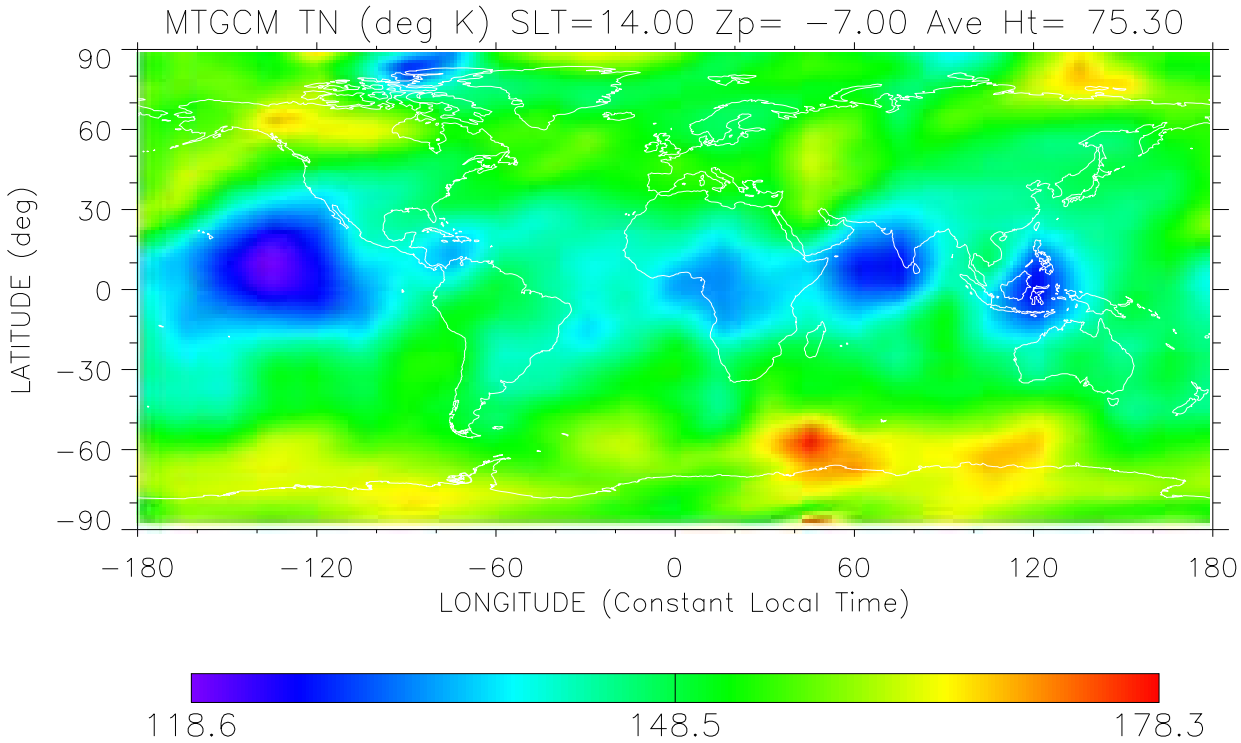
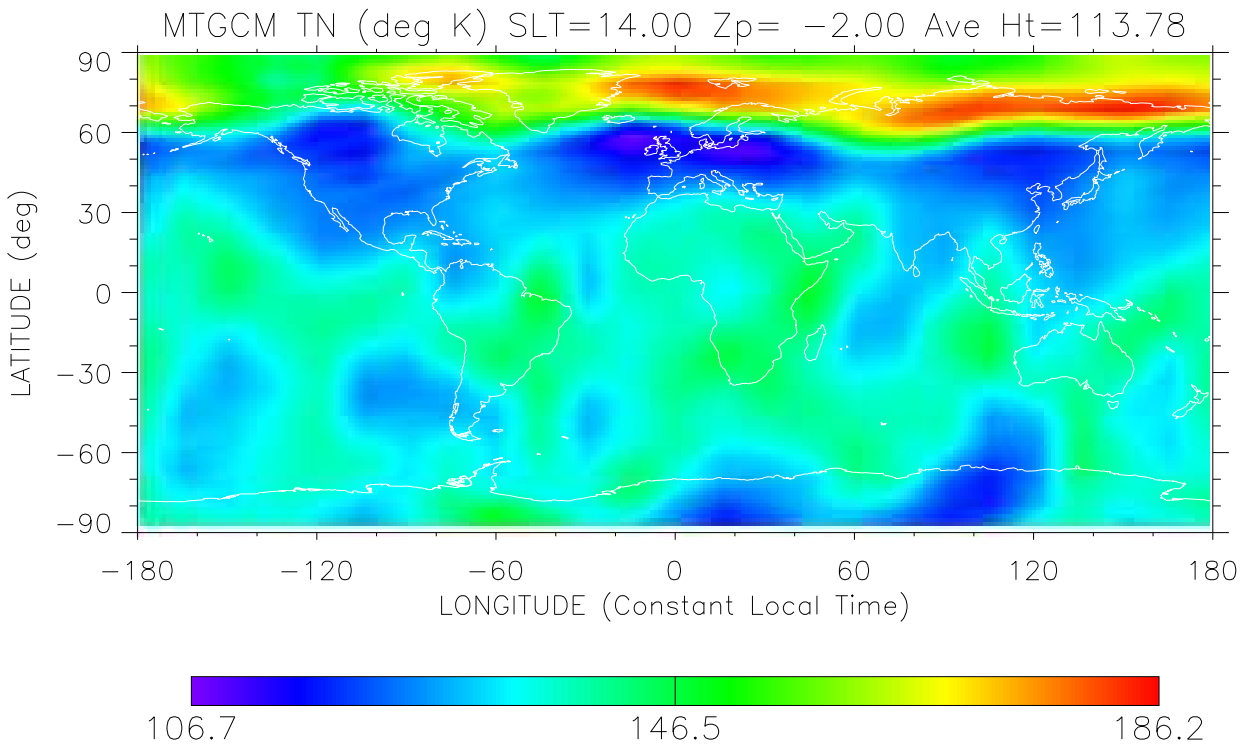
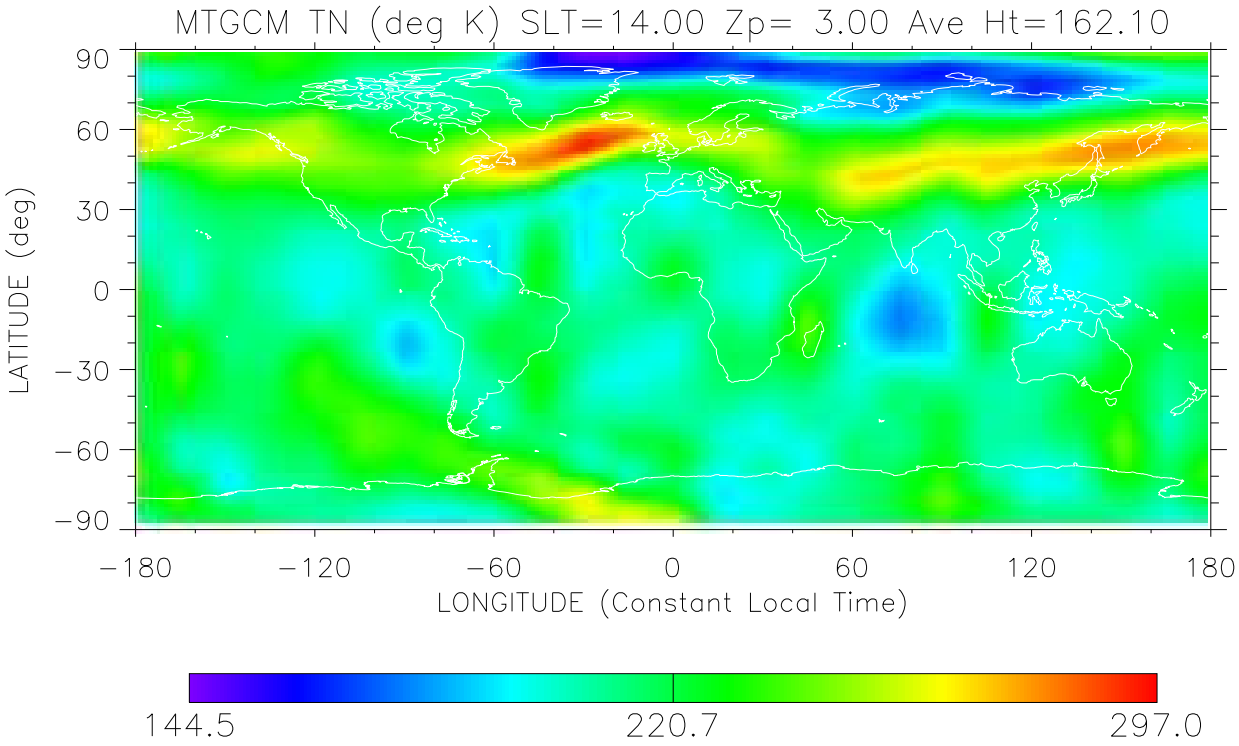
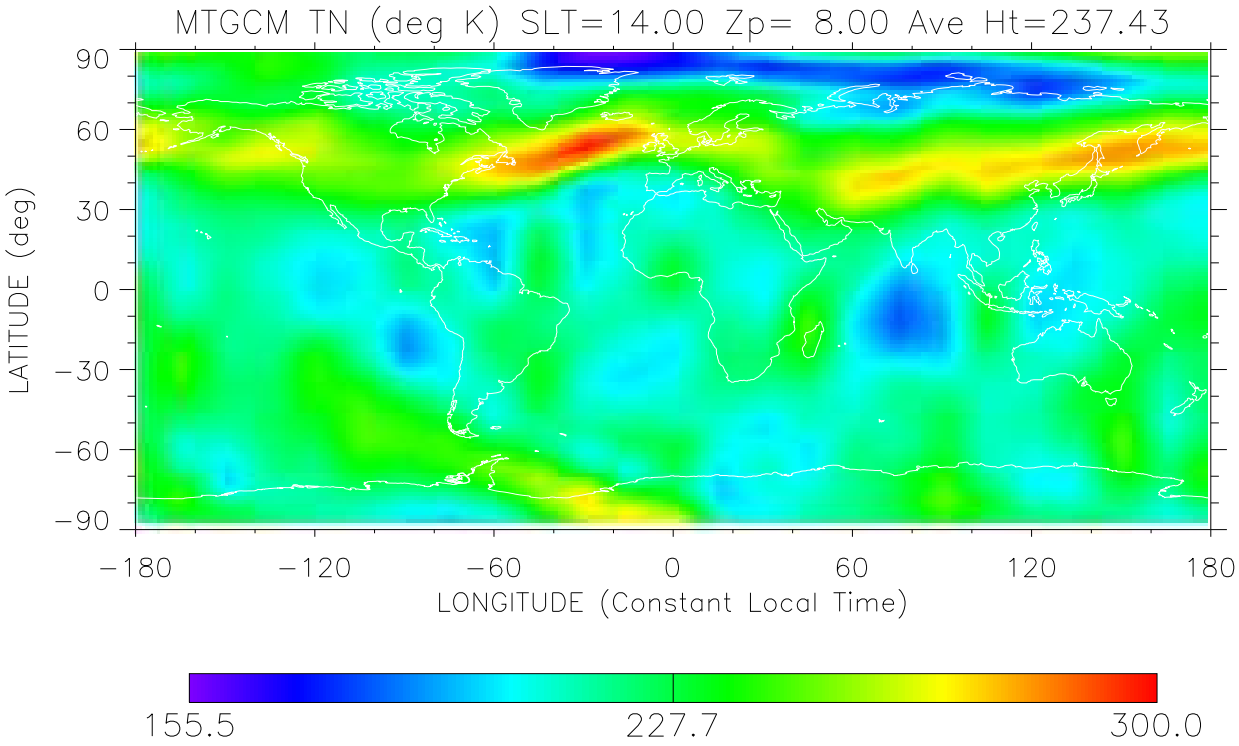
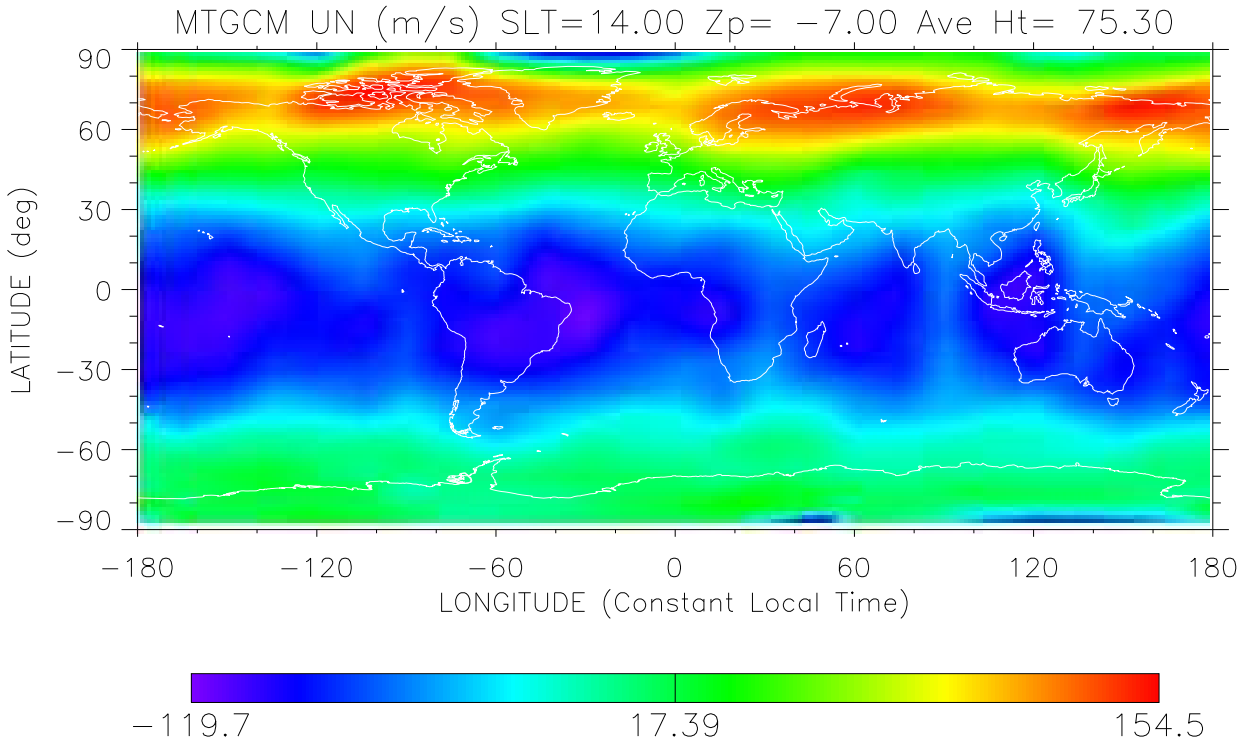
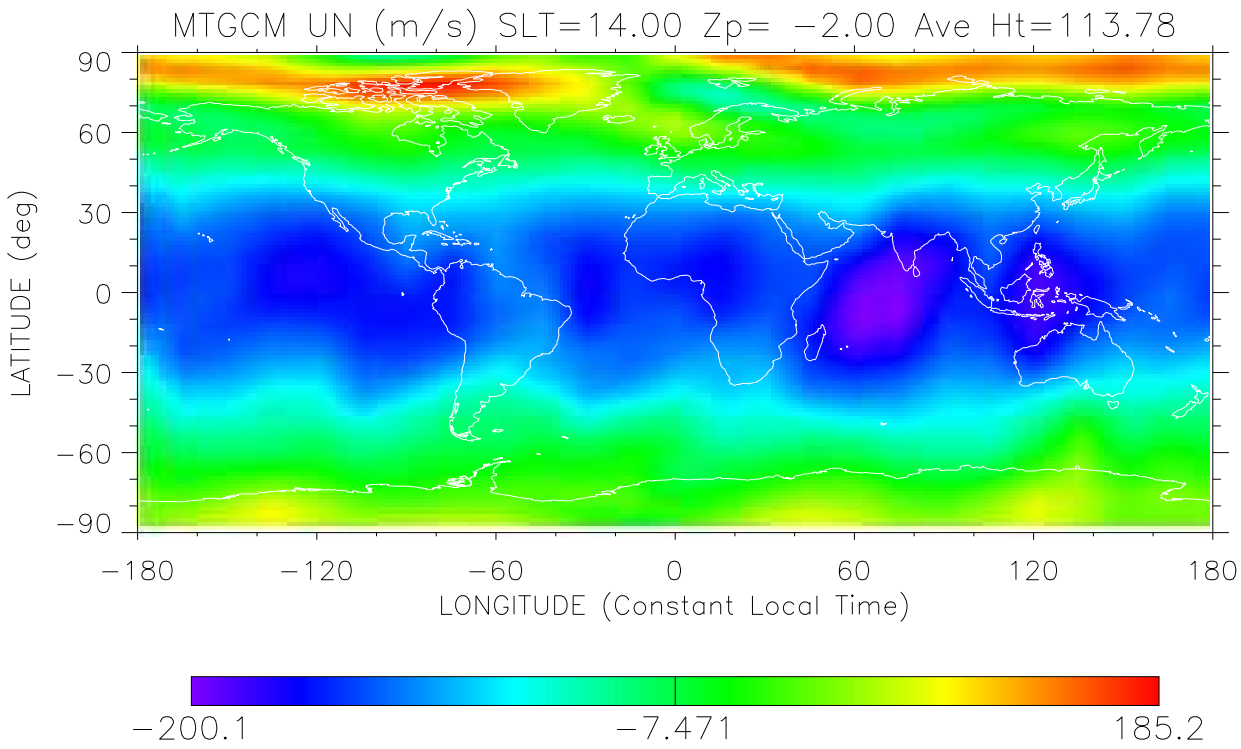

MTGCM TN (deg K) SLT=14.00 Zp= −7.00 Ave Ht= 75.30
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
118.6
148.5
178.3

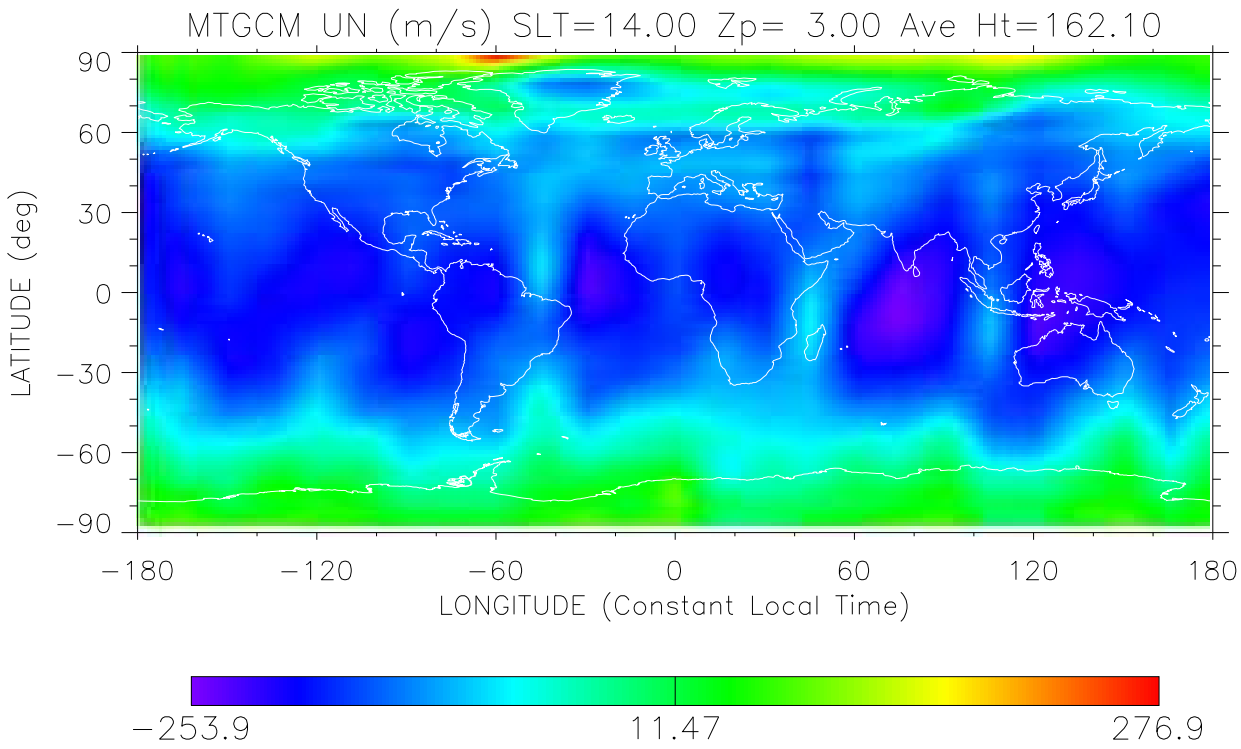

MTGCM TN (deg K) SLT=14.00 Zp= −2.00 Ave Ht=113.78
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
106.7
146.5
186.2

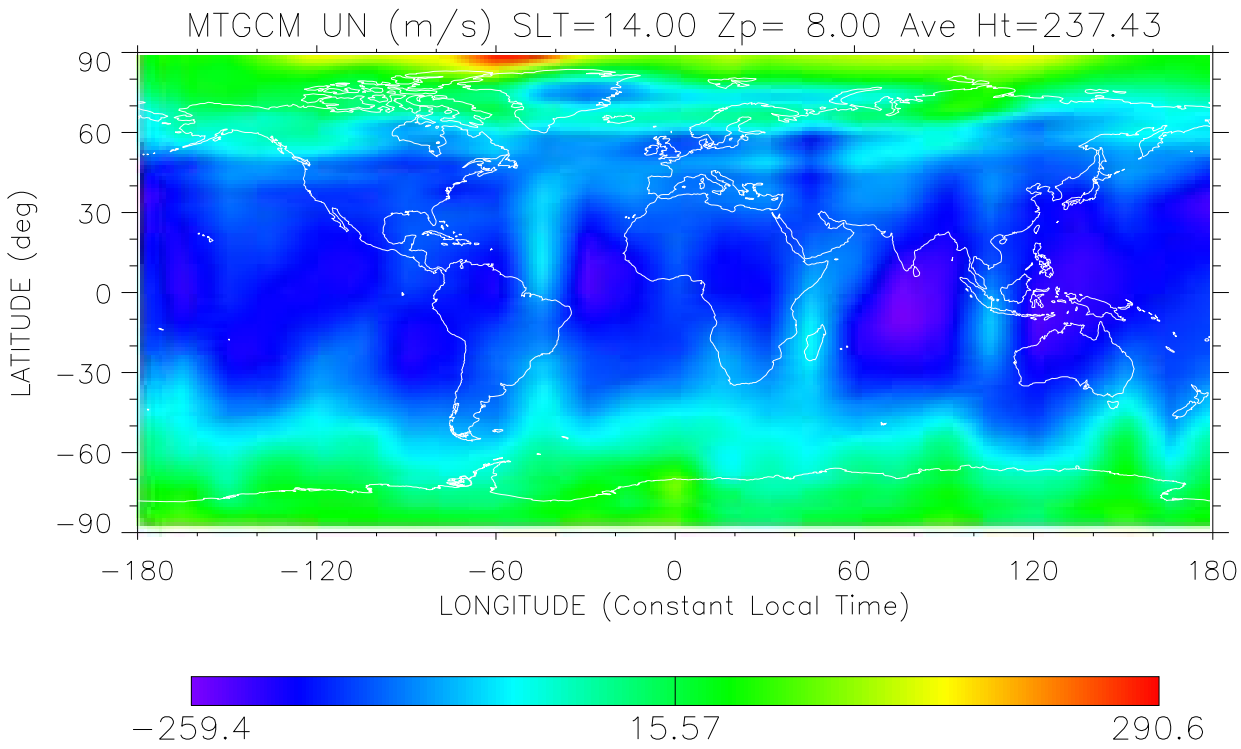

MTGCM TN (deg K) SLT=14.00 Zp= 3.00 Ave Ht=162.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
144.5
220.7
297.0

