

Interactive comment on “An observation-constrained multi-physics RCM ensemble for simulating European mega-heatwaves” by A. I. Stegehuis et al.

A. Colette (Editor)

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To the authors,

As topical editor of your manuscript, I've taken note of your answers to the comment raised by the referees. At this stage, you may submit another version of your manuscript but you should be aware that it will be sent again for review given the major revisions that were asked.

The main criticism raised by the referees regard the use of only one LSM which is indeed important for your purpose. In the answer to the referees you raise a number of technical reasons for not using alternative LSM implemented in WRF. Please make

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sure these technical reasons are well documented in the new version of the manuscript, for instance by explaining why you consider the 5-layer thermal diffusion scheme as non-physical and providing a detailed evaluation of the overestimation of heat fluxes found for the RUC scheme.

The link between answers to referees and modifications in the manuscript should also be clearly given.

best rgds

Augustin Colette

Interactive comment on Geosci. Model Dev. Discuss., 7, 7861, 2014.