

Interactive comment on “Do small and large floods have the same drivers of change? A regional attribution analysis in Europe” by Miriam Bertola et al.

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Received and published: 7 September 2020

This is a very interesting study documenting the drivers of floods in Europe.

I have a small comment on line 195, about the use of 30-day antecedent rainfall. How are the results sensitive to the choice of this 30-day average ? With basin sizes ranging from 5 to 100 000 km², it is likely that 30-day antecedent rainfall is a rough approximation of the actual soil moisture conditions for this range of basin sizes. For very small basins, 30-day rainfall could be enough, but maybe larger accumulations periods could be more adapted for larger basins. Why not consider an API, as in Woldemeskel and Sharma (2016) ? The question behind my question is: do we under-estimate the

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effects of antecedent soil moisture by using only a 30-day antecedent rainfall ?

Woldemeskel, F., and Sharma, A. (2016), Should flood regimes change in a warming climate? The role of antecedent moisture conditions, *Geophys. Res. Lett.*, 43, 7556–7563, doi:10.1002/2016GL069448.

Note: line 65, Tramblay et al. 2013 is wrong, the correct reference is Tramblay et al., 2019 (<https://doi.org/10.5194/hess-23-4419-2019>).

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2020-396>, 2020.

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