

MIPAS maps of mean distribution: 24-JAN-2012

Measurement Mode: Upper Atmosphere (42 - 172 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-physical products are interpolated at different Teta levels.

The data is then interpolated to a fixed Lat/Lon grid using a weighted distance average.

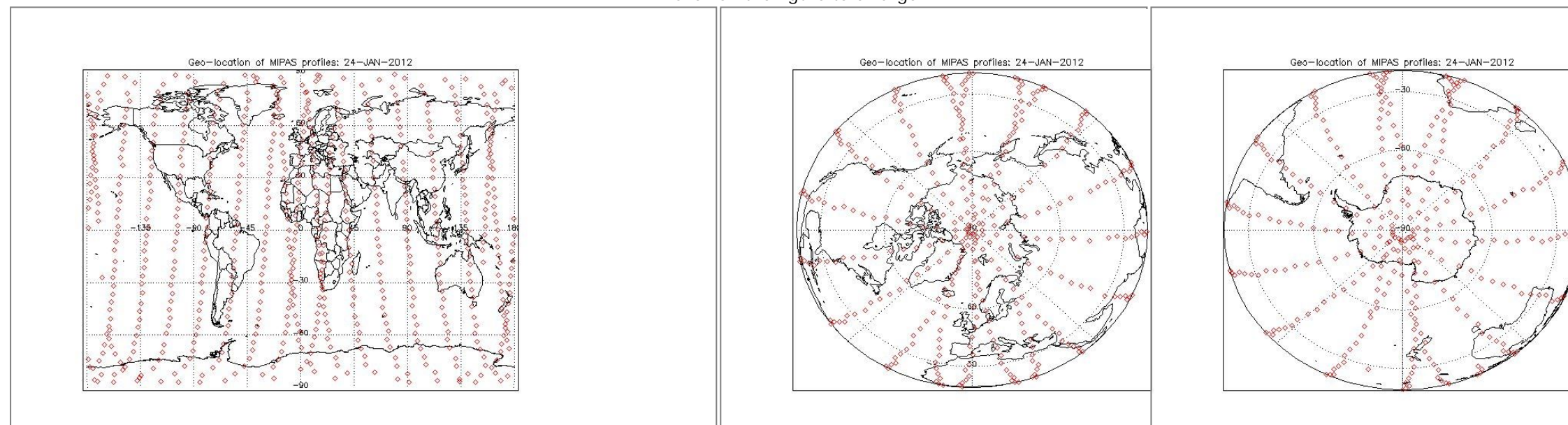
Note that Upper and Middle Atmosphere measurements are only retrieved up to 70km.

Total Number of profiles: 674

Retrieved Parameter	Profiles not reaching convergence (%)	Profiles exceeding chi2 threshold (%)
p-T	0.30	1.63
H2O	0.45	0.45
O3	0.30	0.15
HNO3	100.00	0.15
CH4	0.30	0.15
N2O	0.45	0.15
NO2	0.74	30.71

Geo-location of MIPAS profiles

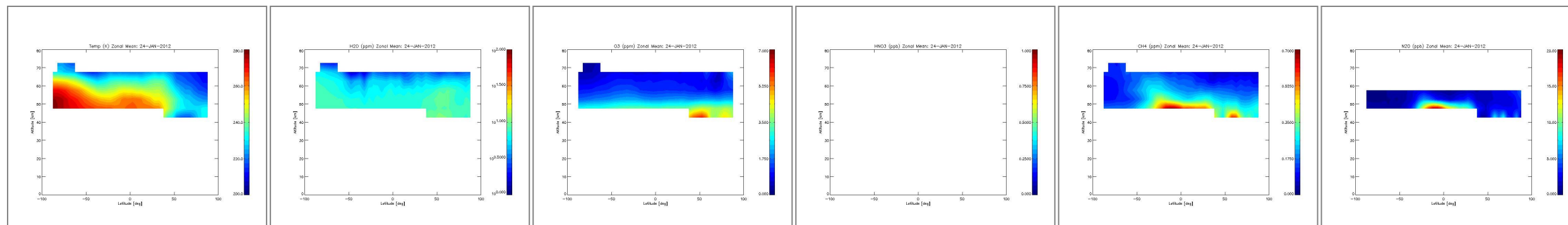
Click on the figure to enlarge



Zonal Mean Maps

Click on the figure to enlarge

Temp (K)	H2O (ppm)	O3 (ppm)	HNO3 (ppb)	CH4 (ppm)	N2O (ppb)
----------	-----------	----------	------------	-----------	-----------



Daily mean interpolated at different isentropic levels

Click on the figure to enlarge

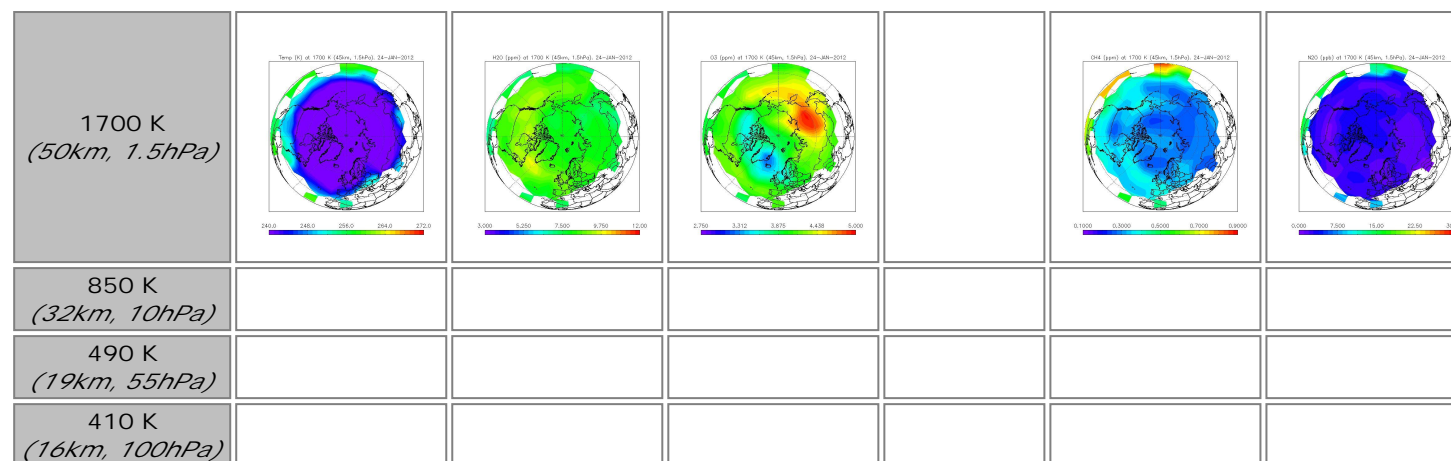
	Temp (K)	H2O (ppm)	O3 (ppm)	HNO3 (ppb)	CH4 (ppm)	N2O (ppb)
2700 K (60km, 0.2hPa)						
1700 K (50km, 1.5hPa)						
850 K (32km, 10hPa)						
490 K (19km, 55hPa)						
410 K (16km, 100hPa)						

[Home](#)

Arctic distribution interpolated at different isentropic levels

Click on the figure to enlarge

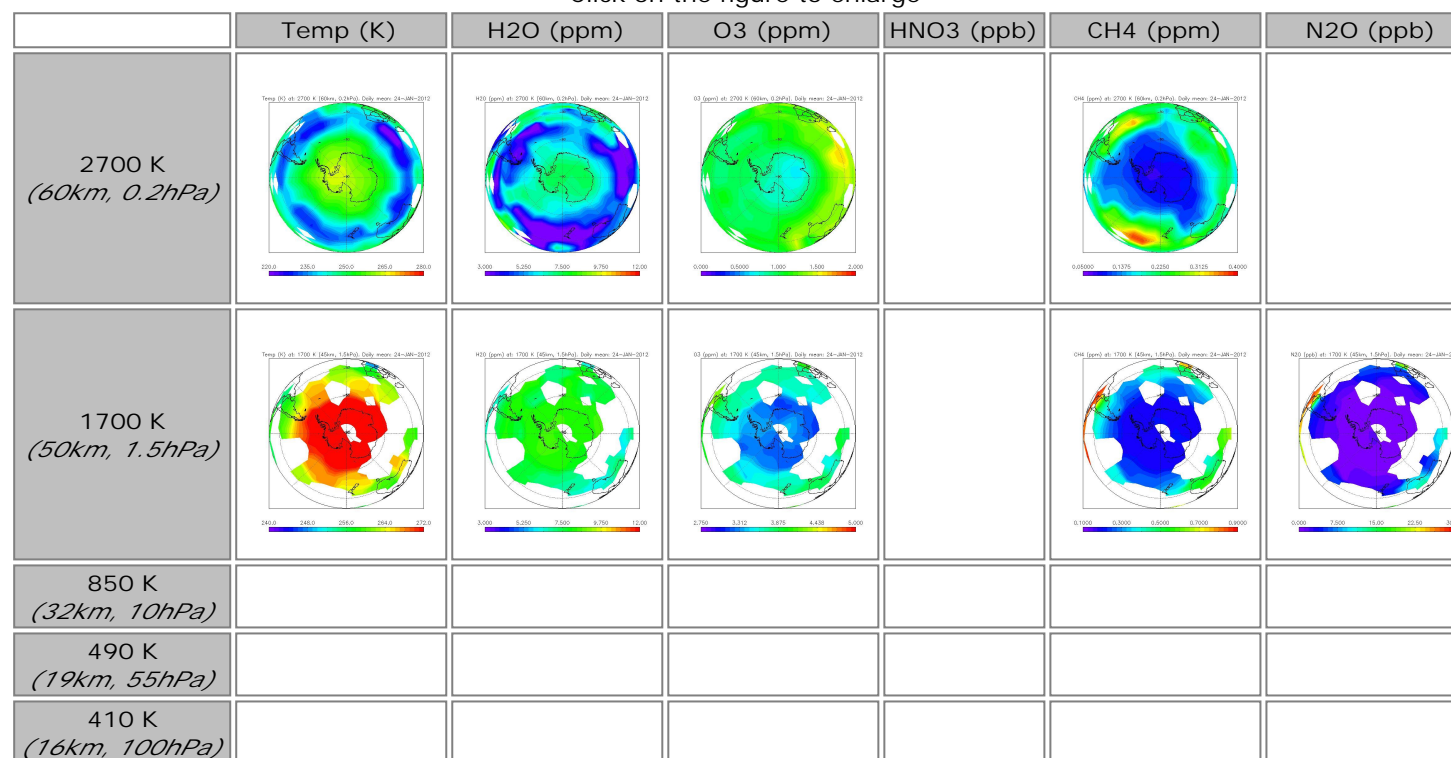
	Temp (K)	H2O (ppm)	O3 (ppm)	HNO3 (ppb)	CH4 (ppm)	N2O (ppb)
2700 K (60km, 0.2hPa)						



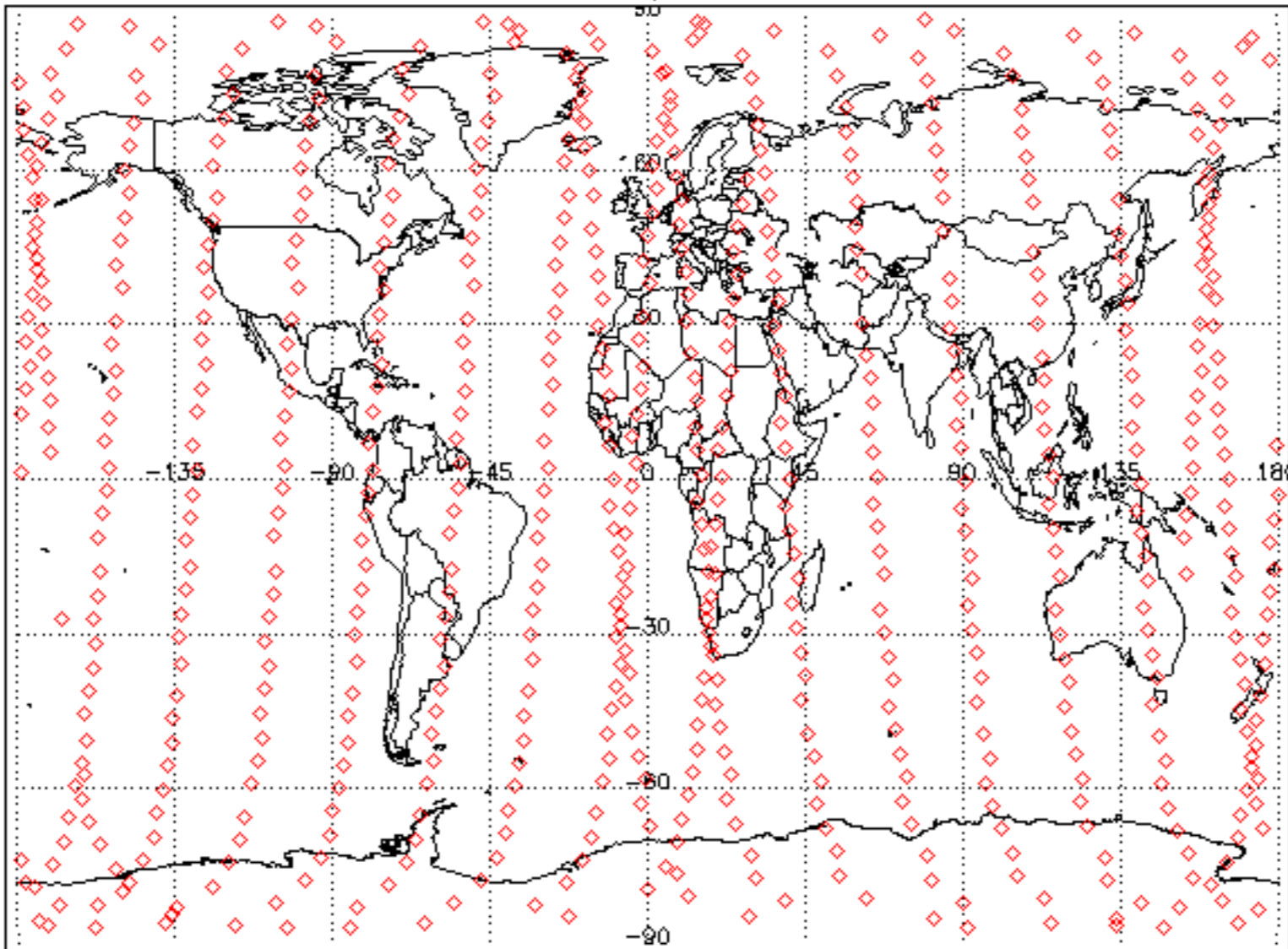
[Home](#)

Antarctic distribution interpolated at different isentropic levels

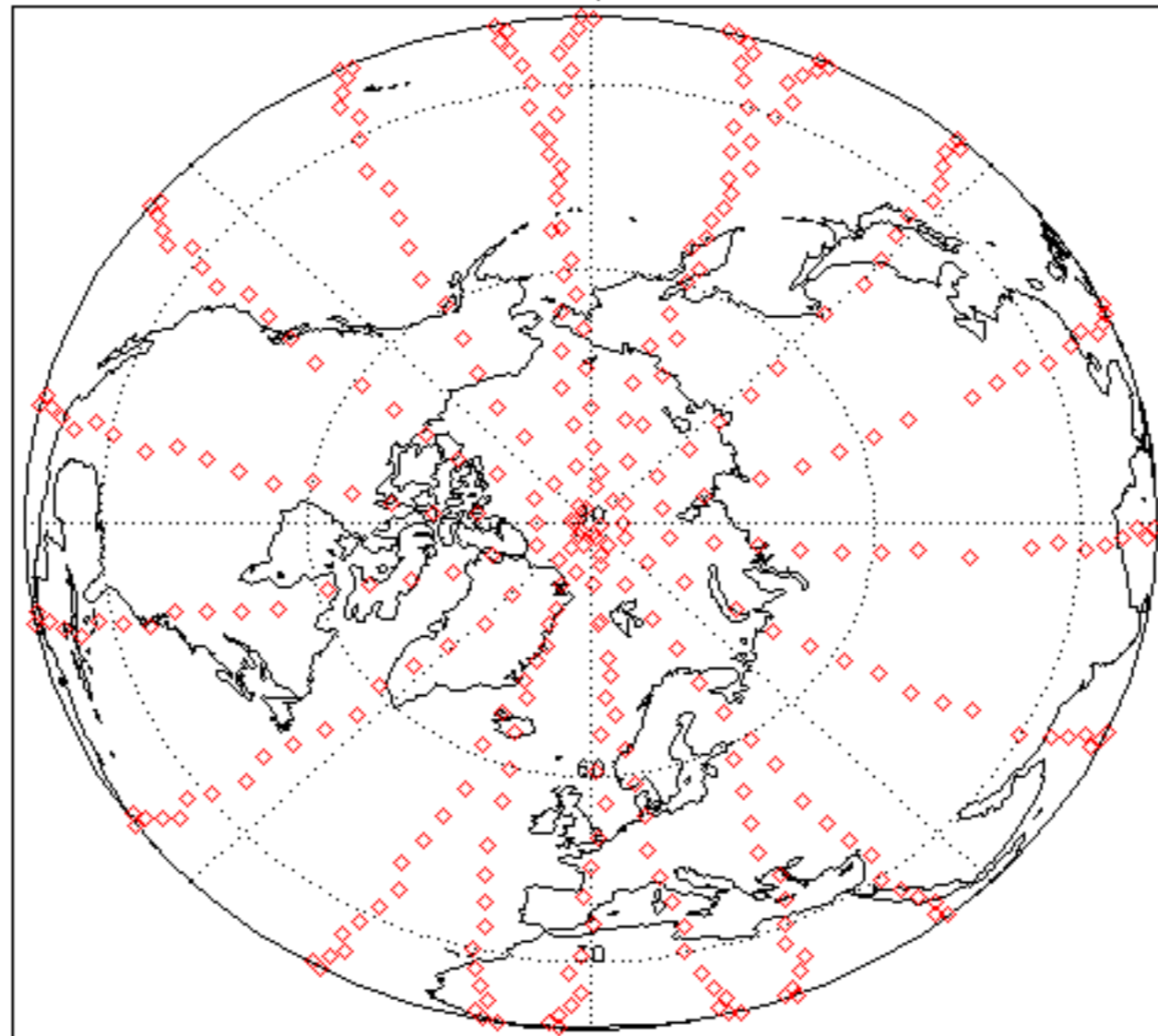
Click on the figure to enlarge



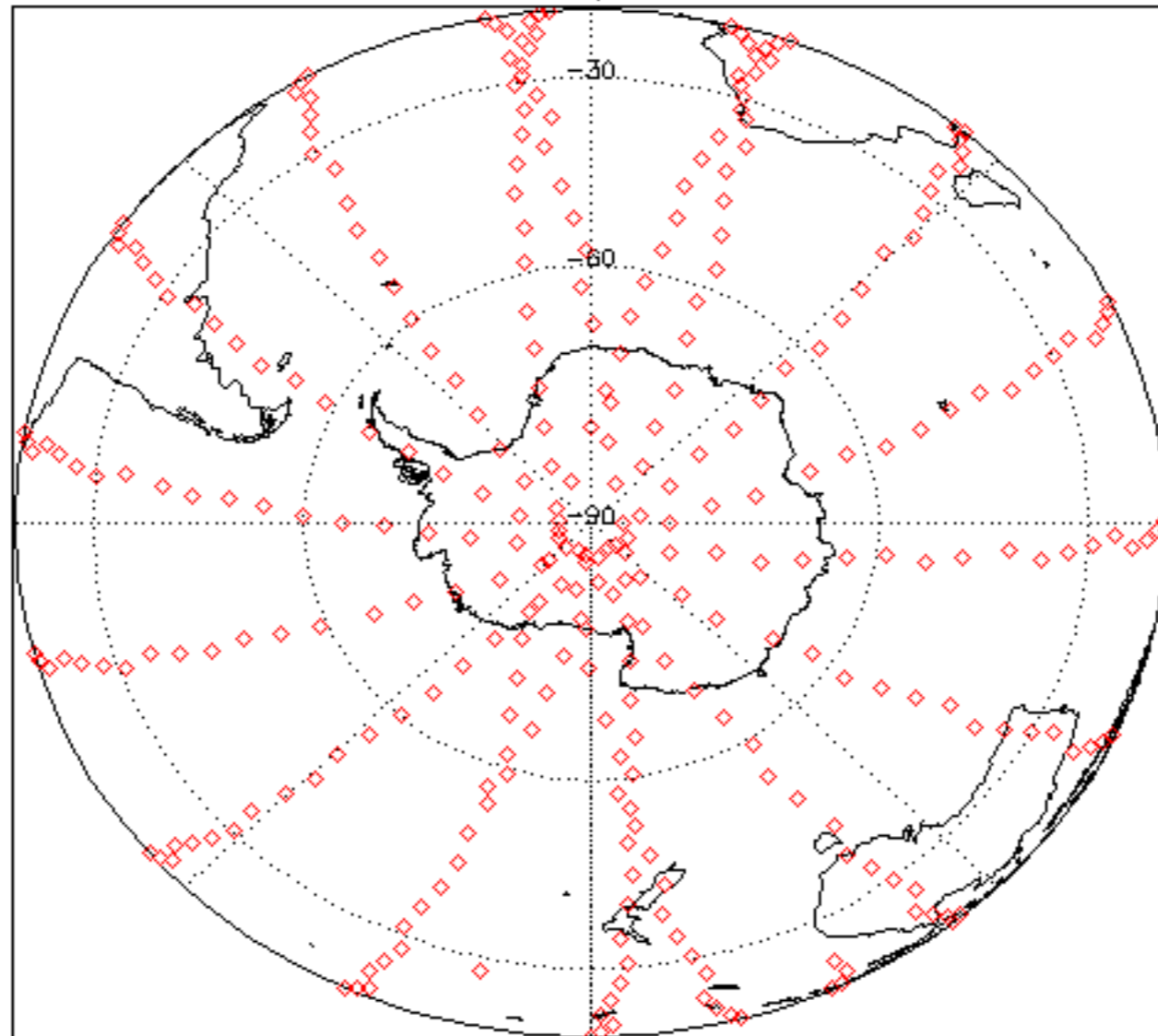
Geo-location of MIPAS profiles: 24-JAN-2012

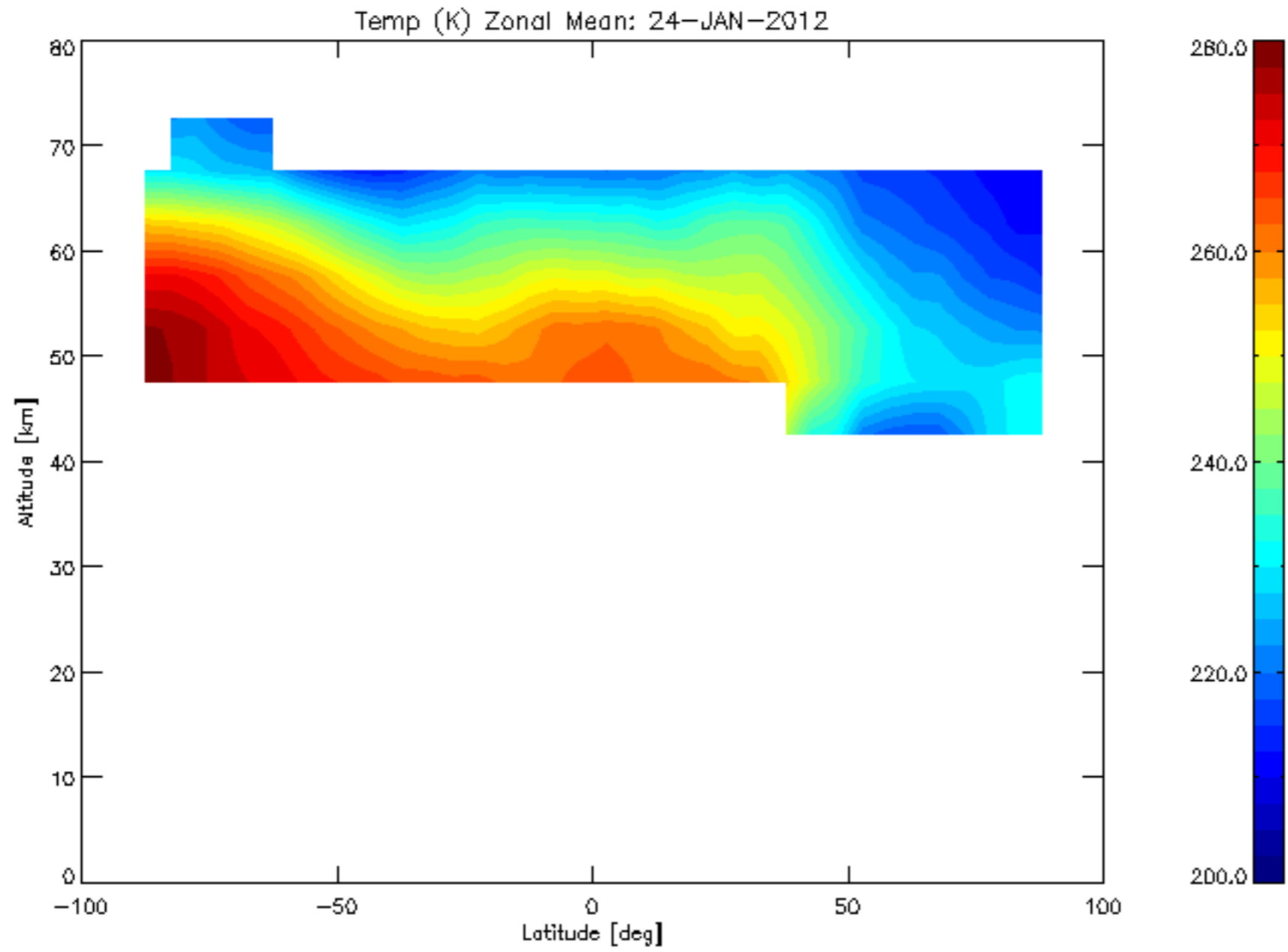


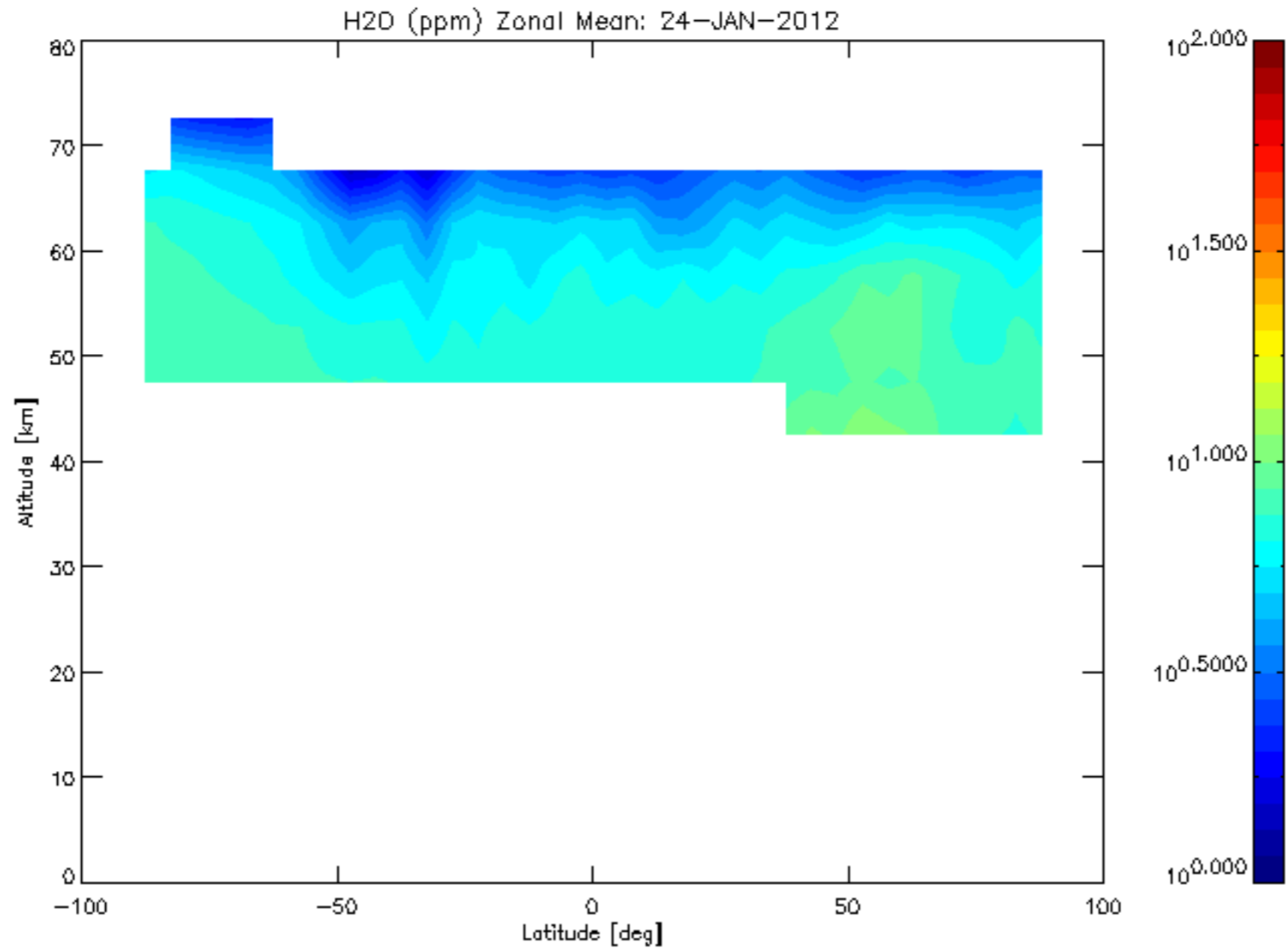
Geo-location of MIPAS profiles: 24-JAN-2012

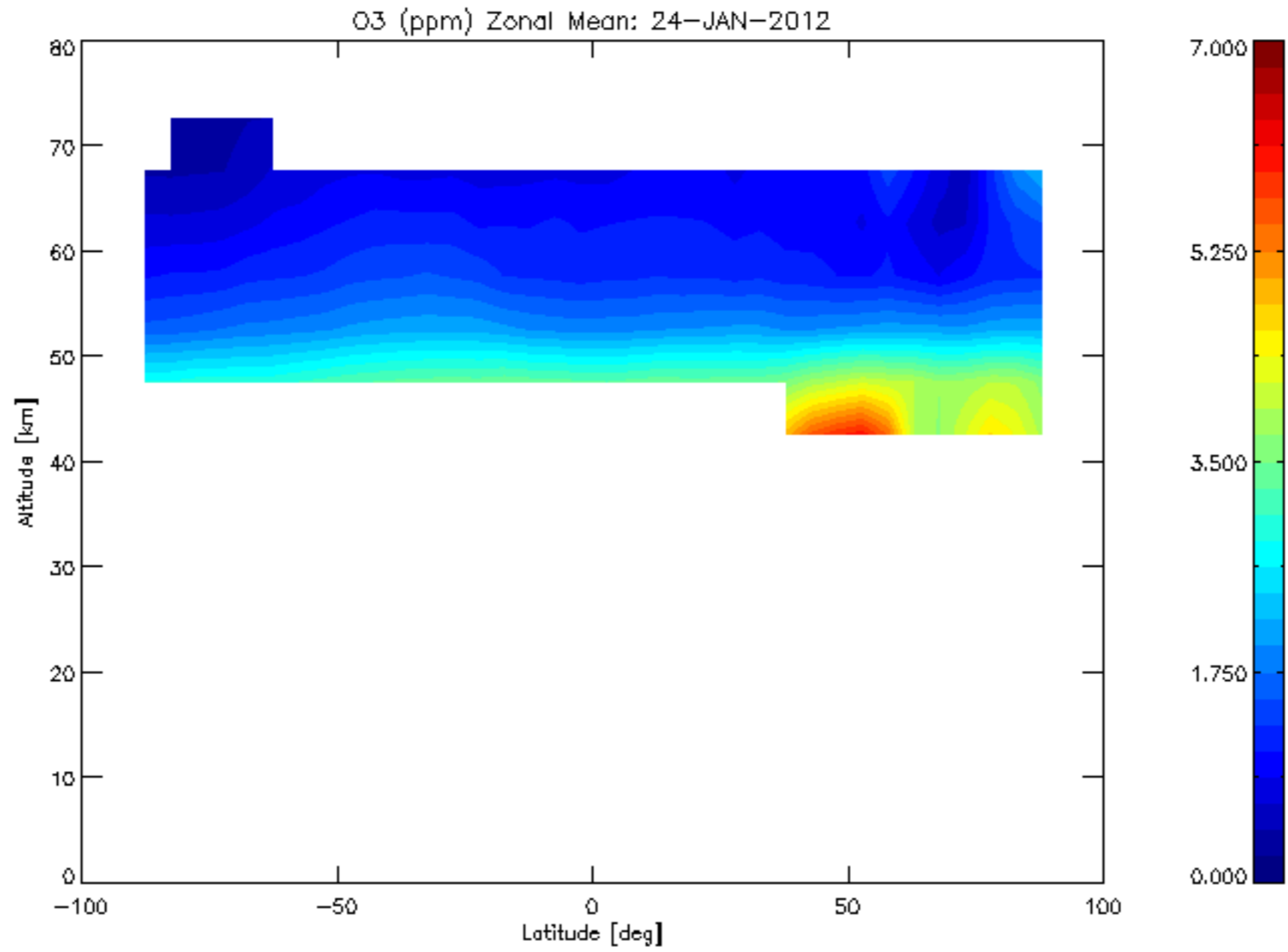


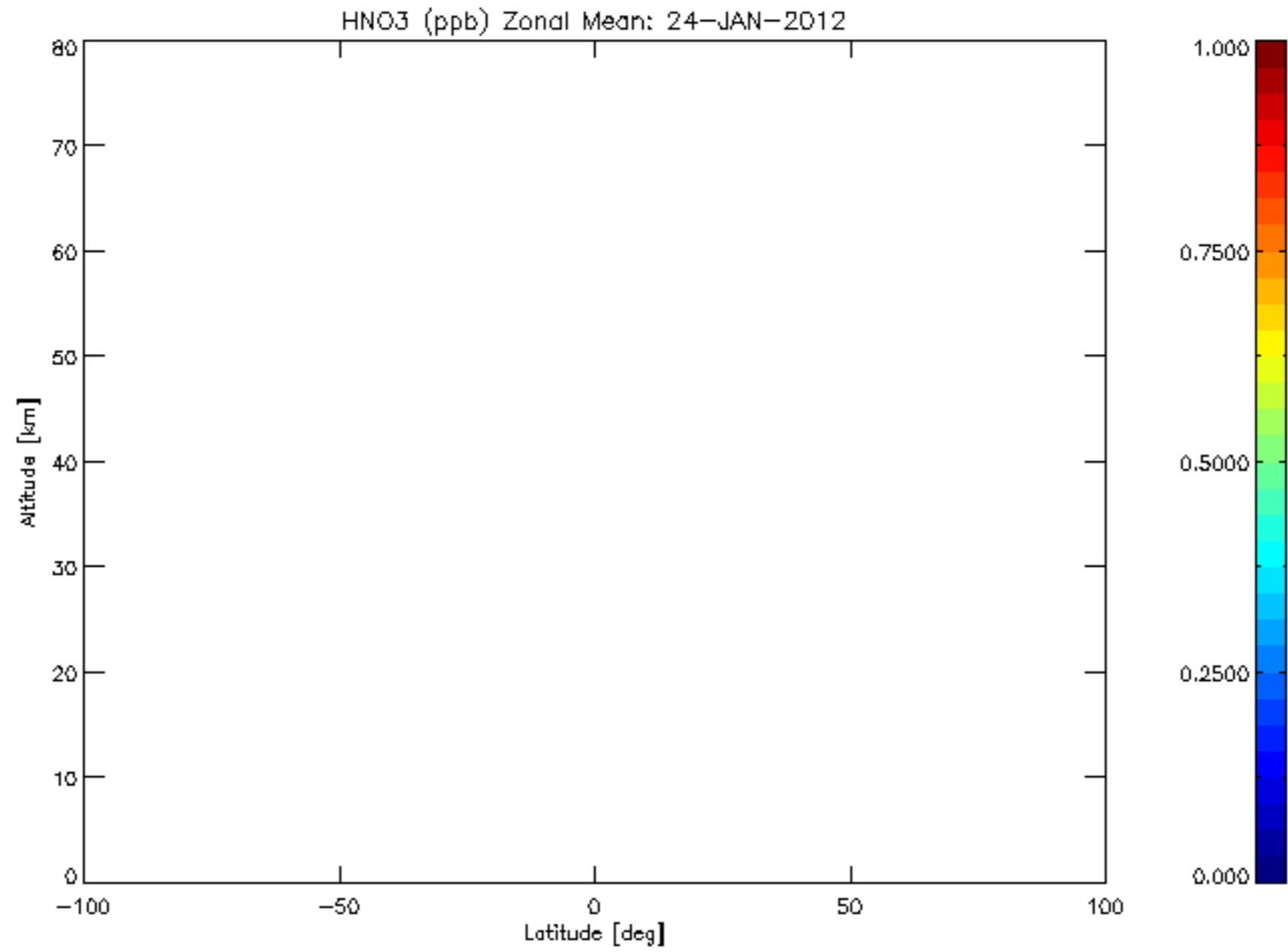
Geo-location of MIPAS profiles: 24-JAN-2012

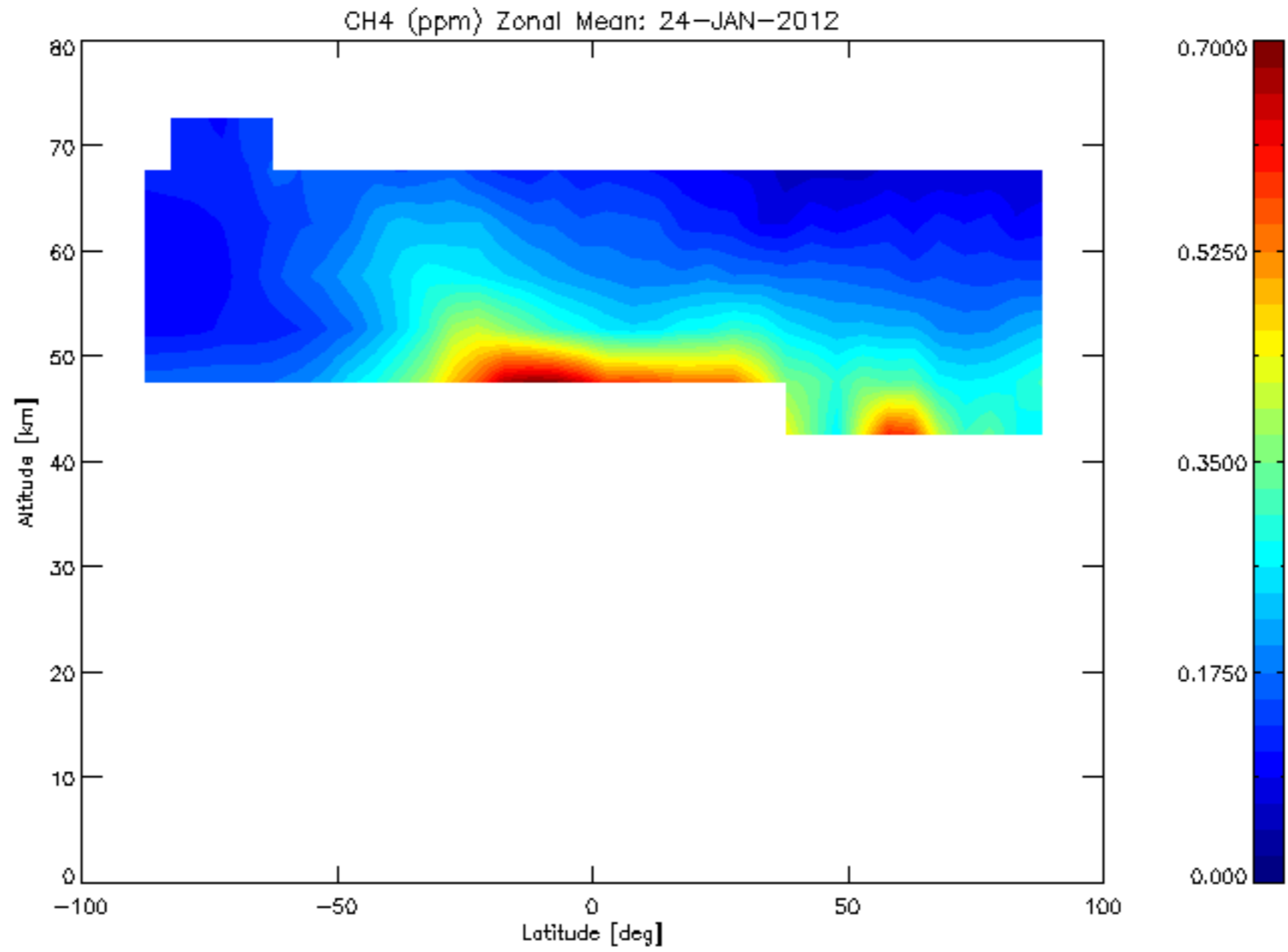


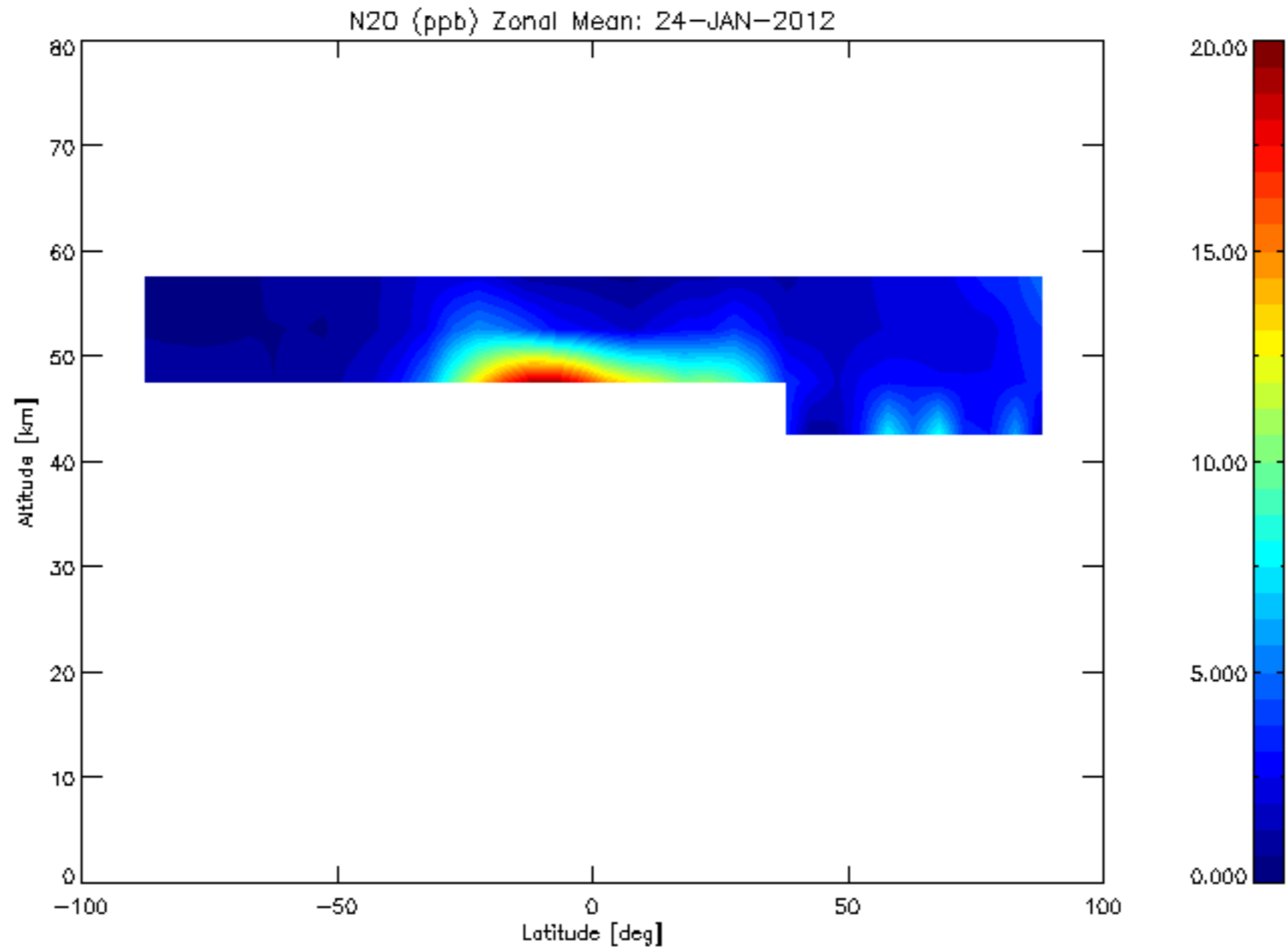




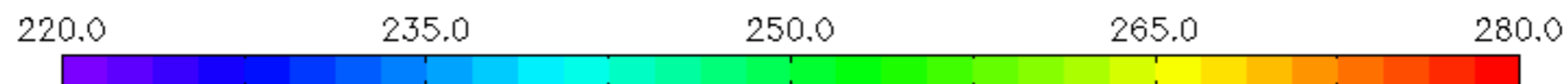
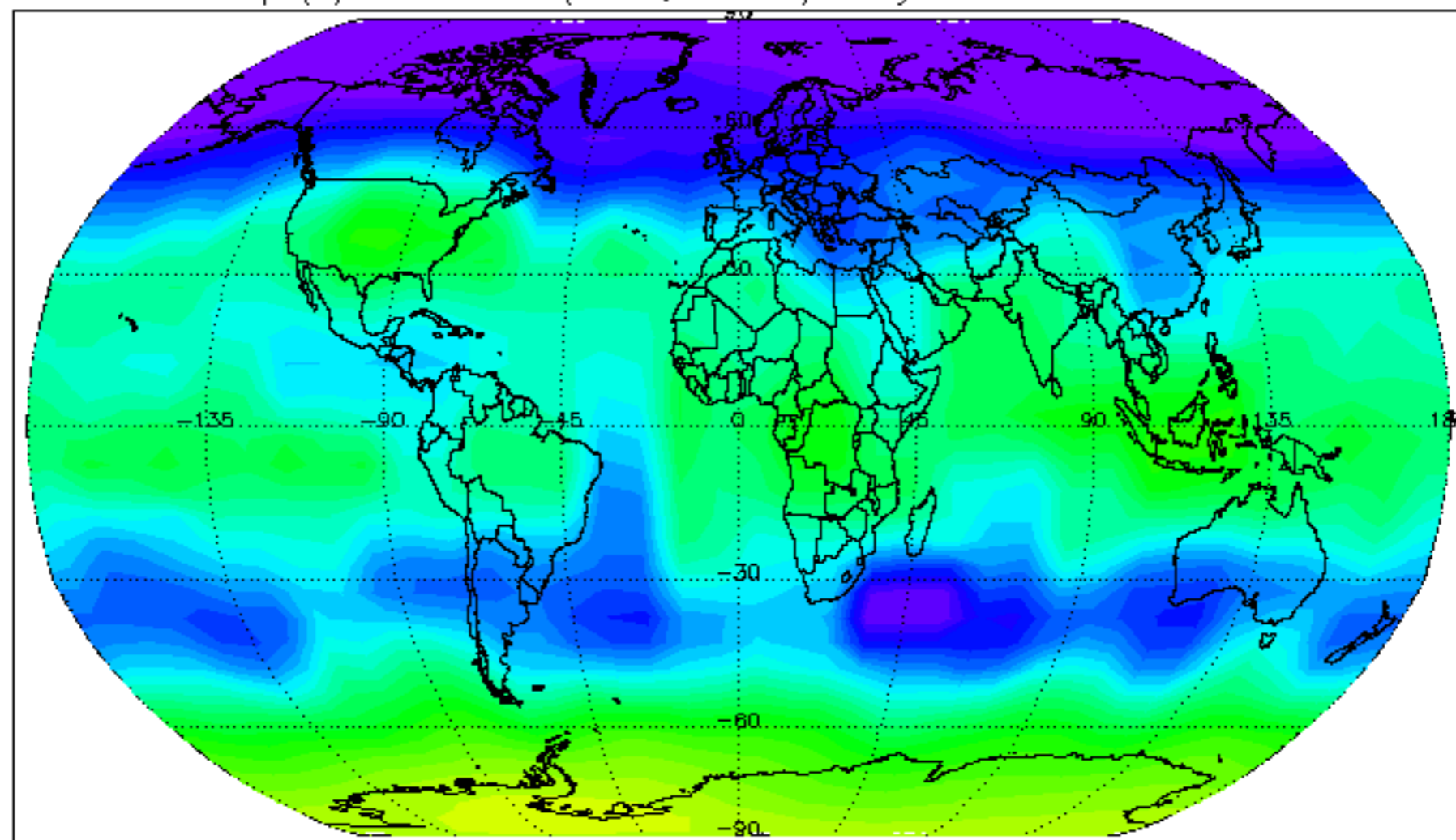




