

***Interactive comment on* “Effects of dust storms on microwave radiation based on satellite observation and model simulation over the Taklamakan desert” by J. Ge et al.**

Anonymous Referee #2

Received and published: 15 June 2008

This manuscript sheds light on the impact of aerosols on the microwave region of the spectrum. The mentioned cases dealt with scattering of brightness temperatures by dust. However, further related work has targeted other sensors like ASMU which is not listed here, please consult the following reference. Dust storms detection over the Indo-Gangetic basin using multi sensor data, *Advances in Space Research*, Volume 37, Issue 4, 2006, Pages 728-733 by H. El-Askary, R. Gautam, R.P. Singh, M. Kafatos

In general, I find the manuscript is in an acceptable form after few clarifications. All the ambiguities, editing and grammatical errors raised by both reviewers must be addressed in the manuscript. The paper still needs more editing and a thorough gram-

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Interactive Discussion

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matical revision

Major comments:

The authors must comment on the use of the 89 GHz channel and the associated scattering schemes. How this channel drawback in the SSMI is used in favor of the dust storms.

Description and discussions of the associated grain size distribution and the angstrom exponent will add more weight to the obtained outputs.

Interactive comment on Atmos. Chem. Phys. Discuss., 8, 7931, 2008.

ACPD

8, S3732–S3733, 2008

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