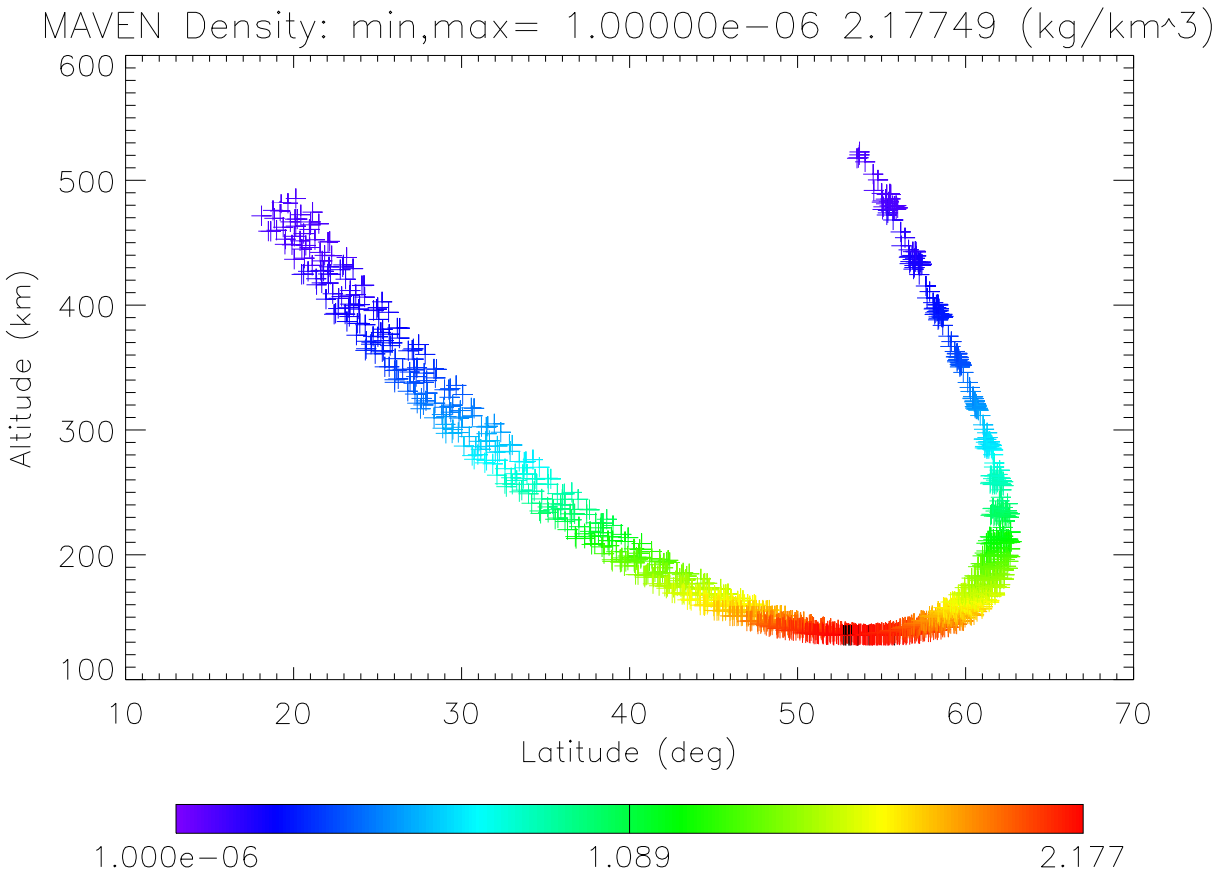
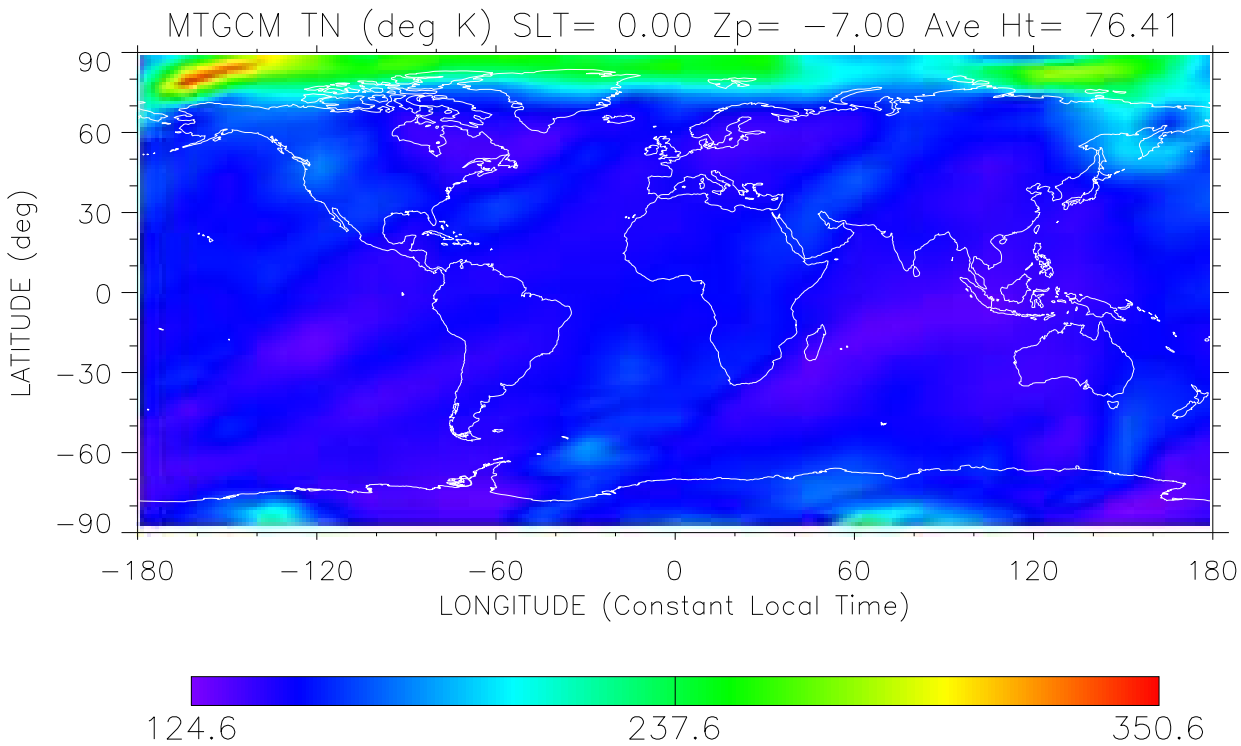
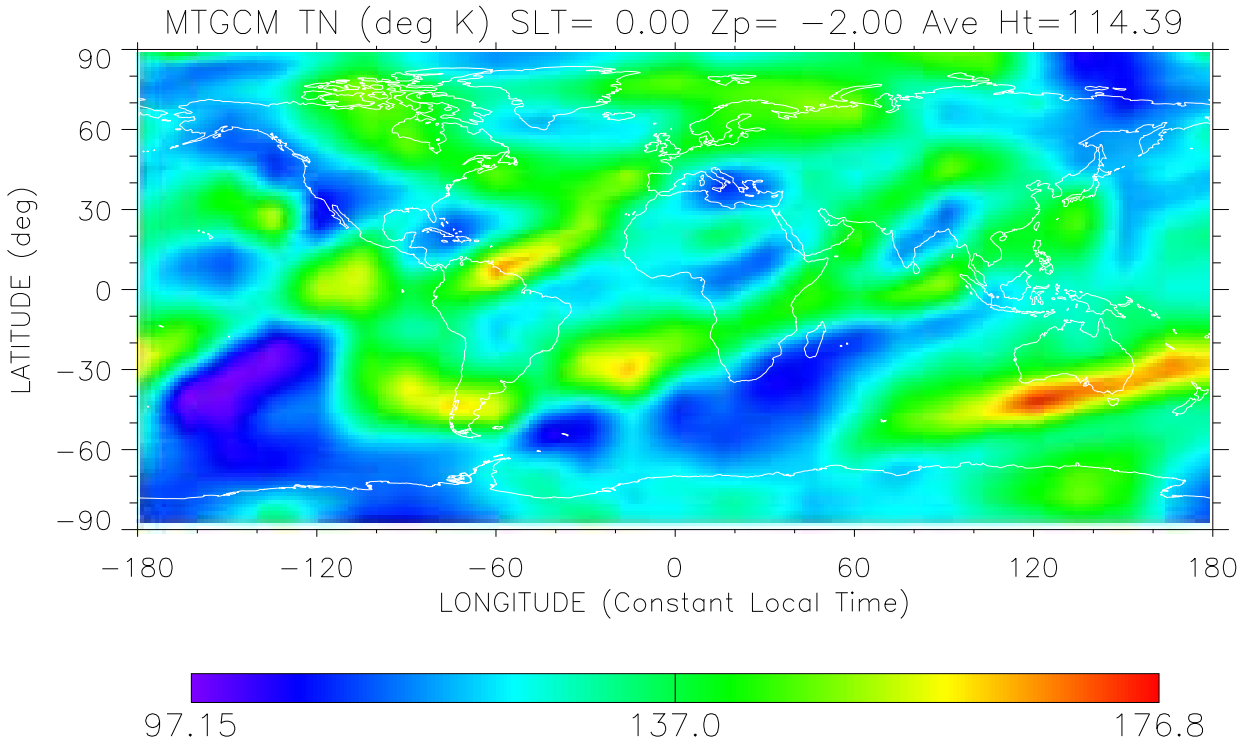
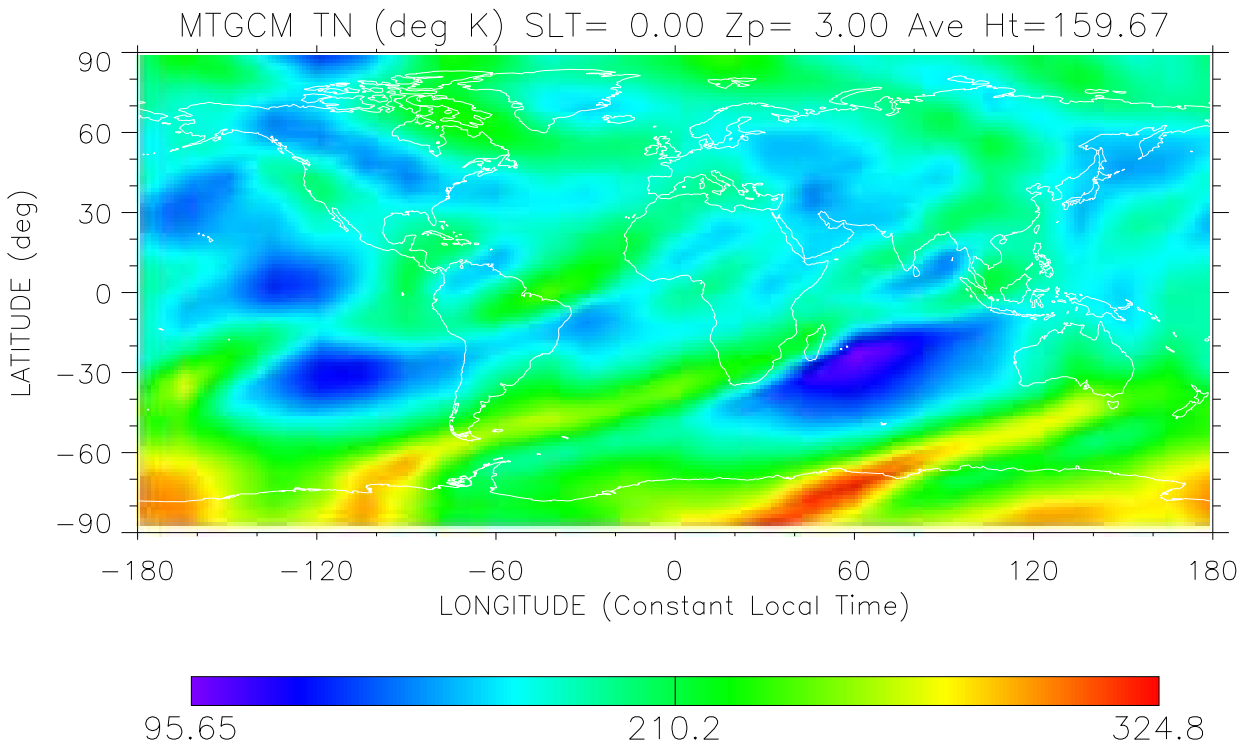
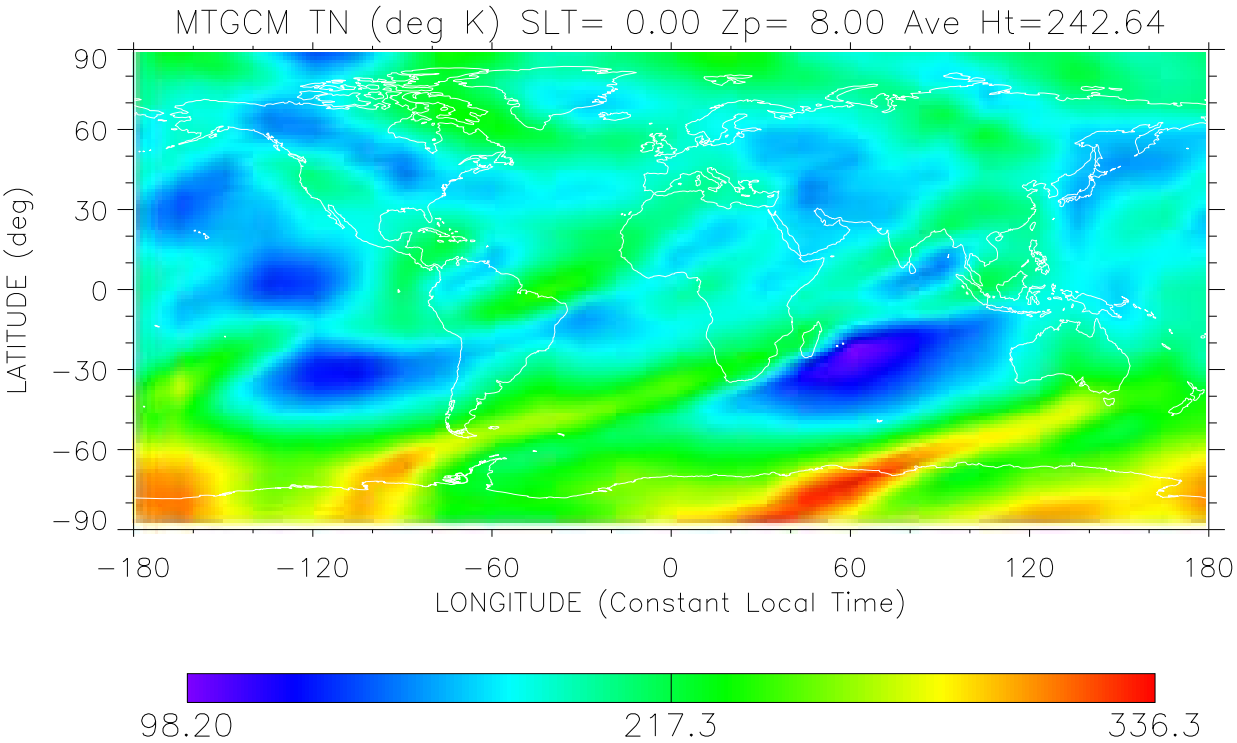
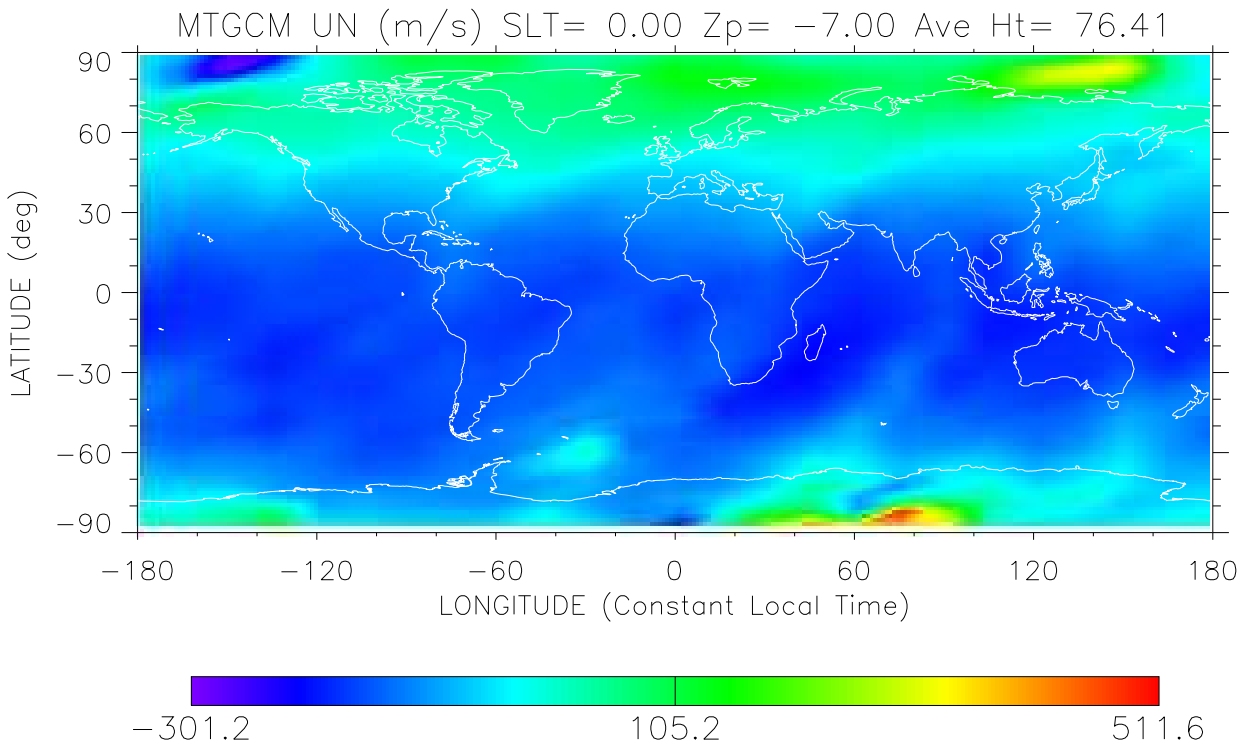

MAVEN Density: min,max= 1.00000e−06 2.17749 (kg/km^3)
Altitude (km)
600
500
400
300
200
100
10
20
30
40
50
60
70
Latitude (deg)
1.000e−06
1.089
2.177

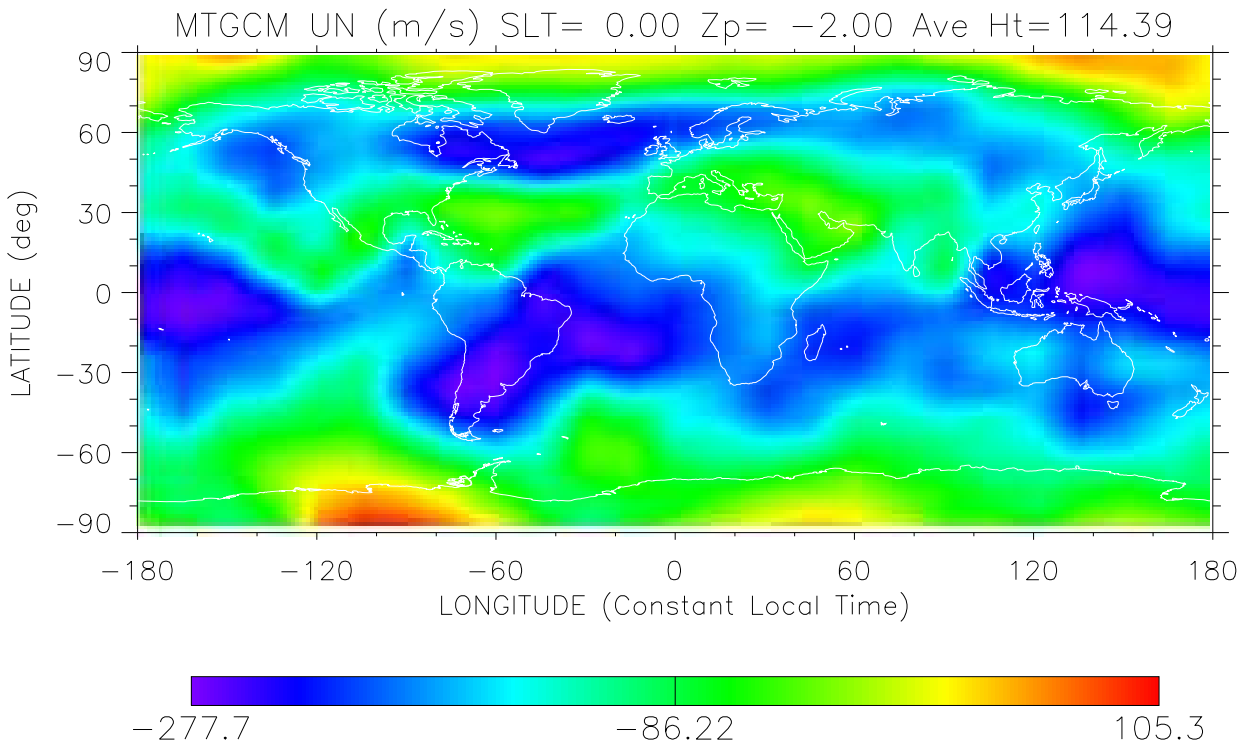

MTGCM TN (deg K) SLT= 0.00 Zp= −7.00 Ave Ht= 76.41
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
124.6
237.6
350.6

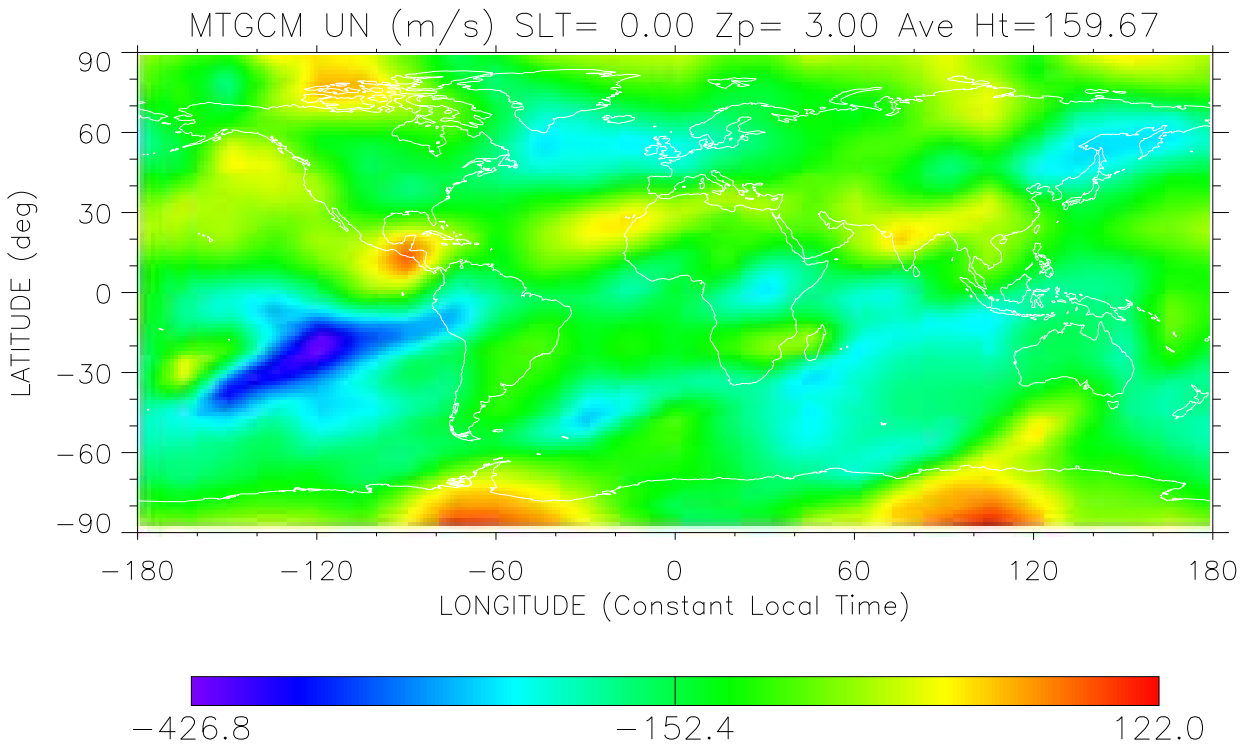

MTGCM TN (deg K) SLT= 0.00 Zp= −2.00 Ave Ht=114.39
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
97.15
137.0
176.8

