

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_103072
Title of the Manuscript:	Impact of El-Nino and La-Nina episodes on rainfall variability and crop yield
Type of the Article	Review Article

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:

(<https://www.journalijecc.com/index.php/IJECC/editorial-policy>)

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PART 1: Review Comments

	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>
<p><u>Compulsory</u> 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>The paper entitled "Impact of El-Nino and La-Nina episodes on rainfall variability and crop yield" talks about a very important topic and is in line with the focus of the journal.</p> <p>The study titled "Impact of El-Nino and La-Nina episodes on rainfall variability and crop yield" explores the influence of El Nino and La Nina events on rainfall patterns and crop production. The abstract provides a concise overview of the research, outlining the impact of these climate phenomena on the Indian monsoon and the consequent effects on agricultural outcomes.</p> <p>The research highlights the correlation between El Nino and decreased rainfall during the south-west monsoon season, leading to moisture stress and lower crop yields in India. Conversely, La Nina years are associated with above-average rainfall, which can have a positive impact on crop production. The abstract also emphasizes the occurrence of rainfall variability and depressions over the Bay of Bengal during El Nino years, particularly in July and August.</p> <p>Overall, this study contributes to our understanding of the complex relationship between El Nino, La Nina, rainfall variability, and crop yield in the Indian context. By shedding light on the contrasting effects of these climatic phenomena, the research provides valuable insights for policymakers, farmers, and agricultural stakeholders in developing strategies to mitigate the risks associated with drought or excess rainfall.</p> <p>However, it is important to note that the abstract does not provide details about the methodology employed or the specific findings of the study. Therefore, a comprehensive evaluation of the research's significance and reliability would require a deeper analysis of the complete study.</p> <ol style="list-style-type: none"> 1. The title is suitable and clear 2. The abstract is comprehensive, well structured, and well written. 3. The paper is not structured as a review article, and here is suggested sections of a review article <ul style="list-style-type: none"> • Introduction: Provides an overview of the topic and its significance, establishes the research question or objective of the review, and outlines the scope and organization of the article. • Methods: Describes the methodology used to select and analyze the literature. This section may include details about the search strategy, inclusion and exclusion criteria for studies, and any systematic review or meta-analysis methods employed. • Literature Review: Presents a comprehensive summary of the relevant literature. This section typically includes subsections or themes that group related studies together. The author synthesizes the findings, identifies trends, inconsistencies, and controversies, and may provide a critical analysis of the existing evidence. • Discussion: Expands upon the key findings from the literature review and offers interpretations, explanations, and implications. The author may identify research gaps, propose theories or models, discuss limitations of the existing studies, and suggest areas for future research. • Conclusion: Summarizes the main points and key takeaways from the review. It may restate the research question or objective, highlight the significance of the findings, and provide a closing remark or call to action. • References: Lists all the sources cited in the review article following the appropriate citation 	

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	style 4. References are sufficient but too old 5. Scientifically the manuscript talks about an important topic but must be rewritten.	
Minor REVISION comments 1. Is language/English quality of the article suitable for scholarly communications?	Yes, it is suitable	
Optional/General comments	///	

PART 2:

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

Reviewer Details:

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