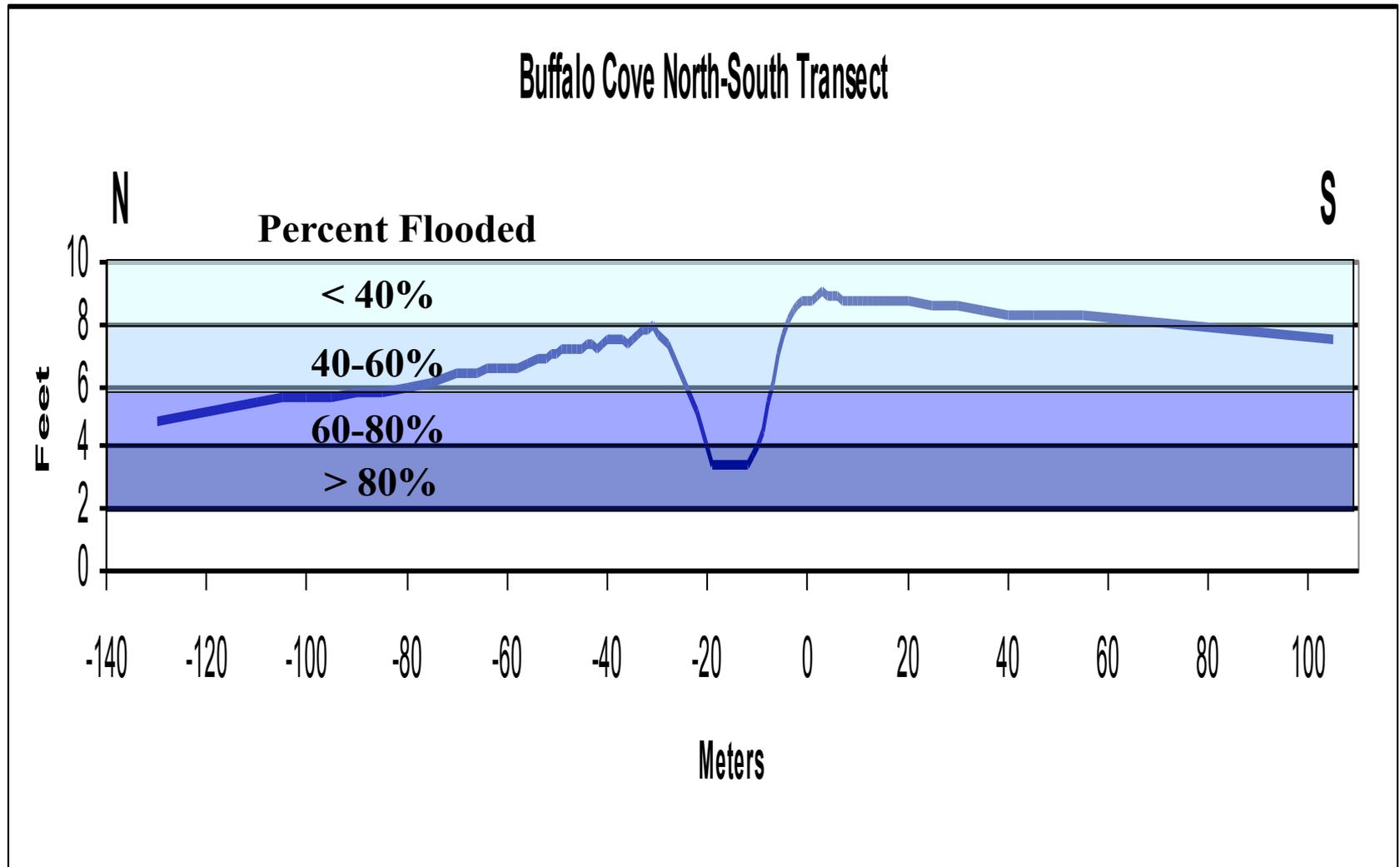


**Atchafalaya Basin: Black Willows on Aggrading Point Bar
(now Flood Plain) at Buffalo Cove**

