# KONDISI TERUMBU KARANG DI ZONA PEMANFAATAN UMUM UNTUK WISATA DAN PENANGKAPAN IKAN TAMAN NASIONAL WAKATOBI

## Intisari

Terumbu karang merupakan ekosistem laut yang subur dan mempunyai keanekaragaman yang tinggi sehingga banyak menghasilkan manfaat bagi kehidupan laut. Penelitian ini bertujuan untuk mengetahui kondisi terumbu karang di zona pemanfaatan wisata dan penangkapan ikan, di Taman Nasional Wakatobi, Kabupaten Wakatobi dengan kedalaman 3 m dan 8 m. Penelitian dilaksanakan pada bulan Agustus 2019. Penelitian ini menggunakan metode *Underwater Photo Transect* (UPT) yaitu pengambilan data kondisi terumbu karang dengan cara pengambilan gambar karang yang diambil pada setiap meter dalam transek sepanjang 50 m. Spesies karang diidentifikasi menggunakan program *Coral Point Count with Excel Extention* (CPCe) yang menghasilkan kategori spesies di setiap foto. Persentase tutupan karang merupakan perbandingan antara jumlah kategori titik sampel terhadap seluruh kategori titik pada seluruh foto. Indeks keankearagaman, kemerataan, dan dominansi didapatkan dari perhitungan hasil data identifikasi menggunakan *CPCe*. Tutupan dasar perairan yang dominan yaitu karang hidup, *soft coral, dead coral with algae,* dan *rubble.* Spesies yang ditemukan pada Perairan ini sebanyak 134 spesies. Kondisi terumbu karang di zona pemanfaatan wisata dan penangkapan ikan yaitu sedang dengan persentase tutupan sebesar 48,24%. Indeks Shannon-Wiener (H') berkisar antara 2,61-3,60 dengan nilai rata-rata sebesar 2,88. Indeks kemerataan (E) berkisar 0,69-0,83 dengan rata-rata 0,74. Indeks dominansi (D) berkisar antara 0,05-0,15 dengan rata-rata 0,09.

Kata kunci : karang, tutupan, Wakatobi, zona

CORAL REEFS CONDITION IN THE UTILIZATION ZONE FOR TOURISM AND FISH CATCHING OF WAKATOBI NATIONAL PARK

# Abstract

The coral reef is an underwater ecosystem that is highly fertile and resulted in diverse a lot of benefits for the ocean. This research aims to investigate the condition of coral reef in the utilization zone for the tourism and fish catching in Wakatobi National Park at depth 3 m and 8 m. The research was conducted in August 2019 and done by using the Underwater Photo Transect (UPT) method, which takes pictures of the coral reef every meter of transect through the length of 50 m. Species were analyzed based on the images which were taken during the research, making the identification afterward by using Coral Point Count with Excel Extention (CPCe) program that created species category every picture. The percentage result of coral's cover was obtained based on the amount of sample category towards all over the type of the whole picture. Index of the diversity, evenness, and the index of domination got from the result of counting CPCe Program. The cover of the seabed was dominated by live coral, soft coral, dead coral with algae, and rubble. There were 134 species found in the tourism and fishing zone. The condition of coral reef in tourism and fishing zone was on the intermediate state in the amount of 48.24 %. The Shannon-Wiener Index's (H') ranged between 2.61-3.60 with an average value of 2.88. The Index of Evenness's (E) ranged between 0.69-0.83 with an average value of 0.74. The Index of Domination's (D) reached between 0.05-0.15, with an average amount of 0.09.

Keywords: Coral, coverage, Wakatobi, zone