

MIPAS maps of mean distribution: 03-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.

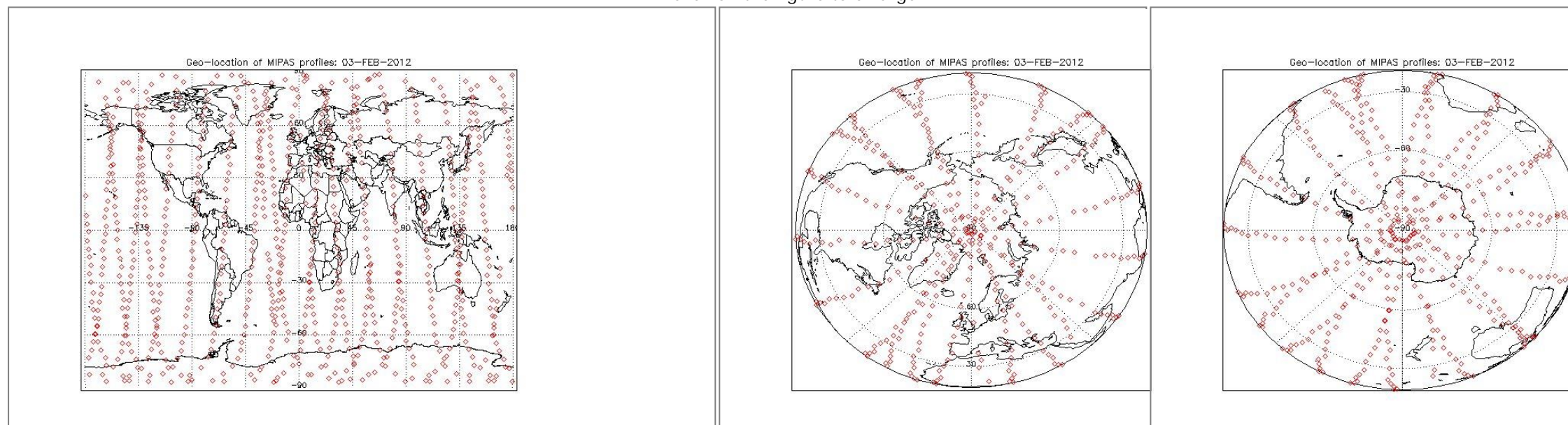
Note that Upper and Middle Atmosphere measurements are only retrieved up to 70km.

Total Number of profiles: 826

| Retrieved Parameter | Profiles not reaching convergence (%) | Profiles exceeding chi2 threshold (%) |
|---------------------|---------------------------------------|---------------------------------------|
| p-T | 0.48 | 1.94 |
| H2O | 0.61 | 0.12 |
| O3 | 0.48 | 0.12 |
| HNO3 | 99.03 | 0.12 |
| CH4 | 0.61 | 0.12 |
| N2O | 1.21 | 0.12 |
| NO2 | 1.33 | 30.63 |

Geo-location of MIPAS profiles

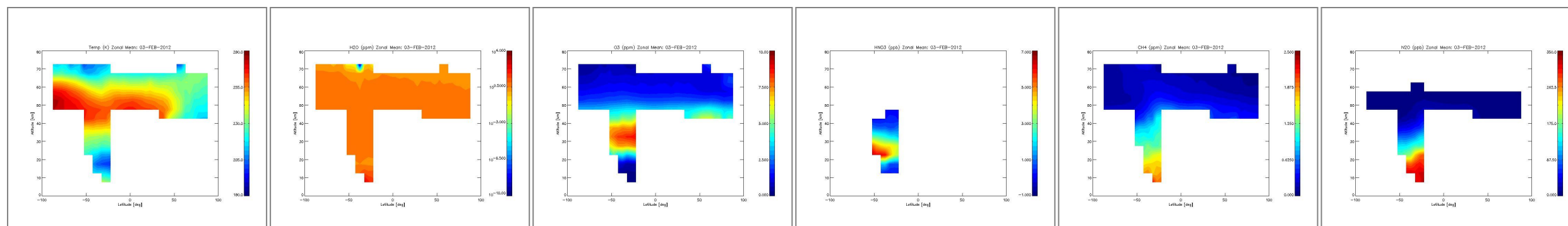
Click on the figure to enlarge



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

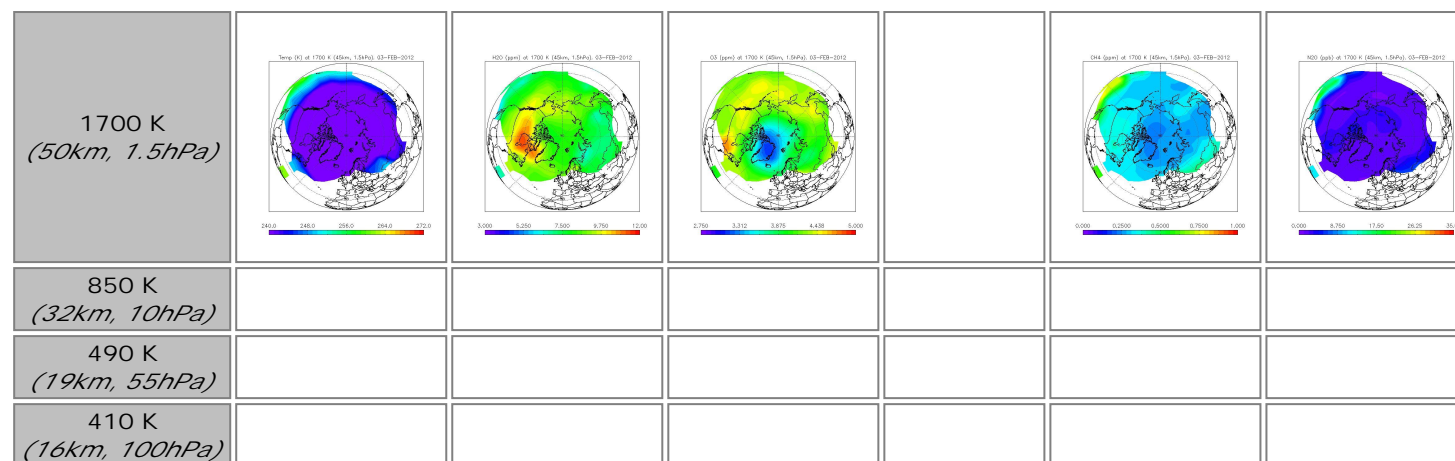
| | Temp (K) | H2O (ppm) | O3 (ppm) | HNO3 (ppb) | CH4 (ppm) | N2O (ppb) |
|--------------------------|----------|-----------|----------|------------|-----------|-----------|
| 2700 K (60km, 0.2hPa) | | | | | | |
| 1700 K (50km, 1.5hPa) | | | | | | |
| 850 K (32km, 10hPa) | | | | | | |
| 490 K (19km,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

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Arctic distribution interpolated at different isentropic levels

Click on the figure to enlarge

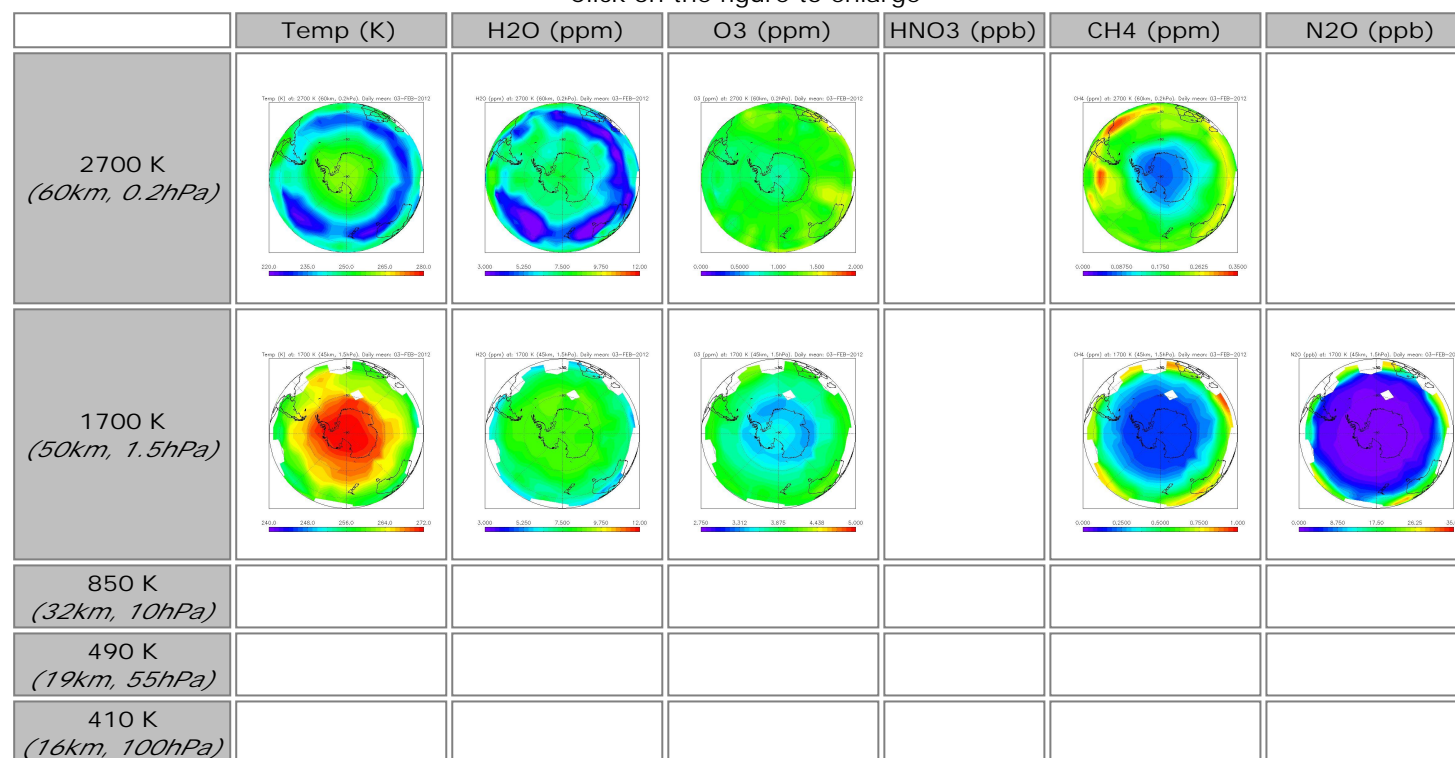
| | Temp (K) | H2O (ppm) | O3 (ppm) | HNO3 (ppb) | CH4 (ppm) | N2O (ppb) |
|--------------------------|----------|-----------|----------|------------|-----------|-----------|
| 2700 K (60km, 0.2hPa) | | | | | | |



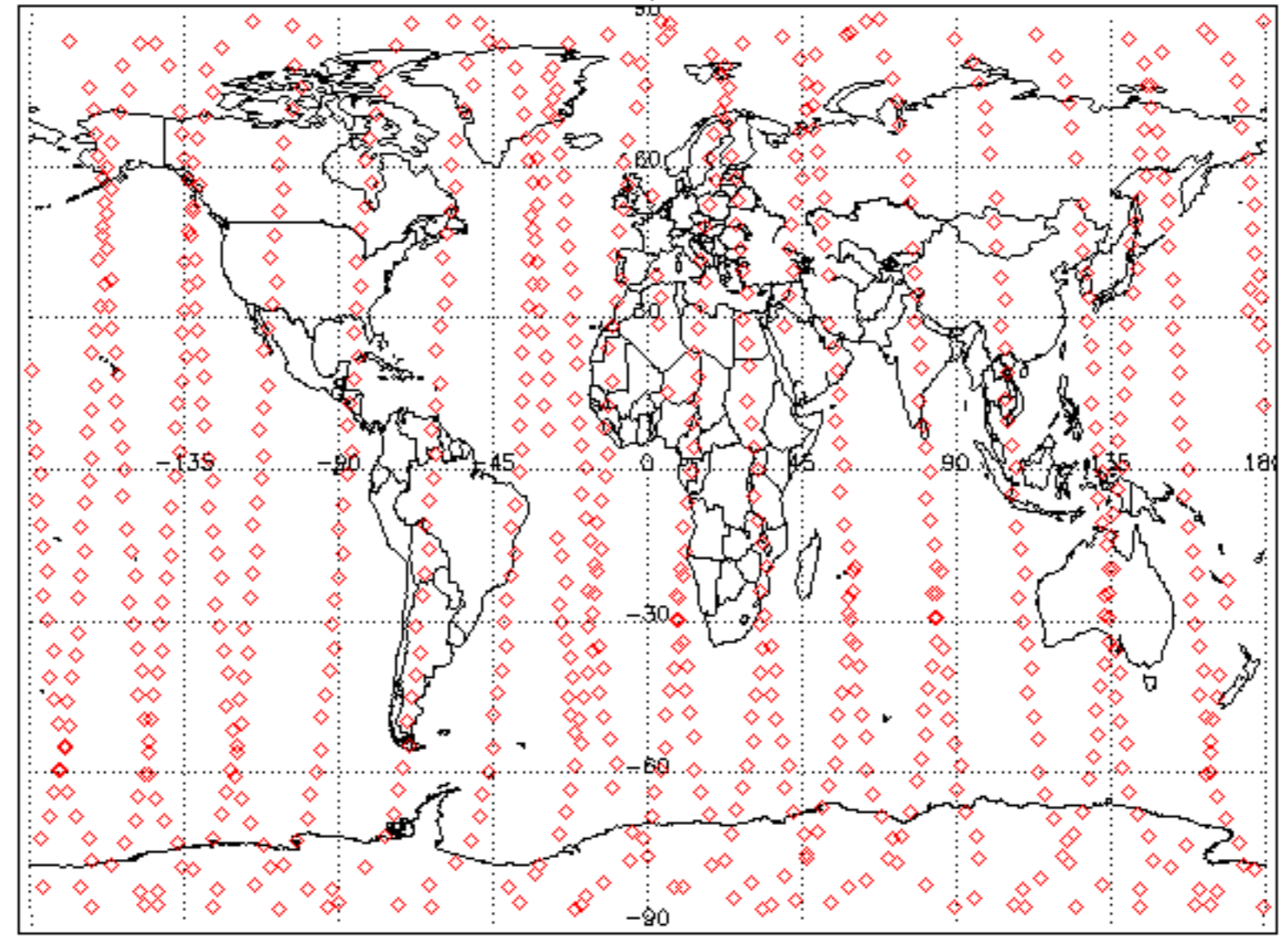
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Antarctic distribution interpolated at different isentropic levels

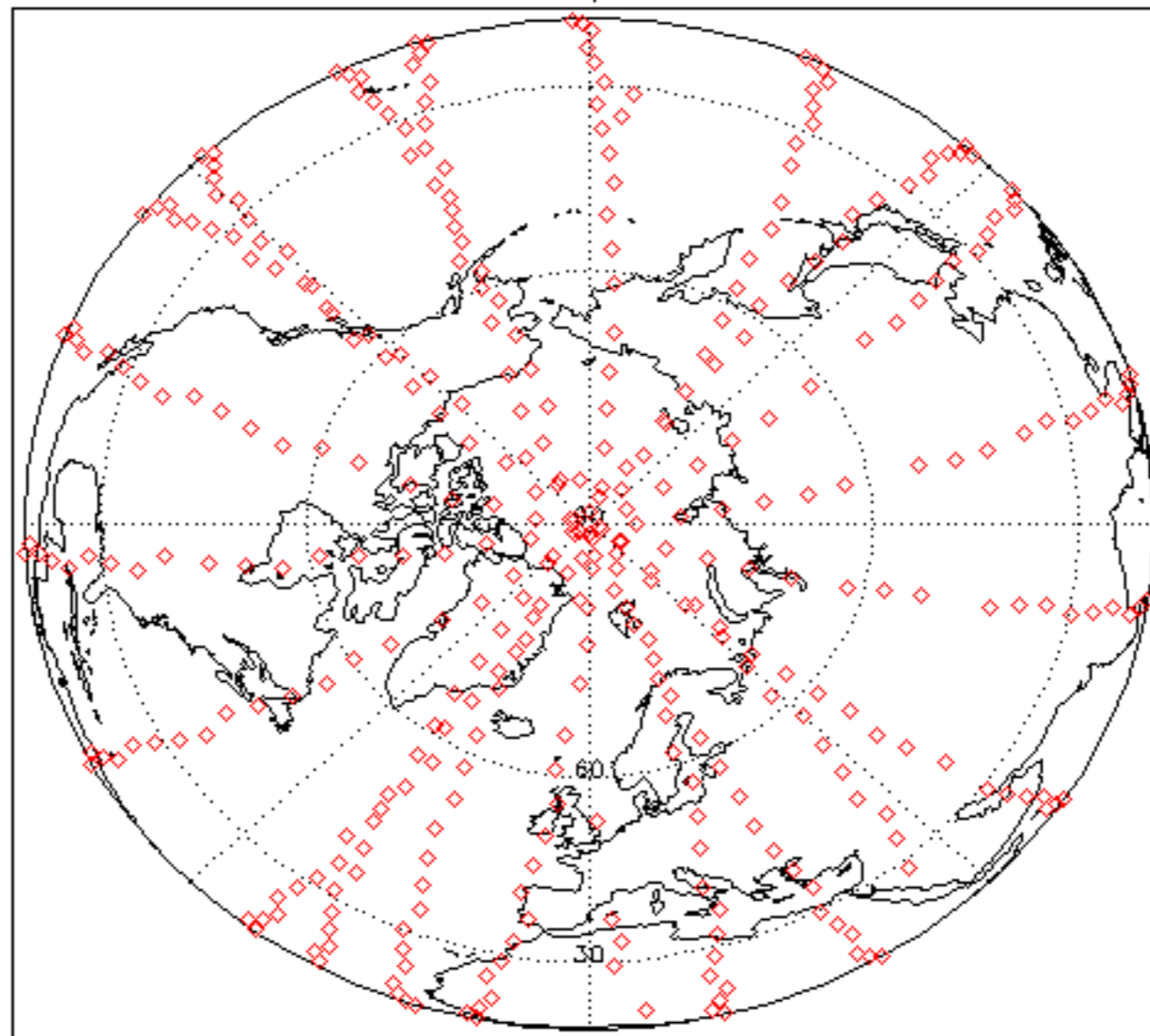
Click on the figure to enlarge



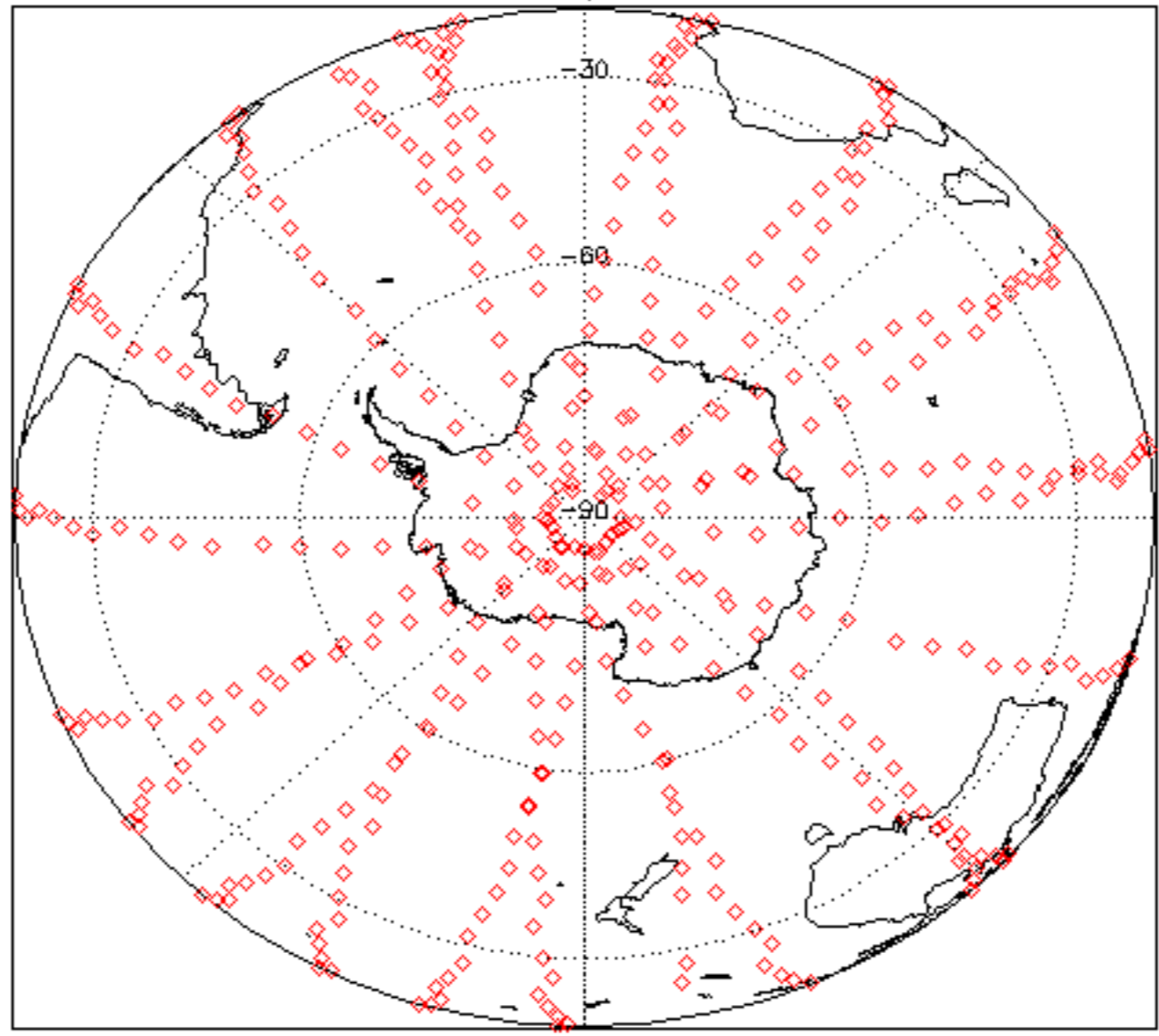
Geo-location of MIPAS profiles: 03-FEB-2012

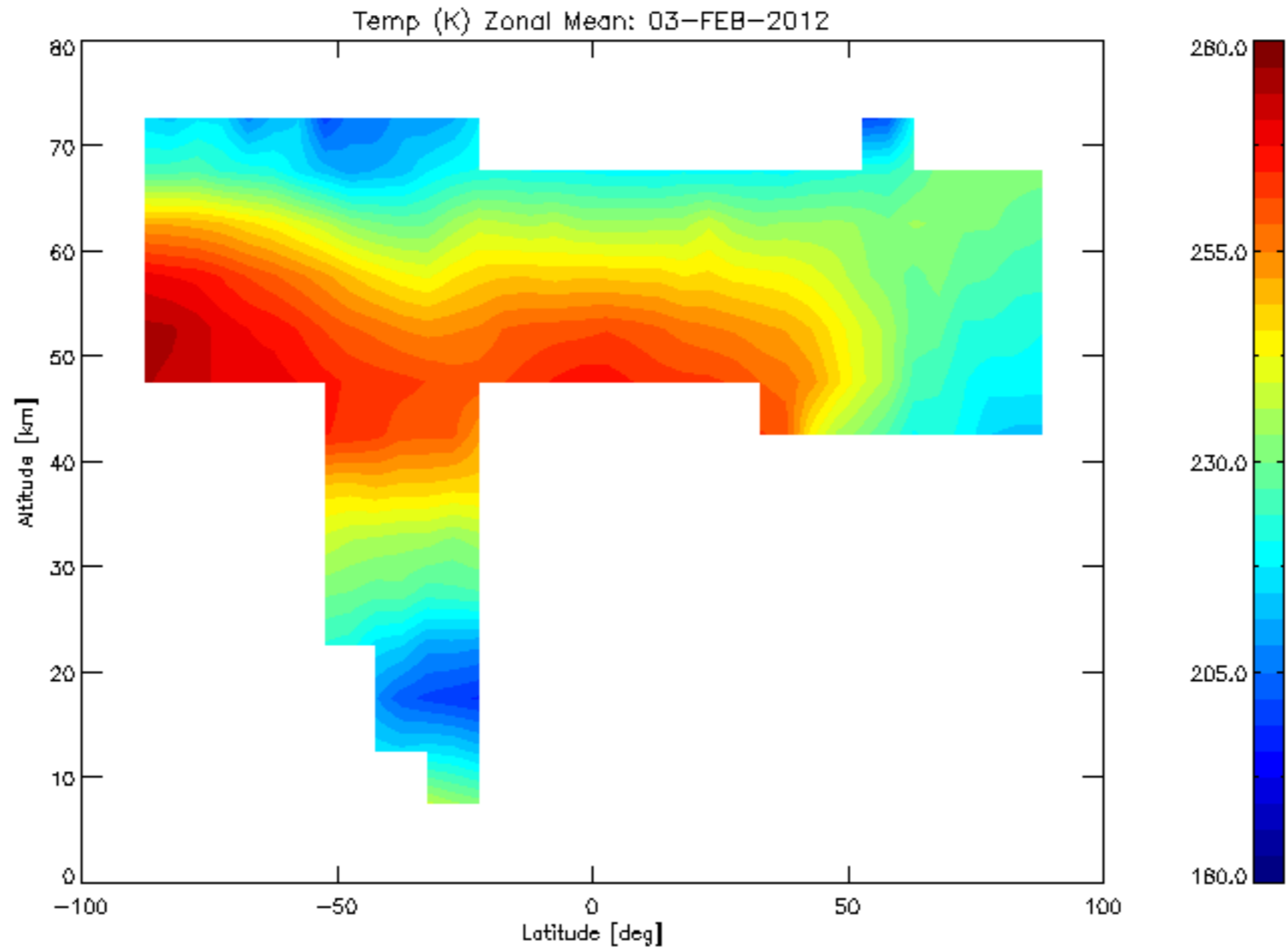


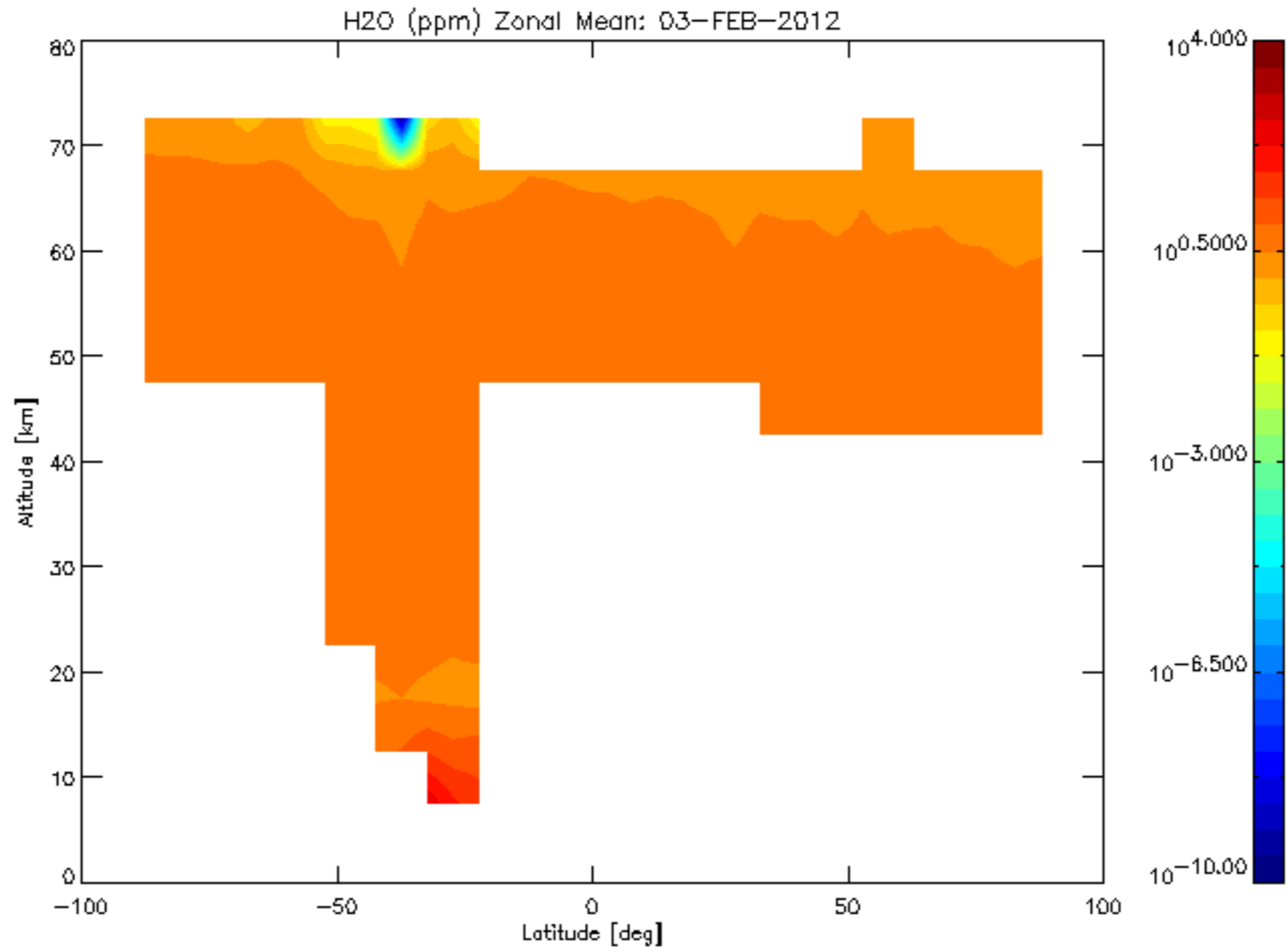
Geo-location of MIPAS profiles: 03-FEB-2012

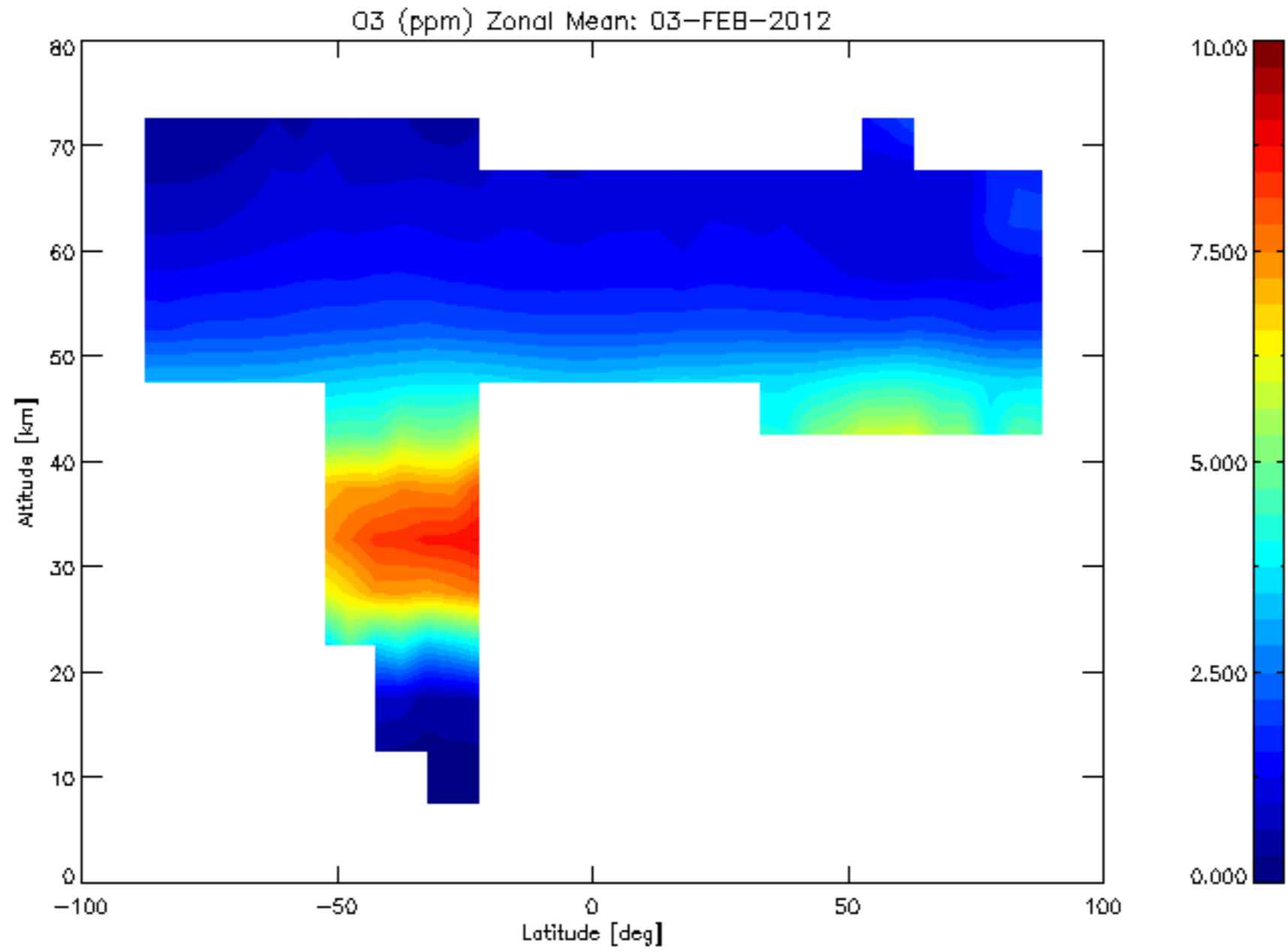


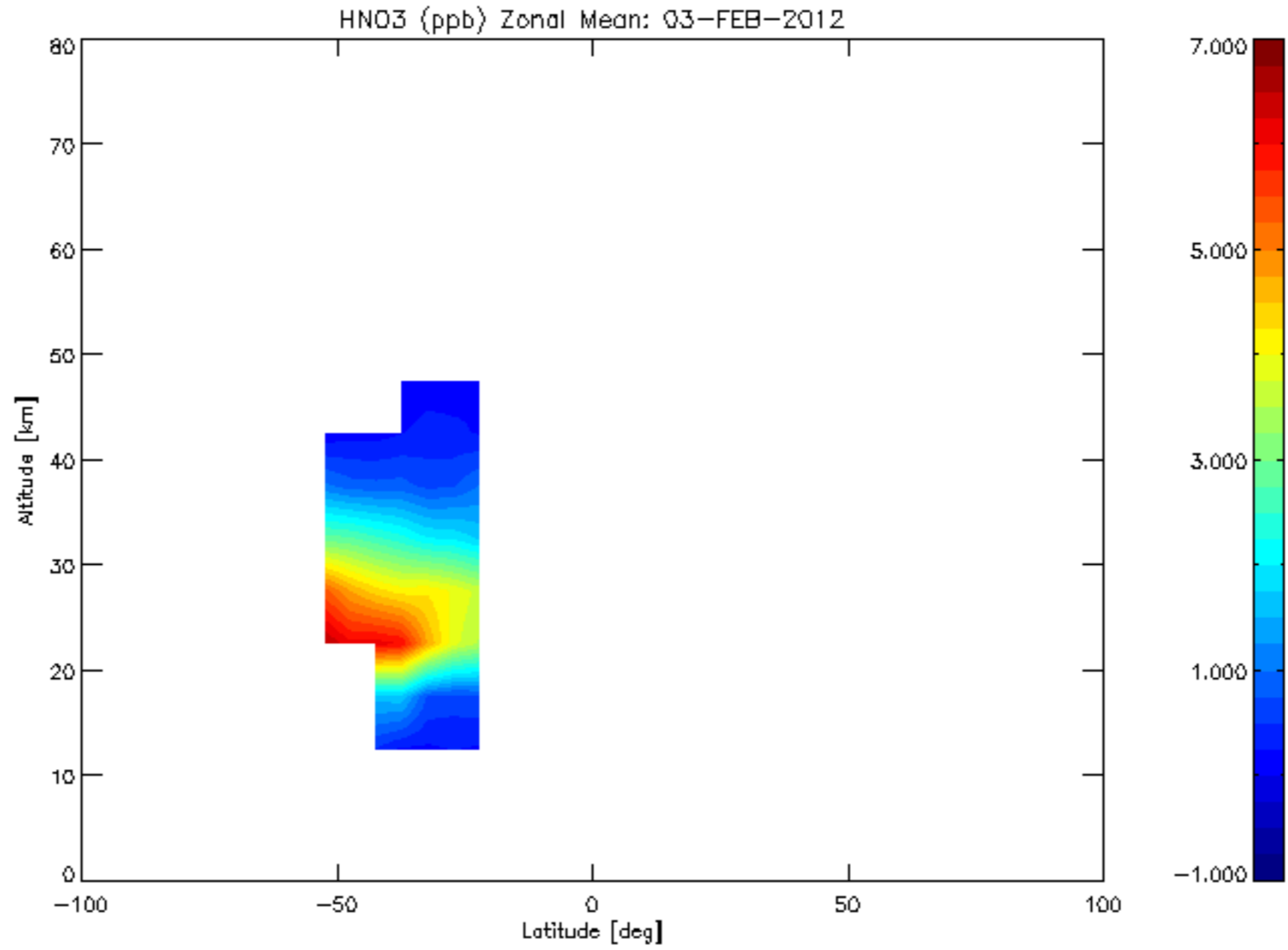
Geo-location of MIPAS profiles: 03-FEB-2012

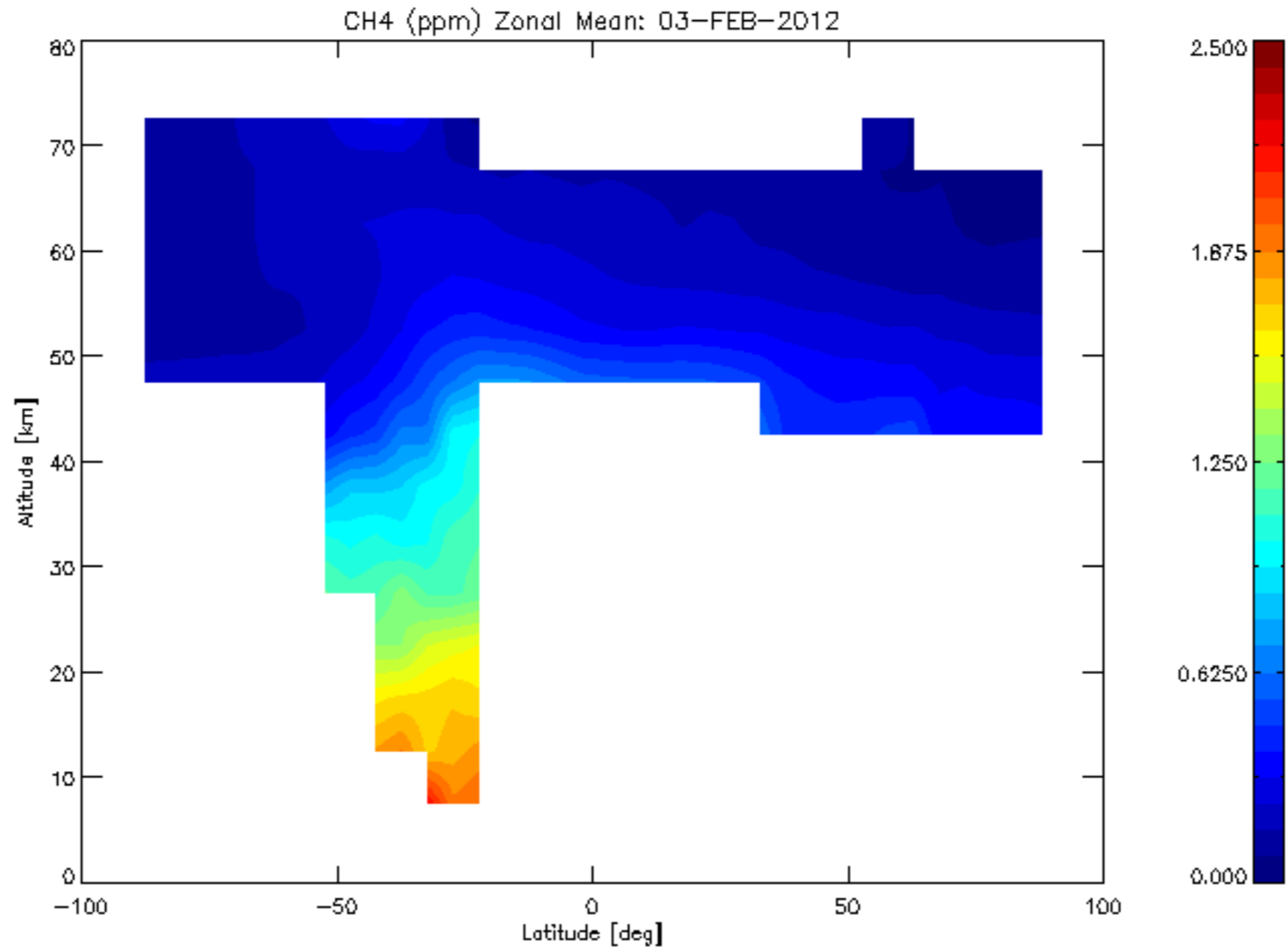


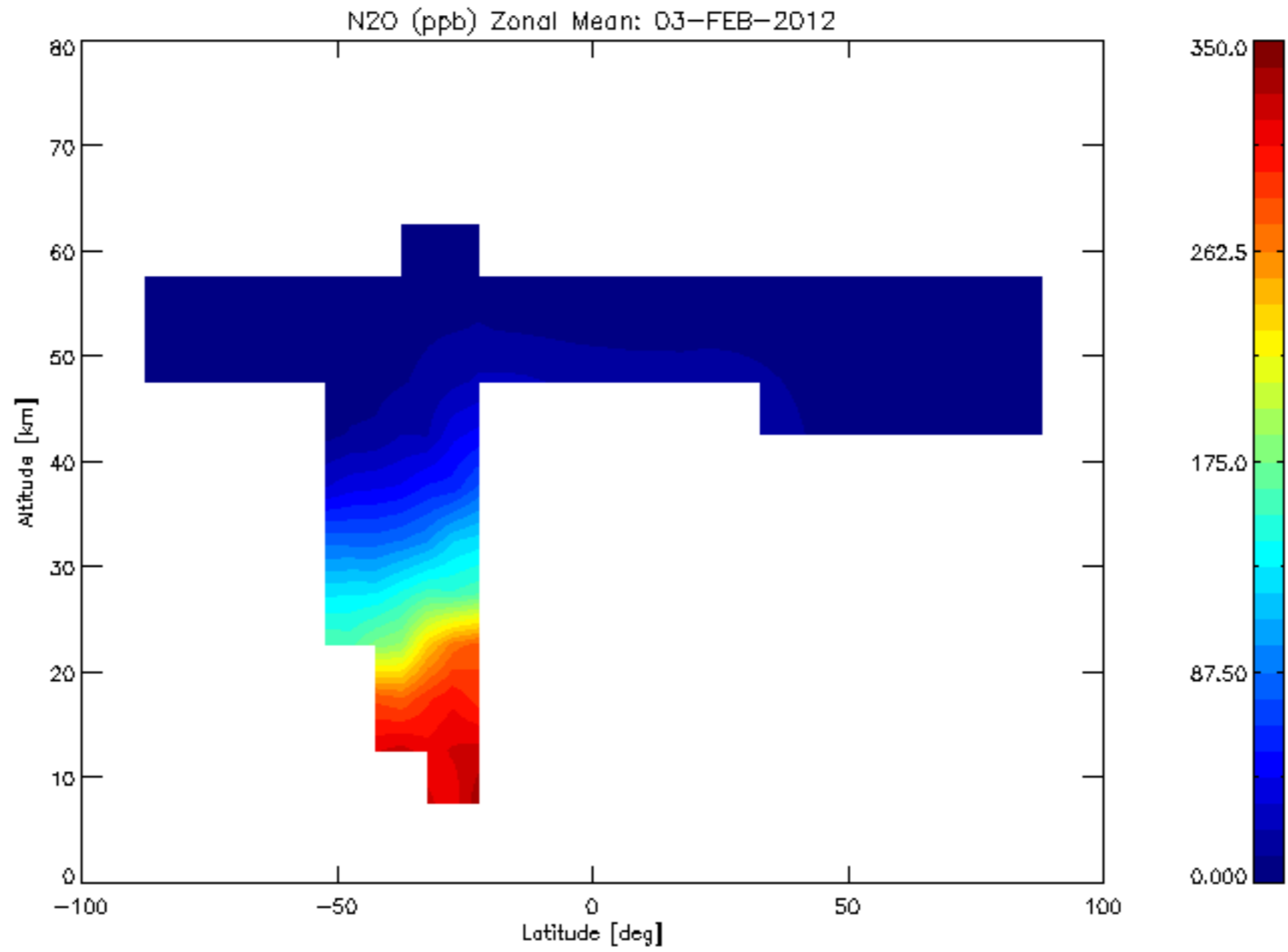




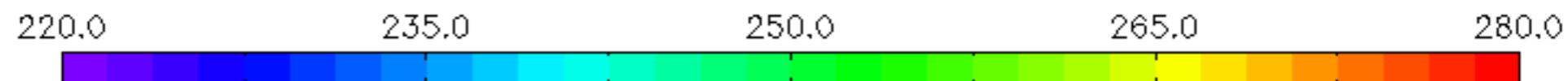
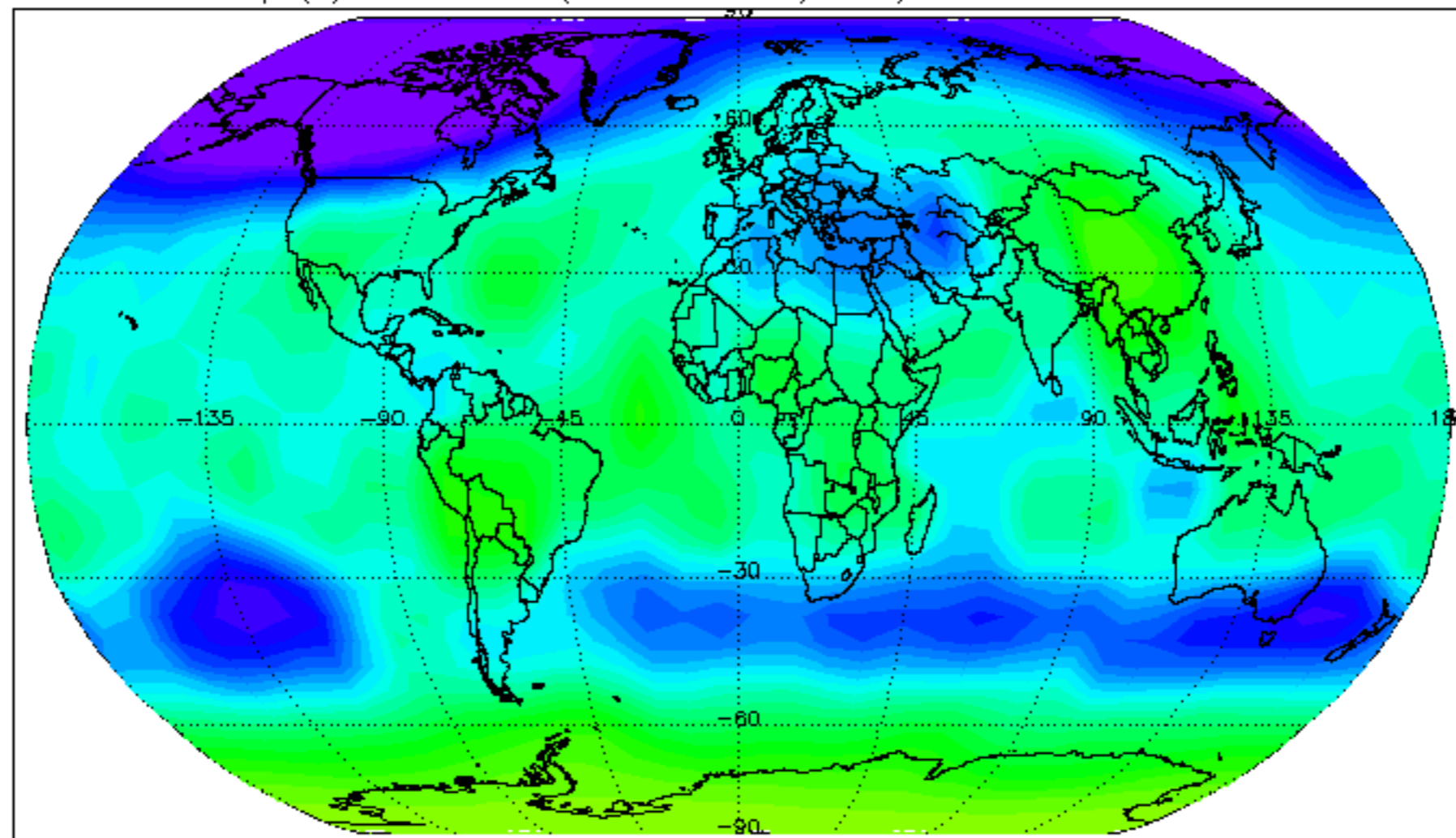




