

## Dampak konversi lahan terhadap daya serap karbon dioksida CO<sub>2</sub> di kota Tangerang Selatan = Land conversion impact to carbon dioxide (CO<sub>2</sub>) absorption: case study Tangerang Selatan city

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### Abstrak

Kebutuhan akan lahan untuk pemukiman mengakibatkan konversi tutupan lahan vegetasi menjadi non-vegetasi. Tangerang Selatan mengalami perubahan luas akibat konversi lahan vegetasi menjadi non-vegetasi mencapai 31,472 km<sup>2</sup> dan proses konversi ini mengakibatkan kehilangan daya serap CO<sub>2</sub> sebesar 98.212,022 kg CO<sub>2</sub>/ m<sup>2</sup> dalam kurun waktu 10 tahun 2007-2017. Pola konversi lahan sangat terlihat pada Kecamatan Pondok Aren dengan perubahan luasan mencapai 7,632 km<sup>2</sup>. Korelasi antara nilai biomassa yang dipengaruhi oleh nilai NDVI dengan korelasi Pearson mencapai R<sup>2</sup> = 0.627 yang berarti terdapat pengaruh sebesar 60 NDVI terhadap nilai biomassa. Model estimasi Biomassa oleh NDVI dengan pengukuran lapangan menghasilkan persamaan regresi  $\ln Y = 3969 X 1058$ .

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The human need of land for settlements resulting to conversion of vegetation cover to non vegetation. A wide change of conversion occurred in Tangerang Selatan are primary from vegetation cover into non vegetation and reached about 31,472 km<sup>2</sup>. This conversion process resulted in absorption loss of CO<sub>2</sub> amount 98,212,022 kg CO<sub>2</sub> m<sup>2</sup> in the period of 10 years 2007 to 2017. The pattern of land conversion is clearly seen at Pondok Aren Sub district with the change of area reaches 7,632 km<sup>2</sup>. The correlation between biomass value that is influenced by the value of NDVI with Pearson correlation reach R<sup>2</sup> 0.627 which means there is influence of 60 NDVI to the value of biomass. Biomass estimation model by NDVI with field measurement resulted to regression equation  $\ln Y 3969 X 1058$ .