

Interactive comment on “Atmospheric measurements of gas-phase HNO₃ and SO₂ using chemical ionization mass spectrometry during the MINATROC field campaign 2000 on Monte Cimone” by M. Hanke et al.

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Remark to comment 1:

Based on the limited data set other explanations as listed by G. Huey cannot be really excluded. This is also mentioned in the paper. One major problem is that after June 30 some very important gas-phase parameters, to characterize the air masses, have not been measured any more. But from the point of view of aerosol chemistry I would like to refer the question to Rita. Maybe she can comment on this in her contribution to the special issue?

Remark to comment 2:

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Please, see the comments to Rita`s remarks!

Remark to comment 3:

Increasing the size is done! Including the aerosol surface area density would overload Fig. 6. For the most important period, i.e. during the dust event, the integrated surface area concentration for particles > 721 nm has been added now in Fig. 10. For the other aerosol data I may ask the interested readers to refer to

Van Dingenen, R., Putaud, J.-P., and Raes, F.: Comprehensive characterisation of physical and chemical properties of the aerosol at Mt. Cimone, Atmos. Chem. Phys., submitted, 2003.

Interactive comment on Atmos. Chem. Phys. Discuss., 2, 2209, 2002.

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