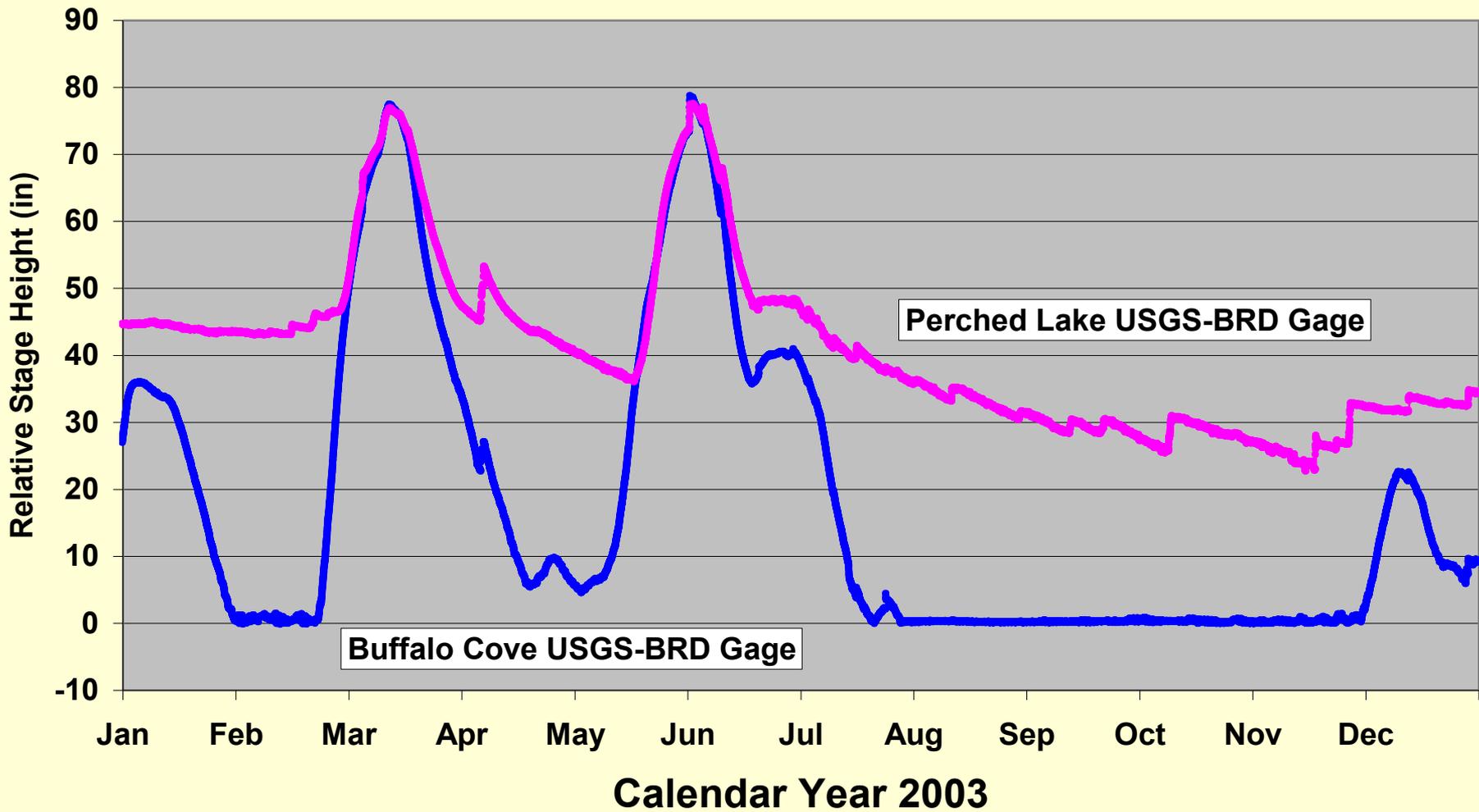
Installing a clay pad



Flood Frequency Zones

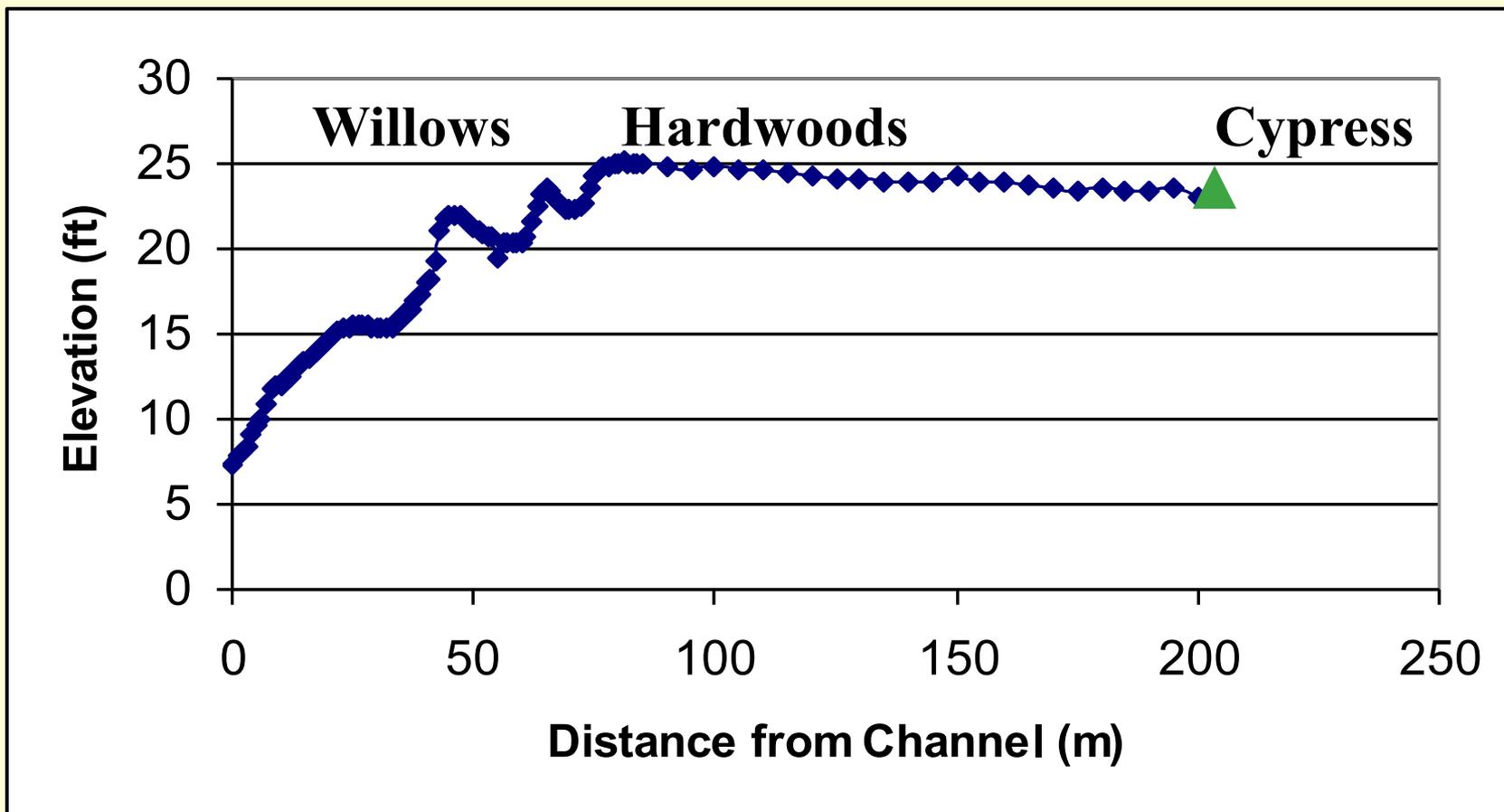


