

Interactive Comment

Interactive comment on “Intercomparing CO₂ amounts from dispersion modeling, 1.6 μ m differential absorption lidar and open path FTIR at a natural CO₂ release at Caldara di Manziana, Italy” by M. Queißer et al.

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Received and published: 10 July 2015

**Author’s reply to comments of reviewer #2 in
AMTD**

The authors would like to thank the constructive

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comments made by the reviewer and the time he/she took. Below please below find the responses.

All changes made to the manuscript are marked in yellow. Author's replies are marked in green

We finally propose to not publish the DIAL data as we found that the error introduced by not normalizing is too large to be able to have a useful interpretation of the data (see section 2.5 below). We think that this is a reasonable thing to do as this does not degrade the quality of the paper but on the contrary increases it, because it is less convolved and the take home message is clearer. Some replies have become redundant but we have kept some of them nevertheless. Of course, we need to change the paper title accordingly. the comments are addressed in the attachment.

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**Please also note the supplement to this comment:
<http://www.atmos-meas-tech-discuss.net/8/C1942/2015/amtd-8-C1942-2015-supplement.pdf>**

Interactive comment on Atmos. Meas. Tech. Discuss., 8, 4325, 2015.

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