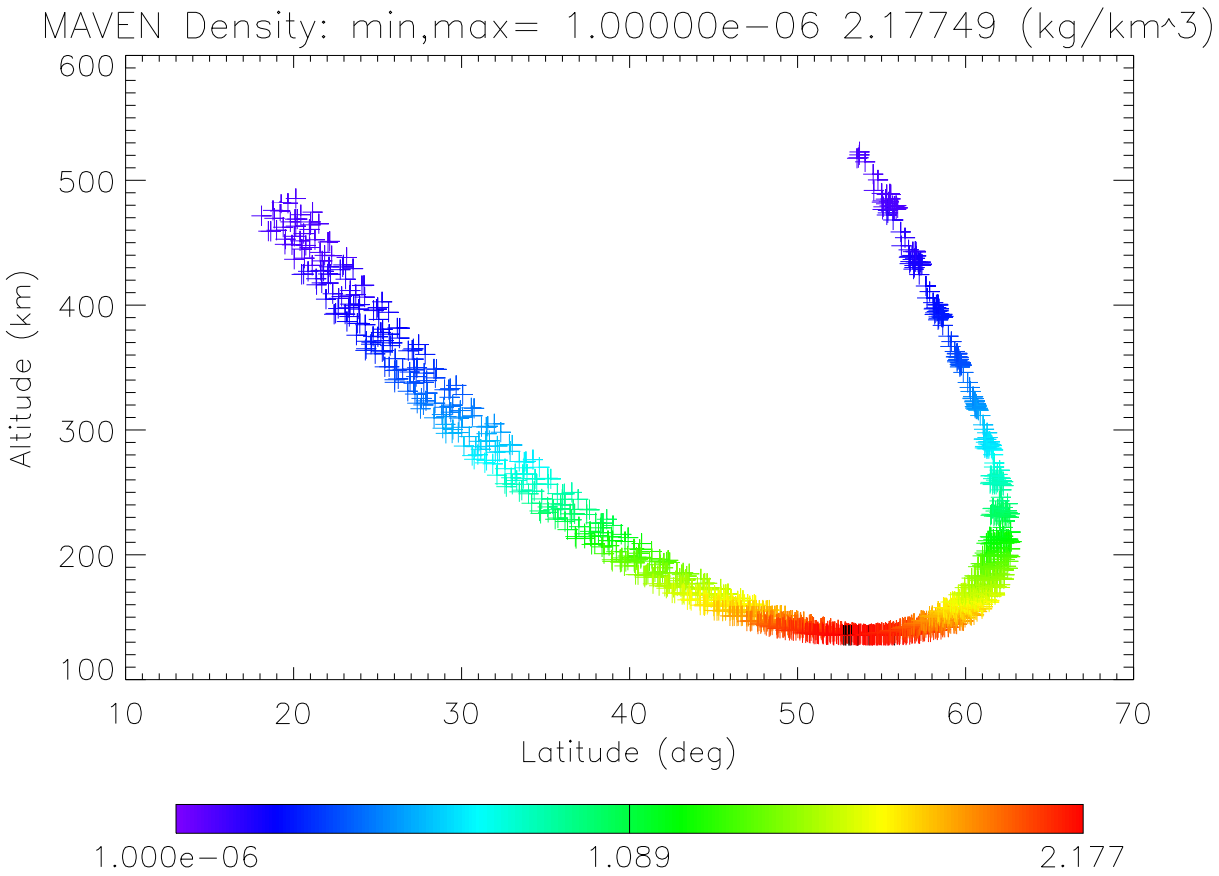
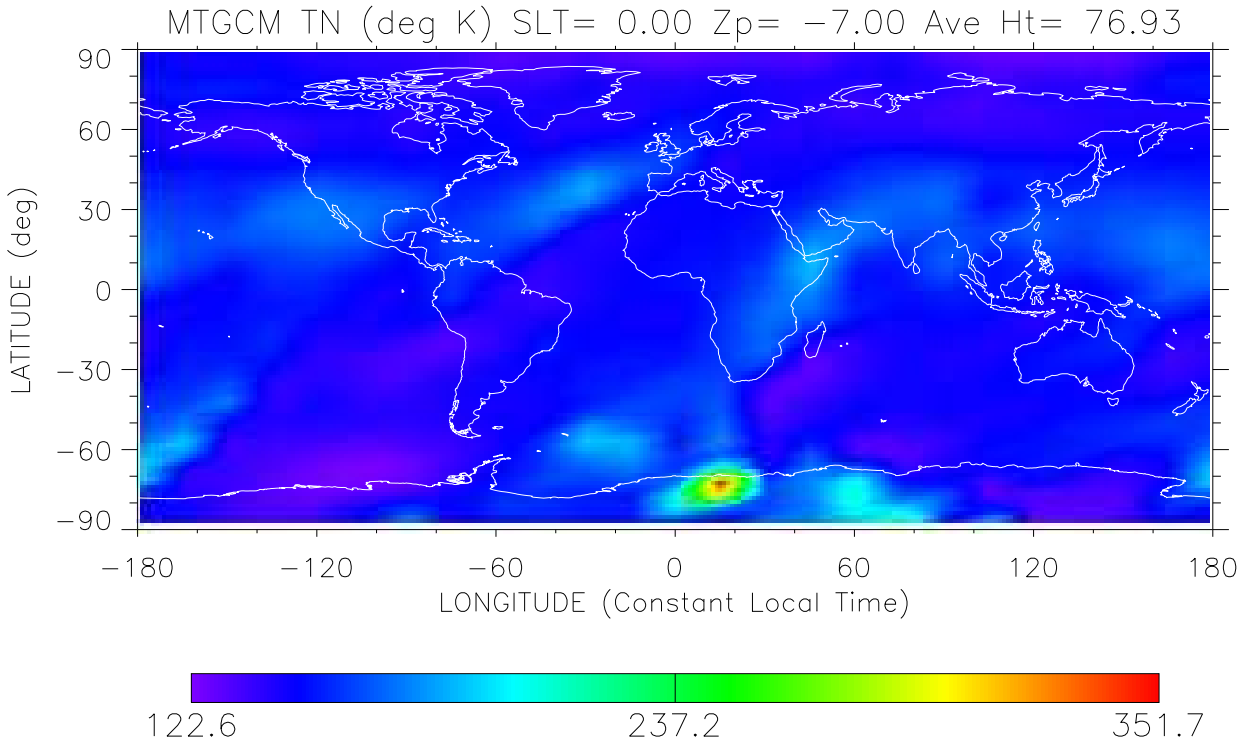
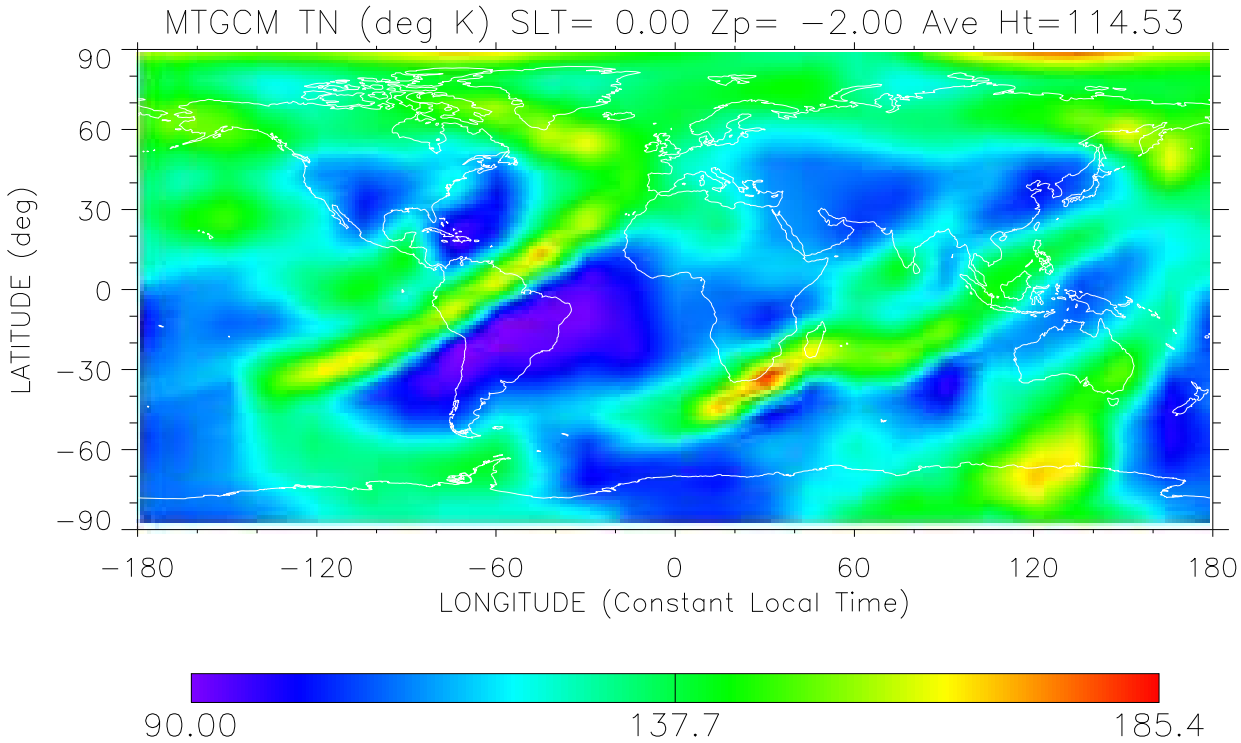
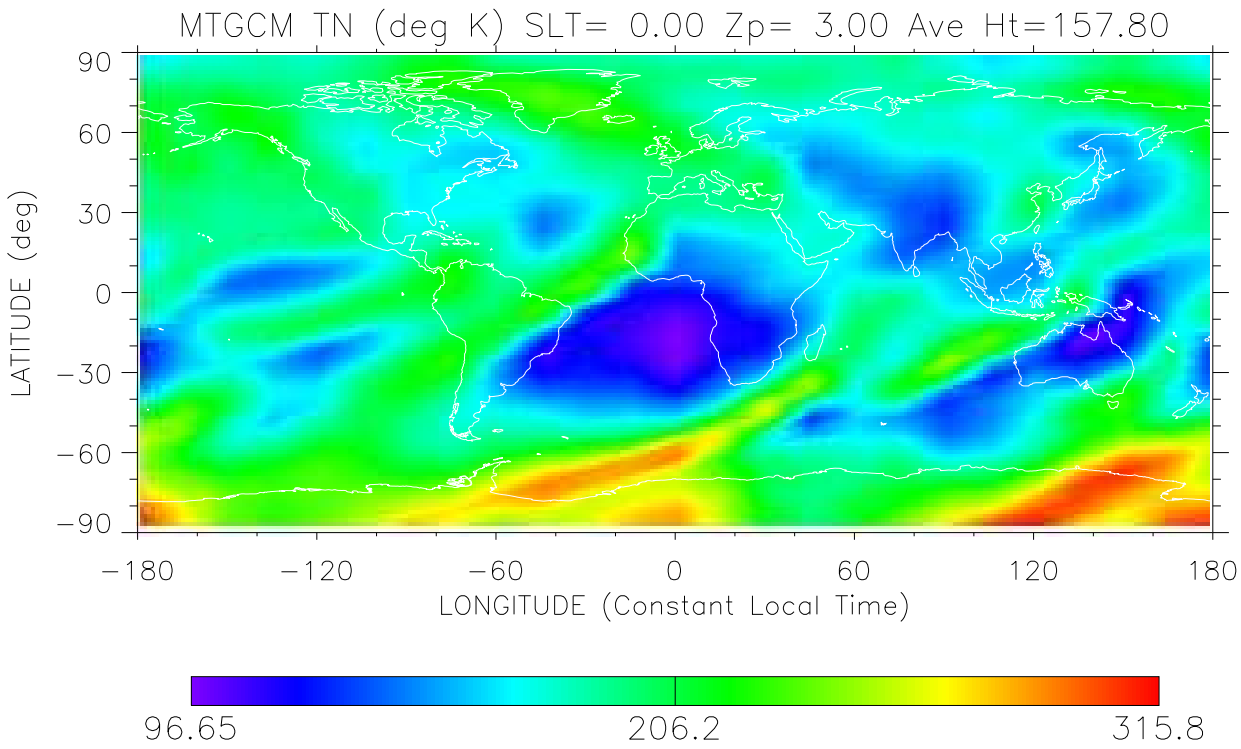
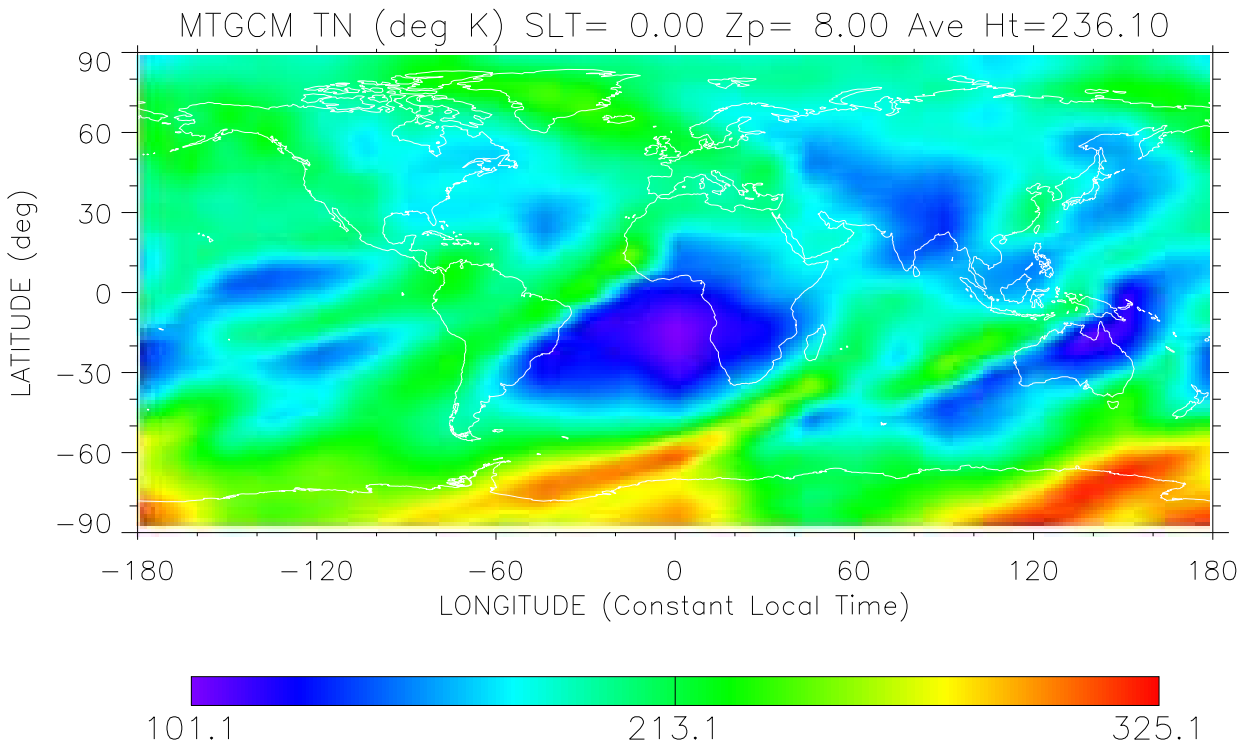
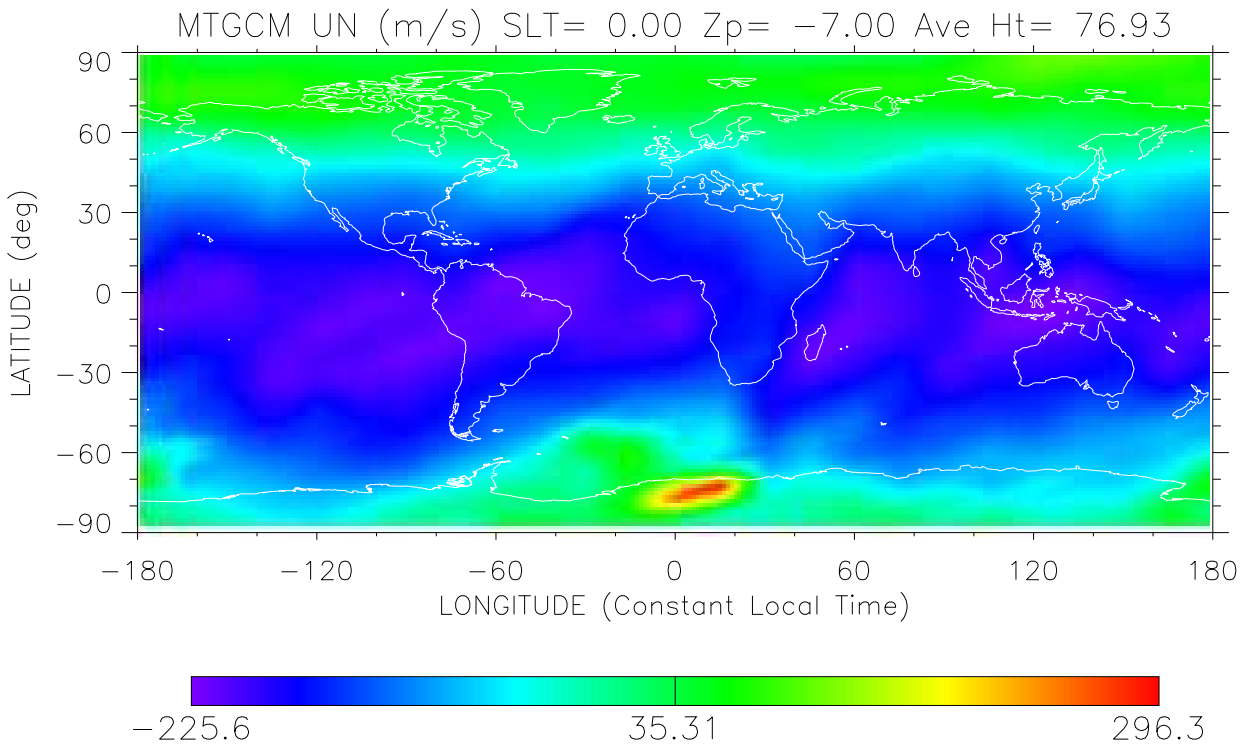

MAVEN Density: min,max= 1.00000e−06 2.17749 (kg/km^3)
Altitude (km)
600
500
400
300
200
100
10
20
30
40
50
60
70
Latitude (deg)
1.000e−06
1.089
2.177

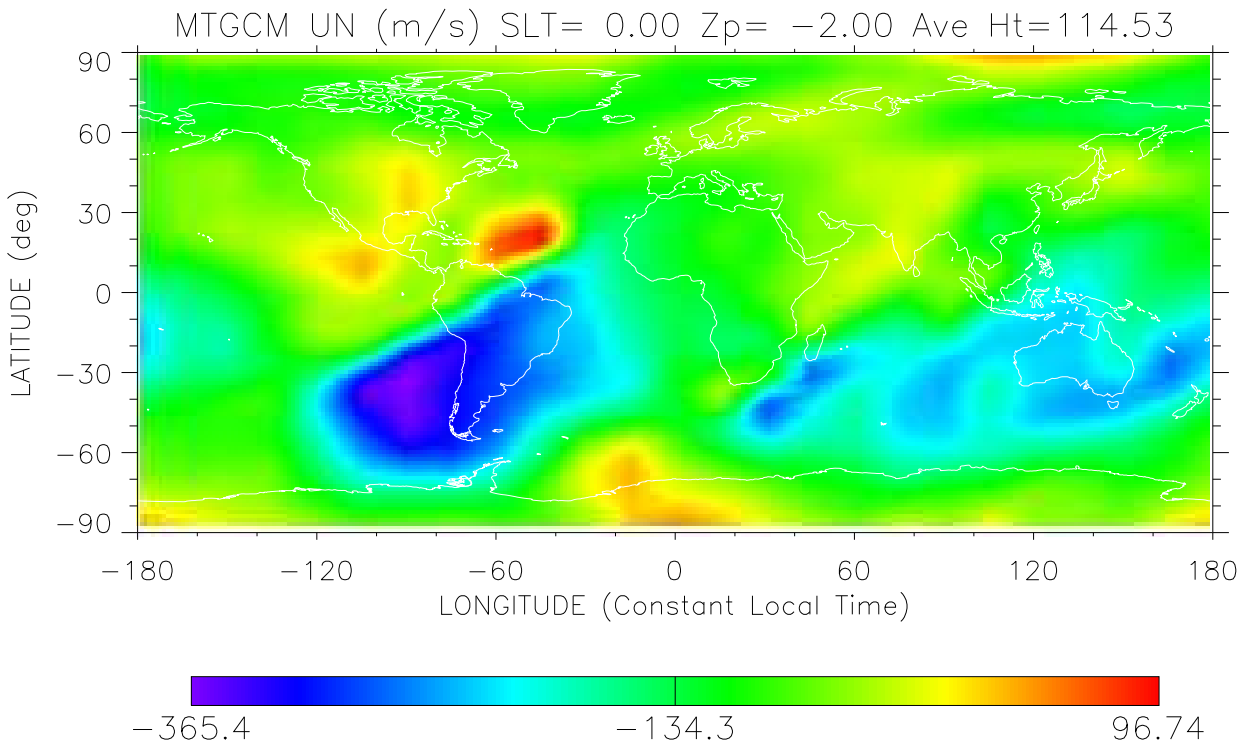

MTGCM TN (deg K) SLT= 0.00 Zp= −7.00 Ave Ht= 76.93
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
122.6
237.2
351.7

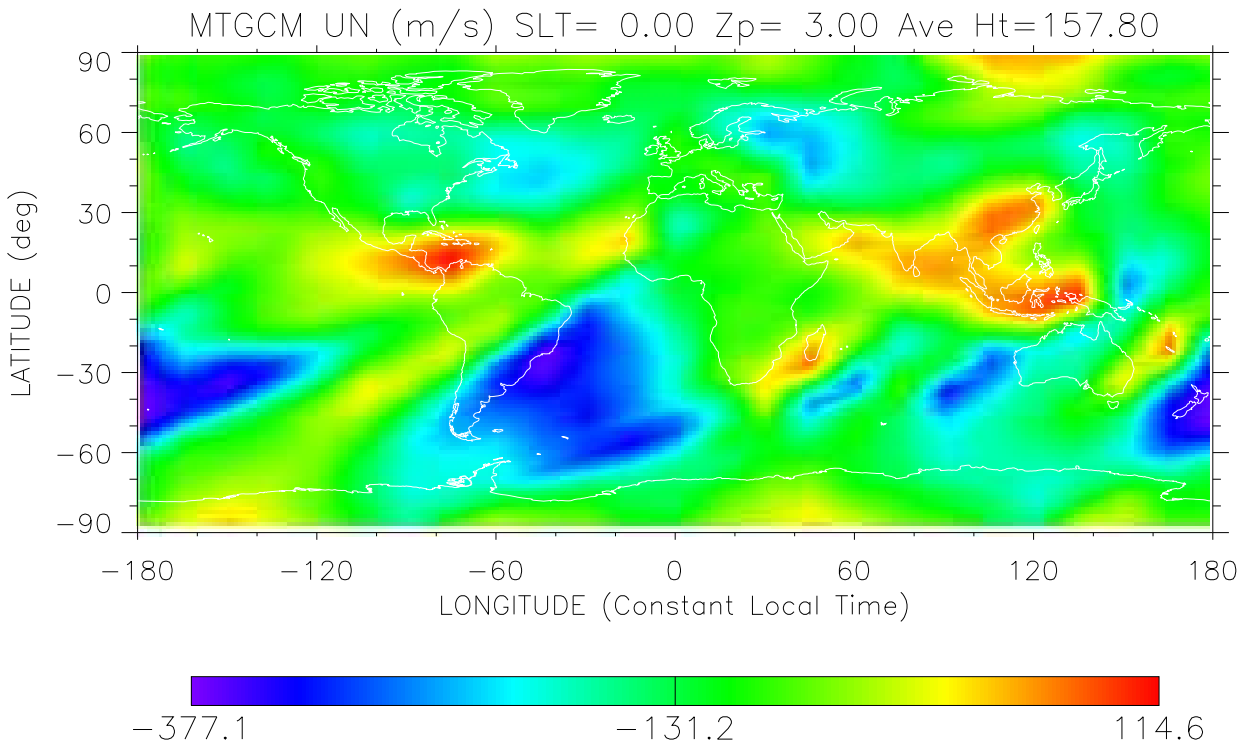

MTGCM TN (deg K) SLT= 0.00 Zp= −2.00 Ave Ht=114.53
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
90.00
137.7
185.4

