

Ratio Temporal of Mangrove Forest on the Small Island South Sulawesi, Indonesia

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Abstract : There is no agreement for the extensive of mangrove forest in Indonesia, but invarious forums it is usually used the number of 4.25 million ha for that. At approximately 9 years ago, the extensive vast of mangrove forest in Indonesia was about 4.13 million ha but now it is only 2.49 million ha (60%). Remote sensing could play an important and effective role in the assessment and monitoring of mangrove forest cover dynamics. The aim of this study is analyze of the ratio temporal (1982, 1987, 1992, 1997, 2002, 2007, and 2012) of mangrove forest using landsat image. The study site was selected in Bauluang Island, Takalar District, South Sulawesi, Indonesia. The results of analyze show the mangrove forest is regulary increase. It is caused oceanography impact. This phenomenon is rarely found elsewhere, commonly the mangrove forest will be decrease.

Keywords: ratio temporal, mangrove, remote sensing, GIS, oceanography