

MIPAS maps of mean distribution: 30-DEC-2011

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.

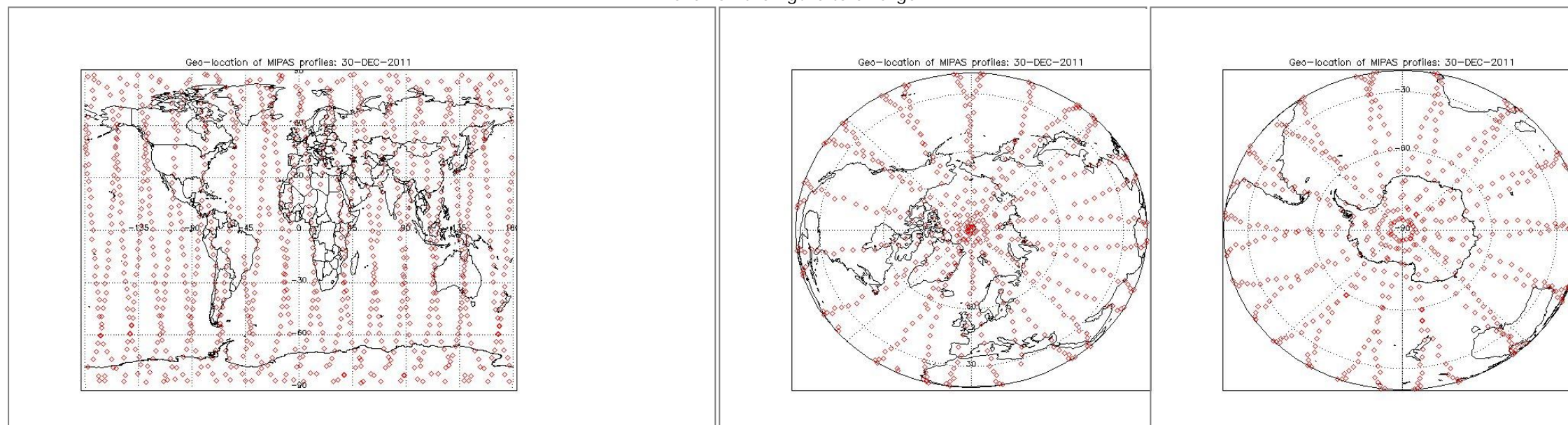
Note that Upper and Middle Atmosphere measurements are only retrieved up to 70km.

Total Number of profiles: 1110

Retrieved Parameter	Profiles not reaching convergence (%)	Profiles exceeding chi2 threshold (%)
p-T	7.84	9.01
H2O	7.84	1.17
O3	7.84	0.27
HNO3	93.60	0.27
CH4	7.84	1.08
N2O	8.02	1.26
NO2	8.20	7.30

Geo-location of MIPAS profiles

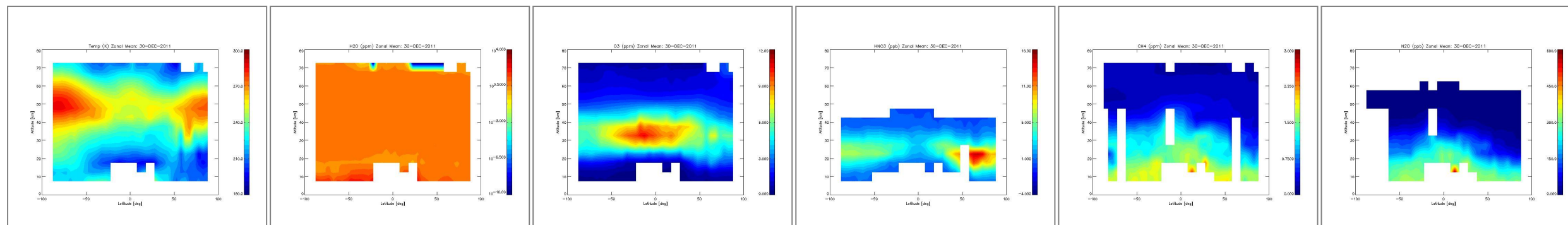
Click on the figure to enlarge



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

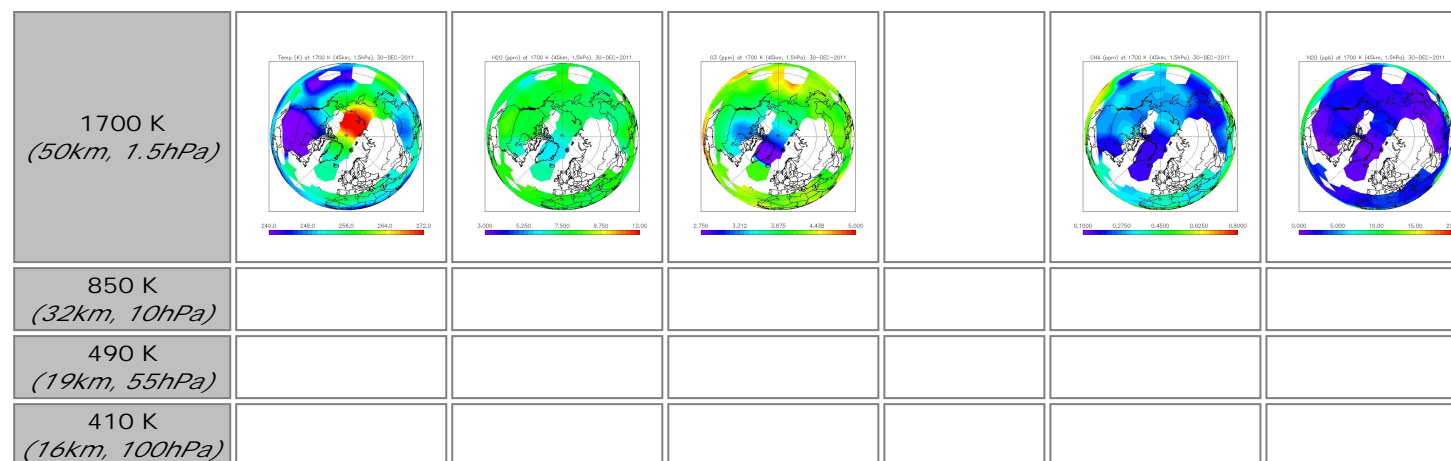
	Temp (K)	H2O (ppm)	O3 (ppm)	HNO3 (ppb)	CH4 (ppm)	N2O (ppb)
2700 K (60km, 0.2hPa)						
1700 K (50km, 1.5hPa)						
850 K (32km, 10hPa)						
490 K (19km, 55hPa)						
410 K (16km, 100hPa)						

[Home](#)

Arctic distribution interpolated at different isentropic levels

Click on the figure to enlarge

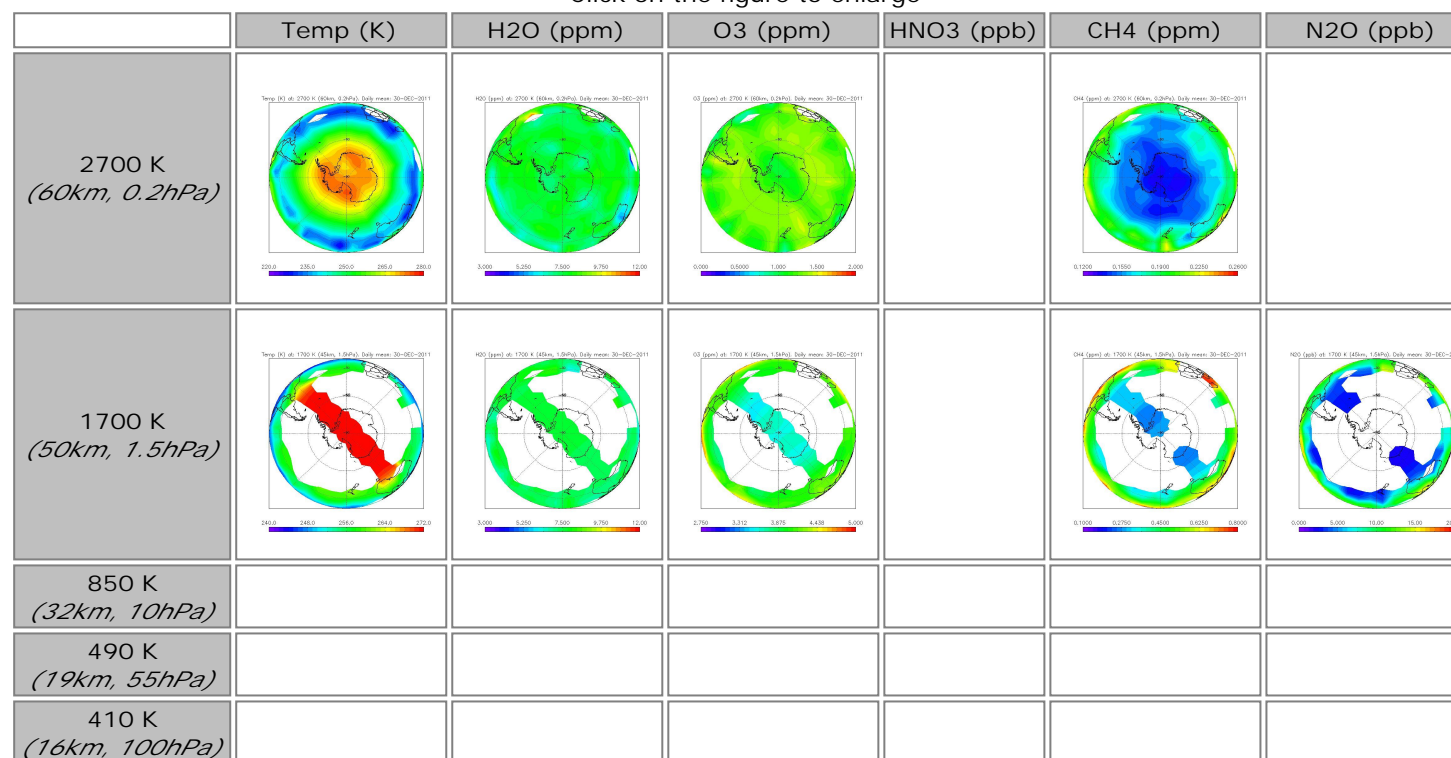
	Temp (K)	H2O (ppm)	O3 (ppm)	HNO3 (ppb)	CH4 (ppm)	N2O (ppb)
2700 K (60km, 0.2hPa)						



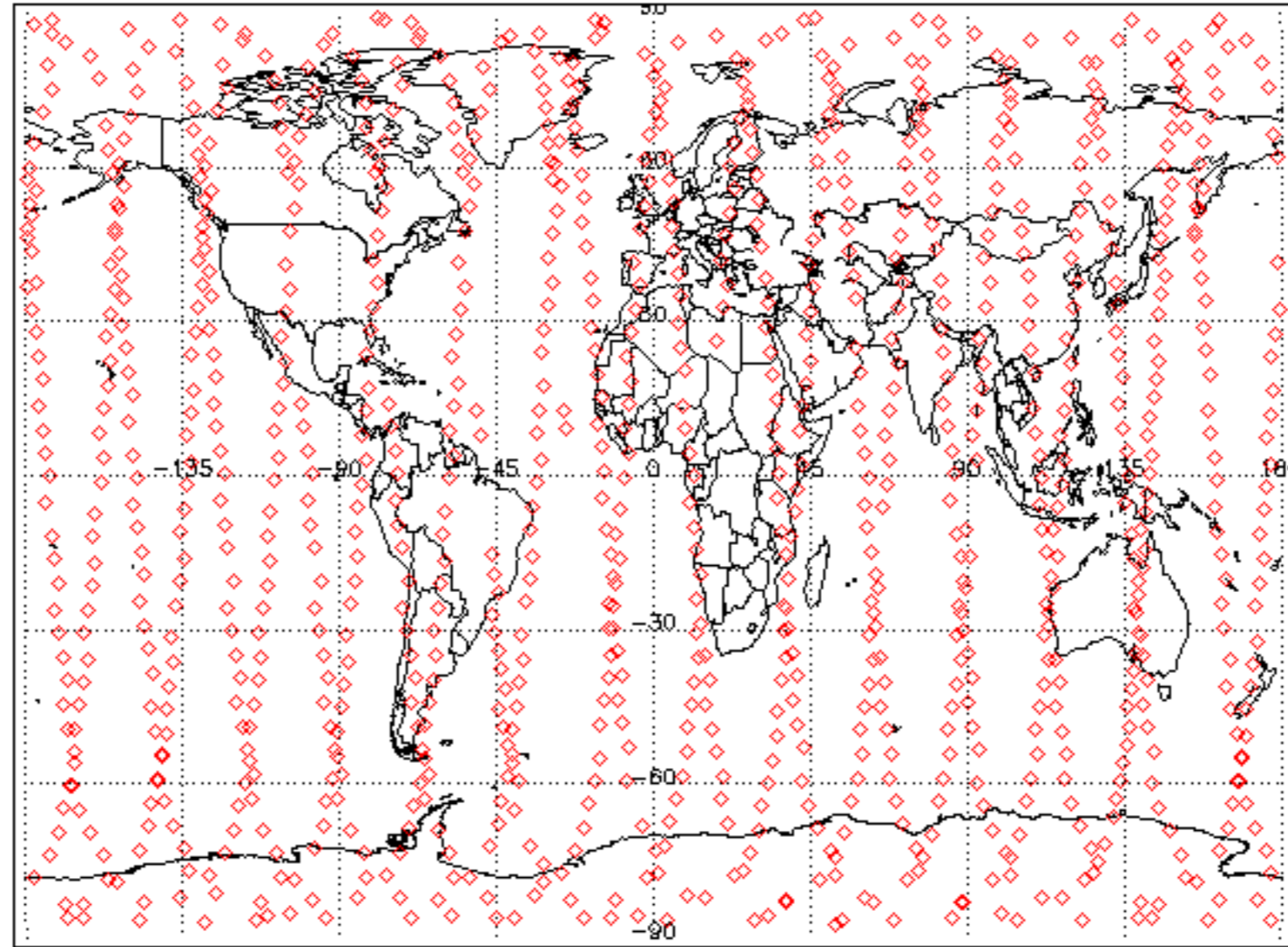
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Antarctic distribution interpolated at different isentropic levels

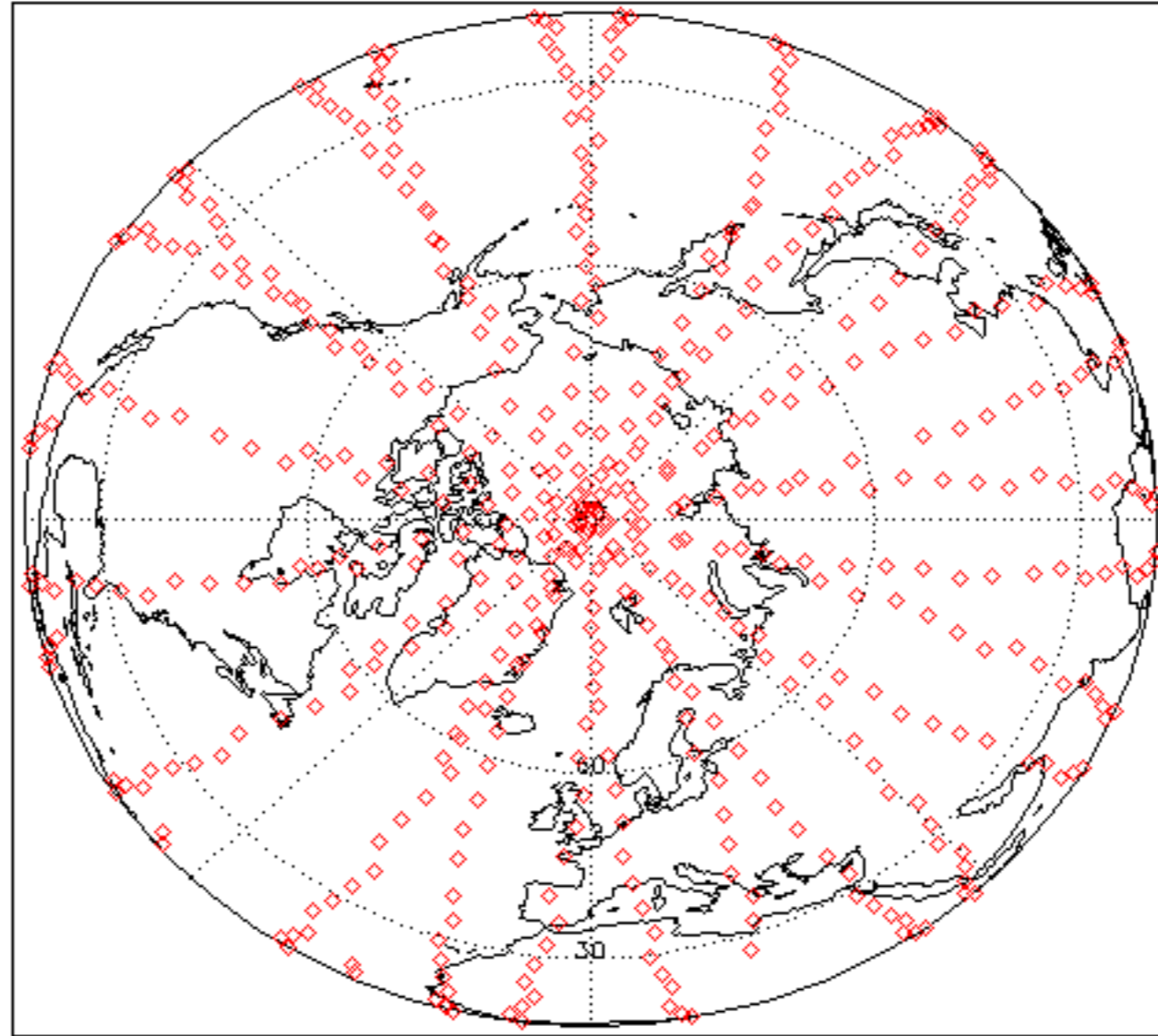
Click on the figure to enlarge



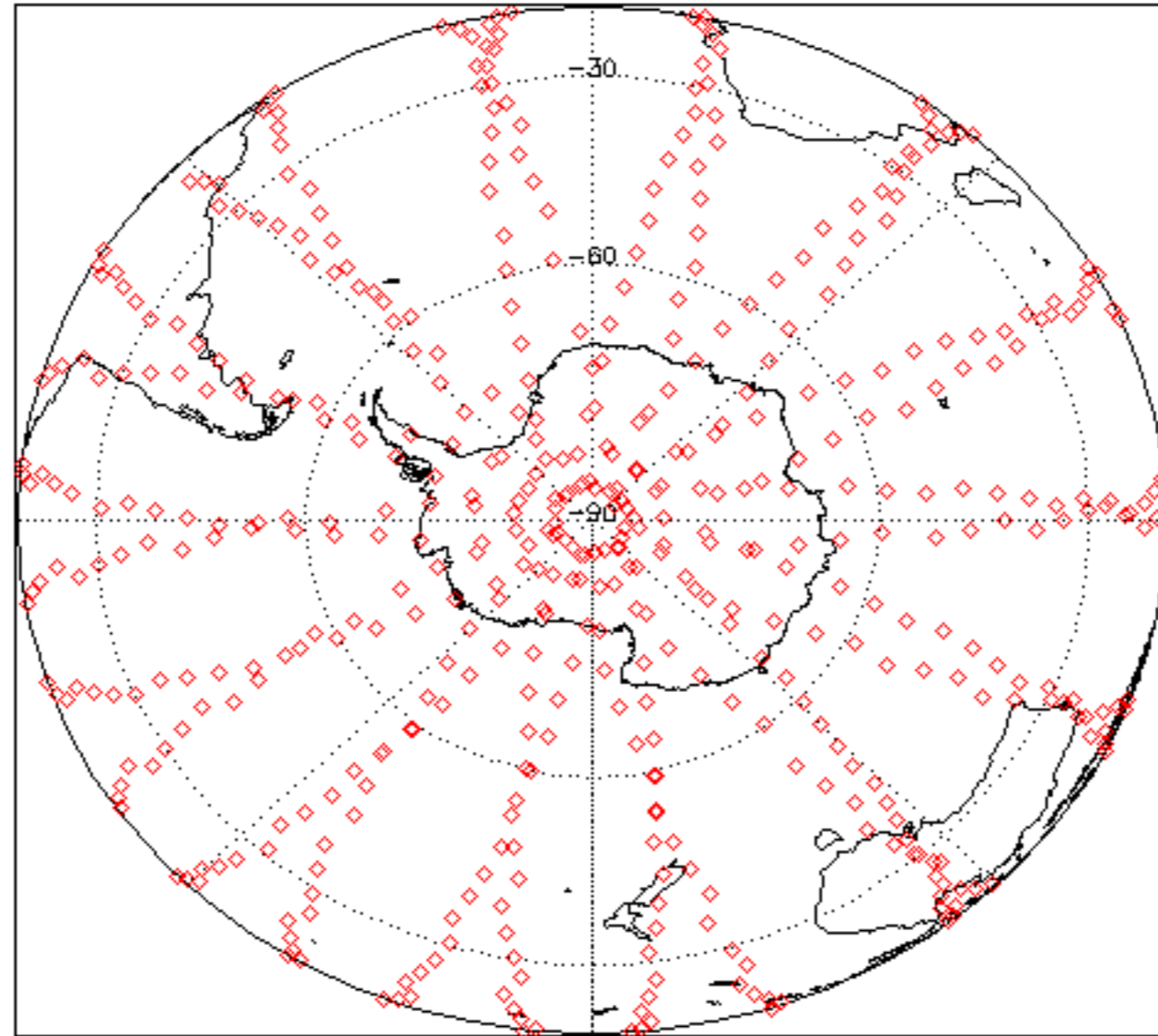
Geo-location of MIPAS profiles: 30-DEC-2011

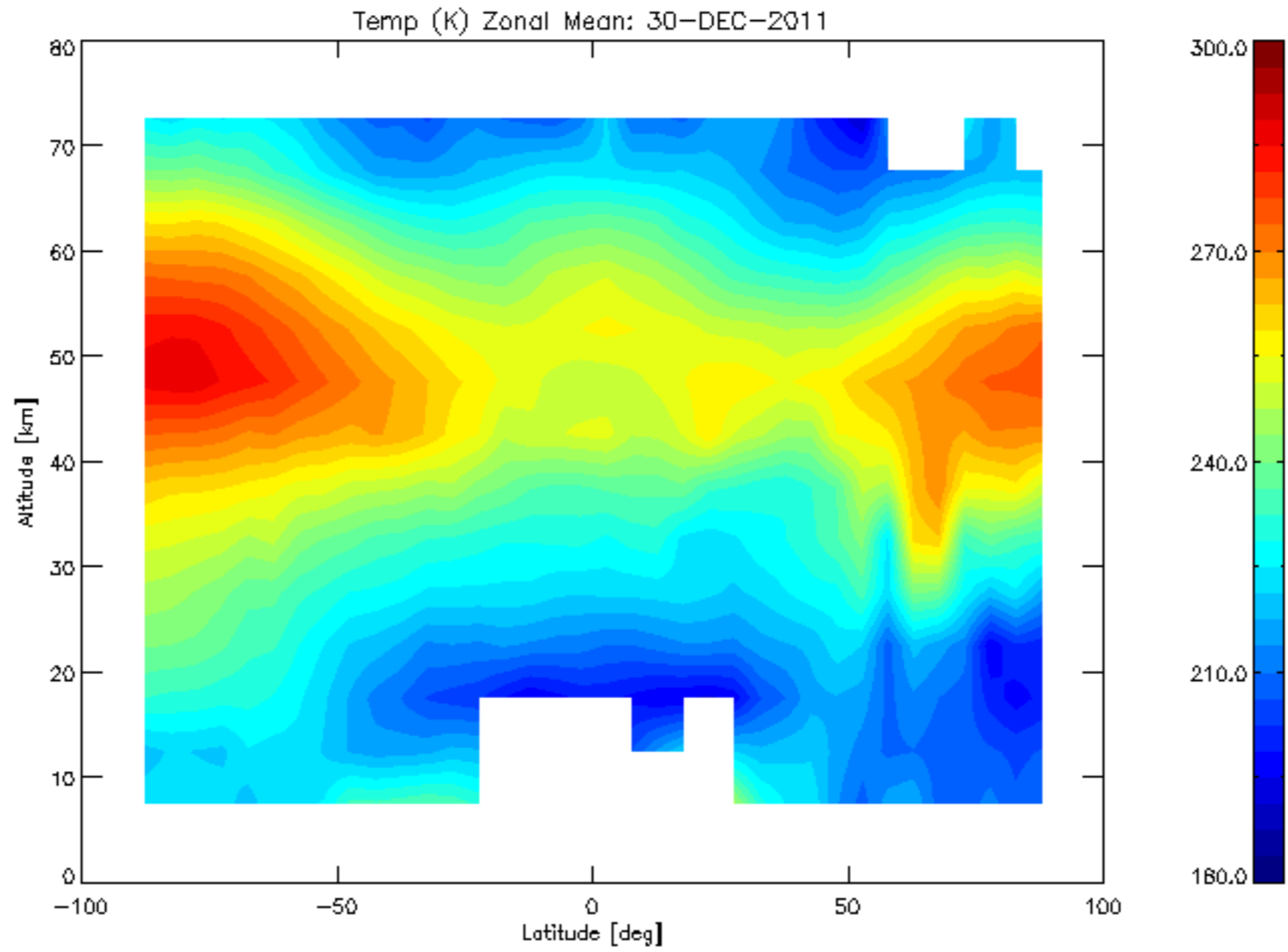


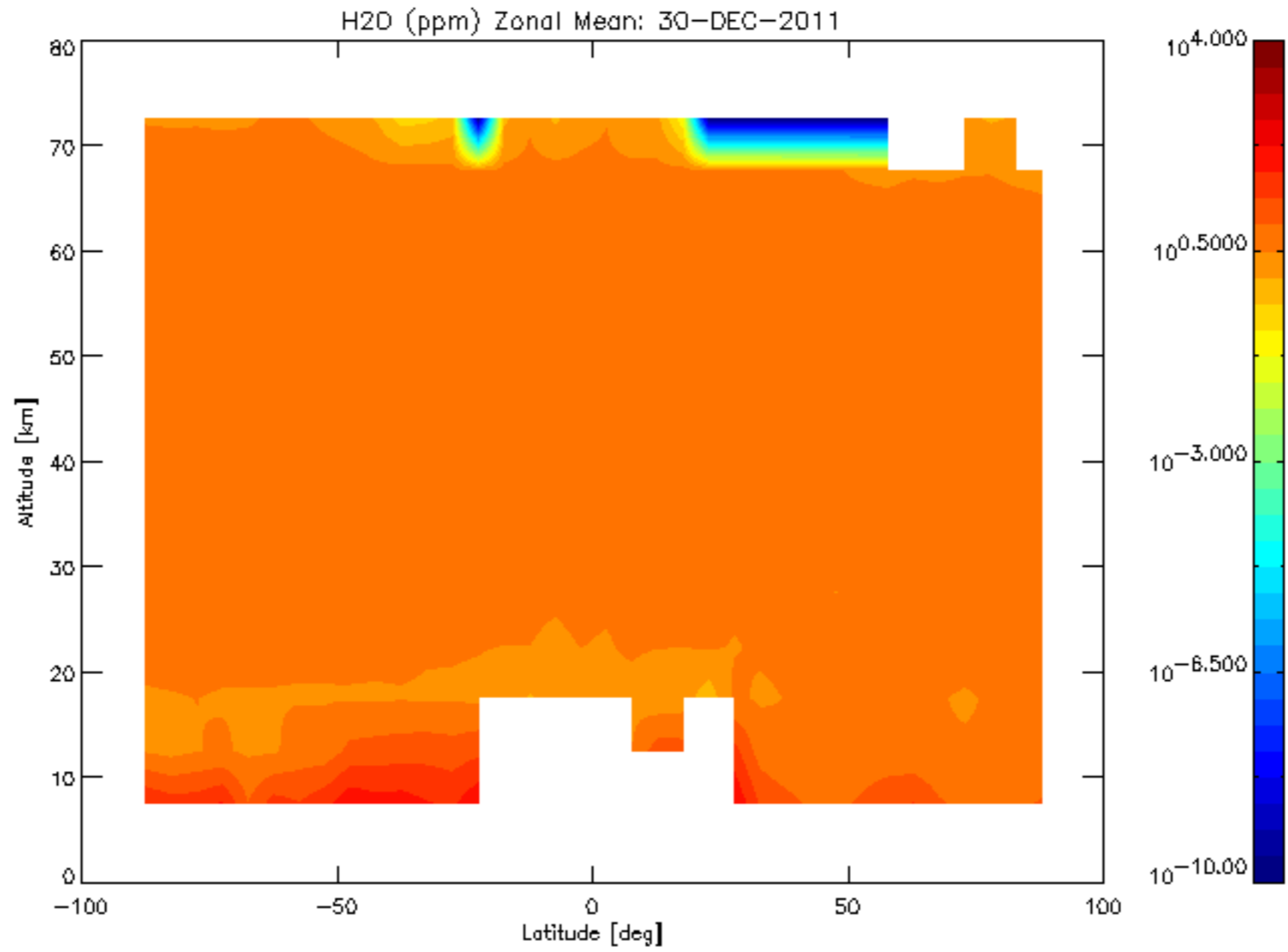
Geo-location of MIPAS profiles: 30-DEC-2011

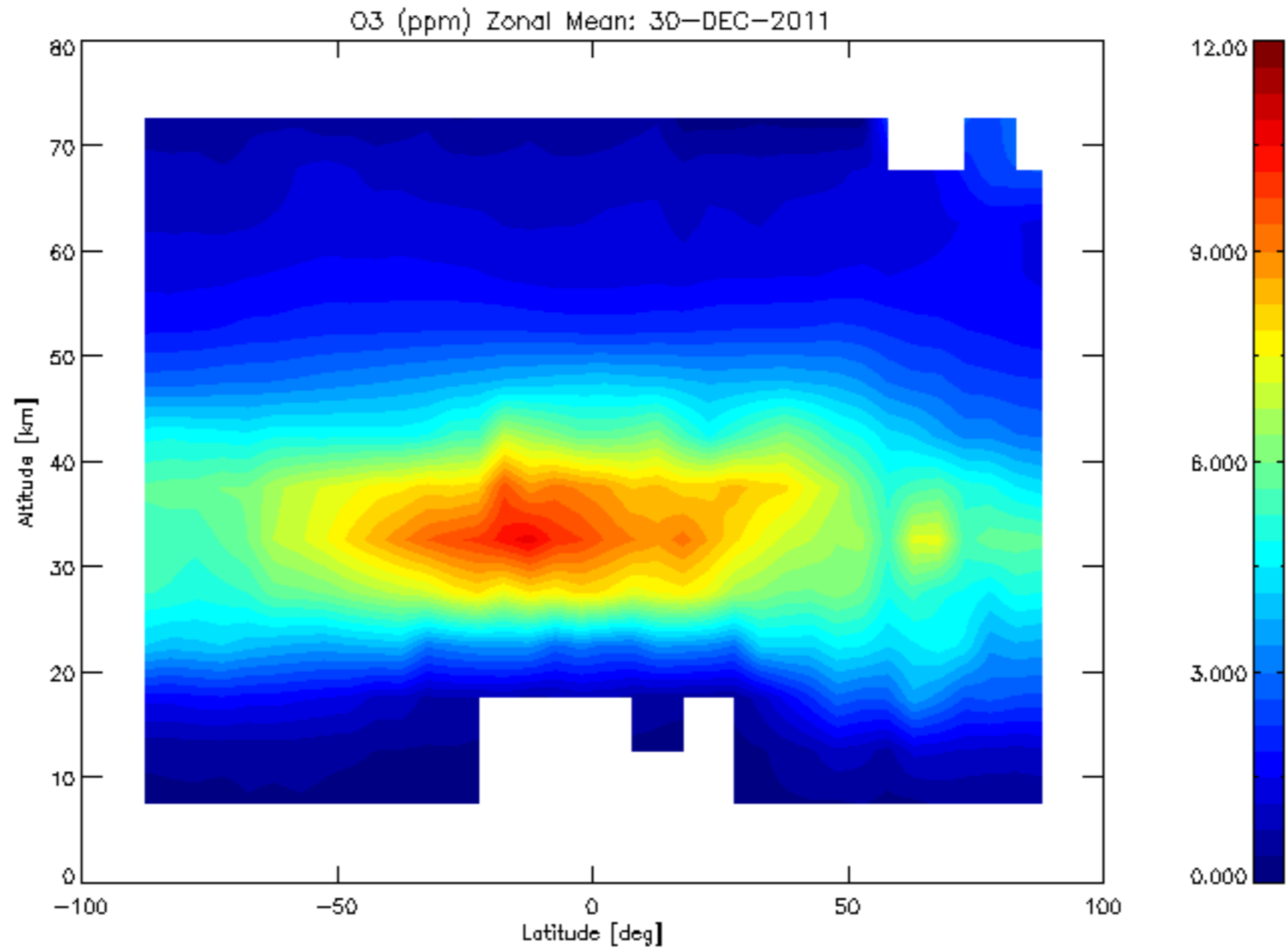


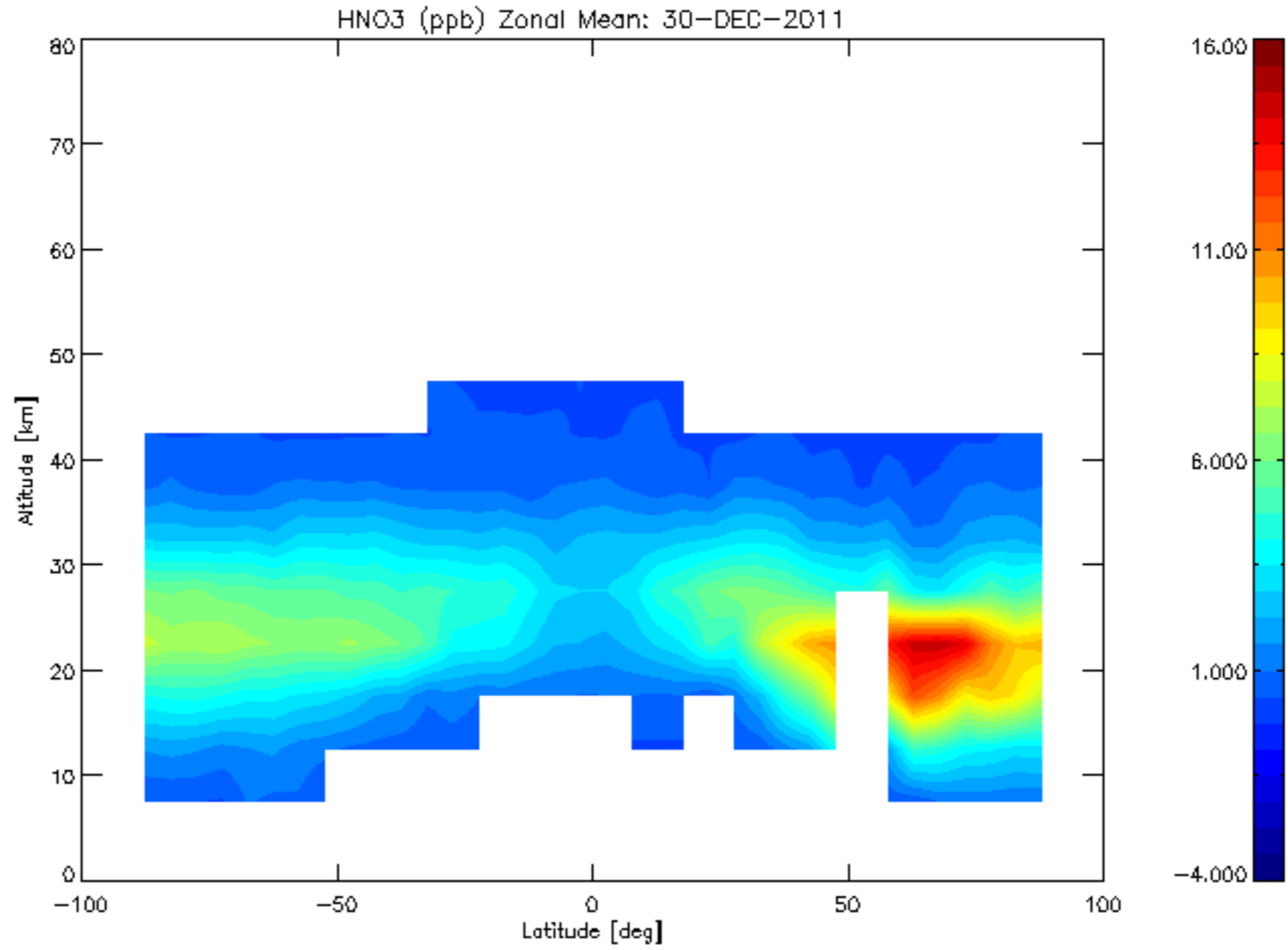
Geo-location of MIPAS profiles: 30-DEC-2011

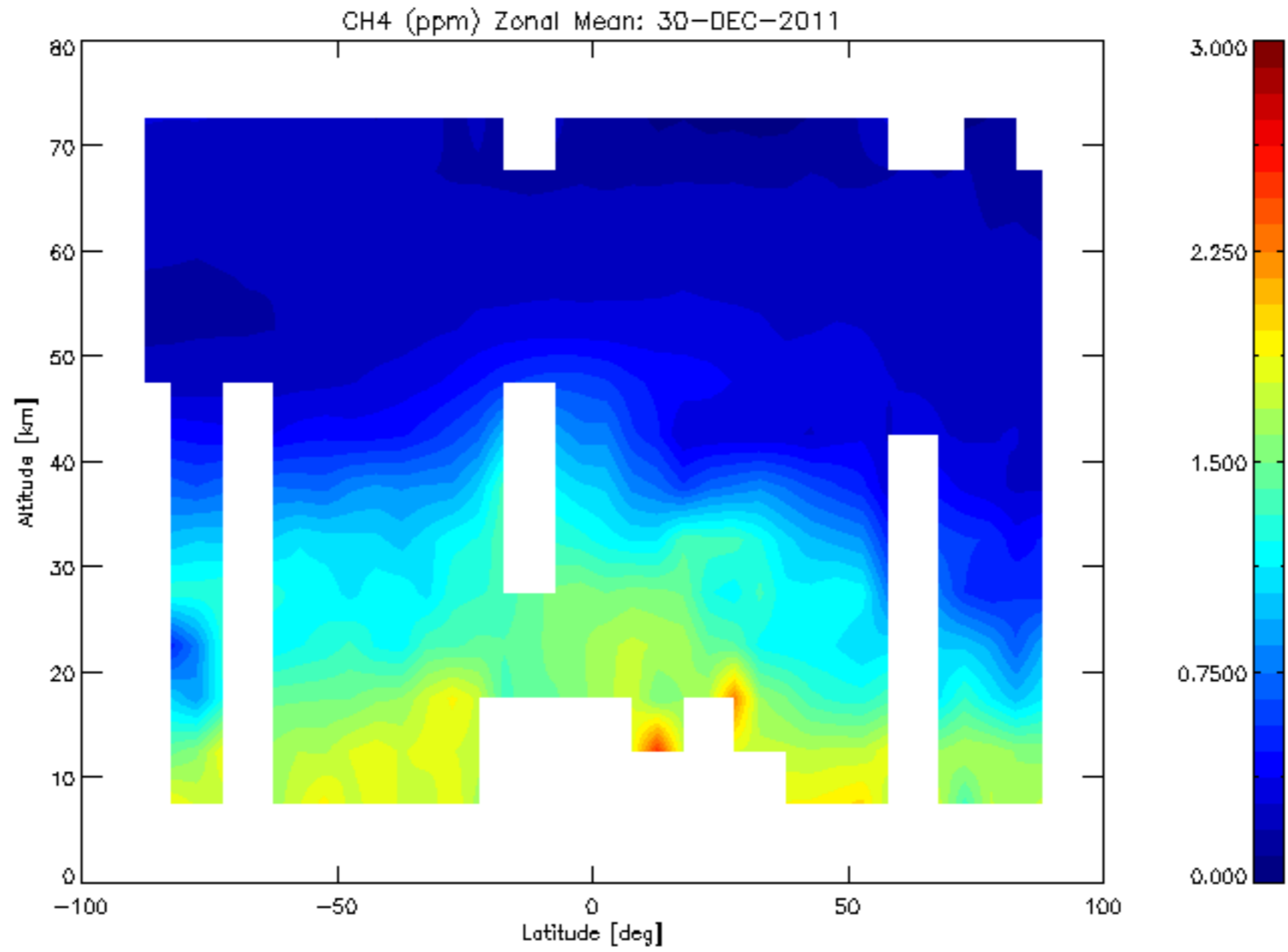


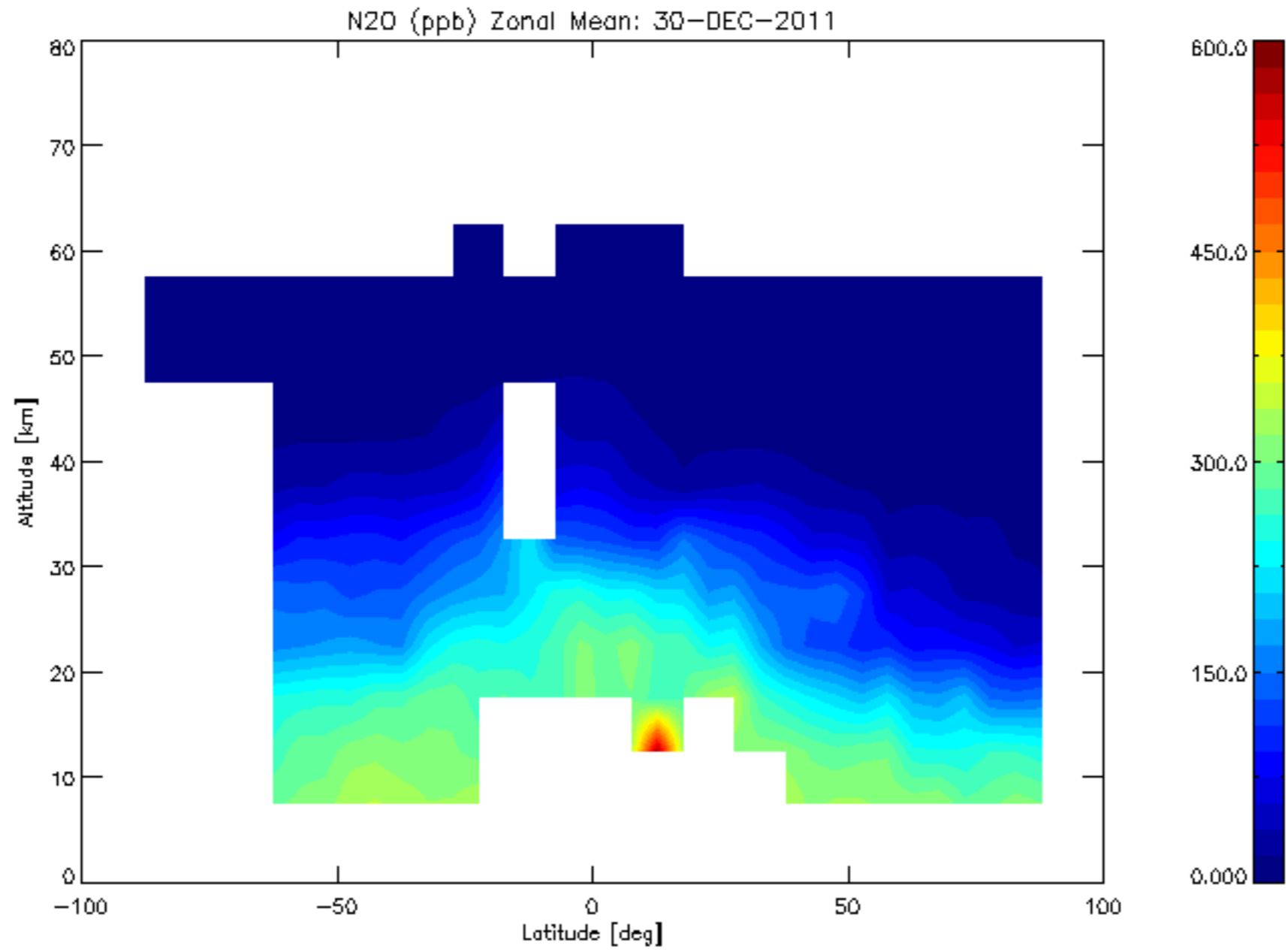




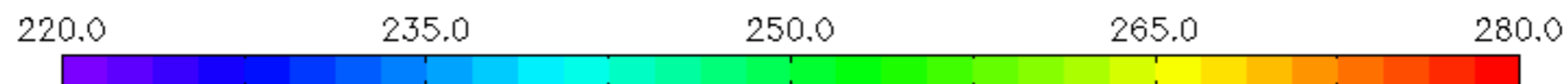
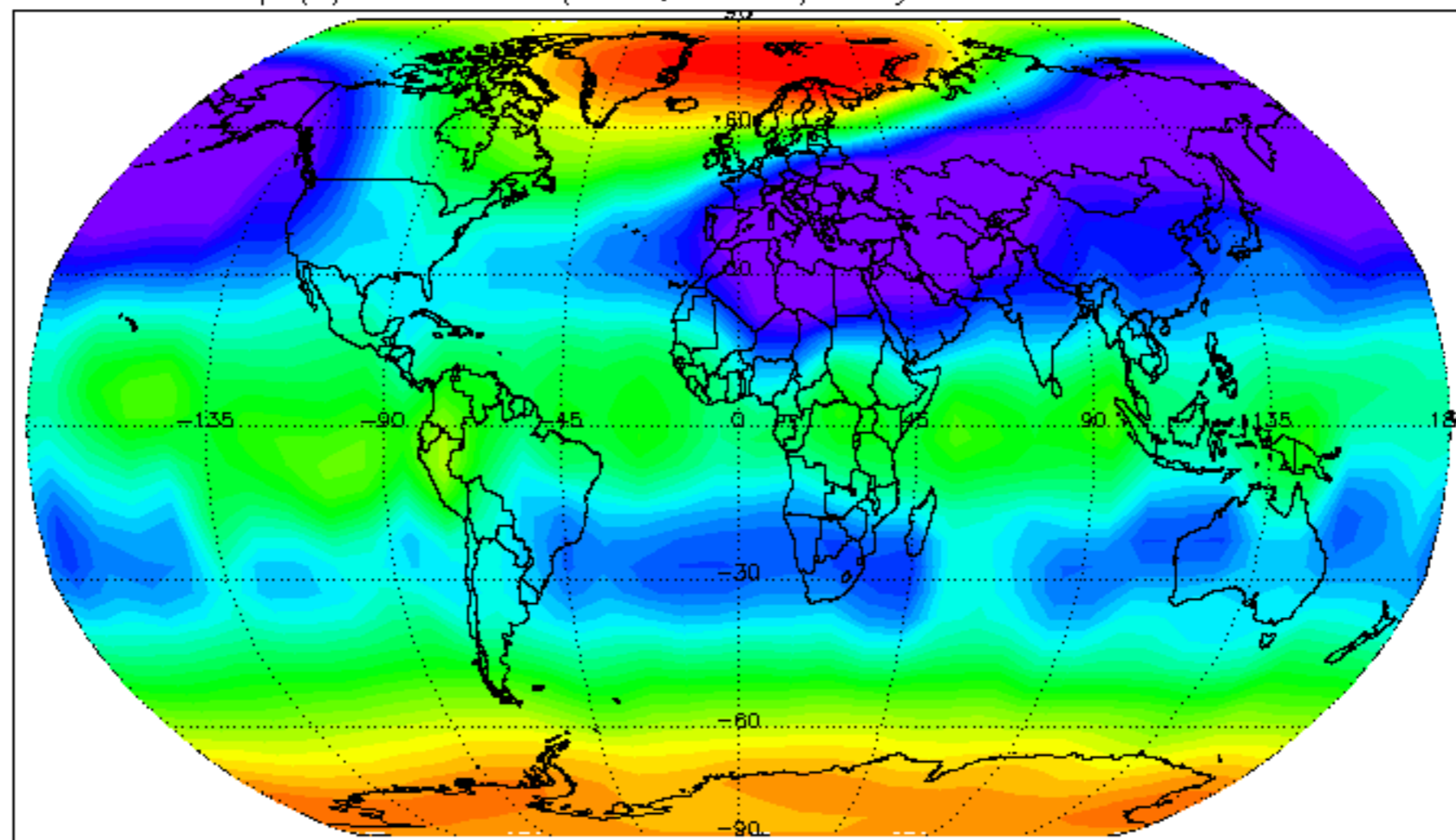




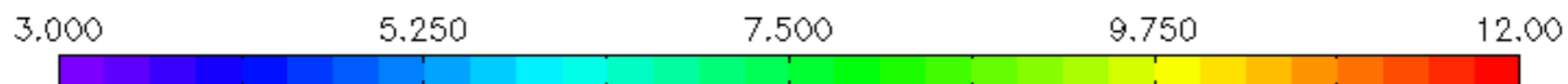
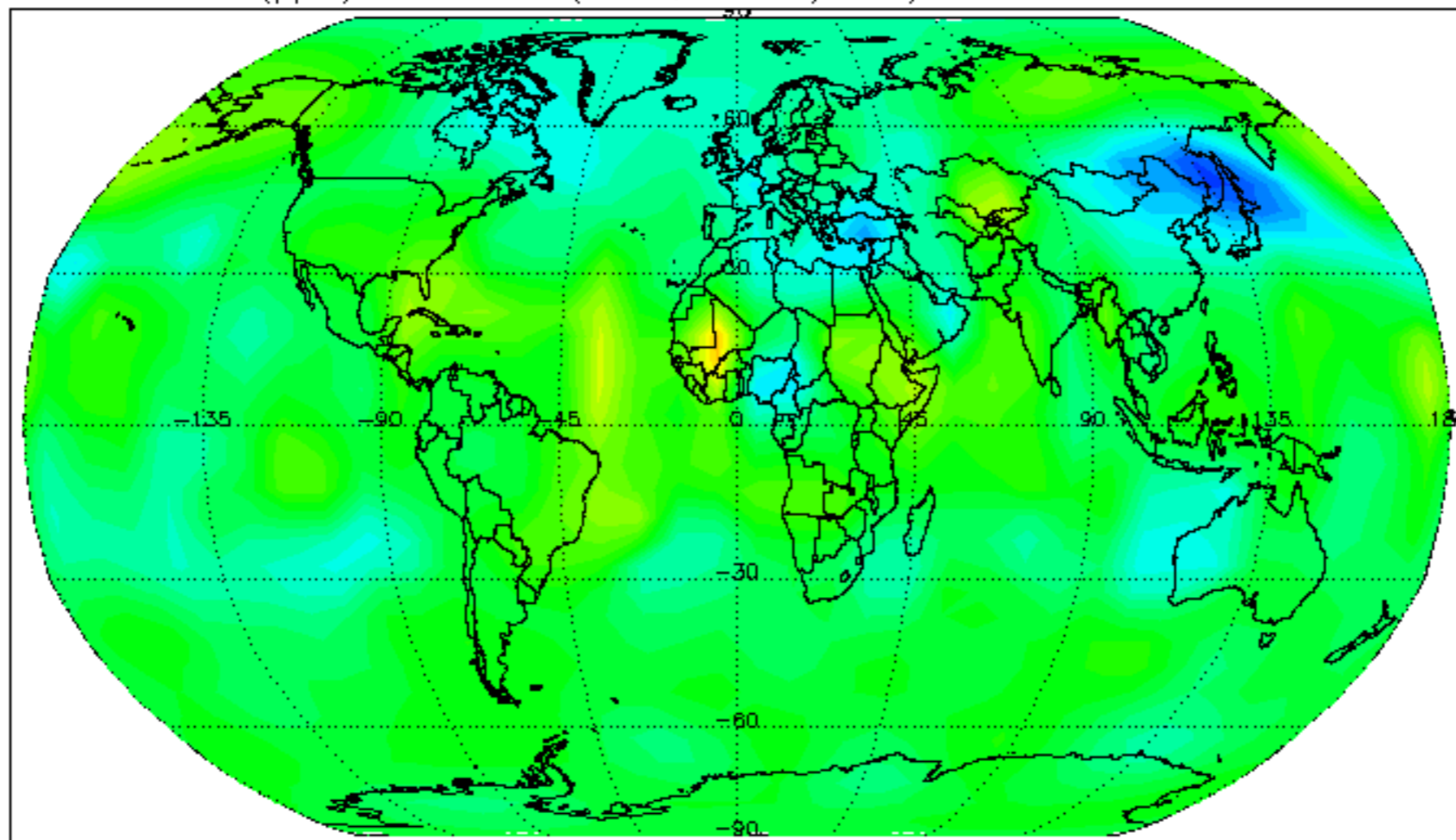




