

MIPAS maps of mean distribution: 04-APR-2012

Measurement Mode: Nominal Mode (7 - 72 km)

Processor version: MIPAS/5.06-N

Note to users

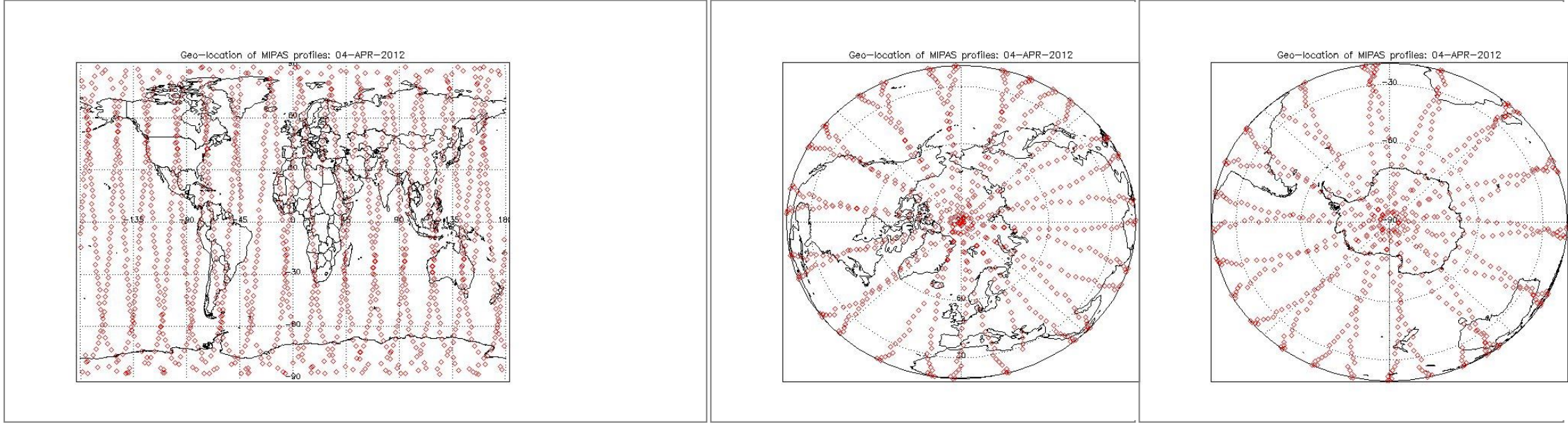
The following filtering criteria were applied: non convergent profiles or retrievals with chi-2 exceeding a predefined limit are removed from the maps.
 The filtering criteria are explained in the Readme file for V5, available [here](#).
 Statistics on filtered profiles for each target parameter are provided in the table below.
 The retrieved geo-pysical products are interpolated at different Teta levels.
 The data is then interpolated to a fixed Lat/Lon grid using a weighted distance average.
 Note that Upper and Middle Atmosphere measurements are only retrieved up to 70km.

Total Number of profiles: 1336

Retrieved Parameter	Profiles not reaching convergence (%)	Profiles exceeding chi2 threshold (%)
p-T	4.42	0.37
H2O	4.49	0.07
O3	4.87	1.27
HNO3	4.49	1.27
CH4	4.72	3.37
N2O	5.09	0.52
NO2	4.42	0.07

Geo-location of MIPAS profiles

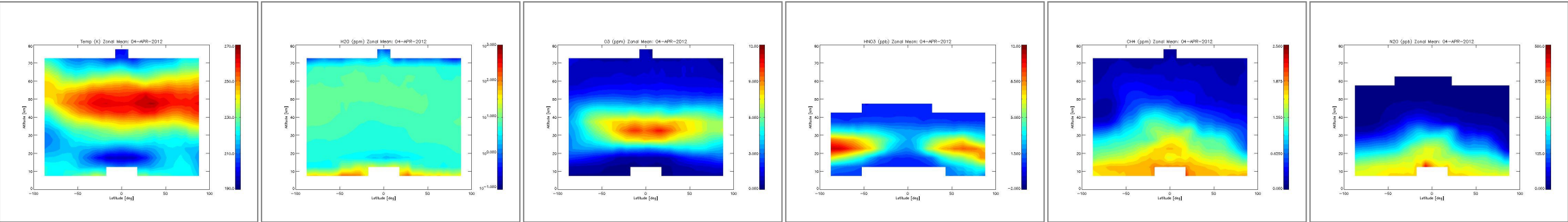
Click on the figure to enlarge



Zonal Mean Maps

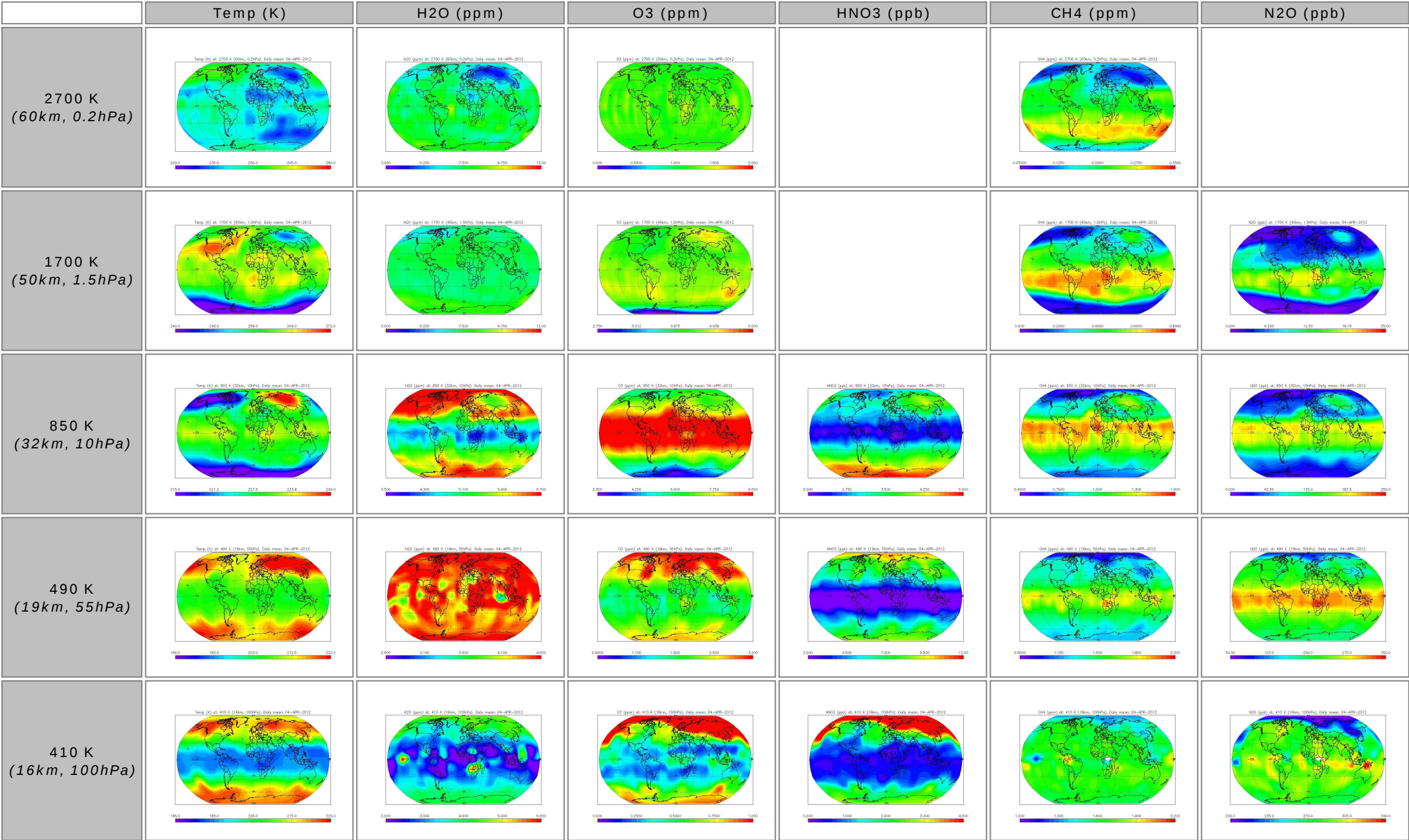
Click on the figure to enlarge

Temp (K)	H2O (ppm)	O3 (ppm)	HNO3 (ppb)	CH4 (ppm)	N2O (ppb)
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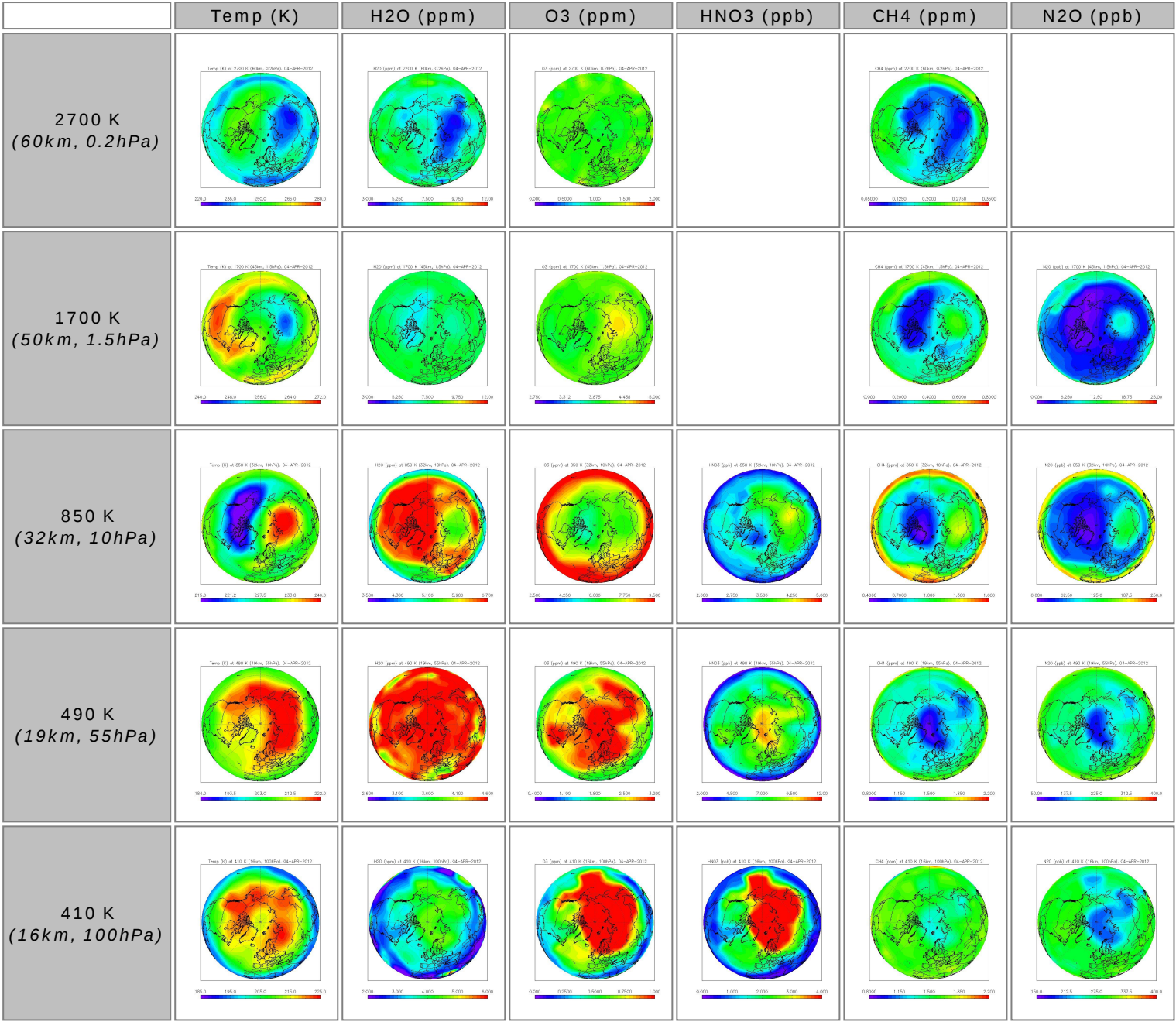
Daily mean interpolated at different isentropic levels