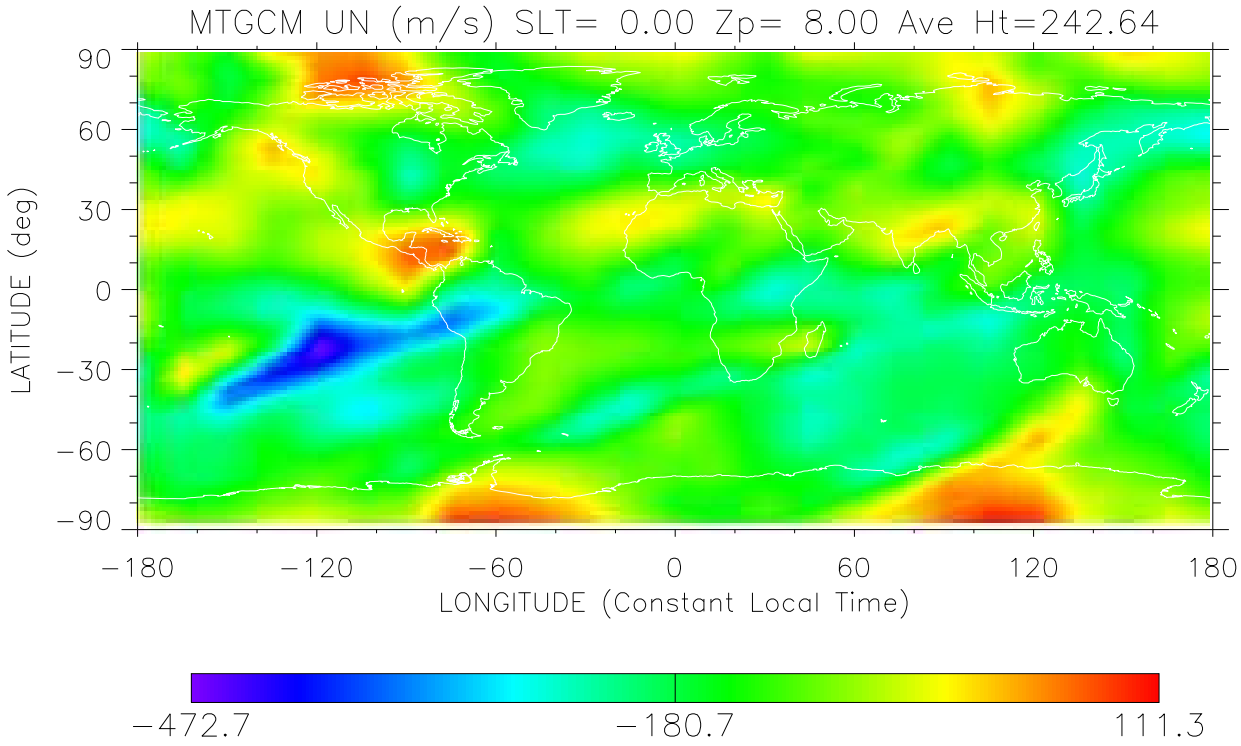

MTGCM TN (deg K) SLT= 0.00 Zp= 3.00 Ave Ht=159.67
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
95.65
210.2
324.8

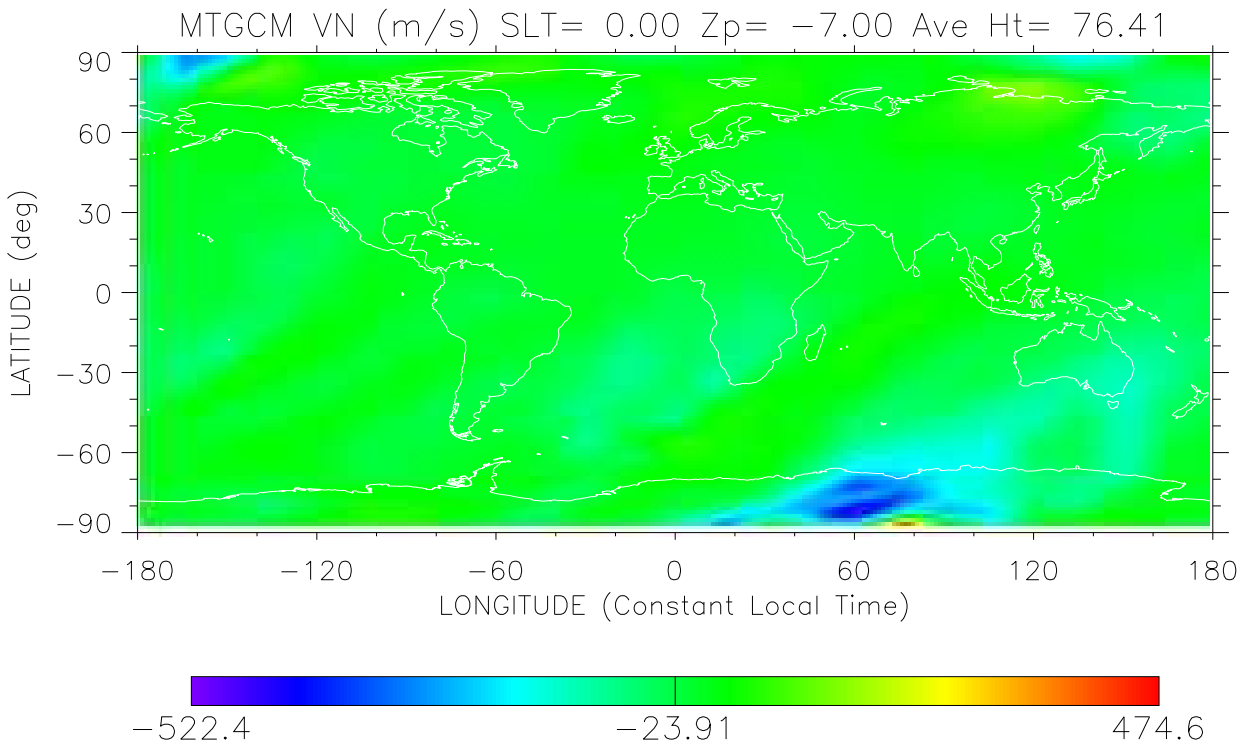

MTGCM TN (deg K) SLT= 0.00 Zp= 8.00 Ave Ht=242.64
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
98.20
217.3
336.3

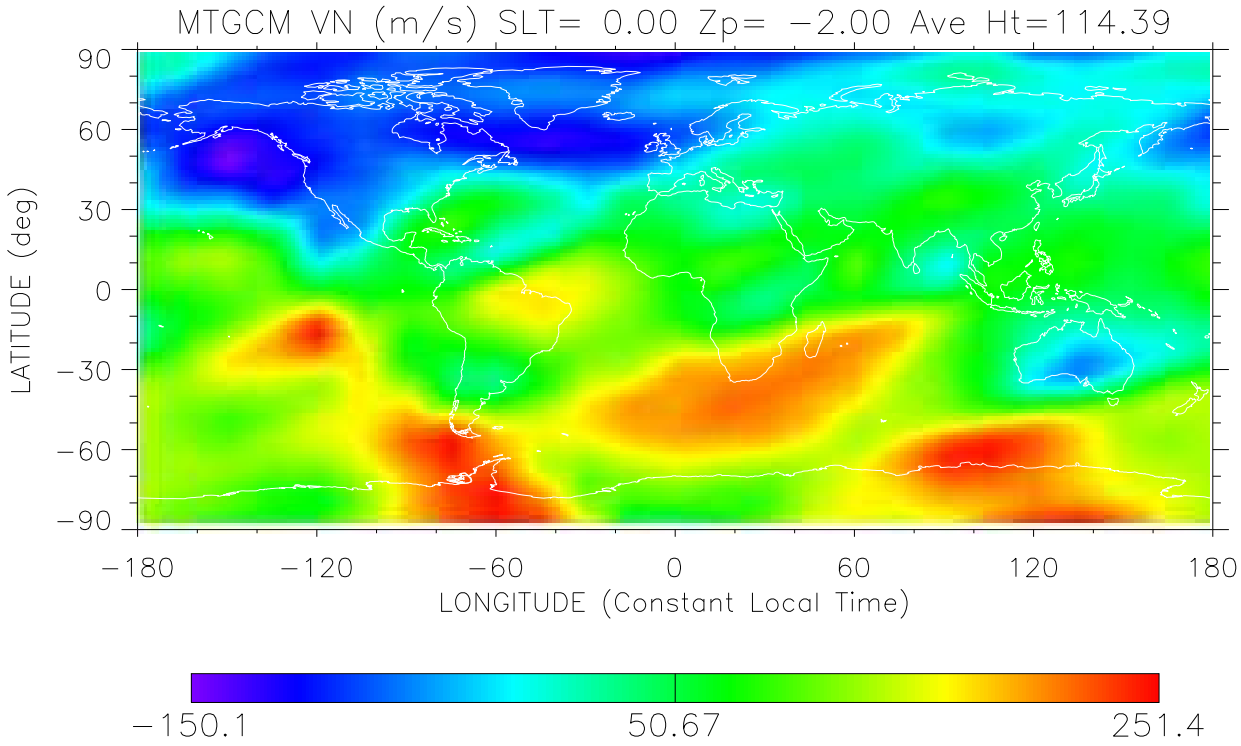

MTGCM UN (m/s) SLT= 0.00 Zp= −7.00 Ave Ht= 76.41
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−301.2
105.2
511.6

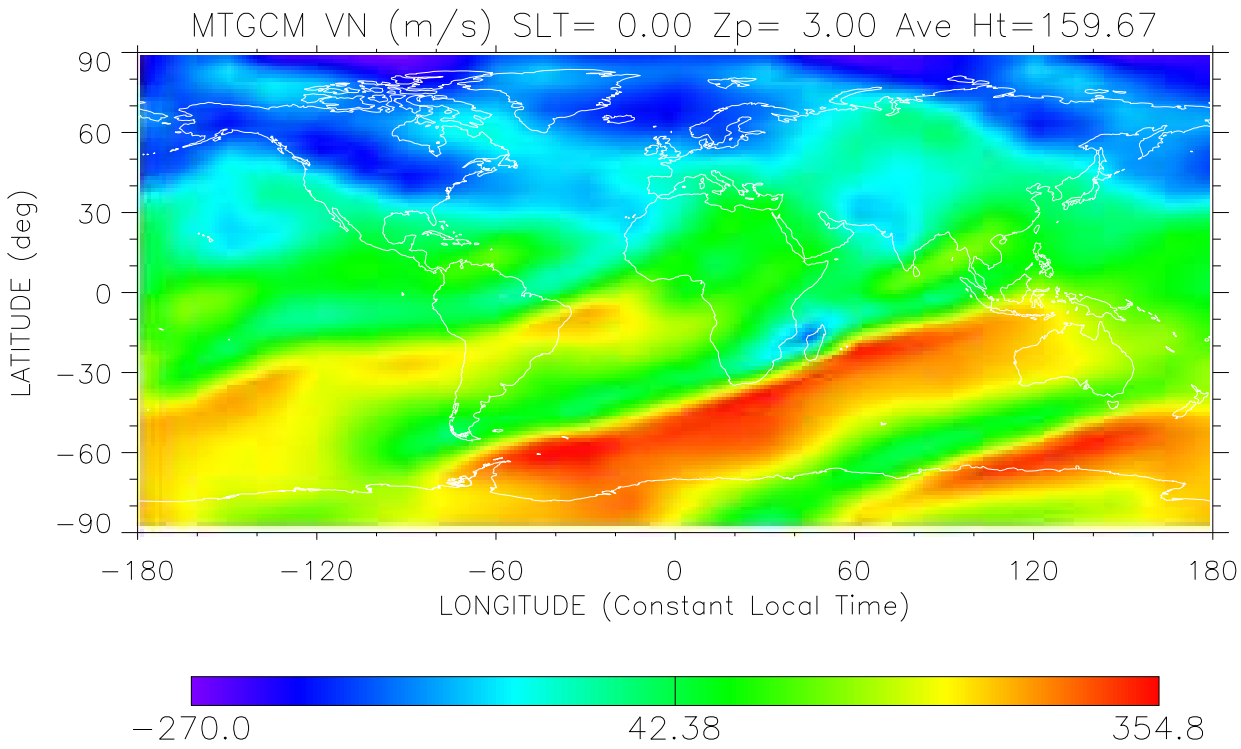

MTGCM UN (m/s) SLT= 0.00 Zp= −2.00 Ave Ht=114.39
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−277.7
−86.22
105.3

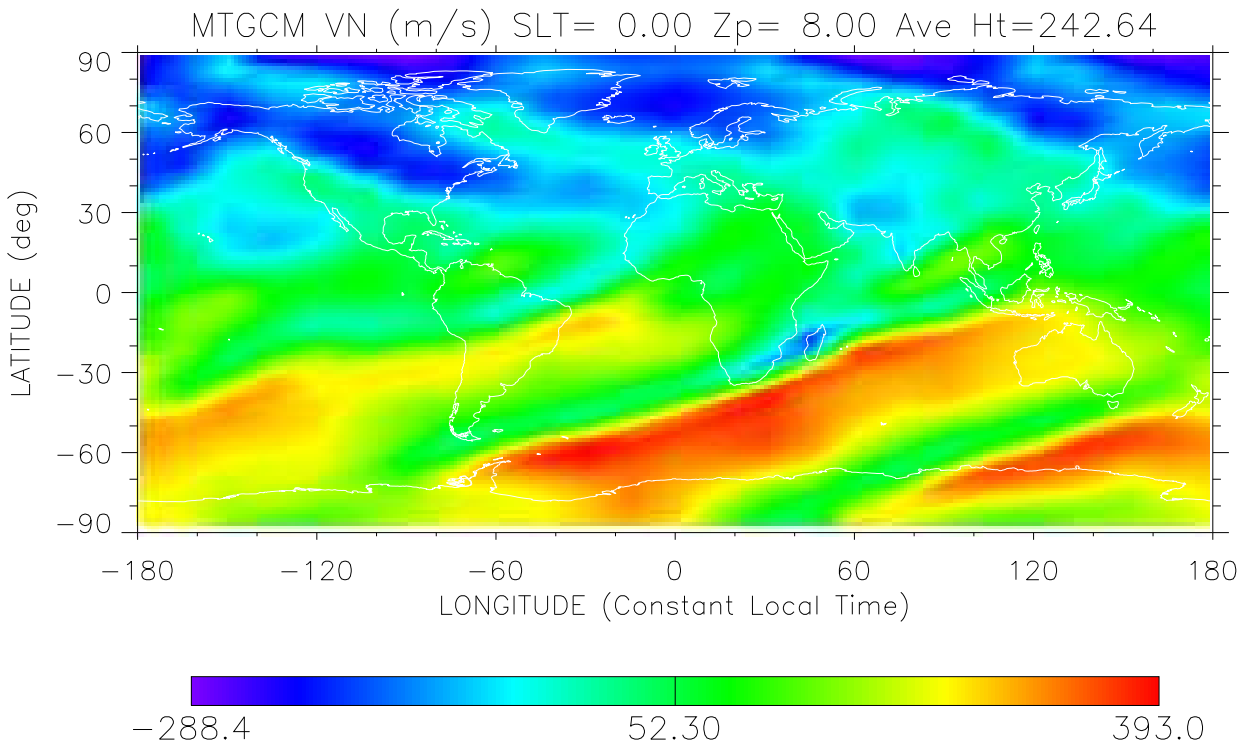

MTGCM UN (m/s) SLT= 0.00 Zp= 3.00 Ave Ht=159.67
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−426.8
−152.4
122.0

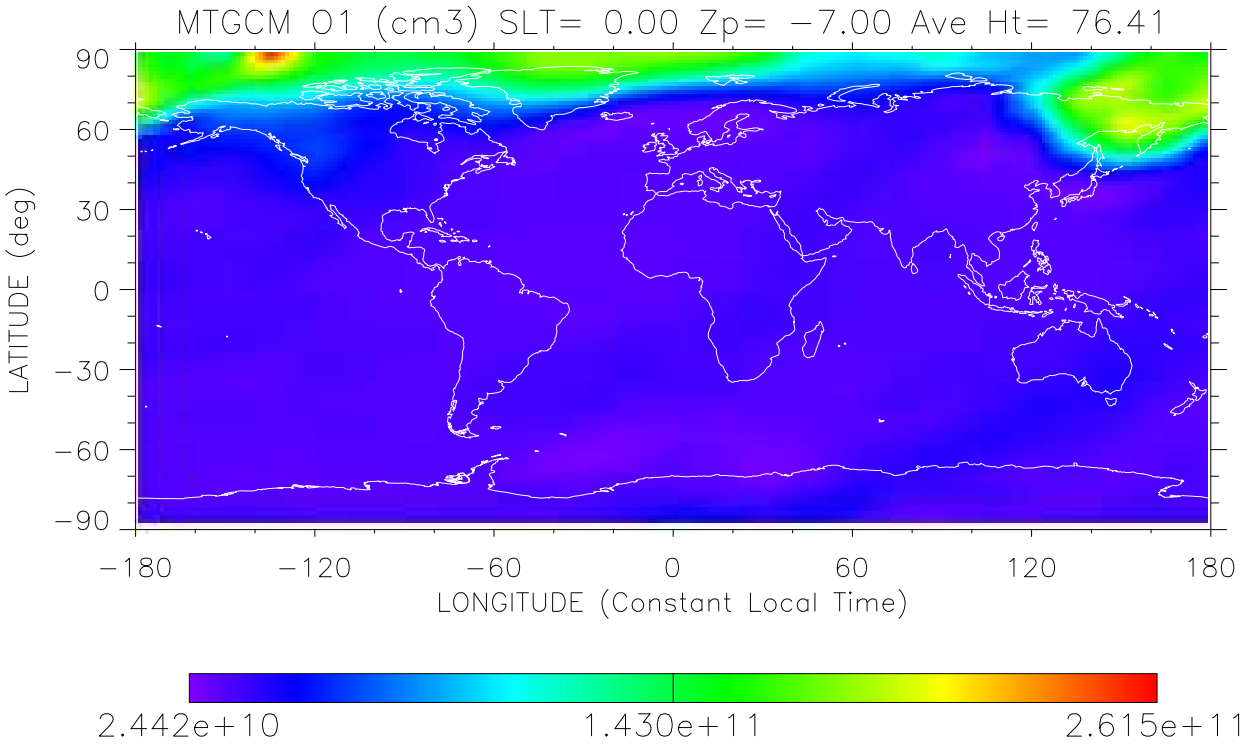

MTGCM UN (m/s) SLT= 0.00 Zp= 8.00 Ave Ht=242.64
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−472.7
−180.7
111.3

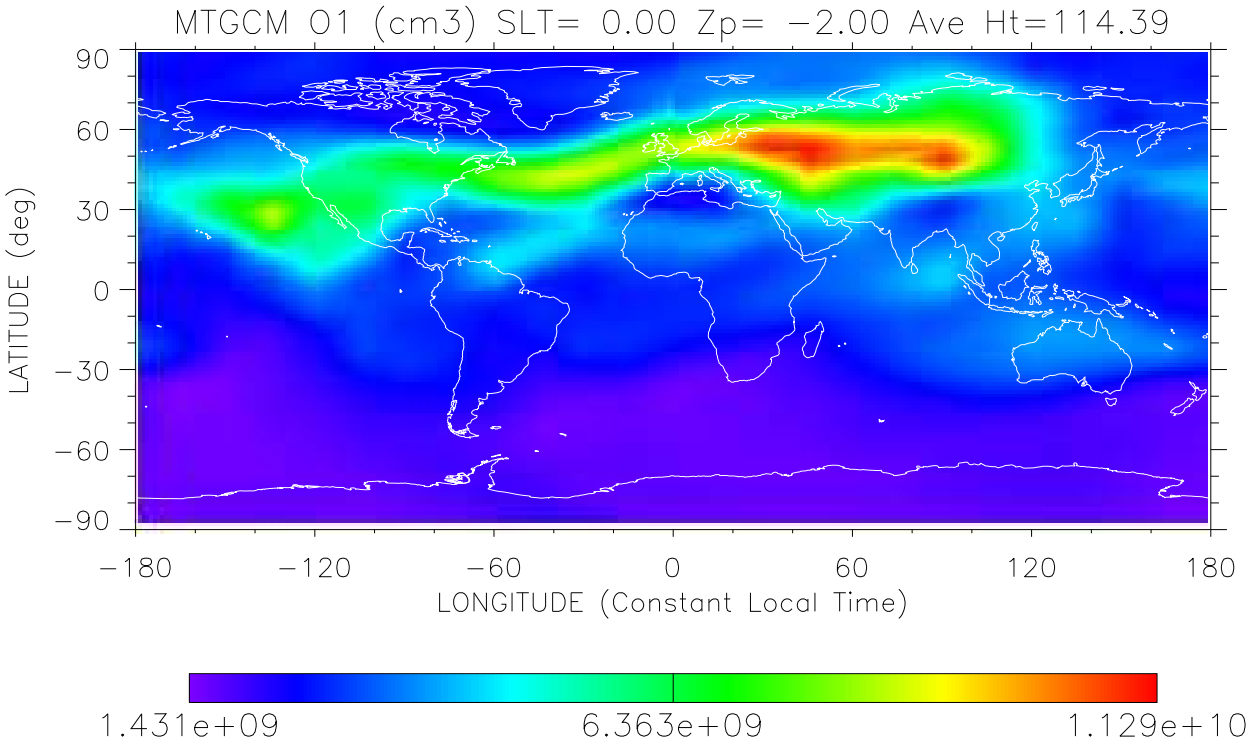

MTGCM VN (m/s) SLT= 0.00 Zp= −7.00 Ave Ht= 76.41
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−522.4
−23.91
474.6

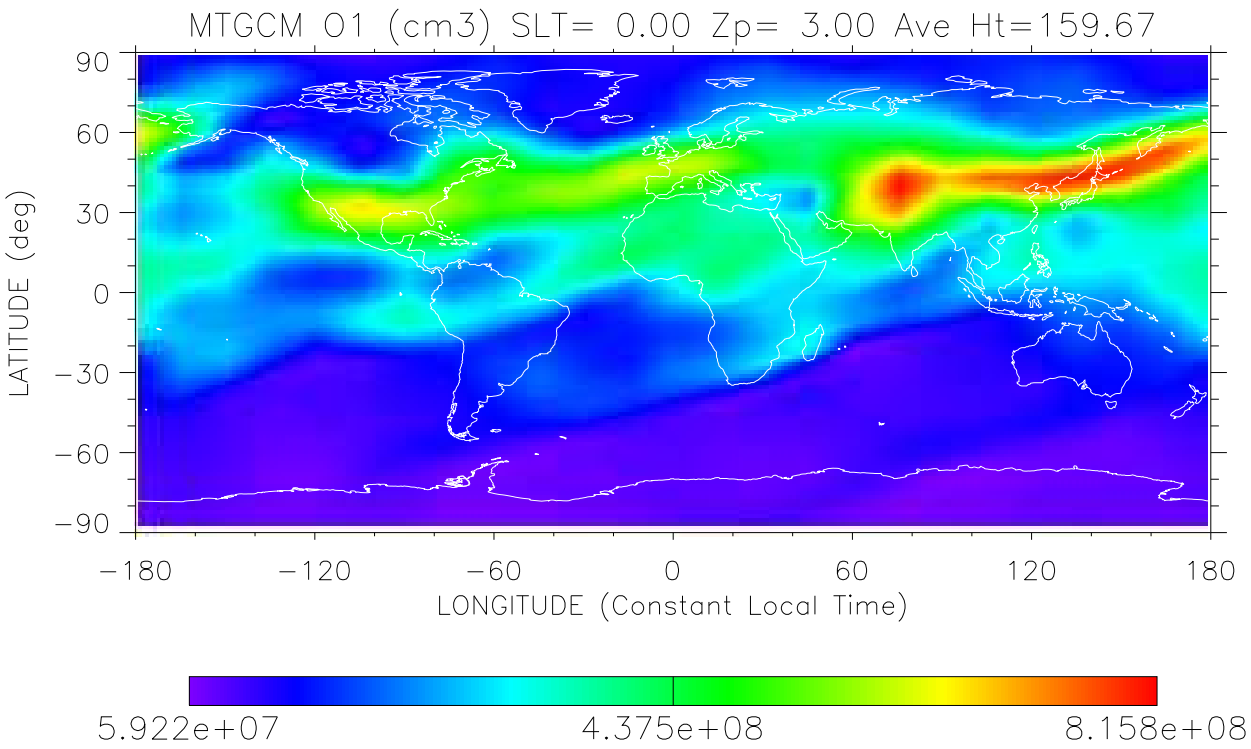

MTGCM VN (m/s) SLT= 0.00 Zp= −2.00 Ave Ht=114.39
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−150.1
50.67
251.4

