



## **Comparison of Tropospheric Ozone Columns as seen by SCIAMACHY using Limb-Nadir-Matching with tropospheric Ozone Columns from Ozonesondes**

S. Bötzel, A. Ladstätter-Weißmayer, F. Ebojje, C. von Savigny, and J.P. Burrows

Institute of Environmental Physics, Universität Bremen, Bremen, Germany (boetel@iup.physik.uni-bremen.de)

SCIAMACHY (Scanning Imaging Absorption Spectrometer for Atmospheric Cartography) launched in March 2002 measures sunlight, transmitted, reflected and scattered by the earth atmosphere or surface (240 nm - 2380 nm). SCIAMACHY measurements yield the amounts and distribution of  $O_3$ ,  $BrO$ ,  $OCIO$ ,  $ClO$ ,  $SO_2$ ,  $H_2$ ,  $CO$ ,  $NO_2$ ,  $CO$ ,  $CO_2$ ,  $CH_4$ ,  $H_2O$ ,  $N_2O$ ,  $p$ ,  $T$ , aerosol, radiation, cloud cover and cloud top height in limb as well as nadir mode. With its collocated limb and nadir measurements limb-nadir-matching can be used to determine tropospheric ozone columns from SCIAMACHY limb and nadir measurements. In this study these tropospheric columns will be compared to those determined by Ozonesondes.