

# ***Interactive comment on “Numerical study of the initial condition and emission on simulating PM<sub>2.5</sub> concentrations in Comprehensive Air Quality Model with extensions version 6.1 (CAMx v6.1): Taking Xi’an as example” by Han Xiao et al.***

## **Anonymous Referee #2**

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Many model sensitivity tests were conducted to assess the effects of different initial conditions and emissions in Xi’an, Northwest China, in December 2016 by using the WRF-CAMx model. Major revisions are needed as suggested below, 1) The simulation was done in the period of November 20, 2016 to January 20, 2017 but the comparison of simulations and observations was made only in December, 2017, why? 2) For model evaluation of meteorological fields, the comparison of simulated and observed wind speed and direction should be added. 3) The CAMx has only one domain ... (section 2.3)? Actually, Fig.4 shows that the CAMx also has three nested domains. 4) Please

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explain why the model performance in the studied urban area is poorer than that in the studied counties (section 4.1.1). 5) Please use “simulation” instead of “mechanism” in the whole text. 6) The writing English need more polishment.

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