

### Review Form 3

Journal Name:	<b>Journal of Geography, Environment and Earth Science International</b>
Manuscript Number:	<b>Ms_JGEESI_122836</b>
Title of the Manuscript:	<b>Probability Distribution Analysis of Annual Maximum Precipitation in the Niger Delta: A Critical Step Towards Effective Flood Risk Management.</b>
Type of the Article	<b>Original Research Article</b>

#### **General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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#### **Important Policies Regarding Peer Review**

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**PART 1: Review Comments**

<b>Compulsory</b> 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>
<p>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.</p>	<p>Flooding in the Niger Delta, particularly along major river basins like the Niger and Benue, is a perennial issue with devastating consequences. These floods have a significant impact on the region's socio-economic landscape, often resulting in widespread displacement, loss of life, and extensive damage to property and infrastructure. The study underscores the importance of tailored, city-specific flood management strategies in the Niger Delta to mitigate the impact of extreme rainfall events, particularly in the face of climate change.</p>	
<p><del>Is the title of the article suitable?</del> (If not please suggest an alternative title)</p>	<p>The title of the article is appropriate.</p>	
<p>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.</p>	<p>The summary of the article is comprehensive.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>Yes.</p>	
<p>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.</p>	<p>This study evaluates various probability distributions to represent annual maximum rainfall in the Niger Delta, addressing a critical research gap. By identifying the most suitable models, this research aims to enhance understanding of local rainfall patterns, ultimately informing decision-making processes for flood mitigation and water resource management in the region. This study's analysis of annual maximum precipitation in seven Niger Delta cities reveals significant spatial variability in rainfall patterns, emphasizing the need for location-specific approaches to hydrological modeling and flood risk management.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>35 references are quite enough</p>	
<p><u>Minor</u> REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Yes.</p>	
<p><u>Optional/General</u> comments</p>	<p>These results have profound implications for urban planning, infrastructure design, and water resource management in the Niger Delta, suggesting a one-size-fits-all approach would be inadequate. The study provides a foundation for more targeted and effective water management policies in the region.</p>	

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#### **PART 2:**

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

#### **Reviewer Details:**

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