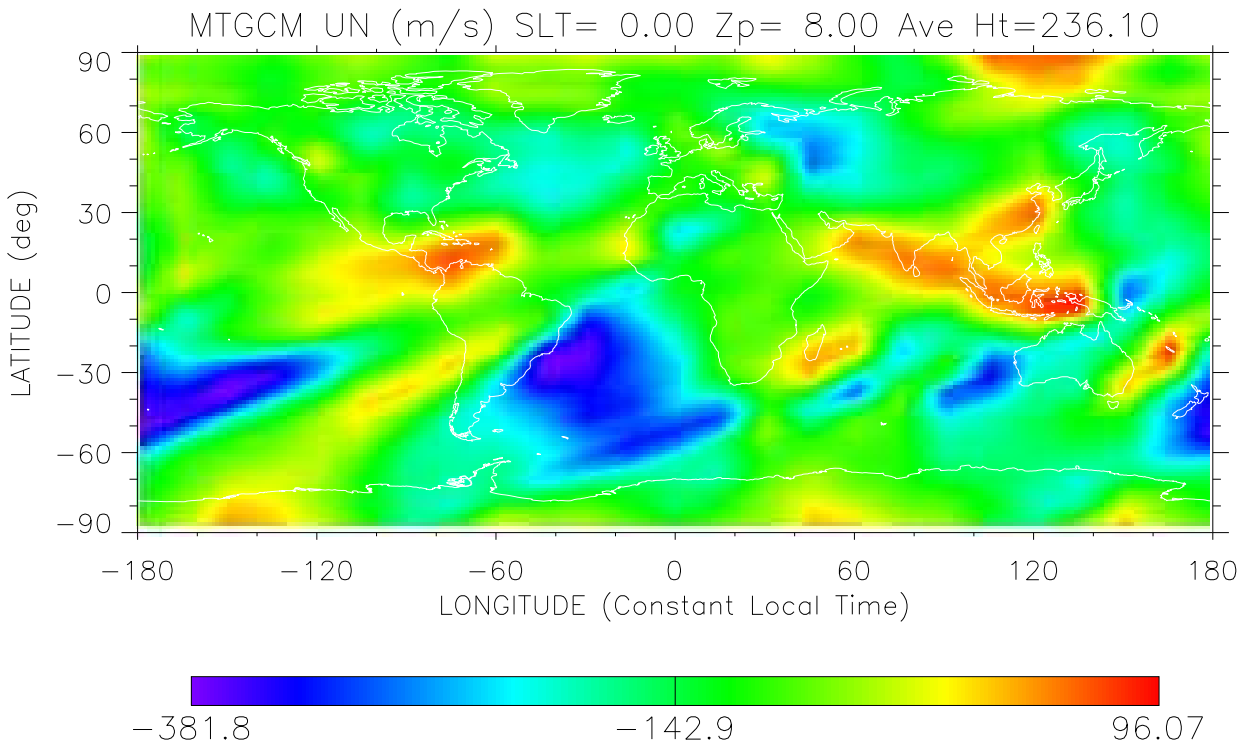

MTGCM TN (deg K) SLT= 0.00 Zp= 3.00 Ave Ht=157.80
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
96.65
206.2
315.8

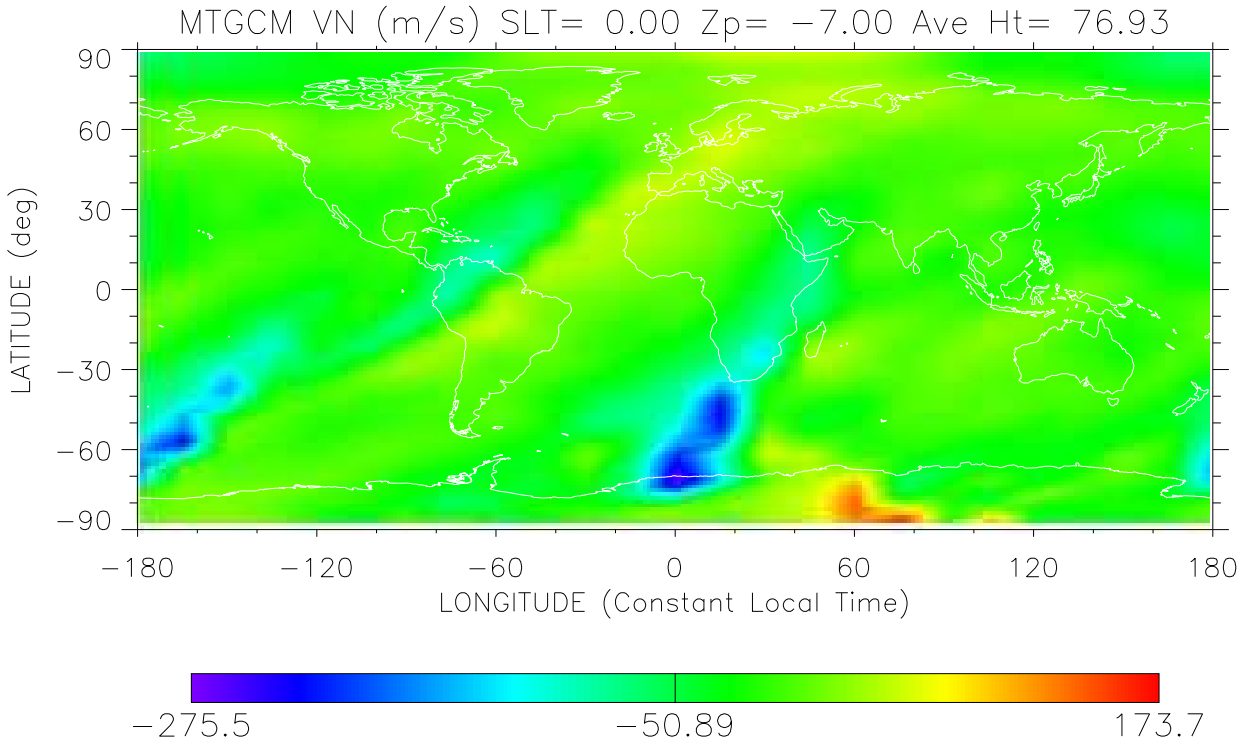

MTGCM TN (deg K) SLT= 0.00 Zp= 8.00 Ave Ht=236.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
101.1
213.1
325.1

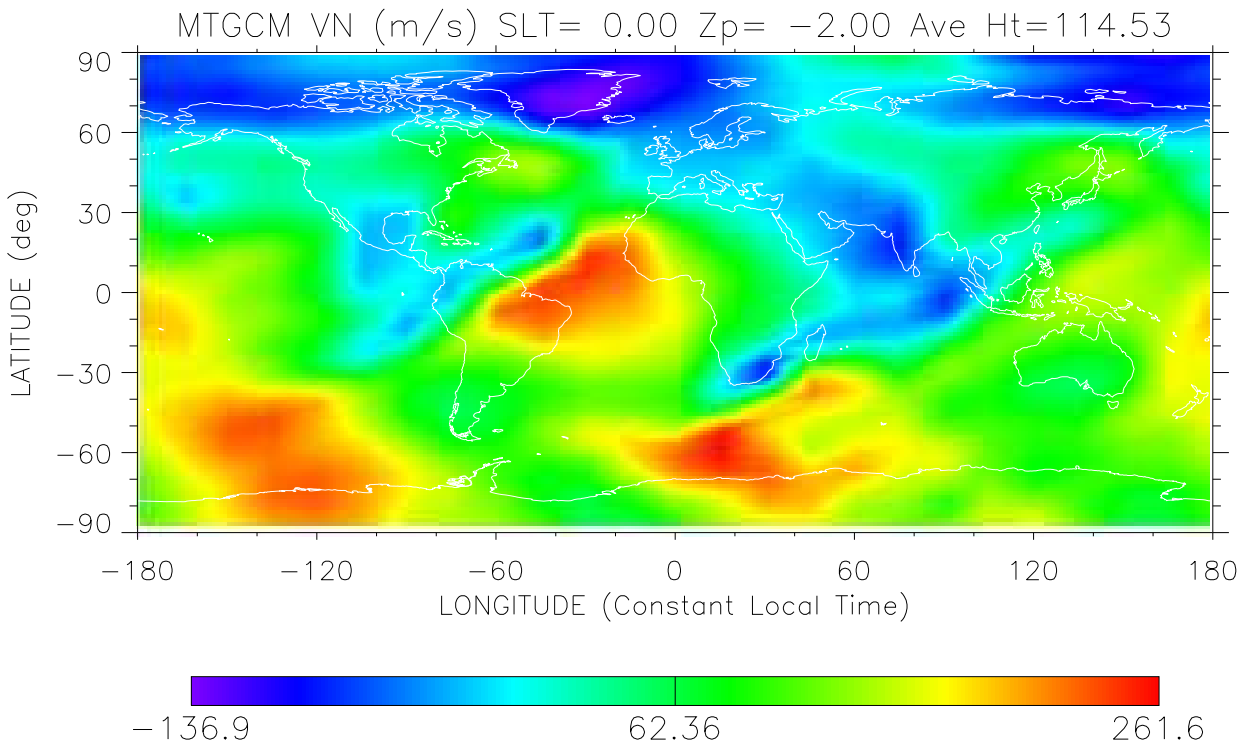

MTGCM UN (m/s) SLT= 0.00 Zp= −7.00 Ave Ht= 76.93
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−225.6
35.31
296.3

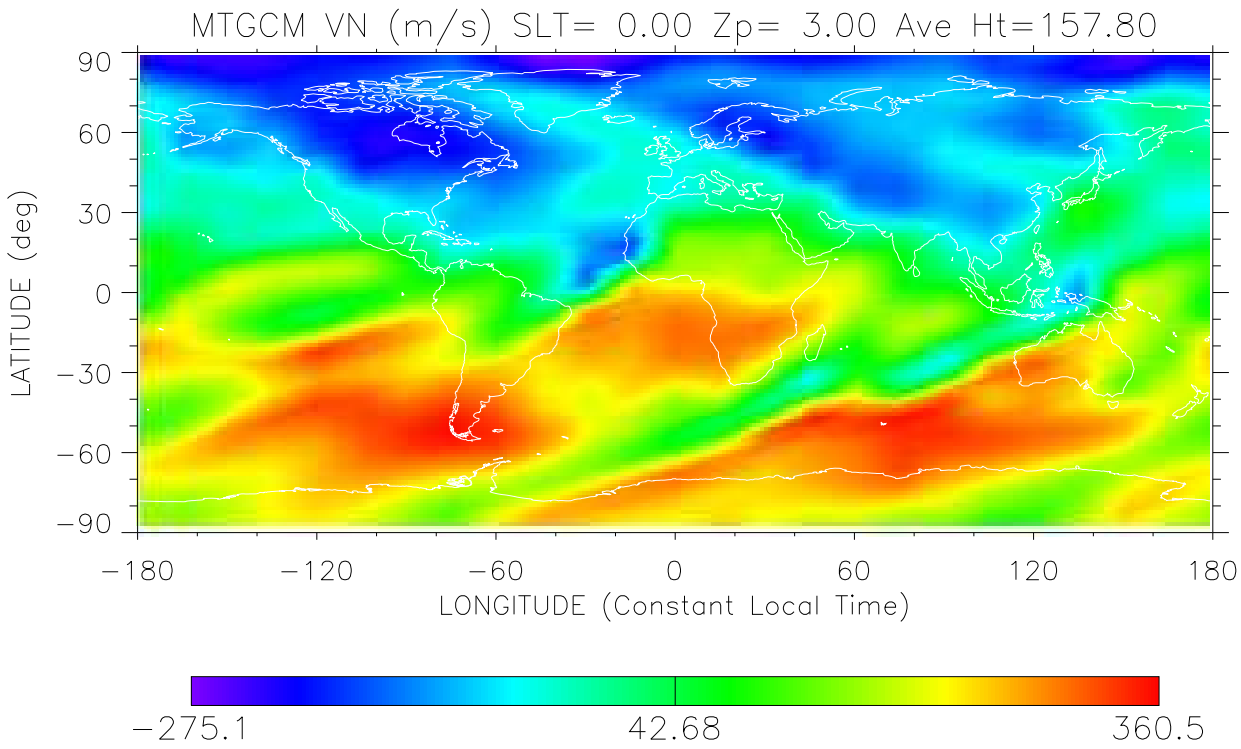

MTGCM UN (m/s) SLT= 0.00 Zp= −2.00 Ave Ht=114.53
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−365.4
−134.3
96.74

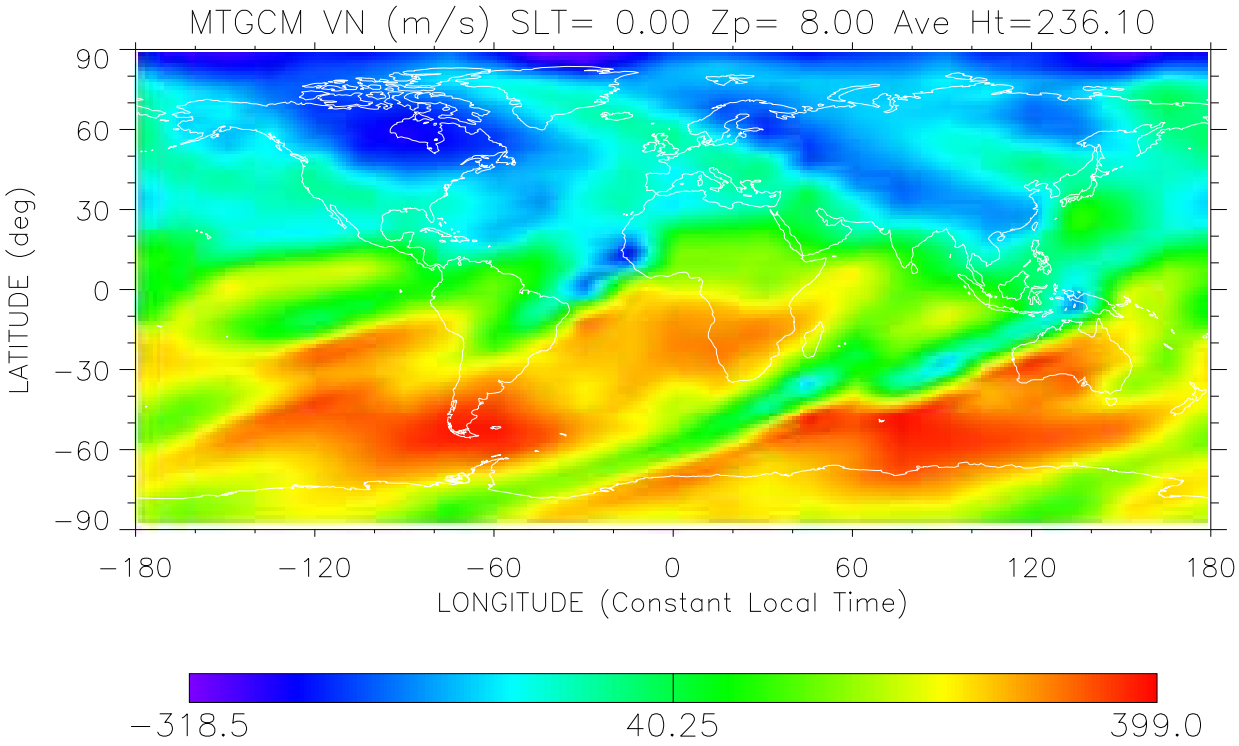

MTGCM UN (m/s) SLT= 0.00 Zp= 3.00 Ave Ht=157.80
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−377.1
−131.2
114.6

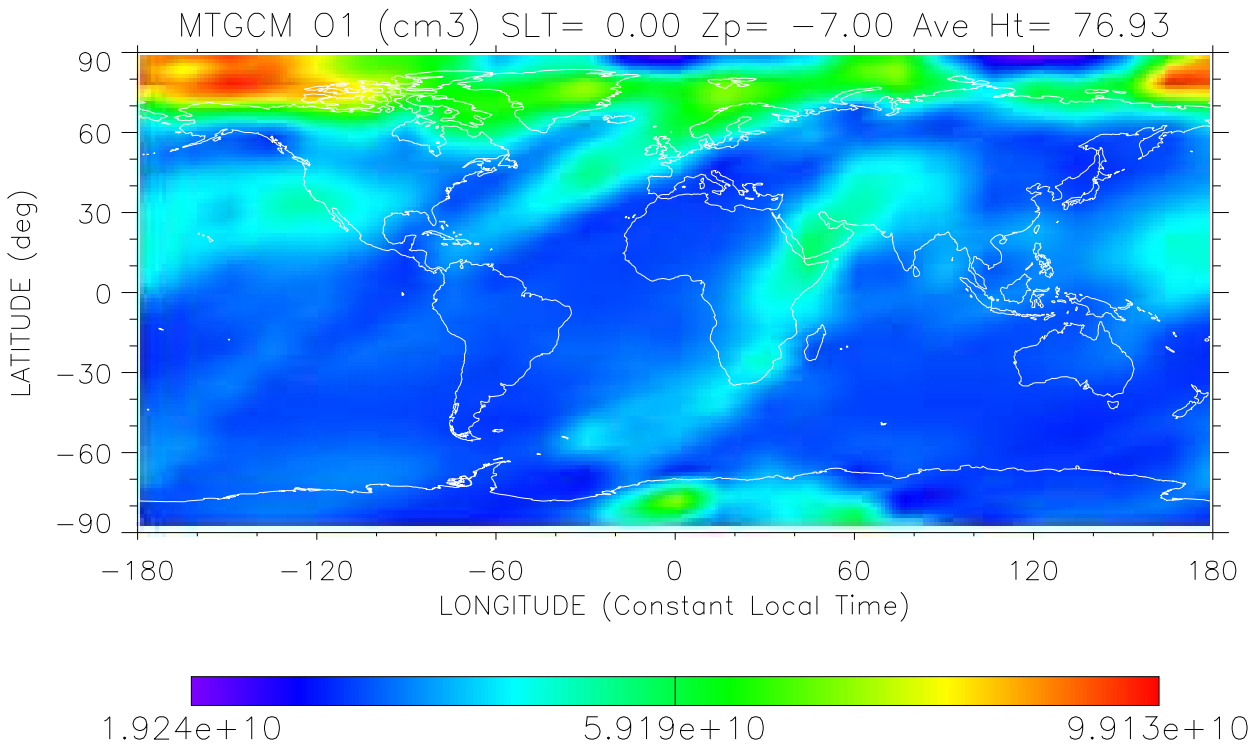

MTGCM UN (m/s) SLT= 0.00 Zp= 8.00 Ave Ht=236.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−381.8
−142.9
96.07

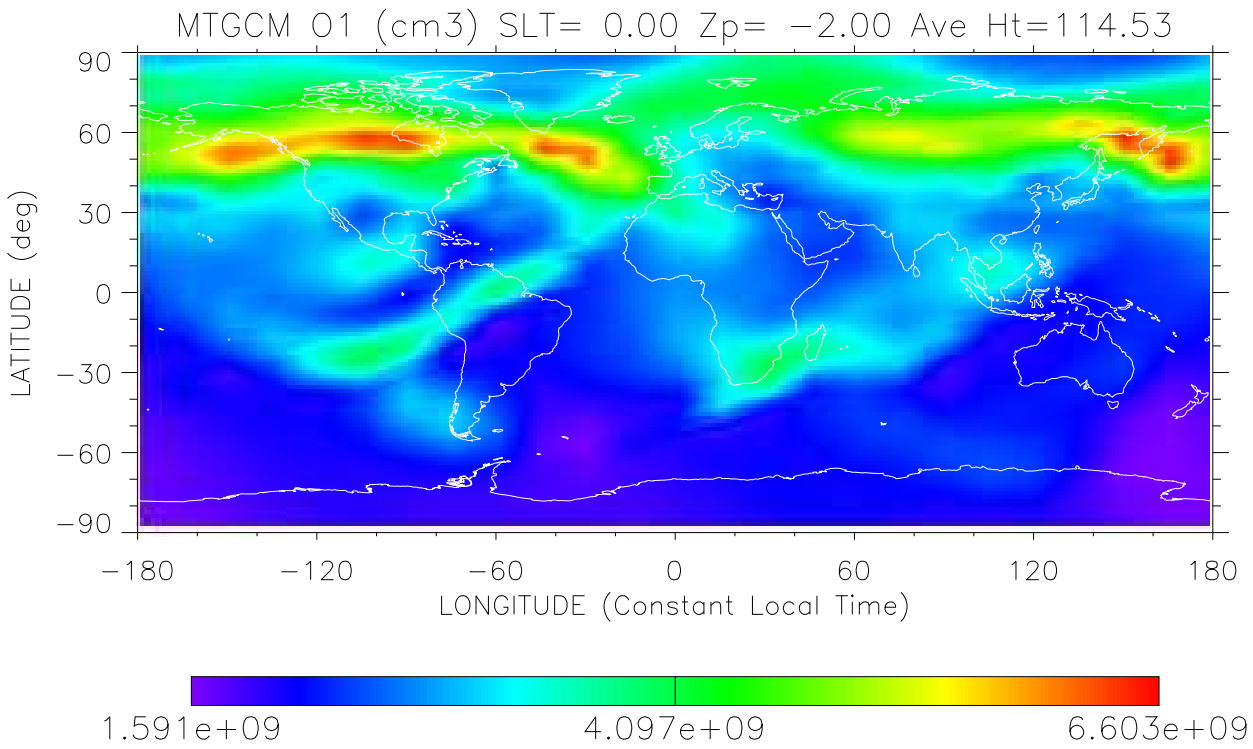

MTGCM VN (m/s) SLT= 0.00 Zp= −7.00 Ave Ht= 76.93
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−275.5
−50.89
173.7

