Geophysical Research Abstracts, Vol. 8, 09148, 2006
SRef-ID: 1607-7962/gra/EGU06-A-09148

Satellite Validation of tropospheric Trace Gases with MAX-DOAS Measurements during the DANDELIONS Field Campaign

H. Oetjen (1), E. Brinksma (2), A. Richter (1), F. Wittrock (1) and J. P. Burrows (1)

(1) Institute of Environmental Physics, University of Bremen, 28334 Bremen, Germany, (2) Royal Netherlands Meteorological Institute (KNMI), 3730 AE De Bilt, the Netherlands (contact e-mail: hilkeo@uni-bremen.de)

This study presents time series for tropospheric amounts of nitrogen dioxide (NO2), formaldehyde (HCHO) and glyoxal (CHOCHO) retrieved from MAX-DOAS measurements at the DANDELIONS field campaign that took place at Cabauw (Netherlands) from May to July 2005. These results are compared to independent ground-based and SCIAMCHY satellite data. It is shown that the multi-axis-DOAS technique in combination with an automated profile retrieval is a powerful tool in establishing long-term observations of tropospheric trace gases and facilitating the validation of tropospheric column amounts from satellite instruments.