Atmospheric Chemistry and Physics Discussions

Interactive Comment

Interactive comment on **"Implementation of a Markov Chain Monte Carlo Method to inorganic aerosol modeling of observations from the MCMA-2003 Campaign. Part II: Model application to the CENICA, Pedregal and Santa Ana sites"** *by* **F. M. San Martini et al.**

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I'm not sure how huge the MCMA-2003 campaign in Mexico City was and how many different parameters were measured. However, I believe for a better understanding (and if available) I would encourage the authors to include some other data which will help the reader to understand the different mechanism. Olaf Hellmuth already mentioned a synoptic characterization of all measurement periods and I would include here also particle size distributions and organic measurements. The authors discussed

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the contribution of organic species and if data are available for the selected period (9-11 of April) a short discussion would be more conclusive.

For the synoptic characterization, see the response to Dr. Hellmuth's comment. For a full discussion of particle size distributions as well as organic particle measurements the reader is referred to Salcedo et al., Characterization of Ambient Aerosols in Mexico City during the MCMA-2003 Campaign with Aerosol Mass Spectrometry: results from the CENICA Supersite, Atmospheric Chemistry and Physics, 6, 925-946, 2006.

Figure 4-6: I had the same problem as Olaf with the size of these figures and would also encourage the authors to use the different colors not only in the different plots but also in one plot, which would make it easier to understand these figures. It would be also useful to change the systematic of the legend so that they reflect the lines in the corresponding plot.

We have requested that ACP enlarge the figures.

Interactive comment on Atmos. Chem. Phys. Discuss., 6, 5999, 2006.