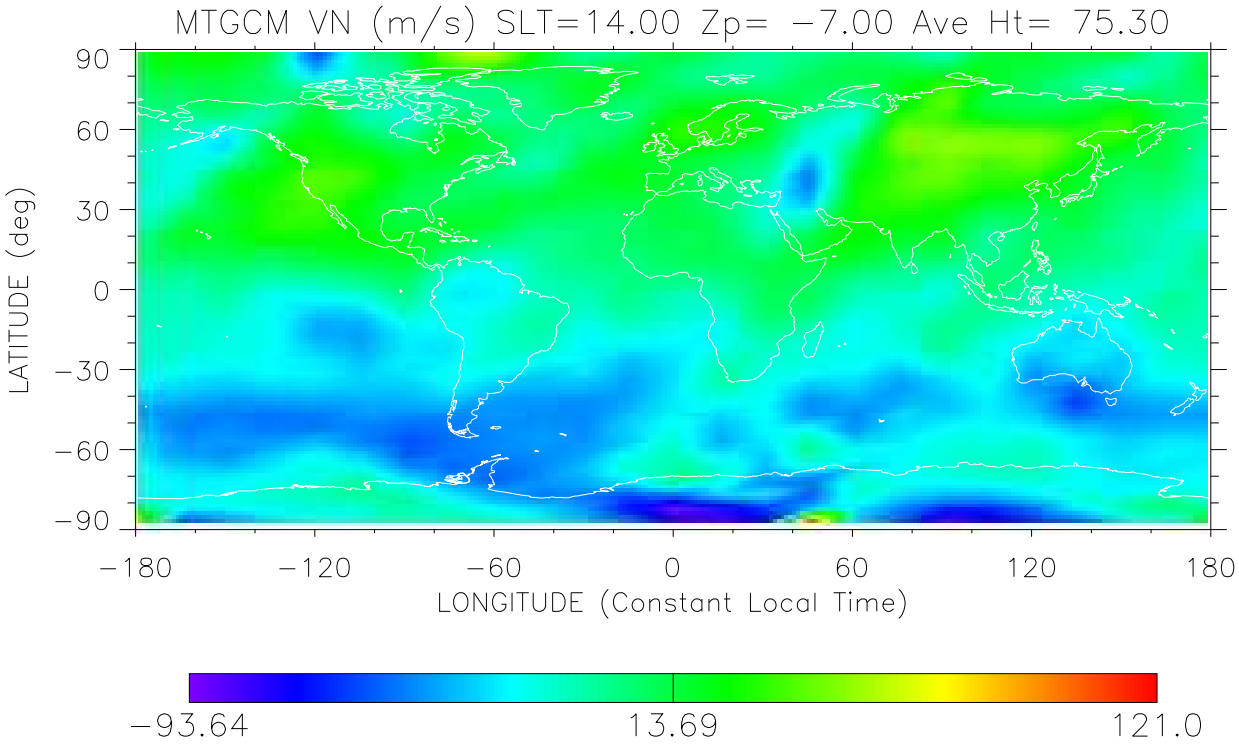

MTGCM TN (deg K) SLT=14.00 Zp= 8.00 Ave Ht=237.43
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
155.5
227.7
300.0

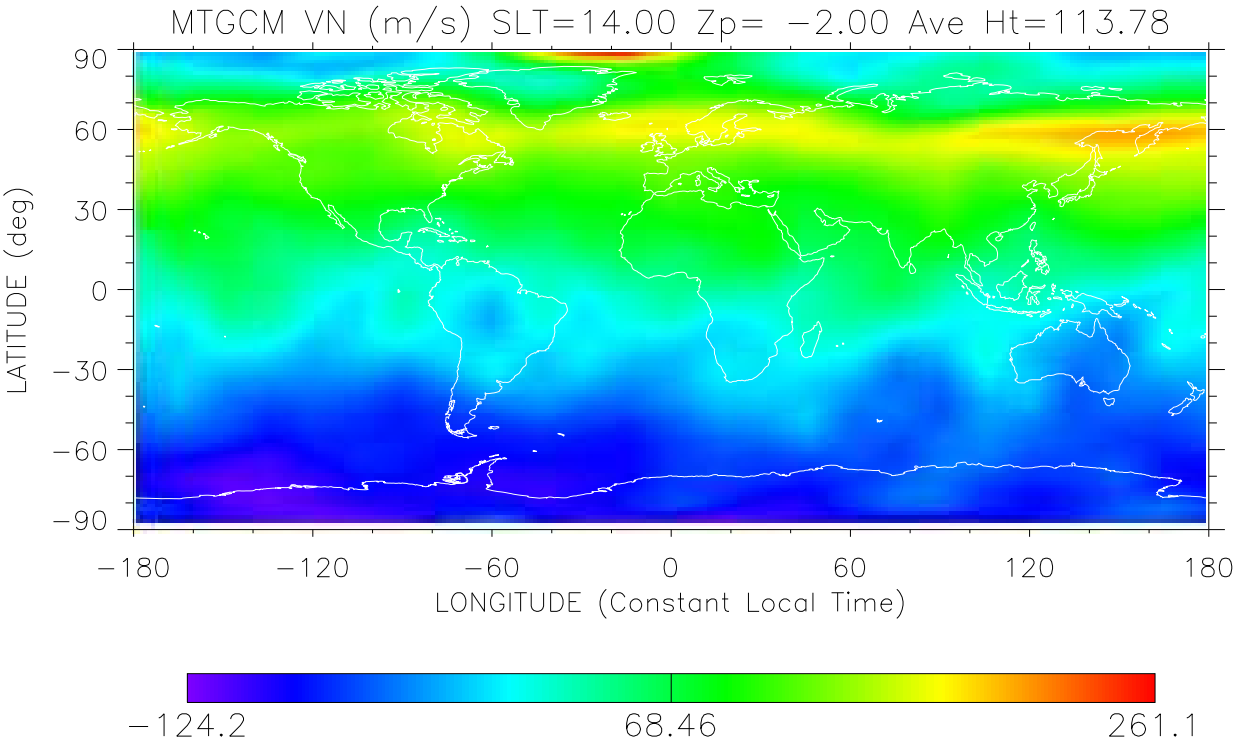

MTGCM UN (m/s) SLT=14.00 Zp= −7.00 Ave Ht= 75.30
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−119.7
17.39
154.5

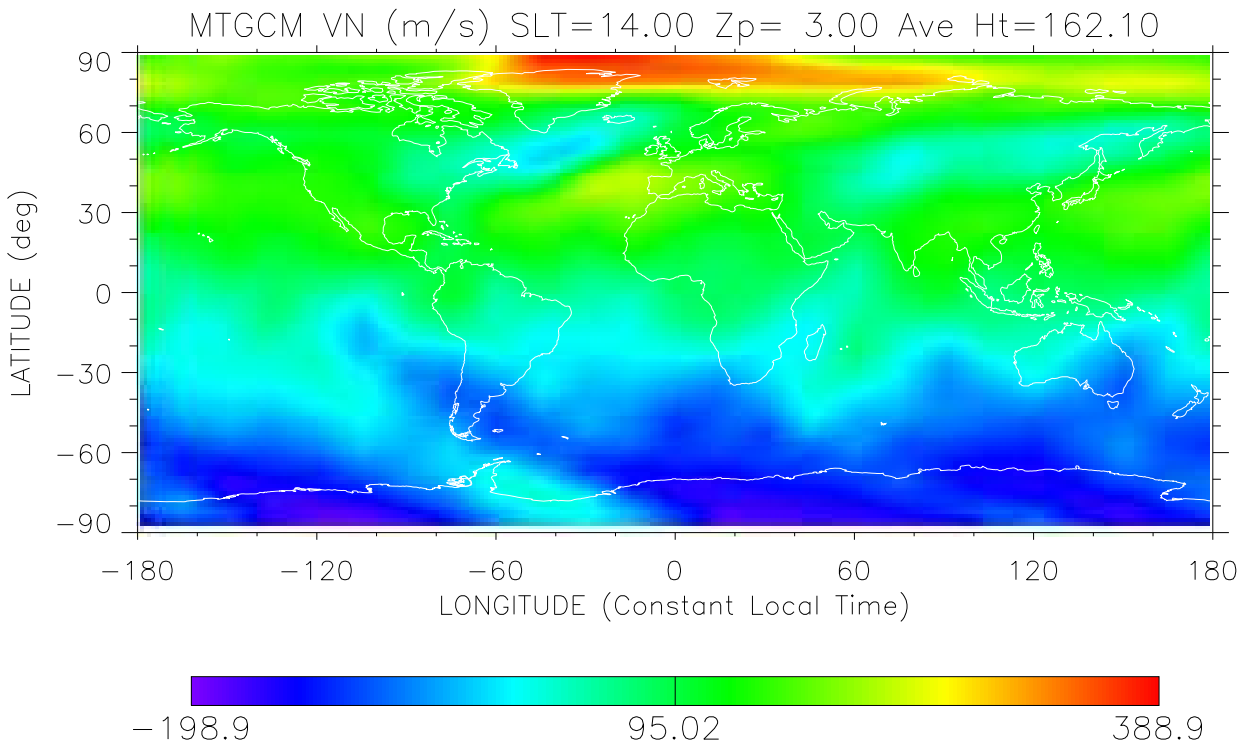

MTGCM UN (m/s) SLT=14.00 Zp= −2.00 Ave Ht=113.78
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−200.1
−7.471
185.2

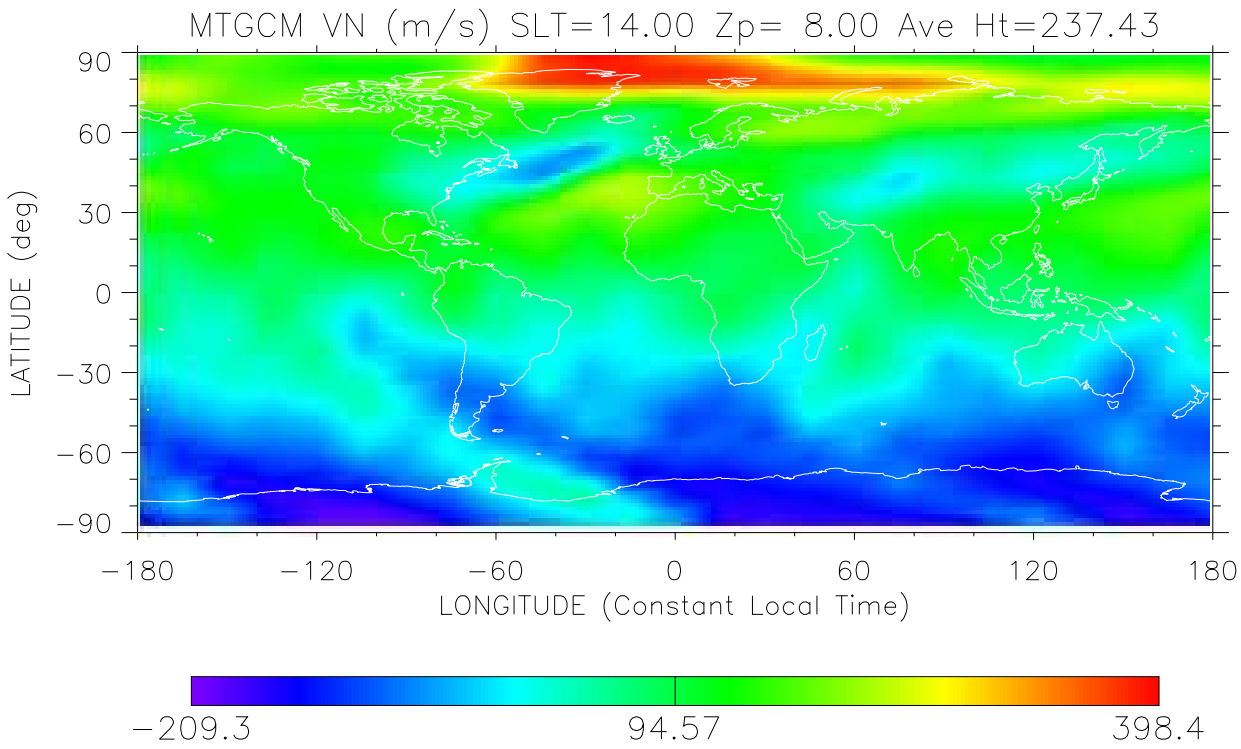

MTGCM UN (m/s) SLT=14.00 Zp= 3.00 Ave Ht=162.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−253.9
11.47
276.9

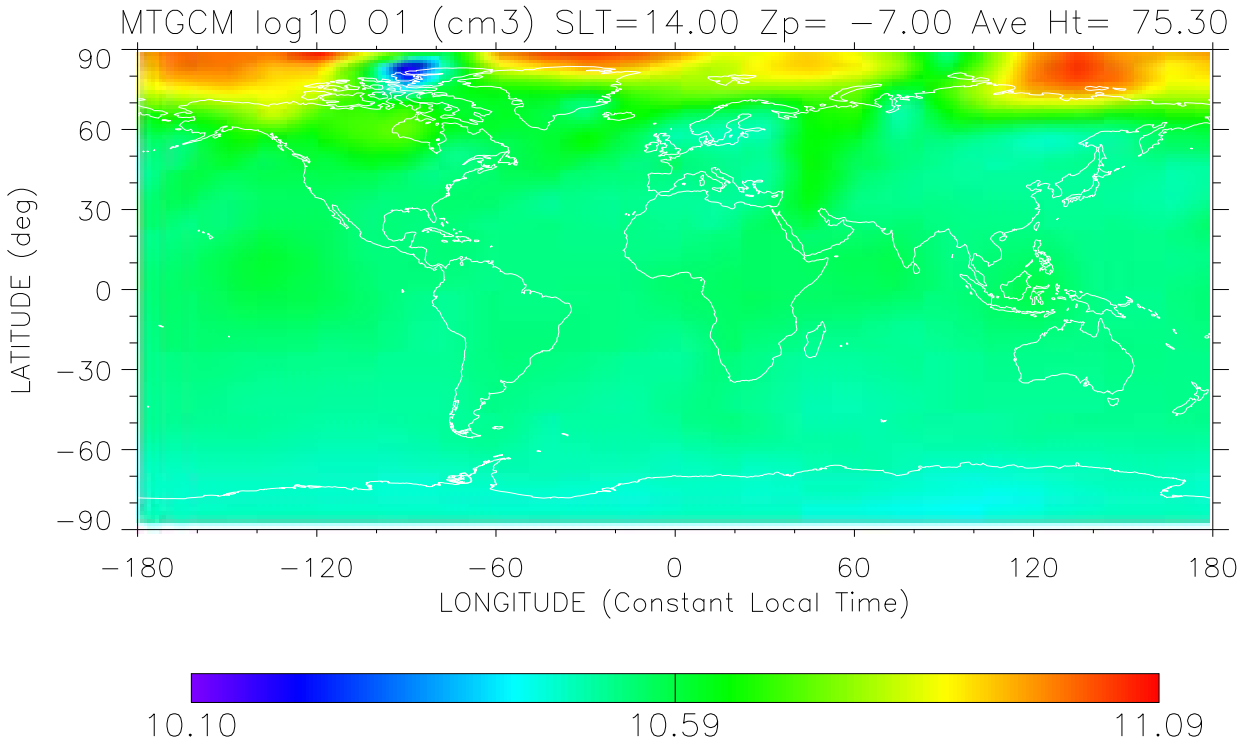

MTGCM UN (m/s) SLT=14.00 Zp= 8.00 Ave Ht=237.43
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−259.4
15.57
290.6

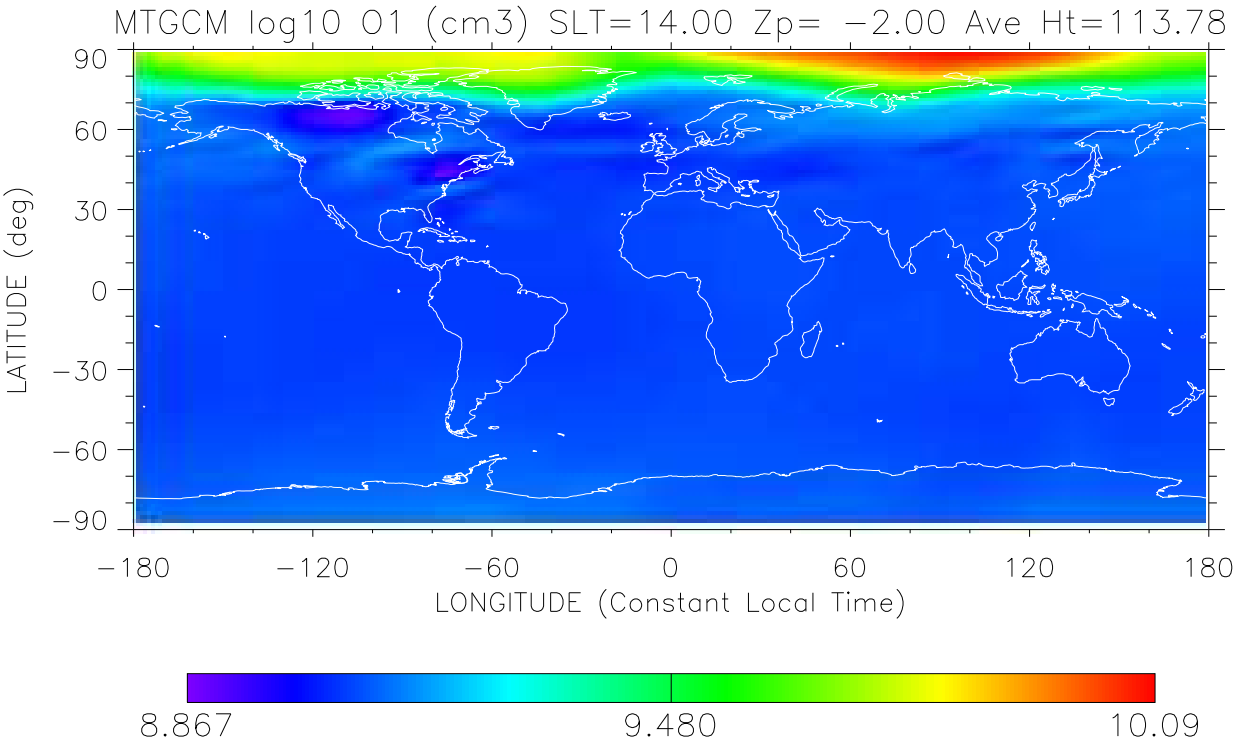

MTGCM VN (m/s) SLT=14.00 Zp= −7.00 Ave Ht= 75.30
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−93.64
13.69
121.0

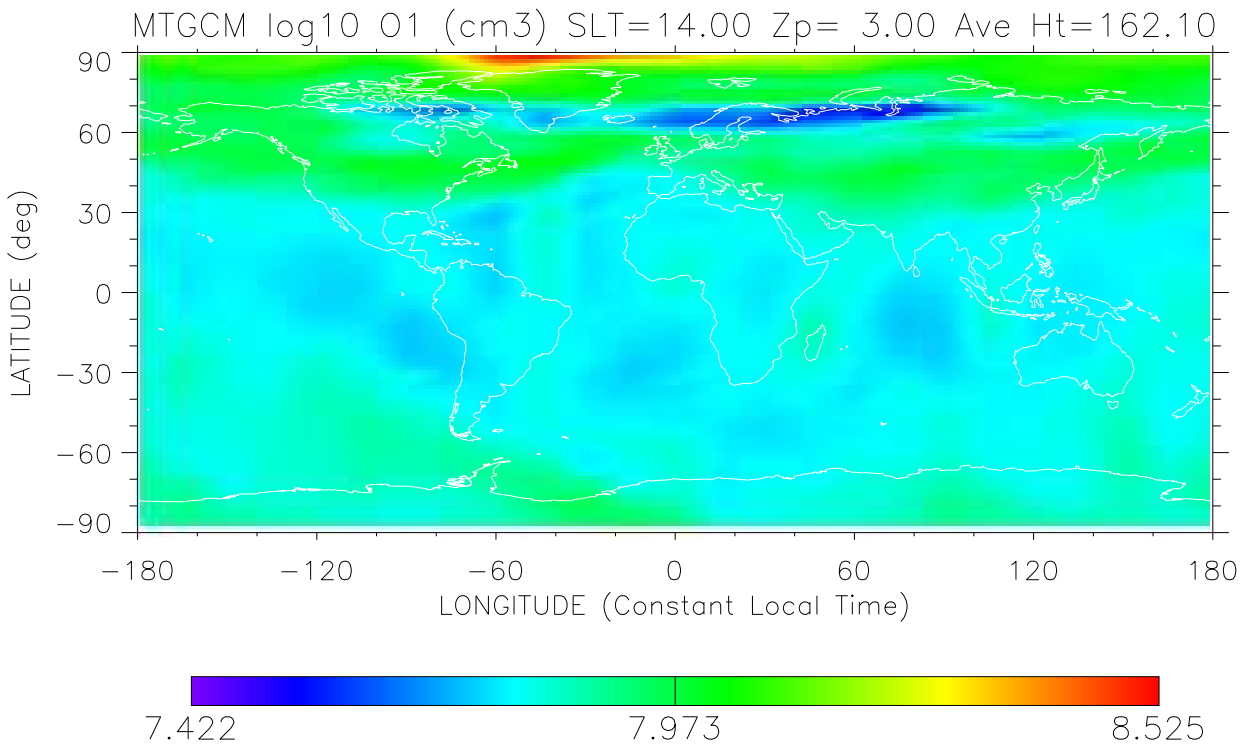

MTGCM VN (m/s) SLT=14.00 Zp= −2.00 Ave Ht=113.78
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−124.2
68.46
261.1

