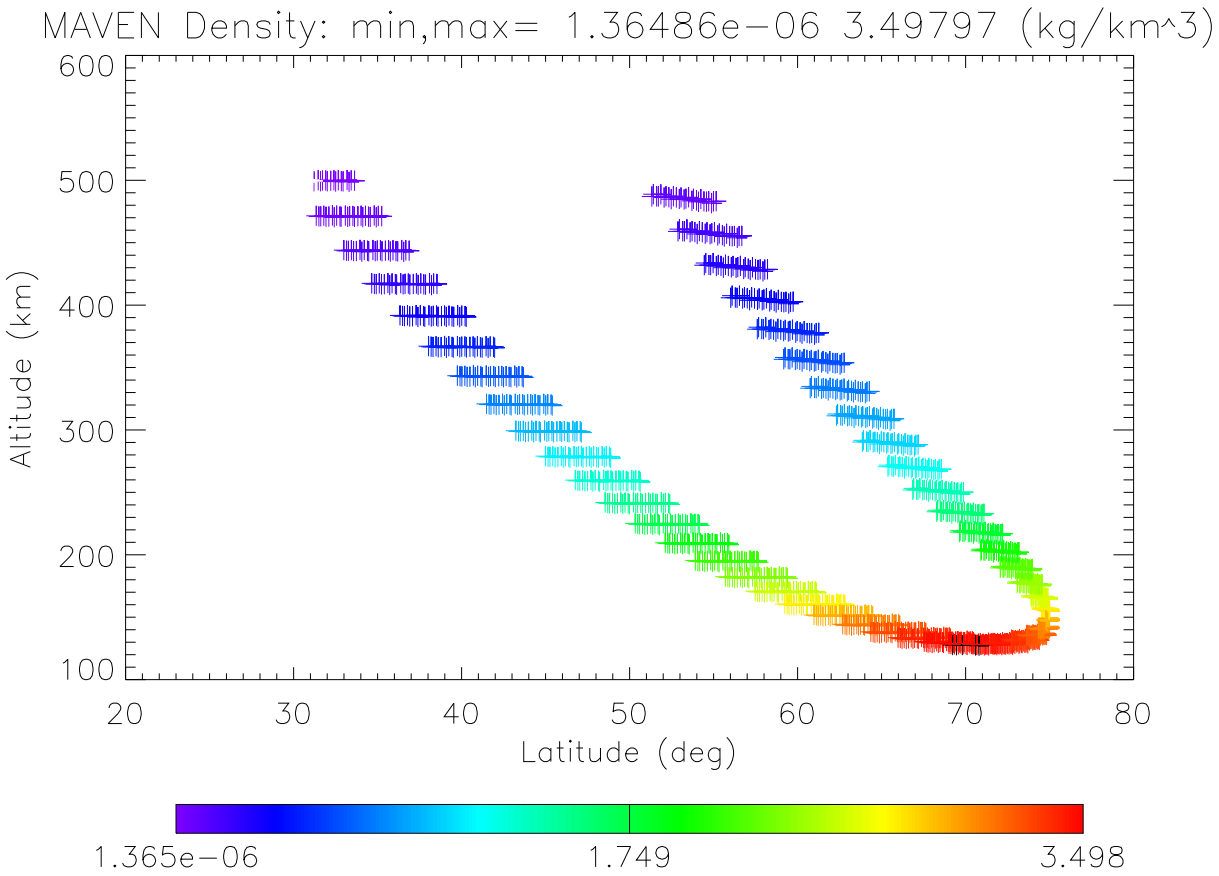
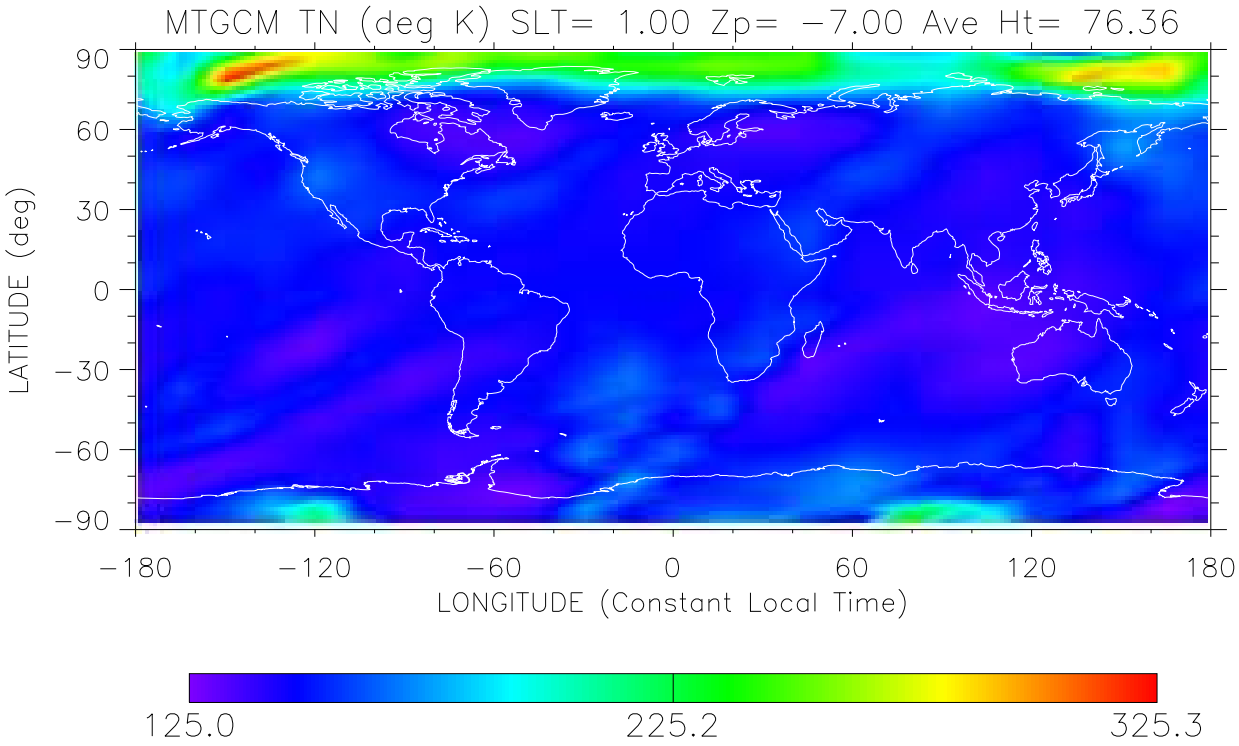
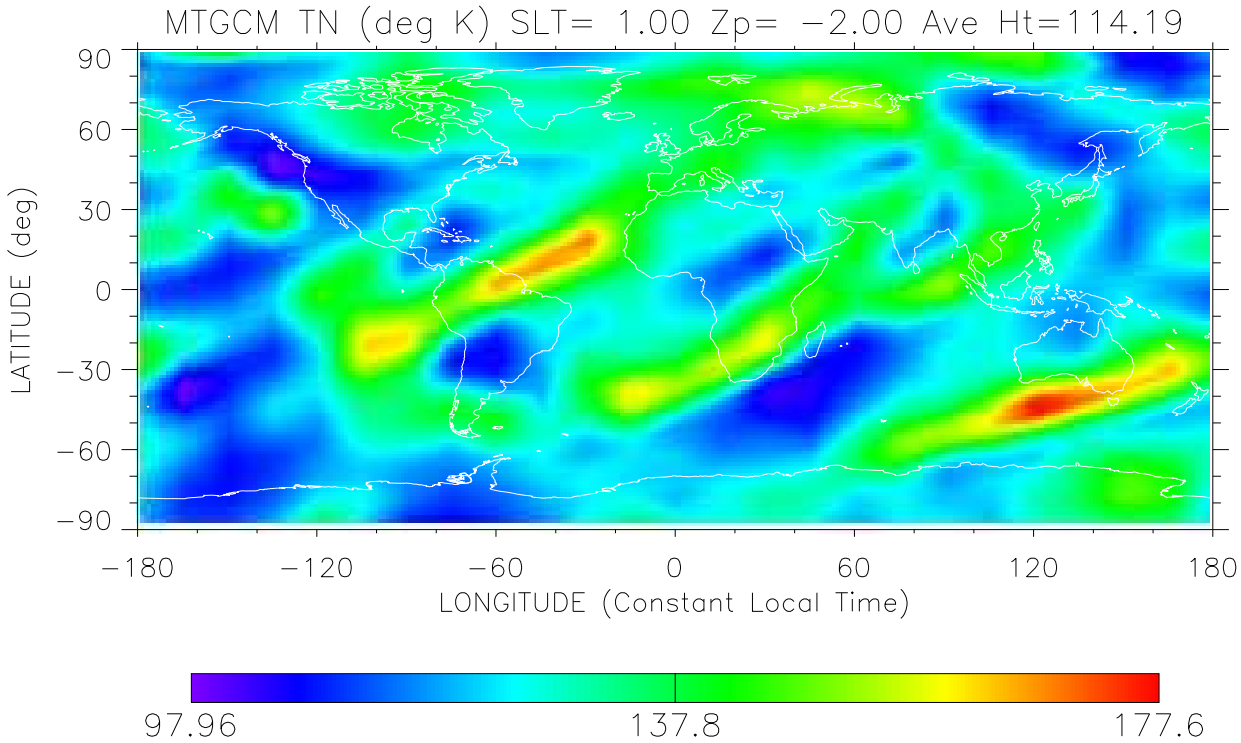
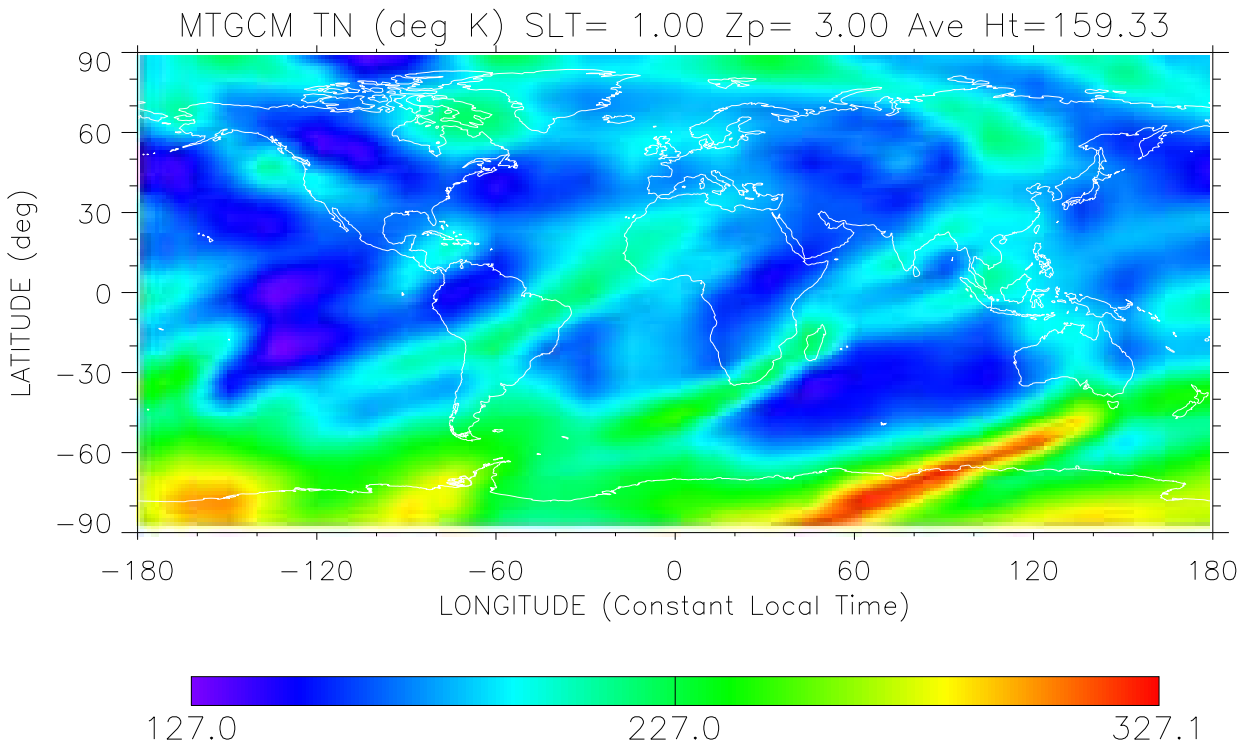
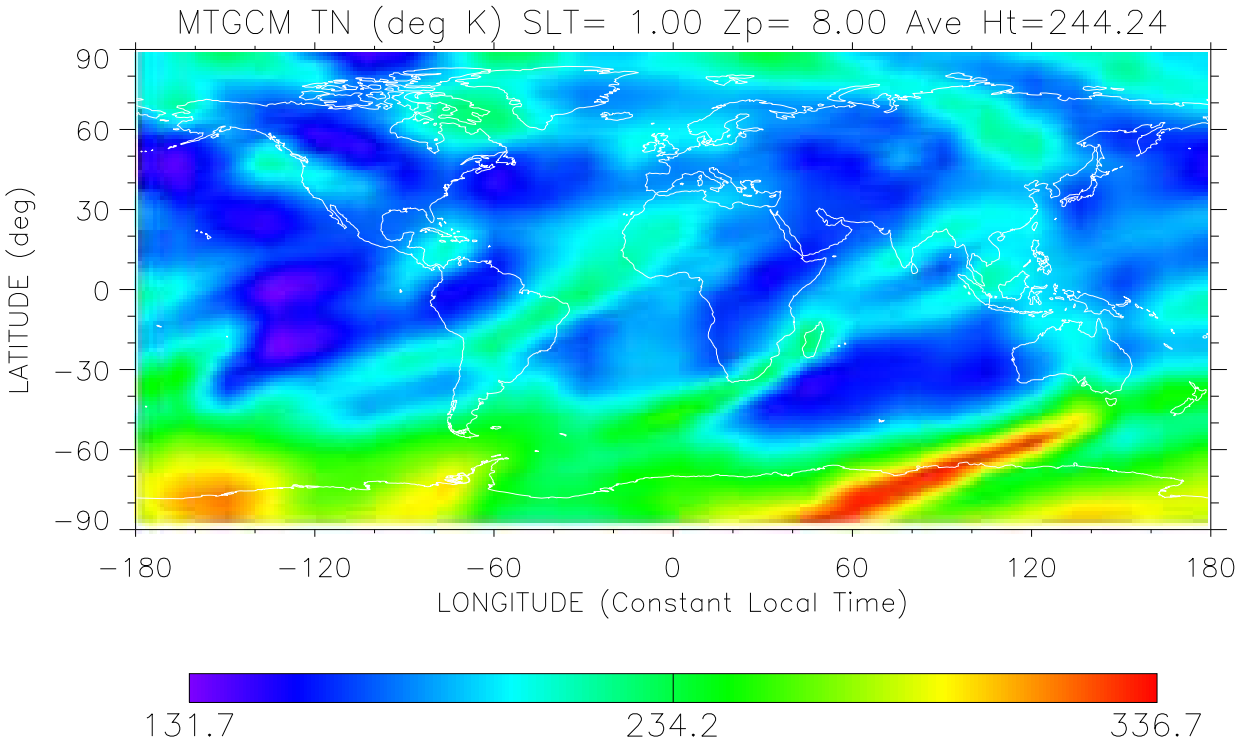
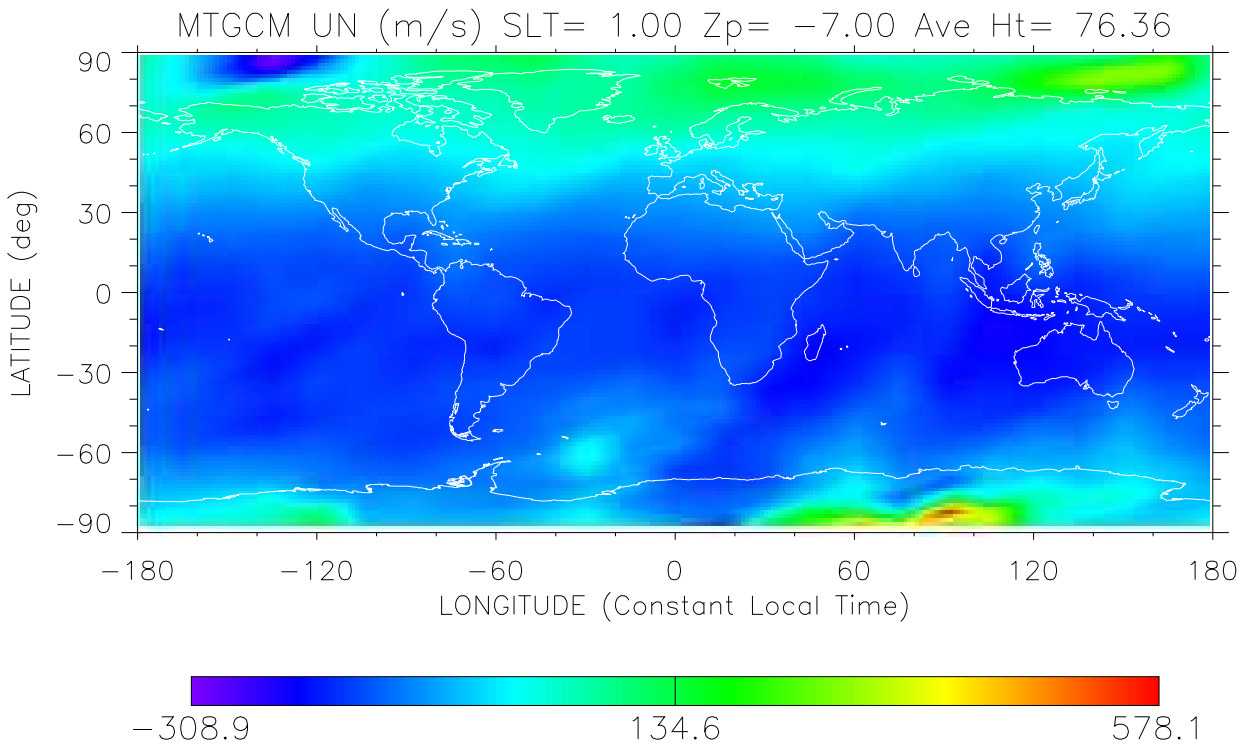

MAVEN Density: min,max= 1.36486e−06 3.49797 (kg/km^3)
600
500
400
300
200
100
Altitude (km)
20
30
40
50
60
70
80
Latitude (deg)
1.365e−06
1.749
3.498

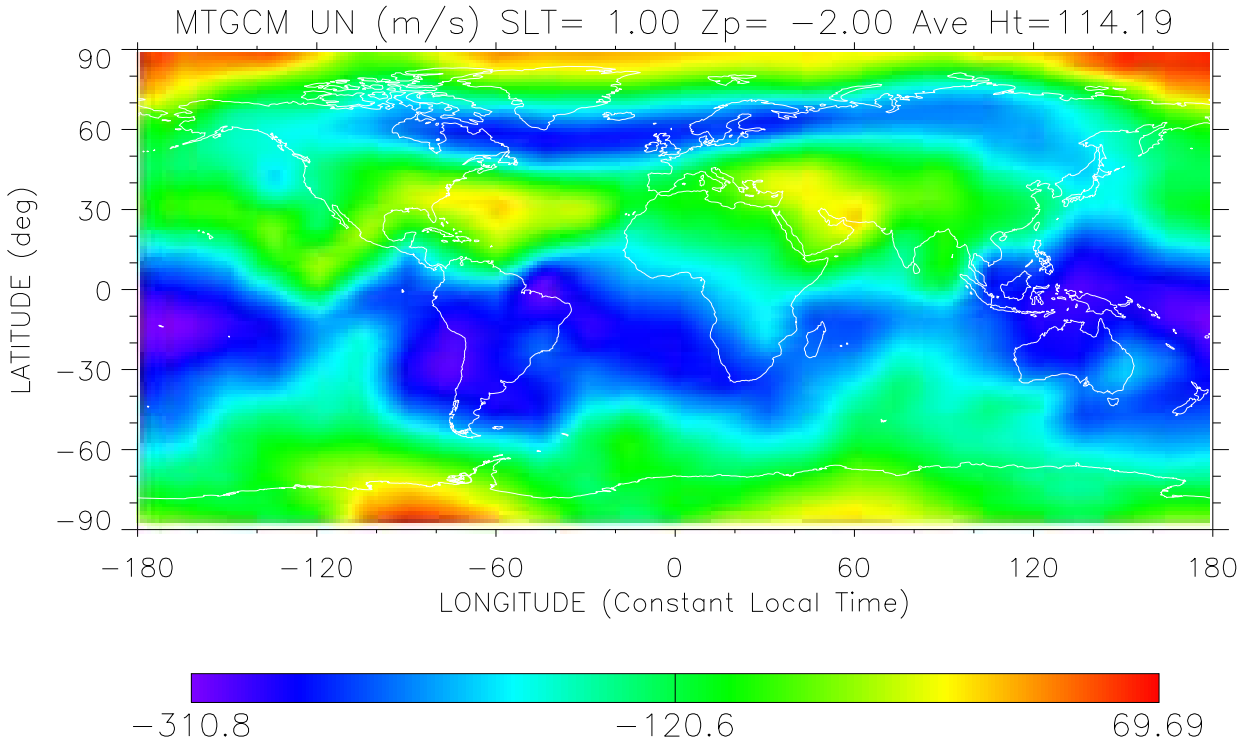

MTGCM TN (deg K) SLT= 1.00 Zp= −7.00 Ave Ht= 76.36
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
125.0
225.2
325.3

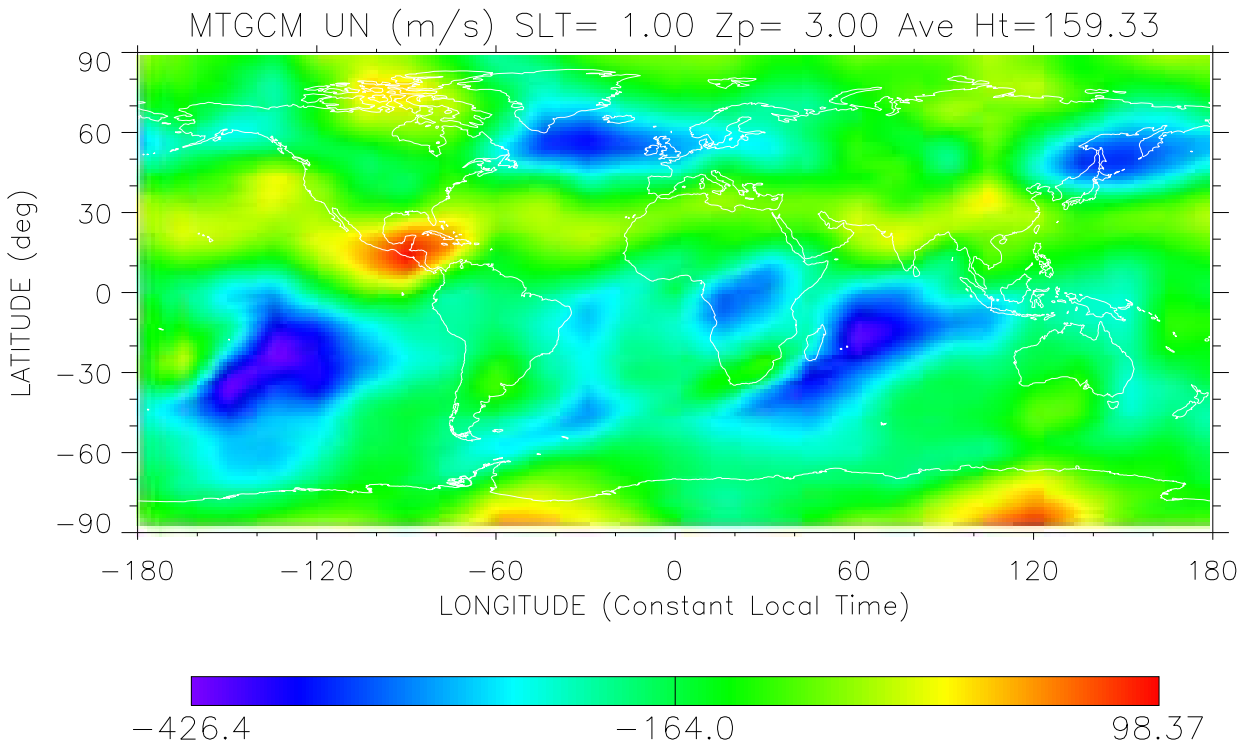

MTGCM TN (deg K) SLT= 1.00 Zp= −2.00 Ave Ht=114.19
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
97.96
137.8
177.6

