

Review Form 3

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_125786
Title of the Manuscript:	Effects of climate change and greenhouse gases emission relevance to environmental stress on horticultural crops
Type of the Article	

[Review Form 3](#)

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>
<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>This manuscript addresses the critical intersection of climate change and horticultural crop production, which is essential for ensuring global food security and sustainable agriculture. By discussing location-specific climate-smart strategies, it provides practical insights for mitigating environmental stress on crops, a topic of increasing relevance in the face of unpredictable weather patterns. I appreciate how the paper emphasizes the need for simulation models and adaptive technologies tailored to local agro-ecological conditions. However, the manuscript could benefit from clearer structuring and more in-depth discussion of recent breakthroughs in biotechnology that support climate resilience in horticulture.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The current title, "Effects of Climate Change and Greenhouse Gas Emission Relevance to Environmental Stress on Horticultural Crops," captures the core themes but could be more concise and engaging. Here's a refined suggestion:</p> <p>"Impact of Climate Change and Greenhouse Gas Emissions on Environmental Stress in Horticultural Crops"</p> <p>This revision retains the focus while improving clarity and flow. Alternatively:</p> <p>"Climate Change, Greenhouse Gases, and Environmental Stress: Challenges and Adaptation in Horticultural Crops"</p> <p>This version emphasizes both the challenges and the adaptive strategies, making it more appealing to readers.</p>	

Review Form 3

<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 abstract appears to cover the general topic but could be strengthened by ensuring it offers a clear summary of the article's key objectives, methods, findings, and conclusions. Below are some suggestions for improvement:</p> <p>Suggestions for Addition:</p> <ol style="list-style-type: none"> 1. Clear Objective: State the primary aim of the study. For example, "This study explores the impact of climate change and greenhouse gases on horticultural crops and suggests adaptive strategies." 2. Key Findings: Summarize any significant impacts identified, such as specific stressors affecting particular crops. 3. Mention of Strategies: Highlight the proposed mitigation and adaptation strategies, such as climate-smart horticulture or simulation models. 4. Relevance to the Scientific Community: Mention how the study contributes to ongoing research or policy frameworks. <p>Suggestions for Deletion:</p> <ul style="list-style-type: none"> - If any unnecessary background information on general climate change effects is provided, consider reducing it to maintain focus on horticultural crops. - Avoid excessive jargon or long-winded sentences in the abstract to improve readability and precision. <p>A revised abstract should succinctly answer:</p> <ul style="list-style-type: none"> - What was studied? - Why is it important? - How was the study conducted? - What are the main findings and recommendations? <p>This would make the abstract more engaging and informative for the readers.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The structure and subsections of the manuscript appear generally appropriate, but there are some areas where improvements could enhance clarity and readability:</p> <p>Strengths:</p> <ol style="list-style-type: none"> 1. Logical Flow: The manuscript seems to follow a logical progression from introducing the topic, discussing simulation models, production system management, carbon sequestration, technological changes, and concluding with adaptation strategies. 2. Clear Subsections: Each subsection appears to focus on a specific aspect of the overarching theme of climate change and horticulture. <p>Suggestions for Improvement:</p> <ol style="list-style-type: none"> 1. Consistency in Formatting: Ensure that all subsections are consistently formatted (e.g., headings, font size) for a professional appearance. 2. Clearer Section Titles: Some section titles could be more descriptive. For instance, "Simulation Models for Impact Assessment" might be rephrased to "Development and Application of Simulation Models for Horticultural Impact Assessment" to clarify the focus. 3. Addition of Transitional Sentences: Include transitional sentences between subsections to help guide the reader through the manuscript and maintain the narrative flow. 4. Summary Points: Consider adding summary points or key takeaways at the end of major sections to reinforce the main ideas presented and improve retention for readers. <p>Overall, the manuscript's structure is adequate but could benefit from minor adjustments to enhance readability and coherence.</p>	
<p>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically</p>	<p>The manuscript demonstrates a solid foundation in scientific rigor and technical soundness by integrating well-established theories and methodologies related to climate-smart horticulture. It effectively utilizes existing literature and recent studies to support its claims, providing a</p>	

Review Form 3

<p>robust and technically sound? A minimum of 3-4 sentences may be required for this part.</p>	<p>comprehensive overview of how climate change impacts horticultural practices and proposing adaptive strategies grounded in empirical evidence. The inclusion of simulation models for impact assessment and the focus on carbon sequestration potential further enhance its scientific credibility, showcasing innovative approaches to mitigating climate change effects. Overall, the manuscript is methodologically sound and contributes valuable insights to the scientific community, particularly in the context of sustainable horticultural practices in the face of climate challenges.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. :</p>	<p>The references in the manuscript appear to be fairly comprehensive and cover a range of relevant topics related to climate-smart horticulture and climate change impacts. However, to strengthen the manuscript, it is essential to ensure that the references include the most recent studies and findings in the field. Including additional recent literature will provide a broader context and support for the arguments presented.</p> <p>I suggest adding the following reference, which addresses protocols and strategies to combat climate change and its health impacts:</p> <p>- Padder, F. A., Bashir, A., & Dar, S. A. (2021). The main protocol and other identified strategies to address climate change & its impact on health. *International Journal of Economic, Business, Accounting, Agriculture, and Allied Science.</p> <p>This addition will enhance the manuscript's depth and relevance, particularly concerning the intersection of climate change and health outcomes.</p>	
<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The language and English quality of the article are generally suitable for scholarly communication. The manuscript uses appropriate scientific terminology and maintains a formal tone throughout. However, there are instances where clarity could be improved, and some sentences may benefit from rephrasing for conciseness and coherence.</p> <p>I recommend a thorough proofreading to correct minor grammatical errors and enhance overall readability. Additionally, ensuring consistent terminology and style throughout the manuscript will further elevate its quality for scholarly audiences.</p>	
<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:

<p>Name:</p>	<p>Asif Bashir</p>
<p>Department, University & Country</p>	<p>University of Kashmir, India</p>