

Interactive comment on “FTIR time-series of biomass burning products (HCN, C₂H₆, C₂H₂, CH₃OH, and HCOOH) at Reunion Island (21 S, 55 E) and comparisons with model data” by C. Vigouroux et al.

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Received and published: 25 September 2012

Answers to Referee Thomas Blumenstock

The subject is fully appropriate for publication in ACP. I recommend publication after minor revisions.

Specific comments:

a) Chapter 2.1: Is the ILS result obtained with cell measurements and LINEFIT software used as input data in the retrieval of atmospheric trace gas concentrations?
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tions?

b) Please state the period of the wet season: Is it December to March? For CH₃OH, C₂H₆ and C₂H₂ some model runs ‘overestimate the observations during the wet season’: A label for the wet season would help the reader to assign these periods in Fig. 4.

c) Moreover, Fig. 4 is too small in the actual ACPD version.

We thank the referee for his useful remarks.

a) Chapter 2.1: yes, we do use cell measurements and LINEFIT software. This was mentioned (Chapter 2.1: p. 13740 of ACPD version).

b) The period of the wet season at Reunion Island – Madagascar – Mozambique is about December-April. However, when we used the term “wet season” in the paper, it was in the sense of “not the biomass burning season”, and we meant the season used in Table 6 (now Table 5 in the new manuscript) for the comparisons with the model: the January-July period. As the term “wet season” leads to confusion, we have replaced it by January-July in the new manuscript.

c) Figure 4 is larger in the ACP version.

Interactive comment on Atmos. Chem. Phys. Discuss., 12, 13733, 2012.