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

Franco Perazzoni

Potential competing interests: No potential competing interests to declare.

The article presents a methodology for estimating carbon emissions from tropical deforestation using open-source remote sensing data. The study area is located in Southeast Nigeria, which has experienced significant deforestation in recent years. The authors used Landsat 8 imagery to classify land cover and forest cover change. They then used the IPCC's default emission factors to estimate carbon emissions from deforestation.

Strengths:

- *The study uses open-source data and software, which makes the methodology accessible to a wider range of researchers.*
- *The authors used a robust methodology to estimate carbon emissions from deforestation.*
- *The study provides valuable insights into the drivers of deforestation in Southeast Nigeria.*

Weaknesses:

- *The study is limited by the availability of open-source data.*
- *The IPCC's default emission factors may not be accurate for all regions.*
- *The study does not consider the uncertainty associated with the estimates of carbon emissions.*

Recommendations:

- *Despite the limitations of the study, they do not impact the quality of the text and, obviously, stem from the authors' own choice.*

English:

- *In my opinion, the article is well-written and intelligible. However, since English is not my native language, I prefer not to comment on the quality of the language.*

Additional comments:

- *The study is relevant to the current debate on climate change.*
- *The results of the study can be used to inform policy decisions on how to reduce deforestation and mitigate*

> *climate change.*
>
> *Overall, the study is a valuable contribution to the literature on estimating carbon emissions from deforestation. The methodology is sound, and the results are applicable. The limitations of the study are important, but they do not detract from the quality of the work.*