2. MIPAS Daily Report for level 2 products summary report

(See **mipas_daily_report_level2_ML2PP_7_03_W_20090706.html** for a detailed report).

2.1. General Info

- **2.1.1 Report summary**
- **2.1.2 Summary per product**

2.2 Processing performance indicators

- **2.2.1 Successful retrievals**
- **2.2.2 Pressure overview**
- **2.2.3 Temperature overview**
- **2.2.4 Species overview**
- **2.2.5 History of daily averages**

2.1 General Info

This report contains a daily analysis on parameters extracted from MIPAS level 2 data (The MIP_NL__2P product).

2.1.1 Report summary

The table below shows general characteristics of the data that are included into this report.

Item	Value
Report version	v1.11 26-05-2015
Time of report generation	08MAY2016 07:59:37
Data source version	ML2PP/7.03-W
Processing scope for products	06JUL2009 00:00:00 to 07JUL2009 00:00:00
Start time of first product within scope	05JUL2009 23:11:34
Stop time of last product within scope	07JUL2009 00:19:57
Total number of level 2 products	15
Number of level 2 products with errors	0

2.1.2 Summary per product

The following table shows a summary for each product used in this report.

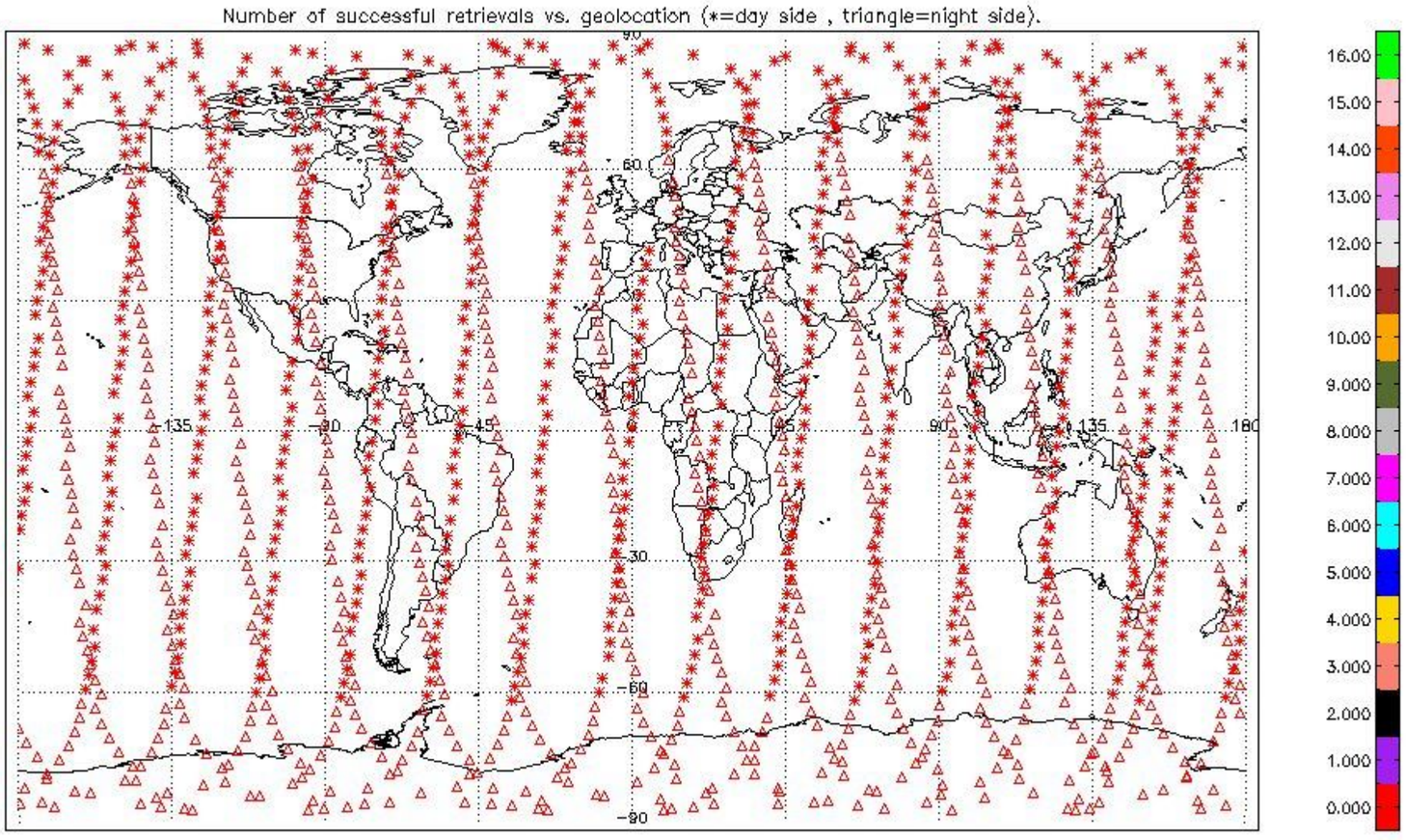
#	Product name	Start time	Stop time	Prod err	Number of scans (tot/proc)	Quality summary warnings
0	MIP_NL__2PWDSI20090705_231134_000060652080_00288_38418_1000.N1	05JUL2009 23:11:34	06JUL2009 00:52:39	0	104/104	
1	MIP_NL__2PWDSI20090706_005245_000060092080_00289_38419_1000.N1	06JUL2009 00:52:45	06JUL2009 02:32:53	0	103/103	
2	MIP_NL__2PWDSI20090706_023300_000060382080_00290_38420_1000.N1	06JUL2009 02:33:00	06JUL2009 04:13:37	0	103/103	
3	MIP_NL__2PWDSI20090706_041344_000060092080_00291_38421_1000.N1	06JUL2009 04:13:44	06JUL2009 05:53:52	0	103/103	
4	MIP_NL__2PWDSI20090706_055358_000060652080_00292_38422_1000.N1	06JUL2009 05:53:58	06JUL2009 07:35:03	0	104/104	
5	MIP_NL__2PWDSI20090706_073510_000060382080_00293_38423_1000.N1	06JUL2009 07:35:10	06JUL2009 09:15:47	0	103/103	
6	MIP_NL__2PWDSI20090706_091554_000060112080_00294_38424_1000.N1	06JUL2009 09:15:54	06JUL2009 10:56:04	0	88/88	
7	MIP_NL__2PWDSI20090706_105611_000060082080_00295_38425_1000.N1	06JUL2009 10:56:11	06JUL2009 12:36:19	0	103/103	
8	MIP_NL__2PWDSI20090706_123625_000060652080_00296_38426_1000.N1	06JUL2009 12:36:25	06JUL2009 14:17:30	0	104/104	
9	MIP_NL__2PWDSI20090706_141736_000059812080_00297_38427_1000.N1	06JUL2009 14:17:36	06JUL2009 15:57:18	0	102/102	
10	MIP_NL__2PWDSI20090706_155820_000060082080_00298_38428_1000.N1	06JUL2009 15:58:20	06JUL2009 17:38:29	0	103/103	
11	MIP_NL__2PWDSI20090706_173835_000060082080_00299_38429_1000.N1	06JUL2009 17:38:35	06JUL2009 19:18:43	0	103/103	
12	MIP_NL__2PWDSI20090706_191850_000060382080_00300_38430_1000.N1	06JUL2009 19:18:50	06JUL2009 20:59:27	0	103/103	
13	MIP_NL__2PWDSI20090706_205934_000060082080_00301_38431_1000.N1	06JUL2009 20:59:34	06JUL2009 22:39:42	0	103/103	
14	MIP_NL__2PWDSI20090706_223948_000060082080_00302_38432_1000.N1	06JUL2009 22:39:48	07JUL2009 00:19:57	0	103/103	

2.2 Processing performance indicators

2.2.1 Successful retrievals

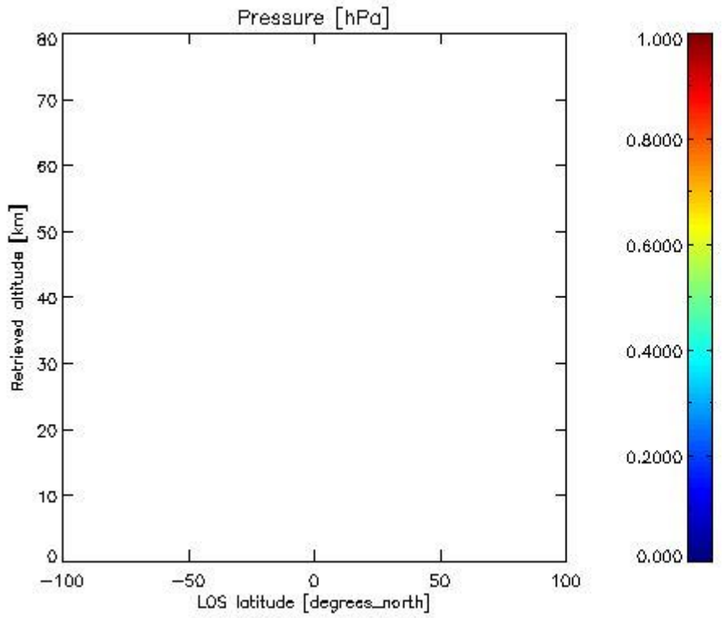
This section includes a table with statistics on the number of retrievals, as well as a worldmap plot that shows successful retrievals.

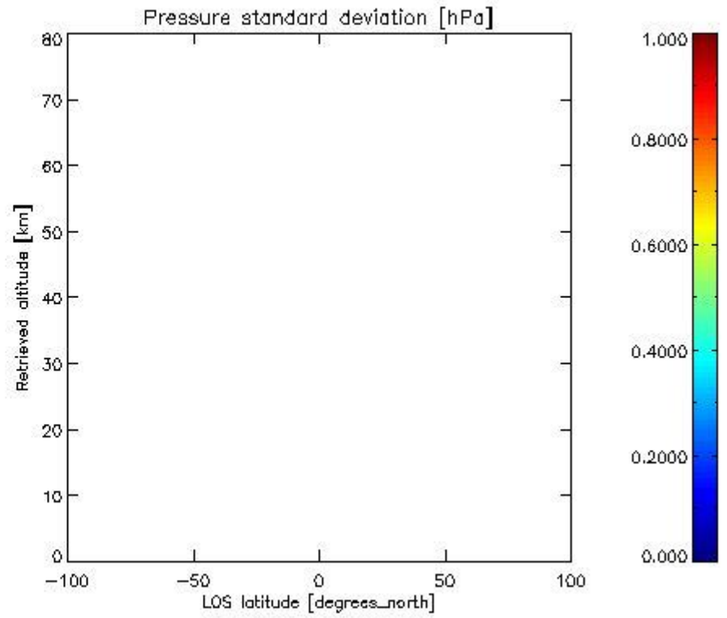
RETRIEVAL MDS	# scans processed	# Successful retrievals	%
PT	1532	0	0.0000
H2O	1532	0	0.0000
O3	1532	0	0.0000
HNO3	1532	0	0.0000
CH4	1532	0	0.0000
N2O	1532	0	0.0000
NO2	1532	0	0.0000
F11	1532	0	0.0000
CLNO	1532	0	0.0000
N2O5	1532	0	0.0000
F12	1532	0	0.0000
COF2	1532	0	0.0000
CCL4	1532	0	0.0000
HCN	1532	0	0.0000
F14	1532	0	0.0000
F22	1532	0	0.0000



2.2.2 Pressure overview

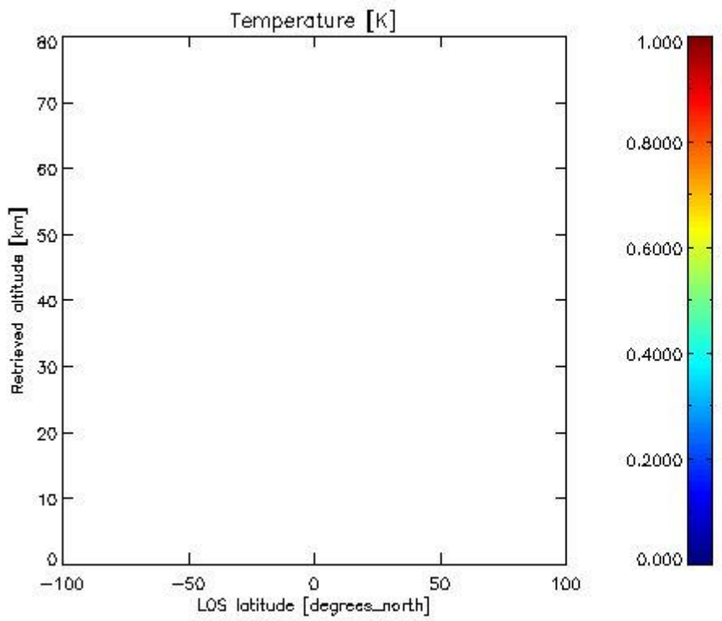
This section shows values (left) and error (right) for pressure after binning individual sweep values over retrieved altitude and tangent latitude.

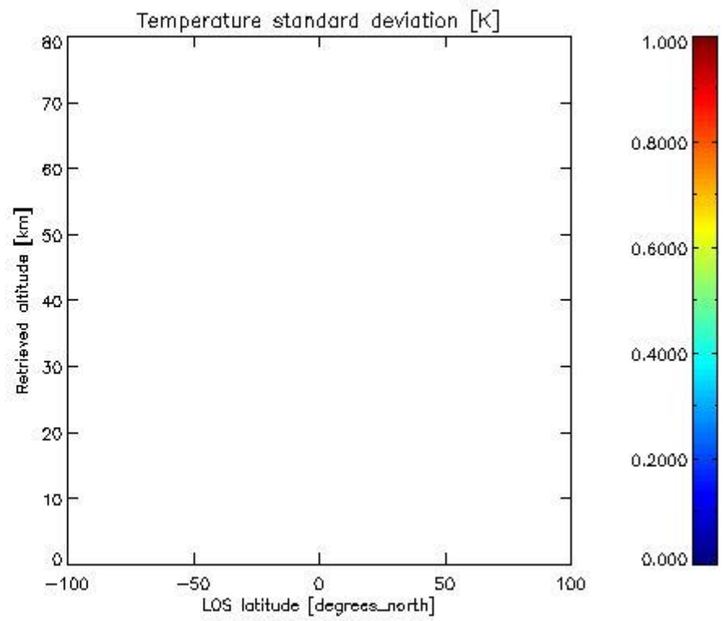




2.2.3 Temperature overview

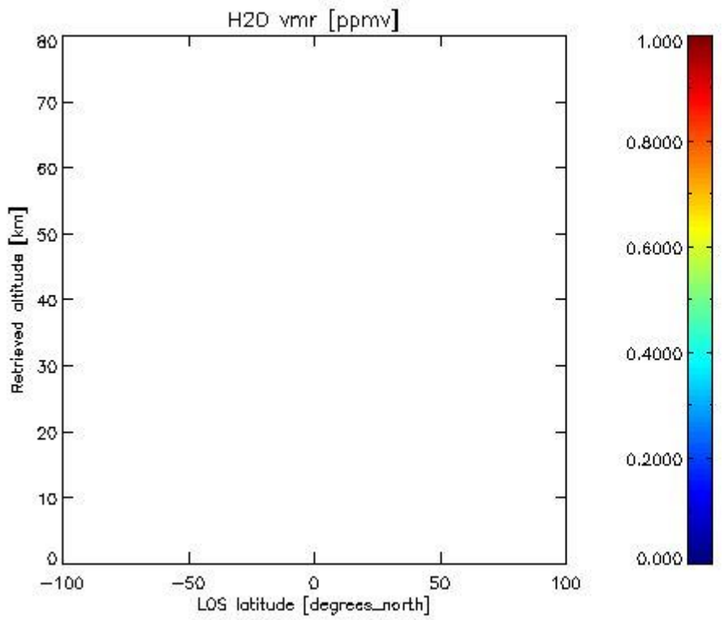
This section shows values (left) and error (right) for temperature after binning individual sweep values over retrieved altitude and tangent latitude.

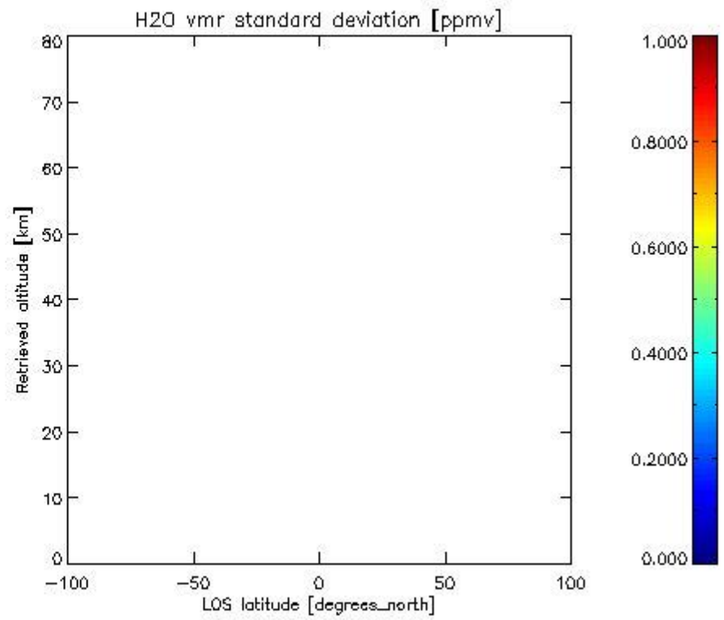




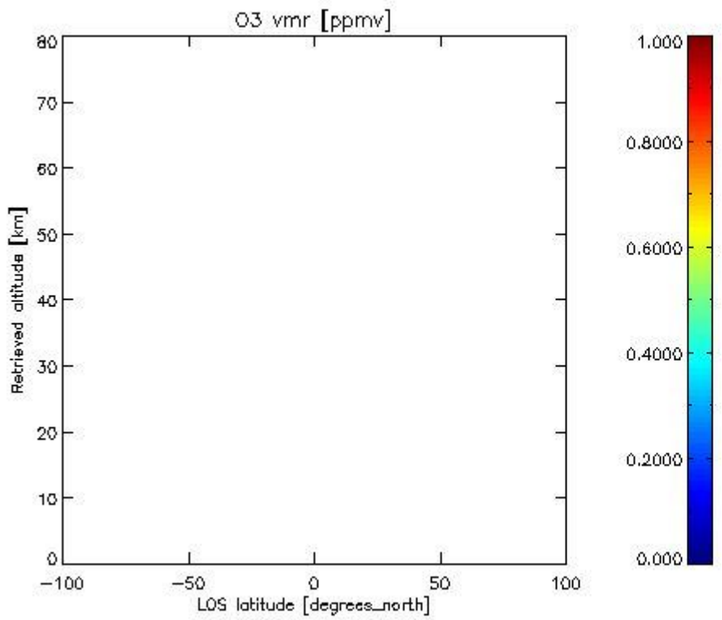
2.2.4 Species overview

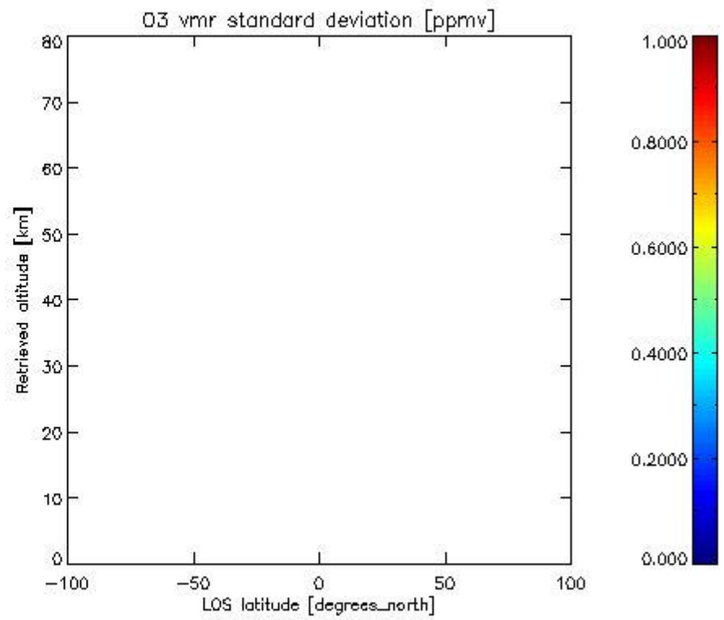
2.2.4.1 H2O overview This section shows values (left) and error (right) for H2O after binning individual sweep values over retrieved altitude and tangent latitude.



