

Home

Online Library ACP

- ▣ Recent Final Revised Papers
- ▣ [Volumes and Issues](#)
- ▣ Special Issues
- ▣ Library Search
- ▣ Title and Author Search

Online Library ACPD

Alerts & RSS Feeds

General Information

Submission

Review

Production

Subscription

Comment on a Paper

Impact
Factor
4.865

ISI
indexed



▣ [Volumes and Issues](#) ▣ [Contents of Issue 18](#)

Atmos. Chem. Phys., 8, 5579-5588, 2008

www.atmos-chem-phys.net/8/5579/2008/

© Author(s) 2008. This work is distributed under the Creative Commons Attribution 3.0 License.

Quality assessment of O₃ profiles measured by a state-of-the-art ground-based FTIR observing system

M. Schneider¹, F. Hase¹, T. Blumenstock¹, A. Redondas², and E. Cuevas²
¹IMK-ASF, Forschungszentrum und Universität Karlsruhe, Karlsruhe, Germany
²Centro de Investigación Atmosférico de Izaña, Agencia Estatal de Meteorología, Spain

Abstract. Ground-based Fourier Transform Infra-Red (FTIR) measurements are an important component of the global atmospheric monitoring system. Their essential role in validating satellite measurements requires a precise documentation of their quality. Here we present an extensive quality documentation of ground-based FTIR O₃ profiles. This is done in the form of theoretical and empirical error estimations. The latter is achieved by an intercomparison with ECC-sonde O₃ profiles. The FTIR O₃ amounts are obtained by applying the most advanced instrumentation and retrieval strategies and consequently represent the current potential of this remote sensing technique.

▣ [Final Revised Paper](#) (PDF, 815 KB) ▣ [Discussion Paper](#) (ACPD)

Citation: Schneider, M., Hase, F., Blumenstock, T., Redondas, A., and Cuevas, E.: Quality assessment of O₃ profiles measured by a state-of-the-art ground-based FTIR observing system, Atmos. Chem. Phys., 8, 5579-5588, 2008. ▣ [Bibtex](#) ▣ [EndNote](#) ▣ [Reference Manager](#)



Search ACP

Library Search

Author Search

News

- ▣ [Sister Journals AMT & GMD](#)
- ▣ [Financial Support for Authors](#)
- ▣ [Journal Impact Factor](#)
- ▣ [Public Relations & Background Information](#)

Recent Papers

01 | ACP, 20 Nov 2008:
Determination of the evaporation coefficient of D₂O

02 | ACPD, 19 Nov 2008:
Methyl chavicol: characterization of its biogenic emission rate, abundance, and oxidation products in the atmosphere

03 | ACPD, 19 Nov 2008:
Synoptic influences on springtime tropospheric O₃ and CO over the North American export region observed by TES