

Interactive comment on “Using expert knowledge to increase realism in environmental system models can dramatically reduce the need for calibration” by S. Gharari et al.

S. Gharari et al.

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Dear Dr. Tian

We are very happy that our manuscript drew a lot of attention from the reviewers. We appreciate the comments and suggestions by reviewers on our manuscript. We tried to include all the suggestions and comments in the revised manuscript as much as possible.

We would like to emphasize a general point about the two papers; reviewers suggested that the search methodology proposed in the technical note can be moved to the main paper (in fact merging the papers) and that the presented model structure

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and constraints can be presented as a special case of this search methodology. However in our point of view the main contribution of the research article is presenting the importance of the building the model structure and constraints based on hydrological common sense and use it to constraint the possible parameter space. The technical note is purely about an improved search strategy. We don't want to confuse these two important messages by merging the papers.

With kind regards

Shervan Gharari, on behalf of the co-authors

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 10, 14801, 2013.