

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_113905
Title of the Manuscript:	Carbon stock Assessment of four selected Agroforestry Systems in Owerri-West Local Government Area, Nigeria.
Type of the Article	

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Compulsory REVISION comments</p> <ol style="list-style-type: none"> 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>Yes. The manuscript presents a significant study relevant to present times. Carbon sequestration, mitigation of greenhouse gasses, and carbon sinks in forest landscapes play a very important role in climate change.</p> <p>Yes. Adequate and appropriate.</p> <p>Yes, it is comprehensive.</p> <p>Yes, the subsections followed the logical order.</p> <p>Yes, the manuscript is scientifically correct, as it correlates with already established findings. The results are presented and accurately interpreted. The data sources, collection methods, and analysis techniques are reliable. The use of allometric equations in the manuscript is a crucial step related to efforts of climate change mitigation, as they provide a more accurate estimation of the carbon stock in forestry systems.</p> <p>The citation of international paper on the study of <i>Calophyllum inophyllum</i> L. in Java, Indonesia, regarding biomass estimation may be included.</p> <p>Basuki, T.M., Leksono, B., Baral, H., Andini, S., Wahyuni, N.S., Artati, Y., Choi, E., Shin, S., Kim, R., Yang, A.-R., et al. (2022). Allometric Equations for the Biomass Estimation of <i>Calophyllum inophyllum</i> L. in Java, Indonesia. <i>Forests</i>, 13, 10571.</p> <p>This study presents allometric equations for aboveground biomass (AGB), belowground biomass (BGB), and total above- and belowground biomass (TABGB) predictions of <i>C. inophyllum</i> L. The data collection was carried out twice (2017 and 2021) from 40 trees in Java, Indonesia¹. The allometric equations using the natural logarithm of diameter at breast height (lnDBH) and ln height (lnH) for biomass prediction qualified the model's fit with statistical significance at 95% of the confidence interval for AGB, BGB, and TABGB prediction</p>	
<p>Minor REVISION comments</p> <ol style="list-style-type: none"> 1. Is language/English quality of the article suitable for scholarly communications? 	<p>Yes.</p>	
<p>Optional/General comments</p>		

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PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Rama Nagaraja Reddy
Department, University & Country	India