



**SDI Review Form 1.6**

Journal Name:	<a href="#">Physical Science International Journal</a>
Manuscript Number:	<b>Ms_PSIJ_28446</b>
Title of the Manuscript:	<b>Modelling and Estimating Photosynthetically Active Radiation from Measured Global Solar Radiation at Calabar, Nigeria.</b>
Type of the Article	<b>Original Research Article</b>

**General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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)
<b><u>Compulsory</u></b> REVISION comments	<p><b>Reviewer's Report</b></p> <p><b>Article title:</b> Modelling and Estimating Photosynthetically Active Radiation from Measured Global Solar Radiation at Calabar, Nigeria.</p> <p>The study looks good in terms of providing the necessary dataset for the region, where direct PAR measurements almost do not exist.</p> <p><b>Line 13:</b> Please the sentence measured global is not complete, kindly check again.</p> <p><b>Line 68:</b> The symbol of the minutes in the latitudes and longitude figures is not 1'. I guess it is an apostrophe.</p> <p><b>Line 72:</b> Please provide the unit of the global solar radiation data obtained using Gunn-Bellani radiation integrators.</p> <p><b>Line 80:</b> Please use where instead of Where, if you were describing the parameters in Equation 2.</p> <p><b>Line 83:</b> Same comment as line 80 above</p>	



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	<p><b>Line 297:</b> Please use Table 5 instead of table 5</p> <p><b>Line 298:</b> Use recorded instead of record</p> <p><b>Line 307:</b> Please use Figure 1 instead of figure 1</p> <p><b>Methodology</b> Please did you develop the coefficients in the model equations (Equations 10 – 24), yourself or they were based on the literature values. If they are site specific values, then it is difficult to accept the following statement in your conclusion:</p> <p>‘Therefore, the proposed models could be used to estimate PAR at Calabar and other locations with similar climatological conditions across the globe’</p> <p><b>Results and discussion</b> Please kindly provide spaces between your figures and their units e.g <math>5.36 \text{ MJm}^{-2}\text{day}^{-1}</math> and not <math>5.36\text{MJm}^{-2}\text{day}^{-1}</math>.</p> <p><b>Model Performance</b> Please is it possible to move section 3.1 up, since this could be part of the methodology.</p> <p><b>Conclusions</b> The sentences in lines 299 and 309 look contradictory, can you please explain further why the models cannot be used to estimate PAR at Calabar for March – December as you have stated in the second sentence</p>	
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	in line 309.	
	<b>Reference</b> Please the initials in your references do not have spaces between them. Is it the requirement of the journal? (E.g. use J. N., instead of J.N.,)	
<b><u>Minor</u></b> REVISION comments		
<b><u>Optional/General</u></b> comments		

**Reviewer Details:**

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