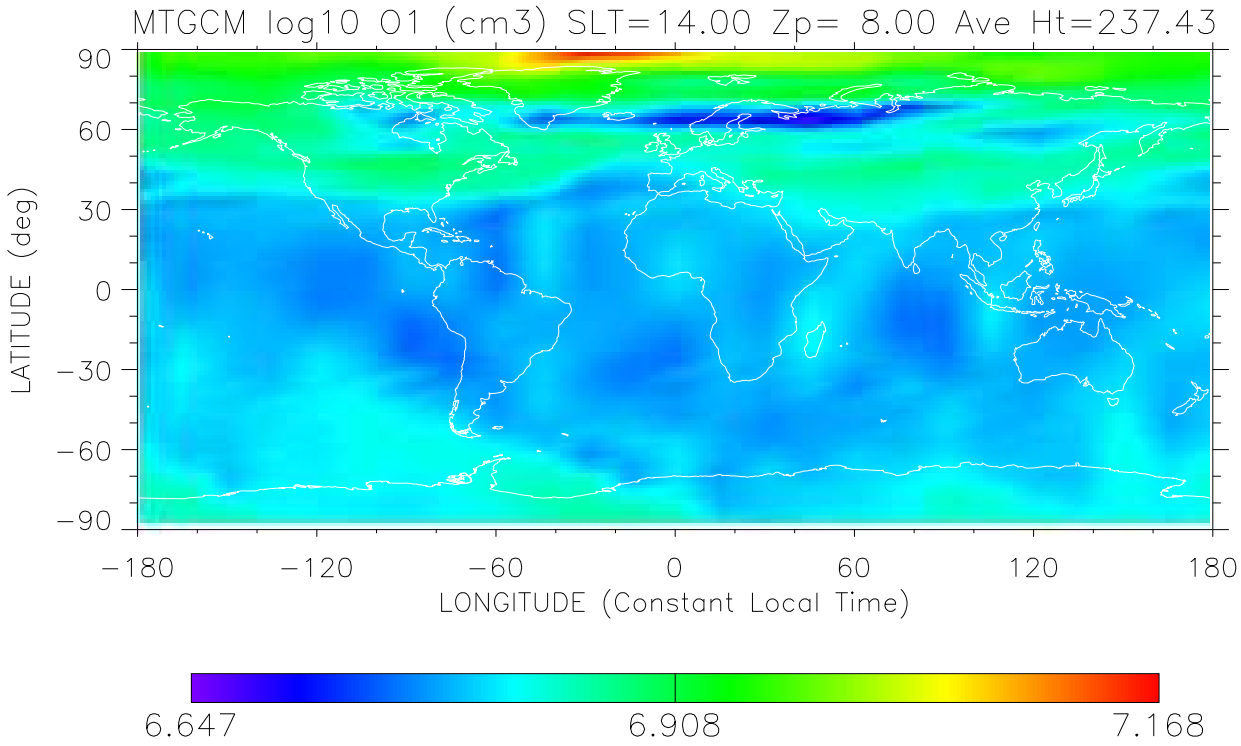

MTGCM VN (m/s) SLT=14.00 Zp= 3.00 Ave Ht=162.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−198.9
95.02
388.9

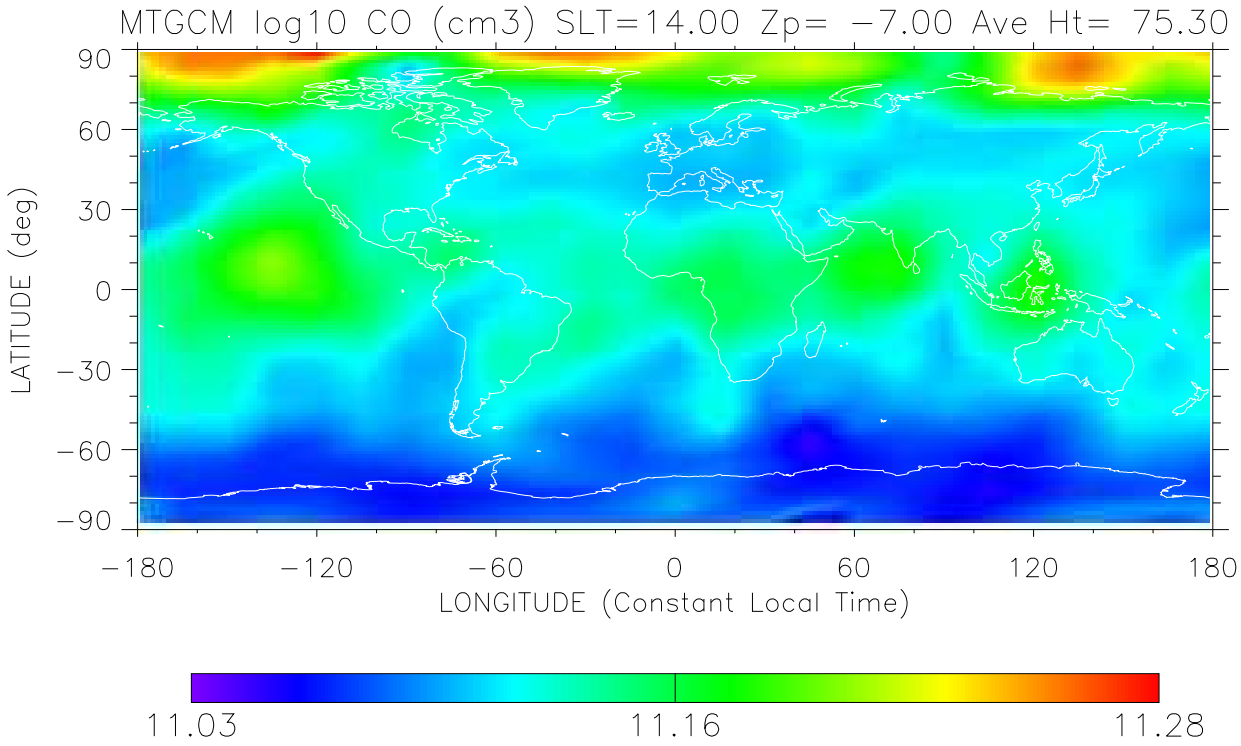

MTGCM VN (m/s) SLT=14.00 Zp= 8.00 Ave Ht=237.43
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−209.3
94.57
398.4

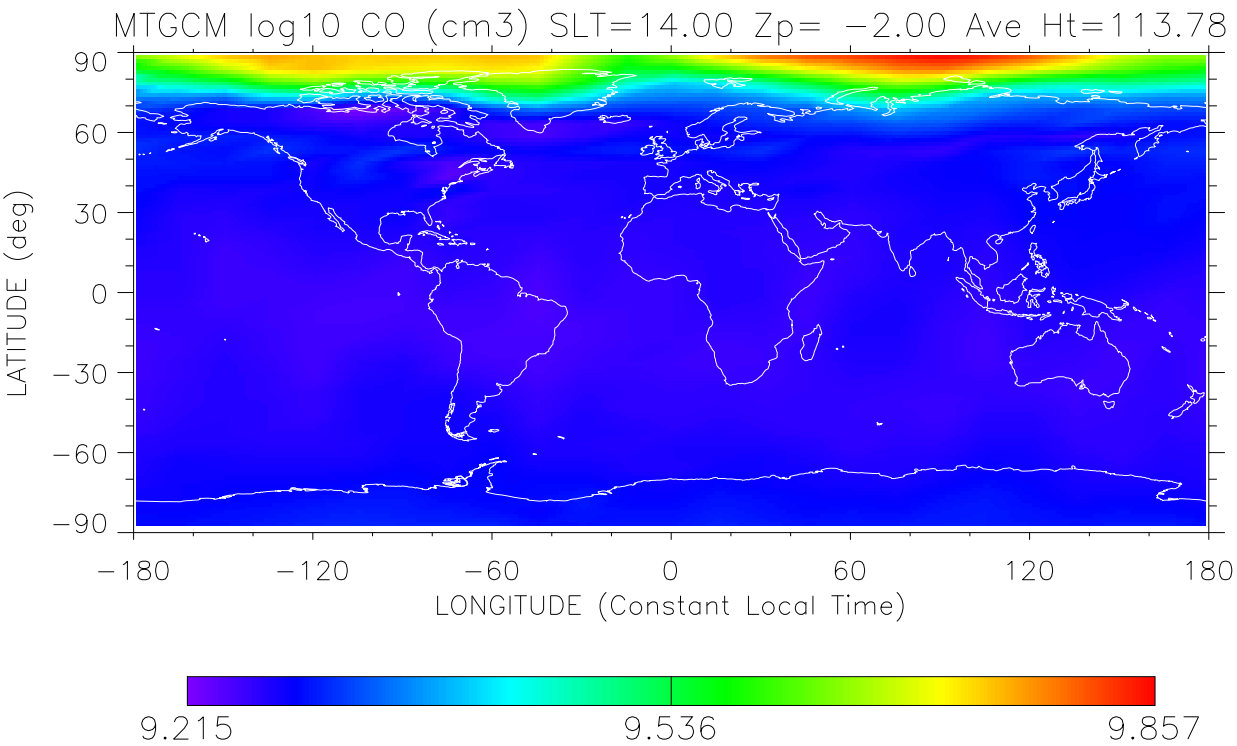

MTGCM log10 O1 (cm3) SLT=14.00 Zp= −7.00 Ave Ht= 75.30
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
10.10
10.59
11.09

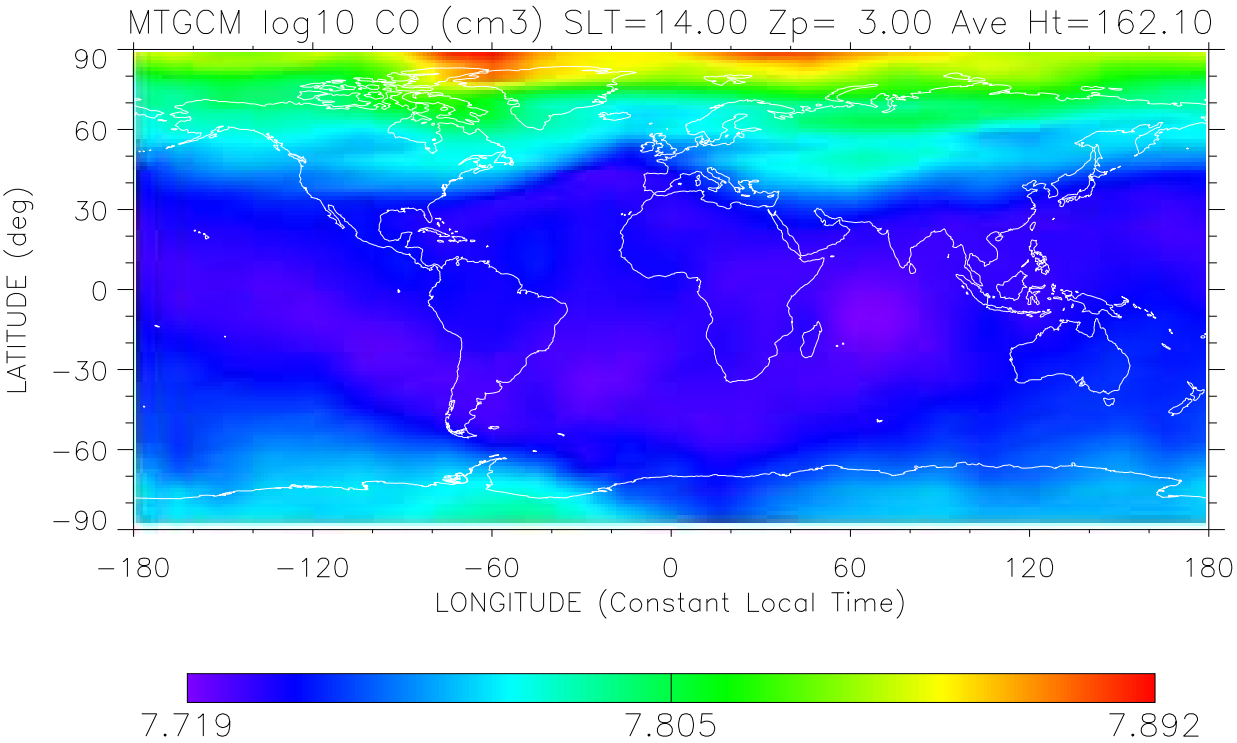

MTGCM log10 O1 (cm3) SLT=14.00 Zp= −2.00 Ave Ht=113.78
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
8.867
9.480
10.09

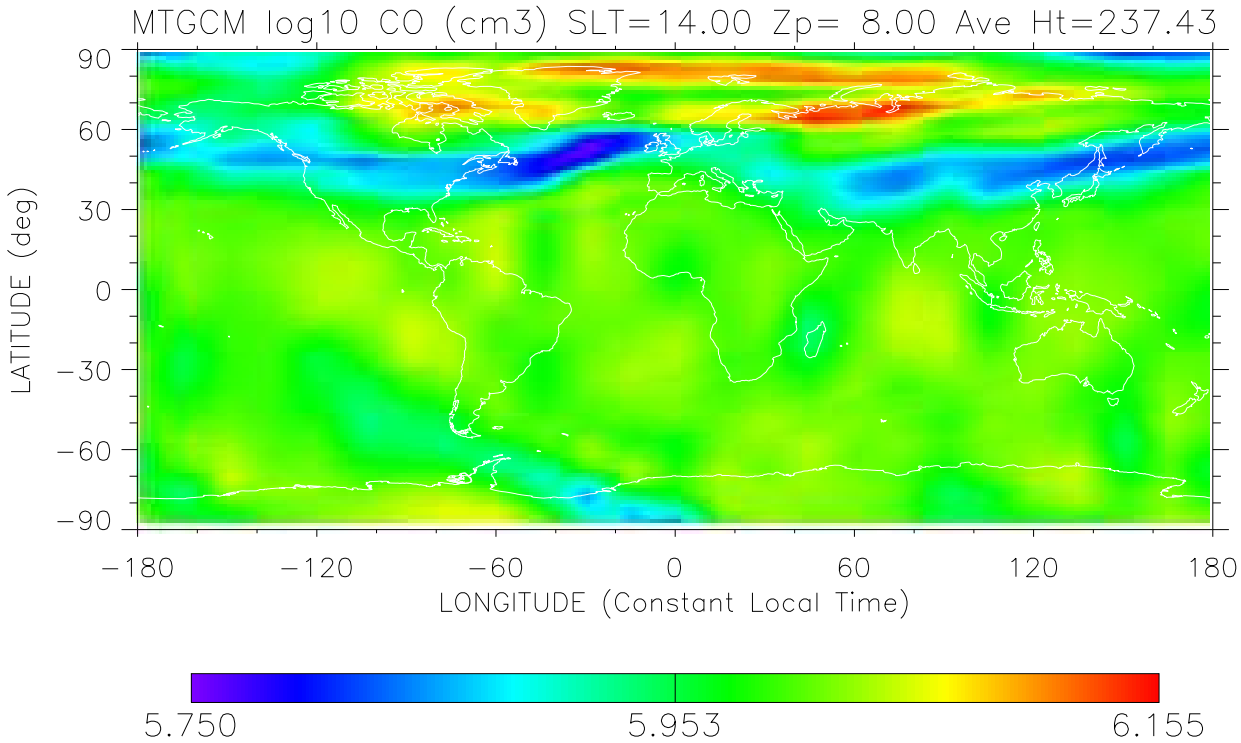

MTGCM log10 O1 (cm3) SLT=14.00 Zp= 3.00 Ave Ht=162.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
7.422
7.973
8.525

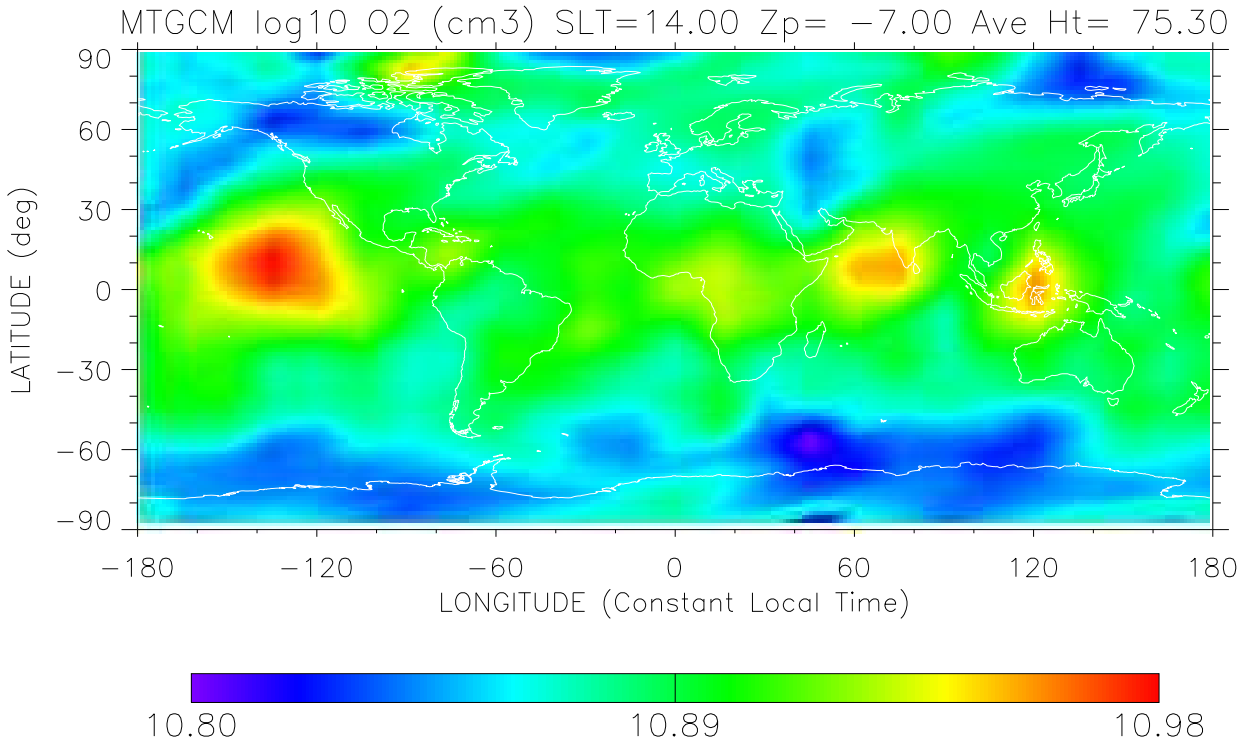

MTGCM log10 O1 (cm3) SLT=14.00 Zp= 8.00 Ave Ht=237.43
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
6.647
6.908
7.168

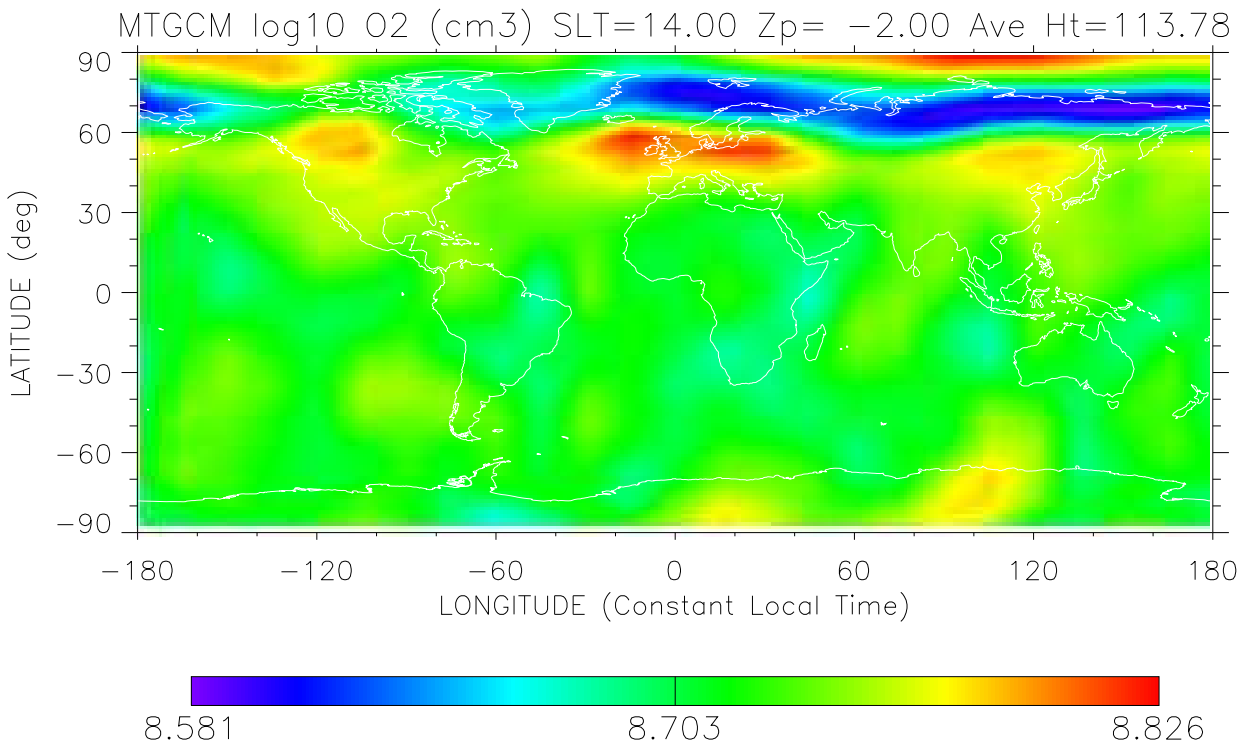

MTGCM log10 CO (cm3) SLT=14.00 Zp= −7.00 Ave Ht= 75.30
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
11.03
11.16
11.28

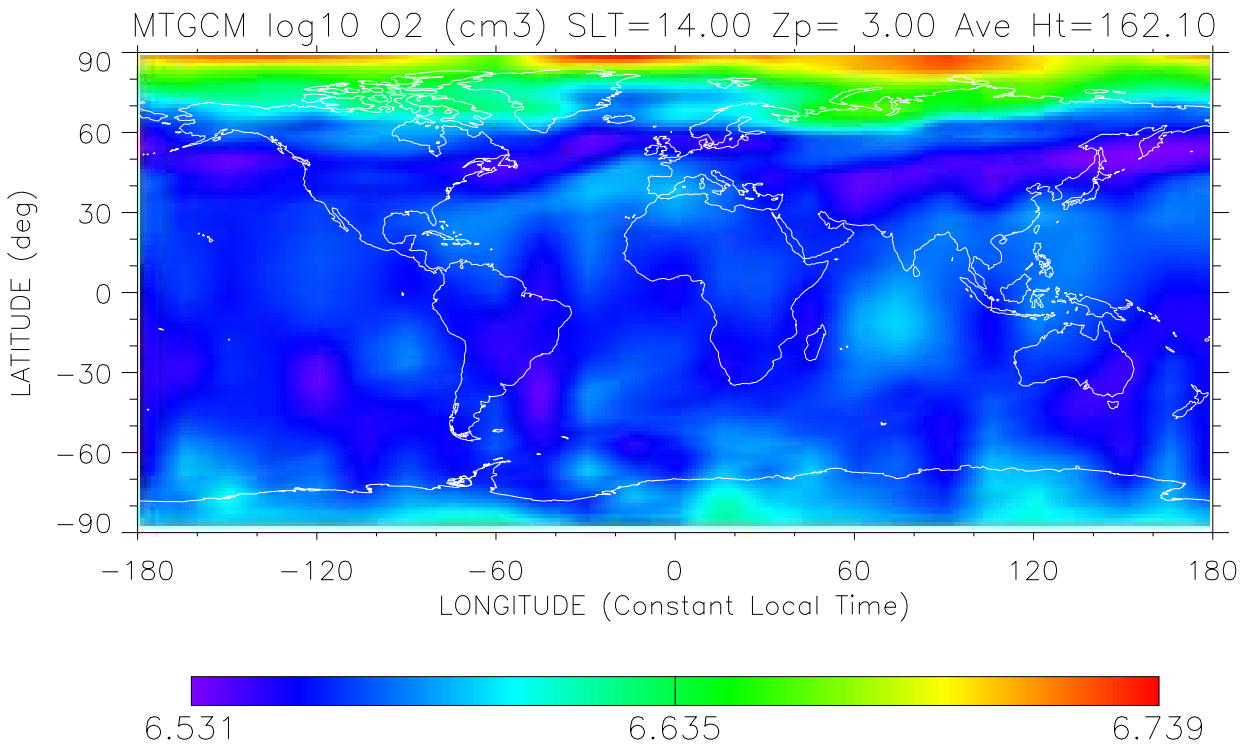

MTGCM log10 CO (cm3) SLT=14.00 Zp= −2.00 Ave Ht=113.78
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
9.215
9.536
9.857

