

## MIPAS maps of mean distribution: 31-OCT-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.

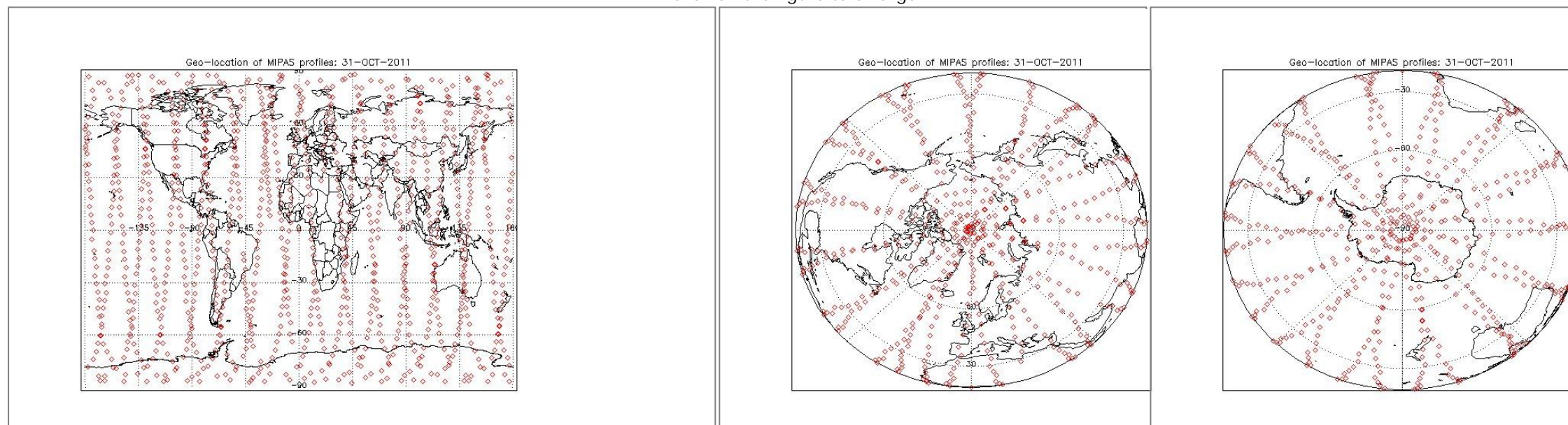
Note that Upper and Middle Atmosphere measurements are only retrieved up to 70km.

Total Number of profiles: 1068

Retrieved Parameter	Profiles not reaching convergence (%)	Profiles exceeding chi2 threshold (%)
p-T	25.28	0.28
H2O	25.37	0.09
O3	25.37	0.09
HNO3	91.85	0.09
CH4	25.28	0.28
N2O	25.28	0.19
NO2	25.47	0.09

### Geo-location of MIPAS profiles

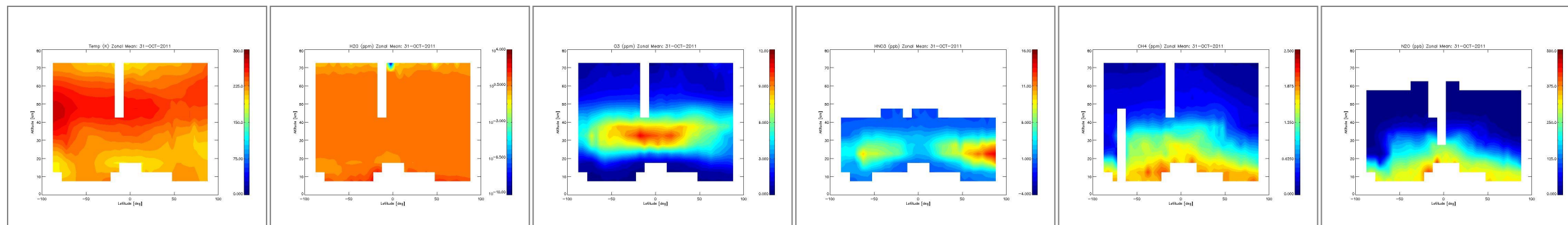
Click on the figure to enlarge



### 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)						

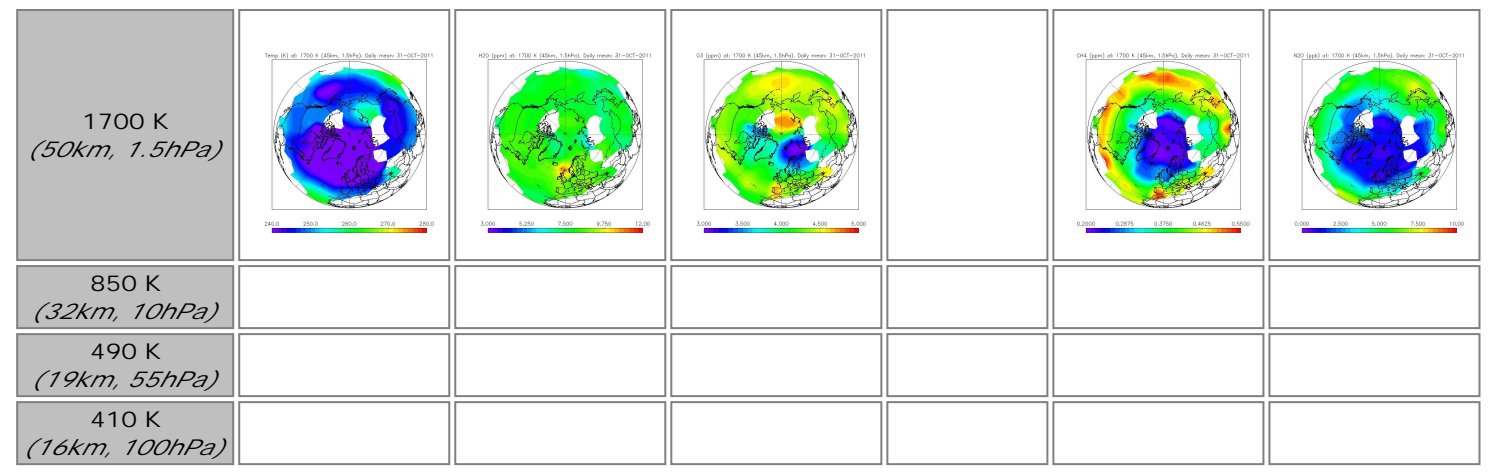
[Home](#)

-----

### 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)						

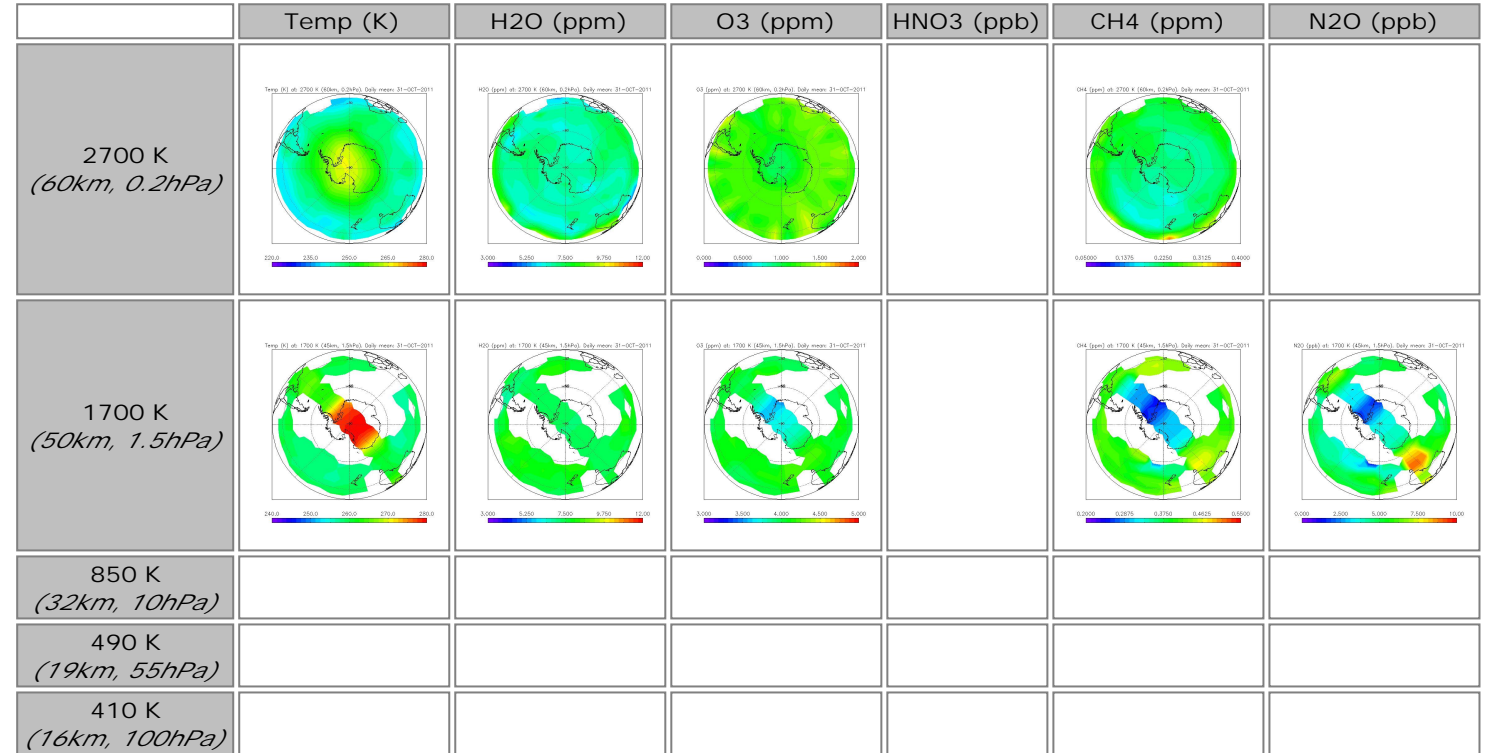


[Home](#)

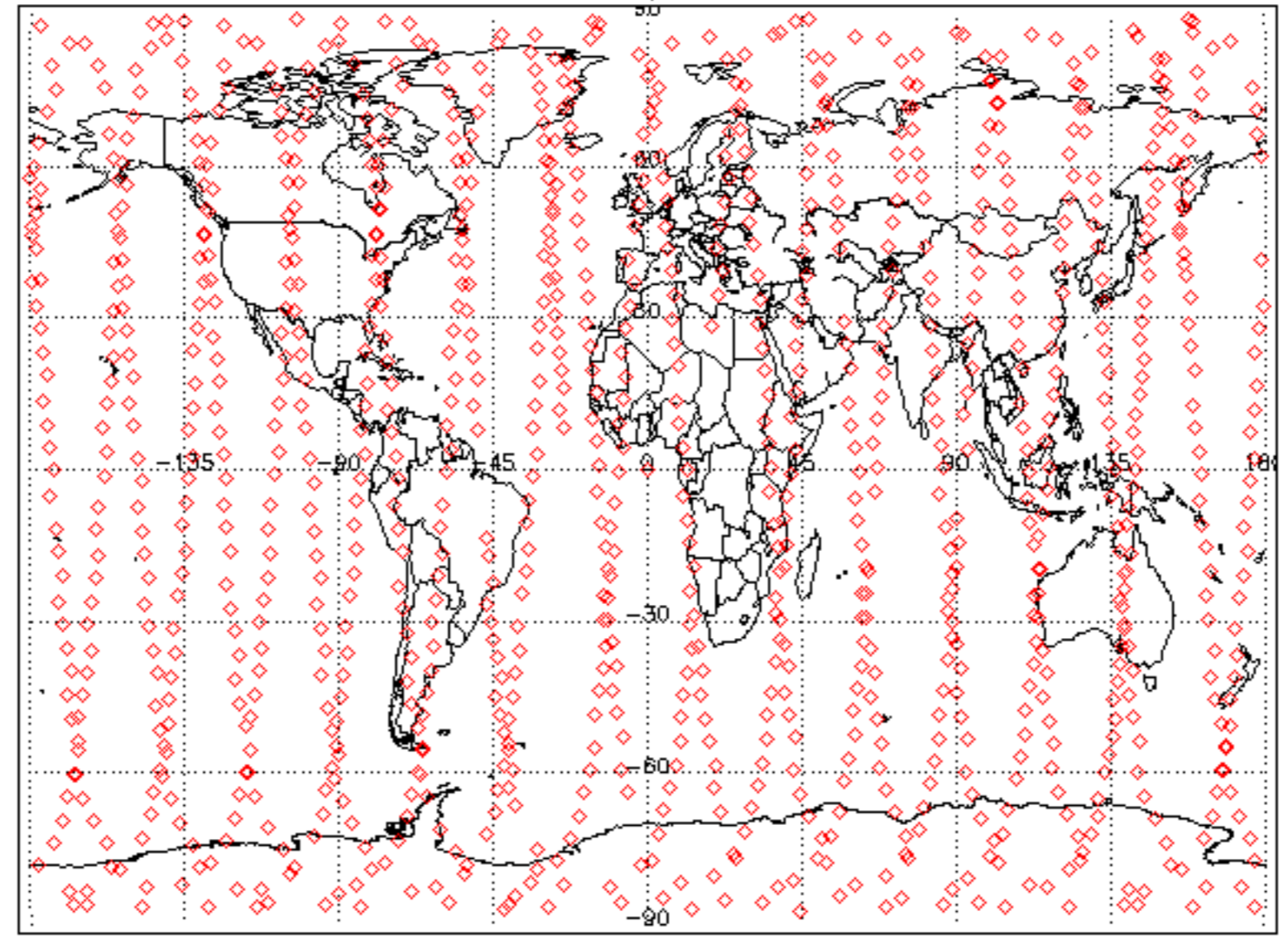
-----

Antarctic distribution interpolated at different isentropic levels

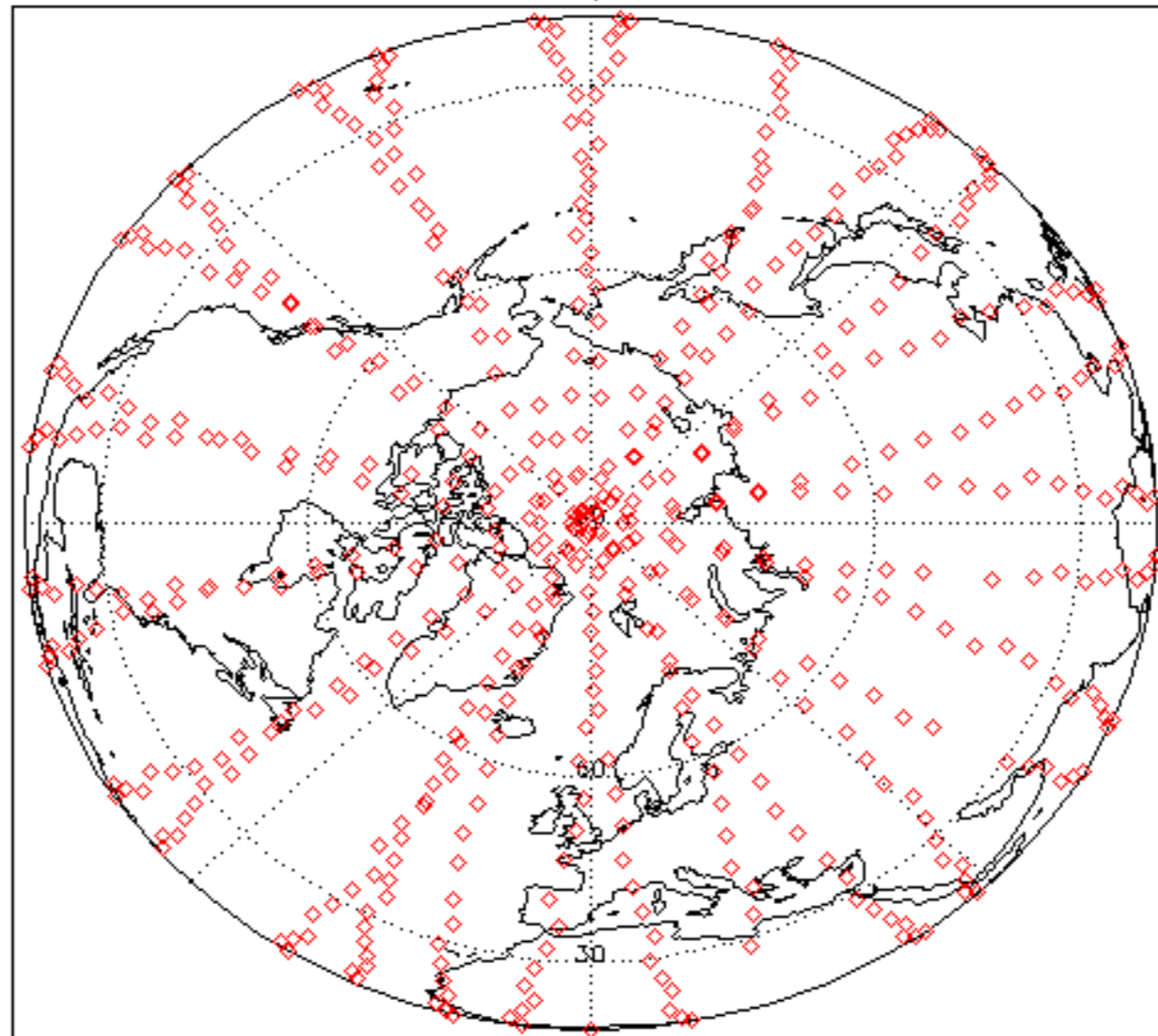
Click on the figure to enlarge



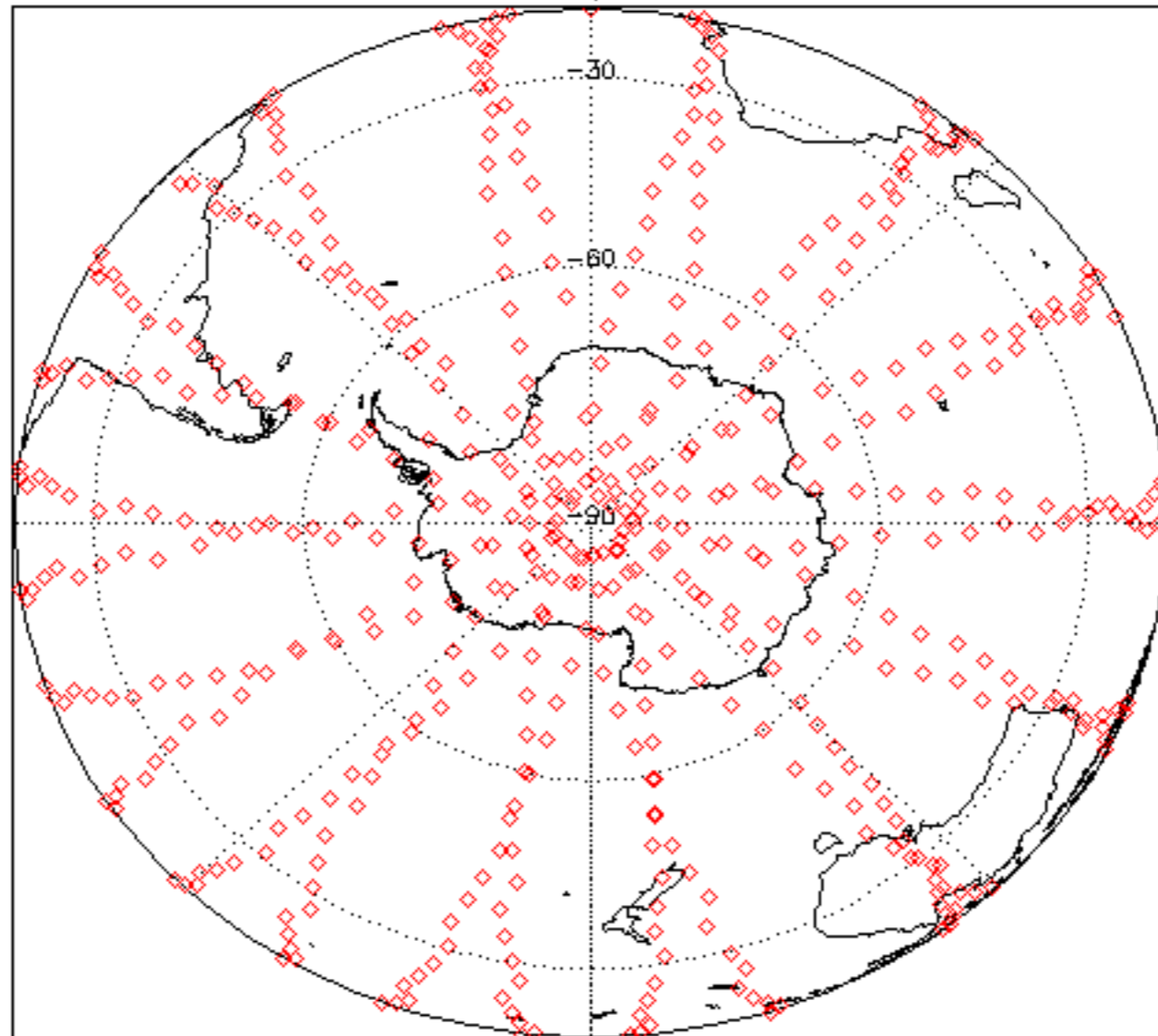
Geo-location of MIPAS profiles: 31-OCT-2011

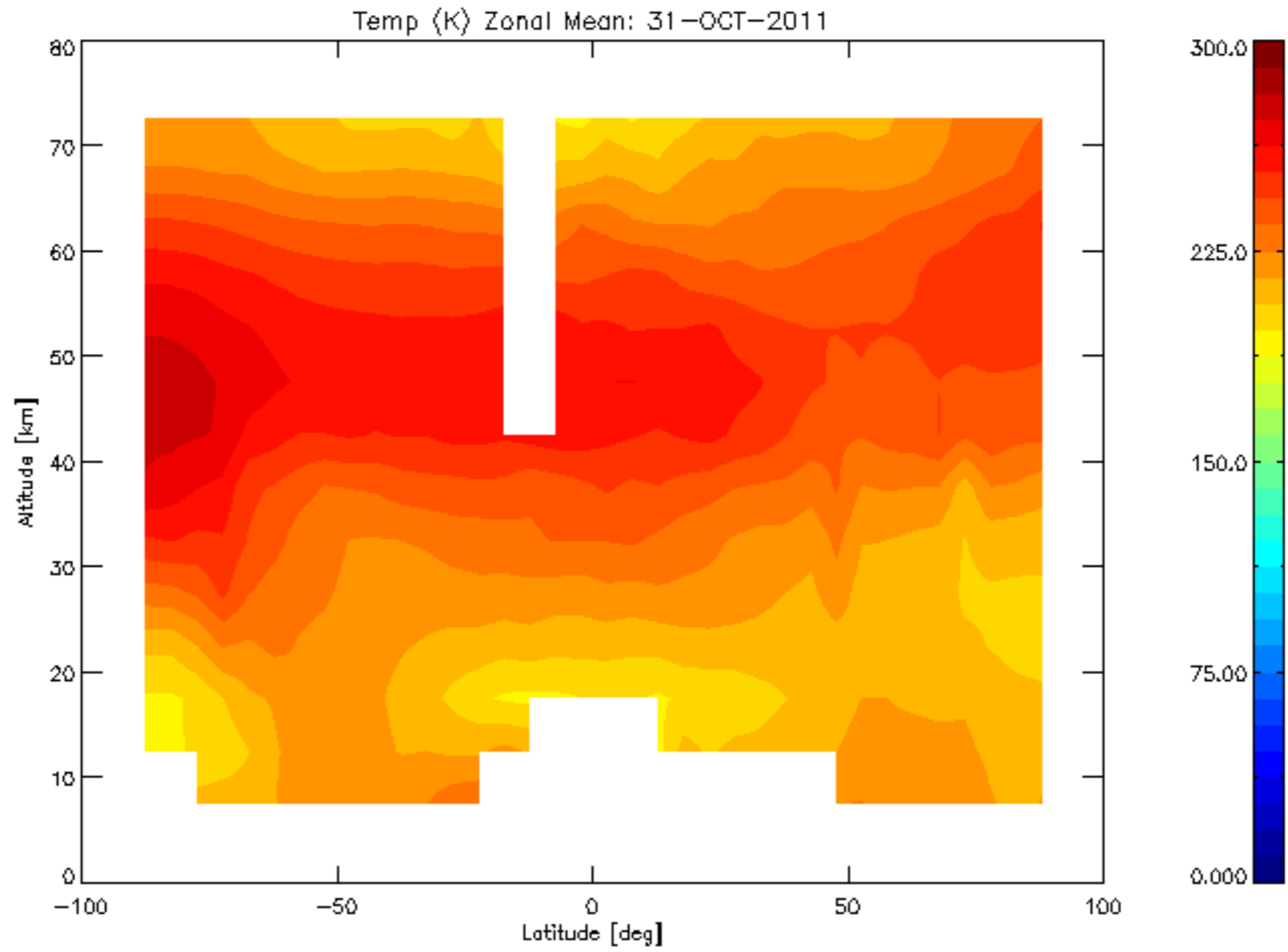


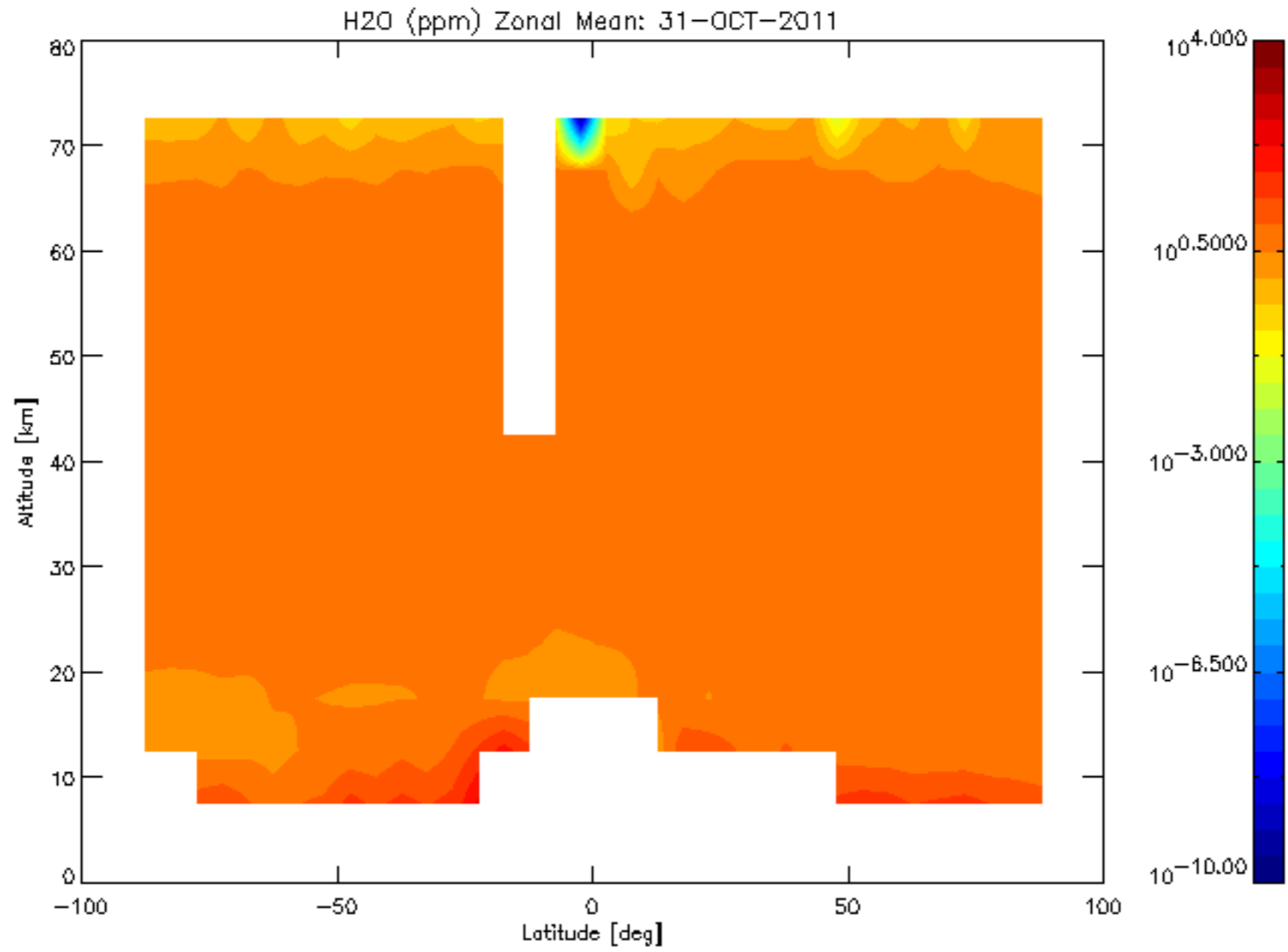
Geo-location of MIPAS profiles: 31-OCT-2011



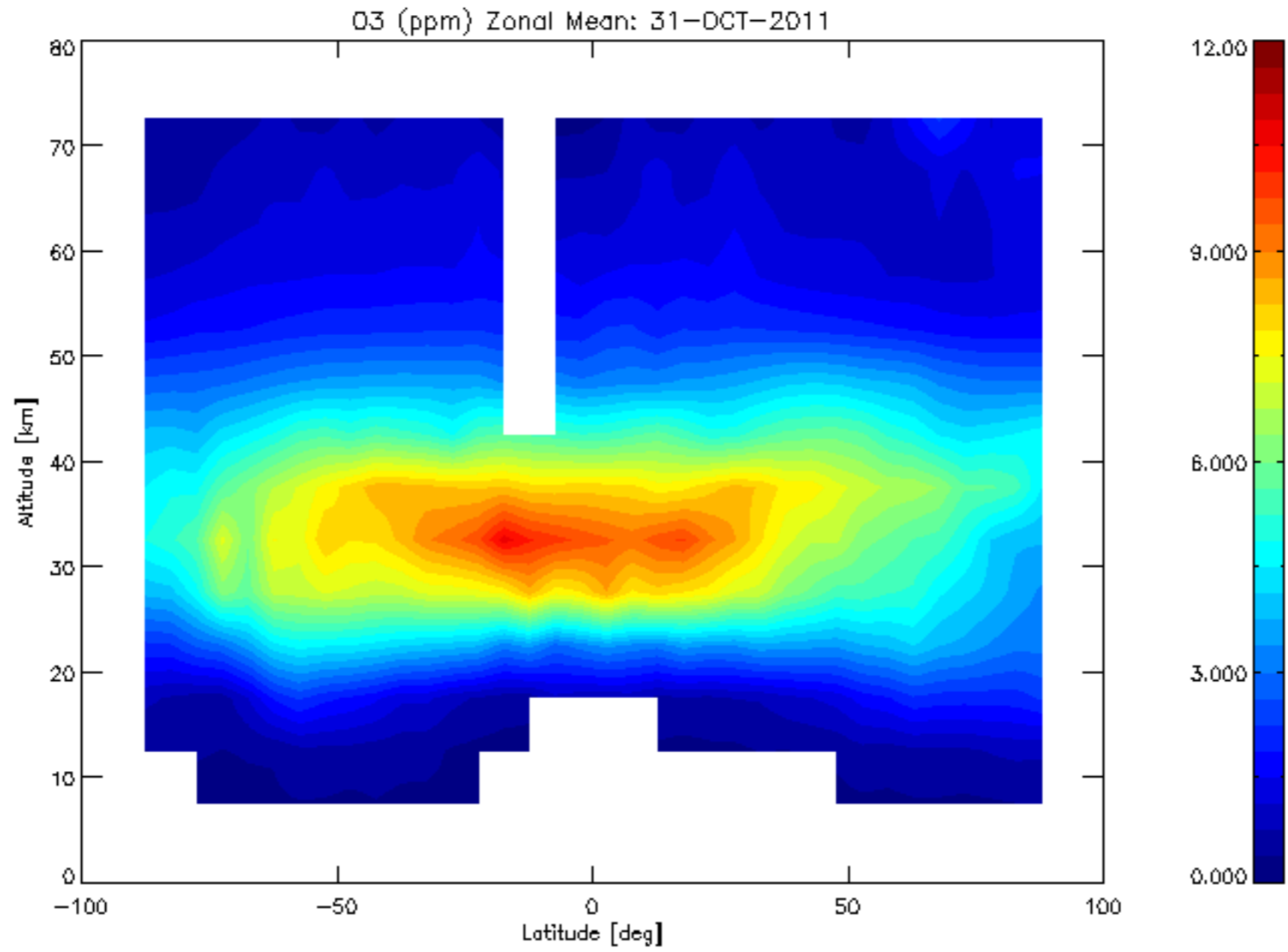
Geo-location of MIPAS profiles: 31-OCT-2011

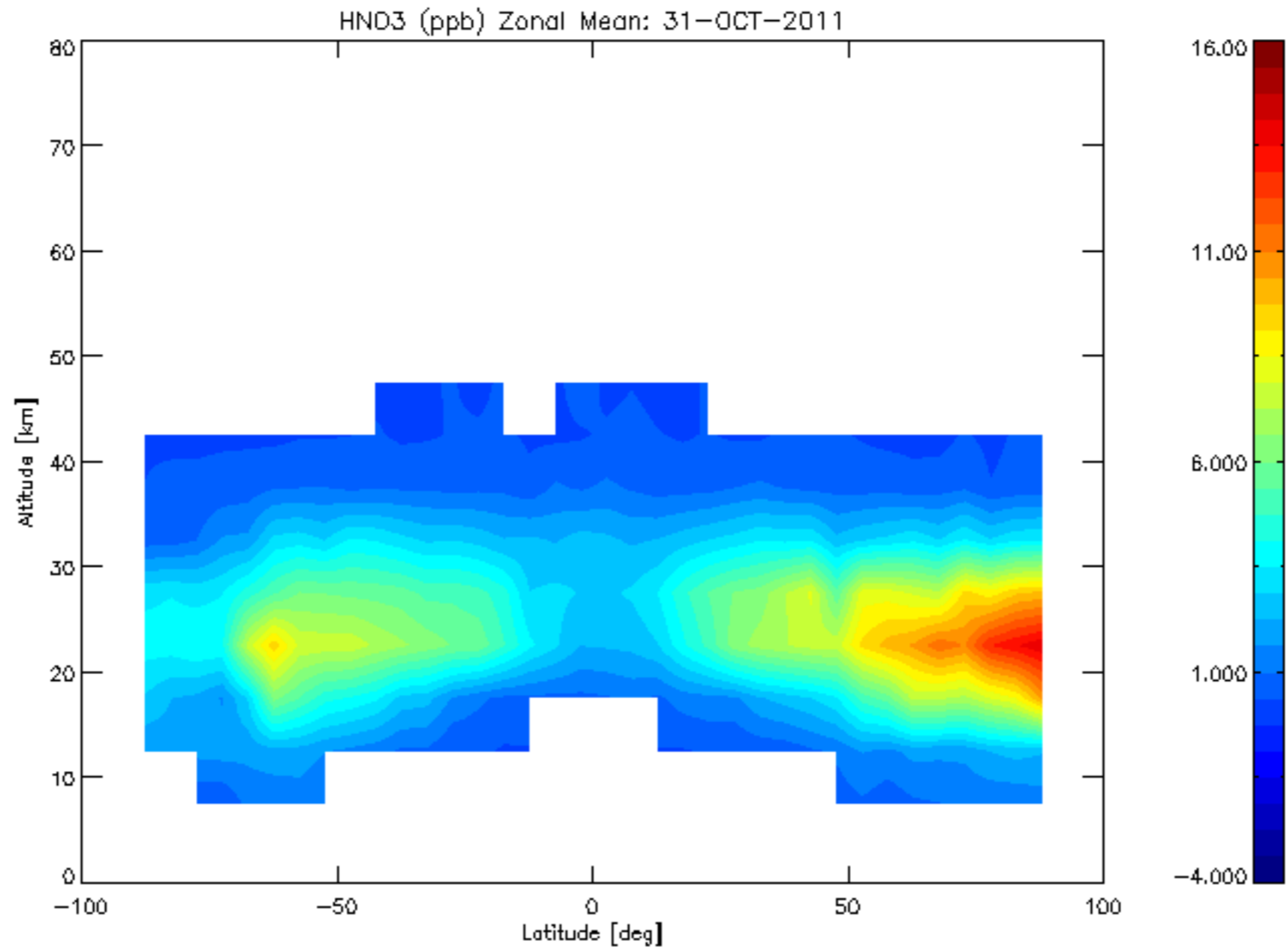


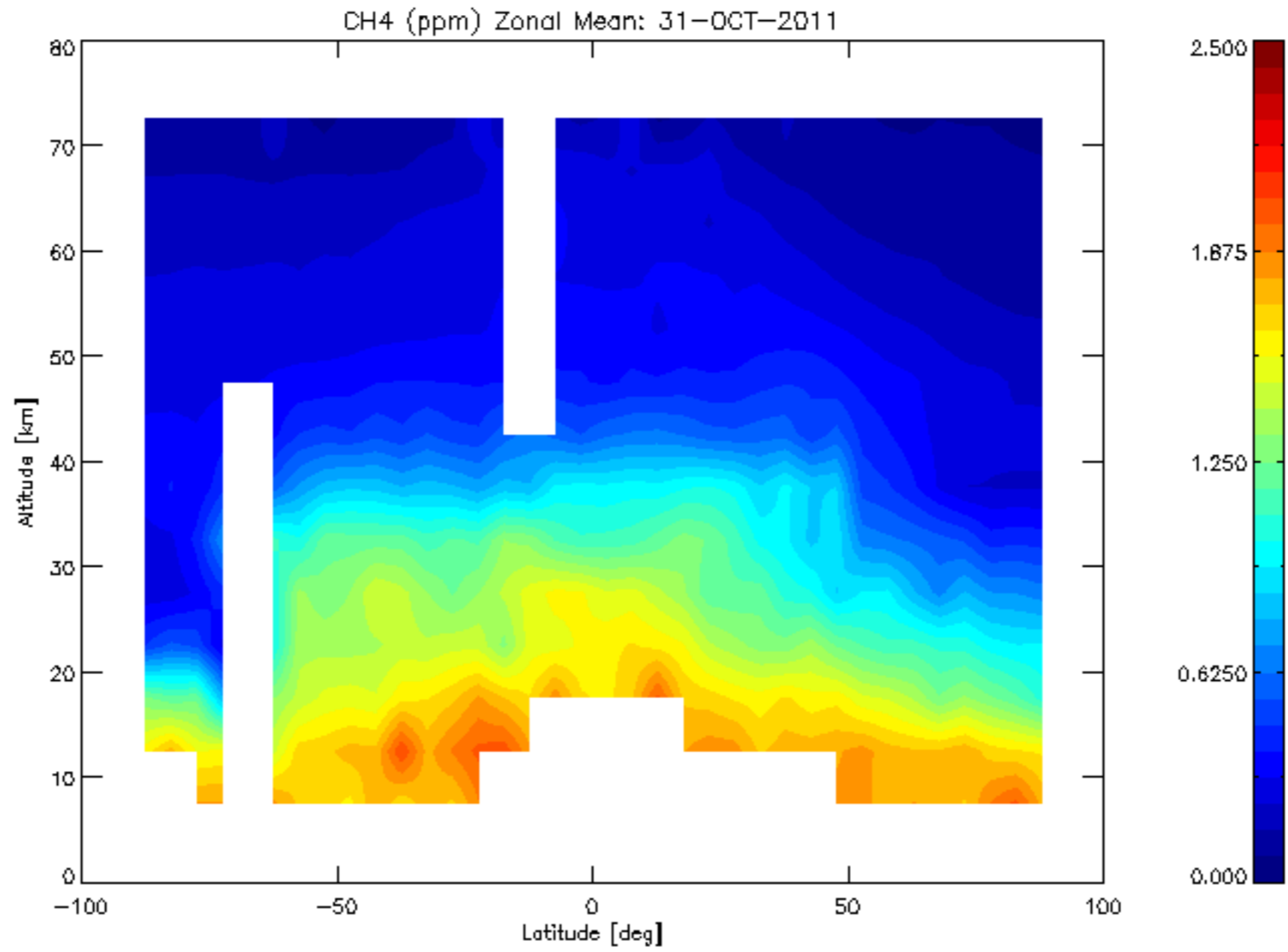


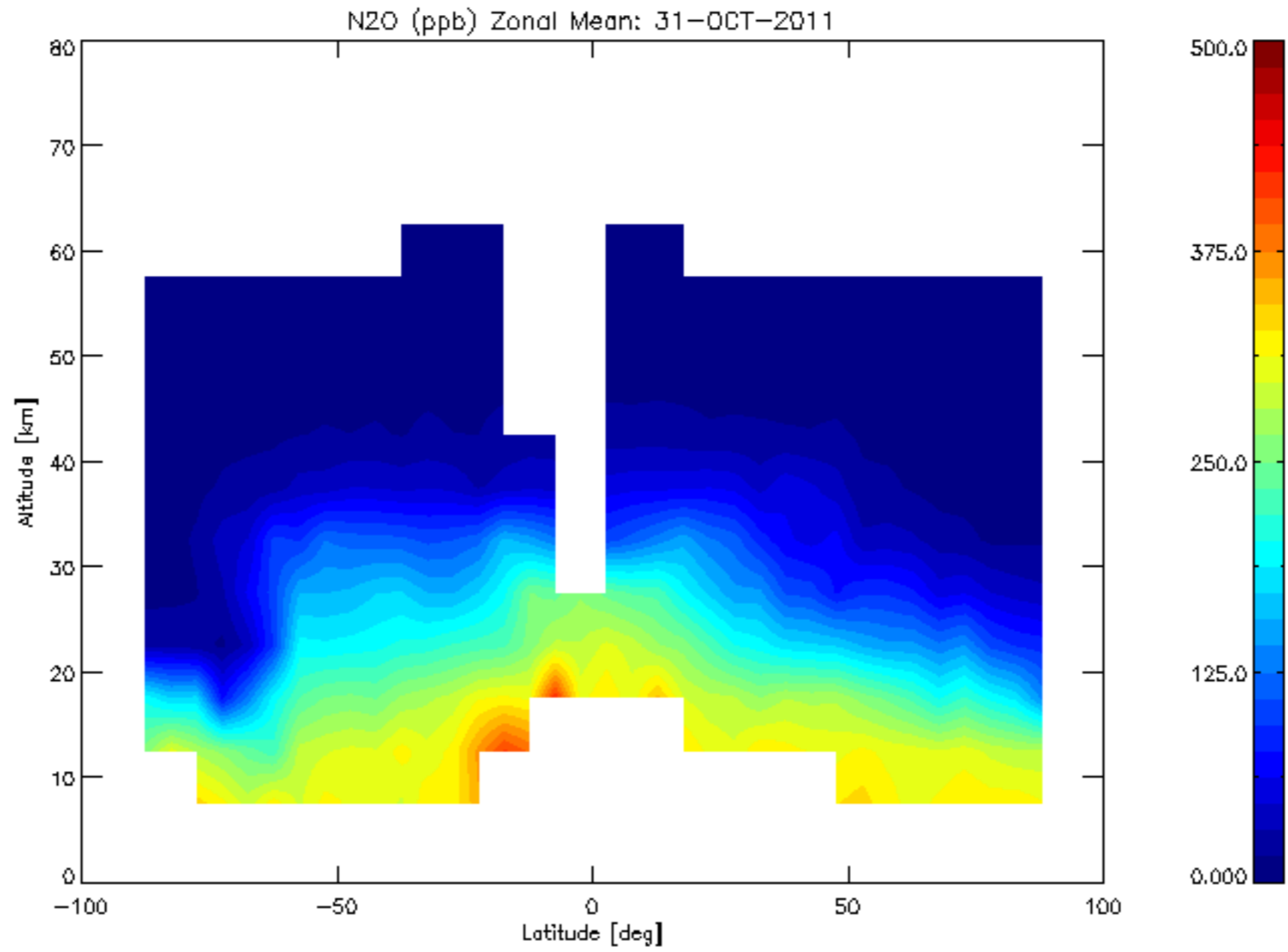




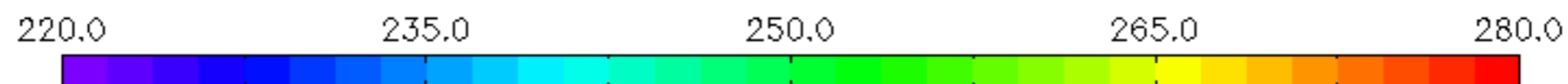
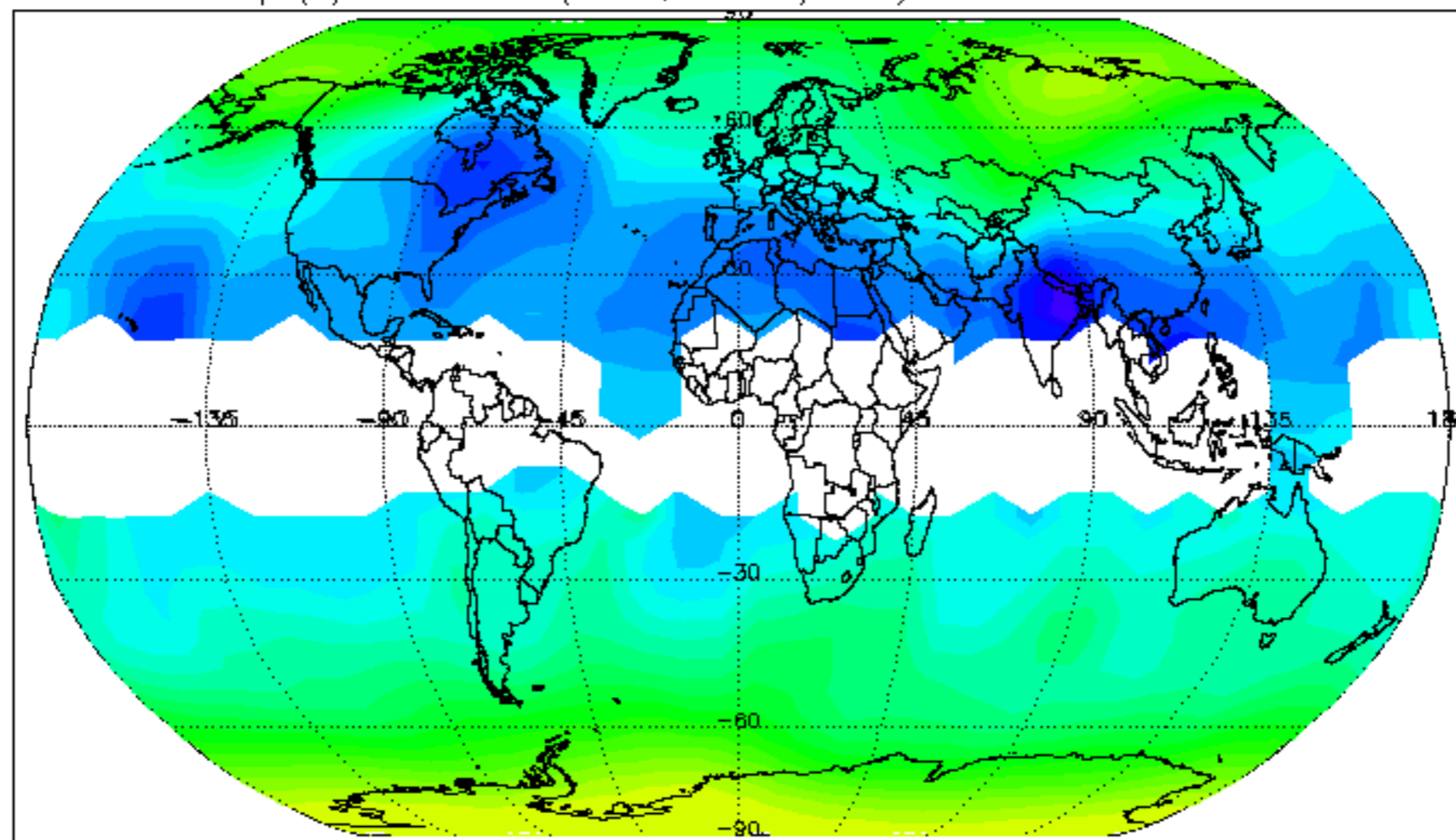