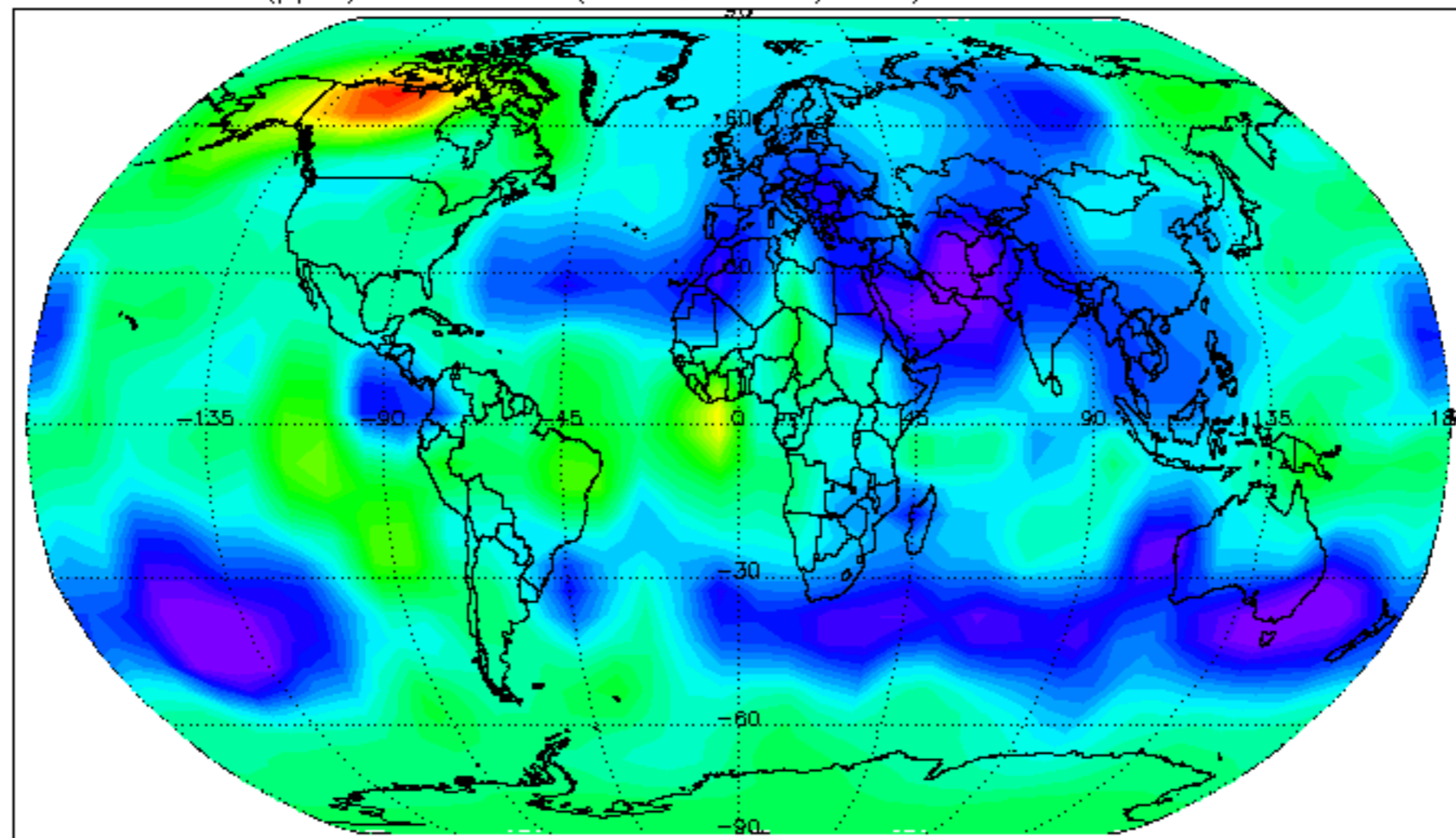




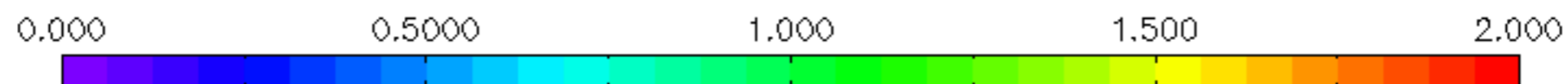
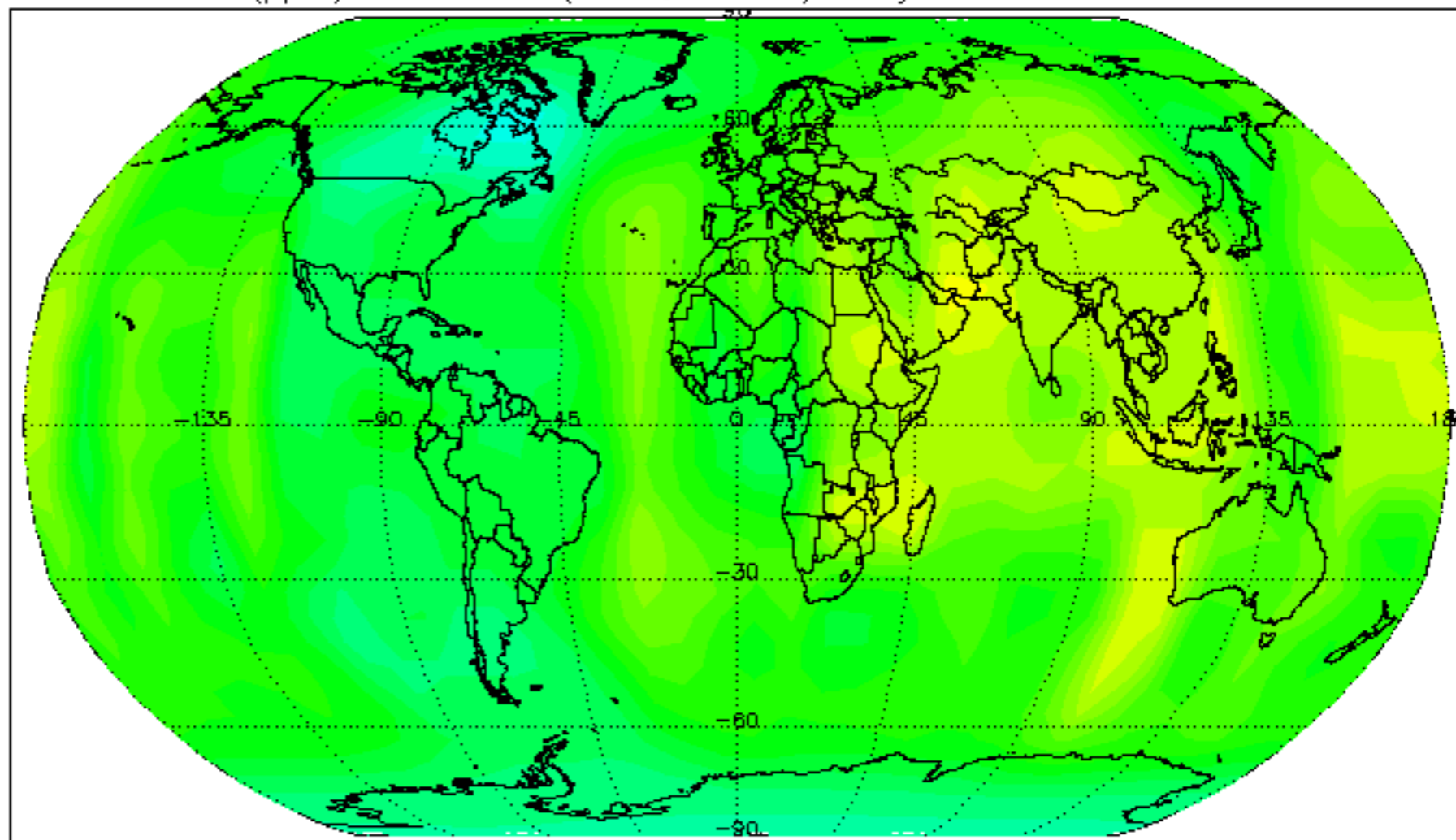
Temp (K) at: 2700 K (60km, 0.2hPa). Daily mean: 03-FEB-2012



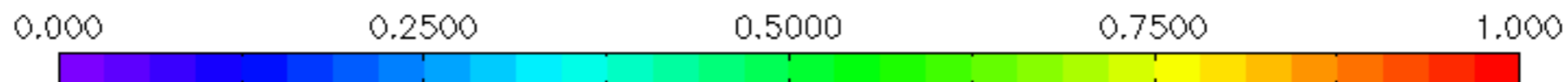
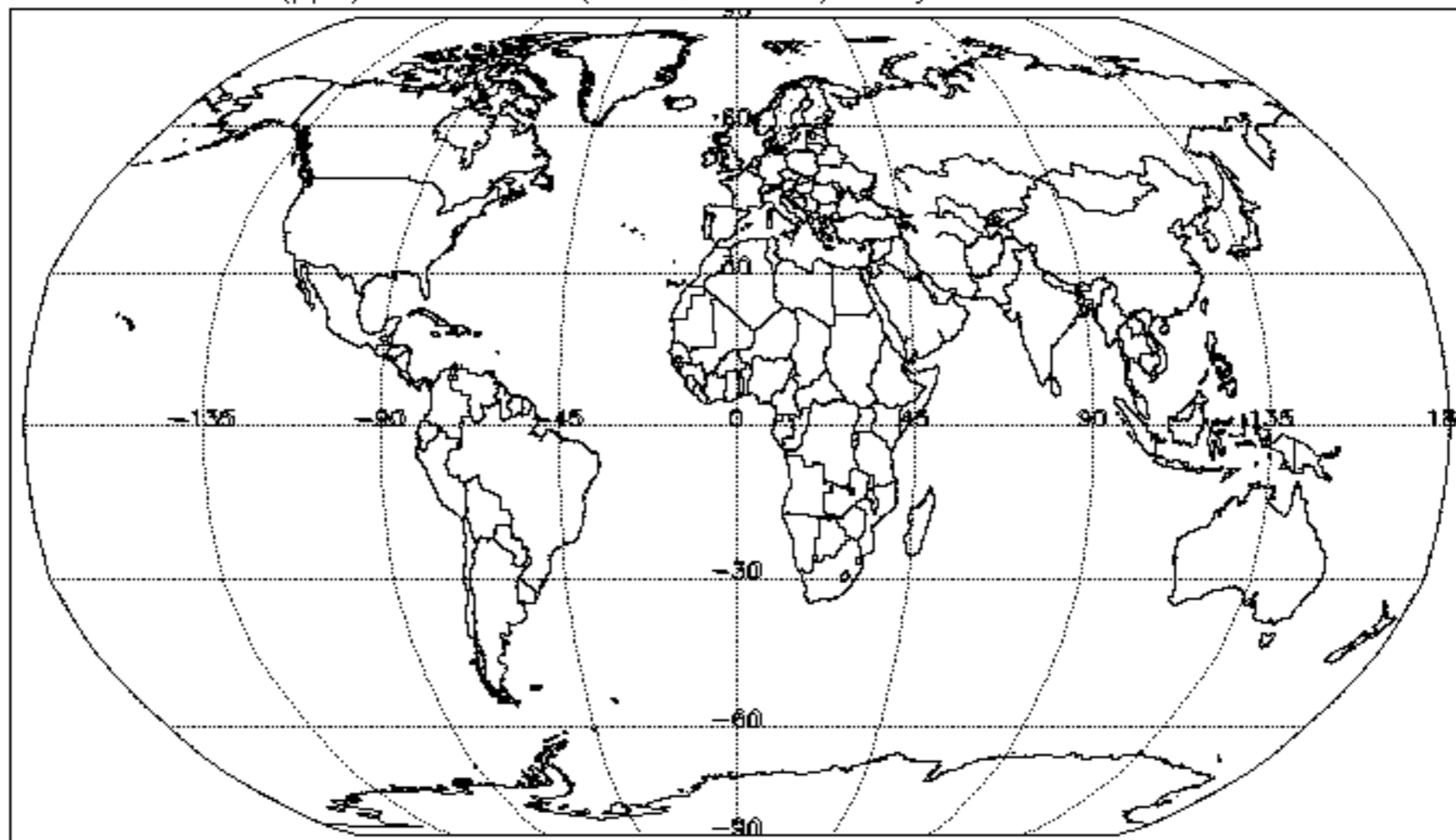
H₂O (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 03-FEB-2012



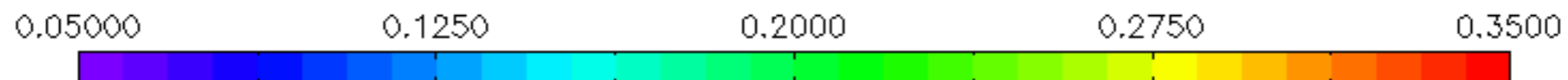
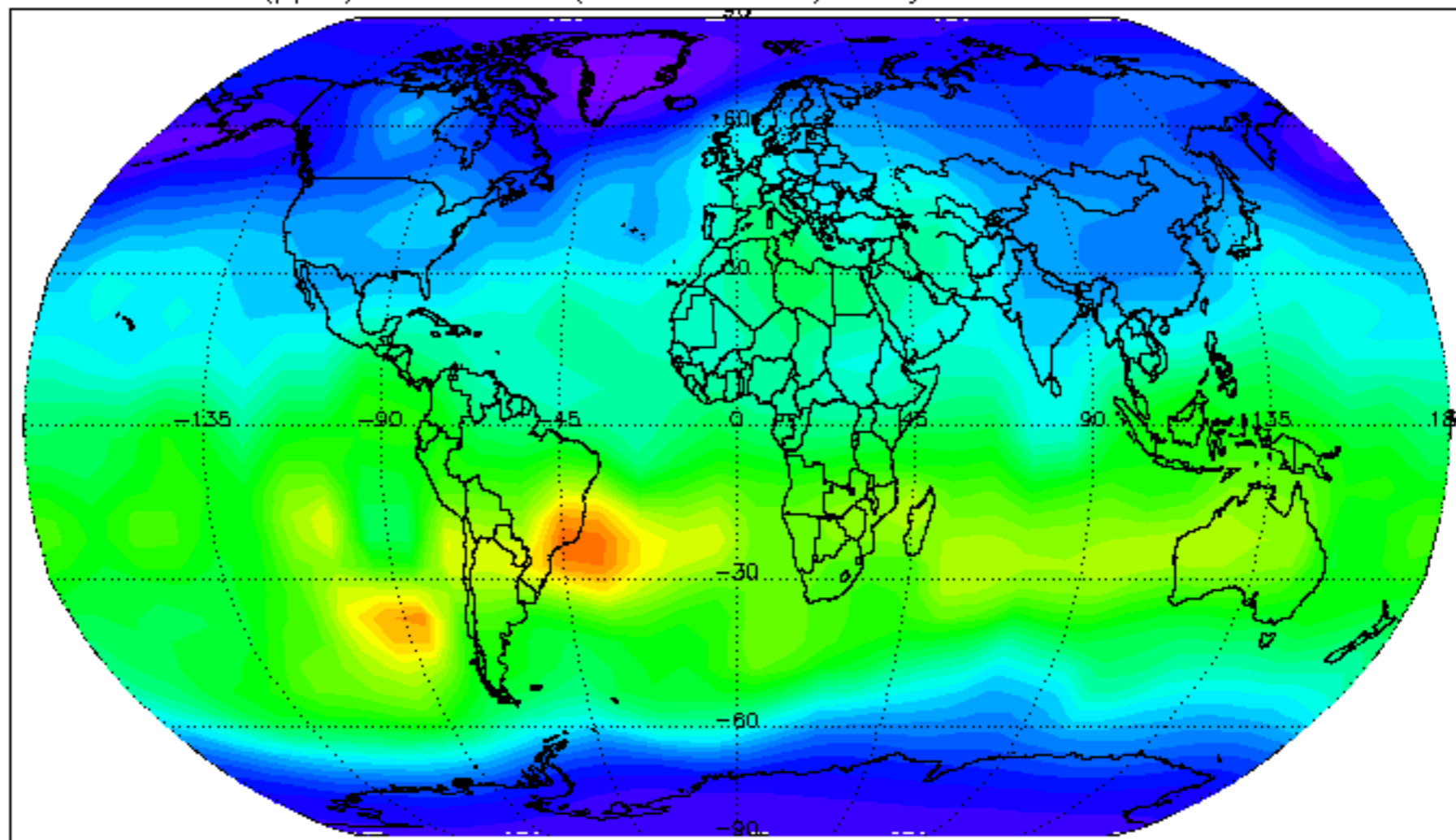
O3 (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 03-FEB-2012



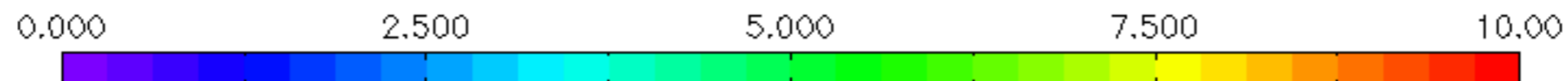
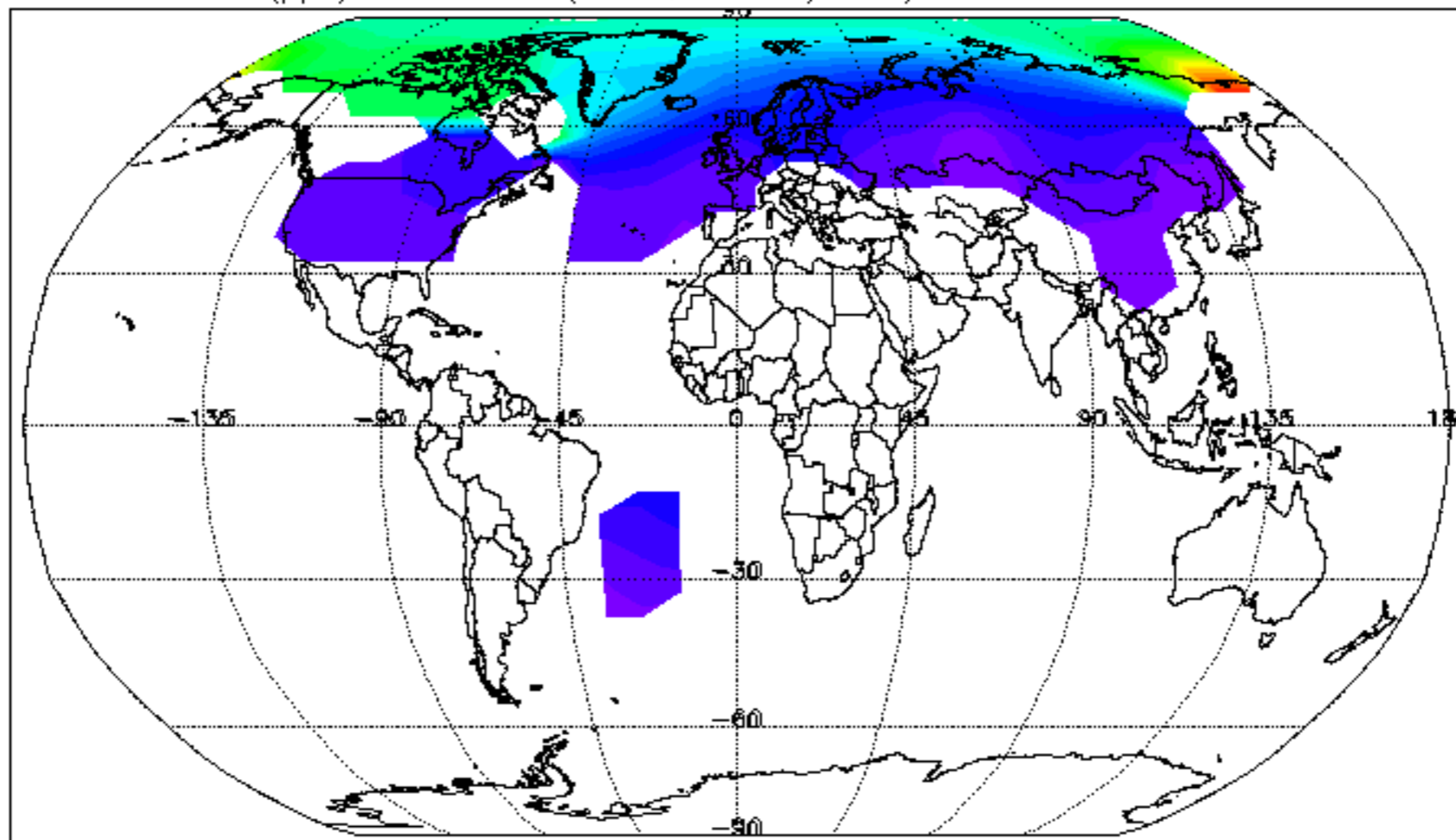
HNO₃ (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 03-FEB-2012



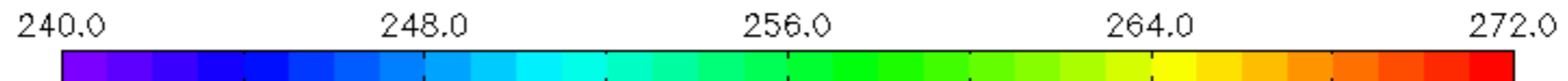
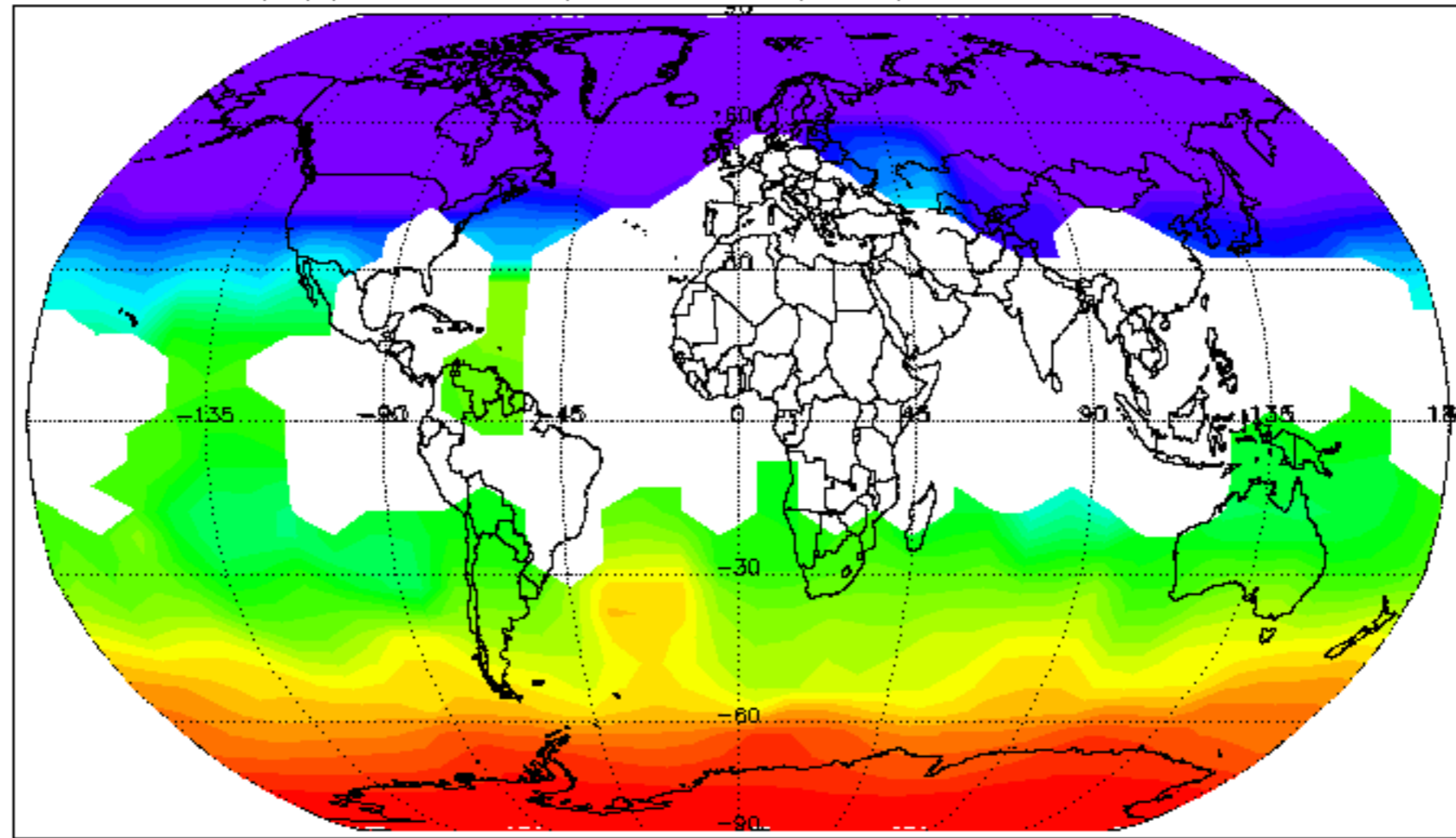
CH₄ (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 03-FEB-2012



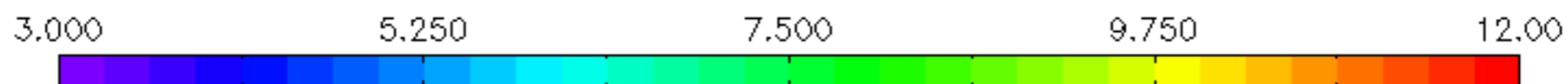
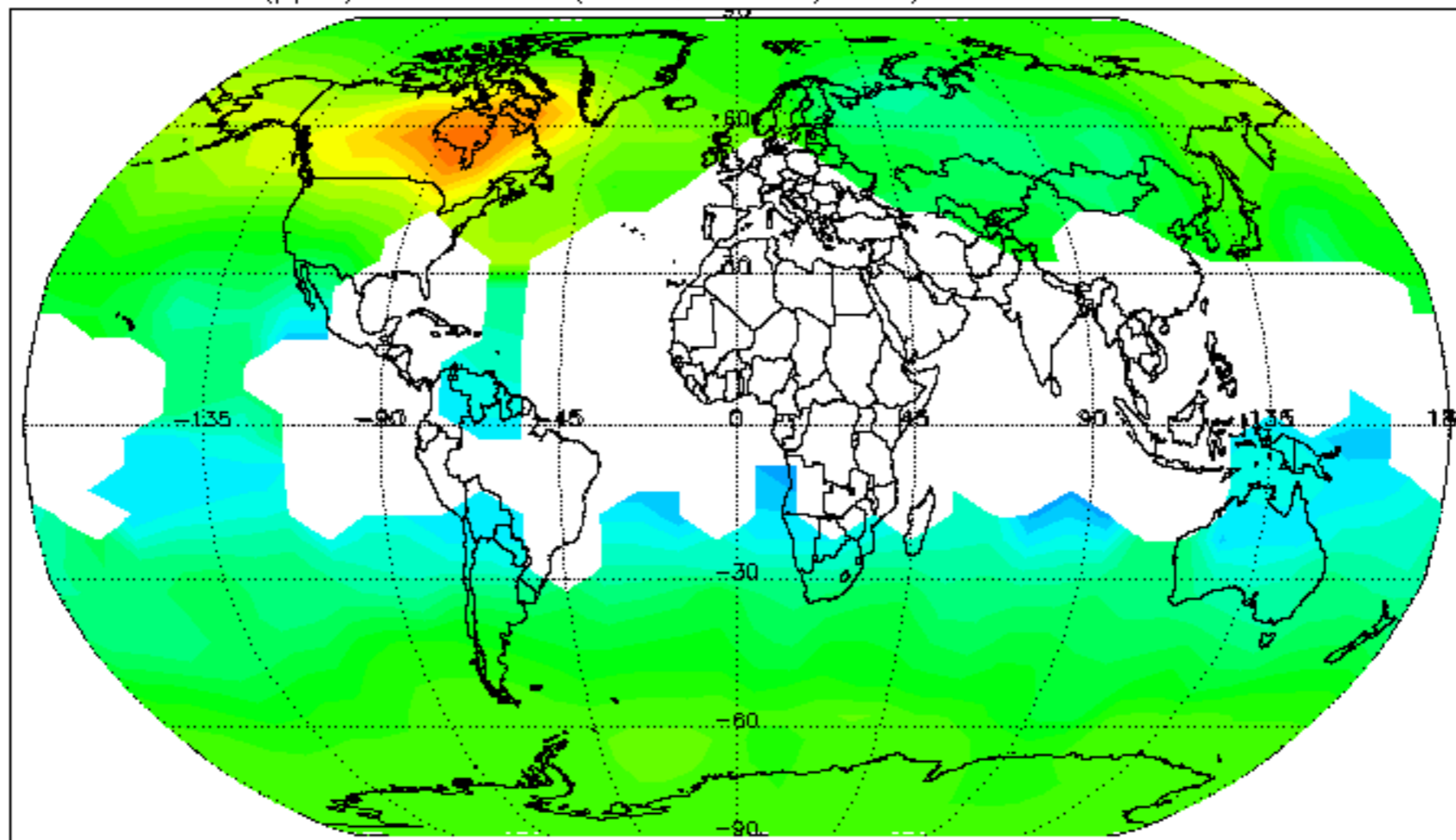
N₂O (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 03-FEB-2012



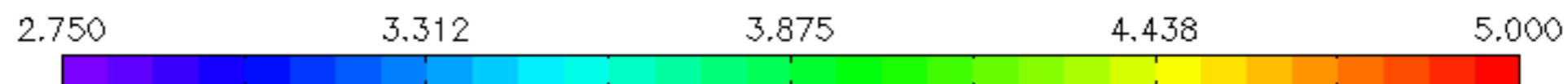
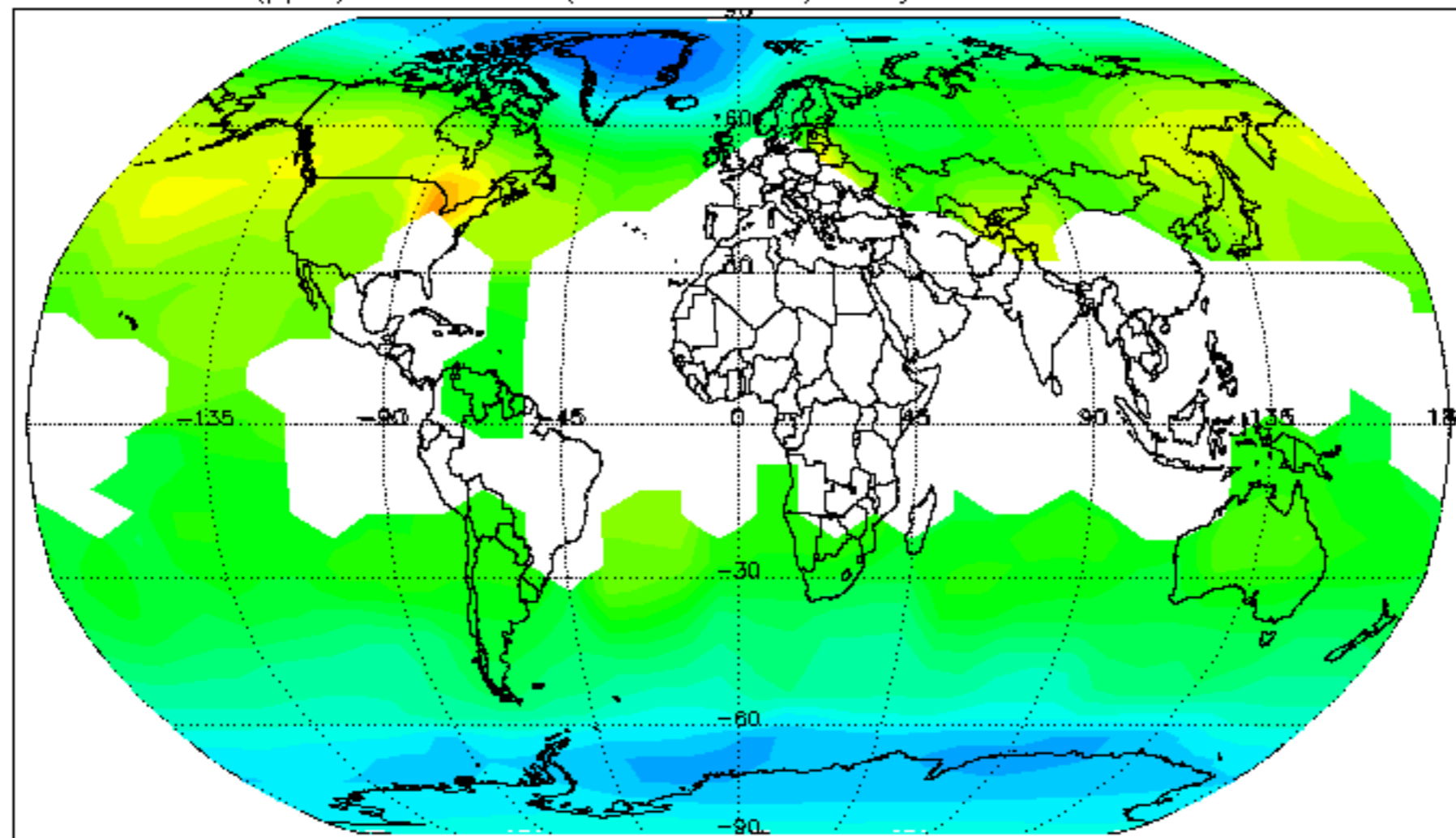
Temp (K) at: 1700 K (45km, 1.5hPa). Daily mean: 03-FEB-2012



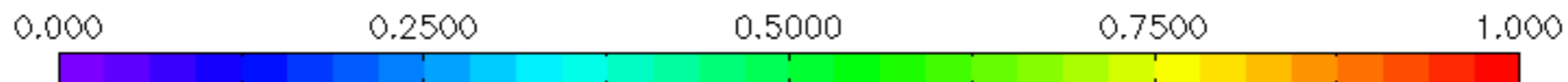
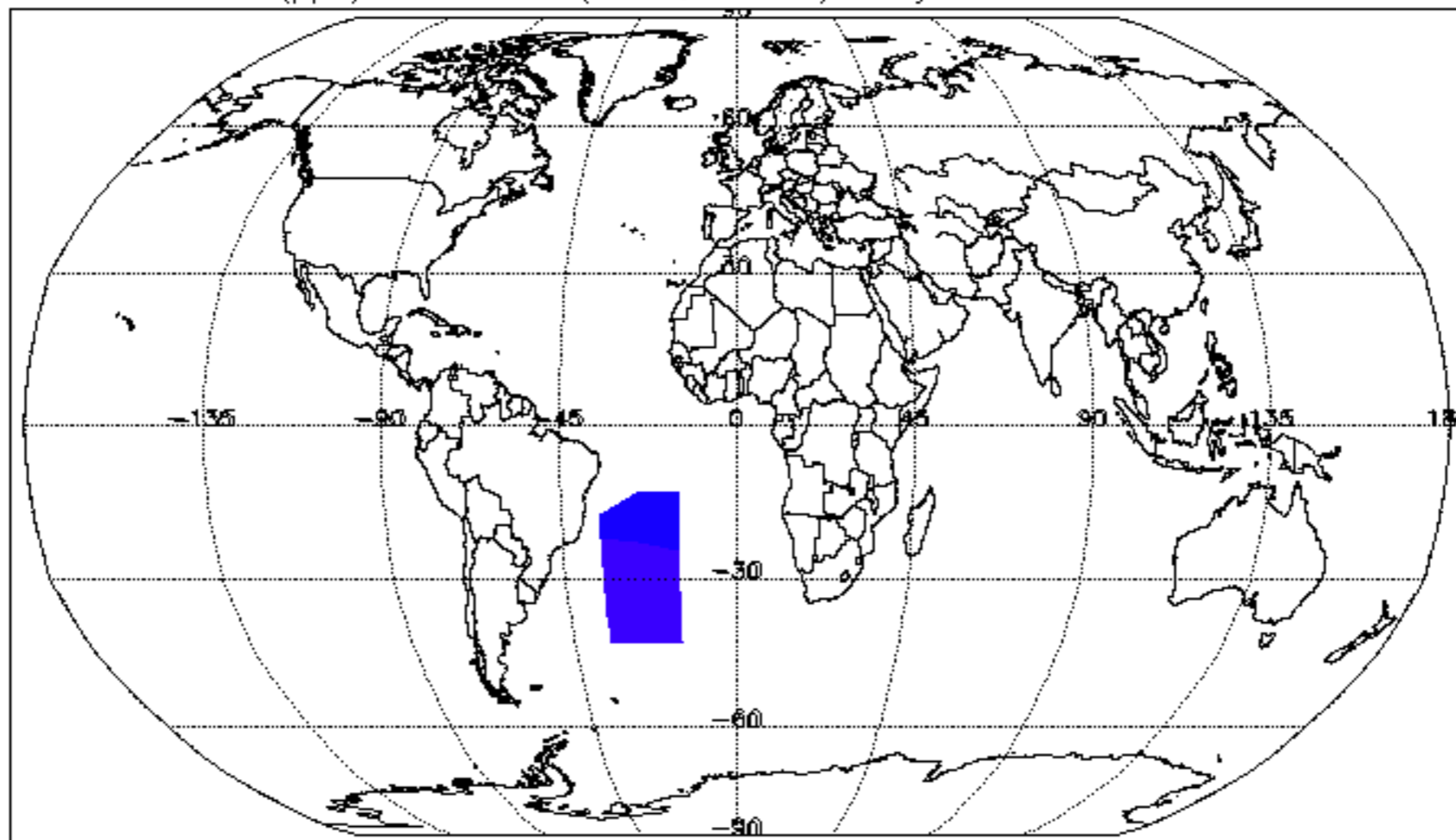
H₂O (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 03-FEB-2012



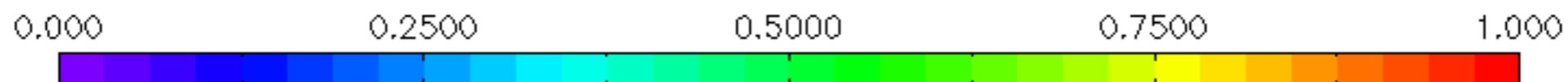
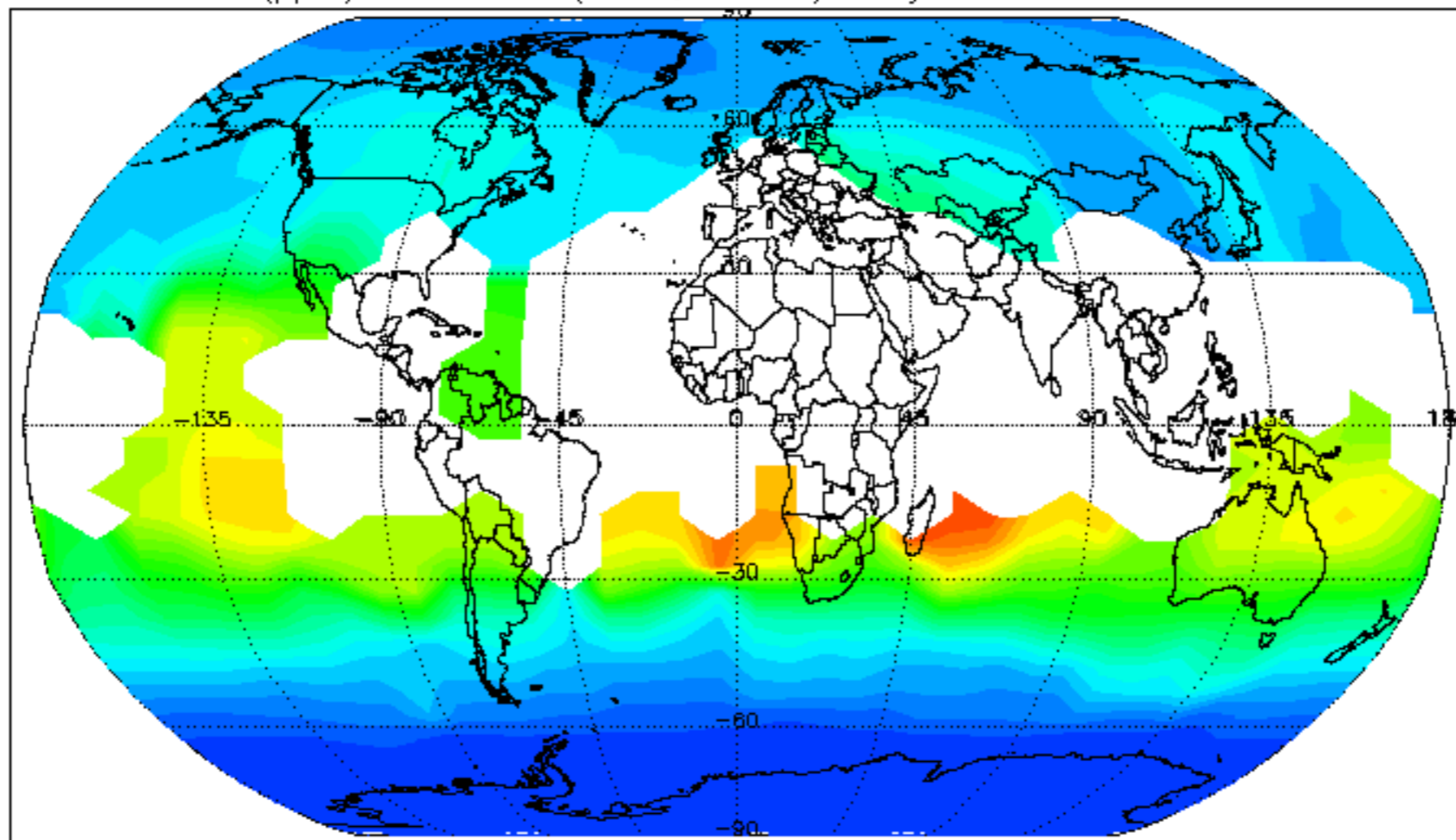
O₃ (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 03-FEB-2012



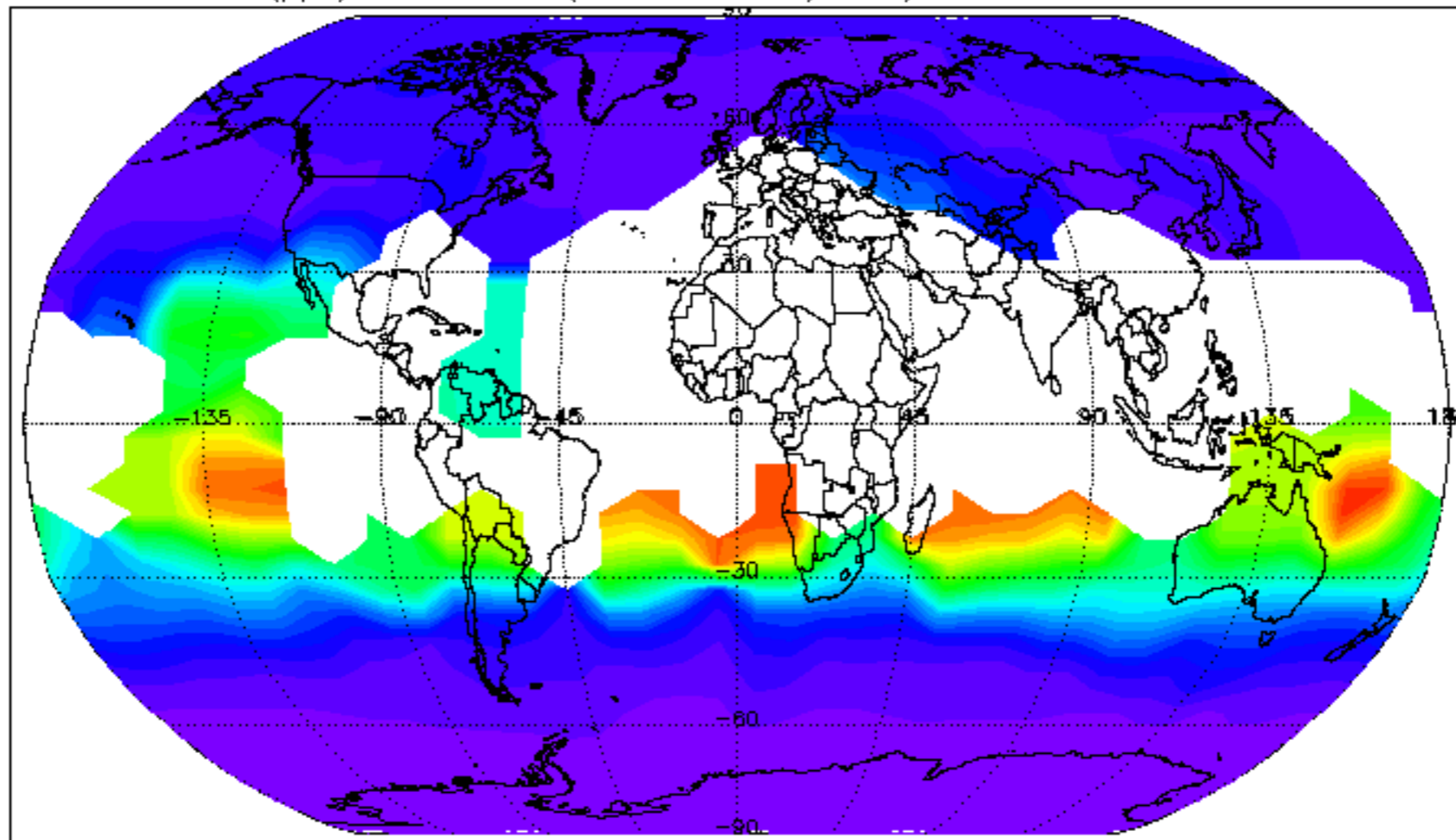
HNO₃ (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 03-FEB-2012



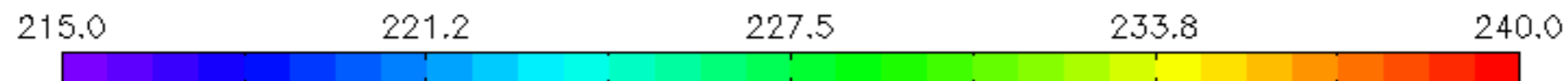
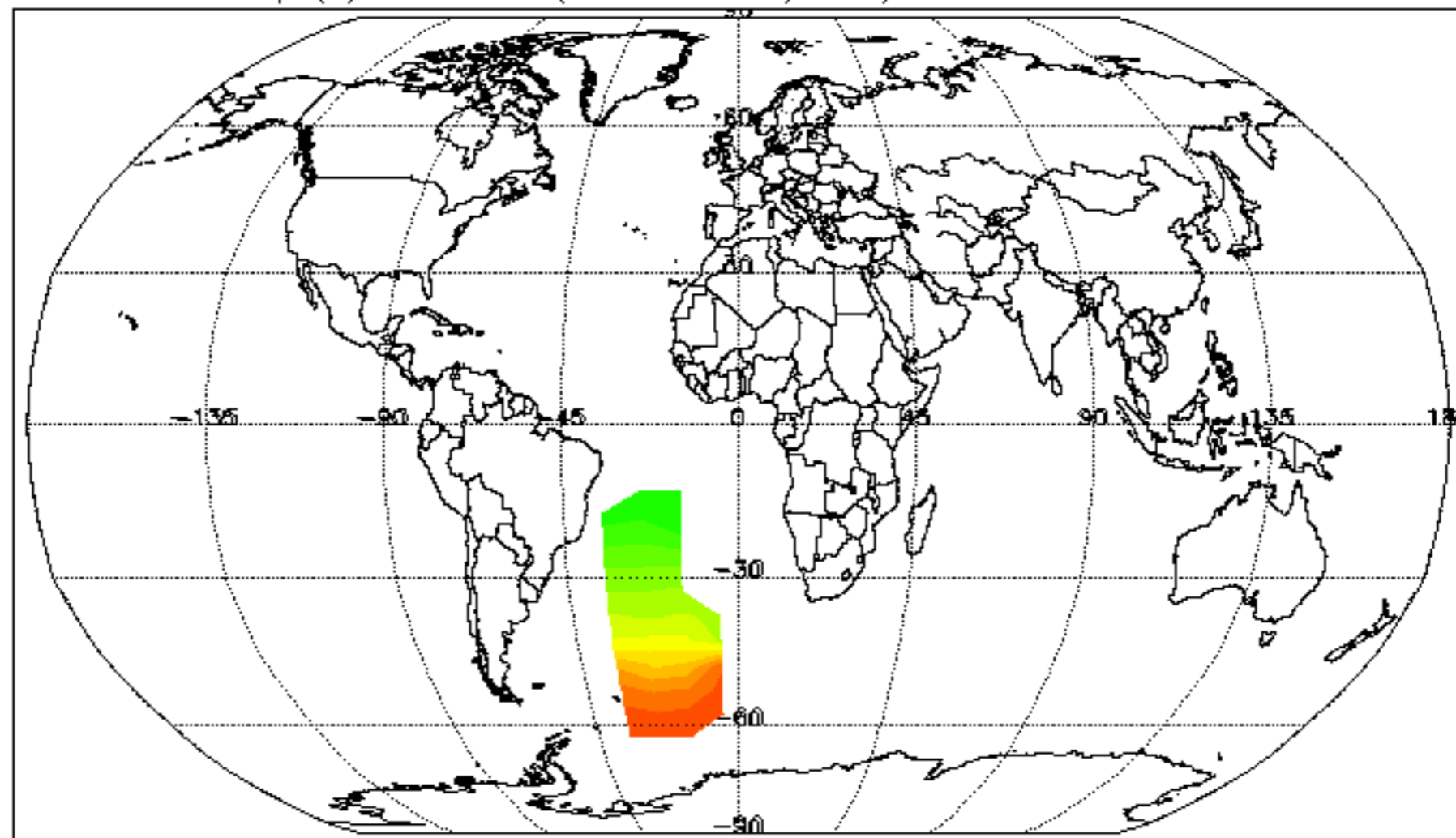
CH₄ (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 03-FEB-2012



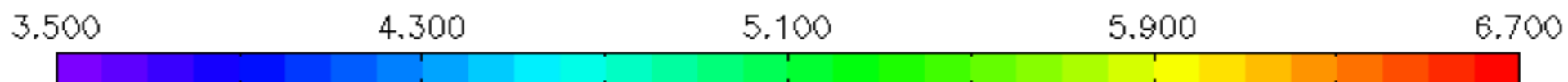
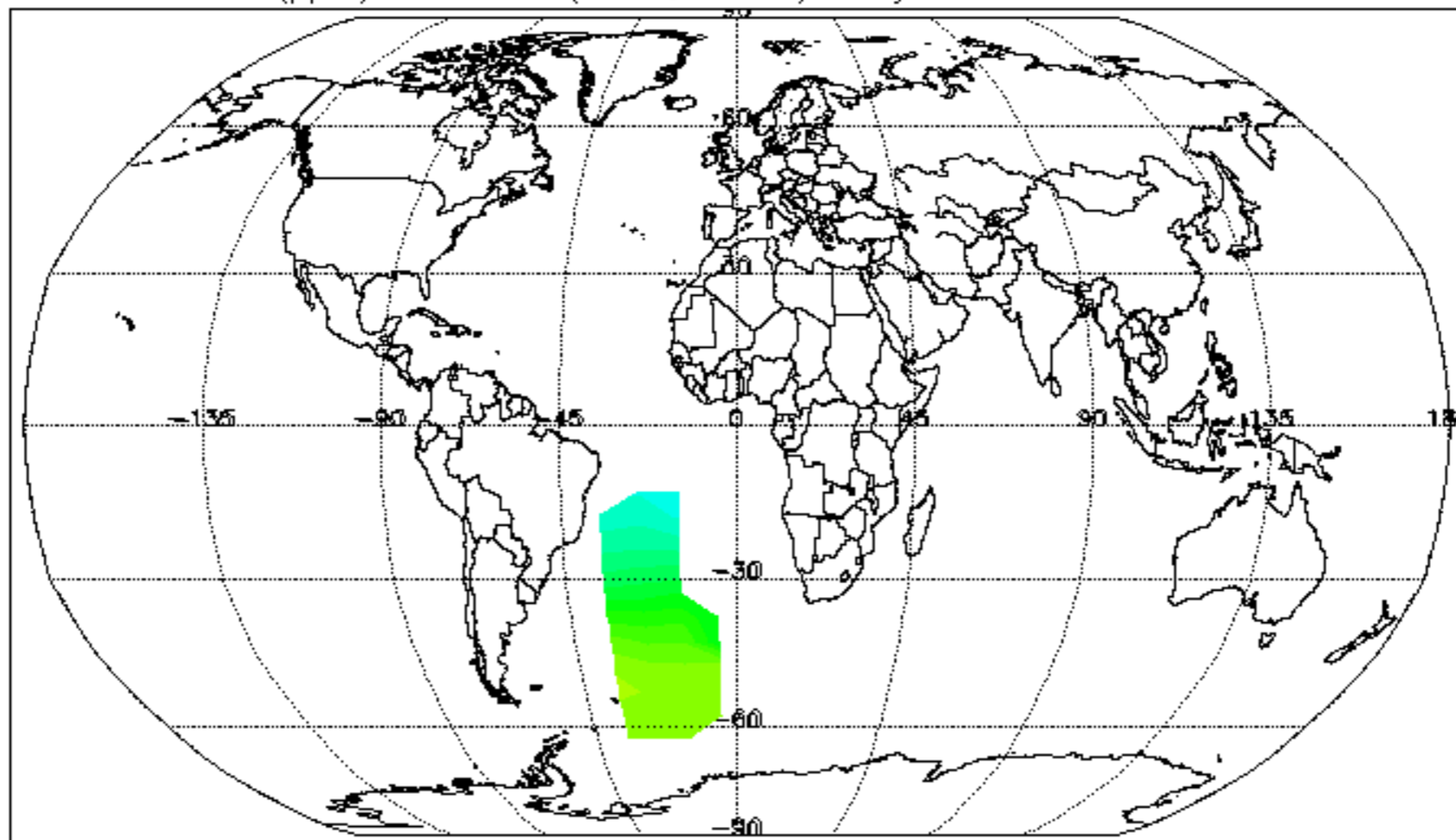
N2O (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 03-FEB-2012



