

Interactive comment on “The snowmelt runoff forecasting model of coupling WRF and DHSVM” by Q. Zhao et al.

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This manuscript tried to simulate the snowmelt runoff forecasting by using the coupled atmospheric mesoscale WRF model and distributed hydrological model. It is an interesting and important topic, and includes a lot of efforts. The subject of this study and content of this manuscript are suitable for publishing in Hydrology and Earth System Sciences. However I think that the quality of the manuscript needs to be improved, and the paper needs well organized and clearly presented. I recommend this paper can be published after making the following major/minor revisions. All the figure captions are too simple, and all the descriptions of the figures in the text are too short. Please re-work on the texts and figure captions to show more details. I have listed but not

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limited to some items below.

- 1) What are the background colors representing in Figure 1?
- 2) What is the soil parameter required in the hydrological model and what are the values for the soil parameter to match the different soil types shown in Figure 2?
- 3) What is the vegetation parameter required in the hydrological model and what are the values for vegetation to match the different vegetation types shown in Figure 3?
- 4) What are the numbers in Figure 4 representing?

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