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Analisis hubungan kandungan klorofil fitoplankton dengan suhu dan salinitas di Estuari Cimandiri, Pelabuhanratu, Jawa Barat = Analyse of the correlations of chlorophyll phytoplankton with temperature and salinity in Cimandiri Estuary, Pelabuhanratu, West Java

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Abstrak

Penelitian mengenai analisis hubungan kandungan klorofil fitoplankton dengan suhu dan salinitas di Estuari Cimandiri, Pelabuhanratu Jawa Barat telah dilakukan pada bulan Januari-Mei 2017. Hasil konsentrasi kandungan klorofil-afitoplankton di Estuari Cimandiri berkisar antara 0,0163--0,2361 mg/l. klorofil-bfitoplankton berkisar antara 0,0061--0,0131 mg/l, sedangkan klorofil-cfitoplankton berkisar antara -0,0501-- -0,0965 mg/l. Kandungan klorofil-ame miliki nilai lebih tinggi dibandingkan klorofil-b dan klorofil-c. Hasil identifikasi dan pencacahan sampel diperoleh 4 filum yaitu Bacillariophyta 7genus, Dinophyta 3 genus, Cyanophyta 2 genus dan Chlorophyta 3 genus. Analisis korelasi Spearman dan Pearson menujukkan hubungan antara klorofilfitoplankton dengan suhu sangat rendah. Terdapat korelasi antara klorofil fitoplankton dengan salinitas namun berkorelasi negatif. Faktor lingkungan yang paling memengaruhi kandungan klorofil fitoplankton di Estuari Cimandiri yaitu konsentrasi nitrat dan fosfat di stasiun penelitian sedangkan struktur komunitas yang paling memengaruhi kandungan klorofil fitoplankton yaitu kelimpahan fitoplankton.

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Research on the analysis of the relationship between phytoplankton chlorophyll content with temperature and salinity at Cimandiri Estuary, Pelabuhanratu West Java was conducted in January May 2017. The result of concentration of chlorophyll a phytoplankton content in Estuary Cimandiri ranged from 0,0163 mdash 0,2361 mg l. Chlorophyll b phytoplankton ranged from 0,0061 0,0131 mg l, while chlorophyll c phytoplankton ranged from 0,0501 0,0965 mg l. The content of chlorophyll a has a higher value than chlorophyll b and chlorophyll c.

The results of the identification and enumeration of the samples were 4 phylum Bacillariophyta 7 genera, Dinophyta 3 genera, Cyanophyta 2 genera and Chlorophyta 3 genera. Spearman and Pearson correlation analysis showed the relationship between chlorophyll phytoplankton with temperature is very low. There is a correlation between phytoplankton chlorophyll with salinity but negatively correlated. Environmental factors that most affect the content of phytoplankton chlorophyll in Cimandiri Estuary is the concentration of nitrate and phosphate in research station while the most influencing the concentrations of chlorophyll phytoplankton is the abundance of phytoplankton.