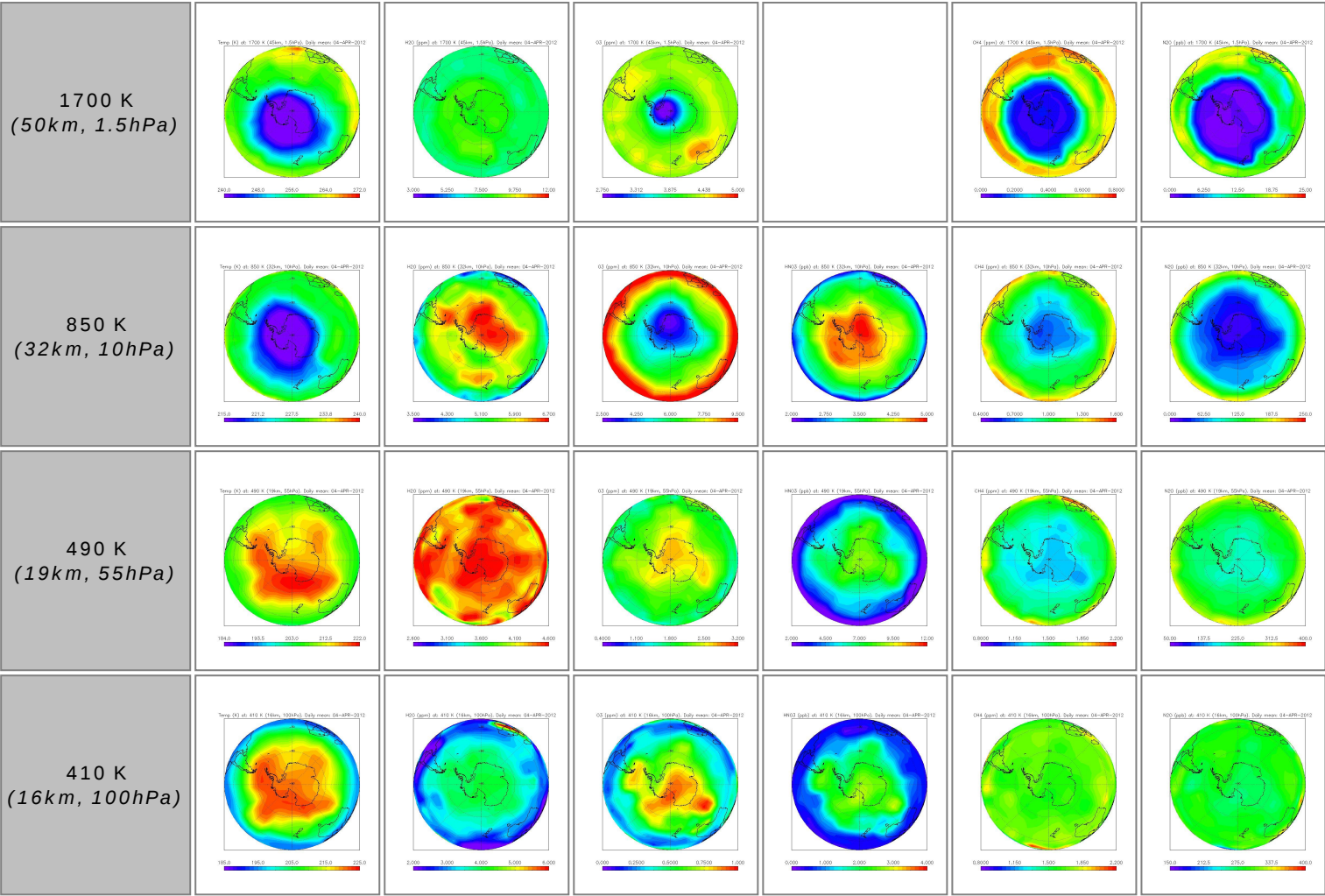
Click on the figure to enlarge



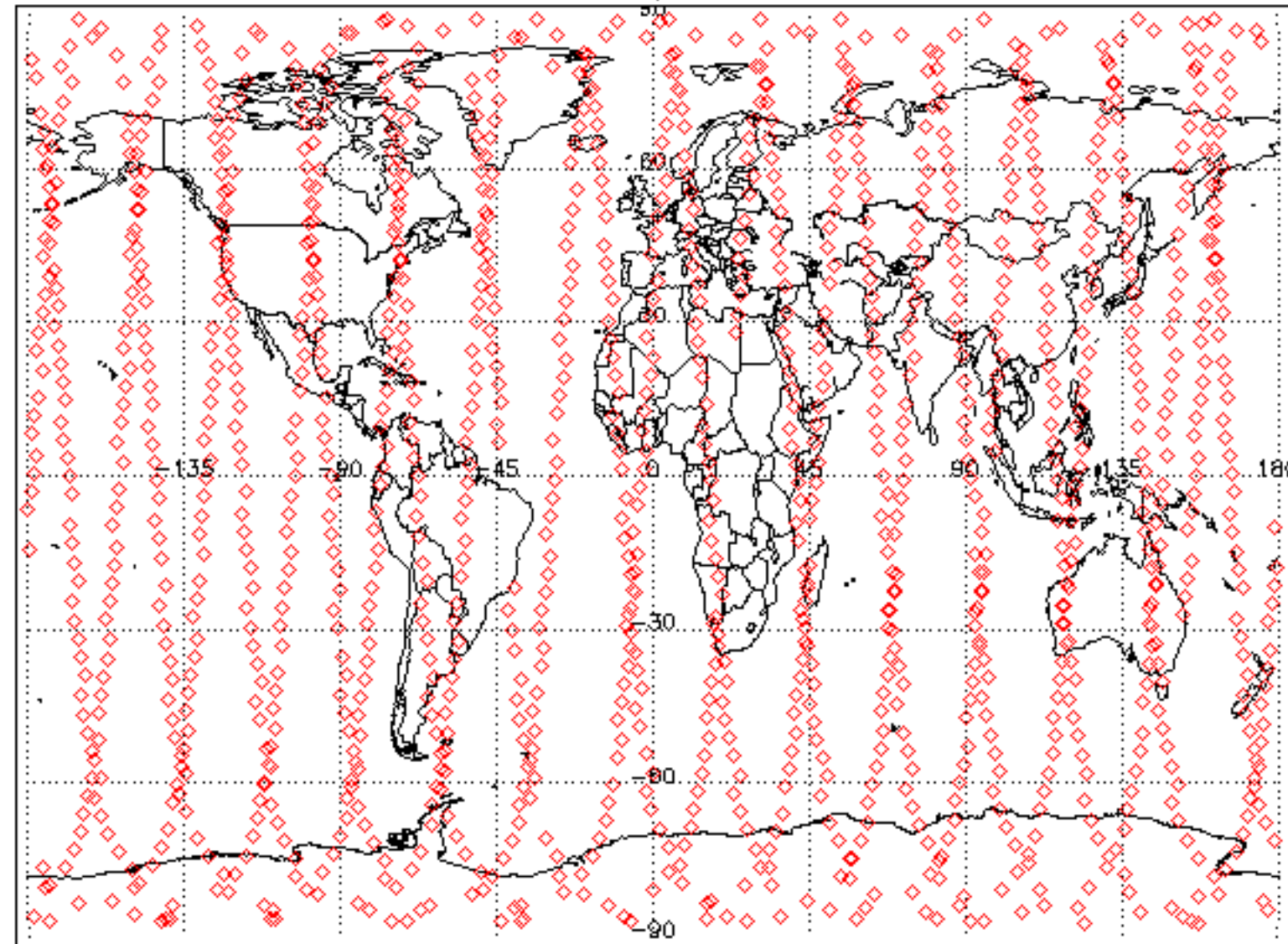
Arctic distribution interpolated at different isentropic levels

Click on the figure to enlarge

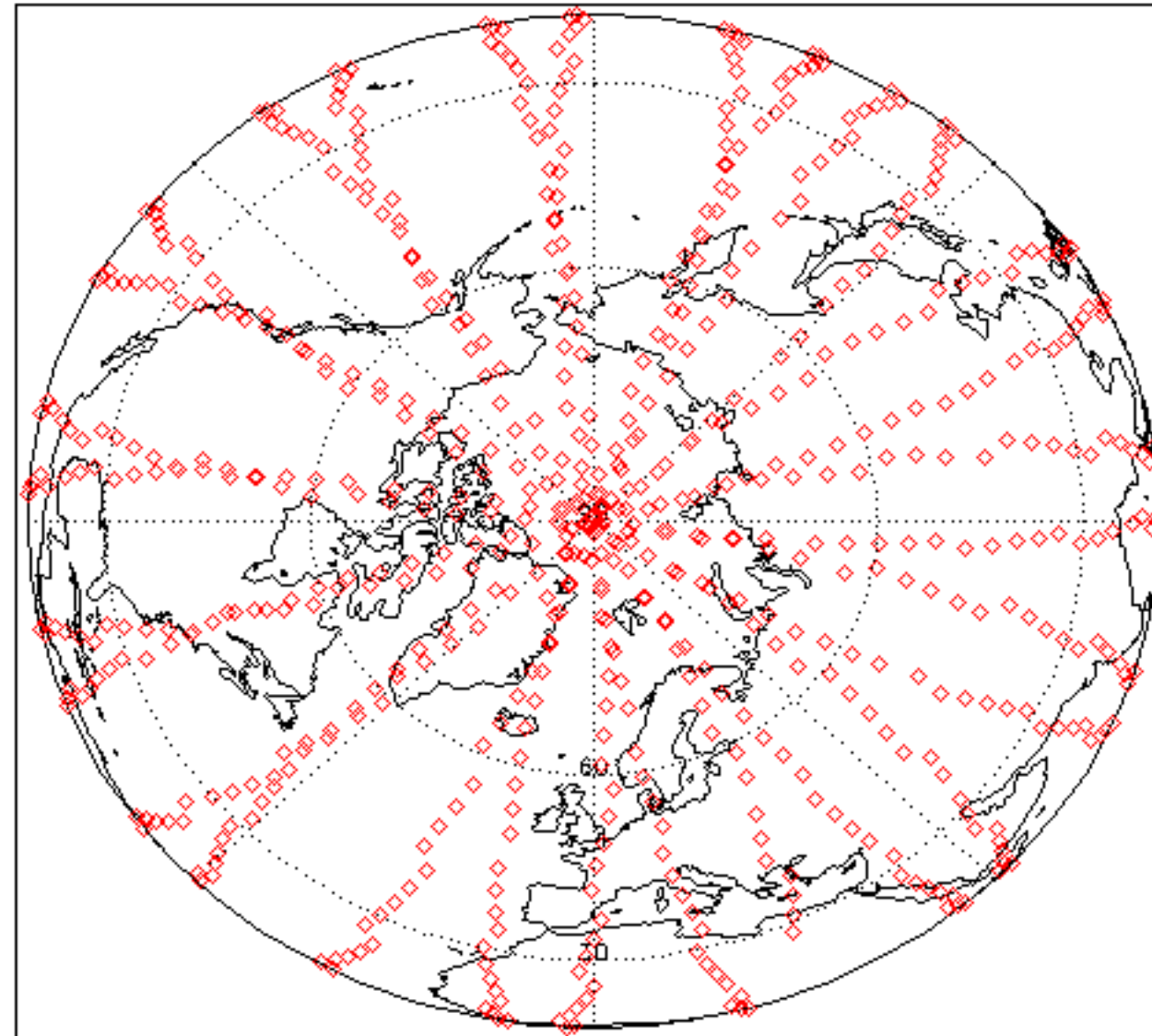




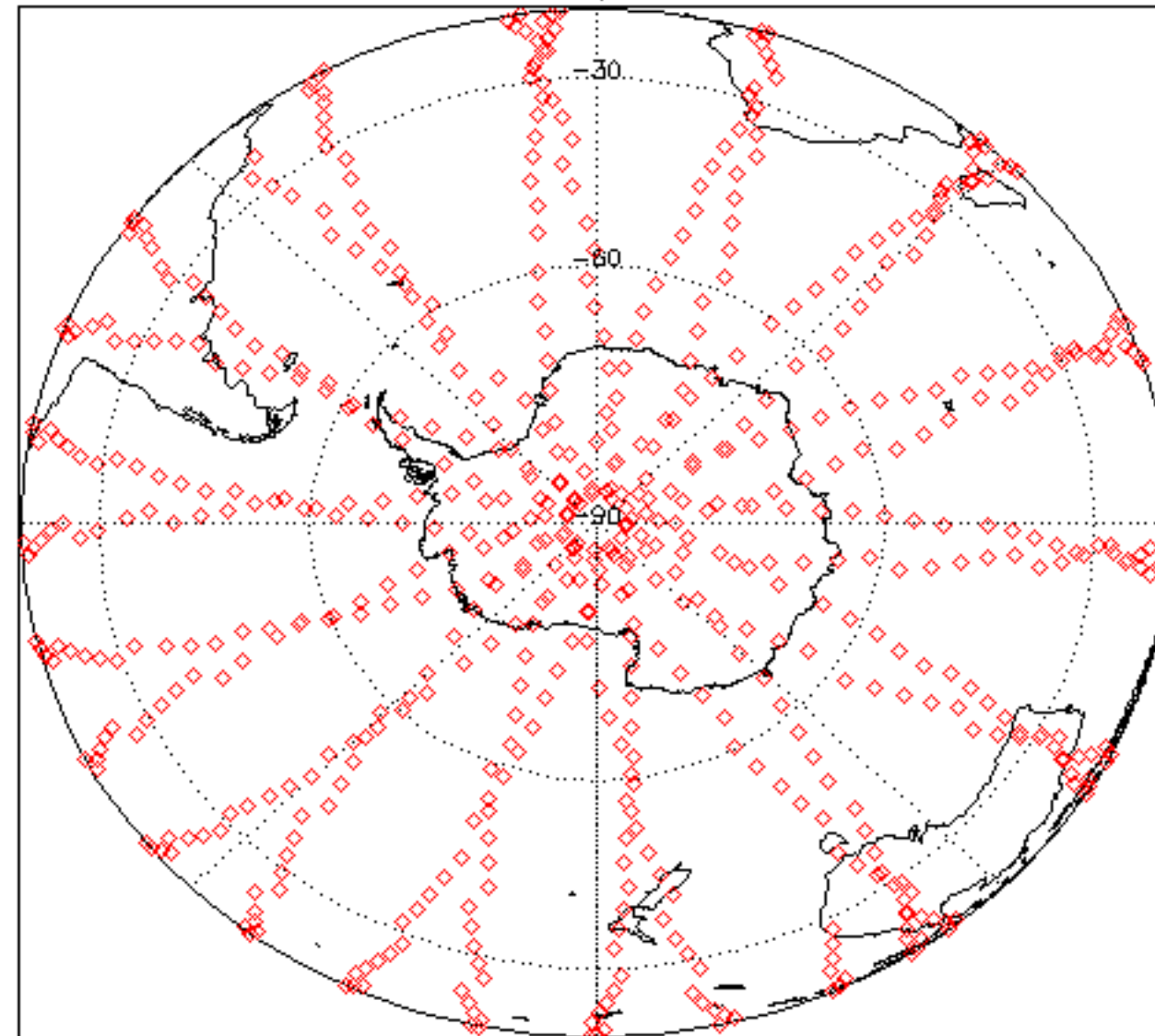
Geo-location of MIPAS profiles: 04-APR-2012

