

## MIPAS maps of mean distribution: 28-FEB-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.

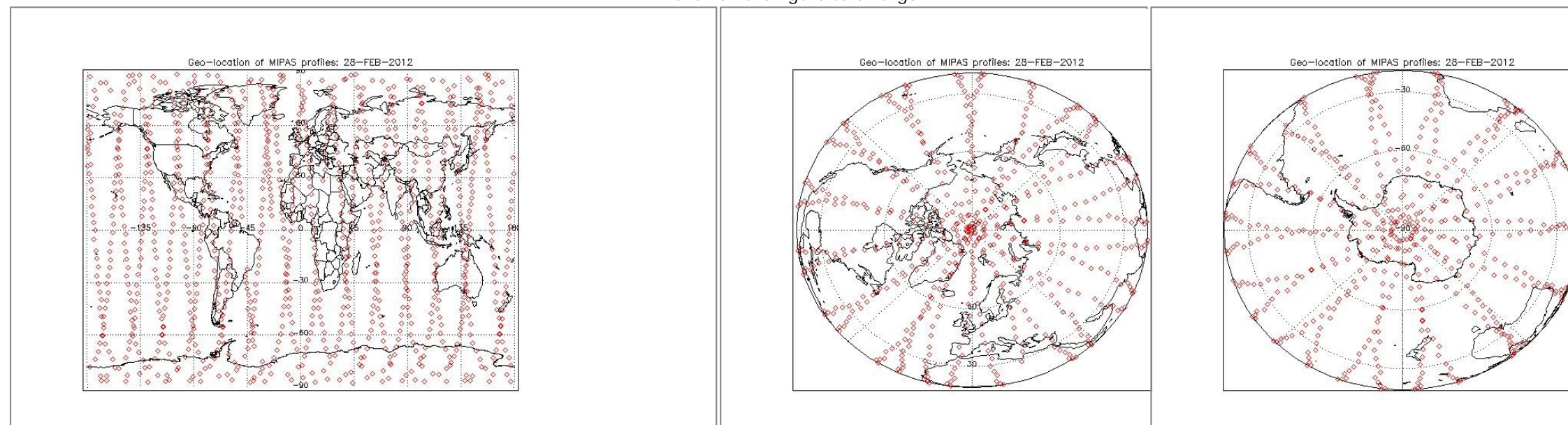
Note that Upper and Middle Atmosphere measurements are only retrieved up to 70km.

Total Number of profiles: 1069

Retrieved Parameter	Profiles not reaching convergence (%)	Profiles exceeding chi2 threshold (%)
p-T	11.51	2.34
H2O	11.51	0.09
O3	11.60	0.28
HNO3	92.05	0.28
CH4	11.60	0.09
N2O	12.35	0.37
NO2	11.79	7.58

### Geo-location of MIPAS profiles

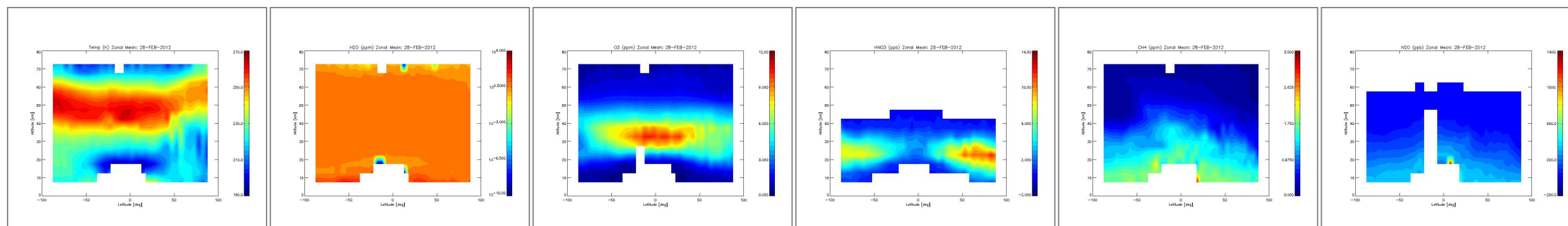
Click on the figure to enlarge



### 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)						

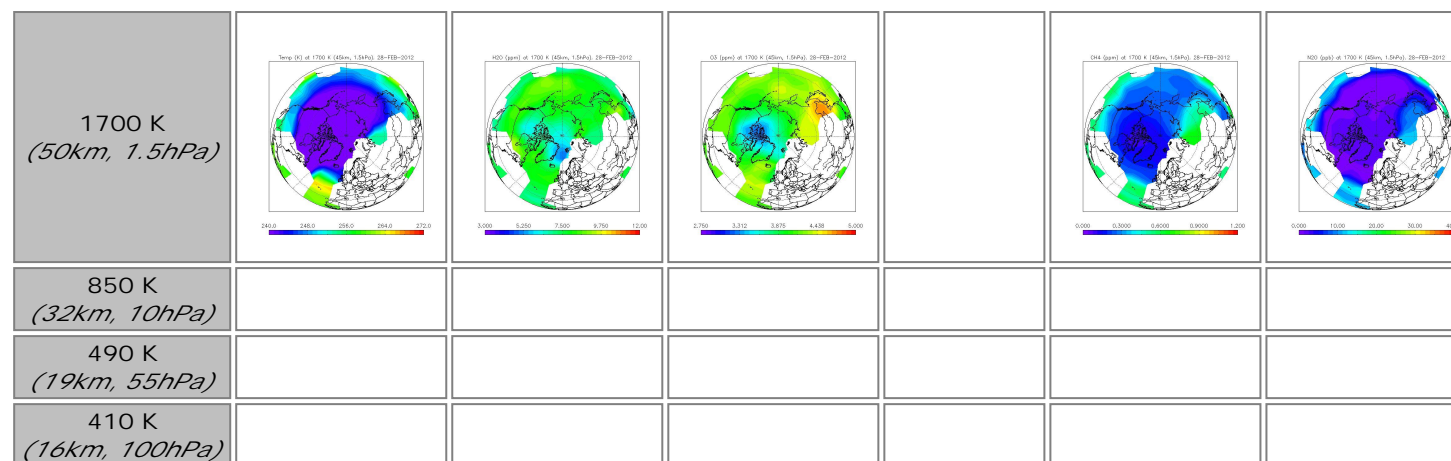
[Home](#)

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### 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)						

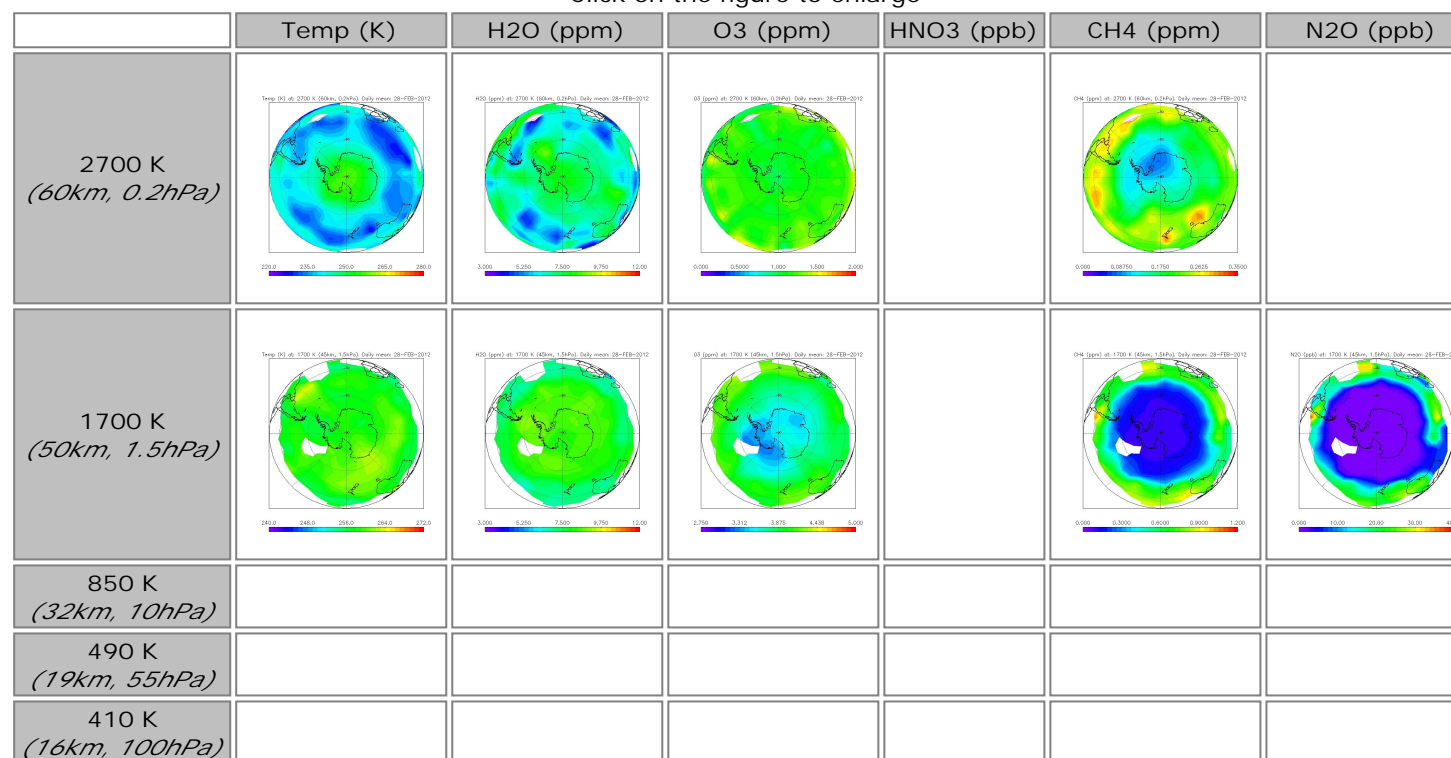


[Home](#)

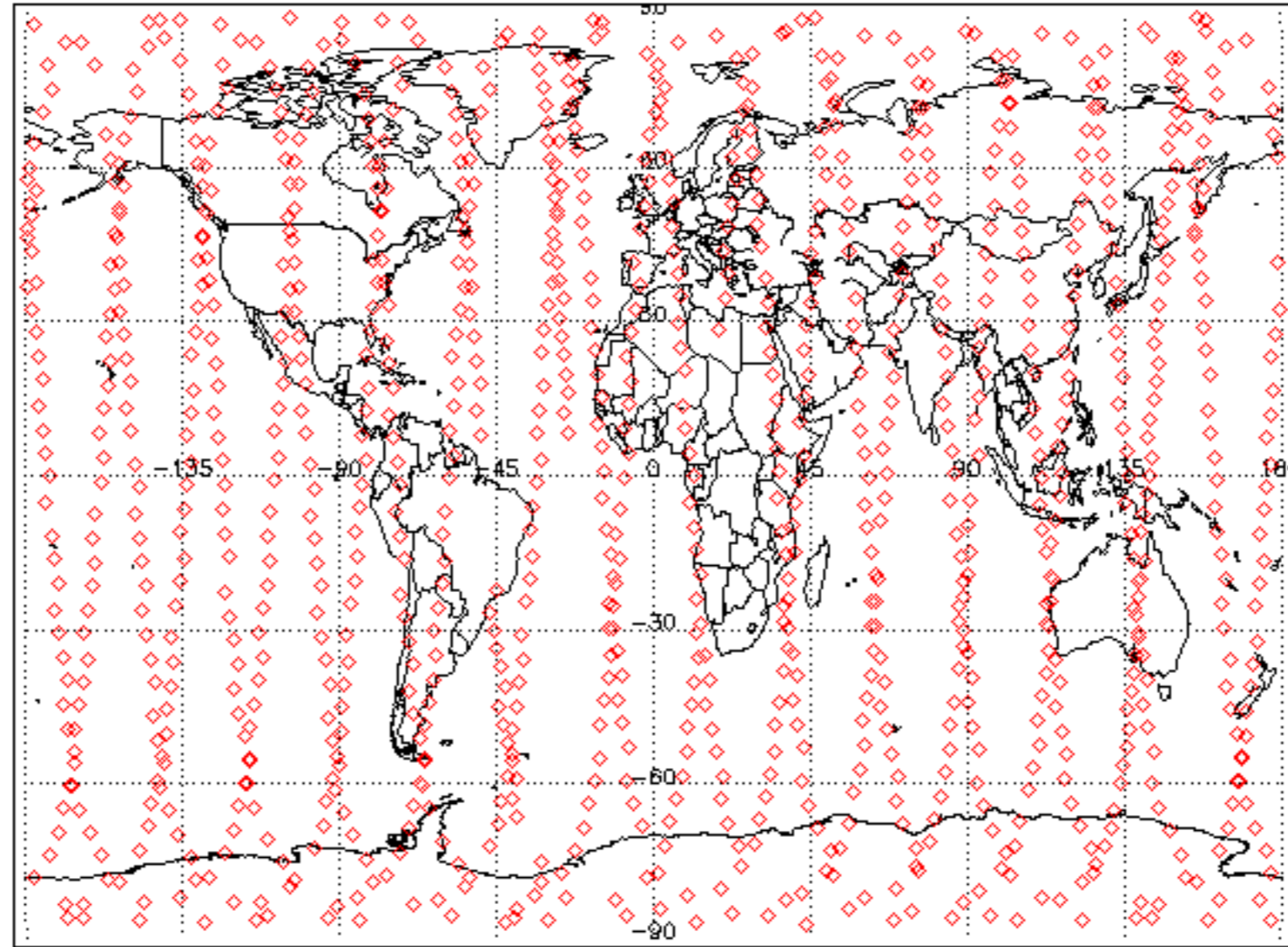
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### Antarctic distribution interpolated at different isentropic levels

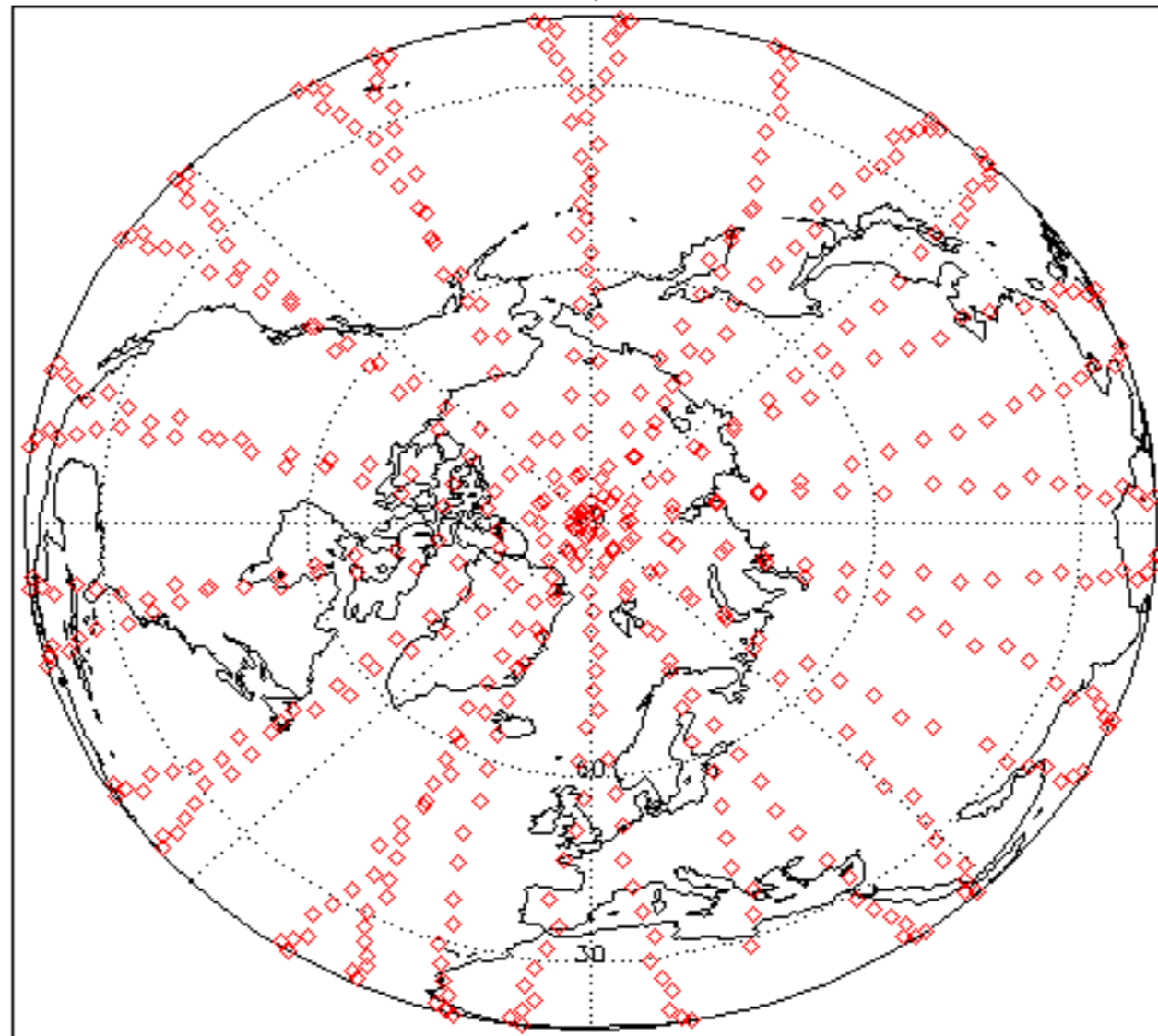
Click on the figure to enlarge



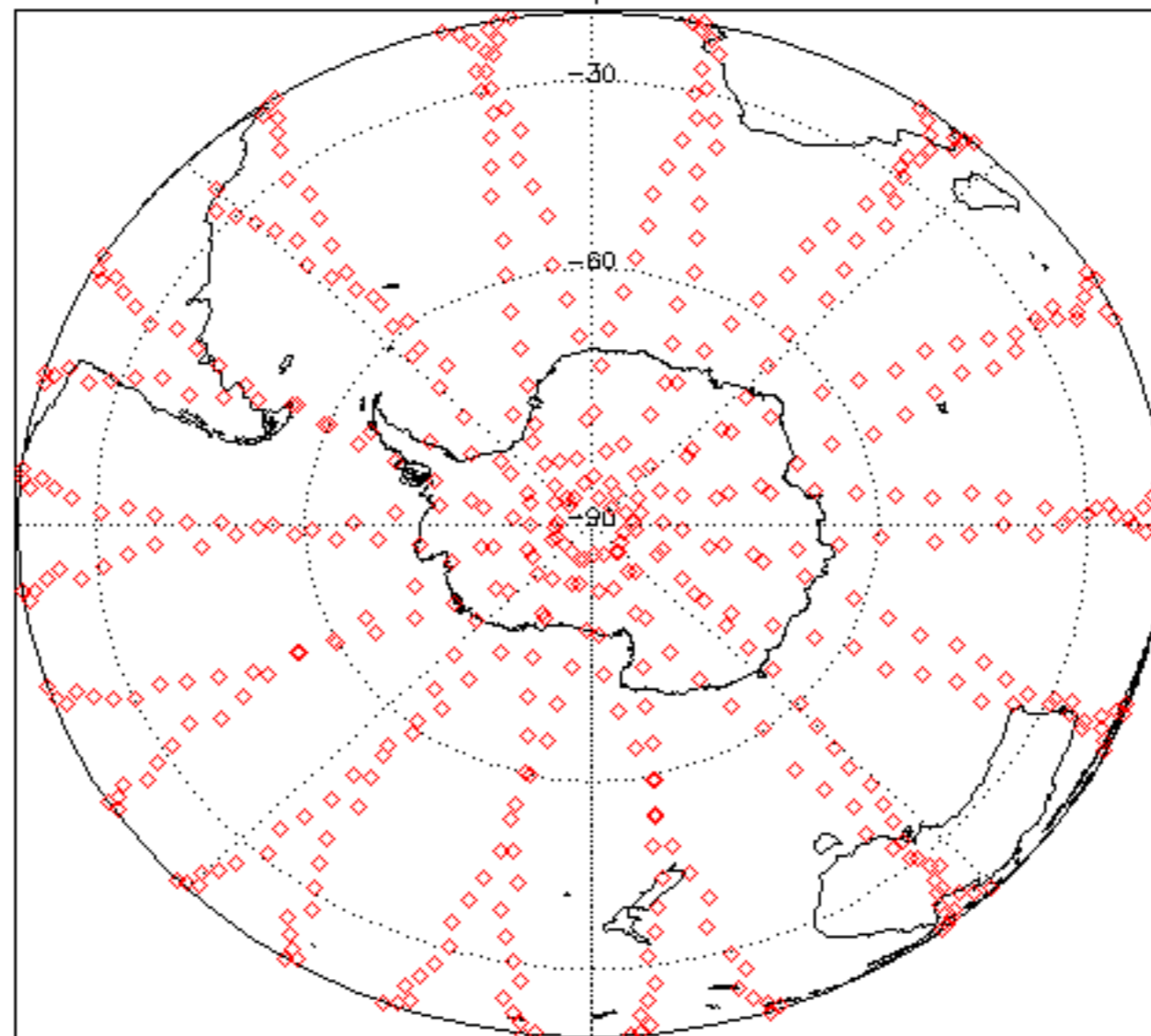
Geo-location of MIPAS profiles: 28-FEB-2012

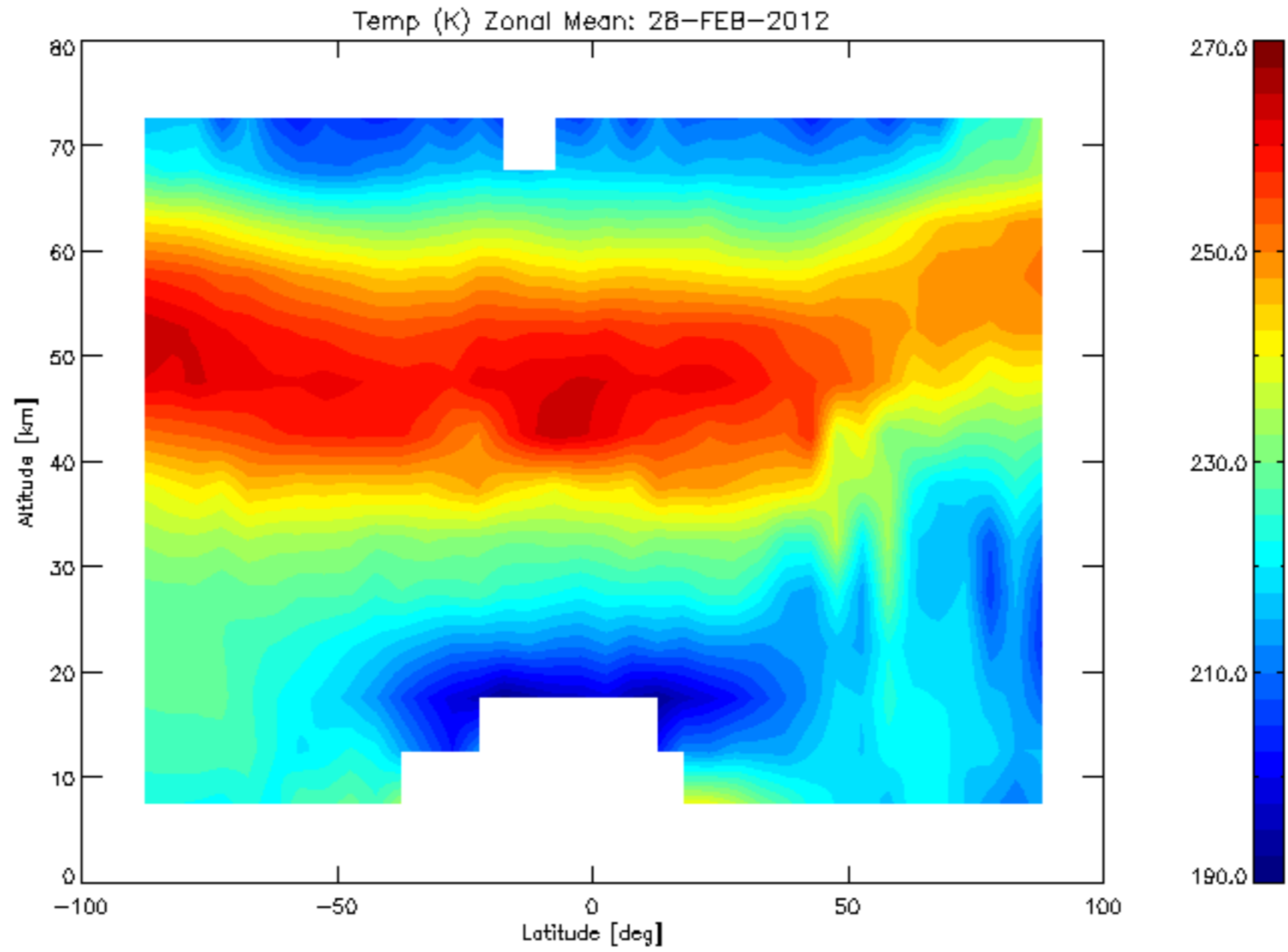


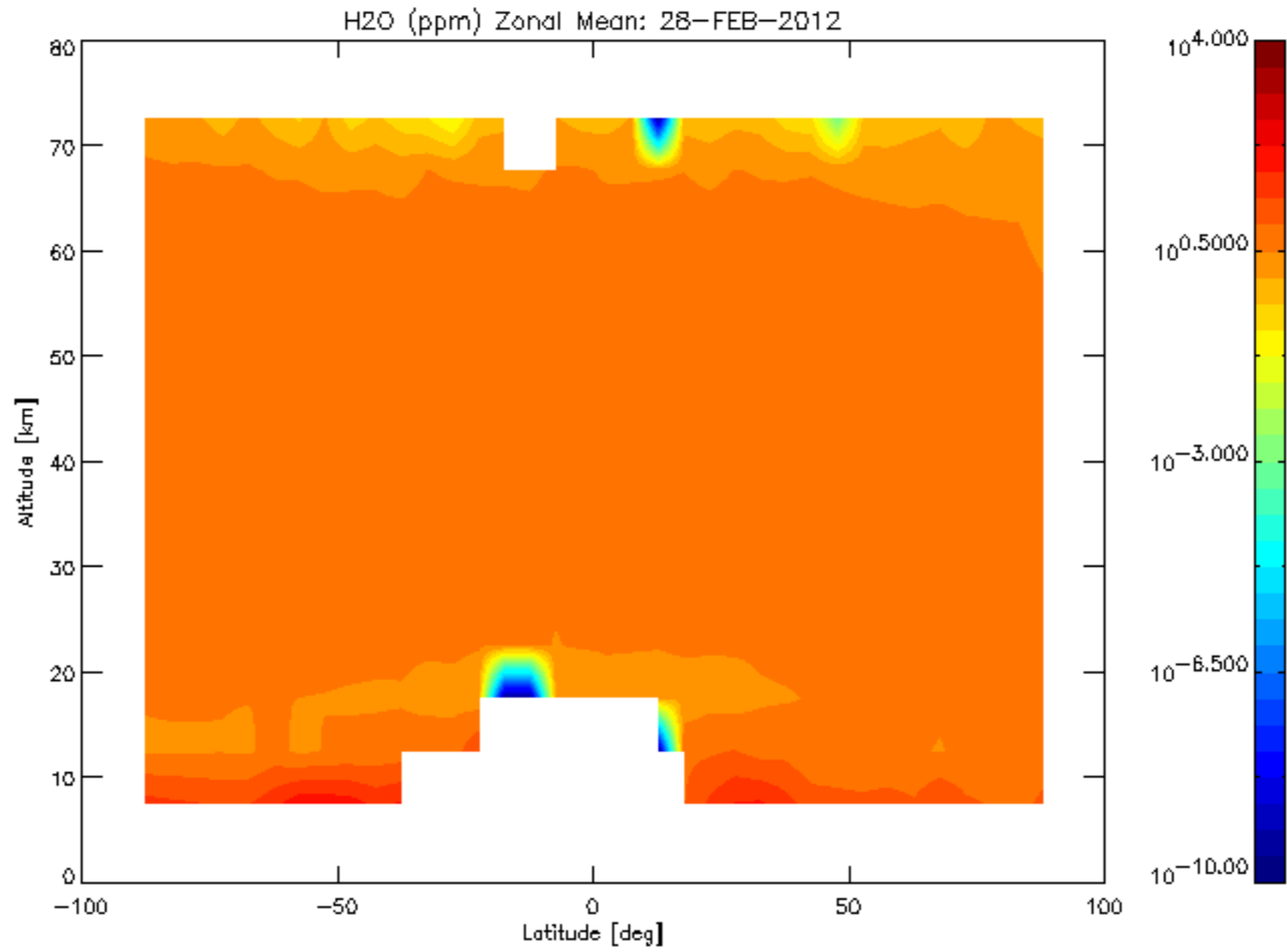
Geo-location of MIPAS profiles: 28-FEB-2012



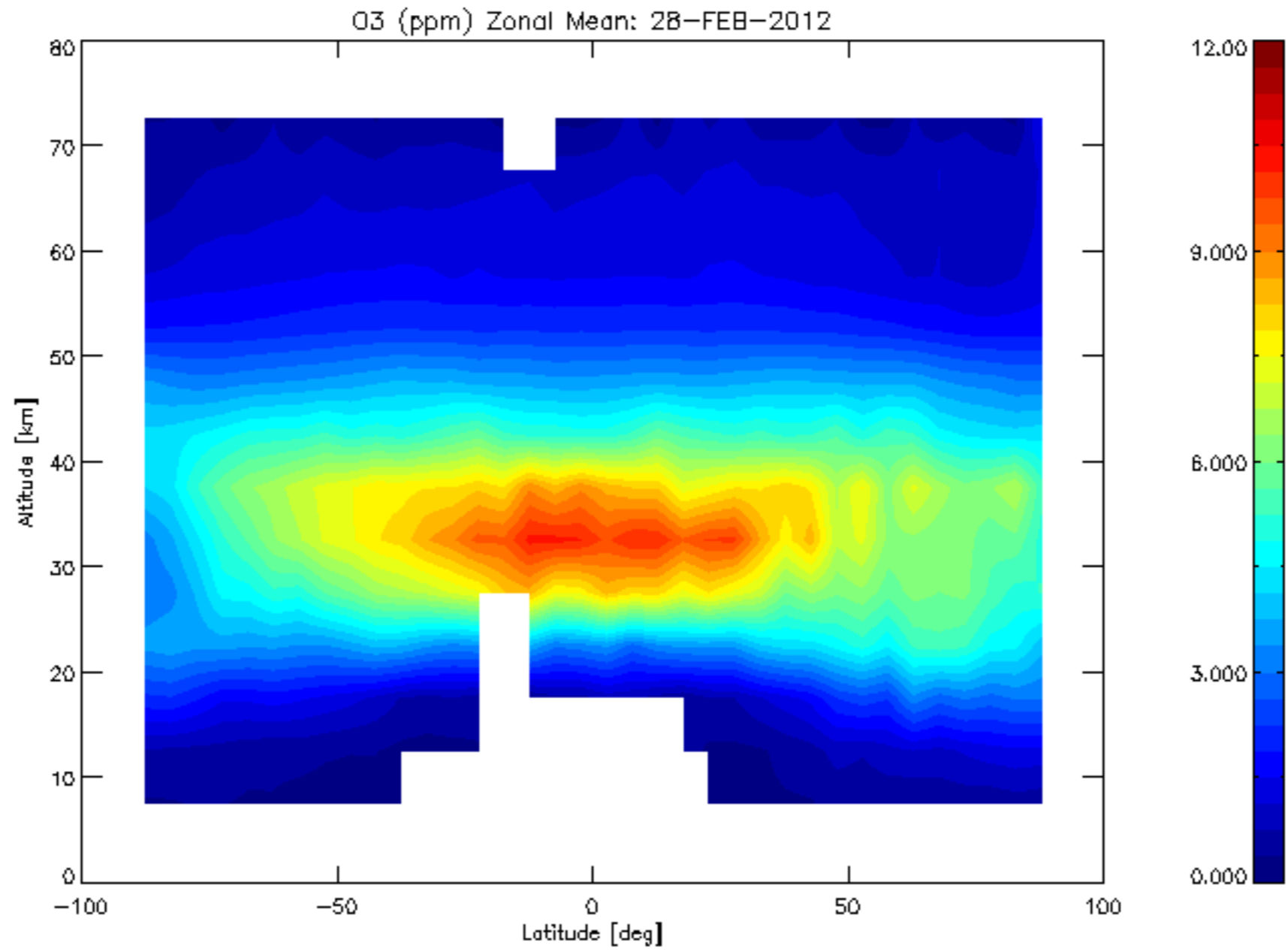
Geo-location of MIPAS profiles: 28-FEB-2012

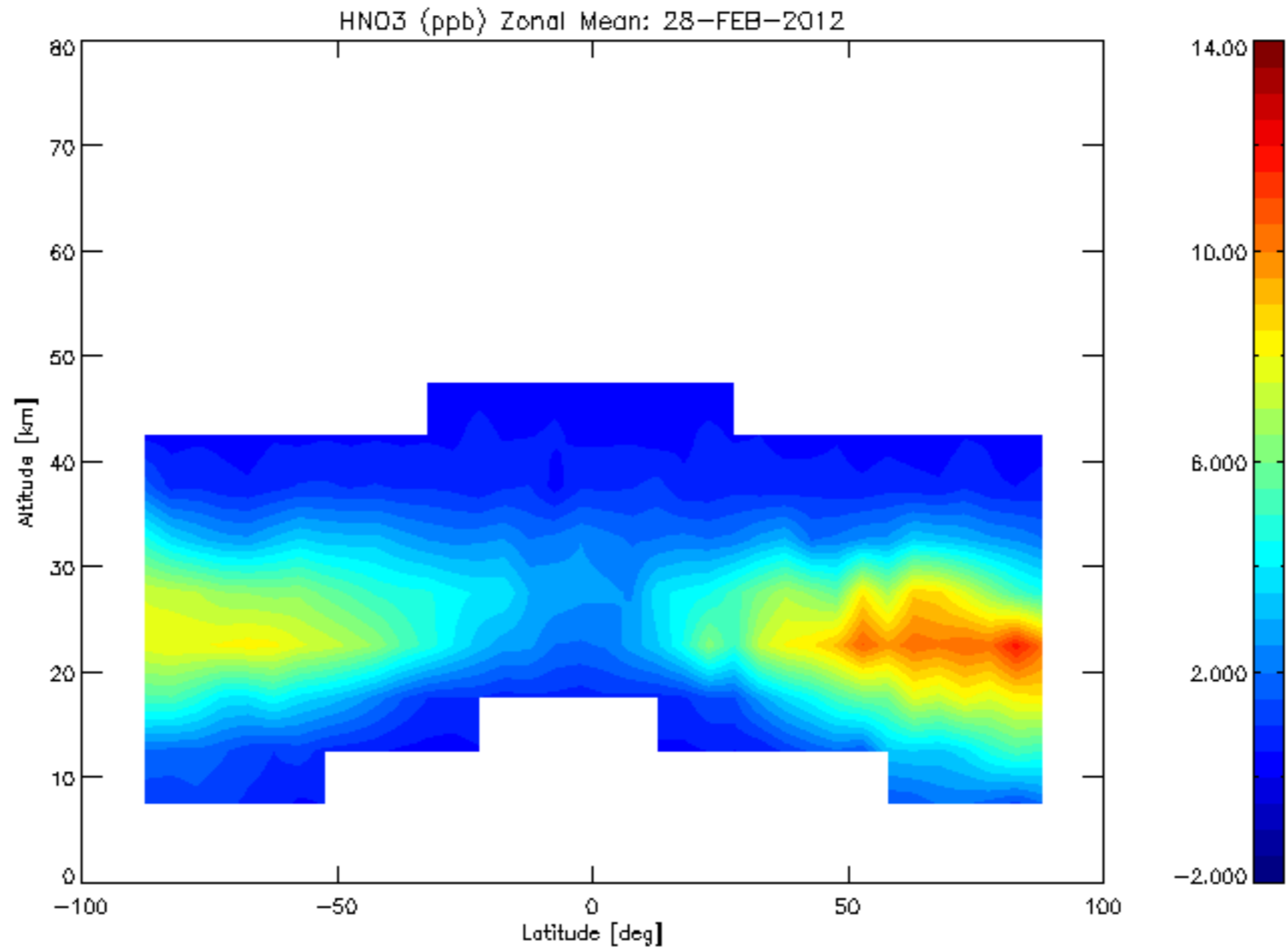


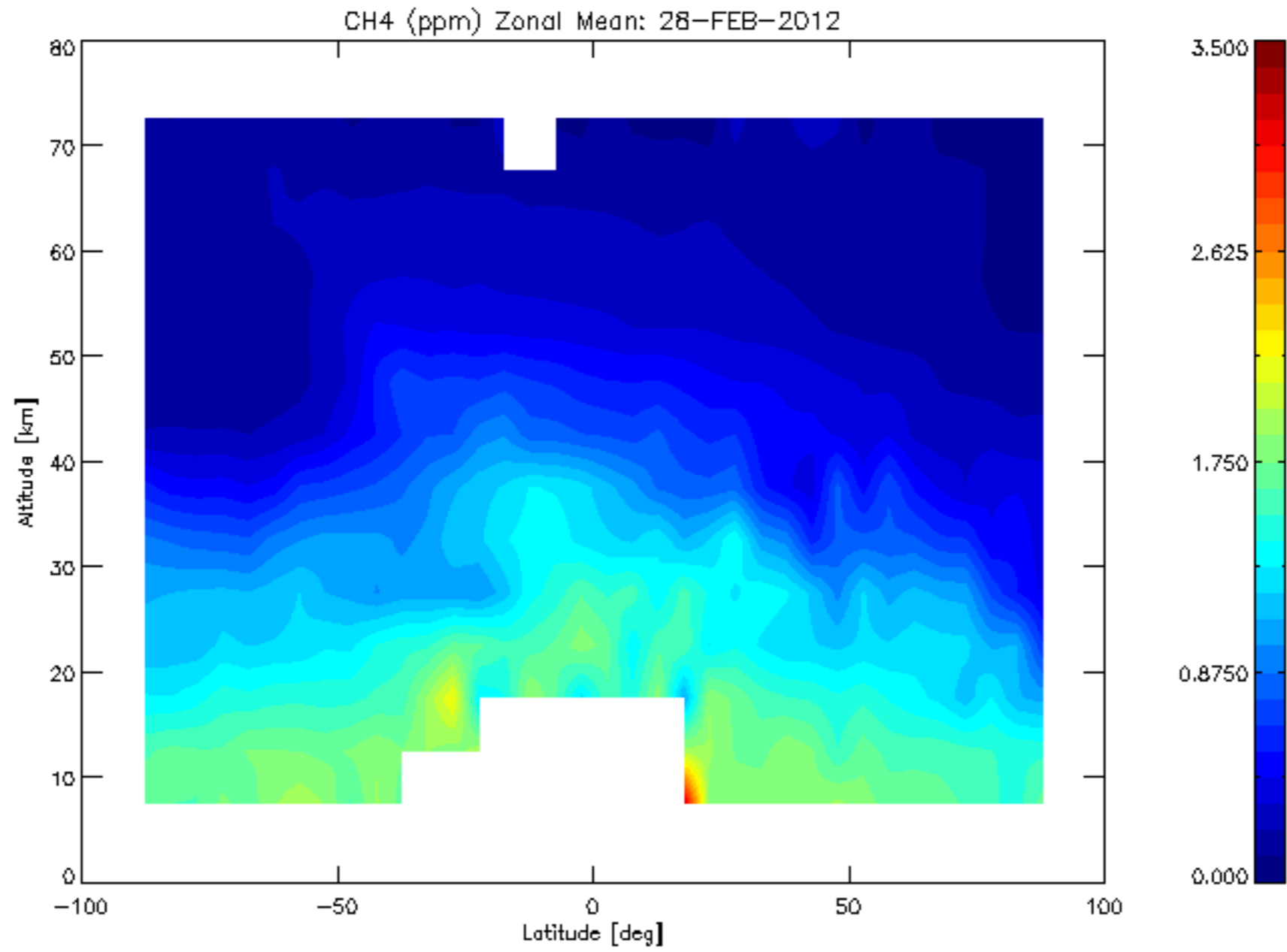


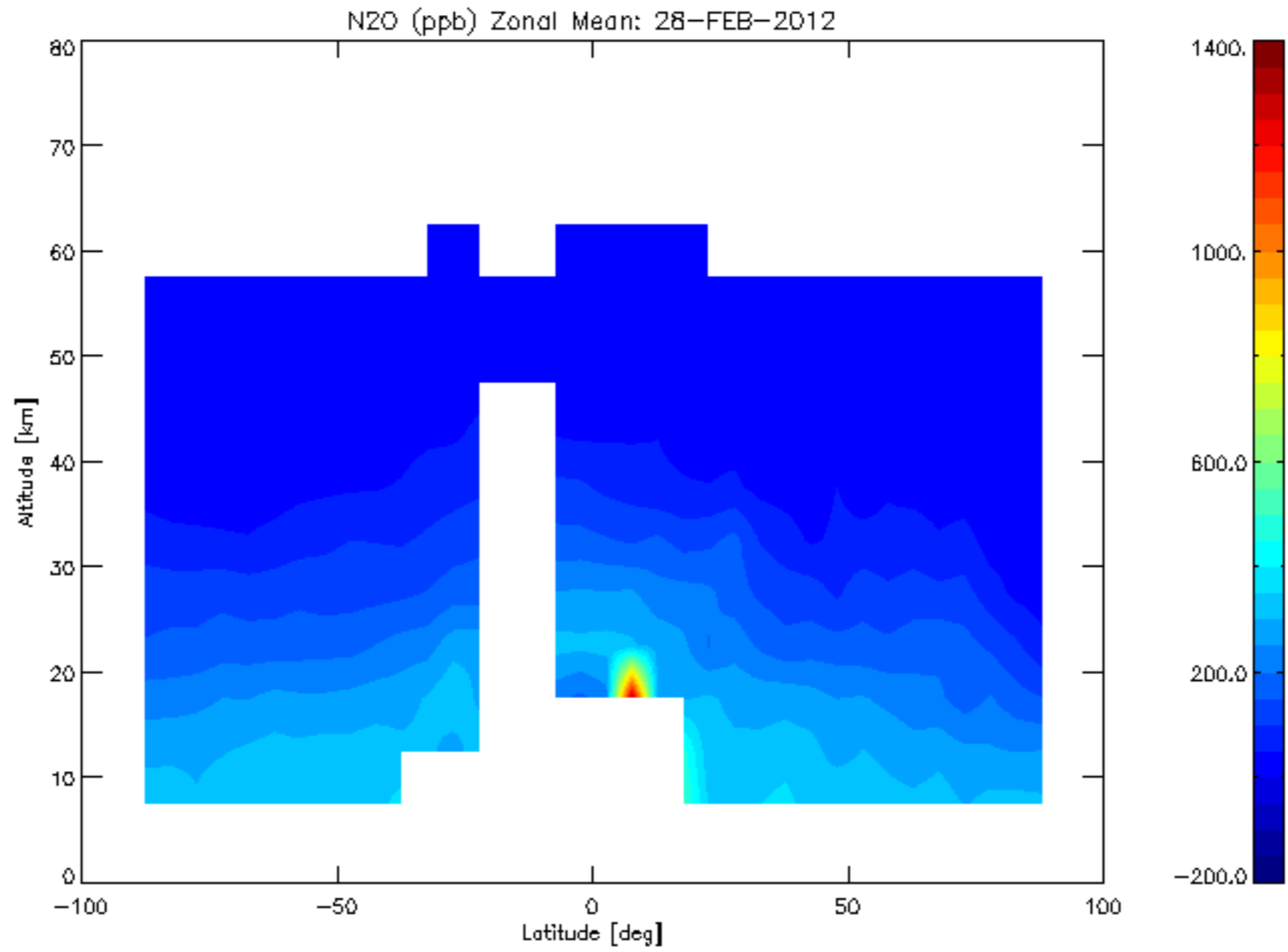




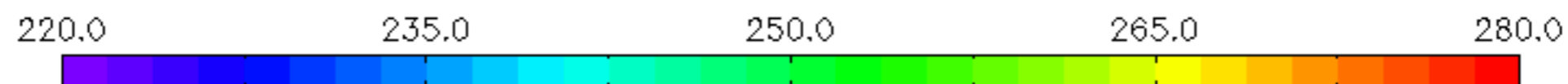
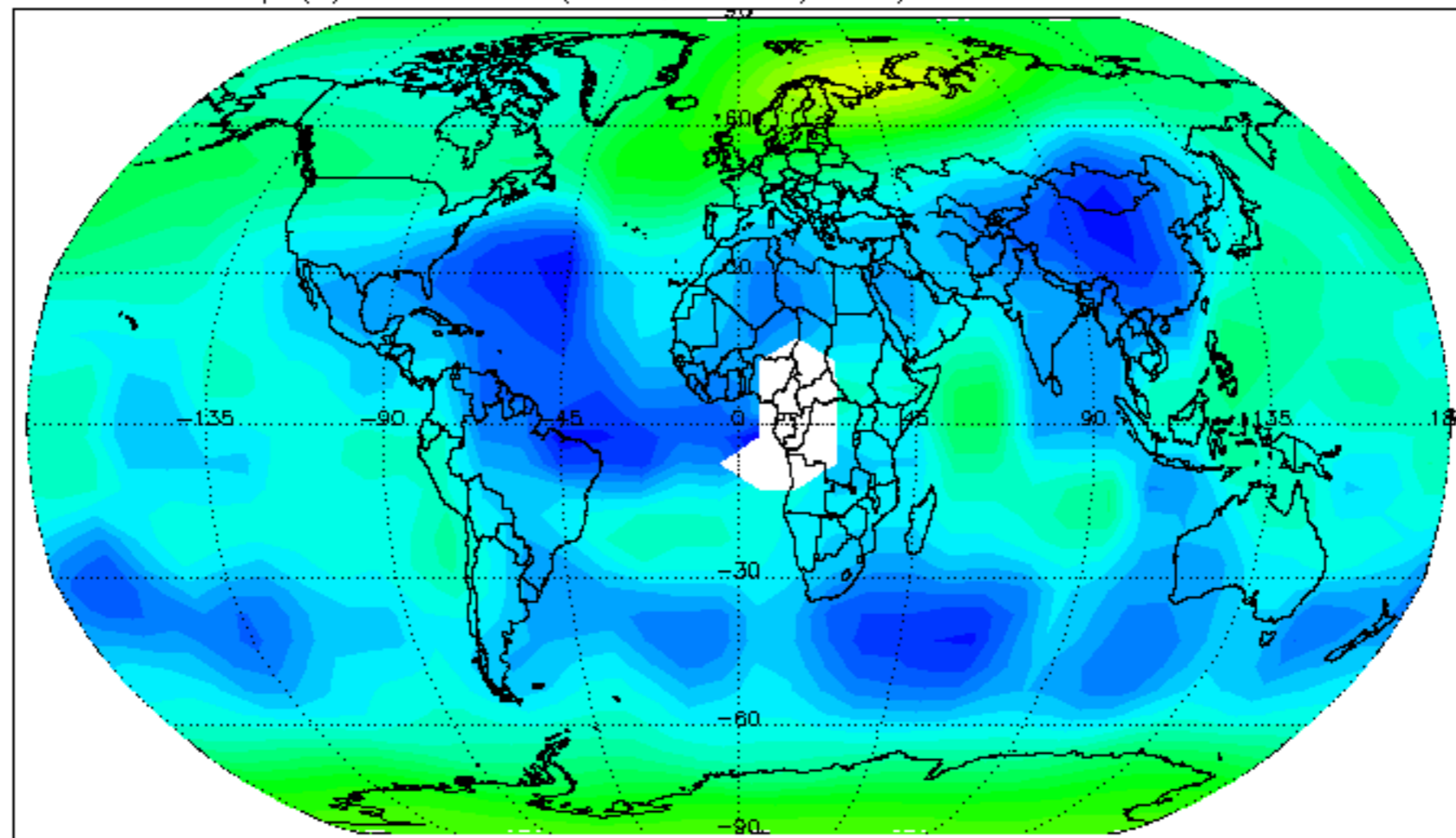




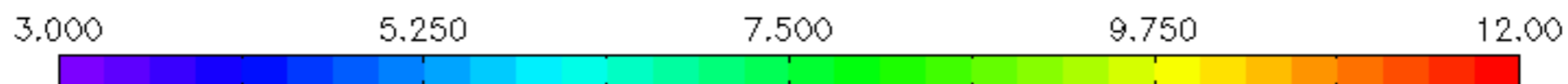
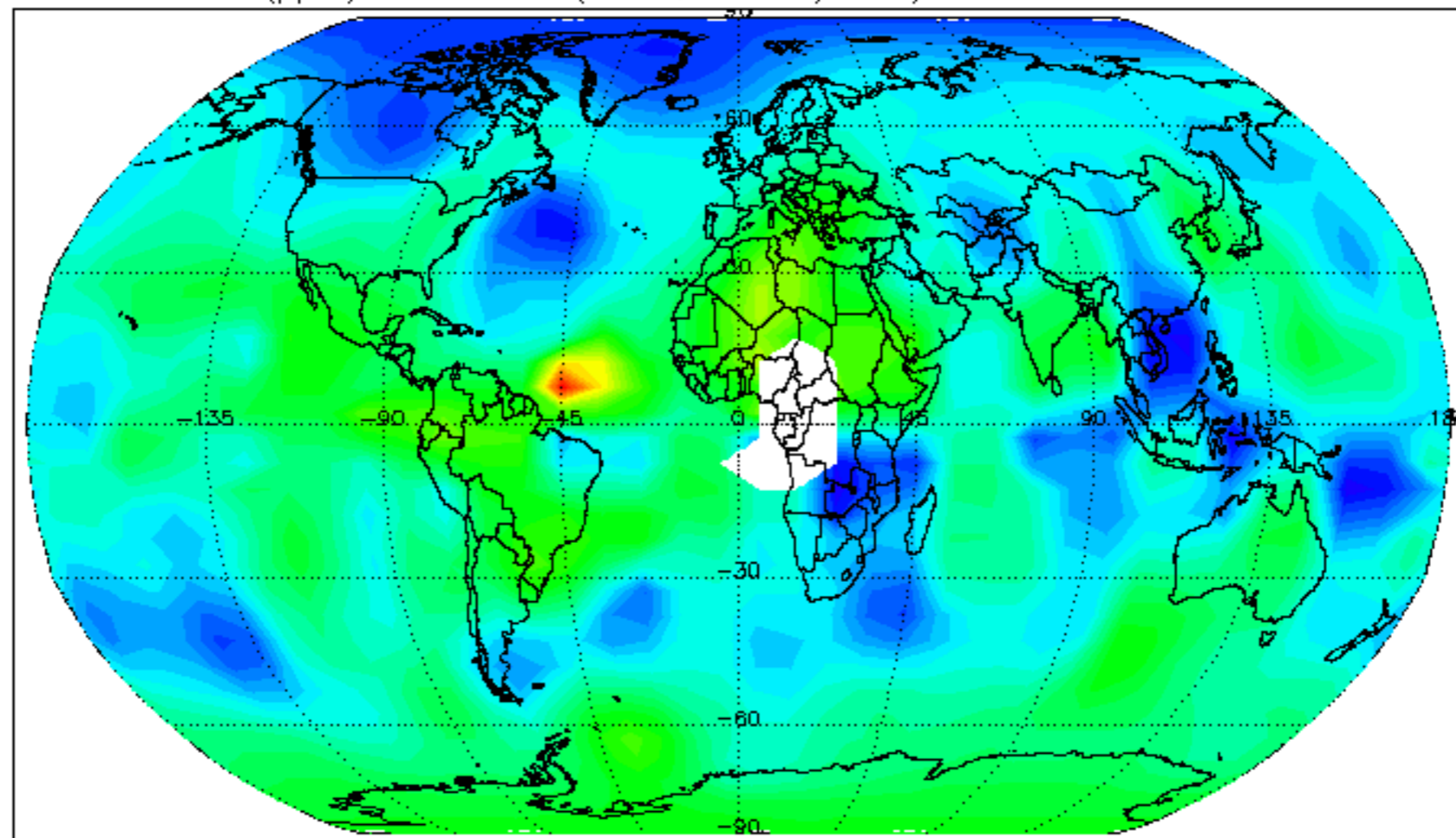




