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Comment

# ***Interactive comment on “Tomographic retrieval of water vapour and temperature around polar mesospheric clouds using Odin-SMR” by O. M. Christensen et al.***

**O. M. Christensen et al.**

olem@chalmers.se

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First we would like to thank the reviewers for their constructive and helpful comments and for taking the time to review our manuscript. In particular, the comments regarding the separability of the dimensions in the apriori covariance matrix and the possibilities of convergence errors were very helpful in improving the quality of the retrieved data. Because of this, we have chosen to reprocess the data without assuming separability in the different dimensions and with a stricter convergence criterion than previously used.

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Looking at the data we have reprocessed so far, these changes do not seem to change any of the major conclusions in the paper, but the differences are large enough that we would like to reprocess all data before submitting a final answer to the referees. We have therefore asked for a three week extension of the deadline, and will submit our answers as well as a new version of the manuscript then.

Regards

Ole Martin Christensen  
Corresponding author

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Interactive comment on Atmos. Meas. Tech. Discuss., 7, 11853, 2014.

**AMTD**

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