

ABSTRAK

Gastropoda merupakan biota penting bagi ekosistem mangrove karena berperan sebagai detritus yaitu merobek dan mereduksi serasah sehingga lebih cepat terurai oleh mikroorganisme. Struktur komunitas merupakan komunitas yang berupa beberapa spesies yang meliputi komposisi spesies, indeks keanekaragaman, indeks keseragaman, dan indeks dominansi. Tujuan penelitian untuk mengetahui struktur komunitas gastropoda yang terdapat pada ekosistem mangrove di pantai utara Bangkalan. pada penelitian ini menggunakan transek mangrove berukuran 10x10m² dengan 3 plot pada setiap stasiun, dan untuk gastropoda menggunakan transek berukuran 1x1m². Penelitian ini dilaksanakan pada bulan September – November 2022. Jenis gastropoda yang ditemukan diambil untuk diidentifikasi dan dibedakan jenisnya yaitu *treefauna* dan *epifauna*. Berdasarkan hasil analisis yang dilakukan di 14 stasiun penelitian di pantai utara Bangkalan ditemukan 22 spesies gastropoda yaitu *Assiminea ovata*, *Cassidula aurisfelis*, *Cassidula nucleus*, *Cerithidea cingulate*, *Cerithidea obtusa*, *Cerithideopsis alata*, *Chicoreus capunicus*, *Crassipira*, *Cypeomorus pellucida*, *Ellobium aurisjudae*, *Littoraria articulata*, *Littoraria cerinifera*, *Littoraria melanostoma*, *Littoraria scabra*, *Murex occa*, *Myoseotella*, *Nerita articulata*, *Nerita exuvia*, *Terebralia palustris*, *Telescopium*, *Terebralia sulcata*, *Turbo setosus*. Jenis epifauna jenis yang paling sering muncul adalah *Cerithidea cingulate* dan *telescopium*, sedangkan pada treefauna adalah *Cerithidea obtusa*. Indeks keanekaragaman berkisar antara 0,35-1,94, indeks keseragaman berkisar antara 0,33-0,97 dan indeks dominasi berkisar antara 0,18-0,78 dengan kategori ekosistem cukup. Hubungan kelimpahan gastropoda dengan kerapatan mangrove dengan menggunakan analisis regresi linier sederhana diperoleh nilai koefisien determinasi (R²) sebesar 0,0496 dan nilai korelasi (r) sebesar 0,2227 yang berarti berkorelasi positif dengan kategori rendah. Struktur komunitas gastropoda yang diteliti termasuk dalam kategori sedang.

Kata Kunci : Struktur Komunitas, Gastropoda, Ekosistem Mangrove di Bangkalan

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ABSTRACT

Gastropods are an important biota for the mangrove ecosystem because they act as detritus, tearing and reducing litter so that it is decomposed more quickly by microorganisms. Community structure is a community consisting of several species which includes species composition, diversity index, uniformity index, and dominance index. The research objective was to determine the structure of the gastropod community found in the mangrove ecosystem on the north coast of Bangkalan. in this study using a 10x10m² mangrove transect with 3 plots at each station, and for gastropods using a 1x1m² transect. This research was conducted in September – November 2022. The types of gastropods found were taken to be identified and differentiated, namely treefauna and epifauna. Based on the results of analyzes conducted at 14 research stations on the north coast of Bangkalan, 22 species of gastropods were found, namely *Assiminea ovata*, *Cassidula aurisfelis*, *Cassidula nucleus*, *Cerithidea cingulate*, *Cerithidea obtusa*, *Cerithideopsis alata*, *Chicoreus capunicus*, *Crassipira*, *Cypeomorus pellucida*, *Ellobium aurisjudae*, *Littoraria articulata*, *Littoraria cerinifera*, *Littoraria melanostoma*, *Littoraria scabra*, *Murex occa*, *Myoseotella*, *Nerita articulata*, *Nerita exuvia*, *Telebralia palustris*, *Telescopium*, *Terebralia sulcata*, *Turbo setosus*. in epifauna the species that appear most often are *Cerithidea cingulate* and *Telescopium*, while in treefauna it is *Cerithidea obtusa*. The diversity index ranged from 0.35-1.94, the uniformity index ranged from 0.33-0.97 and the dominance index ranged from 0.18-0.78 with the moderate ecosystem category. The relationship between gastropod abundance and mangrove density using simple linear regression analysis obtained a coefficient of determination (R²) of 0.0496 and a coefficient value (r) of 0.2227, which means that it has a positive correlation with the low correlation category. The structure of the gastropod community studied was included in the medium category.

Keywords : *Community struktur, Gastropods, Mangrove Ecosystem at Bangkalan*