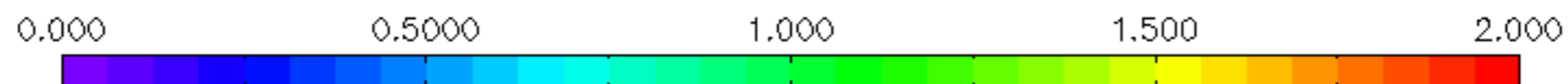
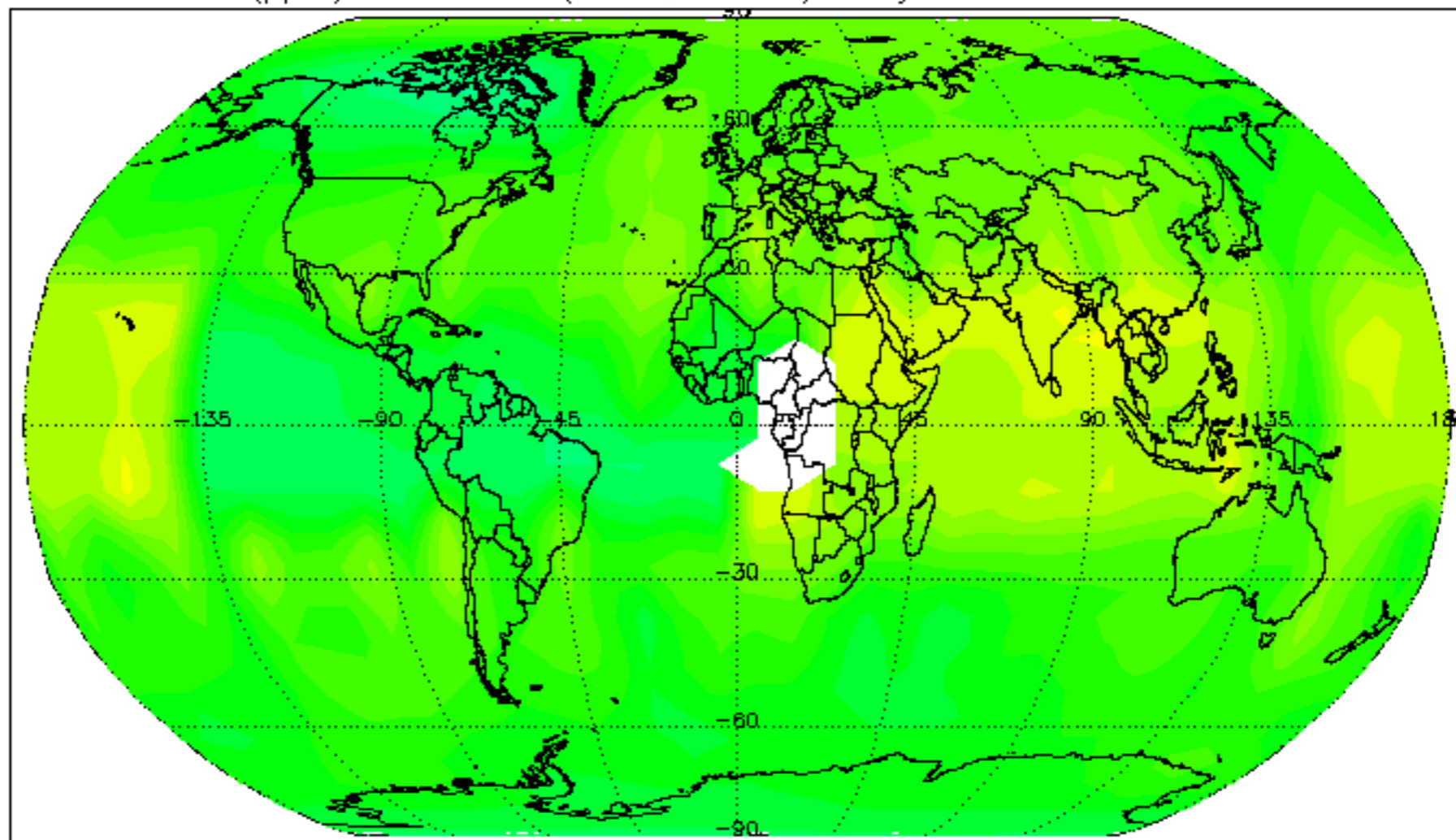
Temp (K) at: 2700 K (60km, 0.2hPa). Daily mean: 28-FEB-2012



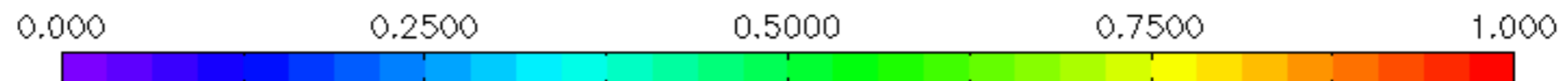
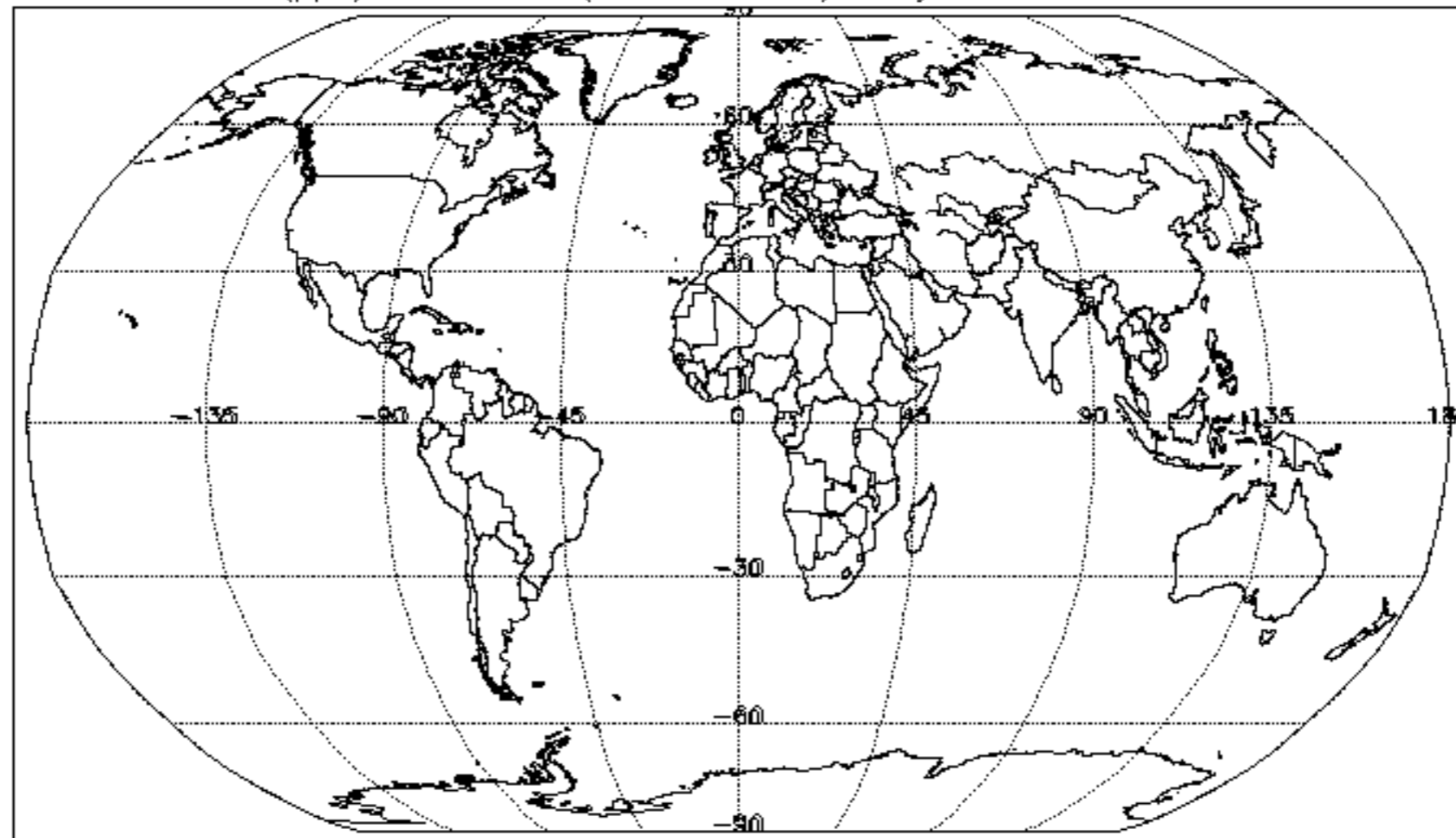
H<sub>2</sub>O (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 28-FEB-2012



O<sub>3</sub> (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 28-FEB-2012

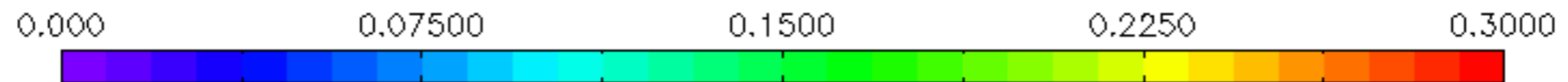
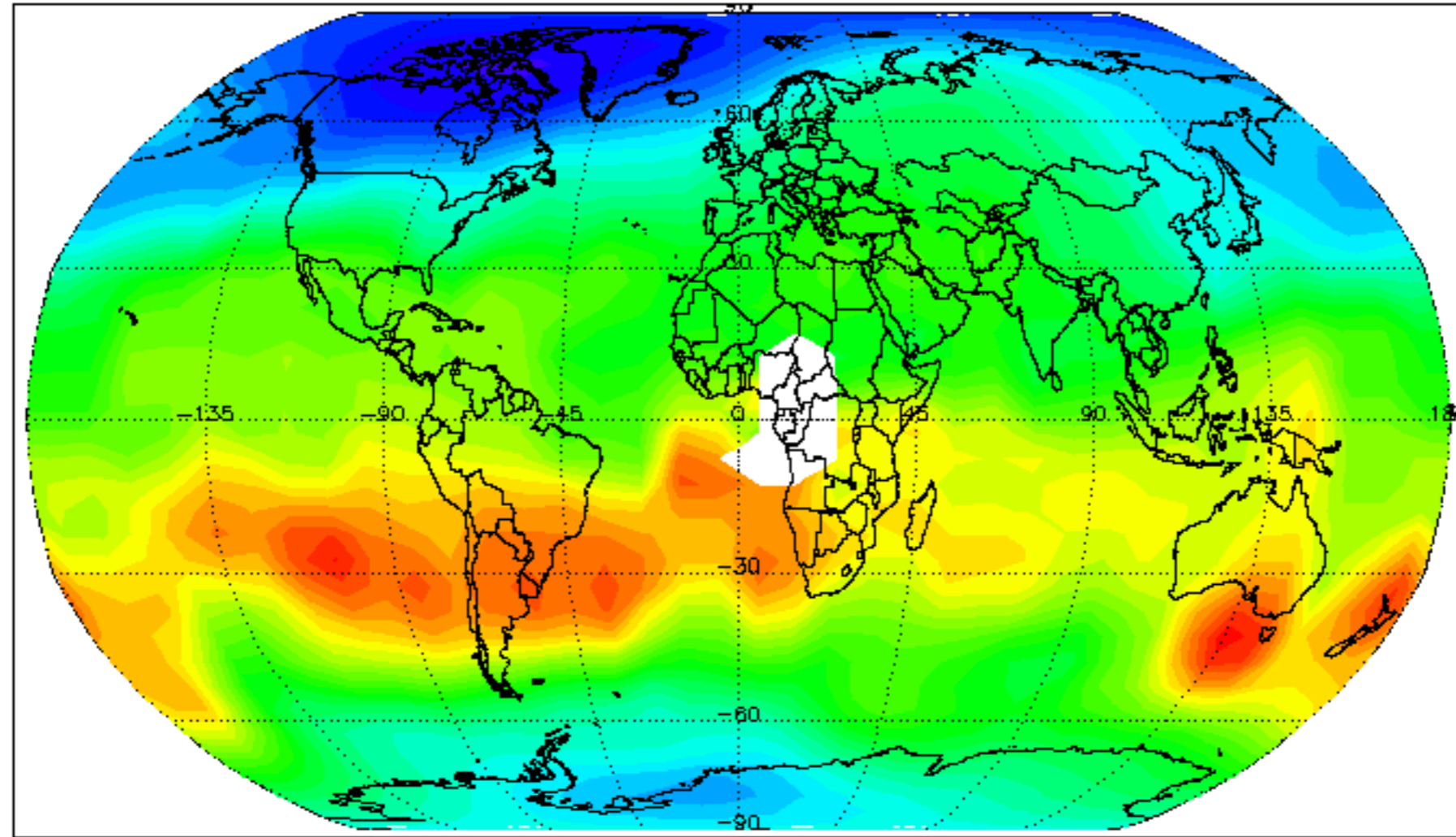


HNO<sub>3</sub> (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 28-FEB-2012

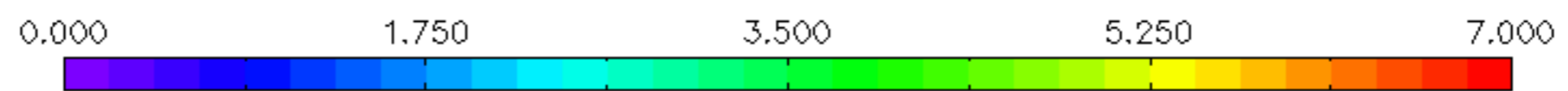
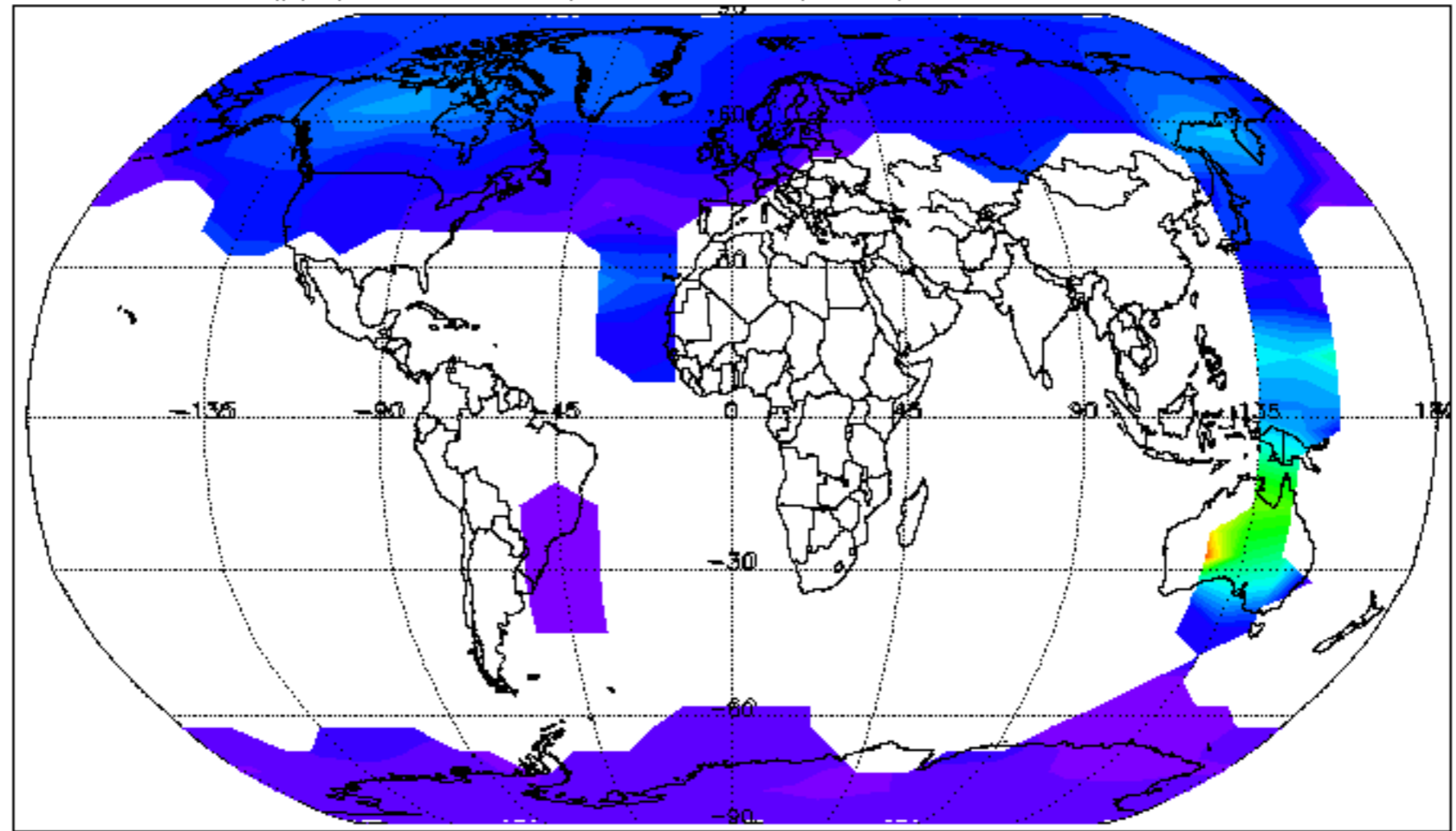




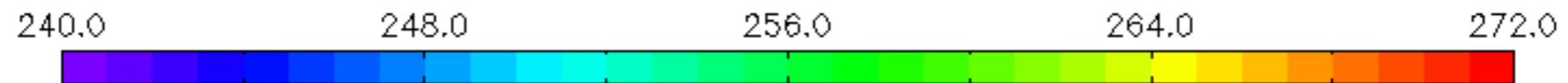
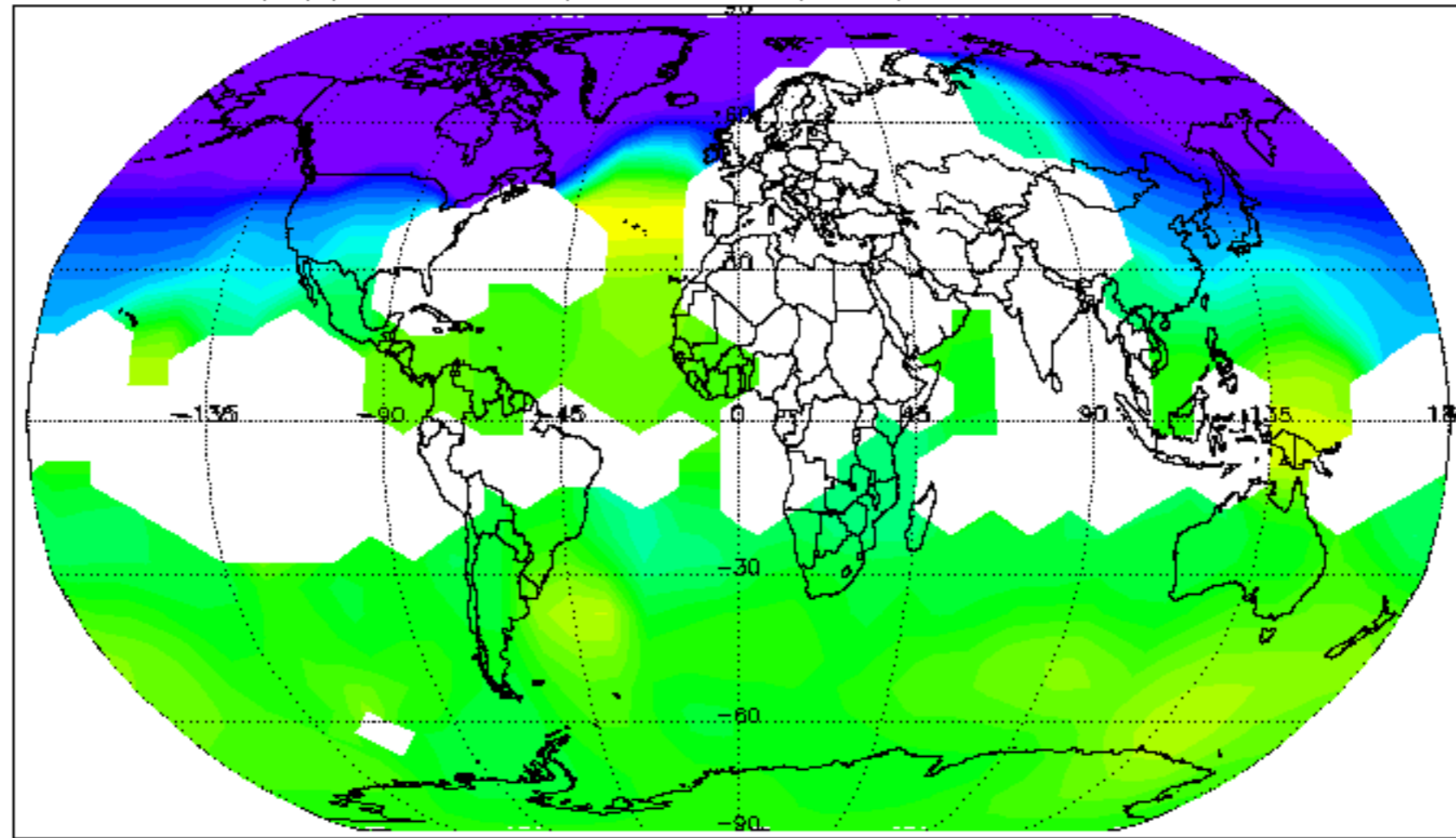
CH<sub>4</sub> (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 28-FEB-2012



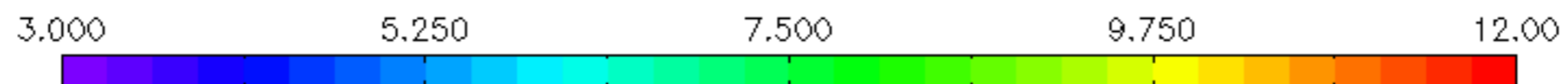
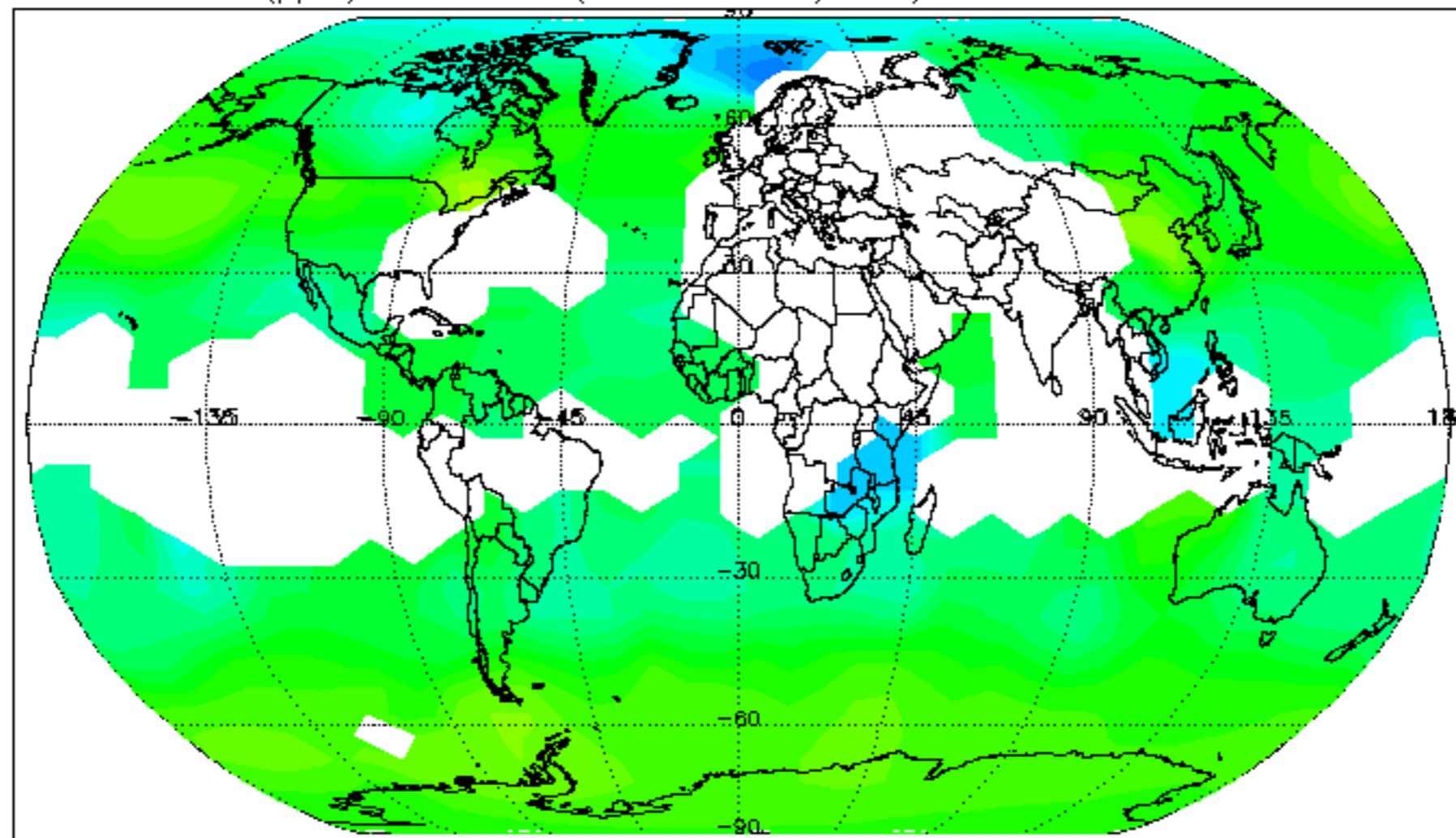
N2O (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 28-FEB-2012



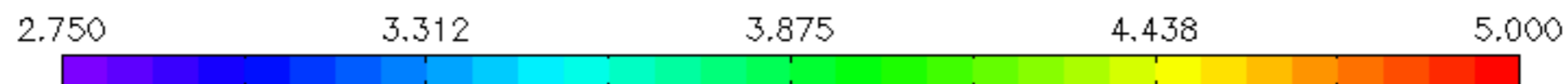
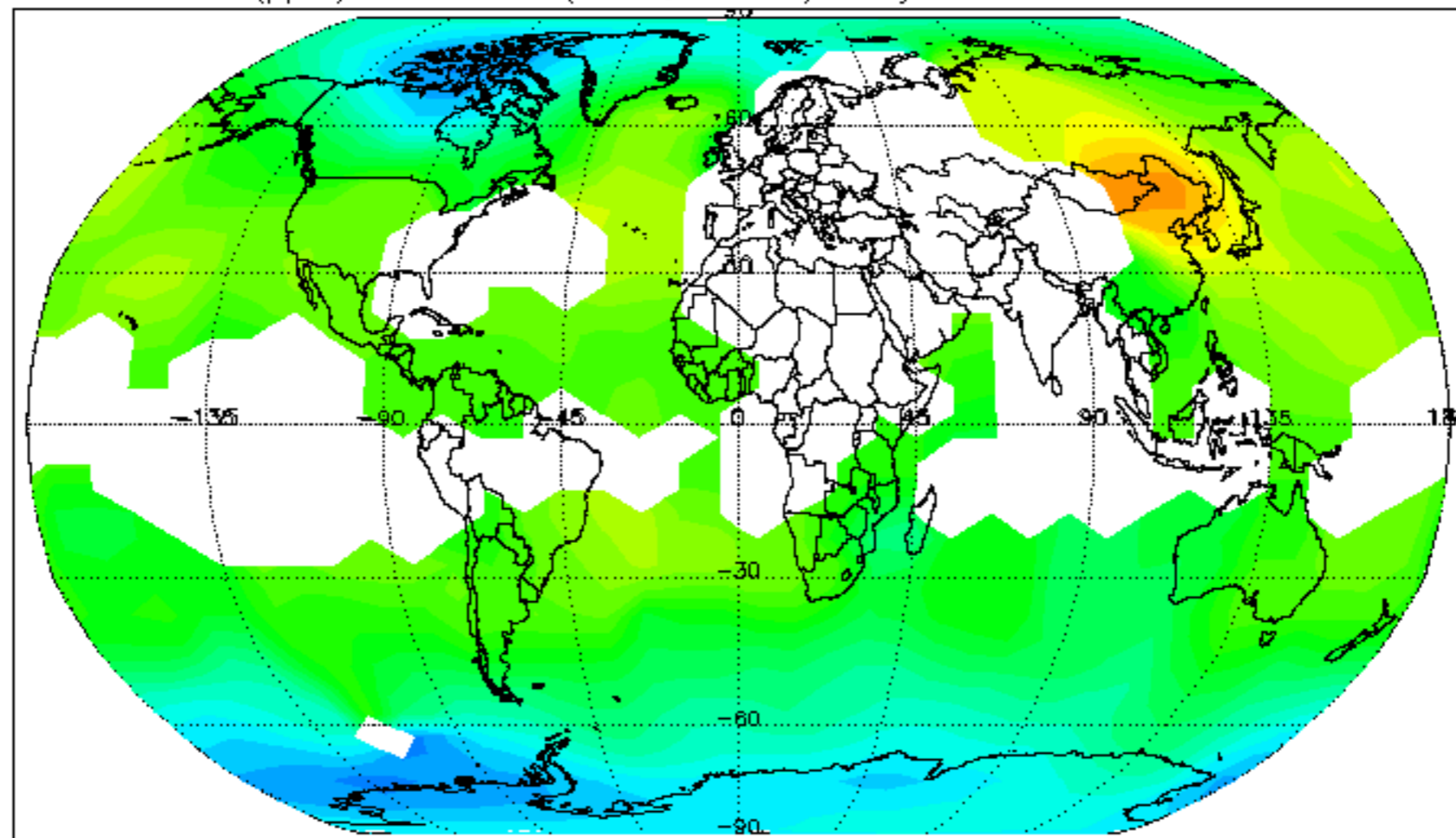
Temp (K) at: 1700 K (45km, 1.5hPa). Daily mean: 28-FEB-2012



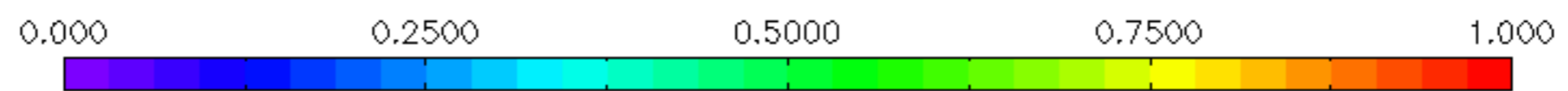
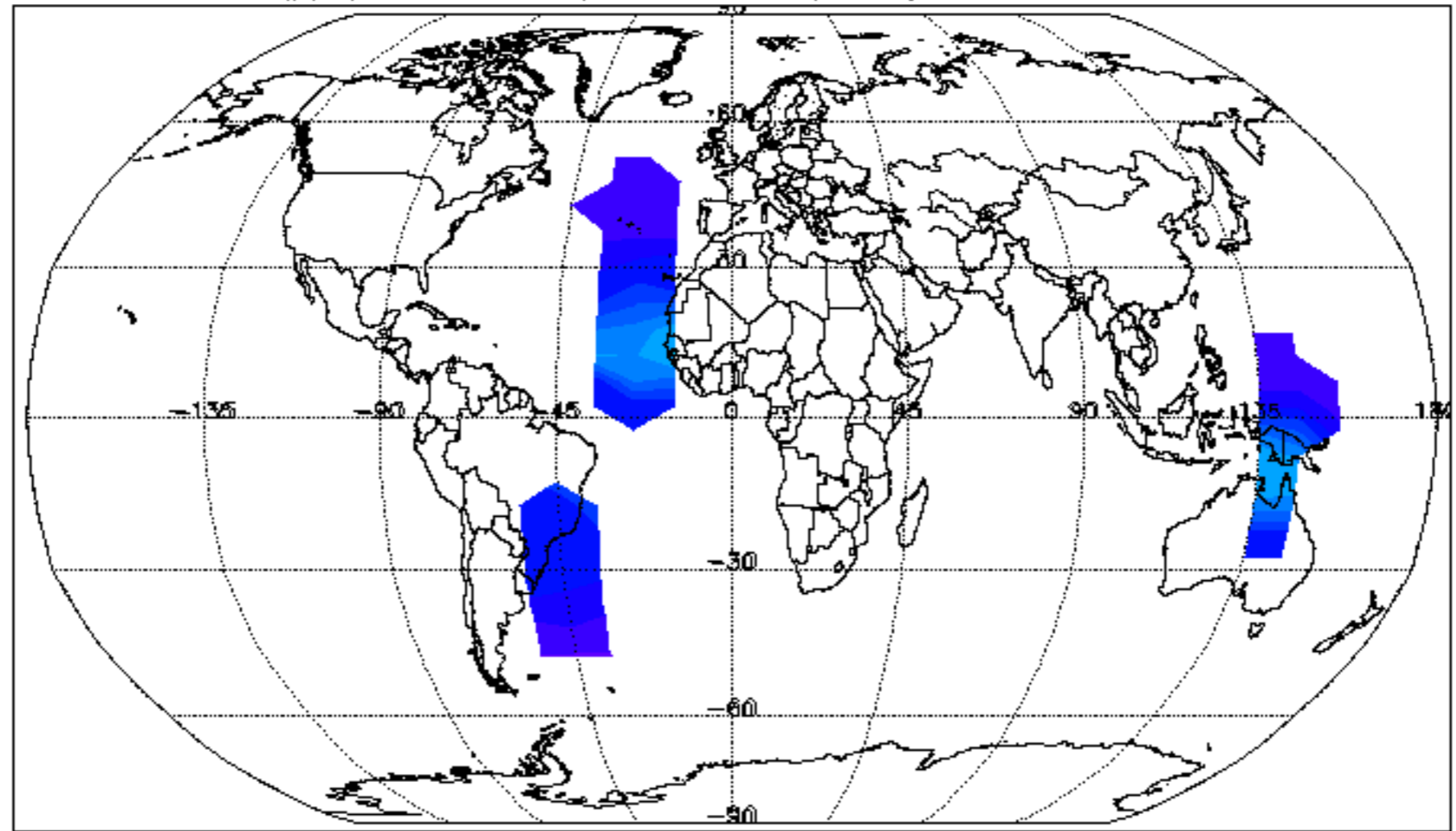
H<sub>2</sub>O (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 28-FEB-2012



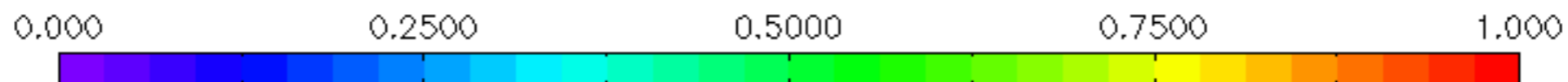
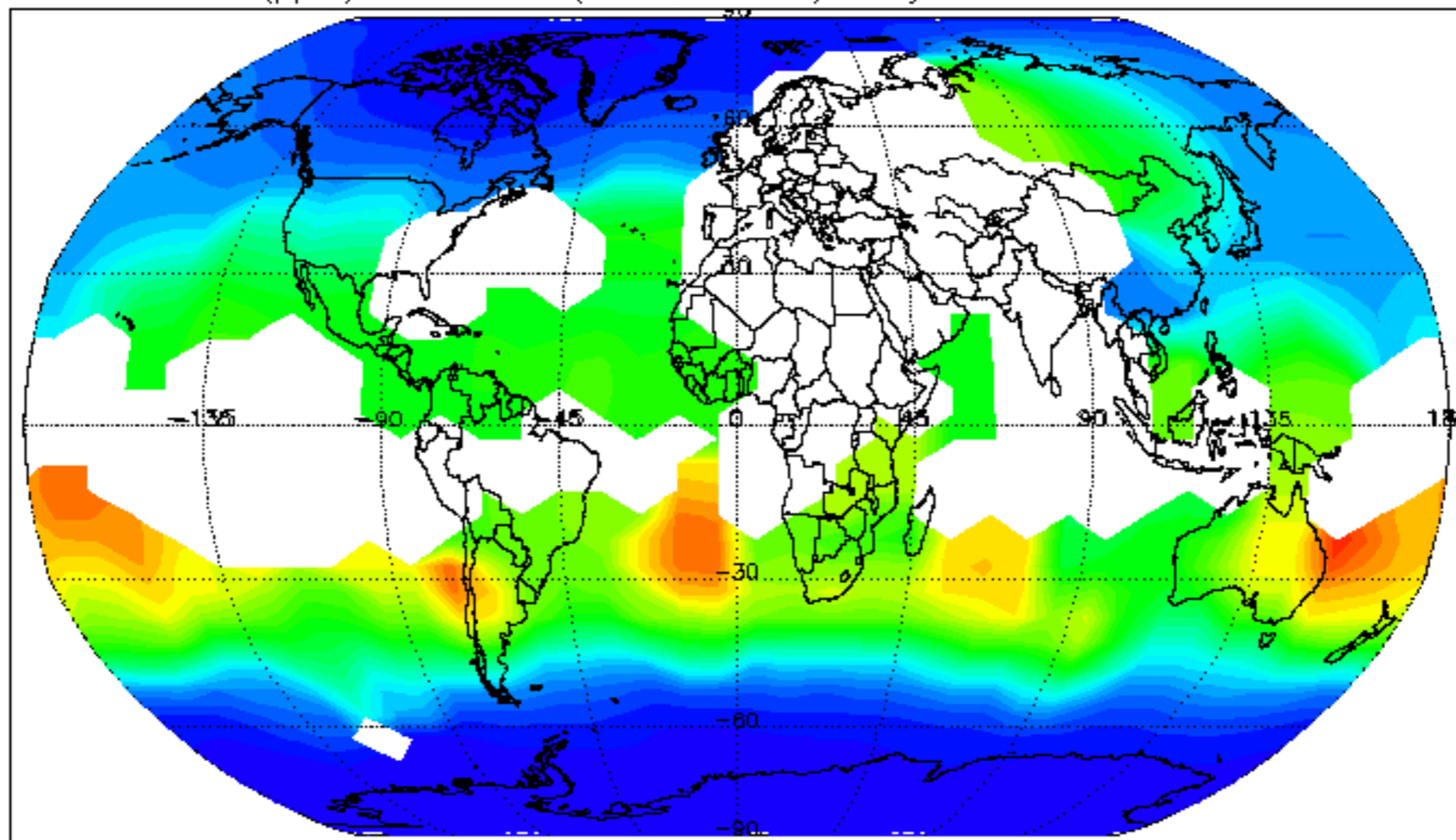
O<sub>3</sub> (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 28-FEB-2012



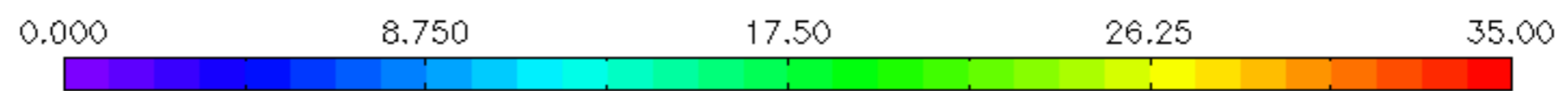
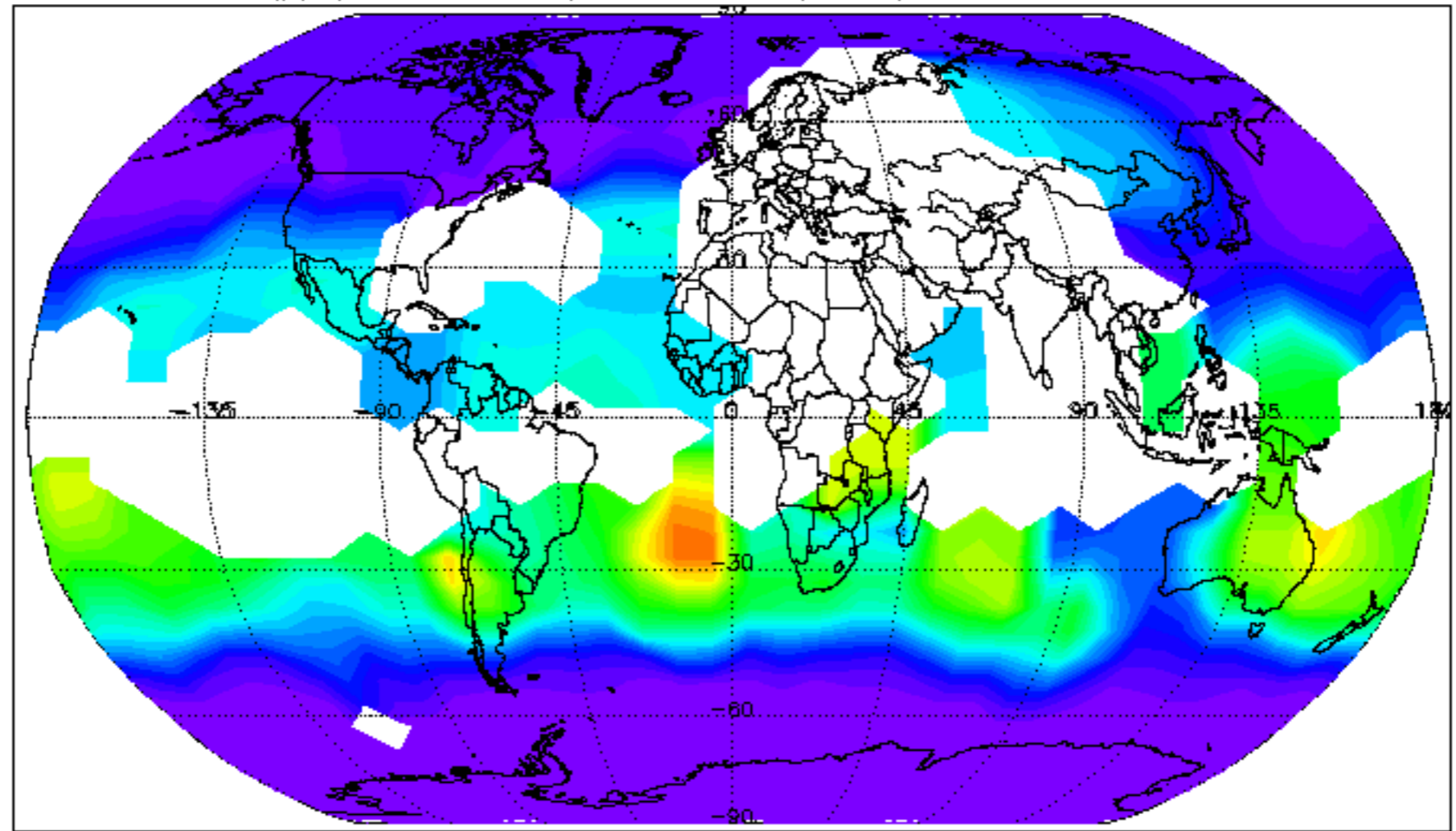
HNO<sub>3</sub> (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 28-FEB-2012



CH<sub>4</sub> (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 28-FEB-2012

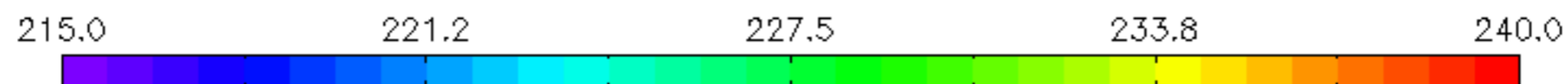
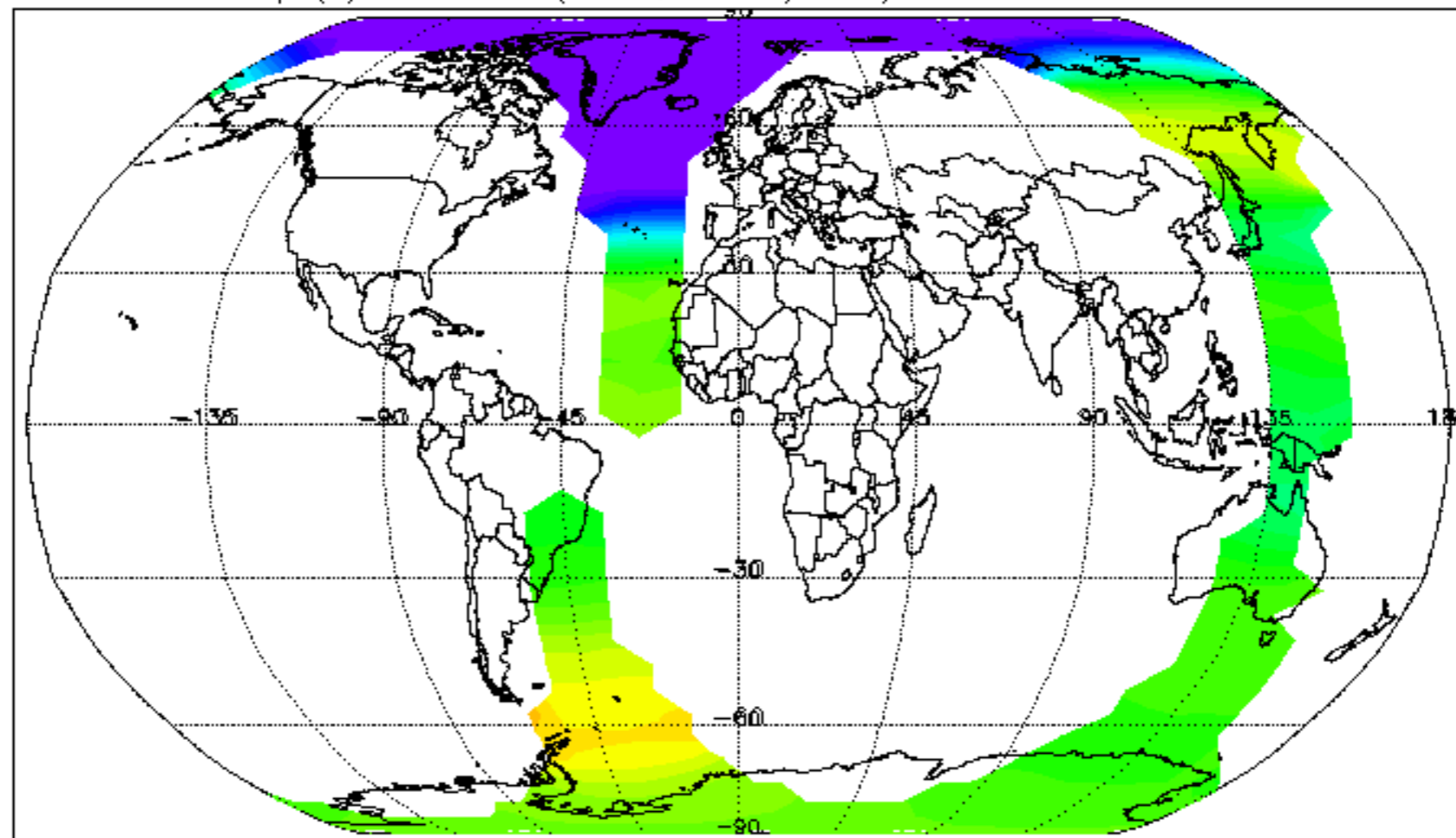


N<sub>2</sub>O (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 28-FEB-2012

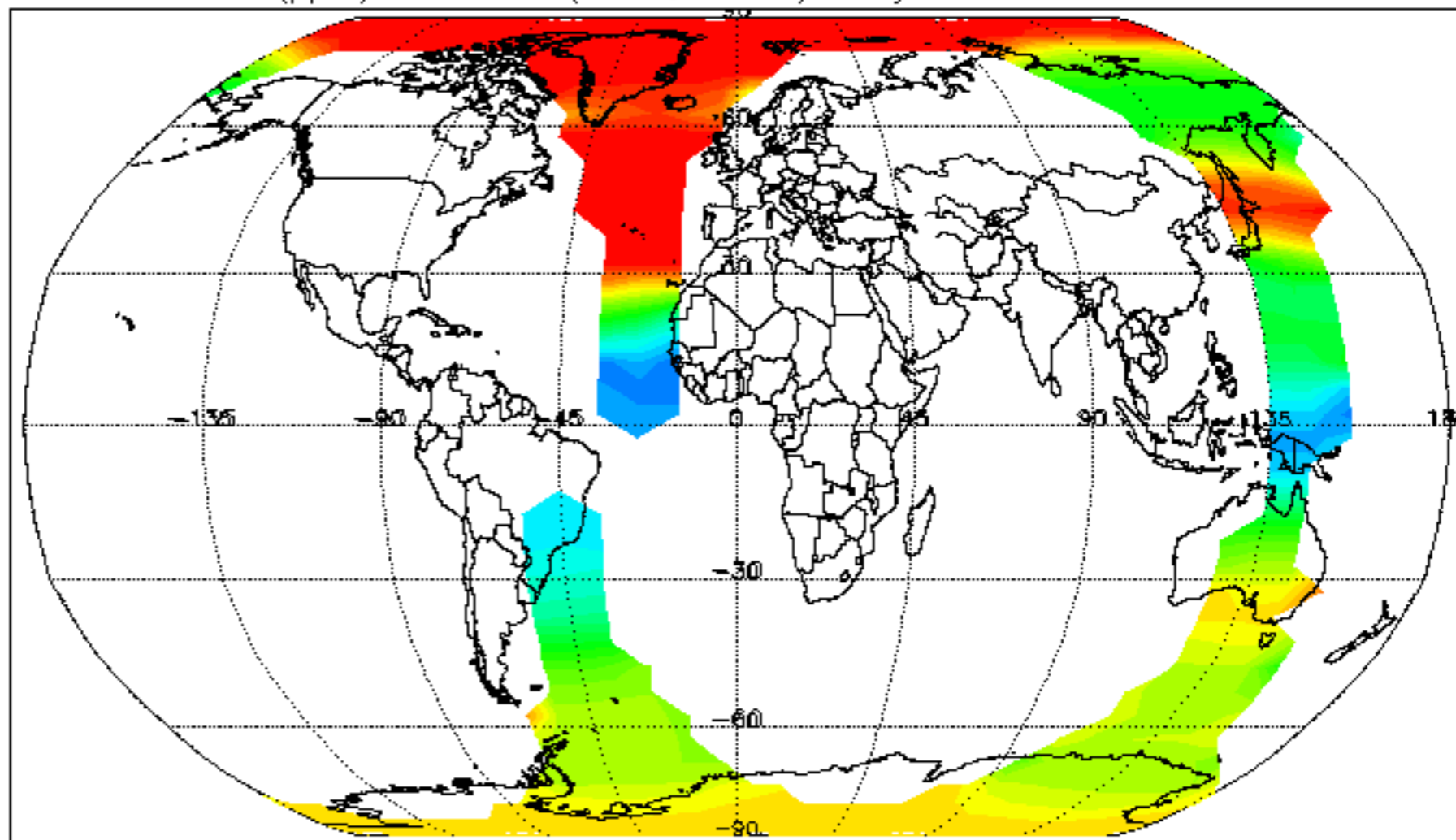




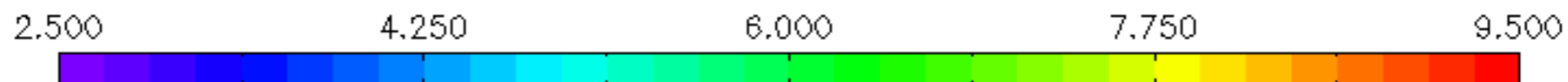
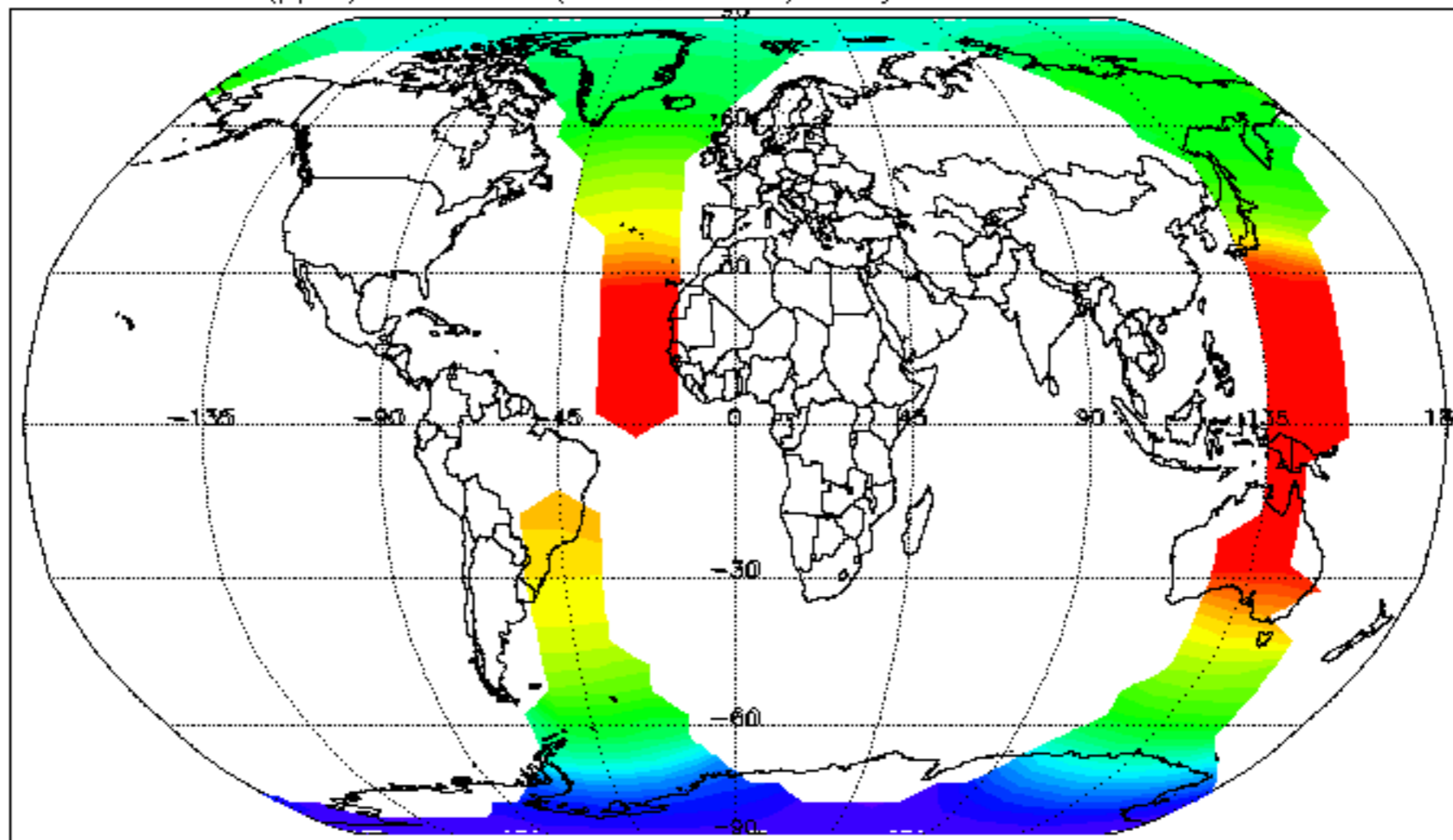
Temp (K) at: 850 K (32km, 10hPa). Daily mean: 28-FEB-2012



