

ABSTRACT

Nurul Aulia. 2016. The Correlation Between Community of Seagrass With Echinodermata at Sindangkerta Beach, Cipatujah District Tasikmalaya, West Java. Mentored By Drs. Yusuf Ibrahim, M.Pd., M.P as Counselors I and Drs. Suhara, M.Pd. as Counselors II.

This research purpose of measuring the correlation of the community seagrass bed with community Echinoderms in Sindangkerta beach, in Sindangkerta District of Tasikmalaya District, West Java. This study used descriptive correlational method and implemented in April 2016. The sampling method used in this study using a design Belt transects and handsorting. Variables are the community of seagrass bed and community of Echinoderms. Species of seagrass found in Sindangkerta beach is *Thalassia hemprichii* (Enrenberg) Ascherson. Species of Echinoderm found in Sindangkerta beach is Sea urchin (*Diadema Setosum*), The star snakes sea (*Ophiocoma dentate*), Sea cucumber (*Holothuria leucospilota*). Research station consists of six stations, each consisting of 5 squares stasitun. Sampling as much as 2 times in every station. Identification of samples carried out in the Laboratory of Biology, University of Pasundan Bandung FKIP. The results of the analysis of research shows that an abundance of seagrass ranged 640-1920 ind/m². An abundance of echinoderms range 1- 40 ind/m². Index (H') of Echinoderms diversity ranged from 0 to 0.35. The range of values index (H') of Echinoderms diversity showed in Sindangkerta Beach has low species diversity. Determining the correlation between the abundance of seagrass with abundance Echinoderms using linear regression through SPSS processing applications. The results of the study showed a correlation value seagrass with Echinoderms (r) -0.382, which means the relationship between them is low but do the opposite direction indicated by the straight line is minus / negative. The coefficient of determination (r²) gained 0.15 its means that the effect on the survival of seagrass community echinoderms in Sindangkerta Beach only 15%.

Keywords: Community, Seagrass bed, Echinoderm, Abundance, Diversity, Belt Transect, Handsorting