

**STUDI KELIMPAHAN FITOPLANKTON PADA PERAIRAN PANTAI MUTIARA 88
KECAMATAN PANTAI CERMIN KABUPATEN SERDANG BEDAGAI SUMATERA
UTARA**

VERONIKA SAGALA (408241047)

ABSTRAK

Penelitian tentang “ Studi kelimpahan Fitoplankton Pada Perairan Pantai Mutiara 88 Kabupaten Serdang Bedagai Sumatera utara” dilakukan pada bulan Juni-Juli2012. Sampel fitoplankton dan sampel air diambil dari 3 stasiun pegamatan berdasarkan rona lingkungan. Sampel diambil dengan menggunakan Net plankton no.25. Data diperoleh secara kuantitatif dan pengamatan langsung. Penelitian ini bertujuan untuk mengetahui kelimpahan, keanekaragaman, keseragaman, dan dominansi serta faktor-faktor fisika- kimia yang menggambarkan kualitas perairan tersebut. Dari hasil analisis diperoleh 16 genus dari 5 kelas diantaranya Bacilariophyceae 9 genus, Coscinodiscophyceae 4 genus, Zygnemophyceae 1 genus, Mediophyceae 1 genus dan Phaeophyceae 1 genus. Kelimpahan fitoplankton (N) berkisar antara 49,59- 365,84 ind/L. Indeks keanekaragaman (H') berkisar antara 0,6745 - 0,8799 dan tergolong ke dalam keanekaragaman yang tinggi. Berdasarkan indeks keaneka ragaman Shanon-Winner, stasiun I-III memiliki nilai keanekaragaman yang tinggi. Indeks keanekaragaman fitoplankton pada perairan Pantai Mutiara 88 Kabupaten Serdang Bedagai termasuk kategori sangat baik karena berada pada kisaran 0,645 – 0,8799. indeks dominansi fitoplankton pada perairan Pantai Mutiara 88 Kabupaten Serdang Bedagai termasuk kategori sedang berarti tidak ada spesies tertentu yang mendominasi. Dari hasil penelitian parameter fisika kimia perairan diketahui bahwa pada parameter fisika-kimia perairan berada pada nilai yang sesuai dan berada dibawah ambang batas.

STUDY OF ABUNDANCE PHYTOPLANKTON AT MUTIARA 88 BEACH IN PANTAI CERMIN DISTRICT SERDANG BEDAGAI NORTH SUMATRA

VERONIKA SAGALA (408241047)

ABSTRAK

The research of "Study Of Abundance Phytoplankton At Mutiara 88 Beach In Pantai Cermin District Serdang Bedagai North Sumatra" was conducted in June-Juli 2012. Samples of phytoplankton and water was taken from three stations on the environmental setting of observe. The samples were taken by using the Net plankton no.25. Data obtained in quantitative and direct observation. This study aims to determine the abundance, diversity, similarity, and dominance as well as the factors that determine the physico-chemical quality of these waters. The results of analysis obtained from 16 genera of five classes of fifth grade among them Bacilariophyceae 9 genus, genus Coscinodiscophyceae 4, Zygnemophyceae one genus, genus and Phaeophyceae Mediophyceae 1 1 genus. Phytoplankton abundance (N) ranged from 49.59 to 365.84 ind / L. Diversity index (H') ranged from 0.6745 to 0.8799 and belonging to the diversity is good. Based on the Shannon diversity index-Winner, stations I-III has a good value diversity. Diversity indices of phytoplankton at Mutiara 88 Beach in Pantai Cermin District Serdang Bedagai North Sumatra including the category of very good because in the range of 0.645 to 0.8799. Dominance indices of phytoplankton Mutiara 88 Beach in Pantai Cermin District Serdang Bedagai North Sumatra were moderate which means there are certain species not dominate. From the results of parameter studies of chemical physics waters known that the physico-chemical parameters of waters is at an appropriate value and is below the threshold.