Geophysical Research Abstracts, Vol. 8, 07724, 2006 SRef-ID: 1607-7962/gra/EGU06-A-07724 © European Geosciences Union 2006



MIPAS assimilation by **BASCOE**

Q. Errera (1), P. Raspollini (2), S. Ceccherini (2), M. Ridolfi (3), S. Chabrillat (1), F. Daerden (1), S. Bonjean (1) and D. Fonteyn (1)

(1) Begian Institute for Space Aeronomy (BIRA–IASB), Brussels, Belgium, (2) Istituto di Fisica Applicata "Nello Carrara" (CNR.IFAC), Florence, Italy, (3) Dip.to di Chimica Fisica e Inorganica, Università di Bologna, Italy

MIPAS observations have been assimilated by the Belgian Assimilation System of Chemical Observations from Envisat (BASCOE) from October 2002 to March 2004 (18 months). BASCOE is a 4D-VAR system based on a 3 dimensional chemical transport model driven by ECMWF analysis. BASCOE analysis are provided using MIPAS off-line data version where O3, HNO3, NO2, N2O, CH4 and H2O are assimilated. For a shorter period, from 20th September 2003 to 4th October 2003 (15 days), BASCOE has also assimilated two set of non-standard MIPAS level 2 data. The first one uses the 2-Dimensional inversion algorithm Geo- Multi- Target Retrieval (GMTR) and invert same species than the off-line products. The second one uses the Optimized Retrieval Model (ORM) to retrieve species that are not provided in the off-line products: CIONO2, N2O5, CFC-11 and CFC-12. This communication will present selected results from these analyses.