



## **GIS-BASED INTEGRATED ANALYSIS in the YESILIRMAK DELTA COASTLINE CHANGE, TURKEY**

Ayse Atalay Dutucu, Huseyin Turoglu, and Cercis Ikiel  
Turkey (aatalay@sakarya.edu.tr)

In this study, coastline change is investigated using remote sensing and gis-based integrated analysis in the Yesilirmak delta. The study area is located on the north of Turkey. It was formed on the Black Sea coast by the sediments carried by the Yesilirmak river.

Coastlines are sensitive to many natural and human factors. In the coastline, significant changes have been seen in recent years because of these factors especially dams on the Yesilirmak and climate change.

Keywords: Yesilirmak delta, Turkey, Coastline change, Gis