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Atmospheric Chemistry and Physics Discussions

Interactive comment on "A unified approach to aerosol remote sensing and type specification in the infrared" *by* L. Clarisse et al.

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Although we believe that discussions in ACPD are reserved for matters of substance, we have to disagree with this comment.

The first sentence "This paper concerns technical details of aerosol retrieval" is untrue and should be clear for anyone who has read the paper. For ACP "The journal scope is focused on studies with general implications for atmospheric science rather than investigations that are primarily of local or technical interest." We believe that this covers well the current paper. We have presented a unified method to detect aerosol from IR measurements and demonstrated on a large number of test cases that infrared instruments can efficiently distinguish aerosol types. In our opinion the paper has potentially broad implications for atmospheric science further than "technical details". We show among

other things the first observations of ammonium sulphate from space, and unexpected nadir observations (and 3 years timeseries) of sulphuric acid aerosol.

Interactive comment on Atmos. Chem. Phys. Discuss., 12, 26871, 2012.