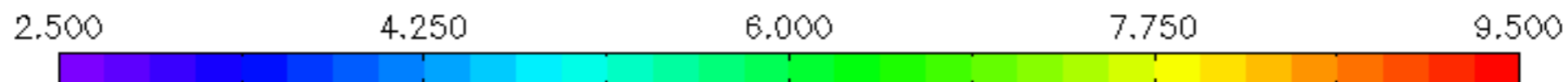
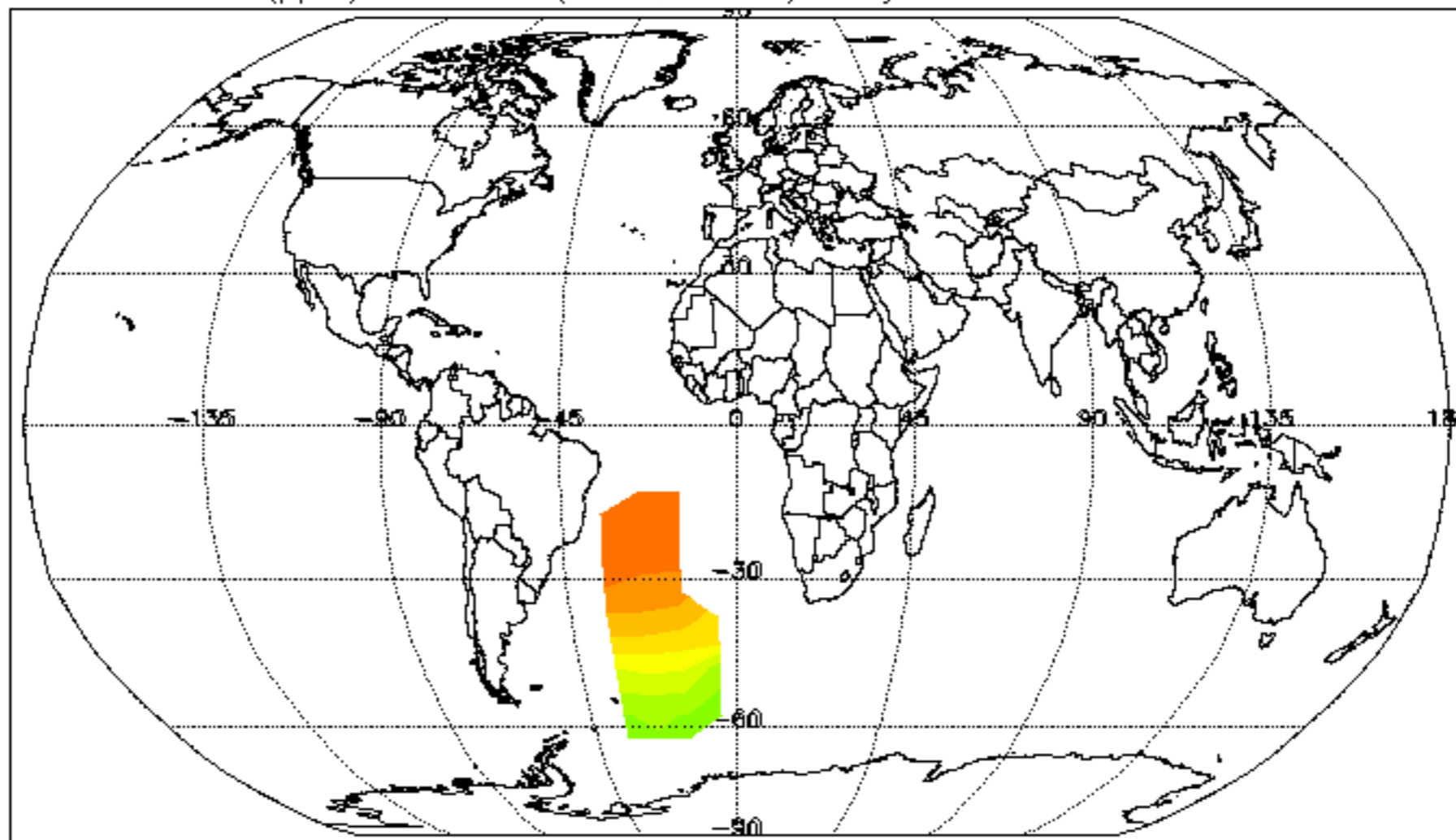
Temp (K) at: 850 K (32km, 10hPa). Daily mean: 03-FEB-2012



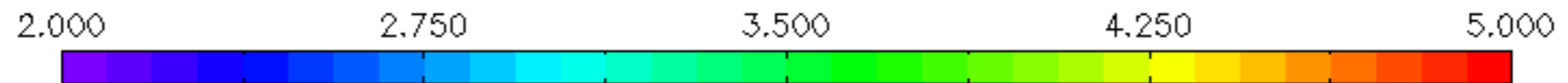
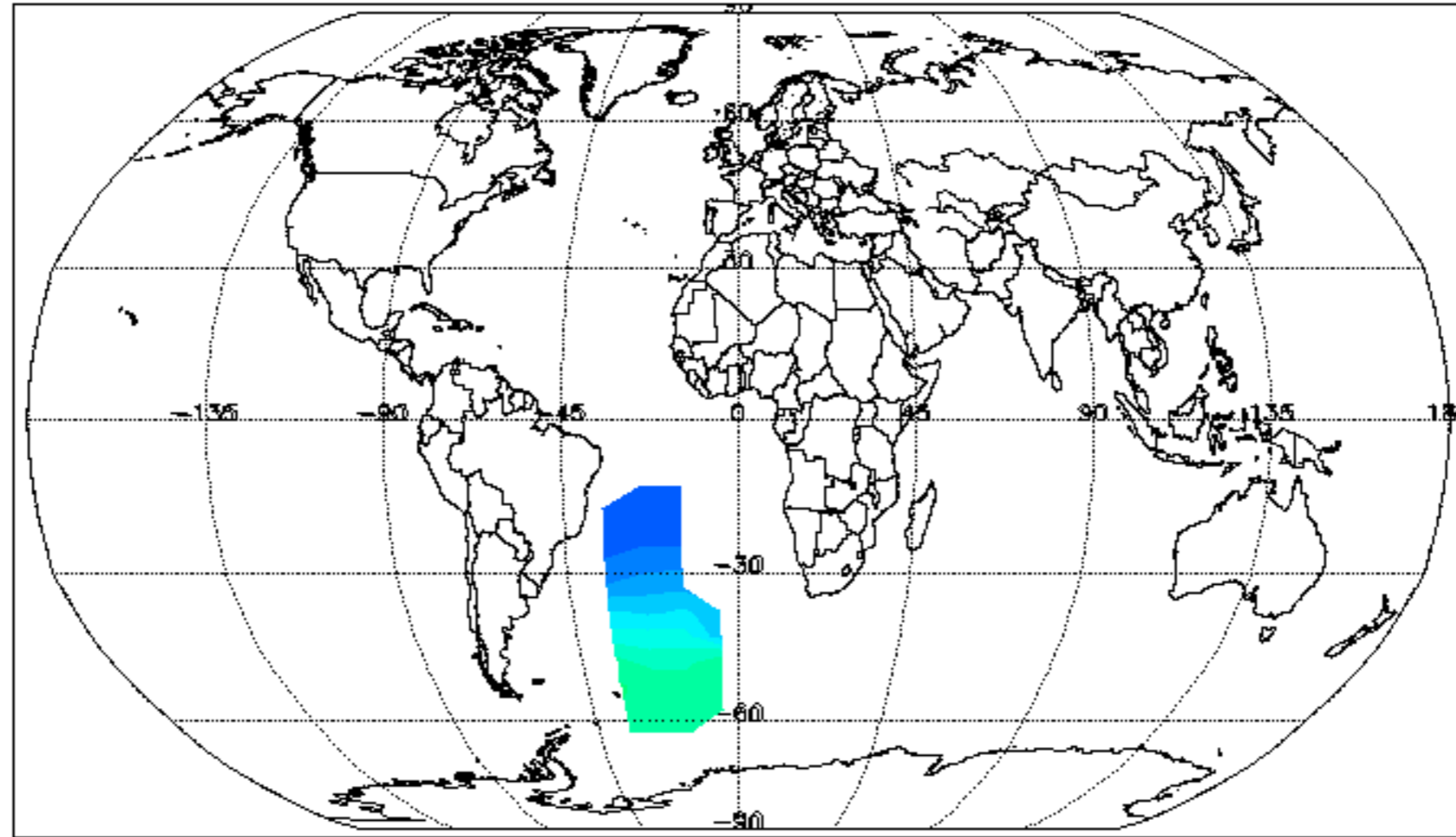
H₂O (ppm) at: 850 K (32km, 10hPa). Daily mean: 03-FEB-2012



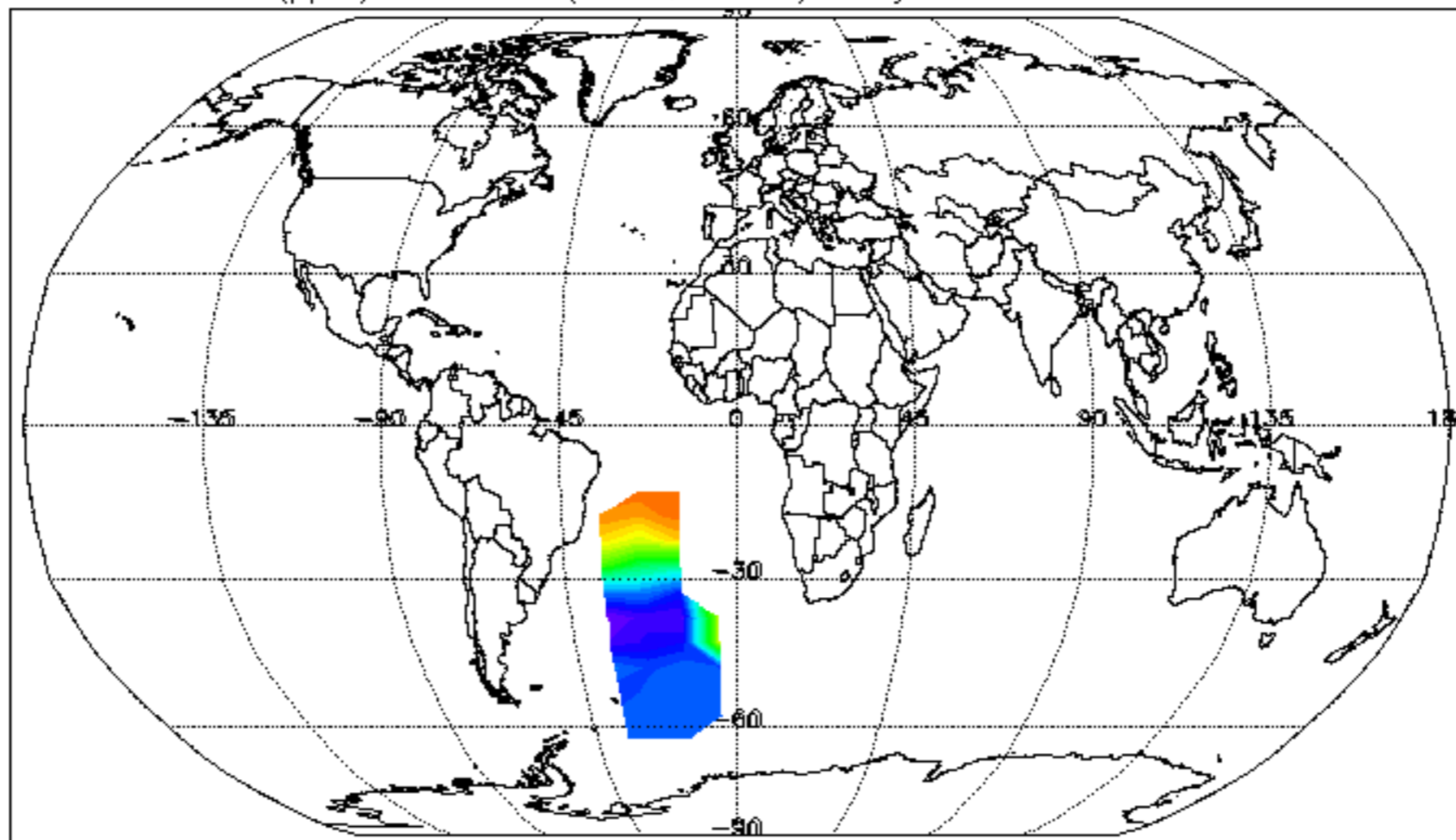
O3 (ppm) at: 850 K (32km, 10hPa). Daily mean: 03-FEB-2012



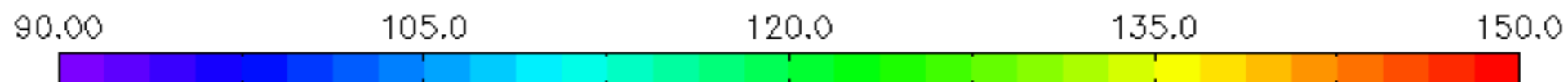
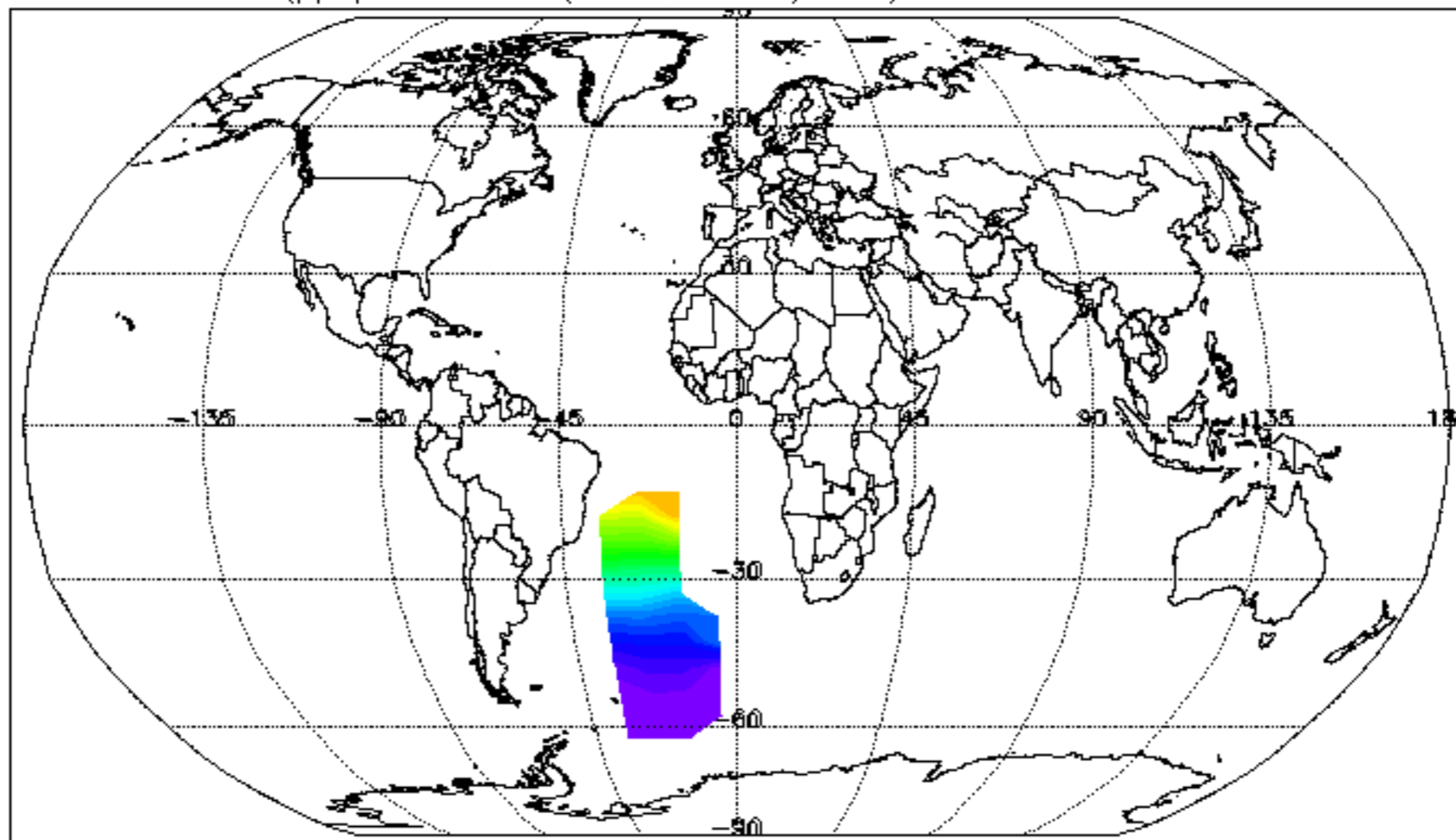
HN03 (ppb) at: 850 K (32km, 10hPa). Daily mean: 03-FEB-2012



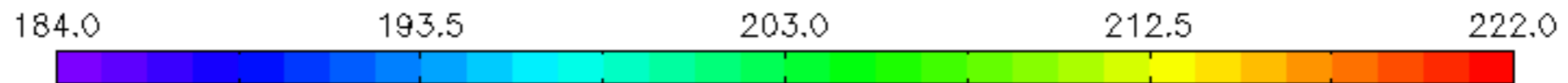
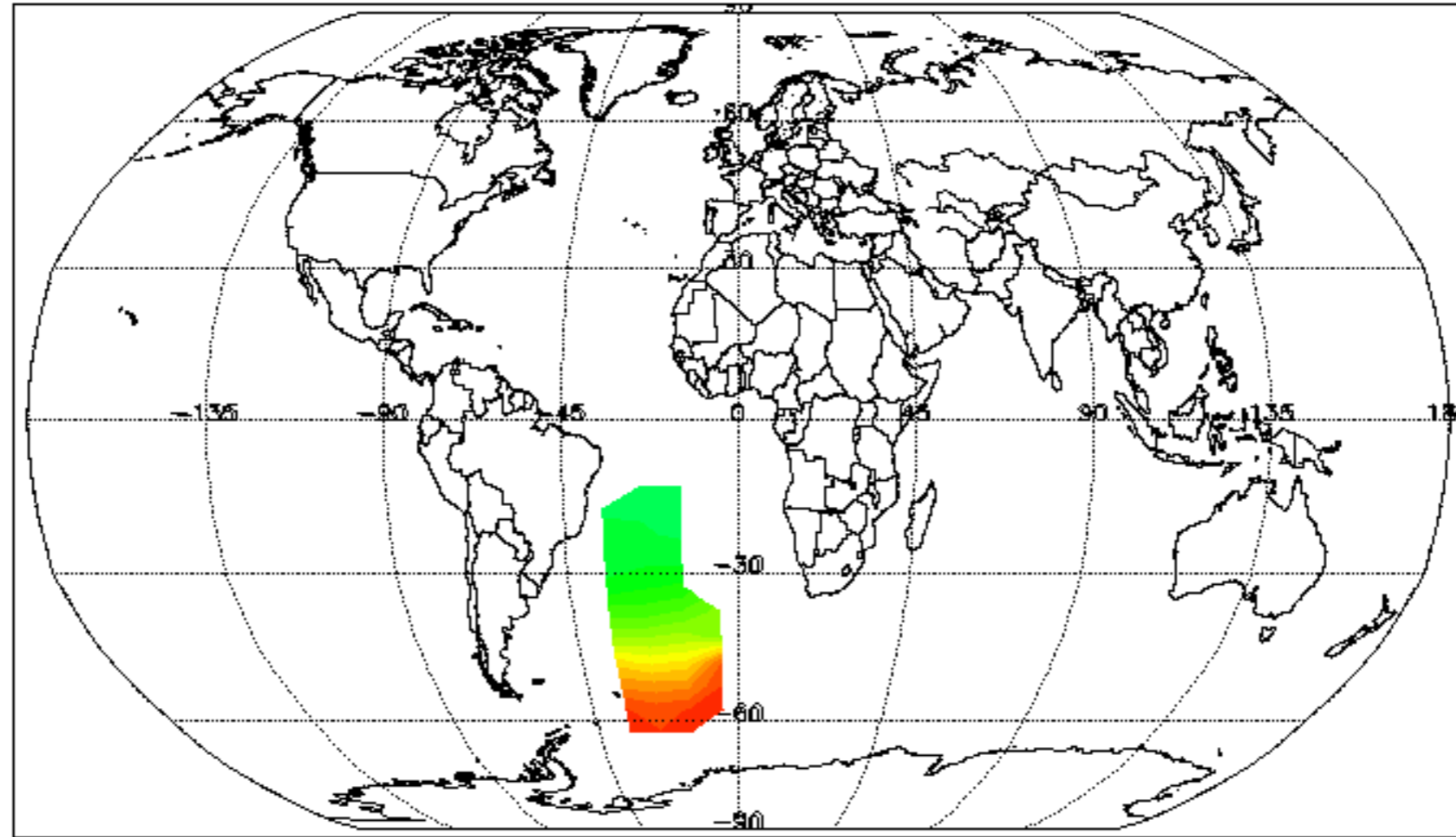
CH₄ (ppm) at: 850 K (32km, 10hPa). Daily mean: 03-FEB-2012



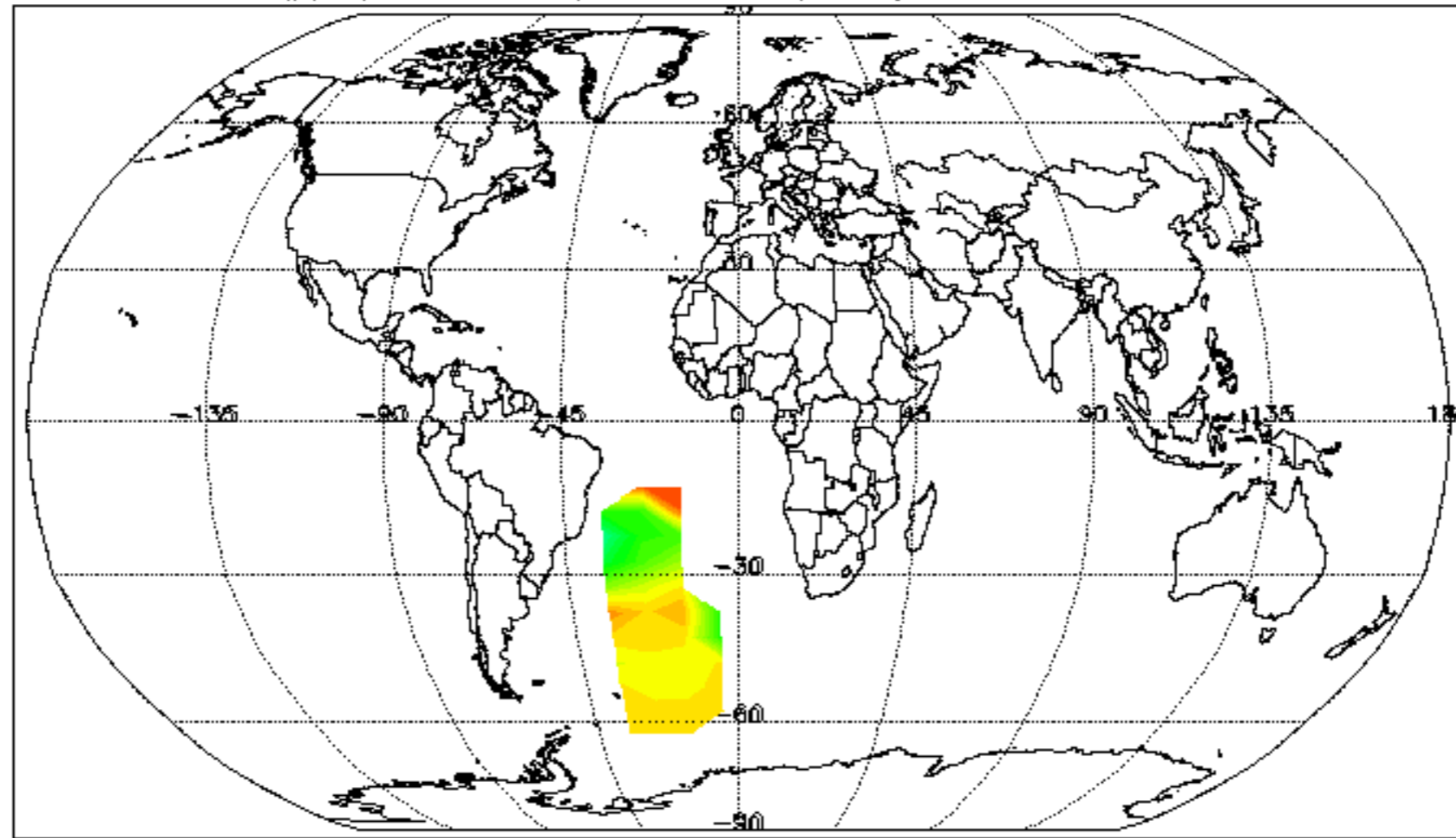
N₂O (ppb) at: 850 K (32km, 10hPa). Daily mean: 03-FEB-2012



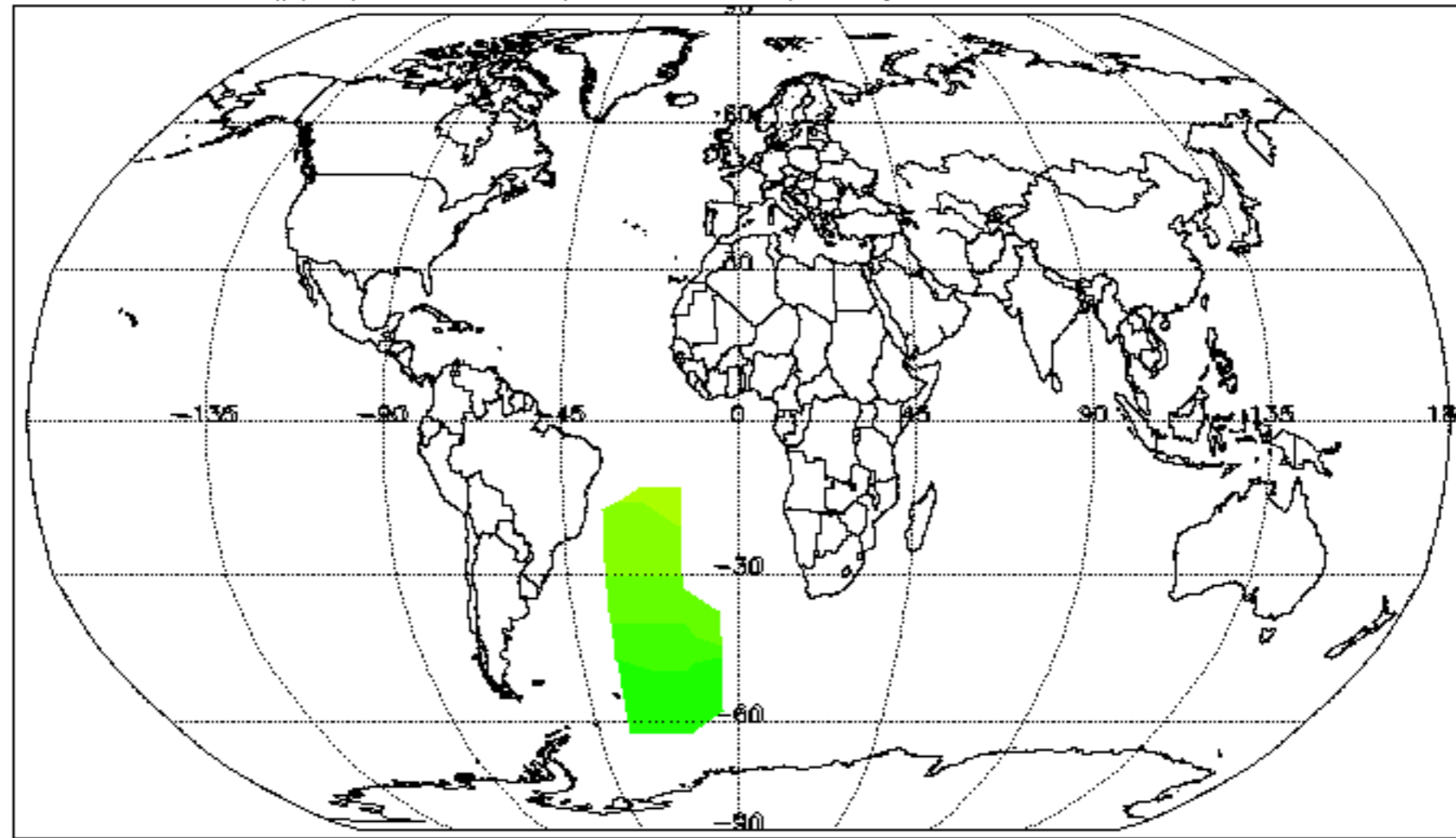
Temp (K) at: 490 K (19km, 55hPa). Daily mean: 03-FEB-2012



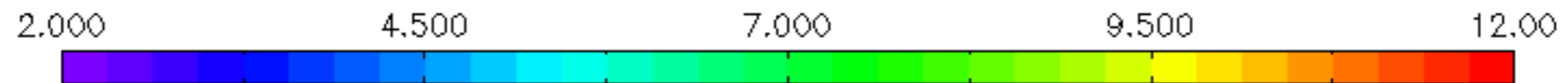
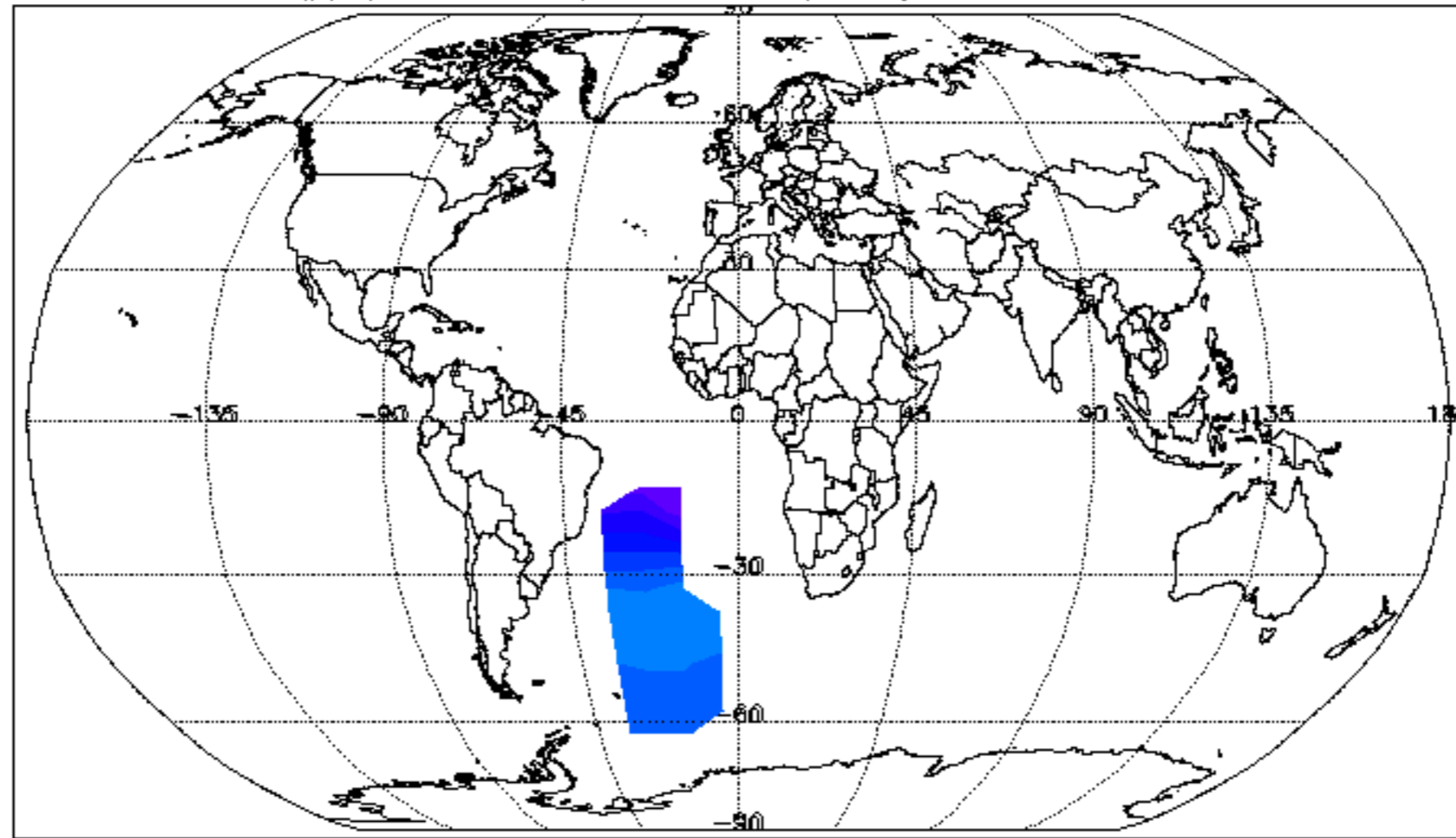
H₂O (ppm) at: 490 K (19km, 55hPa). Daily mean: 03-FEB-2012



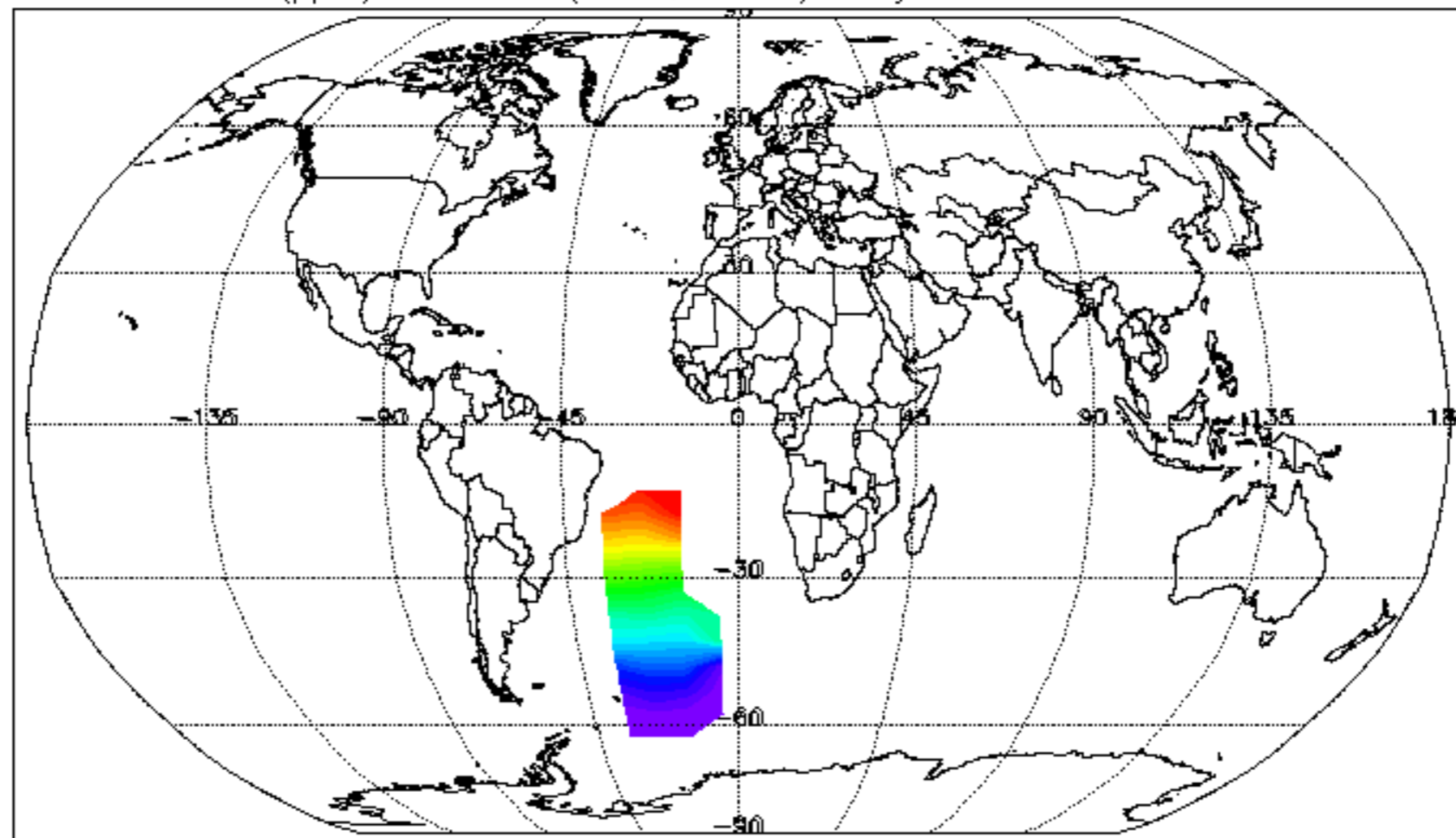
O3 (ppm) at: 490 K (19km, 55hPa). Daily mean: 03-FEB-2012



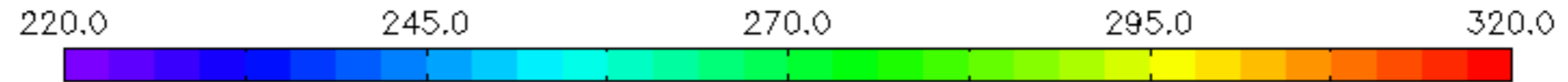
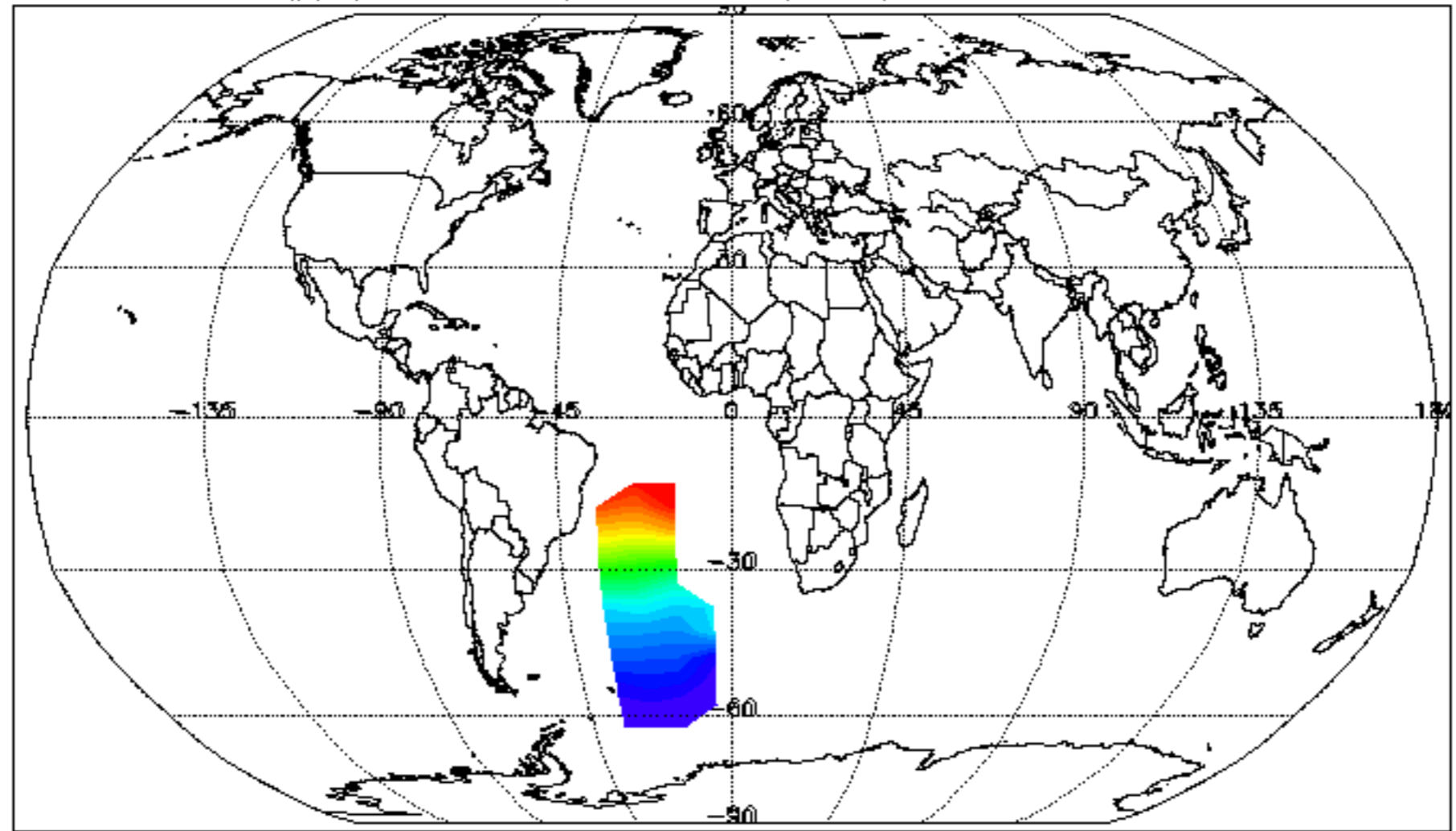
HN03 (ppb) at: 490 K (19km, 55hPa). Daily mean: 03-FEB-2012



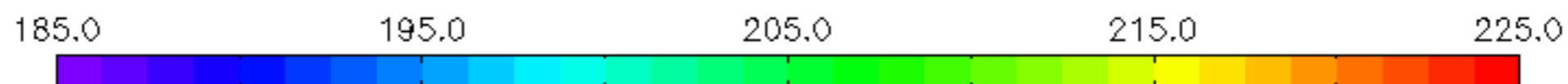
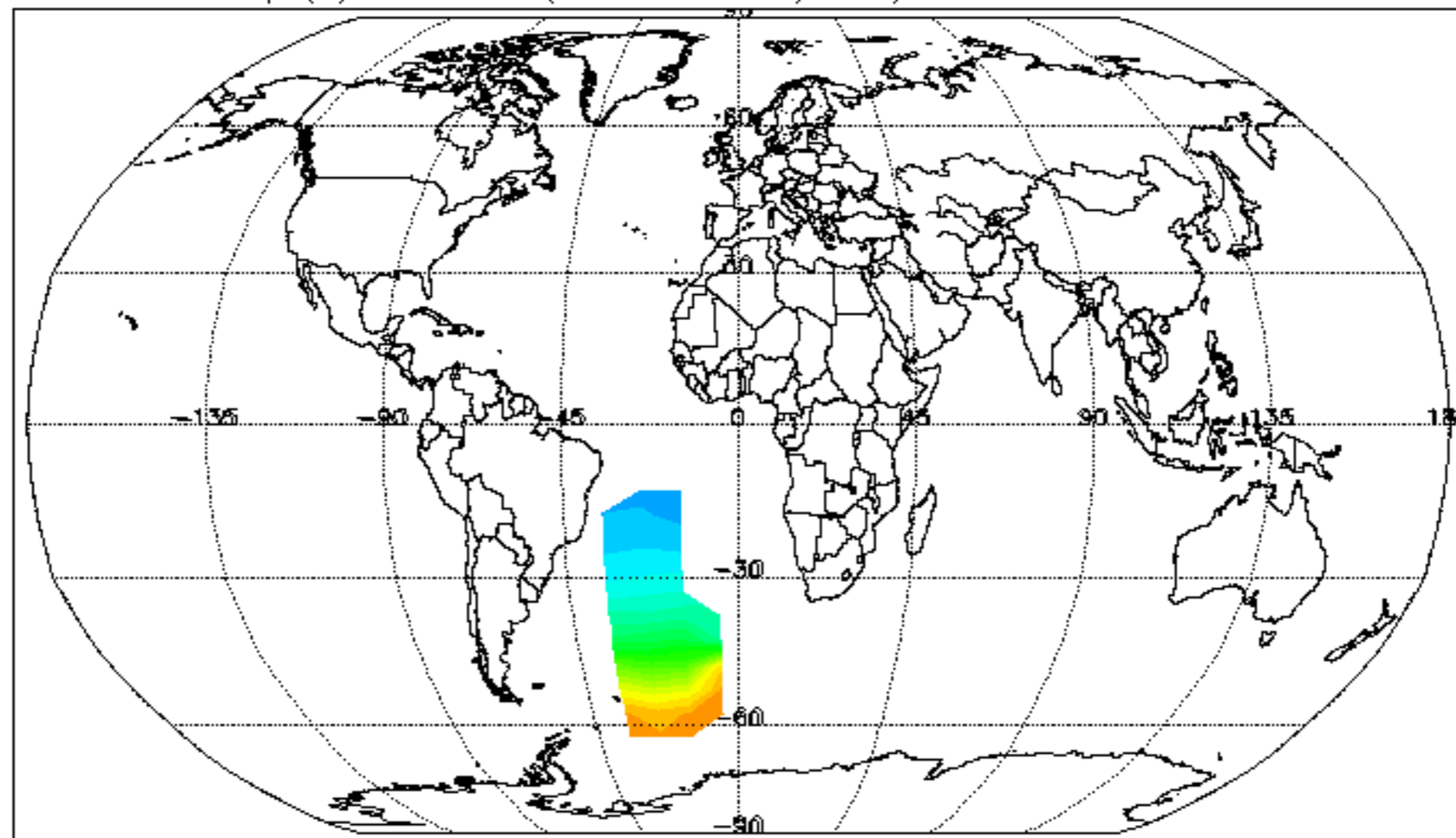
CH₄ (ppm) at: 490 K (19km, 55hPa). Daily mean: 03-FEB-2012



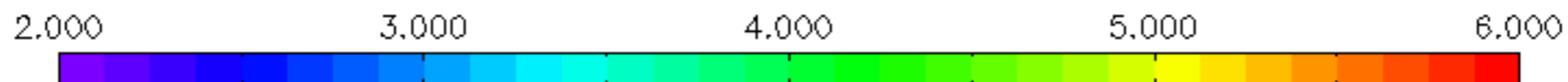
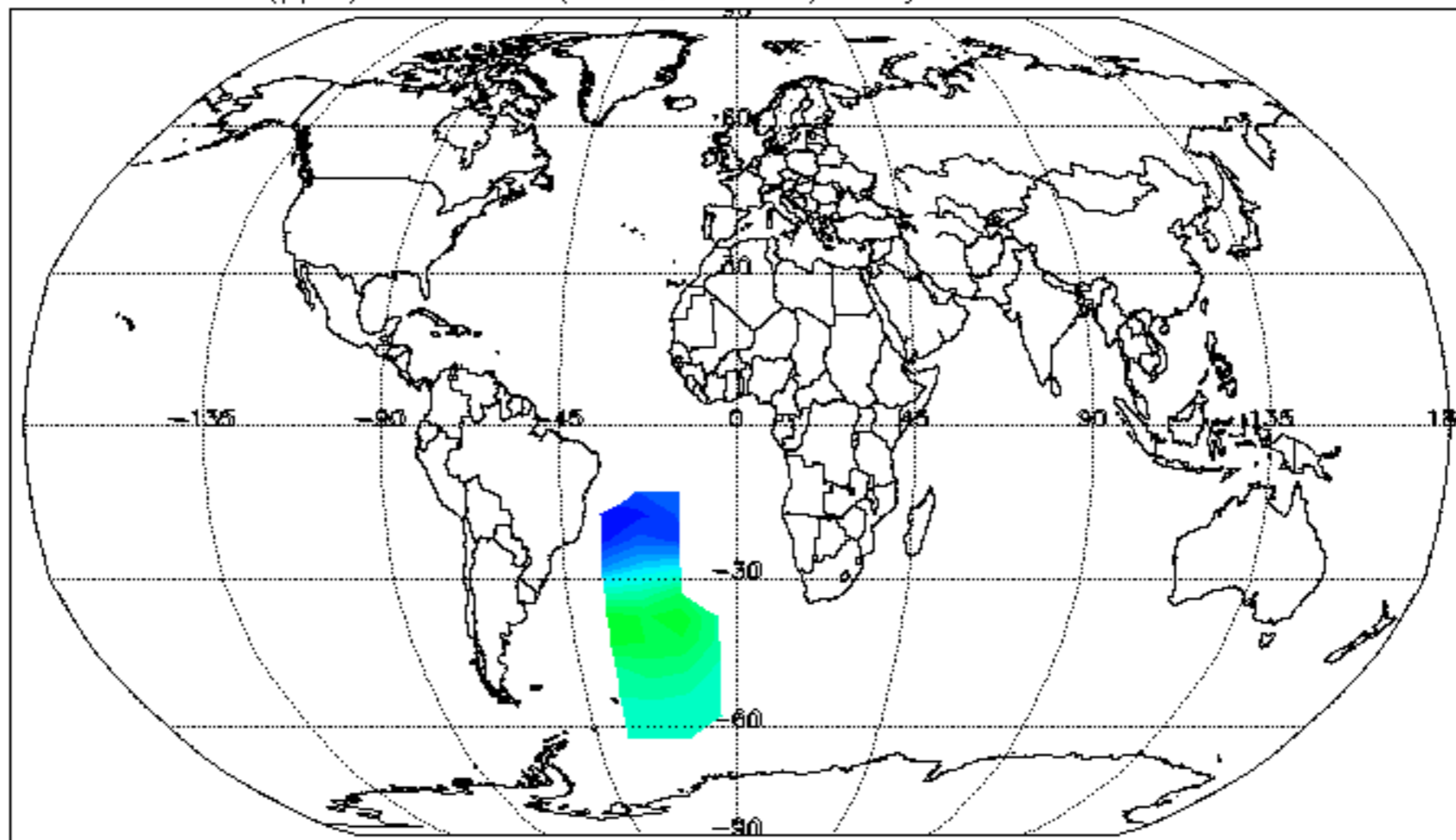
N2O (ppb) at: 490 K (19km, 55hPa). Daily mean: 03-FEB-2012