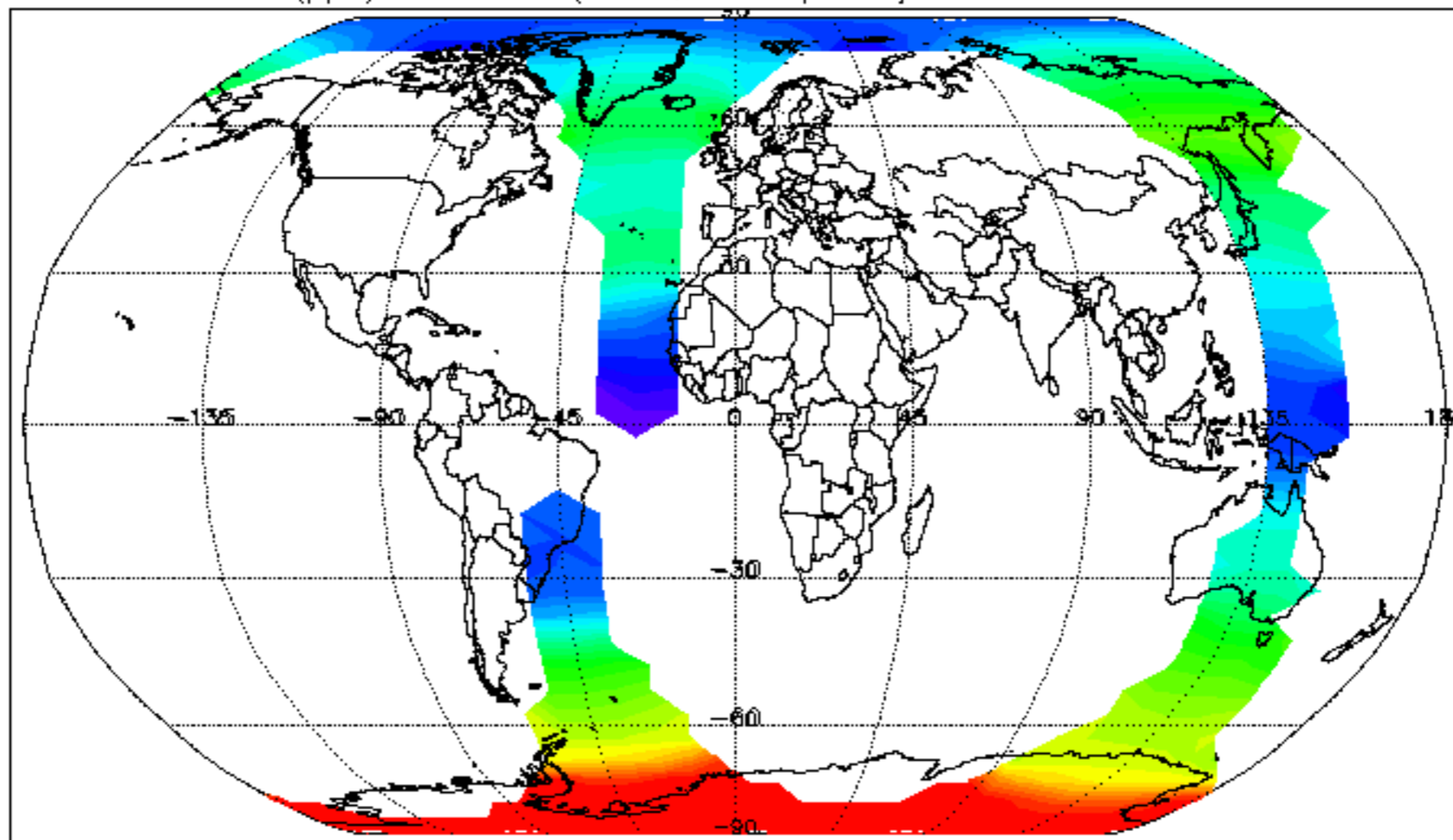
H<sub>2</sub>O (ppm) at: 850 K (32km, 10hPa). Daily mean: 28-FEB-2012



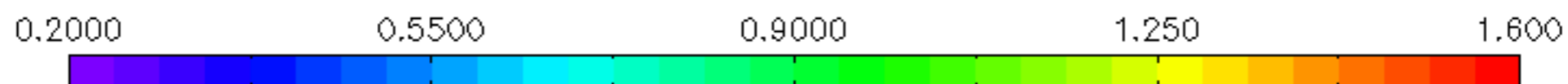
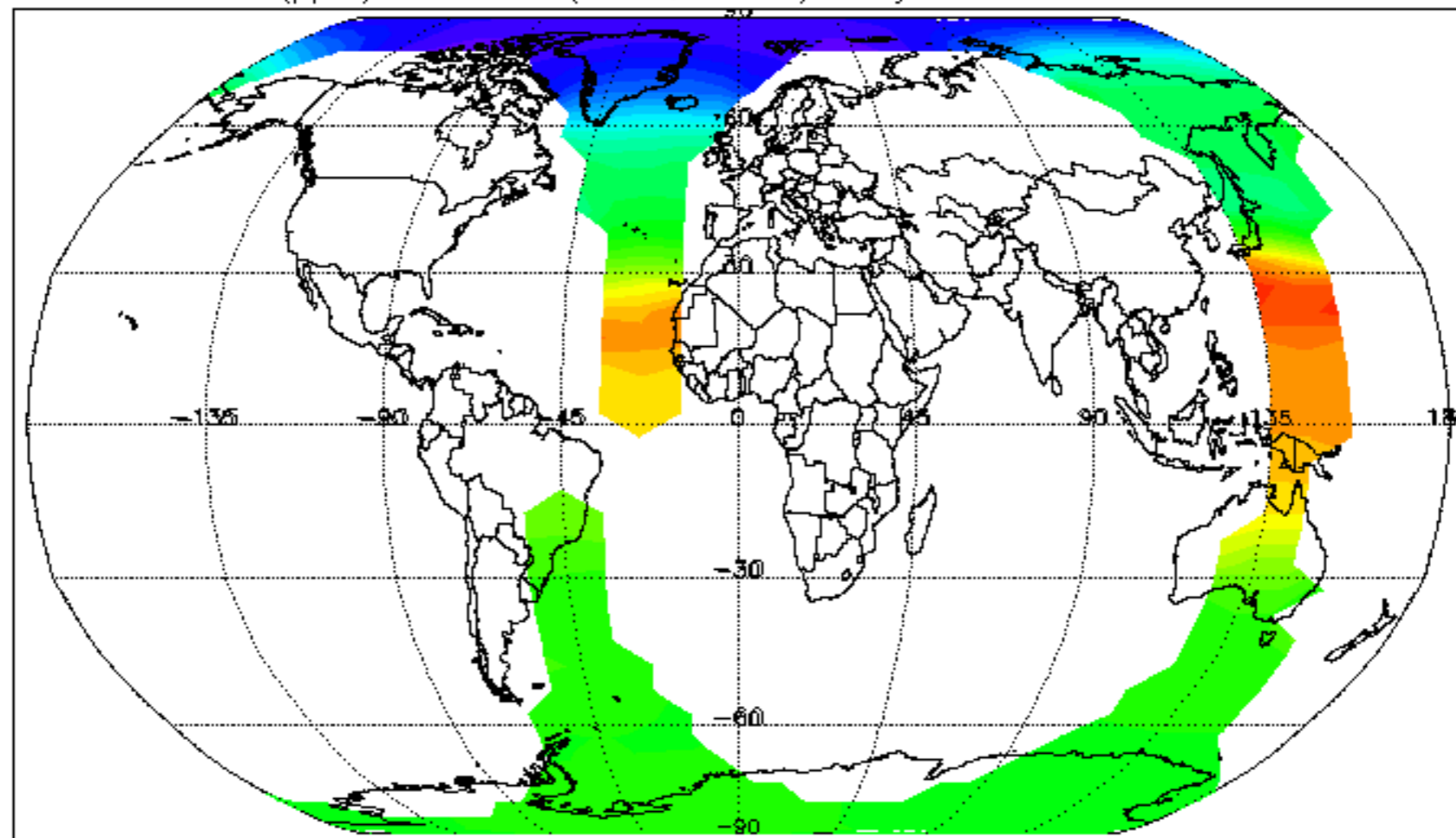
O<sub>3</sub> (ppm) at: 850 K (32km, 10hPa). Daily mean: 28-FEB-2012



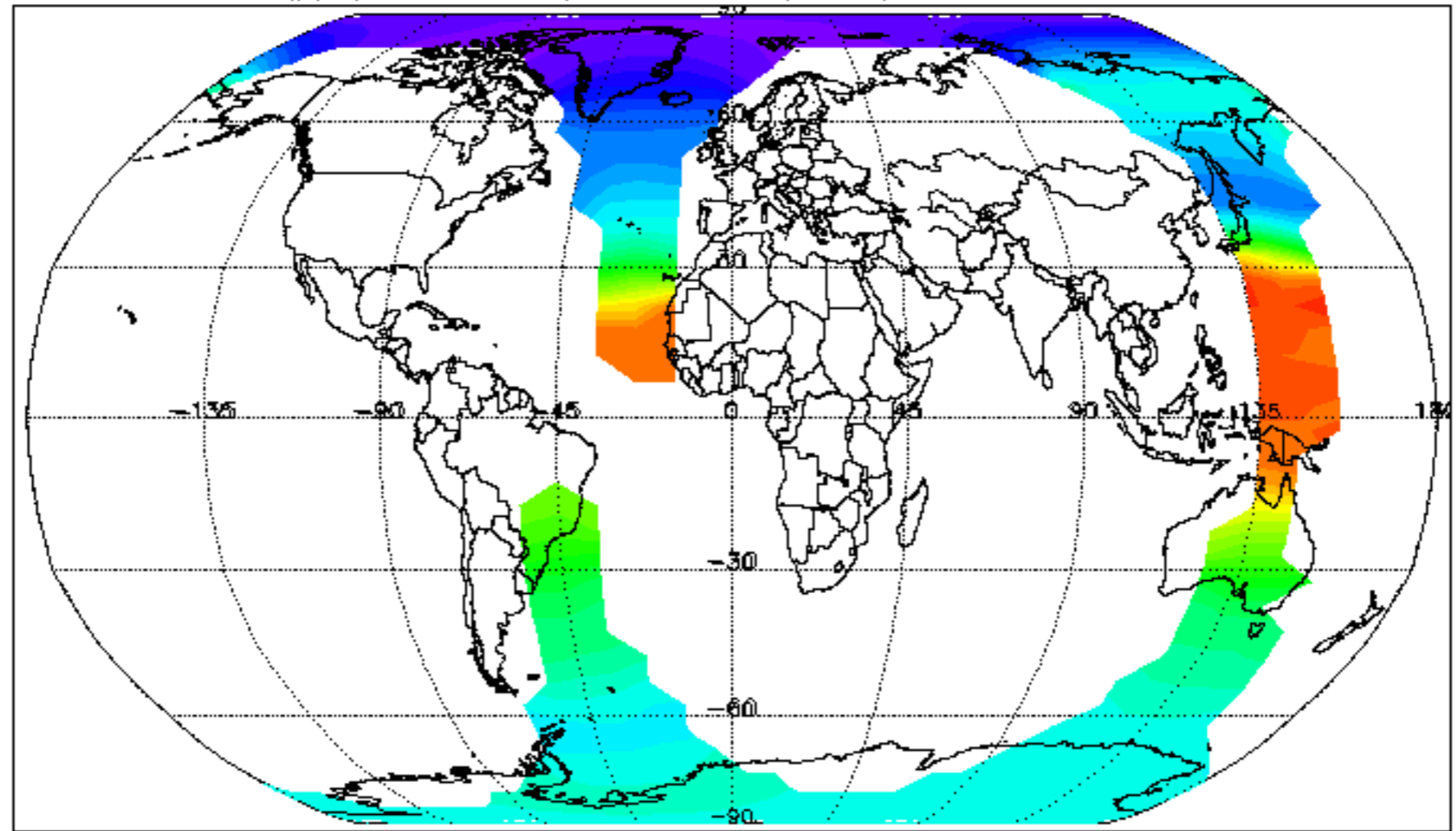
HN03 (ppb) at: 850 K (32km, 10hPa). Daily mean: 28-FEB-2012



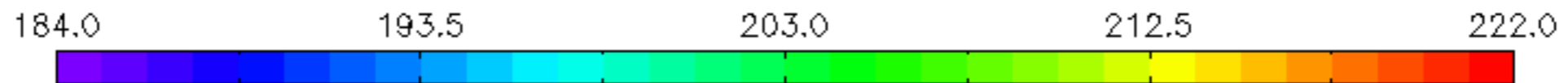
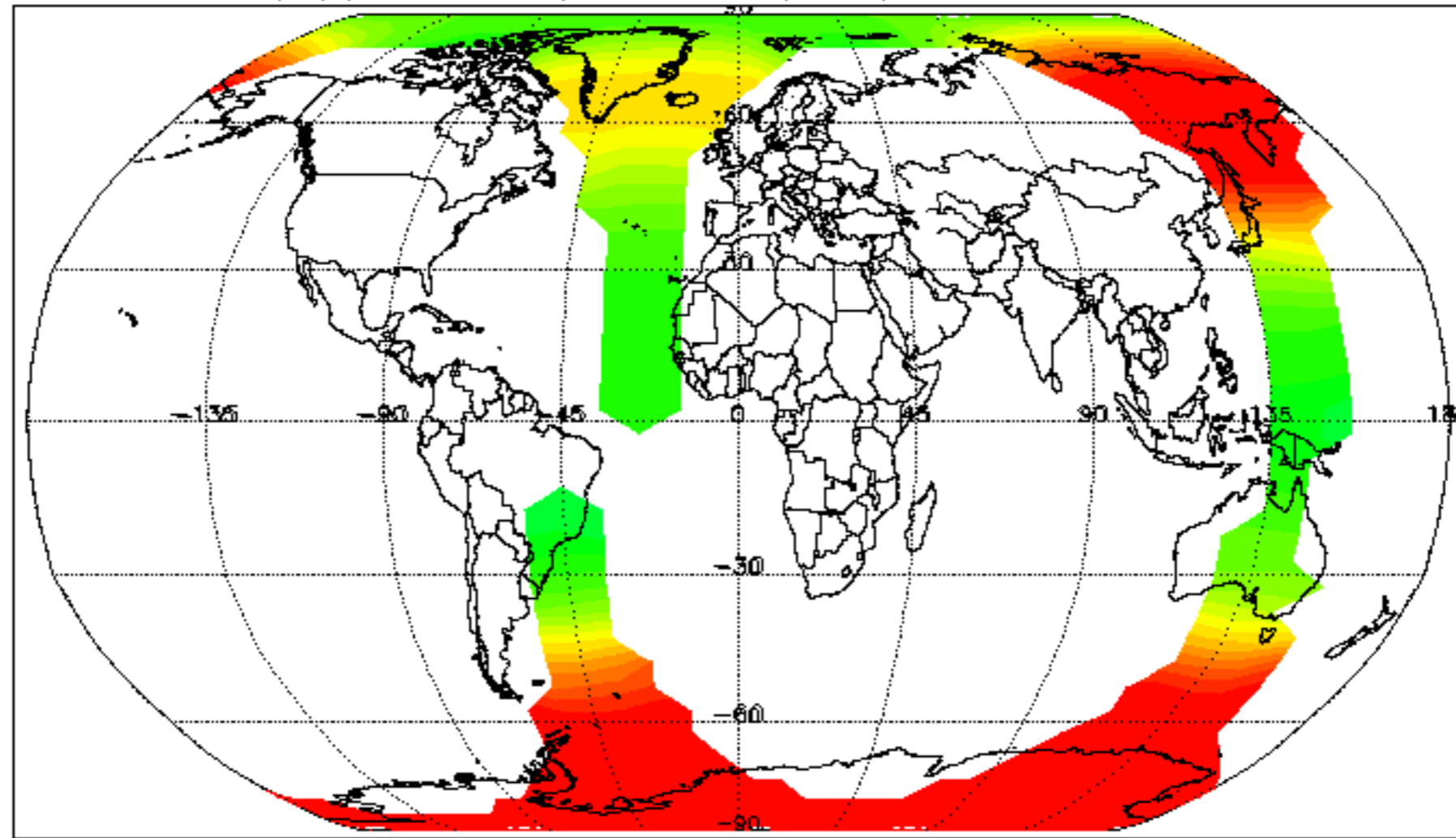
CH<sub>4</sub> (ppm) at: 850 K (32km, 10hPa). Daily mean: 28-FEB-2012



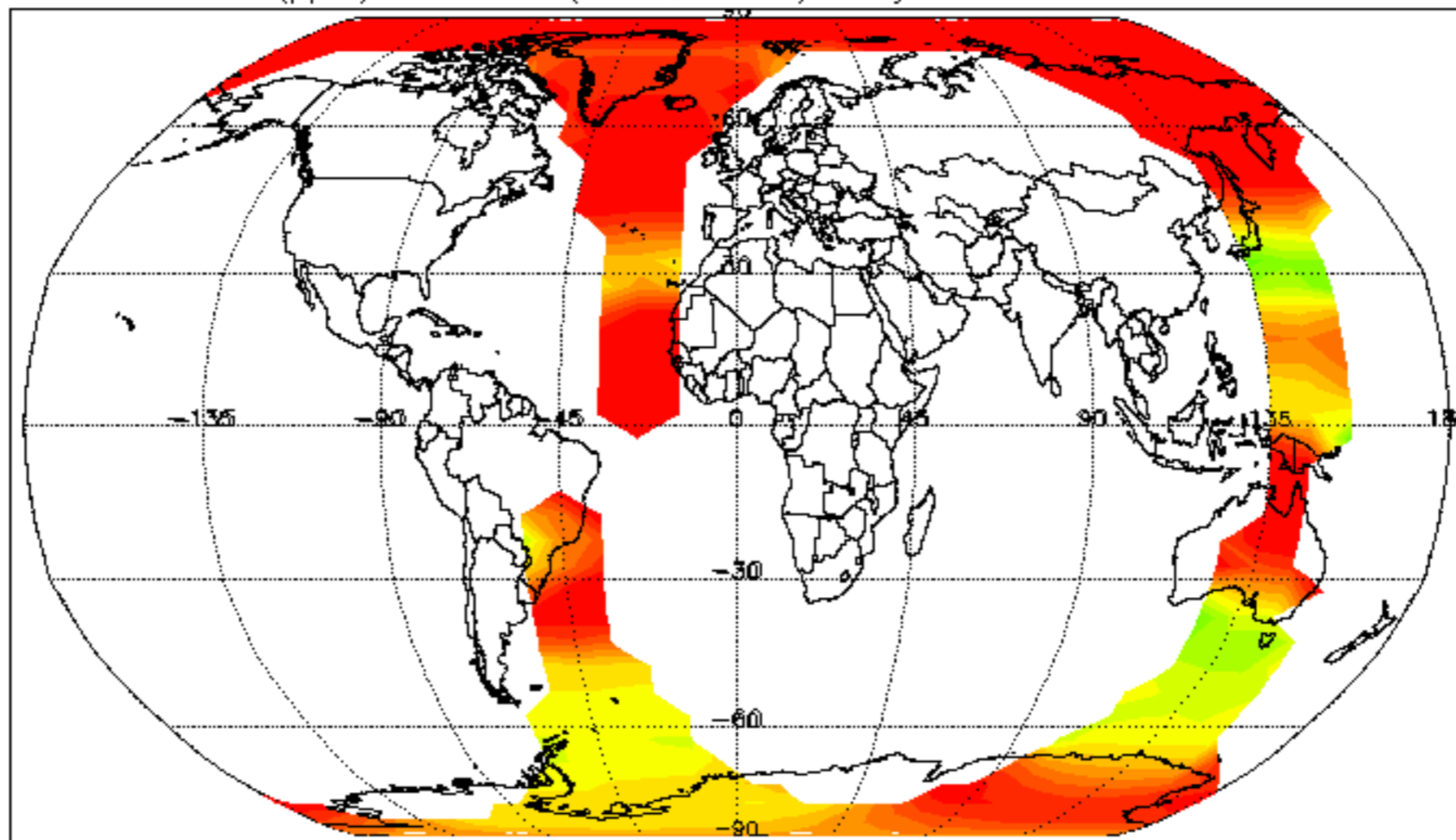
N2O (ppb) at: 850 K (32km, 10hPa). Daily mean: 28-FEB-2012



Temp (K) at: 490 K (19km, 55hPa). Daily mean: 28-FEB-2012

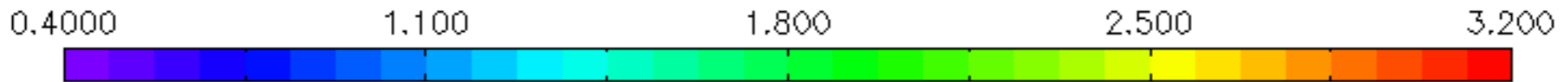
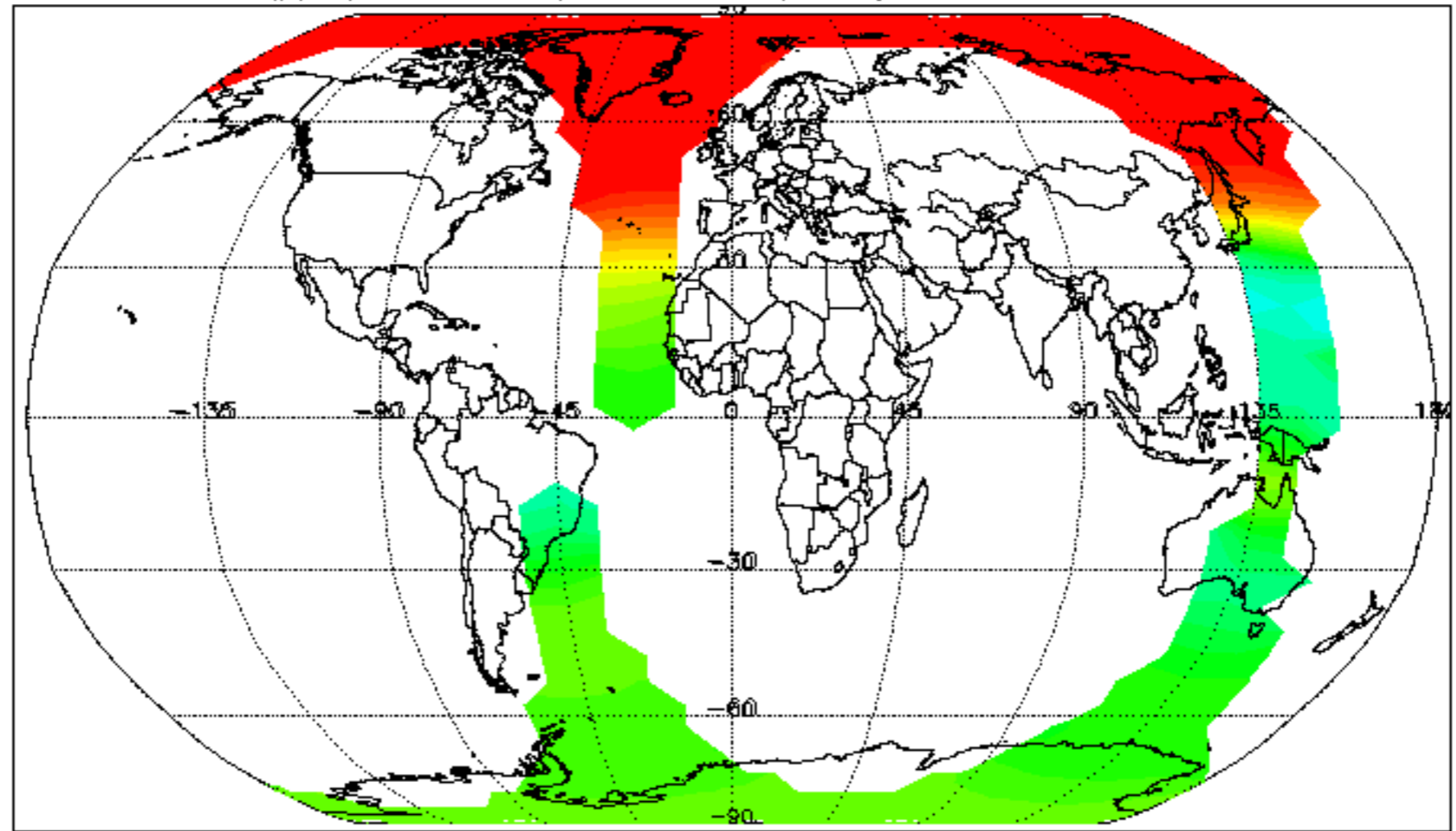


H<sub>2</sub>O (ppm) at: 490 K (19km, 55hPa). Daily mean: 28-FEB-2012

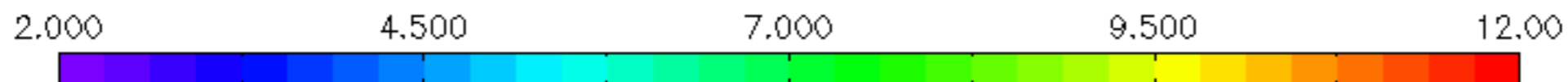
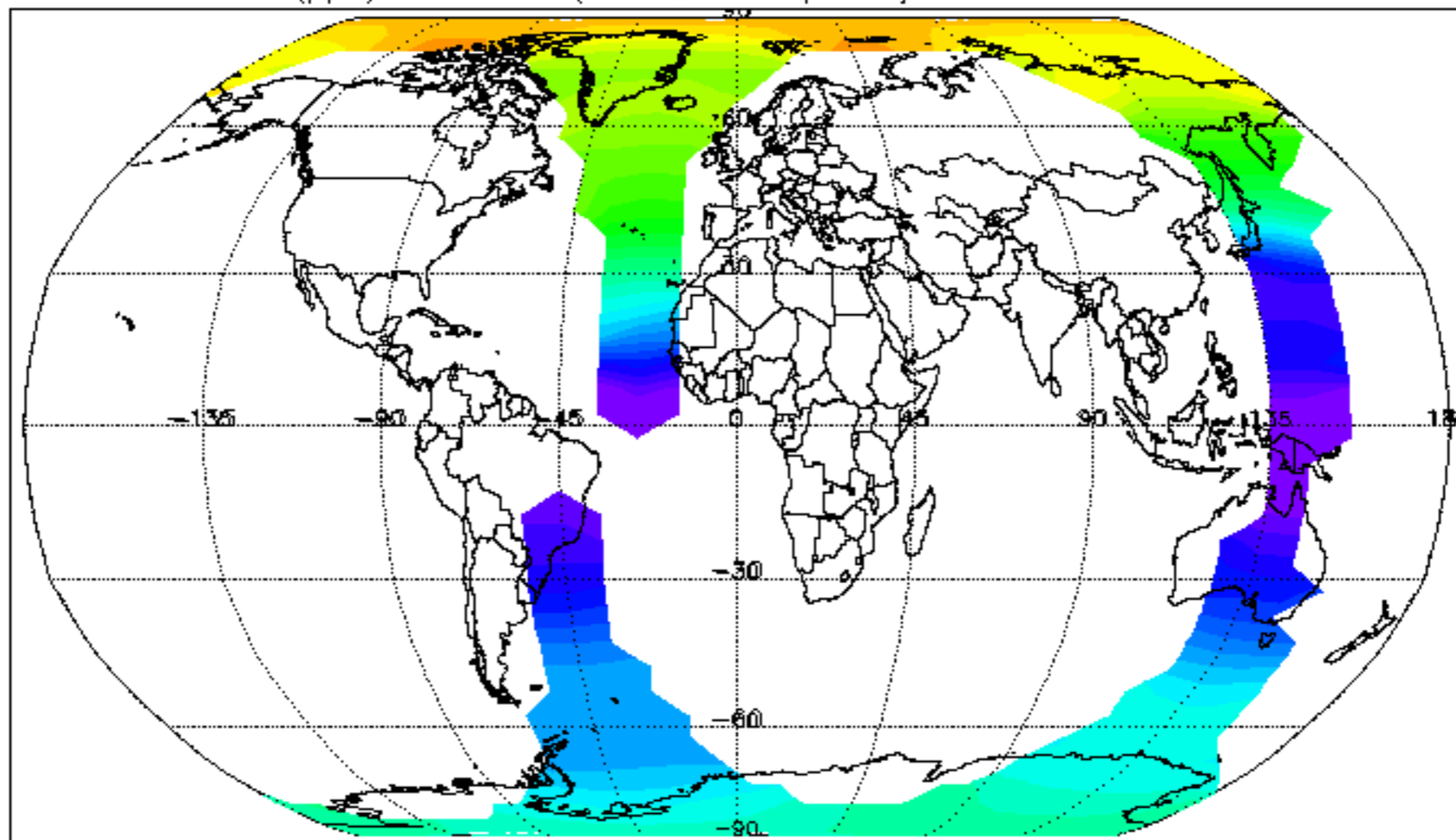




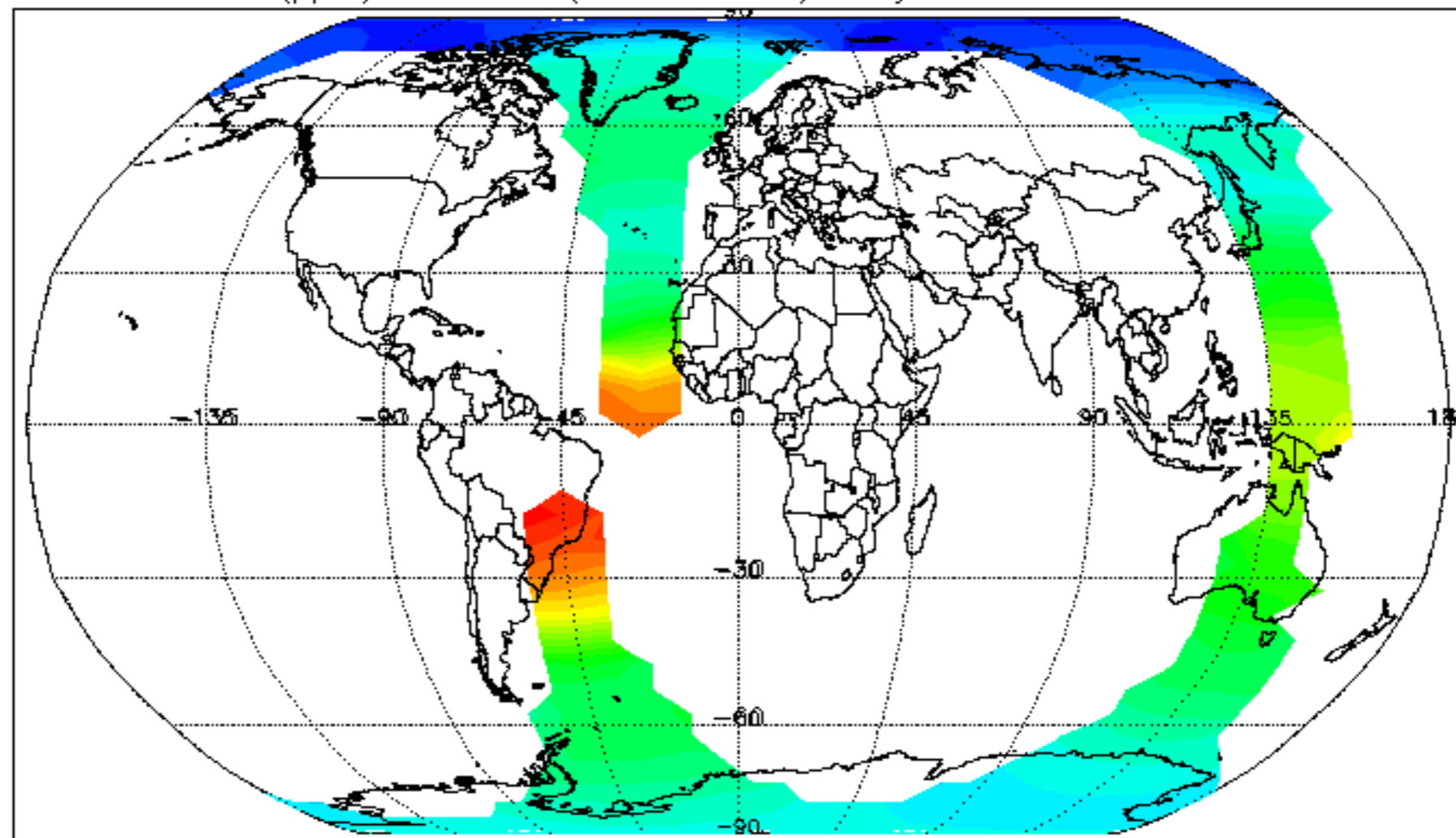
O3 (ppm) at: 490 K (19km, 55hPa). Daily mean: 28-FEB-2012



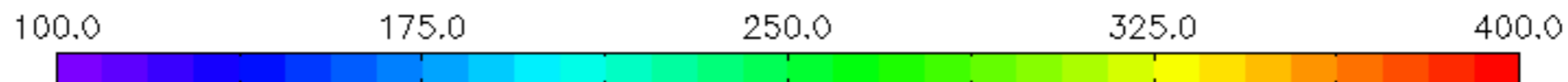
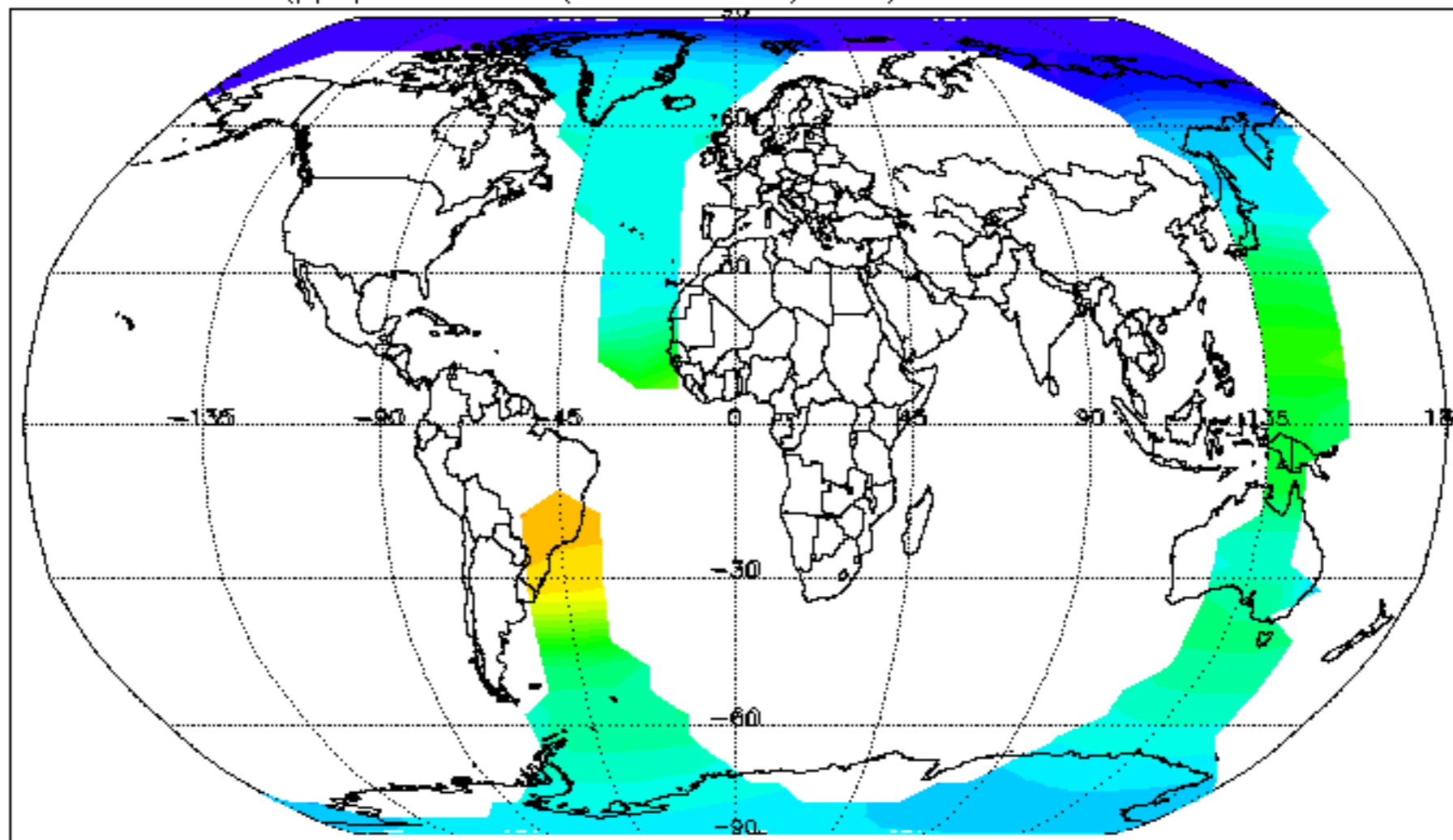
HN03 (ppb) at: 490 K (19km, 55hPa). Daily mean: 28-FEB-2012



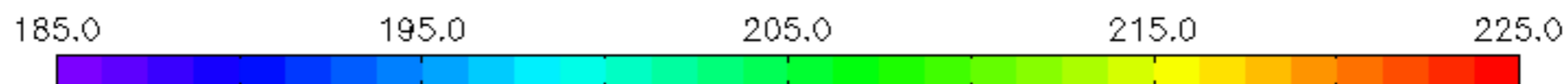
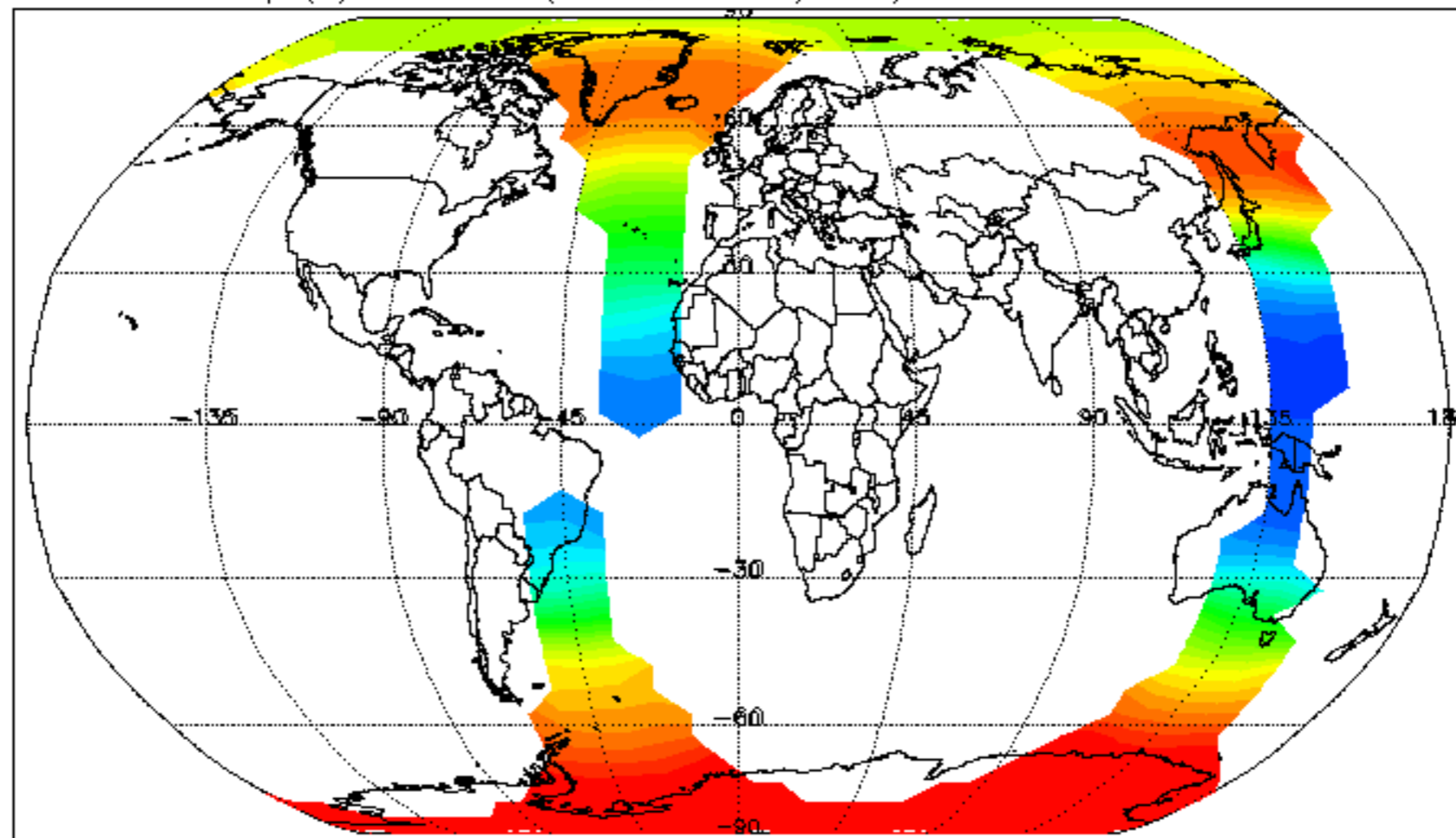
CH<sub>4</sub> (ppm) at: 490 K (19km, 55hPa). Daily mean: 28-FEB-2012



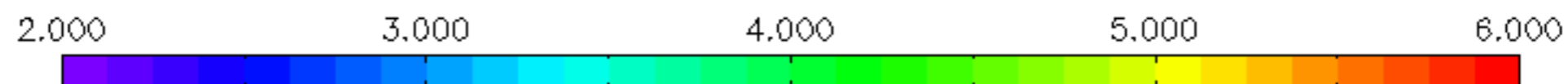
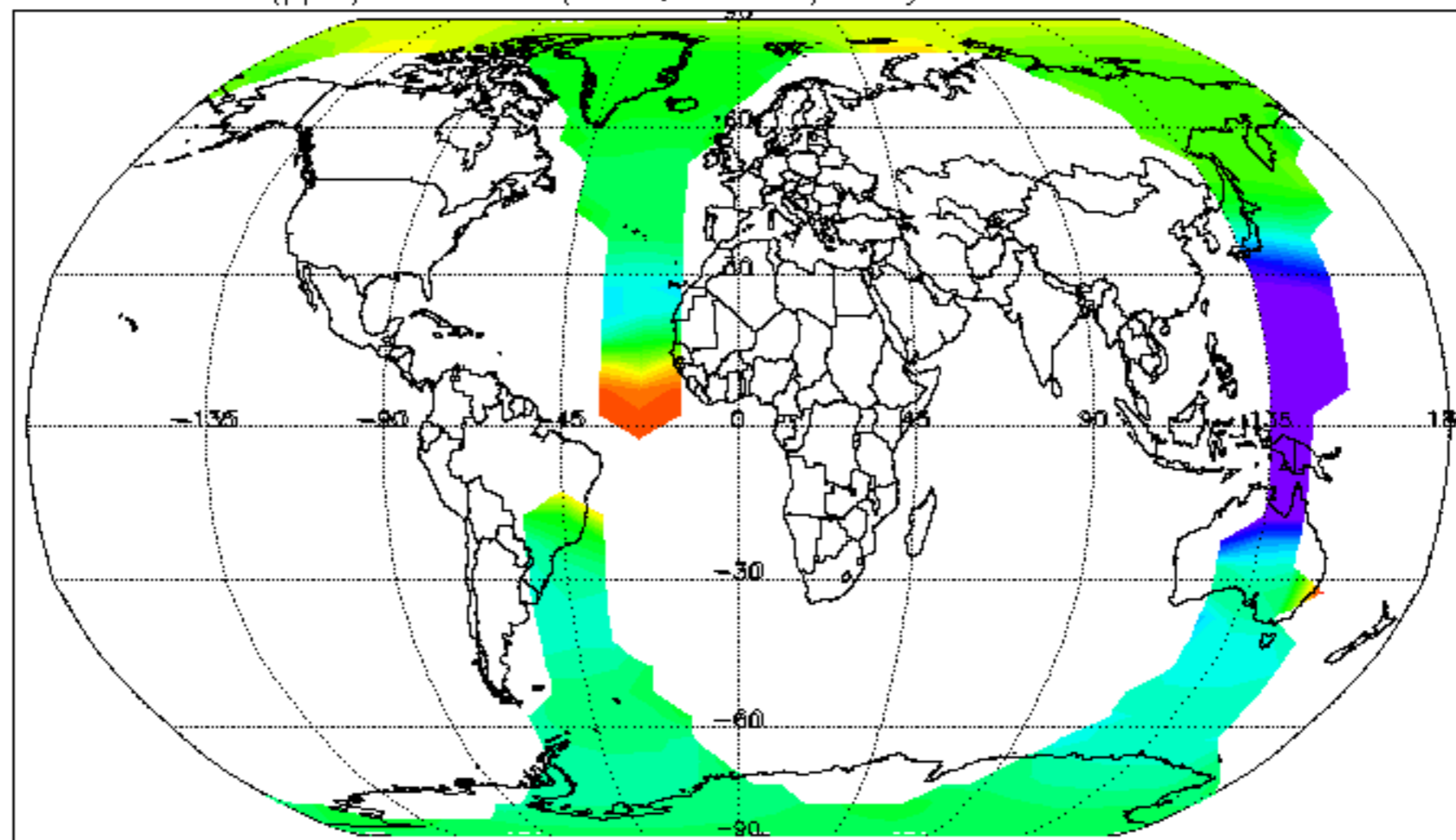
N<sub>2</sub>O (ppb) at: 490 K (19km, 55hPa). Daily mean: 28-FEB-2012



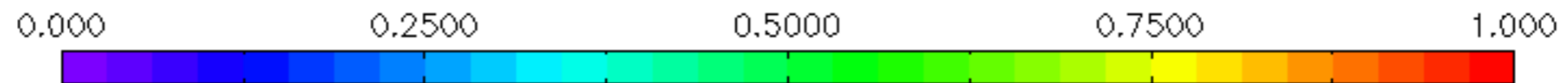
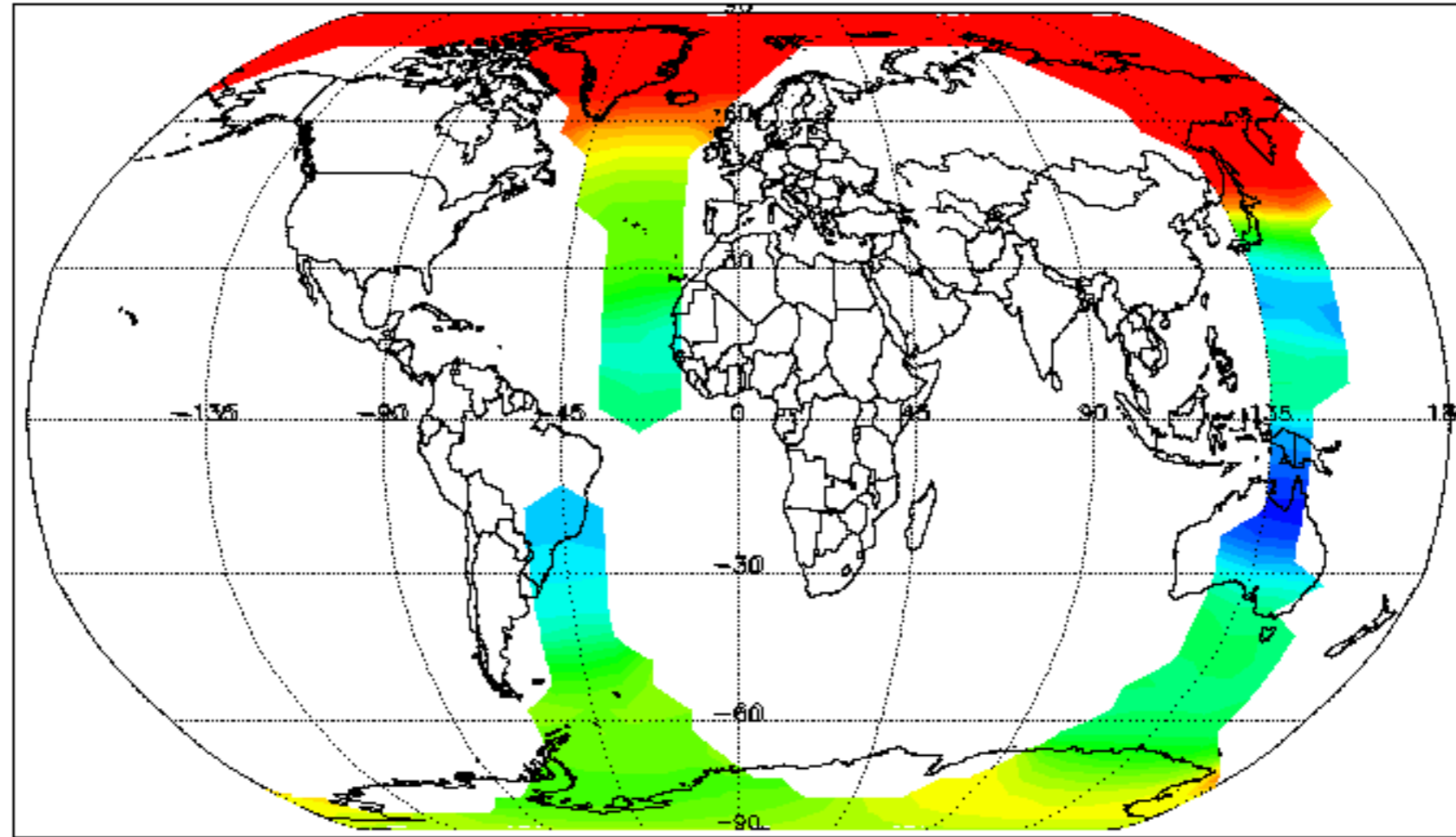
Temp (K) at: 410 K (16km, 100hPa). Daily mean: 28-FEB-2012



