

# ***Interactive comment on “Numerical rainfall simulation with different spatial and temporal evenness by using WRF multi-physics ensembles” by Jiyang Tian et al.***

**Y. Zhang**

zhangyj1015@whu.edu.cn

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The manuscript contains an interesting comparison of various ensembles of physical parameterizations on precipitation forecasts of WRF model for several catchments in Northern China. It is constructive and some comments are described below: 1. Since each storm is 24 hours, it is assumed the authors initialize the model at the start of the storm. It would be informative to indicate when the model was initialized. This would also let the readers know how any approaches to spin-up (if any) was dealt with. 2. It is important to let the readers know the timescale for integration step of WRF model. 3. It seems that the model may produce some insignificant precipitation (less than 0.1 mm/hr). Could you explain it? 4. Why do you choose 40 vertical layers with 1 km

horizontal resolution? Could you give some details on the number of vertical layers used in the study? 5. If it is possible, more data would be better to firm the conclusion.

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