2. MIPAS Daily Report for level 2 products summary report

(See **mipas_daily_report_level2_ML2PP_7_03_W_20050217.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	20APR2016 08:40:48
Data source version	ML2PP/7.03-W
Processing scope for products	17FEB2005 00:00:00 to 18FEB2005 00:00:00
Start time of first product within scope	17FEB2005 09:13:13
Stop time of last product within scope	17FEB2005 17:49:26
Total number of level 2 products	6
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__2PWDSI20050217_091313_000052602034_00437_15521_1000.N1	17FEB2005 09:13:13	17FEB2005 10:40:53	0	84/84	VMR_TERM_MACRO_MICRO[HCN/micro:1; F14/micro:1]
1	MIP_NL__2PWDSI20050217_104200_000060442034_00438_15522_1000.N1	17FEB2005 10:42:00	17FEB2005 12:22:44	0	80/80	
2	MIP_NL__2PWDSI20050217_122250_000059982034_00439_15523_1000.N1	17FEB2005 12:22:50	17FEB2005 14:02:48	0	93/93	VMR_TERM_MACRO_MICRO[HCN/macro:1; F14/macro:1]
3	MIP_NL__2PWDSI20050217_140254_000060302034_00440_15524_1000.N1	17FEB2005 14:02:54	17FEB2005 15:43:24	0	93/93	VMR_TERM_MACRO_MICRO[HCN/micro:1]
4	MIP_NL__2PWDSI20050217_154330_000060302034_00441_15525_1000.N1	17FEB2005 15:43:30	17FEB2005 17:24:00	0	93/93	VMR_TERM_MACRO_MICRO[N2O/micro:1; HCN/micro:1]
5	MIP_NL__2PWDSI20050217_172406_000015202034_00442_15526_1000.N1	17FEB2005 17:24:06	17FEB2005 17:49:26	0	21/21	VMR_TERM_MACRO_MICRO[NO2/micro:1]