Backswamp Hydrographs Atchafalaya Basin

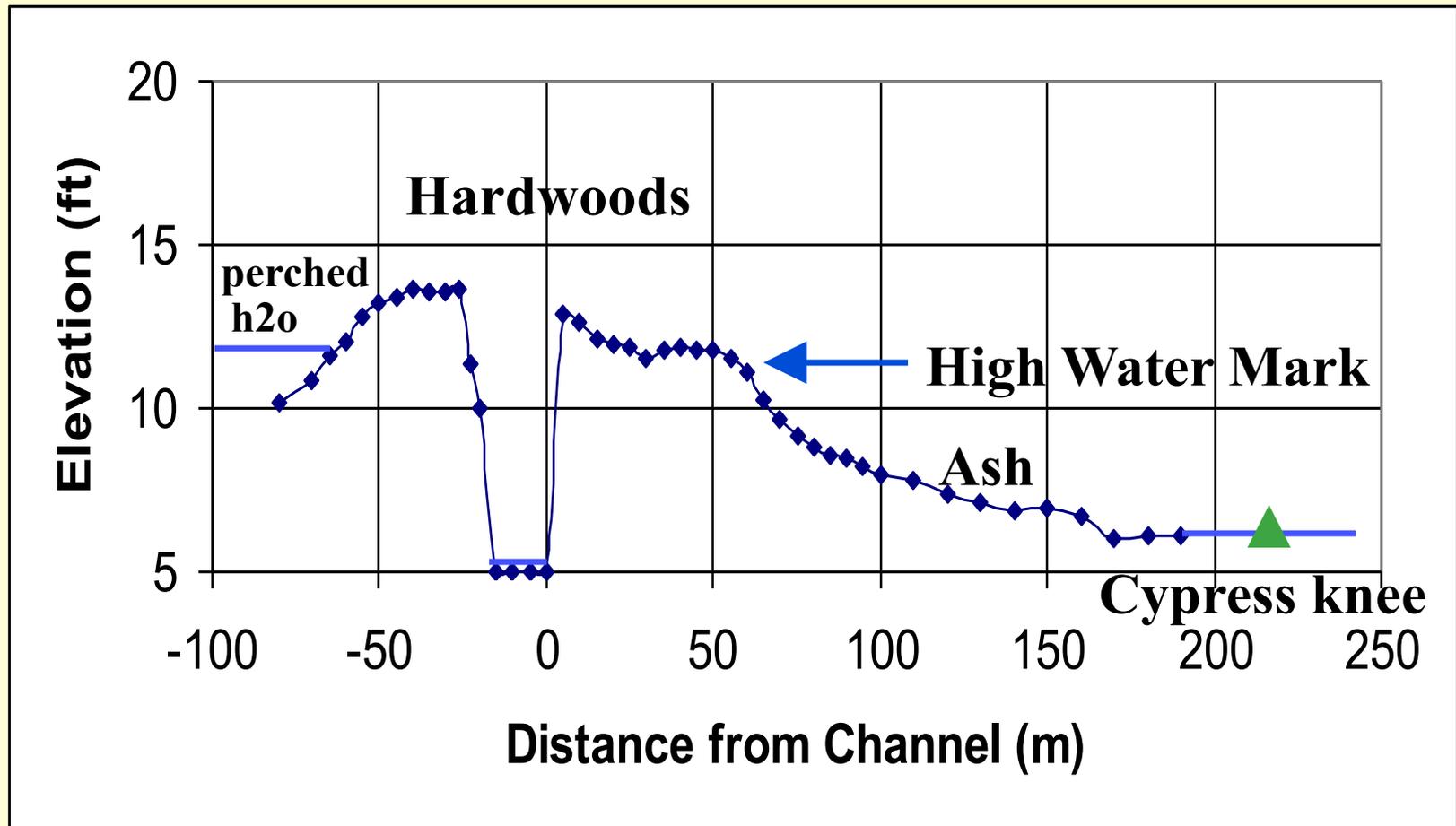


Atchafalaya River Levee Transect

Butte La Rose, LA



