

Struktur komunitas echinodermata di Padang Lamun perairan Muarabinuangeun, Kabupaten Lebak, Banten = Echinoderms community structure of seagrass beds in the Muarabinuangeun waters, Lebak District, Banten

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Abstrak

Penelitian mengenai Struktur Komunitas Echinodermata di Padang Lamun Perairan Muarabinuangeun, Kabupaten Lebak, Banten, telah dilakukan pada tanggal 6--9 Mei 2016. Penelitian bertujuan untuk mengetahui struktur komunitas Echinodermata yang mencakup kelimpahan jenis dan keanekaragaman jenis pada setiap stasiun penelitian di Muarabinuangeun. Penentuan lokasi pengambilan sampel dilakukan secara purposive sampling dan pengambilan sampel dilakukan dengan metode belt transect. Lokasi penelitian terdiri atas 4 stasiun, dan setiap stasiun terdiri atas 3 transek sebagai pengulangan.

Hasil penelitian menunjukkan bahwa terdapat tiga kelas Echinodermata yang ditemukan di seluruh stasiun penelitian, yaitu Echinoidea, Holothuroidea, dan Ophiuroidea. Jenis Ophiuroidea schoenleinii memiliki nilai kelimpahan 734 ind/m<sup>2</sup>, Macrophiolithrix rugosa 542 ind/m<sup>2</sup>, Ophiuroidea erinaceus 397 ind/m<sup>2</sup>, Holothuria leucospilota 13 ind/m<sup>2</sup>, Holothuria impatientis 3 ind/m<sup>2</sup>, dan Diadema setosum 2 ind/m<sup>2</sup>. Nilai indeks keanekaragaman di Muarabinuangeun tergolong rendah, berkisar antara 0,3--0,70 H.

*Research on Echinoderms community structure of seagrass beds in the Muarabinuangeun Waters, Banten, was conducted on Mei 6th Mei 9th, 2016. The study aims to determine community structure Echinodermata which includes the abundance of species and species diversity at every station in Muarabinuangeun. Determining the location of the sampling done by purposive sampling and sampling carried out by the belt transect method. Location of the study consisted of four stations, and each station consists of 3 transects as repetition.*

The results showed that there are three classes of Echinodermata were found throughout the research station, which Echinoidea, Holothuroidea, and Ophiuroidea. Type Ophiuroidea schoenleinii have an abundance value 734 ind m<sup>2</sup>, Macrophiolithrix rugosa 542 ind m<sup>2</sup>, Ophiuroidea erinaceus 397 ind m<sup>2</sup>, Holothuria leucospilota 13 ind m<sup>2</sup>, Holothuria impatientis 3 ind m<sup>2</sup>, and Diadema setosum 2 ind m<sup>2</sup>. An index value of diversity in Muarabinuangeun relatively low, ranging from 0.30 to 0.70 H.