

Global Long-Term MIPAS Data Processing

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Project

- of 30 gases in the middle atmosphere
- models



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red: current V8 H2O, black: V8 with horizontal H2Ogradient. Asterix: 2002-2004, triangle: 2005-2012 data. Plot title: microwave instrument stations.

vertical scales.

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Spectral data is stored as archives comprising 35 days of data at the HPSS Due to restrictions wrt the use of /tmp on the nodes only 6000 processors can be used safely in parallel

collection of preprocessed data into archives, according to the chosen size of jobs on the HAWK transfer of archives containing preprocessed data from IMK to the \\$WORK directory in parallel: extraction of the necessary spectral data from the HPSS to the \\$WORK directory submission of compute jobs, i.e. retrieval (core processing step) with the Retrieval Control Program on

postprocessing on HAWK to generate some elementary result diagnostics and corresponding diagnostics

collection of results into archives and transfer of result and diagnostics data back to IMK

summer, and fall (from top to bottom). Note different



Fig. 3 Monthly means of CO in the middle atmosphere. The rows show, from top to bottom: northern winter (DJF), northern spring (MAM), northern summer (JJA), and northern fall (SON). The depicted values are common logarithms of the CO volume mixing ratio (pppmv).

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