Geophysical Research Abstracts, Vol. 7, 01746, 2005 SRef-ID: 1607-7962/gra/EGU05-A-01746 © European Geosciences Union 2005



Impact of ENSO on the UT/LS Ozone Distributions in the Unified Model

P. Braesicke (1), G. Zeng (1) and J. Pyle (1)

(1) NCAS-ACMSU and CAS University of Cambridge, Cambridge, UK

The El Niño/Southern Oscillation (ENSO) phenomenon is well known for its spatially far reaching impacts on meteorology. Nevertheless it is not a trivial task to assess the impact of ENSO on trace gases like ozone. Recently a tropospheric model study found evidence for increased tropospheric ozone after an extreme El Niño event. We will investigate the upper tropospheric and lower stratospheric signal in ozone due to ENSO using different versions of the Met Office's Unified Model with a variety of different chemistry schemes. We will analyse the interplay of different latitude and height regions in the models and the compatibility of results derived for model setups using either tropospheric or stratospheric chemistry.