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Interactive comment on “Data assimilation of CALIPSO aerosol observations” by T. T. Sekiyama et al.

T. T. Sekiyama et al.

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Following the opinion of the Editor, we quantitatively evaluated improvement of the analysis presented in Fig. 5. We calculated "threat score" and "hit score (= percentage correct)" of the results in Fig. 5a and 5b, respectively. The data assimilation makes the scores remarkably improved as shown in Table 1 and 2.

Threat score = AO/(AO+ANO+NAO) , commonly used in NWP

Hit score = (AO+NANO)/Total , i.e., coincidence of observation and analysis

Table 1. The number of weather stations in Fig. 5a and 5b.

Dust events at each station, Reference result (Fig. 5a), Assimilation result (Fig. 5b)

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Analyzed and Observed (AO) 16 14
Not Analyzed and Not observed (NANO) 9 28
Analyzed but Not observed (ANO) 22 3
Not analyzed but Observed (NAO) 0 2
Total 47 47

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Table 2. Analysis scores of reference and assimilation results.

Score, Reference result (Fig. 5a), Assimilation result (Fig. 5b)

Threat score 0.42 0.74

Hit score 0.53 0.89

Interactive comment on Atmos. Chem. Phys. Discuss., 9, 5785, 2009.

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