

## Letter to Editor: Submission of revised manuscript

Dear Editor,

Thank you for providing us the opportunity to revise the manuscript. We thank the three anonymous reviewers for their constructive comments and positive assessment of our work. We have tried to incorporate the feedbacks from the referees and believe that the manuscript is improved after these changes. Most of the referee's suggestions were directed towards adding discussion about the relevant aspects which was missing from the older version which are now added.

In the following, we have summarised the changes made in the manuscript. A point-by-point response to referee's comments was already uploaded as "Responses to referee comments".

### Changes made:

- Monthly temperatures were used in timeseries comparison and regression plot which made things unclear and created confusion. We have now modified all the sub-plots in figure 2 for daily temperatures. (Commented by all the referees)

### Based on Referee 1 Comments:

- Discussion is added about the lower "clear-sky" temperatures over Northern Himalayan regions. Lines added in final manuscript: 236 – 240.
- Observation based cloud cover map was added in Appendix C (Figure C1).
- Implication for the future prediction of extreme precipitation based on the monotonical P-T relationship is added in lines: 344-346.
- Symbols for figure 1 are made consistent with symbols used in text
- Figure A1 is modified and "all-sky" scaling (red) is included.
- All other minor comments are corrected.

### Based on Referee 2 Comments:

- Discussion about the possible causes for the negative scaling obtained with "clear-sky" temperatures over South India is now added. Lines added in final manuscript: 323 – 337.
- Discussion about the role of seasonality is added. Lines added in final manuscript: 338 – 342.
- Discussion is added in section 4 about the factors that could influence the scaling and their deviations from CC rates (7%/K). Lines added in final manuscript: 370 – 377.

### Based on Referee 3 Comments:

- Discussion is added about the minor difference between the clear sky scaling in IMD and TRMM in foothill of Himalayas north of India. Lines added in final manuscript: 320 – 322.
- Line 57, 64, 83 of the previous manuscript are revised as per referee's suggestion.

We think that we have adequately addressed the concerns raised by the reviewers and hope that you find the manuscript acceptable for publication. As corresponding author, I confirm that manuscript has been read and approved by all the co-authors.

Thank you for your consideration.  
Sincerely,

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