



Composition and Diversity Phytoplankton in Inner Ambon Bay

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Abstract: Ambon Bay water have potencial fisherry. Especially small pelagic fish. That fish depend on phytoplankton as have food. This study aims to Determine the composition, and density of phytoplankton in relation to the characteristics of the waters. Phytoplankton sampling was done vertically by using a plankton net Kithara to Pebruary 2015. Th at study found 83 speci es of phytoplankton roomates Consist of Bacillariophyceae (58 species), Dinophyceae (24 species), and Silicoflagellata (1 species). Diversity indexs (H') of phytoplankton between 1.927-2.522. In that waters dominated by *Chaetoceros Diversus*, *Chaetoceros compressus*, *Chaetoceros affinis*, *Chaetoceros curvicetus*, and *Rhizosolenia styliformis*. Beside that phy toplankton harmfull *Alexandrium* found with density of 0.02%. T he correlation of the physical and chemical characteristics of the waters with an abundance of phytoplankton Showed that Group I Consist of Station 5, 6, and 7 dominated by *Chaetoceros didymus*, *Pseudoguinaridia recta* and *Rhizosolenia decipiens* the which is influenced by the DO, temperature, NH_3 , DIN: DIP and DIN: DSi, group II Consist of Station 2 and 3 dominated by *Thalassiothrix longissima*, *Ceratium macroceros*, *Chaetoceros coarctatus* and *Eucampia cornuta* the which is influenced by secchi depth and salinity.

Keyw ords: Phy toplankton, composition, Diversity, *Inner Ambon Bay (TAD)*.

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