



## **Tropospheric Ozone Columns During Biomass Burning Events as Seen from SCIAMACHY Using Limb-Nadir-Matching**

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SCIAMACHY (Scanning Imaging Absorption Spectrometer for Atmospheric ChartographY) 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<sub>3</sub>, BrO, OCIO, ClO, SO<sub>2</sub>, H<sub>2</sub>CO, NO<sub>2</sub>, CO, CO<sub>2</sub>, CH<sub>4</sub>, H<sub>2</sub>O, N<sub>2</sub>O, 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. Using this method a number of case studies of recent biomass burning events will be shown.