

Dear authors,

In my opinion all major concerns have been addressed well in the revision. I am delighted to see that, in response to reviewers, several parts were extended to discuss important results in more depth than in the initial version (the brevity was an initial criticism of me).

I'd like to briefly comment on the only "major" point, which is the precipitation response per degree warming. There seems to be some confusion in the discussion: the 7%/K from CC scaling refer to "moisture holding capacity" of the air, or precisely speaking, saturation water vapor pressure (i.e., NOT precipitation) - at the global scale of the system. Actually I am glad to see that the precip. change in your study is smaller than the 7%/K, because that is what is expected from theory. And, at the regional scale there can be pronounced circulation changes. Hence, there are good reasons for regional precipitation changes, especially in rather dry regions, to be clearly smaller than 7%/K. I refer to the great work of Isaac Held and Brian Soden (multiple papers) in this regard. But your Trenberth reference can also be used as support of my statements.

I invite you to go through your text changes, which were introduced during the revision for this point, one last time carefully. They should NOT express that regional precipitation change is always expected to follow the 7%/K. Thus, at least revise the paragraph starting in line 346 accordingly. Trenberth et al. (2003) clearly state that the 7%/K refer to moisture holding capacity (see my comments above), and only in case of heavy rain rates a similar value to CC scaling should be expected for precipitation.

After this final check and revision, the paper will be in a good position for publication.

Best wishes,  
Thomas Mölg

Handling Editor &  
Co-Editor-In-Chief TC

Dear Thomas Mölg,

Thank you for your comment!

We understand your concern and agree with you. We have added a sentence to the end of the paragraph.

Best regards,

Fredrik