

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.

The paper is important study on interpolation techniques over the Region of interest. But there are few comments:

1. In all Figures and figure captions, kindly write in English language for wider audience.
2. Since this paper is basically a paper finding the best interpolation technique, the codes of interpolation techniques with sample data should be provided in a repository.
3. In radial basis function method, G is the monotonic function of the Euclidean distance. Kindly show in figures, how do you calculate it.
4. In the Data section, provide the source of data of the 42 meteorological stations in Xinjiang province, and the online link. Also provide and cite TRMM 3B43 V7 data source. Acknowledge the proper source of data.
5. The authors claim that -"Findings indicate that the inverse distance weighting method, yields the most accurate results". Annual mean is ok, but in monthly mean case the evaluation co-efficient shows almost similar values. Since this is a long time series from 1998 to 2019, kindly do a month wise analysis (i.e. all Jan, all Feb.....al Dec, from 1998 to 2019.) Sample size is 21, hence for significance of correlation use non-parametric test. In this way the results can be used for seasonal analysis and would benefit water resource community also.
6. The paper can be accepted only after redoing the corrections.