

REMOTE SENSING

The variety and availability of new remote sensing tools help responders identify and track spilled oil to optimize the use of response countermeasures and reduce environmental impacts.

MODERN INNOVATIONS INCLUDE:

- Near real-time remote sensing data processing and data transfer.
- Ability to quickly characterize oil type and relative thickness.
- Acoustic sensors on underwater remotely operated vehicles to measure oil thickness.
- Sensors for measuring oil droplet size and distribution in the water column.
- Hydrographic surveys and non-floating oil detection.
- Miniaturization of LWIR and SWIR sensors for deployment on hand-launchable aerial drones.
- Mass spectrometers on autonomous underwater gliders to detect and map hydrocarbon concentrations.



IOOSC 2024