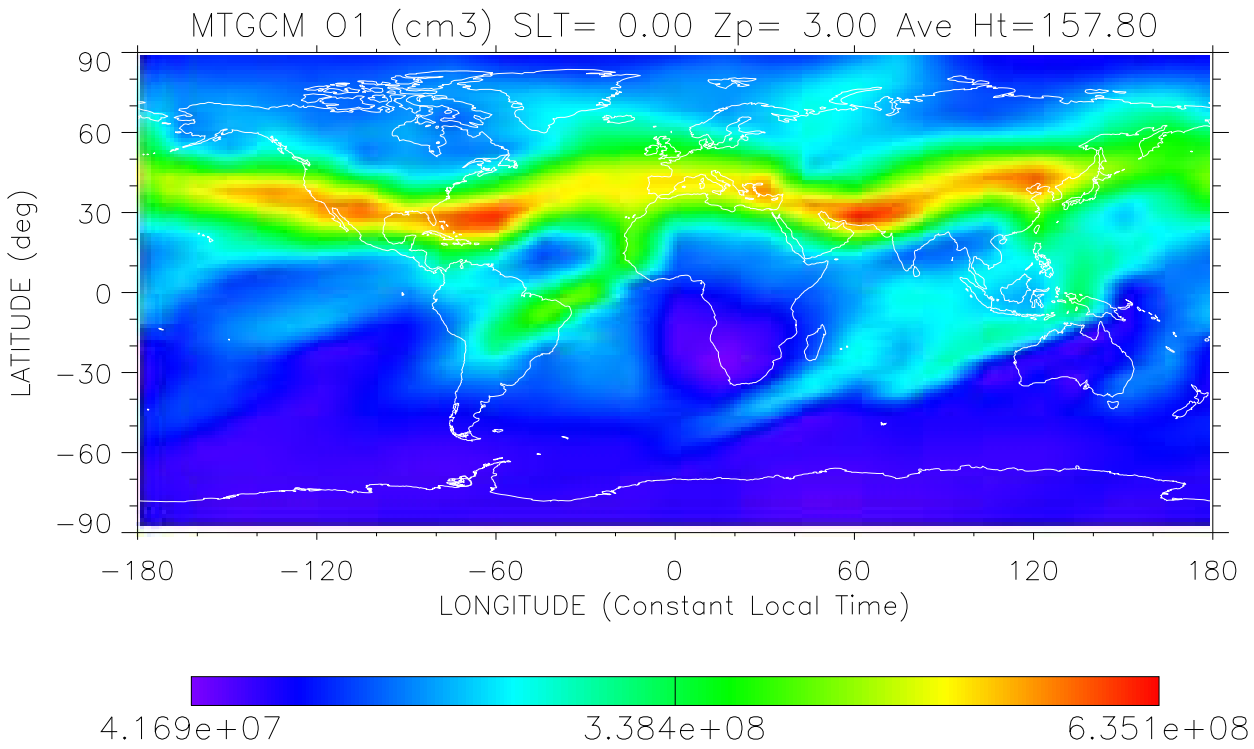

MTGCM VN (m/s) SLT= 0.00 Zp= −2.00 Ave Ht=114.53
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−136.9
62.36
261.6

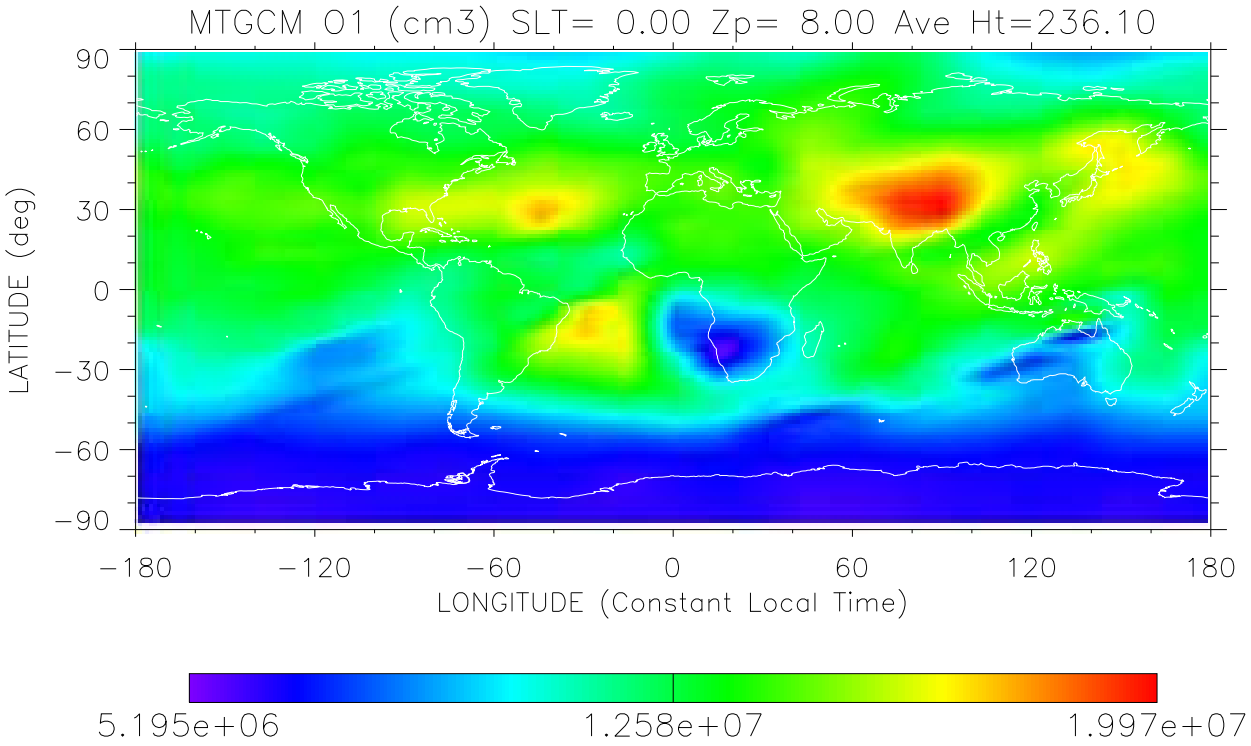

MTGCM VN (m/s) SLT= 0.00 Zp= 3.00 Ave Ht=157.80
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−275.1
42.68
360.5

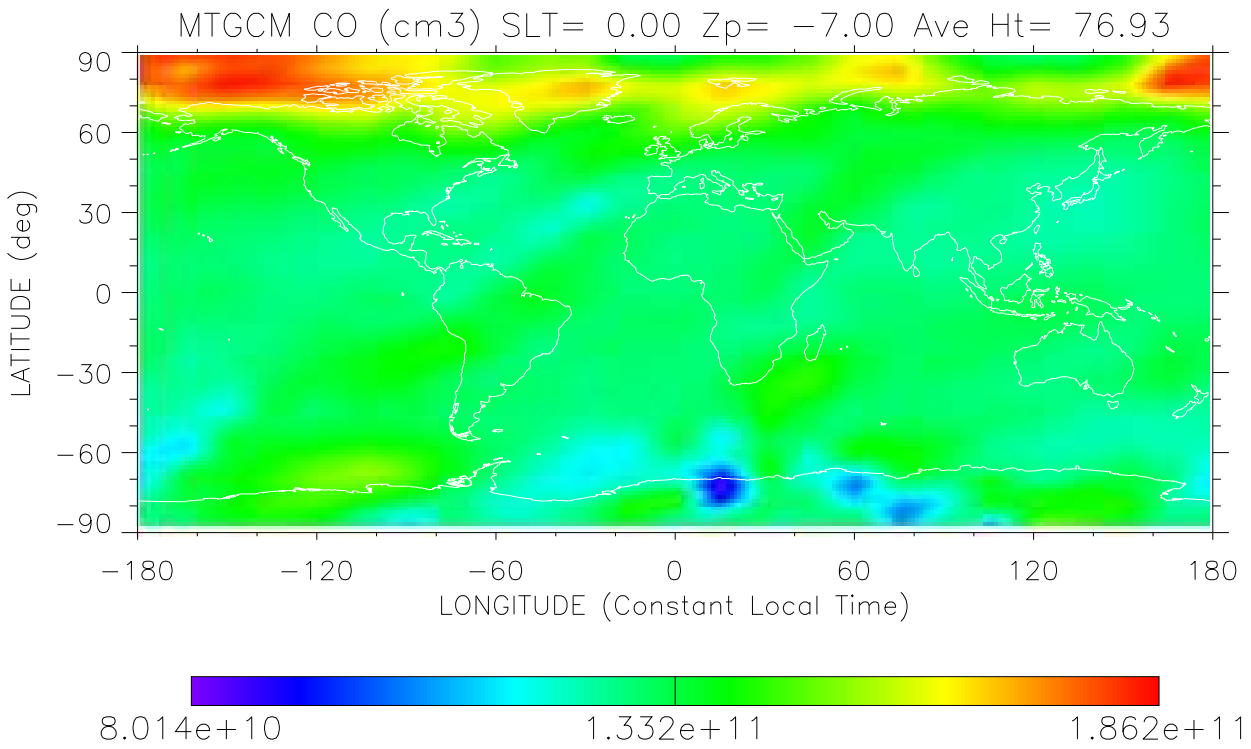

MTGCM VN (m/s) SLT= 0.00 Zp= 8.00 Ave Ht=236.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−318.5
40.25
399.0

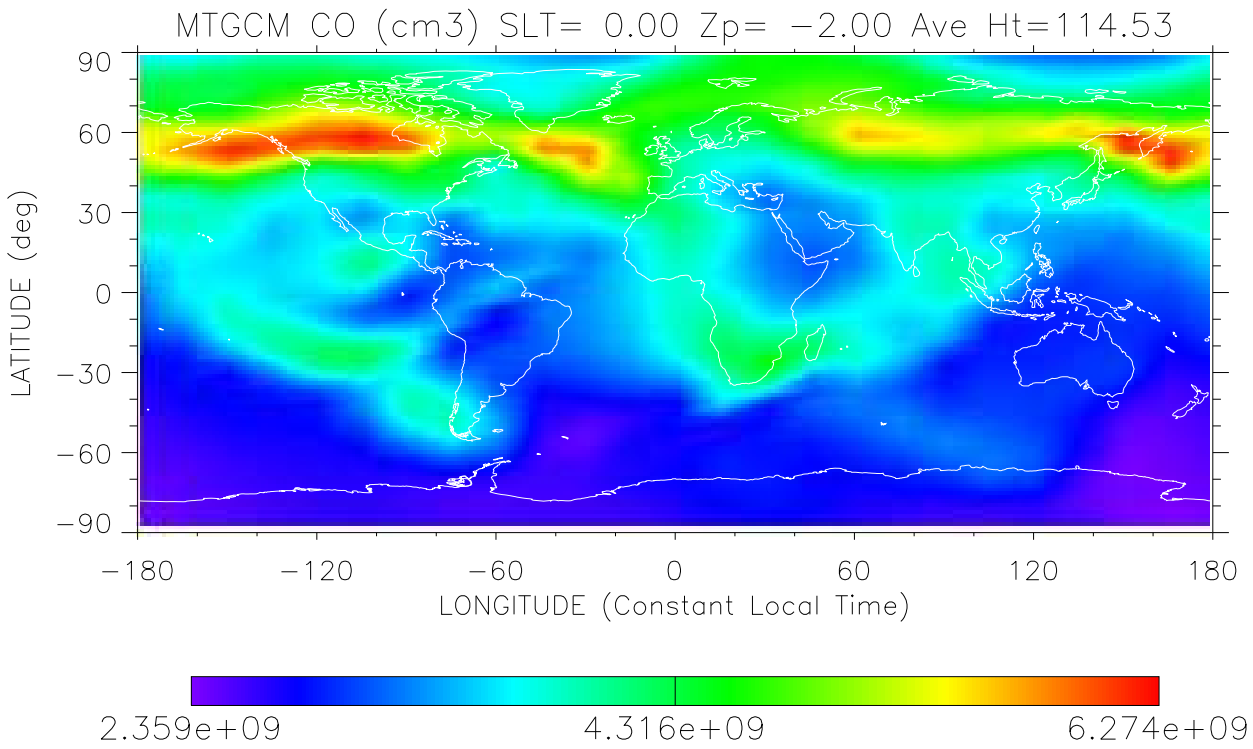

MTGCM O1 (cm3) SLT= 0.00 Zp= −7.00 Ave Ht= 76.93
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.924e+10
5.919e+10
9.913e+10

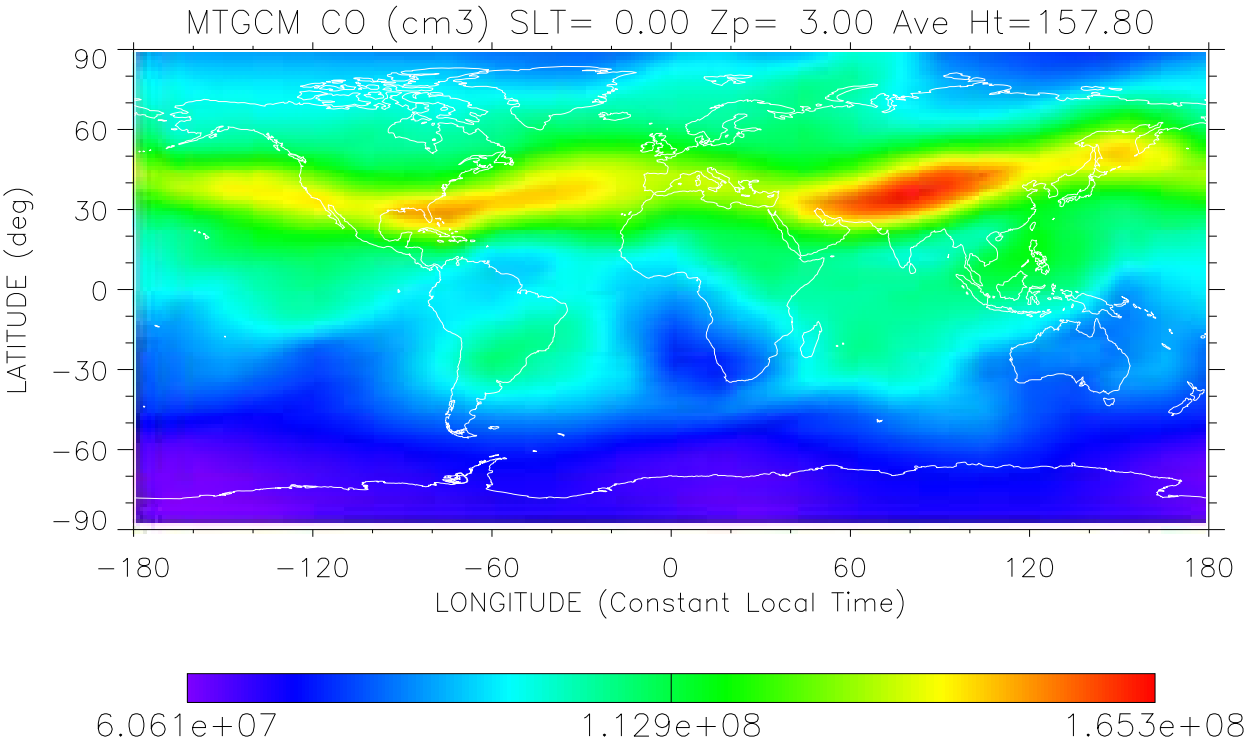

MTGCM O1 (cm3) SLT= 0.00 Zp= −2.00 Ave Ht=114.53
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.591e+09
4.097e+09
6.603e+09

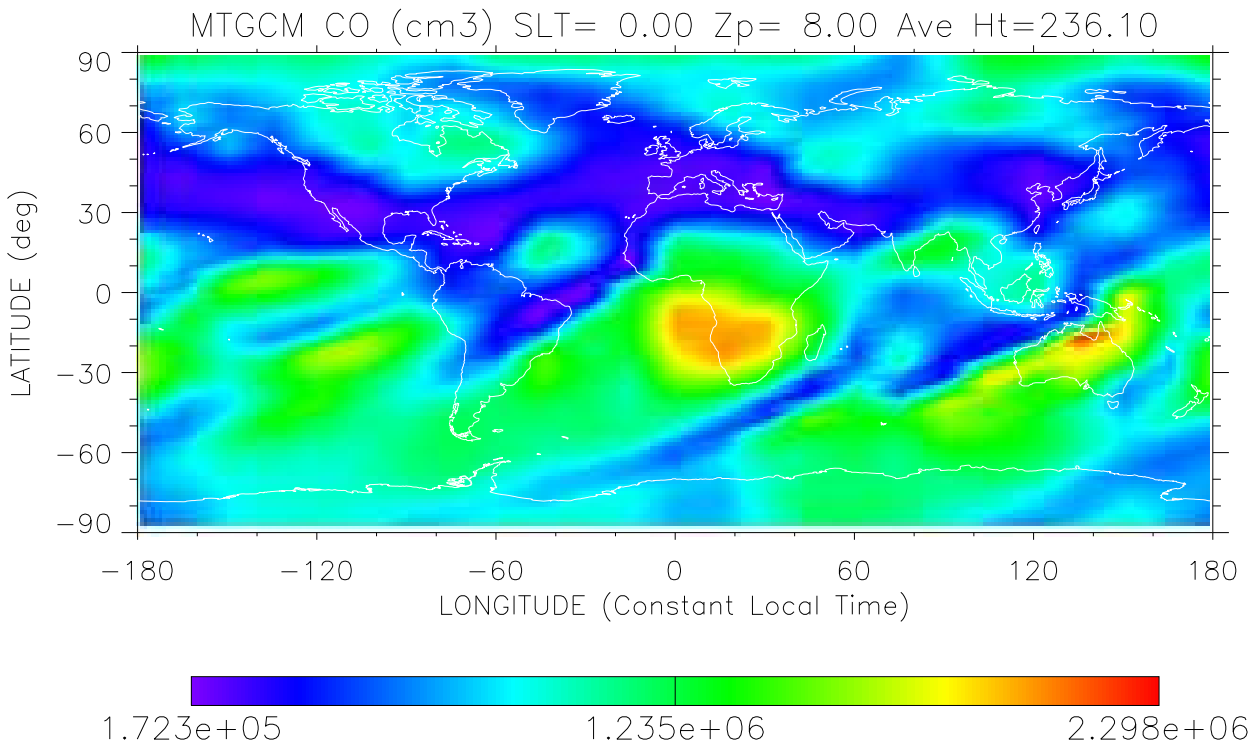

MTGCM O1 (cm3) SLT= 0.00 Zp= 3.00 Ave Ht=157.80
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
4.169e+07
3.384e+08
6.351e+08

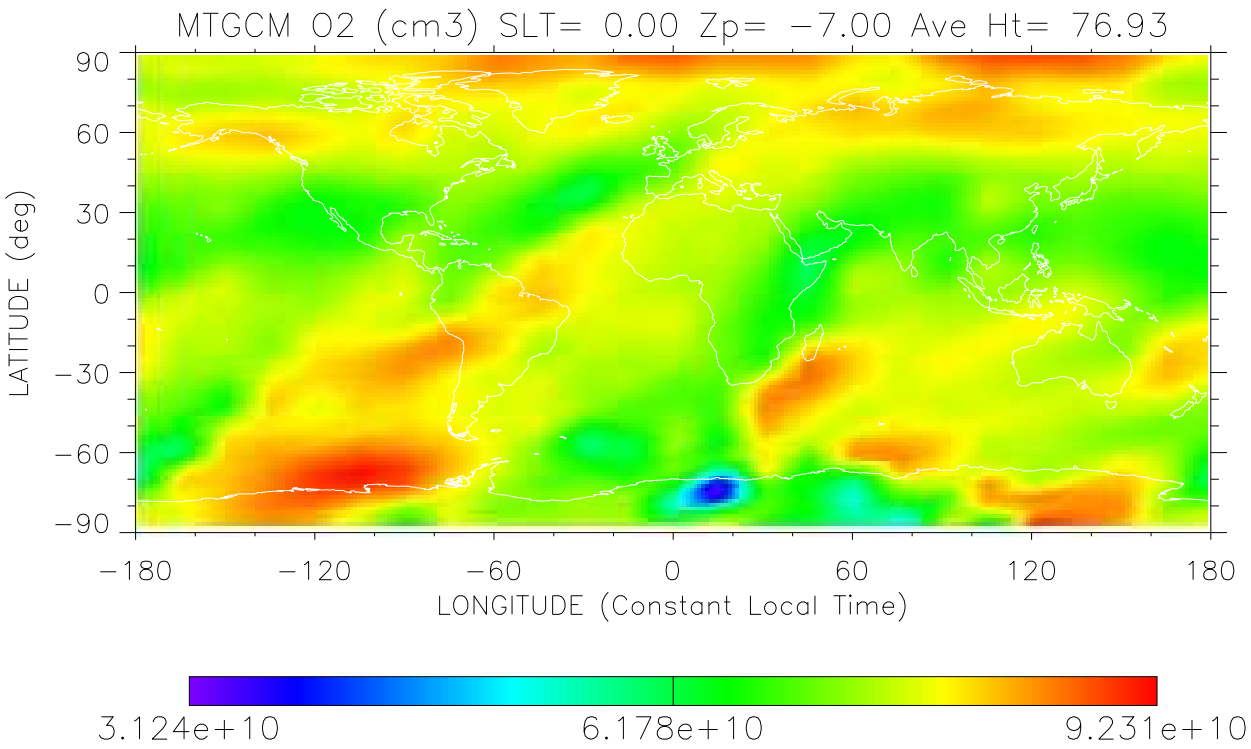

MTGCM O1 (cm3) SLT= 0.00 Zp= 8.00 Ave Ht=236.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
5.195e+06
1.258e+07
1.997e+07

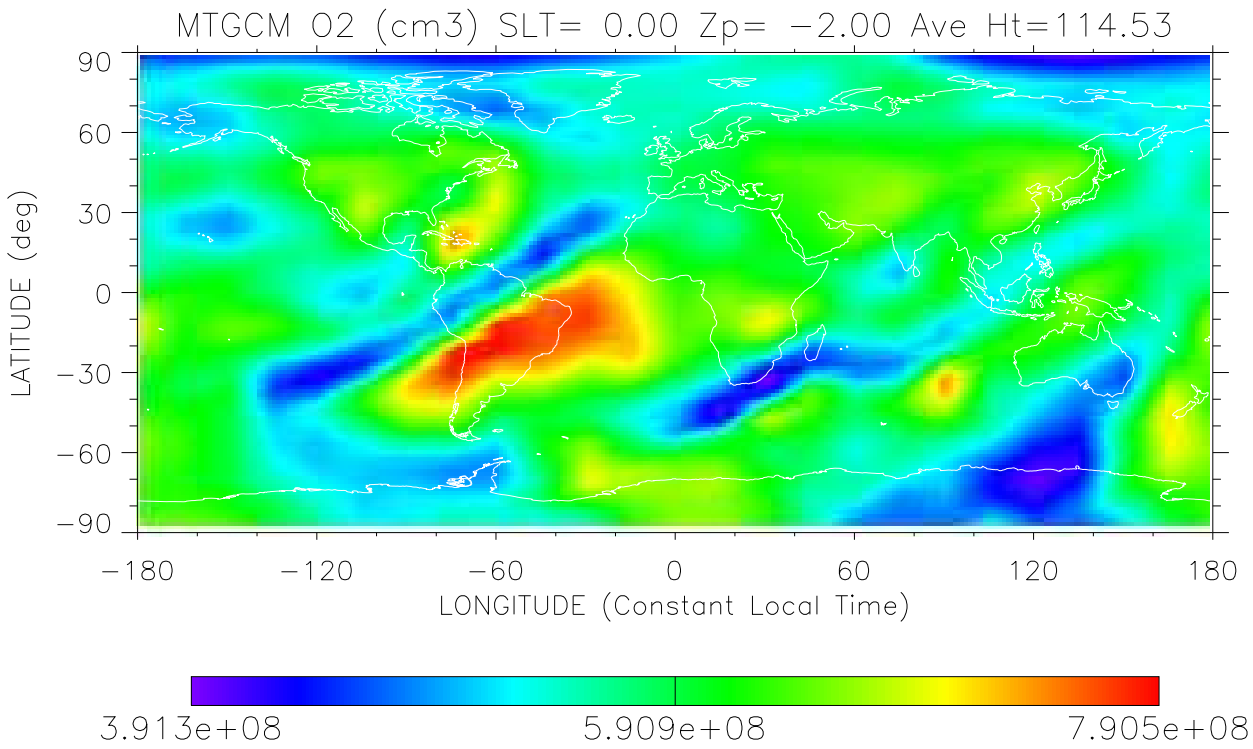

MTGCM CO (cm3) SLT= 0.00 Zp= −7.00 Ave Ht= 76.93
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
8.014e+10
1.332e+11
1.862e+11