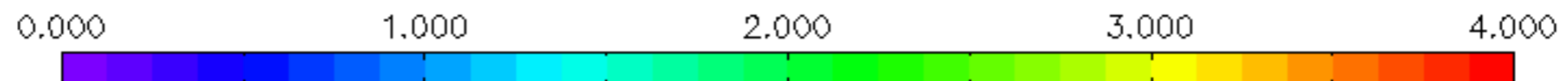
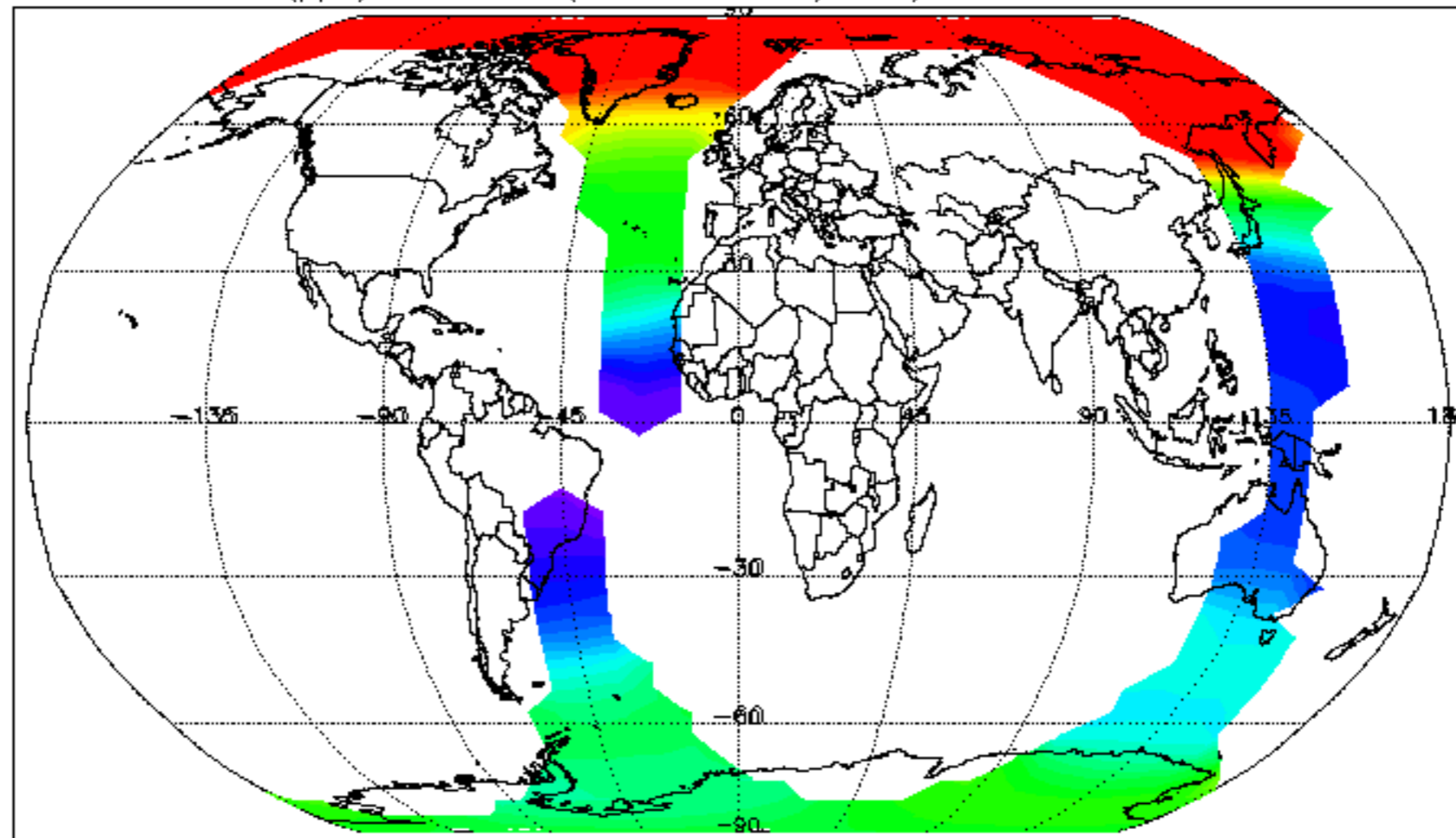
H<sub>2</sub>O (ppm) at: 410 K (16km, 100hPa). Daily mean: 28-FEB-2012



O3 (ppm) at: 410 K (16km, 100hPa). Daily mean: 28-FEB-2012

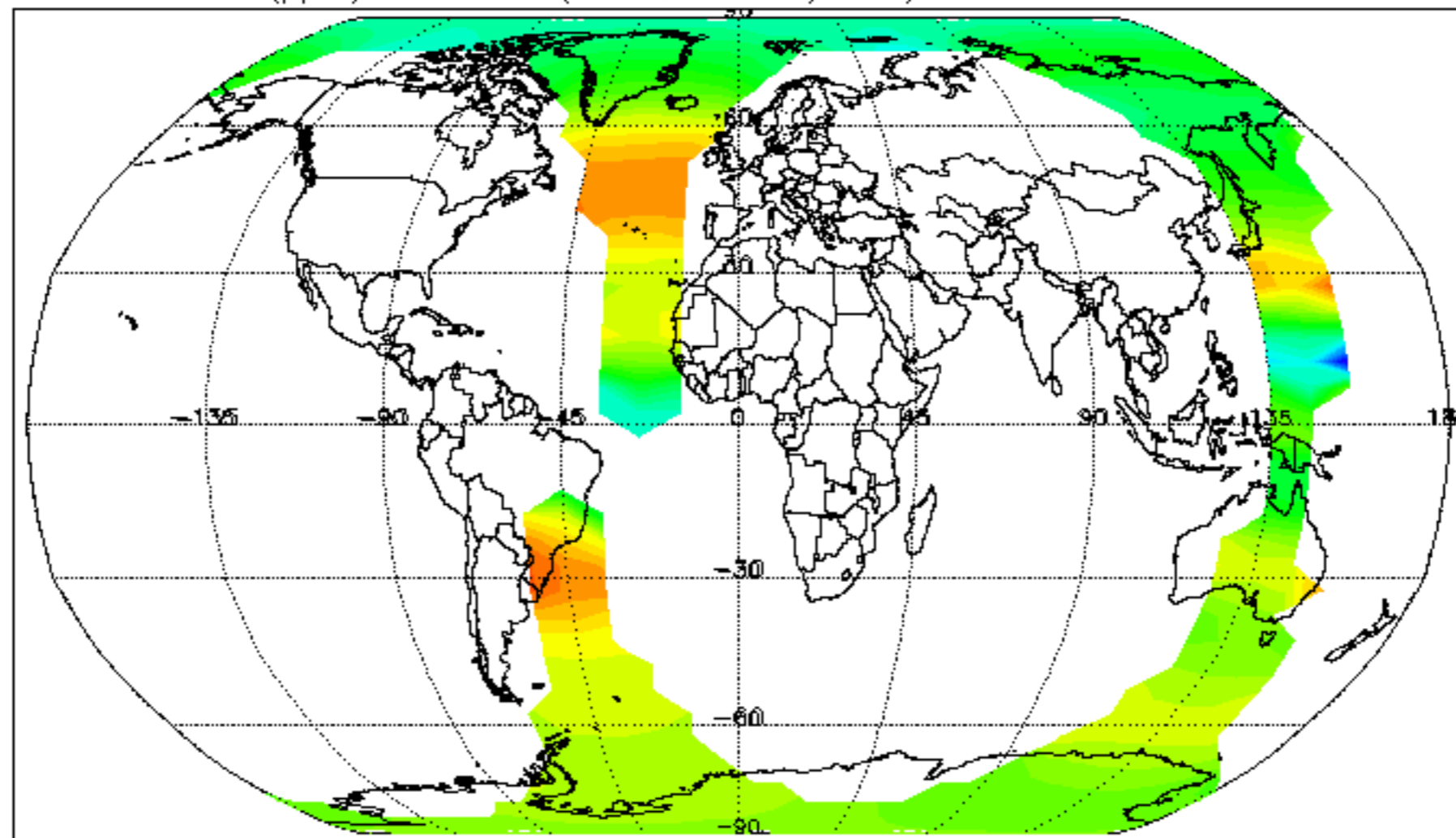


HN03 (ppb) at: 410 K (16km, 100hPa). Daily mean: 28-FEB-2012

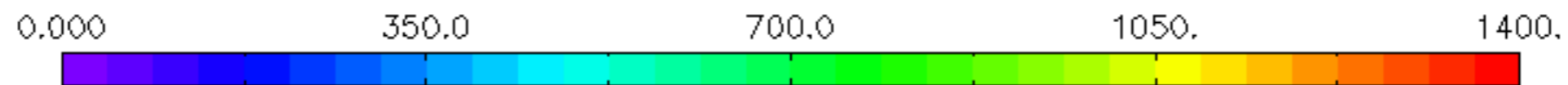
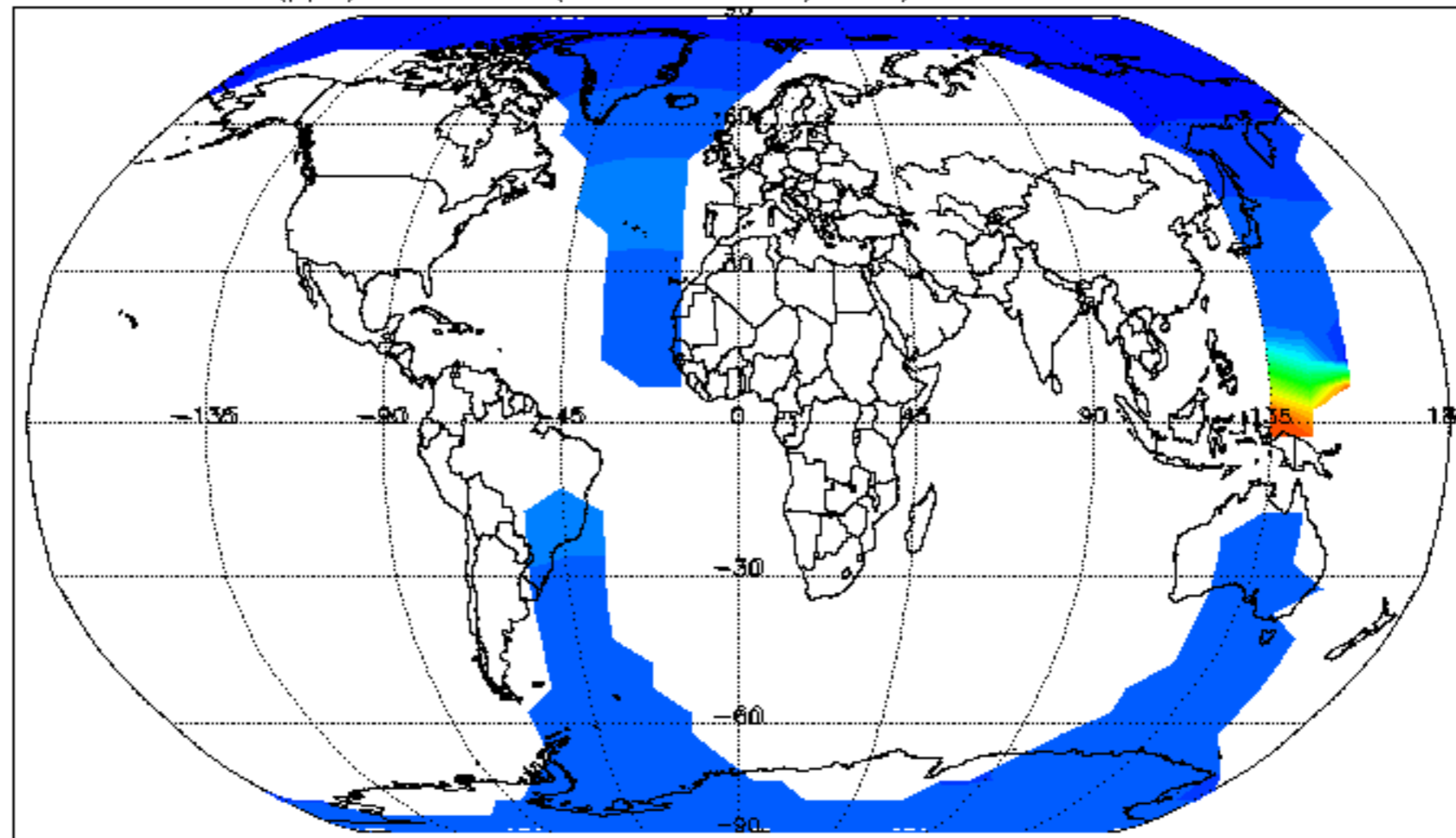




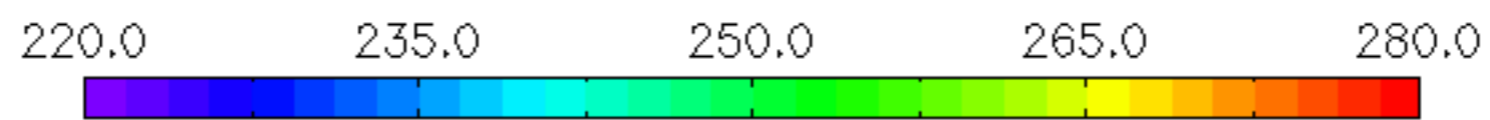
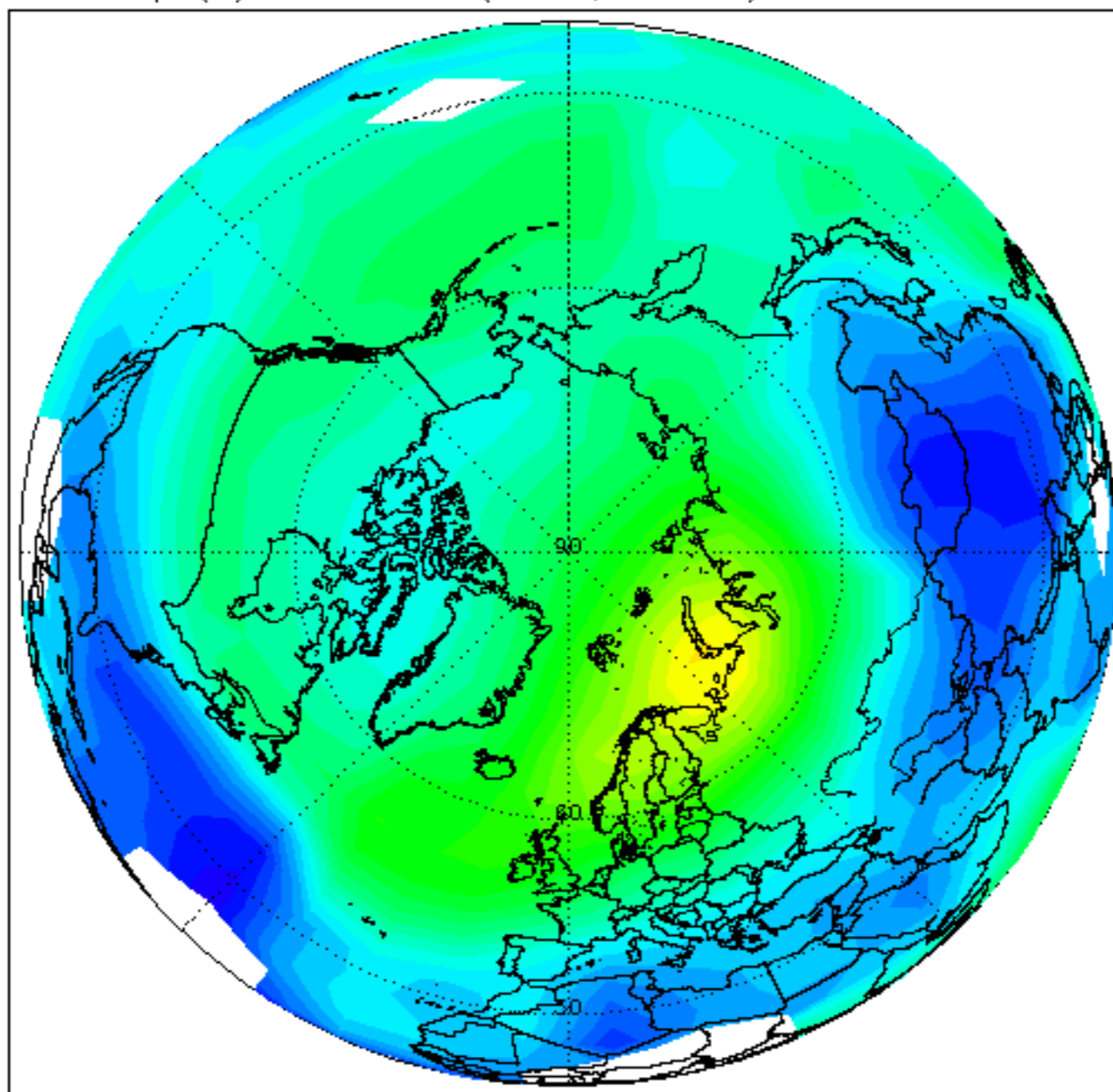
CH<sub>4</sub> (ppm) at: 410 K (16km, 100hPa). Daily mean: 28-FEB-2012



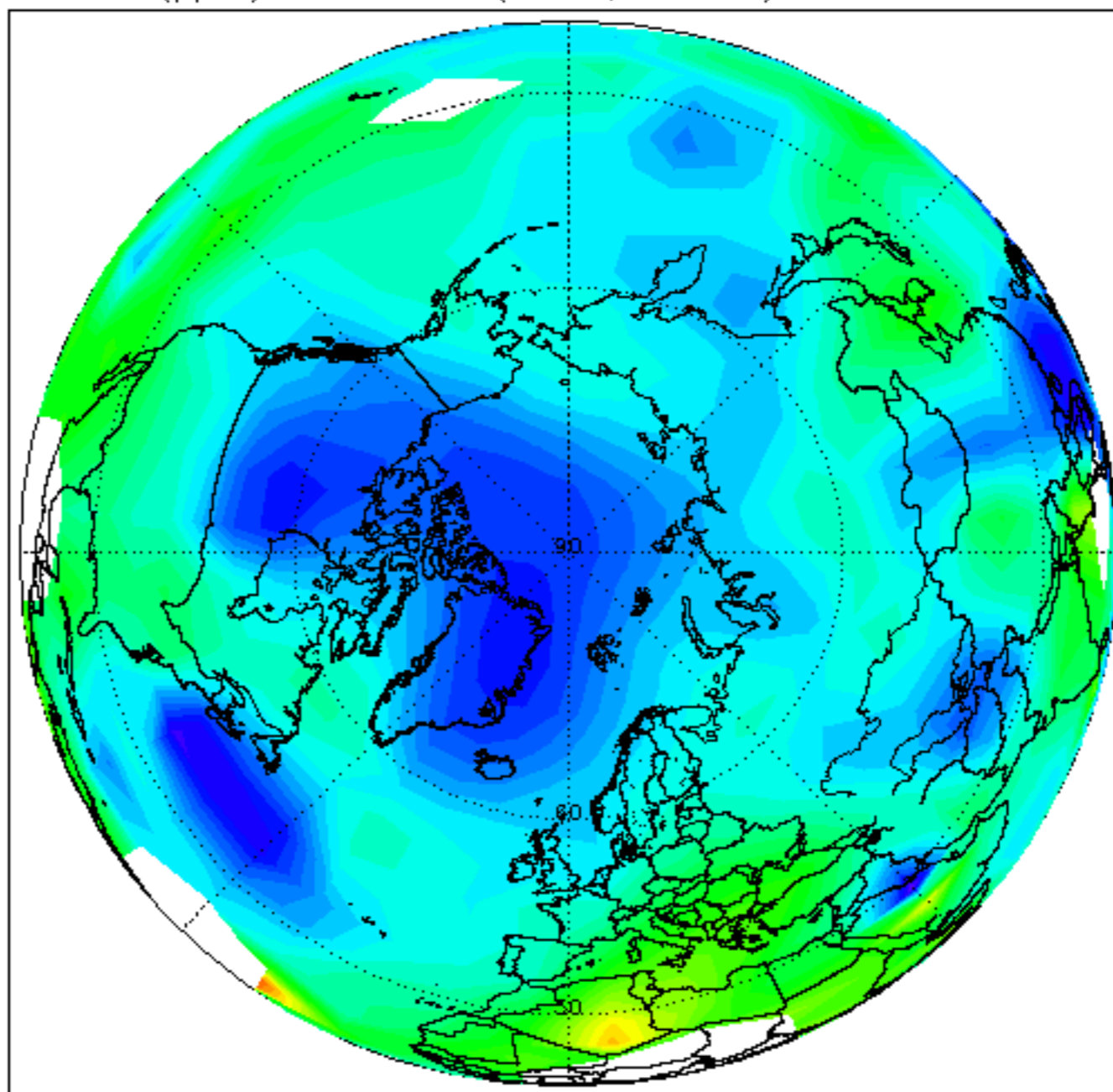
N<sub>2</sub>O (ppb) at: 410 K (16km, 100hPa). Daily mean: 28-FEB-2012



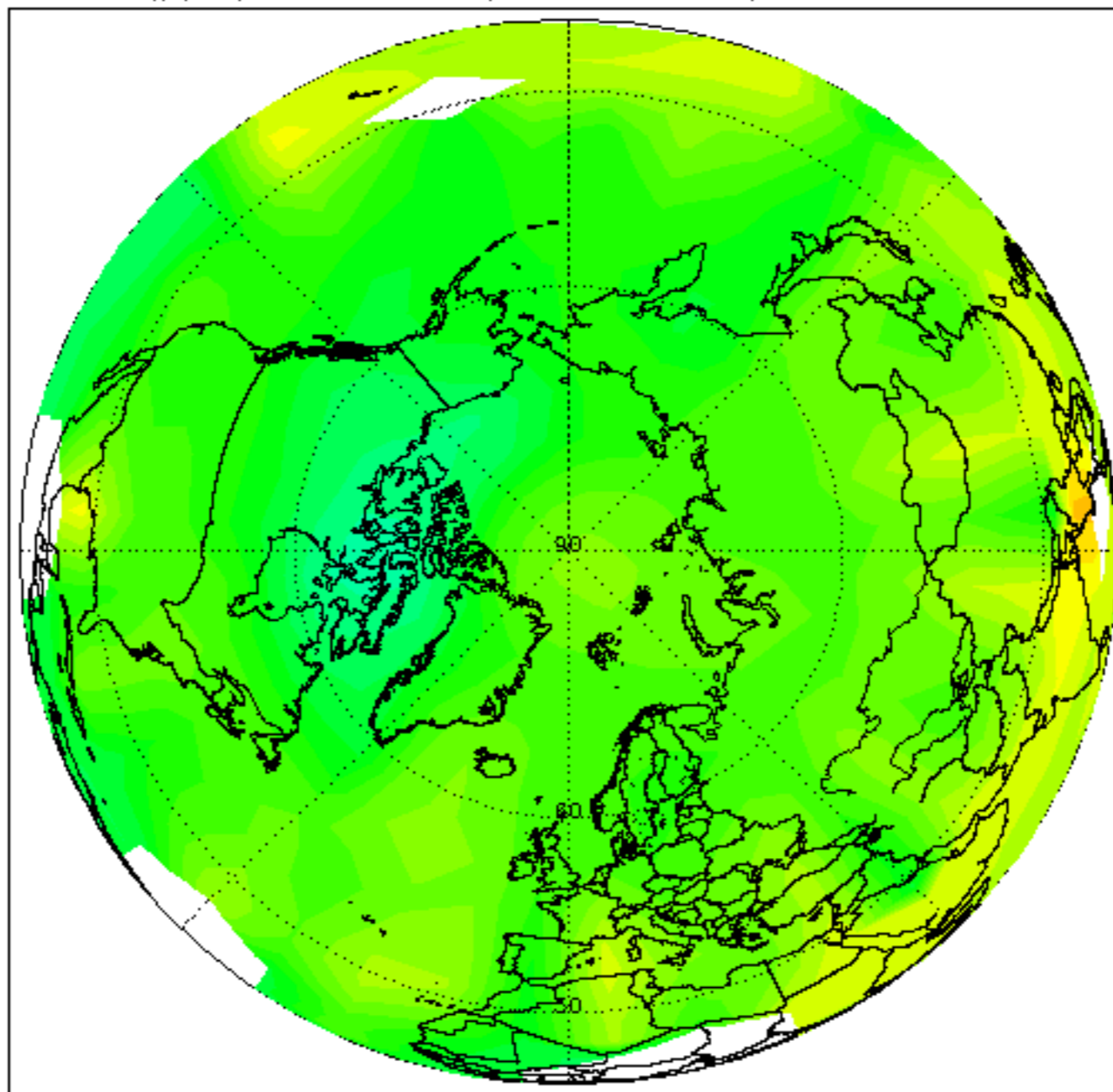
Temp (K) at 2700 K (60km, 0.2hPa). 28-FEB-2012



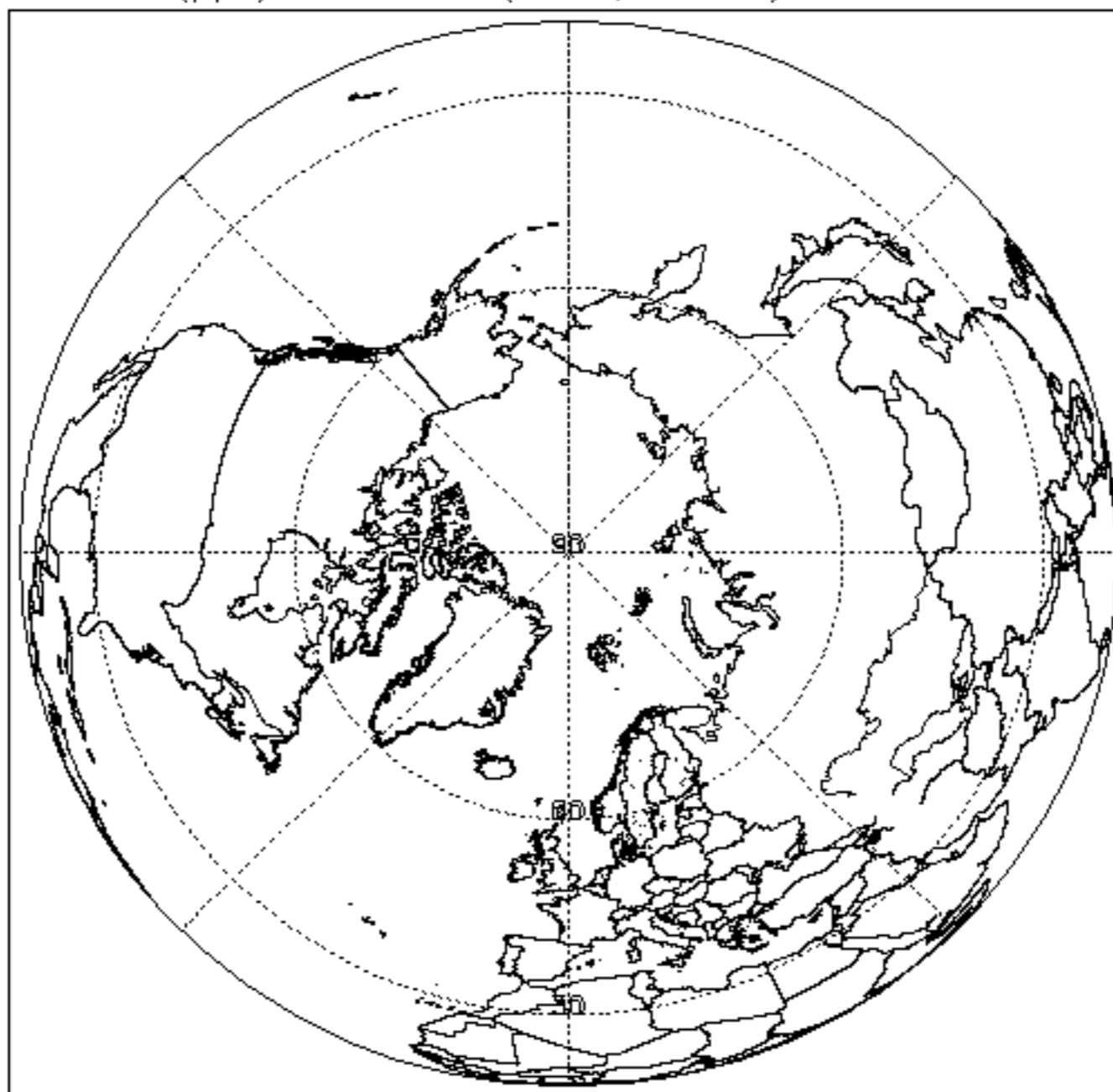
H<sub>2</sub>O (ppm) at 2700 K (60km, 0.2hPa). 28-FEB-2012



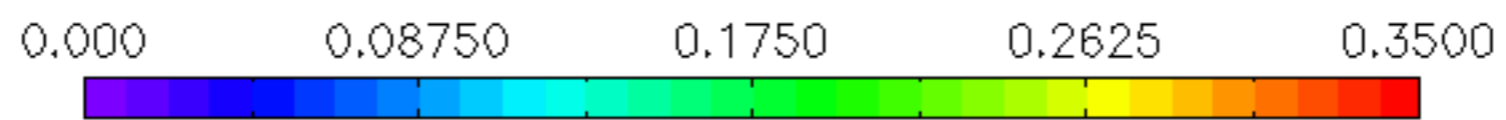
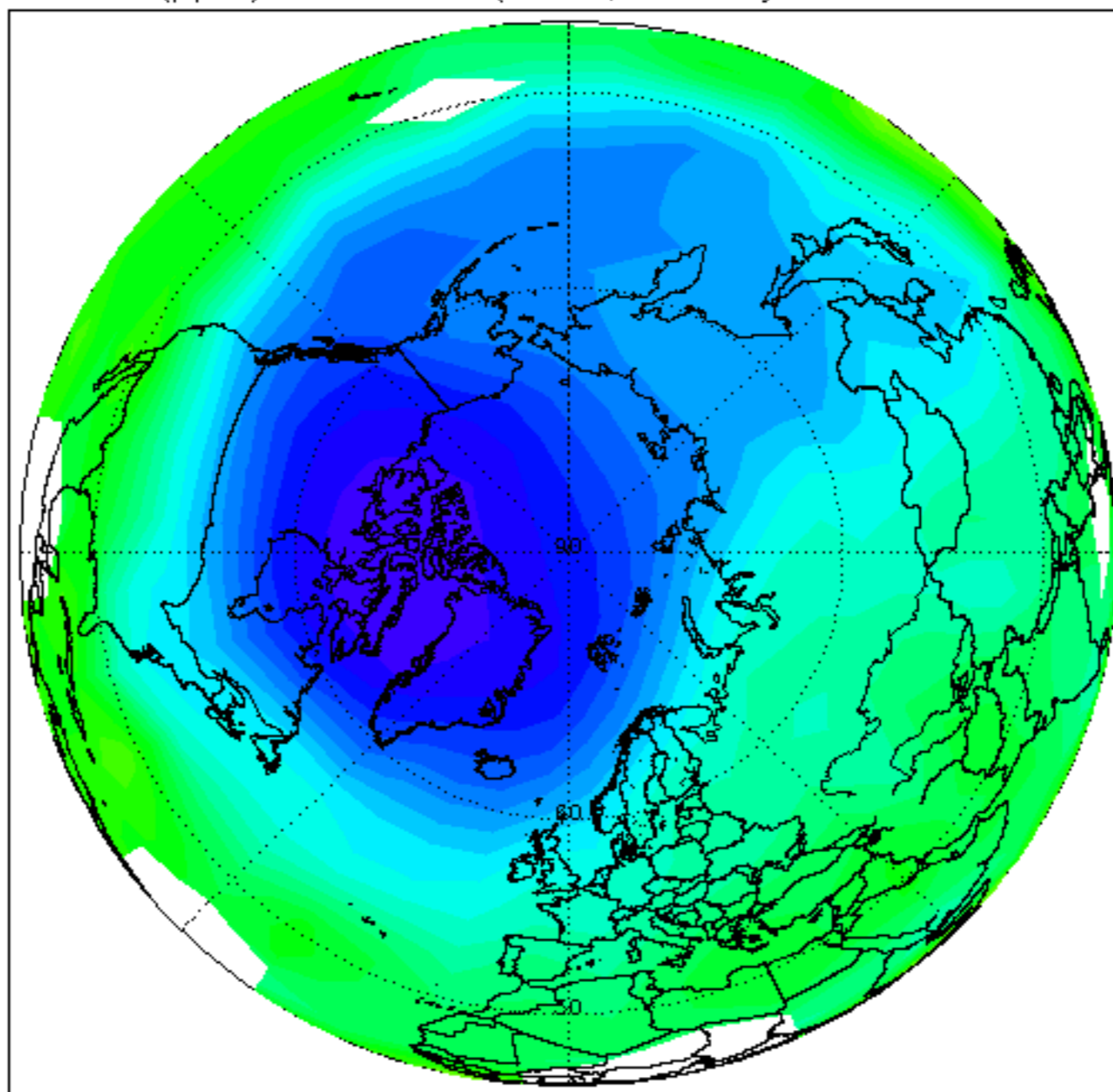
O<sub>3</sub> (ppm) at 2700 K (60km, 0.2hPa). 28-FEB-2012



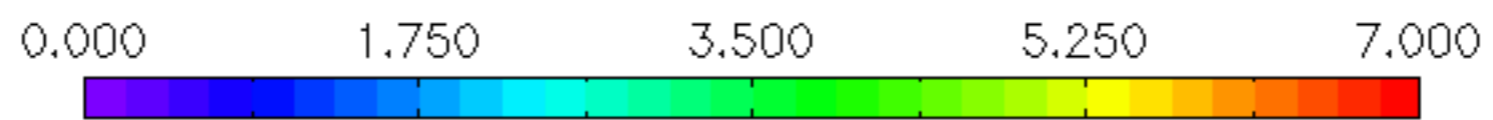
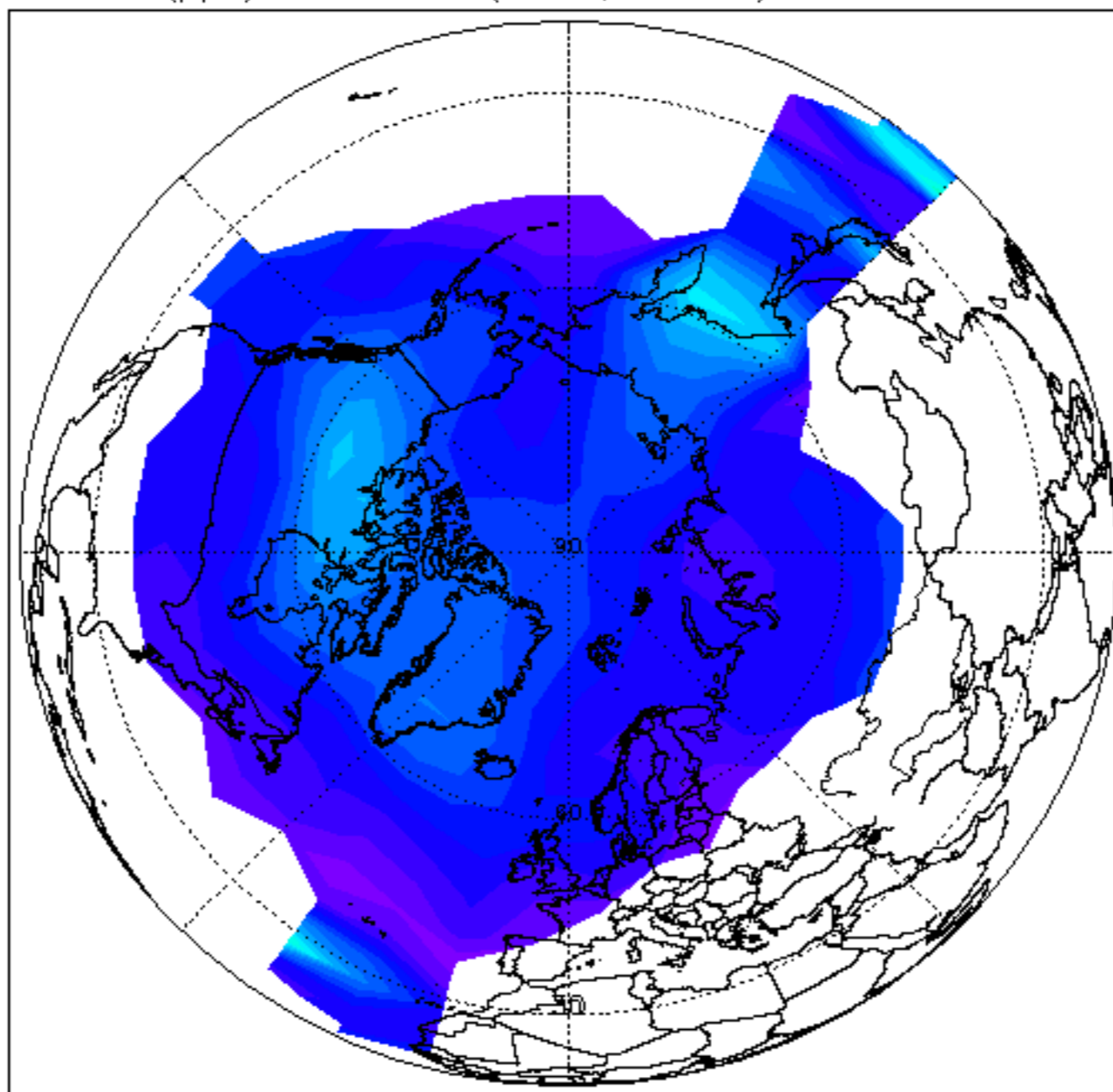
HNO<sub>3</sub> (ppb) at 2700 K (60km, 0.2hPa). 28-FEB-2012



CH<sub>4</sub> (ppm) at 2700 K (60km, 0.2hPa). 28-FEB-2012

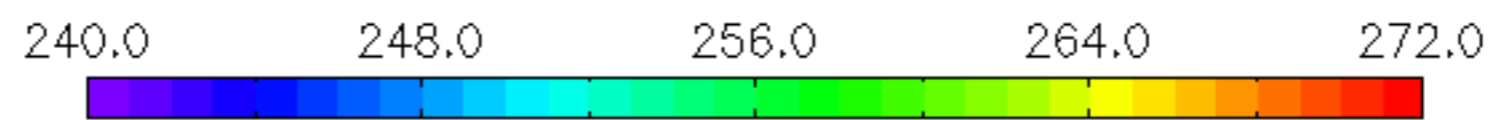
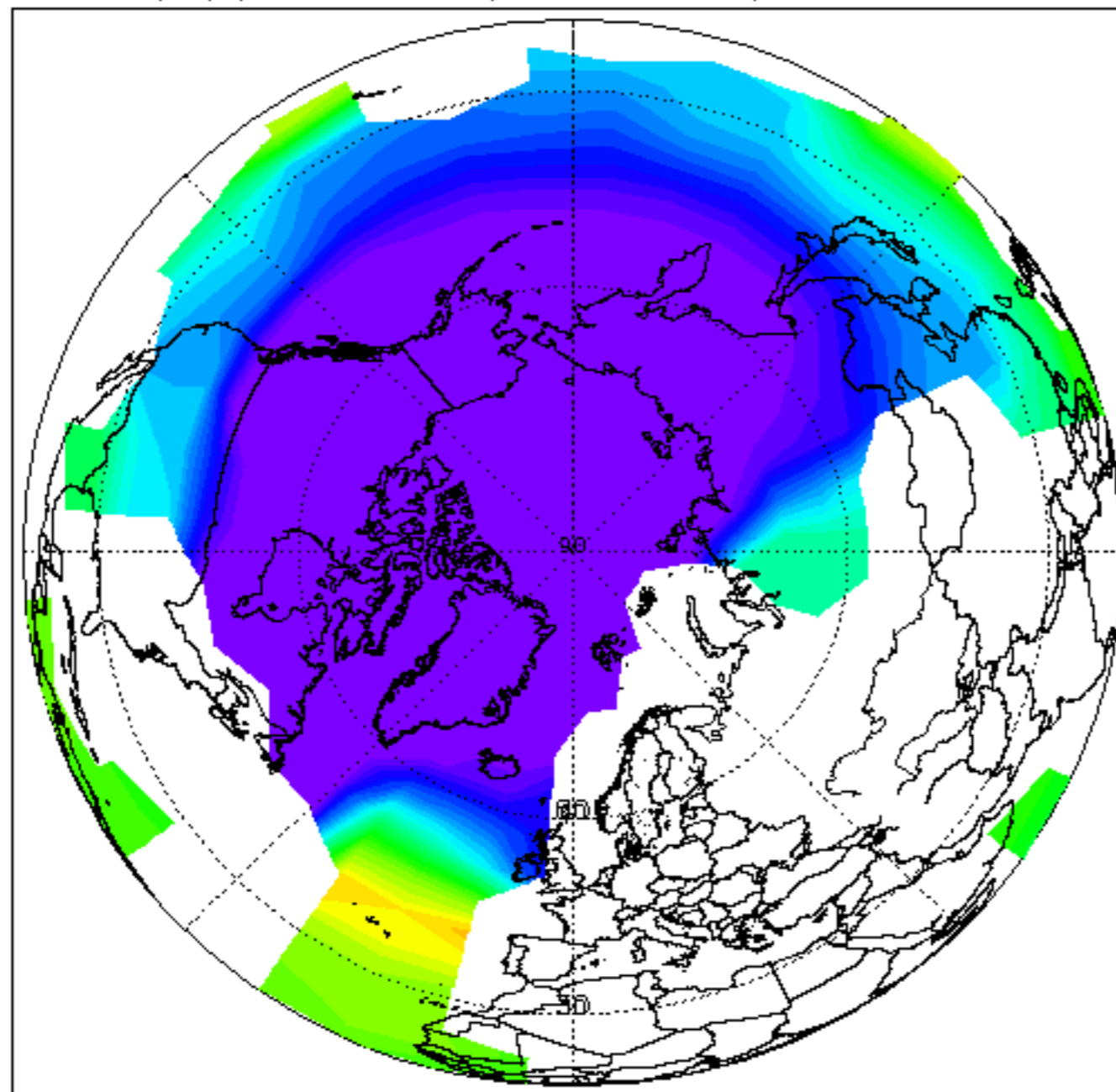


N<sub>2</sub>O (ppb) at 2700 K (60km, 0.2hPa). 28-FEB-2012

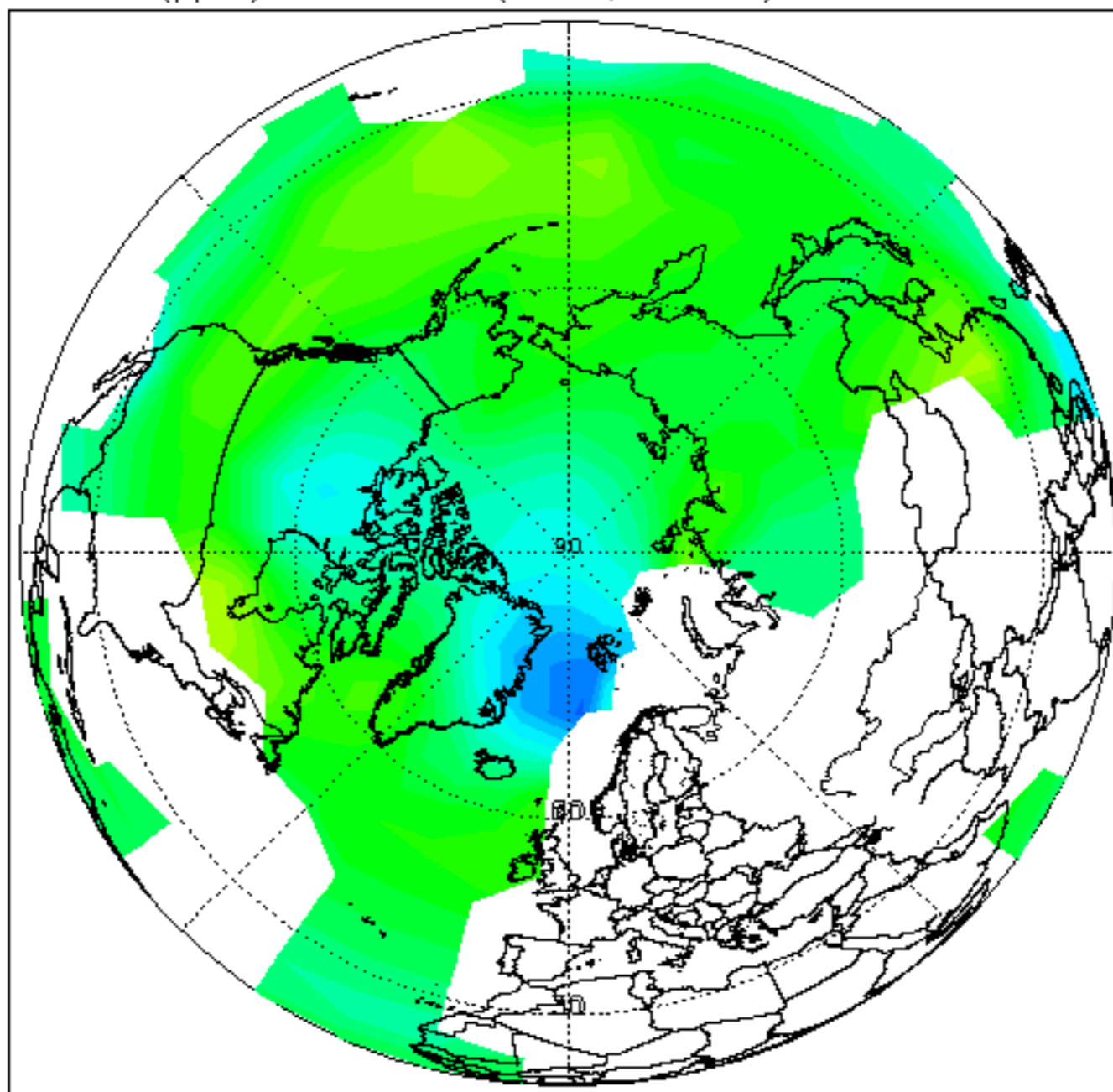




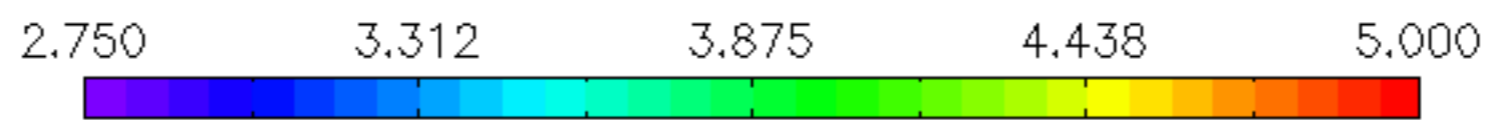
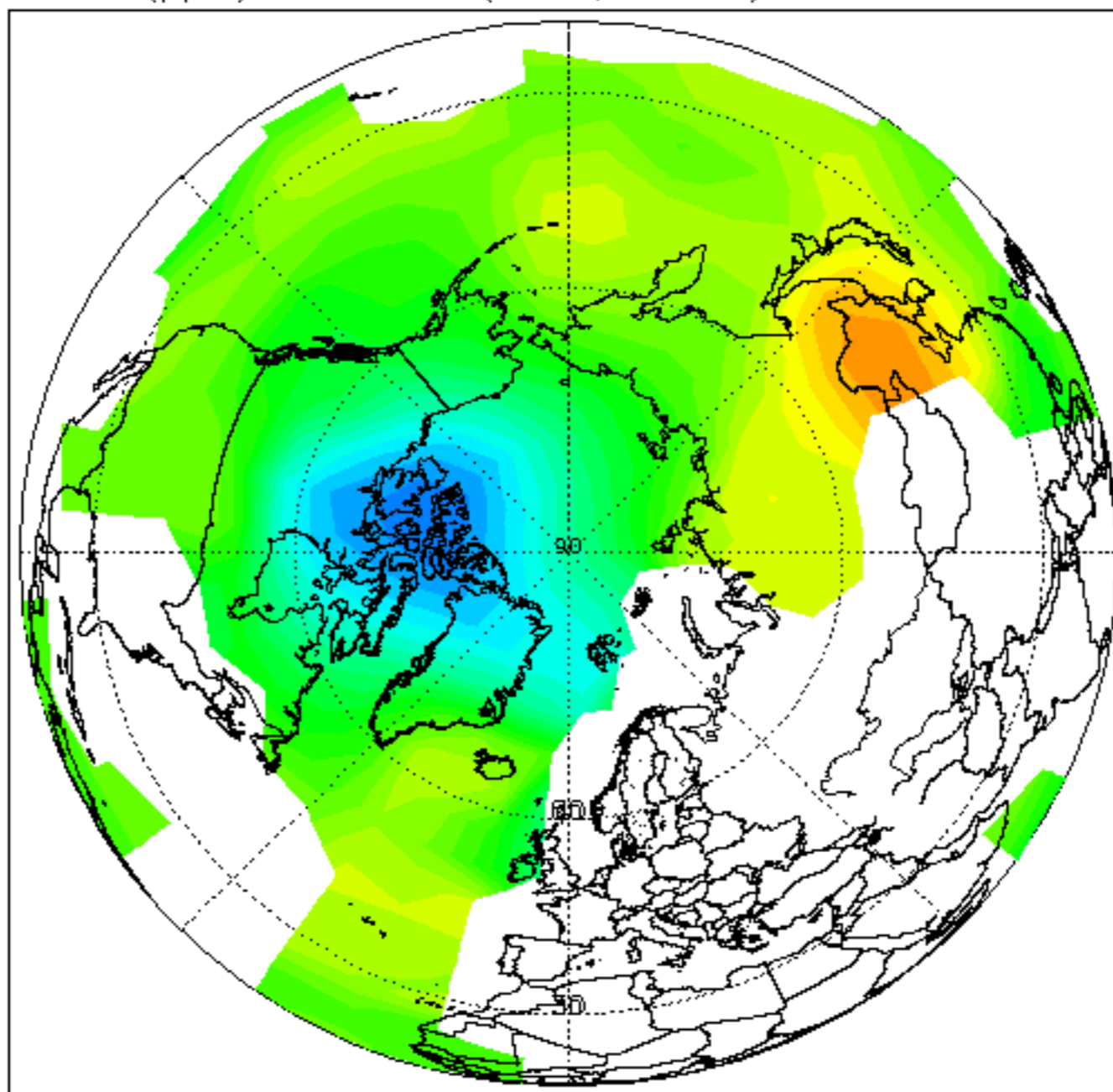
Temp (K) at 1700 K (45km, 1.5hPa). 28-FEB-2012



