

Interactive comment on “Process-based karst modelling to relate hydrodynamic and hydrochemical characteristics to system properties” by A. Hartmann et al.

C. Stumpp (Editor)

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All reviewers posted their comments and rate the manuscript as very good to moderate revision required. The main points identified by the reviewers requiring improvement and more discussion or explanations are

- calibration of the model and uniqueness of parameter sets
- correlation of system parameters in general and using runoff yield rather than the water balance
- modification of the overall aim of the study

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- correctness of language and of specific hydrological or hydrogeological terms
- addition of critical discussion on number of catchments and chosen factors
- detailed description of the used modelling approach

Before preparing a revised version of the manuscript, I would like the authors to respond to the reviewer comments in detail.

Further, I would like to add two points to the discussion:

- 1) The length and the timing of the observation periods is different; please comment on the variability in these catchments and how the different observation times may influence the comparability of your catchments and the results of your study.
- 2) You defined ten system signatures. How did you chose them and are there others that might be of relevance but haven't been considered?

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