

Review Form 3

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| Journal Name: | International Journal of Environment and Climate Change |
| Manuscript Number: | Ms_IJECC_124405 |
| Title of the Manuscript: | Projected Changes in Potential Evapotranspiration for India and Karnataka: A Jensen-Haise Method Analysis |
| Type of the Article | Research Paper (Applied) |

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> |
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| 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 essential to identify the significant factors contributing to changes in India and Karnataka under climate change to reveal abrupt variations in hydro-climatic variables by employing Mann-Kendall test analysis to determine the direction of temporal changes. | |
| Is the title of the article suitable? (If not please suggest an alternative title) | Rewrite (Projected Spatial-Temporal Trend of Potential Evapotranspiration under Impact of Climate Change: Case Study (India and Karnataka)) | |
| 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. | Not comprehensive. It is preferable to limit the discussion to general strategies and mention a simple detail about the Jensen-Haise Method Analysis, which is used to calculate PET. | |
| Are subsections and structure of the manuscript appropriate? | No. It is preferable that the second part of the subsections include a detailed explanation of the study area and the statistical methodology used to evaluate the trend of PET. | |
| 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. | The manuscript needs to be scientifically strengthened. A Jensen-Haise method that solves the problem of calculating the amount of PET is needed. Because the method used for calculation is empirical, it must be supported by software that facilitates the simulation of gravity and the calculation of evaporation amounts under the influence of climate change. | |
| Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. - | The research needs modern references to support its introduction, as most of the existing sources are old, and not all of the research applies the existing method. The references used for citation are generally old and need to fit the modernity of modern research. | |

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| Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications? | Need Some Improvement | |
| Optional/General comments | <ul style="list-style-type: none">○ Why was the CMIP5 climate change model used instead of the CMIP6 despite the change that occurred within the concentration of gas emissions (SSPs)?○ Was the climate data statistically downscaled as it was not addressed in this regard?○ Is the research related to the complete work study that should be referred to? <p>The research needs additional amendments, as mentioned in the previous section, to increase its evaluation. The results are not discussed within the discussion paragraph, as the researcher only presented a presentation of the results and needs a detailed discussion</p> | |

PART 2:

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| | 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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| Department, University & Country | College of Engineering, Al-Qasim Green University, Iraq |