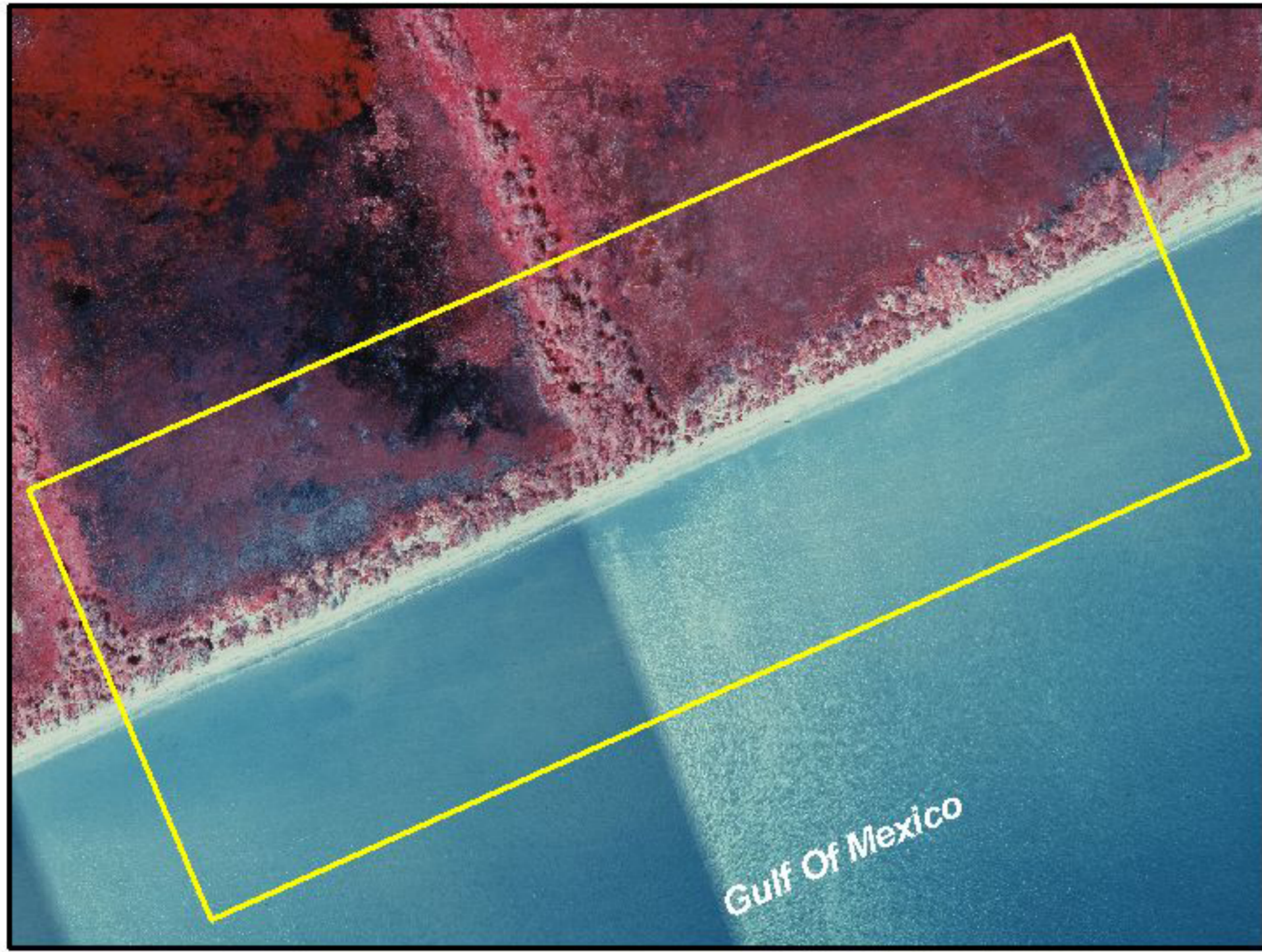


Cheniere Au Tigre Sediment Trapping Demonstration (TV-16)

