

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



▣ [Volumes and Issues](#) ▣ [Contents of Issue 1](#)

Atmos. Chem. Phys., 3, 259-266, 2003

www.atmos-chem-phys.net/3/259/2003/

© Author(s) 2003. This work is licensed under a Creative Commons License.

Strategies for measuring canonical tracer relationships in the stratosphere

O. Morgenstern^{1,*} and J. A. Pyle¹

¹Centre for Atmospheric Science, Chemistry Department, University, Cambridge, UK

* present address: Max-Planck-Institut für Meteorologie, Hamburg, Germany

Abstract. A high-resolution simulation of stratospheric long-lived trace gases is subsampled in ways resembling various commonly used measurement platforms. The resulting measurements are analyzed with respect to whether they allow an accurate determination of stratospheric tracer relationships, as a prerequisite for a quantification of mixing processes from them. By varying the simulated locations, frequencies, and, in the case of satellite data, accuracies of the measurements we determine minimal requirements that the measurements need to satisfy in order to be suitable for a derivation of tracer relationships.

▣ [Final Revised Paper](#) (PDF, 841 KB) ▣ [Discussion Paper](#) (ACPD)

Citation: Morgenstern, O. and Pyle, J. A.: Strategies for measuring canonical tracer relationships in the stratosphere, Atmos. Chem. Phys., 3, 259-266, 2003. ▣ [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 | ACPD, 10 Mar 2009: Characterization of organic ambient aerosol during MIRAGE 2006 on three platforms

02 | ACPD, 10 Mar 2009: Regional differences in organic composition of submicron and single particles during INTEX-B 2006

03 | ACPD, 10 Mar 2009: First steps towards the assimilation of IASI ozone data into the MOCAGE-PALM system