

ABSTRAK

Haryanto Mursalin. NPM 05181811065. Analisis Hubungan Tutupan Mangrove dengan Kepadatan Gastropoda. Kelurahan Figur Kecamatan Moti Kota Ternate. Dibimbing oleh Ikbil Marus S.P., M.Si dan Firdaut Ismail S.Pi., M.Si.

Ekosistem hutan mangrove merupakan ekosistem yang memiliki produktivitas tinggi jika dibandingkan ekosistem lainnya, Kanopi atau tutupan mangrove sering disebut juga dengan istilah tajuk pohon adalah suatu kondisi yang terbentuk oleh cabang – cabang dan daun pohon saling tumpang tindih. Peran kanopi mangrove dapat mempengaruhi proses fotosintesis adalah dari bentuk dan kerapatan tajuk, Penelitian ini bertujuan untuk menganalisis hubungan tutupan dengan kepadatan gastropoda, kepadatan, keanekaragaman, dominansi, hubungan tutupan dan kepadatan, Kelurahan Figur. Pengambilan data dengan menggunakan metode *line transect kuadran*, teknik pengambilan tutupan tajuk mangrove diukur menggunakan metode *hemispherical photography* menggunakan kamera depan Handphone OPPO Reno 4 dengan resolusi kamera 48 megapixel pada suatu titik pengambilan foto. Hasil penelitian menunjukkan bahwa hubungan tutupan kanopi mangrove dan kepadatan Gastropoda Desa Figur, Kecamatan Moti Kota Ternate memiliki nilai hubungan sebesar 0,946 hal ini dikategorikan sangat kuat ini termasuk dalam kategori padat.

Kata kunci: tutupan tajuk mangrove, *hemispherical photo*, pulau kecil, asosiasi vegetasi dan hewan mangrove.

ABSTRAK

Haryanto Mursalin. NPM 05181811065. *Analysis of the relationship between mangrove cover and gastropod density at Figur Village, Moti Sub-district, Ternate City*. Supervised by Ikbāl Marus S.P., M.Si and Firdaut Ismail S.Pi., M.Si.

The mangrove forest ecosystem is an ecosystem that has high productivity when compared to other ecosystems. The mangrove canopy or cover, often referred to as tree canopy, is a condition formed by overlapping tree branches and leaves. The role of the mangrove canopy in influencing the photosynthesis process is the shape and density of the canopy. This research aims to analyze the relationship between cover and gastropod density, density, diversity, dominance, relationship between cover and density, Figur Village. Data was collected using the line transect quadrat method. The technique for collecting mangrove canopy cover was measured using the hemispherical photography method using the front camera of the OPPO Reno 4 cellphone with a camera resolution of 48 megapixels at a point where the photo was taken. The results of the research showed that the relationship between mangrove canopy cover and gastropod density at Figur Village, Moti District, Ternate City had a relationship value of 0.946, which was categorized as very strong relationship, and it is included in the dense category.

Key words: mangrove canopy cover, hemispherical photo, small island, mangrove vegetation and animal associations.