

The author modified the manuscript according to the comments of the reviewers. However, there are still some issues need to be addressed.

Specific comments:

1. I feel that the case study in this research seems a little simple. I still suggest to add more case studies, especially some simulations at catchment scale and comparison with observations.
2. I suggests that the author could add more descriptions about the computation efficiency of the new model and MIKE SHE to show the advantage of the new model.
3. In Figure 10, from day 6 to day 31, the difference in simulated water tables by MIKE SHE and MOBIDIC-MODFLOW seems not significantly decreased. However, the spatial pattern was changed a lot. This needs further explanation.
4. Figure 11, simulated water table depth by MIKE SHE are smooth but the water table depth by MOBIDIC-MODFLOW are not smooth. Please explain it.
5. In equation 19, I feel that the meaning of parameter ω needs to be further explained. What are the results of the calibration of ω ?