Geophysical Research Abstracts Vol. 12, EGU2010-14685, 2010 EGU General Assembly 2010 © Author(s) 2010



Investigation of Tropospheric Ozone during El Niño events using SCIAMACHY

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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 O3, BrO, OClO, ClO, SO2, H2CO, NO2, CO, CO2, CH4, H2O, N2O, p, T, aerosol, radiation, cloud cover and cloud top height in limb as well as nadir mode. The influence of El Niño events on the concentrations of tropospheric Ozone will be investigated using the Reference-Sector-Method and the Limb-Nadir-Matching method. A comparison of both methods highlighting advantages and disadvantages will be shown.