

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

Mahendra Pal1

1 Lund University

Potential competing interests: No potential competing interests to declare.

The manuscript, titled 'Open-Source Remote Sensing Determination of Carbon Emissions from Tropical Deforestation Scenarios in Southeast Nigeria,' is a commendable effort in addressing environmental and ecological aspects. The study underscores the importance of focusing on the African continent, specifically Nigeria, in the realm of remote sensing data. However, the manuscript requires significant revisions before acceptance and publication.

Key Comments and Suggestions:

- 1. Introduction: The introduction effectively highlights the importance of tree cover resources but lacks a clear statement regarding the research gap and the specific contribution of the study. It is suggested to explicitly state the research gap and how the study addresses existing knowledge limitations for a more compelling motivation.
- 2. Methodology: Although the methodology is detailed, Figures 1 and 2 lack clarity. Improving these figures by incorporating geographical coordinates and enhancing image resolution could provide readers with a clearer understanding of the study area and data collection locations. The subsection titled 'Assessments of Forest Cover Variables Using GFW Tool' may be challenging for readers to comprehend. Enhancing clarity can be achieved by incorporating a flow diagram and presenting step-by-step details, thereby facilitating a better understanding for readers.
- 3. Results: The results section is comprehensive, but Figure 5 seems disconnected from the paper's title. Consider integrating Figure 5 into the Introduction/methodology section or provide clearer context for its inclusion.
- 4. Discussion: Strengthen the discussion section by delving deeper into the implications of the findings, connecting them to existing research, and discussing broader environmental and policy contexts.
- 5. References: Check and revise the references list and follow journal standard format to list the citations.
- 6. Language and Clarity: Simplify certain sections for improved accessibility, especially for non-expert readers. Clear and straightforward language will enhance overall clarity.
- 7. Conclusion: While the conclusion effectively summarizes the study's contribution, it could benefit from reiterating the practical implications of the findings. Emphasize how the insights can inform environmental policies and conservation efforts.



- 8. Overall Impression: The manuscript is recognized as a valuable contribution with a comprehensive approach and practical recommendations. Consider emphasizing the real-world applications of the research throughout the manuscript.
- 9. Formatting and Style: Adheres to general formatting and style guidelines; however, ensure consistency throughout.

Addressing these comments and suggestions will likely enhance the manuscript's clarity, impact, and accessibility, further strengthening its contribution to the field.