Land elevation and slope exposition impacts on rubber wood production volume under agroforestry system

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Abstract. Nowaday the role of genetic and environment factors on latex production have widely revealed by some researchers, but lack on the wood production wood especially for the effect of land elevation and slope exposition direction against solar beam radiation so need to research. Ordinary Least Square employed at 90% significant level, the respond variable was the volume wood production per tree, [WOOD], whereas the predictor were land elevation in an-100 m above sea level [ELV], land slope expositions that were decomposed into 4 categories with the reference of the compass direction in between $337^0.30$' to 225.5^0 follow needle clock's direction while the three other directions were the westward [WEST], southwest ward [SWST], and northwest ward [NWST]. In order to control the model error we also employed the variables of the air temperature [TEMP] and air humidity. Data collected by surveying to 75 parcels of land belong to HKm member of Mangga Joyo located in Way Kanan Regency. Parameter optimization used Minitab 16. The result suggest, the [WOOD]: (1) will increase significantly around 0.02205(SE=0.01048)m^3 for every 100m higher of land elevation, and (2) will decrease significantly around 0.21532(SE=0.07986)m^3 which land exposition face to westward than that of eastward. It may be beneficiary for $REDD^+$ implementation under Paris Agreement.

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RUBIS 2021 <rubis.project@cirad.fr> Tue, Mar 23, 12:24 AM

to samsul.bakri, christine.wulandari, rusitaunila, gnazhfr, me, rubis.project

Dear Dr. Samsul Bakri,
It is our pleasure to inform you that your paper #49-045 entitled "Land Elevation and Slope Exposition Impacts on Rubber Wood Volume under Agroforestry System" for RUBIS International Workshop on the Resilience of Rubber-based Agroforestry Systems in the Context of Global Change (RUBIS 2021) has been ACCEPTED as ORAL PRESENTER at the workshop and possible publication in **Scopus Indexed** E3S WoC Proceeding.

The selected paper has an opportunity to publish in **Scopus indexed** Indonesian Journal of Biotechnology.

For the smooth running of the program, you **must** record a video of your presentation and submit it through our system at **ugm.id/rubisworkshop2021video** before 2021-03-31 (max. 100 MB for 10 minutes talk).

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Thank you very much for contributing to the RUBIS 2021. We are looking forward to welcoming you to the conference.

For more information please contact us at email: **rubis-project@cirad.fr**.
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Kind regards,
The Conference Chairs