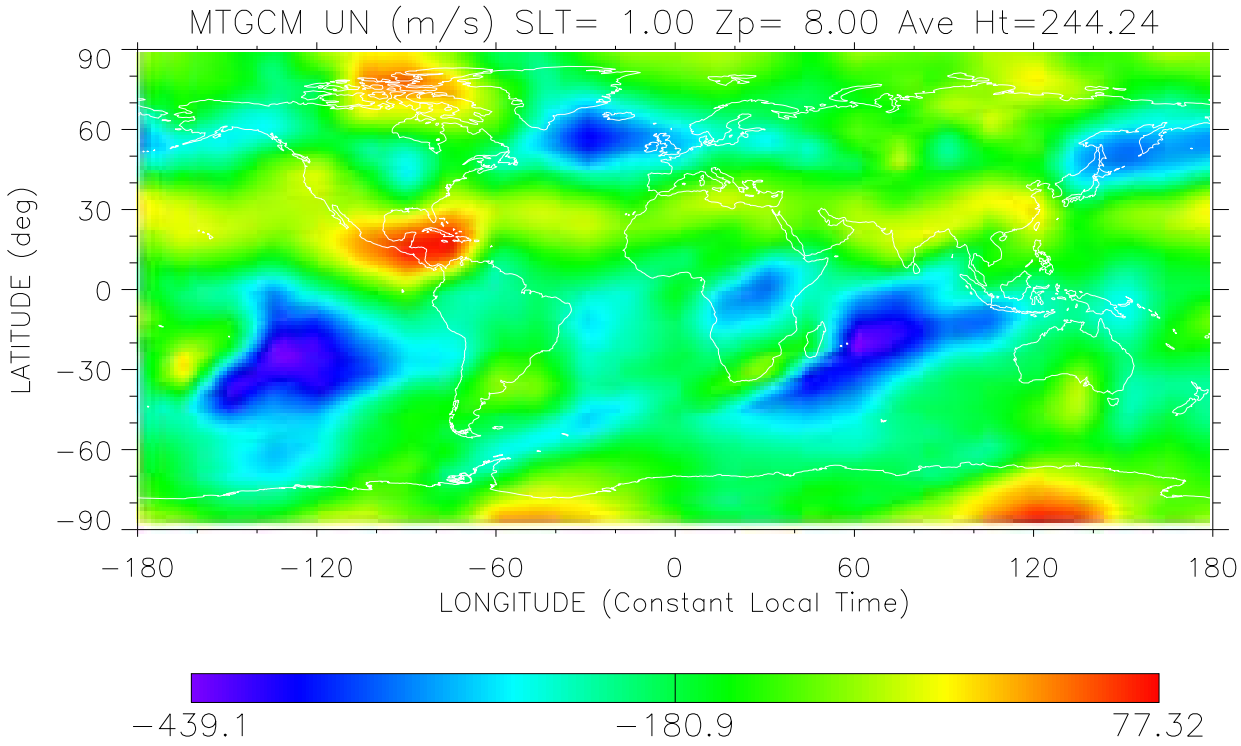

MTGCM TN (deg K) SLT= 1.00 Zp= 3.00 Ave Ht=159.33
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
127.0
227.0
327.1

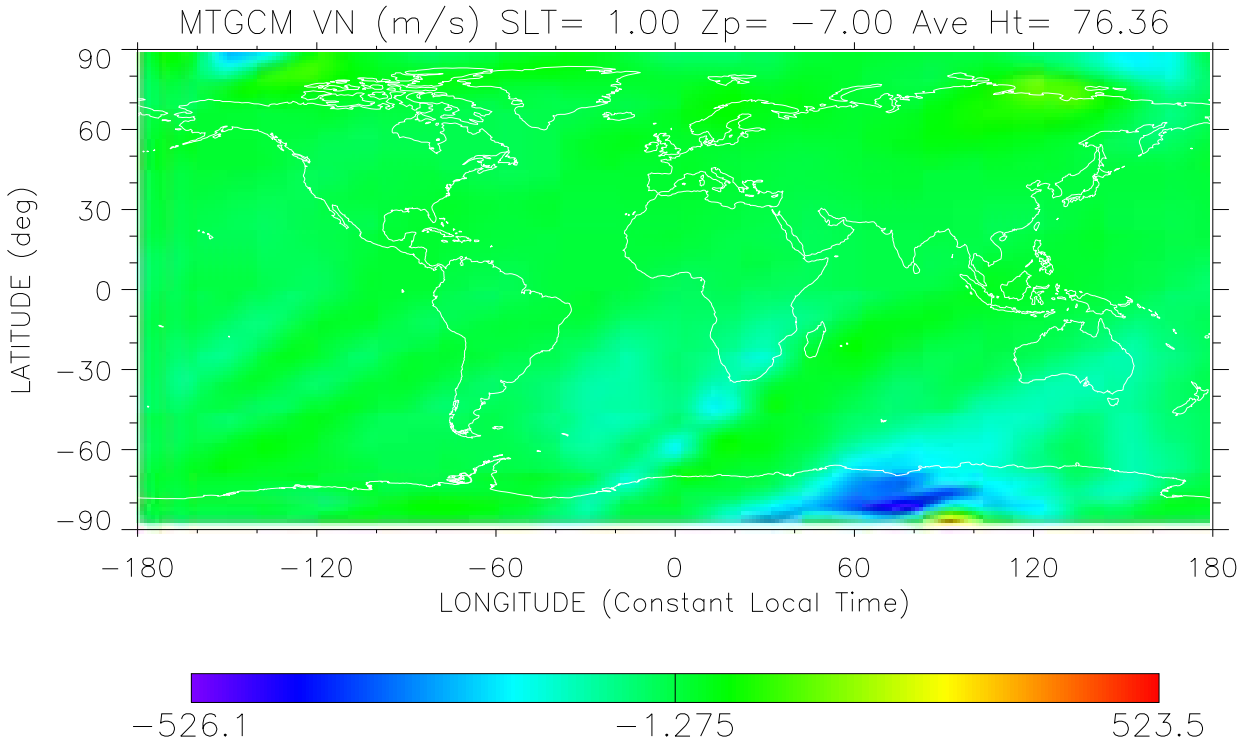

MTGCM TN (deg K) SLT= 1.00 Zp= 8.00 Ave Ht=244.24
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
131.7
234.2
336.7

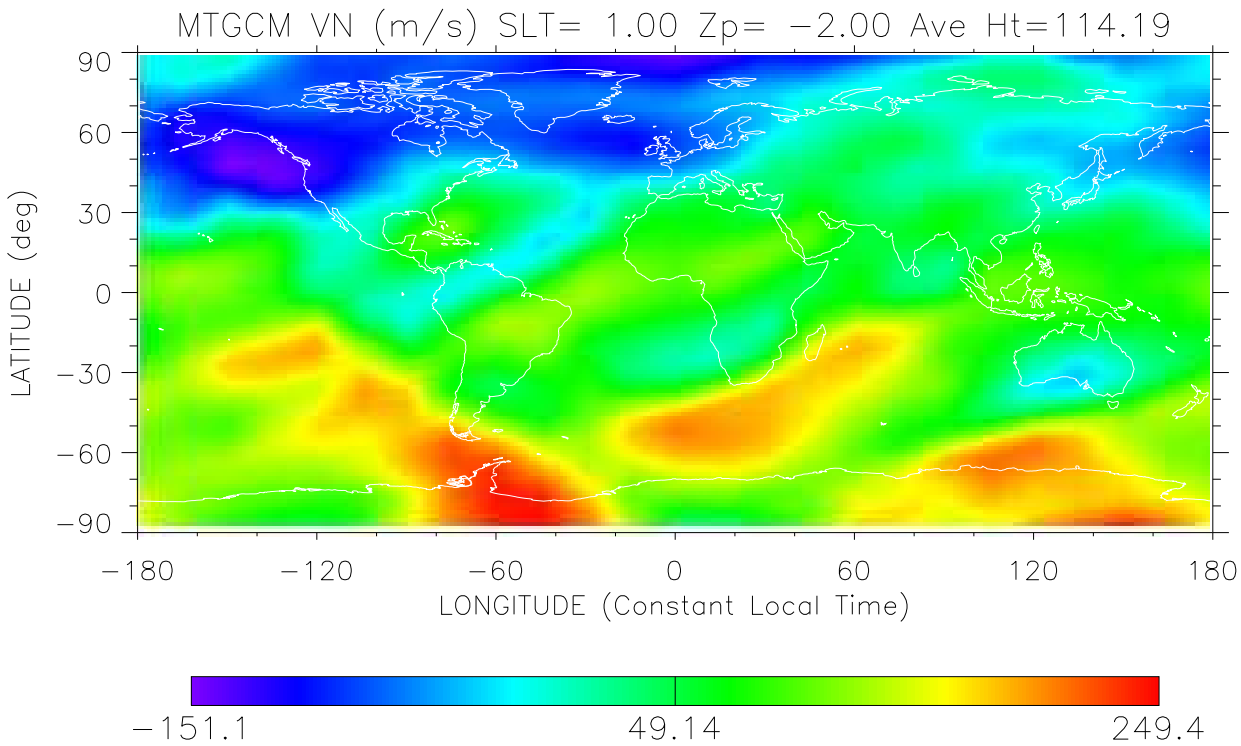

MTGCM UN (m/s) SLT= 1.00 Zp= −7.00 Ave Ht= 76.36
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−308.9
134.6
578.1

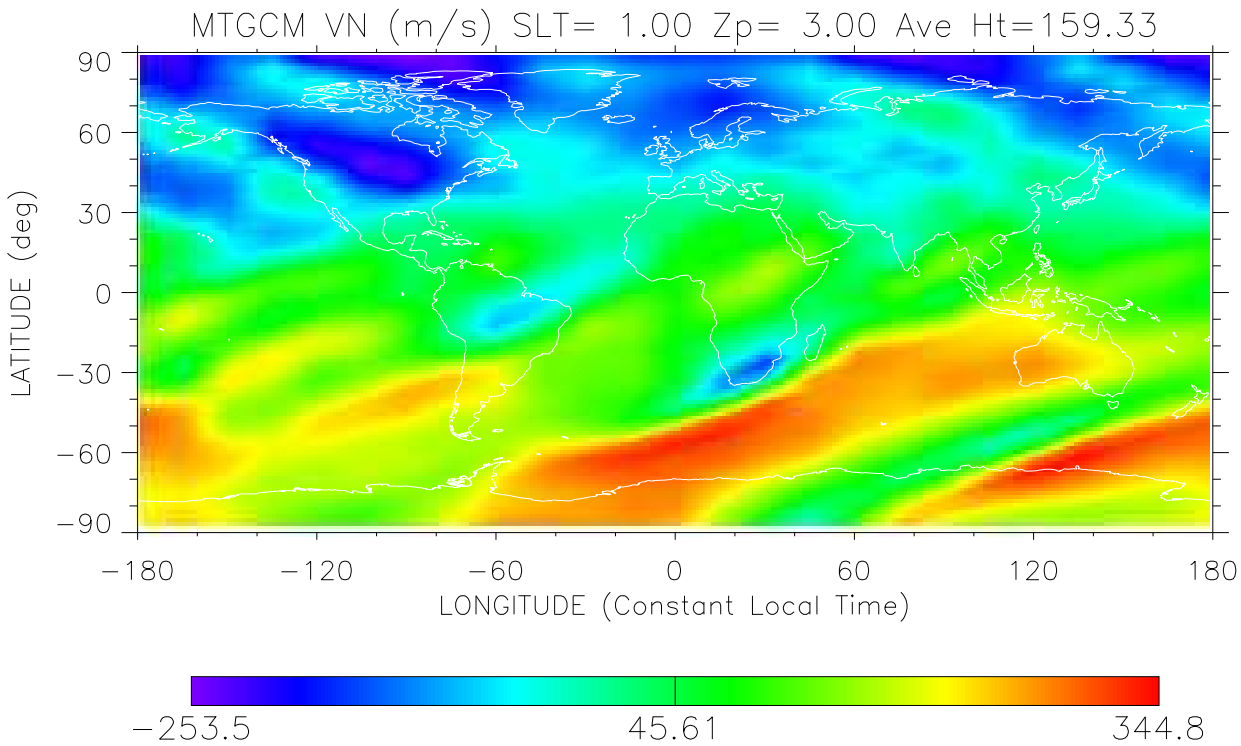

MTGCM UN (m/s) SLT= 1.00 Zp= −2.00 Ave Ht=114.19
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−310.8
−120.6
69.69

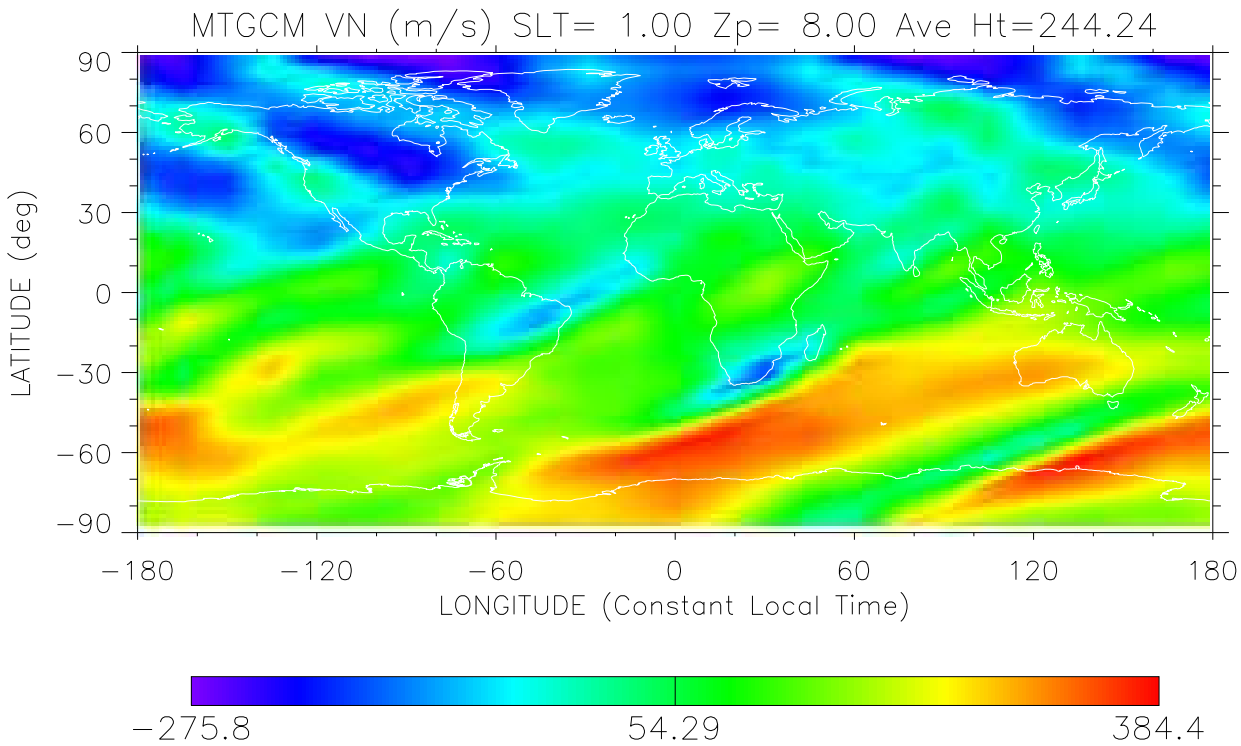

MTGCM UN (m/s) SLT= 1.00 Zp= 3.00 Ave Ht=159.33
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−426.4
−164.0
98.37

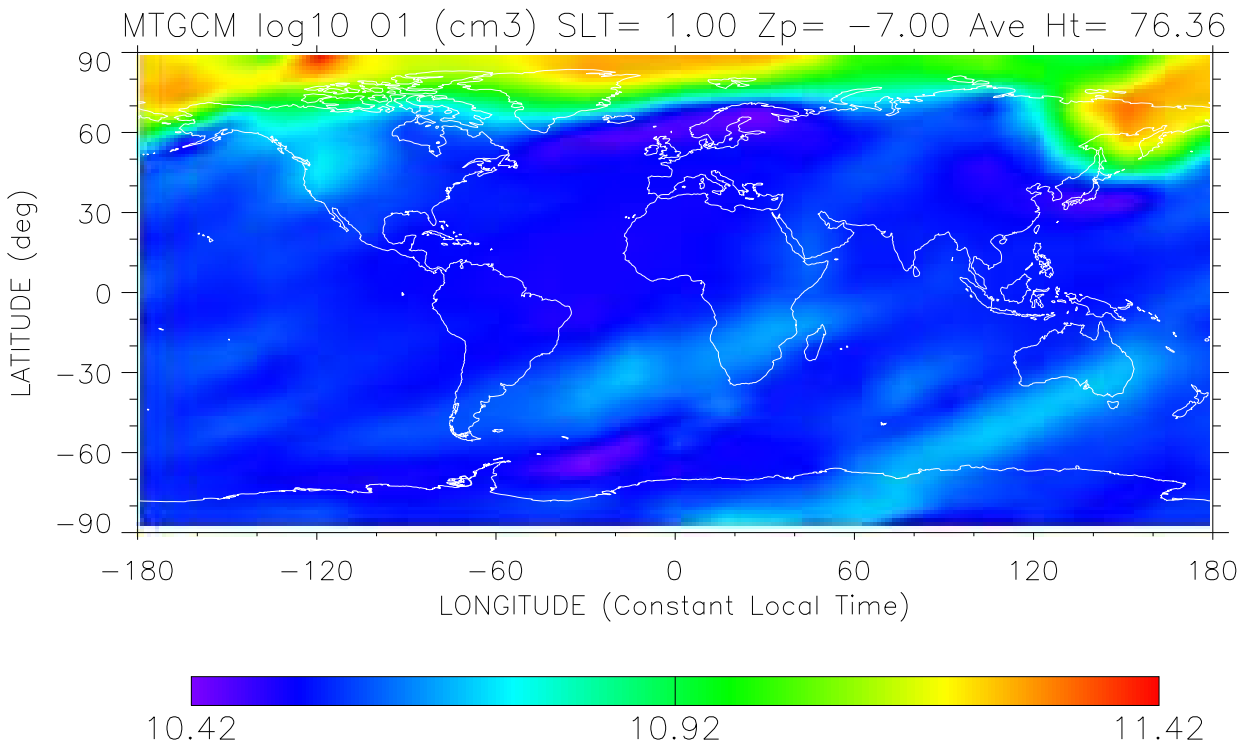

MTGCM UN (m/s) SLT= 1.00 Zp= 8.00 Ave Ht=244.24
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−439.1
−180.9
77.32

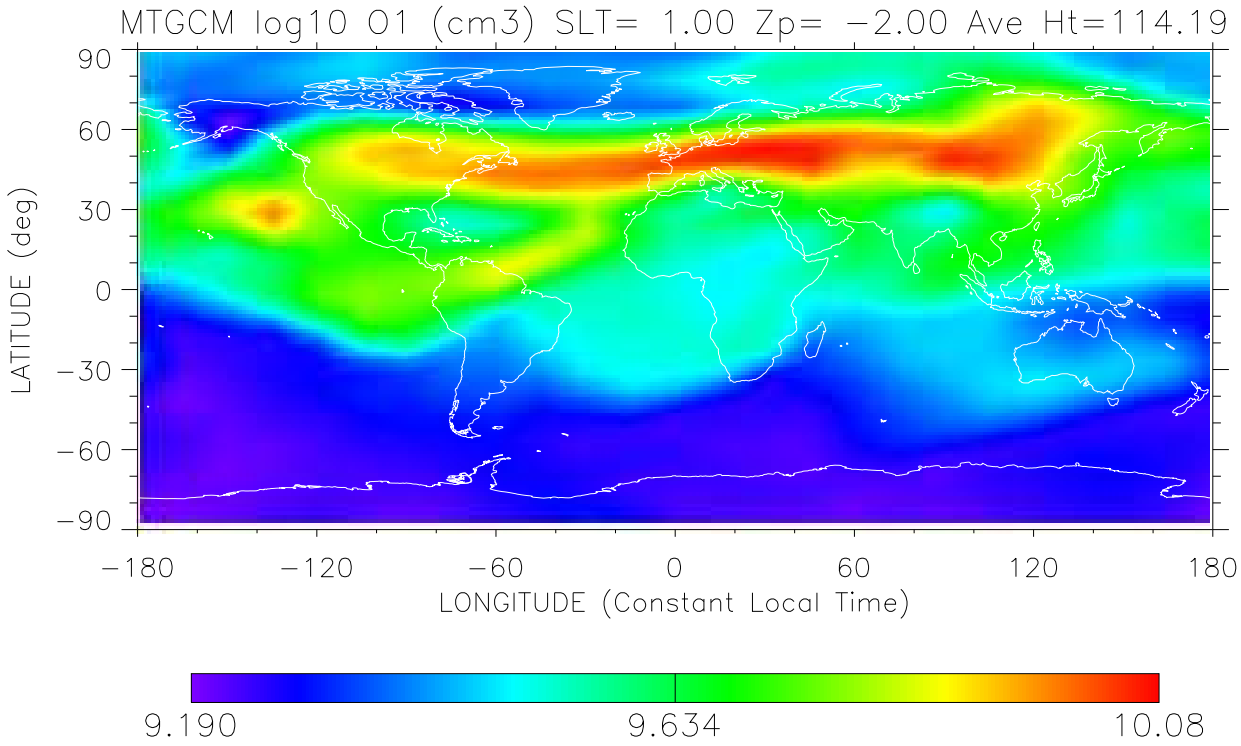

MTGCM VN (m/s) SLT= 1.00 Zp= −7.00 Ave Ht= 76.36
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−526.1
−1.275
523.5

