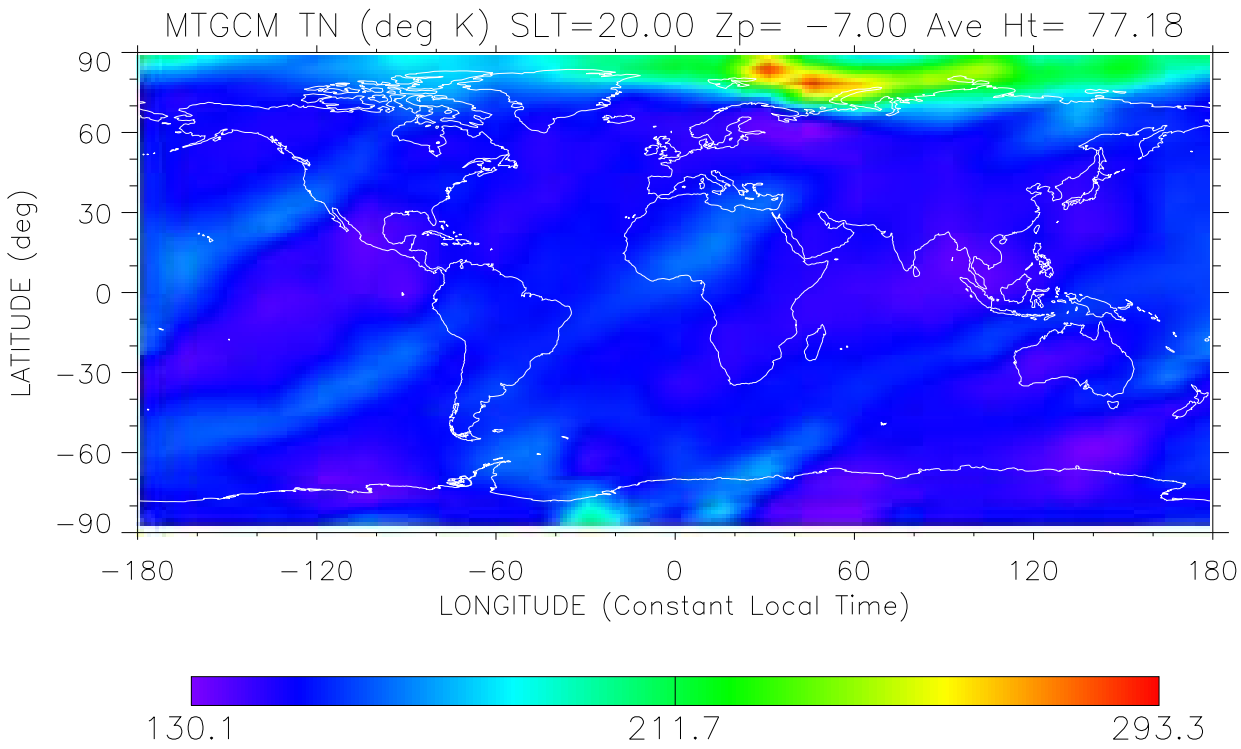
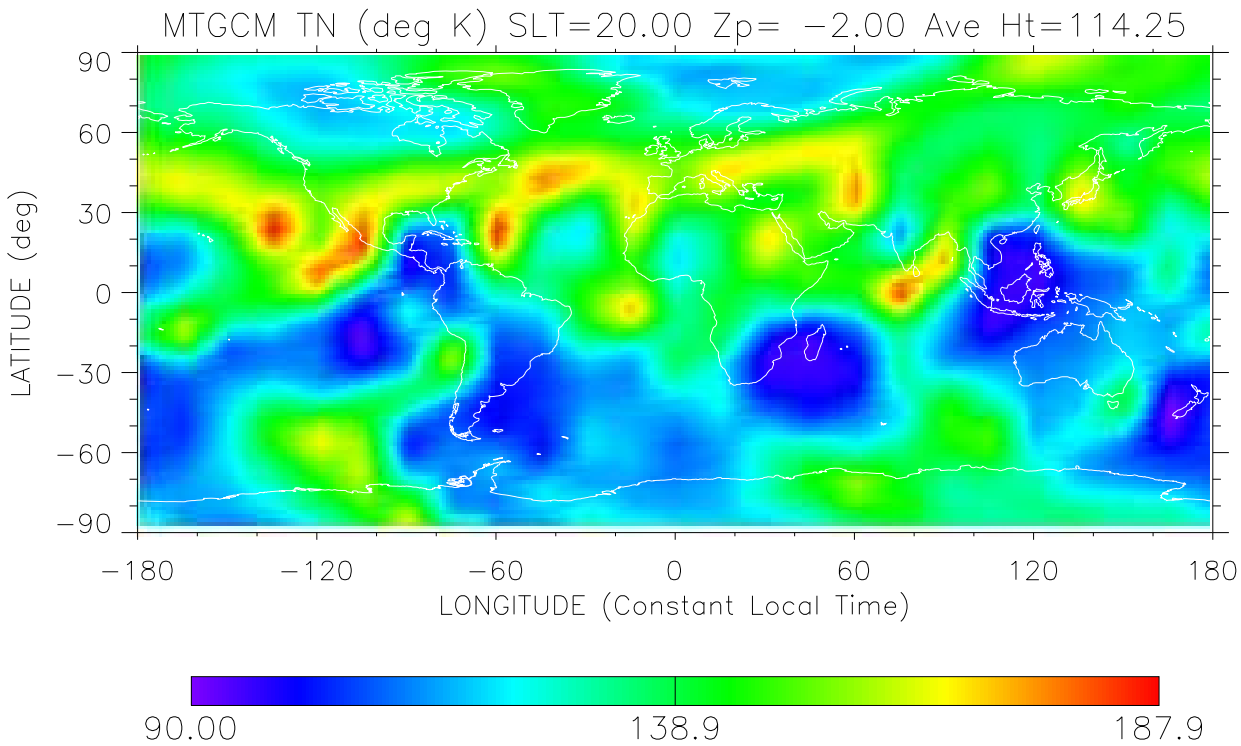
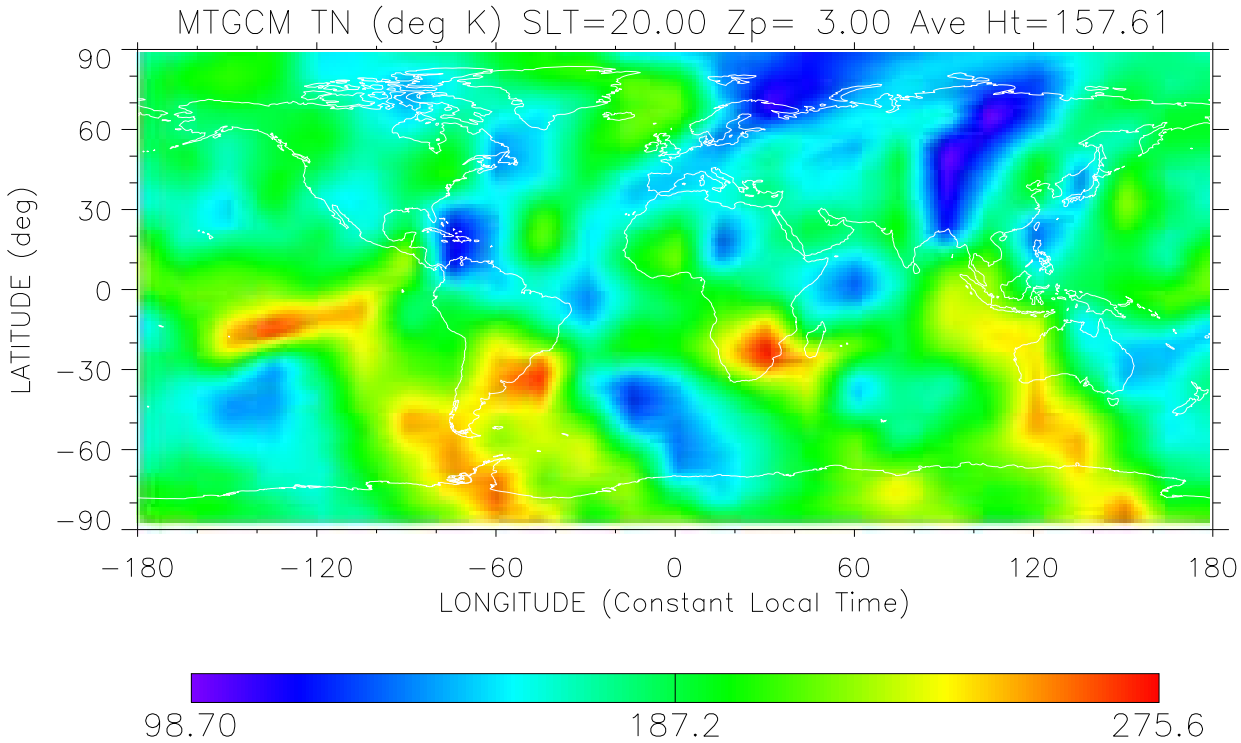
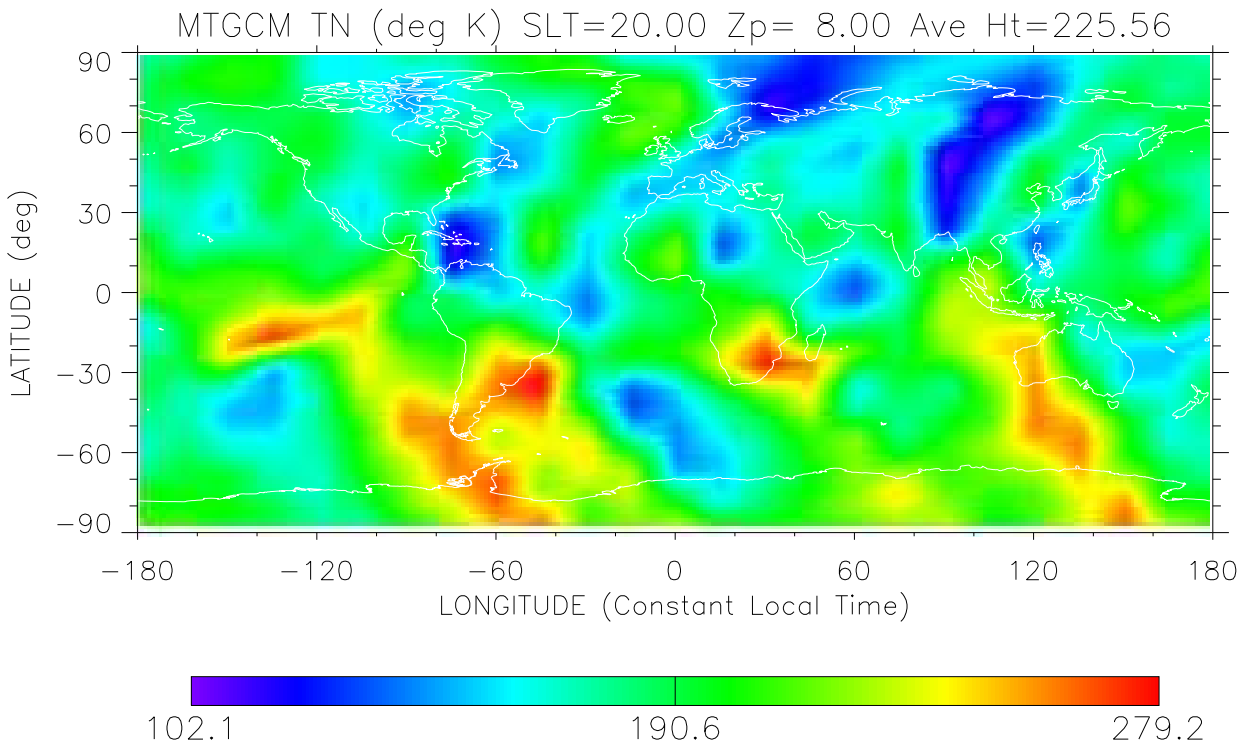
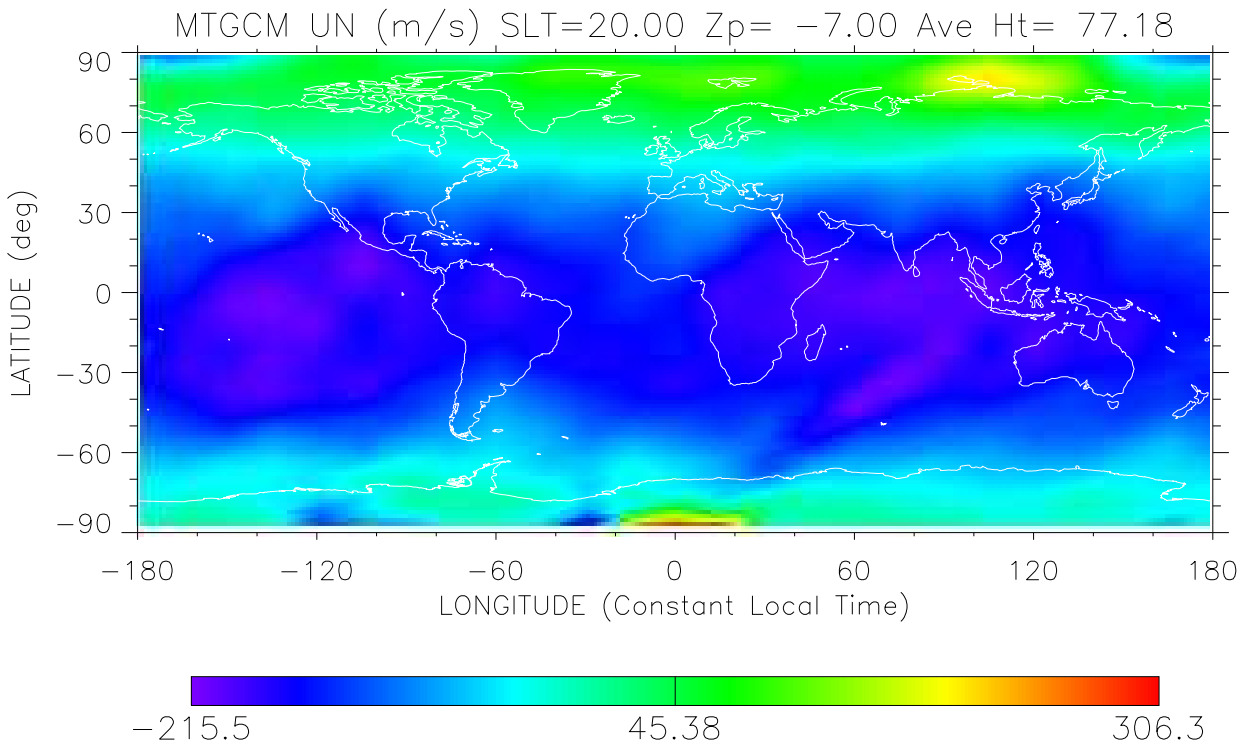
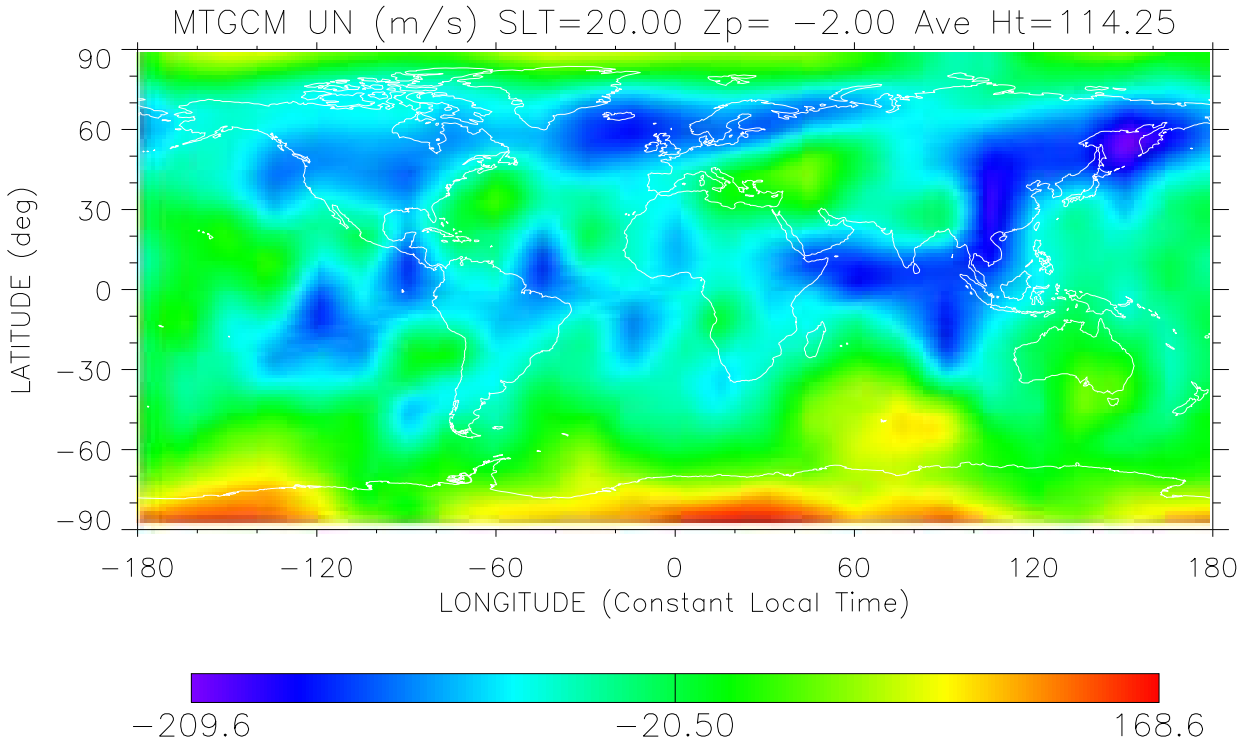

MTGCM TN (deg K) SLT=20.00 Zp= −7.00 Ave Ht= 77.18
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
130.1
211.7
293.3

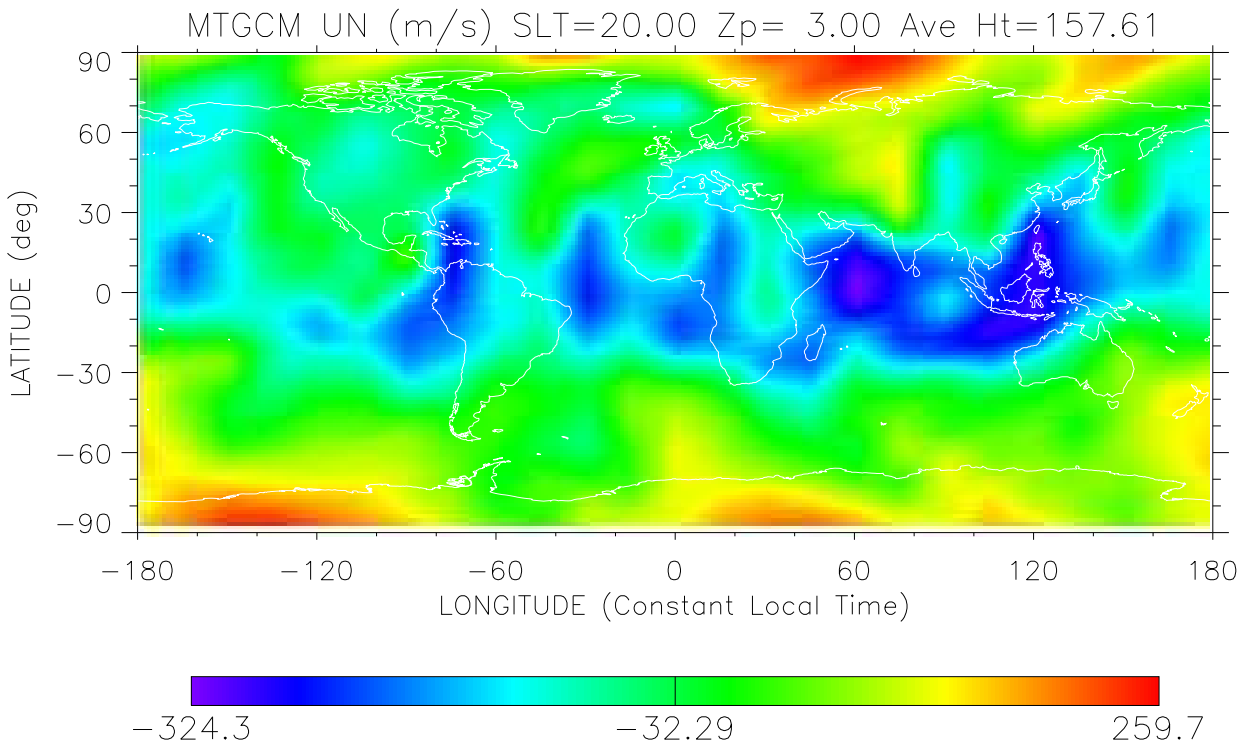

MTGCM TN (deg K) SLT=20.00 Zp= −2.00 Ave Ht=114.25
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
90.00
138.9
187.9

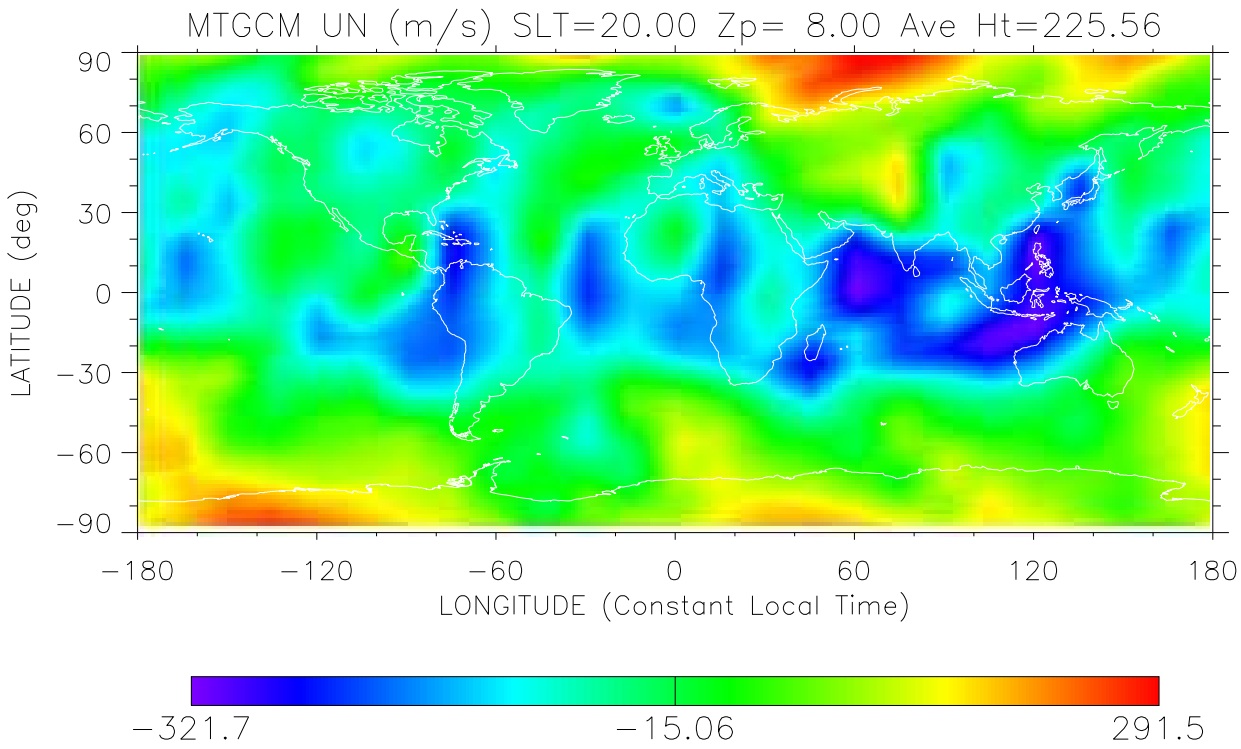

MTGCM TN (deg K) SLT=20.00 Zp= 3.00 Ave Ht=157.61
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
98.70
187.2
275.6

