

Reef Fish Community of Three Artificial Reefs Models in Pasir Putih Coastal Area, East Java

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Abstract

The goal of this study was to determine the condition of reef fish communities in various models of artificial reefs in Pasir Putih coastal area, Situbondo. Data were collected on three types of artificial reefs structure are cube pyramid (KP), cube spread (KT) and Reefball (RB), the observations were made as 3 times during 3 months. The result of data collected on the artificial reef obtaining 72 species, with the highest composition in model RB contain 44 species, but the highest abundance found on model KP with 1243 individuals. All species were found, including groups that have properties associated with coral reef ecosystems. Diversity category in three locations tend to be moderate, the value ranging from 2.643 to 2.904. With by small value of dominance indexes, from 0.077 to 0.108. The fish community as interesting on the artificial reef be positively correlated with the number of holes, length, height and volume of artificial reefs.

Keywords: *Community, Reef Fish, Artificial Reef, Pasir Putih Coastal Area.*