



## **Transport of ozone, methane and water vapour as seen by MIPAS**

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Analyses of ozone, methane and water vapour derived from MIPAS observations using a new data assimilation technique will be presented. The combination of three long lived tracers with different source distributions provides useful information about transport properties within the stratosphere and transport into the stratosphere from the mesosphere and troposphere. The assimilation model used does not represent chemistry or vertical advection explicitly, but allows the fields to adjust continuously to track the observations.