

# 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. Need to revise the introduction
2. please change all legends of figures in to English
3. Need more information about TRMM 3B43\_V7 data
4. add some latest references in statistical matrices like:

Abro, M.I. et al. (2019) 'Hydrological appraisal of rainfall estimates from radar, satellite, raingauge and satellite–gauge combination on the Qinhuai River Basin, China', *Hydrological Sciences Journal*, VOL. 64(16), pp. 1957–1971.

Available at: <https://doi.org/10.1080/02626667.2018.1557335>.

Abro, Ilyas et al. (2021) 'Multi sources hydrological assessment over Vu Gia Thu Bon Basin, Vietnam', *Hydrological Sciences Journal*, 66(8), pp. 1383–1392. Available at: <https://doi.org/10.1080/02626667.2021.1935964>.

5. Give latest reference in Mann-Kendal test like:

Akpovi, B.A. et al. (2022) 'Hydrological appraisal using multi - source rainfall data in PDM model over the Qinhuai River basin in China', *Arabian Journal of Geosciences*, 15:236, pp. 1–14. Available at: <https://doi.org/10.1007/s12517-022-09545-x>.

Ahmad, I. et al. (2018) 'Spatiotemporal analysis of precipitation variability in annual, seasonal and extreme values over upper Indus River basin', *Atmospheric Research*. Elsevier B.V, 213, pp. 346–360. doi: 10.1016/j.atmosres.2018.06.019.

Bhatti, A. S. et al. (2020) 'Trend in Extreme Precipitation Indices Based on Long Term In Situ Precipitation Records over Pakistan', *water*, 12(797). doi: 10.3390/w12030797.

6. TRMM data accuracy validation analysis

it looks TRMM slightly overestimate station data, give some references as well like:

Abro, M.I., Wei, M., et al. (2020) 'Hydrological evaluation of satellite and reanalysis precipitation products in the glacier-fed river basin (Gilgit)', *Arabian Journal of Geosciences*, 13, p. 631. Available at: <https://doi.org/10.1007/s12517-020-05621-2>.

Abro, M.I., Zhu, D., et al. (2020) 'Statistical and qualitative evaluation of multi-sources for hydrological suitability inflood-

prone areas of Pakistan', Journal of Hydrology, 588. Available at: <https://doi.org/10.1016/j.jhydrol.2020.125117>.

7. Need to add latest references in all result and discussion section to strengthen the results.

8. have not seen Mann-Kendal test results.

9. Also need to improve conclusion section as well