Abstract

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 – 069 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.

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