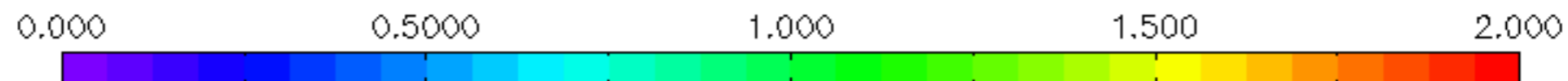
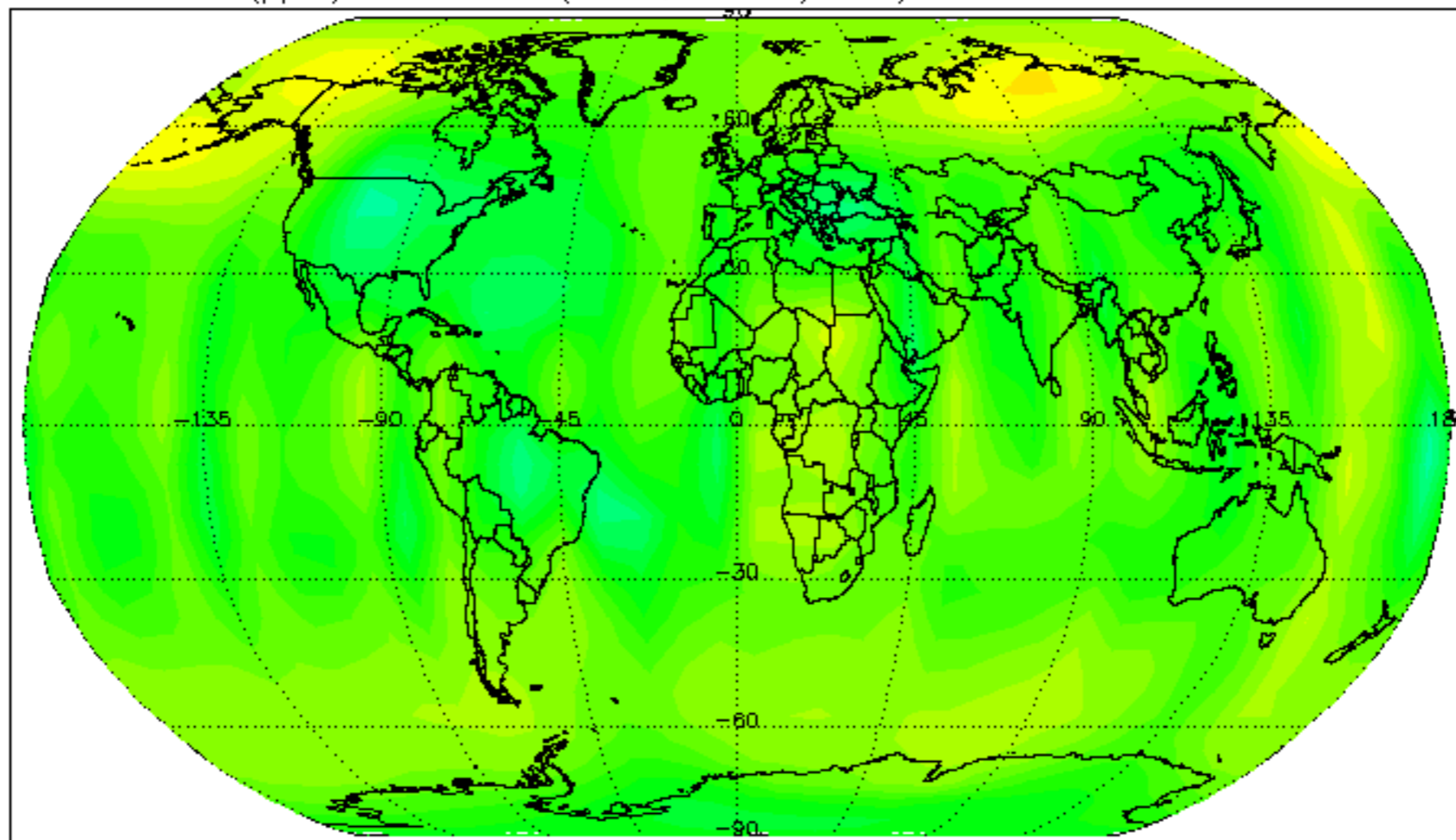
Temp (K) at: 2700 K (60km, 0.2hPa). Daily mean: 30-DEC-2011



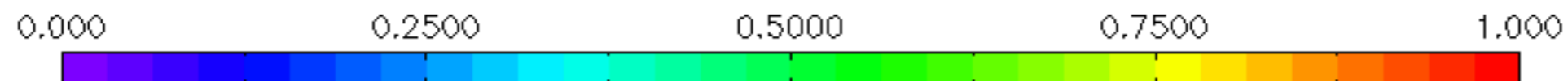
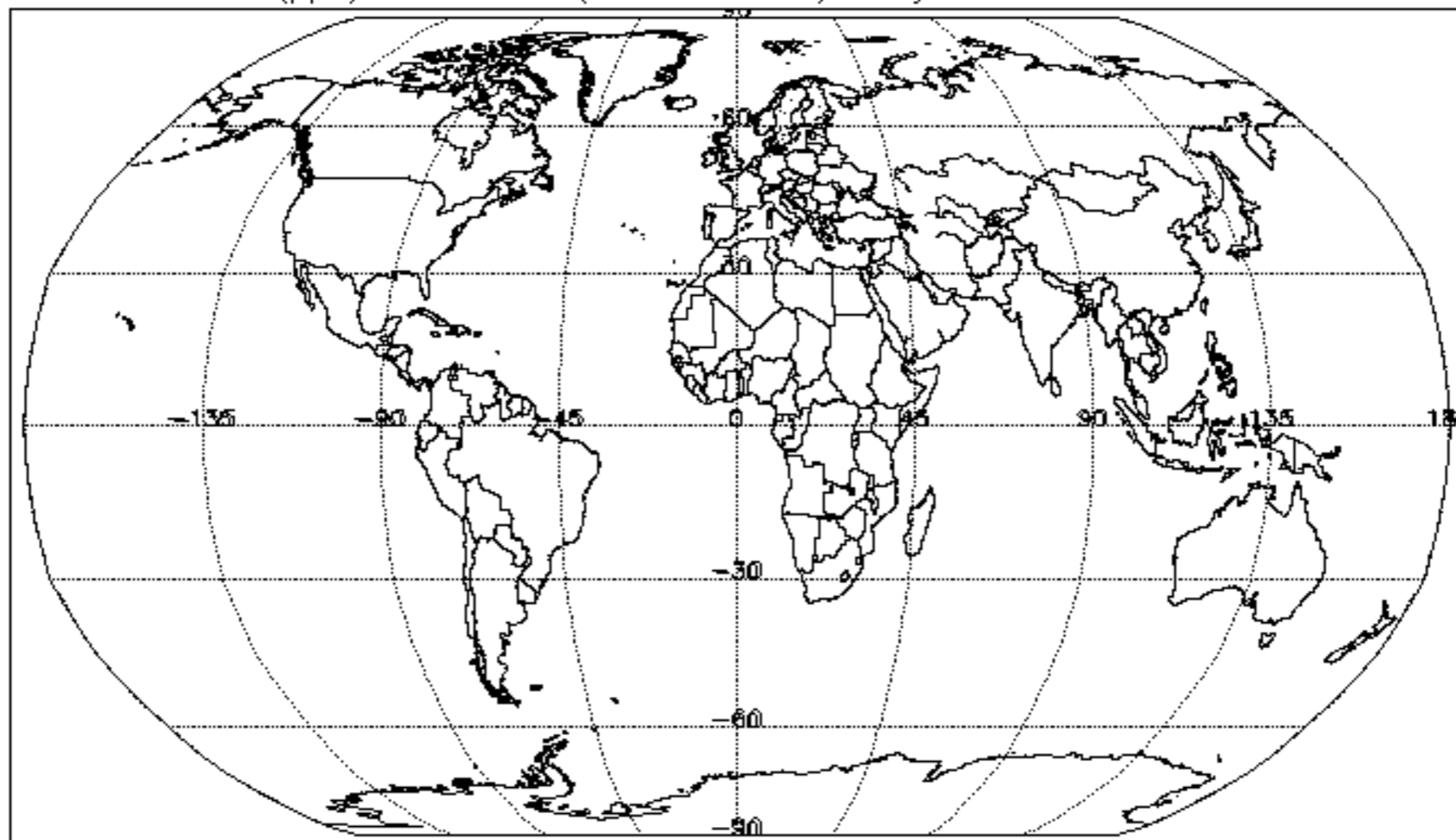
H₂O (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 30-DEC-2011



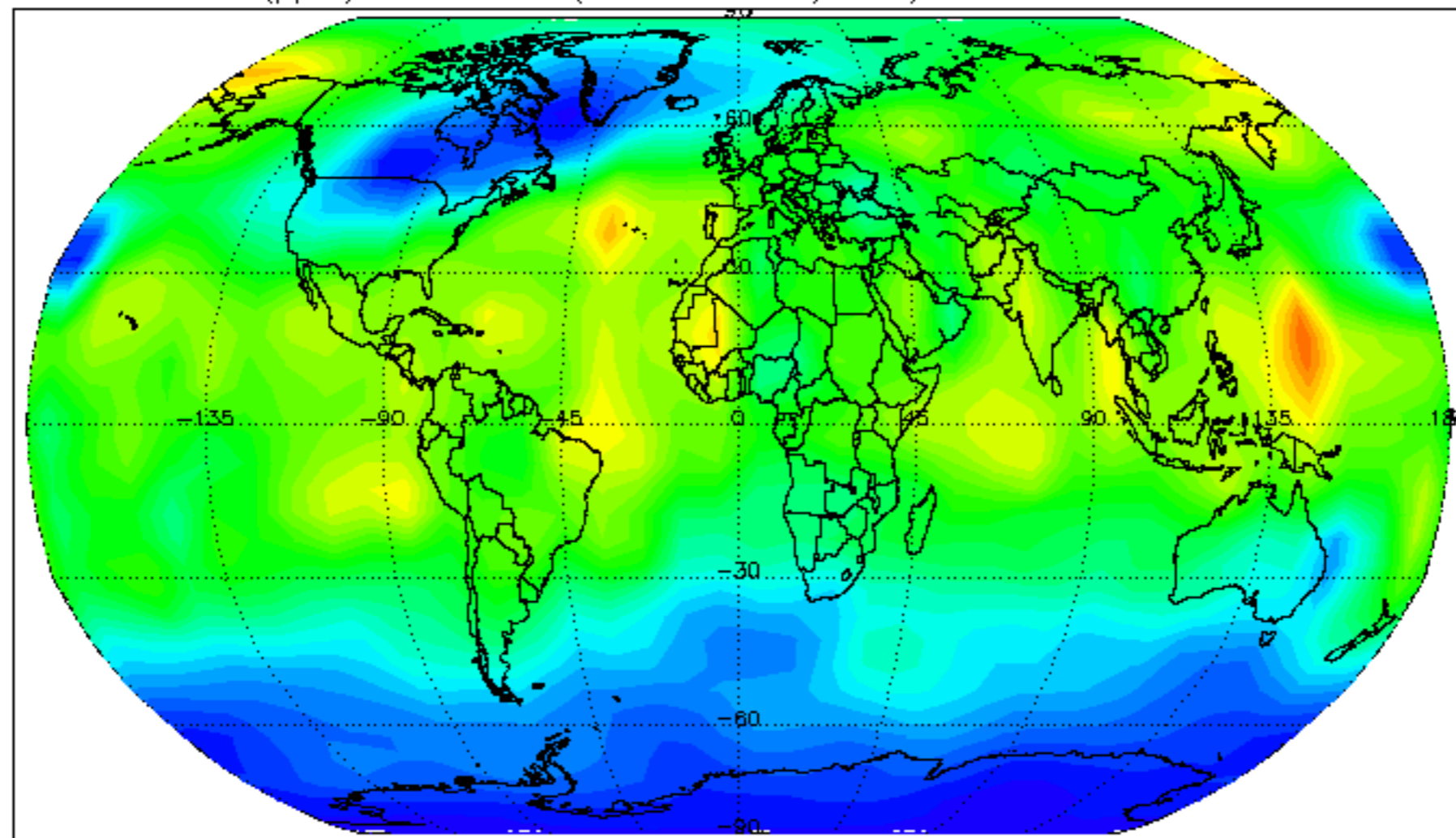
03 (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 30-DEC-2011



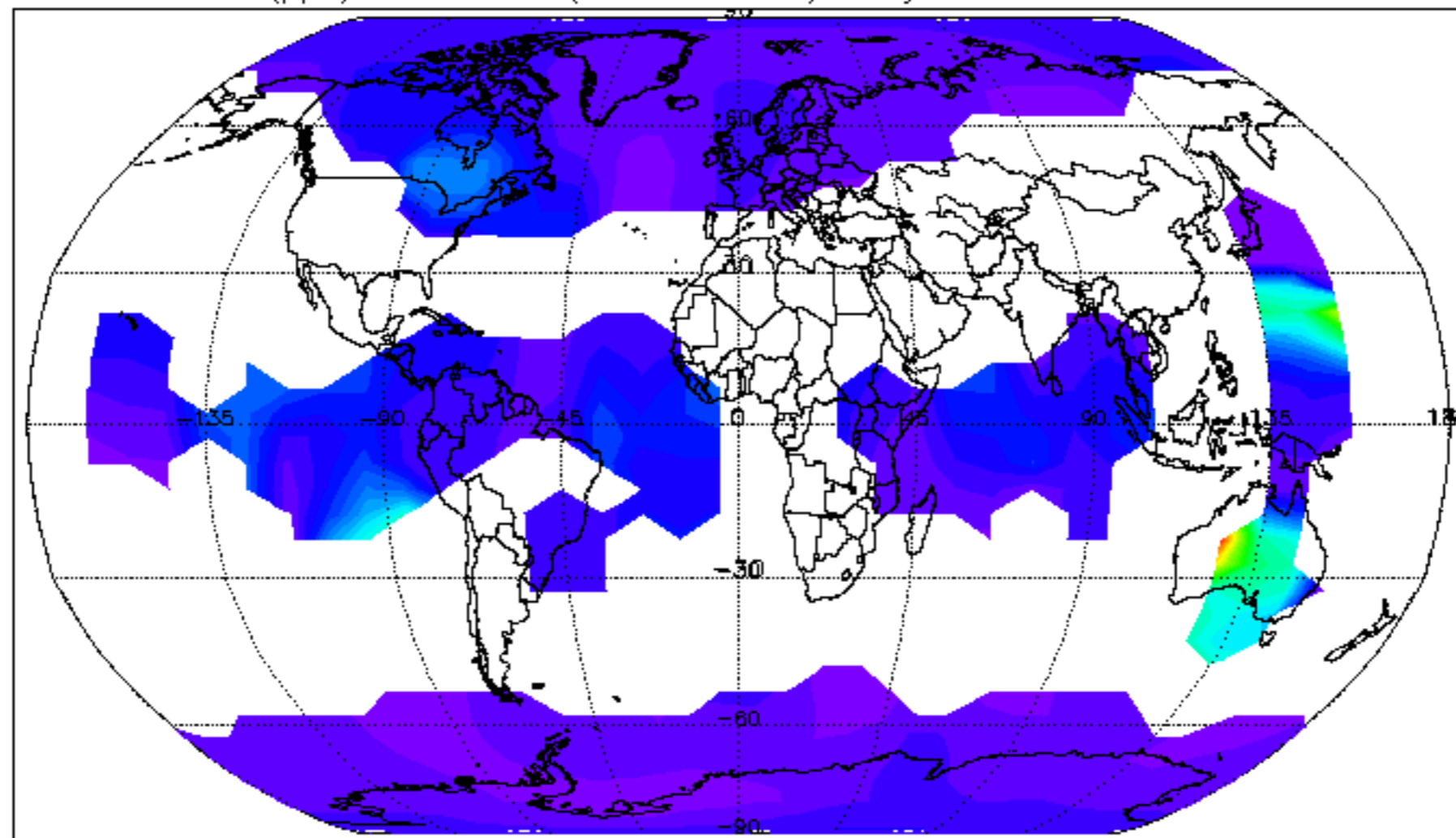
HN03 (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 30-DEC-2011



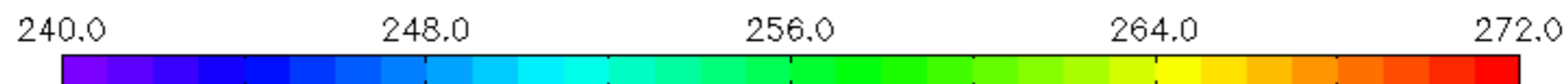
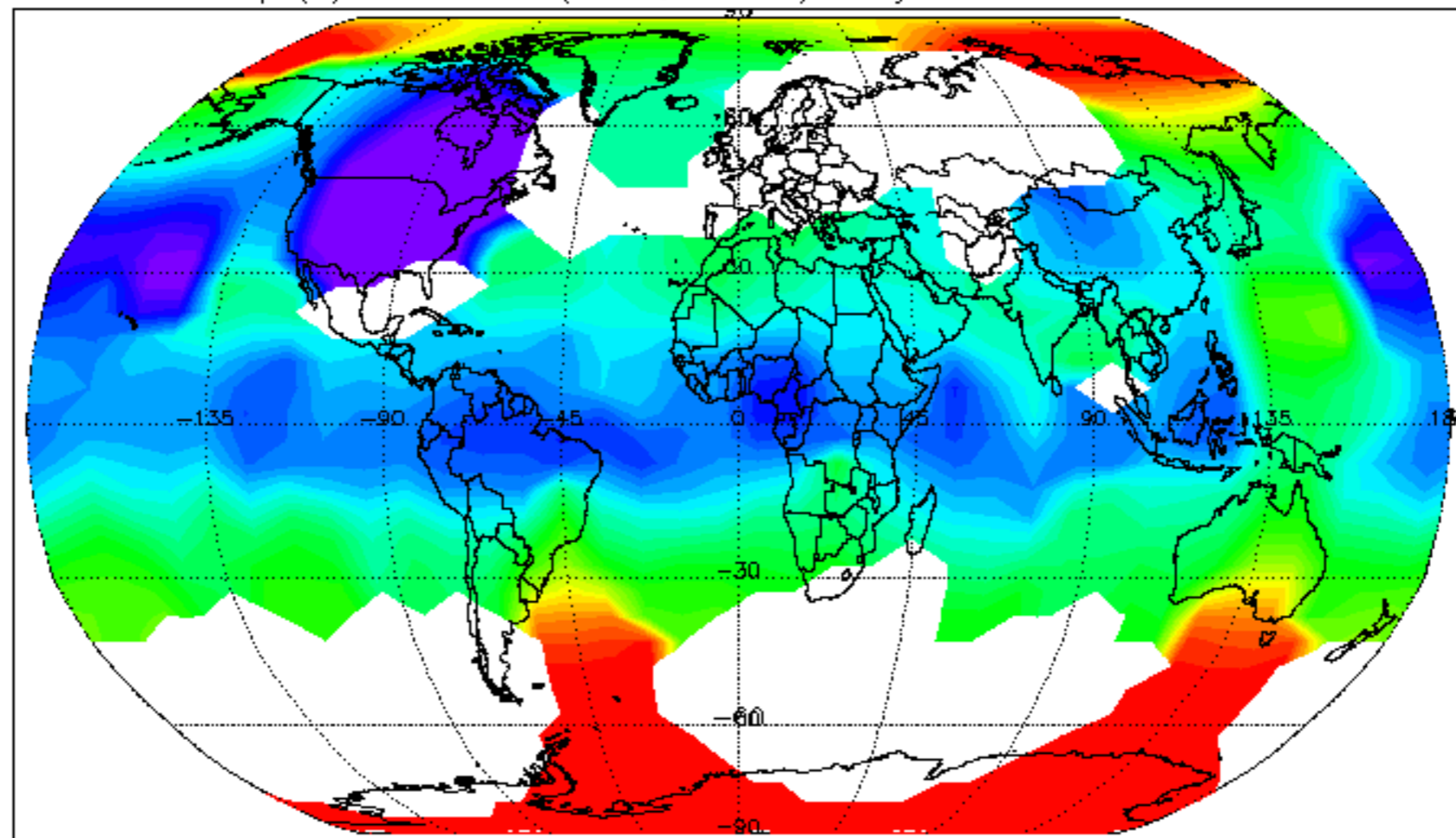
CH₄ (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 30-DEC-2011



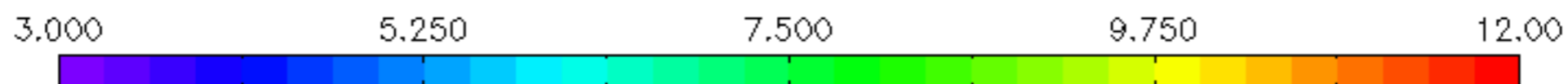
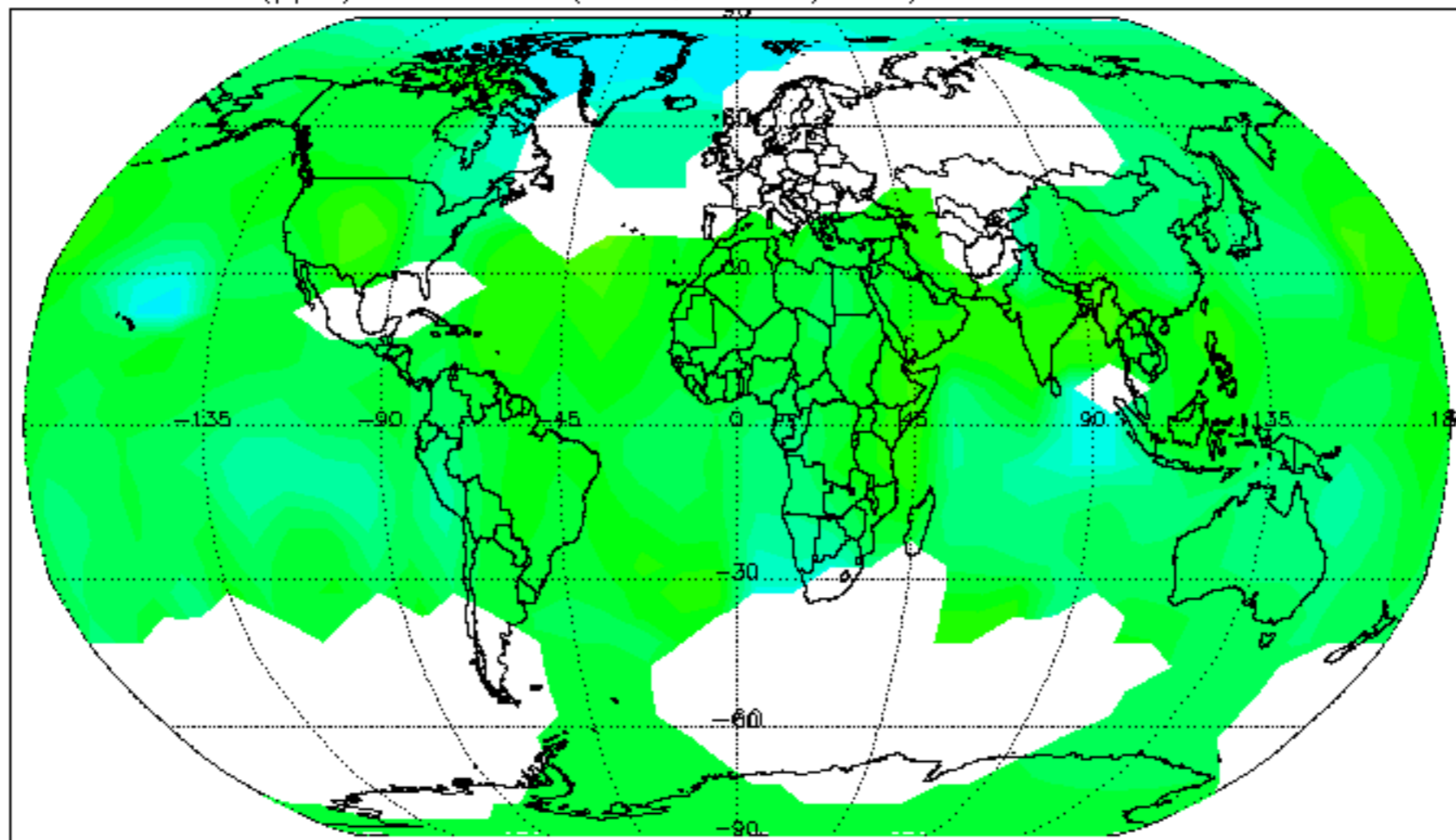
N₂O (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 30-DEC-2011



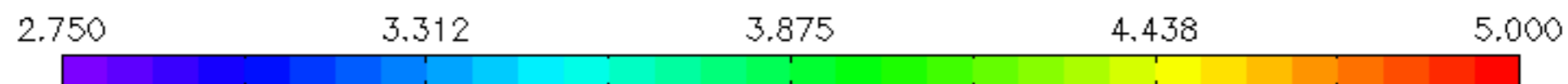
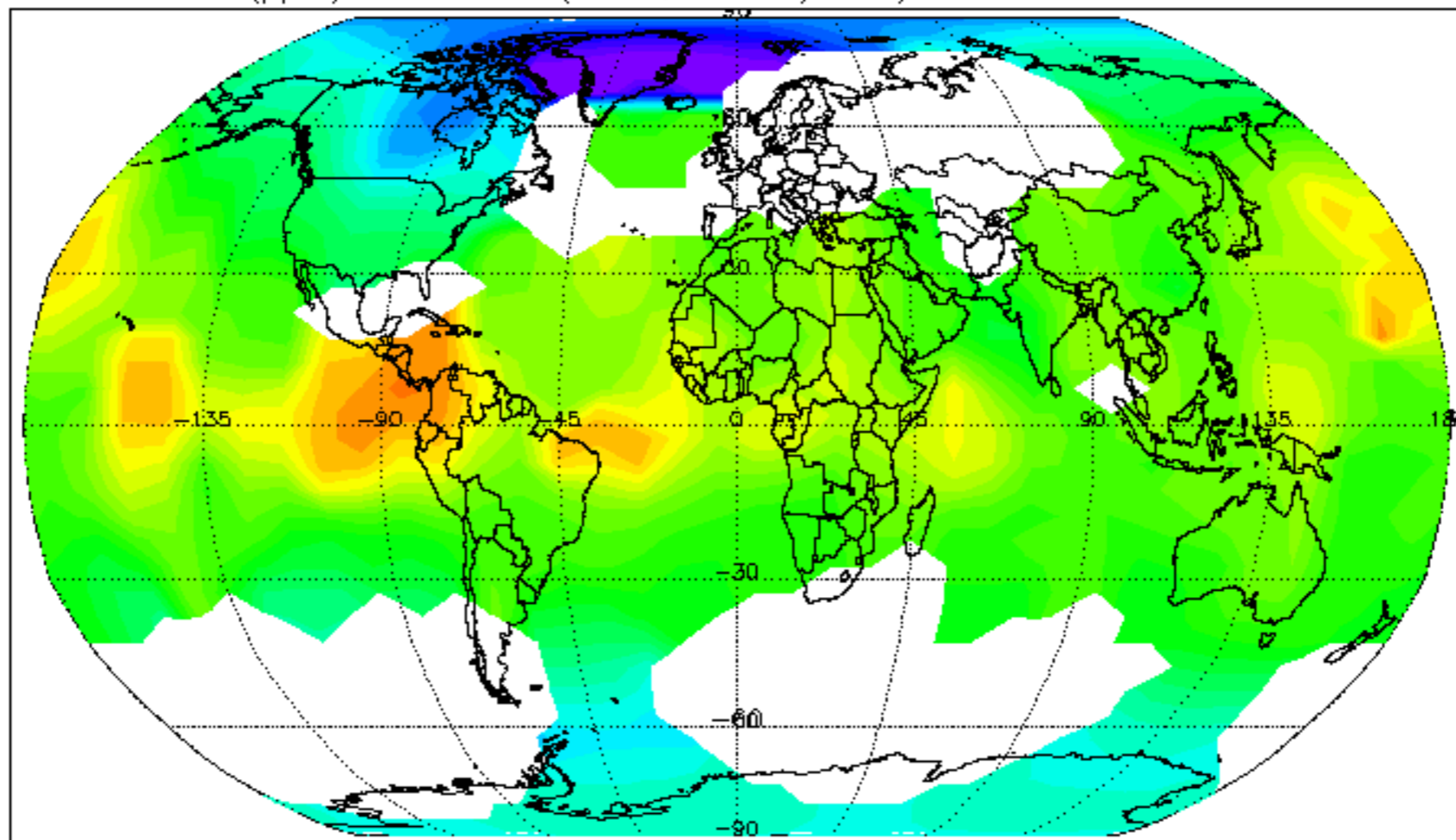
Temp (K) at: 1700 K (45km, 1.5hPa). Daily mean: 30-DEC-2011



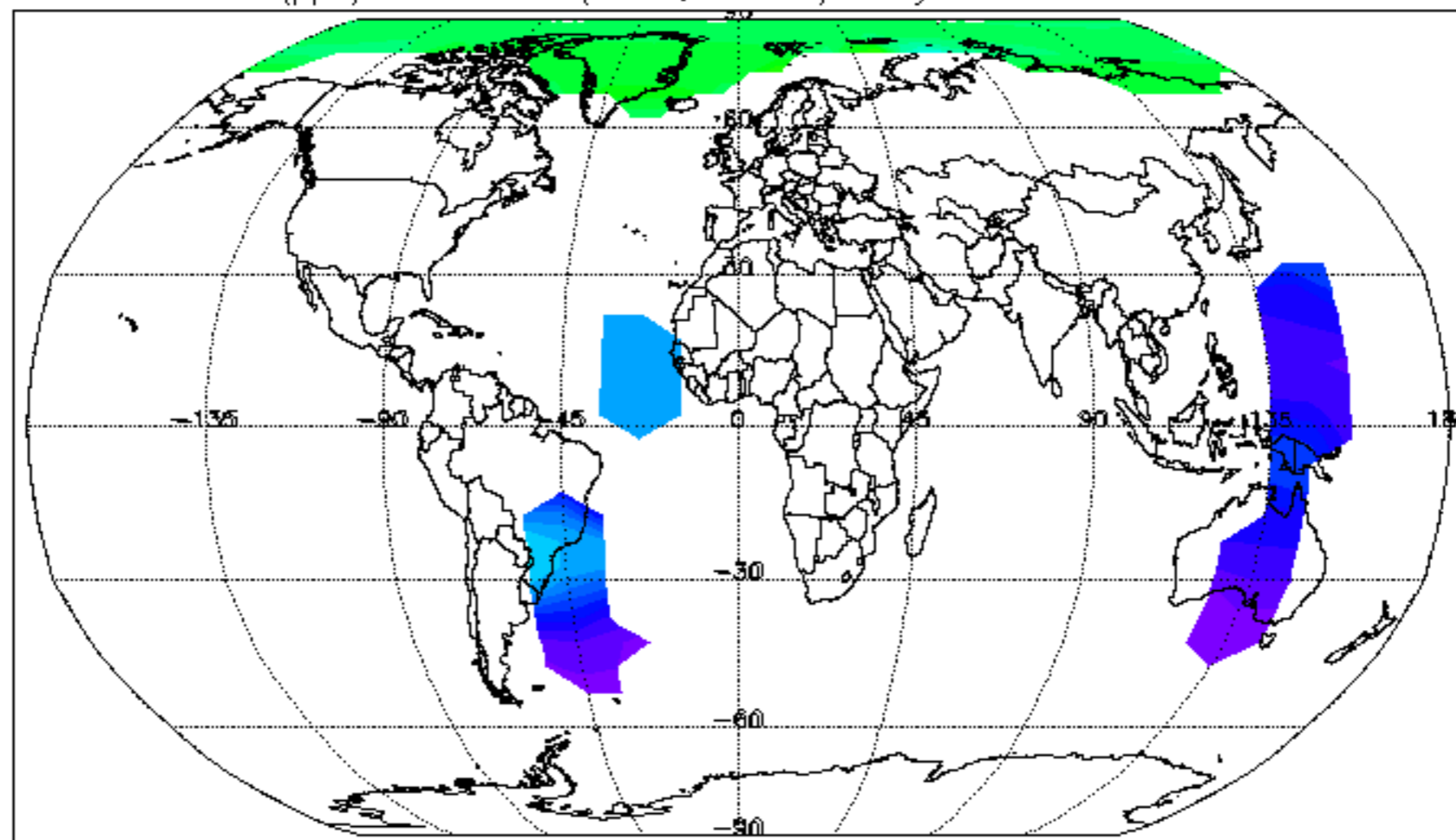
H₂O (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 30-DEC-2011



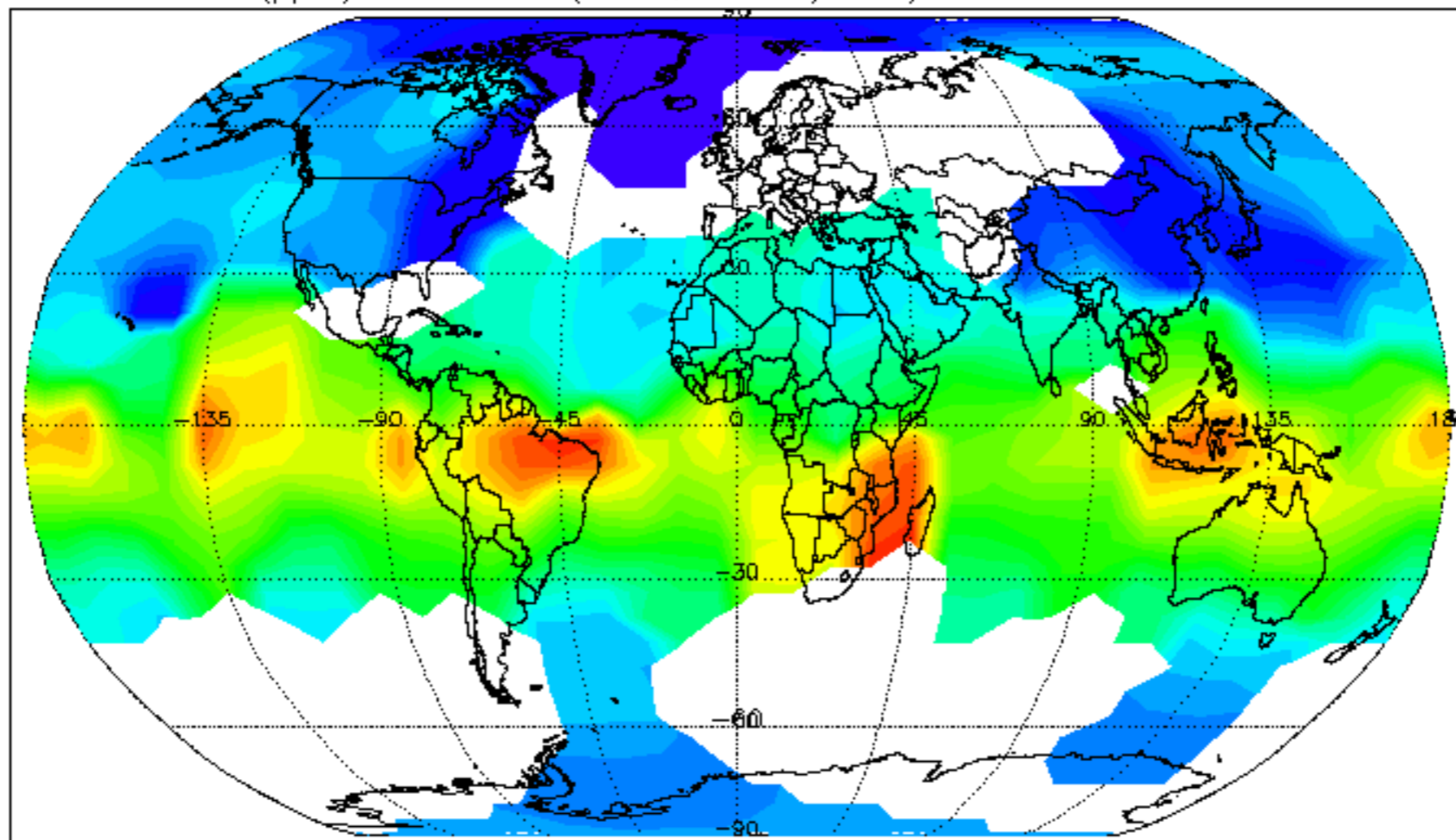
03 (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 30-DEC-2011



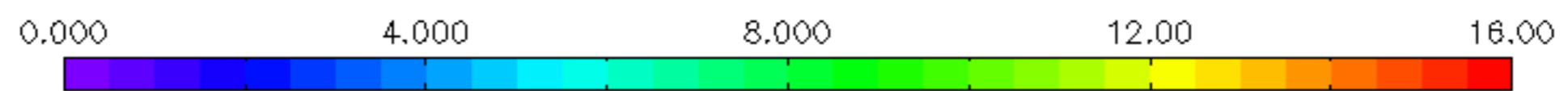
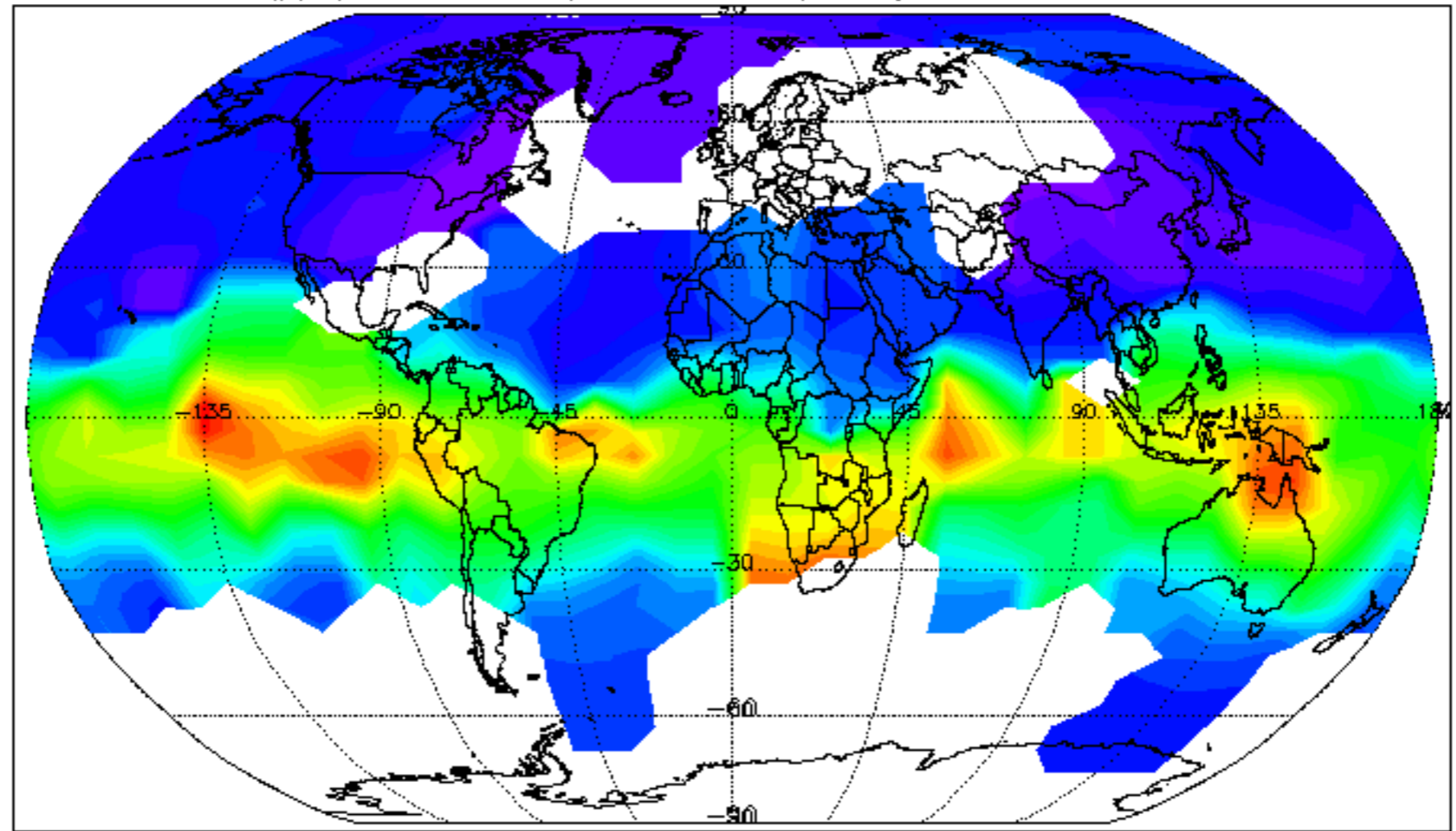
HN03 (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 30-DEC-2011



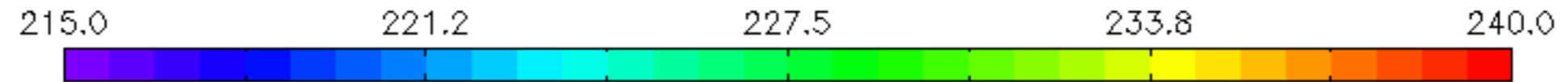
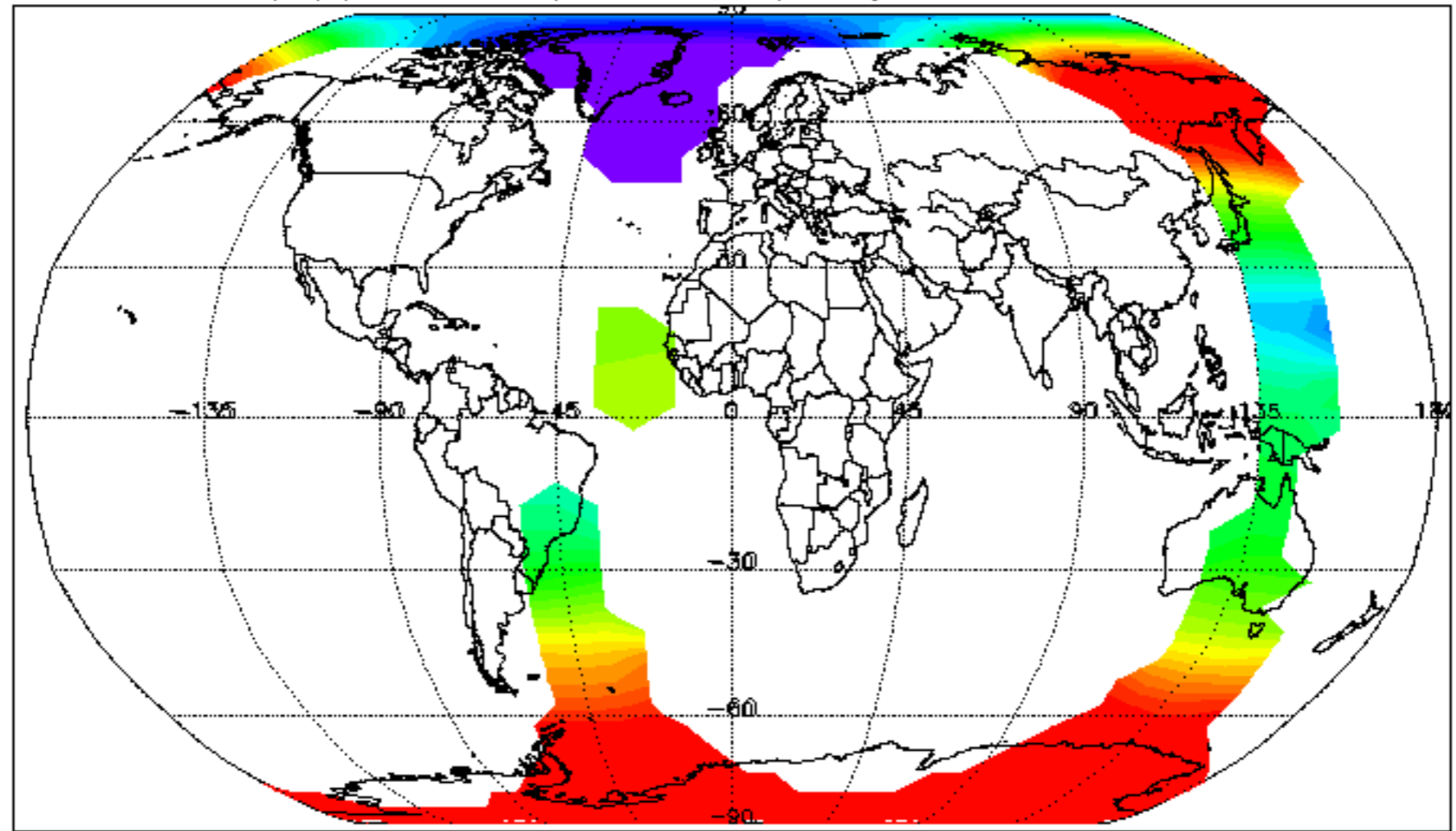
CH₄ (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 30-DEC-2011



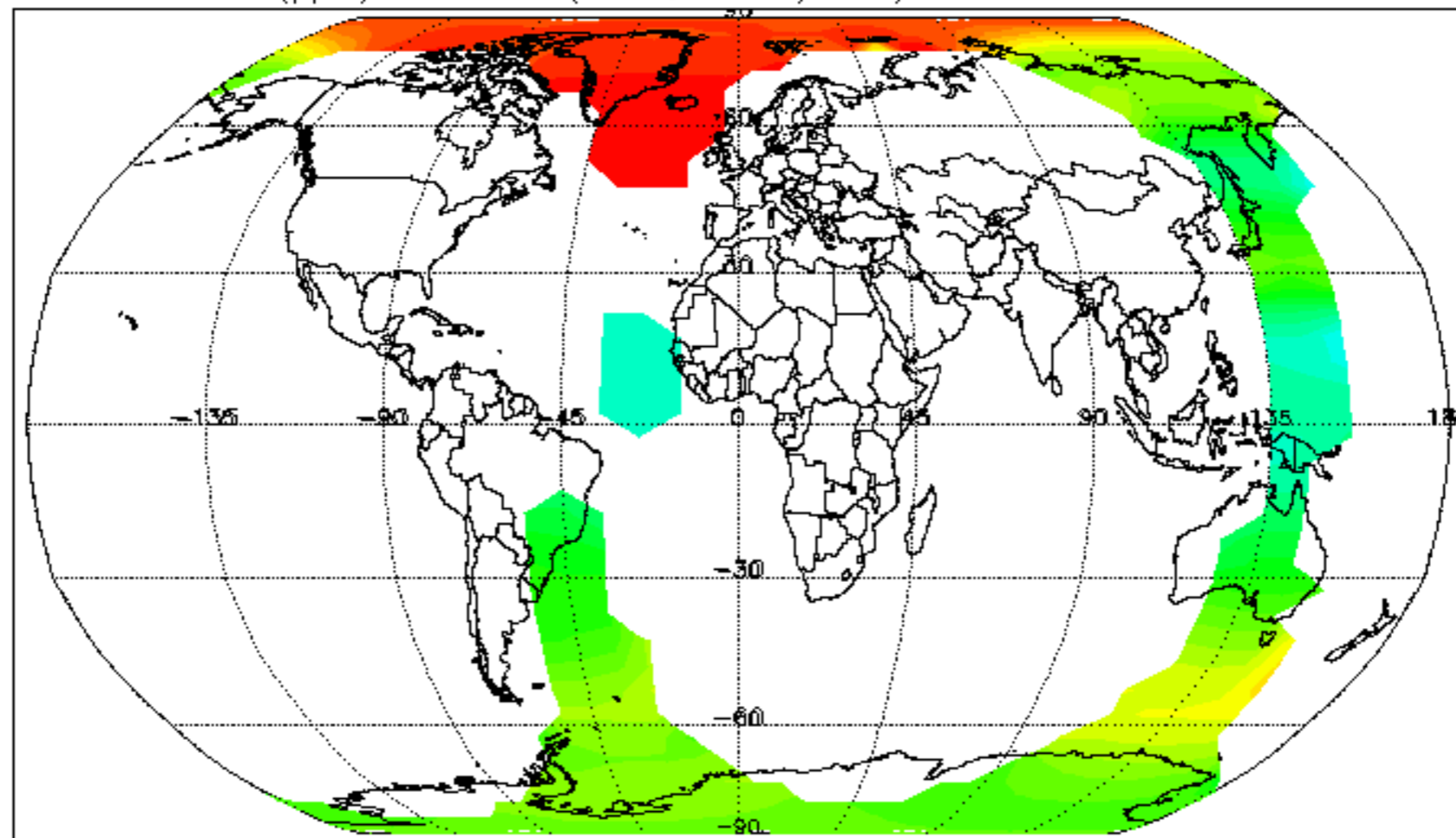
N₂O (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 30-DEC-2011



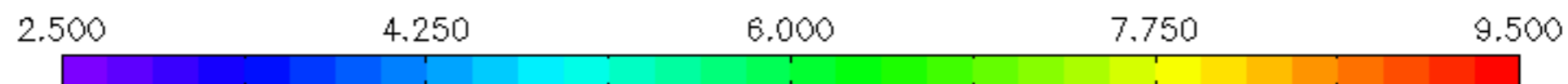
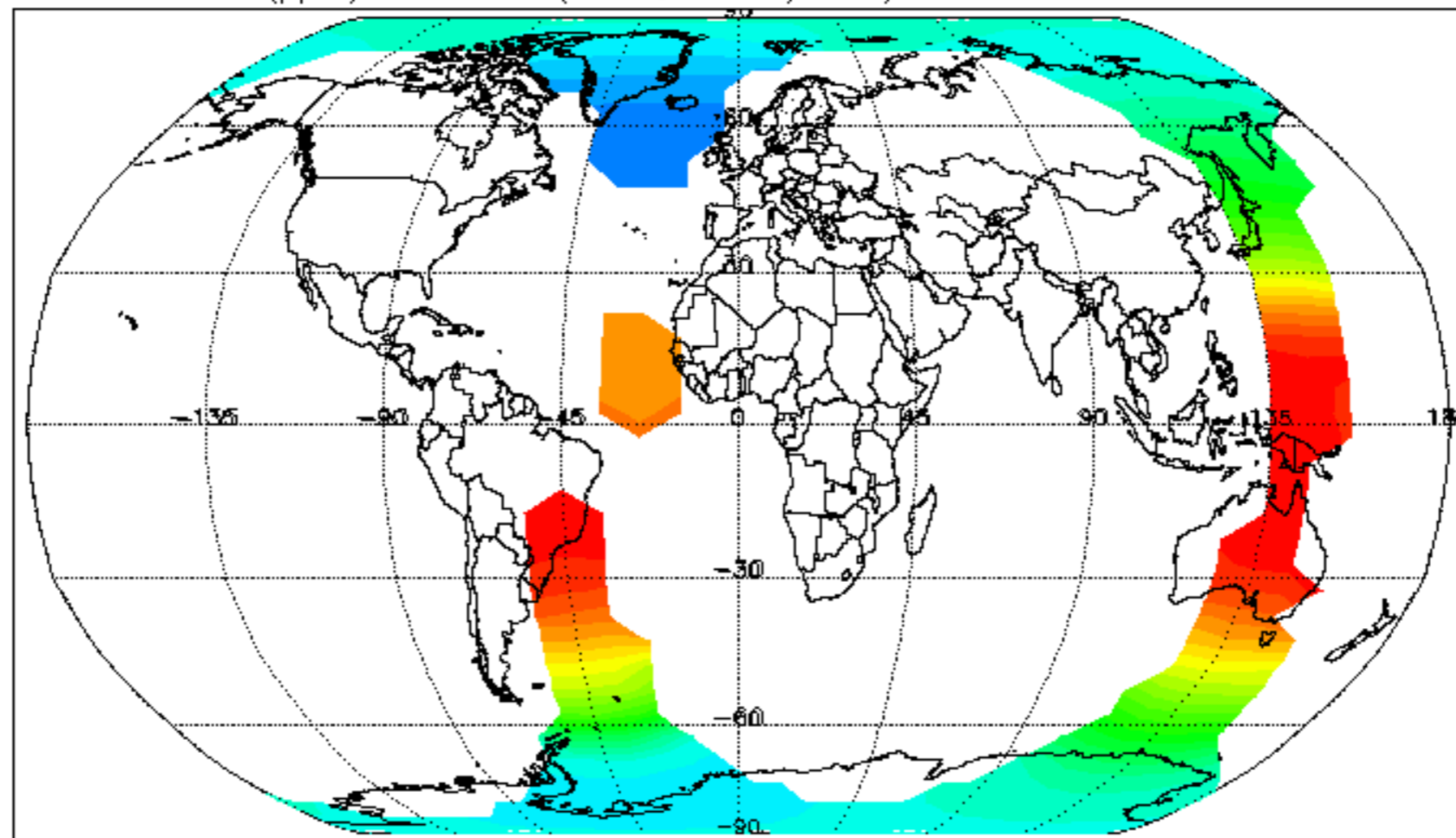
Temp (K) at: 850 K (32km, 10hPa). Daily mean: 30-DEC-2011