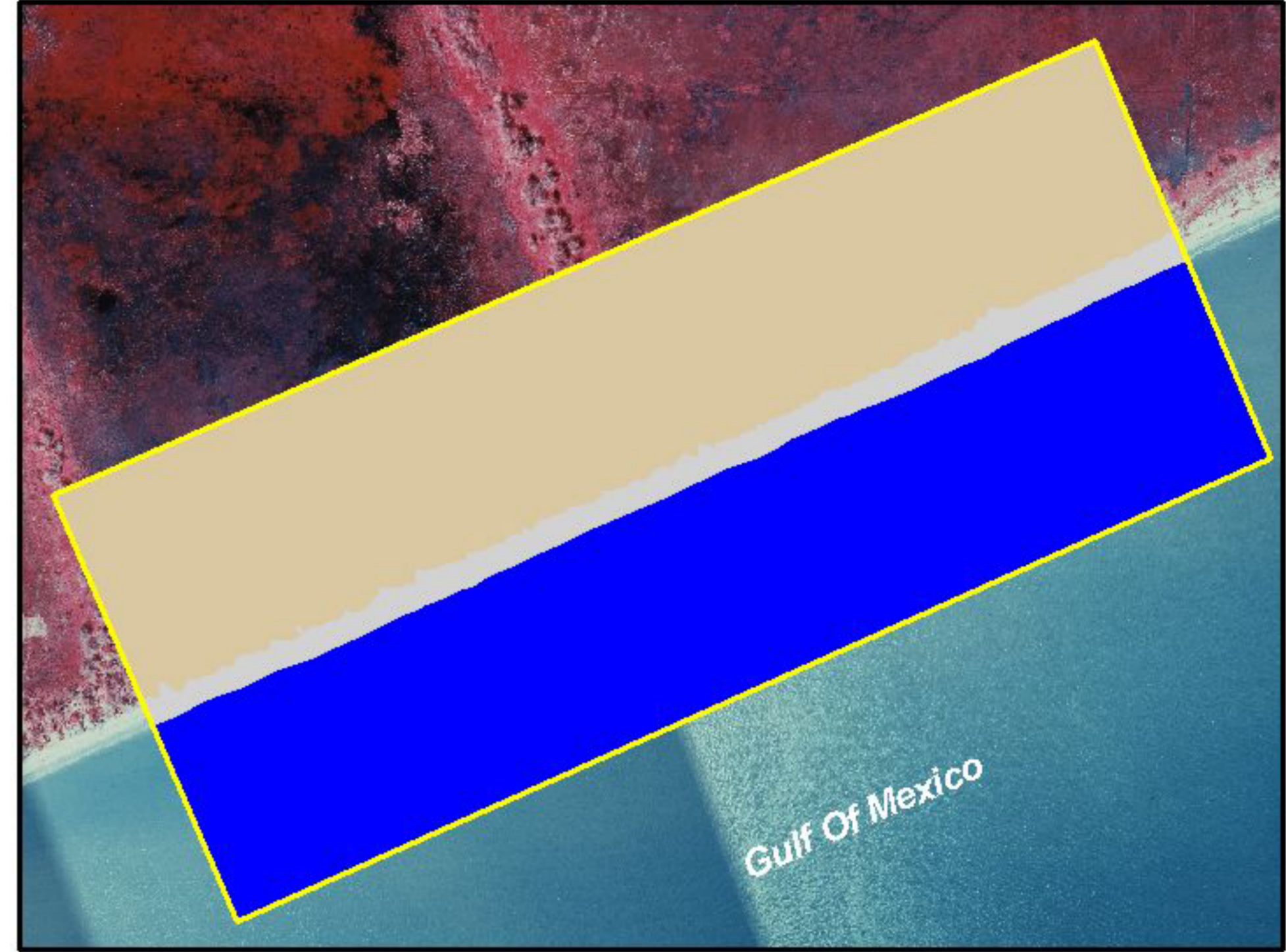
Coastal Wetlands Planning, Protection and Restoration Act