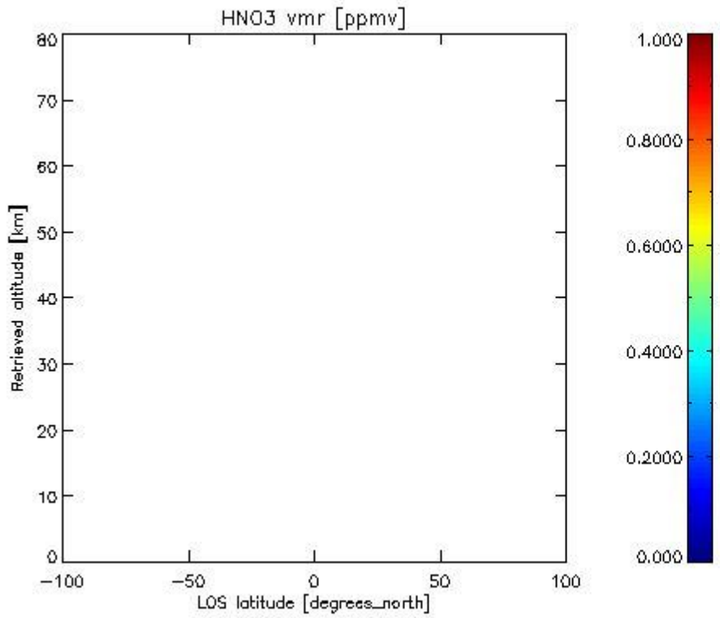


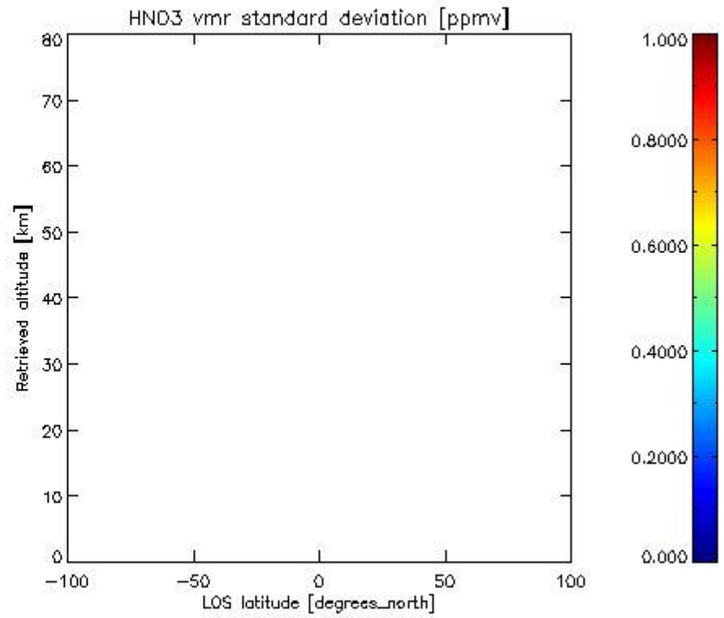
2.2.4.2 O3 overview **This section shows values (left) and error (right) for O3 after binning individual sweep values over retrieved altitude and tangent latitude.**



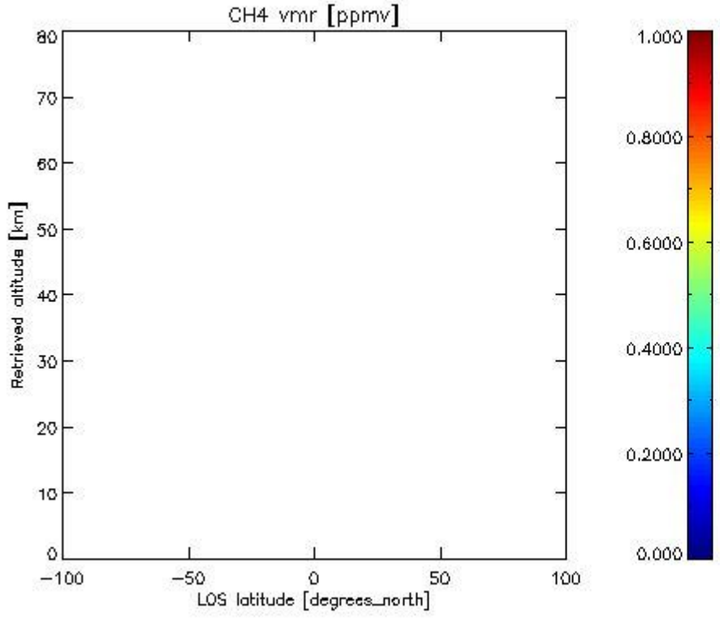


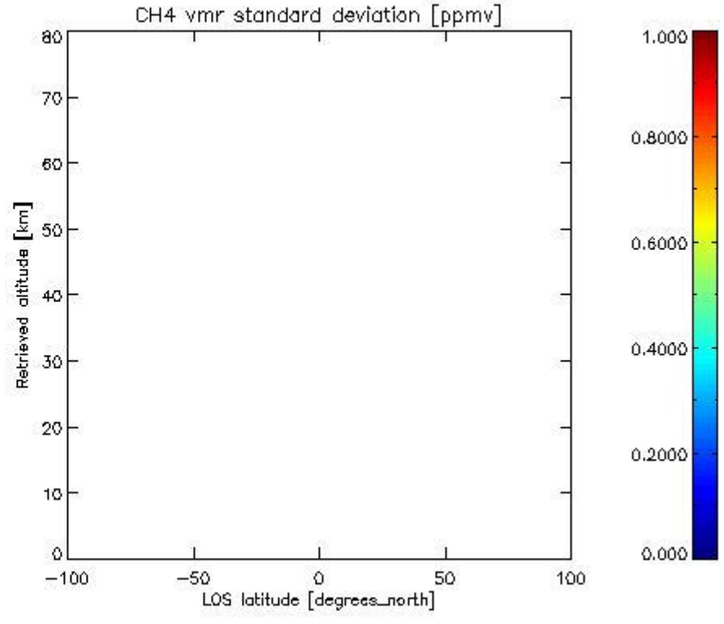
2.2.4.3 HNO3 overview **This section shows values (left) and error (right) for HNO3 after binning individual sweep values over retrieved altitude and tangent latitude.**



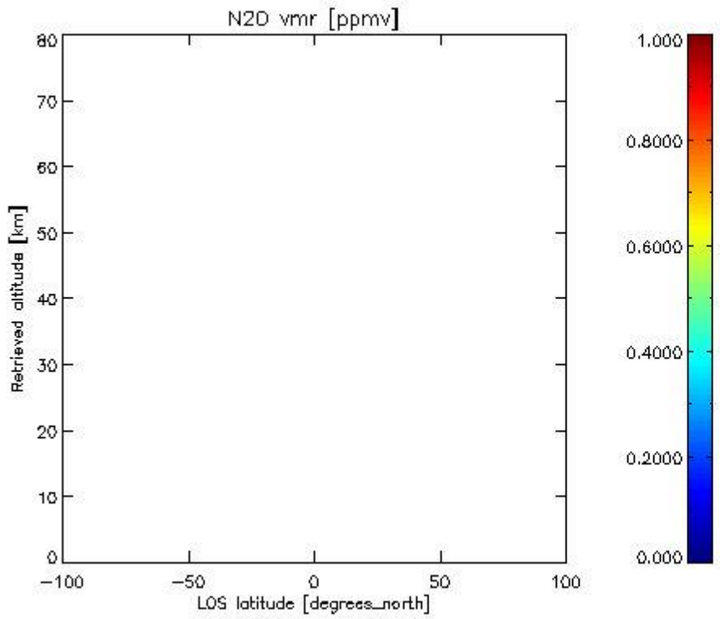


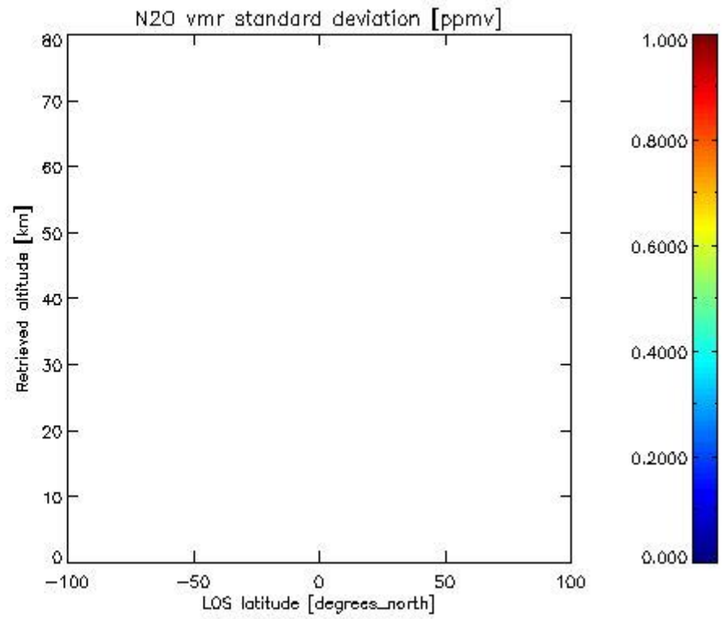
2.2.4.4 CH4 overview This section shows values (left) and error (right) for CH4 after binning individual sweep values over retrieved altitude and tangent latitude.



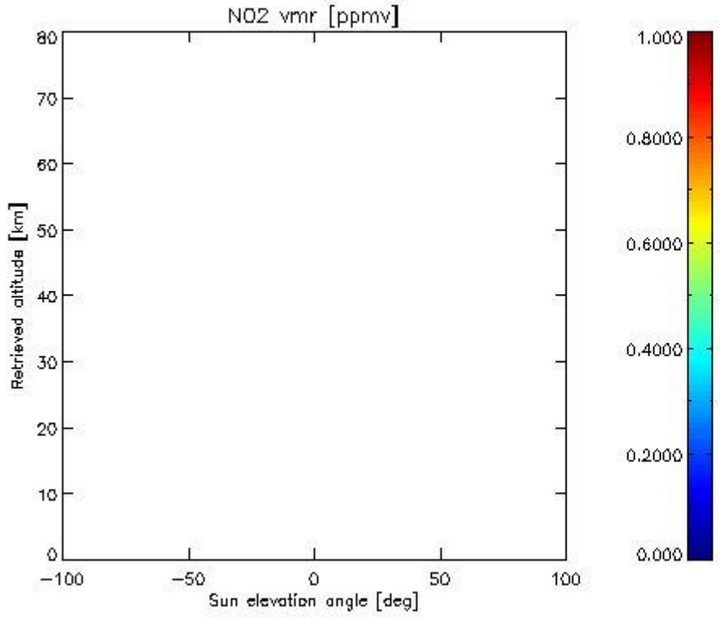


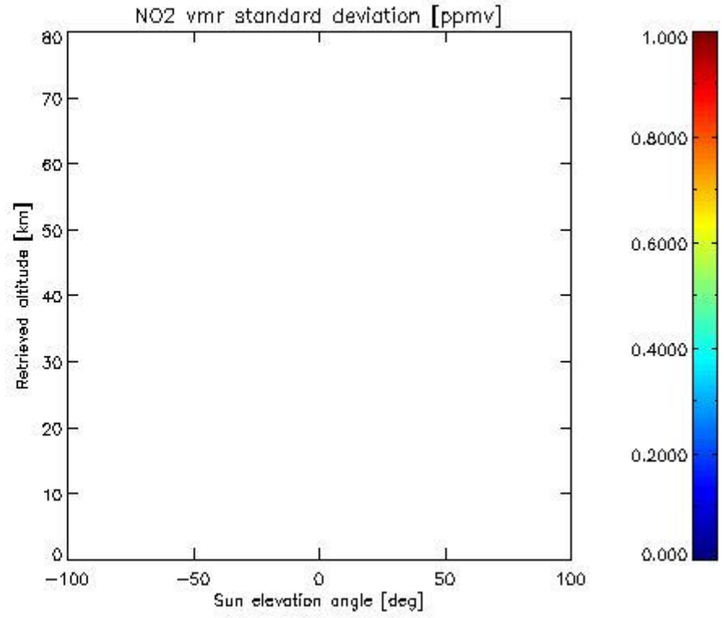
2.2.4.5 N2O overview This section shows values (left) and error (right) for N2O after binning individual sweep values over retrieved altitude and tangent latitude.



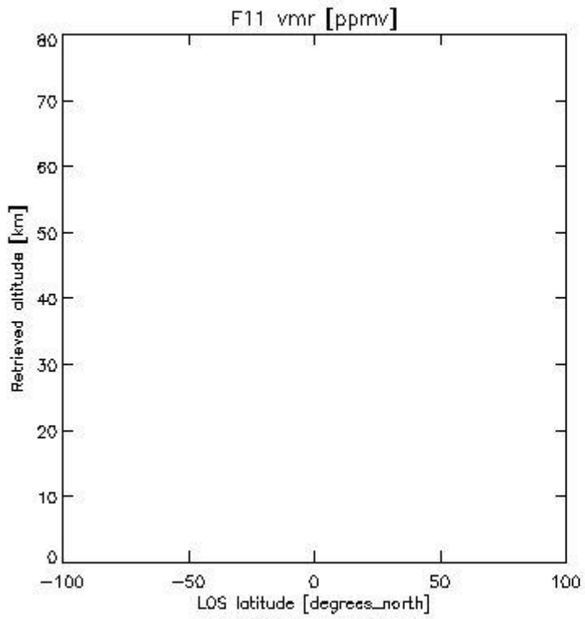


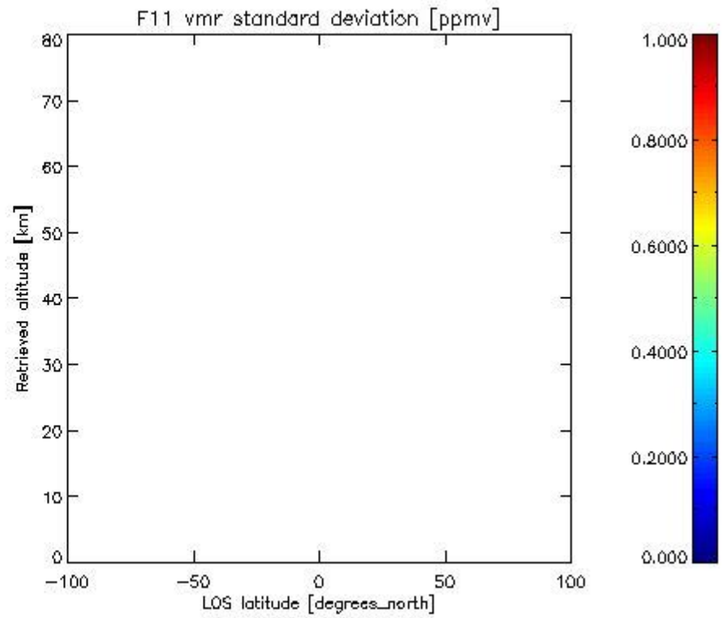
2.2.4.6 NO2 overview This section shows values (left) and error (right) for NO2 after binning individual sweep values over retrieved altitude and Sun Elevation Angle. Note that for NO2 the bin heights are 8 km.



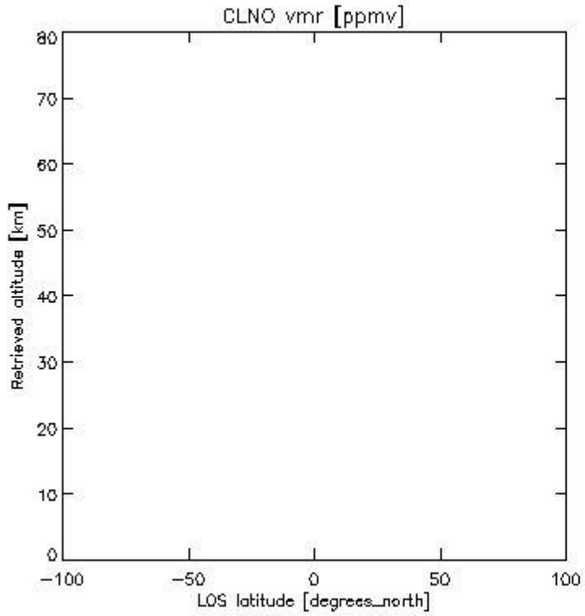


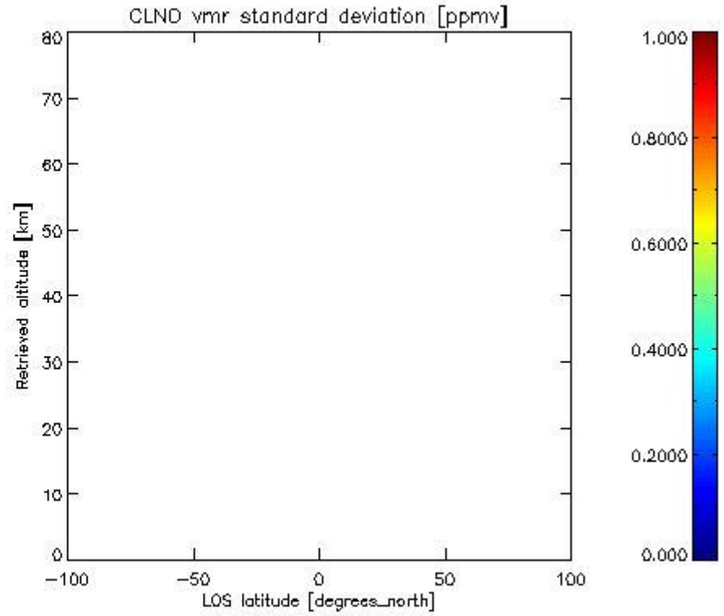
2.2.4.7 F11 overview This section shows values (left) and error (right) for F11 after binning individual sweep values over retrieved altitude and tangent latitude.