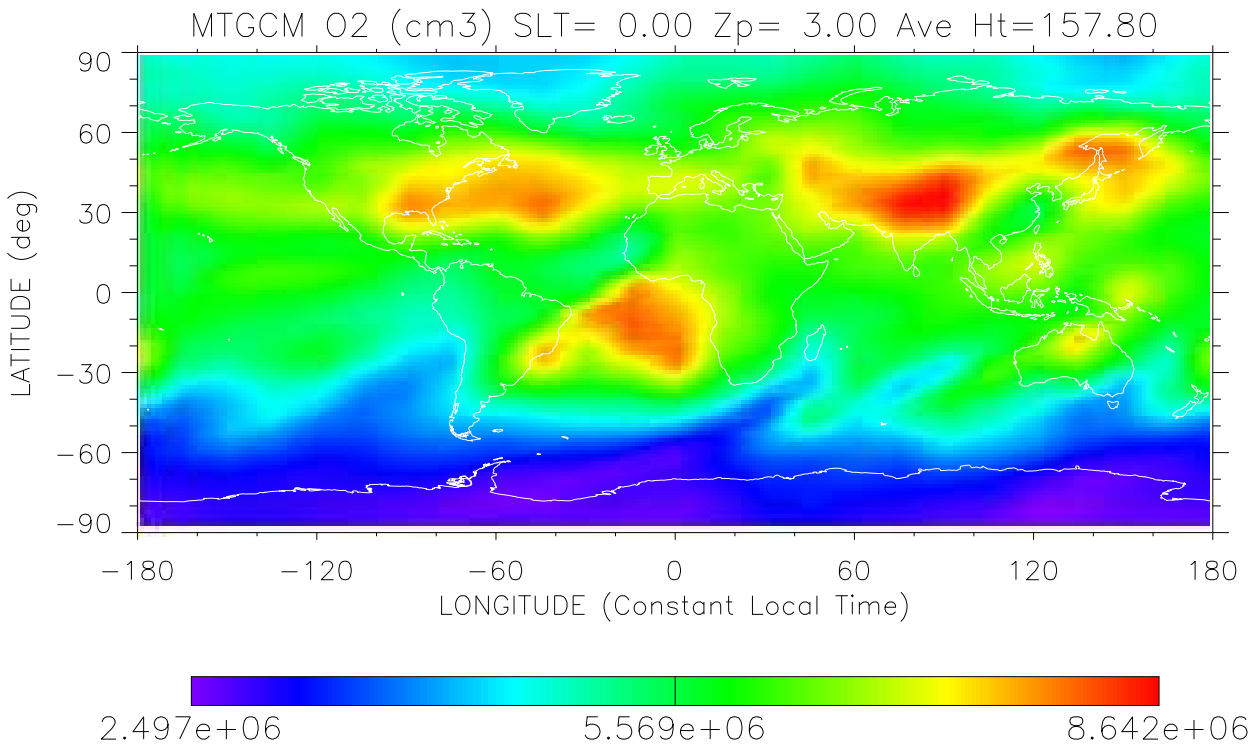

MTGCM CO (cm3) SLT= 0.00 Zp= −2.00 Ave Ht=114.53
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
2.359e+09
4.316e+09
6.274e+09

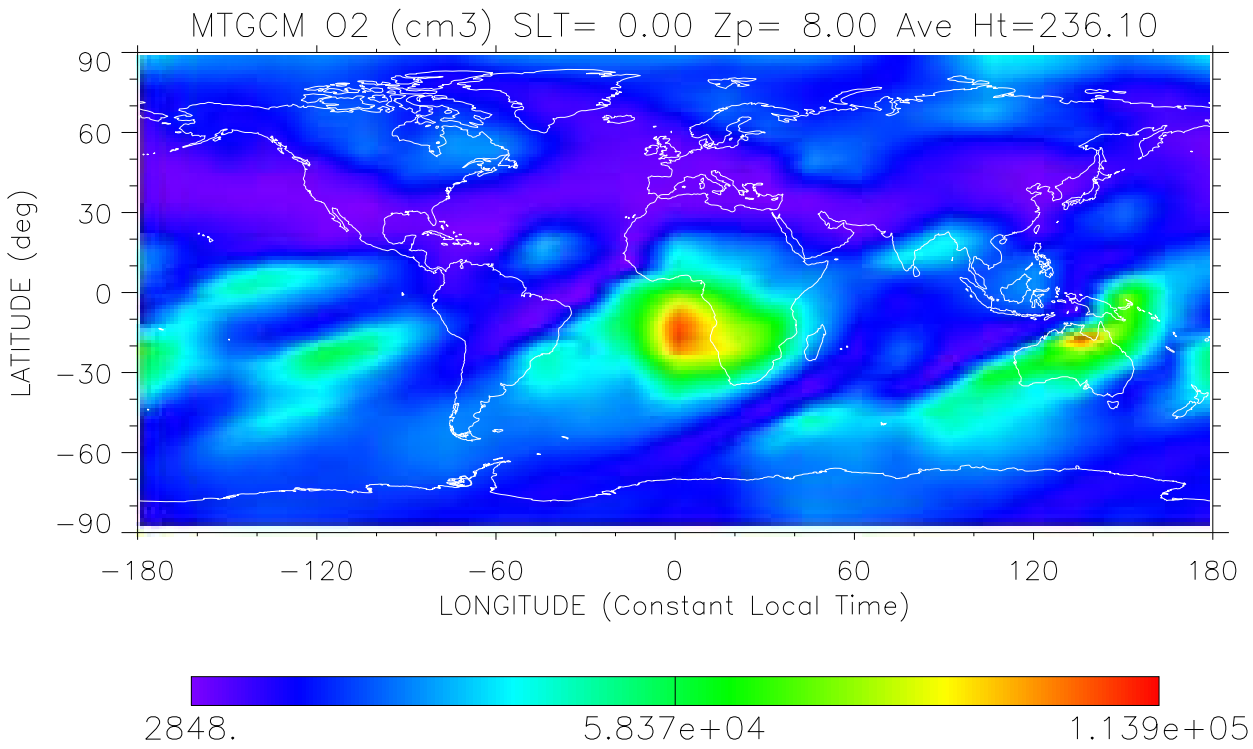

MTGCM CO (cm3) SLT= 0.00 Zp= 3.00 Ave Ht=157.80
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
6.061e+07
1.129e+08
1.653e+08

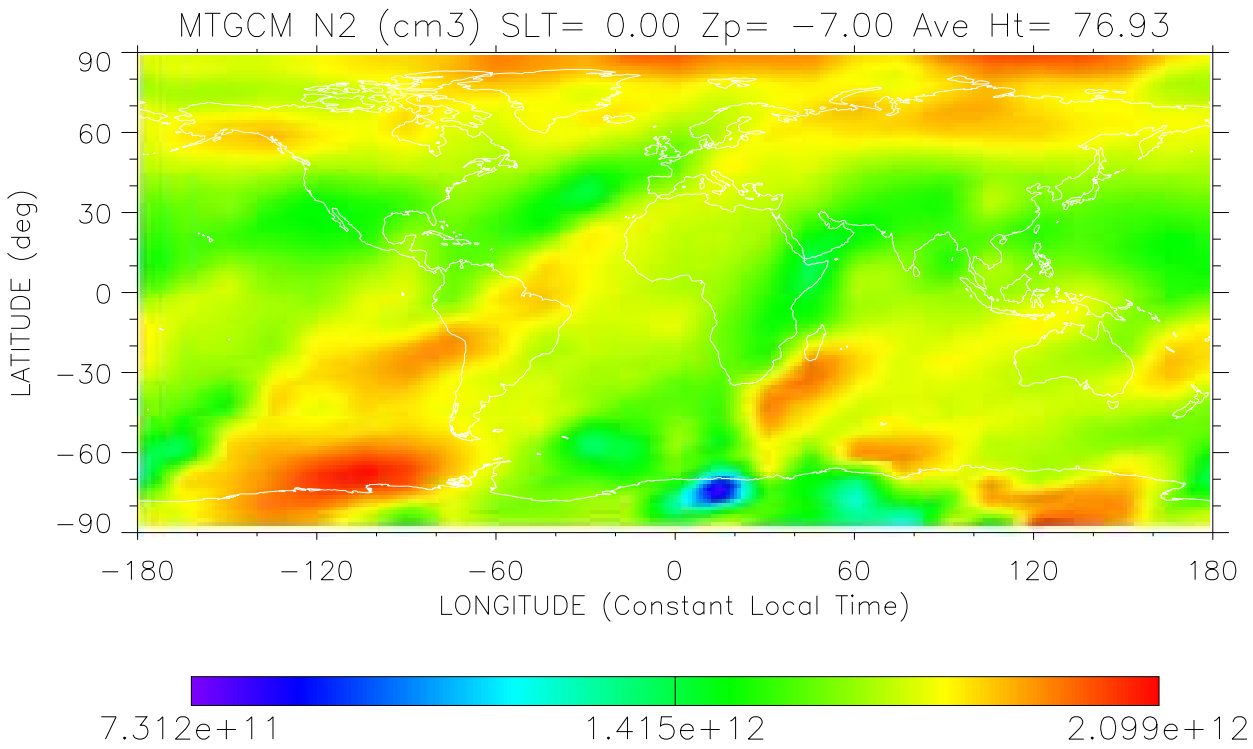

MTGCM CO (cm3) SLT= 0.00 Zp= 8.00 Ave Ht=236.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.723e+05
1.235e+06
2.298e+06

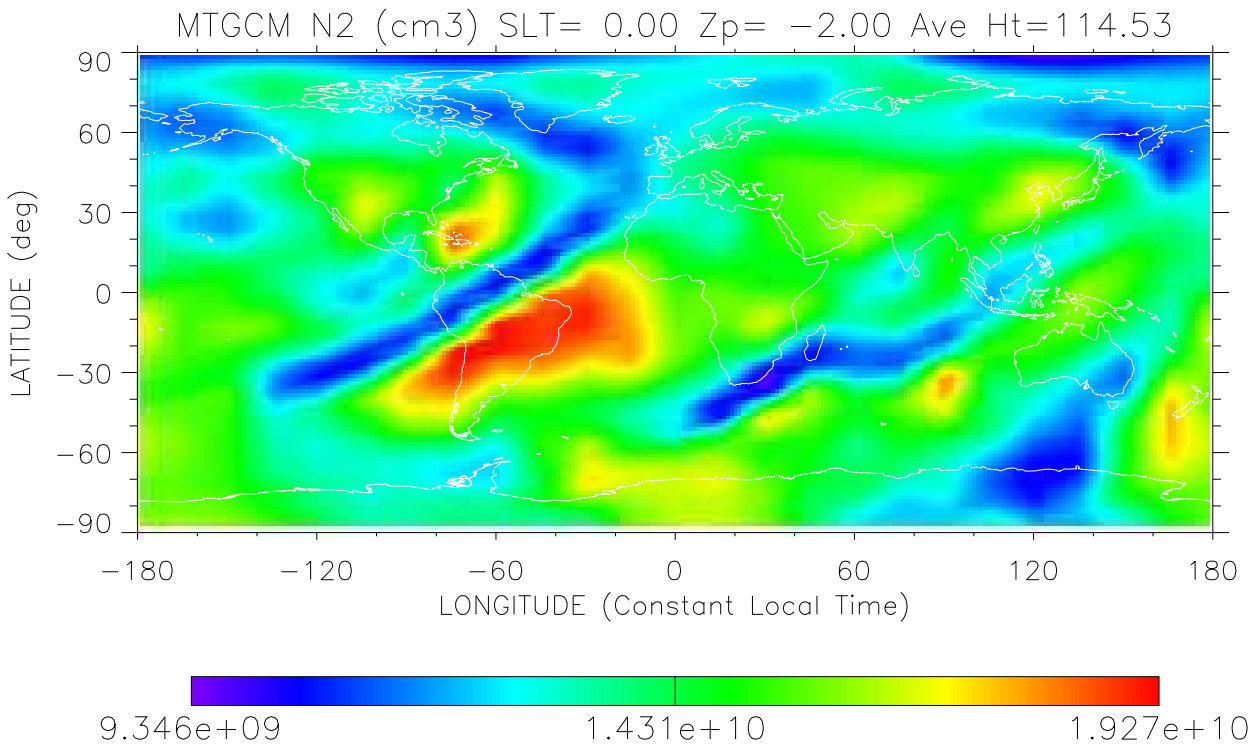

MTGCM O2 (cm3) SLT= 0.00 Zp= −7.00 Ave Ht= 76.93
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
3.124e+10
6.178e+10
9.231e+10

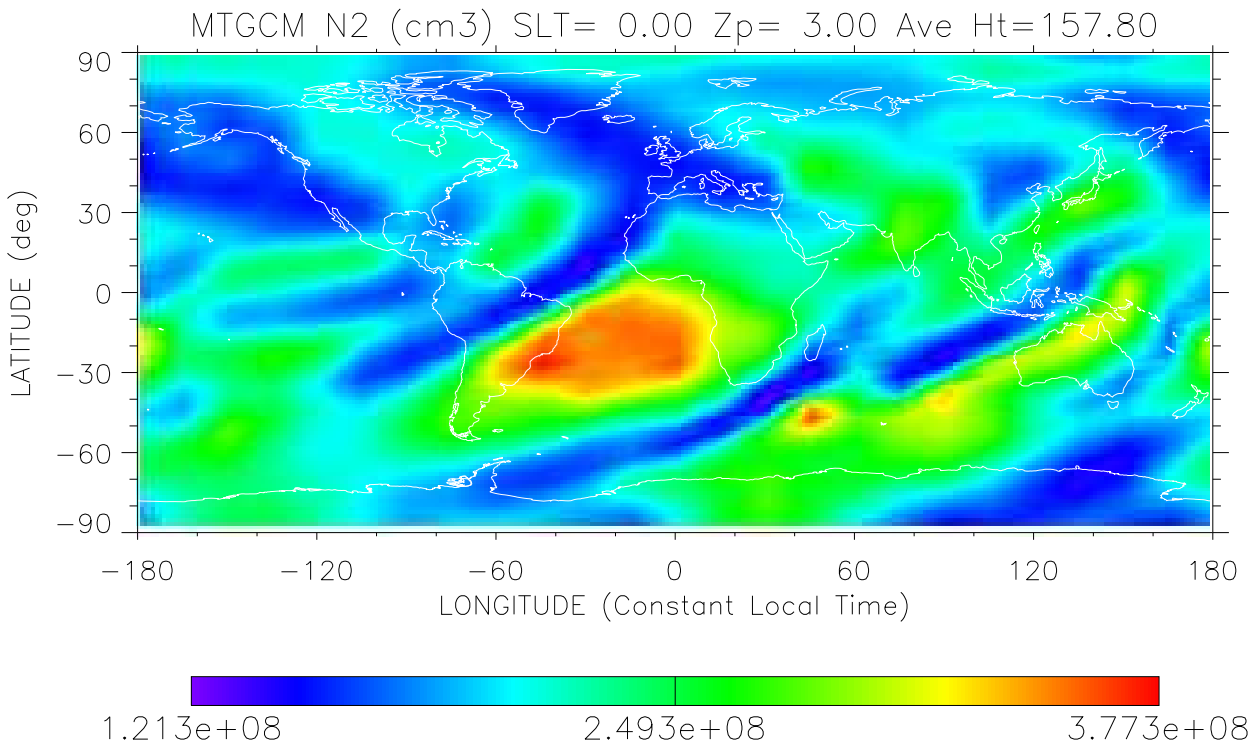

MTGCM O2 (cm3) SLT= 0.00 Zp= −2.00 Ave Ht=114.53
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
3.913e+08
5.909e+08
7.905e+08

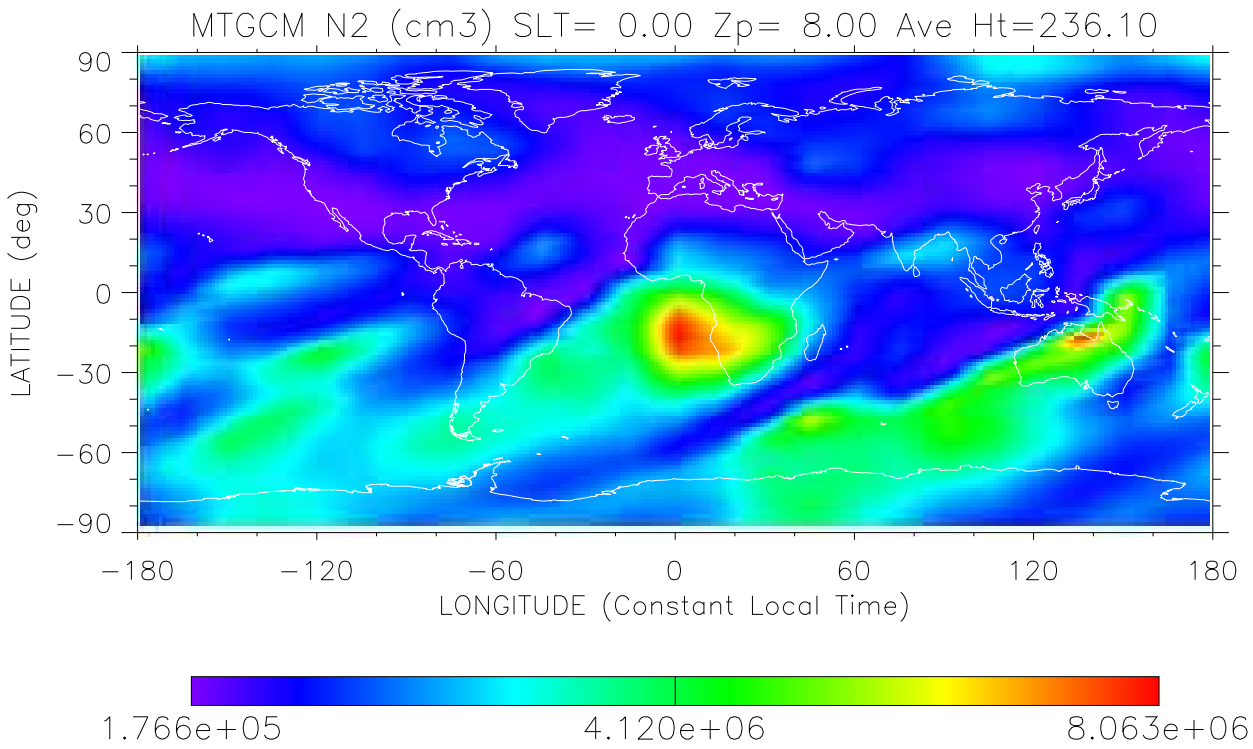

MTGCM O2 (cm3) SLT= 0.00 Zp= 3.00 Ave Ht=157.80
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
2.497e+06
5.569e+06
8.642e+06

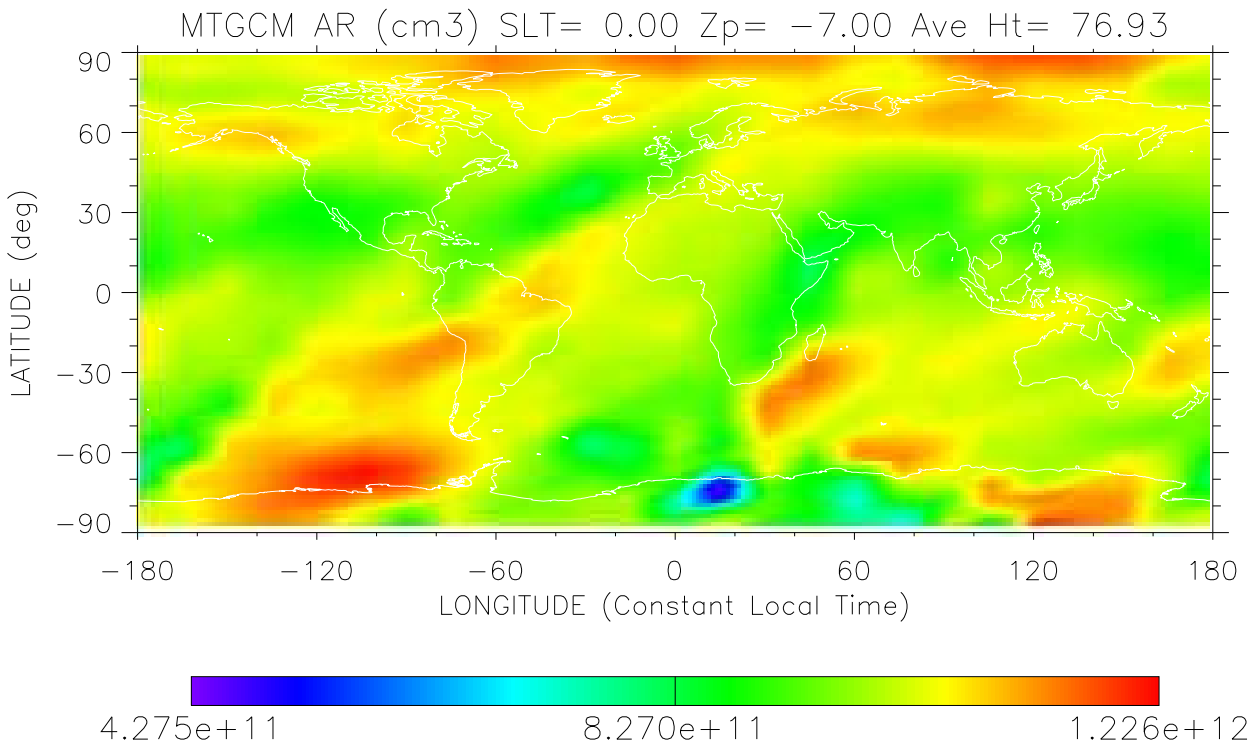

MTGCM O2 (cm3) SLT= 0.00 Zp= 8.00 Ave Ht=236.10
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
2848.
5.837e+04
1.139e+05

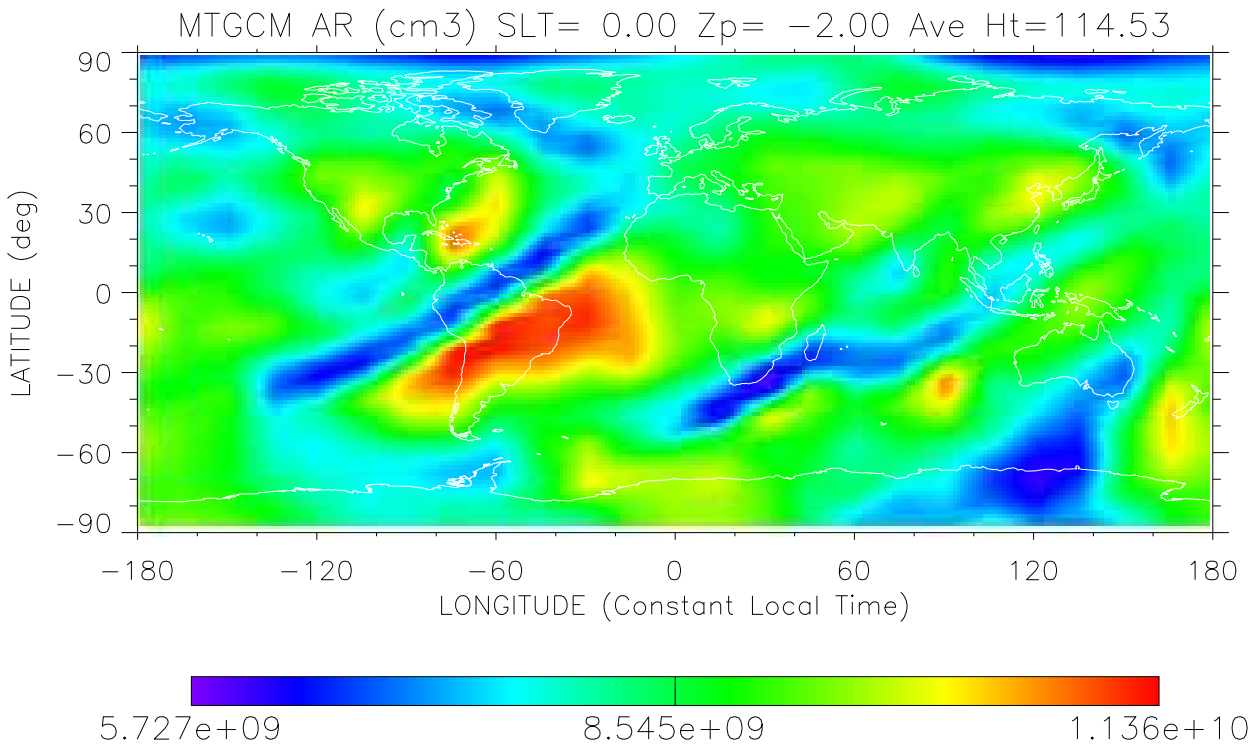

MTGCM N2 (cm3) SLT= 0.00 Zp= −7.00 Ave Ht= 76.93
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
7.312e+11
1.415e+12
2.099e+12

