



## One year of GOME-2 measurements of tropospheric species

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Satellite measurements of tropospheric composition are a rapidly developing field in atmospheric research. One of the most interesting aspects of space based observations is their global and long-term coverage. In order to maintain a continuous and consistent data set, measurements from different platforms have to be thoroughly compared and homogenised.

The GOME-2 (Global Ozone Monitoring Experiment) series of UV/visible spectrometers operating from the MetOp platforms will provide a long-term continuation of the existing time series of the GOME and SCIAMACHY instruments. GOME-2 is very similar to GOME but has improved spatial resolution ( $40 \times 80 \text{ km}^2$ ) and global coverage within 1.5 days. The first of the three GOME-2 instruments was launched into a sun-synchronous orbit in October 2006 and has been providing operational data since March 2007.

In this presentation, an overview will be given on the current status of tropospheric products derived from measurements of GOME-2 at the University of Bremen. The focus will be on comparison with results from SCIAMACHY and OMI to assess the consistency of the measurements, to study the effect of spatial and temporal sampling and to investigate the effect of different time of measurement.