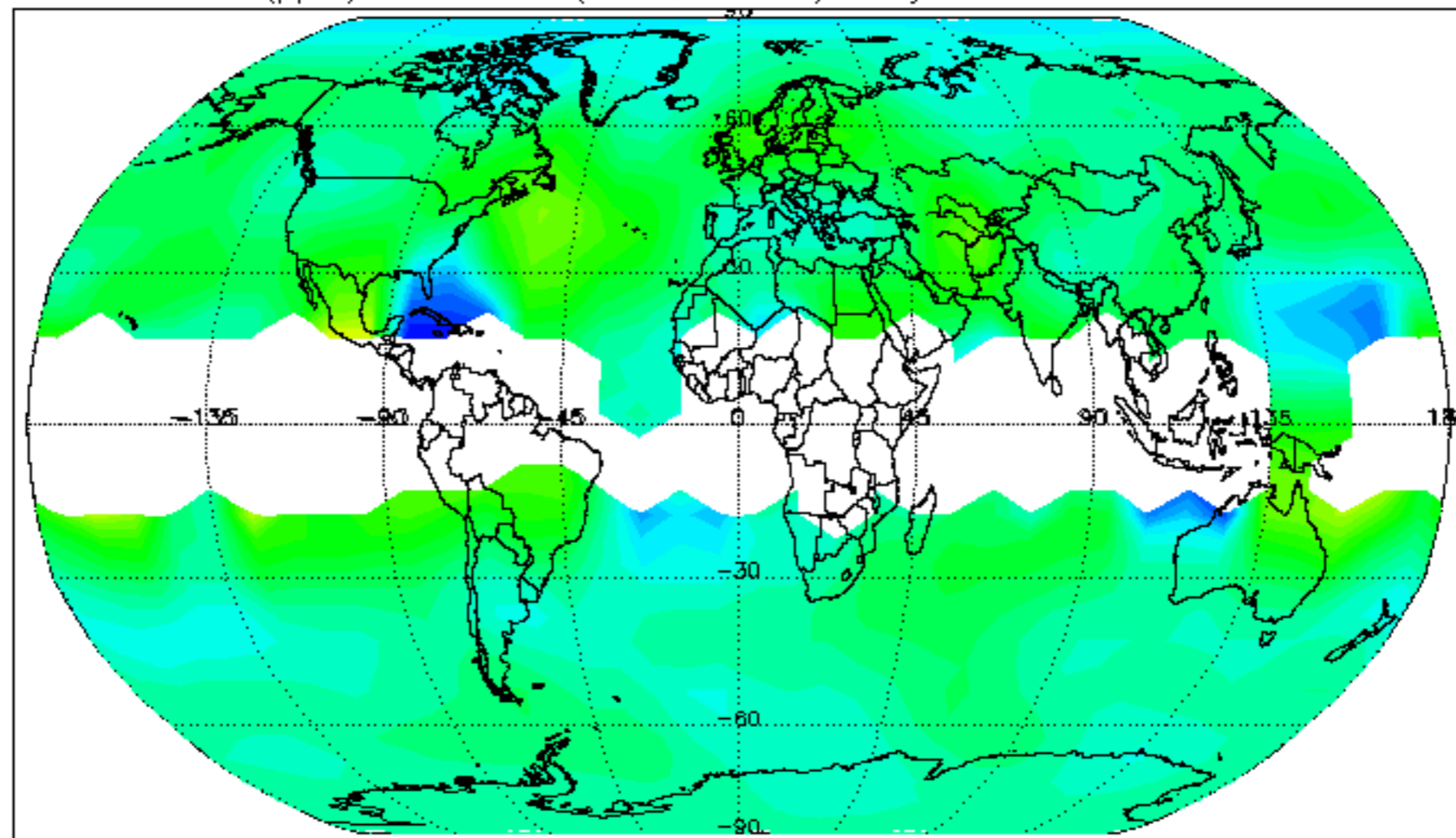




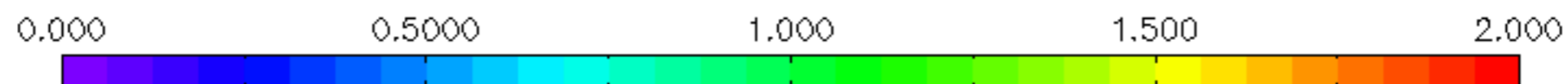
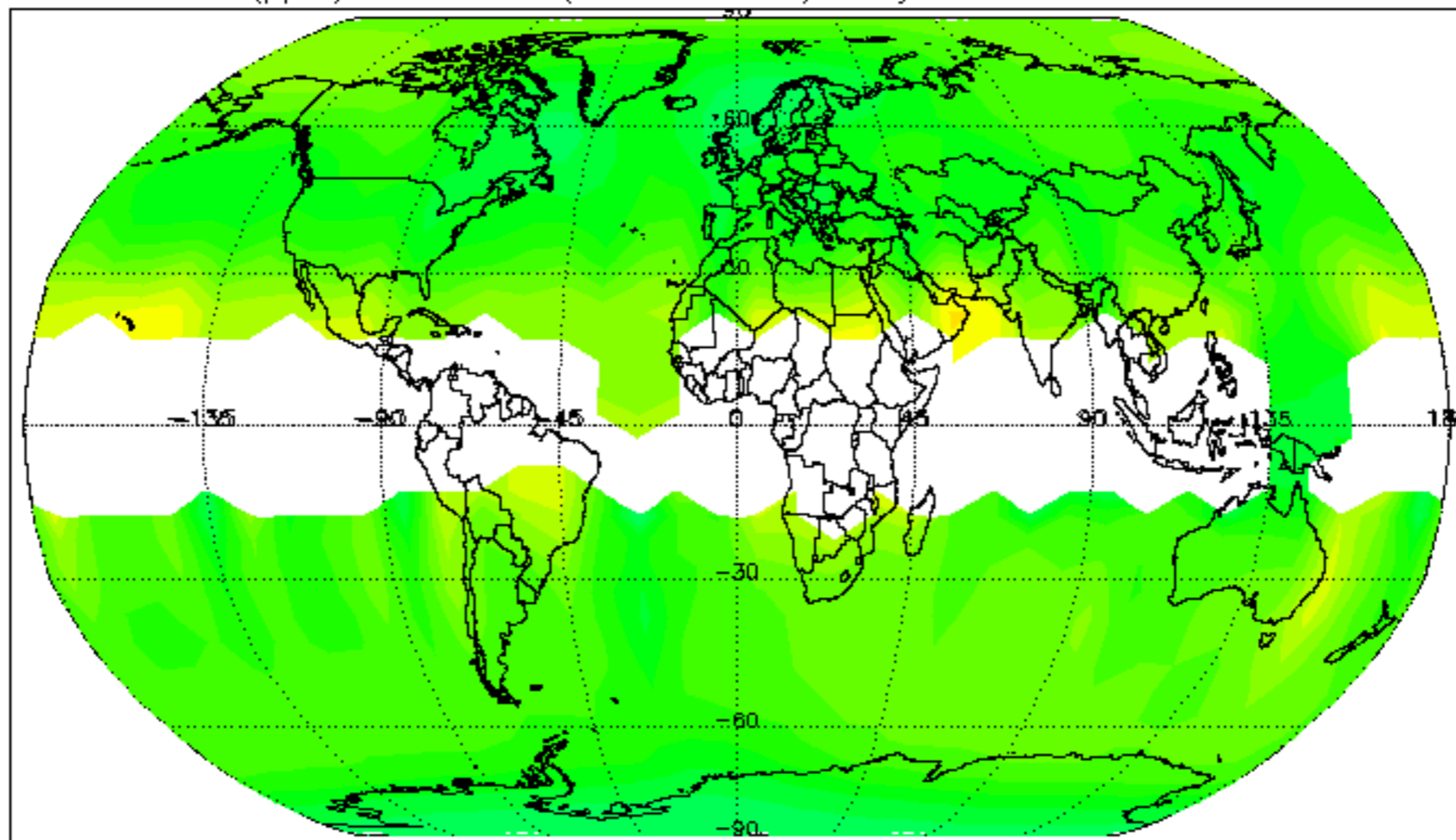
Temp (K) at: 2700 K (60km, 0.2hPa). Daily mean: 31-OCT-2011



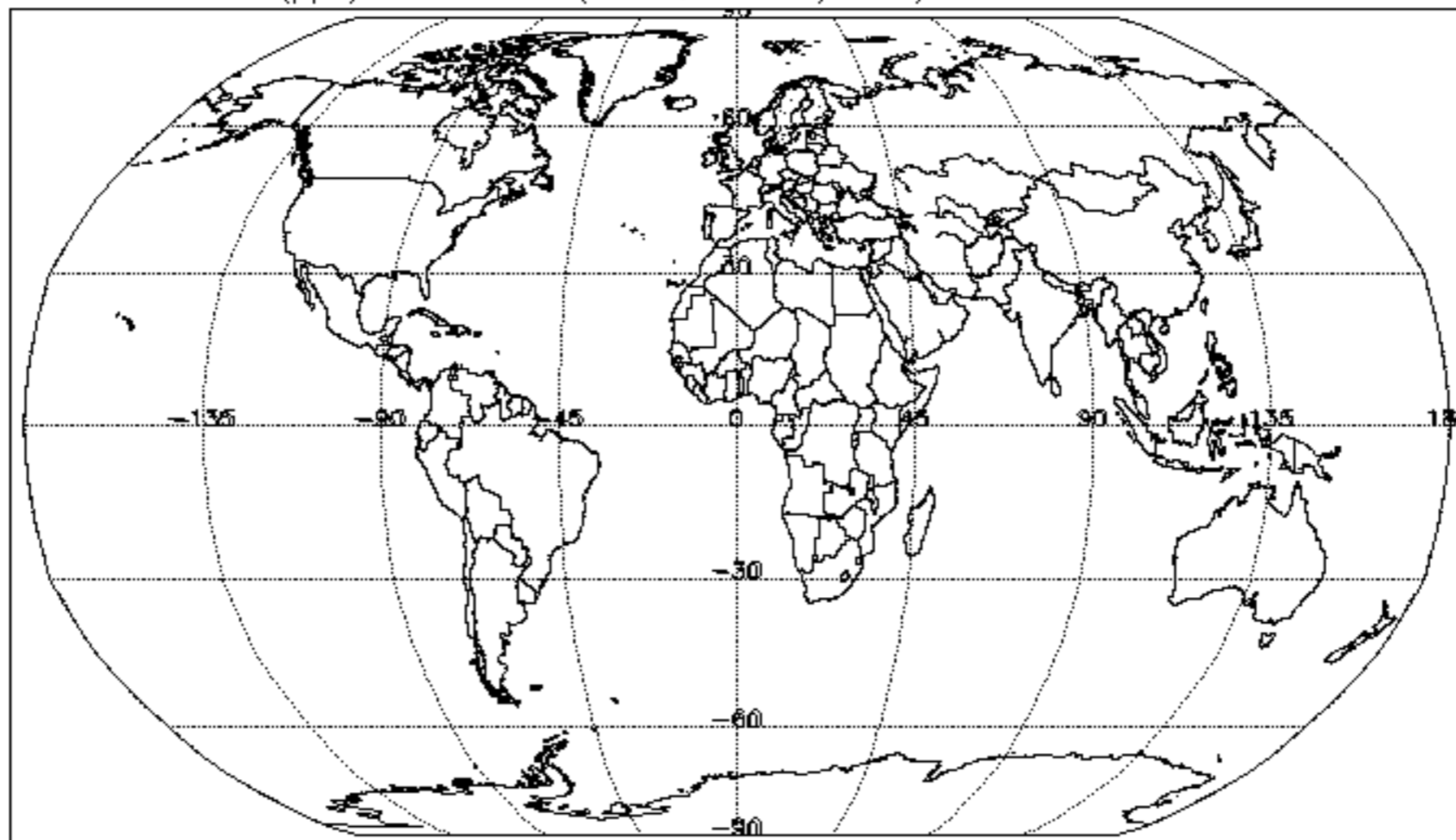
H<sub>2</sub>O (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 31-OCT-2011



O<sub>3</sub> (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 31-OCT-2011

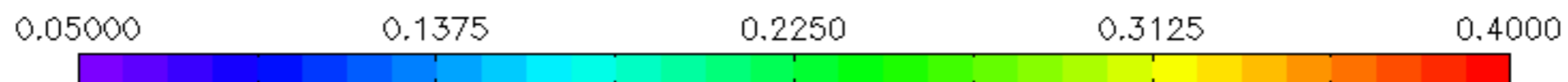
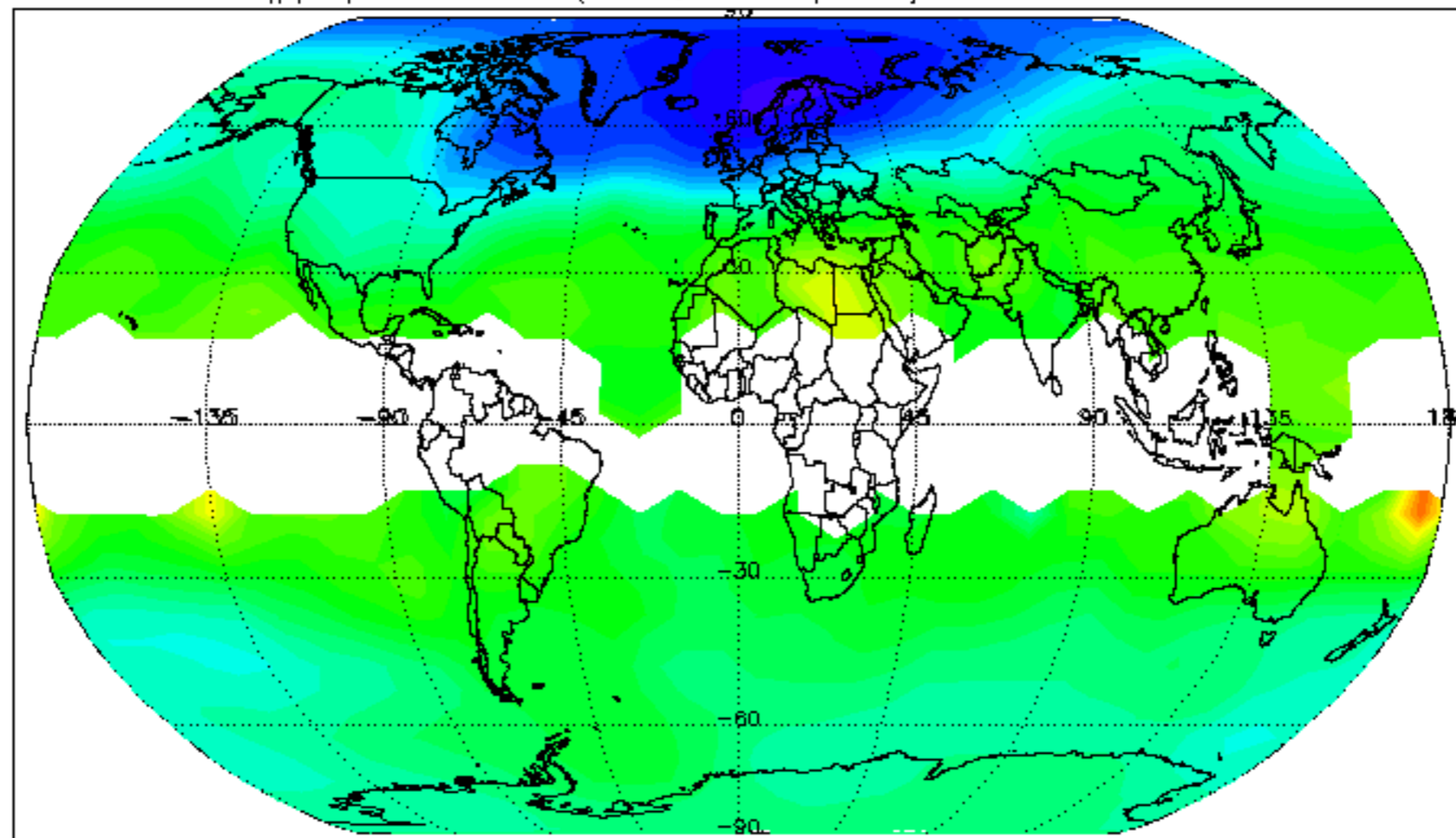


HNO<sub>3</sub> (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 31-OCT-2011

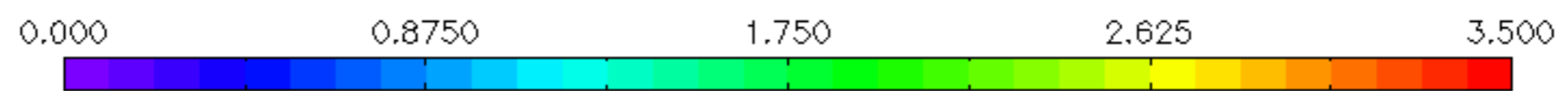
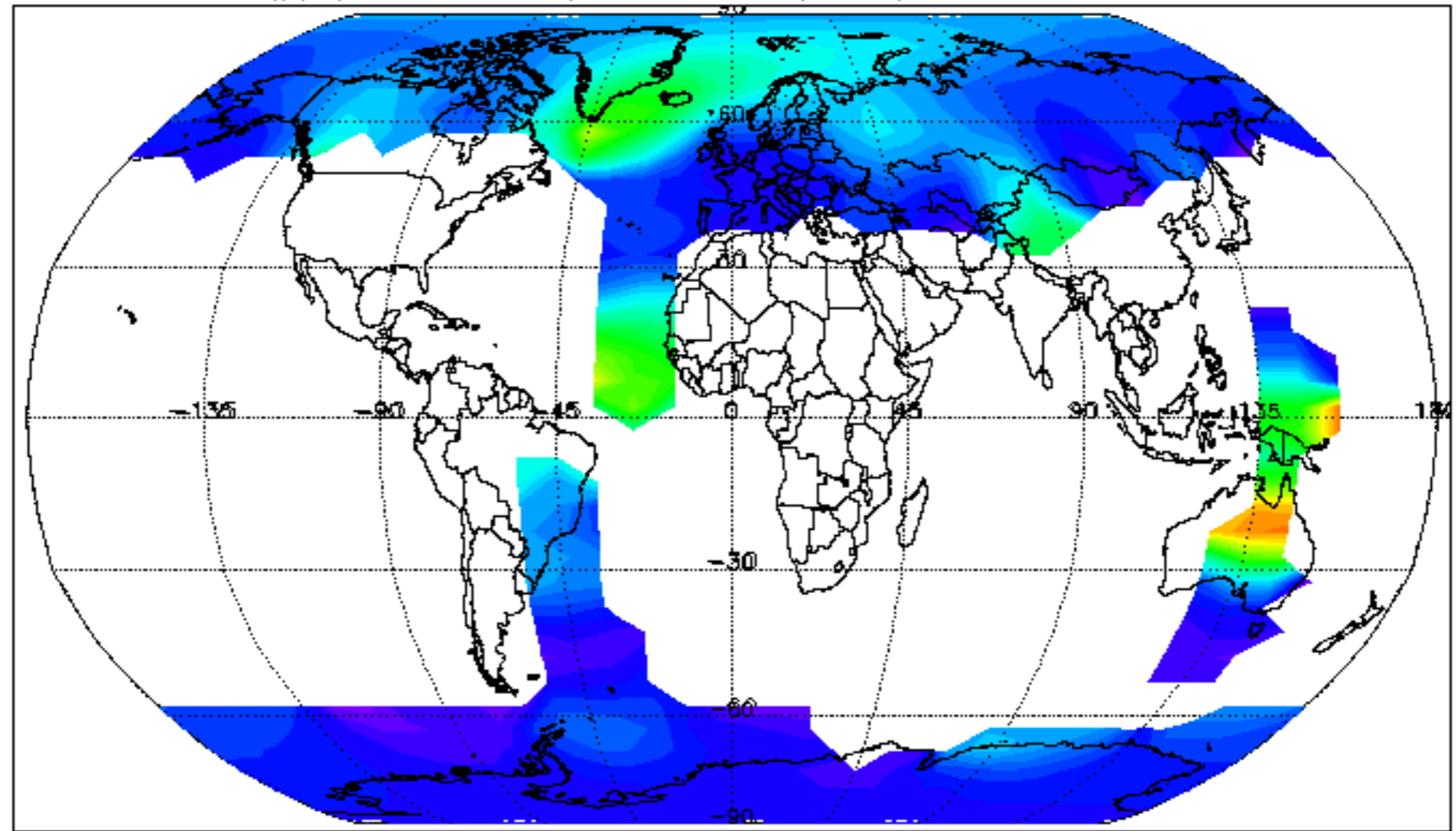




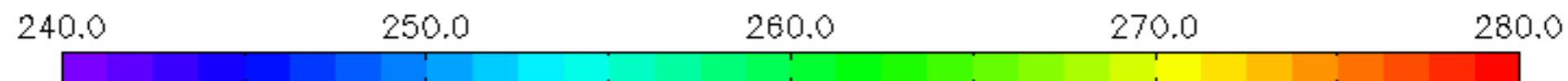
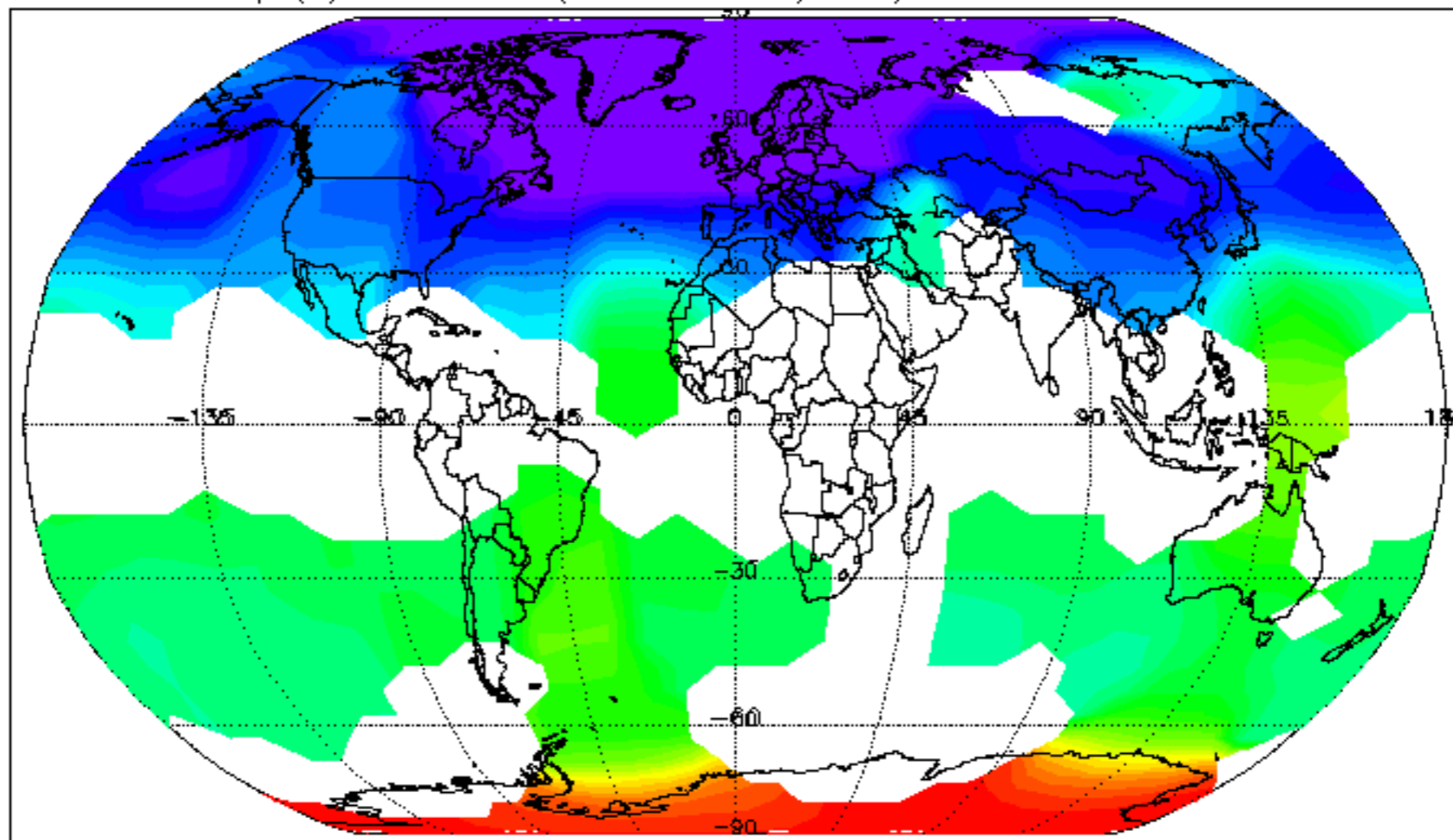
CH<sub>4</sub> (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 31-OCT-2011



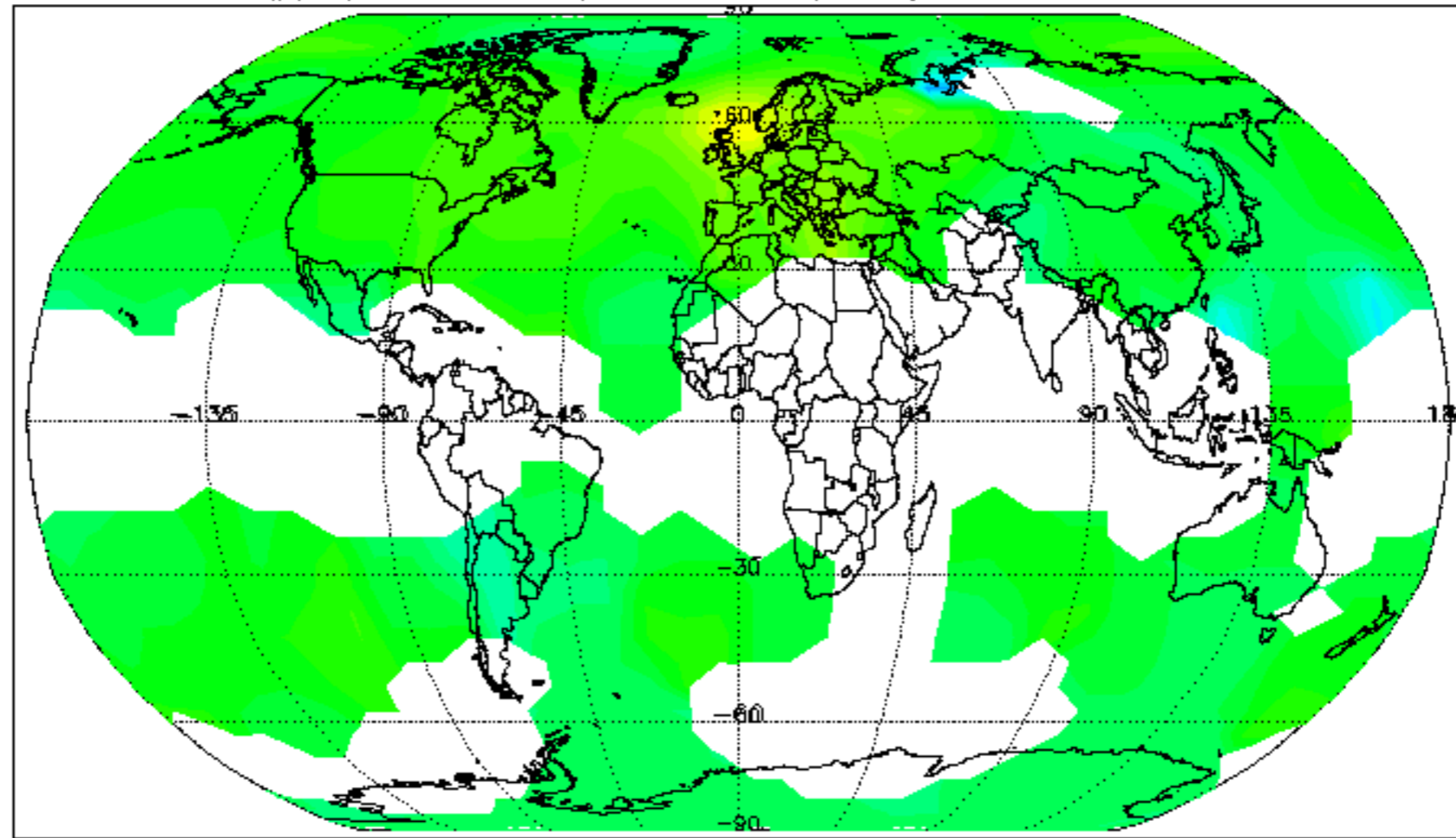
N2O (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 31-OCT-2011



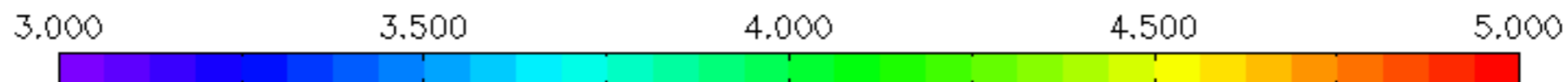
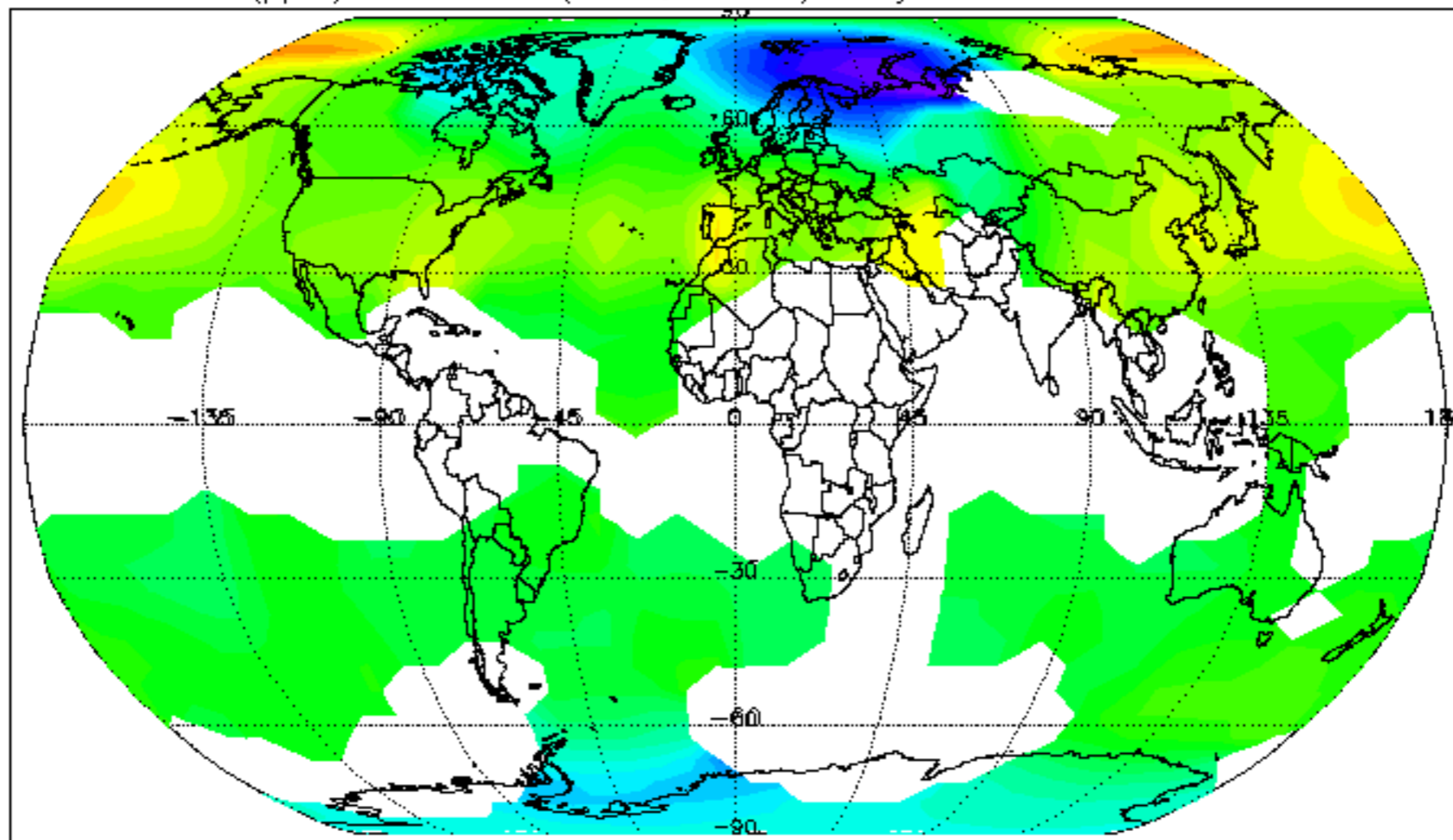
Temp (K) at: 1700 K (45km, 1.5hPa). Daily mean: 31-OCT-2011



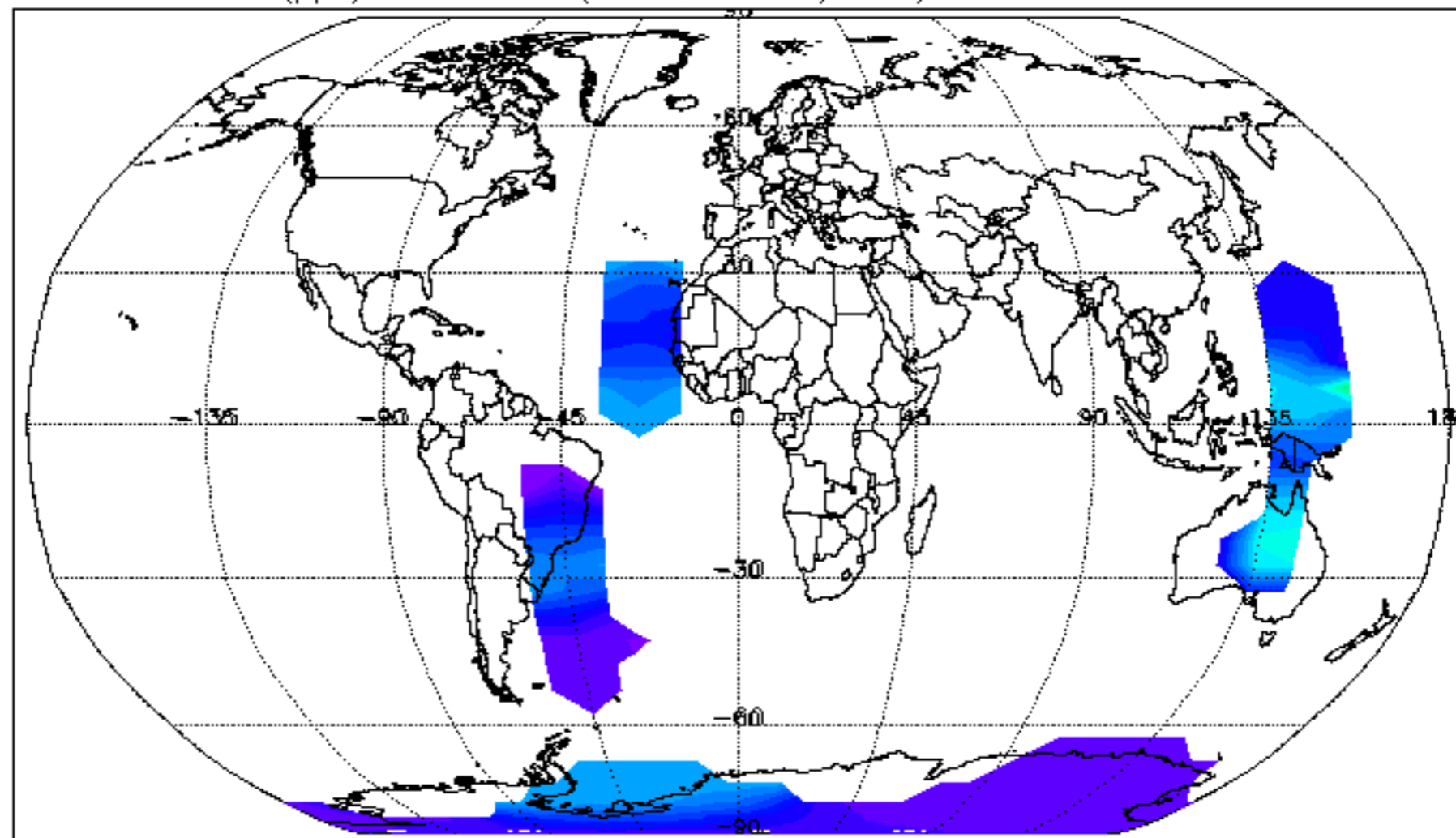
H<sub>2</sub>O (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 31-OCT-2011



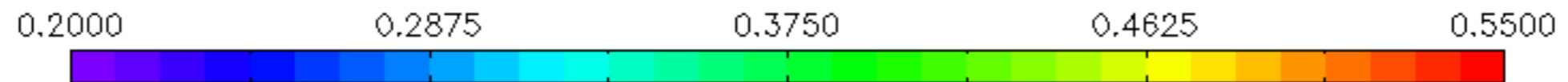
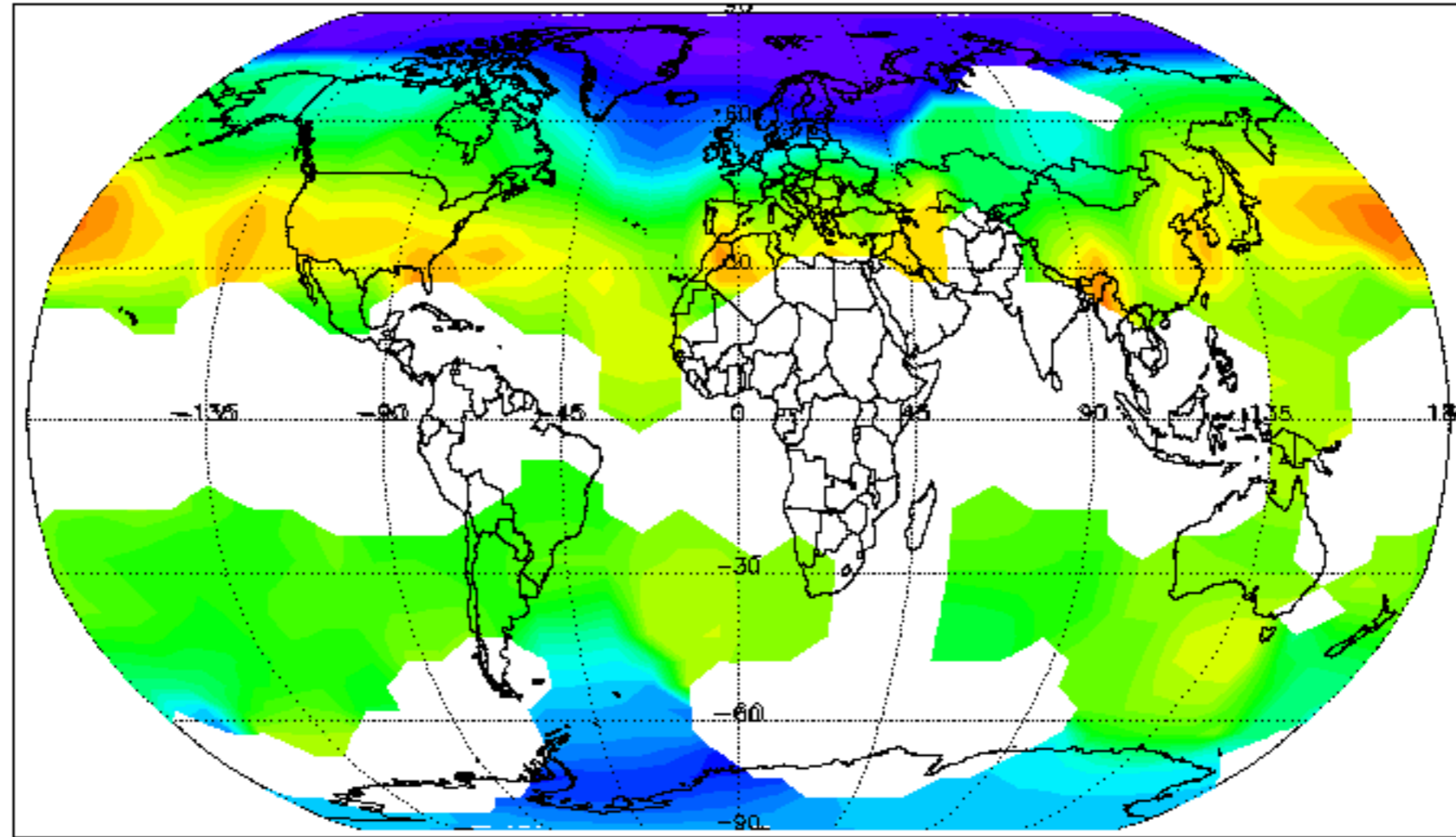
O<sub>3</sub> (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 31-OCT-2011



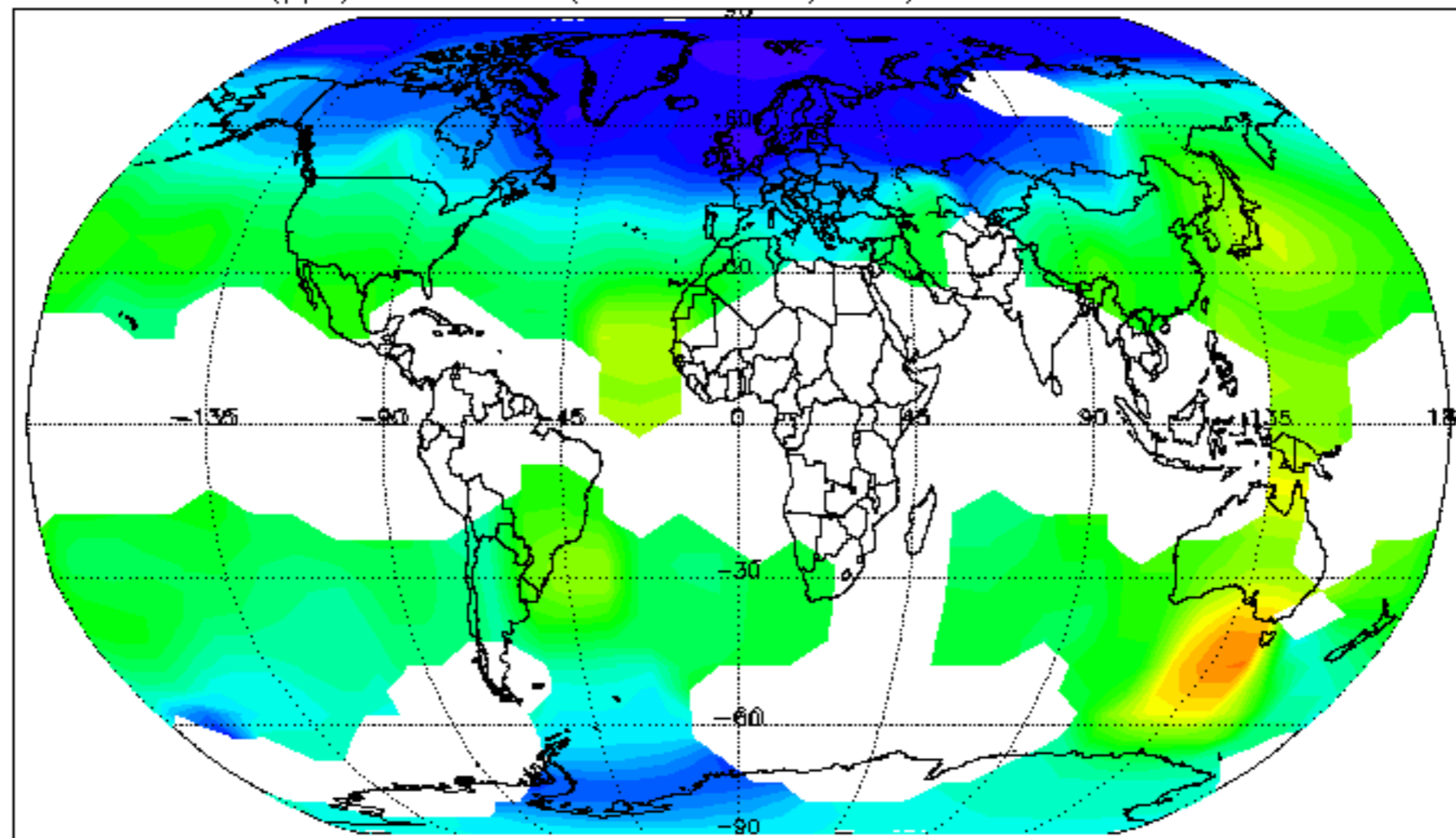
HNO<sub>3</sub> (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 31-OCT-2011



CH<sub>4</sub> (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 31-OCT-2011

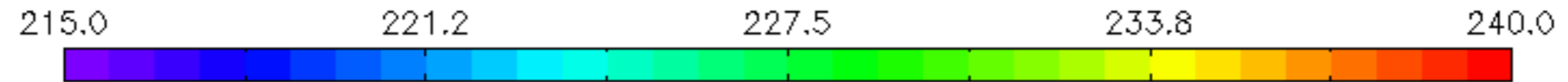
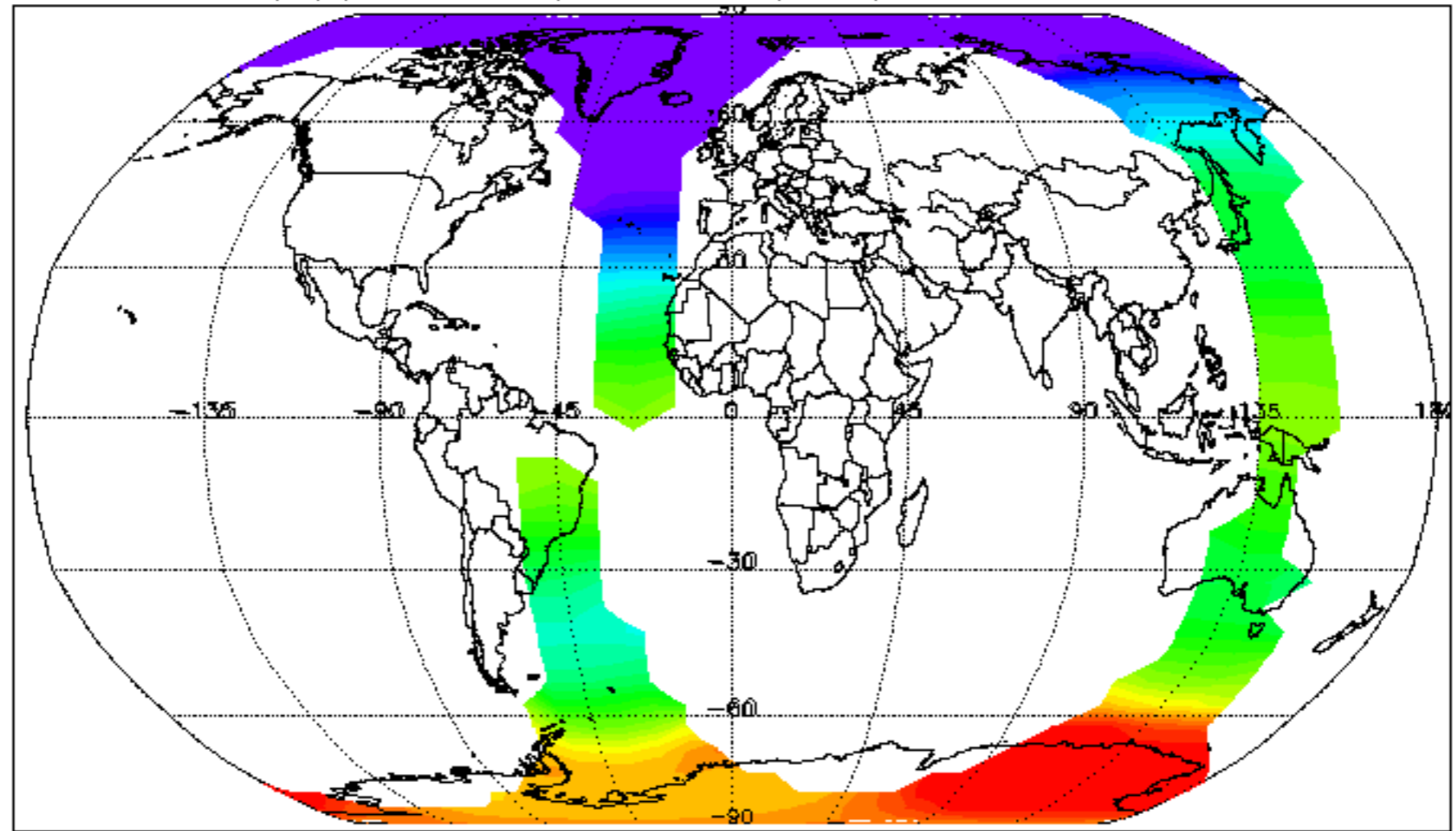


N2O (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 31-OCT-2011

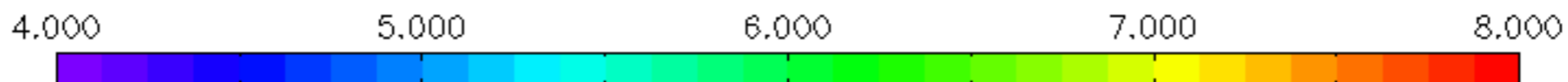
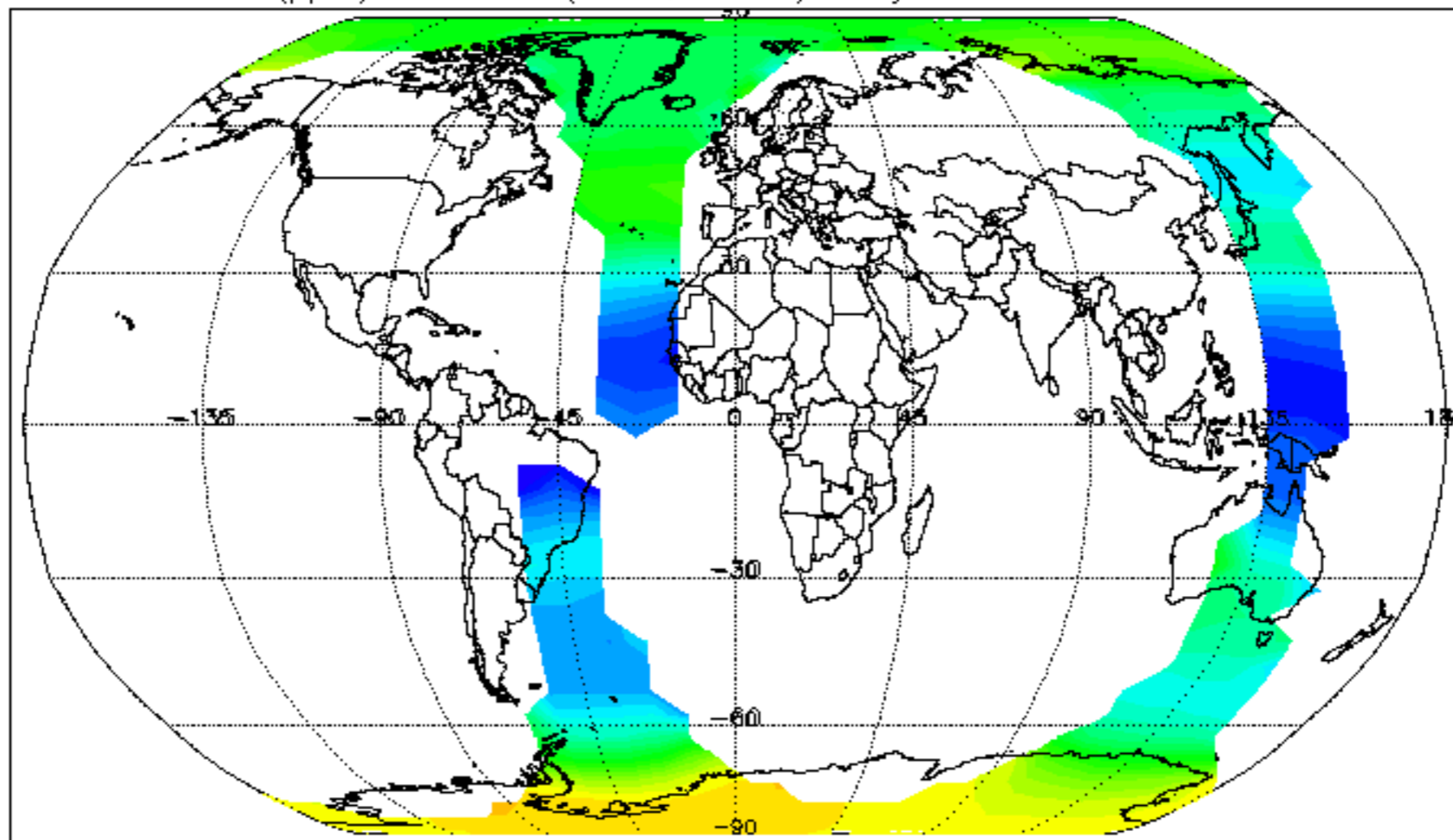




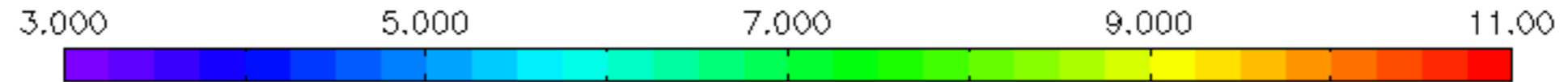
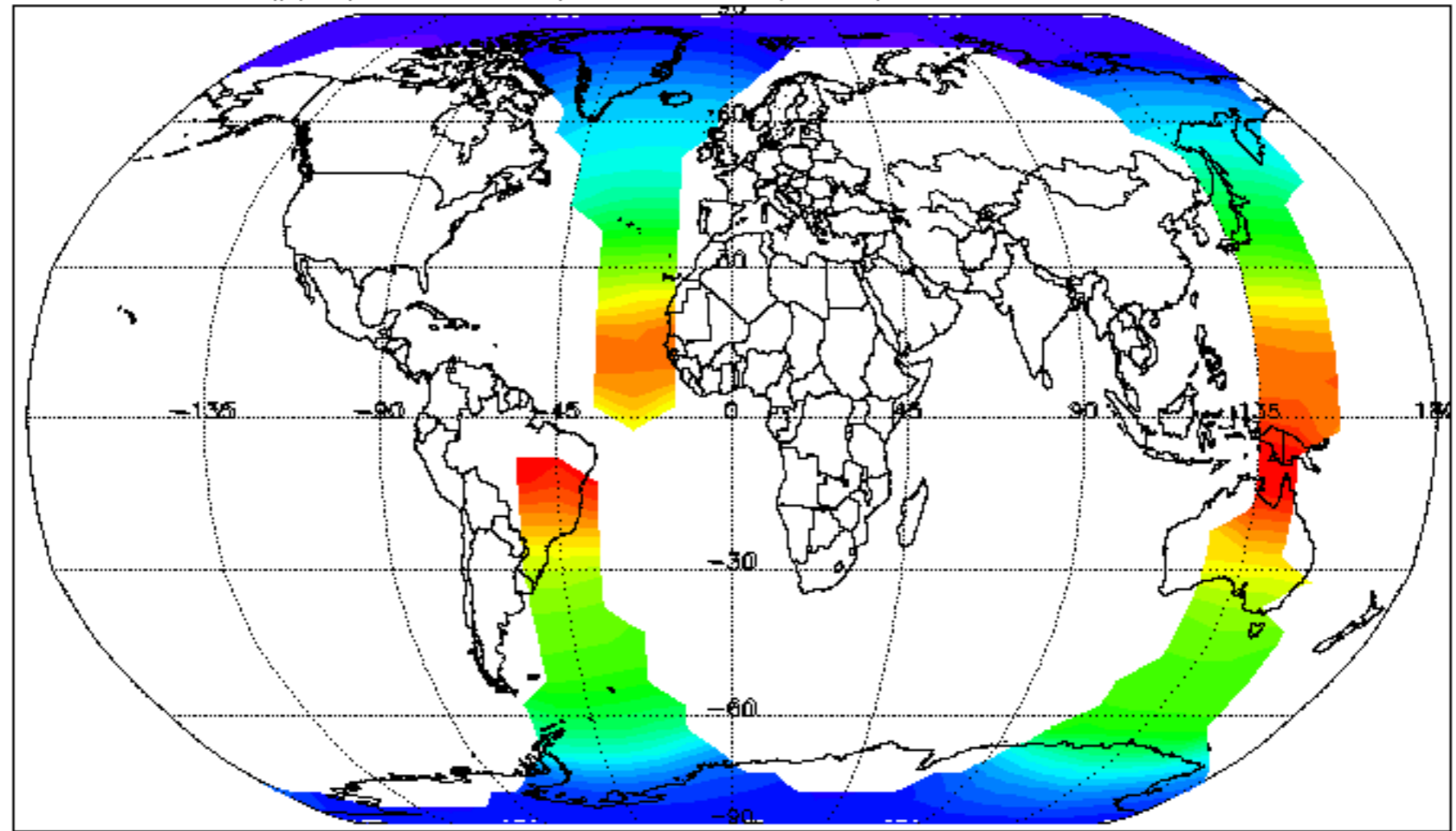
Temp (K) at: 850 K (32km, 10hPa). Daily mean: 31-OCT-2011