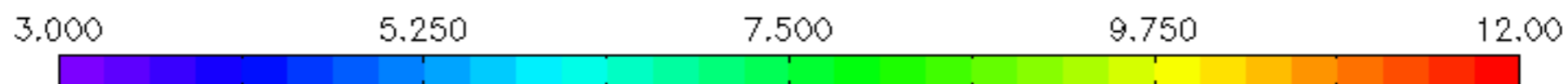
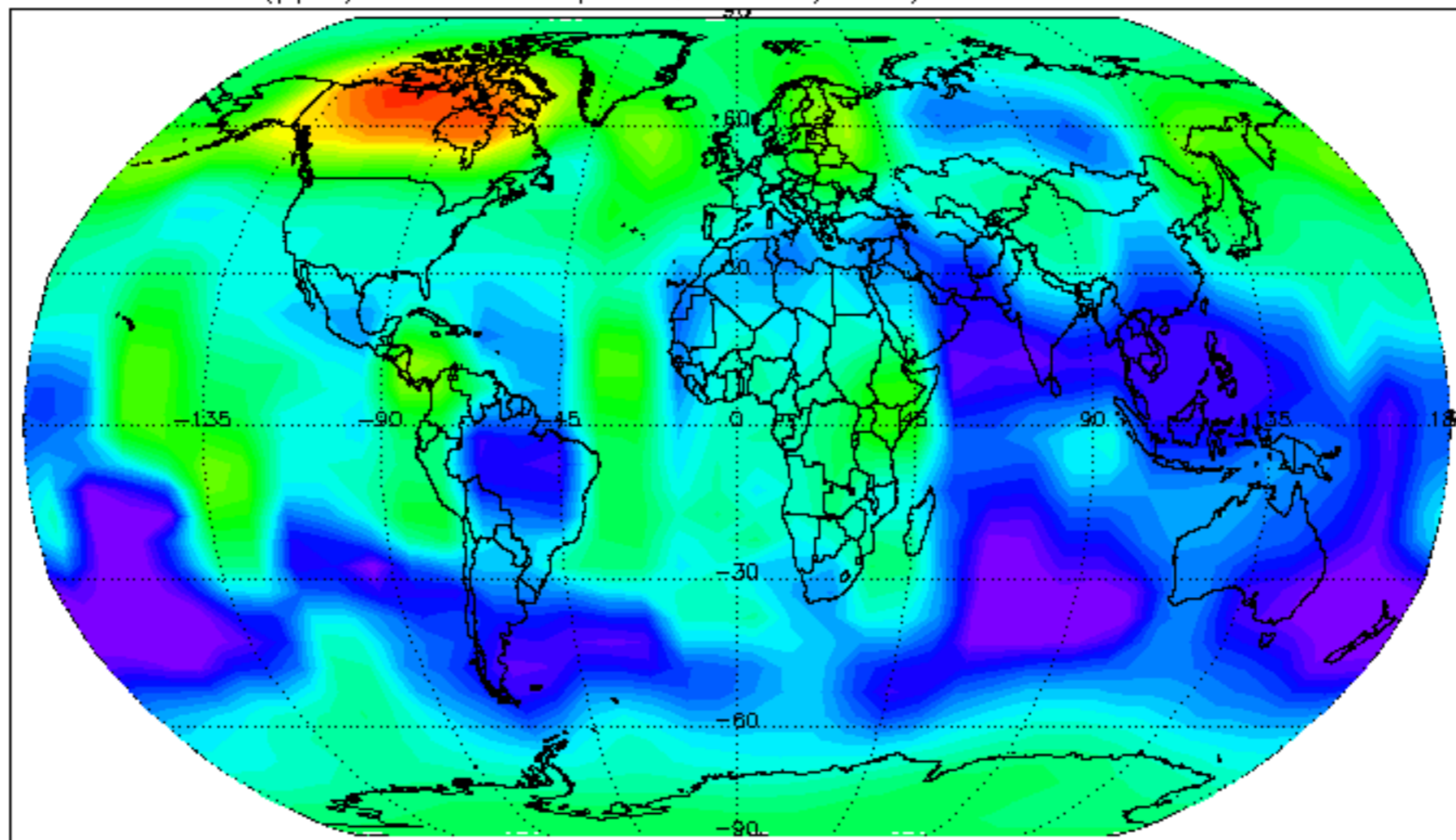




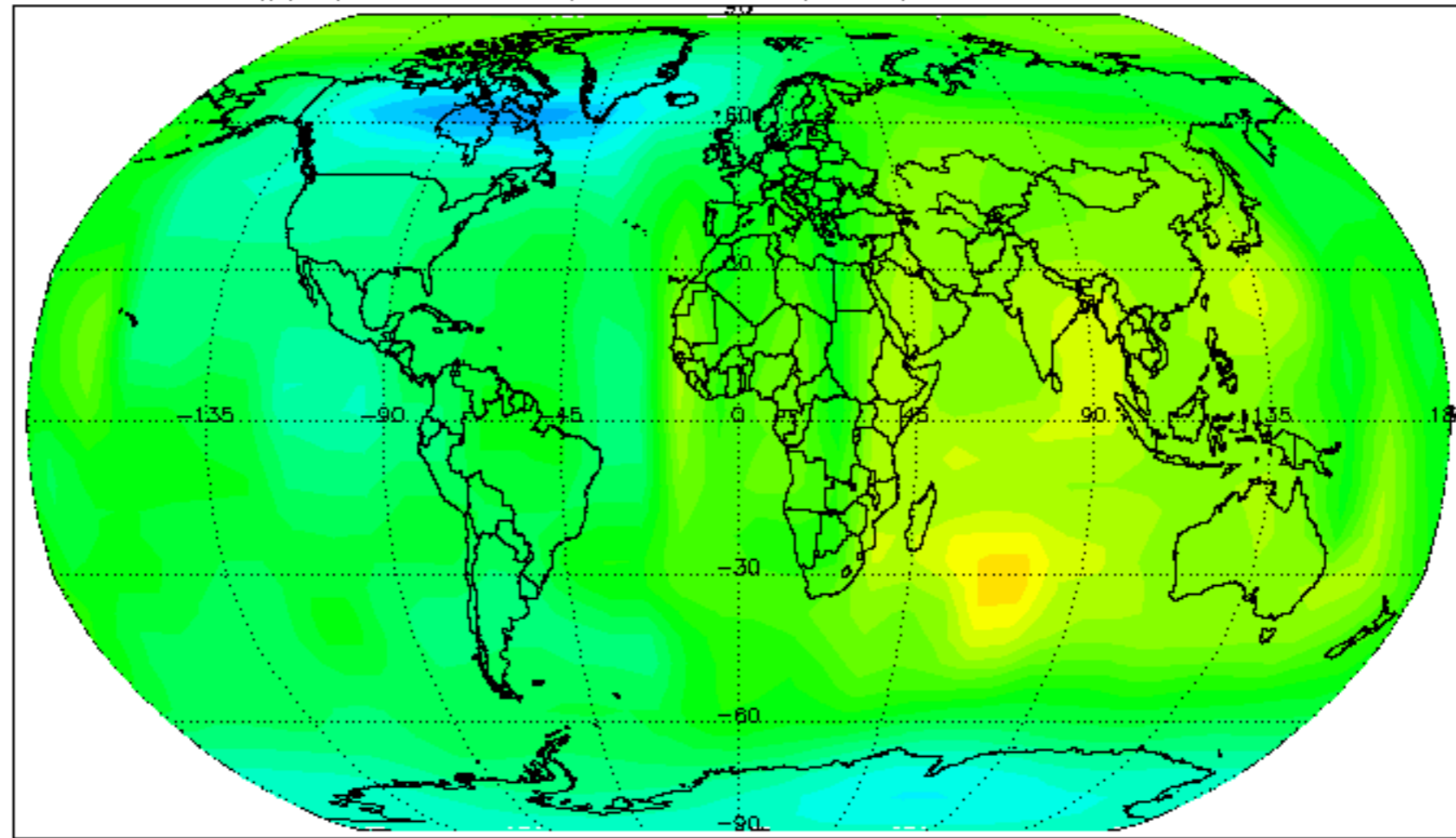
Temp (K) at: 2700 K (60km, 0.2hPa). Daily mean: 24-JAN-2012



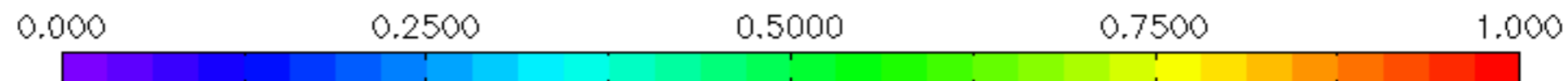
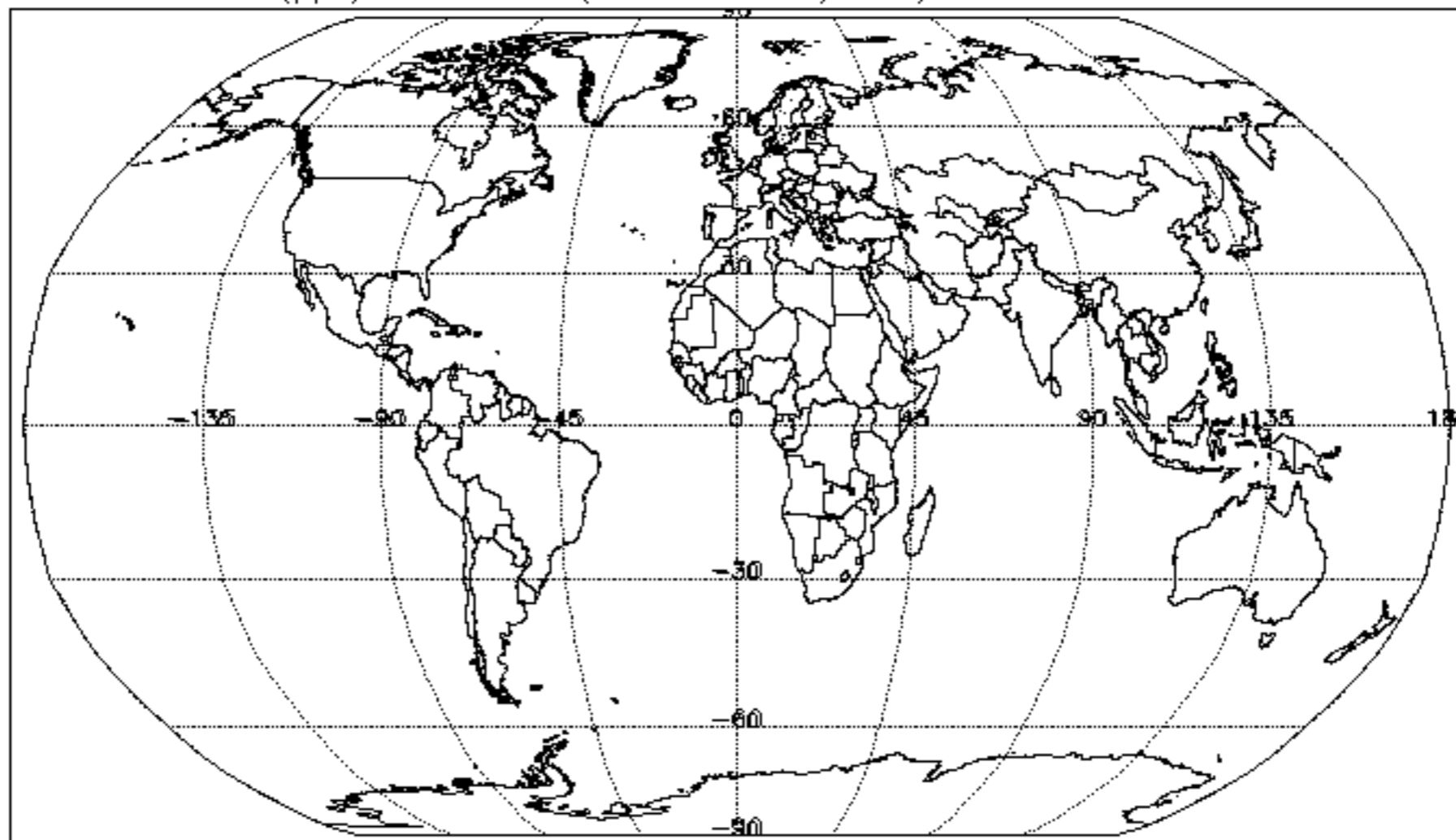
H₂O (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 24-JAN-2012



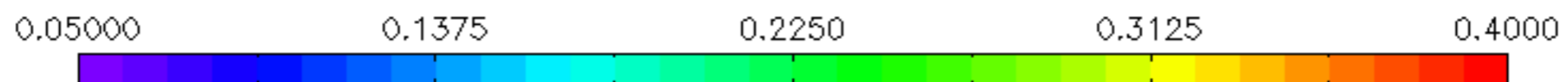
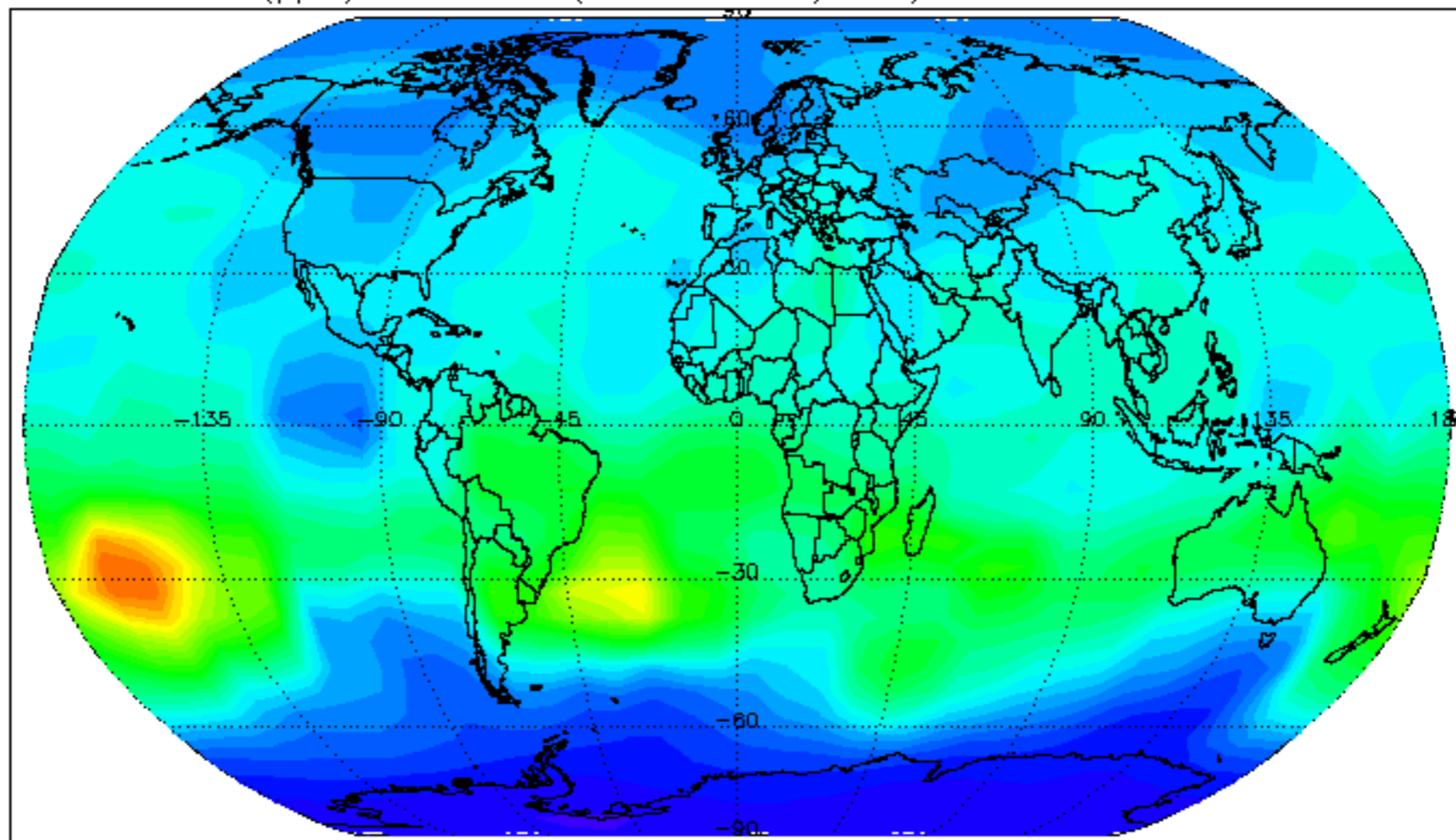
O3 (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 24-JAN-2012



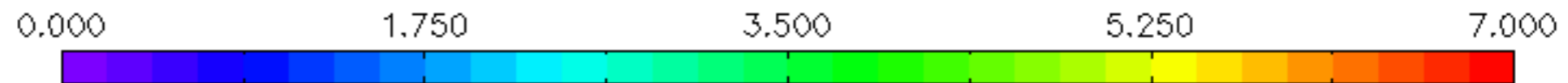
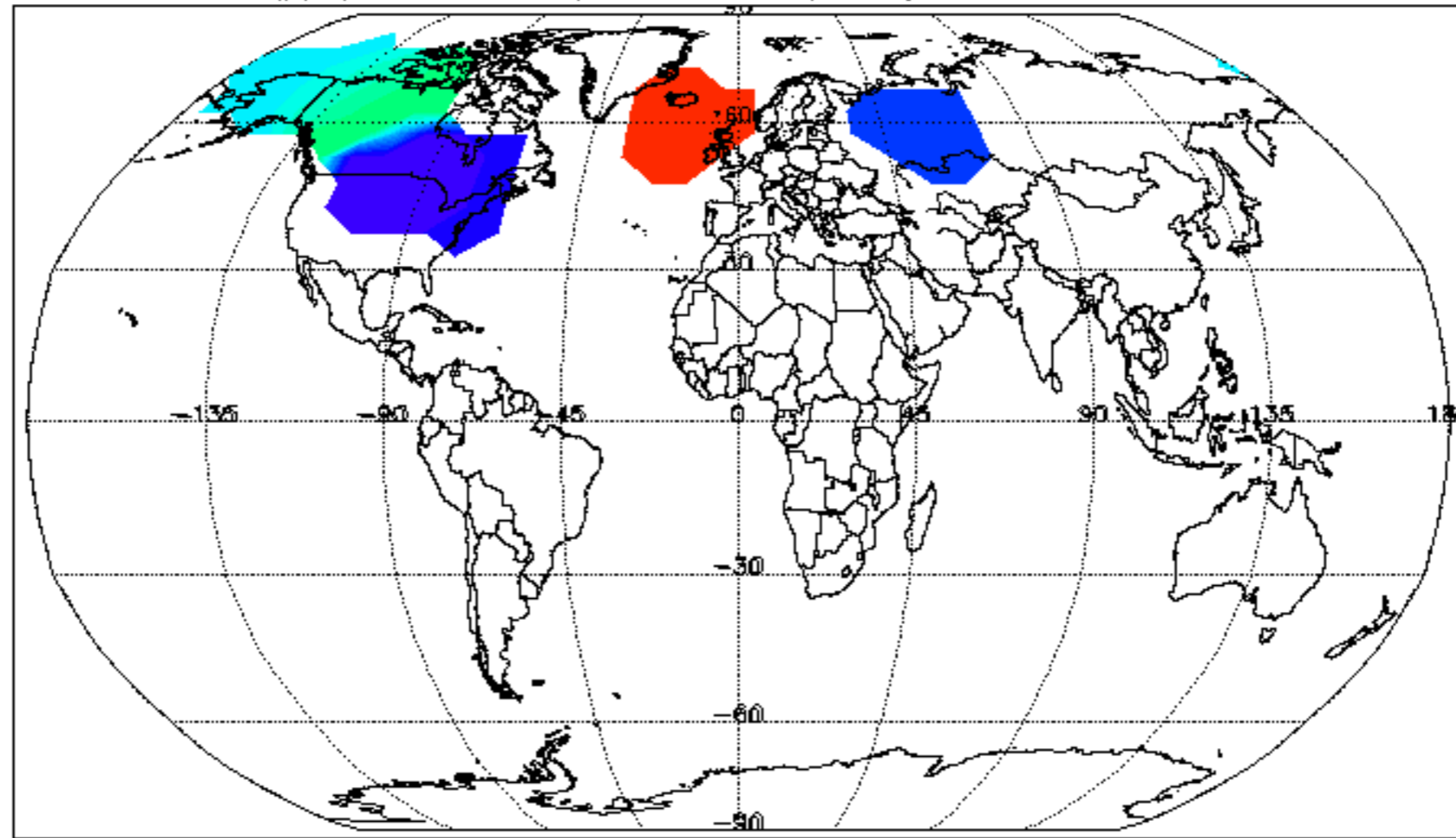
HNO₃ (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 24-JAN-2012



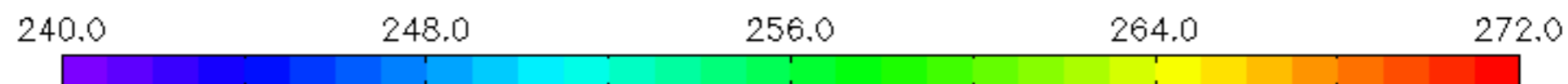
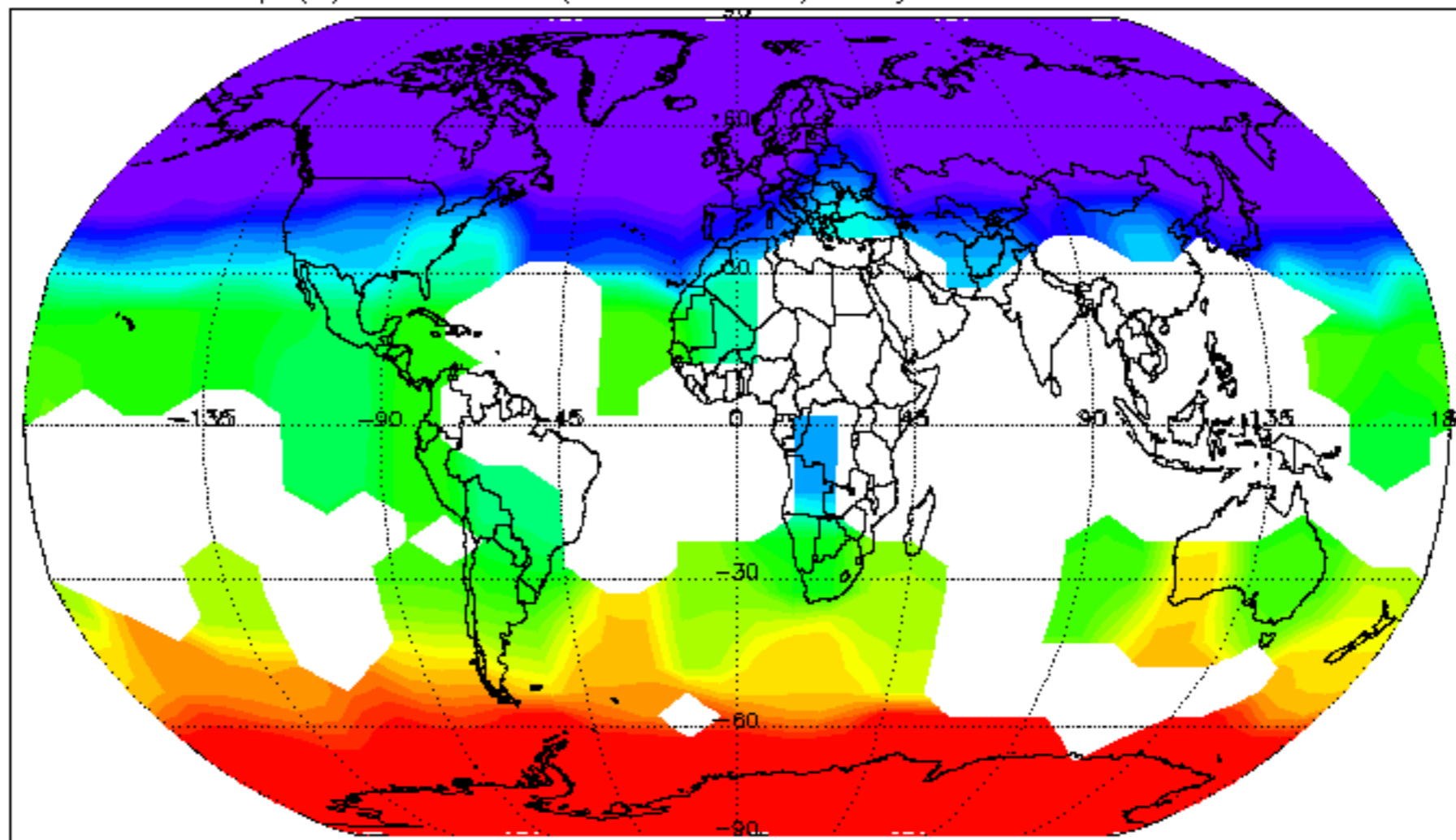
CH₄ (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 24-JAN-2012



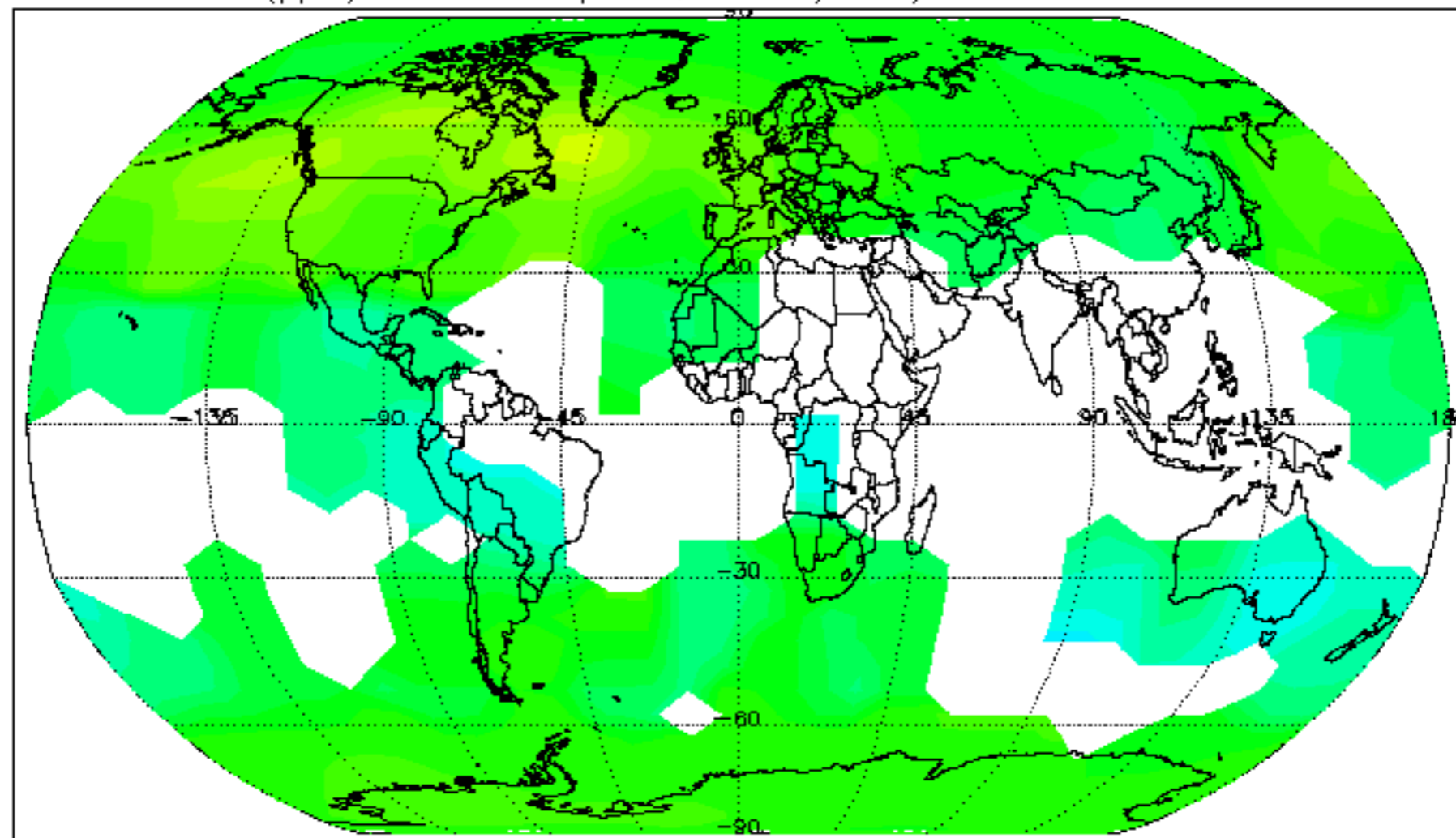
N₂O (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 24-JAN-2012



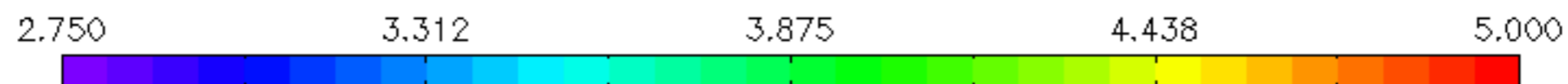
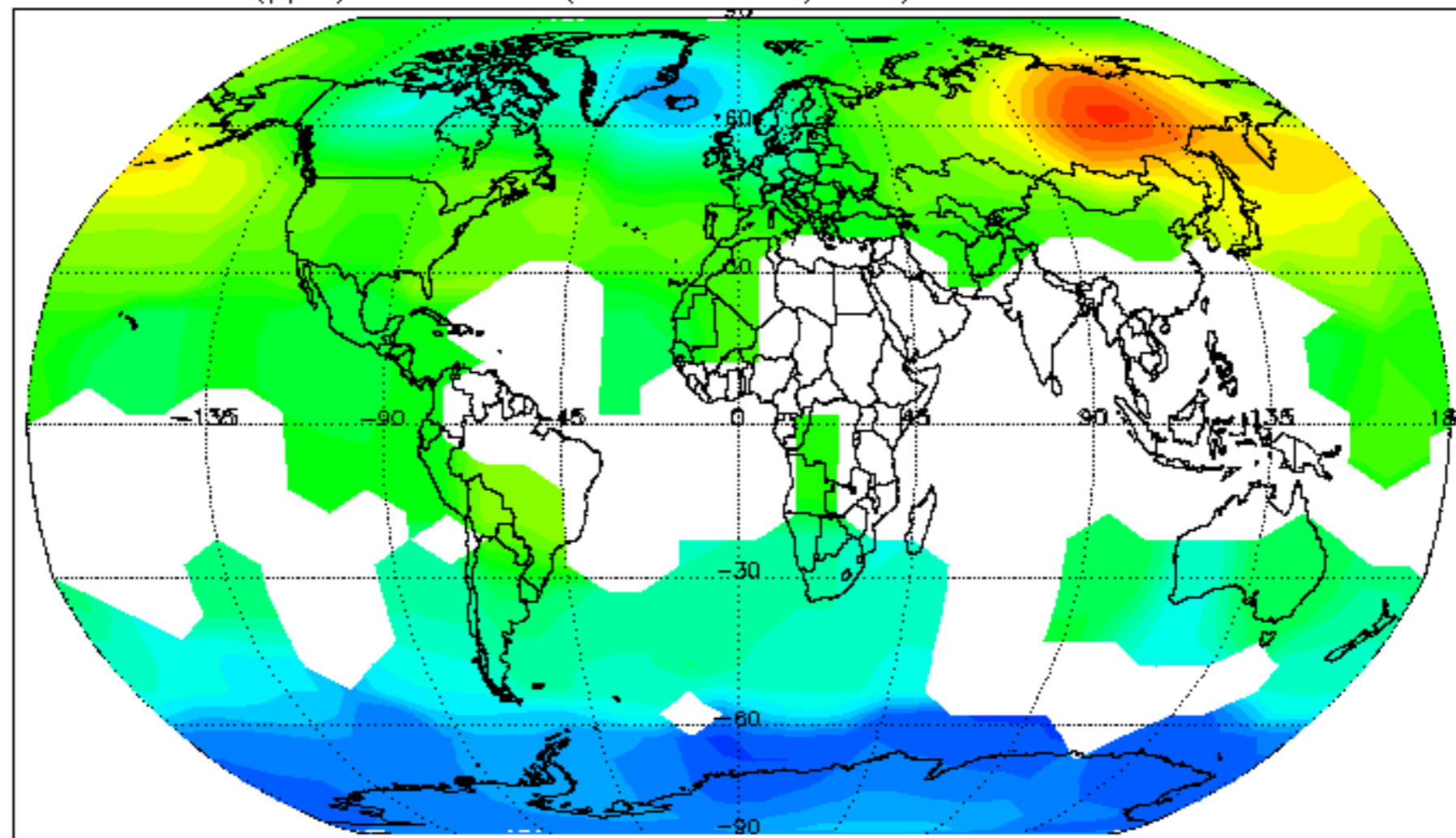
Temp (K) at: 1700 K (45km, 1.5hPa). Daily mean: 24-JAN-2012



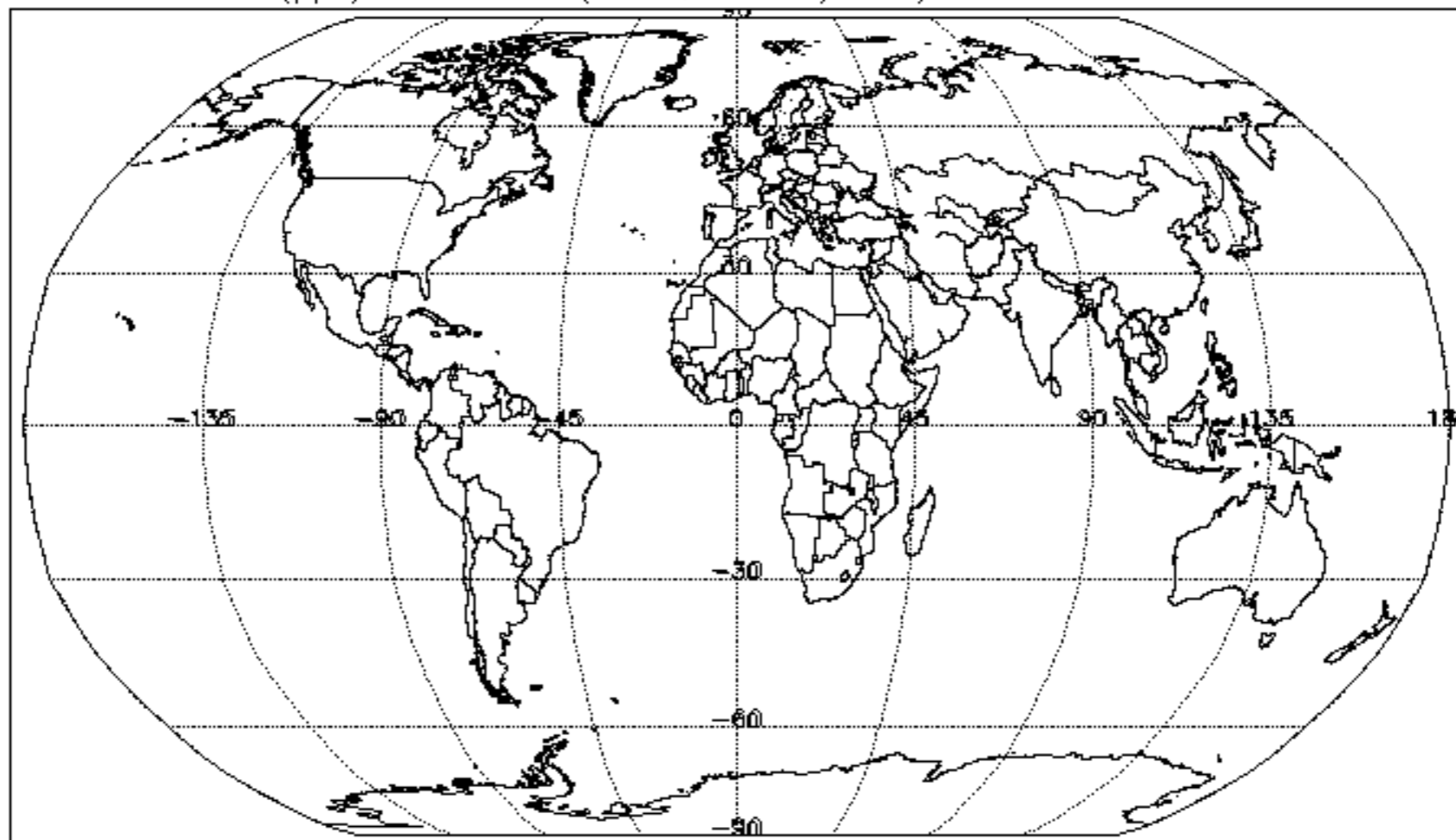
H₂O (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 24-JAN-2012



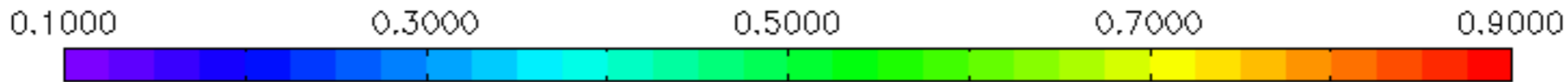
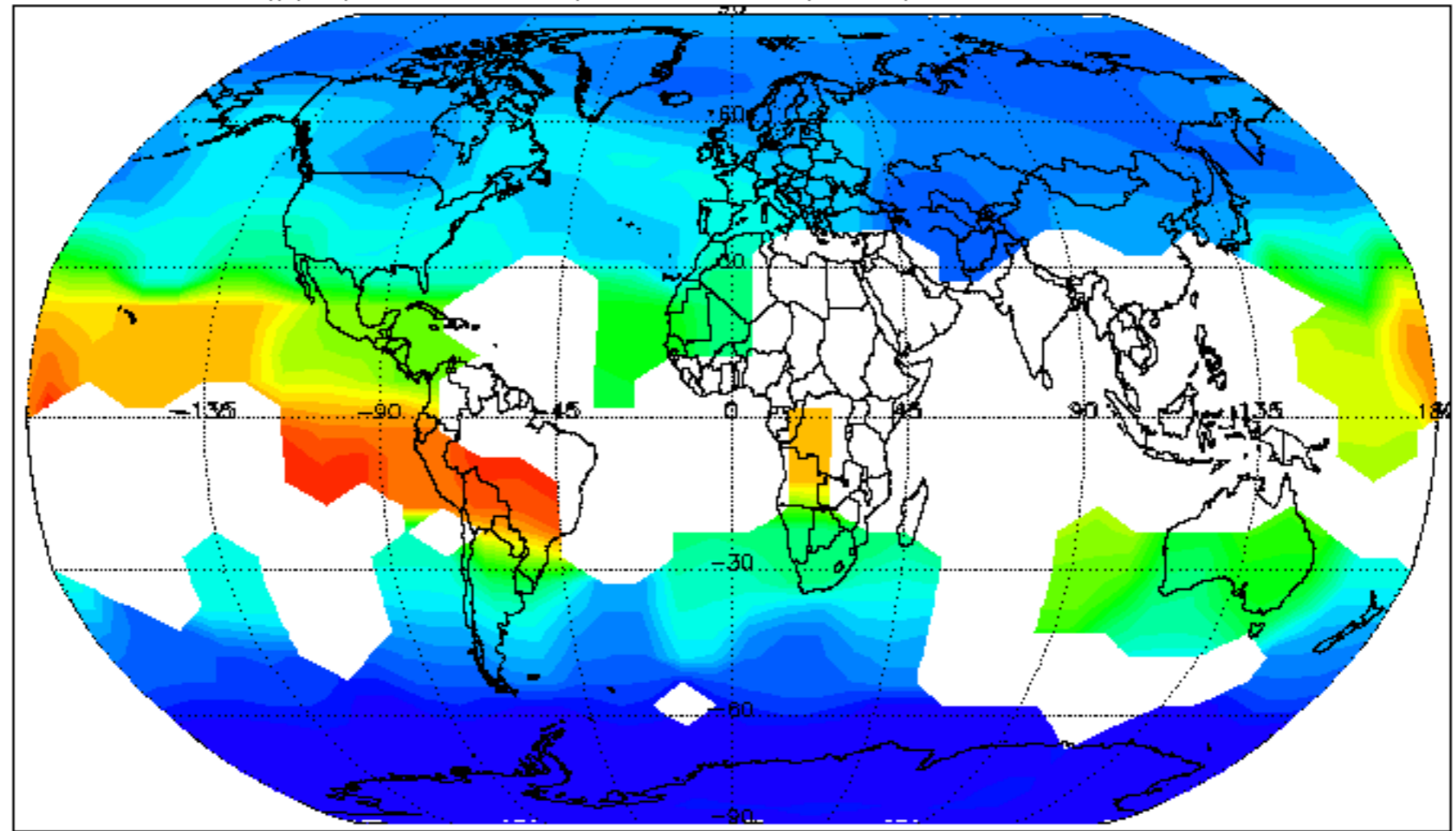
O₃ (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 24-JAN-2012



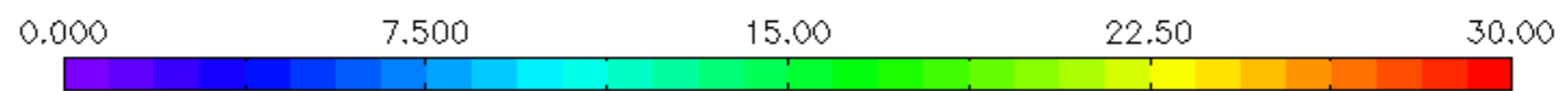
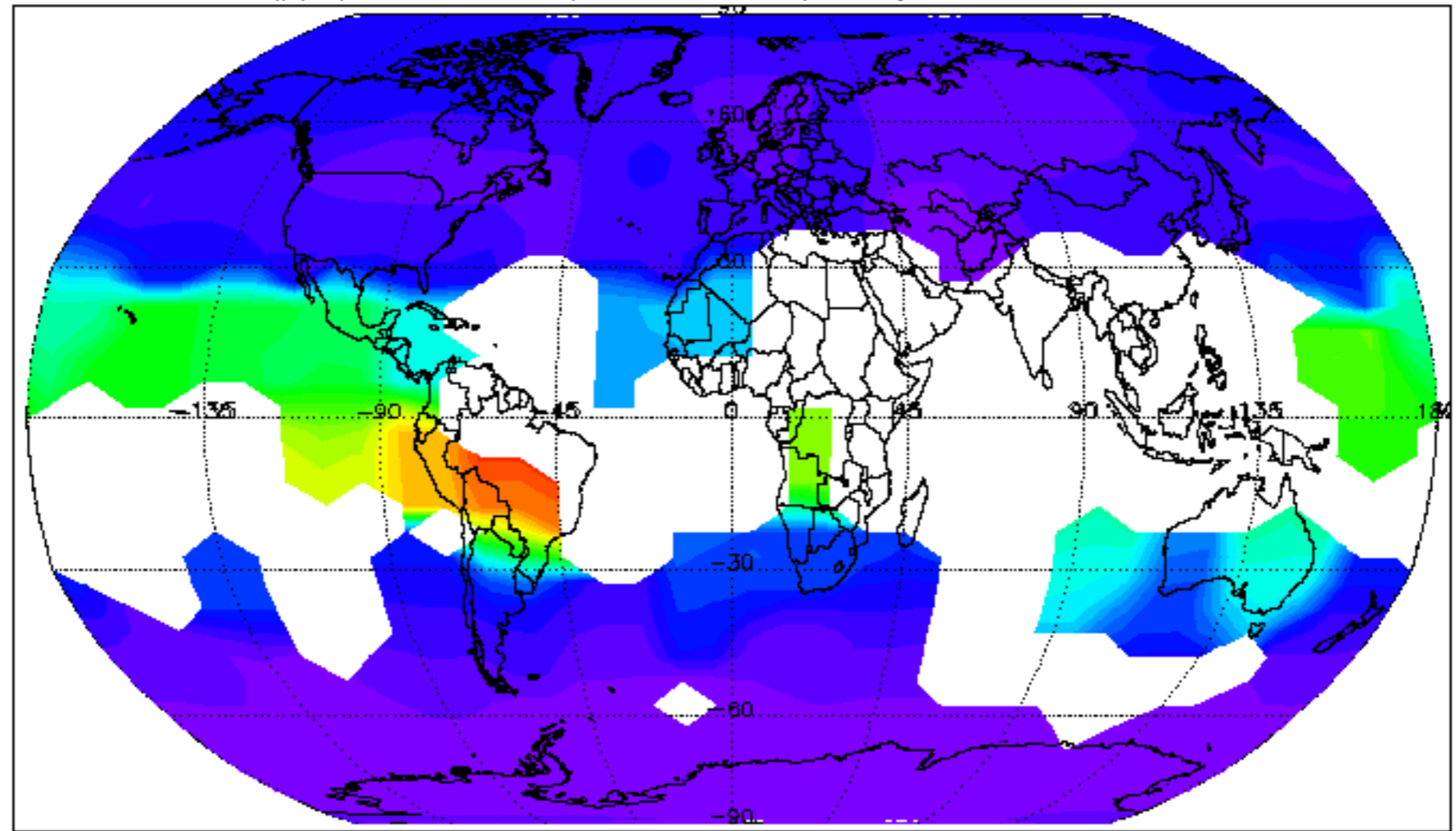
HNO₃ (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 24-JAN-2012



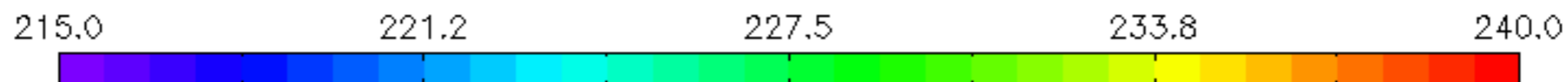
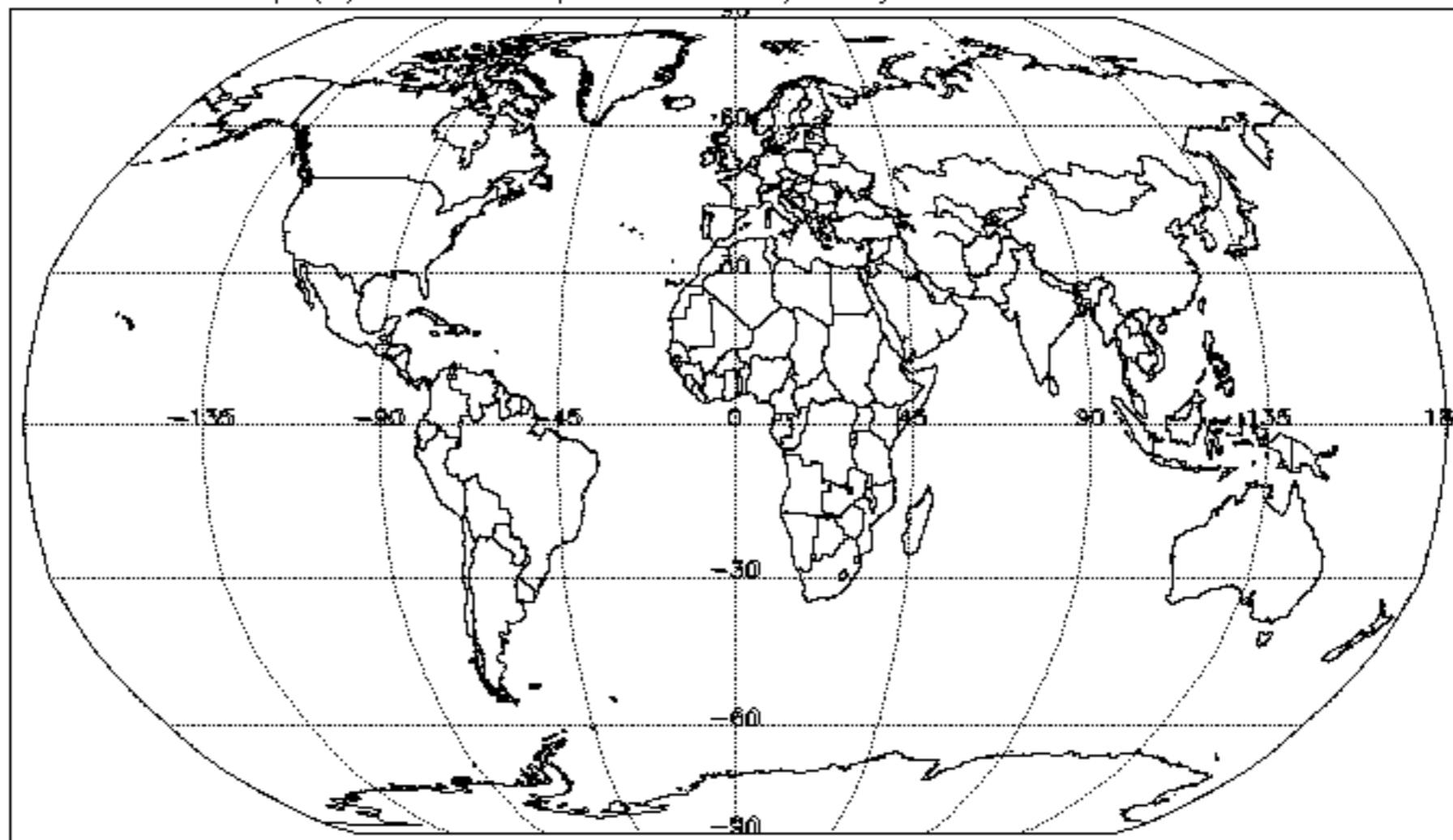
CH₄ (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 24-JAN-2012



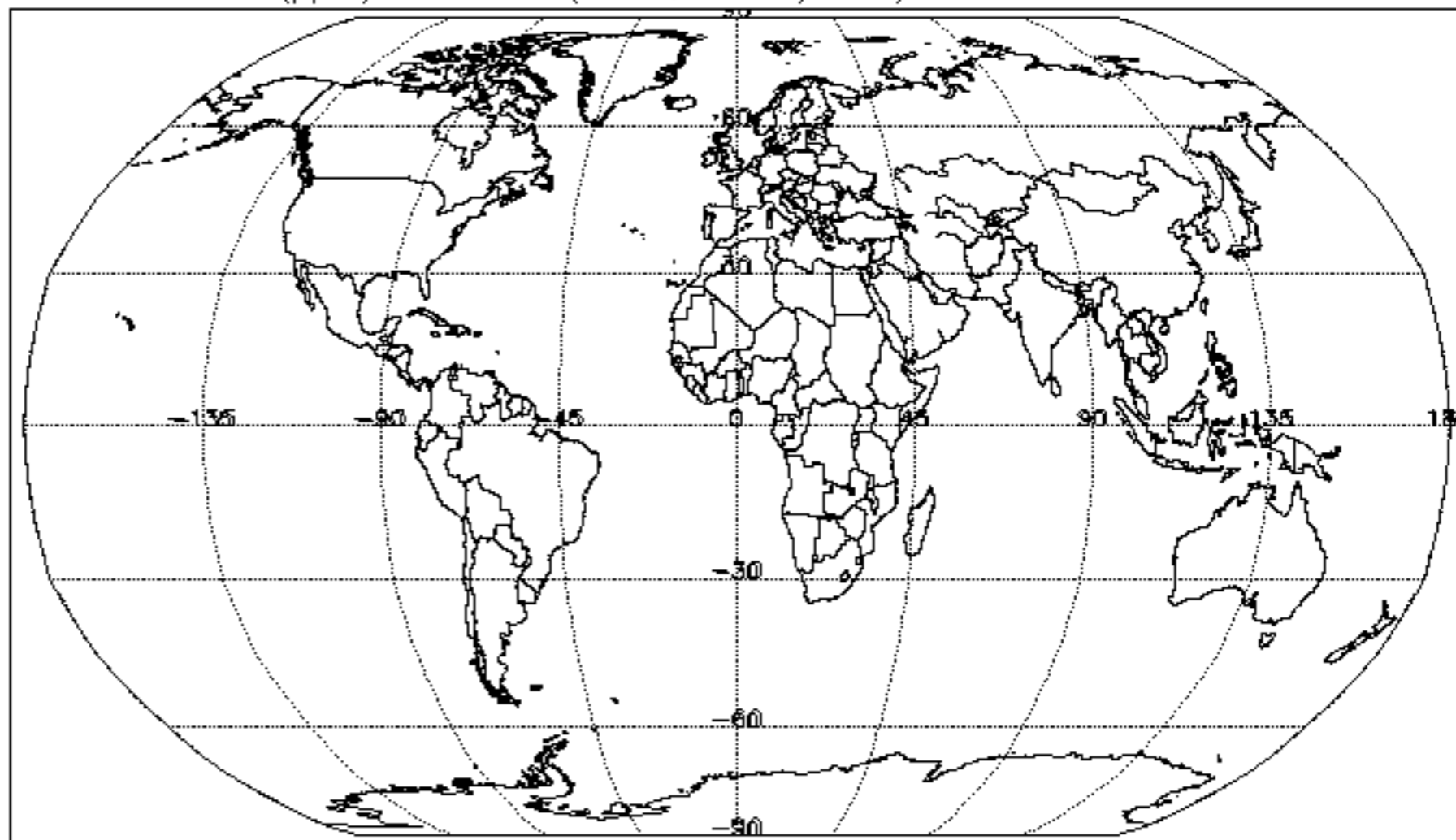
N₂O (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 24-JAN-2012



