

DISTRIBUTION STUDY OF MAKROFAUNA BENTHOS ON
MANGROVE ZONATION IN POTERAN ISLAND, MADURA,
EAST JAVA.

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Abstract

Some of the coastal areas of the Poteran island are covered by mangrove ecosystems that potentially associated with ecological valued makrofauna benthos at the mangrove vegetation. This research aims are to find out the tendency of living makrofauna benthos on the type of vegetation and mangrove tree particular substance such as root, stem, leaf, and substrate.

Makrofauna benthos sampling was done using hand collecting with quadrat wide each 1 m x 1 m. The depiction of living tendencies on the organ of mangrove benthos makrofauna is using multivariate Canoco diagram. Diagram of the multivariate visualization makes easy to understand both by ecological practice or by ordinary people.

The distribution pattern of makrofauna benthos in Poteran Island mangrove zonation affected by the density of mangrove zonation and the need differences of makrofauna benthos species or mangrove habitus. While the tendency of makrofauna benthos life directly related to their *niches* and their needs against of the mangrove plant organs.

Keywords: Makrofauna benthos, distribution, leaves , *Poisson* index, multivariate diagram.