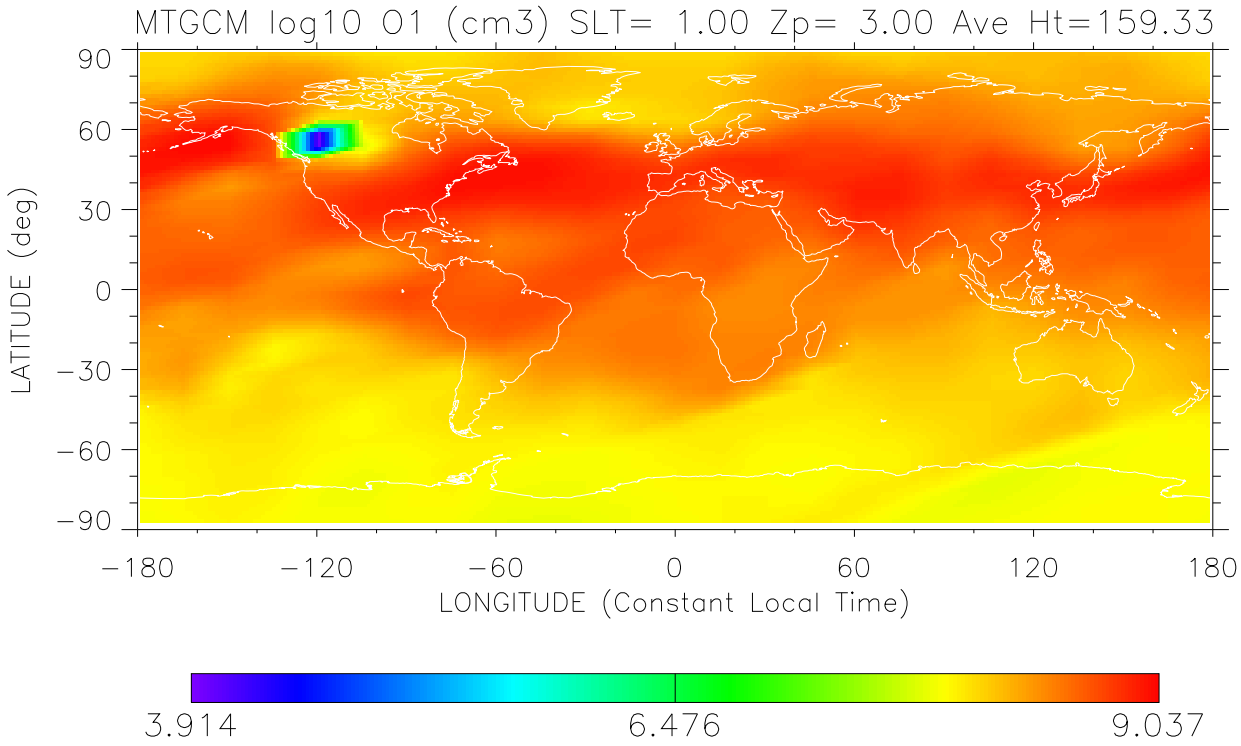

MTGCM VN (m/s) SLT= 1.00 Zp= −2.00 Ave Ht=114.19
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−151.1
49.14
249.4

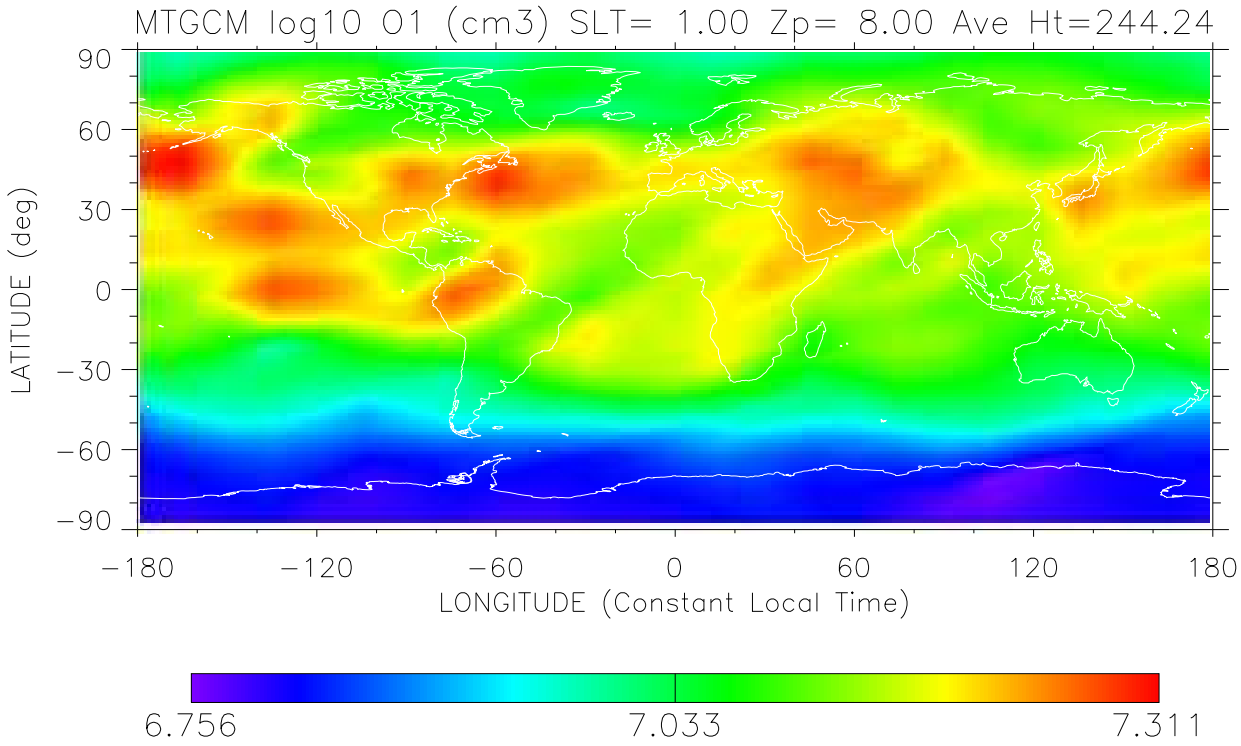

MTGCM VN (m/s) SLT= 1.00 Zp= 3.00 Ave Ht=159.33
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−253.5
45.61
344.8

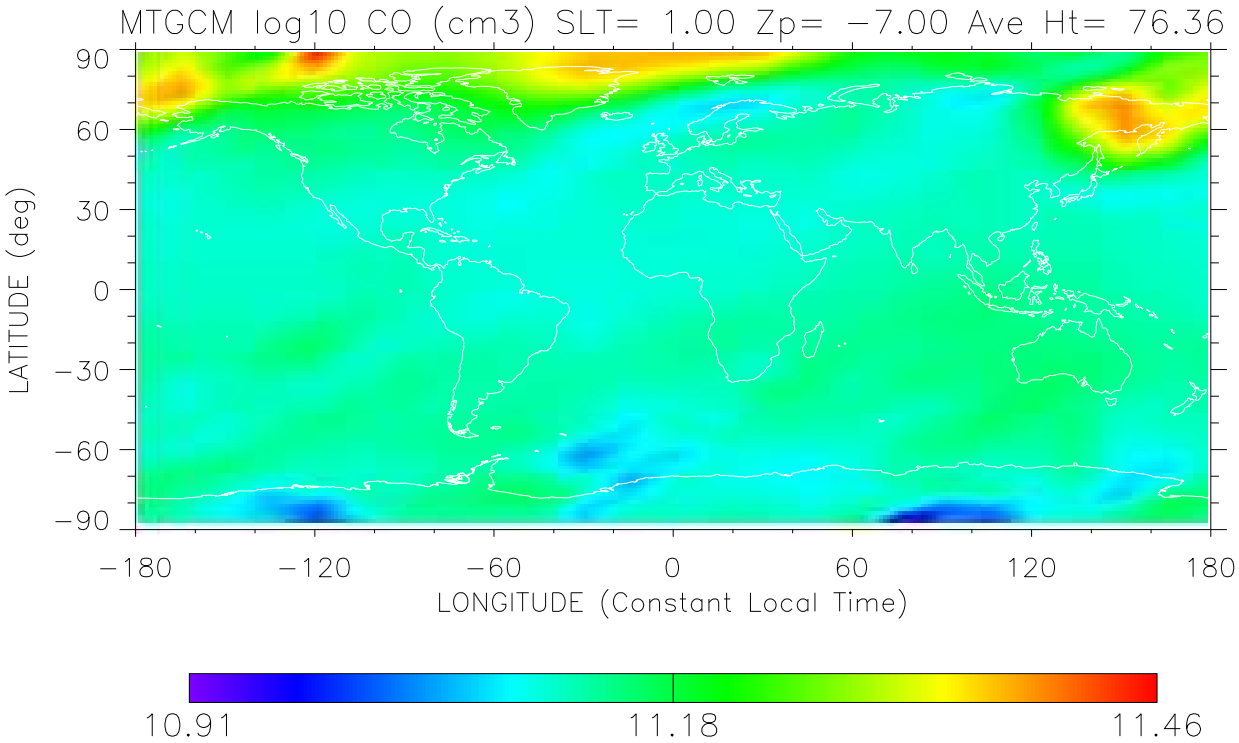

MTGCM VN (m/s) SLT= 1.00 Zp= 8.00 Ave Ht=244.24
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−275.8
54.29
384.4

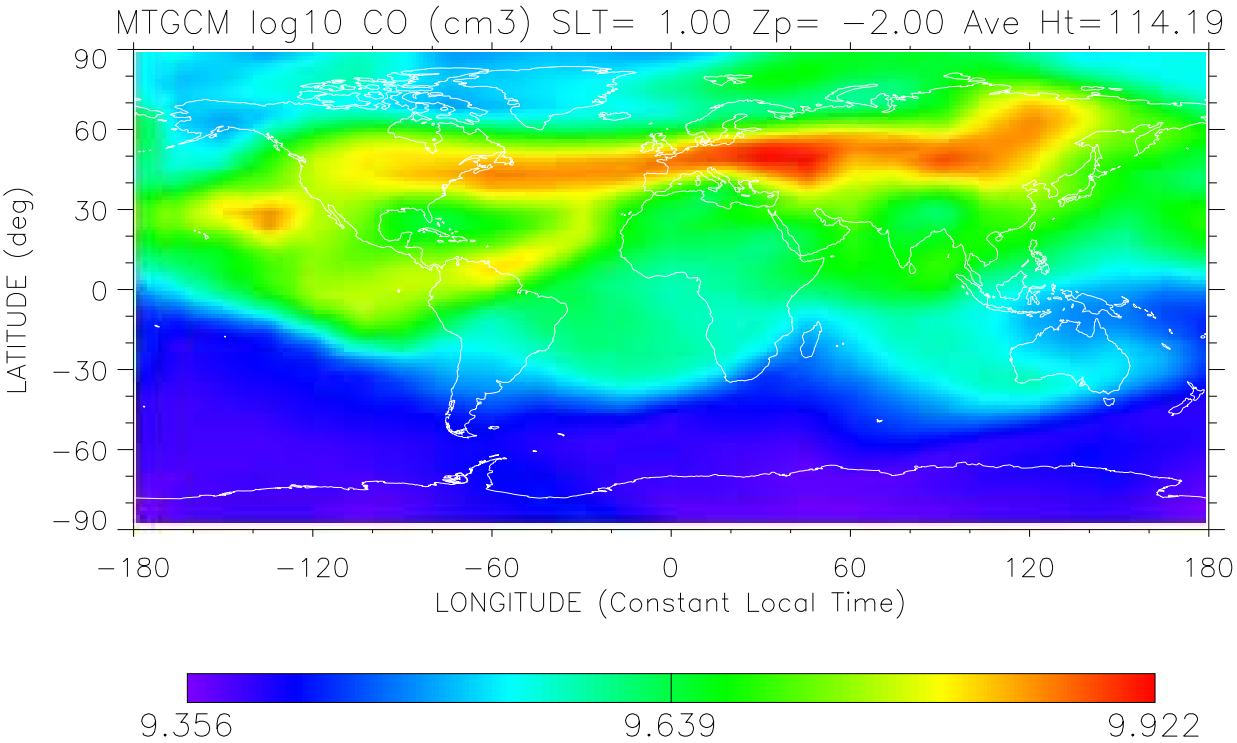

MTGCM log10 O1 (cm3) SLT= 1.00 Zp= −7.00 Ave Ht= 76.36
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
10.42
10.92
11.42

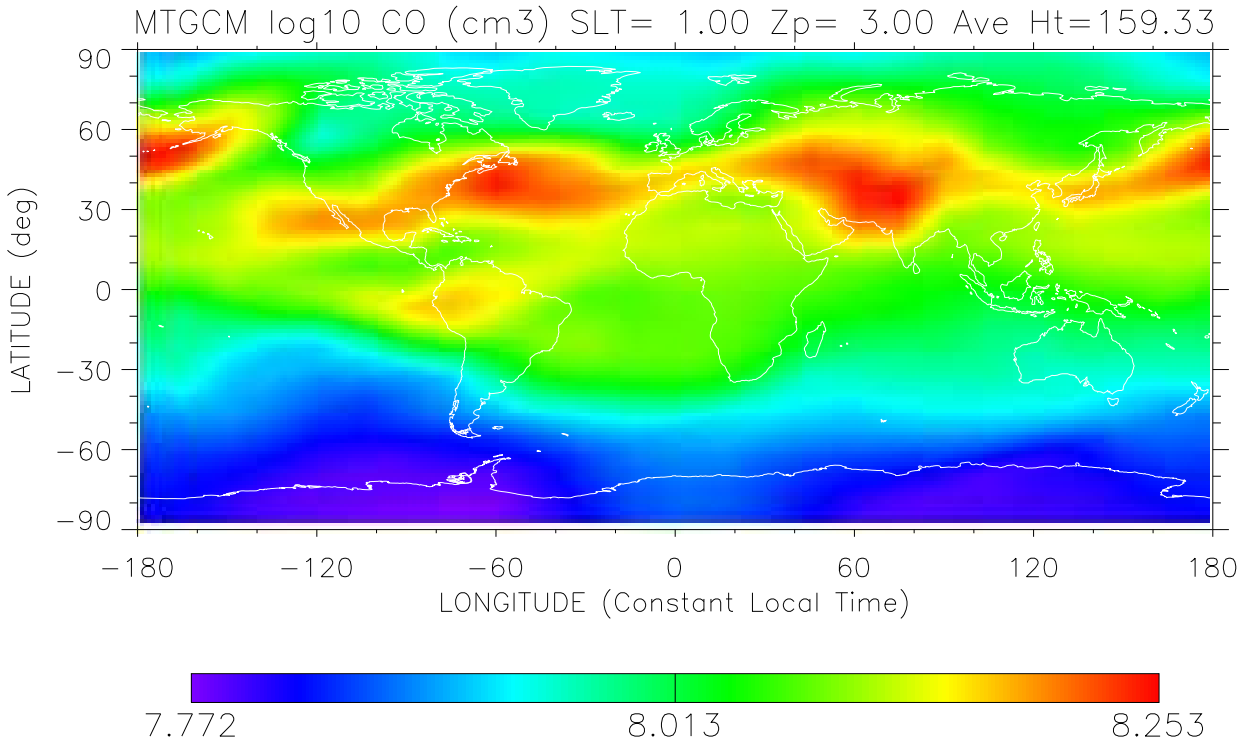

MTGCM log10 O1 (cm3) SLT= 1.00 Zp= −2.00 Ave Ht=114.19
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
9.190
9.634
10.08

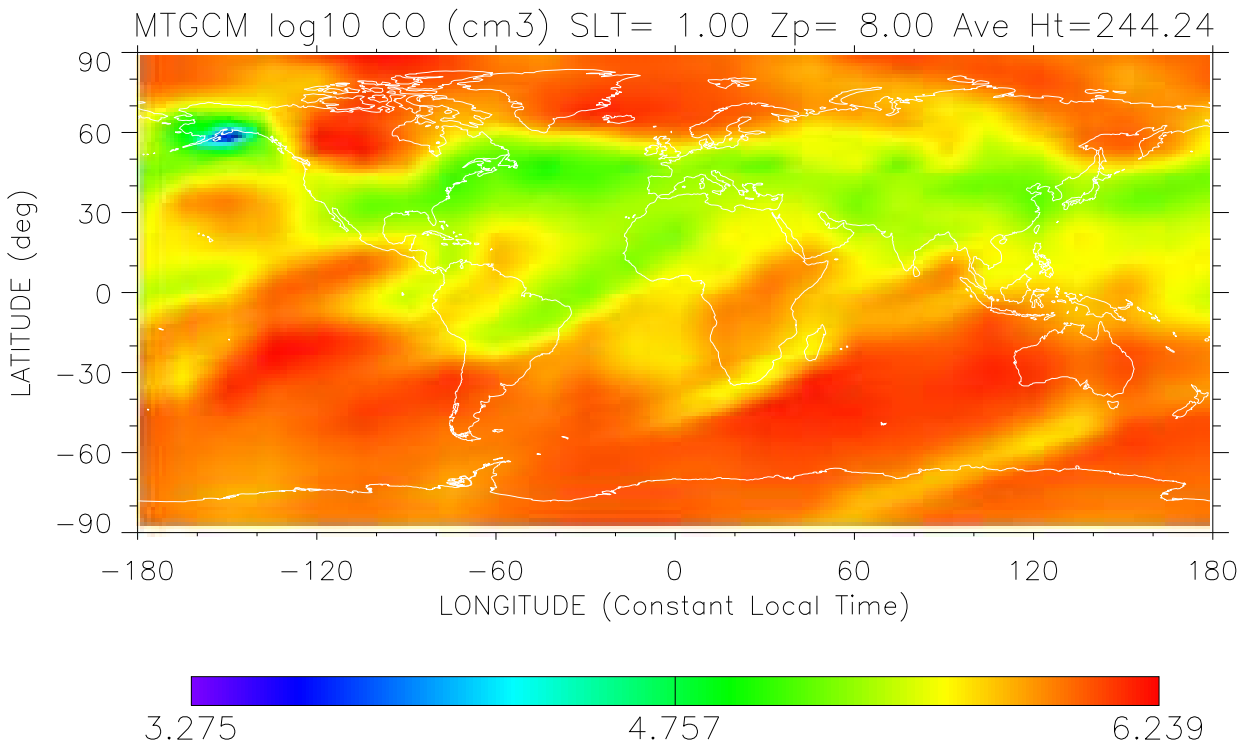

MTGCM log10 O1 (cm3) SLT= 1.00 Zp= 3.00 Ave Ht=159.33
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
3.914
6.476
9.037

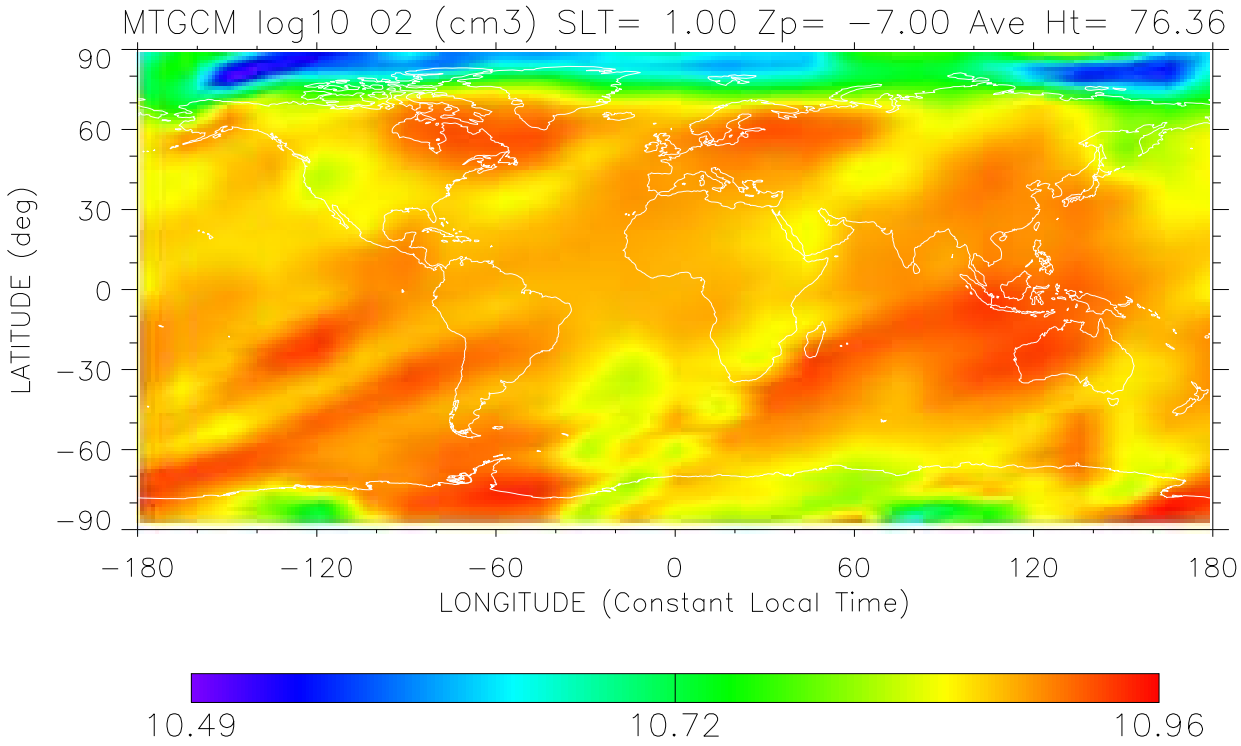

MTGCM log10 O1 (cm3) SLT= 1.00 Zp= 8.00 Ave Ht=244.24
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
6.756
7.033
7.311

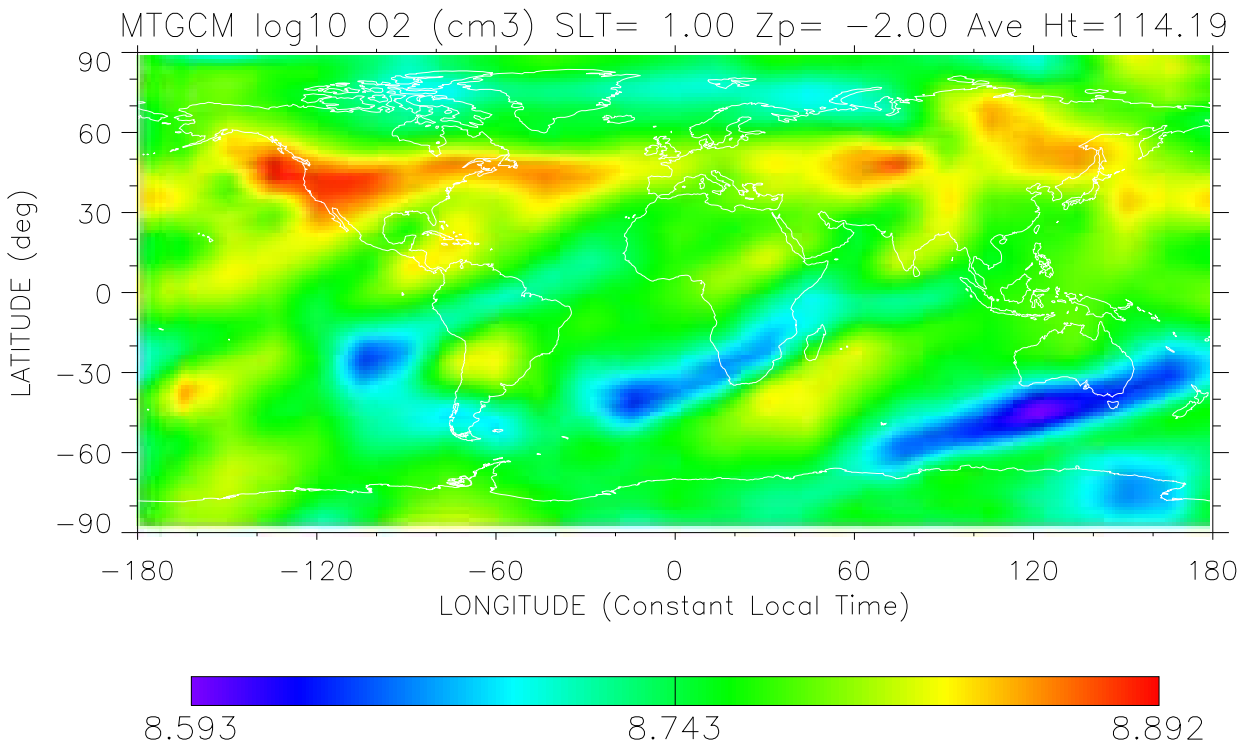

MTGCM log10 CO (cm3) SLT= 1.00 Zp= −7.00 Ave Ht= 76.36
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
10.91
11.18
11.46

