

ABSTRAK

STATUS KESUBURAN DI PERAIRAN TAMAN NASIONAL WAY KAMBAS, LAMPUNG TIMUR, LAMPUNG

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Perairan pesisir Lampung Timur adalah perairan yang berhadapan langsung dengan Laut Jawa dan banyak ditemukannya berbagai jenis organisme di daerah habitatnya. Karakteristik daerah ini merupakan perairan tipe pantai terbuka dan termasuk dalam wilayah pengelolaan Perikanan Negara Republik Indonesia (WPP-NRI712) (Permen KP No.01 Tahun 2009) serta dikenal sebagai salah satu produsen jenis organisme kepiting rajungan yang berpotensi di Indonesia. Tujuan dari penelitian ini, yaitu mempelajari sebaran parameter kualitas air, *tropical state index* (TSI), dan menentukan status mutu air di perairan Taman Nasional Way Kambas, Lampung Timur, Lampung. Penelitian dilaksanakan mulai bulan Januari hingga Maret 2021, yang meliputi pengambilan sampel dan analisis di laboratorium. Sampel air diambil setiap dua minggu, dan dianalisis di laboratorium. Metode yang digunakan dalam penelitian ini yaitu dengan menggunakan metode *trophic state index* (TSI) dan Storet. Sebaran kualitas air di perairan Taman Nasional Way Kambas (TNWK) pada setiap lokasi seperti sungai, muara, dan laut termasuk ke dalam kategori baik sebagai habitat rajungan. Hasil perhitungan dengan metode TSI, pada sungai stasiun 1, stasiun 3, dan stasiun 4 termasuk mesotrofik, sedangkan stasiun 2 termasuk oligotrofik. Pada muara, stasiun 1 dan stasiun 2 termasuk mesotrofik, stasiun 3 termasuk ultra oligotrofik, dan stasiun 4 termasuk eutrofik sedang. Perairan laut termasuk dalam kategori ultra oligotrofik. Hasil perhitungan dengan menggunakan metode Storet yaitu mutu perairan pada masing-masing stasiun termasuk ke dalam kelas C dengan skor -11 sampai -30 yaitu cemar sedang.

Kata Kunci : Kualitas air, Storet, *trophic state index*(TSI).

ABSTRACT

THE TROPHIC STATE OF WATER WAY KAMBAS NATIONAL PARK, LAMPUNG TIMUR, LAMPUNG

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The coastal area of East Lampung that directly opposite the Java Sea has many types of organisms are found in these areas. The characteristics of this area are open coastal waters and are included in the State Fisheries Management area of the Republic of Indonesia (WPP-NRI712) (Permen KP No. 01 of 2009) and are known as one of the potential producers of swimming crab in Indonesia. Namely, knowing the distribution of water quality parameters, knowing the tropical state index (TSI), and knowing the status of water quality in the waters of Way Kambas National Park, East Lampung, Lampung. The re-research was carried out from January to March 2021, which included samples and analysis in the laboratory. Water samples were taken every two weeks, the water samples were then analyzed in the laboratory. The method used in this research was the trophic state index (TSI) and Storet methods. The distribution of water quality in the waters of the Way Kambas National Park (TNWK) at each location such as rivers, estuaries, and the sea was included in the good category as swimming crab habitat. The results of the calculation used the TSI (trophic state index) method, at station 1, station 3, and station 4 rivers are mesotrophic, while station 2 was oligotrophic. At the estuary, station 1 and station 2 are mesotrophic, station 3 was ultra oligotrophic, and station 4 was moderately eutrophic. Then the sea was included in the ultra oligotrophic category. The results of calculations used the storet method were that the water quality at each station was included in class C with a score of -11 to -30 which was moderately polluted.

Keywords: Water quality, Storet, trophic state index (TSI).