Pre- and Postconstruction Land-Water-Beach Analysis

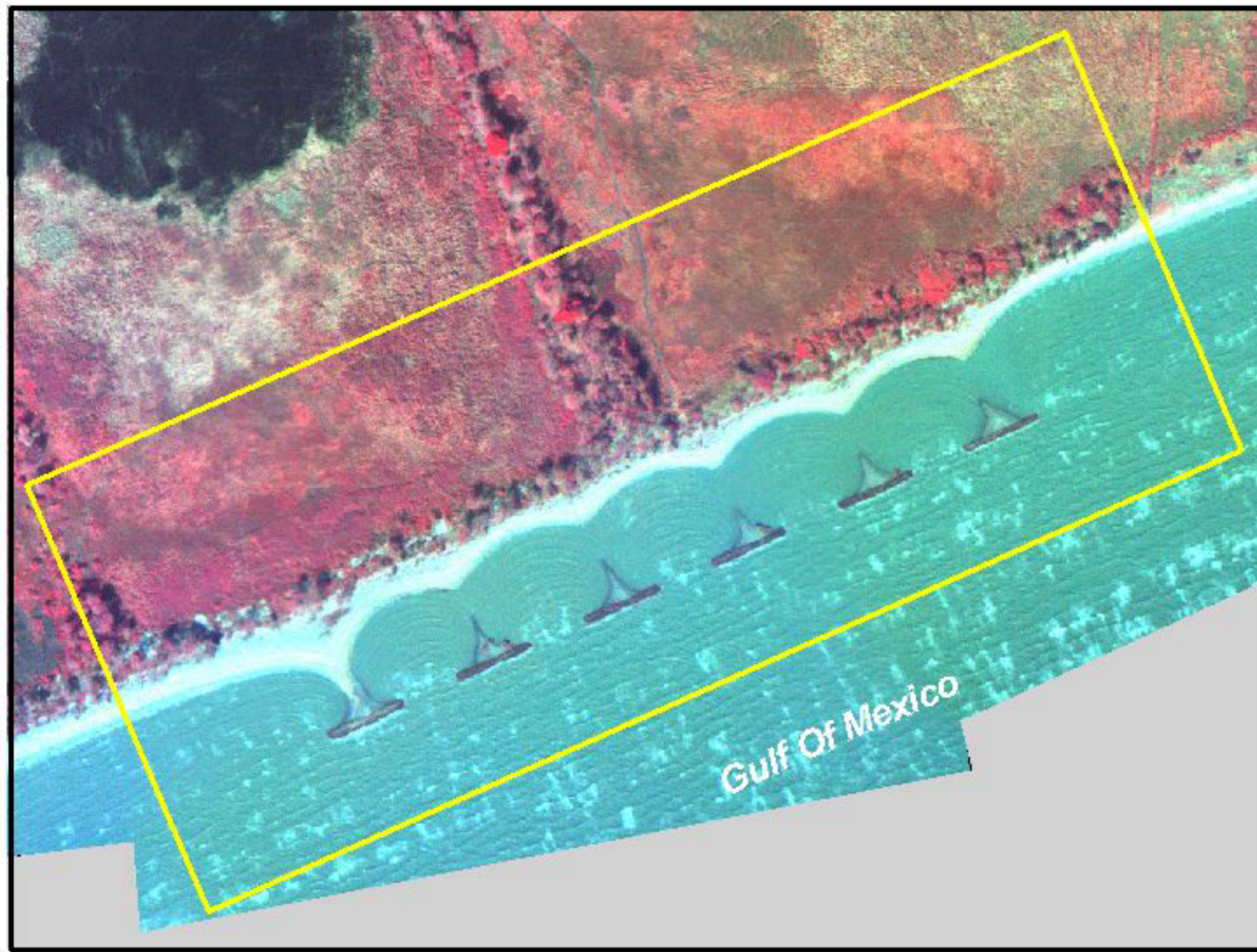
March 2001 Photomosaic (Preconstruction)



