

***Interactive comment on “Precipitation
downscaling using a probability-matching
approach and geostationary infrared data: An
evaluation over six climate regions” by
Ruifang Guo et al.***

Anonymous Referee #1

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here are my comments:

p1111: "proposed" better present tense?

p212: which challenges and problems?

fig1: c is unclear what can be seen there

p3119ff: the matching is not described, what means matching how is it done? Formula?
Is that Quantile mapping?

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p4l11: ..behind [the] downscaling..

p4l28ff: sentence is unclear, what is a non-raining frequency?

p5l20 and p6l2: A variogram

p5l21: (Matheron,..)

comment: Chapter 2.3 and 2.4 also fig 3, tab.1 are well know scores and techniques maybe you skip them.

Fig4: please exclude the islands with climate situations 8 and 9 from the map. the status of these territories are unclear.

Fig5: is again a processing scheme, maybe it is better to make one out of fig2 and fig5, if you change the order of chapter 2 and 3 you can combine chapters 3.3 and 2.2

p7: I found to much information in chapter 3.2.2 maybe you short it and only refer to the 2 or 3 most important references.

p8l15: [the] imagedefinitely needs language editing

fig7: inscribe, which picture is cmorph data and which dcdf, and which picture belongs to which region, maybe confusing or unclear for the reader.

p9l7ff: please write sill, range when necessary instead of d and c+c0

p9-10l32ff: Fig 10, according to the shown events the conclusion is not significant, the better fit of dcdf at gauge scale may be pure luck.

p10l11ff: the bad performance of the approach in winter was something i except reading your methods. How are the correlations between tb and rain in teh winter months?

p10l13: rain-no-rain threshold , where is this threshold defined? how large is threshold?

p10l15: what is meant by complex rain systems?

p12l3f: I don't agree with that. the method has problems with, heavy rain (cold, tall

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clouds), with complex rain systems? and in winter

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