

Dear Dr. Eko Haryono

Please find enclosed our manuscript entitled “Soil Carbon Dynamics as the impact land-use change in tropical peatland in West Kalimantan, Indonesia” by Rossie Wiedya Nusantara et al., which we would like to submit for publication as a review paper in International Journal of Geography.

Studies of soil carbon (C) dynamics studies have revealed impact of changing of peat swamp forest significantly contributes to the environment a result of the losses of soil C and a released C to the atmosphere during such destruction. The other alternative used in explaining soil organic matter (SOM) changes can be used stable C isotope ( $\delta^{13}\text{C}$ ) except soil C measurement in peat soil. The abundance of  $\delta^{13}\text{C}$  can be used to predict the rate of accumulation and loss of soil C as a result of land-use change, decomposition and humification level of soil organic matter as well as to reconstruct the past changes in SOM from plants.

In this study, the soil samples was obtained from several land-uses, namely primary peat forest, secondary peat forest, shrubs, oil palm and maize field in Kubu Raya District, West Kalimantan Province. Soil analysis in the laboratory includes SOC, ash content and  $\delta^{13}\text{C}$  whereas measurements and observations of soil in the field encompass peat maturity and depth of peat soil. The finding of this research have revealed that the changing of tropical peat forest to another land uses tends to lower C soil and  $\delta^{13}\text{C}$  soil in peatland. C dynamics of soil due to land conversion is affected by changes in anaerobic to aerobic conditions on peat soil.

We recommended 3 reviewers; (1) Prof Dwi Astiani from Forest Faculty of Tanjungpura University/dwi.astiani@gmail.com, (2) Dr. Burhanuddin from Forest Faculty of Tanjungpura University/burhanuddin@fahutan.ac.id, (3) Dr. Evi Gusmayanti from Agriculture Faculty of Tanjungpura University/vie.untan@gmail.com.

We confirm that this manuscript has not been published elsewhere and is not under consideration by another journal. All authors have approved the manuscript and agree with submission to International Journal of Geography. We have read and have abided by the statement of author guideline for manuscripts submitted to International Journal of Geography. The authors have no conflicts of interest to declare.

Sincerely yours,  
Rossie W. Nusantara