

Hydrol. Earth Syst. Sci. Discuss., referee comment RC2
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Comment on hess-2022-345

Keith Beven (Referee)

Referee comment on "Using simulation-based inference to determine the parameters of an integrated hydrologic model: a case study from the upper Colorado River basin" by Robert Hull et al., Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2022-345-RC2>, 2022

P.S. As a further thought, I would consider it important that in a 2nd part of the paper, the application included parameters from the CLM (so as not to fix the water balance for PAR-FLOW before running the procedure outlined in this paper) and also included multiple years so that variations in the onset of snowmelt and the impacts of year to year variations in albedo on the simulations were allowed. It is important to consider what realistic purpose the model would be used for in such a study (see our recent papers on model invalidation in Hydrological Processes).