

Interactive comment on “A case study on long-range transported aerosols of biomass burning: effects on aerosol optical properties and surface radiation levels” by A. Arola et al.

A. Arola et al.

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We would like to thank the reviewer for his/her constructive comments. Below are included all the review comments that required a response.

Measurement times (in Figures 1 and 3) for MODIS AOD is MODIS overpass time with time difference less than 1 hour for CIMEL measurements, as has been mentioned in the text.

The caption for Figure 8 is extended to better explain it.

The study of diurnal effect would have been interesting, as was suggested by other reviewer as well. In our study, however, we focused on the aerosol- induced decrease

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in radiation at noon, because our analysis was based on MODIS AOD data available for times near local noon, while we did not have good quality data to account for diurnal AOD variability.

Interactive comment on Atmos. Chem. Phys. Discuss., 7, 6631, 2007.

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