Response to Reviewer #2’s Comments:

Yuxin Zhao et al. (Author)

We would like to thank the reviewer #2 for the constructive comments. Based on the comments from reviewers, we revise the related methods, figures and corresponding descriptions. Meantime, we also add some discussions in the revised manuscript.

Please see our response to comments. All revisions were shown in revised manuscript by using track changes.

General responses:
1. Only major suggestion is that the authors need qualitively/quantitatively address in the Conclusion and Abstract what effect this research can have on climate modeling/local climate/weather.

Response: Many thanks for the Reviewer #2’s suggestion. In the revised manuscript, we already revise the related methods, figures and corresponding descriptions. Meantime, we also add some qualitively/quantitatively discussions and descriptions about the impact of this research on climate modelling/local climate in the conclusion and abstract sections.