Session: C15 Poster: T91B

The SPARC Data Initiative - MIPAS climatologies of atmospheric trace gases

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Within the SPARC Data Initiative (Hegglin and Tegtmeier, 2011), monthly zonal averages of vertically resolved mixing ratios of stratospheric constituents measured by MIPAS have been generated. These climatologies include O3, H2O, CH4, N2O, NO, NO2, HNO3, HNO4, N2O5, ClONO2, ClO, CO and other species for the years 2002-2010 as well as HOCl for the years 2002-2004. These data contain both episodes of energetic particle precipitation as well as quiescent periods and cover the whole globe at 5 degrees latitude resolution and at 28 pressure levels. For species with pronounced diurnal variation, am and pm measurements are reported separately. These data are considered useful both for initialization as well as validation of models.