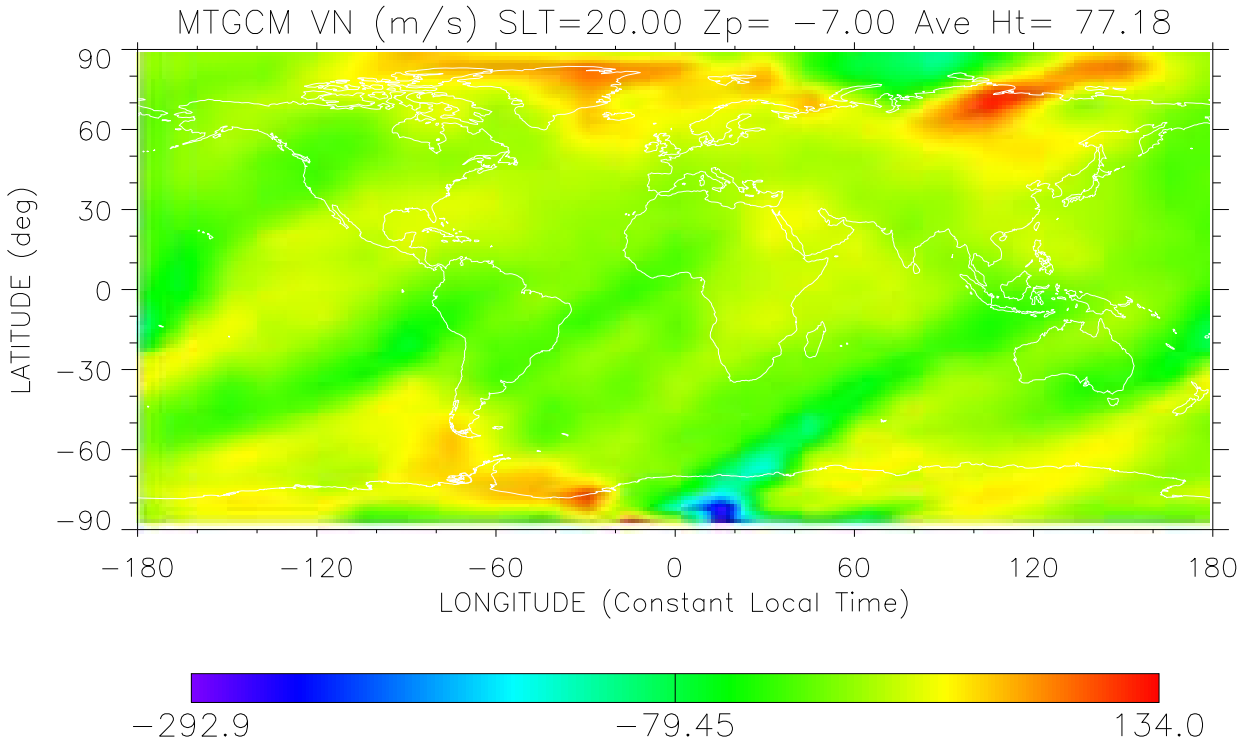

MTGCM TN (deg K) SLT=20.00 Zp= 8.00 Ave Ht=225.56
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
102.1
190.6
279.2

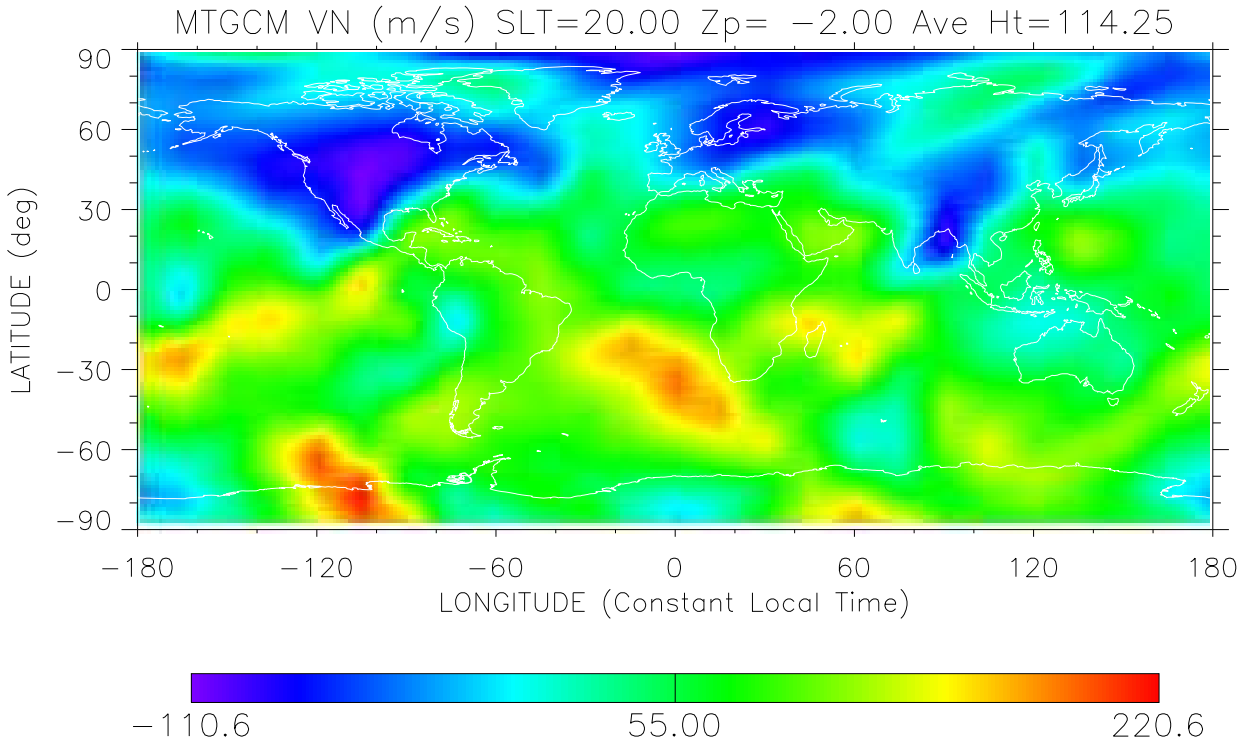

MTGCM UN (m/s) SLT=20.00 Zp= −7.00 Ave Ht= 77.18
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−215.5
45.38
306.3

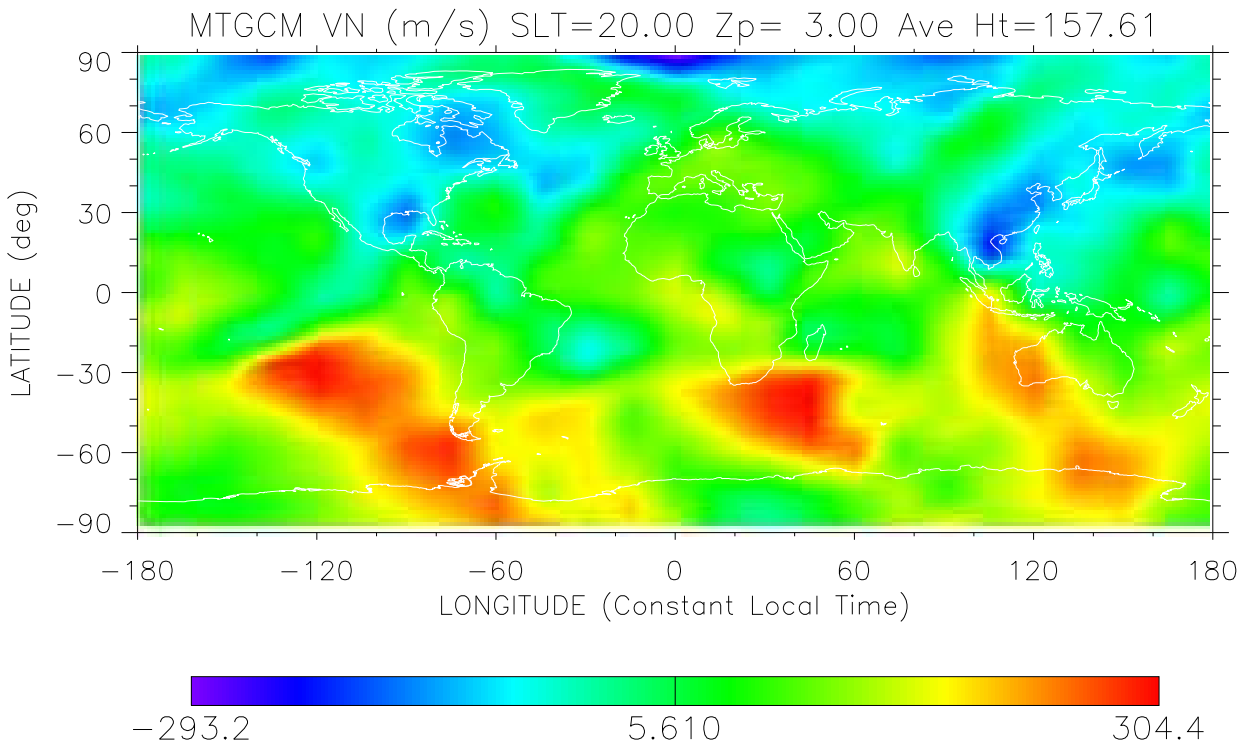

MTGCM UN (m/s) SLT=20.00 Zp= −2.00 Ave Ht=114.25
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−209.6
−20.50
168.6

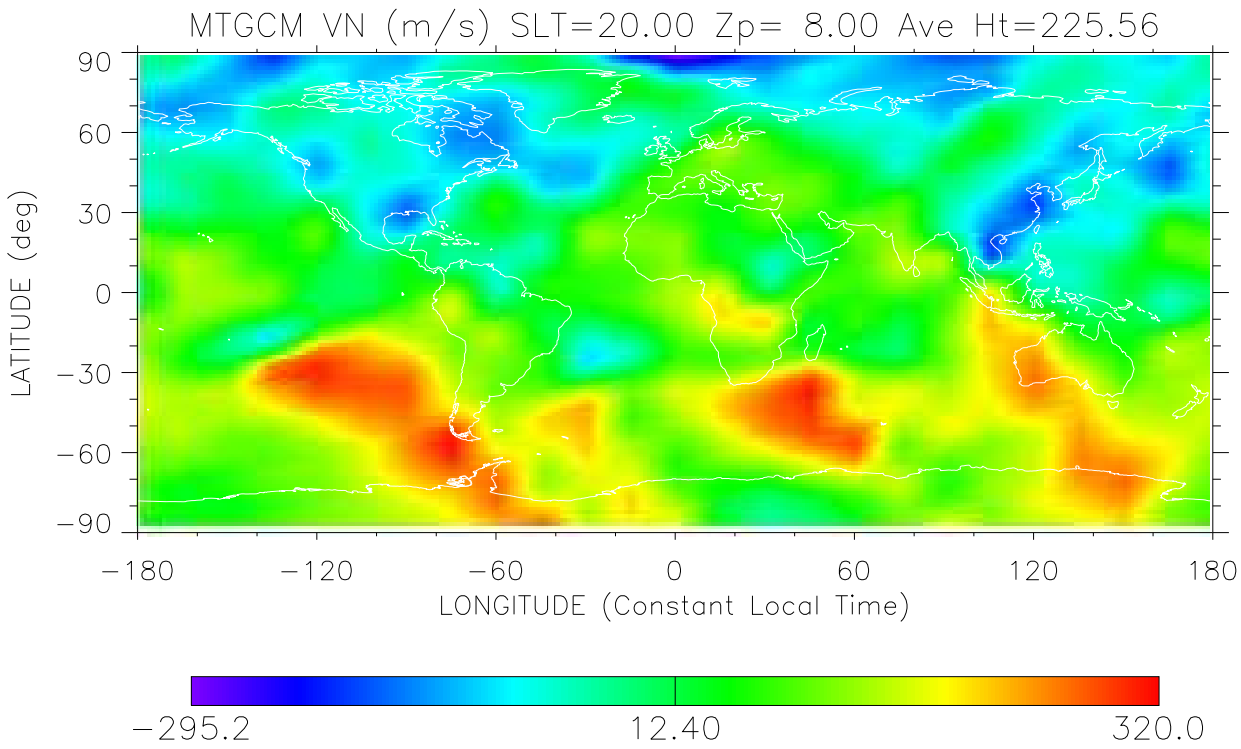

MTGCM UN (m/s) SLT=20.00 Zp= 3.00 Ave Ht=157.61
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−324.3
−32.29
259.7

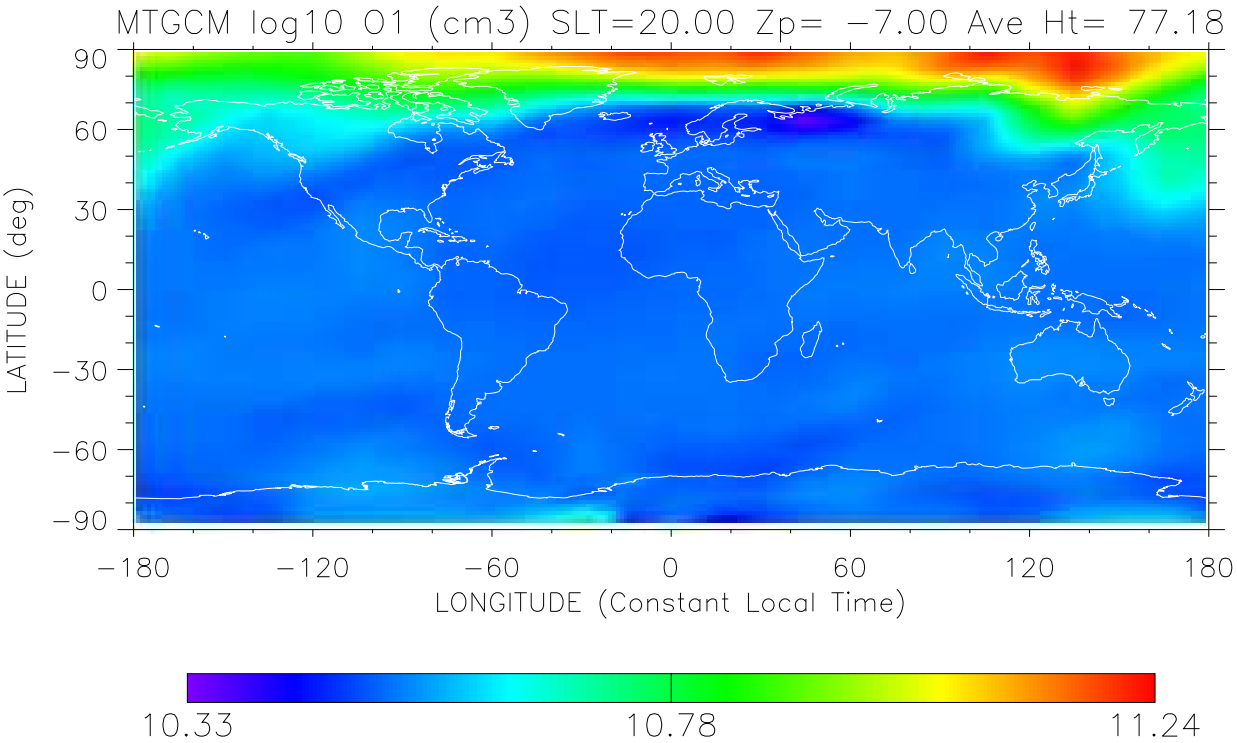

MTGCM UN (m/s) SLT=20.00 Zp= 8.00 Ave Ht=225.56
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−321.7
−15.06
291.5

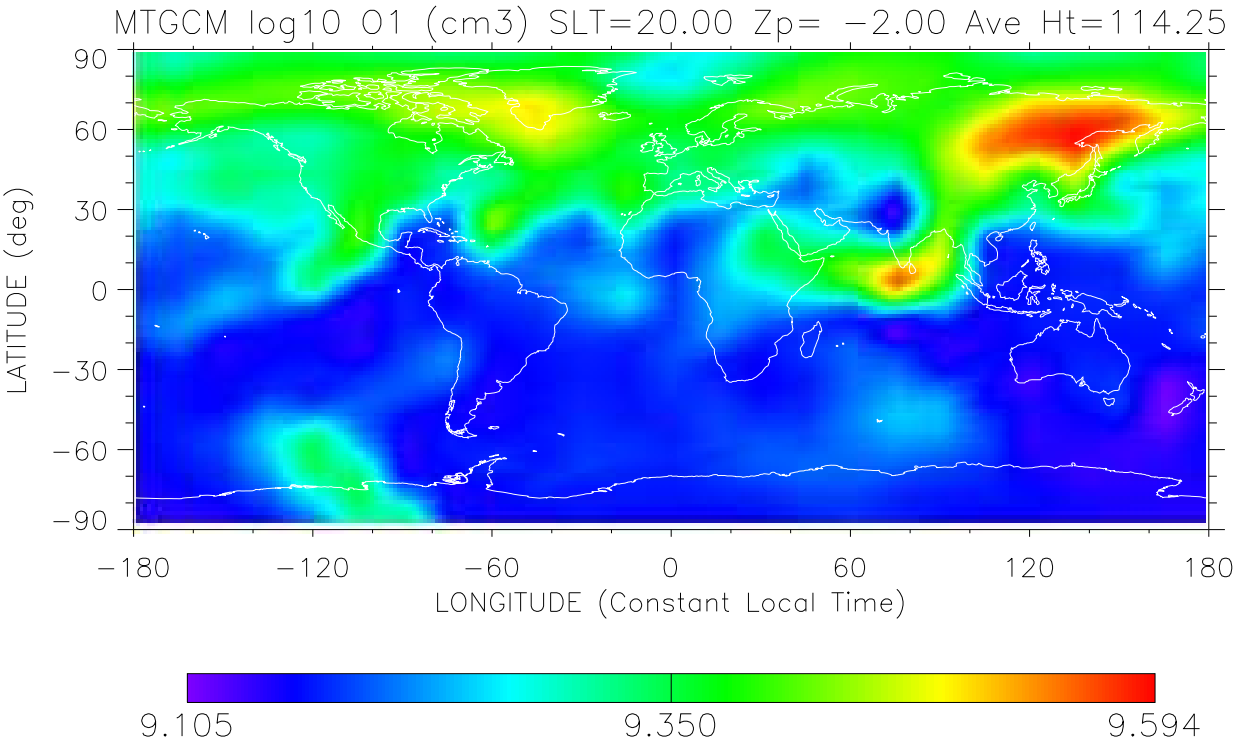

MTGCM VN (m/s) SLT=20.00 Zp= −7.00 Ave Ht= 77.18
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−292.9
−79.45
134.0

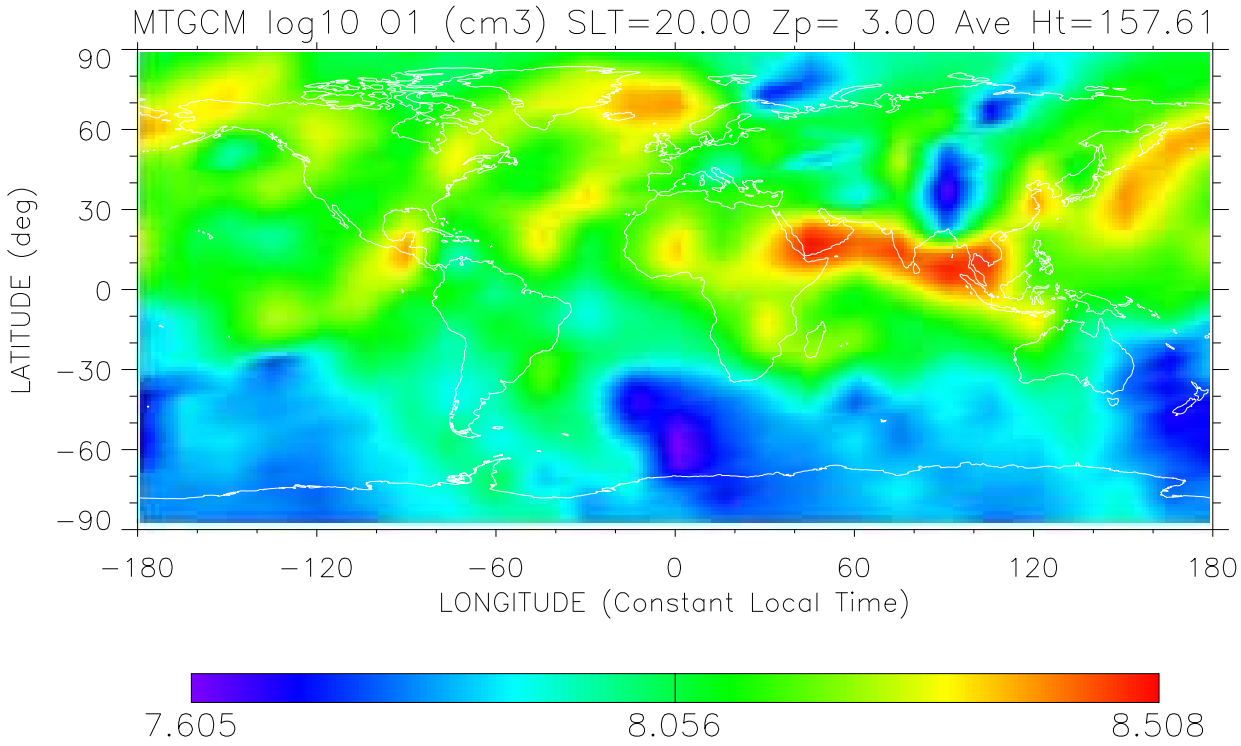

MTGCM VN (m/s) SLT=20.00 Zp= −2.00 Ave Ht=114.25
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−110.6
55.00
220.6

