

Interactive comment on “Coupling a groundwater model with a land surface model to improve water and energy cycle simulation” by W. Tian et al.

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Thanks for the previous and current comments provided by the referee. These very suggestive and helpful comments will help us to improve this manuscript. The comments are replied as follows.

RC1: The lateral water movement in the unsaturated zone is not described by models coupling MODFLOW and Hydrus.

Response: Yes, the lateral water movement in the unsaturated zone was not considered in the MODFLOW-HYDRUS model. We have modified the corresponding description as “These models describe the water balance processes and physical mechanism

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of the subsurface water movement in both saturated and unsaturated zones”.

The other corrections have been made in the manuscript according to the suggestions of the referee.

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