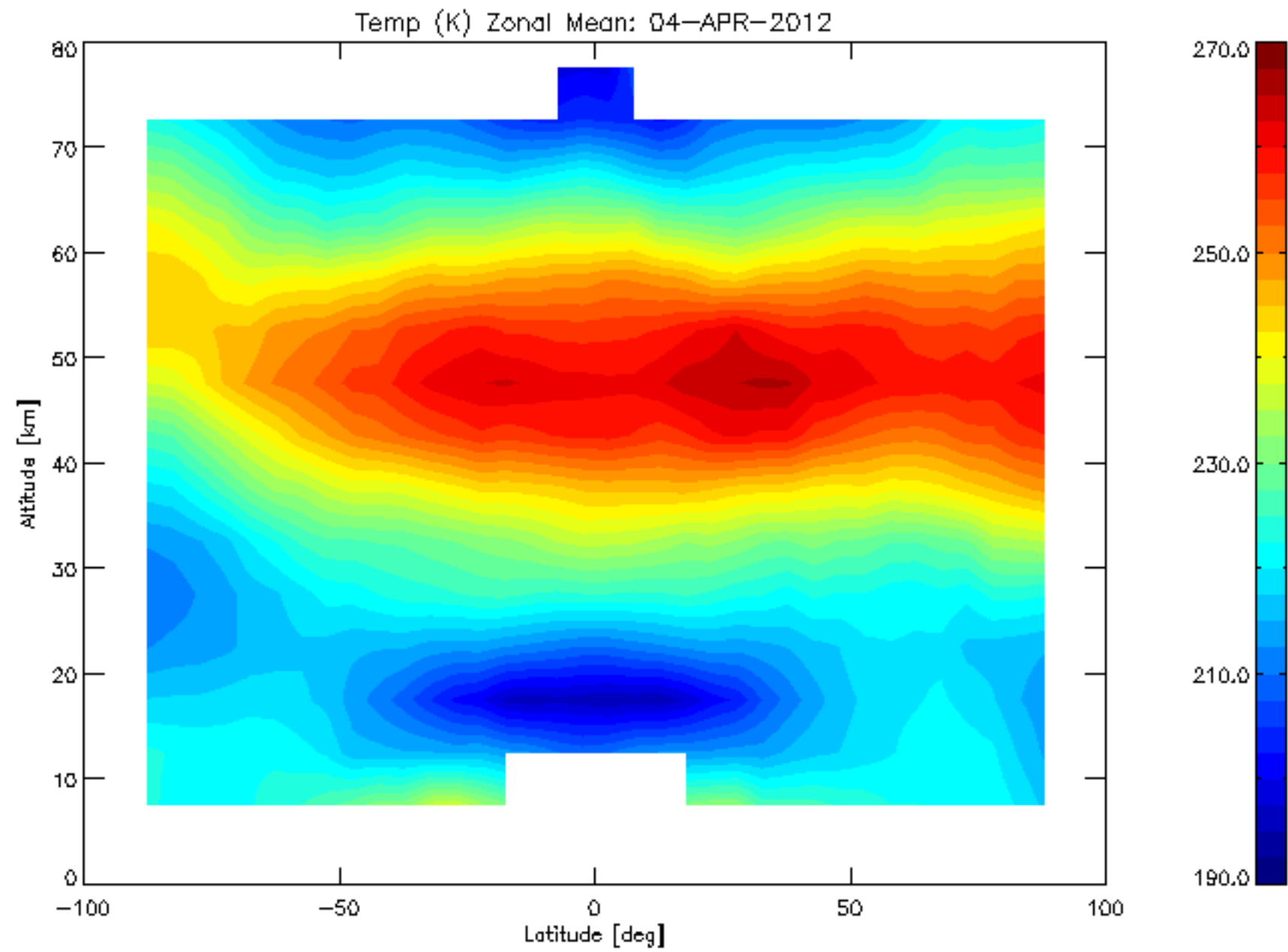


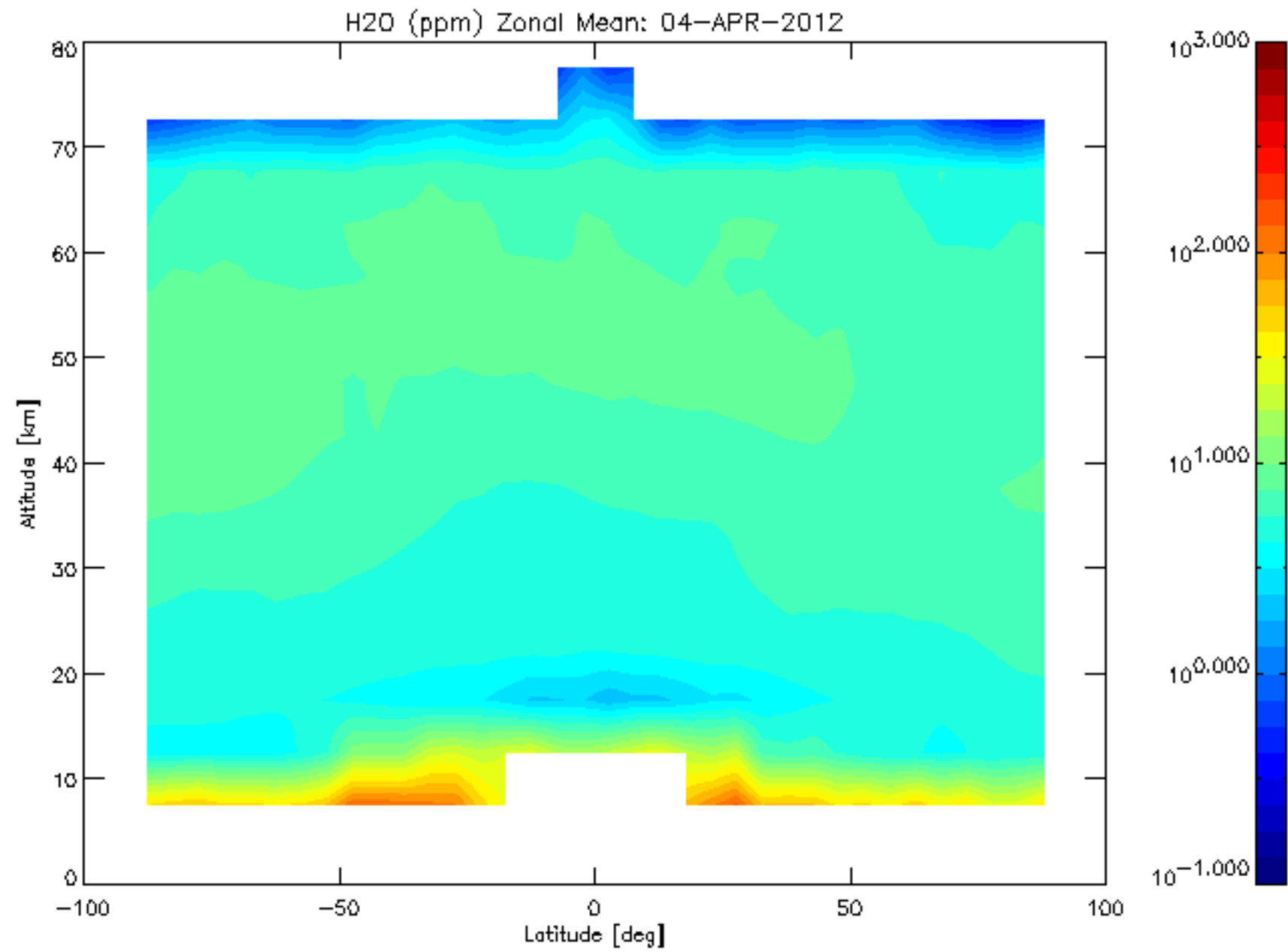
Geo-location of MIPAS profiles: 04-APR-2012

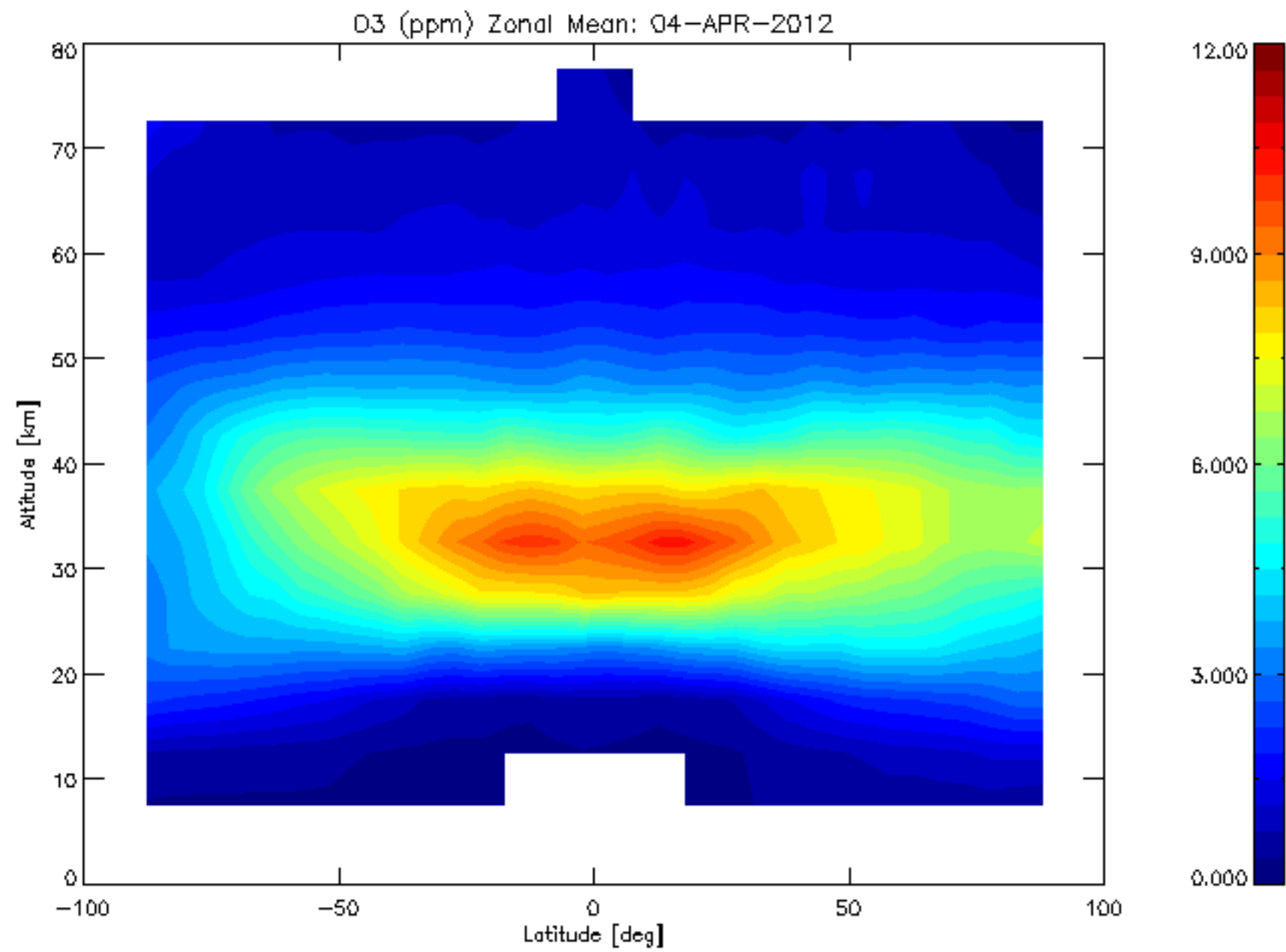


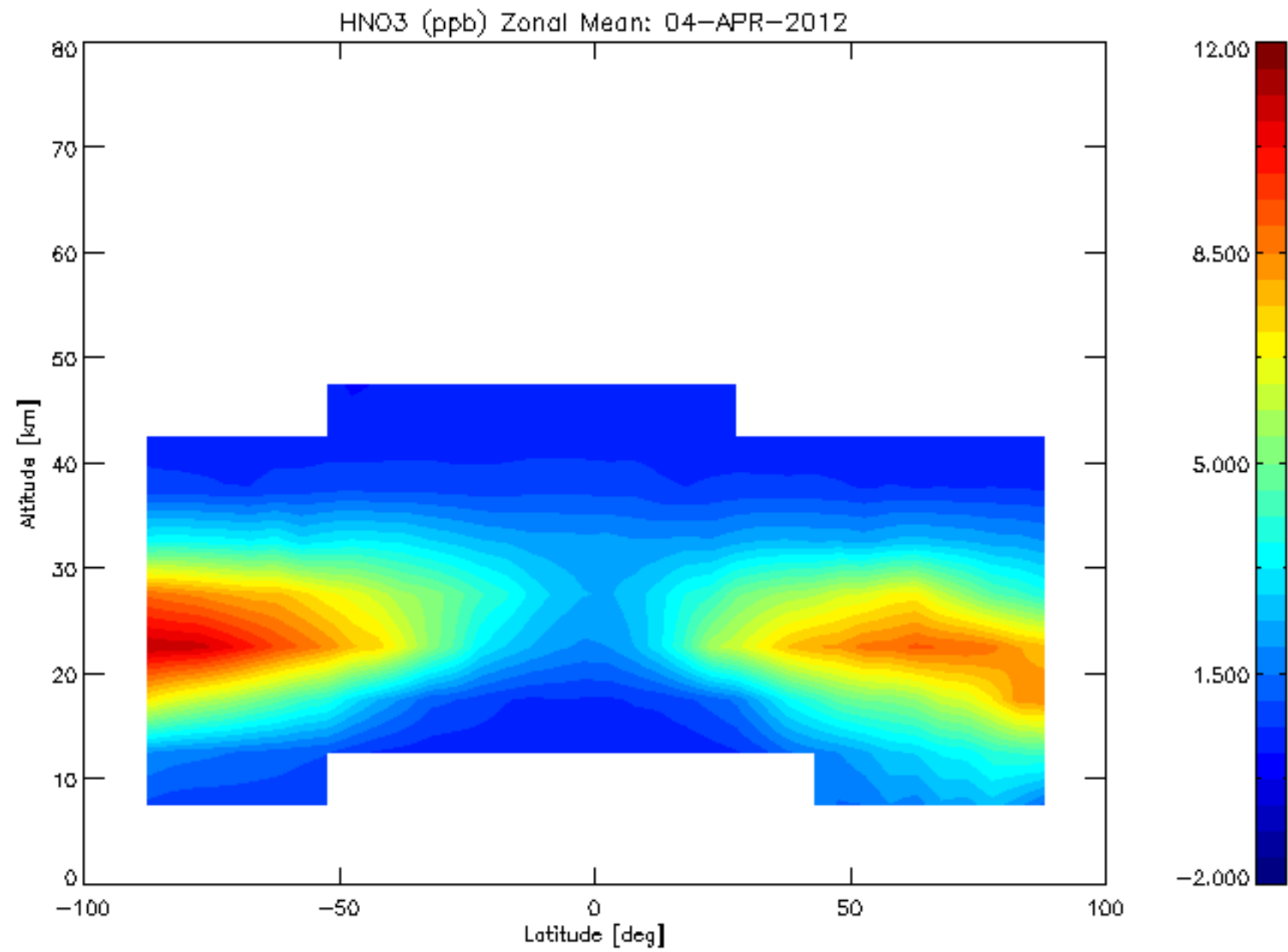
Geo-location of MIPAS profiles: 04-APR-2012