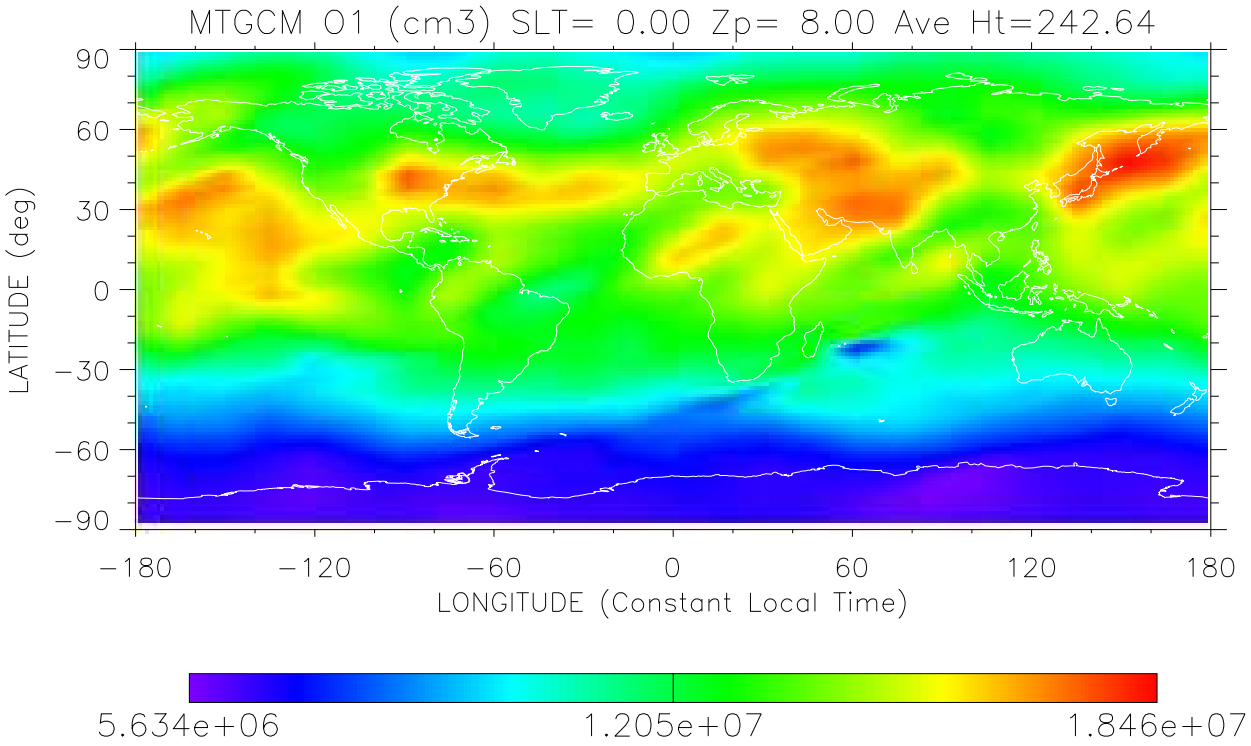

MTGCM VN (m/s) SLT= 0.00 Zp= 3.00 Ave Ht=159.67
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−270.0
42.38
354.8

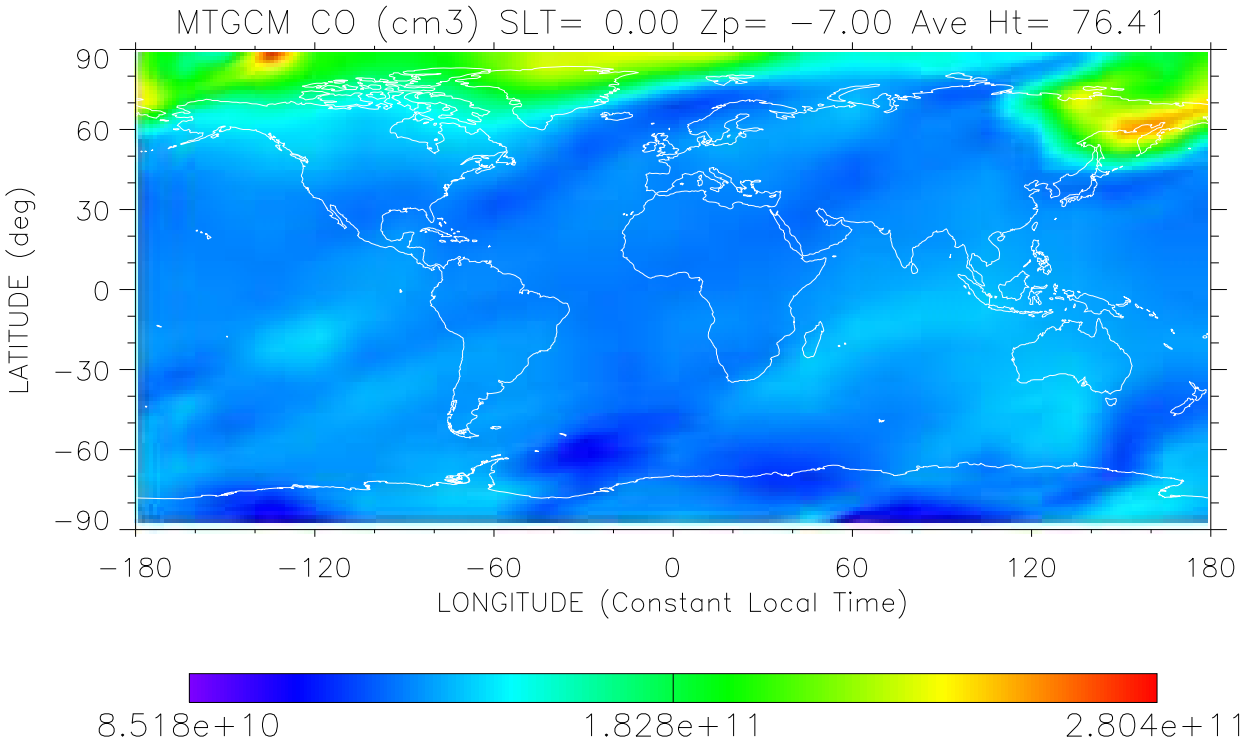

MTGCM VN (m/s) SLT= 0.00 Zp= 8.00 Ave Ht=242.64
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
−288.4
52.30
393.0

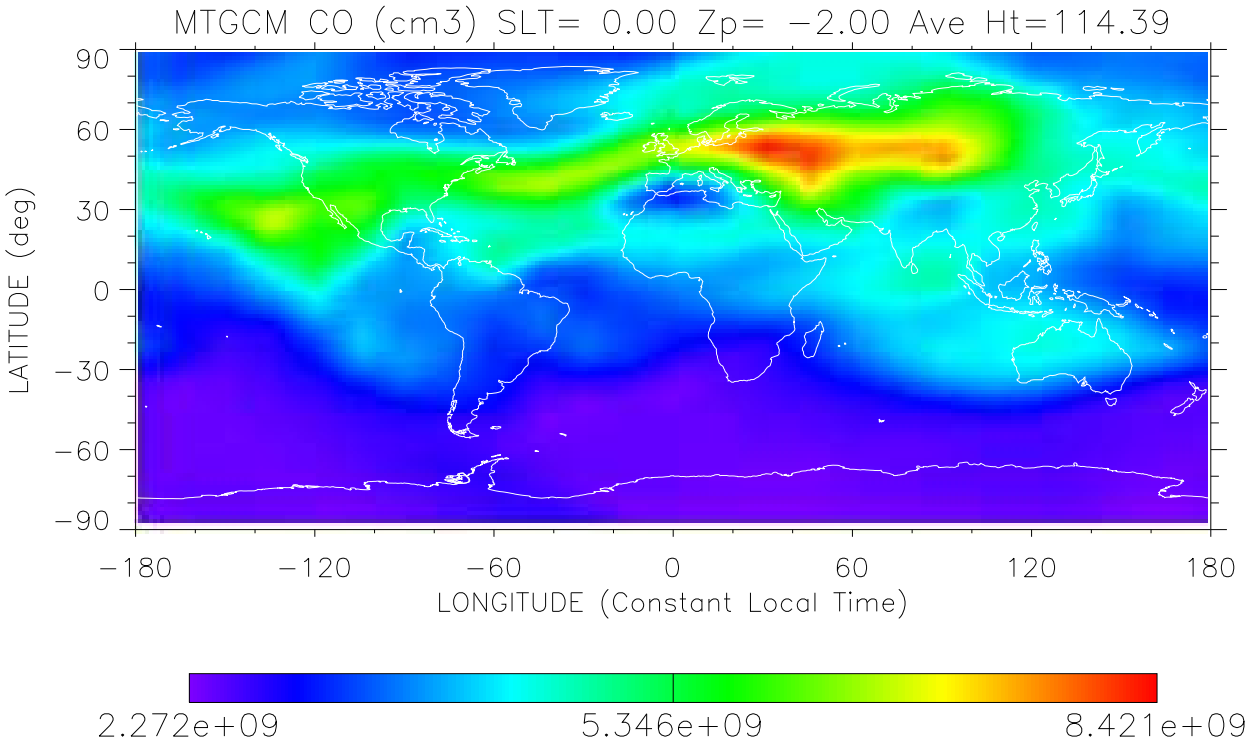

MTGCM O1 (cm3) SLT= 0.00 Zp= −7.00 Ave Ht= 76.41
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
2.442e+10
1.430e+11
2.615e+11

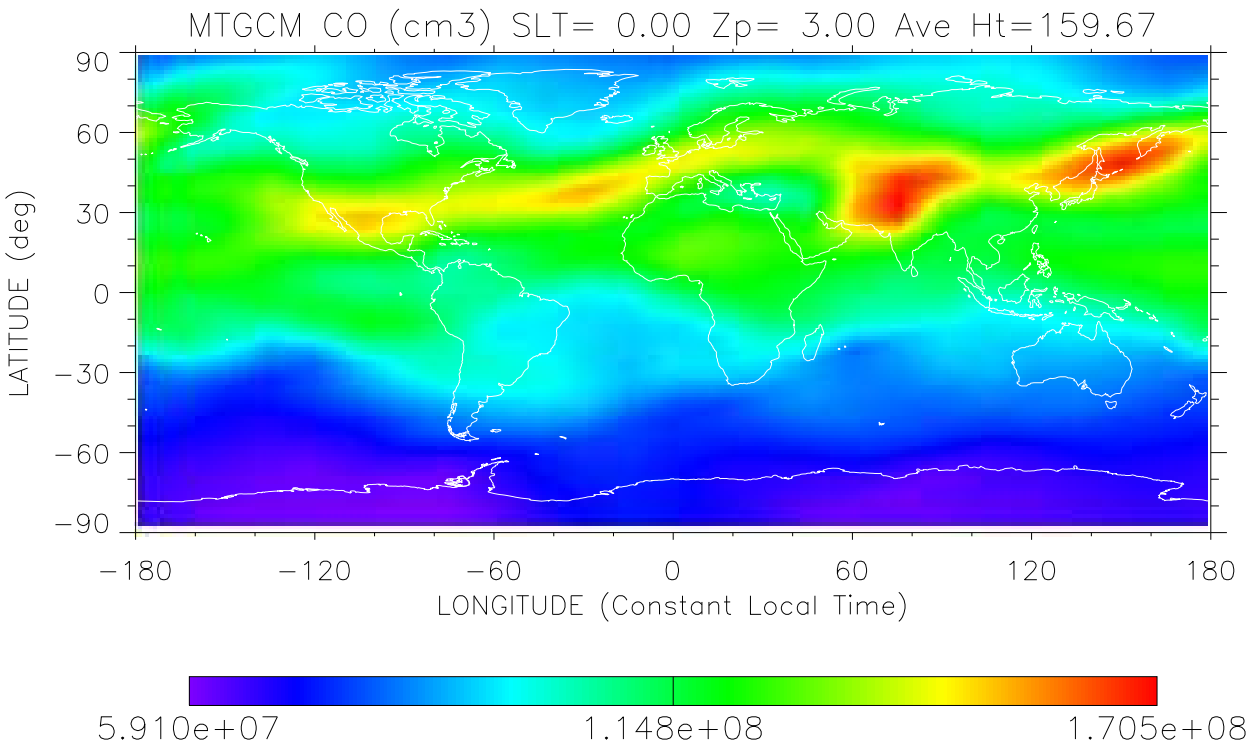

MTGCM O1 (cm3) SLT= 0.00 Zp= −2.00 Ave Ht=114.39
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.431e+09
6.363e+09
1.129e+10

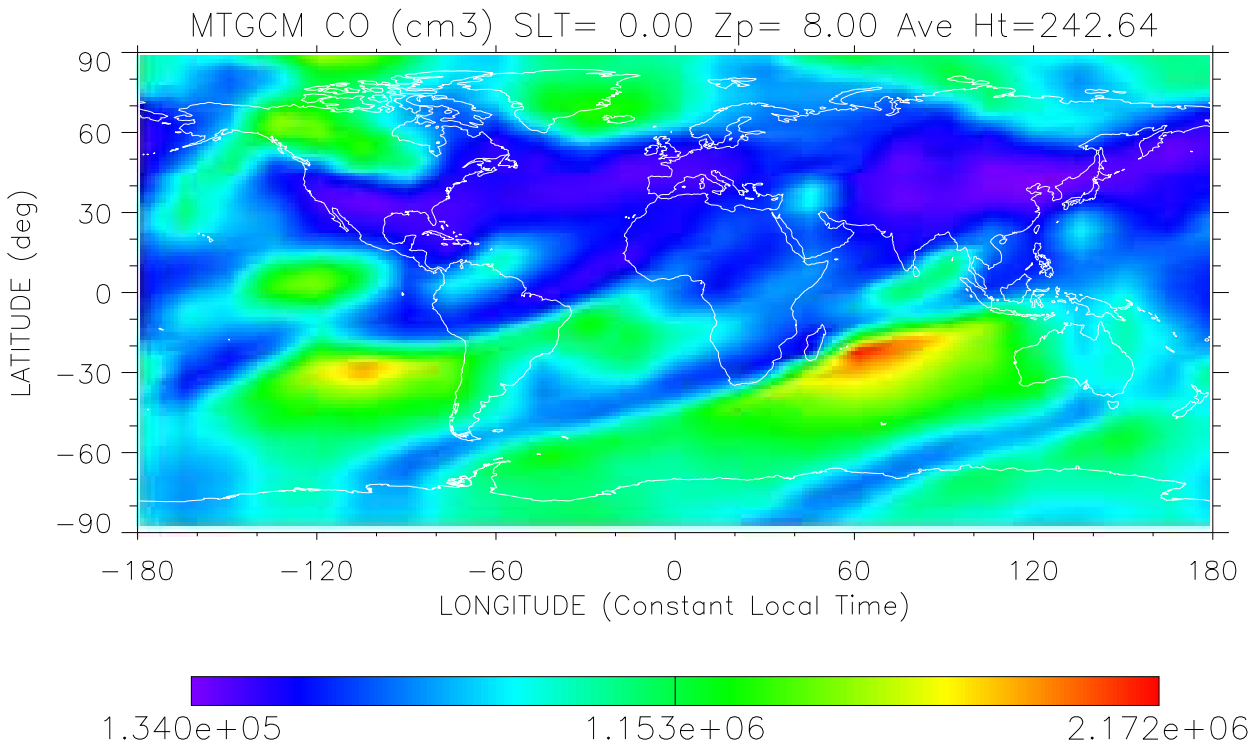

MTGCM O1 (cm3) SLT= 0.00 Zp= 3.00 Ave Ht=159.67
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
5.922e+07
4.375e+08
8.158e+08

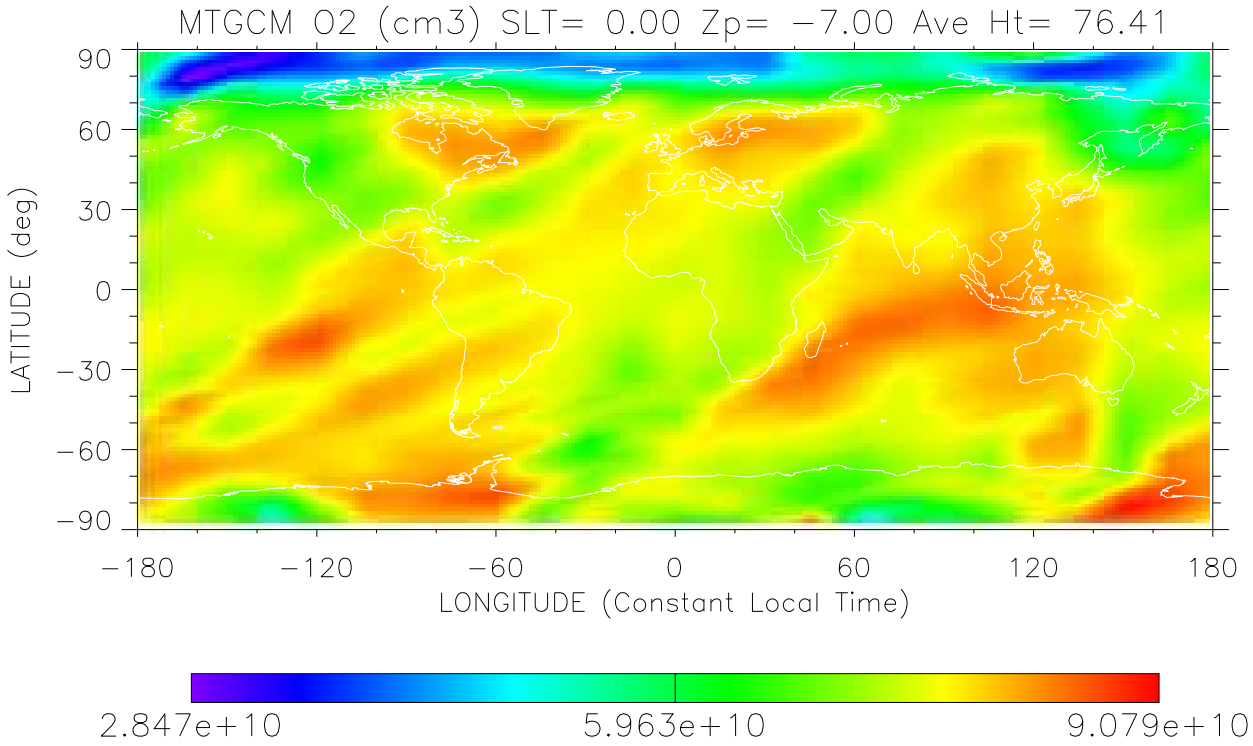

MTGCM O1 (cm3) SLT= 0.00 Zp= 8.00 Ave Ht=242.64
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
5.634e+06
1.205e+07
1.846e+07

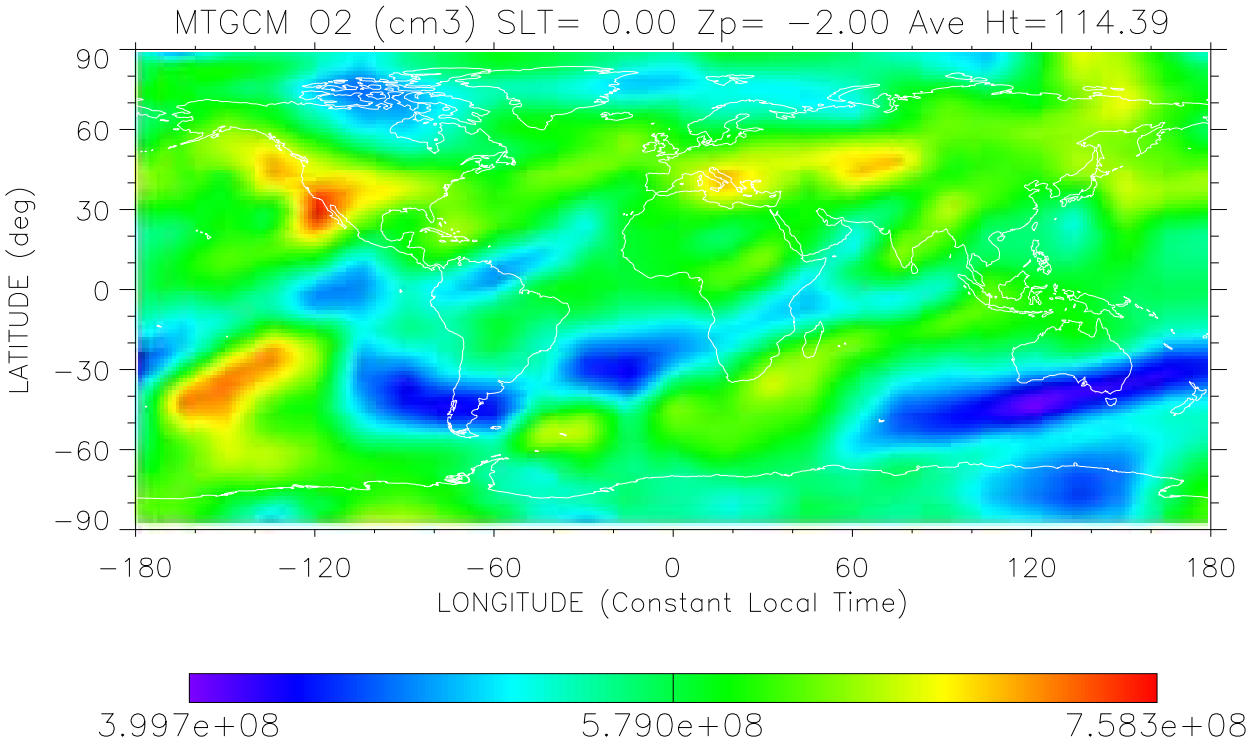

MTGCM CO (cm3) SLT= 0.00 Zp= −7.00 Ave Ht= 76.41
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
8.518e+10
1.828e+11
2.804e+11