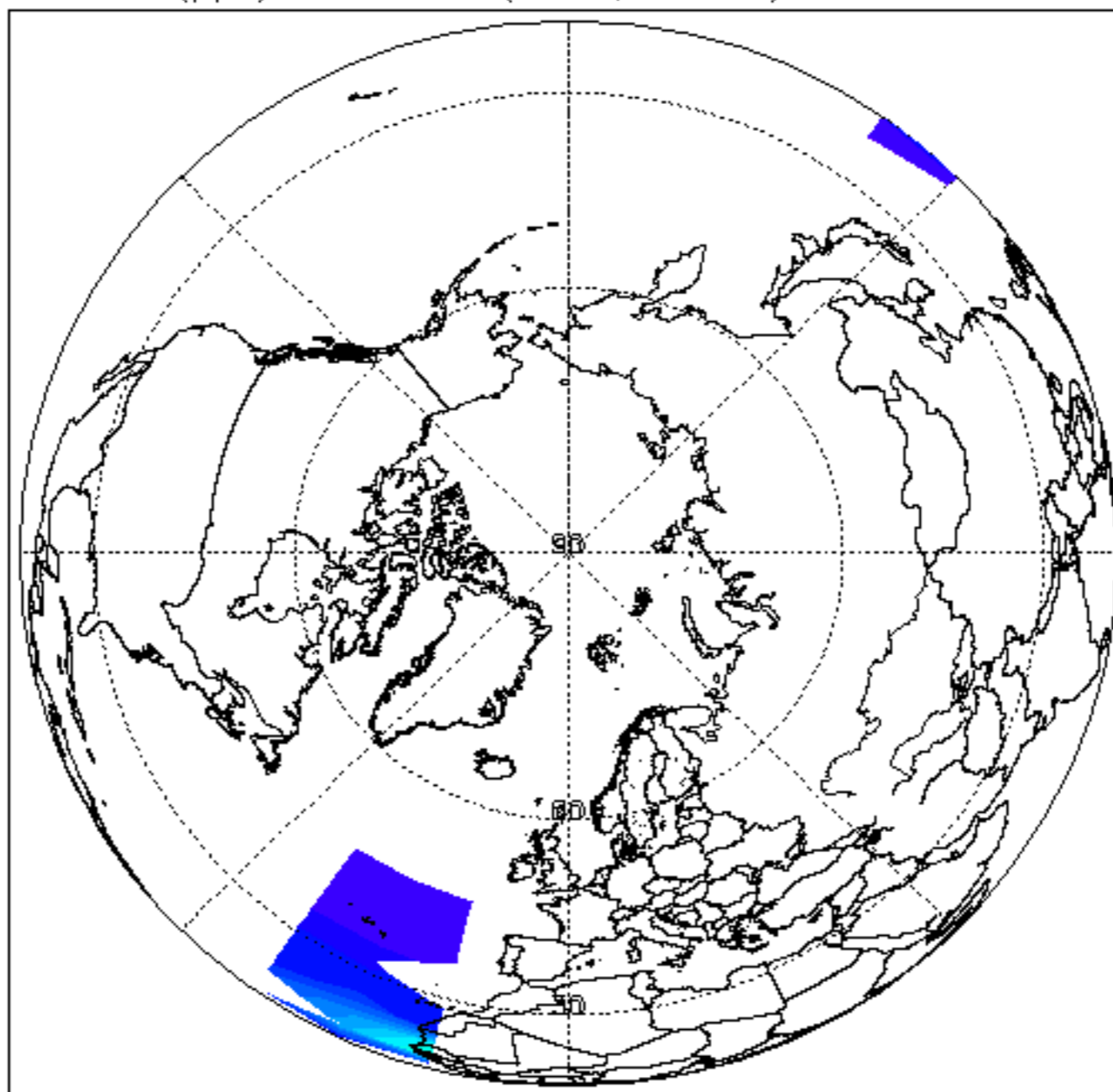
H<sub>2</sub>O (ppm) at 1700 K (45km, 1.5hPa). 28-FEB-2012



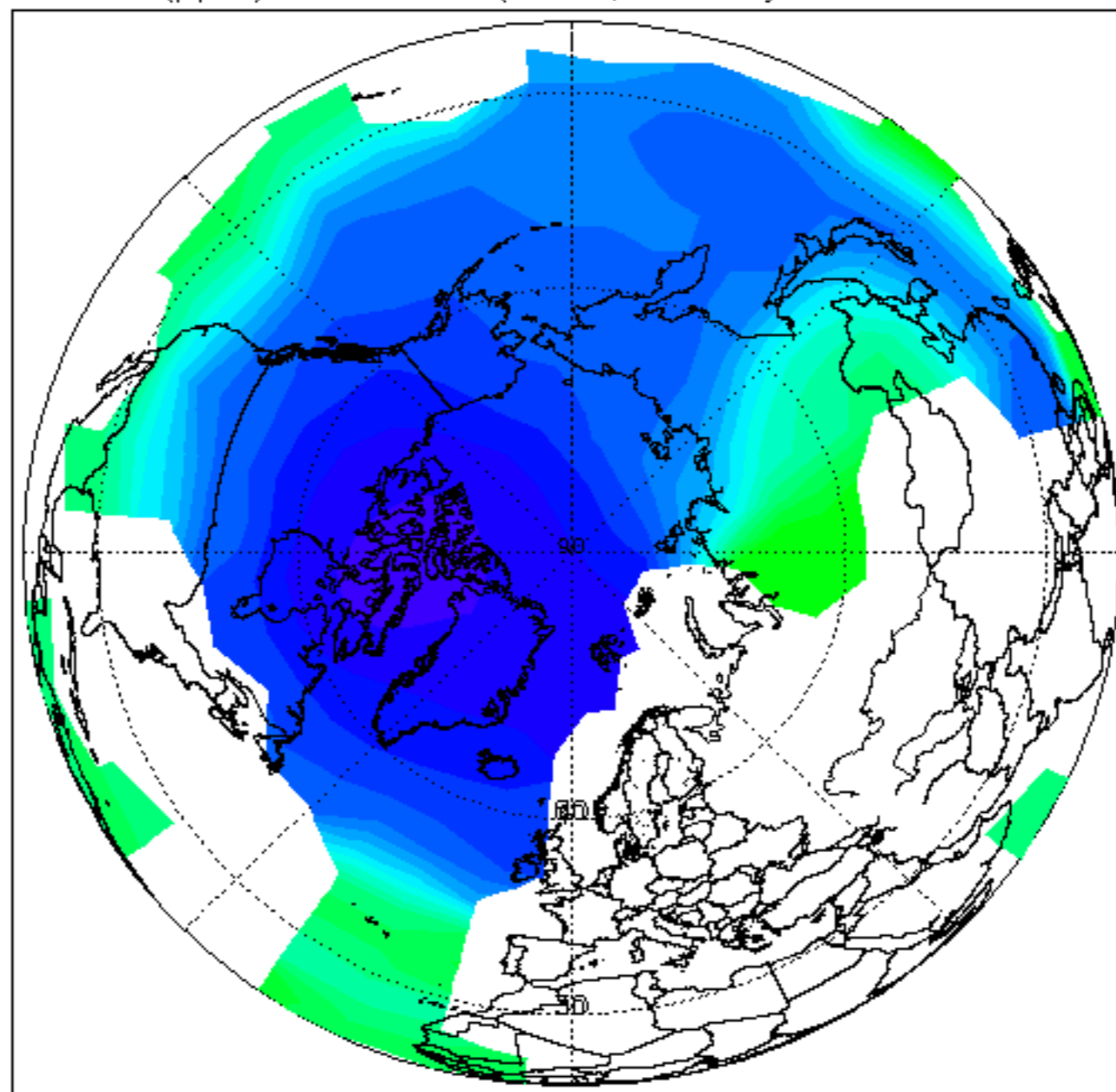
O3 (ppm) at 1700 K (45km, 1.5hPa). 28-FEB-2012



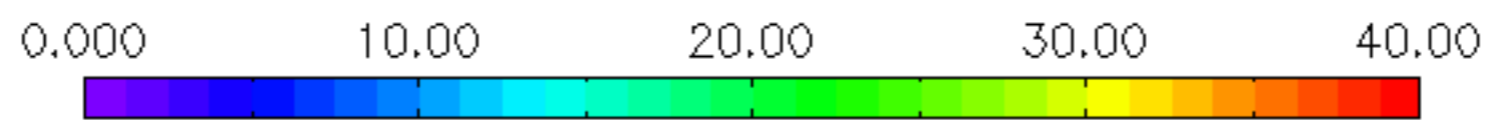
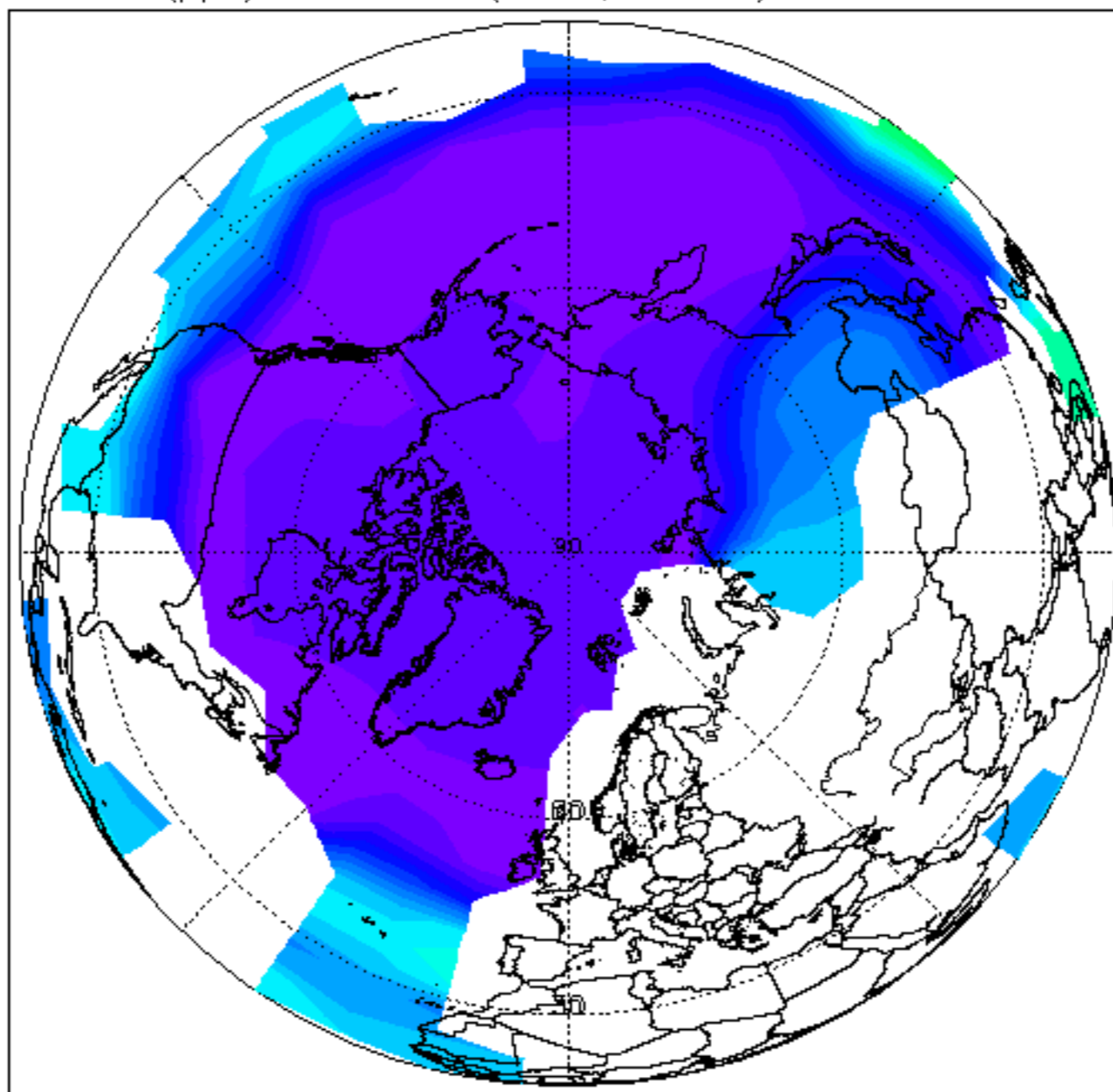
HN03 (ppb) at 1700 K (45km, 1.5hPa). 28-FEB-2012



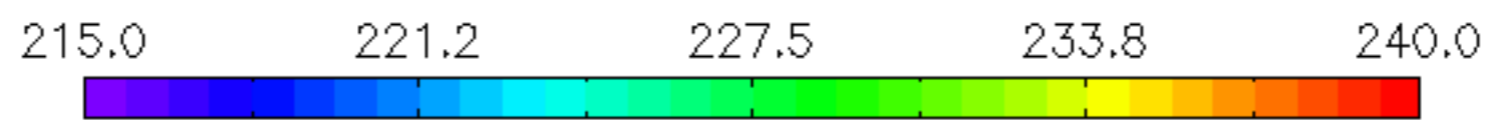
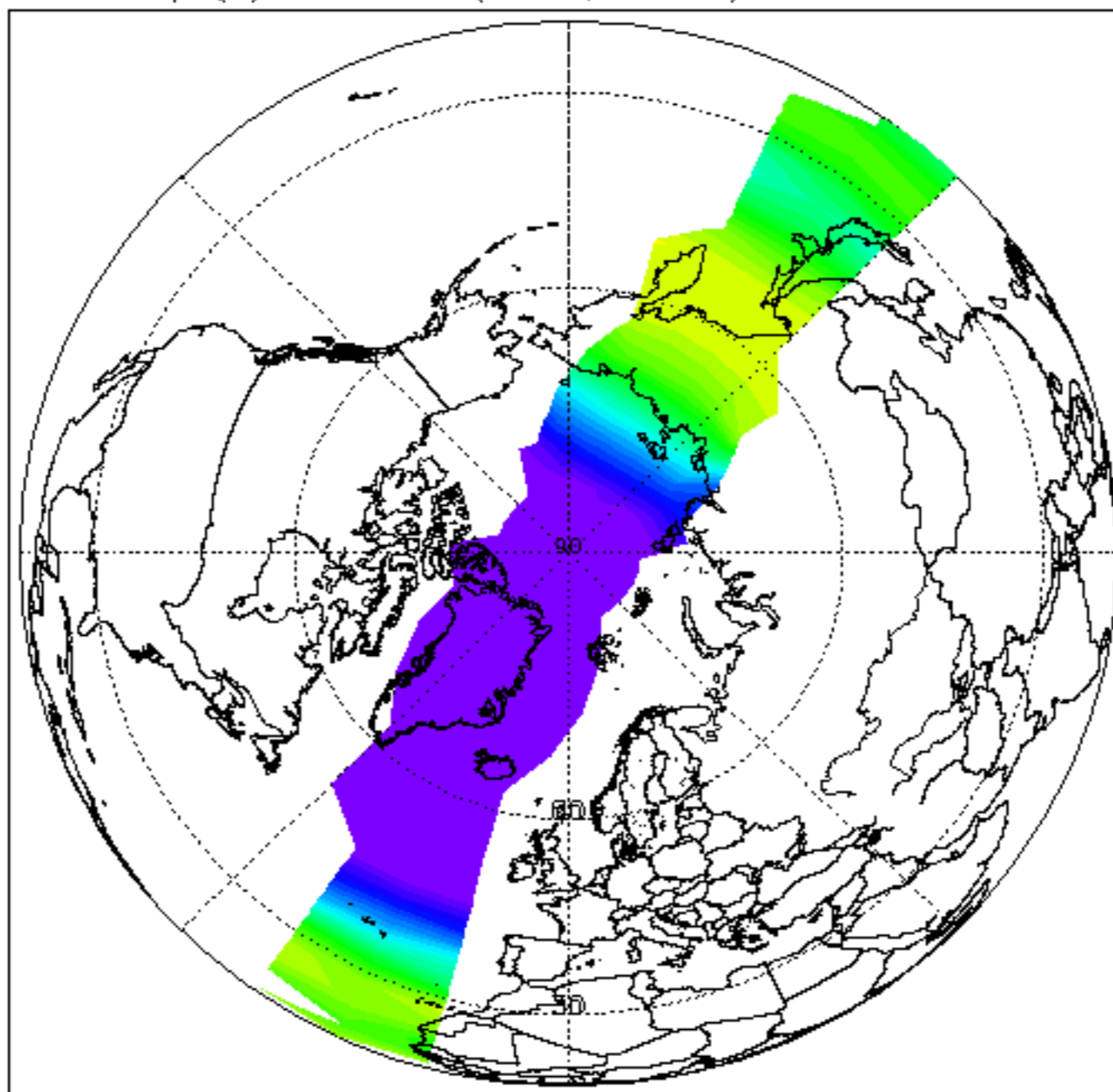
CH<sub>4</sub> (ppm) at 1700 K (45km, 1.5hPa). 28-FEB-2012



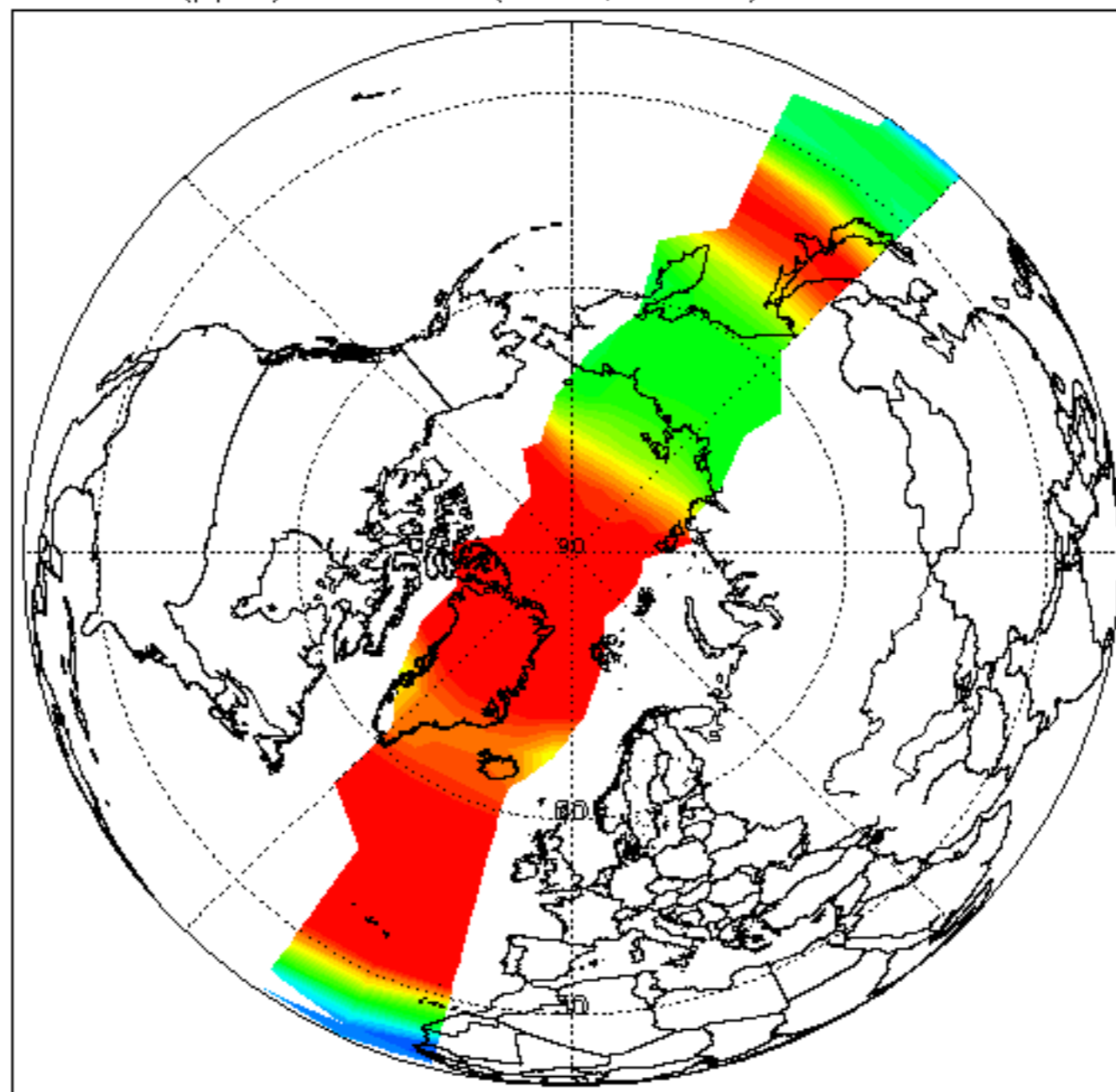
N<sub>2</sub>O (ppb) at 1700 K (45km, 1.5hPa). 28-FEB-2012



Temp (K) at 850 K (32km, 10hPa). 28-FEB-2012

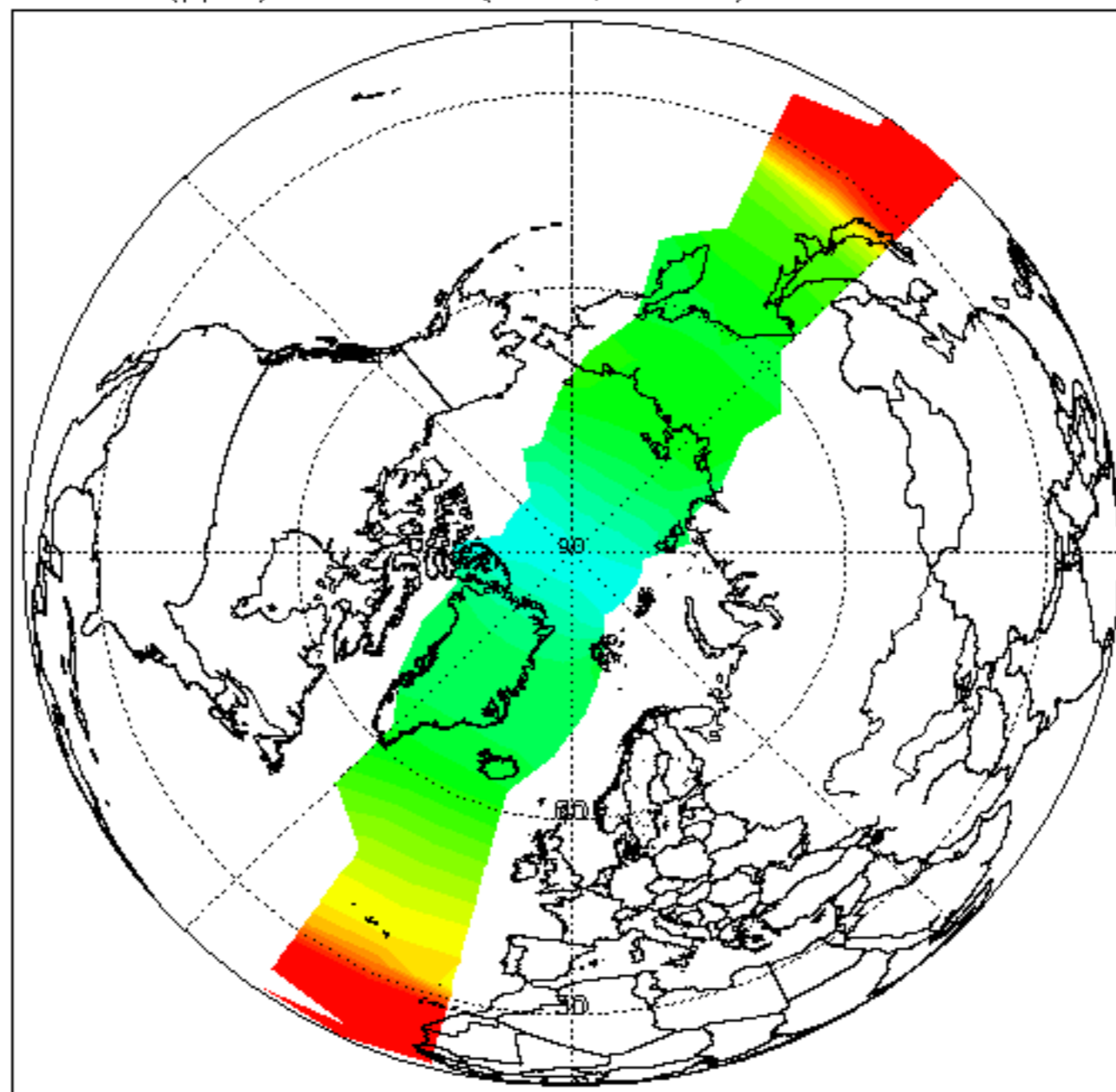


H<sub>2</sub>O (ppm) at 850 K (32km, 10hPa). 28-FEB-2012

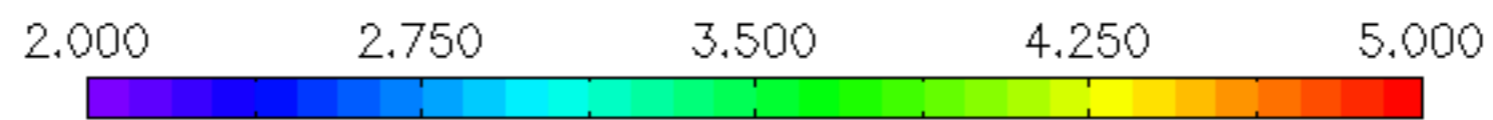
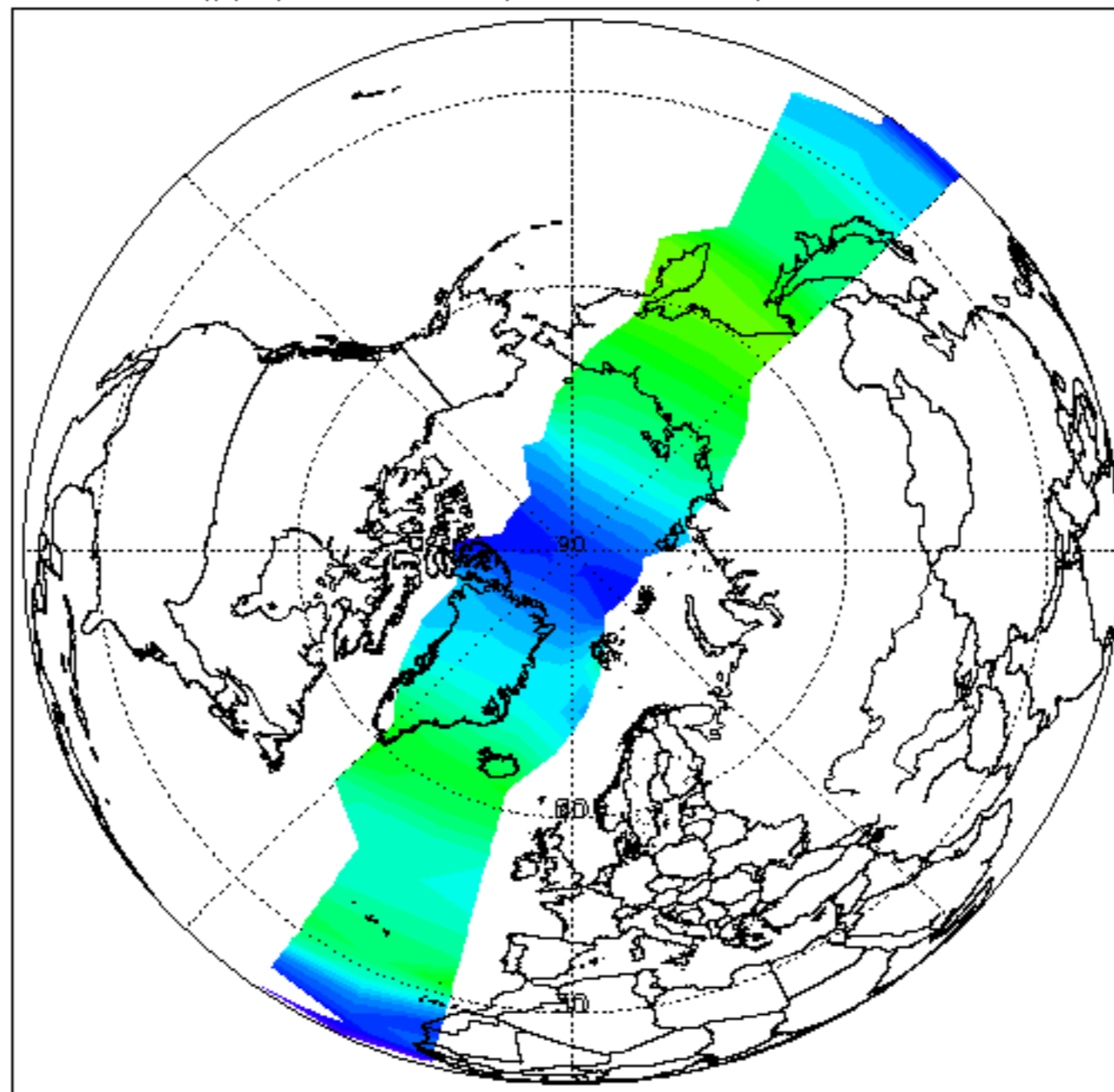




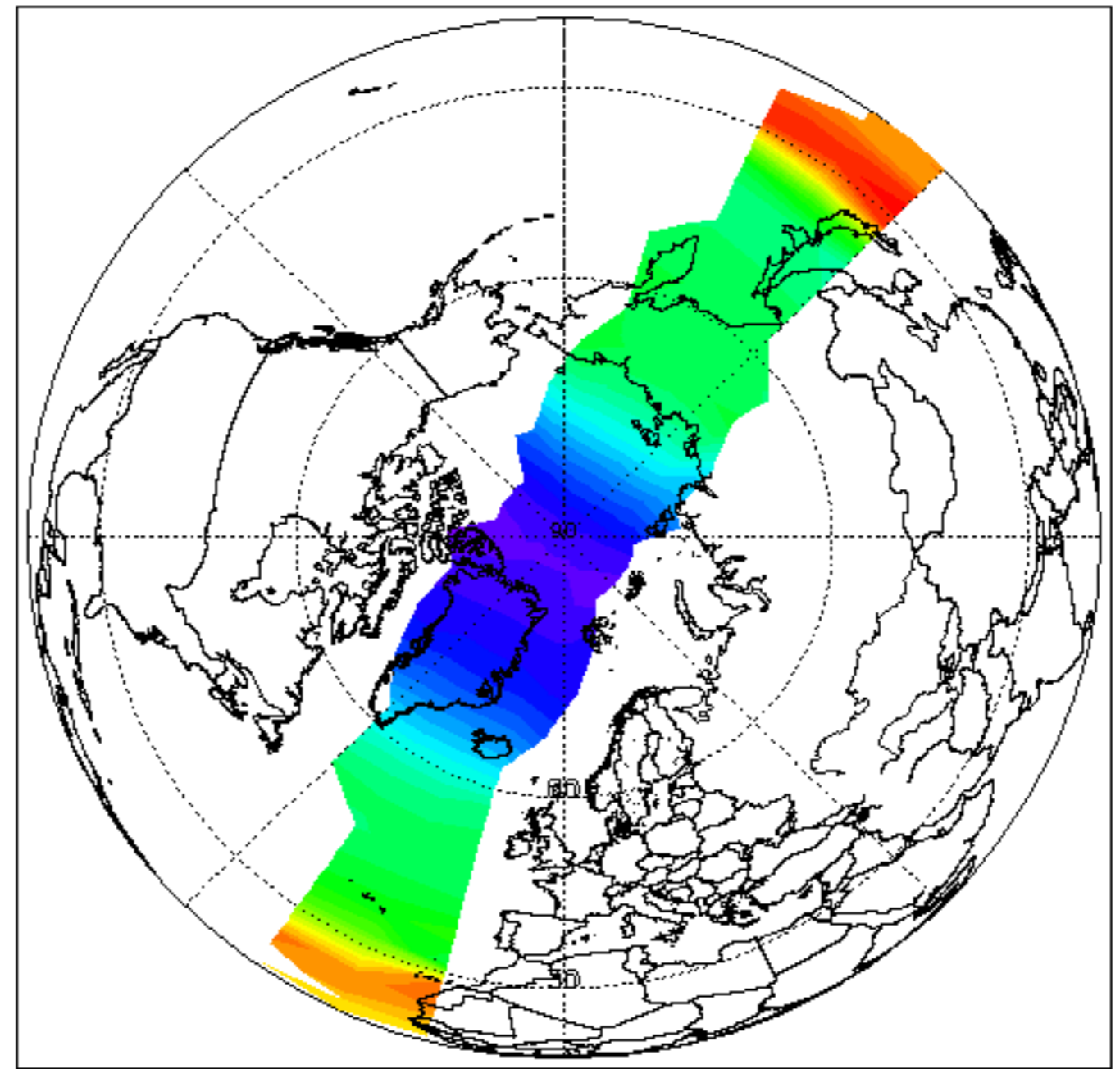
O<sub>3</sub> (ppm) at 850 K (32km, 10hPa). 28-FEB-2012



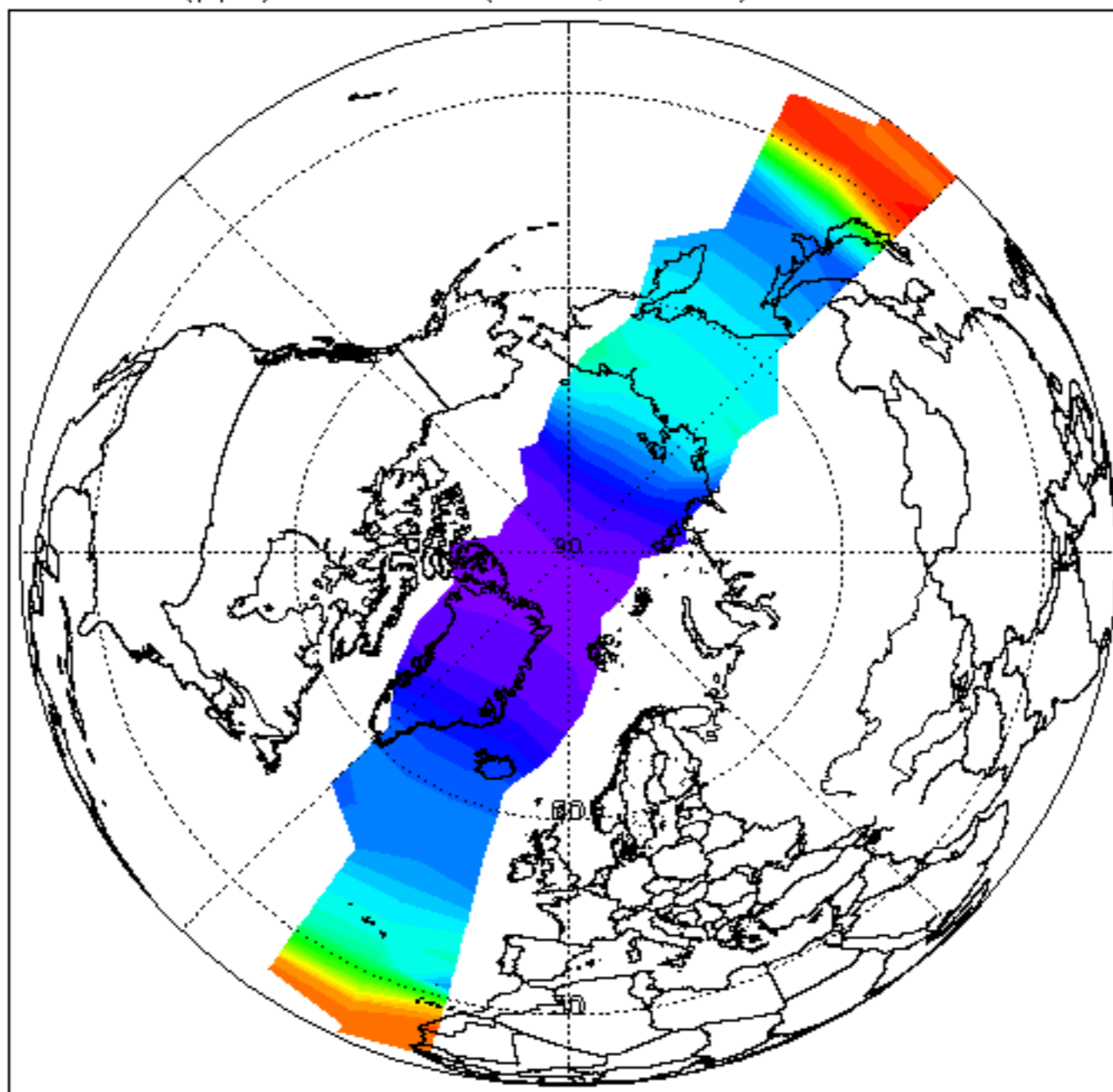
HN03 (ppb) at 850 K (32km, 10hPa). 28-FEB-2012



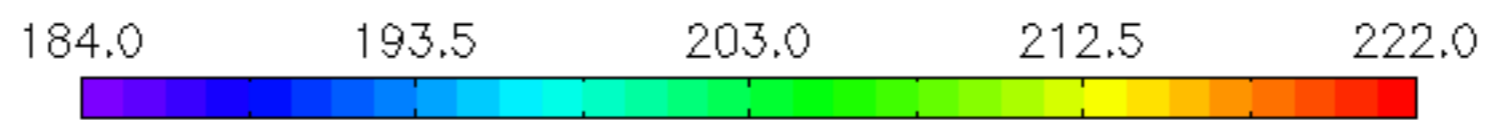
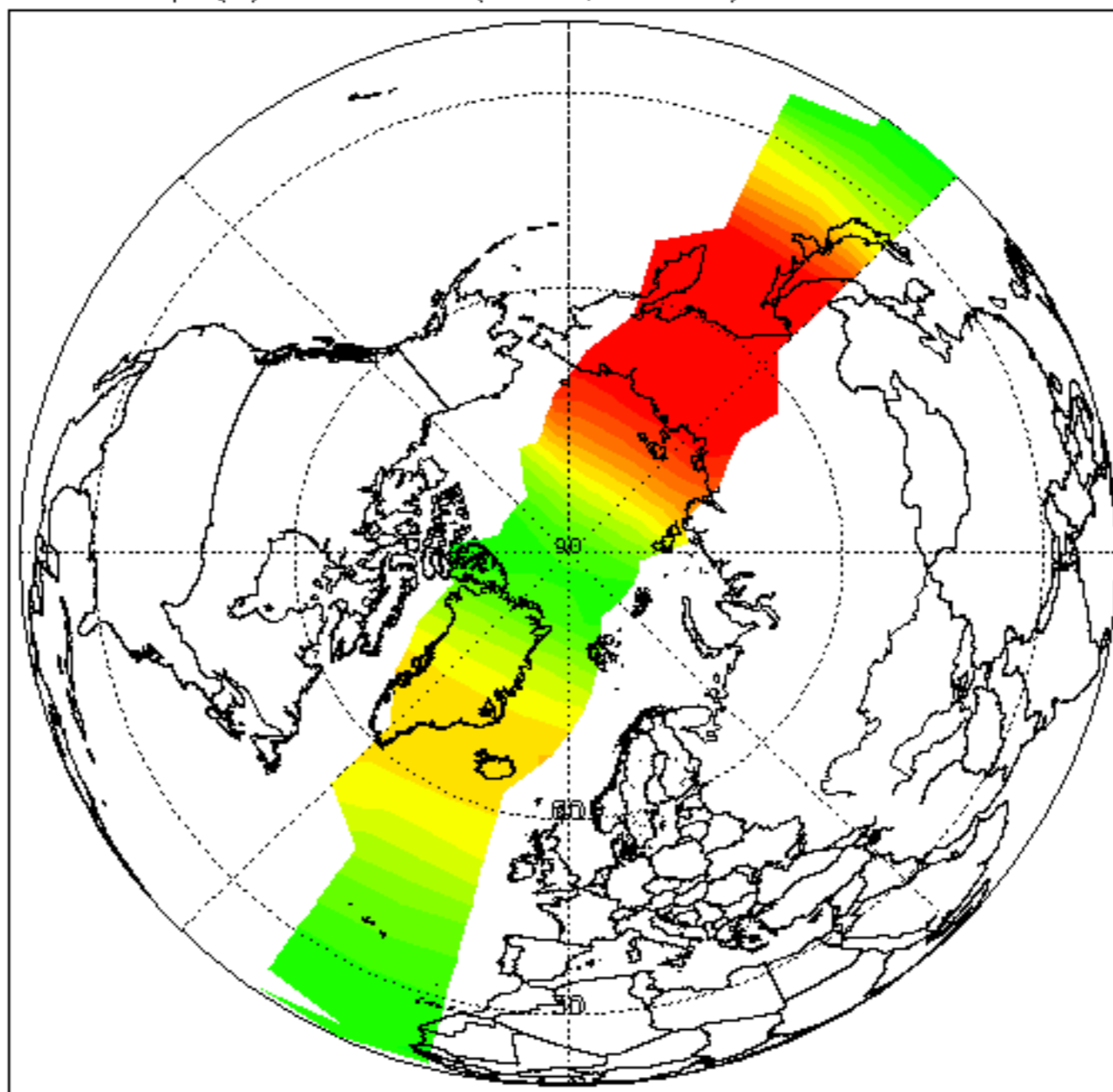
CH<sub>4</sub> (ppm) at 850 K (32km, 10hPa). 28-FEB-2012



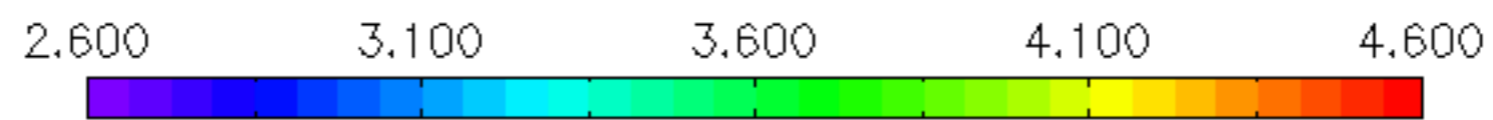
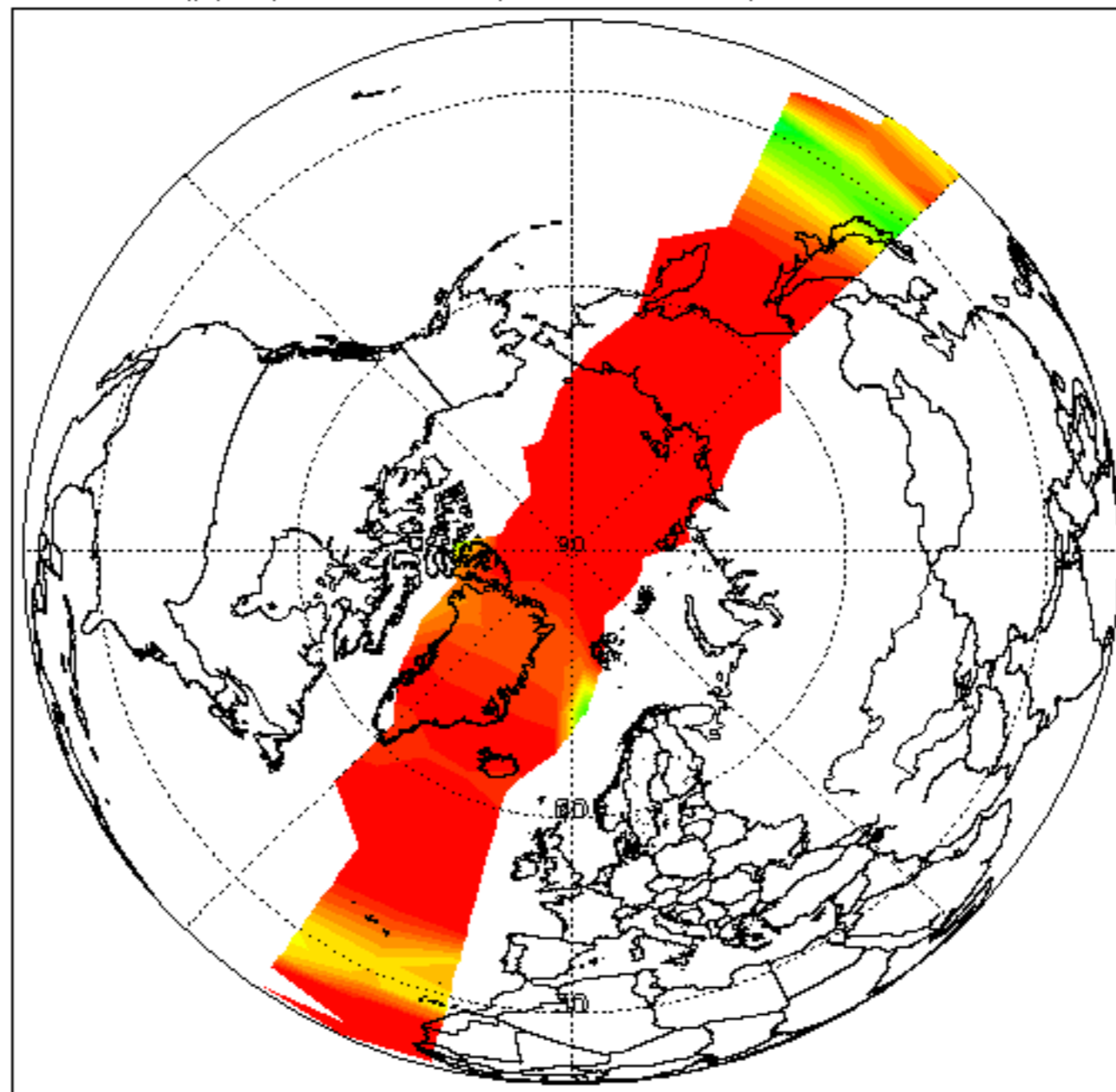
N<sub>2</sub>O (ppb) at 850 K (32km, 10hPa). 28-FEB-2012



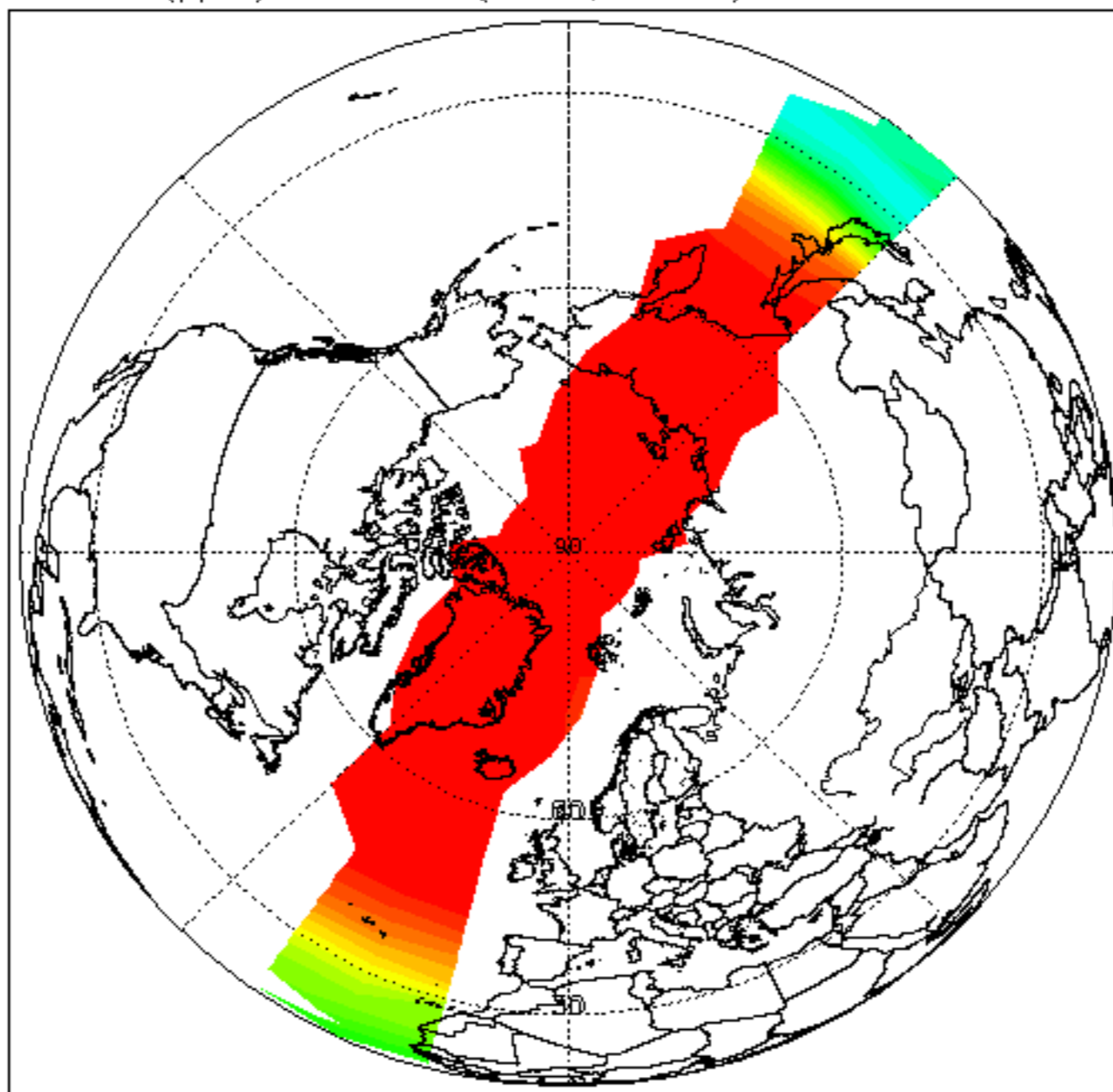
Temp (K) at 490 K (19km, 55hPa). 28-FEB-2012



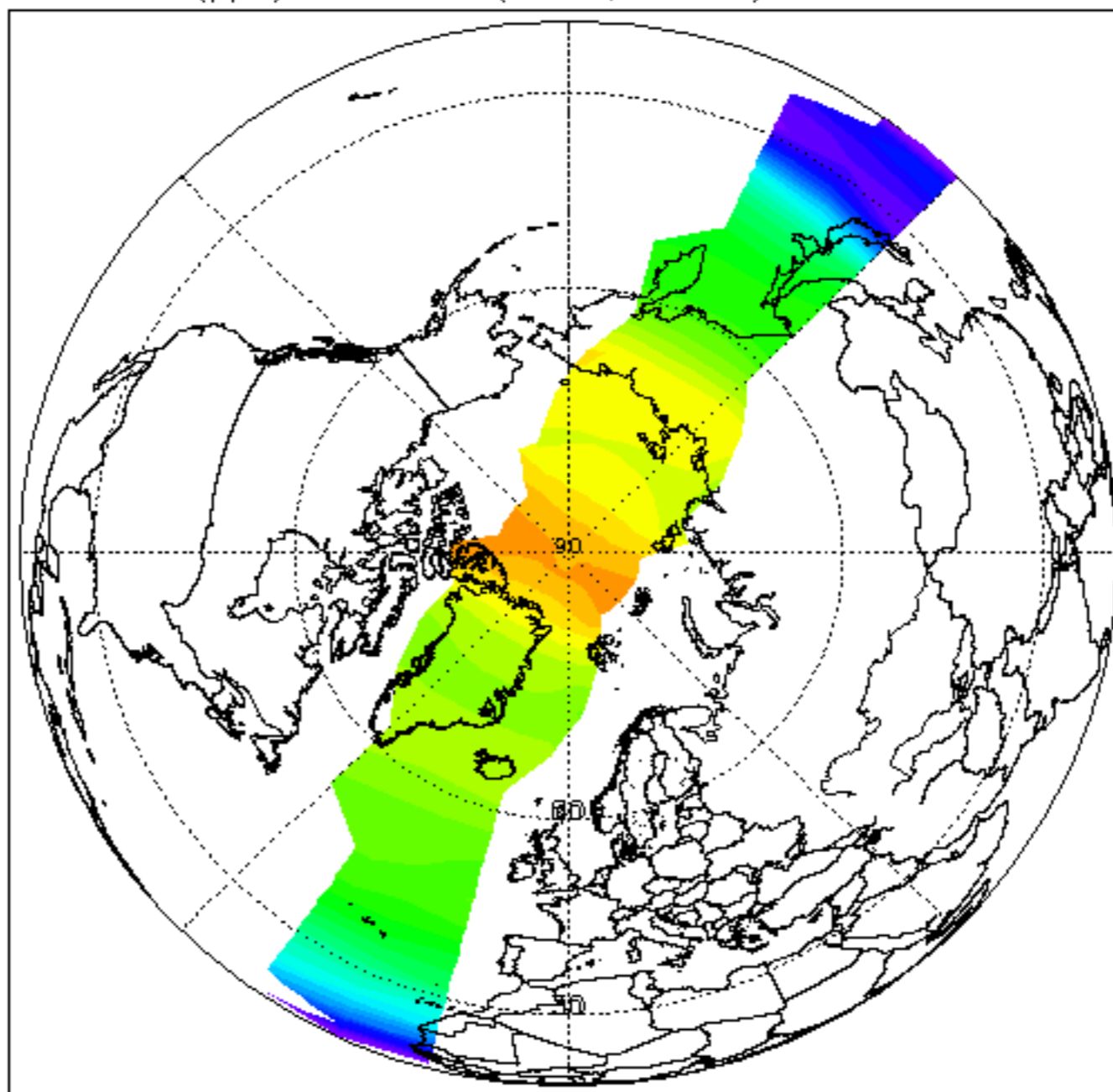
H<sub>2</sub>O (ppm) at 490 K (19km, 55hPa). 28-FEB-2012



