

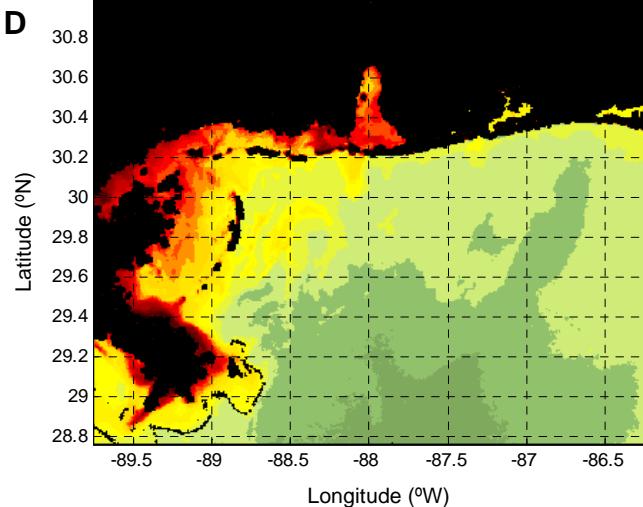
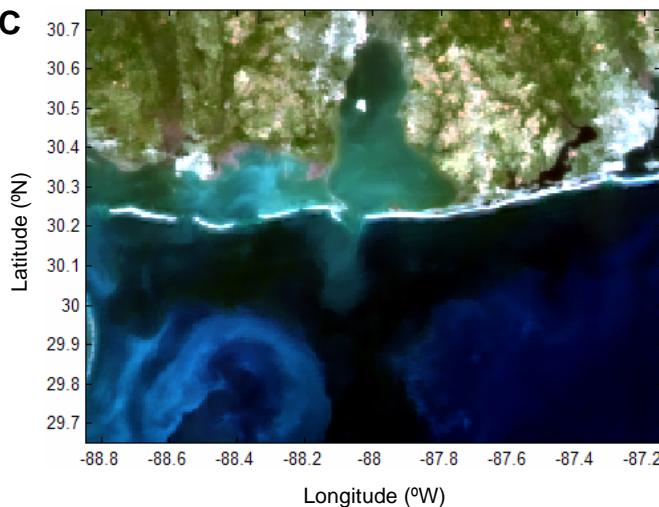
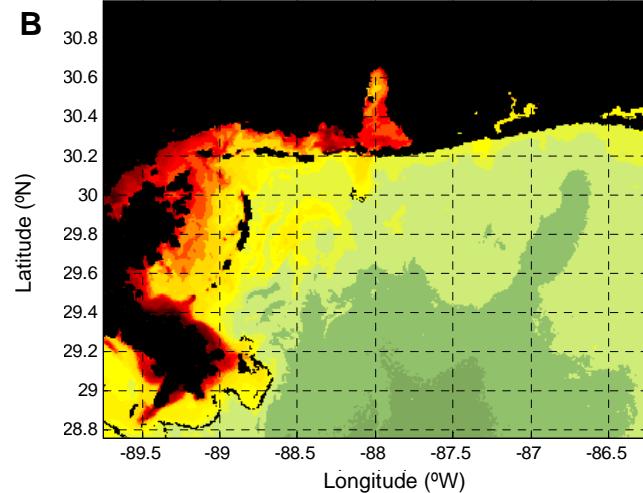
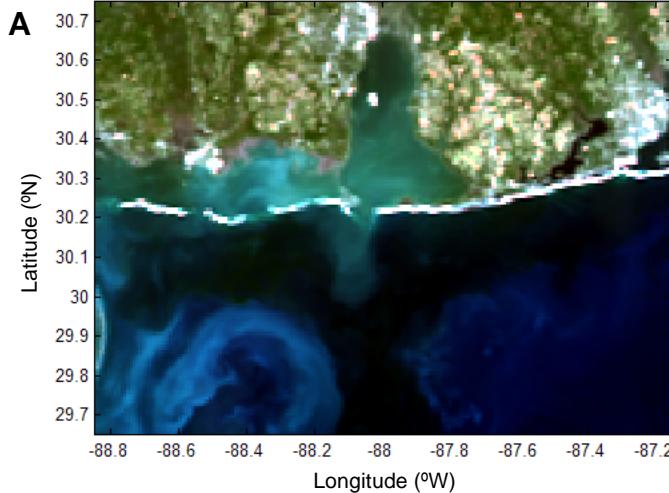


# Mobile Bay Sediment Plume Mapping Using MODIS and VIIRS



Stennis Space Center

Purpose: Identify the Mobile Bay sediment plume using MODIS and simulated VIIRS data



MODIS images (A&B, 1000m, 9 Nov 2007) are calibrated and validated using in situ data collected in collaboration with Mississippi State University and Dauphin Island Sea Lab. VIIRS simulations (C&D, 750m, 9 Nov 2007) are based on MODIS data.

Chalky, white colored waters in A&C indicate higher total suspended sediments (TSS). Higher TSS is evidenced by darker red shades in B&D. TSS concentrations in excess of 8 mg/L are found inside Mobile Bay.

This project demonstrates VIIRS maybe used to detect TSS in coastal waters.