

Nurfarudin. NIM 170341100011. Estimasi Simpanan Karbon Pada Lamun *Enhalus acoroides* Di Desa Gedugan Pulau Giligenting. Di Bawah Bimbingan **Dr. Apri Arisandi, S. Pi., M.Si**

ABSTRAK

*Pulau Giligenting merupakan pulau yang terletak di Kabupaten Sumenep Madura Provinsi Jawa Timur. Pulau Giligenting terdapat 4 Desa yakni Desa Bringsang, Desa Aenganyar, Desa Galis dan Desa Gedugan. Penelitian ini dilaksanakan di lokasi Desa Gedugan. Lokasi tersebut di jadikan lokasi penelitian karena terdapat ekosistem lamun. Penelitian ini dilakukan bertujuan untuk mengetahui kualitas perairan di Desa Gedugan, mengetahui kerapatan lamun di Desa Gedugan, mengetahui biomassa dan kandungan karbon pada lamun di Desa Gedugan. Pengukuran lamun di lakukan dengan transek 1mx1m pada semua titik penelitian yakni titik 0 m, 50, m dan 100 m yang di bagi menjadi 3 titik lokasi penelitian dengan menggunakan metode purposive sampling. 1 lokasi titik penelitian dibentangkan 1 garis line transek 100 m. Lokasi penelitian yakni dekat dengan pagan ikan, tidak terdapat aktivitas manusia dan dekat wisata. Identifikasi jenis lamun dilakukan berdasarkan buku identifikasi lamun. Sampling nilai biomassa dan analisa kandungan dengan metode pengabuan dilakukan pada semua titik dan hasil di analisis menggunakan Rancangan acak Lengkap (RAL). Kualitas perairan di Desa Gedugan masih dalam kondisi yang layak untuk pertumbuhan lamun. Hasil identifikasi di peroleh 1 jenis lamun yakni *Enhalus acoroides*. Nilai kerapatan lamun di Desa gedugan mempunyai kerapatan jarang dan agak jarang. Nilai biomassa dan kandungan karbon di Desa gedugan bawah substrat (akar dan rhizoma) mempunyai nilai biomassa dan kandungan karbon lebih besar di bandingkan nilai di atas substrat (daun).*

Kata kunci : *Pulau Giligenting, Karbon, Ekosistem Lamun*

Nurfarudin. NIM 170341100011. Estimation of Carbon Deposits at if *Enhalus acoroides* in Gedugan Village of Giligenting Island. Under the guidance **Dr. Apri Arisandi, S. Pi., M.Si**

ABSTRACT

Giligenting Island is an island located in Sumenep Madura District East Java Province. Giligenting Island There are 4 villages namely the Village of Bringsang, Aenganyar Village, Galis Village and Gedugan Village. This research was conducted at the location of Gedugan village. The location is made to research the location because there is a samanical ecosystem. This study was conducted aims to determine the quality of waters in Gedugan Village, knowing the denominary density in Gedugan Village, knowing biomass and carbon content at the seduction in Gedugan Village. The measurement of the duration of the Dry with a transmission of 1MX1m at all the research pointsie dot 0 m, 50, M and 100 mwhich is in for the 3 points of research locationUsing purposive sampling method. 1 Location of the research point is unnamed 1 mine line of transek 100 m. Research locationie close to Fish Pagan, there are no human activity and near tour. Identification of the type of langman is done based on the LEDAM identification book. Sampling The value of biomass and analysis of content with the revixing method is performed at all points and results in the analysis using a complete random design (RAL). The quality of waters in Gedugan Village is still in a decent condition for the growth of the Lamun. The results of identification in earnings 1 type of senior is the enhalus acoroides. The value of the duration diameter in Gedugan village has a rare and rather rare density. The value of biomass and carbon content in Gedganen Village under substrate (roots and rhizoma) has biomass and larger carbon content in compared to the above substrate (leaf).

Keywords: *Pulau giligenting, Carbon, Lamun Ecosystem*