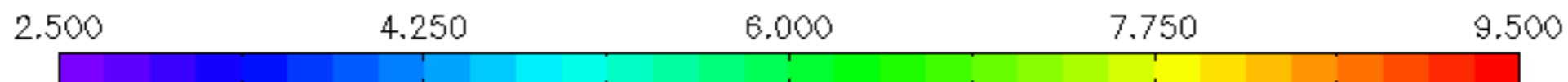
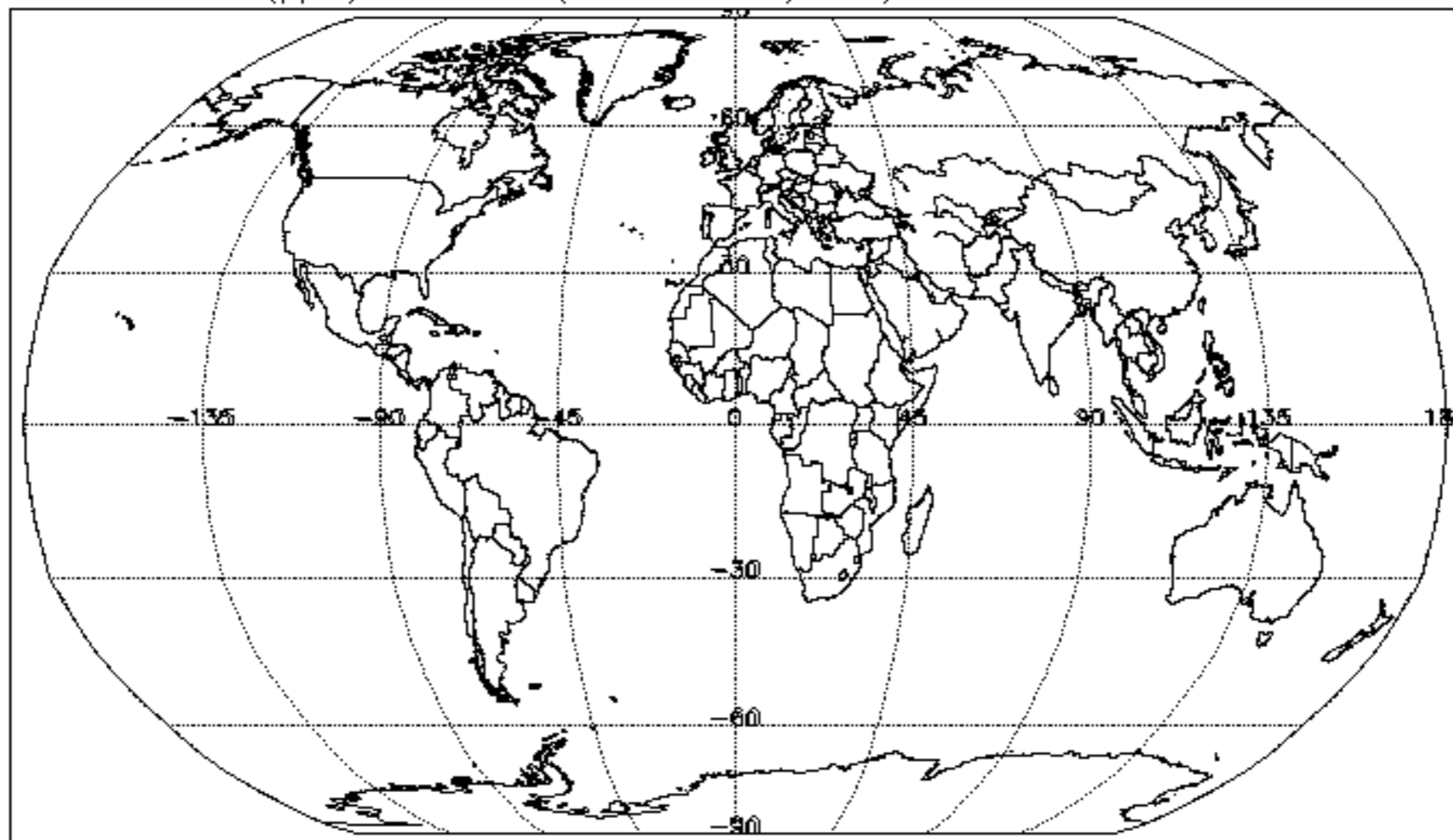
Temp (K) at: 850 K (32km, 10hPa). Daily mean: 24-JAN-2012



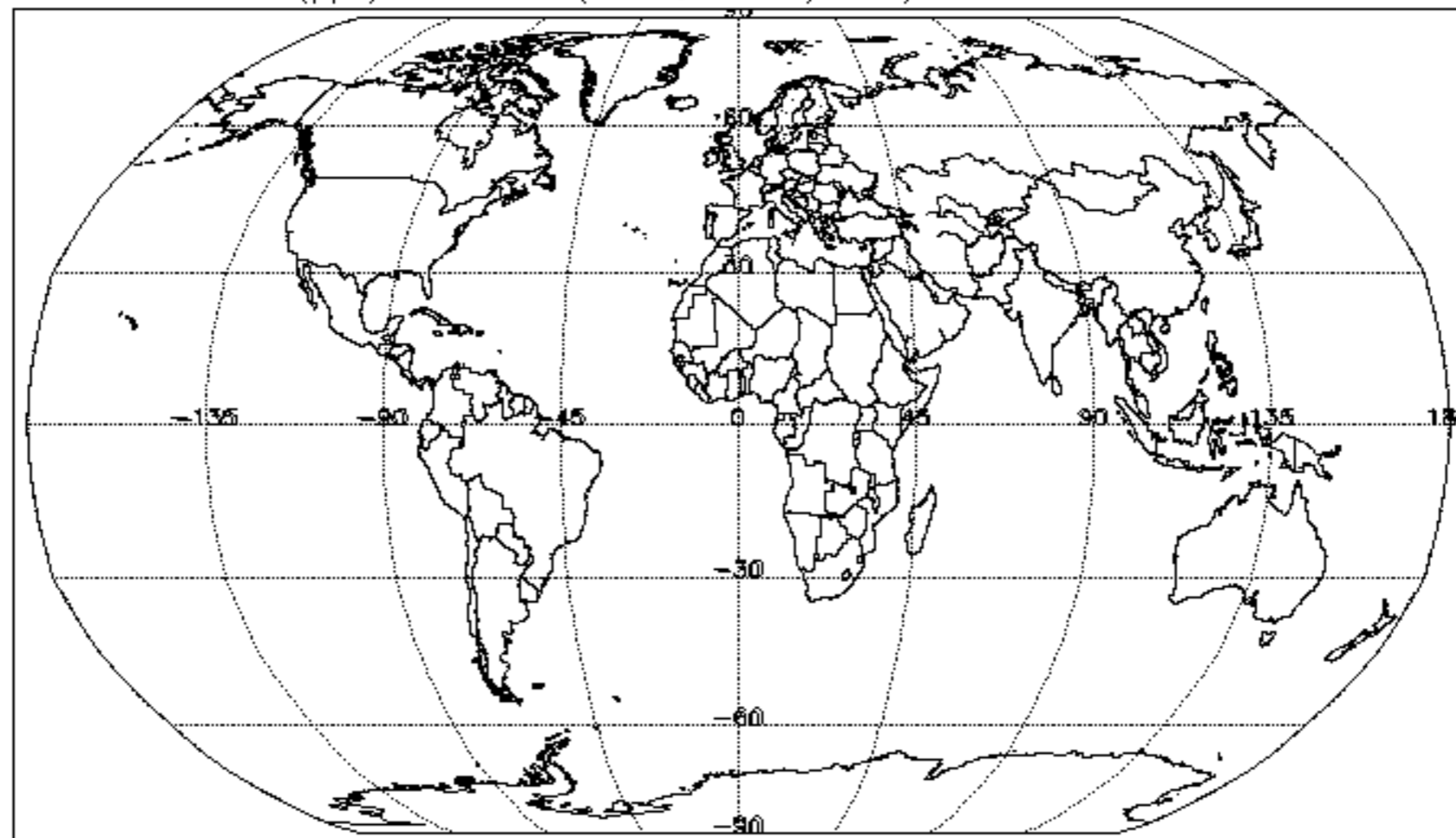
H₂O (ppm) at: 850 K (32km, 10hPa). Daily mean: 24-JAN-2012



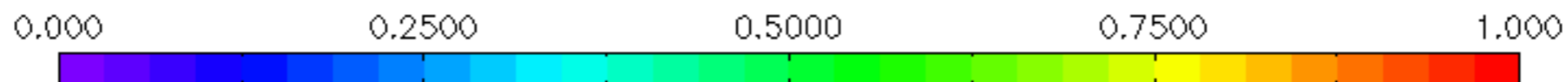
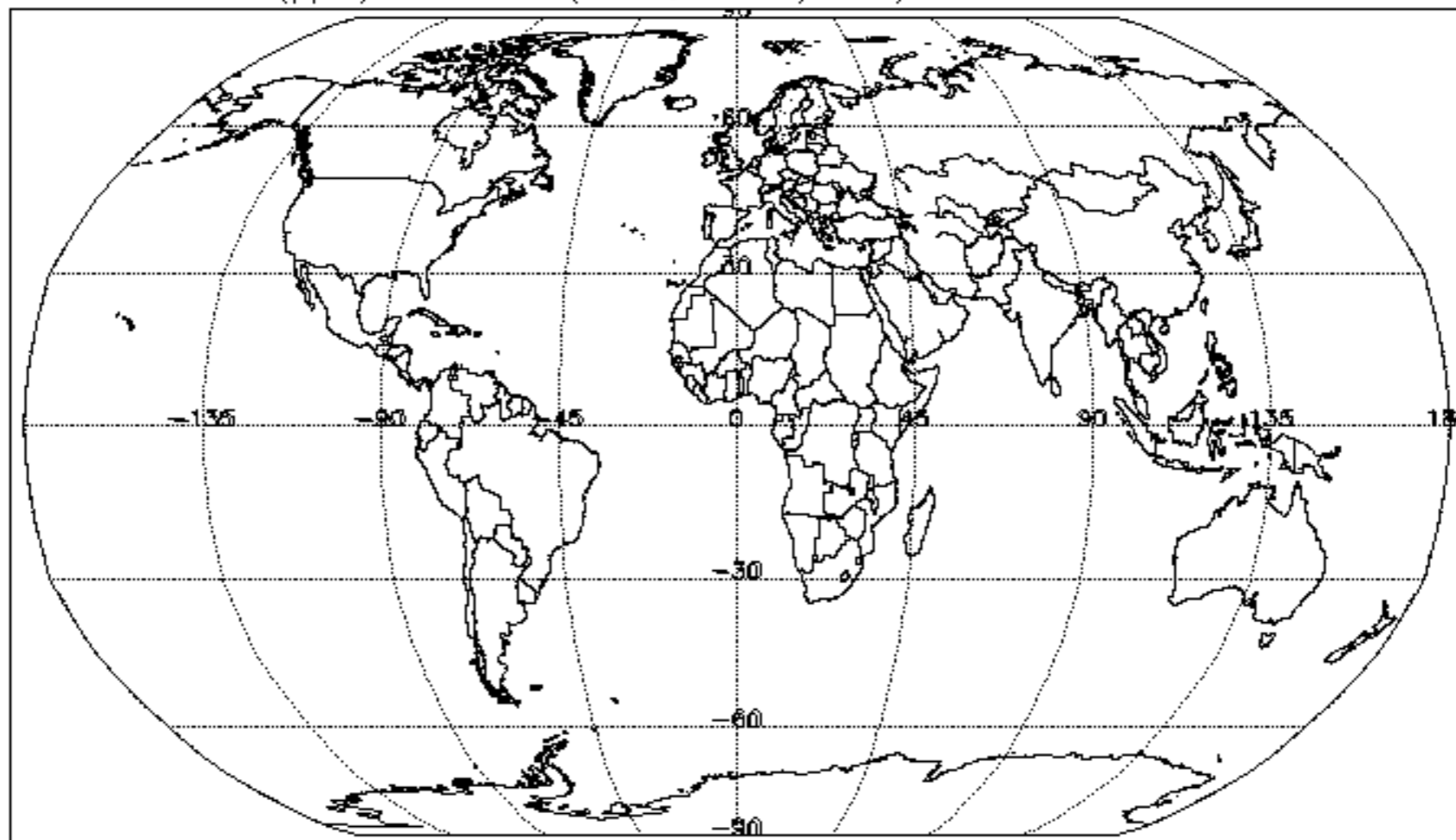
O₃ (ppm) at: 850 K (32km, 10hPa). Daily mean: 24-JAN-2012



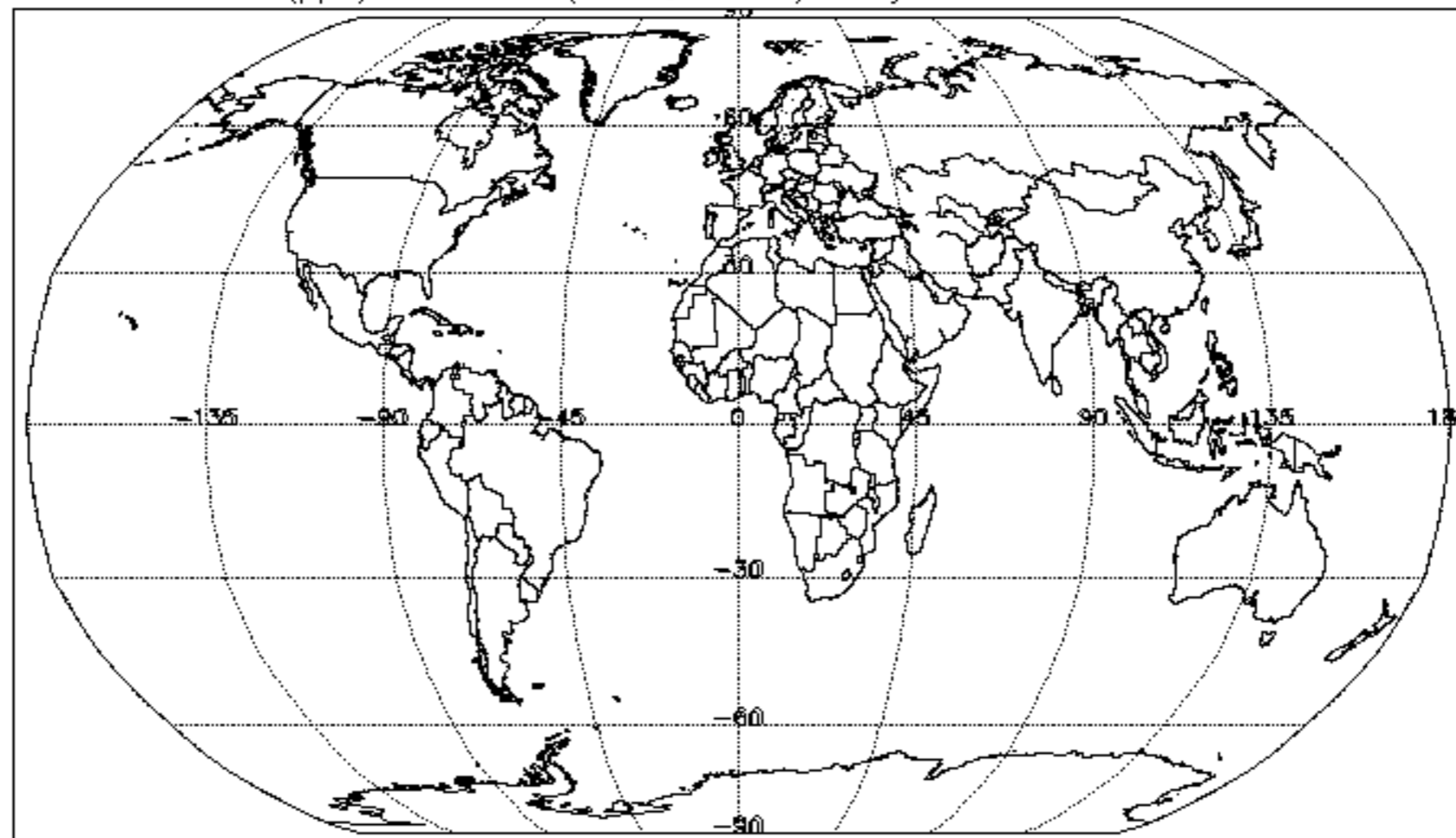
HNO₃ (ppb) at: 850 K (32km, 10hPa). Daily mean: 24-JAN-2012



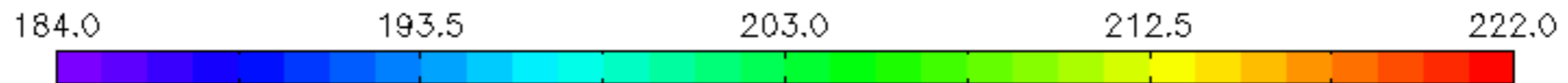
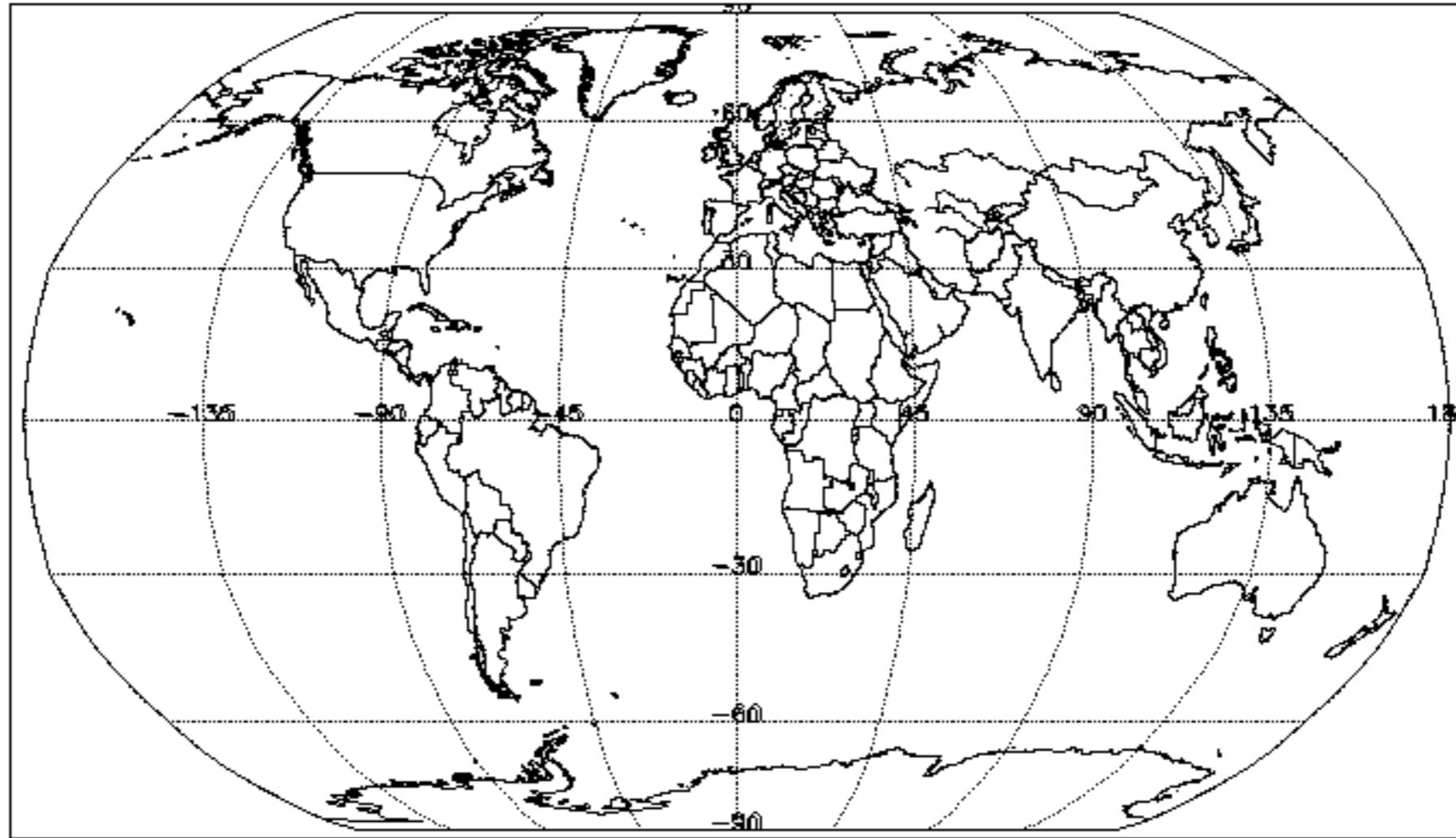
CH₄ (ppm) at: 850 K (32km, 10hPa). Daily mean: 24-JAN-2012



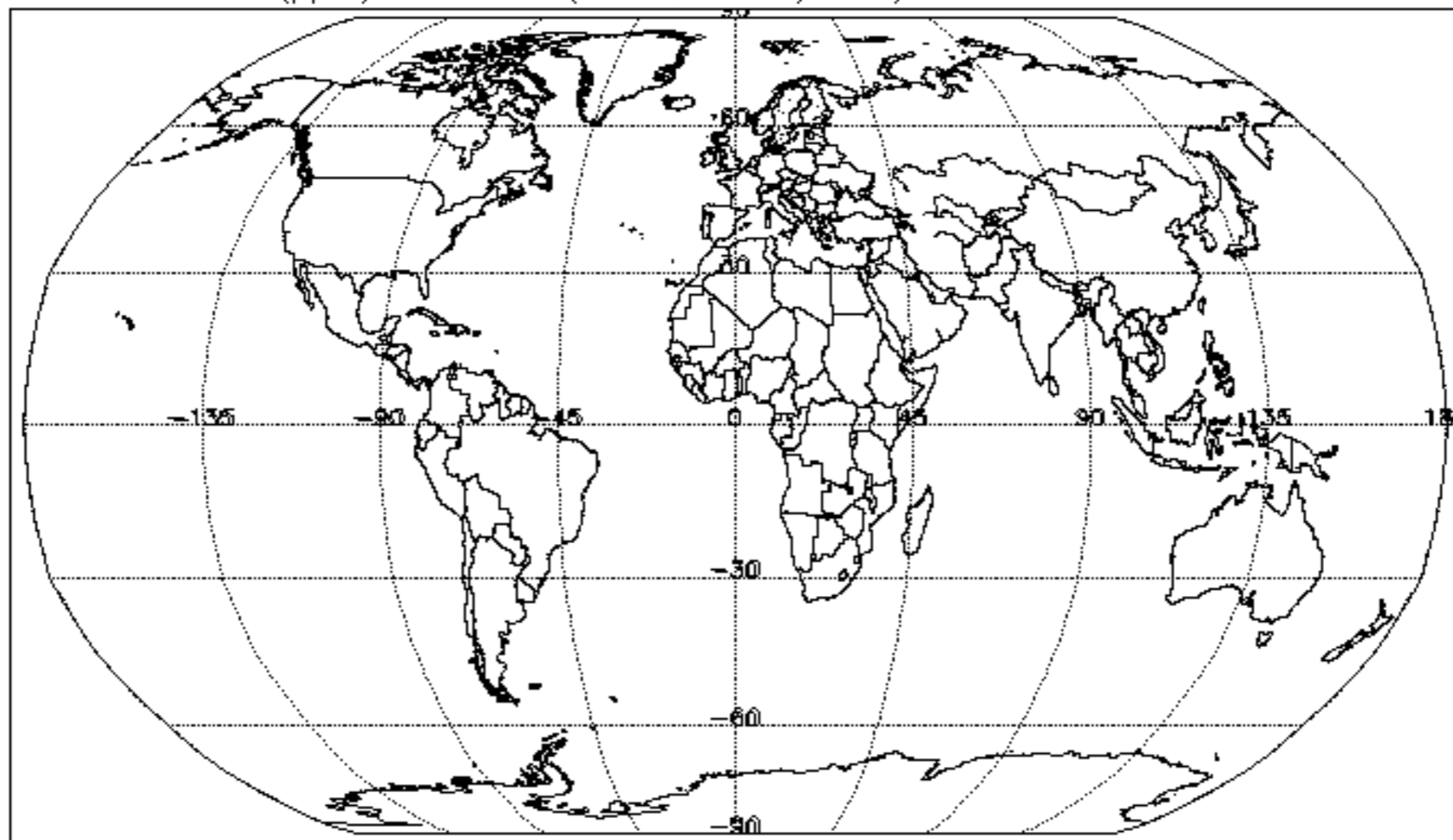
N₂O (ppb) at: 850 K (32km, 10hPa). Daily mean: 24-JAN-2012



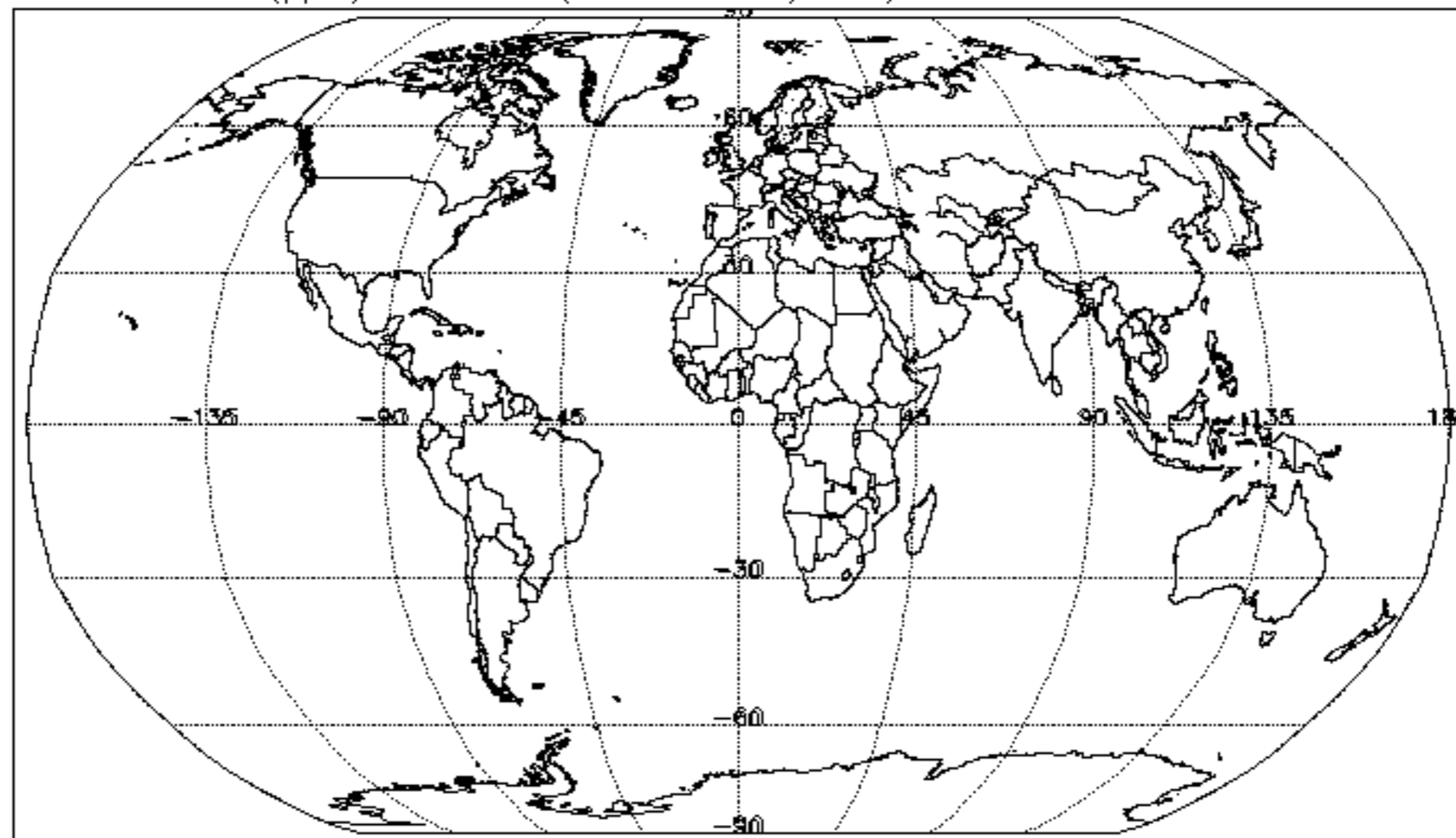
Temp (K) at: 490 K (19km, 55hPa). Daily mean: 24-JAN-2012



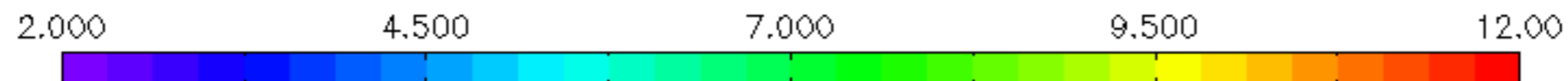
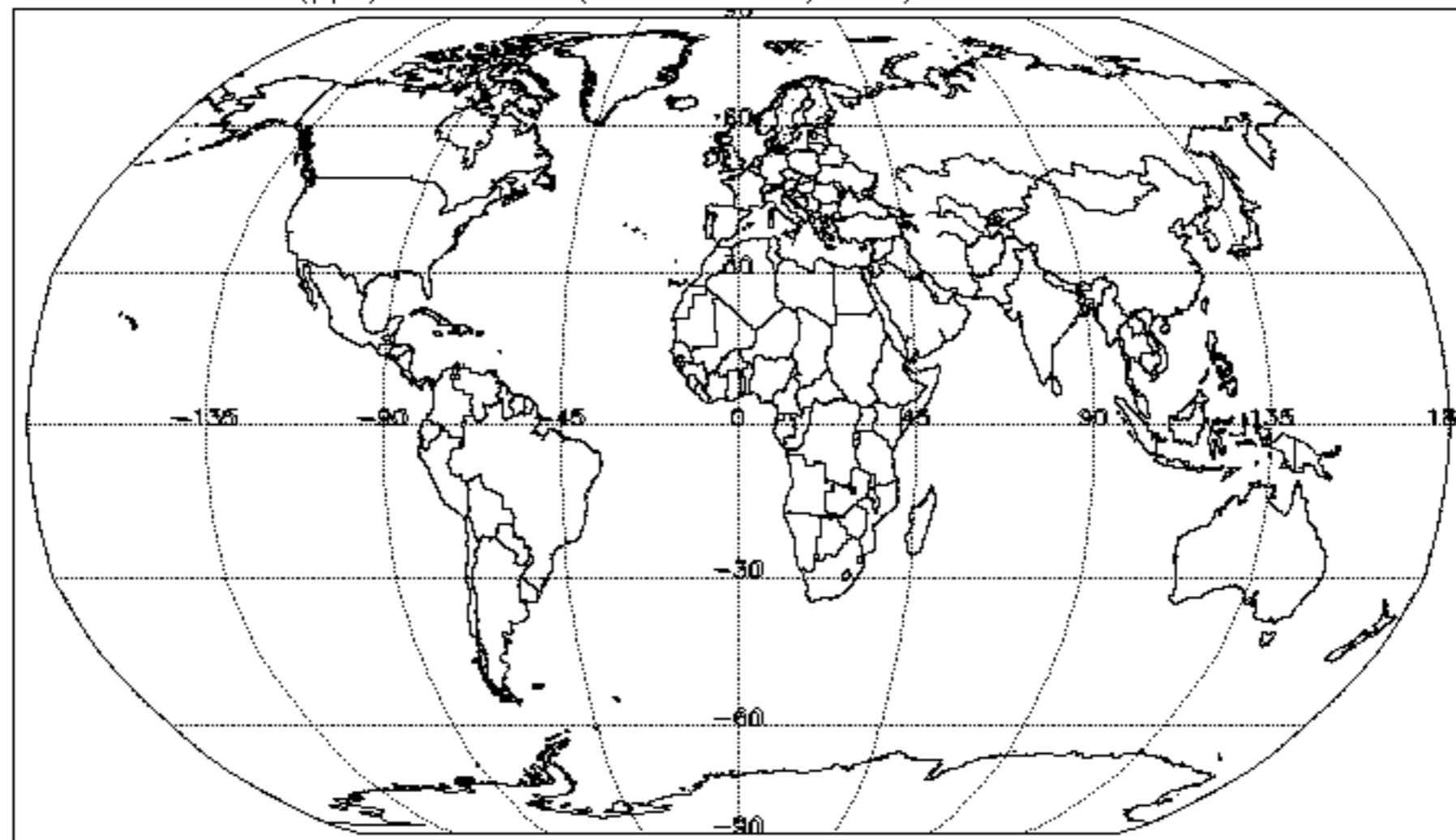
H₂O (ppm) at: 490 K (19km, 55hPa). Daily mean: 24-JAN-2012



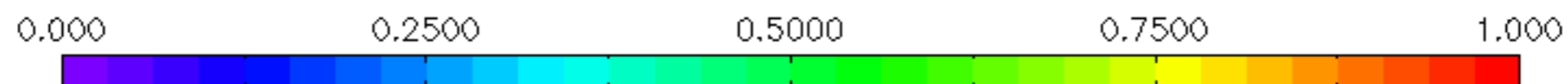
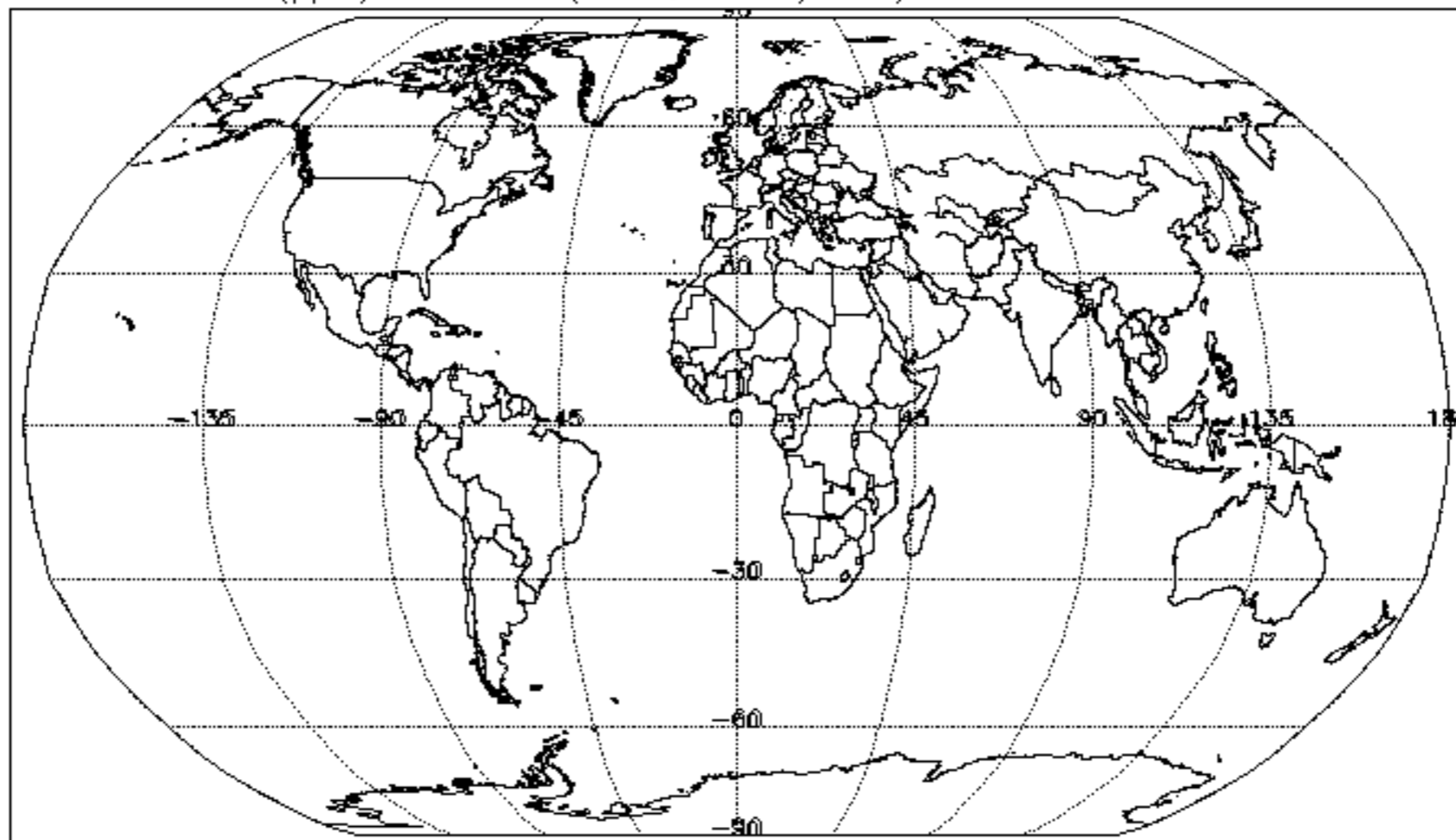
O3 (ppm) at: 490 K (19km, 55hPa). Daily mean: 24-JAN-2012



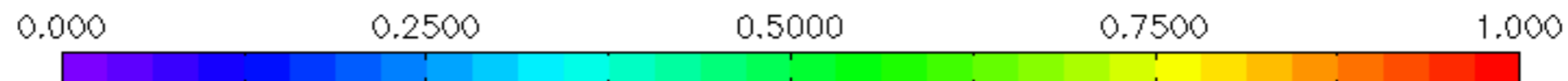
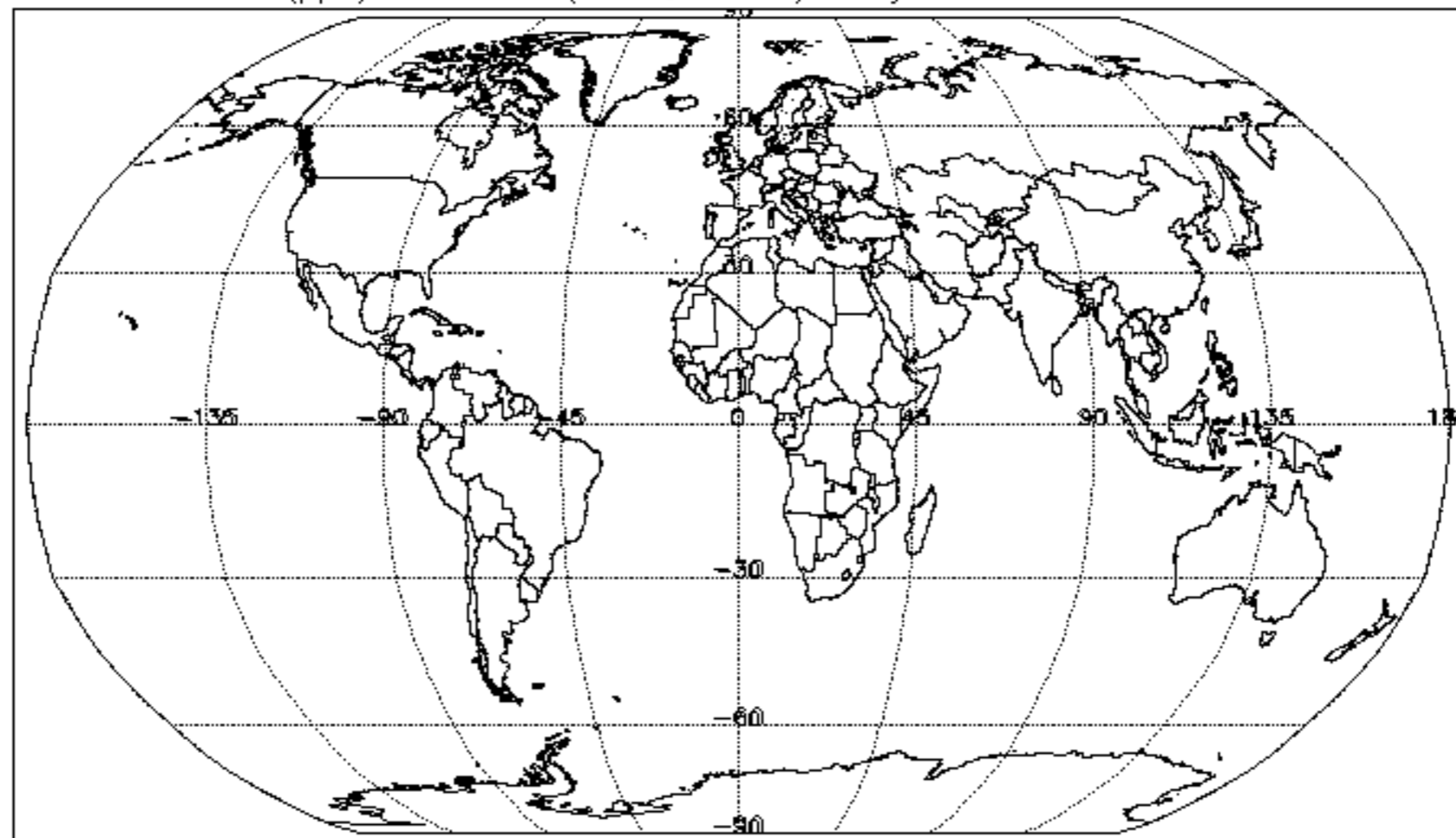
HNO₃ (ppb) at: 490 K (19km, 55hPa). Daily mean: 24-JAN-2012



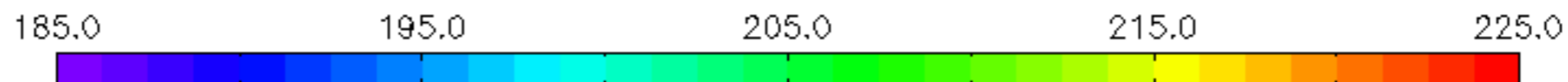
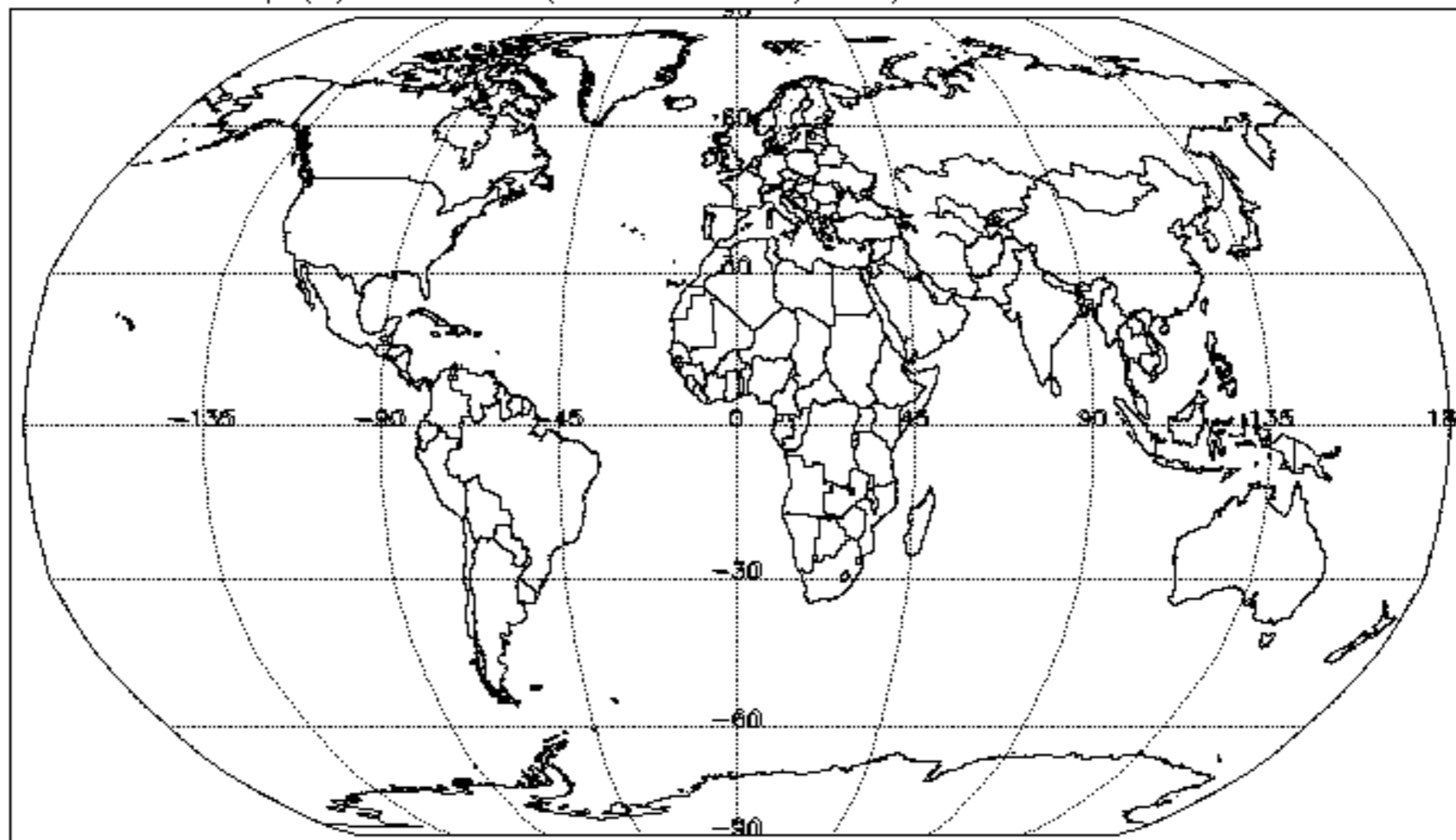
CH₄ (ppm) at: 490 K (19km, 55hPa). Daily mean: 24-JAN-2012



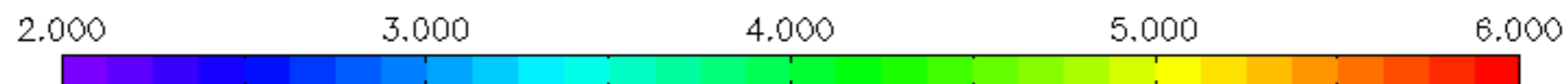
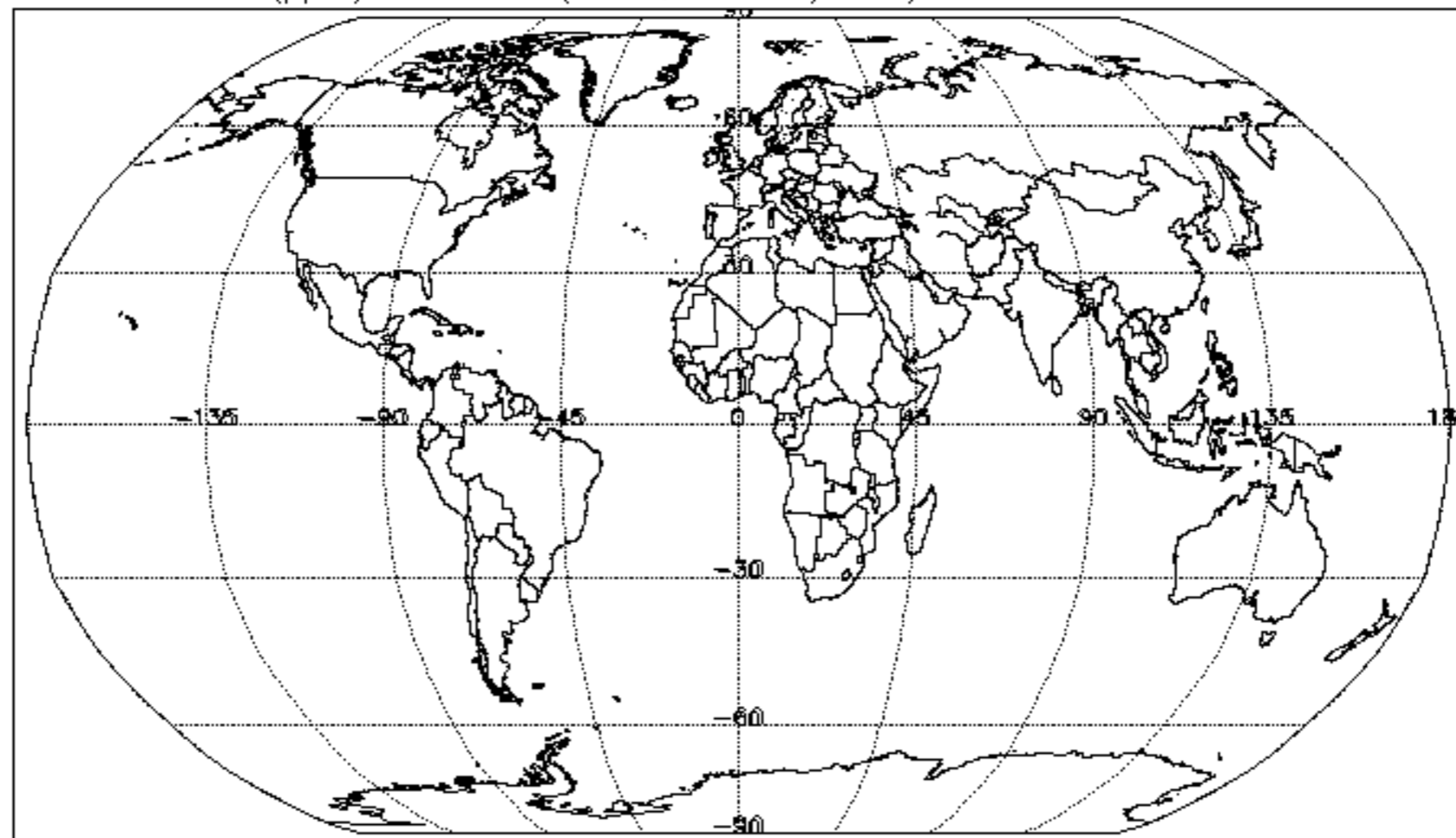
N₂O (ppb) at: 490 K (19km, 55hPa). Daily mean: 24-JAN-2012



