

IHSAN ADITYA NRP. 15.03.4.11.00034. Struktur Komunitas Gastropoda pada Ekosistem Mangrove Di Pancer Cengkong Kabupaten Trenggalek. Dibawah bimbingan Wahyu Andy Nugroho, ST.,M. Sc, P.hd

Abstrak

Struktur komunitas merupakan gambaran mengenai kondisi suatu komunitas pada suatu tempat mencakup, komposisi jenis, kepadatan jenis, dominasi jenis, keanekaragaman jenis, dan keseragaman jenis. Ekosistem mangrove Cengkong merupakan kawasan konservasi yang dijadikan sebagai tempat ekowisata. Penelitian ini bertujuan untuk mengetahui jenis Gastropoda yang terdapat di ekosistem mangrove Cengkong, Mengetahui struktur komunitas Gastropoda yang terdapat di ekosistem mangrove Pancer Cengkong dan Hubungan kepadatan mangrove dengan kepadatan Gastropoda di ekosistem mangrove Cengkong. Penelitian ini berlokasi di Teluk Prigi dengan menggunakan tiga stasiun yaitu Stasiun 1 (kepadatan mangrove kategori rendah), Stasiun 2 (kepadatan mangrove kategori sedang), dan Stasiun 3 (kepadatan mangrove kategori tinggi), dilaksanakan selama 3 hari mulai 22 November – 25 November 2018. Pengambilan data Gastropoda menggunakan metode transek kuadrat $1 \times 1 \text{ m}^2$. Setiap jenis Gastropoda yang berbeda diambil sampel untuk kepentingan identifikasi jenis. Pengambilan data kualitas perairan dilakukan secara insitu di setiap titik lokasi penelitian dan pengambilan sampel sedimen untuk selanjutnya dilakukan analisa tipe sedimen. Berdasarkan hasil analisis yang telah dilakukan pada tiga stasiun penelitian di ekosistem mangrove Cengkong secara keseluruhan ditemukan 7 spesies Gastropoda dan 7 spesies mangrove. Hasil analisis regresi polinomial memiliki hubungan sedang antara kepadatan mangrove dengan kepadatan Gastropoda.

Kata Kunci : Struktur Komunitas, Gastropoda, Ekosistem Mangrove Cengkong

Abstract

Community structure is a description of the condition of a community in a place cover, species composition, density type of dominant species, species diversity, and uniformity of type. Cengkong mangrove forest is a conservation area which is used as a place of ecotourism. This study aims to determine the types of gastropods are found in ecosystems mangrove Cengkong, Knowing gastropods contained community structure in ecosystems mangrove Pancer Cengkong and mangrove density relationship with the density of gastropods in Cengkong mangrove ecosystem. This research is located in the Gulf of Prigi using three stations are Station 1 (density mangrove lower category), Station 2 (density mangrove medium category), and Station 3 (density mangrove high category), held for 3 days from 22 November to 25 November 2018. Data collection Gastropod using transect method squares 1×1 m². Each different type of gastropods be sampled for the sake of identification types. Data retrieval is done in-situ water quality at each point of the test site and sediment sampling for further analysis of sediment types. Based on the analysis that has been carried out at three research stations in the mangrove ecosystem overall Cengkong found 7 species of gastropods and 7 species of mangroves. Polynomial regression analysis has a moderate relationship between the density of mangrove gastropods density. Each different type of gastropods be sampled for the sake of identification types. Data retrieval is done in-situ water quality at each point of the test site and sediment sampling for further analysis of sediment types. Based on the analysis that has been carried out at three research stations in the mangrove ecosystem overall Cengkong found 7 species of gastropods and 7 species of mangroves. Polynomial regression analysis has a moderate relationship between the density of mangrove gastropods density. Each different type of gastropods be sampled for the sake of identification types. Data retrieval is done in-situ water quality at each point of the test site and sediment sampling for further analysis of sediment types. Based on the analysis that has been carried out at three research stations in the mangrove ecosystem overall Cengkong found 7 species of gastropods and 7 species of mangroves. Polynomial regression analysis has a moderate relationship between the density of mangrove gastropods density. Based on the analysis that has been carried out at three research stations in the mangrove ecosystem overall Cengkong found 7 species of gastropods and 7 species of mangroves. Polynomial regression analysis has a moderate relationship between the density of mangrove gastropods density.

Keywords : Community Structure, gastropods, mangrove ecosystem Cengkong