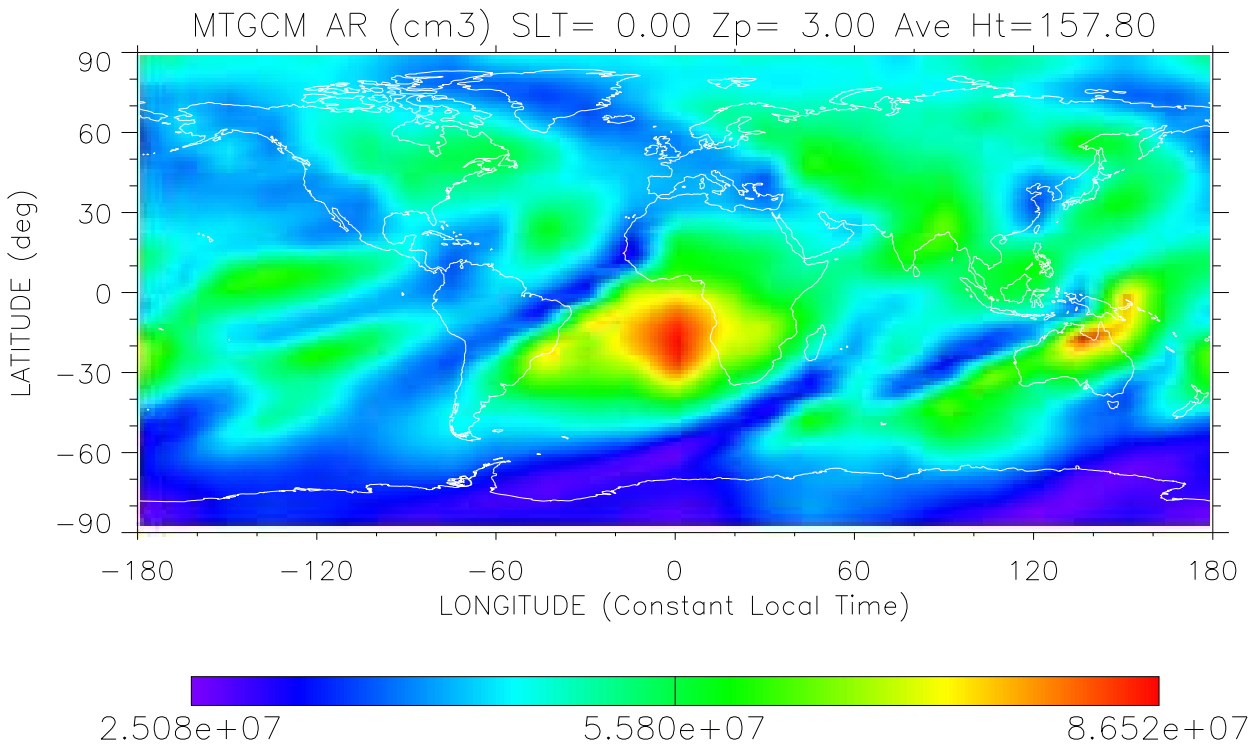

MTGCM N2 (cm3) SLT= 0.00 Zp= −2.00 Ave Ht=114.53
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
9.346e+09
1.431e+10
1.927e+10

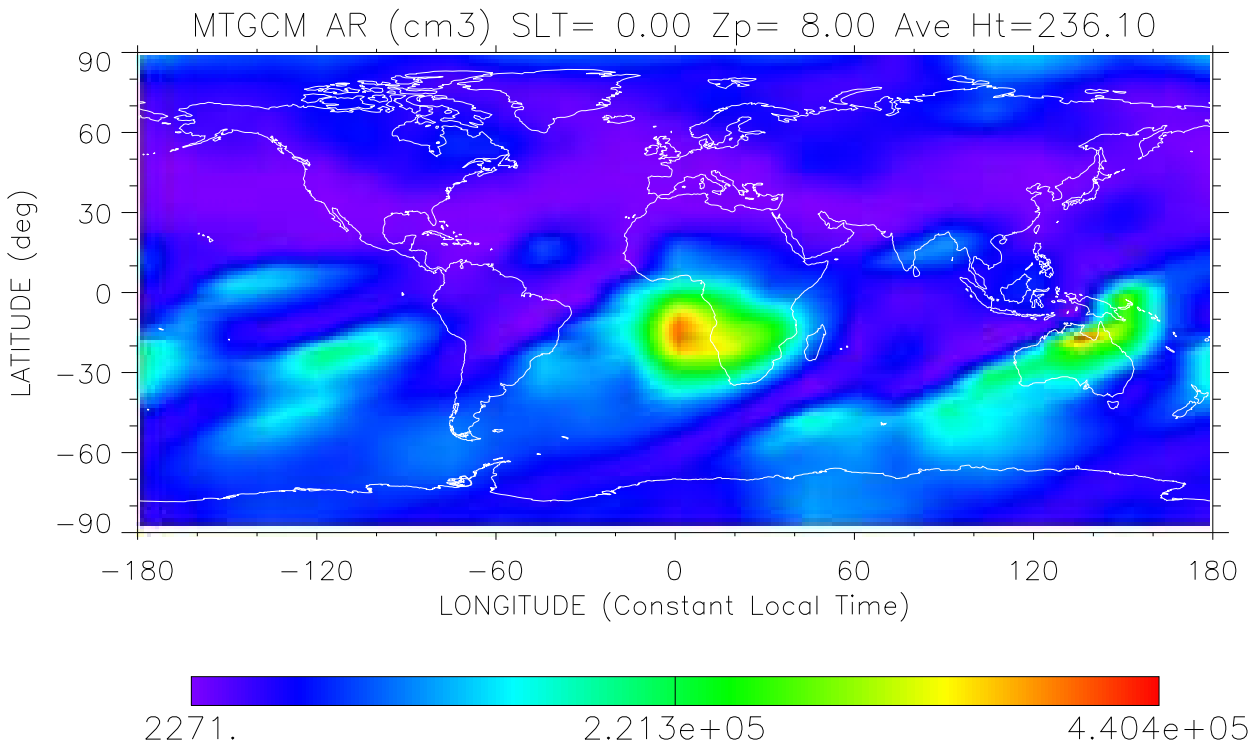

MTGCM N2 (cm3) SLT= 0.00 Zp= 3.00 Ave Ht=157.80
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.213e+08
2.493e+08
3.773e+08

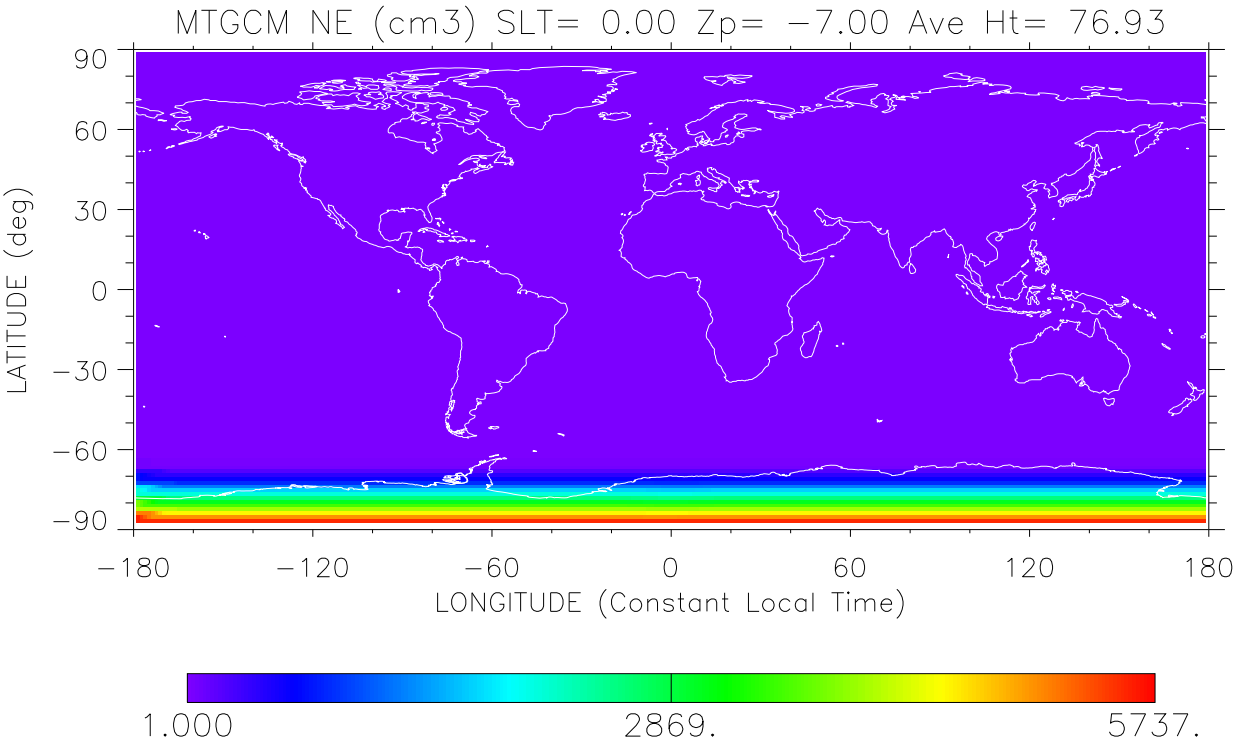

MTGCM N2 (cm3) SLT= 0.00 Zp= 8.00 Ave Ht=236.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.766e+05
4.120e+06
8.063e+06

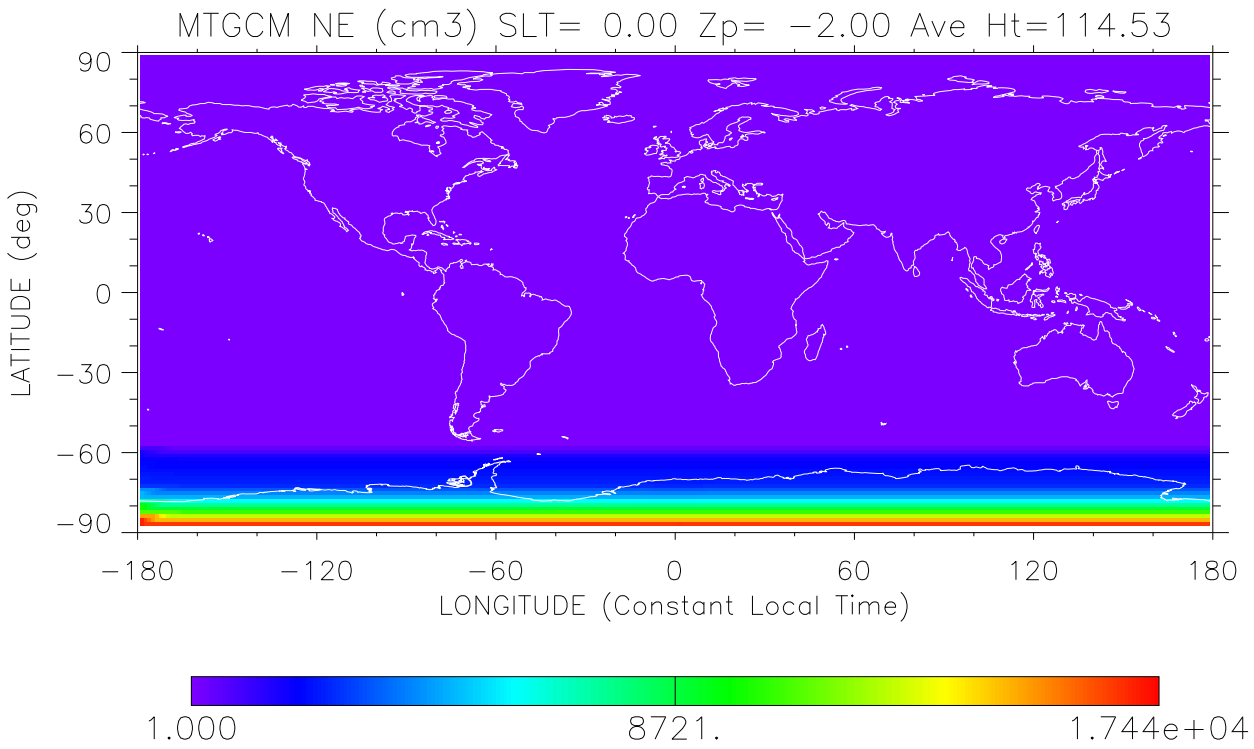

MTGCM AR (cm3) SLT= 0.00 Zp= −7.00 Ave Ht= 76.93
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
4.275e+11
8.270e+11
1.226e+12

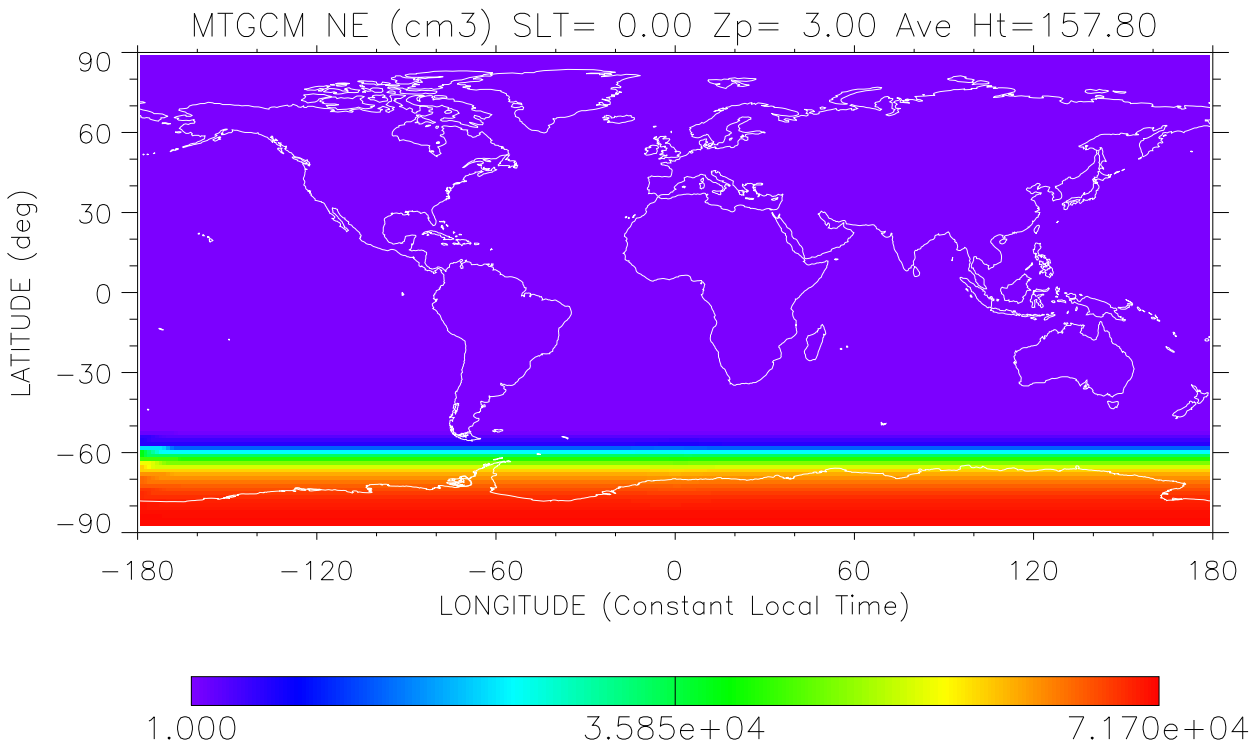

MTGCM AR (cm3) SLT= 0.00 Zp= −2.00 Ave Ht=114.53
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
5.727e+09
8.545e+09
1.136e+10

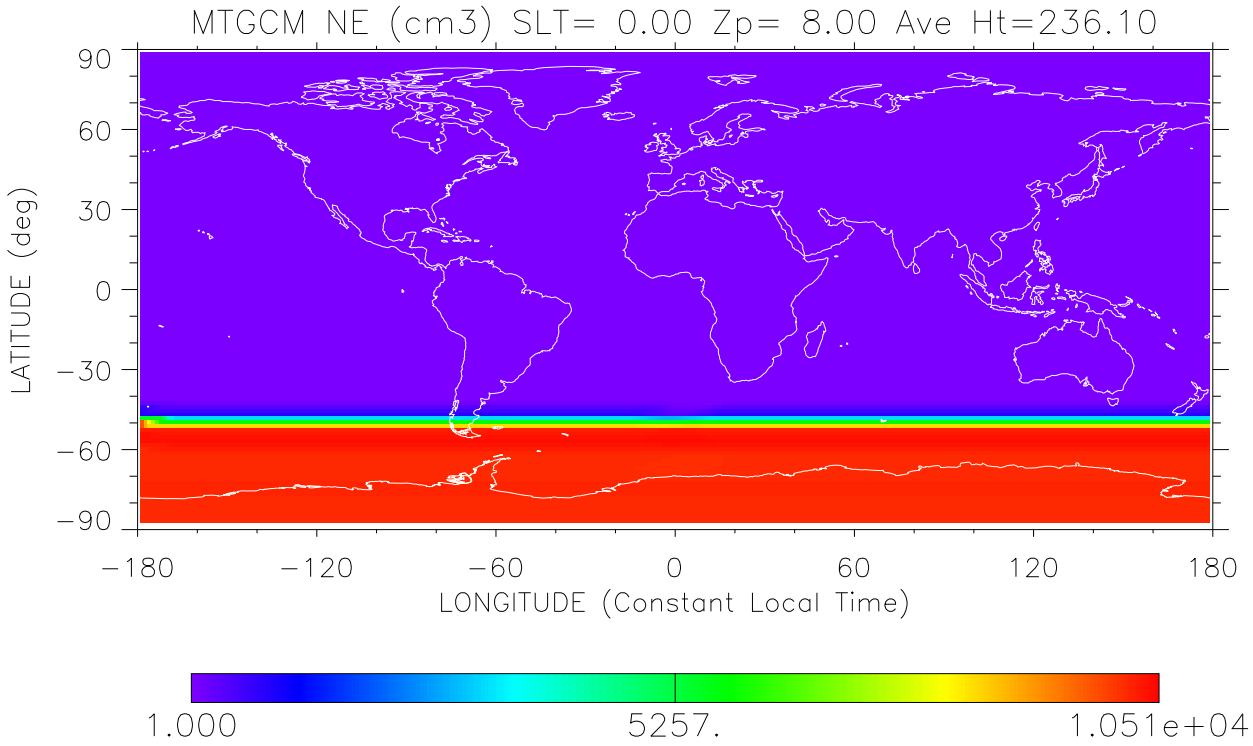

MTGCM AR (cm3) SLT= 0.00 Zp= 3.00 Ave Ht=157.80
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
2.508e+07
5.580e+07
8.652e+07

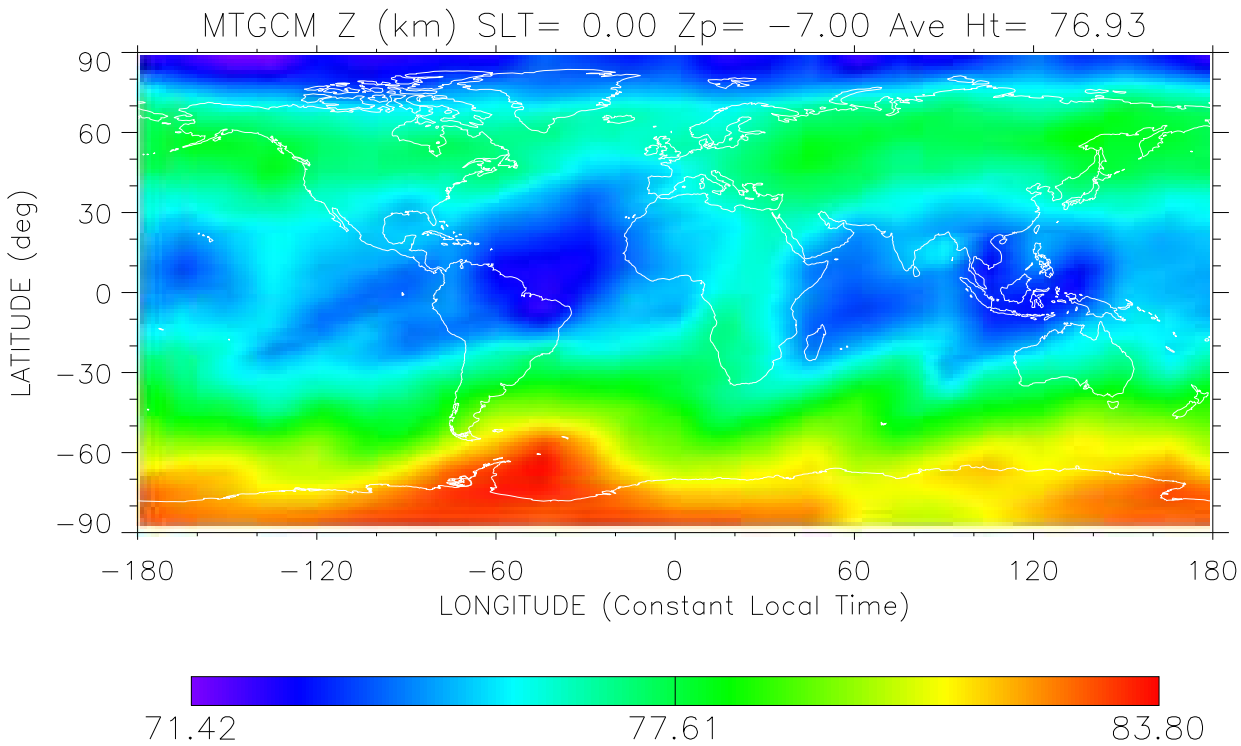

MTGCM AR (cm3) SLT= 0.00 Zp= 8.00 Ave Ht=236.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
2271.
2.213e+05
4.404e+05

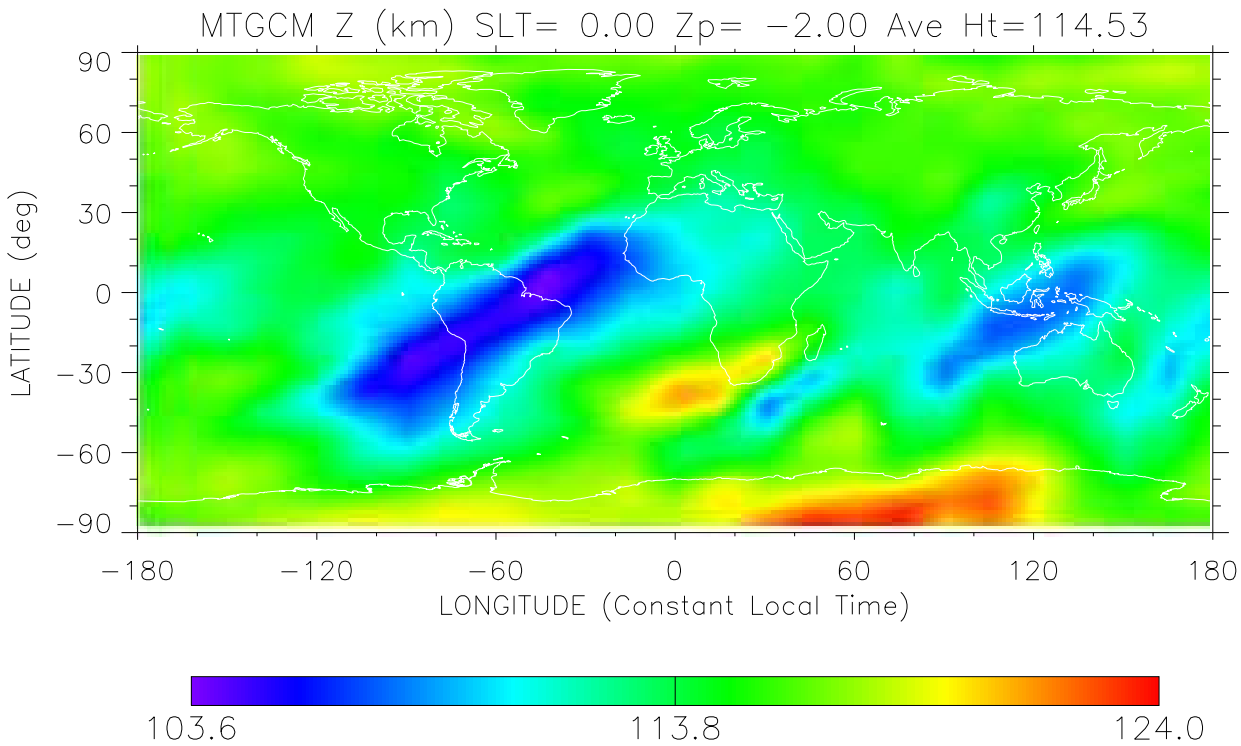

MTGCM NE (cm3) SLT= 0.00 Zp= −7.00 Ave Ht= 76.93
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.000
2869.
5737.

