EVALUATION SHORELINE AND COASTAL AREA OF LAND COVER CHANGES USING BY REMOTE SENSING DATA

Case Study: Coastal region of Pasuruan, Probolinggo and Situbondo

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Abstract

Coastal region is an area that unstable and susceptible of change, because coastal region is the meeting of land and sea, where the meeting was called by coastline. From the shoreline that we can determine administration boundary of an area, it is almost certain that how importance the role of coastline, while the coastline itself is unstable and easy to get change, so the research is needed to the shoreline boundary. Pasuruan, Probolinggo and Situbondo region are one of the coastal areas that need to inspect on the shoreline and land cover, due to its own coastal territory has been used for industries, tourism and development, so as a trigger changes in shoreline and land cover along the region.

The detail of shoreline changes in period of time can be known by available maps and complete data. If the data and map was made by terrestrial measurement will take a lot of time and the cost. To overcome this problem the alternative solution is using a remote sensing data, one of the data is Landsat satellite imagery, so by using interpretation and classification process, it can be prove the
occurrence of shoreline and land cover changes in the coastal region.

The results from remote sensing process is an data analysis and map that containing information about changes both the shoreline and land cover in coastal area of Pasuruan, Probolinggo and Situbondo district.

**Keyword:** Coastal region; Satellite Imagery; Interpretation; classification.