

Hydrol. Earth Syst. Sci. Discuss., referee comment RC2
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Comment on hess-2021-390

Adane Zablon (Referee)

Referee comment on "Modelling groundwater recharge, actual evaporation and transpiration in semi-arid sites of the Lake Chad Basin: The role of soil and vegetation on groundwater recharge" by Christoph Neukum et al., Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2021-390-RC2>, 2021

The article provides valuable insight on water balance to a geographic area with limited data. That said, minor comments include that the manuscript can be improved by correcting some spellings, grammatical errors, and technical language.

Major comments include that the chloride concentration input variability in time and space is not very well explained. This has implications on the recharge values, partitioning, and other water balance components. The manuscript can also delve more into uncertainty and statistical analysis in the discussion section and go beyond comparison with only Tewelde et al. 2019.

Other comments are included in the edited PDF.

Please also note the supplement to this comment:

<https://hess.copernicus.org/preprints/hess-2021-390/hess-2021-390-RC2-supplement.pdf>