

Interactive comment on “Asian dust outflow in the PBL and free atmosphere retrieved by NASACALIPSO and an assimilated dust transport model” by Y. Hara et al.

Y. Hara et al.

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Thank you very much for your careful reading and appropriate comments. We will revise our manuscript according to your comments. We will also carefully revise Fig. 2 to improve readers' understanding of its contents. We hope that our revisions are sufficient to address the shortcomings described in your comments.

Reply to Specific comments:

We will revise the Results and Discussion to impart a better understanding.

- P8718, line 10:

Your comment is correct. We will revise the description of the simulation period. Actu-

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ally, the simulation was performed from 1 May; data assimilation was performed during 16-31 May. In this manuscript, we presented only the model results from 21-31 May 2007.

- P8720, lines 4,5:

As included in a reply to Reviewer 2's comment a), we will revise Fig. 2 to provide a description of important meteorological features more clearly. We will add descriptions about the symbols L and UTD to the text.

- P8728:

We will include necessary references describing CMAQ and related CMAQ application study in the eastern Asian domain.

Byun, D. W., and J. K. S. Ching (Eds.) (1999), Science algorithms of the EPA Models-3 community multi-scale air quality (CMAQ) modeling system. NERL, Research Triangle Park, NC EPA/ 600/R-99/030.

Uno, I., Y. He, and T. Ohara et al. (2007), Systematic Analysis of Interannual and Seasonal Variations of Model-simulated Tropospheric NO₂ in Asia and comparison with GOME-satellite data, *Atmos. Chem. Physics*, 7, 1671-1681.

Interactive comment on *Atmos. Chem. Phys. Discuss.*, 8, 8715, 2008.

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