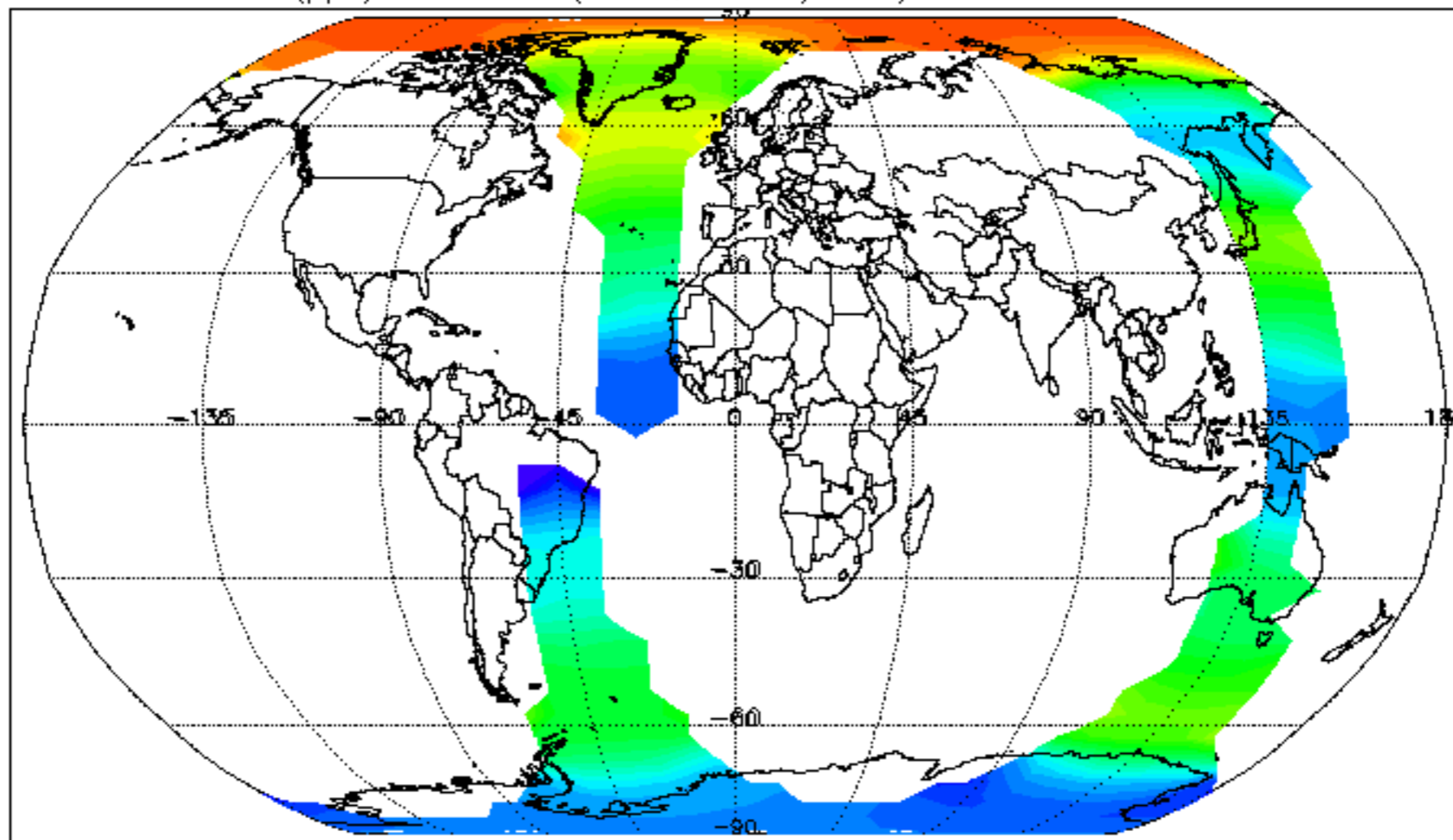
H<sub>2</sub>O (ppm) at: 850 K (32km, 10hPa). Daily mean: 31-OCT-2011



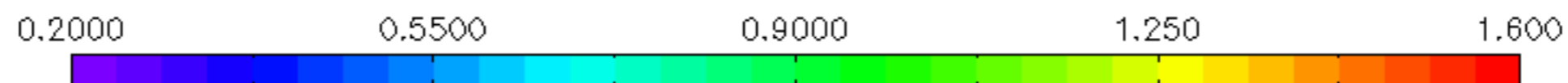
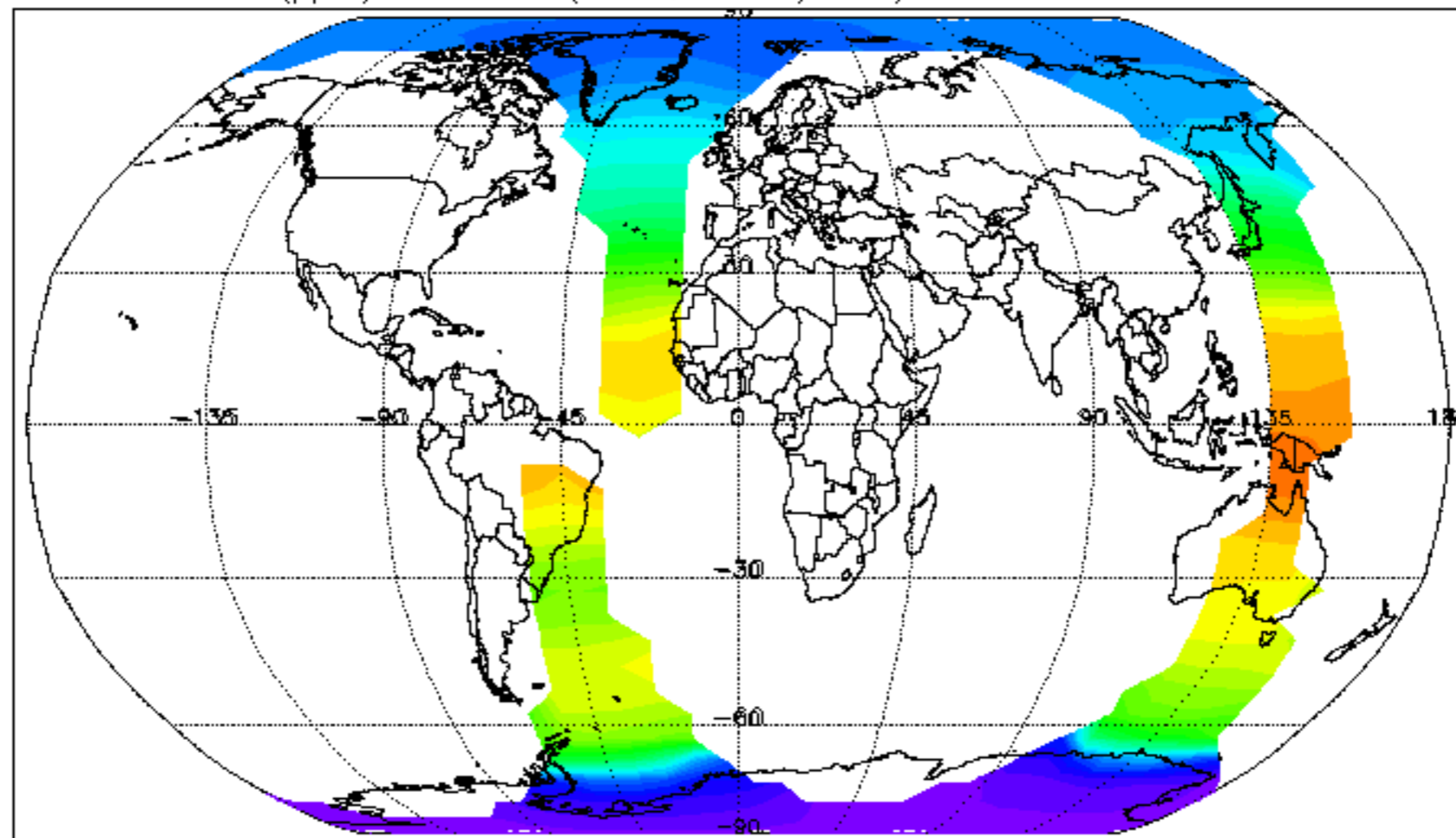
O3 (ppm) at: 850 K (32km, 10hPa). Daily mean: 31-OCT-2011



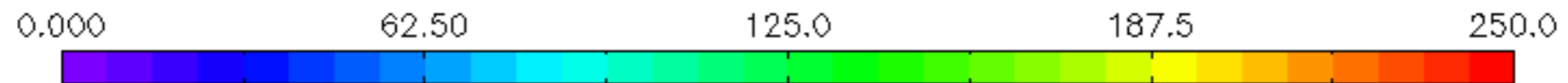
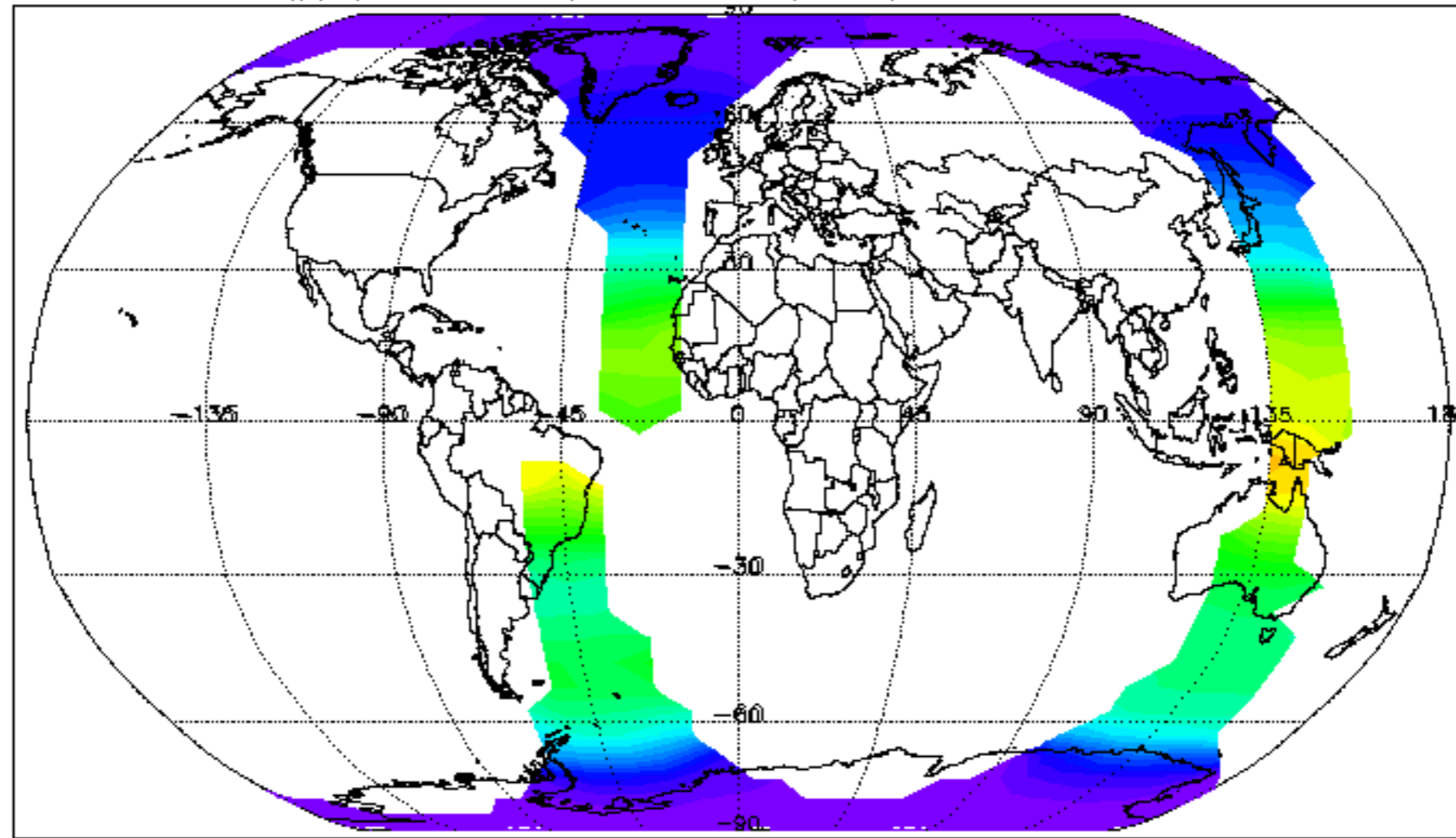
HNO<sub>3</sub> (ppb) at: 850 K (32km, 10hPa). Daily mean: 31-OCT-2011



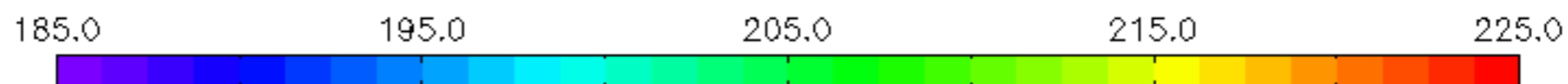
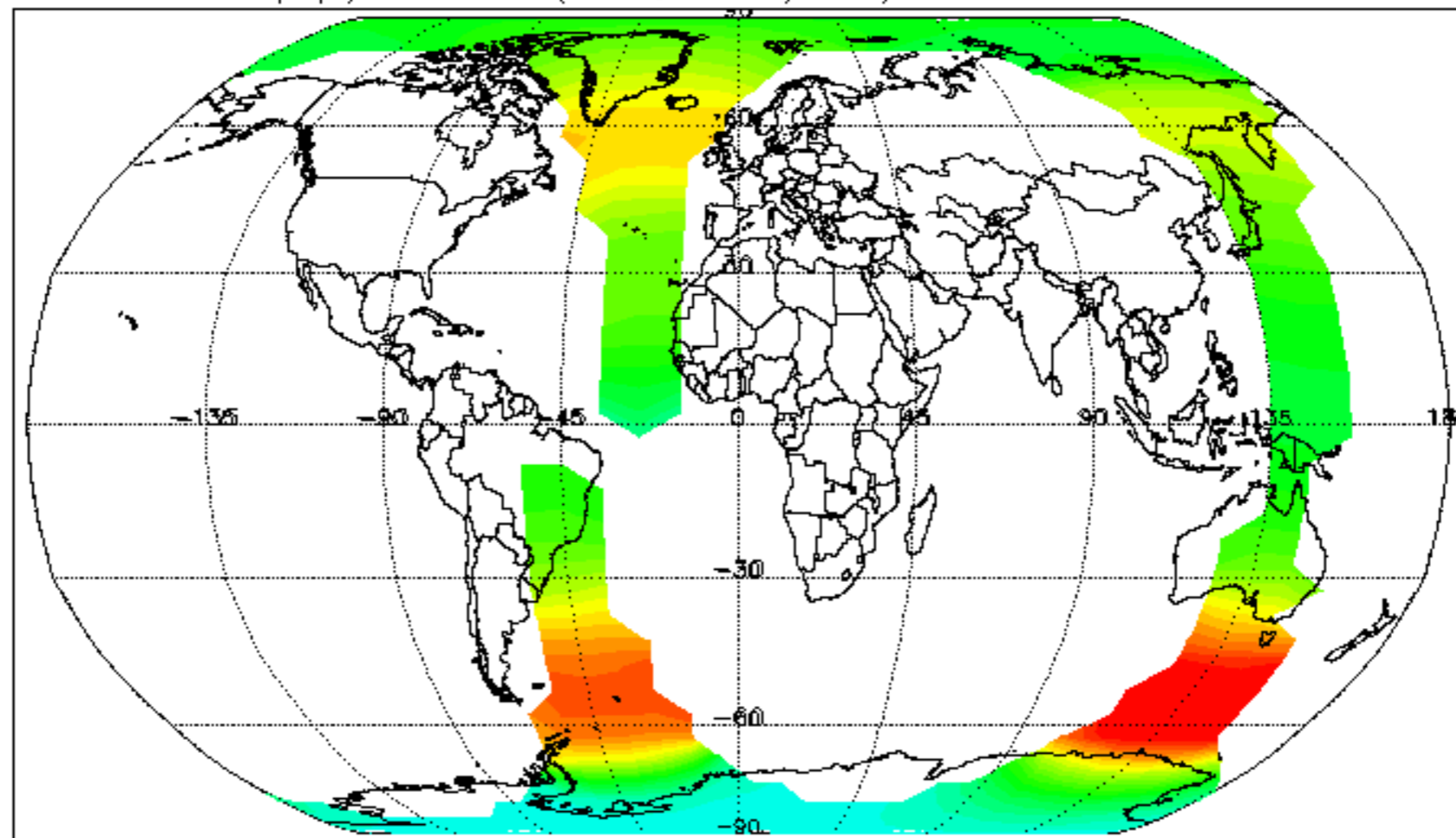
CH<sub>4</sub> (ppm) at: 850 K (32km, 10hPa). Daily mean: 31-OCT-2011



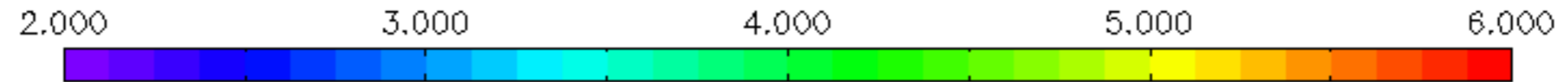
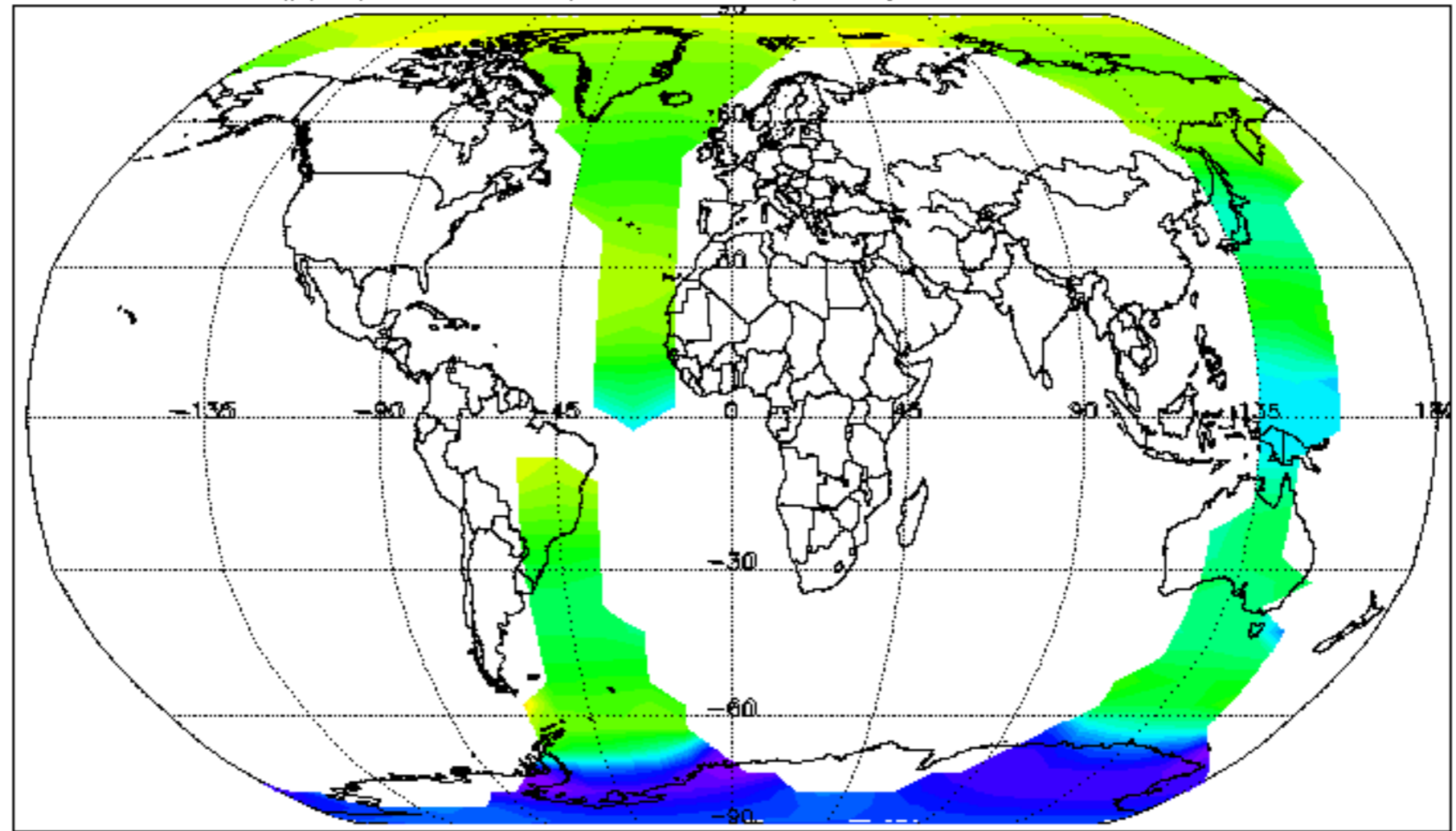
N<sub>2</sub>O (ppb) at: 850 K (32km, 10hPa). Daily mean: 31-OCT-2011



Temp (K) at: 490 K (19km, 55hPa). Daily mean: 31-OCT-2011

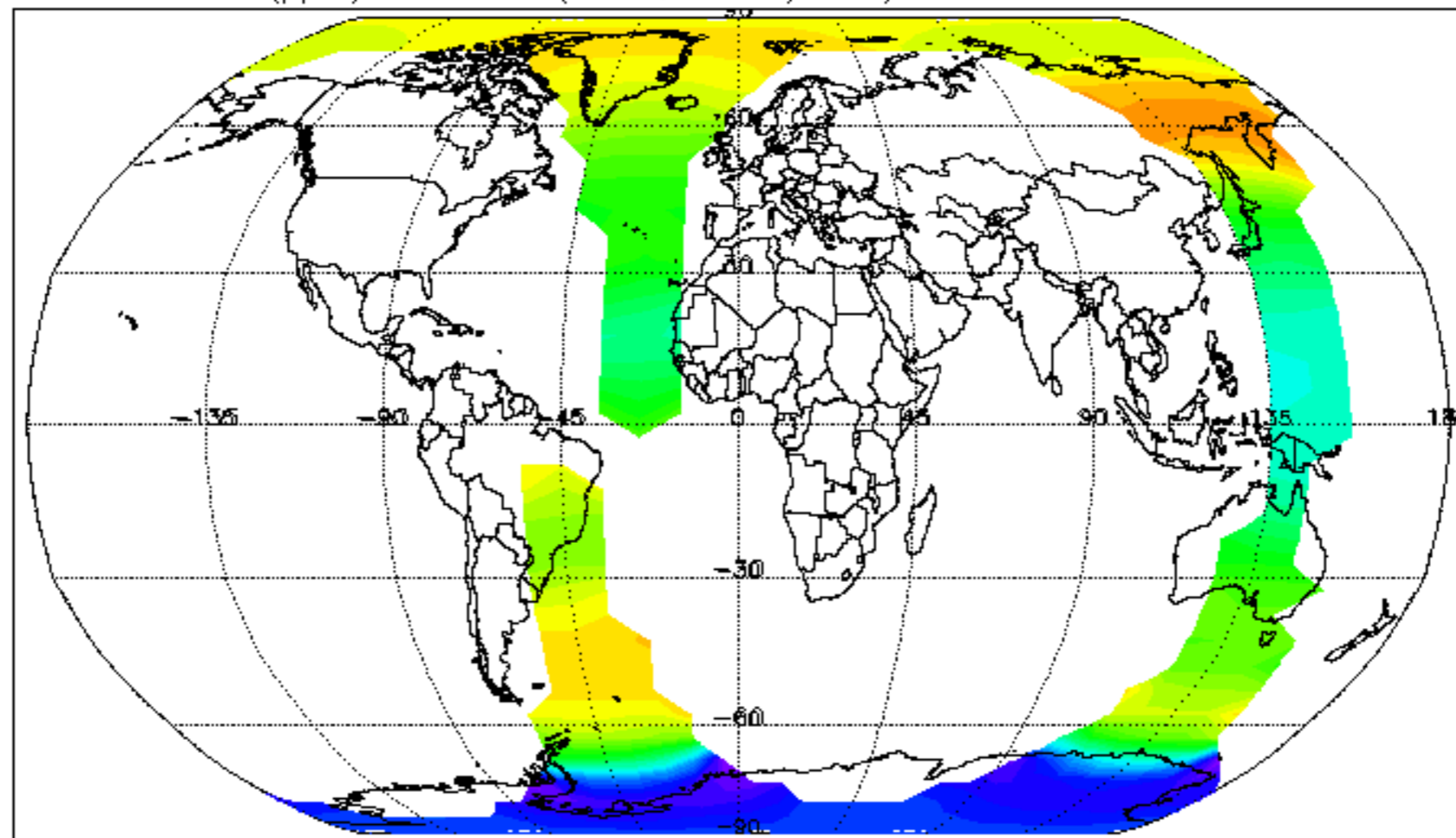


H<sub>2</sub>O (ppm) at: 490 K (19km, 55hPa). Daily mean: 31-OCT-2011

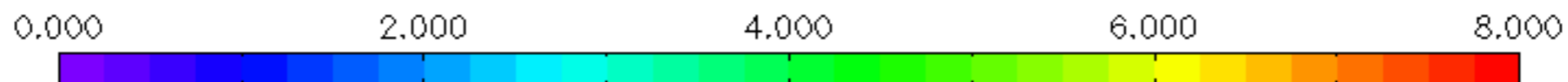
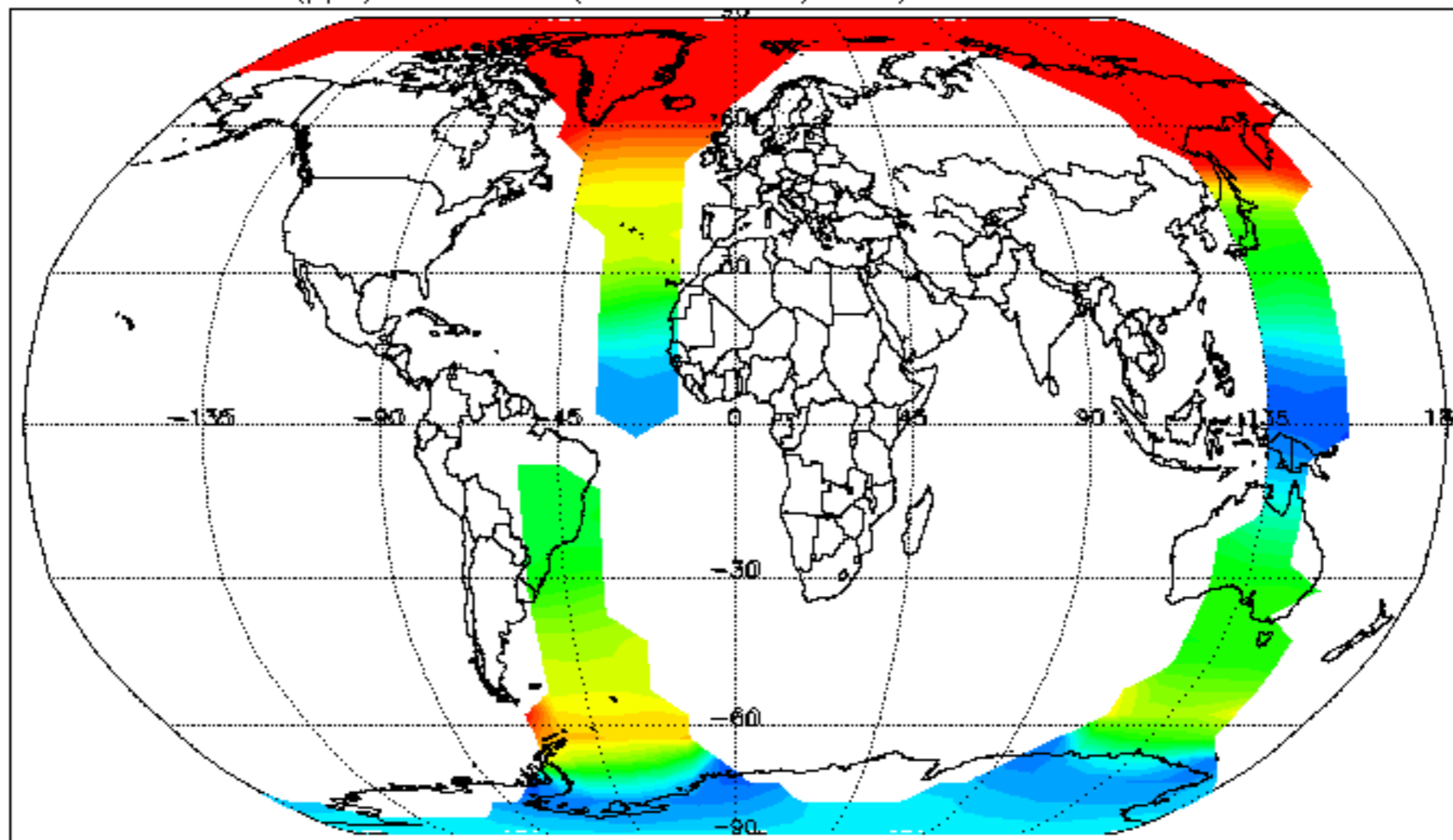




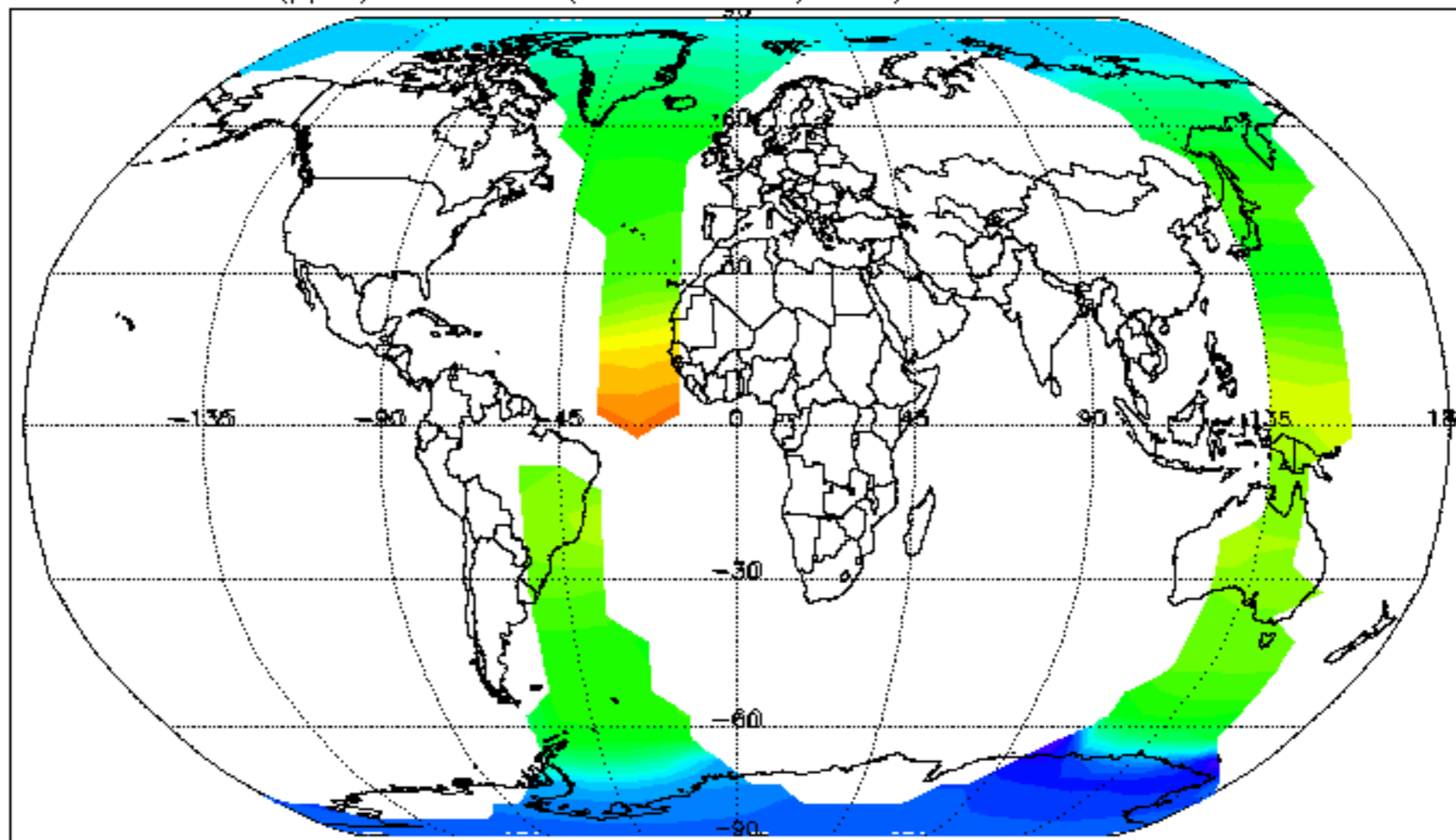
O<sub>3</sub> (ppm) at: 490 K (19km, 55hPa). Daily mean: 31-OCT-2011



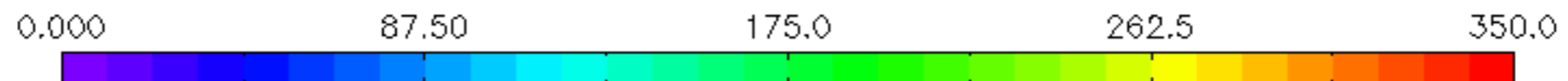
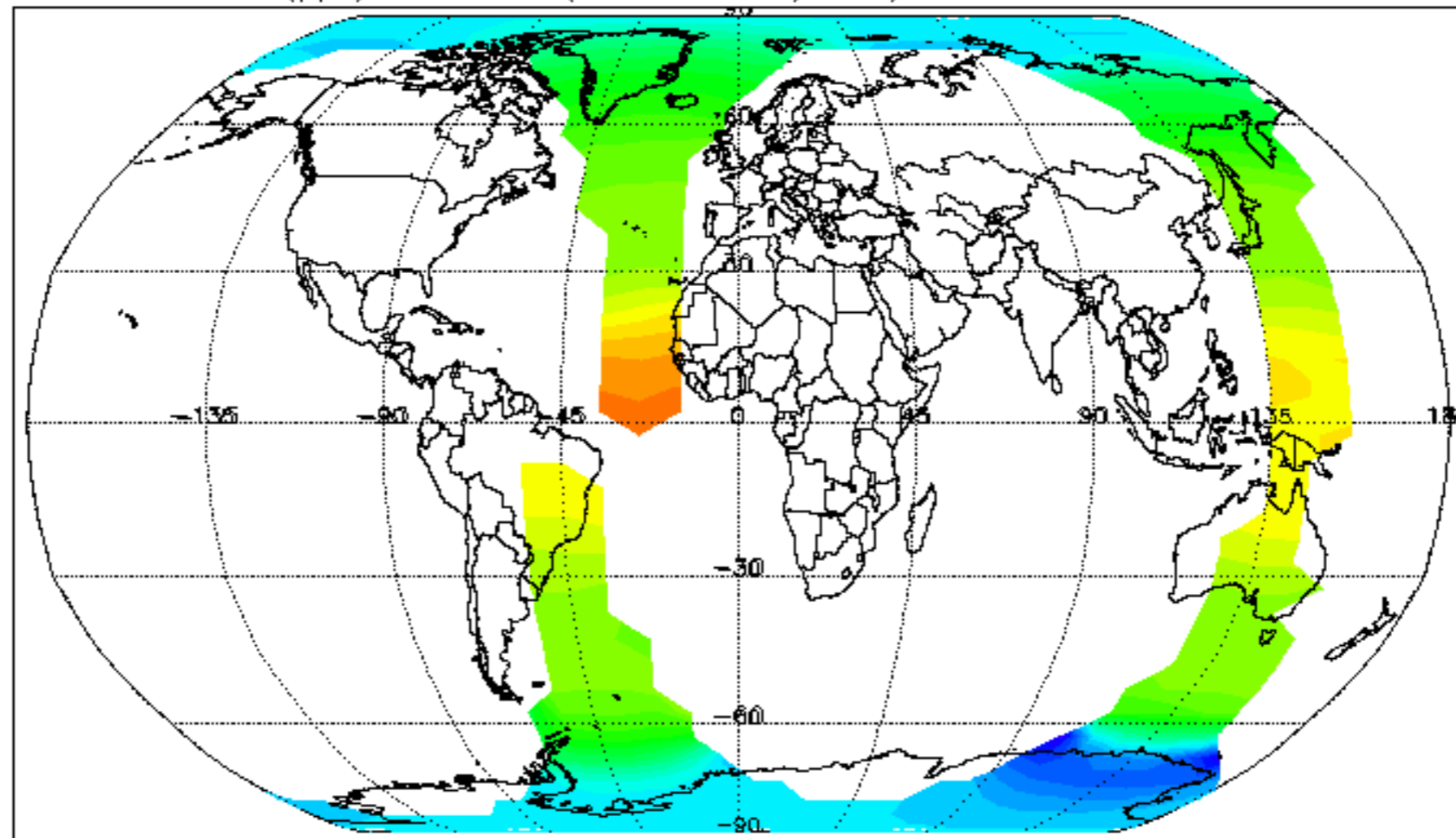
HNO<sub>3</sub> (ppb) at: 490 K (19km, 55hPa). Daily mean: 31-OCT-2011



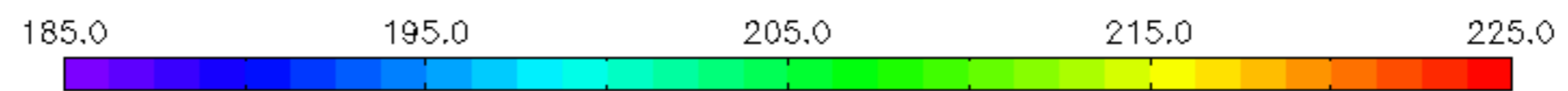
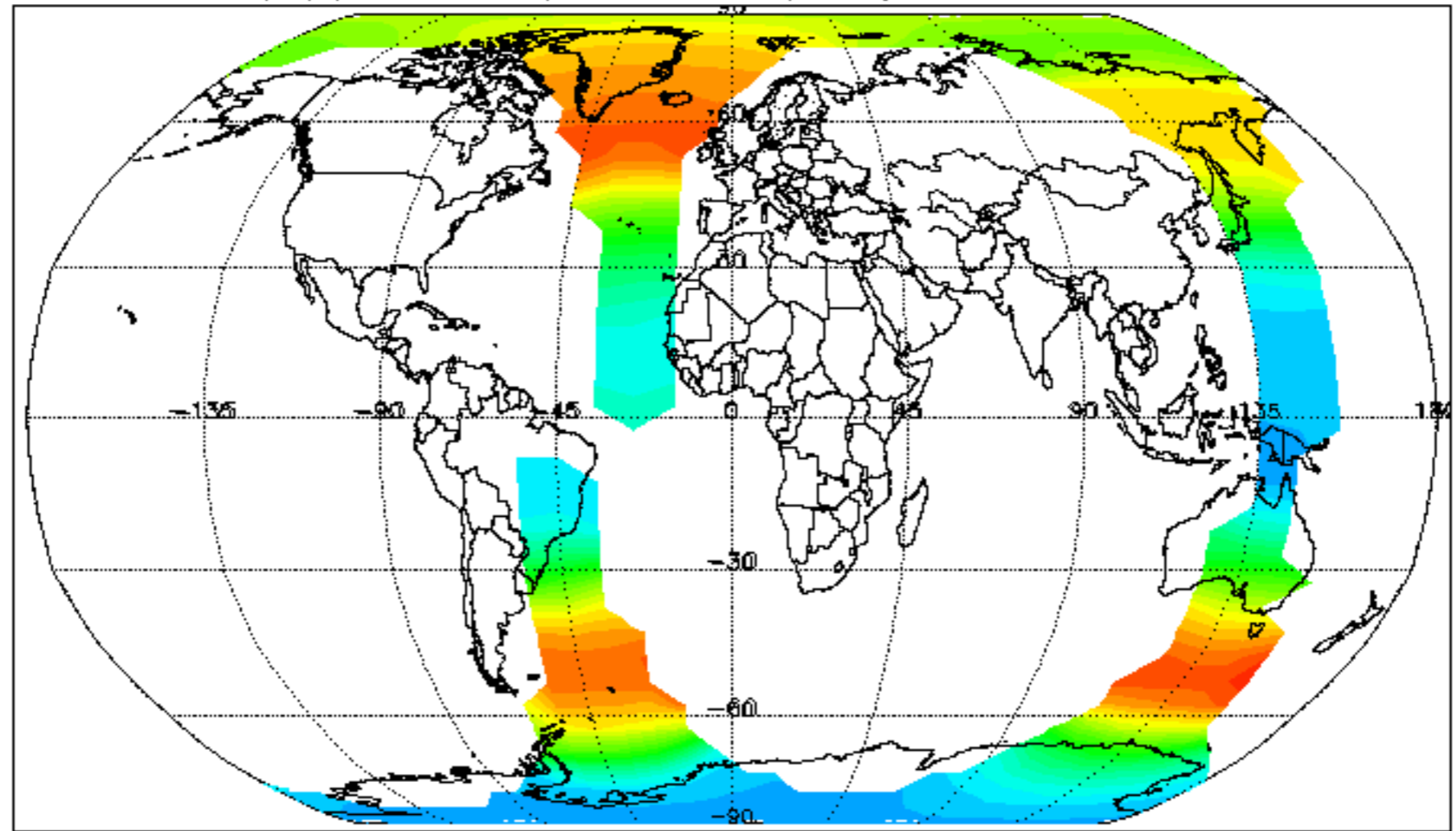
CH<sub>4</sub> (ppm) at: 490 K (19km, 55hPa). Daily mean: 31-OCT-2011



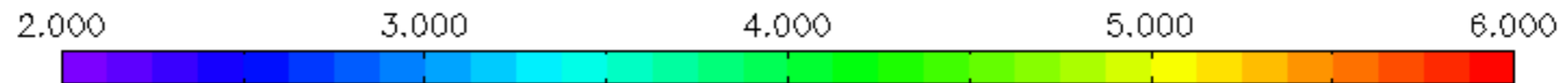
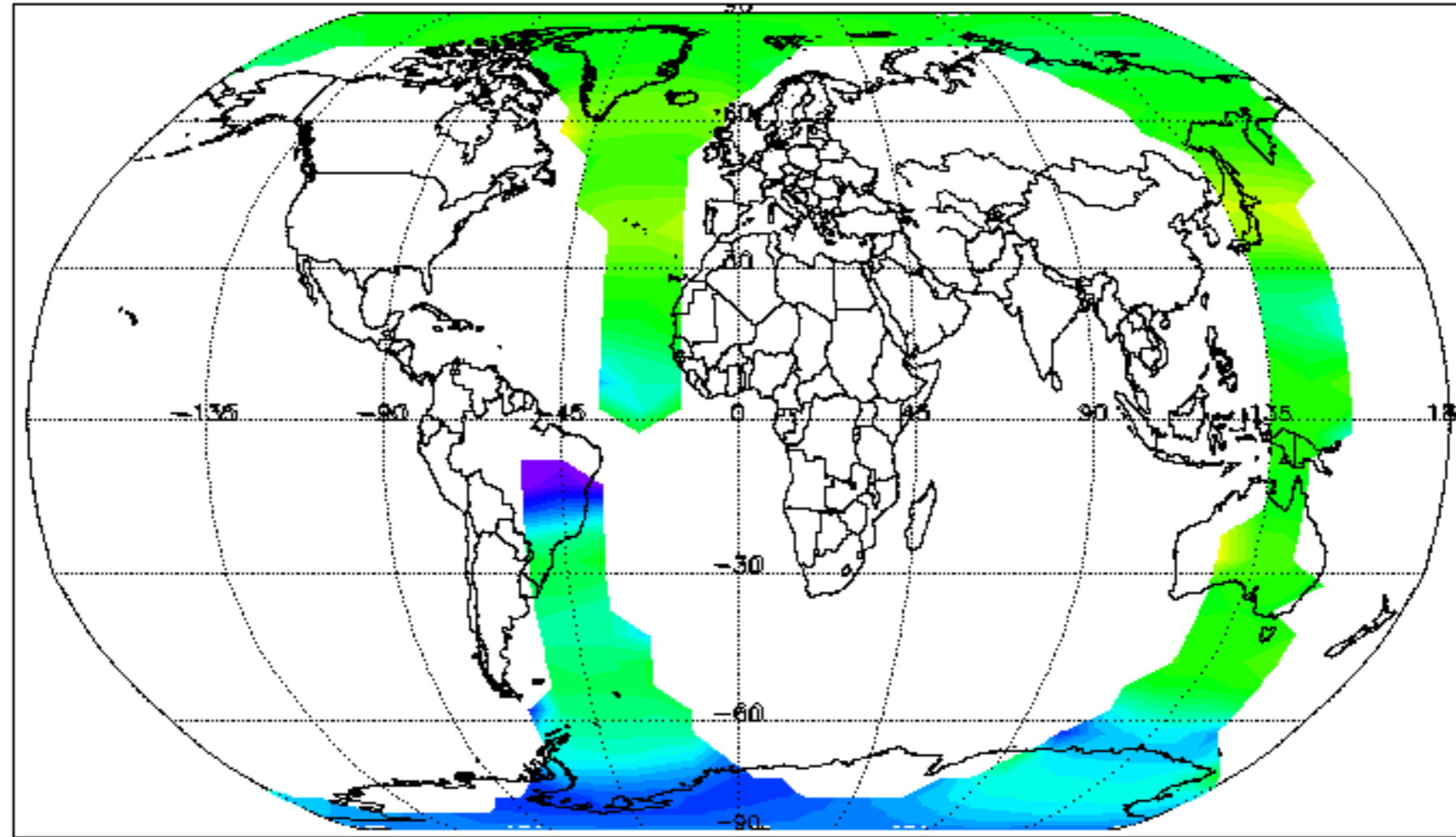
N2O (ppb) at: 490 K (19km, 55hPa). Daily mean: 31-OCT-2011



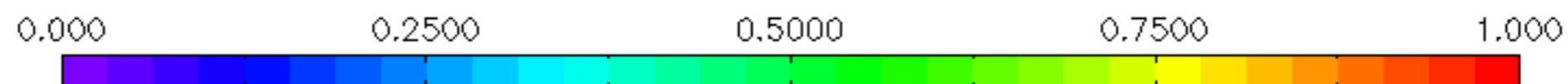
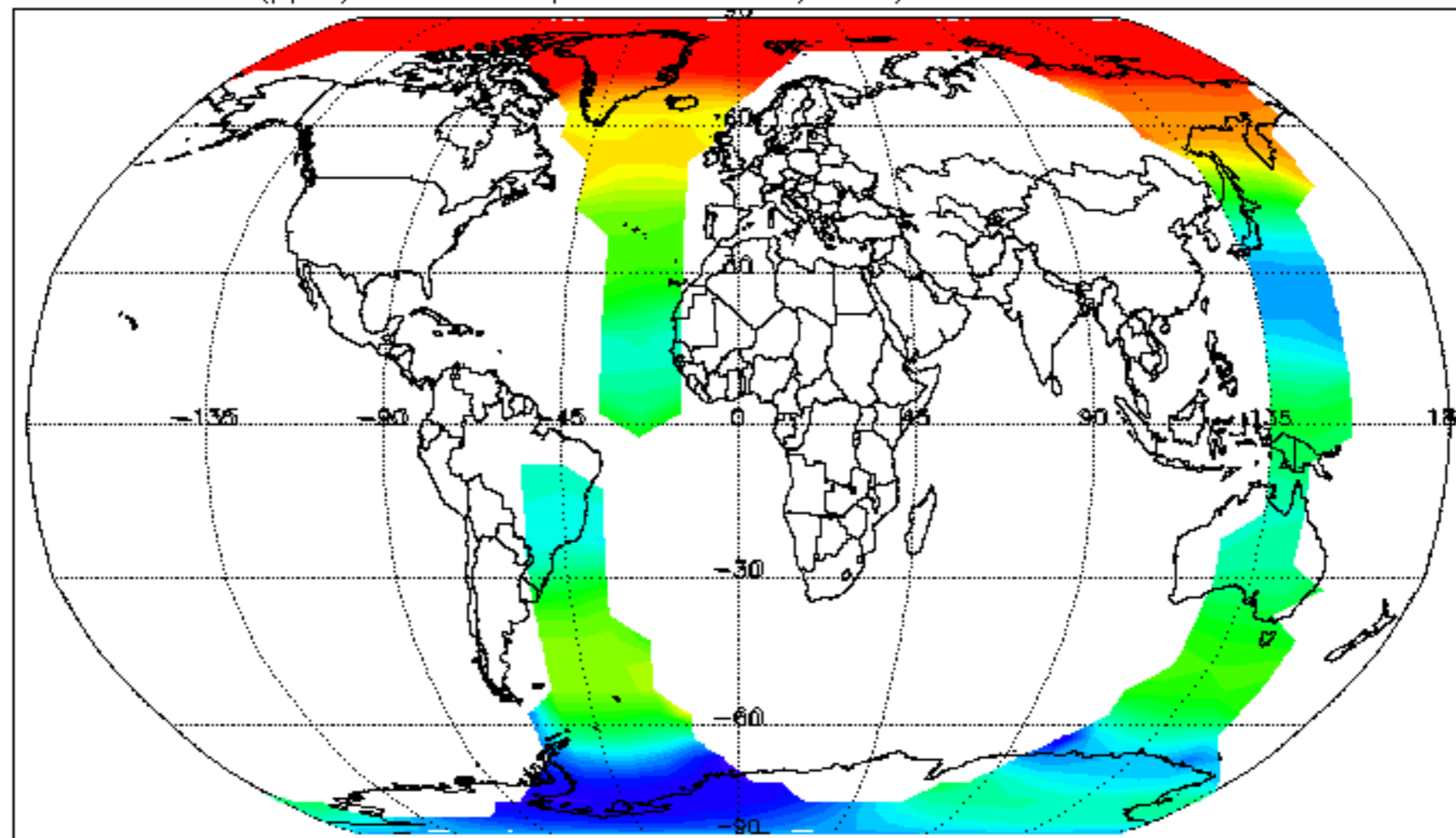
Temp (K) at: 410 K (16km, 100hPa). Daily mean: 31-OCT-2011



