

Hydrol. Earth Syst. Sci. Discuss., referee comment RC2
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Comment on hess-2021-568

Anonymous Referee #2

Referee comment on "Spatiotemporal responses in crop water footprint and benchmark under different irrigation techniques to climate change scenarios in China" by Zhiwei Yue et al., Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2021-568-RC2>, 2022

The paper is interesting for the wide area it involves and the relevance of the area for corn and wheat production, despite results and methods are not totally novel

Specific comments:

It's not clear how irrigation techniques scenario are managed in the analysis. Are the actual techniques implemented when baseline year was determined? And what about future scenarios? Are techniques assumed considering the actual feasibility of the territory?

L. 148 "using temperature inputs and the Penman-Monteith method". Penman-Monteith equation requires solar radiation, wind speed, relative humidity, and pressure in order to compute potential evapotranspiration (PET). Can you clarify how you computed PET?

I am not an English native speaker but I think there's need to make the manuscript be checked for English grammar.