

Comments to the Author

Review of 'Microphysics parameterization sensitivity of the WRF Model version 3.1.7 to extreme precipitation: evaluation of the 1997 New Year's flood of California' by Elein Tan

This study tried to evaluate the WRF model performance of microphysical schemes on predicting an extreme precipitation event by using 18 Goodness of Fit tests for hourly and point-wise and 72-hr basin-averaged comparison between observations and model outputs. While the attempt to evaluate 19 available bulk microphysical schemes of the WRF model of the current version is of merit, there are two major deficiencies in this paper. Firstly, this study used only 3 stations of rain gauge data for the GoF tests, which can hardly lead to any statistically meaningful result. Secondly, the method used in this study is not suitable for evaluating the performance of microphysical schemes because all the metrics in the GoF tests are the final scores about the performance, which cannot show us what is wrong with the schemes on a process level and thus failed to tell us how to improve the schemes, which is an important aspect for an evaluation paper. Therefore, this reviewer has to suggest the editor to reject the publication of the manuscript in GMD.