

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

**Z. CHU**

chuzhigang\_2000@163.com

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Physical parameterisations have effect on rainfall simulation of the WRF model. This study provides a reference for choosing the appropriate physical parameterisations to simulate different storm types in Northern China. The verification indices are novel and transferable. The results are also analyzed clearly and in detail. Now I have some detailed questions:

1. page 6, line 21: "In order to compare the simulations for different storm events, the final values of the three continuous indices in both two dimensions are represented as percentages of the corresponding average observations". The equation (7)-(9) should be modified as the sentences above, in two different dimensions.

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2. page 5, line 16: Mention of the interpolation from observations using the Thiessen polygon method- no reference to this method.

3. Adding some comments in section 5 Discussion: How the rainfall forecasts influence the flood forecasts.

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