Backswamp Elevation Transect



Buttswell and Water Marks



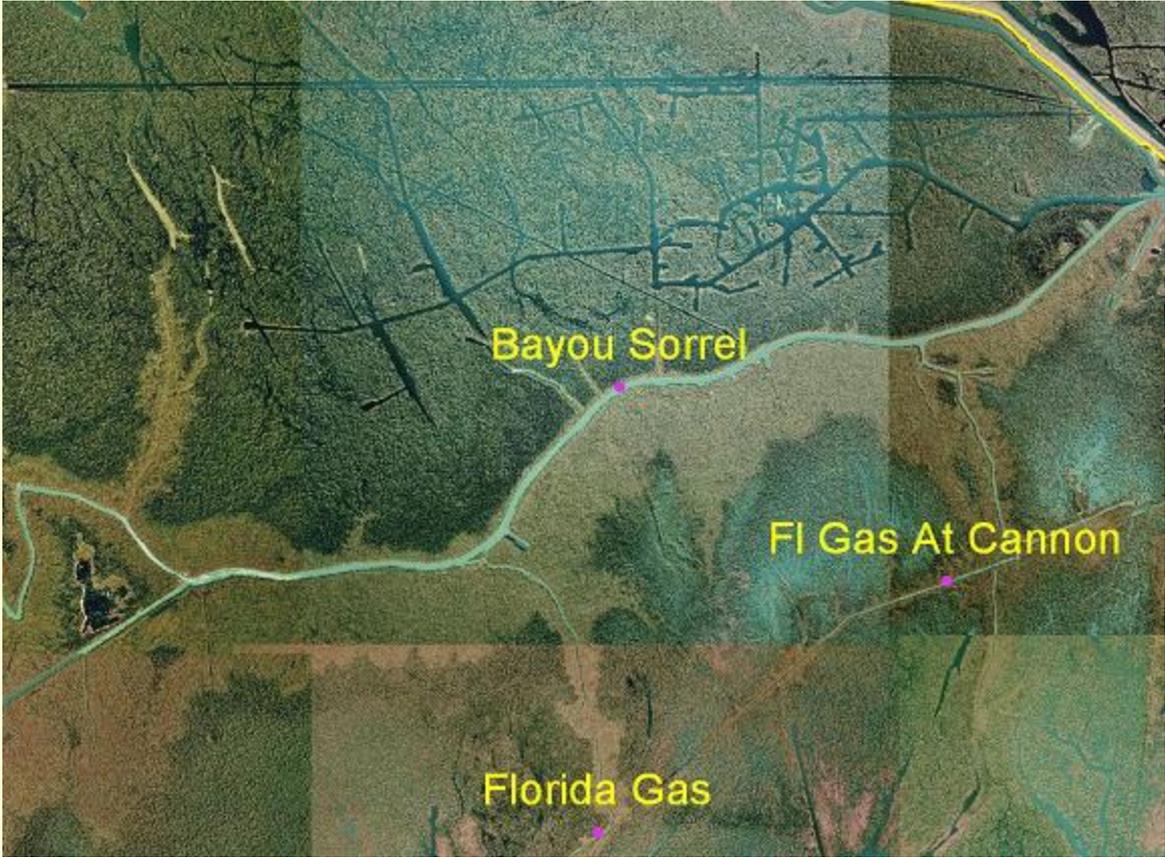
Adventitious Roots

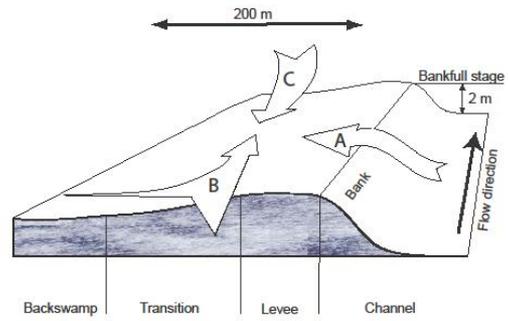


