



A time series has been constructed of tropospheric NO<sub>2</sub> columns derived from GOME and SCIAMACHY observations in the 10-year period 1996–2006. By analysing the seasonal cycle, annual variability and the height of NO<sub>2</sub> column, the dominant source type (anthropogenic, soil, biomass burning or lightning) of the measured NO<sub>2</sub> can be identified. From van der A et al. (2008).