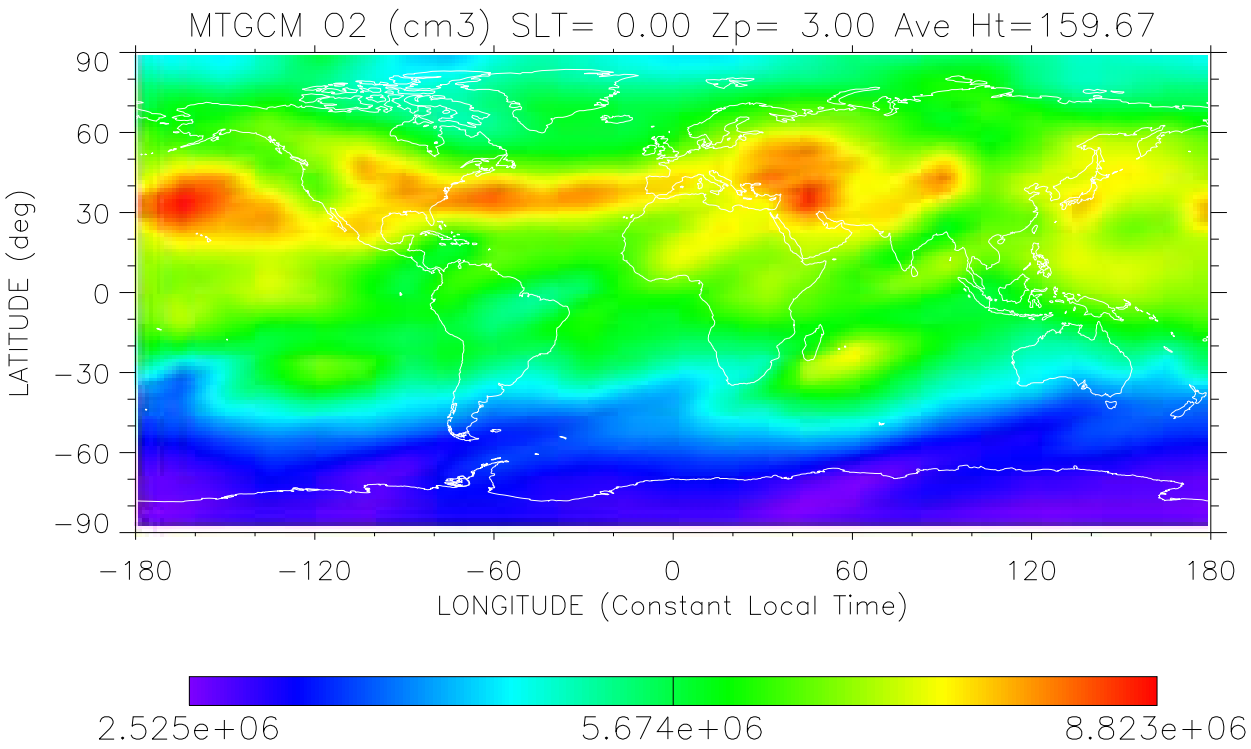

MTGCM CO (cm3) SLT= 0.00 Zp= −2.00 Ave Ht=114.39
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
2.272e+09
5.346e+09
8.421e+09

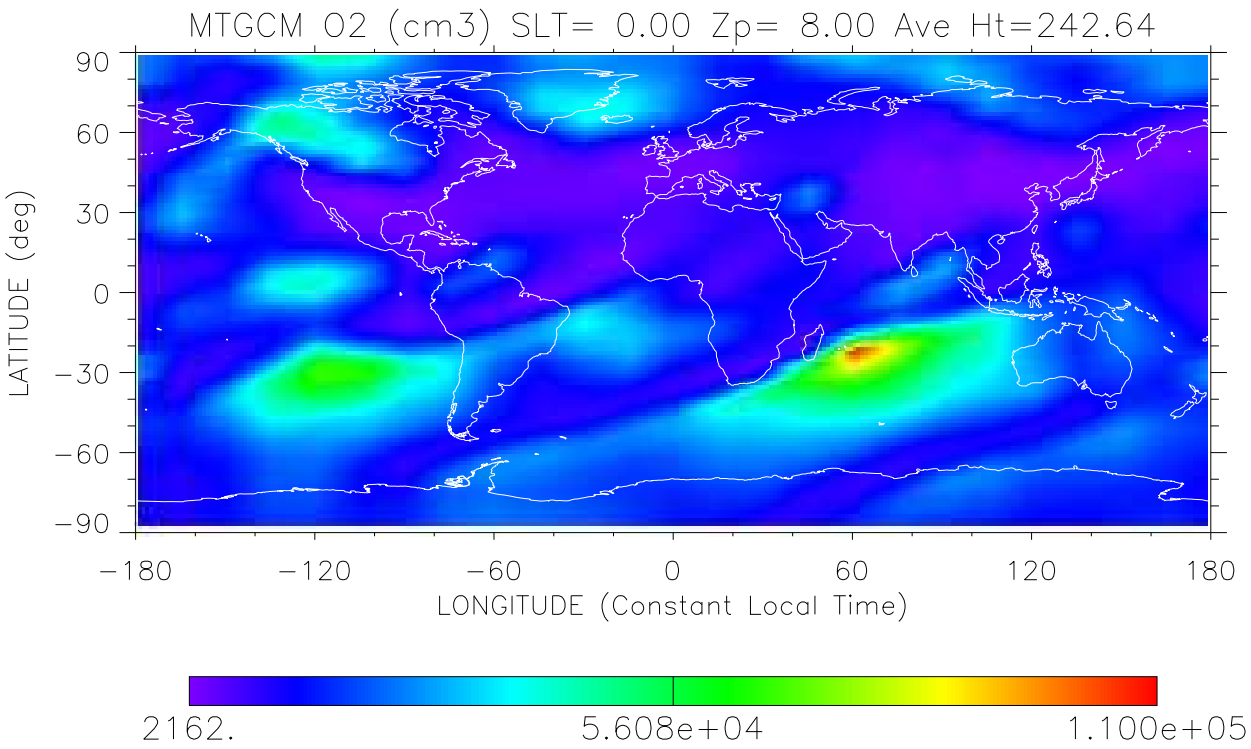

MTGCM CO (cm3) SLT= 0.00 Zp= 3.00 Ave Ht=159.67
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
5.910e+07
1.148e+08
1.705e+08

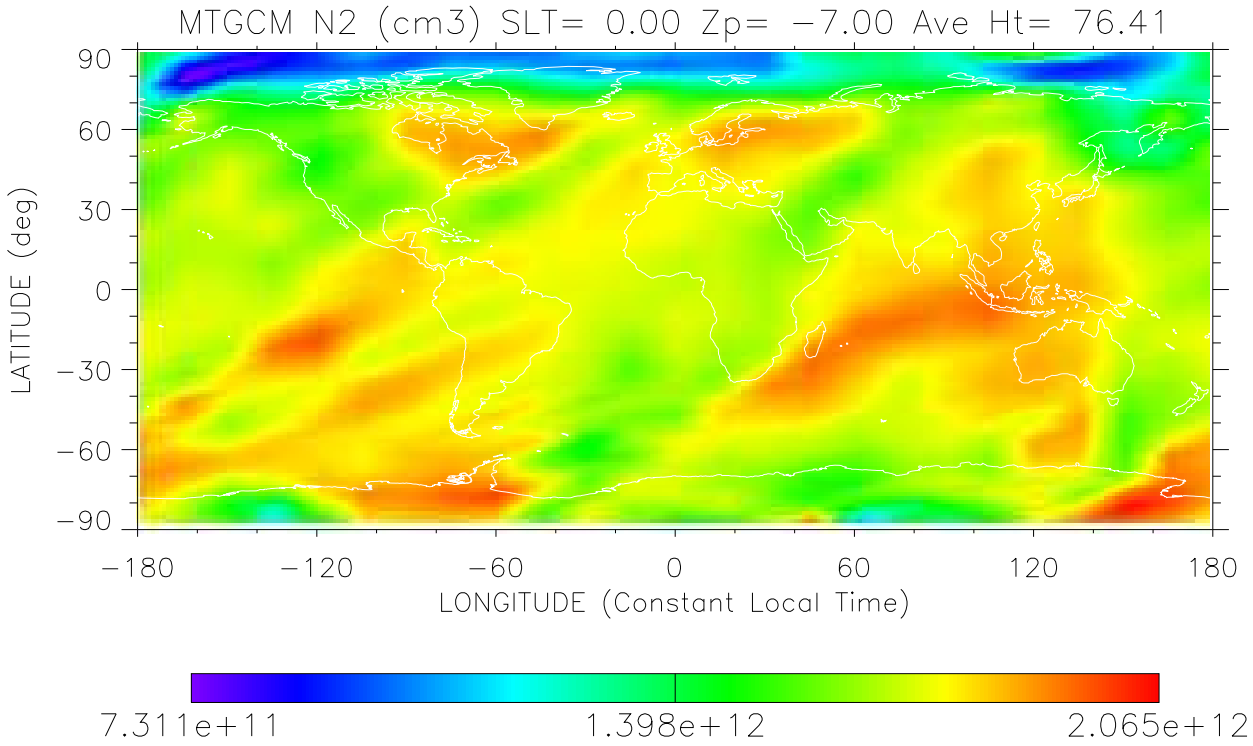

MTGCM CO (cm3) SLT= 0.00 Zp= 8.00 Ave Ht=242.64
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.340e+05
1.153e+06
2.172e+06

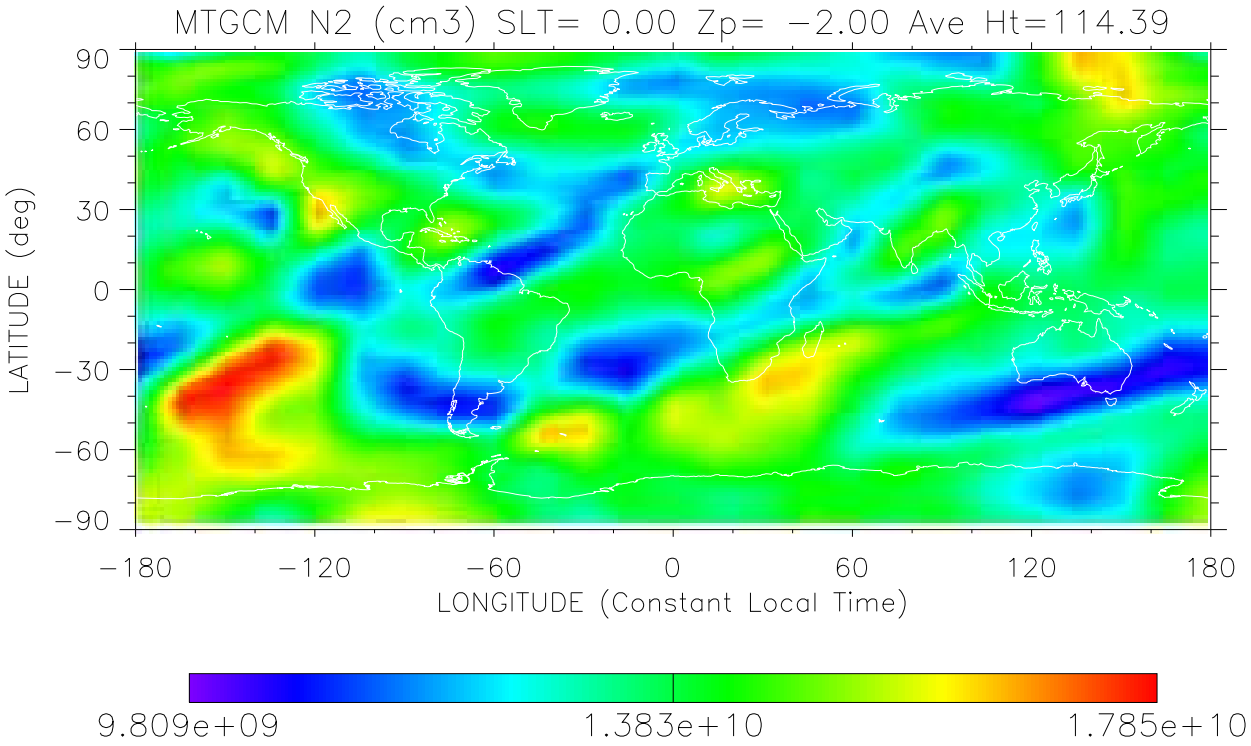

MTGCM O2 (cm3) SLT= 0.00 Zp= −7.00 Ave Ht= 76.41
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
2.847e+10
5.963e+10
9.079e+10

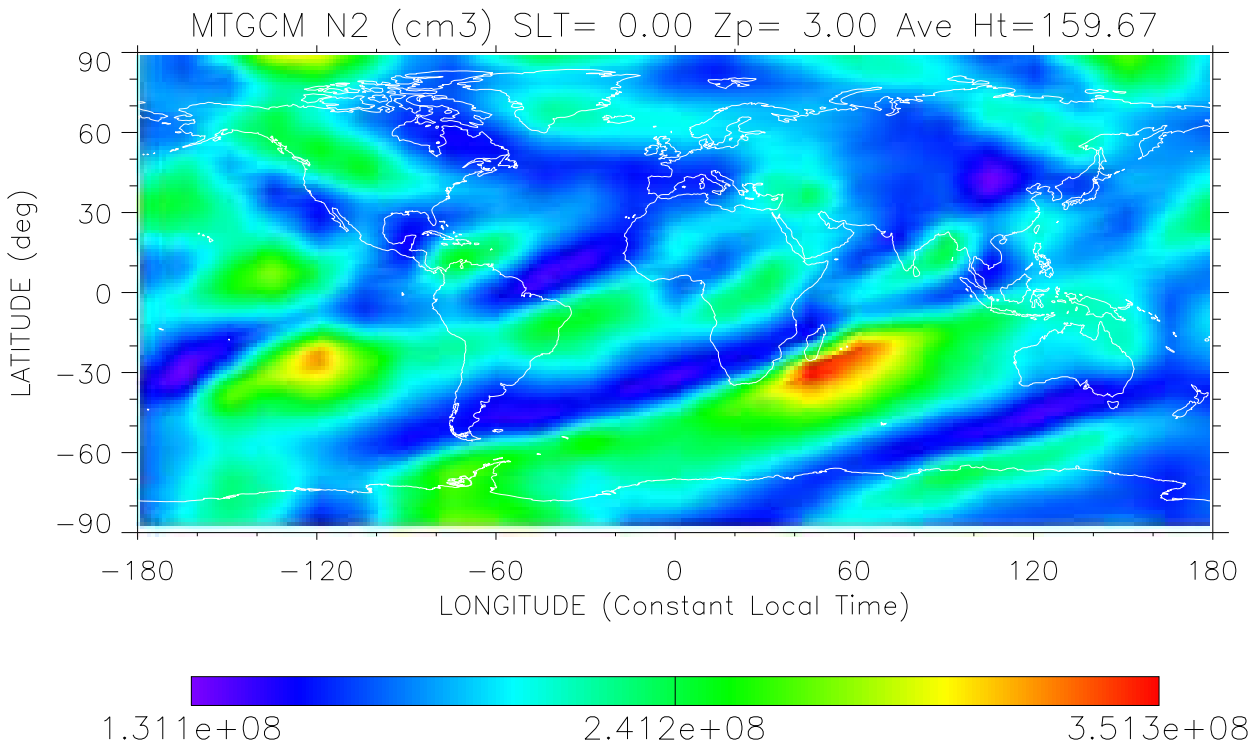

MTGCM O2 (cm3) SLT= 0.00 Zp= −2.00 Ave Ht=114.39
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
3.997e+08
5.790e+08
7.583e+08

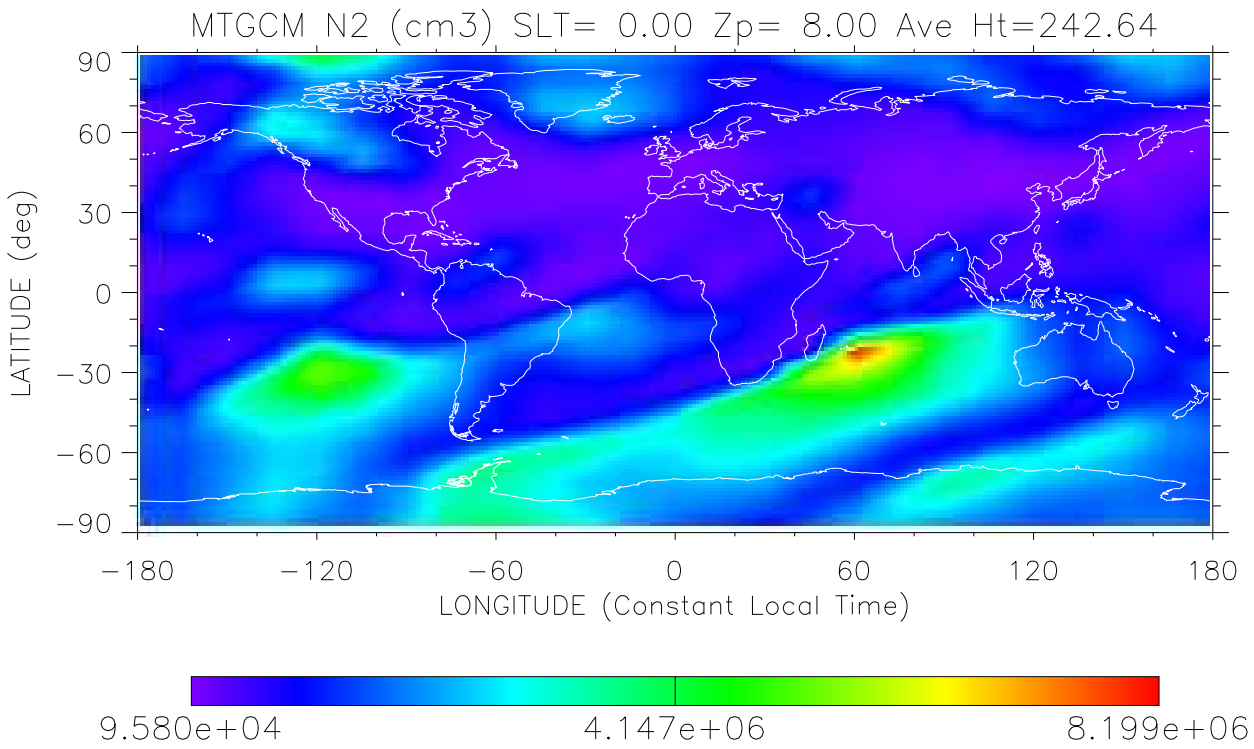

MTGCM O2 (cm3) SLT= 0.00 Zp= 3.00 Ave Ht=159.67
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
2.525e+06
5.674e+06
8.823e+06

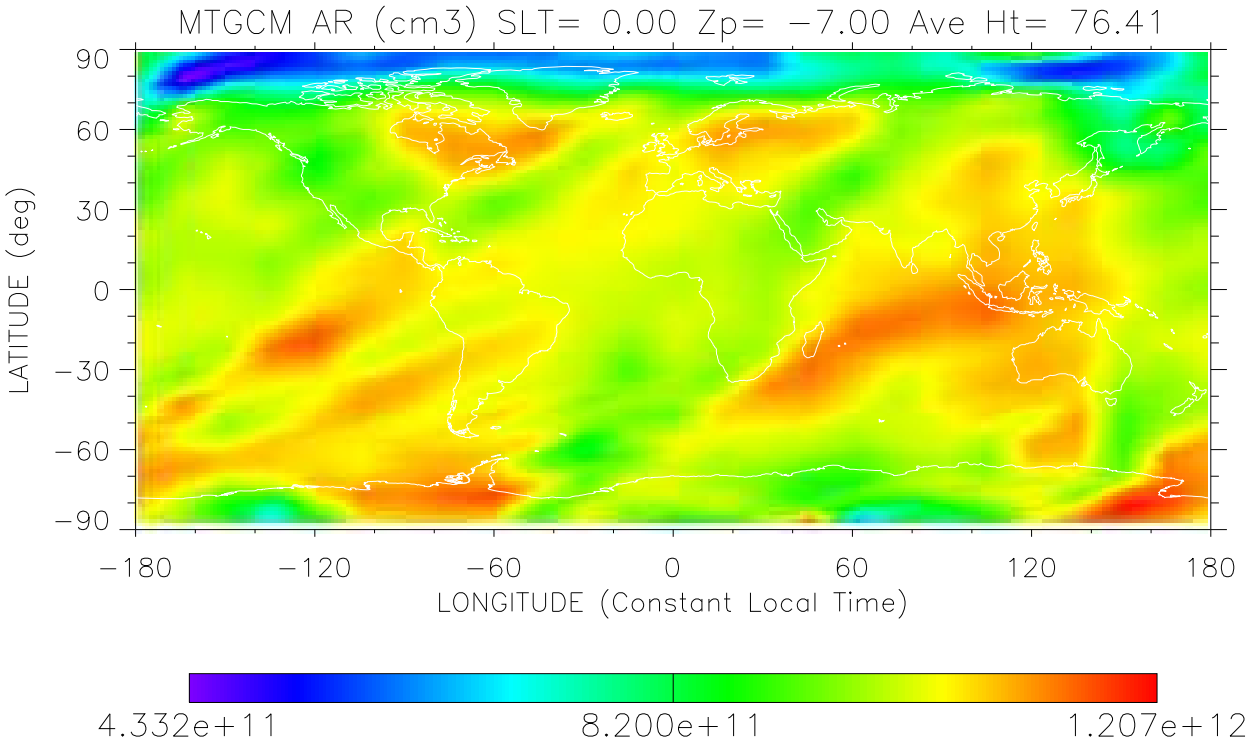

MTGCM O2 (cm3) SLT= 0.00 Zp= 8.00 Ave Ht=242.64
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
2162.
5.608e+04
1.100e+05

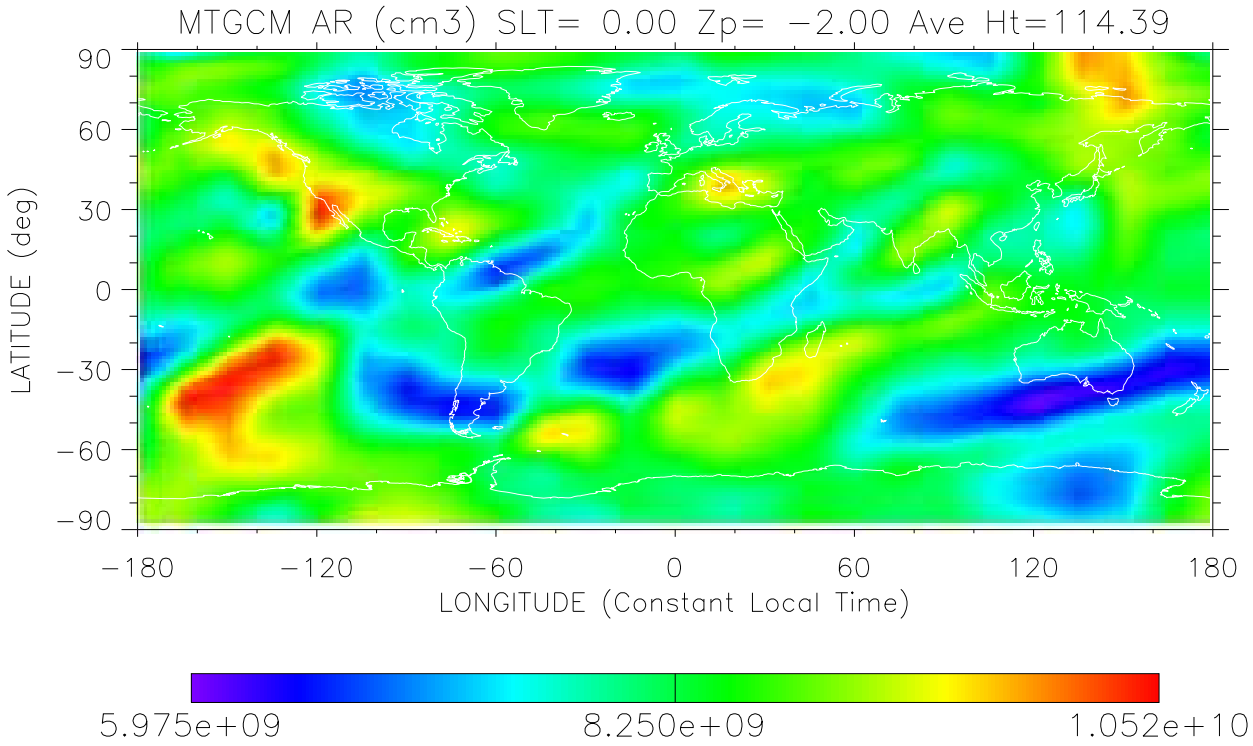

MTGCM N2 (cm3) SLT= 0.00 Zp= −7.00 Ave Ht= 76.41
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
7.311e+11
1.398e+12
2.065e+12

