

Earth Syst. Sci. Data Discuss., community comment CC1  
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## Definition of a day

Jan Seibert

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Community comment on "CAMELS-AUS: hydrometeorological time series and landscape attributes for 222 catchments in Australia" by Keirnan J. A. Fowler et al., Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2020-228-CC1>, 2021

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First of all, thanks to the authors for making this valuable data set available!

Secondly, I want to make two points related to a specific aspect of the data set, namely the definition of hydrological and climatological days. I appreciate that the authors raise this issue (section 3.5.2, P11, L293):

1) Honestly, I never thought that this could have much of an effect until our former PhD student Eduardo Reynolds demonstrated convincingly that I was wrong (see reference below)

2) As I understand, for some catchments the hydrological day is defined differently from 9am-9am. However, I am a bit unsure whether you in these cases adapted the climatological day? I fully agree that modellers should be aware of this as you write; to make this easier perhaps the definition of the hydro-day could be given as info in the attribute table (Table 3)

J. E. Reynolds, S. Halldin, J. Seibert & C. Y. Xu (2018) Definitions of climatological and discharge days: do they matter in hydrological modelling?, Hydrological Sciences Journal, 63:5, 836-844, DOI: 10.1080/02626667.2018.1451646

Best regards,

Jan