

## ***Interactive comment on “Intercomparison of aerosol optical depth from Brewer ozone spectrophotometers and CIMEL sunphotometers measurements” by A. Cheymol et al.***

### **Anonymous Referee #2**

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Couple of points to clarify why I proposed to include daily AOD comparisons as well. First, figure 6a in particular suggested that there might be cases of cloud contamination (in both data sets); some differences were so large. Therefore, I thought that it would be interesting to look at the mean values over a longer period, thus I suggested to look at daily values. It sounds that you have already looked at this type of comparisons. It is not immediately obvious why these comparisons are worse than instantaneous data, as you say, if one has representative daily mean values over the site from both instruments (this should be achievable with good temporal resolution with the measurements).

You asked whether these mean values should be based on quasi simultaneous data or

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on all daily data? Difficult to say without seeing your data. If you have lot of measurements from both instruments in each day, then this should not make a big difference. Otherwise, to include quasi simultaneous data only is likely a good approach.

To summarize: it would be interesting to have some discussion why your comparisons of daily data "was not very good". You can look at the data in more detail, so it is in your judgment what to include in the revised manuscript. For instance, it may not be necessary to include figures of daily comparisons, but they are certainly worth of some discussion in the text.

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Interactive comment on Atmos. Chem. Phys. Discuss., 8, 11997, 2008.

**ACPD**

8, S4544–S4545, 2008

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