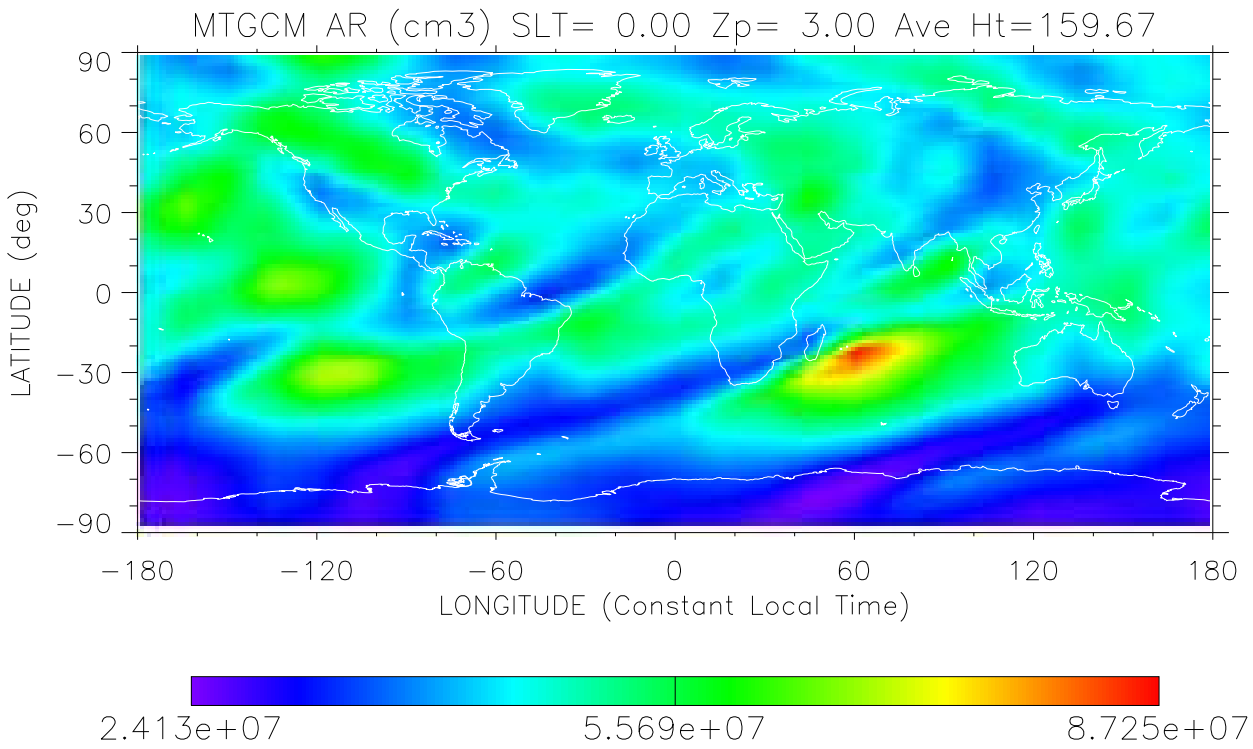

MTGCM N2 (cm3) SLT= 0.00 Zp= −2.00 Ave Ht=114.39
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
9.809e+09
1.383e+10
1.785e+10

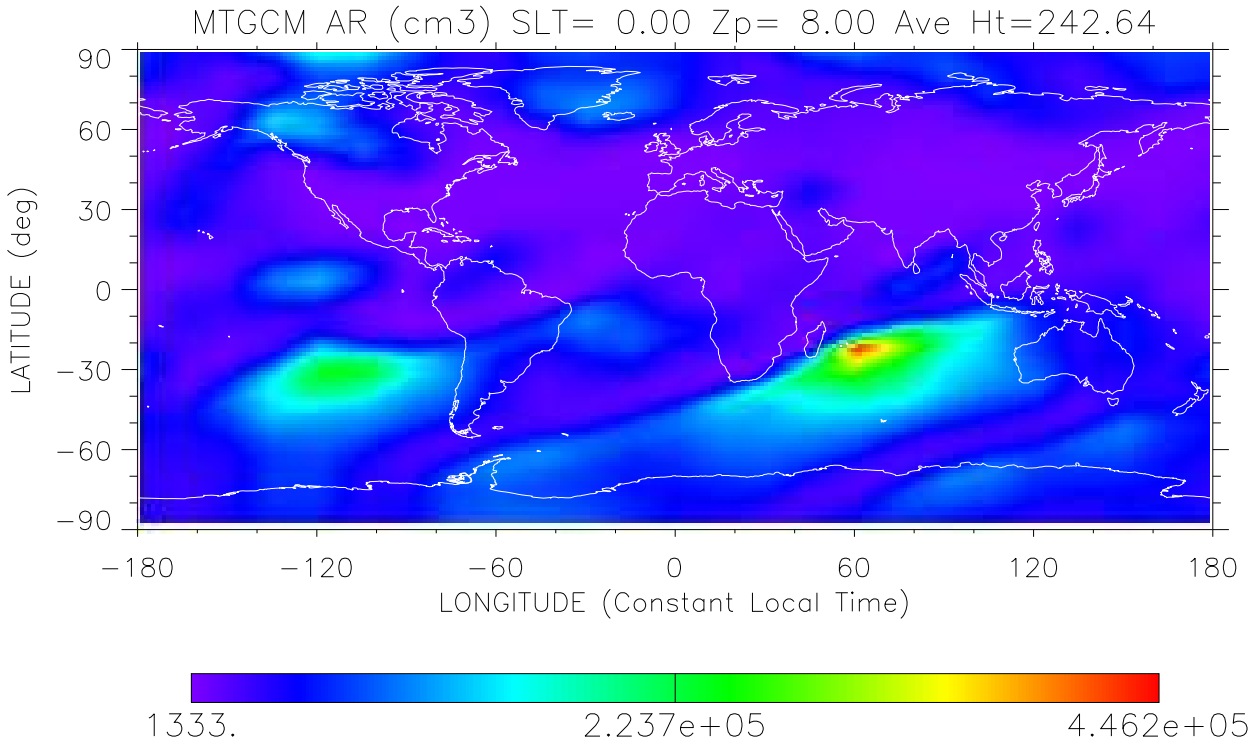

MTGCM N2 (cm3) SLT= 0.00 Zp= 3.00 Ave Ht=159.67
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.311e+08
2.412e+08
3.513e+08

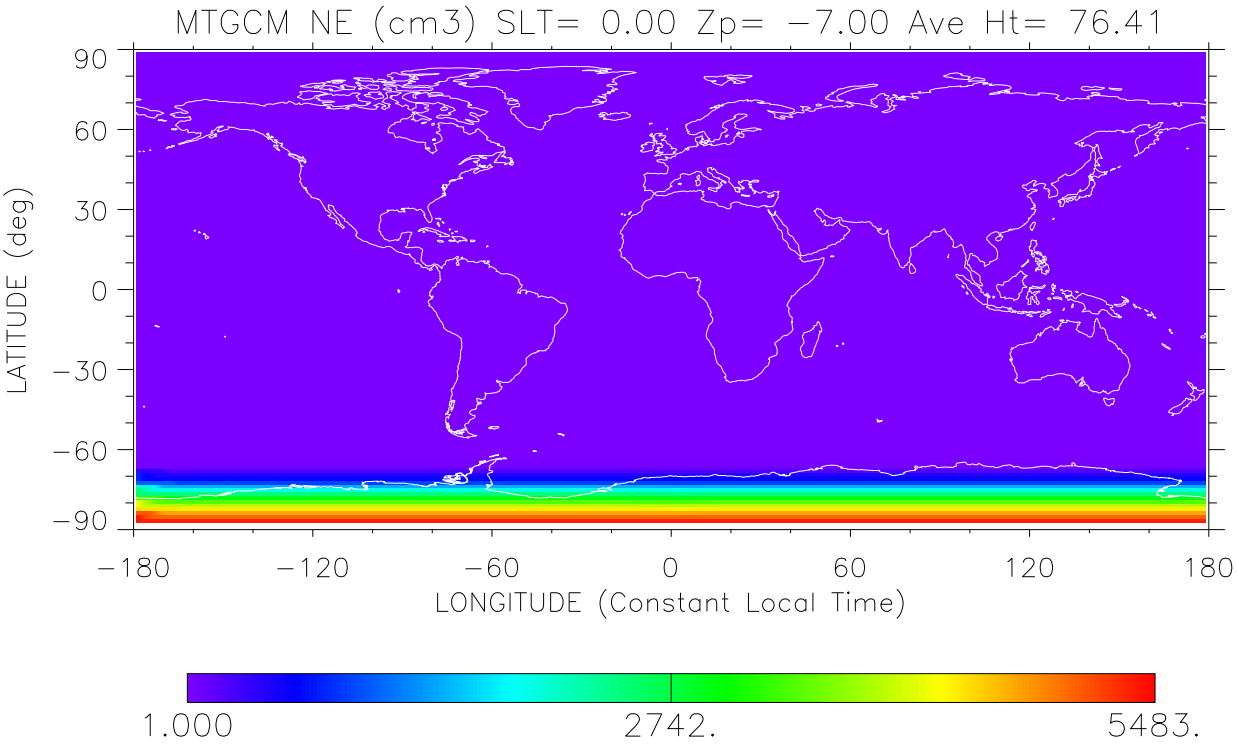

MTGCM N2 (cm3) SLT= 0.00 Zp= 8.00 Ave Ht=242.64
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
9.580e+04
4.147e+06
8.199e+06

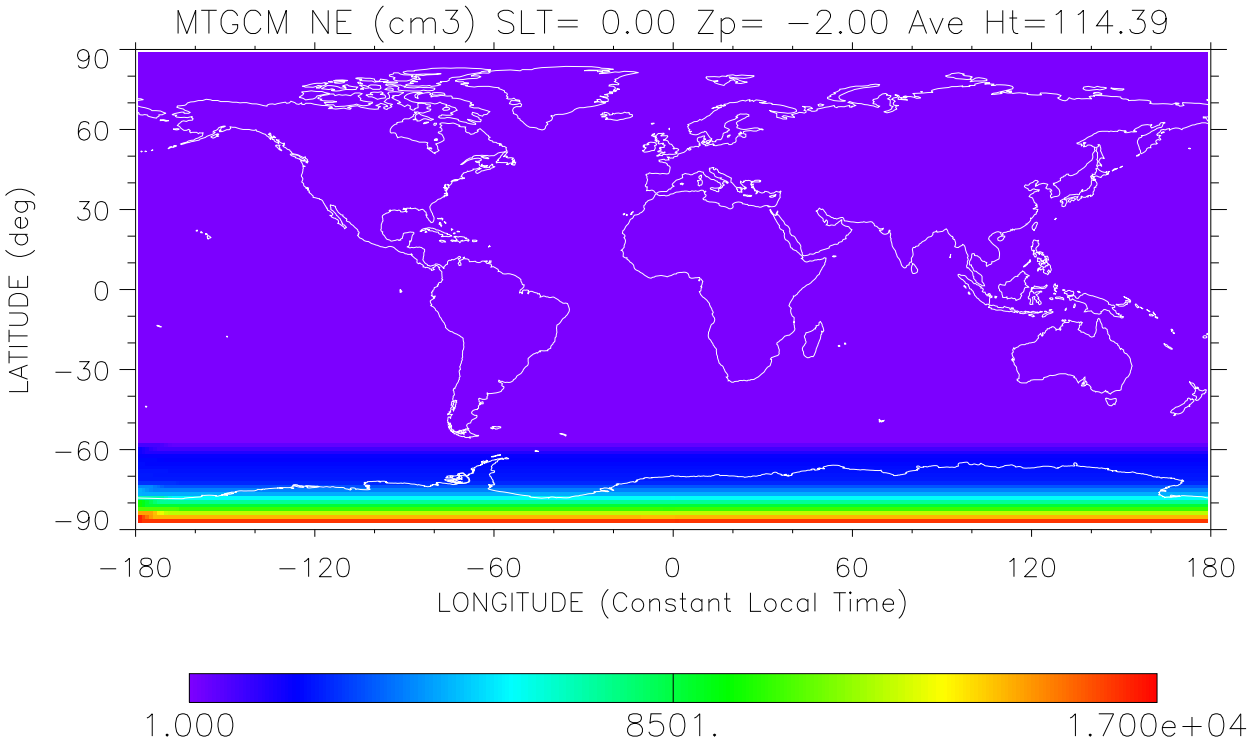

MTGCM AR (cm3) SLT= 0.00 Zp= −7.00 Ave Ht= 76.41
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
4.332e+11
8.200e+11
1.207e+12

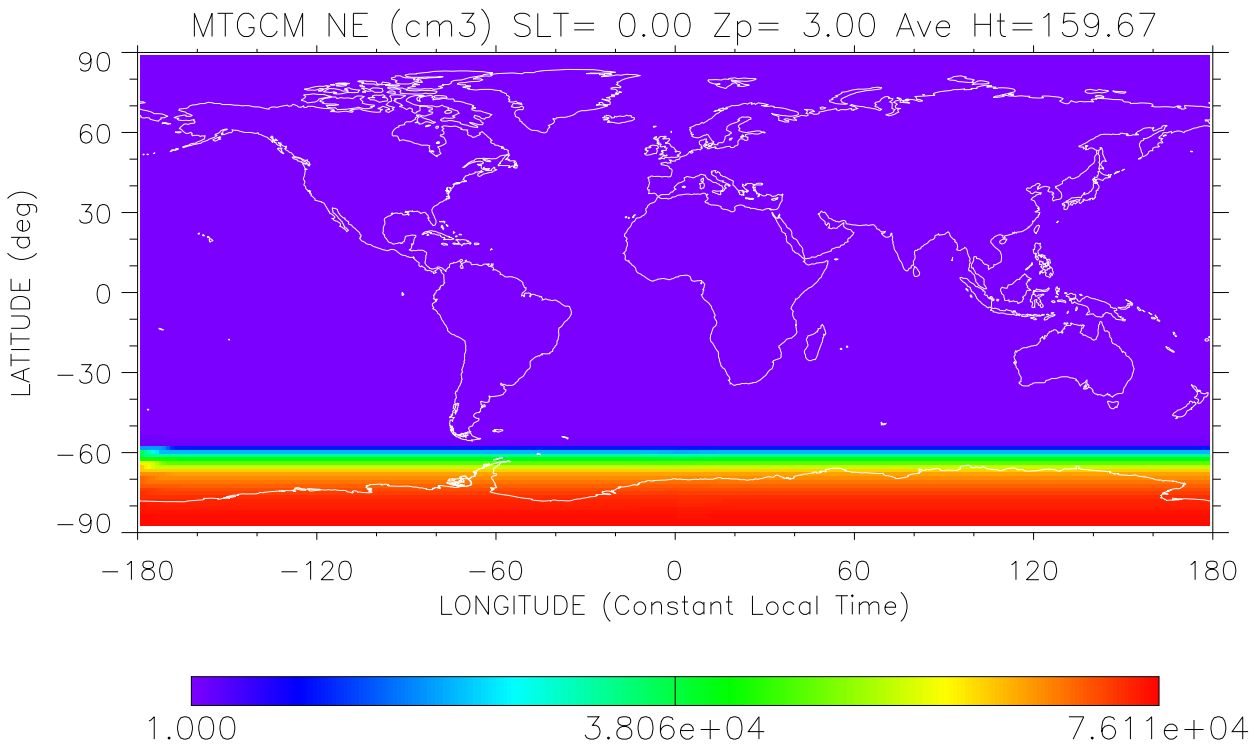

MTGCM AR (cm3) SLT= 0.00 Zp= −2.00 Ave Ht=114.39
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
5.975e+09
8.250e+09
1.052e+10

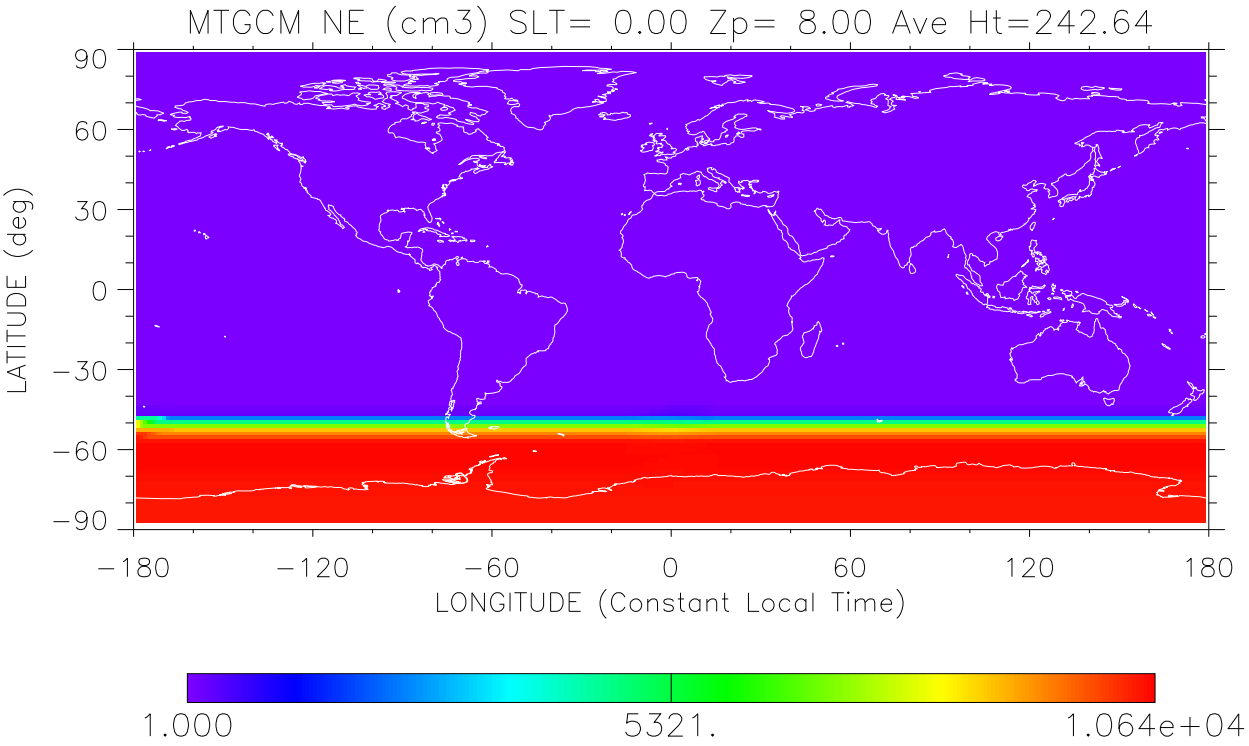

MTGCM AR (cm3) SLT= 0.00 Zp= 3.00 Ave Ht=159.67
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
2.413e+07
5.569e+07
8.725e+07

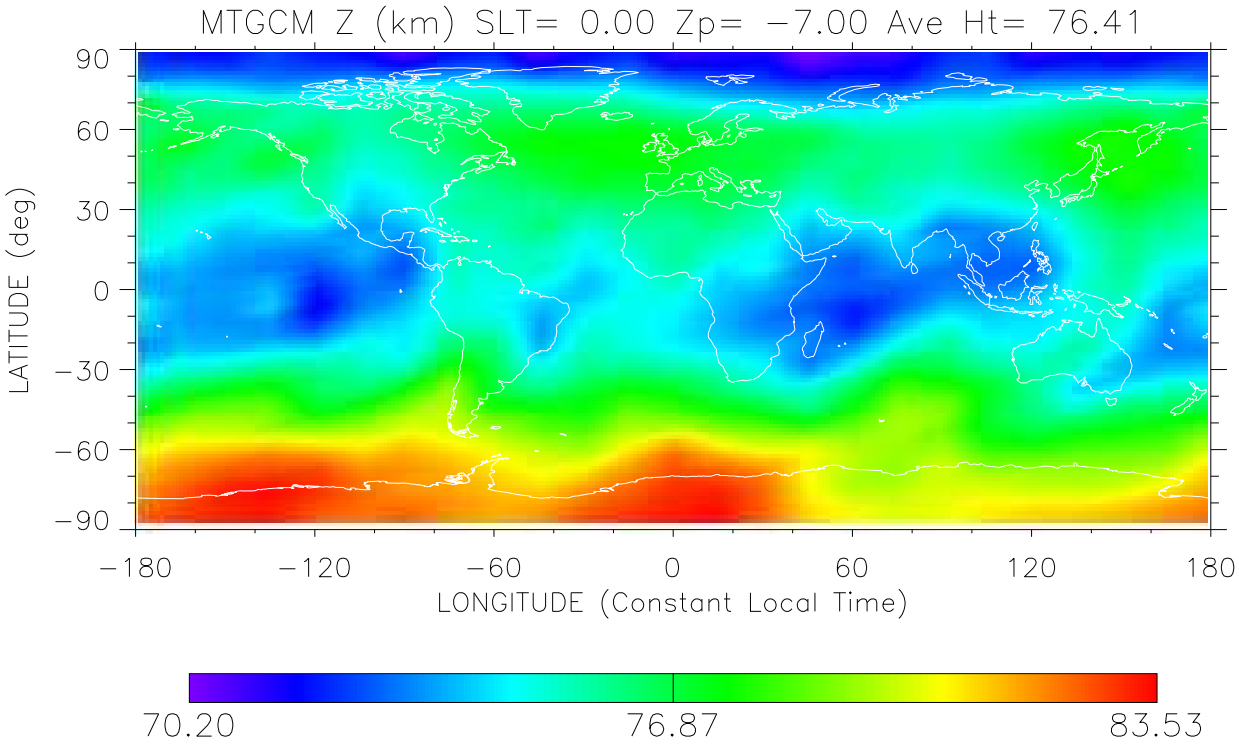

MTGCM AR (cm3) SLT= 0.00 Zp= 8.00 Ave Ht=242.64
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1333.
2.237e+05
4.462e+05

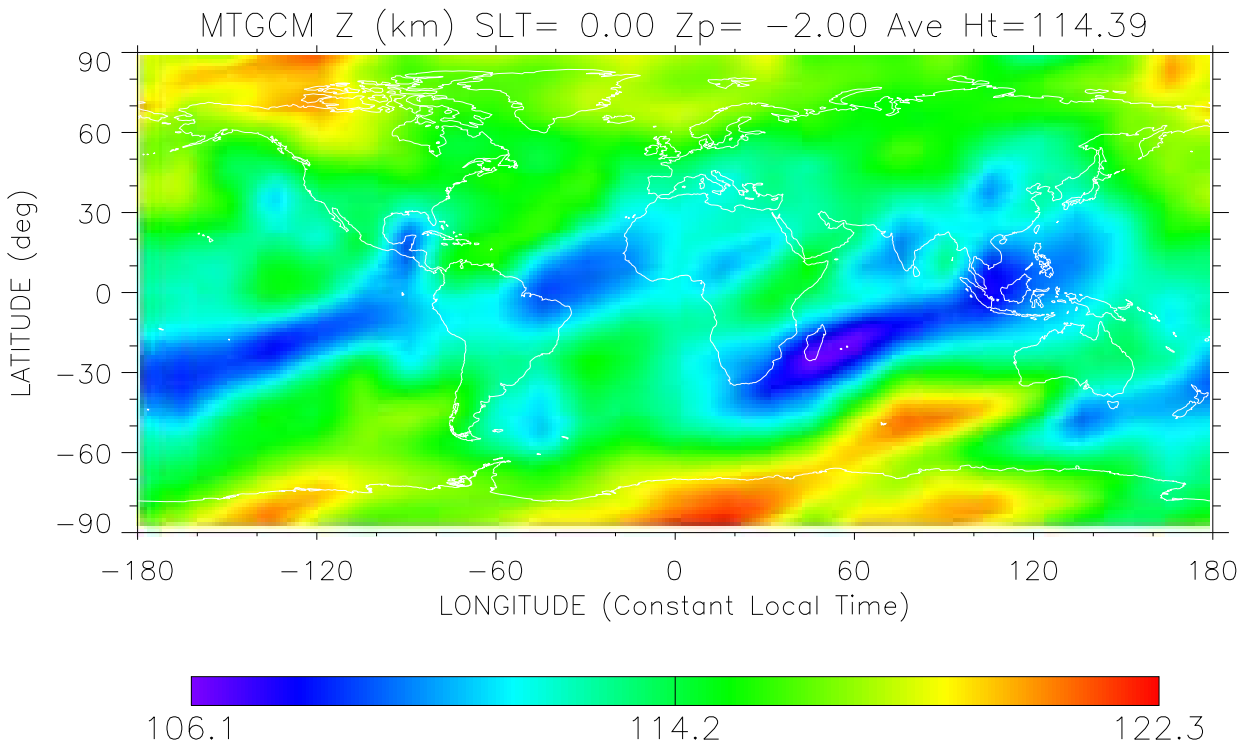

MTGCM NE (cm3) SLT= 0.00 Zp= −7.00 Ave Ht= 76.41
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.000
2742.
5483.