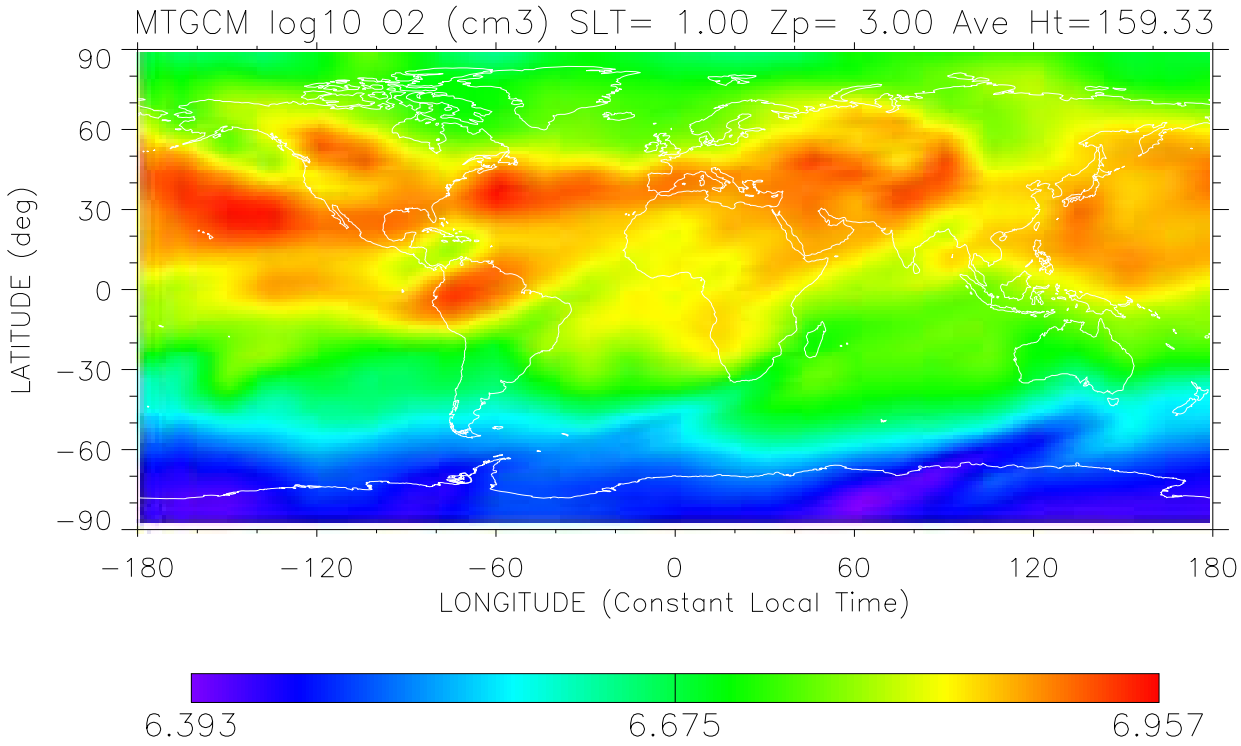

MTGCM log10 CO (cm3) SLT= 1.00 Zp= −2.00 Ave Ht=114.19
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
9.356
9.639
9.922

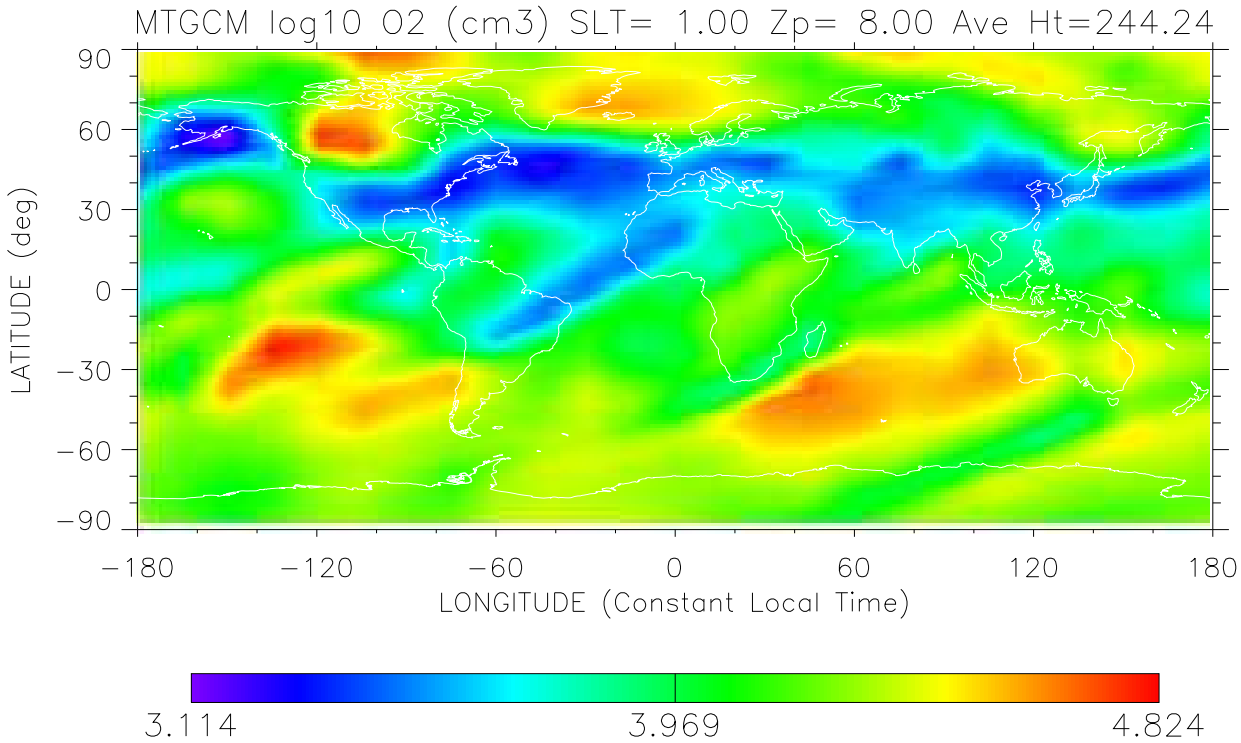

MTGCM log10 CO (cm3) SLT= 1.00 Zp= 3.00 Ave Ht=159.33
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
7.772
8.013
8.253

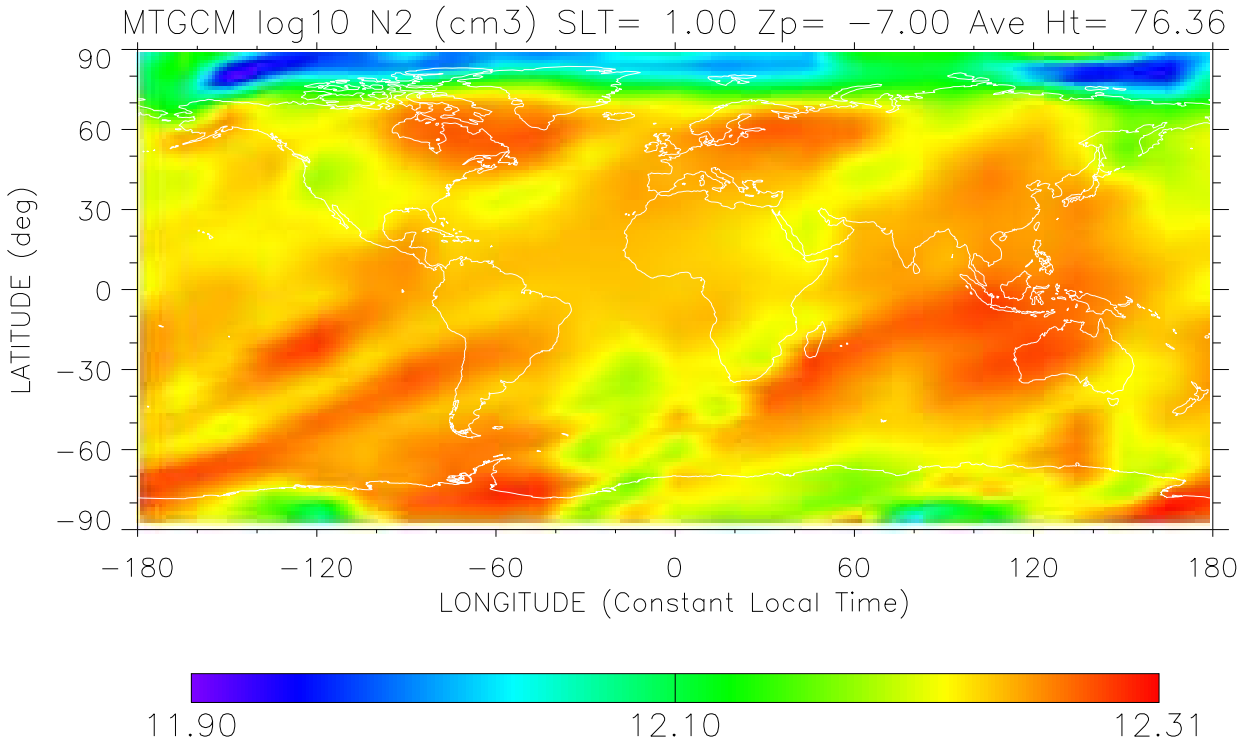

MTGCM log10 CO (cm3) SLT= 1.00 Zp= 8.00 Ave Ht=244.24
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
3.275
4.757
6.239

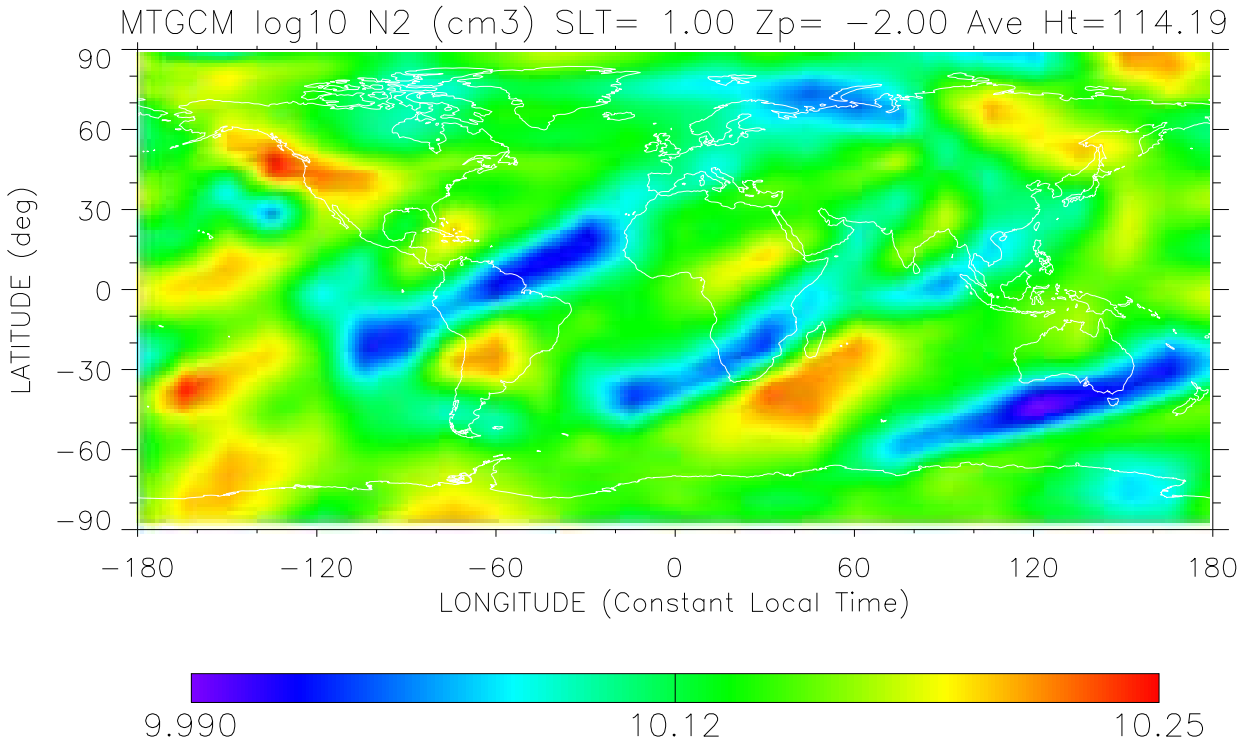

MTGCM log10 O2 (cm3) SLT= 1.00 Zp= −7.00 Ave Ht= 76.36
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
10.49
10.72
10.96

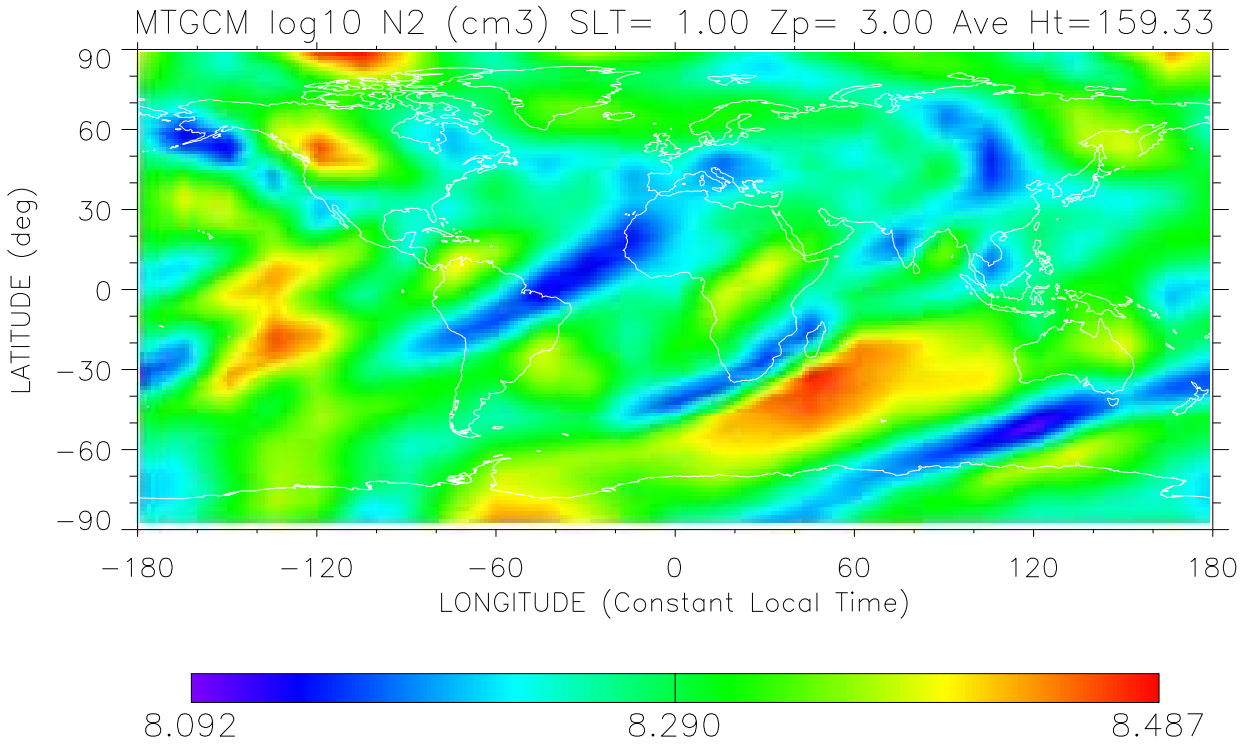

MTGCM log10 O2 (cm3) SLT= 1.00 Zp= −2.00 Ave Ht=114.19
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
8.593
8.743
8.892

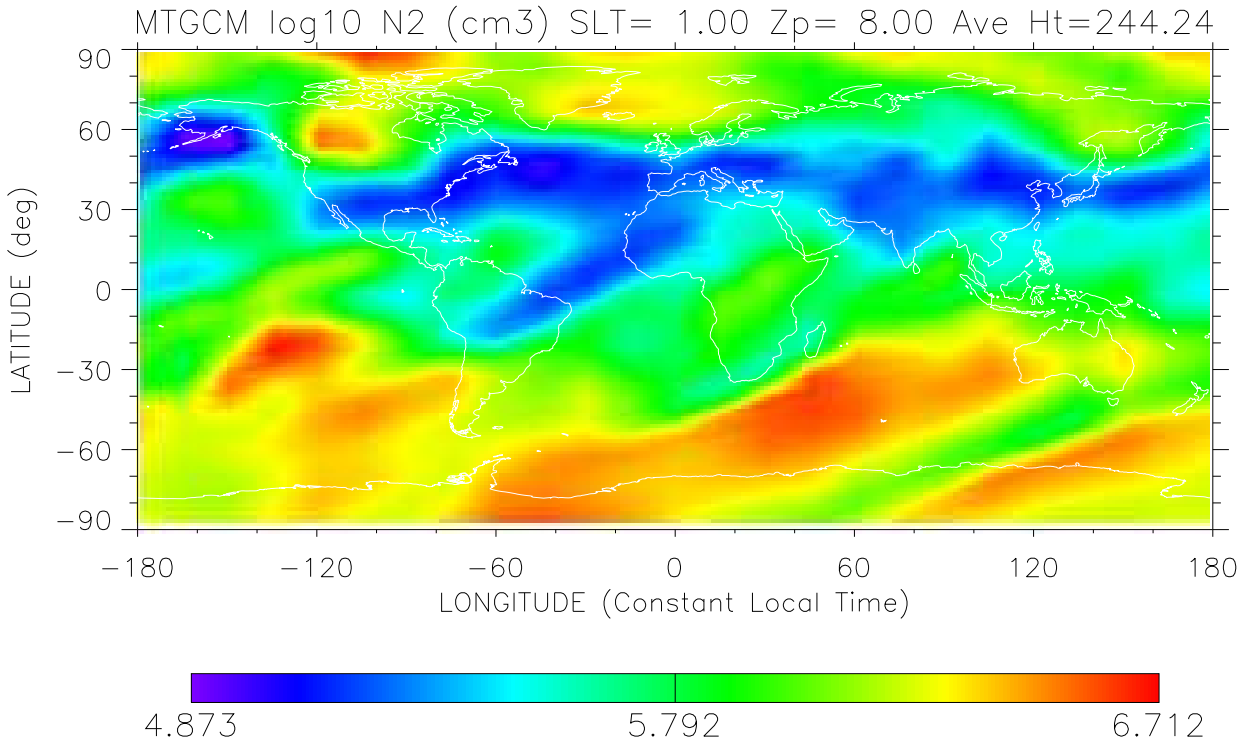

MTGCM log10 O2 (cm3) SLT= 1.00 Zp= 3.00 Ave Ht=159.33
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
6.393
6.675
6.957

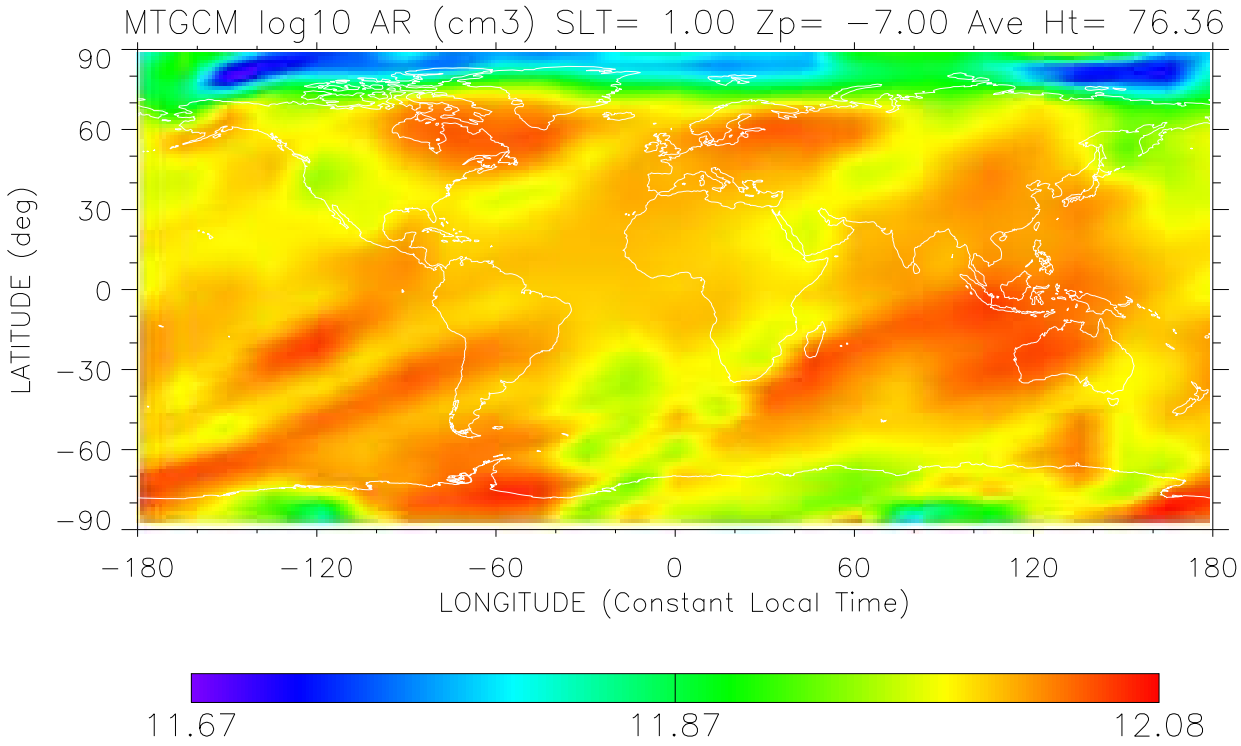

MTGCM log10 O2 (cm3) SLT= 1.00 Zp= 8.00 Ave Ht=244.24
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
3.114
3.969
4.824

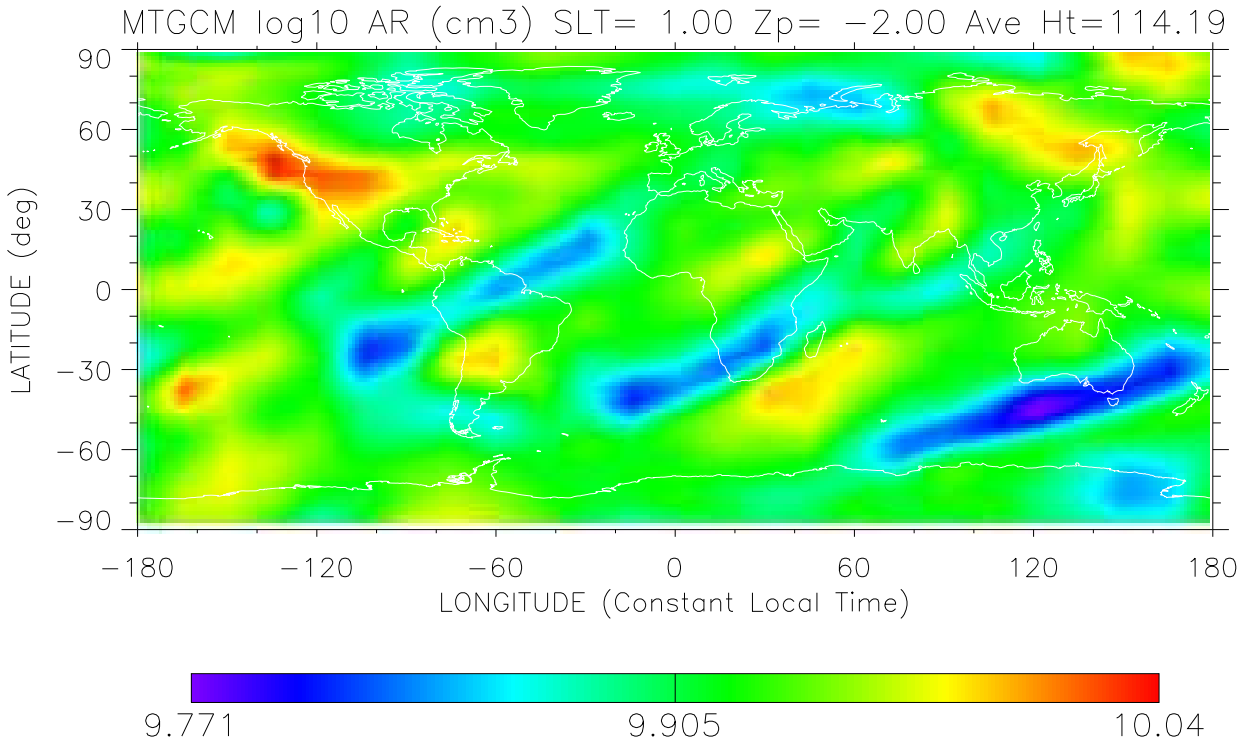

MTGCM log10 N2 (cm3) SLT= 1.00 Zp= −7.00 Ave Ht= 76.36
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
11.90
12.10
12.31

