

Taufiqurrahman Akbar. NIM 170341100039. Struktur Komunitas Gastropoda pada Jenis Mangrove *Sonneratia alba*, *Ceriops tagal*, dan *Rhizophora apiculata* Di CMC Tiga Warna, Malang. Di Bawah Bimbingan **Wahyu Andy Nugraha, ST., M.Sc., Ph.D**

ABSTRAK

CMC Tiga Warna merupakan desa yang berada di Desa Sitarjo, Kecamatan Sumbermanjing Wetan, Kabupaten Malang. Penelitian ini dilaksanakan di lokasi CMC Tiga Warna. Lokasi tersebut di jadikan lokasi penelitian karena terdapat ekosistem mangrove dan gastropoda. Penelitian ini dilakukan bertujuan untuk mengetahui struktur komunitas gastropoda pada jenis mangrove *Sonneratia alba*, *Ceriops tagal*, dan *Rhizophora apiculata*, mengetahui kerapatan mangrove, kepadatan gastropoda, hubungan kerapatan mangrove dengan kepadatan gastropoda dan parameter lingkungan di CMC Tiga Warna. Pengamatan gastropoda menggunakan transek 1m x 1m pada 5 titik pengamatan di setiap stasiun dan mangrove menggunakan transek 10m x 10m di setiap stasiun. Lokasi penelitian ditentukan menggunakan metode purposive sampling. Lokasi penelitian dibagi menjadi 3 stasiun berdasarkan jenis mangrovenya yang berbeda. Stasiun 1 jenis *Sonneratia alba* terletak di Clungup Barat, stasiun 2 jenis *Ceriops tagal* terletak di Clungup, dan stasiun 3 jenis *Rhizophora apiculata* terletak di kondang buntung. Identifikasi jenis mangrove dan gastropoda berdasarkan buku identifikasi. Analisis data menggunakan regresi linear. Parameter lingkungan yang berada di lokasi sudah terbilang bagus dikarenakan sudah sesuai dengan standar baku mutu. Berdasarkan hasil identifikasi ditemukan 7 spesies gastropoda pada ketiga stasiun. Hasil dari perhitungan struktur komunitas pada stasiun 1 didapatkan hasil (H') sedang, (E) sedang, dan (D) rendah. Struktur komunitas yang berada pada stasiun 2 didapatkan hasil (H') rendah, (E) rendah, dan (D) tinggi. Struktur komunitas yang berada pada stasiun 3 didapatkan hasil yaitu (H') rendah, (E) rendah, dan (D) tinggi.

Kata Kunci : Gastropoda, Mangrove, CMC Tiga Warna, Struktur komunitas

Taufiqurrahman Akbar. NIM 170341100039. Gastropod Community Structure in Mangrove Types *Sonneratia alba*, *Ceriops tagal*, and *Rhizophora apiculata* at Tiga Warna CMC, Malang. Under the Guidance of **Wahyu Andy Nugraha, ST., M.Sc., Ph.D**

ABSTRAK

CMC Tiga Warna is a village located in Sitarjo Village, Sumbermanjing Wetan District, Malang Regency. This research was conducted at the CMC Tiga Warna location. The location was used as a research location because there are mangrove and gastropod ecosystems. This study aims to determine the structure of the gastropod community in the mangrove species *Sonneratia alba*, *Ceriops tagal*, and *Rhizophora apiculata*, to determine mangrove density, gastropod density, the relationship between mangrove density and gastropod density and environmental parameters at CMC Tiga Warna. Observations of gastropods using a 1m x 1m transect at 5 observation points at each station and mangroves using a 10m x 10m transect at each station. The research location was determined using purposive sampling method. The research location was divided into 3 stations based on the different types of mangroves. Station 1 species *Sonneratia alba* is located in West Clungup, station 2 species *Ceriops tagal* is located in Clungup, and station 3 species *Rhizophora apiculata* is located in famous stump. Identification of mangrove and gastropod species based on identification book. Data analysis used linear regression. The environmental parameters at the location are fairly good because they are in accordance with quality standards. Based on the results of the identification found 7 species of gastropods at the three stations. The results of the calculation of the community structure at station 1 obtained (H') moderate, (E) moderate, and (D) low results. The community structure located at station 2 showed low (H'), (E) low, and (D) high results. The community structure located at station 3 shows that (H') is low, (E) is low, and (D) is high.

Keywords: Gastropods, Mangroves, Three Color CMC, Community structure