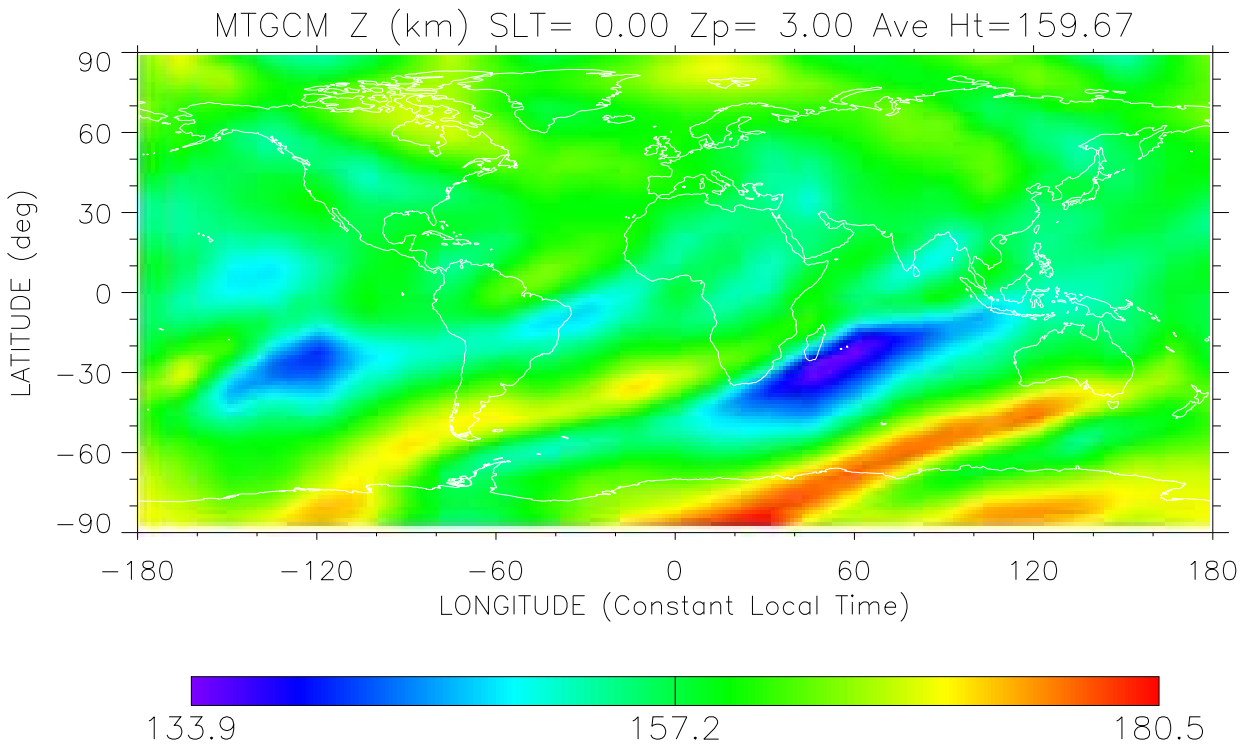

MTGCM NE (cm3) SLT= 0.00 Zp= −2.00 Ave Ht=114.39
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.000
8501.
1.700e+04

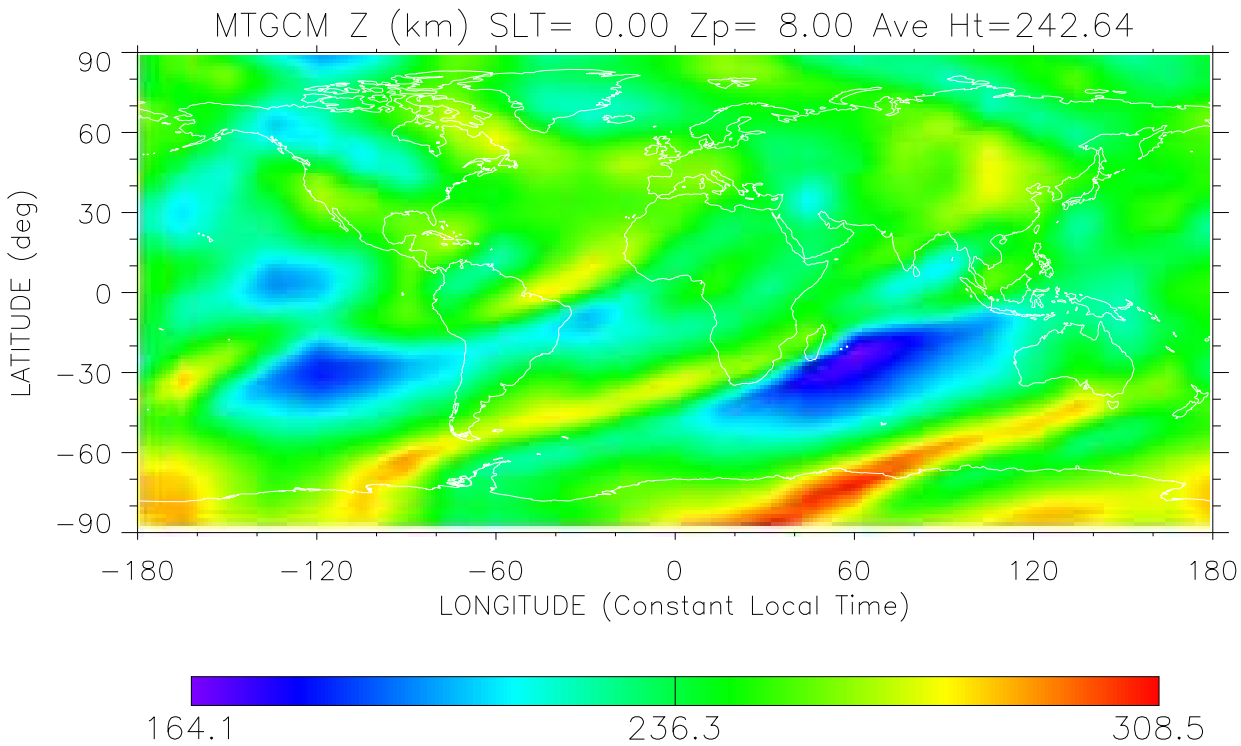

MTGCM NE (cm3) SLT= 0.00 Zp= 3.00 Ave Ht=159.67
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.000
3.806e+04
7.611e+04

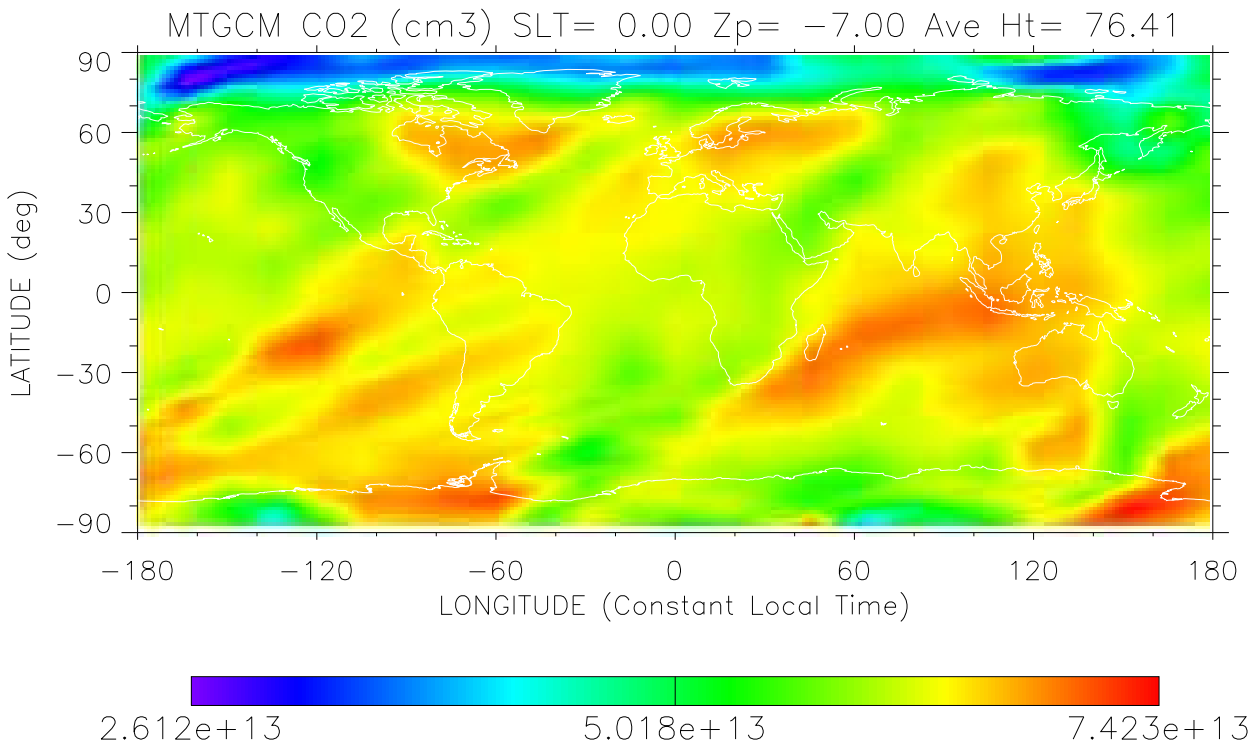

MTGCM NE (cm3) SLT= 0.00 Zp= 8.00 Ave Ht=242.64
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1.000
5321.
1.064e+04

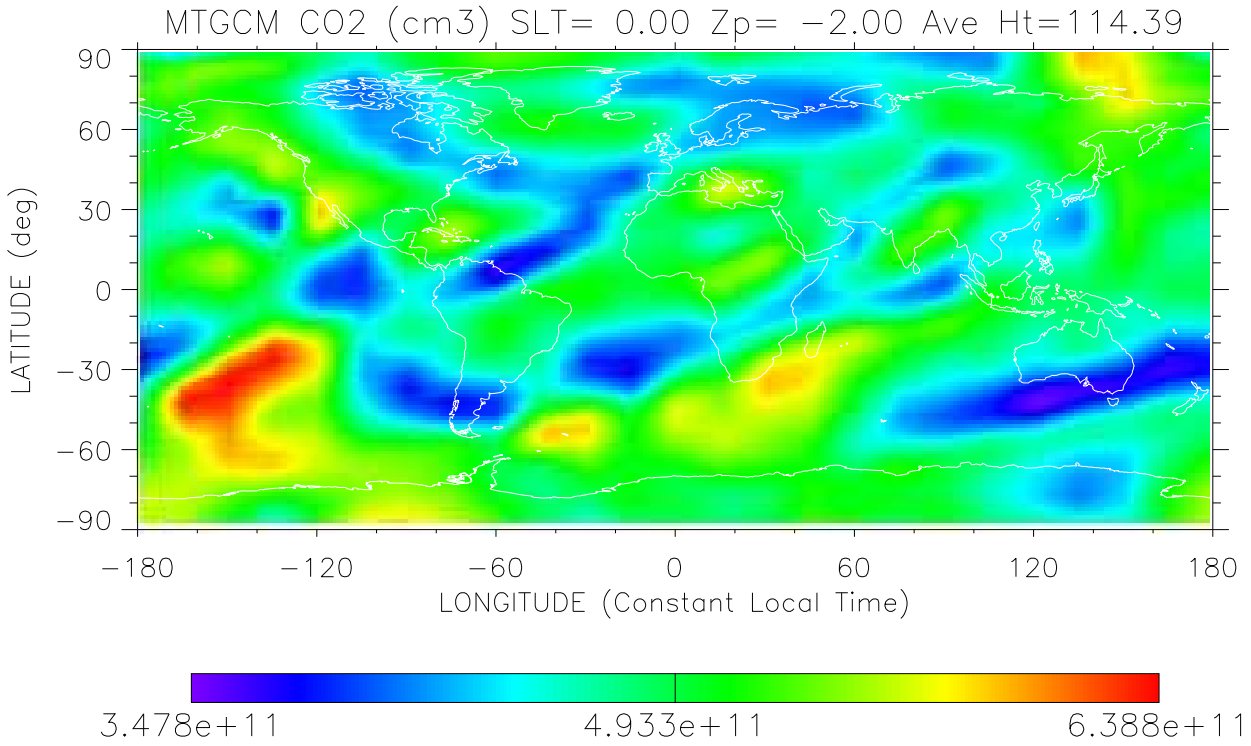

MTGCM Z (km) SLT= 0.00 Zp= −7.00 Ave Ht= 76.41
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
70.20
76.87
83.53

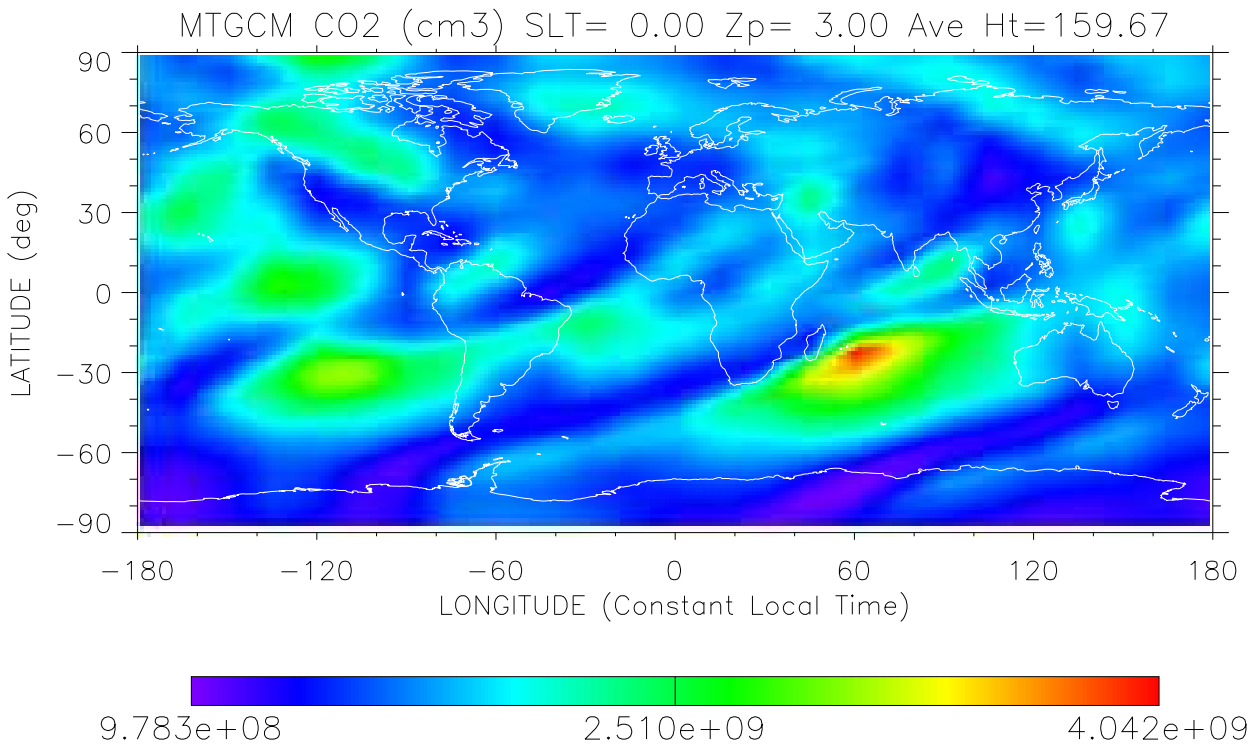

MTGCM Z (km) SLT= 0.00 Zp= −2.00 Ave Ht=114.39
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
106.1
114.2
122.3

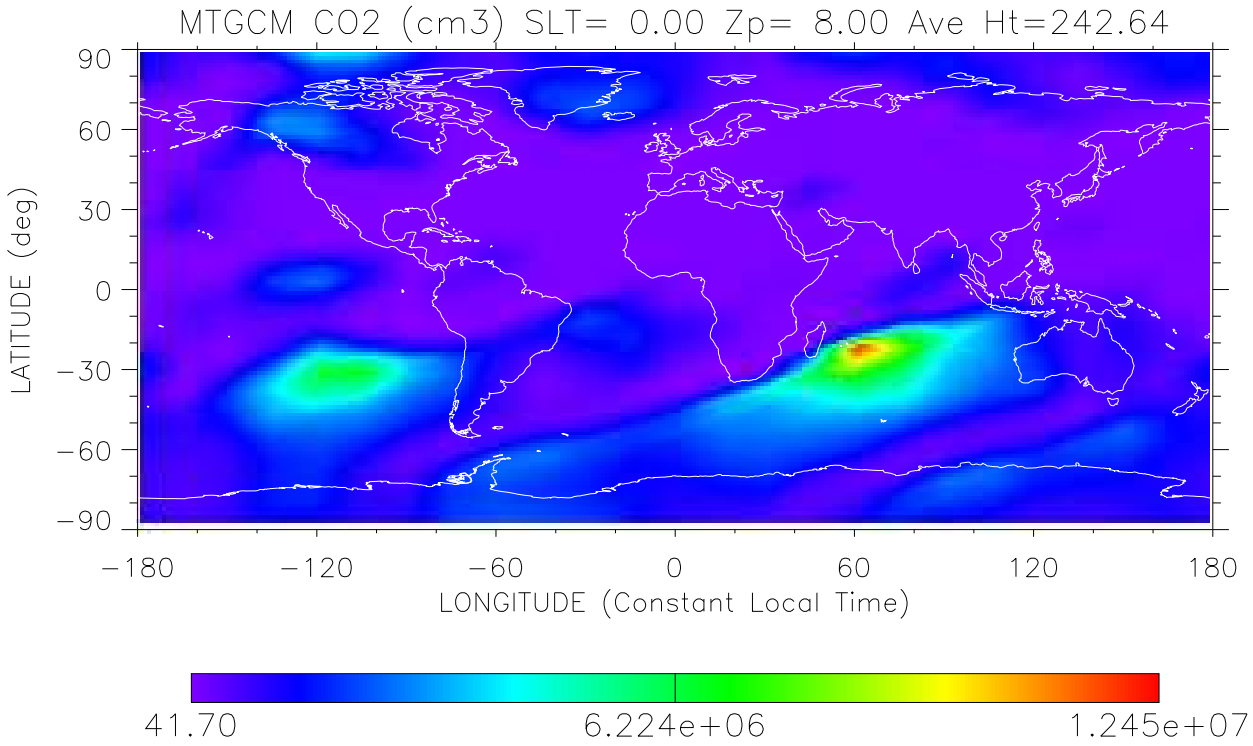

MTGCM Z (km) SLT= 0.00 Zp= 3.00 Ave Ht=159.67
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
133.9
157.2
180.5

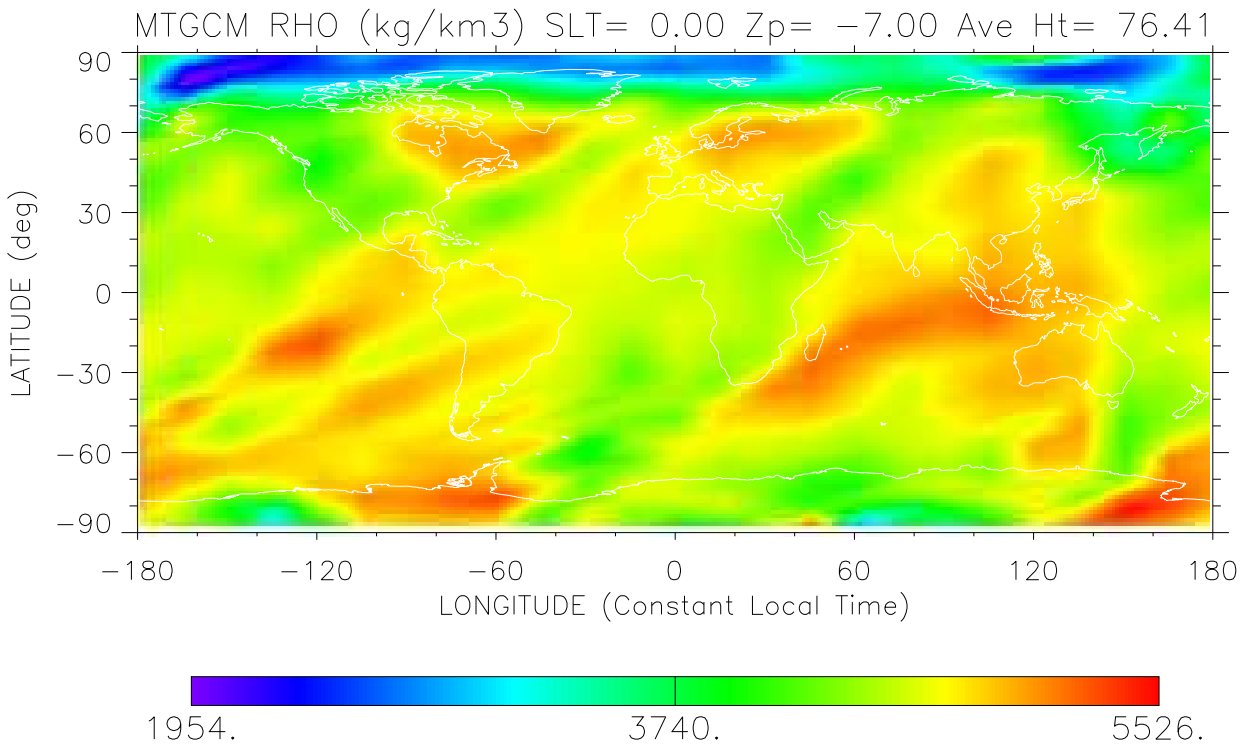

MTGCM Z (km) SLT= 0.00 Zp= 8.00 Ave Ht=242.64
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
164.1
236.3
308.5