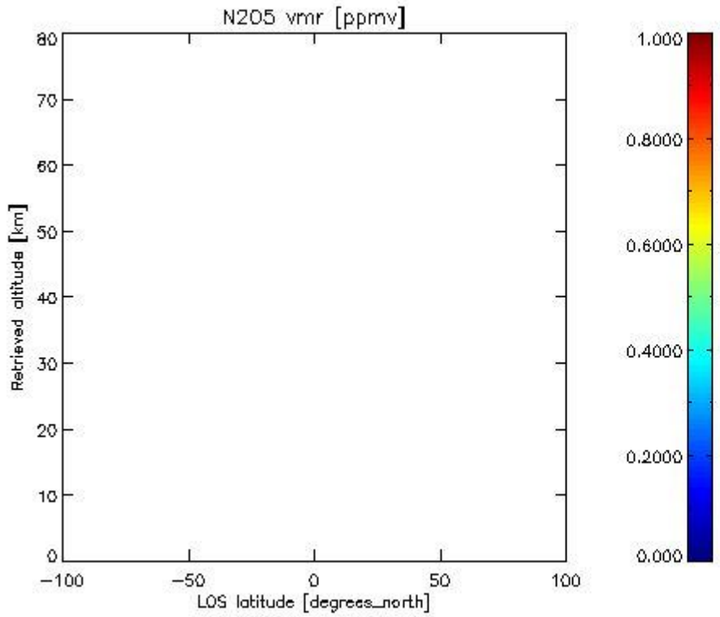


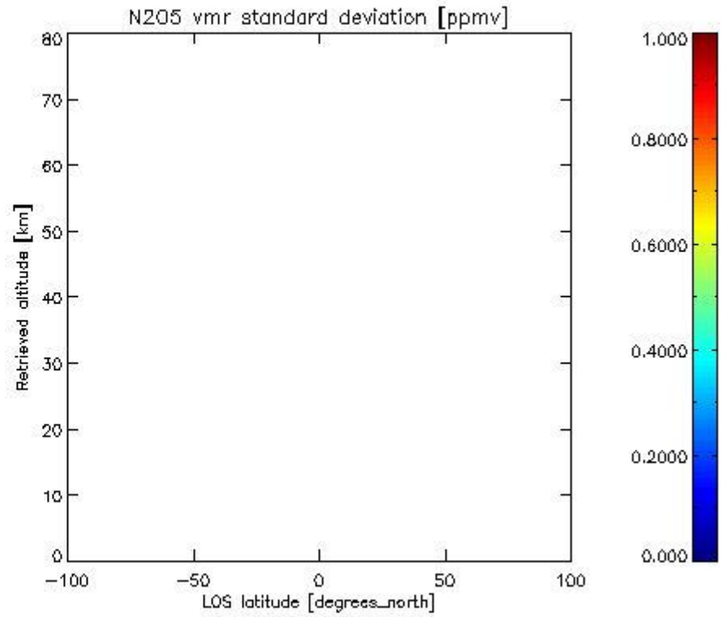


2.2.4.8 CLNO overview This section shows values (left) and error (right) for CLNO after binning individual sweep values over retrieved altitude and tangent latitude.






N2O5 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000


N2O5 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
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70
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40
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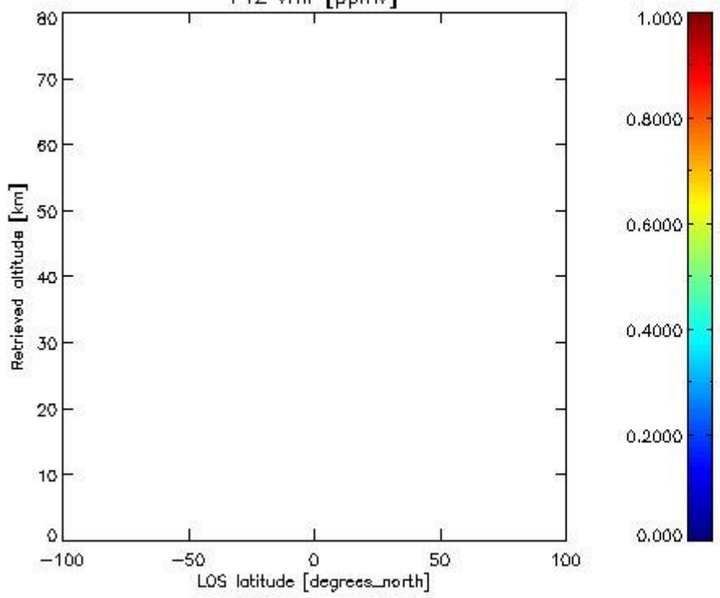
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000


F12 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
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40
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50
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1.000
0.8000
0.6000
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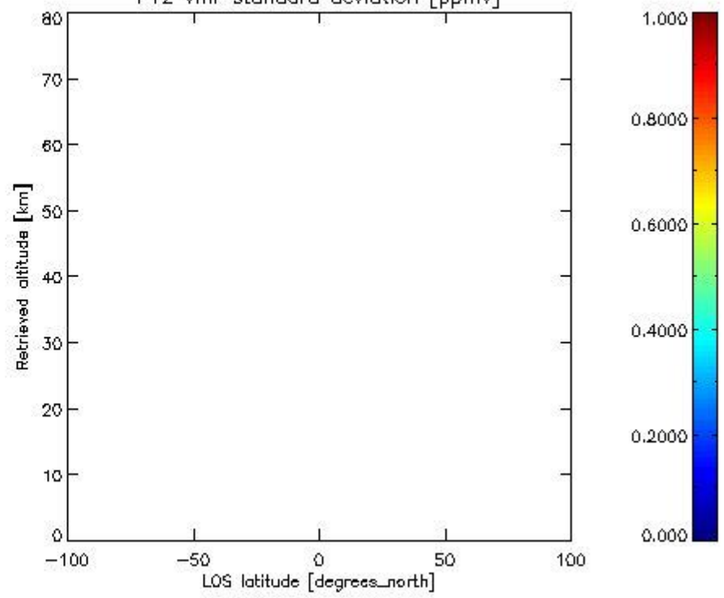
0.2000
0.000


F12 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
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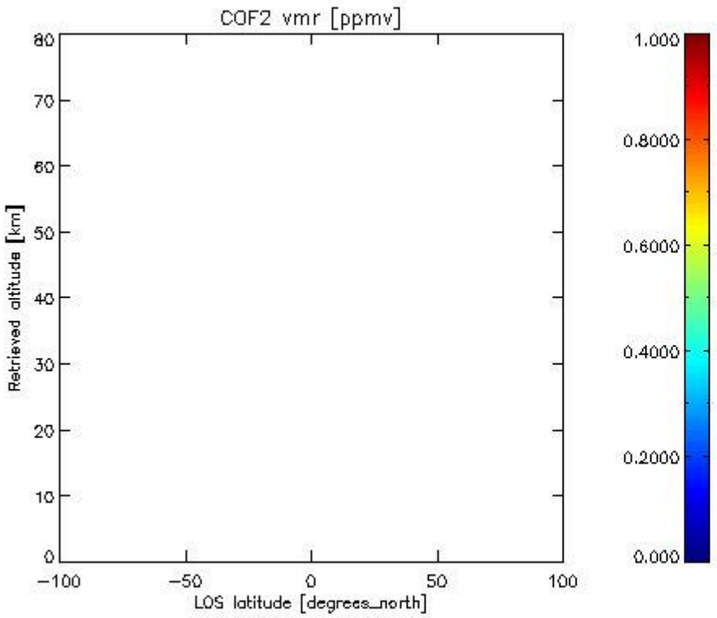
0.2000
0.000


COF2 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
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20
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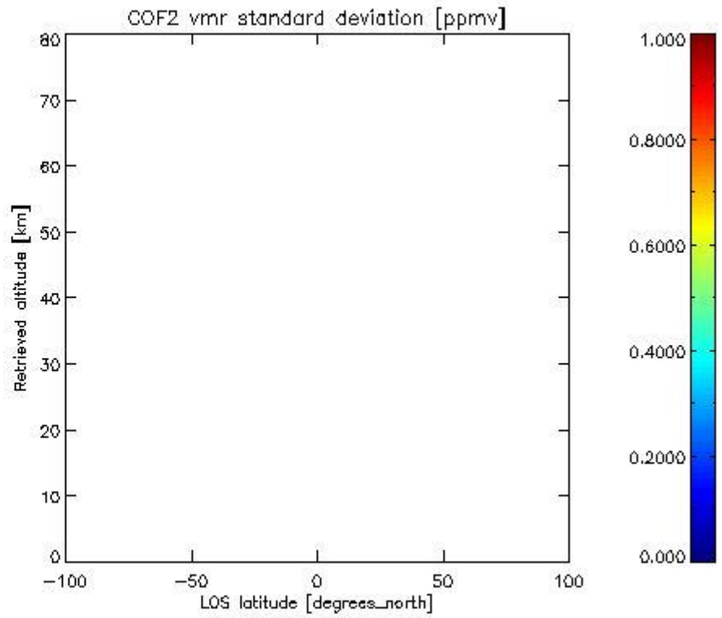
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000


COF2 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
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70
60
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40
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50
100
1.000
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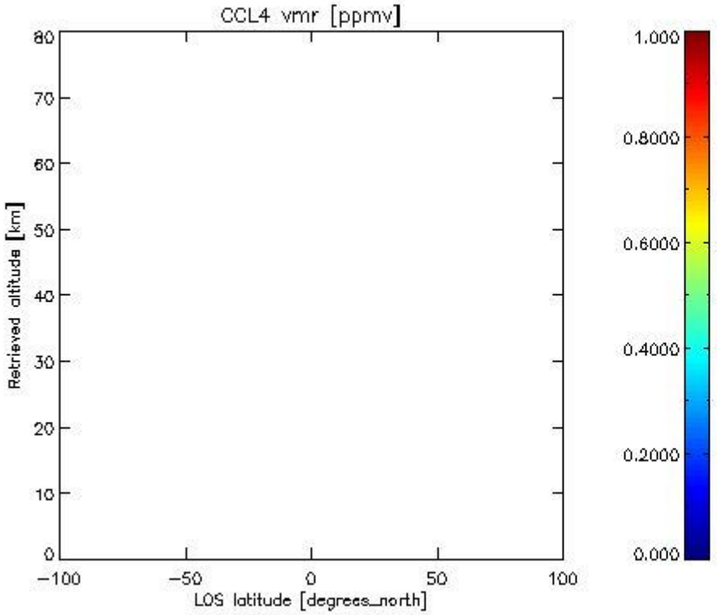
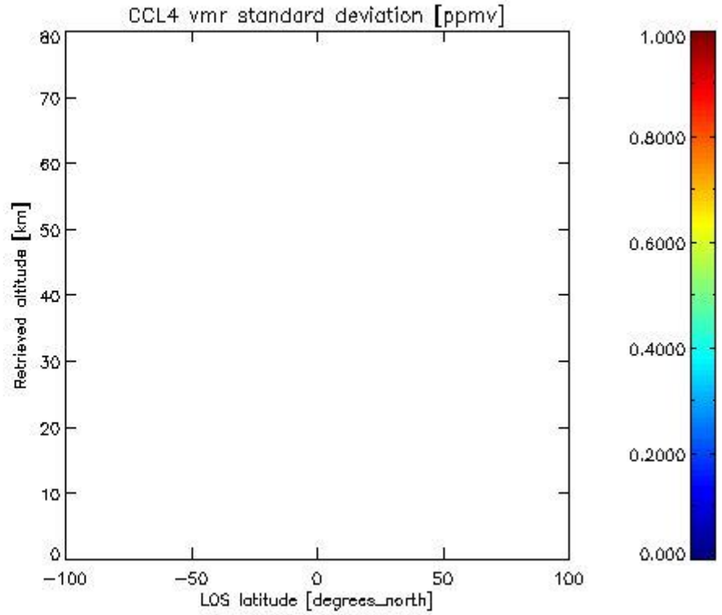
0.000


CCL4 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000


CCL4 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
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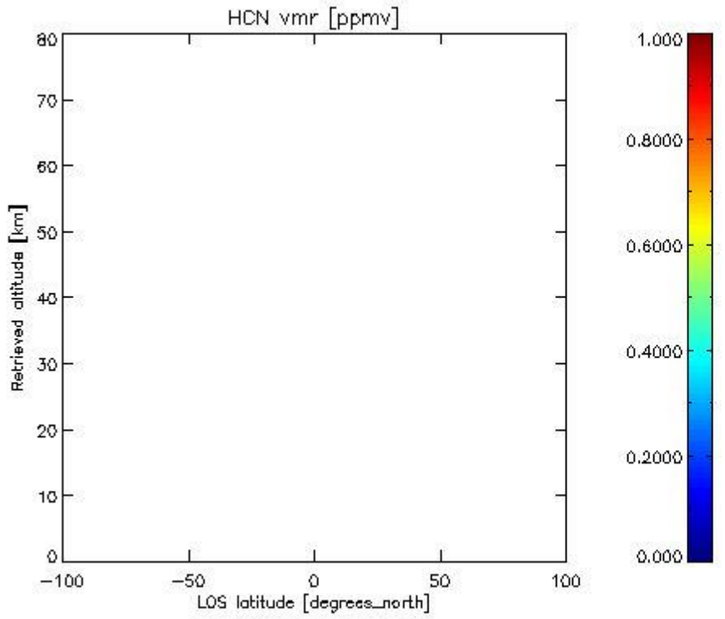
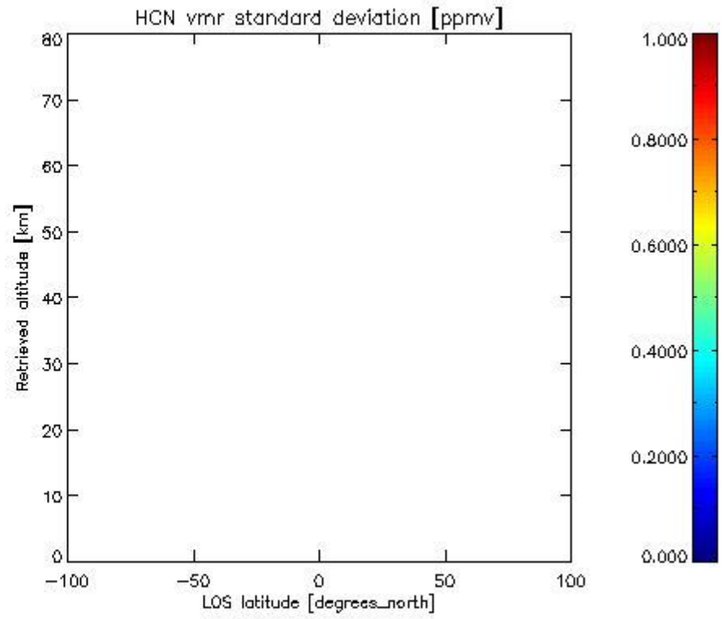
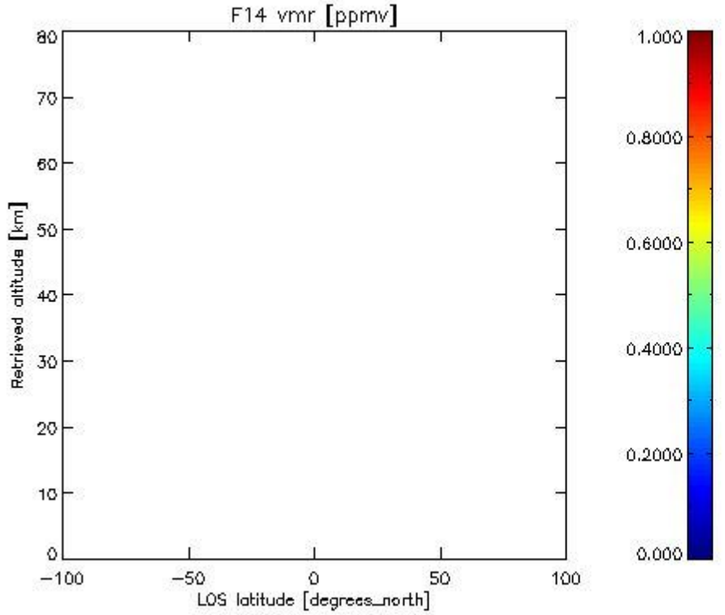
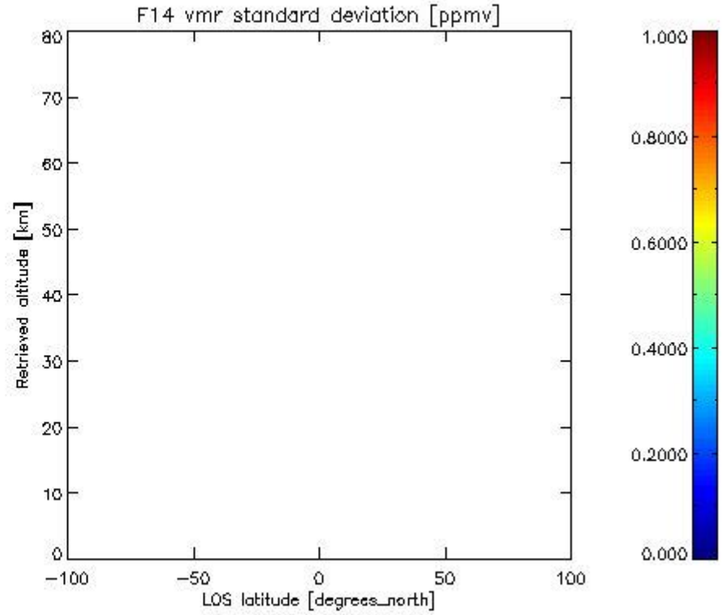
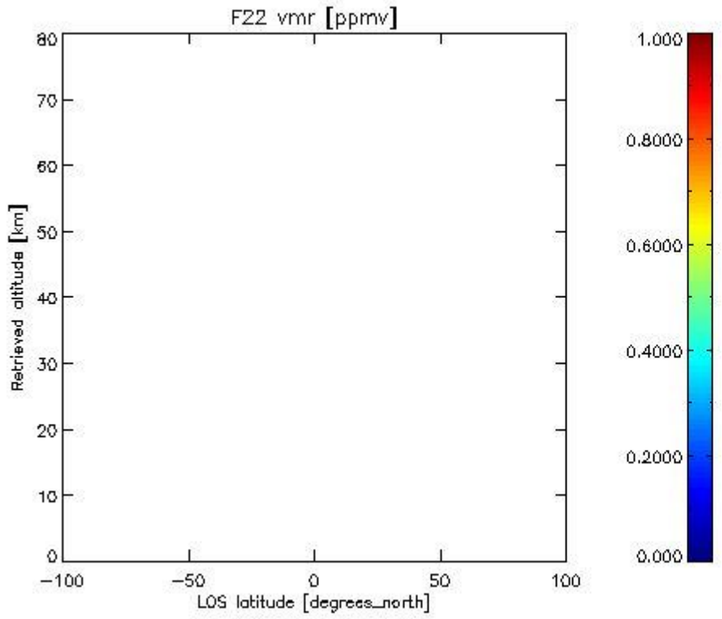
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

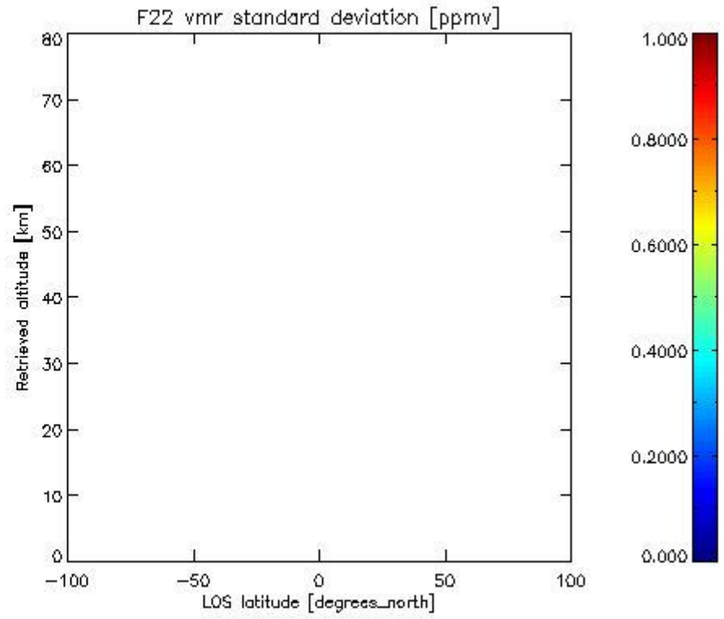

HCN vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000


HCN vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000


F14 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000


F14 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000





2.2.4 Daily average at 100.0 hPa

No zonal plots for pressure level 100.00000 due to unavailability of pressure data.

