

Nurul Anisah, NRP 14.034.1.100078. Struktur Komunitas Gastropoda pada ekosistem Mangrove di Pulau Raas Kabupaten Sumenep, Di bawah bimbingan Dr. H. Agus Romadhon, Sp., M.Si

ABSTRAK

Pulau Raas merupakan salah satu pulau kecil yang termasuk dalam kabupaten Sumenep. Pulau ini memiliki banyak ekosistem laut yang masih terjaga dengan baik, dan kualitas perairan yang masih alami, jauh dari limbah industri. Salah satunya yaitu kelompok molusca dari kelas gastropoda. Gastropoda mempunyai perbedaan hidup meliputi epifauna, infauna, dan tree fauna. Penelitian ini bertujuan untuk mengetahui kualitas perairan, mengidentifikasi gastropoda dan struktur komunitas gastropoda. Pengambilan sampel dilakukan dengan menggunakan transek kuadrat 10 x 10 m sebanyak 3 stasiun dengan 3 titik, pengambilan data tiap stasiunnya. Pada masing-masing transek dilakukan pengamatan sebanyak 5x dengan ukuran 1 x 1 m pada setiap titik pengambilan data. Hasil penelitian menunjukkan bahwa nilai kualitas perairan sesuai, Jenis gastropoda di epifauna yaitu ditemukan *Nerita Undata*, *Critedeia Cingulata*, *Telescopium Telescopium*, *Telebralia sulcata*, dan *Clypeomorus Bifasciata*. Gastropoda di infauna ditemukan *Cherithium Eburneum*, *Telebralia sulcata*, dan *Clypeomorus Bifasciata*. Gastropoda di tree fauna ditemukan jenis *Telebraria sulcata*, *Littorian Scabra*, *Critedeia Quadrata* dan *Nerita Undata*. Kepadatan gastropoda epifauna berkisar antara 3,4-5,2 individu/m², jenis infauna berkisar antara 2,9-4,1 individu/m², dan jenis tree fauna berkisar antara 2,10-4,7 individu/m². Indeks keanekaragaman jenis epifauna berkisar antara 1,023-1,312 individu/m², jenis infauna berkisar antara 0,39-1,18 individu/m², dan jenis tree fauna berkisar antara 1,039-1,359 individu/m². Indeks keseragaman jenis epifauna berkisar antara 0,814-0,946 individu/m², jenis infauna berkisar antara 0,931-0,948 individu/m², dan jenis tree fauna berkisar antara 0,954-0,98 individu/m². Indeks dominansi jenis epifauna berkisar antara 0,287-0,521 individu/m², jenis infauna berkisar antara 0,382-0,552 individu/m², dan jenis tree fauna berkisar antara 0,263-0,37 individu/m².

Kata Kunci : Struktur Komunitas, Gastropoda, Mangrove, Pulau Raas

Nurul Anisah, NRP 14.034.1.100078. Community structure of Mangrove Ecosystems At large, on the island of Sumenep Regency Raas. Under The Guidance Of **Dr. H. Agus Romadhon, Sp., M.Si**

ABSTRACT

Raas Island is one of the small islands that belong to Sumenep regency. The island has many marine ecosystems that are still well preserved, and the quality of unspoiled waters, away from industrial waste. One of them is group of mollusca from gastropod class. Gastropods have different life including epifauna, infauna, and tree fauna. This study aims to determine the quality of waters, identify gastropods and community structures of gastropods. Sampling is done by using 10 x 10 m square transect 3 stations with 3 point, each station data retrieval. In each transect 5x observations were conducted with the size of 1 x 1 m at each point of data retrieval. The results showed that the value of water quality was appropriate. The types of gastropods in epifauna were NatasUndata, CritedeaCingulata, TelescopiumTelescopium, Telebralia sulcata, and Clypeomorus Bifasciata. Gastropods in the infauna were found Cherithium Eburneum, Telebraliasulcata, and Clypeomorus Bifasciata. Gastropods in the fauna tree are found in Telebraria sulcata, LittorianScabra, Criteda Quadrata and NatasUndata. The density of epifauna gastropods ranged from 3.4 to 5.2 individuals/m² infauna species ranged between 2.9-4.1 individuals / m², and the type of tree fauna ranged from 2.10-4.7 individuals / m². The epiphyte diversity index ranged from 1,023-1,312 individuals / m², infauna species ranged from 0.39-1.18 individuals / m², and tree fauna species ranged from 1,039-1,359 individuals / m². Epifauna type uniformity index ranged between 0.814-0.946 individuals / m², infauna type ranged from 0.931-0.98 individuals / m², and species fauna ranged from 0, 954-0.98 individuals / m². The dominant index of epifauna species ranged from 0.287 to 0.521 individuals / m², infauna types ranged from 0.382-0.552 individuals / m², and species fauna ranged from 0.263-0.37 individuals / m².

Keywords: Community Structure, Gastropoda, Mangrove, Raas Island