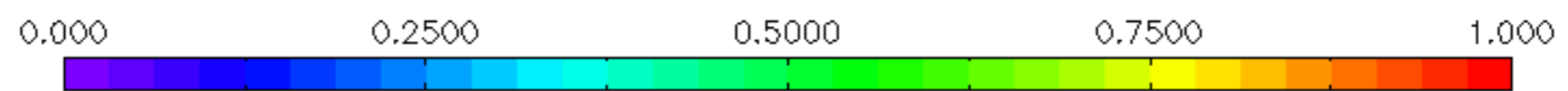
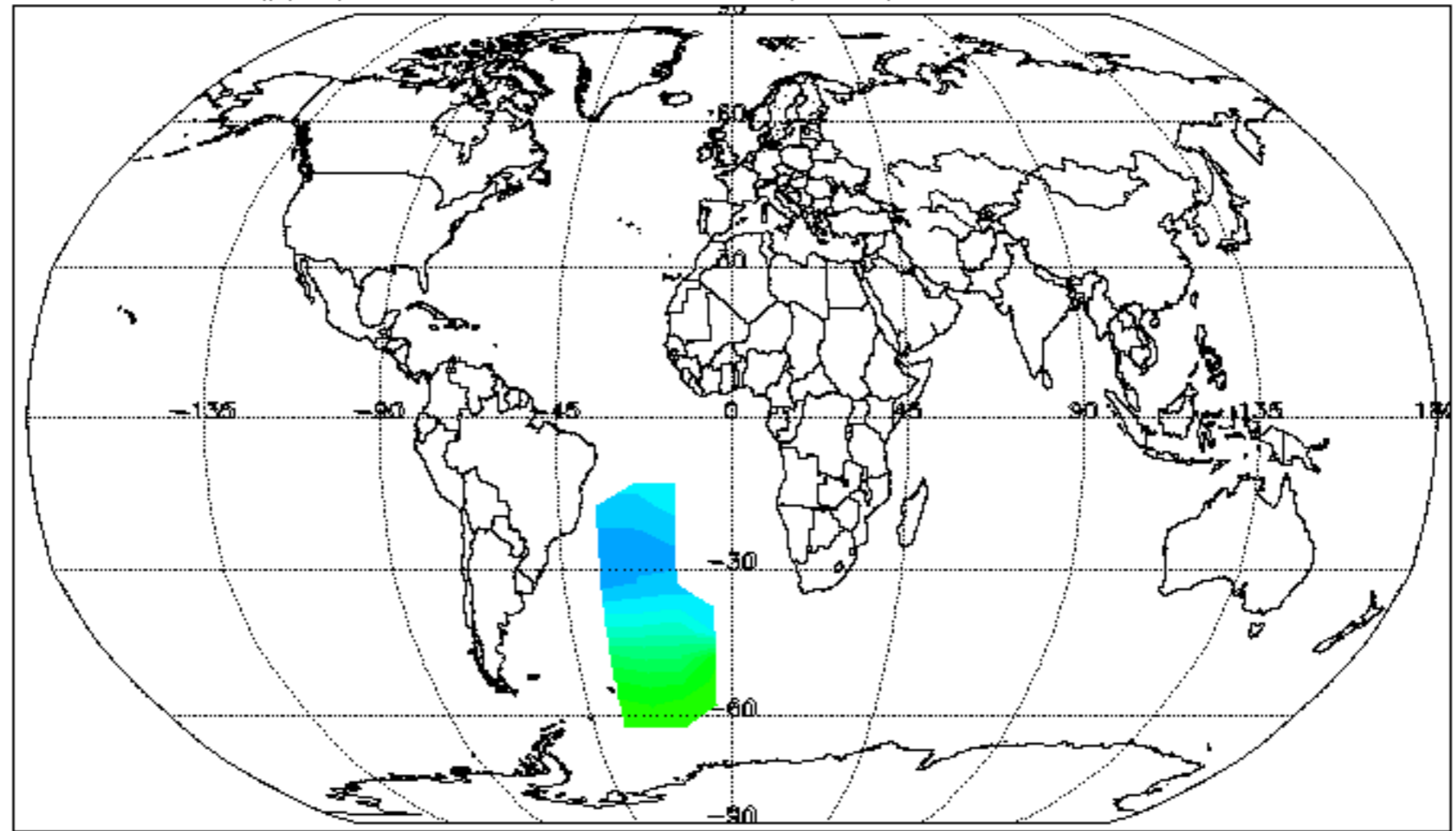
Temp (K) at: 410 K (16km, 100hPa). Daily mean: 03-FEB-2012



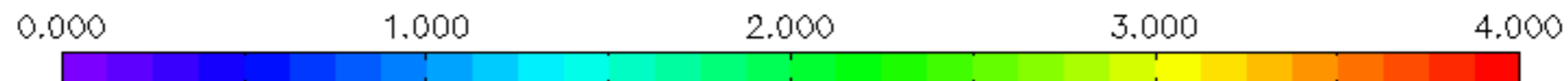
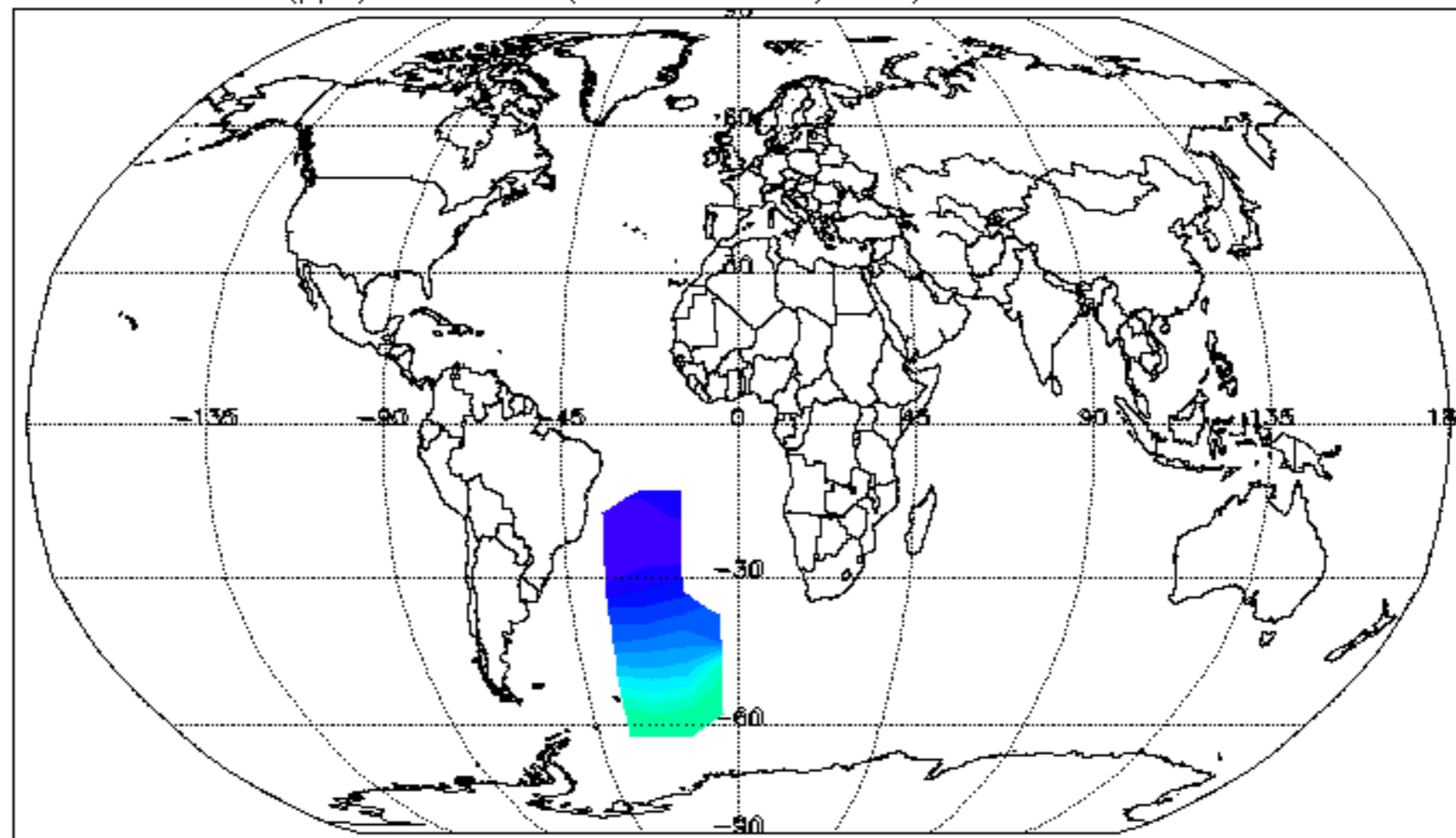
H₂O (ppm) at: 410 K (16km, 100hPa). Daily mean: 03-FEB-2012



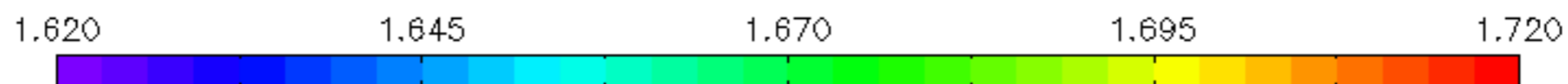
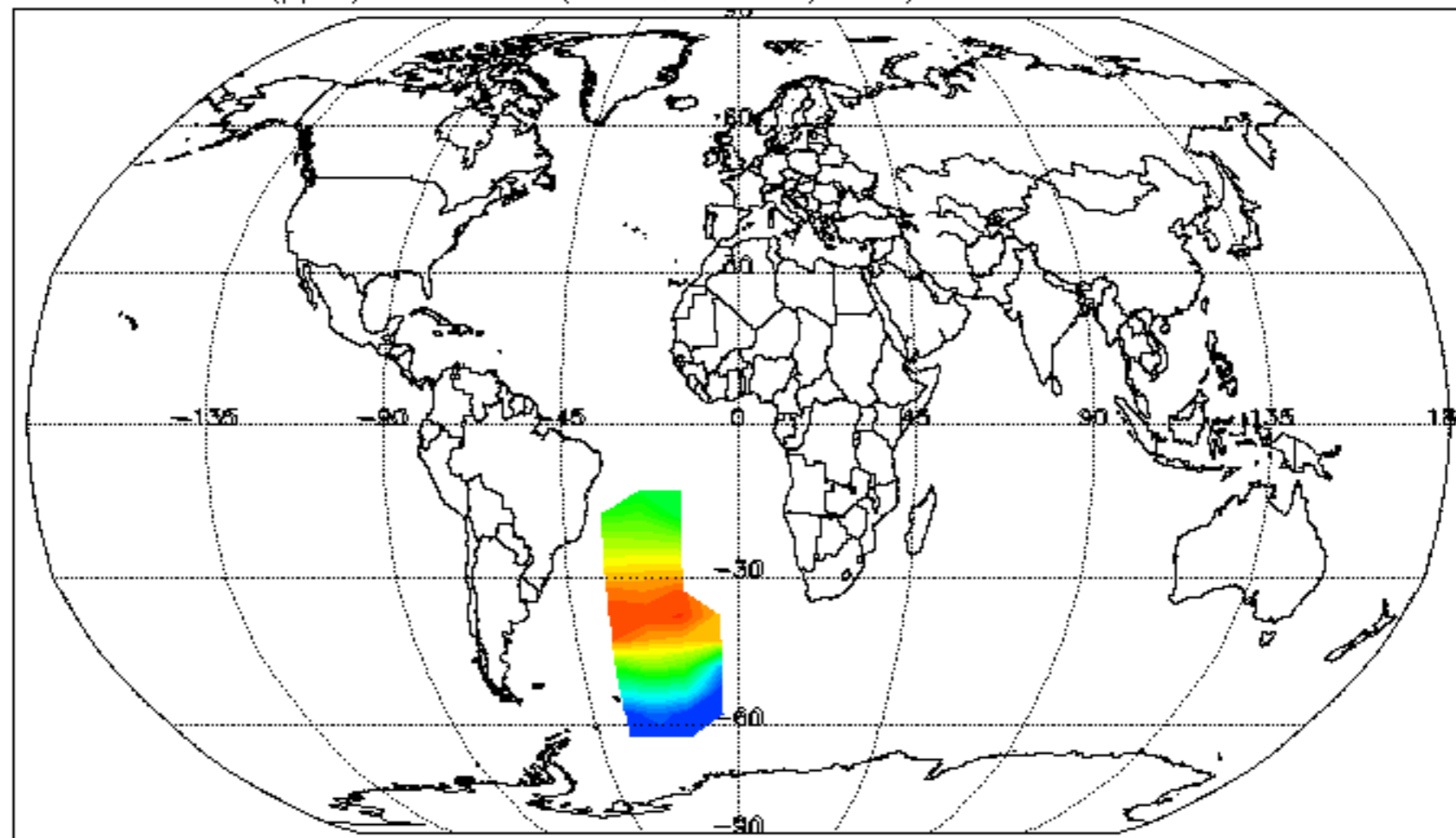
O3 (ppm) at: 410 K (16km, 100hPa). Daily mean: 03-FEB-2012



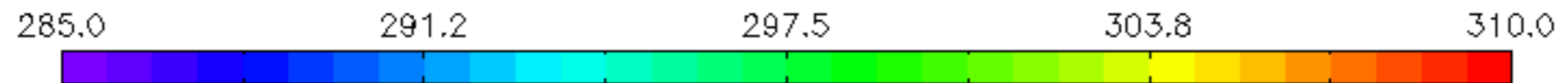
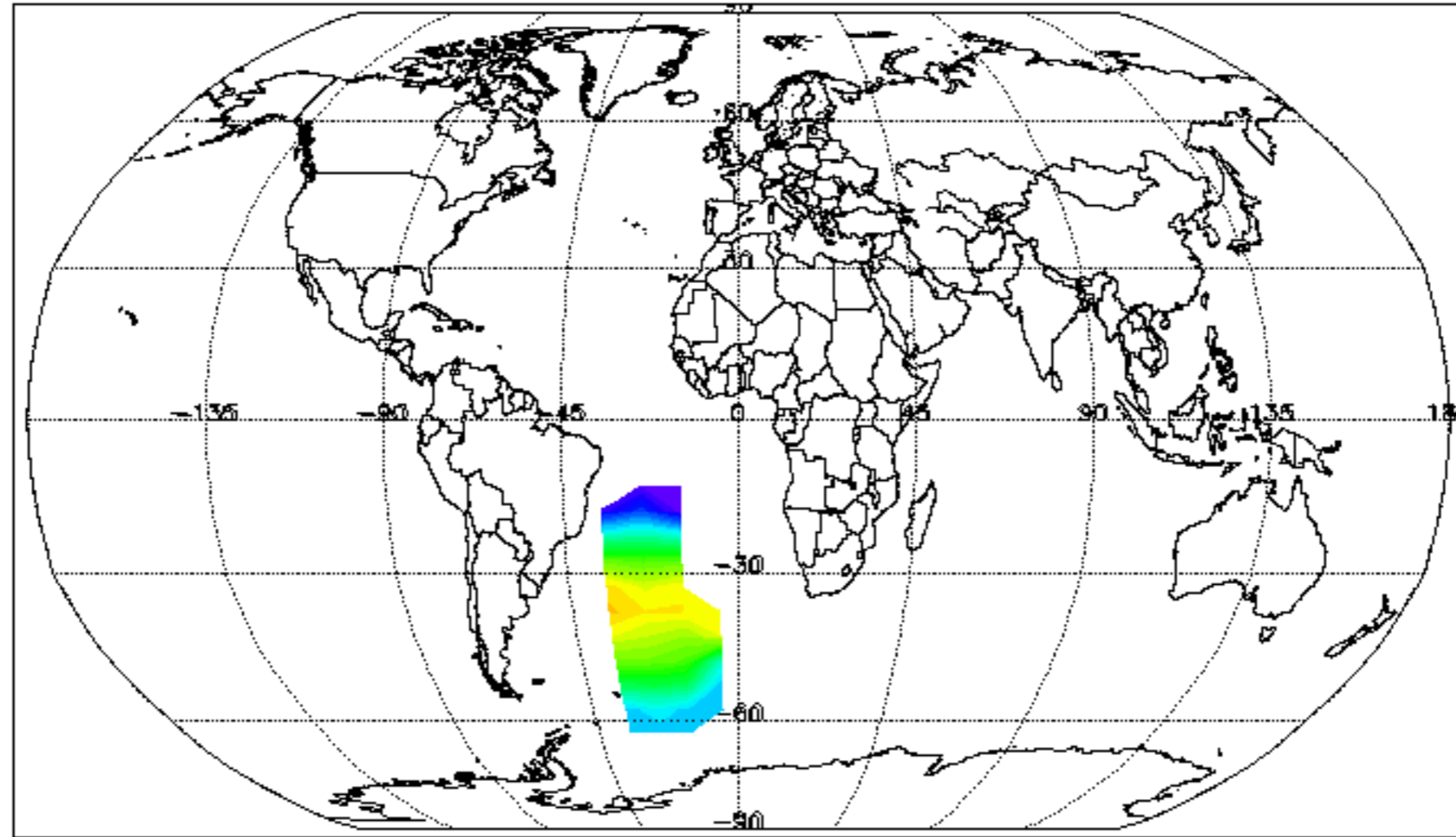
HN03 (ppb) at: 410 K (16km, 100hPa). Daily mean: 03-FEB-2012



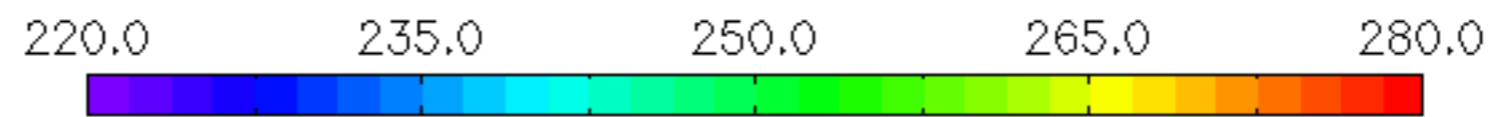
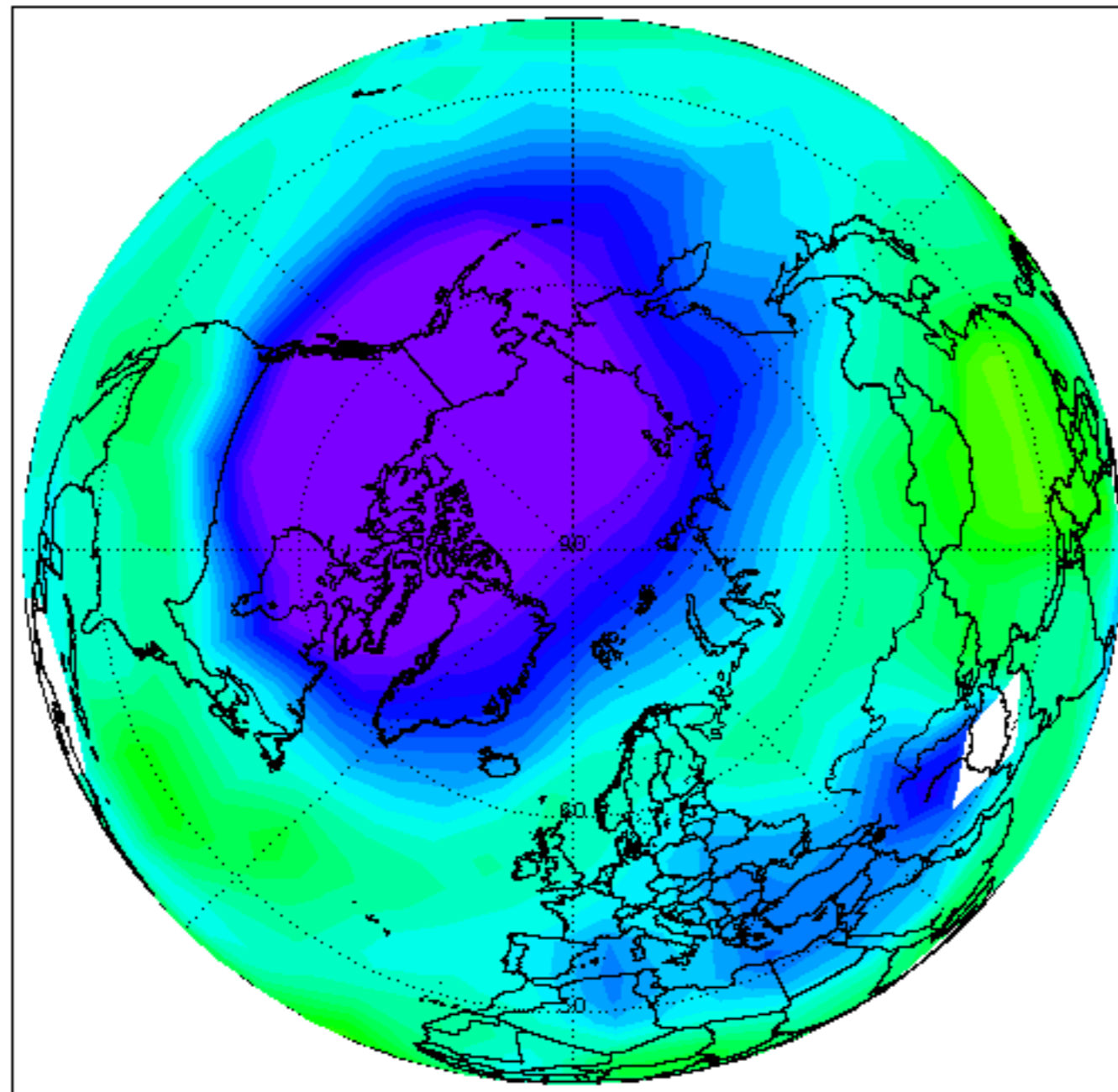
CH₄ (ppm) at: 410 K (16km, 100hPa). Daily mean: 03-FEB-2012



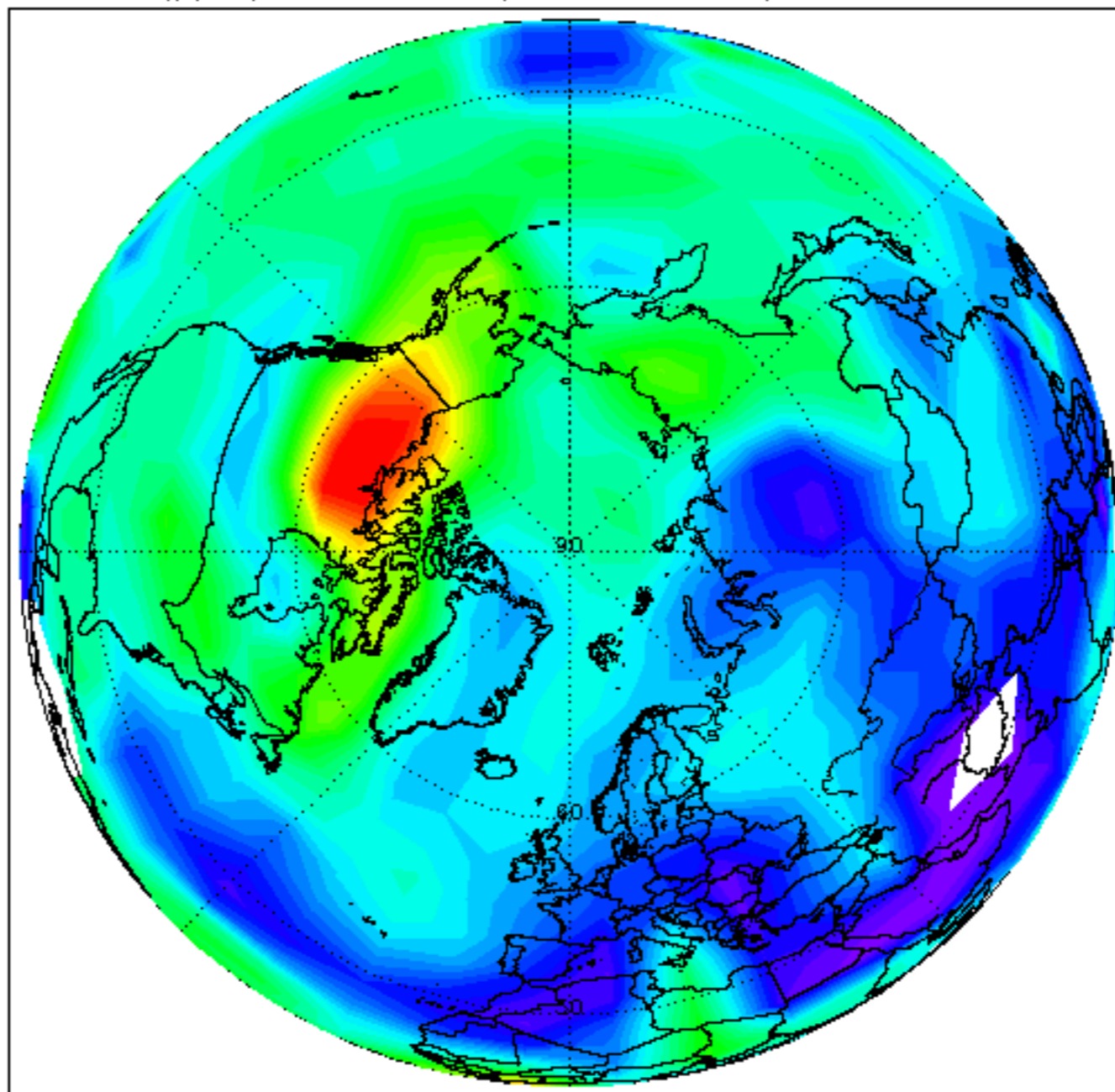
N₂O (ppb) at: 410 K (16km, 100hPa). Daily mean: 03-FEB-2012



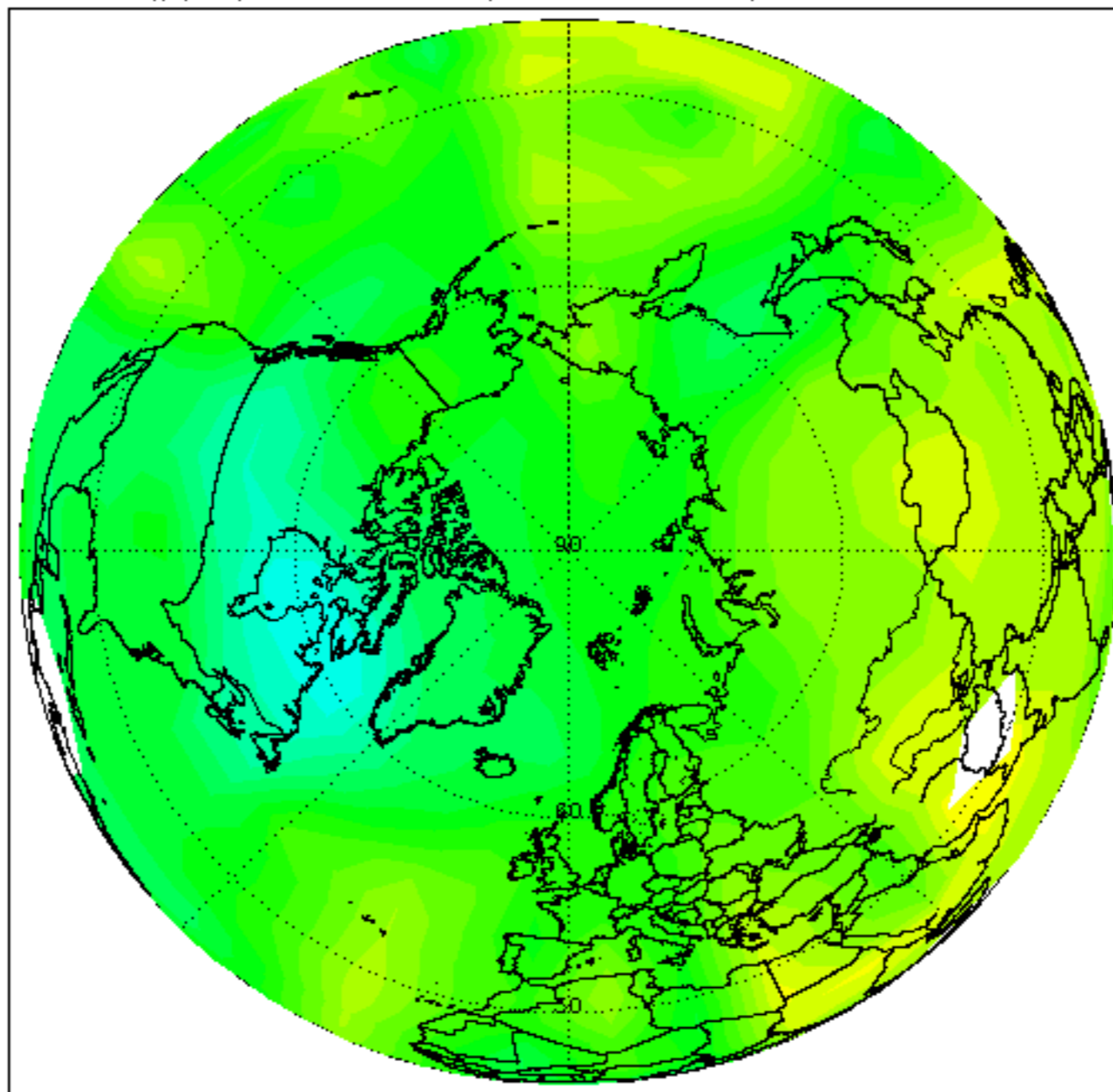
Temp (K) at 2700 K (60km, 0.2hPa). 03-FEB-2012



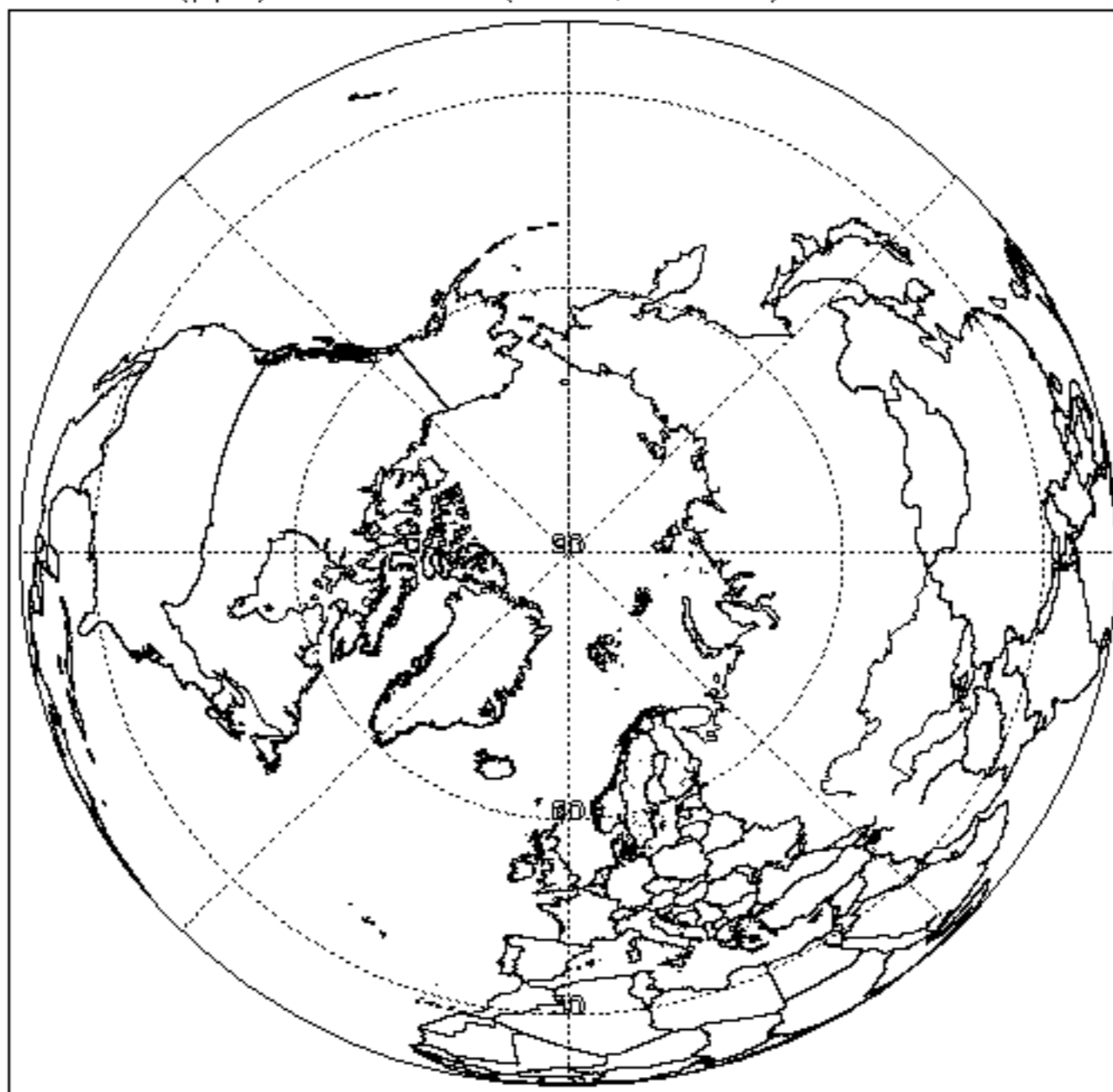
H₂O (ppm) at 2700 K (60km, 0.2hPa). 03-FEB-2012



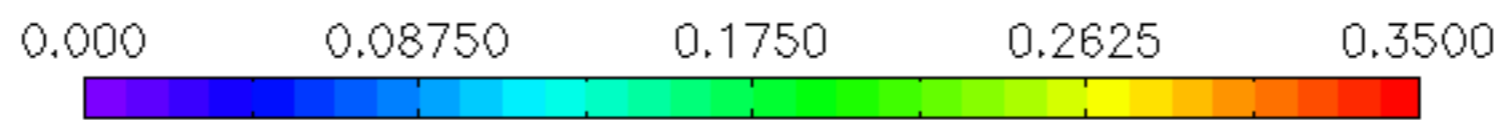
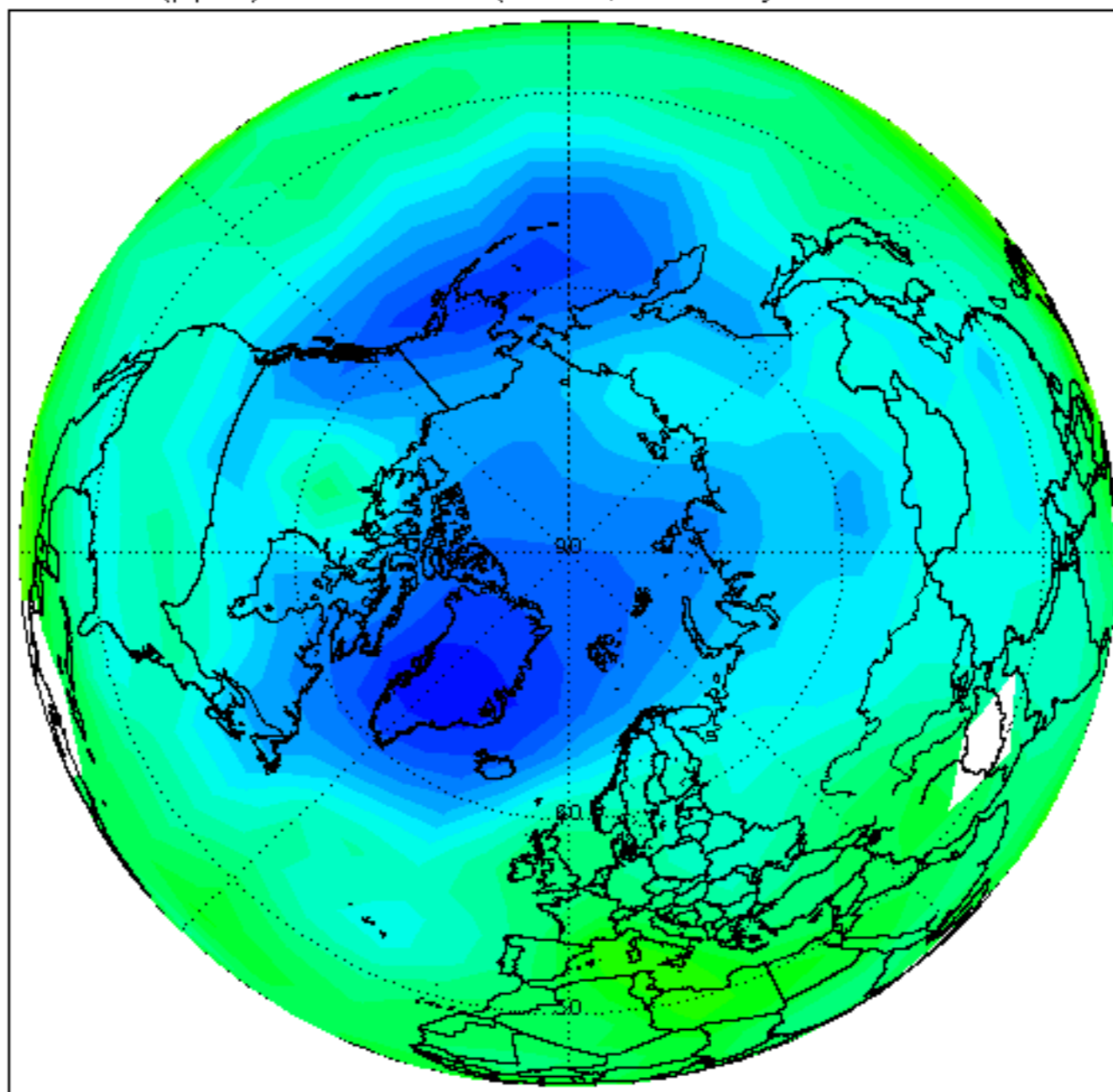
O3 (ppm) at 2700 K (60km, 0.2hPa). 03-FEB-2012



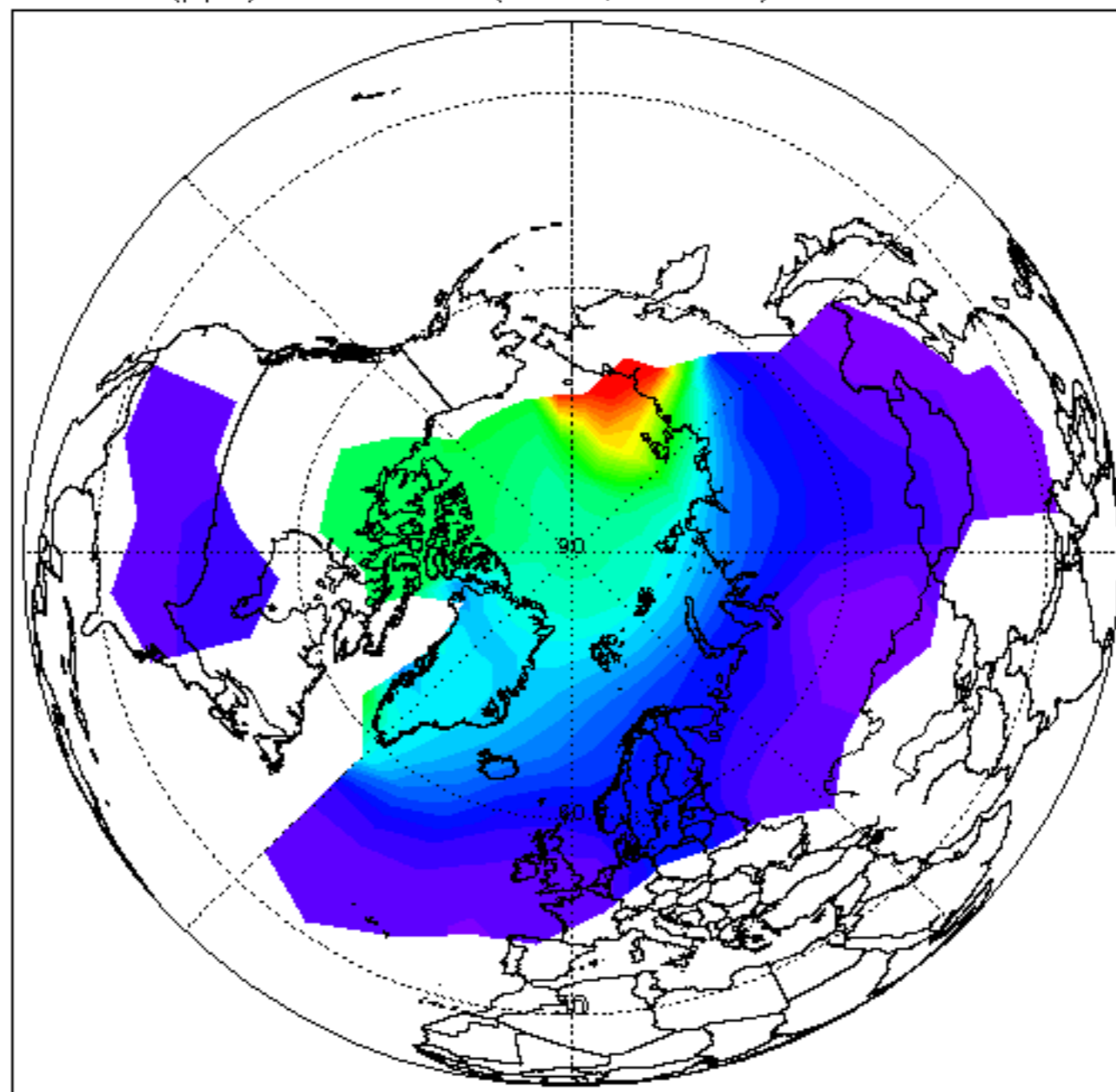
HN03 (ppb) at 2700 K (60km, 0.2hPa). 03-FEB-2012



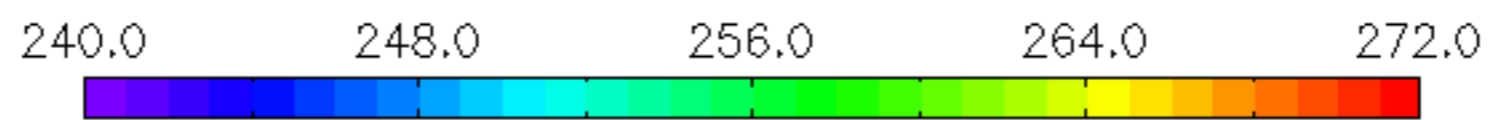
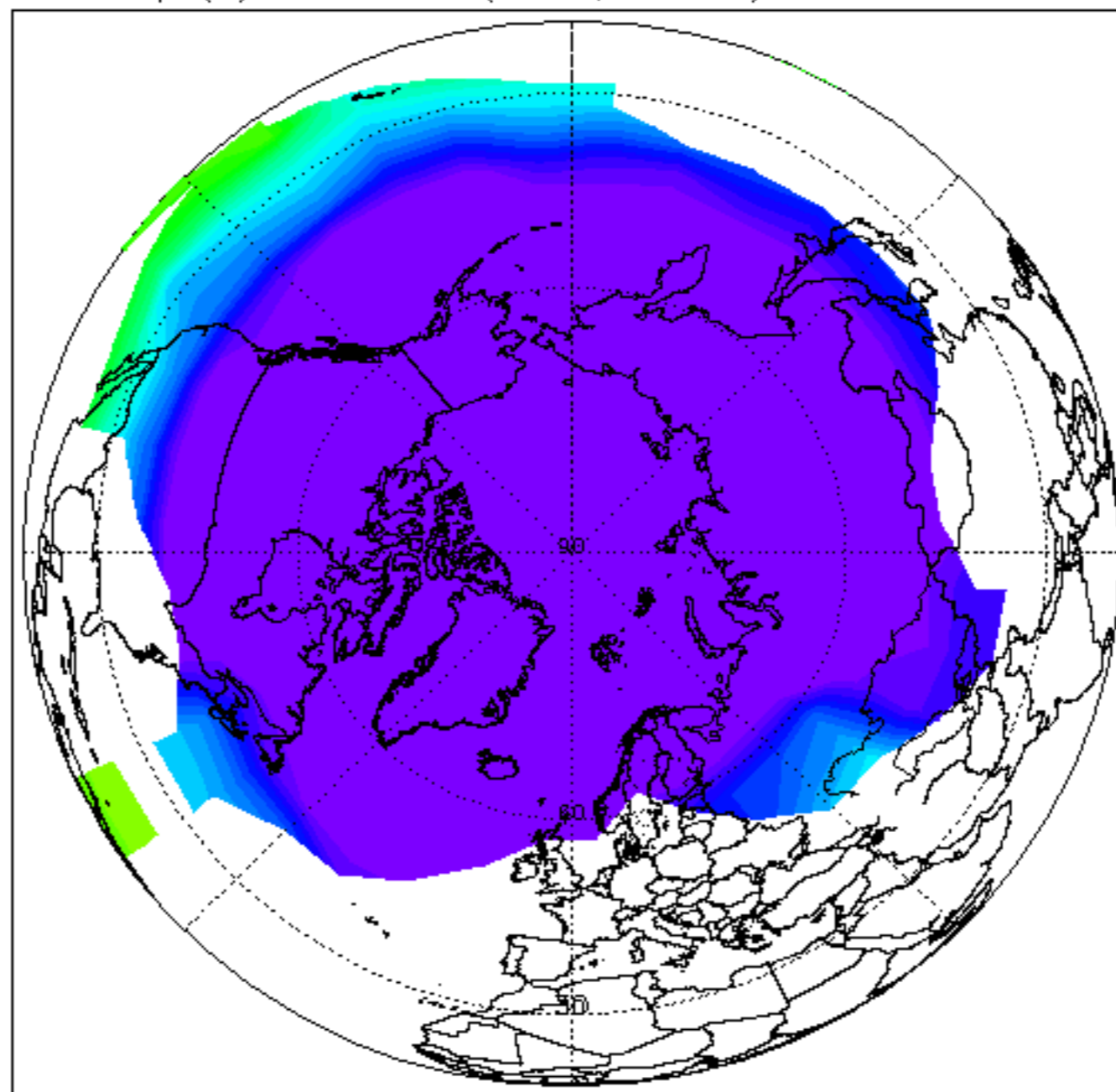
CH₄ (ppm) at 2700 K (60km, 0.2hPa). 03-FEB-2012



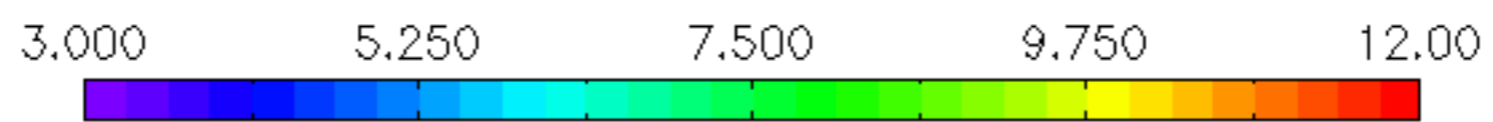
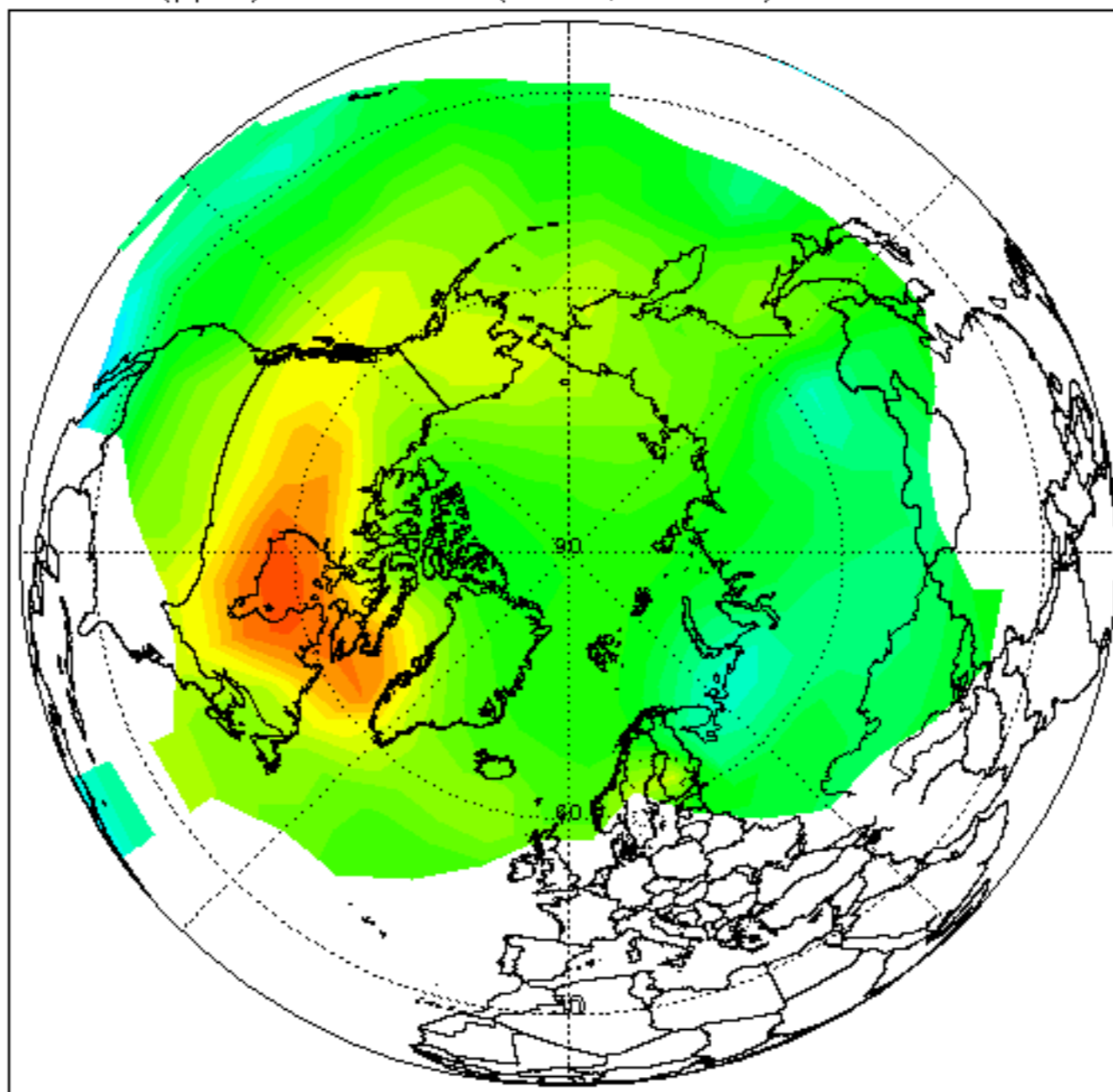
N₂O (ppb) at 2700 K (60km, 0.2hPa). 03-FEB-2012