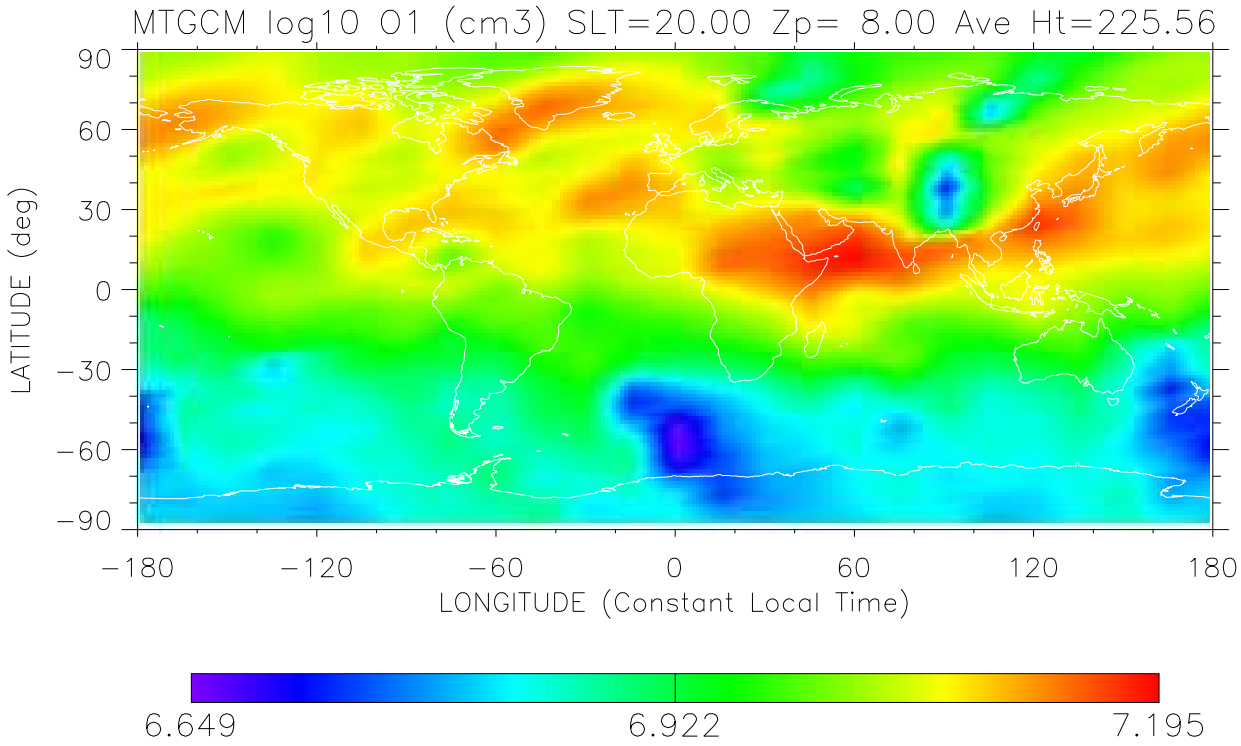

MTGCM VN (m/s) SLT=20.00 Zp= 3.00 Ave Ht=157.61
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−293.2
5.610
304.4

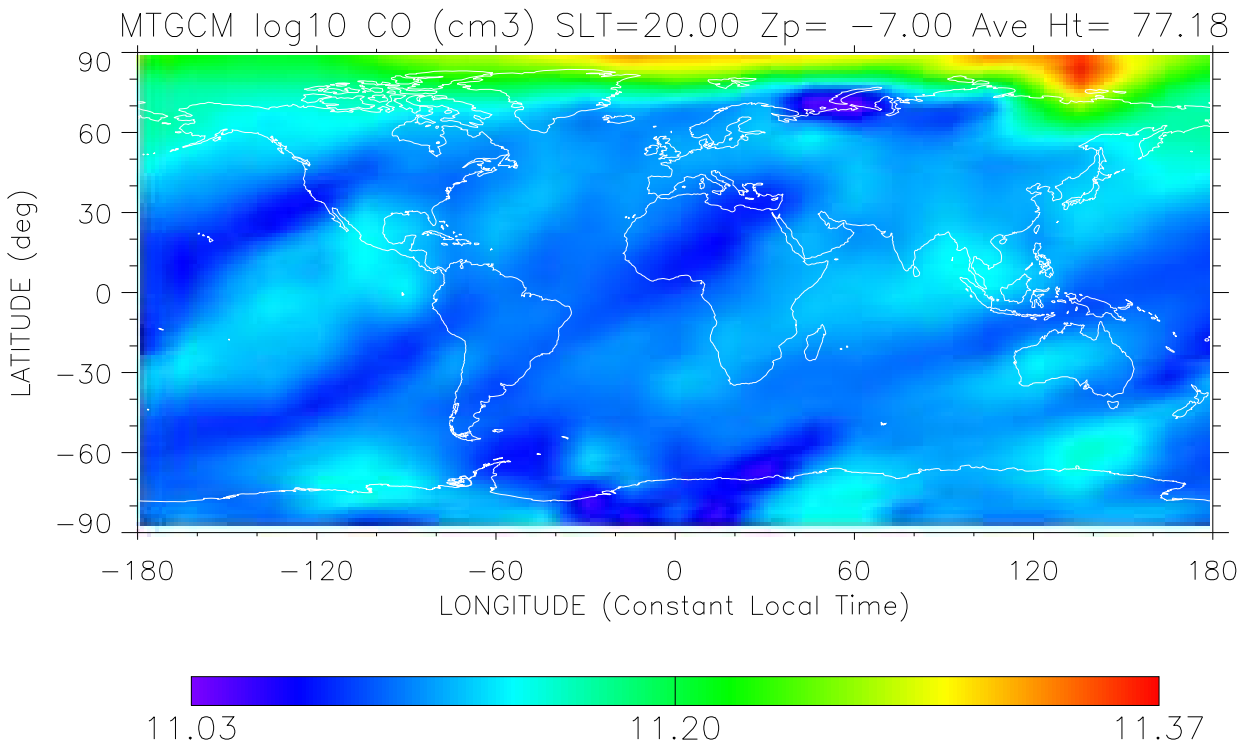

MTGCM VN (m/s) SLT=20.00 Zp= 8.00 Ave Ht=225.56
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−295.2
12.40
320.0

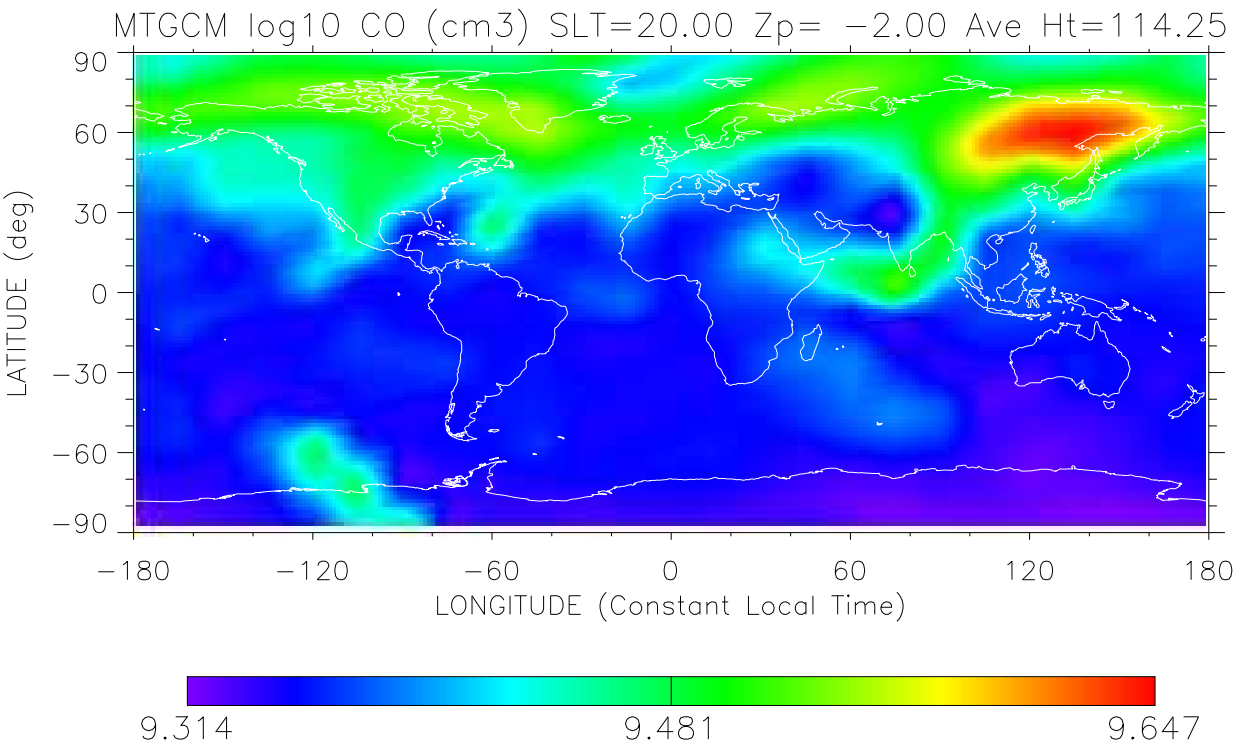

MTGCM log10 O1 (cm3) SLT=20.00 Zp= −7.00 Ave Ht= 77.18
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
10.33
10.78
11.24

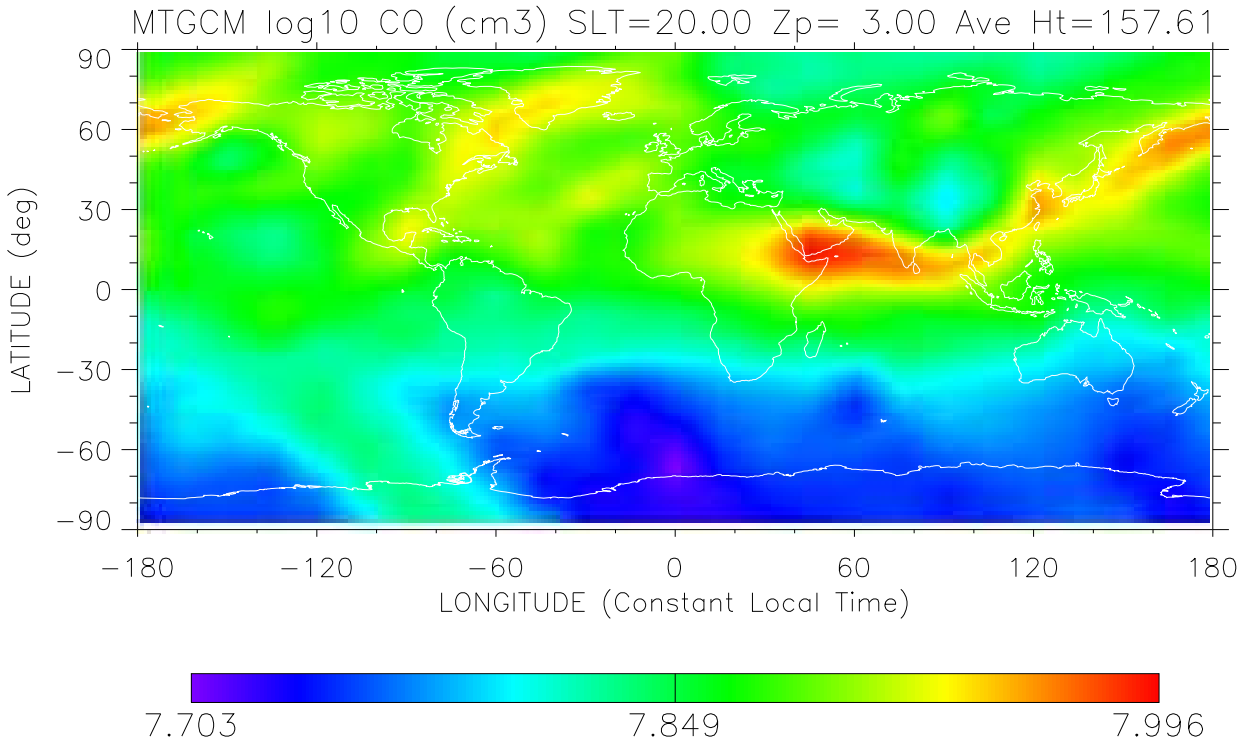

MTGCM log10 O1 (cm3) SLT=20.00 Zp= −2.00 Ave Ht=114.25
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
9.105
9.350
9.594

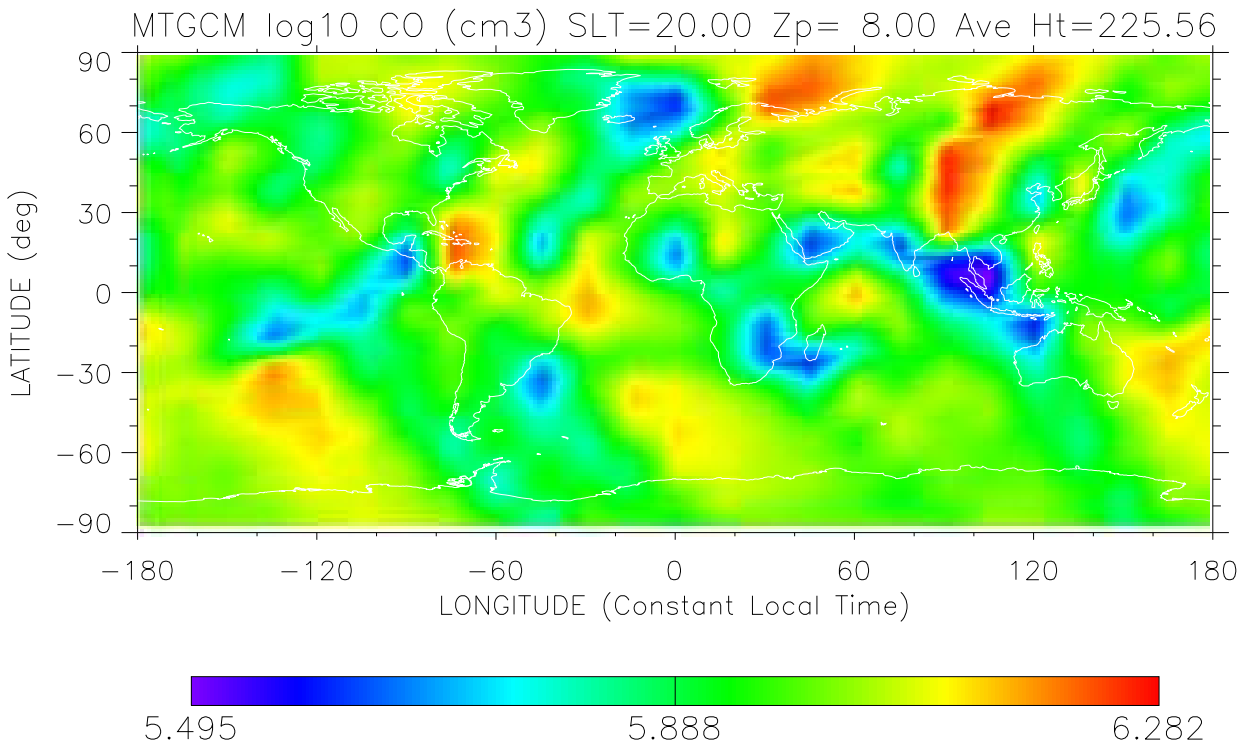

MTGCM log10 O1 (cm3) SLT=20.00 Zp= 3.00 Ave Ht=157.61
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
7.605
8.056
8.508

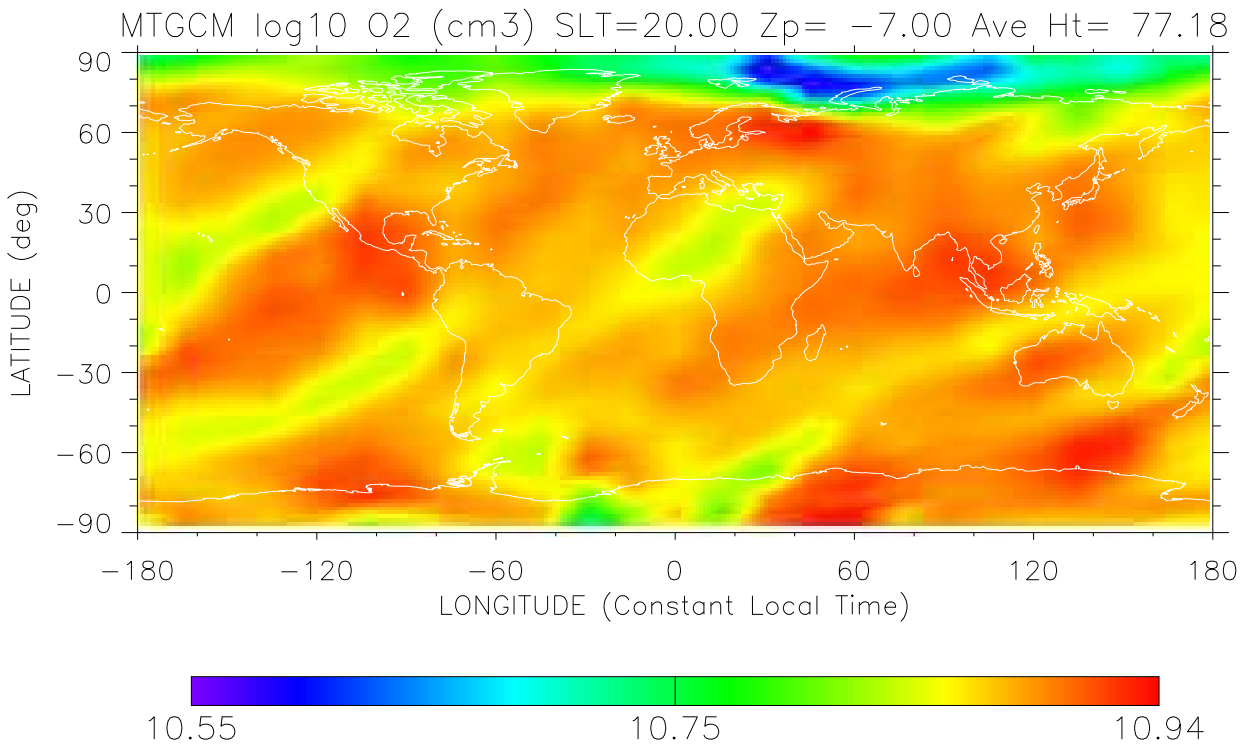

MTGCM log10 O1 (cm3) SLT=20.00 Zp= 8.00 Ave Ht=225.56
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
6.649
6.922
7.195

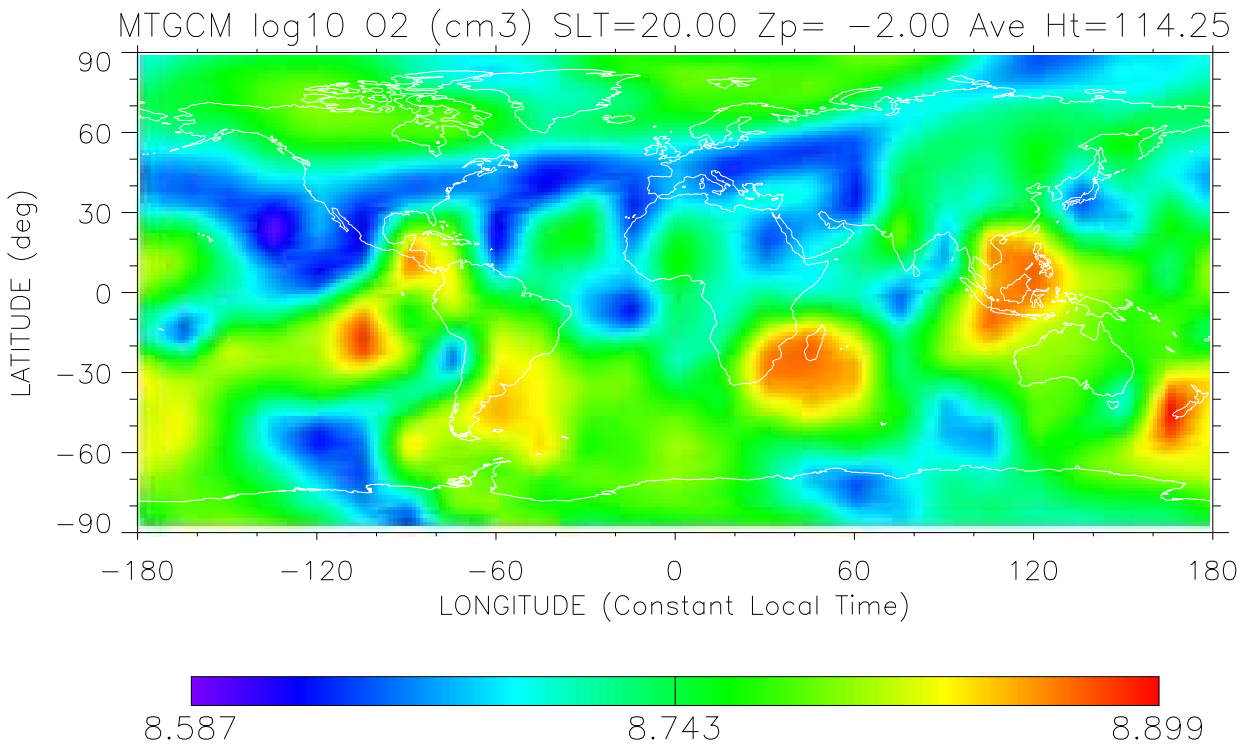

MTGCM log10 CO (cm3) SLT=20.00 Zp= −7.00 Ave Ht= 77.18
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
11.03
11.20
11.37

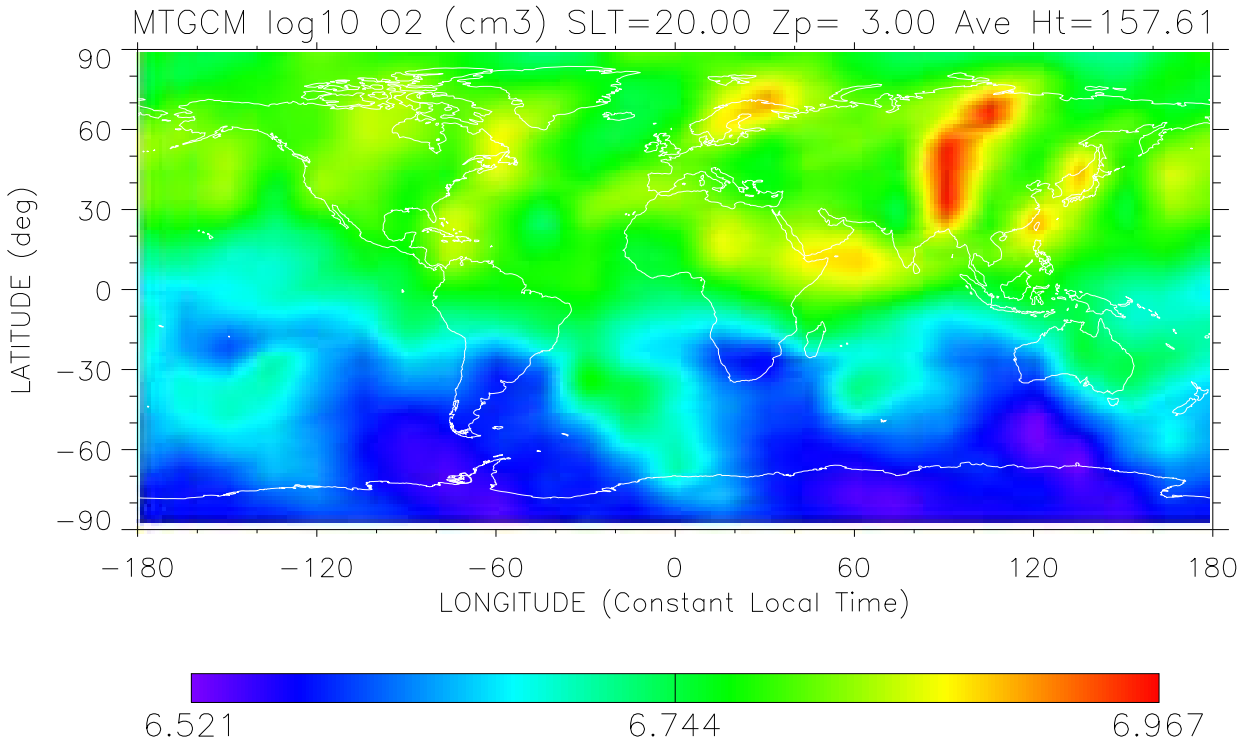

MTGCM log10 CO (cm3) SLT=20.00 Zp= −2.00 Ave Ht=114.25
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
9.314
9.481
9.647

