

ESTIMATION OF CARBON STOCK IN MANGROVE FOREST

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ABSTRACT

*Pagatan Besar mangroves can be considered as a CO₂ buffer system in Tanah Laut regency. This study aims to find out the carbon content stored on Pagatan Besar mangrove stands. The method used in this study is a survey method with purposive sampling techniques. The results showed that the degree of dominance of mangrove species in Pagatan Besar is *Avicennia marina*. The potential biomass in mangrove stands in Pagatan Besar is 40.10 tons / ha, with carbon stocks of 18.85 tons / ha. Based on the potential of biomass and carbon obtained shows that the ability of mangrove ecosystems to absorb carbon in Pagatan Besar is still low.*

Keywords: *Biomass, Carbon Stock, Mangroves, Pagatan Besar*