VALIDATION OF THE ENVISAT ATMOSPHERIC CHEMISTRY INSTRUMENTS BY CORRELATIVE MEASUREMENTS OF MIPAS-STR

C. E. Blom, T. Gulde, M. Höpfner, C. Keim, G. Y. Liu, C. Piesch and C. Sartorius
Institut für Meteorologie und Klimaforschung, Forschungszentrum Karlsruhe, Germany.
(cornelis.blom@imk.fzk.de/Fax +49-7247-824742)

MIPAS-STR has been operated from the high altitude aircraft M55-Geophysica during several flights at middle and high latitudes. The flights were dedicated to the validation of the Envisat atmospheric chemistry instruments with emphasis on the MIPAS validation. By a combination of continuous limb sounding and upward measurements two-dimensional distributions of the temperature and of several trace gases have been derived.

After a short description of relevant details of the MIPAS-STR instrument and an overview of the flights made during the campaigns from Forli (July and October 2002) and Kiruna in (February/March 2003), we present first results on the validation of the on-line MIPAS processor of ESA.