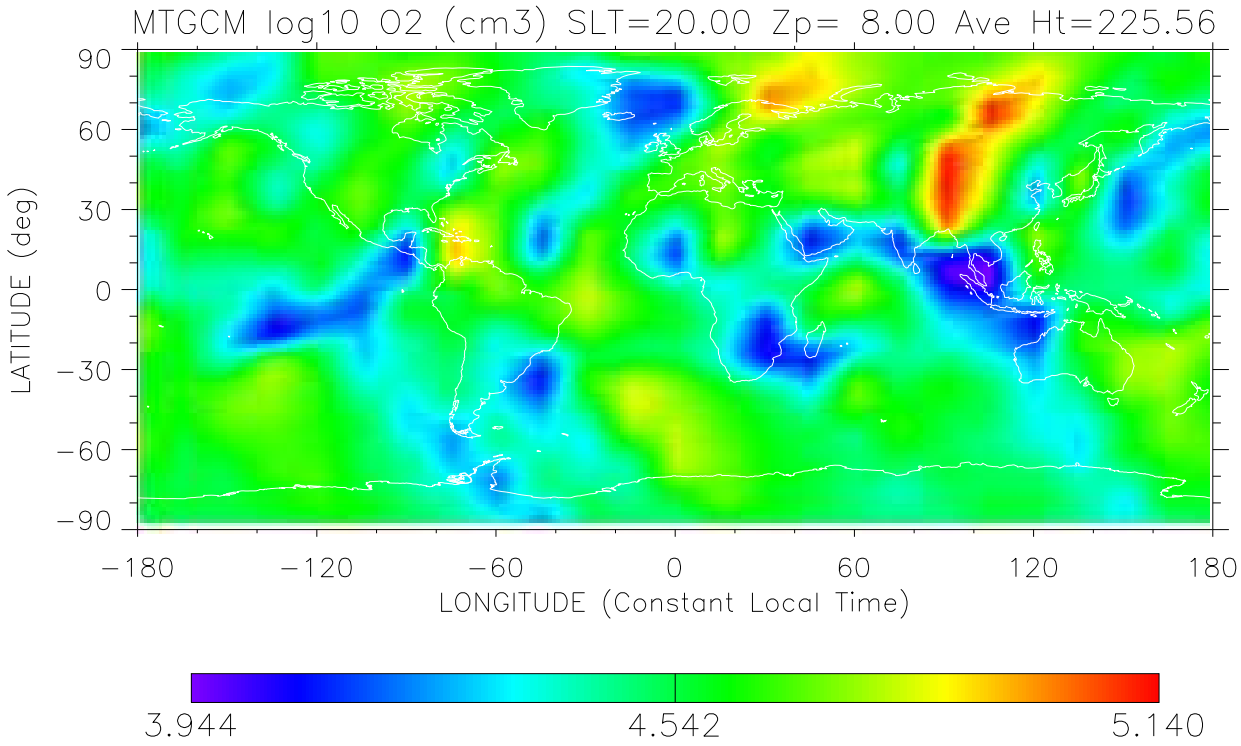

MTGCM log10 CO (cm3) SLT=20.00 Zp= 3.00 Ave Ht=157.61
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
7.703
7.849
7.996

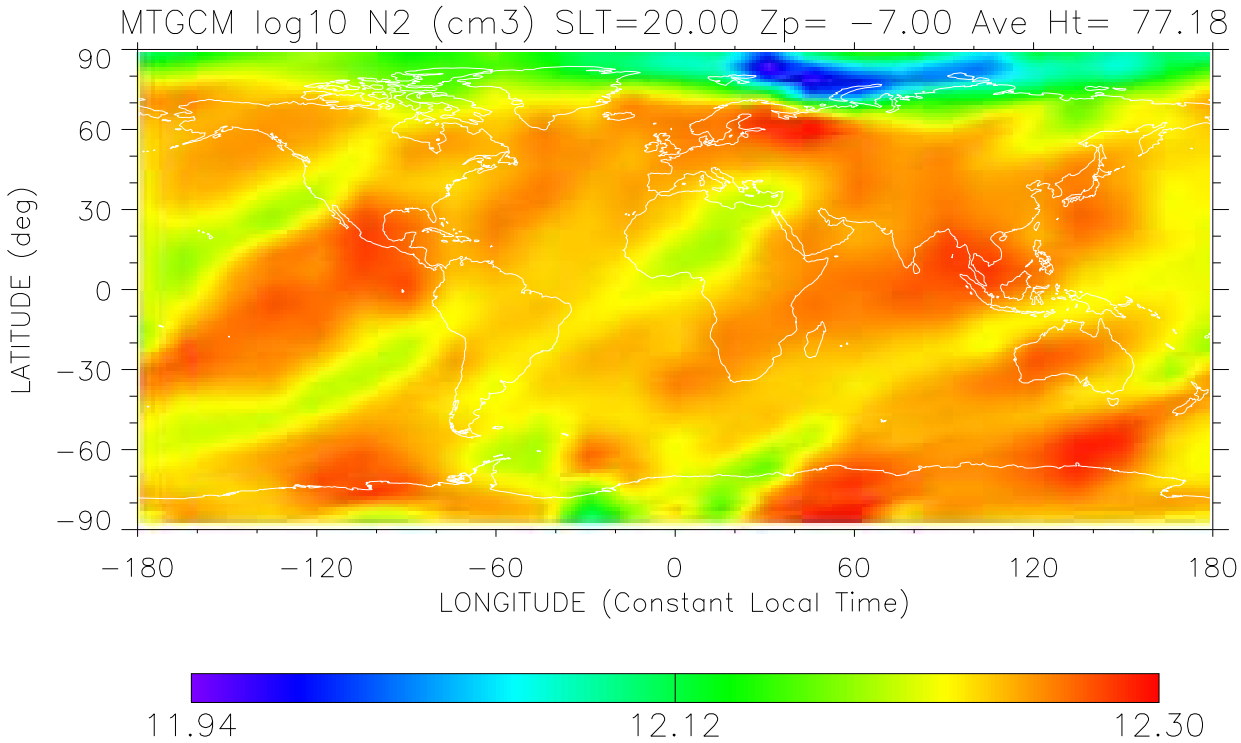

MTGCM log10 CO (cm3) SLT=20.00 Zp= 8.00 Ave Ht=225.56
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
5.495
5.888
6.282

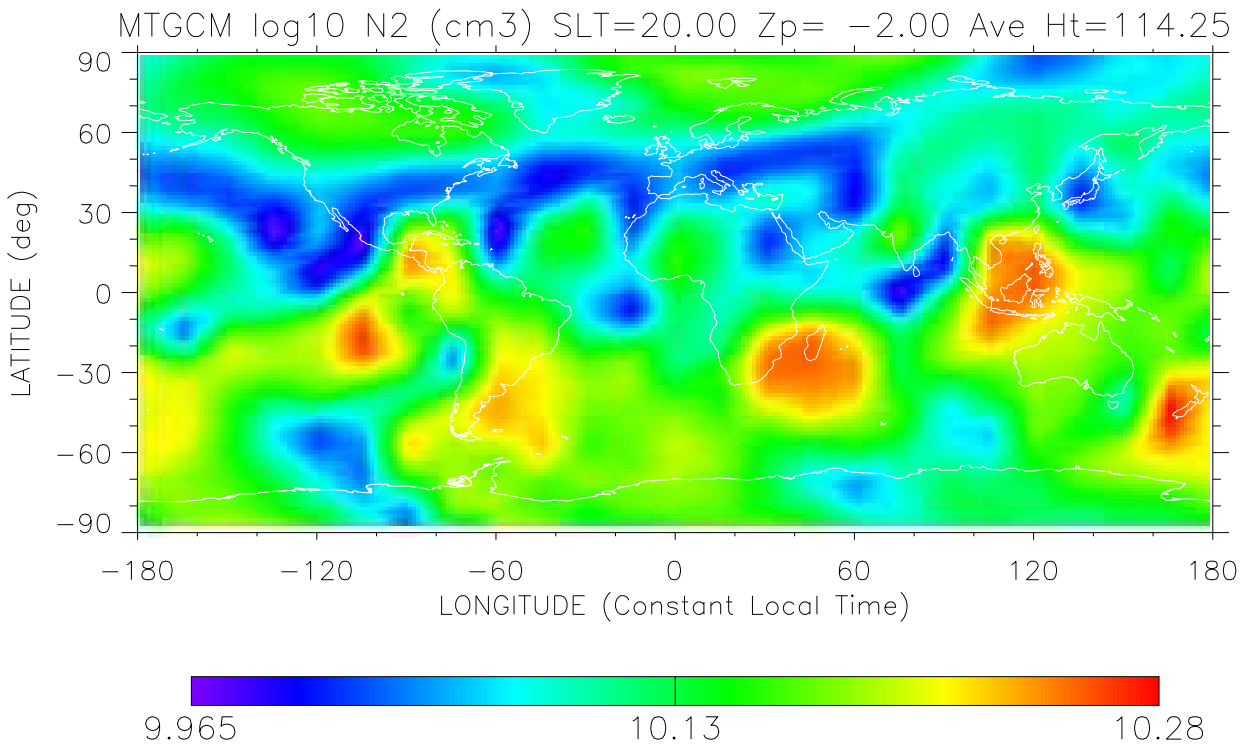

MTGCM log10 O2 (cm3) SLT=20.00 Zp= −7.00 Ave Ht= 77.18
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
10.55
10.75
10.94

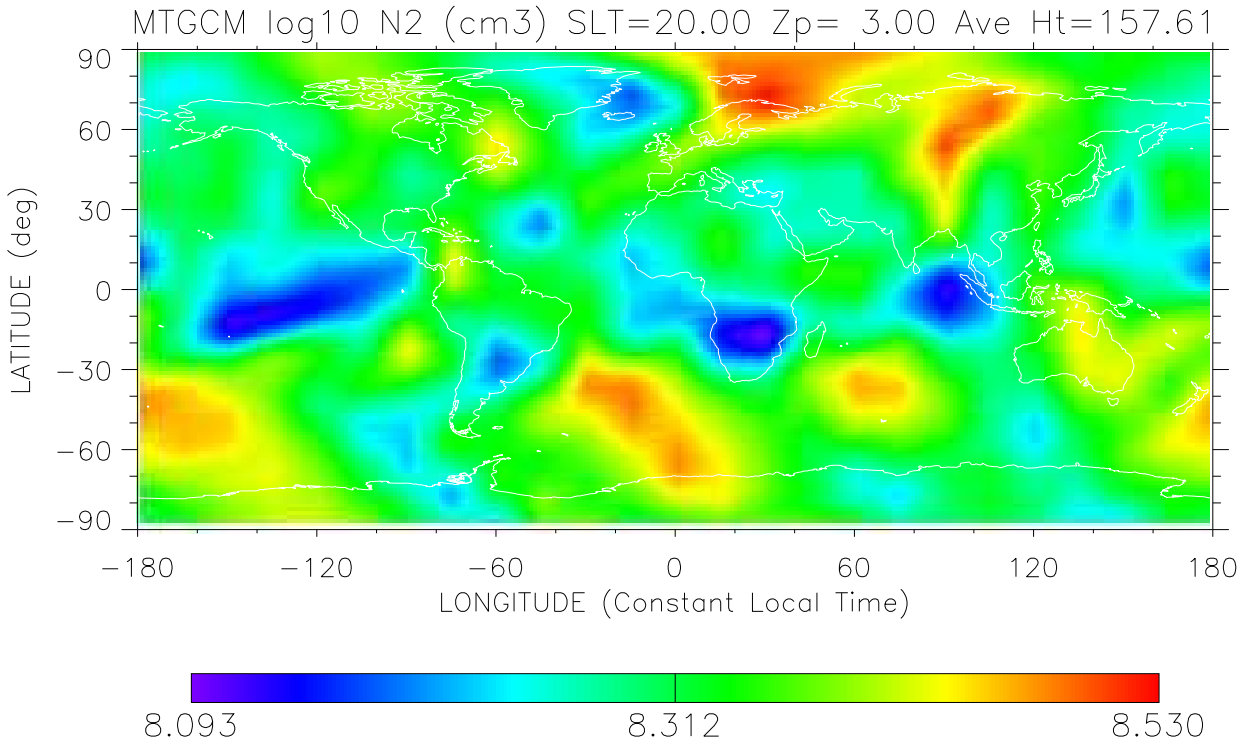

MTGCM log10 O2 (cm3) SLT=20.00 Zp= −2.00 Ave Ht=114.25
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
8.587
8.743
8.899

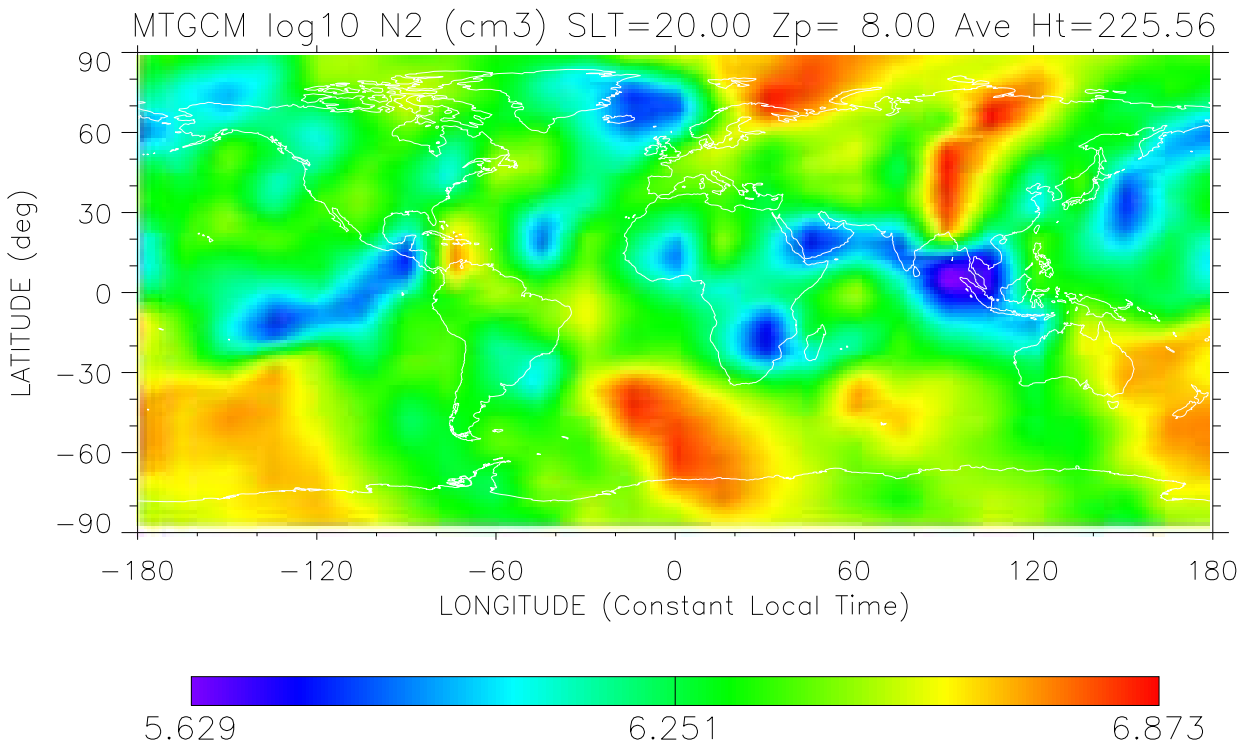

MTGCM log10 O2 (cm3) SLT=20.00 Zp= 3.00 Ave Ht=157.61
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
6.521
6.744
6.967

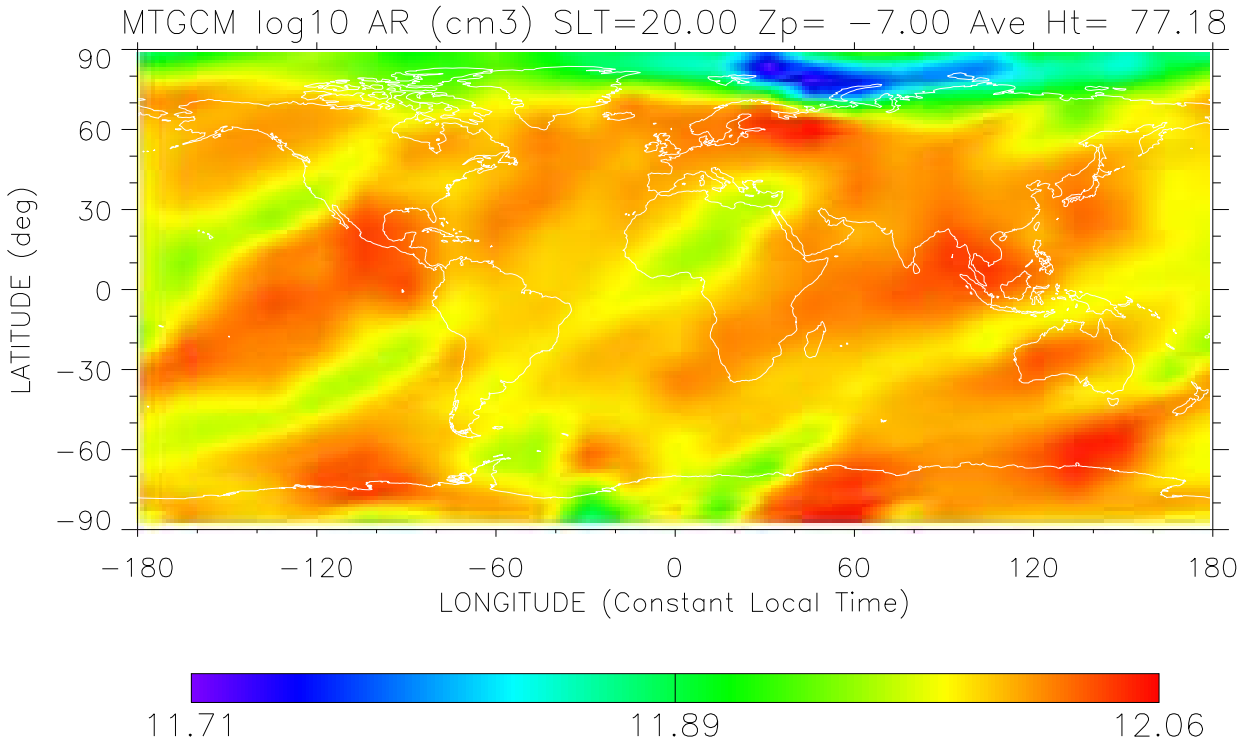

MTGCM log10 O2 (cm3) SLT=20.00 Zp= 8.00 Ave Ht=225.56
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
3.944
4.542
5.140

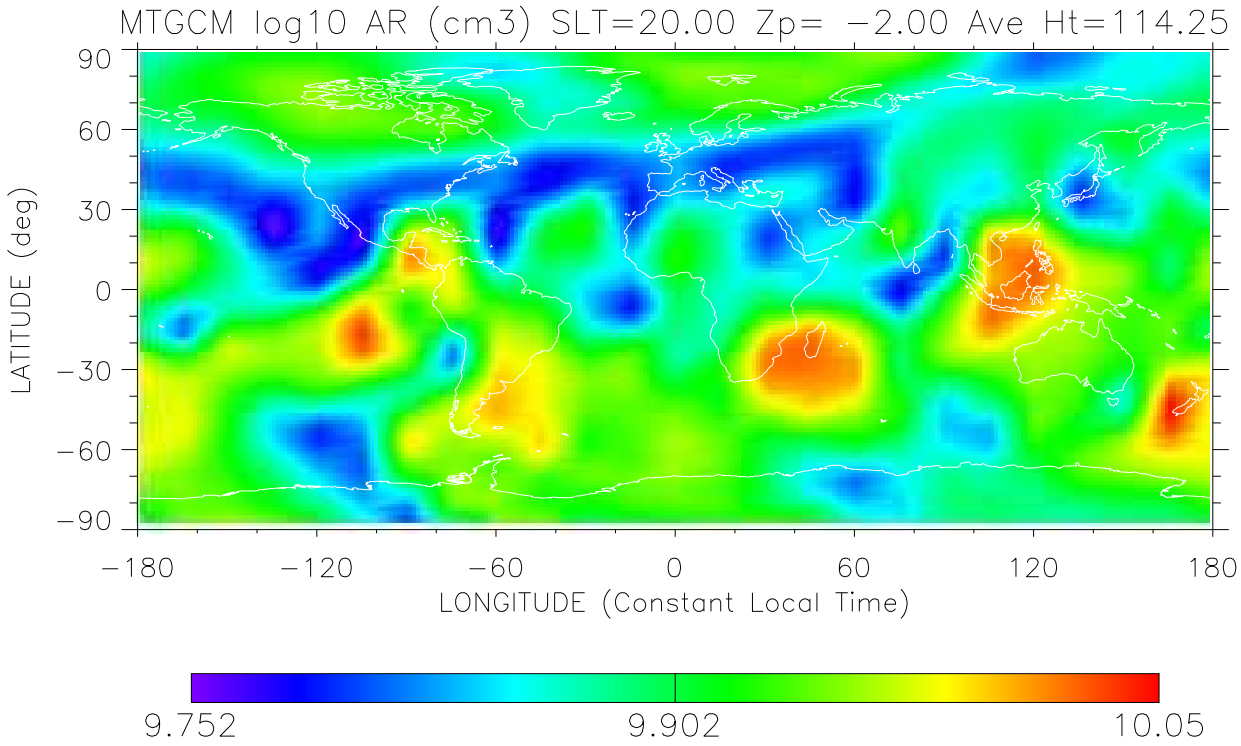

MTGCM log10 N2 (cm3) SLT=20.00 Zp= −7.00 Ave Ht= 77.18
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
11.94
12.12
12.30

