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Interactive comment on "On the importance of multiple-component evaluation of spatial patterns for optimization of earth system models – A case study using mHM v5.6 at catchment scale" *by* Julian Koch et al.

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GMD is encouraging authors to provide a persistent access to the exact version (??) of the source code used for the model version presented in the paper. As explained in https://www.geoscientific-model-development.net/about/manuscript_types.html the preferred reference to this release is through the use of a DOI which then can be cited in the paper. For projects in GitHub (such as SEEM) a DOI for a released code version can easily be created using Zenodo, see https://guides.github.com/activities/citable-code/ for details. For mHM you may consider to upload the program code of

the specifc version of the paper (including relevant data sets) as a supplement or make the code and data of the exact model version (v5.6) described in the paper accessible through a DOI (digital object identifier). In case your institution does not provide the possibility to make electronic data accessible through a DOI you may consider other providers (eg. zenodo.org of CERN) to create a DOI.

Please note that in the code accessibility section you can still point the reader to the GitHub repository for the newest version even if you use a DOI for the relevant releases.

Lutz Gross GMD Executive Editor

Interactive comment on Geosci. Model Dev. Discuss., https://doi.org/10.5194/gmd-2017-238, 2017.