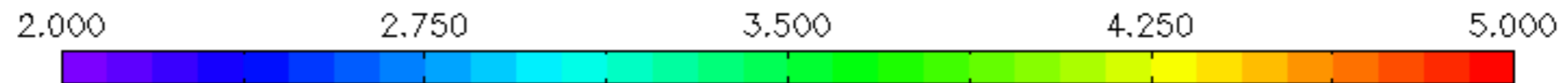
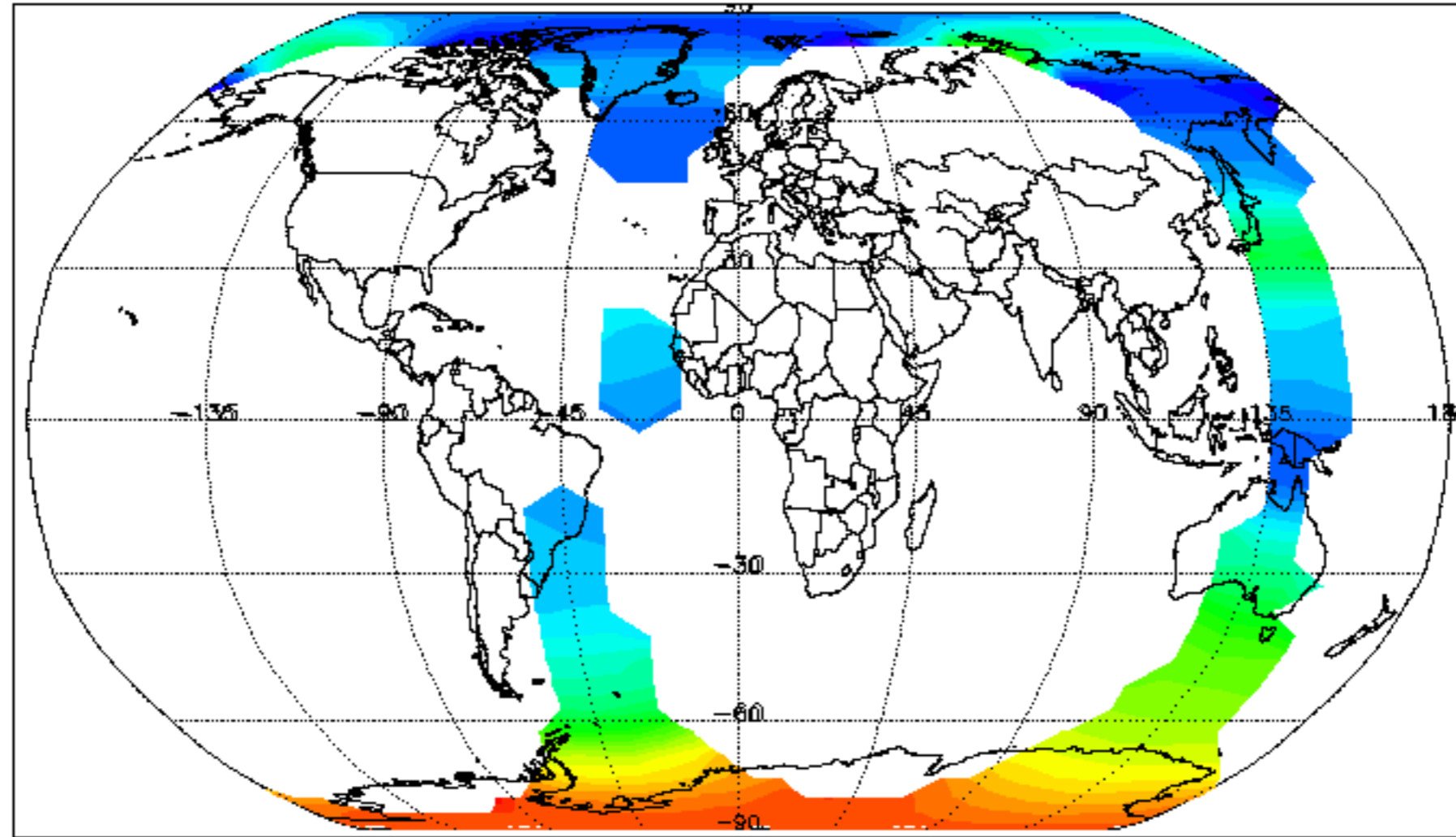
H₂O (ppm) at: 850 K (32km, 10hPa). Daily mean: 30-DEC-2011



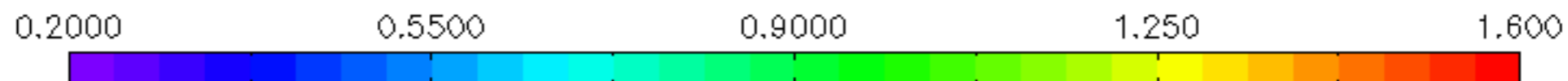
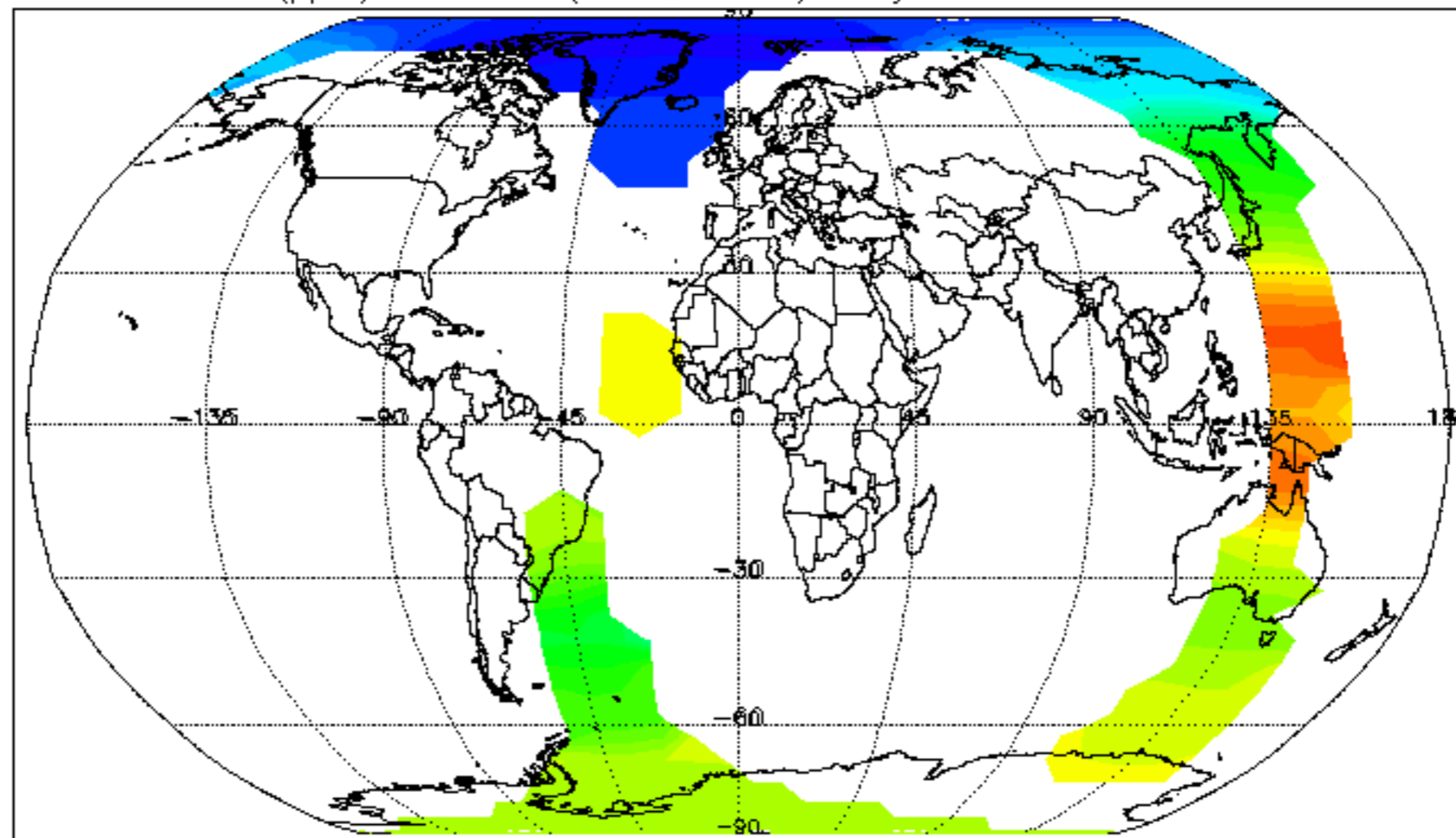
O3 (ppm) at: 850 K (32km, 10hPa). Daily mean: 30-DEC-2011



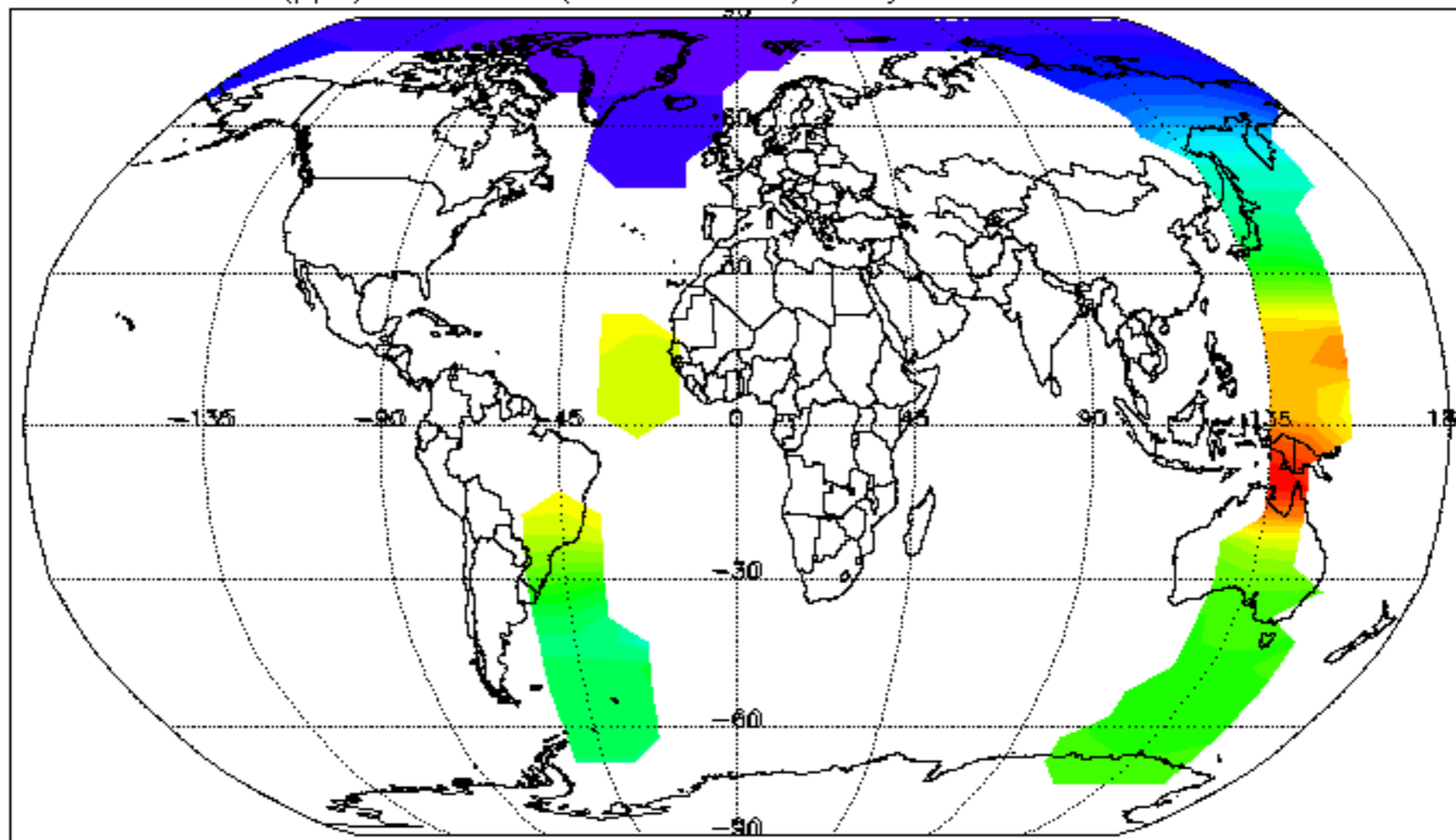
HNO₃ (ppb) at: 850 K (32km, 10hPa). Daily mean: 30-DEC-2011



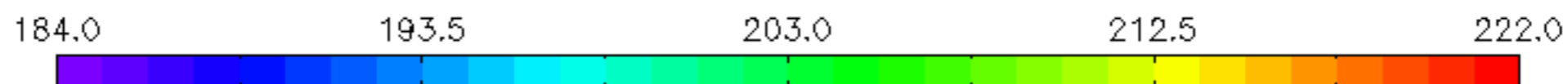
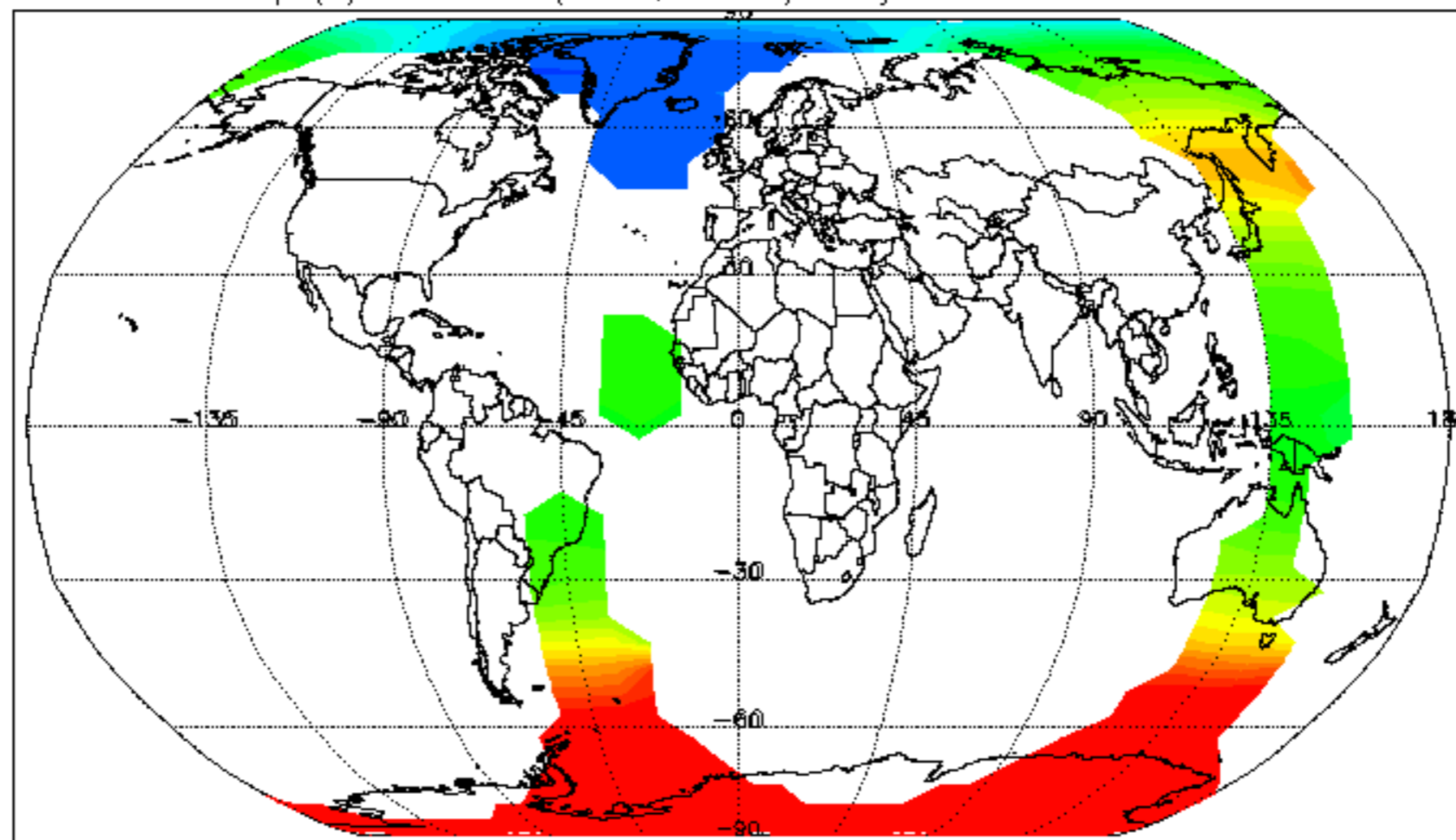
CH₄ (ppm) at: 850 K (32km, 10hPa). Daily mean: 30-DEC-2011



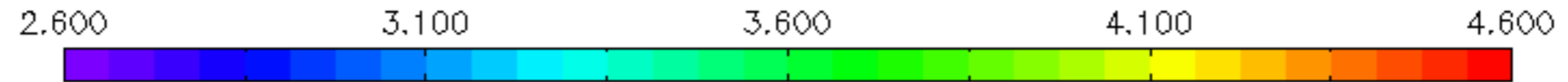
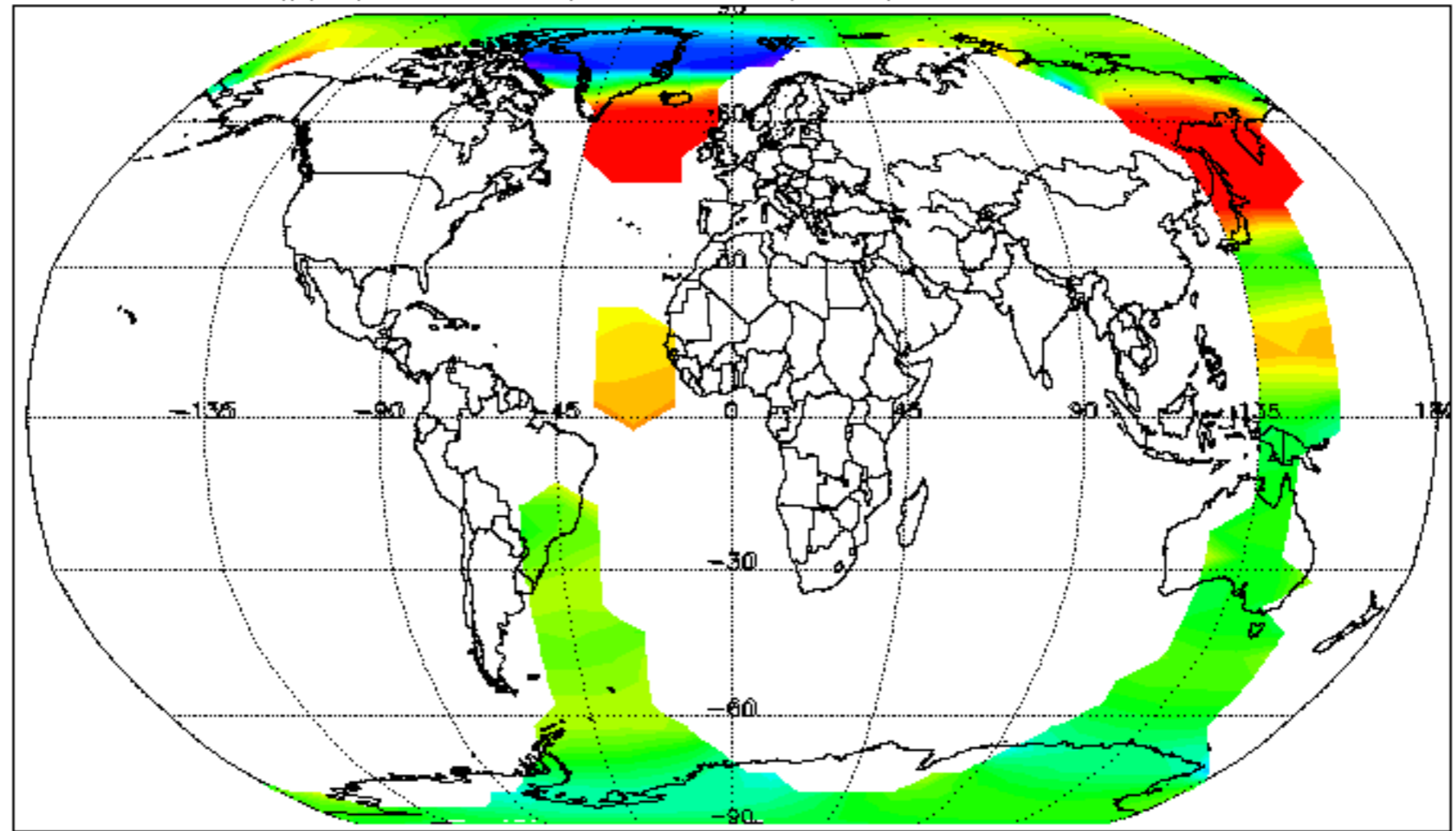
N₂O (ppb) at: 850 K (32km, 10hPa). Daily mean: 30-DEC-2011



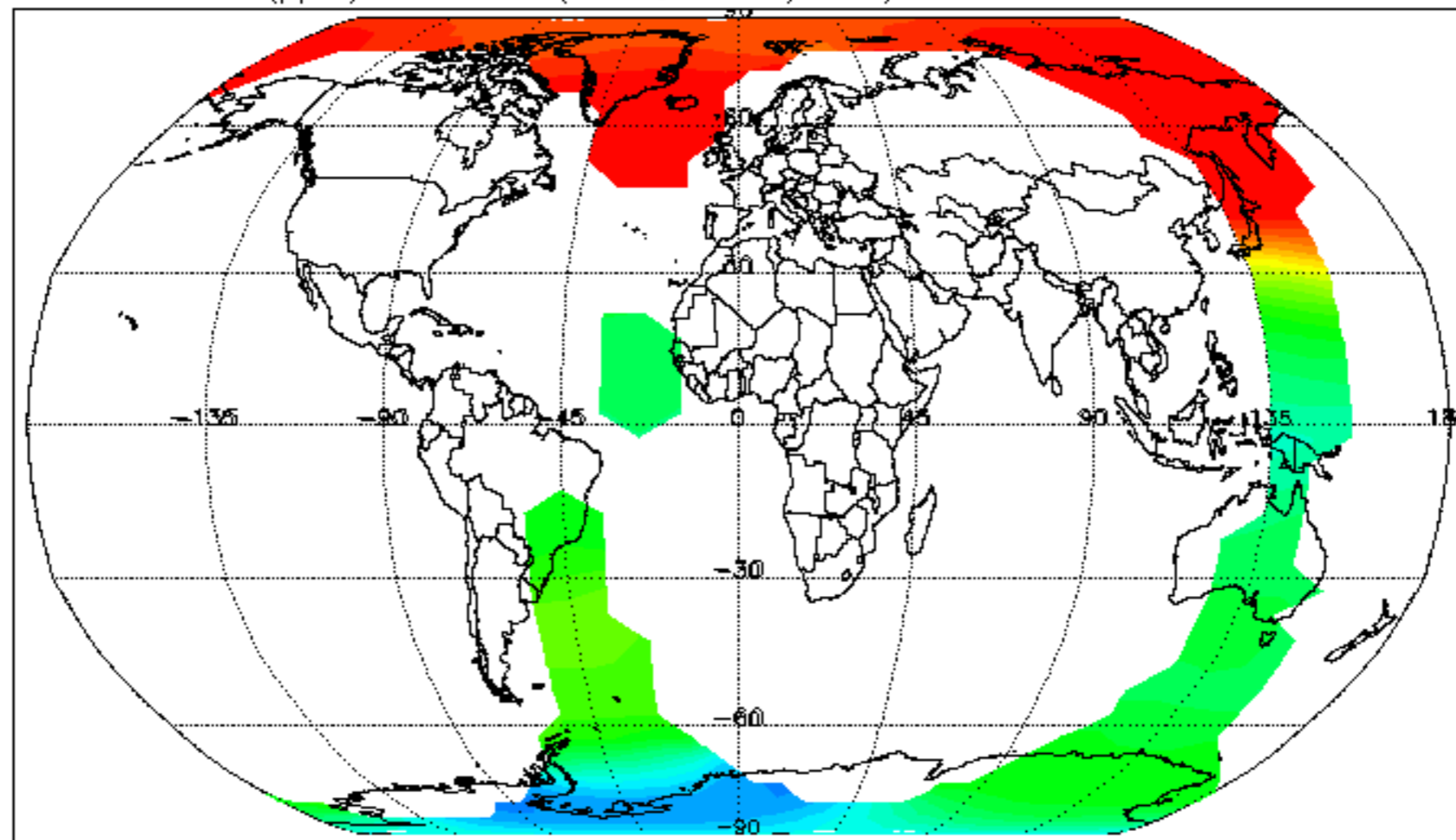
Temp (K) at: 490 K (19km, 55hPa). Daily mean: 30-DEC-2011



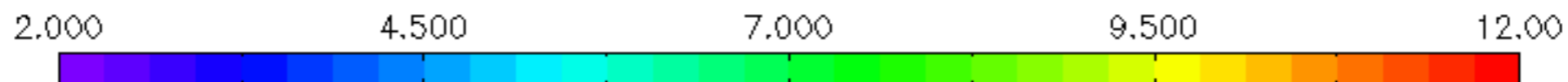
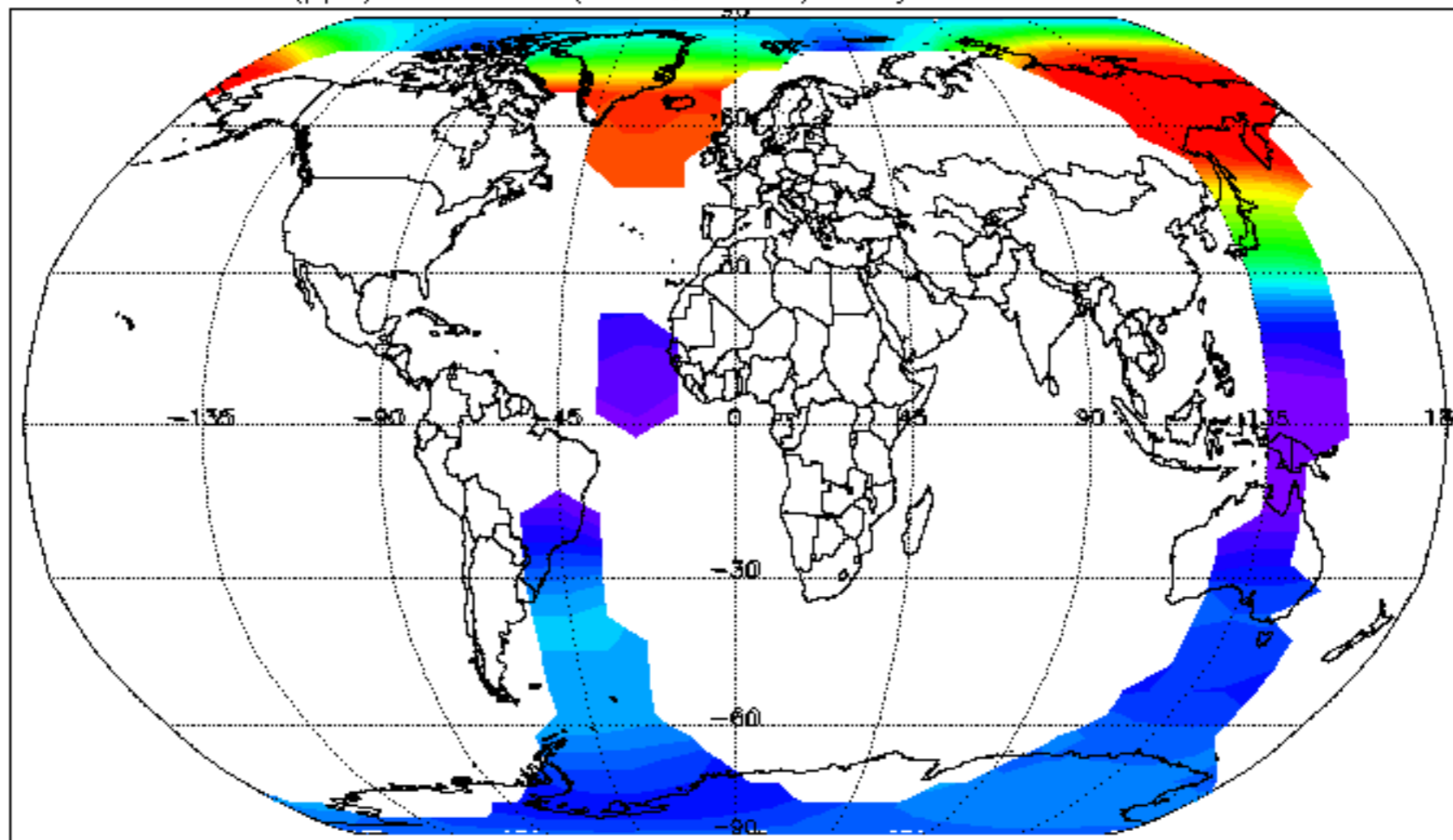
H2O (ppm) at: 490 K (19km, 55hPa). Daily mean: 30-DEC-2011



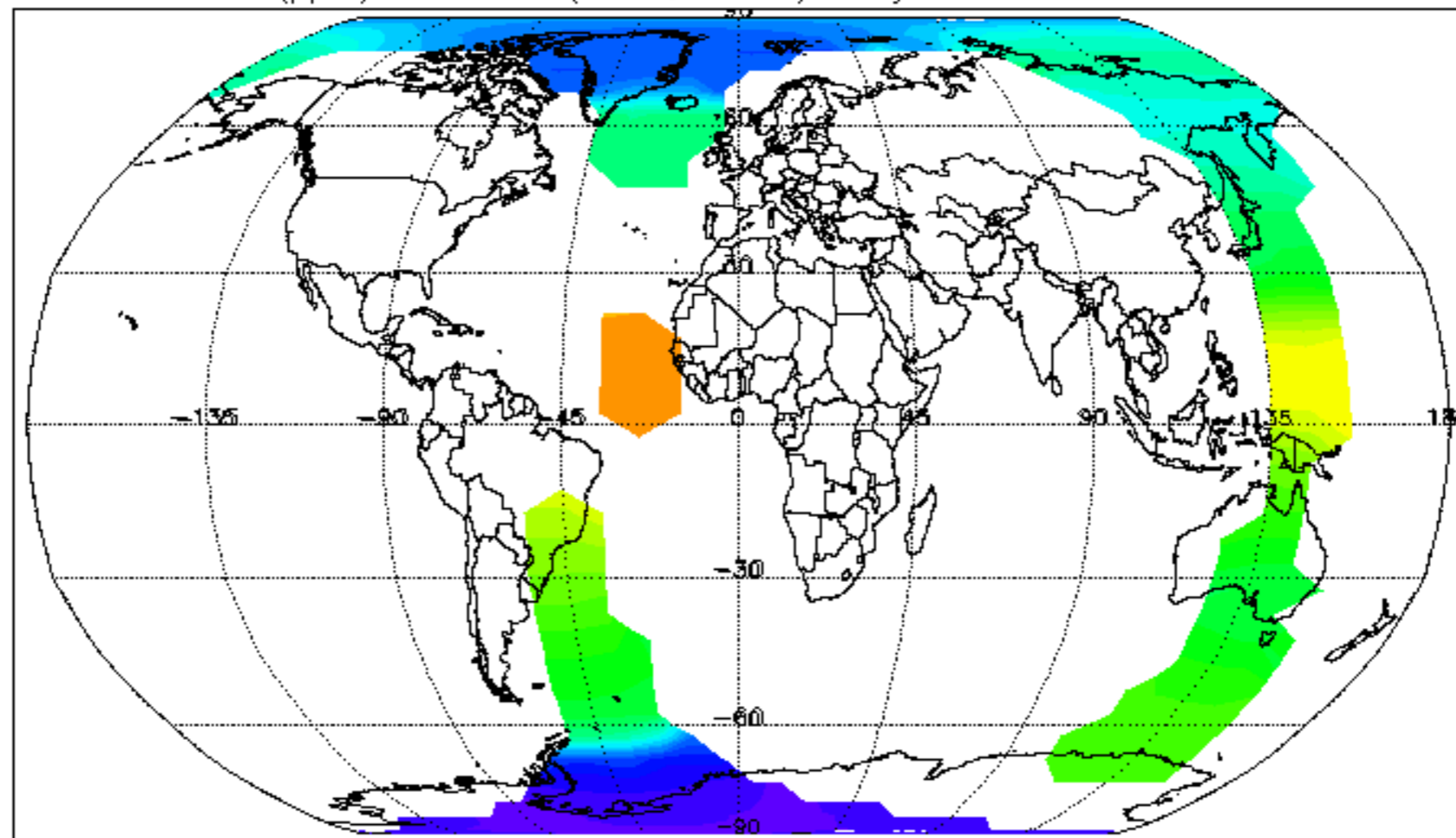
O3 (ppm) at: 490 K (19km, 55hPa). Daily mean: 30-DEC-2011



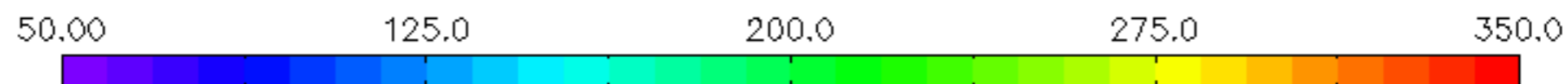
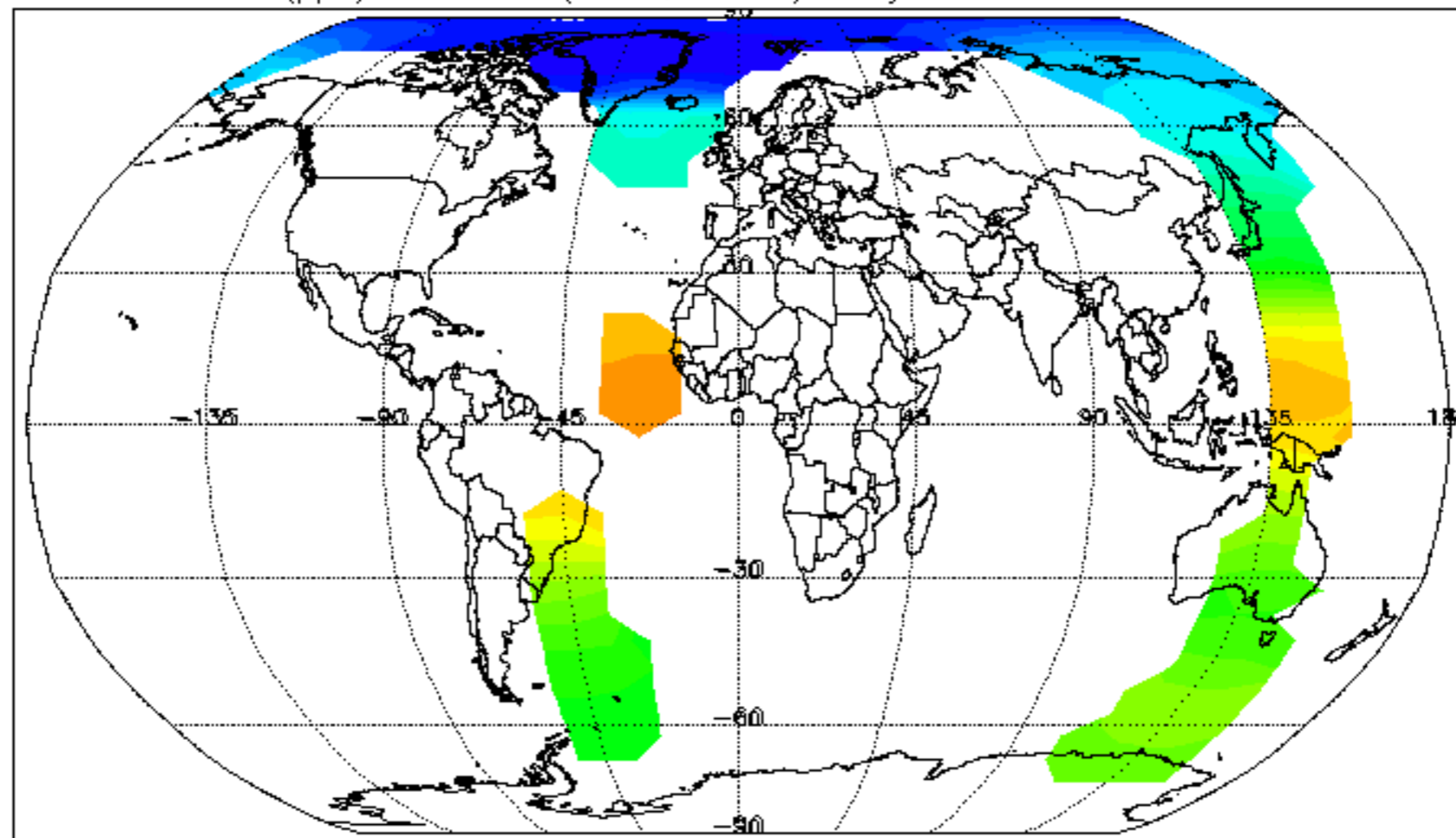
HNO₃ (ppb) at: 490 K (19km, 55hPa). Daily mean: 30-DEC-2011



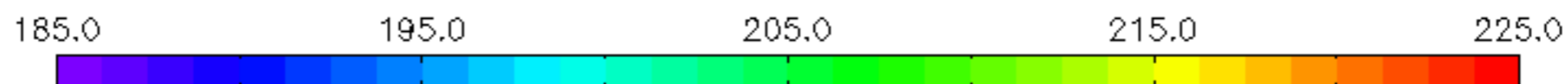
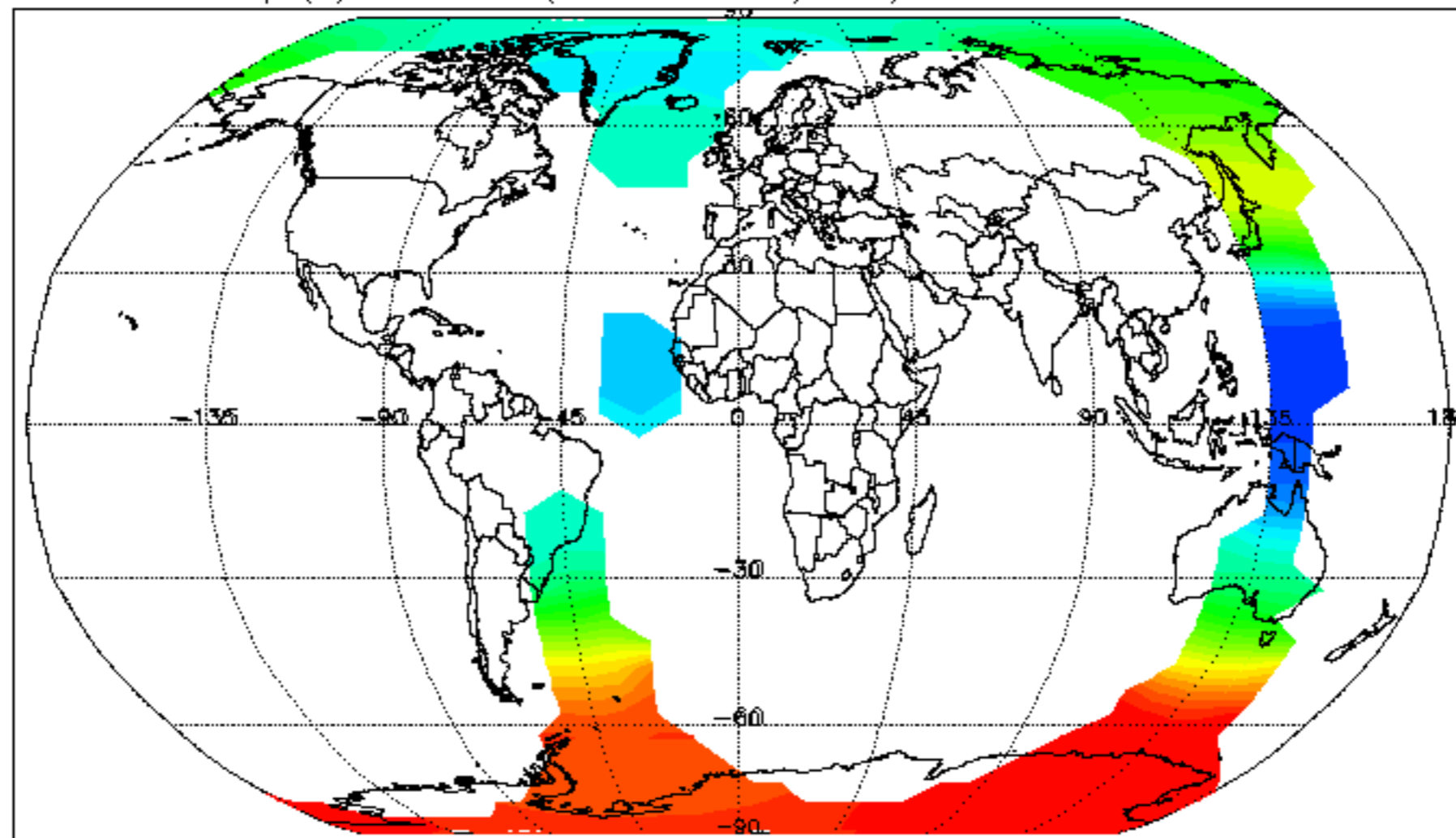
CH₄ (ppm) at: 490 K (19km, 55hPa). Daily mean: 30-DEC-2011



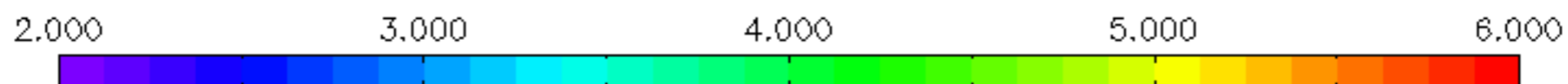
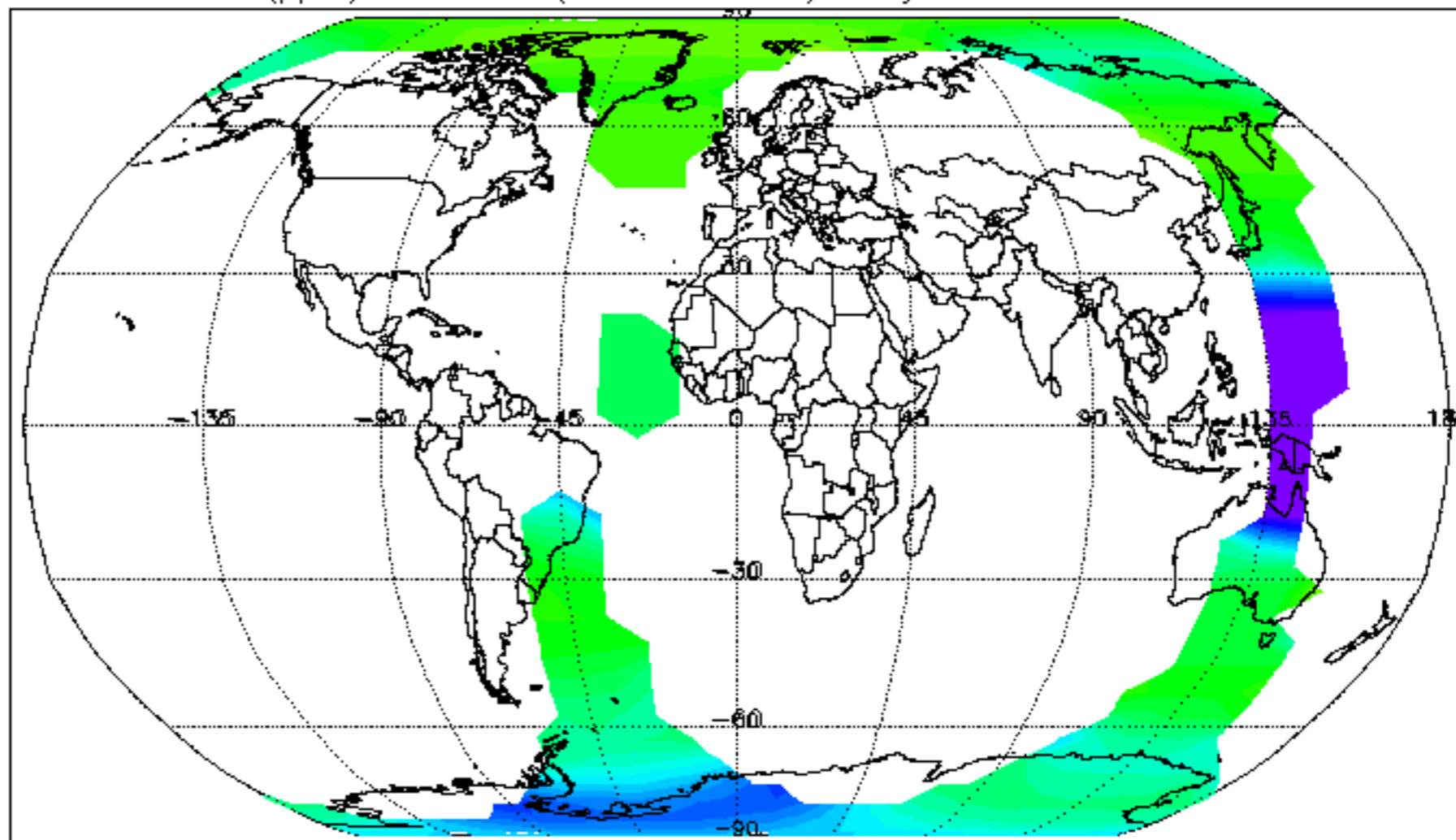
N₂O (ppb) at: 490 K (19km, 55hPa). Daily mean: 30-DEC-2011



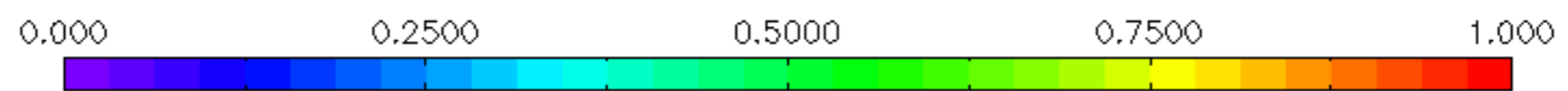
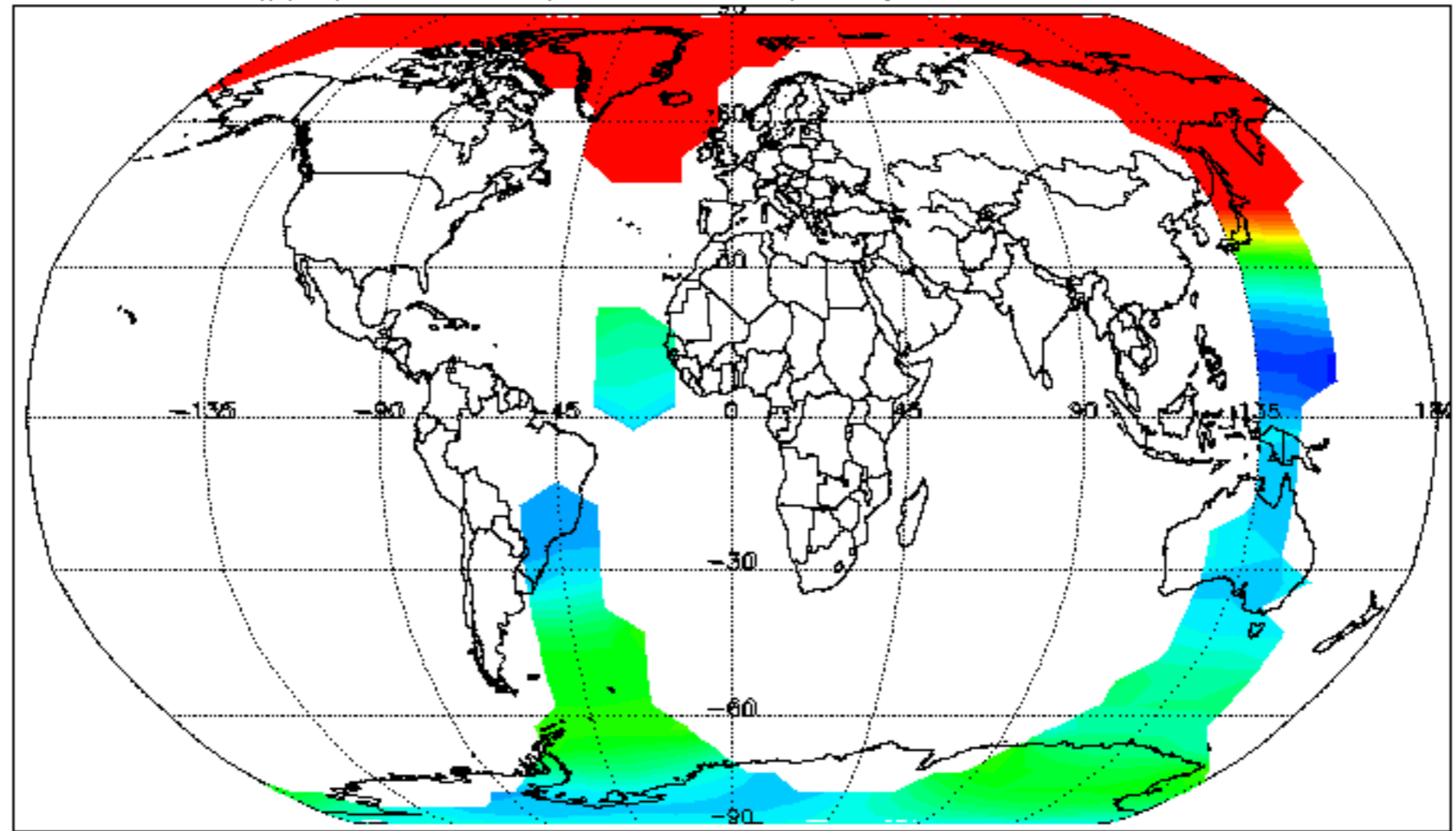
Temp (K) at: 410 K (16km, 100hPa). Daily mean: 30-DEC-2011



