Hydrol. Earth Syst. Sci. Discuss.,
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Hydrology and Earth System Sciences
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Interactive comment on "Reservoir evaporation in a Mediterranean climate: Comparing direct methods in Alqueva Reservoir, Portugal" *by* Carlos Miranda Rodrigues et al.

Anonymous Referee #2

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The authors analyze the relationship between Pan evaporation and EC evaporation at Alqueva Reservoir. The modelled pan coefficient was estimated to be 0.59, 0.57, 0.57, and 0.64 in June, July, August, and September, respectively. The developed pan coefficient function was further validated for the same period in 2017. This study is useful to estimate evaporation at Alqueva Reservoir based on pan measurement. As far as my knowledge, I think the submission is worthy of being published in HESS after a minor revision. Some major comments are listed as the following: Line 10-12, What is the difference of EC evaporation and modeled evaporation? Same to Line 15. Line 28 and line 90, hm and ha are not common units. Line 70, Why the relationship between pan evaporation and lake evaporation must be a function of meteorological

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parameters? In fact, lake heat storage is also a main factor of the difference between pan evaporation and lake evaporation Line 81, Can the pan coefficient function in June to September is be used to other months? Line 144-145, What is the theoretical basis? Line 150-156, The expression is not clear enough, please address it in more detail. Fig.8, it is difficult to differentiate the two curves. Please change the color. Section 4.4 is two simple and should be addressed in more detailed.

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