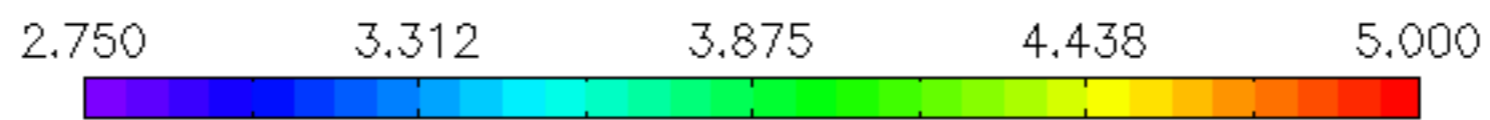
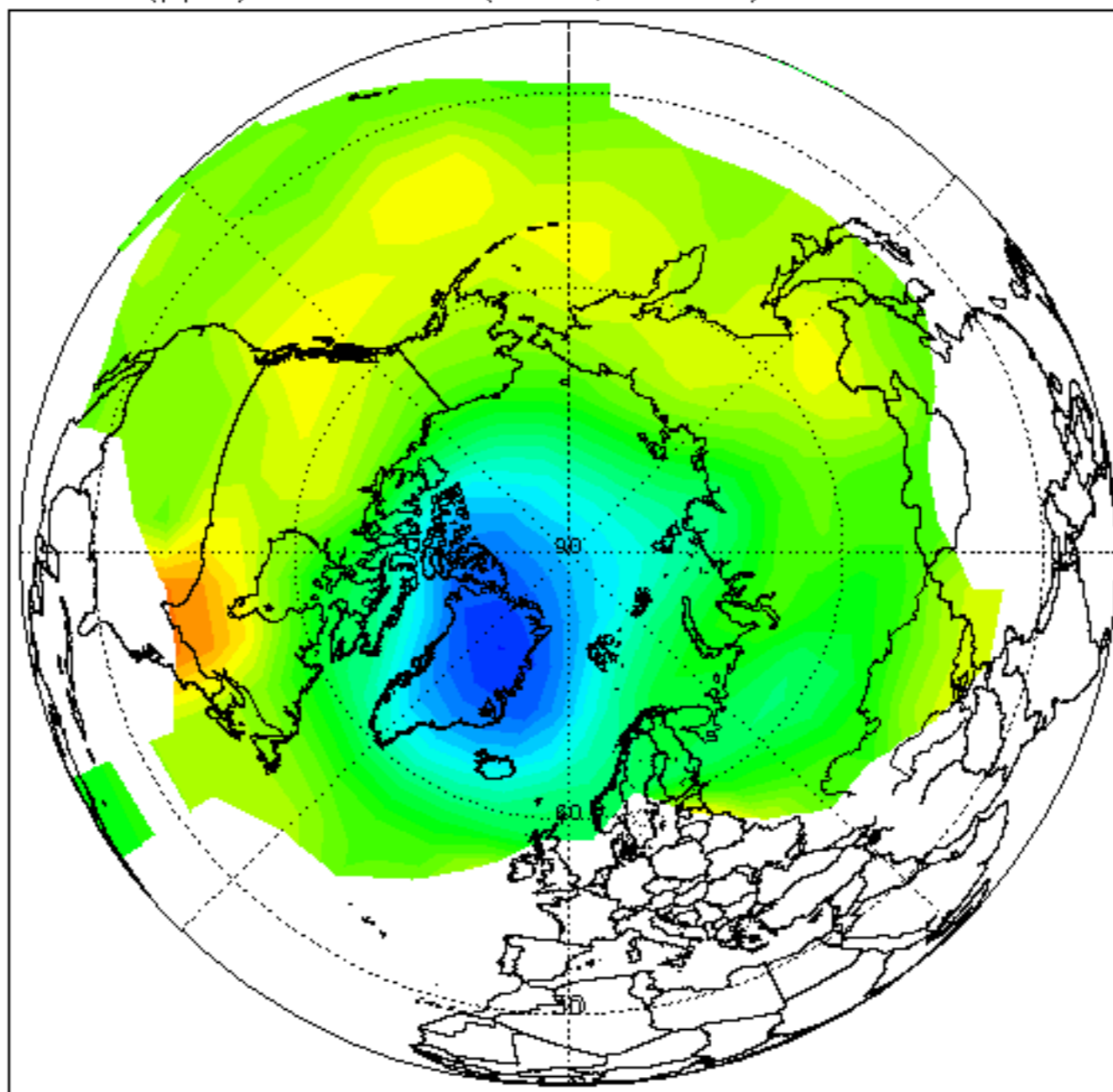
Temp (K) at 1700 K (45km, 1.5hPa). 03-FEB-2012



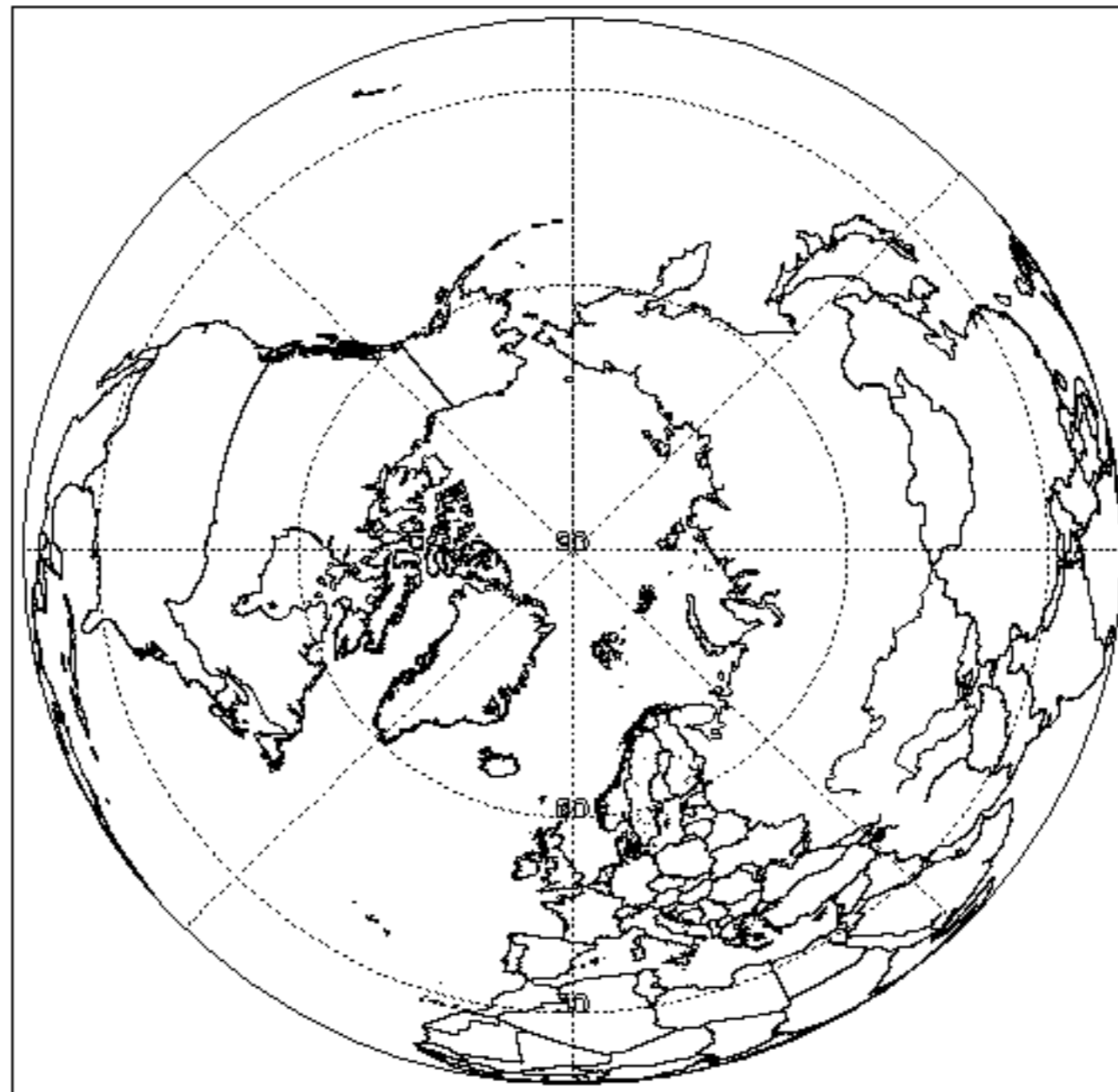
H₂O (ppm) at 1700 K (45km, 1.5hPa). 03-FEB-2012



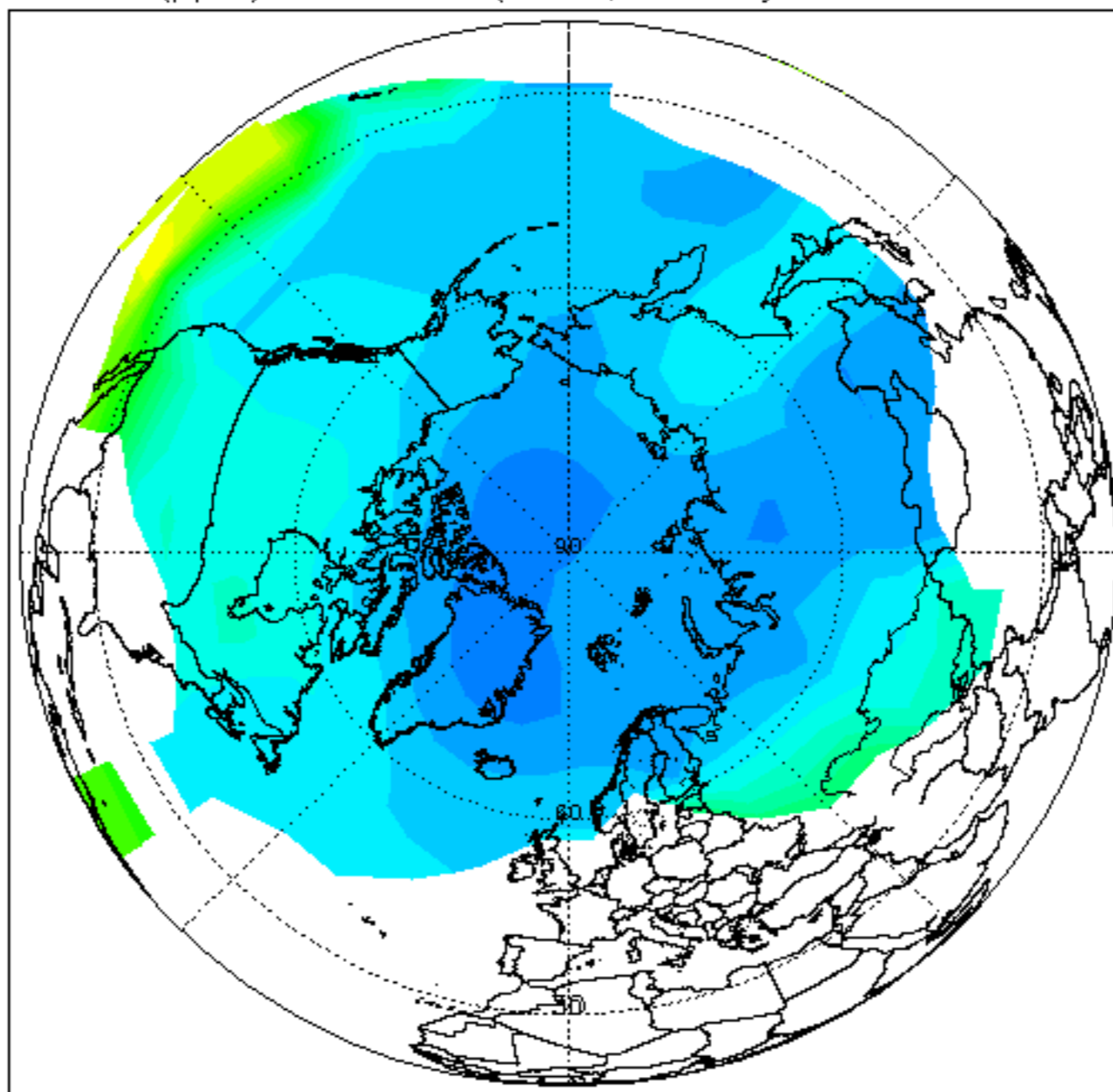
O3 (ppm) at 1700 K (45km, 1.5hPa). 03-FEB-2012



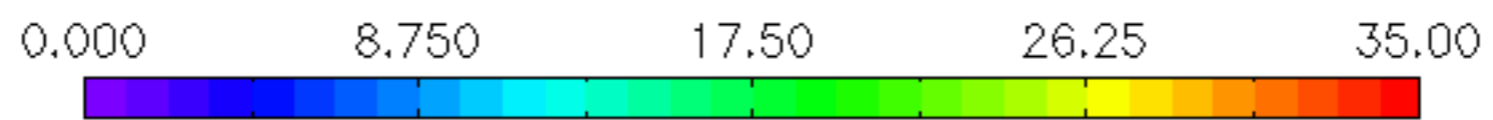
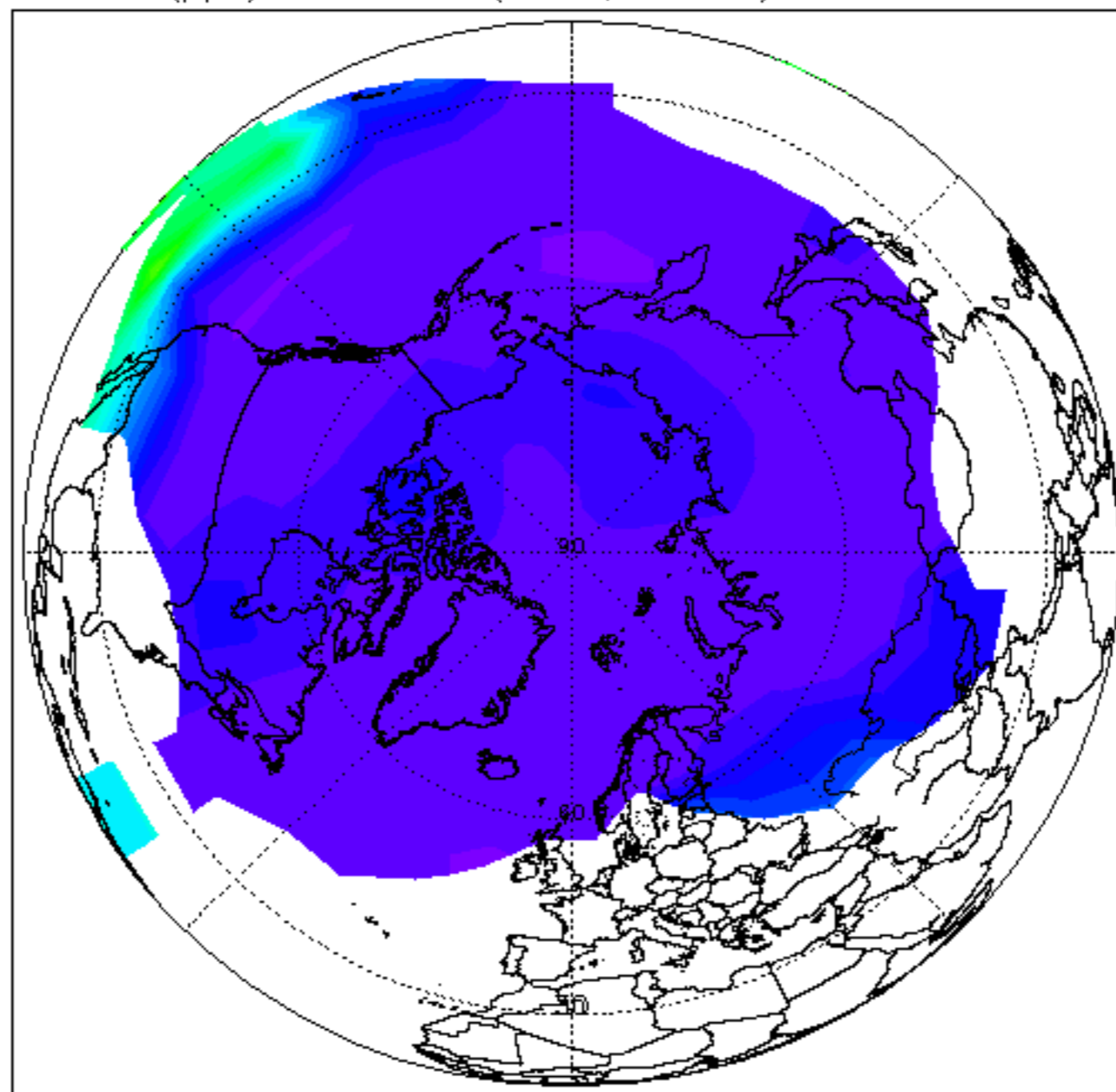
HN03 (ppb) at 1700 K (45km, 1.5hPa). 03-FEB-2012



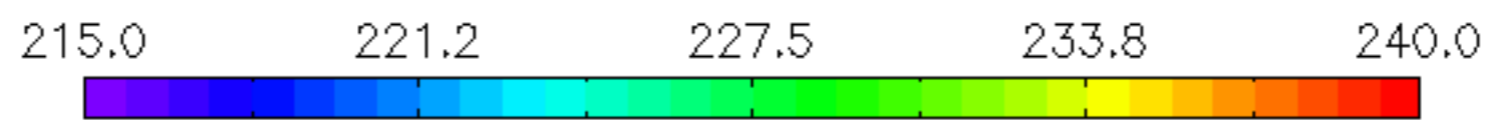
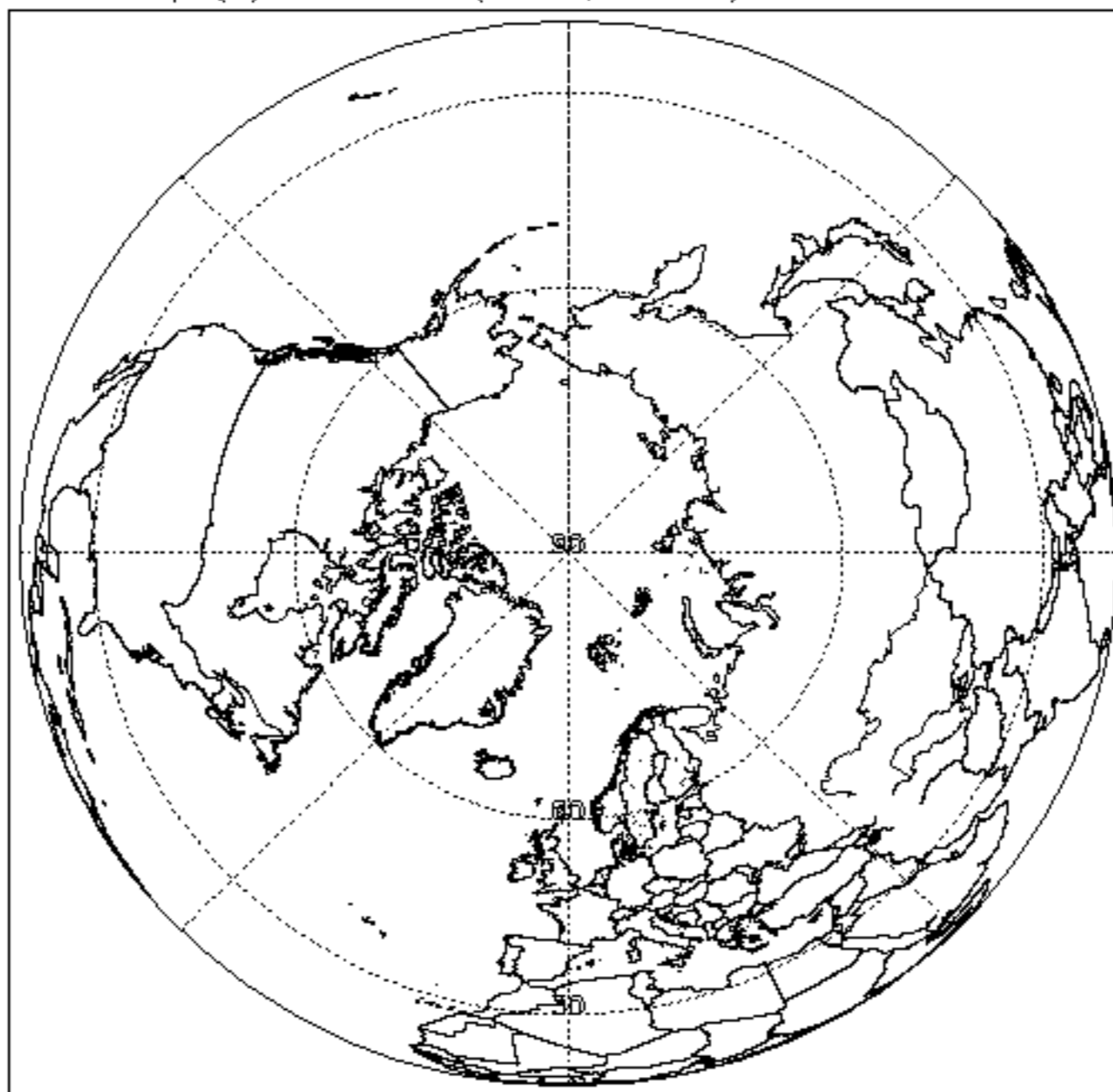
CH₄ (ppm) at 1700 K (45km, 1.5hPa). 03-FEB-2012



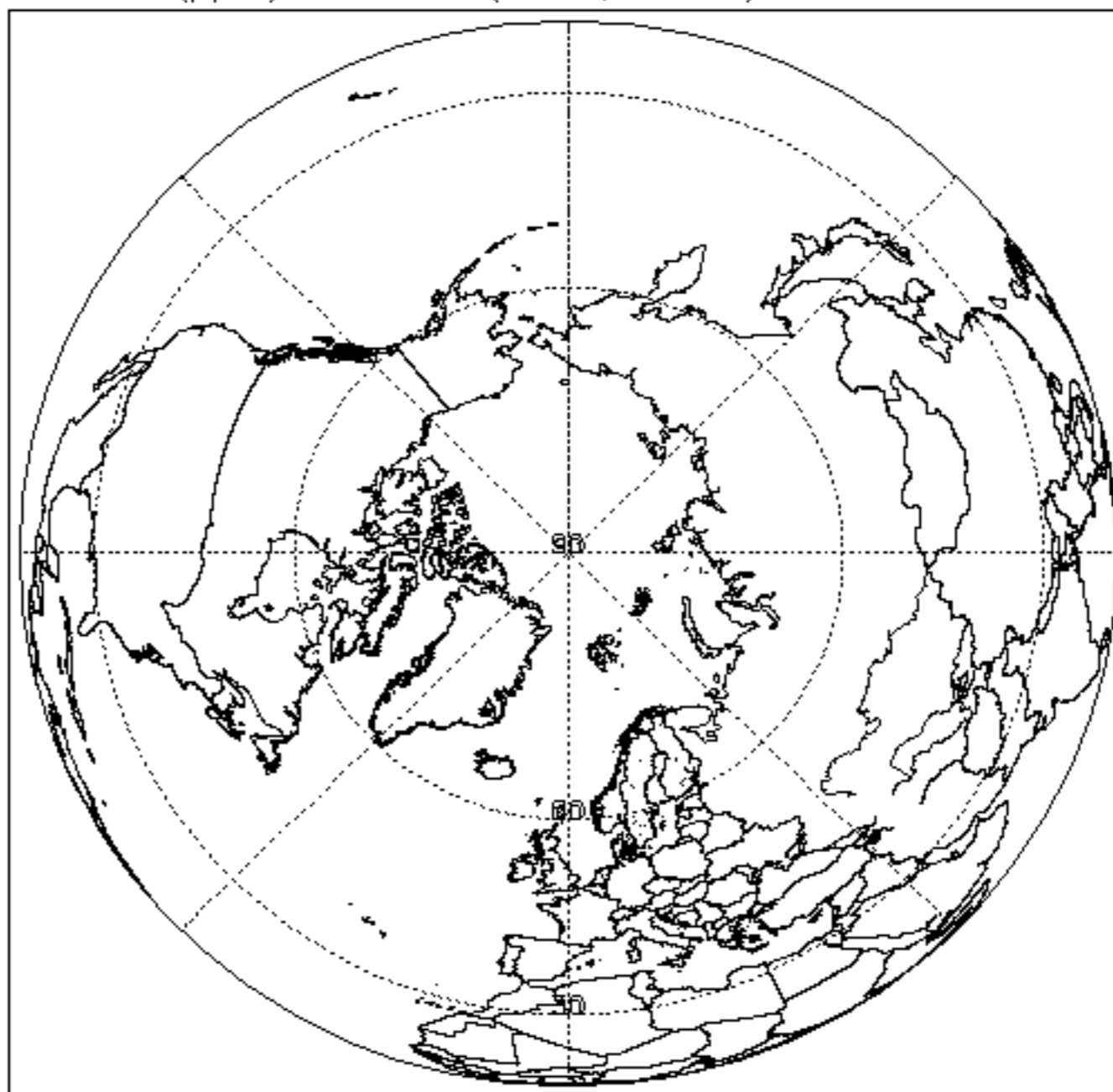
N₂O (ppb) at 1700 K (45km, 1.5hPa). 03-FEB-2012



Temp (K) at 850 K (32km, 10hPa). 03-FEB-2012



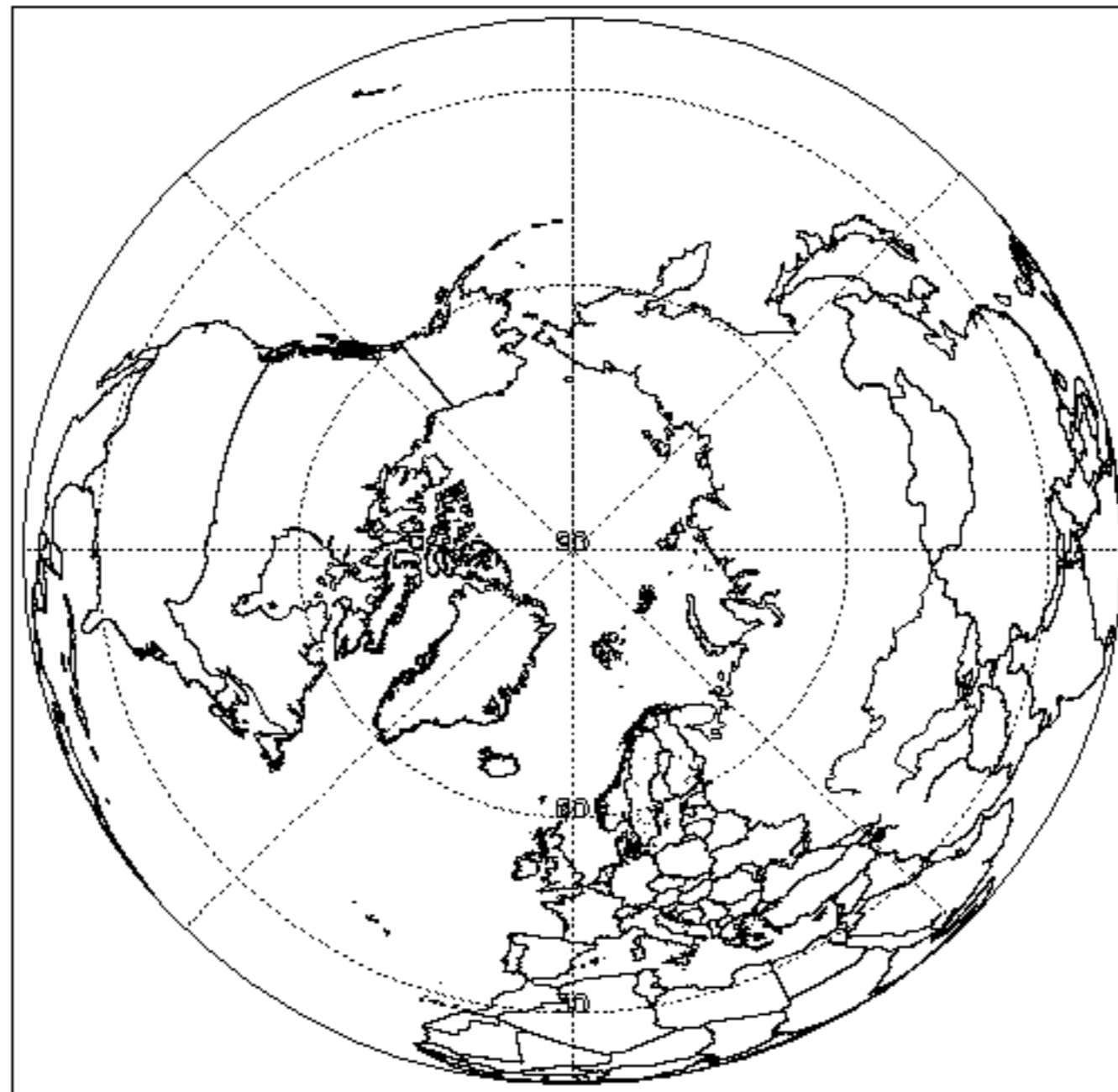
H₂O (ppm) at 850 K (32km, 10hPa). 03-FEB-2012



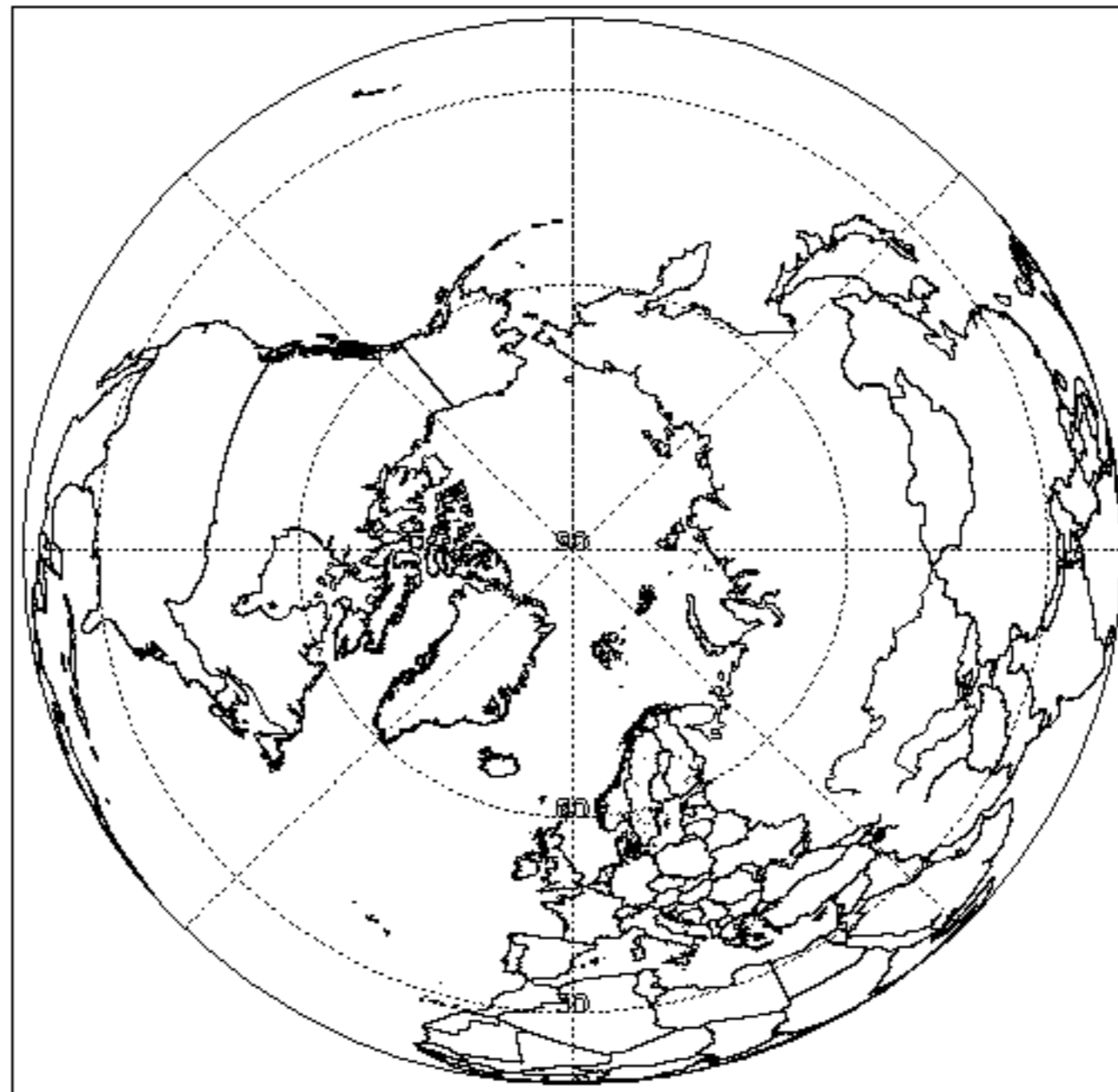
O3 (ppm) at 850 K (32km, 10hPa). 03-FEB-2012



HN03 (ppb) at 850 K (32km, 10hPa). 03-FEB-2012



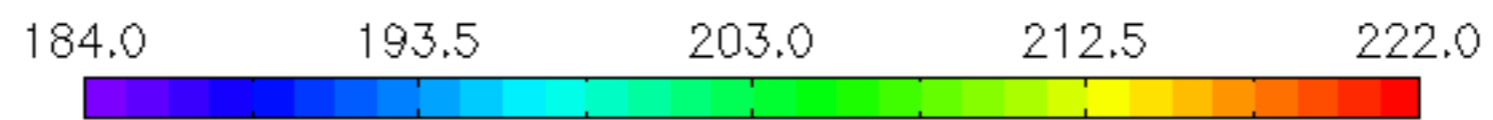
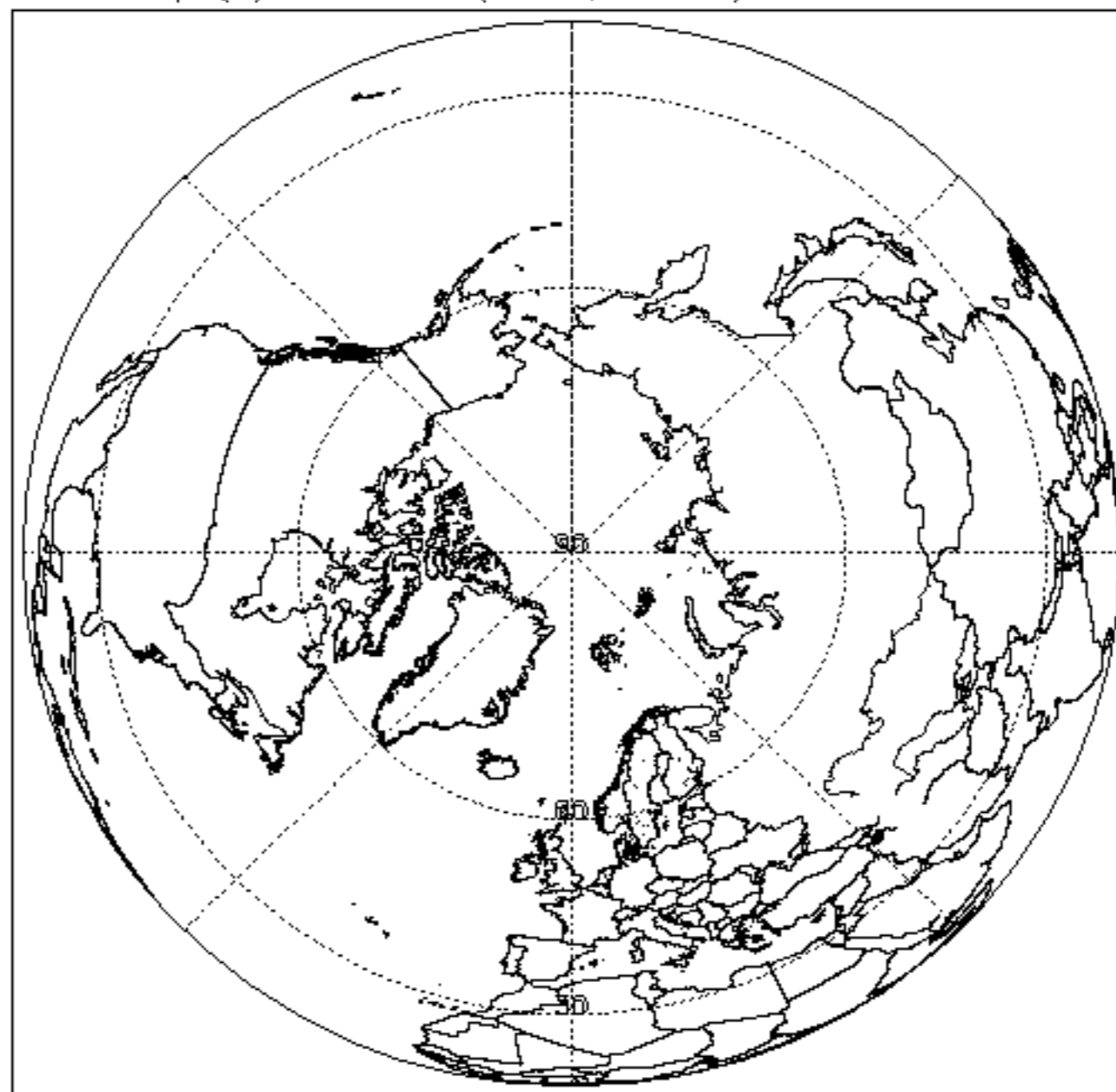
CH₄ (ppm) at 850 K (32km, 10hPa). 03-FEB-2012



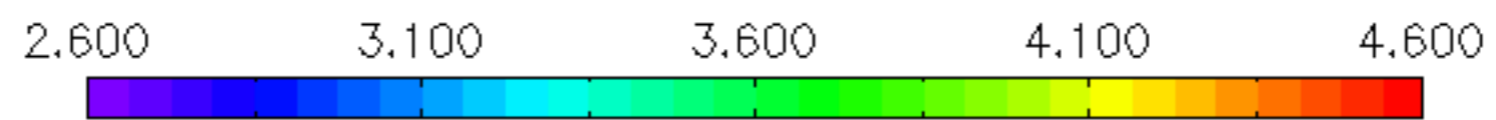
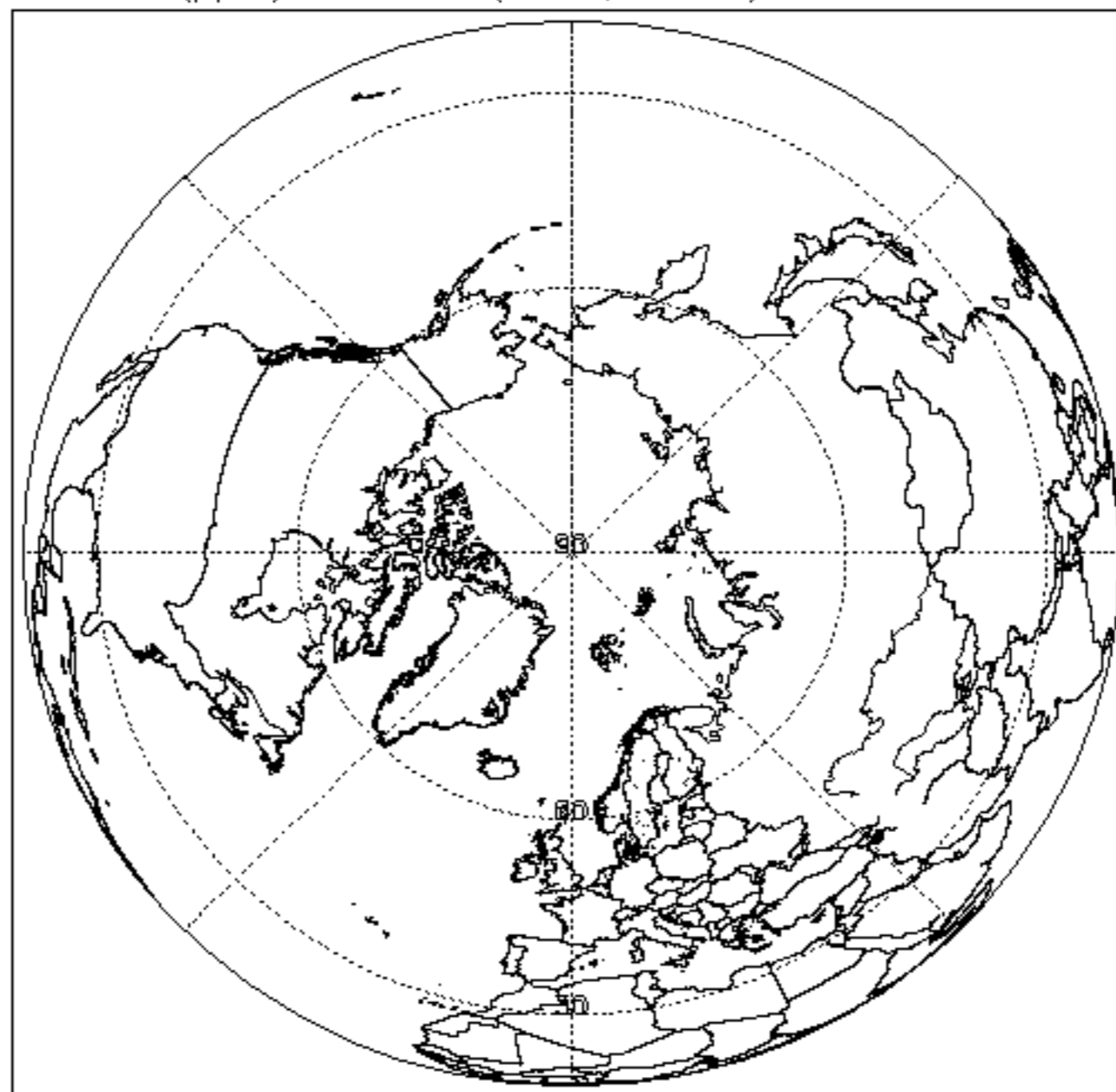
N₂O (ppb) at 850 K (32km, 10hPa). 03-FEB-2012



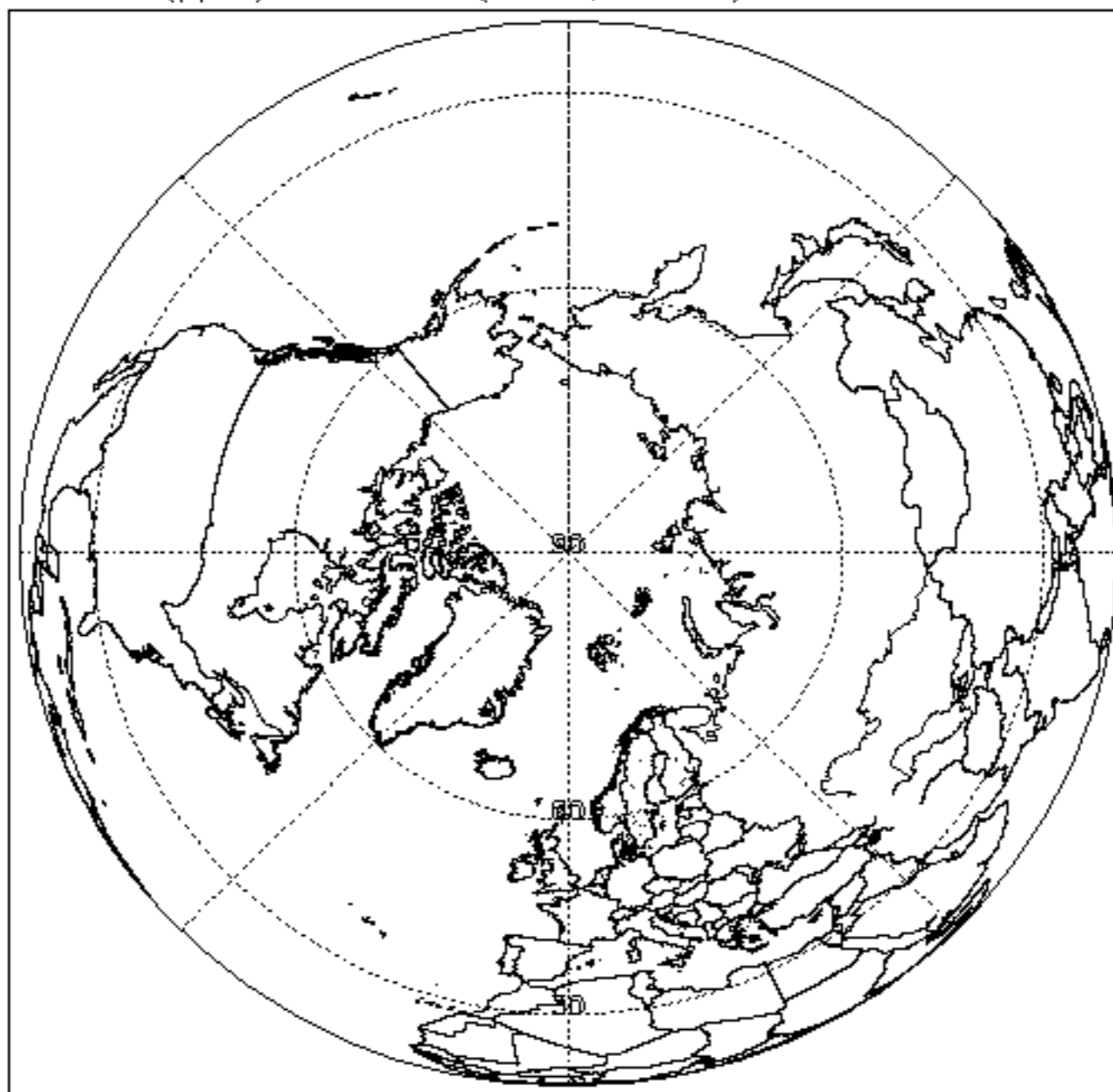
Temp (K) at 490 K (19km, 55hPa). 03-FEB-2012



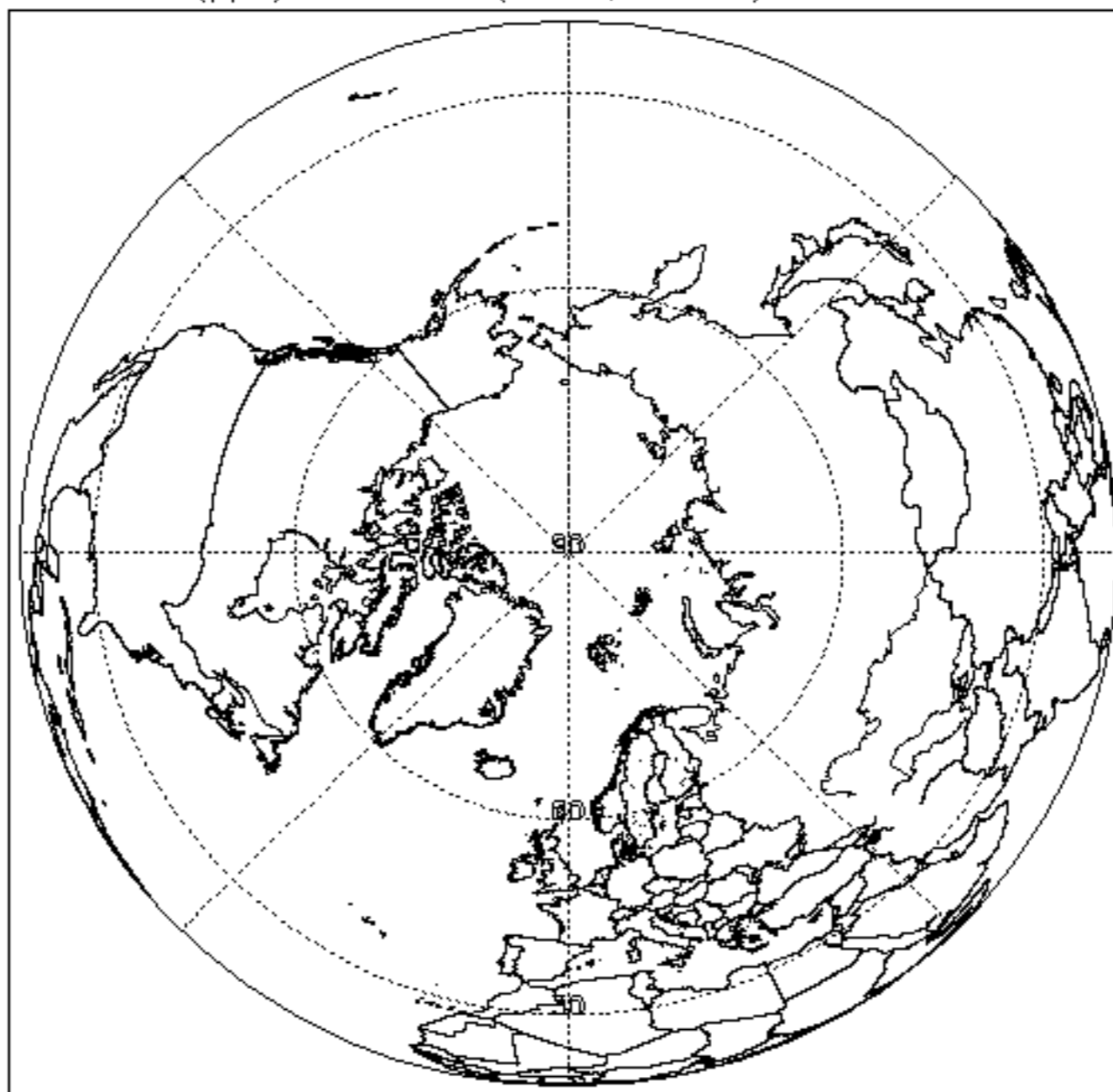
H₂O (ppm) at 490 K (19km, 55hPa). 03-FEB-2012