Sedimentation Patterns



Sediment plume in Atchafalaya Basin

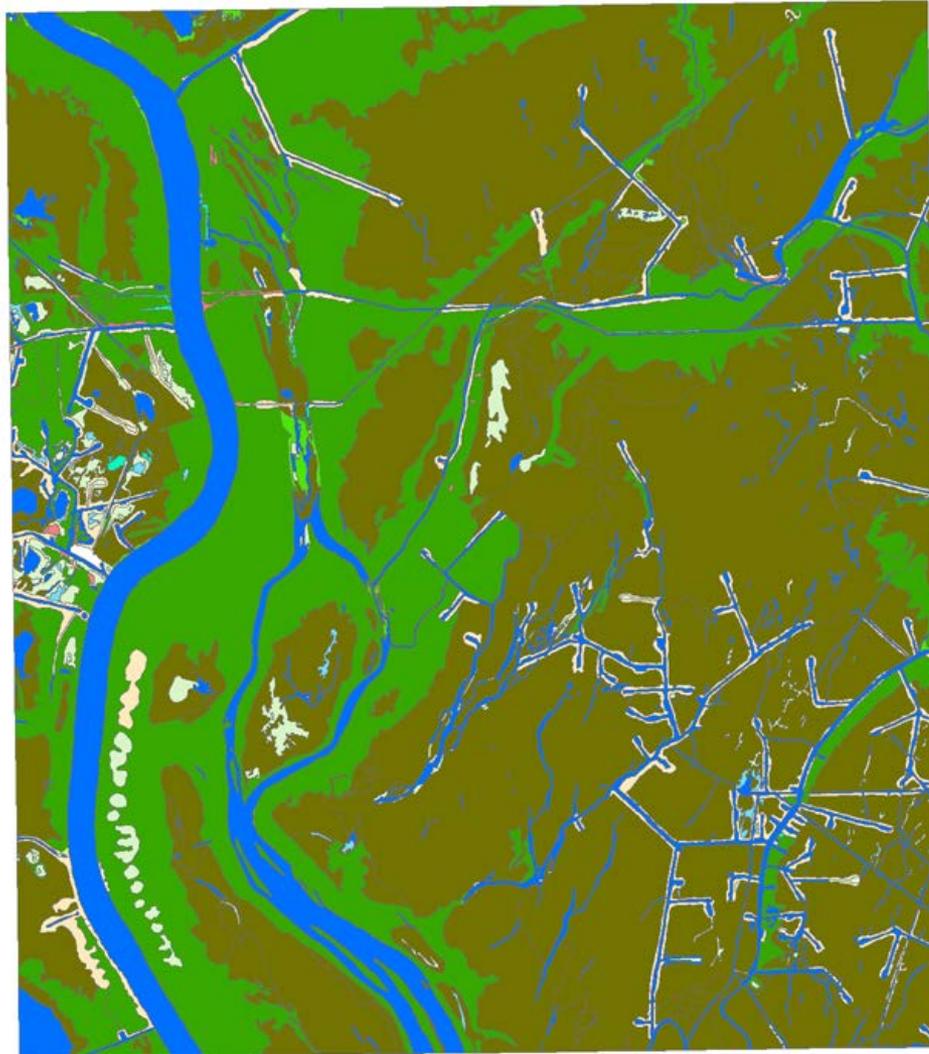




Vegetation Classification

HABITAT

	L1UBH
	PAB3H
	PEM1C
	PFO1/2C
	PFO1/2F
	PFO1C
	PFO1Cs
	PFO1Cw
	PFO1F
	PFO2/1F
	PSS1C
	PSS1Cw
	PUBH
	R2UBH
	R2UBHx
	UB
	UU



LIDAR