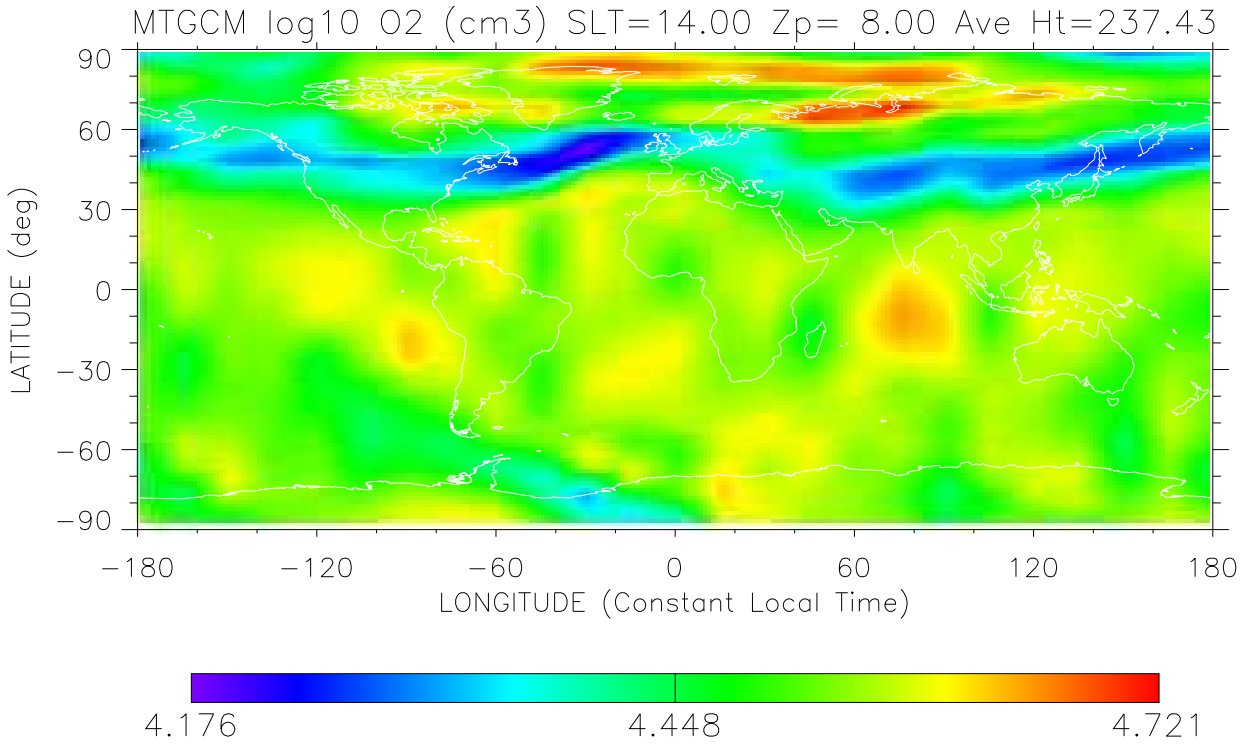

MTGCM log10 CO (cm3) SLT=14.00 Zp= 3.00 Ave Ht=162.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
7.719
7.805
7.892

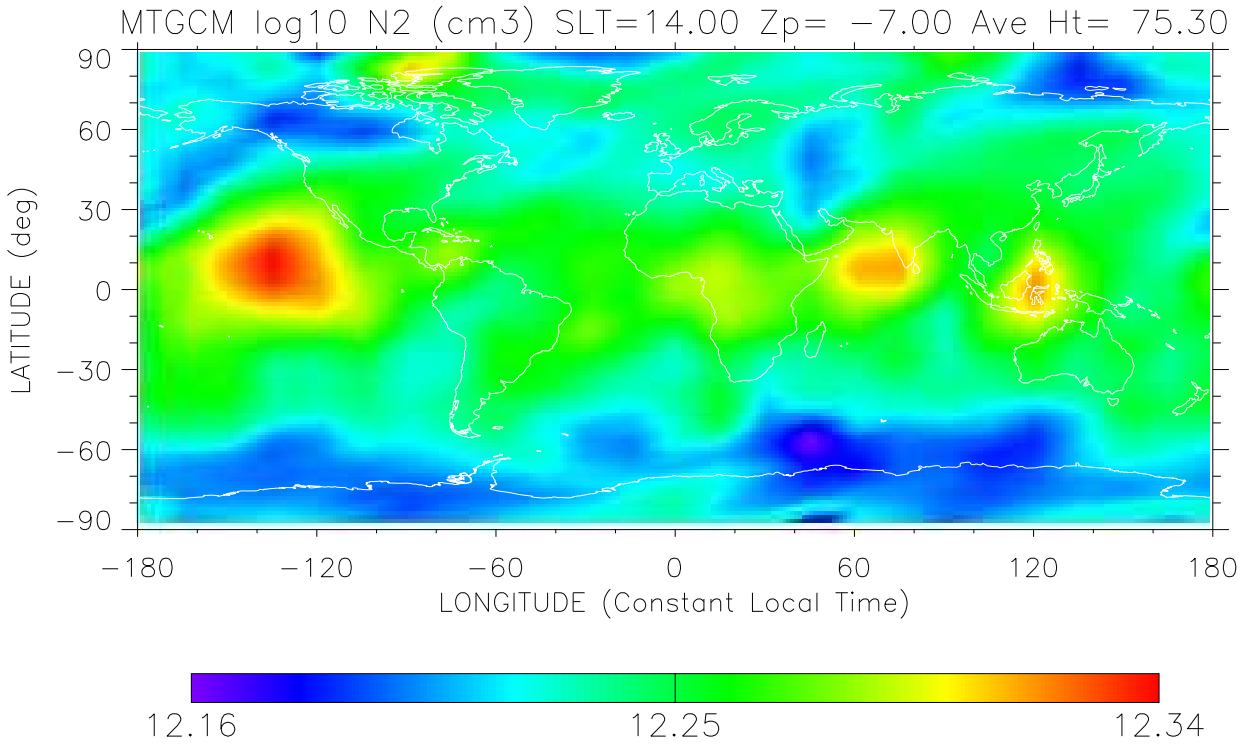

MTGCM log10 CO (cm3) SLT=14.00 Zp= 8.00 Ave Ht=237.43
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
5.750
5.953
6.155

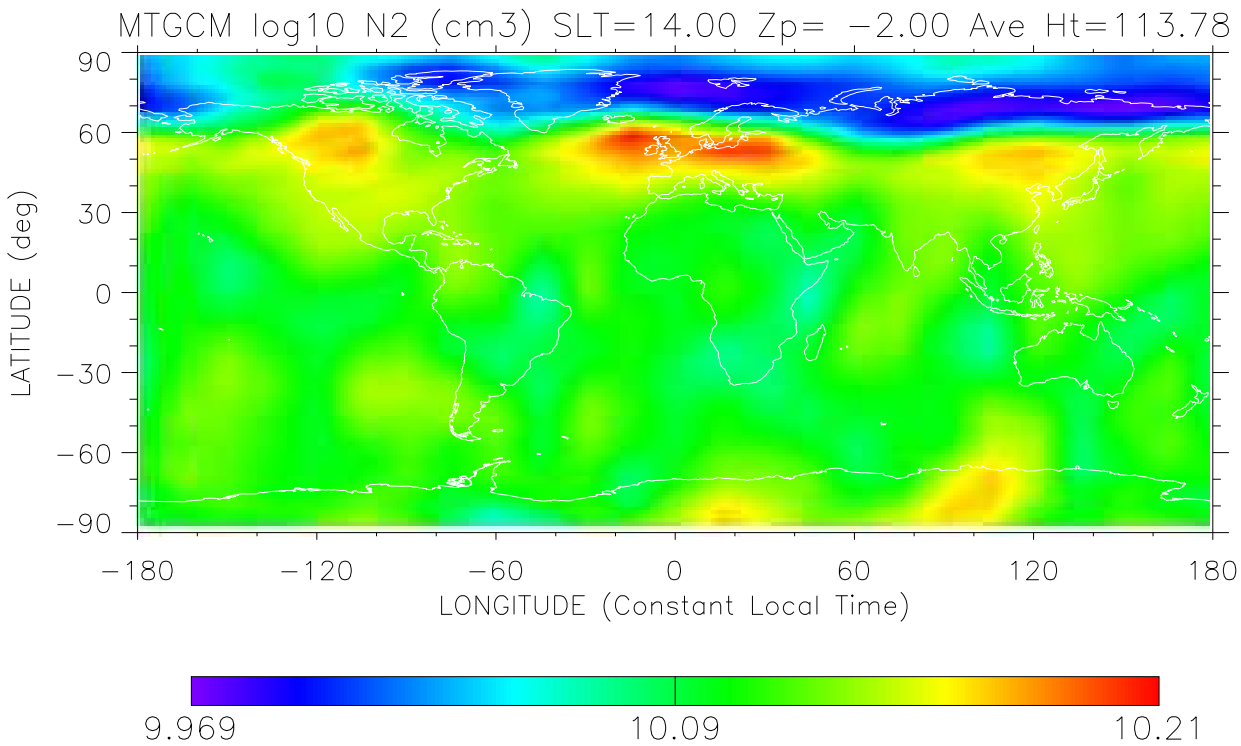

MTGCM log10 O2 (cm3) SLT=14.00 Zp= −7.00 Ave Ht= 75.30
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
10.80
10.89
10.98

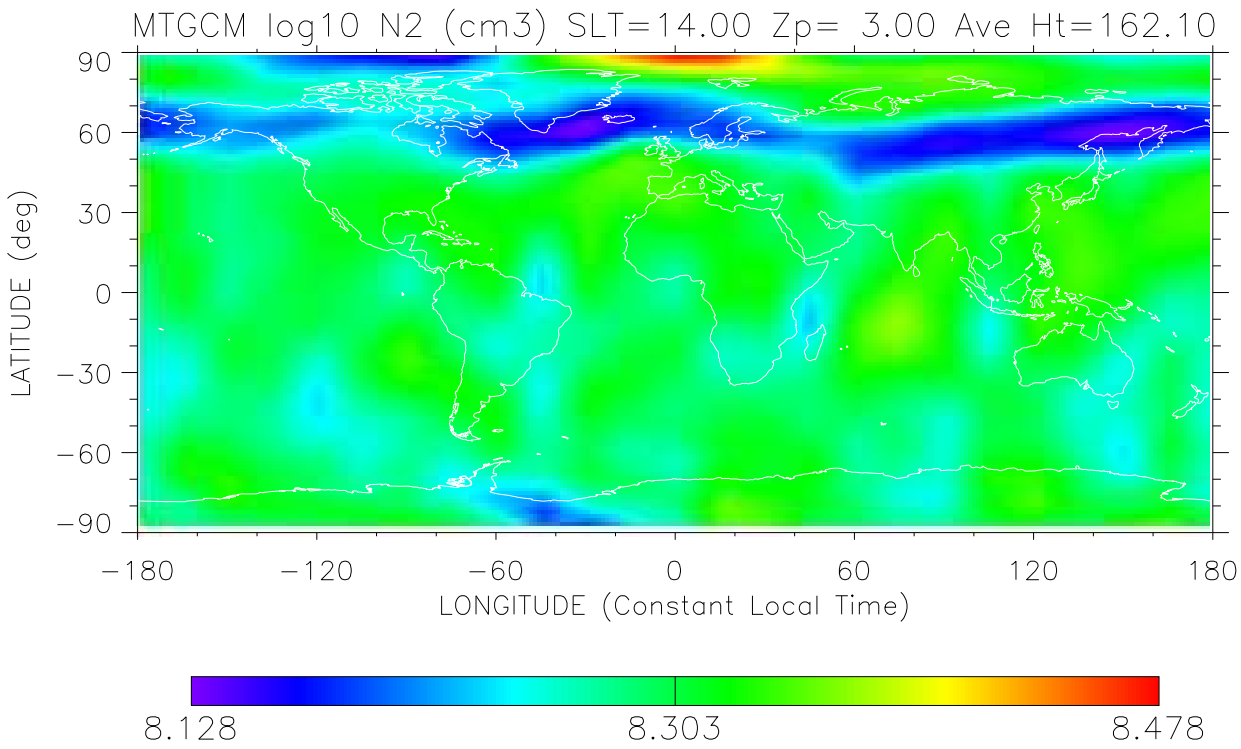

MTGCM log10 O2 (cm3) SLT=14.00 Zp= −2.00 Ave Ht=113.78
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
8.581
8.703
8.826

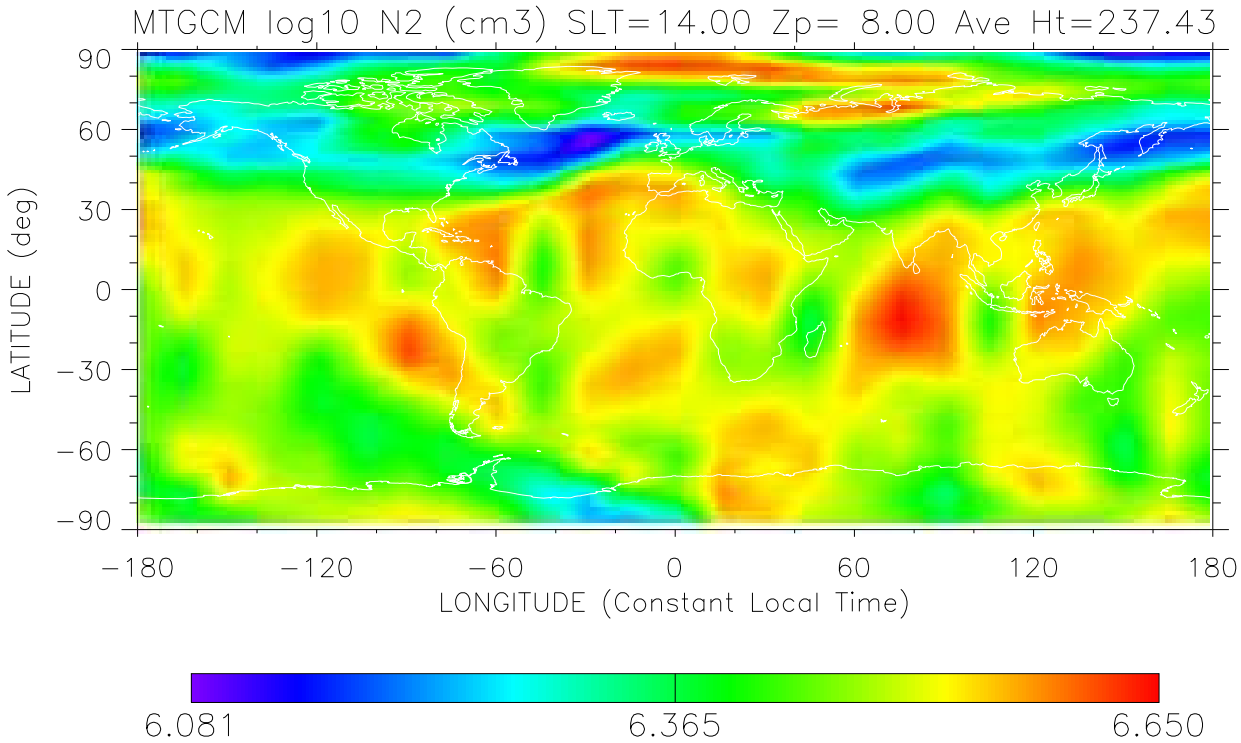

MTGCM log10 O2 (cm3) SLT=14.00 Zp= 3.00 Ave Ht=162.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
6.531
6.635
6.739

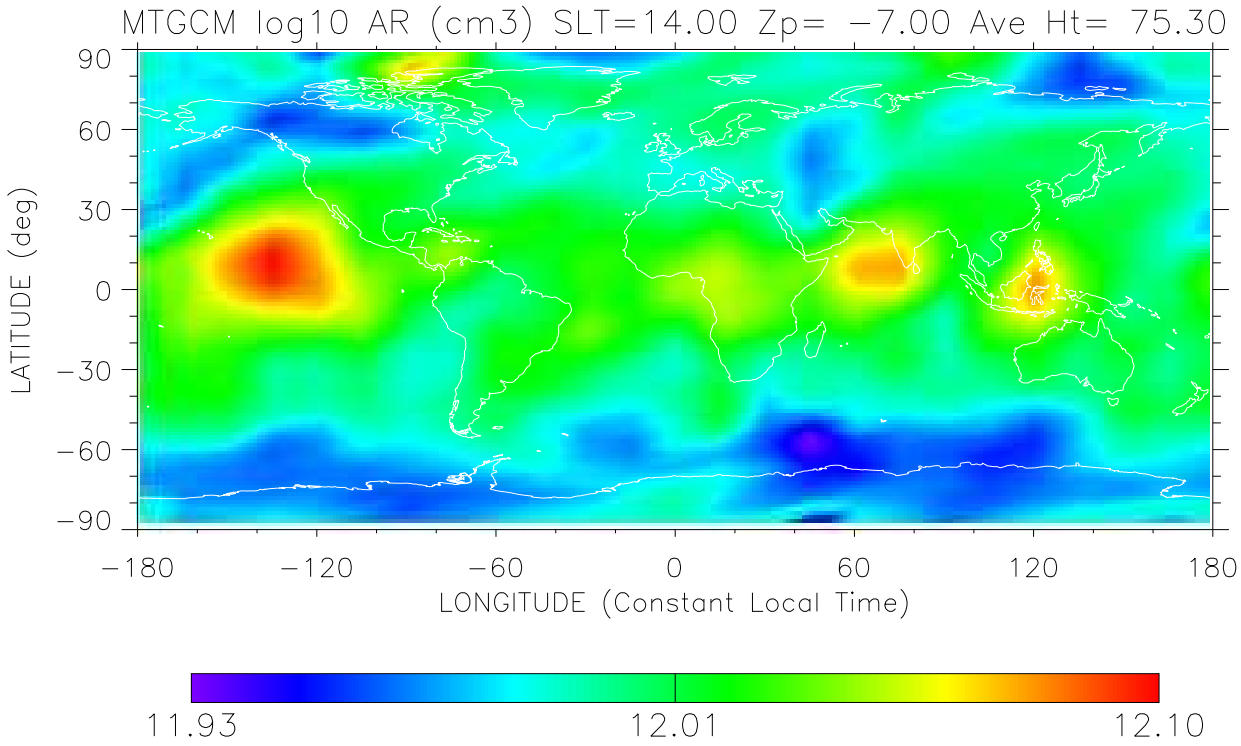

MTGCM log10 O2 (cm3) SLT=14.00 Zp= 8.00 Ave Ht=237.43
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
4.176
4.448
4.721

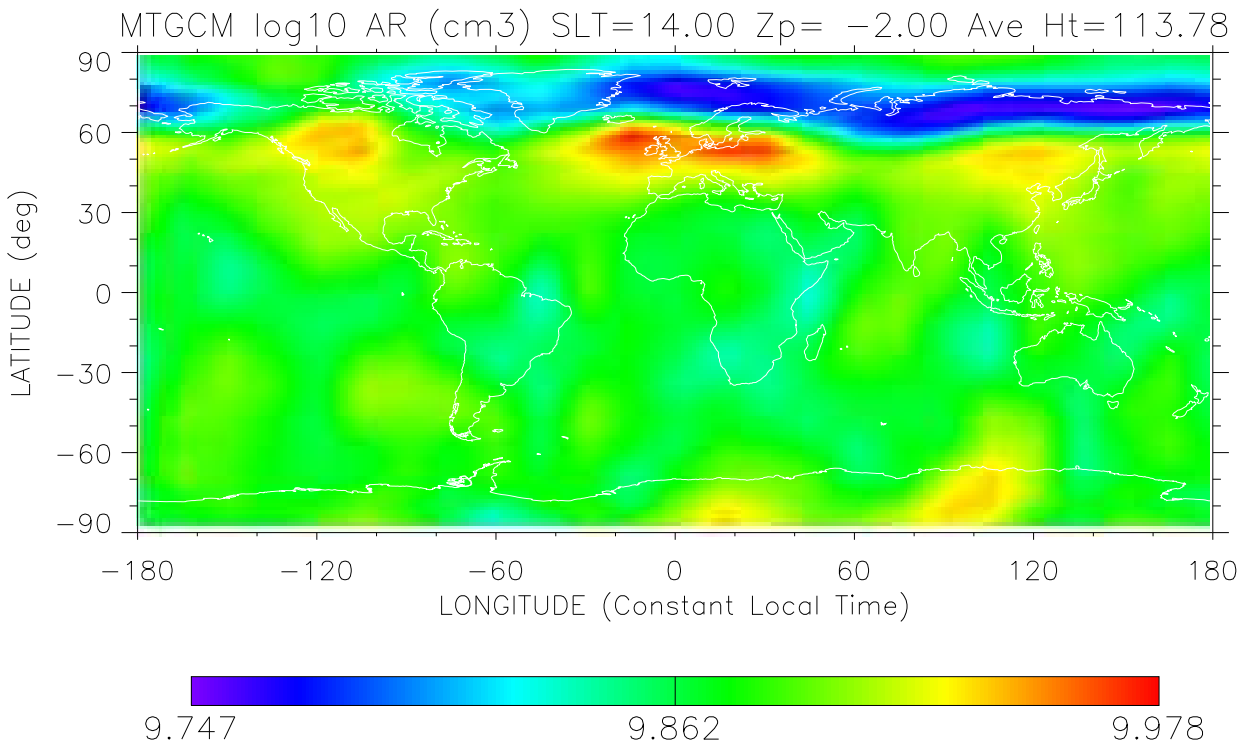

MTGCM log10 N2 (cm3) SLT=14.00 Zp= −7.00 Ave Ht= 75.30
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
12.16
12.25
12.34