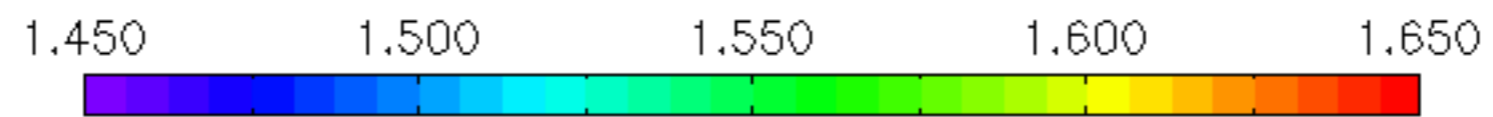
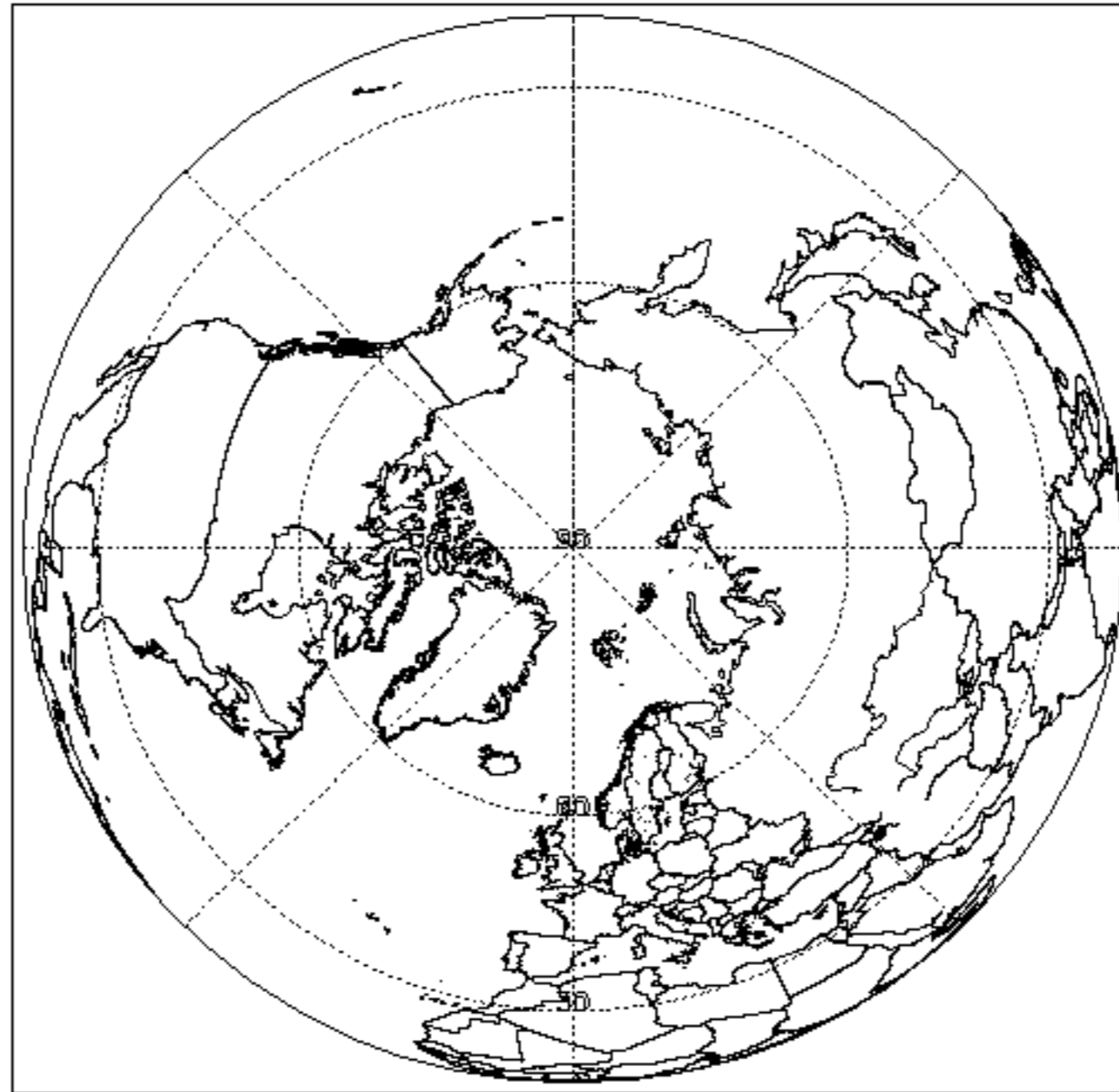
O3 (ppm) at 490 K (19km, 55hPa). 03-FEB-2012



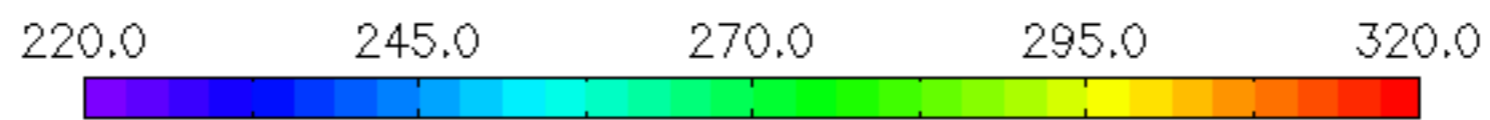
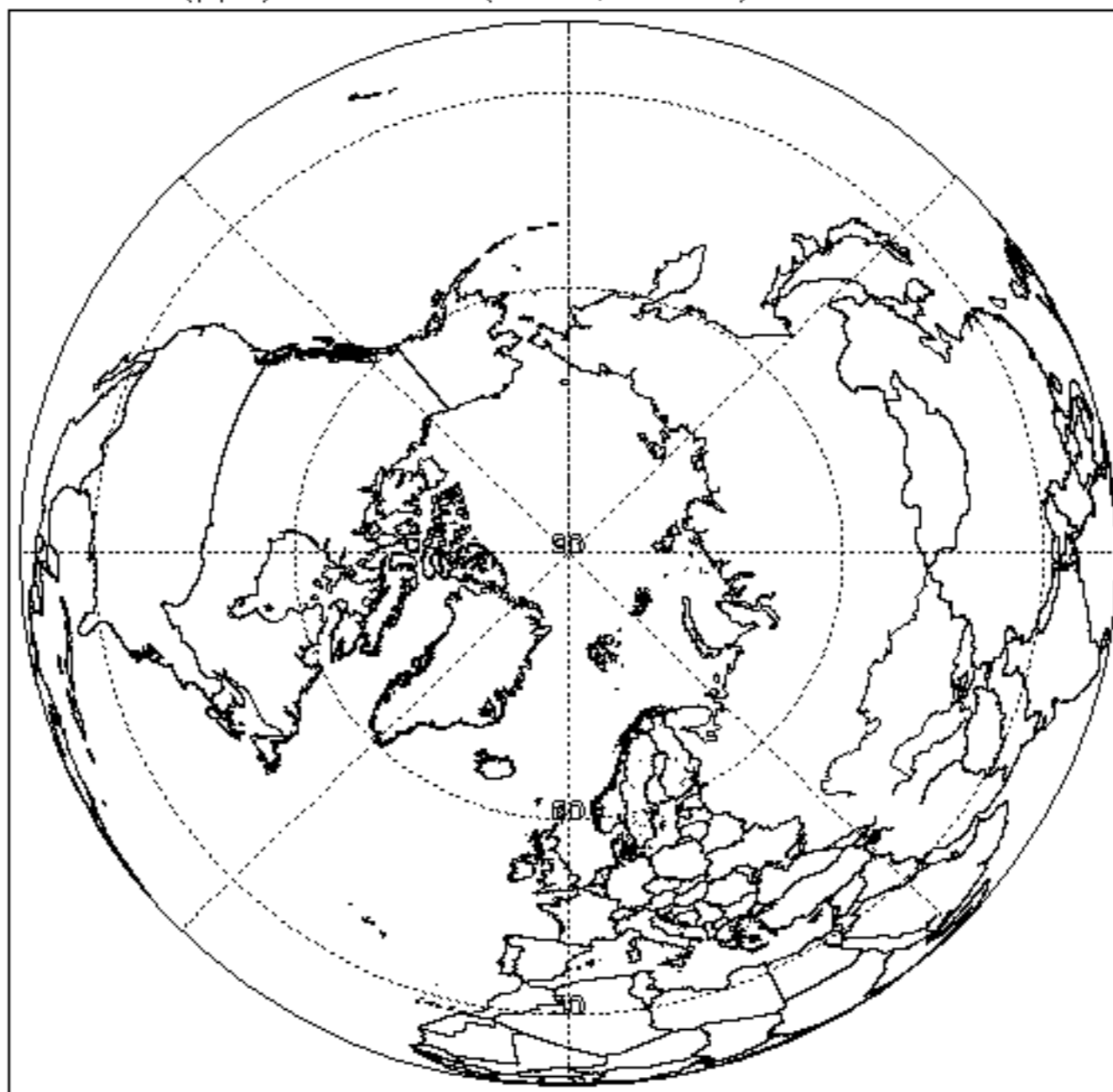
HN03 (ppb) at 490 K (19km, 55hPa). 03-FEB-2012



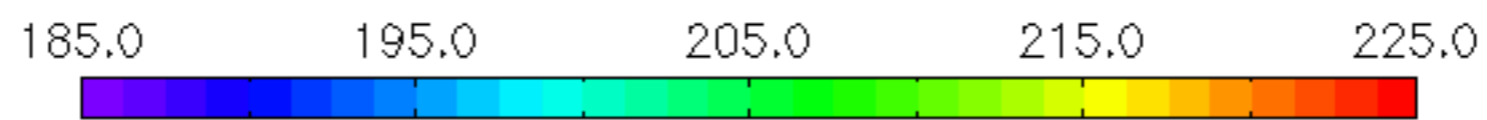
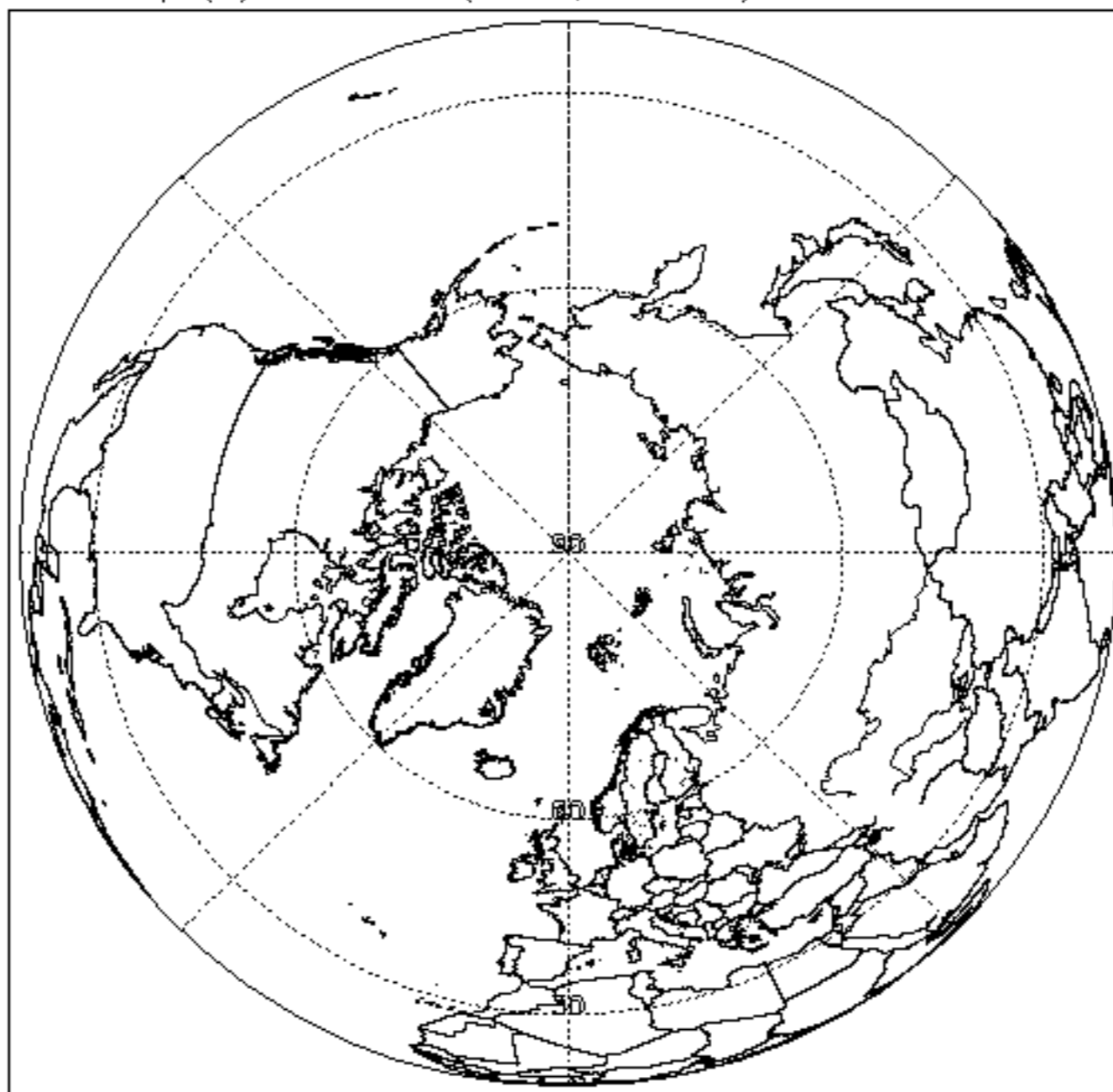
CH₄ (ppm) at 490 K (19km, 55hPa). 03-FEB-2012



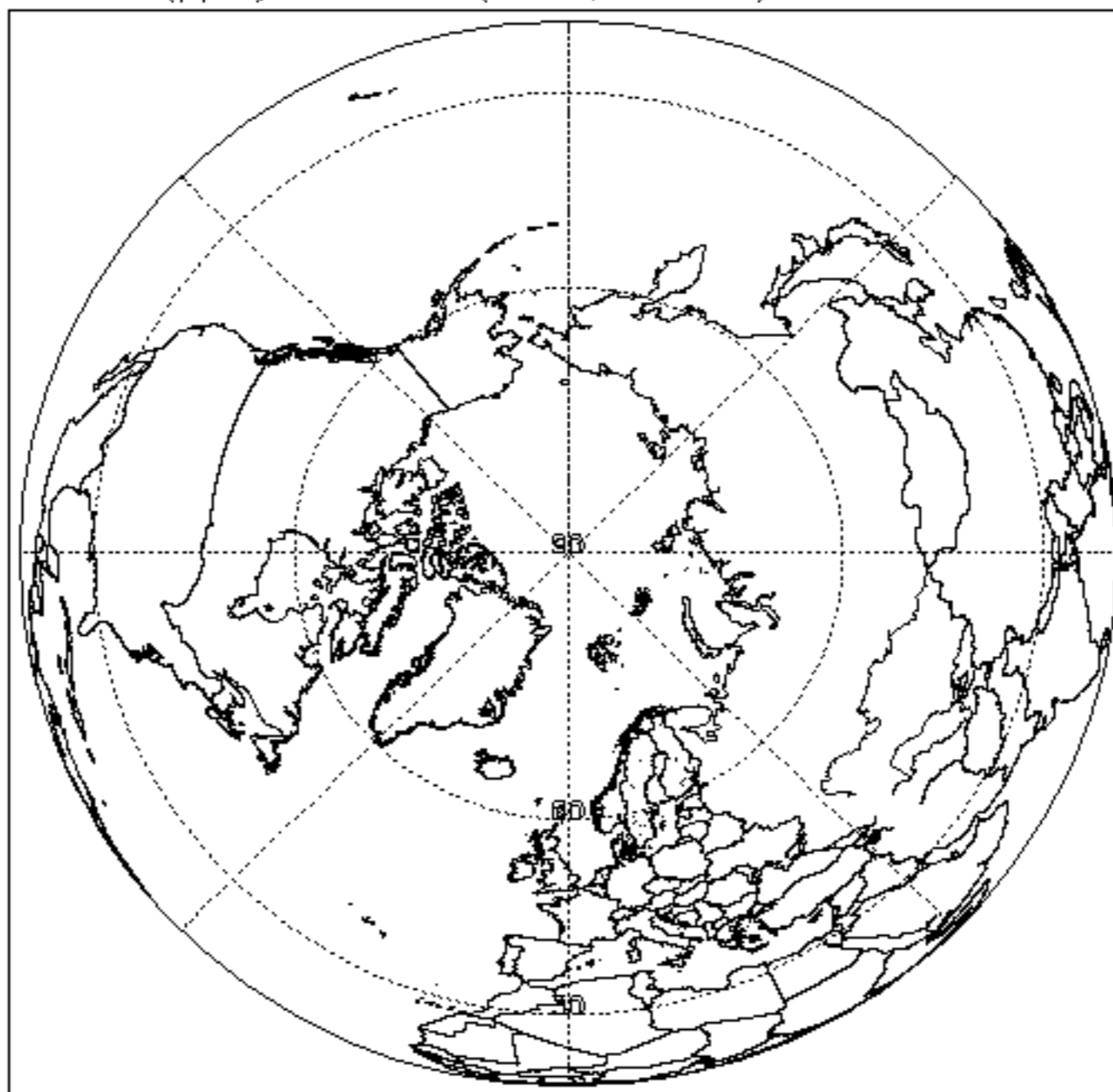
N₂O (ppb) at 490 K (19km, 55hPa). 03-FEB-2012



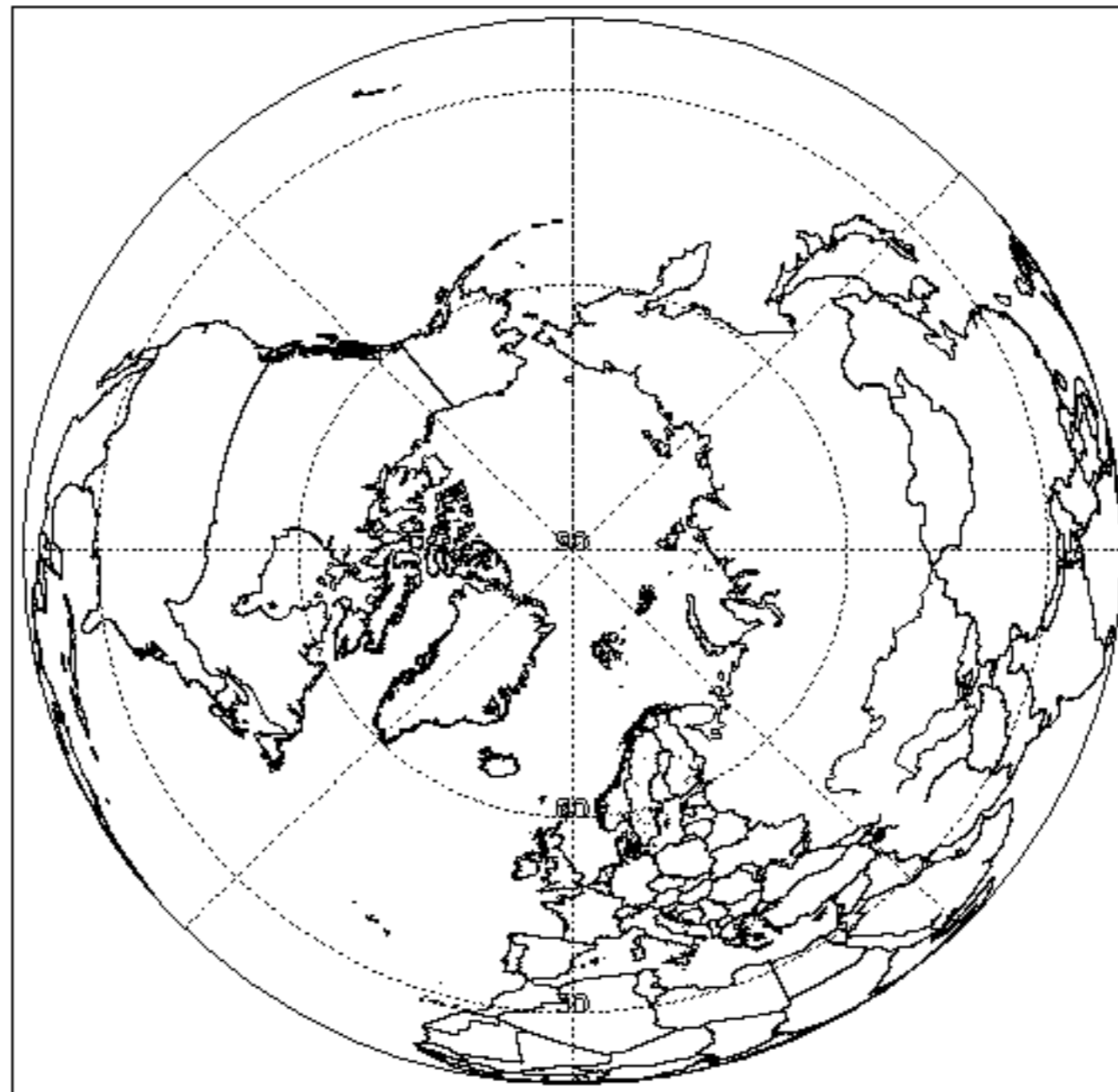
Temp (K) at 410 K (16km, 100hPa). 03-FEB-2012



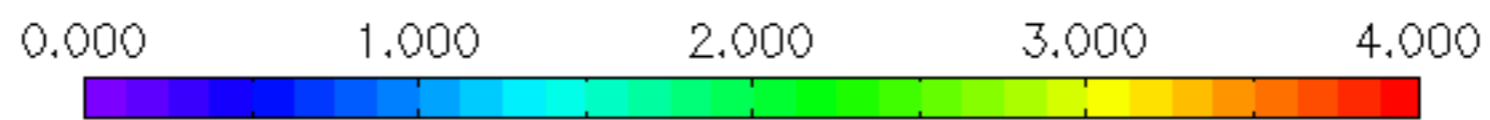
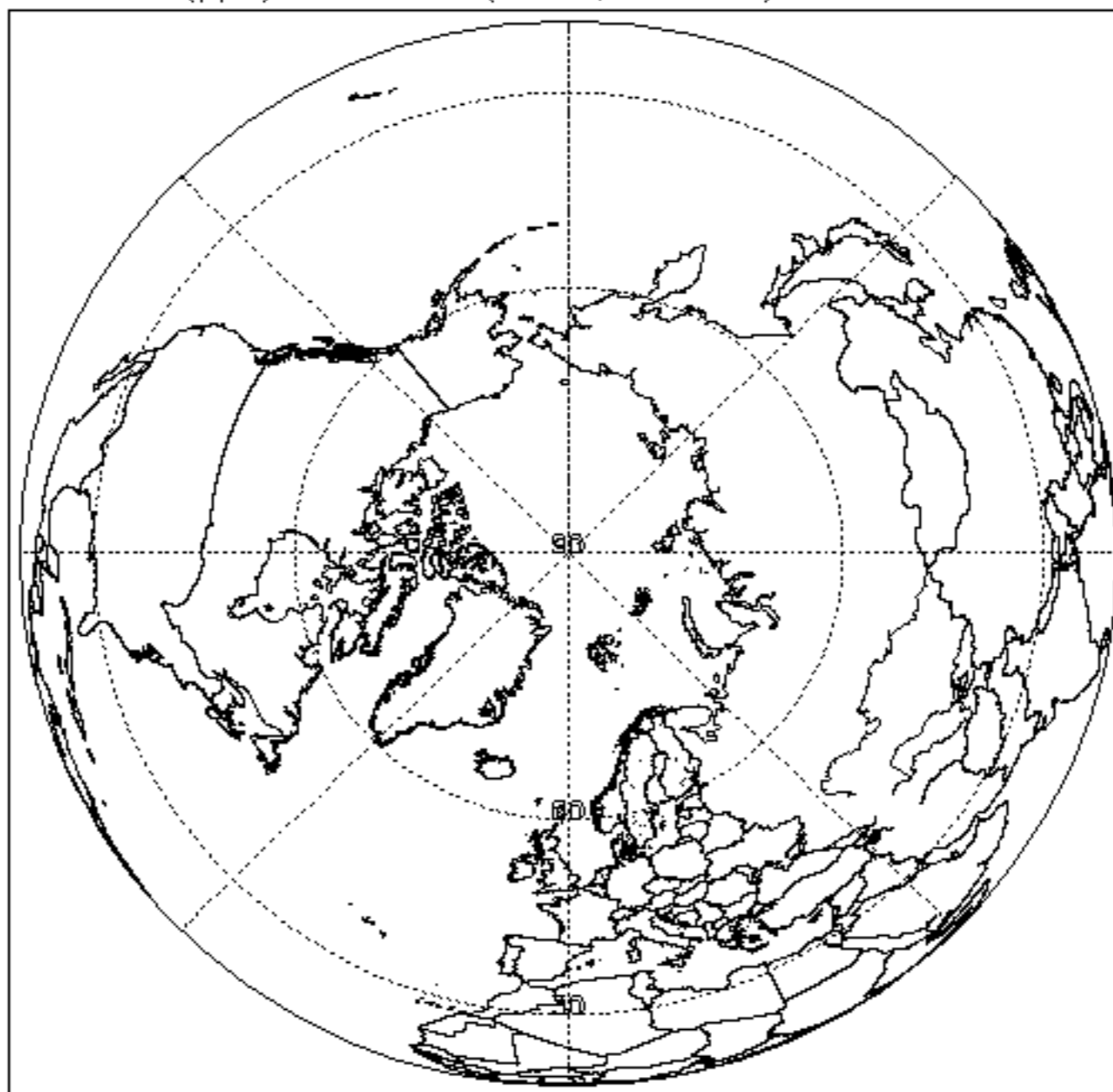
H₂O (ppm) at 410 K (16km, 100hPa). 03-FEB-2012



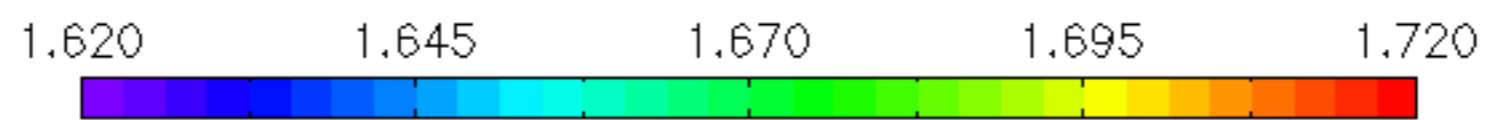
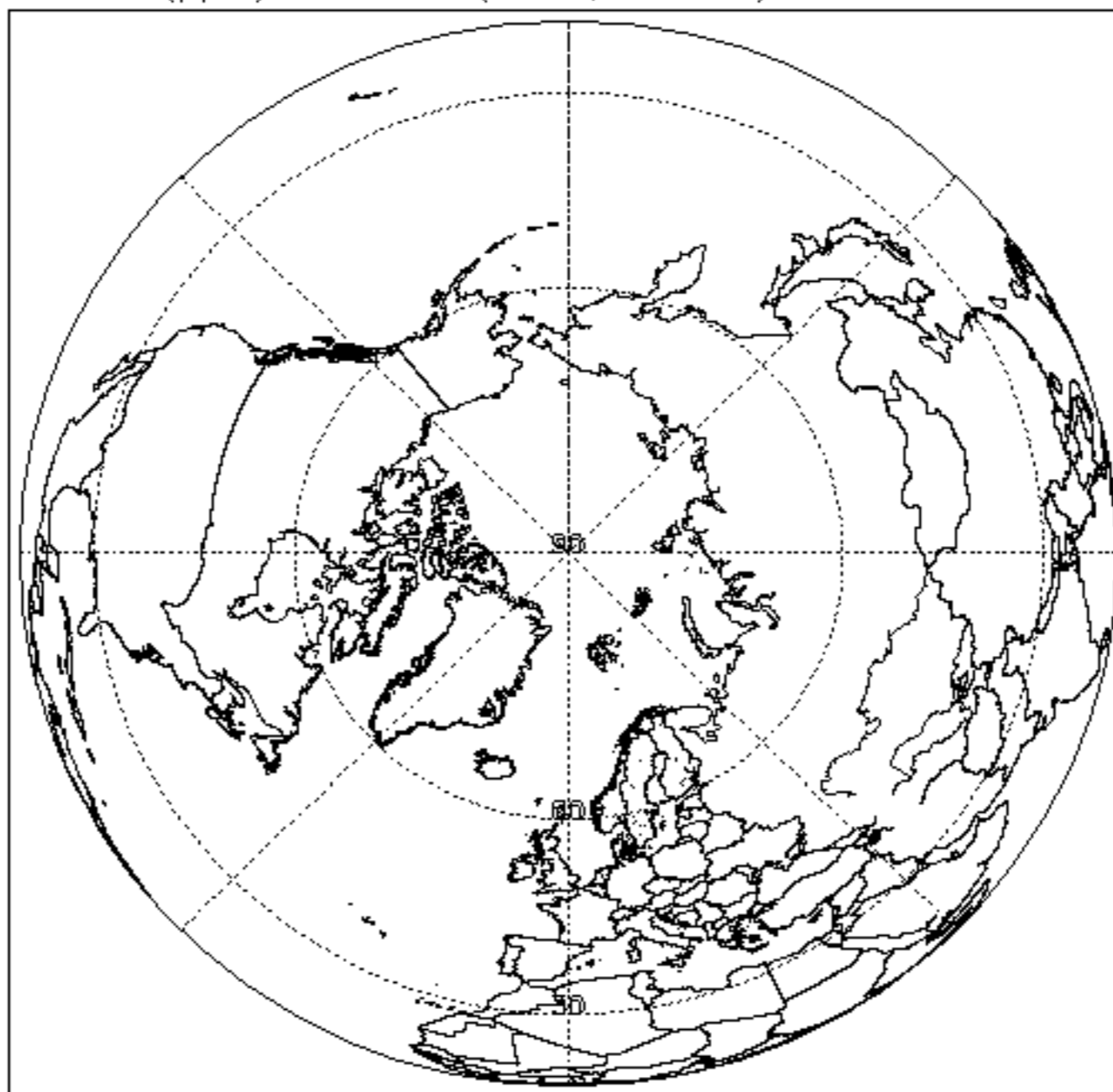
O3 (ppm) at 410 K (16km, 100hPa). 03-FEB-2012



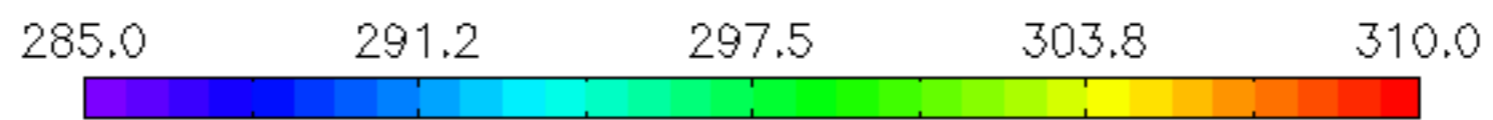
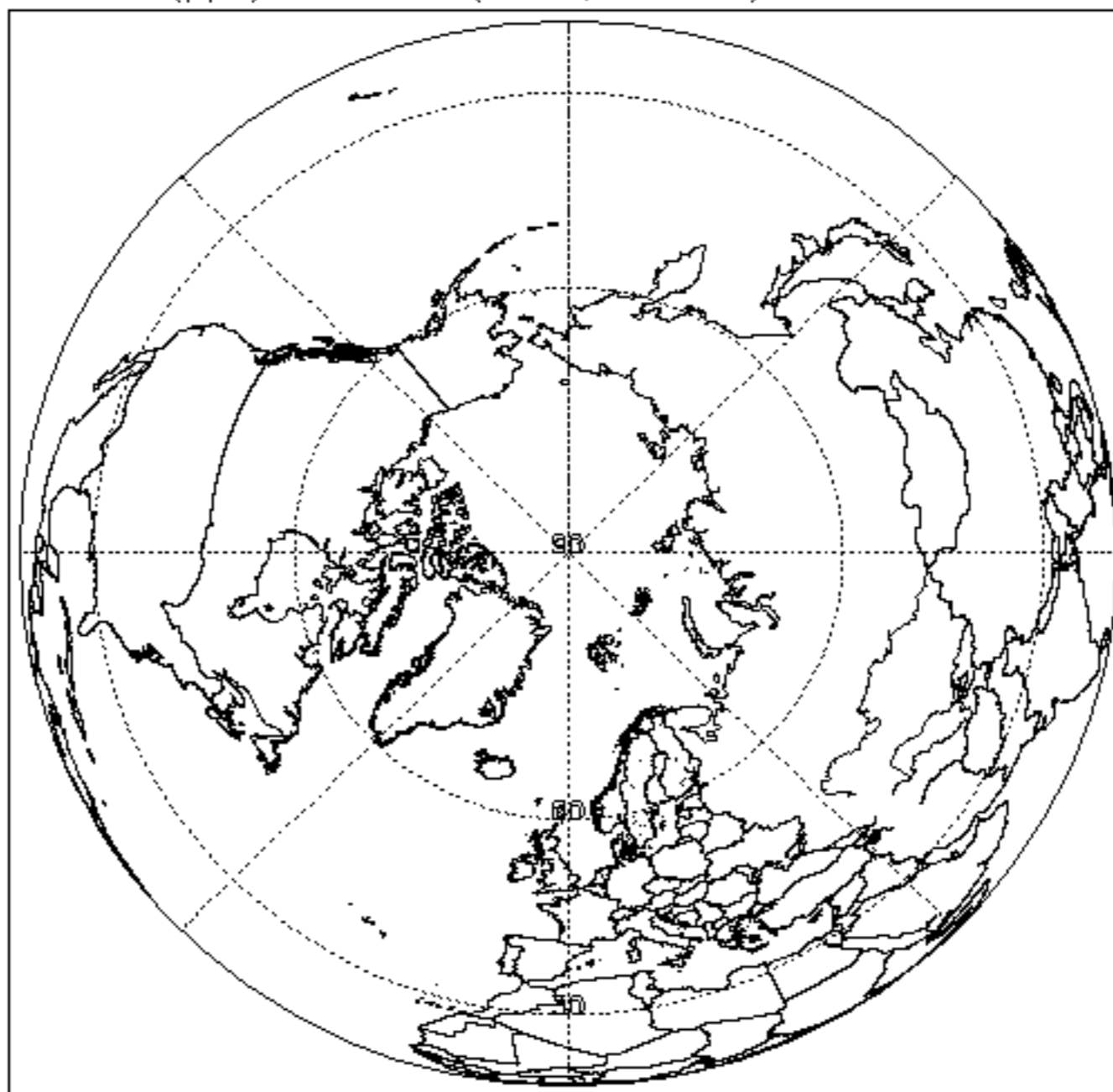
HNO₃ (ppb) at 410 K (16km, 100hPa). 03-FEB-2012



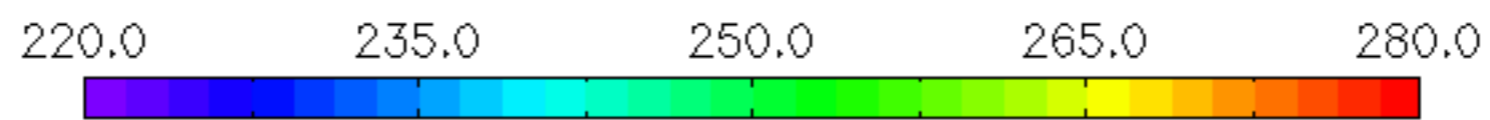
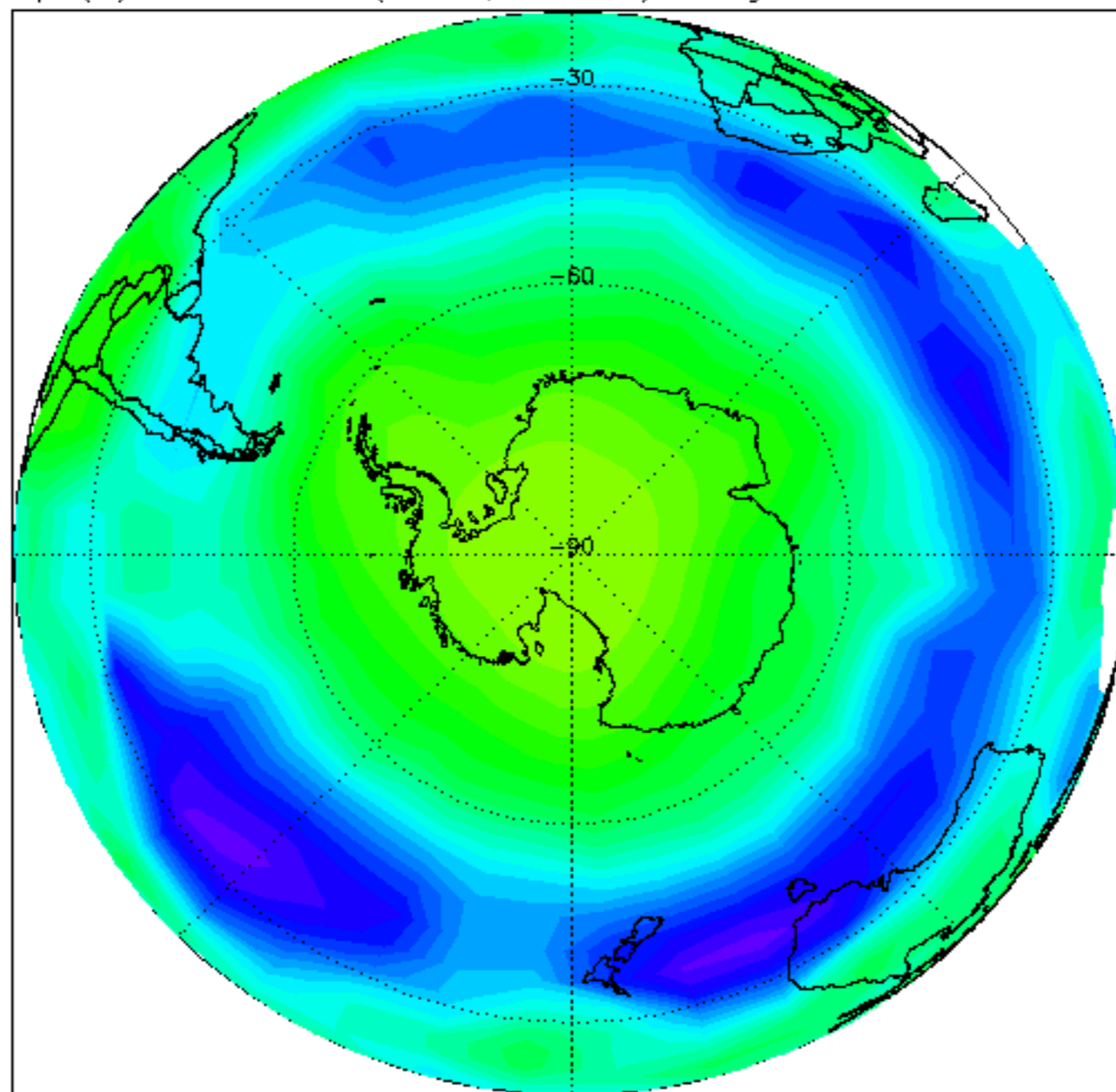
CH₄ (ppm) at 410 K (16km, 100hPa). 03-FEB-2012



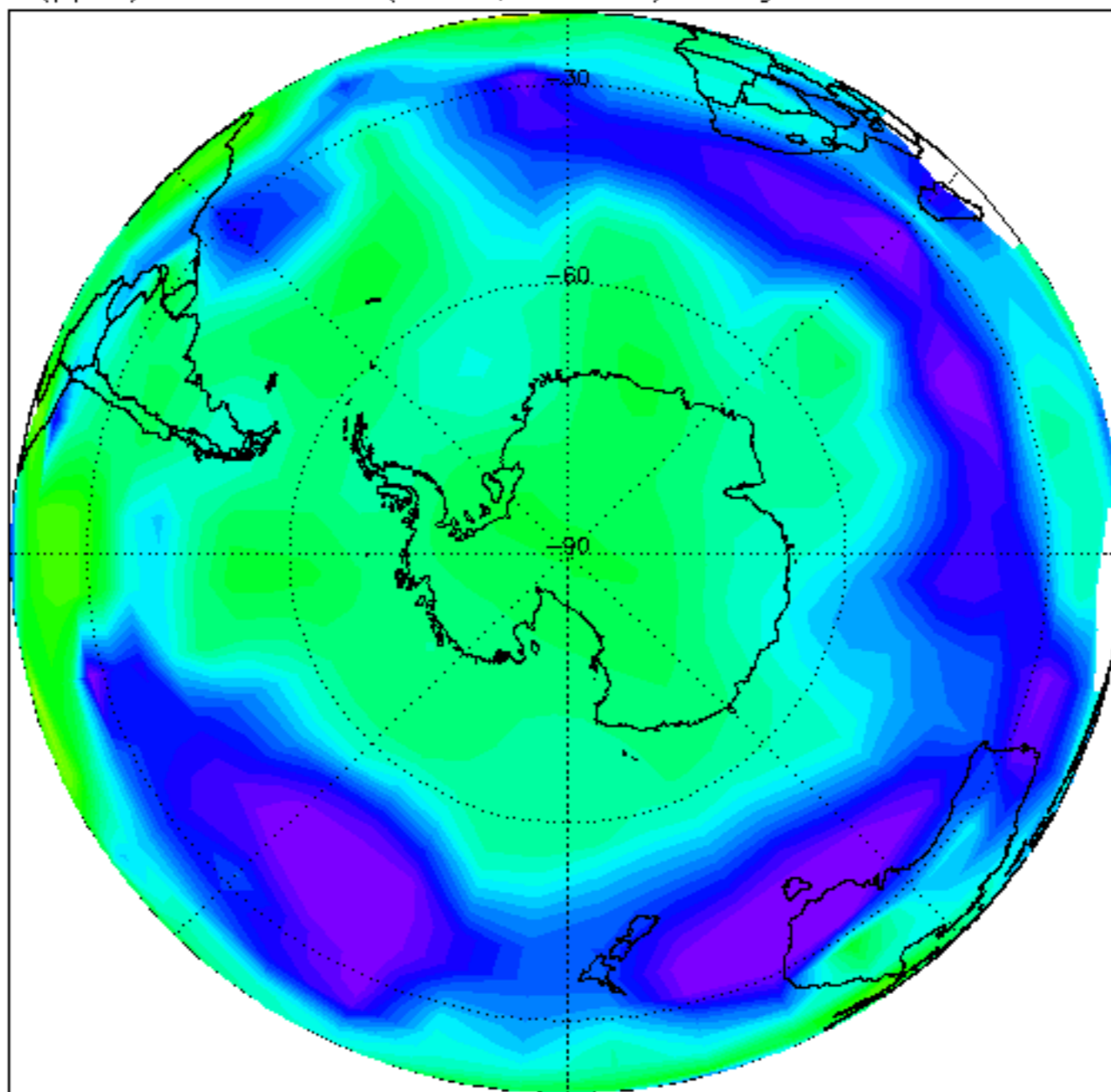
N2O (ppb) at 410 K (16km, 100hPa). 03-FEB-2012



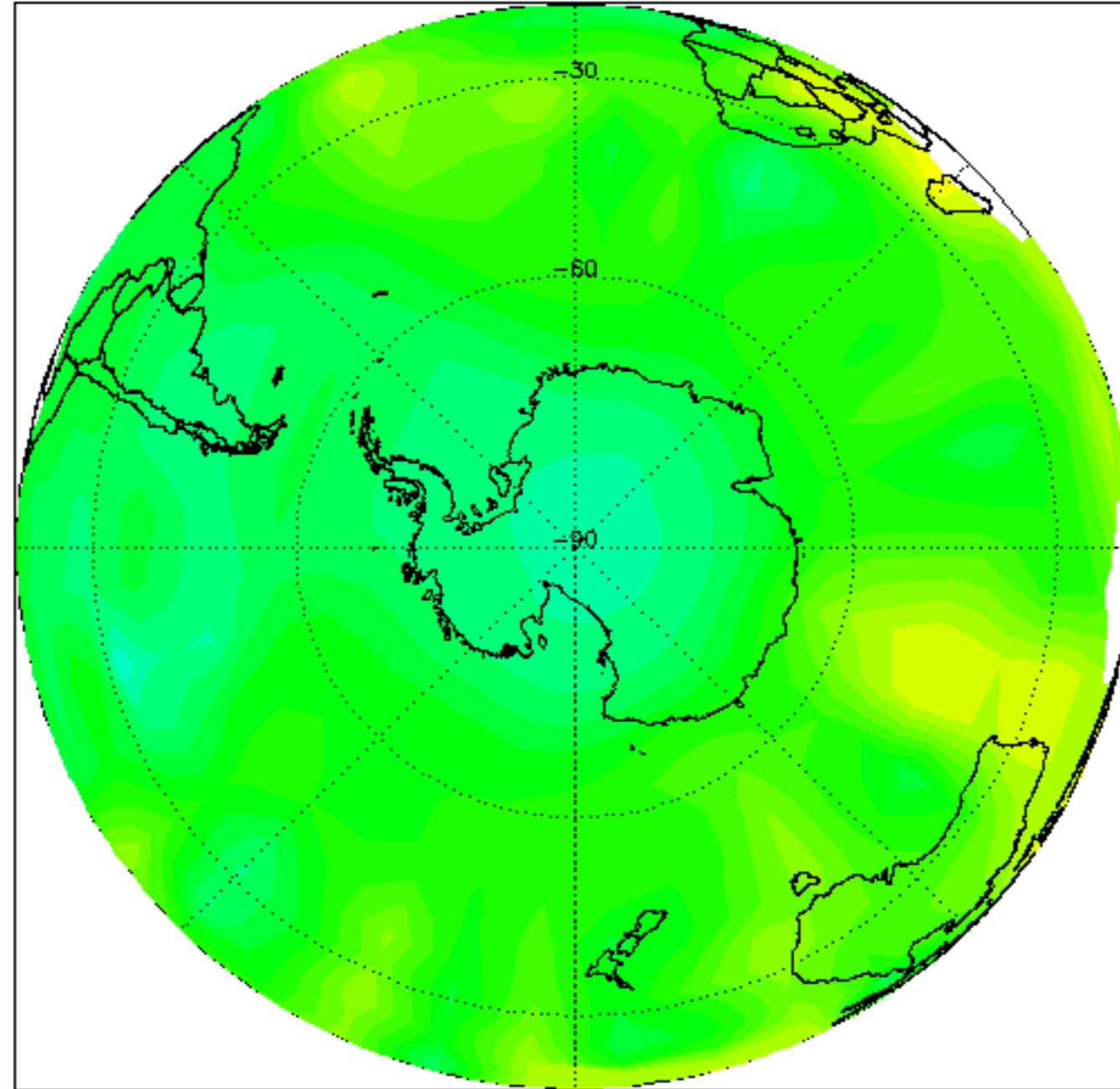
Temp (K) at: 2700 K (60km, 0.2hPa). Daily mean: 03-FEB-2012



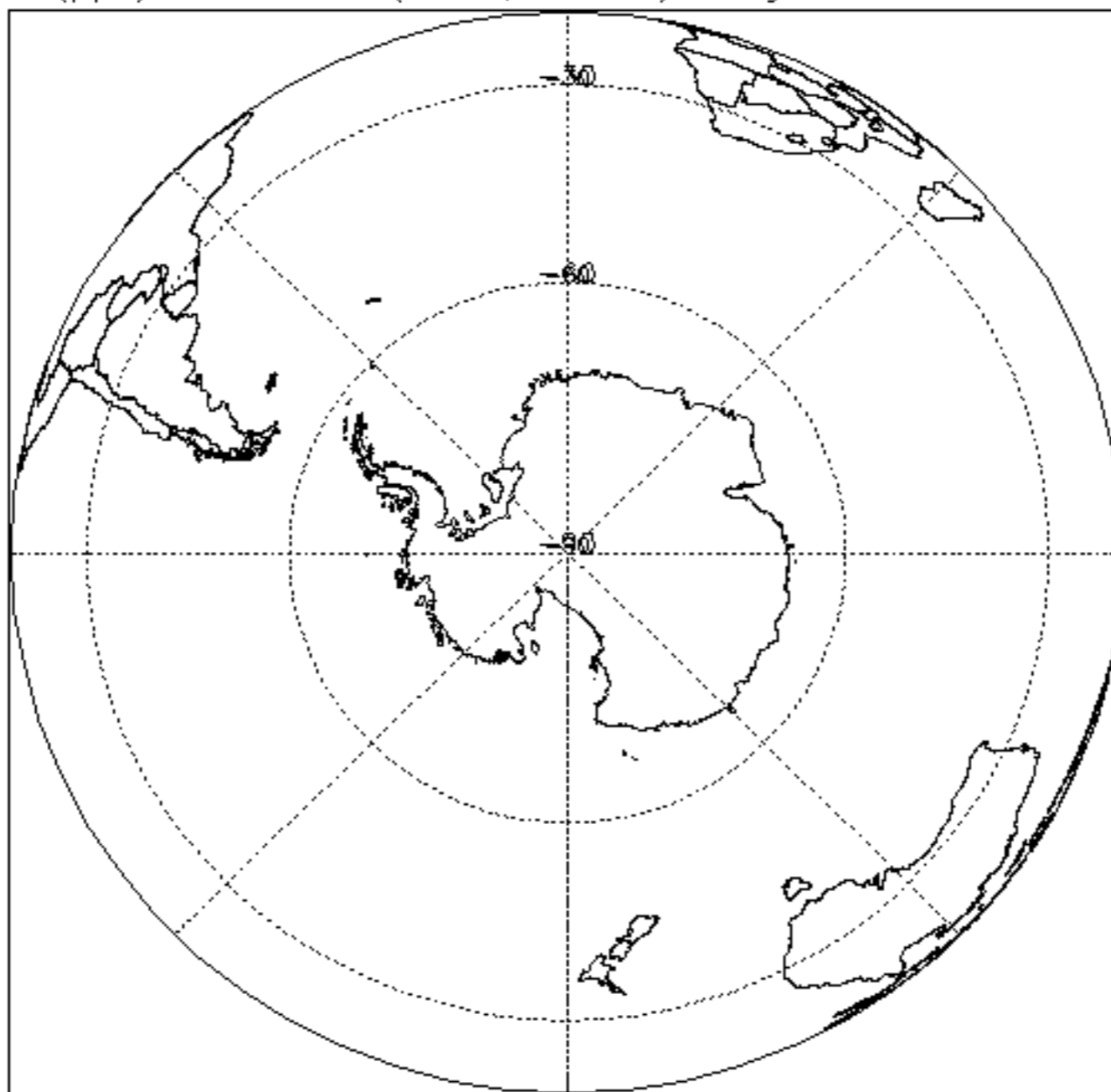
H₂O (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 03-FEB-2012