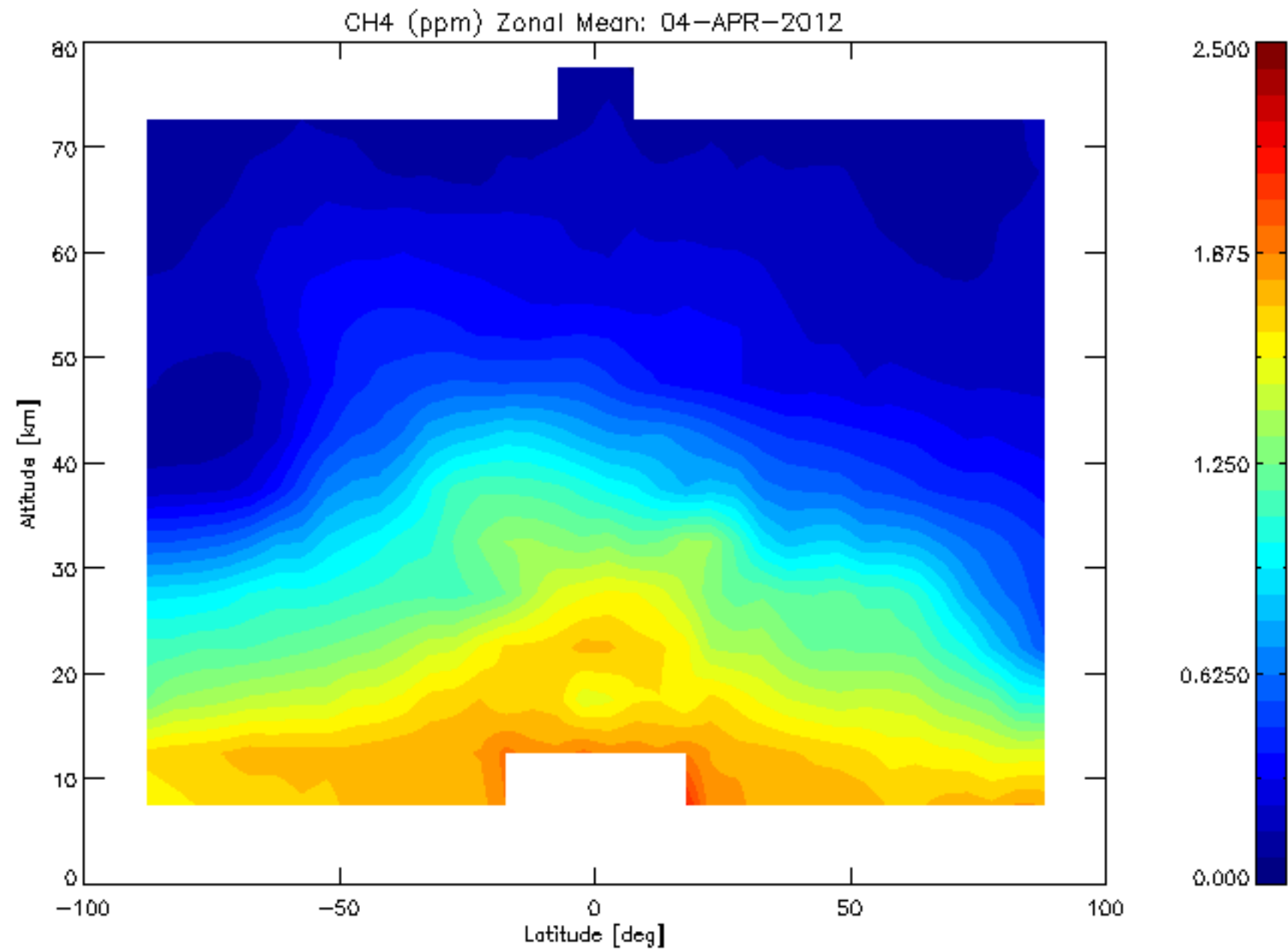


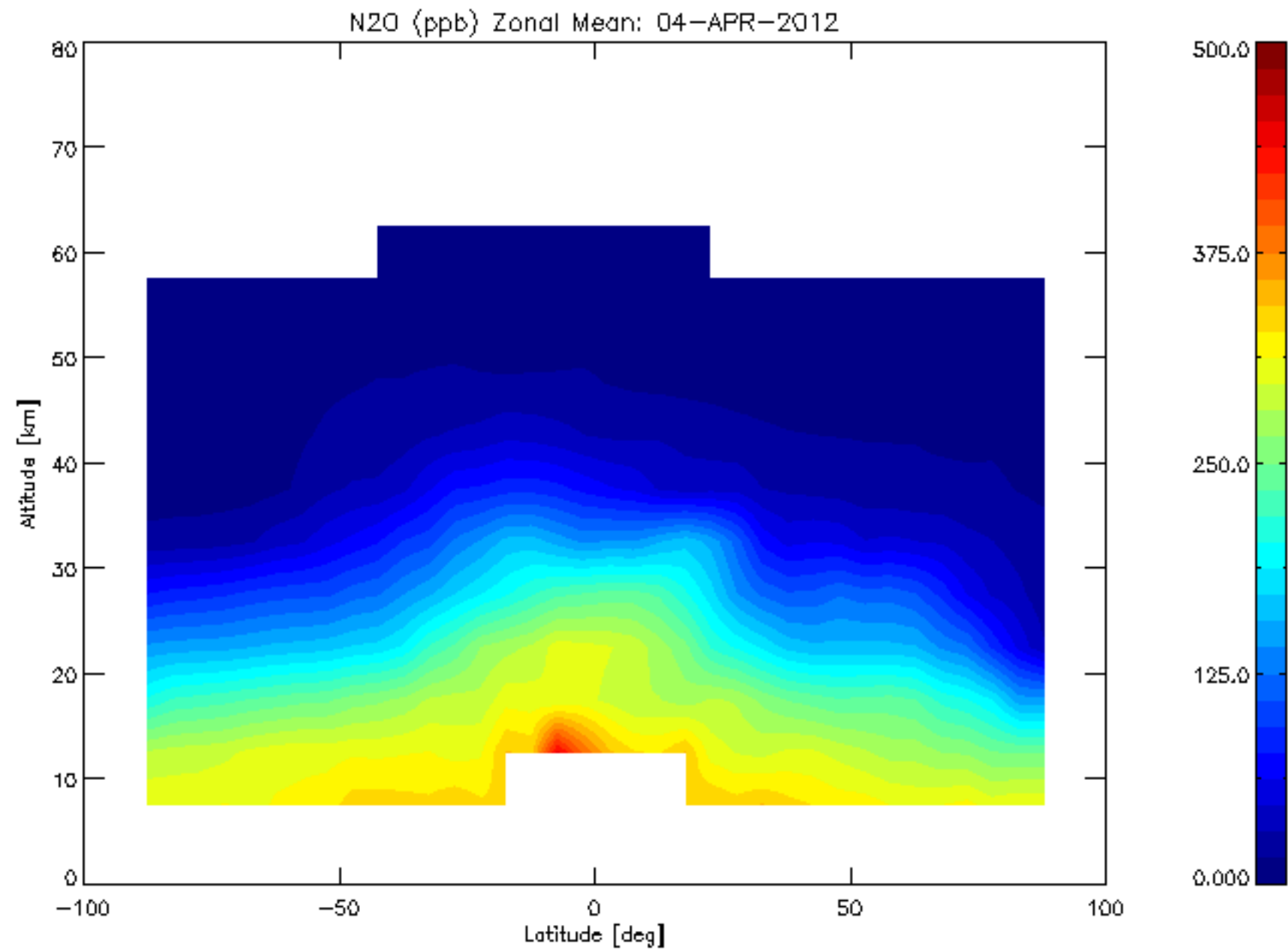




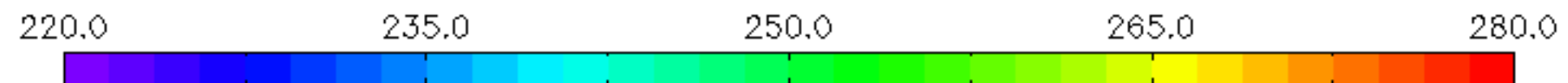
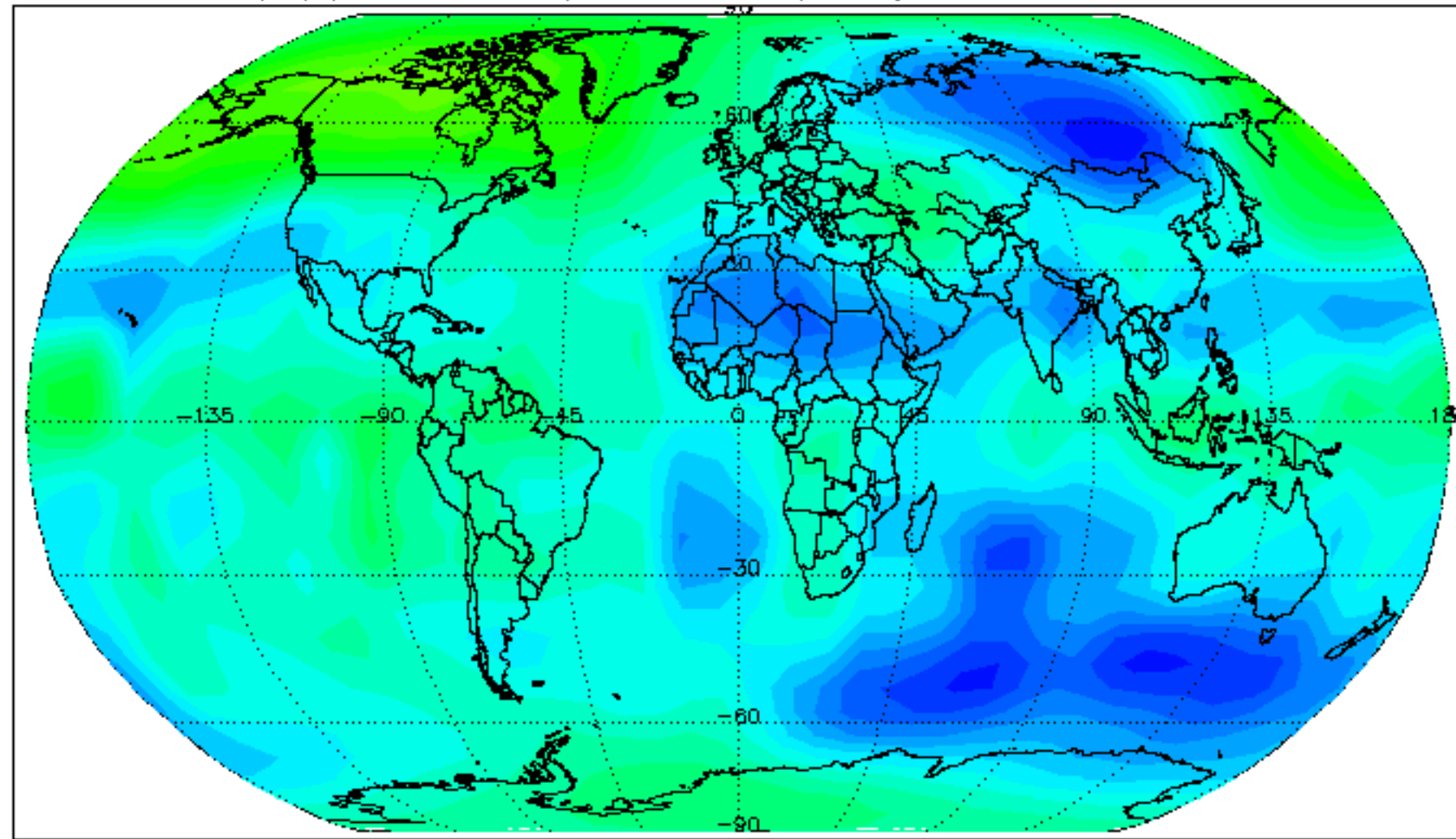




