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Geoscientific Model Development Discussions
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Interactive comment on "SEHR-ECHO v1.0: a Spatially-Explicit Hydrologic Response model for ecohydrologic applications" *by* B. Schaefli et al.

Anonymous Referee #2

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General Comments

The authors present a new model for spatially-explicit hydrologic response to meteorological forcing, providing a case study of application to a small catchment in the Swiss Alps and accompanying calibration/validation. This model description manuscript is well-written, with clear tables and figures. It should be suitable for publication in GMD, subject to minor and technical revisions in response to the comments below.

Specific Comments

1. The Abstract does not mention calibration and validation of the model, which seem to be important and useful components of the paper - please expand the Abstract

accordingly.

2. Availability of the model code is briefly mentioned in a closing sentence - GMD model description papers are now required to include a brief “Code Availability” section, located between Conclusions and Acknowledgments. Please develop this section, make sure that the code is indeed available at the advertised website, and provide brief details (under “Code Availability”) of what the code comprises and how to practically install/use it.

Technical Corrections

1. p.1873, l.22: do you mean “timescales” (rather than “times”)?

2. p.1879, l.18: do you mean “data-base” (rather than “data-based”)?

3. p.1883, l.3: “clear identification” sounds better than “good identifiability”

4. p.1898, Fig. 4, middle two panels: Please be more specific than “Data” in labeling the y axes

5. p.1902, Fig. 8: Please label y axes (or explain them in the caption) - I presume the quantity ranging 0 to 0.3 is fractional proportion of the population per parameter value bin (0-1)

Interactive comment on Geosci. Model Dev. Discuss., 7, 1865, 2014.