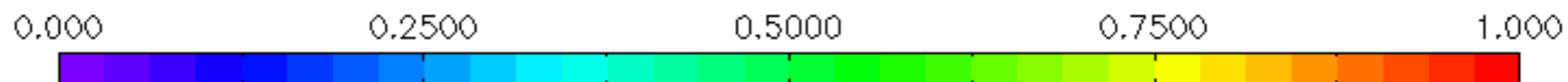
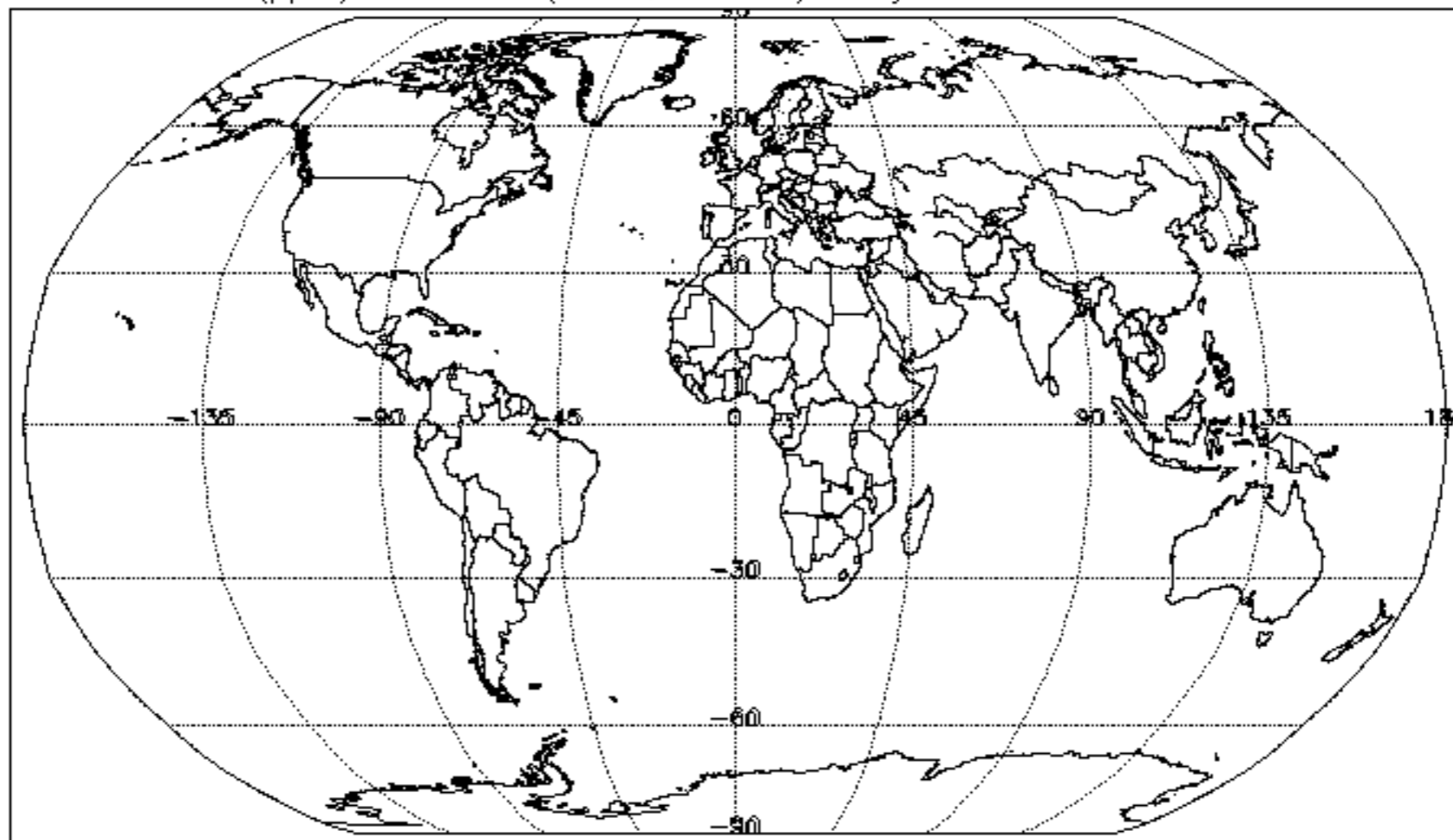
Temp (K) at: 410 K (16km, 100hPa). Daily mean: 24-JAN-2012



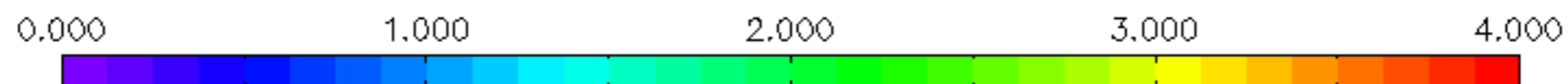
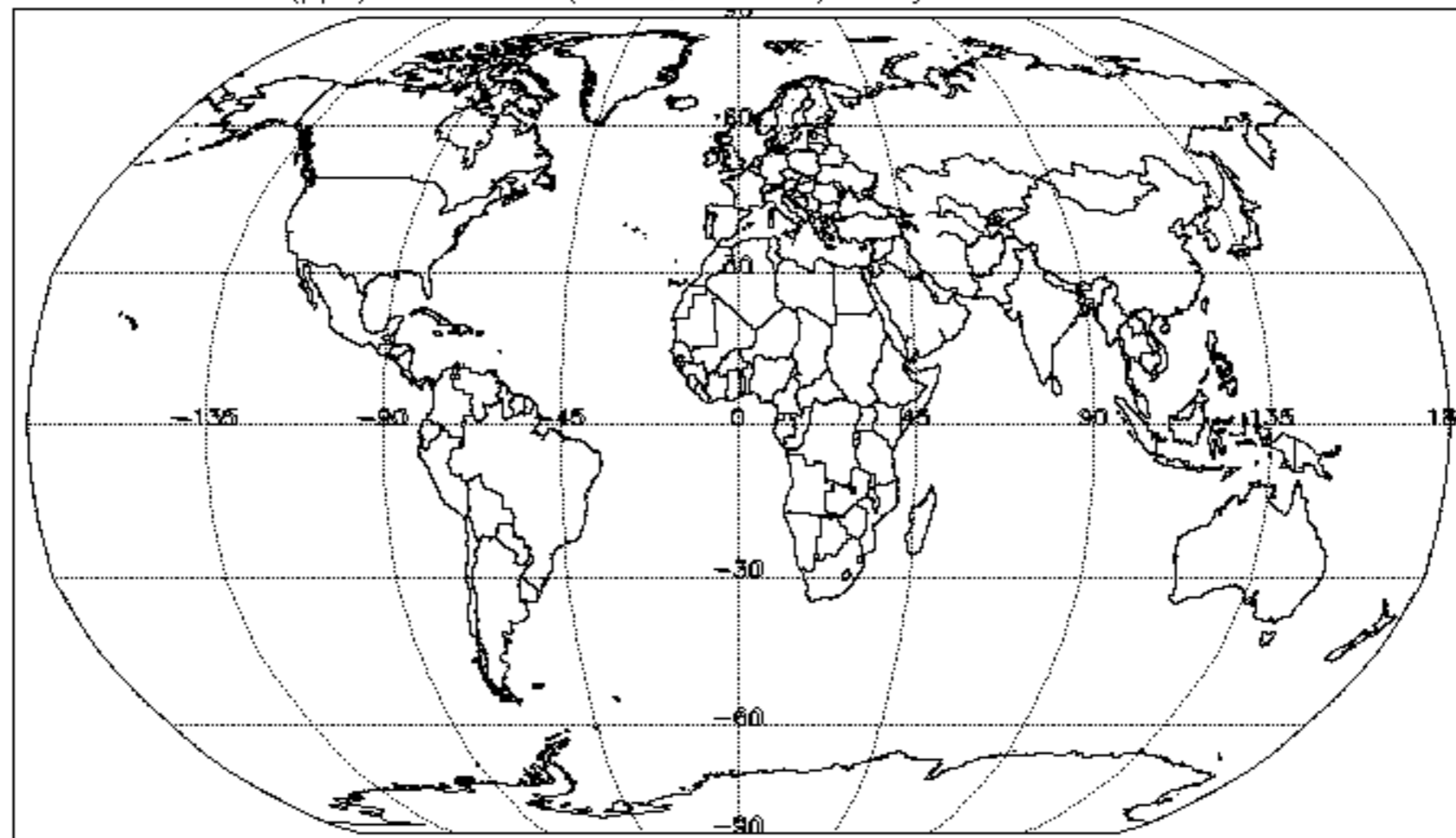
H₂O (ppm) at: 410 K (16km, 100hPa). Daily mean: 24-JAN-2012



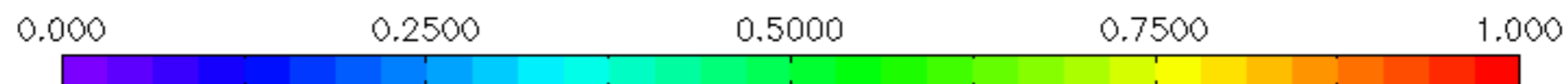
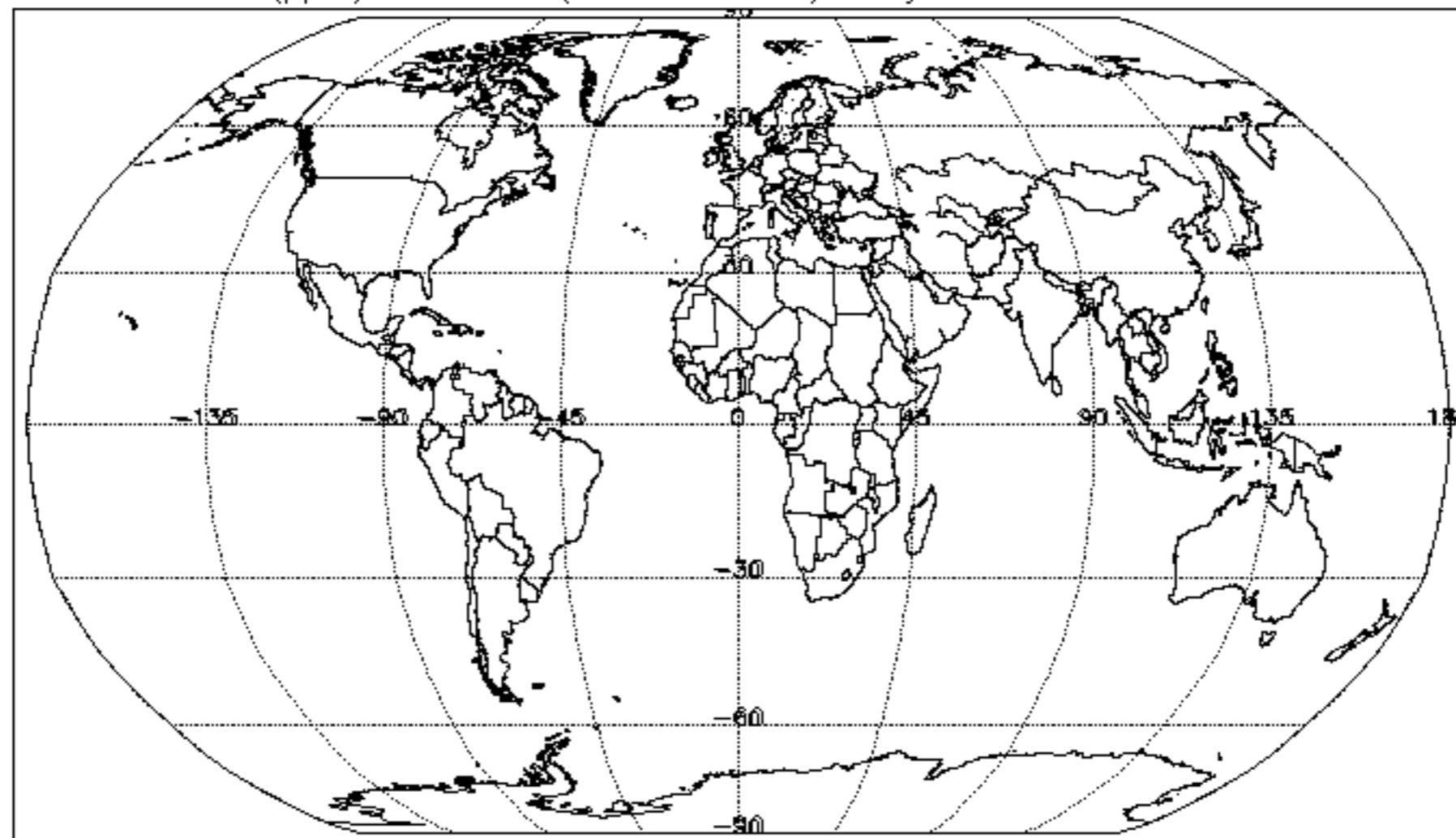
O3 (ppm) at: 410 K (16km, 100hPa). Daily mean: 24-JAN-2012



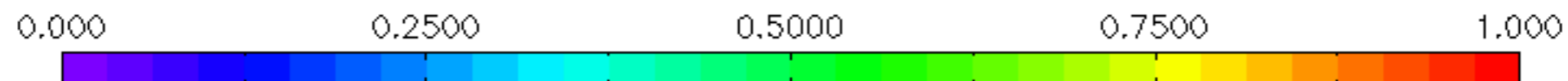
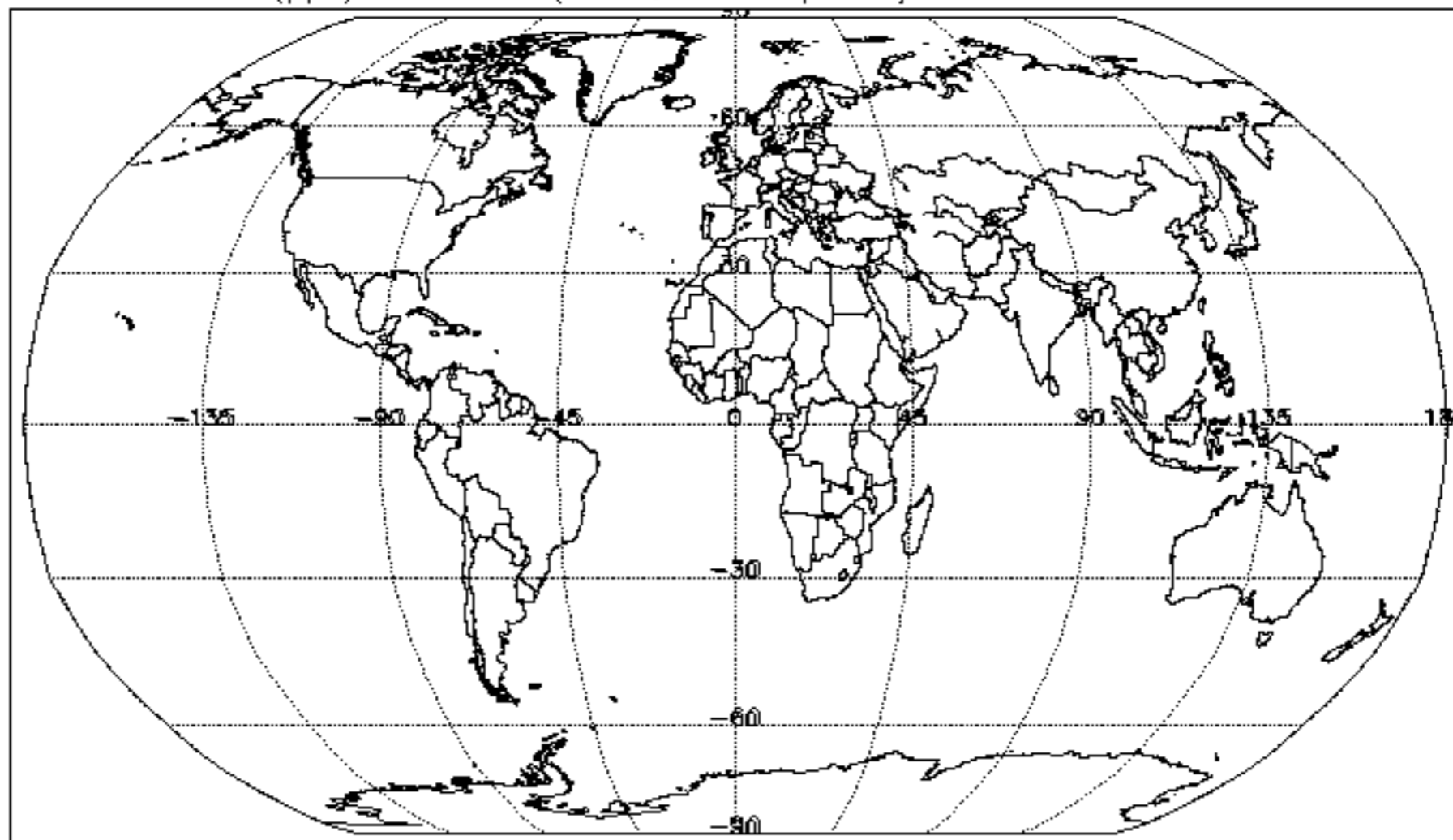
HNO₃ (ppb) at: 410 K (16km, 100hPa). Daily mean: 24-JAN-2012



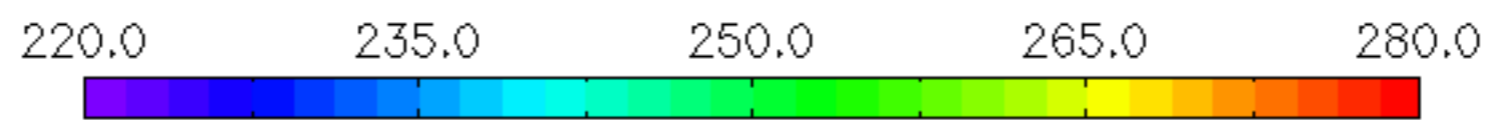
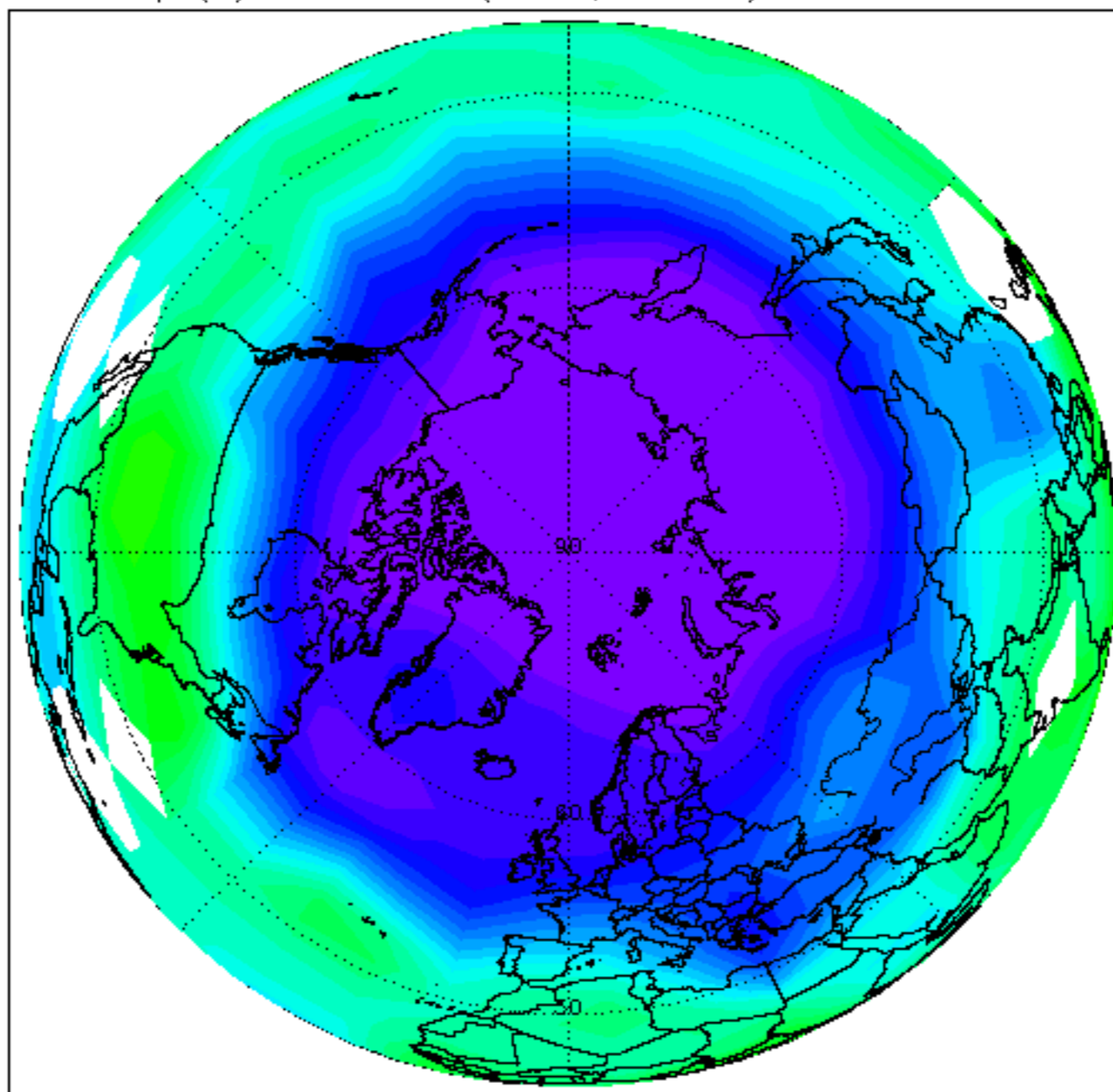
CH₄ (ppm) at: 410 K (16km, 100hPa). Daily mean: 24-JAN-2012



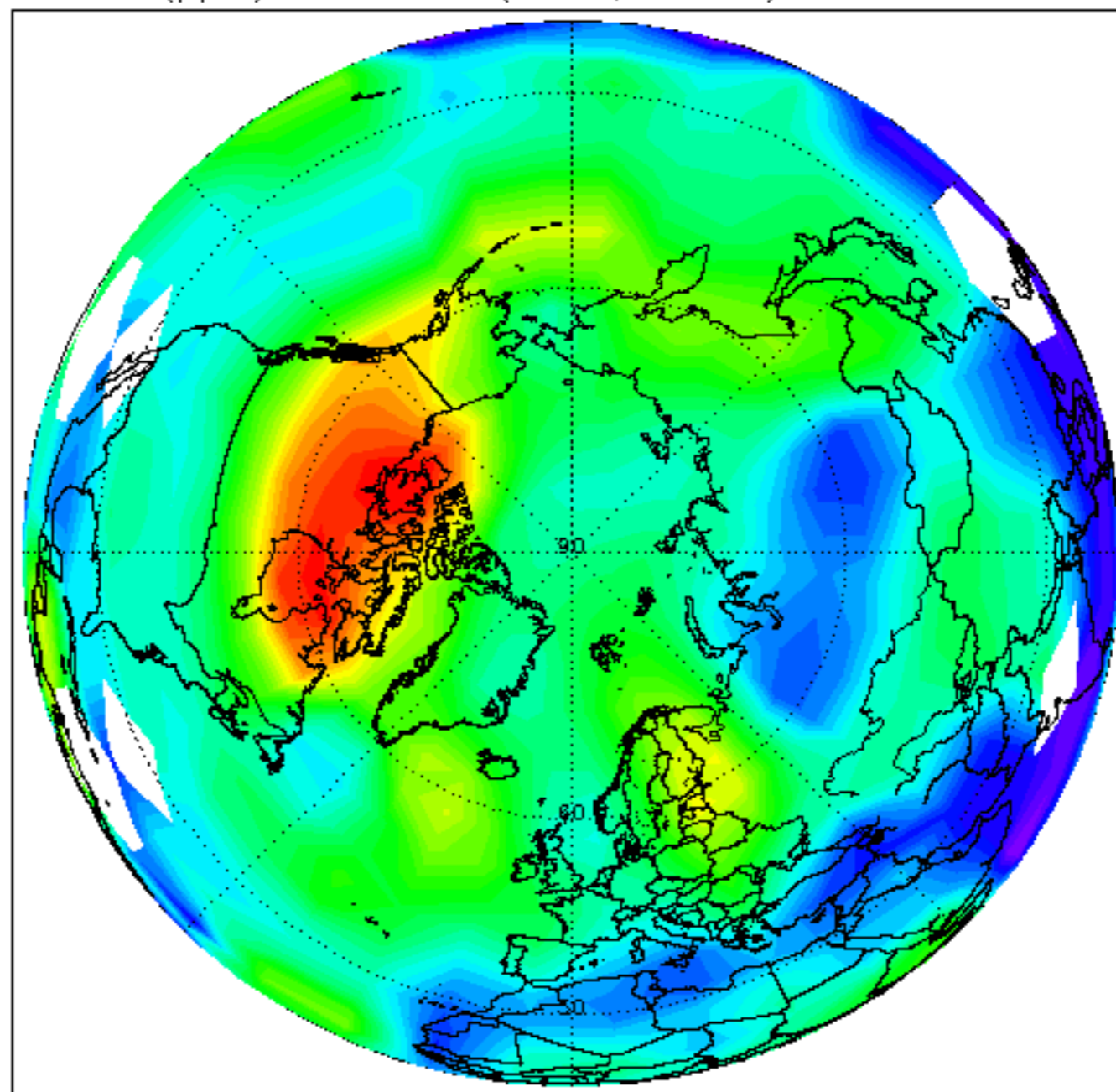
N₂O (ppb) at: 410 K (16km, 100hPa). Daily mean: 24-JAN-2012



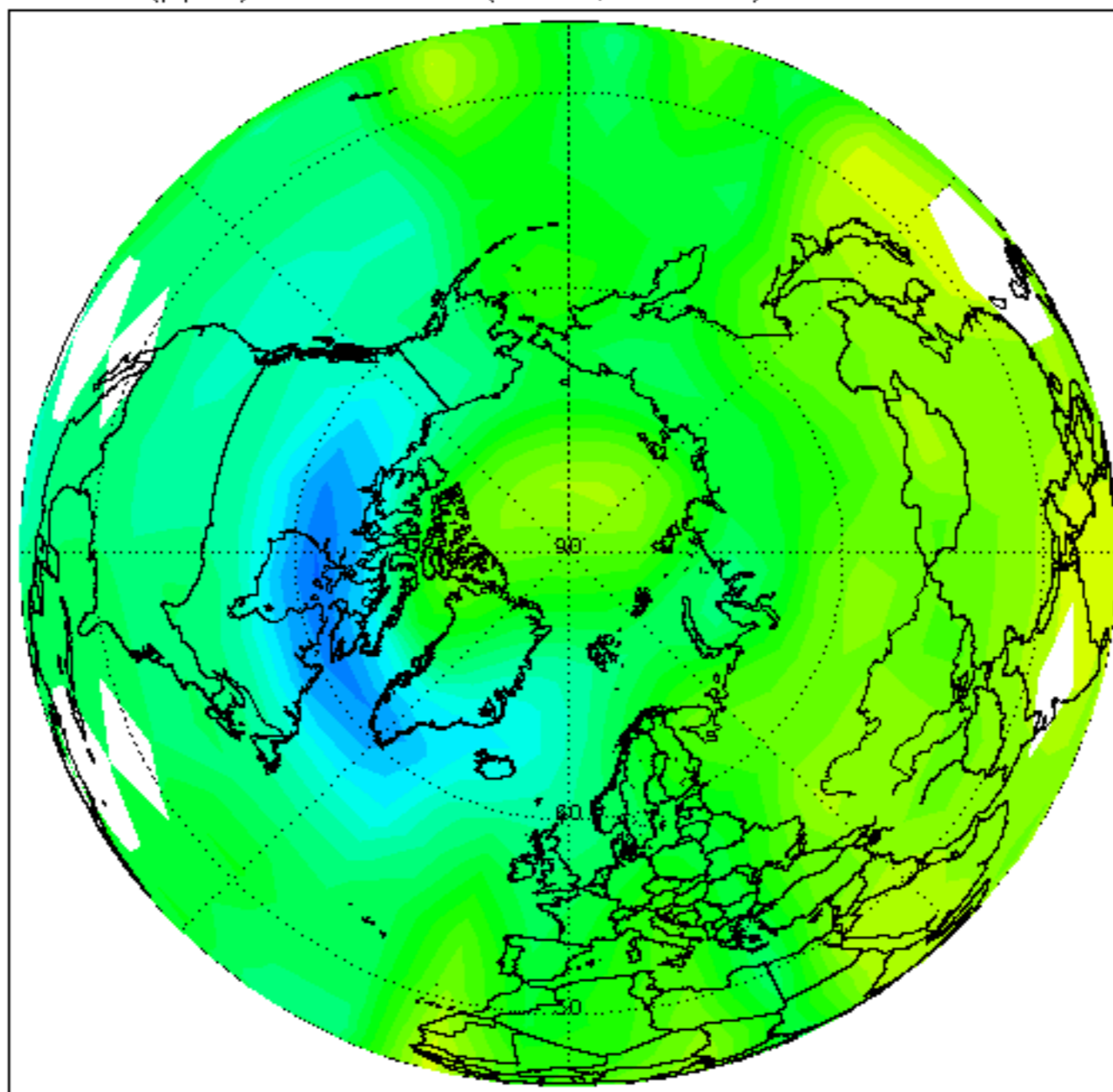
Temp (K) at 2700 K (60km, 0.2hPa). 24-JAN-2012



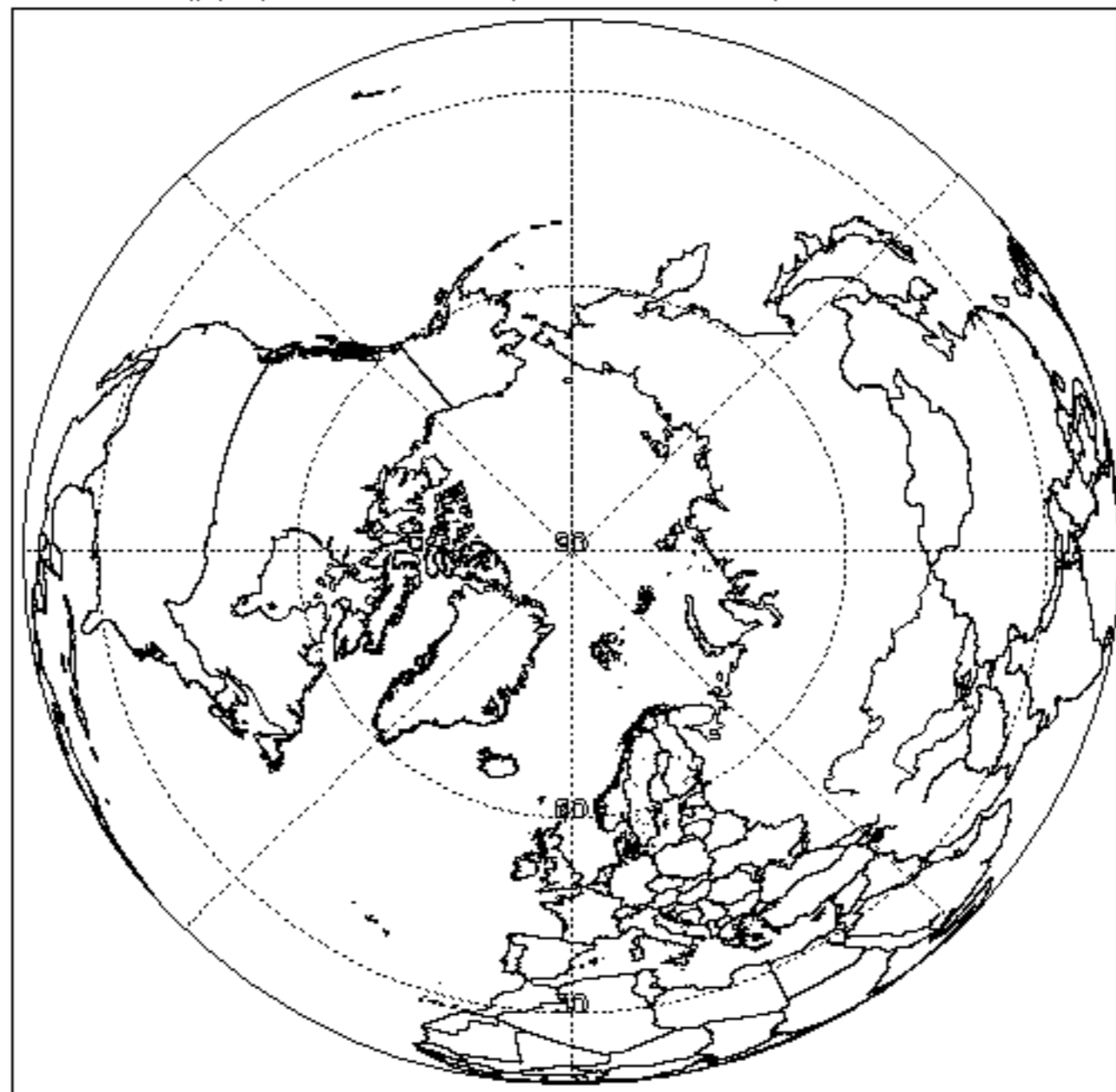
H₂O (ppm) at 2700 K (60km, 0.2hPa). 24-JAN-2012



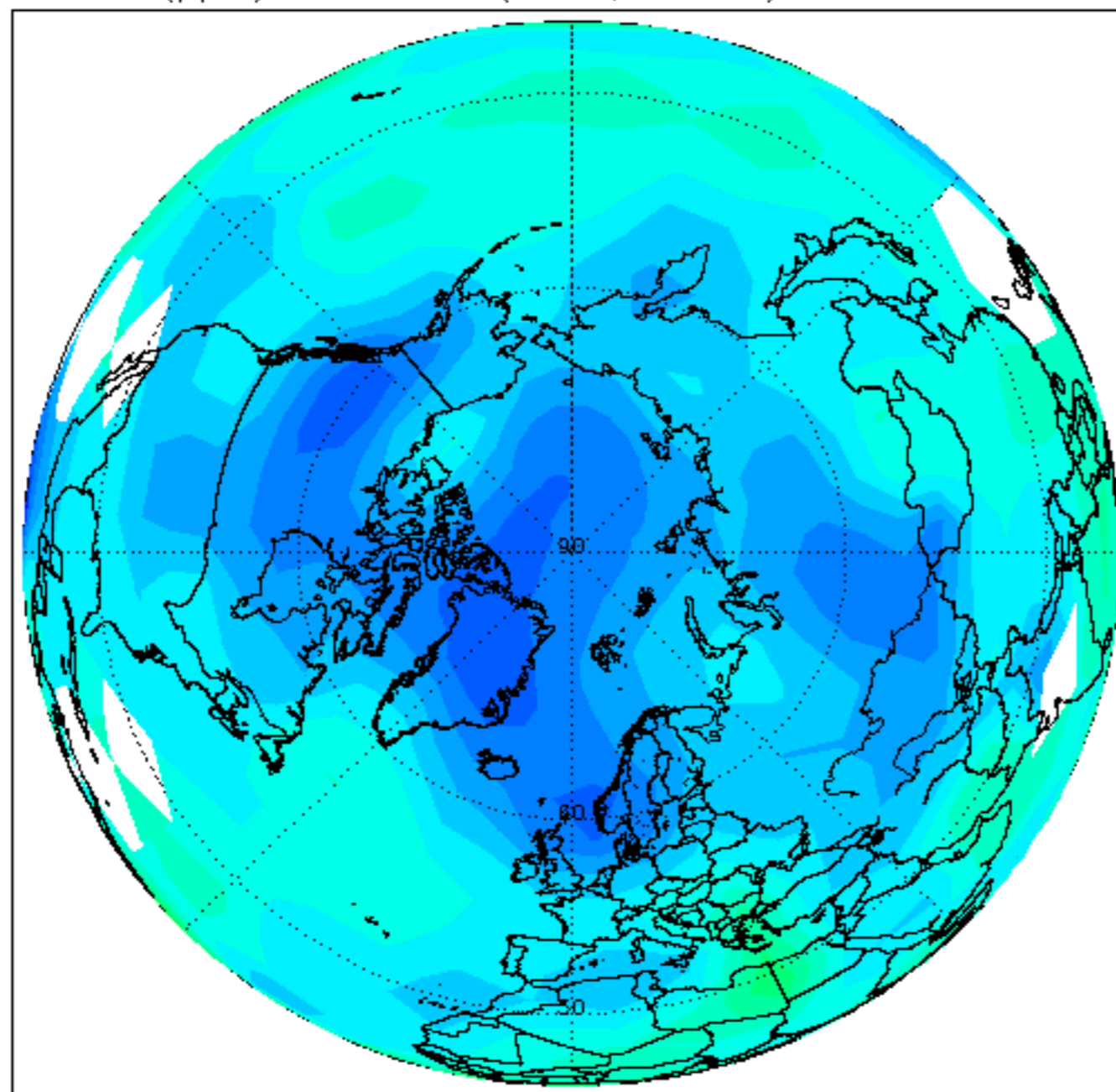
O3 (ppm) at 2700 K (60km, 0.2hPa). 24-JAN-2012



HNO₃ (ppb) at 2700 K (60km, 0.2hPa). 24-JAN-2012



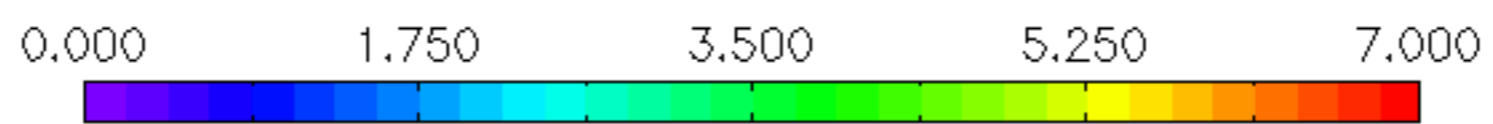
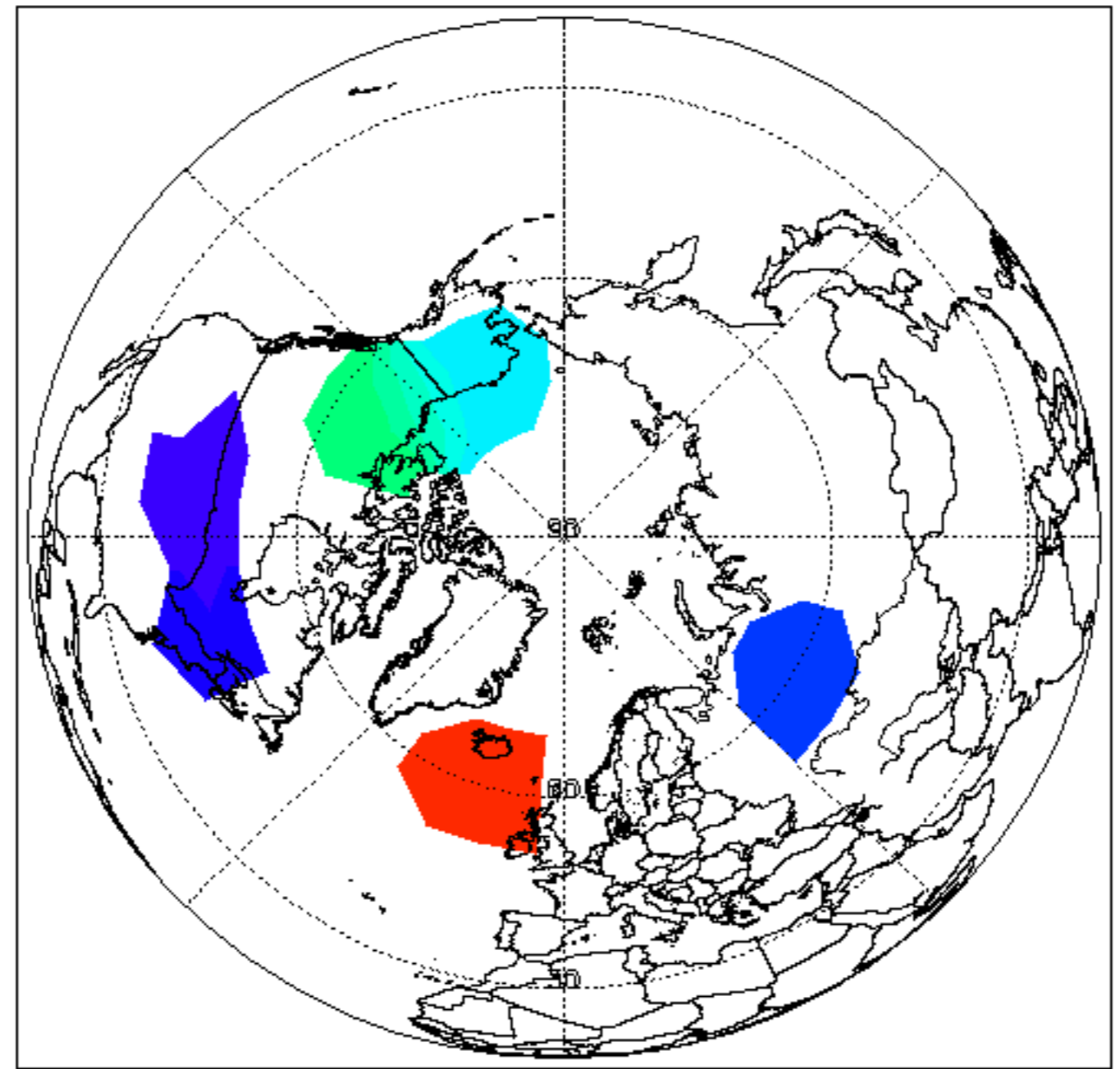
CH₄ (ppm) at 2700 K (60km, 0.2hPa). 24-JAN-2012



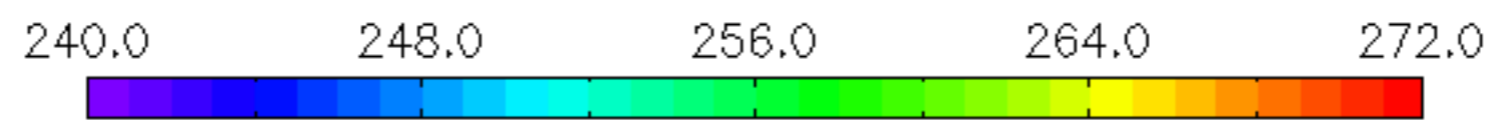
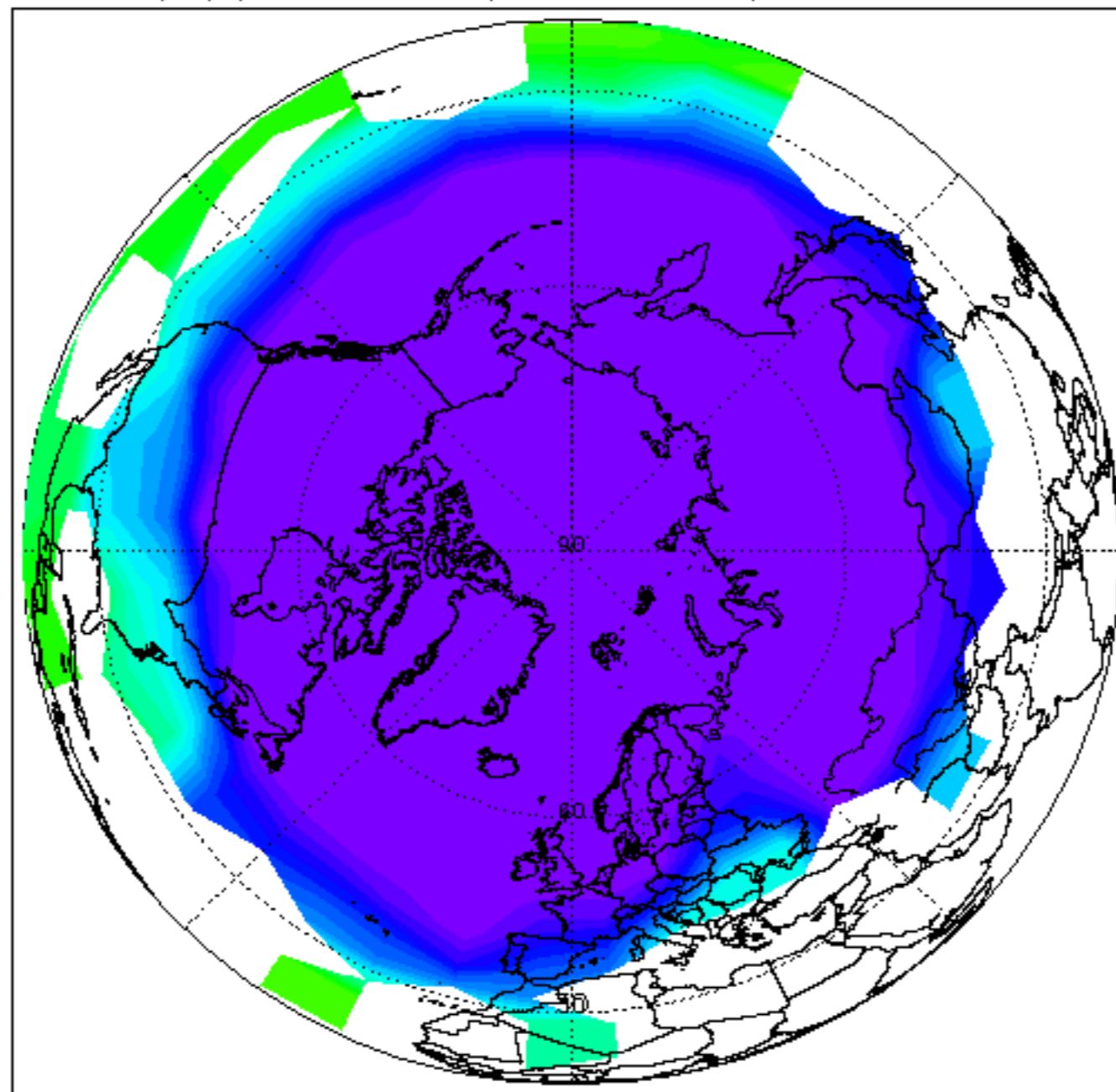
0.05000 0.1375 0.2250 0.3125 0.4000



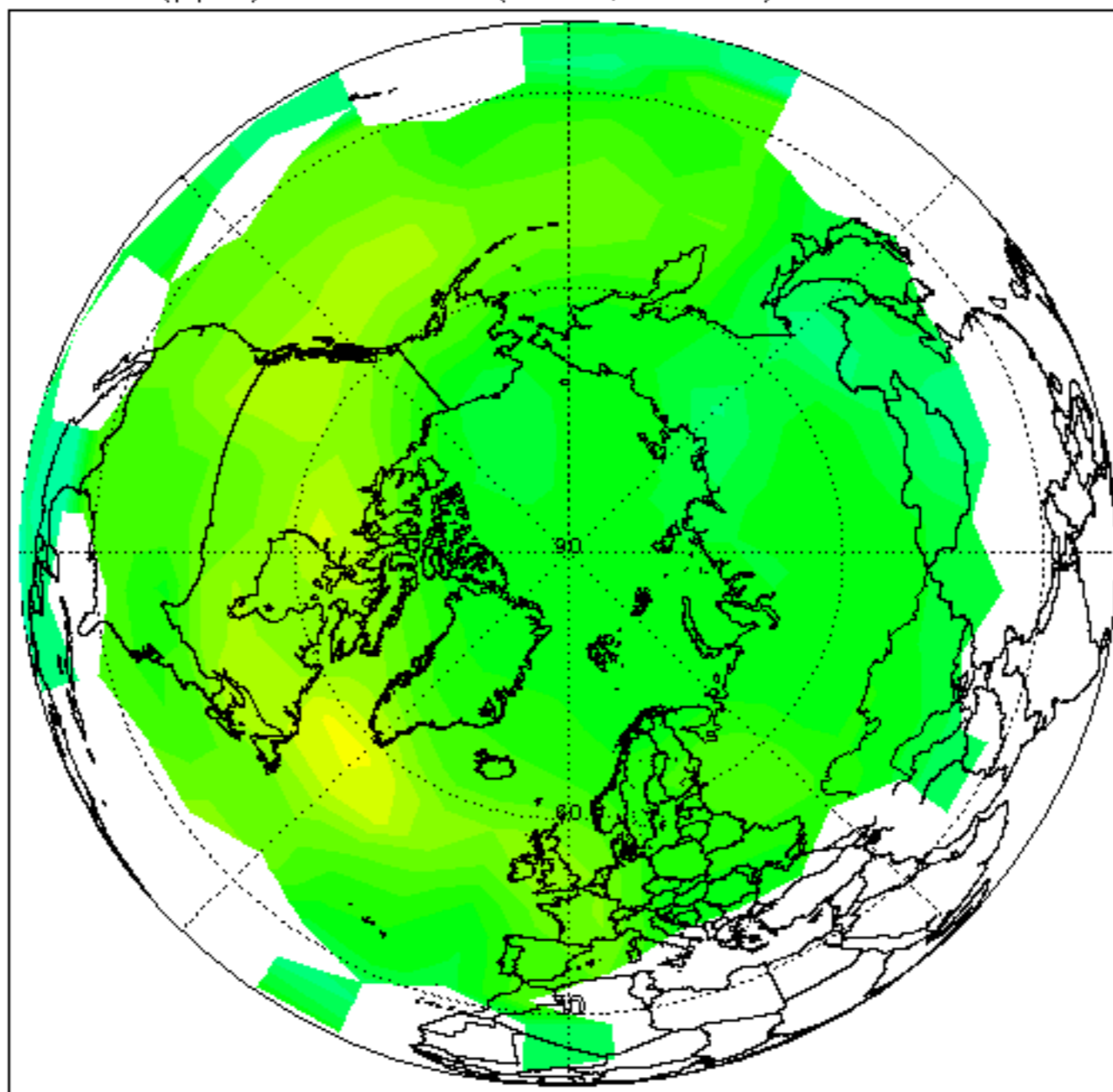
N₂O (ppb) at 2700 K (60km, 0.2hPa). 24-JAN-2012