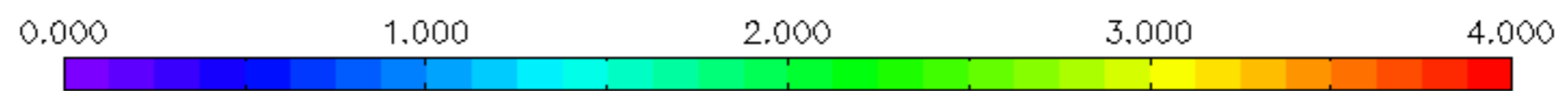
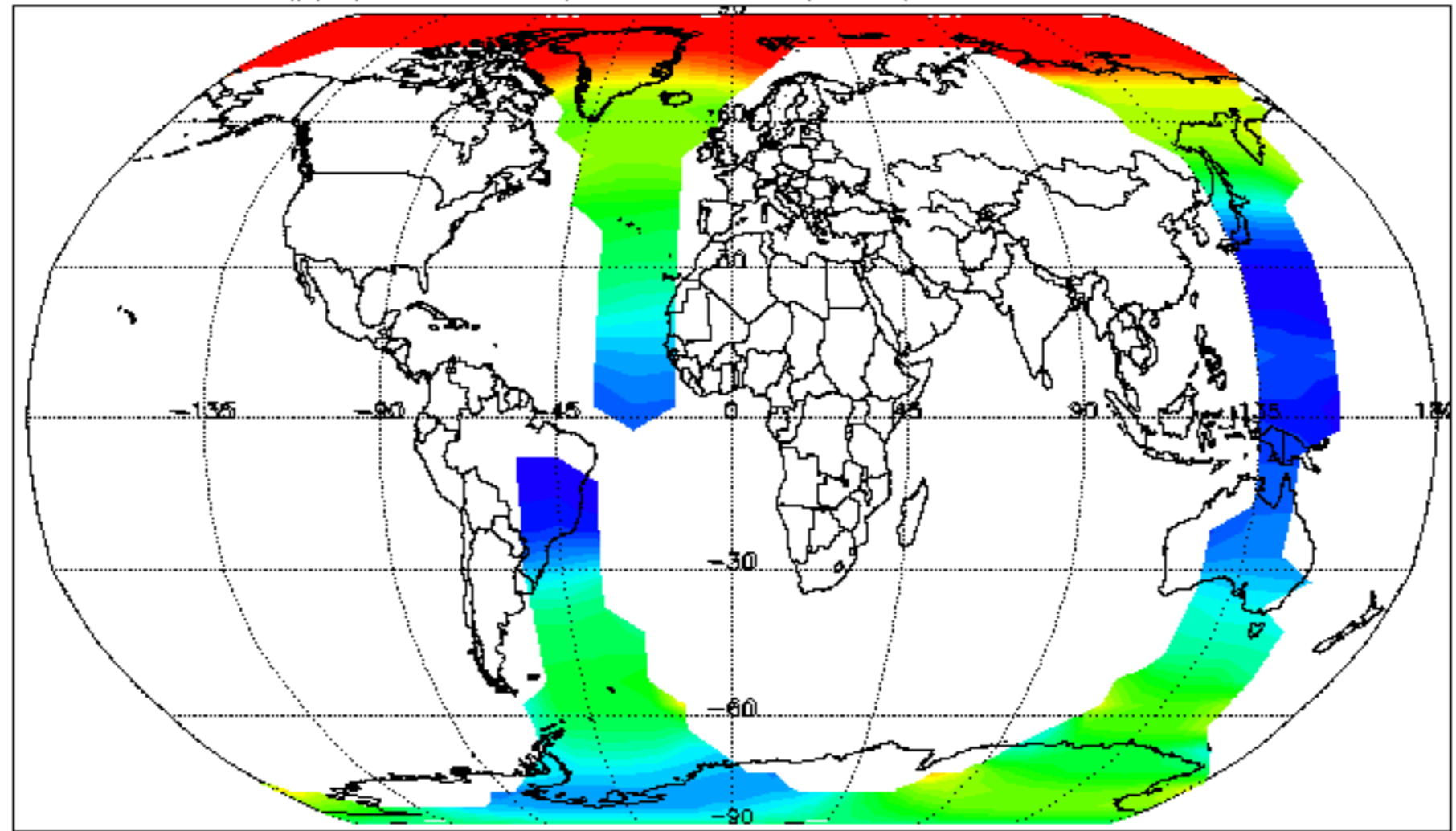
H<sub>2</sub>O (ppm) at: 410 K (16km, 100hPa). Daily mean: 31-OCT-2011



O3 (ppm) at: 410 K (16km, 100hPa). Daily mean: 31-OCT-2011

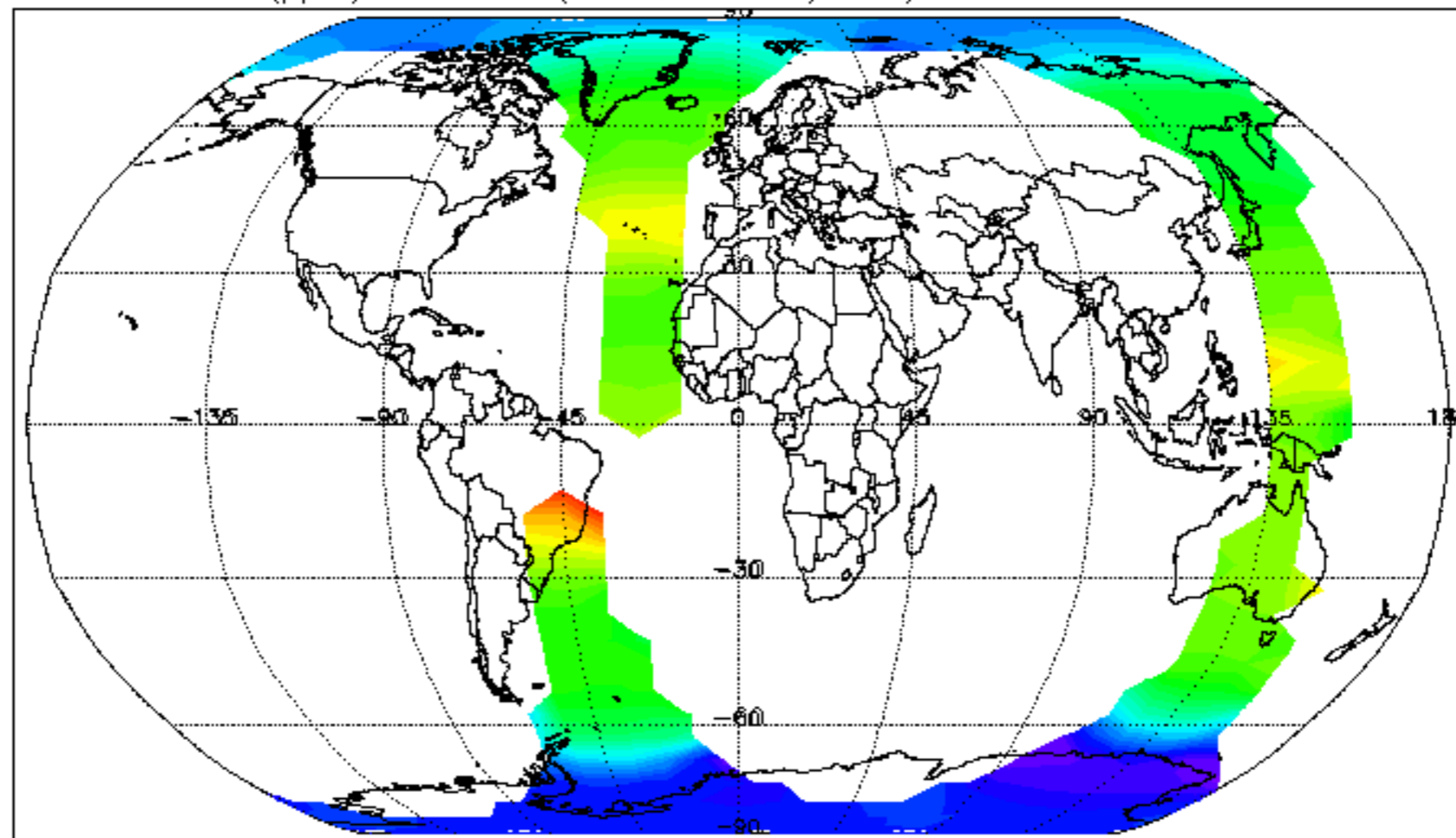


HN03 (ppb) at: 410 K (16km, 100hPa). Daily mean: 31-OCT-2011

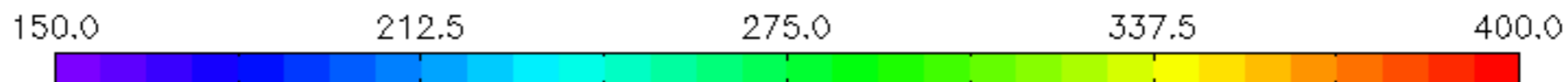
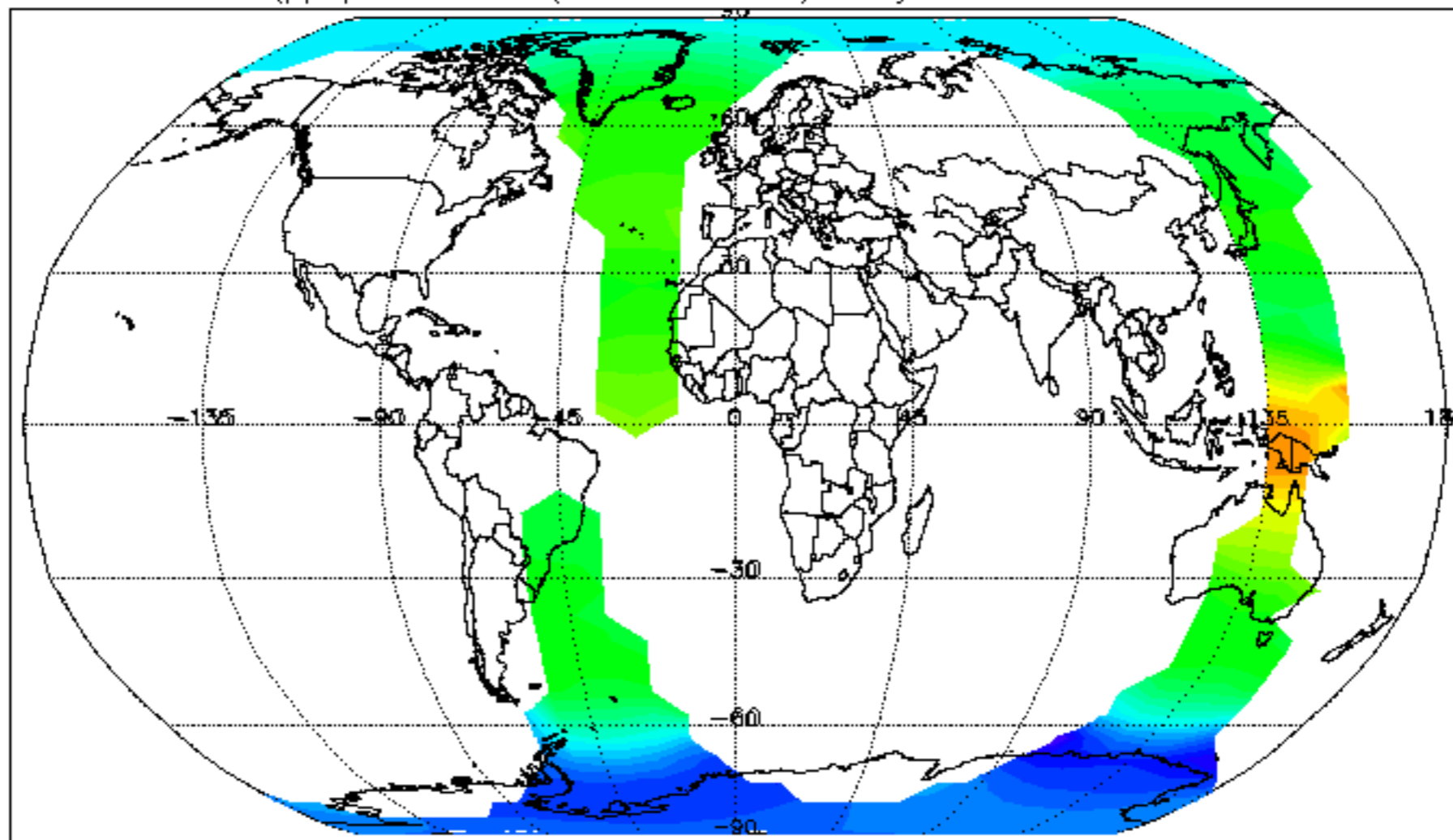




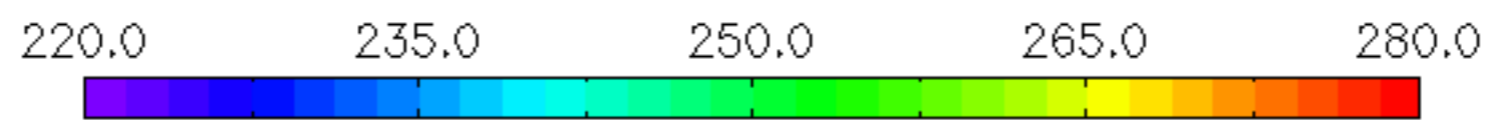
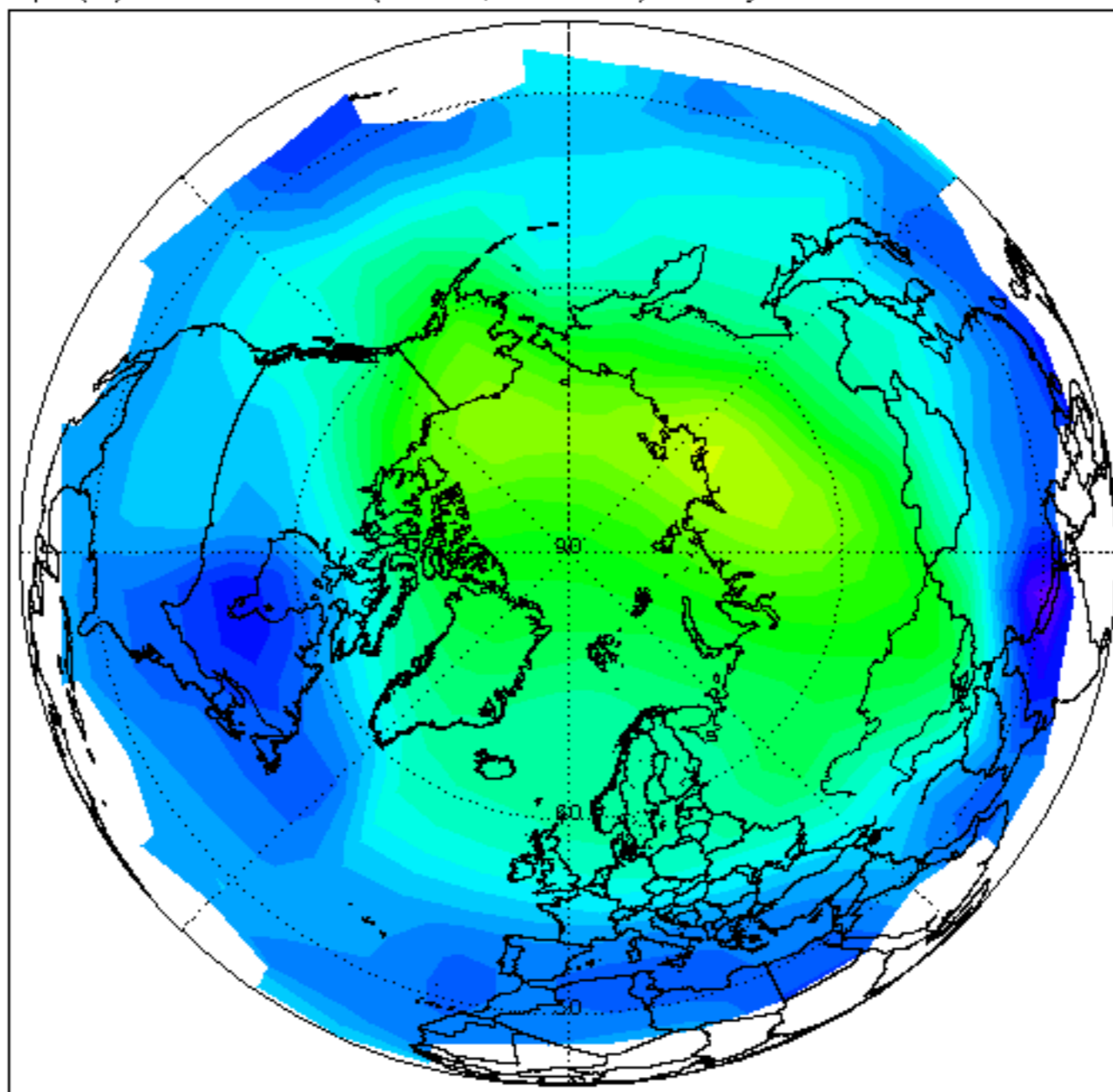
CH<sub>4</sub> (ppm) at: 410 K (16km, 100hPa). Daily mean: 31-OCT-2011



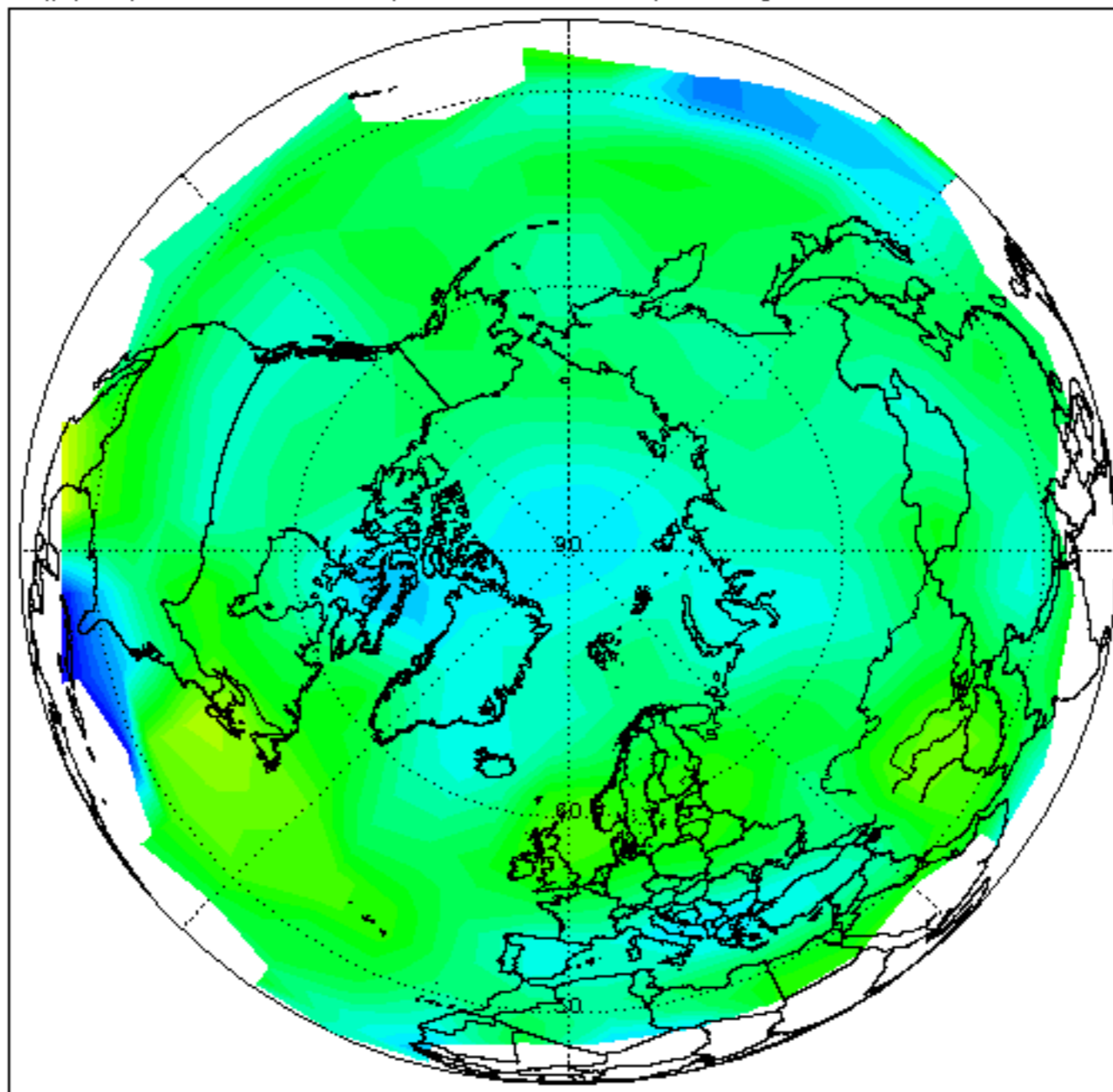
N<sub>2</sub>O (ppb) at: 410 K (16km, 100hPa). Daily mean: 31-OCT-2011



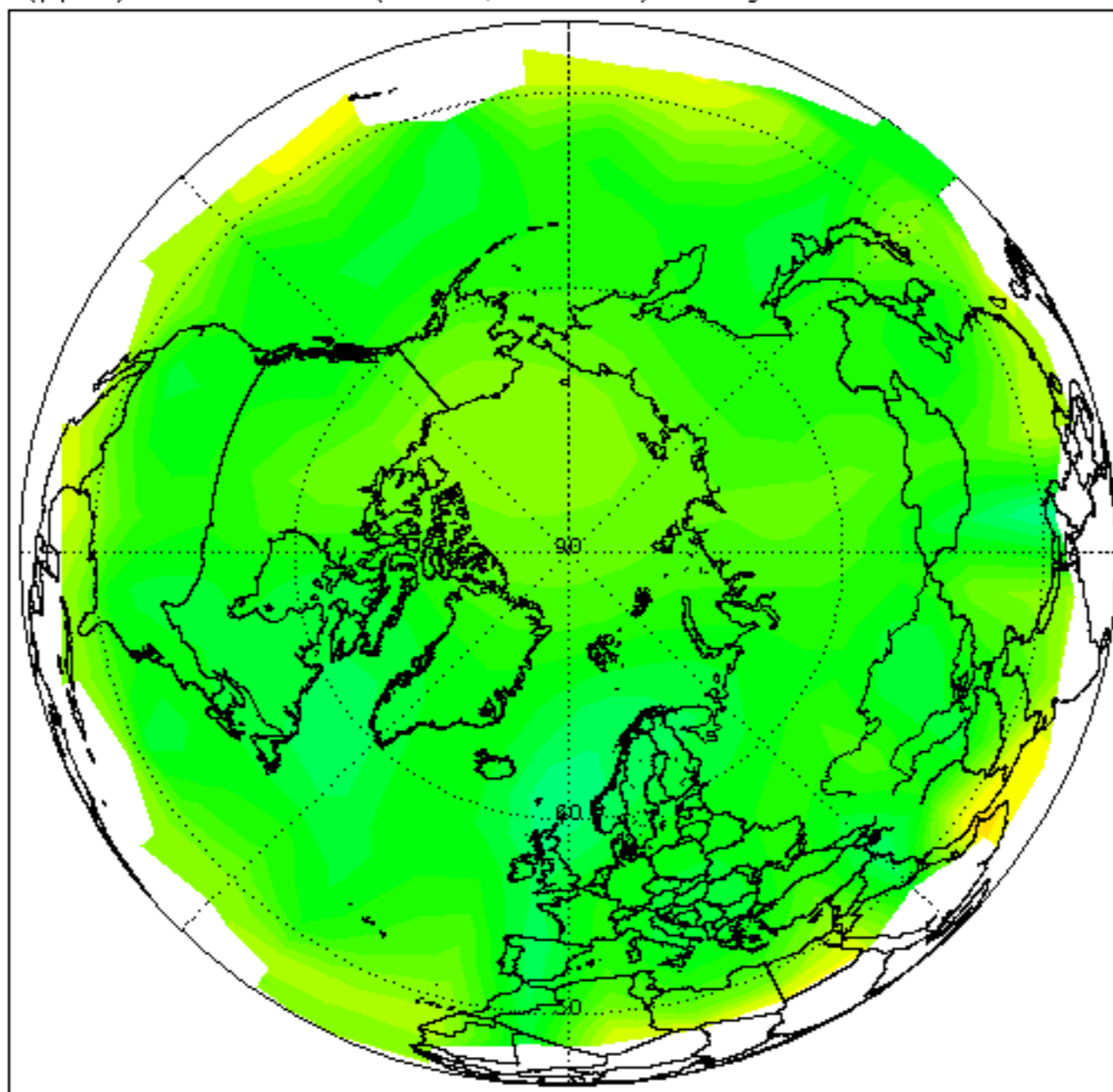
Temp (K) at: 2700 K (60km, 0.2hPa). Daily mean: 31-OCT-2011



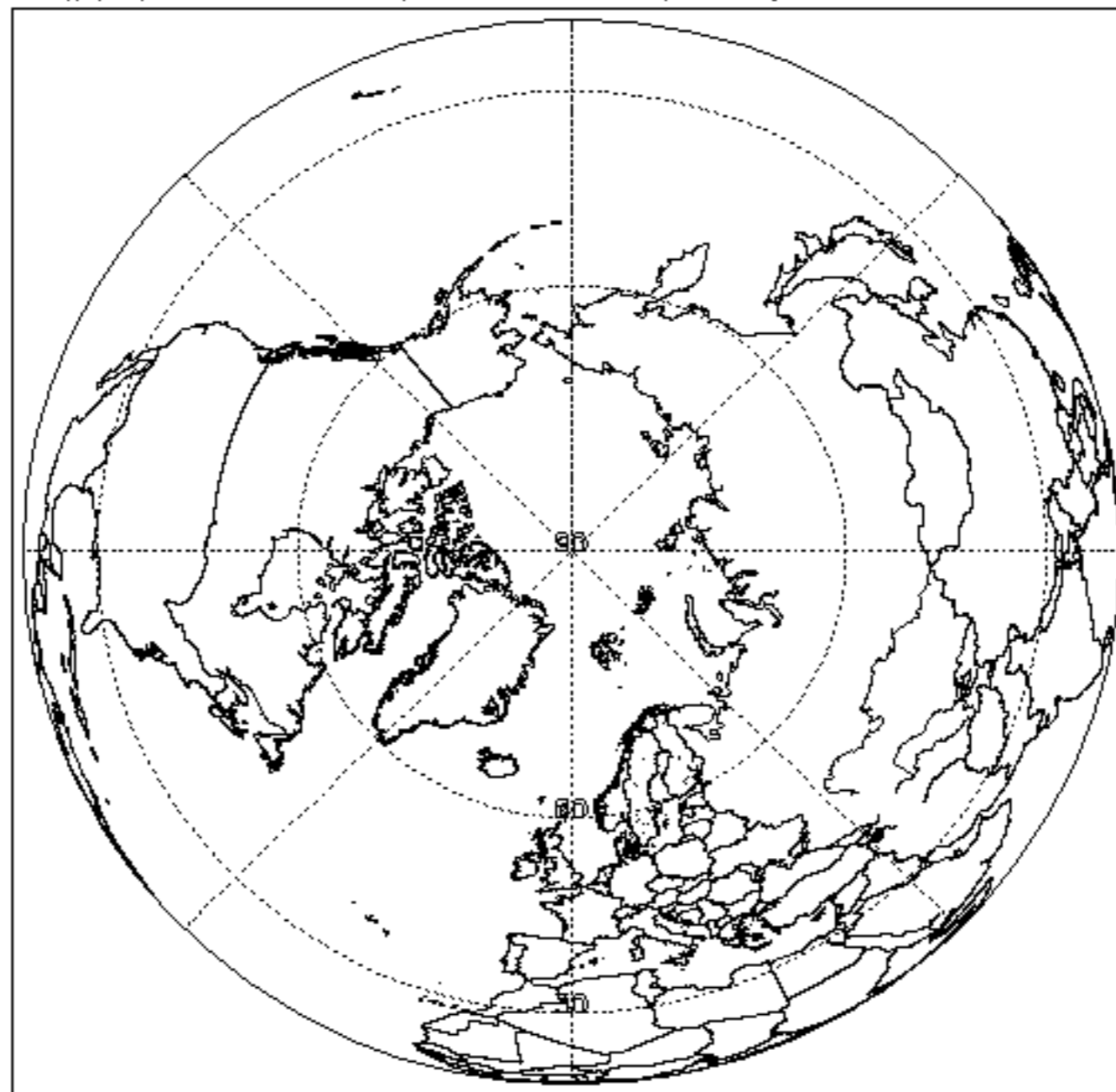
H<sub>2</sub>O (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 31-OCT-2011



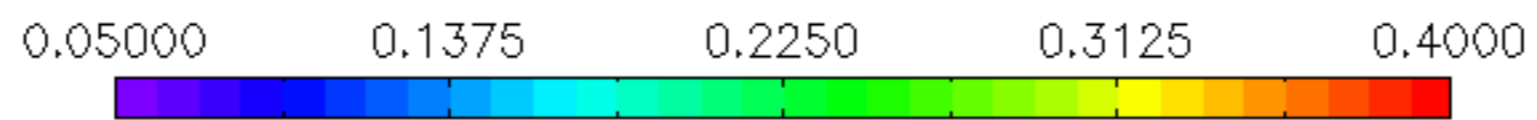
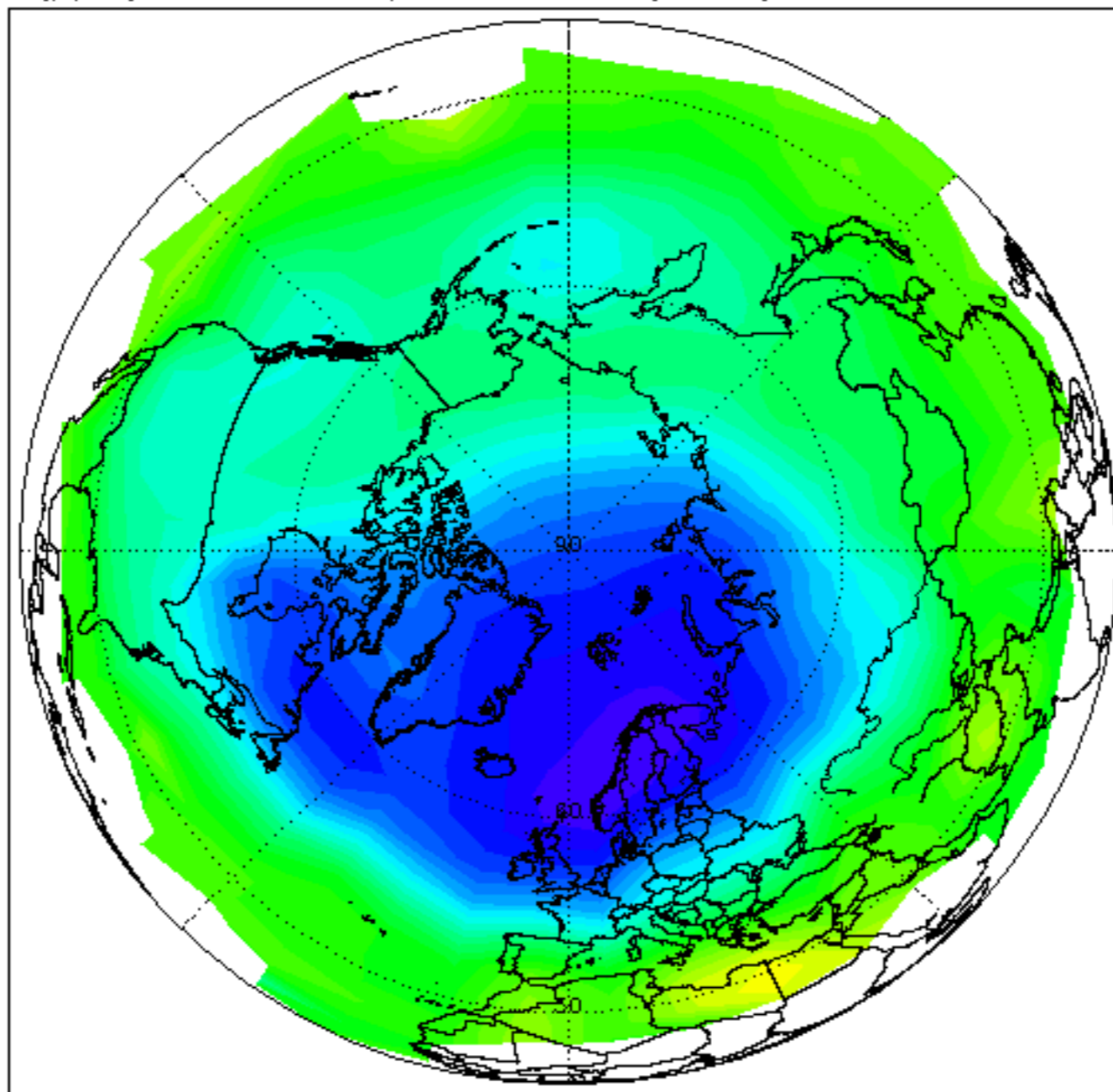
O3 (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 31-OCT-2011



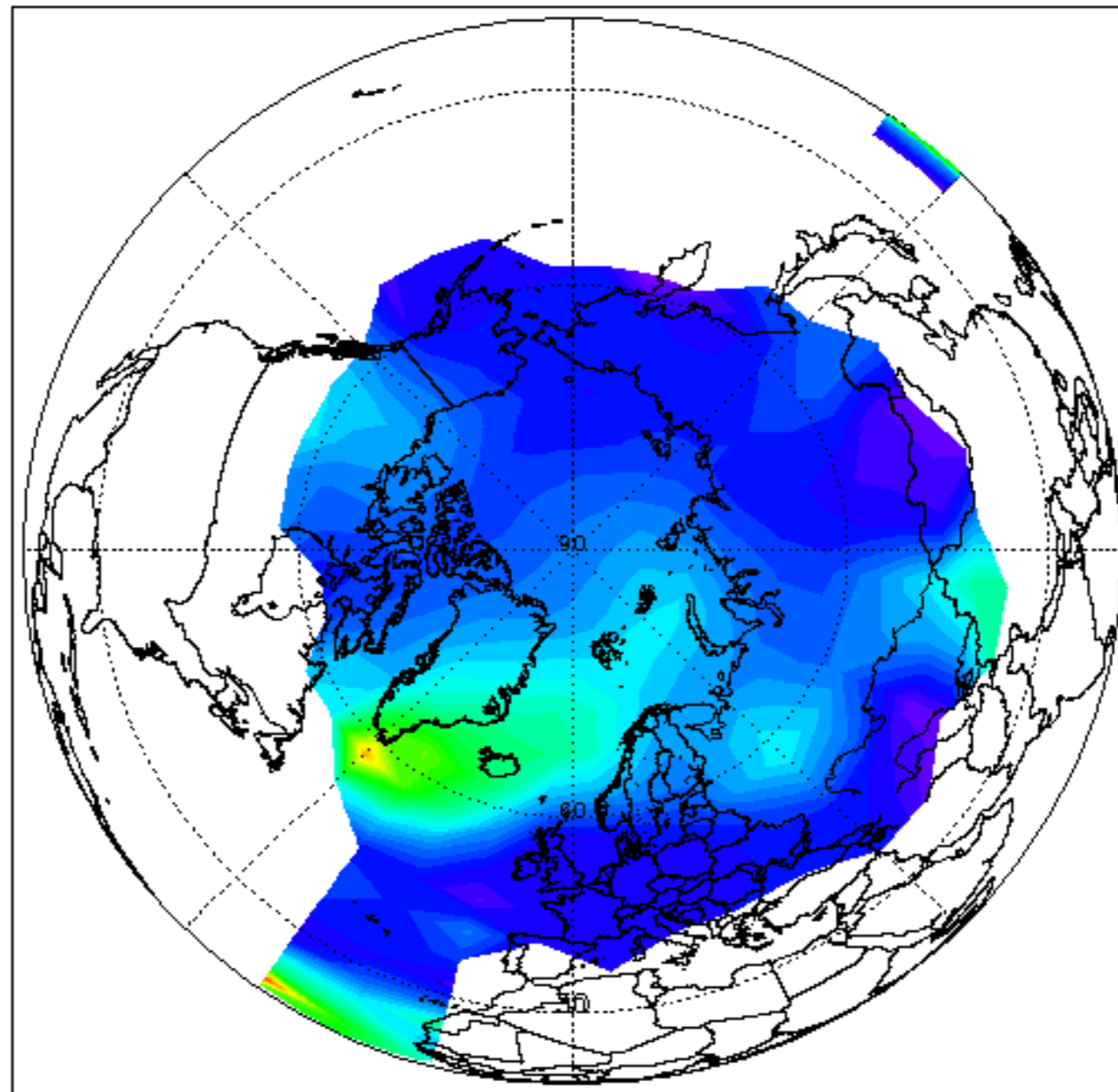
HNO<sub>3</sub> (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 31-OCT-2011



CH<sub>4</sub> (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 31-OCT-2011

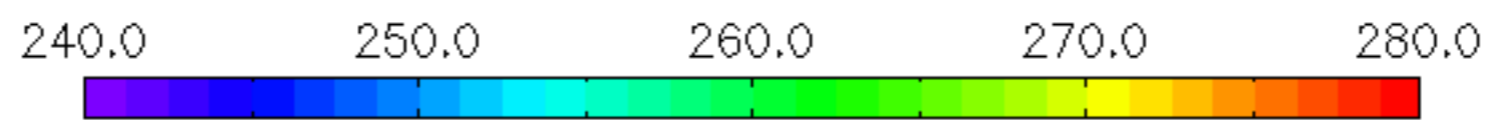
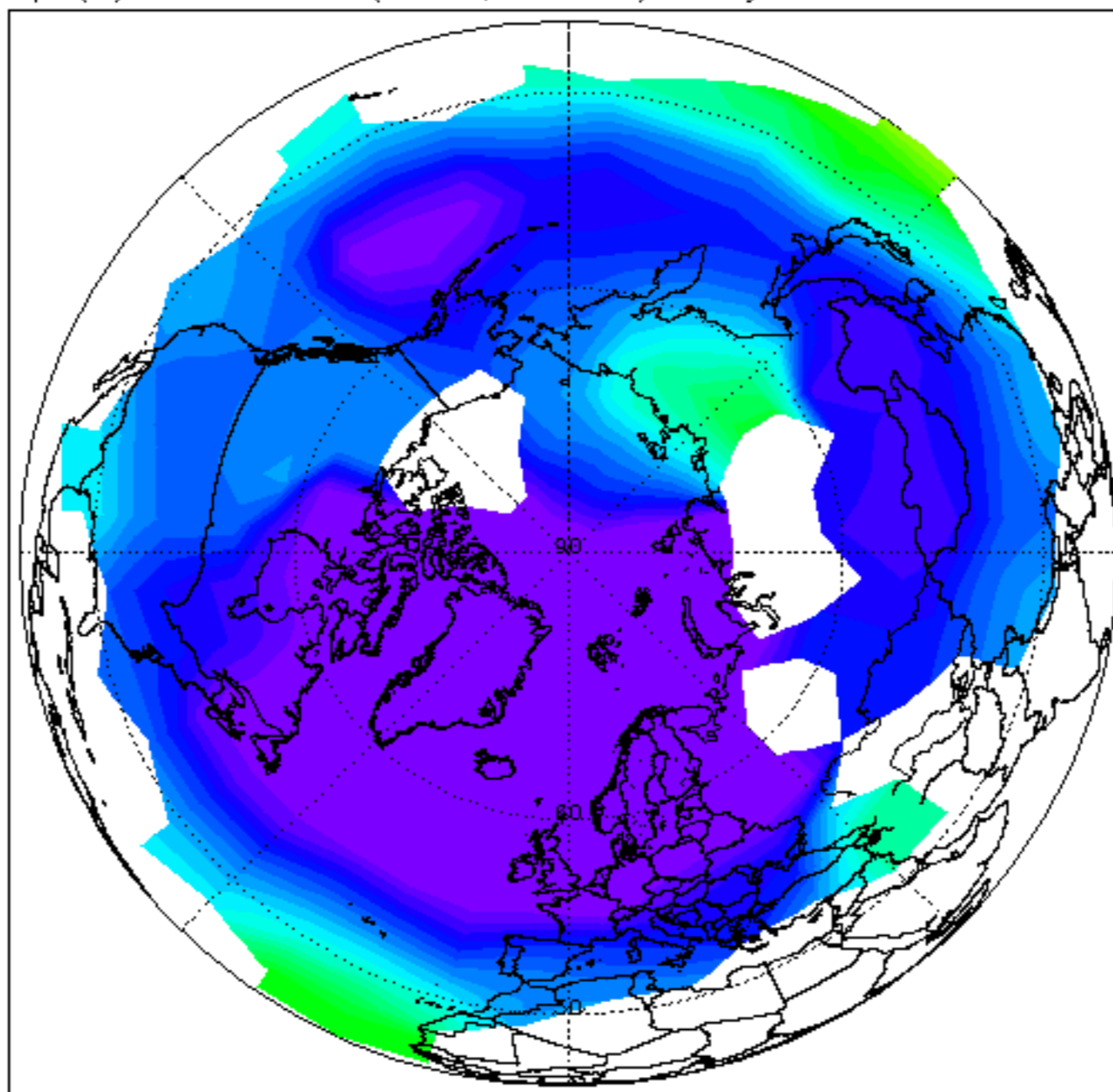


N<sub>2</sub>O (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 31-OCT-2011

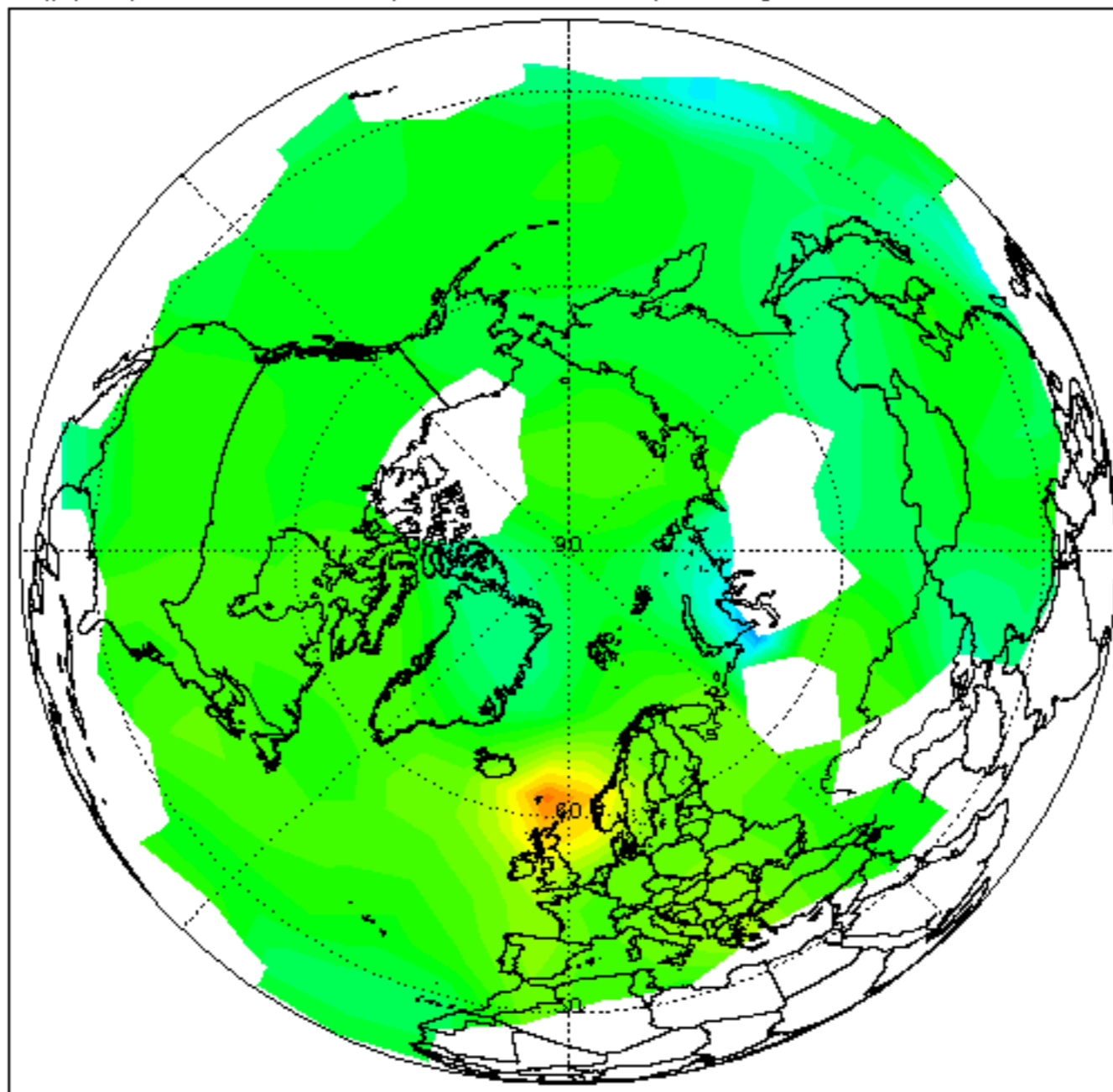




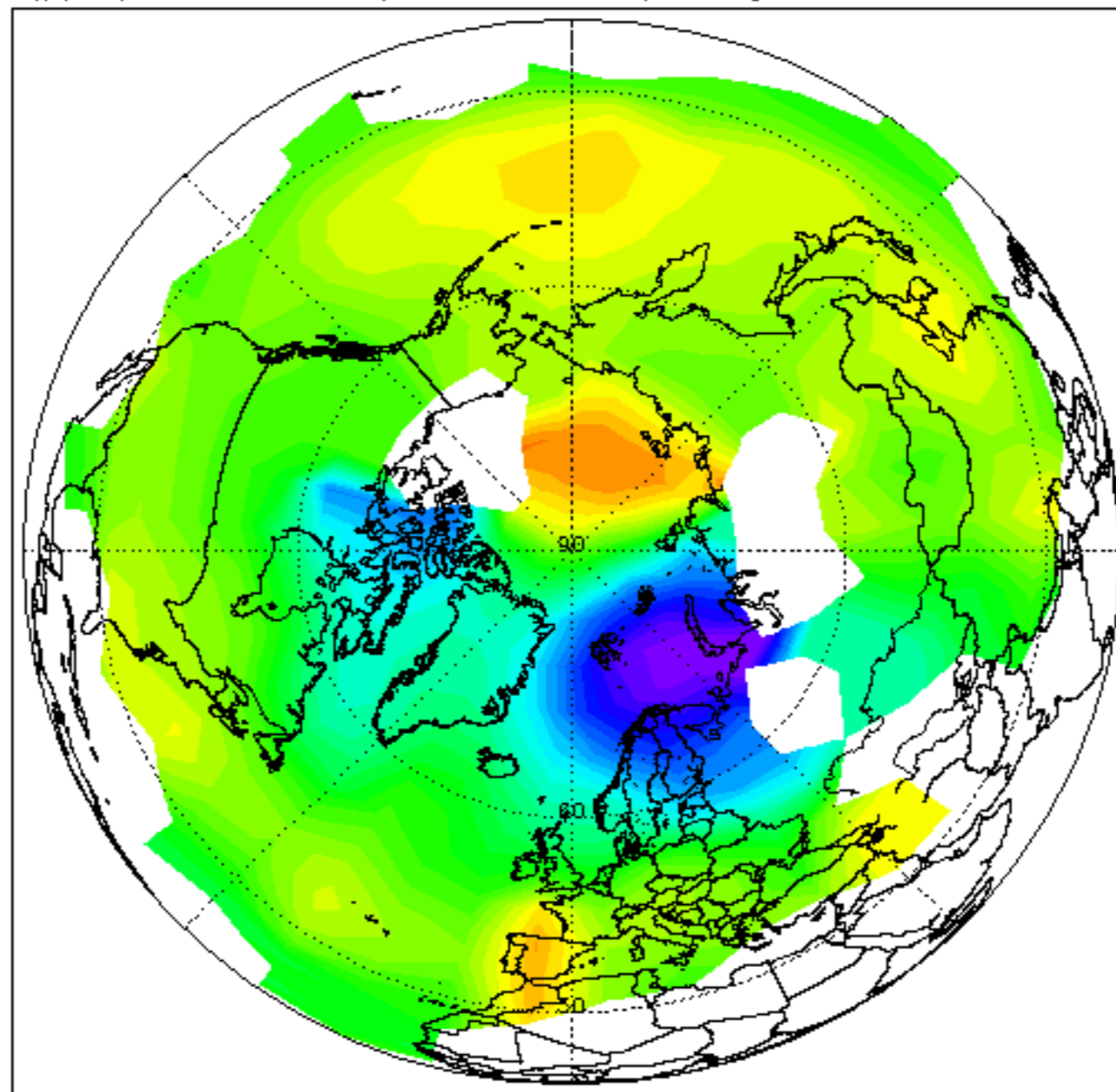
Temp (K) at: 1700 K (45km, 1.5hPa). Daily mean: 31-OCT-2011



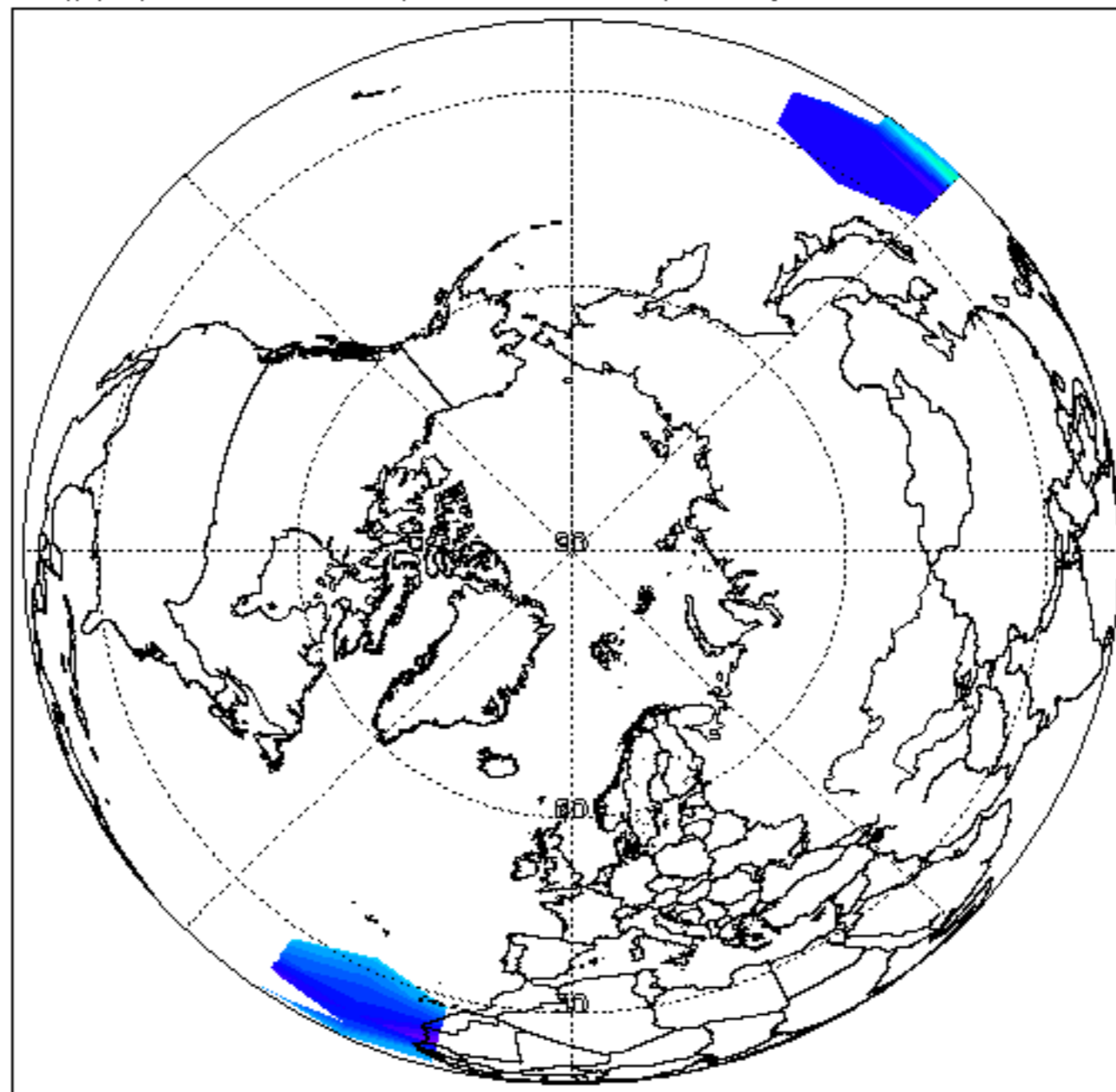
H<sub>2</sub>O (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 31-OCT-2011



