MAPPING OF STUDY AND MANAGEMENT PLAN TO MANGROVE FOREST ON WAMAR ISLAND COASTAL, WOKAM ISLAND AND UJIR ISLAND, ARU ISLANDS DISTRICT, MALUKU PROVINCE

Name of Student : Laban Kailey
Registration Number : 4107 205 810
Supervisor 1 : Dr.Ir. Mukhtasor, M.Eng
Supervisor 2 : Khomsin, ST, MT

ABSTRACT

Mangrove vegetation is found on the main beach area is protected throughout the coastal regions. Mengrove forest conditions at this time until the pressure due to the utilization management and a lack of attention to aspects of sustainability. This research to know the forest area on the coastal island Wamar, Wokam Island and the island is reduced during the last fifteen years. Analysis method used is a method of Ground Truth (Transek Lines) and using Far Senses Software Er Mepper 7.0. The survey data conducted in the three (3) islands, each of 8 stations on The Wamar Island, 10 stations on the Wokam Island and 2 stations on the Ujir Island. Results of this research show that the vegetation density on the third island is the status / category infrequent / low. While the results of the analysis Citra Landsat TM 5 and 7, acquisition data at years 1993 - 2008, shows that the Wamar island has experienced shrinking area of 6.30 ha, the area of Wokam and Ujir island is about 204.55 ha and 5.2 ha. Based on the analysis of survey data and image, it is made of mangrove forest management plan that is adjusted to the strategic program of BPLH of Aru Islands district at year 2007 - 2001 and the theory of experts and opinion relating to the management of mangrove ecosystem.

Keywords: Mangrove, Ground Truth, Citra Landsat TM, the Management Plan.