Hydrol. Earth Syst. Sci. Discuss.,
https://doi.org/10.5194/hess-2018-127-RC1, 2018

Hydrology and Earth System Sciences
Discussions

Interactive comment on "Modeling Lake Titicaca Daily and Monthly Evaporation" *by* Ramiro Pillco Zolá et al.

Anonymous Referee #1

Received and published: 2 July 2018

This paper titled "Modeling Lake Titicaca Daily and Monthly Evaporation" basically deals with a critical subject that is of interest to many water scientists, namely evaporation in lakes. The authors comes up with comparing different methods to calculate daily and monthly evaporation from Lake Titicaca, to improve evaporation loss estimations. The idea and structure of this paper are clear, but there no innovative findings compared to previous studies in this paper. And I recommend this paper until the authors address some problems as follows.

Major comments: Abstracts: ïČŸThe abstract part should show the essence of the paper, including the significance of this research, methods used and conclusions. However, the authors paid too much attention to the research results while ignoring the data source and the significance of this paper. I suggest the authors add the content

I mentioned above in the abstract. Introduction: ïČŸThe introduction part is basically organized well. However, the methods or the models are ignored in this section, additional information on the theoretical background would be useful here. I suggest moving 3.1 section here. Methods: ïČŸIn this part, the authors pay too much attention to theoretical background, in my opinion, basic introduction and literature about the Theoretical background should be removed to introduction part. ïČŸFour evaporation estimation methods were applied in this study, water balance, energy balance, mass transfer, and the Penman method, I think the authors could add a reference for the equations. Conclusions: ïČŸIn the conclusion part, it would be more comprehensive and clear for the authors to conclude the significance as well as the limitation of the research, and with stating the limitations of this research, the suggested research direction for continued studies could be given at the end of this part. Minor comments: ïČŸPlease check the units throughout the paper. ïČŸPlease write the first occurrence of acronyms in full letters. ïČŸPlease check the references throughout the paper, the references exist in inconsistent or incomplete formats.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., https://doi.org/10.5194/hess-2018-127, 2018.