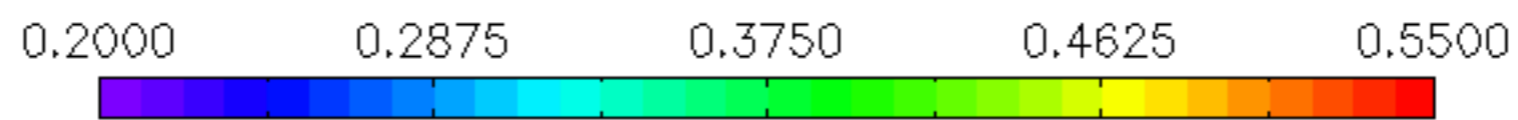
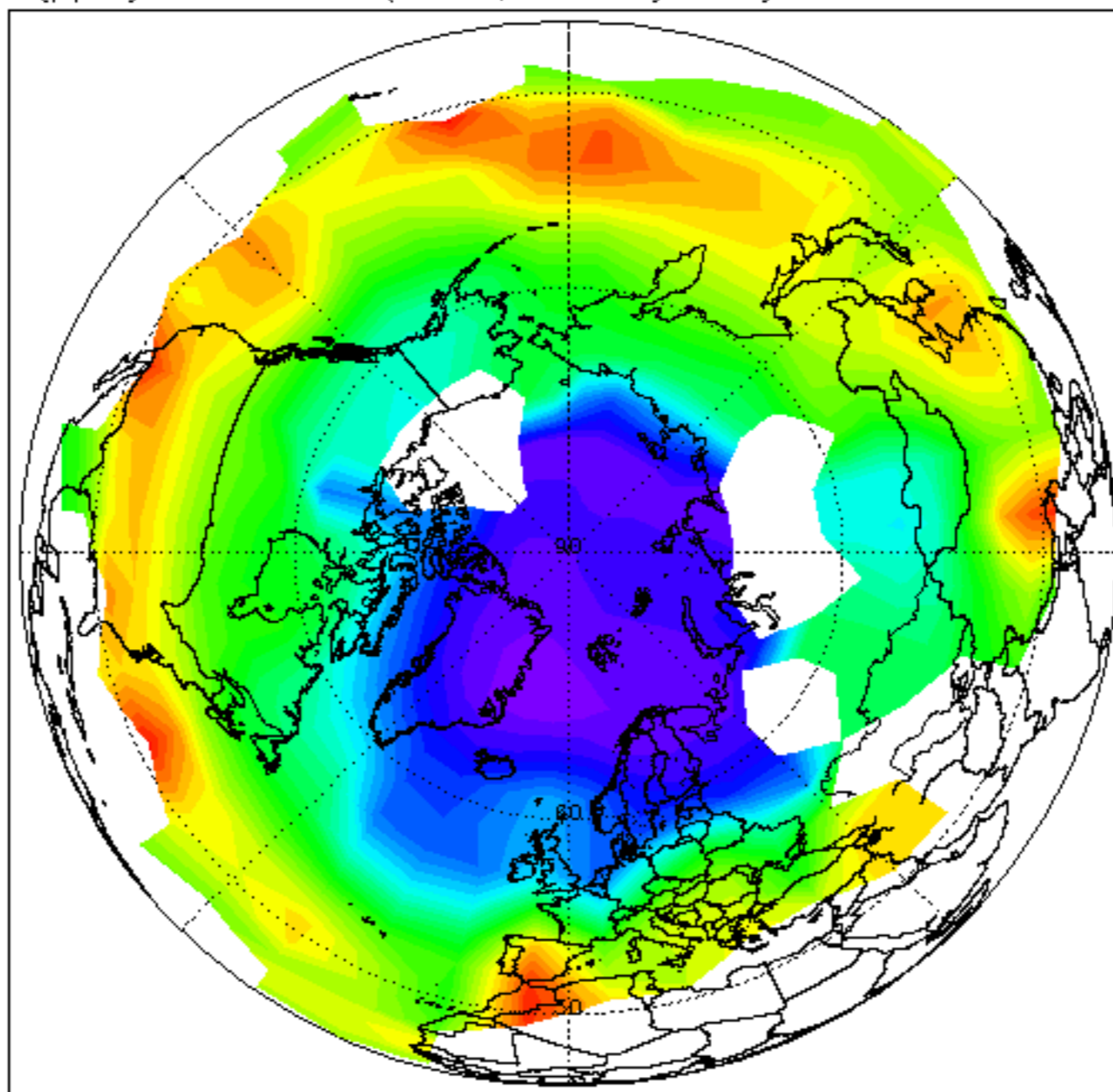
O<sub>3</sub> (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 31-OCT-2011



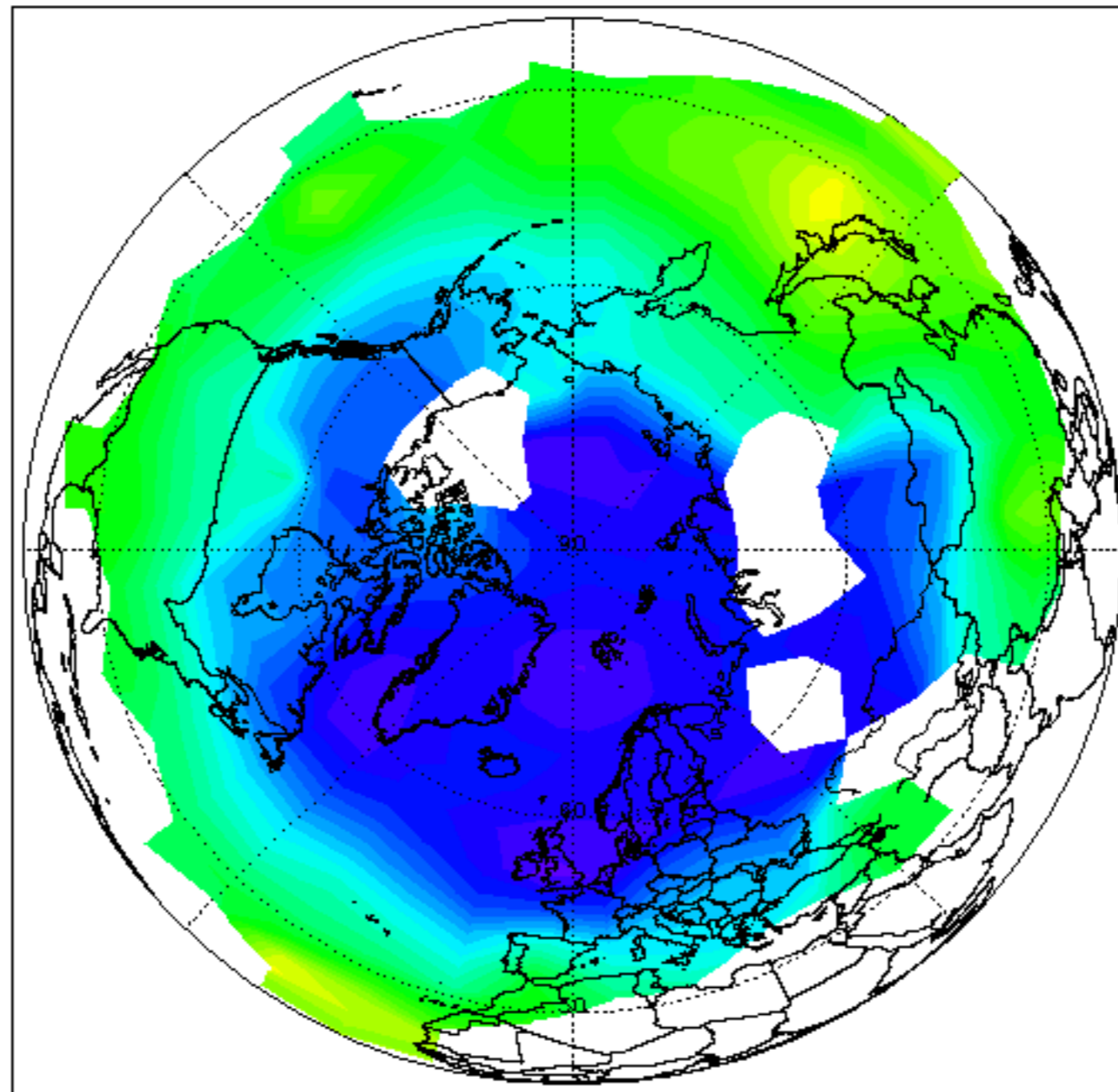
HNO<sub>3</sub> (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 31-OCT-2011



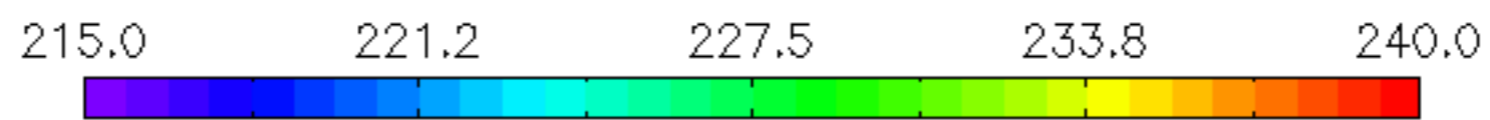
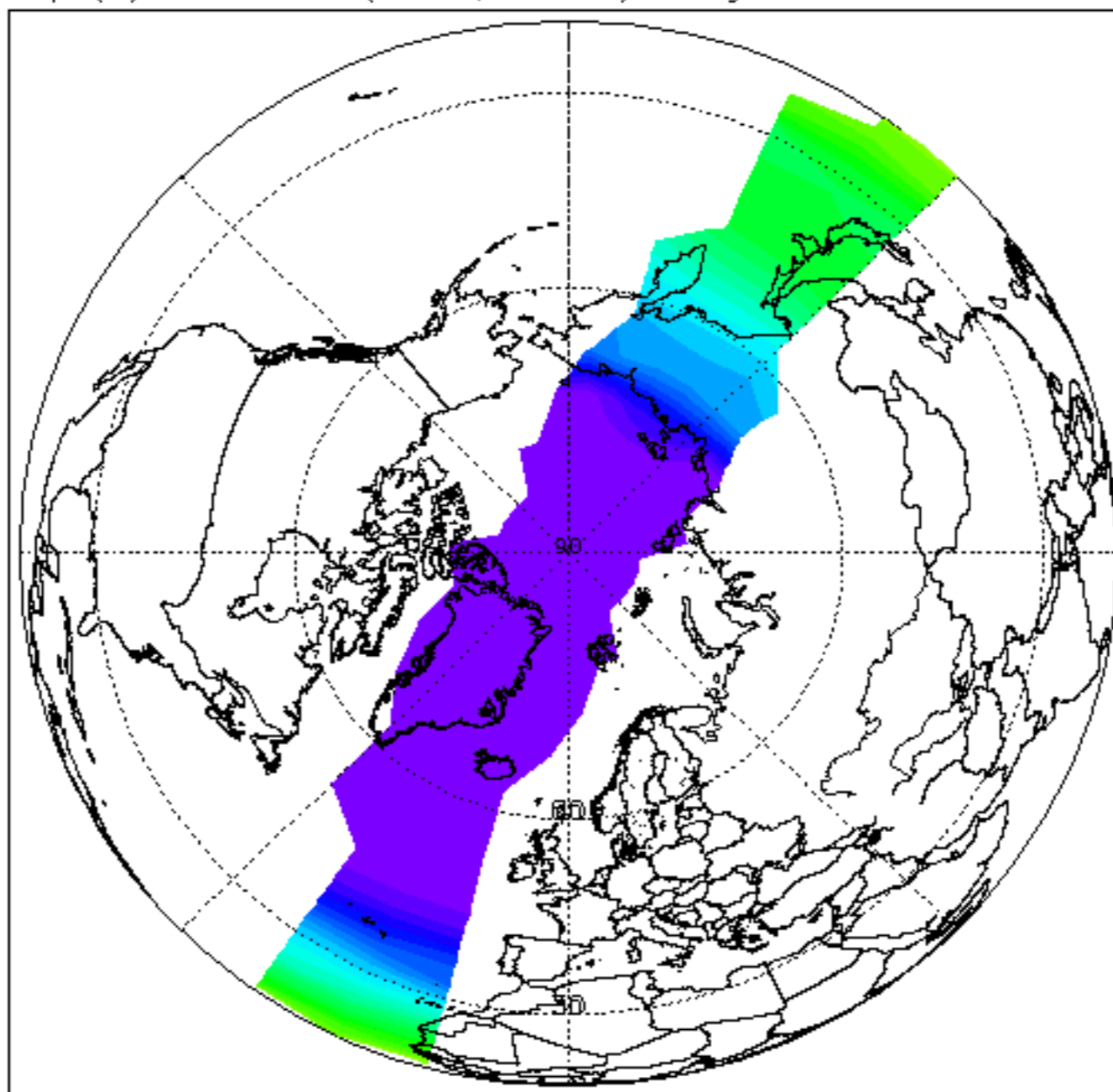
CH<sub>4</sub> (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 31-OCT-2011



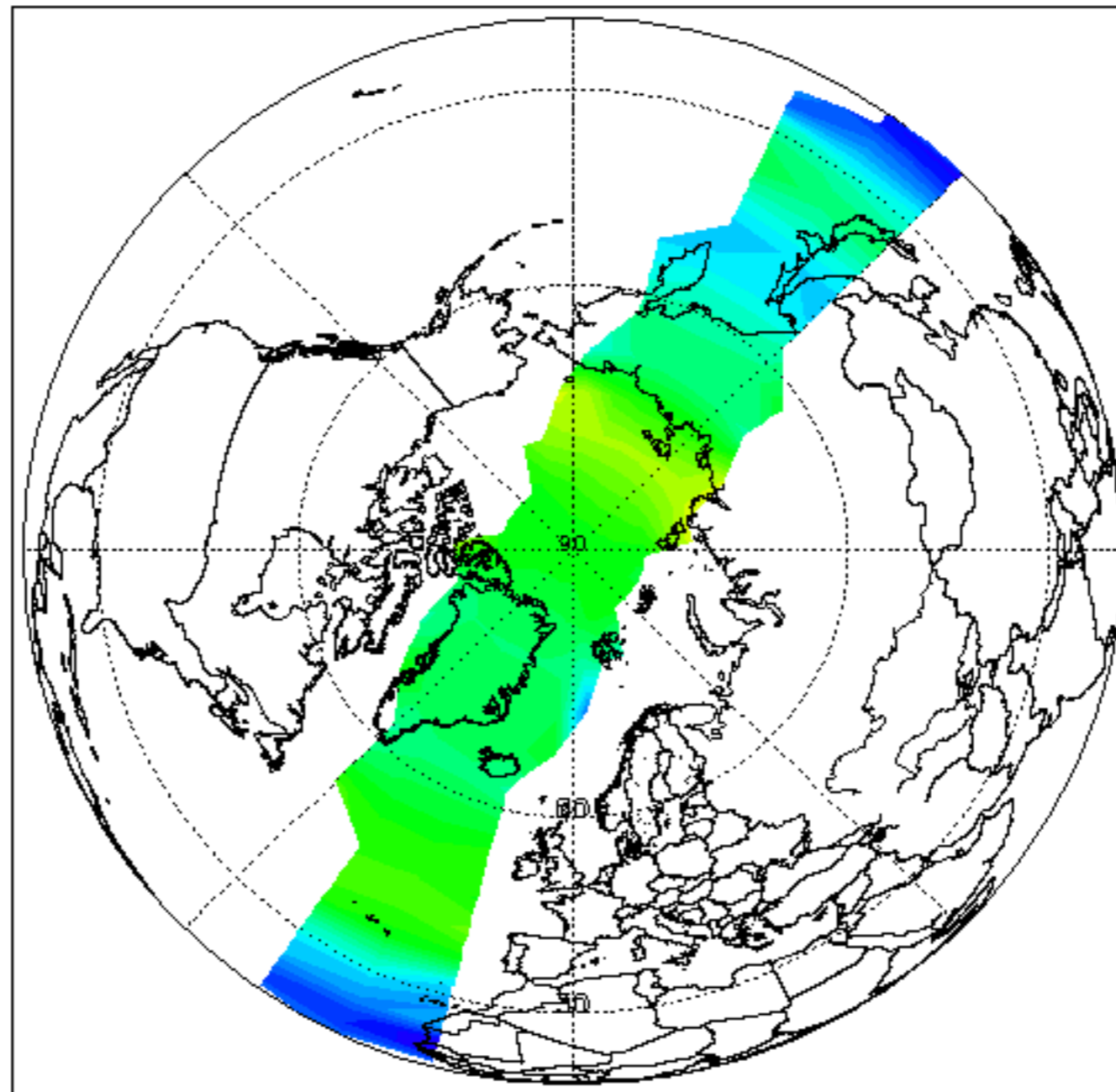
N<sub>2</sub>O (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 31-OCT-2011



Temp (K) at: 850 K (32km, 10hPa). Daily mean: 31-OCT-2011

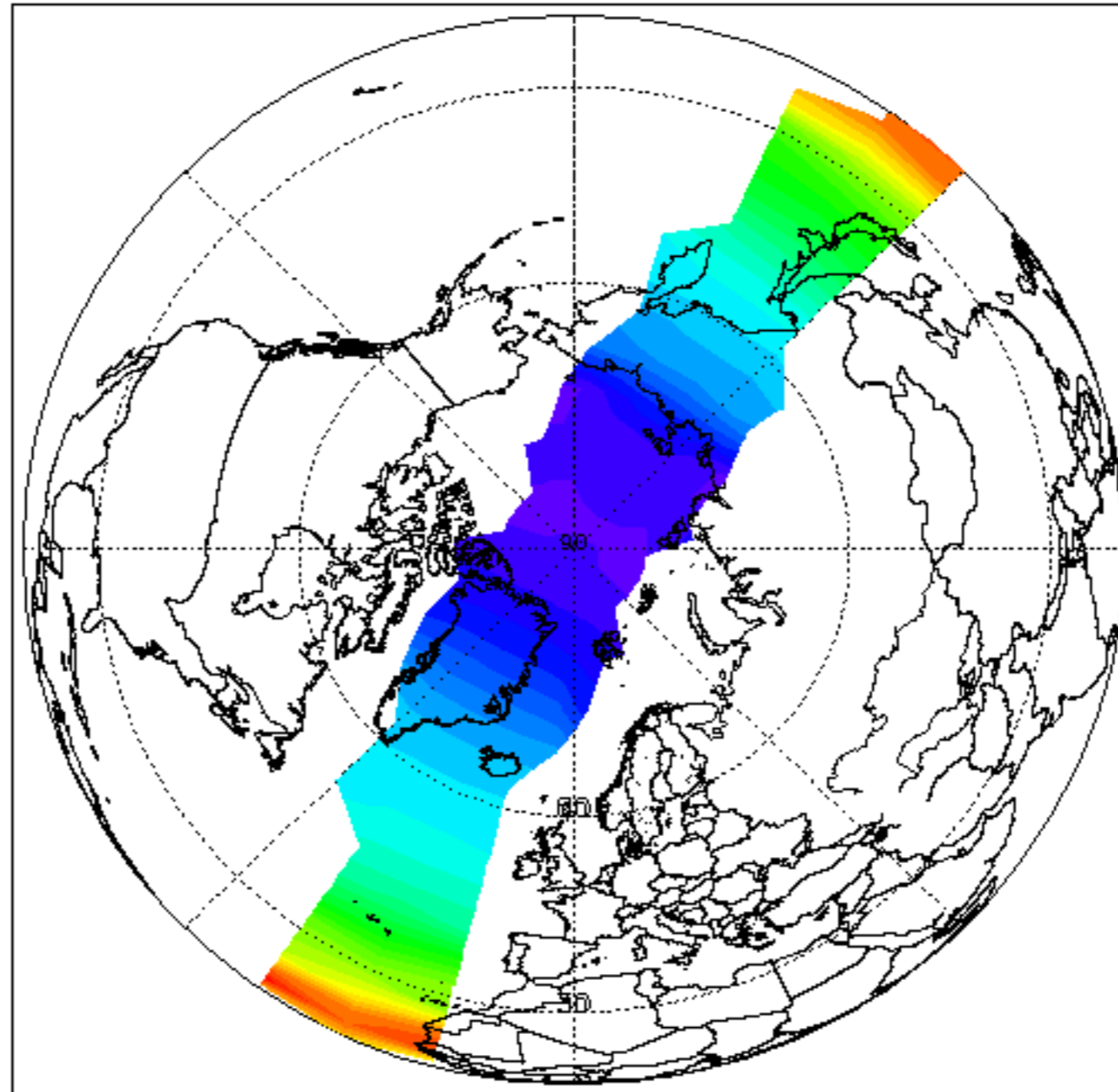


H<sub>2</sub>O (ppm) at: 850 K (32km, 10hPa). Daily mean: 31-OCT-2011

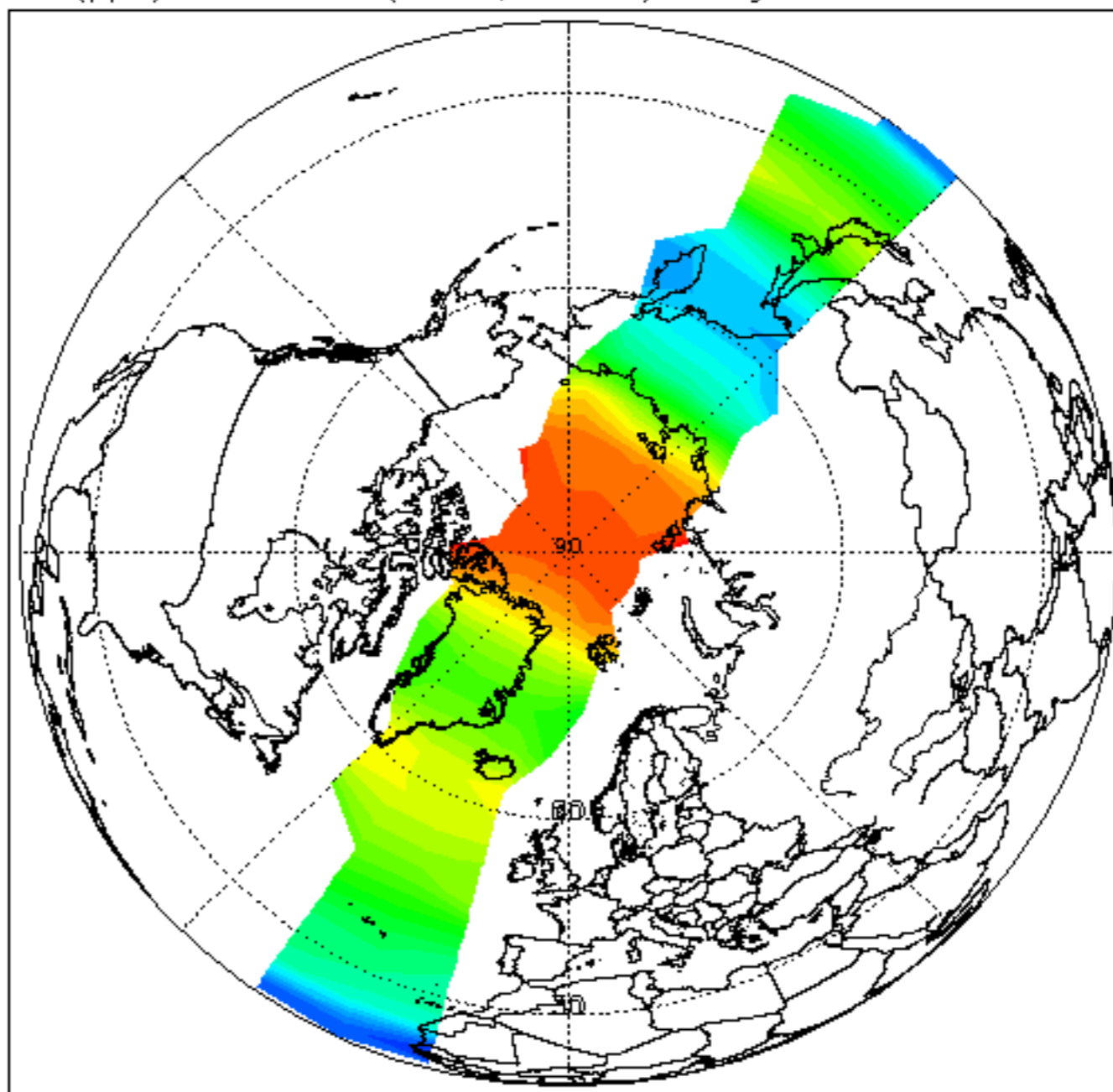




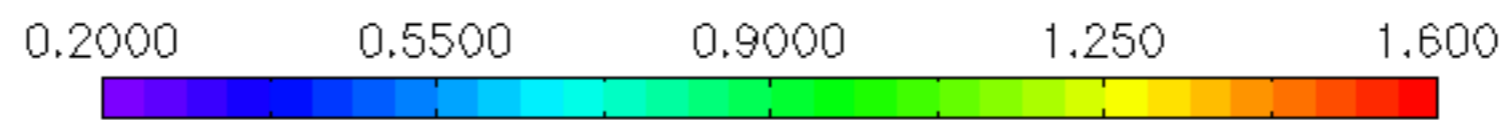
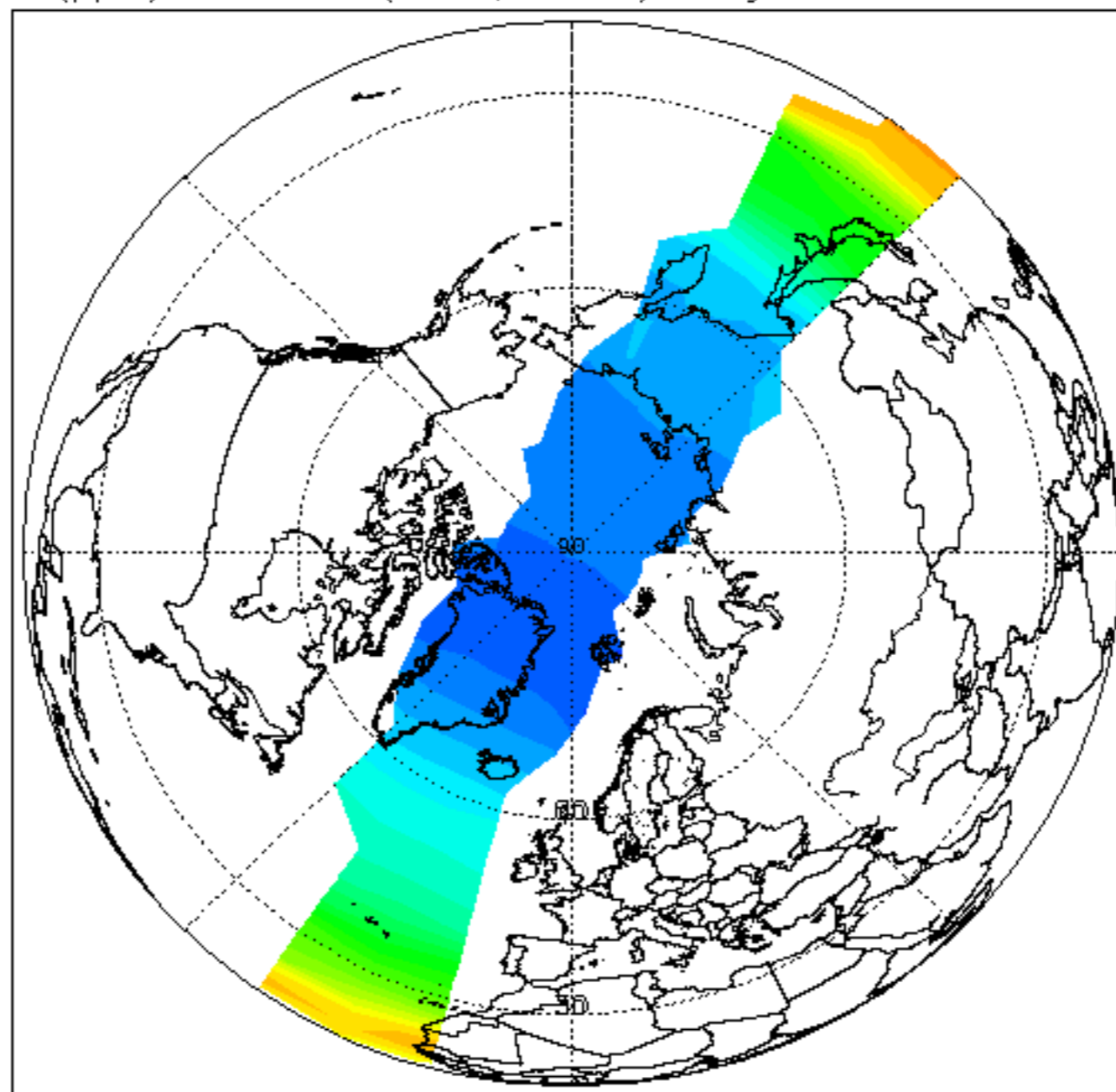
O<sub>3</sub> (ppm) at: 850 K (32km, 10hPa). Daily mean: 31-OCT-2011



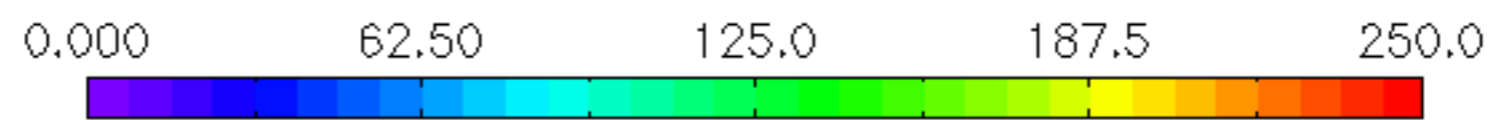
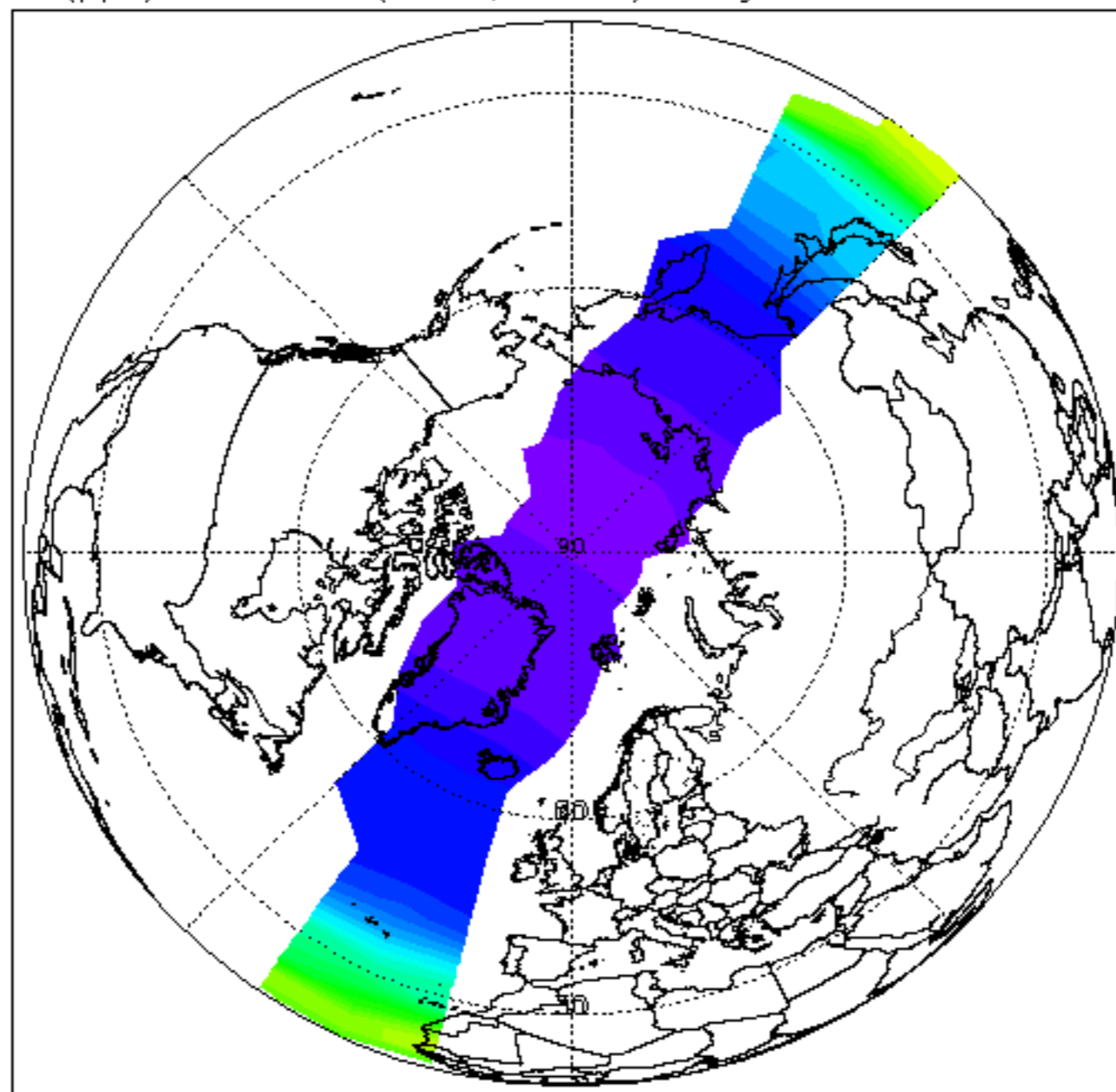
HN03 (ppb) at: 850 K (32km, 10hPa). Daily mean: 31-OCT-2011



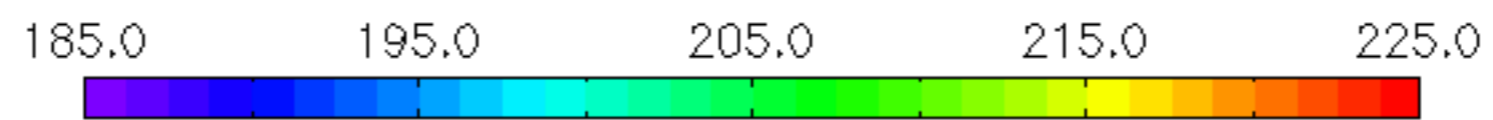
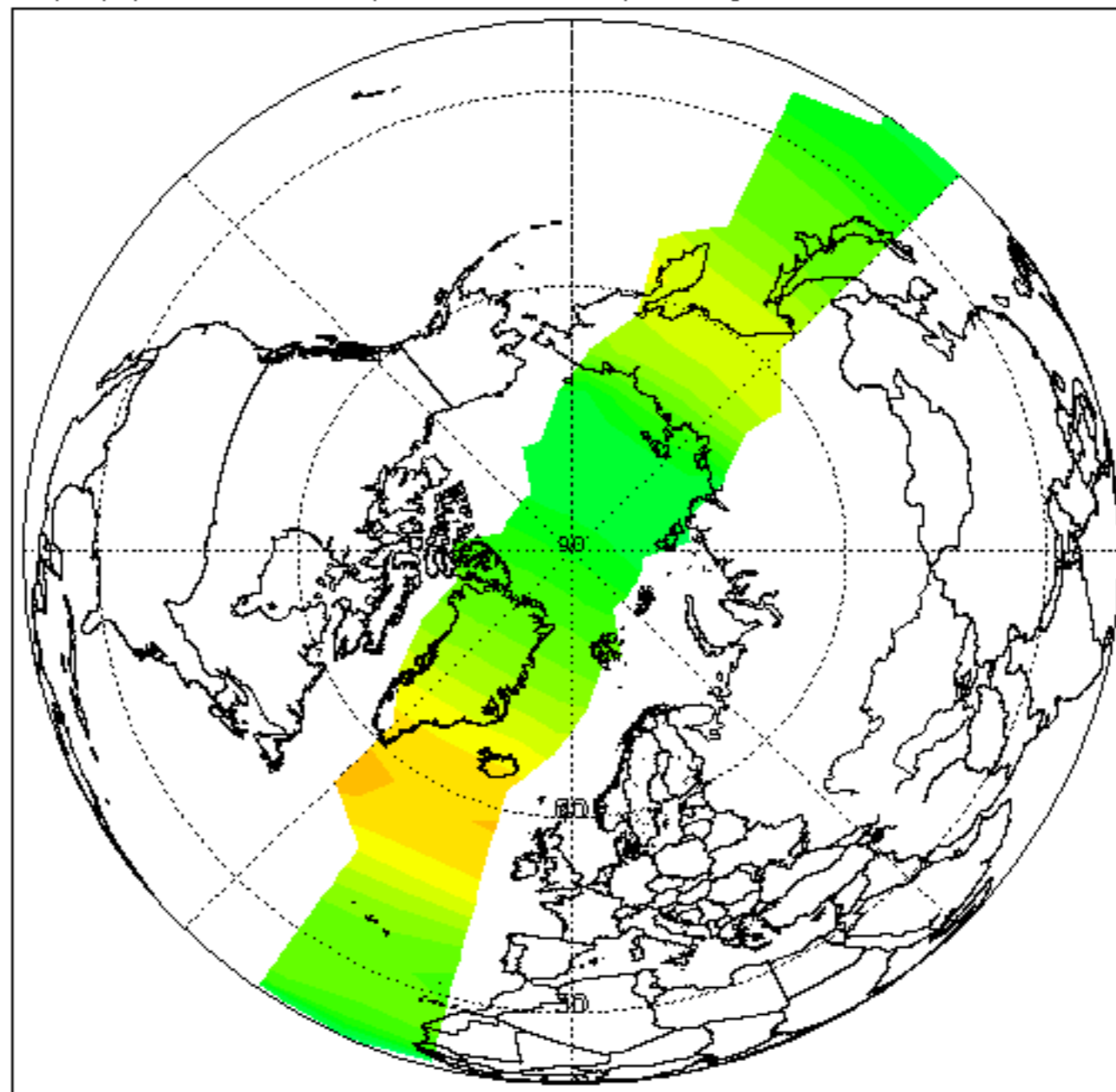
CH<sub>4</sub> (ppm) at: 850 K (32km, 10hPa). Daily mean: 31-OCT-2011



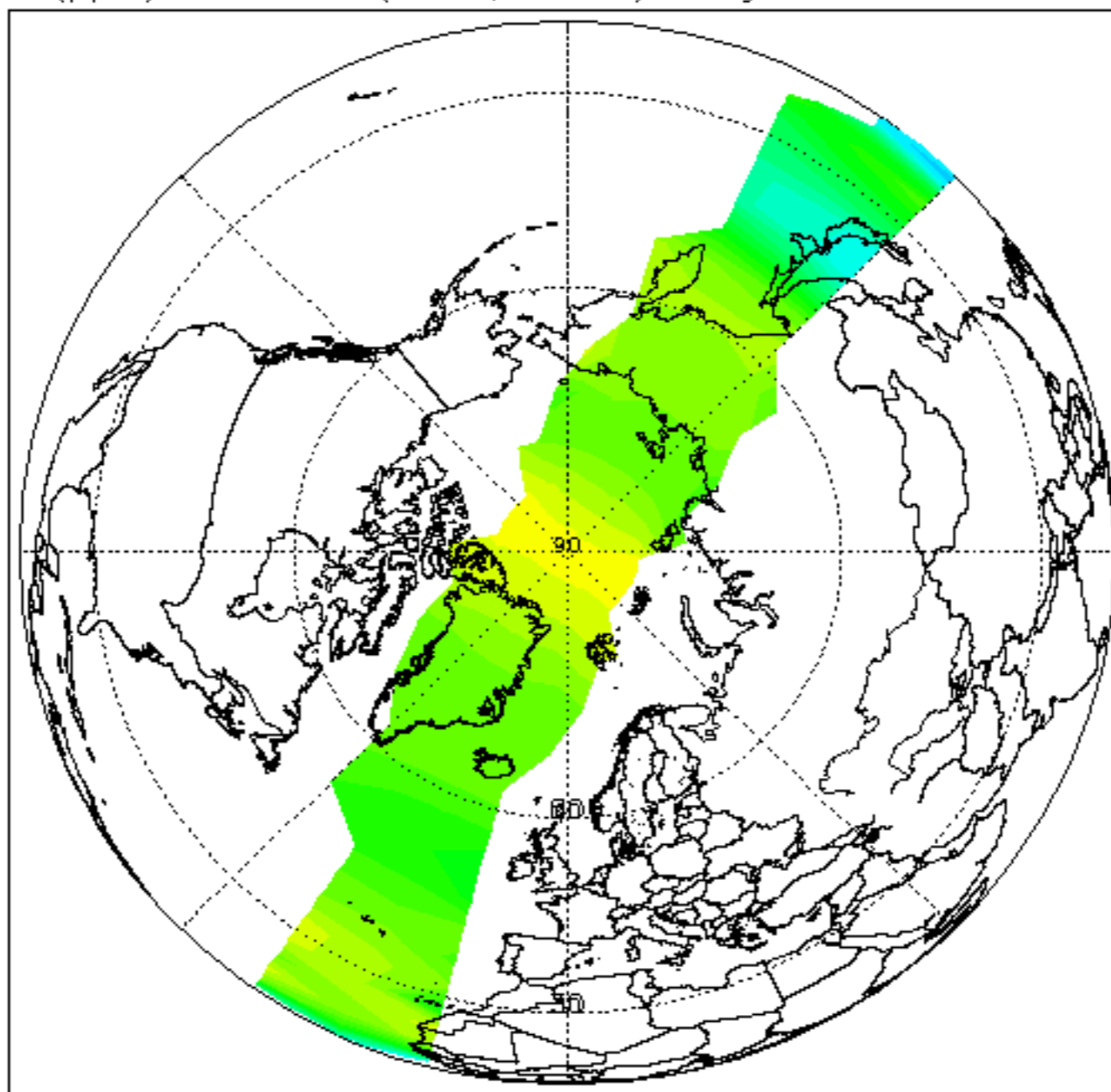
N<sub>2</sub>O (ppb) at: 850 K (32km, 10hPa). Daily mean: 31-OCT-2011



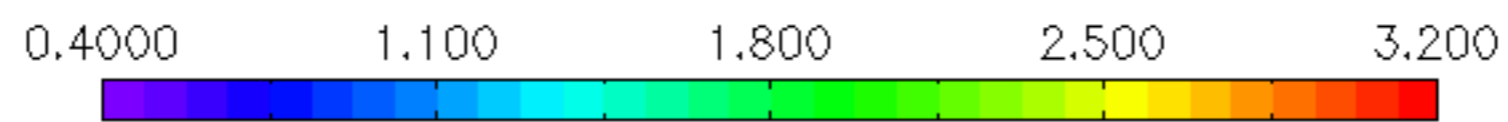
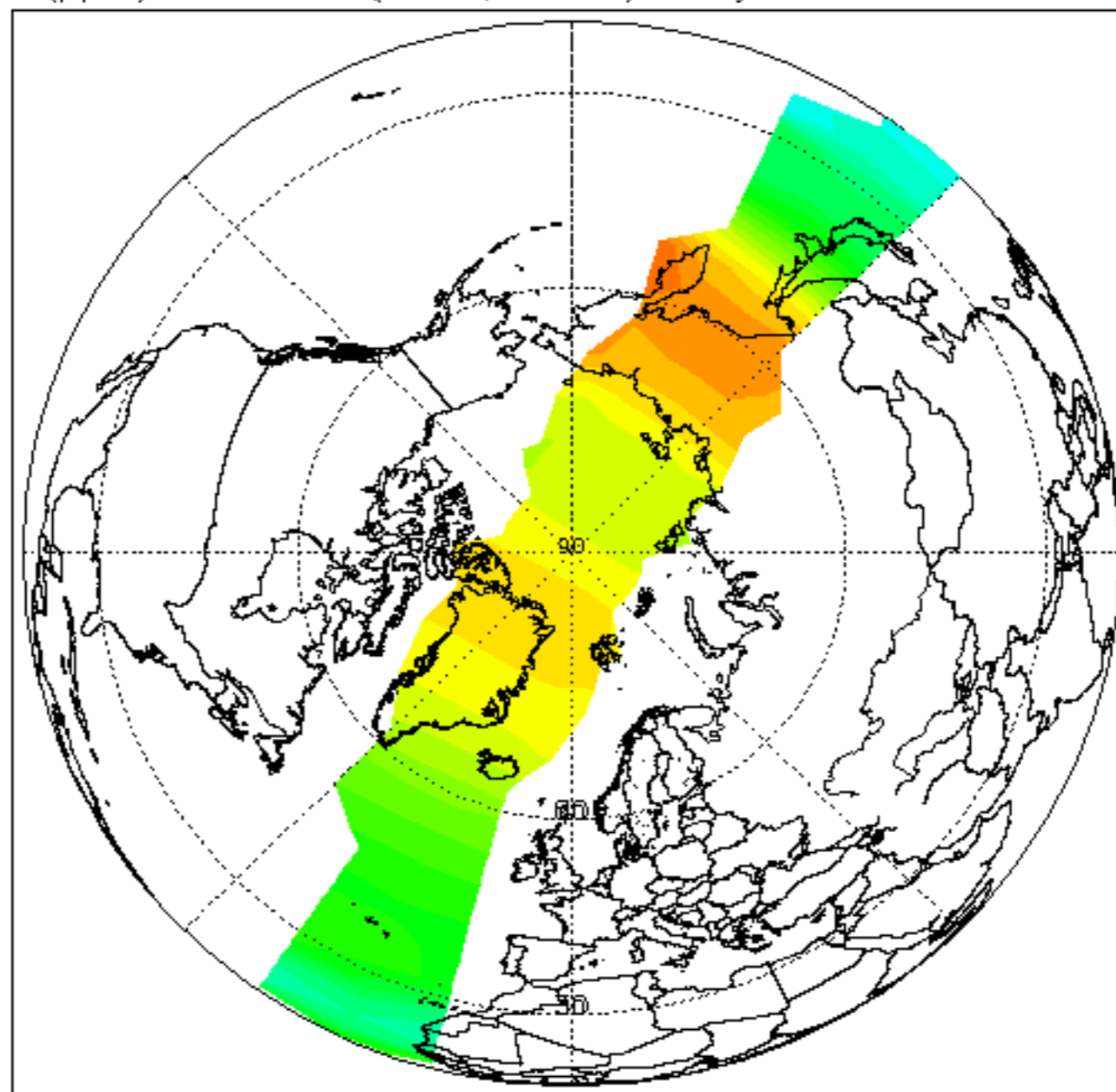
Temp (K) at: 490 K (19km, 55hPa). Daily mean: 31-OCT-2011



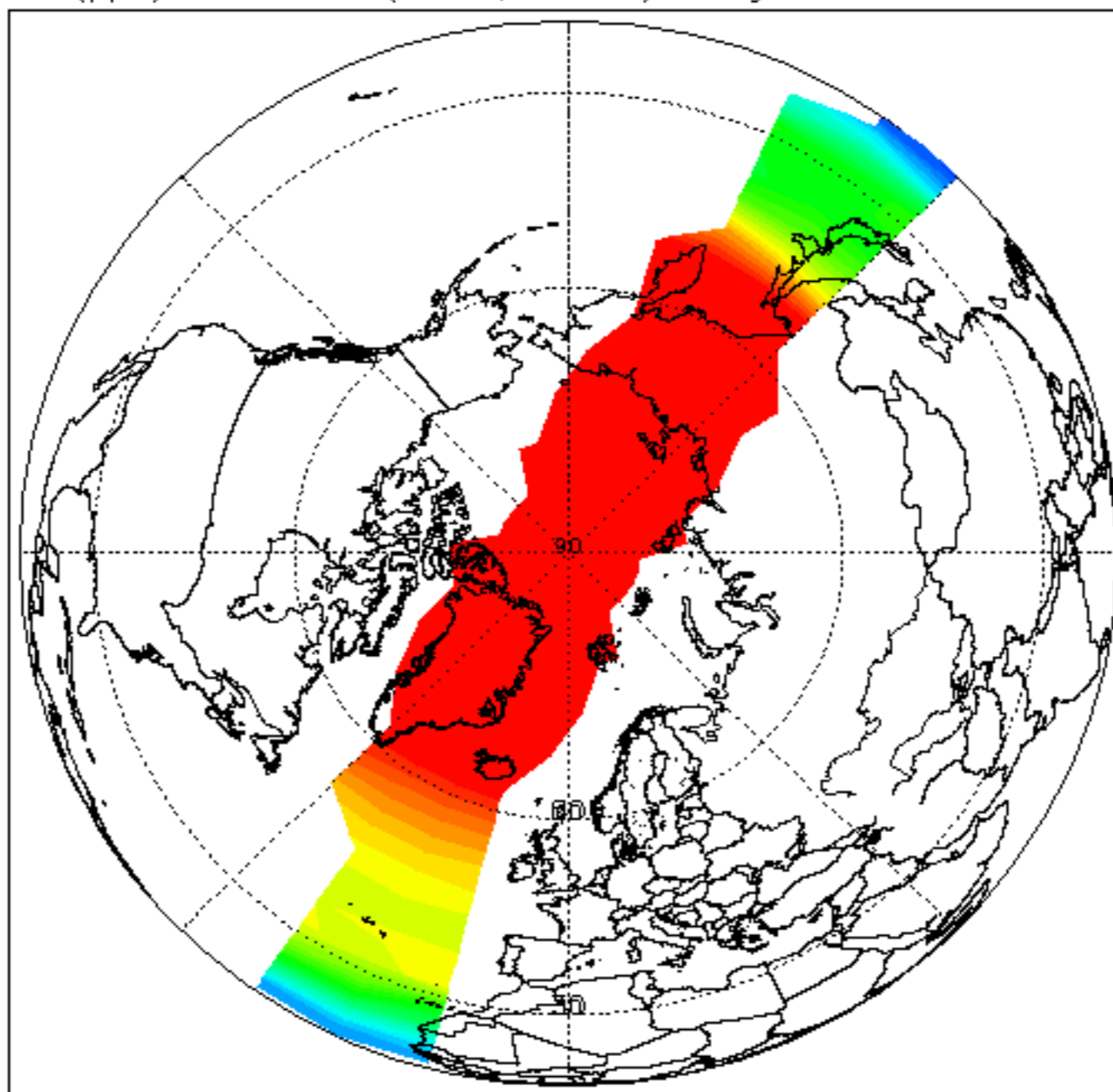
H<sub>2</sub>O (ppm) at: 490 K (19km, 55hPa). Daily mean: 31-OCT-2011



