



A Method for Quantitative Mapping of Thick Oil Spills Using Imaging Spectroscopy

By U. S. Department of the Interior

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Paperback. 56 pages. Dimensions: 11.0in. x 8.5in. x 0.1in. In response to the Deepwater Horizon oil spill in the Gulf of Mexico, a method of nearinfrared imaging spectroscopic analysis was developed to map the locations of thick oil floating on water. Specifically, this method can be used to derive, in each image pixel, the oil-to-water ratio in oil emulsions, the sub-pixel areal fraction, and its thicknesses and volume within the limits of light penetration into the oil (up to a few millimeters). The method uses the shape of near-infrared (NIR) absorption features and the variations in the spectral continuum due to organic compounds found in oil to identify different oil chemistries, including its weathering state and thickness. This item ships from La Vergne, TN. Paperback.



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