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Atmospheric Chemistry and Physics Discussions

Interactive comment on "The T1-T2 study: evolution of aerosol properties downwind of Mexico City" *by* J. C. Doran et al.

J. C. Doran et al.

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General Comments

We thank the reviewer for his positive response to our paper.

Specific Comments

We agree that it would be very interesting to examine the variation of specific absorption as a function of EC mass fraction. Unfortunately, no mass fraction measurements were made at the T2 site and we are unaware of any at the T1 site either.

We did not use the PSAP data to extrapolate the photoacoustic absorption data from 870 nm to 550 nm for two main reasons. The first is that the longest wavelength for the PSAP was 660 nm. We did not feel it was justified to assume that an extrapolation derived from 660 and 530 nm PSAP data could be applied to the much larger

extrapolation of the 870 nm photoacoustic results to 550 nm. The second is that the data recovery from the PSAP at the T1 site was poor, as noted in the text, and there were long periods when no comparisons with photoacoustic data were possible. As a result, we prefer to focus on the results obtained from the photoacoustic instruments rather than the PSAPs and have only included the latter for the sake of comparison with earlier work.

Technical Comment

The table has been rearranged as suggested.

Interactive comment on Atmos. Chem. Phys. Discuss., 6, 12967, 2006.

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