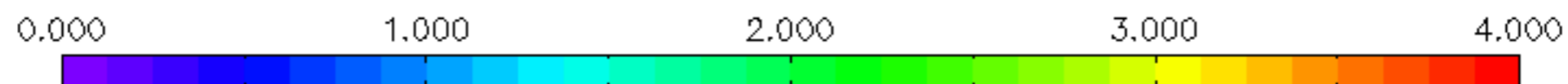
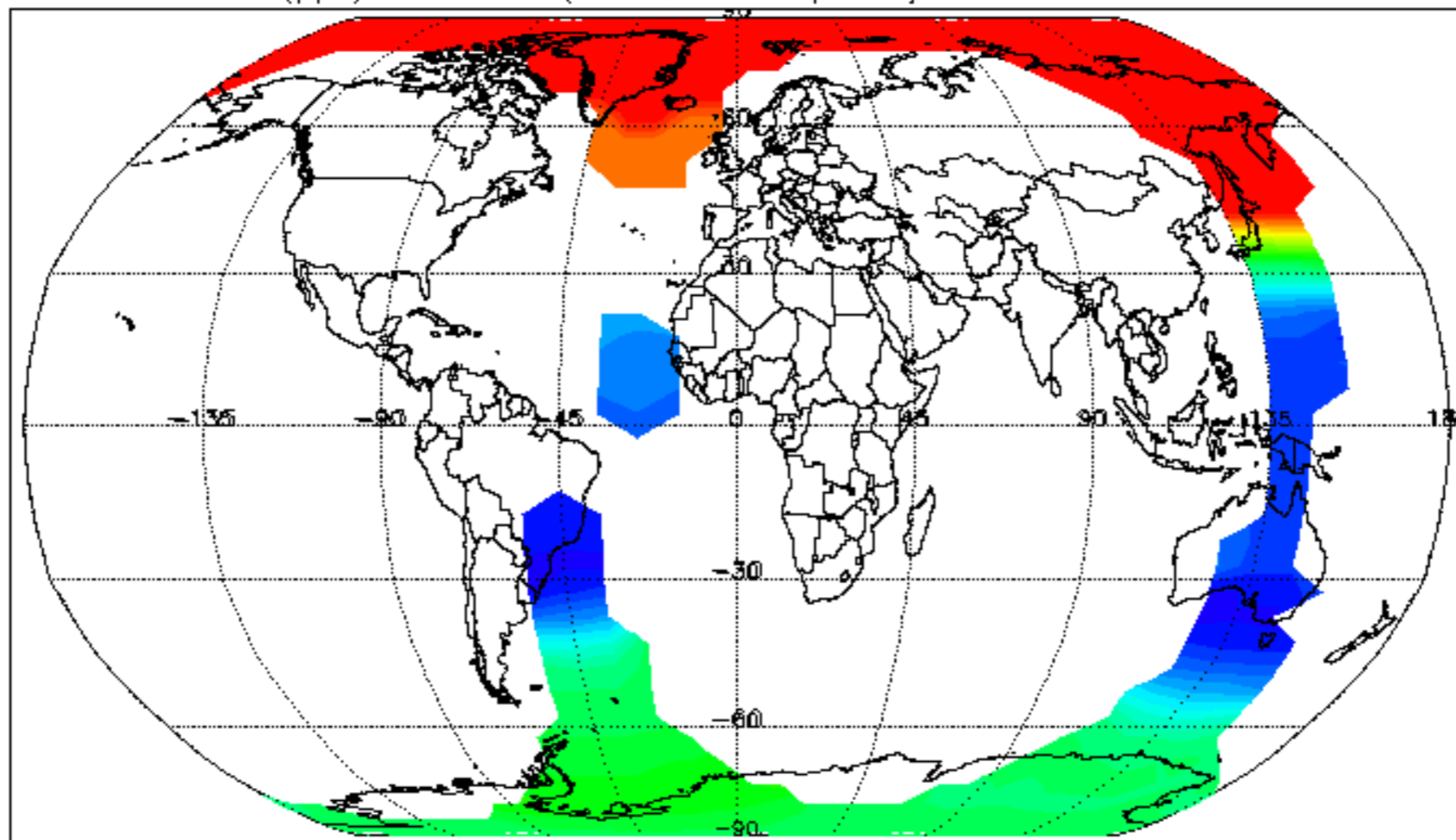
H₂O (ppm) at: 410 K (16km, 100hPa). Daily mean: 30-DEC-2011



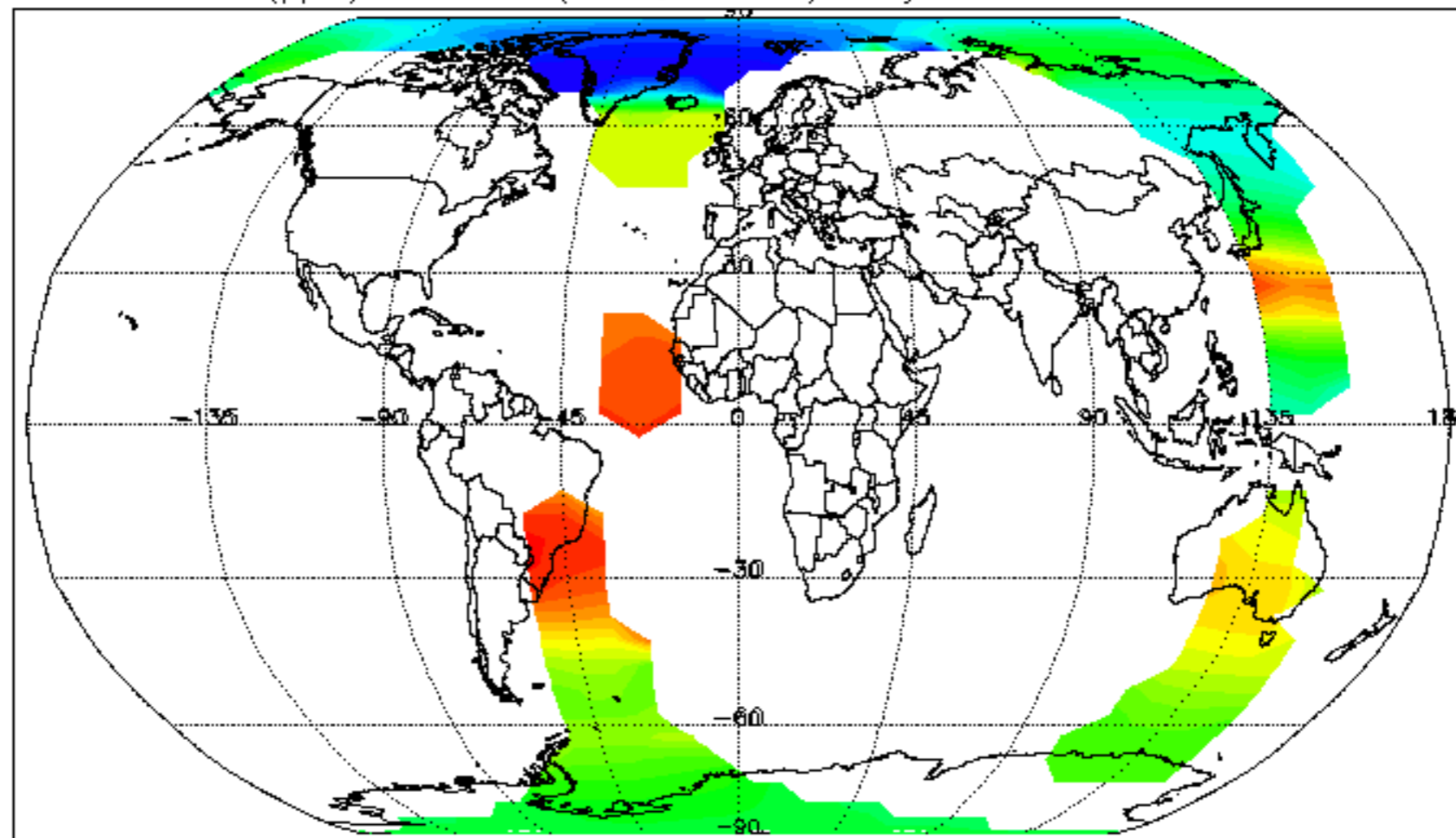
O3 (ppm) at: 410 K (16km, 100hPa). Daily mean: 30-DEC-2011



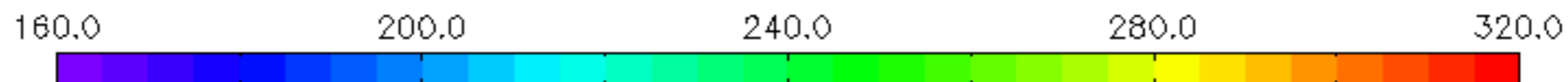
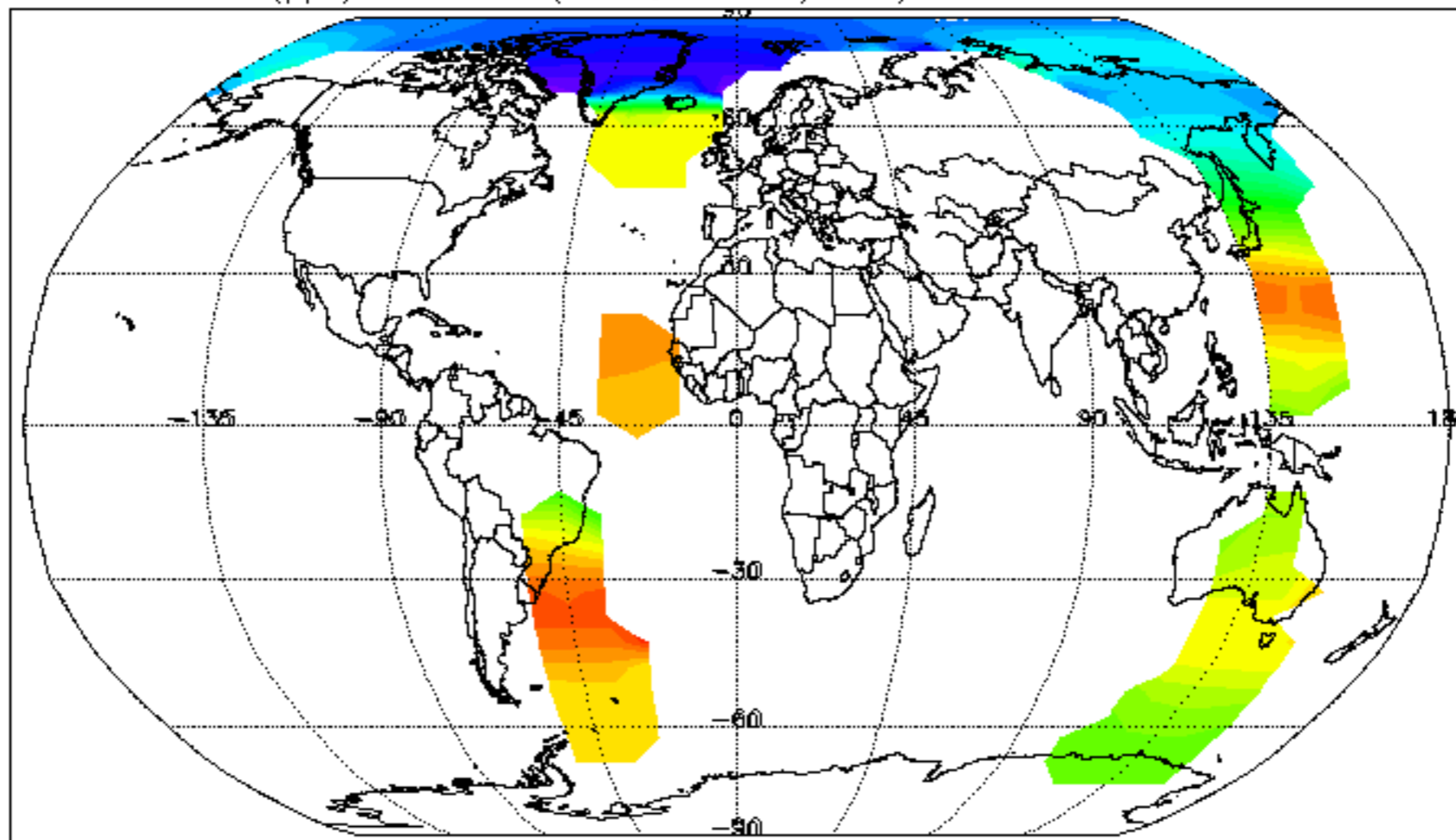
HNO₃ (ppb) at: 410 K (16km, 100hPa). Daily mean: 30-DEC-2011



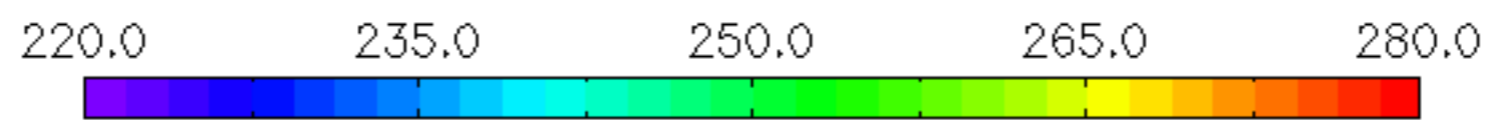
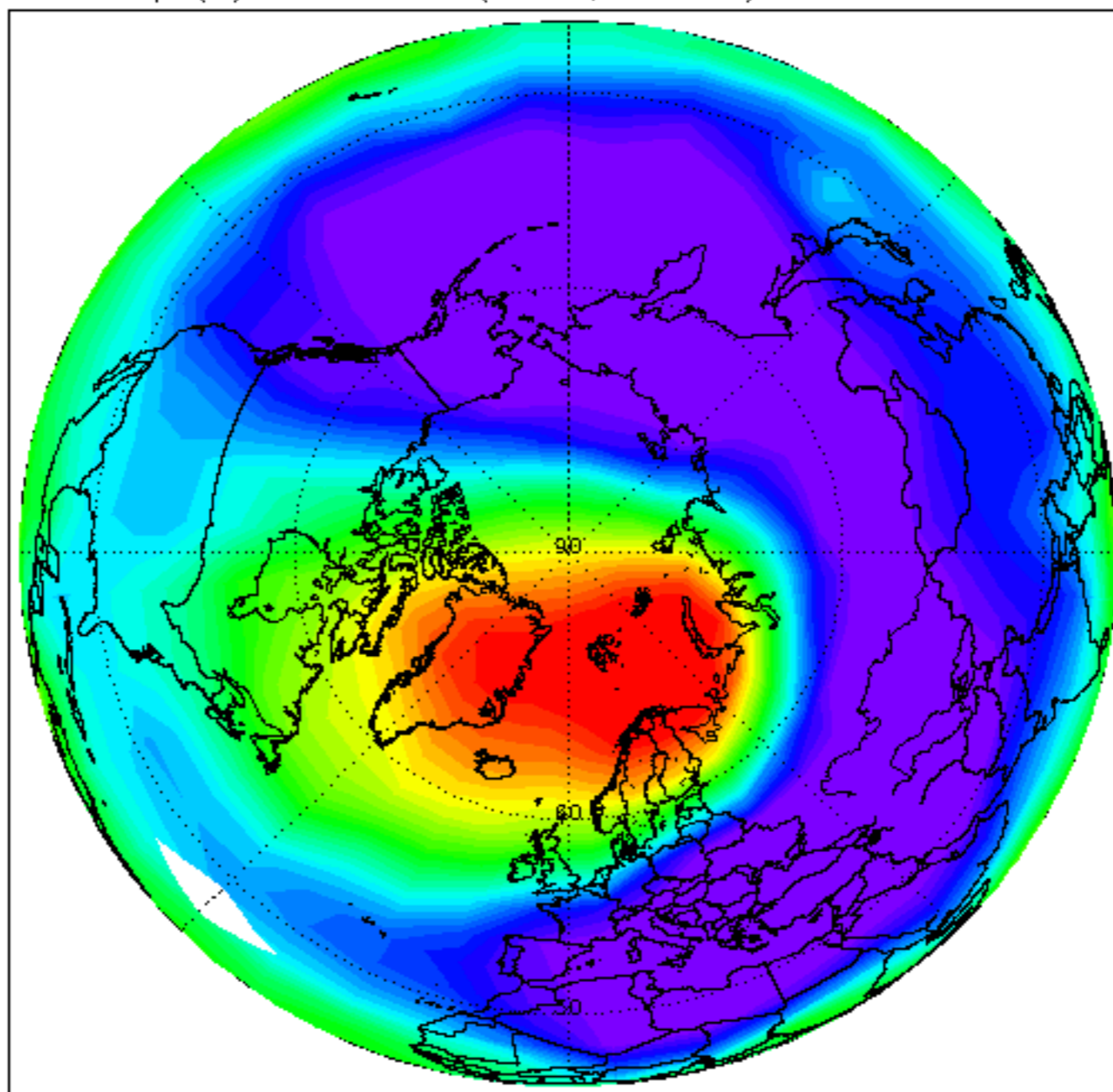
CH₄ (ppm) at: 410 K (16km, 100hPa). Daily mean: 30-DEC-2011



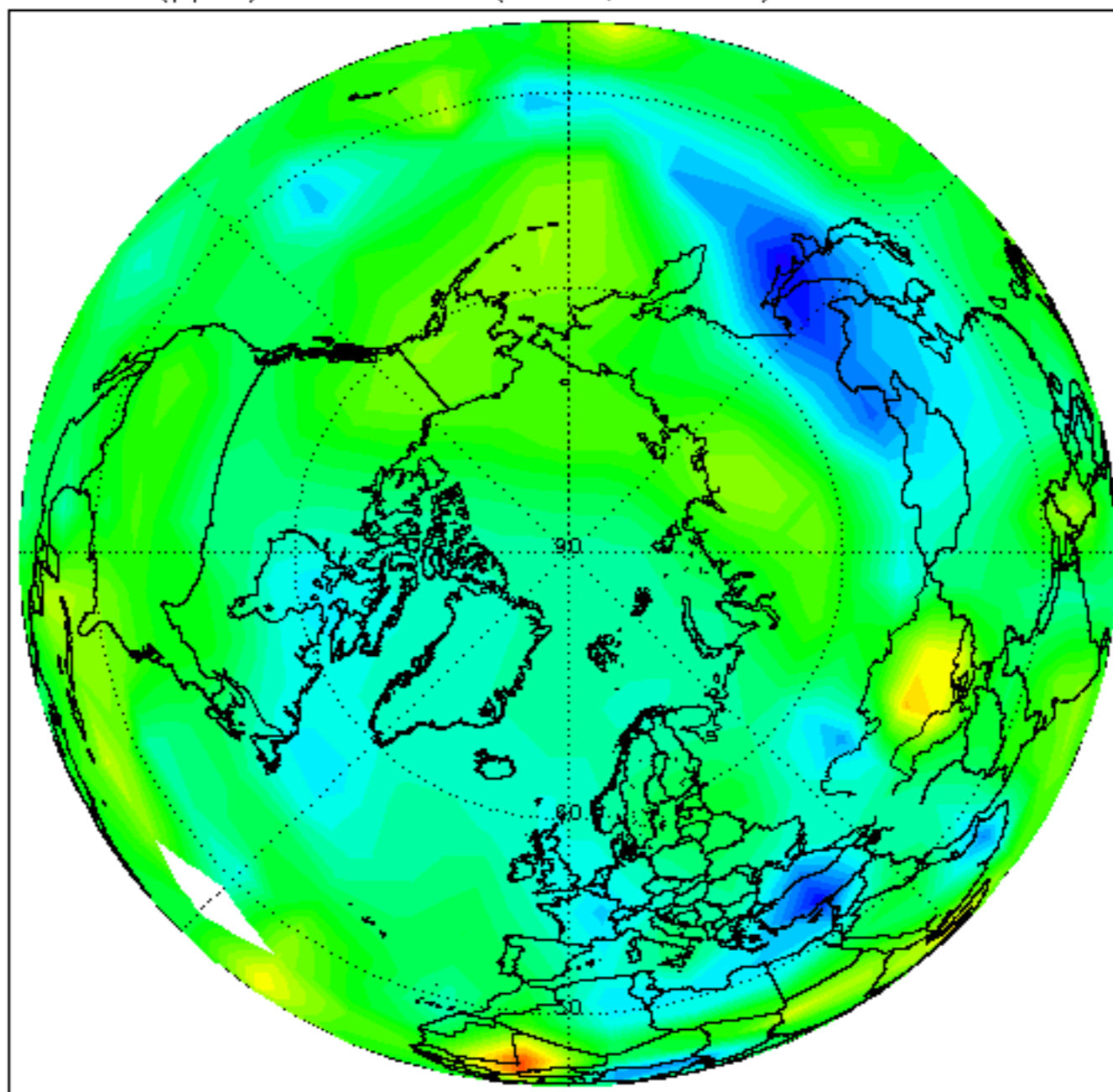
N₂O (ppb) at: 410 K (16km, 100hPa). Daily mean: 30-DEC-2011



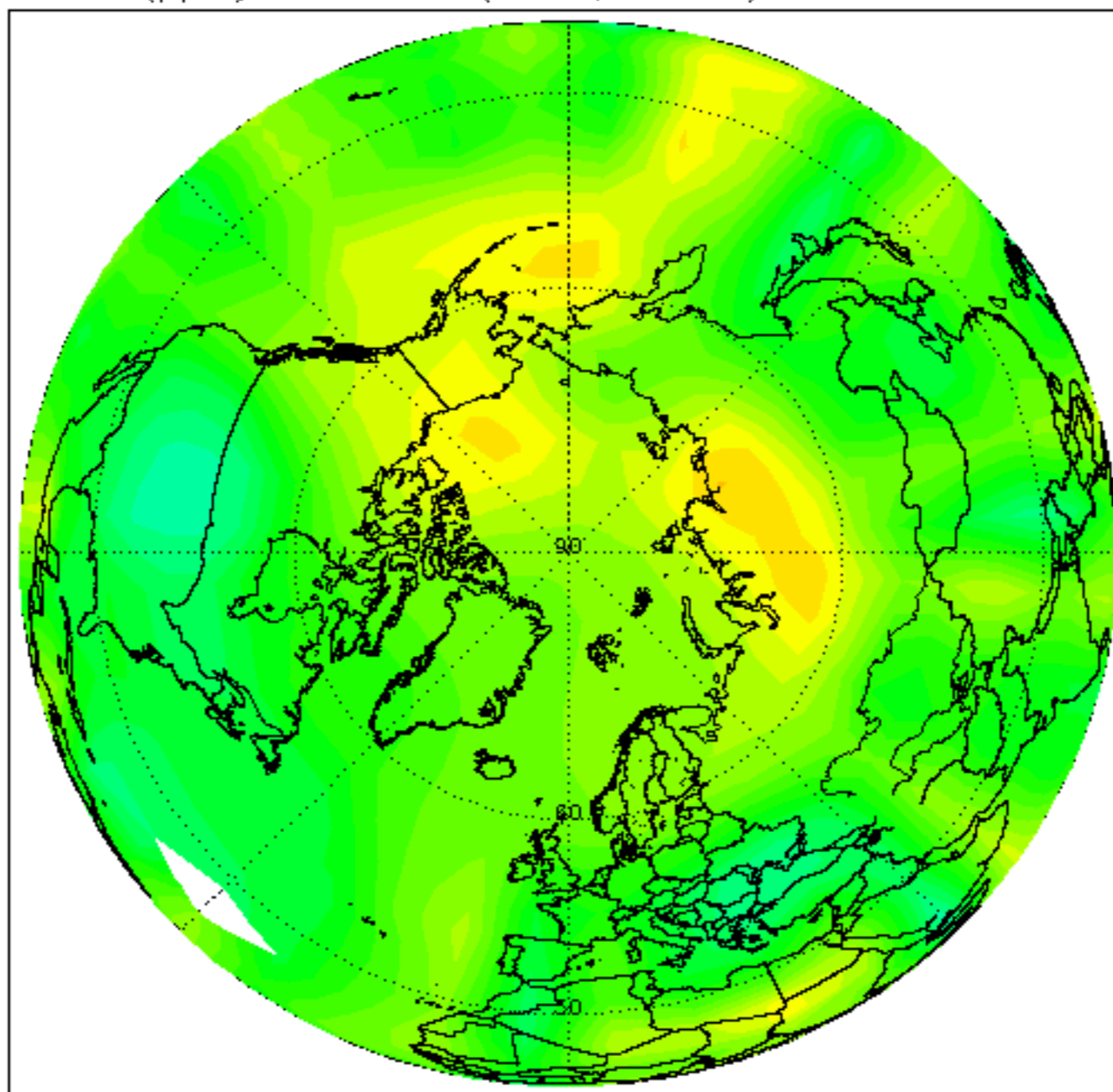
Temp (K) at 2700 K (60km, 0.2hPa). 30-DEC-2011



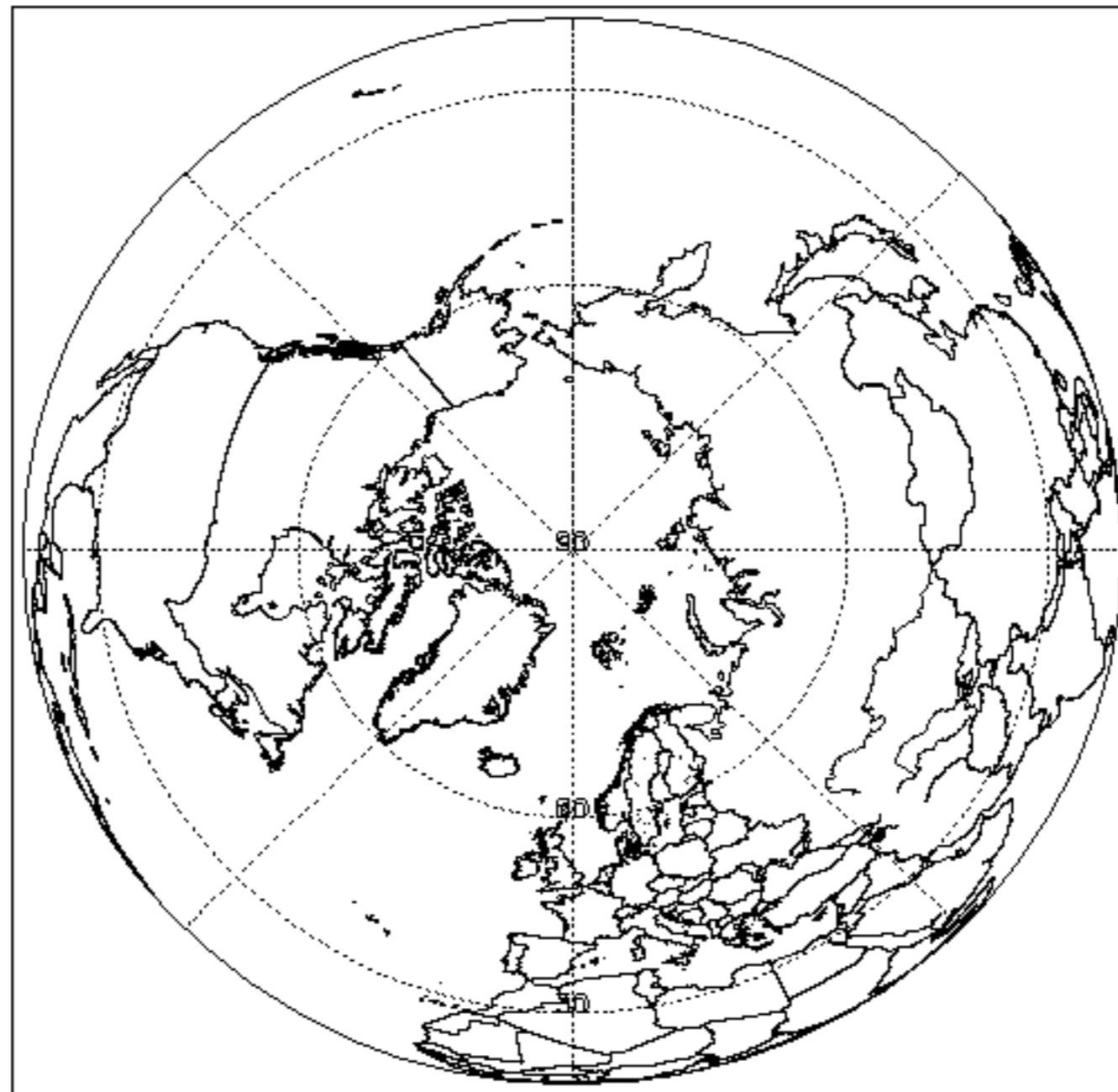
H₂O (ppm) at 2700 K (60km, 0.2hPa). 30-DEC-2011



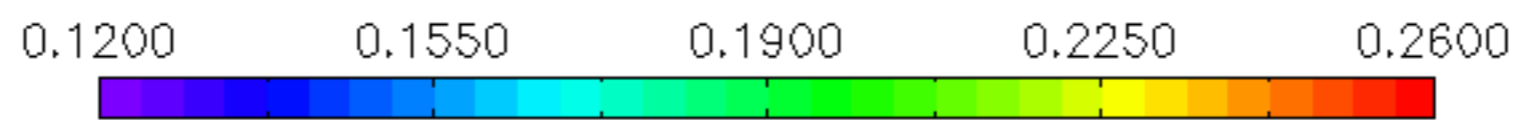
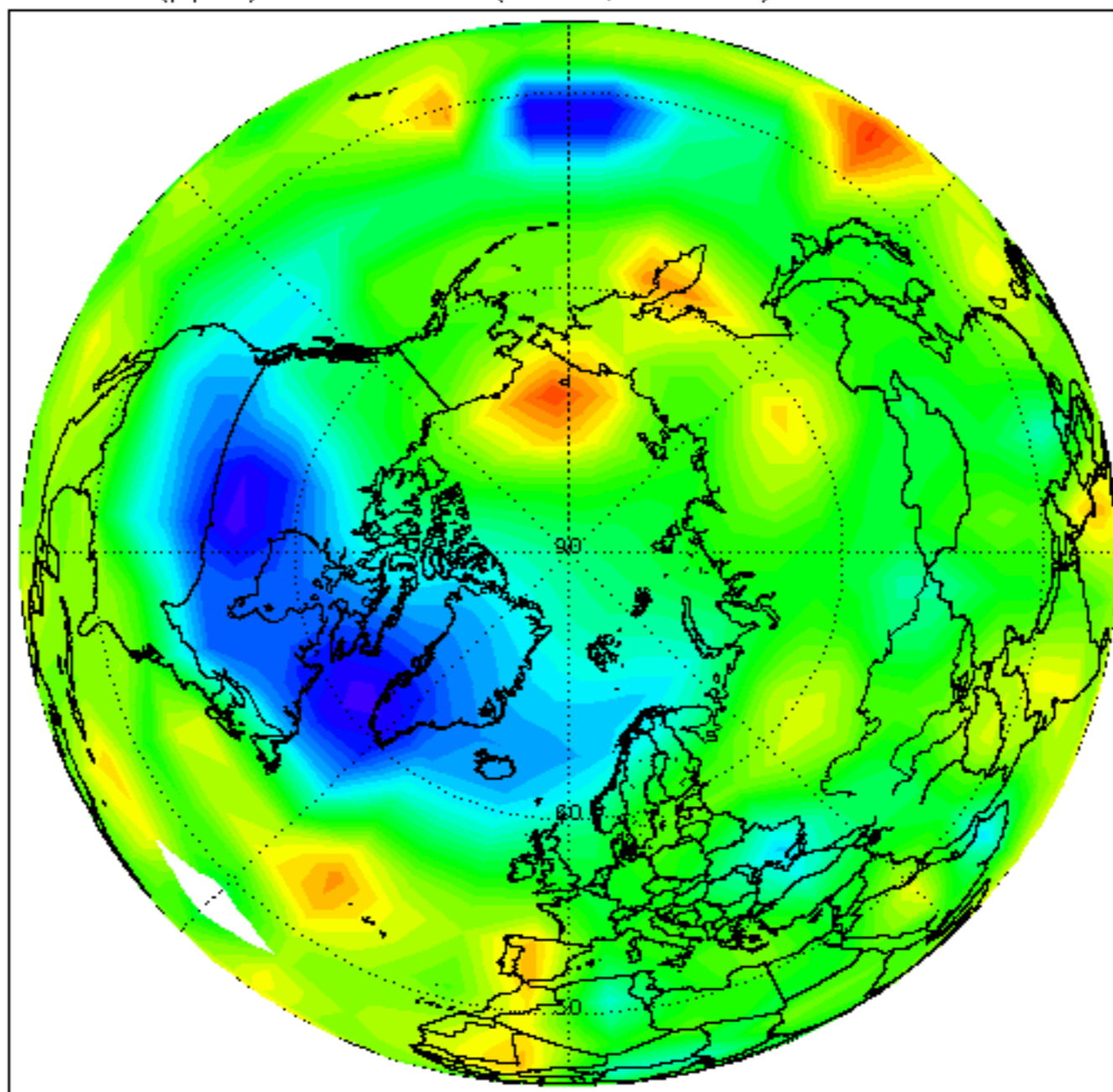
O₃ (ppm) at 2700 K (60km, 0.2hPa). 30-DEC-2011



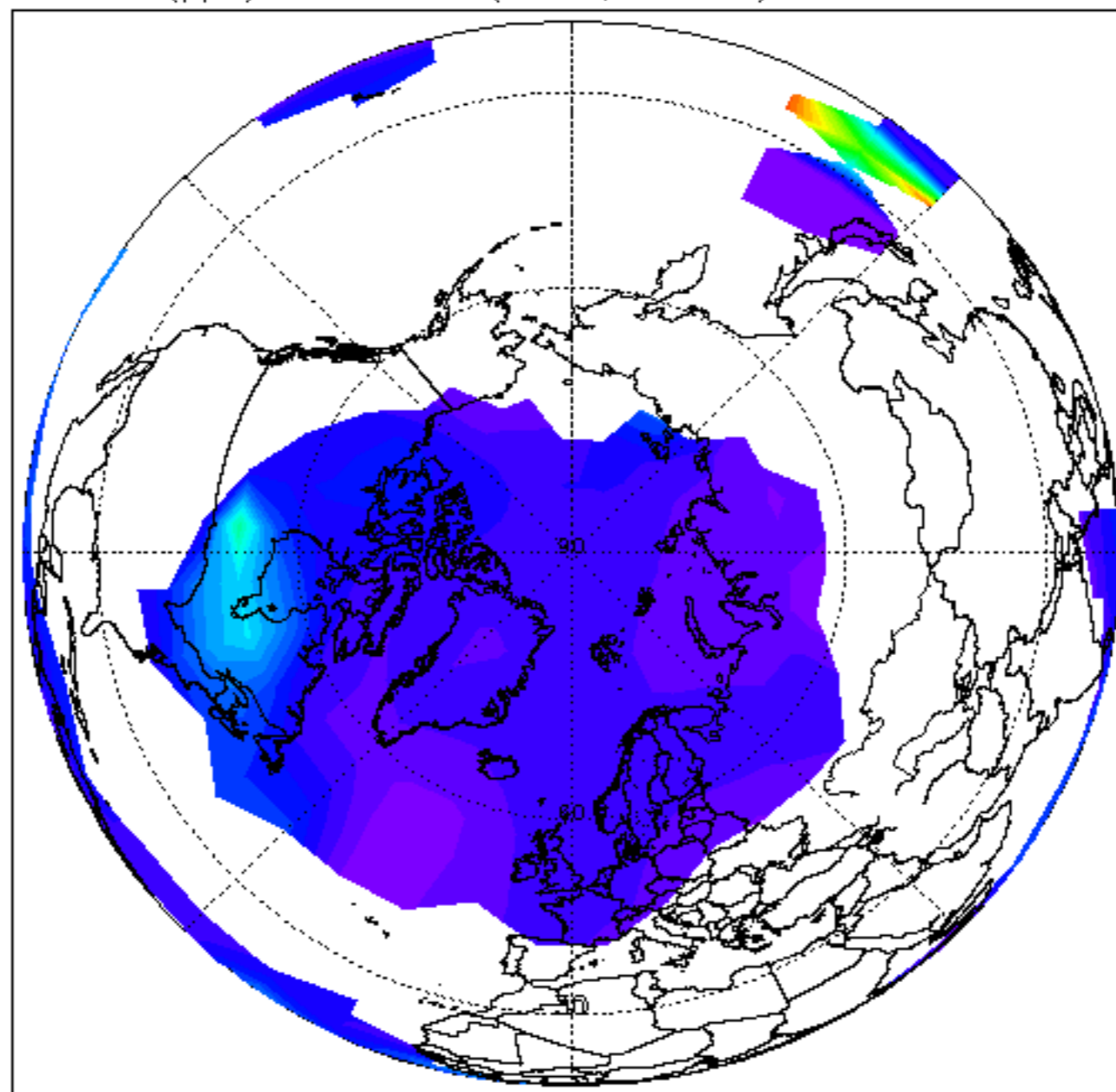
HNO₃ (ppb) at 2700 K (60km, 0.2hPa). 30-DEC-2011



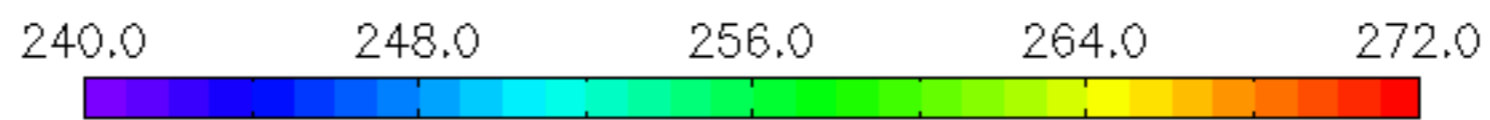
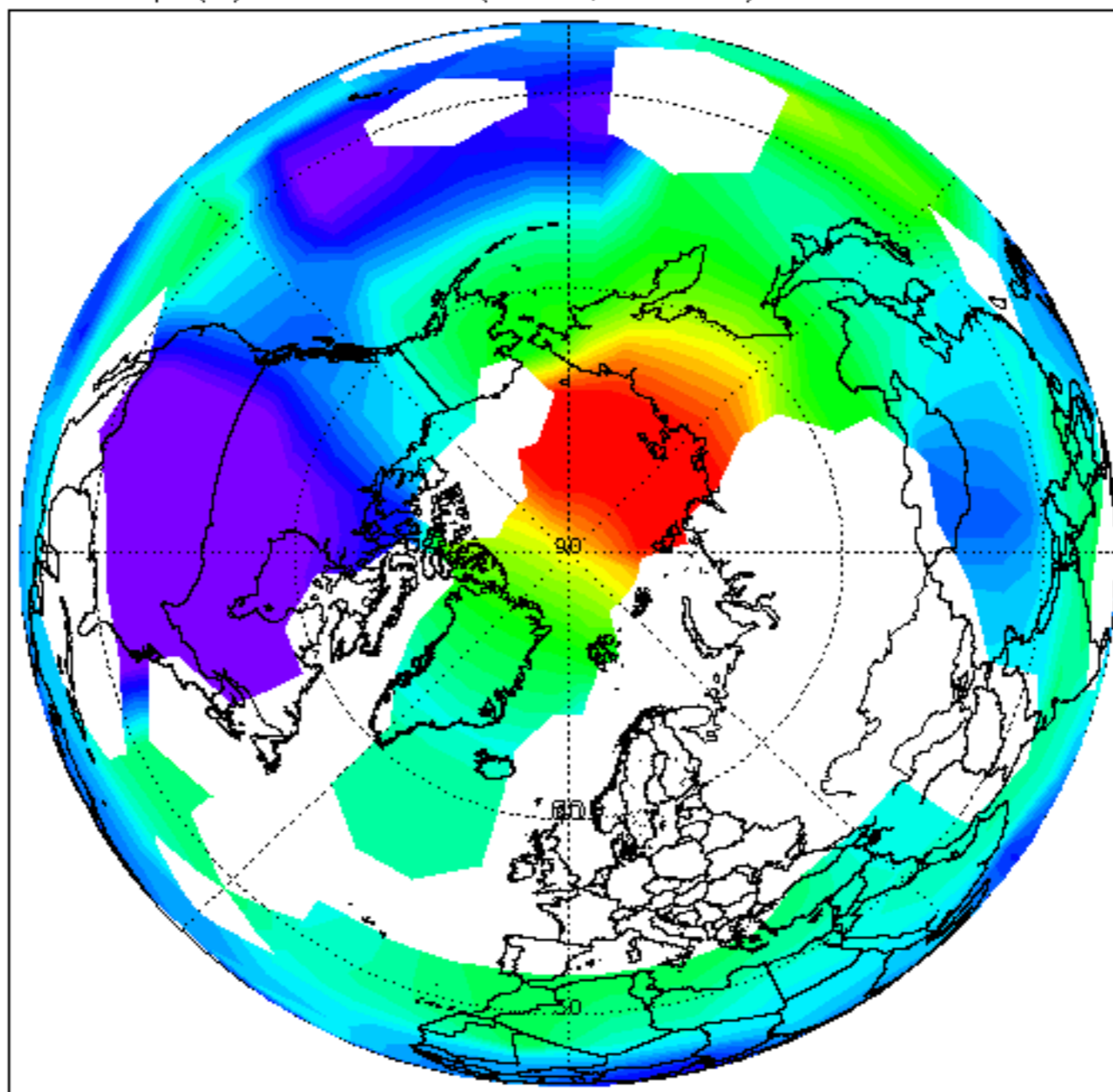
CH₄ (ppm) at 2700 K (60km, 0.2hPa). 30-DEC-2011



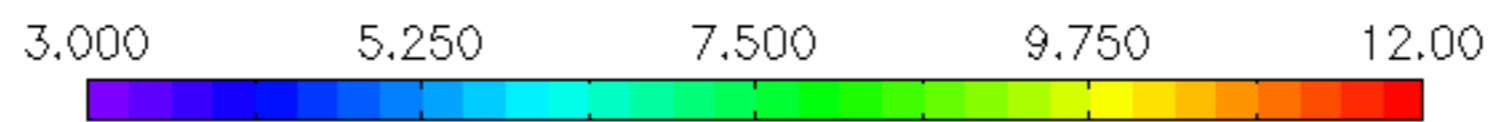
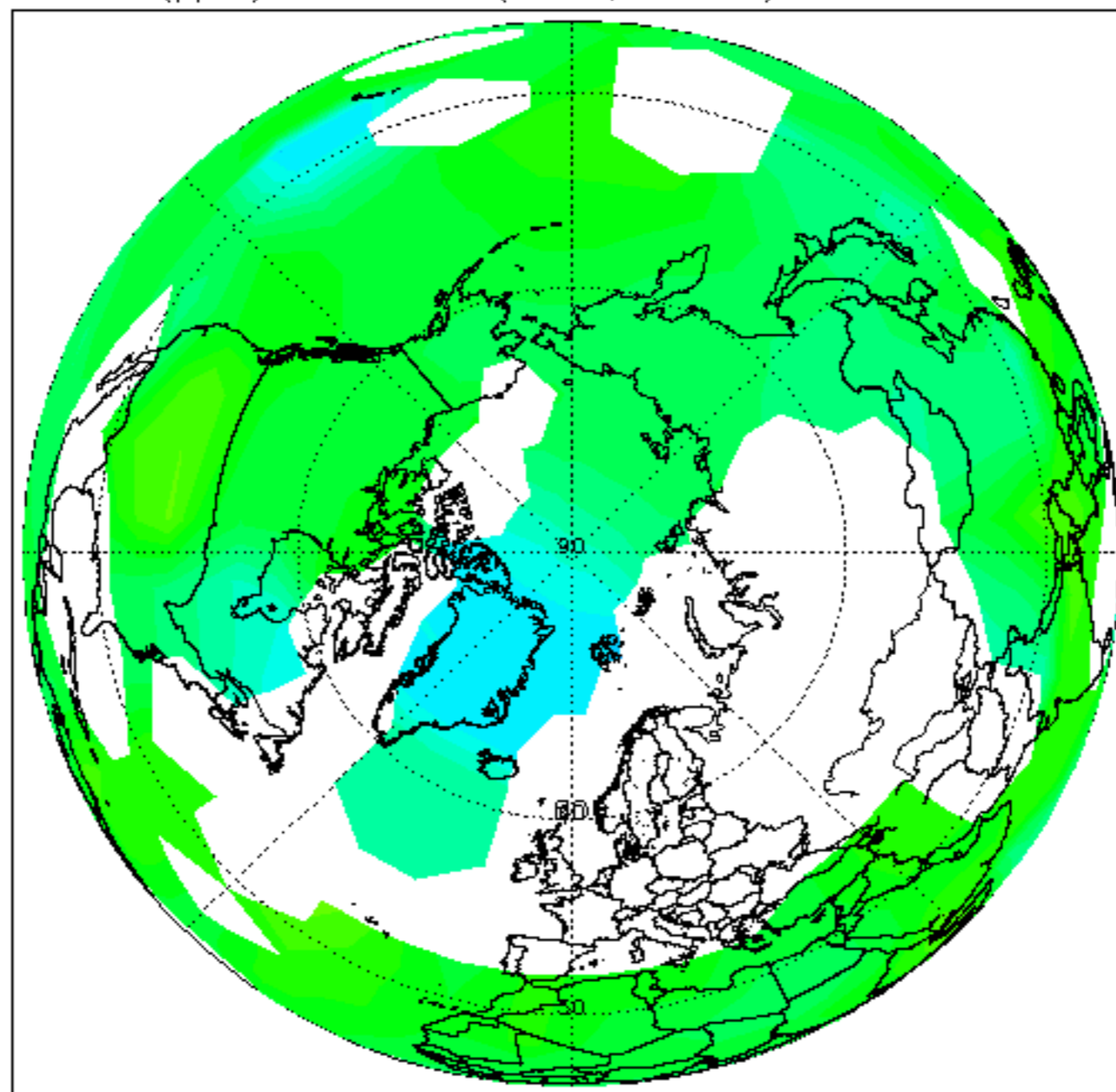
N₂O (ppb) at 2700 K (60km, 0.2hPa). 30-DEC-2011



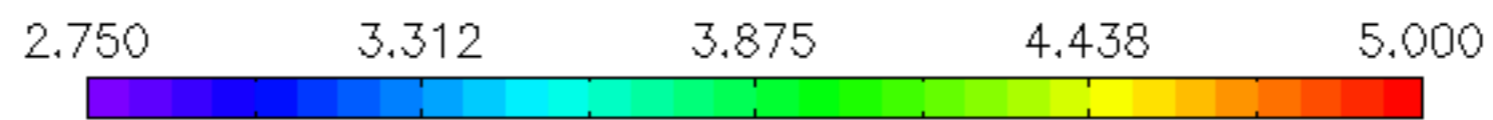
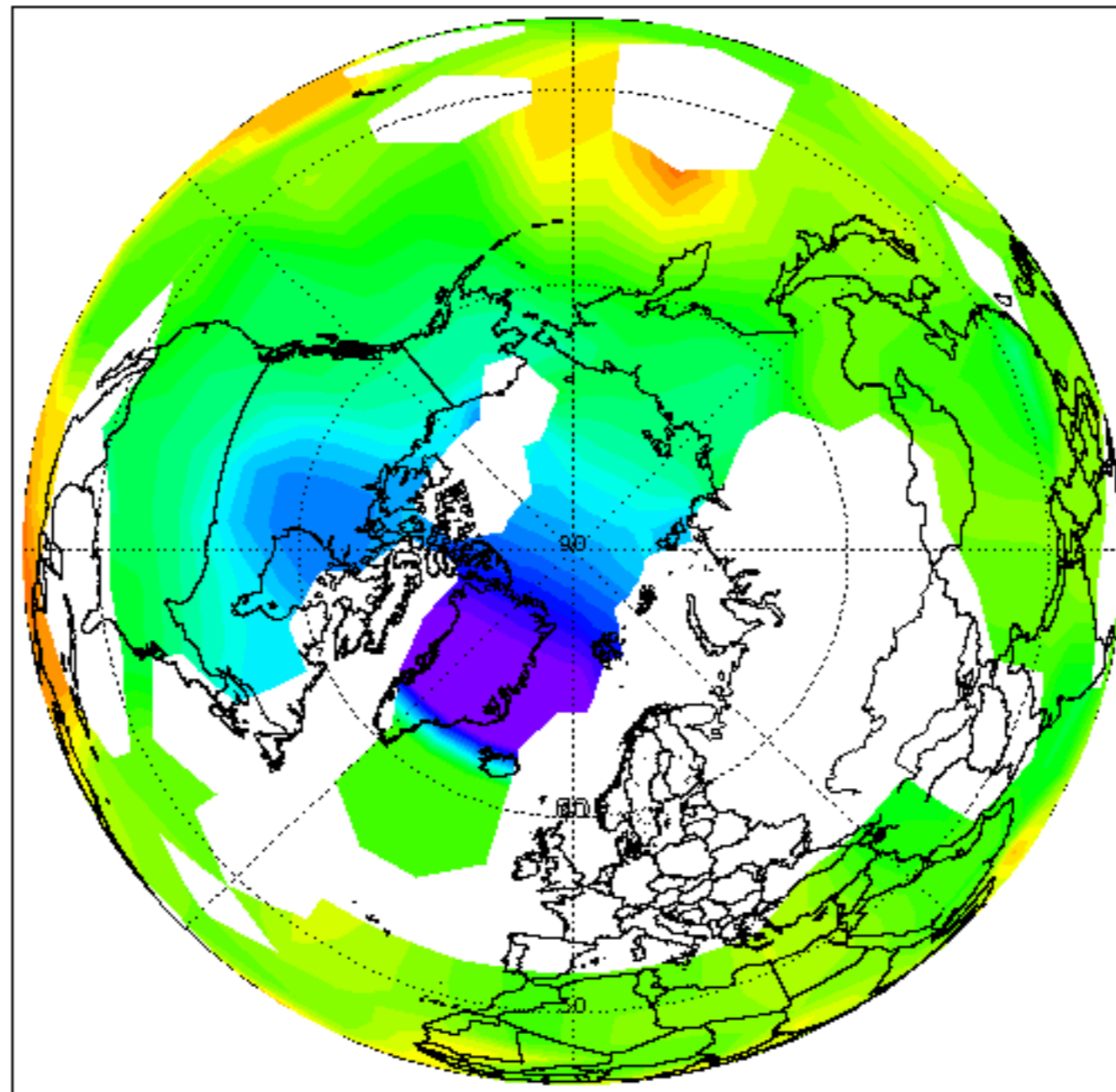
Temp (K) at 1700 K (45km, 1.5hPa). 30-DEC-2011



