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ACPD 11, C2766–C2767, 2011

> Interactive Comment

Interactive comment on "Large Asian dust layers continuously reached North America in April 2010" *by* I. Uno et al.

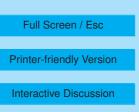
Anonymous Referee #1

Received and published: 5 May 2011

This paper reports about the trans-pacific transport of Asian dust to North America with the help of satellite-based lidar and radar data. It is demonstrated in detail how the dust is emitted into the troposphere and transported over the Pacific ocean. The presentation of the results is clear. I recommend the paper to be published in ACP. There are only minor corrections as given next:

1) Section 2: S1 of 35 sr was applied where the authors refer to the work of Shimizu et al. (2004). In that work I found an applied value of 50 sr. S1 is important to derive the extinction coefficient from backscattering coefficient. Why not using the latter value?

2) Last paragraph of section 2: Figure 1 is mentioned. But it is not stated how well the model and the observations fit together quantitively.



Discussion Paper



- 3) Last paragraph of section
- 4) Page 12257, Line 6: Rem
- 5) Page 12259, Line 11: Re
- 6) Page 12260, Line 3: Write

Interactive comment on Atmos

n 3.1: 'reveal' is used too often.	
nove comma after '2010'.	ACPD
emove 'plot'?	11, C2766–C2767, 2011
te 'America at at least'?	
	Interactive
s. Chem. Phys. Discuss., 11, 12251, 2011.	Comment

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Interactive Discussion

Discussion Paper

