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ABSTRACT

Mariana Simangunsong, NIM 4143220016 (2020). Analysis of Macrozoobenthic Community in Lake Toba, Toba Samosir Regency, North Sumatra.

This study aims to determine the Macrozoobenthic community in the Lake Toba region, Toba Samosir Regency, North Sumatra, and to determine its relationship with the physical chemical conditions of Lake Toba waters. This research was conducted in May to July 2018. This research uses descriptive quantitative research. Sampling was carried out using Eckmann Grab from 4 sampling stations. At each station 3 samples were taken at different points. The samples obtained were then sorted using a stratified filter, then washed and then soaked with 4% formalin solution for 1 day then washed again and soaked in 70% alcohol solution to be identified. Analysis of the data used in this study is the Diversity Index (H'), Uniformity Index (E), Density (K), Dominance (D) and then analyzed its correlation with the physical parameters of water chemistry using Pearson correlation analysis (r). The Macrozoobenthoc that were found were 565 individuals belonging to 8 families, namely: Pachychilidae, Ampullariidae, Viviparidae, Thiaridae, Lymnaeidae, Pleuroceridae, Cyrenidae, and Unionidae.

Keywords: Macrozoobenthic, community, chemical physics parameters