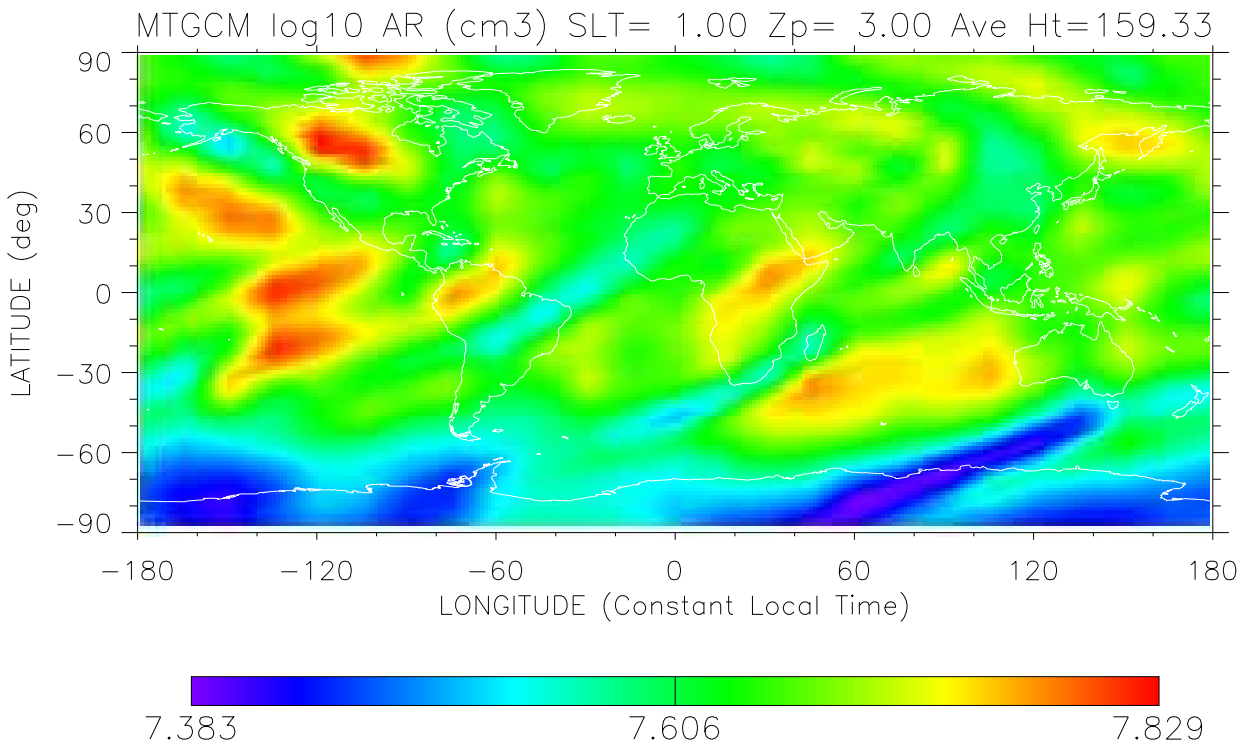

MTGCM log10 N2 (cm3) SLT= 1.00 Zp= −2.00 Ave Ht=114.19
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
9.990
10.12
10.25

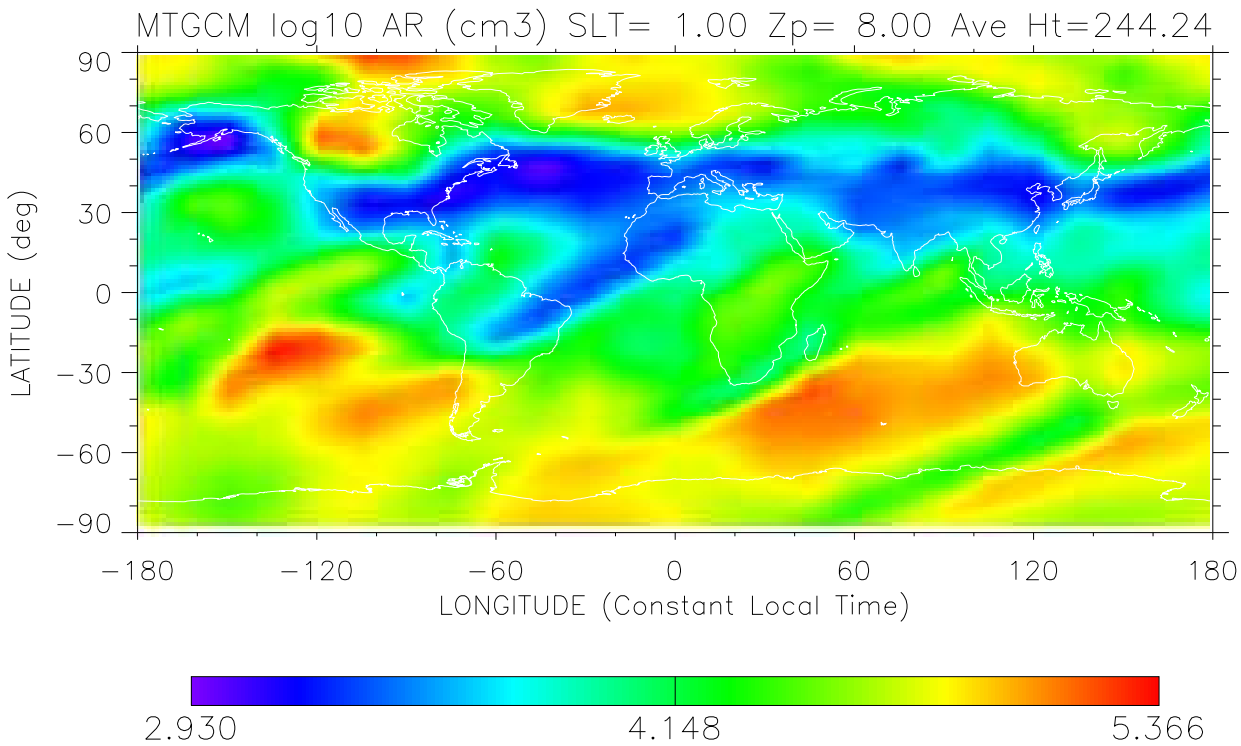

MTGCM log10 N2 (cm3) SLT= 1.00 Zp= 3.00 Ave Ht=159.33
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
8.092
8.290
8.487

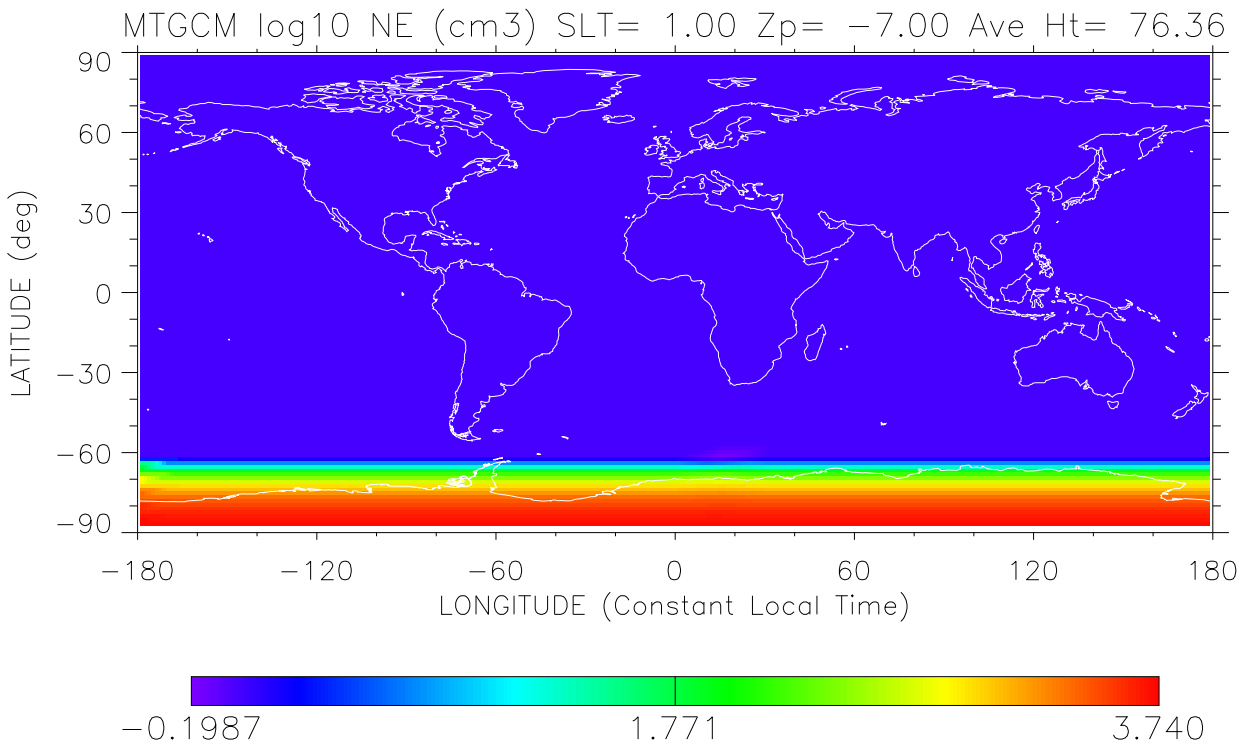

MTGCM log10 N2 (cm3) SLT= 1.00 Zp= 8.00 Ave Ht=244.24
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
4.873
5.792
6.712

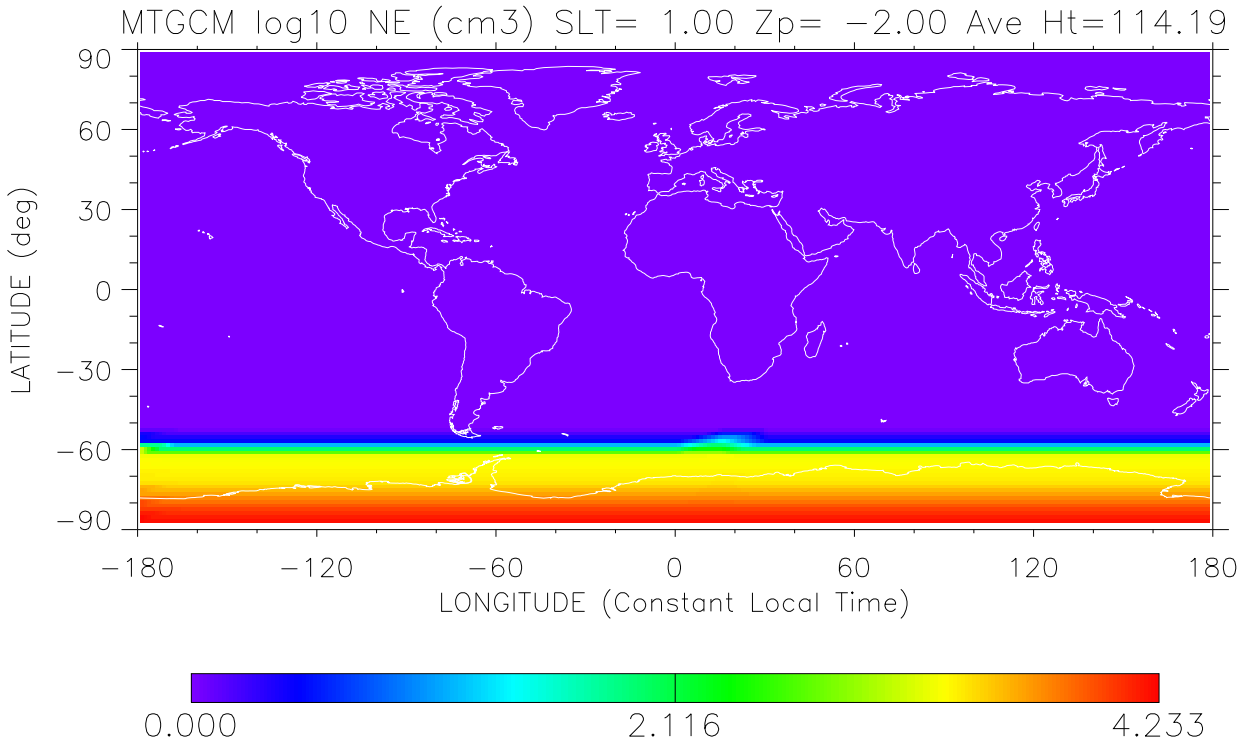

MTGCM log10 AR (cm3) SLT= 1.00 Zp= −7.00 Ave Ht= 76.36
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
11.67
11.87
12.08

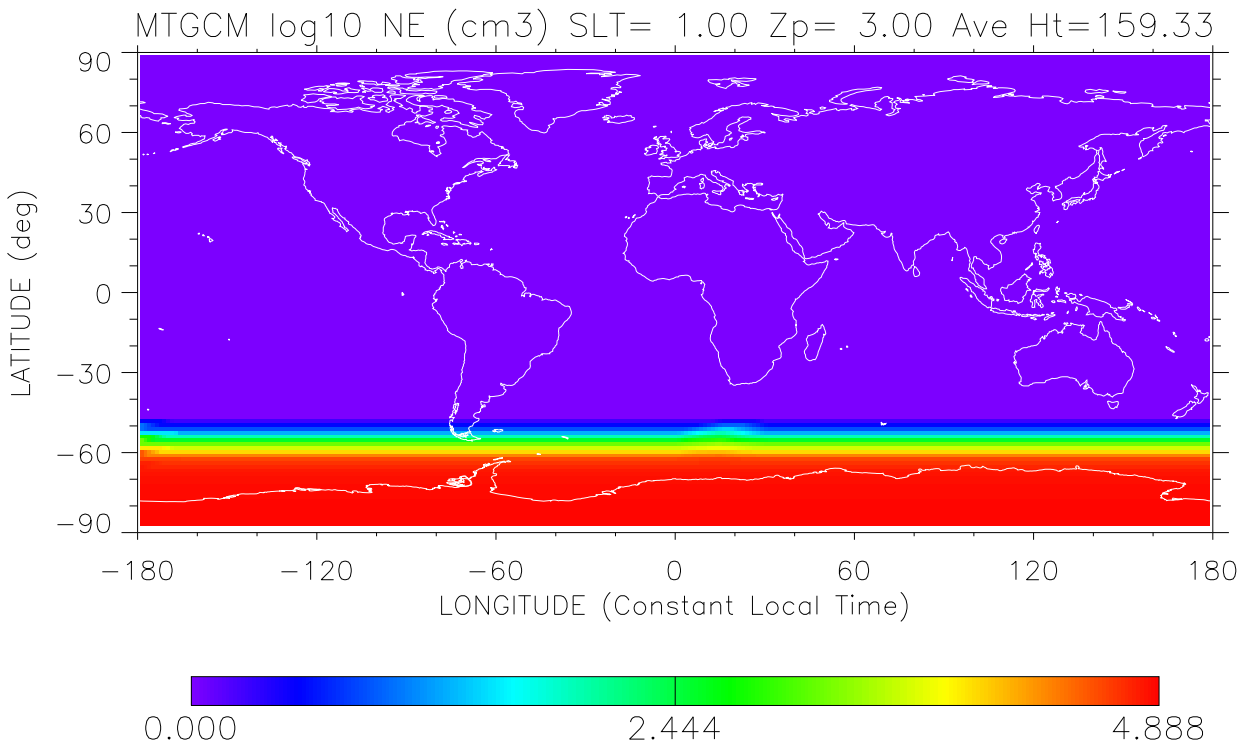

MTGCM log10 AR (cm3) SLT= 1.00 Zp= −2.00 Ave Ht=114.19
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
9.771
9.905
10.04

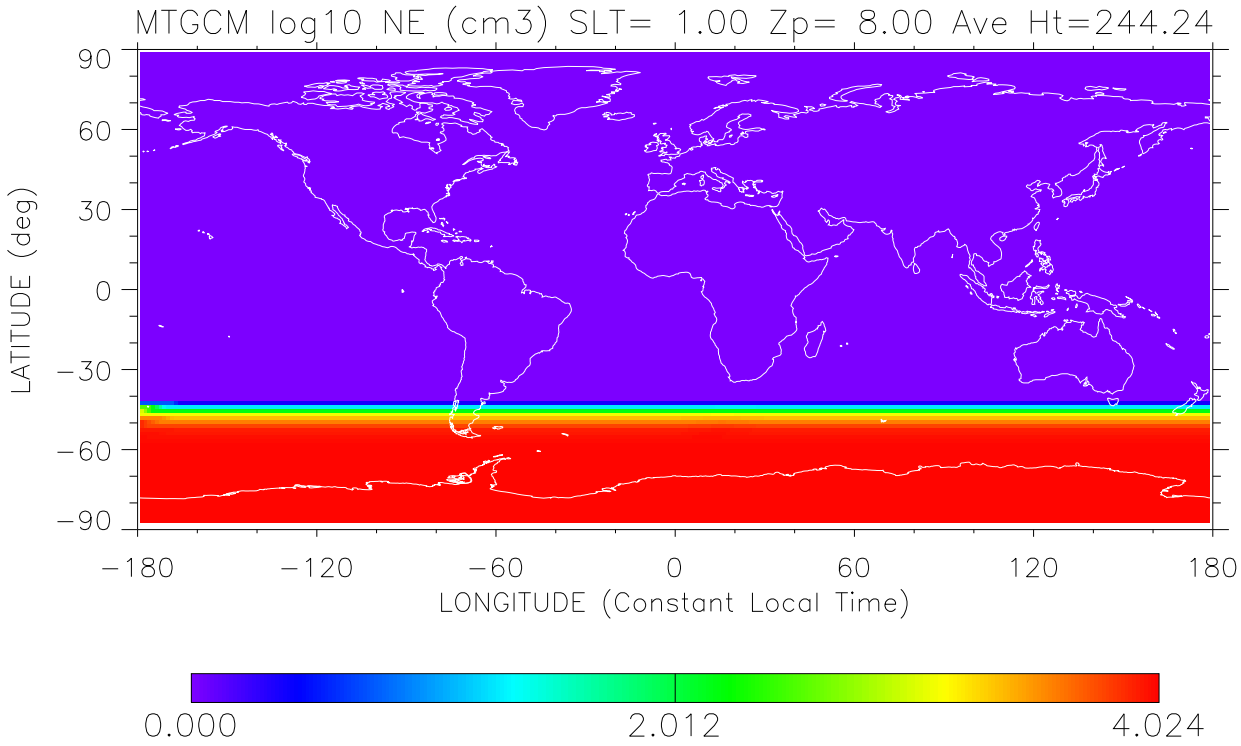

MTGCM log10 AR (cm3) SLT= 1.00 Zp= 3.00 Ave Ht=159.33
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
7.383
7.606
7.829

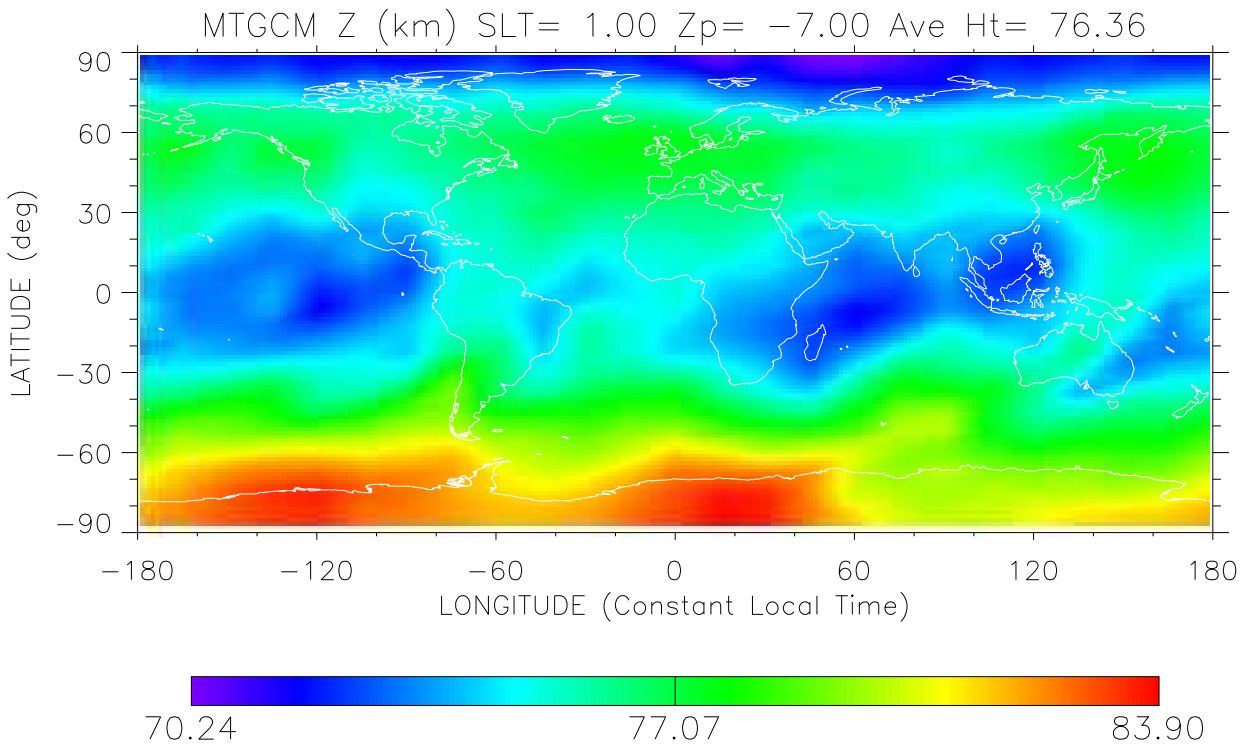

MTGCM log10 AR (cm3) SLT= 1.00 Zp= 8.00 Ave Ht=244.24
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
2.930
4.148
5.366

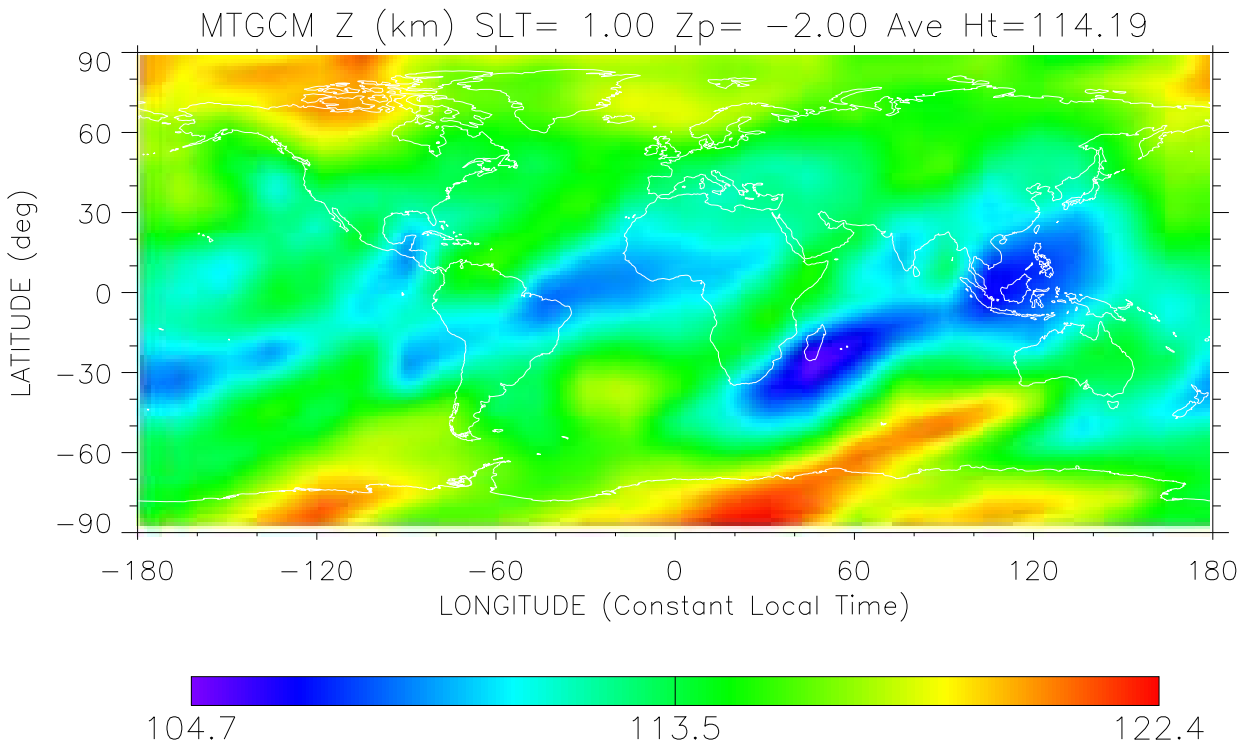

MTGCM log10 NE (cm3) SLT= 1.00 Zp= −7.00 Ave Ht= 76.36
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−0.1987
1.771
3.740