O<sub>3</sub> (ppm) at 490 K (19km, 55hPa). 28-FEB-2012

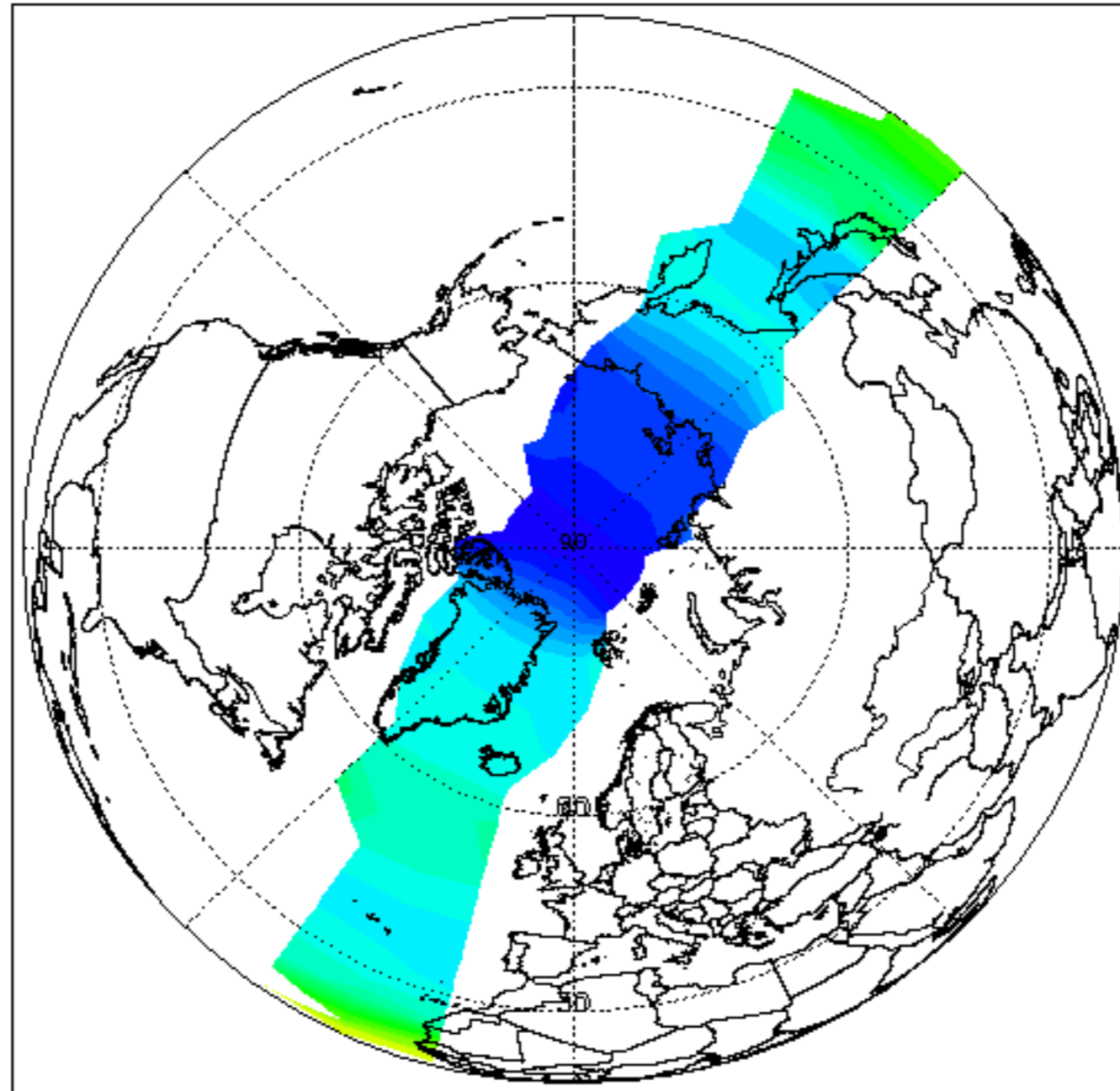


HN03 (ppb) at 490 K (19km, 55hPa). 28-FEB-2012

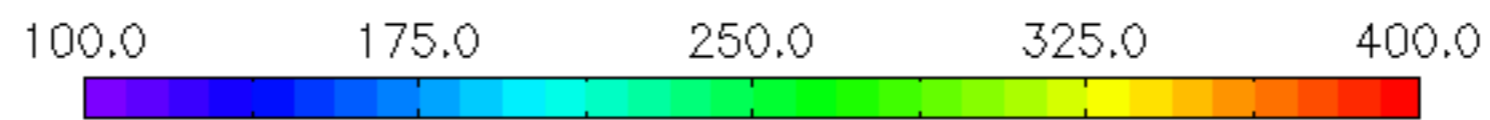
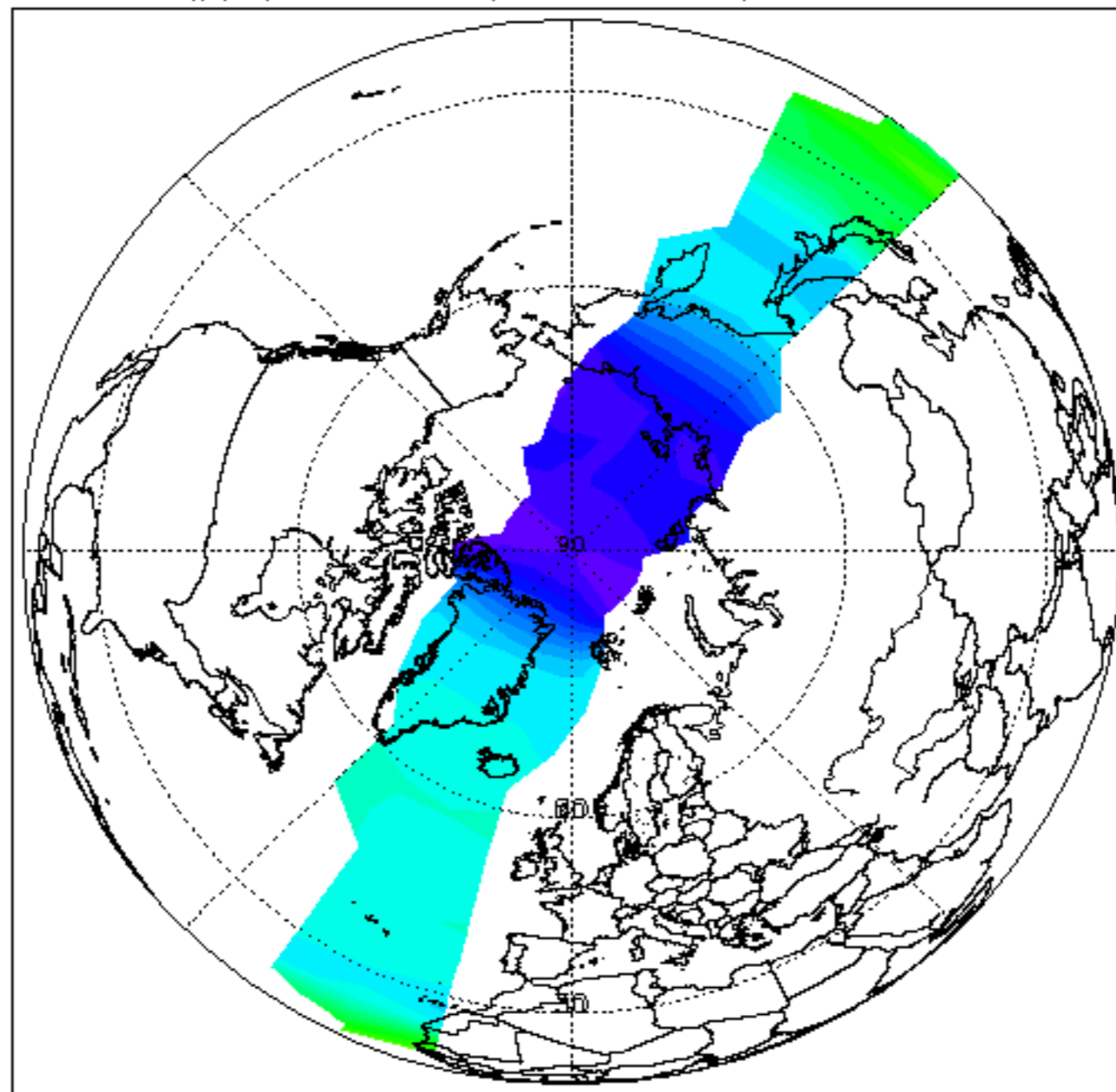




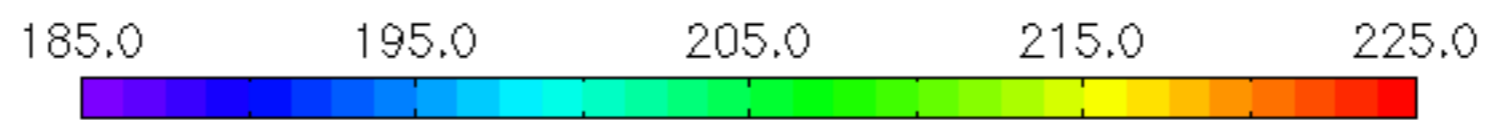
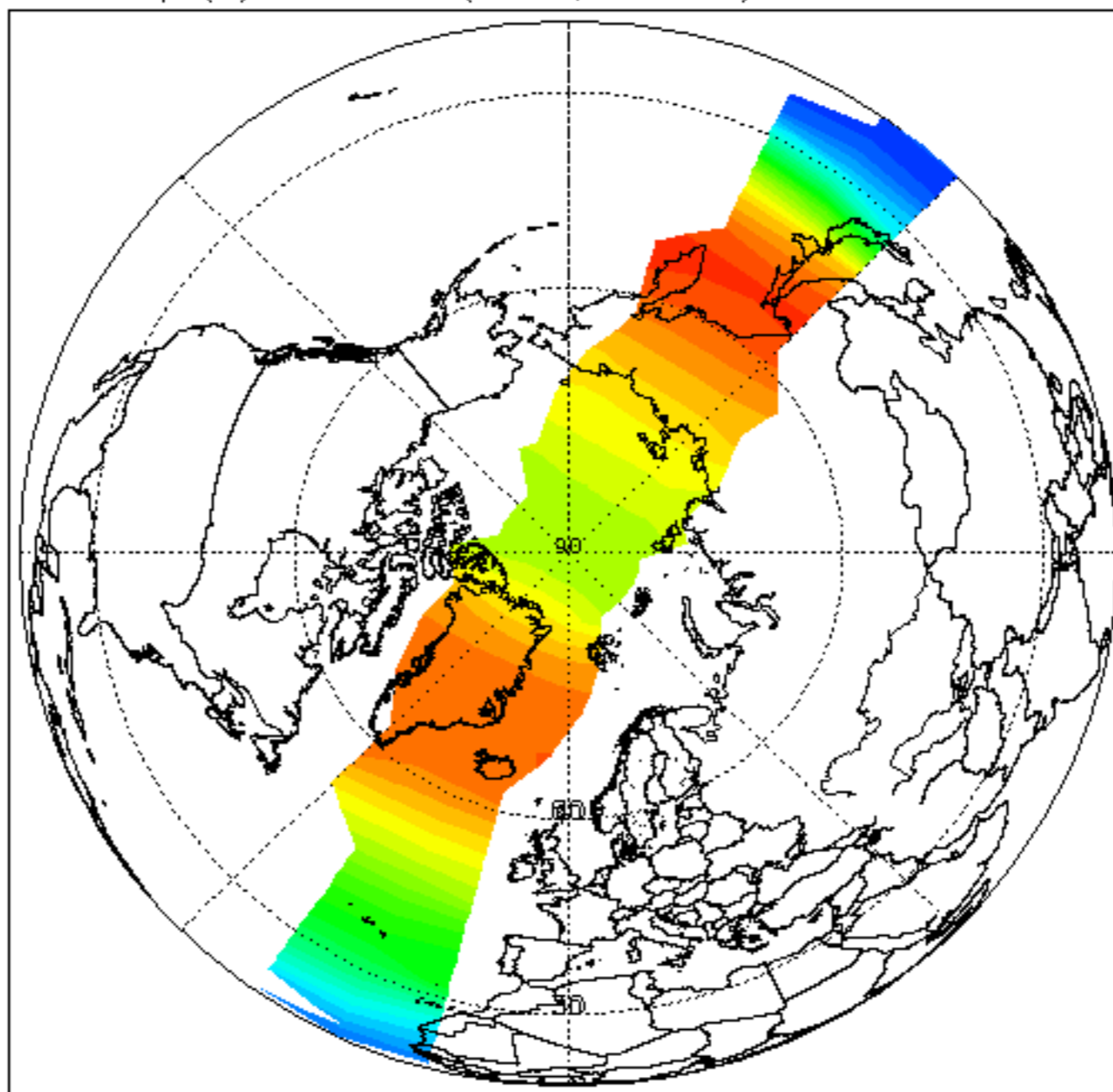
CH<sub>4</sub> (ppm) at 490 K (19km, 55hPa). 28-FEB-2012



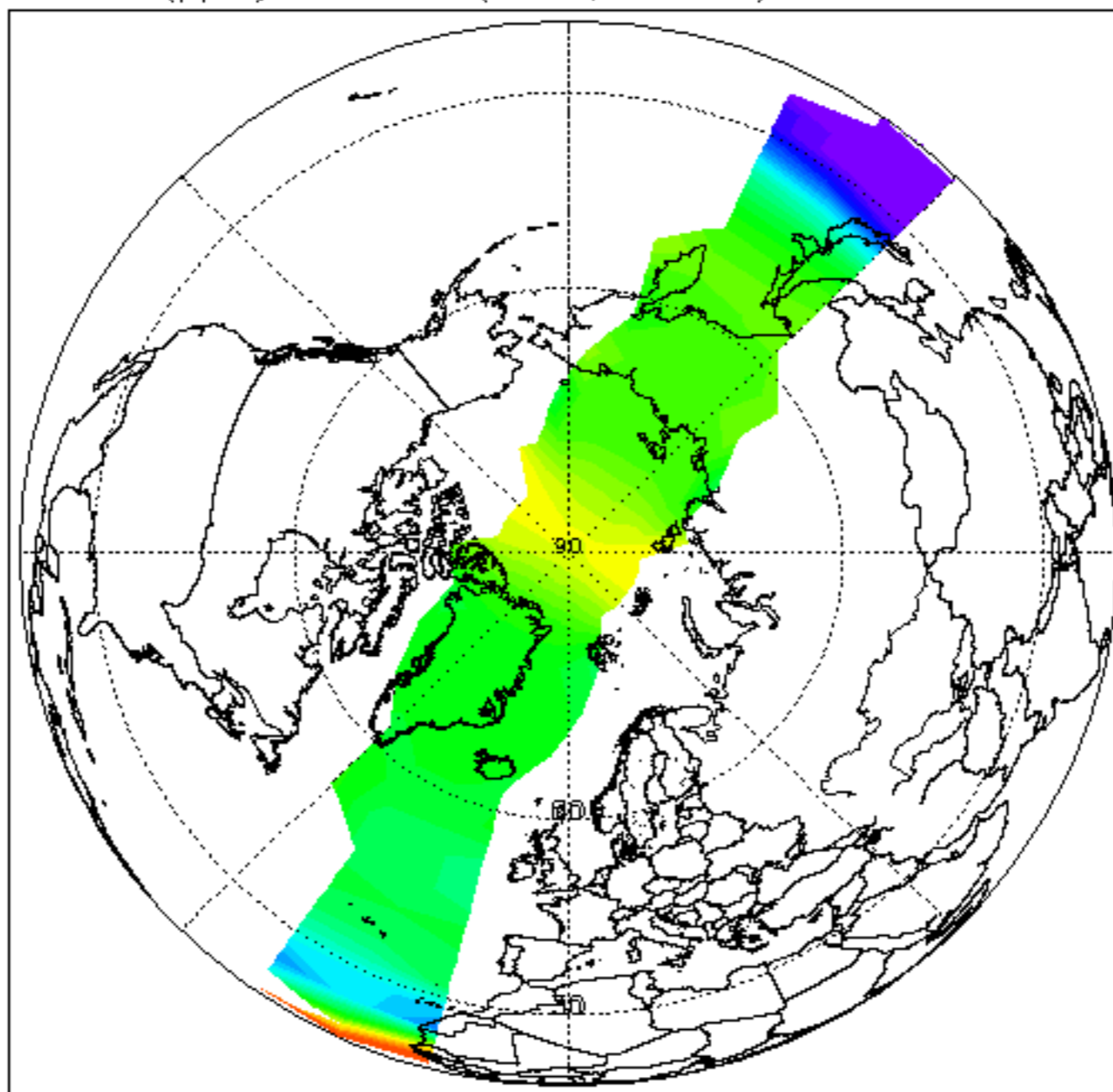
N<sub>2</sub>O (ppb) at 490 K (19km, 55hPa). 28-FEB-2012



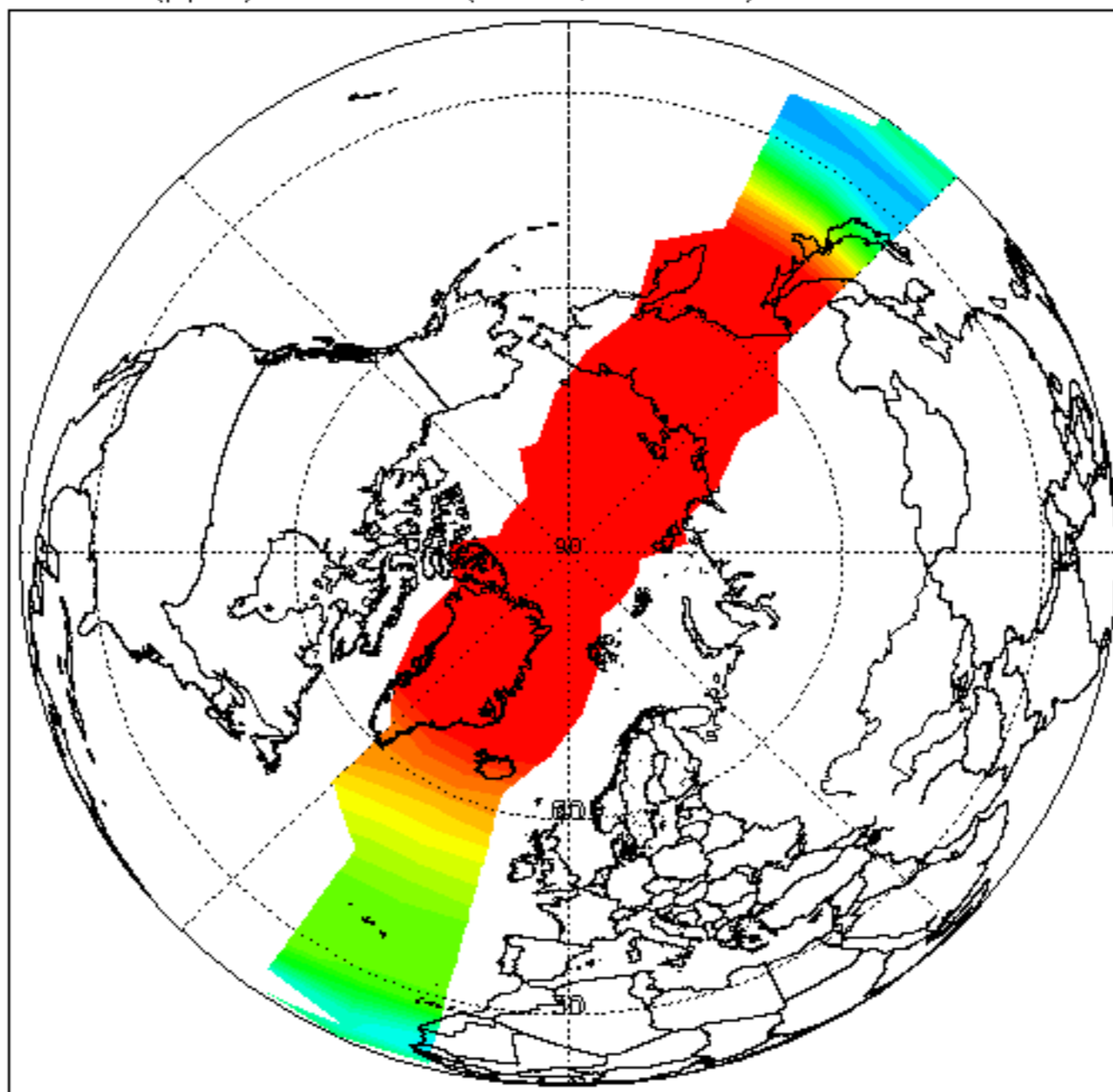
Temp (K) at 410 K (16km, 100hPa). 28-FEB-2012



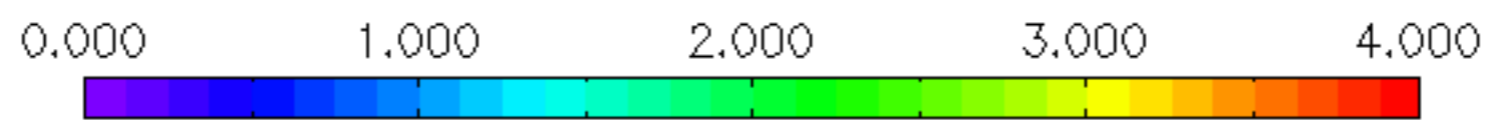
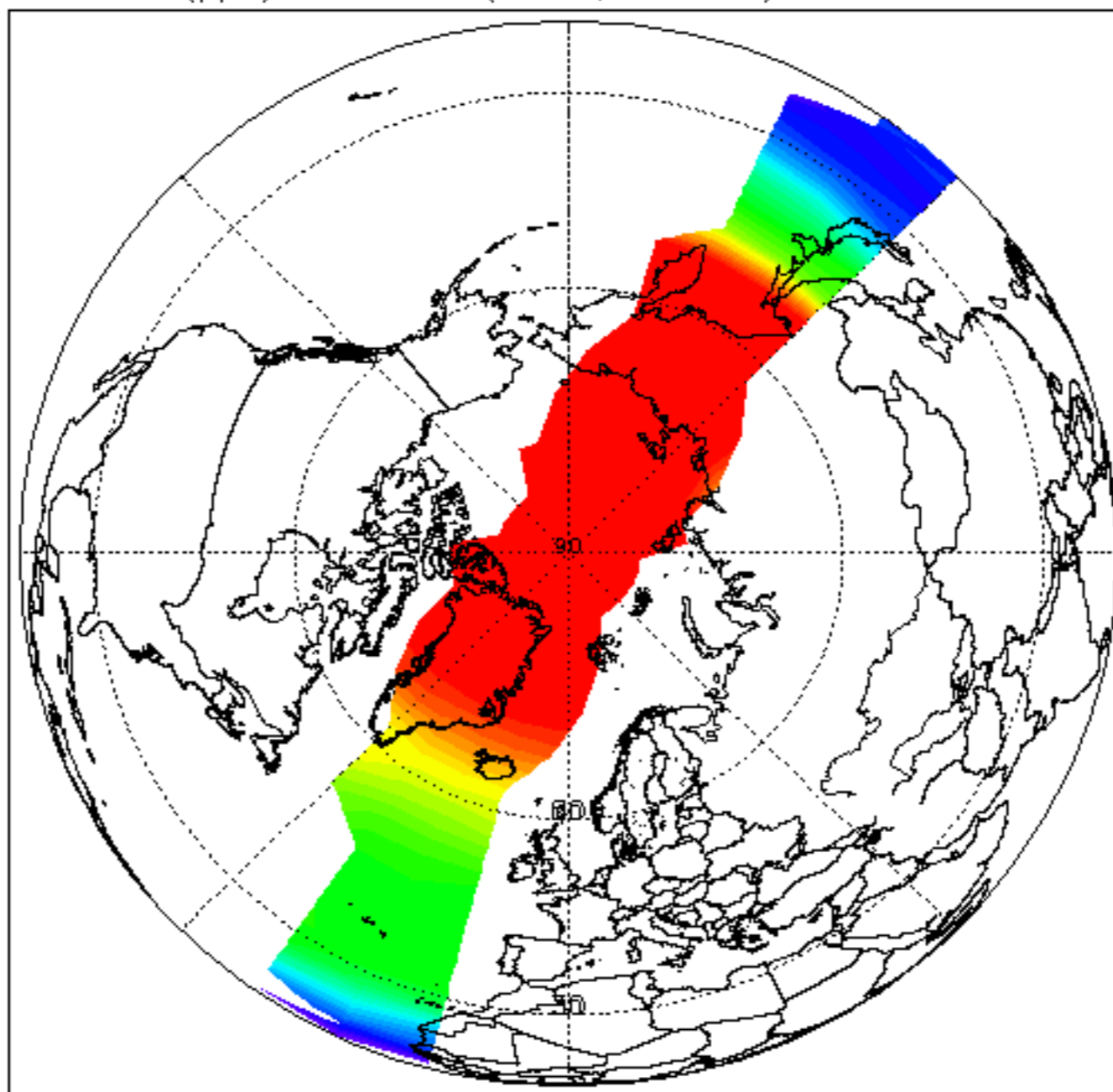
H<sub>2</sub>O (ppm) at 410 K (16km, 100hPa). 28-FEB-2012



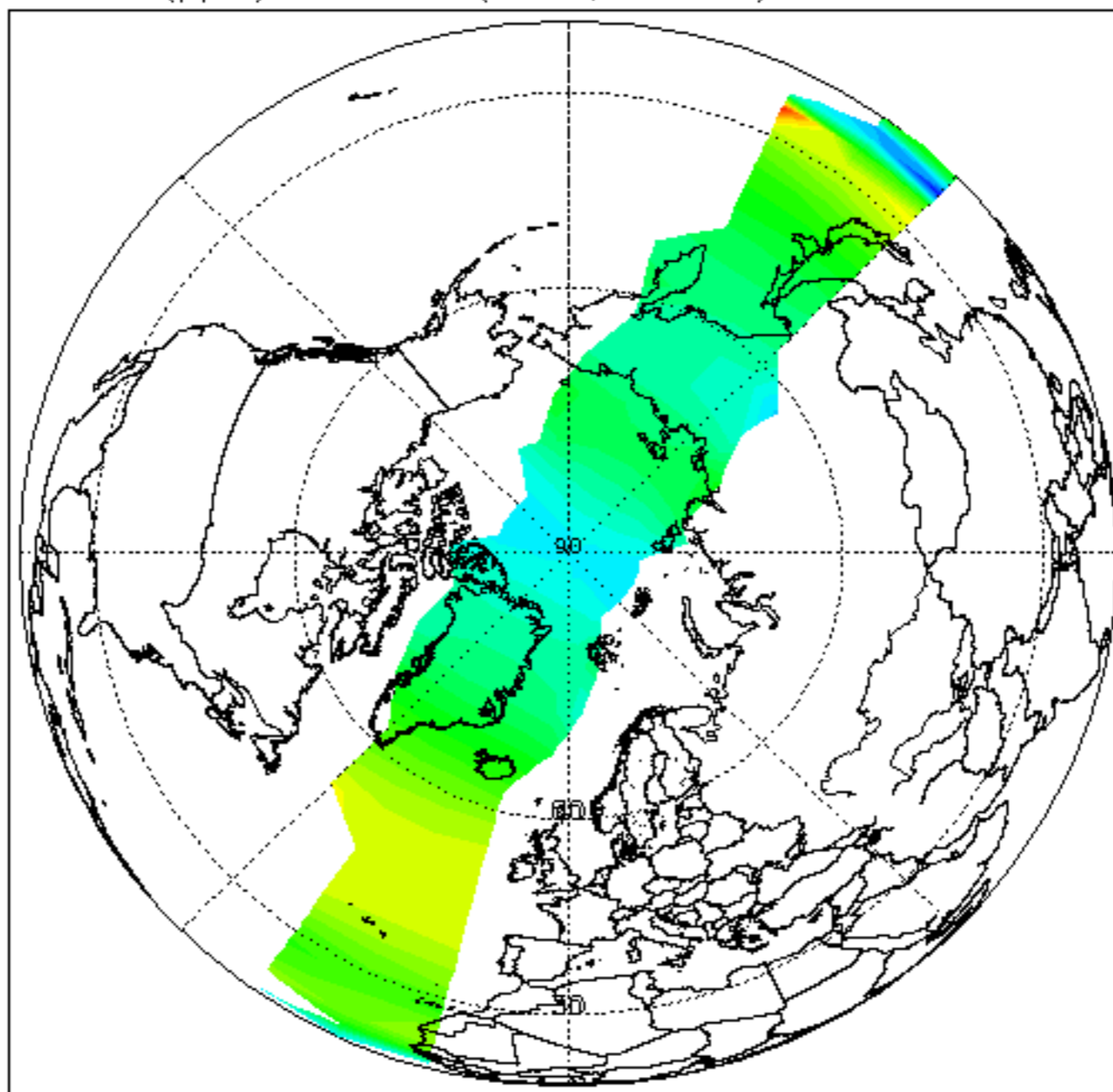
O<sub>3</sub> (ppm) at 410 K (16km, 100hPa). 28-FEB-2012



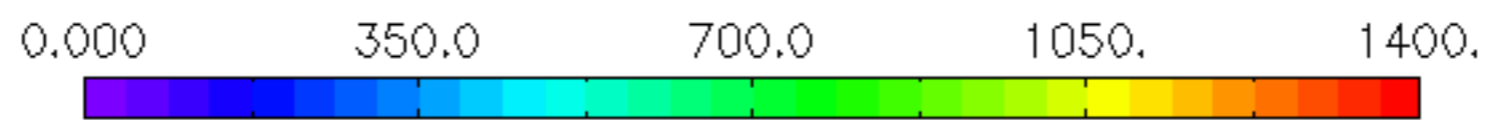
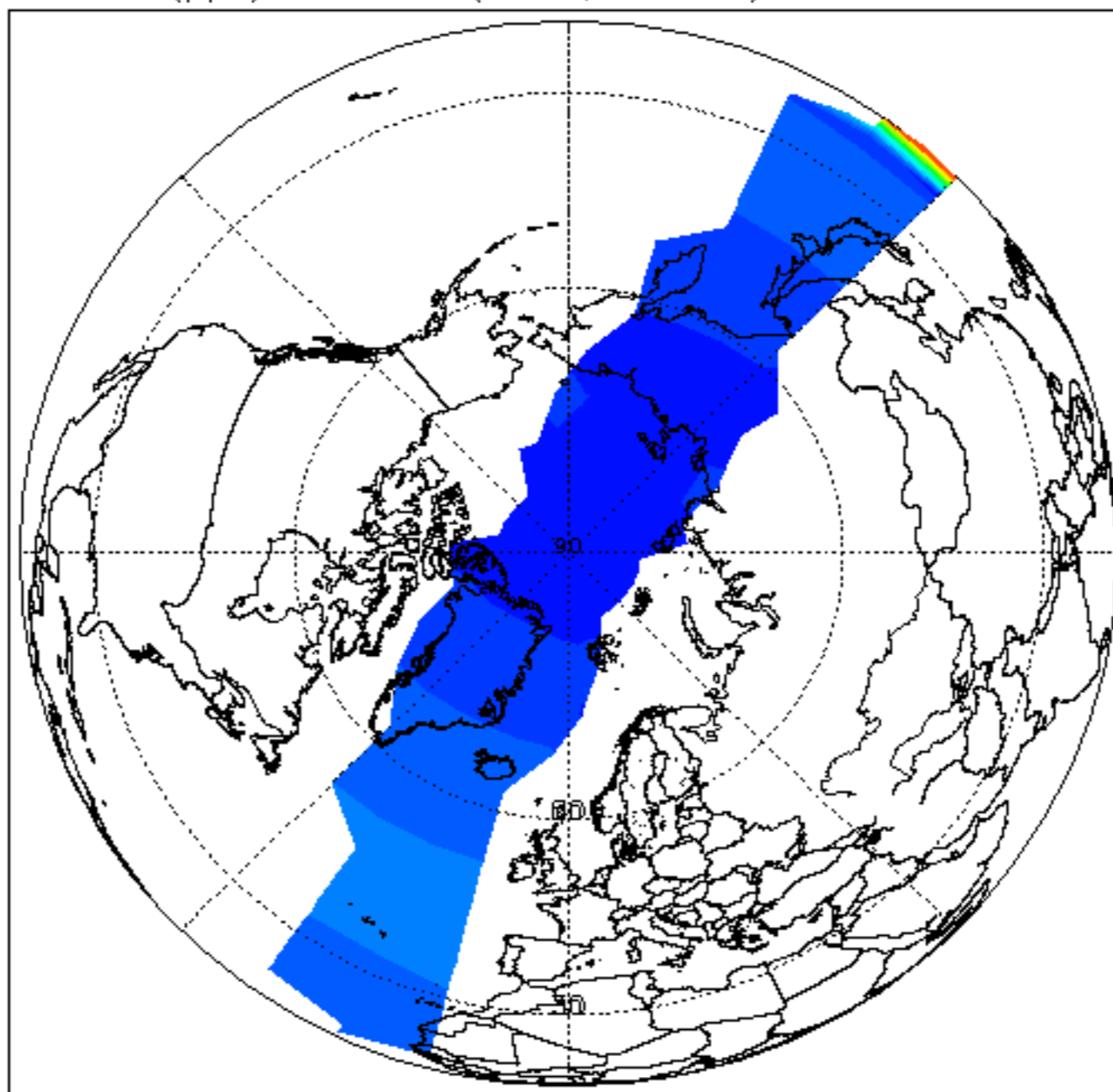
HN03 (ppb) at 410 K (16km, 100hPa). 28-FEB-2012



CH<sub>4</sub> (ppm) at 410 K (16km, 100hPa). 28-FEB-2012

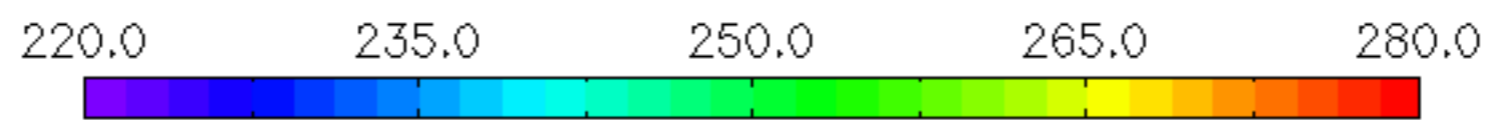
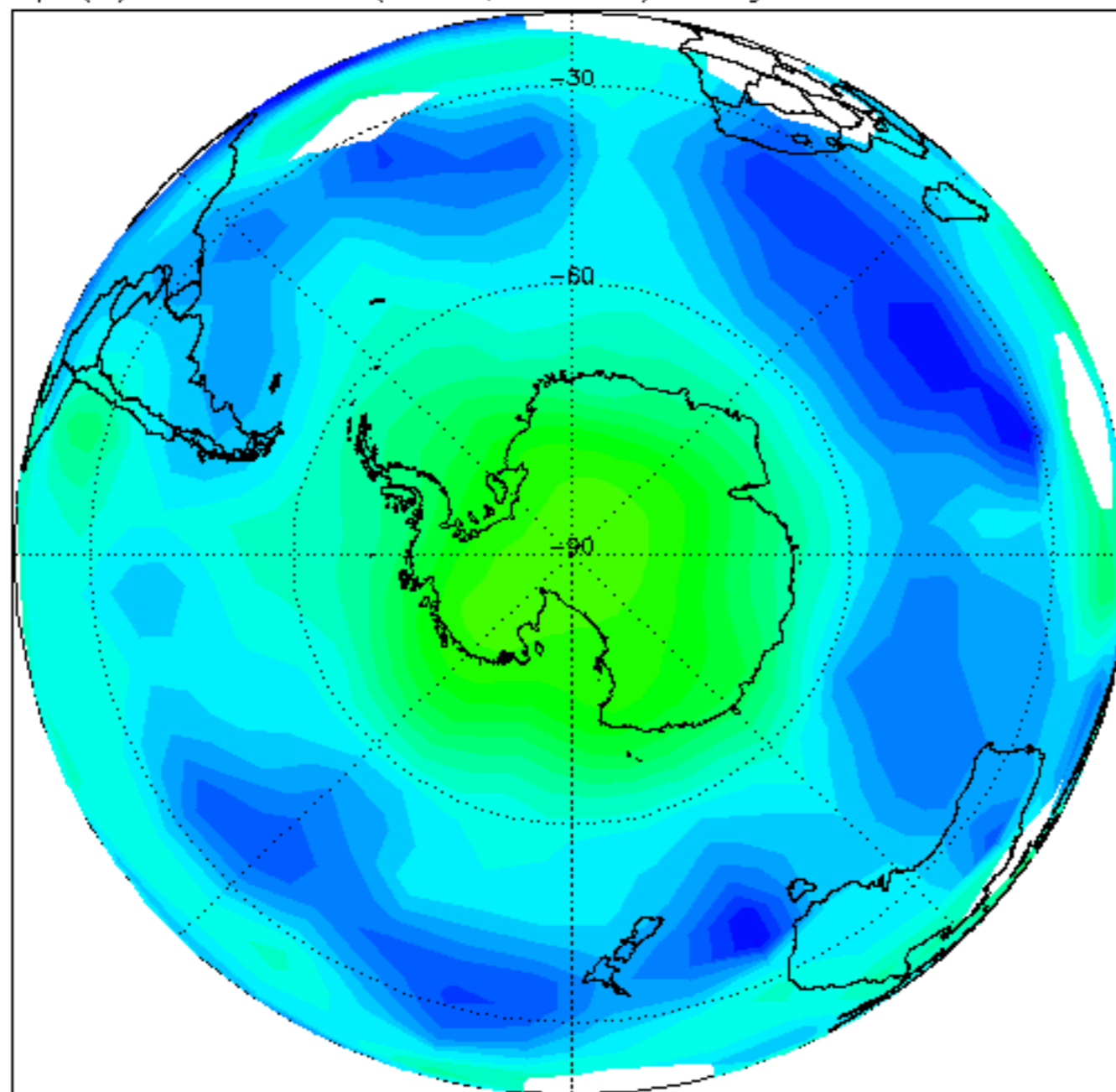


N2O (ppb) at 410 K (16km, 100hPa). 28-FEB-2012

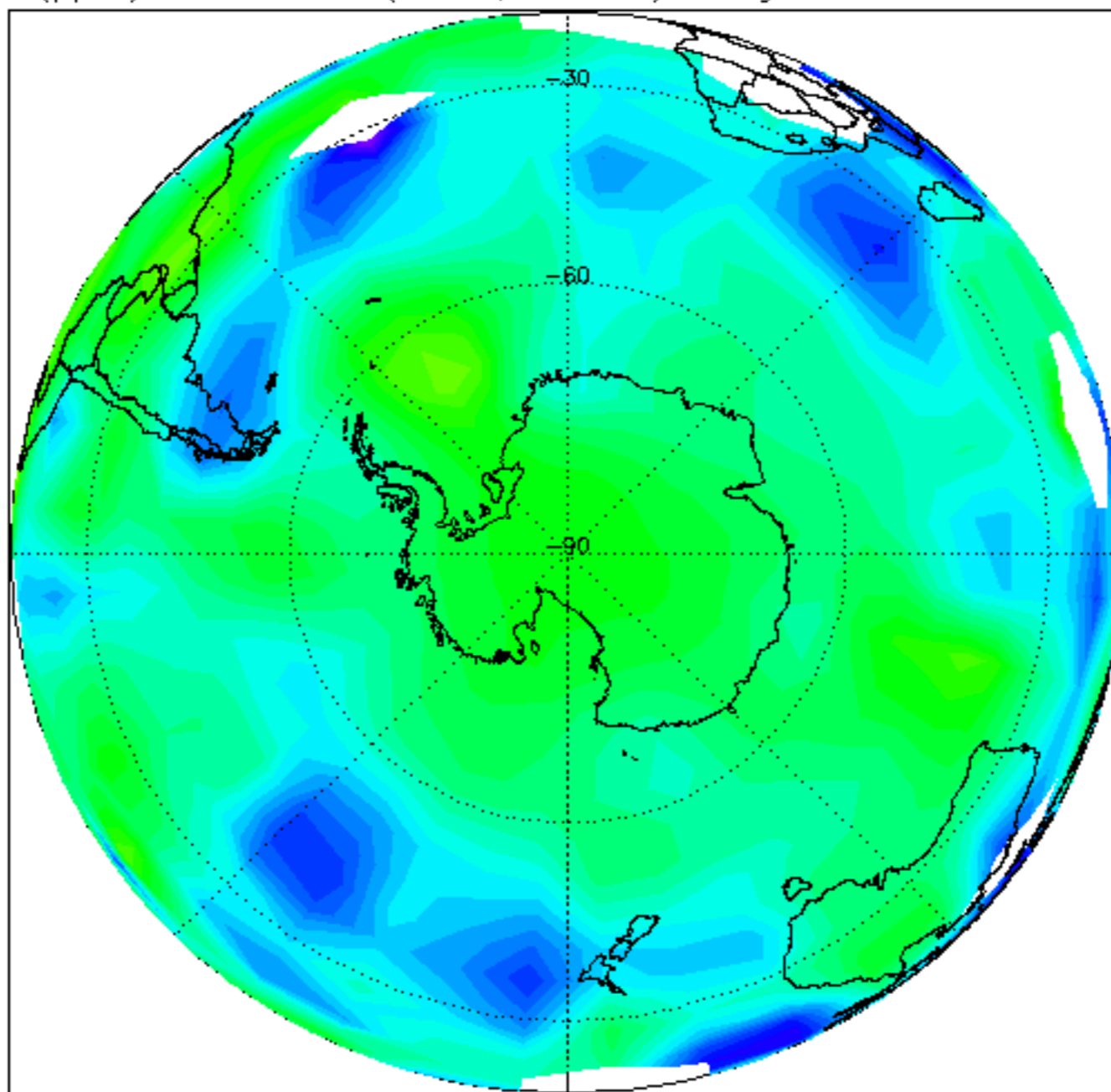




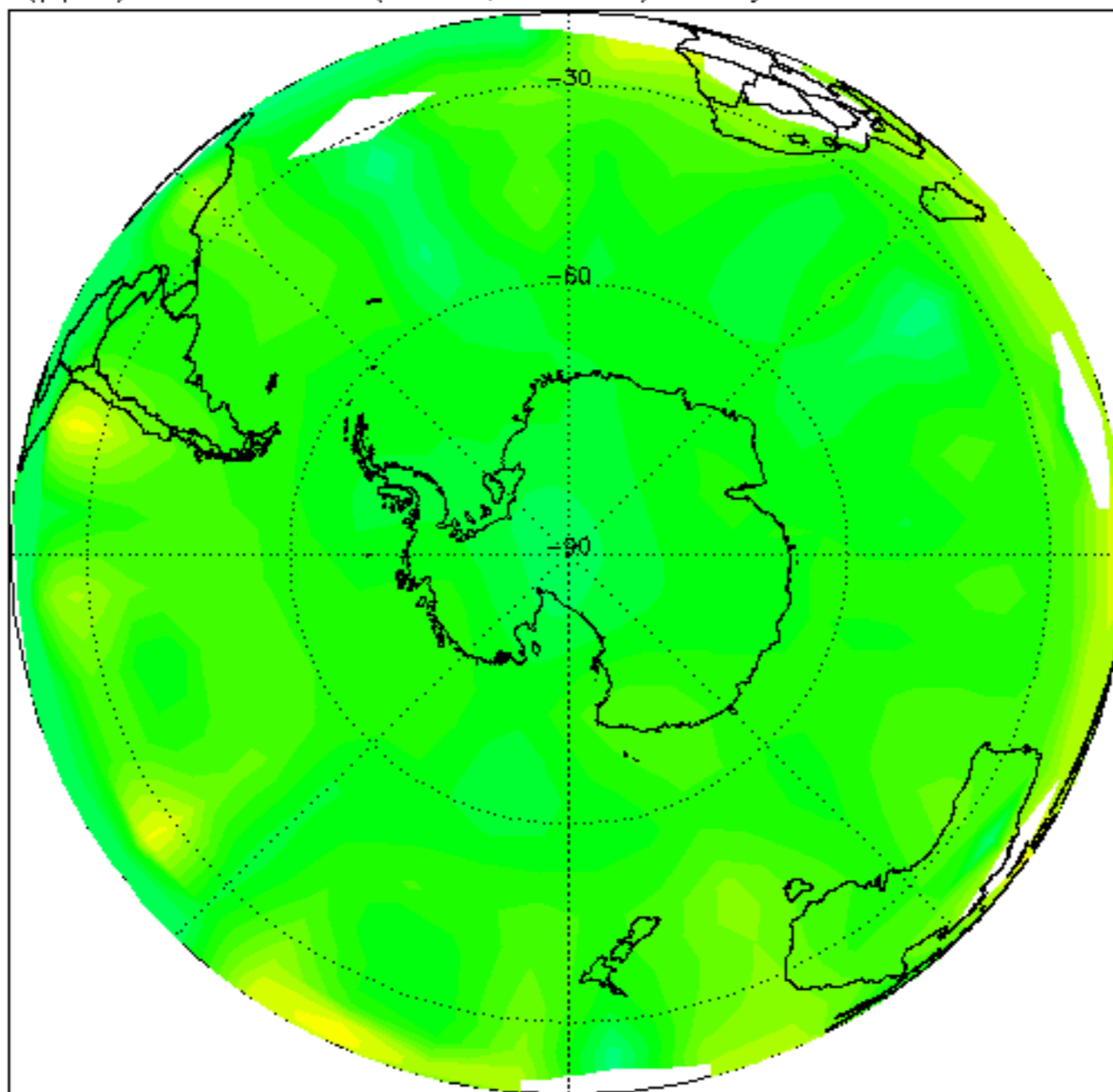
Temp (K) at: 2700 K (60km, 0.2hPa). Daily mean: 28-FEB-2012



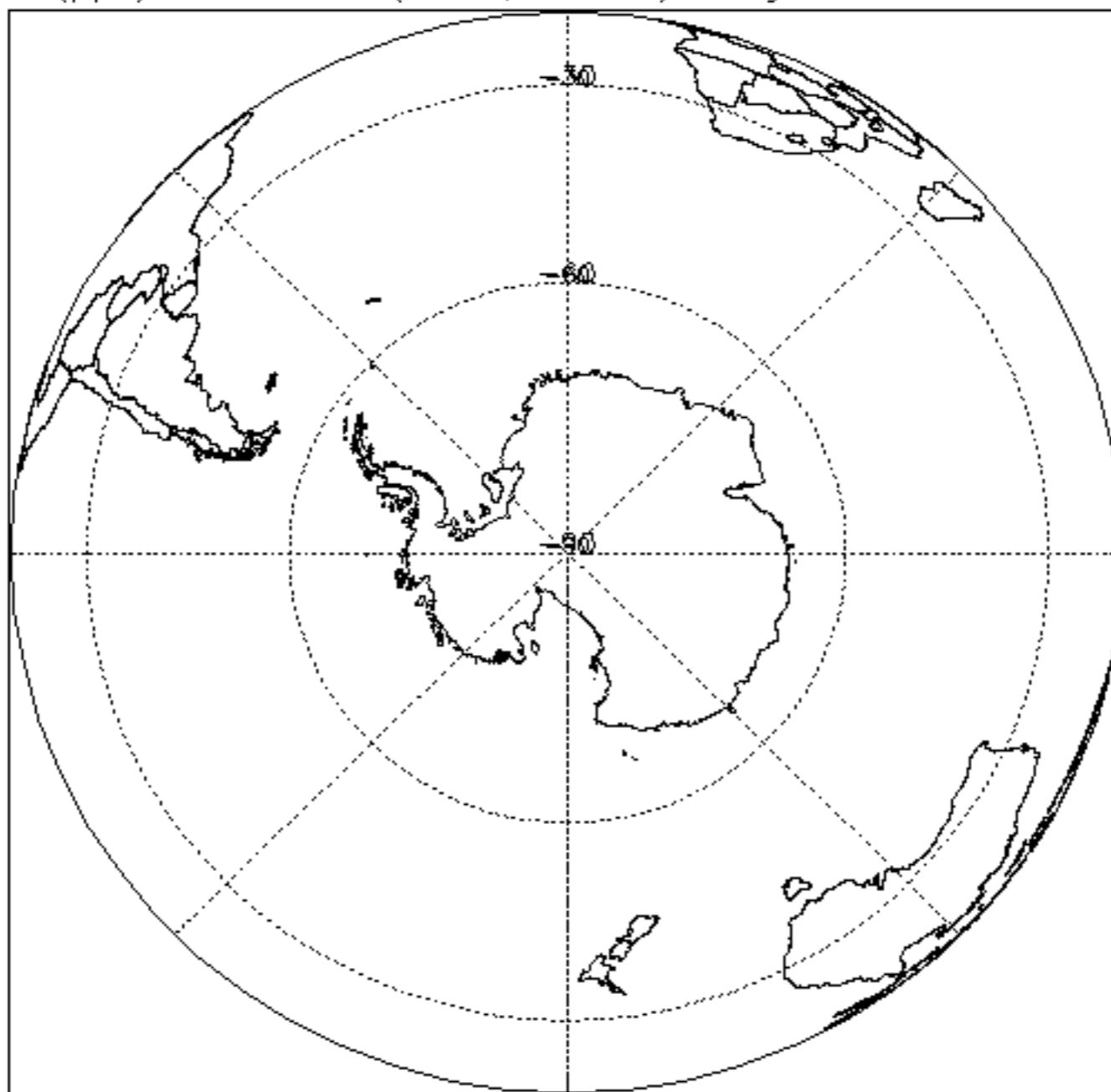
H<sub>2</sub>O (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 28-FEB-2012



