

MIPAS-B observations for the validation of target parameters of ENVISAT chemistry instruments

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Embedded in the ENVISAT validation programme of the chemistry instruments GOMOS, MIPAS, and SCIAMACHY three balloon flights were carried out with MIPAS-B, the balloon borne version of MIPAS. The first one at mid-latitudes during the night of 24/25 September 2002 from Aire sur l'Adour, France, adjusted to the night-time overpass of orbit 2975. The second one in the late winter arctic vortex on 20/21 March 2003 from Kiruna, Sweden, matching evening and morning overpasses of ENVISAT (orbits 5508 and 5515) and the third one in the midnight sun from the same location on 2/3 July 2003 (ENVISAT orbits 6996 and 7004). This paper outlines some instrumental characteristics of MIPAS-B, the observation and validation strategy, the data processing and compares MIPAS-B results to ENVISAT results that have been available so far.