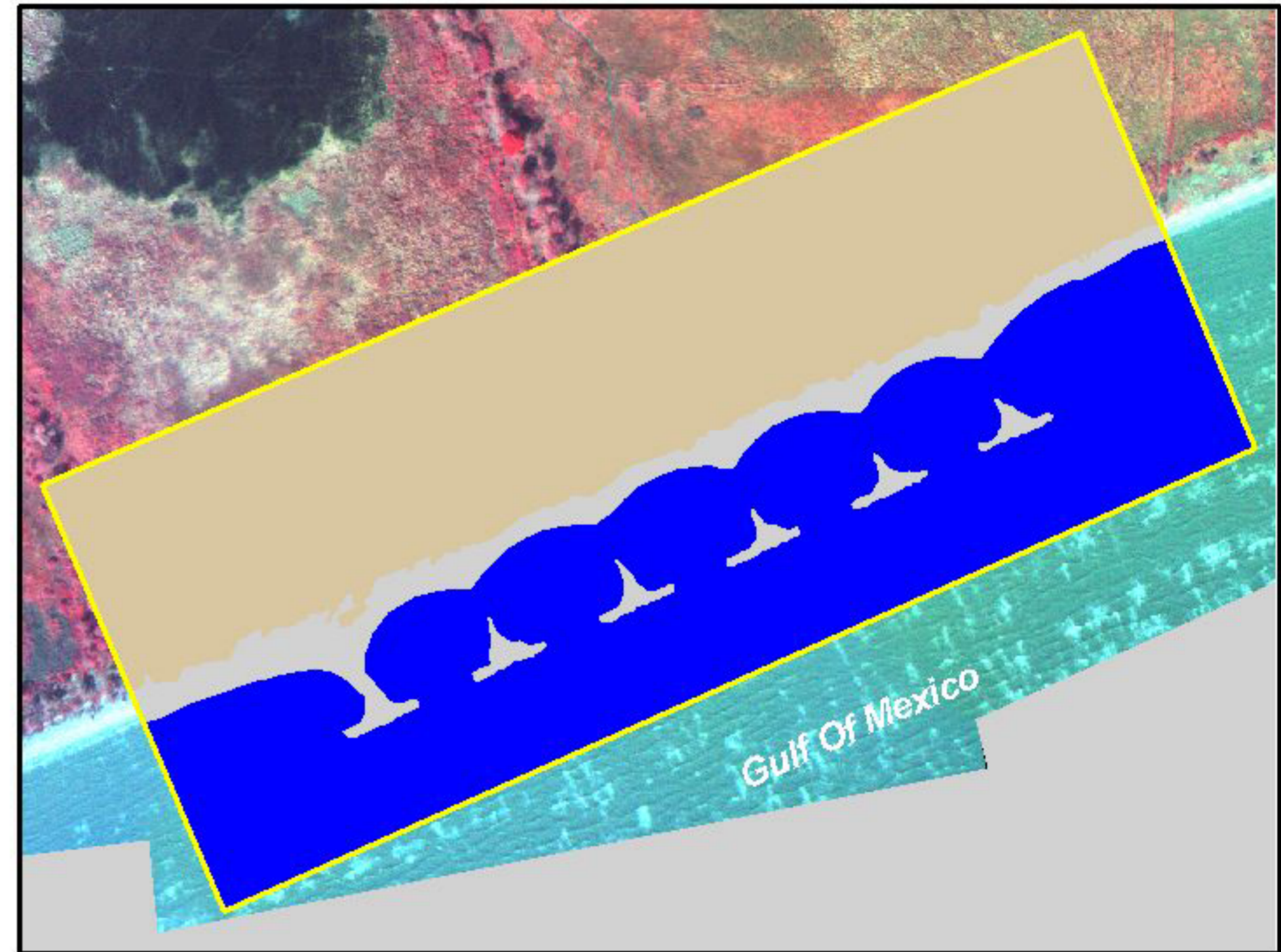
March 2001 Land-Water-Beach Classification



December 2004 Digital Image Mosaic (Postconstruction)



December 2004 Land-Water-Beach Classification



Project Description:

This demonstration project will field test the effectiveness of segmented rock breakwaters to trap and retain sediment from gulf tides in this part of the gulf shoreline, potentially stabilizing the existing shoreline on Cheniere Au Tigre. Increased sediment accretion on the Gulf of Mexico side of the chenier is expected to act as an area of defense between the higher salinity seawater and the brackish marsh that lies immediately behind the chenier.

Land-Water-Beach Classification:

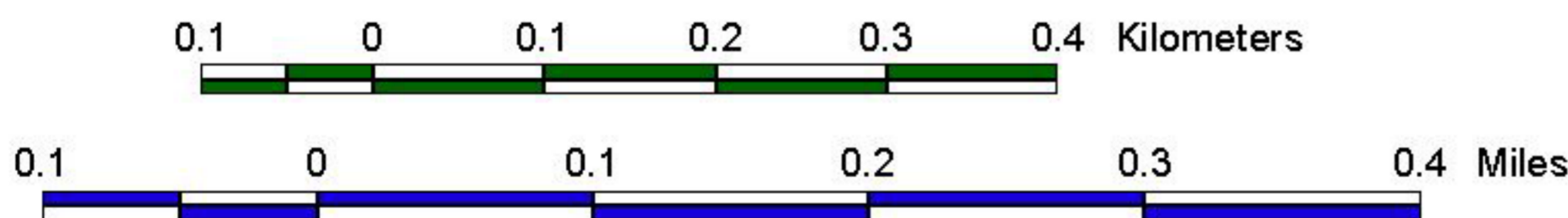
Coastal land-water-beach classification is variable based on water level. The land class includes vegetated areas. The beach class includes unvegetated shoreline and created rock breakwaters (0.5 ac) above the water line when photographed.

Project Boundary

Classification Results

Class	2001 Acres	2004 Acres
Land	29	29
Water	28	26
Beach	3	5
Total	60	60

Scale = 1:6,800



Project Location



Vermilion Parish

Prepared by:
 U.S. Department of the Interior
 U.S. Geological Survey
 National Wetlands Research Center
 Lafayette, Louisiana

Data Sources:
 The initial classification was derived from 1:6,000 scale, color infrared (CIR) photography acquired March 05, 2001. Postconstruction analysis CIR digital imagery was acquired December 20, 2004 at 8,500 ft. Ground sampling distance = 0.70 m

Map ID: USGS-NWRC 2005-16-0008

