

Interactive comment on “An Uncertainty Partition Approach for Inferring Interactive Hydrologic Risks” by Yurui Fan et al.

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Review

The paper is a thorough and deep stochastic study of a pair of high river flows and their extrapolation to design periods, deriving useful estimates of their accuracy and reliability, exploring a wide range of modelling possibilities.

I have been careful to suggest some cosmetic improvements to the text, although I confess to suffering some ‘symbol shock’ in section 2.4! I cannot fault the mathematics and am impressed by the depth of detail that the authors have gone to, in order to be absolutely sure that their deductions are sound. Although only two stations in China

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were used as exemplars, the methodology will be invaluable in regional assessments of catchments’ high flow characteristics.

I am uploading my detailed comments in the marked up version of the manuscript for the authors to address and leave it at that.

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Please also note the supplement to this comment:

<https://www.hydrol-earth-syst-sci-discuss.net/hess-2019-434/hess-2019-434-RC2-supplement.pdf>

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2019-434>, 2019.