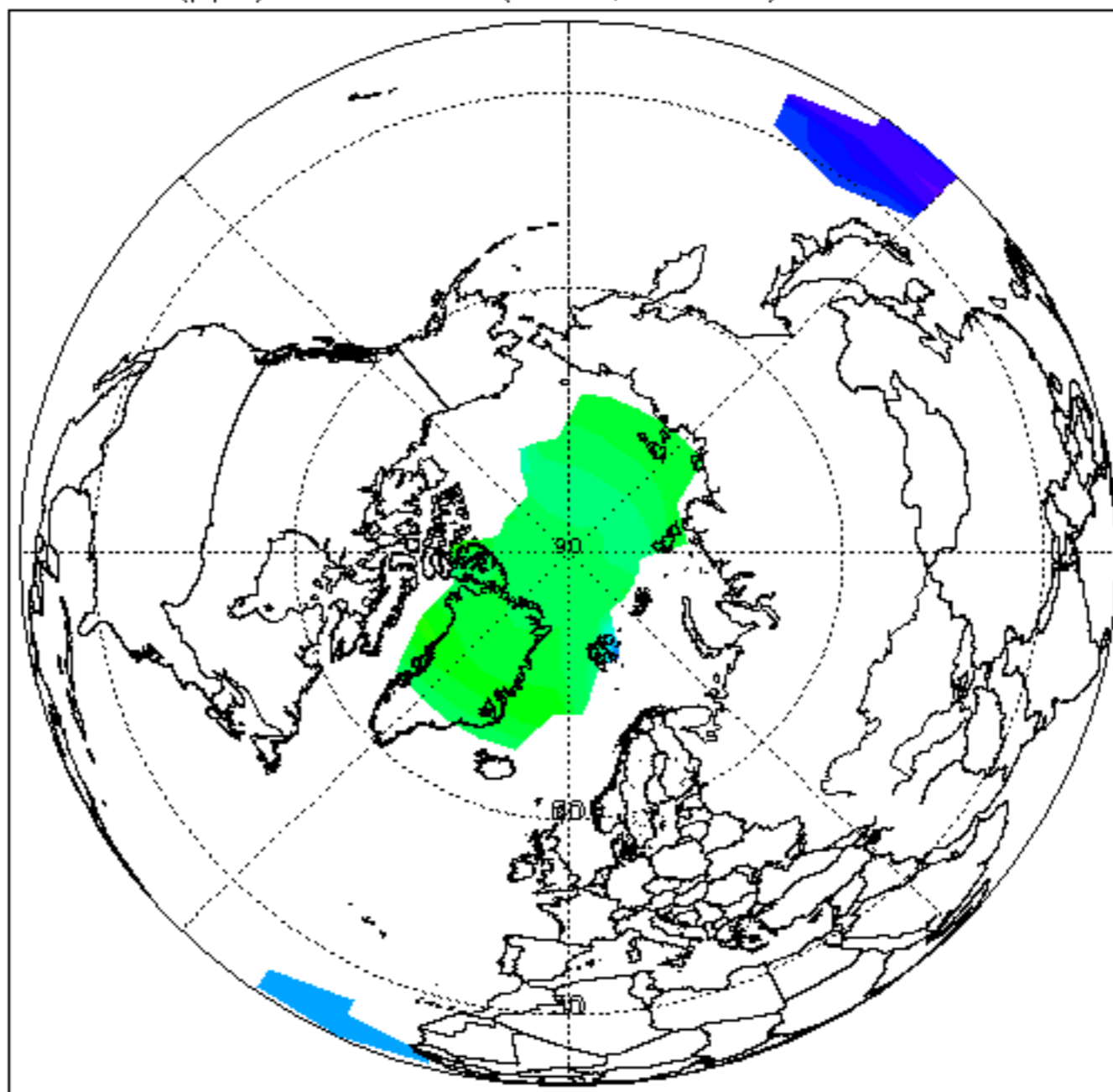
H₂O (ppm) at 1700 K (45km, 1.5hPa). 30-DEC-2011



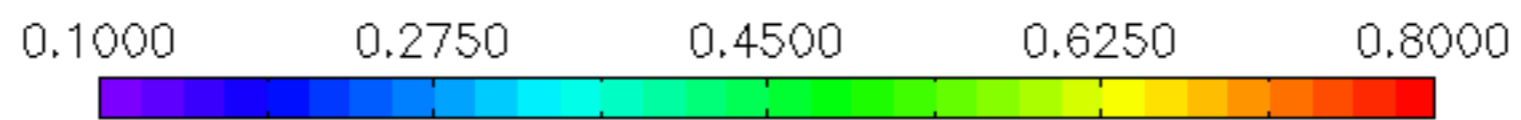
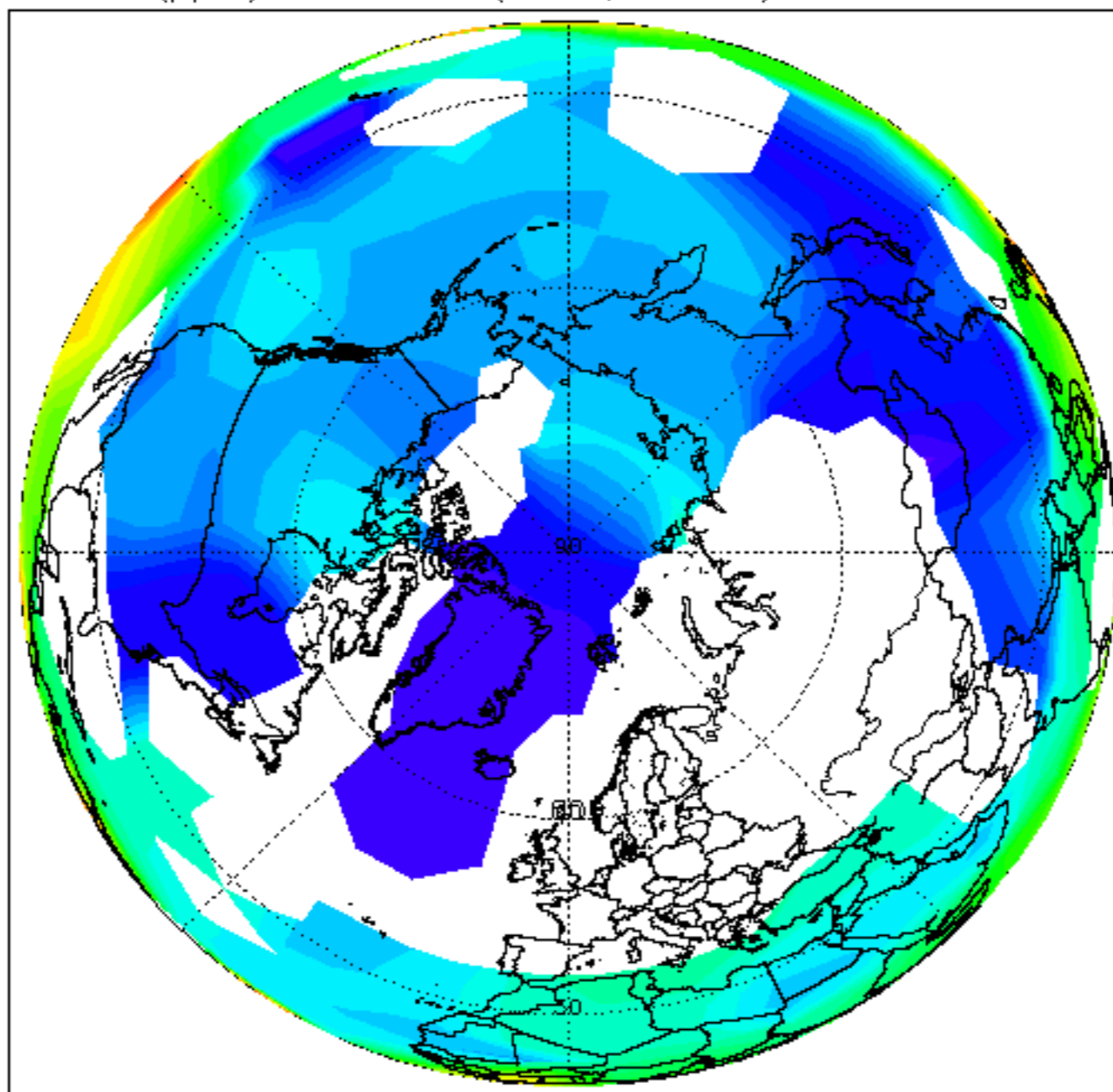
O3 (ppm) at 1700 K (45km, 1.5hPa). 30-DEC-2011



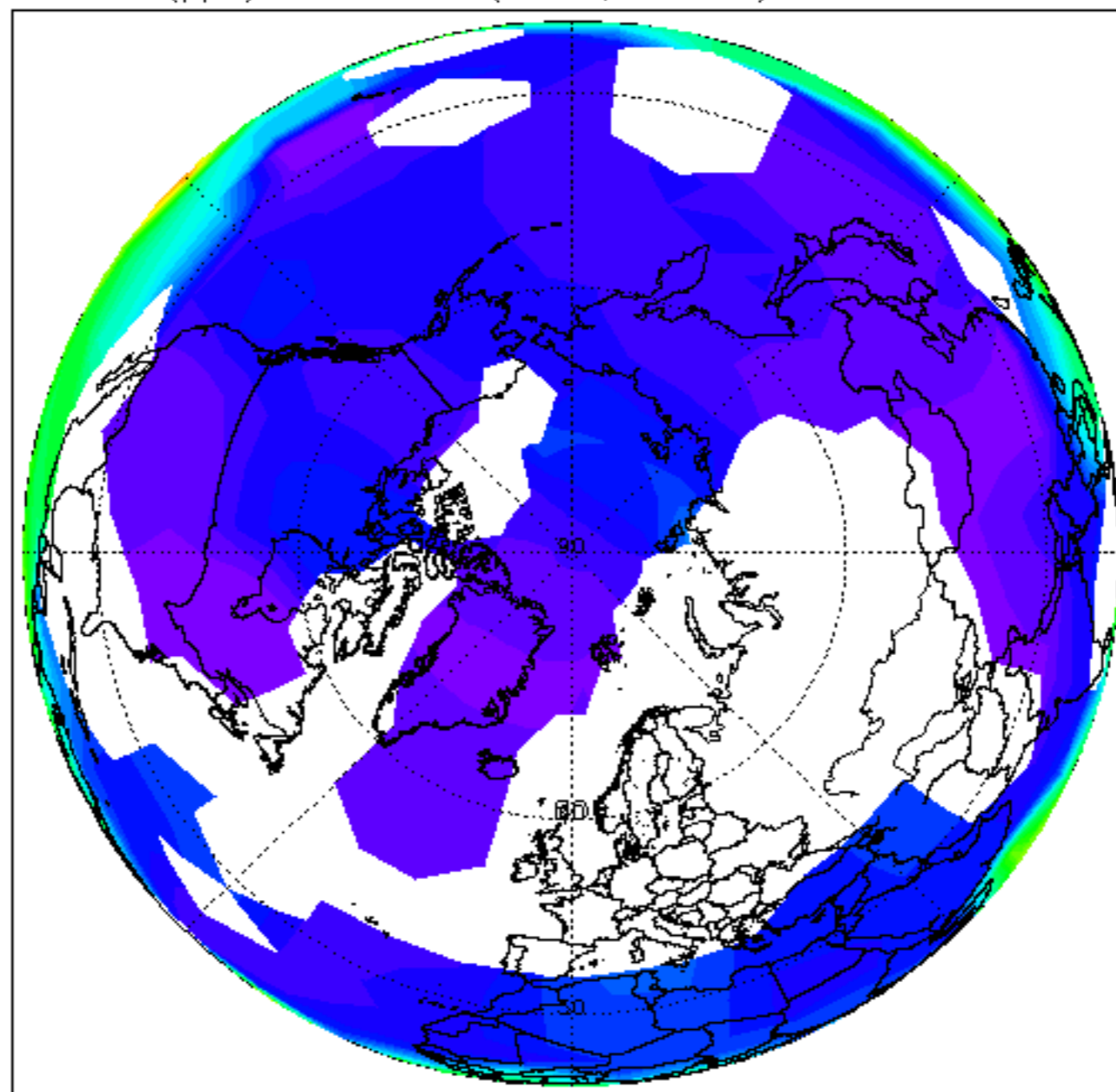
HNO₃ (ppb) at 1700 K (45km, 1.5hPa). 30-DEC-2011



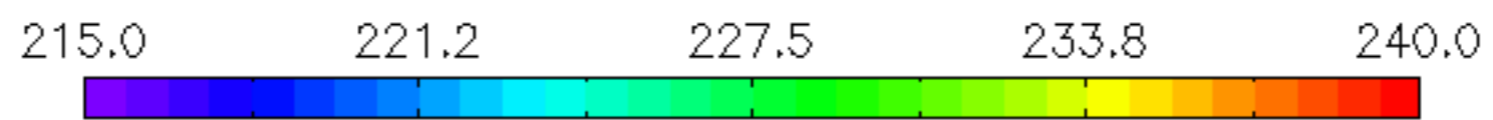
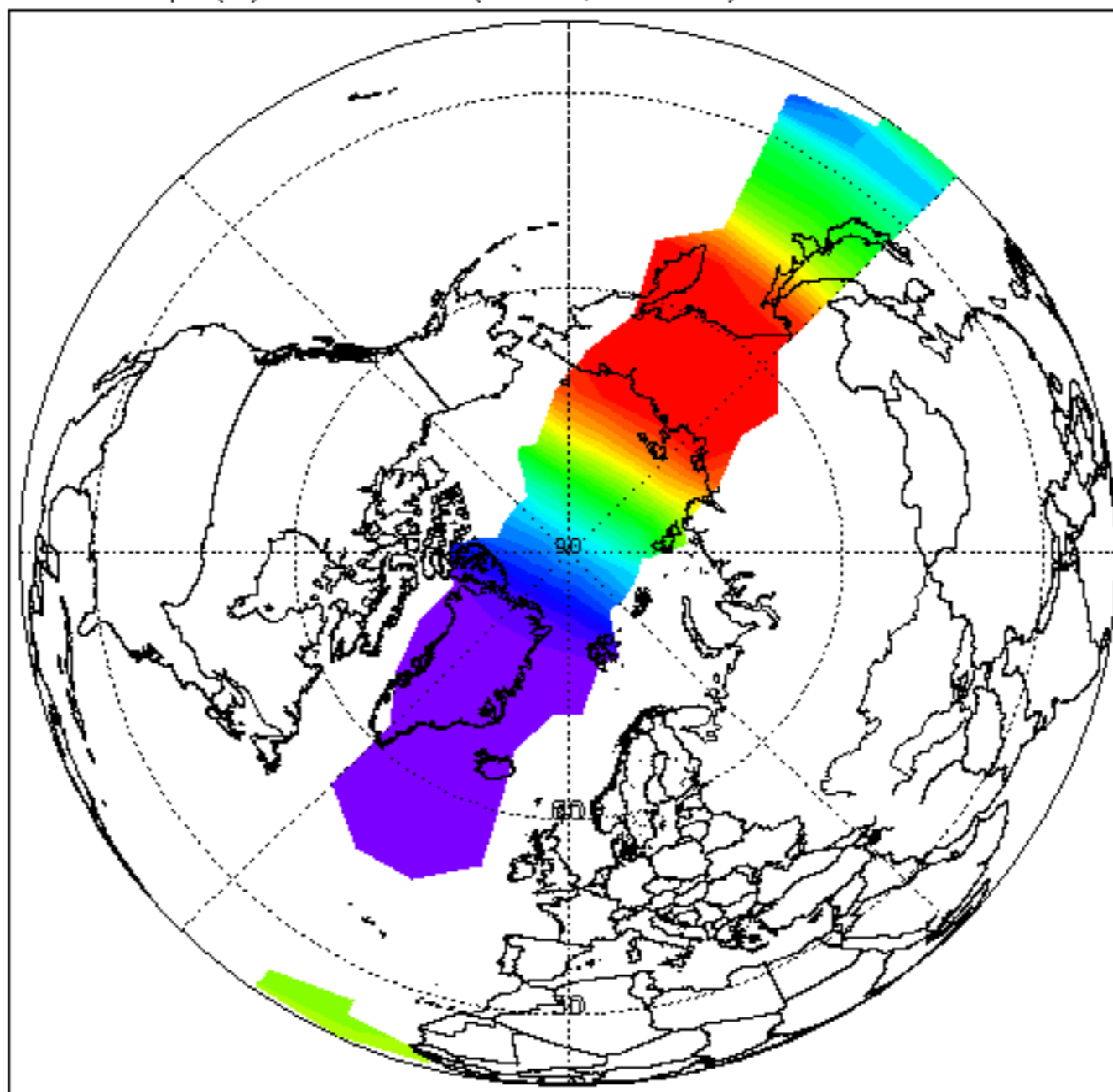
CH₄ (ppm) at 1700 K (45km, 1.5hPa). 30-DEC-2011



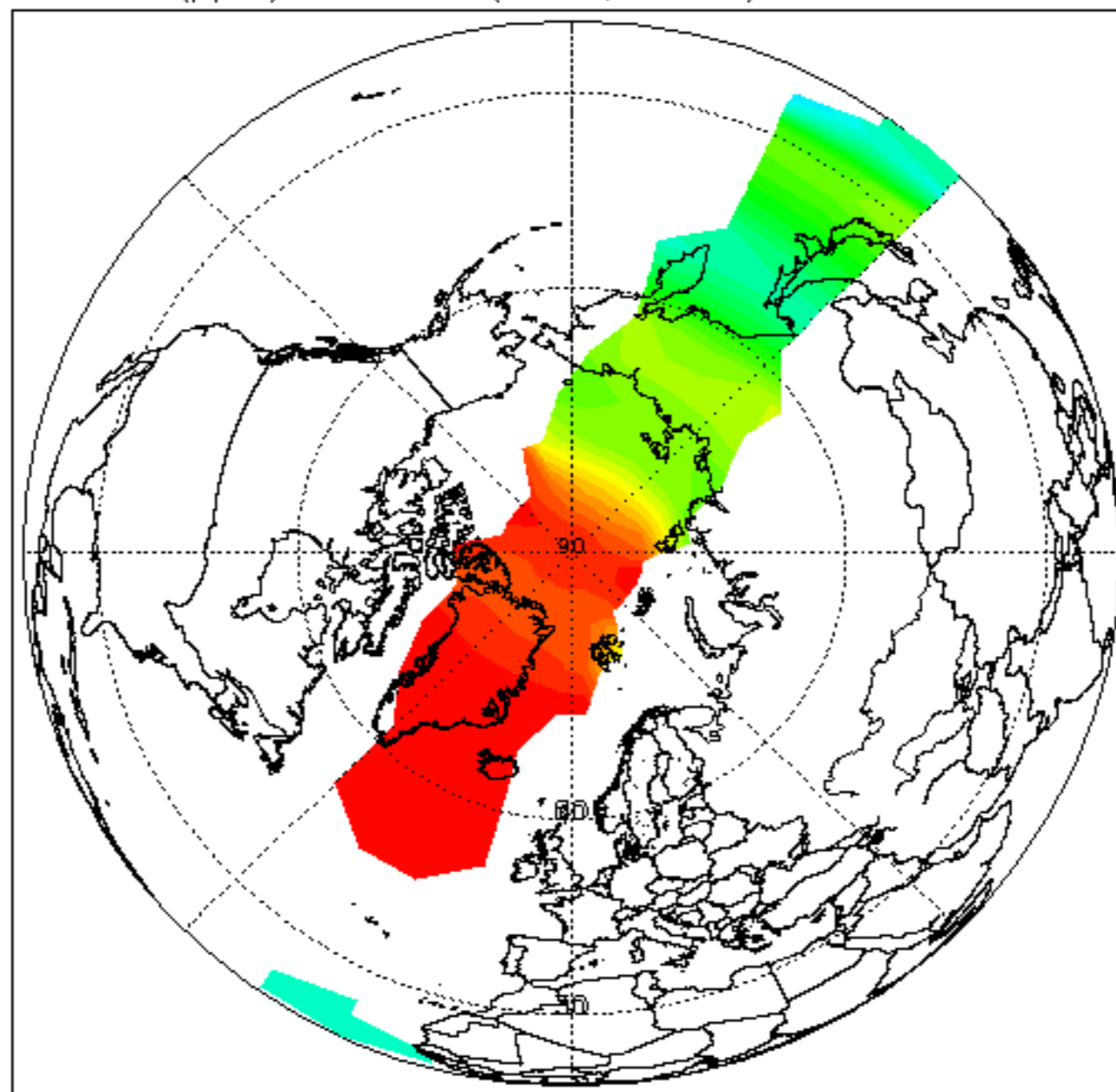
N₂O (ppb) at 1700 K (45km, 1.5hPa). 30-DEC-2011



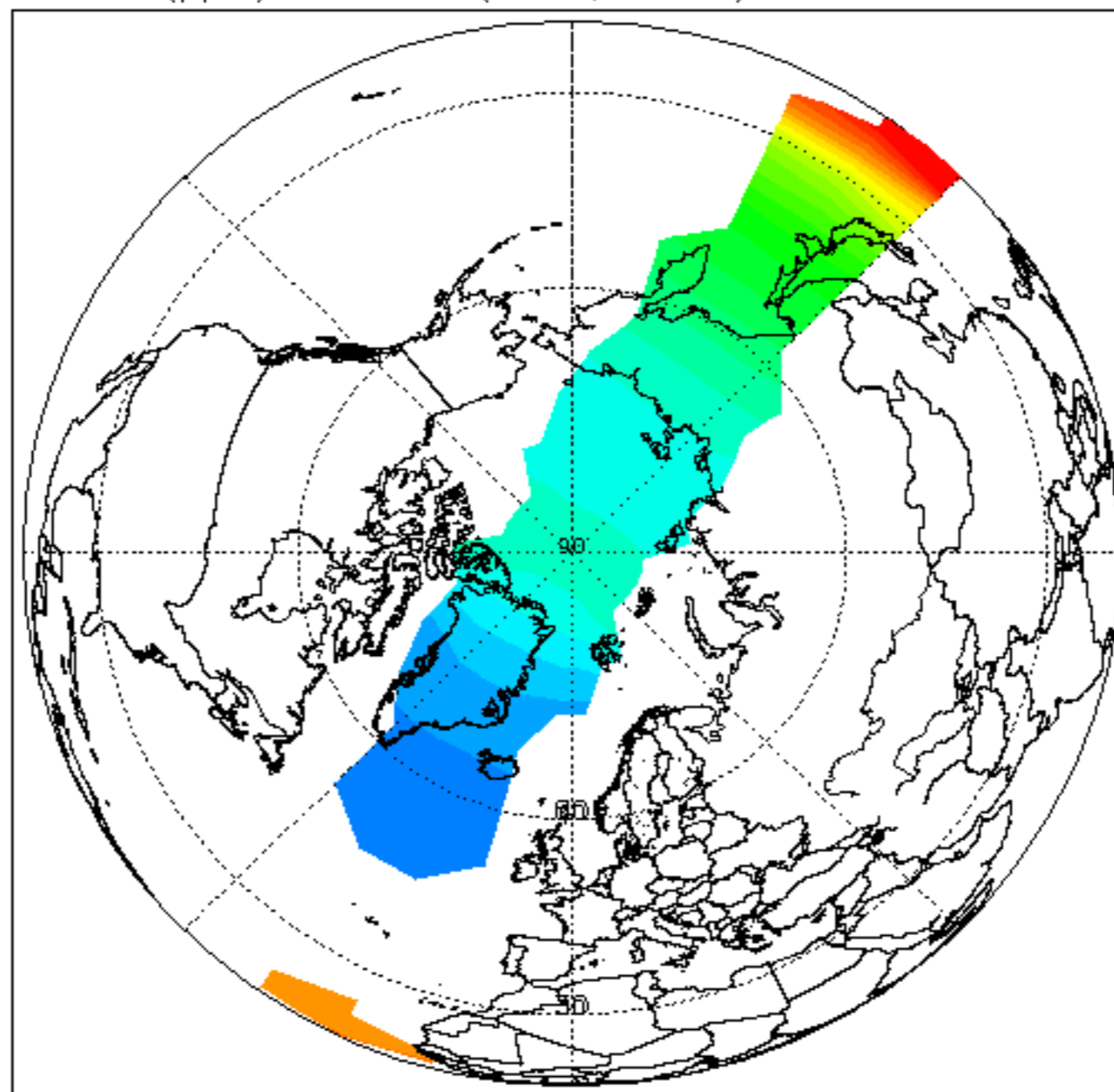
Temp (K) at 850 K (32km, 10hPa). 30-DEC-2011



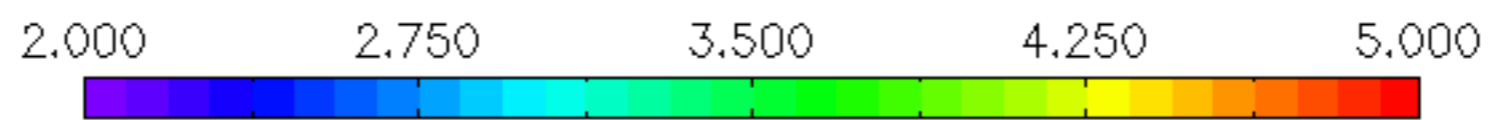
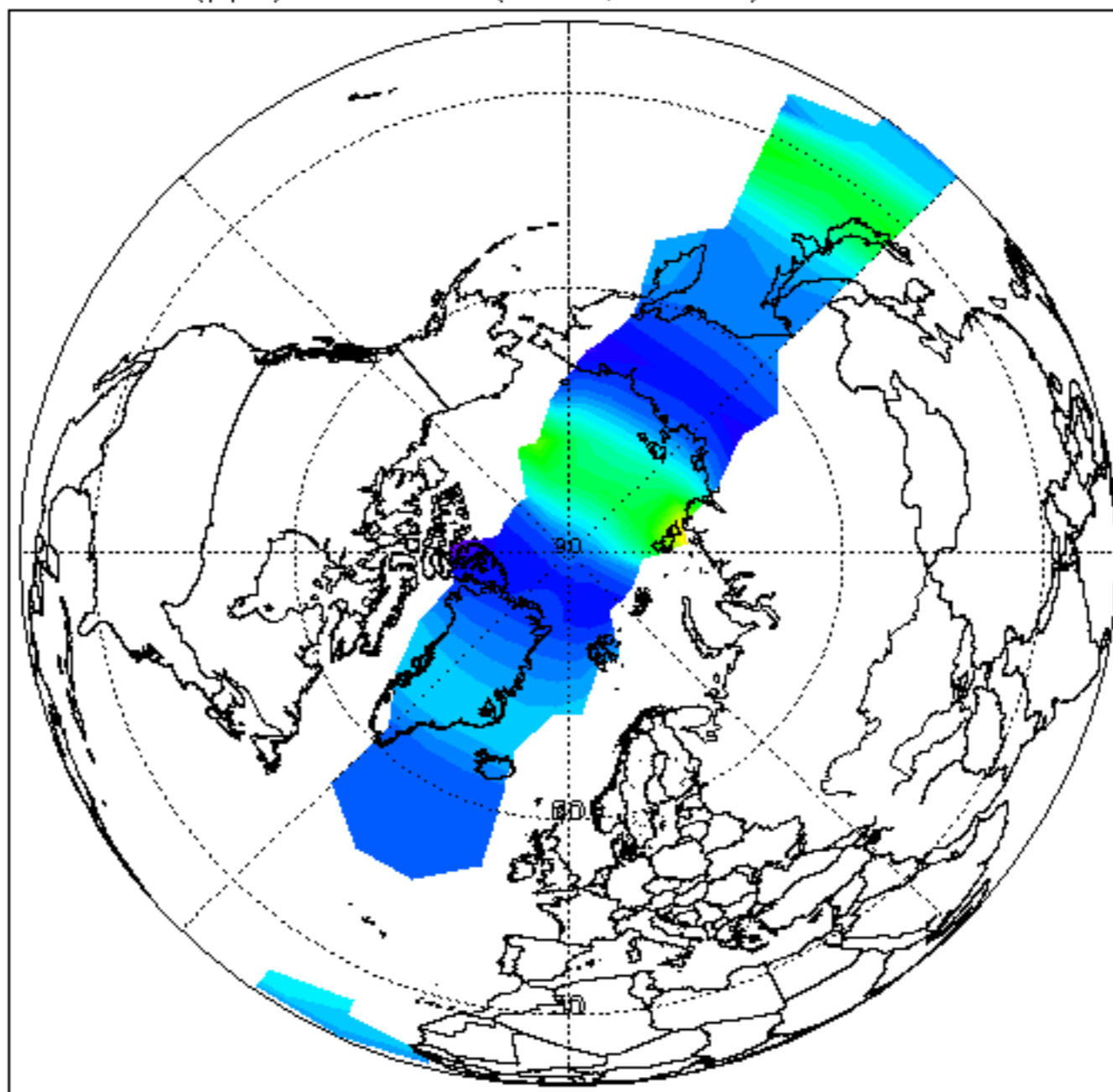
H₂O (ppm) at 850 K (32km, 10hPa). 30-DEC-2011



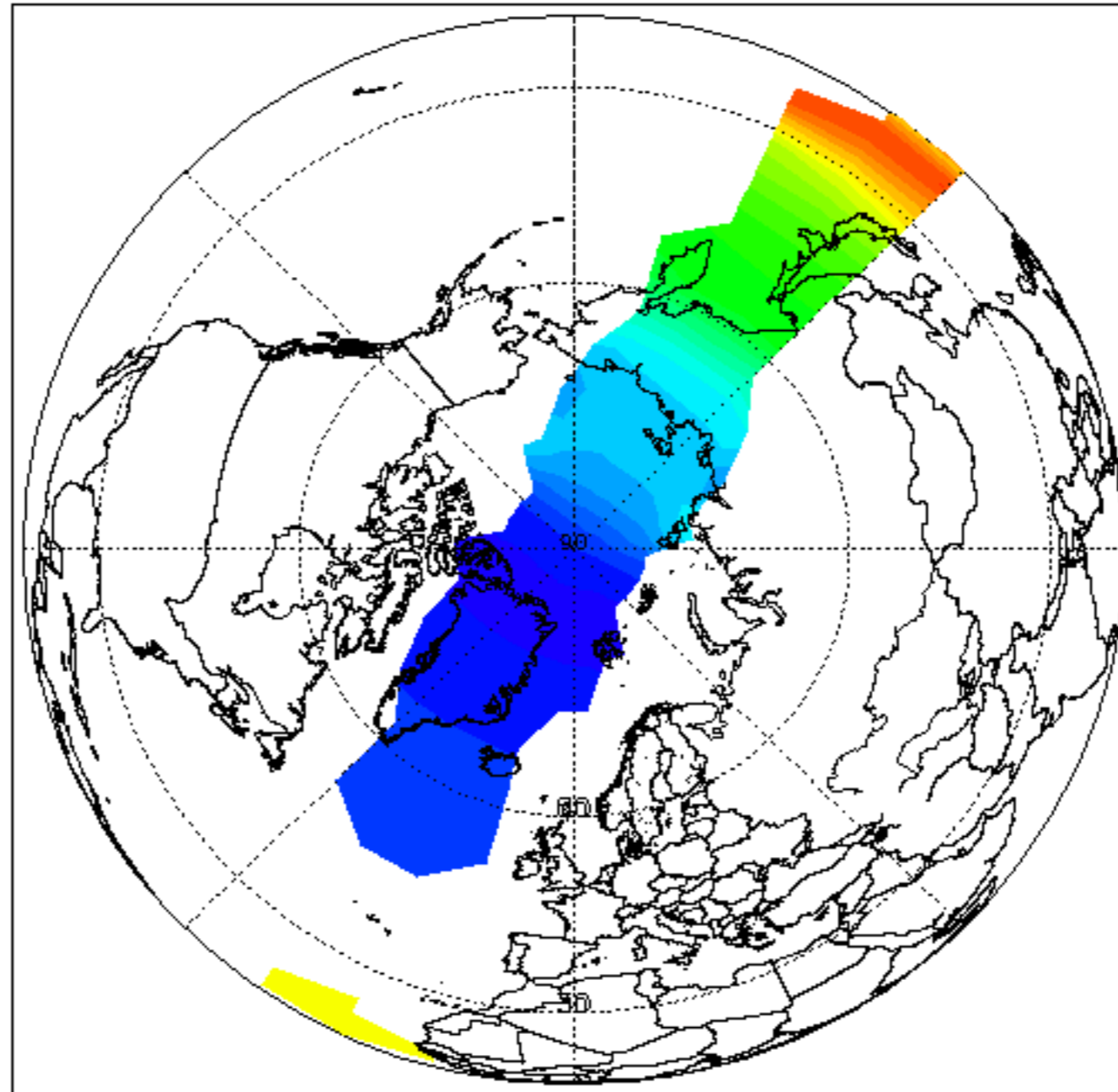
O₃ (ppm) at 850 K (32km, 10hPa). 30-DEC-2011



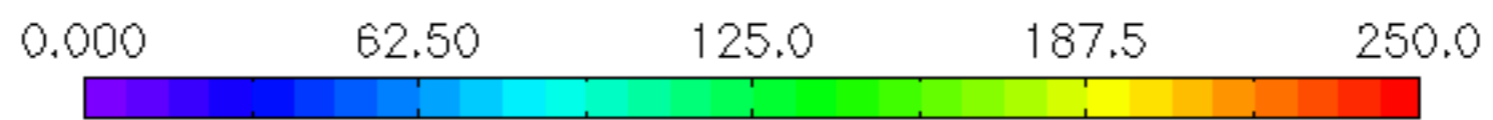
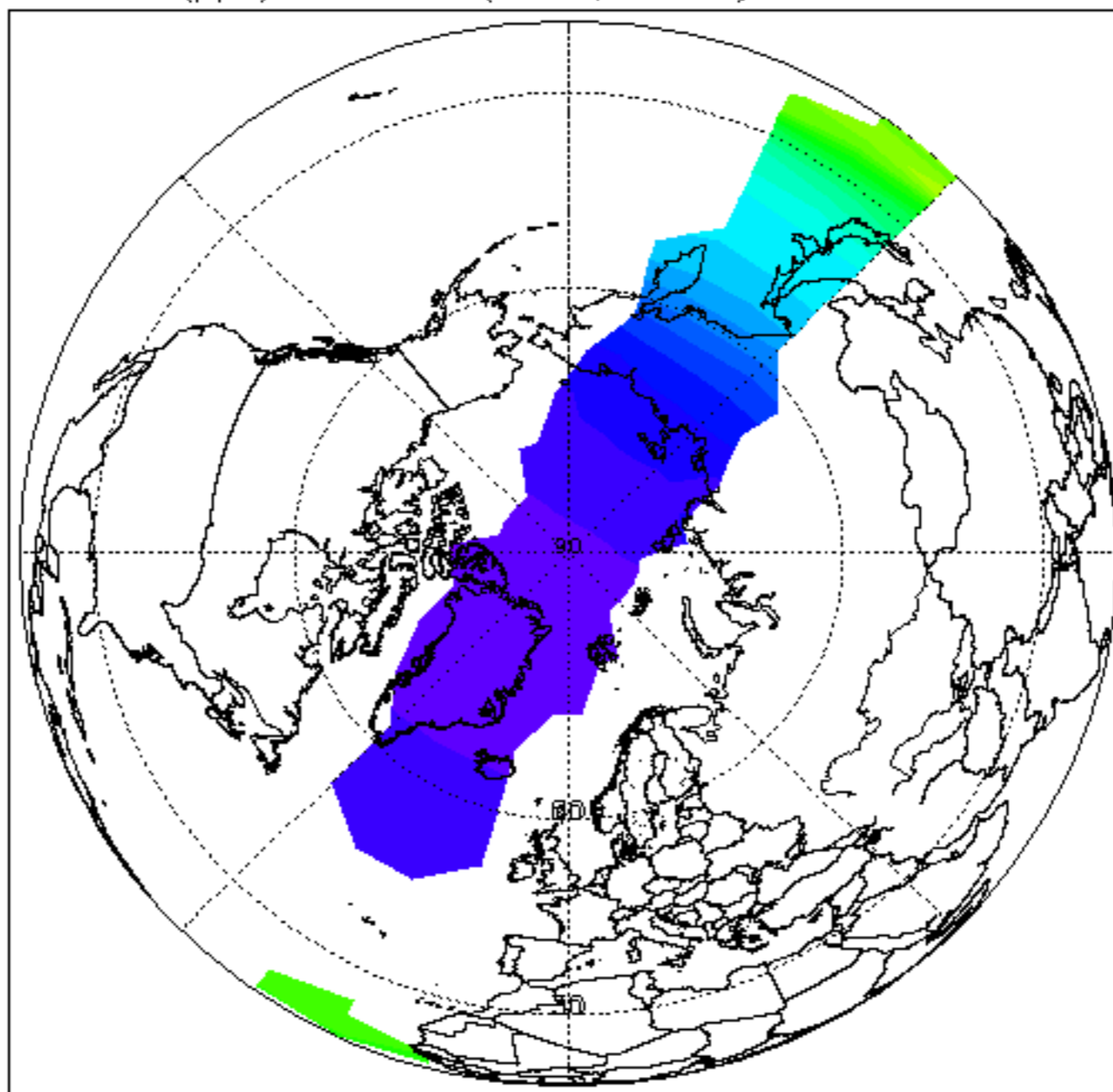
HNO₃ (ppb) at 850 K (32km, 10hPa). 30-DEC-2011



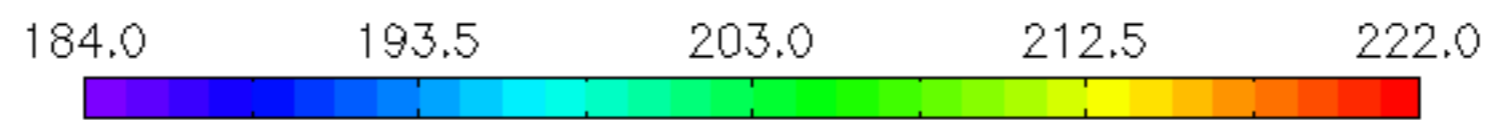
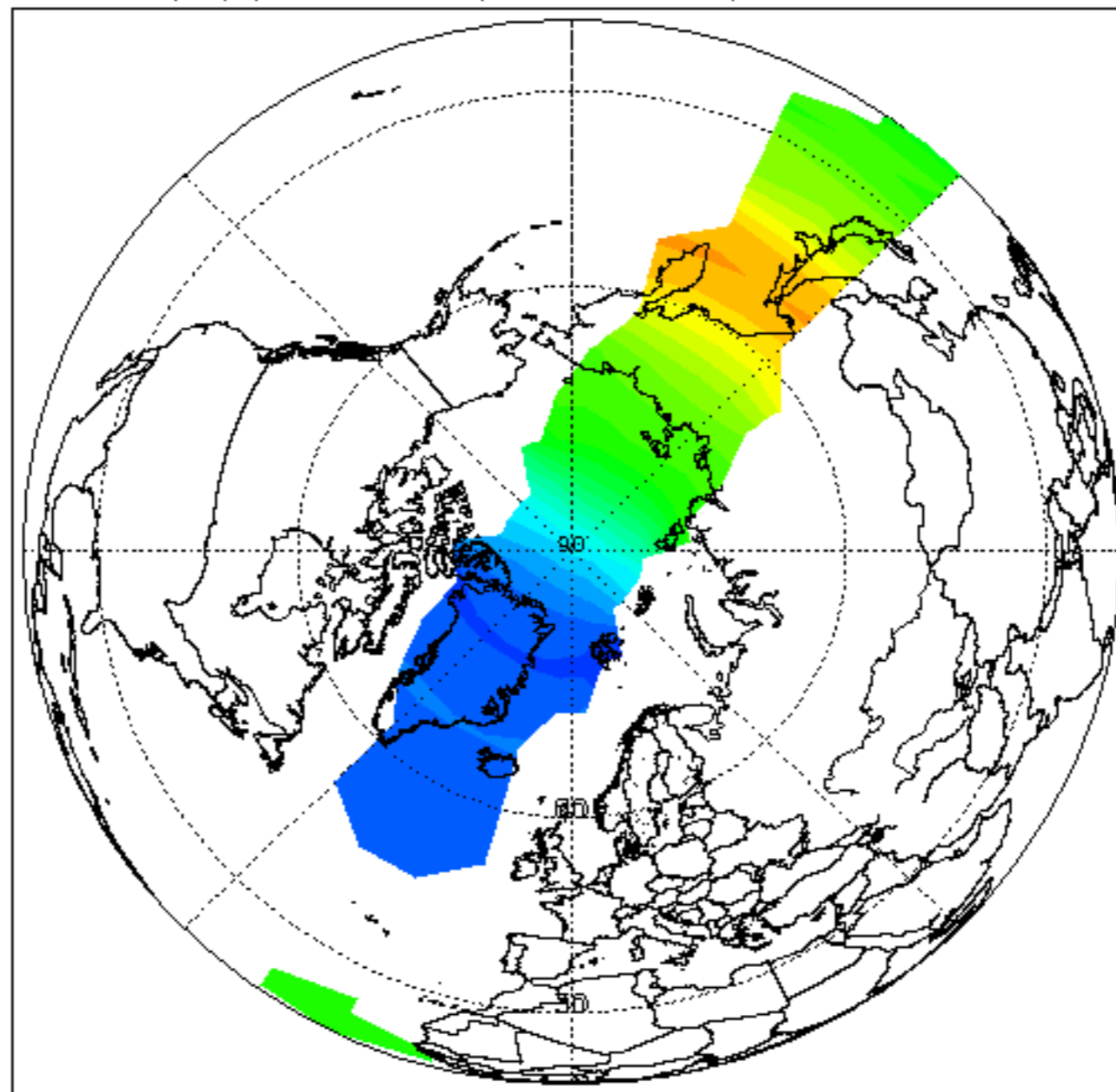
CH₄ (ppm) at 850 K (32km, 10hPa). 30-DEC-2011



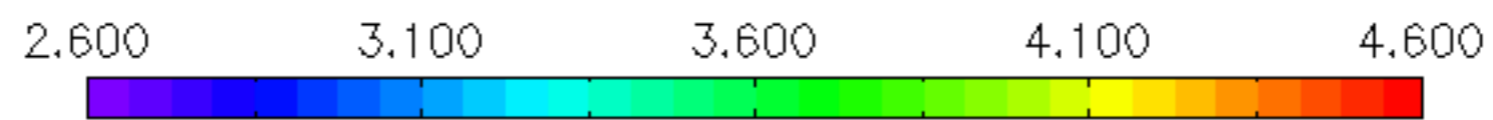
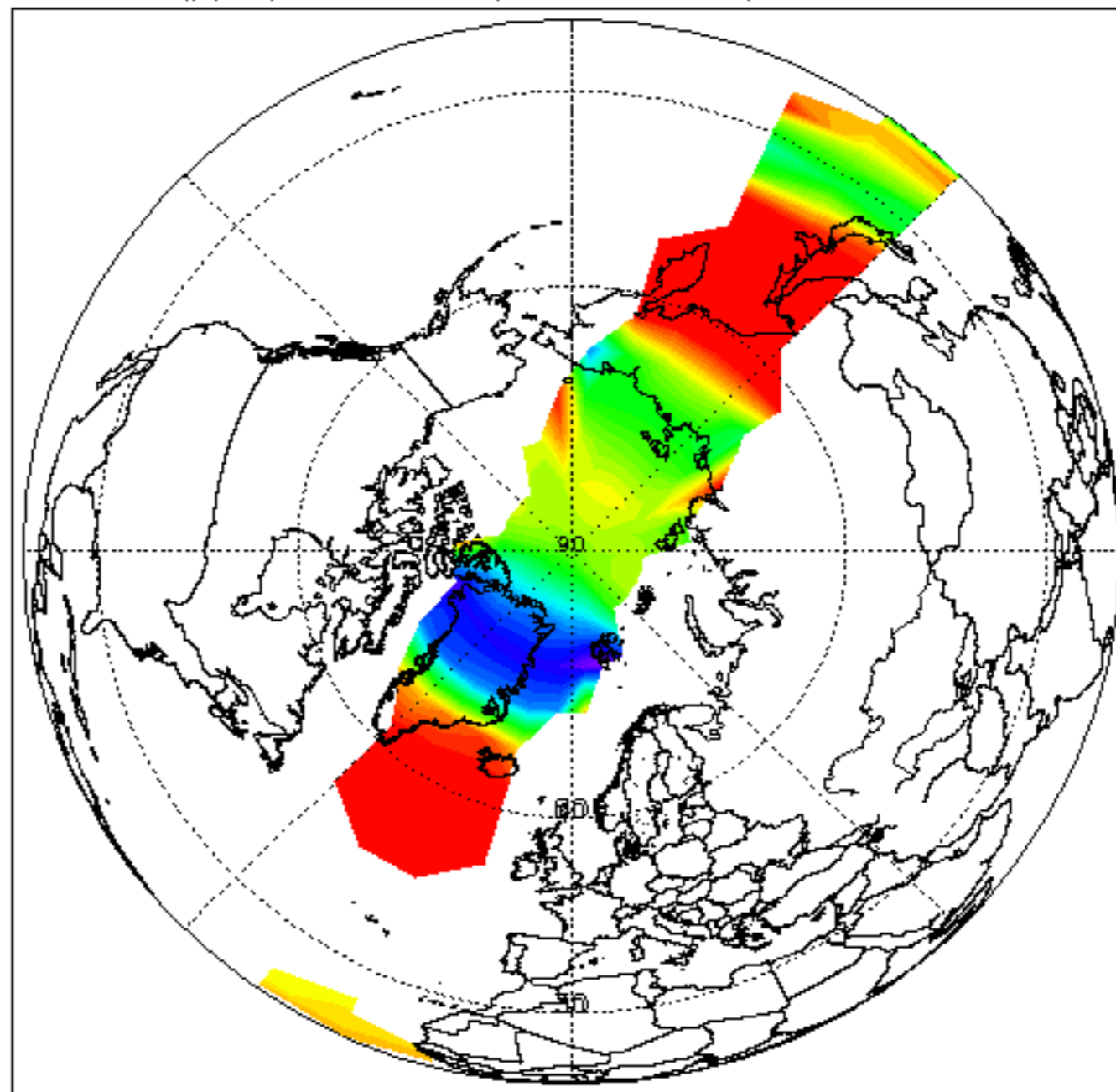
N₂O (ppb) at 850 K (32km, 10hPa). 30-DEC-2011



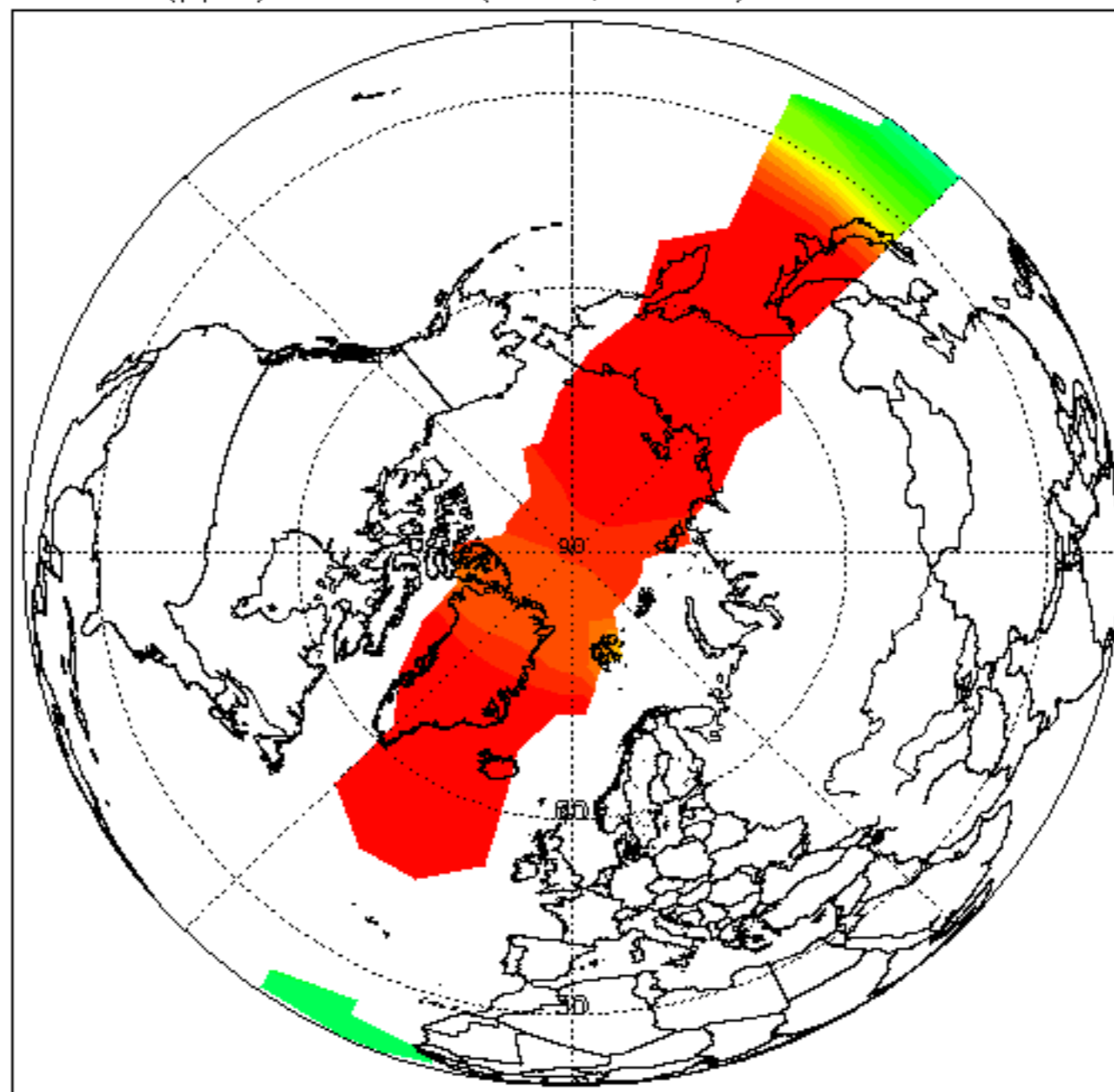
Temp (K) at 490 K (19km, 55hPa). 30-DEC-2011



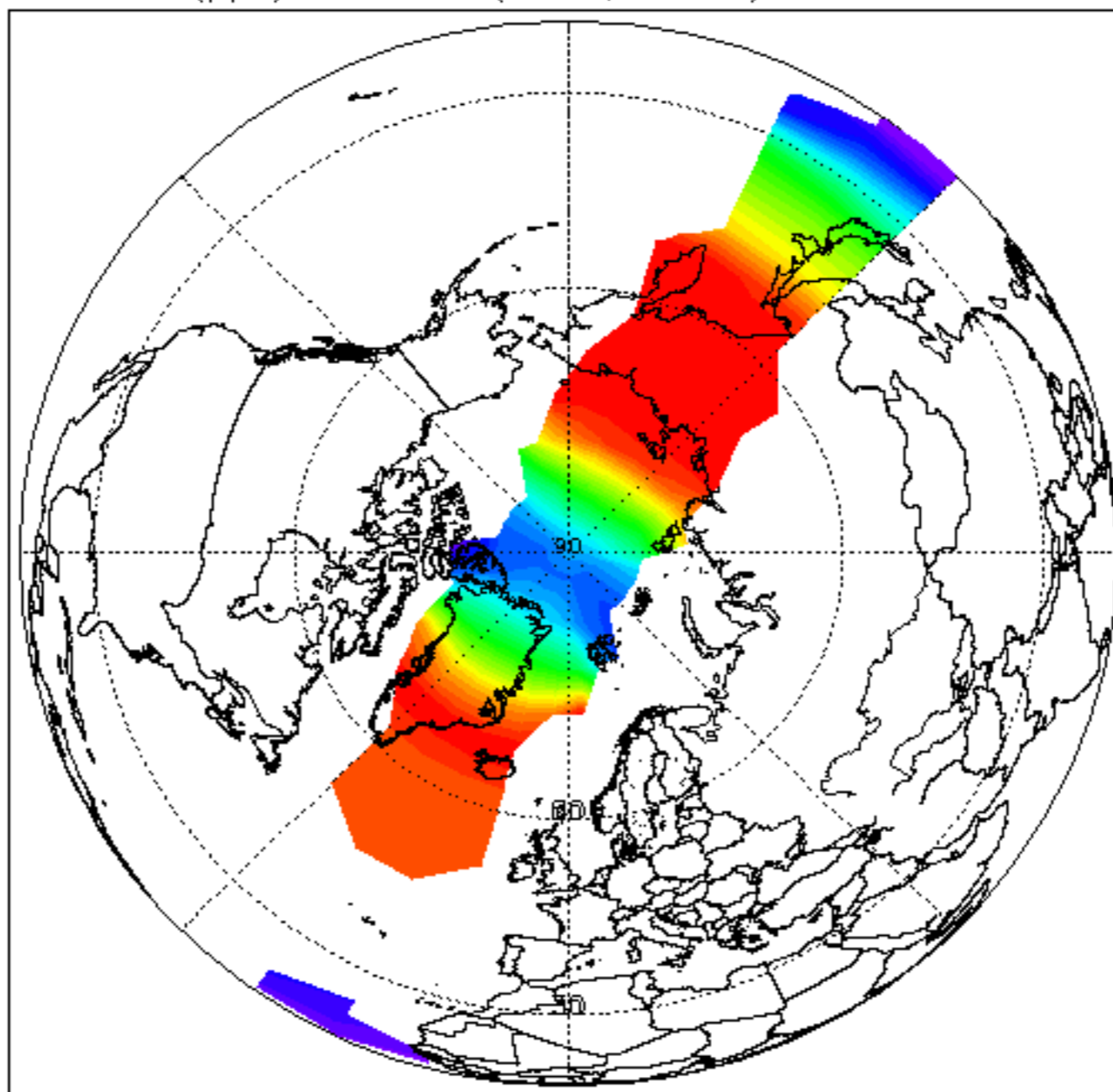
H₂O (ppm) at 490 K (19km, 55hPa). 30-DEC-2011