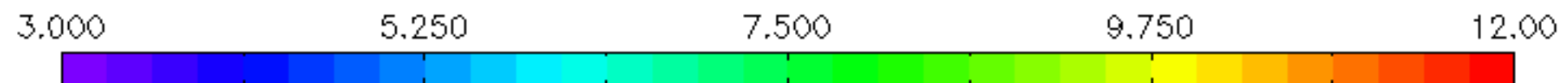
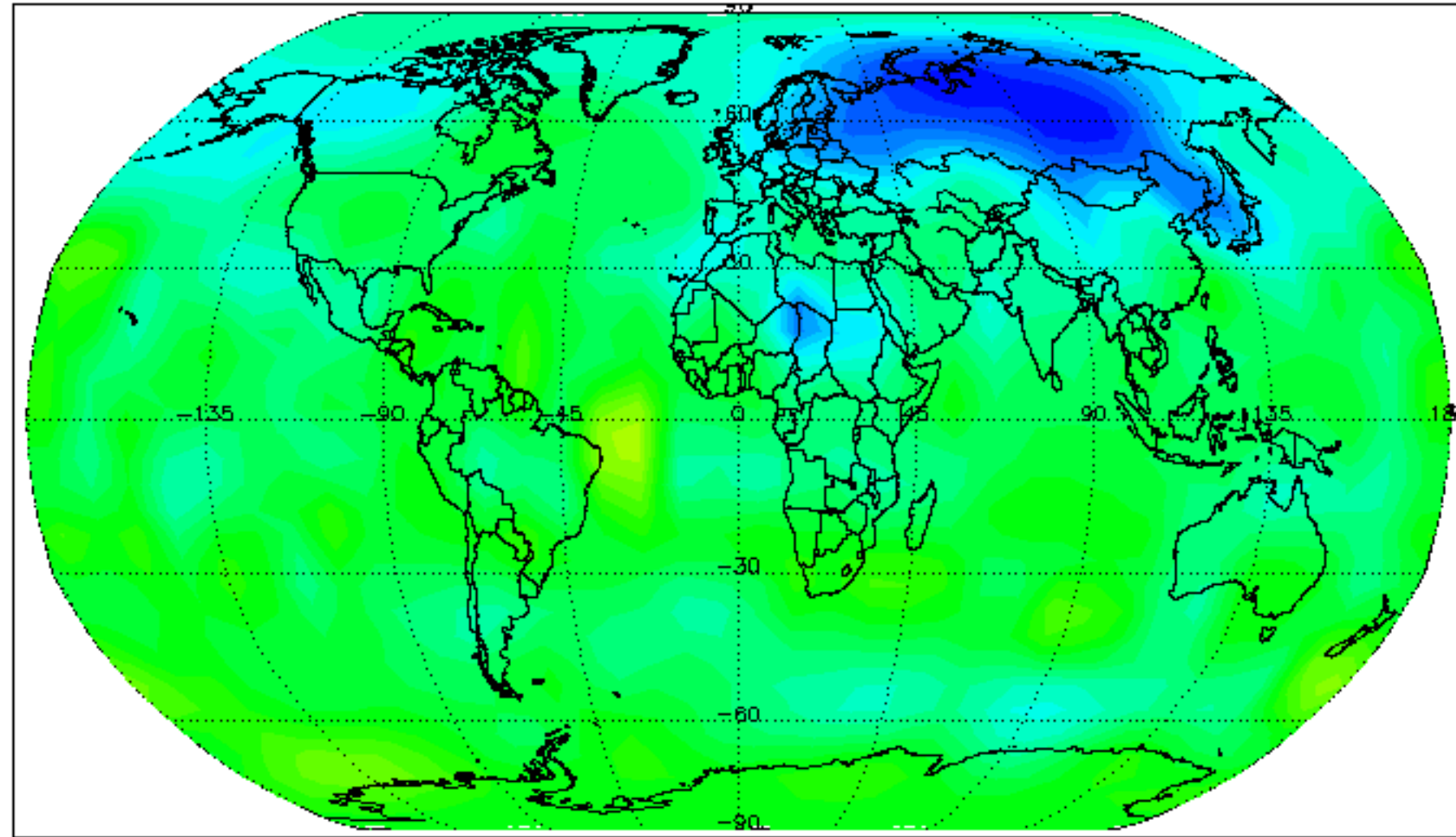




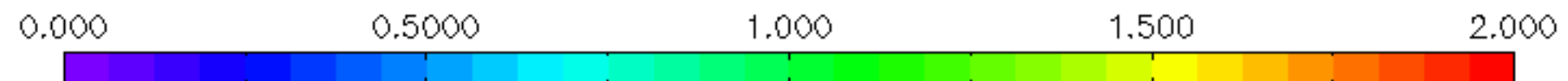
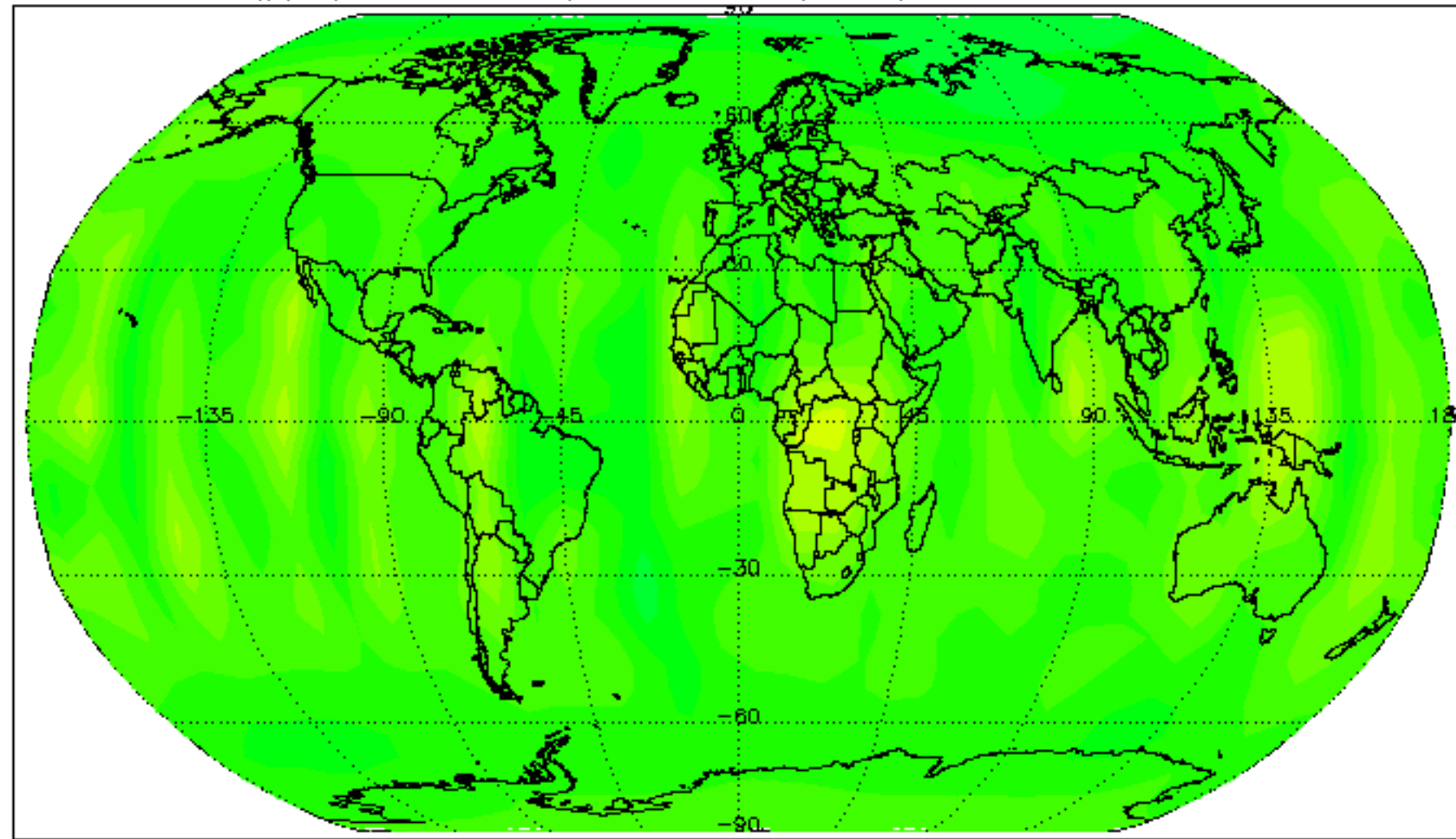
Temp (K) at: 2700 K (60km, 0.2hPa). Daily mean: 04-APR-2012



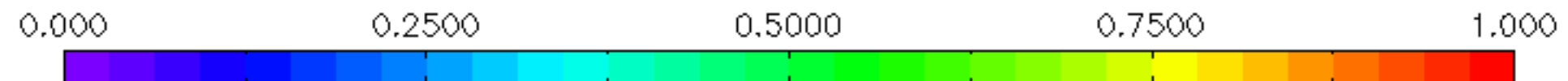
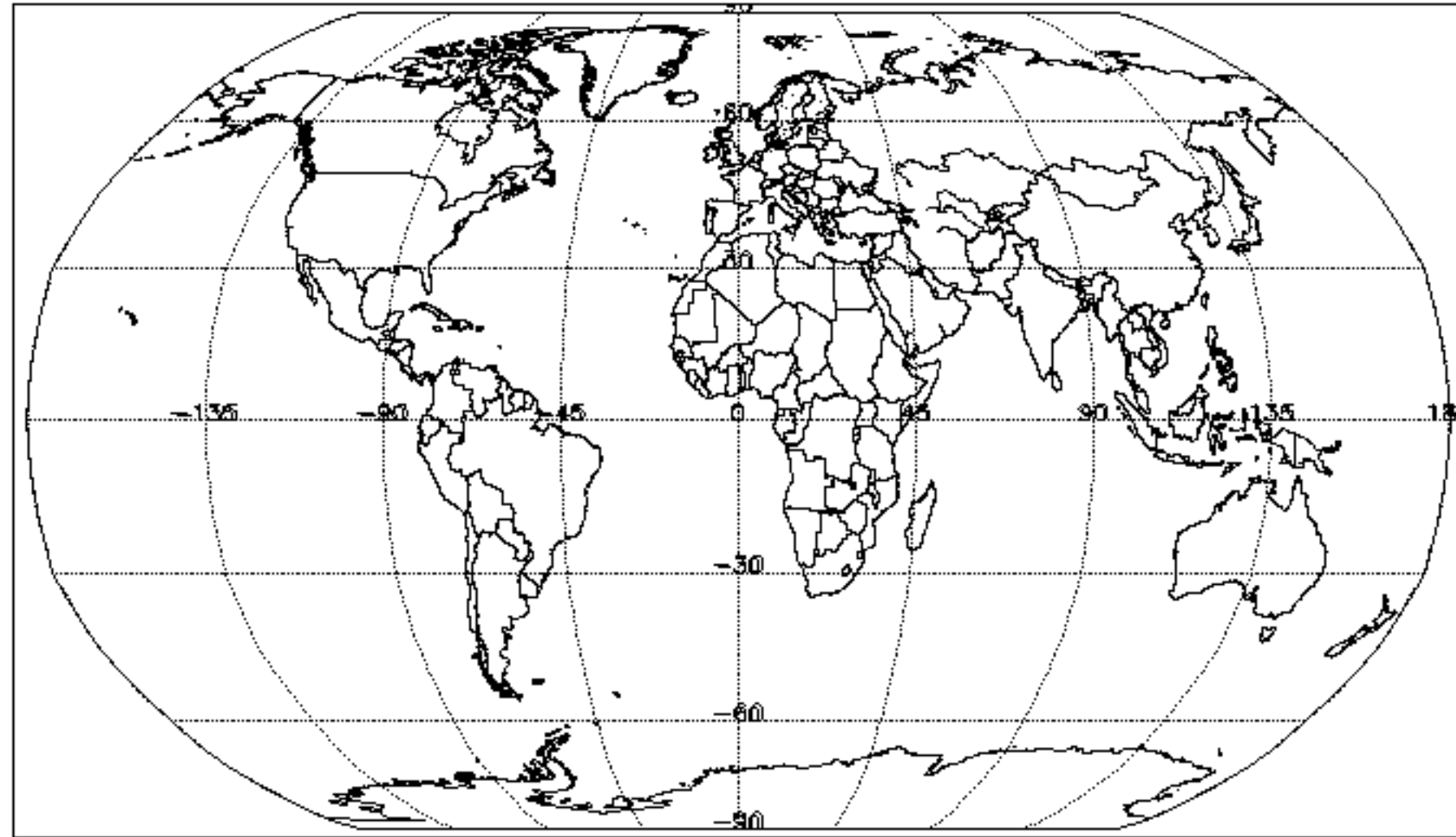
H₂O (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 04-APR-2012



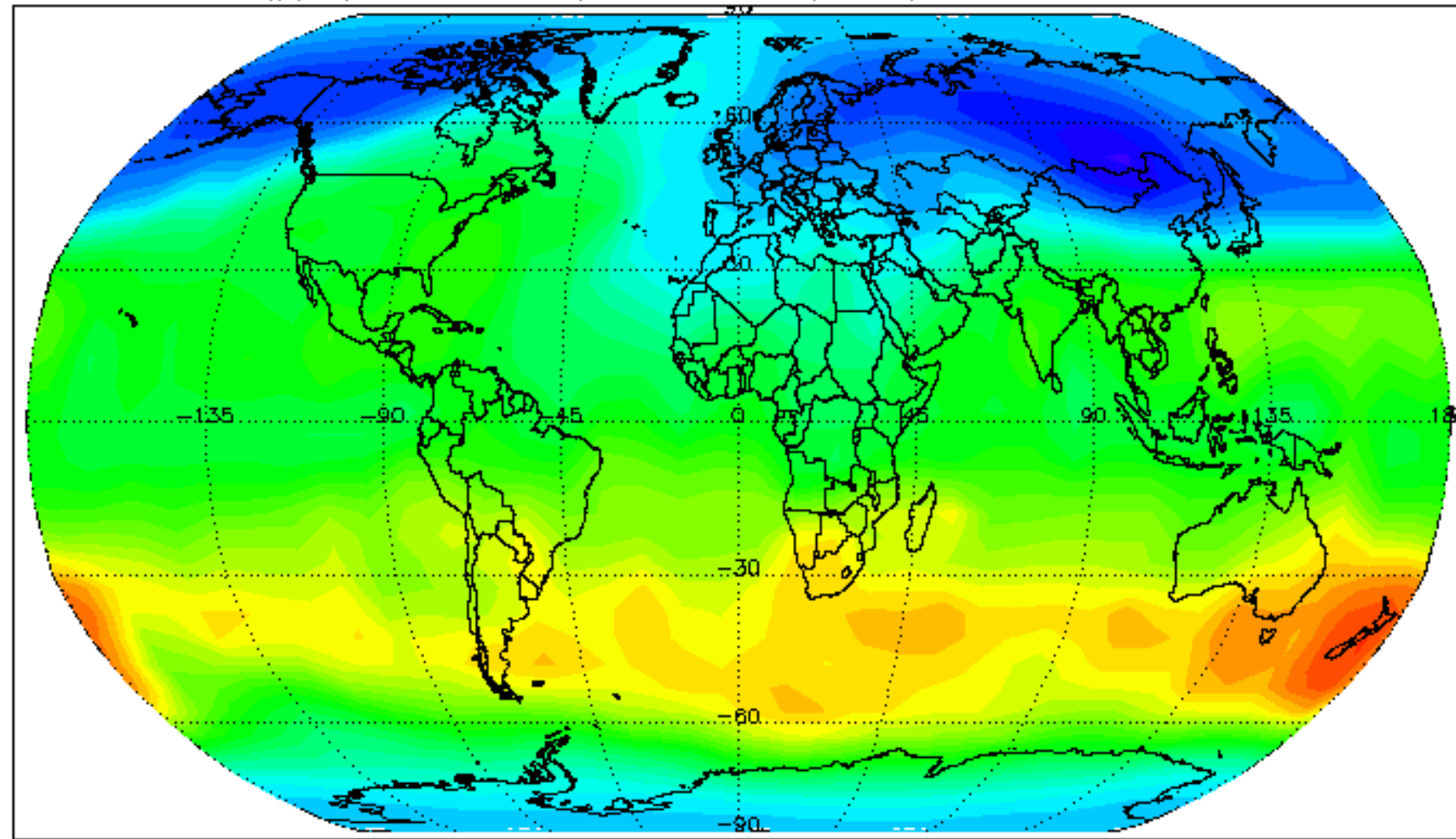
O₃ (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 04-APR-2012



