

## ***Interactive comment on “Instrument inter-comparison of glyoxal, methyl glyoxal and NO<sub>2</sub> under simulated atmospheric conditions” by R. Thalman et al.***

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We thank the reviewer for this thorough assessment of the paper, and the valuable comments. We have added a new Section 4.6 ‘Comparison of atmospheric glyoxal concentrations’ that contains a new Table 5 with correlations of ambient glyoxal concentration (mostly below 300 pptv, and in all cases below 500 pptv), and for low concentration data from experiments in the absence and presence of NO<sub>x</sub> and under dry and moist conditions.

The conclusion section now contains a summary statement on the outstanding areas

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for future study. We have added a new Section 4.5 ‘Interferences from H<sub>2</sub>O’ to make our reasoning transparent for the choice of experimental conditions. A setup like EUPHORE does not provide good control of temperature and RH, which are initially coupled. Suggestions for future studies are now also mentioned in the Conclusion section.

Please also note the supplement to this comment:

<http://www.atmos-meas-tech-discuss.net/7/C4966/2015/amtd-7-C4966-2015-supplement.pdf>

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