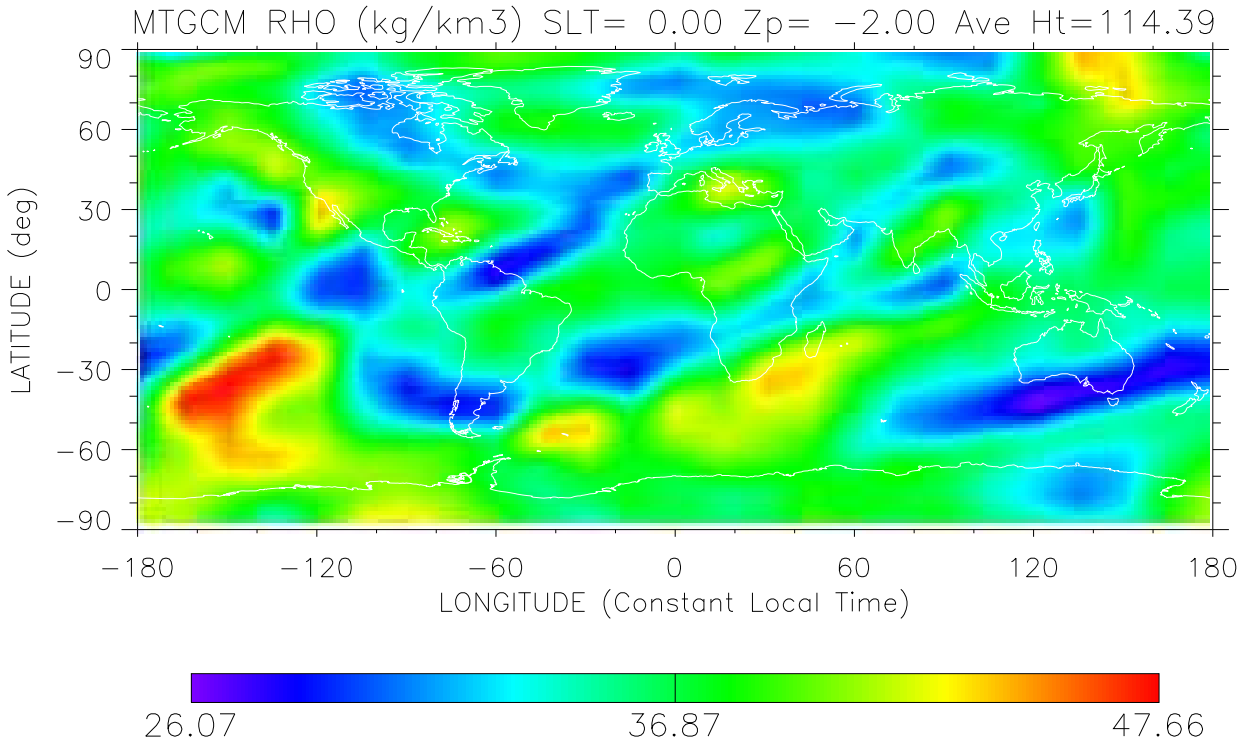

MTGCM CO2 (cm3) SLT= 0.00 Zp= −7.00 Ave Ht= 76.41
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
2.612e+13
5.018e+13
7.423e+13

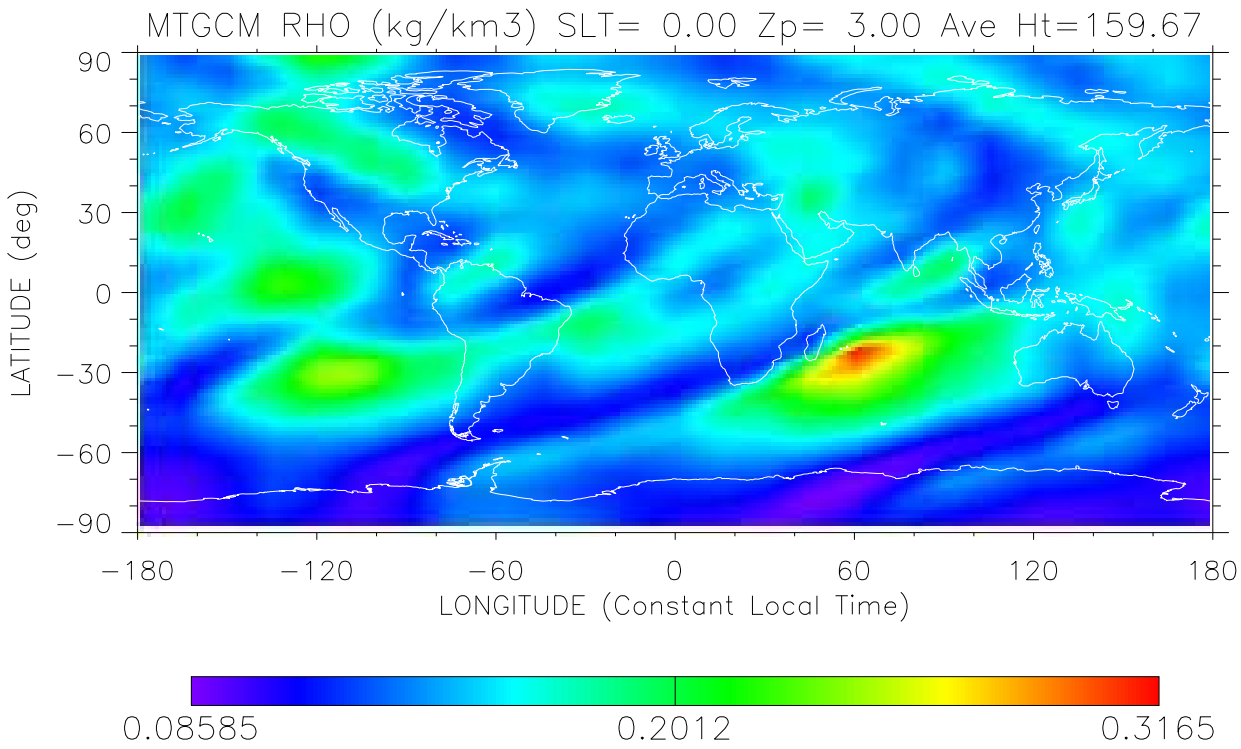

MTGCM CO2 (cm3) SLT= 0.00 Zp= −2.00 Ave Ht=114.39
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
3.478e+11
4.933e+11
6.388e+11

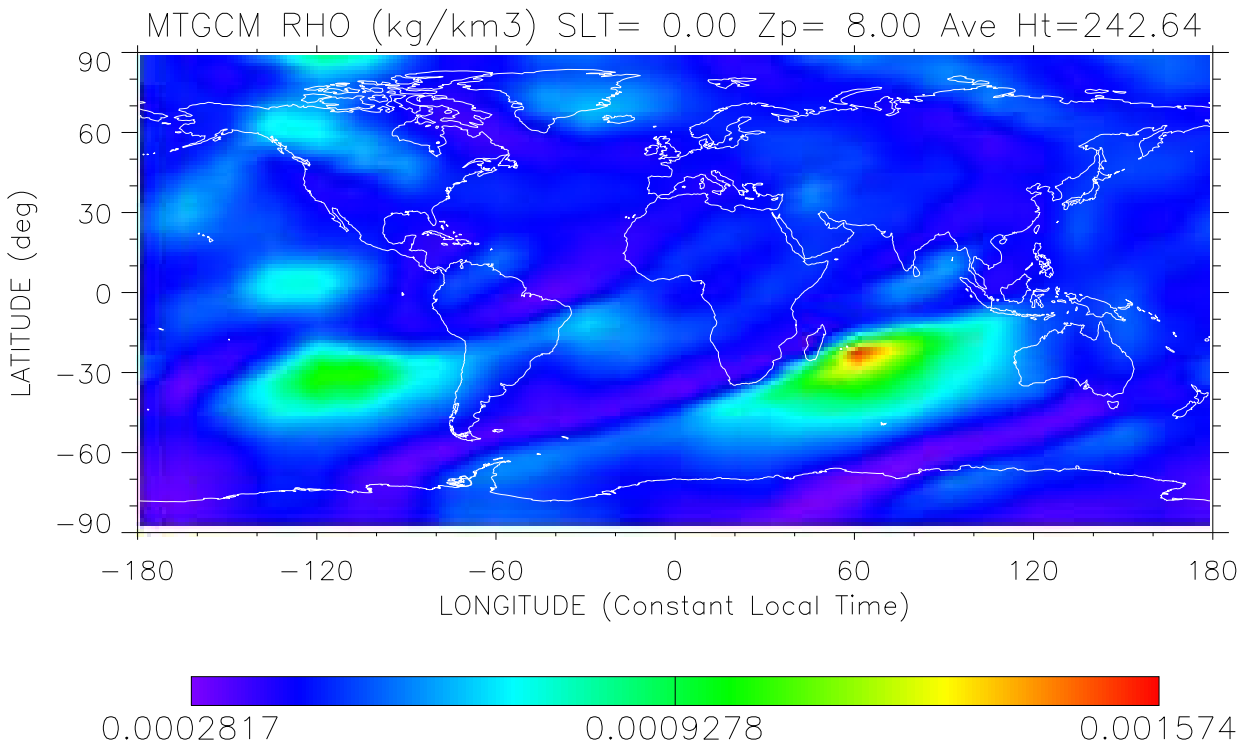

MTGCM CO2 (cm3) SLT= 0.00 Zp= 3.00 Ave Ht=159.67
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
9.783e+08
2.510e+09
4.042e+09

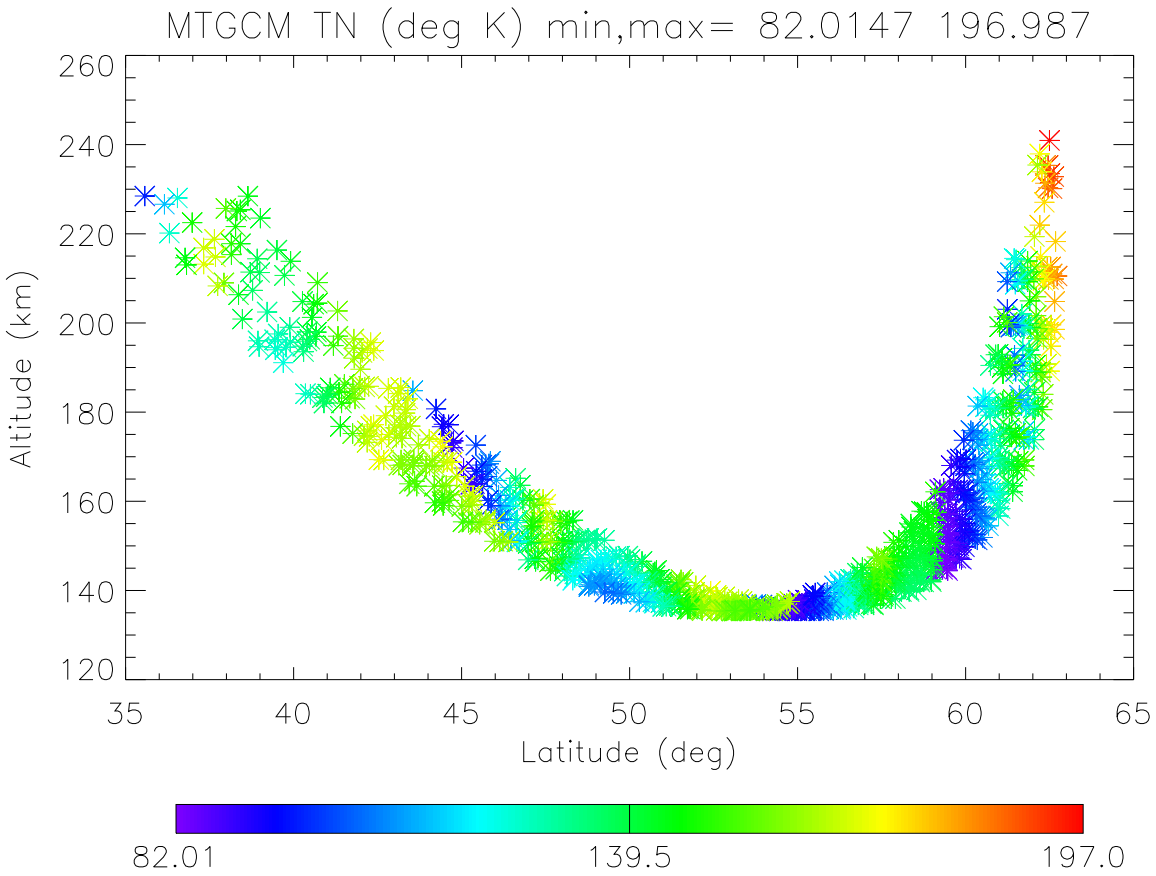

MTGCM CO2 (cm3) SLT= 0.00 Zp= 8.00 Ave Ht=242.64
LATITUDE (deg)
90
60
30
0
−30
−60
−90
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
41.70
6.224e+06
1.245e+07

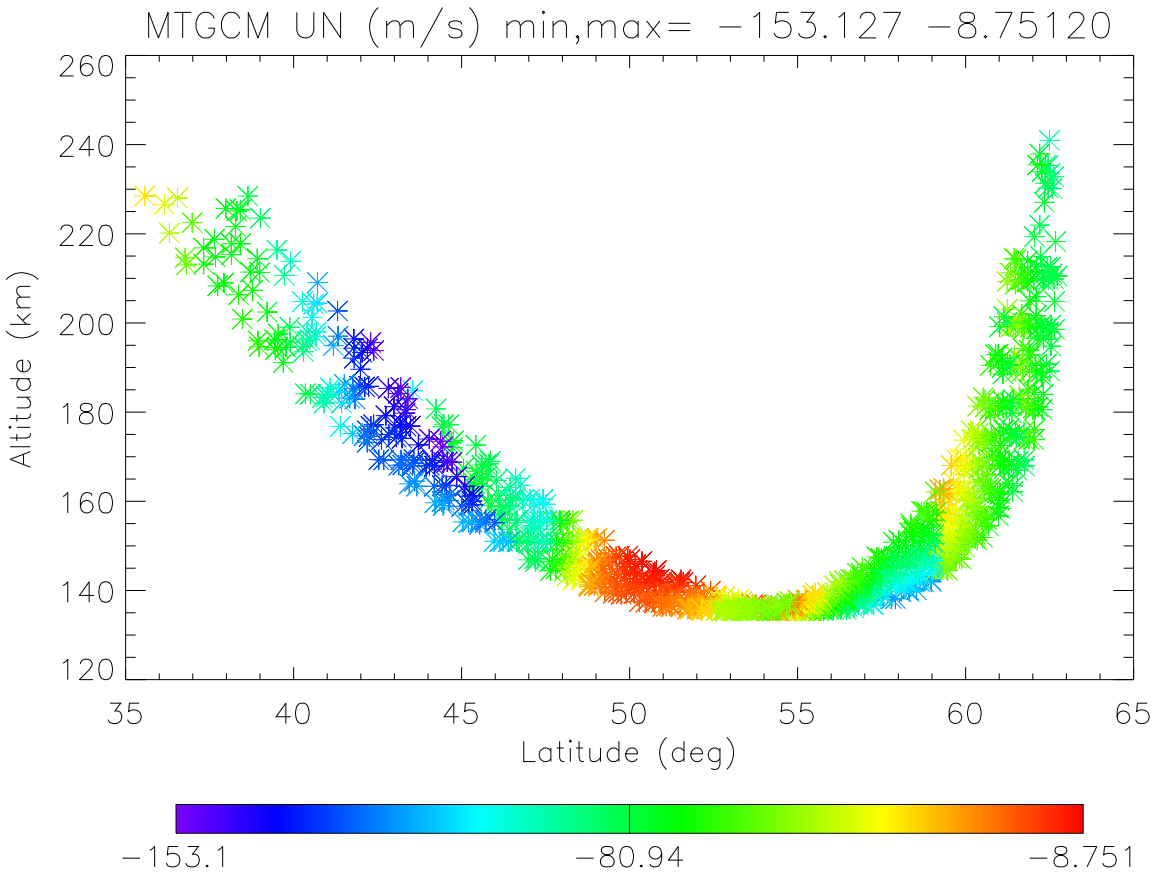

MTGCM RHO (kg/km3) SLT= 0.00 Zp= −7.00 Ave Ht= 76.41
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
1954.
3740.
5526.

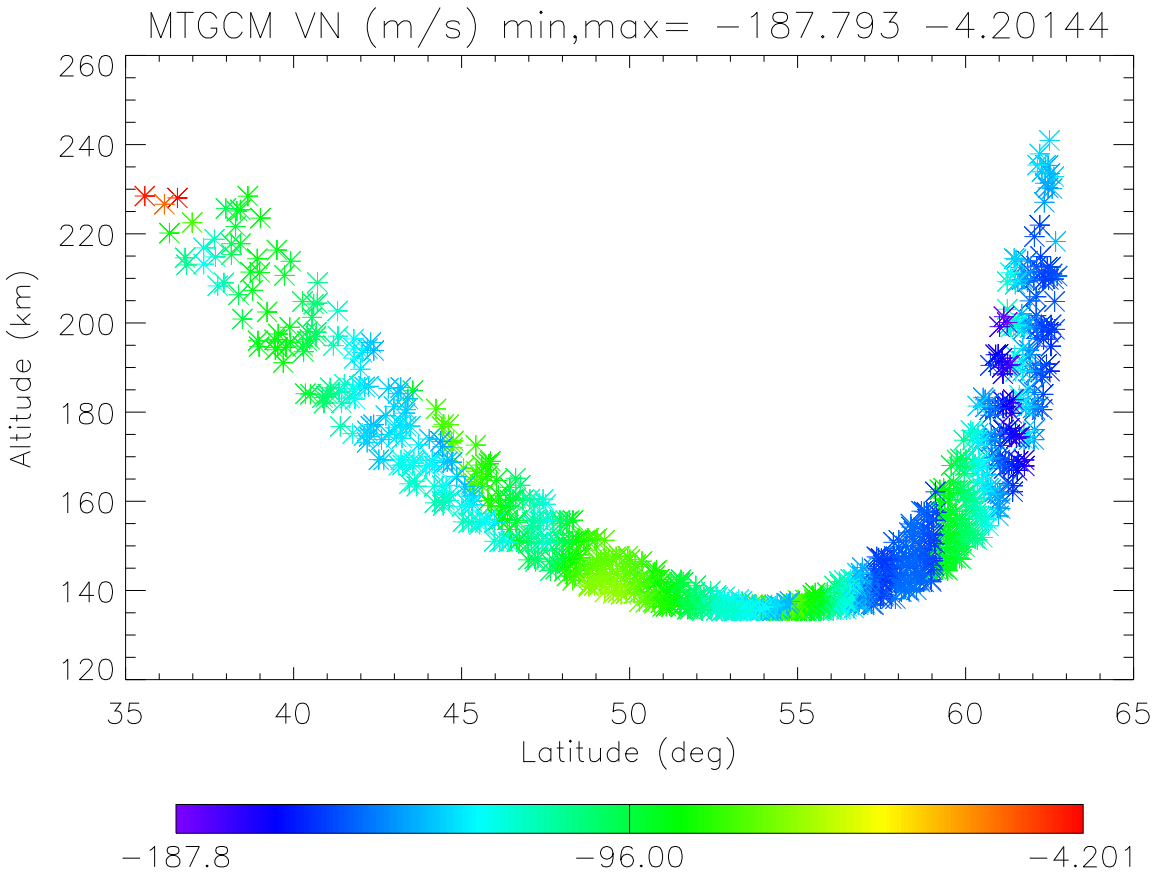

MTGCM RHO (kg/km3) SLT= 0.00 Zp= −2.00 Ave Ht=114.39
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
26.07
36.87
47.66

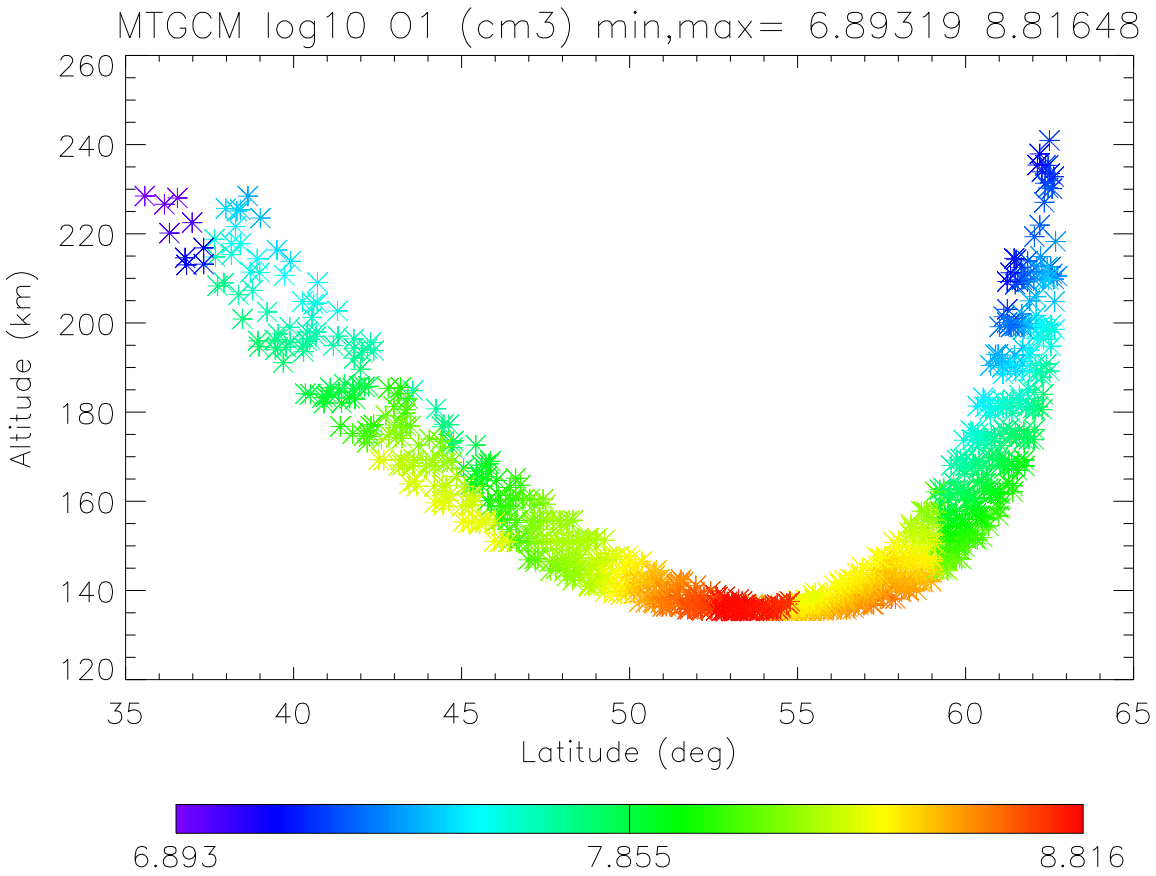

MTGCM RHO (kg/km3) SLT= 0.00 Zp= 3.00 Ave Ht=159.67
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
0.08585
0.2012
0.3165

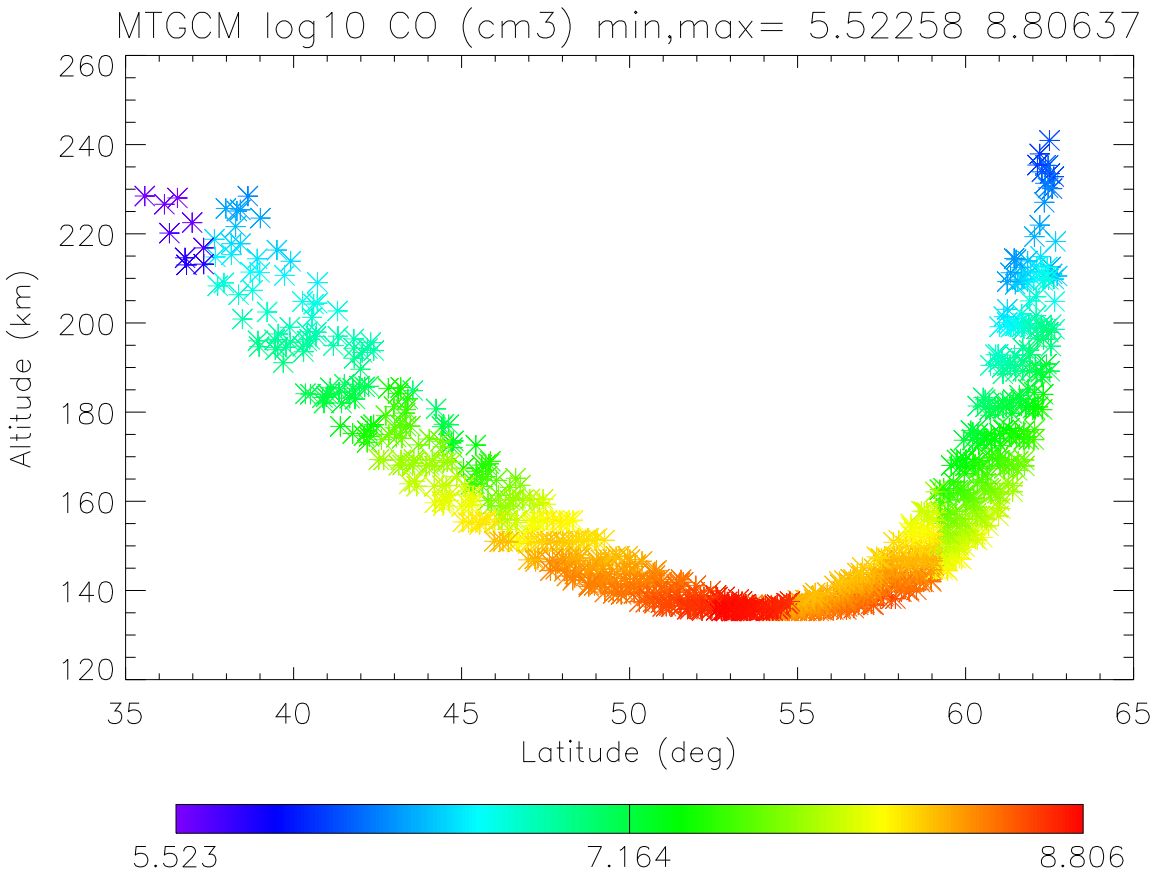

MTGCM RHO (kg/km3) SLT= 0.00 Zp= 8.00 Ave Ht=242.64
90
60
30
0
−30
−60
−90
LATITUDE (deg)
−180
−120
−60
0
60
120
180
LONGITUDE (Constant Local Time)
0.0002817
0.0009278
0.001574