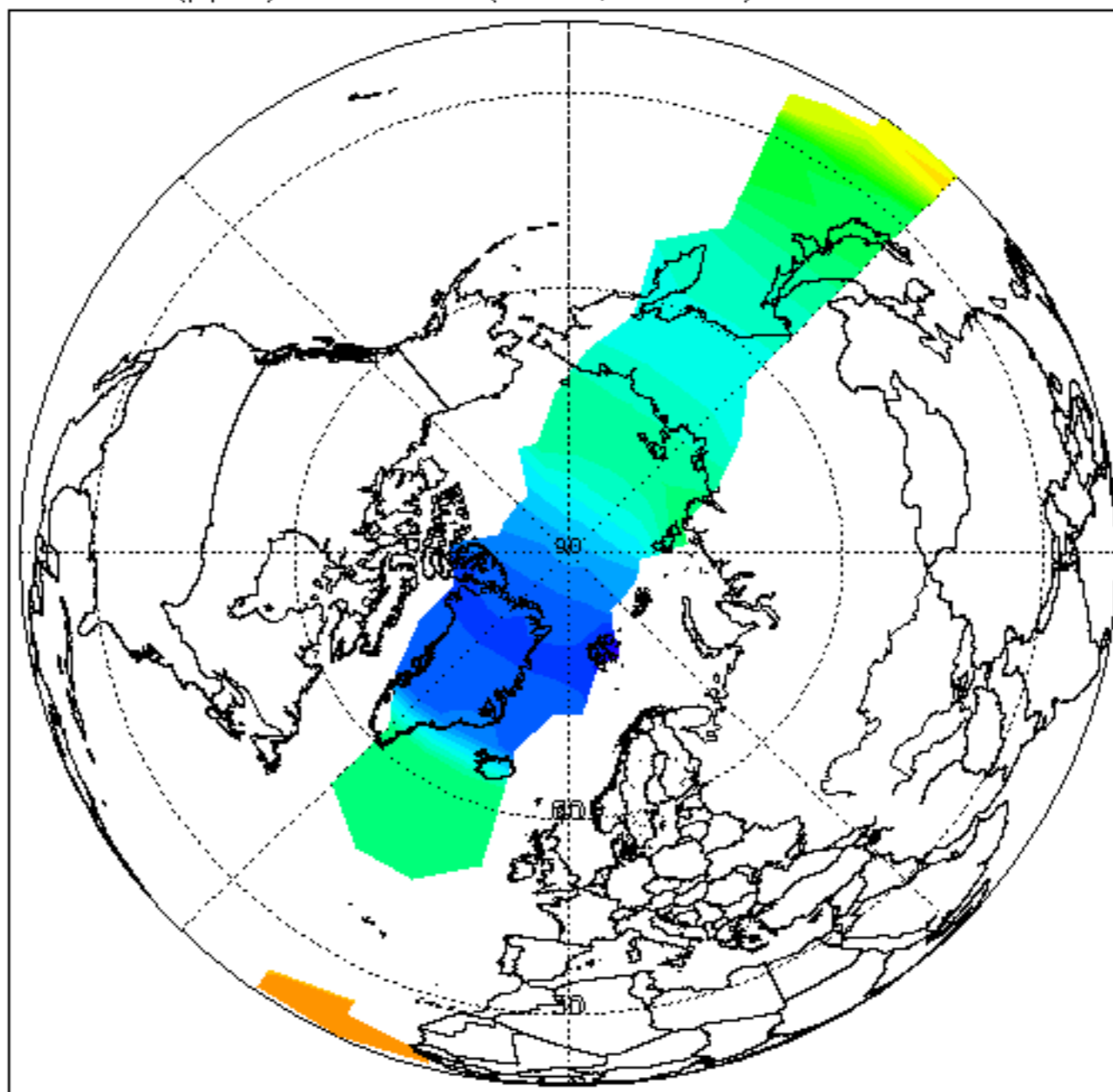
O3 (ppm) at 490 K (19km, 55hPa). 30-DEC-2011



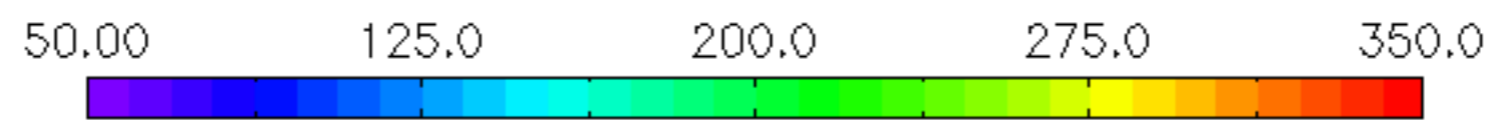
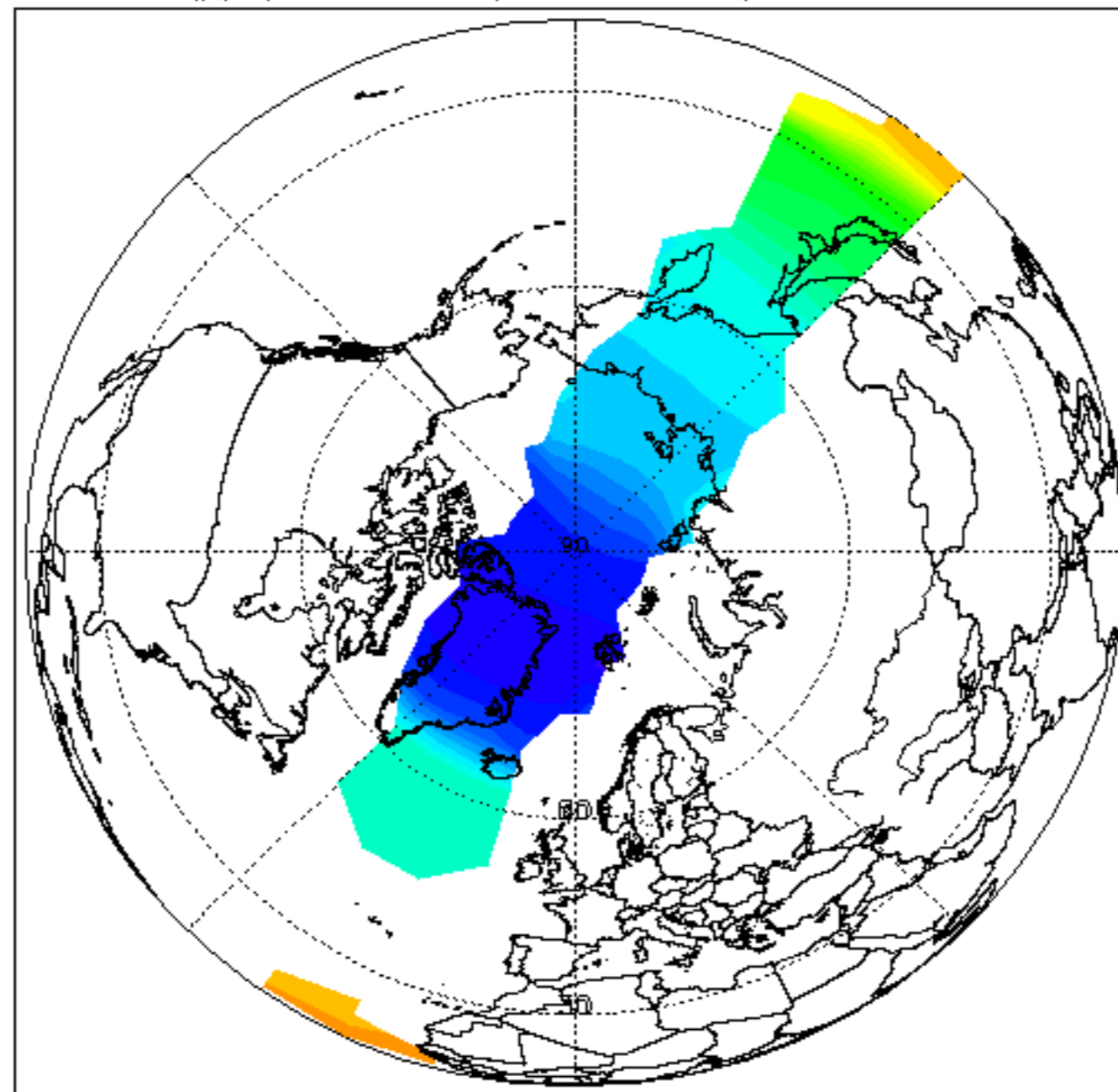
HNO₃ (ppb) at 490 K (19km, 55hPa). 30-DEC-2011



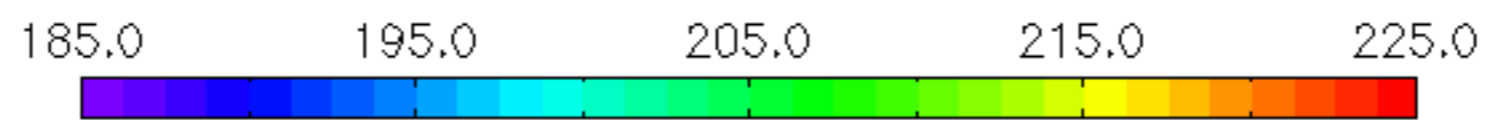
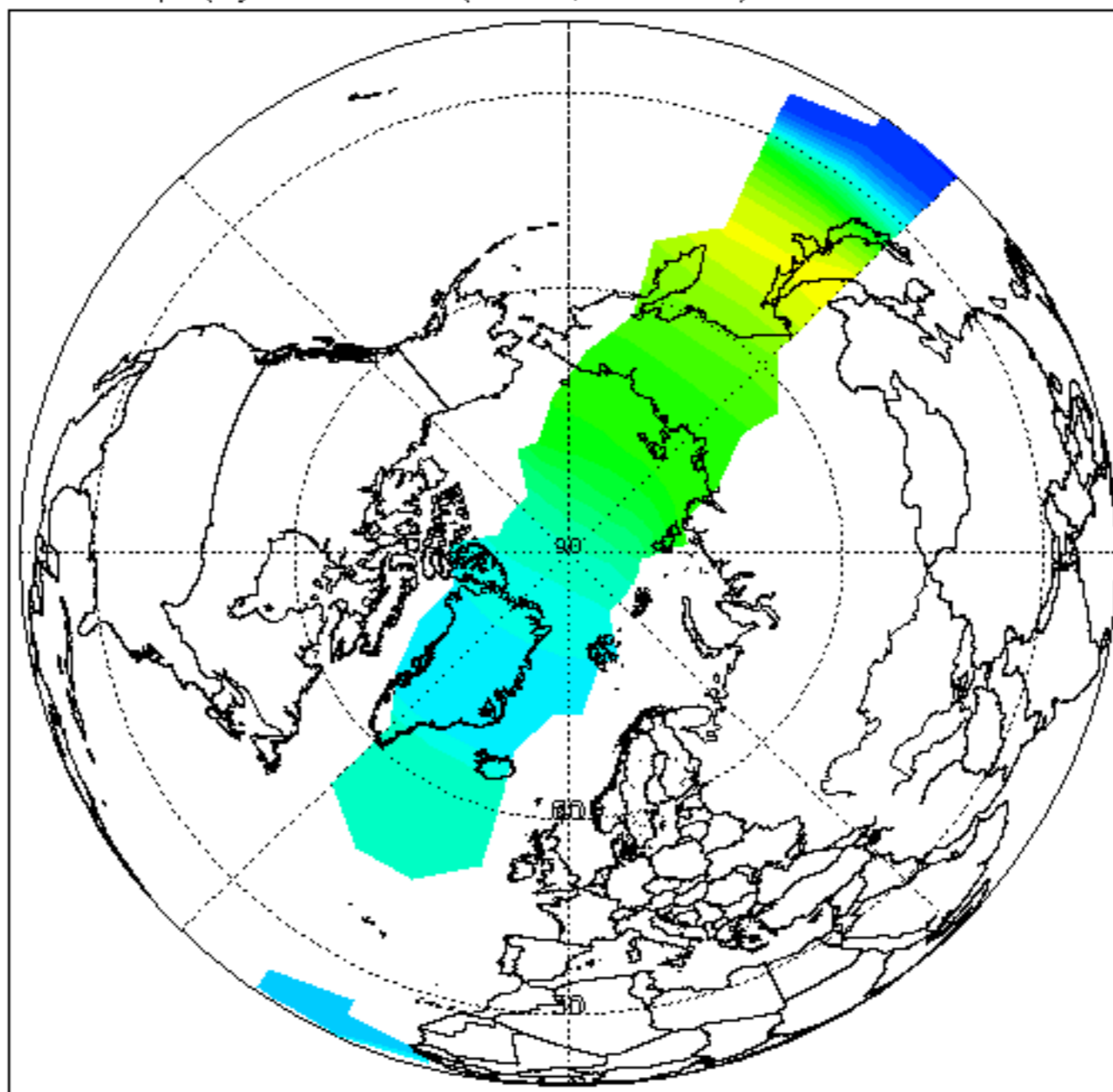
CH₄ (ppm) at 490 K (19km, 55hPa). 30-DEC-2011



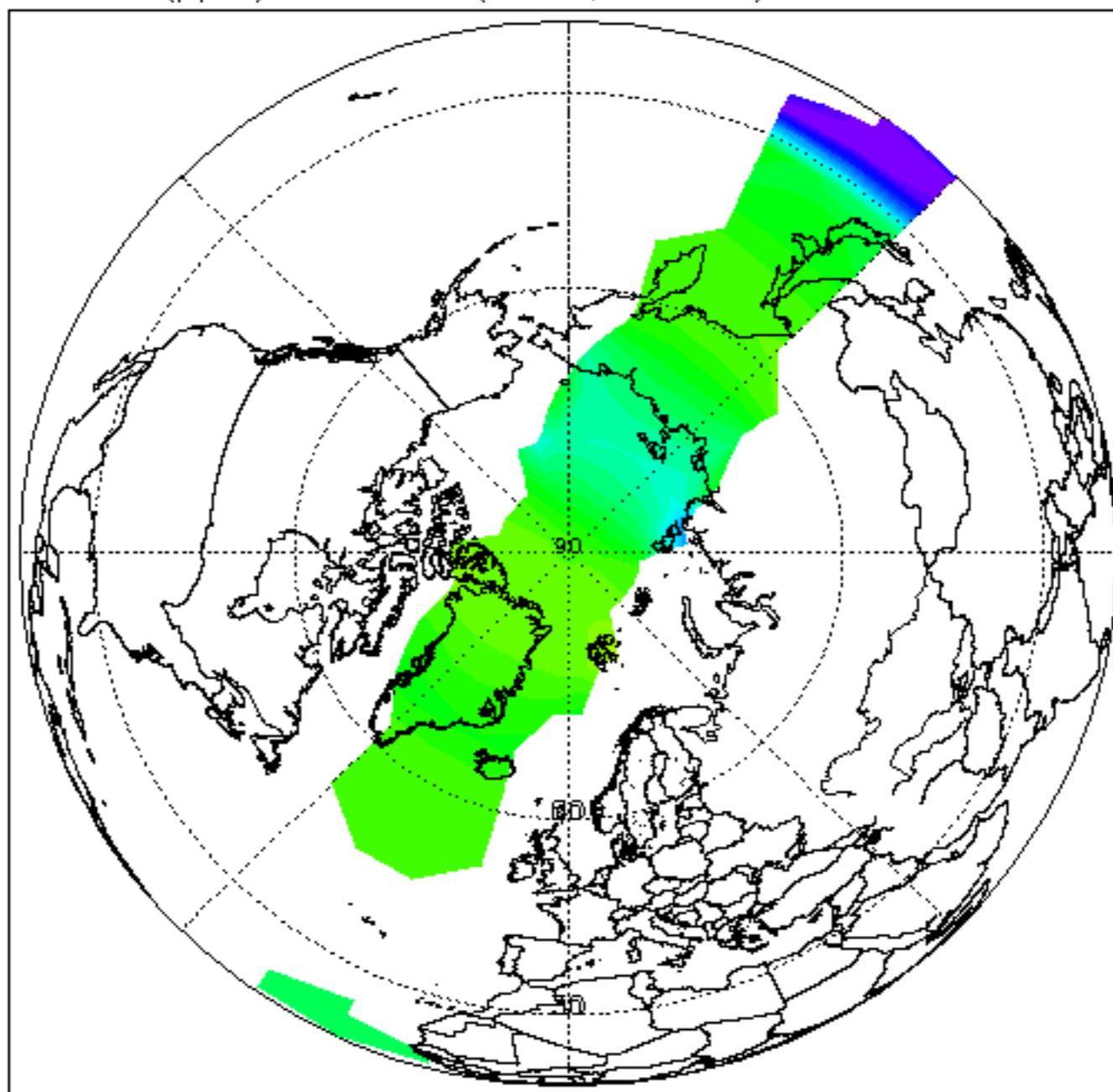
N₂O (ppb) at 490 K (19km, 55hPa). 30-DEC-2011



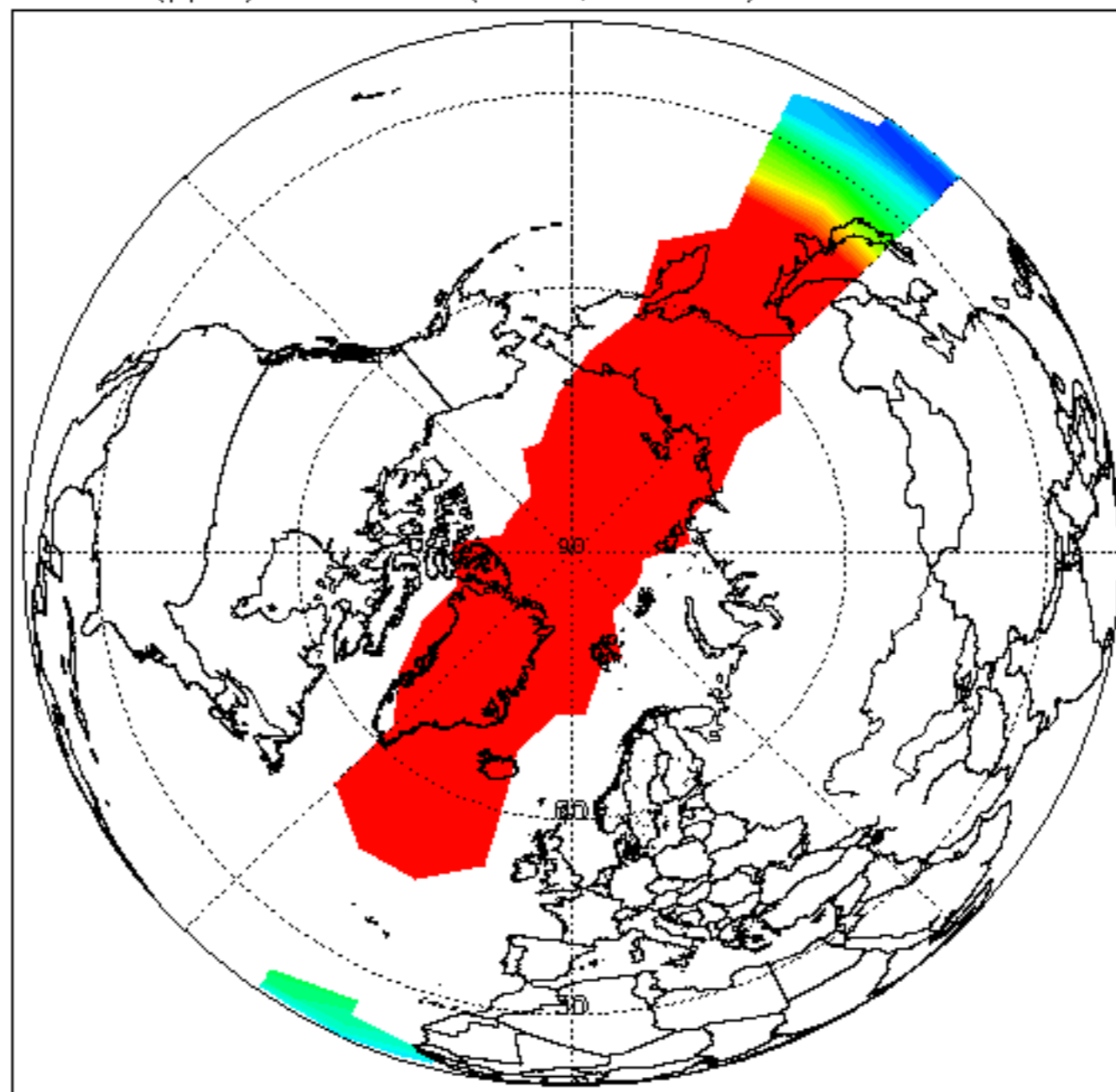
Temp (K) at 410 K (16km, 100hPa). 30-DEC-2011



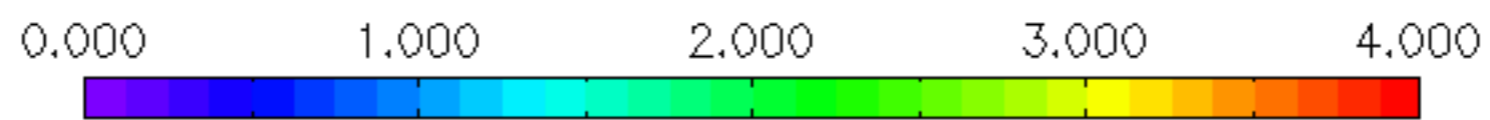
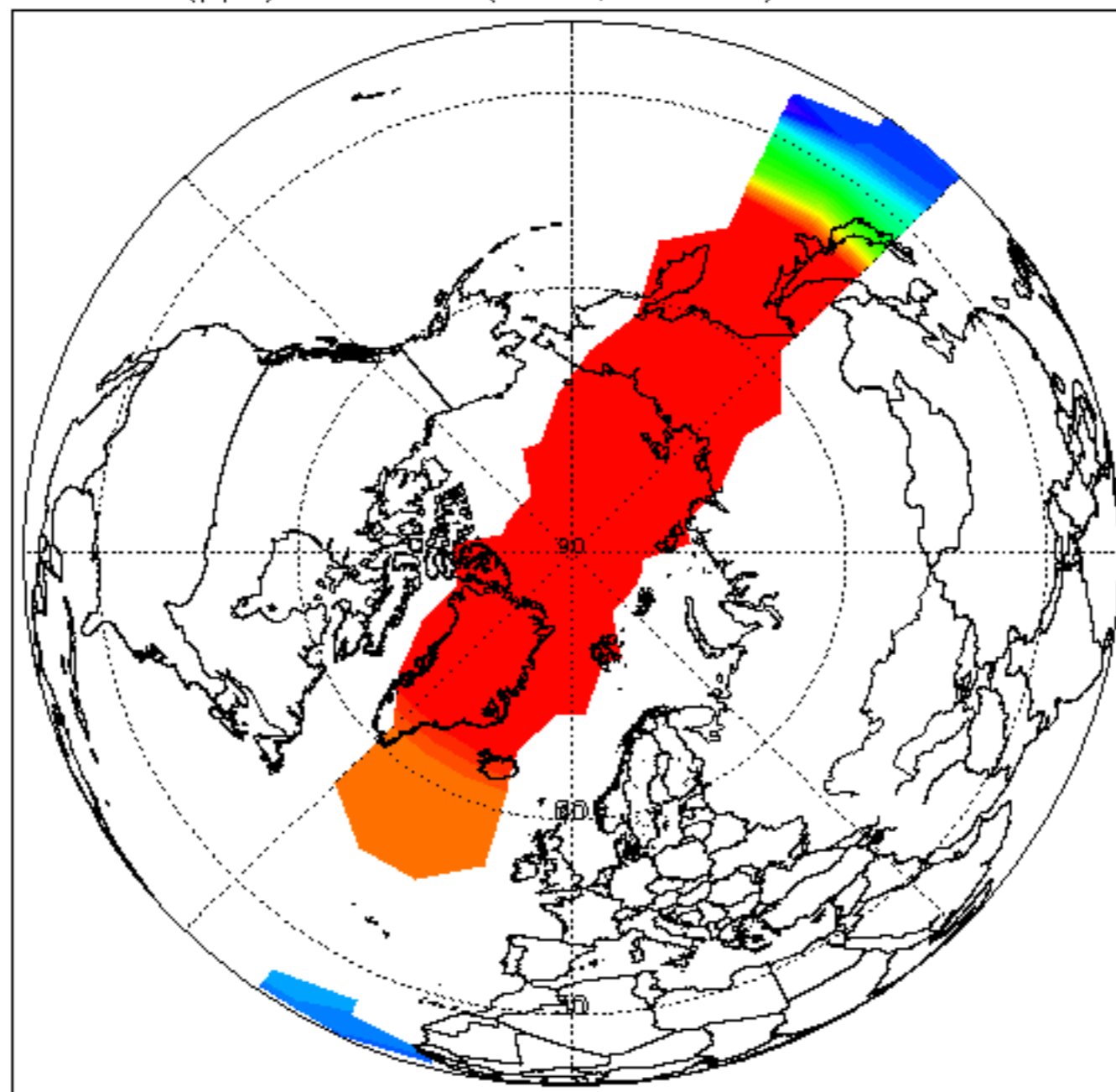
H₂O (ppm) at 410 K (16km, 100hPa). 30-DEC-2011



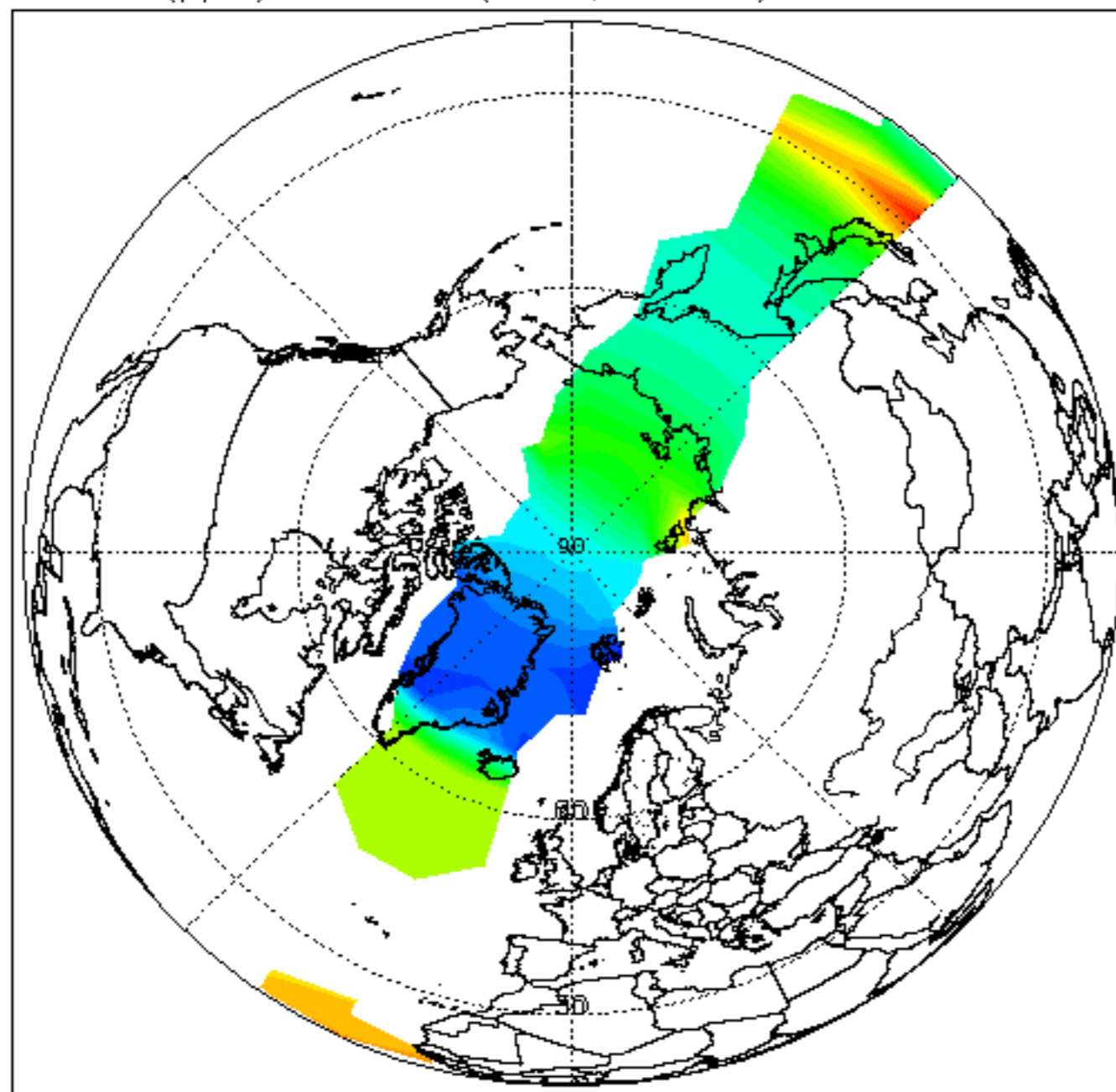
O₃ (ppm) at 410 K (16km, 100hPa). 30-DEC-2011



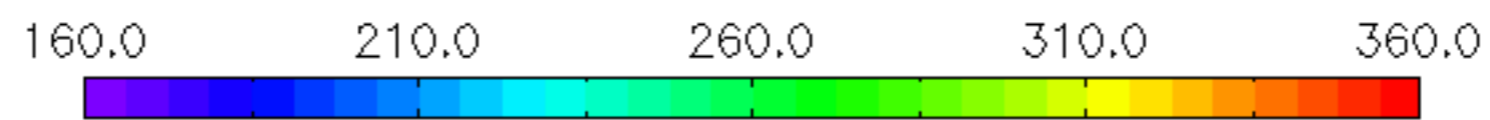
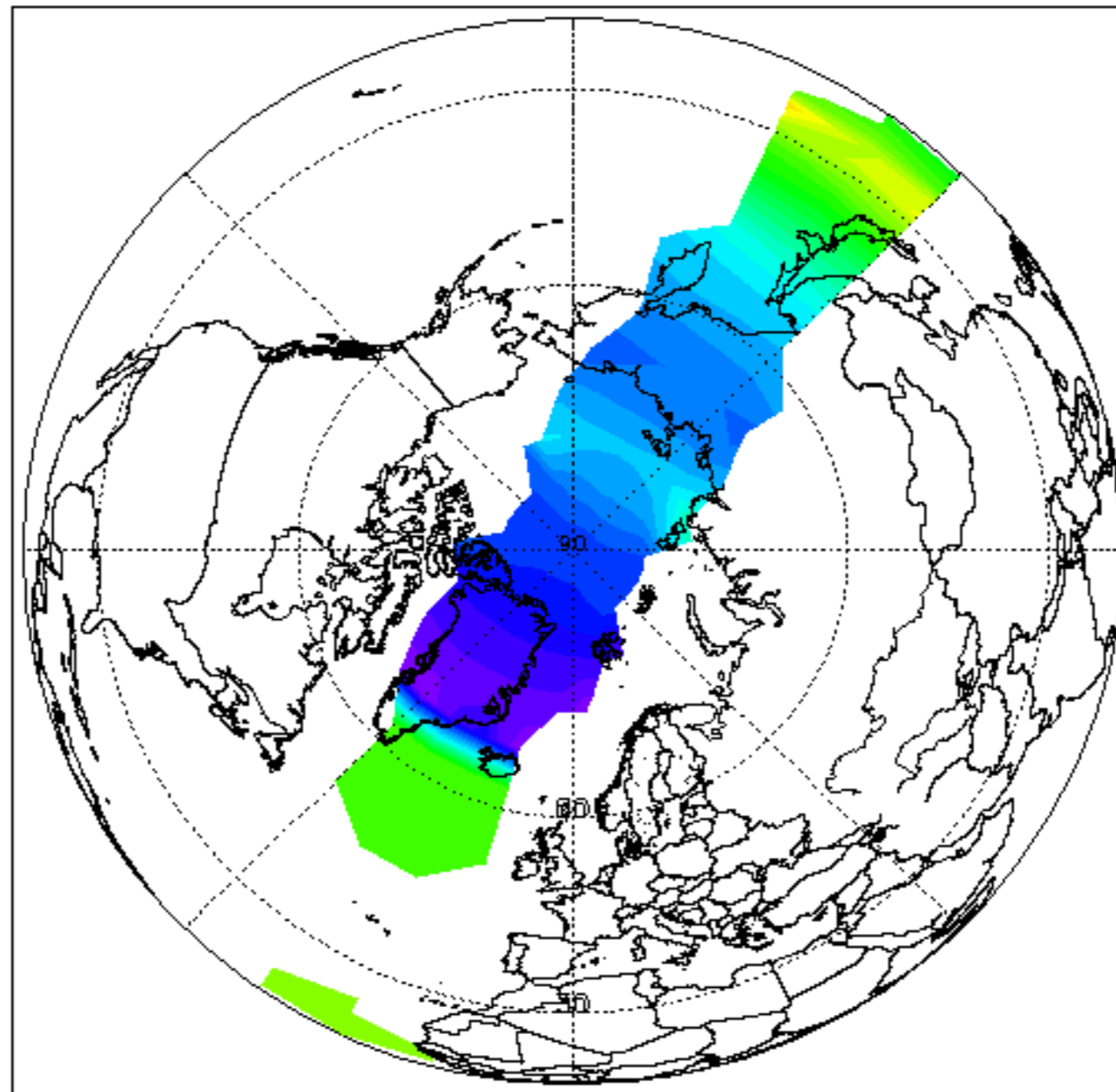
HNO₃ (ppb) at 410 K (16km, 100hPa). 30-DEC-2011



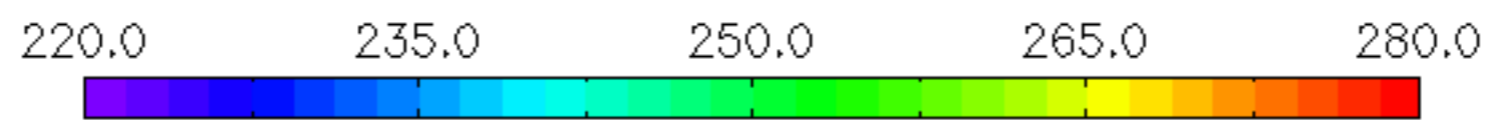
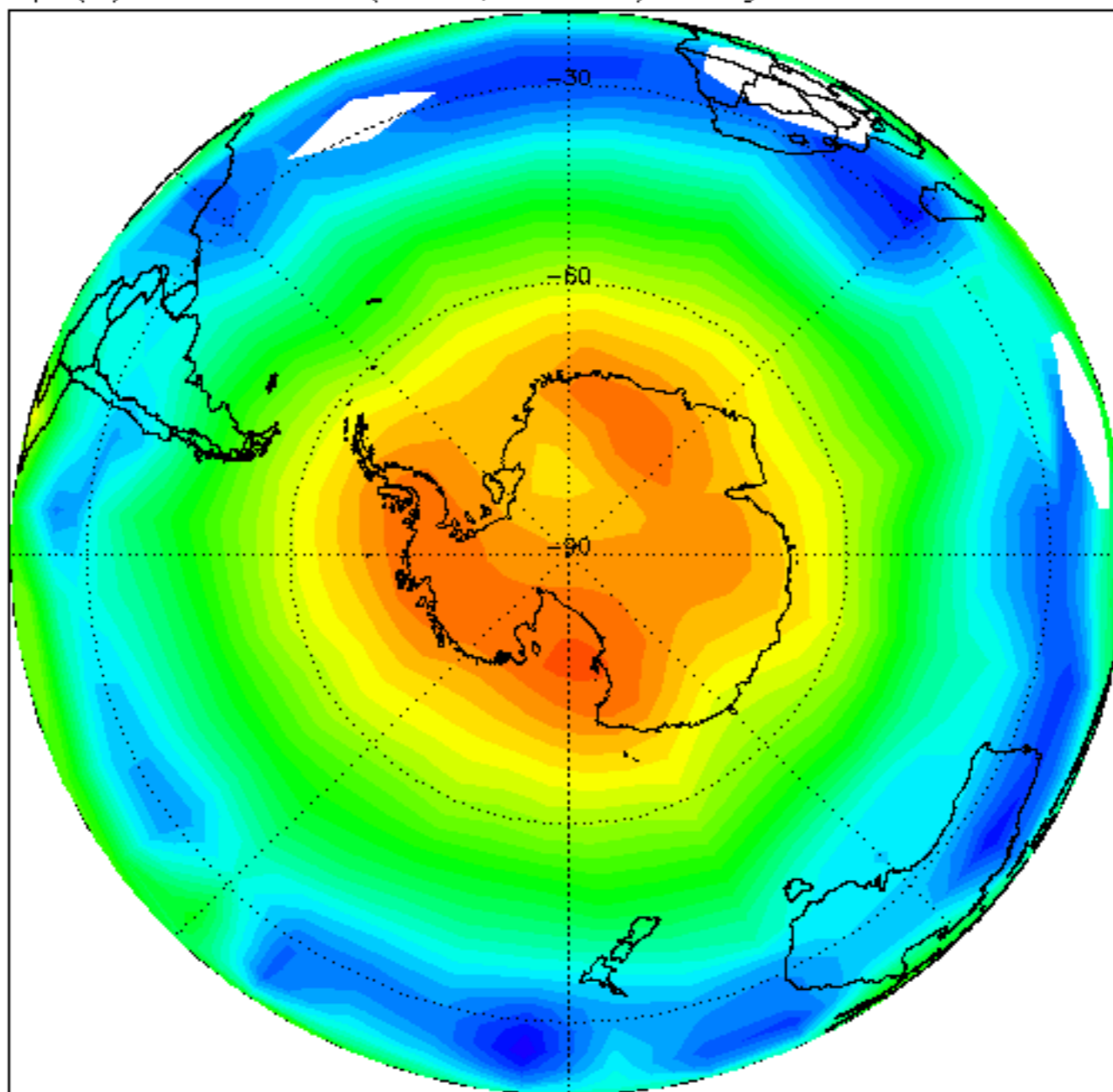
CH₄ (ppm) at 410 K (16km, 100hPa). 30-DEC-2011



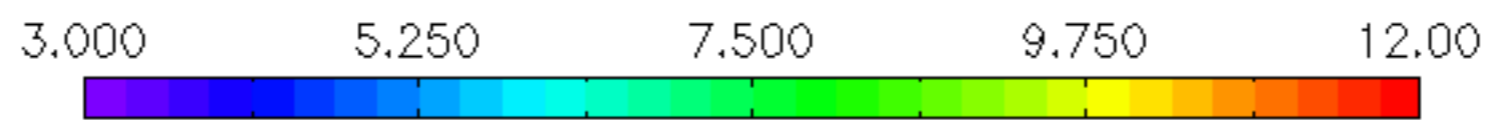
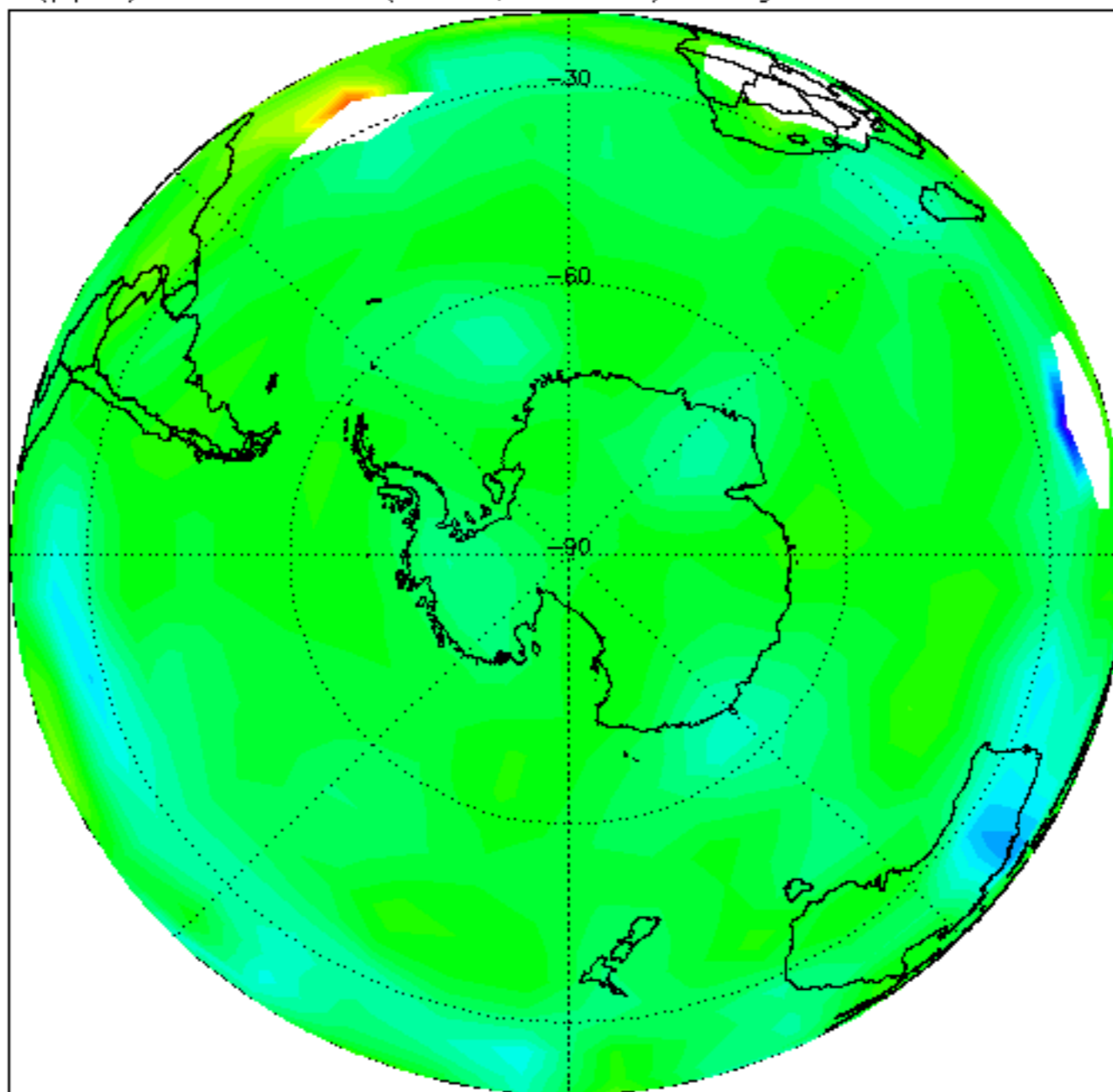
N2O (ppb) at 410 K (16km, 100hPa). 30-DEC-2011



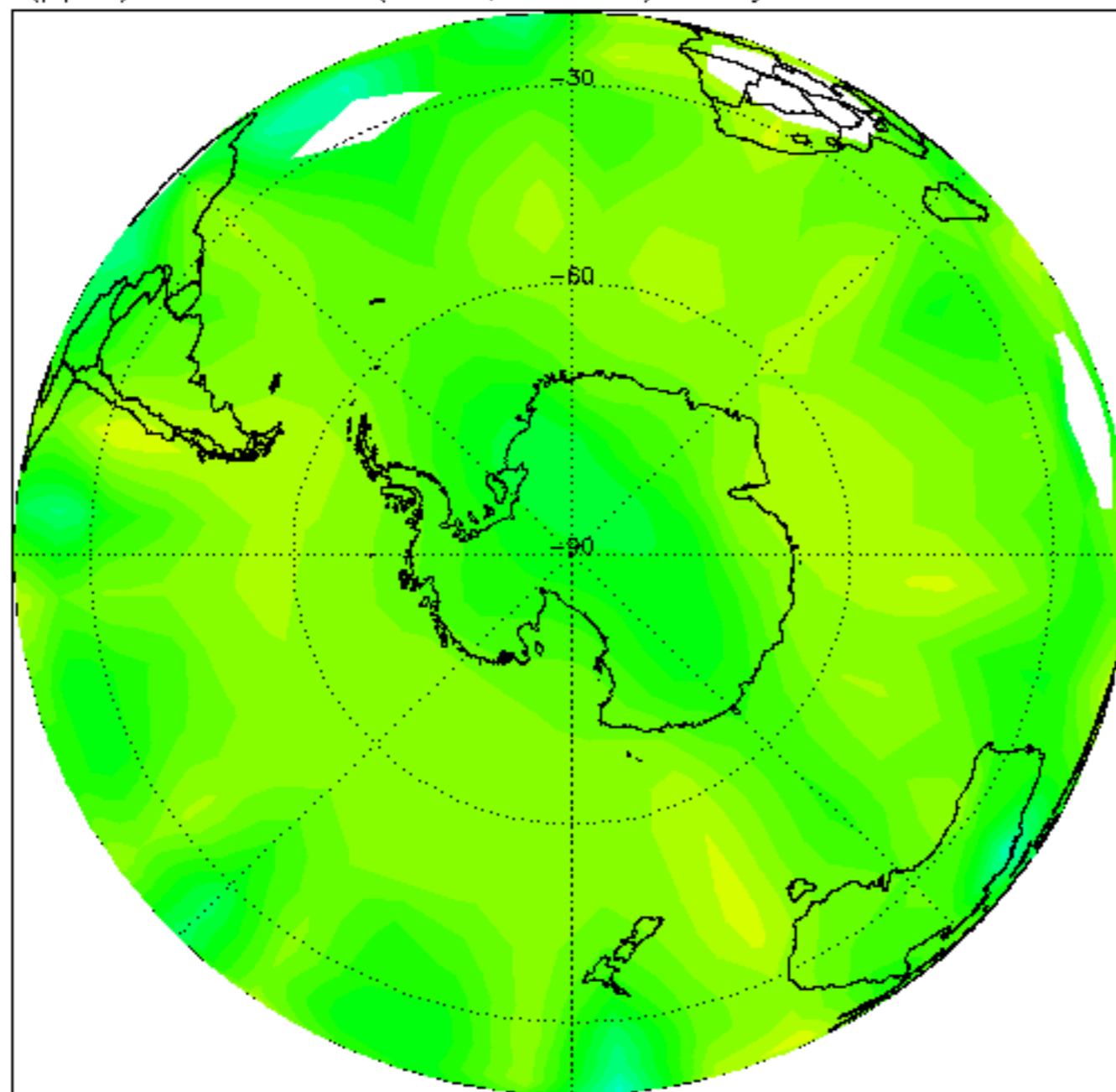
Temp (K) at: 2700 K (60km, 0.2hPa). Daily mean: 30-DEC-2011



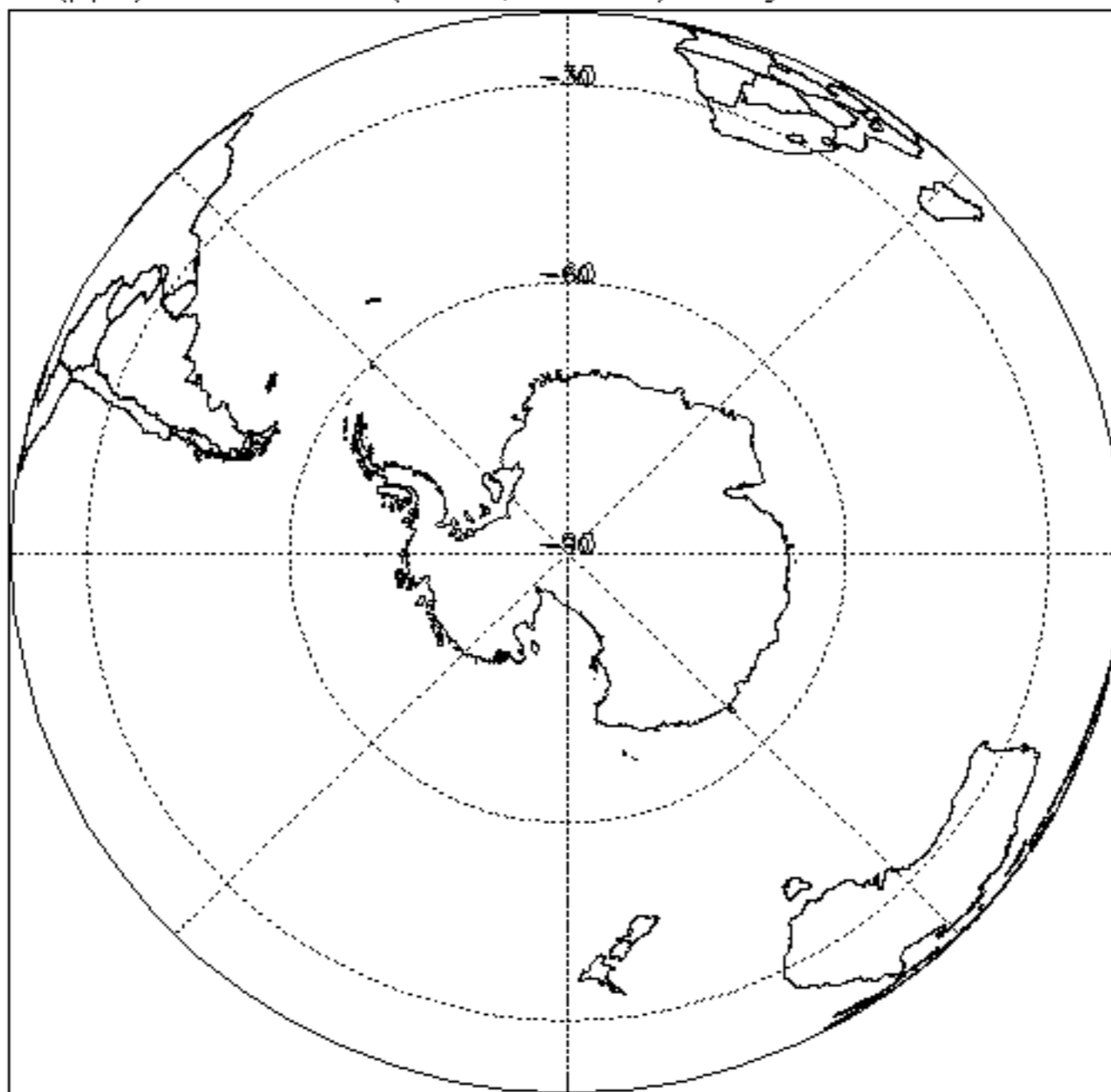
H₂O (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 30-DEC-2011