O<sub>3</sub> (ppm) at: 490 K (19km, 55hPa). Daily mean: 31-OCT-2011

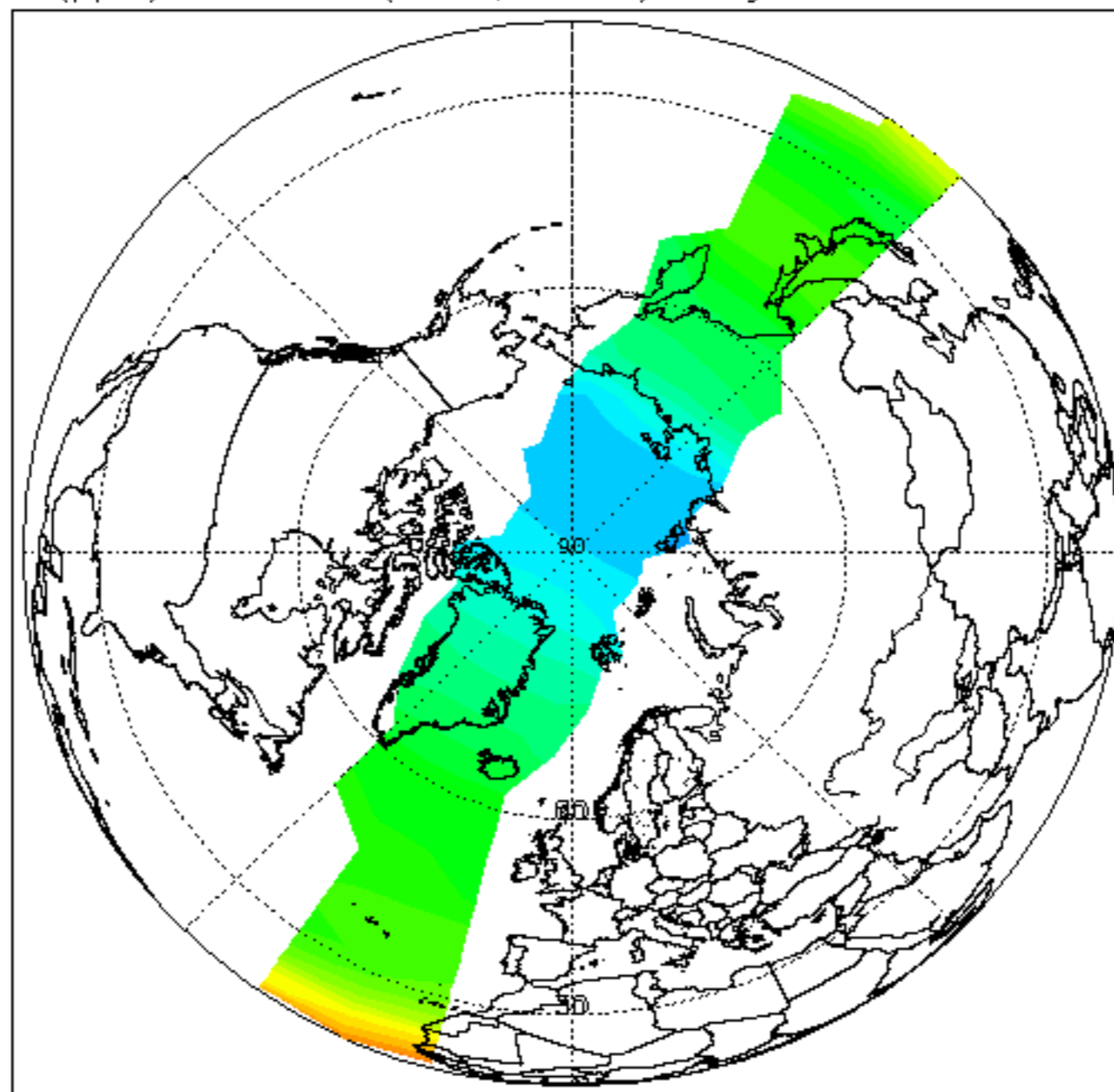


HN03 (ppb) at: 490 K (19km, 55hPa). Daily mean: 31-OCT-2011

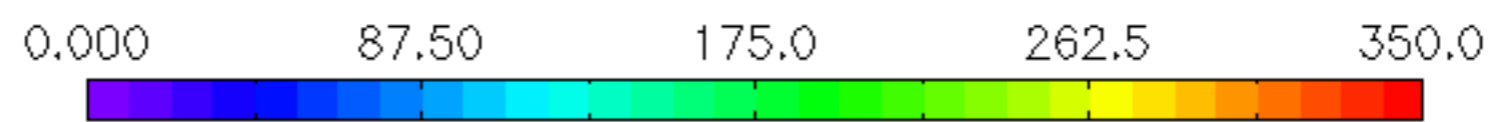
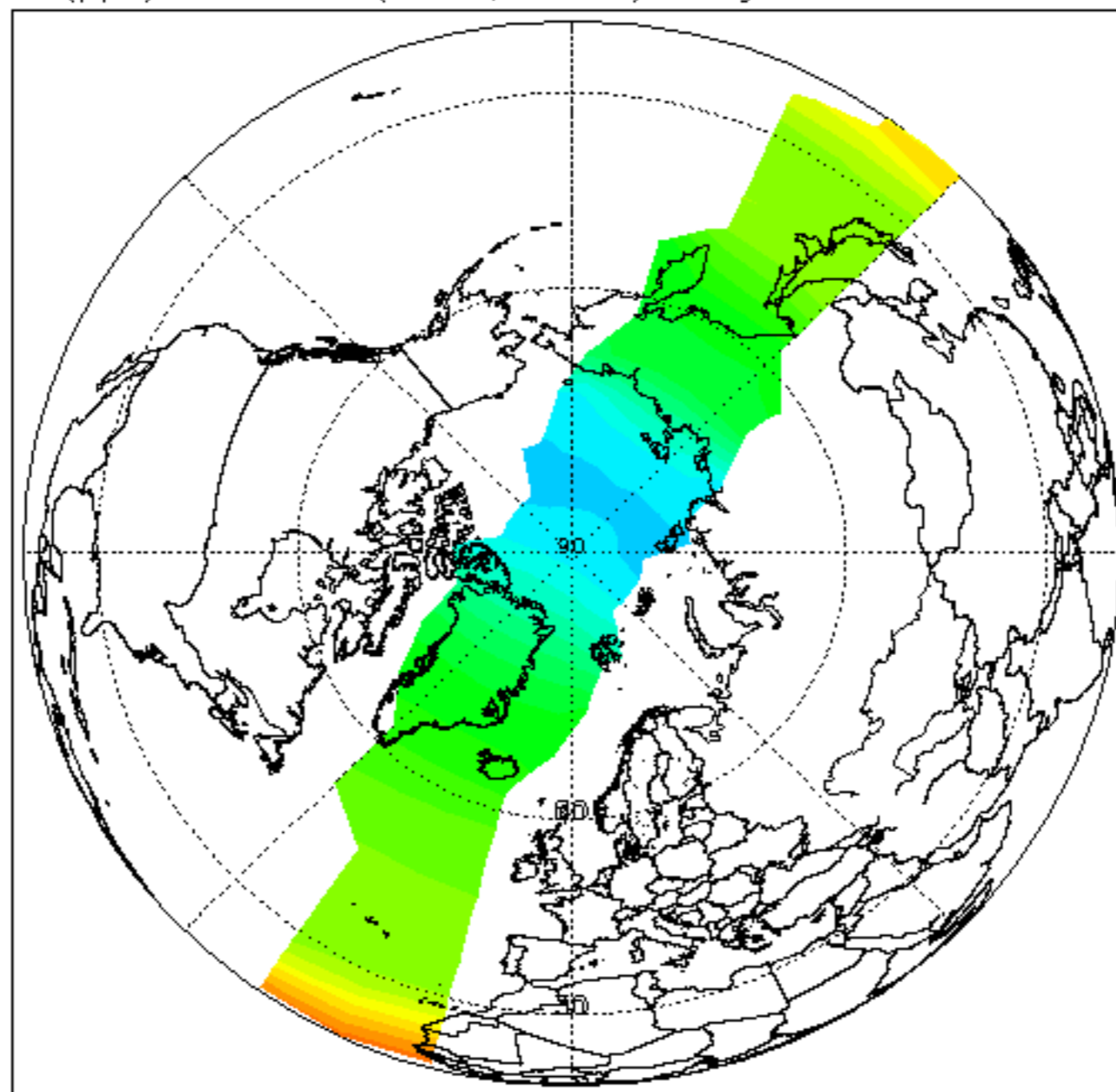




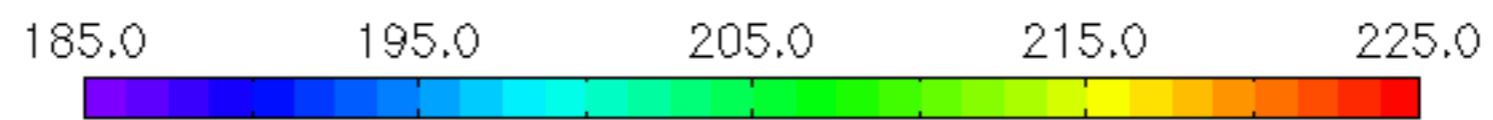
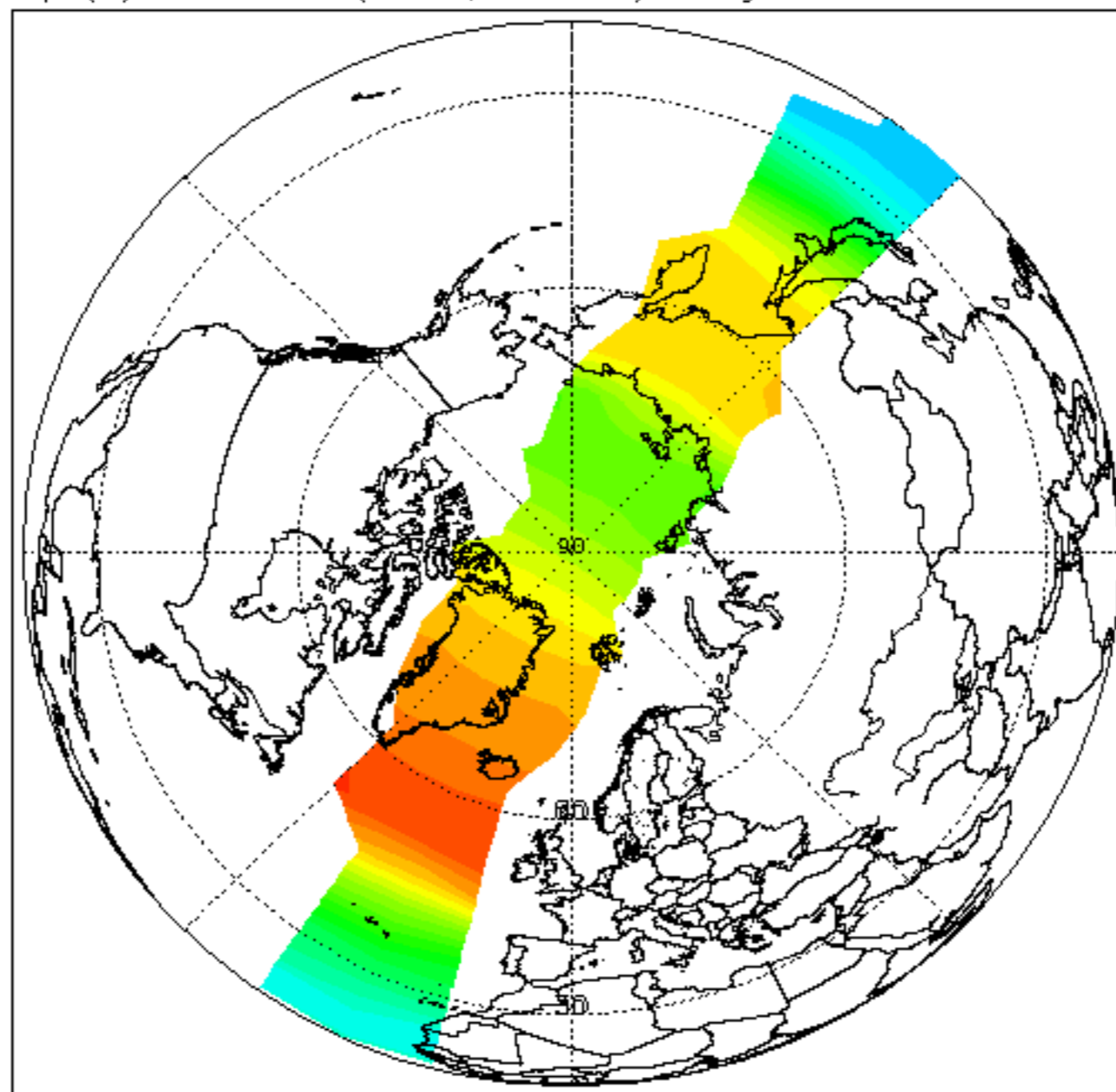
CH<sub>4</sub> (ppm) at: 490 K (19km, 55hPa). Daily mean: 31-OCT-2011



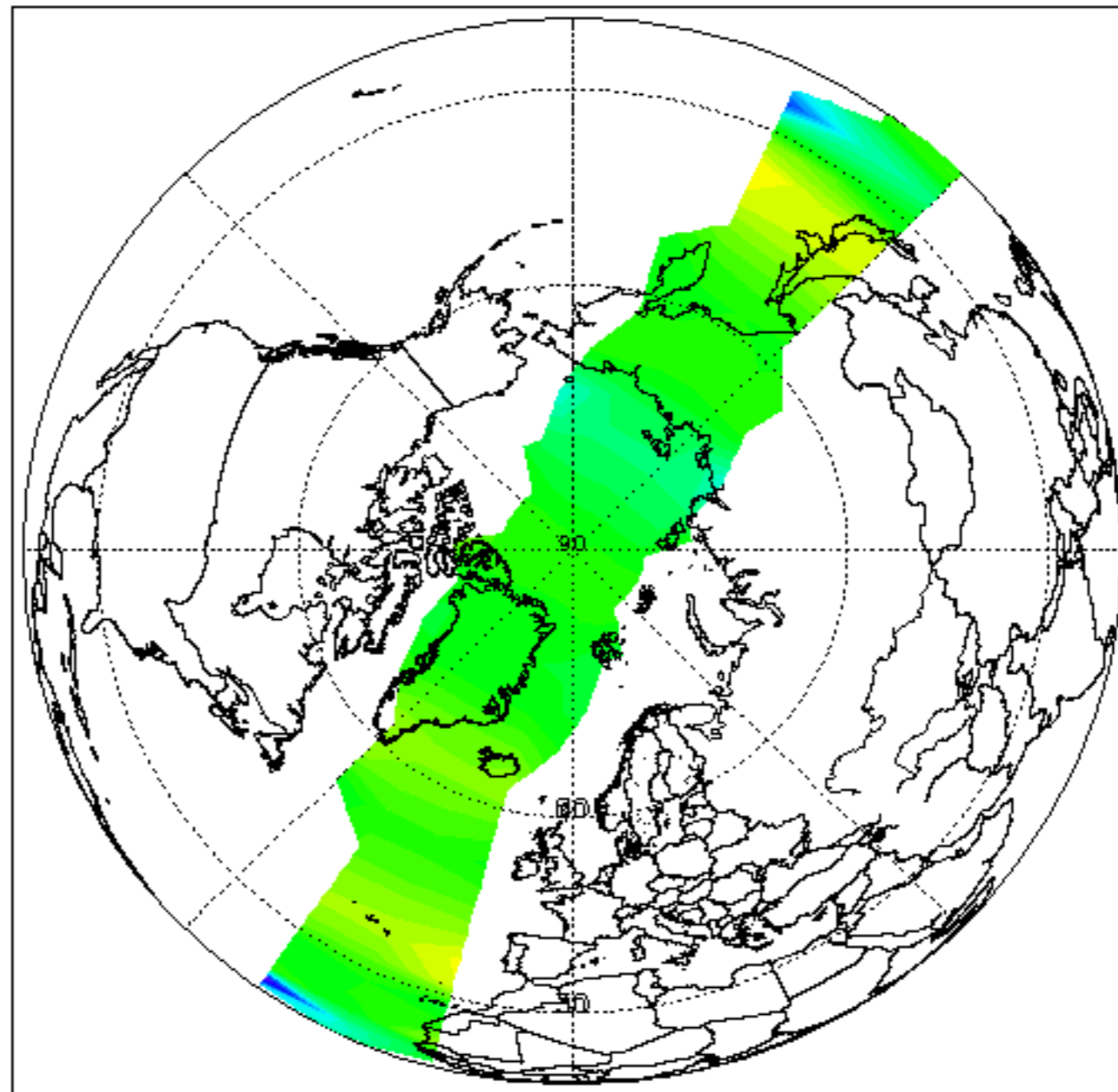
N<sub>2</sub>O (ppb) at: 490 K (19km, 55hPa). Daily mean: 31-OCT-2011



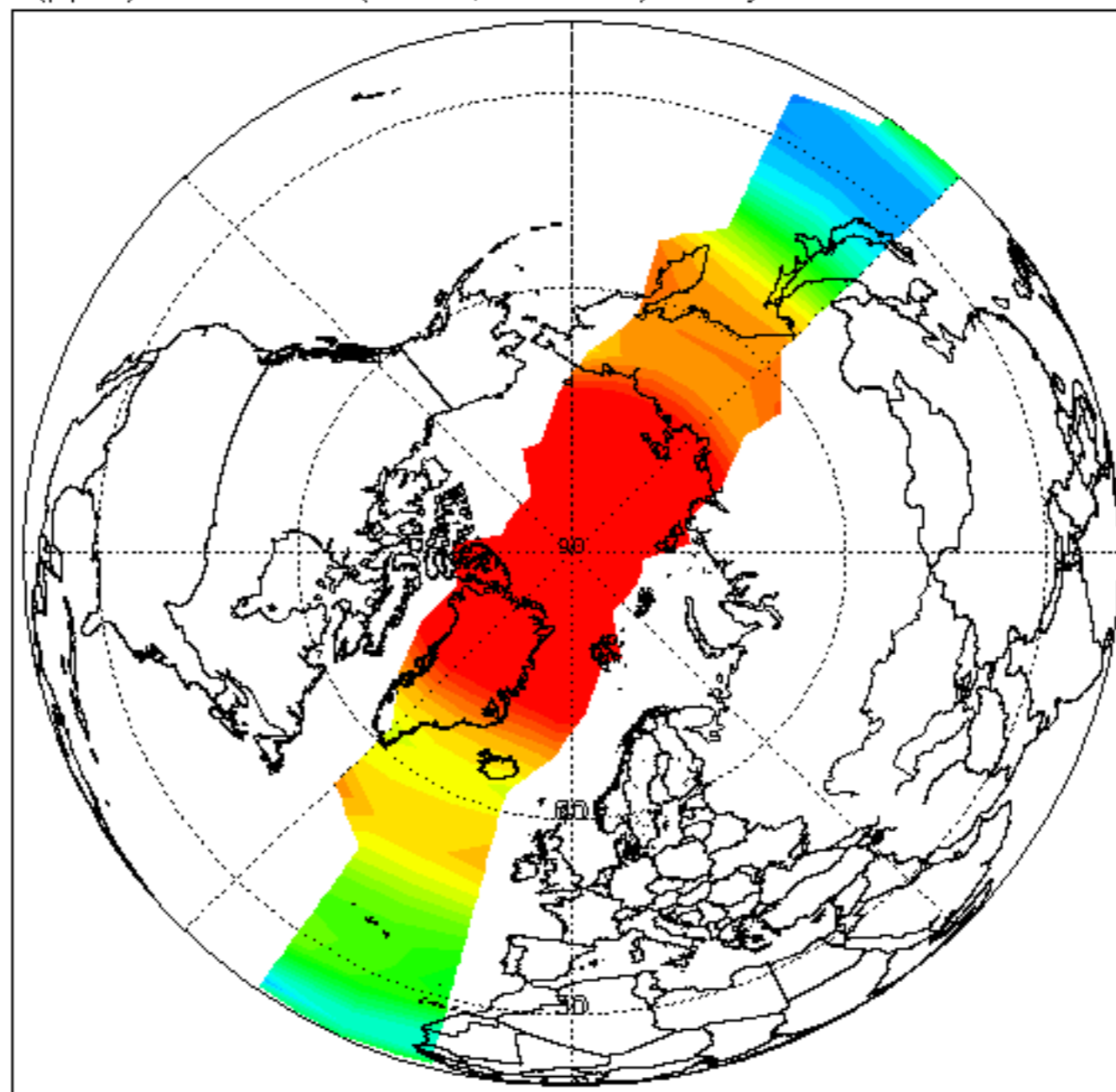
Temp (K) at: 410 K (16km, 100hPa). Daily mean: 31-OCT-2011



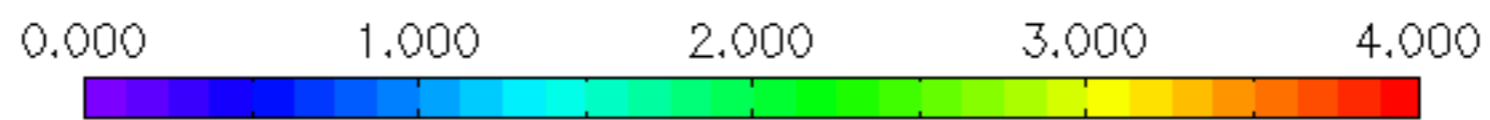
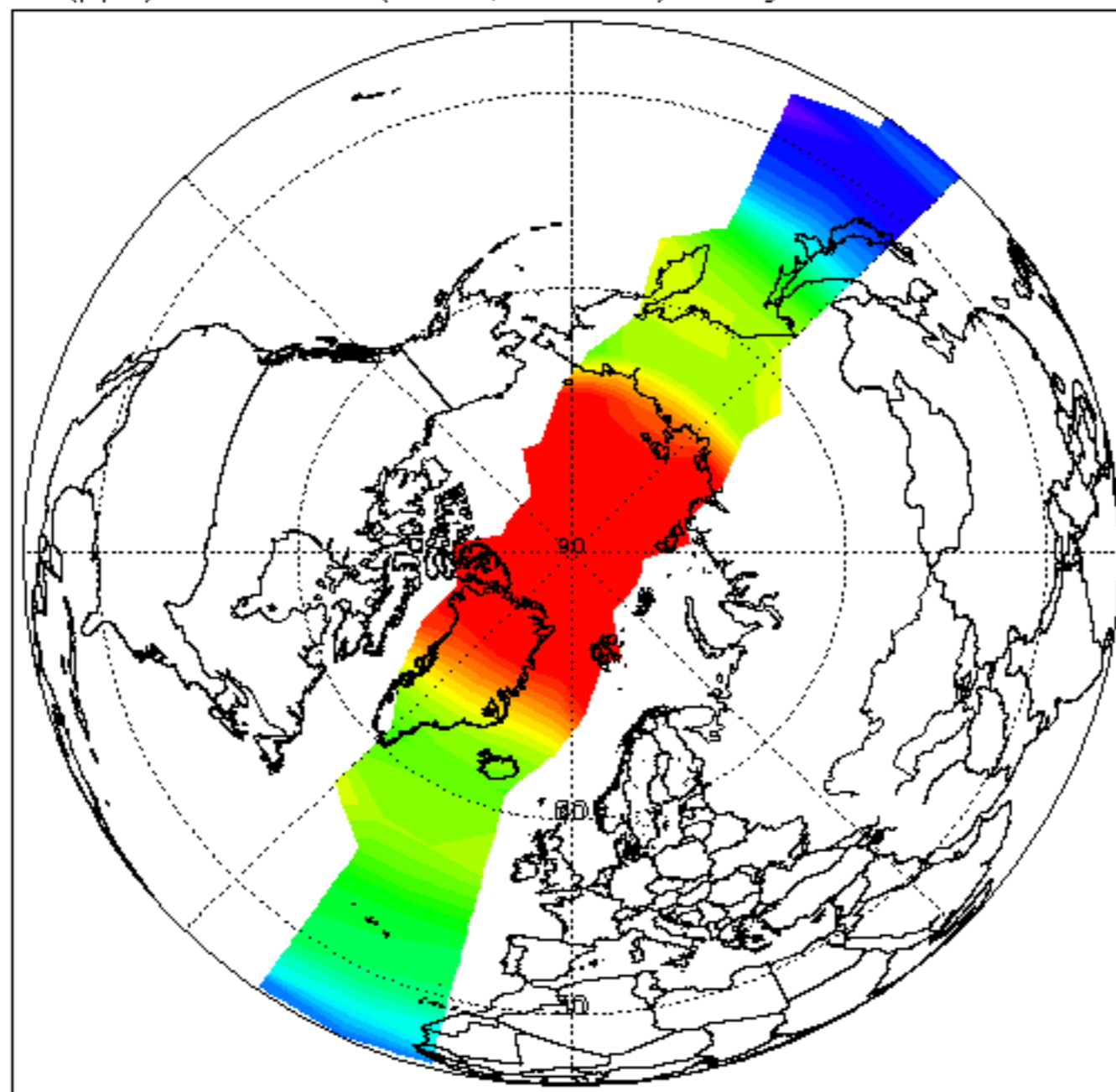
H<sub>2</sub>O (ppm) at: 410 K (16km, 100hPa). Daily mean: 31-OCT-2011



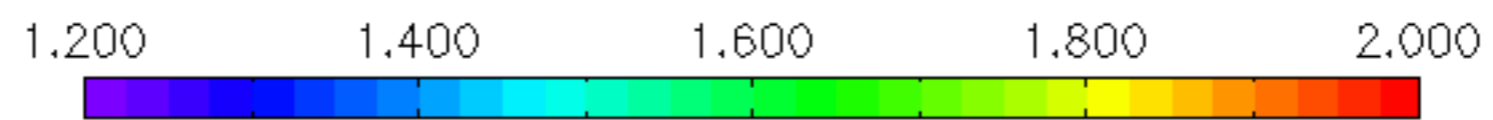
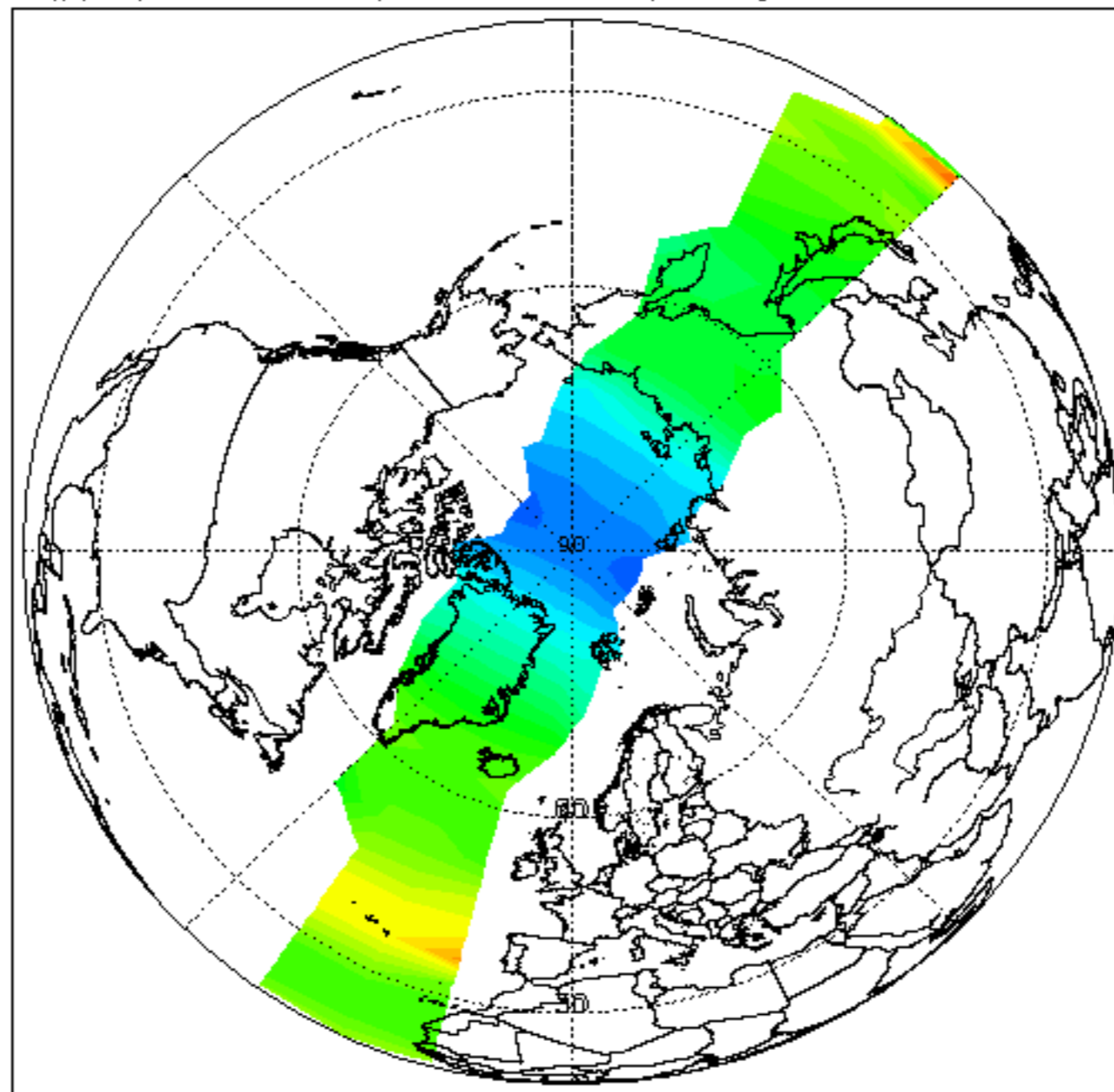
O<sub>3</sub> (ppm) at: 410 K (16km, 100hPa). Daily mean: 31-OCT-2011



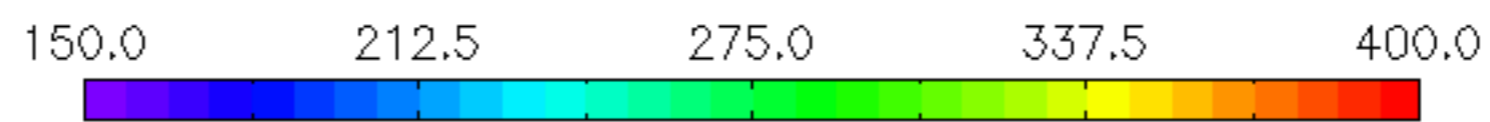
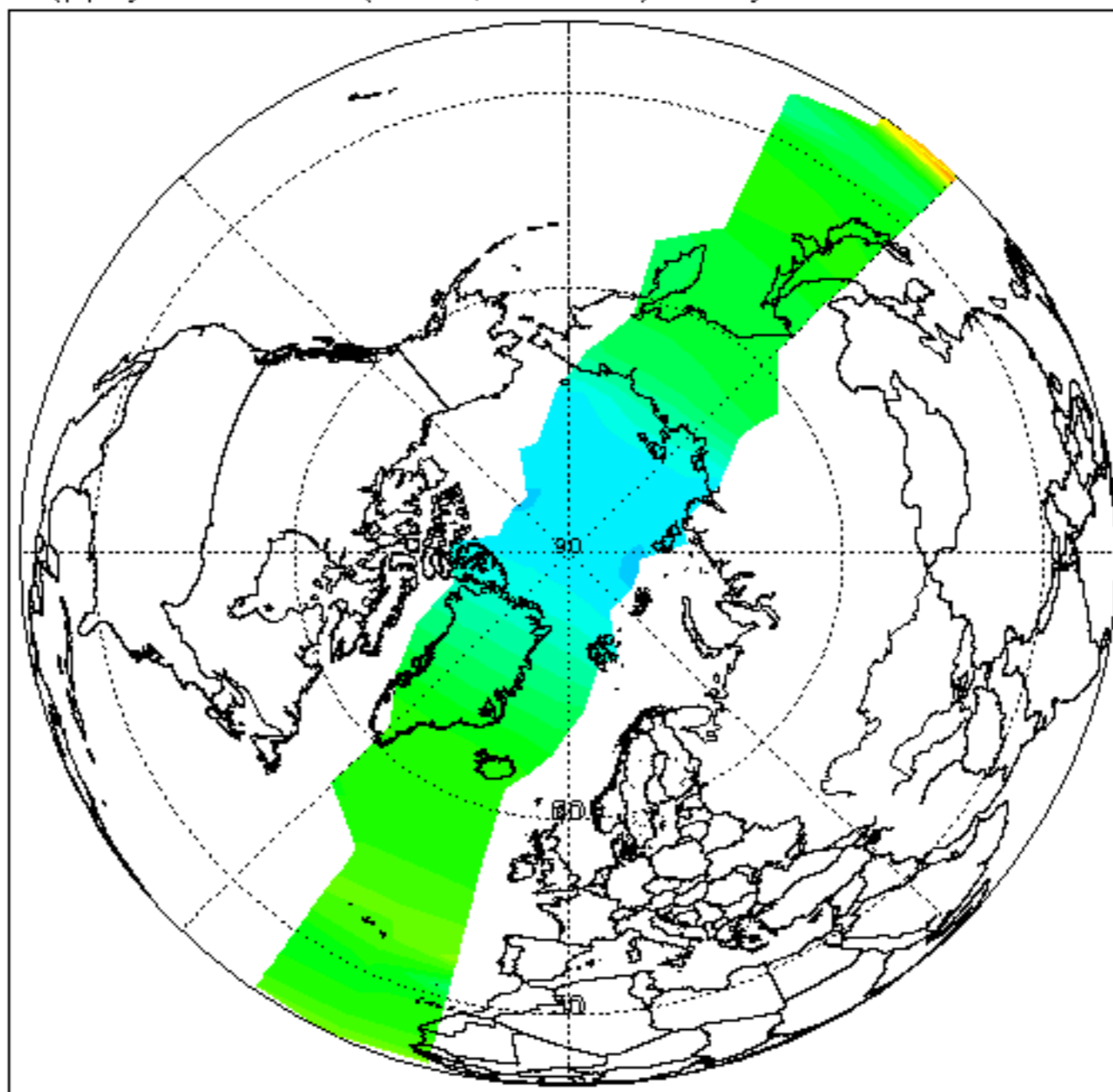
HNO<sub>3</sub> (ppb) at: 410 K (16km, 100hPa). Daily mean: 31-OCT-2011



CH<sub>4</sub> (ppm) at: 410 K (16km, 100hPa). Daily mean: 31-OCT-2011

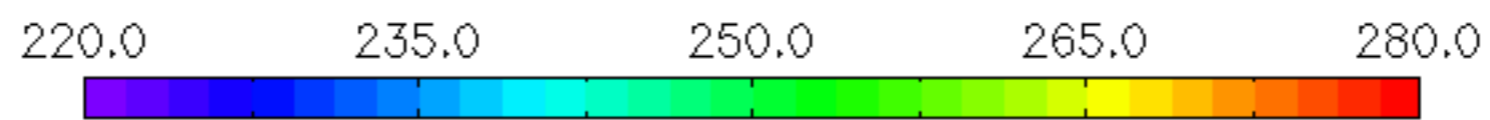
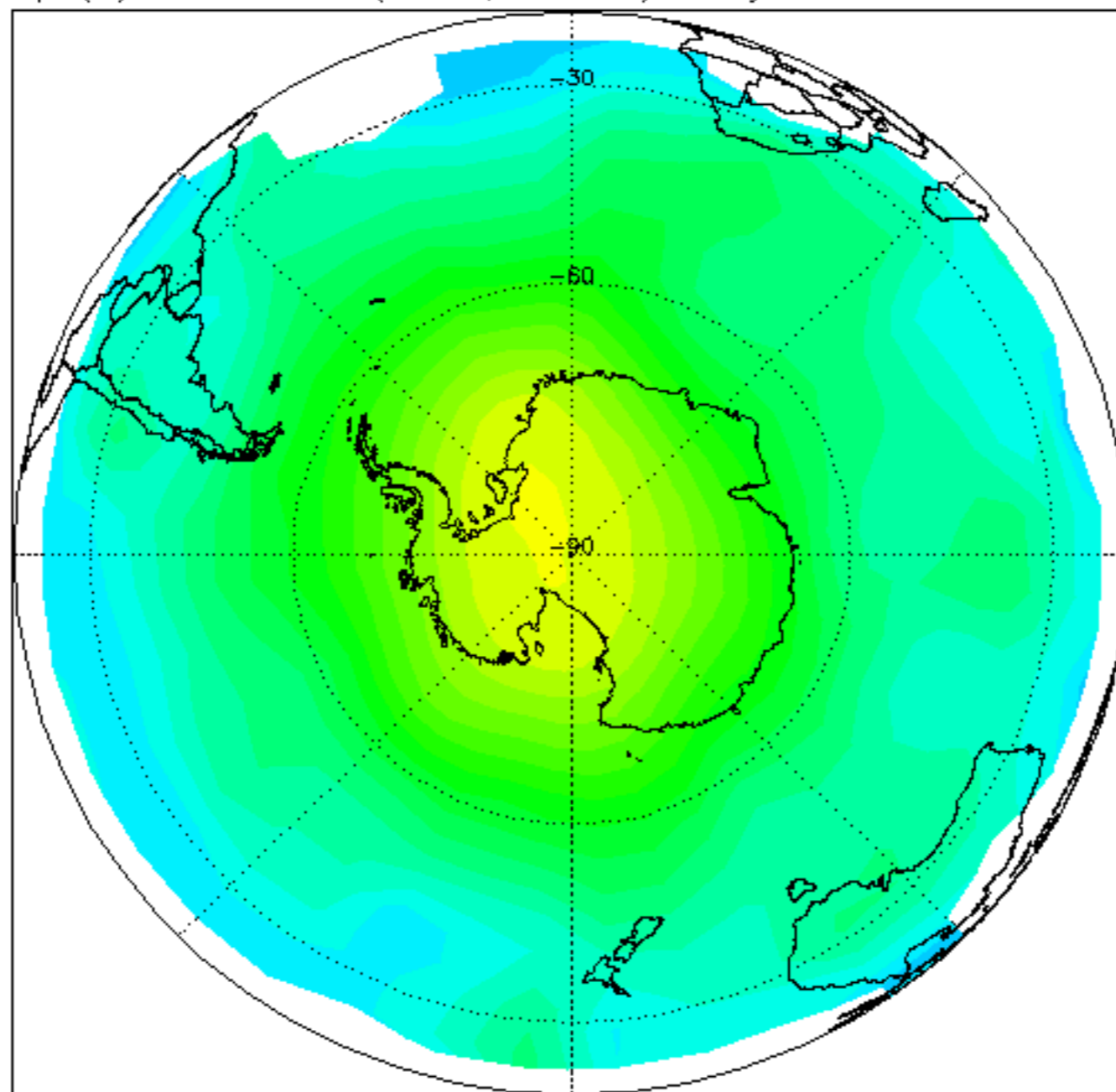


N2O (ppb) at: 410 K (16km, 100hPa). Daily mean: 31-OCT-2011

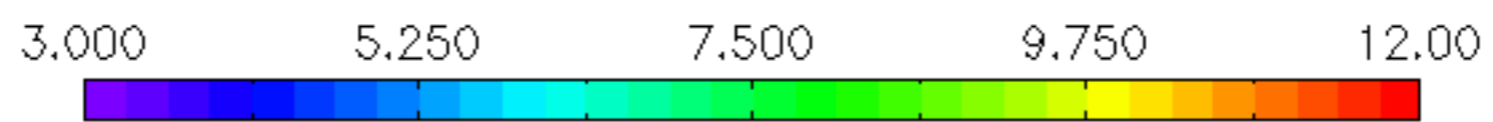
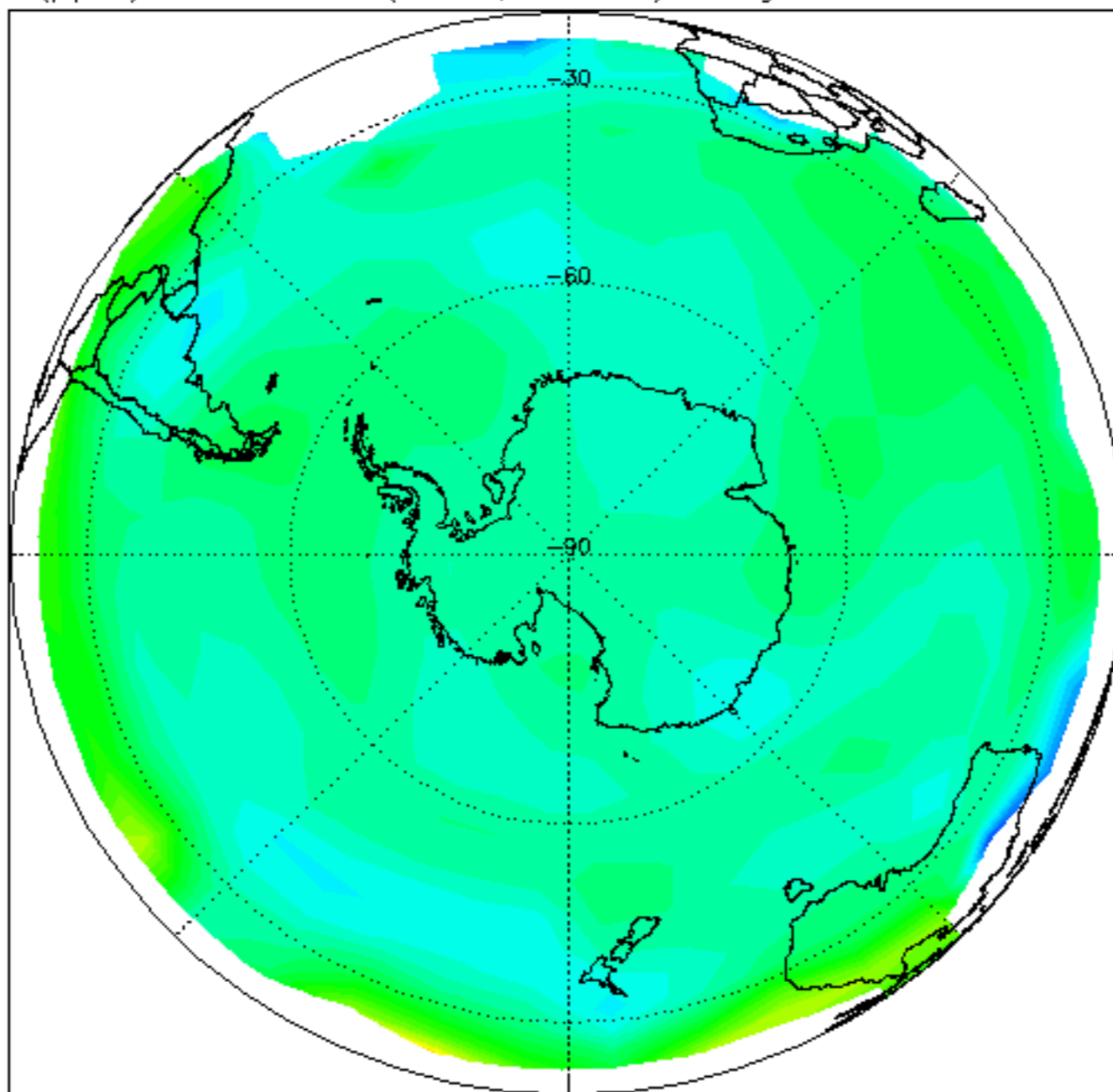




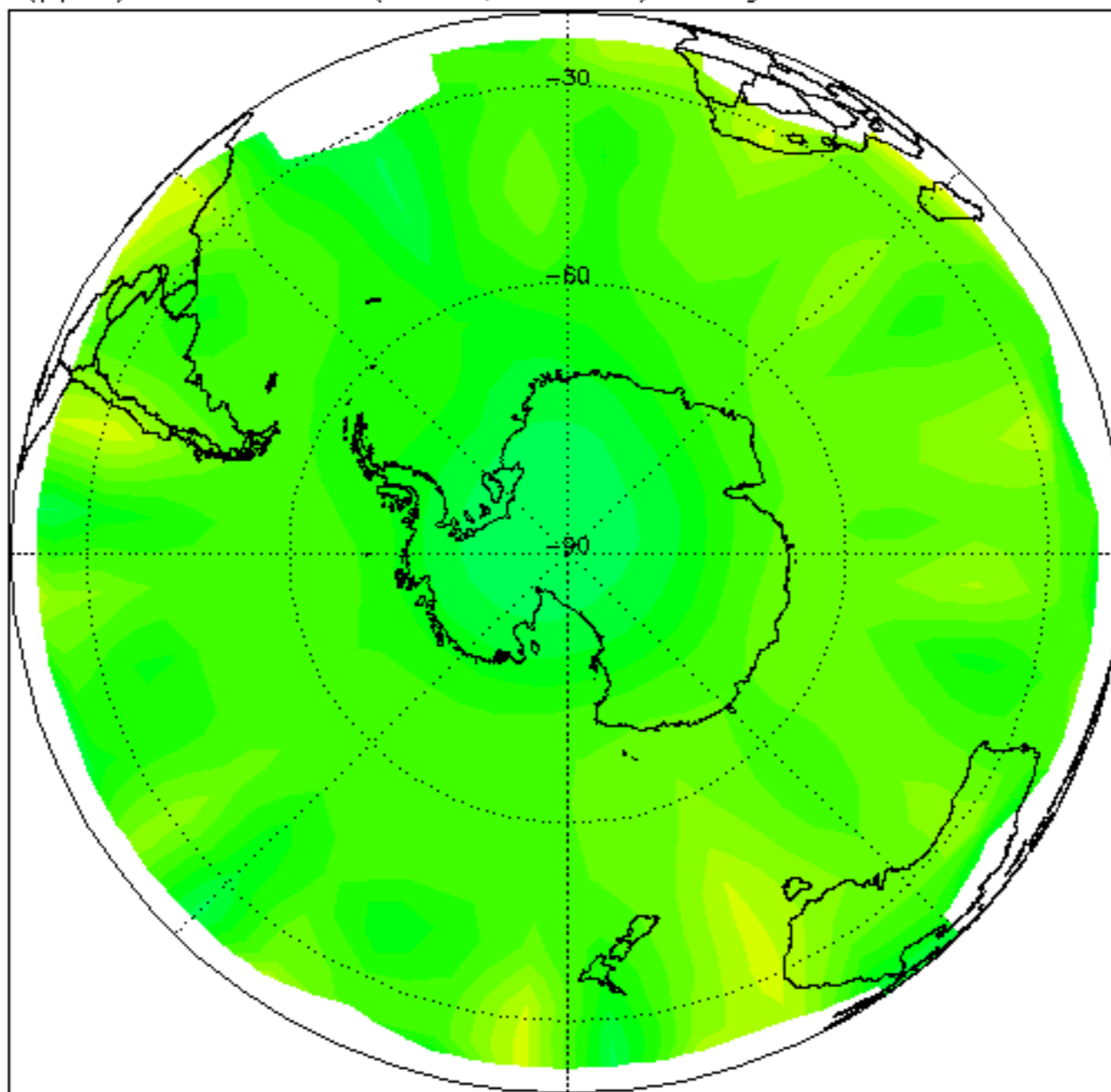
Temp (K) at: 2700 K (60km, 0.2hPa). Daily mean: 31-OCT-2011



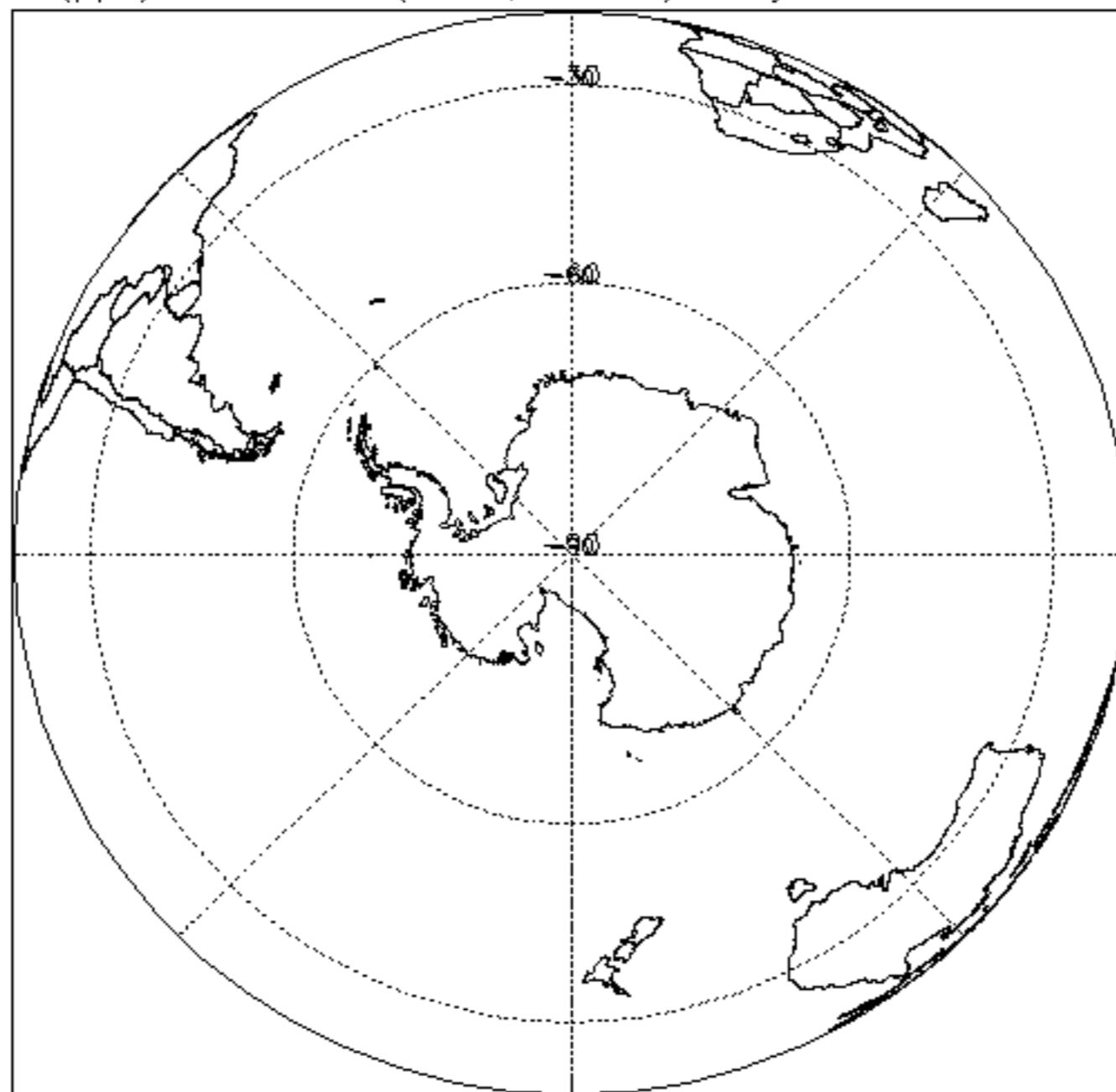
H<sub>2</sub>O (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 31-OCT-2011



