

Clim. Past Discuss., referee comment RC1
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Comment on cp-2021-129

Anonymous Referee #1

Referee comment on "Simulated range of mid-Holocene precipitation changes from extended lakes and wetlands over North Africa" by Nora Farina Specht et al., Clim. Past Discuss., <https://doi.org/10.5194/cp-2021-129-RC1>, 2021

Dear Dr. Yin,

Thanks very much for assigning me to review this manuscript entitled "*Simulated range of mid-Holocene precipitation changes to extended lakes and wetlands over North Africa*". The authors analyze the distinct responses of mid-Holocene precipitation to prescribe several surface boundaries conditions. Overall, this paper very interesting and the logical is clear. From my understanding, moderate revisions are needed before its publication on this journal.

Comments on this manuscript:

For the method part,

The authors should give more details of "moisture budget analysis and its thermodynamic and dynamic decompositions" used in this study, because not every reader is a good at dynamics.

For the result part,

- Please give one more Fig2b in the Fig2 which is related to "evaporation" responses, in

order to support the authors statement "P4L108-110"

- Please use "local evaporation" instead of "direct evaporation" (P5L123)
- Please take care the statement (P5L125). Indeed was neglected in Seager et al. 2010.
- Please check the order of the Fig.3 and Fig.4, I am afraid the fig.3 should have appeared in some place prior to Fig.4.
- If possible, please add the extent of change in each experiment so that it will Convery a very clear picture for the reader.
- Typo error, ITZC L149
- Please add the horizontal circulation changes in each subplot of Figure 4 to support your statements P6L133-134