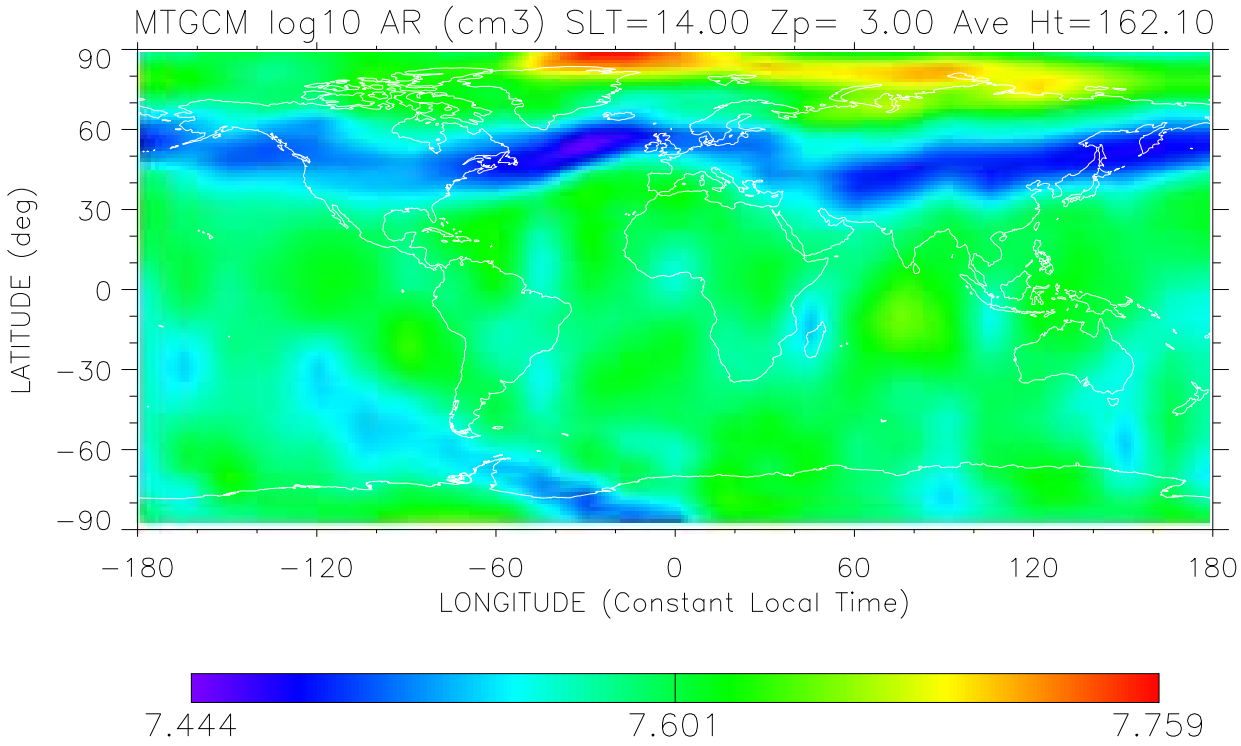

MTGCM log10 N2 (cm3) SLT=14.00 Zp= −2.00 Ave Ht=113.78
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
9.969
10.09
10.21

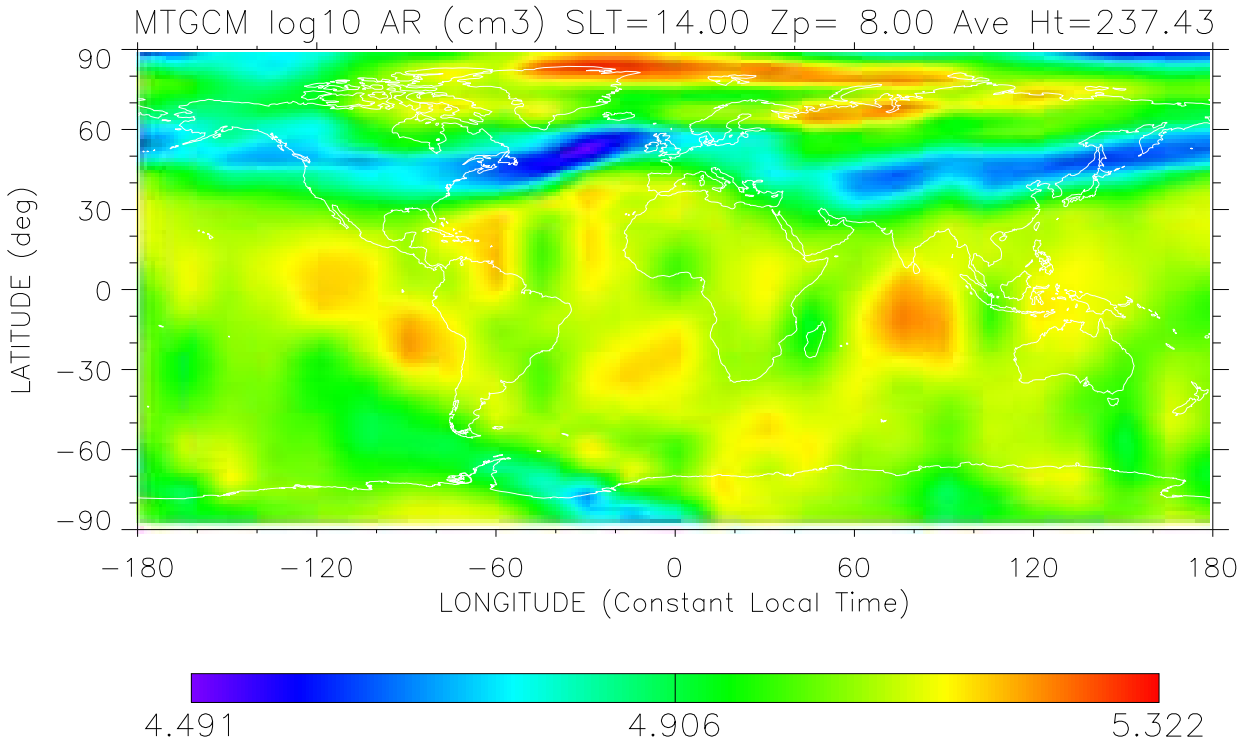

MTGCM log10 N2 (cm3) SLT=14.00 Zp= 3.00 Ave Ht=162.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
8.128
8.303
8.478

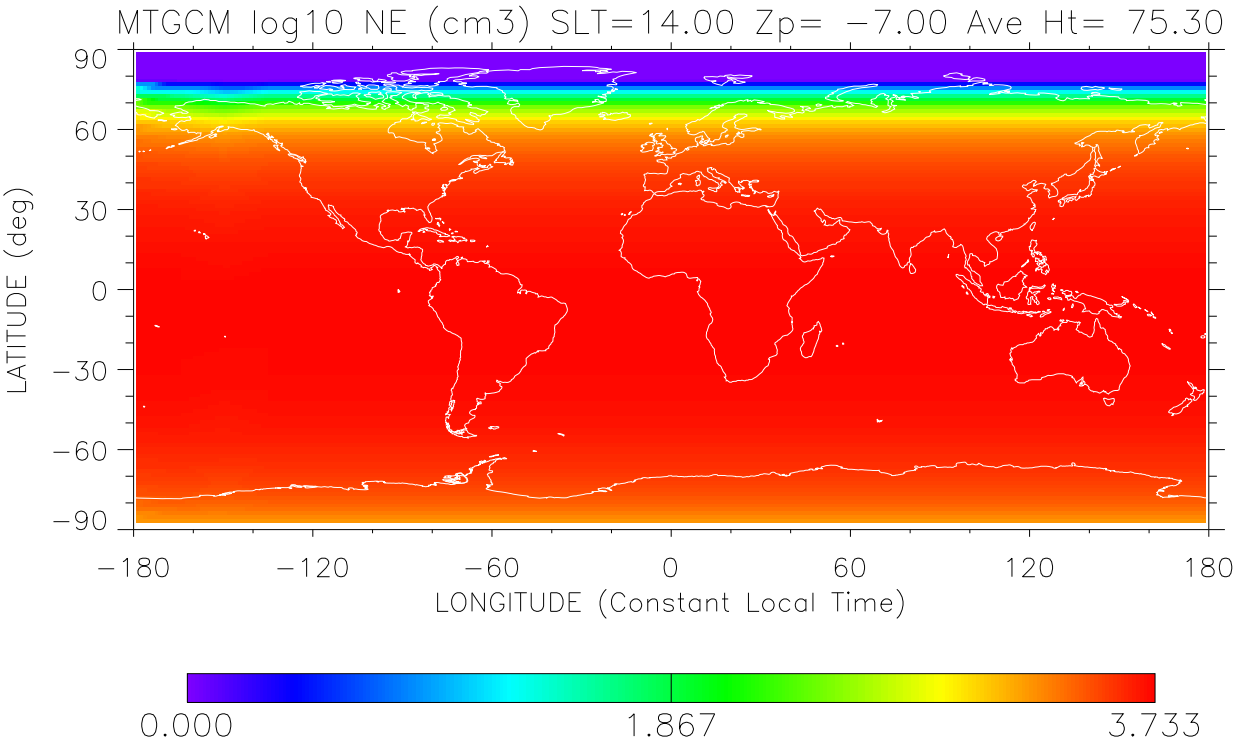

MTGCM log10 N2 (cm3) SLT=14.00 Zp= 8.00 Ave Ht=237.43
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
6.081
6.365
6.650

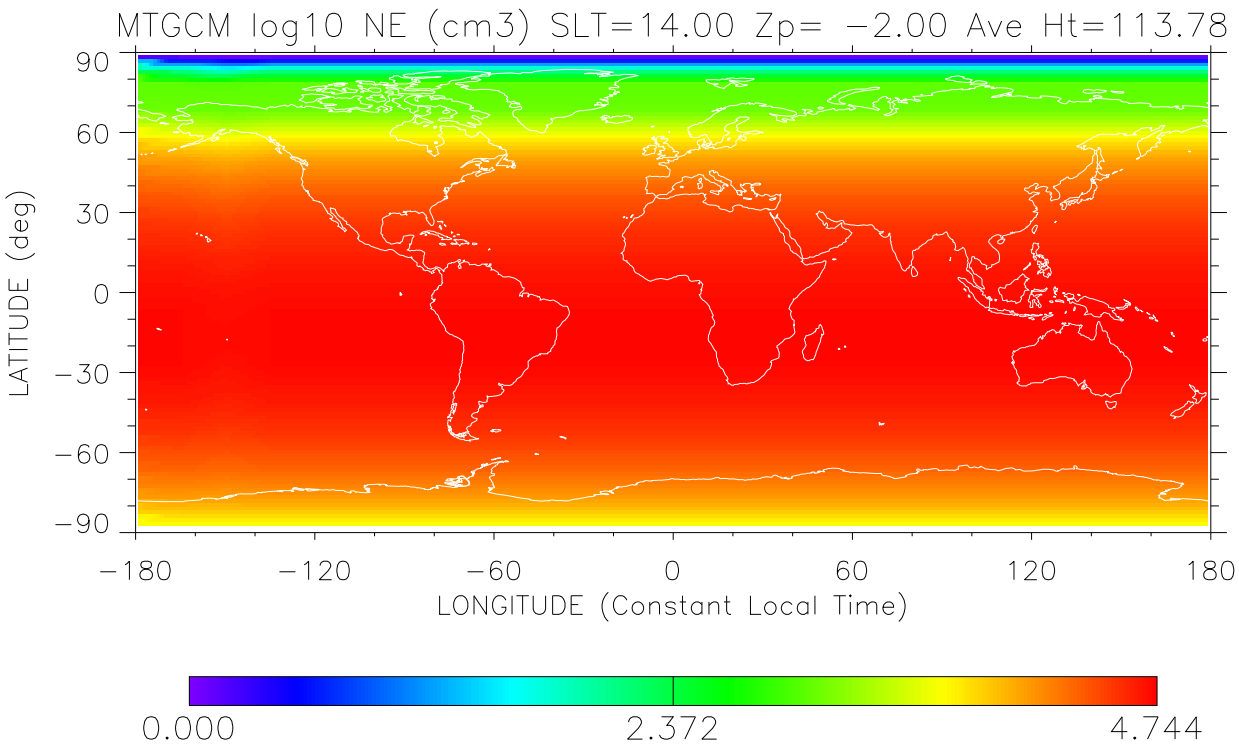

MTGCM log10 AR (cm3) SLT=14.00 Zp= −7.00 Ave Ht= 75.30
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
11.93
12.01
12.10

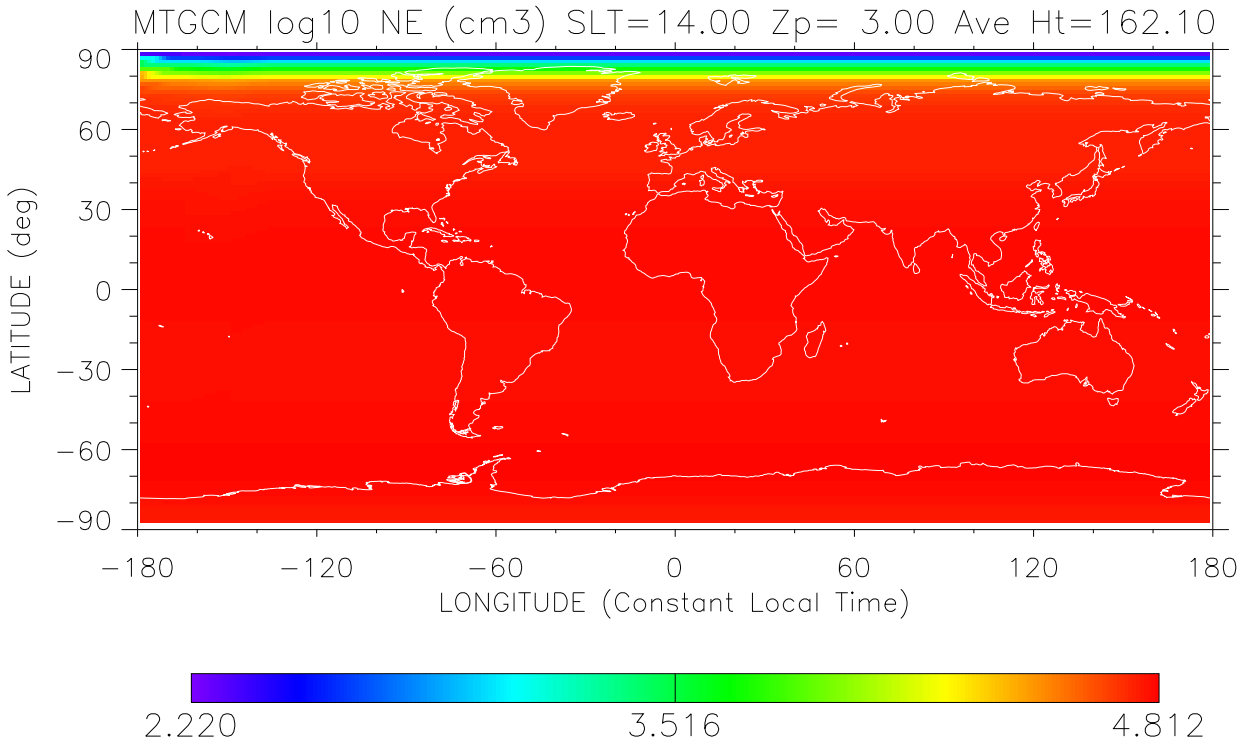

MTGCM log10 AR (cm3) SLT=14.00 Zp= −2.00 Ave Ht=113.78
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
9.747
9.862
9.978

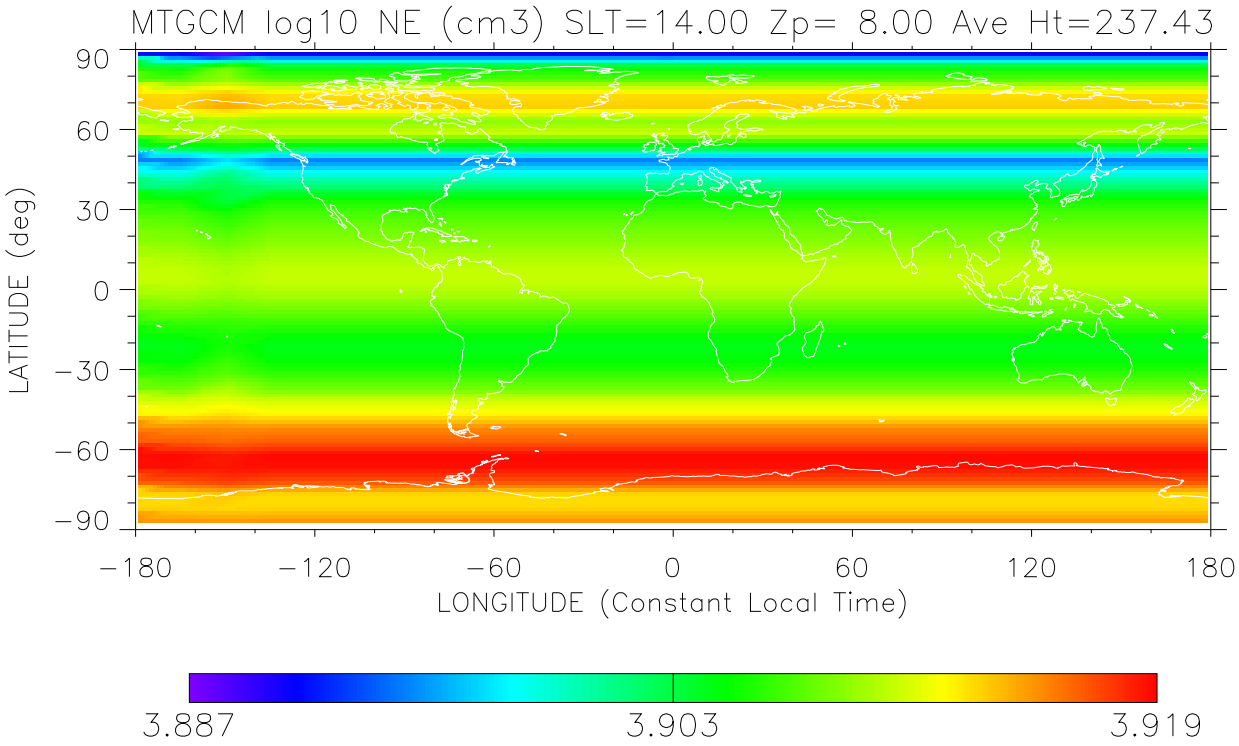

MTGCM log10 AR (cm3) SLT=14.00 Zp= 3.00 Ave Ht=162.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
7.444
7.601
7.759

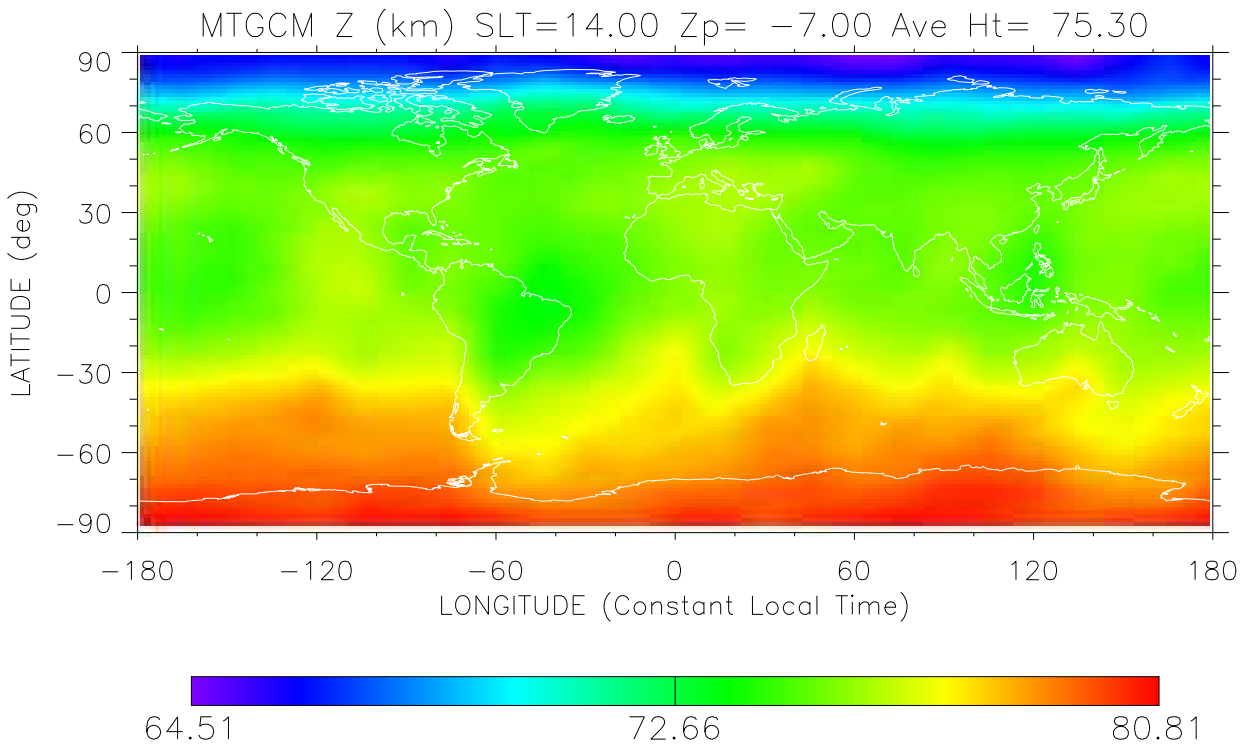

MTGCM log10 AR (cm3) SLT=14.00 Zp= 8.00 Ave Ht=237.43
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
4.491
4.906
5.322

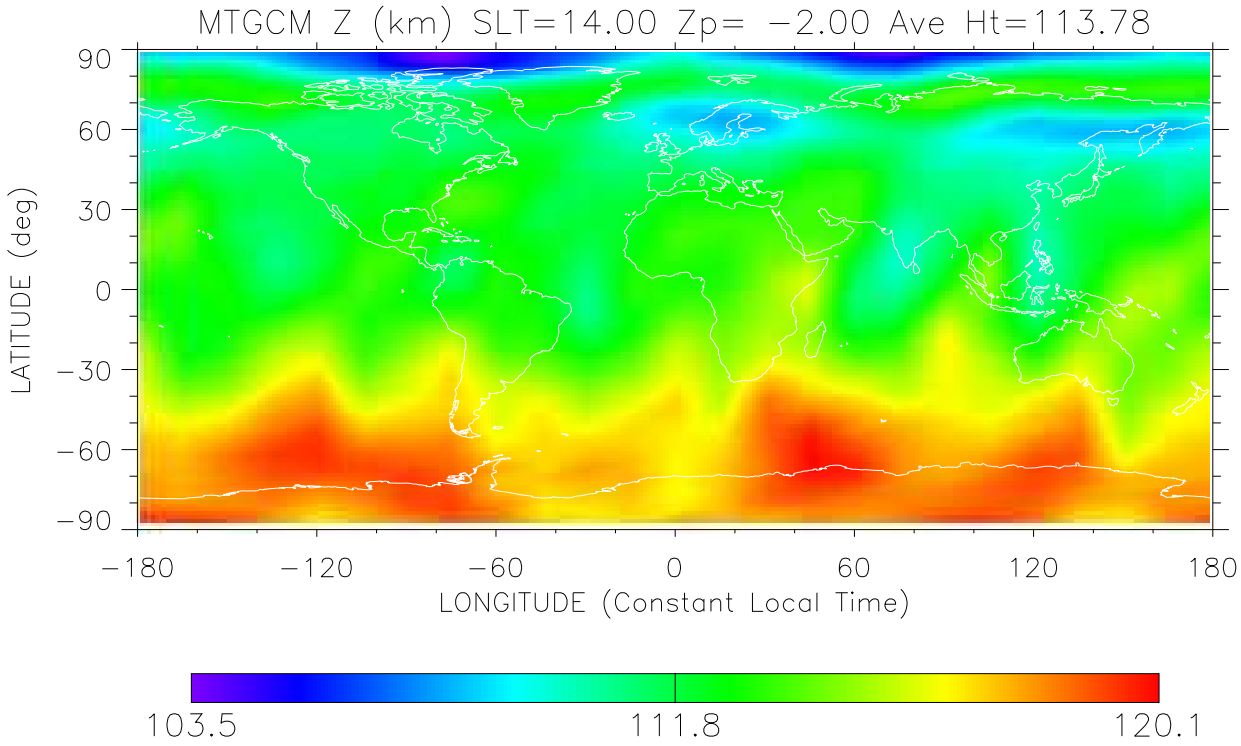

MTGCM log10 NE (cm3) SLT=14.00 Zp= −7.00 Ave Ht= 75.30
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
0.000
1.867
3.733