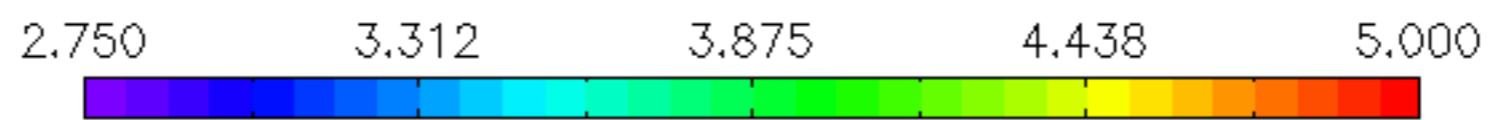
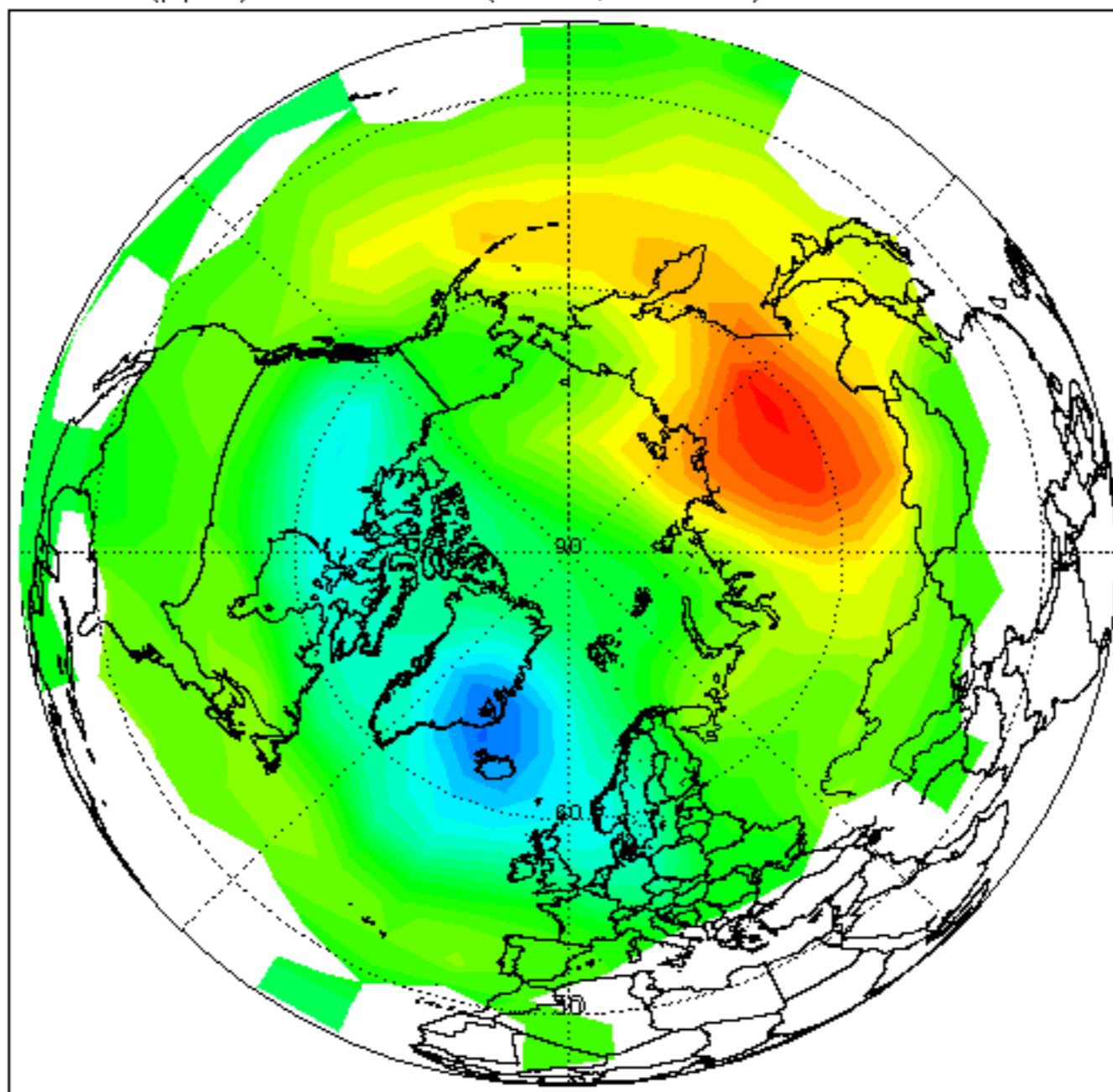
Temp (K) at 1700 K (45km, 1.5hPa). 24-JAN-2012



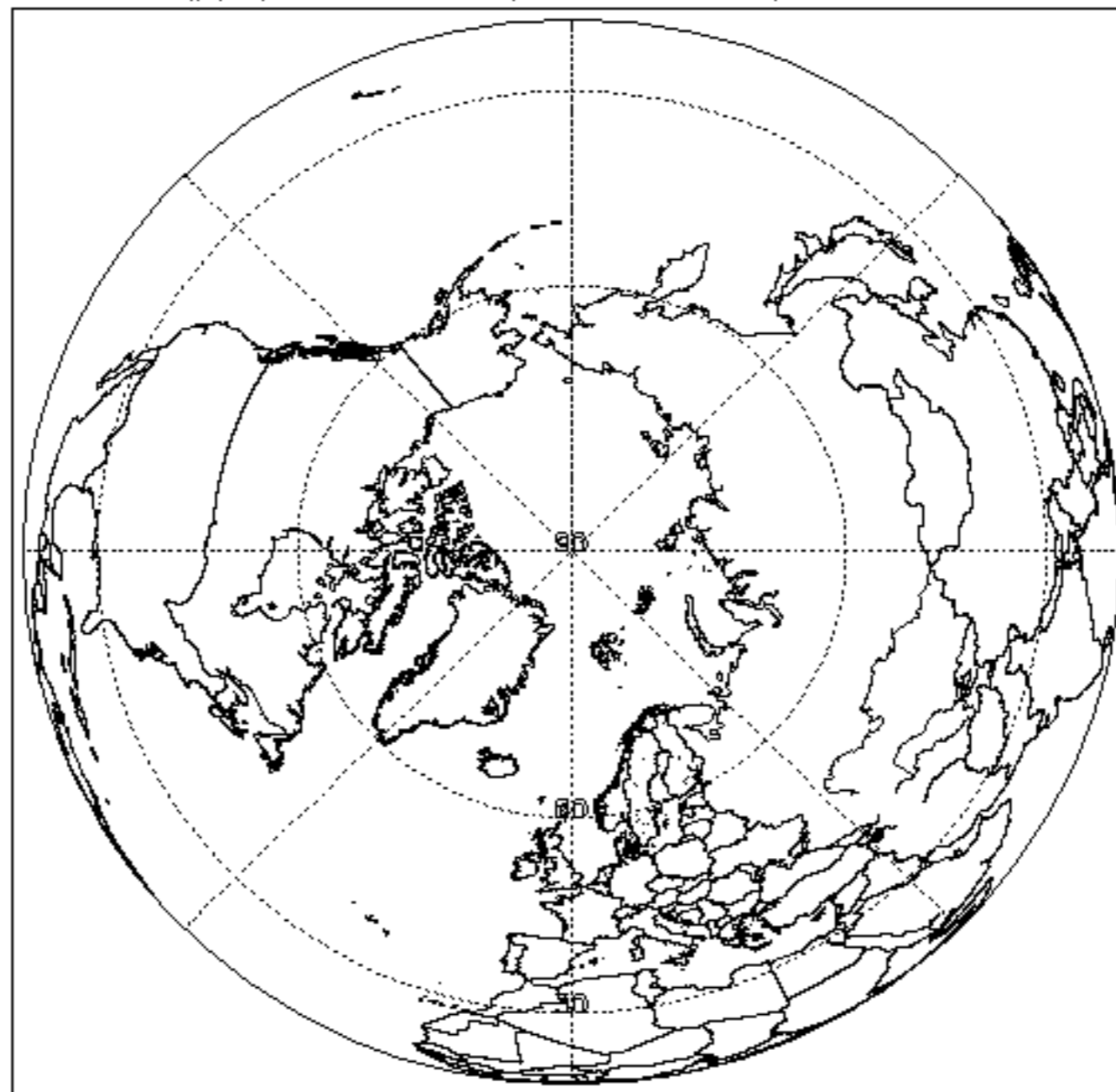
H₂O (ppm) at 1700 K (45km, 1.5hPa). 24-JAN-2012



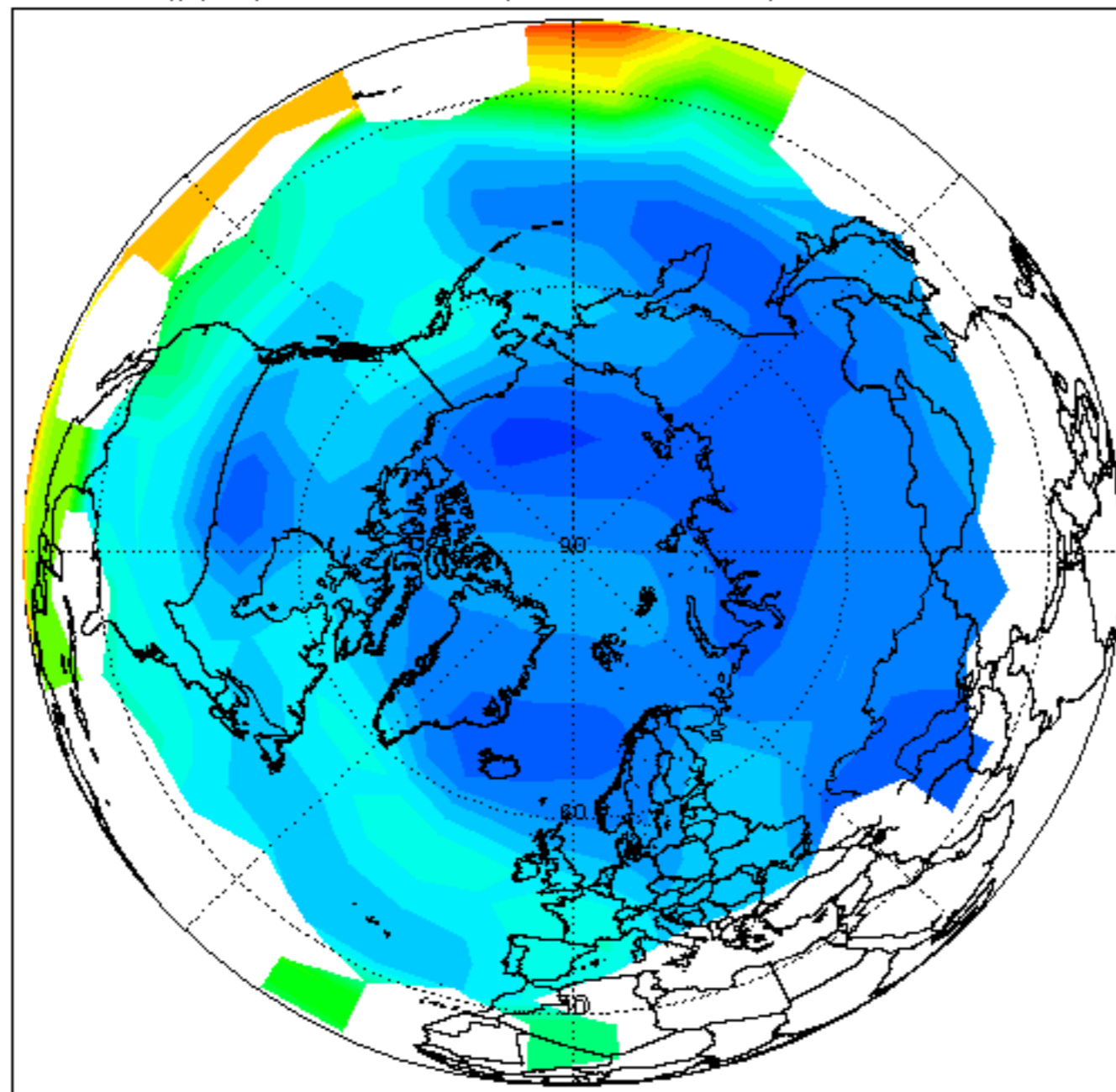
O₃ (ppm) at 1700 K (45km, 1.5hPa). 24-JAN-2012



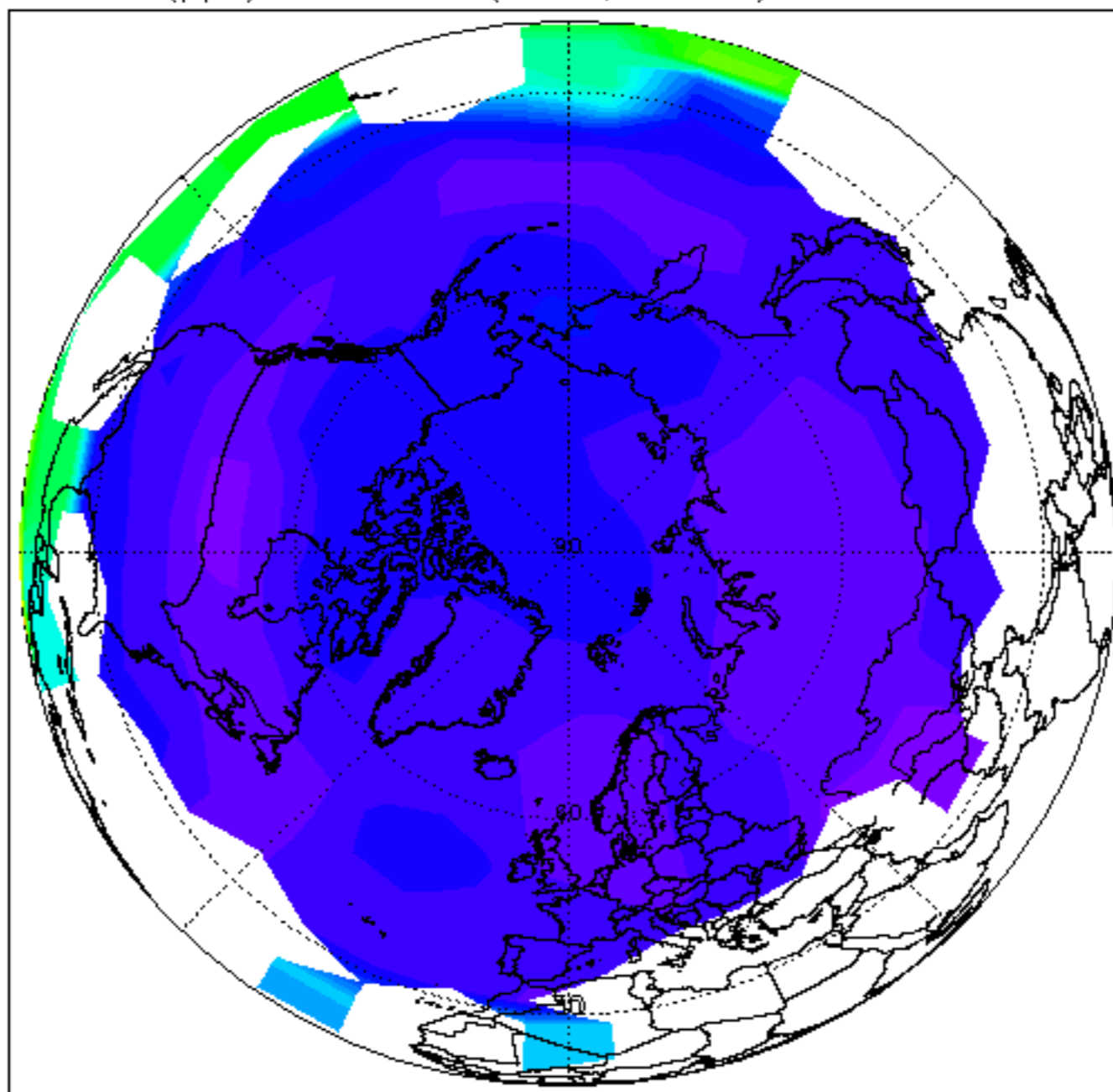
HNO₃ (ppb) at 1700 K (45km, 1.5hPa). 24-JAN-2012



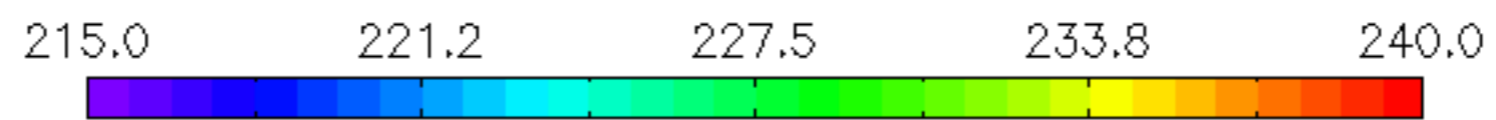
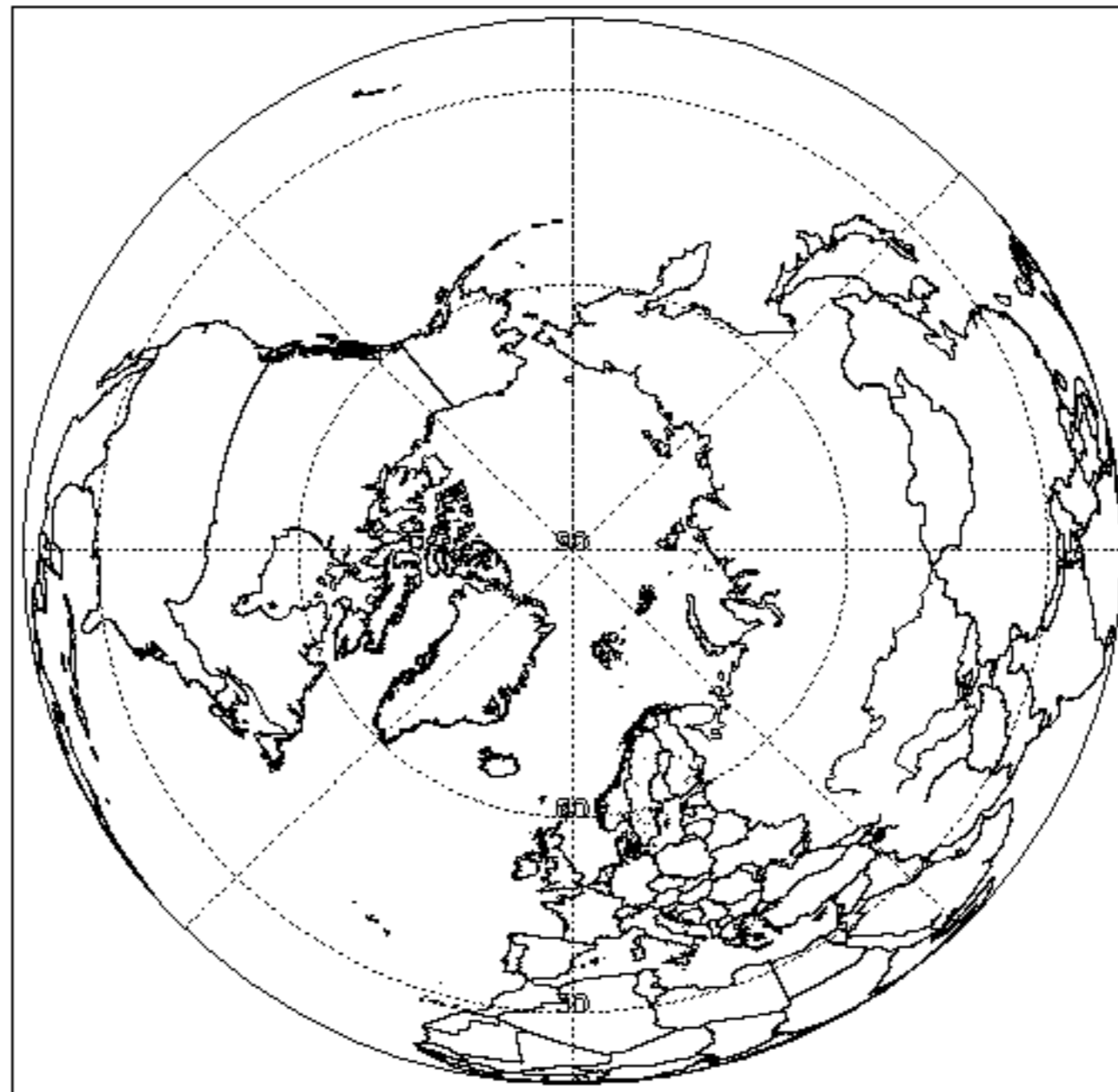
CH₄ (ppm) at 1700 K (45km, 1.5hPa). 24-JAN-2012



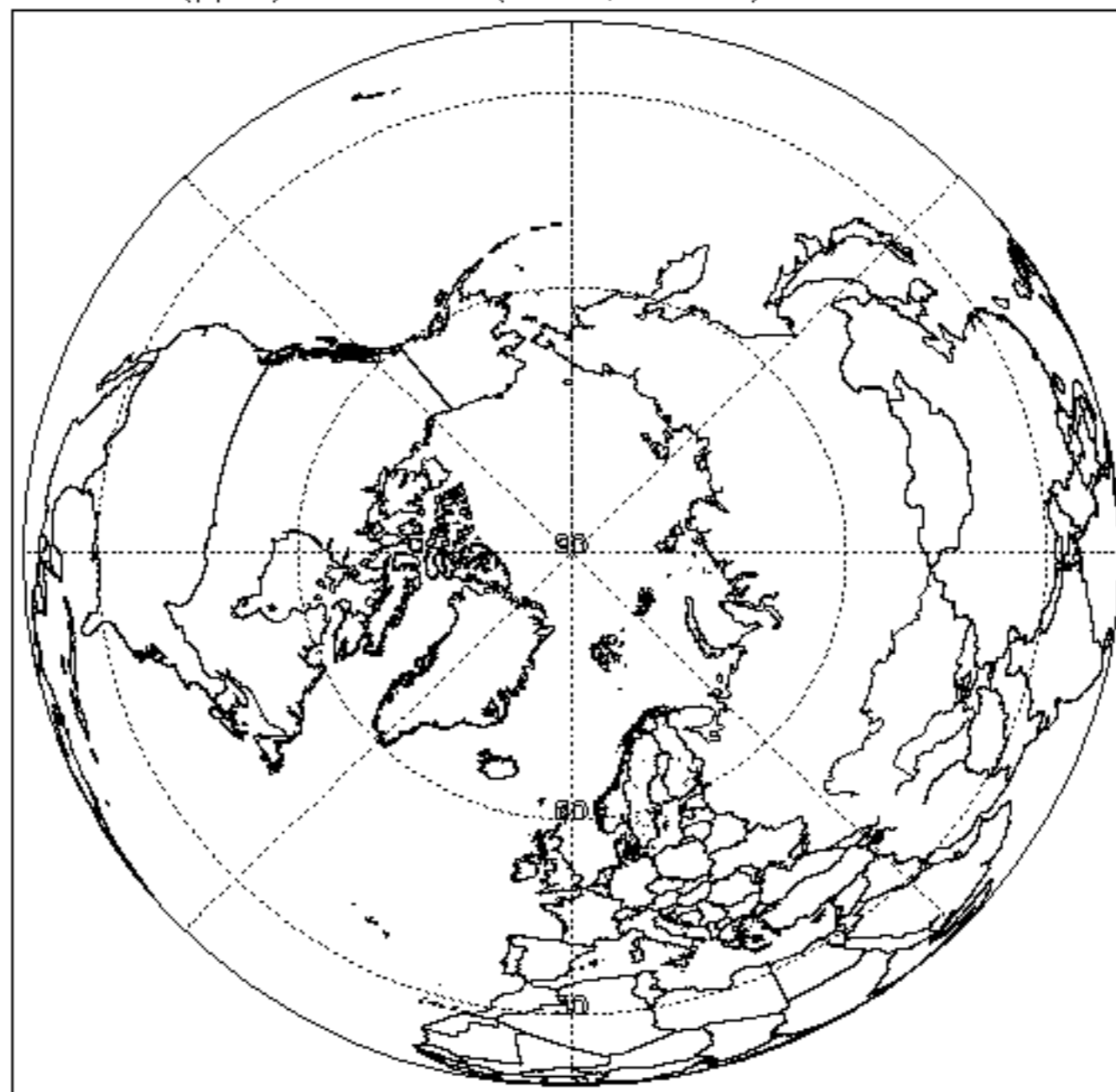
N₂O (ppb) at 1700 K (45km, 1.5hPa). 24-JAN-2012



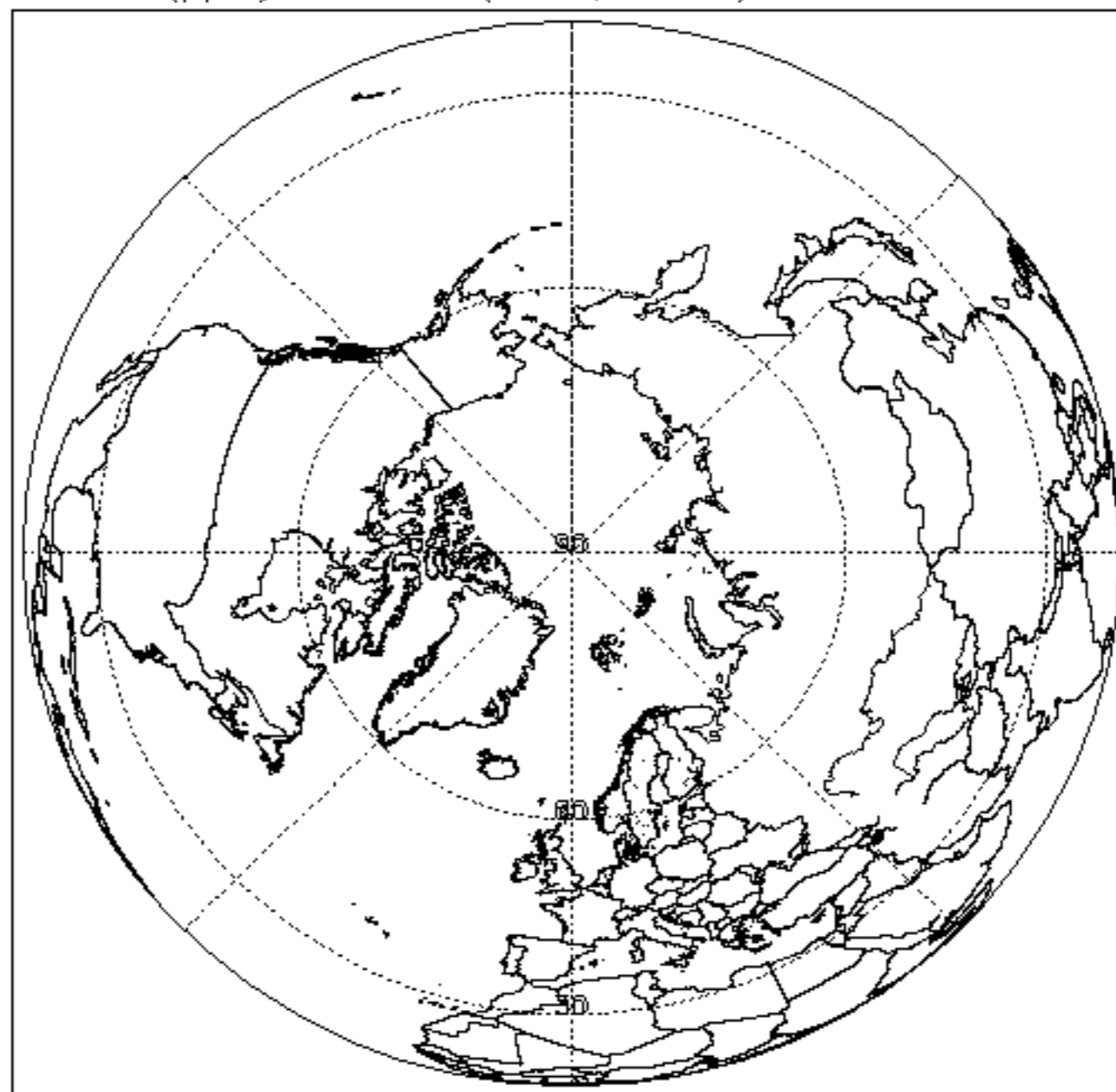
Temp (K) at 850 K (32km, 10hPa). 24-JAN-2012



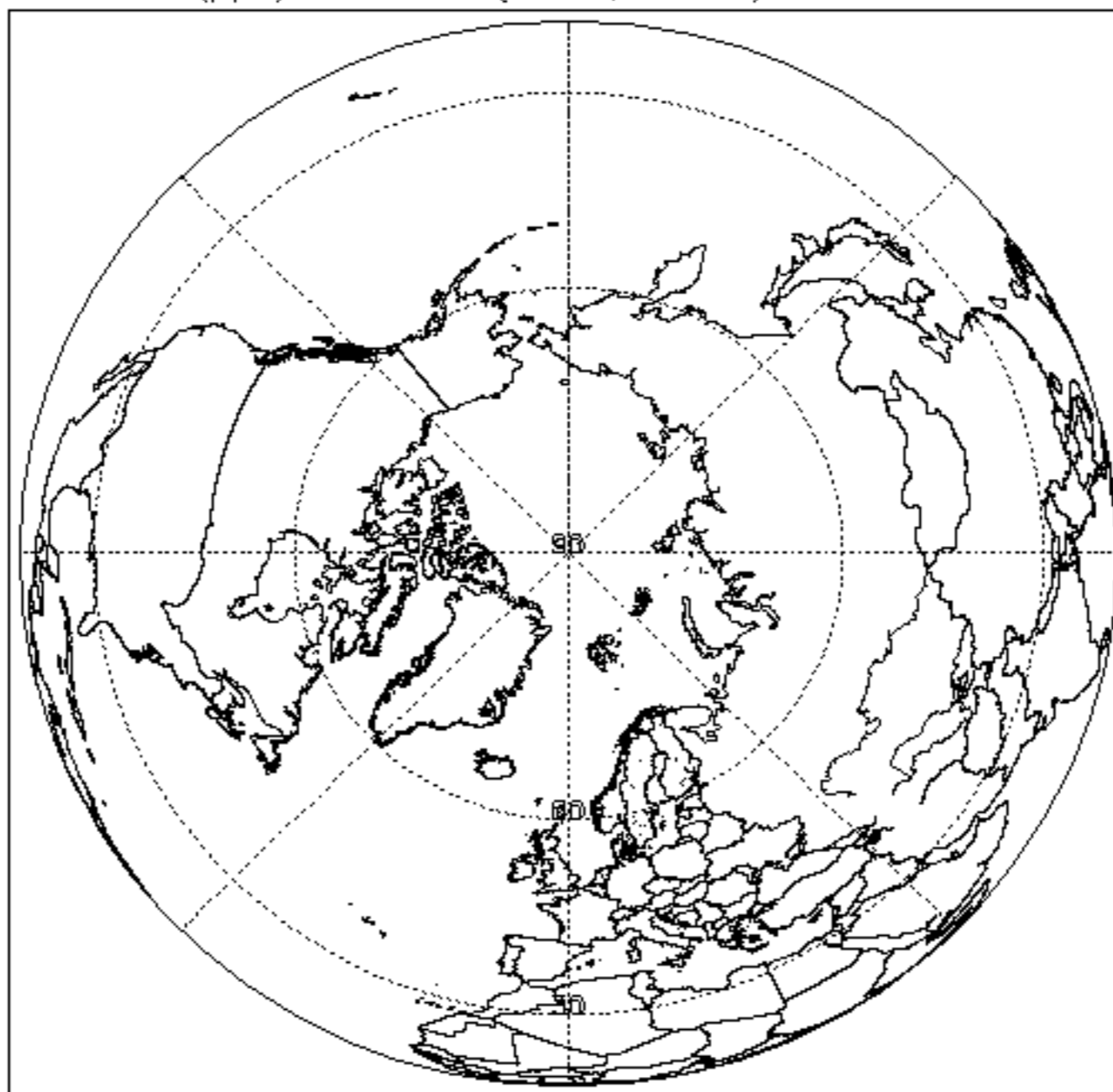
H₂O (ppm) at 850 K (32km, 10hPa). 24-JAN-2012



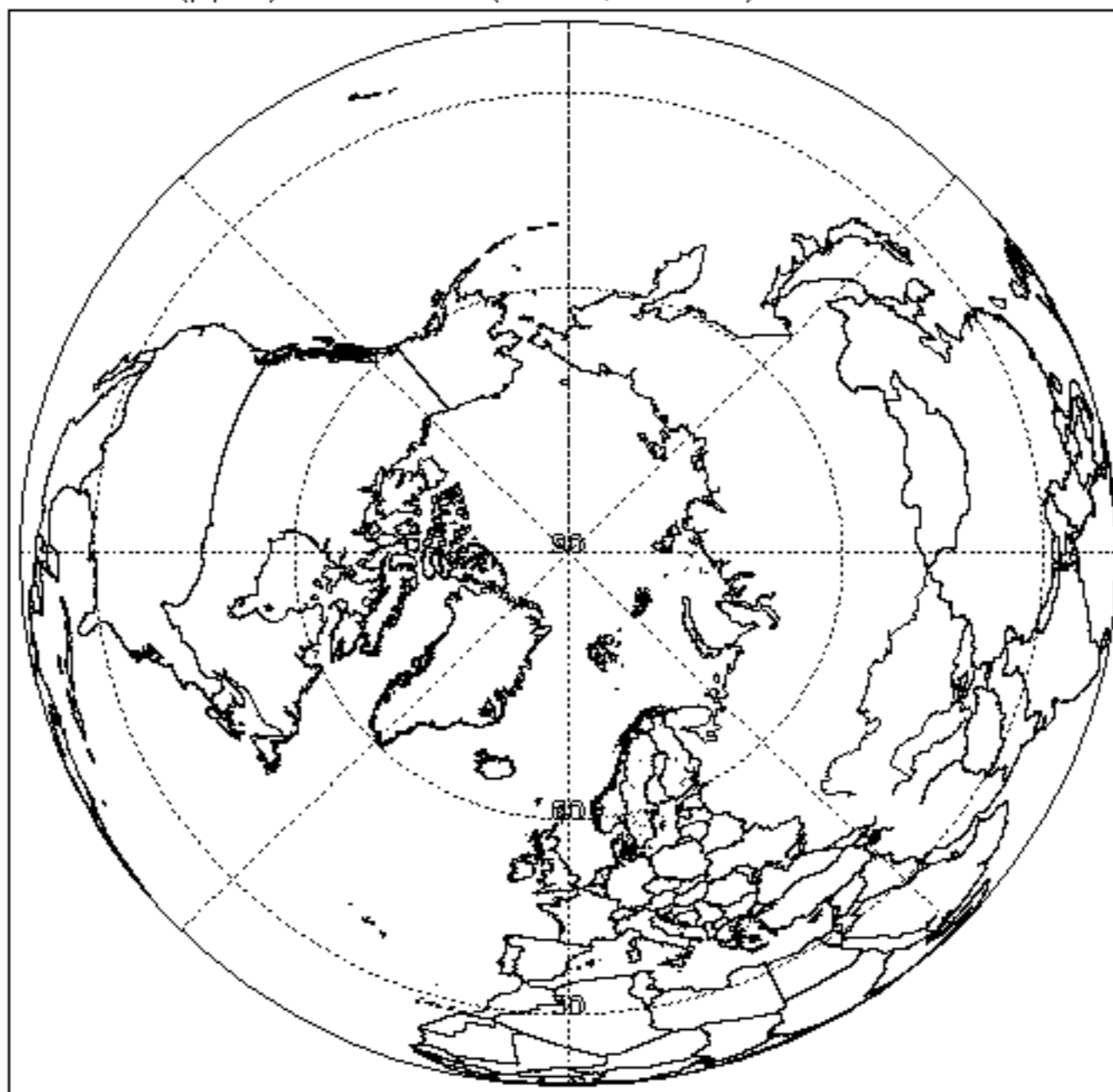
O₃ (ppm) at 850 K (32km, 10hPa). 24-JAN-2012



HN03 (ppb) at 850 K (32km, 10hPa). 24-JAN-2012



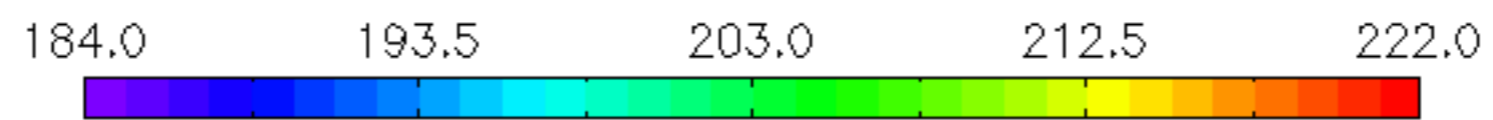
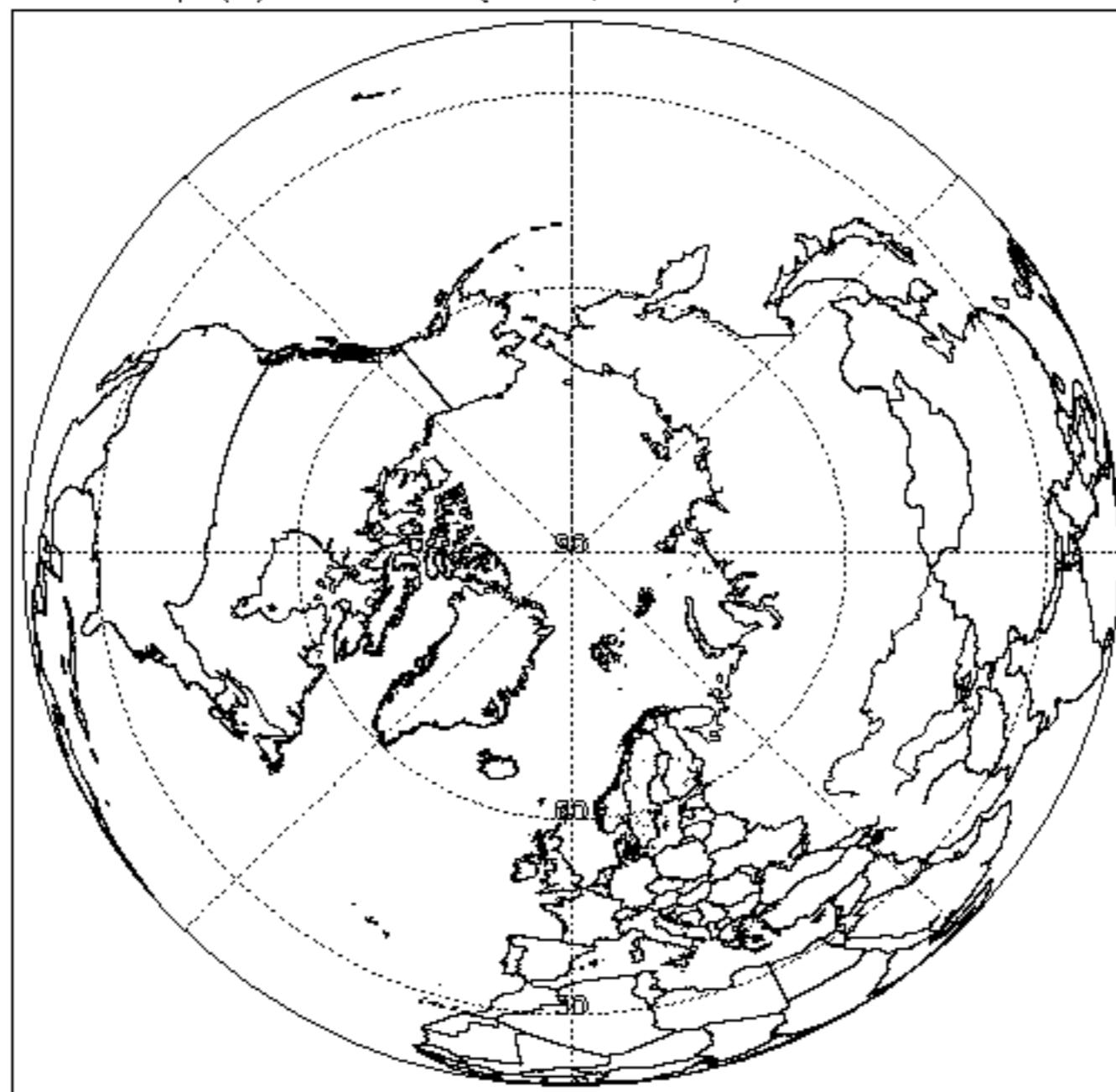
CH₄ (ppm) at 850 K (32km, 10hPa). 24-JAN-2012



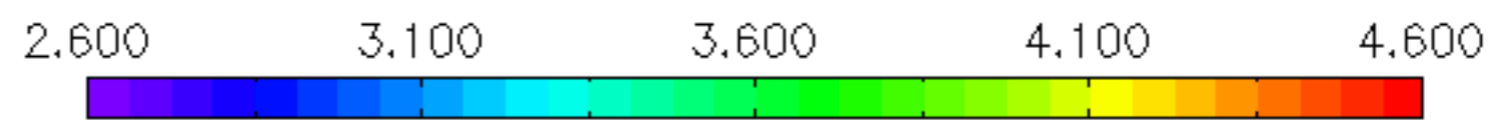
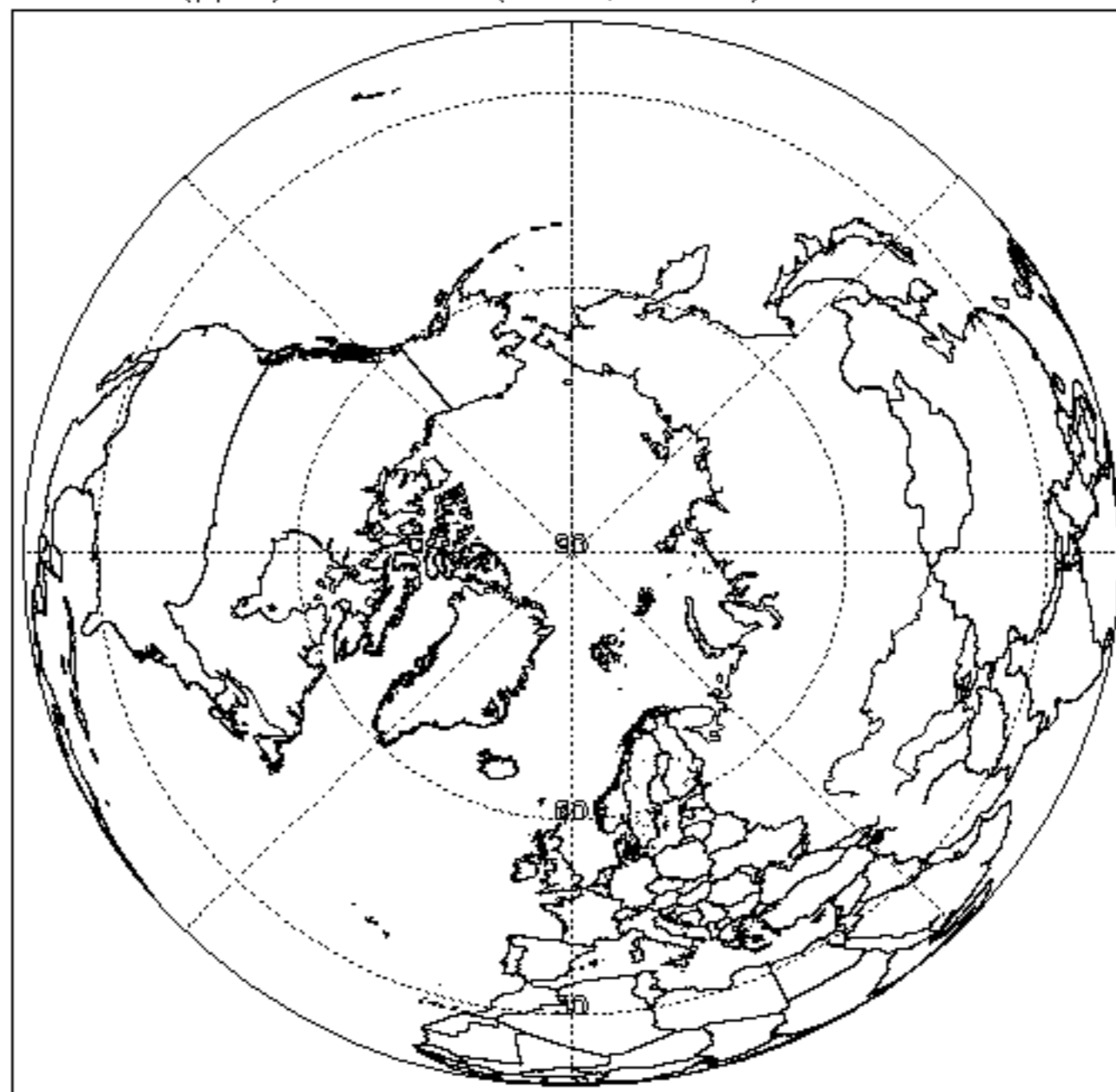
N₂O (ppb) at 850 K (32km, 10hPa). 24-JAN-2012



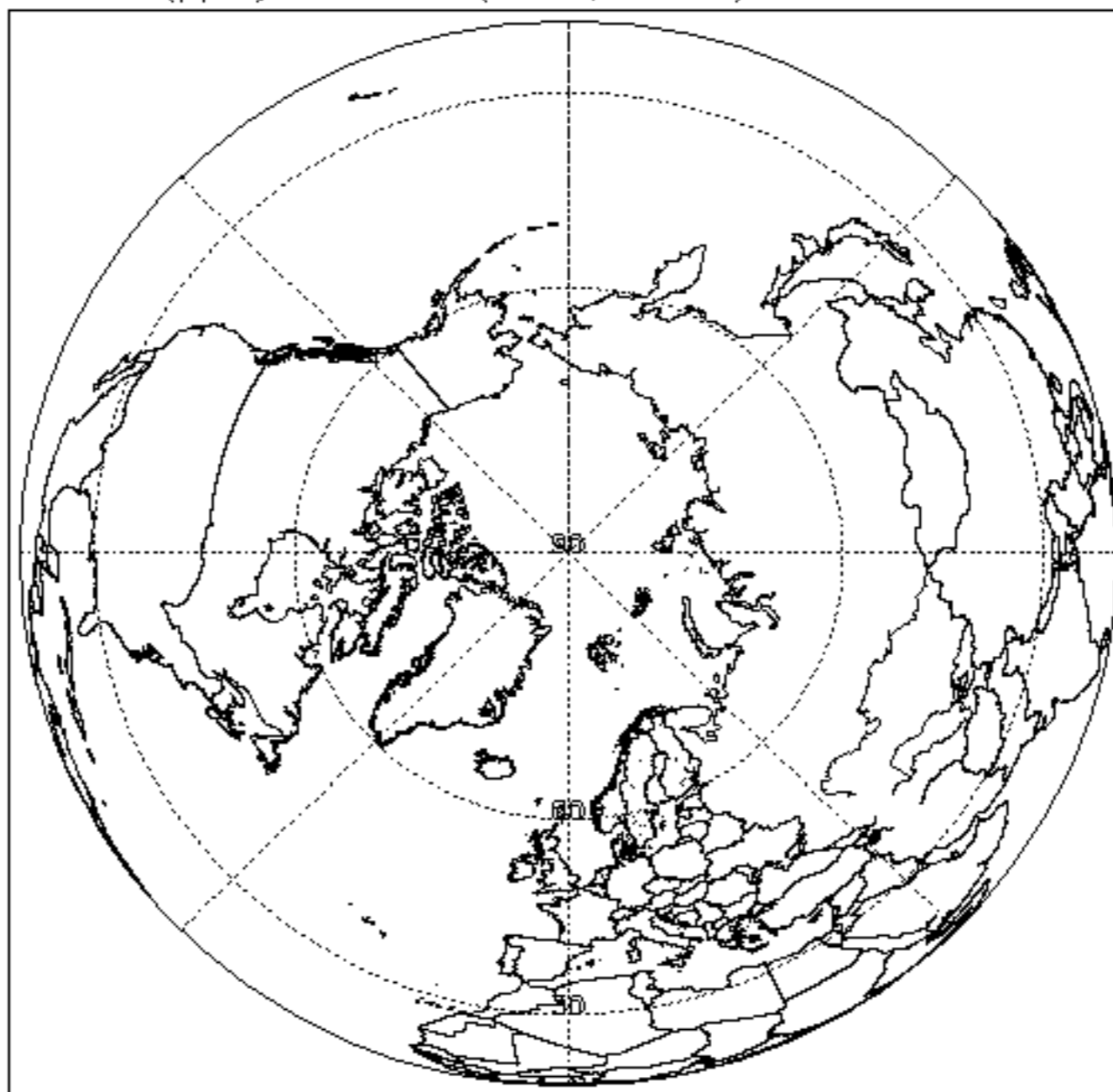
Temp (K) at 490 K (19km, 55hPa). 24-JAN-2012



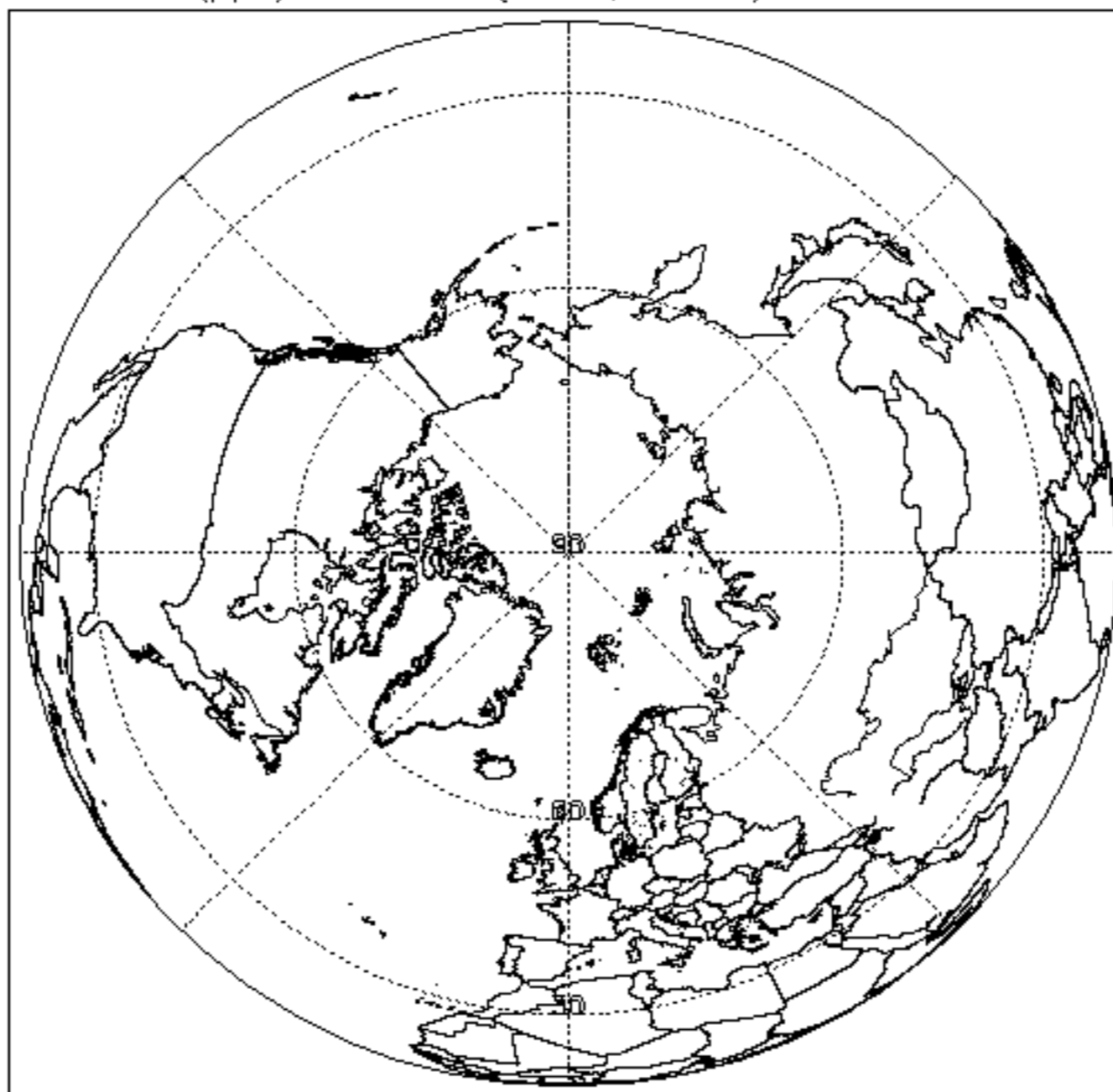
H₂O (ppm) at 490 K (19km, 55hPa). 24-JAN-2012



