

Interactive comment on “1997–2007 CO trend at the high Alpine site Jungfraujoch: a comparison between NDIR surface in situ and FTIR remote sensing observations” by B. Dils et al.

Anonymous Referee #1

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This paper compares trends of CO at Jungfraujoch measured by two techniques: in situ and FTIR remote sensing. The authors demonstrate that the two measurement techniques yield different trends and interannual variability due to their sensitivity to different parts of the atmosphere and thus source regions. The paper is very interesting, presenting a well written and very careful analysis of the datasets.

My only suggestion to the authors is to expand a bit in the abstract to reflect the actual depth of analysis presented in the paper (emphasizing the different trends found, being more specific on what regions the two instruments are sensitive to, etc...).

Minor comments. 1) Table 1: It wasn't clear to me why the standard deviation in the

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NDIR trend jumps from 0.03 (top 3 rows) to 0.3 (bottom 3 rows). I would have expected that with more averaging the standard deviation would actually decrease. Is this 0.3 value a typo or is this real?

2) Figure 1. It might be useful to the reader to specify the averaging times corresponding to the 2 instruments in the figure caption.

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