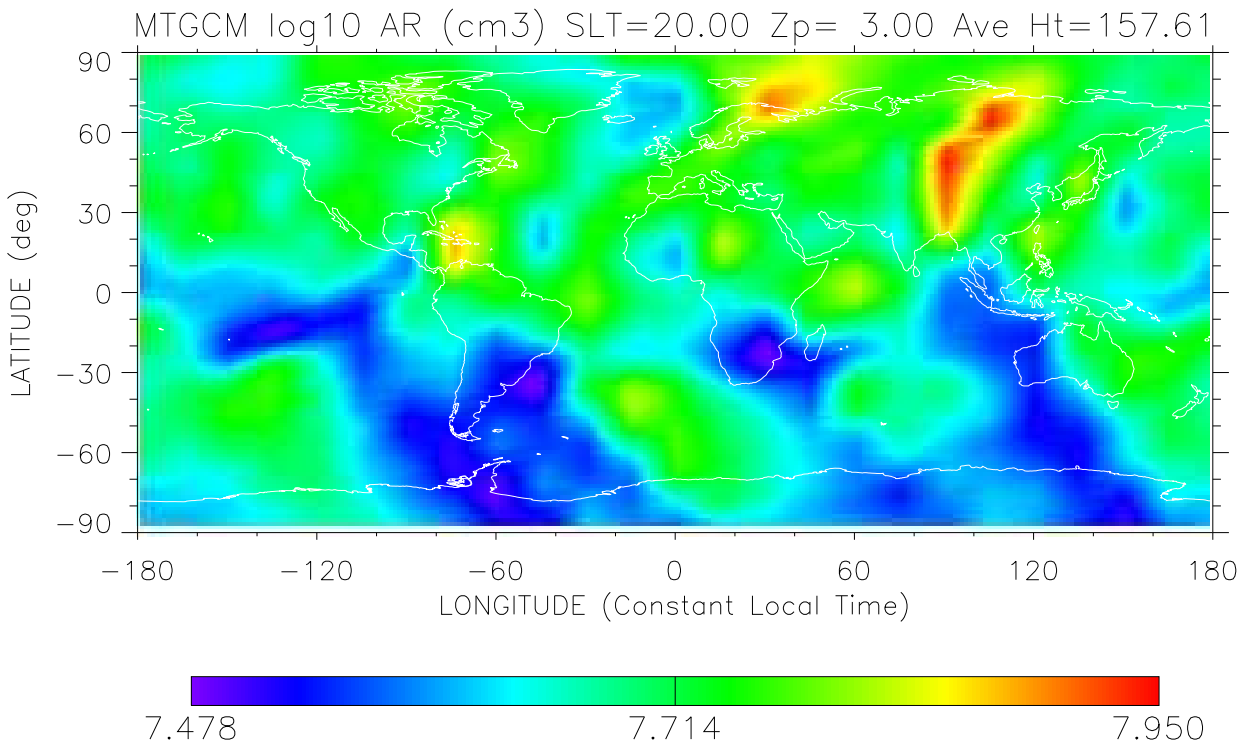

MTGCM log10 N2 (cm3) SLT=20.00 Zp= −2.00 Ave Ht=114.25
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
9.965
10.13
10.28

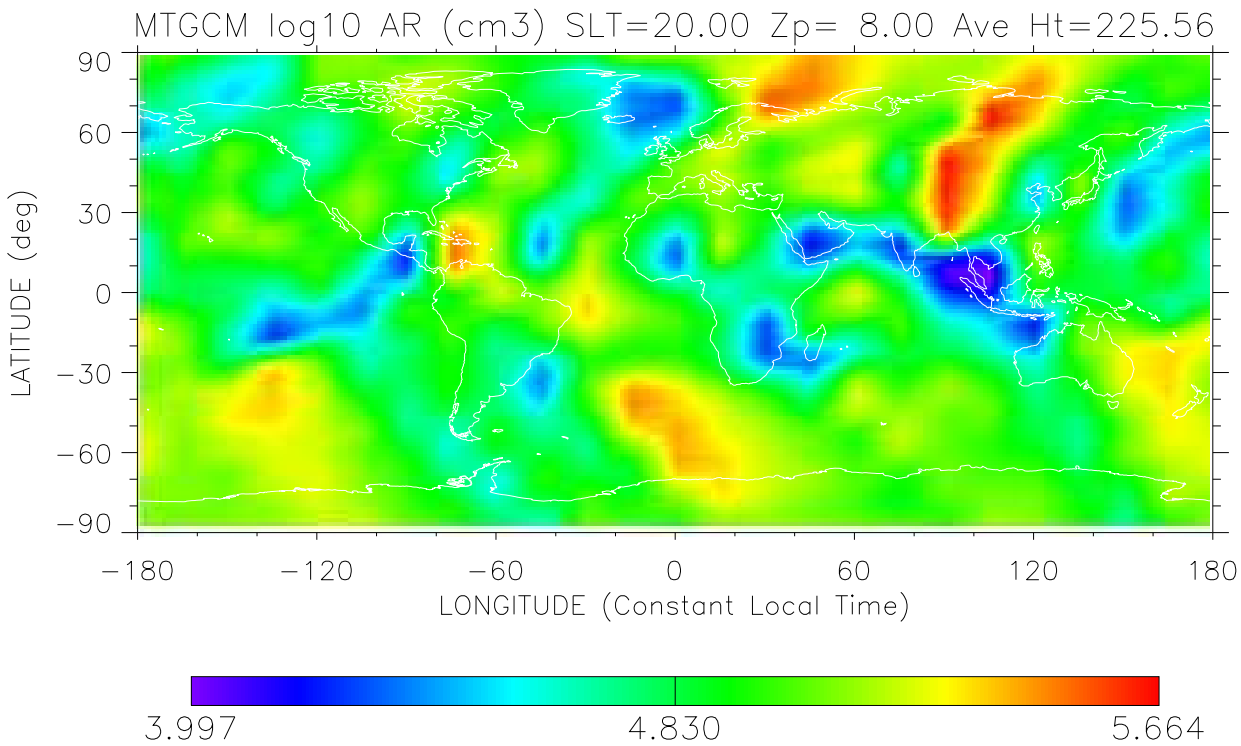

MTGCM log10 N2 (cm3) SLT=20.00 Zp= 3.00 Ave Ht=157.61
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
8.093
8.312
8.530

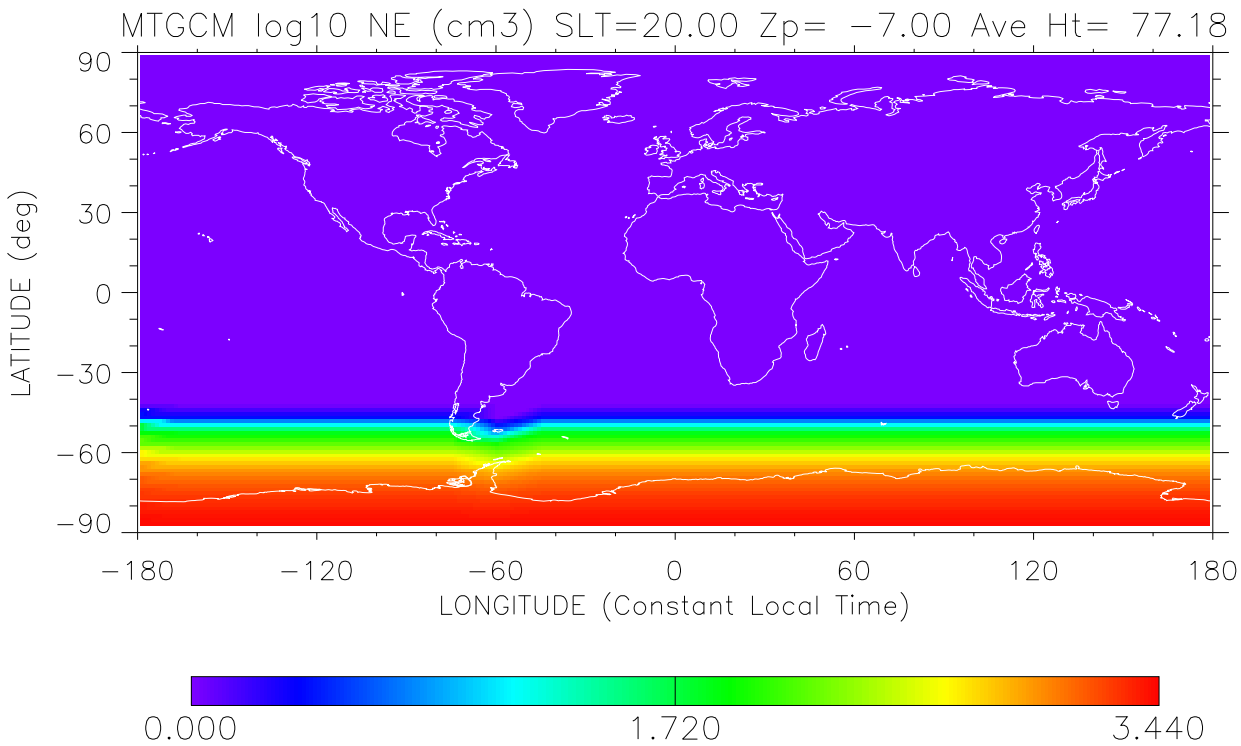

MTGCM log10 N2 (cm3) SLT=20.00 Zp= 8.00 Ave Ht=225.56
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
5.629
6.251
6.873

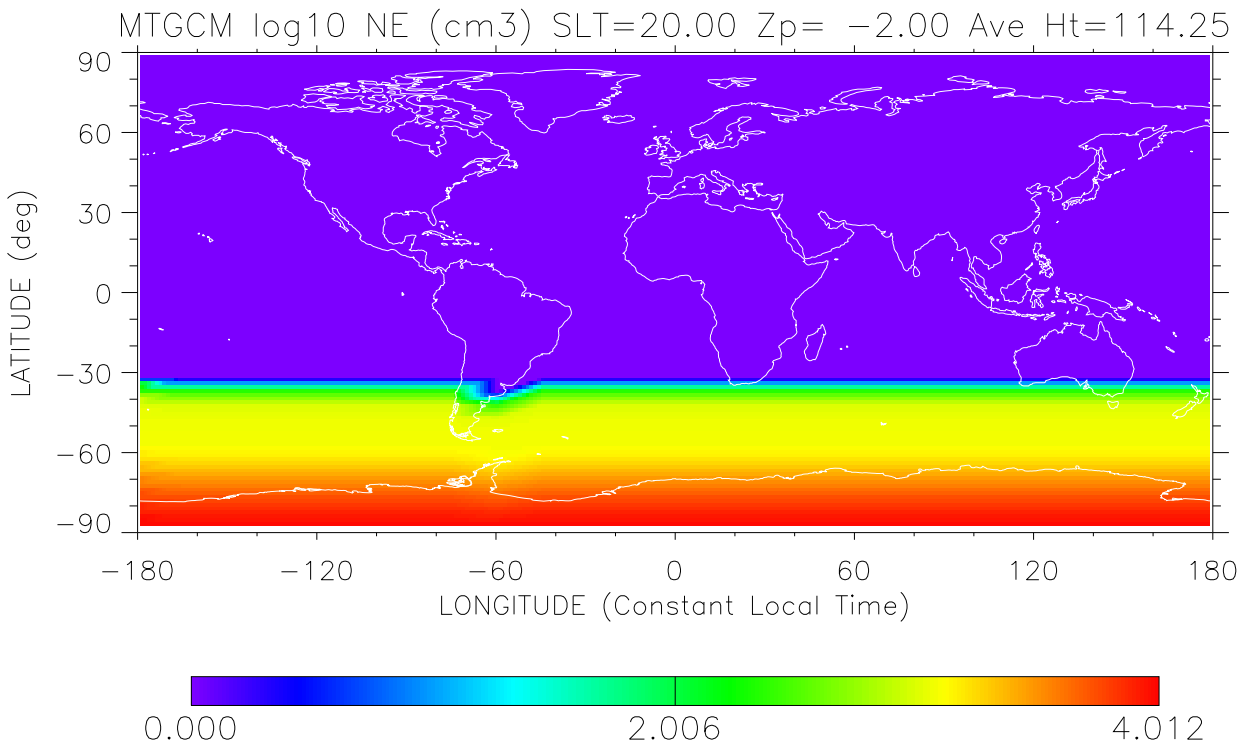

MTGCM log10 AR (cm3) SLT=20.00 Zp= −7.00 Ave Ht= 77.18
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
11.71
11.89
12.06

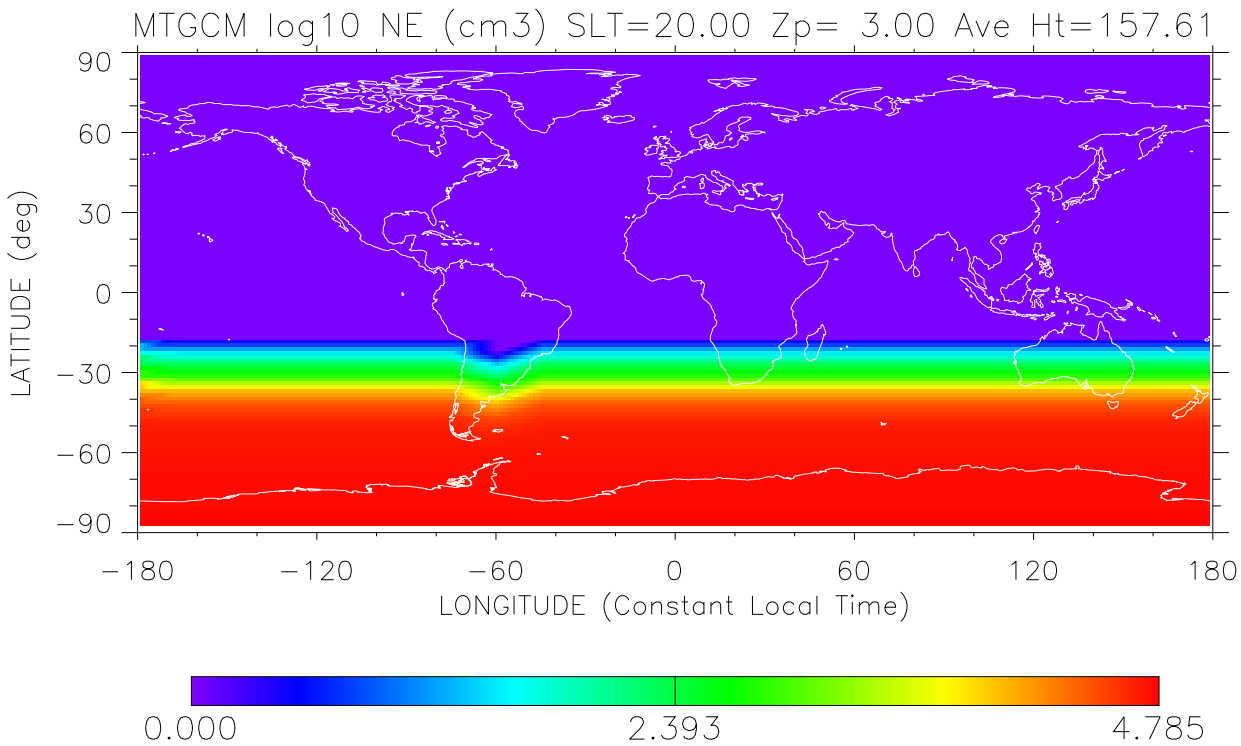

MTGCM log10 AR (cm3) SLT=20.00 Zp= −2.00 Ave Ht=114.25
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
9.752
9.902
10.05

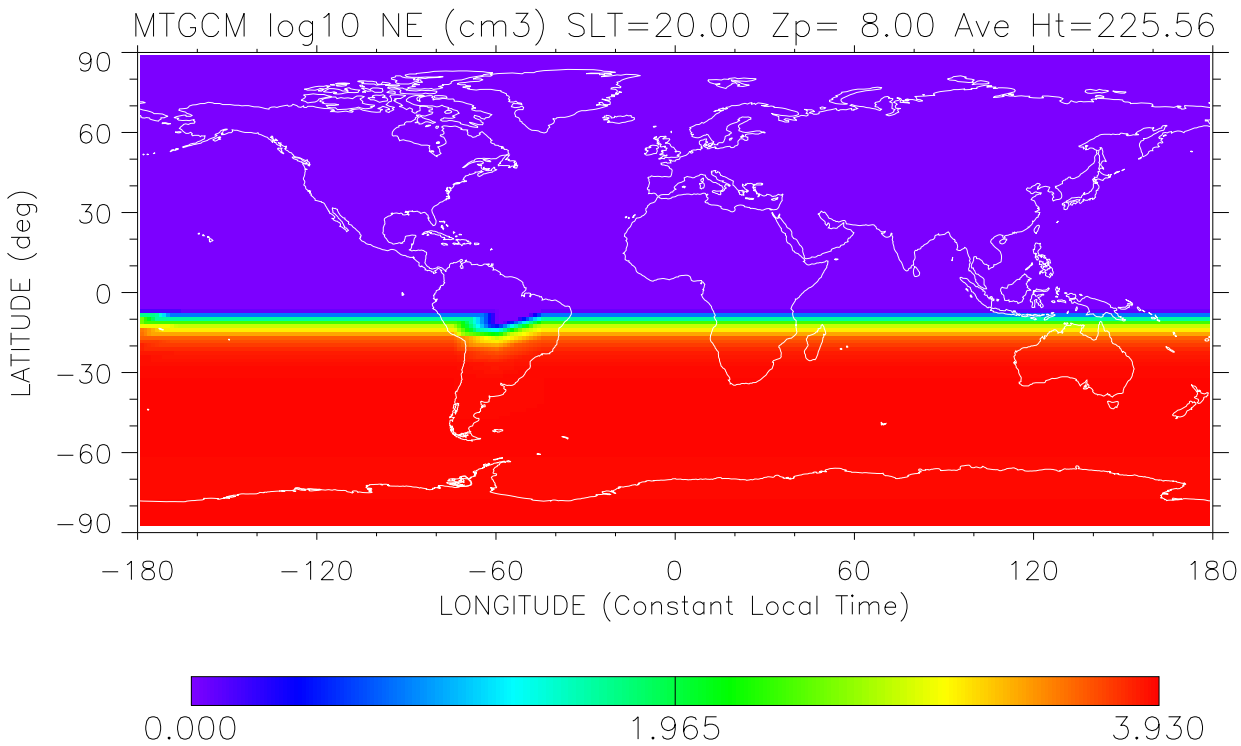

MTGCM log10 AR (cm3) SLT=20.00 Zp= 3.00 Ave Ht=157.61
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
7.478
7.714
7.950

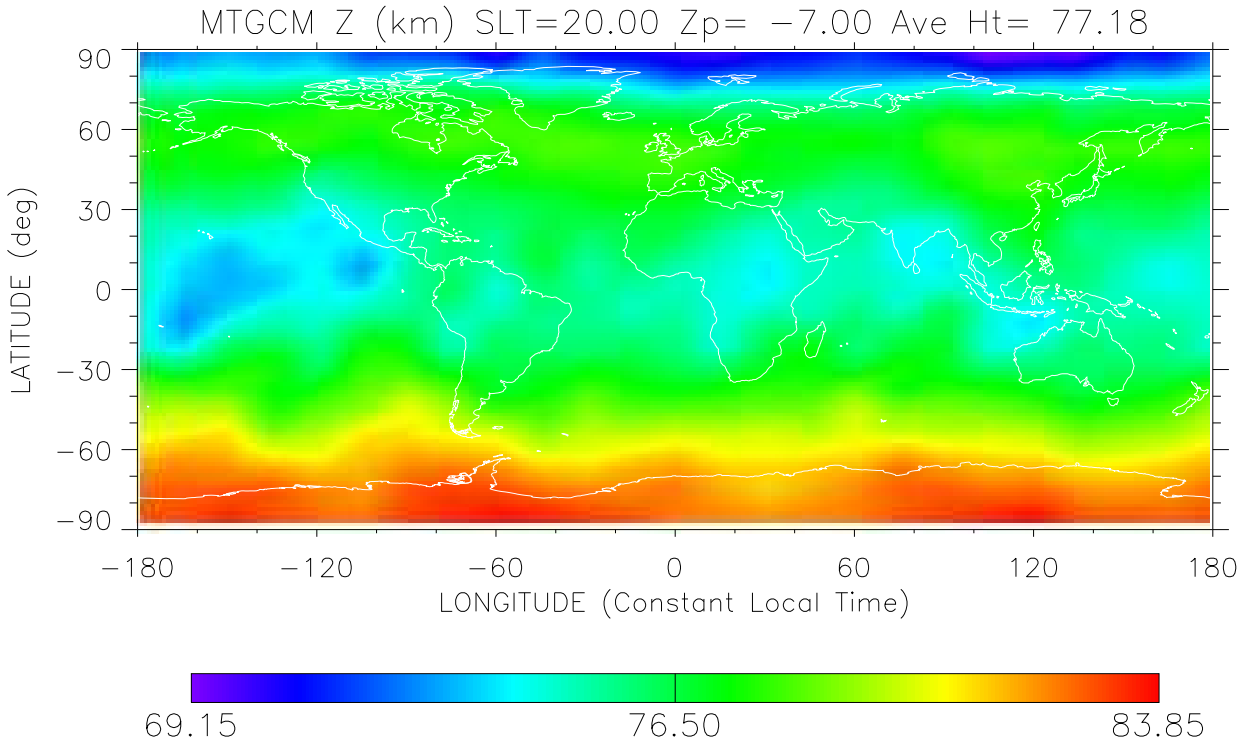

MTGCM log10 AR (cm3) SLT=20.00 Zp= 8.00 Ave Ht=225.56
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
3.997
4.830
5.664

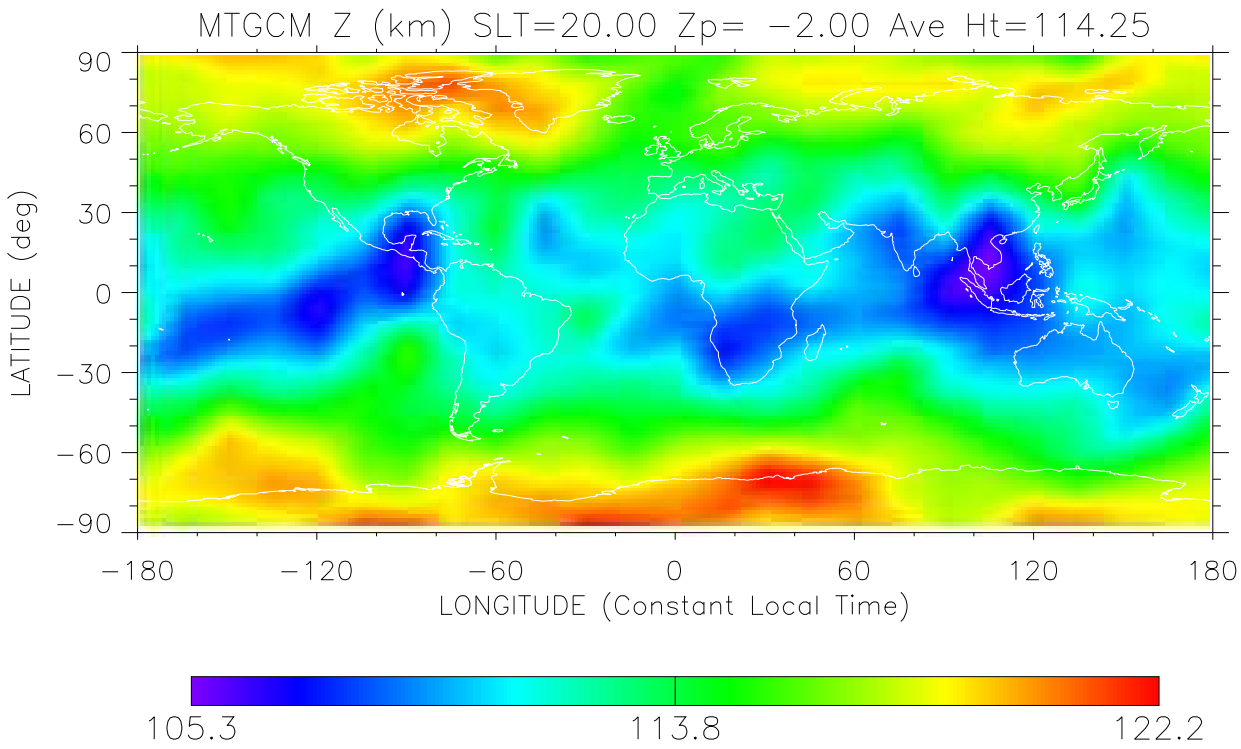

MTGCM log10 NE (cm3) SLT=20.00 Zp= −7.00 Ave Ht= 77.18
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
0.000
1.720
3.440

