

Interactive comment on “Calibration of hydrological models for ecologically-relevant streamflow predictions: a trade-off between performance and consistency” by Thibault Hallouin et al.

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Dear Editor, Dear Reviewers,

We would like to thank you for your consideration of our manuscript and the careful review and feedback you provided us with. Please find attached a detailed point-by-point answer to the reviewers' comments. The main modifications in the revised manuscript include:

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- Highlighting that the SFCs used in the tailored objective functions have not yet proven to be ecologically-relevant for the study catchments, and renaming the tailored objective functions to remove the misleading subscript including specific species;
- Replacing the objective function on average flows by the KGE on square-rooted flows;
- Providing an additional analysis on the performance of the six objective functions on the individual components of the original KGE criterion, as well as on the individual SFCs contained in the tailored objective functions;
- An extended discussion section to refocus on the main results of the study and also to include the limitations of this one.

A revised version of the manuscript can be found right after the point-by-point answers at the end of the attached document.

Thibault Hallouin, on behalf of the co-authors.

Please also note the supplement to this comment:

<https://www.hydrol-earth-syst-sci-discuss.net/hess-2019-161/hess-2019-161-AC1-supplement.pdf>

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2019-161>, 2019.

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