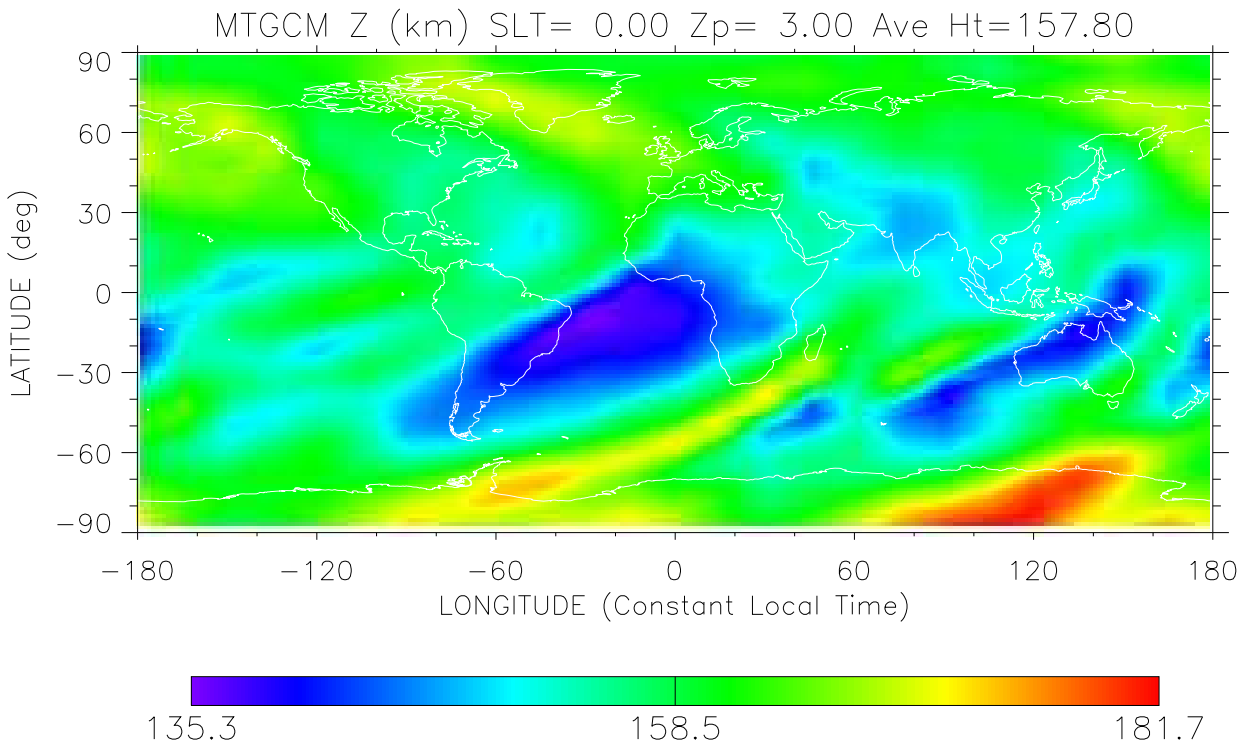

MTGCM NE (cm3) SLT= 0.00 Zp= −2.00 Ave Ht=114.53
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.000
8721.
1.744e+04

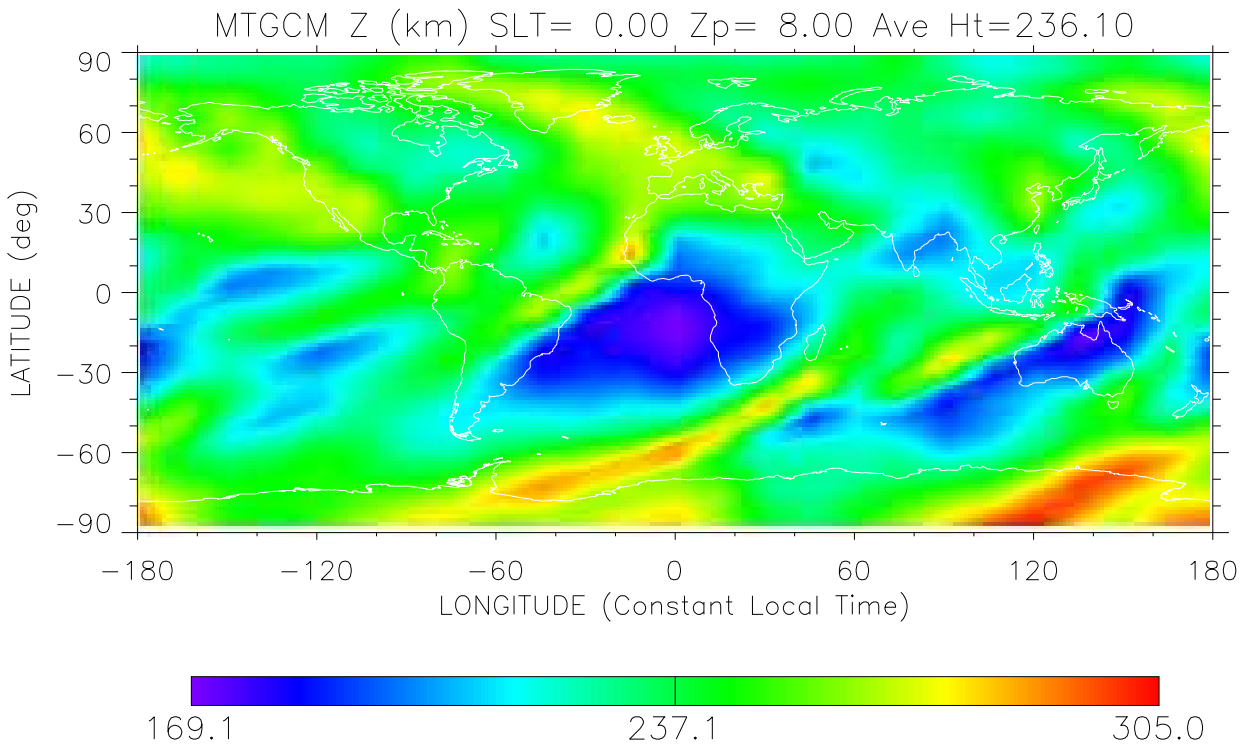

MTGCM NE (cm3) SLT= 0.00 Zp= 3.00 Ave Ht=157.80
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.000
3.585e+04
7.170e+04

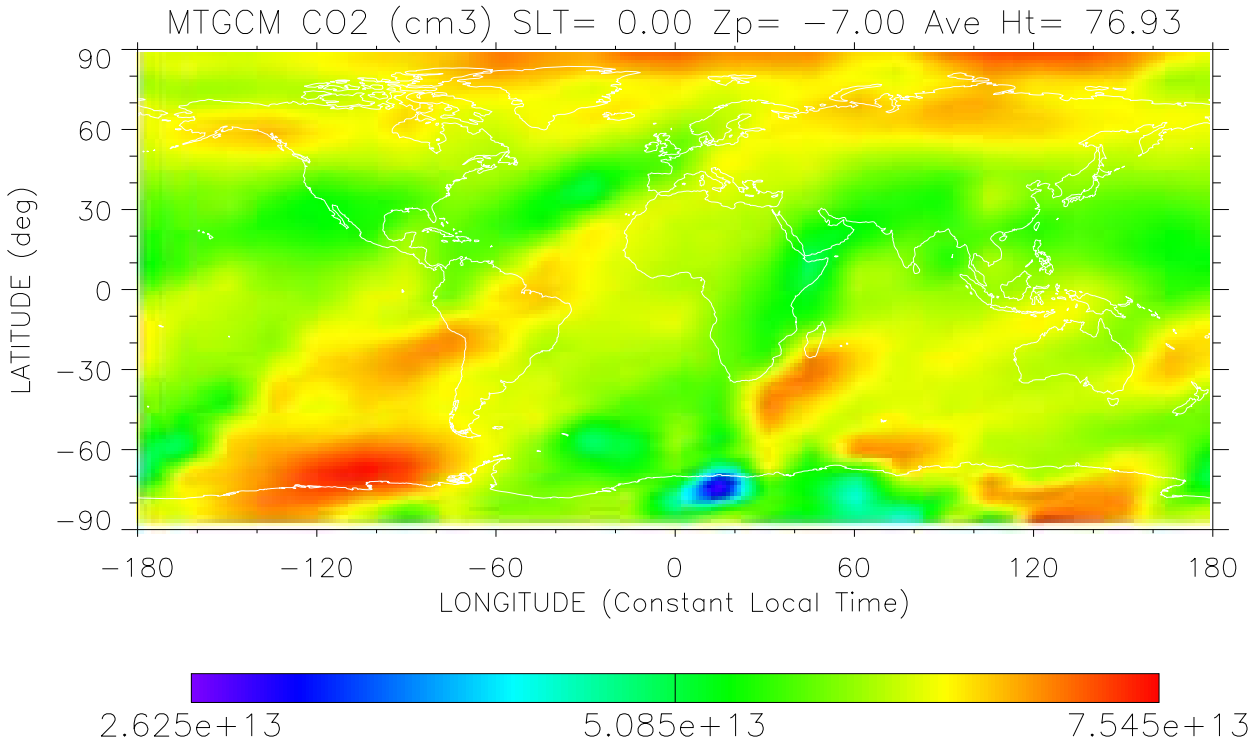

MTGCM NE (cm3) SLT= 0.00 Zp= 8.00 Ave Ht=236.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.000
5257.
1.051e+04

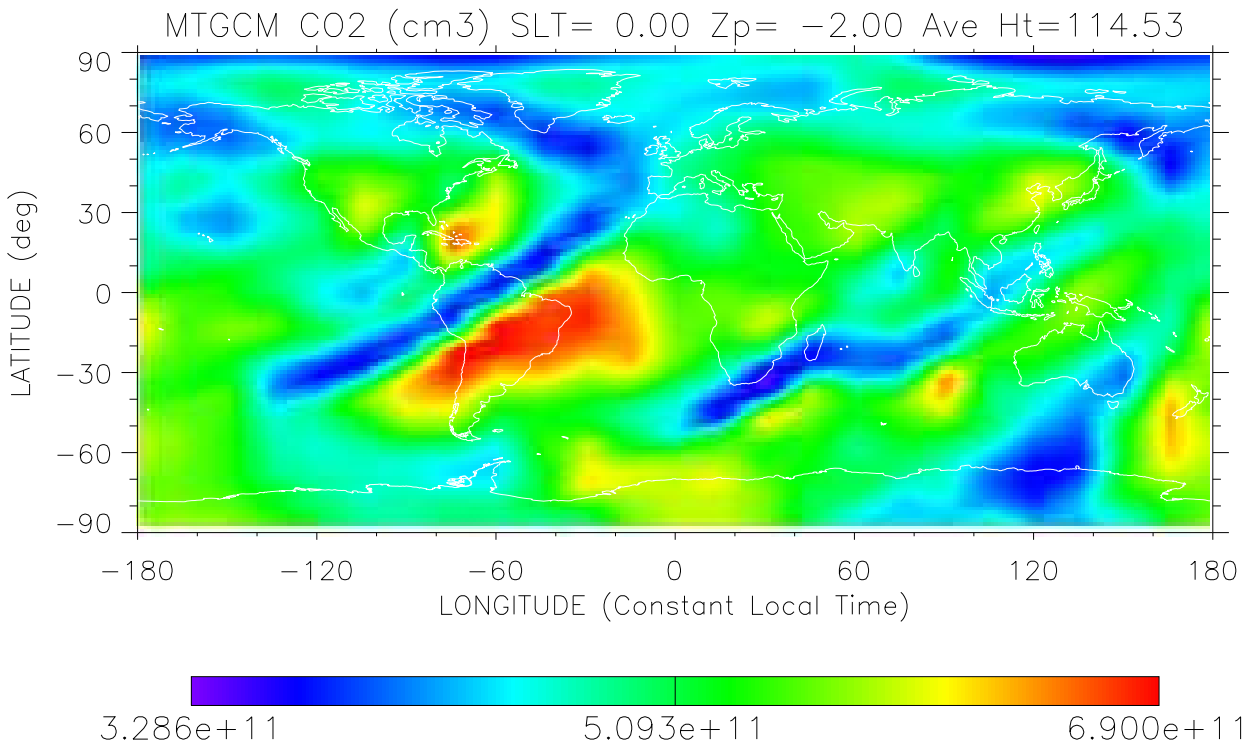

MTGCM Z (km) SLT= 0.00 Zp= −7.00 Ave Ht= 76.93
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
71.42
77.61
83.80

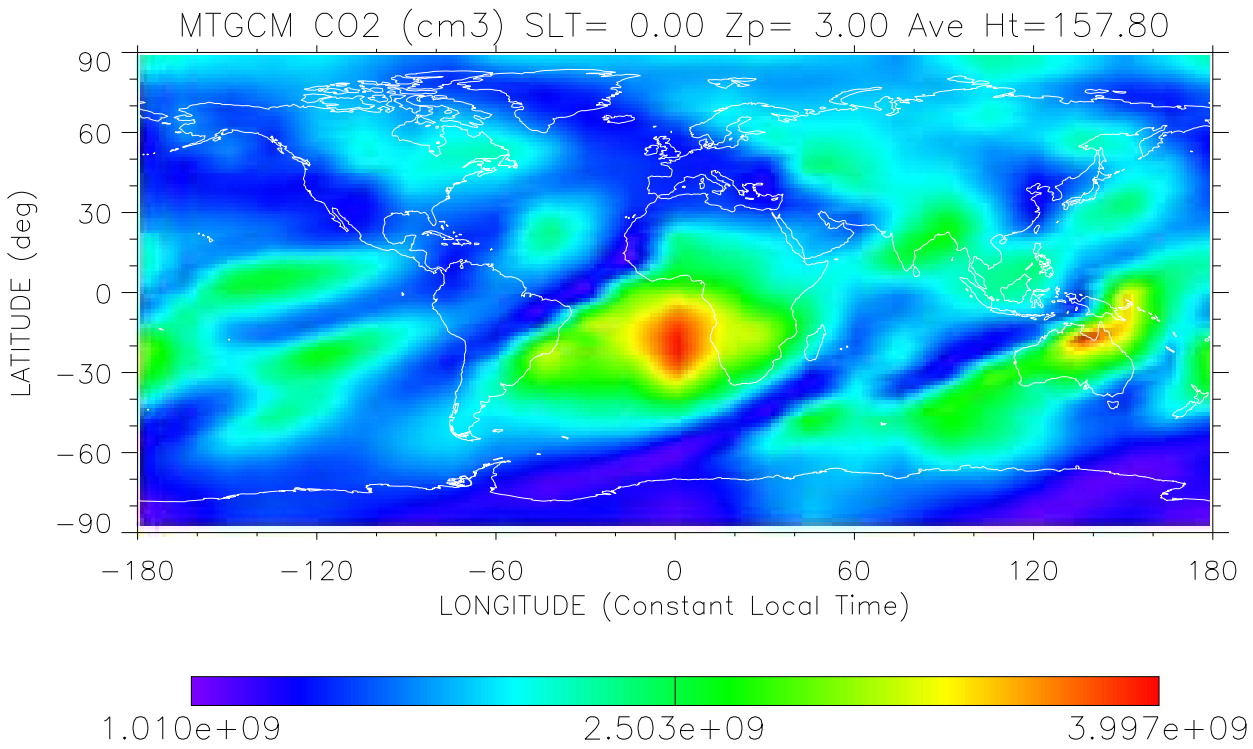

MTGCM Z (km) SLT= 0.00 Zp= −2.00 Ave Ht=114.53
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
103.6
113.8
124.0

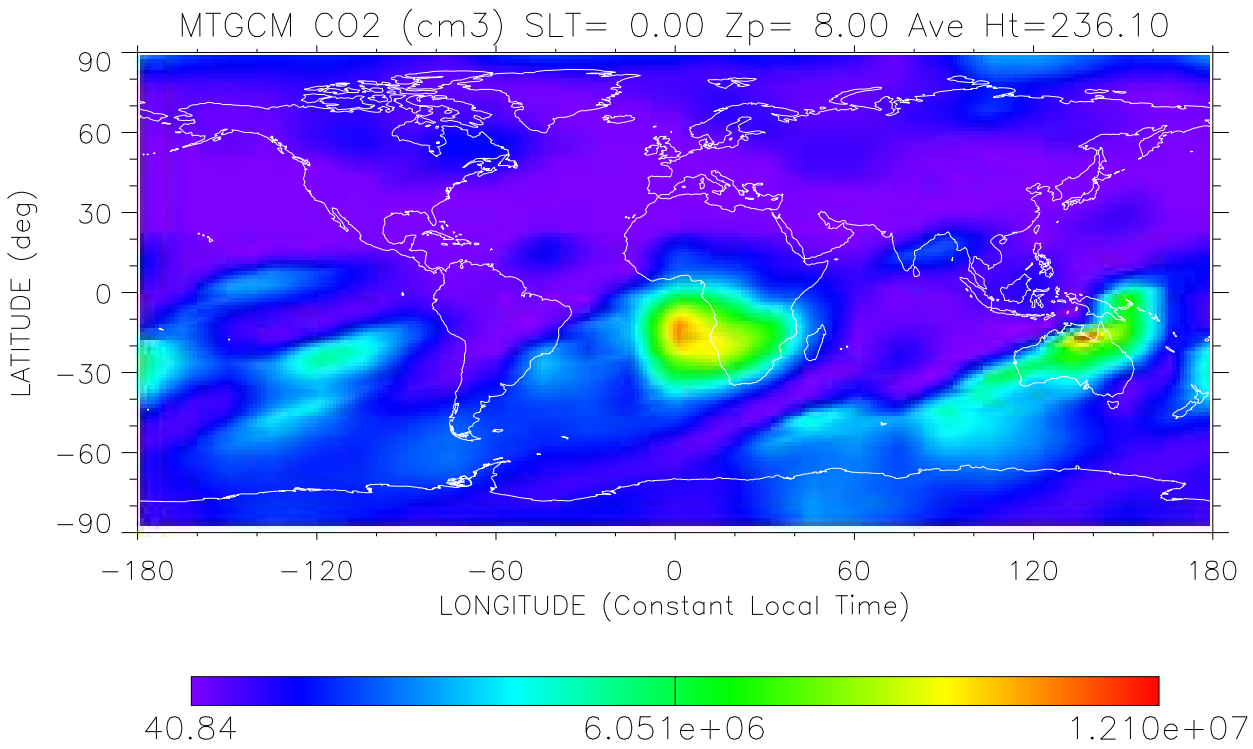

MTGCM Z (km) SLT= 0.00 Zp= 3.00 Ave Ht=157.80
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
135.3
158.5
181.7

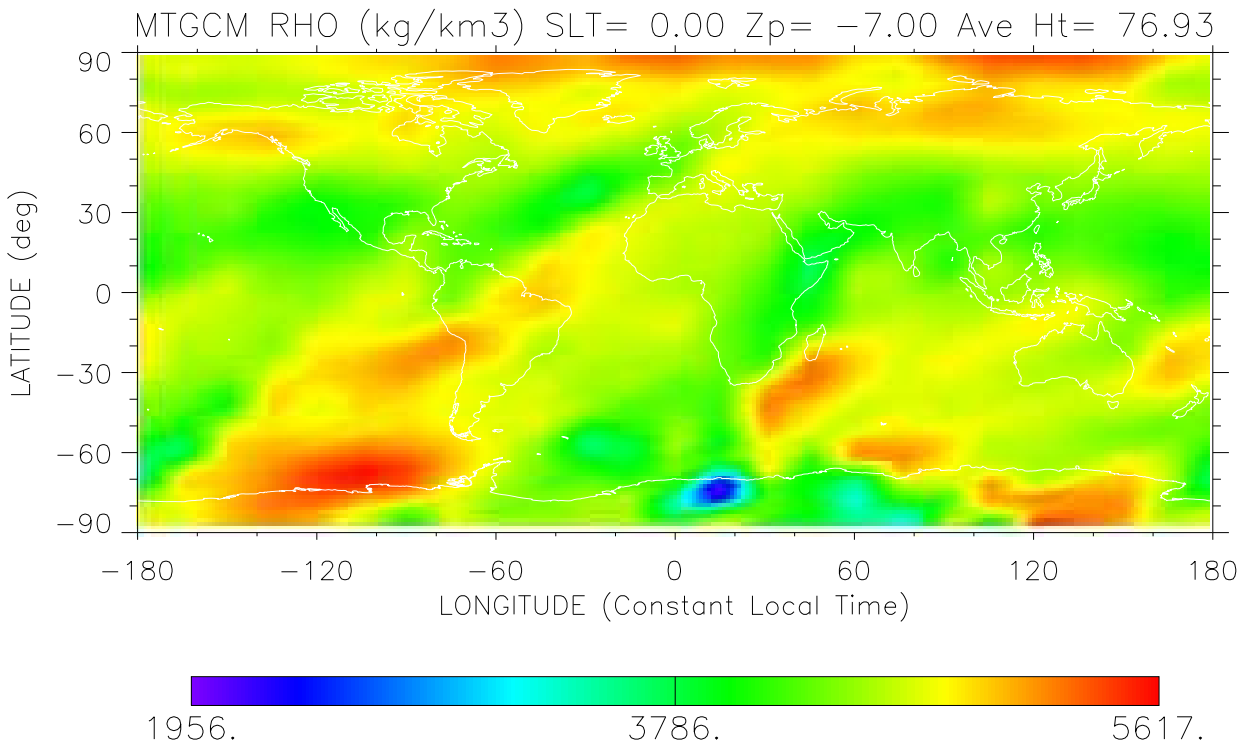

MTGCM Z (km) SLT= 0.00 Zp= 8.00 Ave Ht=236.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
169.1
237.1
305.0