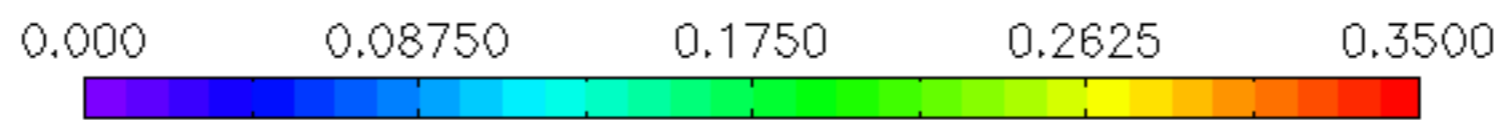
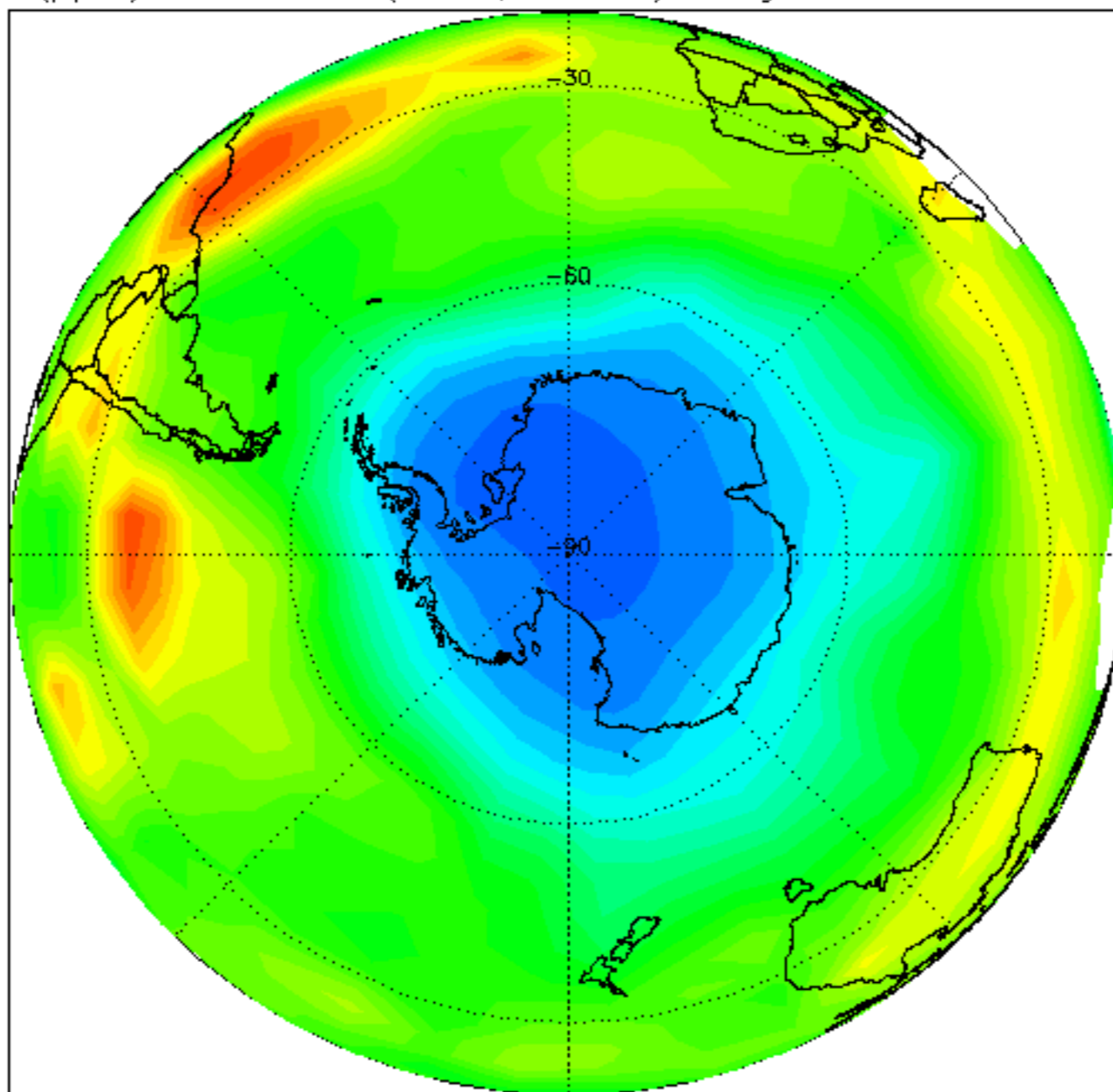
O₃ (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 03-FEB-2012



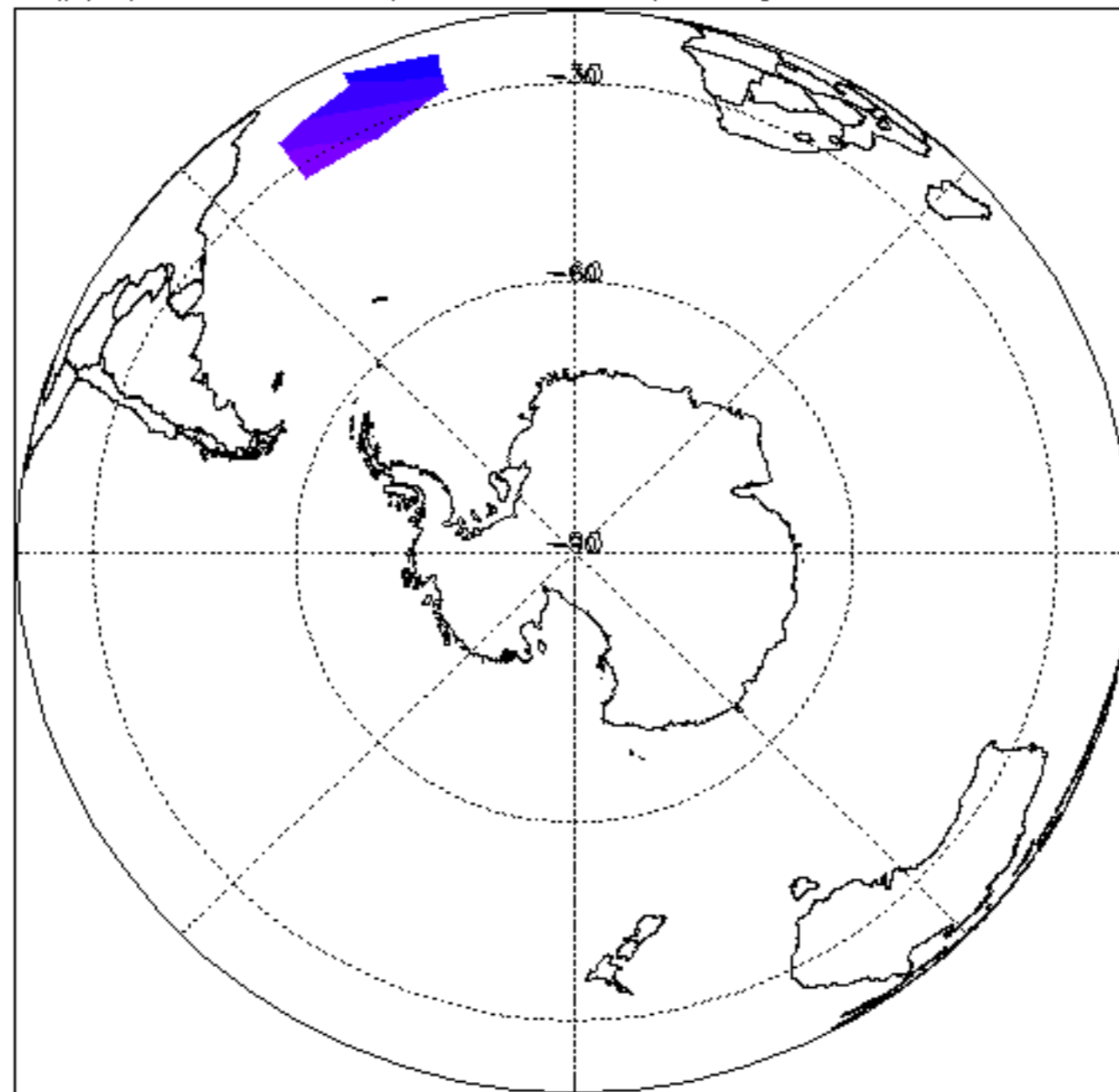
HN03 (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 03-FEB-2012



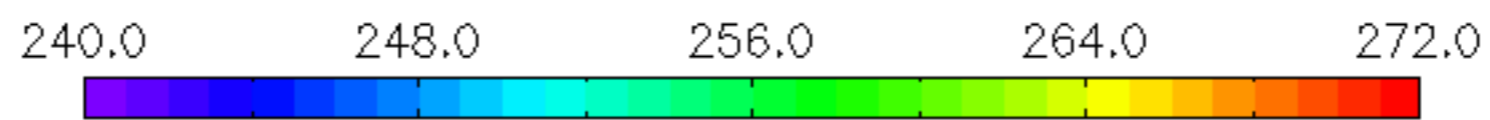
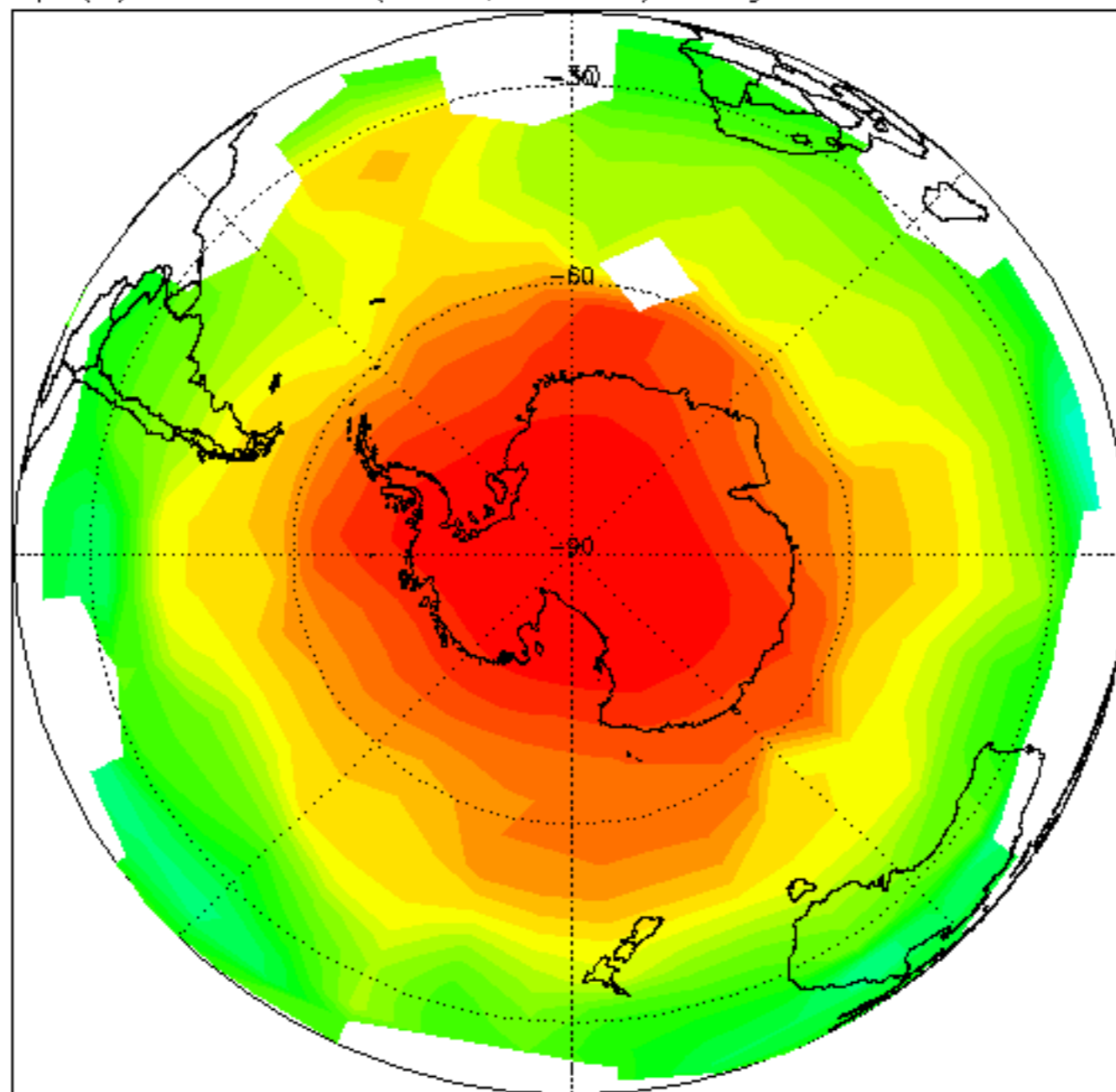
CH₄ (ppm) at: 2700 K (60km, 0.2hPa). Daily mean: 03-FEB-2012



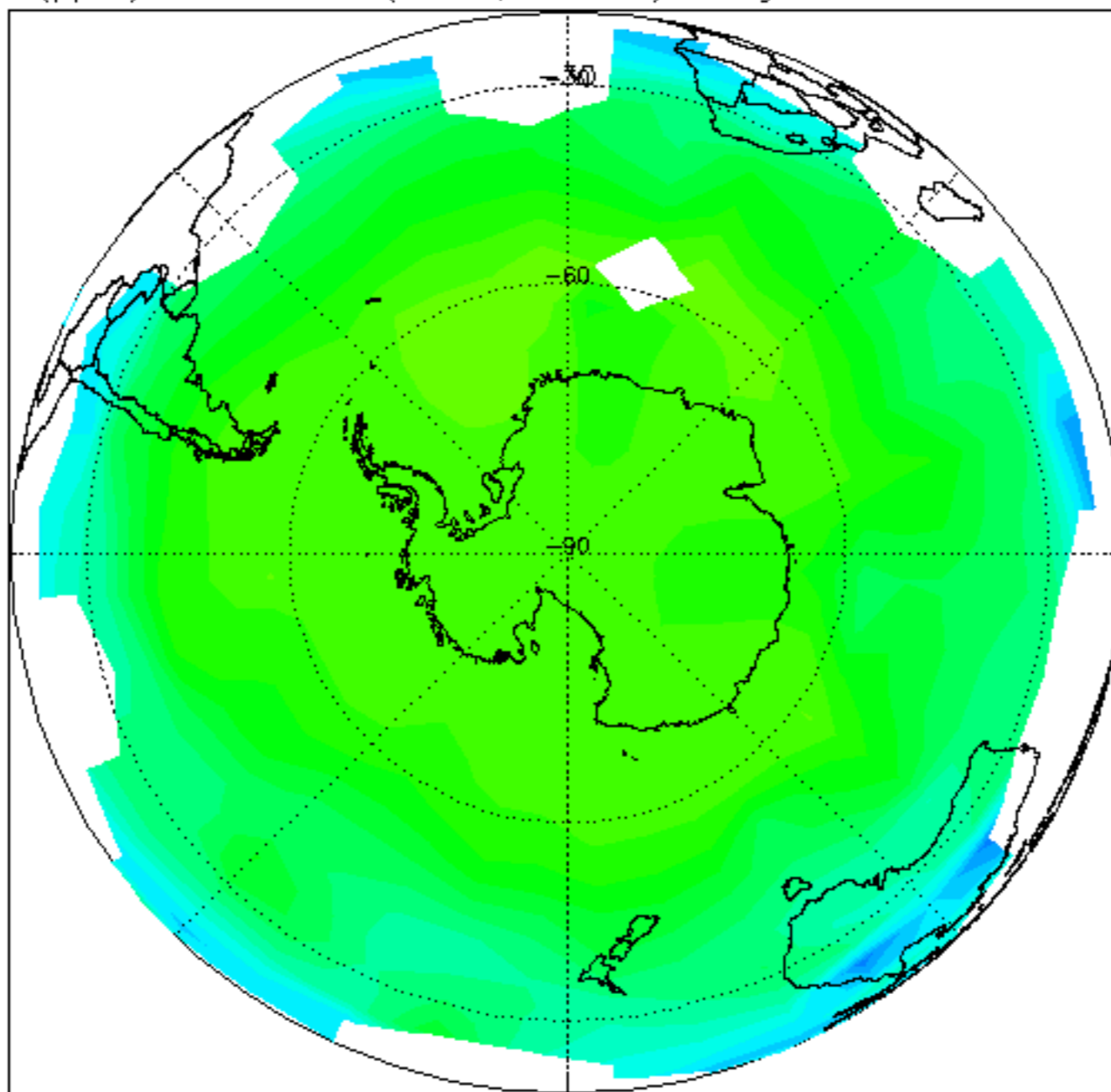
N20 (ppb) at: 2700 K (60km, 0.2hPa). Daily mean: 03-FEB-2012



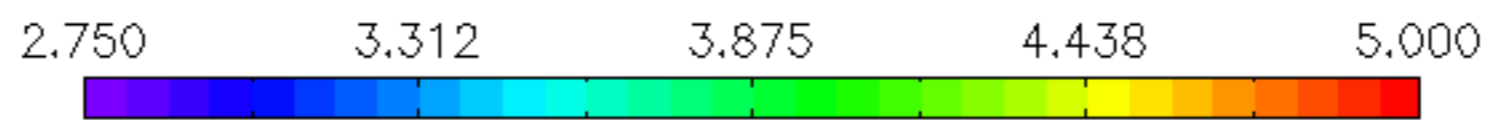
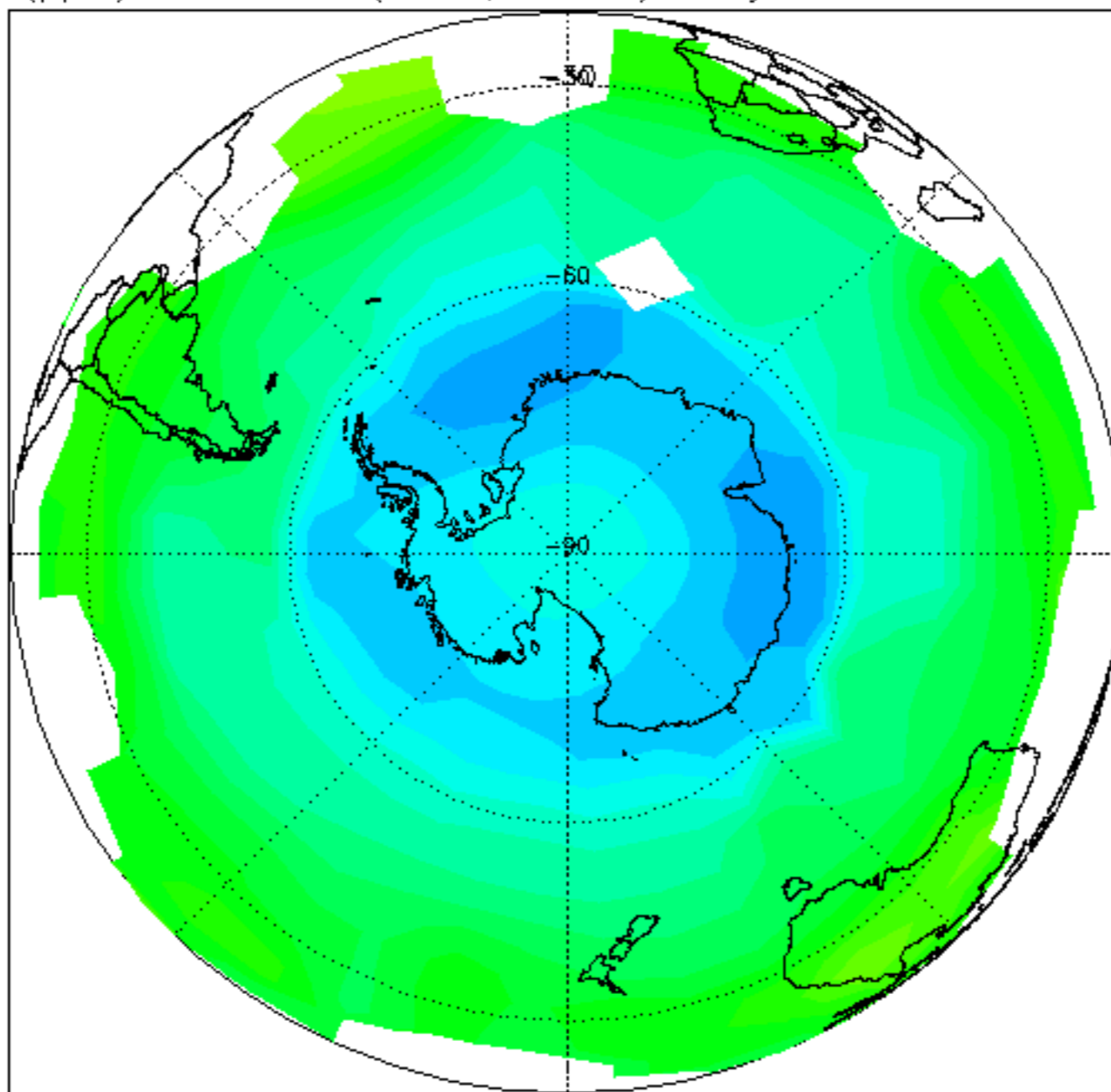
Temp (K) at: 1700 K (45km, 1.5hPa). Daily mean: 03-FEB-2012



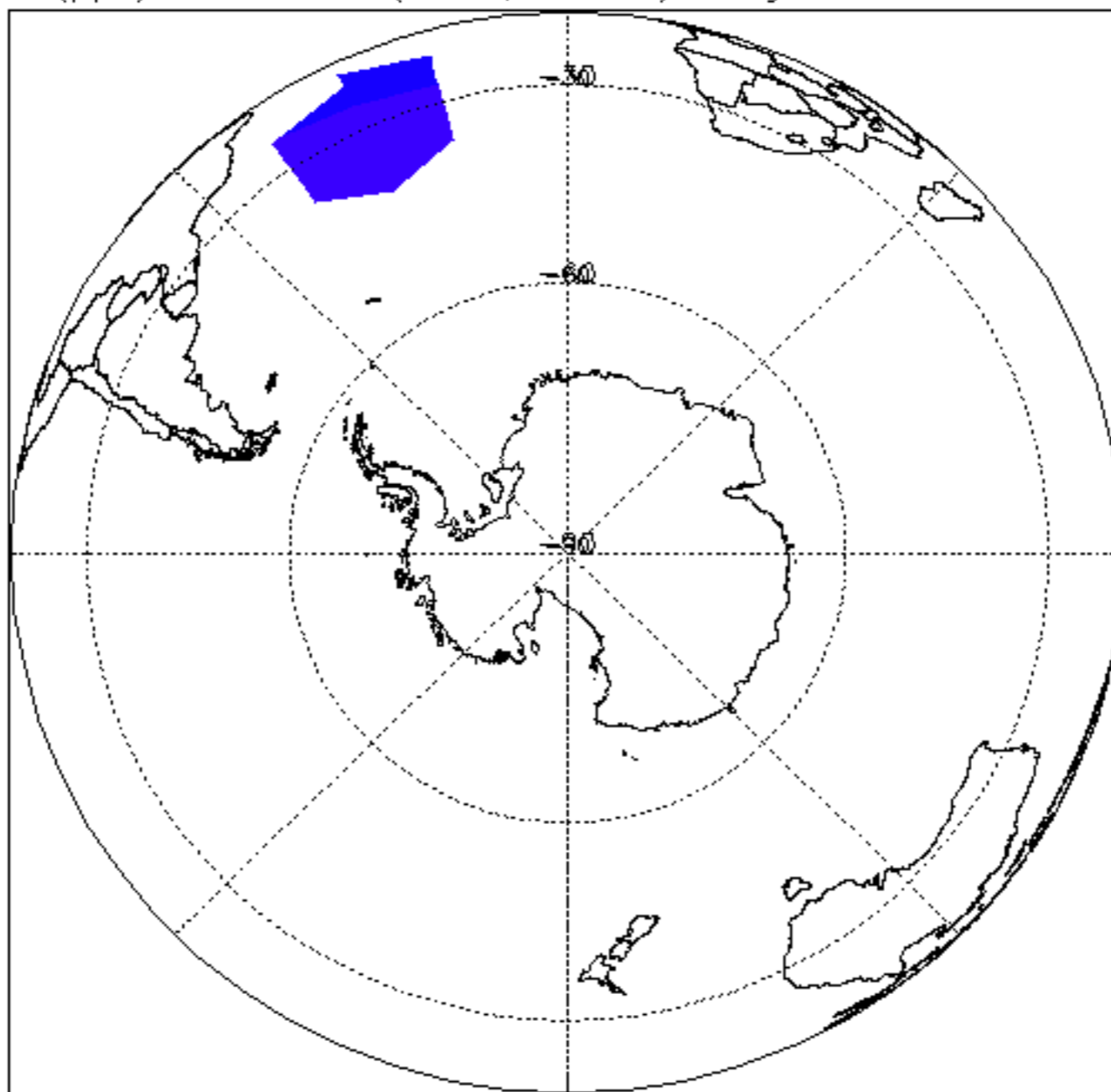
H₂O (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 03-FEB-2012



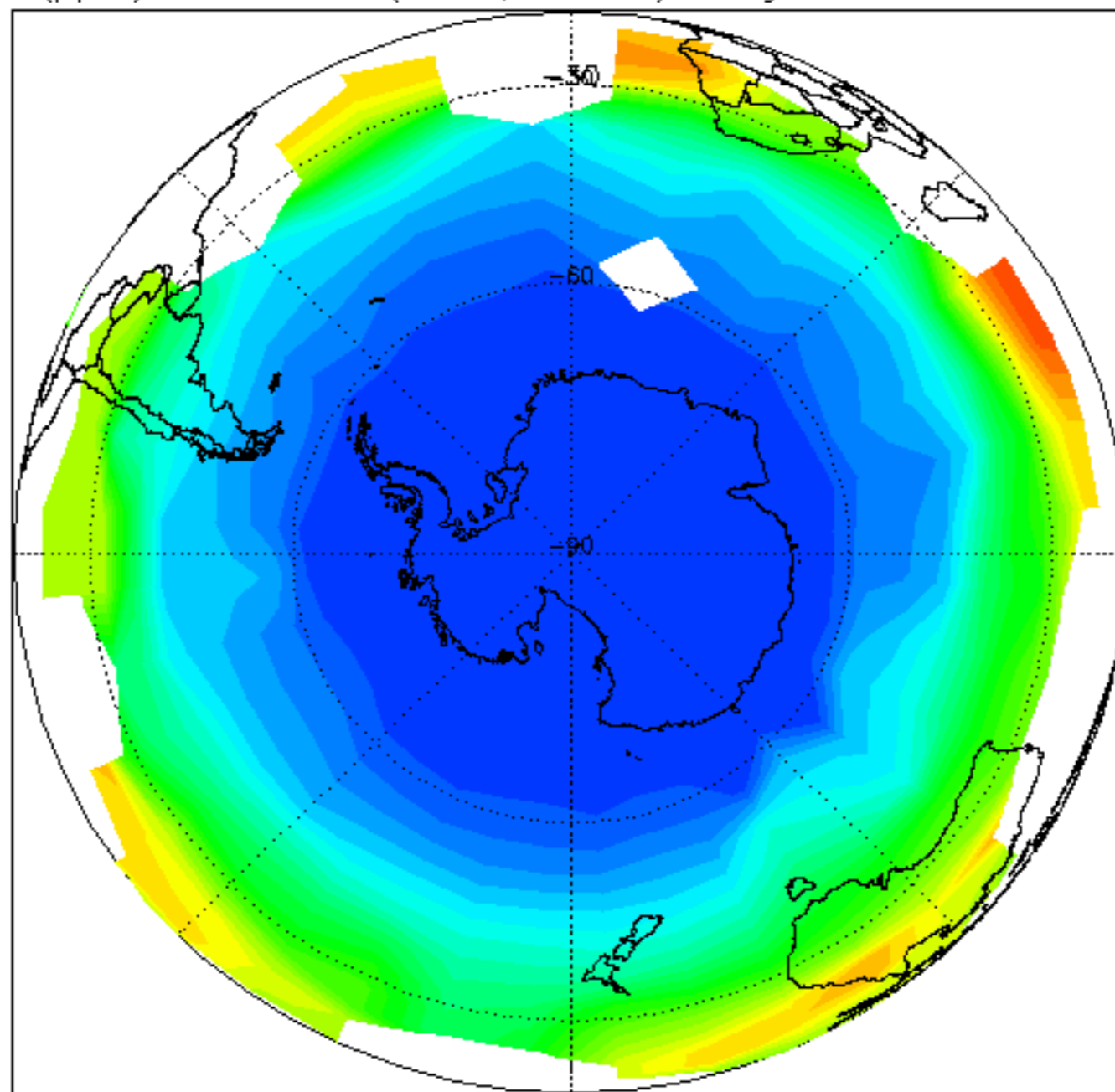
O₃ (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 03-FEB-2012



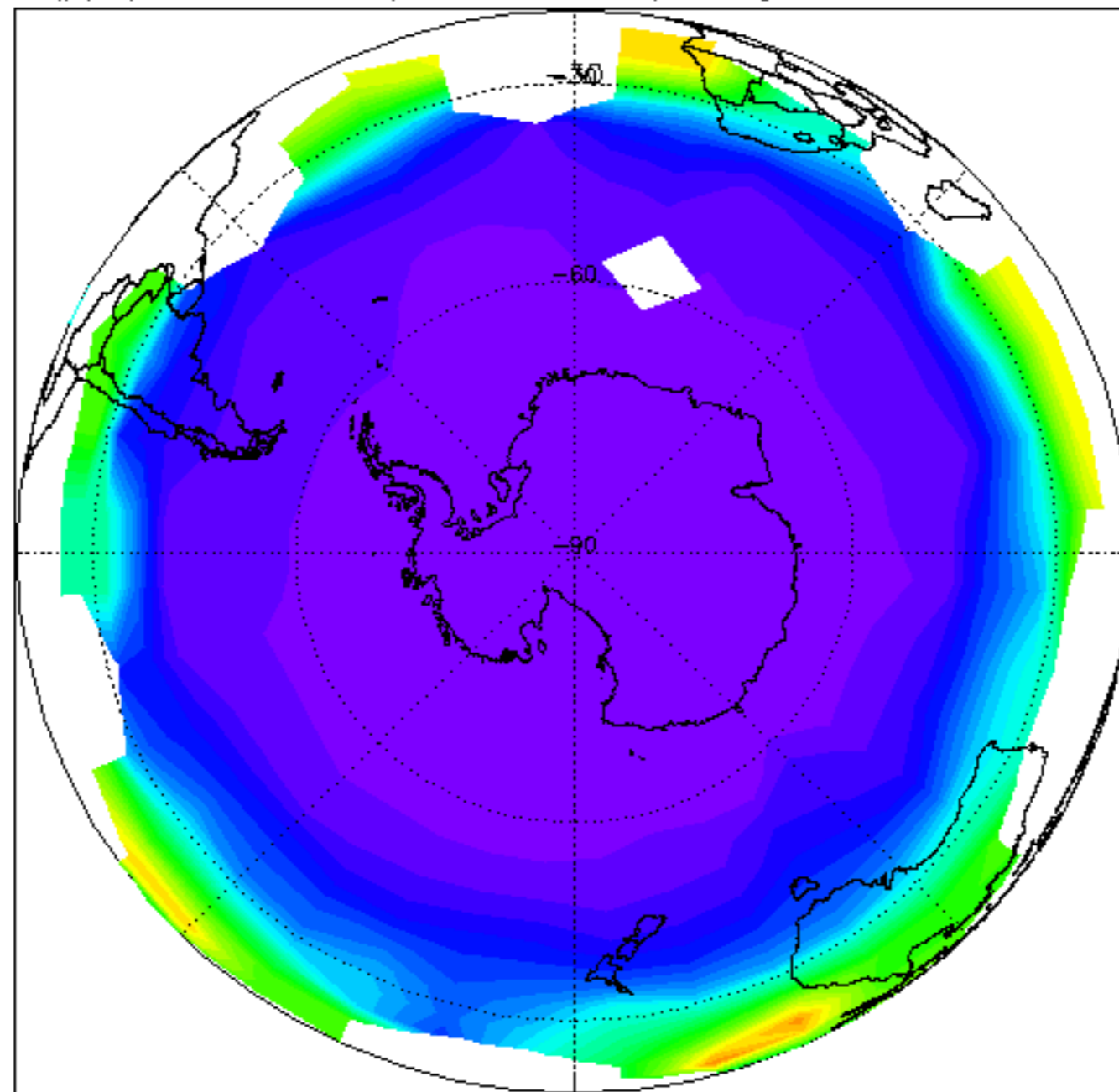
HN03 (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 03-FEB-2012



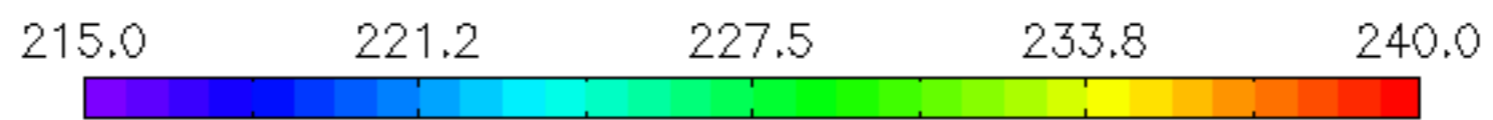
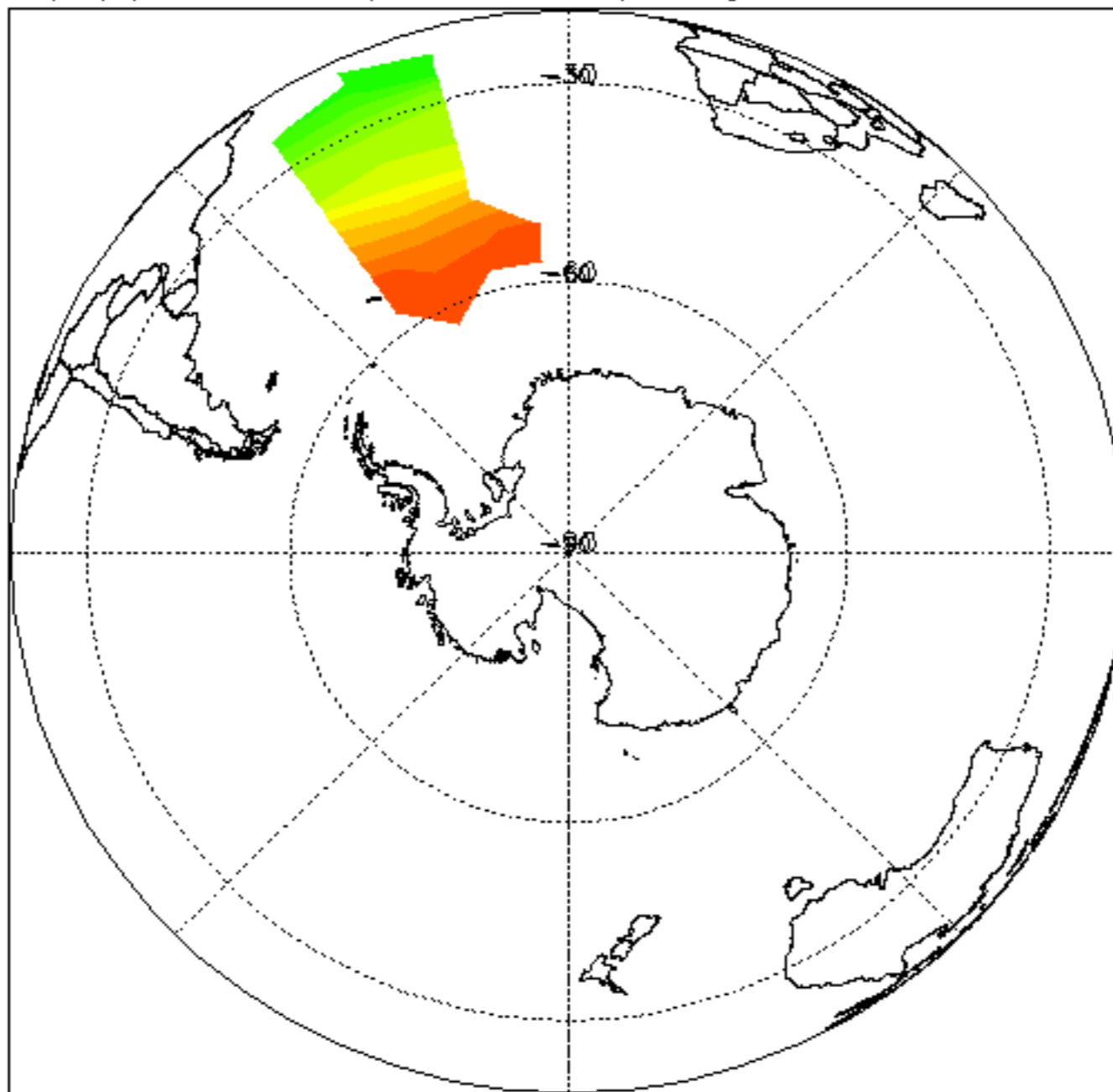
CH₄ (ppm) at: 1700 K (45km, 1.5hPa). Daily mean: 03-FEB-2012



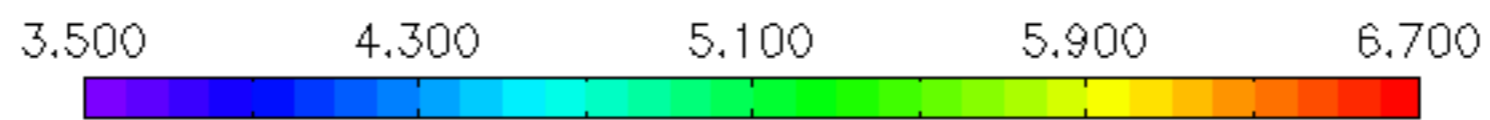
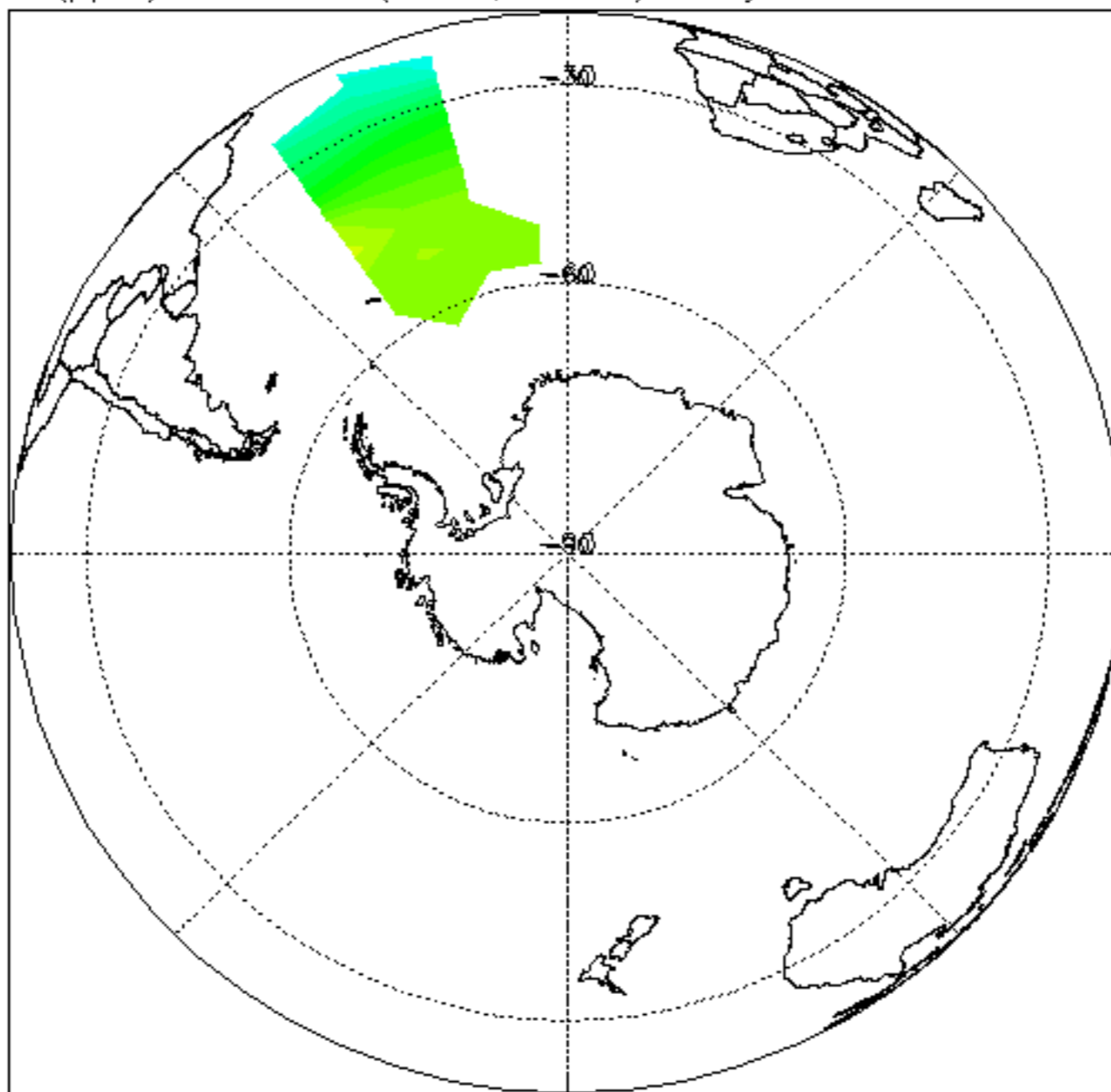
N20 (ppb) at: 1700 K (45km, 1.5hPa). Daily mean: 03-FEB-2012



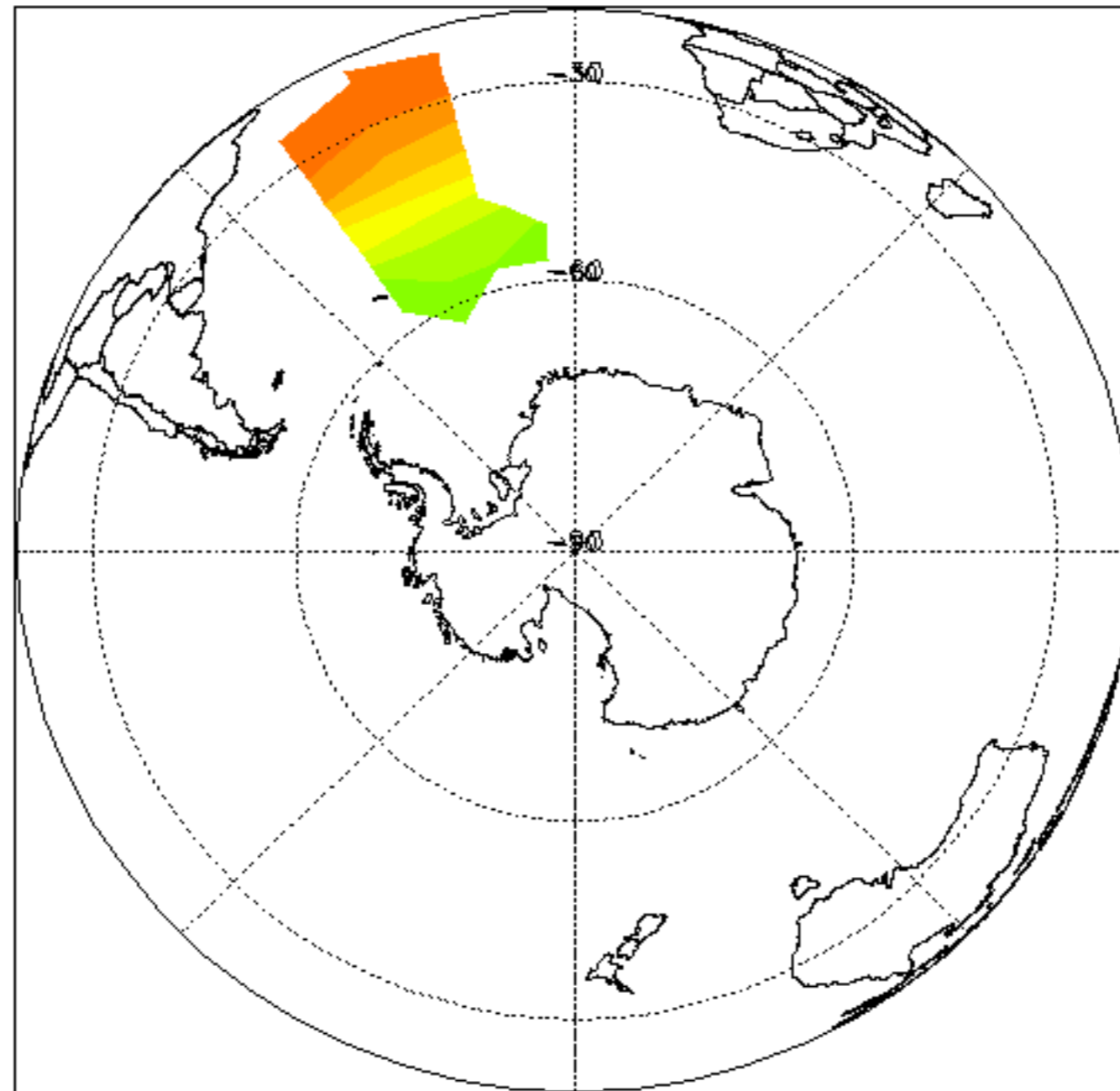
Temp (K) at: 850 K (32km, 10hPa). Daily mean: 03-FEB-2012



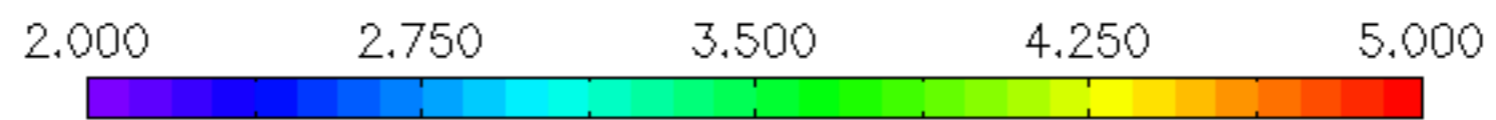
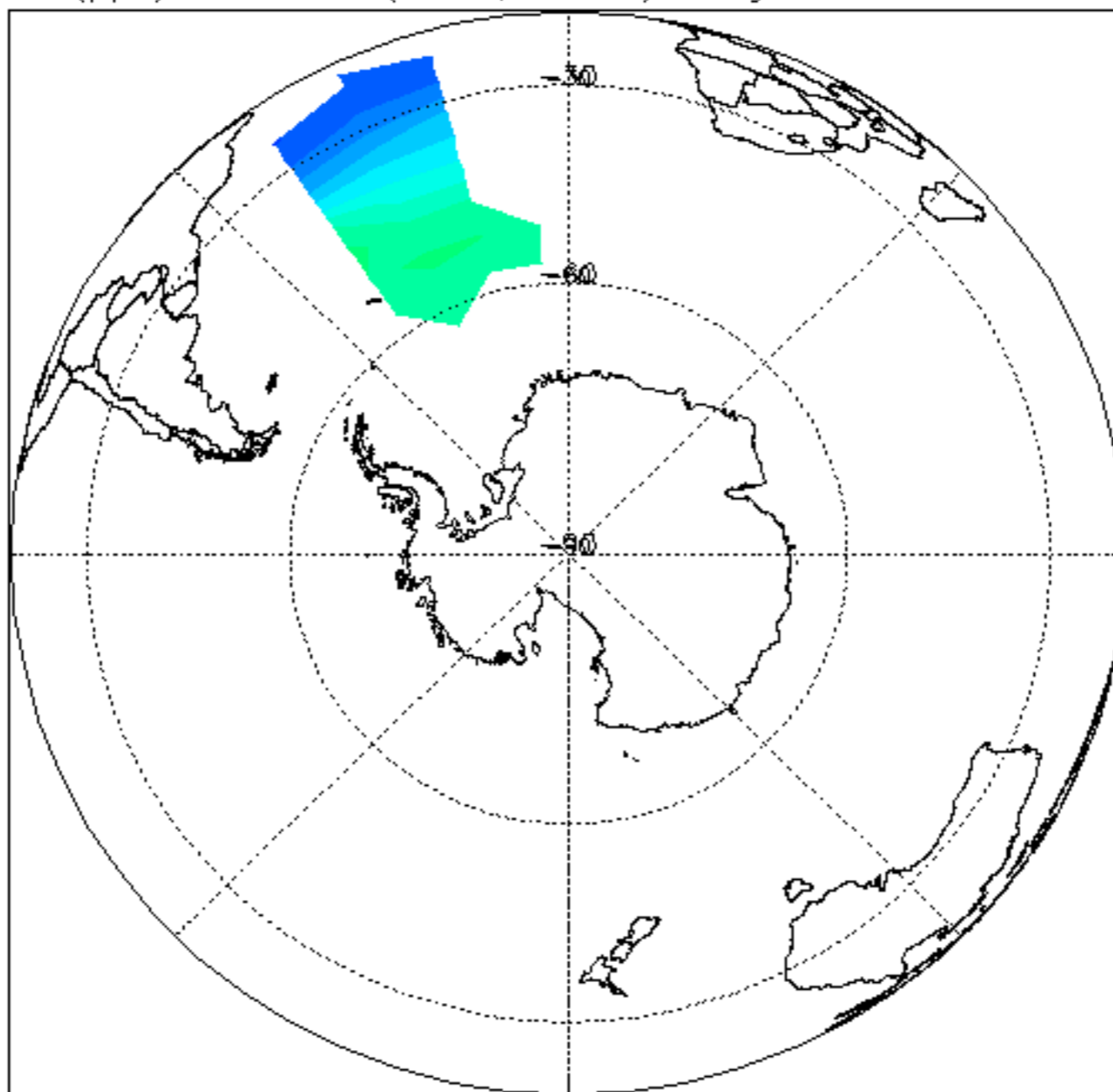
H₂O (ppm) at: 850 K (32km, 10hPa). Daily mean: 03-FEB-2012



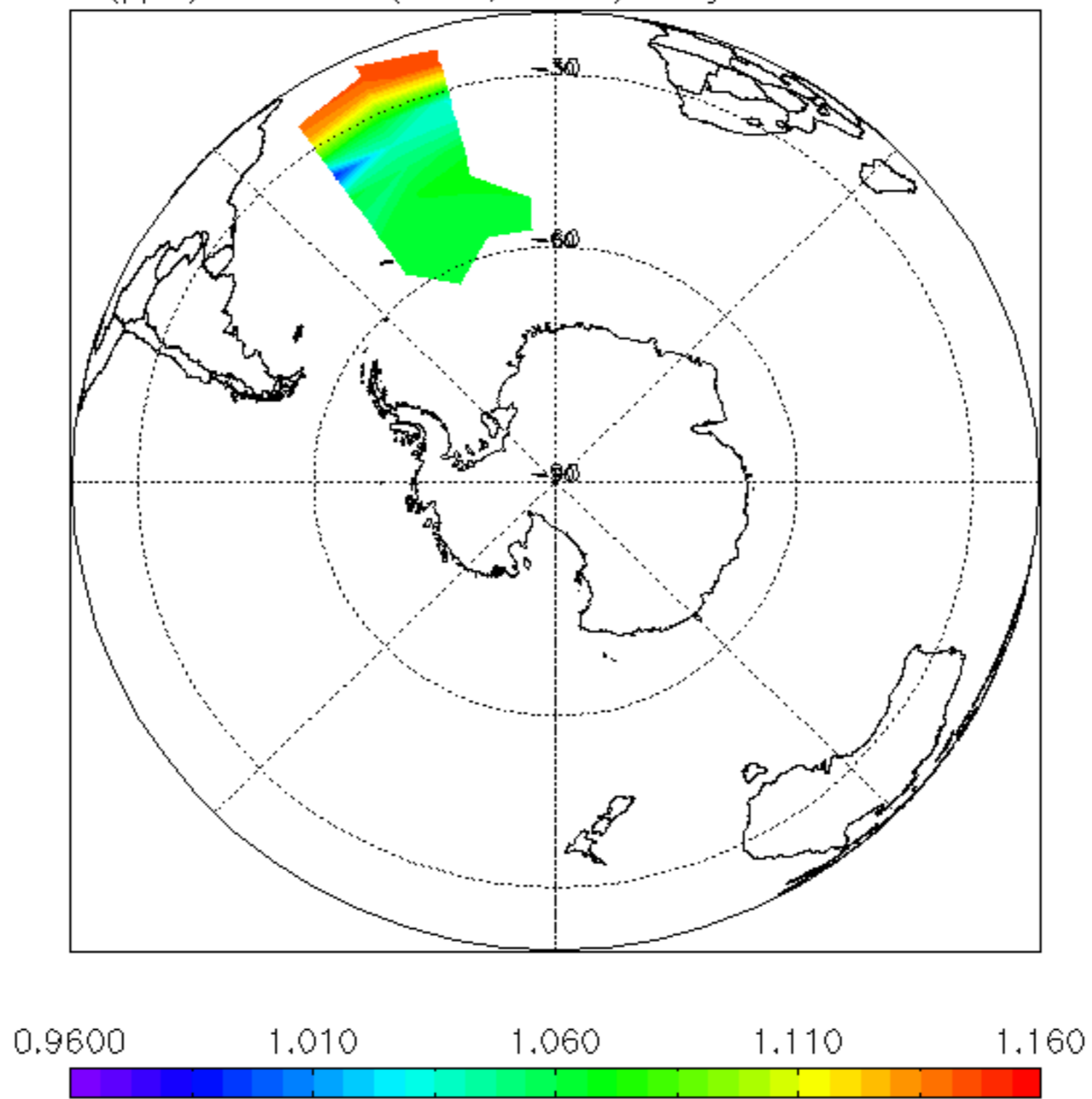
O₃ (ppm) at: 850 K (32km, 10hPa). Daily mean: 03-FEB-2012