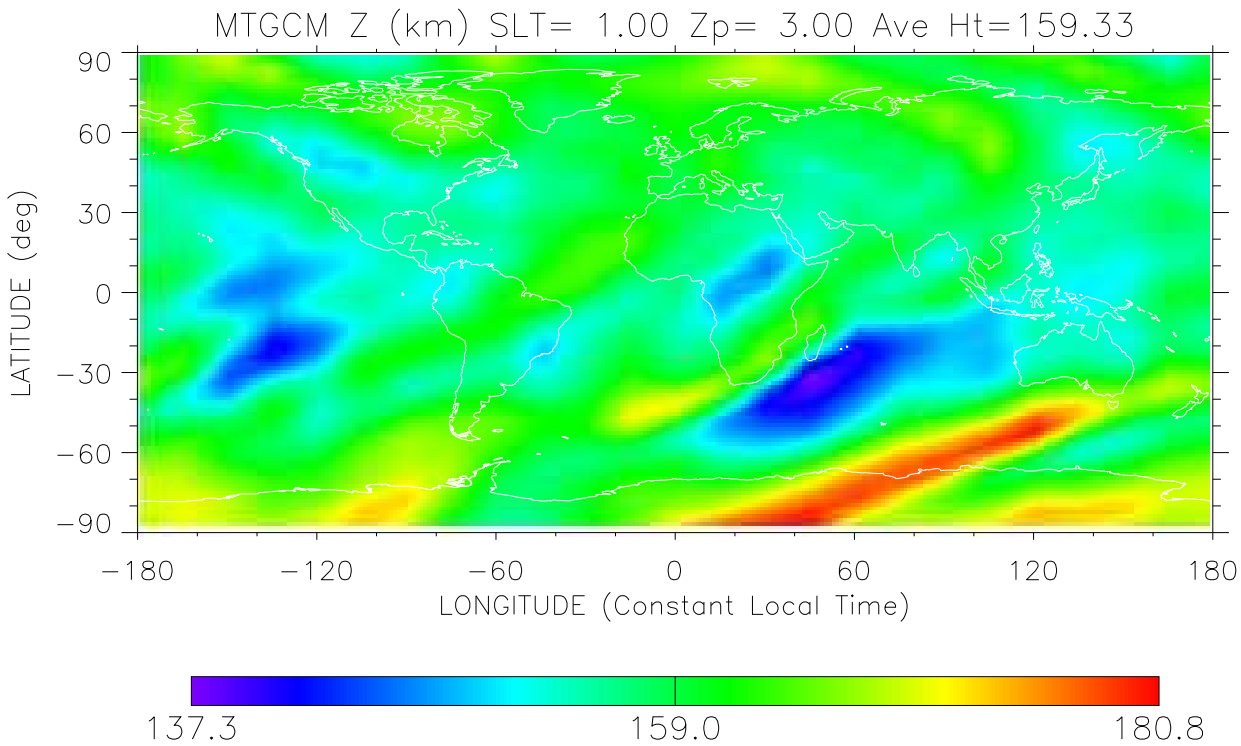

MTGCM log10 NE (cm3) SLT= 1.00 Zp= −2.00 Ave Ht=114.19
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
0.000
2.116
4.233

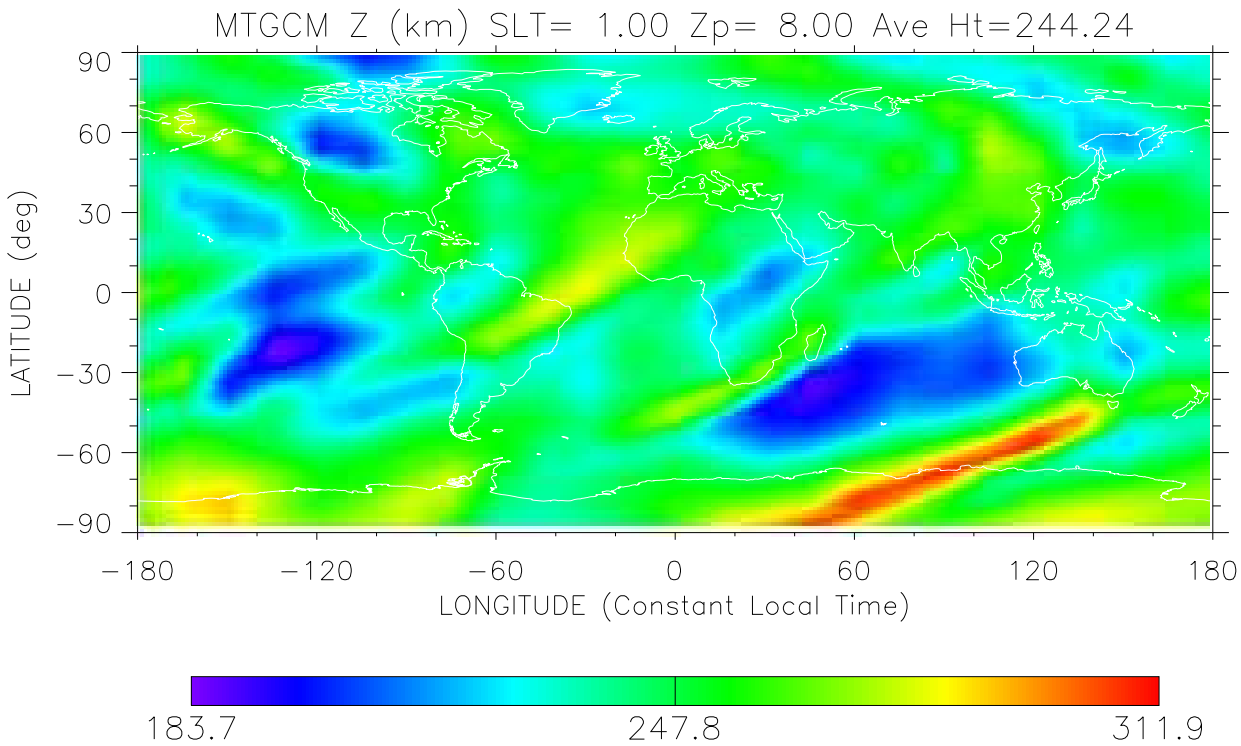

MTGCM log10 NE (cm3) SLT= 1.00 Zp= 3.00 Ave Ht=159.33
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
0.000
2.444
4.888

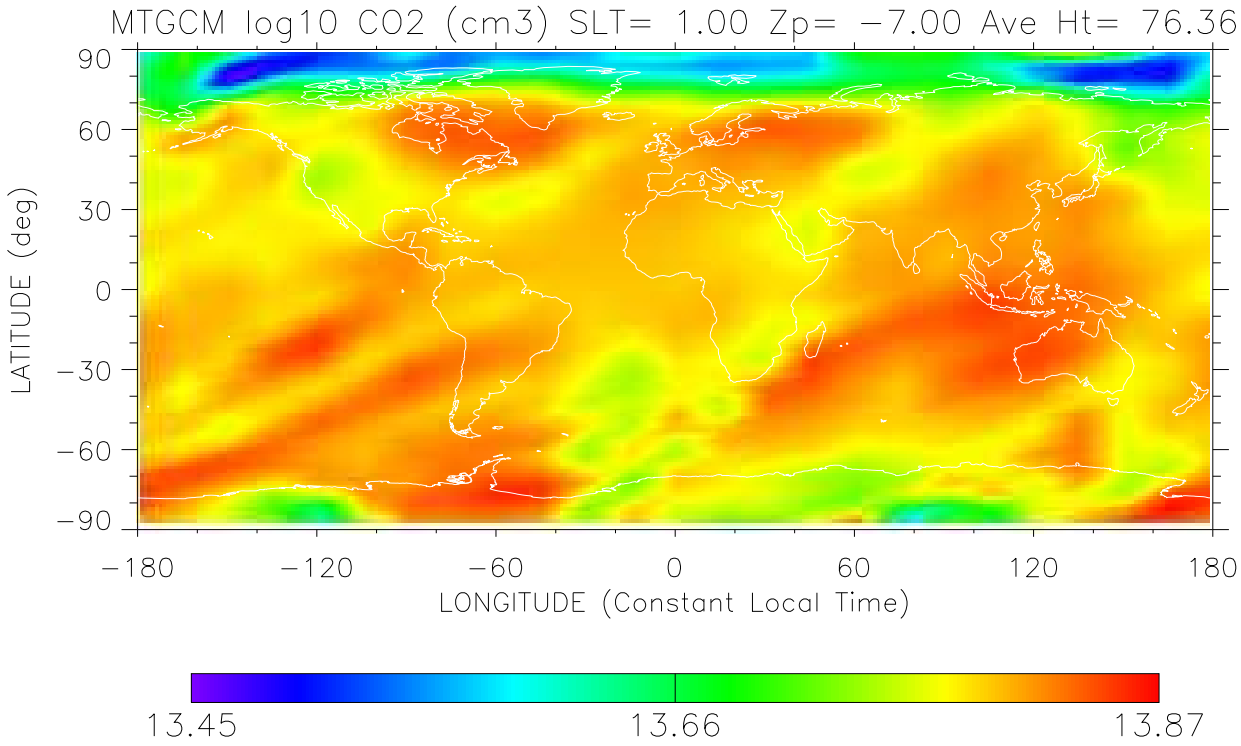

MTGCM log10 NE (cm3) SLT= 1.00 Zp= 8.00 Ave Ht=244.24
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
0.000
2.012
4.024

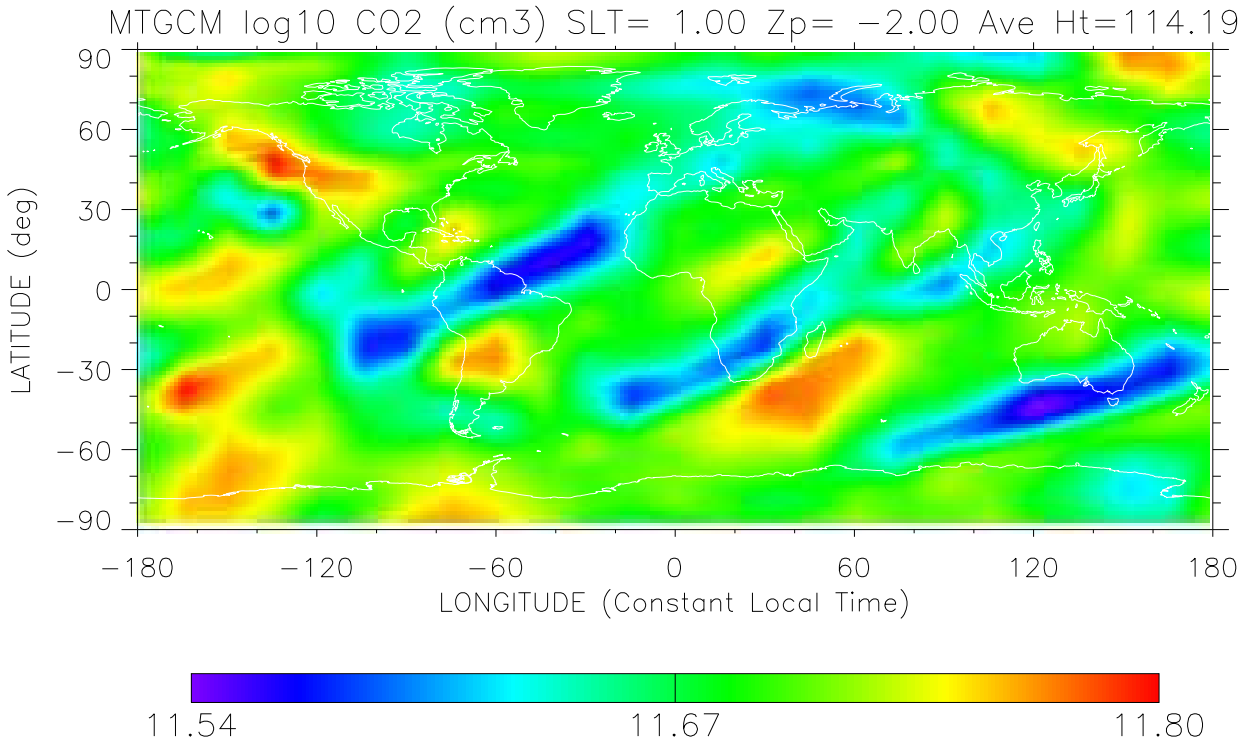

MTGCM Z (km) SLT= 1.00 Zp= −7.00 Ave Ht= 76.36
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
70.24
77.07
83.90

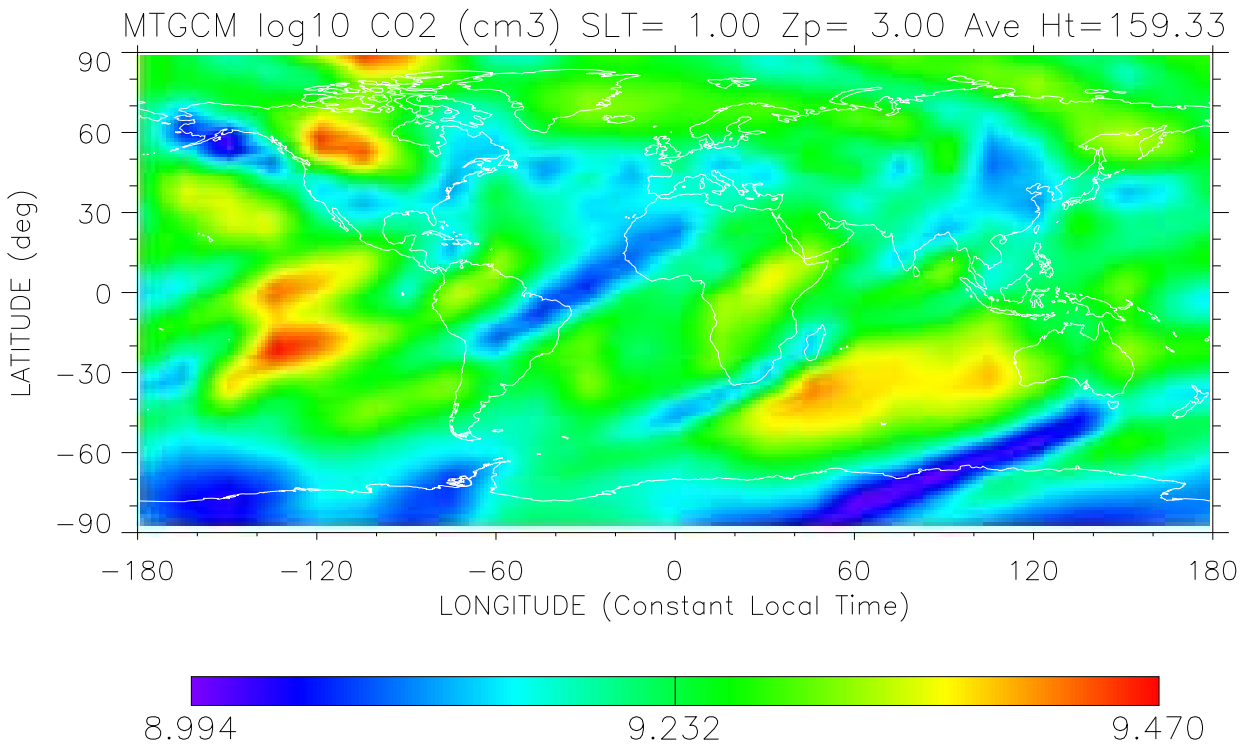

MTGCM Z (km) SLT= 1.00 Zp= −2.00 Ave Ht=114.19
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
104.7
113.5
122.4

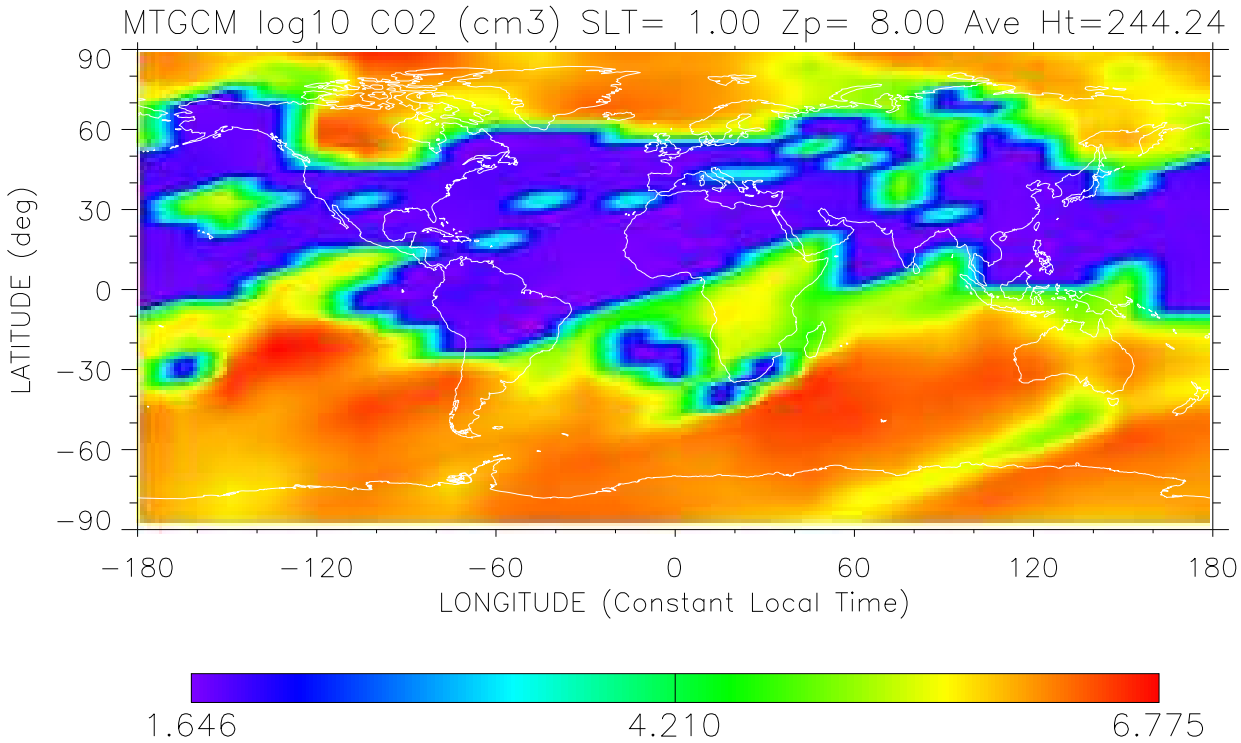

MTGCM Z (km) SLT= 1.00 Zp= 3.00 Ave Ht=159.33
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
137.3
159.0
180.8

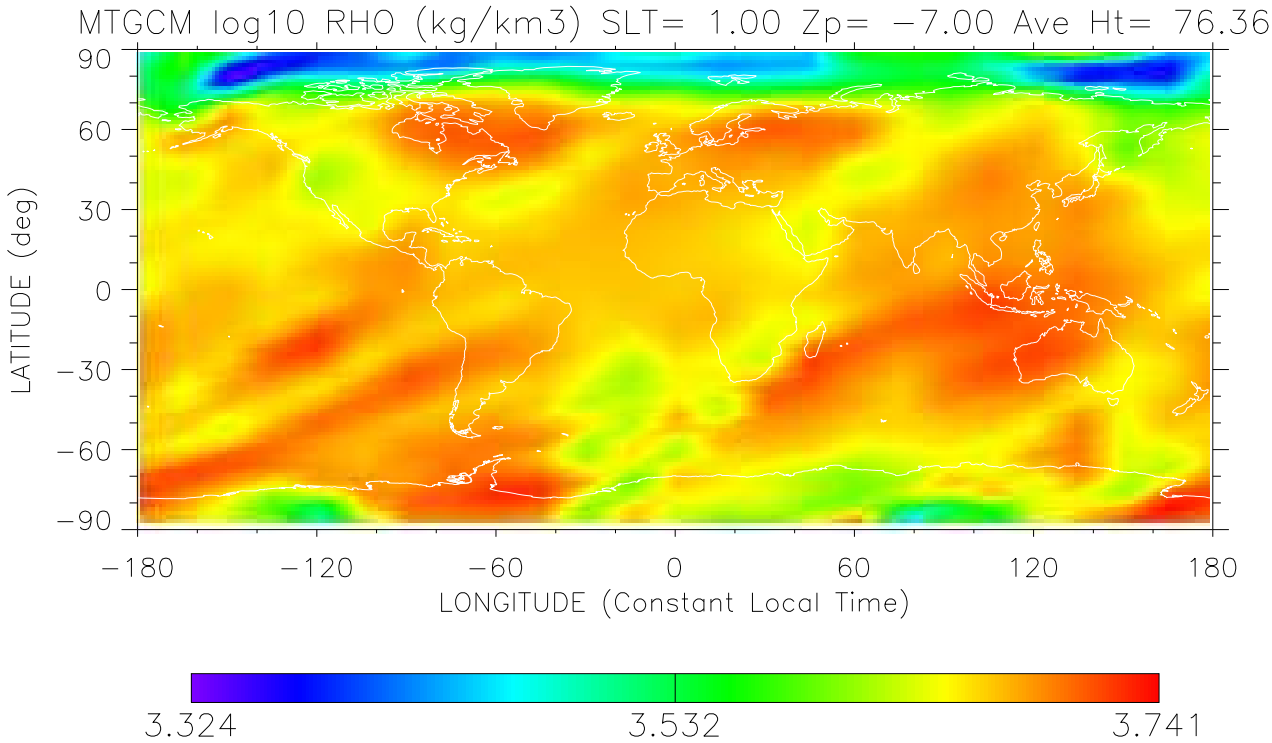

MTGCM Z (km) SLT= 1.00 Zp= 8.00 Ave Ht=244.24
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
183.7
247.8
311.9