2.2.5 Daily average at 10.0 hPa

No zonal plots for pressure level 10.00000 due to unavailability of pressure data.

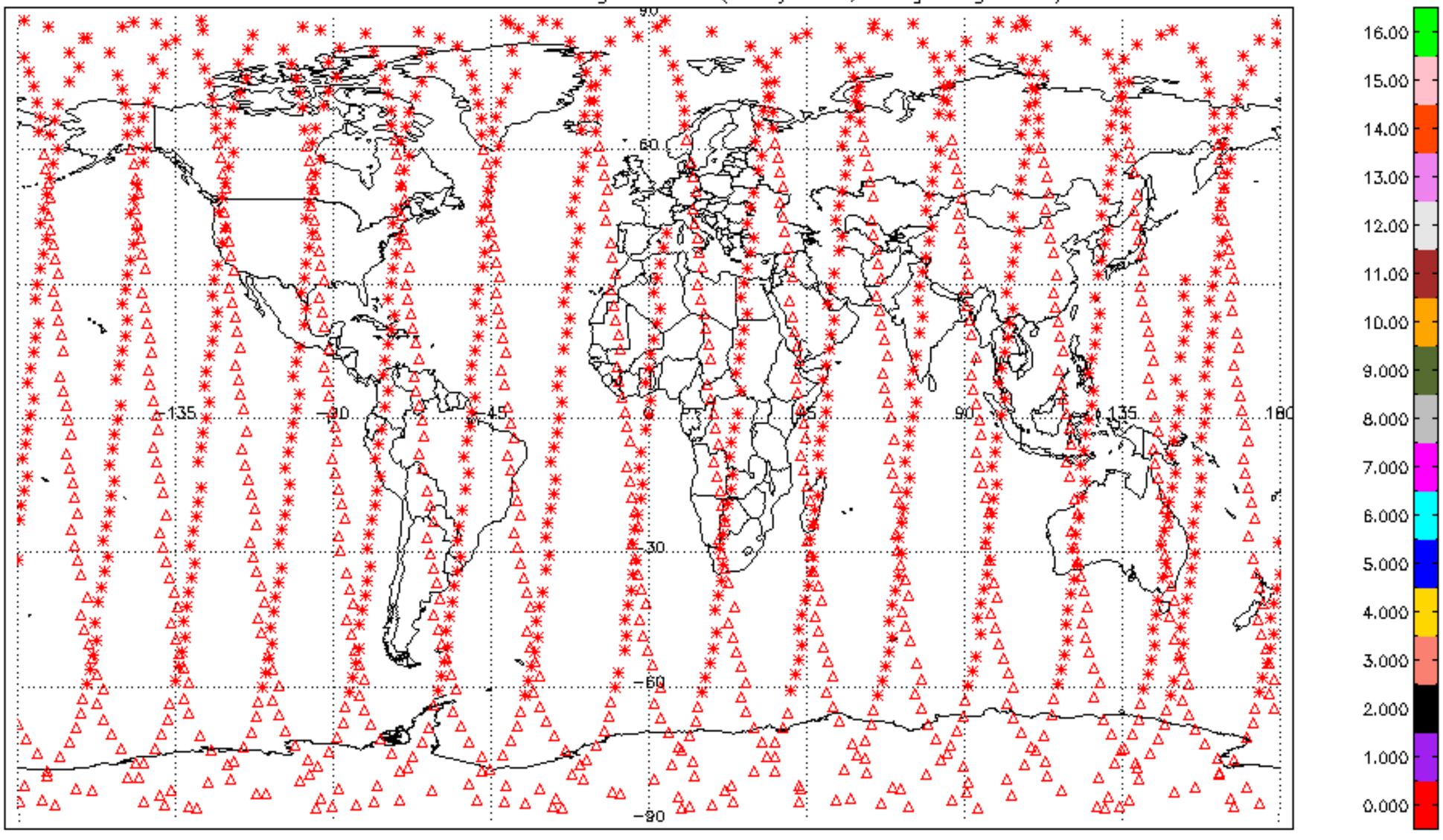
2.2.6 Daily average at 1.0 hPa

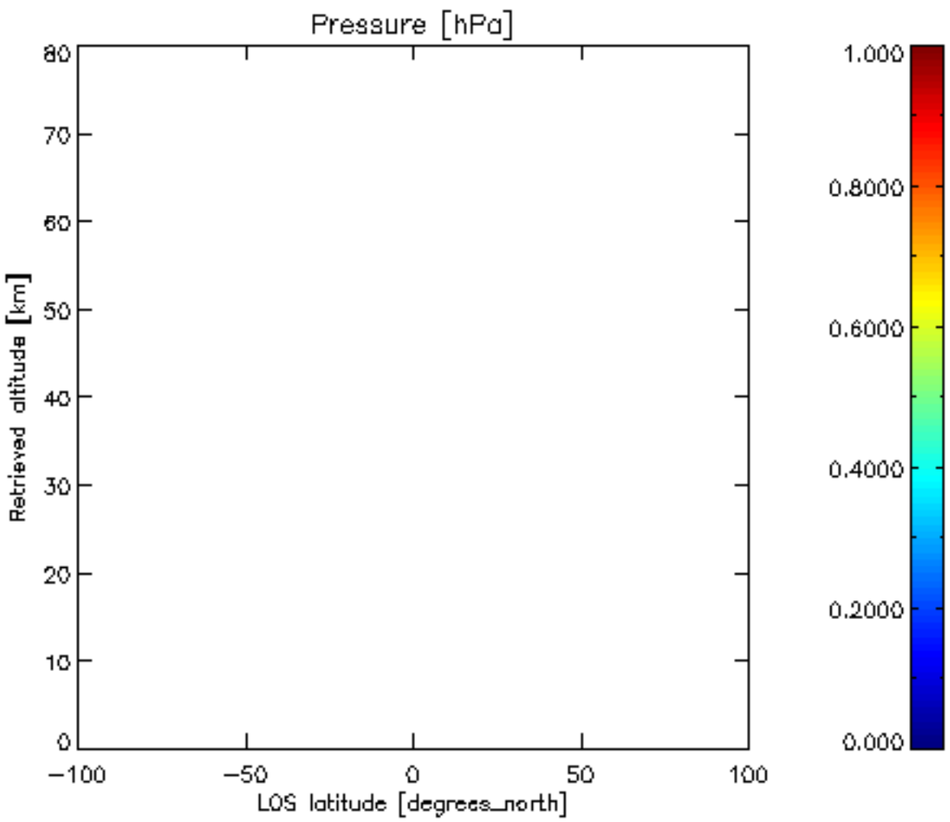
No zonal plots for pressure level 1.00000 due to unavailability of pressure data.

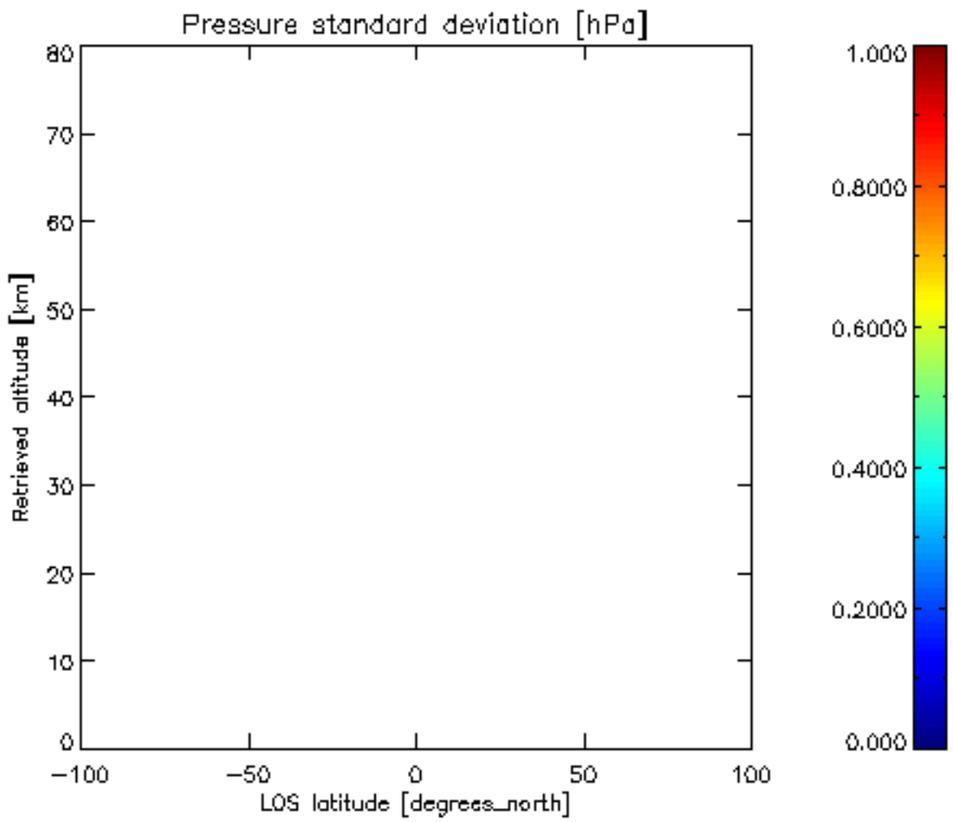
2.2.6 Daily average at 0.1 hPa

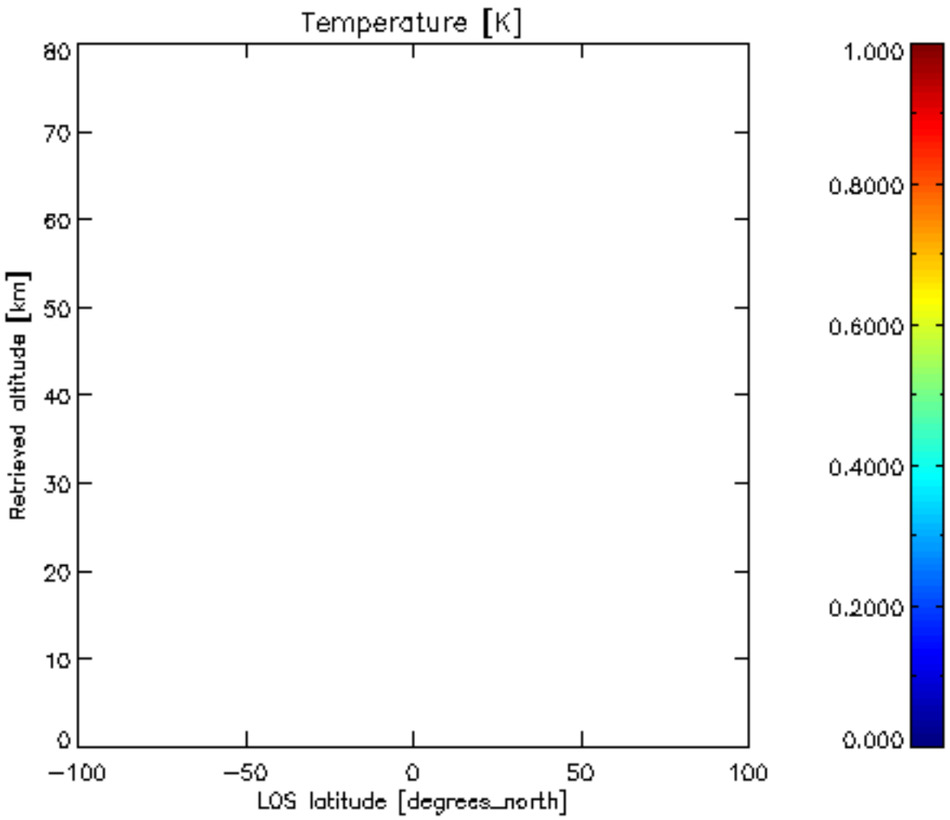
No zonal plots for pressure level 0.100000 due to unavailability of pressure data.

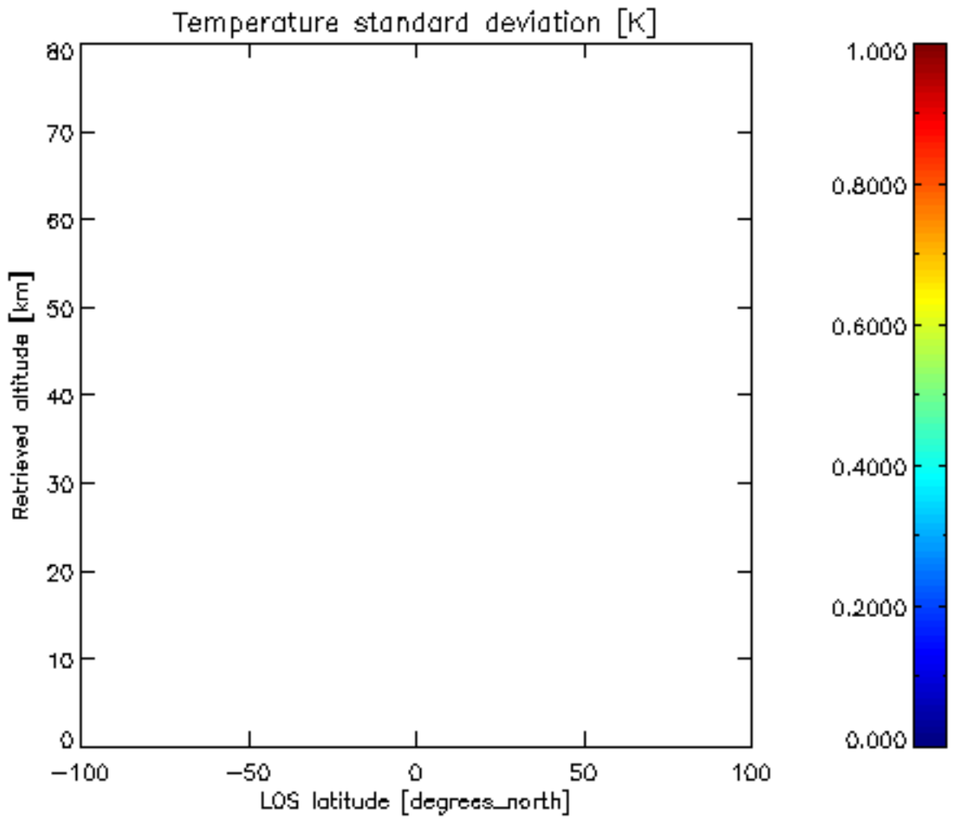
Number of successful retrievals vs. geolocation (*=day side , triangle=night side).

