

SANNISA AULIA LUTHFI. NIM 19.03.4.1.1.00059. Struktur Komunitas Ekosistem Mangrove Di Pesisir Utara Bangkalan, Jawa Timur. Dibawah bimbingan **Wahyu Andy Nugraha, ST., M.Sc., Ph.D**

ABSTRAK

Ekosistem mangrove berperan penting dalam mendukung kelestarian sumberdaya pesisir dan menyediakan jasa ekosistem bagi masyarakat pesisir dan laut di wilayah pesisir. Mengingat pentingnya peran mangrove, penelitian ini dilakukan untuk mengetahui komposisi jenis mangrove dan kondisi kesehatan hutan mangrove berdasarkan struktur komunitas, keanekaragaman jenis, dan tutupan tajuk mangrove di pesisir pantai utara Kabupaten Bangkalan. Belum tersedianya literatur pendukung yang menilai kesehatan mangrove di sepanjang pantai utara Bangkalan, maka penelitian ini dilakukan di lokasi tersebut. Penilaian kondisi ekosistem mangrove dilakukan dengan menganalisis indeks nilai penting, meliputi frekuensi, dominansi, dan kerapatan pada mangrove, dengan menggunakan metode sampling. Metode pengambilan sampel spesies mangrove menggunakan transek kuadrat berukuran 10 m x 10 m dengan tiga transek di setiap empat belas stasiun. Tutupan kanopi diambil dengan menggunakan metode Hemispherical Photography. Hasil penelitian menunjukkan bahwa komposisi jenis mangrove di pantai utara Kabupaten Bangkalan terdiri dari 17 jenis dan 10 marga. Hasil penelitian menunjukkan bahwa ekosistem mangrove di Pantai Utara Kabupaten Bangkalan dalam kondisi baik dan memiliki kerentanan yang rendah terhadap degradasi.

Kata kunci: struktur komunitas, kondisi mangrove, indeks nilai penting, keanekaragaman tertinggi, persentase tutupan tajuk, Pantai Utara Bangkalan

SANNISA AULIA LUTHFI. NIM 19.03.4.1.1.00059. Community Structure of Mangrove Ecosystem on the North Coast of Bangkalan, East Java. Under the guidance of **Wahyu Andy Nugraha, ST., M.Sc., Ph.D**

ABSTRACT

Mangrove ecosystems play an important role in supporting the preservation of coastal resources and providing ecosystem services for coastal and marine communities in coastal areas. Given the role of mangroves, this study was conducted to know the composition of mangrove species and the health condition of mangrove forests based on community structure, species diversity, and mangrove canopy cover on the north coast Bangkalan Regency. The unavailability of supporting literature assessing the health of mangroves along the north coast of Bangkalan, therefore this study was conducted at that location. Assessment of the condition of the mangrove ecosystem is carried out by analyzing the critical value index, including frequency, dominance, and density in mangroves, using the sampling method. The mangrove species sampling method used a 10m x 10m squared transect with three transects at each of the fourteen stations. The canopy cover was taken using the Hemispherical Photography method. The results showed that the composition of mangrove species on the north coast of Bangkalan Regency consisted of 17 species and ten genera. The result showed that the mangrove ecosystem on the North Coast of Bangkalan Regency is in good condition and has a low vulnerability to degradation.

Keywords: community structure, mangrove condition, important value index, highest diversity, percentage of canopy cover, North Coast of Bangkalan