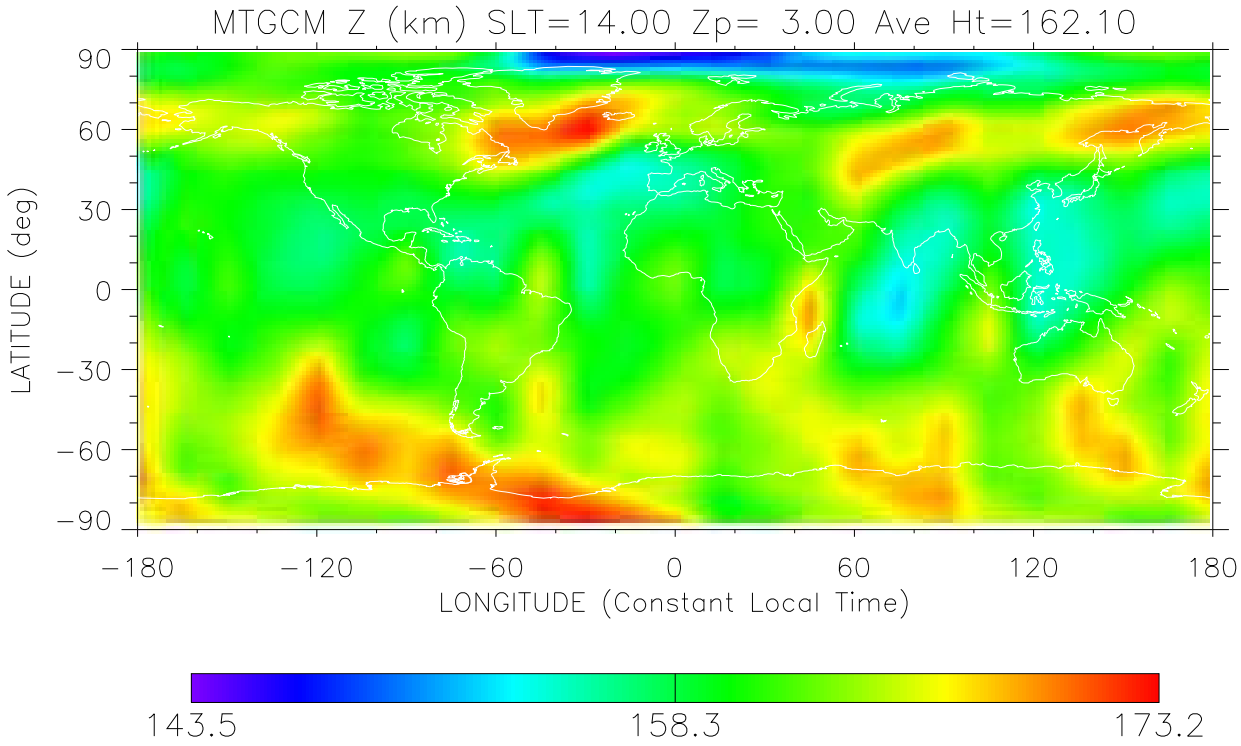

MTGCM log10 NE (cm3) SLT=14.00 Zp= −2.00 Ave Ht=113.78
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
0.000
2.372
4.744

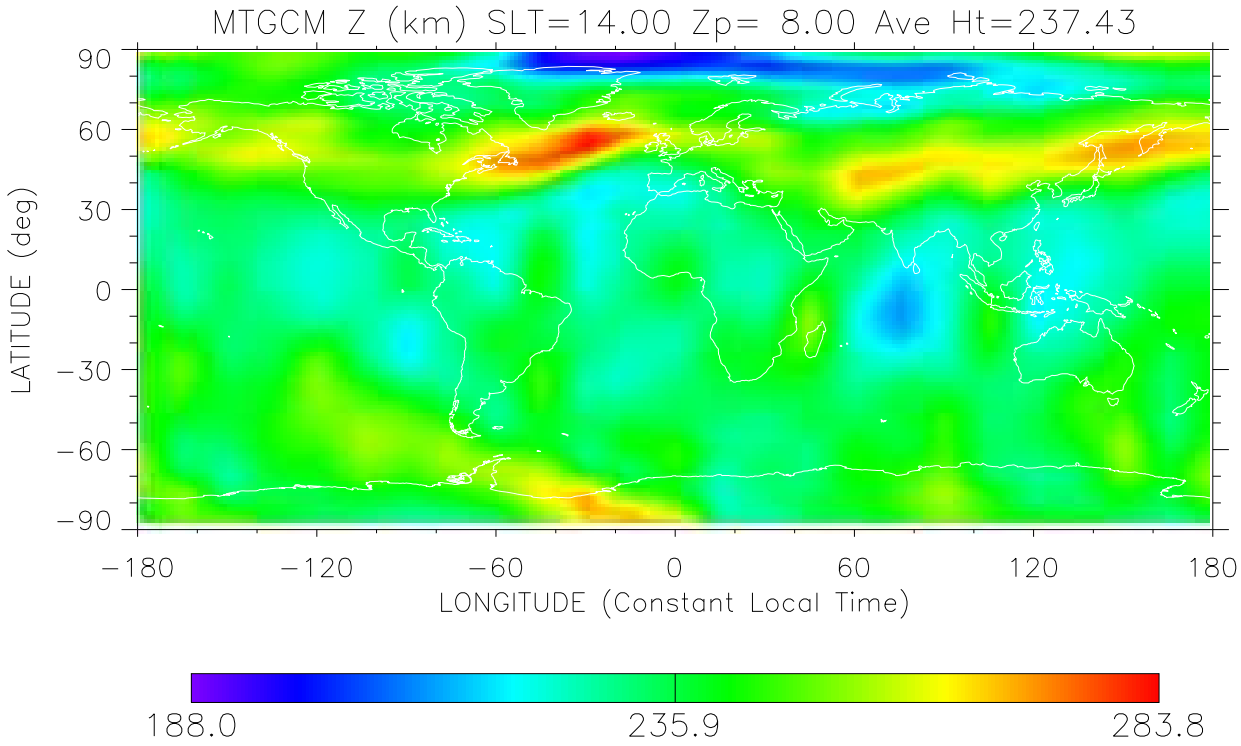

MTGCM log10 NE (cm3) SLT=14.00 Zp= 3.00 Ave Ht=162.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
2.220
3.516
4.812

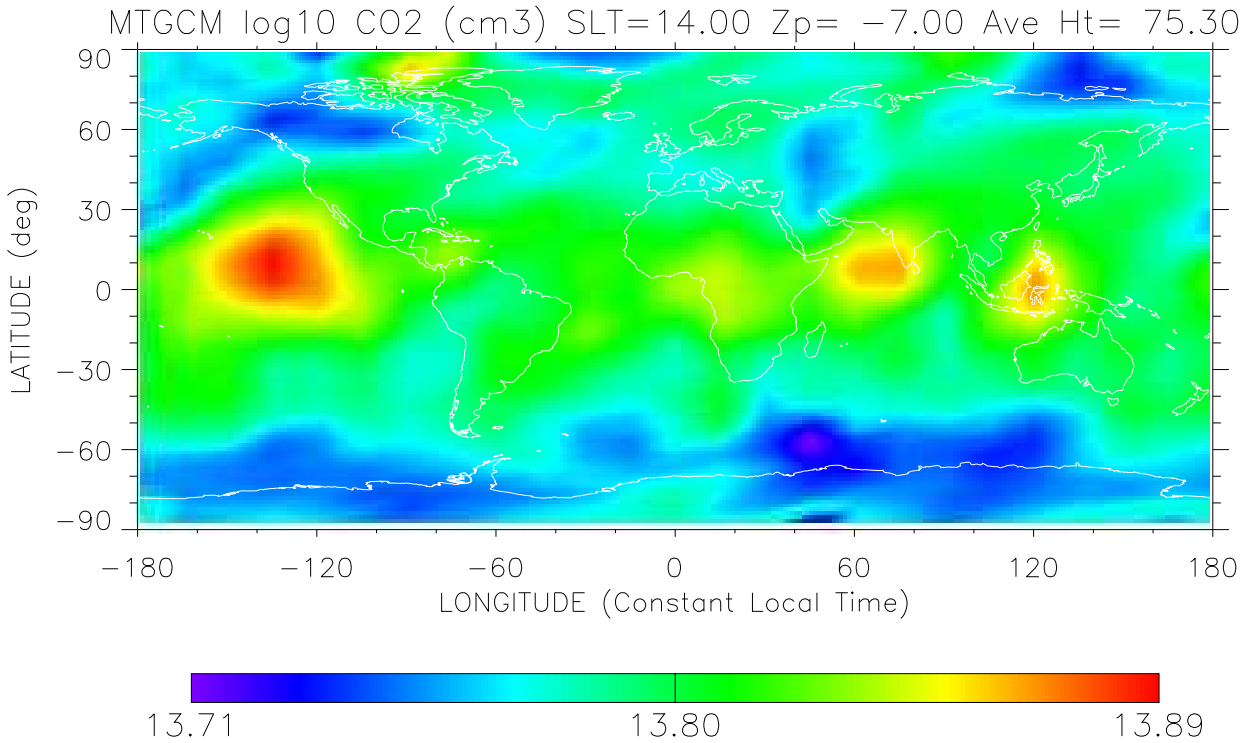

MTGCM log10 NE (cm3) SLT=14.00 Zp= 8.00 Ave Ht=237.43
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
3.887
3.903
3.919

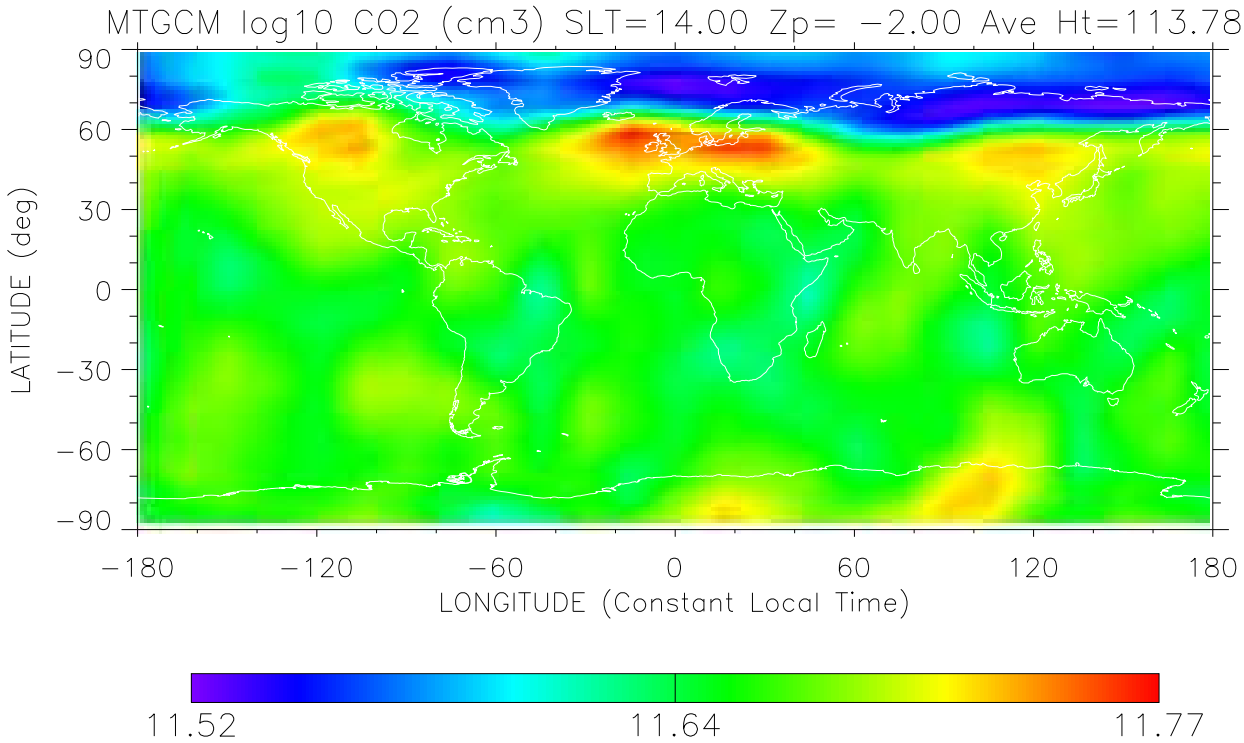

MTGCM Z (km) SLT=14.00 Zp= −7.00 Ave Ht= 75.30
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
64.51
72.66
80.81

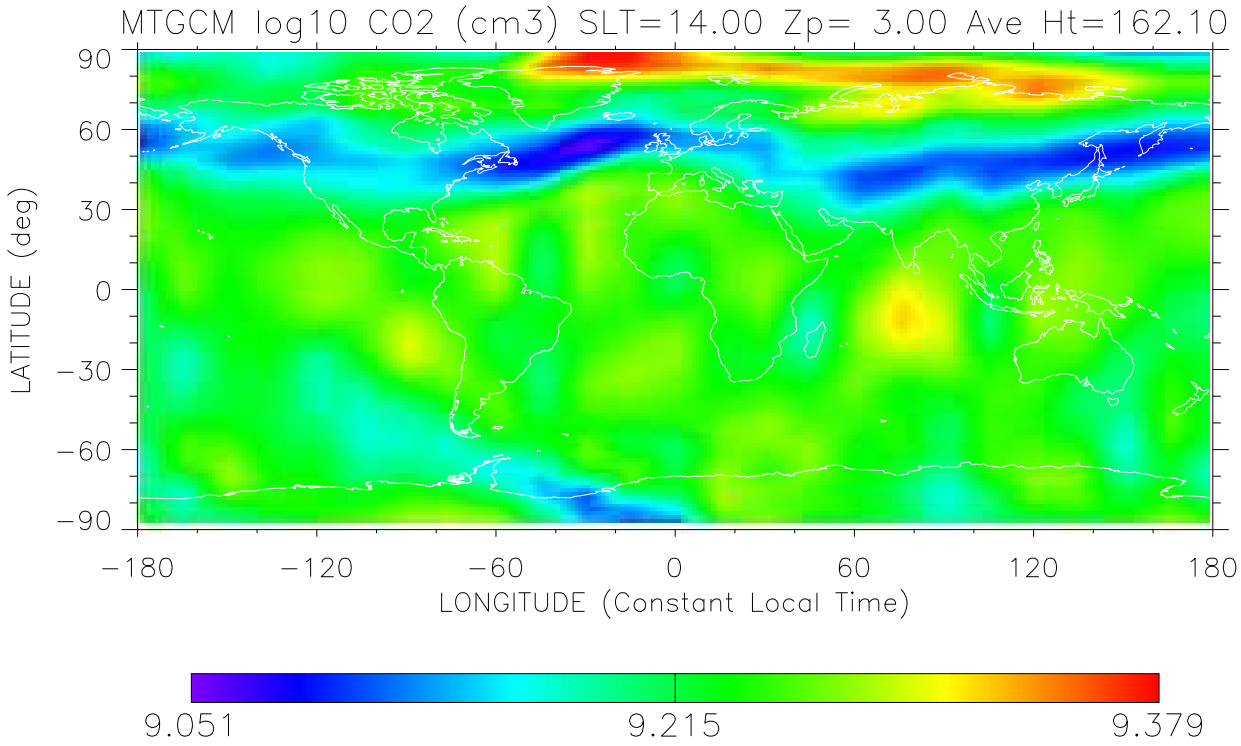

MTGCM Z (km) SLT=14.00 Zp= −2.00 Ave Ht=113.78
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
103.5
111.8
120.1

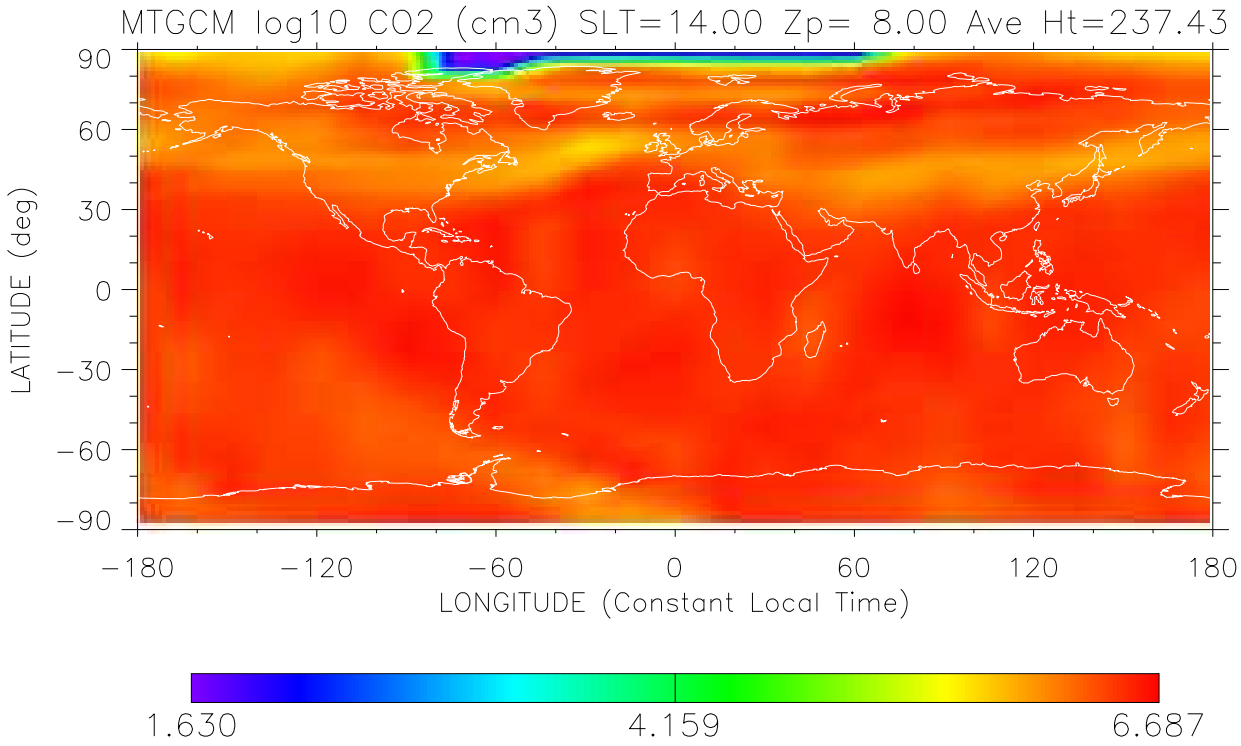

MTGCM Z (km) SLT=14.00 Zp= 3.00 Ave Ht=162.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
143.5
158.3
173.2

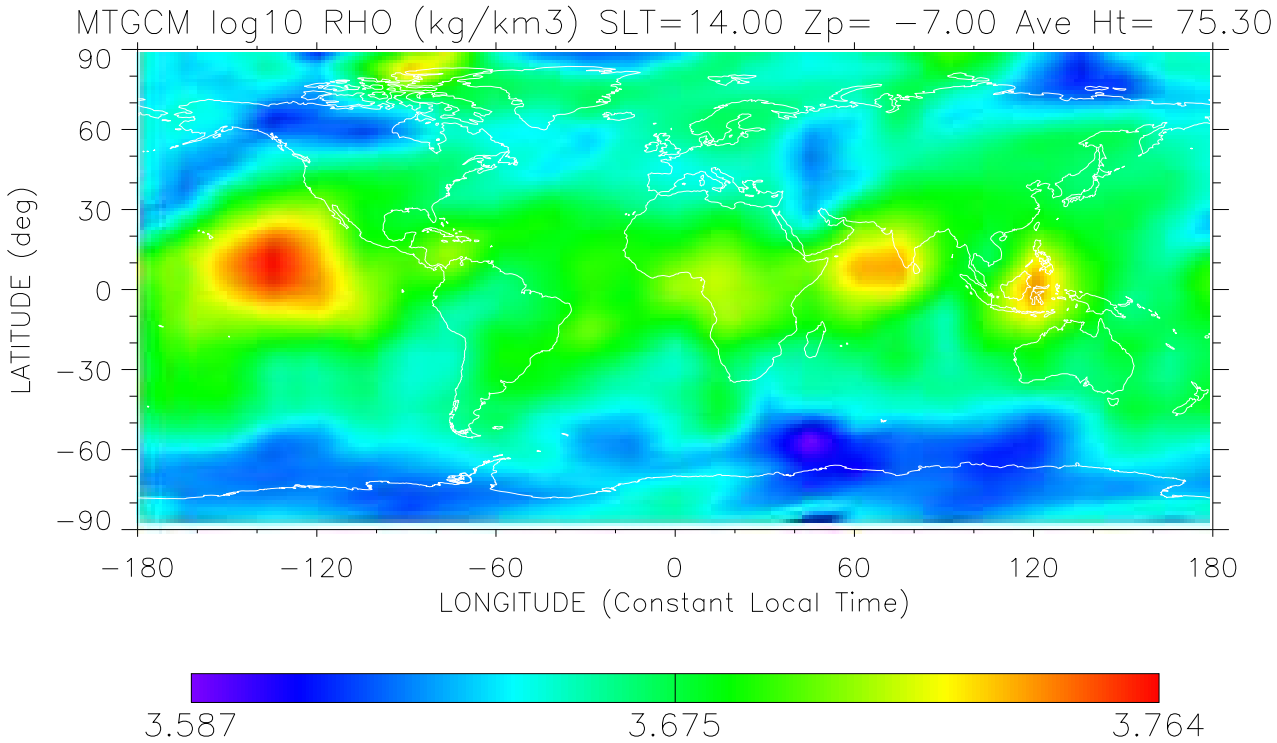

MTGCM Z (km) SLT=14.00 Zp= 8.00 Ave Ht=237.43
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
188.0
235.9
283.8

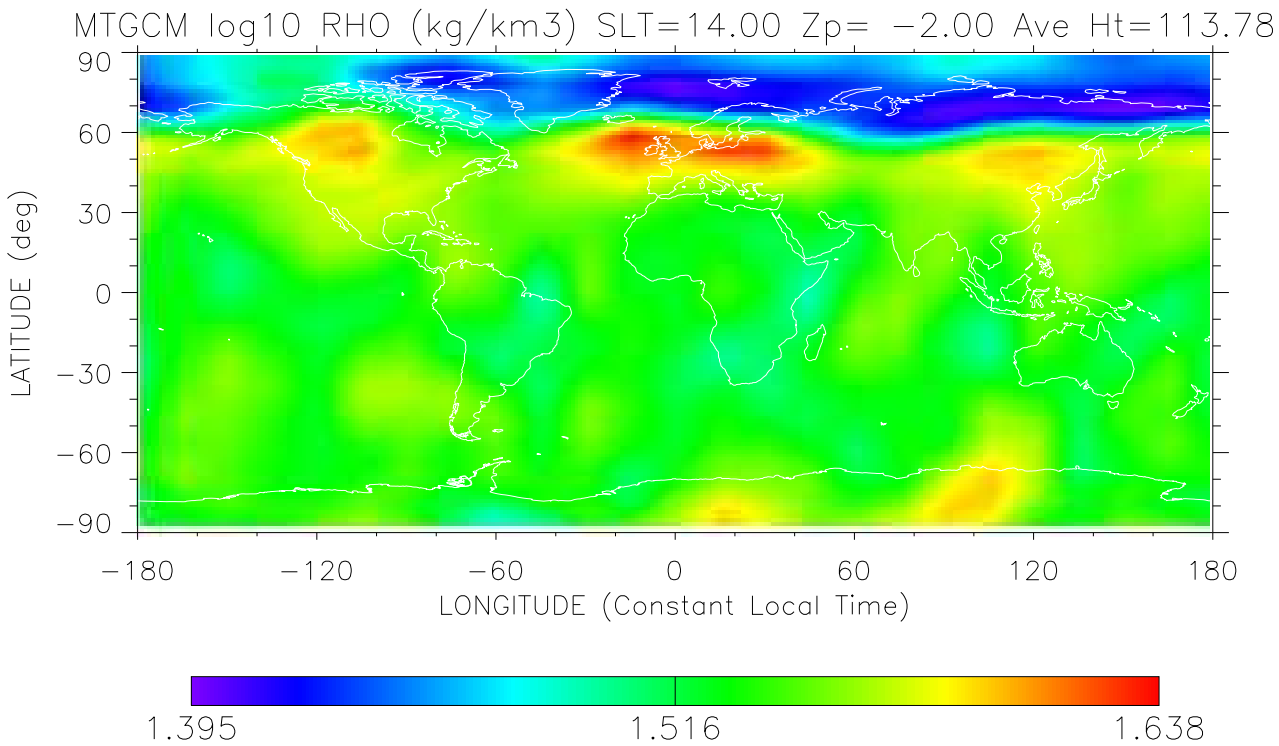

MTGCM log10 CO2 (cm3) SLT=14.00 Zp= −7.00 Ave Ht= 75.30
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
13.71
13.80
13.89

