Hydrology and Earth System Sciences Discussions

Hydrol. Earth Syst. Sci. Discuss., author comment AC2
https://doi.org/10.5194/hess-2022-257-AC2, 2022
© Author(s) 2022. This work is distributed under
the Creative Commons Attribution 4.0 License.

Reply on RC1

Tuvia Turkeltaub and Golan Bel

Author comment on "The effects of rain and evapotranspiration statistics on groundwater recharge estimations for semi-arid environments" by Tuvia Turkeltaub and Golan Bel, Hydrol. Earth Syst. Sci. Discuss., https://doi.org/10.5194/hess-2022-257-AC2, 2022

Dear Reviewer,

Thank you for the positive assessment of our MS and for your helpful comments.

Reply to general comment 1:
Indeed, the work is limited to homogeneous soil, and the important effects of heterogeneity are not accounted for. However, as you mentioned, this work focus on the effects of the climate conditions synthesis methods on the simulated groundwater recharge. We felt that adding the complexity of heterogeneity would overload the MS. In future studies, we will address the effects of heterogeneity in similar scenarios and in multiple semi-arid locations worldwide.

Reply to specific comment 1:

Thank you for finding our typo with the reference in lines 28-29. We corrected it in the revised MS.