

**A QUANTITATIVE AND QUALITATIVE ANALYSES OF  
PHYTOPLANKTON IN LAMENTAO  
BAROTAC NUEVO, ILOILO**

by

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## ABSTRACT

The study was conducted to identify the different genera of phytoplankton in Lamentao, Barotac Nuevo, to determine the distribution and composition of phytoplankton both near shore and offshore and to determine the physico-chemical characteristics in both sampling sites. The samples were obtained near shore (10m) and offshore (15m) for 10 minutes. Towing was done at 12 noon for 200 m. Sampling was done once a month for three consecutive months starting October to December. Each sample was allowed to stand for at least 24 hours. Then these were decanted to have a concentrated sample. Then 1ml sample was introduced in a sedge wick counting chamber for identification and counting under the microscope.

The study gave the following findings: There are 32 genera identified in the surface water of Lamentao. Offshore has a higher abundance than the near shore. There are some genera that significantly differ in 2 sampling area shown by the t-test. Density offshore were generally significantly higher than density nearshore. Relative abundance, *Leucosolenia sp.* and *Rhizosolenia sp.* have the higher one. There is a higher diversity in off shore than in near shore. Most of the genera is present in both sites and month as shown by the index of similarity.