

2nd review of the manuscript „Results from a full coupling of the HIRHAM regional climate model and the MIKE SHE hydrological model for a Danish catchment” by Larsen et al., Hydrol. Earth Syst. Sci. Discuss., 11, 3005–3047, 2014

The authors did a reasonable job of addressing my questions. However, to finalize the review, there are two remaining issues:

- 1) The authors often claimed that they considered my recommendations in the manuscript. While I appreciate this very much, it is impossible for me to find and to evaluate these changes, if these are neither marked nor cited in the response. It is essential that the modifications are clearly indicated in the revised manuscript. This should easily be possible by using track changes, citation of the insertions/changes or using different colors.
- 2) I do not agree that downscaling of the HIRHAM results to higher spatial resolution adapted to MIKE SHE would not have a positive impact (see Point 2). In this connection, I did not state that HIRHAM is “too coarse” for driving a hydrological model but I pointed out that a better representation and interaction of physical processes can be achieved, if further dynamical downscaling of HIRHAM is applied. I do not expect that the authors are adding additional model runs to demonstrate this in order to avoid extensive work. However, recent results in regional downscaling using convection-permitting resolution, which clearly demonstrated the improved linkage between forcing data and hydrological output, should be considered in the discussion and the summary.