KONDISI TERUMBU KARANG DI PERAIRAN PULAU LENTEA TAMAN NASIONAL WAKATOBI

Abstrak

Penelitian tentang kondisi terumbu karang di Perairan Pulau Lentea Taman Nasional Wakatobi belum pernah dilakukan sebelumnya. Oleh karena itu, penelitian ini bertujuan untuk mengetahui kondisi terumbu karang di Perairan Pulau Lentea Taman Nasional Wakatobi, Kabupaten Wakatobi. Pengambilan data dilakukan pada bulan Oktober 2019 di 3 stasiun dengan dua kedalaman (3m dan 8m). Metode penelitian yang digunakan adalah *Underwater Photo Transect* (UPT) yang mengahsilkan 600 foto pada 6 transek. Data tutupan terumbu karang dianalisis dengan program *Coral Point Count with Excel Extension* (CPCe) yang menghasilkan data persentase tutupan, indeks keanekaragaman, kemerataan, dan dominansi. Spesies karang yang ditemukan pada lokasi penelitian sebanyak 168 spesies. Spesies karang yang paling banyak ditemukan adalah *Montipora caliculata* dengan tipe pertumbuhan karang *Coral Encrusting*. Genera karang di Pulau Lentea sebanyak 44 genus dengan genus paling banyak adalah Genus Acropora dan Montipora. Stasiun 3 kedalaman 3m merupakan stasiun dengan jumlah spesies dan genera tertinggi. Kondisi terumbu karang di Pulau Lentea secara keseluruhan dalam keadaan sedang dengan persentase tutupan karang hidup berkisar 25,5-59,2%. Nilai indeks keanekaragaman berkisar antara 2,75-3,83, sedangkan indeks kemerataan berkisar antara 0,75-0,88, dan indeks dominansi berkisar antara 0,03-0,11.

Kata kunci: karang, keanekaragaman, kondisi, Lentea, dan tutupan

CORAL REEFS CONDITION IN LENTEA ISLAND WATERS
WAKATOBI NATIONAL PARK

Abtract

Research on the coral reefs condition in Lentea Island Waters, Wakatobi National Park has never been done before. Therefore, this research goal is to determine the coral reefs condition in Lentea Island Waters, Wakatobi National Park, Wakatobi Regency. The data was collected in September 2019 at three stations in two depths (3m and 8m). The method used in this research was Underwater Photo Transect (UPT) which produced 600 photos on 6 transects. The coral reef cover data was analyzed using Coral Point Count with Excel extentions (CPCe) and presented as cover percentage, diversity, evenness, and dominance index. Coral species found in this research were 168 species. The most common species was *Montipora caliculata* with an encrusting life form. The most commonly found coral species is Montipora caliculata with Coral Encrusting coral growth type. Coral genera on Lentea Island were 44 genera with the most genera being the genus Acropora and Montipora. Station 3 at 3m depth is the station with the highest number of species and genera of corals. Coral reefs condition in Lentea Island as a general was in moderate condition with an average percentage of healthy coral cover (HC) of 25.5-59.2%. The value of diversity index ranged from 2.75-3.83, while evenness index ranged from 0.75 to 0.88, and the dominance index ranged from 0.03 to 0.11.

Keywords: condition, coral, coverage, diversity, Lentea