

VENNY ROHMA INDRIYANTI, NPM. 18.03.5.1.1.00006. Hubungan Kerapatan Mangrove Dengan Kelimpahan Gastropoda di Desa Buluh Kecamatan Socah Kabupaten Bangkalan Madura. Dibawah Bimbingan **Dr. Firman Farid Muhsoni, S.Pi., M.Sc.**

ABSTRAK

Hutan Mangrove merupakan salah satu ekosistem alam yang memberikan kontribusi besar terhadap organisme perairan sebagai sumber makanan salah satunya yakni gastropoda. Tujuan dari penelitian ini adalah untuk mengetahui kerapatan mangrove, kelimpahan gastropoda dan korelasi antara kerapatan mangrove dengan kelimpahan gastropoda di Desa Buluh, menggunakan metode *stratified random sampling* atau pengambilan sampel secara acak. Analisis hubungan antara kerapatan mangrove dengan kelimpahan gastropoda menggunakan analisis korelasi regresi linier. Penelitian ini dilakukan pada bulan Juni sampai Juli 2022 di Desa Buluh Kecamatan Socah Kabupaten Bangkalan Madura. Lokasi pengamatan terdiri dari 8 stasiun dan pada masing-masing stasiun terdiri dari 3 plot. Pengambilan sampel pada gastropoda dalam 1 plot dilakukan pengulangan sebanyak 4 kali. Pengumpulan data diperoleh dari data skunder dan data lapang. Jenis mangrove yang didapat yaitu *Aegiceras Floridum*, *Avicennia Alba*, *Avicennia Marina*, *Avicennia Officinalis*, *Rhizophora Apiculata*, *Rhizophora Mucronata*, dan *Sonneratia Alba*. Kerapatan mangrove di Desa Buluh dari ke 8 stasiun termasuk dalam kriteria sedang karena memiliki nilai ≤ 1500 ind/h. Jenis Gastropoda yang didapat yaitu *Cerithidea cingulate*, *Cerithidea quadrata*, *Cerithidea obtusa*, *Cassindula aurisfelis*, *Cassindula nucleus*, *Telescopium-telescopium*, dan *Littoraria melanostoma*. Nilai kelimpahan individu tertinggi pada stasiun 2 yaitu 81667 ind/ha dan nilai kelimpahan relatif yaitu 100,00 ind/ha. Nilai korelasi kerapatan mangrove dan kelimpahan gastropoda yaitu 79% yang artinya antar dua variabel memiliki kategori sangat lemah dan nilai *R.Square* sebesar 0,6213.

Kata Kunci : Kerapatan Mangrove, Gastropoda, Korelasi

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ABSTRACT

Mangrove forest is one of the natural ecosystems that makes a major contribution to aquatic organisms as a food source, one of which is gastropods. The purpose of this study was to determine mangrove density, gastropod abundance and the correlation between mangrove density and gastropod abundance in Buluh Village, using stratified random sampling method. Analysis of the relationship between mangrove density and gastropod abundance used linear regression correlation analysis. This research was conducted from June to July 2022 in Buluh Village, Socah District, Bangkalan Regency, Madura. The observation location consisted of 8 stations and at each station consisted of 3 plots. Sampling on gastropods in 1 plot was repeated 4 times. Data collection was obtained from secondary data and field data. The types of mangroves obtained were *Aegiceras Floridum*, *Avicennia Alba*, *Avicennia Marina*, *Avicennia Officinalis*, *Rhizophora Apiculata*, *Rhizophora Mucronata*, and *Sonneratia Alba*. Mangrove density in Buluh Village from the 8 stations is included in the medium criteria because it has a value of 1500 ind/h. The types of gastropods obtained were *Cerithidea cingulate*, *Cerithidea quadrata*, *Cerithidea obtusa*, *Cassindula aurisfelis*, *Cassindula nucleus*, *Telescopium-telescopium*, and *Littoraria melanostoma*. The highest individual abundance value at station 2 was 81667 ind/ha and the relative abundance value was 100.00 ind/ha. The correlation value of mangrove density and gastropod abundance is 79%, which means that between the two variables has a very weak category and the R.Square value is 0.6213.

Keywords : Mangrove Density, Gastropods, Correlation