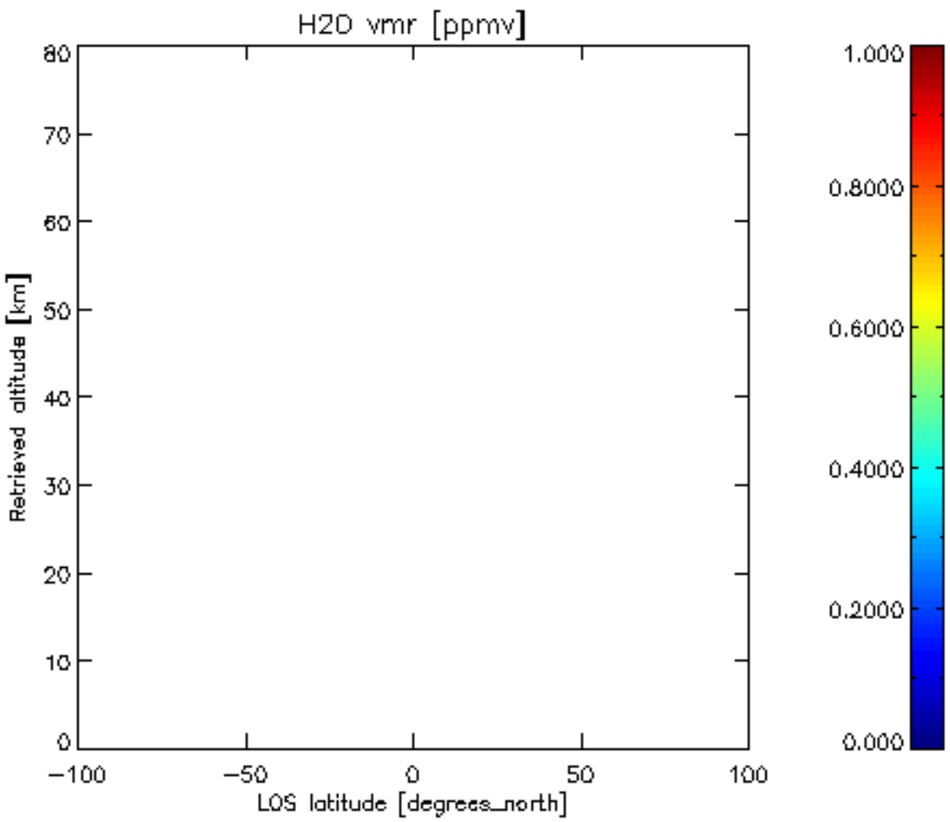


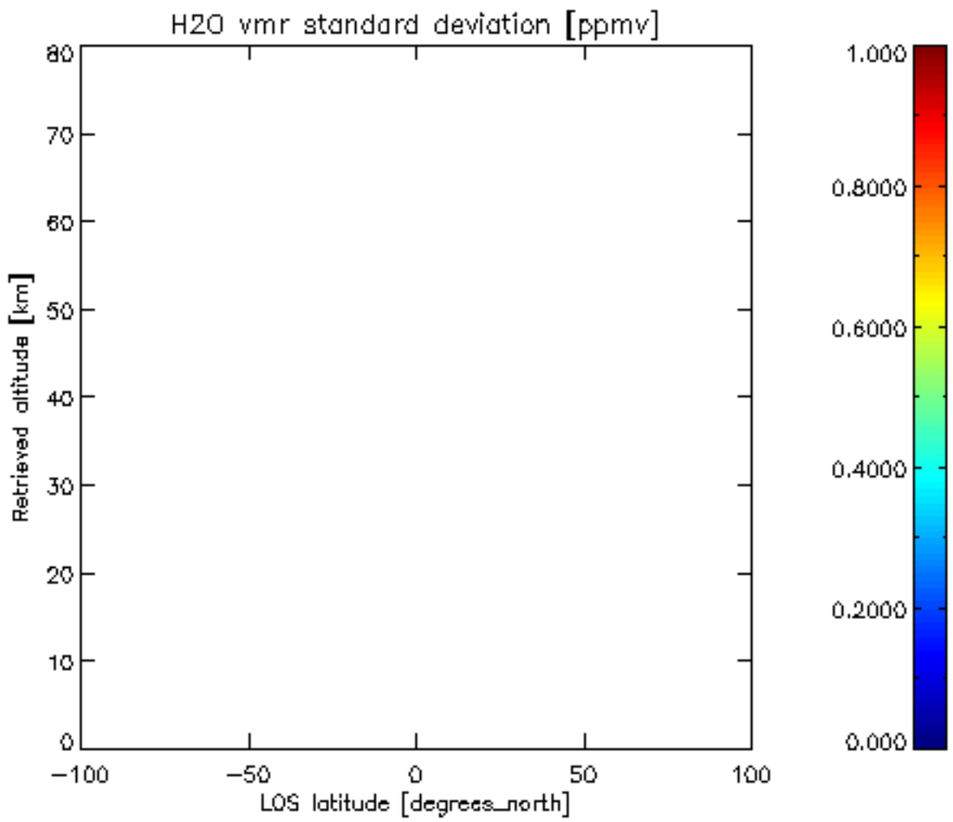

Pressure [hPa]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

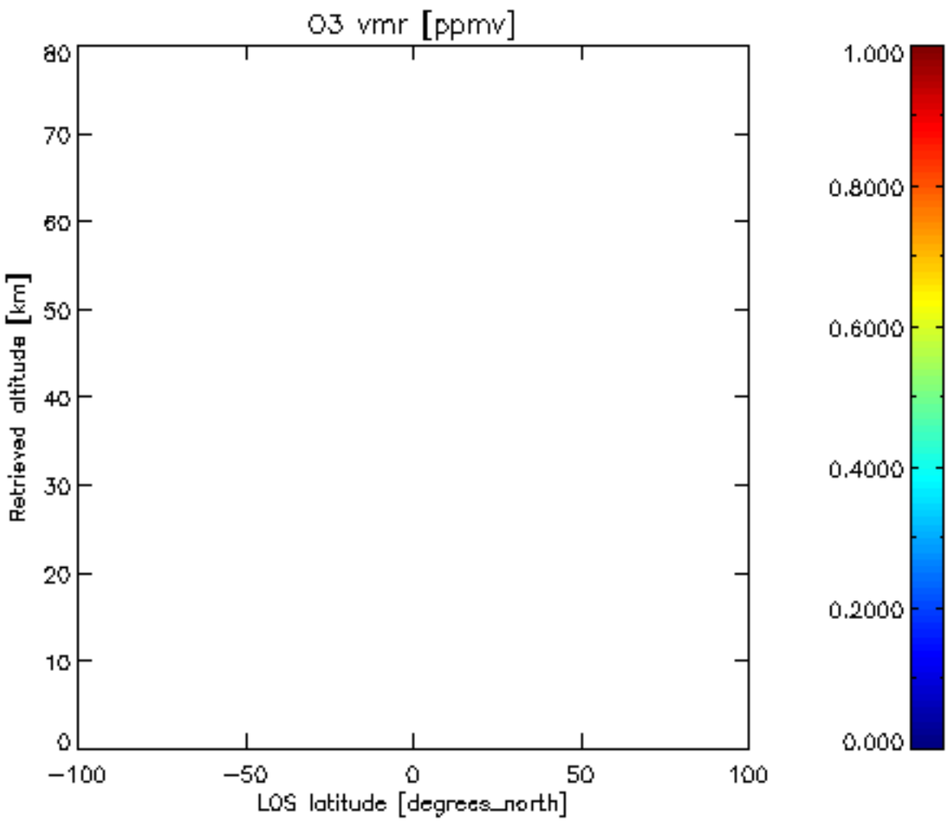

Pressure standard deviation [hPa]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

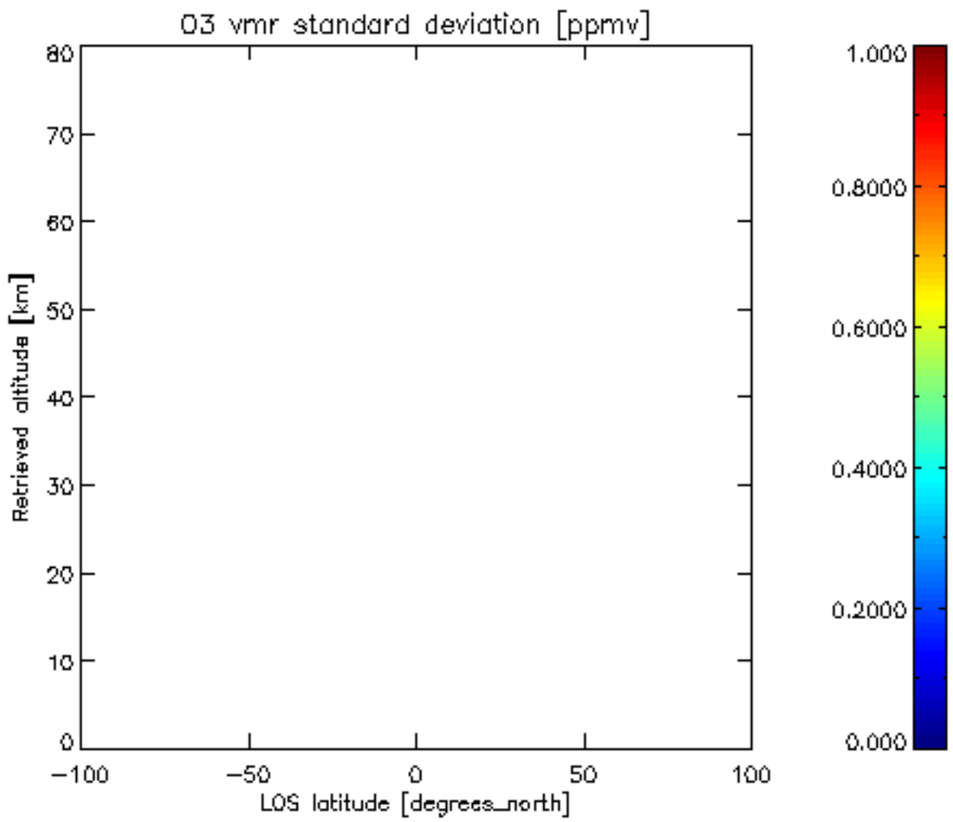

Temperature [K]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

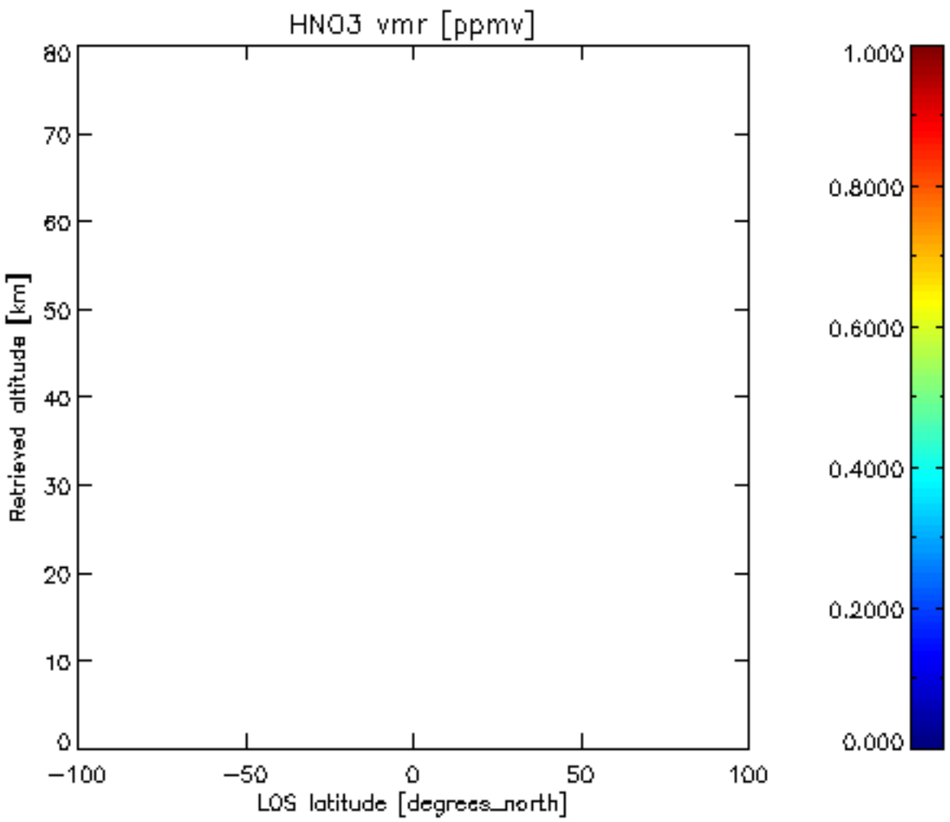

Temperature standard deviation [K]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

