

## ABSTRACT

**Dianti Mayadika Putri. 2018. Study of Abundance And Diversity of Benthos in Estuary Waters, District of Mangrove Karangsong, Indramayu Regency as Biology Learning Source. Advisors: Drs. H. Ahmad Mulyadi, M.Pd. and Ida Yuyu Nurul Hizqiyah, S.Pd., M.Si.**

The aim of this study is to obtain data regarding abundance and diversity of Benthos in Estuary Waters, District of Mangrove Karangsong, Indramayu Regency. The research conducted on 21<sup>th</sup>-22<sup>th</sup> of April 2018. This study employs the method of descriptive. The study design used is a sampling method using Ekman Grab and Hand Sorting. Sampling was conducted at three stations in the waters of estuary. At each station there are three points of observation, and at each point three times of sampling. Out of the observation, it is obtained 759 individuals of Benthos (Makrozoobenthos) including 15 species from 4 Classes and 15 Genera. The species found are *Anodontia bullula*, *Amphibalanus amphitrite*, *Anadara granosa*, *Balanochilis glandiformis*, *Balanus eburneus*, *Cerithidea cingulata*, *Crassostrea ostrea*, *Donax vittatus*, *Episesarma vesicolor*, *Marphysa sanguinea*, *Mytilus chilensis*, *Scrobicularia plana*, *Septaria cumingiana*, *Telescopium telescopium* dan *Volema myristica*. The supporting measured data are in terms of climatic factors which include water temperature, water pH, salinity, and Dissolved Oxygen (DO). The data are processed using Multiple Linear Regression on the program of SPSS in order to determine the correlation of climatic factors on the abundance and diversity. The highest species abundance values are in *Cerithidea cingulata* with the value of 1320 individuals/m<sup>2</sup>, while the lowest species abundance values of *Balanochilis glandiformis* with the value of 3 ind / m<sup>2</sup>. The average value of the Diversity Index is 1.13 which indicates that the diversity of Benthos (Makrozoobenthos) in Estuary Waters, District of Mangrove Karangsong, Indramayu Regency is in the category of medium.

**Keywords:** Abundance, Diversity, Benthos, Makrozoobenthos