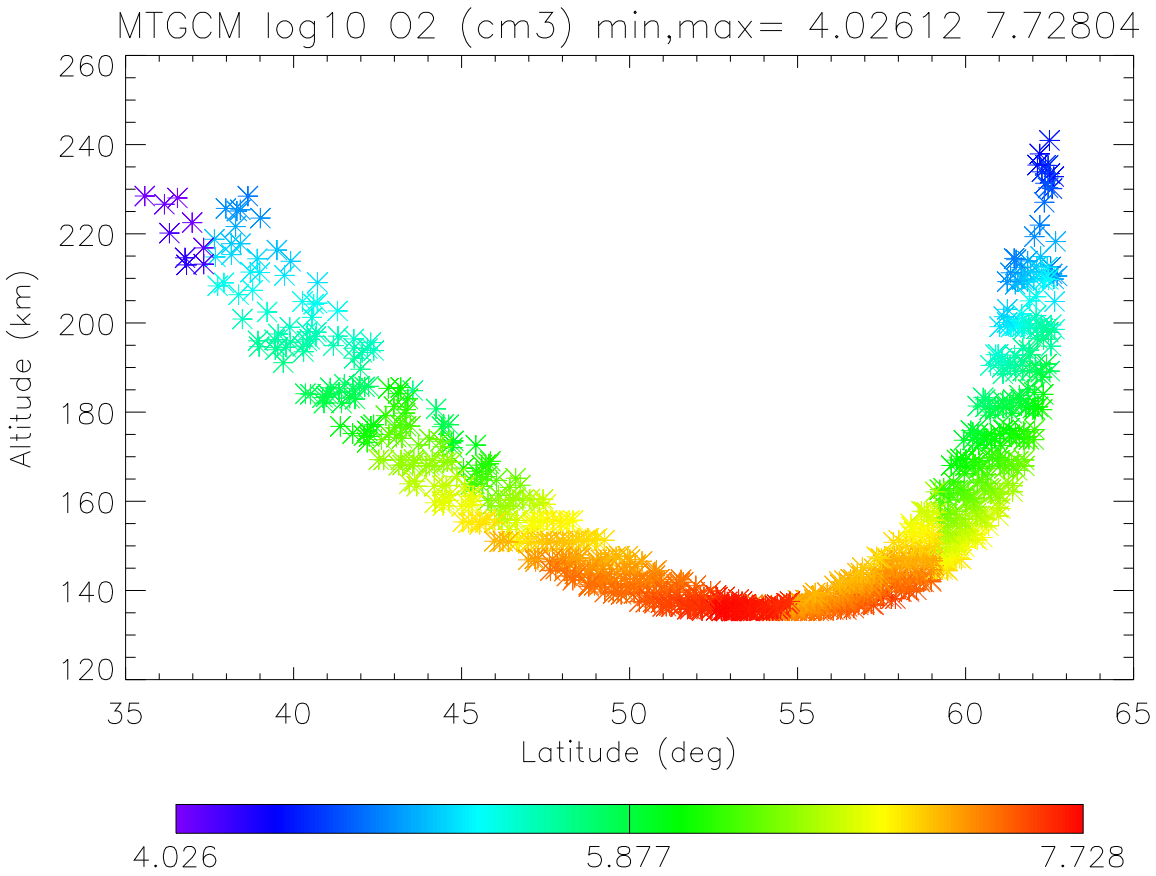

MTGCM TN (deg K) min,max= 82.0147 196.987
260
240
220
200
180
160
140
120
Altitude (km)
35
40
45
50
55
60
65
Latitude (deg)
82.01
139.5
197.0

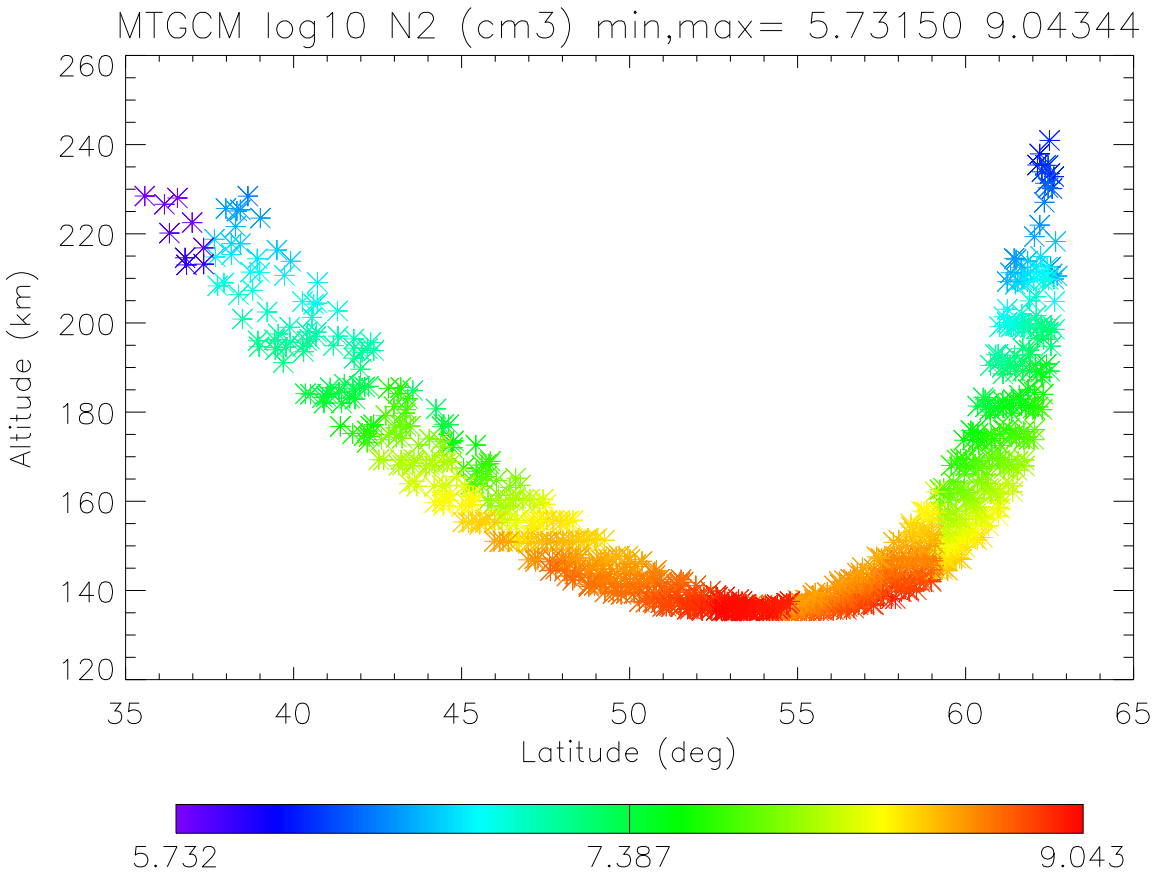

MTGCM UN (m/s) min,max= −153.127 −8.75120
260
240
220
200
180
160
140
120
Altitude (km)
35
40
45
50
55
60
65
Latitude (deg)
−153.1
−80.94
−8.751

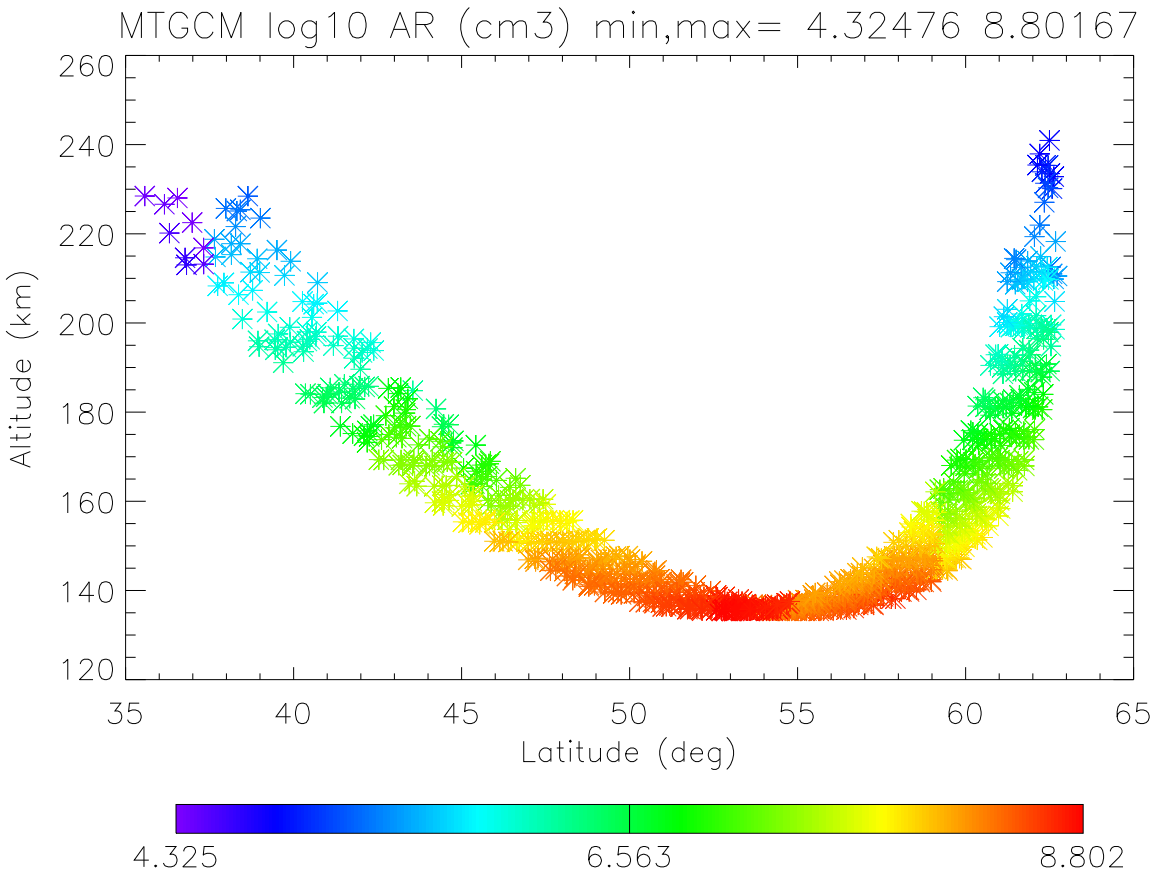

MTGCM VN (m/s) min,max= −187.793 −4.20144
260
240
220
200
180
160
140
120
Altitude (km)
35
40
45
50
55
60
65
Latitude (deg)
−187.8
−96.00
−4.201

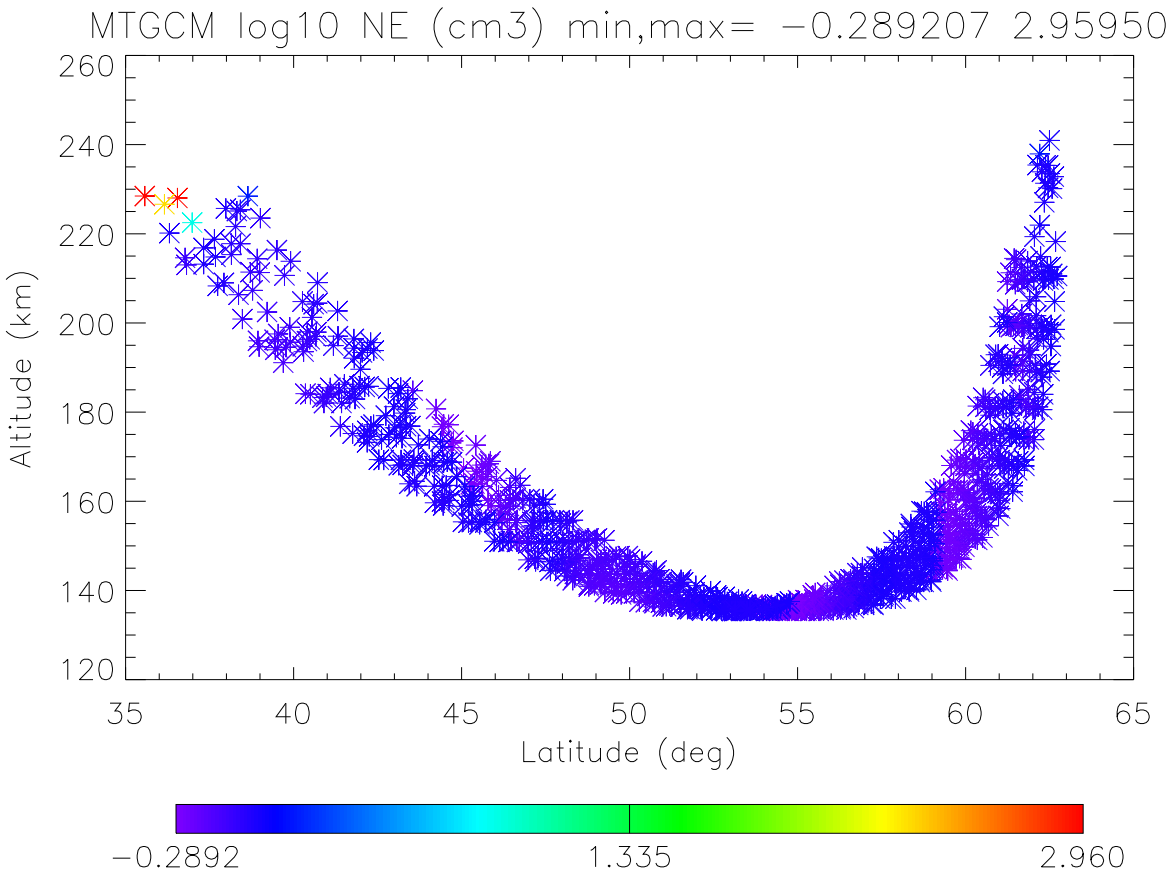

MTGCM log10 O1 (cm3) min,max= 6.89319 8.81648
260
240
220
200
180
160
140
120
Altitude (km)
35
40
45
50
55
60
65
Latitude (deg)
6.893
7.855
8.816

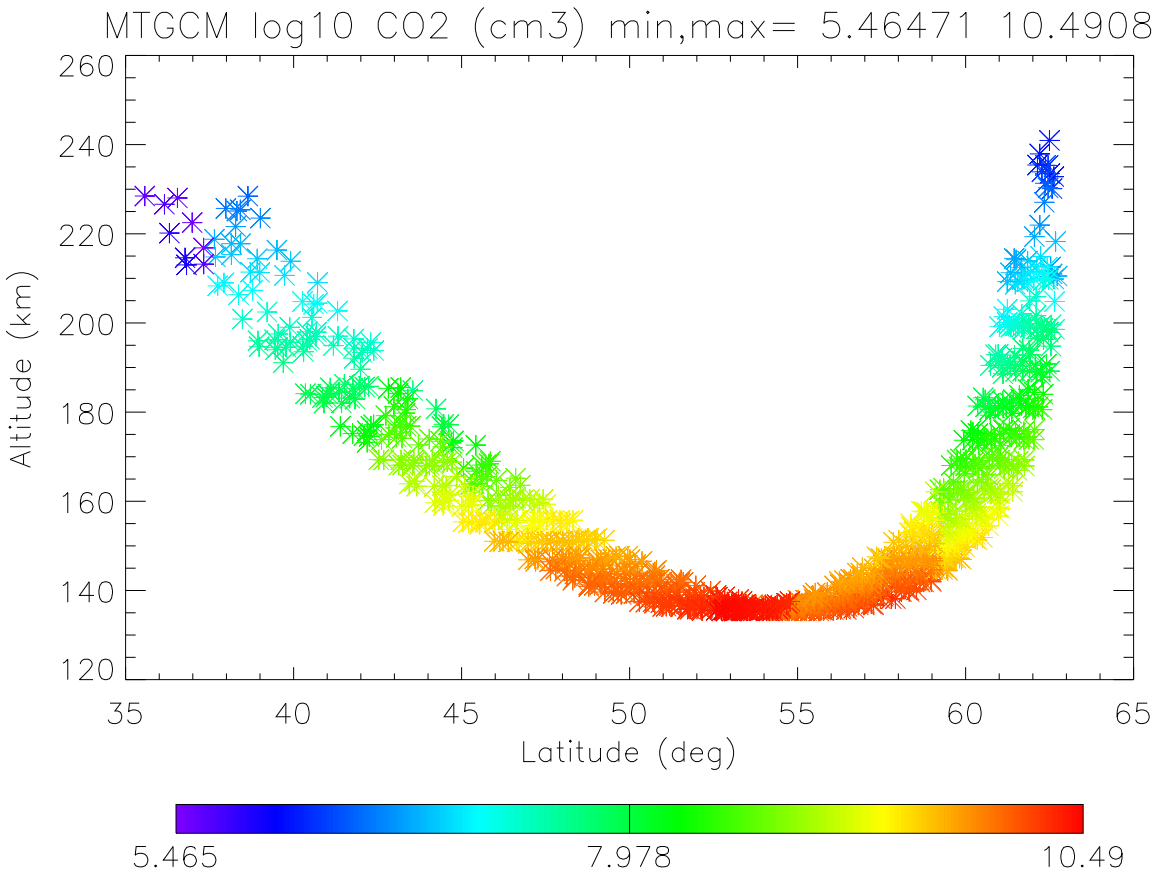

MTGCM log10 CO (cm3) min,max= 5.52258 8.80637
260
240
220
200
180
160
140
120
Altitude (km)
35
40
45
50
55
60
65
Latitude (deg)
5.523
7.164
8.806

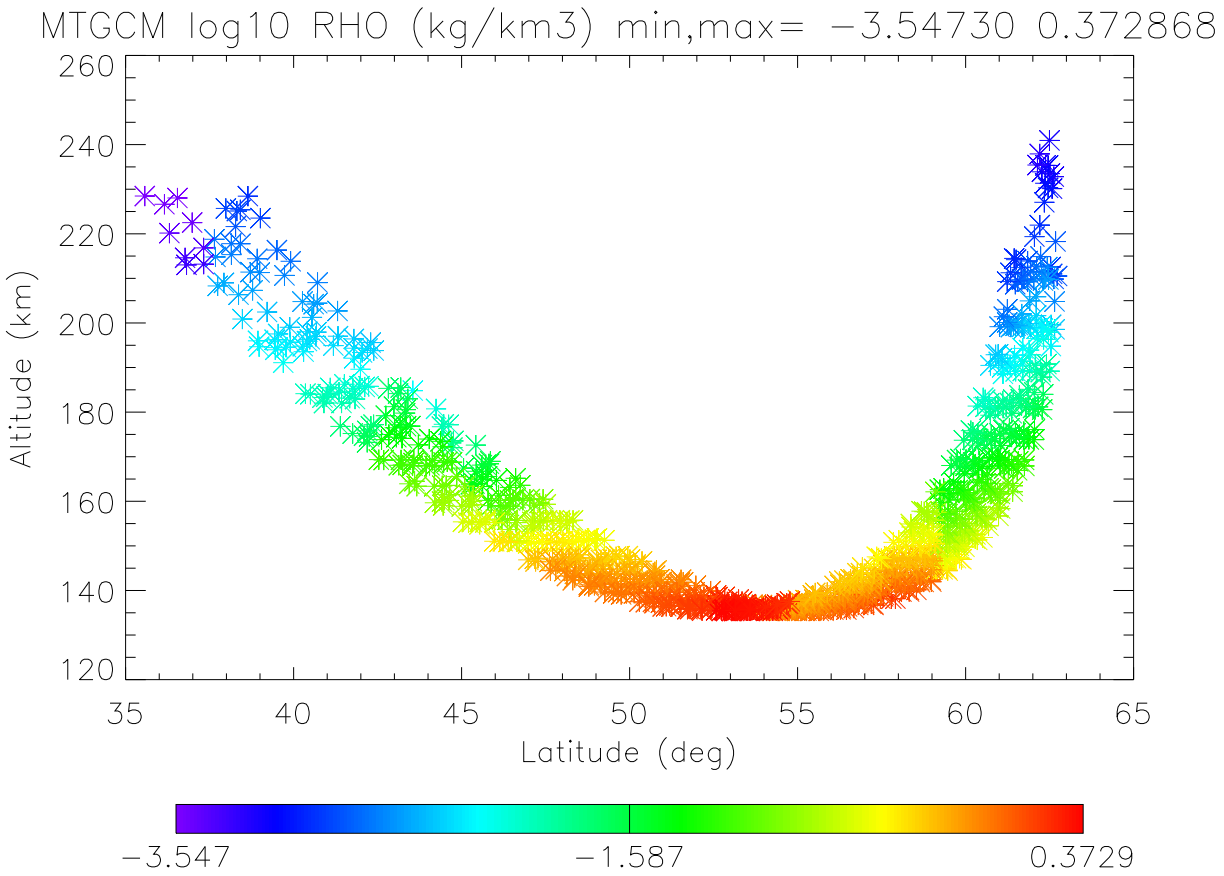

MTGCM log10 O2 (cm3) min,max= 4.02612 7.72804
260
240
220
200
180
160
140
120
Altitude (km)
35
40
45
50
55
60
65
Latitude (deg)
4.026
5.877
7.728


MTGCM log10 N2 (cm3) min,max= 5.73150 9.04344
260
240
220
200
180
160
140
120
Altitude (km)
35
40
45
50
55
60
65
Latitude (deg)
5.732
7.387
9.043


MTGCM log10 AR (cm3) min,max= 4.32476 8.80167
260
240
220
200
180
160
140
120
Altitude (km)
35
40
45
50
55
60
65
Latitude (deg)
4.325
6.563
8.802


MTGCM log10 NE (cm3) min,max= −0.289207 2.95950
260
240
220
200
180
160
140
120
Altitude (km)
35
40
45
50
55
60
65
Latitude (deg)
−0.2892
1.335
2.960


MTGCM log10 CO2 (cm3) min,max= 5.46471 10.4908
Altitude (km)
260
240
220
200
180
160
140
120
35
40
45
50
55
60
65
Latitude (deg)
5.465
7.978
10.49


MTGCM log10 RHO (kg/km3) min,max= −3.54730 0.372868
Altitude (km)
260
240
220
200
180
160
140
120
35
40
45
50
55
60
65
Latitude (deg)
−3.547
−1.587
0.3729