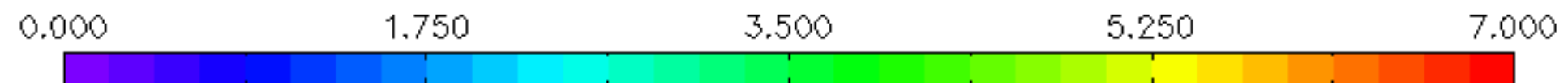
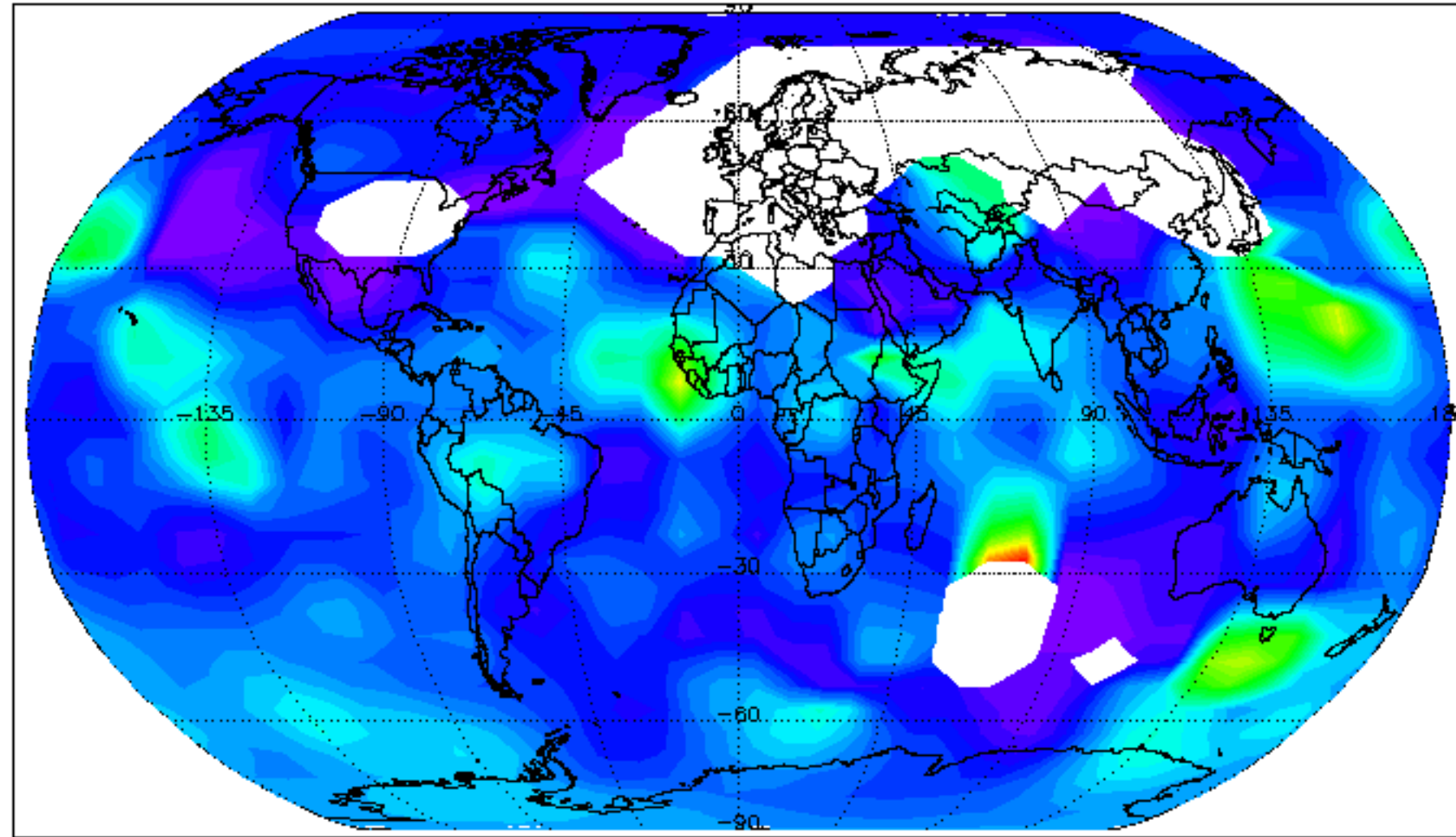
NO₃ (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 04-APR-2012



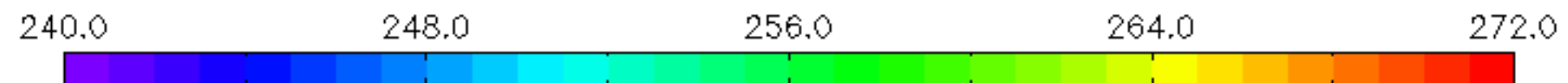
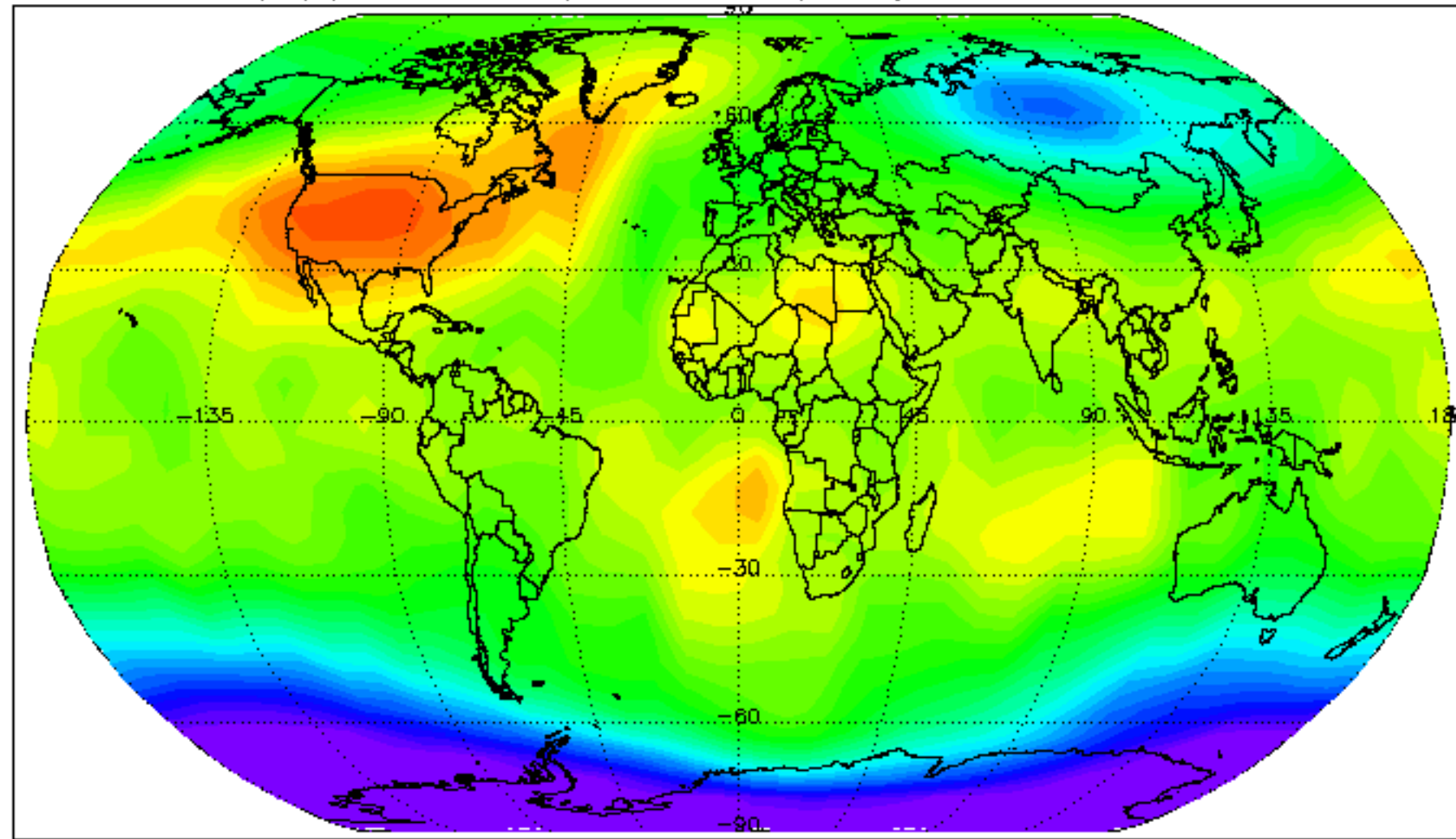
CH₄ (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 04-APR-2012



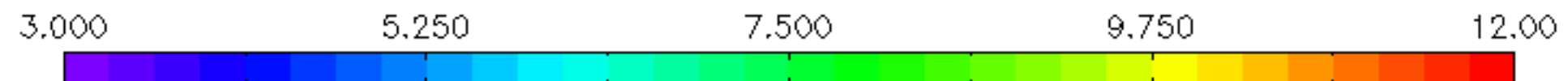
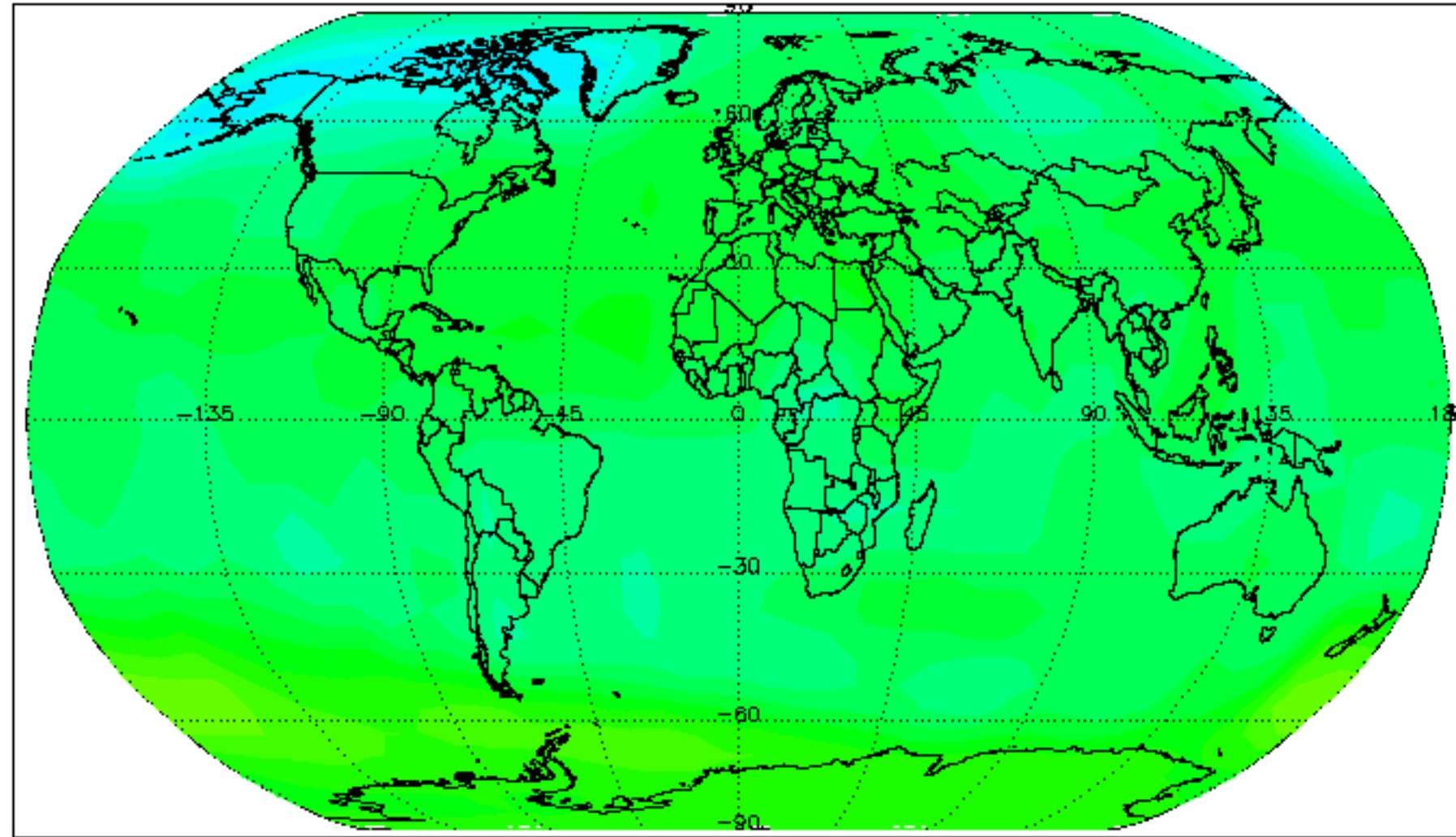
N₂O (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 04-APR-2012