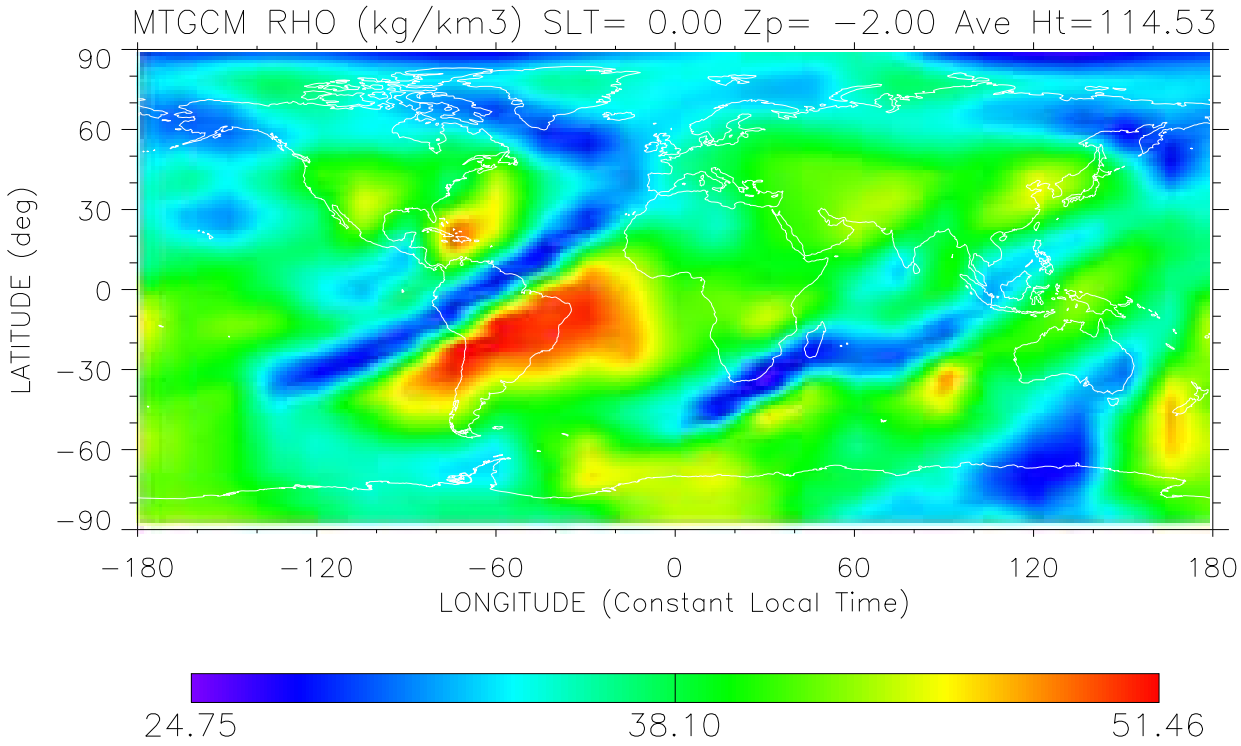

MTGCM CO2 (cm3) SLT= 0.00 Zp= −7.00 Ave Ht= 76.93
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
2.625e+13
5.085e+13
7.545e+13

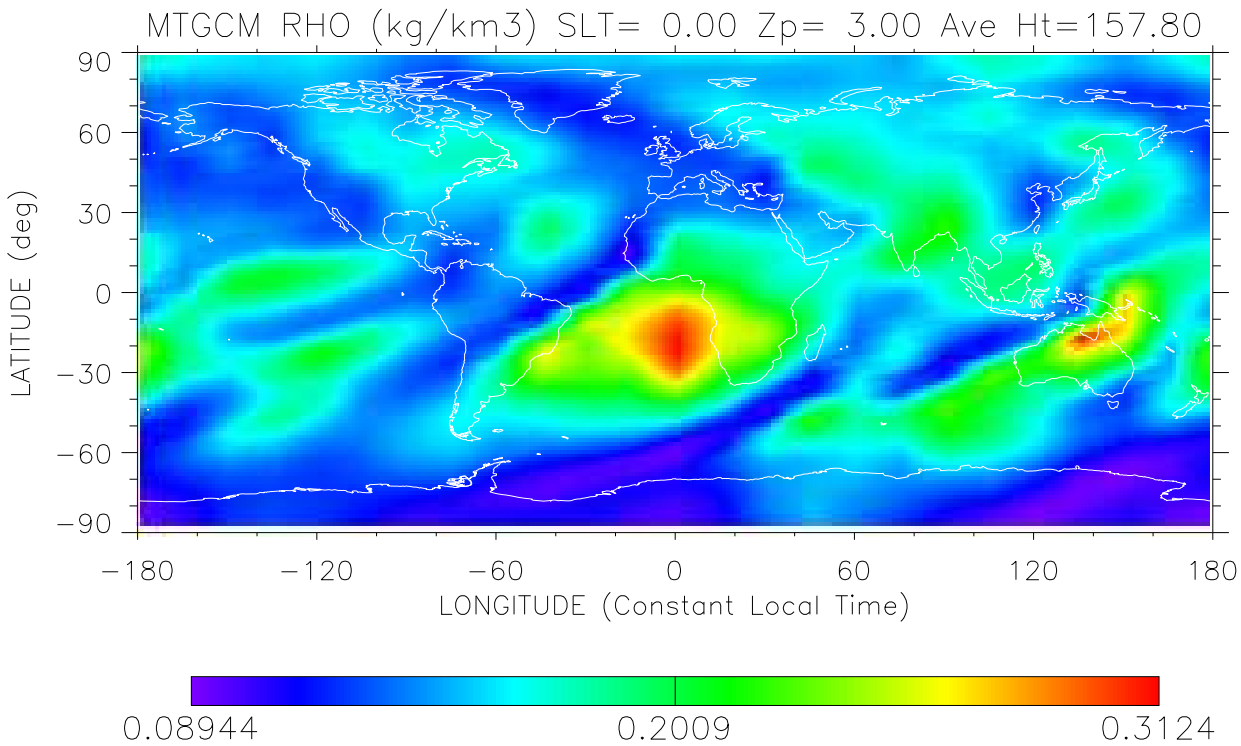

MTGCM CO2 (cm3) SLT= 0.00 Zp= −2.00 Ave Ht=114.53
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
3.286e+11
5.093e+11
6.900e+11

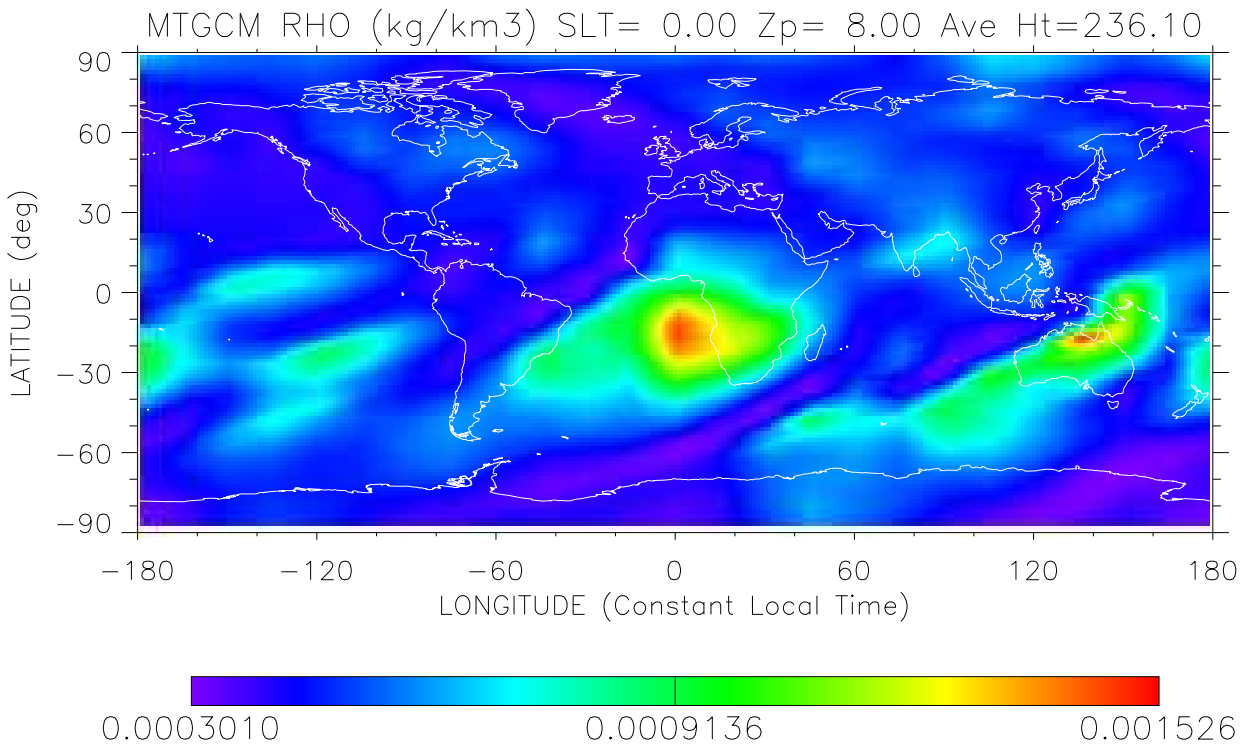

MTGCM CO2 (cm3) SLT= 0.00 Zp= 3.00 Ave Ht=157.80
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.010e+09
2.503e+09
3.997e+09

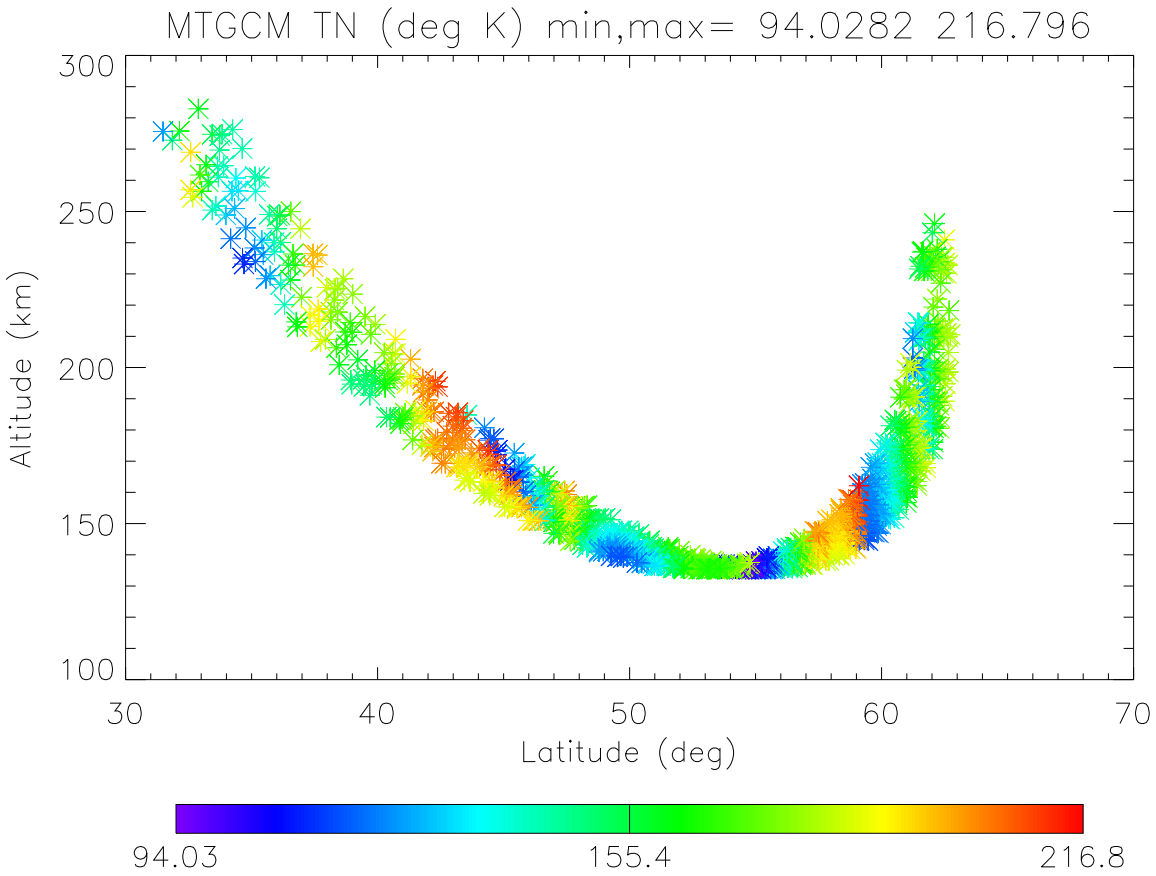

MTGCM CO2 (cm3) SLT= 0.00 Zp= 8.00 Ave Ht=236.10
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
40.84
6.051e+06
1.210e+07

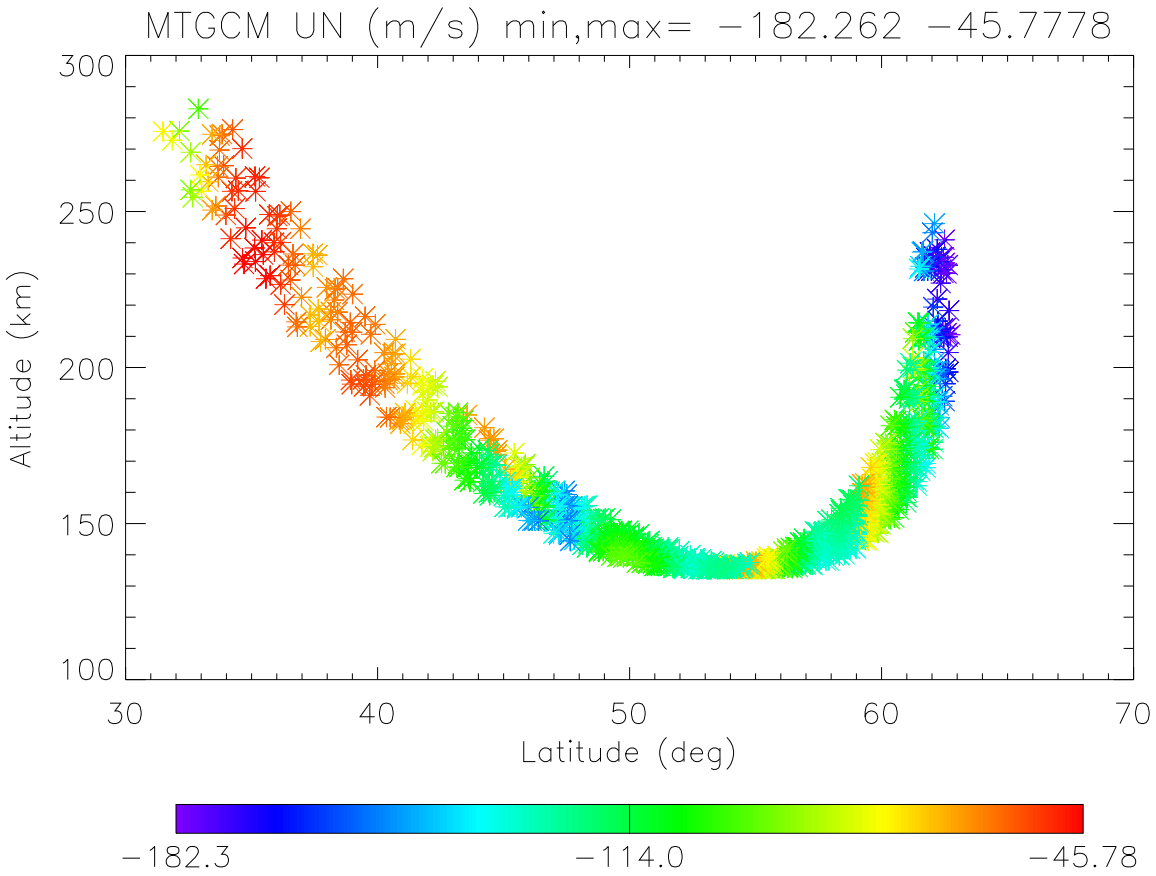

MTGCM RHO (kg/km3) SLT= 0.00 Zp= −7.00 Ave Ht= 76.93
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1956.
3786.
5617.

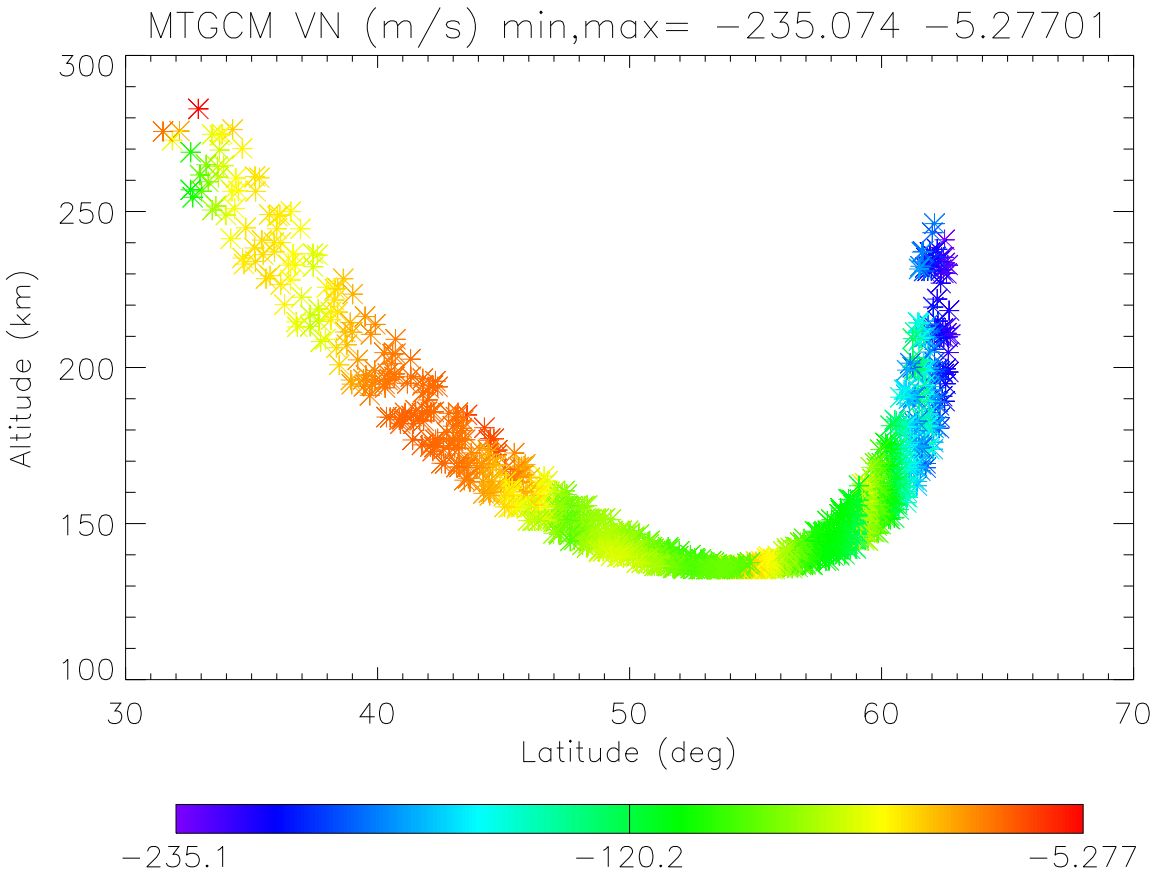

MTGCM RHO (kg/km3) SLT= 0.00 Zp= −2.00 Ave Ht=114.53
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
24.75
38.10
51.46

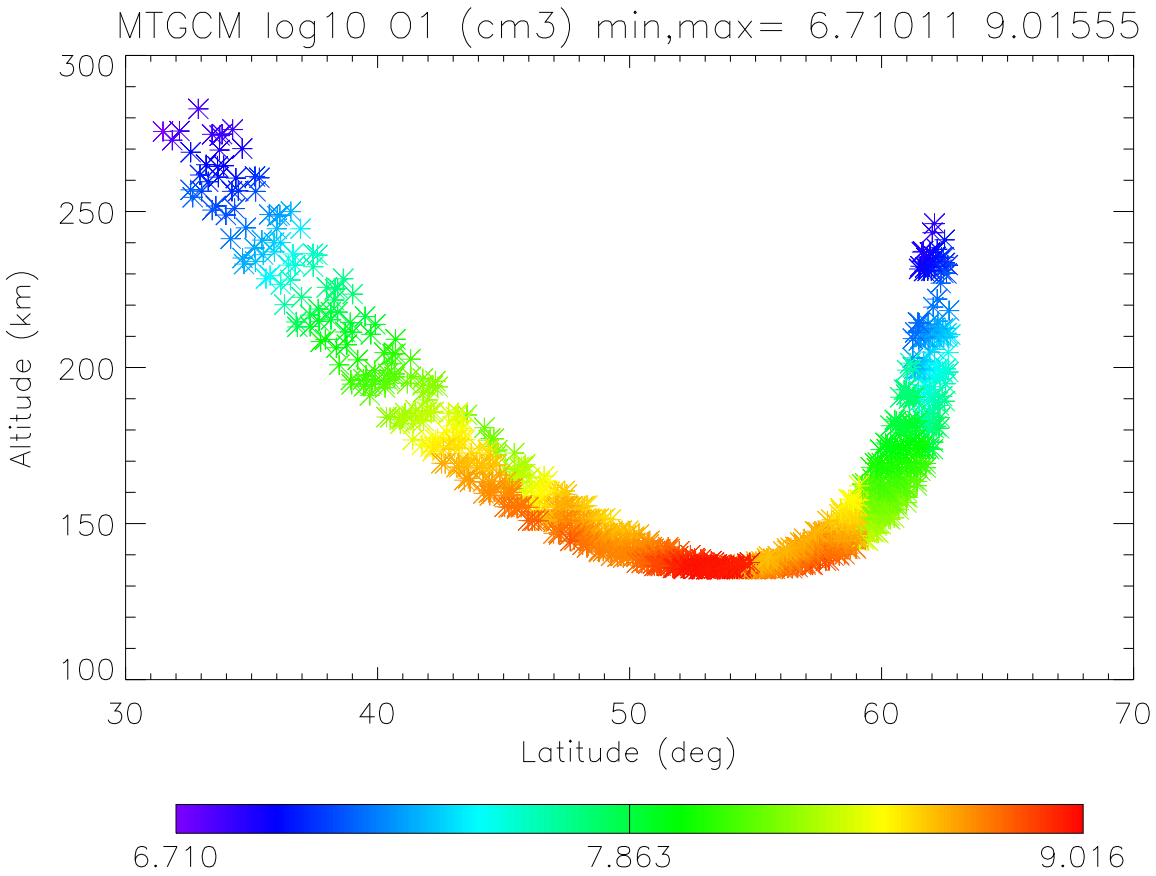

MTGCM RHO (kg/km3) SLT= 0.00 Zp= 3.00 Ave Ht=157.80
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
0.08944
0.2009
0.3124

