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Atmospheric Chemistry and Physics Discussions



# *Interactive comment on* "Data assimilation of dust aerosol observations for CUACE/Dust forecasting system" *by* T. Niu et al.

**X. Zhang (Editor)**

xiaoye@cams.cma.gov.cn

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The author has replied every comment in details and the answers are reasonable.

For example the author added some contents and a new figure in section 4.1 to show the impact of the DAS on the column loading for replying the comment (4). Some modifications were given in fig 4b and some contents were given in Section 4.2 to explain Yes/No TS. More detailed descriptions and formulas were given in Section 2.2.2 in order to definition of B matrix and so on. Every question has been answer in accepted way.

Dust forecasting in East Asia is a very important environmental requirement. The paper represents an important and advanced data assimilation method for forecasting Asian

dust phenomena based on real-time surface dust observation and Chinese satellite remote. The adoption of various observations in data assimilation system is an ambitious useful development for improving forecasting capability especially in operational dust forecasting. So this paper discussed a new method in dust forecasting, which is scientific question of the scope of ACP.

Based on the above, I would like recommend the paper for publication in ACP.

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Interactive comment on Atmos. Chem. Phys. Discuss., 7, 8309, 2007.



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Interactive Comment