

3D CTM Study of Polar Ozone Loss During 1999-2003

Wuhu Feng and Martyn Chipperfield

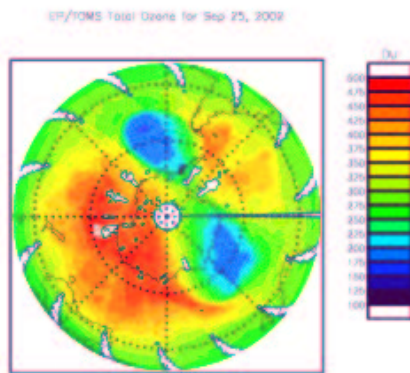
School of the Environment, University of Leeds, Leeds, LS2 9JT, U.K

Howard Roscoe

British Antarctic Survey, Madingley Road, Cambridge, CB3 0ET, U.K.

fengwh@env.leeds.ac.uk; martyn@env.leeds.ac.uk; HKRO@bas.ac.uk

1. Introduction

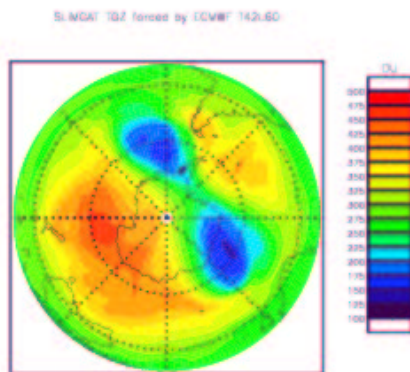


2. SLIMCAT 3D-CTM

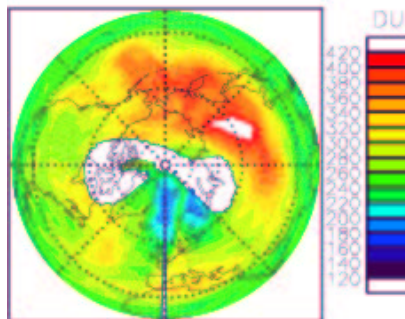
3. Comparison with observation

3.1) Antarctic Ozone hole split

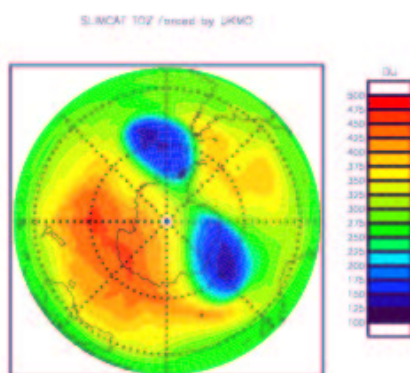
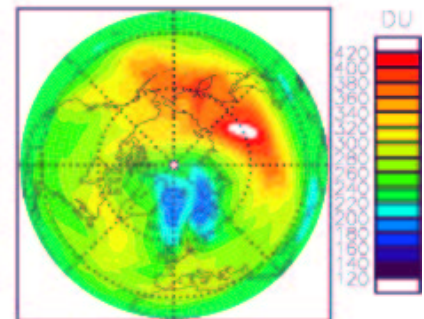
3.2) Arctic winter deep minihole event (Dec. 6, 2002)



GOME TOZ on 6/12/2002



SLIMCAT TOZ on 6/12/2002



4. Modelled Ozone loss rate

5. Contribution of various catalytic cycle to ozone loss

6. Conclusion