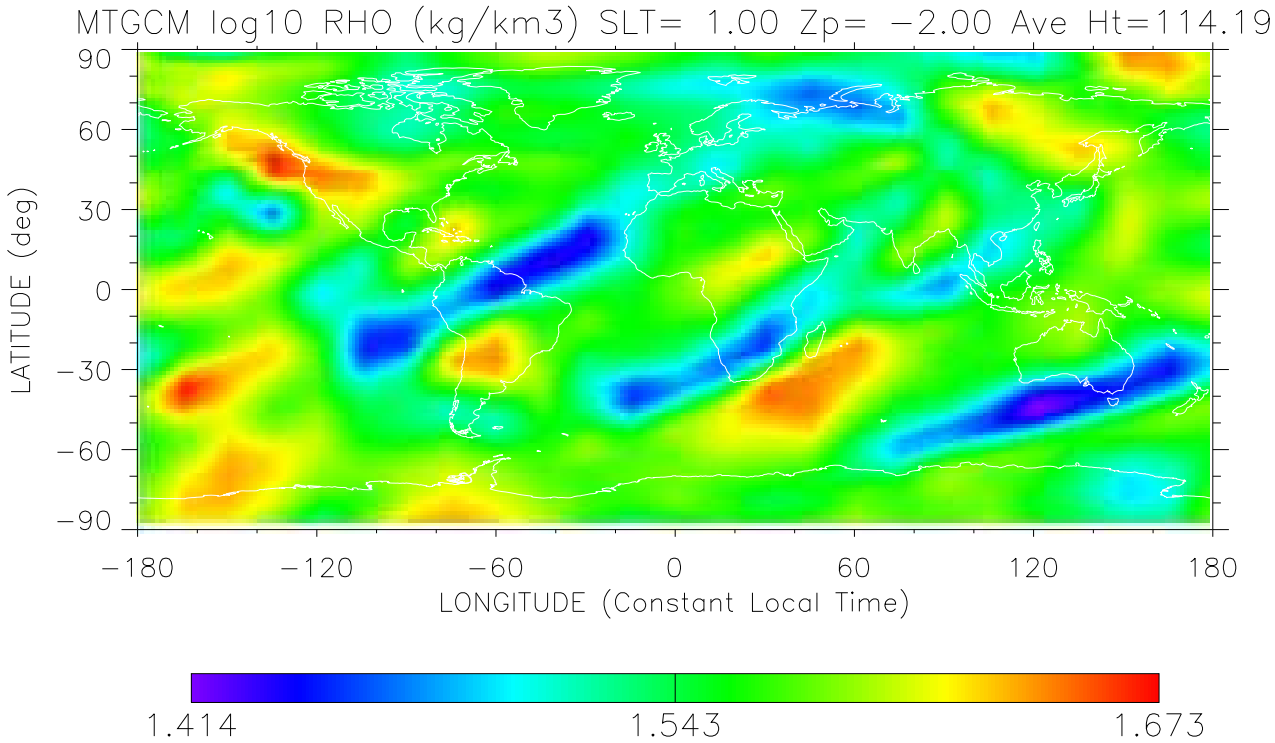

MTGCM log10 CO2 (cm3) SLT= 1.00 Zp= −7.00 Ave Ht= 76.36
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
13.45
13.66
13.87

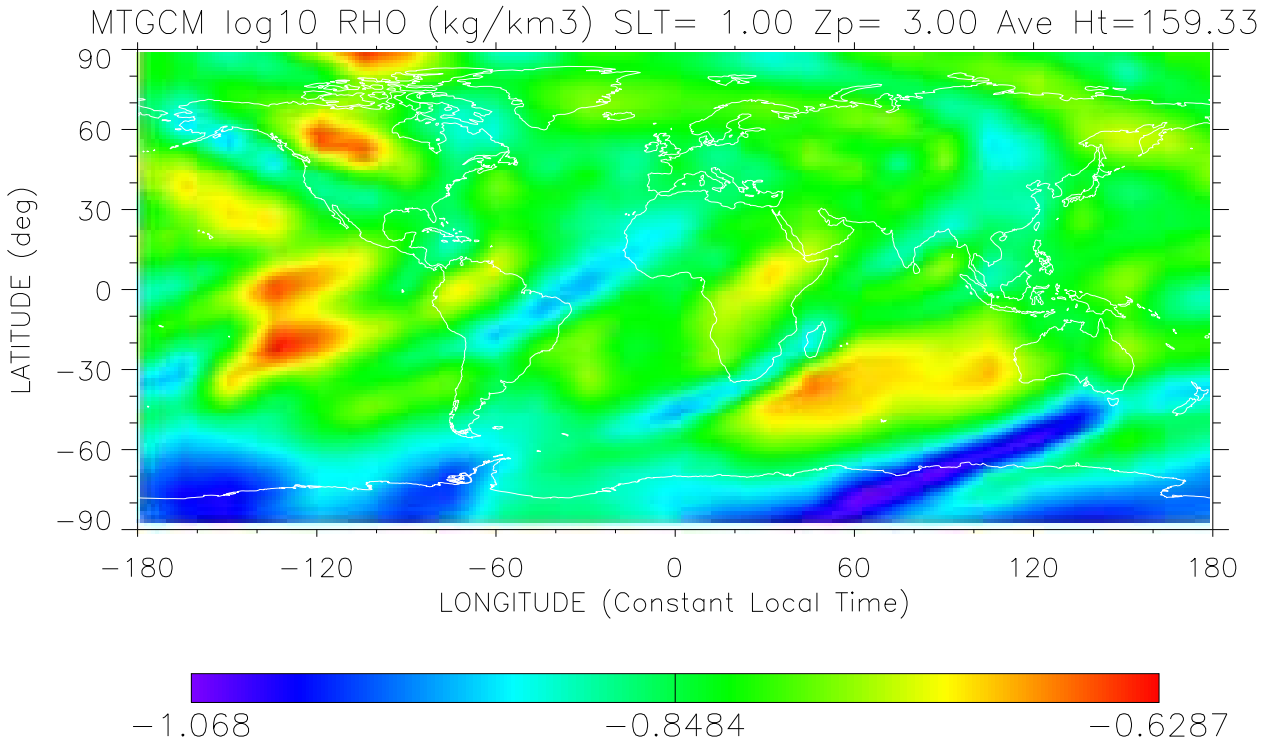

MTGCM log10 CO2 (cm3) SLT= 1.00 Zp= −2.00 Ave Ht=114.19
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
11.54
11.67
11.80

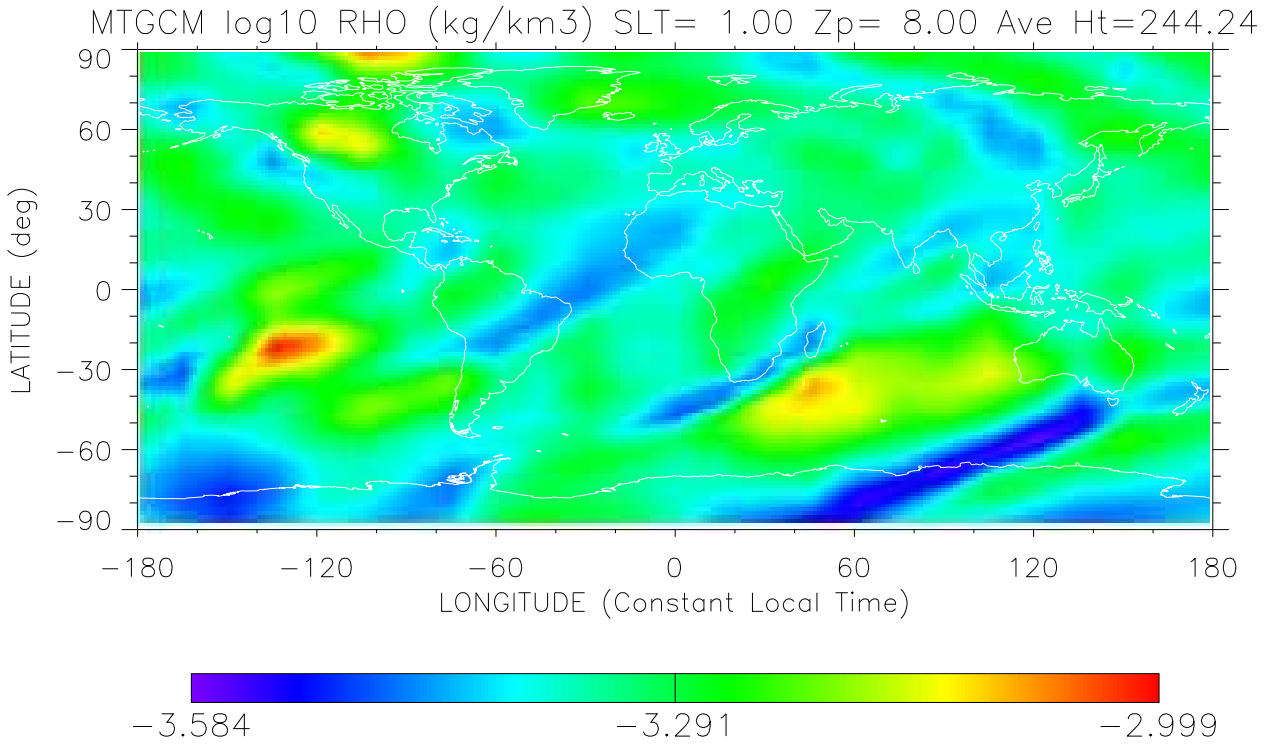

MTGCM log10 CO2 (cm3) SLT= 1.00 Zp= 3.00 Ave Ht=159.33
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
8.994
9.232
9.470

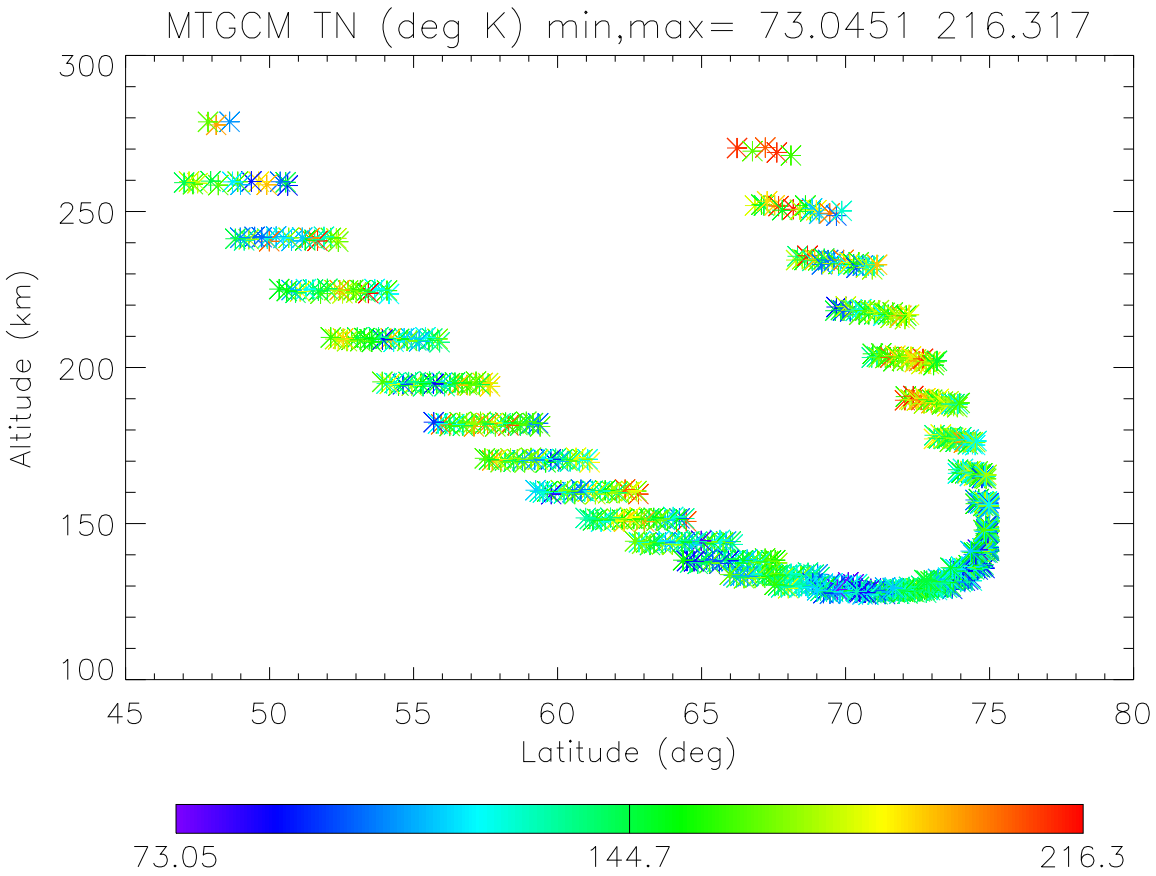

MTGCM log10 CO2 (cm3) SLT= 1.00 Zp= 8.00 Ave Ht=244.24
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.646
4.210
6.775

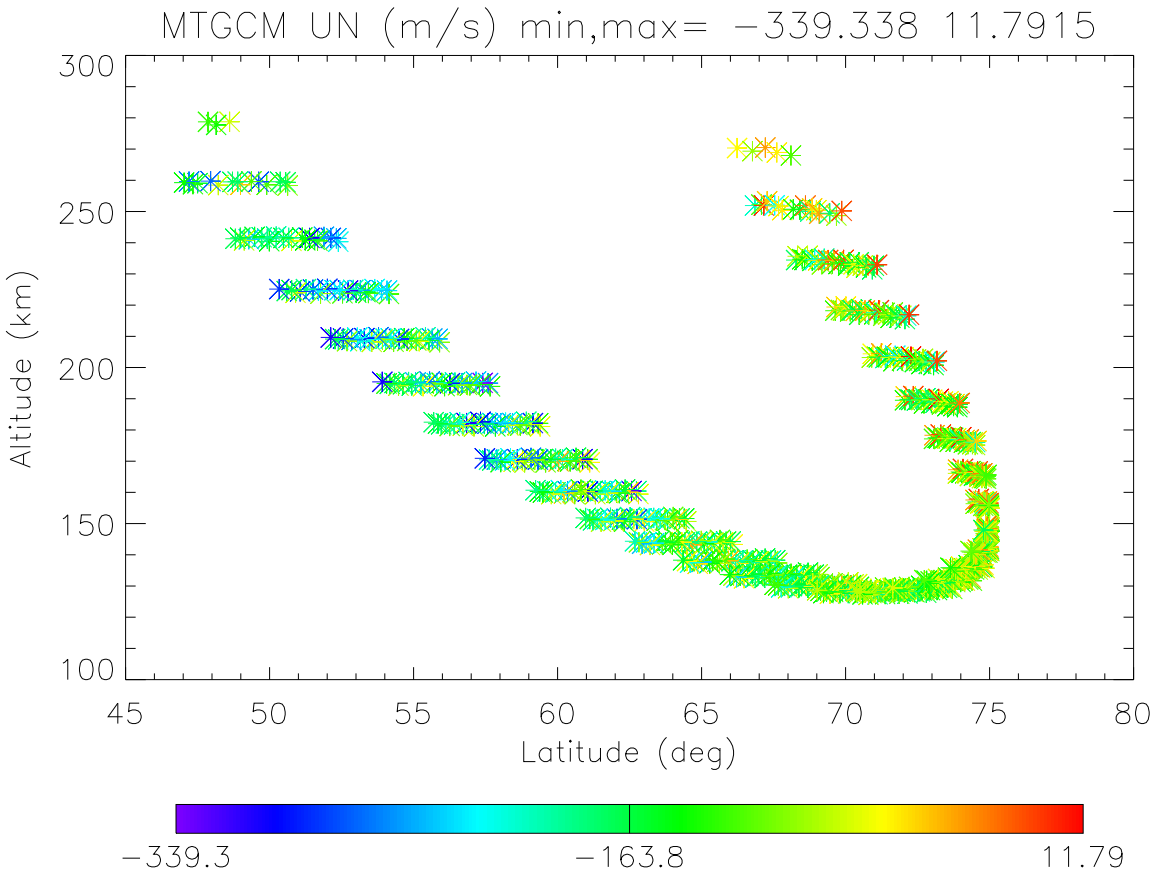

MTGCM log10 RHO (kg/km3) SLT= 1.00 Zp= −7.00 Ave Ht= 76.36
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
3.324
3.532
3.741

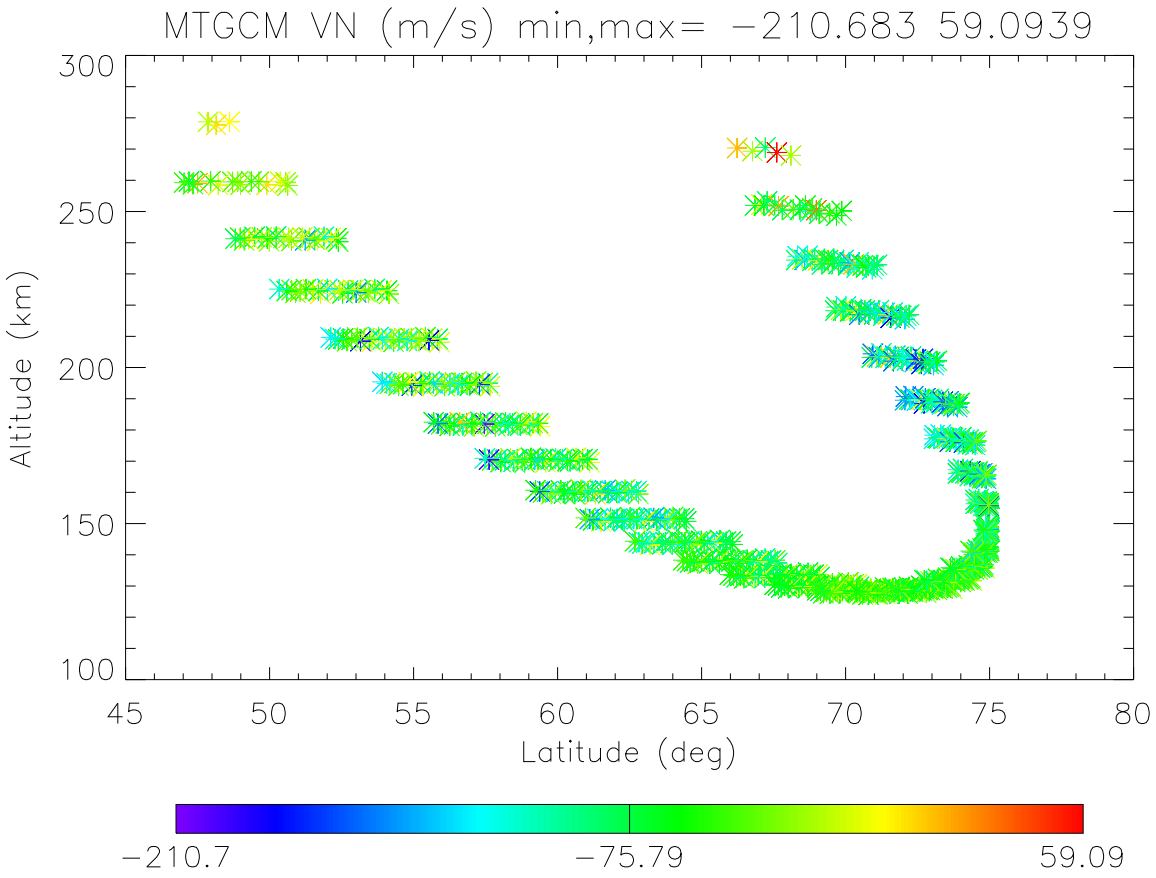

MTGCM log10 RHO (kg/km3) SLT= 1.00 Zp= −2.00 Ave Ht=114.19
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.414
1.543
1.673

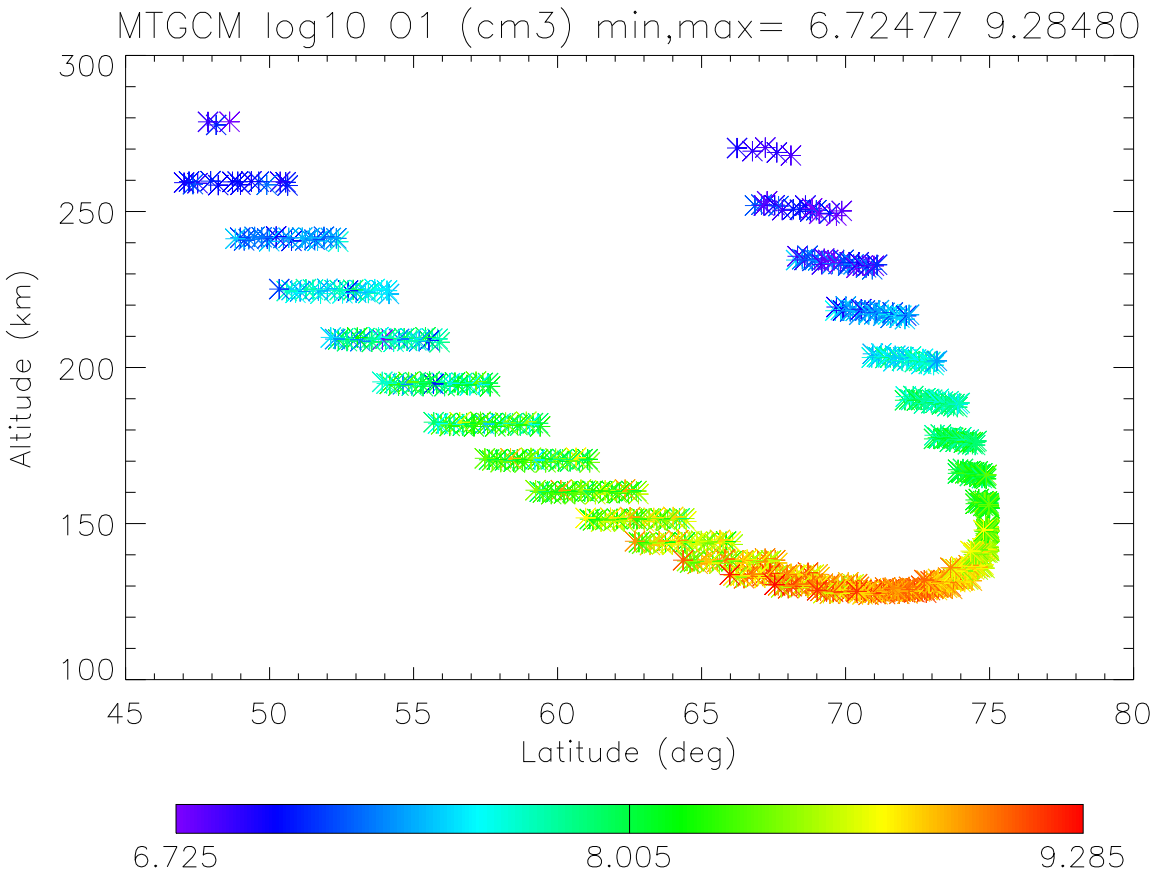

MTGCM log10 RHO (kg/km3) SLT= 1.00 Zp= 3.00 Ave Ht=159.33
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−1.068
−0.8484
−0.6287

