

Interactive comment on “A modeling analysis of a heavy air pollution episode occurred in Beijing” by X. An et al.

X. An et al.

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Q: Not all important details are presented. For instance, the data used for Initialization of the MM5 model are not described. In my opinion, the description of the input source rate data from the corresponding data bases could be essentially more detailed. For instance the temporal resolutions and other important parameters of the input data could be given.

A: Thanks for your comments. In the revised version, we will present the important details you mentioned. The data used for initialization and boundary conditions of MM5 model are derived from NCAR/NCEP analysis data. We agree in the revised manuscript to give more description of source rate from the corresponding database, including the temporal resolutions and other important parameters. At current stage, the emission database used in the paper is combined with several sources emission

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database including Street (2003 and personal communications) and reports of some National Projects on Beijing Air Quality Controls.

Q: The reference on Streets, et.al, (2004) in Section 3 is missed in References.

A: The modified paper will change it into the following: D. G. Streets, T. C. Bond, G. R. Carmichael, et al.: An inventory of gaseous and primary aerosol emissions in Asia in the year 2000, J. Geophys. Res., 108(D21), 8809, doi: 10.1029/2002JD003093, 2003

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