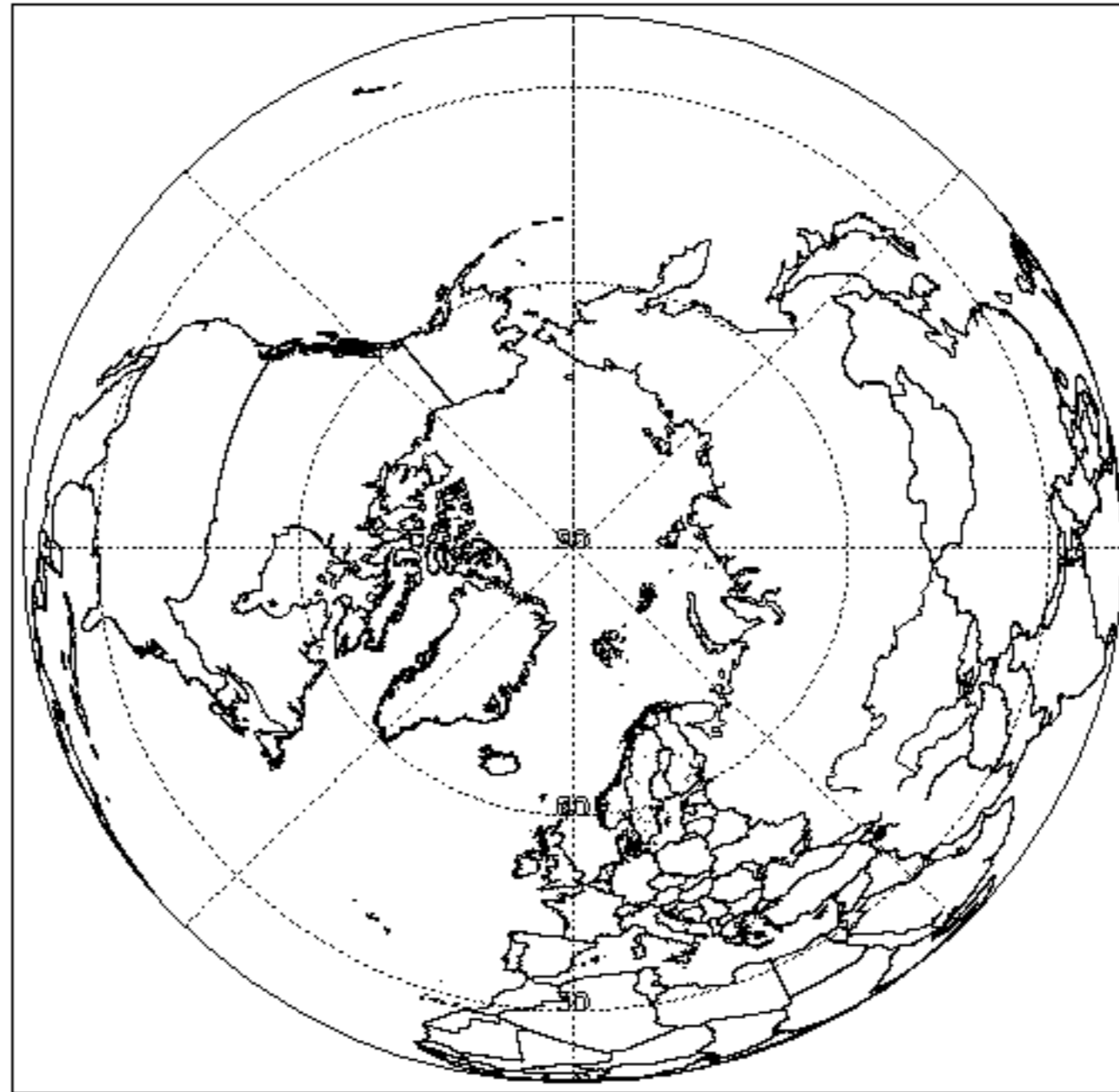
O₃ (ppm) at 490 K (19km, 55hPa). 24-JAN-2012



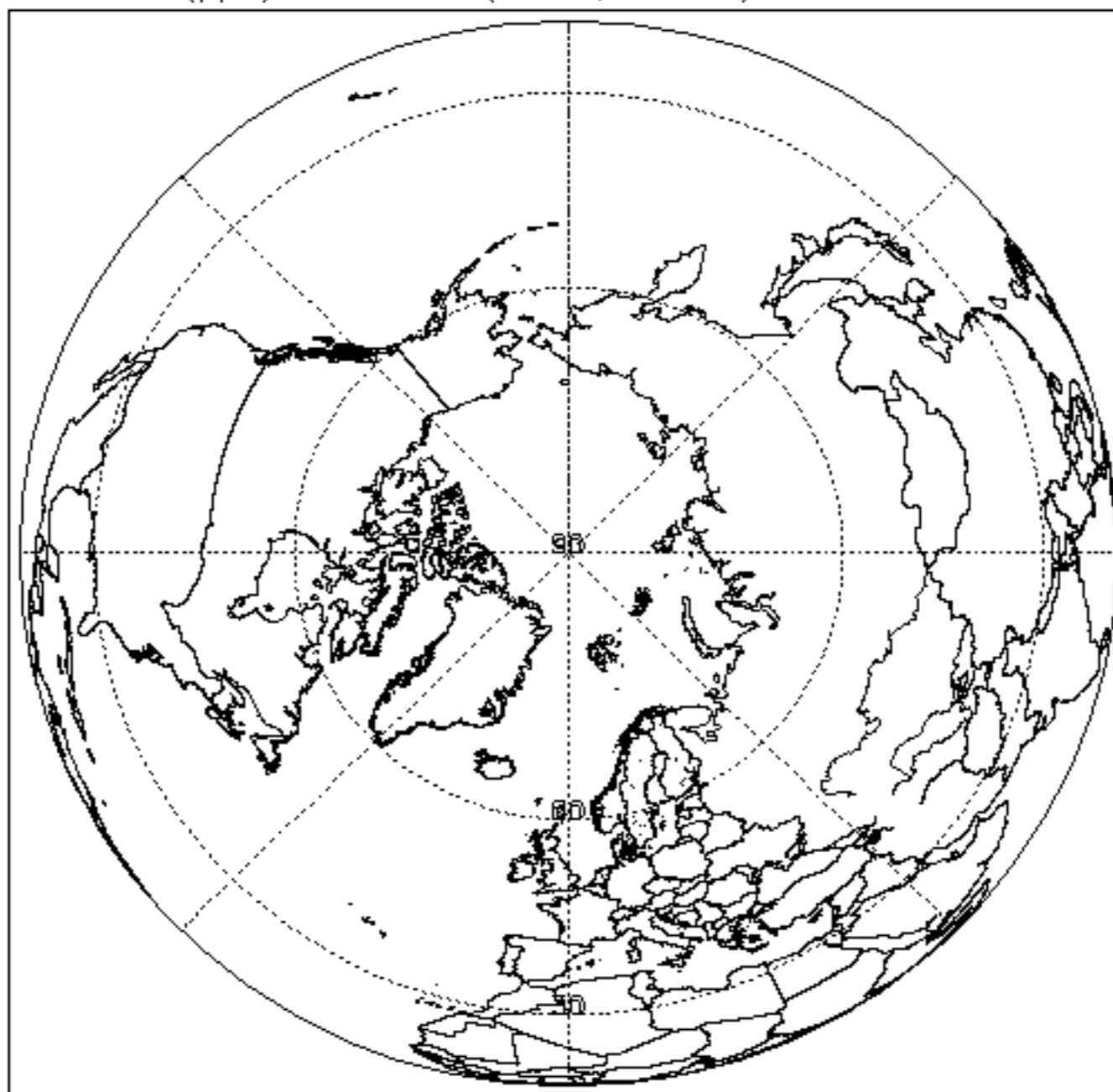
HN03 (ppb) at 490 K (19km, 55hPa). 24-JAN-2012



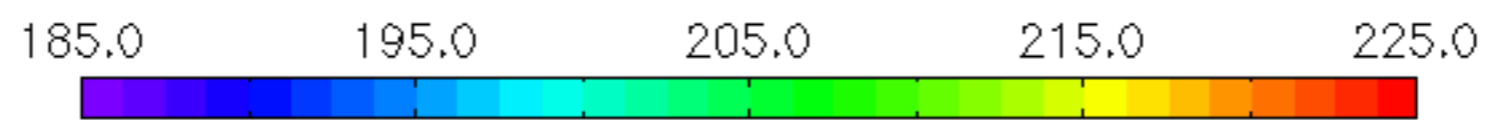
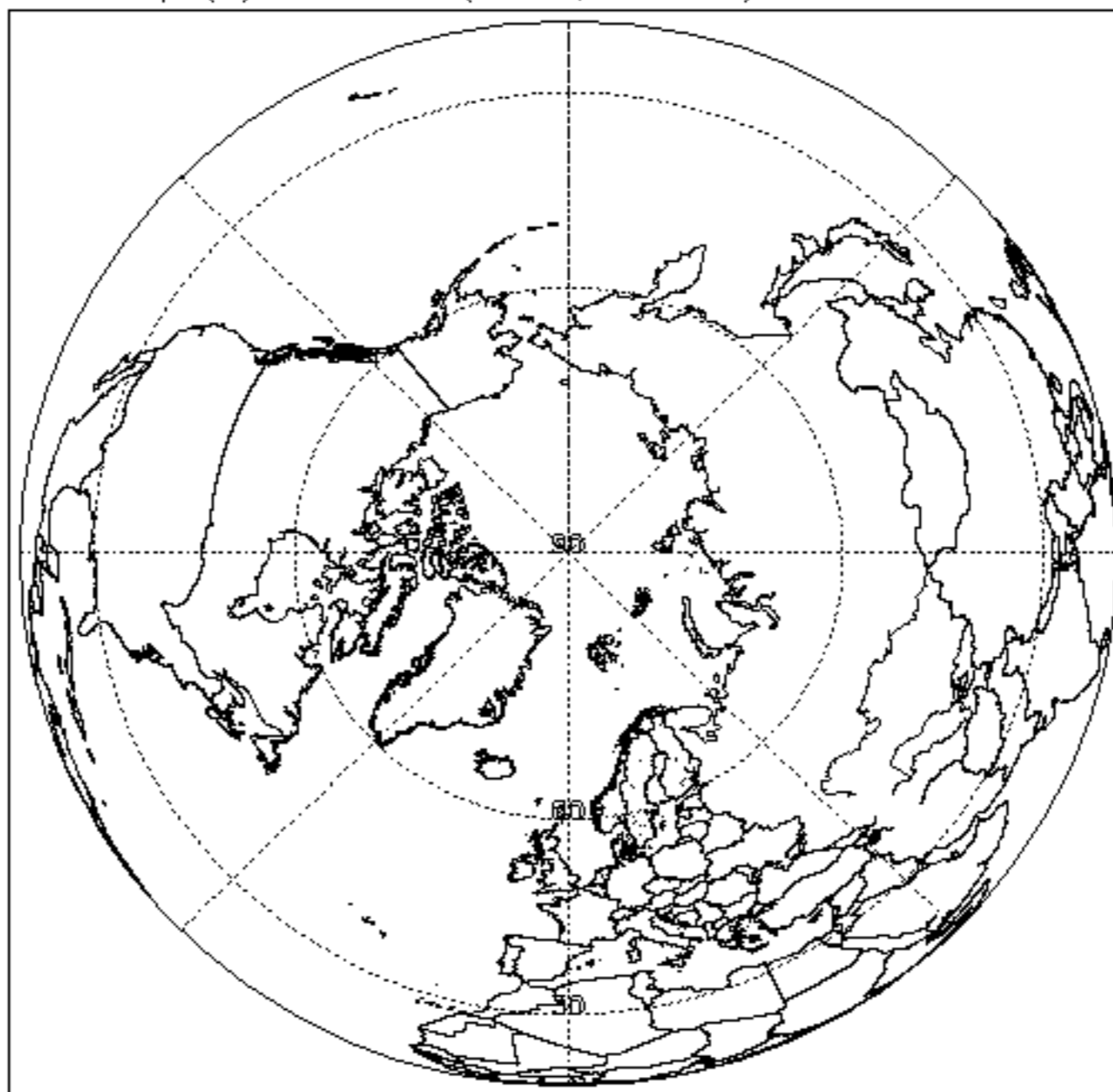
CH₄ (ppm) at 490 K (19km, 55hPa). 24-JAN-2012



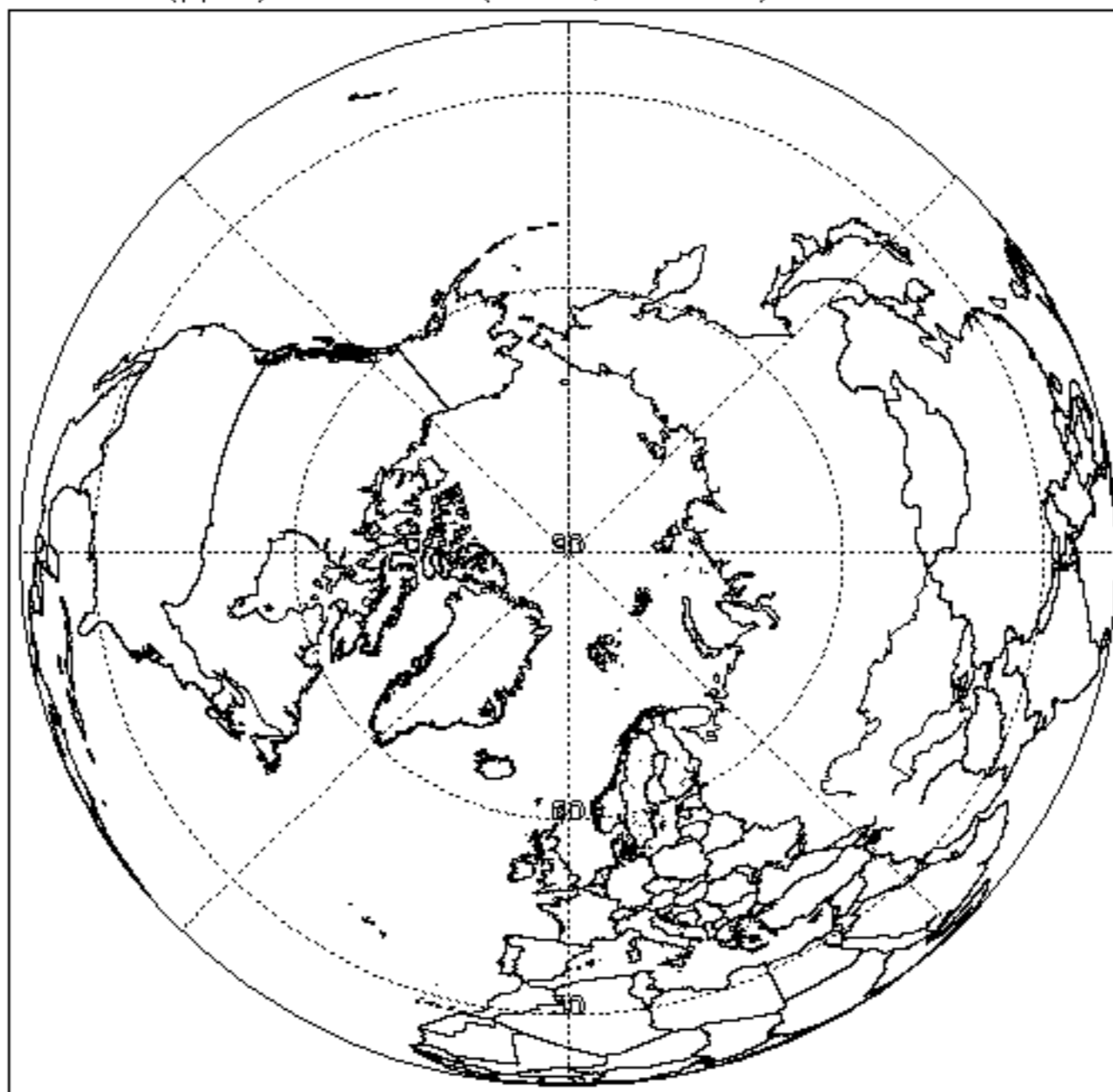
N₂O (ppb) at 490 K (19km, 55hPa). 24-JAN-2012



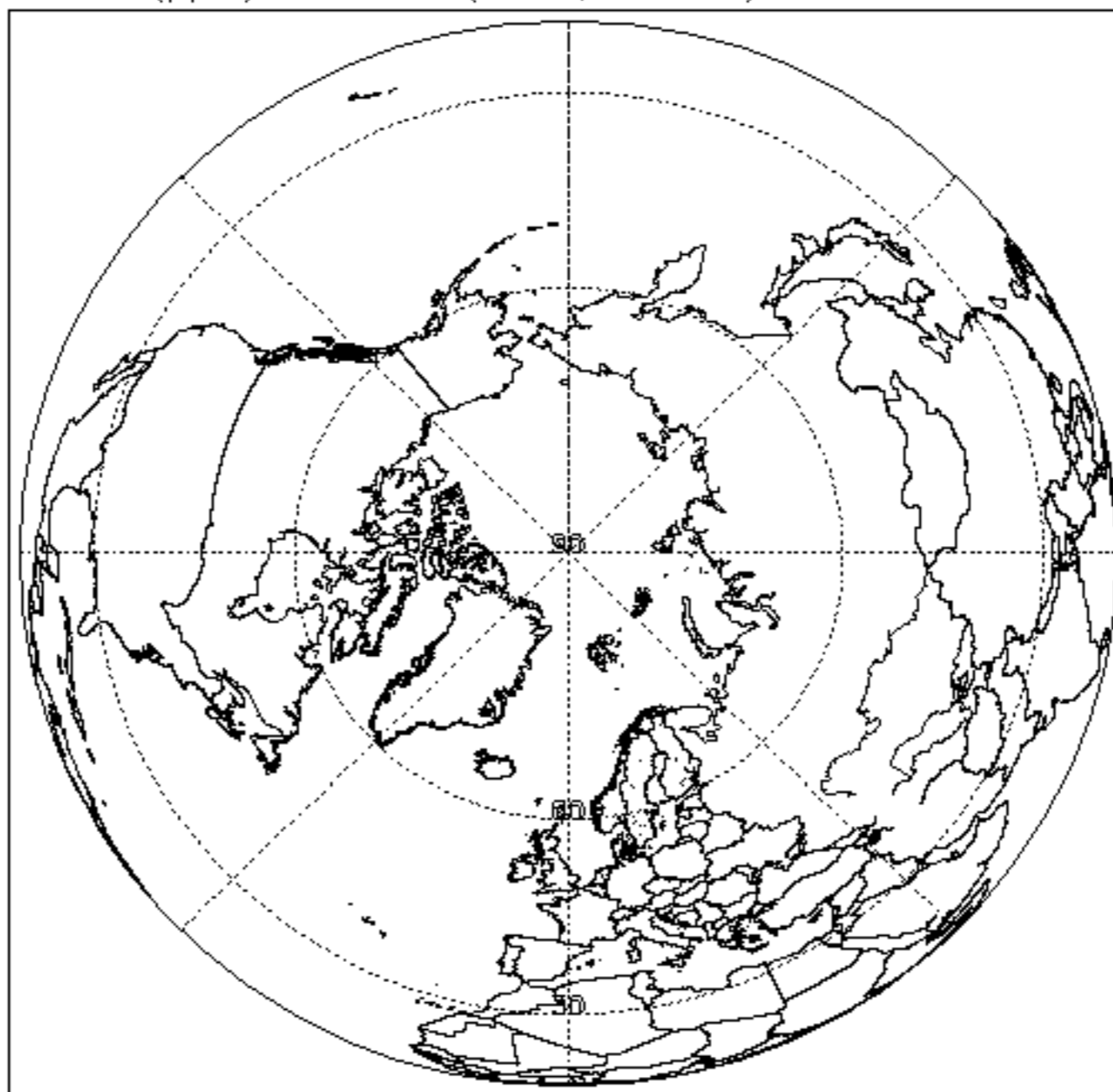
Temp (K) at 410 K (16km, 100hPa). 24-JAN-2012



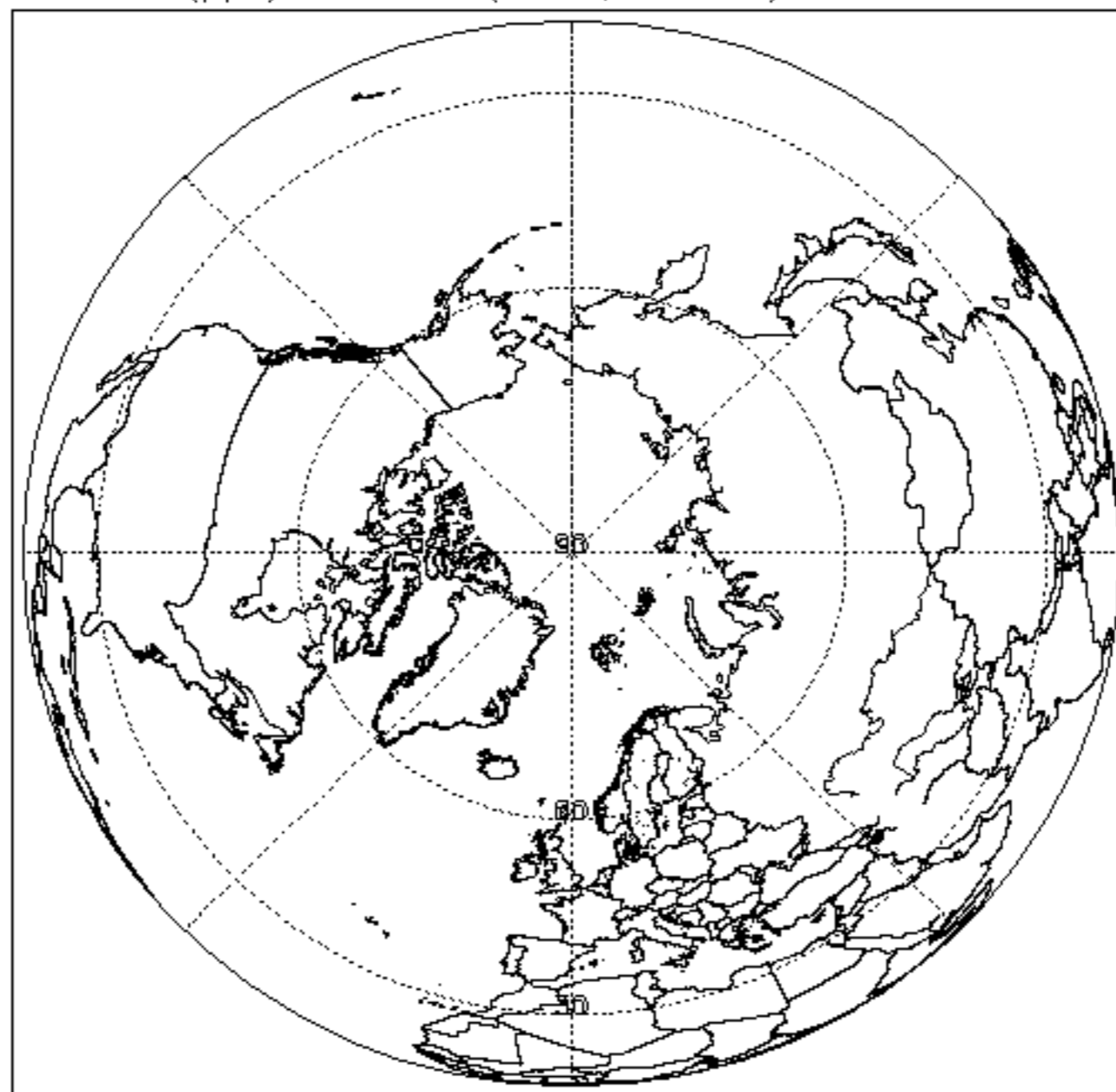
H₂O (ppm) at 410 K (16km, 100hPa). 24-JAN-2012



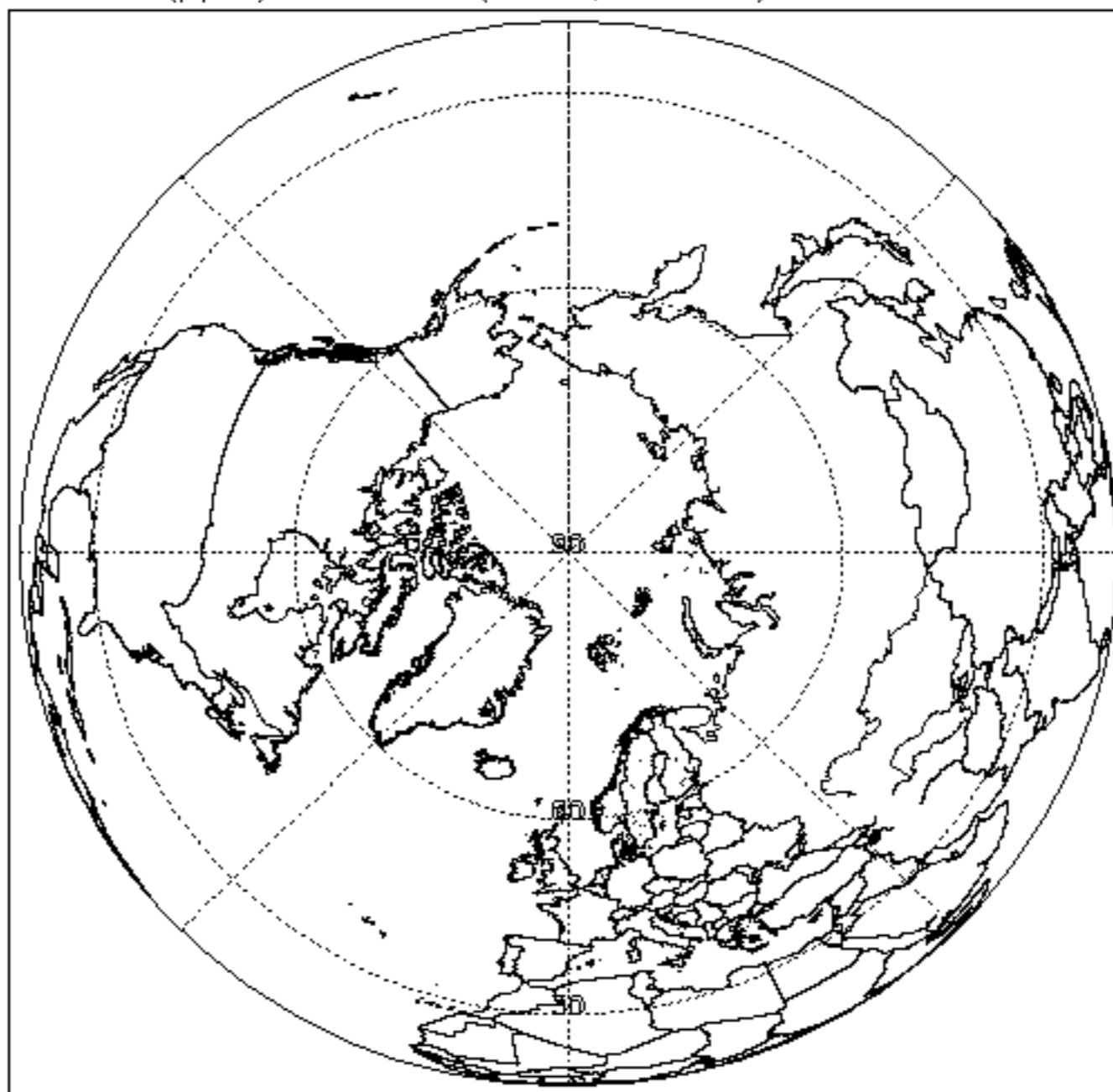
O₃ (ppm) at 410 K (16km, 100hPa). 24-JAN-2012



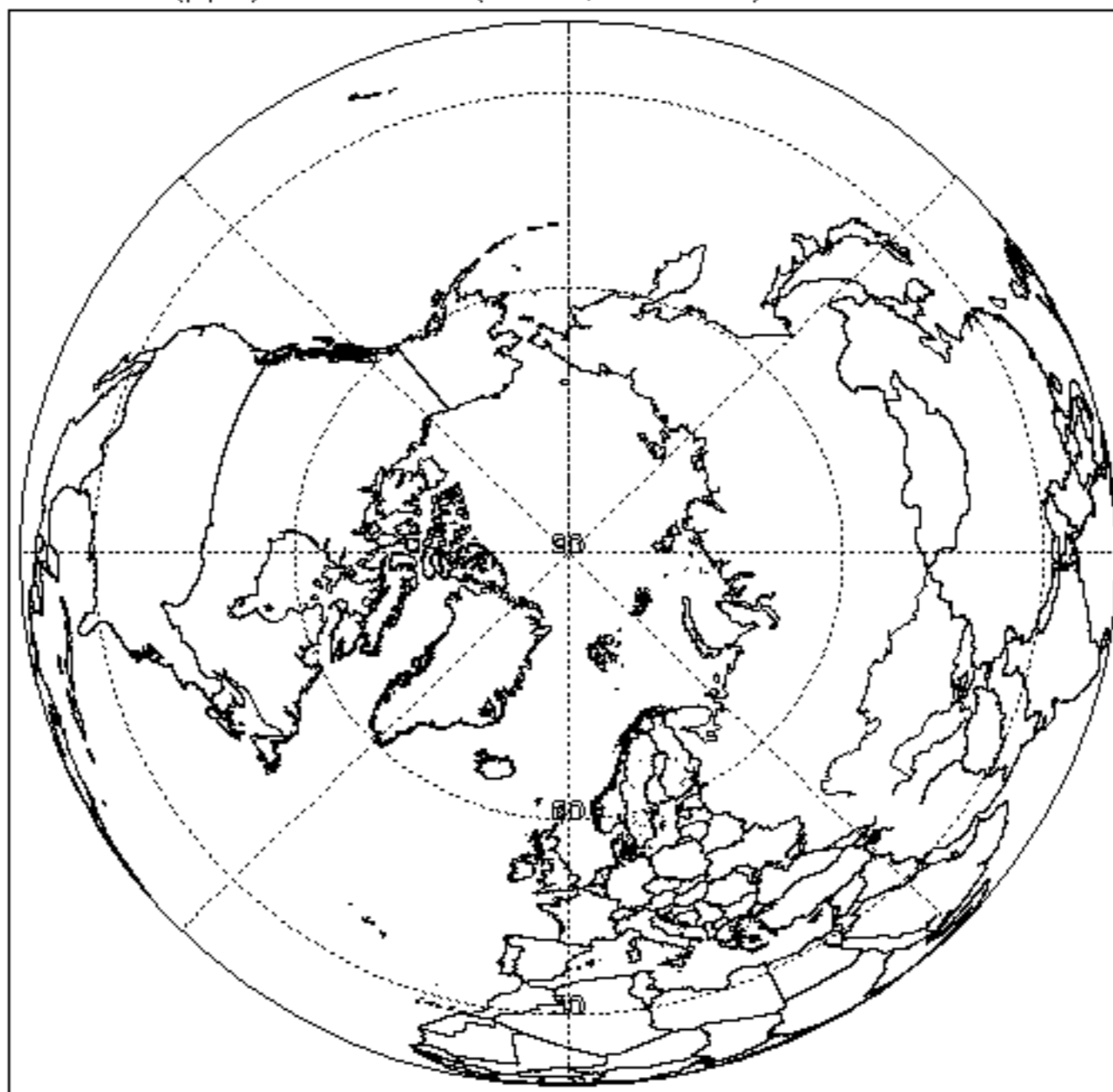
HN03 (ppb) at 410 K (16km, 100hPa). 24-JAN-2012



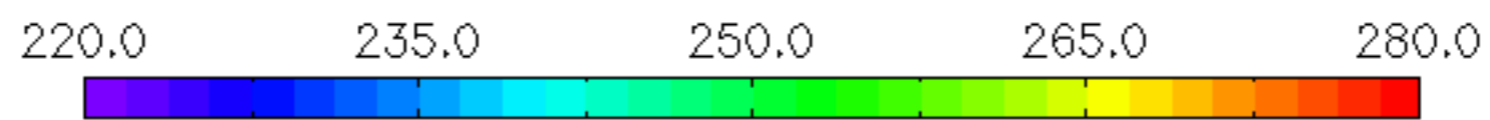
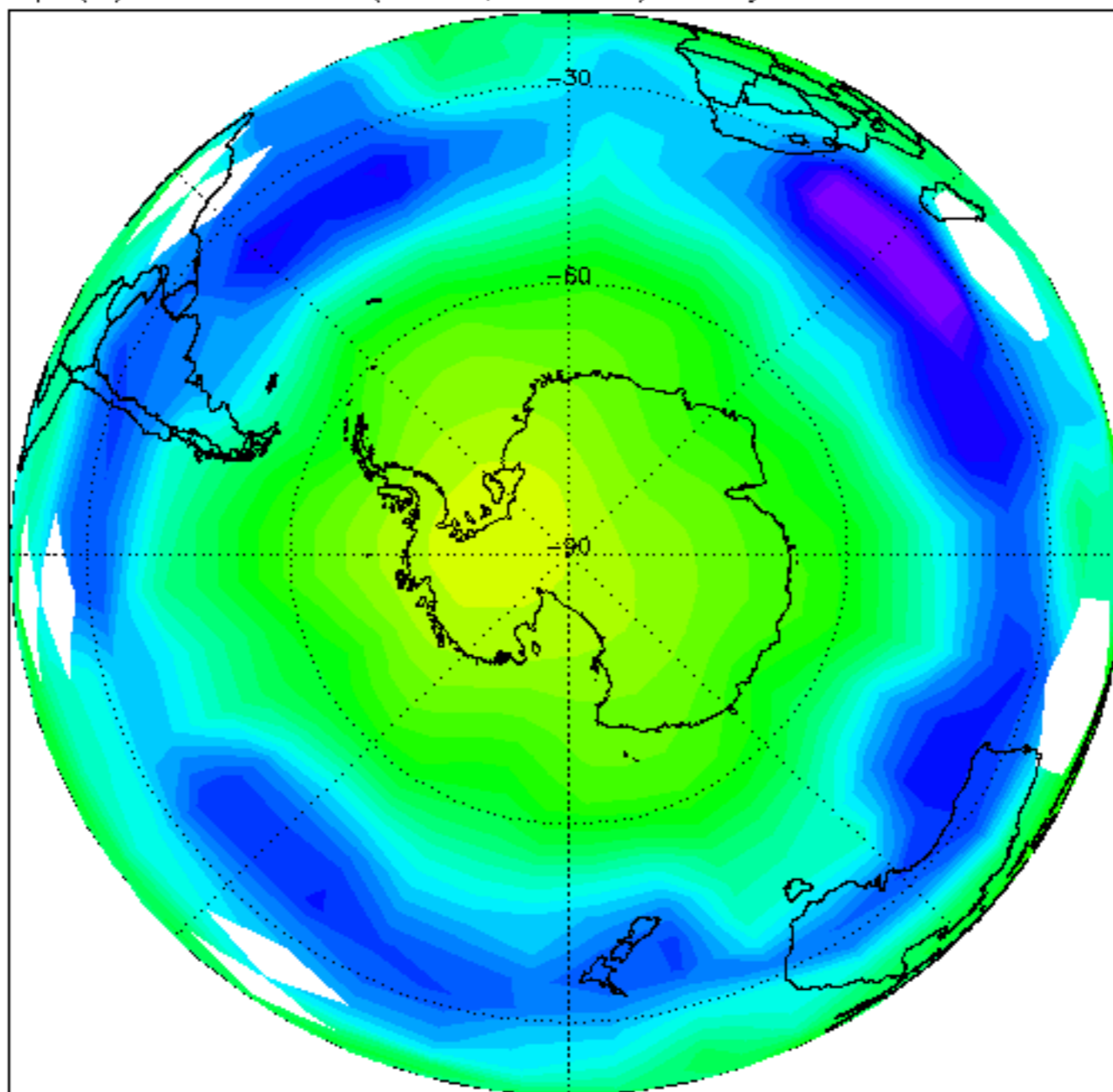
CH₄ (ppm) at 410 K (16km, 100hPa). 24-JAN-2012



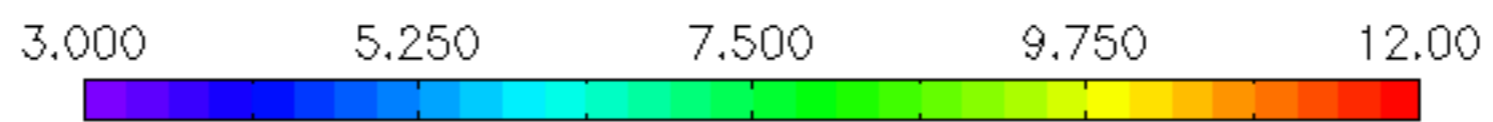
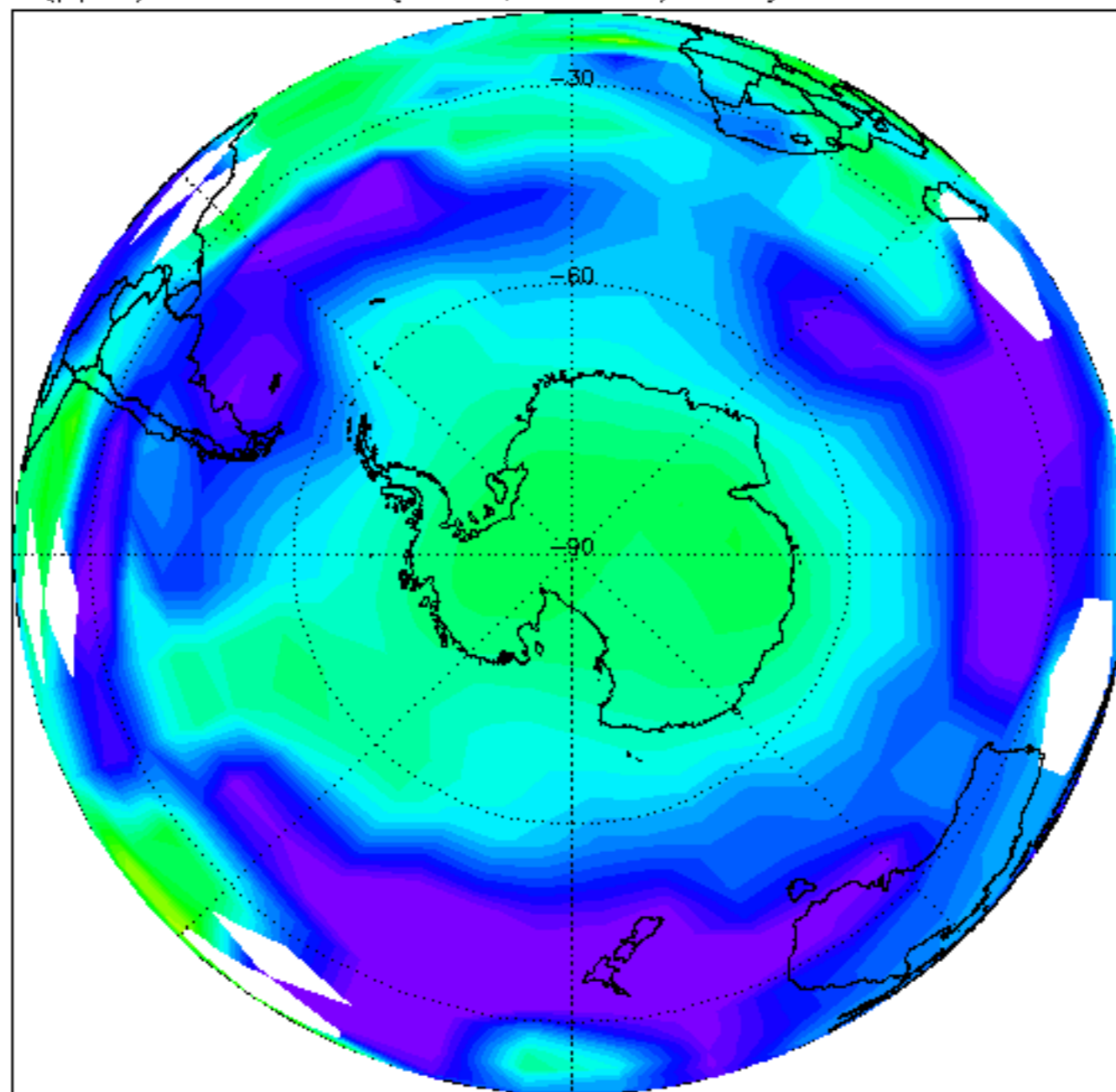
N2O (ppb) at 410 K (16km, 100hPa). 24-JAN-2012



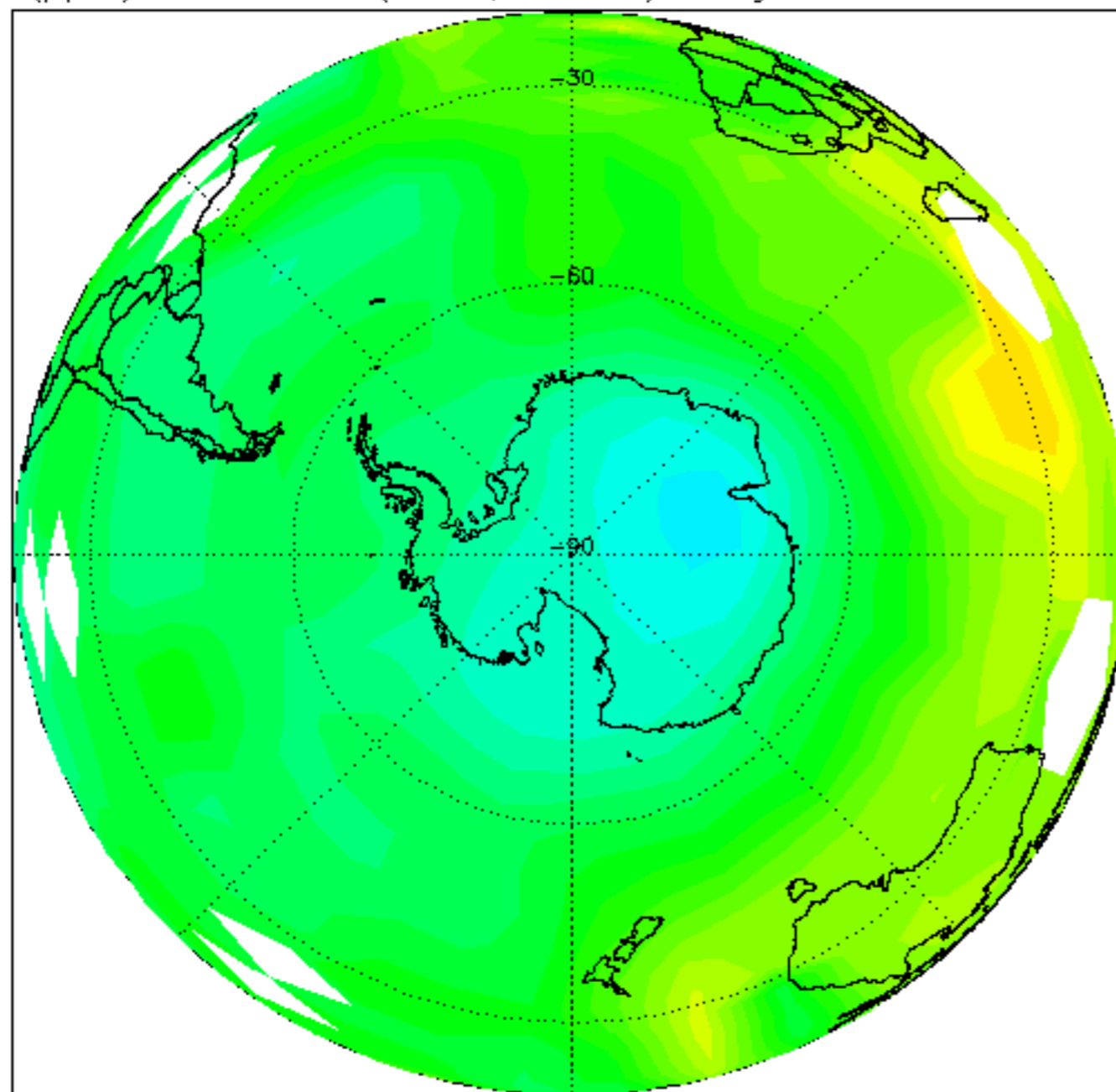
Temp (K) at: 2700 K (60km, 0.2hPa). Daily mean: 24-JAN-2012



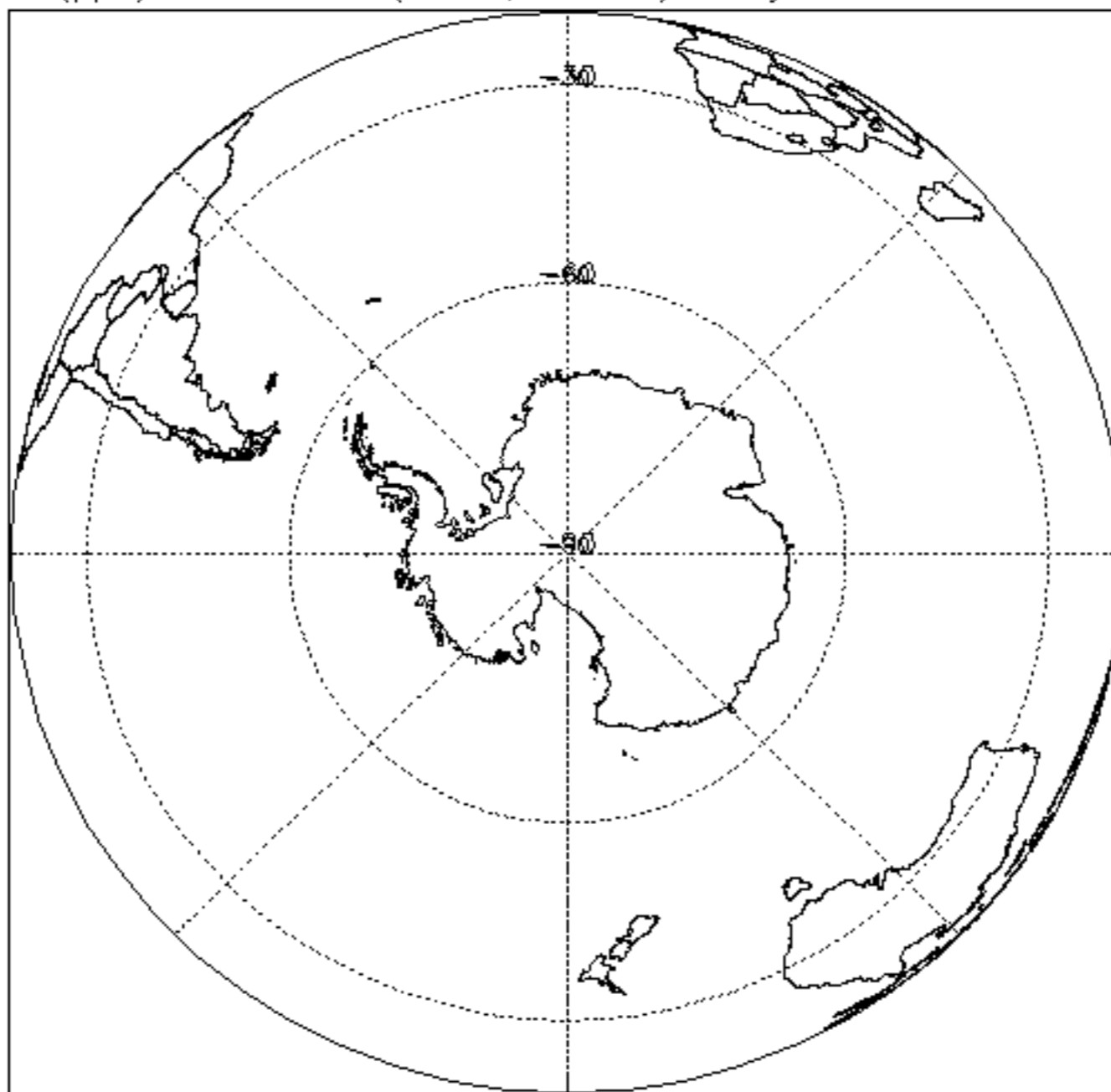
H₂O (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 24-JAN-2012



