

ABSTRAK

Penelitian tentang Komunitas Alga Epilitik Di Danau Diatas telah dilakukan pada bulan September 2015 sampai Januari 2016. Tujuan dari penelitian ini untuk mengetahui komposisi dan struktur komunitas alga epilolitik di Danau Diatas. Sampel dikoleksi menggunakan metode survey dan penetapan stasiun secara *purposive* berdasarkan rona lingkungan. Hasil penelitian diperoleh sebanyak 115 spesies terdiri dari kelas Bacillariophyceae (Diatom) 61 spesies, Chlorophyceae 33 spesies, Cyanophyceae 18 spesies, Euglenophyceae 2 spesies dan Dinophyceae 1 spesies. Kepadatan rata-rata 2531,78 ind/cm² dengan kepadatan tertinggi di stasiun II (Villa) dan terendah di stasiun I (Dermaga). Alga epilolitik yang dominan ditemukan adalah *Cymbella tumida*, *Denticula elegans*, *Denticula vanheurcki*, *Diatoma mesodon* dan *Ephitemia turgida*. Komunitas alga epilolitik di Danau Diatas dalam kondisi prima (stabil) dengan Indeks diversitas berkisar 3,203-3,658, Indeks equitabilitas tinggi berkisar 0,722-0,819 dan komunitas antar stasiun relatif seragam dengan indeks similaritas 70,807-79,012%. Aktivitas disekitar Danau Diatas belum memberi pengaruh terhadap komunitas alga epilolitik.

Kata Kunci : Alga Epilolitik, Danau Diatas, Komposisi, Struktur



ABSTRACT

A research on community of epilithic algae in Diatas Lake was conducted on September 2015 until January 2016. The purpose of this research was to clarify composition and structure of epilithic algae in Diatas Lake. Samples were collected by survey and quadrat method at 4 different stations purposively. The result found 115 species of epilithic algae belong to 5 classes; Bacillariophyceae (61 species), Chlorophyceae (33 species), Cyanophyceae (18 species), Euglenophyceae (2 species) and Dinophyceae (1 species). Total density of epilithic algae from 2531.78 ind/cm². The highest density of epilithic algae at station II (Villa) and the lowest in station I (Dermaga). The dominant species epilithic algae were *Cymbella tumida*, *Denticula elegans*, *Denticula vanheurcki*, *Diatoma mesodon* and *Ephitemia turgida*. Community of epilithic algae in Diatas Lake was still stable condition with Shannon-Winner Diversity index of algae epilithic was 3.203 to 3.658. Equitability index was 0,722 to 0,819. Similarity index was 70.807 to 79.012%. Activities around Diatas Lake not give effect to epilithic algae communities.

Keywords : Algae Epilitic, Lake Diatas, Composition, Structure

