## Trace gas observations of the CRISTA-NF experiment during the SCOUT-O3 Tropical Aircraft Campaign

M. Riese, A. Kullmann, L. Hoffmann, K. Weigel, R. Spang and F. Stroh
(1) Institute for Chemistry and Dynamics of the Geosphere I, Research Centre Jülich, Germany

The Cryogenic Infrared Spectrometers and Telescopes for the Atmosphere – New Frontiers (CRISTA-NF) experiment onboard the Russian research aircraft Geophysica measures about 10 trace gases in the Upper Troposphere – Lower Stratosphere (UTLS) region with unprecedented spatial resolution (for a remote sensing instrument). The first scientific flights of this newly developed instrument took place during the SCOUT-O3 Tropical Aircraft Campaign (EU, FP 6) in November and December 2005. This paper presents first results of trace gas observations during SCOUT-O3 (e. g. CFCs, water vapour) with emphasis on dynamical structures in the vicinity of the tropical and extra-tropical tropopause.