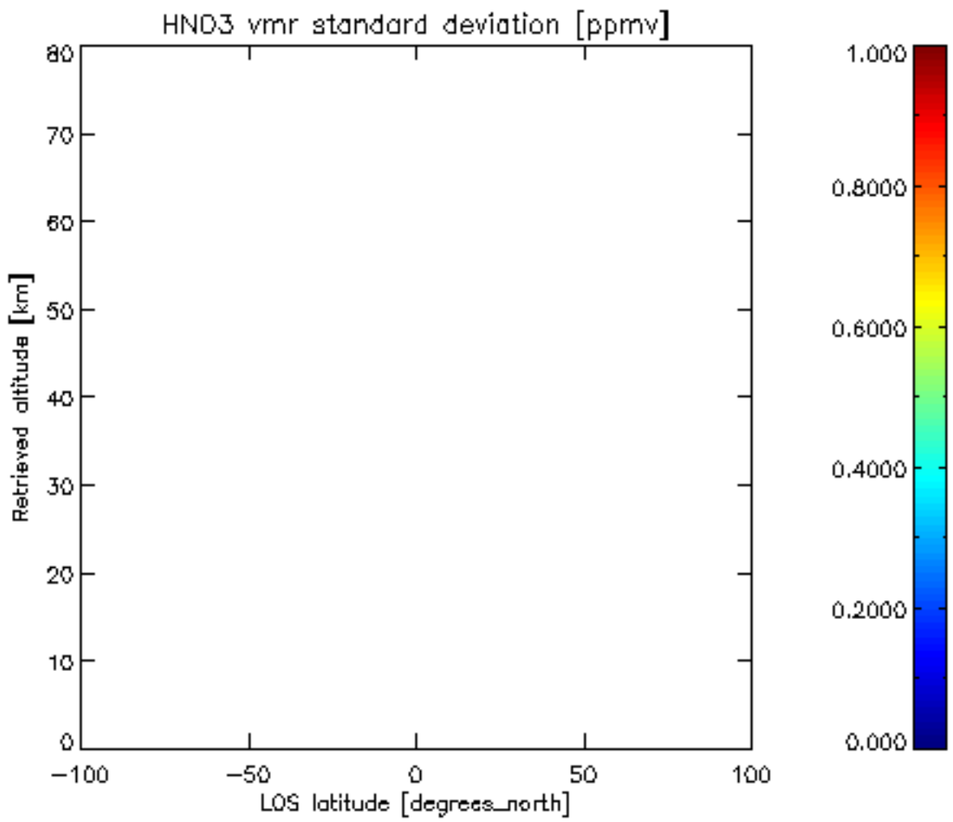

H2O vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

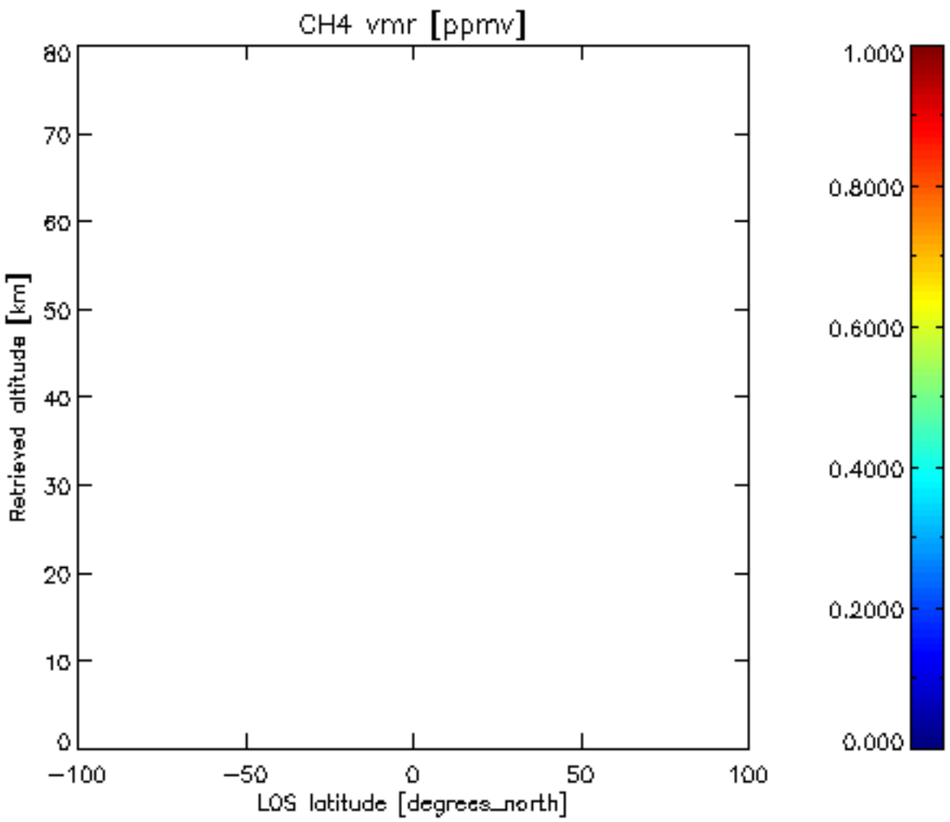

H2O vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

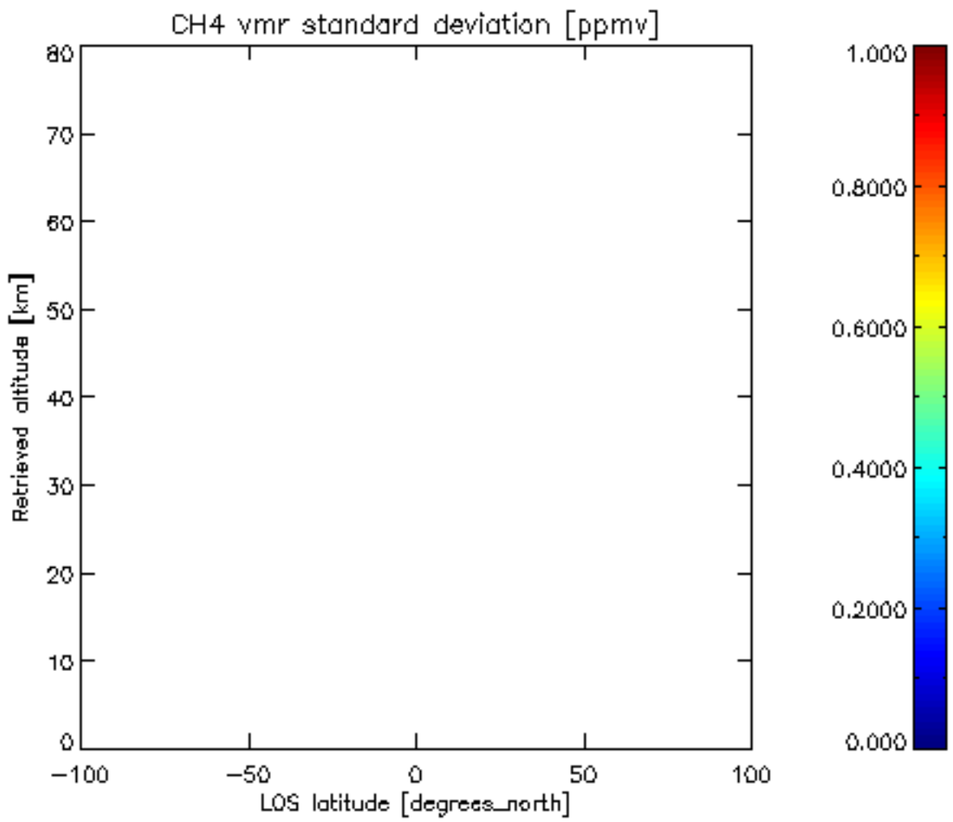

O3 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

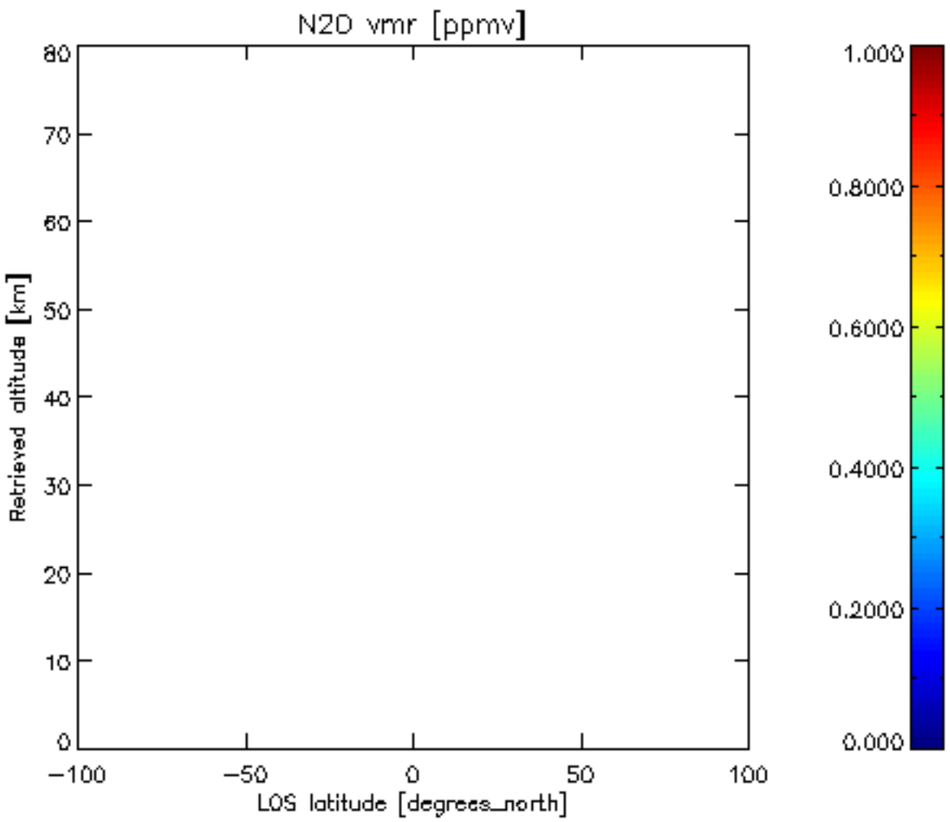

O3 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

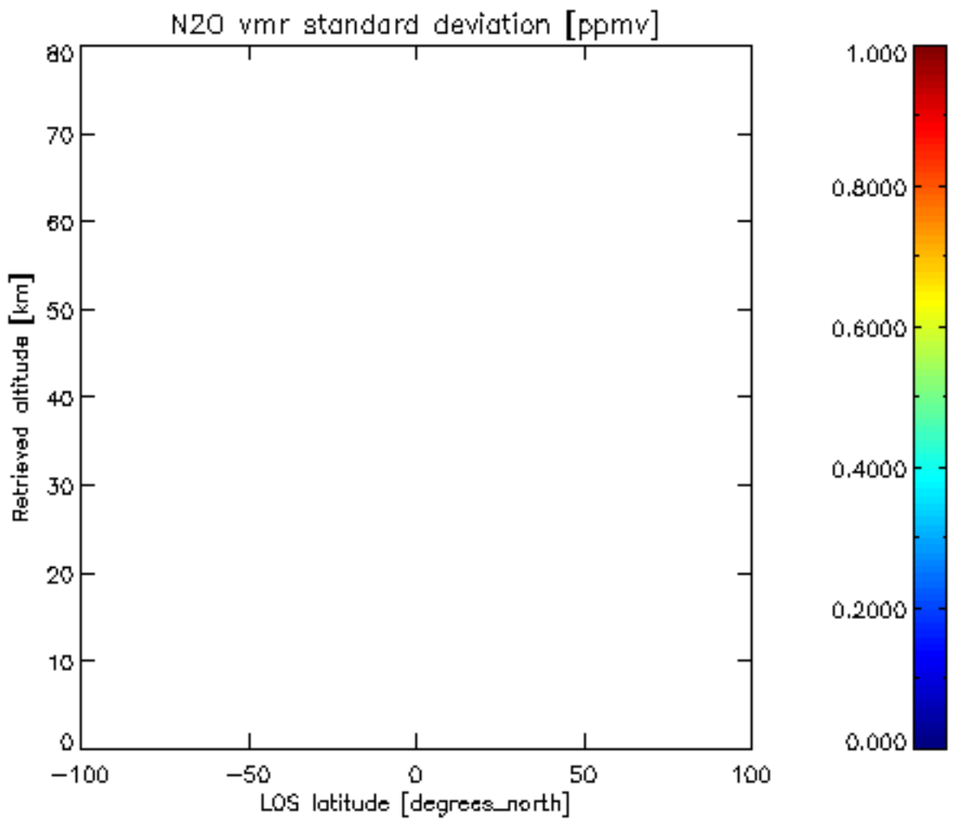

HNO3 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

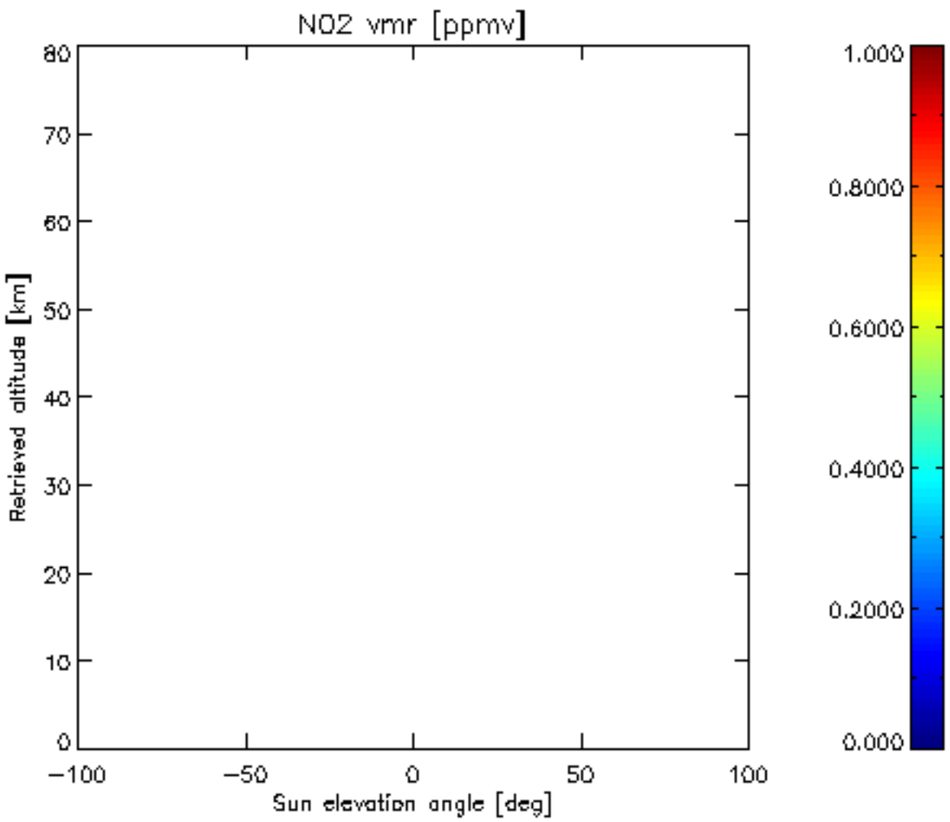

HNO3 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

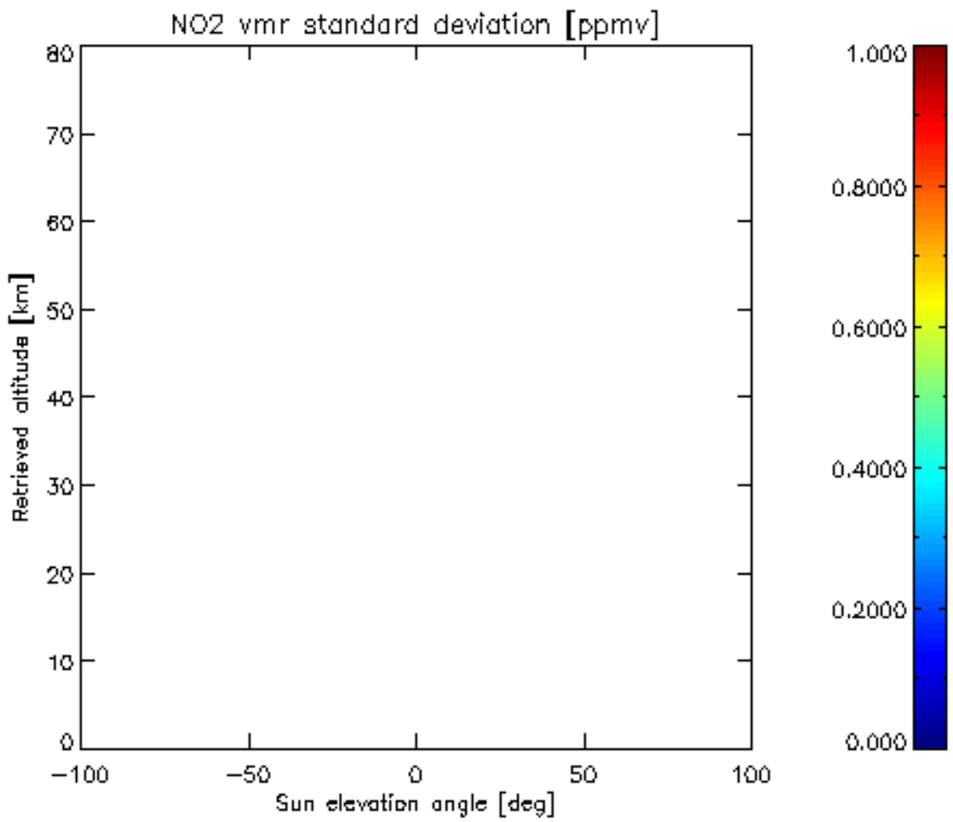

CH4 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

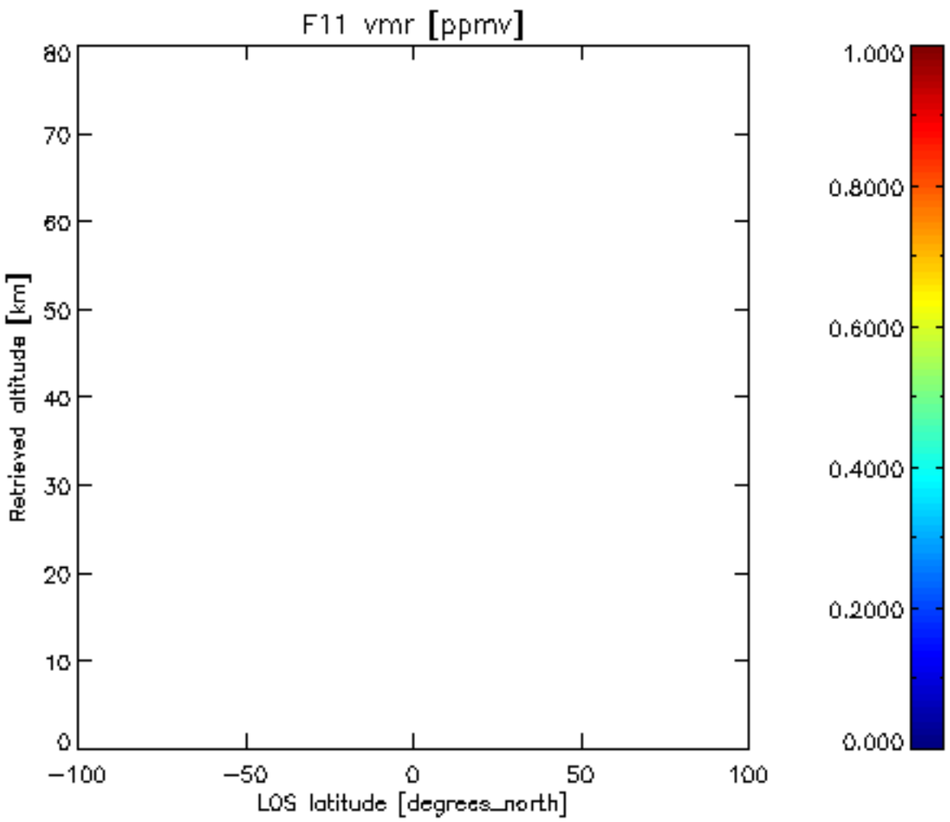

CH4 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

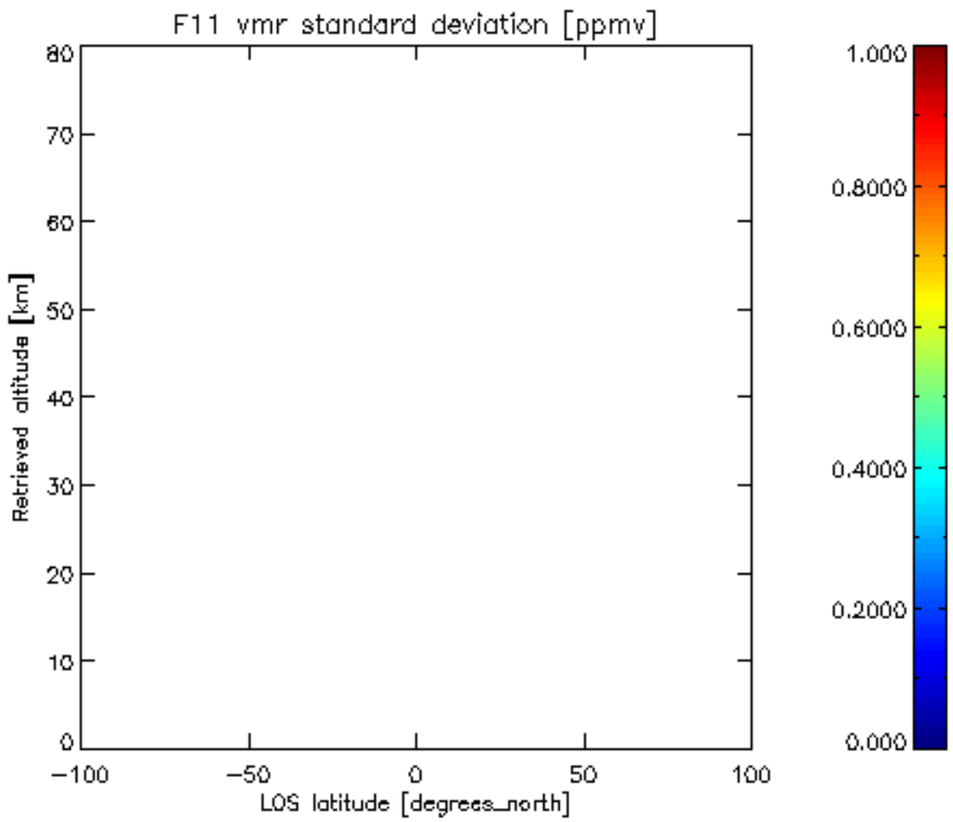

N2O vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

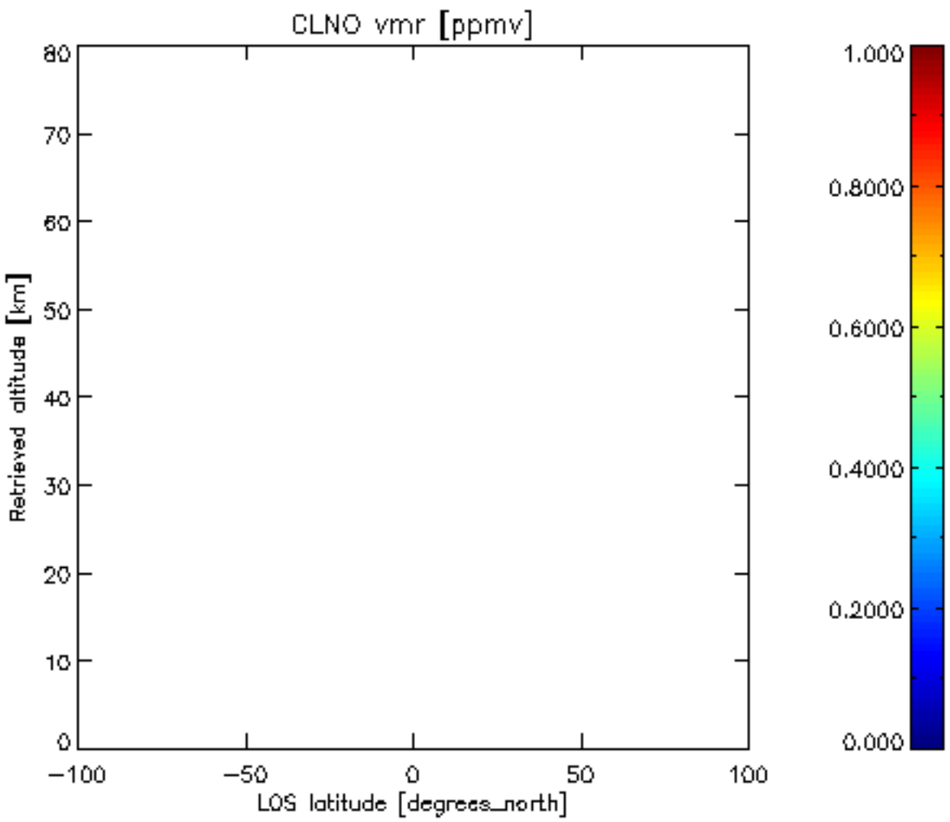

N2O vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

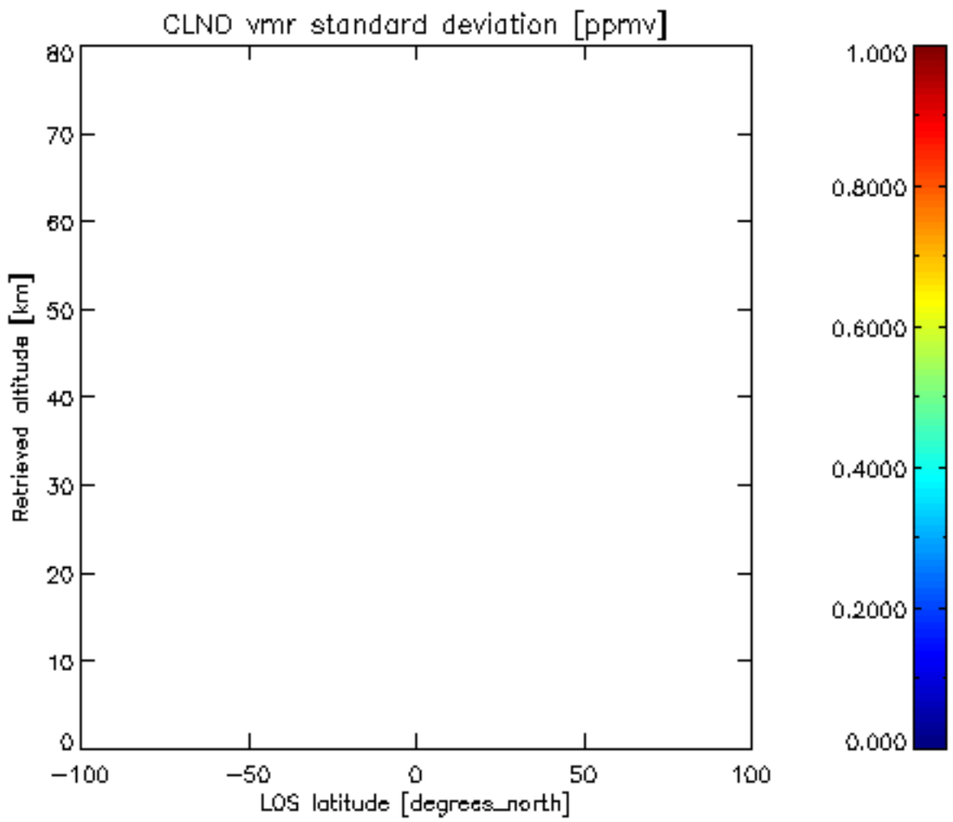

NO2 vmr [ppmv]
Retrieved altitude [km]
Sun elevation angle [deg]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

