

## ***Interactive comment on “Probing on suitability of TRMM data to explain spatio-temporal pattern of severe storms in tropic region” by A. Akbari et al.***

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Thank you for your interest to comment on our paper. For more clarification the following notes are provided: 1-We came out with massive achievement in this research and this is only part of it and the rest will be published soon. 2-Scientific work should not necessarily do via the complicated analysis. It is more important to be problem oriented and applicable in other similar regions. Although we have used the advanced and novel techniques for kriging interpolation. 3-As we know satellite data are sensitive to the regions because the satellite signals passing through the atmosphere and therefore depend on the climate condition the behavior might be different. As example Bitew and Gebremichael (2010) evaluated the performance of in a complex terrain and

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humid tropical region in Ethiopia, using an event rain gauge network . Results reveal that TRMM tend to underestimate heavy events by about 50% but as mention in the paper we found out that TRMM tend to underestimate heavy events by about 35% in Klang watershed. 4-In Malaysia no one has conducted event-base analysis of TRMM data. however Varikoden (2010; 2011) have been conducted the seasonal and diurnal variation of rainfall characteristics in different intensity classes using ground data and TRMM data over Peninsular Malaysia. 5-we have made some revisions on the paper based on the other referee. Bitew, M. M. and M. Gebremichael (2010). Evaluation Through Independent Measurements: Complex Terrain and Humid Tropical Region in Ethiopia. Satellite Rainfall Applications for Surface Hydrology. M. Gebremichael and F. Hossain. New York, Springer Science+Business Media B.V: p.205-217. Varikoden, H., P. B, et al. (2011). "Seasonal variation of rainfall characteristics in different intensity classes over Peninsular Malaysia." Journal of Hydrology 404(1-2): 9.

Varikoden, H., A. A. Samah, et al. (2010). "Spatial and temporal characteristics of rain intensity in the peninsular Malaysia using TRMM rain rate." Journal of Hydrology 387: 8.

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