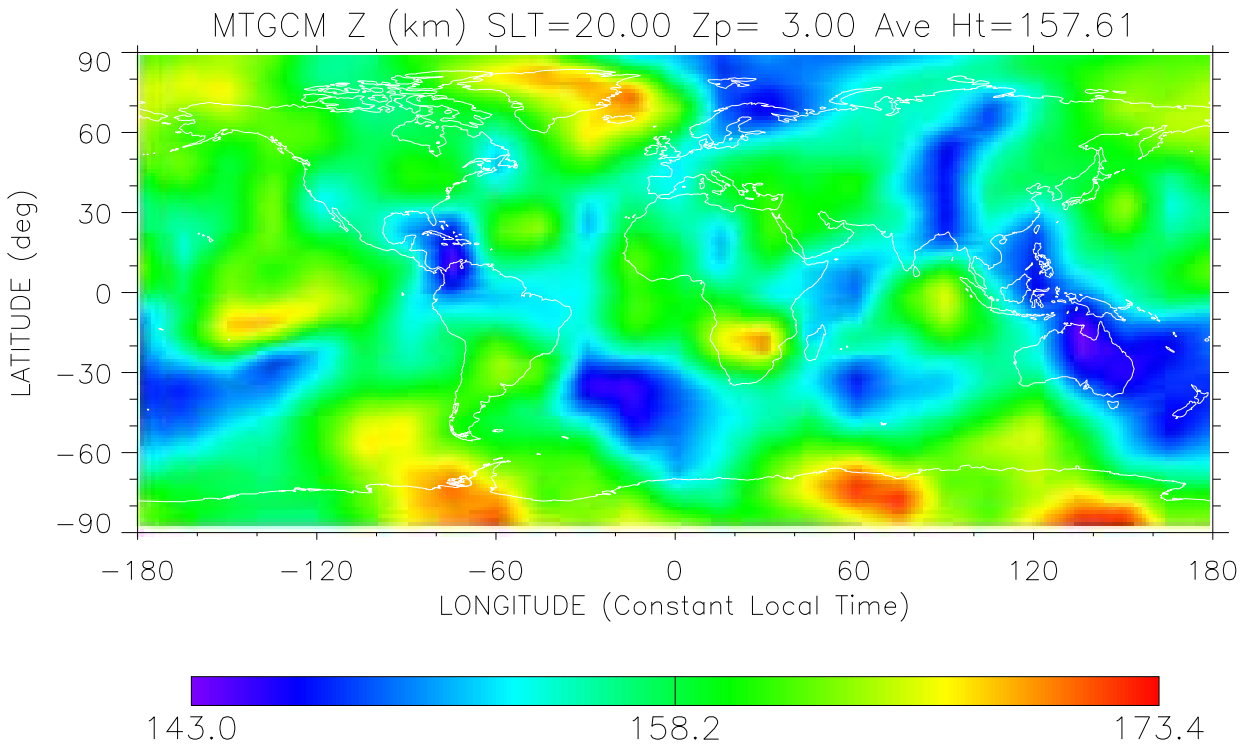

MTGCM log10 NE (cm3) SLT=20.00 Zp= −2.00 Ave Ht=114.25
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
0.000
2.006
4.012

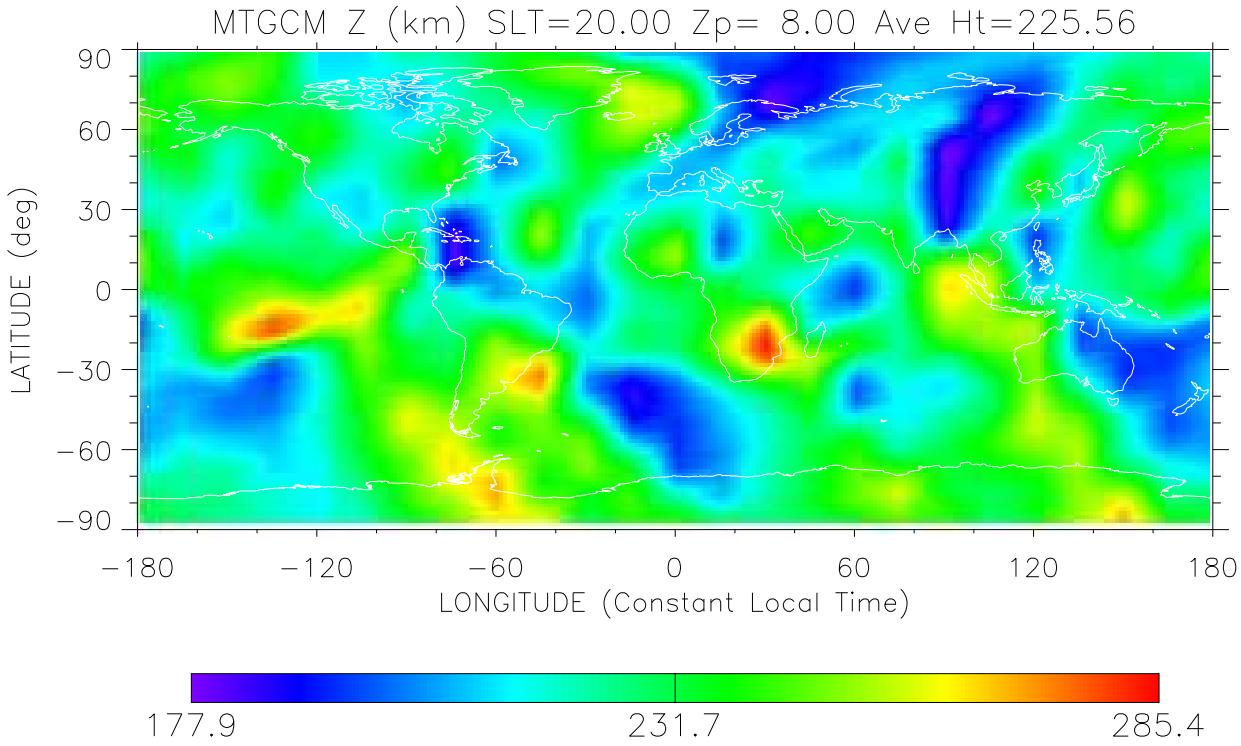

MTGCM log10 NE (cm3) SLT=20.00 Zp= 3.00 Ave Ht=157.61
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
0.000
2.393
4.785

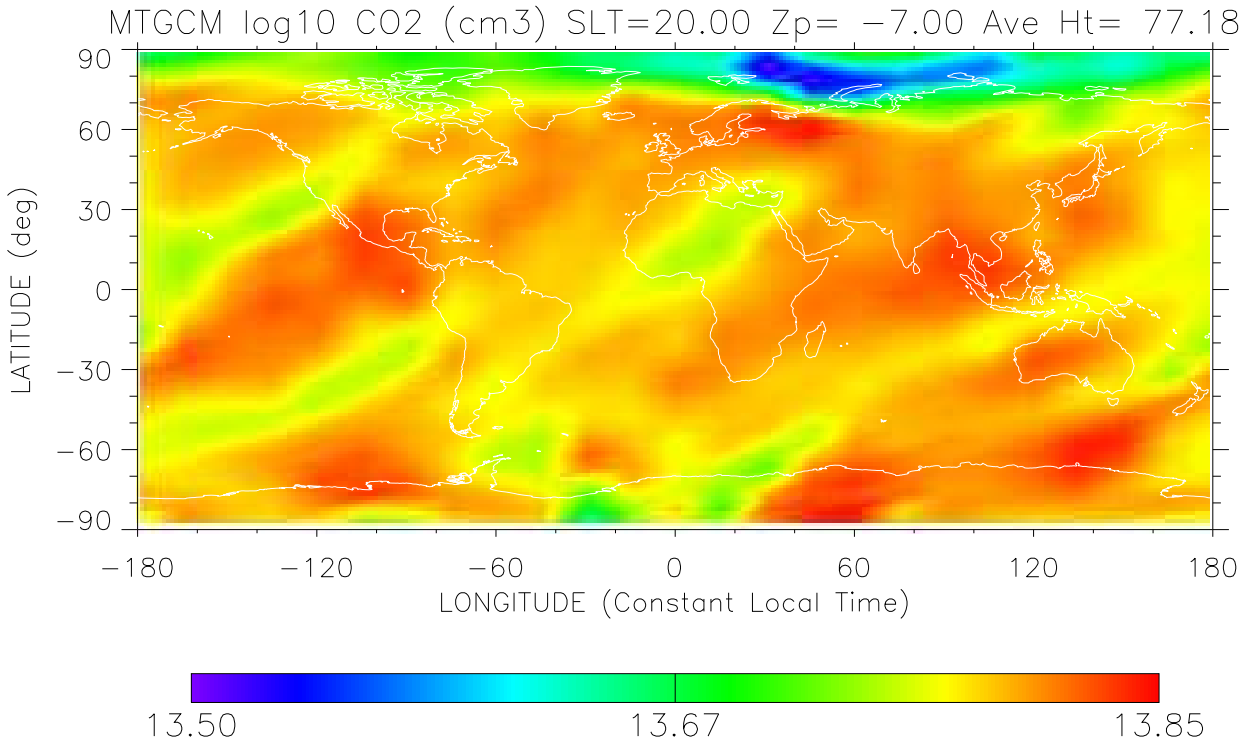

MTGCM log10 NE (cm3) SLT=20.00 Zp= 8.00 Ave Ht=225.56
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
0.000
1.965
3.930

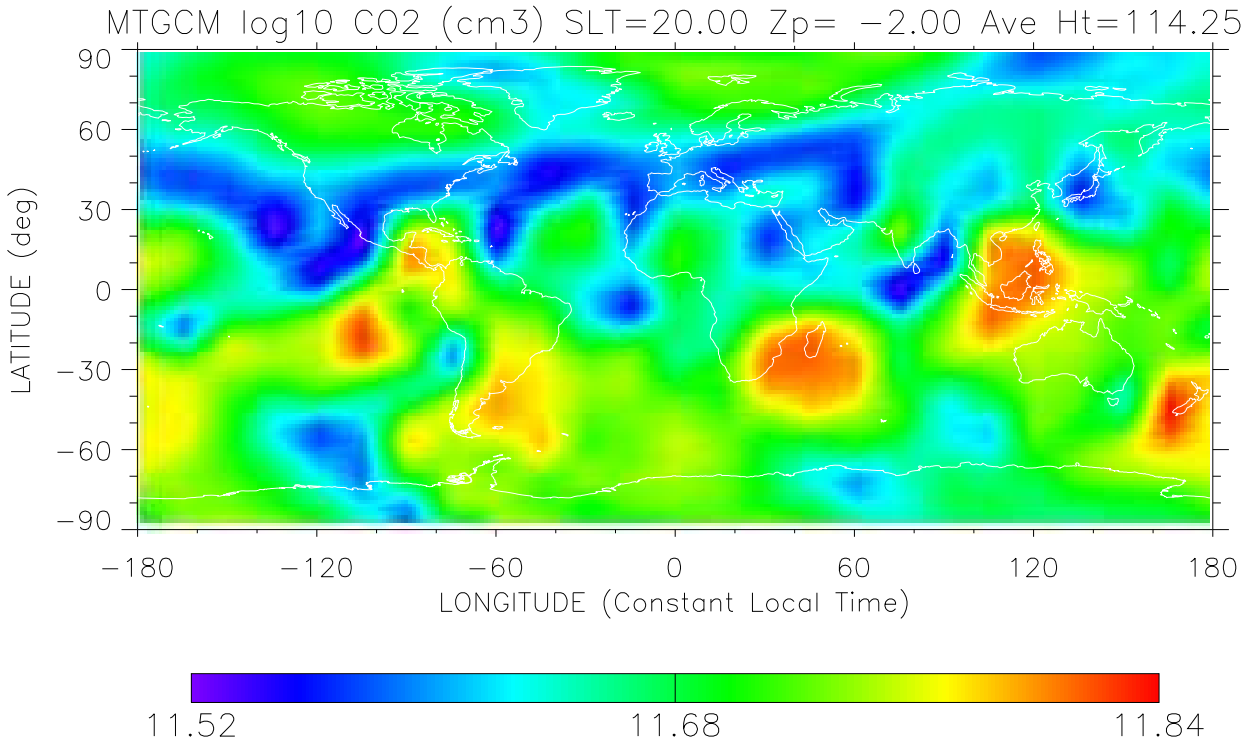

MTGCM Z (km) SLT=20.00 Zp= −7.00 Ave Ht= 77.18
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
69.15
76.50
83.85

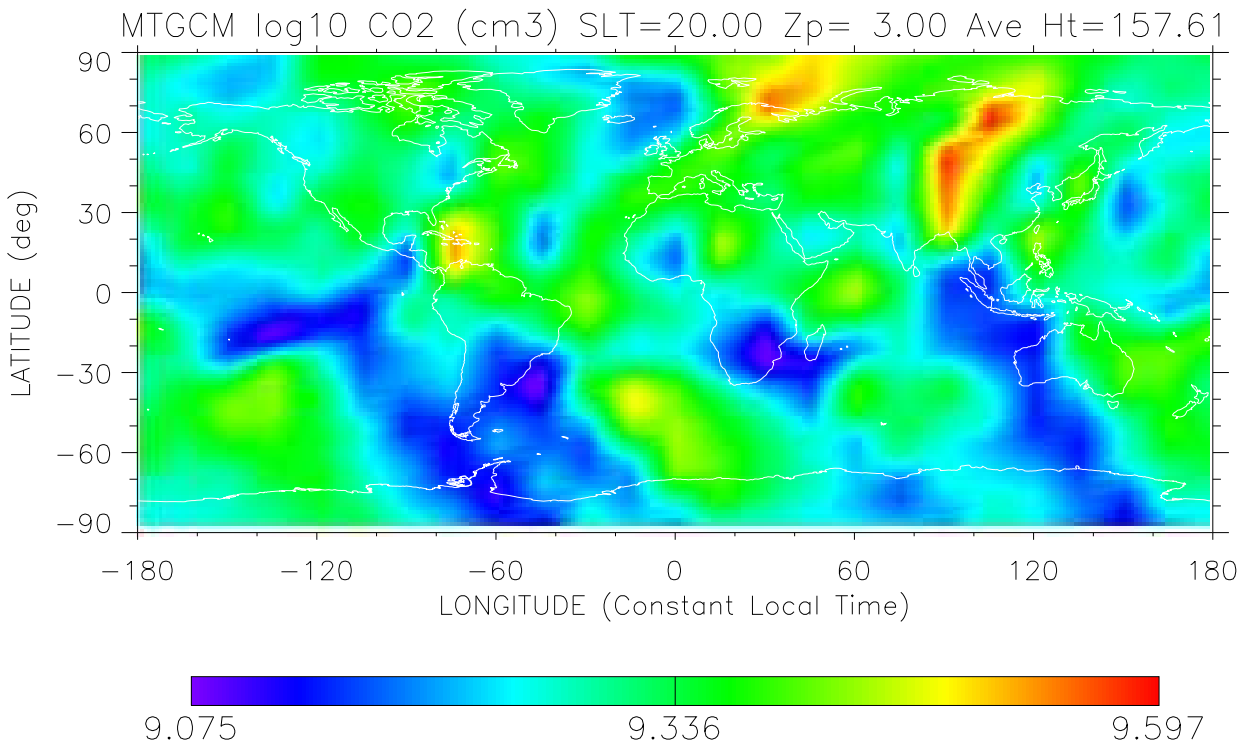

MTGCM Z (km) SLT=20.00 Zp= −2.00 Ave Ht=114.25
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
105.3
113.8
122.2

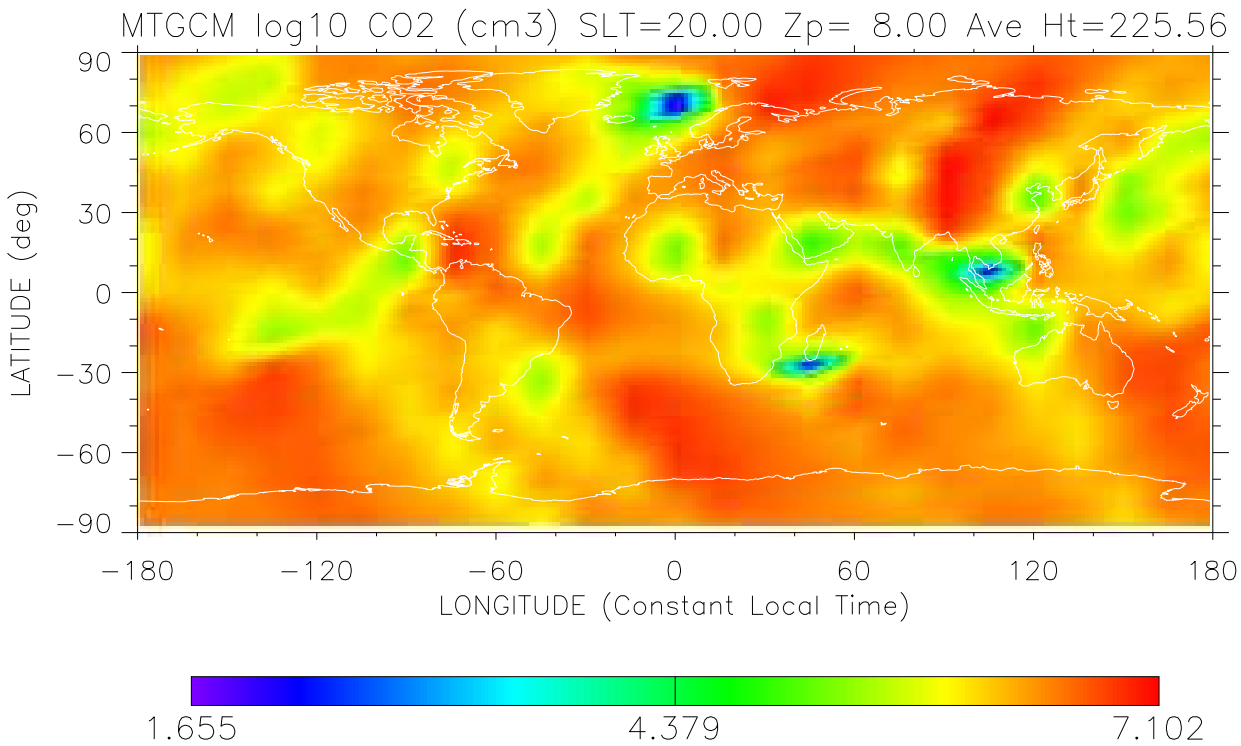

MTGCM Z (km) SLT=20.00 Zp= 3.00 Ave Ht=157.61
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
143.0
158.2
173.4

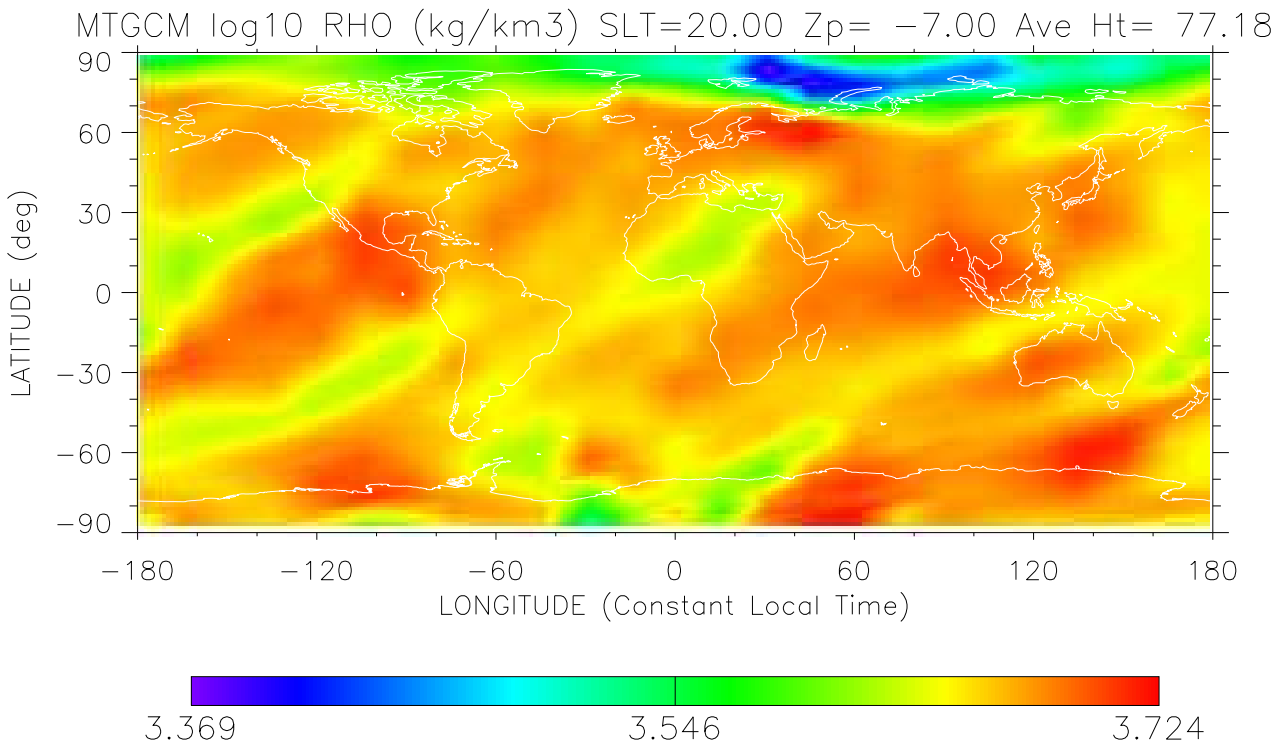

MTGCM Z (km) SLT=20.00 Zp= 8.00 Ave Ht=225.56
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
177.9
231.7
285.4

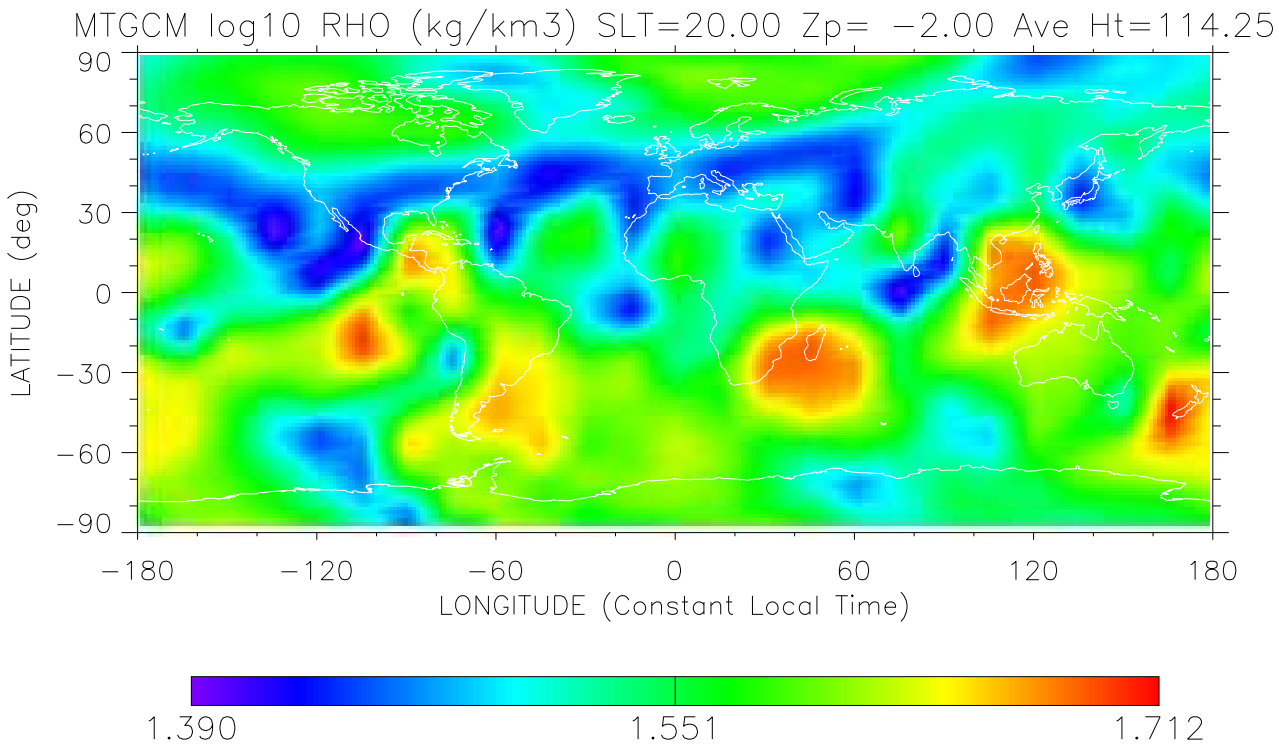

MTGCM log10 CO2 (cm3) SLT=20.00 Zp= −7.00 Ave Ht= 77.18
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
13.50
13.67
13.85

