Potensi stok dan serapan karbon ekosistem mangrove di Pulau Tunda, Kabupaten Serang, Provinsi Banten = Carbon uptake and stock potency of mangrove ecosystem in Tunda Island Serang District Banten Province

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Abstrak

Penelitian mengenai potensi stok dan serapan karbon ekosistem mangrove di Pulau Tunda telah dilakukan pada bulan April--Juni 2016. Penelitian ini bertujuan untuk menganalisis potensi stok dan serapan karbon ekosistem mangrove, mengetahui spesies mangrove yang memiliki stok dan serapan karbon potensial, dan memperoleh estimasi harga karbon ekosistem mangrove di Pulau Tunda. Penentuan lokasi pengambilan sampel dilakukan secara purposive sampling pada enam stasiun bagian selatan dan timur Pulau Tunda. Berdasarkan hasil analisis kandungan karbon ekosistem mangrove Pulau Tunda, diperoleh nilai biomassa 196,76 ton/ ha, stok karbon 91,48 ton/ ha, dan serapan karbon 335,06 ton/ ha. Proporsi stok dan serapan karbon terbesar tingkat pohon dan pancang mangrove di Pulau Tunda berasal dari spesies Excoecaria agallocha yaitu 107,47 ton/ ha dan 392,23 ton/ ha. Ekosistem mangrove Pulau Tunda memiliki estimasi harga karbon sebesar Rp 88.690.382--Rp 221.725.955 ton/ ha.

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Research on the carbon uptake and stock potency of mangrove ecosystem in Tunda Island was conducted on April--June, 2016. The aim of the study was to analyze the mangrove ecosystem potency of carbon stock and its uptake, to know the mangrove species that has potential carbon stock and its uptake, and to estimate the potency of carbon price mangroveecosystem in Tunda Island. The location of sampling was determined by purposive sampling at six stations of south and east part Tunda Island.

The analysis result of carbon content at Tunda Island mangrove ecosystem showed that, biomass 196.76 ton/ ha, carbon stock 91.48 ton/ ha, and carbon uptake 335.06 ton/ ha. The largest proportion of the stock and carbon uptake at the level of mangrove tree and sapling in Tunda Island derived from Excoecaria agallocha, that is 107.47 ton/ ha and 392.23 ton/ ha. Tunda Island mangrove ecosystem have an estimated total carbon price of Rp 88.690.382--Rp 221.725.955 ton/ ha.