

Hydrol. Earth Syst. Sci. Discuss., author comment AC1  
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## Reply on RC1

Simon Ricard et al.

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Author comment on "Producing hydrologic scenarios from raw climate model outputs using an asynchronous modelling framework" by Simon Ricard et al., Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2021-451-AC1>, 2021

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We are pleased to read that reviewer 1 shares our views on the proposed framework. We also acknowledge the atypical structure of the manuscript that may not support the reader while searching for specific information. We are fully open to rewrite the document according to a more conventional structure as advocated.

More precisely, in the next version of the manuscript, Section 2 will present the domain and the data. Then, Section 3 will gather all information describing the 3 most relevant methodological elements: the modeling workflow, the hydrologic modelling setup, and the construction of hydrologic scenarios using quantile perturbation. An emphasis will put in further describing the modeling workflow, the calibration loop, and quantile perturbation. Finally, Section 4 will be dedicated to presenting the results.

Regarding specific comments given by reviewer 1, we will:

- Add the proposed reference at L44;
- Increase font size in Figure 1;
- Explain explicitly the period for which data were used at L123;
- Clarify the "ID station" notification;
- Correct the area unit superscript in Table 1;
- Explicitly describe the evapotranspiration formulation in L202;
- Explicitly describe P as the cumulative probability in Figure 7.