

## ***Interactive comment on “Some considerations about Ångström exponent distributions” by F. Wagner and A. M. Silva***

**F. Wagner and A. M. Silva**

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Remark about wavelength dependency on alpha and beta (equation 1): Answer: Alpha denotes the so-called Angstrom exponent. The reviewer is right that the AE depend on the wavelength and hence using different wavelength pairs the value of the AE might change. Beta describes the AOD at 1000 nm. It therefore does not depend on the wavelength, but instead on the particle concentration.

Remark about the region where Tanh and Coakley Jr. reported a gamma distribution Answer: They studied the area of the Indian Ocean and the Arabic Sea.

Remark about last sentence of section 4.1 Answer: The same comment was done by reviewer 1. The two phrases does not belong to the manuscript. We don't know how they entered into the manuscript and how they survived the technical control. We would like

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to apologize.

Remark: which station in Southern Europe? Answer: We didn't refer to any specific station in Southern Europe. The question at which time the airmass is larger or smaller than 2 depends on the geographical latitude. The time is for all stations identical if local solar time is used. Unfortunately we specified the time system as UTC which was an unintentional mistake. In the revised version we will omit UTC.

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Interactive comment on Atmos. Chem. Phys. Discuss., 7, 12781, 2007.

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