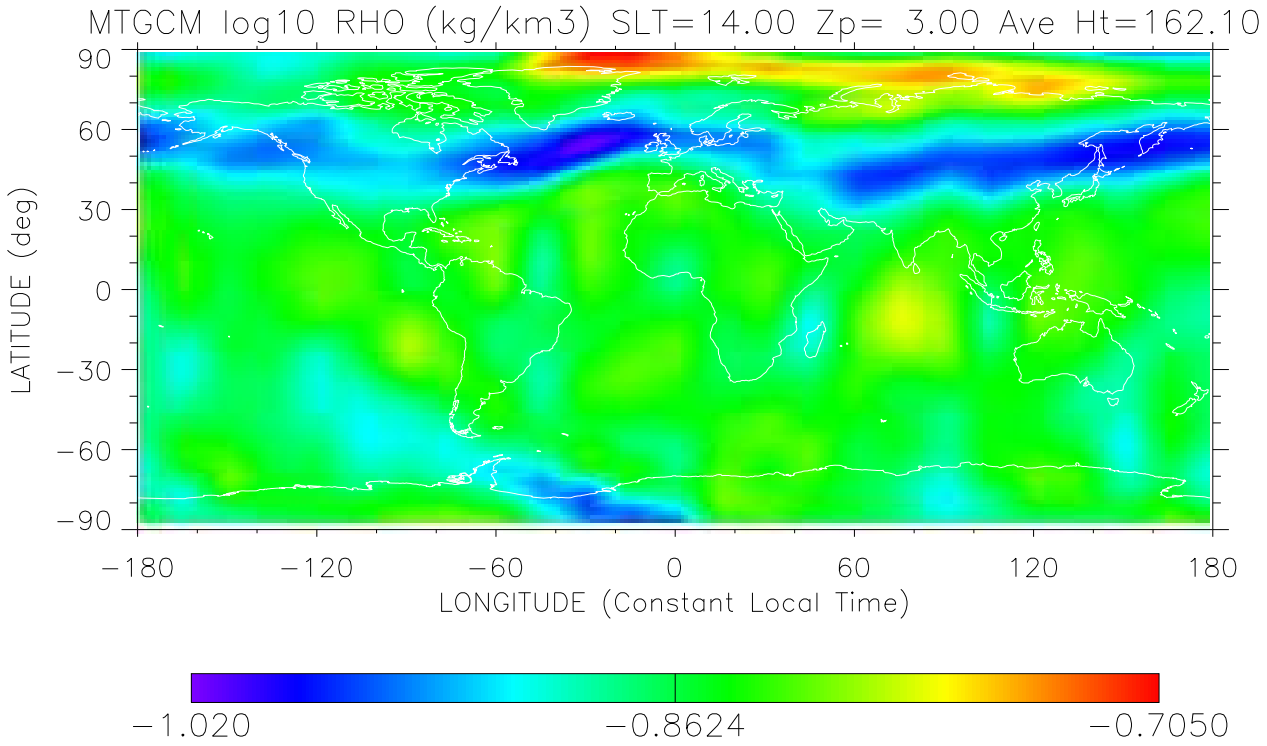

MTGCM log10 CO2 (cm3) SLT=14.00 Zp= −2.00 Ave Ht=113.78
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
11.52
11.64
11.77

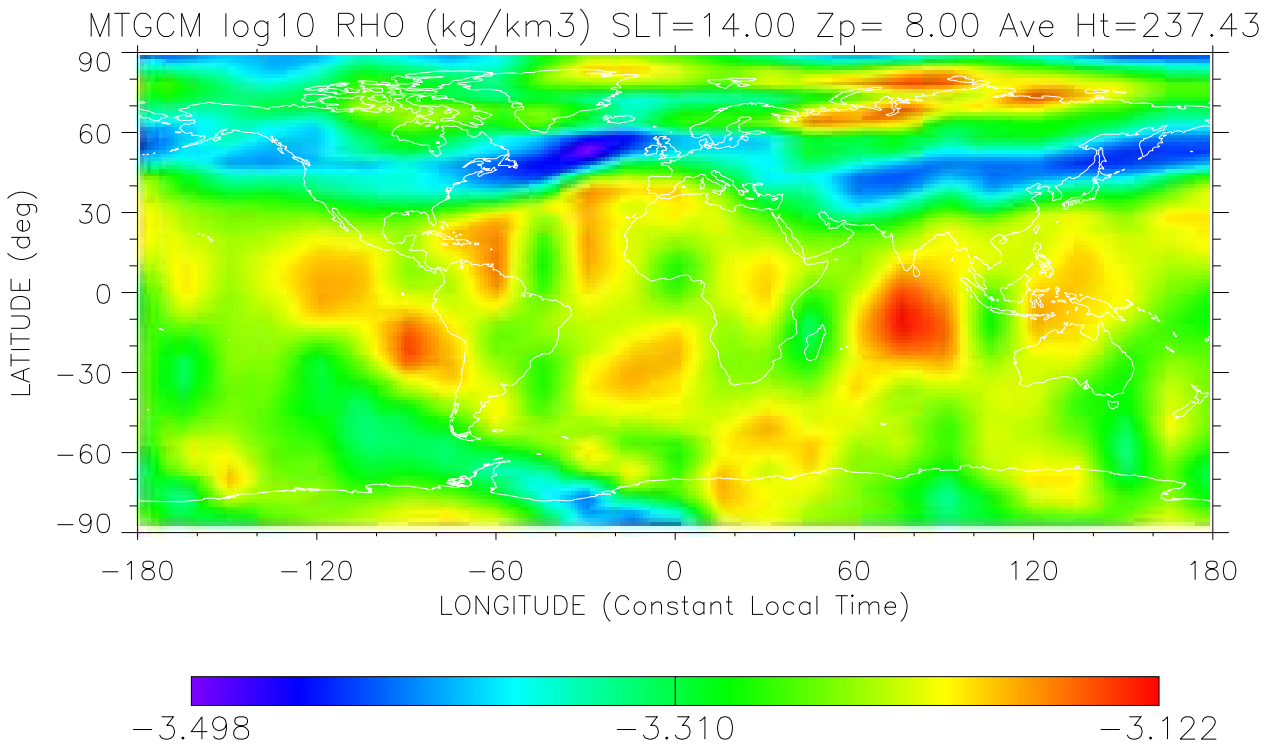

MTGCM log10 CO2 (cm3) SLT=14.00 Zp= 3.00 Ave Ht=162.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
9.051
9.215
9.379

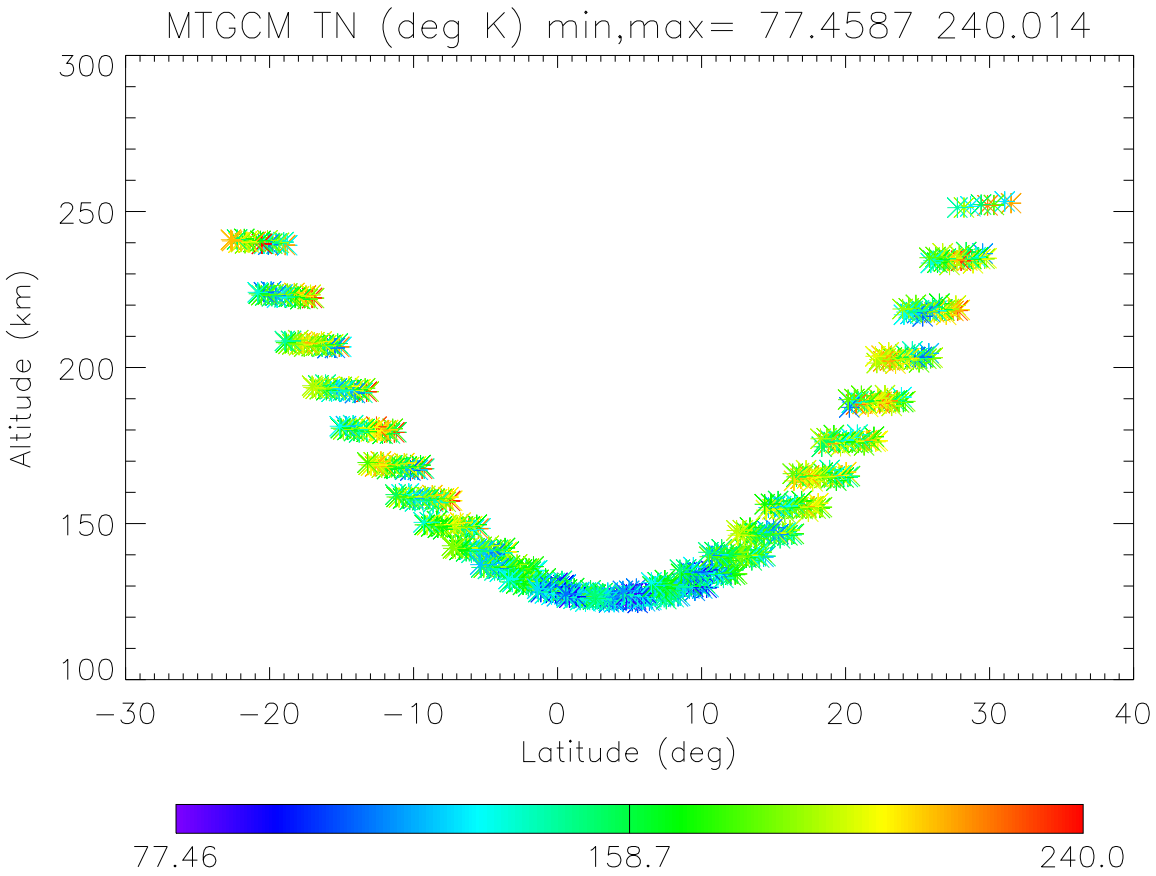

MTGCM log10 CO2 (cm3) SLT=14.00 Zp= 8.00 Ave Ht=237.43
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.630
4.159
6.687

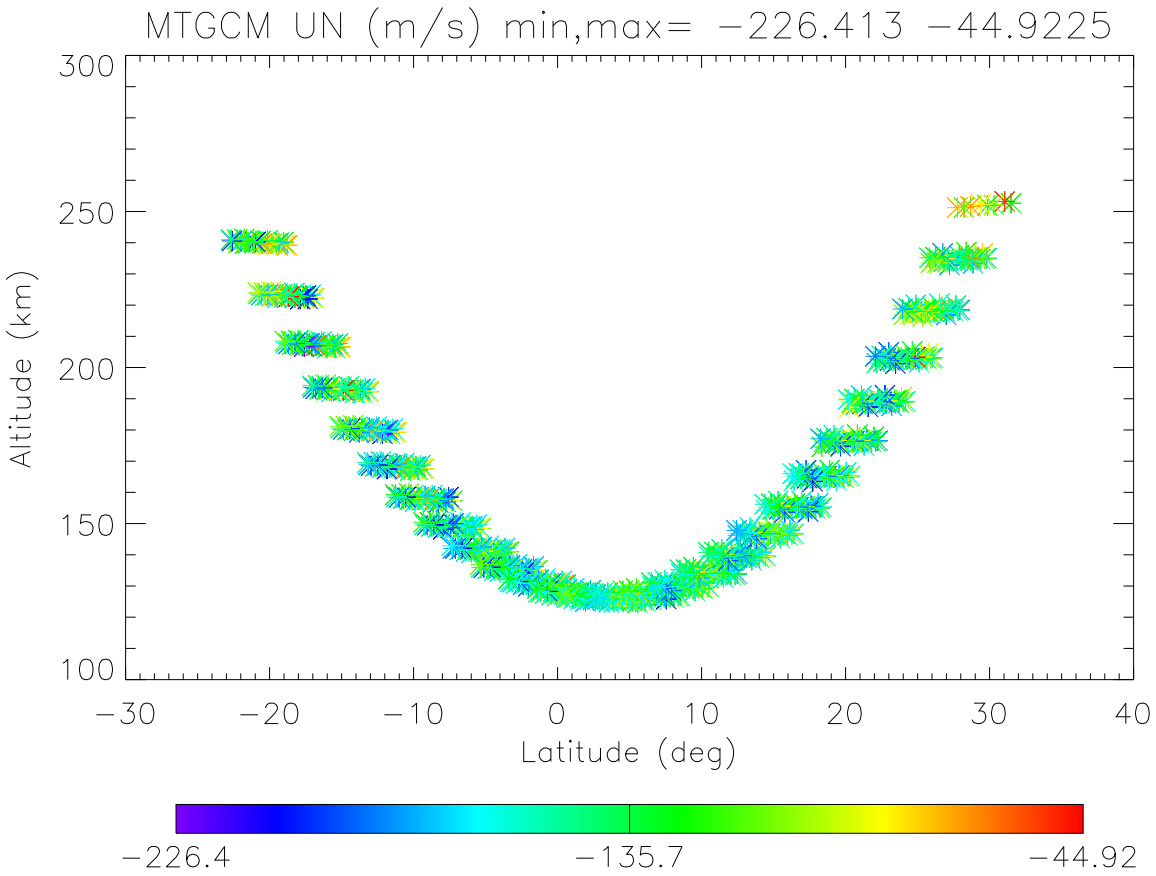

MTGCM log10 RHO (kg/km3) SLT=14.00 Zp= −7.00 Ave Ht= 75.30
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
3.587
3.675
3.764

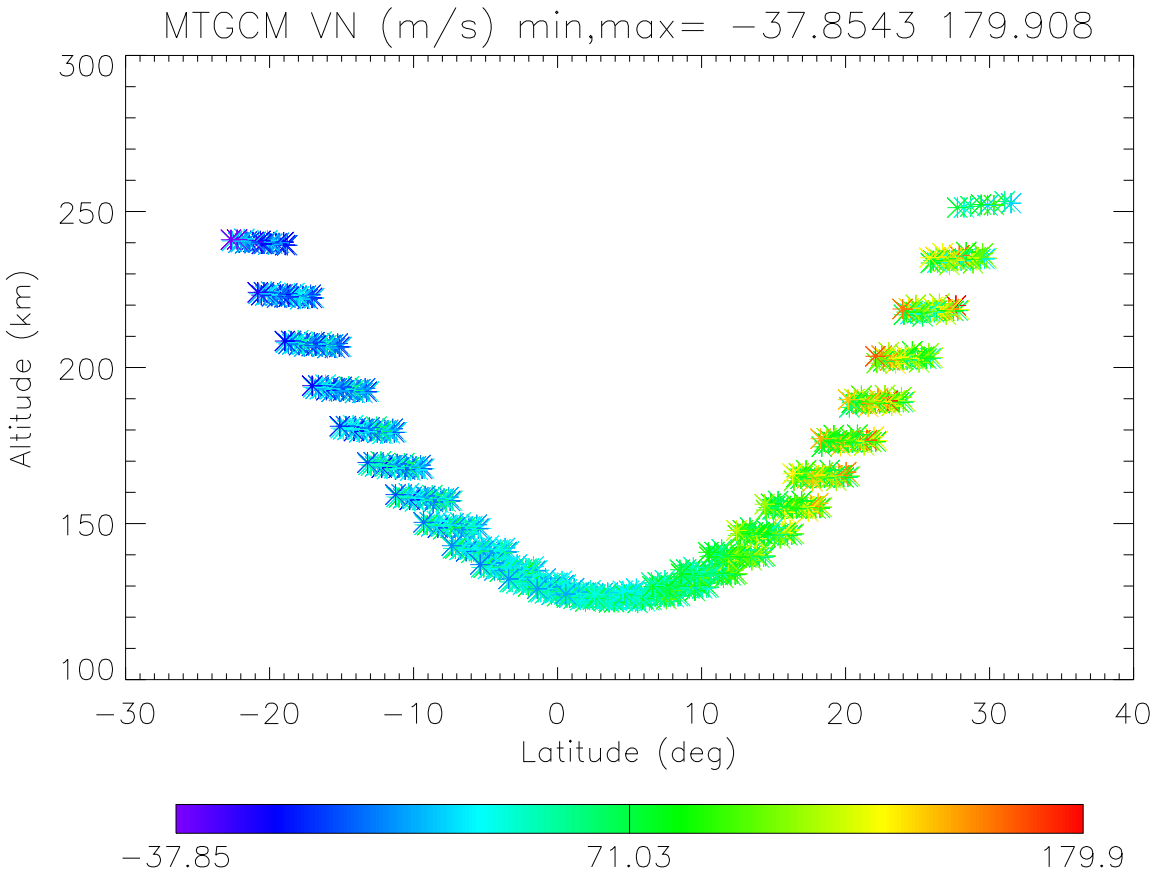

MTGCM log10 RHO (kg/km3) SLT=14.00 Zp= −2.00 Ave Ht=113.78
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.395
1.516
1.638

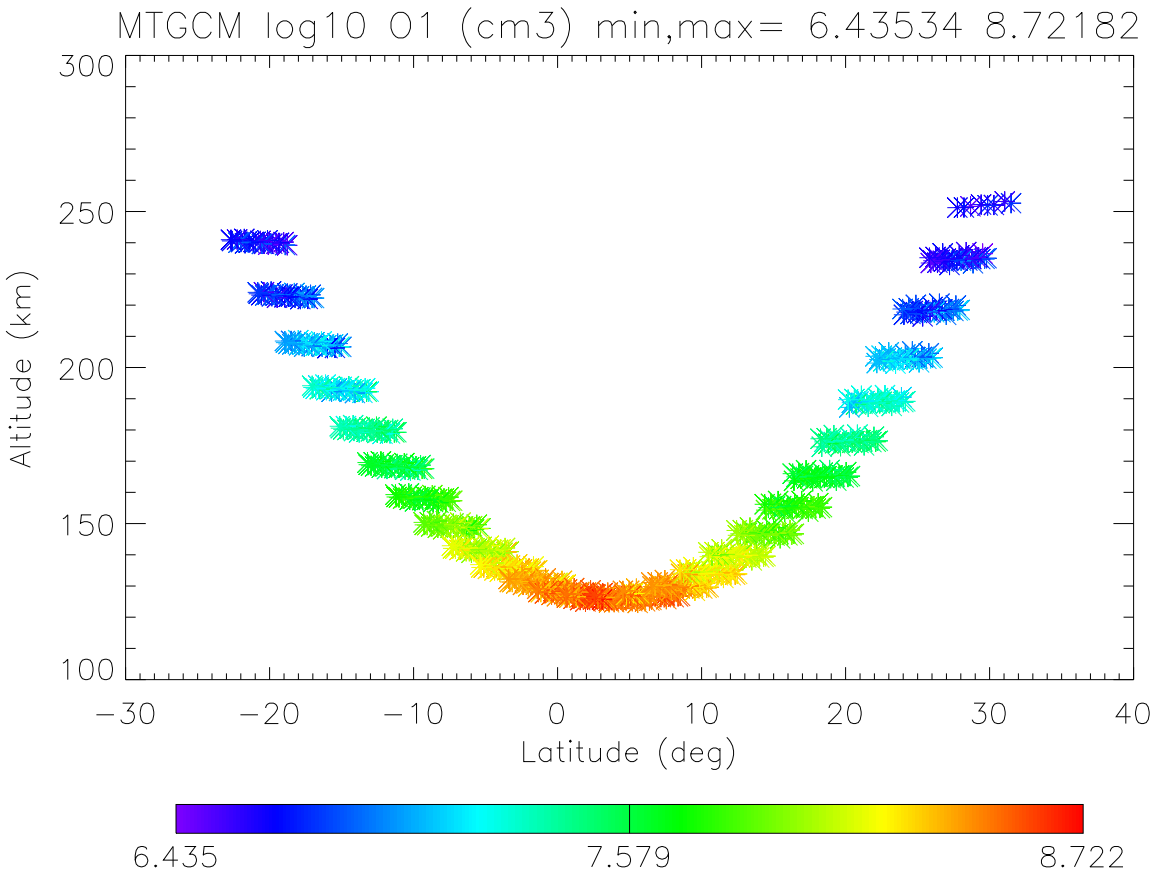

MTGCM log10 RHO (kg/km3) SLT=14.00 Zp= 3.00 Ave Ht=162.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−1.020
−0.8624
−0.7050

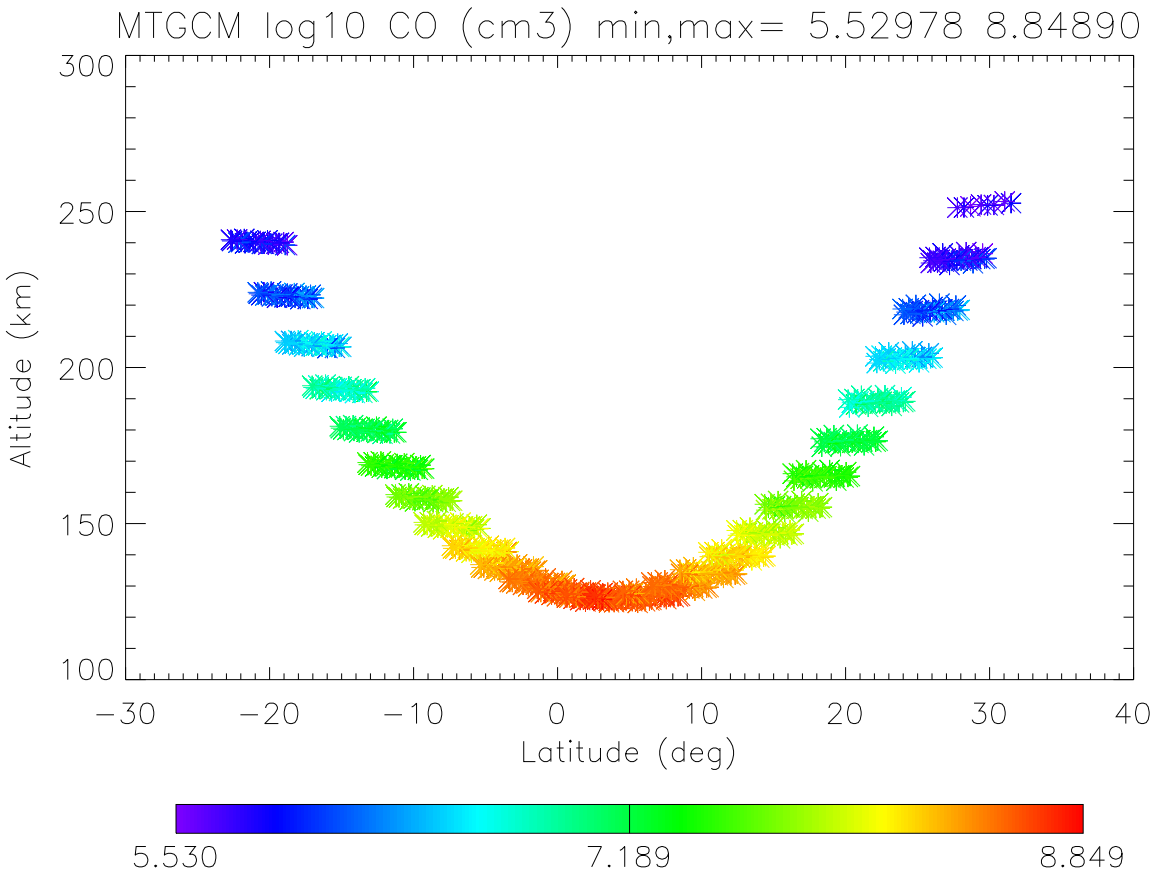

MTGCM log10 RHO (kg/km3) SLT=14.00 Zp= 8.00 Ave Ht=237.43
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−3.498
−3.310
−3.122

