

Hydrol. Earth Syst. Sci. Discuss., author comment AC6  
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## Reply on RC3

Gerardo Benito et al.

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Author comment on "Enhanced flood hazard assessment beyond decadal climate cycles based on centennial historical data (Duero basin, Spain)" by Gerardo Benito et al., Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2021-320-AC6>, 2021

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Dear Inês,

Thanks for the pdf of this very interesting study. I was aware of the values of the peak discharges estimated from historical flood marks, because there have been documented in unpublished reports by the Portuguese Water Authority, but I didn't know the source. I have included some values of the peak discharges, particularly for the 1739 flood, but because of the high differences in peak values, I would rather not to extend the discussion. I think there is potential for studies discussing these differences. Moreover, I noted that the frequency analysis performed by Silva and Olivera did not include the historical data, only the recorded period 1930-1950. It might be interesting to perform further analysis using the historical flood discharges based on realistic perception thresholds.

Attached is a pdf with the new changes including some of the Silva and Oliveira 2002 discharge data.

Please also note the supplement to this comment:

<https://hess.copernicus.org/preprints/hess-2021-320/hess-2021-320-AC6-supplement.pdf>