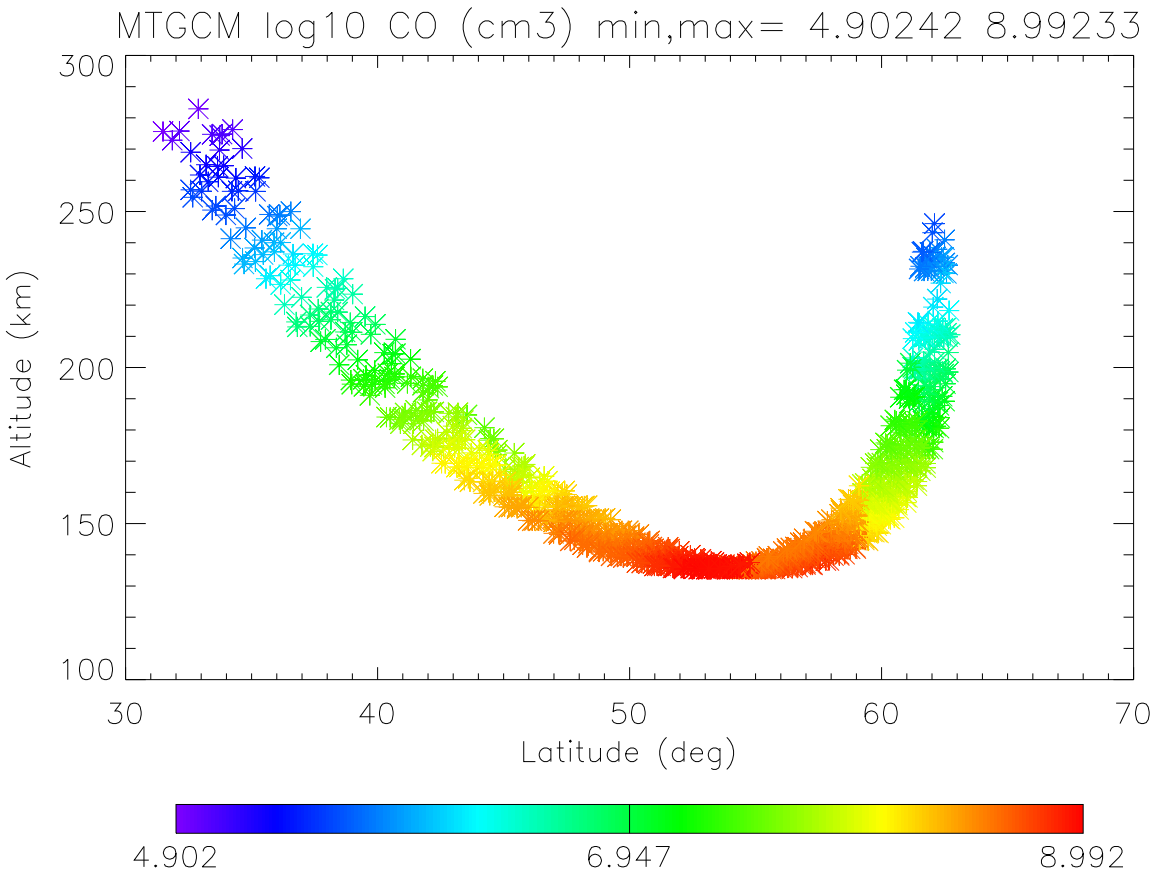

MTGCM RHO (kg/km3) SLT= 0.00 Zp= 8.00 Ave Ht=236.10
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
0.0003010
0.0009136
0.001526

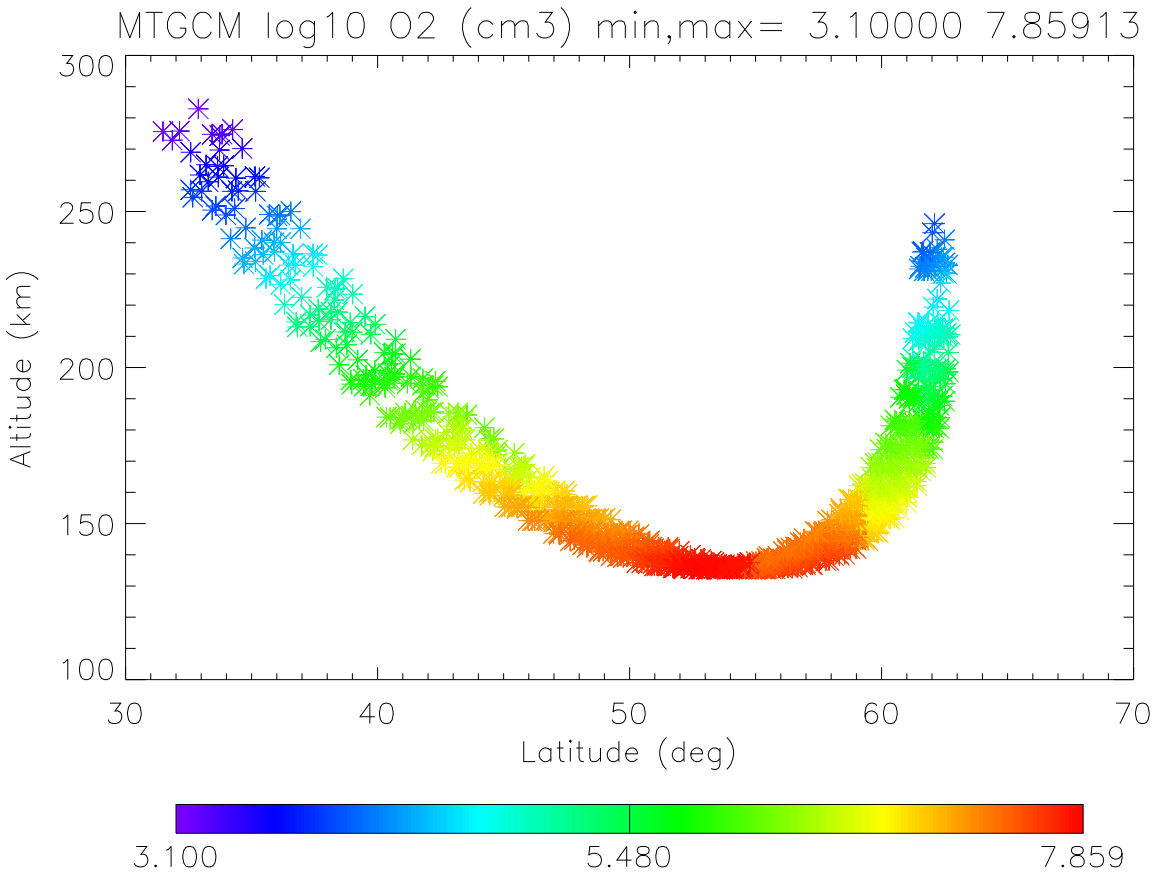

MTGCM TN (deg K) min,max= 94.0282 216.796
300
250
200
150
100
Altitude (km)
30
40
50
60
70
Latitude (deg)
94.03
155.4
216.8

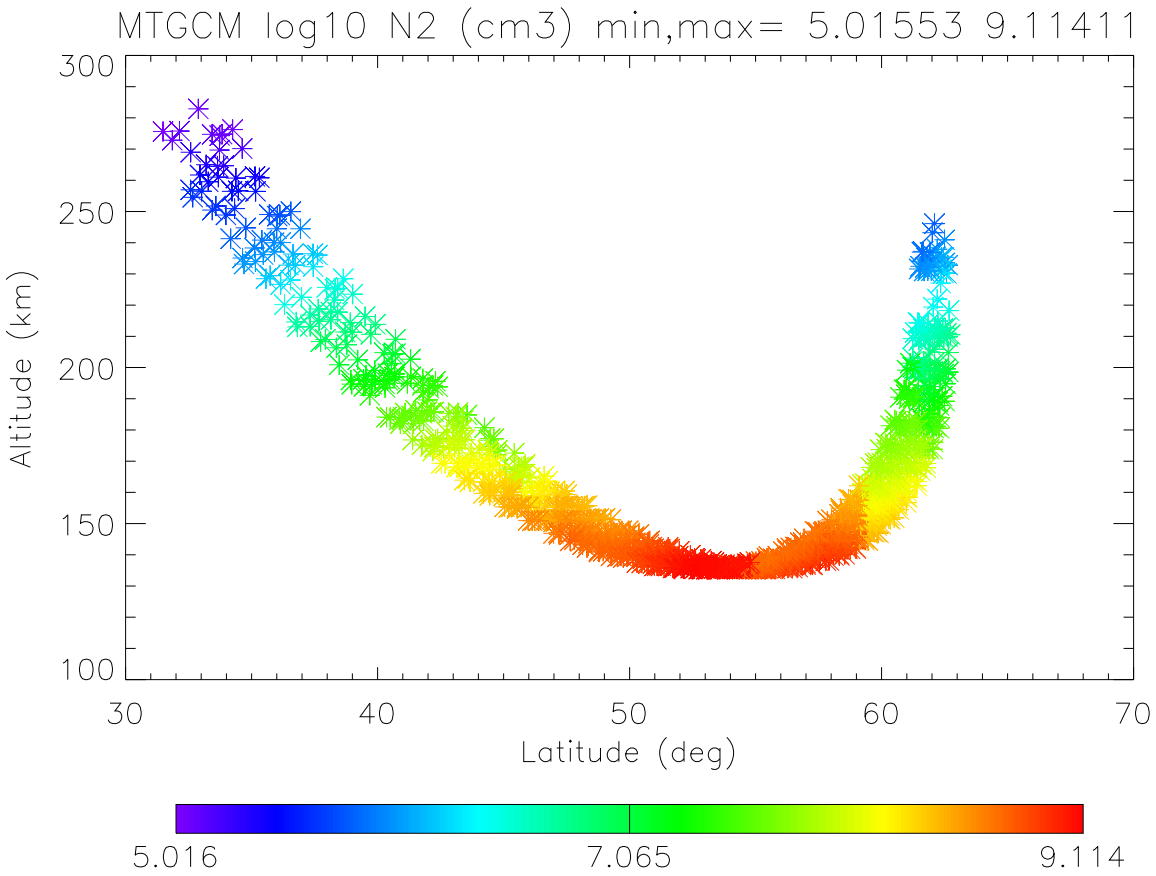

MTGCM UN (m/s) min,max= −182.262 −45.7778
300
250
200
150
100
Altitude (km)
30
40
50
60
70
Latitude (deg)
−182.3
−114.0
−45.78

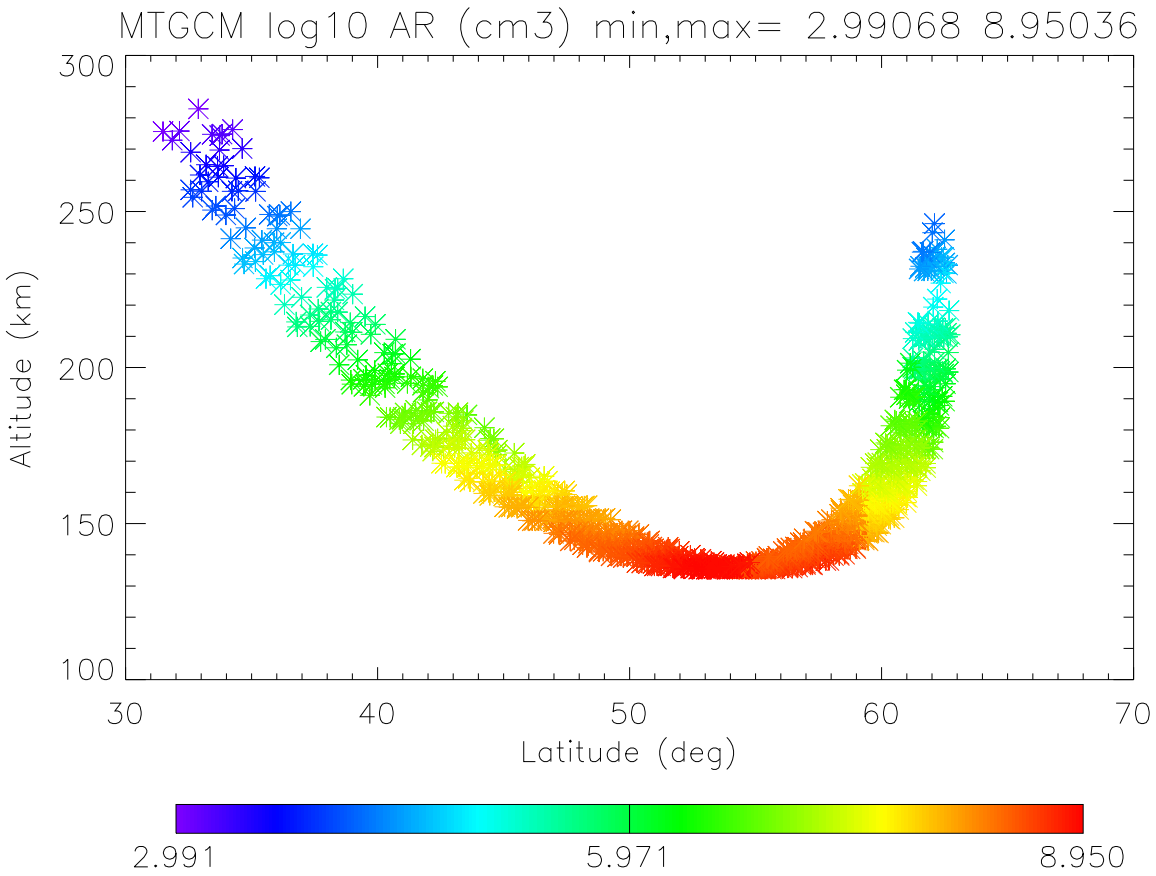

MTGCM VN (m/s) min,max= −235.074 −5.27701
300
250
200
150
100
Altitude (km)
30
40
50
60
70
Latitude (deg)
−235.1
−120.2
−5.277

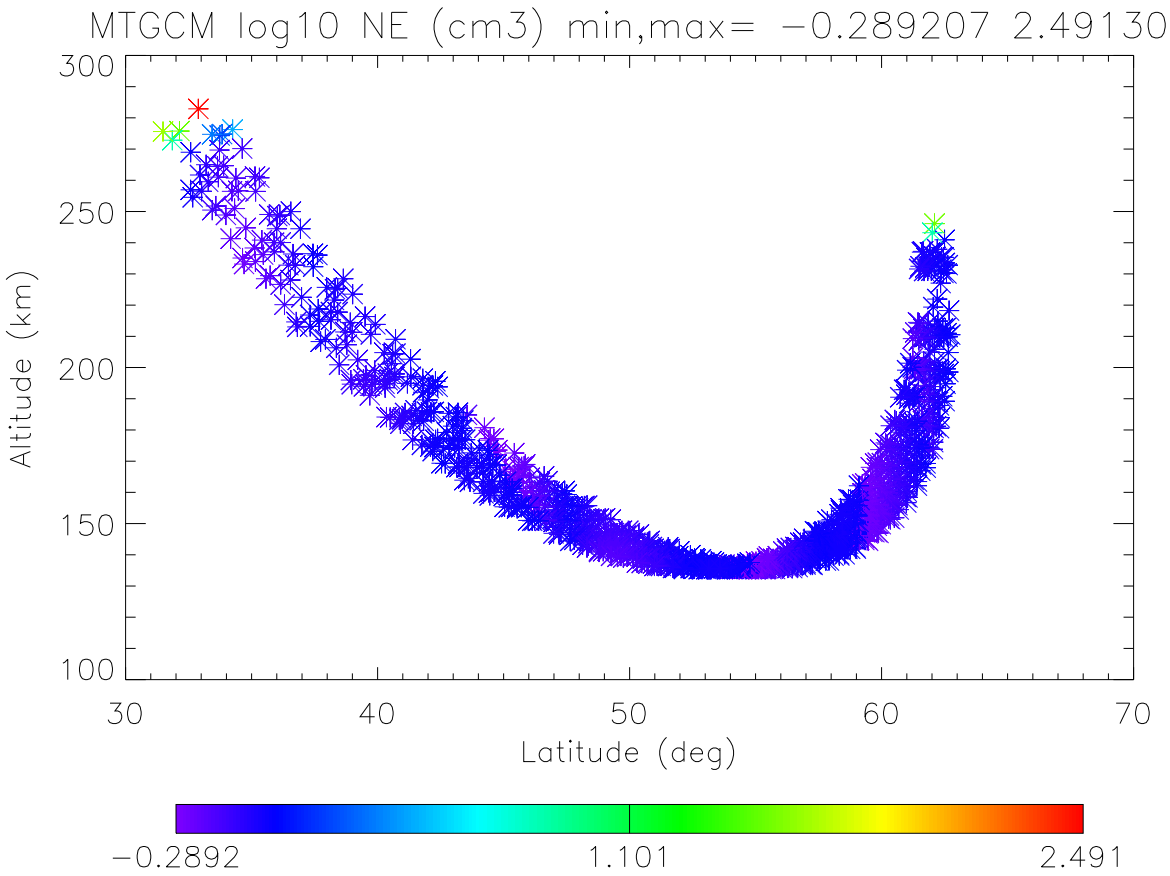

MTGCM log10 O1 (cm3) min,max= 6.71011 9.01555
300
250
200
150
100
Altitude (km)
30
40
50
60
70
Latitude (deg)
6.710
7.863
9.016

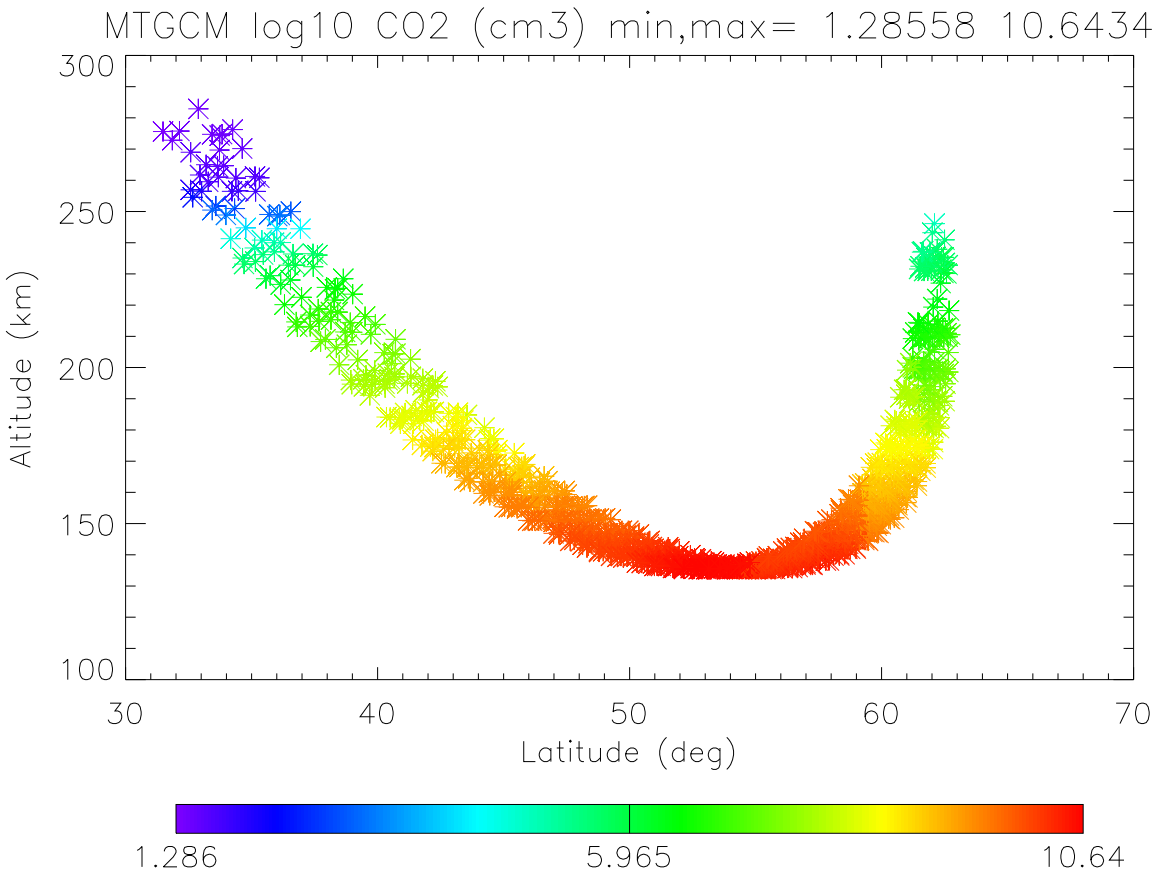

MTGCM log10 CO (cm3) min,max= 4.90242 8.99233
300
250
200
150
100
Altitude (km)
30
40
50
60
70
Latitude (deg)
4.902
6.947
8.992

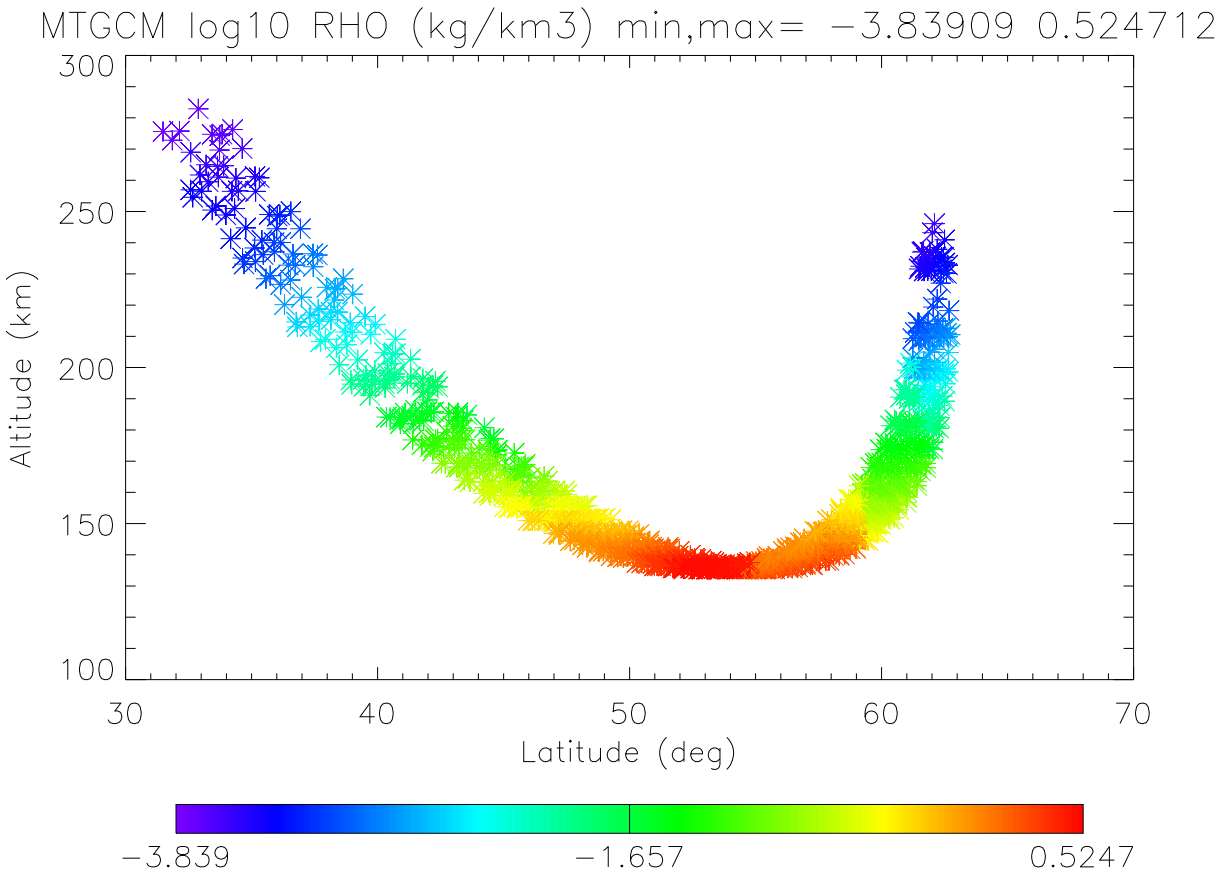

MTGCM log10 O2 (cm3) min,max= 3.10000 7.85913
300
250
200
150
100
Altitude (km)
30
40
50
60
70
Latitude (deg)
3.100
5.480
7.859


MTGCM log10 N2 (cm3) min,max= 5.01553 9.11411
300
250
200
150
100
Altitude (km)
30
40
50
60
70
Latitude (deg)
5.016
7.065
9.114


MTGCM log10 AR (cm3) min,max= 2.99068 8.95036
300
250
200
150
100
Altitude (km)
30
40
50
60
70
Latitude (deg)
2.991
5.971
8.950


MTGCM log10 NE (cm3) min,max= −0.289207 2.49130
300
250
200
150
100
Altitude (km)
30
40
50
60
70
Latitude (deg)
−0.2892
1.101
2.491


MTGCM log10 CO2 (cm3) min,max= 1.28558 10.6434
300
250
200
150
100
Altitude (km)
30
40
50
60
70
Latitude (deg)
1.286
5.965
10.64


MTGCM log10 RHO (kg/km3) min,max= −3.83909 0.524712
300
250
200
150
100
Altitude (km)
30
40
50
60
70
Latitude (deg)
−3.839
−1.657
0.5247