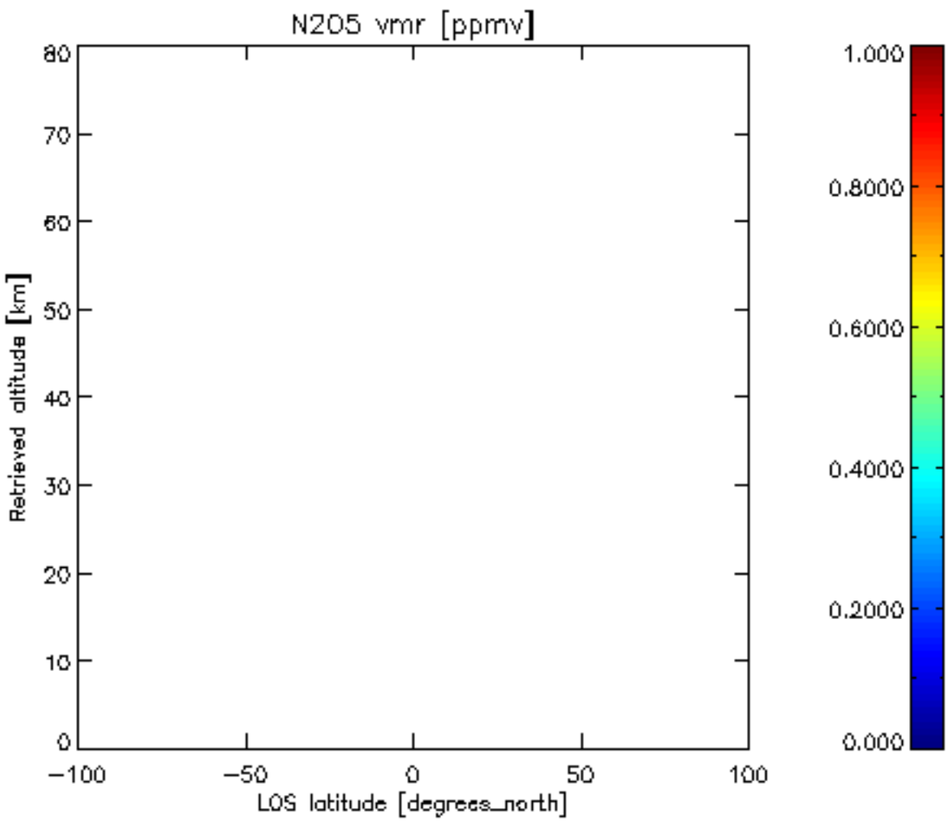

NO2 vmr standard deviation [ppmv]
Retrieved altitude [km]
Sun elevation angle [deg]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000


F11 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000


F11 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000


CLNO vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000


CLNO vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000


N2O5 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
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20
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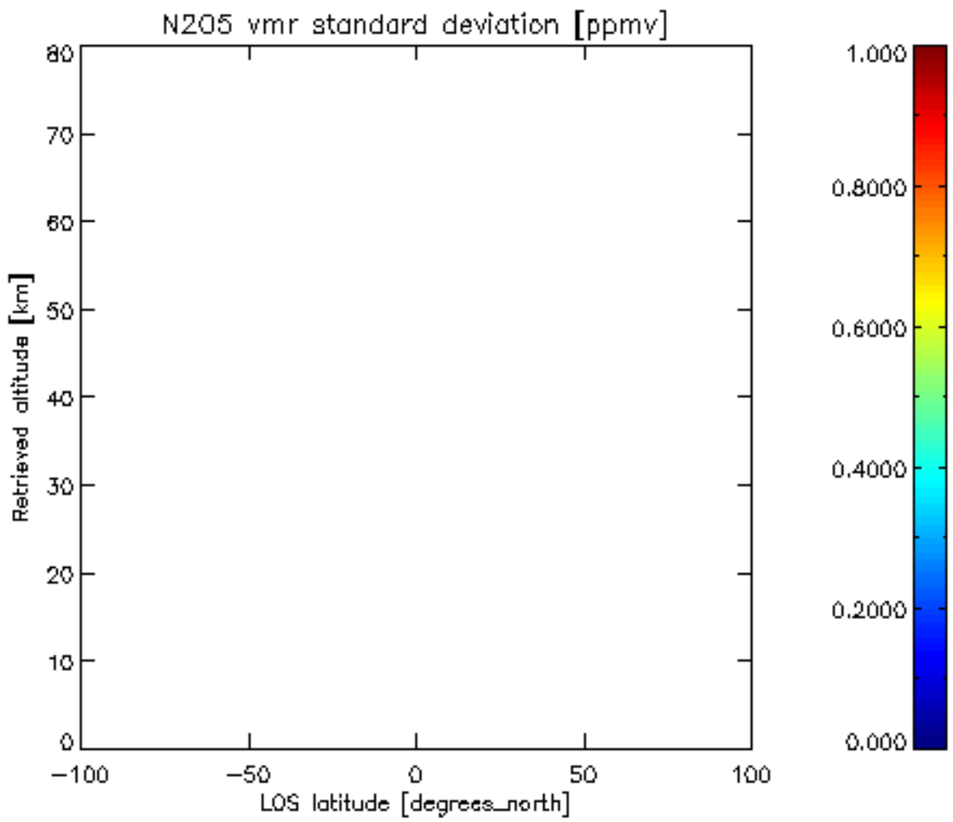
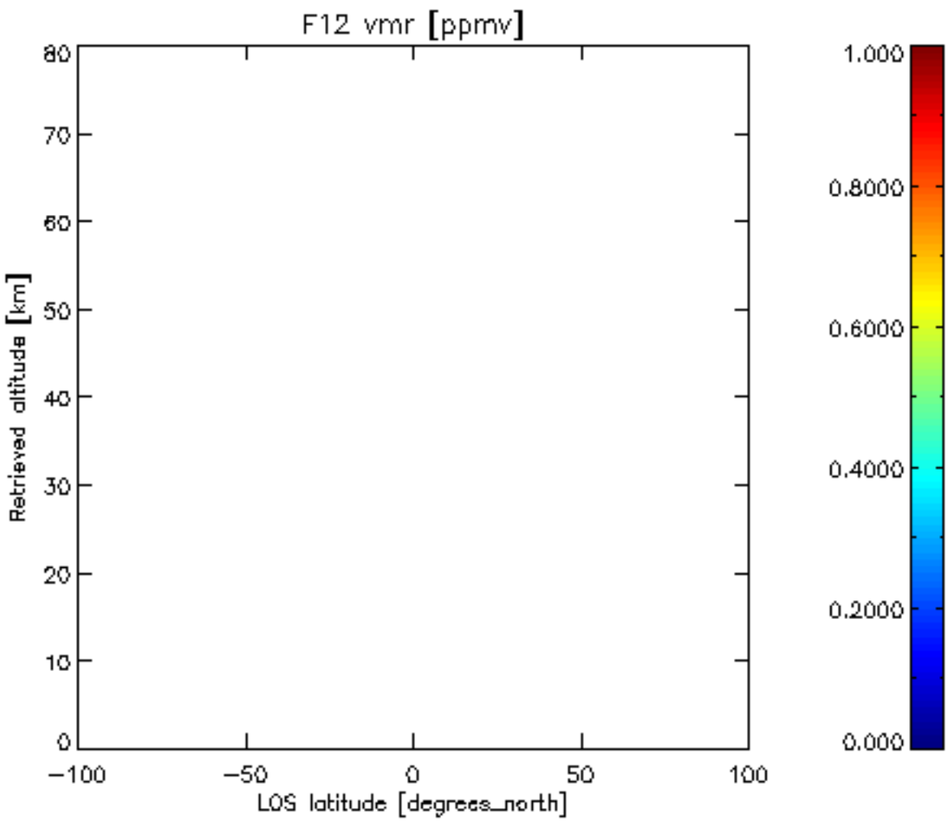
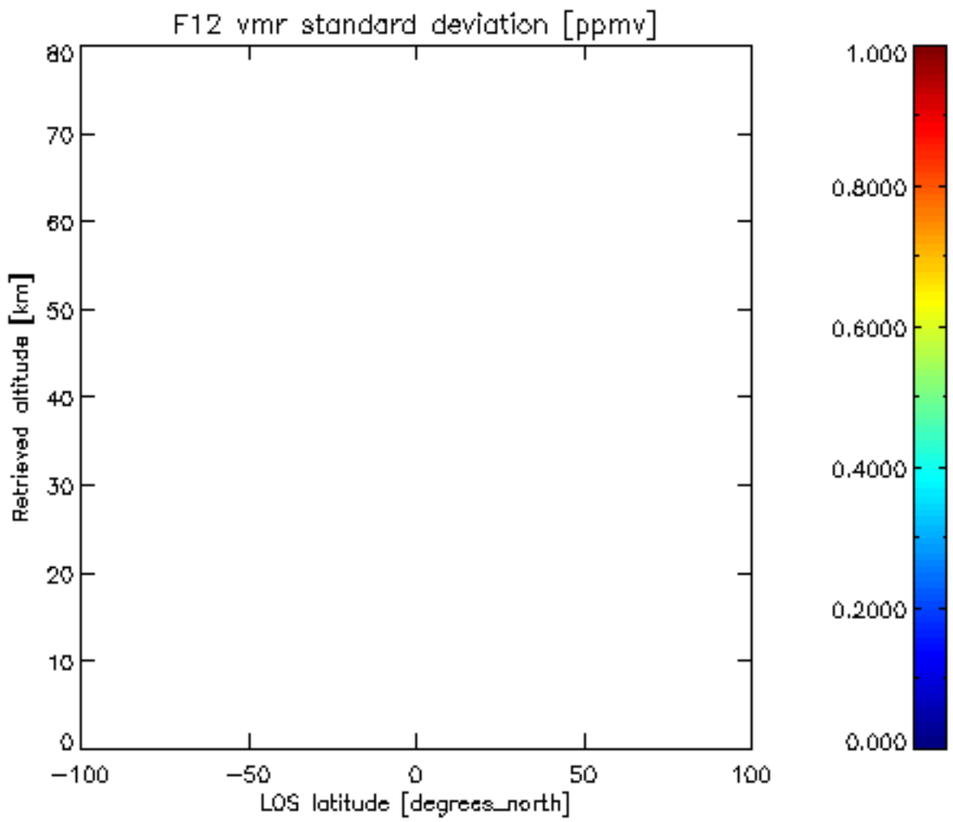
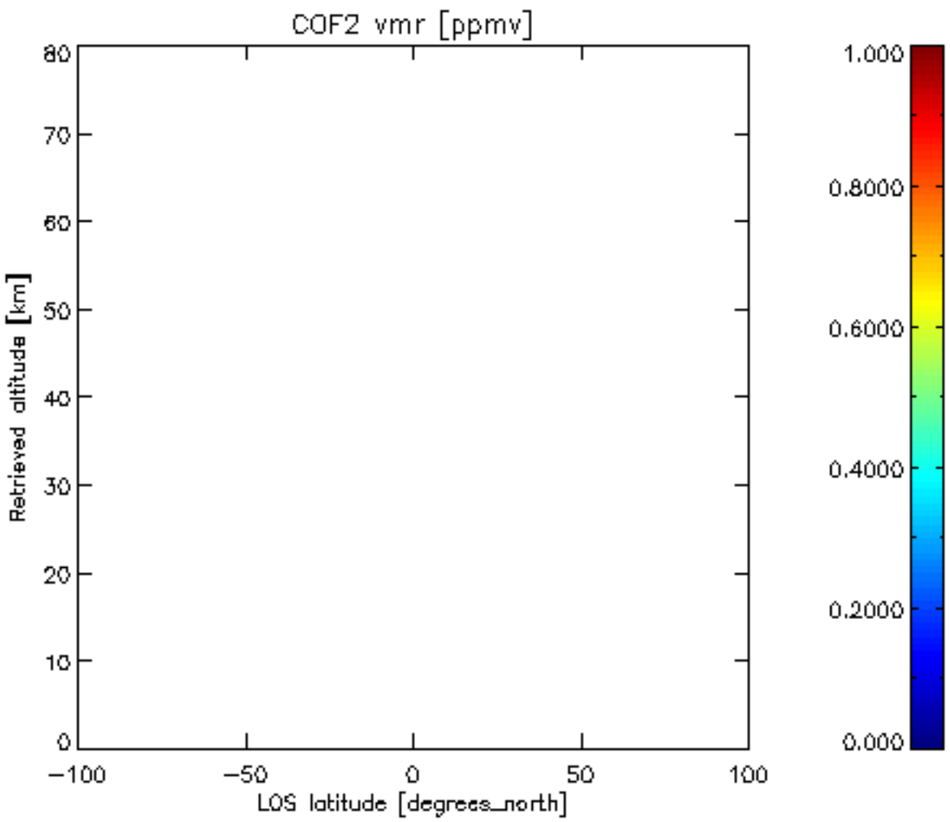
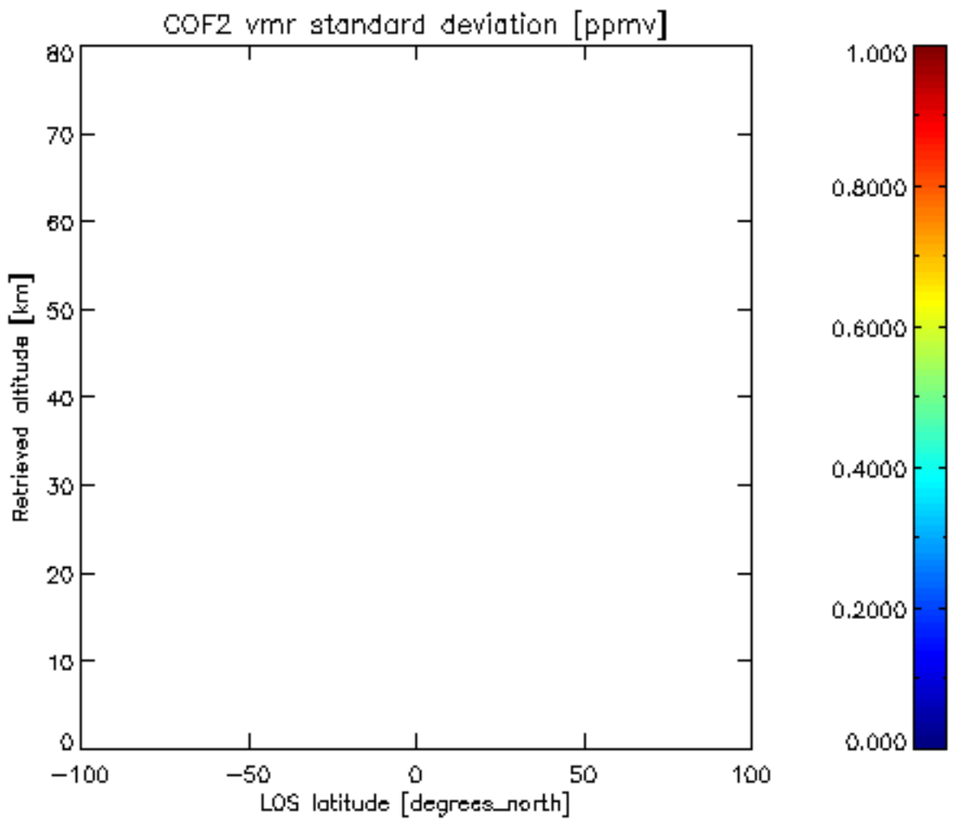
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

