

Interactive comment on “Technical Note: New ground-based FTIR measurements at Ile de LaRéunion: observations, error analysis, and comparisons with independent data” by C. Senten et al.

Anonymous Referee #1

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The paper describes atmospheric trace gas observations from Ile de LaRéunion using the solar absorption spectrometry in the infrared spectral region. Overall I cannot recommend publication in its current stage, as described below. However, I have the feeling that after a substantial modification the paper does not contain enough new information, therefore a publication in ACP seems very questionable for me.

Major comments: - The paper is a typical validation paper. It contains the results for many trace gases, but not a deep geophysical interpretation. As such, the paper might be acceptable, but the results for several trace gases are discussed already in

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the ACE-validation special issue, a presentation in this paper does not yield anything new. - The paper presents many topics that have already been discussed in many other papers, like the description of the retrieval method, the description of the A priori profile and associated covariance matrix, or the whole error discussion. It is not necessary to discuss this here in detail. - A few phrases are absolutely unnecessary, like the detailed description of the NDACC in the introduction, or the first statement in the conclusions that 'Ground-based FTIR spectroscopy is a very useful technique to derive total column abundances and low-resolution vertical profiles of many important trace gases in the atmosphere.' - I do not understand why for all Figures showing spectra, except one, the wavenumber scale is not given.

Interactive comment on Atmos. Chem. Phys. Discuss., 8, 827, 2008.

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