|  |
| --- |
|  |
| Book Name: | [**Engineering Research: Perspectives on Recent Advances**](https://www.bookpi.org/bookstore/product/engineering-research-perspectives-on-recent-advances-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4303** |
| Title of the Manuscript:  | **SPATIAL AND TEMPORAL VARIATION OF ETO FOR EGYPT USING REMOTE SENSING** |
| Type of the Article | **Book Chapter** |

|  |
| --- |
| PART 1: Comments |
|  | Reviewer’s comment | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **This manuscript is crucial for sustainable agricultural development in Egypt, where water scarcity poses a challenge to expansion. By calculating reference evapotranspiration (ETo) across the country, it provides key data for estimating irrigation needs and identifying suitable areas for cultivation. The use of the FAO Penman-Monteith equation and GIS mapping enhances the accuracy of these water consumption estimates, supporting more informed and efficient agricultural planning.** |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **Assessing Spatial and Temporal Variations of ETo Across Egypt Using Remote Sensing** |  |
| 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. | * **Briefly mention the water scarcity challenge in relation to Egypt's agricultural expansion.**
* **Include a note on how remote sensing contributes to data collection for ETo estimation.**
* **Add a line about how the results can inform sustainable agricultural planning.**
 |  |
| **Is the manuscript scientifically, correct? Please write here.**  | **Methodology could also be shown as a flow chart.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **The references are useful but could be updated. Adding more recent studies from the last 5-10 years on solar radiation models and validation would strengthen the manuscript** **and research focused on similar regions would enhance its relevance and comprehensiveness.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | **Seems good and suitable for scholarly communication** |  |
| 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?**  | *(If yes, Kindly please write down the ethical issues here in details)* |  |

|  |
| --- |
| **Reviewer Details:** |
| Name: | **Shahnawaz Memon** |
| Department, University & Country | **Pakistan Council of Research in Water Resources, Pakistan** |