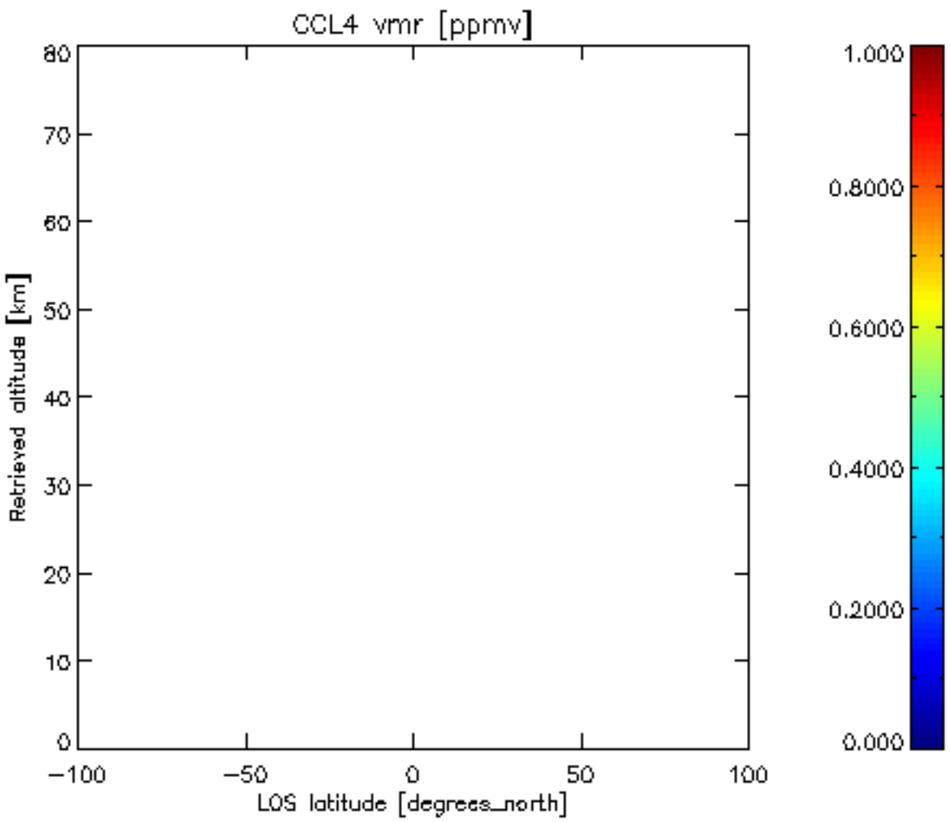

N2O5 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

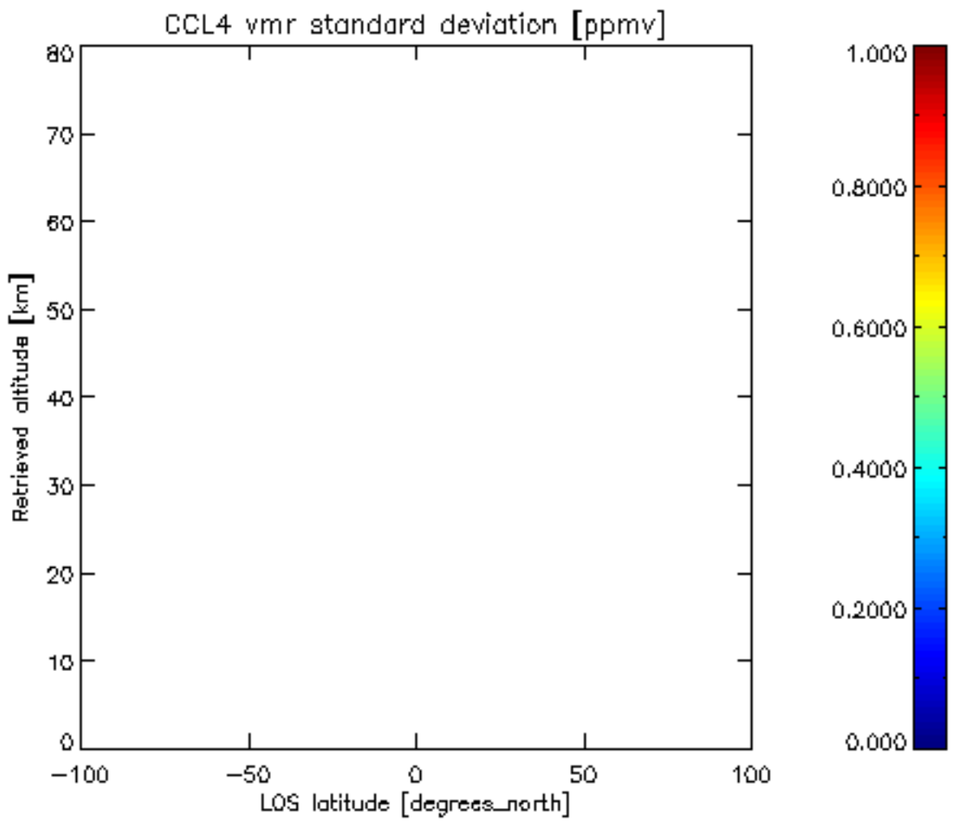

F12 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

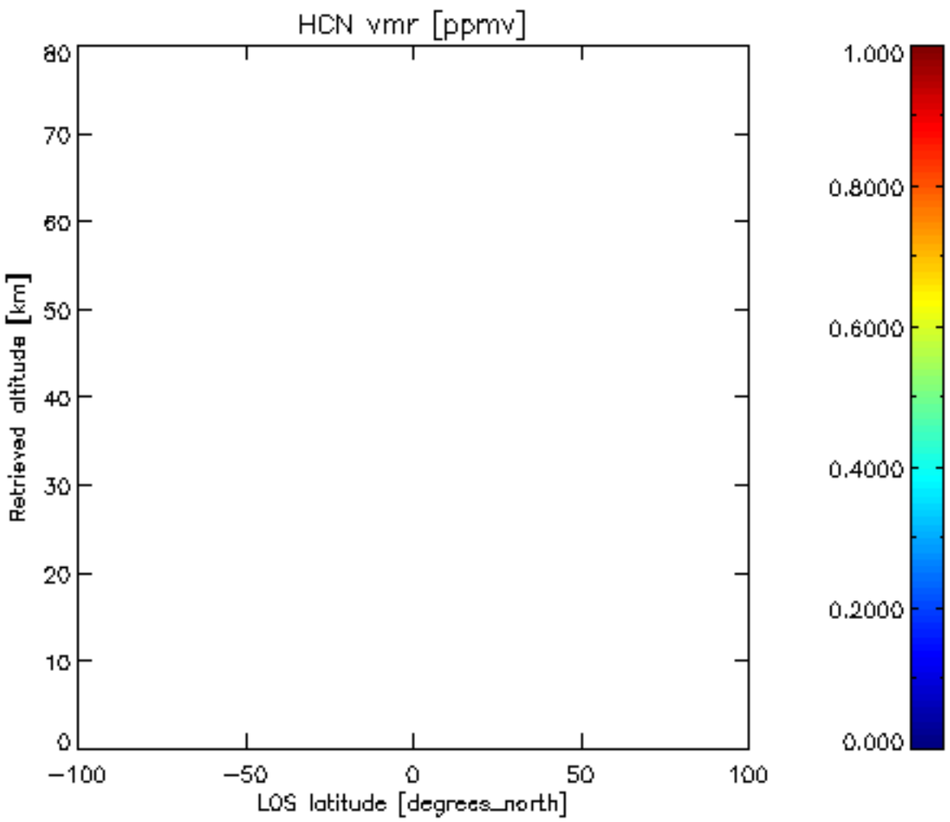

F12 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

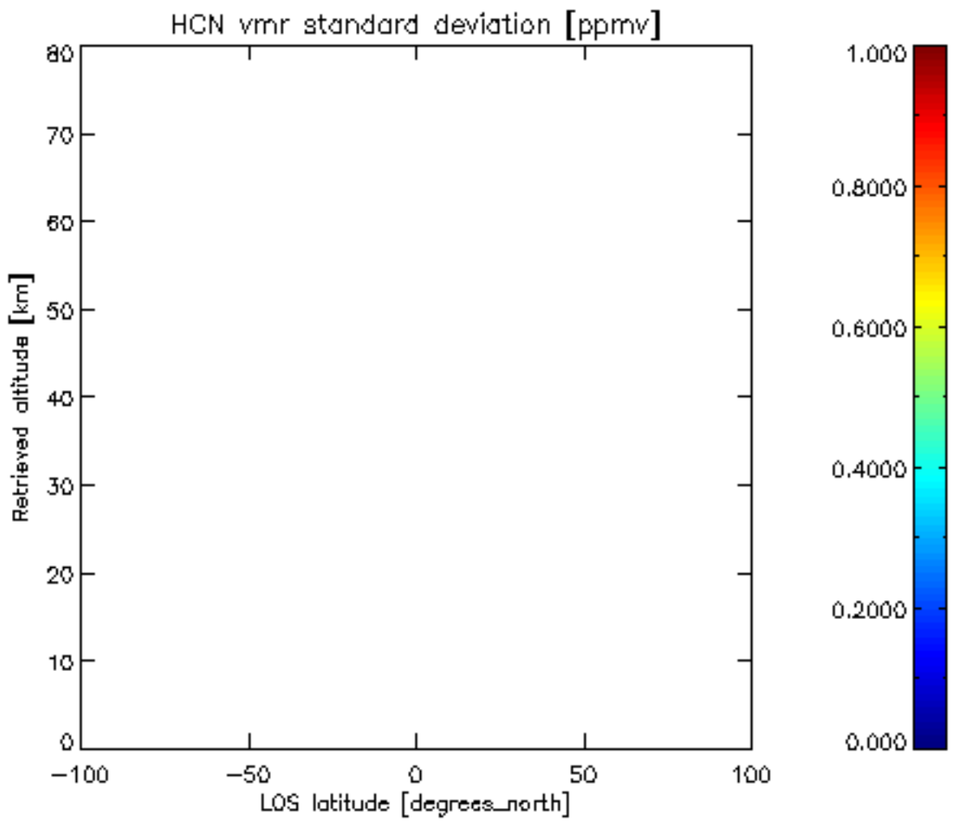

COF2 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

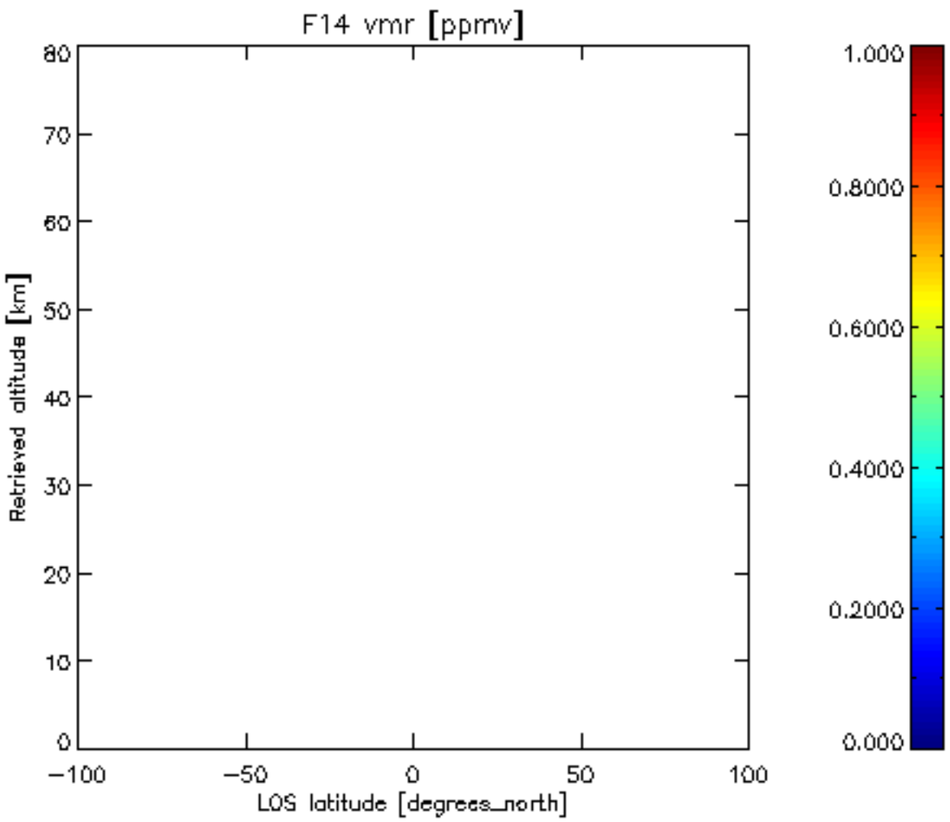

COF2 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

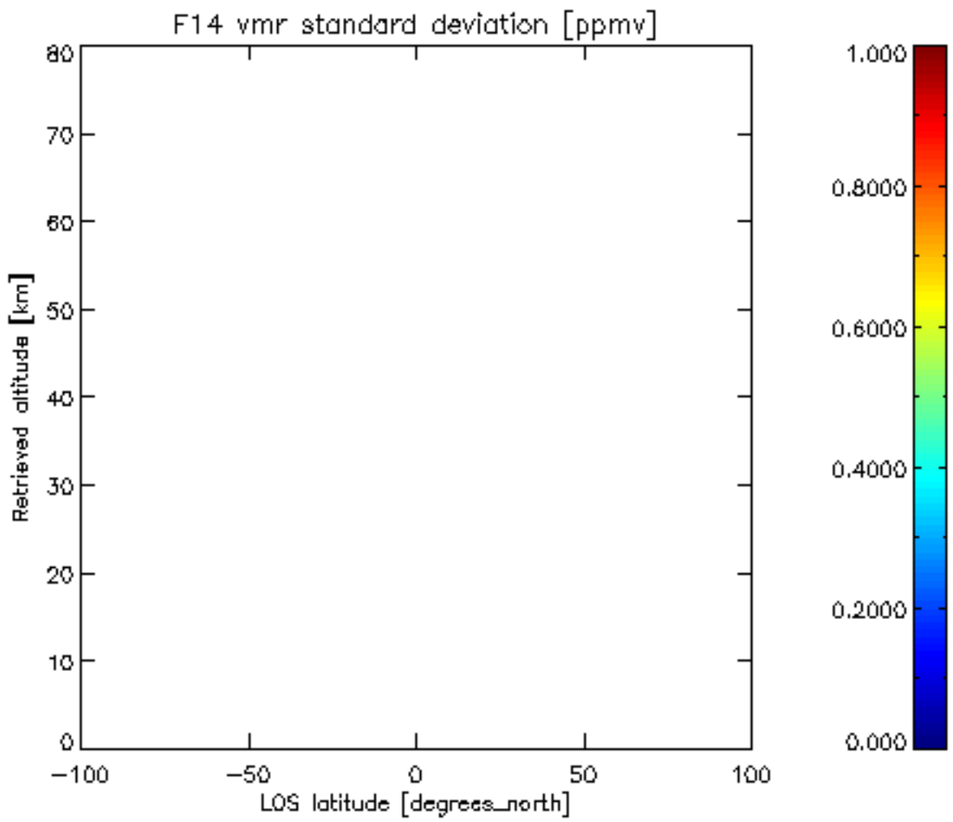

CCL4 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

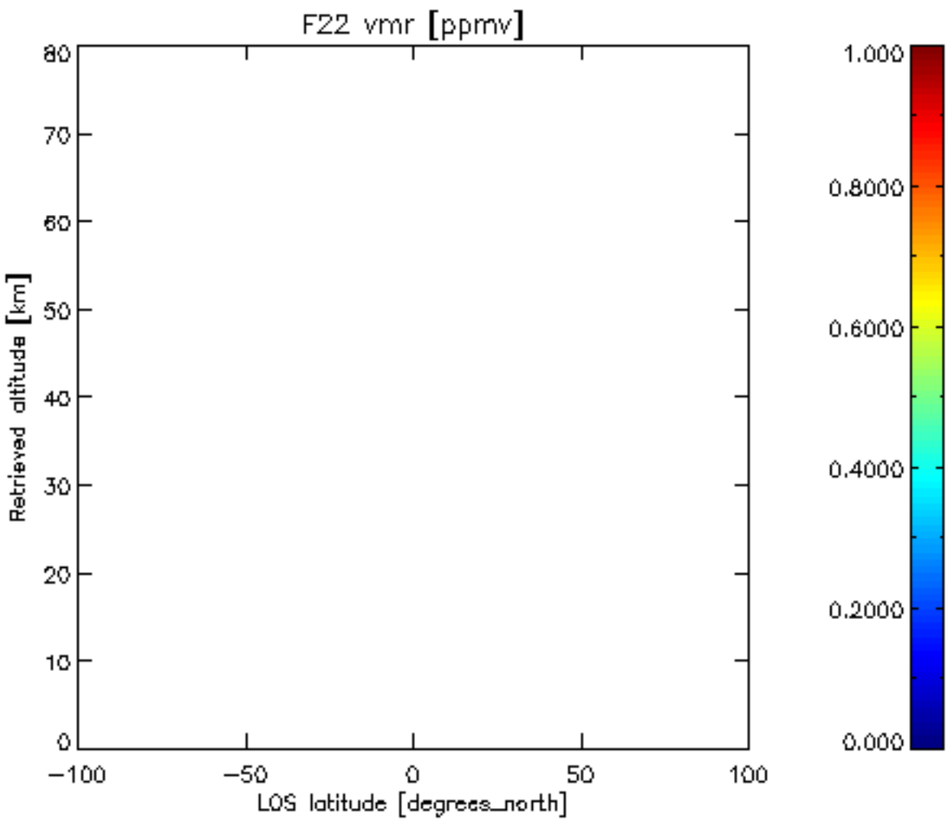

CCL4 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000

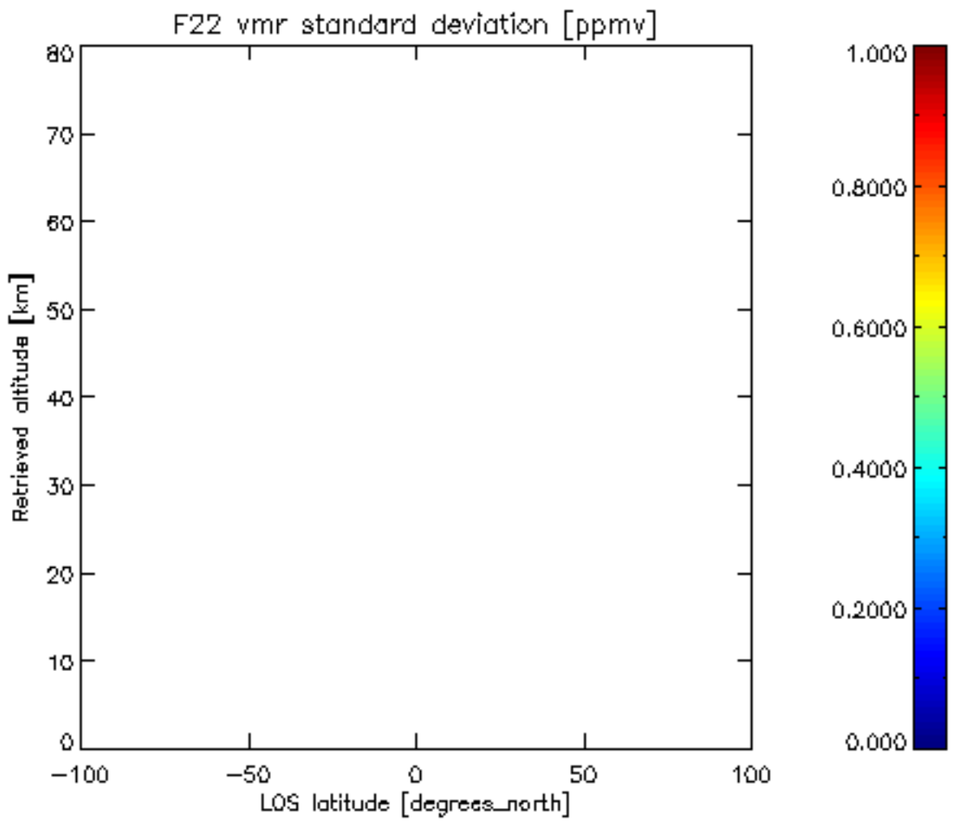

HCN vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000


HCN vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000


F14 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000


F14 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000


F22 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000


F22 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.000
0.8000
0.6000
0.4000
0.2000
0.000