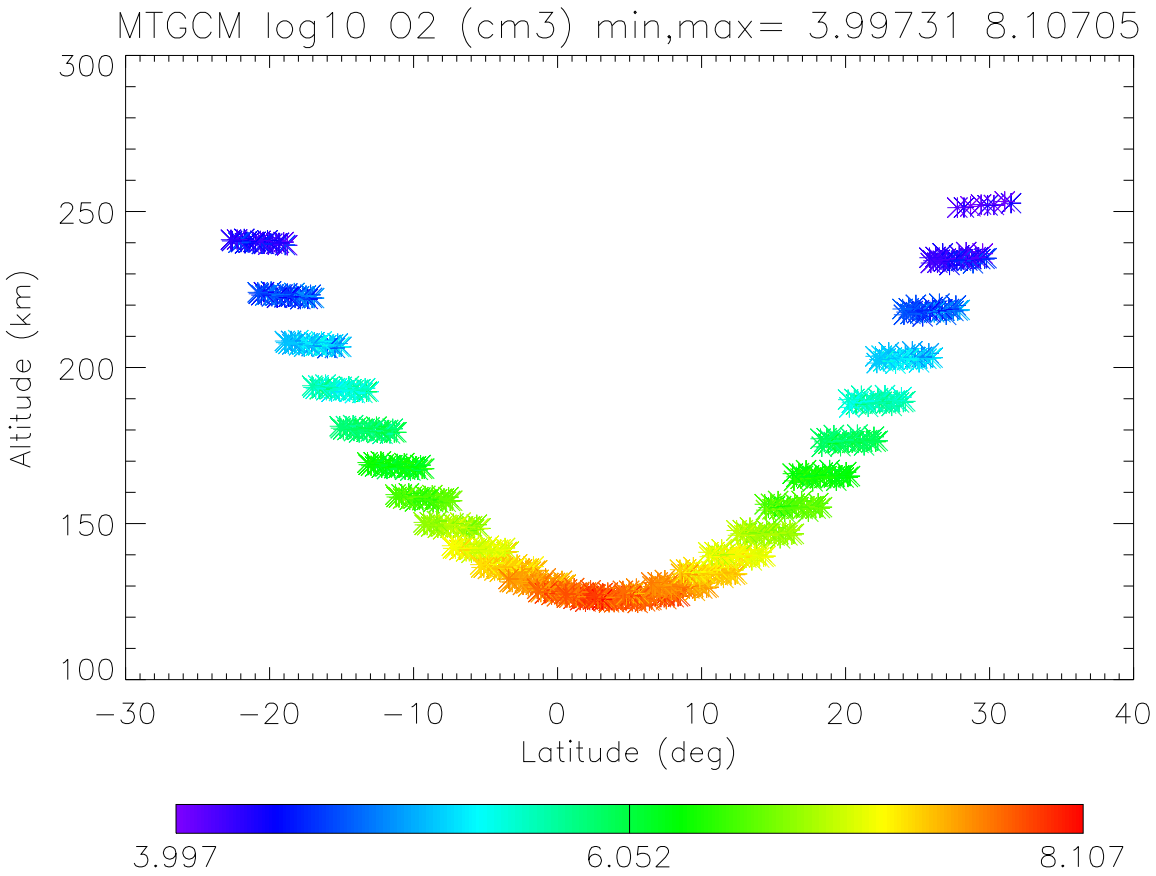

MTGCM TN (deg K) min,max= 77.4587 240.014
300
250
200
150
100
Altitude (km)
−30
−20
−10
0
10
20
30
40
Latitude (deg)
77.46
158.7
240.0

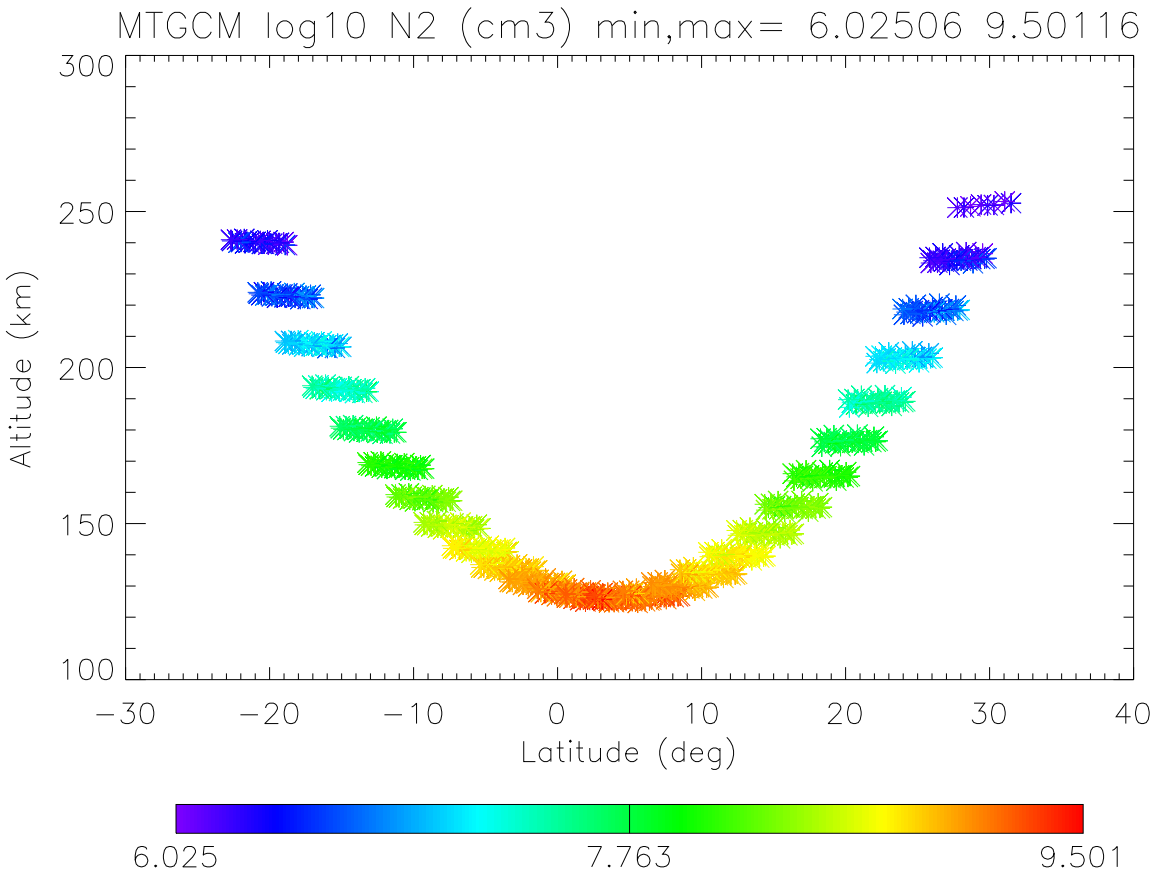

MTGCM UN (m/s) min,max= −226.413 −44.9225
300
250
200
150
100
Altitude (km)
−30
−20
−10
0
10
20
30
40
Latitude (deg)
−226.4
−135.7
−44.92

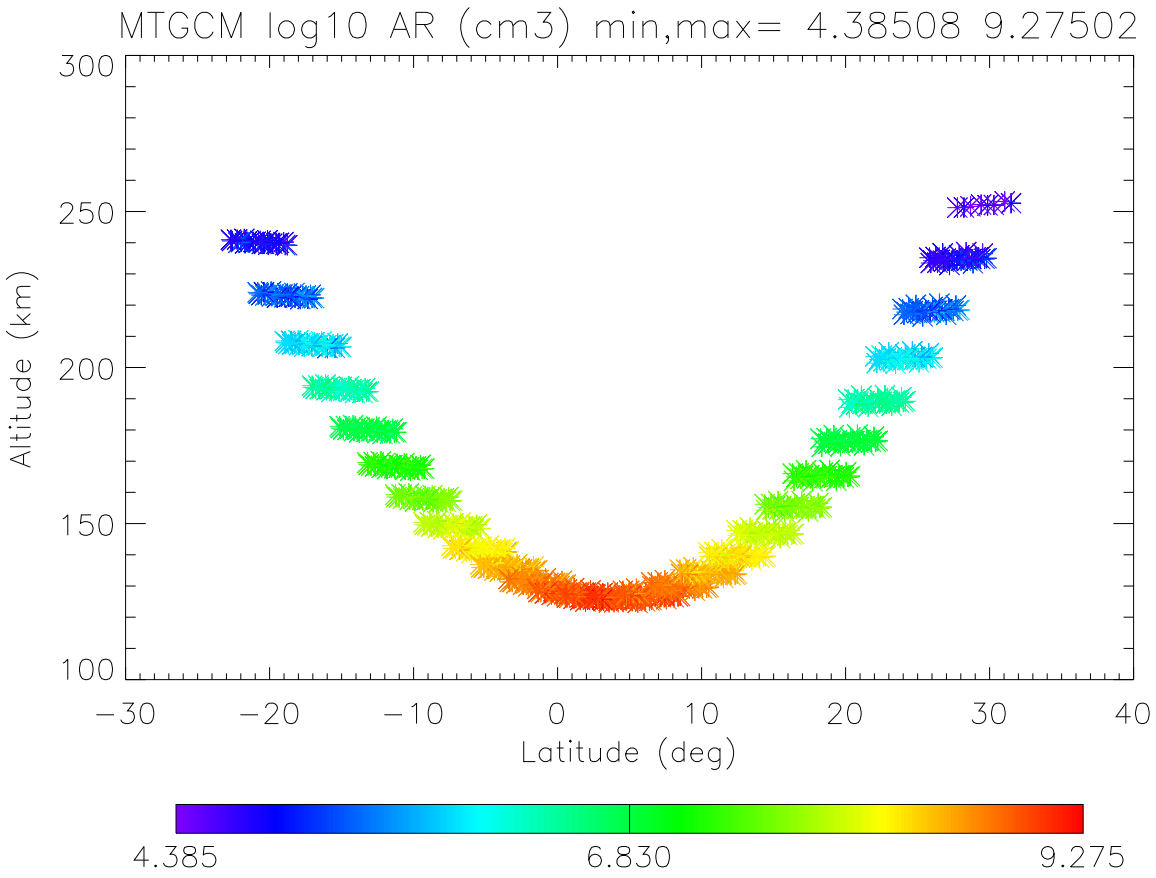

MTGCM VN (m/s) min,max= −37.8543 179.908
300
250
200
150
100
Altitude (km)
−30
−20
−10
0
10
20
30
40
Latitude (deg)
−37.85
71.03
179.9

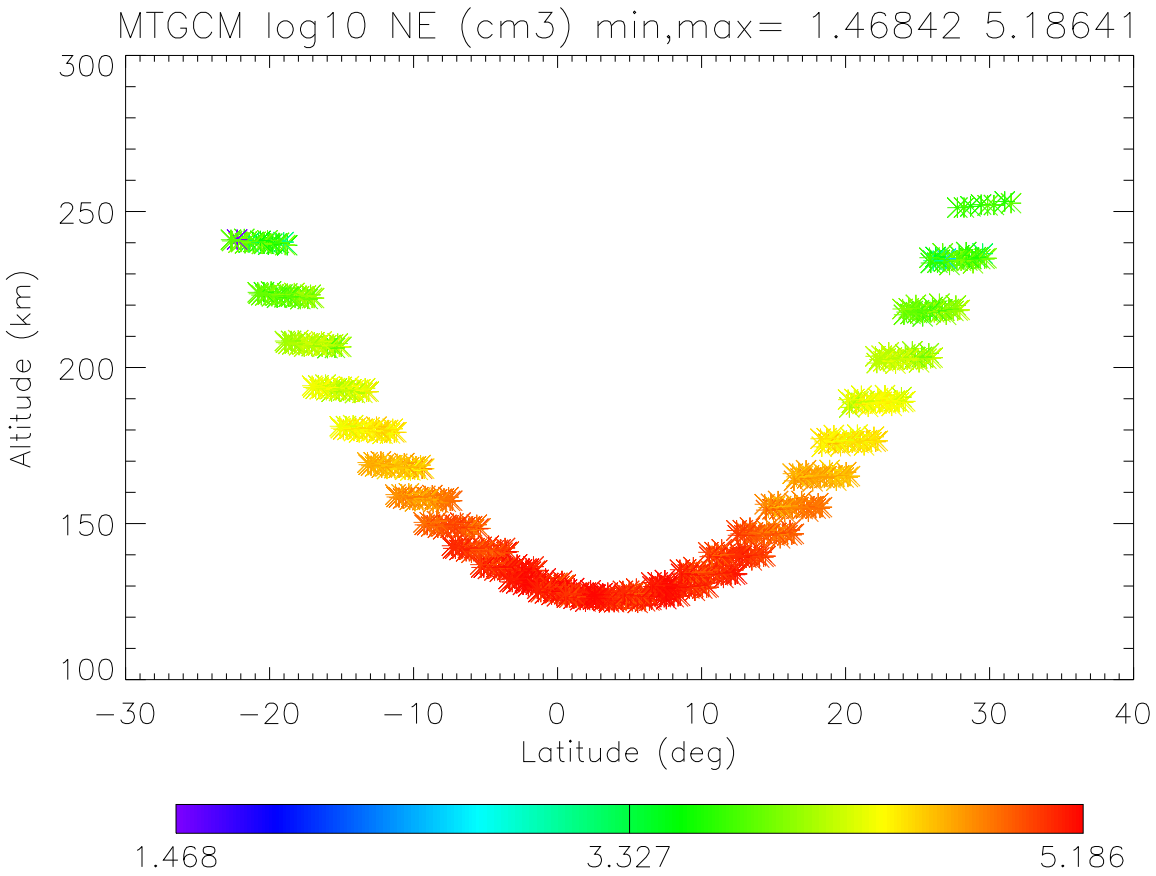

MTGCM log10 O1 (cm3) min,max= 6.43534 8.72182
300
250
200
150
100
Altitude (km)
−30
−20
−10
0
10
20
30
40
Latitude (deg)
6.435
7.579
8.722

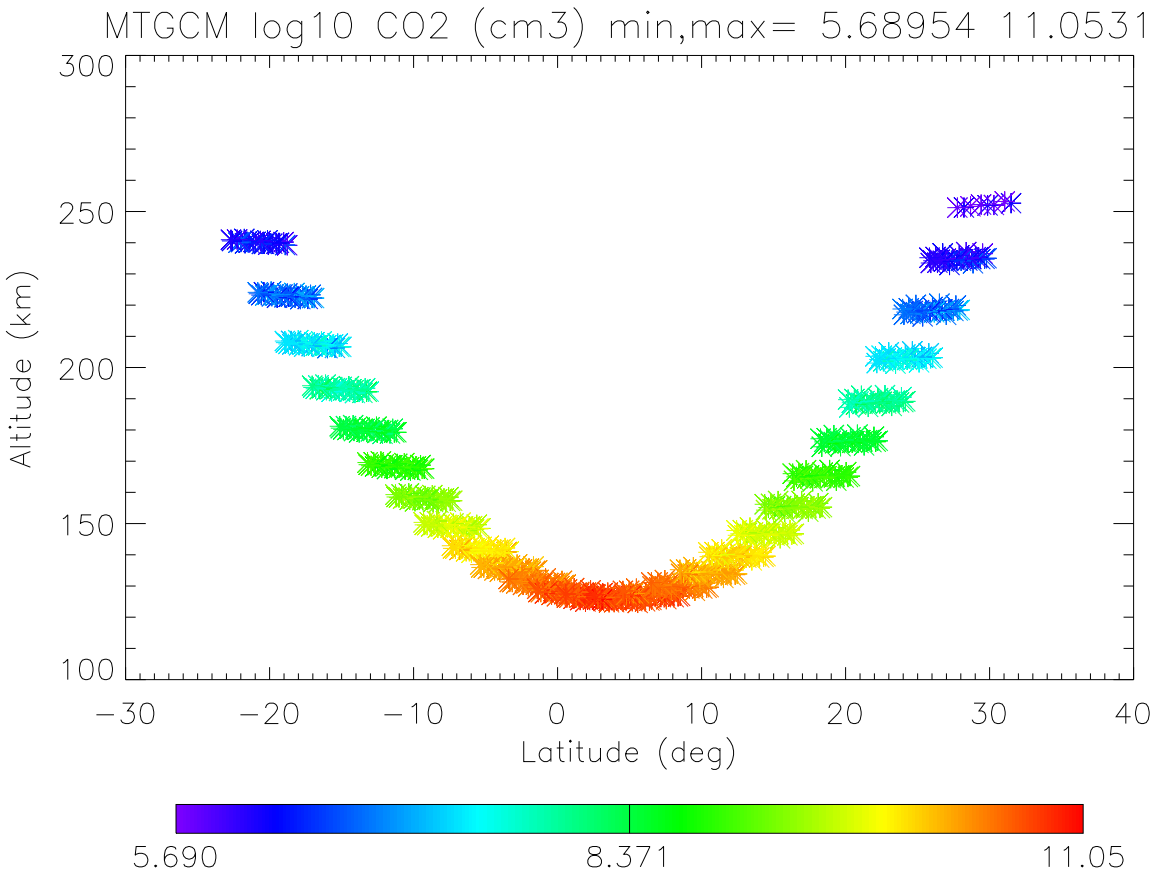

MTGCM log10 CO (cm3) min,max= 5.52978 8.84890
300
250
200
150
100
Altitude (km)
−30
−20
−10
0
10
20
30
40
Latitude (deg)
5.530
7.189
8.849

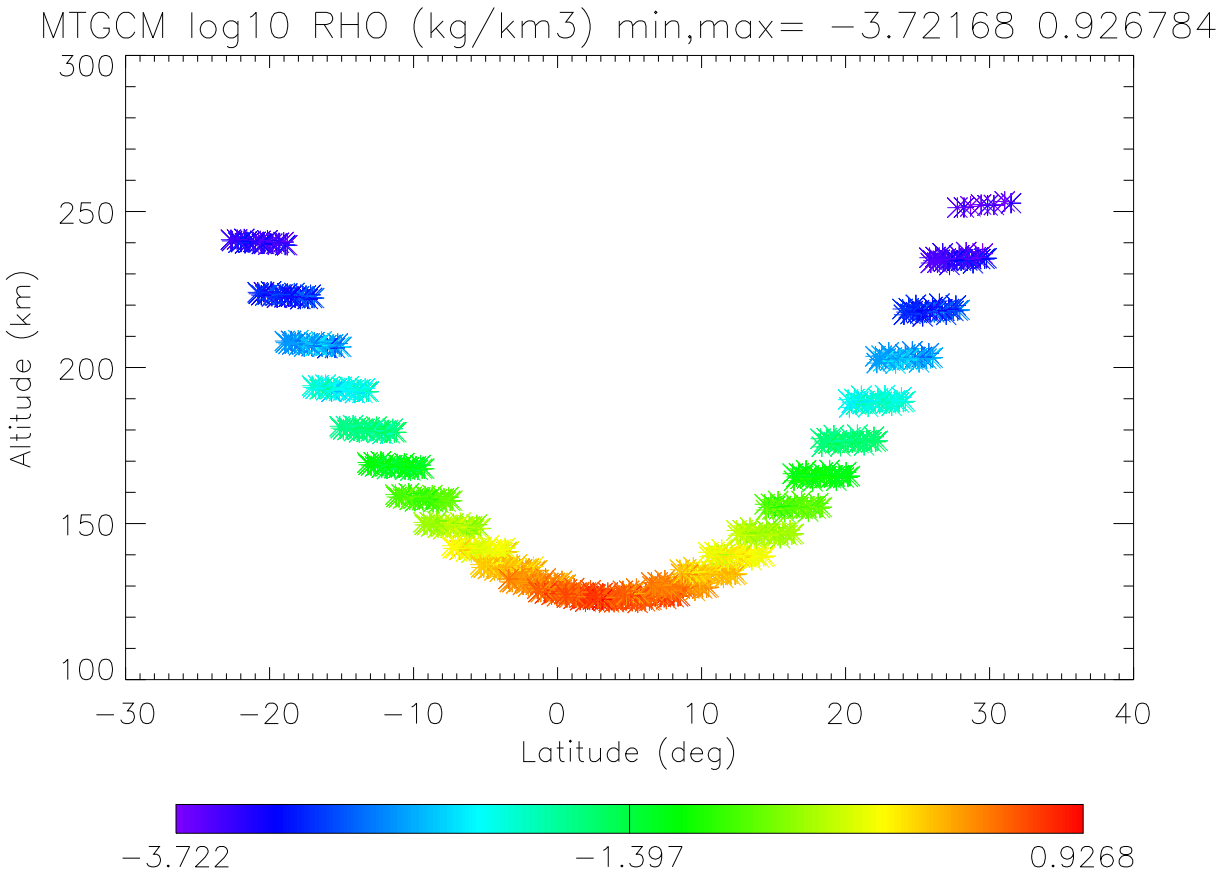

MTGCM log10 O2 (cm3) min,max= 3.99731 8.10705
300
250
200
150
100
Altitude (km)
−30
−20
−10
0
10
20
30
40
Latitude (deg)
3.997
6.052
8.107


MTGCM log10 N2 (cm3) min,max= 6.02506 9.50116
Altitude (km)
300
250
200
150
100
−30
−20
−10
0
10
20
30
40
Latitude (deg)
6.025
7.763
9.501


MTGCM log10 AR (cm3) min,max= 4.38508 9.27502
300
250
200
150
100
Altitude (km)
−30
−20
−10
0
10
20
30
40
Latitude (deg)
4.385
6.830
9.275


MTGCM log10 NE (cm3) min,max= 1.46842 5.18641
300
250
200
150
100
Altitude (km)
−30
−20
−10
0
10
20
30
40
Latitude (deg)
1.468
3.327
5.186


MTGCM log10 CO2 (cm3) min,max= 5.68954 11.0531
300
250
200
150
100
Altitude (km)
−30
−20
−10
0
10
20
30
40
Latitude (deg)
5.690
8.371
11.05


MTGCM log10 RHO (kg/km3) min,max= −3.72168 0.926784
Altitude (km)
300
250
200
150
100
−30
−20
−10
0
10
20
30
40
Latitude (deg)
−3.722
−1.397
0.9268