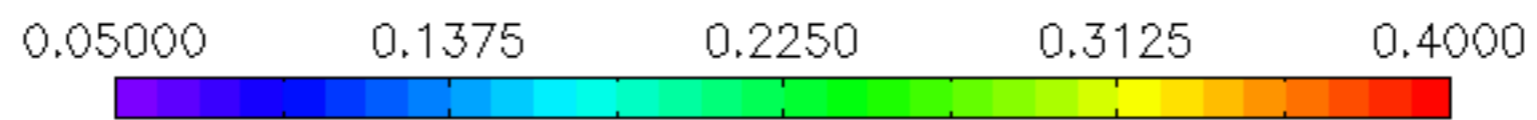
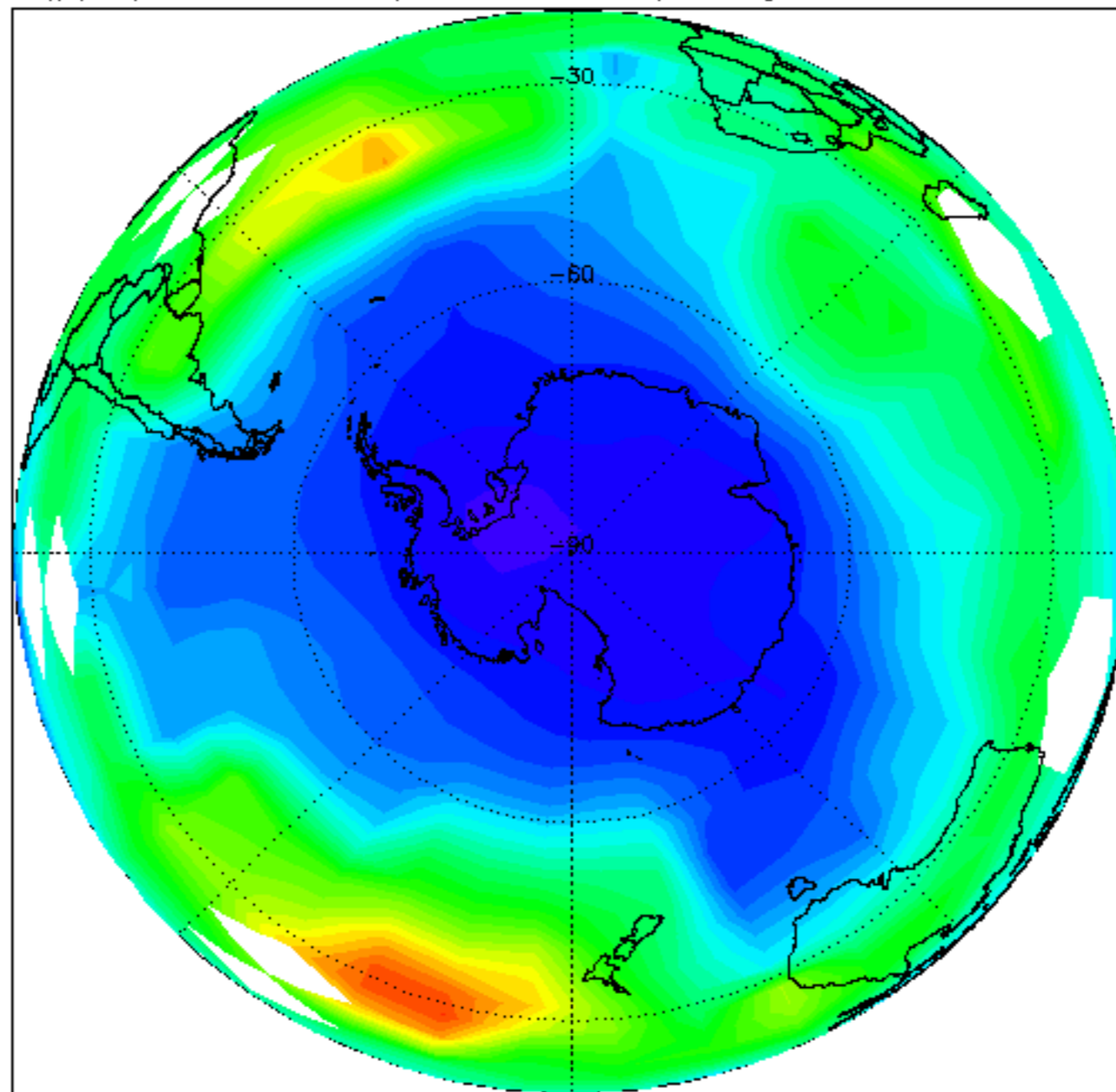
O₃ (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 24-JAN-2012



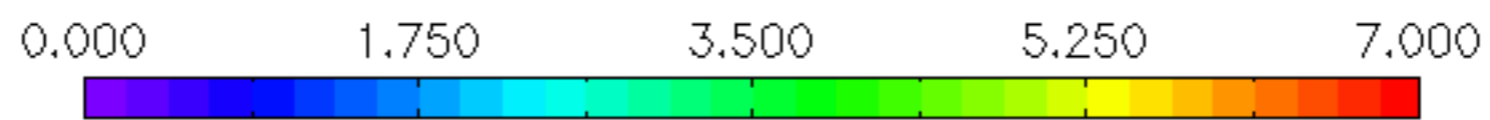
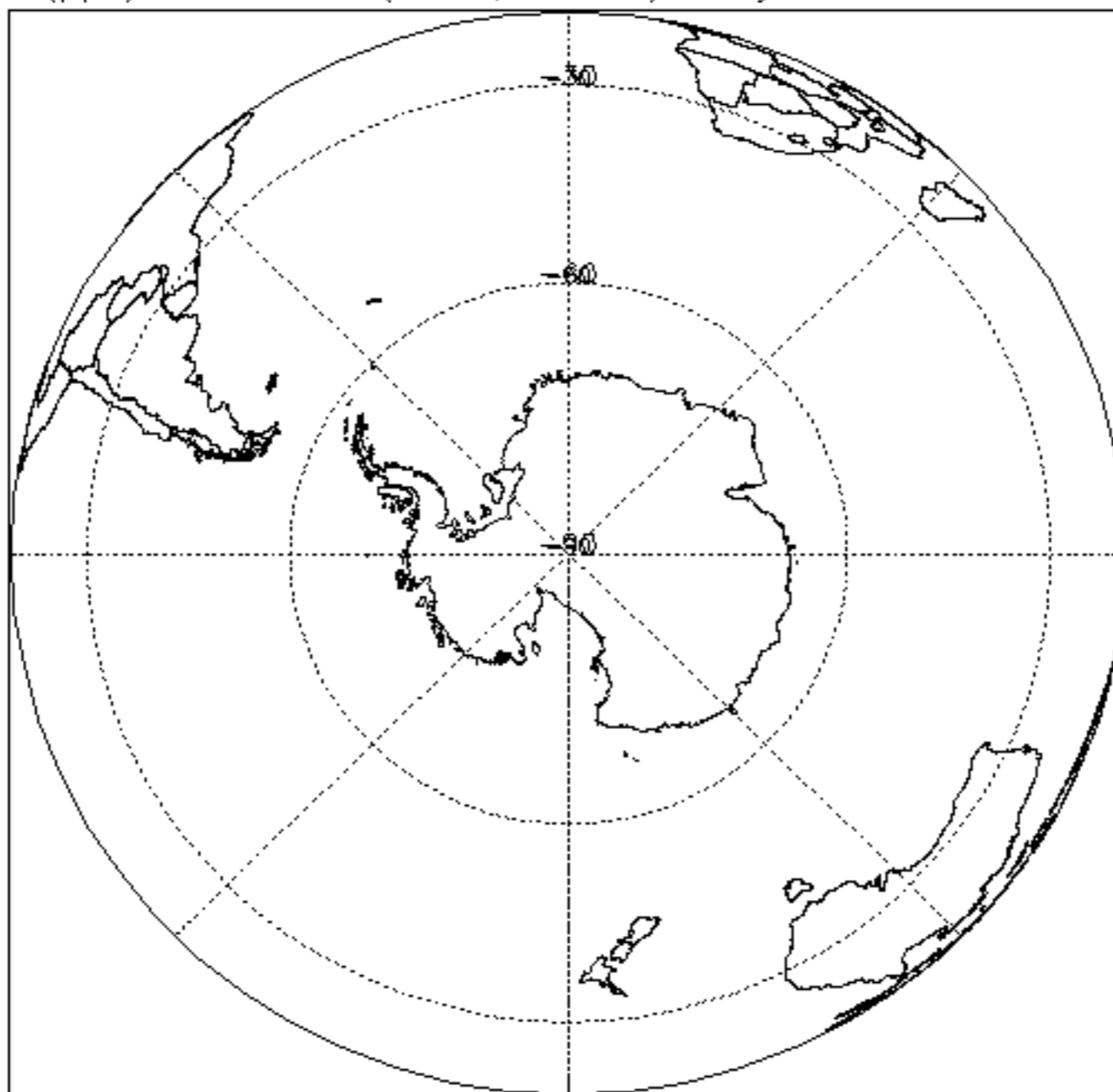
HN03 (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 24-JAN-2012



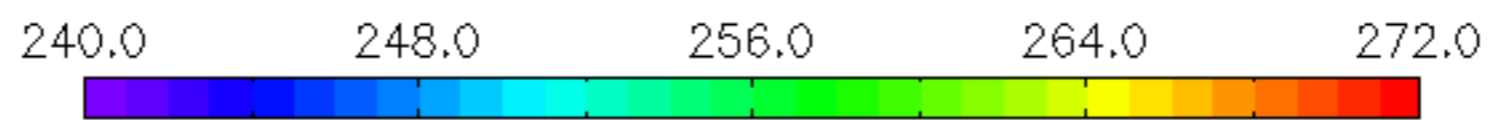
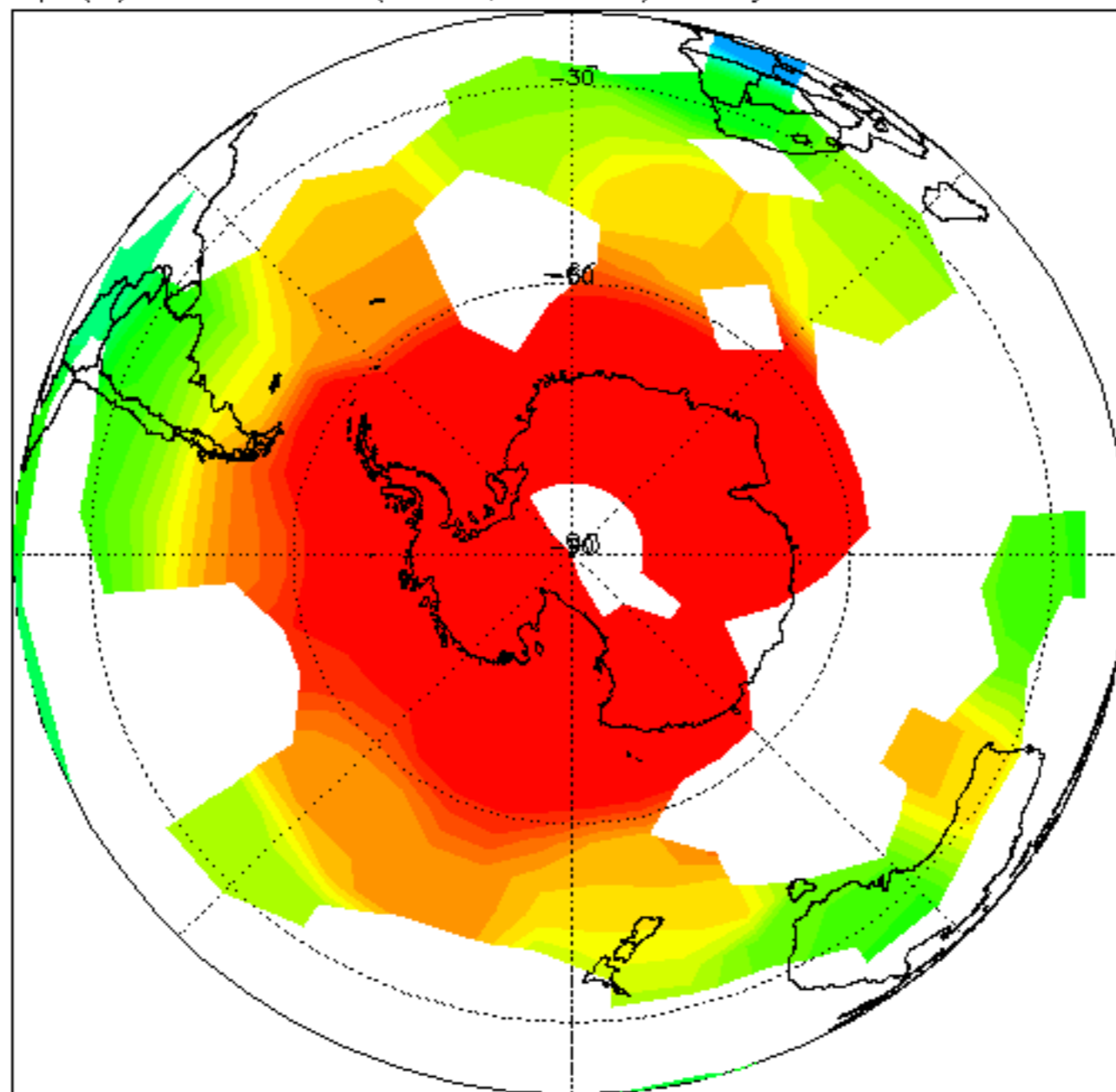
CH₄ (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 24-JAN-2012



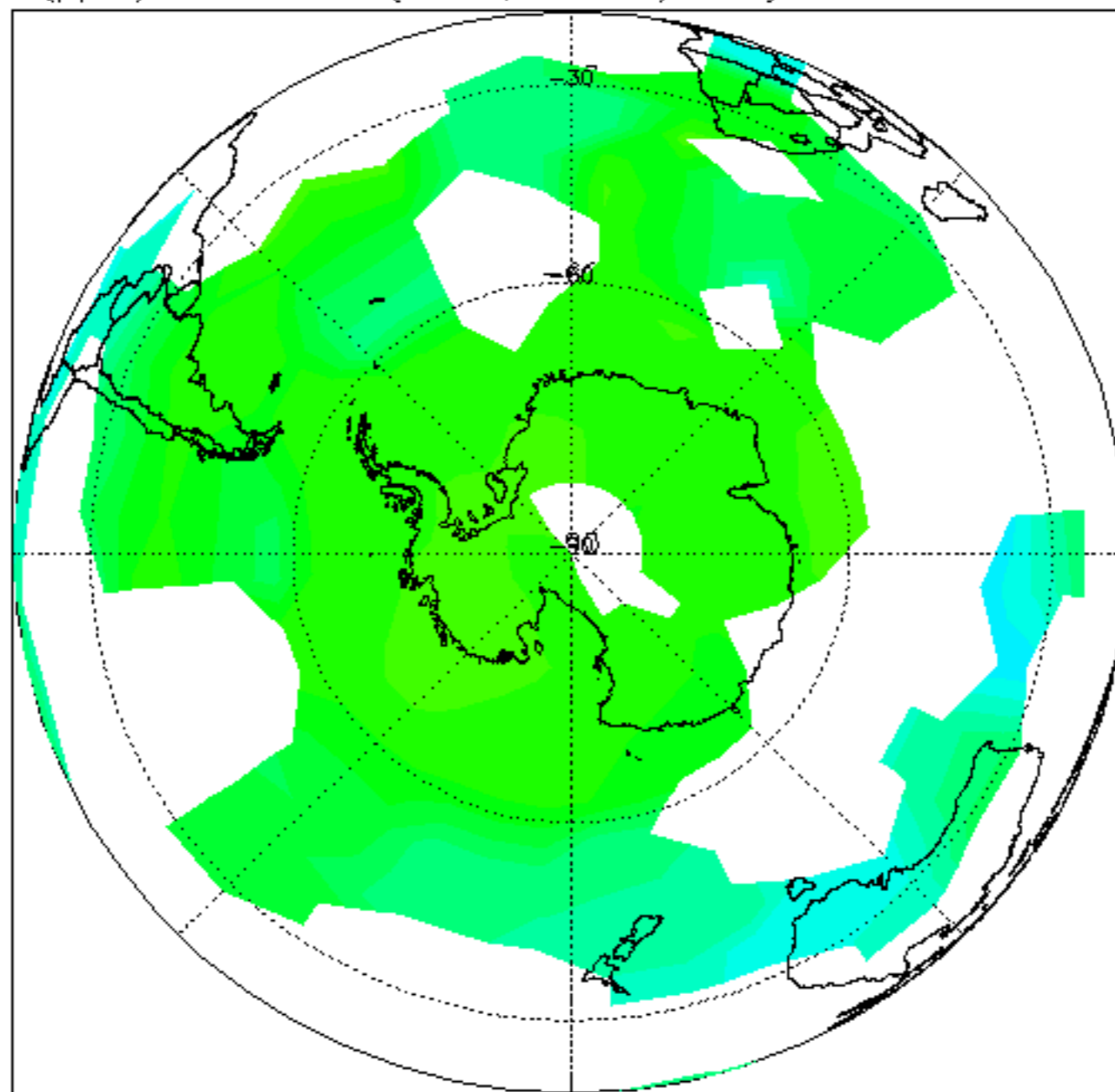
N₂O (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 24-JAN-2012



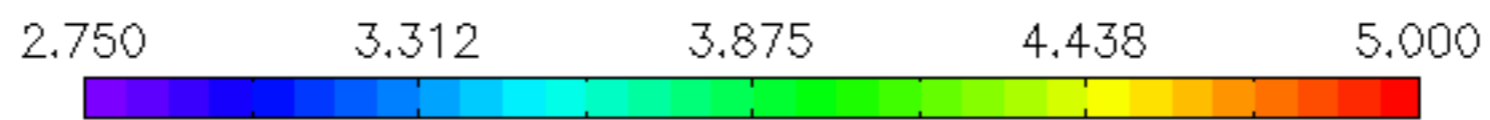
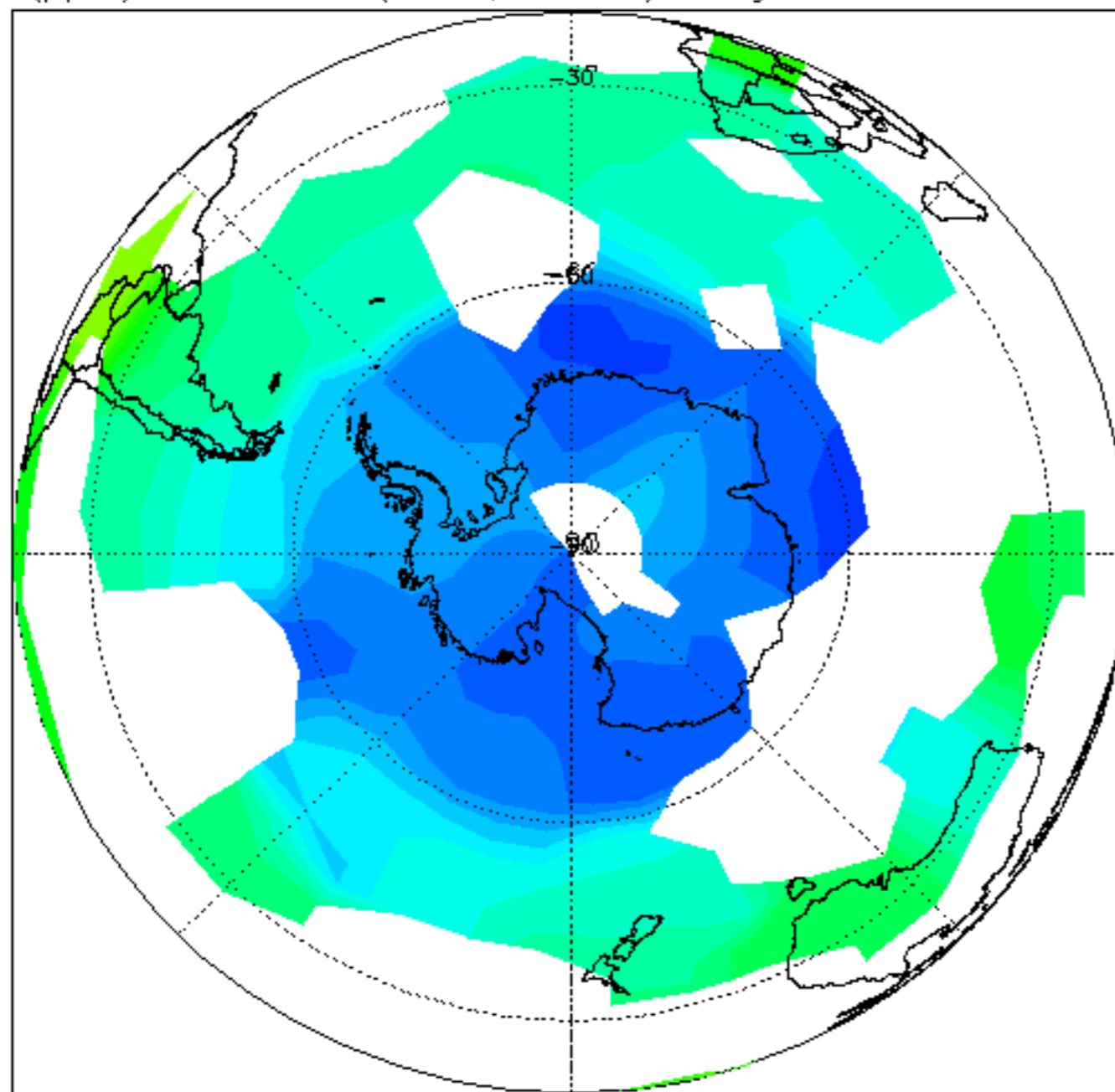
Temp (K) at: 1700 K (45km, 1.5hPa). Daily mean: 24-JAN-2012



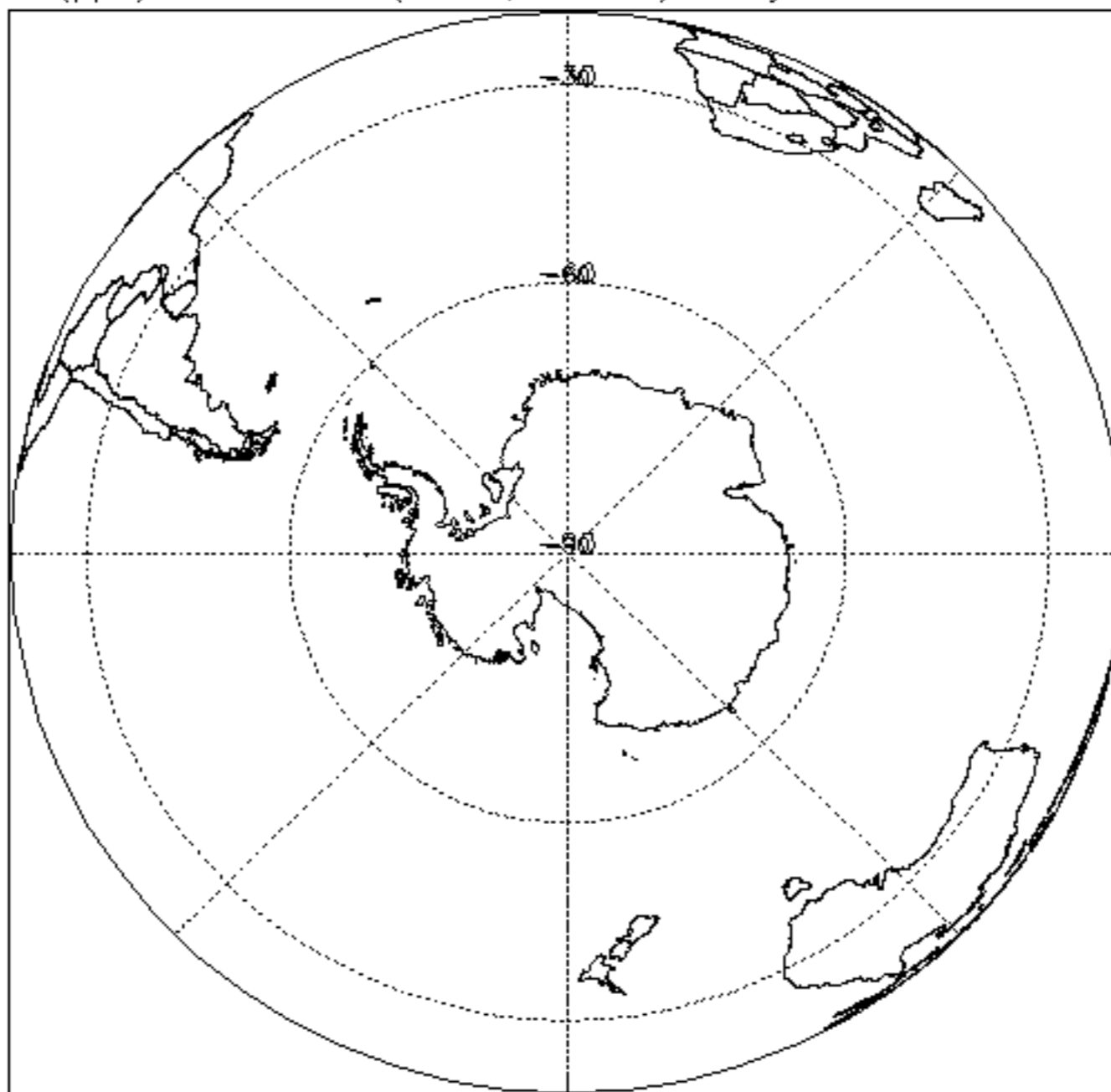
H₂O (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 24-JAN-2012



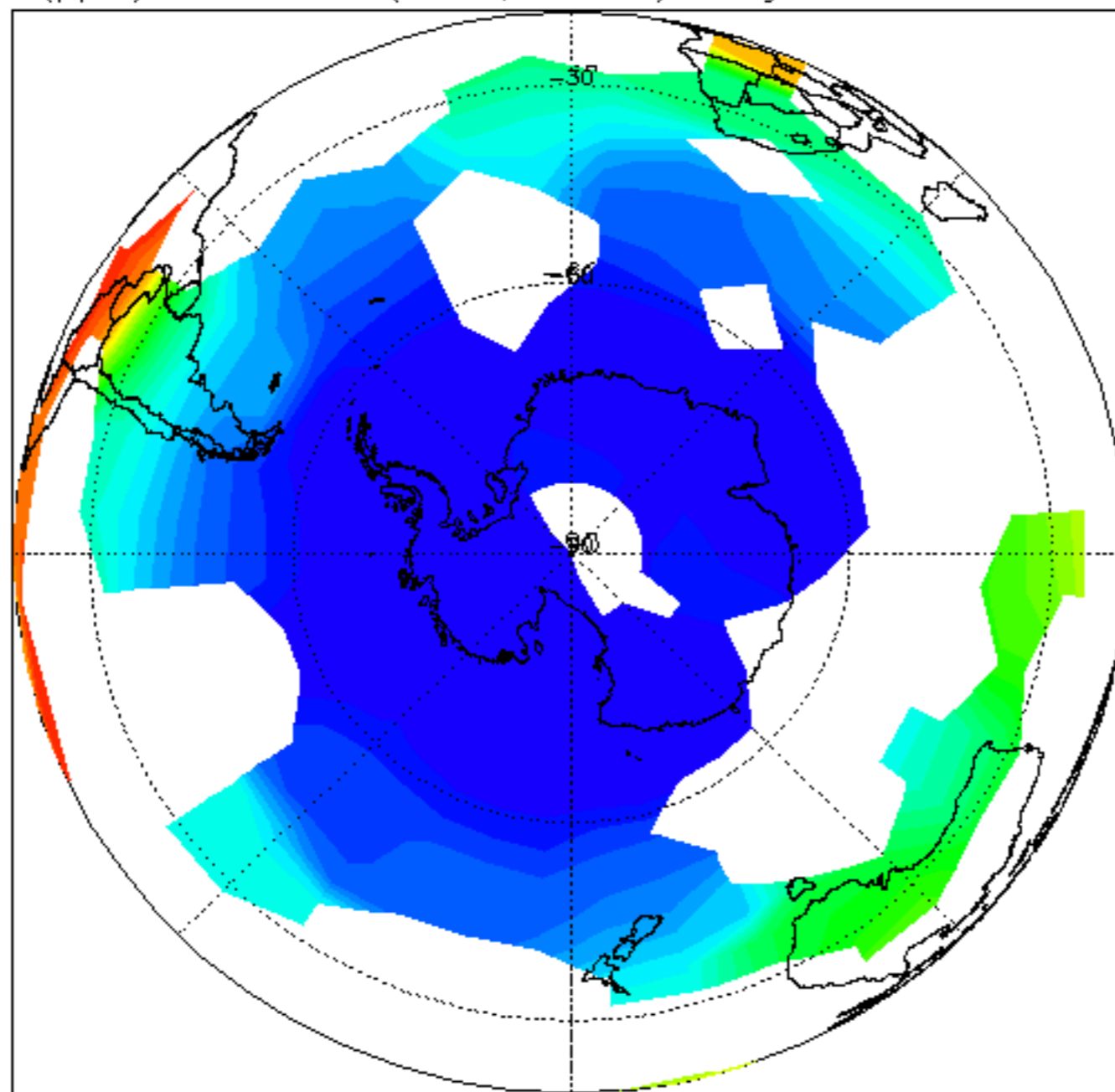
O₃ (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 24-JAN-2012



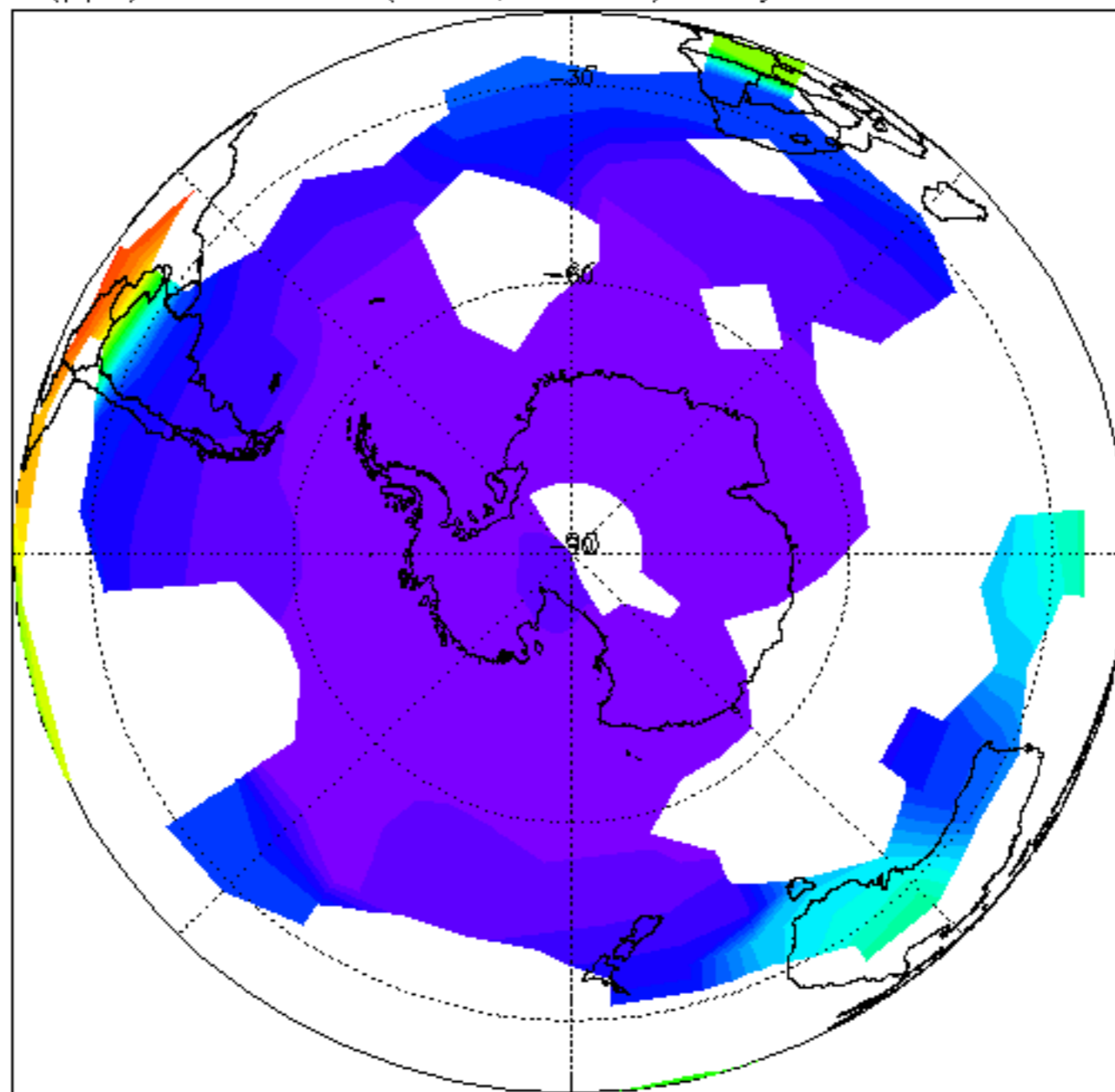
HN03 (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 24-JAN-2012



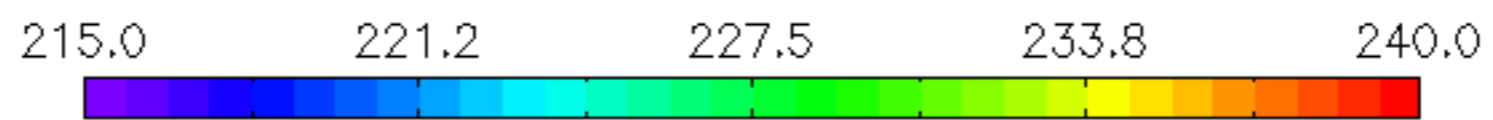
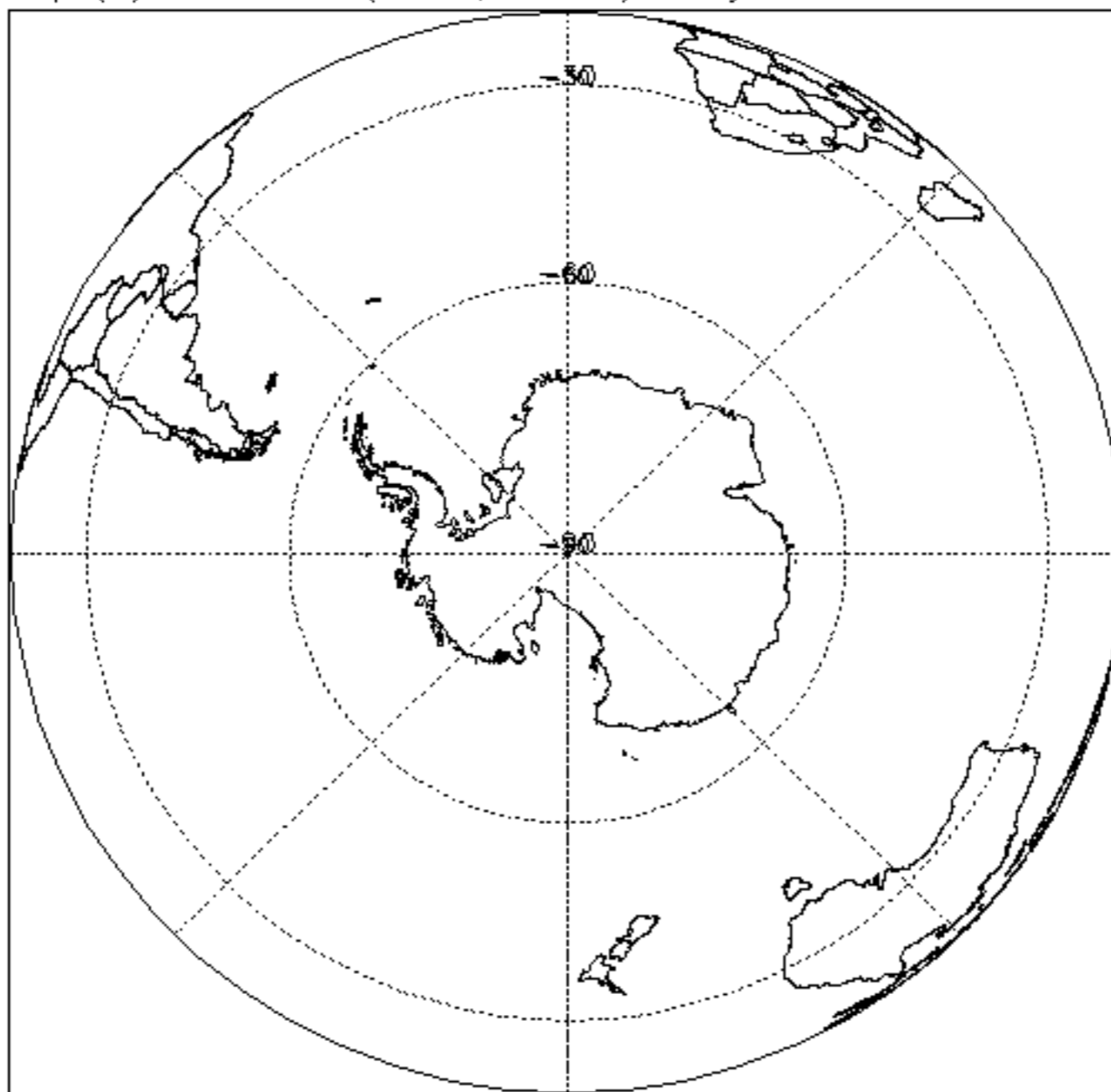
CH₄ (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 24-JAN-2012



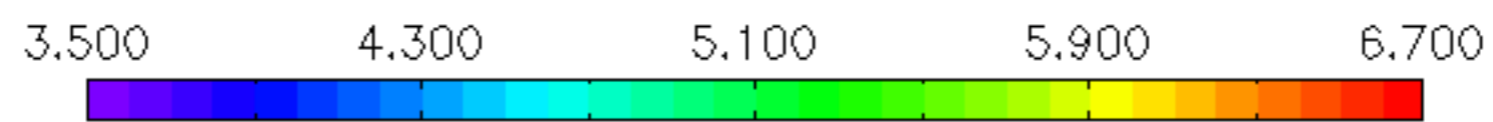
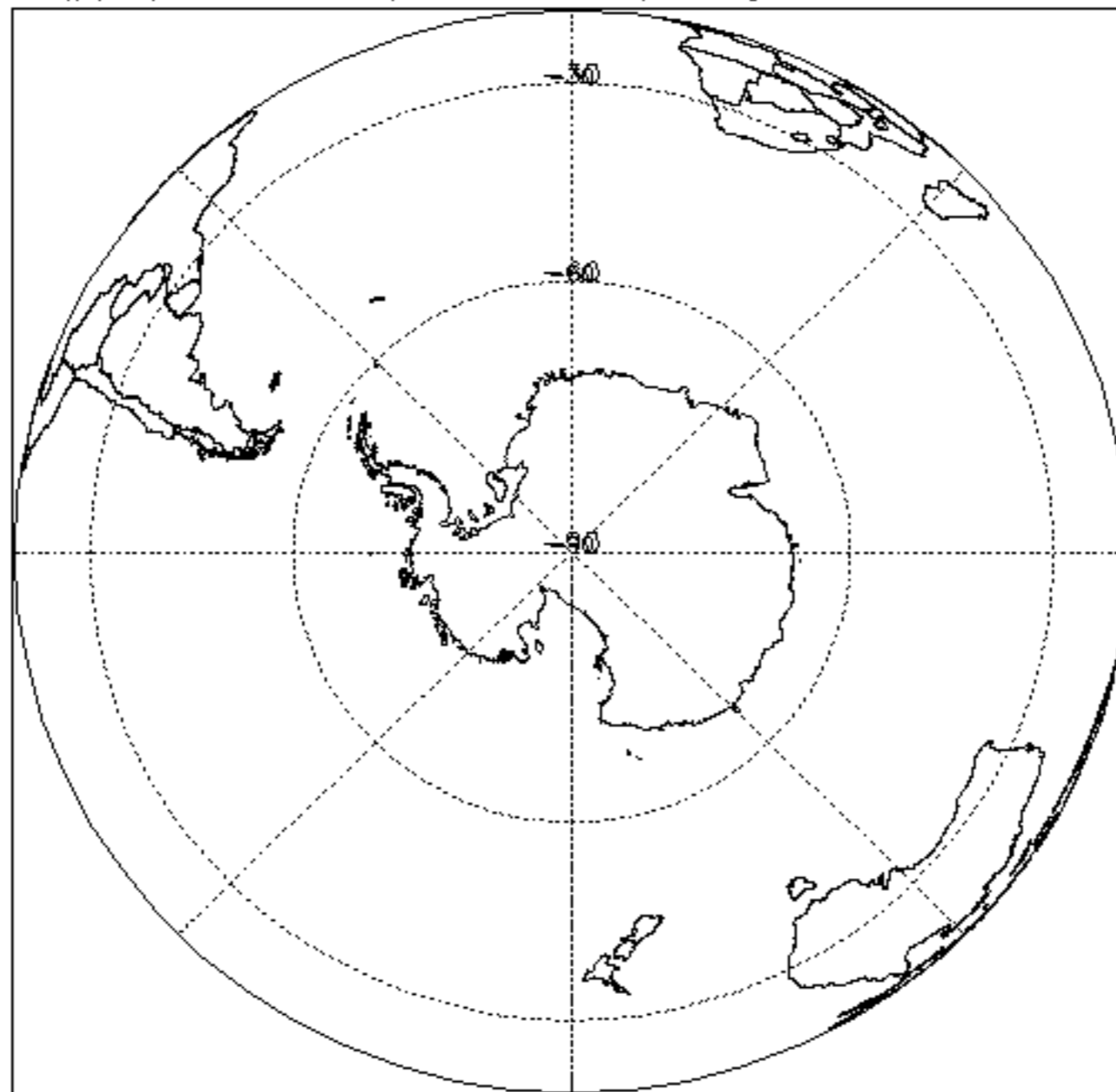
N₂O (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 24-JAN-2012



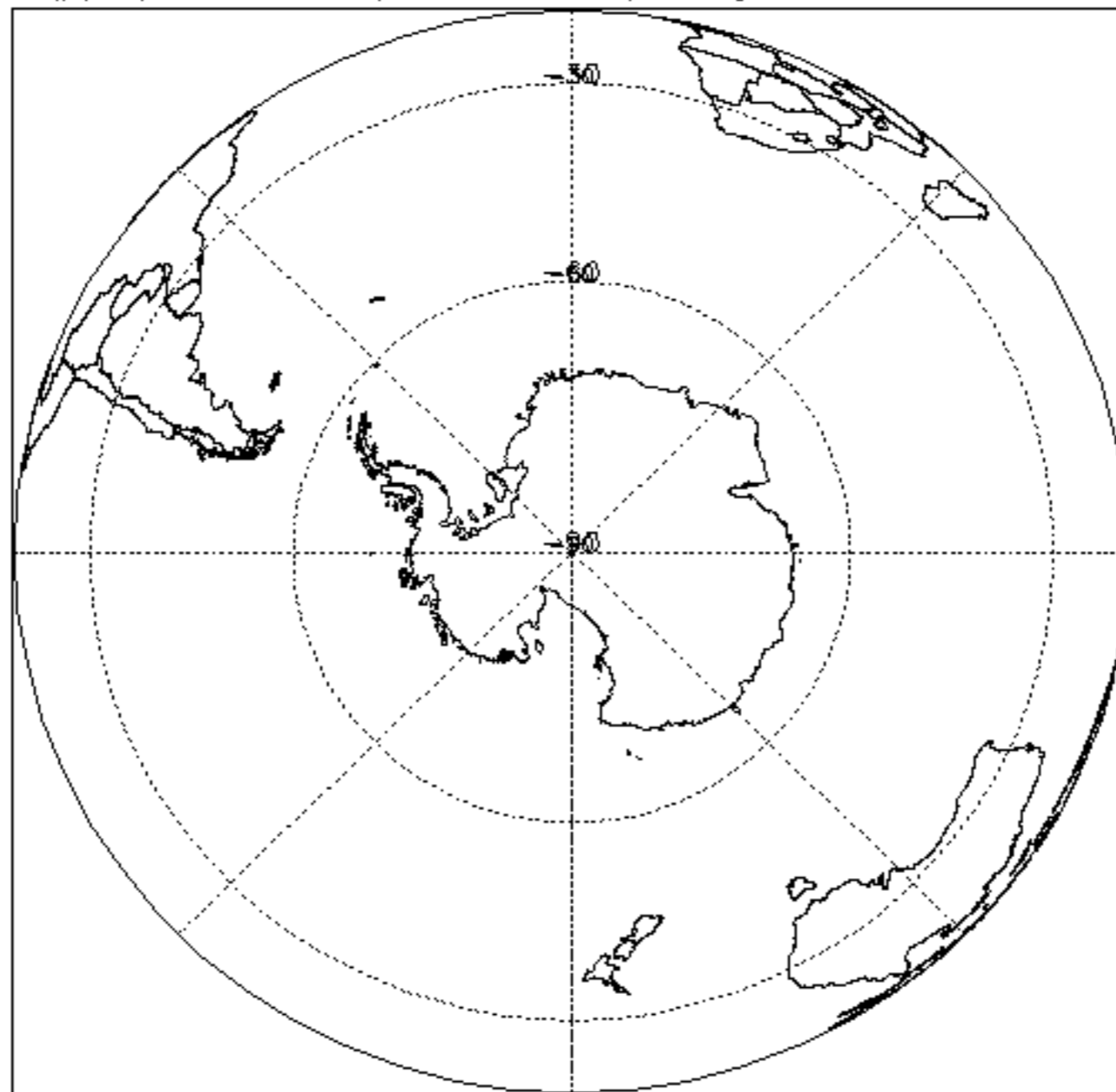
Temp (K) at: 850 K (32km, 10hPa). Daily mean: 24-JAN-2012



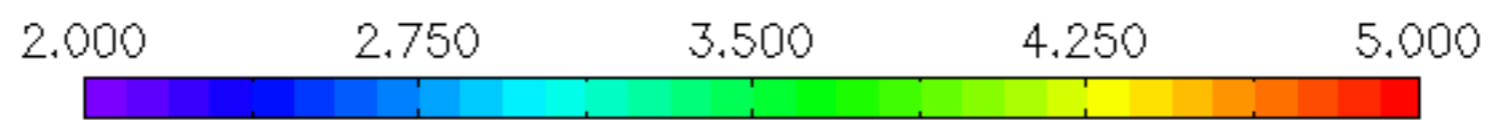
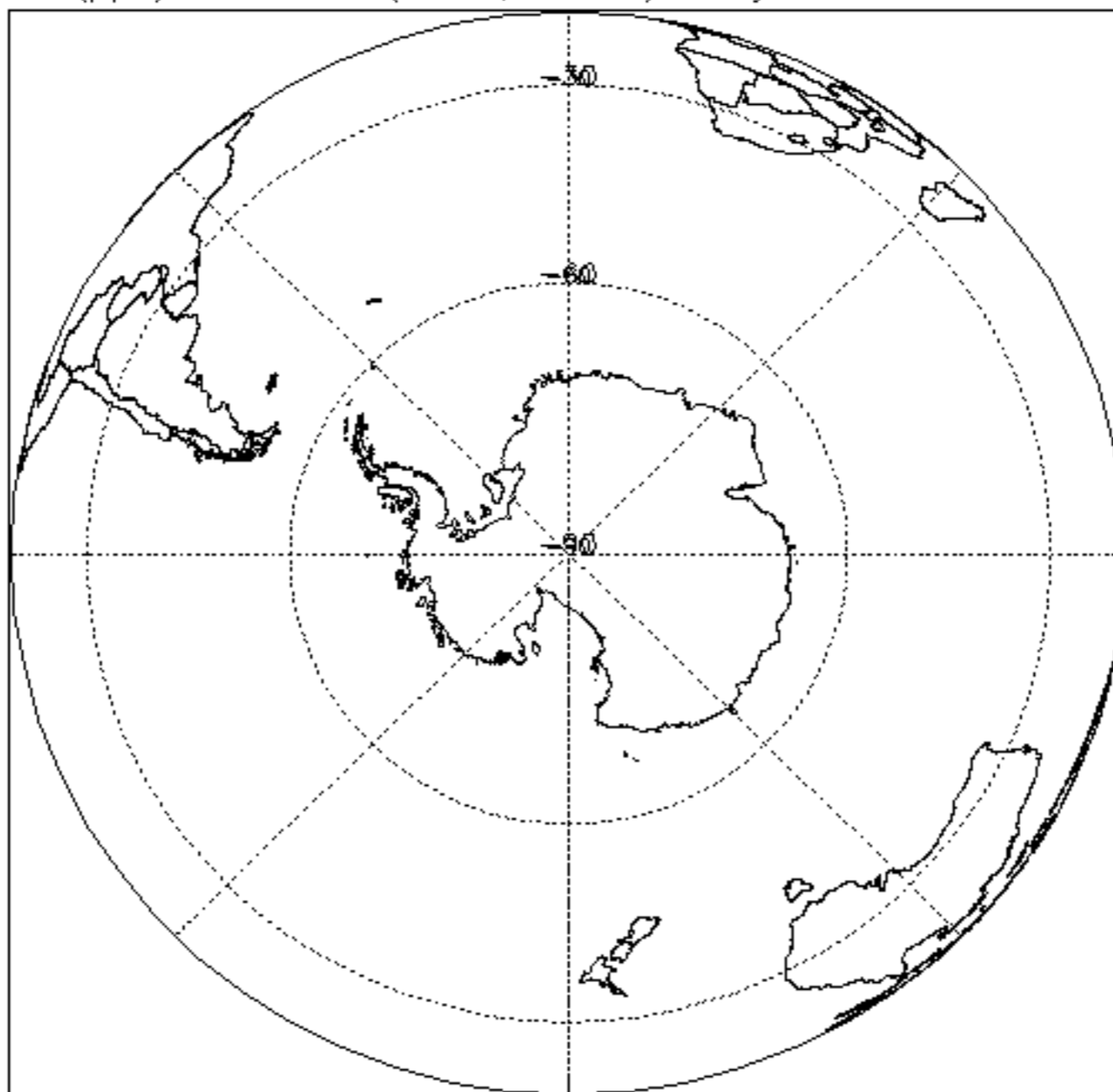
H₂O (ppm) at: 850 K (32km, 10hPa). Daily mean: 24-JAN-2012



