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Comment

## ***Interactive comment on “Evaluation of balloon and satellite water vapour measurements in the Southern tropical UTLS during the HIBISCUS campaign” by N. Montoux et al.***

**N. Montoux et al.**

Received and published: 20 November 2008

The major concerns of the referee are in line with those of referee #1: the use of AIRS as reference qualified of fatal mistake, and more generally the many comments of referee #1 with which the reviewer agrees.

The AIRS issue is now clear. We were not intending to demonstrate that AIRS was better than shown by Gettleman et al. (2004), but just using it because of its high spatial resolution. We recognised that this was not a good idea and replaced it by ECMWF / Reprobus, providing indeed better information on water vapour variability, though having also its known limitations (dry bias in the stratosphere, no supersaturation).

Answers to referee #1 comments, including on HALOE-SAGE II correlation, will be

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found in the relevant response.

The comparison of measurements of a broad range of vertical resolution is indeed a problem. In the individual comparisons, the data are shown with their sampling provided in the files always narrower than their vertical resolution.

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Interactive comment on Atmos. Chem. Phys. Discuss., 7, 6037, 2007.

**ACPD**

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