ABSTRACT

Coral reef ecosystems are home for fish and other types of biota in the sea to

find food and breed. Because of the diversity of coral reefs needed in this

ecosystem, humans can make the best use of it. The classification of coral reef

ecosystems is used to assist humans in preserving or utilizing existing ecosystems.

In this classification, several conditions on coral reefs and around coral reefs are

taken to be the basis of research.

This research aims to create a coral reef ecosystem classification system that is

based on the use and performance of methods that will produce classification results

and accuracy of the K-Nearest Neighbor classification. Samples of coral reef

ecosystem data are taken from several factors that have been processed into

percentage data at a station. Factors that affect coral reef ecosystems that are used

as input to the classification so as to obtain results that are supported by ecosystems

for research, research, and expansion

Testing using the K-Nearest Neighbor method based of coral reef ecosystems

have an accuracy value that reaches 91%.

Keywords: Coral Reef, Classification, K-Nearest Neighbor

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