

**FARIDHATUL MAZIDAH** NPM. 17.03.4.1.1.00042. Karakter Morfometrik dan Kelimpahan Mimi Mangrove (*Carcinoscorpius rotundicauda*, Latreille 1802) Di Desa Polagan, Kabupaten Pamekasan. Dibawah bimbingan **Dr. Apri Arisandi, S.Pi., Msi**

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### **Abstrak**

Karakteristik lingkungan perairan di Desa Polagan, Kabupaten Pamekasan yang lokasinya berdekatan dengan ekosistem mangrove dapat mempengaruhi kehidupan mimi mangrove (*Carcinoscorpius rotundicauda*). Penelitian ini bertujuan untuk mengetahui karakter morfometrik *Carcinoscorpius rotundicauda* dan kelimpahannya yang tersebar di Desa Polagan, Kabupaten Pamekasan. Pengambilan data mimi dilakukan selama 3 minggu, dimana setiap 2 hari sekali mengikuti aktivitas nelayan mencari rajungan yang dilakukan dengan cara membentangkan jaring ke perairan yang terdapat rajungan dan mimi. Merujuk pada pengamatan yang dilakukan oleh Meilana *et al.* (2016), pengukuran morfometrik mimi dapat dilakukan dengan menggunakan jangka sorong dan meteran gulung, kemudian menghitung jumlah mimi. Analisa hubungan panjang dan berat *Carcinoscorpius rotundicauda* menggunakan regresi linear. *Carcinoscorpius rotundicauda* yang tertangkap diperoleh jumlah total sebanyak 10 individu. Berdasarkan hasil pengamatan yang dilakukan di Desa Polagan yaitu *Carcinoscorpius rotundicauda* betina mempunyai ukuran morfometrik yang lebih besar dibandingkan *Carcinoscorpius rotundicauda* jantan. Hasil pengukuran panjang dan berat *Carcinoscorpius rotundicauda* berdasarkan nilai  $b$  termasuk dalam alometrik positif sedangkan hasil pengukuran panjang dan berat *Carcinoscorpius rotundicauda* berdasarkan nilai koefisien determinasi tidak bisa digunakan untuk menginterpretasikan hubungan panjang dan berat *Carcinoscorpius rotundicauda* di Desa Polagan. Karakteristik parameter lingkungan perairan di Desa Polagan, Kabupaten Pamekasan tergolong layak (baik) untuk menunjang masa pertumbuhan mimi dalam fase juvenil hingga fase dewasa karena kondisi perairan di lokasi tersebut memiliki kondisi perairan yang stabil. Fraksi sedimen di Desa Polagan, Kabupaten Pamekasan didominasi tekstur padat (pasir), sehingga *Carcinoscorpius rotundicauda* berada pada jumlah yang tergolong sedikit, karena *Carcinoscorpius rotundicauda* lebih menyukai habitat dengan substrat sedimen lanau (berlumpur).

**Kata Kunci** : Morfometrik, Kelimpahan, Mimi Mangrove (*Carcinoscorpius rotundicauda*)

**FARIDHATUL MAZIDAH** NPM. 17.03.4.1.1.00042. Morphometric Character and Abundance of Mimi Mangrove (*Carcinoscorpius rotundicauda*, Latreille 1802) In Polagan Village, Pamekasan District. Under the guidance of **Dr. Apri Arisandi, S.Pi., Msi**

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### **Abstract**

Characteristics of the aquatic environment in Polagan Village, Pamekasan District which is located close to the mangrove ecosystem can affect the life of mimi mangrove (*Carcinoscorpius rotundicauda*). This study aims to determine the morphometric character of *Carcinoscorpius rotundicauda* and its abundance in Polagan Village, Pamekasan District. Mimi data retrieval was carried out for 3 weeks, where every 2 days following the activities of fishermen looking for crabs which was carried out by spreading nets into the waters that contained crabs and mimi. Referring to the observations made by Meilana *et al.* (2016), mimi morphometric measurements can be carried out using a caliper and roll meter, then counting the number of mimi. Analysis of the relationship between length and weight of *Carcinoscorpius rotundicauda* using linear regression. *Carcinoscorpius rotundicauda* caught in total were 10 individuals. Based on observations made in Polagan Village, female *Carcinoscorpius rotundicauda* has a larger morphometric size than male *Carcinoscorpius rotundicauda*. The results of measuring the length and weight of *Carcinoscorpius rotundicauda* based on the value of  $b$  are included in the positive allometric while the results of measuring the length and weight of *Carcinoscorpius rotundicauda* based on the value of the coefficient of determination cannot be used to interpret the relationship between length and weight of *Carcinoscorpius rotundicauda* in Polagan Village. Characteristics of aquatic environmental parameters in Polagan Village, Pamekasan District are classified as feasible (good) to support the growth of mimi in the juvenile phase to the adult phase because the water conditions in that location have stable water conditions. The sediment fraction in Polagan Village, Pamekasan District is dominated by dense textures (sand), so that *Carcinoscorpius rotundicauda* is in relatively small number, because *Carcinoscorpius rotundicauda* prefers habitats with silt (muddy) sedimentary substrates.

**Keywords:** Morphometric, Abundance, Mimi Mangrove (*Carcinoscorpius rotundicauda*)