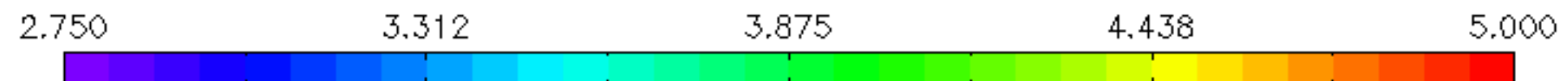
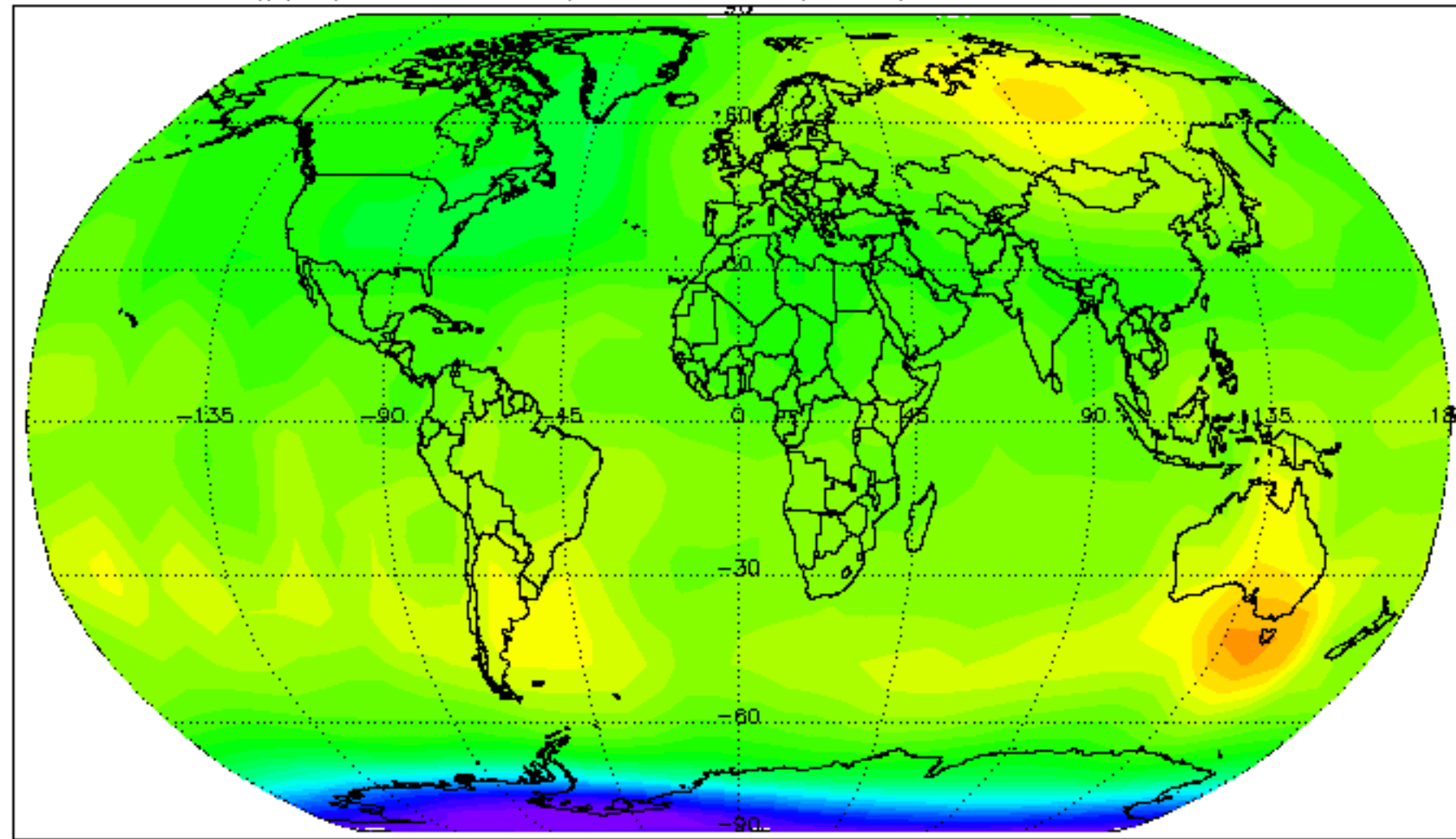
Temp (K) at: 1700 K (45km, 1.5hPa). Daily mean: 04-APR-2012



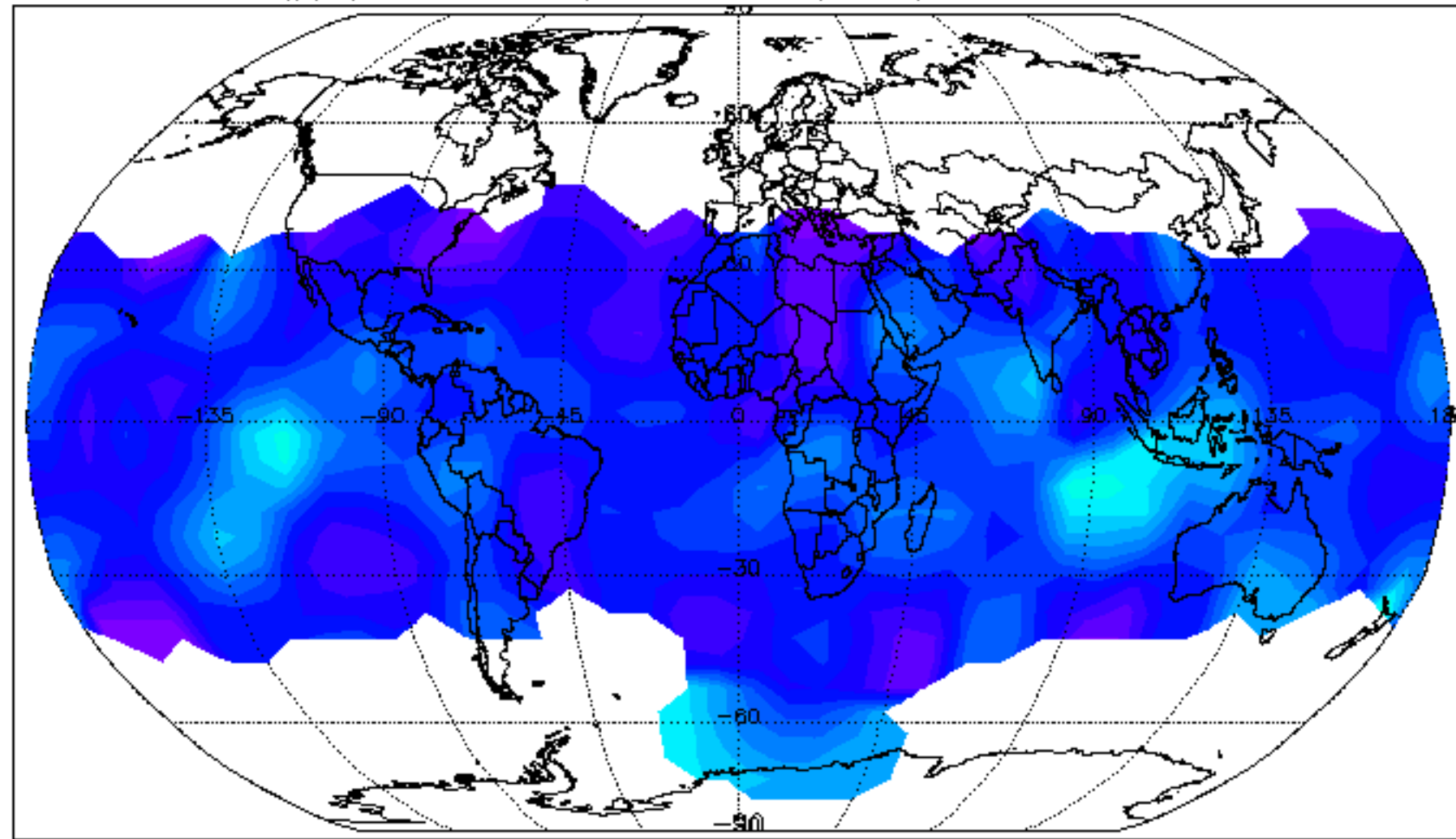
H₂O (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 04-APR-2012



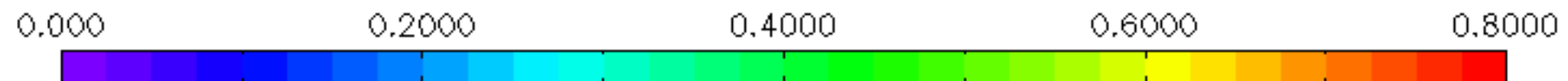
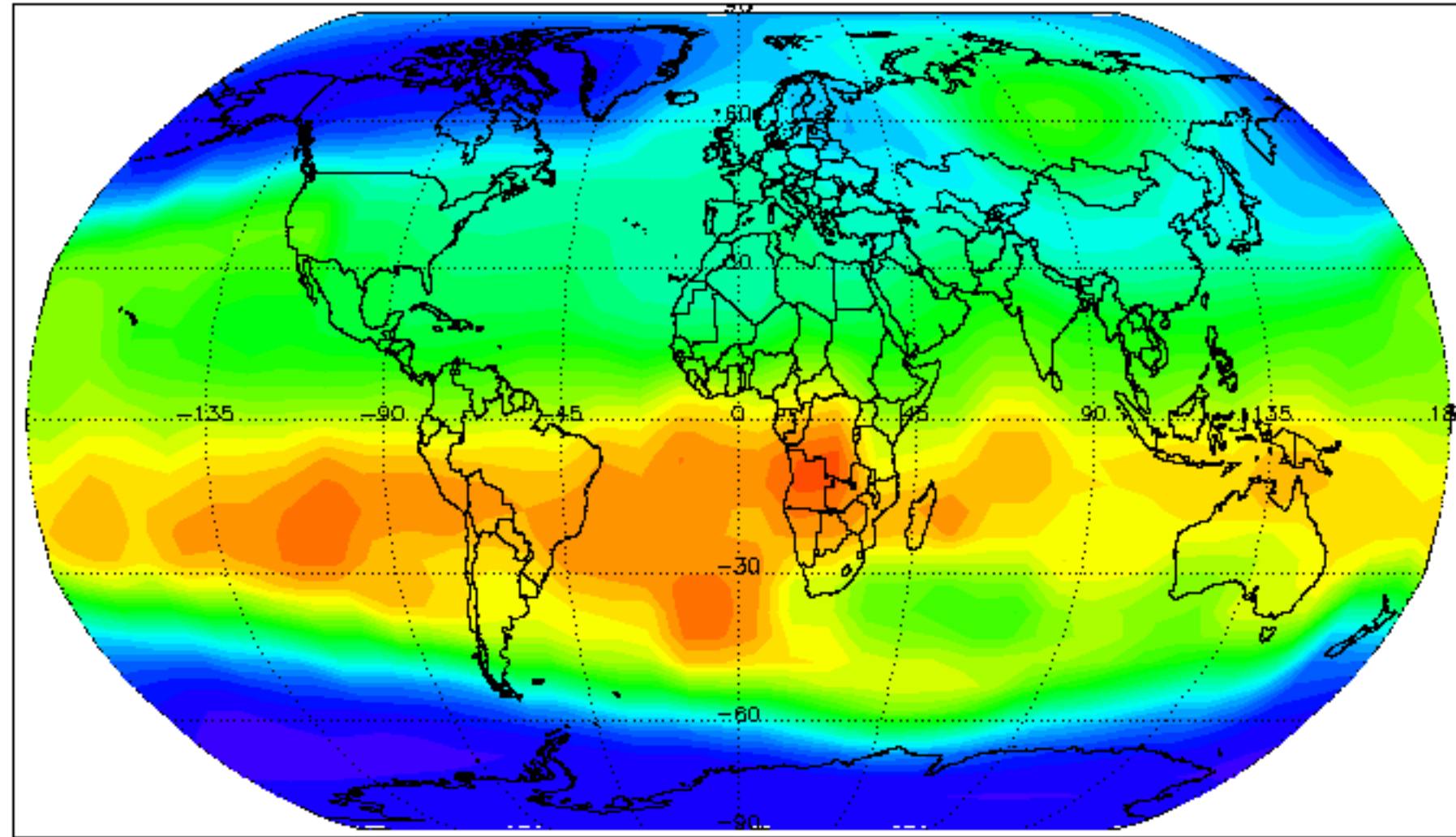
O₃ (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 04-APR-2012



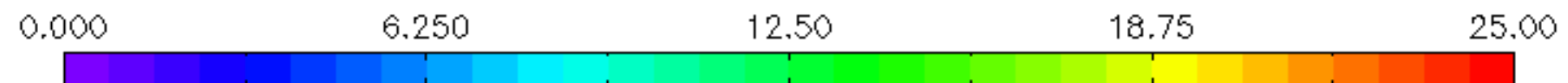
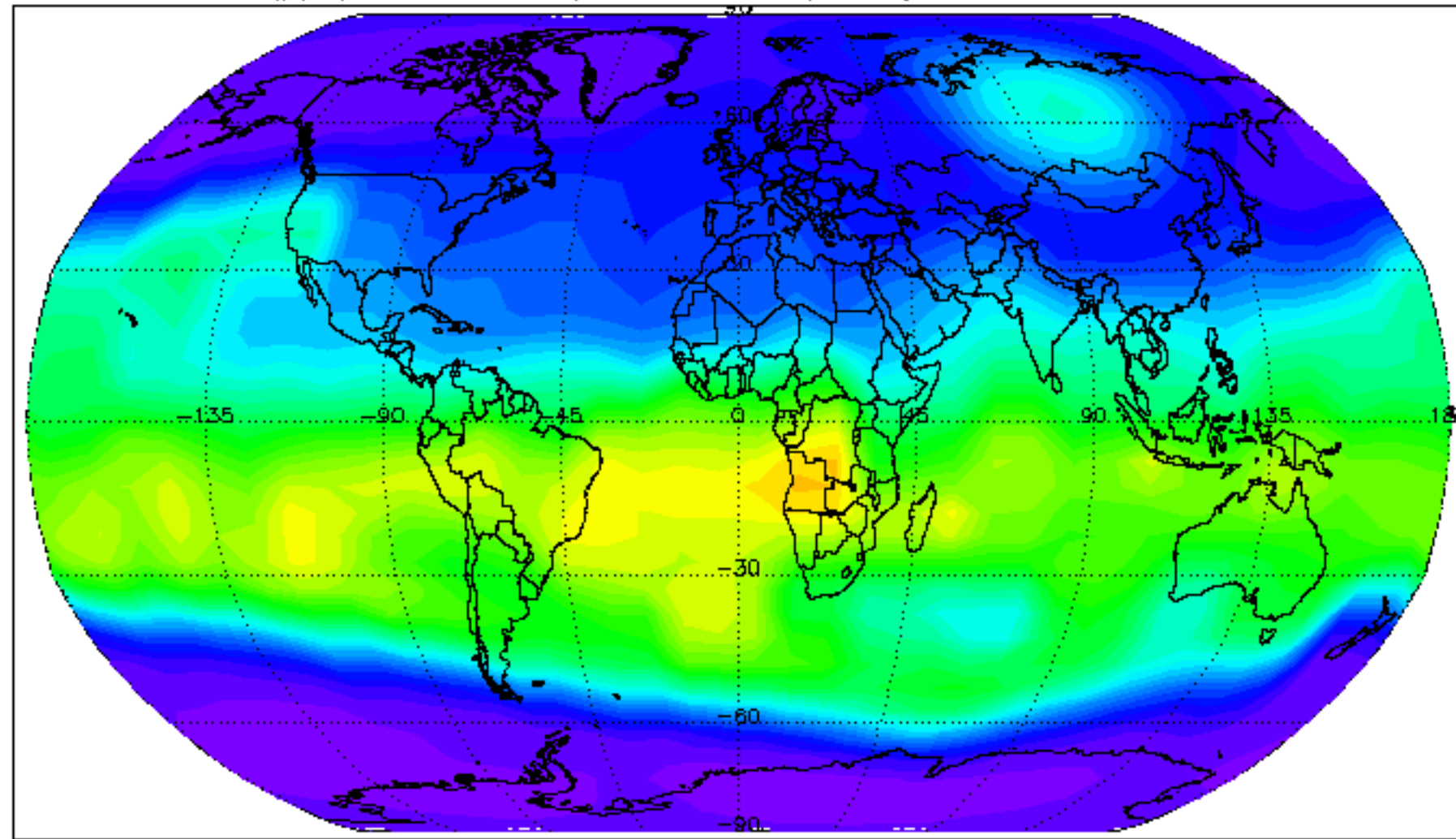
HN03 (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 04-APR-2012



