

Interactive comment on “The MIPAS HOCl climatology” by T. von Clarmann et al.

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Dear authors,

This paper is referring ISS/JEM/SMILES. Since SMILES has been launched and operated during Sep. 2009 and Apr. 2010, and some early results has been published. We would like to comment that the reference to the SMILES should be the following paper (1) which describes instrument, retrieval, real spectrum and sample of retrieved profiles.

(1) Kikuchi, Ken-Ichi, Toshiyuki Nishibori, Satoshi Ochiai, Hiroyuki Ozeki, Yoshihisa Irimajiri, Yasuko Kasai, Makoto Koike, et al. 2010. “Overview and early results of the Superconducting Submillimeter-Wave Limb-Emission Sounder (SMILES).” *J. GeoPhys. Res.* 115 (D23) (December 7): D23306. doi:10.1029/2010JD014379.

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Currently you are referring Y. Kasai et al 2009, it is reporting sensitivity study from one of the retrieval groups in the SMILES science team, and it is not relating operational L2 products. Algorithms and sensitivity analysis of SMILES Operational L2 products is already published in the following papers (2, 3). If you need references to the paper on the sensitivity studies of SMILES, you may refer also Ref (2) in addition to Ref (1). But we feel the reference for the SMILES is simply Ref (1).

(2) Takahashi, Chikako, Satoshi Ochiai, and Makoto Suzuki. 2010. “Operational retrieval algorithms for JEM/SMILES level 2 data processing system.” *Journal of Quantitative Spectroscopy and Radiative Transfer* 111: 160–173. doi:10.1016/j.jqsrt.2009.06.005.

(3) Takahashi, Chikako, Makoto Suzuki, Chihiro Mitsuda, Satoshi Ochiai, Naohiro Manago, Hiroo Hayashi, Yoshitaka Iwata, et al. 2011. “Capability for ozone high-precision retrieval on JEM/SMILES observation.” *ADVANCES IN SPACE RESEARCH* (May 26): 1–10. doi:10.1016/j.asr.2011.04.038.

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