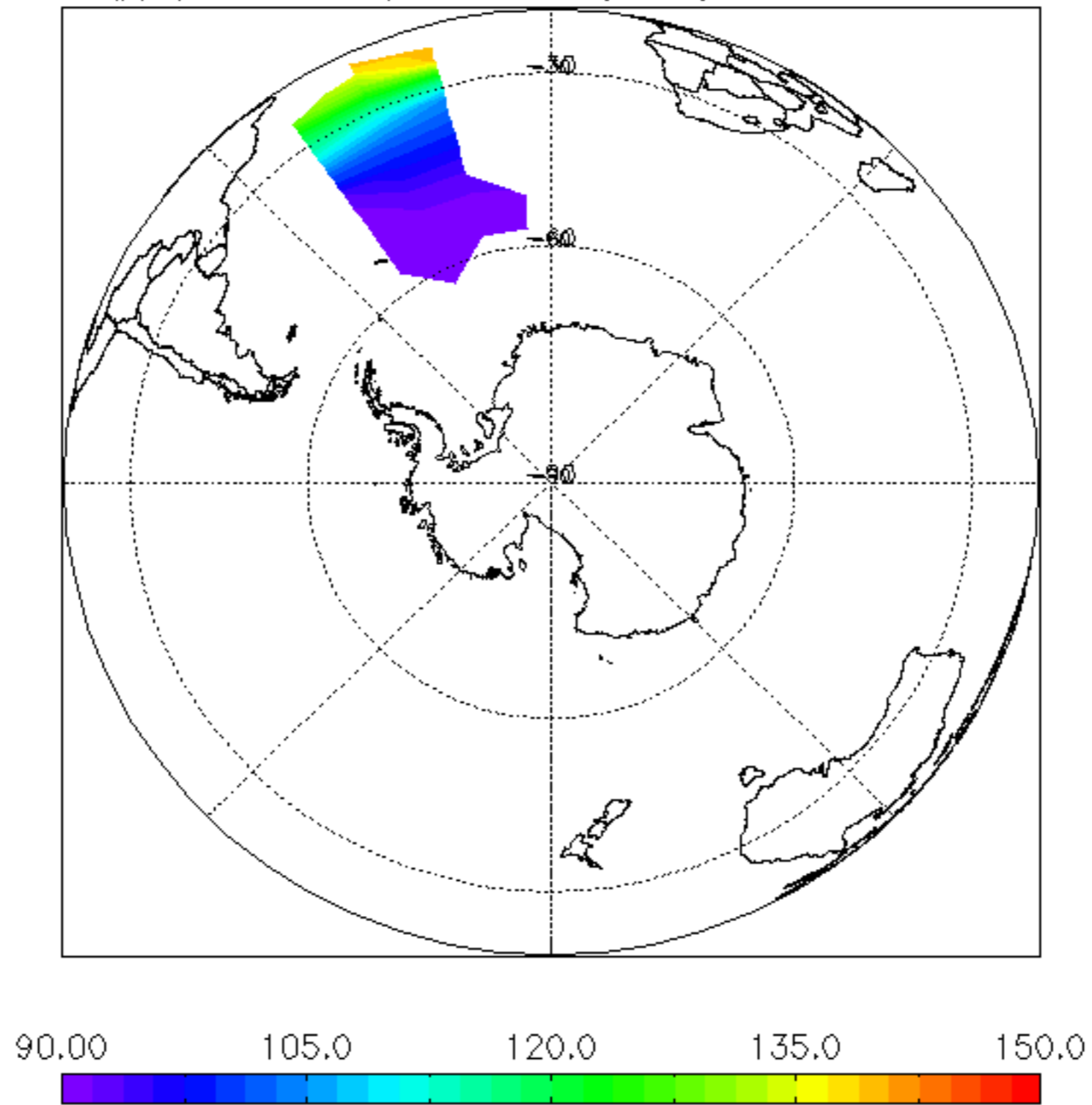
HNO₃ (ppb) at: 850 K (32km, 10hPa). Daily mean: 03-FEB-2012



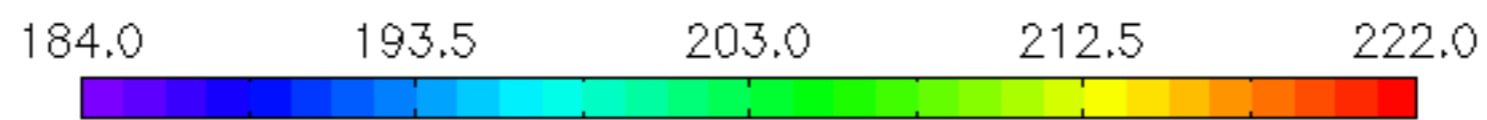
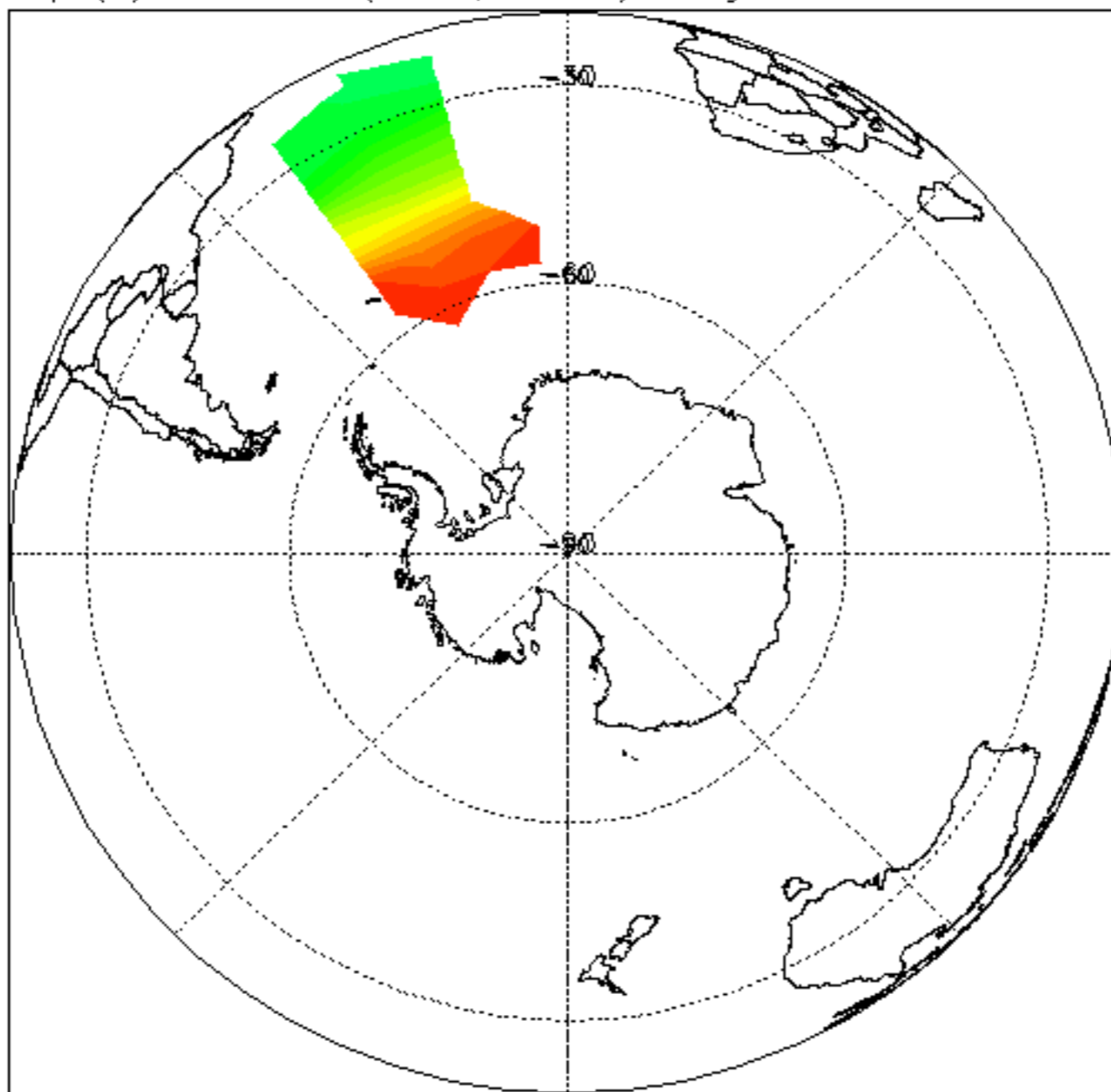
CH₄ (ppm) at: 850 K (32km, 10hPa). Daily mean: 03-FEB-2012



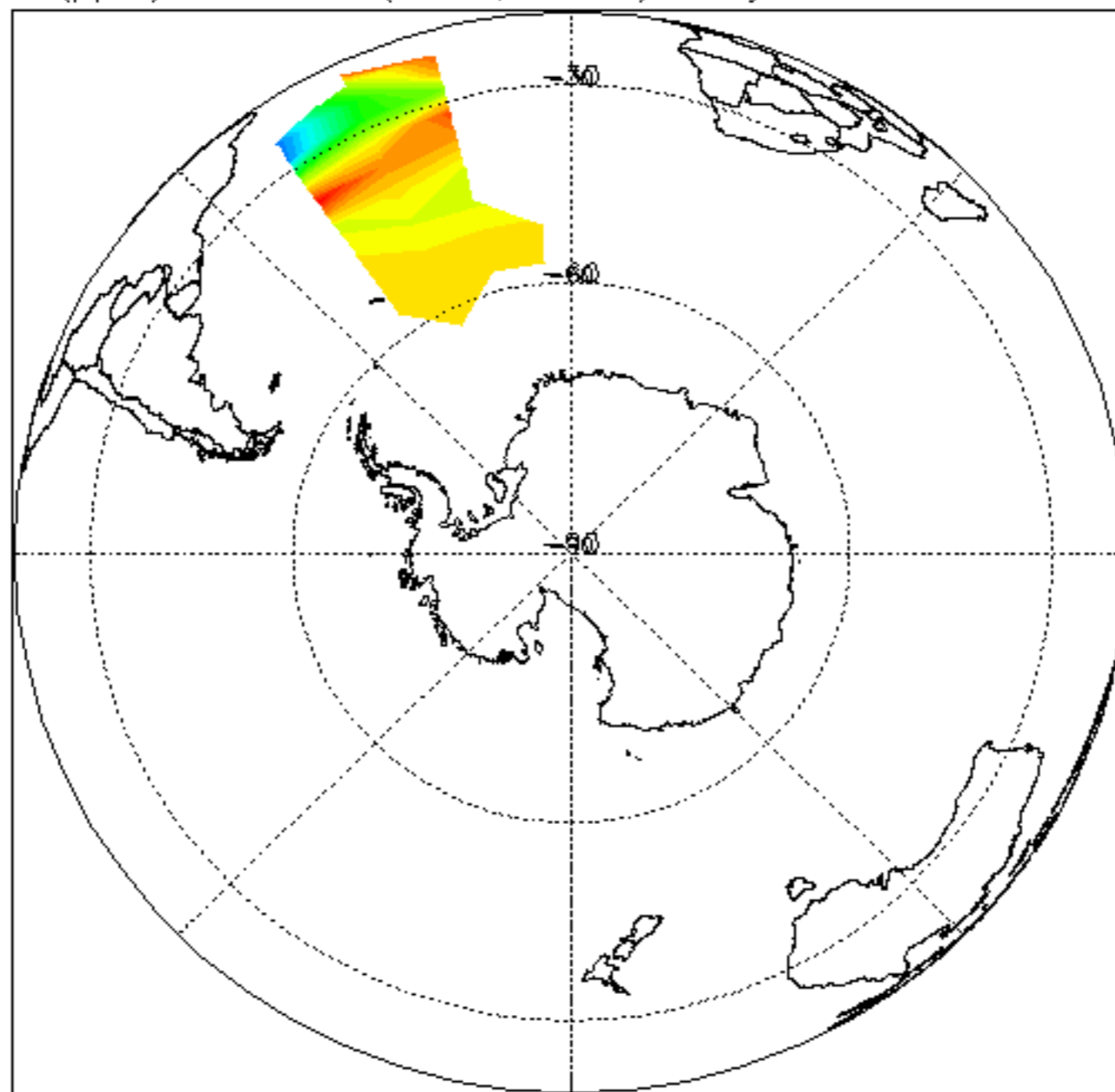
N₂O (ppb) at: 850 K (32km, 10hPa). Daily mean: 03-FEB-2012



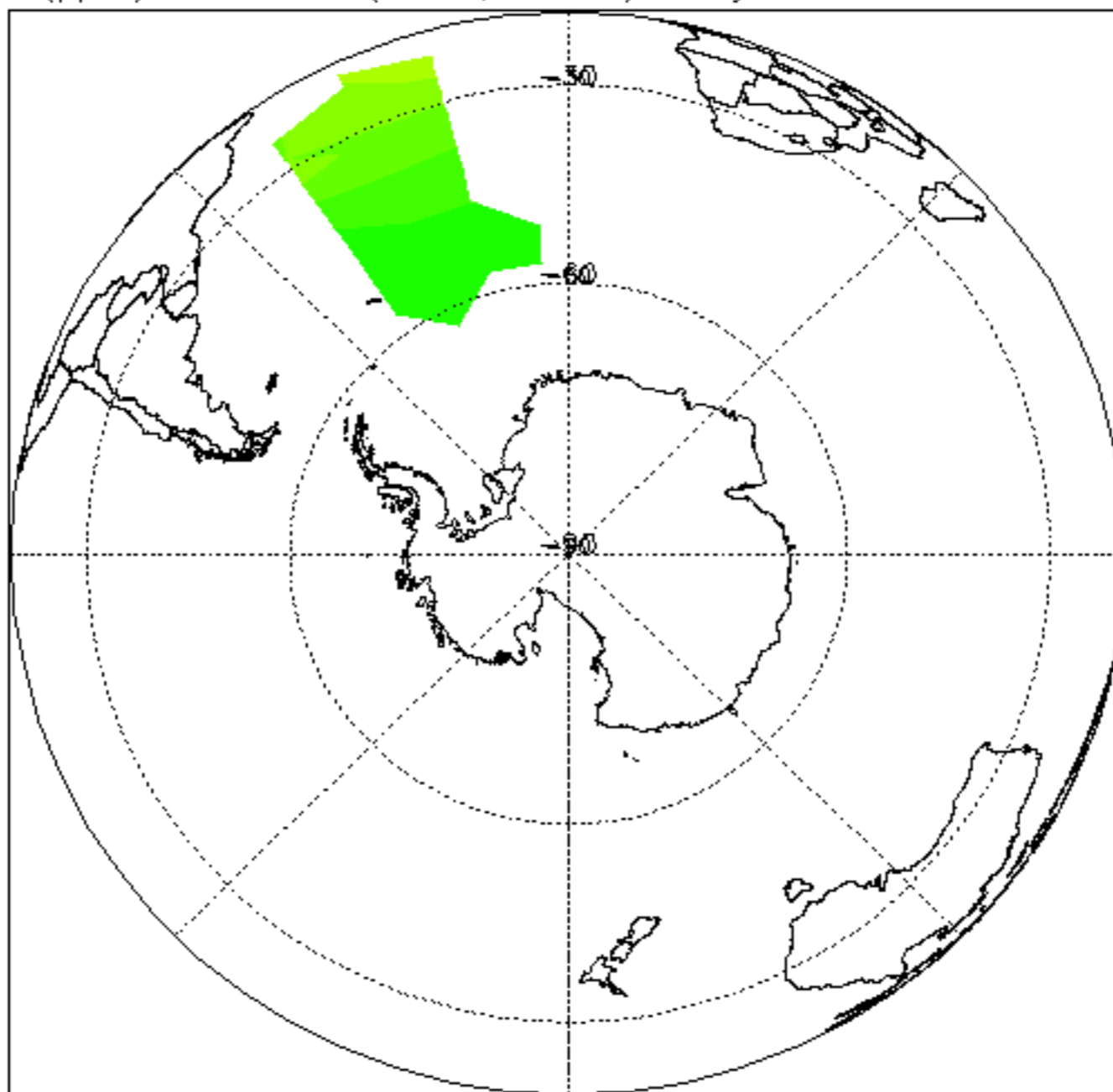
Temp (K) at: 490 K (19km, 55hPa). Daily mean: 03-FEB-2012



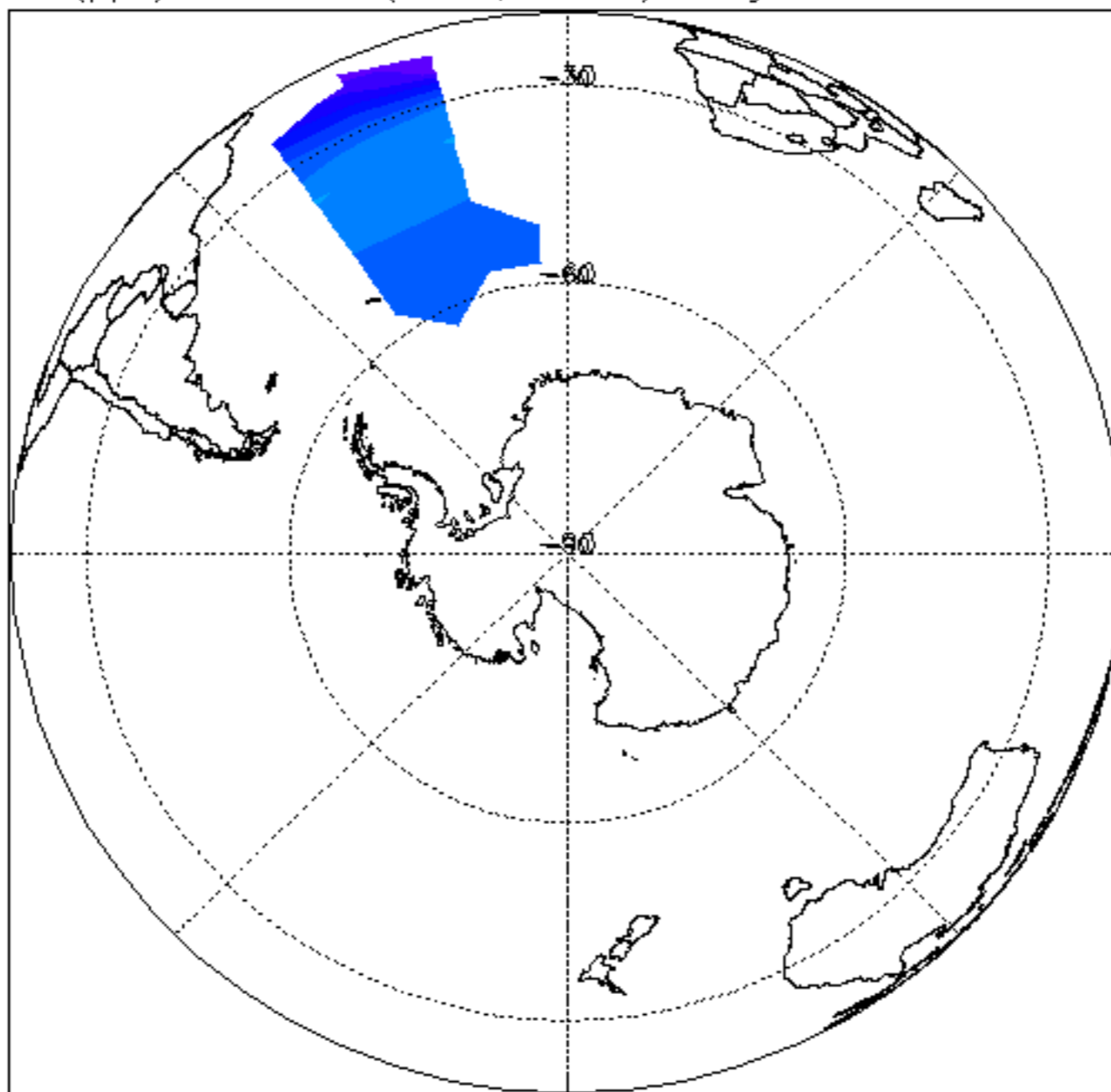
H₂O (ppm) at: 490 K (19km, 55hPa). Daily mean: 03-FEB-2012



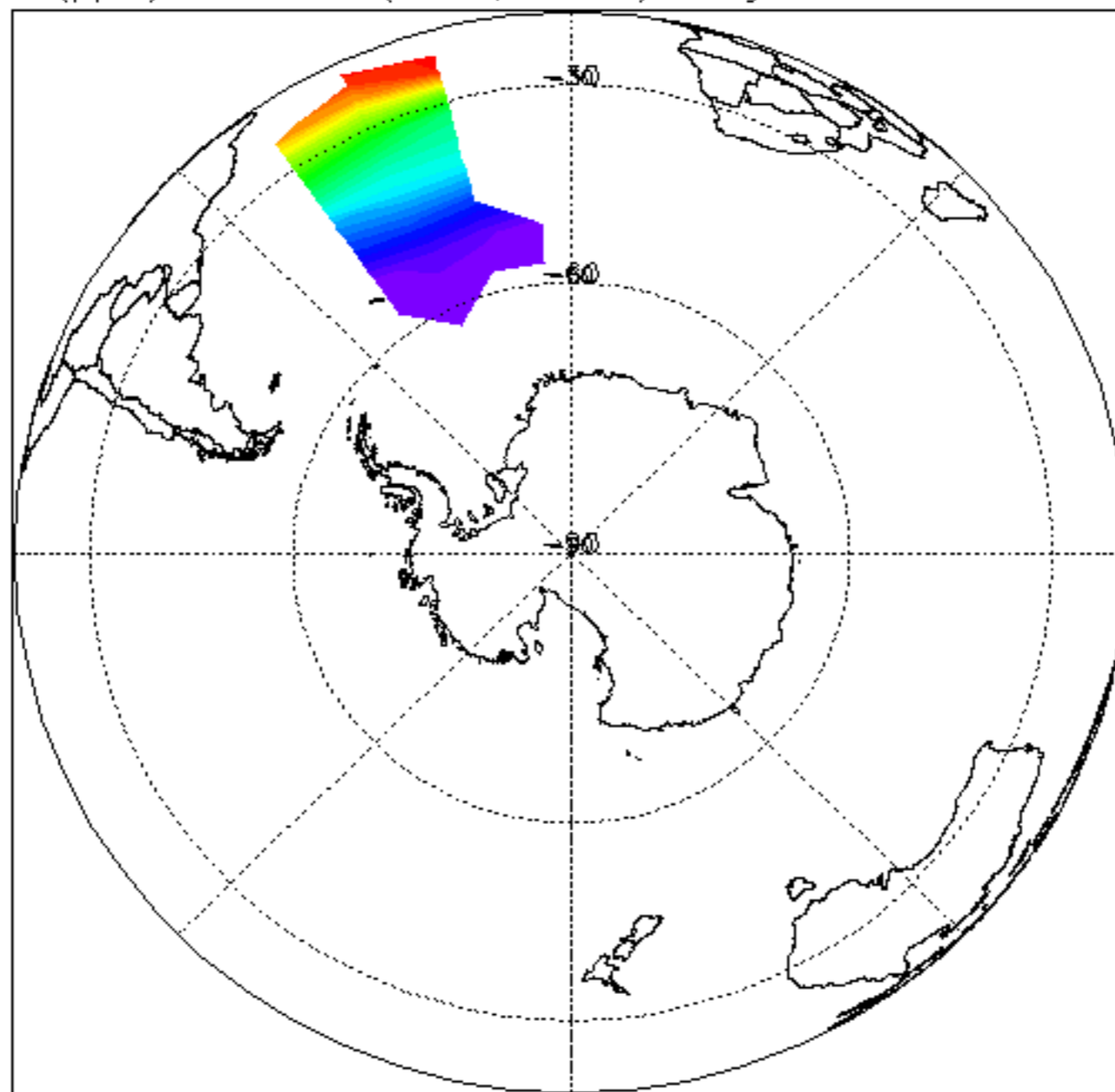
O₃ (ppm) at: 490 K (19km, 55hPa). Daily mean: 03-FEB-2012



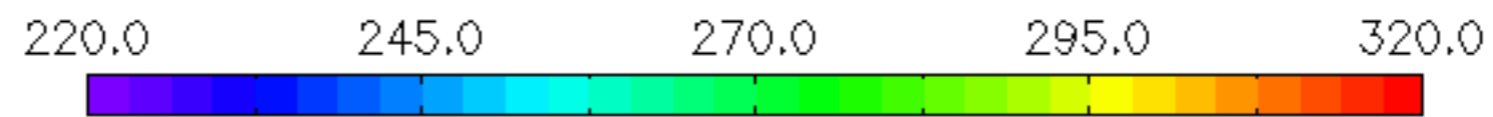
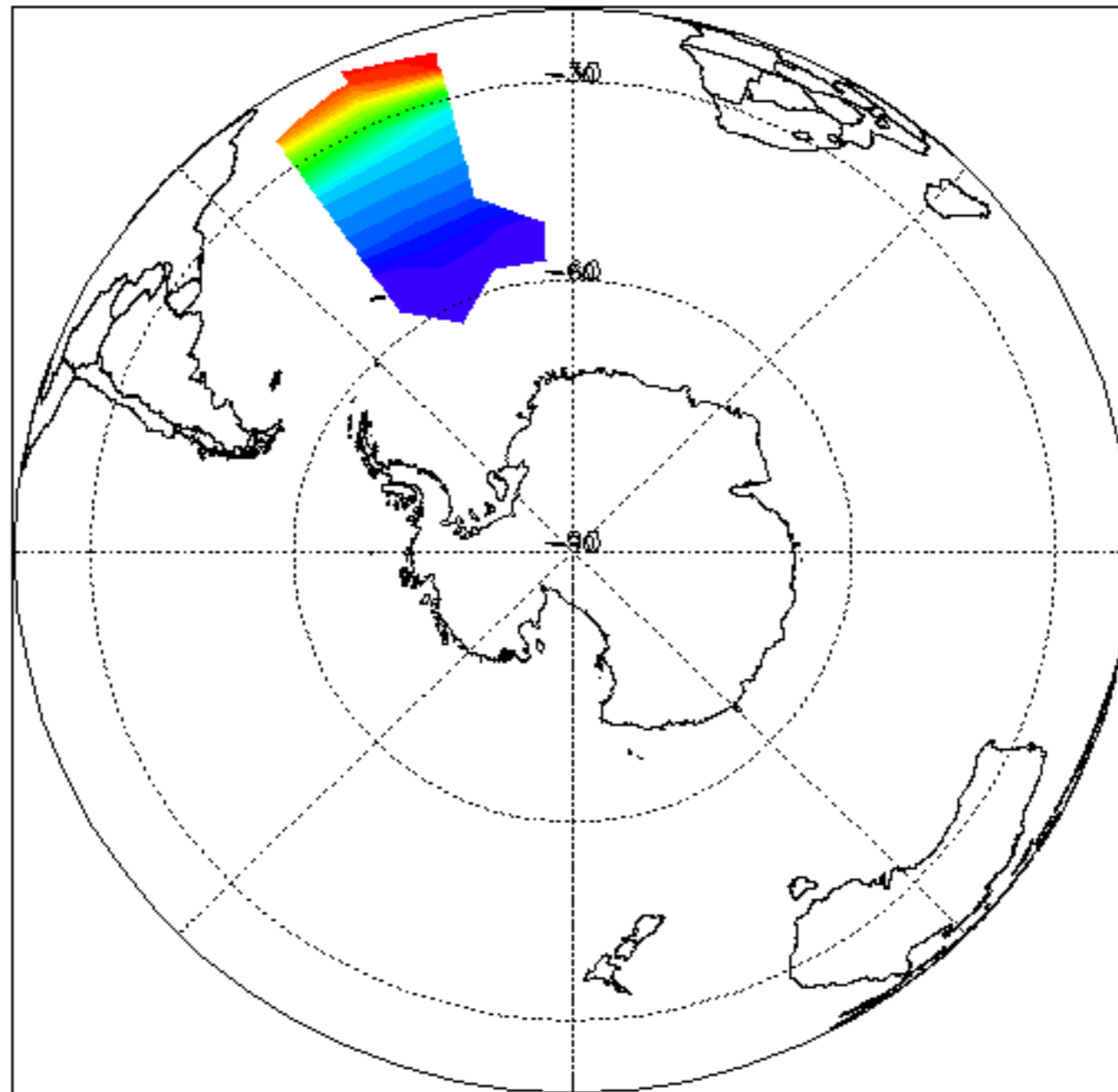
HNO₃ (ppb) at: 490 K (19km, 55hPa). Daily mean: 03-FEB-2012



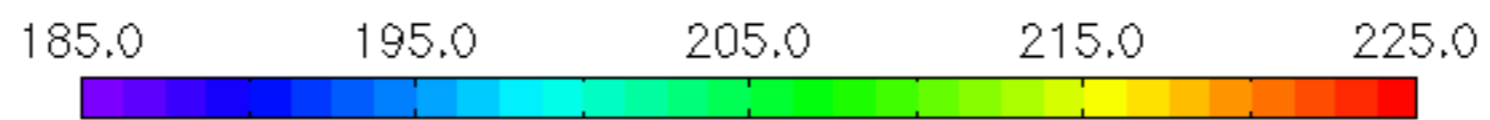
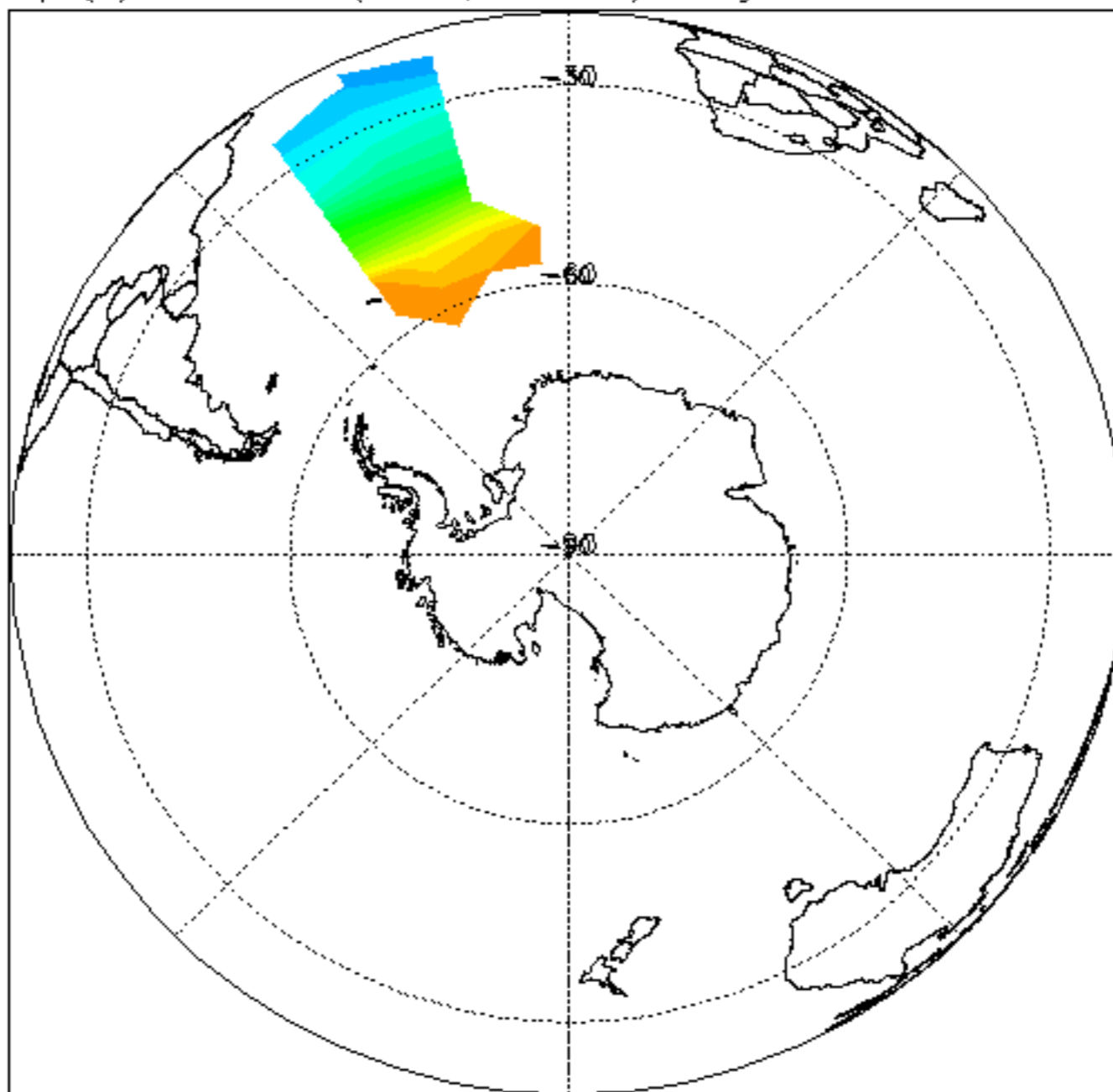
CH₄ (ppm) at: 490 K (19km, 55hPa). Daily mean: 03-FEB-2012



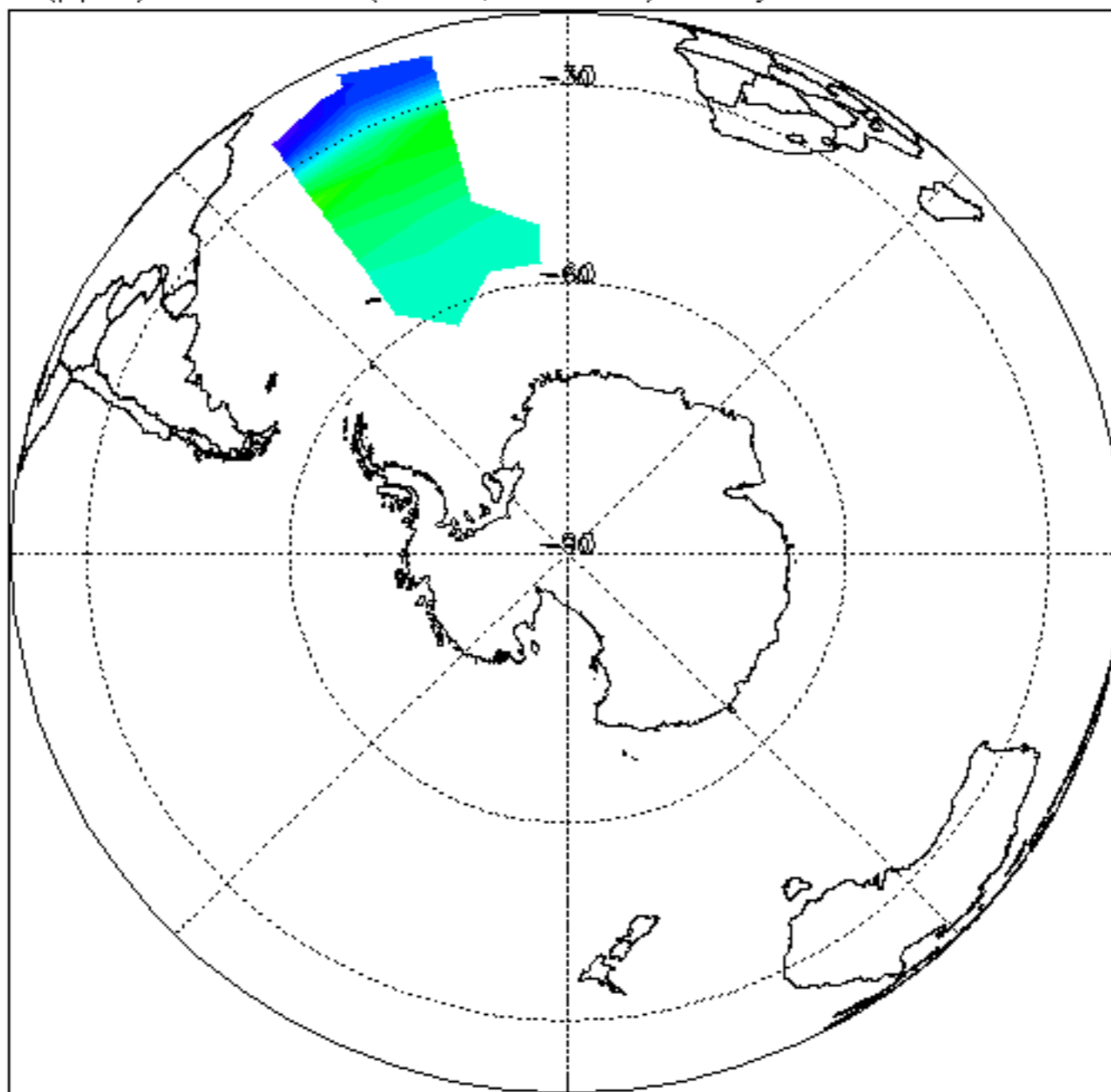
N₂O (ppb) at: 490 K (19km, 55hPa). Daily mean: 03-FEB-2012



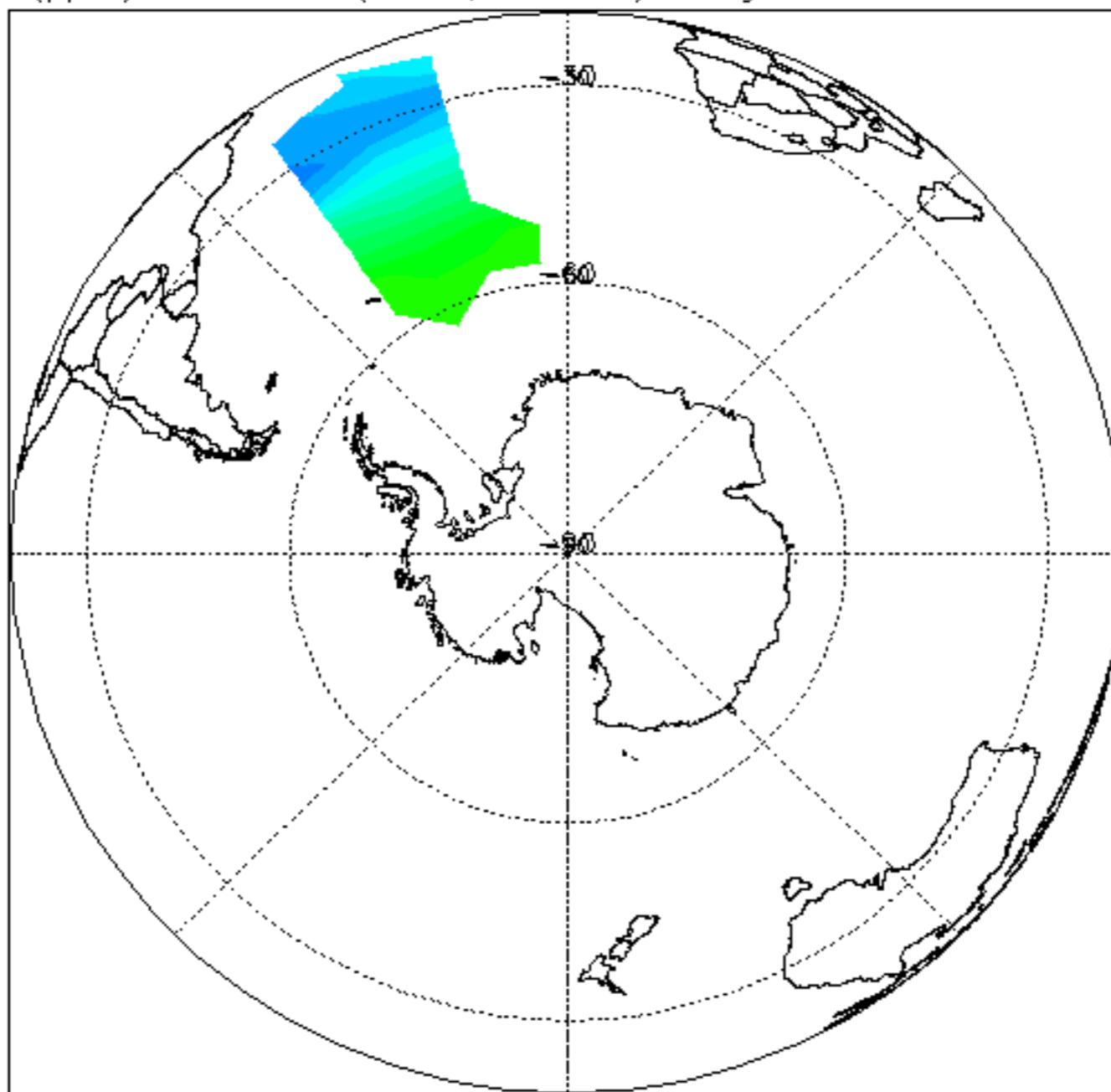
Temp (K) at: 410 K (16km, 100hPa). Daily mean: 03-FEB-2012



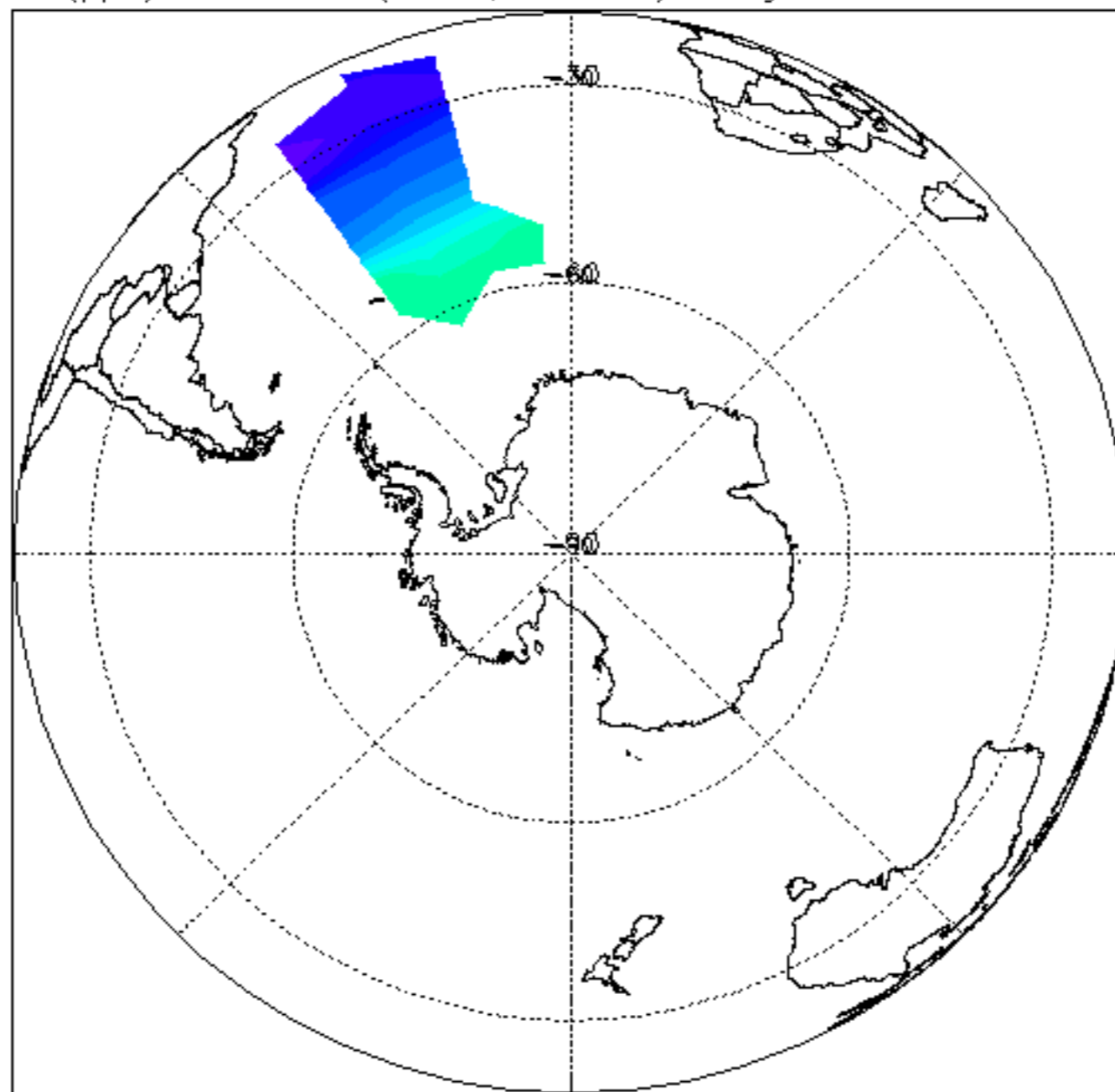
H₂O (ppm) at: 410 K (16km, 100hPa). Daily mean: 03-FEB-2012



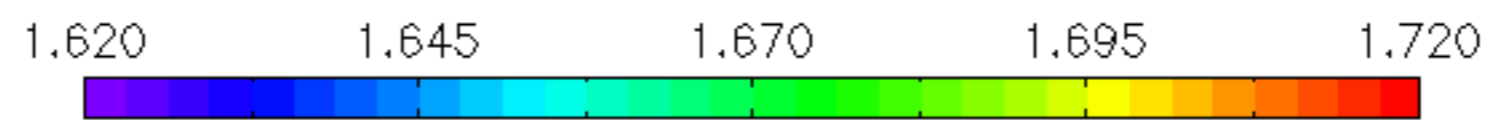
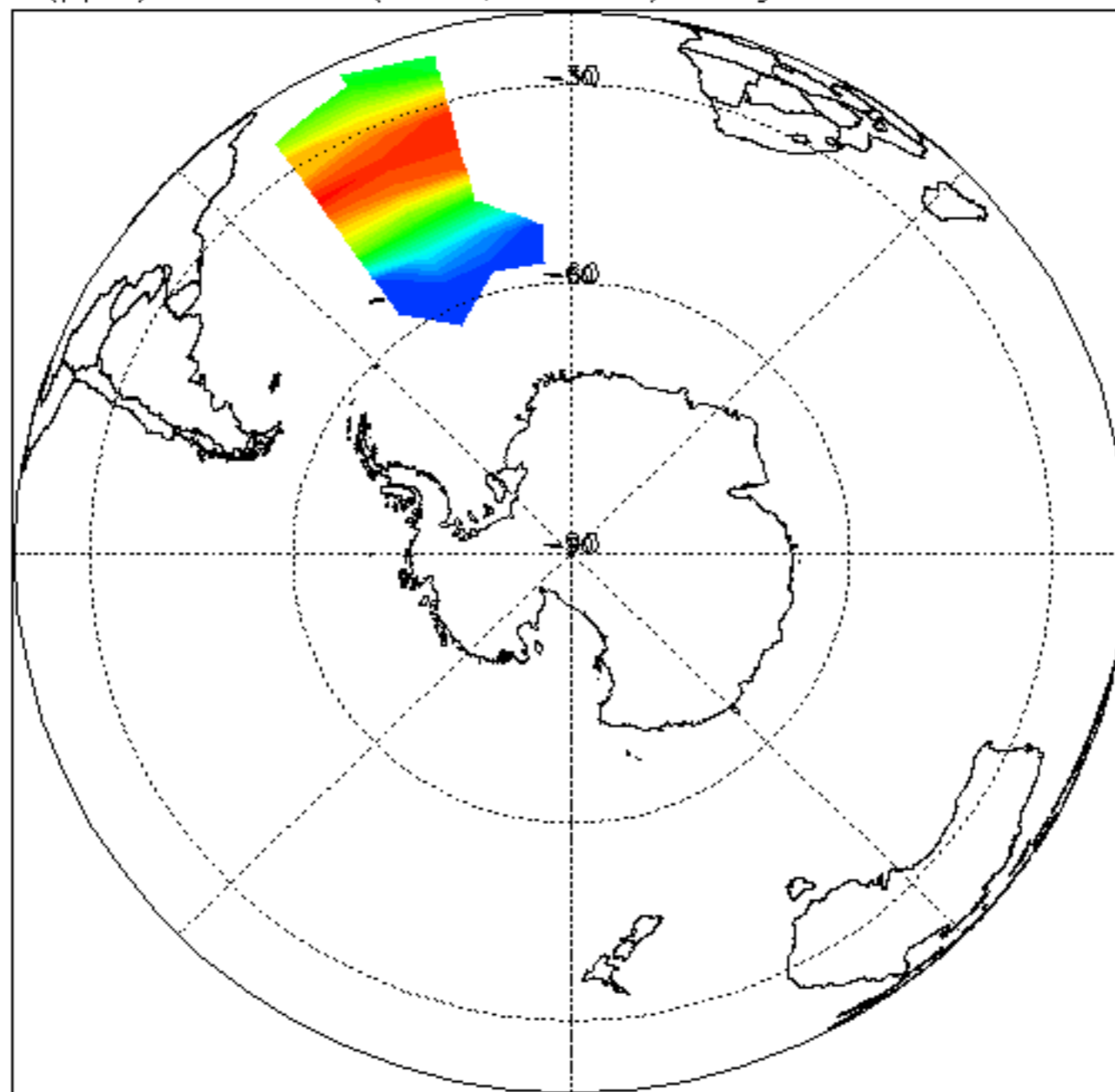
O₃ (ppm) at: 410 K (16km, 100hPa). Daily mean: 03-FEB-2012



HN03 (ppb) at: 410 K (16km, 100hPa). Daily mean: 03-FEB-2012



CH₄ (ppm) at: 410 K (16km, 100hPa). Daily mean: 03-FEB-2012



N₂O (ppb) at: 410 K (16km, 100hPa). Daily mean: 03-FEB-2012