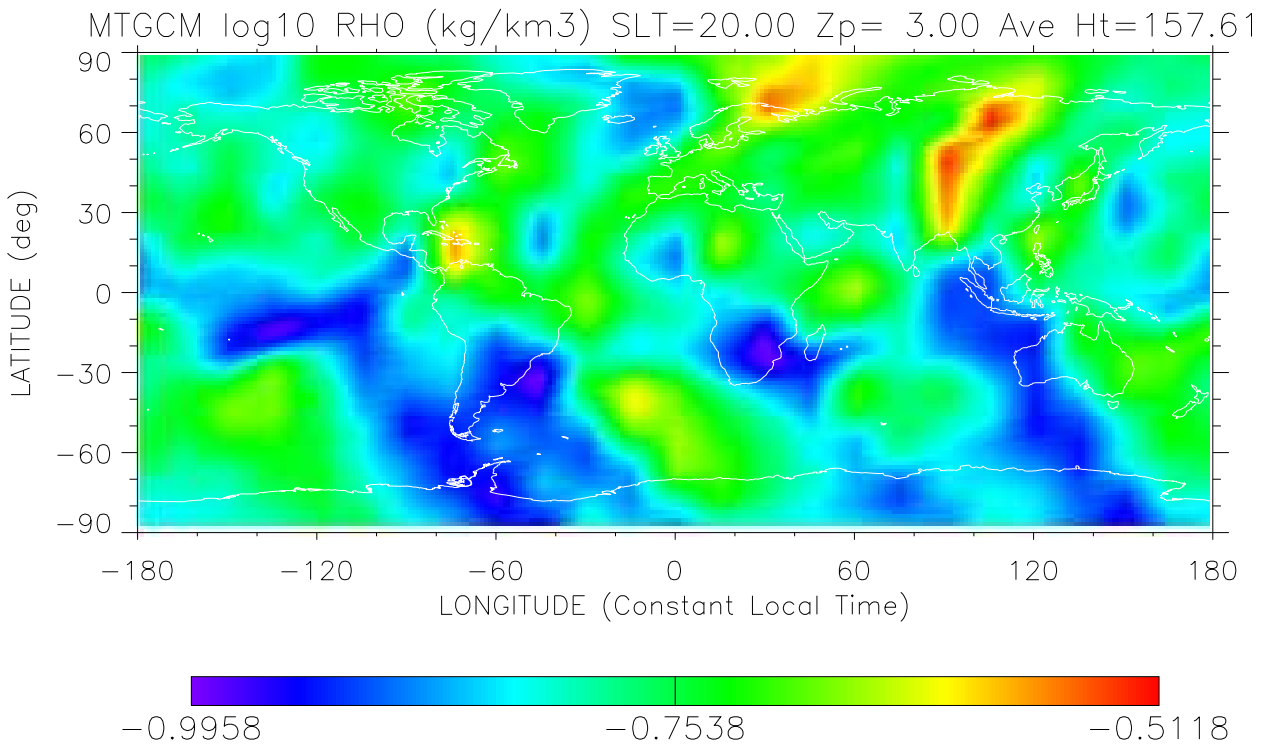

MTGCM log10 CO2 (cm3) SLT=20.00 Zp= −2.00 Ave Ht=114.25
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
11.52
11.68
11.84

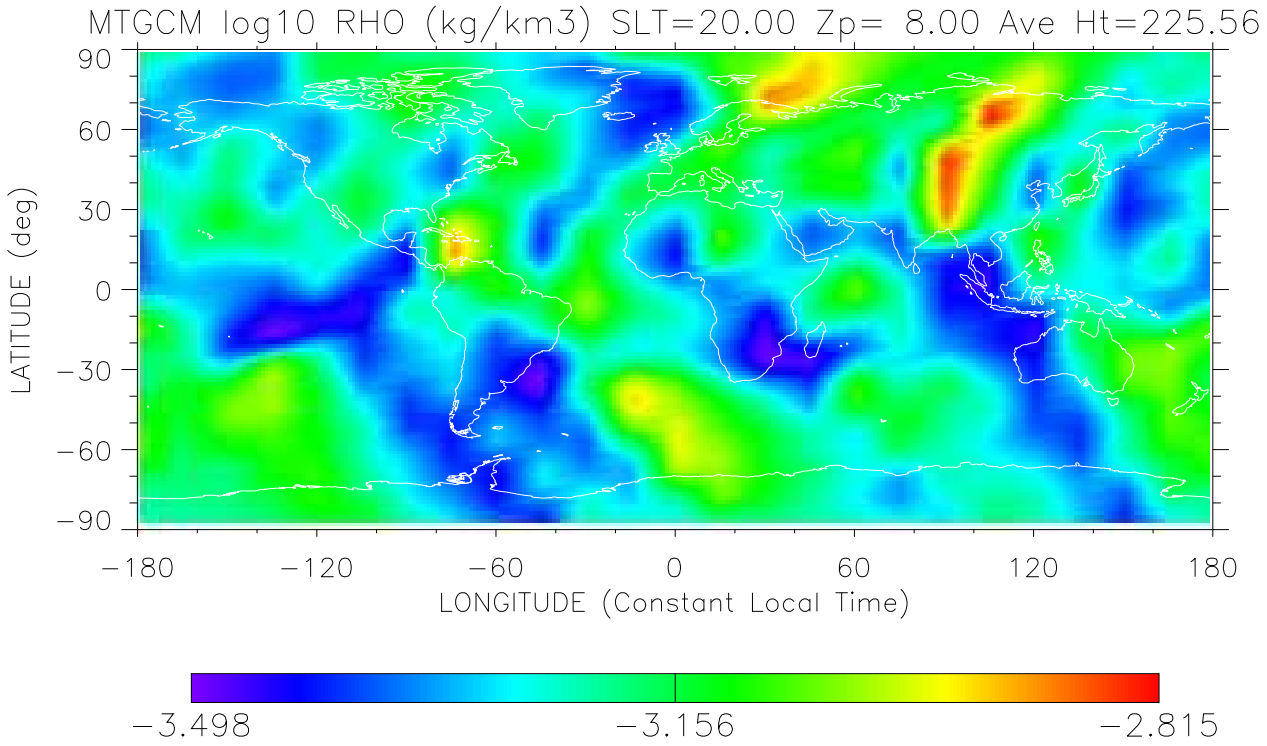

MTGCM log10 CO2 (cm3) SLT=20.00 Zp= 3.00 Ave Ht=157.61
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
9.075
9.336
9.597

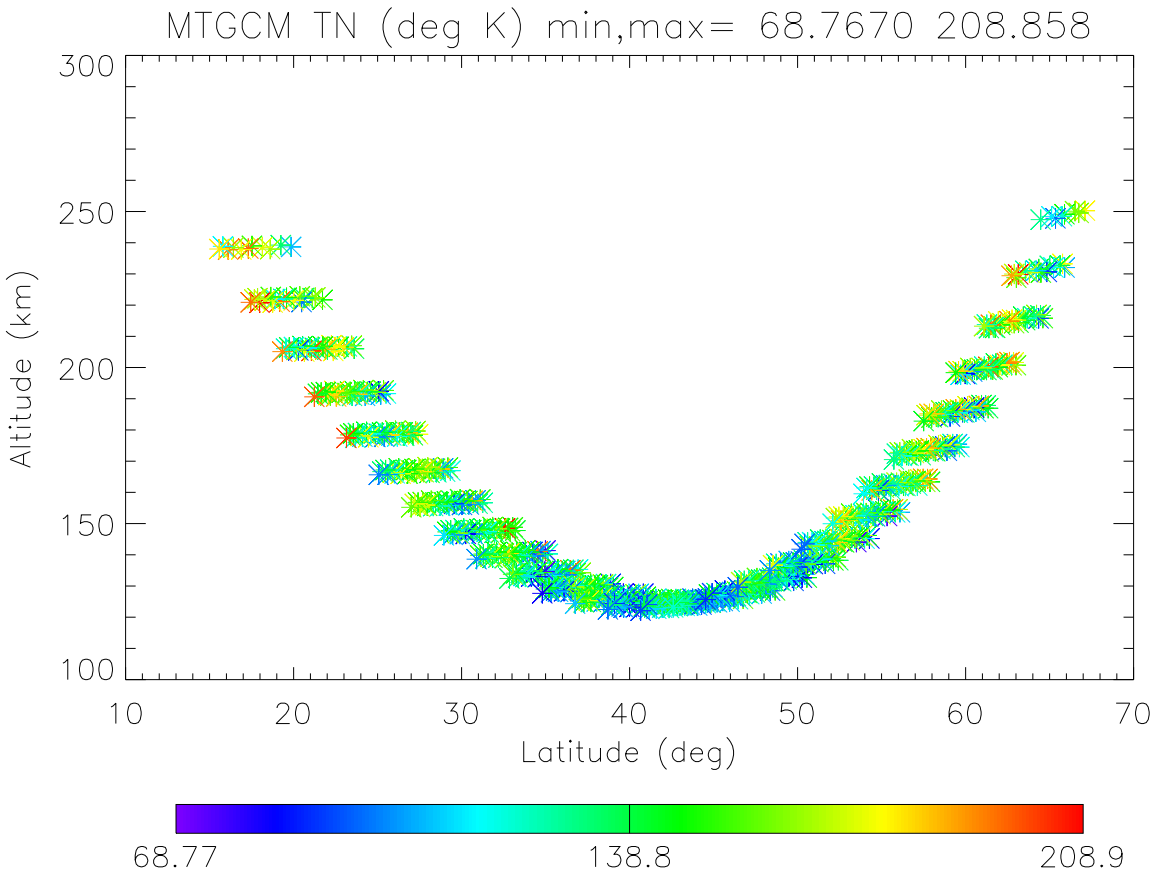

MTGCM log10 CO2 (cm3) SLT=20.00 Zp= 8.00 Ave Ht=225.56
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.655
4.379
7.102

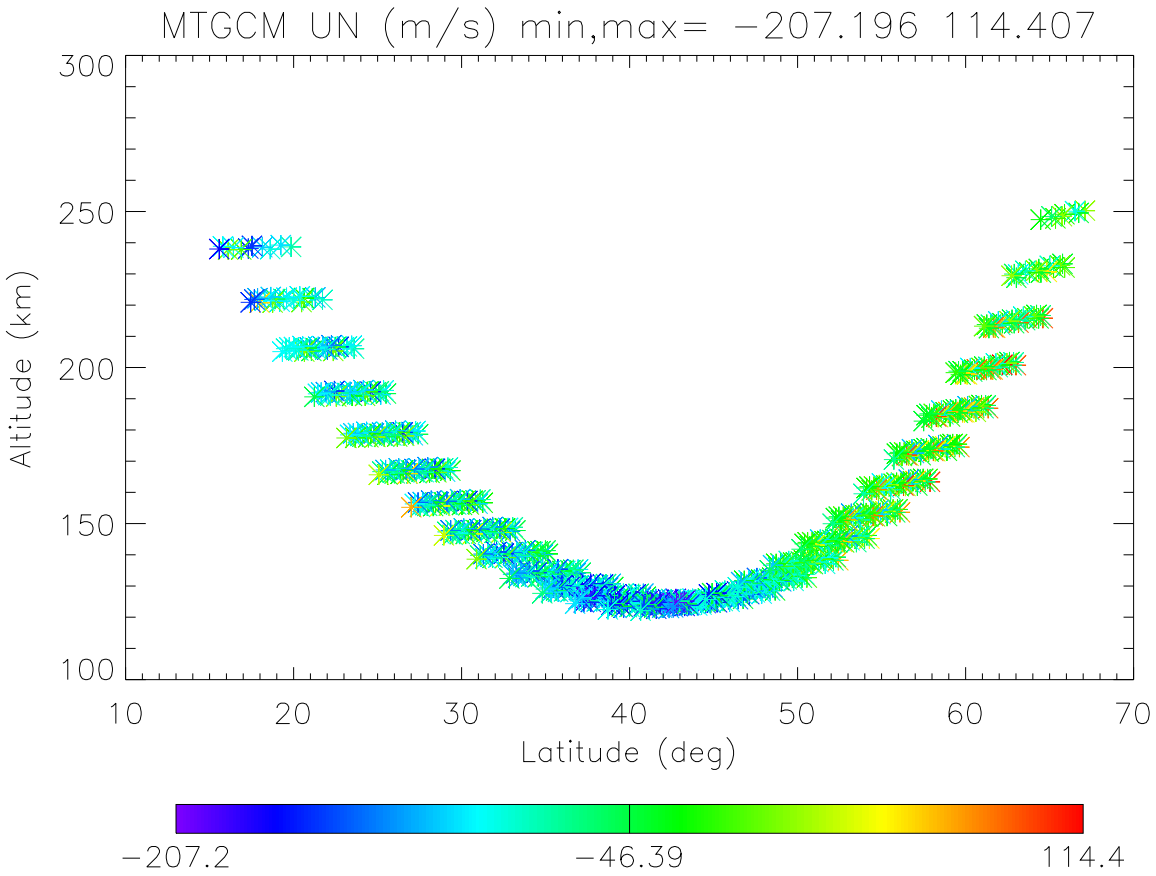

MTGCM log10 RHO (kg/km3) SLT=20.00 Zp= −7.00 Ave Ht= 77.18
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
3.369
3.546
3.724

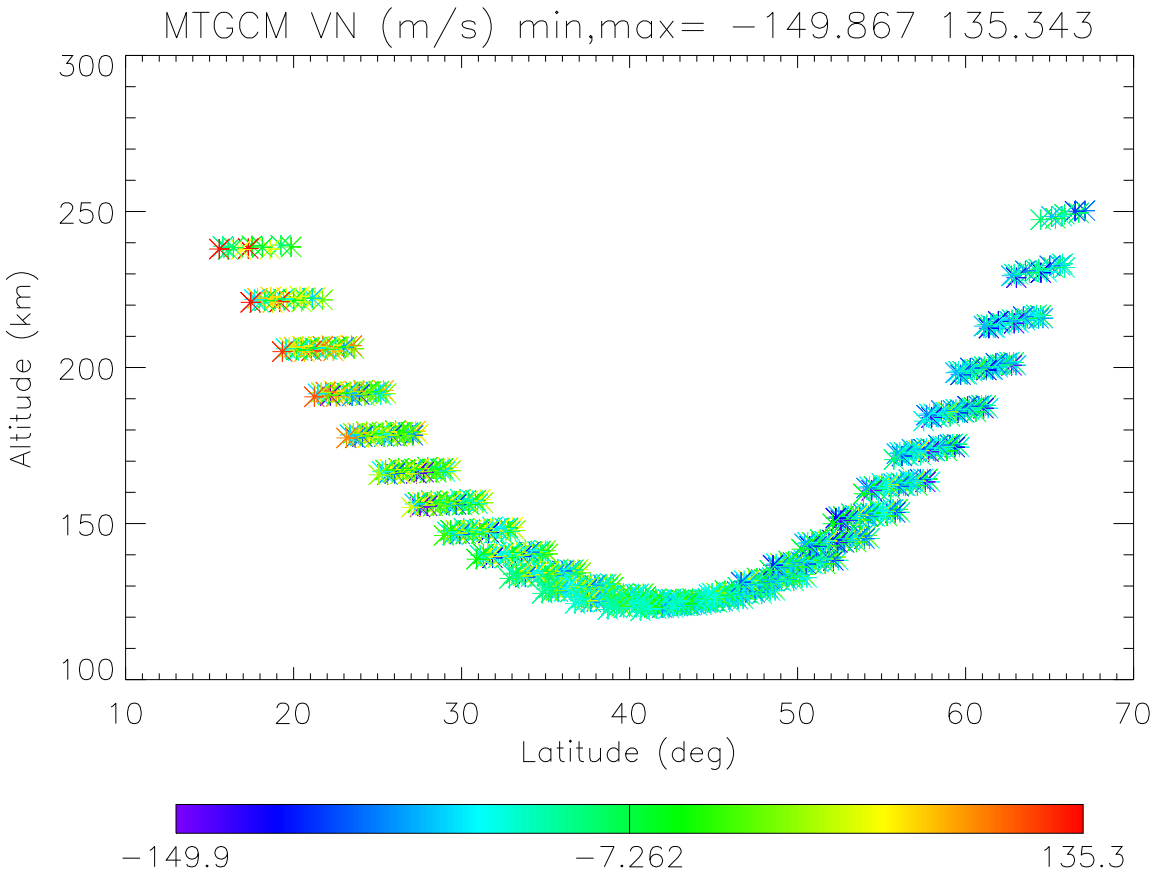

MTGCM log10 RHO (kg/km3) SLT=20.00 Zp= −2.00 Ave Ht=114.25
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.390
1.551
1.712

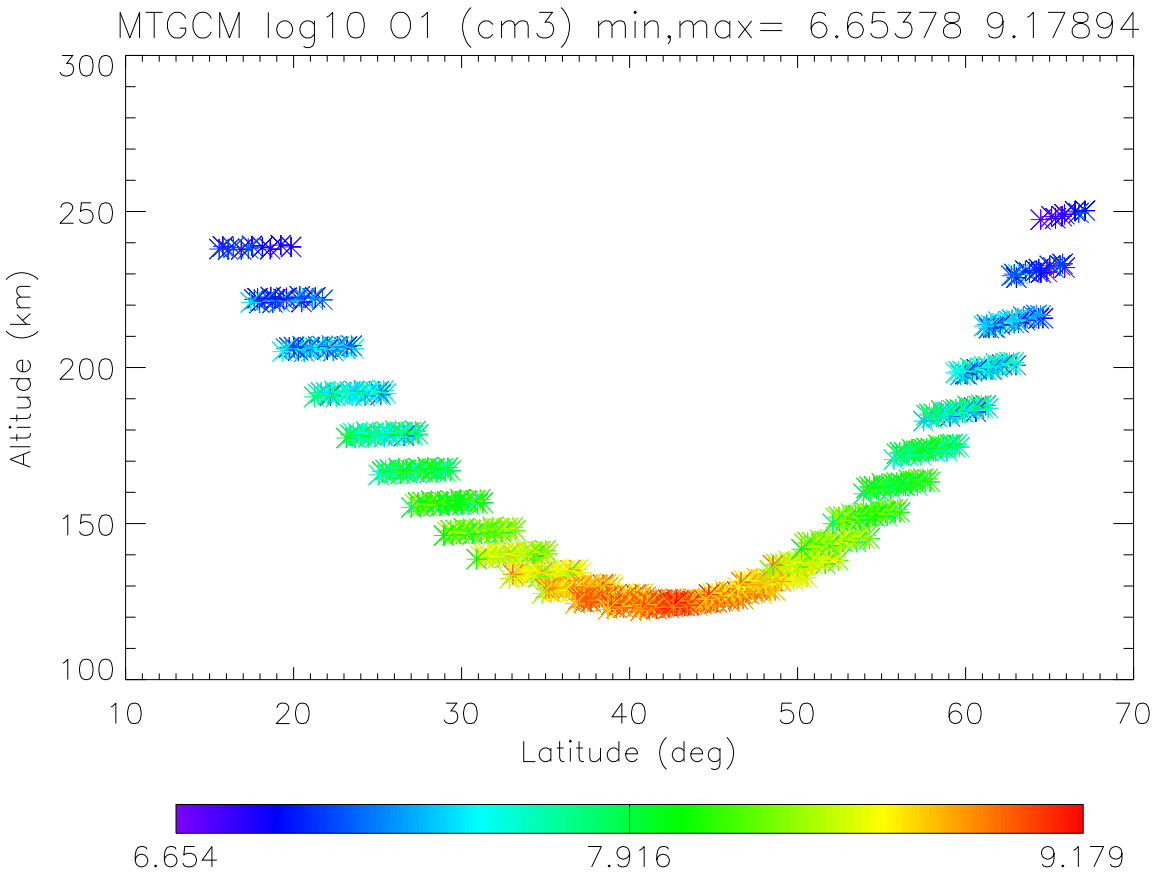

MTGCM log10 RHO (kg/km3) SLT=20.00 Zp= 3.00 Ave Ht=157.61
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−0.9958
−0.7538
−0.5118

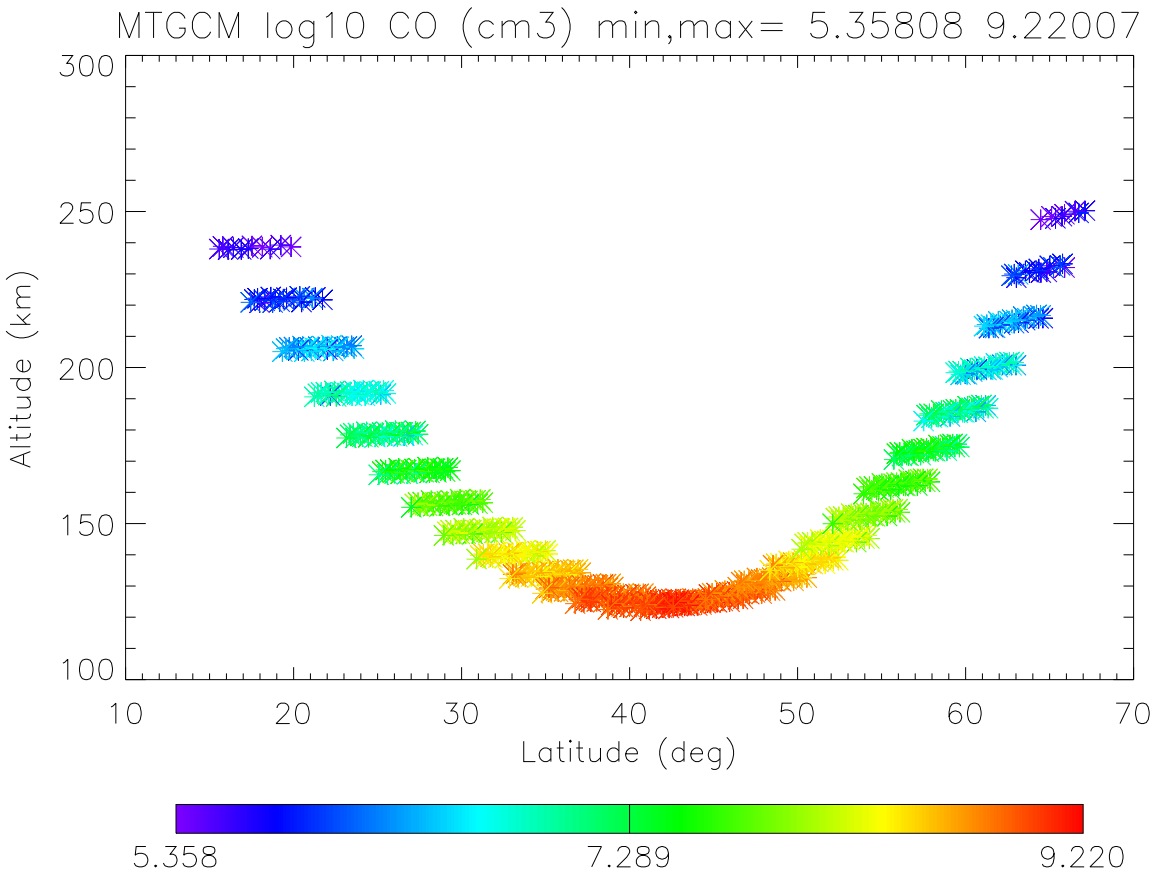

MTGCM log10 RHO (kg/km3) SLT=20.00 Zp= 8.00 Ave Ht=225.56
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−3.498
−3.156
−2.815