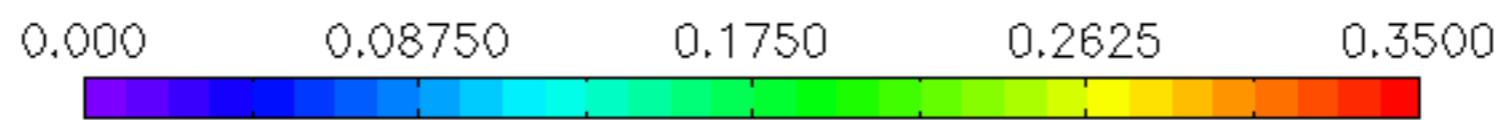
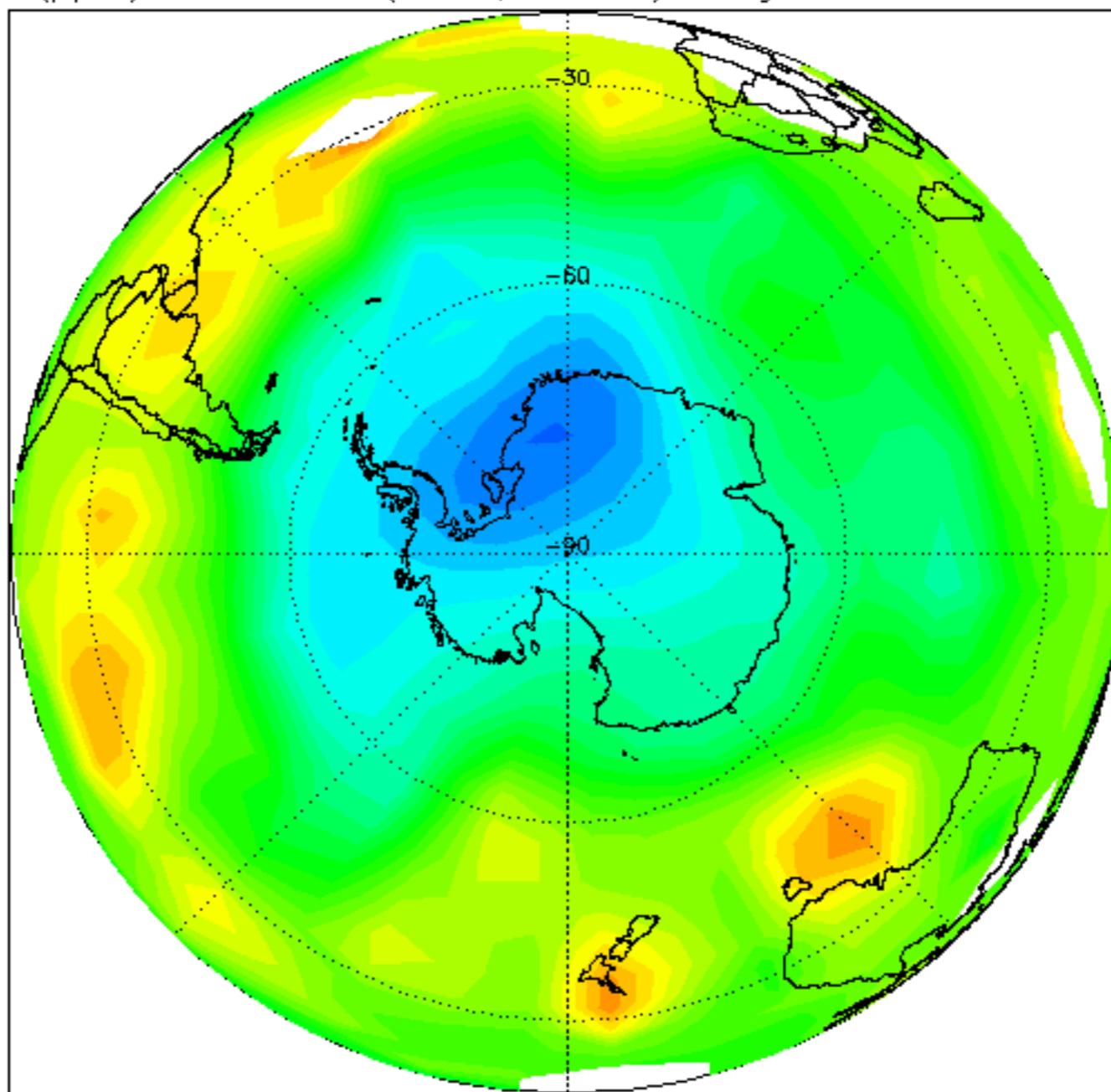
O<sub>3</sub> (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 28-FEB-2012



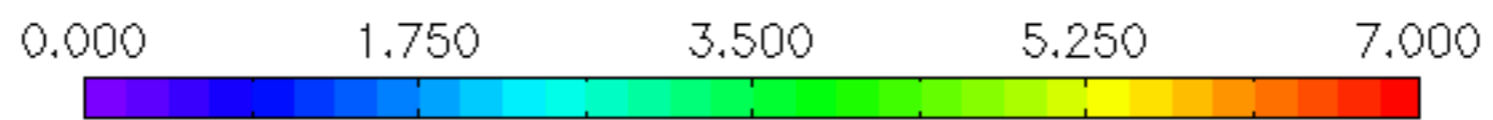
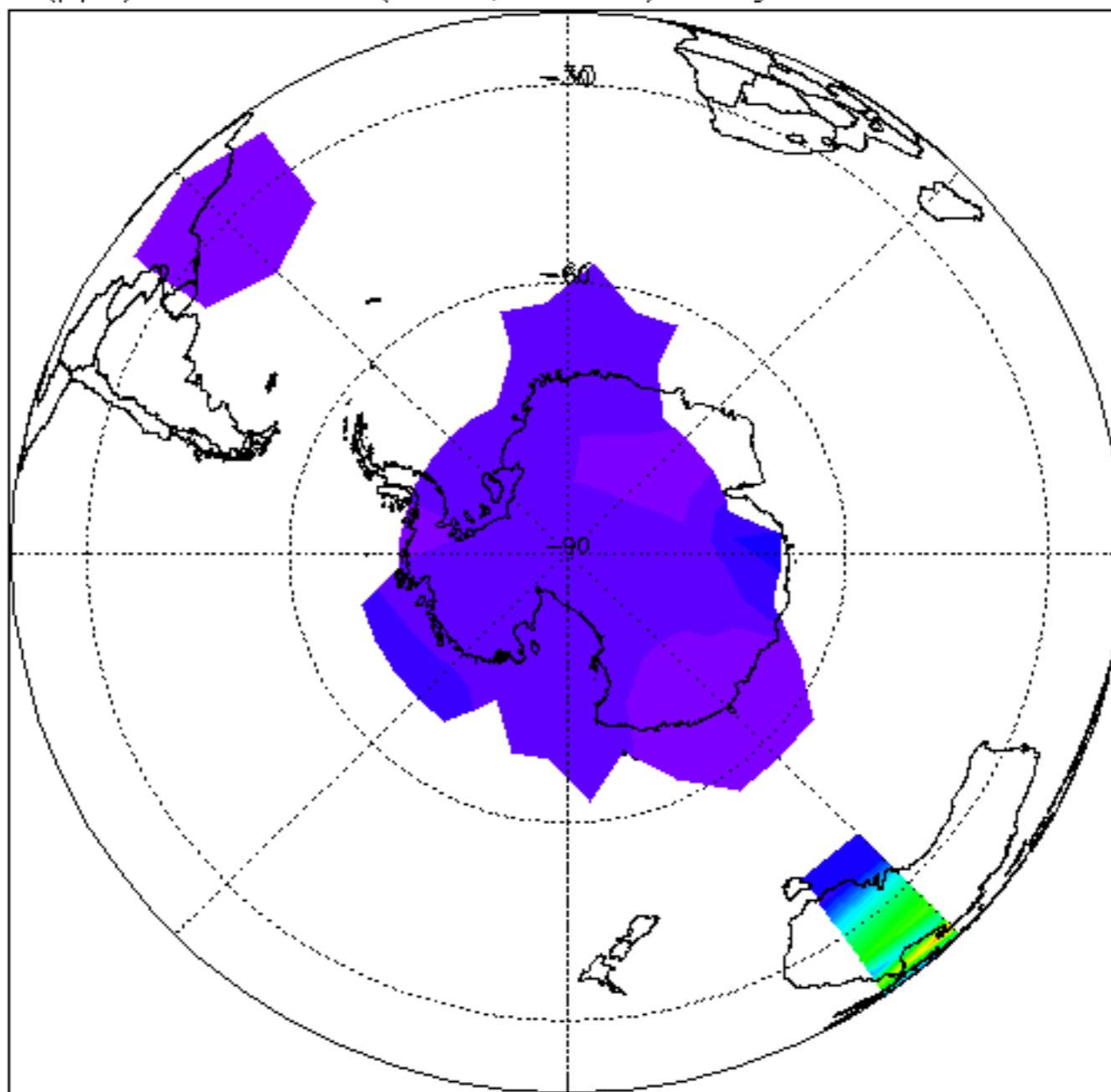
HN03 (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 28-FEB-2012



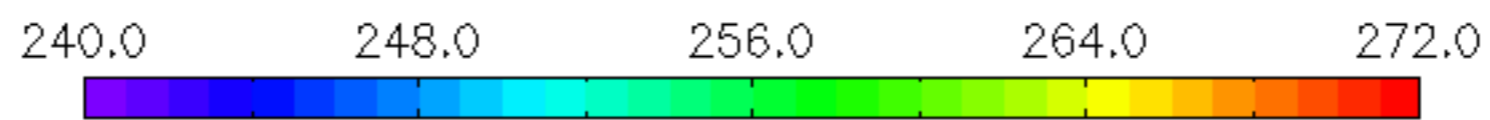
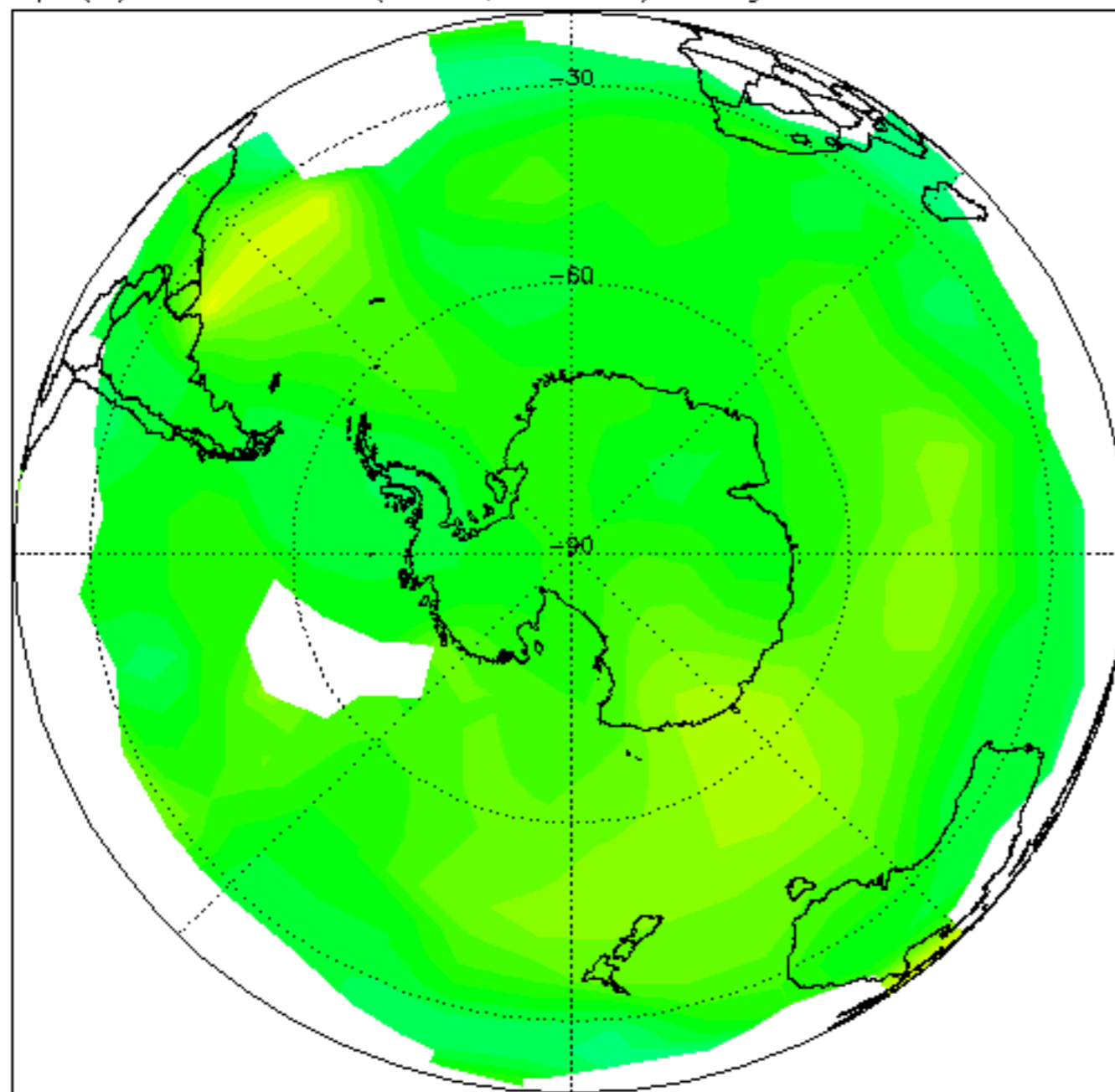
CH<sub>4</sub> (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 28-FEB-2012



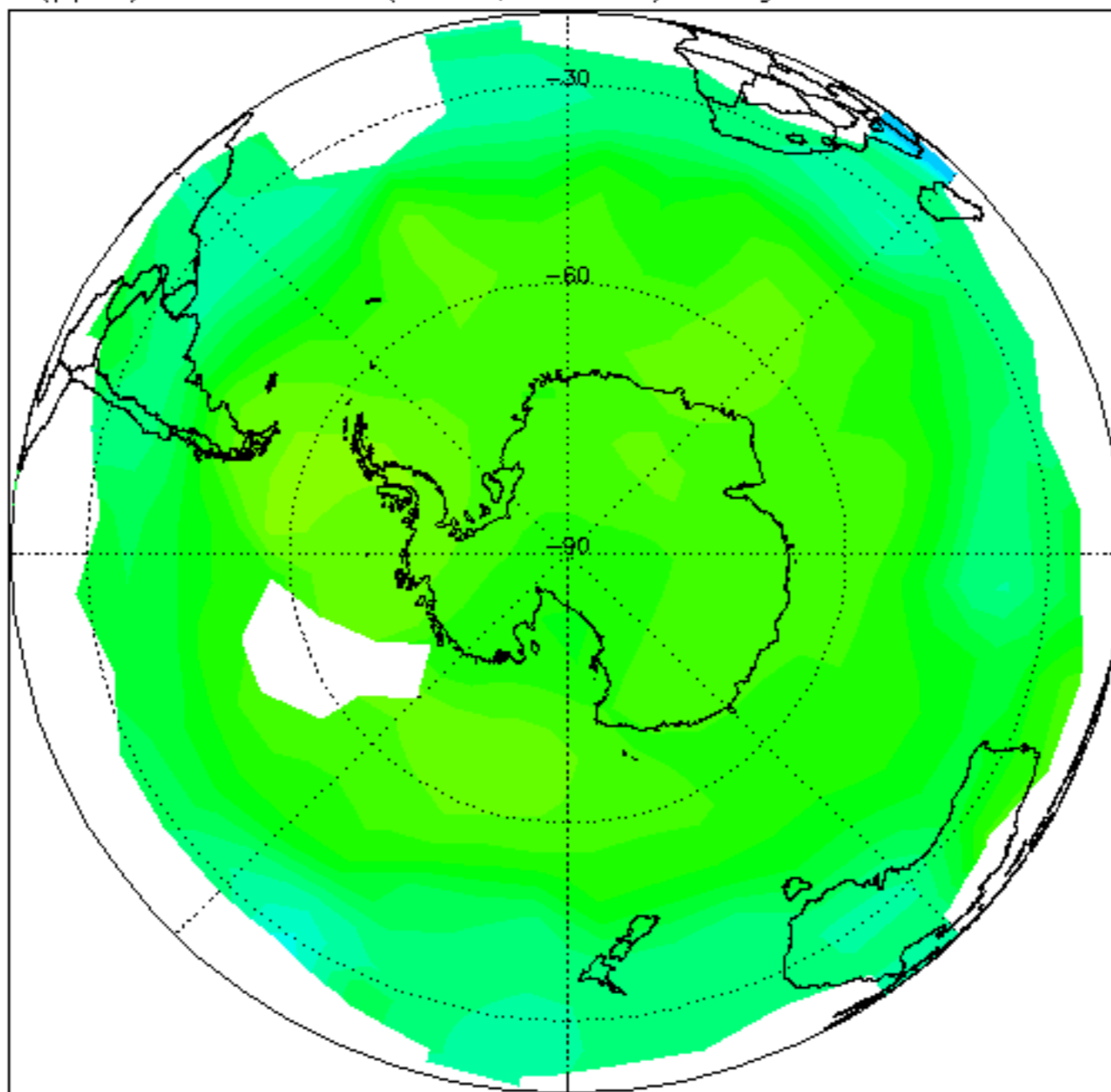
N<sub>2</sub>O (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 28-FEB-2012



Temp (K) at: 1700 K (45km, 1.5hPa). Daily mean: 28-FEB-2012

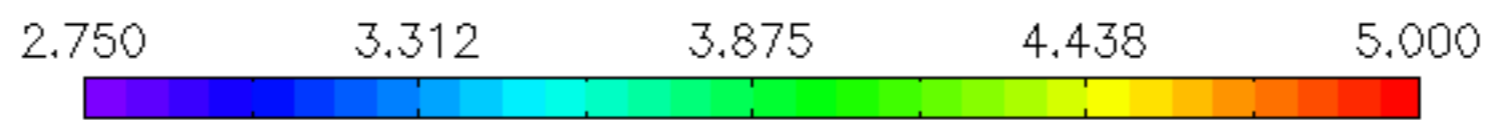
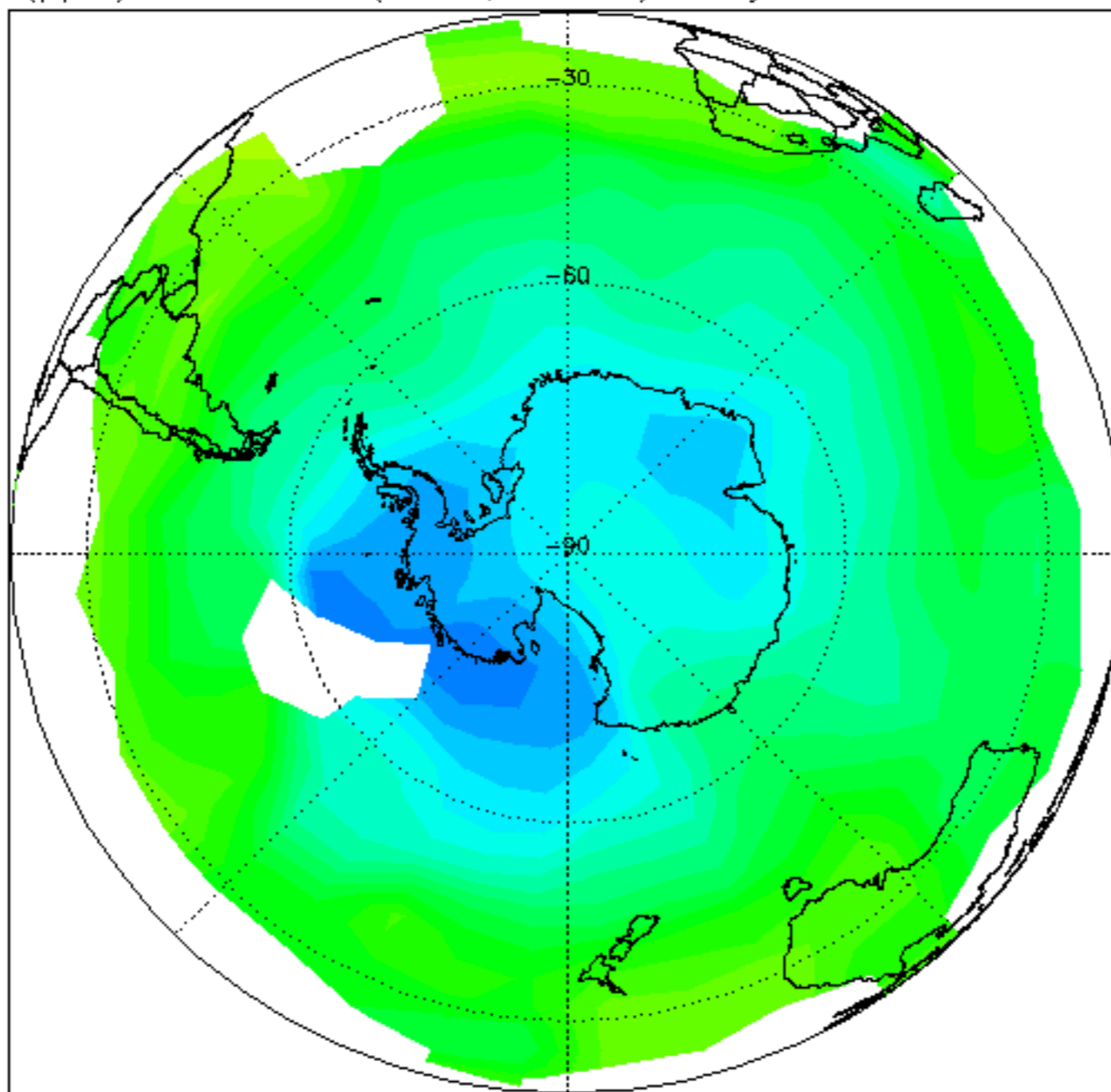


H<sub>2</sub>O (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 28-FEB-2012

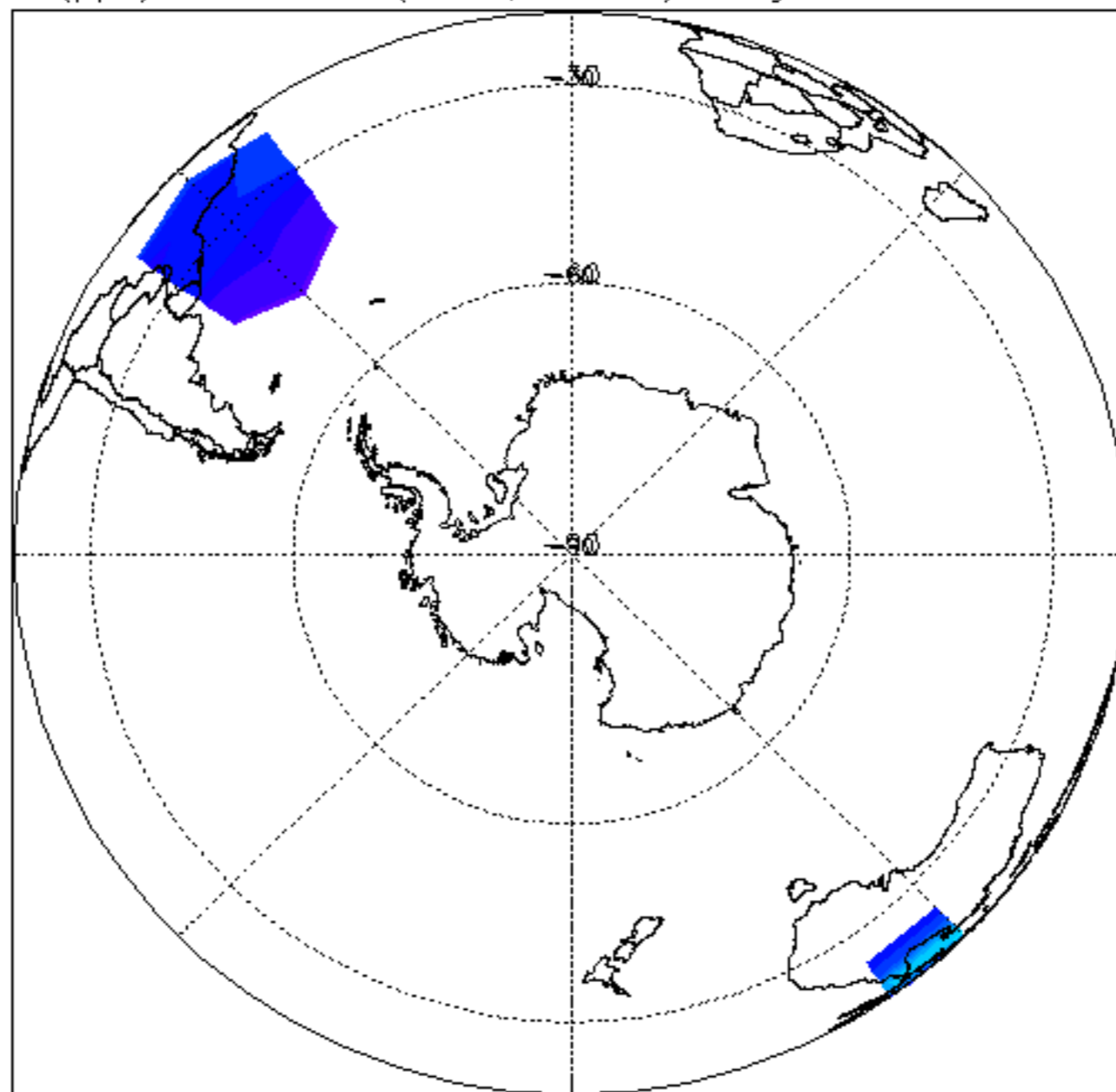




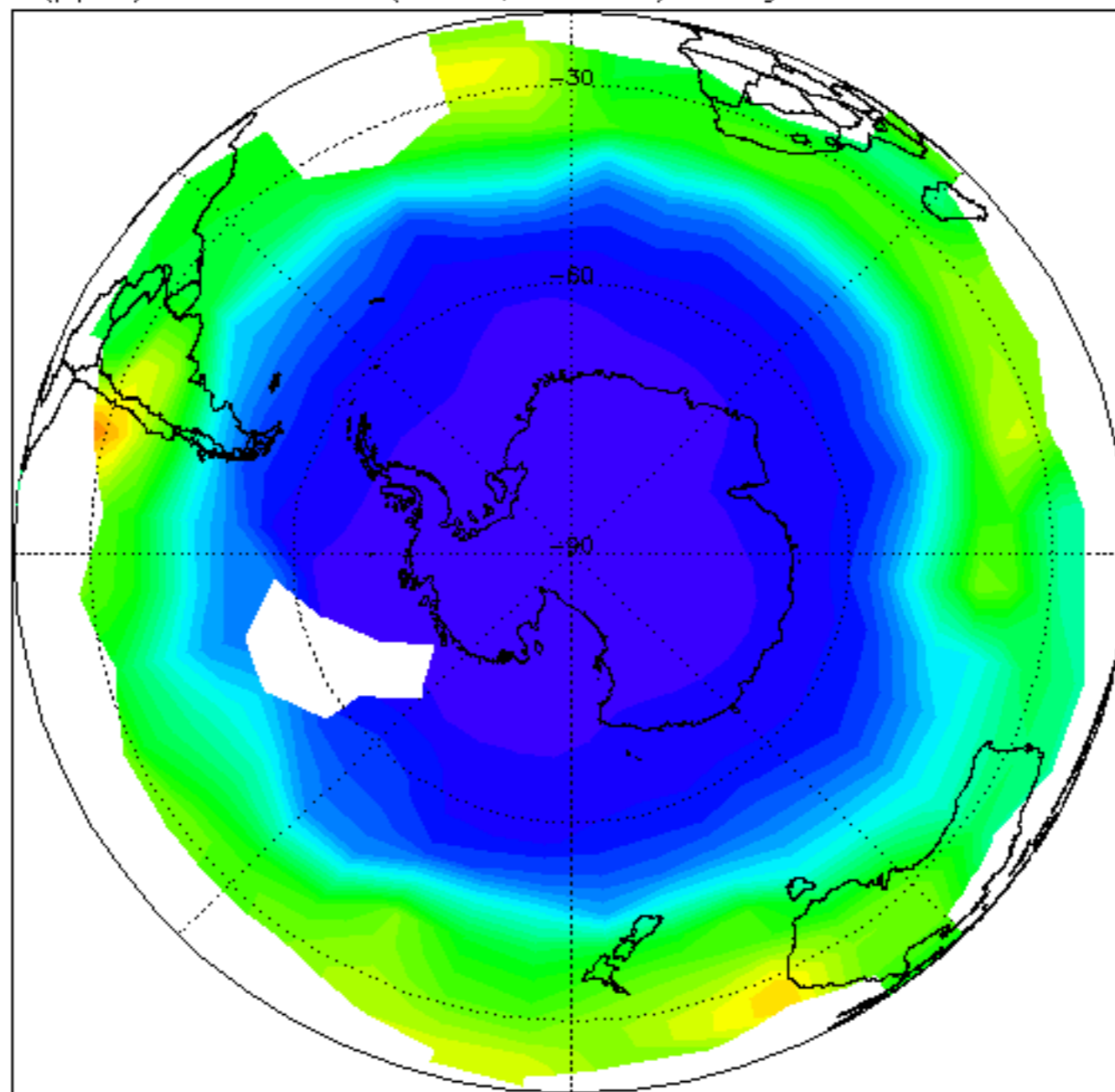
O<sub>3</sub> (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 28-FEB-2012



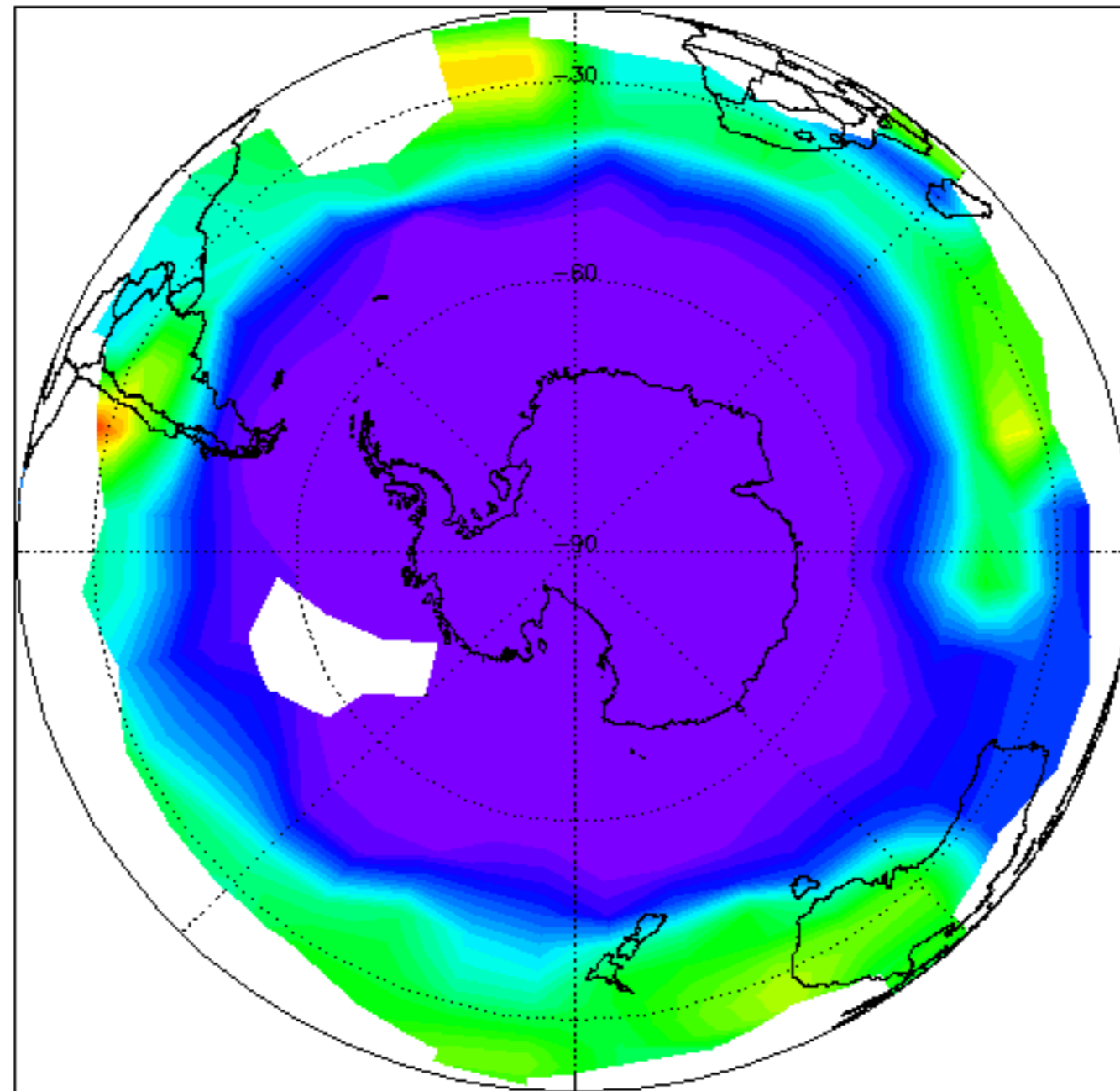
HN03 (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 28-FEB-2012



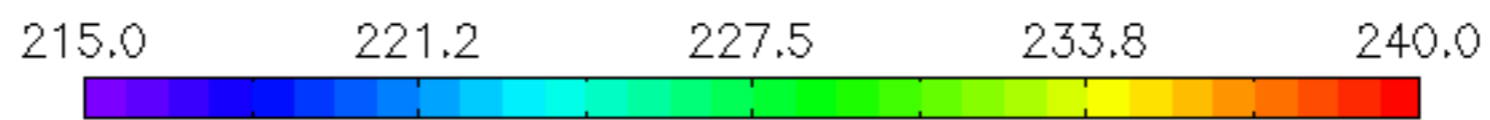
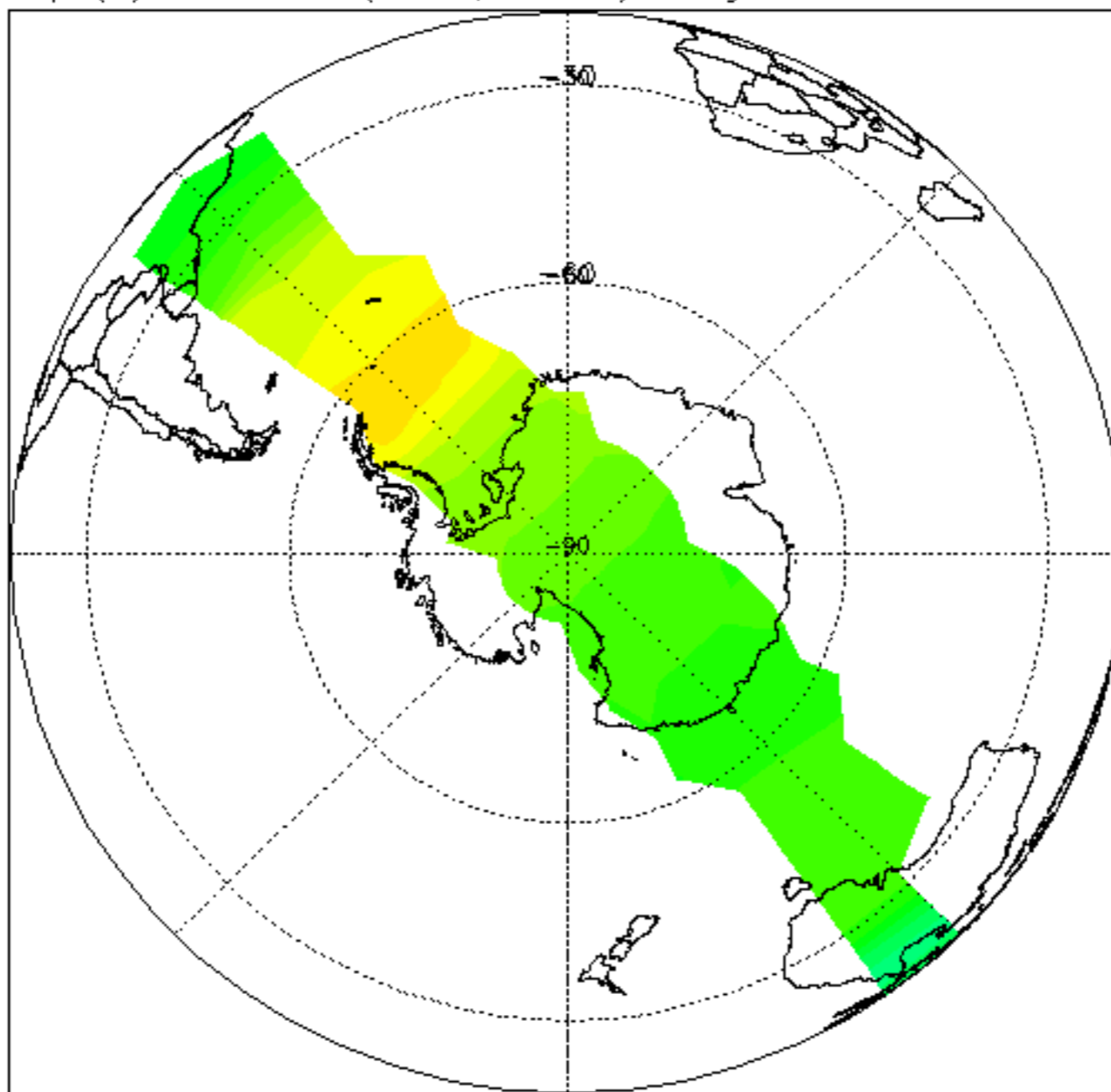
CH<sub>4</sub> (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 28-FEB-2012



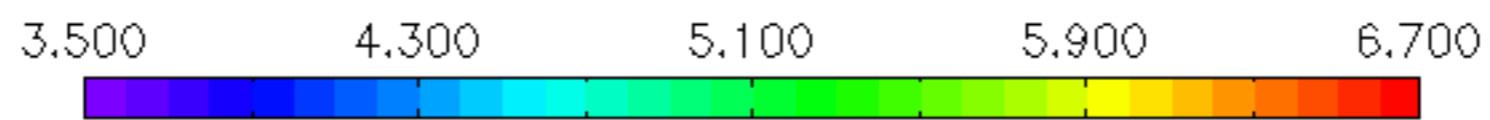
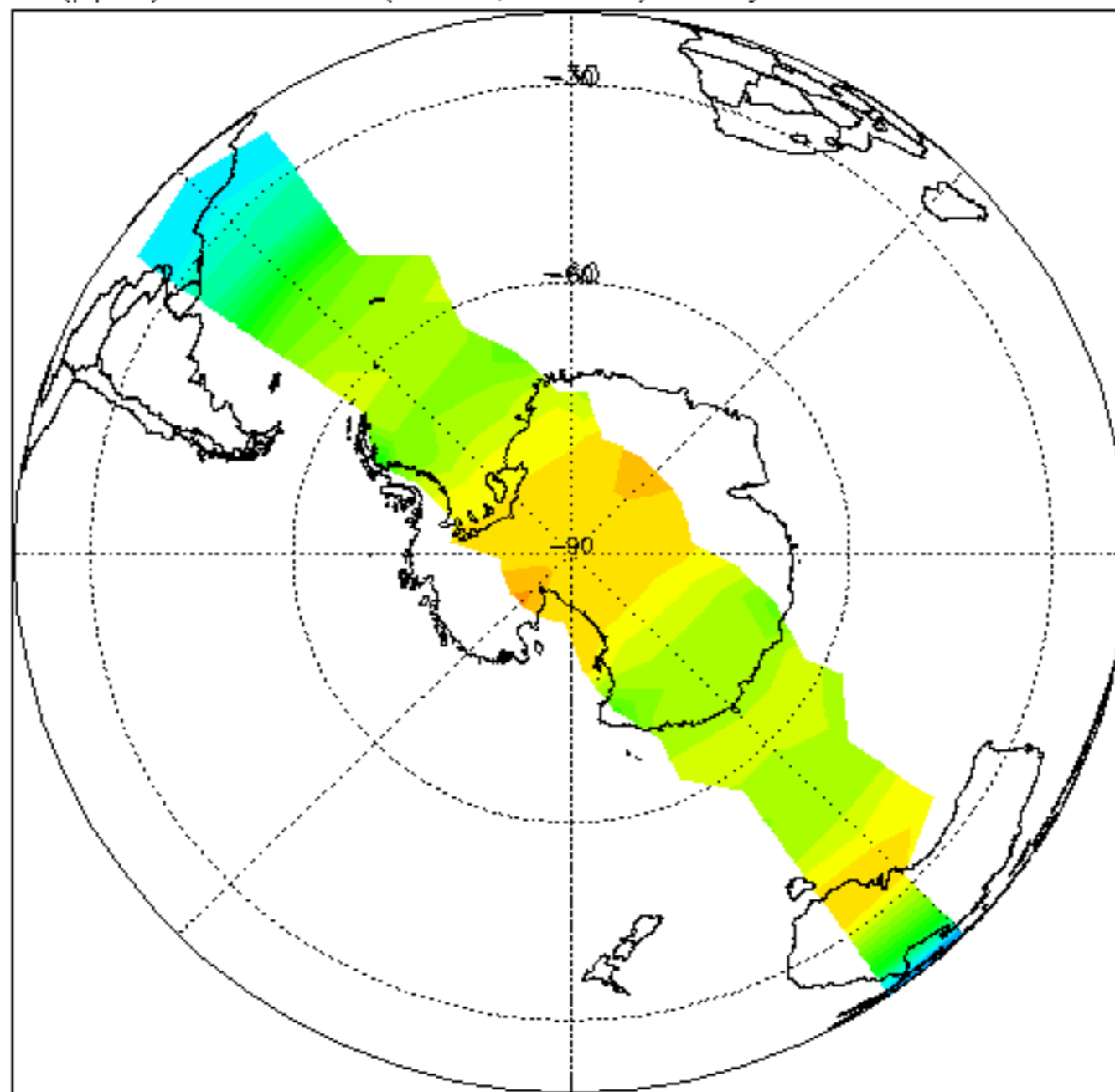
N<sub>2</sub>O (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 28-FEB-2012



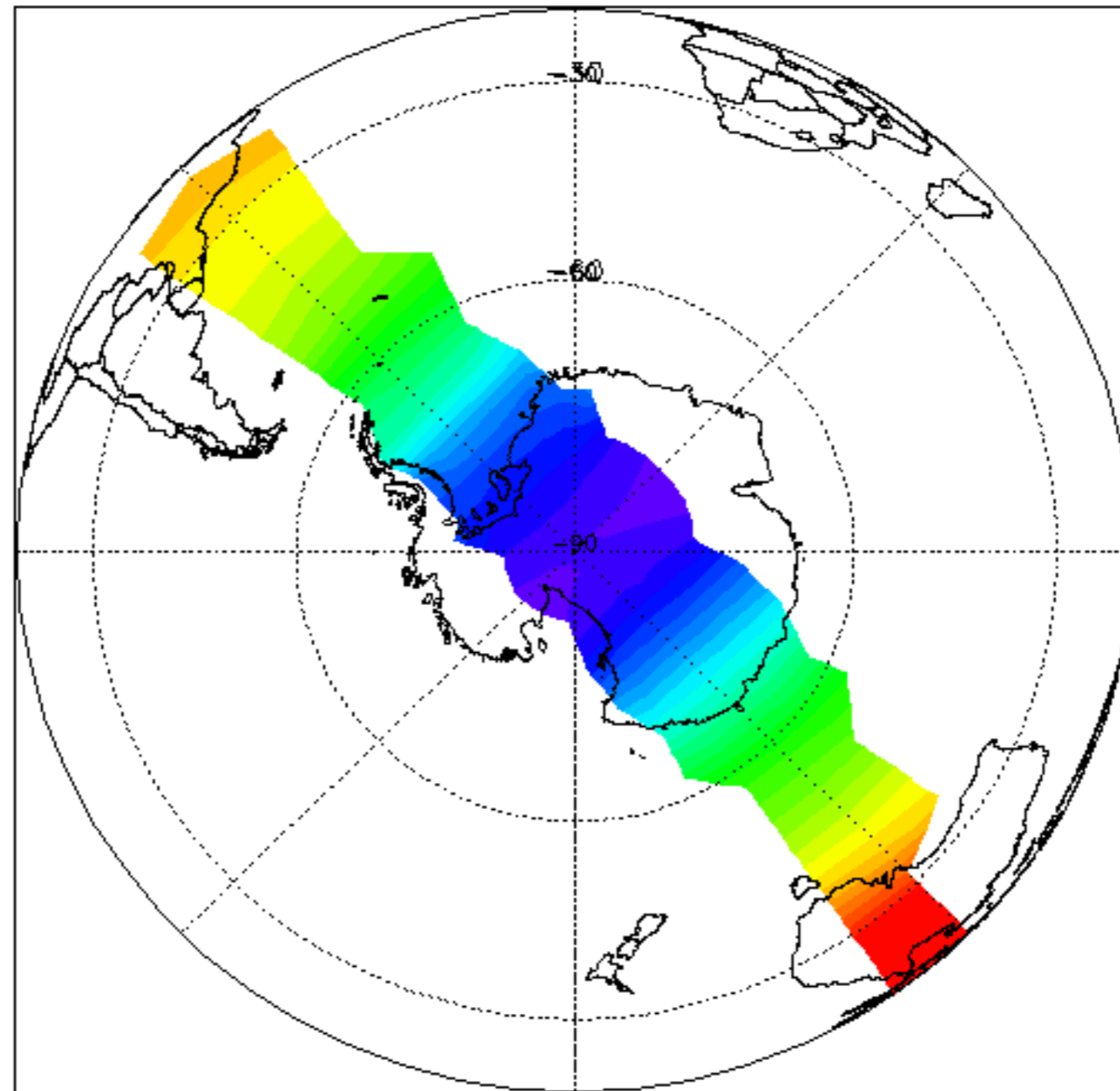
Temp (K) at: 850 K (32km, 10hPa). Daily mean: 28-FEB-2012



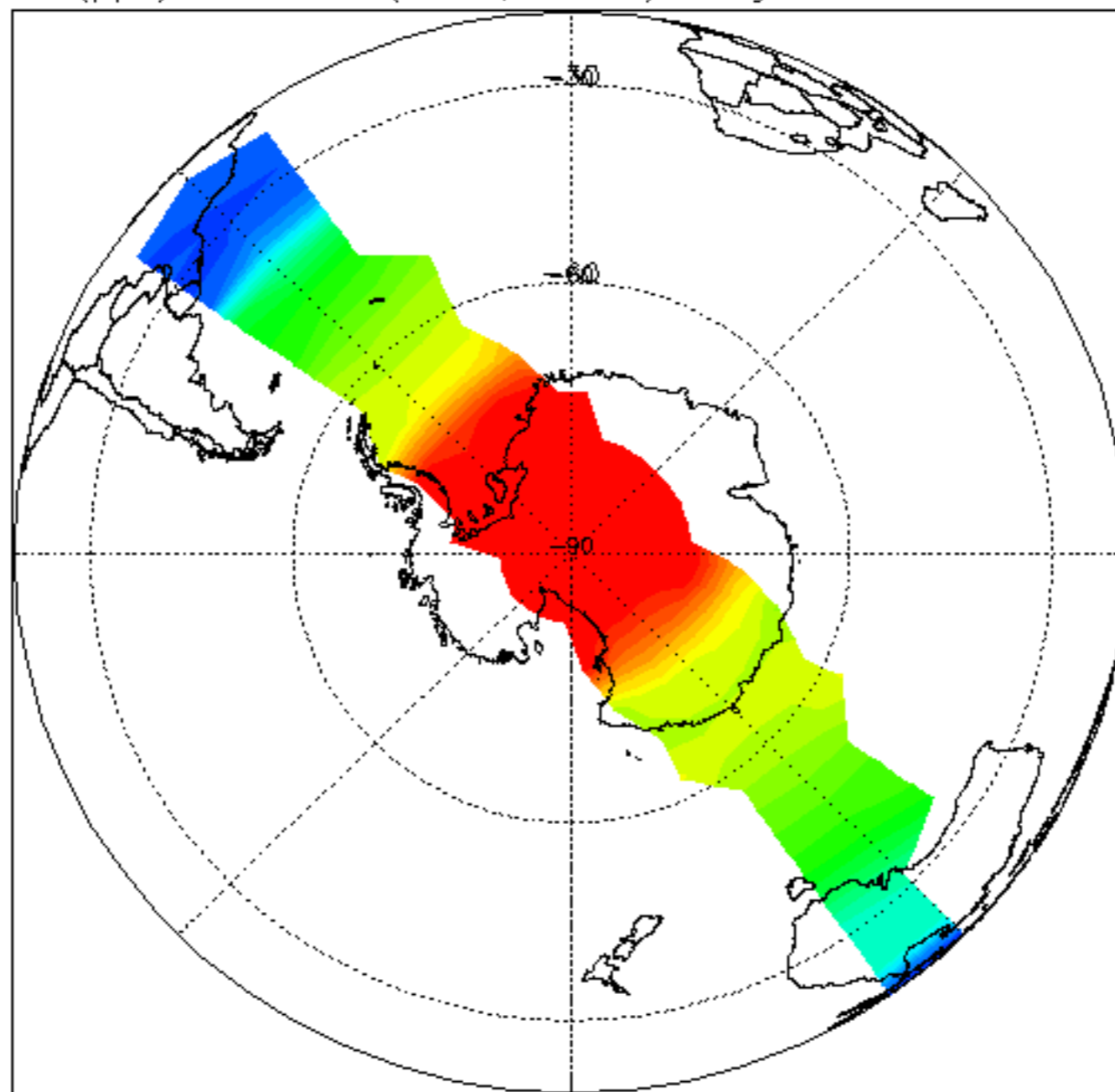
H<sub>2</sub>O (ppm) at: 850 K (32km, 10hPa). Daily mean: 28-FEB-2012



O<sub>3</sub> (ppm) at: 850 K (32km, 10hPa). Daily mean: 28-FEB-2012

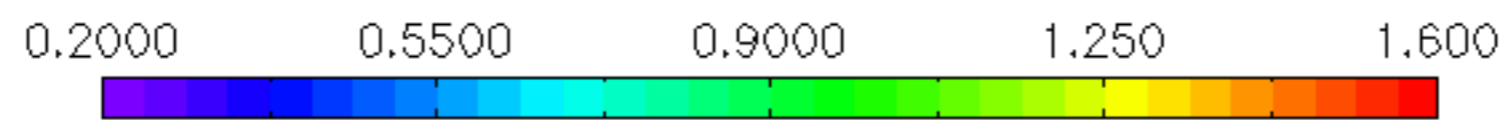
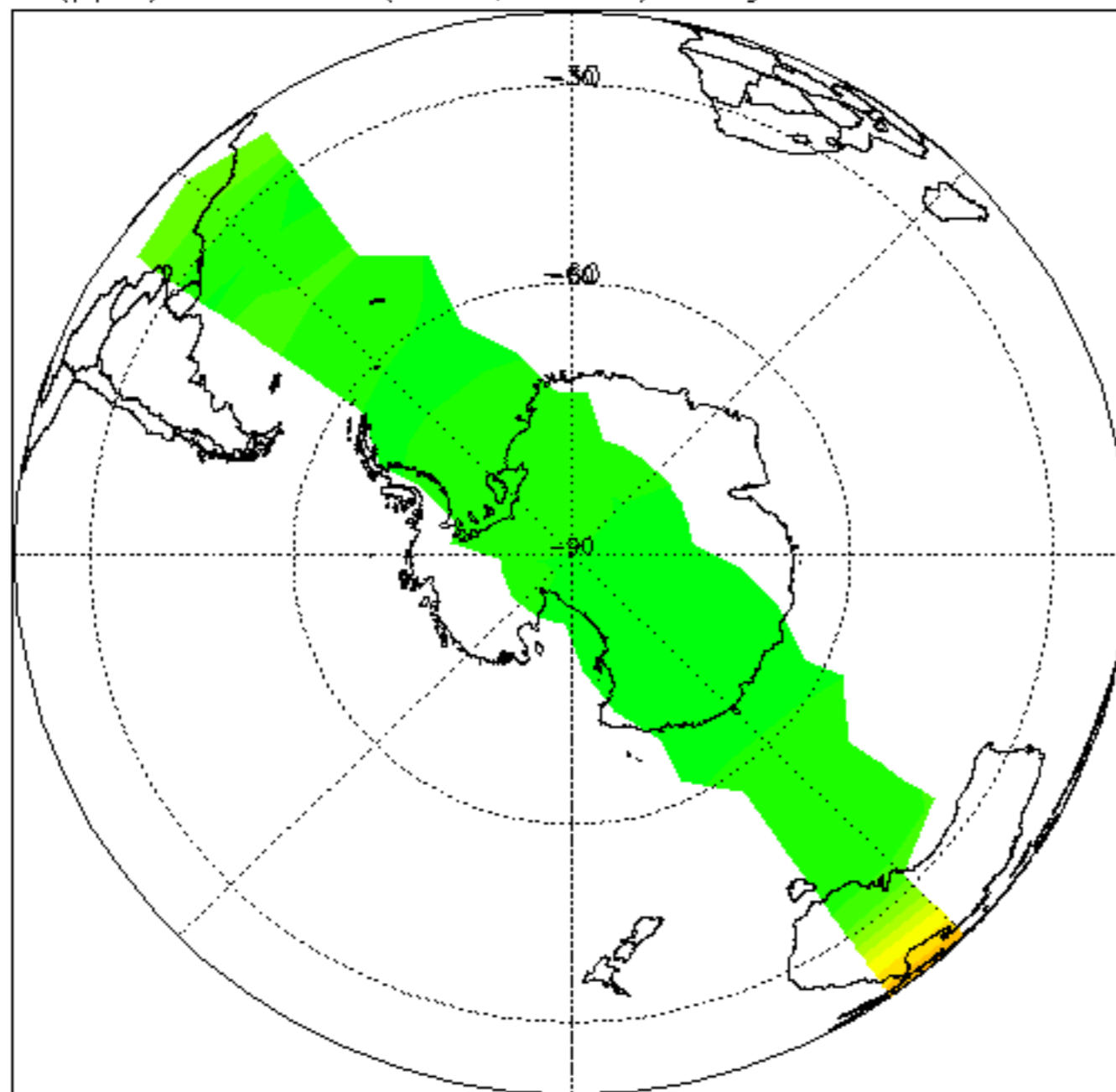


