

# SCOUT-O3/ CCMVal data request

27 February 2007

Dear CCM modellers,

during the SCOUT-O3 modelling meeting in Paris from 18-20 December 2006 it was discussed how CCMs can profit from the measurements, taken during the SCOUT-O3 aircraft campaign in Darwin during November/December 2005.

Currently there is only one CCM run (ECHAM5/MESSy) available, with nudged meteorological conditions that cover the time period of November/December 2005. Only for this CCM a direct validation is possible.

Nevertheless we agreed to validate the CCMs against the SCOUT-O3 aircraft campaign data in a climatological sense for monthly mean data of the 1980 – 1999 core period of the REF1 CCM runs. Besides the Darwin campaign a second aircraft campaign took place in August 2006 in Ouagadougou, Burkina Faso, West Africa.

We will analyse the regional and seasonal differences of the models, and compare them with the mean profiles of the campaign measurements.

Therefore we want to asked for data for the months **August, November and December** of each of the years **from 1980 – 1999**.

Please send us **3-dimensional fields** for the following variables:

T - temperature  
U - zonal wind  
V - meridional wind  
W - vertical velocity  
SHR - short wave heating rates  
LHR - long wave heating rates  
H2O - water vapour  
LWC - liquid water content  
IWC - ice water content  
O3 - ozone  
CO - carbon monoxide  
H1112 - Halon 1112  
CFC12- CFC 12  
CFC11- CFC 11  
CH4 - methane  
NO - NO  
NOY - NO<sub>y</sub>

To keep the amount of data as small as possible, only data between **45 N to 45 S** and **1000-hPa – 50-hPa** is necessary.

The data should be provided on the following pressure levels:

1000, 850, 700, 500, 400, 300, 250, 200, 170, 150, 130, 115, 100, 90, 80, 70, 50.

To avoid data problems due to different platforms, please send the data in **netCDF format**.

The files should be stored at the BADC (British Atmospheric Data Centre), where a working space is available for CCMVal.

The file name convention for your data should follow the rule:

MODEL\_lonlat\_MONTH.nc

where MODEL should be replaced by the name of your model and MONTH by the specific month.

For instructions how to get access to the ftp site, please see:

[http://www.pa.op.dlr.de/CCMVal/BADC\\_FTPinstructions.pdf](http://www.pa.op.dlr.de/CCMVal/BADC_FTPinstructions.pdf)

With best regards,

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