

MONITORING OF MISRATAH COSTAL ZONE USING REMOTE SENSING AND GIS

TARIQ HAMED ALMEZUGHI*
ABDULHAKIM KHMAG**

*Swani street P.O.Box 81826 Tripoli
Libya
Phone: +218 21 4808065
Fax: +218 21 4804170
Email: tmezughi@hotmail.com

**P.O.Box 81826 Tripoli
Libya
Email: khmag@yahoo.com

KEYWORDS: Application of remote sensing and GIS on Costal Zone

Abstract:

Monitoring of Misratah costal zone Using Remote Sensing and GIS Abdulhakim E. Khmag khmag@yahoo.com Tariq H. Almezughi tmezughi@hotmail.com Biruni Remote Sensing Center Tripoli, Libya The study of the coastal zone has acquired great importance, as it influences various developmental activities on the coast, most of the cultivated part with the highest concentration of population also transportation network, biggest towns and cities, factors and ports in the costal area. Remote sensing and Geographic Information System are modern and efficient technologies for management of costal zone area. The use of multi-spectral Landsat 7 (ETM), SPOT, ERS-2, and IRS-1C Images have been recognized as important application toll for the analysis of the cost zone. The study area is located on central north part of Libya between 32 :00 to 32:30 N and 15:00 to 15:30 E, the objectives of the study was to:

- a) Map costal land forms.
- b) Monitoring Land Cover and Land use in Musrata cost area.
- c) Detected changes causes by human activity.
- d) Determine the effect of oil pollution on the Musrata cost.

This study demonstrated the utility of satellite data in monitoring and mapping the costal environment around the Musrata coast, as well as providing a better understanding of the costal area. This ultimately will help with its better management.