

Interactive comment on “Future changes in flash flood frequency and intensity of the Tha Di River (Thailand) based on rainfall–runoff modeling and advanced delta change scaling” by S. Hilgert et al.

Anonymous Referee #1

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This is a paper concerning the potential impact of climate change on flood regime.

The paper deals with a case study in Thailand.

As a reviewer, it seems to me that it is one more of these very many case studies addressing the potential impact of climate change on flood regime, and which does not ask the question which is (from my point of view) essential: has the hydrological model a sufficient extrapolation capacity to serve the purpose that the authors have assigned to him?

The hydrological literature is full of examples showing that extrapolating can be prob-

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lematic, there is no reason why the hydrological model and the calibration procedure used here would not have similar problems. My point of view is that the MINIMUM should be to acknowledge this issue and to discuss its potential impact. It does not mean that the authors should satisfy themselves with the minimum... they could also check with differential split-sample tests (Klemes, 1986) to which extent this issue is important in their catchment.

References

Klemes, V.: Operational testing of hydrologic simulation models, *Hydrolog. Sci. J.*, 31, 13–24, 1986.

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