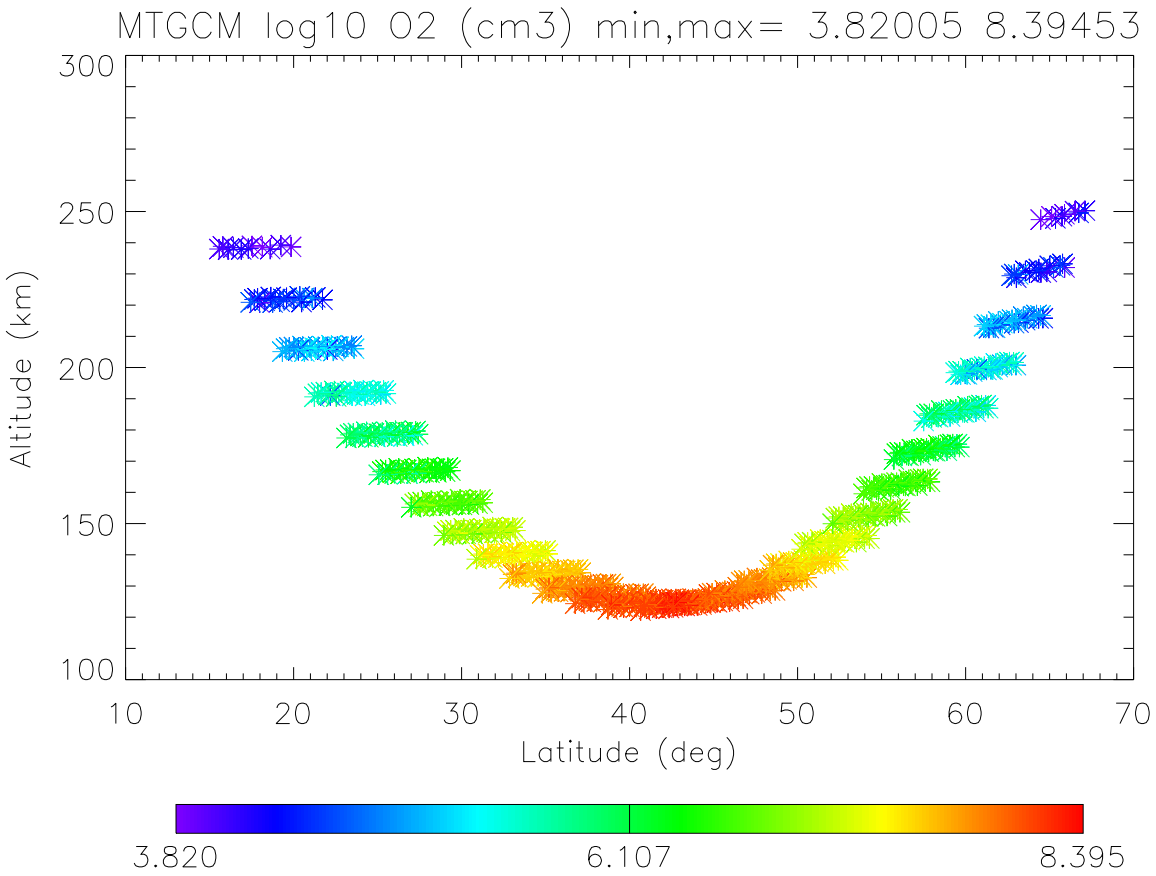

MTGCM TN (deg K) min,max= 68.7670 208.858
300
250
200
150
100
Altitude (km)
10
20
30
40
50
60
70
Latitude (deg)
68.77
138.8
208.9

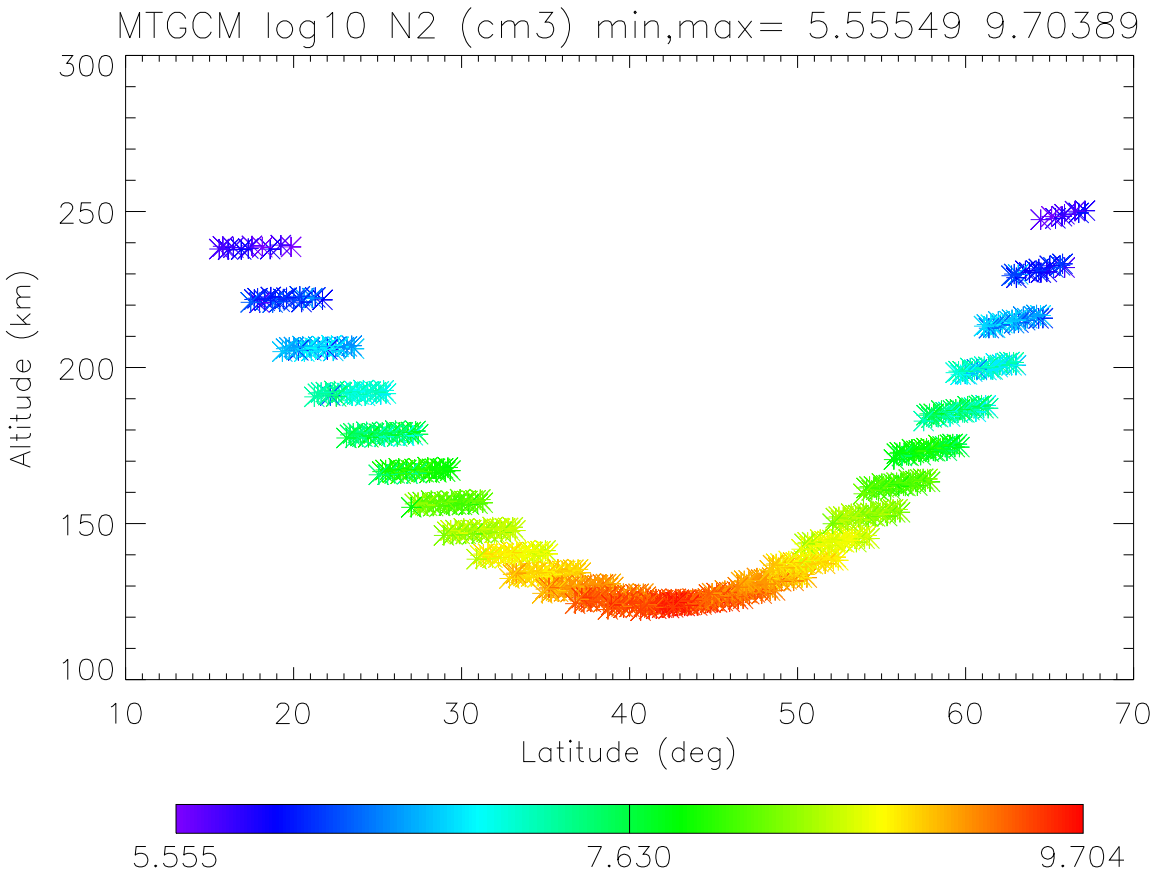

MTGCM UN (m/s) min,max= −207.196 114.407
300
250
200
150
100
Altitude (km)
10
20
30
40
50
60
70
Latitude (deg)
−207.2
−46.39
114.4

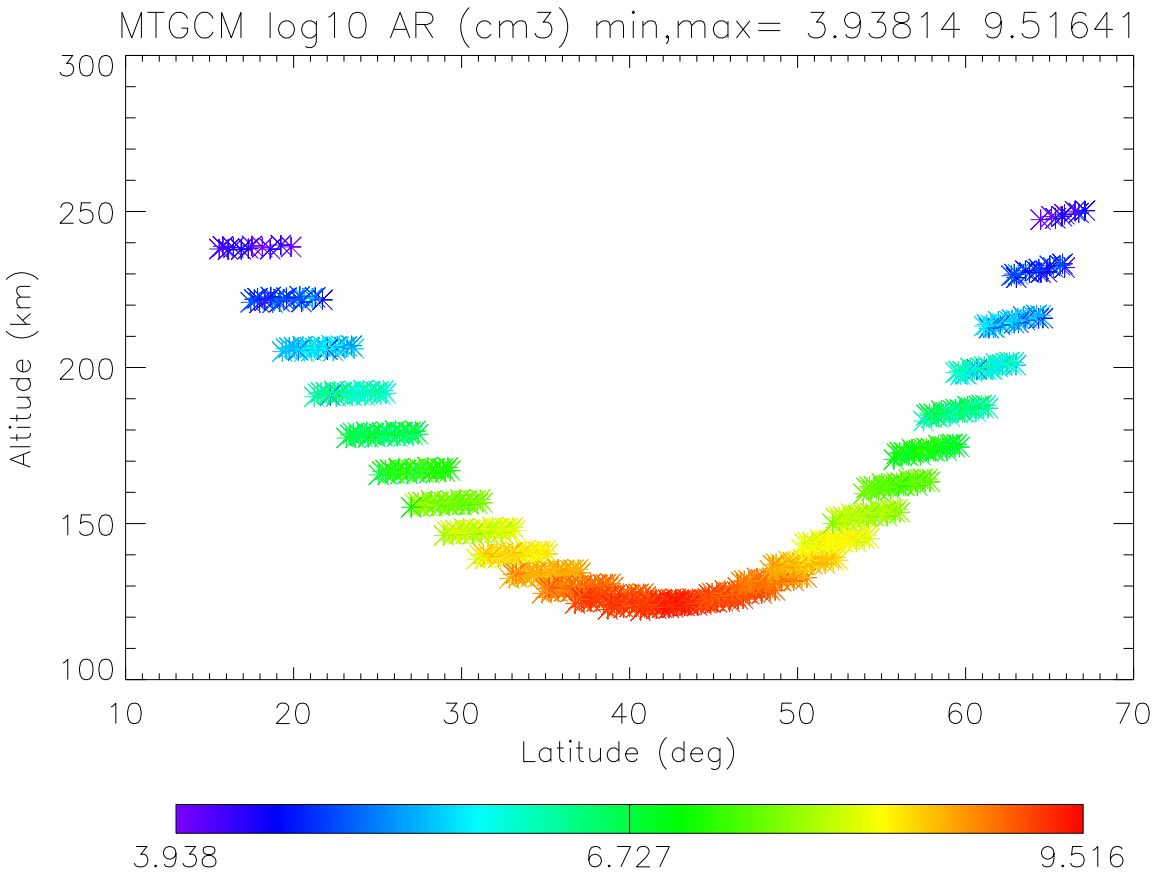

MTGCM VN (m/s) min,max= −149.867 135.343
300
250
200
150
100
Altitude (km)
10
20
30
40
50
60
70
Latitude (deg)
−149.9
−7.262
135.3

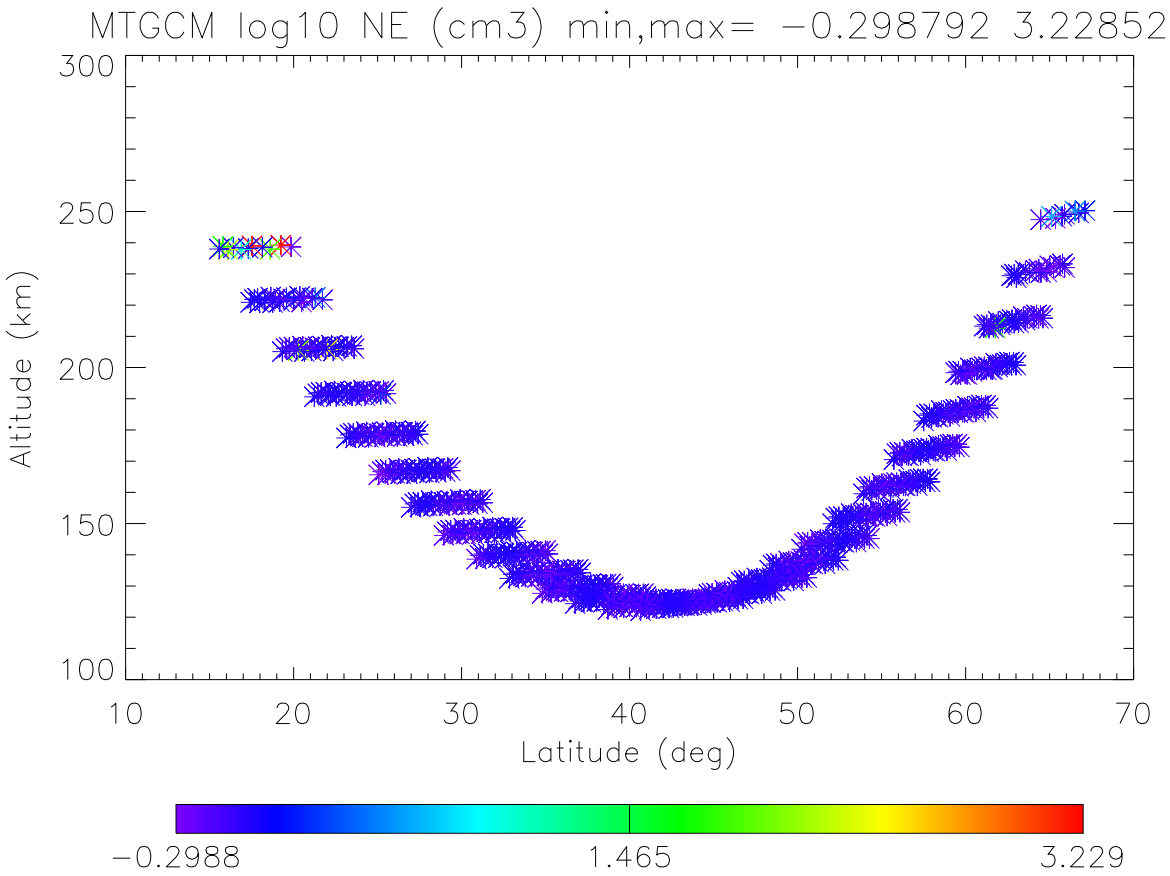

MTGCM log10 O1 (cm3) min,max= 6.65378 9.17894
300
250
200
150
100
Altitude (km)
10
20
30
40
50
60
70
Latitude (deg)
6.654
7.916
9.179

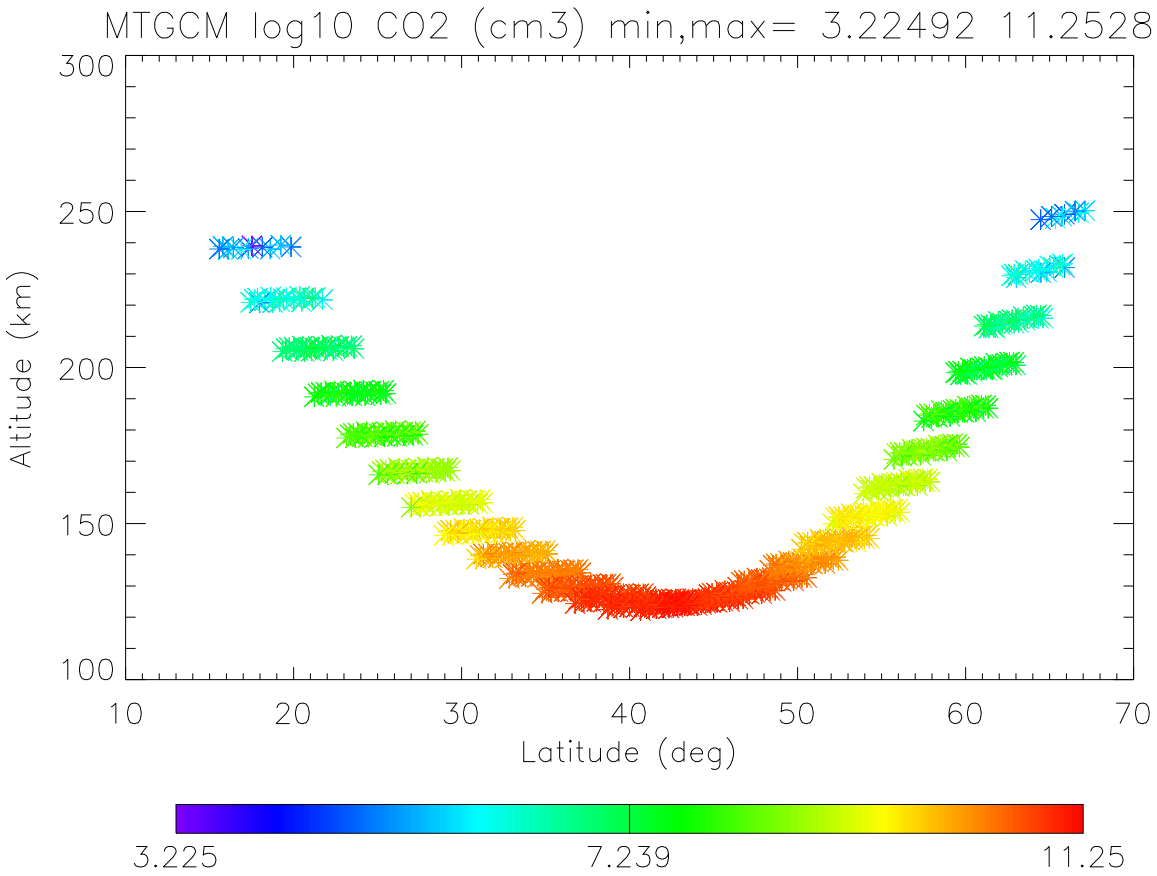

MTGCM log10 CO (cm3) min,max= 5.35808 9.22007
300
250
200
150
100
Altitude (km)
10
20
30
40
50
60
70
Latitude (deg)
5.358
7.289
9.220

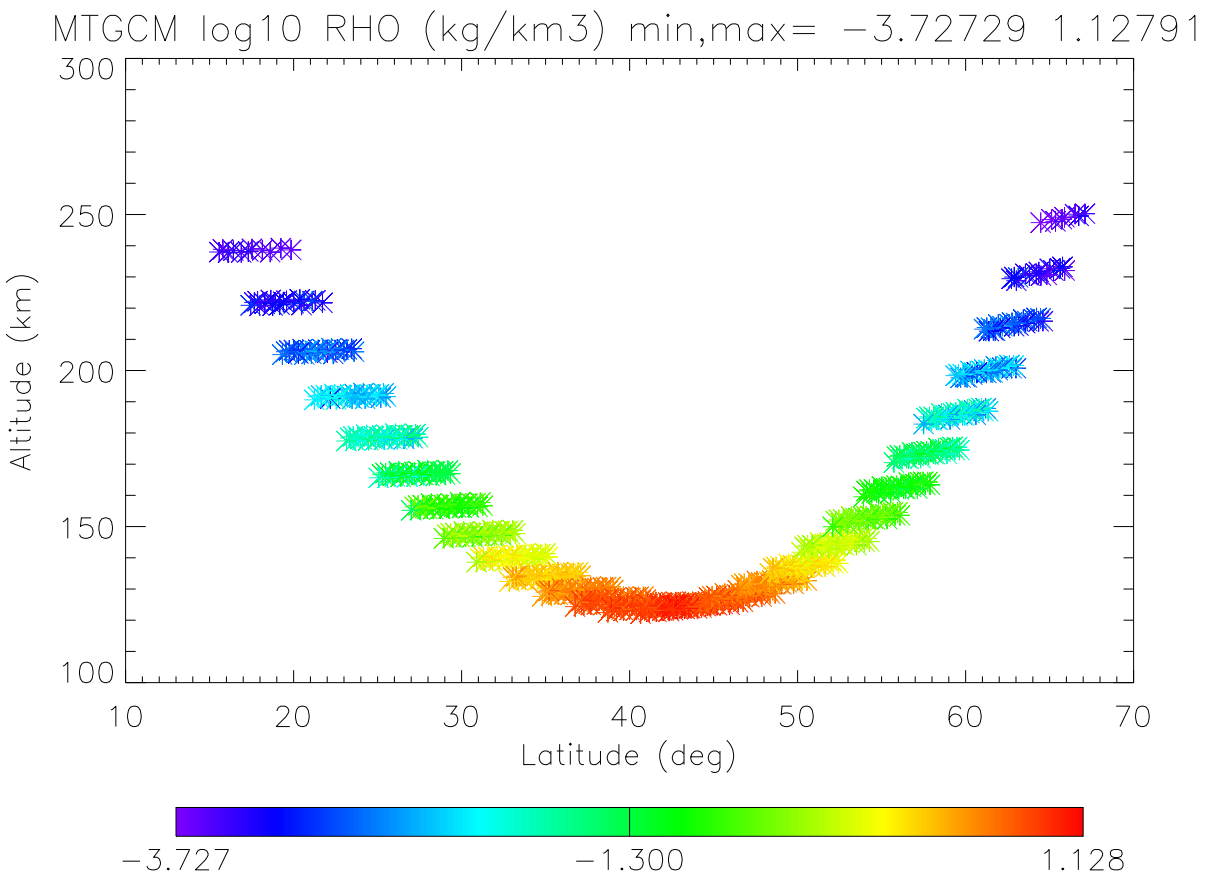

MTGCM log10 O2 (cm3) min,max= 3.82005 8.39453
300
250
200
150
100
Altitude (km)
10
20
30
40
50
60
70
Latitude (deg)
3.820
6.107
8.395


MTGCM log10 N2 (cm3) min,max= 5.55549 9.70389
Altitude (km)
300
250
200
150
100
10
20
30
40
50
60
70
Latitude (deg)
5.555
7.630
9.704


MTGCM log10 AR (cm3) min,max= 3.93814 9.51641
300
250
200
150
100
Altitude (km)
10
20
30
40
50
60
70
Latitude (deg)
3.938
6.727
9.516


MTGCM log10 NE (cm3) min,max= −0.298792 3.22852
300
250
200
150
100
Altitude (km)
10
20
30
40
50
60
70
Latitude (deg)
−0.2988
1.465
3.229


MTGCM log10 CO2 (cm3) min,max= 3.22492 11.2528
300
250
200
150
100
Altitude (km)
10
20
30
40
50
60
70
Latitude (deg)
3.225
7.239
11.25


MTGCM log10 RHO (kg/km3) min,max= −3.72729 1.12791
Altitude (km)
300
250
200
150
100
10
20
30
40
50
60
70
Latitude (deg)
−3.727
−1.300
1.128