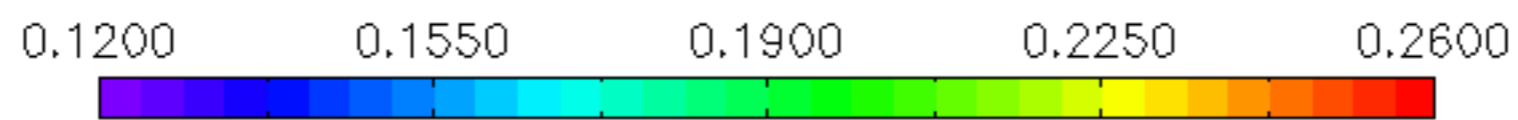
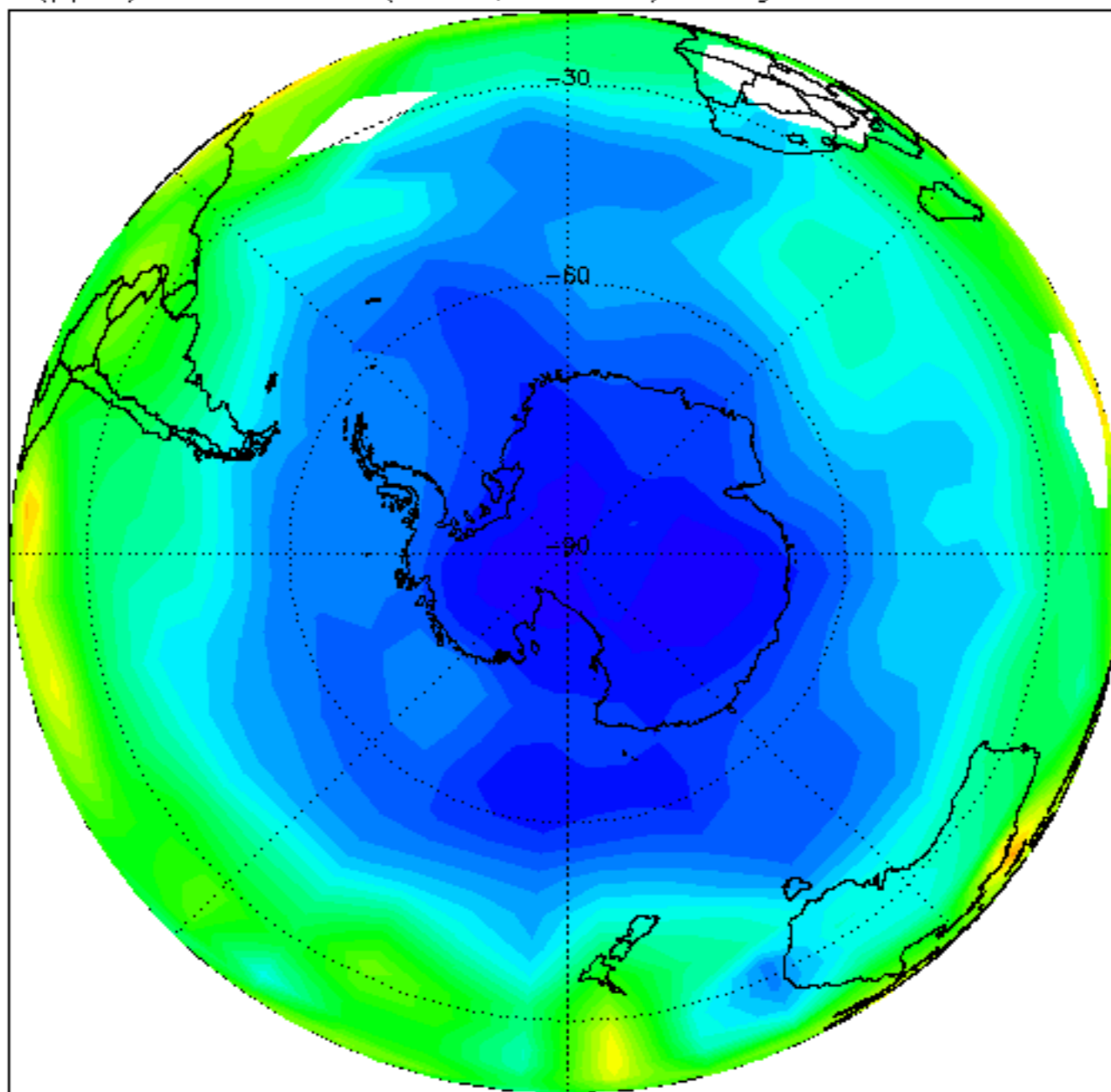
O₃ (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 30-DEC-2011



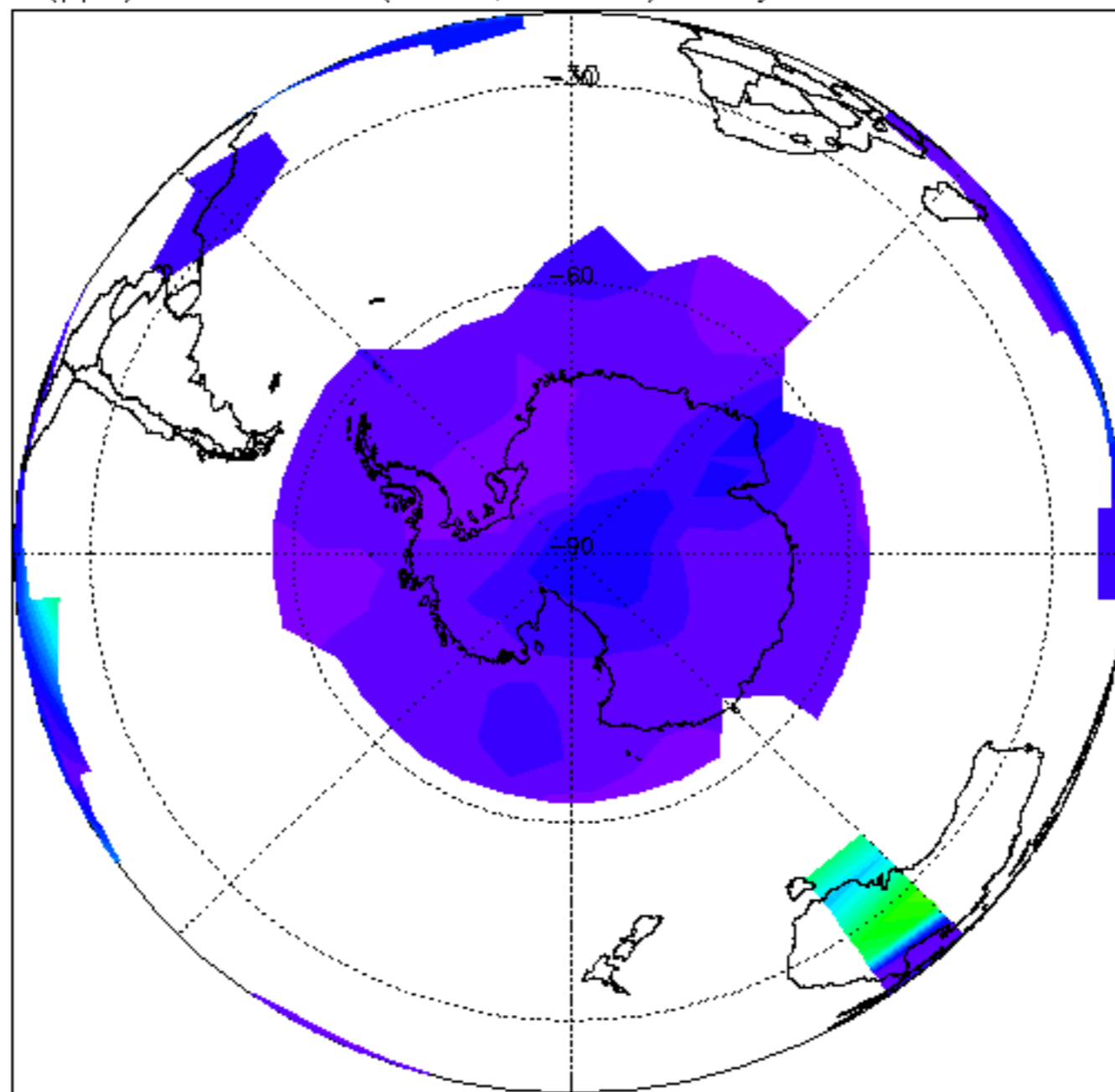
HNO₃ (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 30-DEC-2011



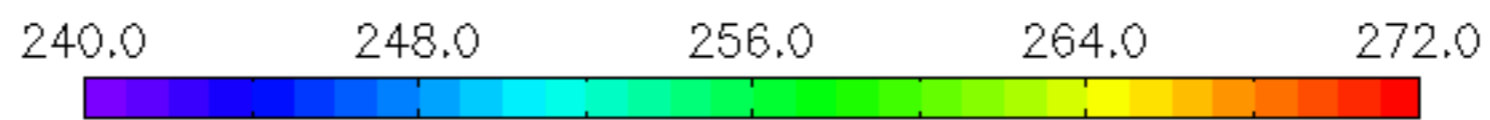
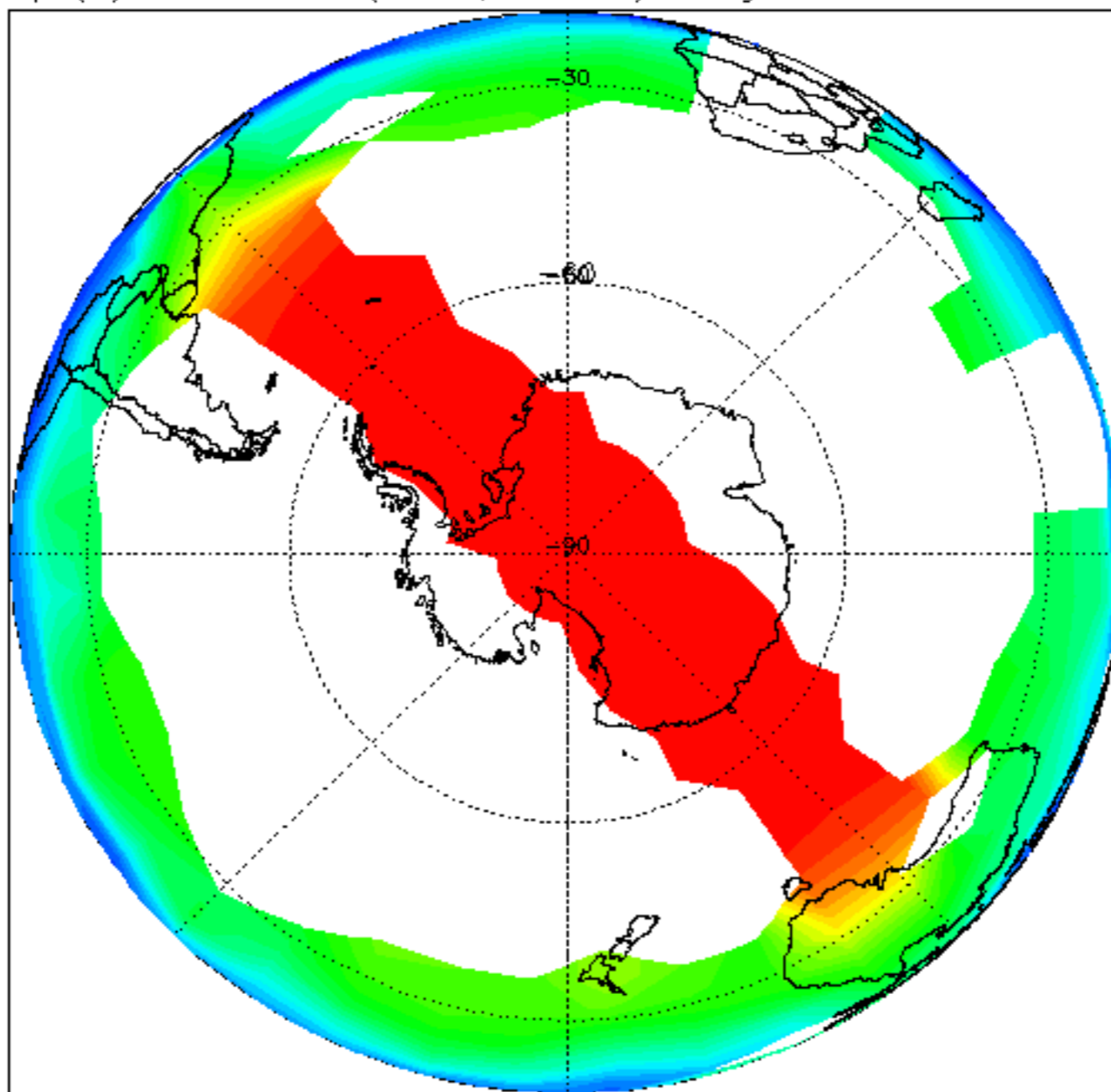
CH₄ (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 30-DEC-2011



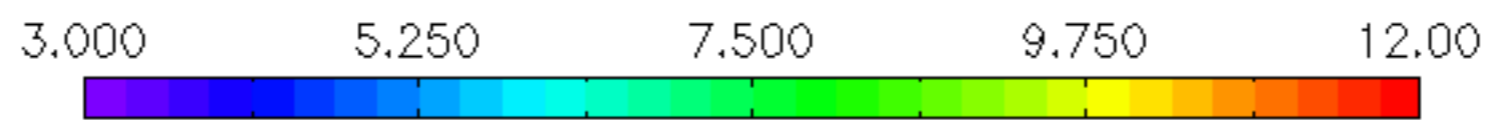
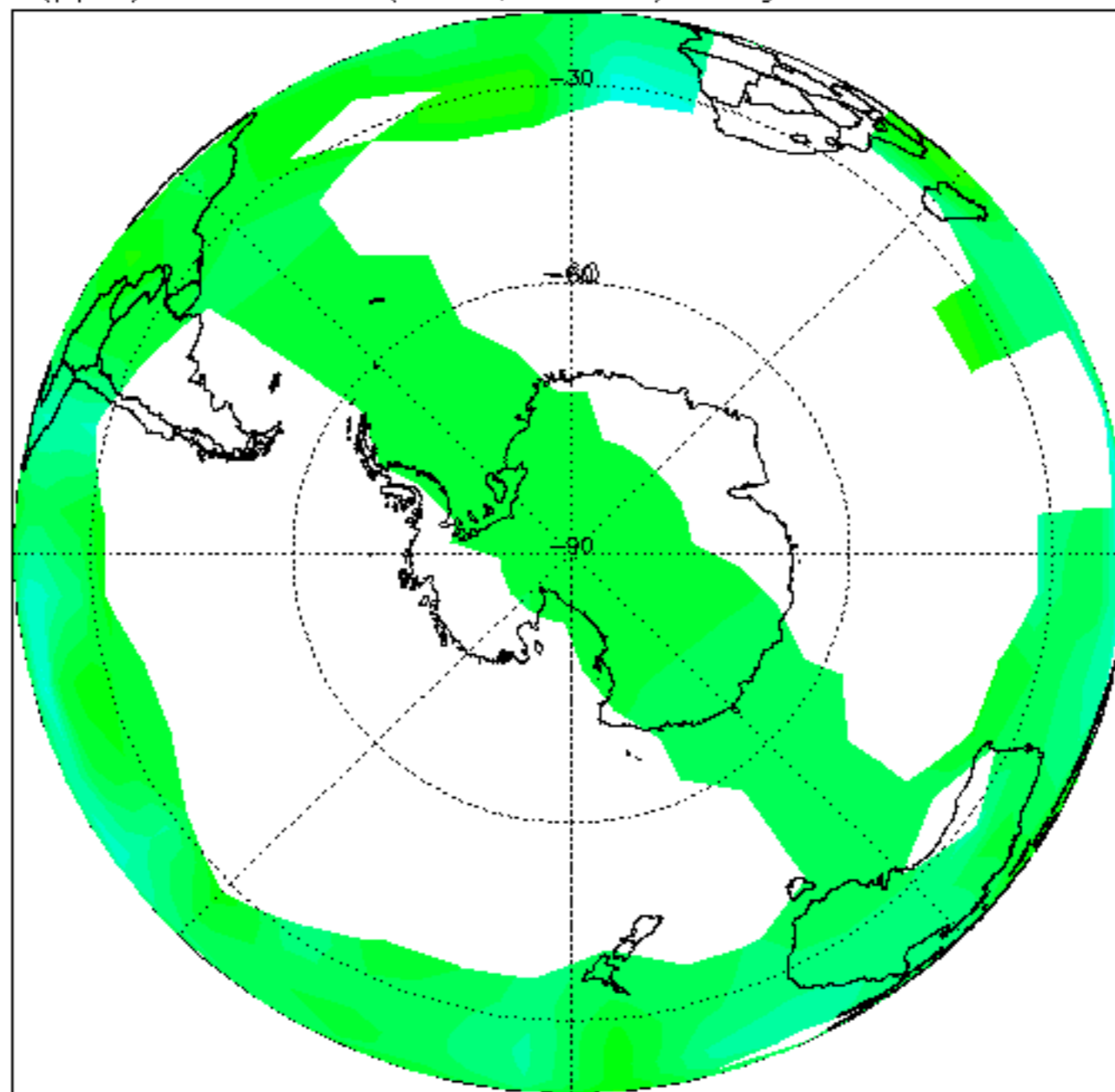
N₂O (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 30-DEC-2011



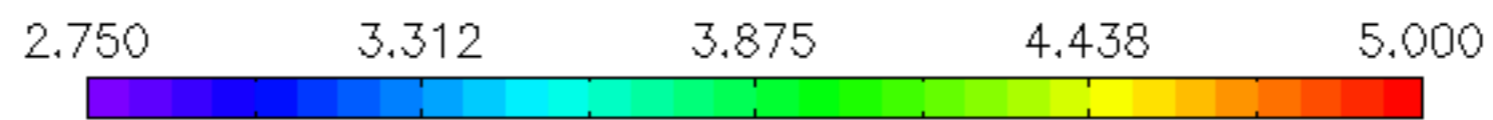
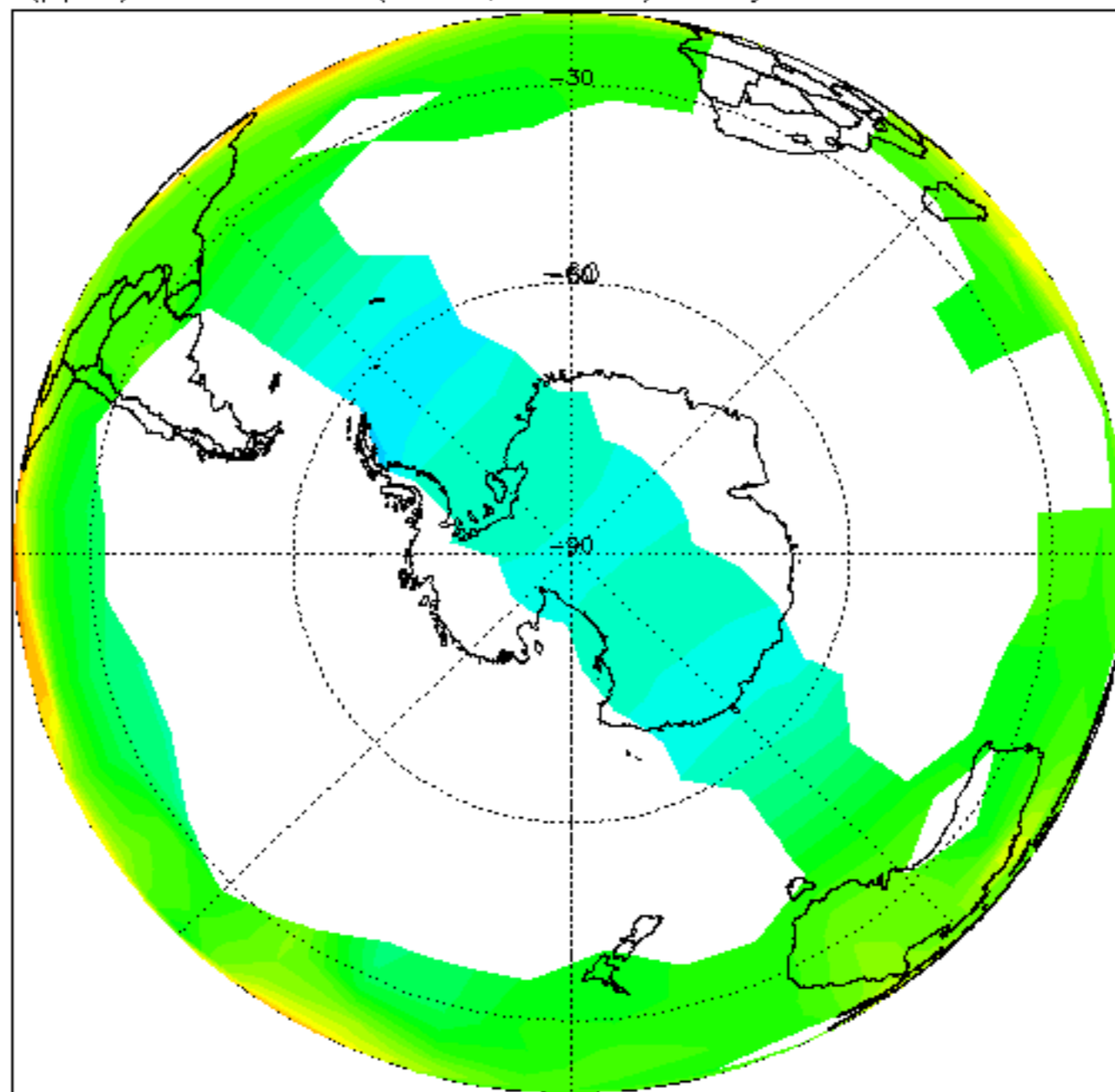
Temp (K) at: 1700 K (45km, 1.5hPa). Daily mean: 30-DEC-2011



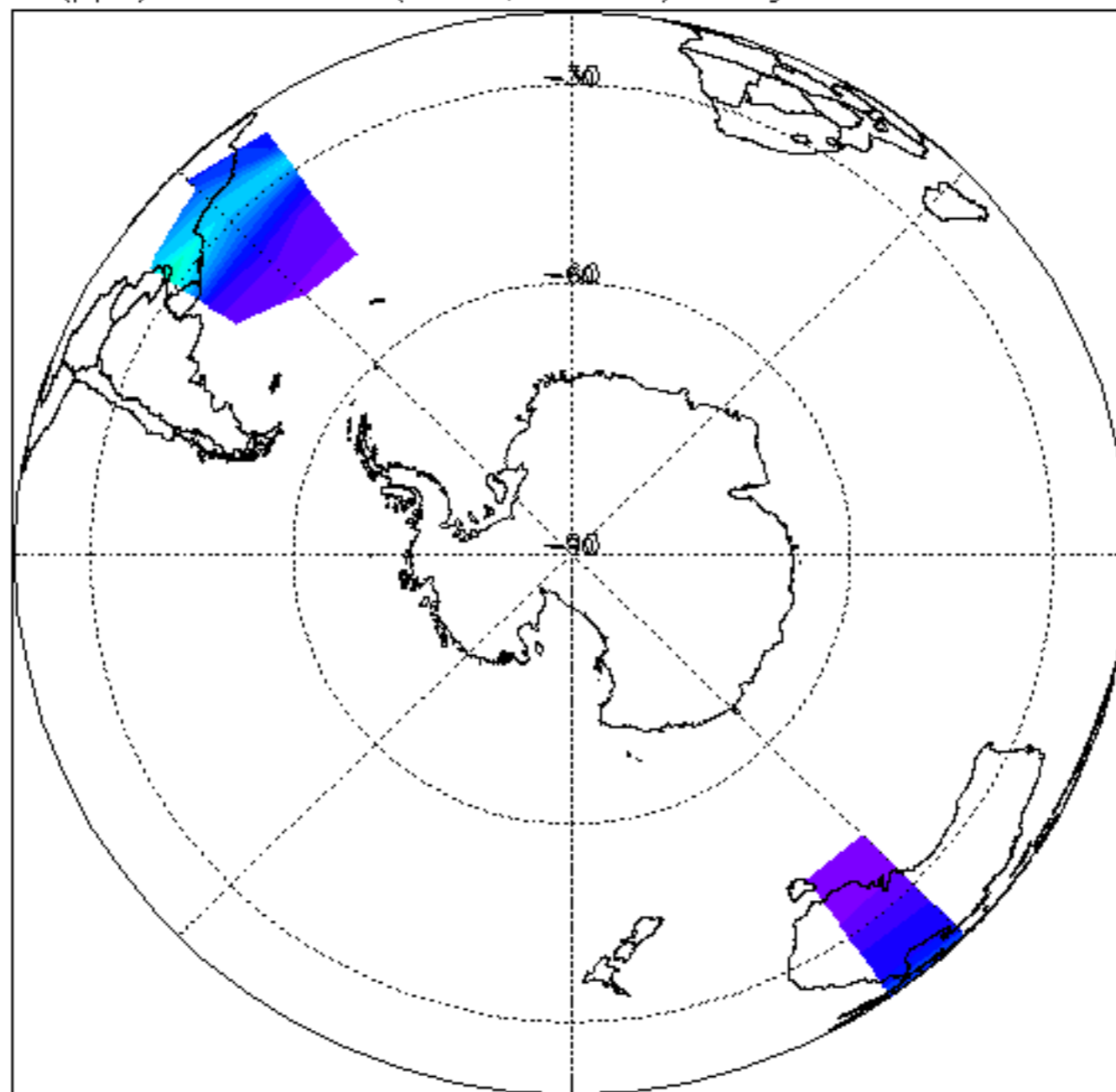
H₂O (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 30-DEC-2011



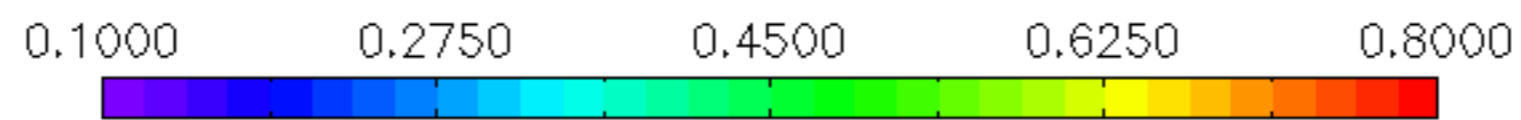
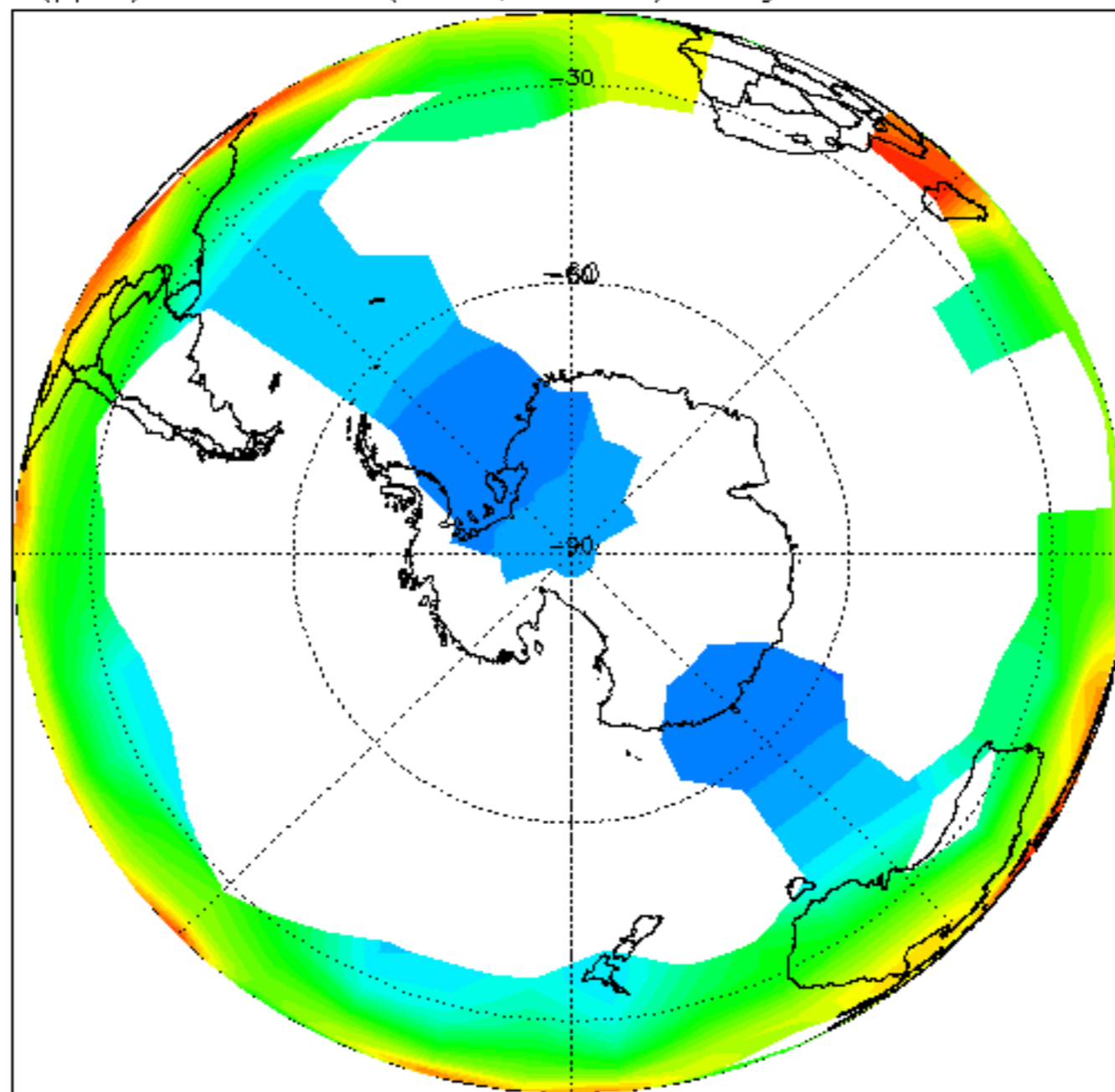
O₃ (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 30-DEC-2011



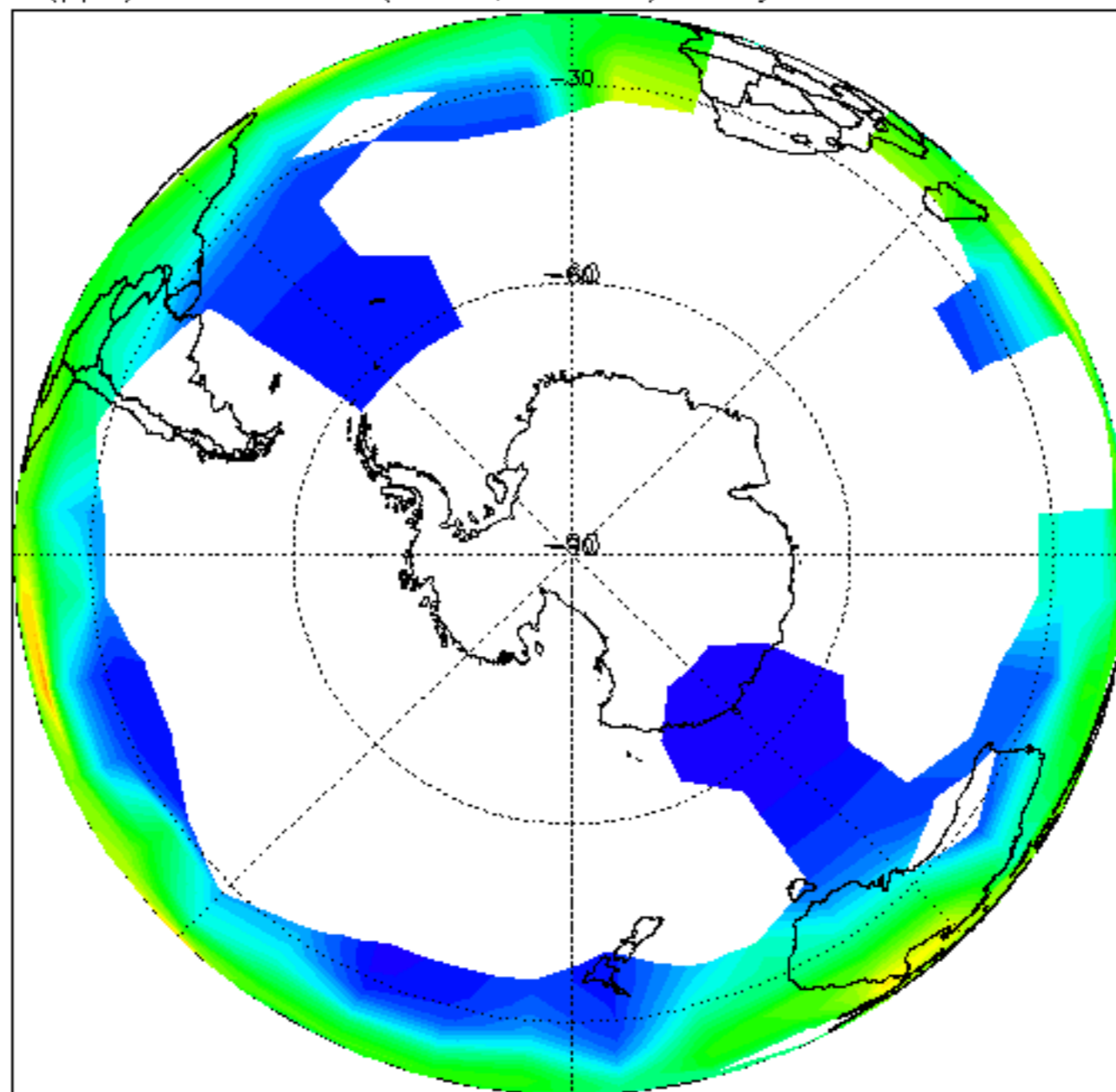
HN03 (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 30-DEC-2011



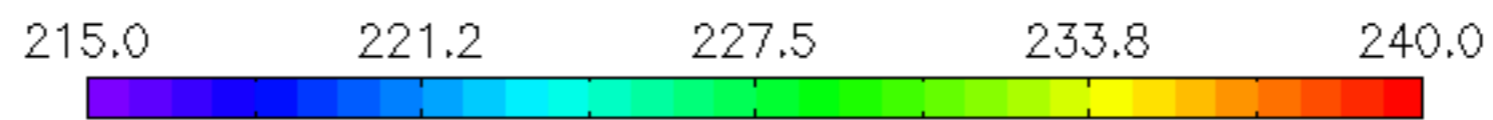
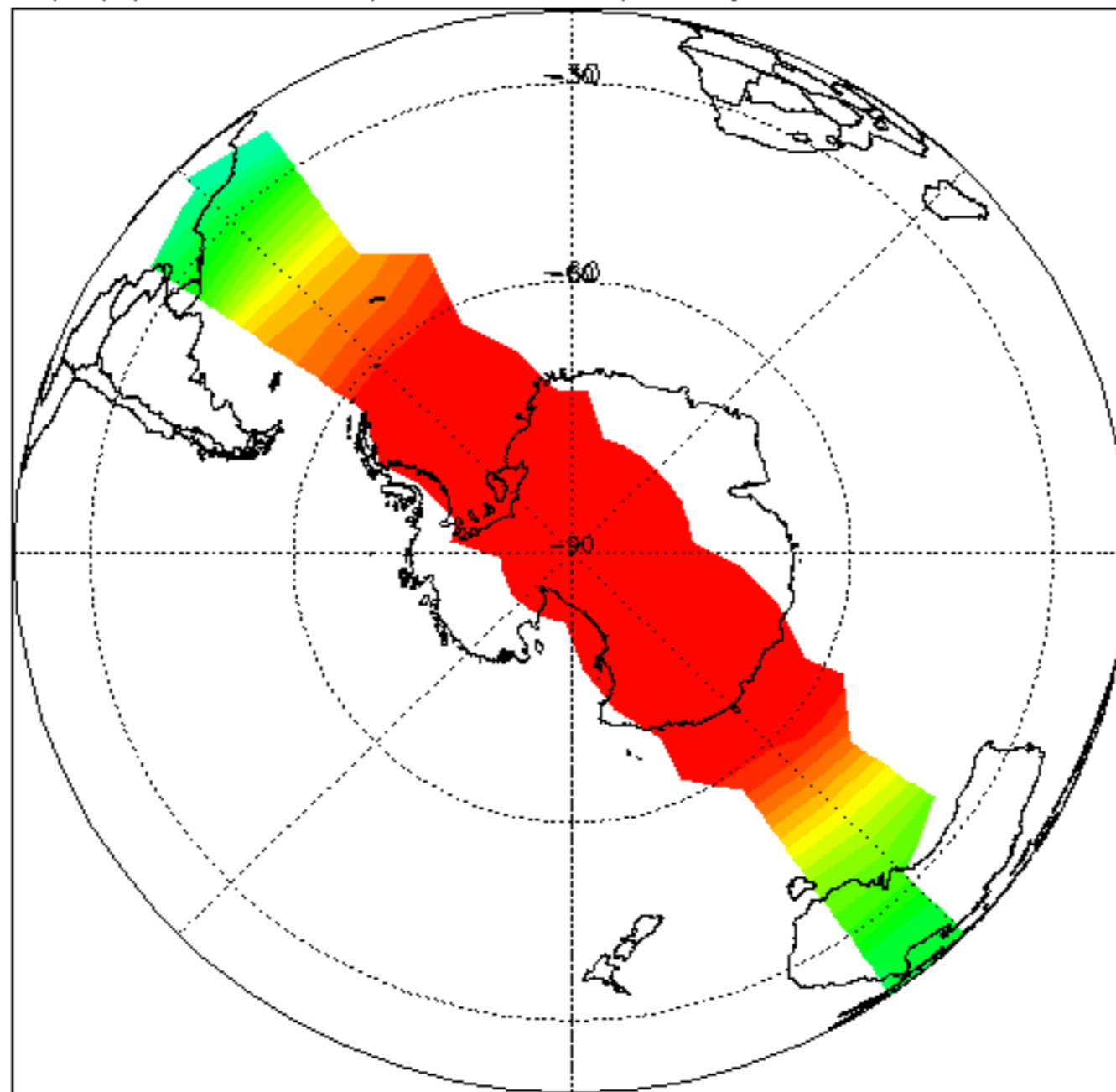
CH₄ (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 30-DEC-2011



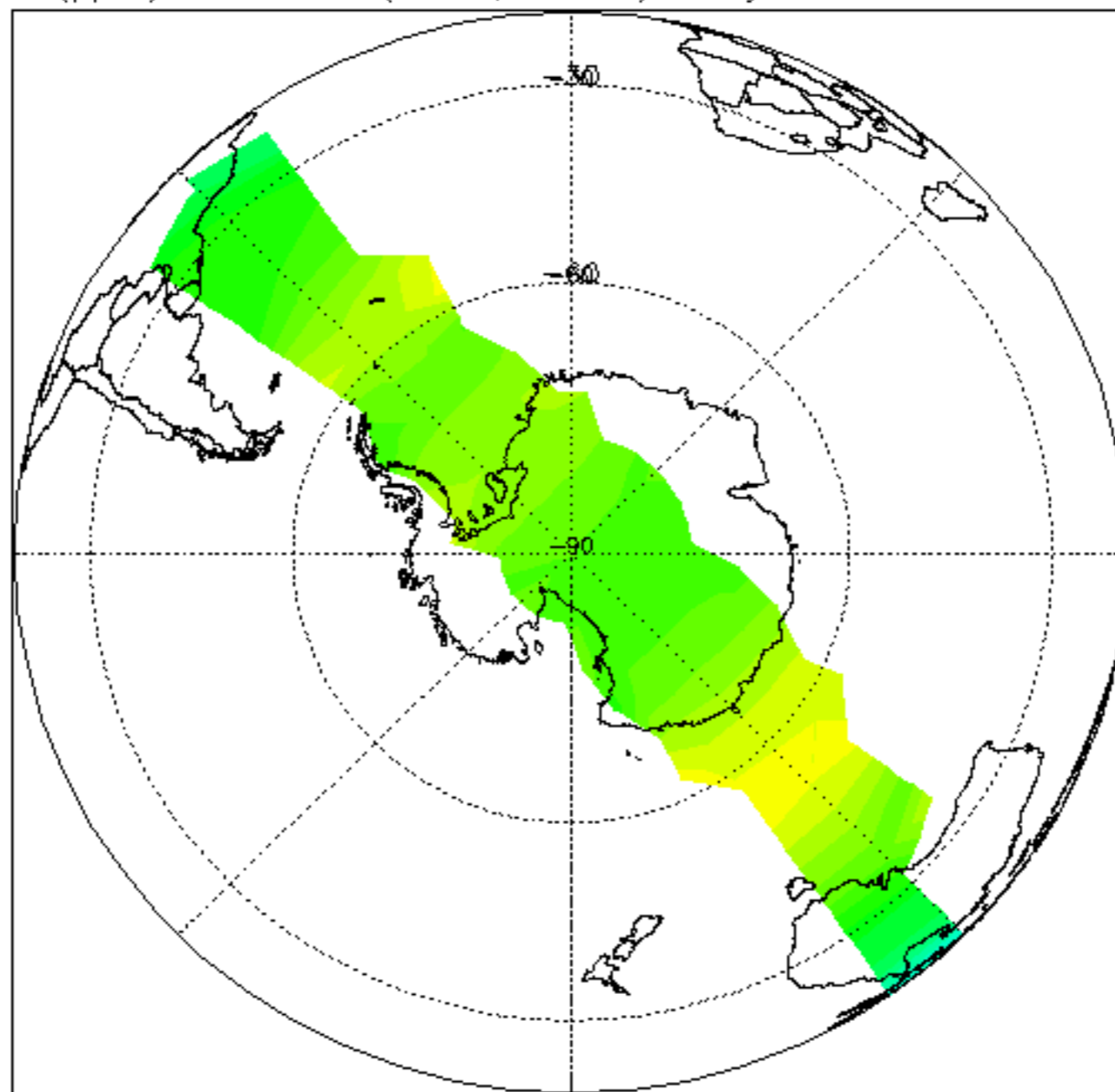
N₂O (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 30-DEC-2011



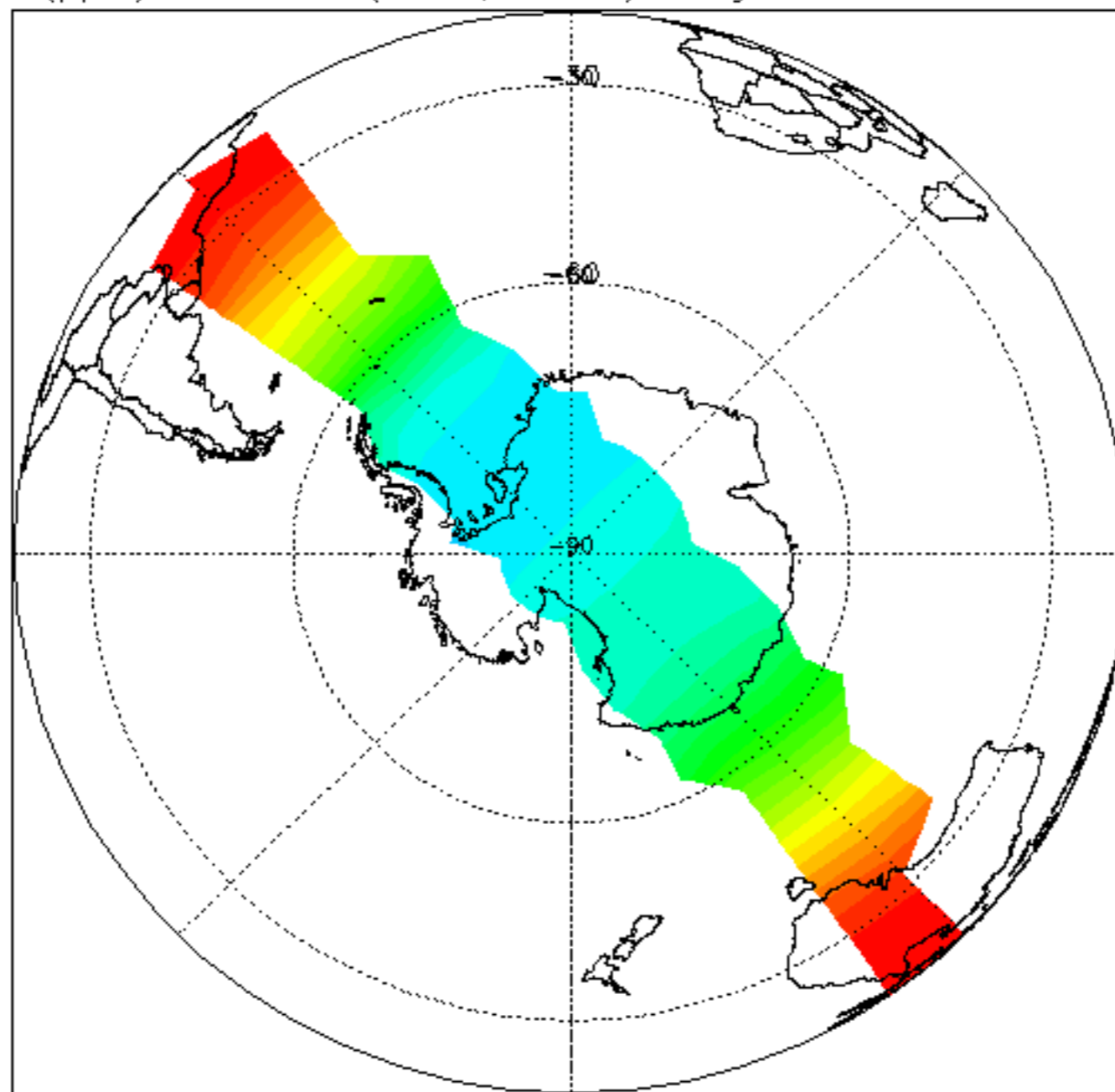
Temp (K) at: 850 K (32km, 10hPa). Daily mean: 30-DEC-2011



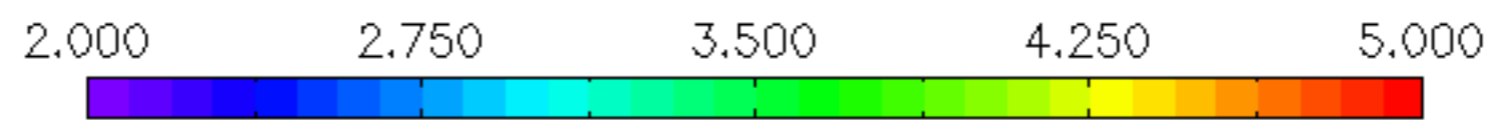
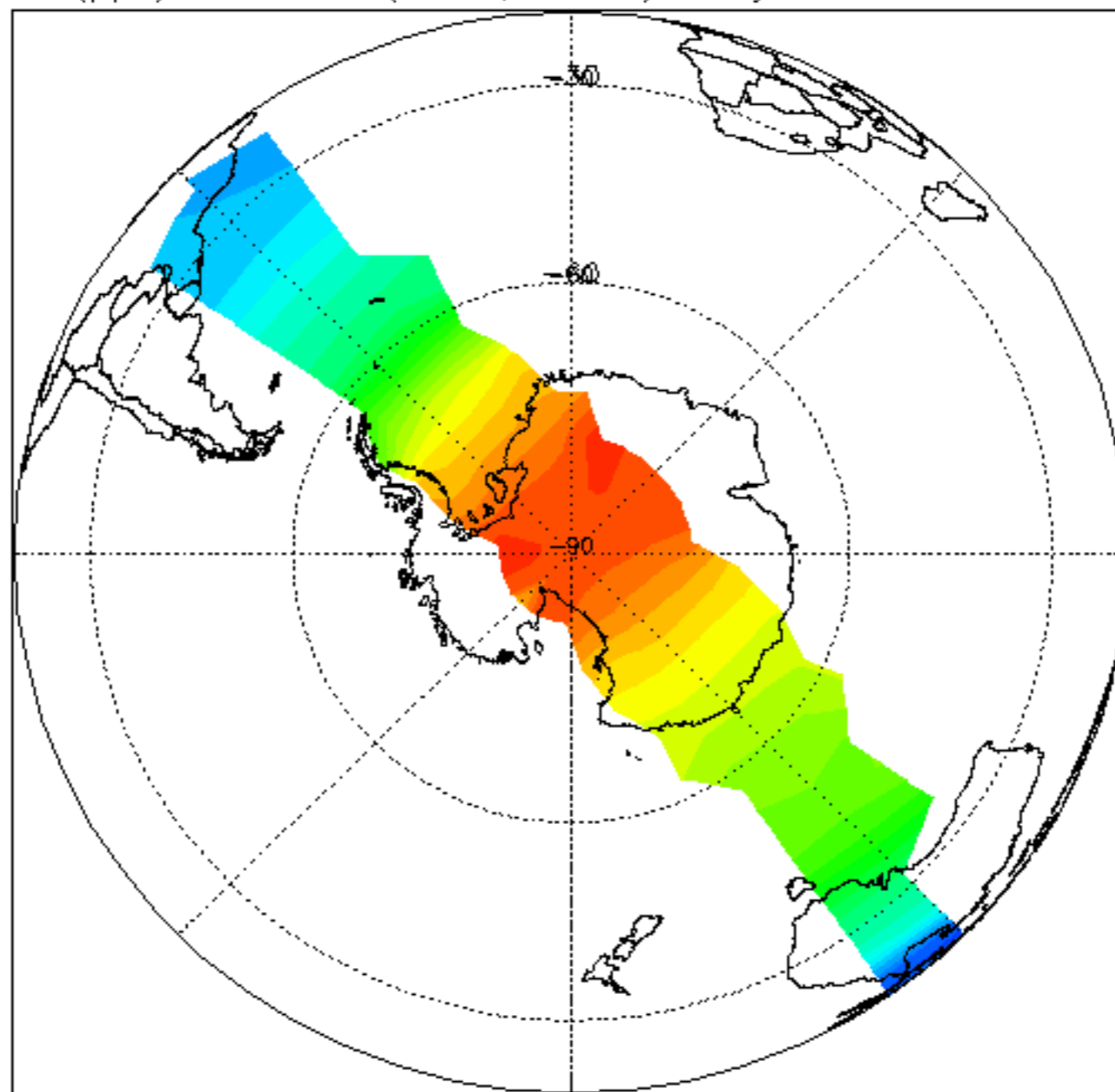
H₂O (ppm) at: 850 K (32km, 10hPa). Daily mean: 30-DEC-2011



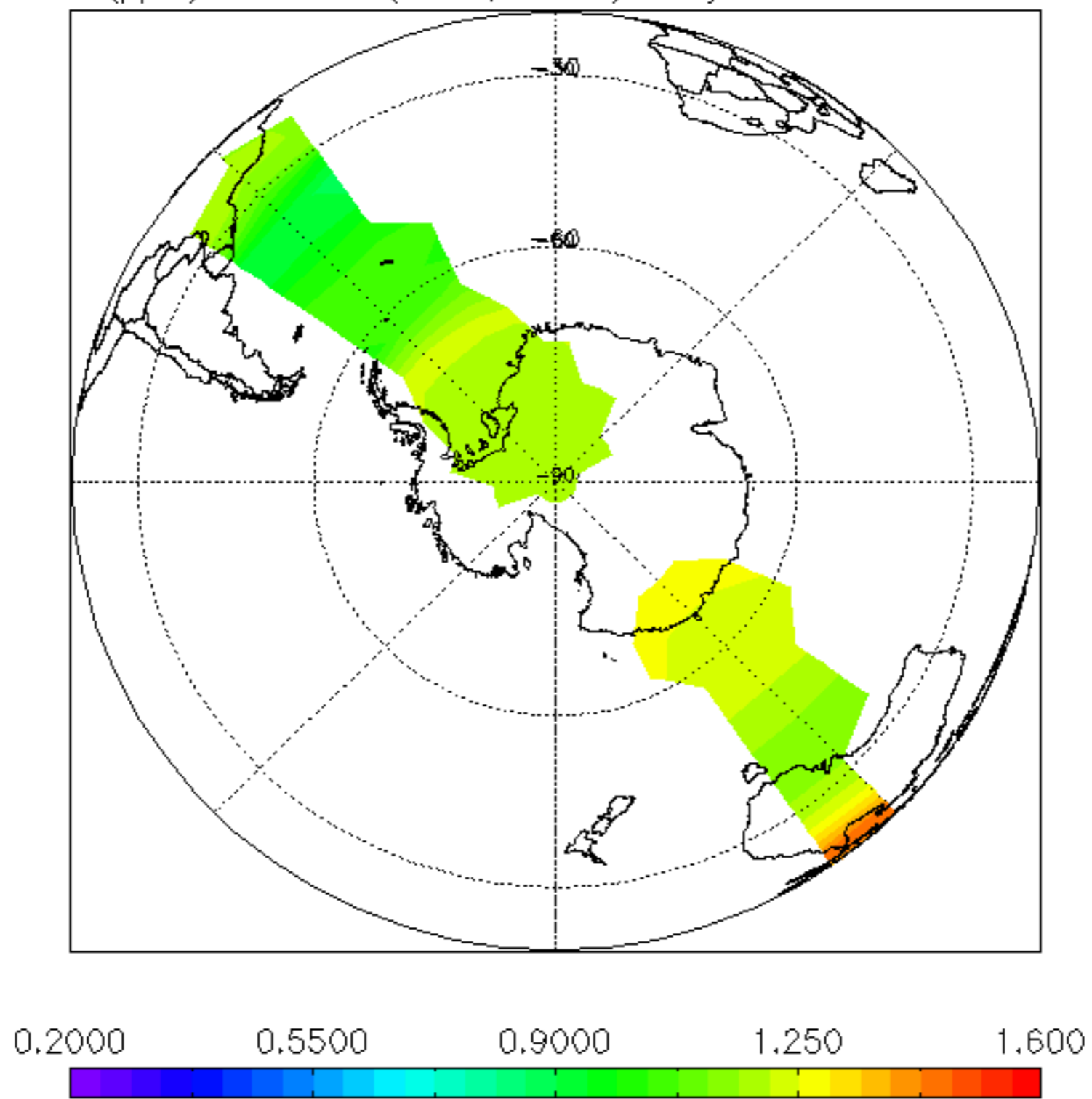
O₃ (ppm) at: 850 K (32km, 10hPa). Daily mean: 30-DEC-2011



