ABSTRACT

Semarang is one of the largest cities in Indonesia and is currently experiencing flooding tide. Almost every day in Semarang coastal areas experiencing tidal flooding. Seeing this phenomenon needs to be done an analysis of the rise of water level in the region and also the analysis of changes in the coastline. In this thesis conducted an analysis of the ups and downs and then get the amount of sea level rise per year using the method of least squares. From the results of this study found the amount of sea level rise per year on the coast of Semarang is 3.64 mm. Also analysis of shoreline changes using Landsat TM images and the ETM with the overlay method. Landsat image processing performed with the help of Er Mapper 7.0 software.

Key words: Semarang, Landsat images, change the coastline, tidal, Er Mapper 7.0