HNO<sub>3</sub> (ppb) at: 850 K (32km, 10hPa). Daily mean: 28-FEB-2012

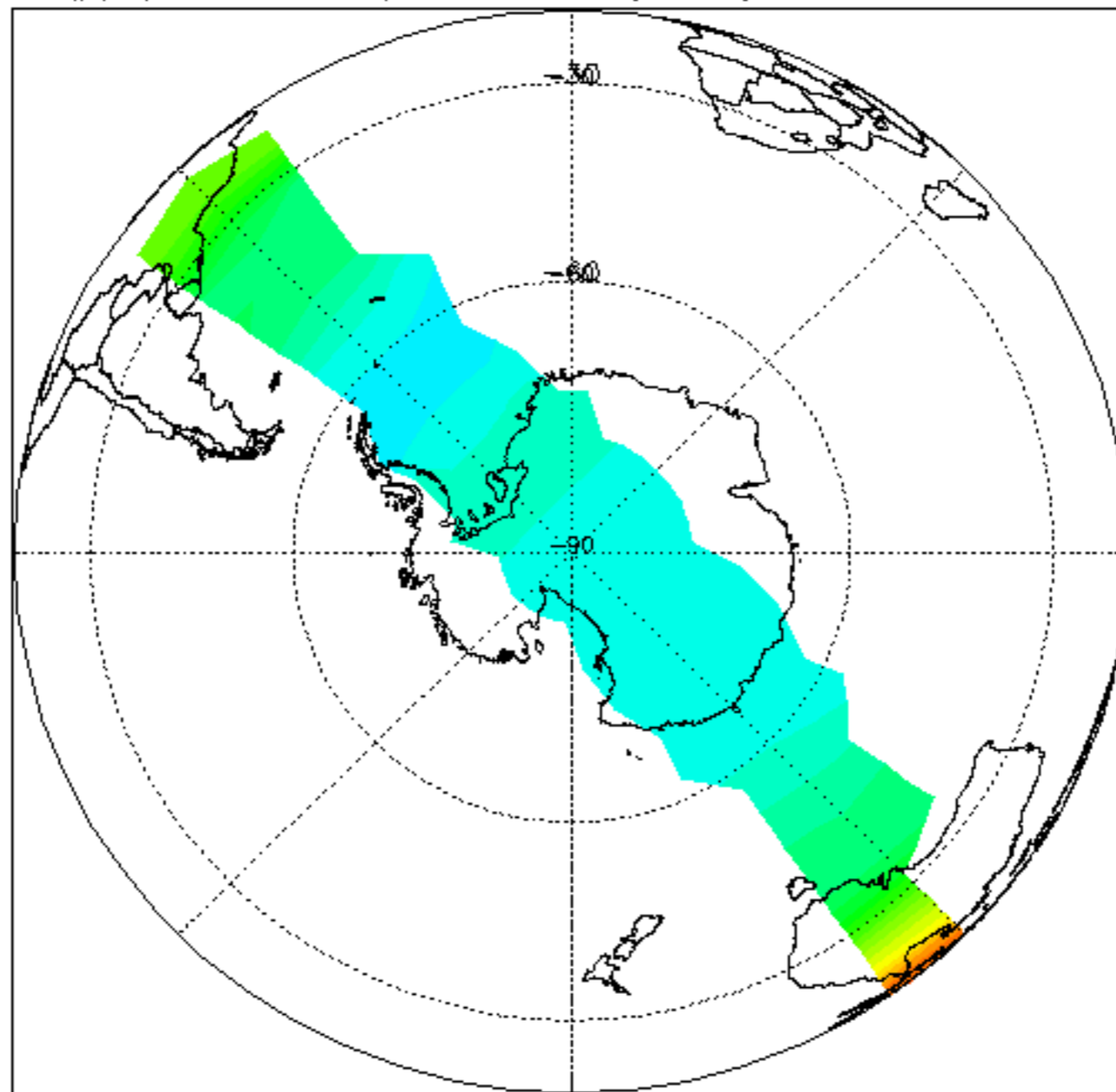




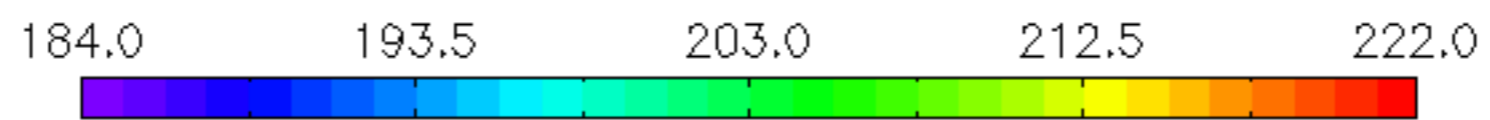
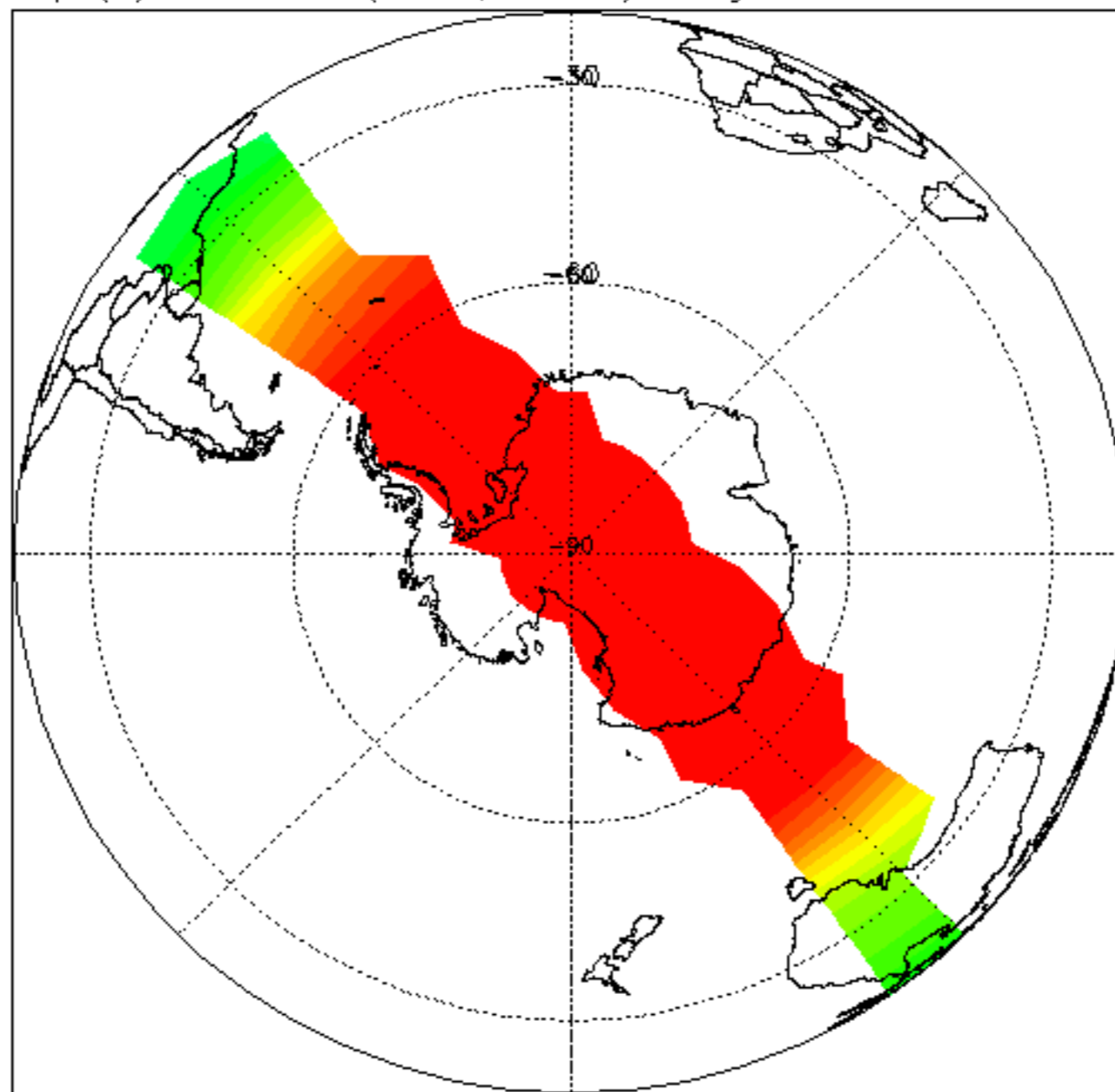
CH<sub>4</sub> (ppm) at: 850 K (32km, 10hPa). Daily mean: 28-FEB-2012



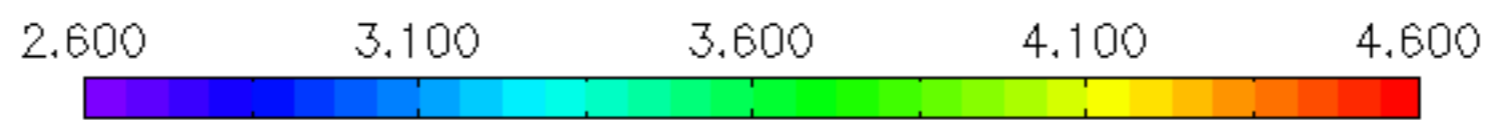
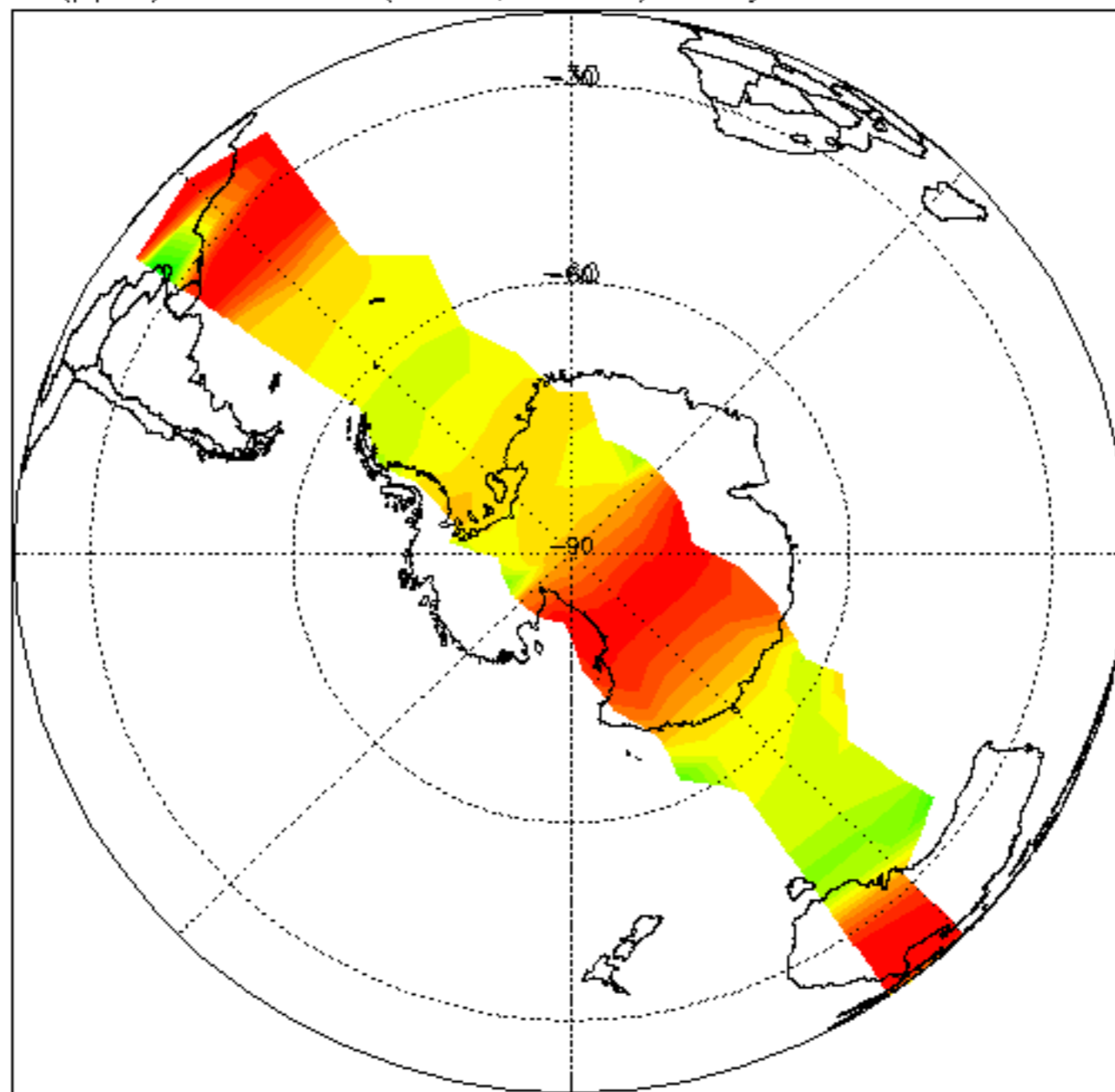
N<sub>2</sub>O (ppb) at: 850 K (32km, 10hPa). Daily mean: 28-FEB-2012



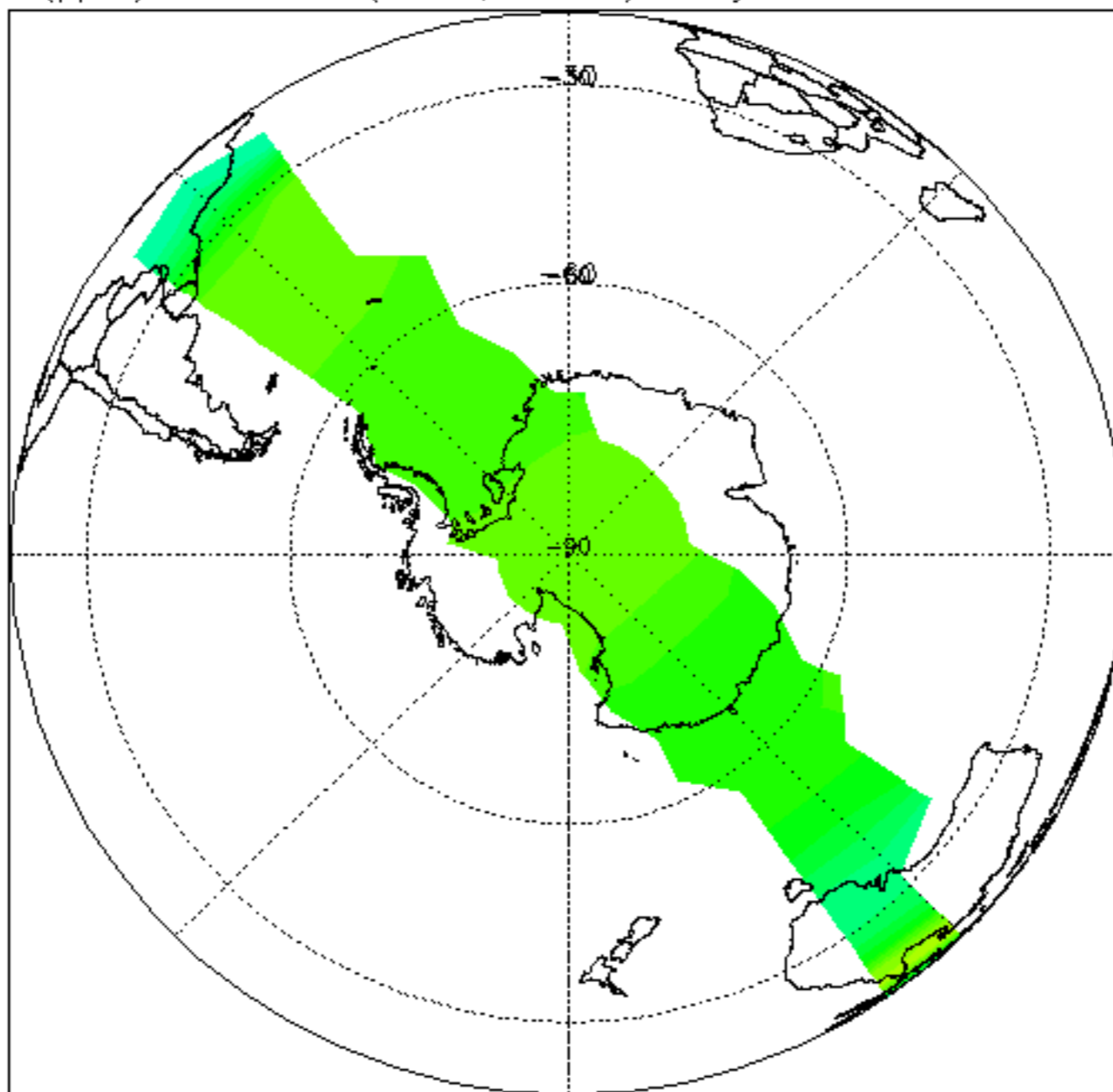
Temp (K) at: 490 K (19km, 55hPa). Daily mean: 28-FEB-2012



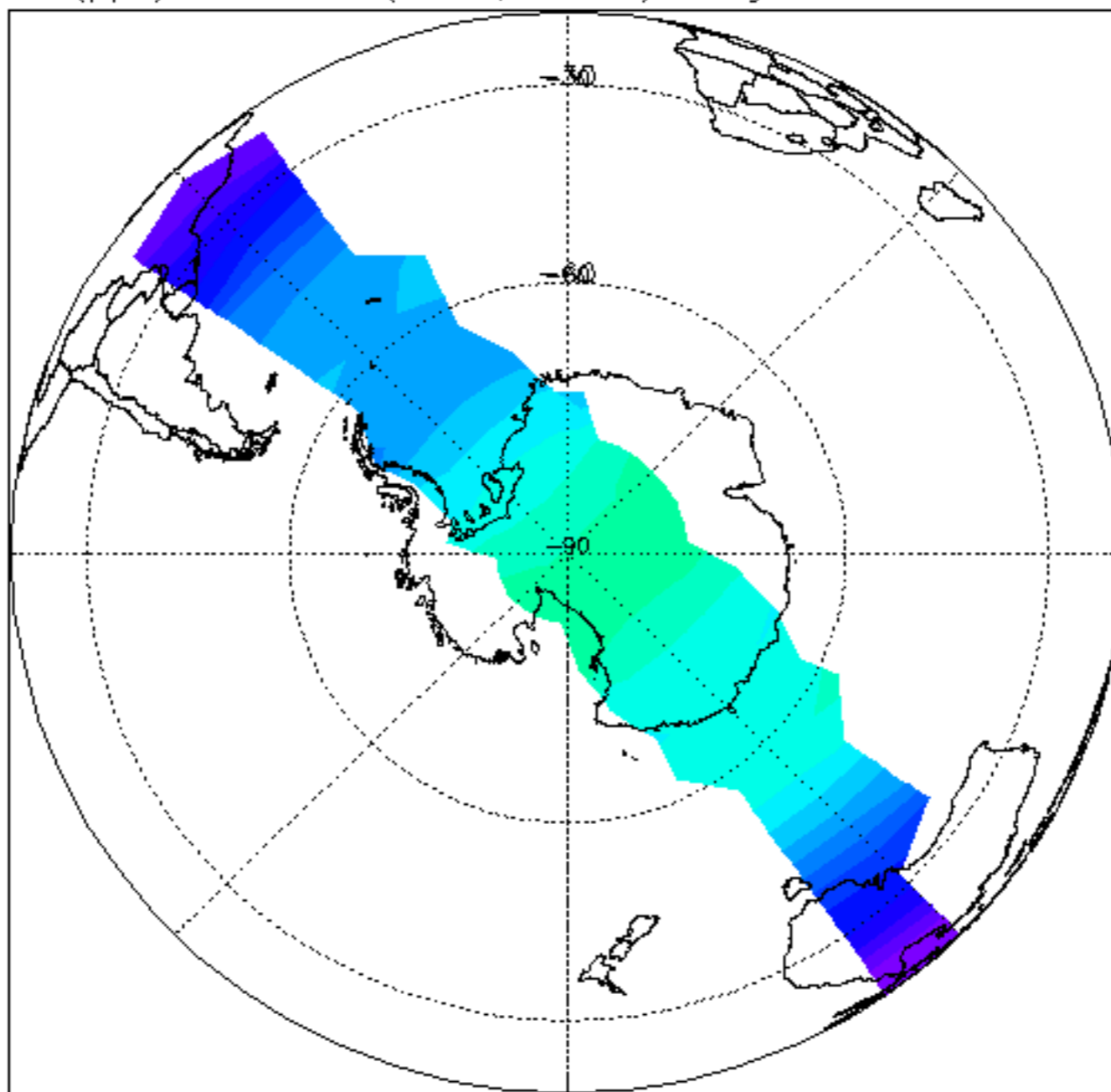
H<sub>2</sub>O (ppm) at: 490 K (19km, 55hPa). Daily mean: 28-FEB-2012



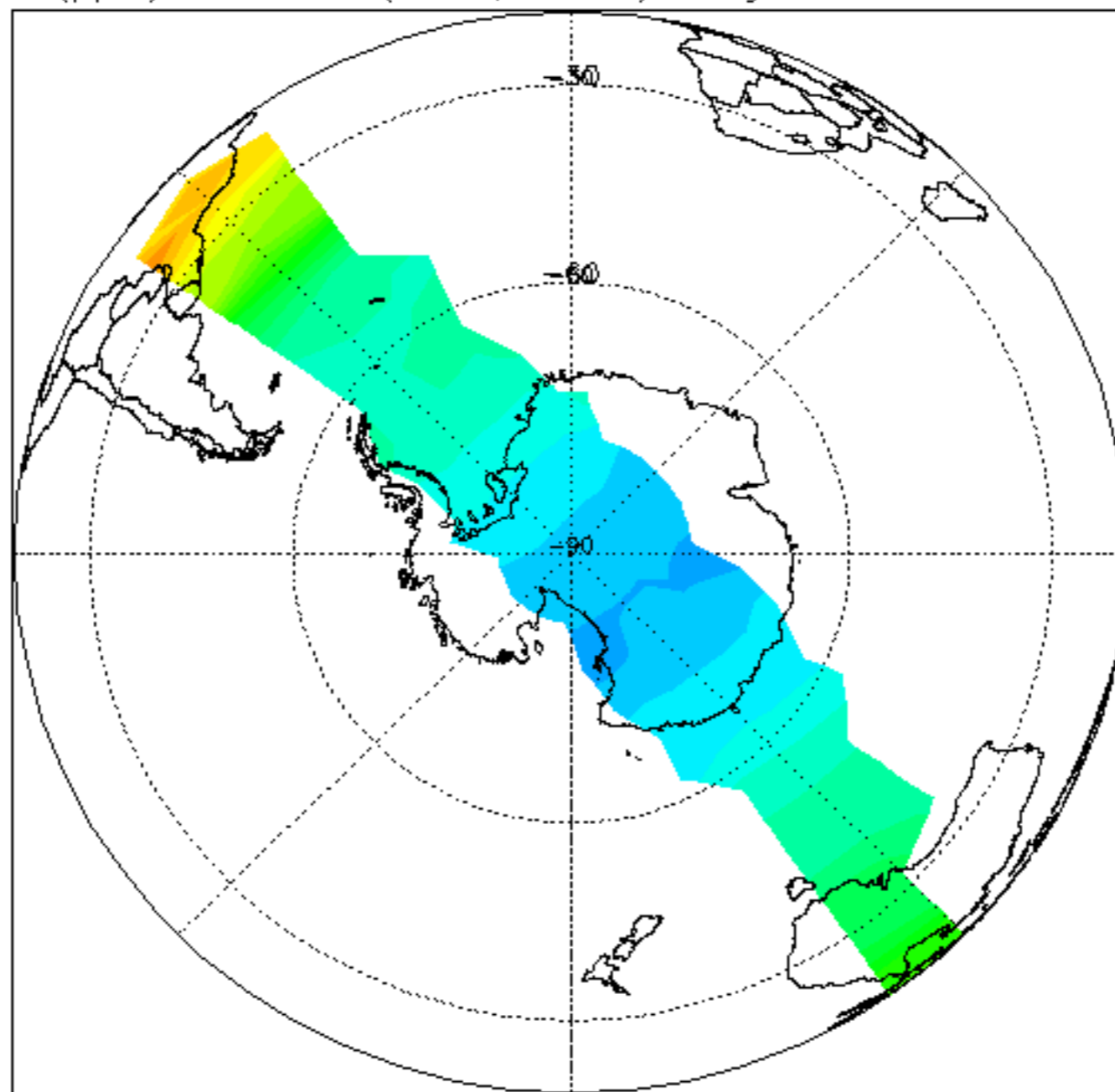
O<sub>3</sub> (ppm) at: 490 K (19km, 55hPa). Daily mean: 28-FEB-2012



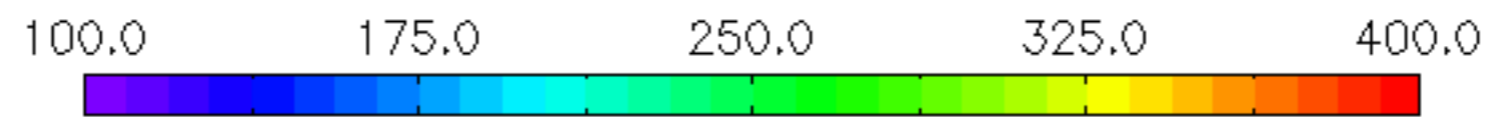
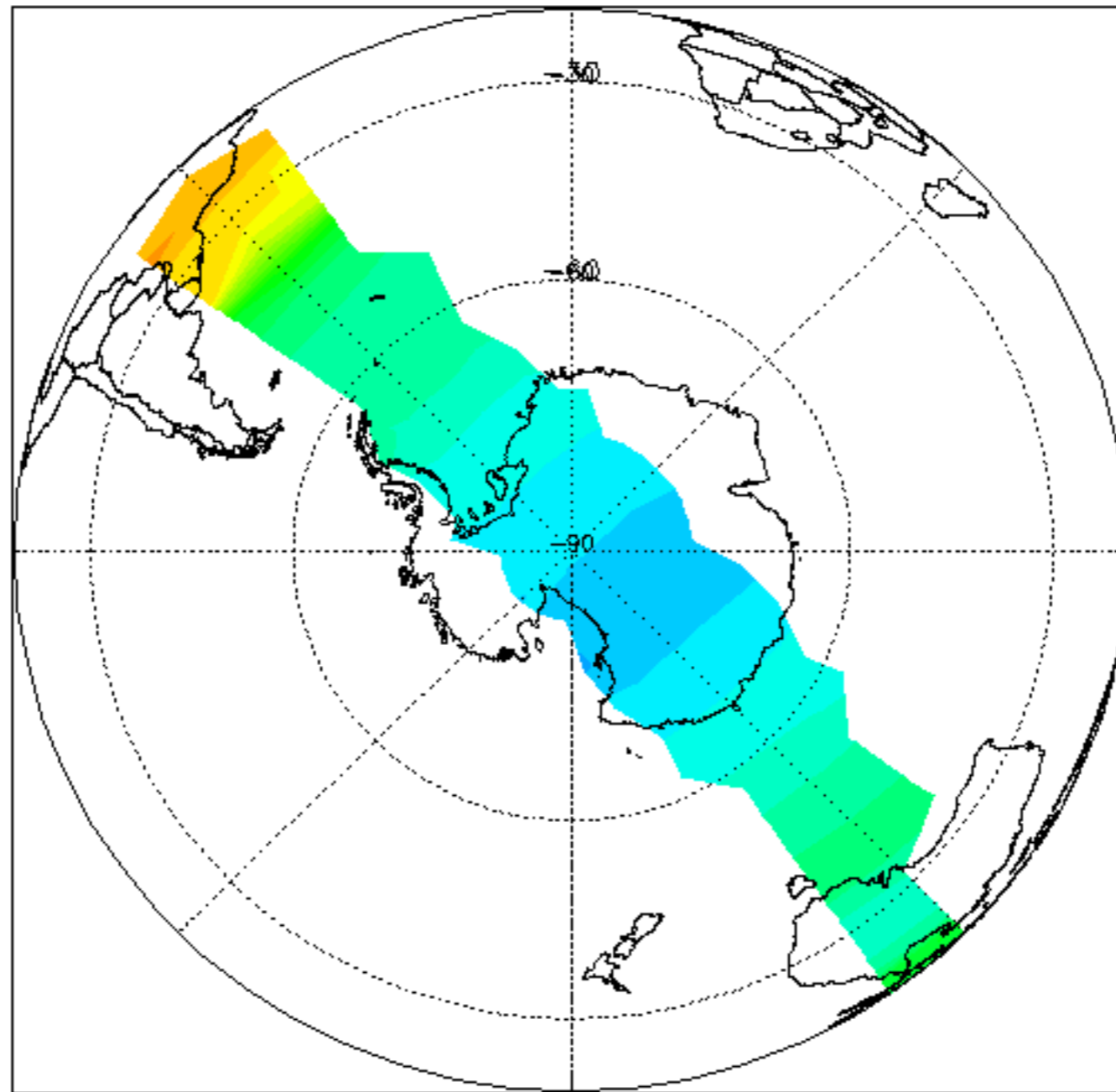
HNO<sub>3</sub> (ppb) at: 490 K (19km, 55hPa). Daily mean: 28-FEB-2012



CH<sub>4</sub> (ppm) at: 490 K (19km, 55hPa). Daily mean: 28-FEB-2012

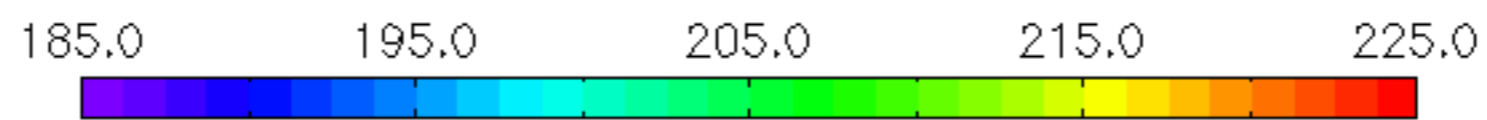
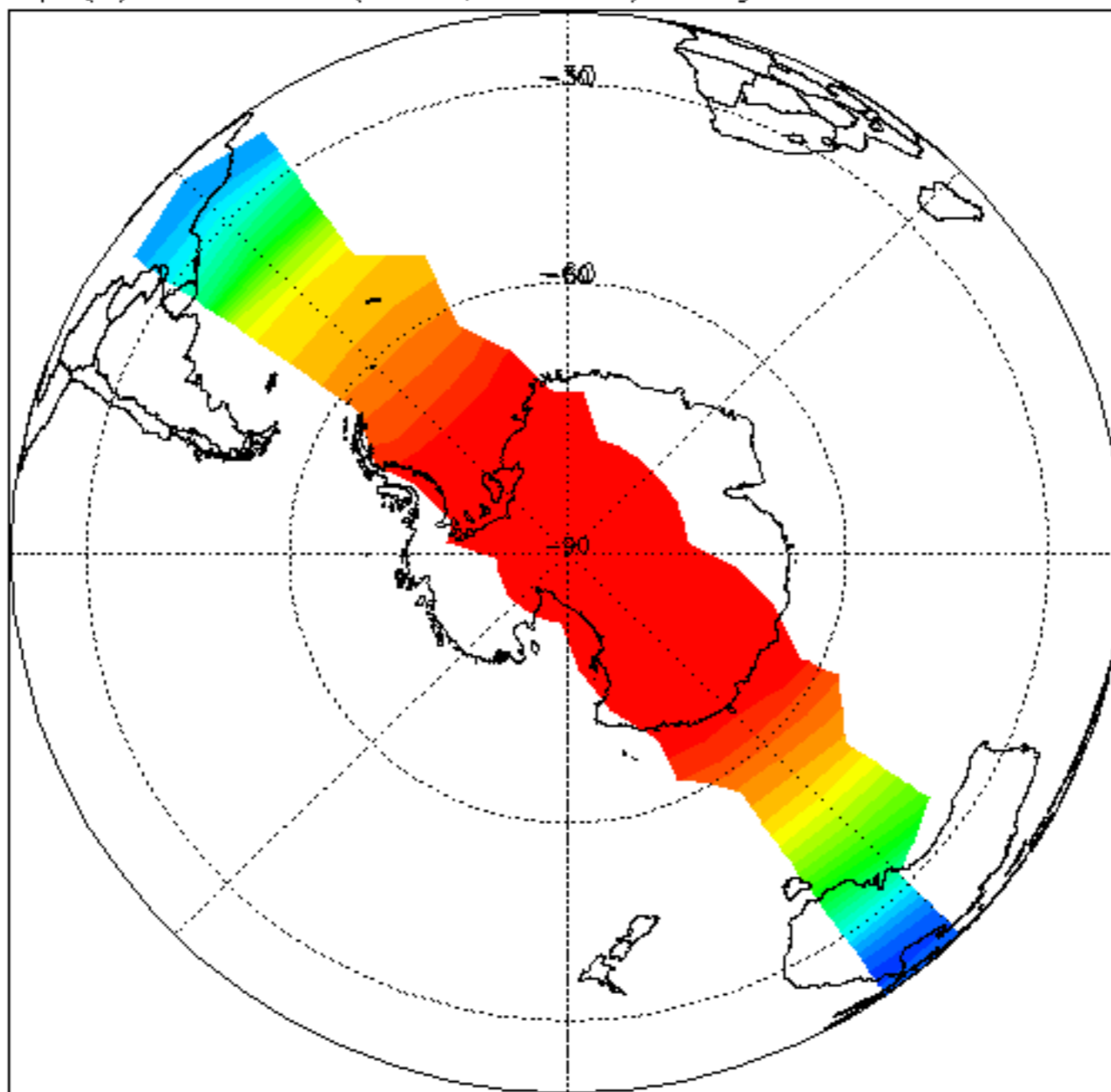


N<sub>2</sub>O (ppb) at: 490 K (19km, 55hPa). Daily mean: 28-FEB-2012

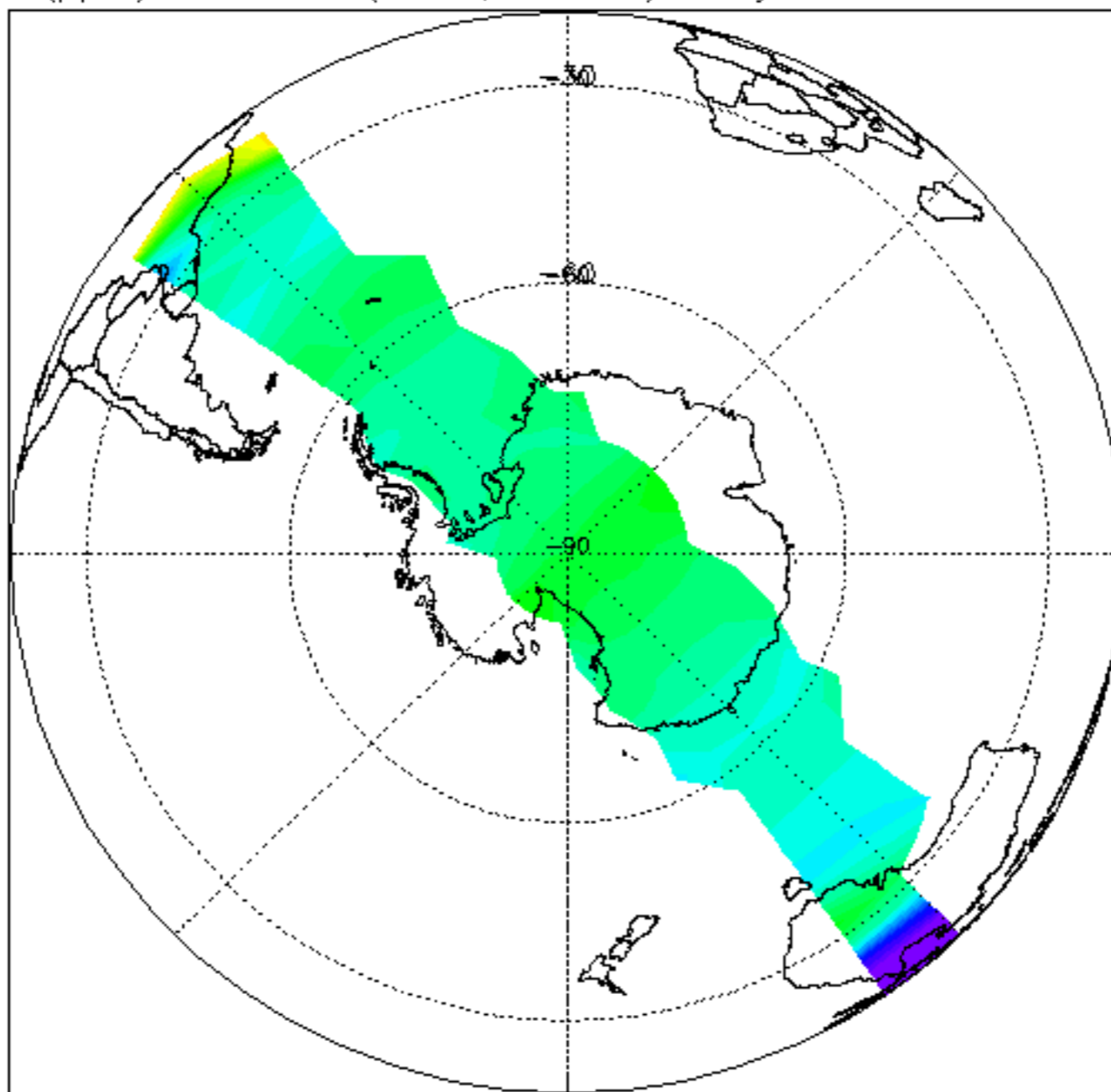




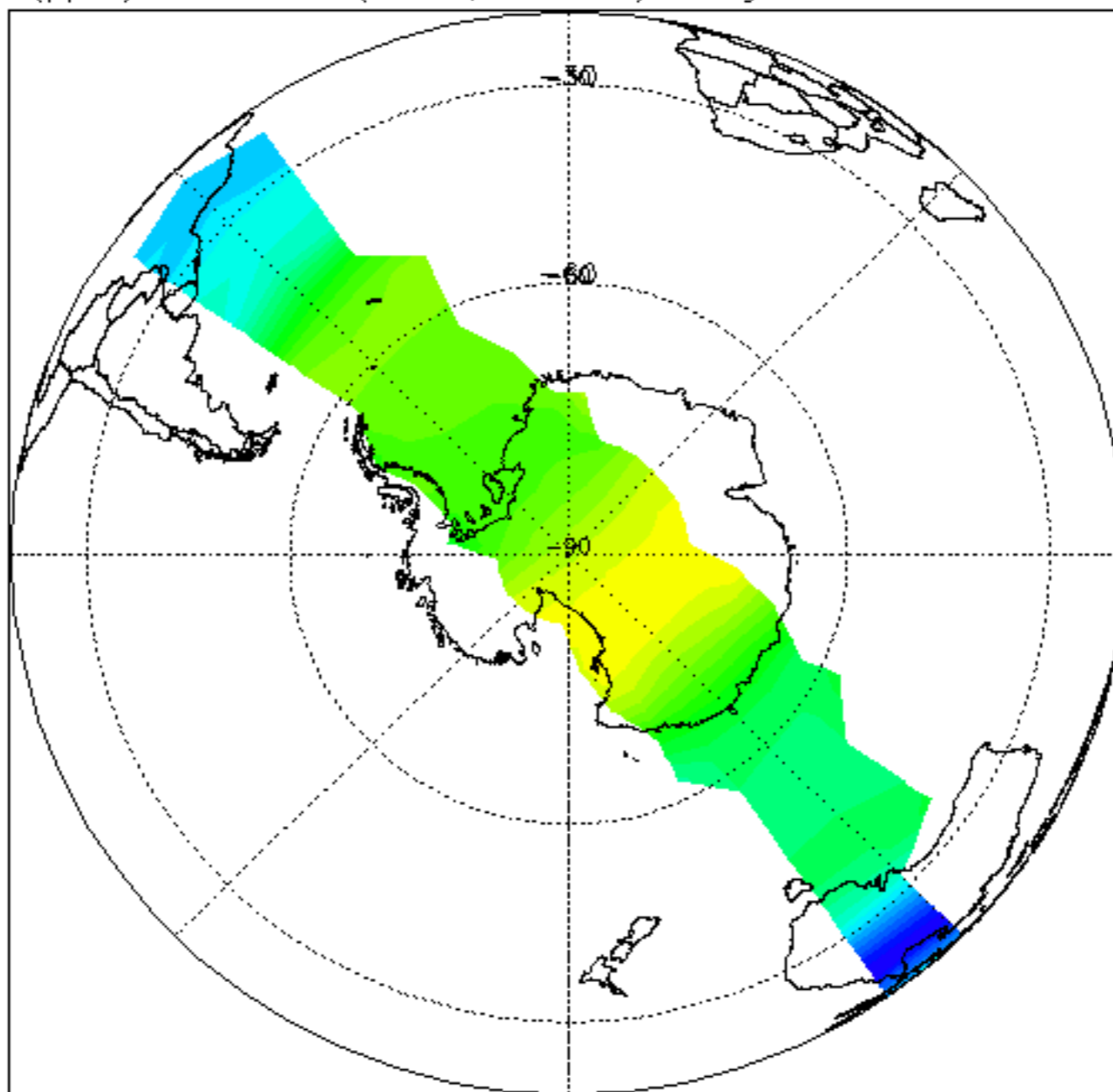
Temp (K) at: 410 K (16km, 100hPa). Daily mean: 28-FEB-2012



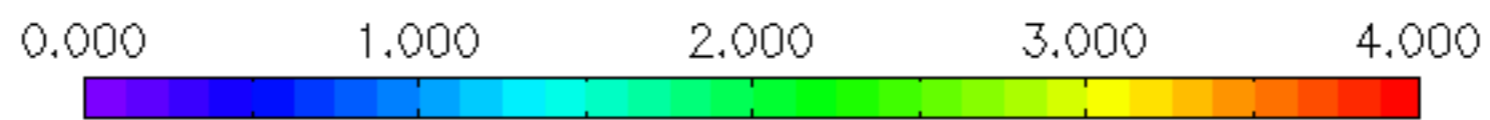
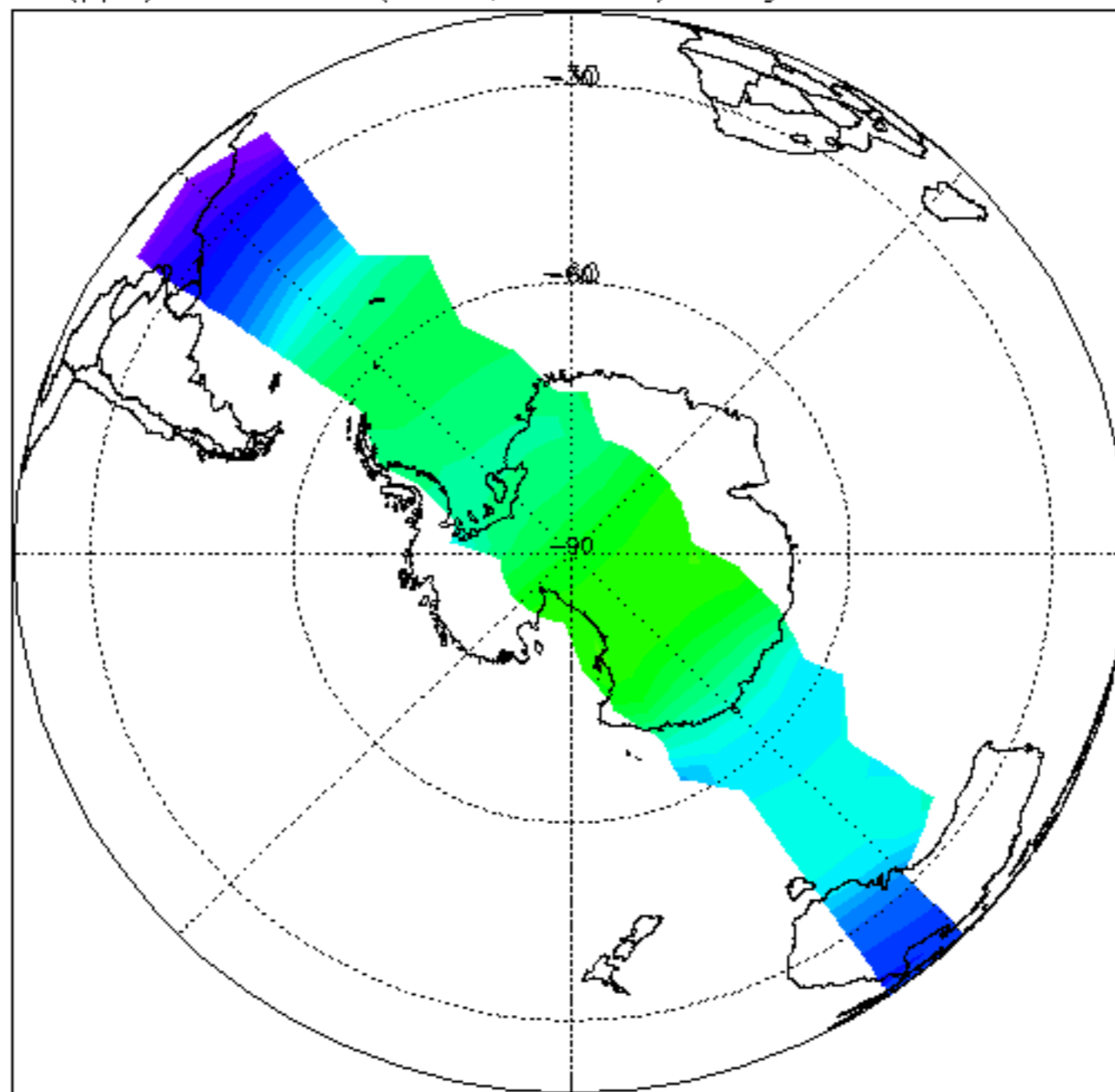
H<sub>2</sub>O (ppm) at: 410 K (16km, 100hPa). Daily mean: 28-FEB-2012



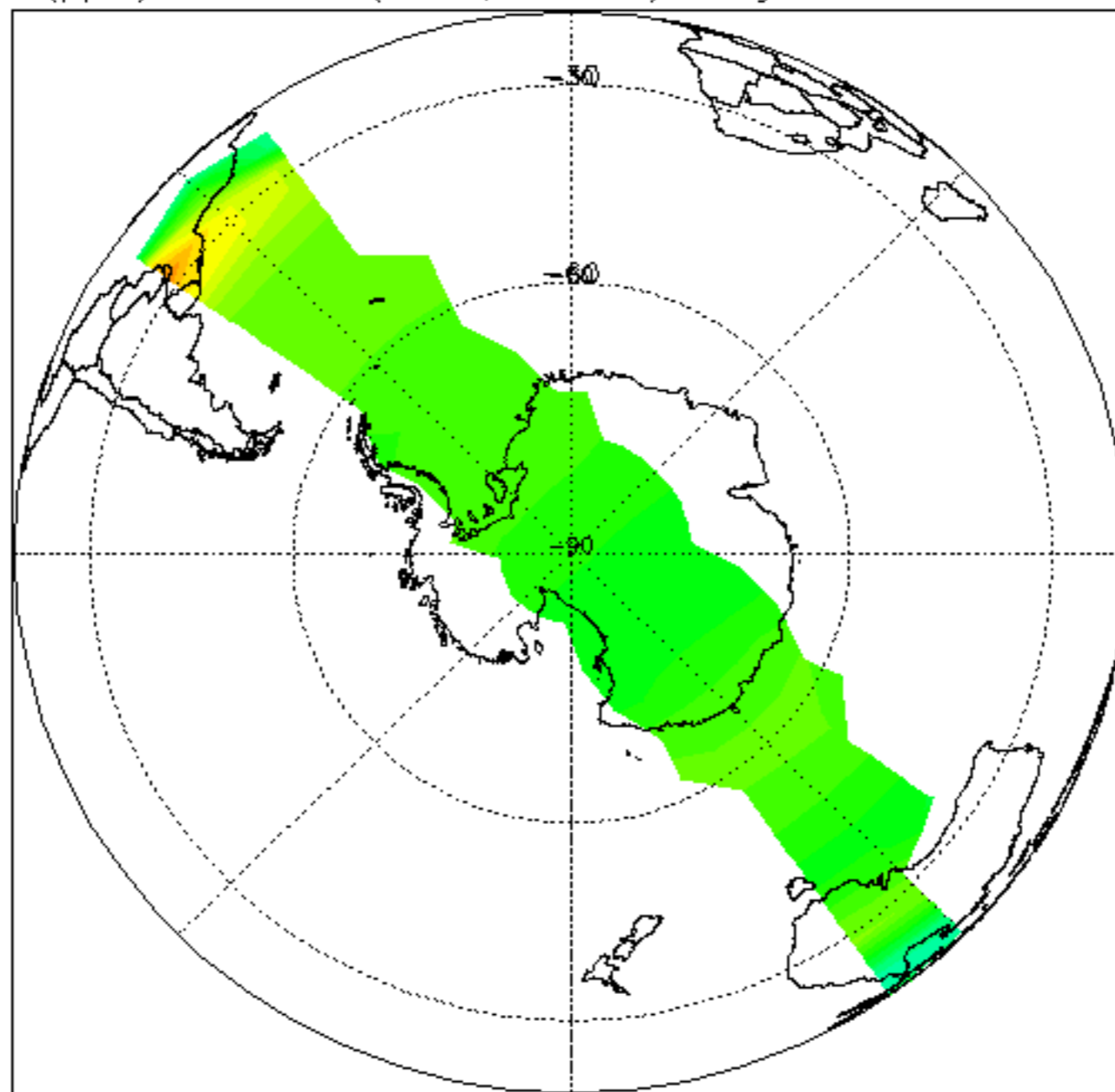
O<sub>3</sub> (ppm) at: 410 K (16km, 100hPa). Daily mean: 28-FEB-2012



HN03 (ppb) at: 410 K (16km, 100hPa). Daily mean: 28-FEB-2012



CH<sub>4</sub> (ppm) at: 410 K (16km, 100hPa). Daily mean: 28-FEB-2012



N<sub>2</sub>O (ppb) at: 410 K (16km, 100hPa). Daily mean: 28-FEB-2012

