

Interactive comment on “Comparative assessment of predictions in ungauged basins – Part 2: Flood and low flow studies” by J. L. Salinas et al.

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We would like to thank the reviewer for her/his positive, constructive and very helpful comments on the manuscript. We have addressed the comments as follows

P418, L14-15: The authors agree. The catchment and climate attributes considered were a trade-off between what the authors of the original studies could provide, and the literature reports on which characteristics act as main controls of floods and low flow regimes. A couple of sentences will be included on this issue.

P418, L23-25: Yes, we agree with the reviewer. In response to this comment, a sentence making reference to the estimation variance of areal rainfall and the possible bias introduced due to the location of the rain gages will be included.

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P422, L9-11: Indeed, there is a mistake in the first sentence of the text, it should read: “The results for the flood regionalisation (Fig. 2, right panel) show that the predictions in humid regions exhibit the smallest errors and arid regions have the largest errors” Figure 2 is right, humid catchments present the smallest errors, as the errors are plotted upside down (reversed axis), in order to be consistent throughout the paper – increasing performance (decreasing error) is represented as the upward direction.

P422, L14-15: We agree. A sentence on particular examples of non-linearities will be included, Goodrich et al. (1997) is indeed a perfect reference.

P426, L21-24: The authors fully agree, intermittency is a perfectly valid explanation for the lower performances for low flows in drier regions and will be included in the discussion.

P428, L15-20: The authors agree with the reviewer that it will be very attractive research questions for future investigations, unfortunately the studied dataset is mostly concentrated on the intermediate-sized, humid catchments and a further stratification will decrease the significance of the results obtained. Also, in order to report the controls on the performances in a consistent way, and for the sake of clarity, the authors would prefer not to modify the figure contents.

Figures: We have revised the figure accordingly.

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