

Review of: "Spatio-Temporal Analysis of Precipitation Patterns in Xinjiang Using TRMM Data and Spatial Interpolation Methods: A Comparative Study"

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Potential competing interests: No potential competing interests to declare.

1. In the Abstract, the evaluation criteria of the interpolation methods should be indicated.
2. The introduction does not have adequate review of studies on validation of alternative rainfall products, methods and key results.
3. In section 2.1.2, the 42 stations used should at least be shown on a map.
4. In Section 2.2.1, justify the choice of the 4 interpolation methods and the assessment criteria with references.
5. In Table 2, each assessment criteria need the threshold for poor, good or excellent performance.
6. Equation 1 need to be unpacked as to what each of the symbols represent and the significance level. if any.
7. Each method choses need to be justified.
8. The results in Section 3.1 need to be discussed with reference to other studies. In addition, most parts of the paper needs similar discussions.
9. In Section 3.1, graphs showing the average rainfall regimes of the Observed and TRMN data can be more informing (i.e. Graphs showing monthly averages during the period).
10. In Table 4, the results for RBF, IDW, OK look similar and I do not see the reason why only IDW is being selected as the best.
11. Figure 3 should show the Observed spatial means as well.
12. the legend in Figure 3 and others contains Chinese characters. In addition, some of the legends are not clear.
13. In section 3.3, it is not clear whether the results are for Observed or TRNM.
14. In conclusion, 1 should swap places with 2.