

## ***Interactive comment on “Using 3DVAR data assimilation system to improve ozone simulations in the Mexico City basin” by N. Bei et al.***

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We are grateful to the reviewer’s thoughtful comments and suggestions for the manuscripts. Below are the replies to the reviewer’s comments in detail.

7. Need to quote more previous works, and state the more clearly their original contributions.

Additional previous works have been included in the introduction (such as Tie et al. 2007; Wellens et al.(1994), and Williams et al. (1995)

11. The language has some minor problems.

The language throughout the paper has been revised by a native English speaker.

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13. The quality of figures needs to be improved.

Several figures have been re-plotted and edited (including Figs. 2, 3, 5, 9, and 10).

14. Need some references for previous works.

Additional references have been included on Page 12532: Bossert (1997), Wellens et al. (1994), and Williams et al. (1995) evaluated the local circulations produced by mesoscale models and the transport of pollutants simulated by dispersion models using data from a 1991 field campaign. Tie et al. (2007) used a newly developed regional chemical/dynamical model (WRF-Chem) to study the formation of chemical oxidants, particularly ozone in Mexico City.

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Interactive comment on Atmos. Chem. Phys. Discuss., 8, 12529, 2008.

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