

The Marine Pollution Surveillance Report

OVERVIEW: The Marine Pollution Surveillance Report (MPSR) is a suite of value-added products developed by the NESDIS Satellite Analysis Branch (SAB) to identify and report marine anomalies in U.S. waters believed to have resulted from accidental or intentional oil discharges. Potential oil slicks are primarily detected using multispectral and synthetic aperture radar (SAR) satellite imagery, supplemented by other surveillance data such as aerial photography. Identification is based on visual inspection, supported by ancillary datasets and automated oil detection tools. MPSR products integrate satellite imagery with key spatial data and reporting justification, allowing users to track spill extents, refine response strategies, and allocate resources more efficiently. These tools also help responders overlay critical information—including boom placements, vessel positions, and sensitive habitat areas—to optimize protection efforts.

SAMPLE MPSR

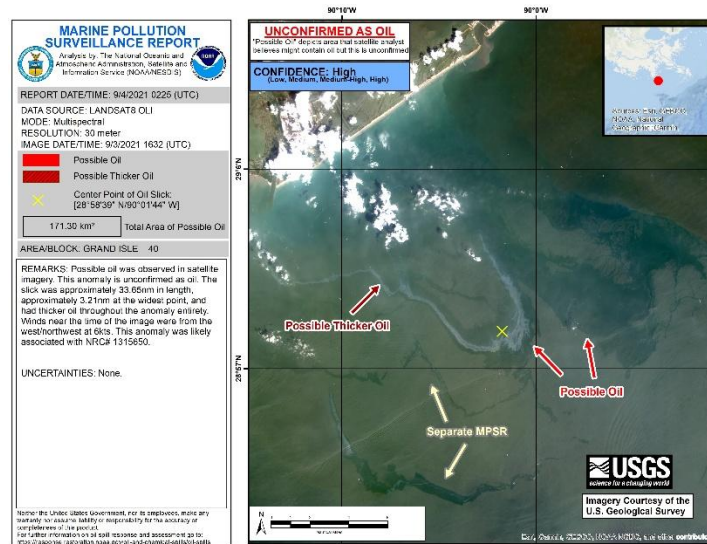


Figure 1: An MPSR showing the anomaly reported in the source imagery (above), and its complimentary map product showing an overlay of the reported anomaly (below).

