

KONDISI TERUMBU KARANG DI PULAU CEMARA BESAR TAMAN NASIONAL KARIMUNJAWA KABUPATEN JEPARA

Abstrak

Ekosistem terumbu karang adalah salah satu ekosistem laut yang memiliki manfaat penting dan menjadi sumber kehidupan bagi berbagai biota laut. Penelitian ini bertujuan untuk mengukur keanekaragaman terumbu karang dan menyajikan informasi mengenai kondisi terumbu karang di Pulau Cemara Besar, Taman Nasional Karimunjawa, Kabupaten Jepara. Pengambilan data dilakukan bulan September 2019 pada 3 stasiun dengan dua kedalaman (3m dan 8m). Metode penelitian yang digunakan adalah *Underwater Photo Transect* (UPT). Data dianalisis menggunakan program *Coral Point Count with Excel Extension* (CPCe). Data karang dianalisis untuk mengetahui persentase tutupan, indeks keanekaragaman, kemerataan, dan dominansi. Spesies yang ditemukan pada lokasi penelitian sebanyak 141 spesies. Spesies yang paling banyak ditemukan adalah *Porites lutea* dengan tipe pertumbuhan karang *Coral Massive*. Tutupan terumbu karang hidup sebesar 25,5-59,2%. Nilai indeks keanekaragaman berkisar antara 2,76-3,38, sedangkan indeks kemerataan berkisar 0,69-0,85, dan indeks dominansi berkisar antara 0,05-0,12.

Kata kunci: Cemara Besar, karang, Karimunjawa, keanekaragaman, tutupan

CORAL REEF CONDITION IN CEMARA BESAR ISLAND KARIMUNJAWA NATIONAL PARK JEPARA REGENCY

Abstract

Coral reef ecosystems are marine ecosystems that have significant benefits and have a source of life for marine biotics. This study aimed to measure the diversity of coral reefs and to present information about the condition of coral reefs in Cemara Besar Island, Karimunjawa National Park, Jepara Regency. The data was collected in September 2019 at three stations with two depths (3m and 8m). The method that used in this research was UPT (Underwater Photo Transect). Coral Point Count analyzed the data with Excel Extension (CPCe). The analyzed coral data were used to determine the percentage of cover, diversity index, evenness, and dominance. The number of species found in this research was 141 species. The most common species that found was *Porites lutea* with massive life form. The percentage of healthy coral coverage is between 25.5-59.2%. The value of diversity index was 2.76-3.38, while evenness index was 0.69 to 0.85, and the dominance index ranged from 0.05 to 0.12.

Keywords: biodiversity, Cemara Besar, coral, coverage, Karimunjawa