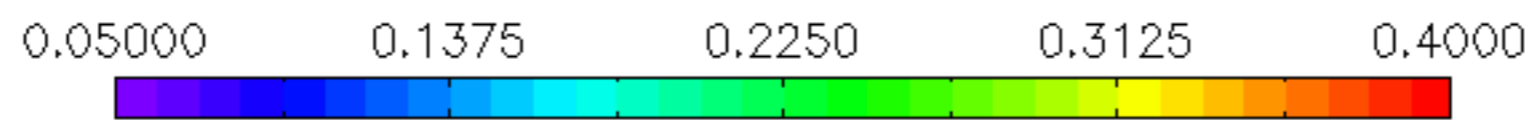
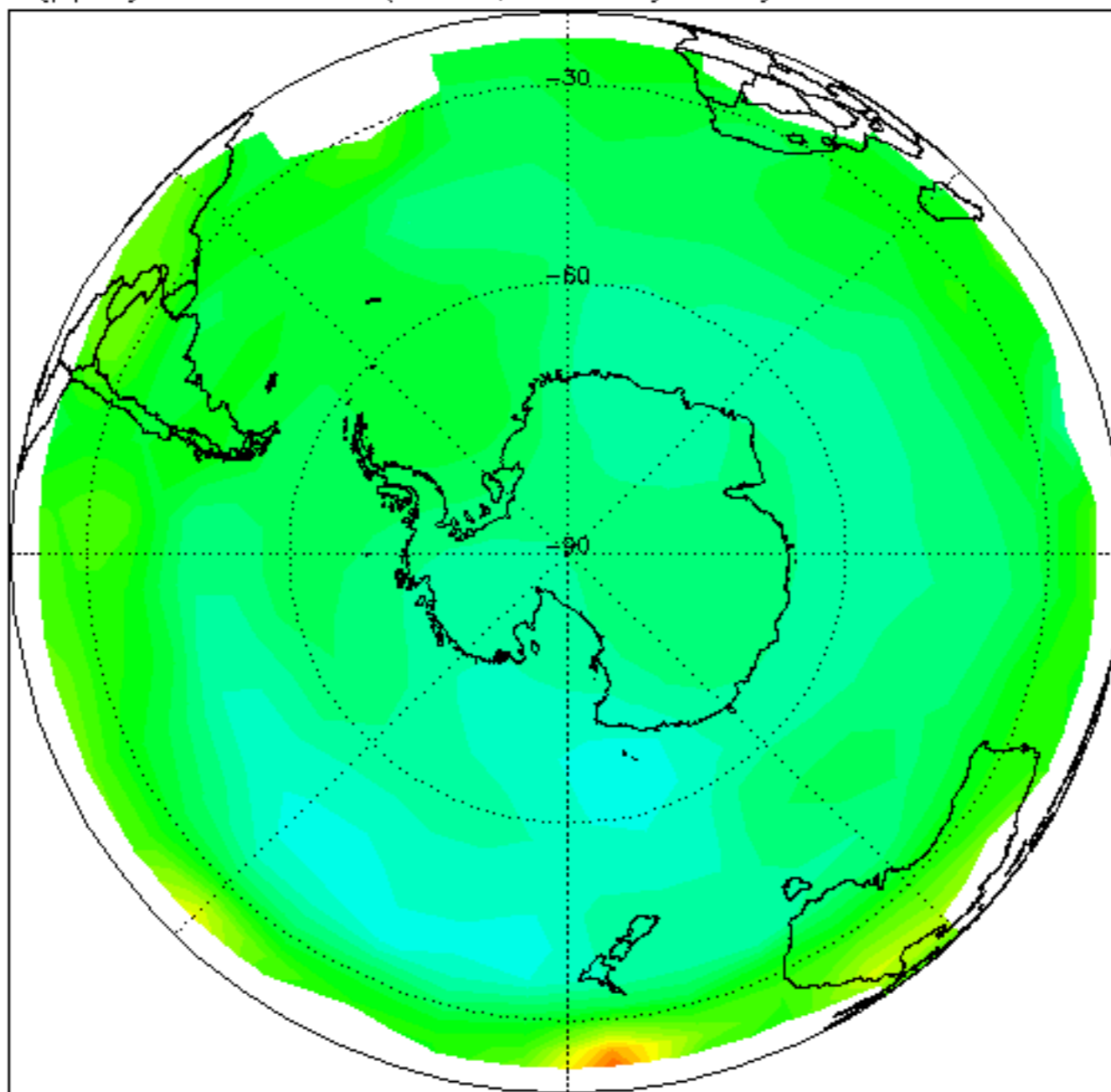
O3 (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 31-OCT-2011



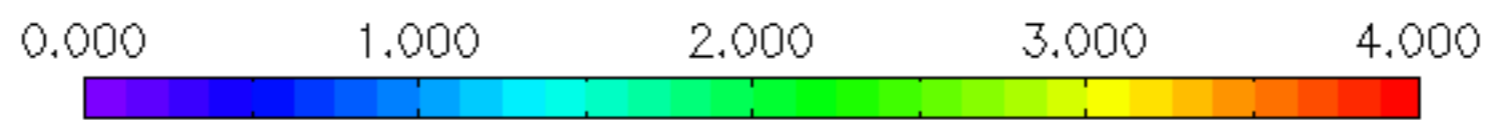
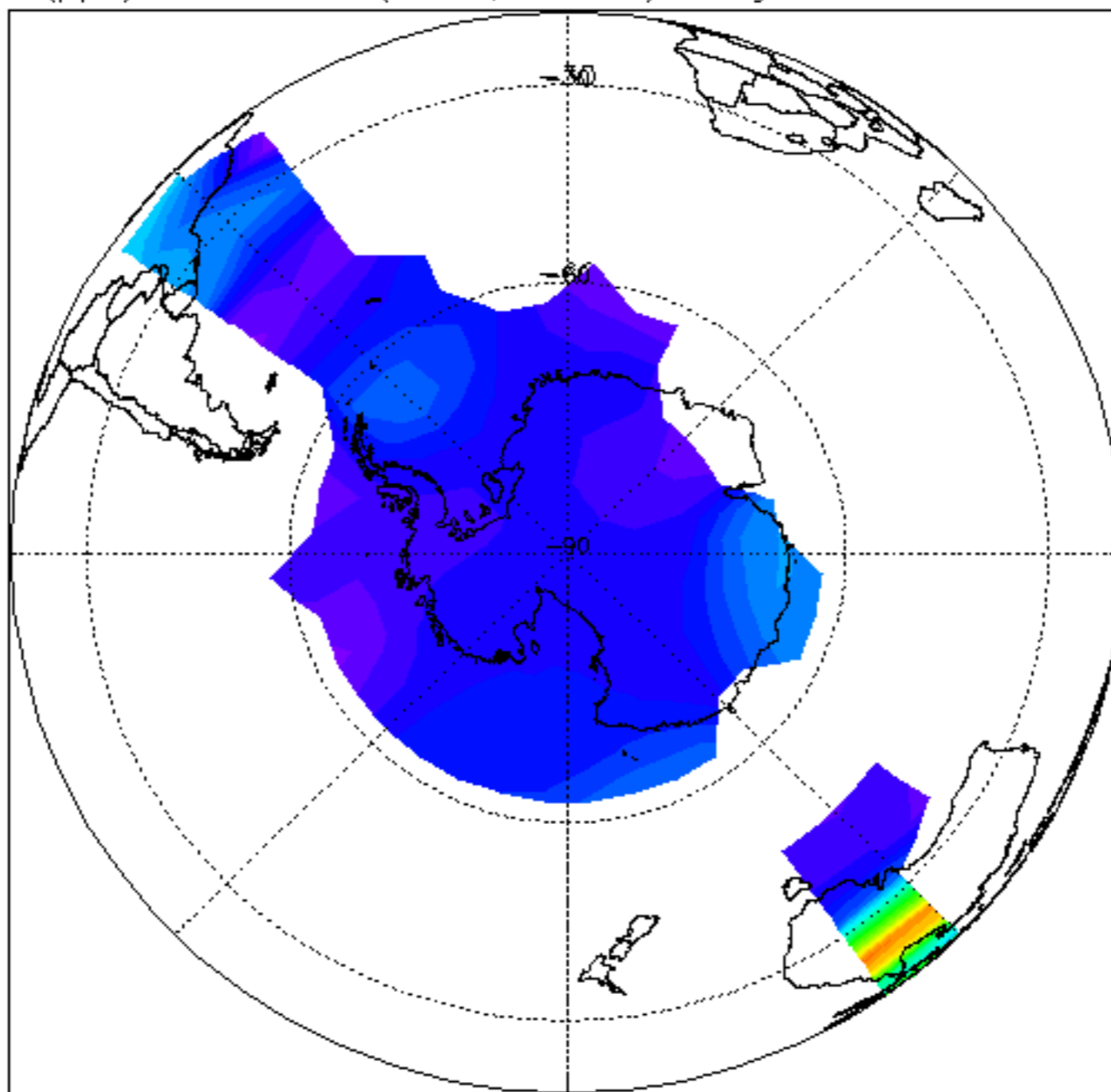
HNO<sub>3</sub> (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 31-OCT-2011



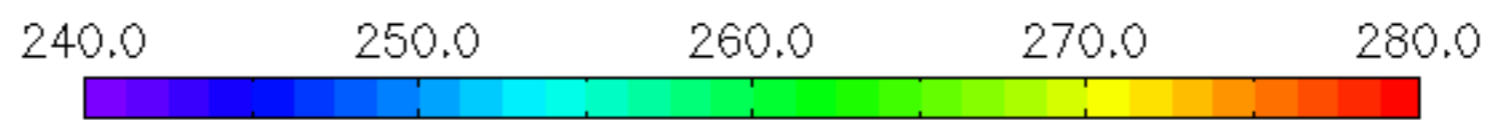
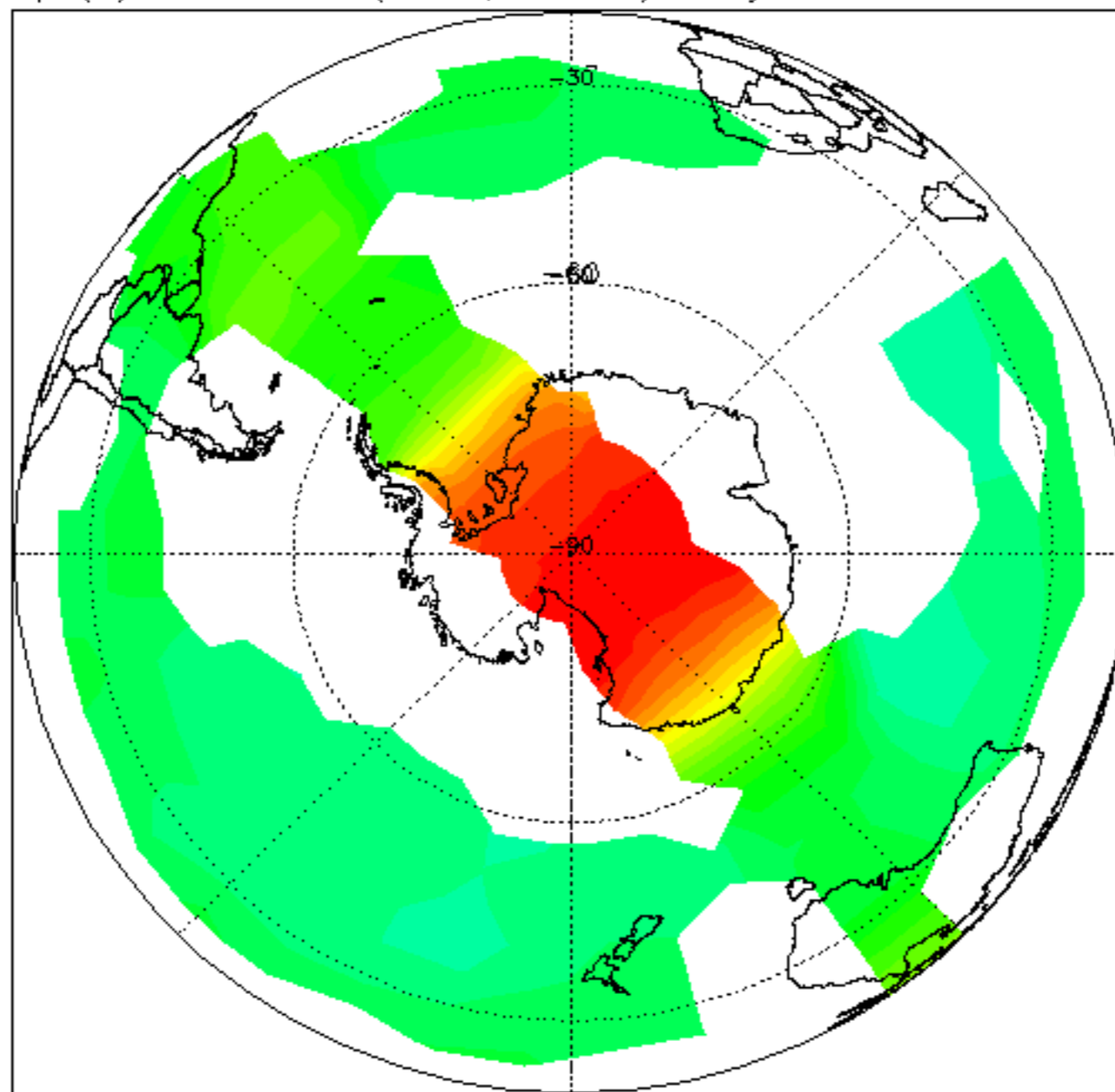
CH<sub>4</sub> (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 31-OCT-2011



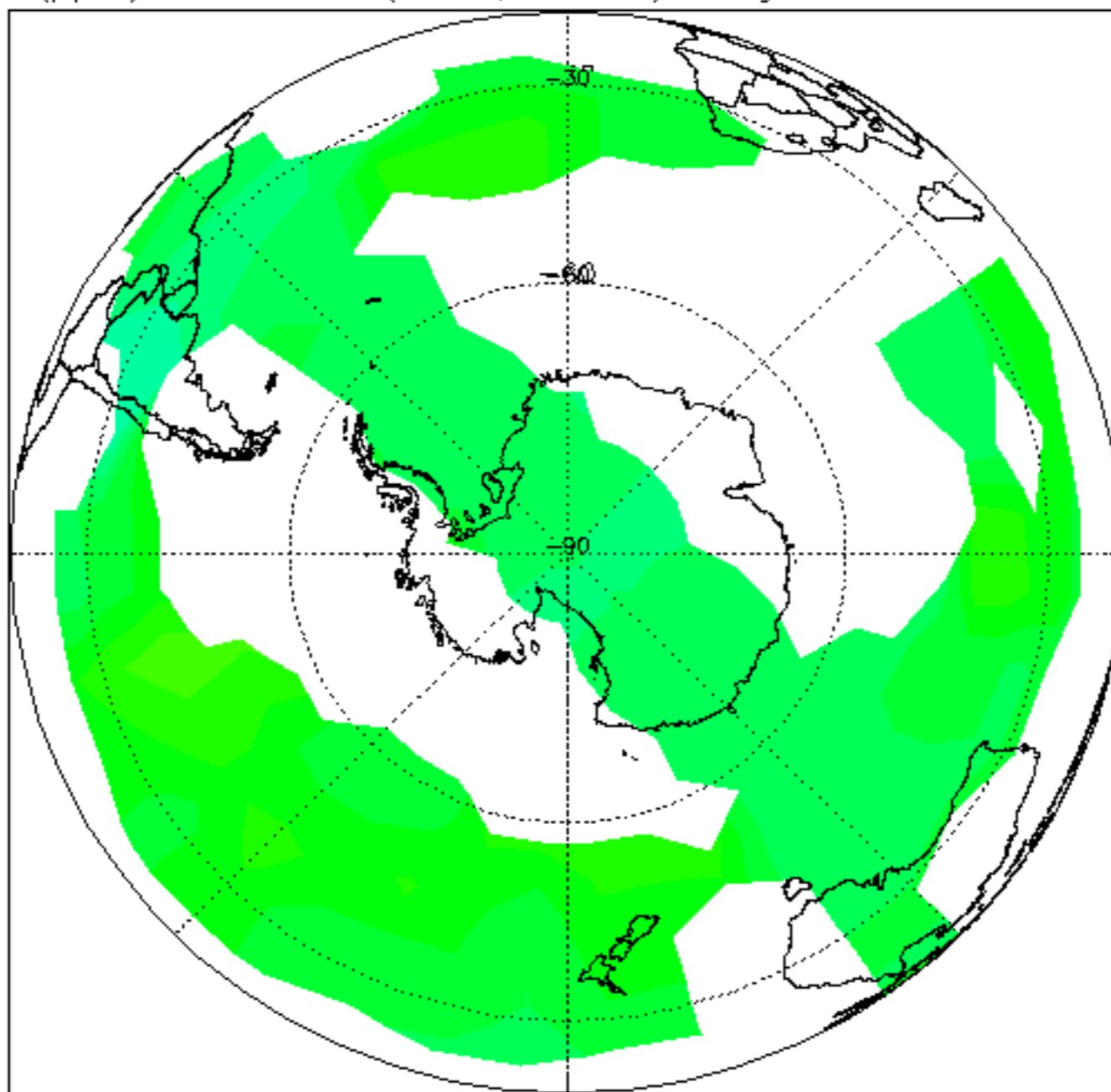
N<sub>2</sub>O (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 31-OCT-2011



Temp (K) at: 1700 K (45km, 1.5hPa). Daily mean: 31-OCT-2011

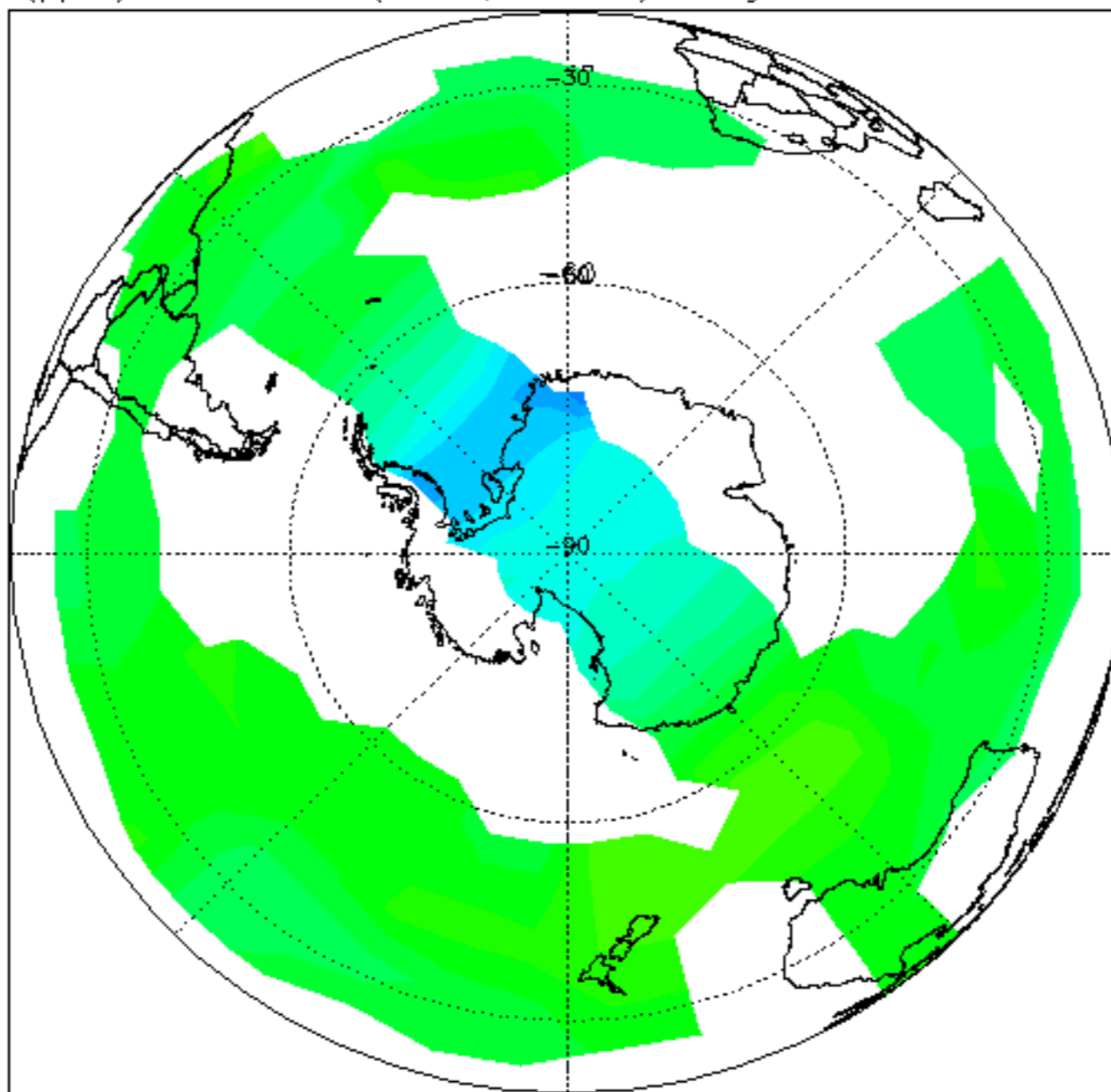


H<sub>2</sub>O (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 31-OCT-2011

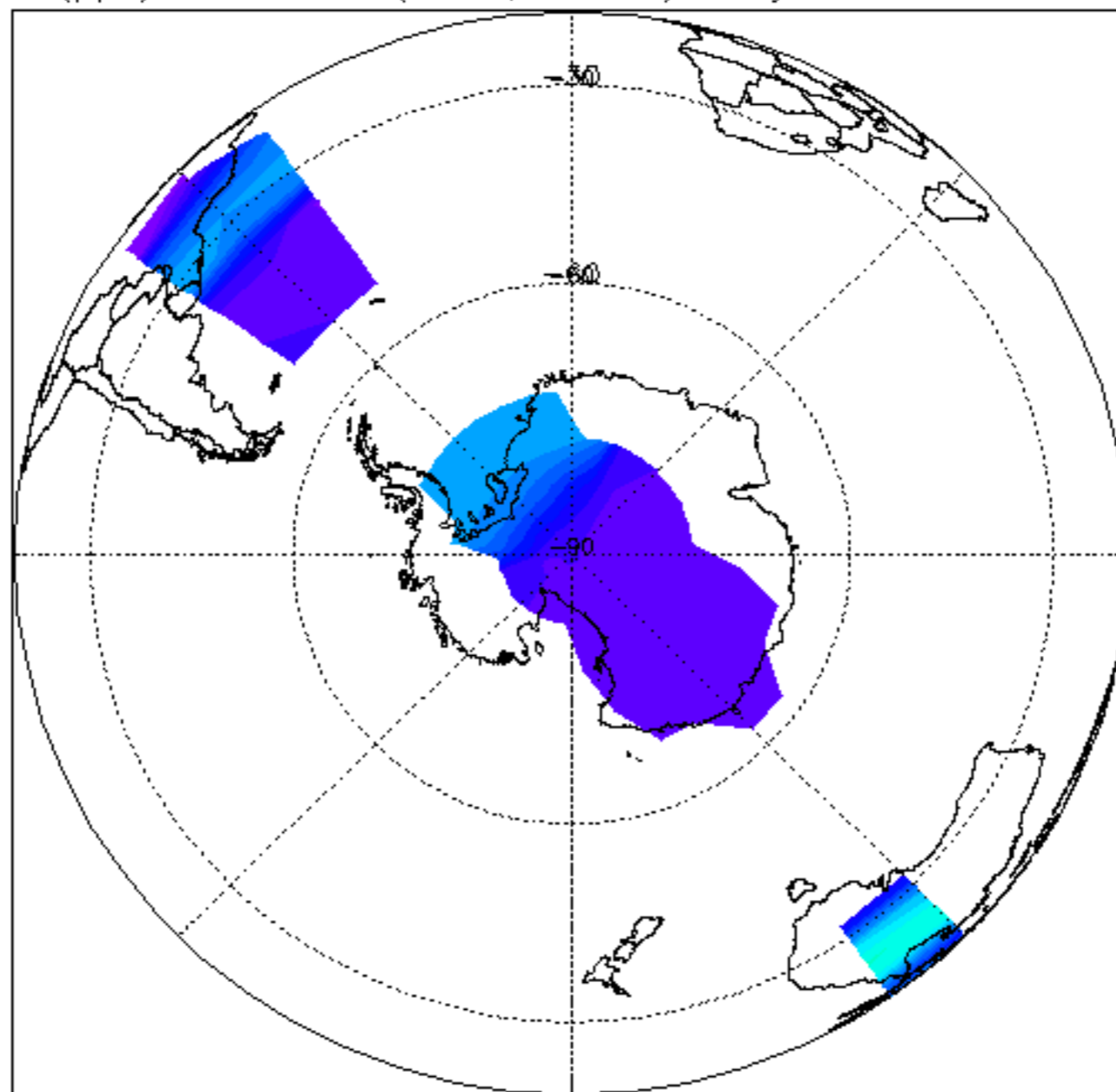




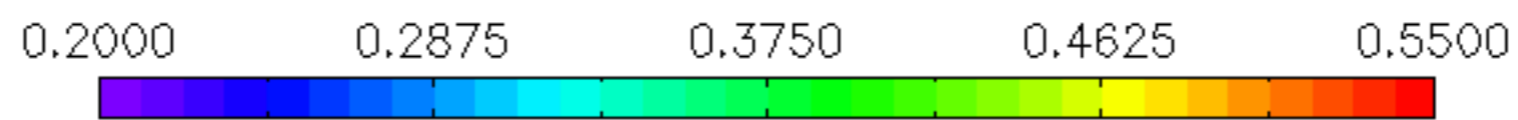
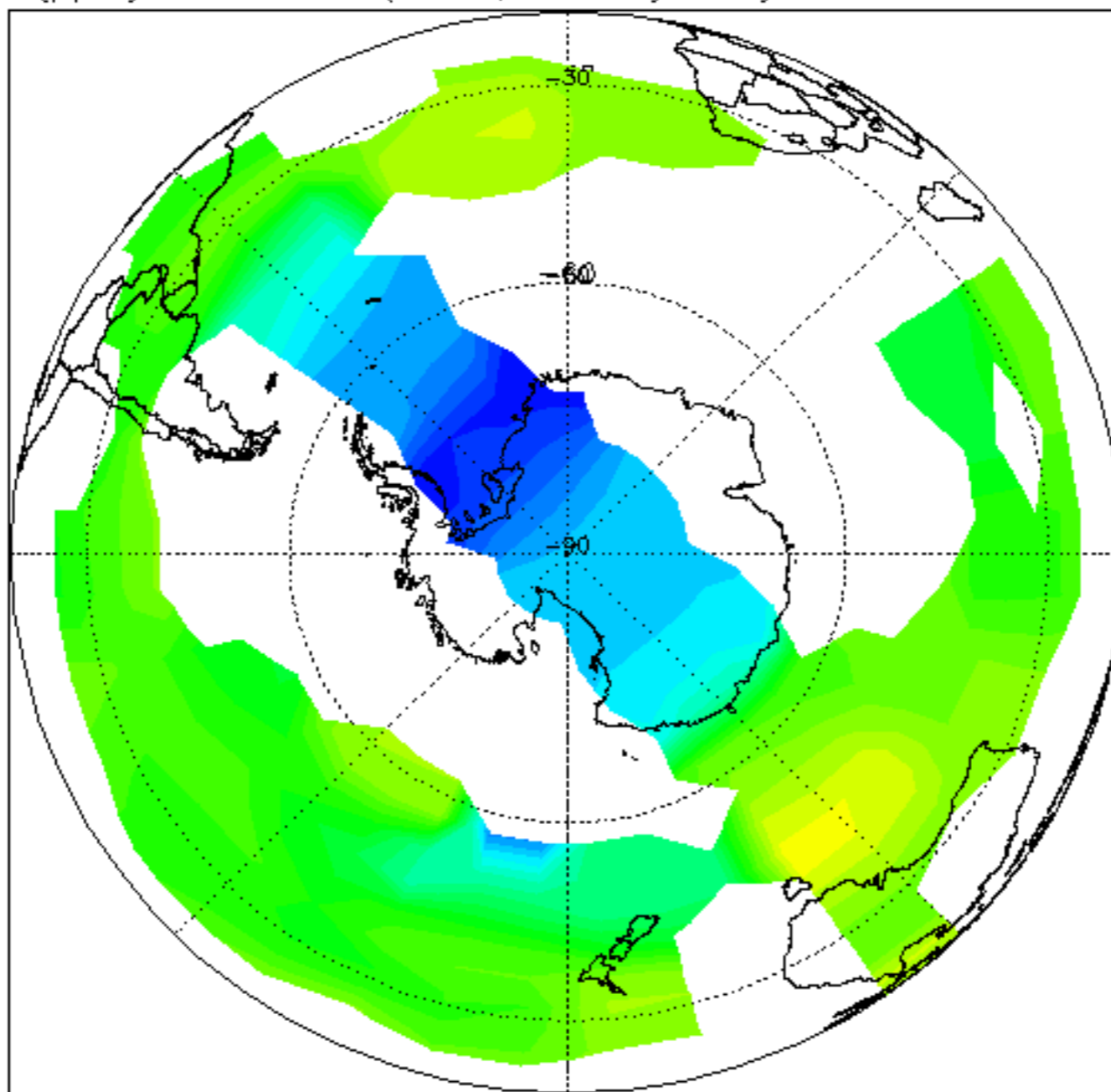
O<sub>3</sub> (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 31-OCT-2011



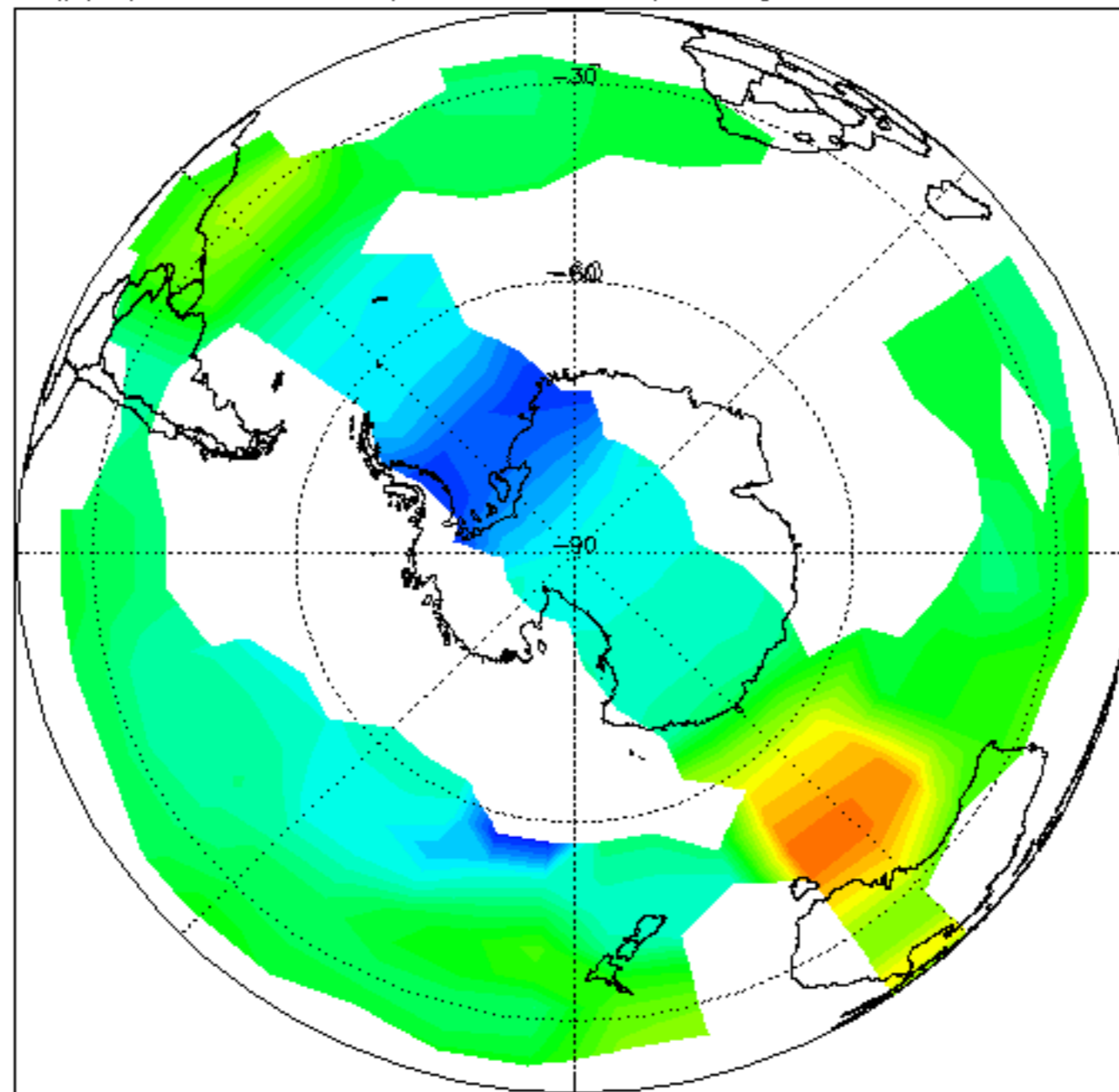
HNO<sub>3</sub> (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 31-OCT-2011



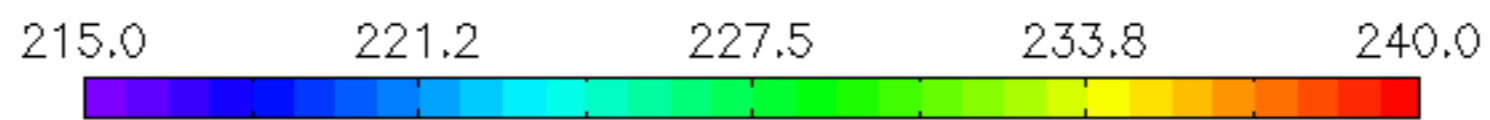
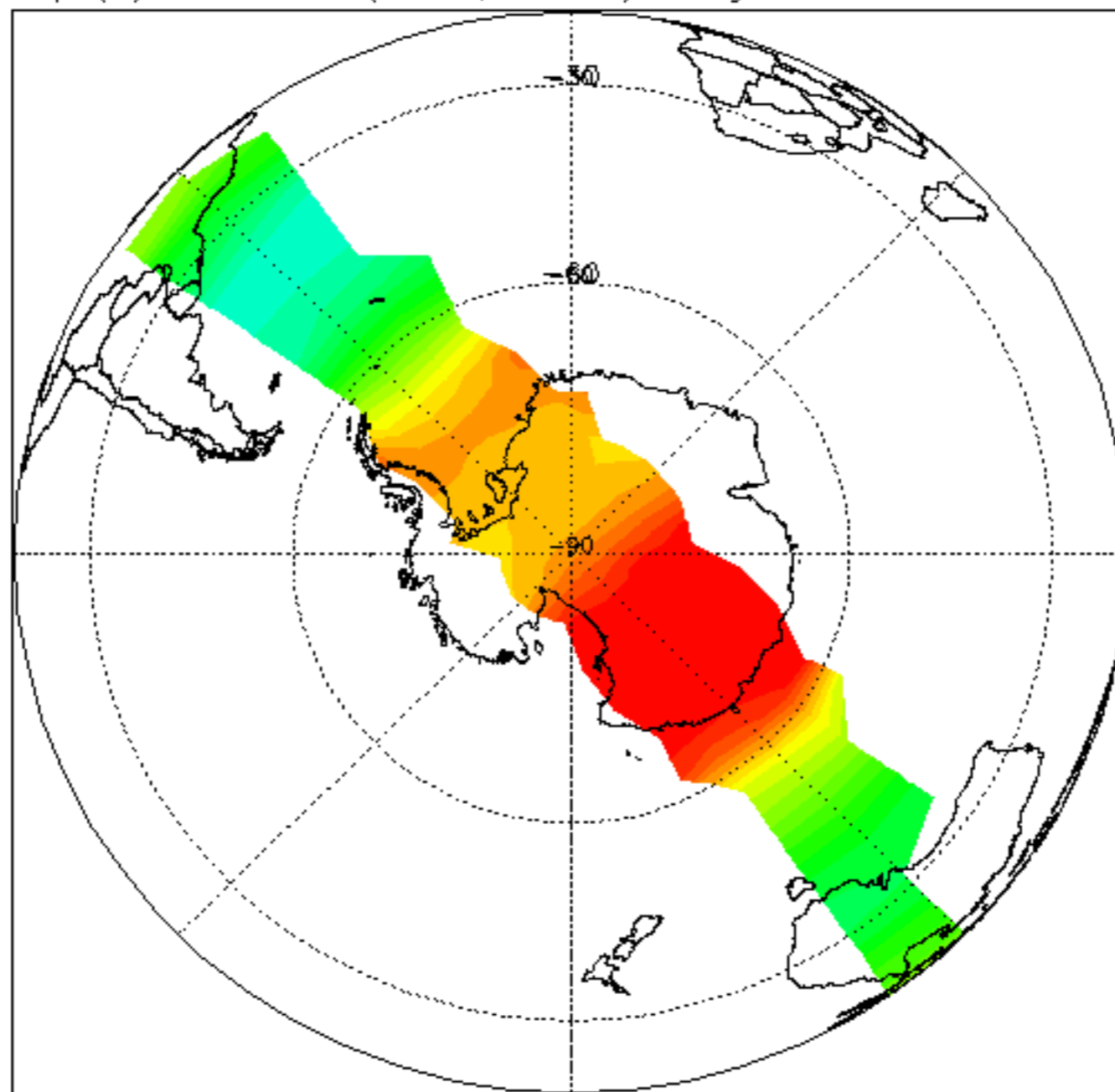
CH<sub>4</sub> (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 31-OCT-2011



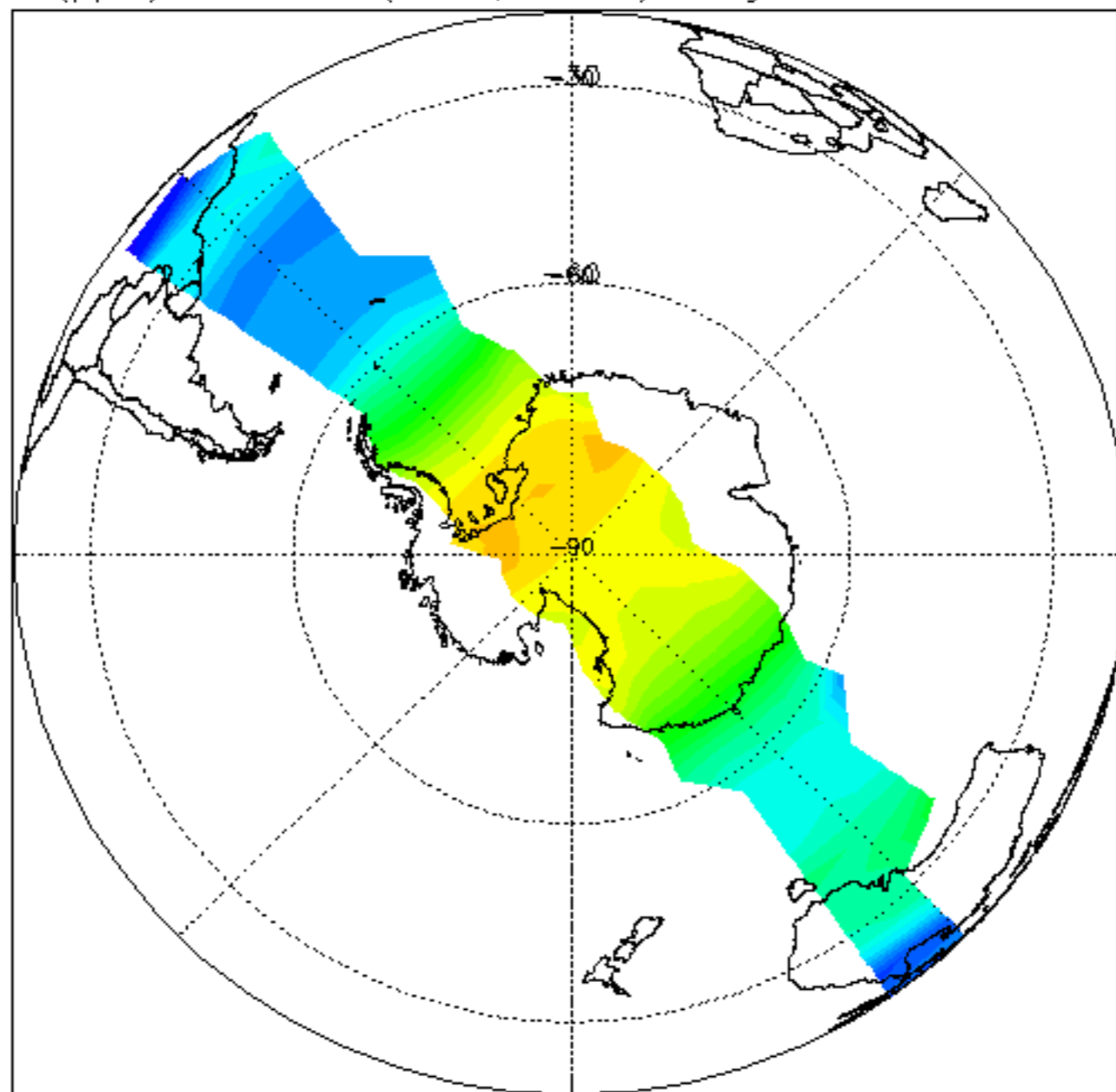
N<sub>2</sub>O (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 31-OCT-2011



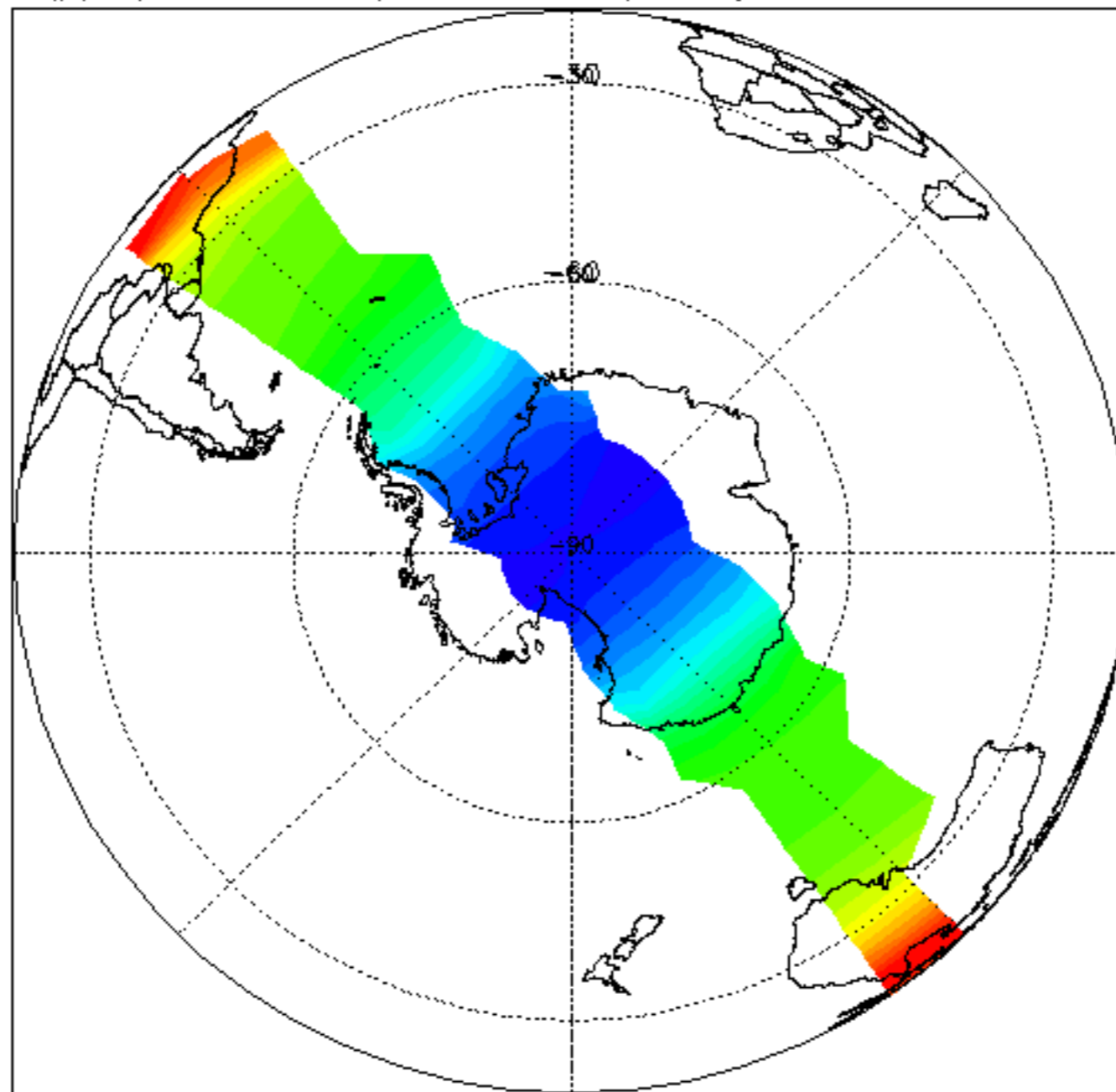
Temp (K) at: 850 K (32km, 10hPa). Daily mean: 31-OCT-2011



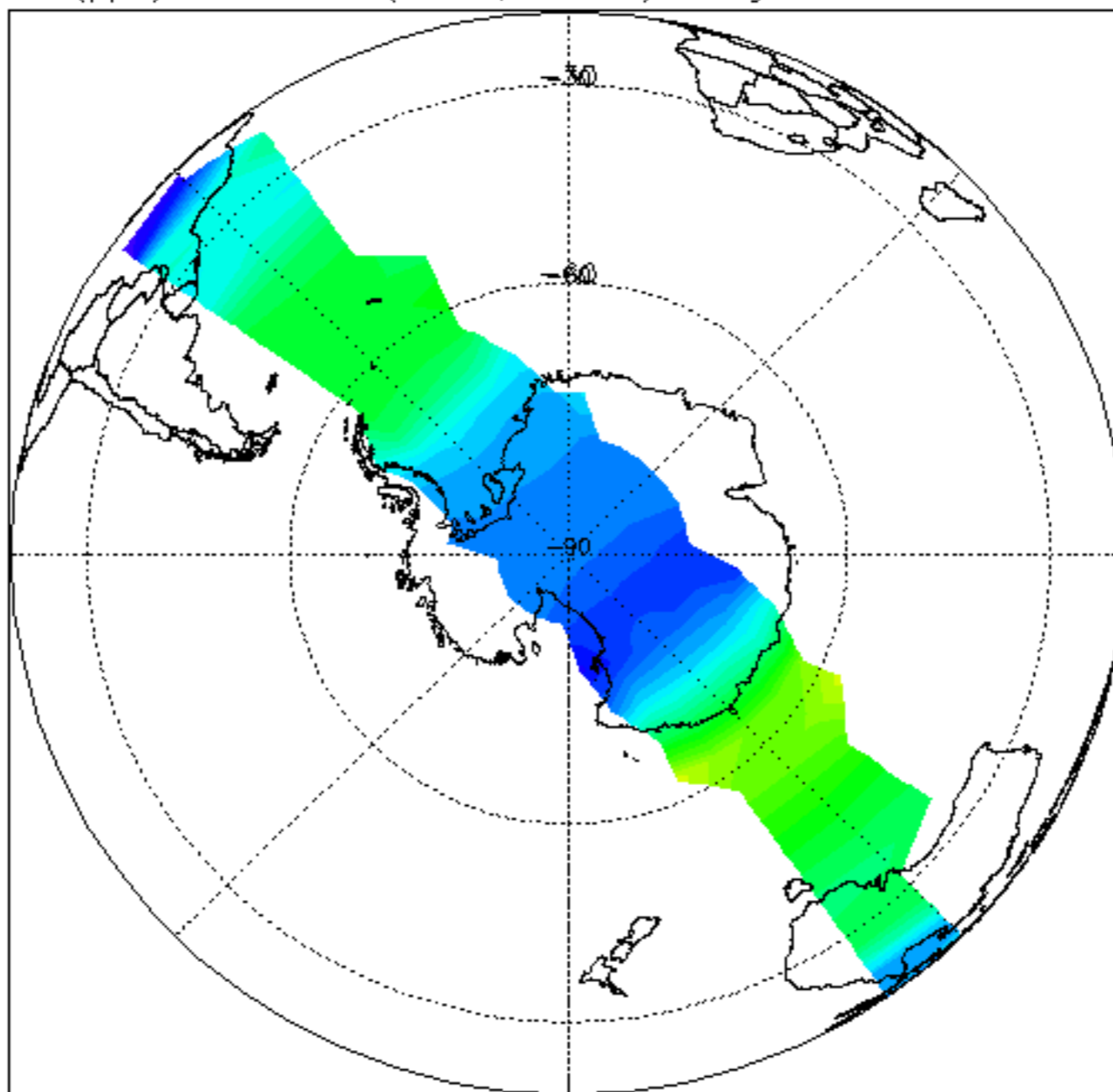
H<sub>2</sub>O (ppm) at: 850 K (32km, 10hPa). Daily mean: 31-OCT-2011



O<sub>3</sub> (ppm) at: 850 K (32km, 10hPa). Daily mean: 31-OCT-2011

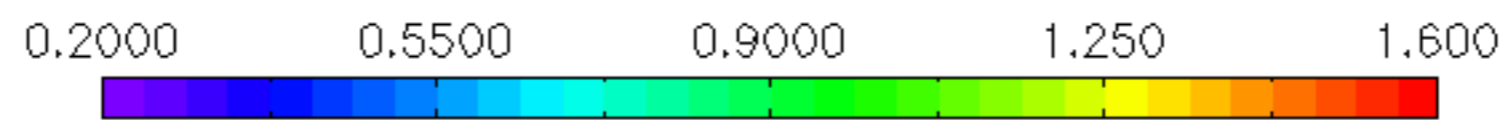
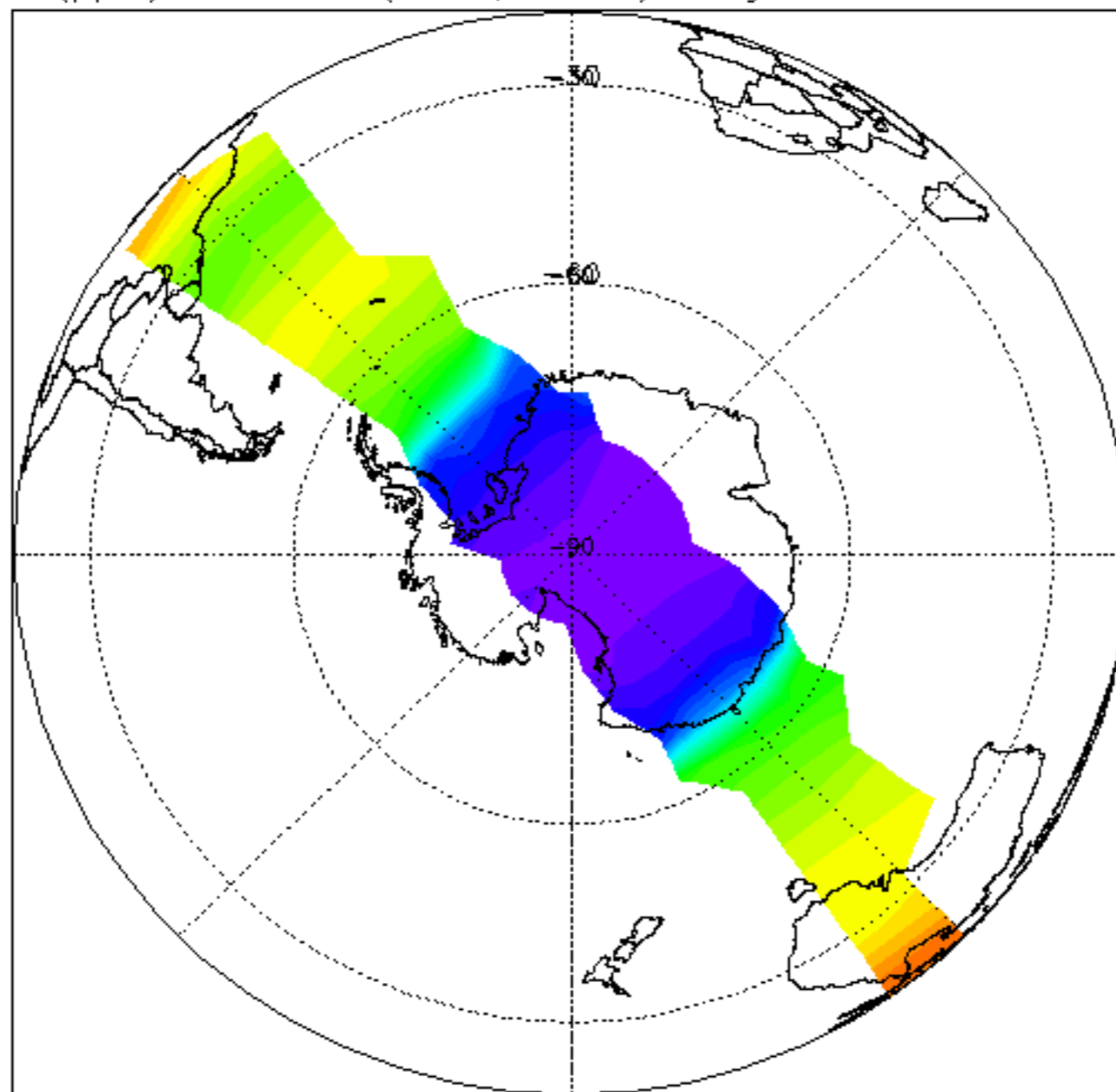


