

Review Form 3

Journal Name:	Physical Science International Journal
Manuscript Number:	Ms_PSIJ_127391
Title of the Manuscript:	VARIATION OF LIGHTNING ACTIVITY OVER PARTS OF THE WESTERN COAST OF AFRICA
Type of the Article	

PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	This manuscript is a valuable contribution to the scientific community as it addresses a critical gap in understanding the spatial and temporal variations in lightning activity along the western coast of Africa. The use of VLF-WWLLN data enhances the reliability of the findings, providing detailed insights into regional lightning patterns that have significant implications for risk assessment, infrastructure planning, and climate research. I appreciate the manuscript's focus on diverse geographic locations and seasonal trends, which is essential for advancing knowledge on localized meteorological phenomena in an understudied region. However, the manuscript could benefit from a more in-depth discussion on the meteorological drivers of the observed patterns to strengthen its interpretive depth and practical applicability.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	The abstract provides a clear overview of the study, including its objective, methodology, key findings, and significance. However, it can be improved by addressing the following suggestions: <ol style="list-style-type: none"> Methodological Specificity: Briefly mention the total number of lightning strokes analyzed or the total duration of the study to give a sense of the dataset's scale. Key Findings: Expand on the identified seasonal trends or regional hotspots of lightning activity. For instance, specify the months or regions with the highest and lowest activity. Significance: Highlight the practical applications of the study more explicitly, such as how it could inform lightning risk management, infrastructure design, or climate modeling. 	
Are subsections and structure of the manuscript appropriate?	The manuscript has an appropriate structure, with well-defined sections such as the Abstract, Introduction, Materials and Methods, Results and Discussion, Conclusion, and References.	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	This manuscript is scientifically robust and technically sound due to its use of a well-established lightning detection network, the VLF-WWLLN, which is recognized for its reliability and accuracy in capturing global lightning activity. The dataset's high temporal and spatial resolution ensures that the analysis is comprehensive and credible. Additionally, the manuscript employs appropriate statistical summaries and visualizations, such as tables and bar graphs, to convey spatial and temporal variations effectively. The study's focus on a region that is often underrepresented in lightning research further adds to its scientific value, as it contributes unique insights to the field of atmospheric sciences.	

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<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>The manuscript references a range of sources pertinent to lightning activity and detection, including foundational works and studies specific to the African region.</p>	
<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The language quality of the article is generally suitable for scholarly communication, with a formal tone and appropriate technical vocabulary. However, there are a few areas that could benefit from refinement to enhance clarity and readability:</p> <ol style="list-style-type: none"> 1. Sentence Structure: Some sentences are lengthy and could be broken down for better comprehension. For example, in the introduction, combining multiple ideas in one sentence occasionally makes it harder to follow. 2. Terminology Consistency: The use of technical terms like "lightning strokes" and "lightning activity" is appropriate, but ensuring consistency throughout the manuscript will improve precision. 3. Grammatical Accuracy: While the grammar is mostly correct, there are occasional awkward phrasings. For instance, "...the activity at location D... keep increasing..." should be revised to "...the activity at location D... keeps increasing..." 4. Flow and Coherence: The transitions between sections, particularly in the "Results and Discussion," could be smoother. Using linking phrases to tie findings to their implications would enhance readability. 	
<p>Optional/General comments</p>		

PART 2:

	<p>Reviewer's comment</p>	<p>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>
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

Reviewer Details:

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<p>Department, University & Country</p>	<p>India</p>