

Interactive comment on “Instrument inter-comparison of glyoxal, methyl glyoxal and NO₂ under simulated atmospheric conditions” by R. Thalman et al.

R. Thalman et al.

rainer.volkamer@colorado.edu

Received and published: 24 February 2015

We liked to thank Tom Hanisco for his comments. In the revised manuscript we have added a separate Section 4.6 about the discussion of ambient glyoxal concentrations (mostly below 300 pptv, and below 500 pptv in all cases), and their NO_x dependence. Glyoxal is mostly a biogenic gas, and NO_x levels in biogenic regions rarely exceed a few ppbv. In urban hotspots glyoxal concentrations are often higher, and even here NO_x rarely exceeds few 10 ppbv. Over oceans the concentrations can be as low as the reviewer suggests, but there is very low NO₂ in these environments. We have also added a separate Table 5 with correlations of these low concentration periods, and

C4963

separately evaluated periods in the absence and presence of NO_x.

Please also note the supplement to this comment:

<http://www.atmos-meas-tech-discuss.net/7/C4963/2015/amtd-7-C4963-2015-supplement.pdf>

Interactive comment on Atmos. Meas. Tech. Discuss., 7, 8581, 2014.