

Abstract

[LINK TO PAPER](#)

Using GIS and Satellite Imagery to Locate Hydrocarbons

Track: Petroleum

Author(s): Jay Rauschkolb

The purpose of this project is to show it is possible to use remote sensing techniques to detect oil seeps and oil spills and use ArcView to determine the hydrocarbon locations.

Modern remote sensing software was used to process NASA's ASTER Multispectral Images.

The files were loaded with Band 3 (0.76 – 0.86 um) as Red, Band 2 (0.63 – 0.69 um) as Green and Band 1 (0.52 – 0.60 um) as Blue. ASTER's 15 m ground resolution and image enhancement techniques allowed the identification of offshore oil seeps in California and the detection of oil leaking from offshore production platforms in Azerbaijan.

Jay Rauschkolb

San Diego State University

Geological Science

6884 Deep Valley Road

San Diego , CA 92120

USA

Phone: 619) 286-5007

E-mail: jayrauschkolb@cox.net