

Penurunan cadangan karbon di kawasan hutan DAS Semangka, Provinsi Lampung = Decrease of carbon stocks in forest areas Watershed Semangka, Lampung Province

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Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20457557&lokasi=lokal>

Abstrak

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DAS Semangka di Provinsi Lampung memiliki potensi pengatur tata air, penyedia oksigen, dan cadangan karbon pada dua wilayah konservasi di dalamnya yaitu Taman Nasional dan Hutan Lindung. Potensi cadangan karbon berkurang dipengaruhi deforestasi pada wilayah konservasi. Oleh karena itu penelitian ini penting untuk mengetahui secara spasial dan temporal deforestasi dan cadangan karbon. Perhitungan cadangan karbon dan overlay klasifikasi tutupan lahan dengan Citra Landsat digunakan untuk analisis deforestasi serta penurunan cadangan karbon di wilayah konservasi dalam periode 1996 ndash; 2016. Penurunan cadangan karbon tertinggi DAS Semangka periode 1996 ndash; 2016 pada ketinggian 1.001-1.500 mdpl dan kelerengan 0-2 dengan penurunan cadangan karbon 26 jutaton.

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ABSTRACT

Semangka Watershed in Lampung Province has potential as regulate water, oxygen providers, and carbon stocks in two conservation areas which are National Park and Protected Forest. The potential for carbon stocks had reduced due to deforestation in conservation areas. Therefore, this research was important to know deforestation and carbon stocks spatially and temporally. The calculation of carbon stocks and overlay of land cover classification with Landsat Imagery was used for deforestation analysis as well as decrease of carbon stock in conservation area from period 1996 ndash 2016. The highest decrease of carbon stocks in Semangka Watershed at an altitude of 1.001 1.500 masl and slopes 0 2 was 26 million carbon stock decrease in the period from 1996 2016.