

Interactive  
Comment

***Interactive comment on “FTIR time-series of biomass burning products (HCN, C<sub>2</sub>H<sub>6</sub>, C<sub>2</sub>H<sub>2</sub>, CH<sub>3</sub>OH, and HCOOH) at Reunion Island (21 S, 55 E) and comparisons with model data” by C. Vigouroux et al.***

**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 concentra-**

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tions?

**b) Please state the period of the wet season: Is it December to March? For CH<sub>3</sub>OH, C<sub>2</sub>H<sub>6</sub> and C<sub>2</sub>H<sub>2</sub> 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.

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

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