

Abd. Rahmad Ramadhan, 12.03.411.00054. Program Studi Ilmu Kelautan Fakultas Pertanian Universitas Trunojoyo Madura. Struktur Komunitas Gastropoda Pada Jenis Mangrove Berbeda di Perairan Kabupaten Bangkalan Madura. Dibawah bimbingan Dr. Agus Romadhon, S.P, M.Si dan Insafitri, S.T, M.Sc, Ph.D.

ABSTRAK

Penelitian ini dilakukan dengan tujuan mengetahui kualitas perairan dan struktur komunitas gastropoda di ekosistem mangrove *Avicennia* dan *Rhizophora* yang berada di perairan Kabupaten Bangkalan. Penelitian ini bersifat kuantitatif dengan menggunakan metode pengumpulan data penelitian observasi dan disertai pencatatan sistematis terhadap jenis gastropoda. Parameter kualitas air yang diukur dalam penelitian ini adalah derajat keasaman (pH), suhu, salinitas, *Dissolved Oxygen* (DO), dan substrat. Pengukuran parameter kualitas air dan pencarian struktur gastropoda jenis mangrove *Avicennia* dan *Rhizophora* dilakukan pada 3 stasiun, yaitu pesisir Desa Tajungan, Desa Telang, dan Desa Socah yang dibagi berdasarkan kondisi lingkungan yang berbeda. Hasil penelitian yang diperoleh menunjukkan bahwa dari semua data yang diperoleh di lapang, kualitas perairan di Kabupaten Bangkalan berada pada kisaran optimum. Gastropoda di jenis mangrove *Rhizophora.sp* dan *Avicennia.sp* memiliki kepadatan, dominasi, dan keseragaman yang beragam. Kondisi lingkungan sangat mempengaruhi pada komunitas gastropoda.

Kata kunci : gastropoda, kualitas perairan, struktur komunitas, jenis mangrove yang berbeda.

Abd. Rahmad Ramadhan, 12.03.411.00054. Study Program of Marine Sciences, Faculty of Agriculture, University of Trunojoyo Madura. Community Structure of Gastropods in Mangrove Types Different in the Waters of Bangkalan District, Madura. Under the guidance of Dr. Agus Romadhon, S.P, M.Sc and Insafitri, S.T, M.Sc, Ph.D.

ABSTRACT

This research was conducted with the aim of knowing the quality of the waters and gastropod community structures in the *Avicennia* and *Rhizophora* mangrove ecosystems in the waters of Bangkalan Regency. This research is quantitative by using research data collection methods of observation and accompanied by systematic recording of the type of gastropods. Water quality parameters measured in this study were acidity (pH), temperature, salinity, Dissolved Oxygen (DO), and substrate. Measurement of water quality parameters and the search for *Avicennia* and *Rhizophora* mangrove gastropod structures were carried out at 3 stations, namely the coastal villages of Tajungan, Telang Village, and Socah Village which were divided based on different environmental conditions.

The results obtained showed that from all data obtained in the field, the water quality in Bangkalan Regency was in the optimum range. Gastropods in the *Rhizophora*.sp and *Avicennia*.sp mangroves have diverse densities, dominance and uniformity. Environmental conditions greatly affect the gastropod community.

Key words: gastropods, water quality, community structure, different types of mangroves.