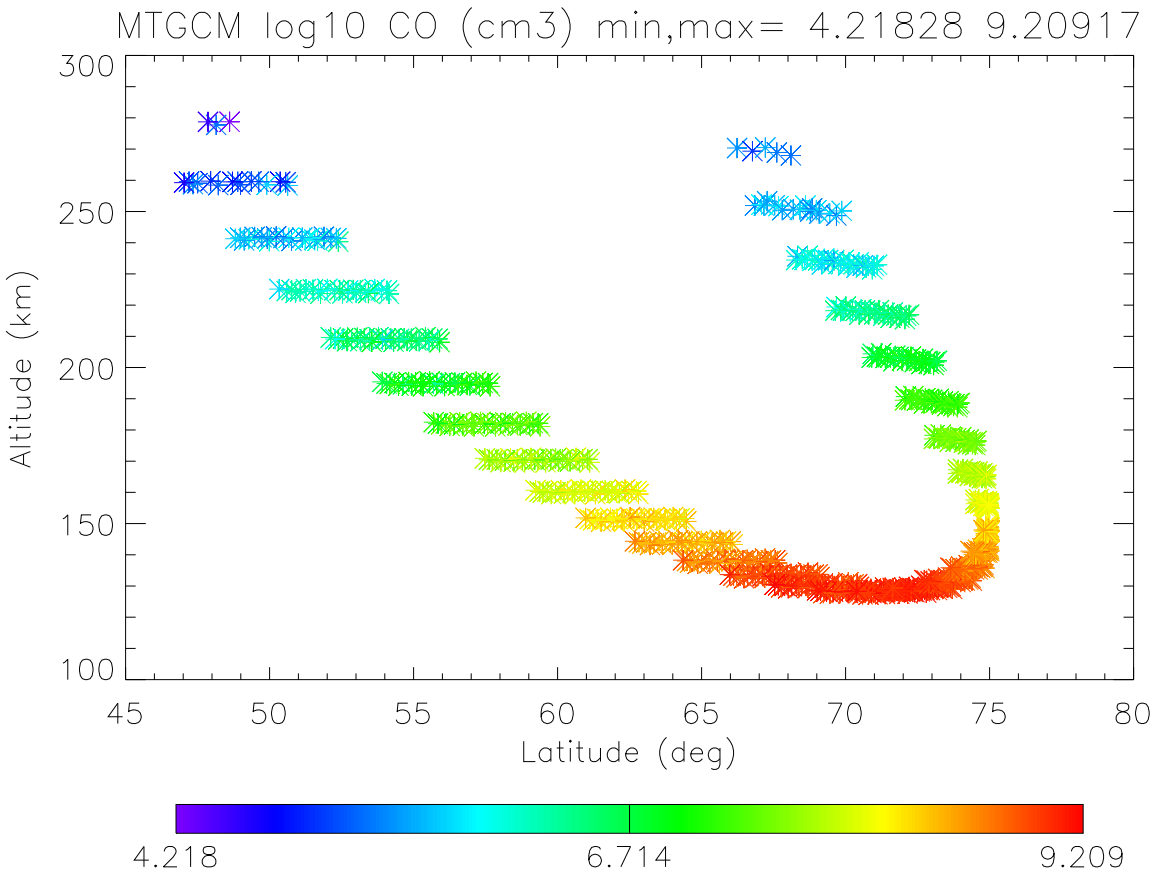

MTGCM log10 RHO (kg/km3) SLT= 1.00 Zp= 8.00 Ave Ht=244.24
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−3.584
−3.291
−2.999

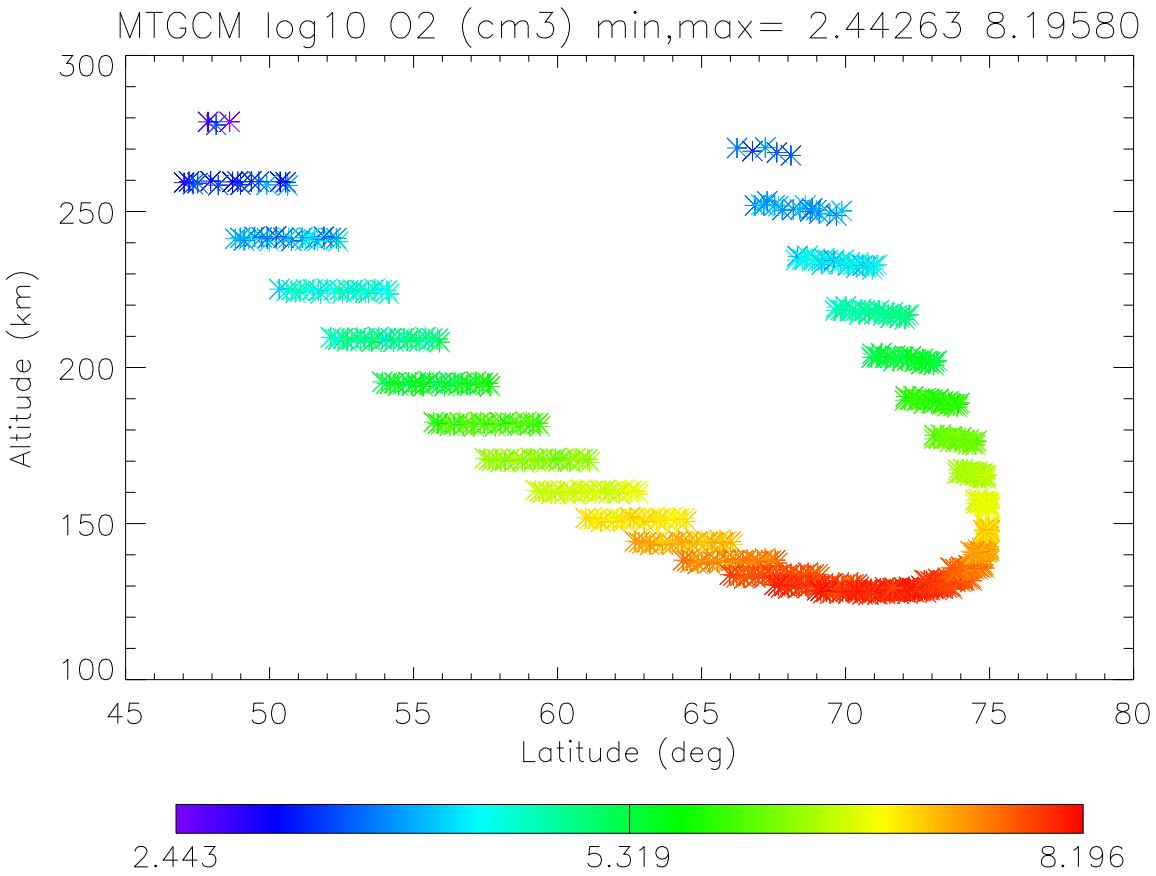

MTGCM TN (deg K) min,max= 73.0451 216.317
300
250
200
150
100
Altitude (km)
45
50
55
60
65
70
75
80
Latitude (deg)
73.05
144.7
216.3

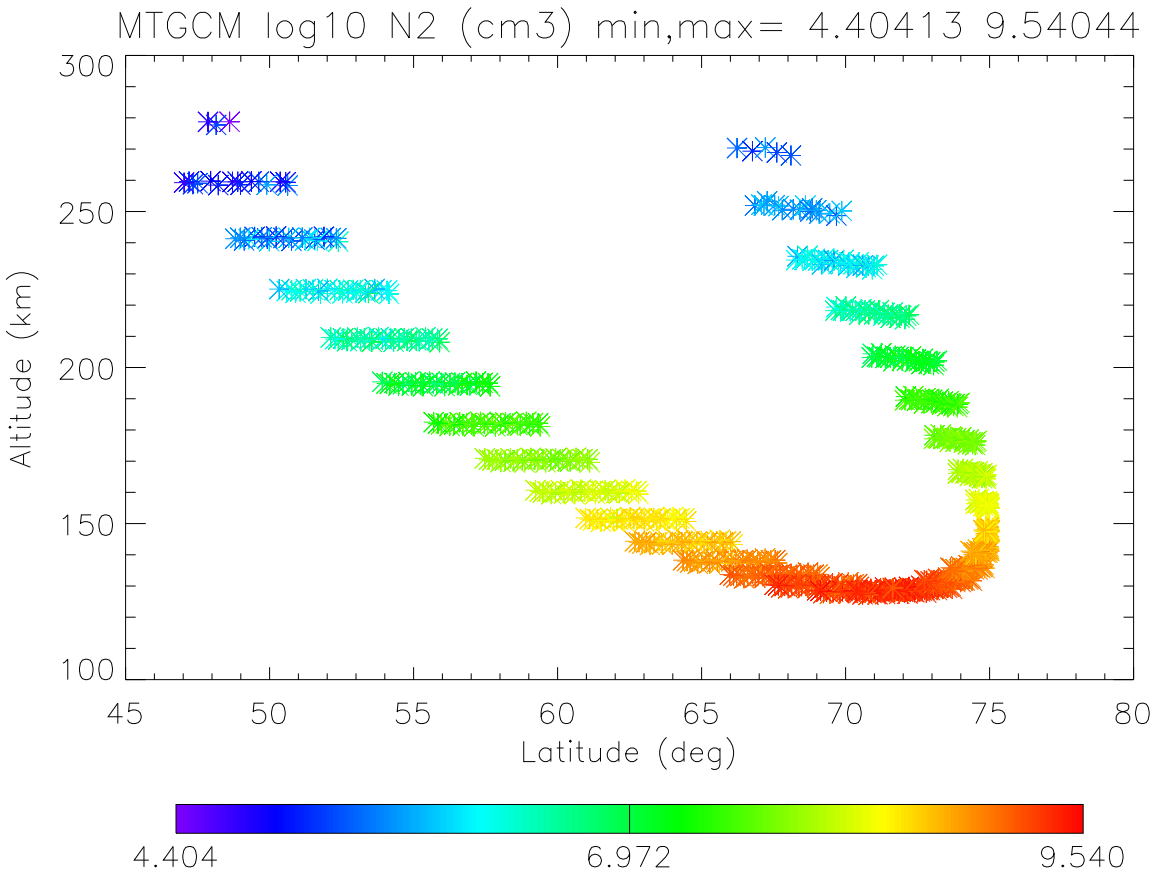

MTGCM UN (m/s) min,max= −339.338 11.7915
300
250
200
150
100
Altitude (km)
45
50
55
60
65
70
75
80
Latitude (deg)
−339.3
−163.8
11.79

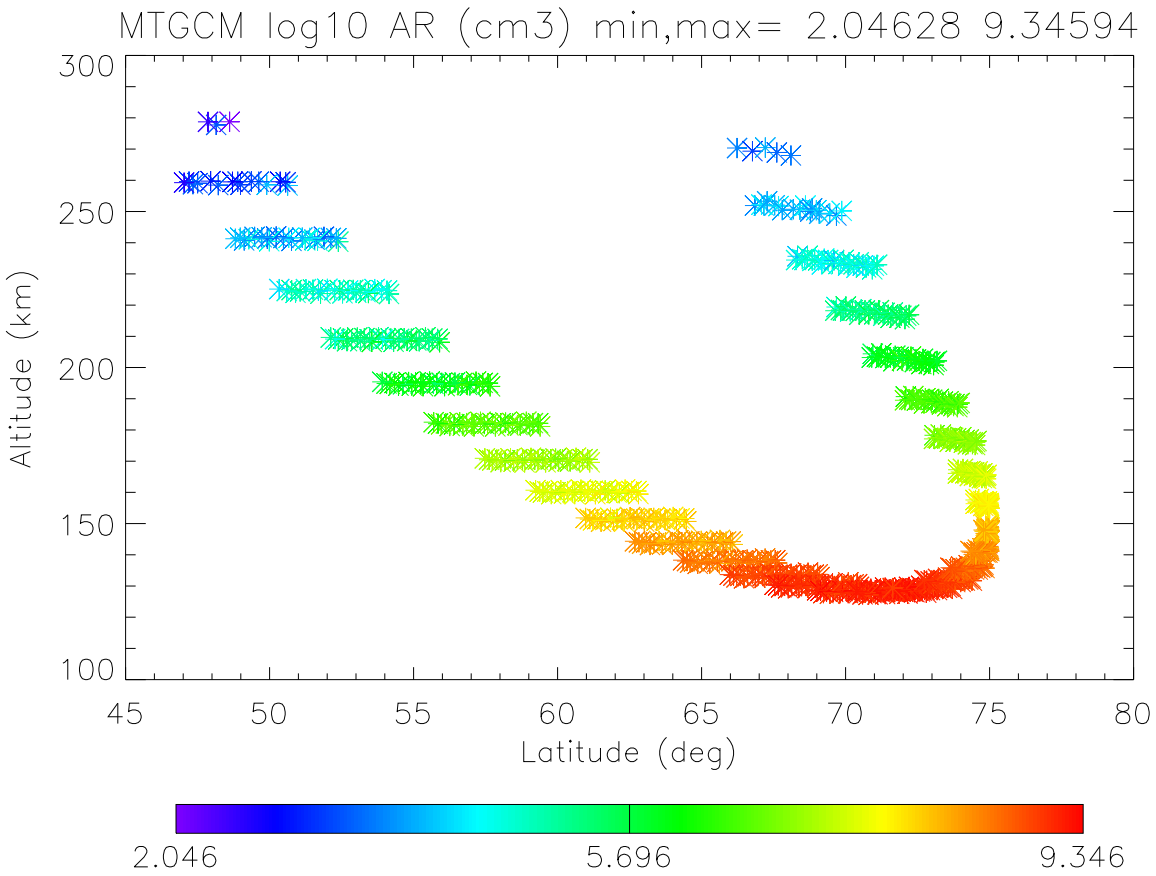

MTGCM VN (m/s) min,max= −210.683 59.0939
300
250
200
150
100
Altitude (km)
45
50
55
60
65
70
75
80
Latitude (deg)
−210.7
−75.79
59.09

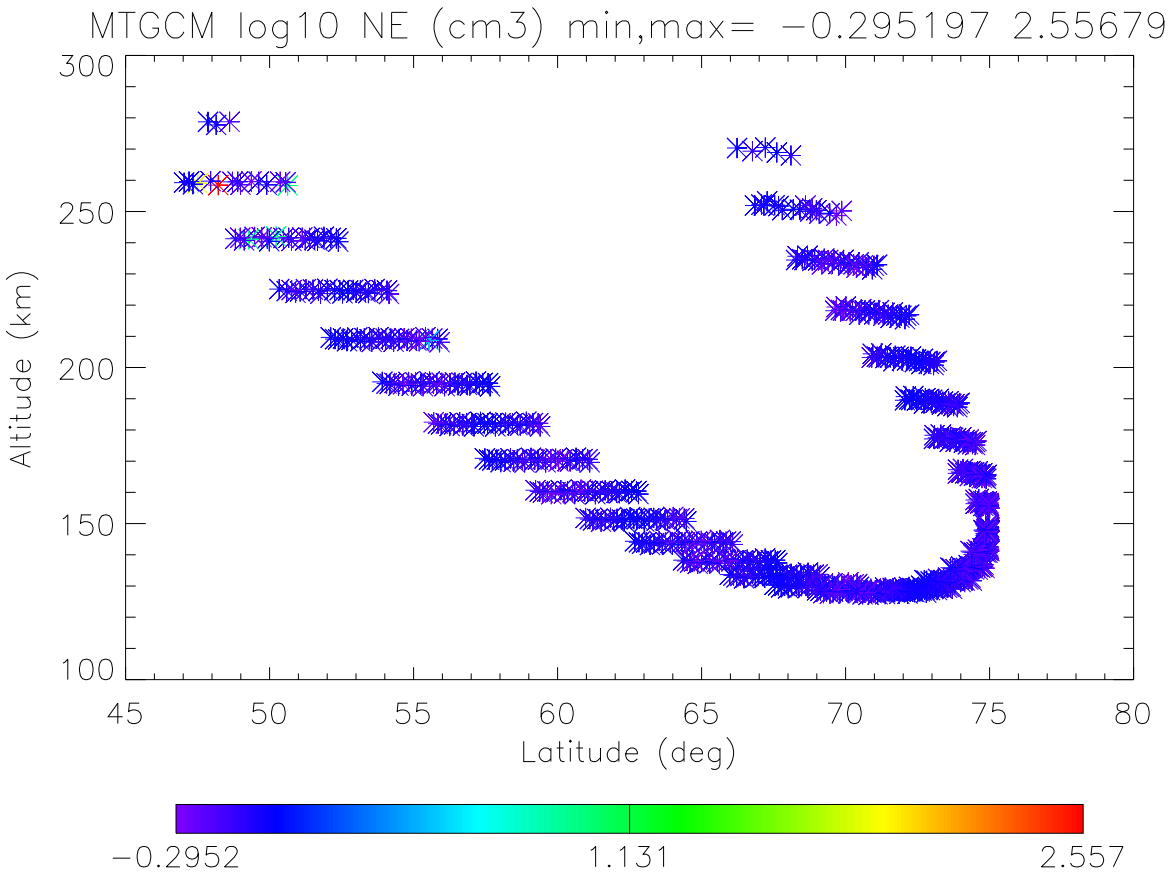

MTGCM log10 O1 (cm3) min,max= 6.72477 9.28480
Altitude (km)
300
250
200
150
100
45
50
55
60
65
70
75
80
Latitude (deg)
6.725
8.005
9.285

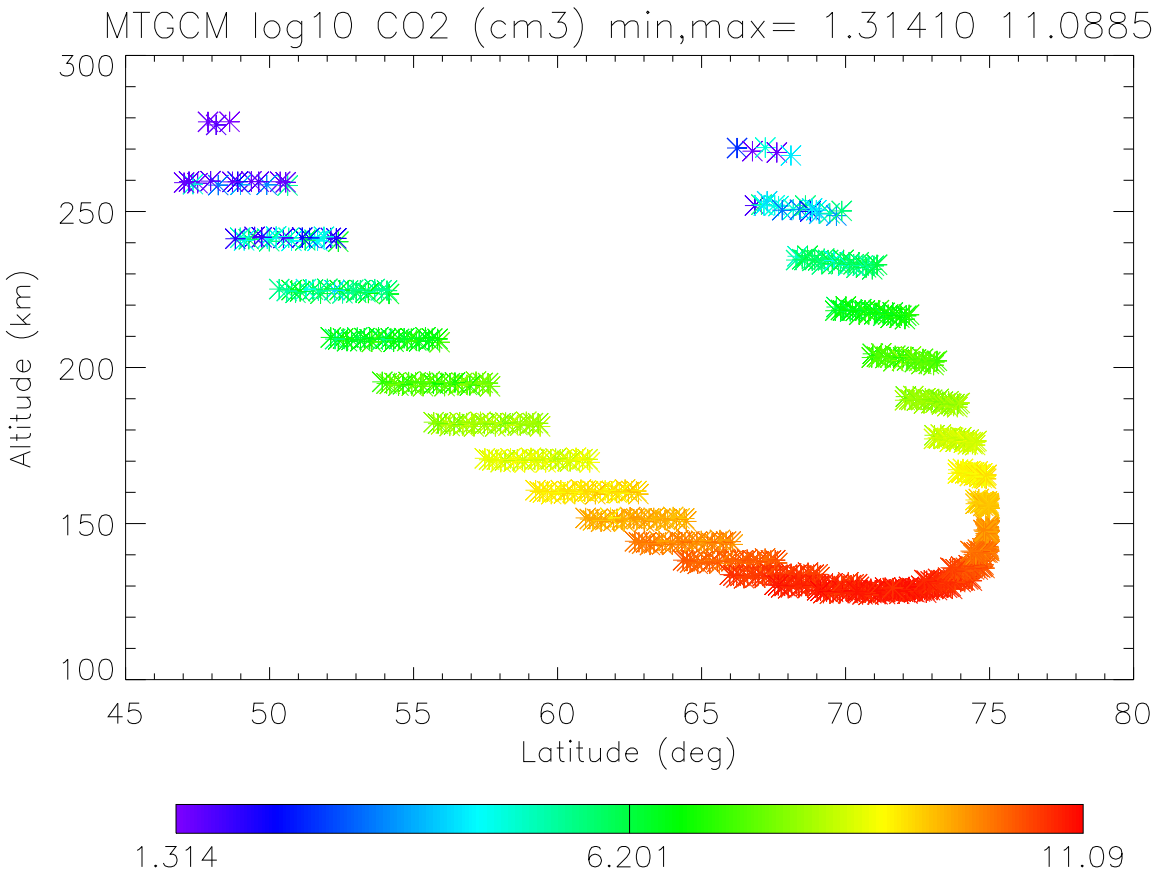

MTGCM log10 CO (cm3) min,max= 4.21828 9.20917
300
250
200
150
100
Altitude (km)
45
50
55
60
65
70
75
80
Latitude (deg)
4.218
6.714
9.209

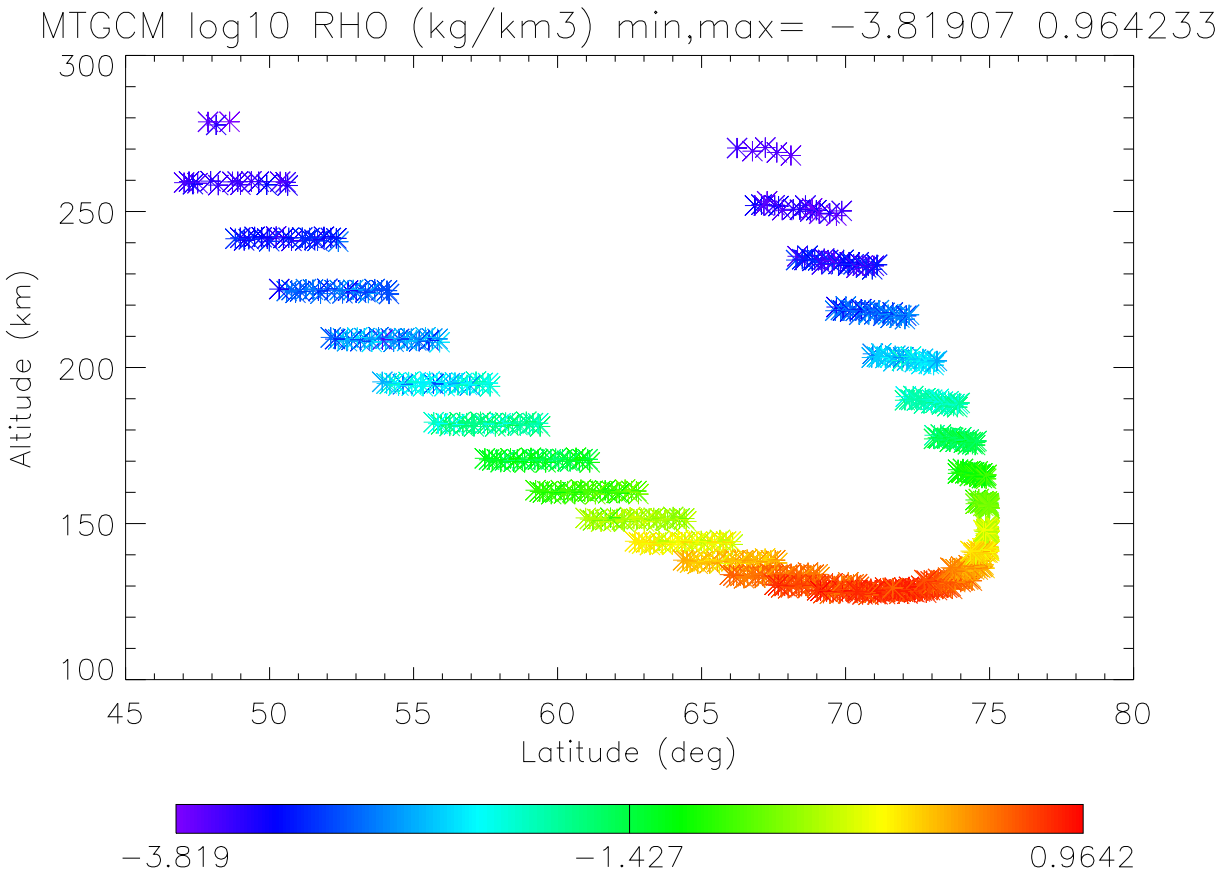

MTGCM log10 O2 (cm3) min,max= 2.44263 8.19580
Altitude (km)
300
250
200
150
100
45
50
55
60
65
70
75
80
Latitude (deg)
2.443
5.319
8.196


MTGCM log10 N2 (cm3) min,max= 4.40413 9.54044
Altitude (km)
300
250
200
150
100
45
50
55
60
65
70
75
80
Latitude (deg)
4.404
6.972
9.540


MTGCM log10 AR (cm3) min,max= 2.04628 9.34594
Altitude (km)
300
250
200
150
100
45
50
55
60
65
70
75
80
Latitude (deg)
2.046
5.696
9.346


MTGCM log10 NE (cm3) min,max= −0.295197 2.55679
300
250
200
150
100
Altitude (km)
45
50
55
60
65
70
75
80
Latitude (deg)
−0.2952
1.131
2.557


MTGCM log10 CO2 (cm3) min,max= 1.31410 11.0885
300
250
200
150
100
Altitude (km)
45
50
55
60
65
70
75
80
Latitude (deg)
1.314
6.201
11.09


MTGCM log10 RHO (kg/km3) min,max= −3.81907 0.964233
Altitude (km)
300
250
200
150
100
45
50
55
60
65
70
75
80
Latitude (deg)
−3.819
−1.427
0.9642