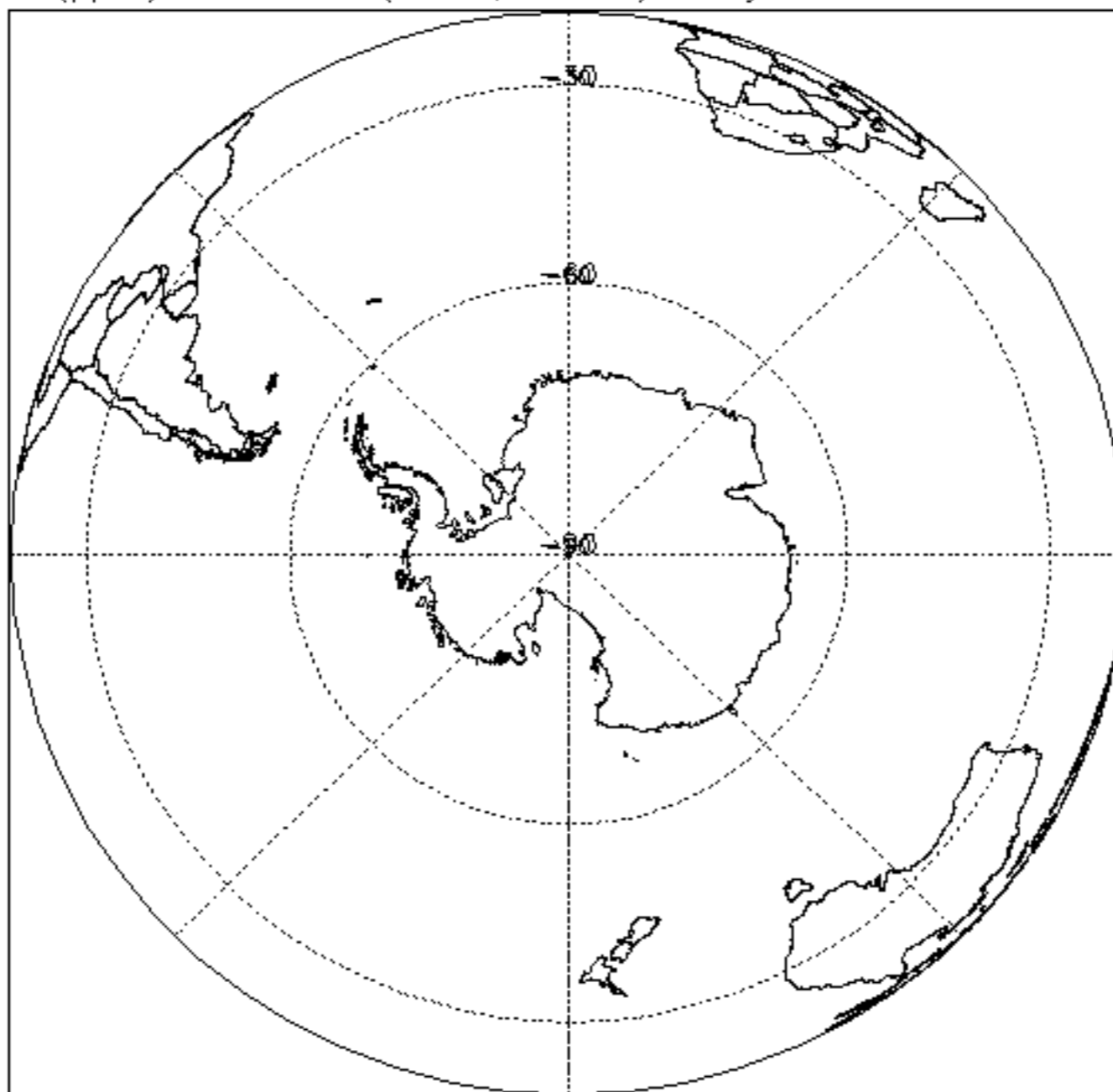
O₃ (ppm) at: 850 K (32km, 10hPa). Daily mean: 24-JAN-2012



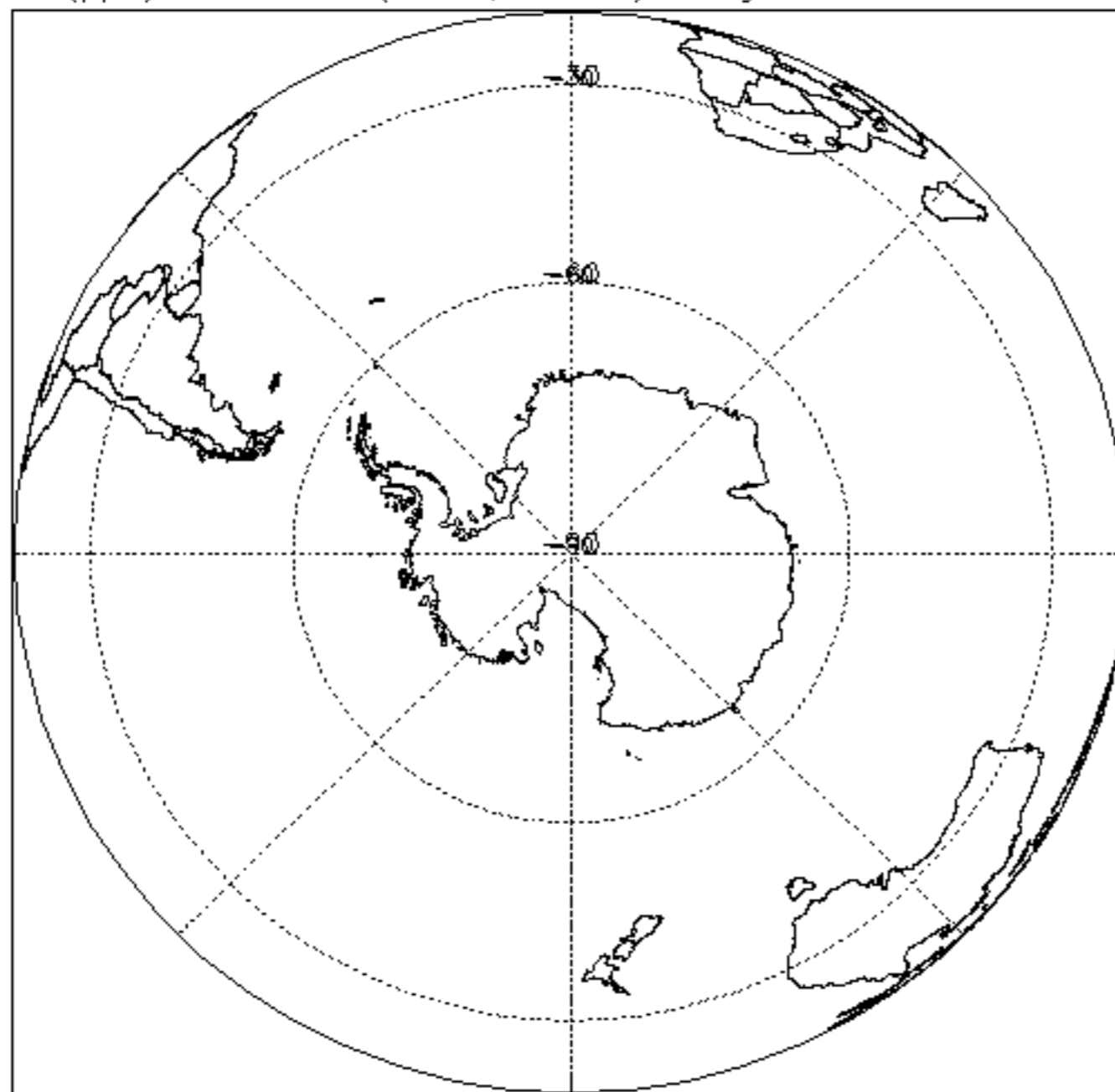
HNO₃ (ppb) at: 850 K (32km, 10hPa). Daily mean: 24-JAN-2012



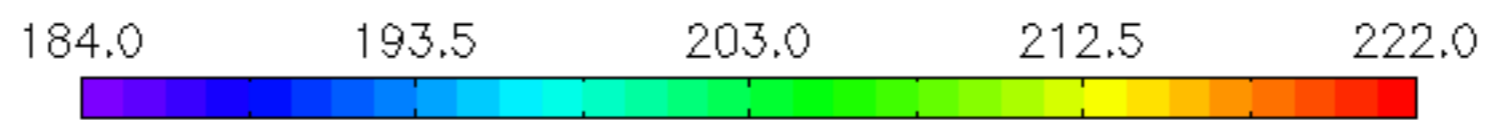
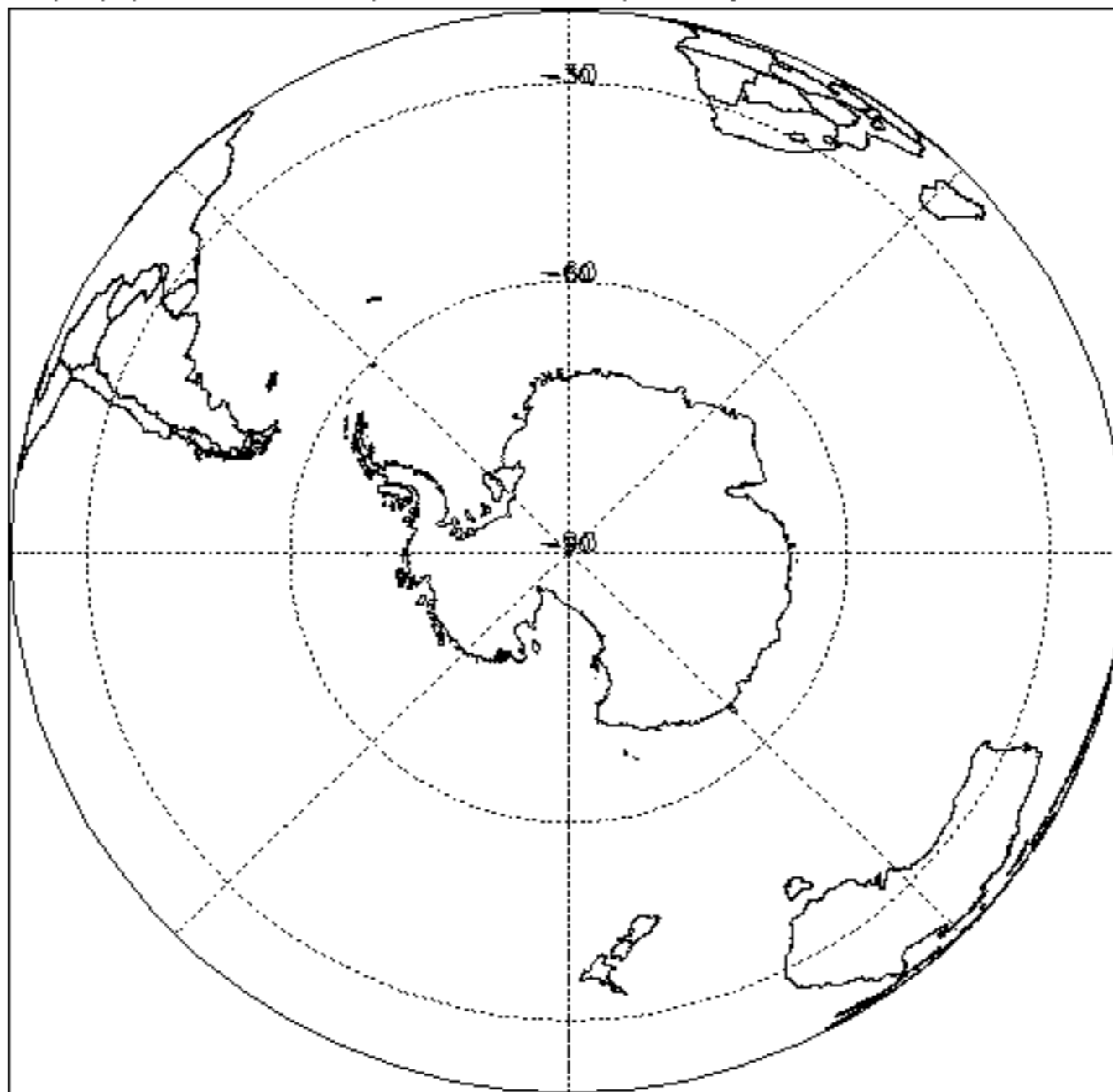
CH₄ (ppm) at: 850 K (32km, 10hPa). Daily mean: 24-JAN-2012



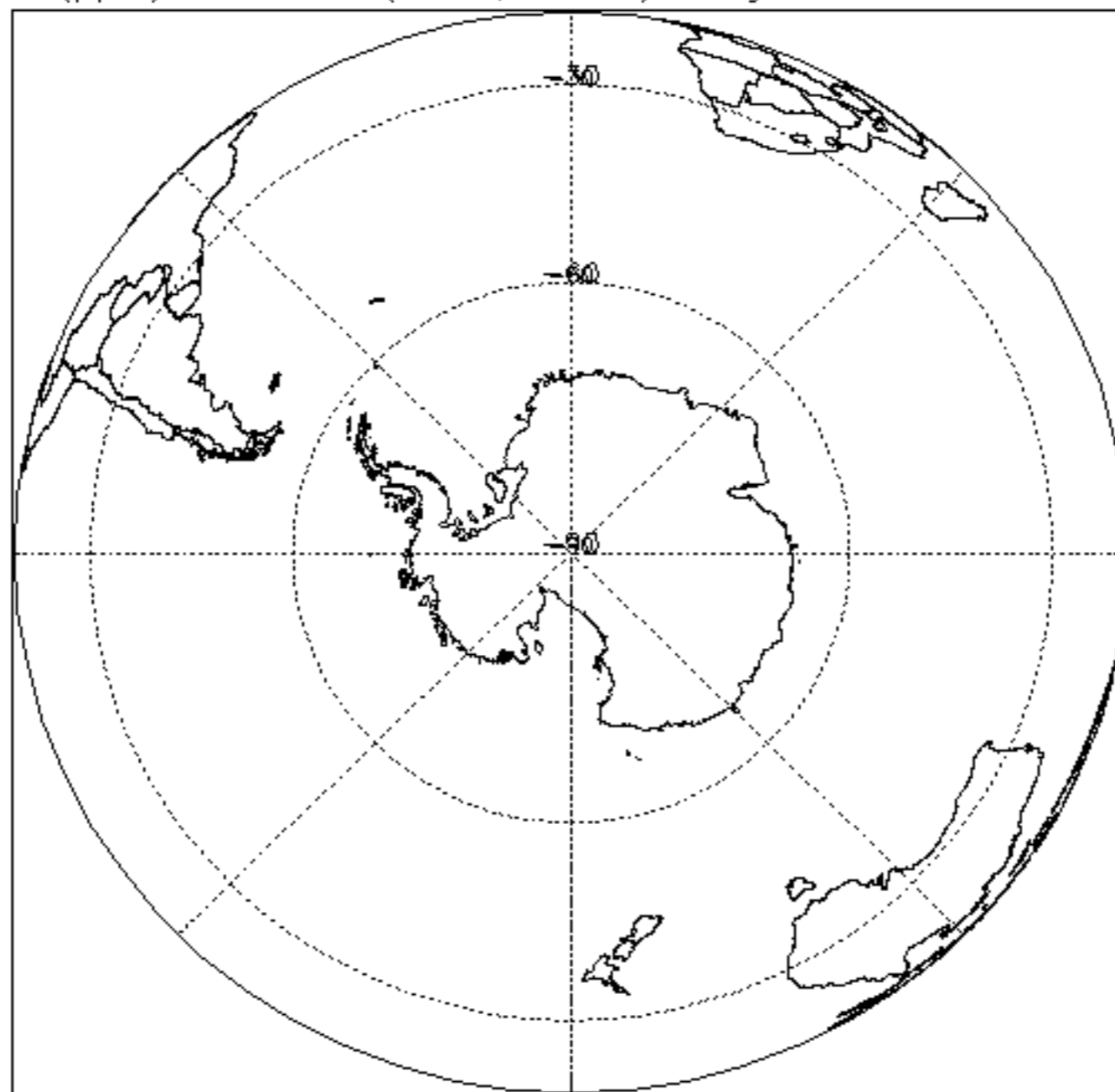
N₂O (ppb) at: 850 K (32km, 10hPa). Daily mean: 24-JAN-2012



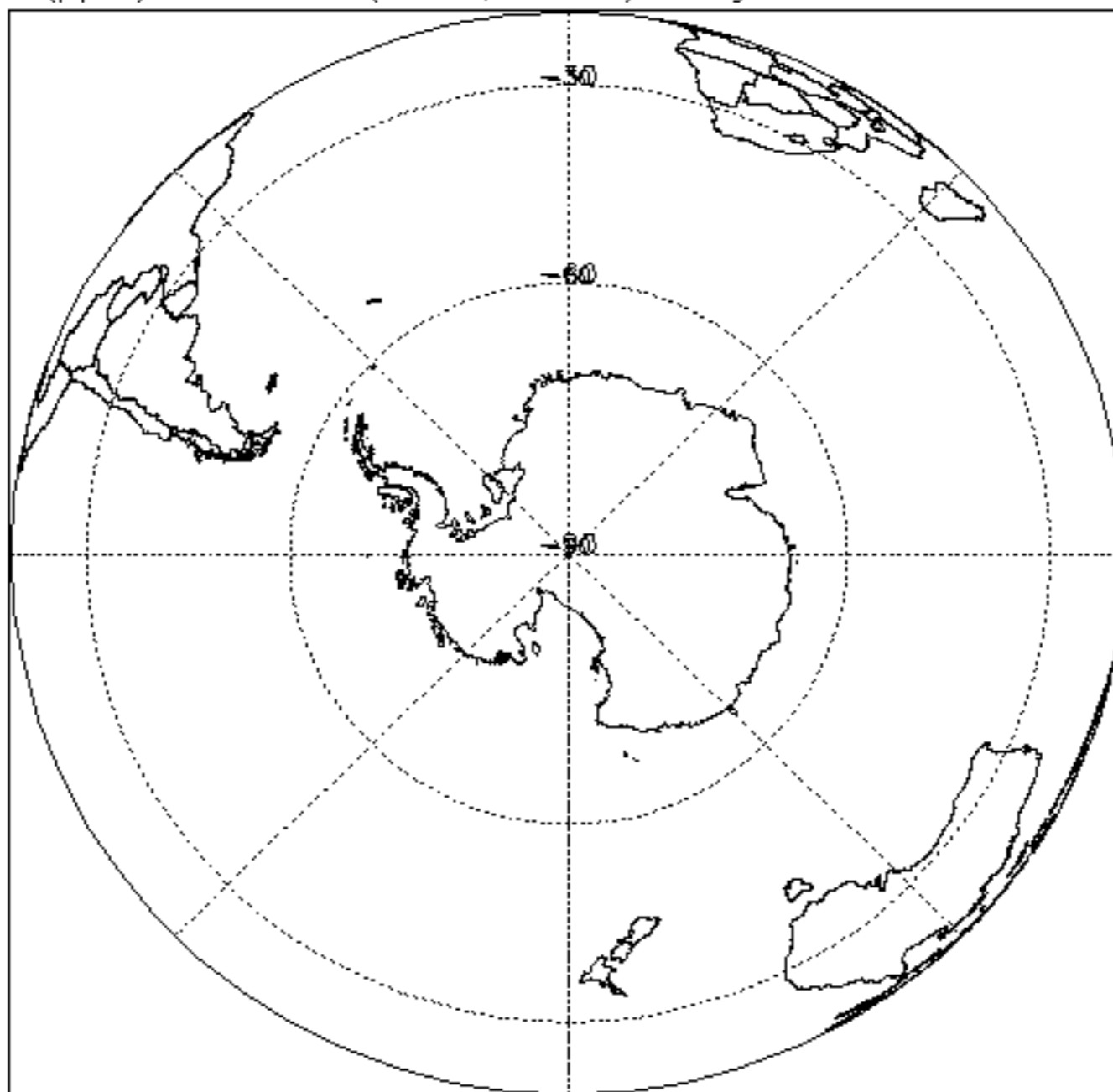
Temp (K) at: 490 K (19km, 55hPa). Daily mean: 24-JAN-2012



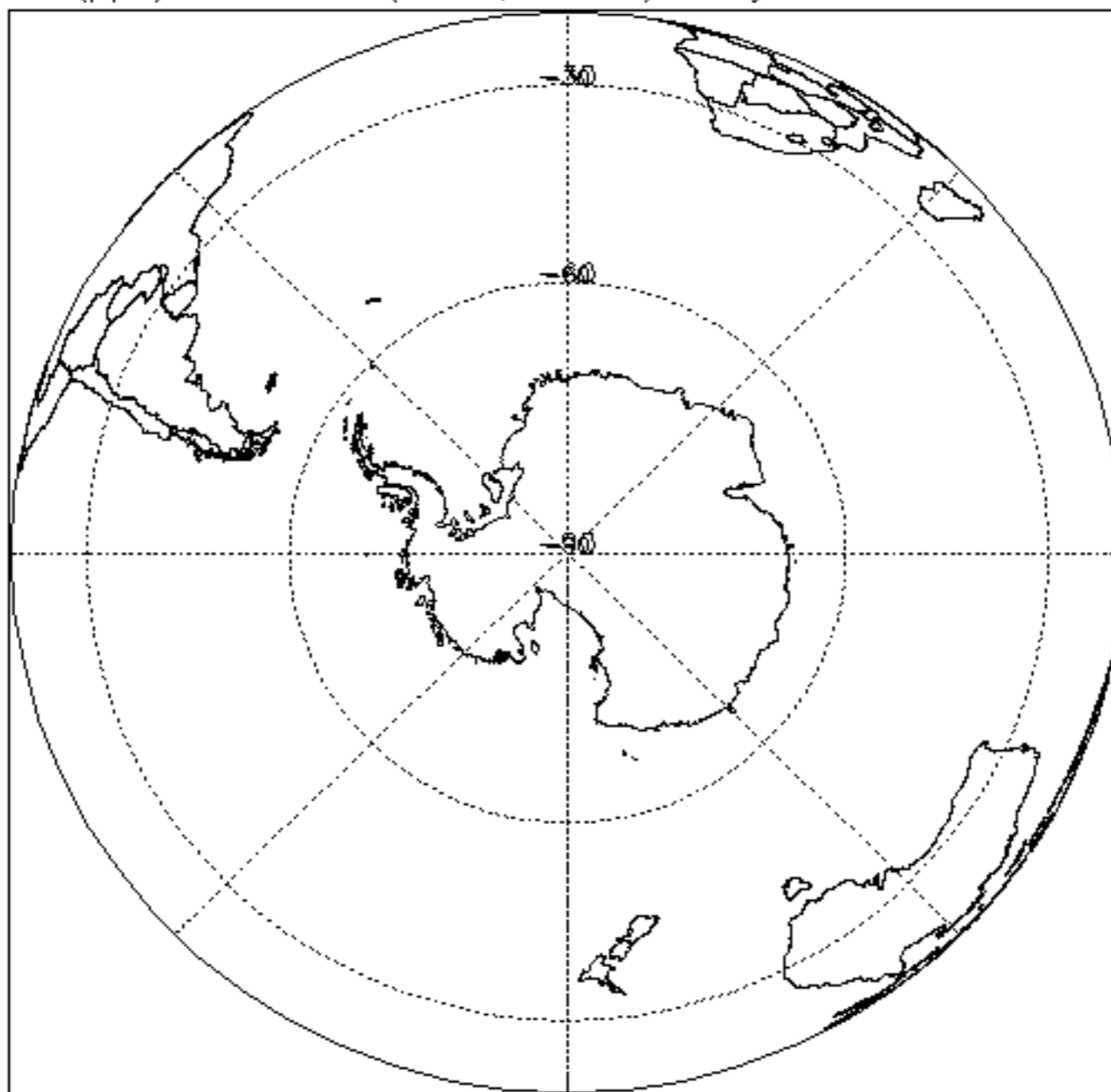
H₂O (ppm) at: 490 K (19km, 55hPa). Daily mean: 24-JAN-2012



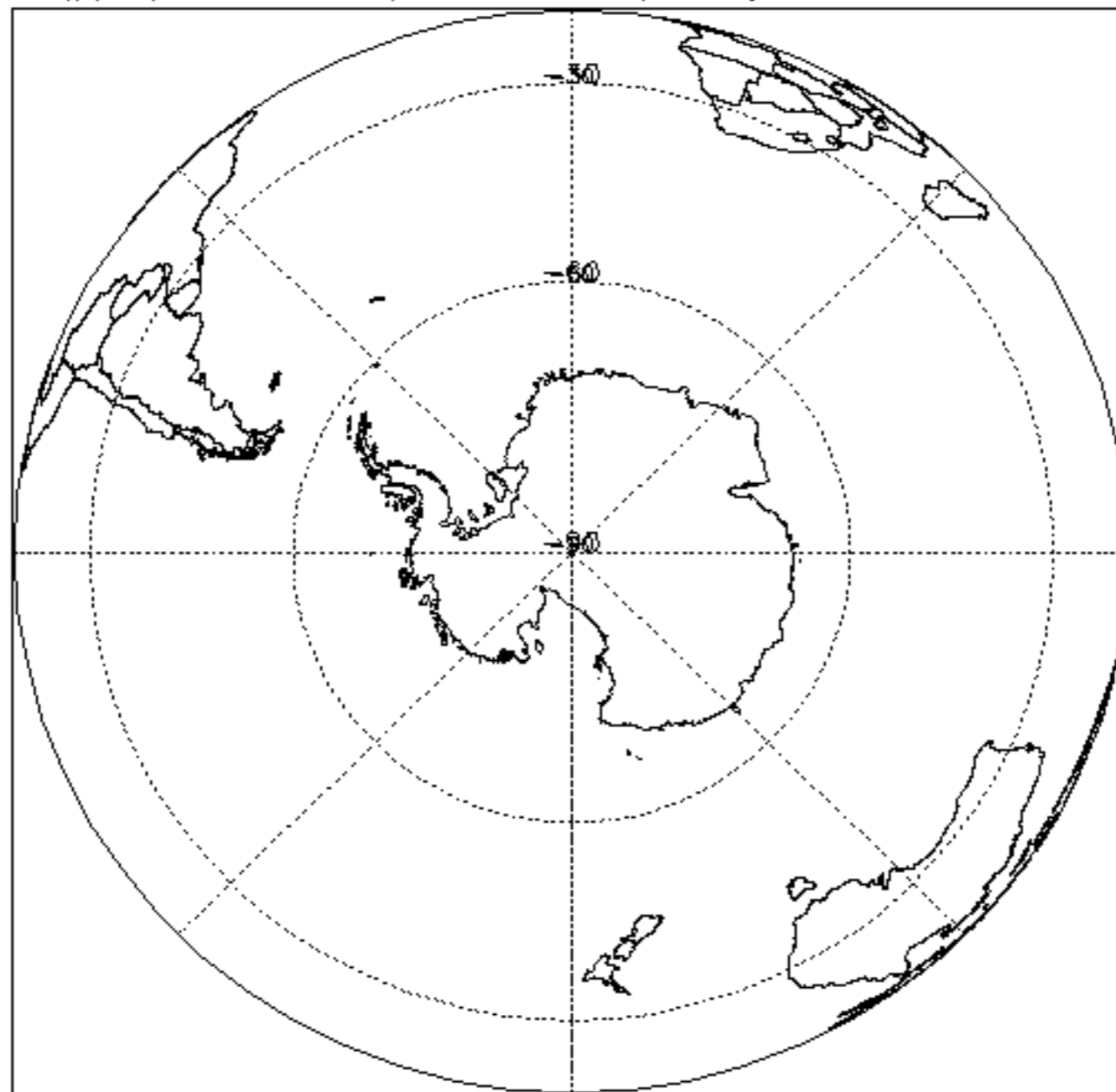
O₃ (ppm) at: 490 K (19km, 55hPa). Daily mean: 24-JAN-2012



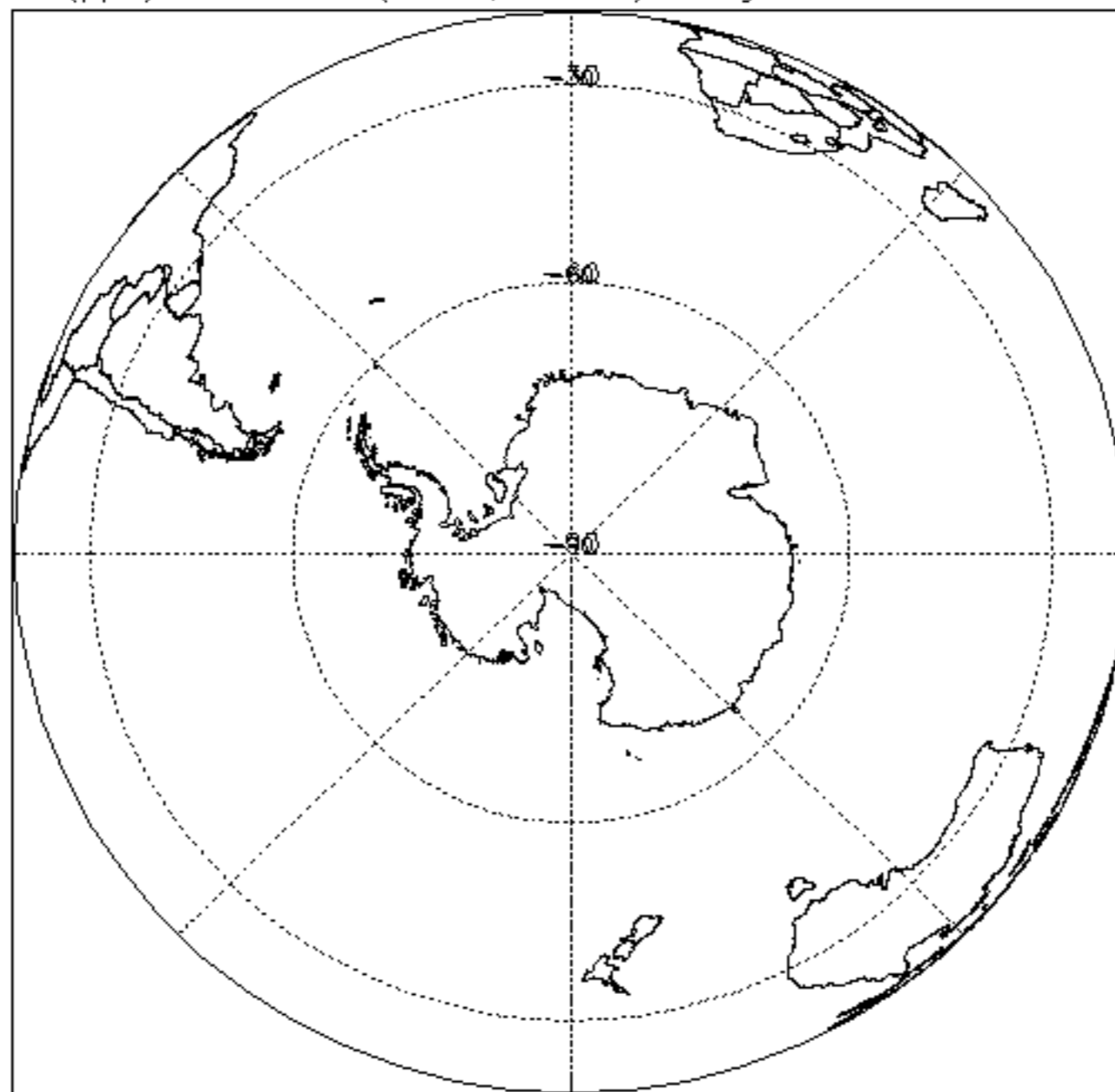
HNO₃ (ppb) at: 490 K (19km, 55hPa). Daily mean: 24-JAN-2012



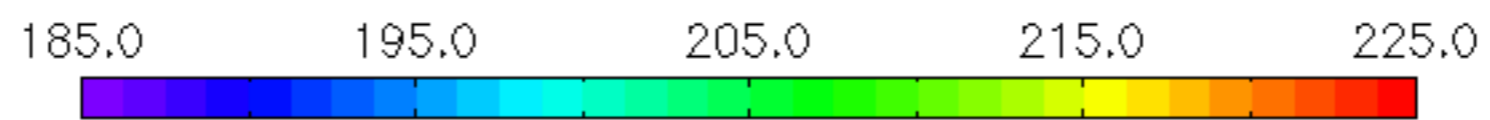
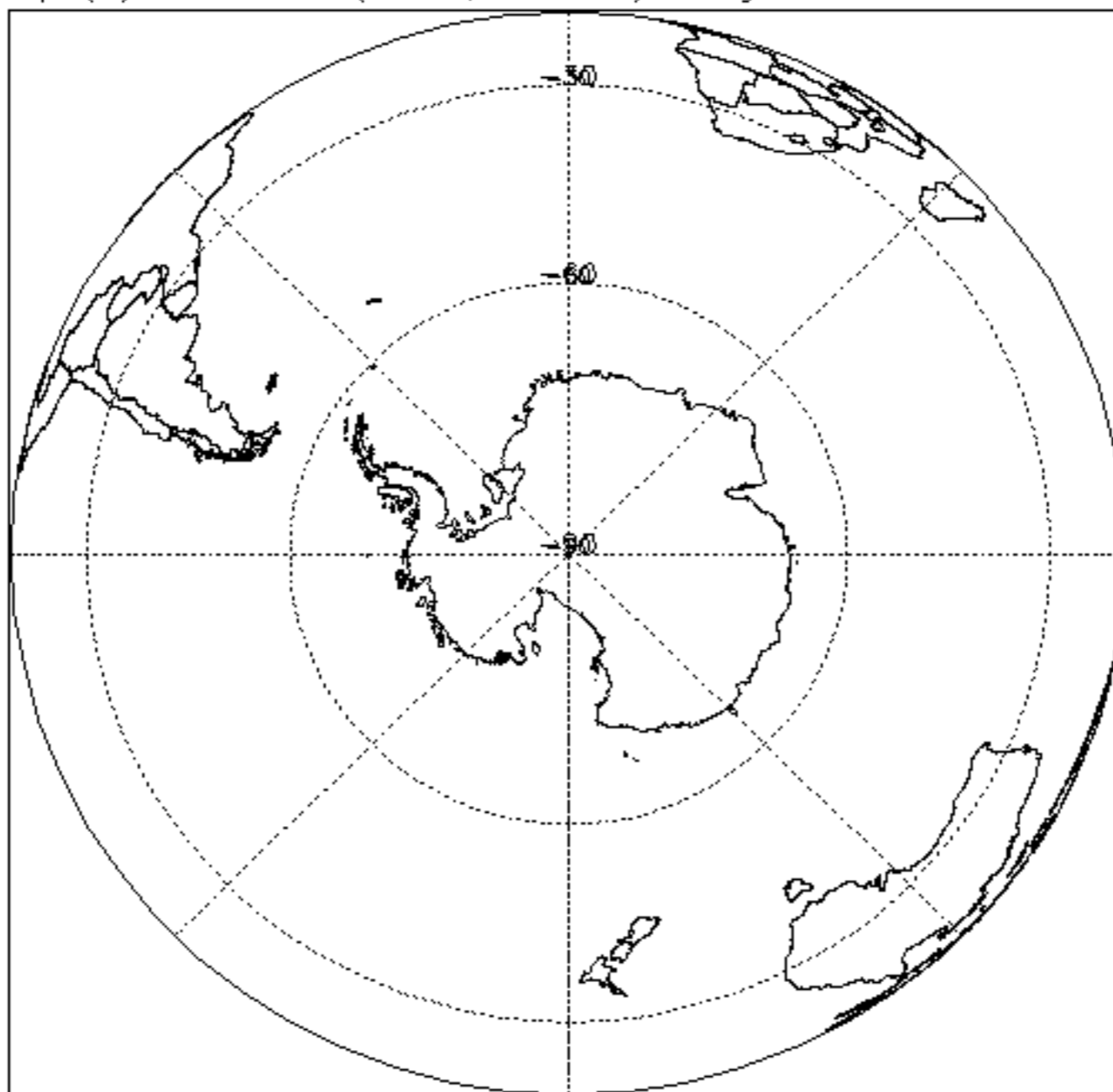
CH₄ (ppm) at: 490 K (19km, 55hPa). Daily mean: 24-JAN-2012



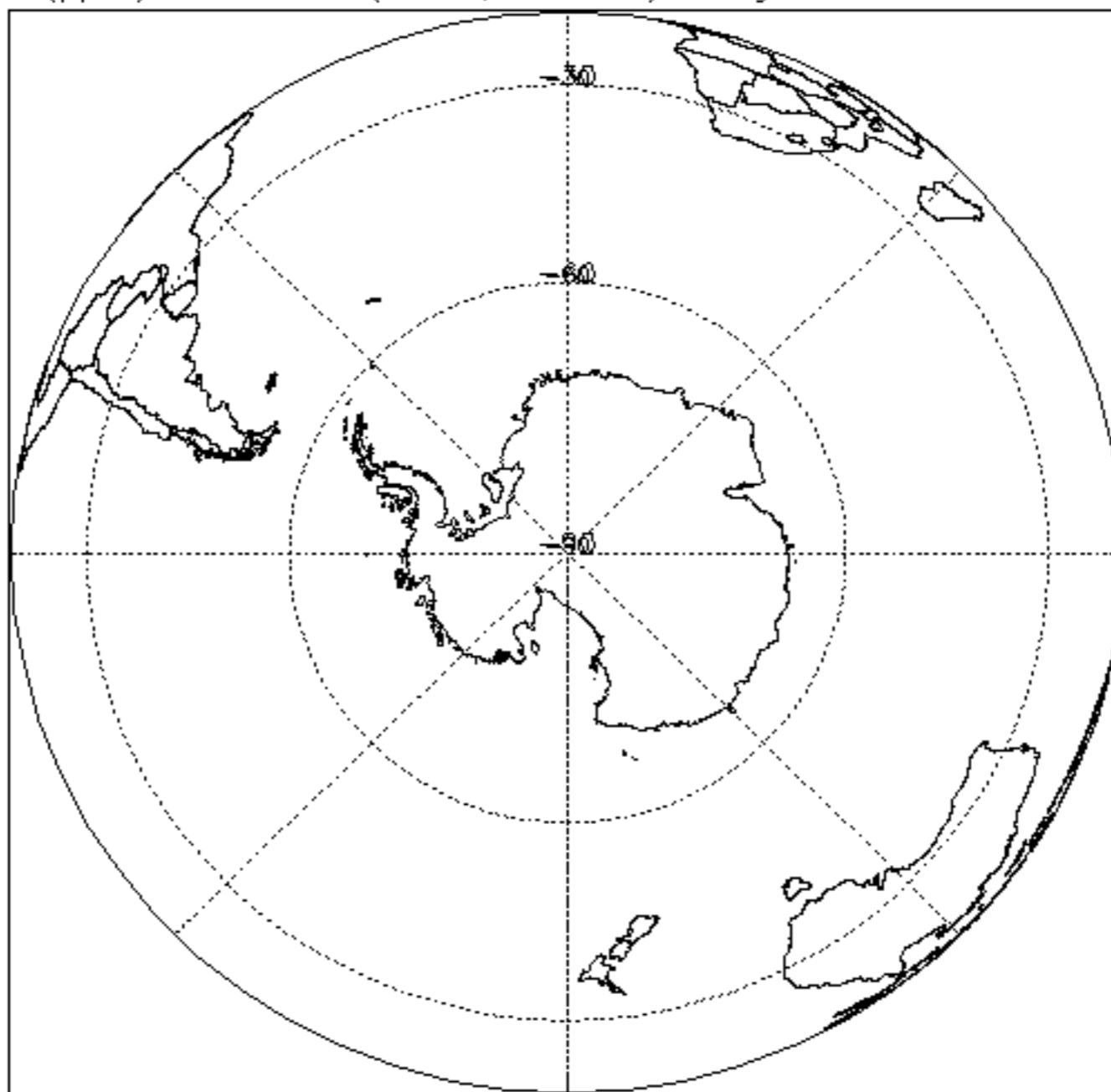
N₂O (ppb) at: 490 K (19km, 55hPa). Daily mean: 24-JAN-2012



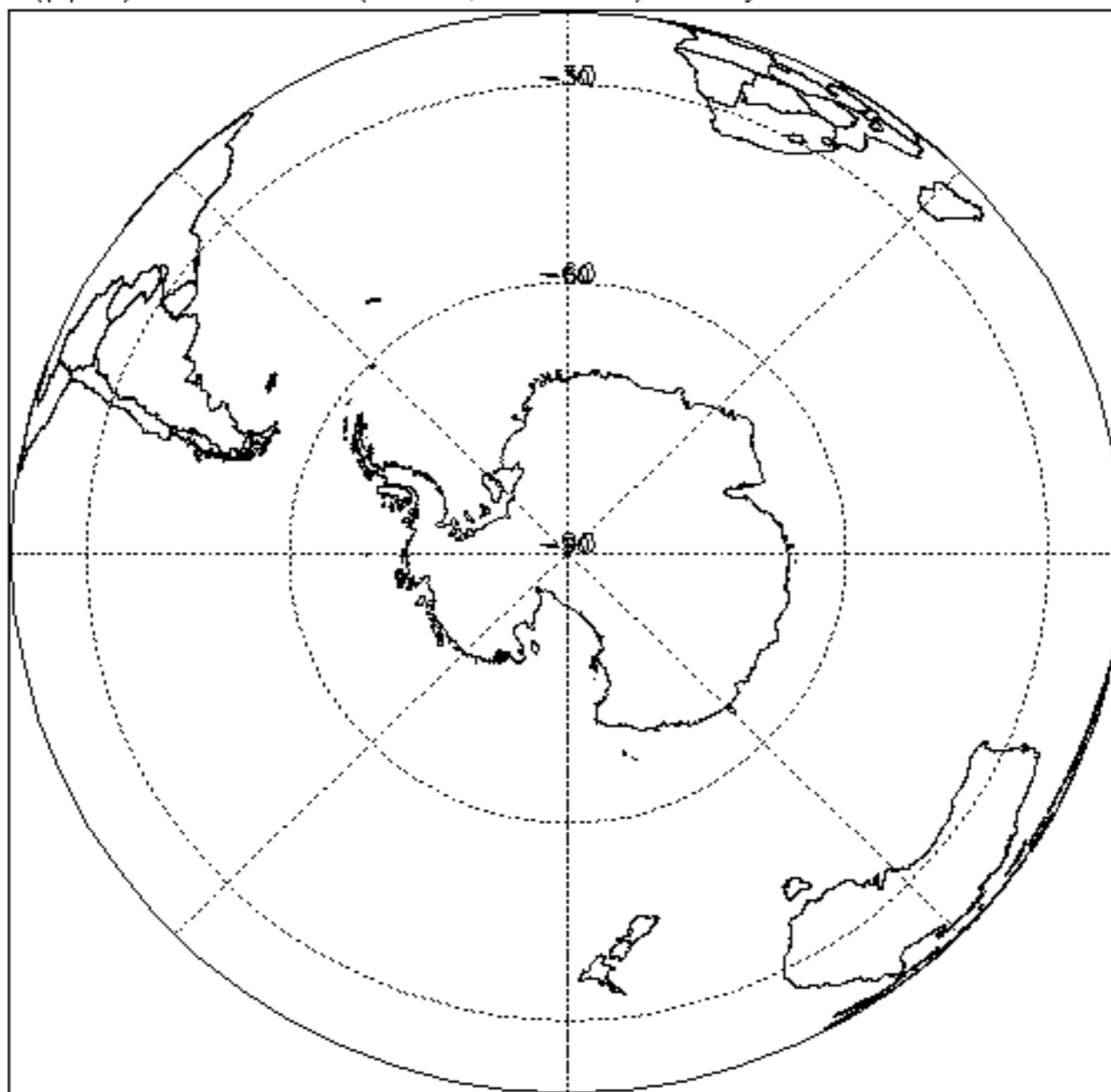
Temp (K) at: 410 K (16km, 100hPa). Daily mean: 24-JAN-2012



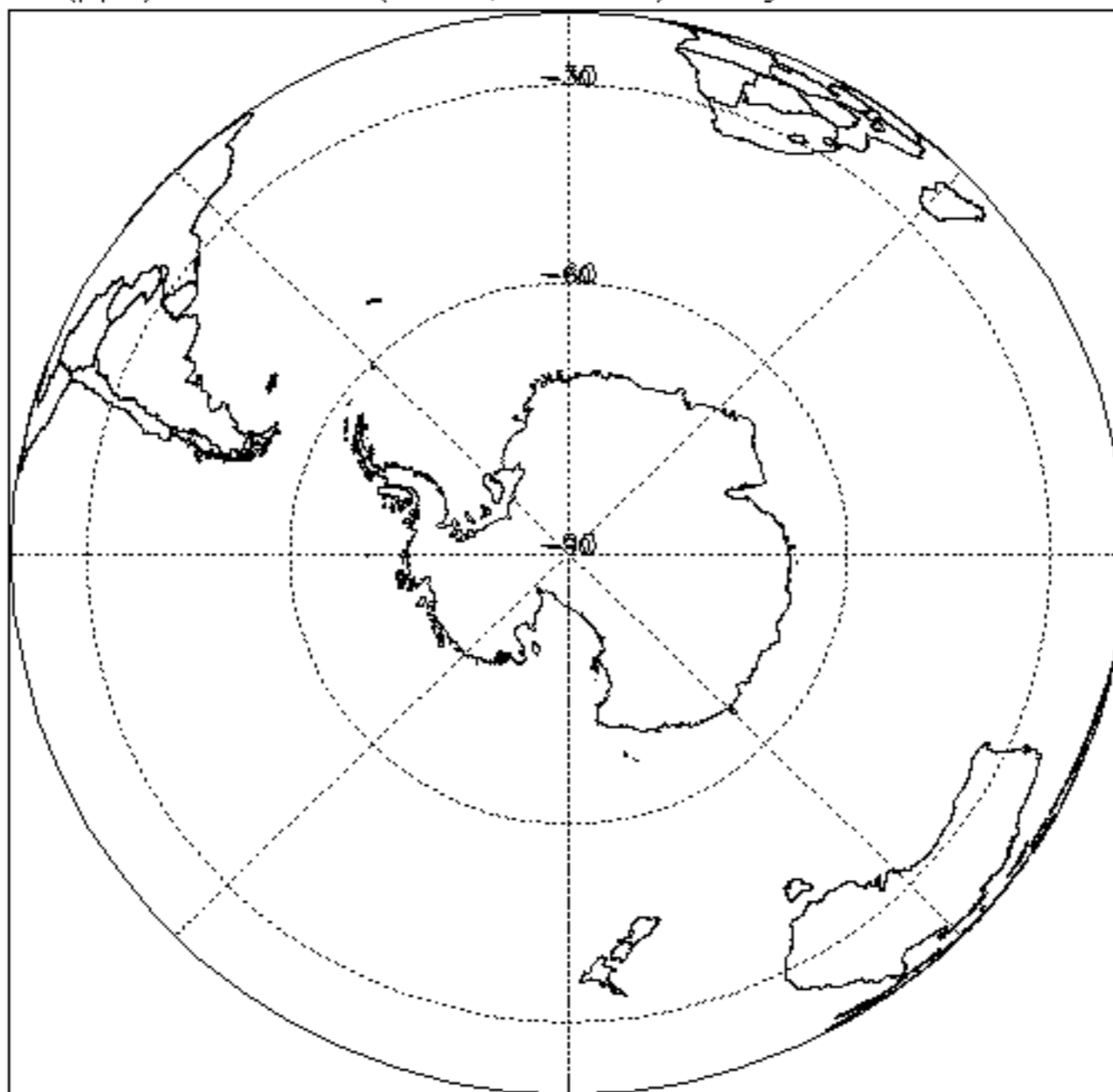
H₂O (ppm) at: 410 K (16km, 100hPa). Daily mean: 24-JAN-2012



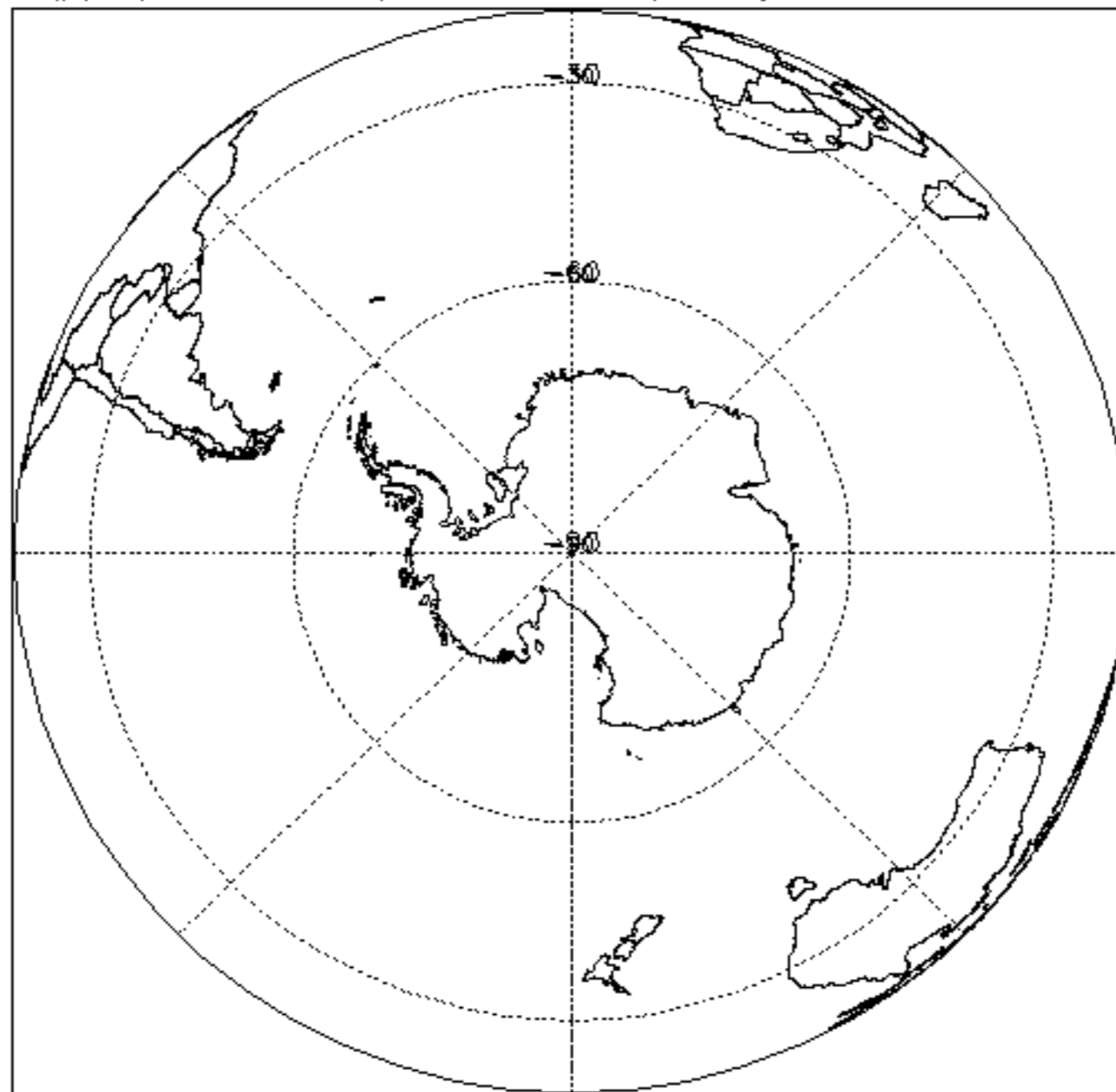
O₃ (ppm) at: 410 K (16km, 100hPa). Daily mean: 24-JAN-2012



HNO₃ (ppb) at: 410 K (16km, 100hPa). Daily mean: 24-JAN-2012



CH₄ (ppm) at: 410 K (16km, 100hPa). Daily mean: 24-JAN-2012



N₂O (ppb) at: 410 K (16km, 100hPa). Daily mean: 24-JAN-2012