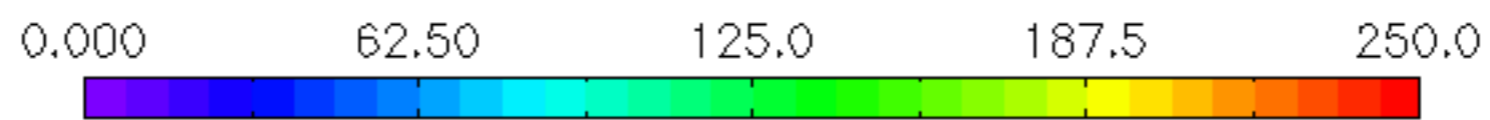
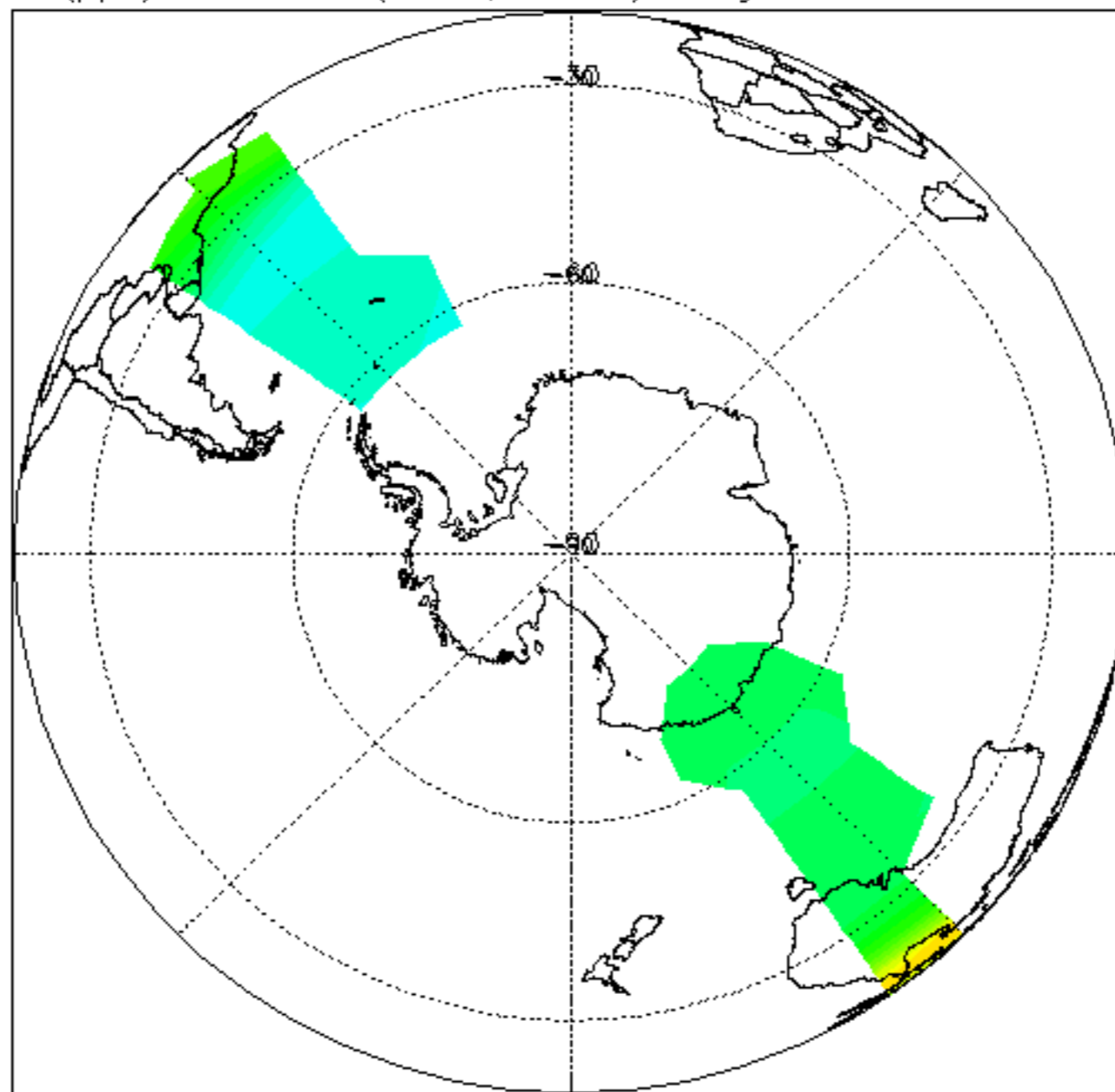
HN03 (ppb) at: 850 K (32km, 10hPa). Daily mean: 30-DEC-2011



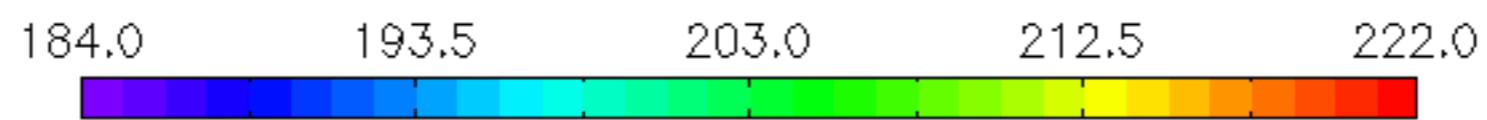
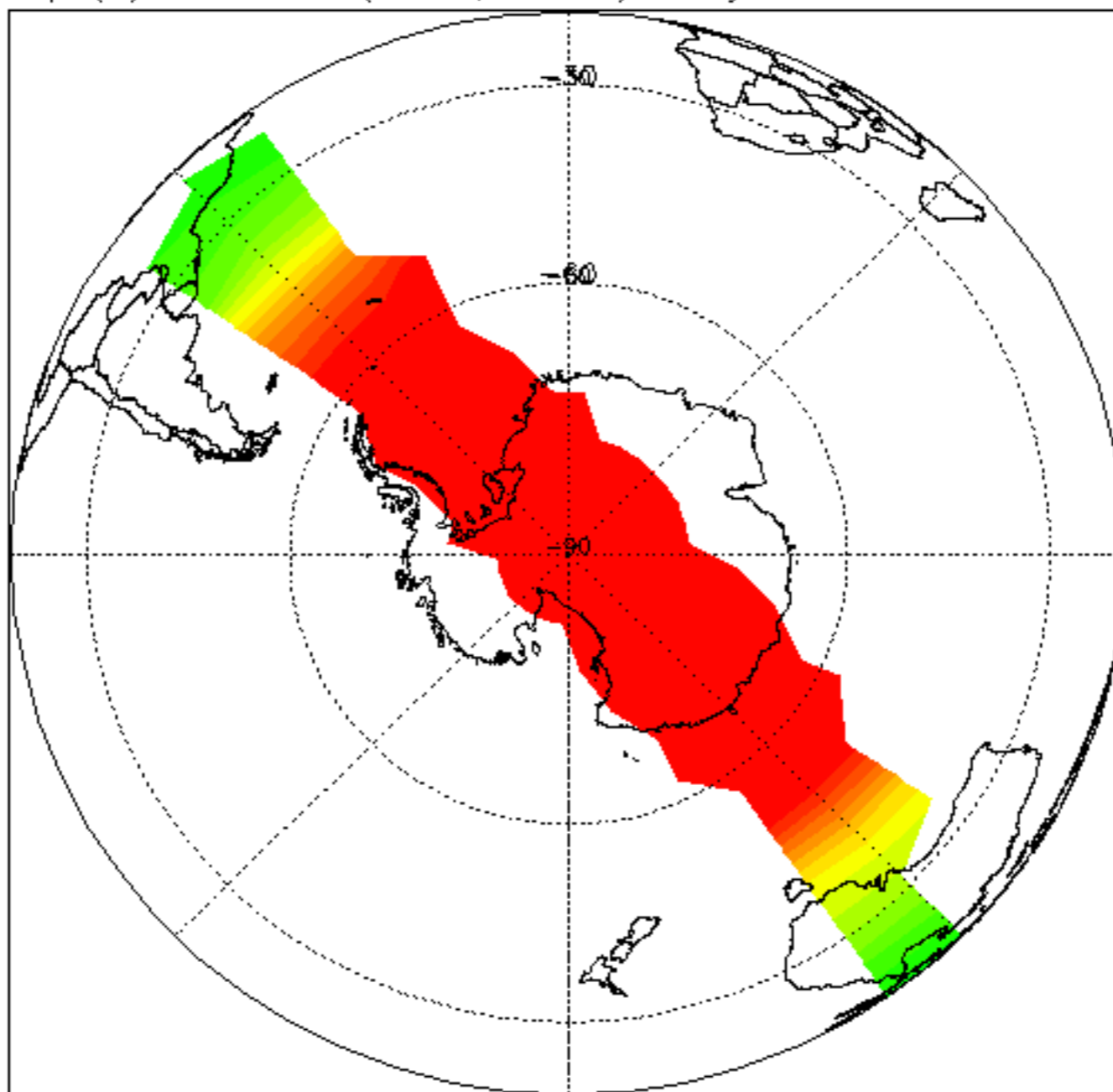
CH₄ (ppm) at: 850 K (32km, 10hPa). Daily mean: 30-DEC-2011



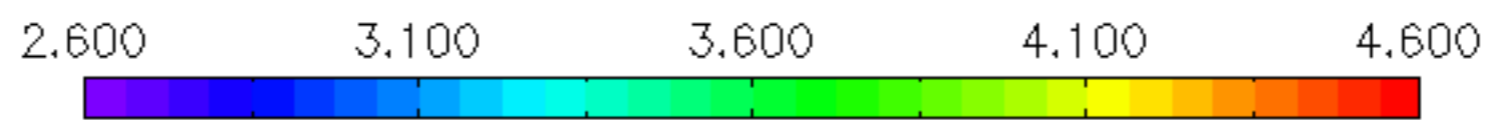
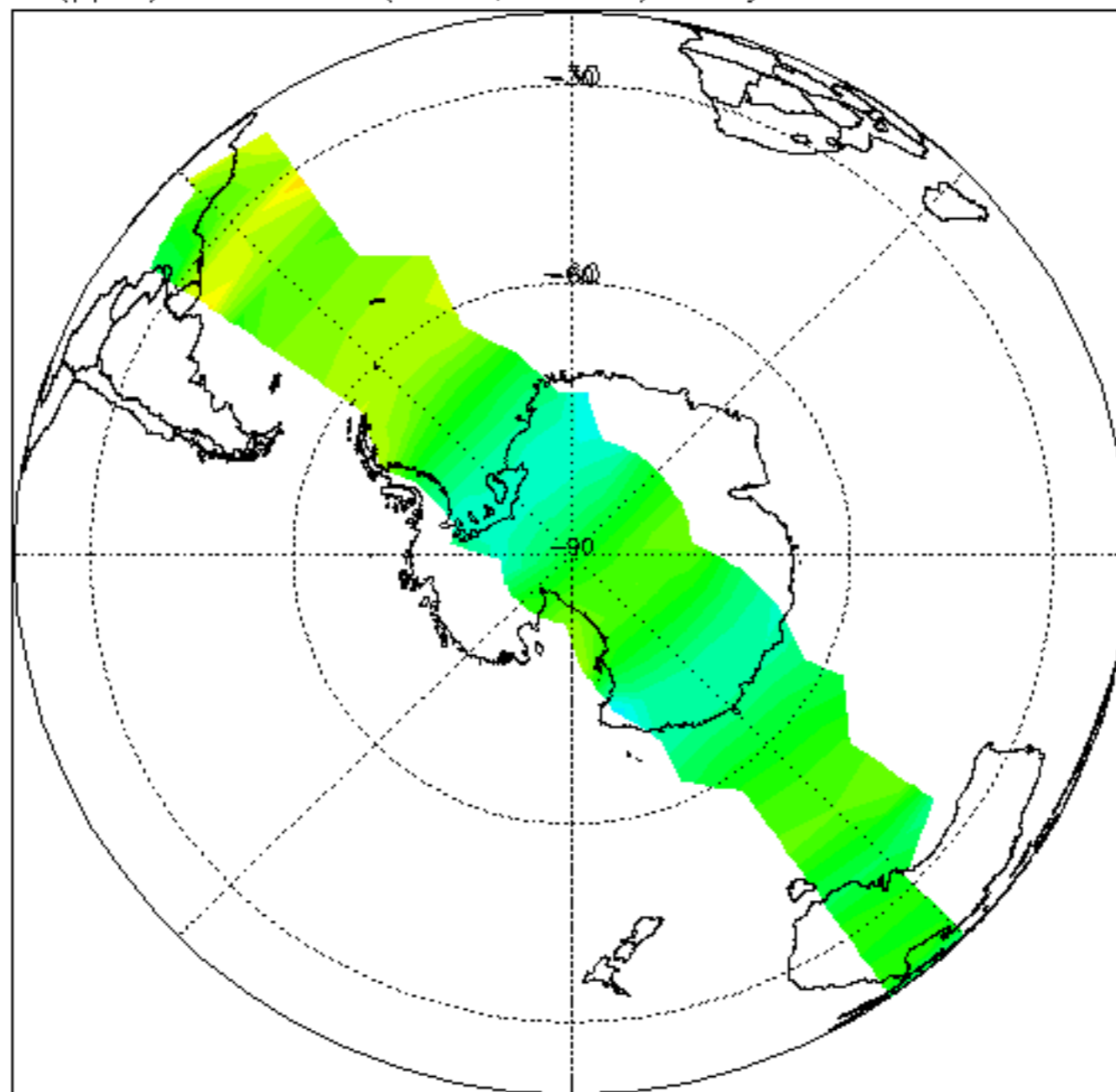
N₂O (ppb) at: 850 K (32km, 10hPa). Daily mean: 30-DEC-2011



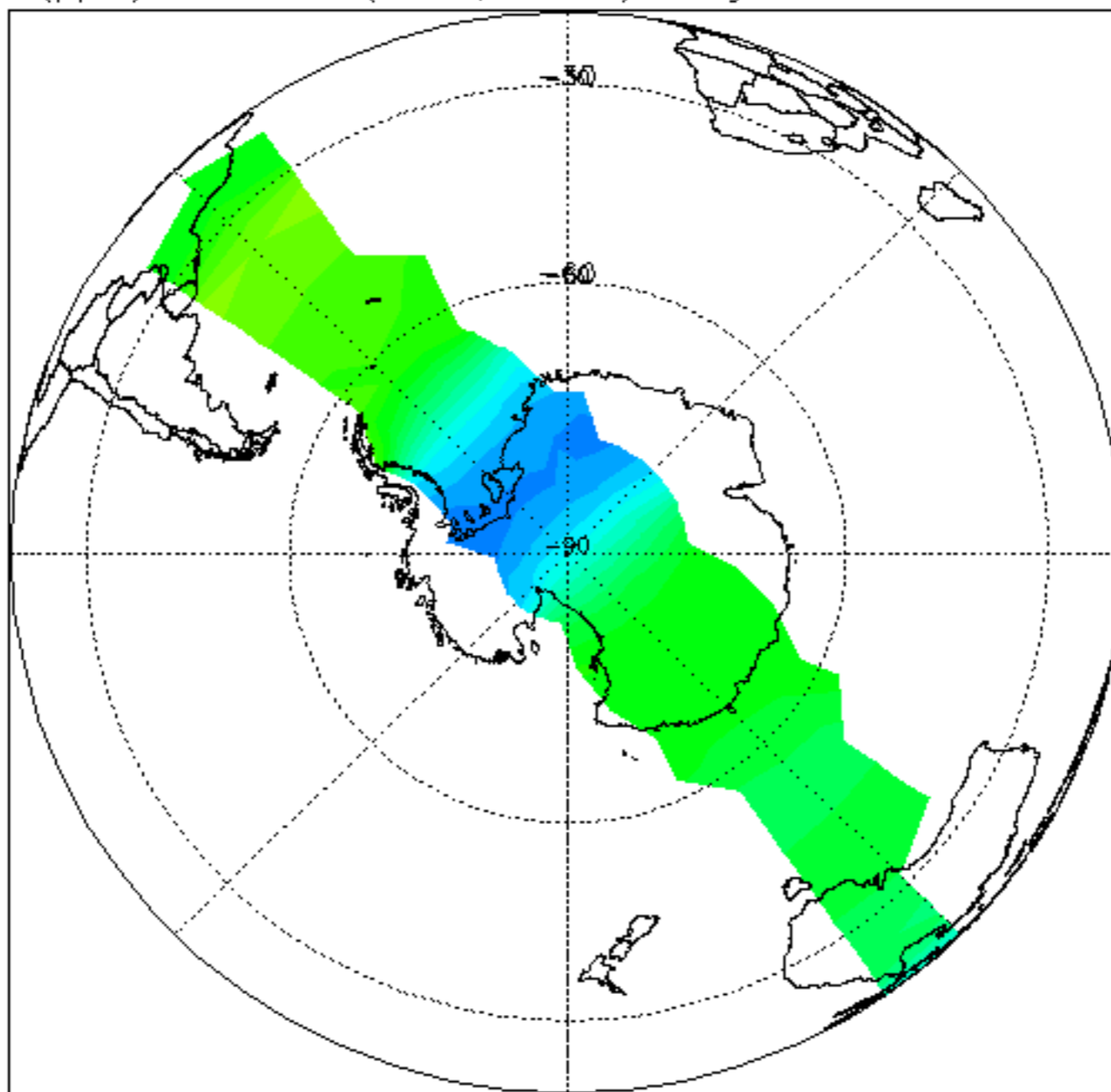
Temp (K) at: 490 K (19km, 55hPa). Daily mean: 30-DEC-2011



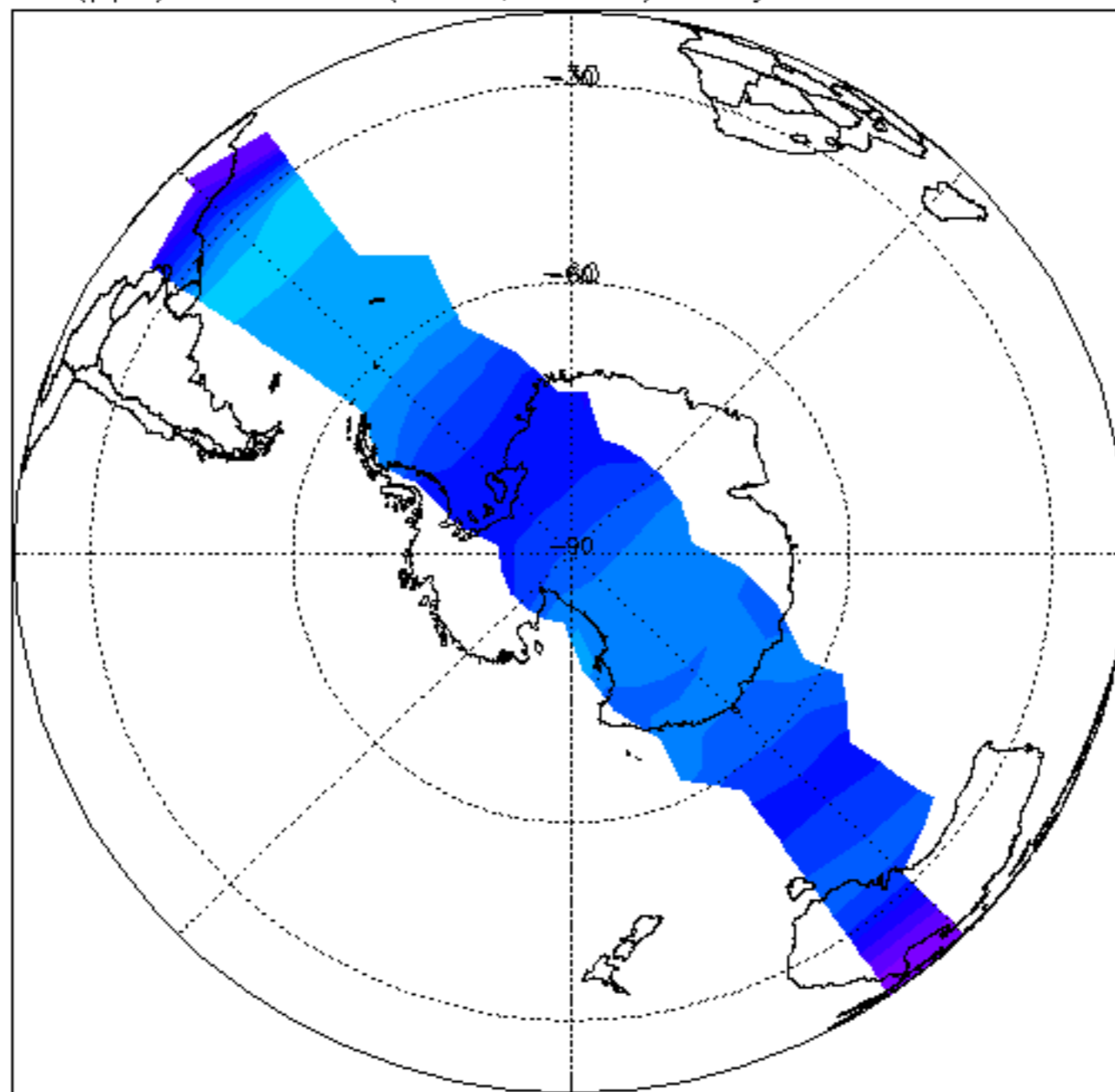
H₂O (ppm) at: 490 K (19km, 55hPa). Daily mean: 30-DEC-2011



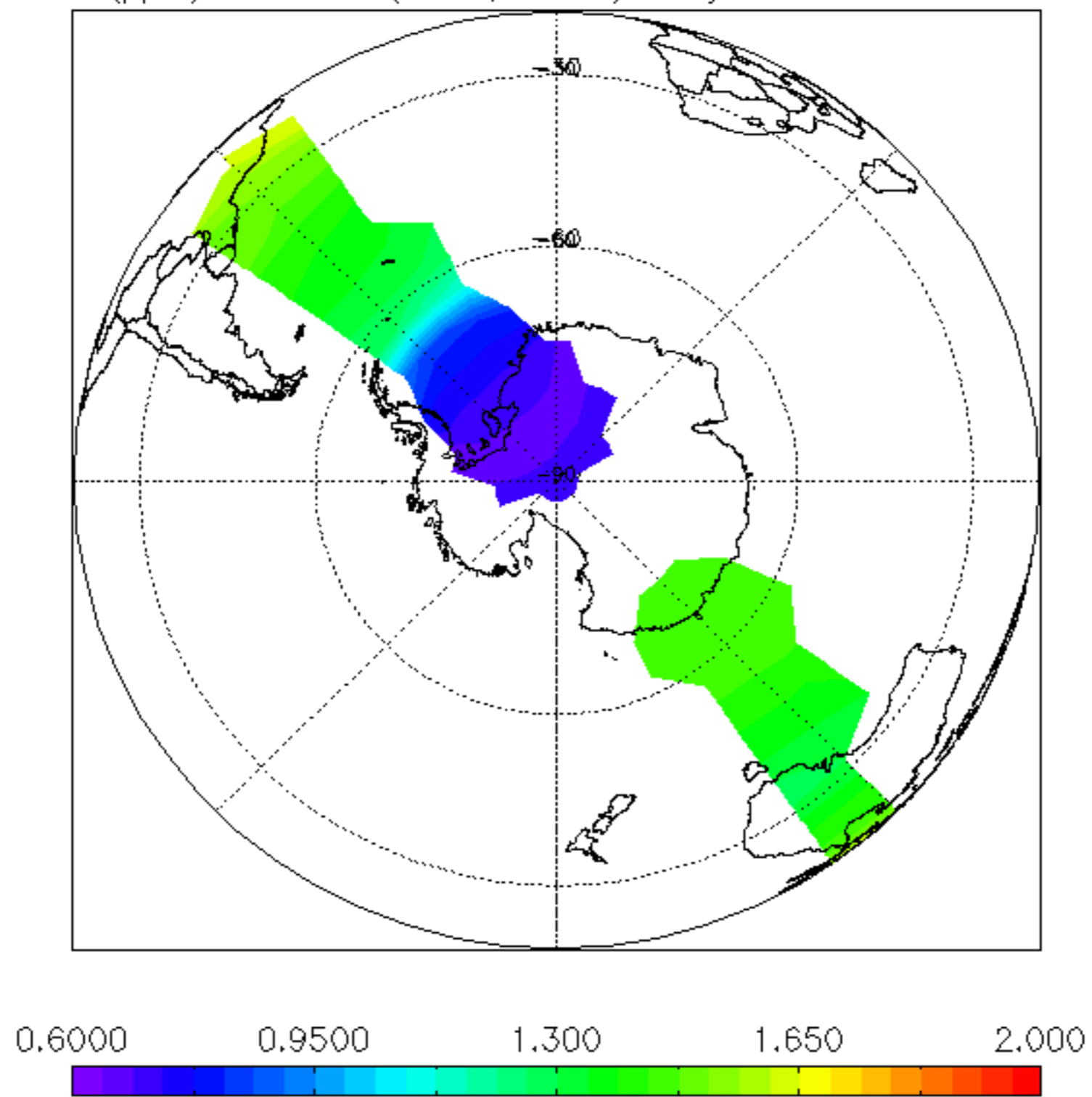
O₃ (ppm) at: 490 K (19km, 55hPa). Daily mean: 30-DEC-2011



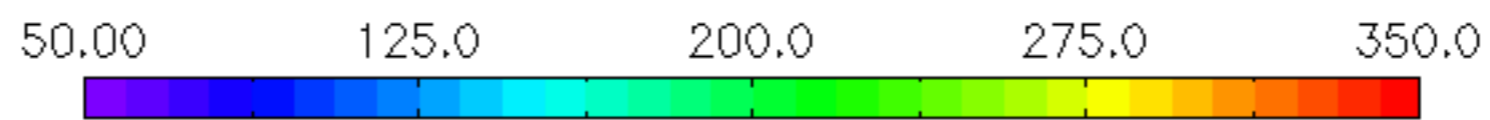
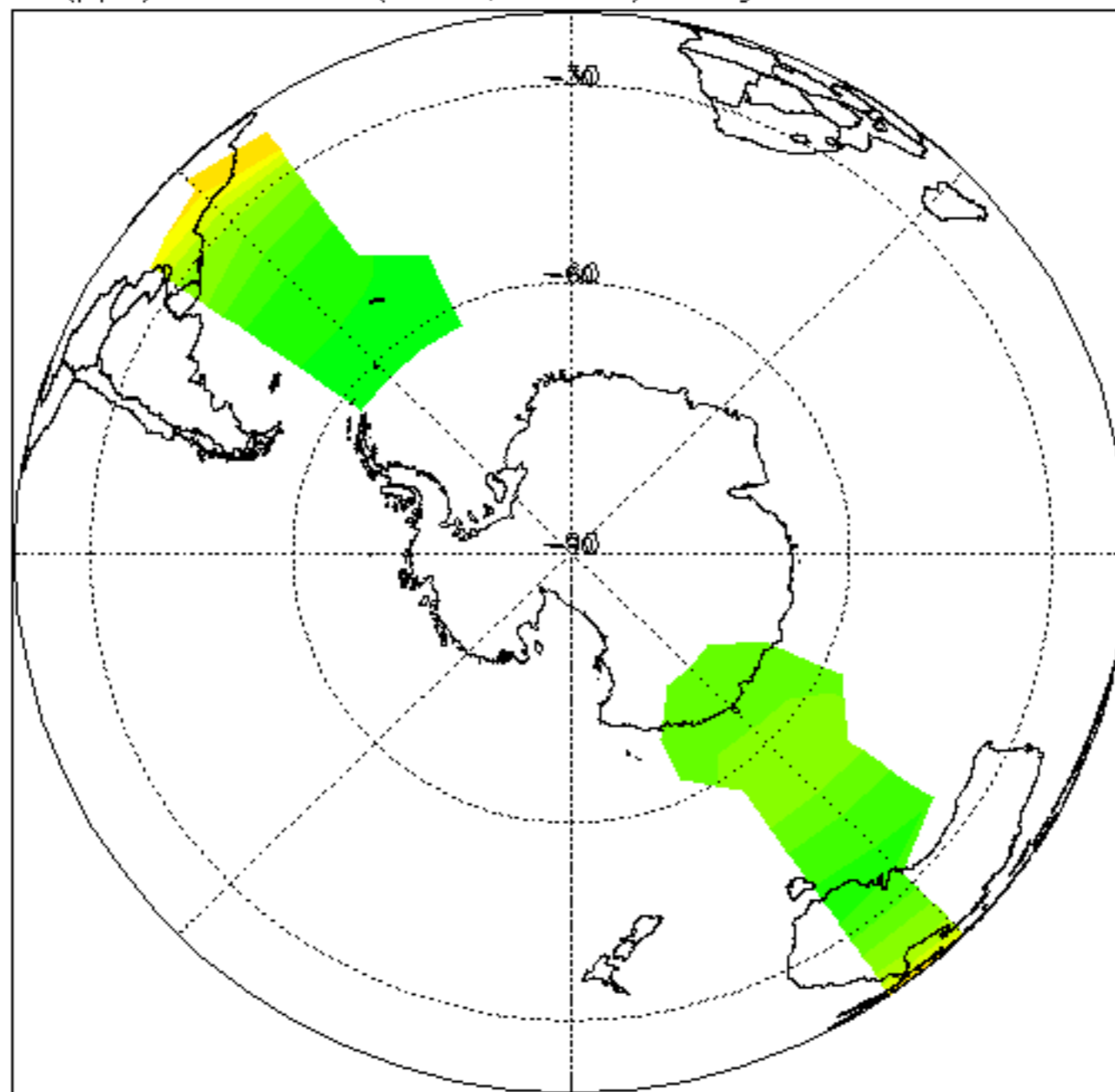
HN03 (ppb) at: 490 K (19km, 55hPa). Daily mean: 30-DEC-2011



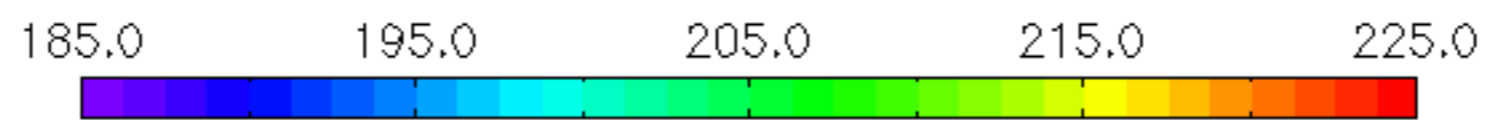
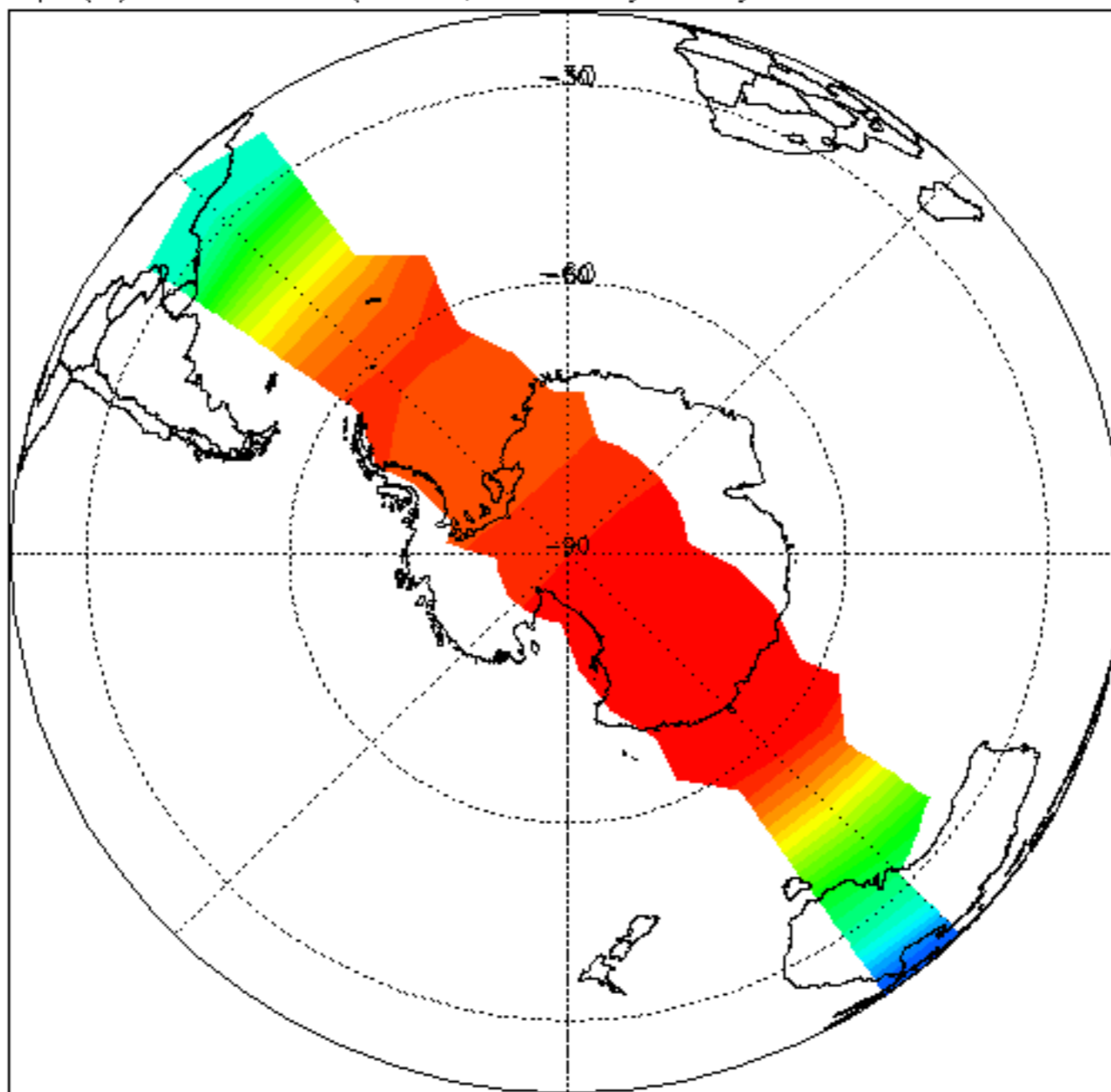
CH₄ (ppm) at: 490 K (19km, 55hPa). Daily mean: 30-DEC-2011



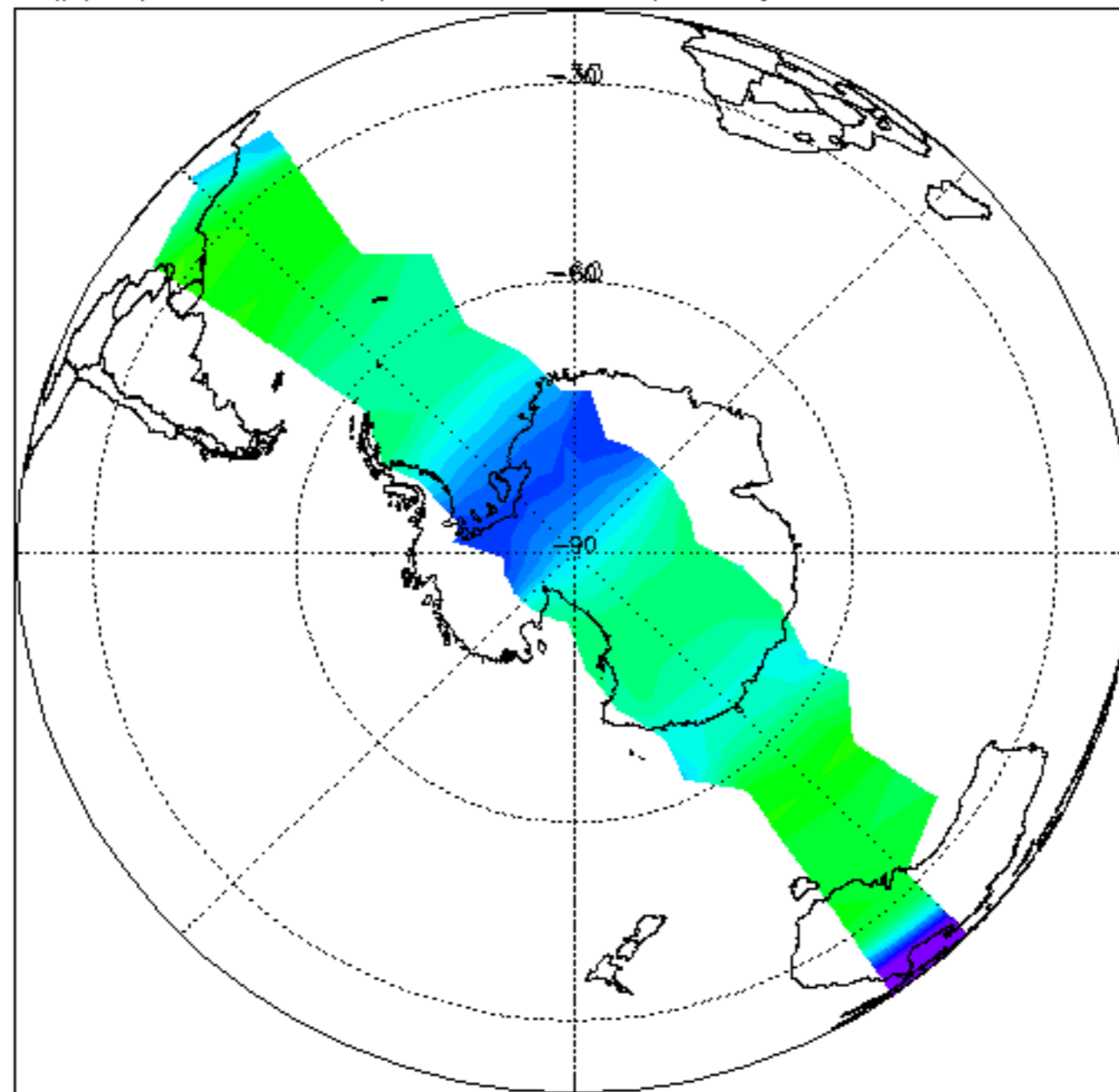
N₂O (ppb) at: 490 K (19km, 55hPa). Daily mean: 30-DEC-2011



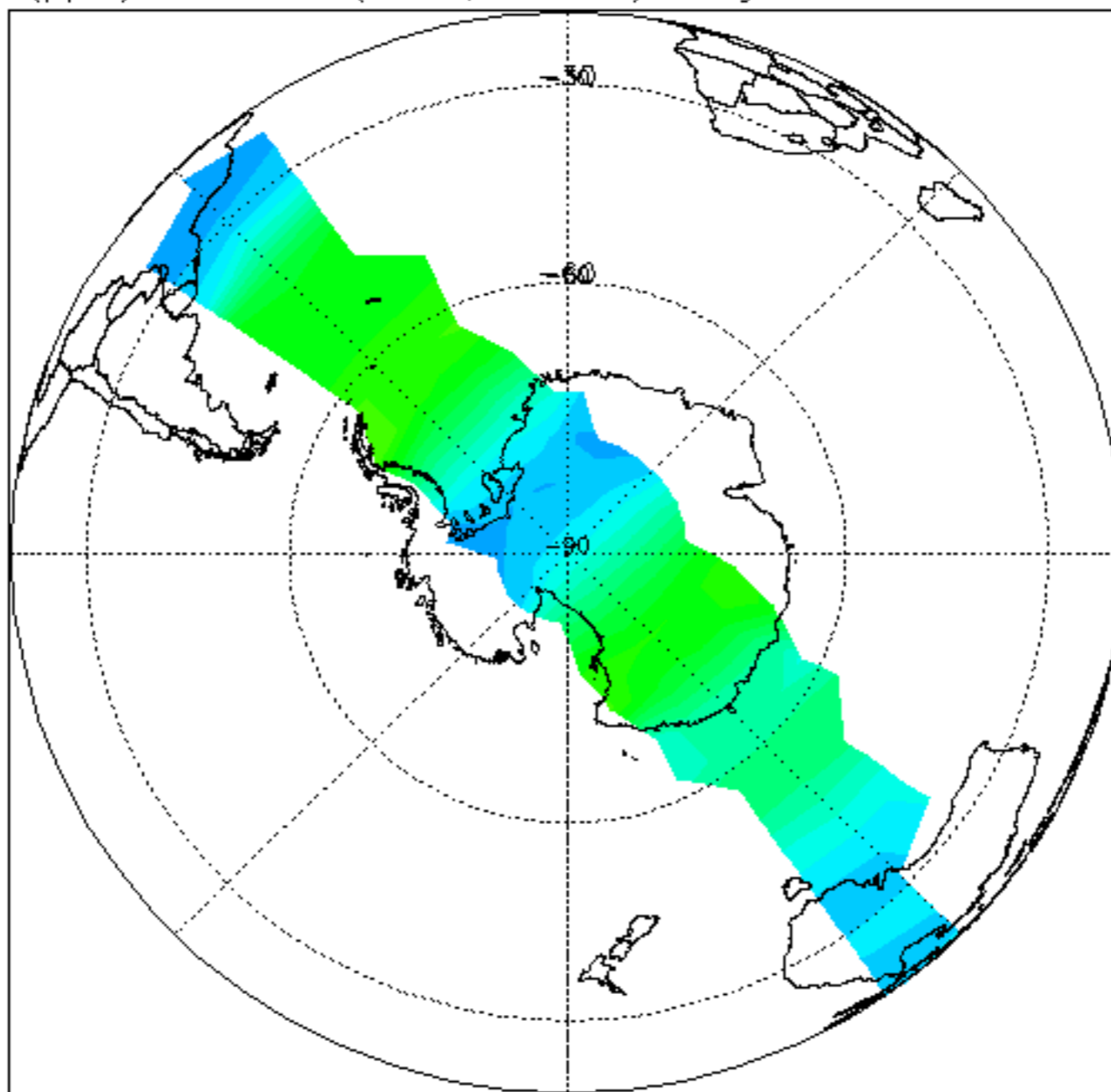
Temp (K) at: 410 K (16km, 100hPa). Daily mean: 30-DEC-2011



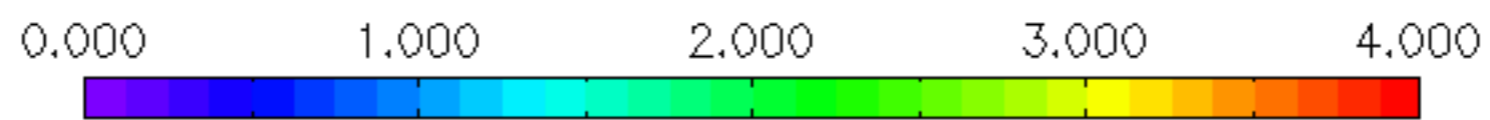
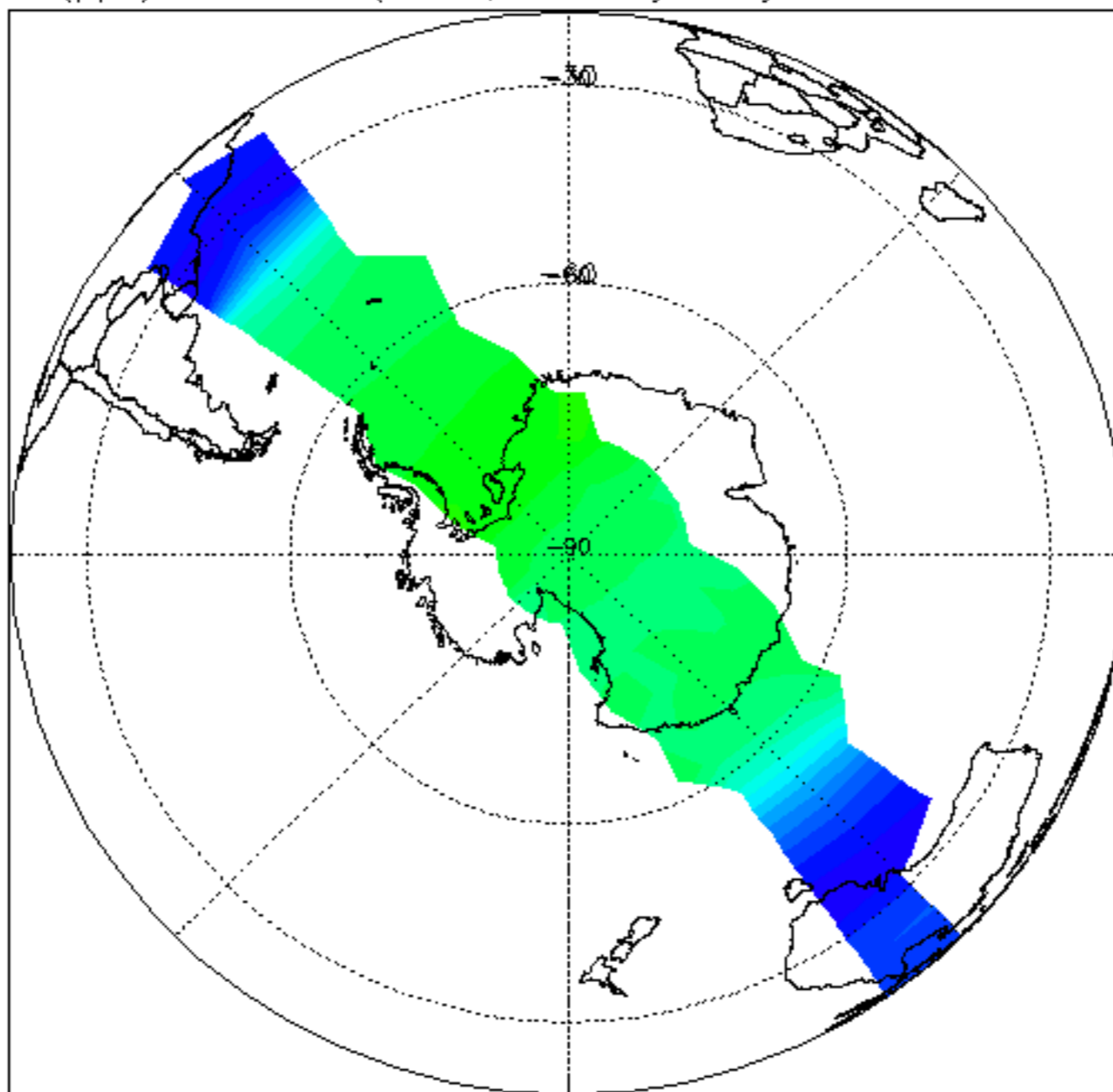
H₂O (ppm) at: 410 K (16km, 100hPa). Daily mean: 30-DEC-2011



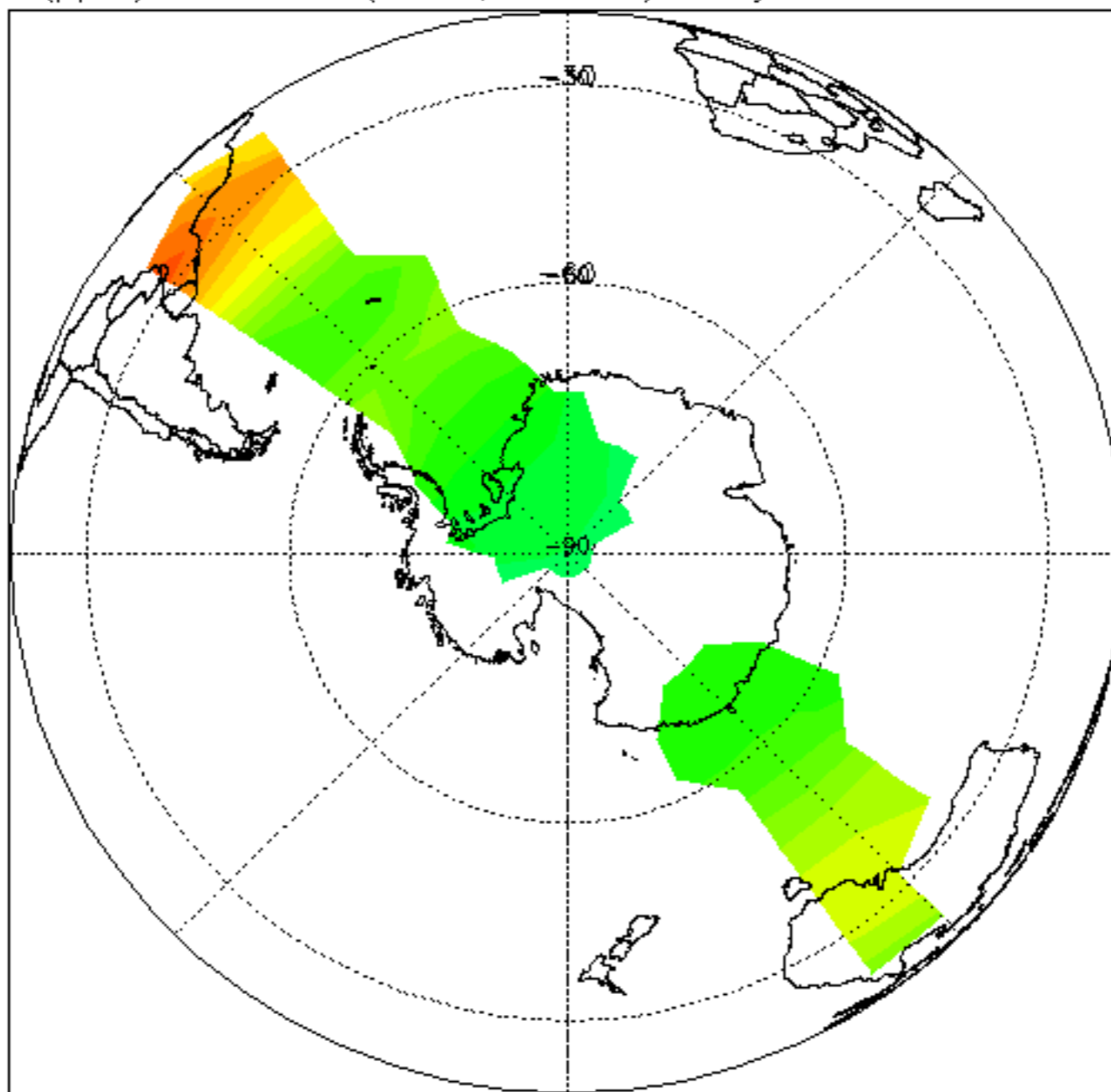
O₃ (ppm) at: 410 K (16km, 100hPa). Daily mean: 30-DEC-2011



HNO₃ (ppb) at: 410 K (16km, 100hPa). Daily mean: 30-DEC-2011



CH₄ (ppm) at: 410 K (16km, 100hPa). Daily mean: 30-DEC-2011



N2O (ppb) at: 410 K (16km, 100hPa). Daily mean: 30-DEC-2011