HN03 (ppb) at: 850 K (32km, 10hPa). Daily mean: 31-OCT-2011

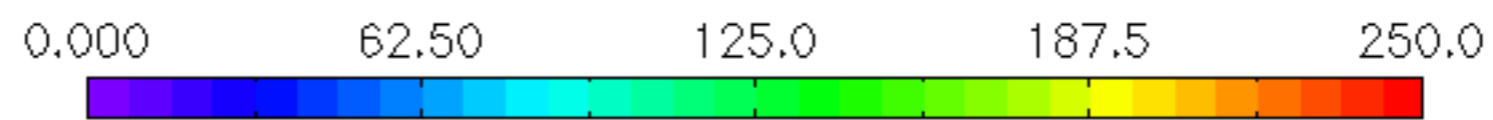
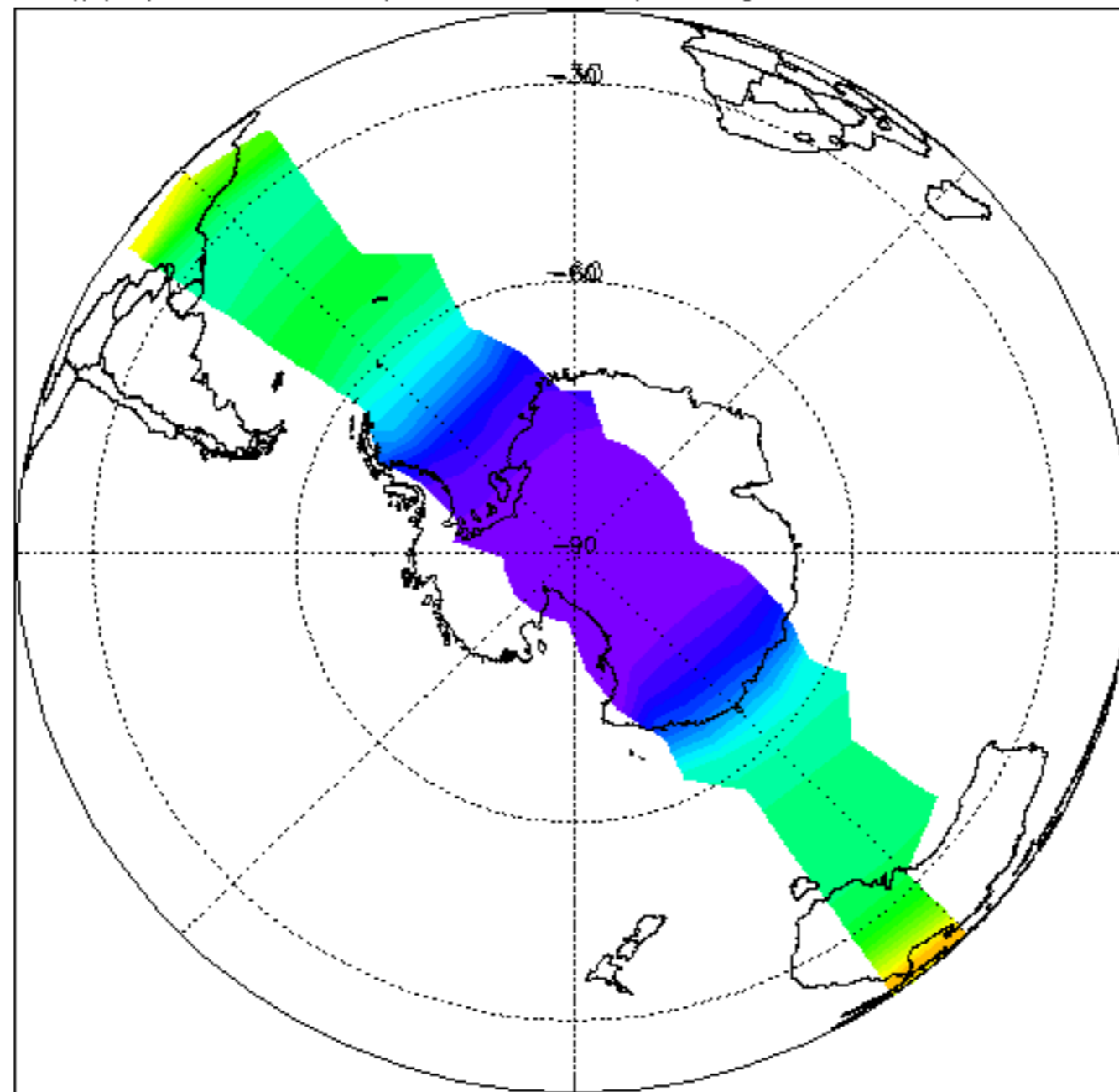




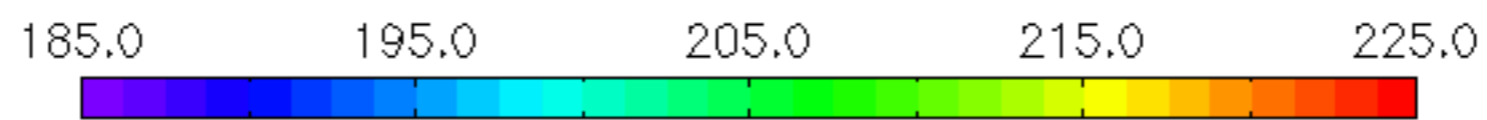
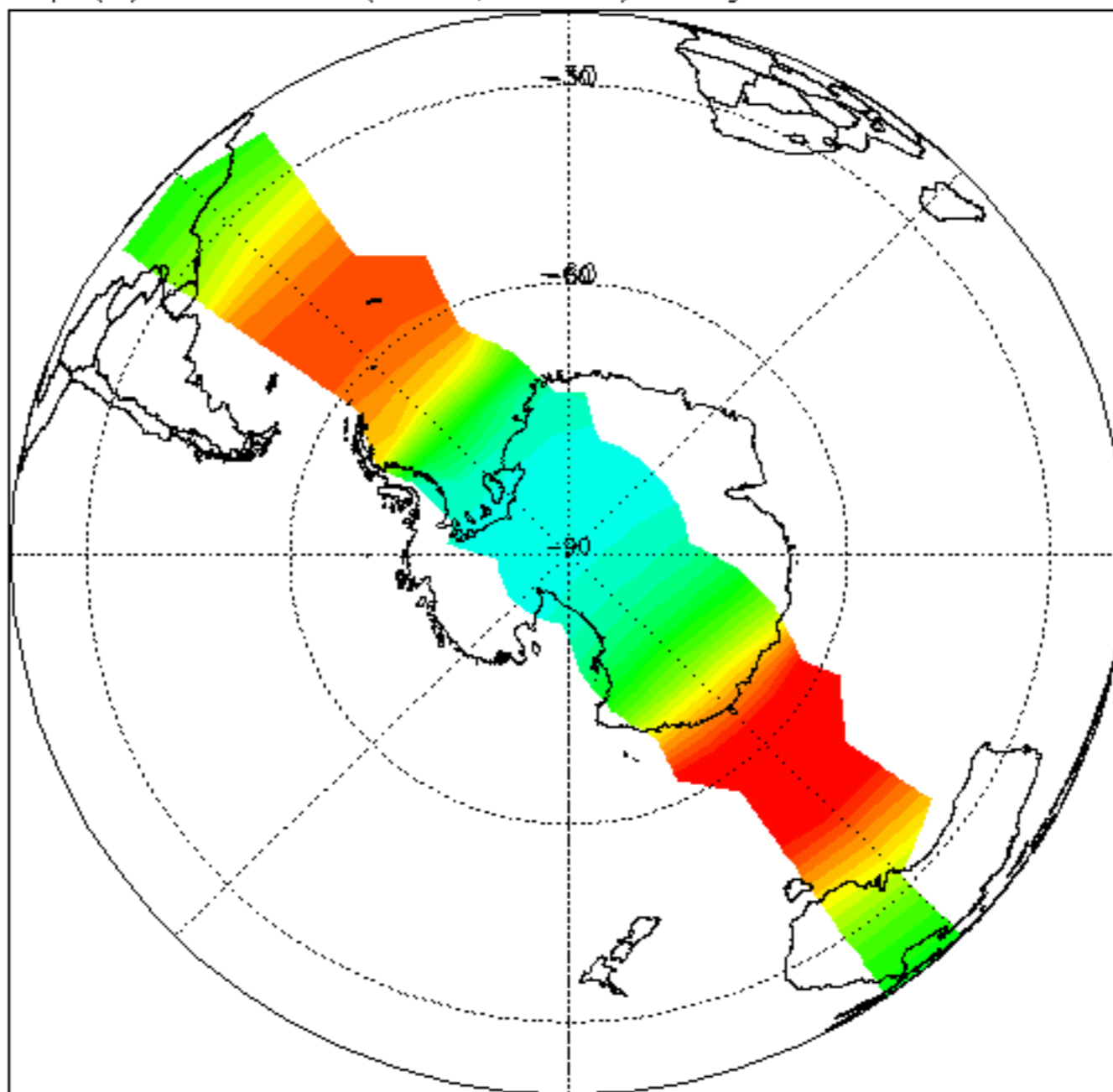
CH<sub>4</sub> (ppm) at: 850 K (32km, 10hPa). Daily mean: 31-OCT-2011



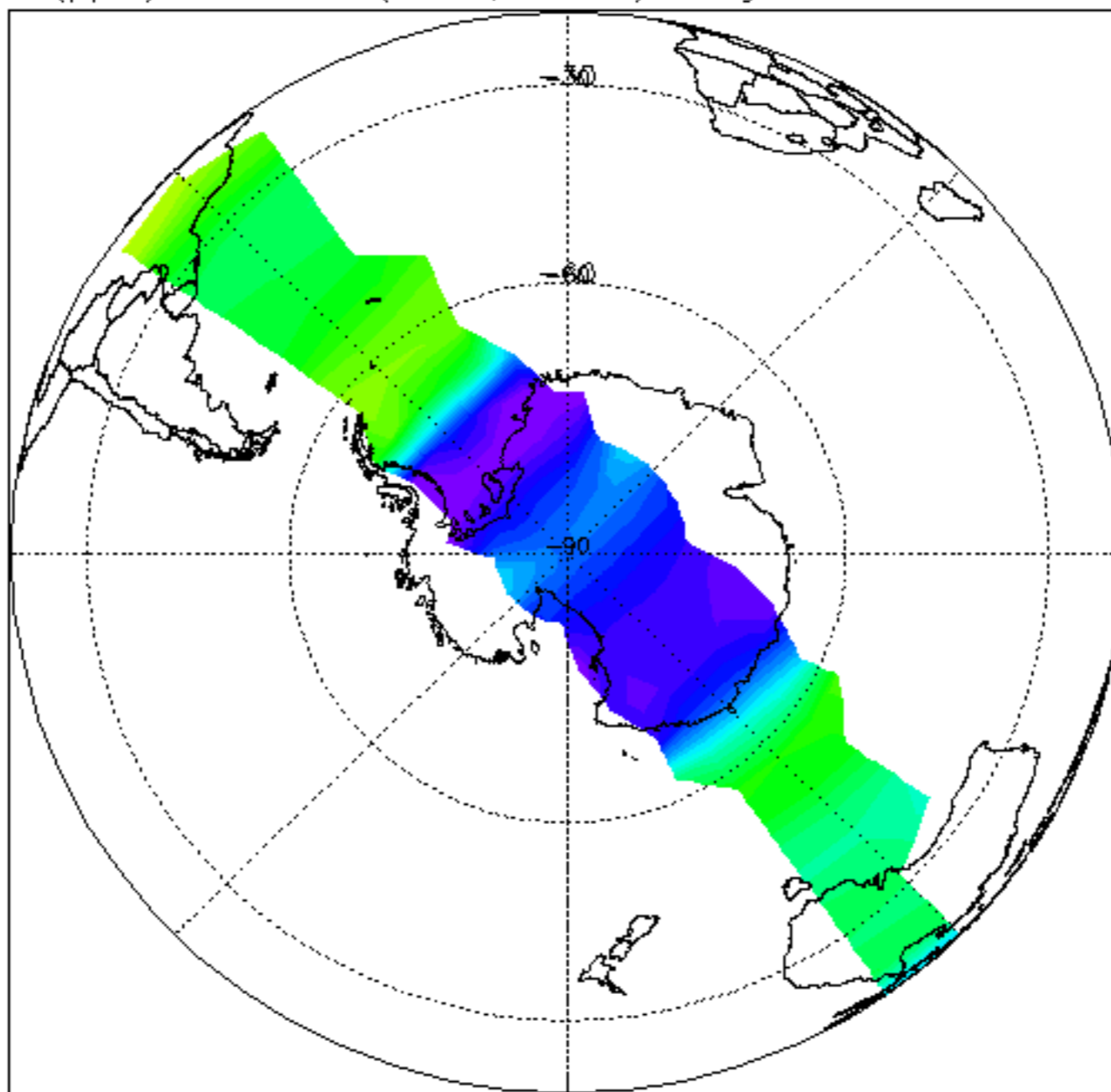
N<sub>2</sub>O (ppb) at: 850 K (32km, 10hPa). Daily mean: 31-OCT-2011



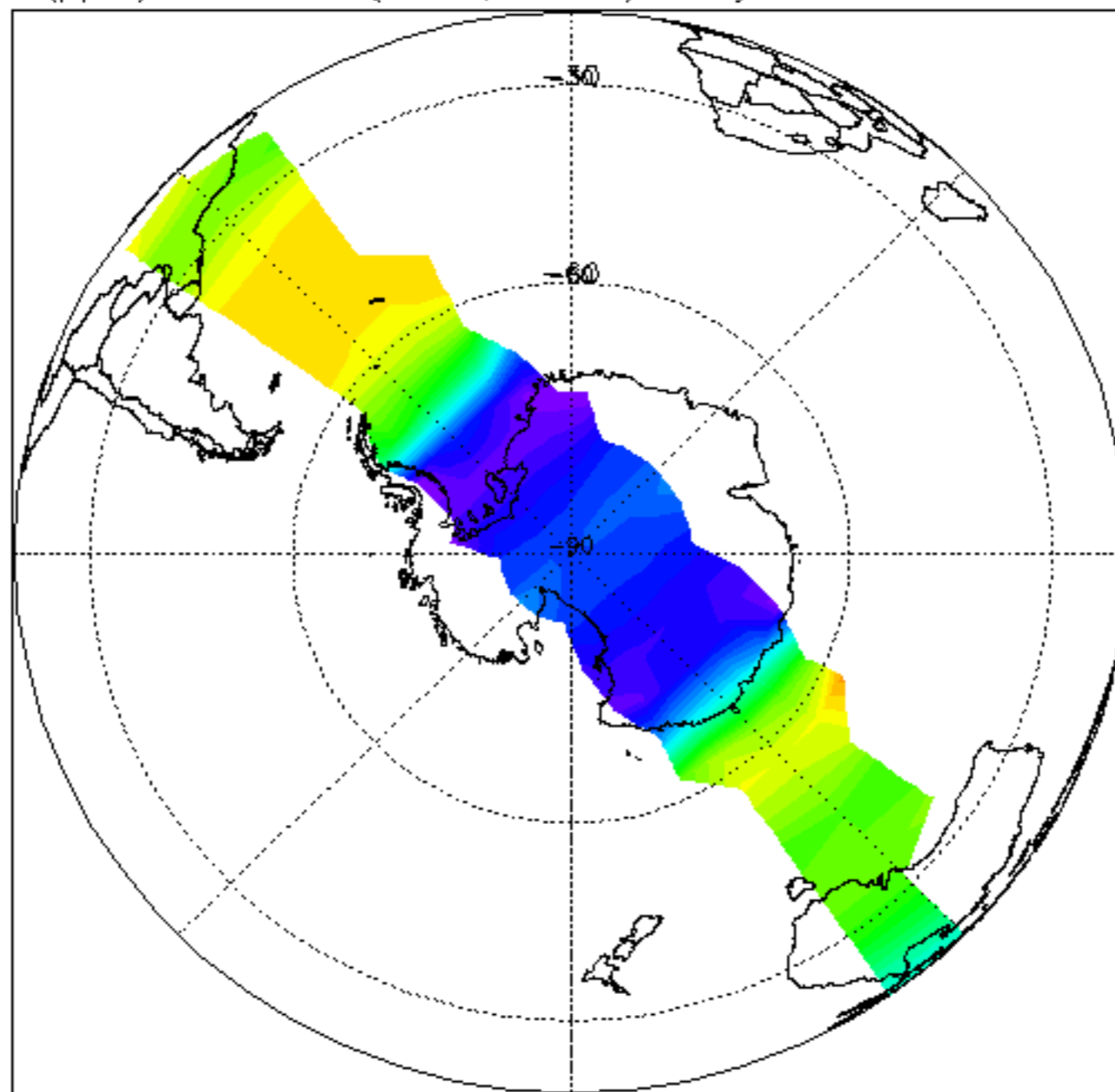
Temp (K) at: 490 K (19km, 55hPa). Daily mean: 31-OCT-2011



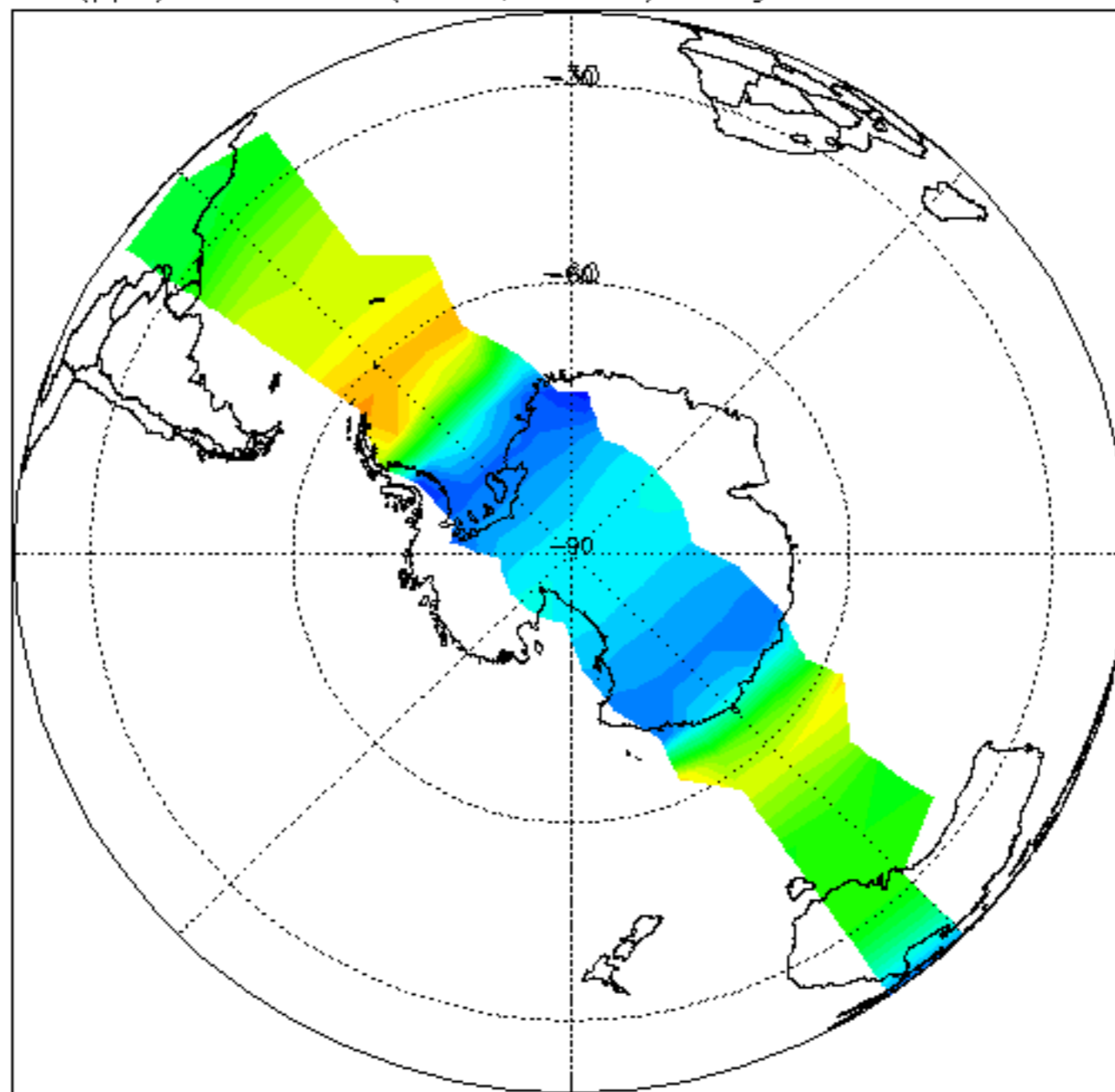
H<sub>2</sub>O (ppm) at: 490 K (19km, 55hPa). Daily mean: 31-OCT-2011



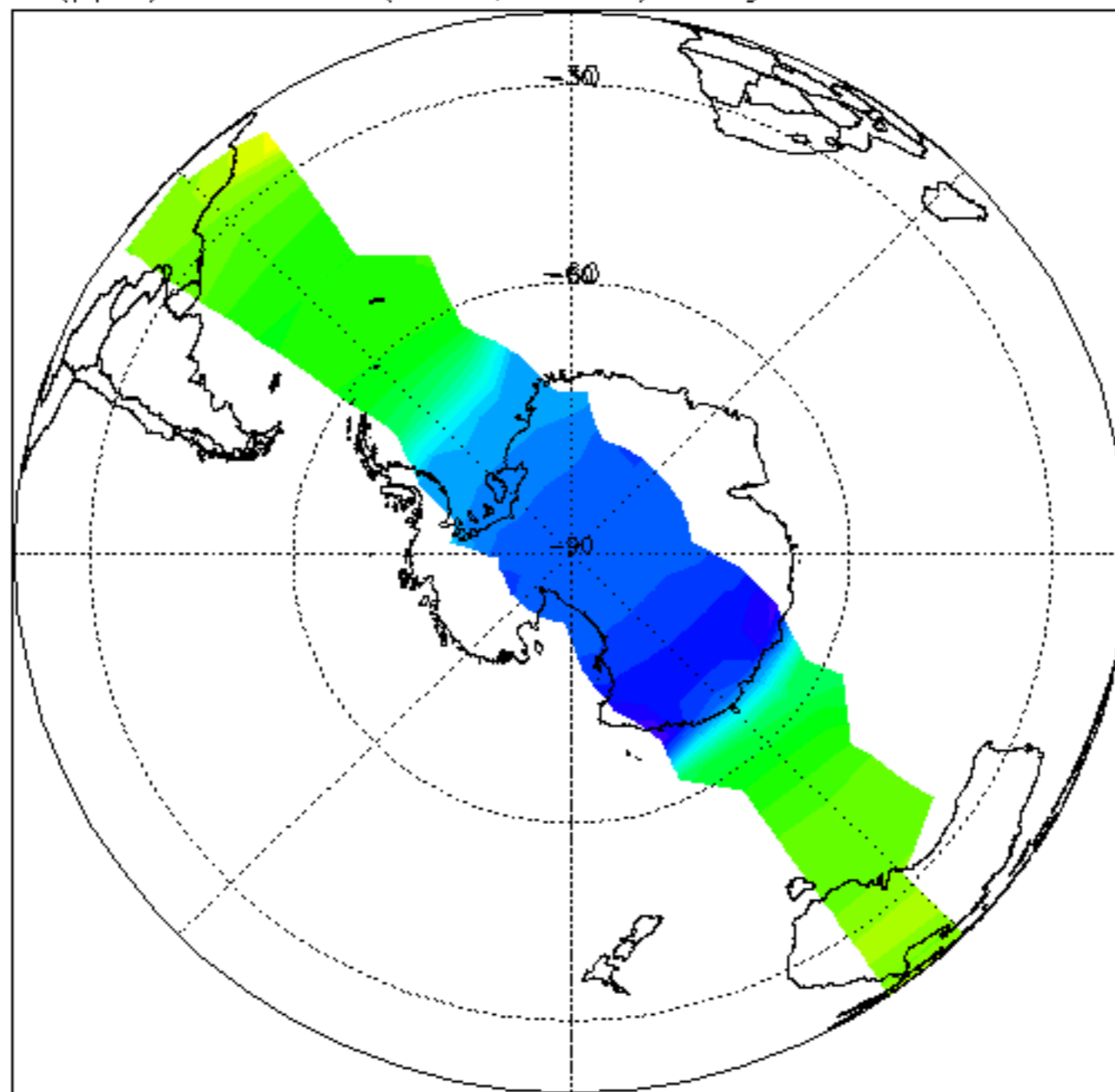
O<sub>3</sub> (ppm) at: 490 K (19km, 55hPa). Daily mean: 31-OCT-2011



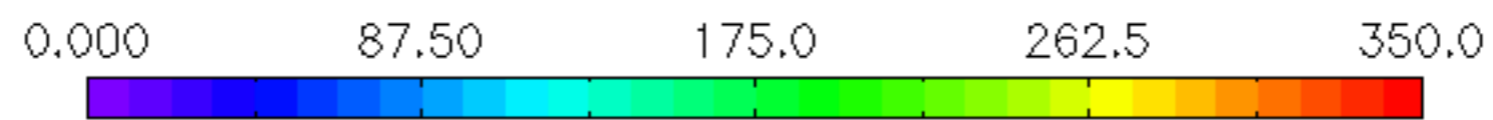
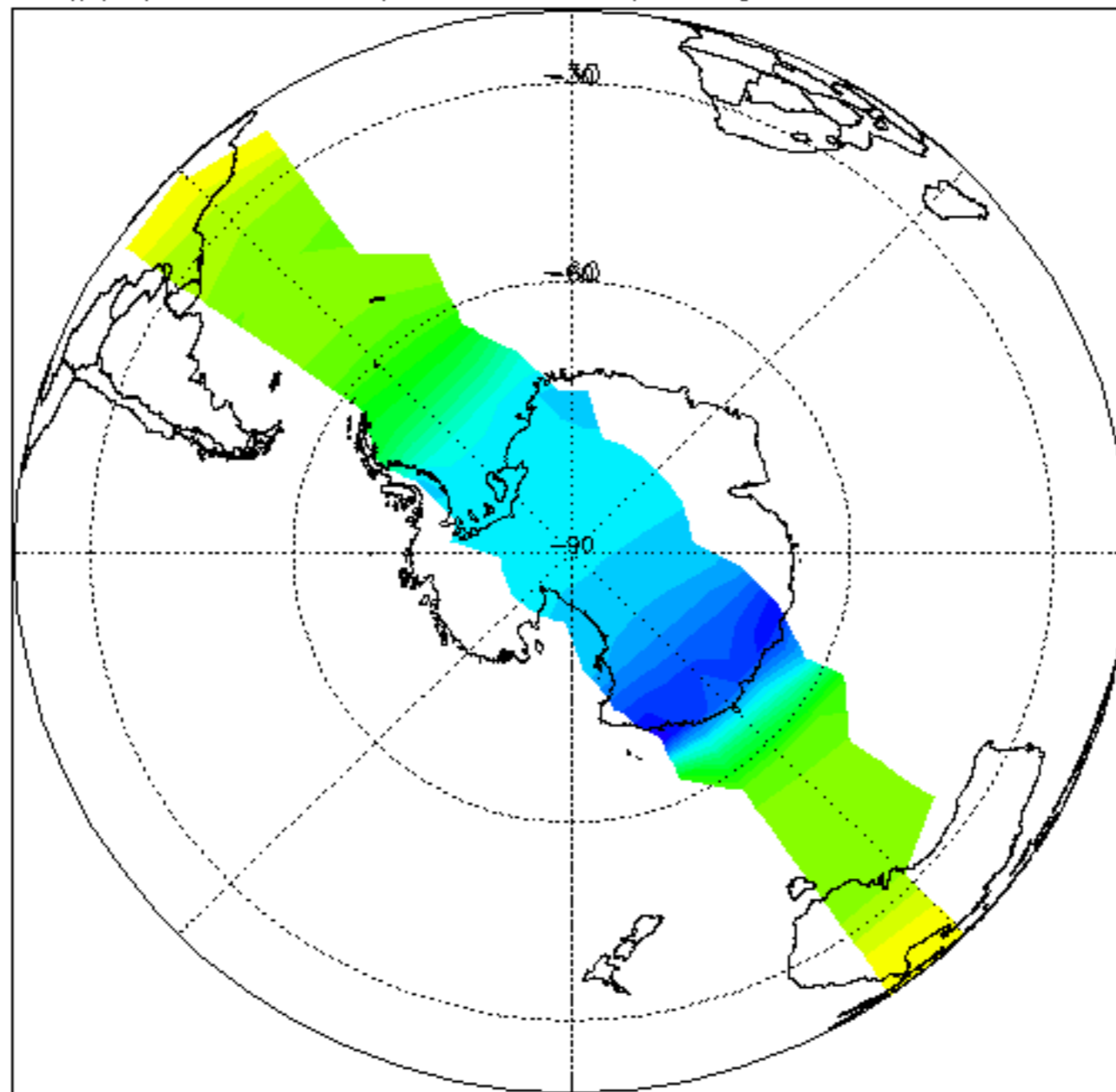
HN03 (ppb) at: 490 K (19km, 55hPa). Daily mean: 31-OCT-2011



CH<sub>4</sub> (ppm) at: 490 K (19km, 55hPa). Daily mean: 31-OCT-2011

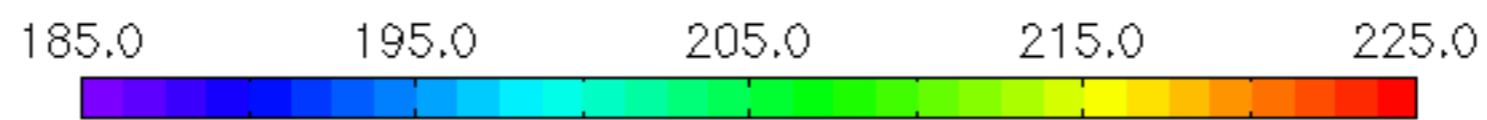
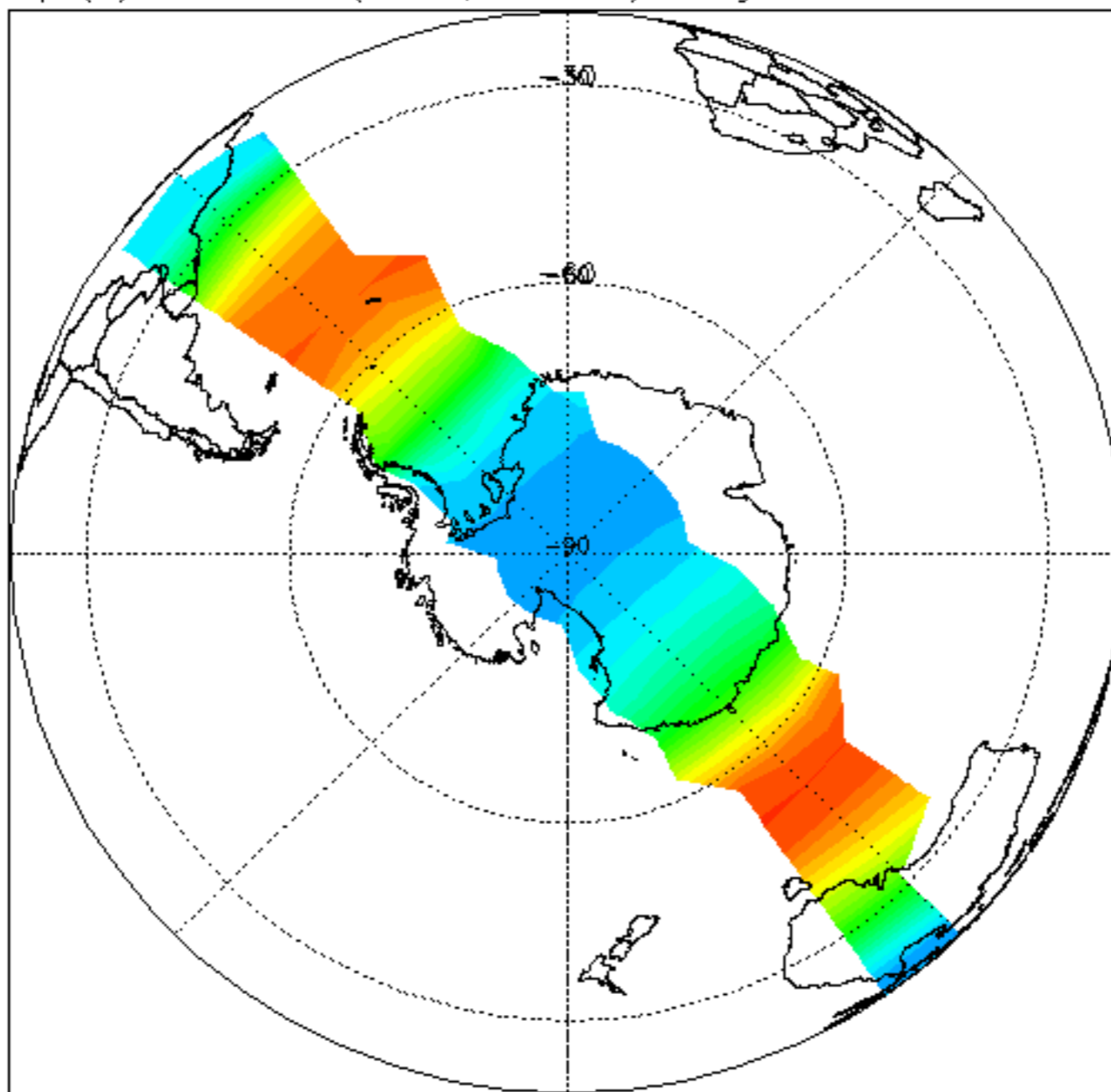


N<sub>2</sub>O (ppb) at: 490 K (19km, 55hPa). Daily mean: 31-OCT-2011

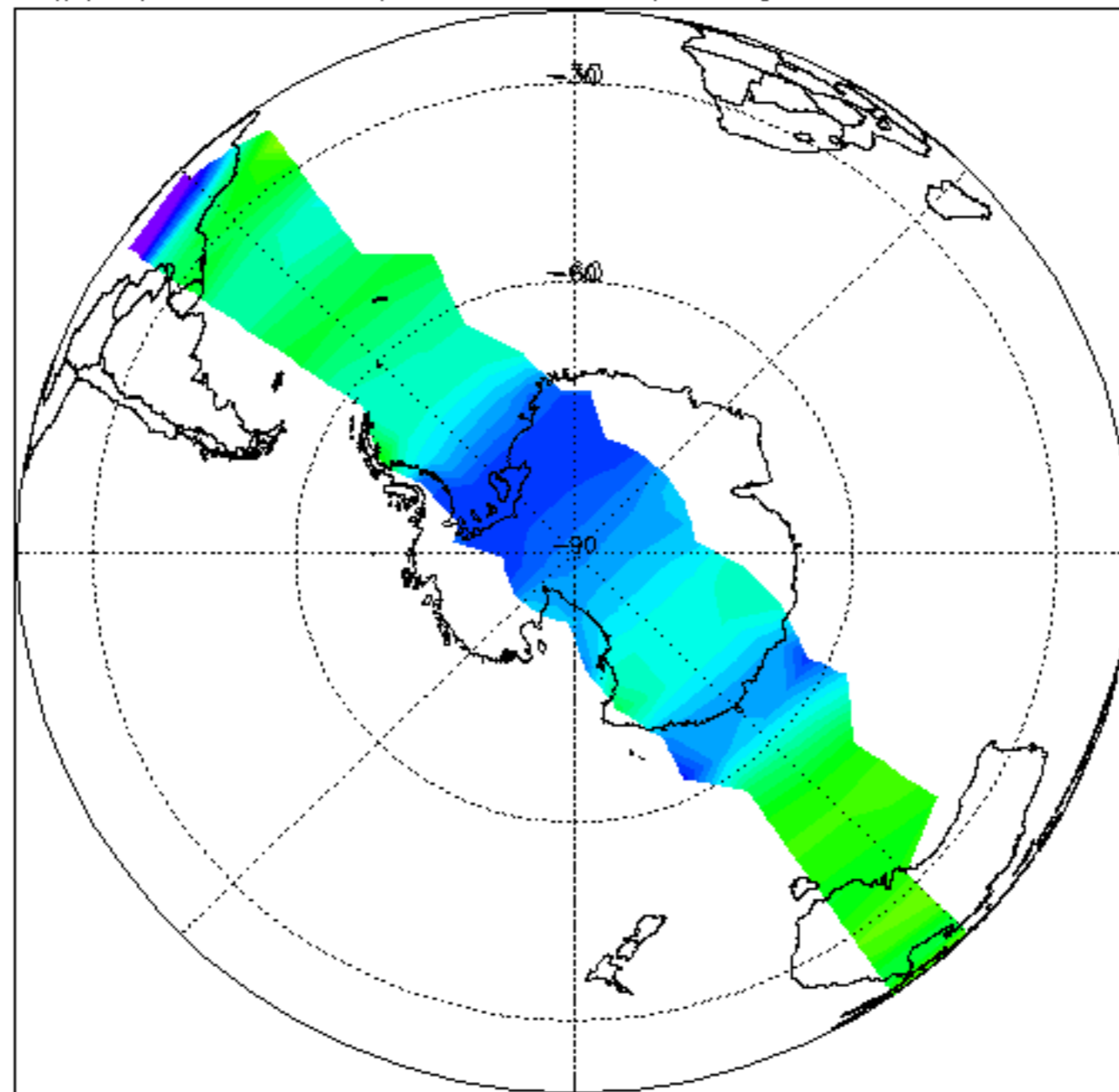




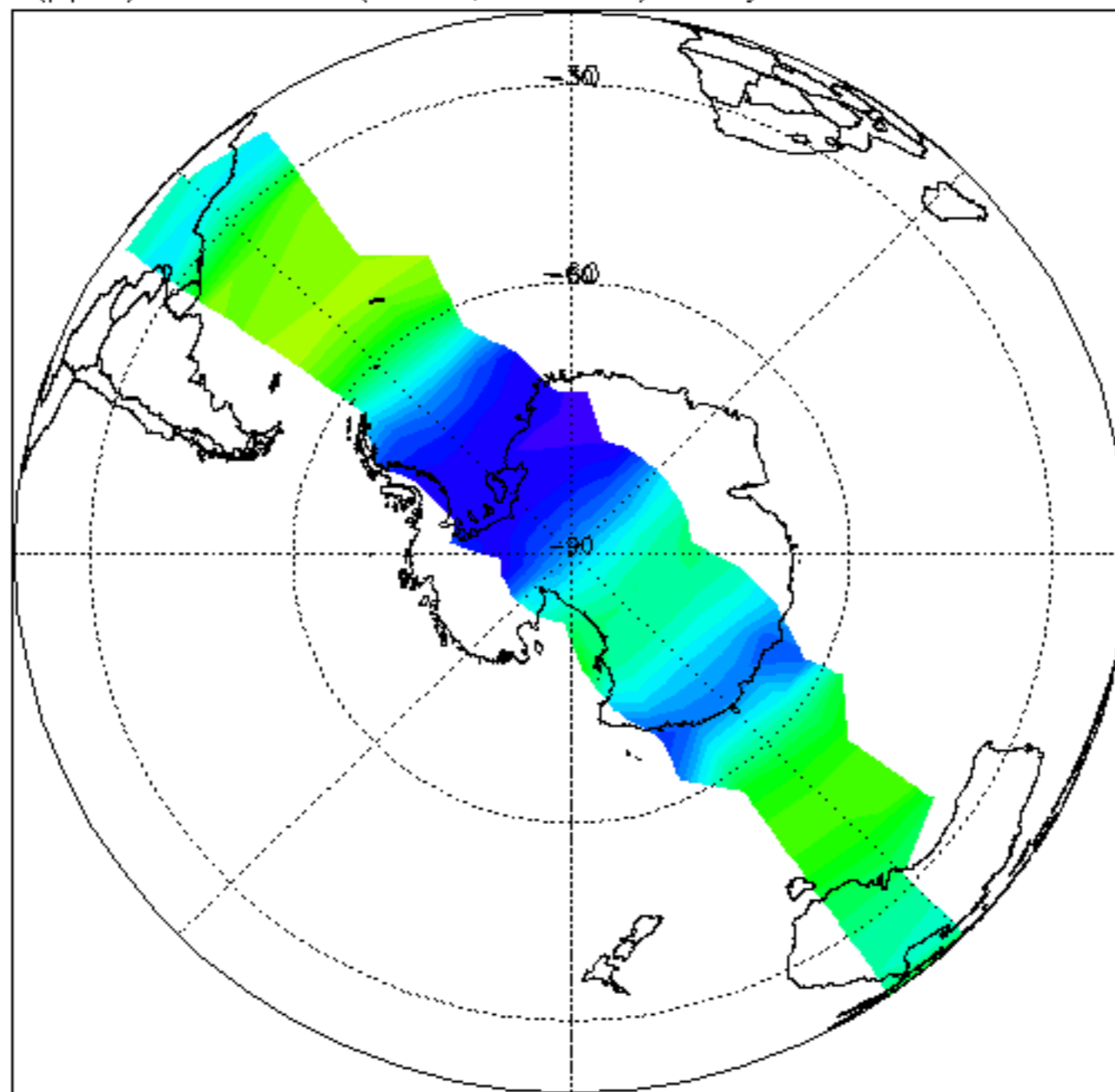
Temp (K) at: 410 K (16km, 100hPa). Daily mean: 31-OCT-2011



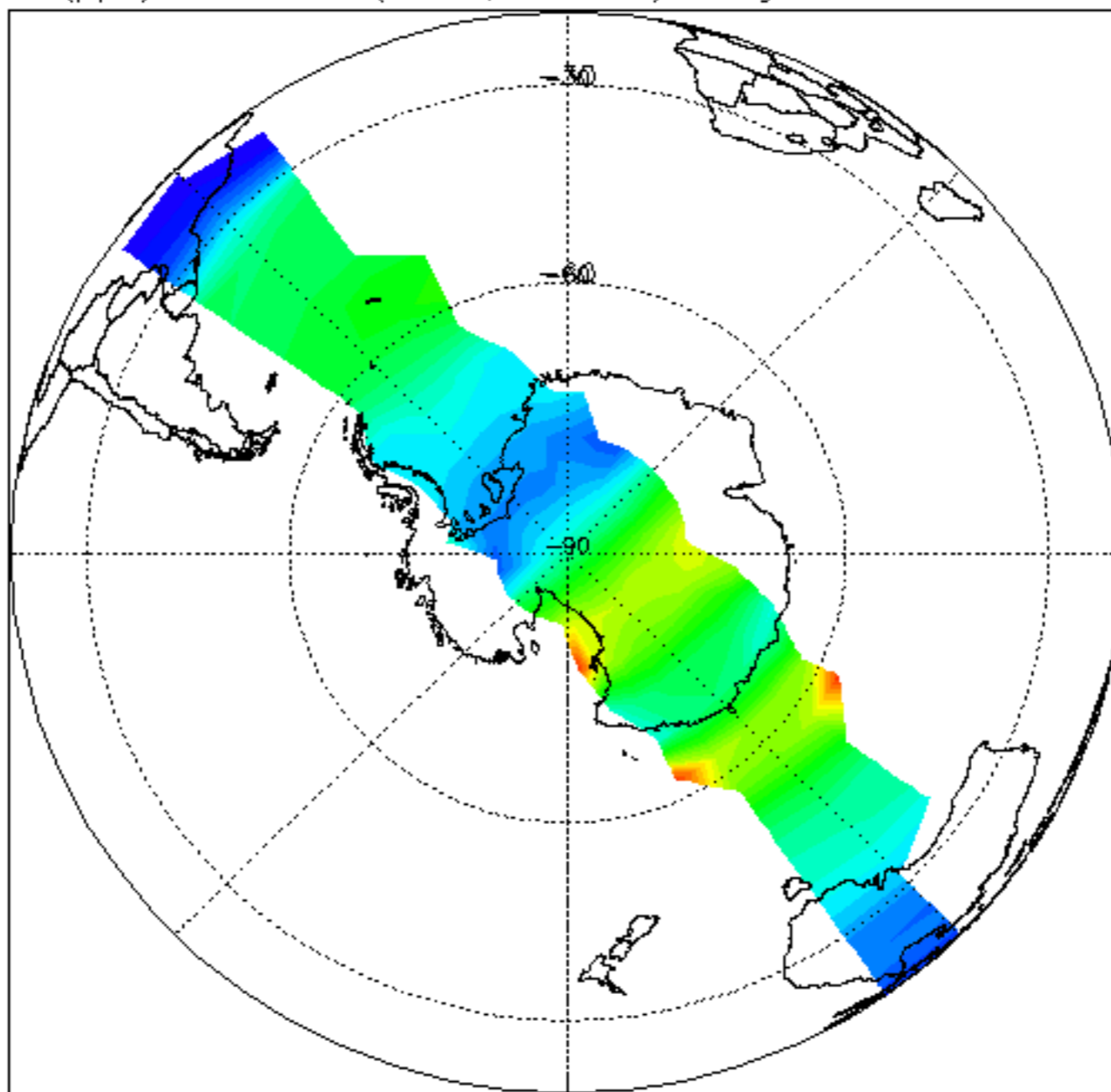
H<sub>2</sub>O (ppm) at: 410 K (16km, 100hPa). Daily mean: 31-OCT-2011



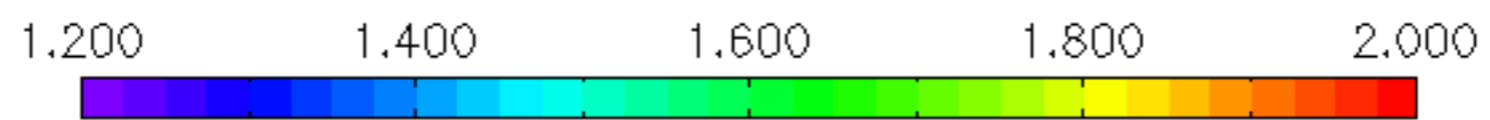
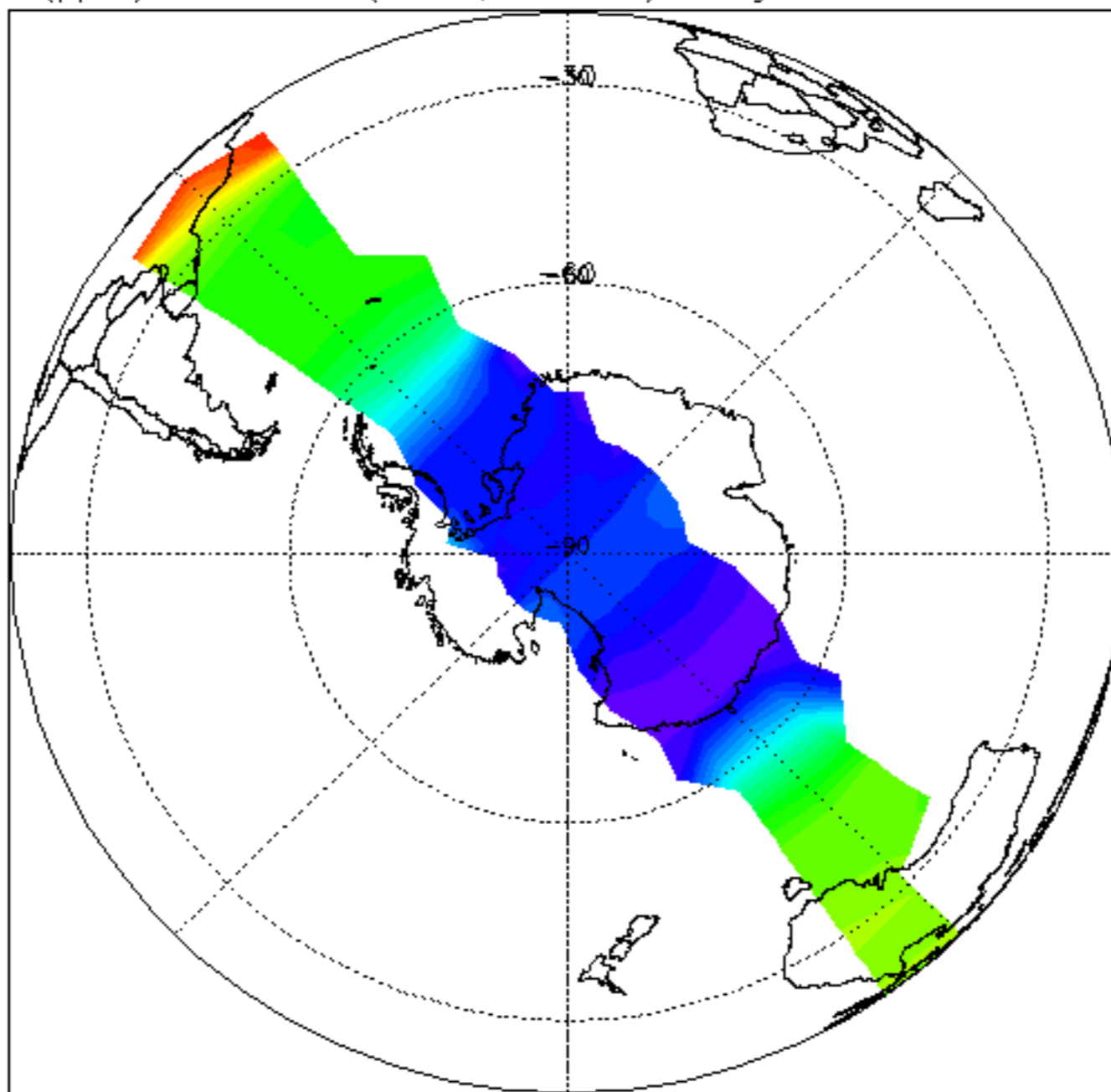
O3 (ppm) at: 410 K (16km, 100hPa). Daily mean: 31-OCT-2011



HNO<sub>3</sub> (ppb) at: 410 K (16km, 100hPa). Daily mean: 31-OCT-2011



CH<sub>4</sub> (ppm) at: 410 K (16km, 100hPa). Daily mean: 31-OCT-2011



N<sub>2</sub>O (ppb) at: 410 K (16km, 100hPa). Daily mean: 31-OCT-2011