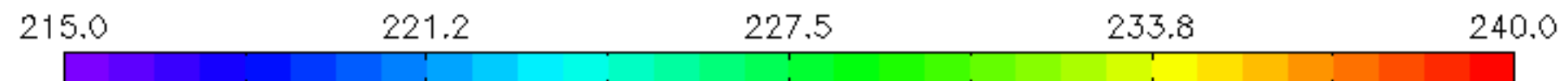
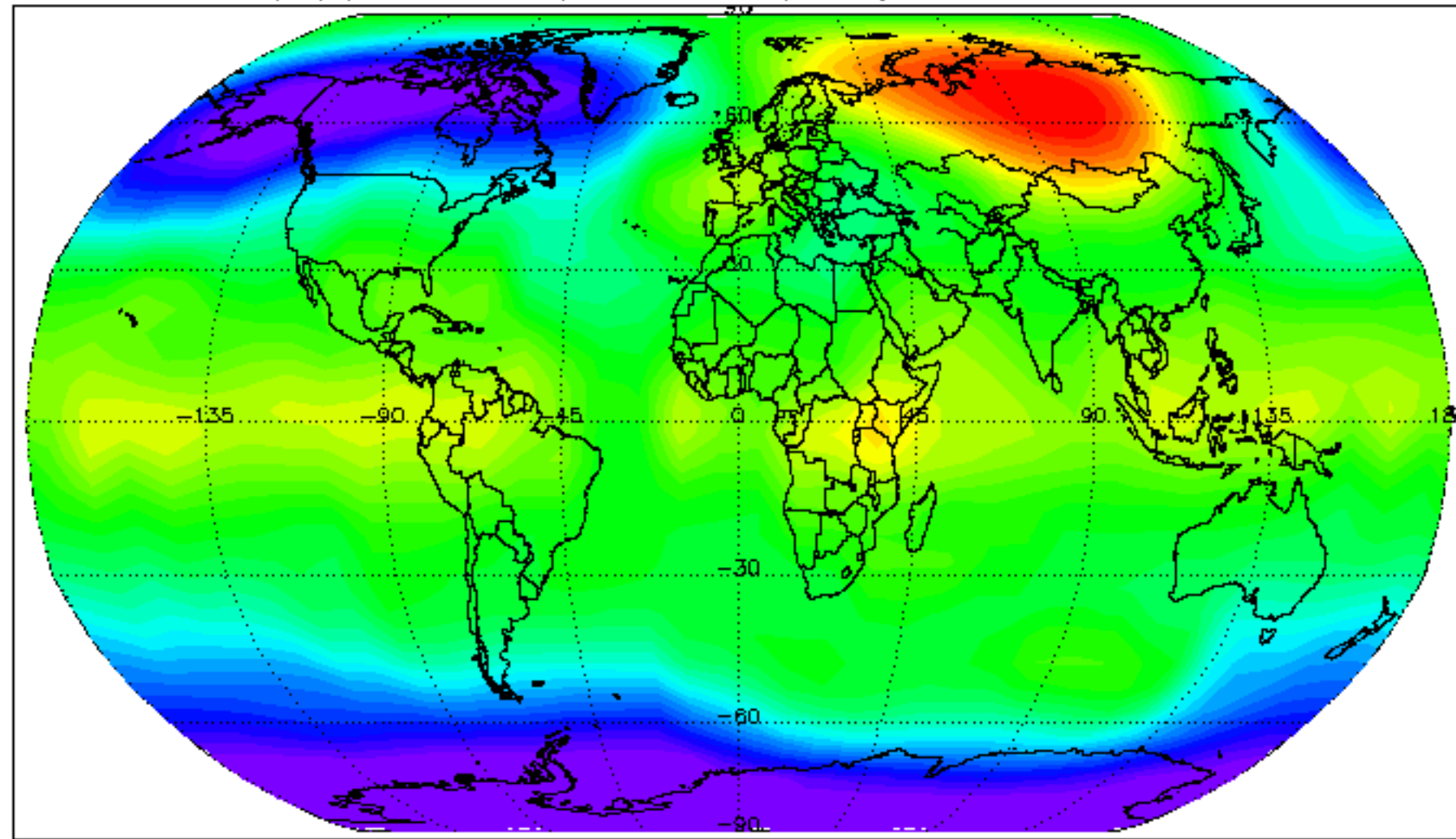
CH₄ (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 04-APR-2012



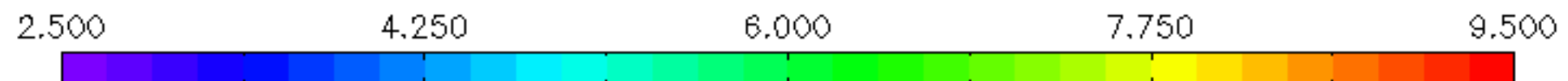
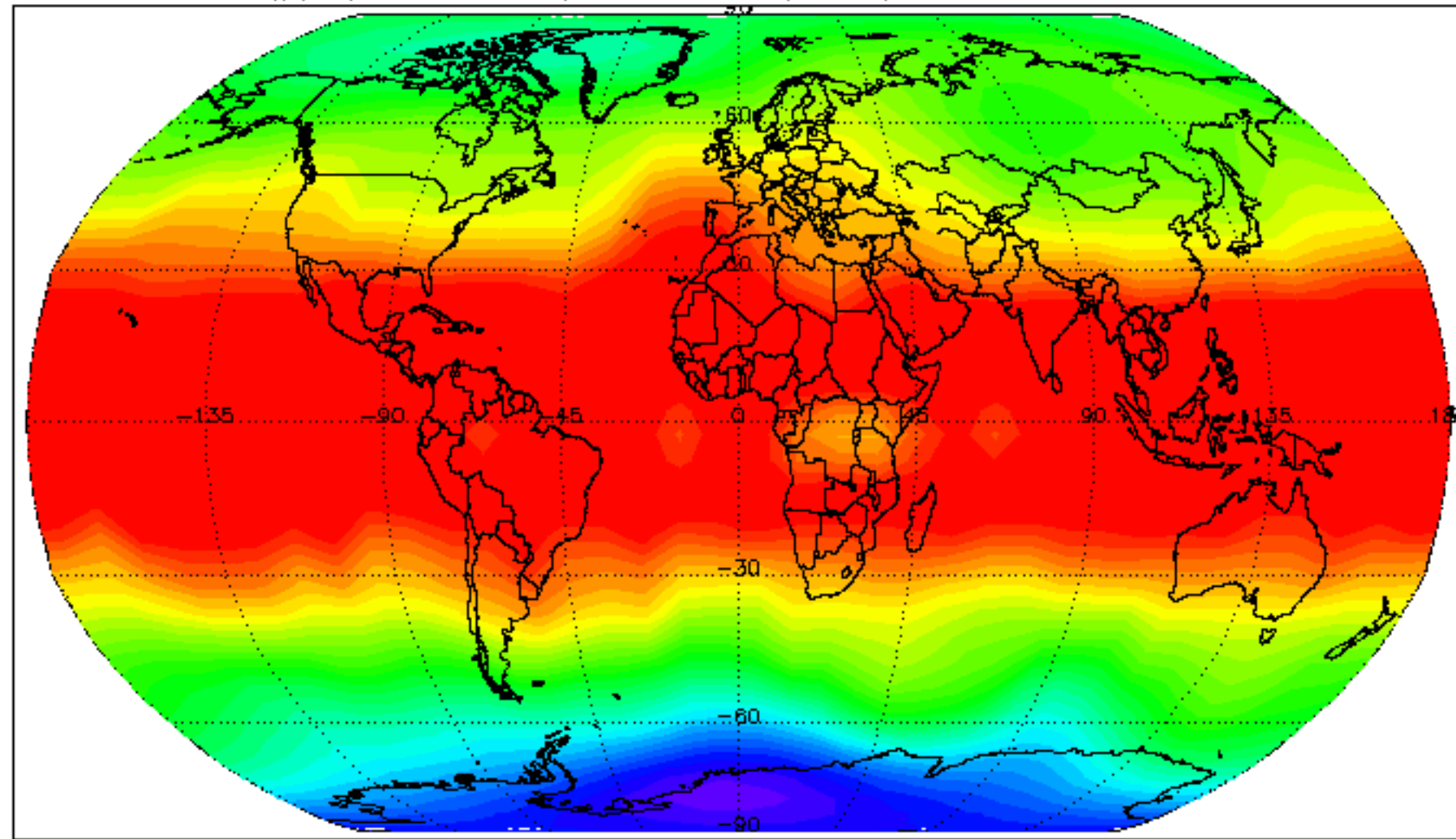
N₂O (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 04-APR-2012



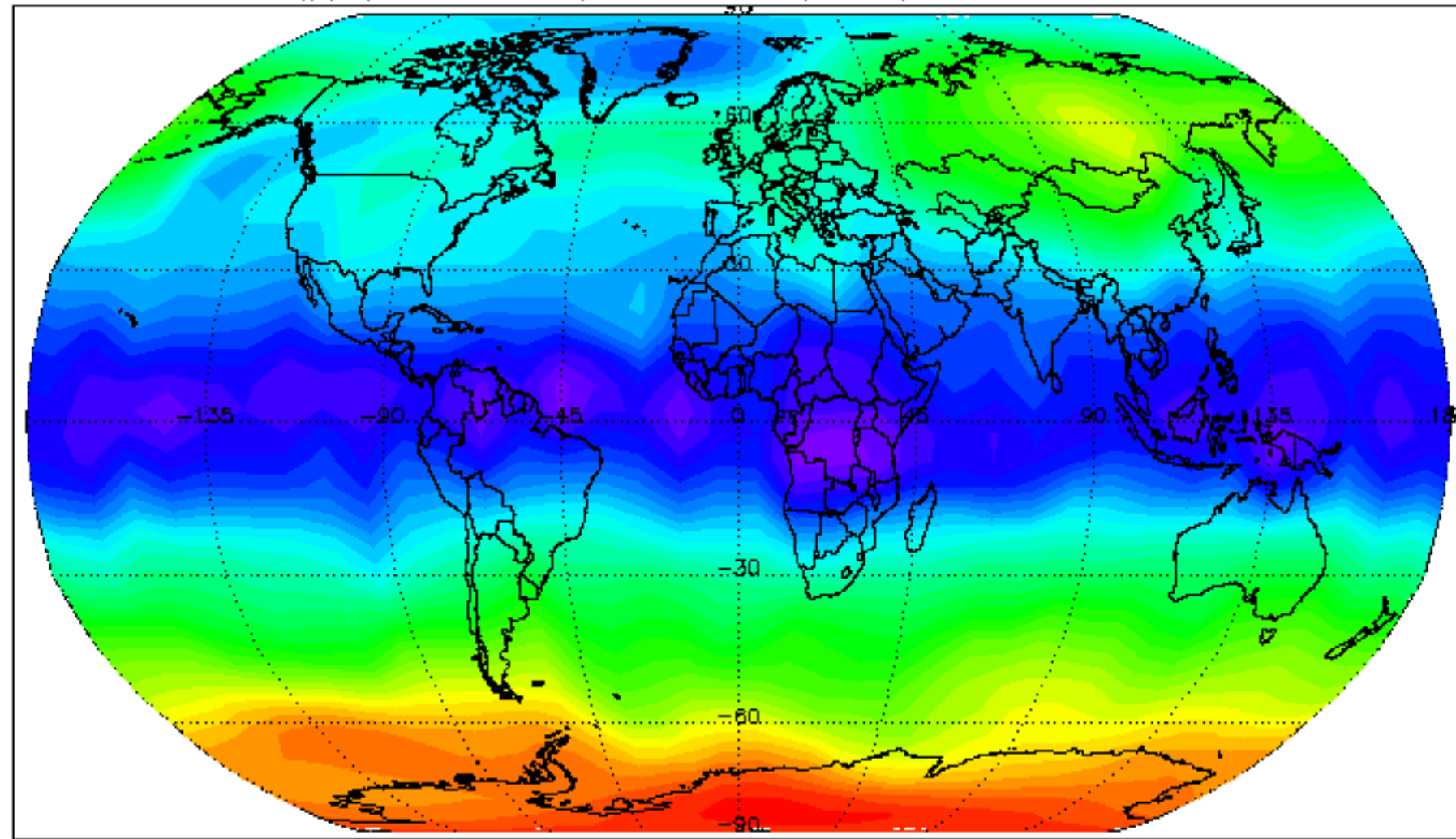
Temp (K) at: 850 K (32km, 10hPa). Daily mean: 04-APR-2012



O₃ (ppm) at: 850 K (32km, 10hPa). Daily mean: 04-APR-2012



HNO₃ (ppb) at: 850 K (32km, 10hPa). Daily mean: 04-APR-2012



HN03 (ppb) at 2700 K (60km, 0.2hPa). 04-APR-2012

