

Review of: "Open-Source Remote Sensing Determination of Carbon Emissions From Tropical Deforestation Scenarios in Southeast Nigeria"

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Potential competing interests: No potential competing interests to declare.

Here are some improvements that the paper authors could consider:

1. Detailed methodology: Provide a comprehensive description of the methodology used for determining carbon emissions from tropical deforestation scenarios. Include information on the data collection process, analysis techniques, and any limitations or uncertainties associated with the methodology. This will enhance the transparency and reproducibility of the research.
2. Expand the scope and generalizability: While focusing on Southeast Nigeria is valuable, it would be beneficial to discuss the potential variations in carbon emissions from deforestation in different geographic areas and the implications of the findings beyond Southeast Nigeria. This could involve comparing the results with similar studies conducted in other regions or discussing factors that may influence carbon emissions in different contexts.
3. Address data reliability and accuracy: Discuss the reliability and accuracy of the data obtained from Global Forest Watch or any other sources used for analysis. Acknowledge any limitations or potential sources of error in the remote sensing data and suggest ways to mitigate or account for these uncertainties. Consider validating the remote sensing data with ground-based measurements or other independent sources.
4. Incorporate socioeconomic factors: Consider integrating socioeconomic factors that may contribute to deforestation, such as population growth, economic activities, or policy interventions. Analyze the relationship between these factors and carbon emissions to provide a more comprehensive understanding of the drivers of deforestation and their impact on carbon emissions. This can involve incorporating relevant socio-economic data into the analysis or discussing potential future research directions in this area.
5. Elaborate on mitigation strategies: Expand on the recommended intervention policies for bamboo forestry to mitigate carbon emissions. Provide a more detailed discussion on specific mitigation strategies, their potential effectiveness, and their feasibility in the context of Southeast Nigeria. Consider discussing other potential mitigation approaches beyond bamboo forestry and explore their applicability to the region.

