

Review Form 1.7

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| Journal Name: | Asian Journal of Fisheries and Aquatic Research |
| Manuscript Number: | Ms_AJFAR_112353 |
| Title of the Manuscript: | Vulnerability level of Selected Aquaculture Producing countries to Climate Change. |
| Type of the Article | |

Review Form 1.7

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) |
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| <p>Compulsory REVISION comments</p> <ol style="list-style-type: none"> Is the manuscript important for scientific community? (Please write few sentences on this manuscript) Is the title of the article suitable? (If not please suggest an alternative title) Is the abstract of the article comprehensive? Are subsections and structure of the manuscript appropriate? Do you think the manuscript is scientifically correct? Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p> | <p>Revised Title: "Assessing Climate Change Vulnerability in Key Aquaculture Producers: UK, USA, and Nigeria"</p> | |
| <p>Minor REVISION comments</p> <ol style="list-style-type: none"> Is language/English quality of the article suitable for scholarly communications? | | |
| <p>Optional/General comments</p> | <p><i>The report makes good use of external references (Adeleke et al., Lam et al., Sandersen et al., Stewart-Sinclair et al., FAO, Callaway et al., Murray et al., Breitburg et al., Barange et al., Aljazeera) to support its findings. This enhances the credibility of the presented information.</i></p> <p>The report covers exposure, productivity, and emissions indices, providing a well-rounded assessment of vulnerability. This comprehensive approach aids in understanding the multi-faceted impact of climate change on aquaculture.</p> <p>By comparing vulnerability indices across continents and individual countries, the report provides a global perspective. This allows for a nuanced understanding of vulnerabilities in different regions. Linking the findings to existing studies and reports (FAO, Aljazeera, Breitburg et al.) strengthens the report by aligning it with established research and knowledge.</p> <p>The materials and methods section provides a sound framework for assessing climate change vulnerability in aquaculture-producing countries. The selection of parameters, normalization processes, and the incorporation of GDP in the climate change risk calculation demonstrate a thoughtful approach. Providing more details on the normalization process, justifying parameter selection, addressing the temporal aspect, validating parameters with external research, and explicitly mentioning data sources would further strengthen the methodology. Overall, the study has the potential to contribute valuable insights into the climate vulnerability of aquaculture on a global scale.</p> <p>The report would benefit from providing more details on the methodology used for vulnerability assessment. Clear methodologies enhance the credibility of the findings and allow for a better understanding of the study's robustness.</p> <p>Future Projections: Including projections or scenarios for future climate change impacts and their potential effects on aquaculture could enhance the report. This would provide a forward-looking</p> | |

Review Form 1.7

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| | <p>perspective, aiding in long-term planning and adaptation.</p> <p>Policy Recommendations: While the report highlights the vulnerability of certain nations and regions, it could be strengthened by suggesting specific policy recommendations or adaptation strategies. This would make the study more actionable for policymakers and industry stakeholders. The report effectively highlights the vulnerability of key aquaculture-producing nations to climate change and emphasizes the need for strict measures to ensure the industry's sustainability and global food security. To enhance the report's impact, addressing areas for consideration, such as providing a detailed methodology and offering specific policy recommendations, would be beneficial. Overall, the study provides valuable insights into the challenges faced by the aquaculture industry in the context of climate change.</p> <p>While the report discusses vulnerabilities, it could be strengthened by including specific policy recommendations or adaptation strategies. This would provide a more actionable guide for policymakers and industry stakeholders.</p> <p>Considering future climate change scenarios and their potential impacts on aquaculture could strengthen the report's relevance. Providing insights into long-term projections helps in planning adaptive measures effectively.</p> <p>While sensitivity values are presented, there could be further discussion or interpretation of why certain countries or continents exhibit higher sensitivity in aquaculture productivity. results cover the period from 1991 to 2021, but the report lacks discussion on temporal trends. Examining how vulnerability, risk, and other indices have changed over time would be beneficial. The results section effectively communicates a detailed analysis of aquaculture water use, climate change indices, vulnerability, risk, and sensitivity values for various countries and continents. Clear visuals and organized tables facilitate understanding. Addressing the mentioned areas for consideration, especially regarding units, interpretation of sensitivity values, justification for initiator values, consideration of temporal trends, and providing explicit data sources, would strengthen the overall impact and credibility of the study.</p> <p>The report effectively communicates the vulnerability of aquaculture-producing countries, emphasizing the significant risks faced by the UK, USA, and Nigeria. The inclusion of external references and a global perspective adds depth to the analysis. However, providing more details on the methodology, suggesting specific policy implications, considering future projections, and including visual representations would further enhance the report's overall impact and utility. The call for timely and concerted efforts to address vulnerabilities aligns with the urgency of climate change mitigation and adaptation.</p> <p style="text-align: center;">This paper may be considered for acceptance.</p> | |
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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) |
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| 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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