

Interactive comment on “A coupled atmosphere and multi-layer land surface model for improving heavy rainfall simulation” by M. Haggag et al.

B. Schaefli (Editor)

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In their final response, the authors responded explicitly to the specific comments raised by the two anonymous reviewers of the HESSD paper and discussed how they are going to address the important points raised in the general comments. While reviewer 3 considered this paper being an interesting case study requiring major revisions, reviewer 2 questioned the specific aim and usefulness of this paper, which is clarified in the authors' final response.

I encourage the authors to submit a revised version of the manuscript that includes the revisions suggested by the reviewers along the authors'; responses to the raised points. My recommendations for the revised manuscript are

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Interactive Discussion

Discussion Paper



- Include a better motivation of your paper in the introduction of the revised manuscript (along the lines of your answer to reviewer 2); the rest of the manuscript should reflect this motivation

- Discuss the important point of reviewer 2 concerning the initialisation of different models (point 1 in the general comment); even if you do not include a sensitivity analysis, a discussion of the potential impact of model initialisation on the obtained results and on the obtained conclusions is crucial for this paper

- Provide an improved analysis of the linkage between the improved soil moisture and flux simulations and precipitation (along the general comments of both reviewers)

- Include all other responses to the reviewers in an appropriate way (without considerably extending the manuscript)

Thanks to the reviewers for their contribution.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 5, 1067, 2008.

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