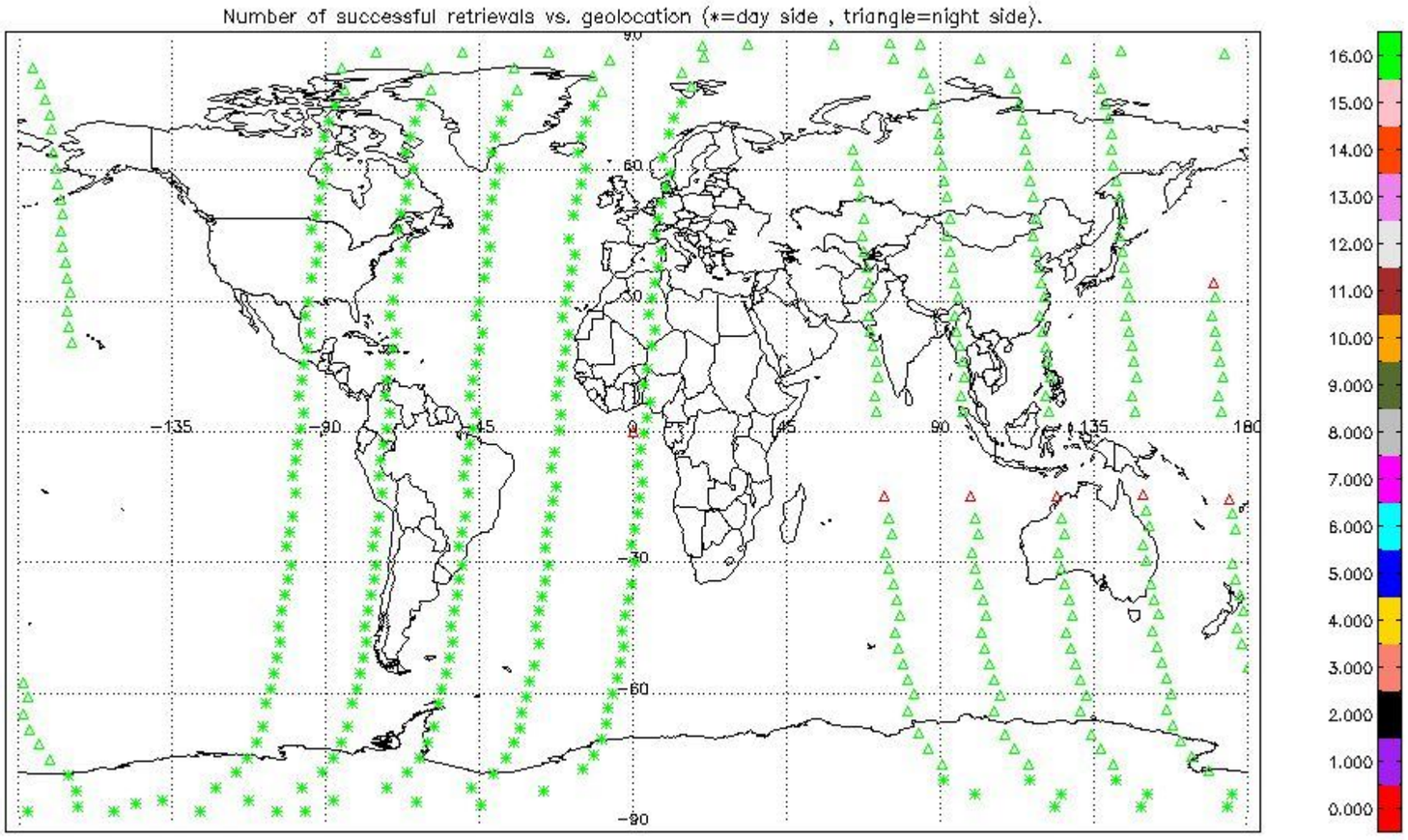
2.2 Processing performance indicators

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.

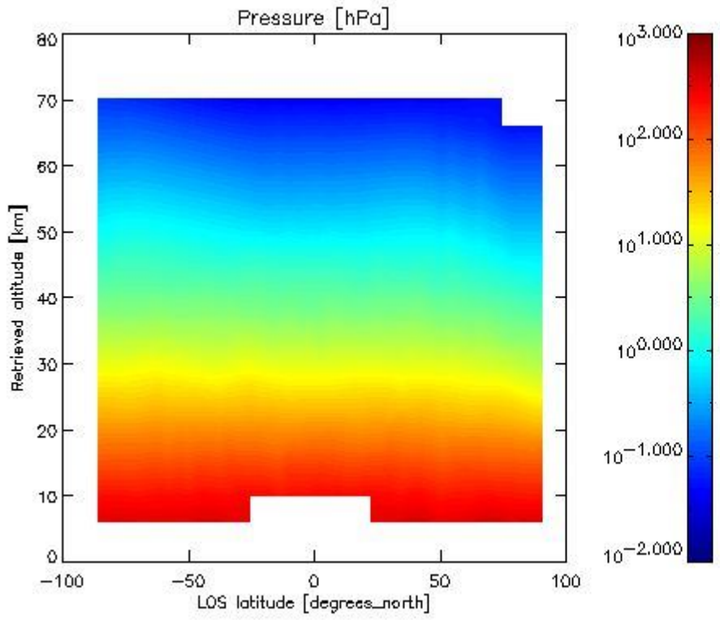
RETRIEVAL MDS	# scans processed	# Successful retrievals	%
PT	464	453	97.629
H2O	464	453	97.629
O3	464	453	97.629
HNO3	464	453	97.629

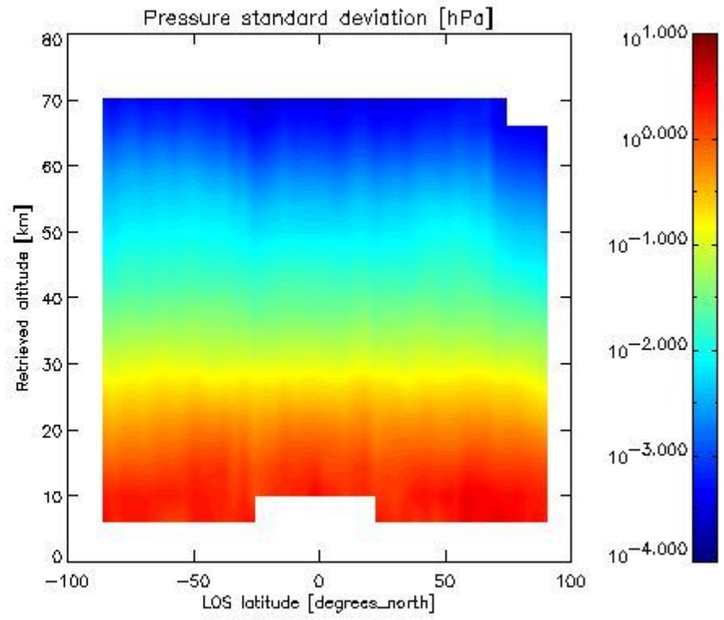
CH4	464	453	97.629
N2O	464	453	97.629
NO2	464	453	97.629
F11	464	453	97.629
CLNO	464	453	97.629
N2O5	464	453	97.629
F12	464	453	97.629
COF2	464	453	97.629
CCL4	464	453	97.629
HCN	464	453	97.629
F14	464	453	97.629
F22	464	453	97.629



2.2.2 Pressure overview

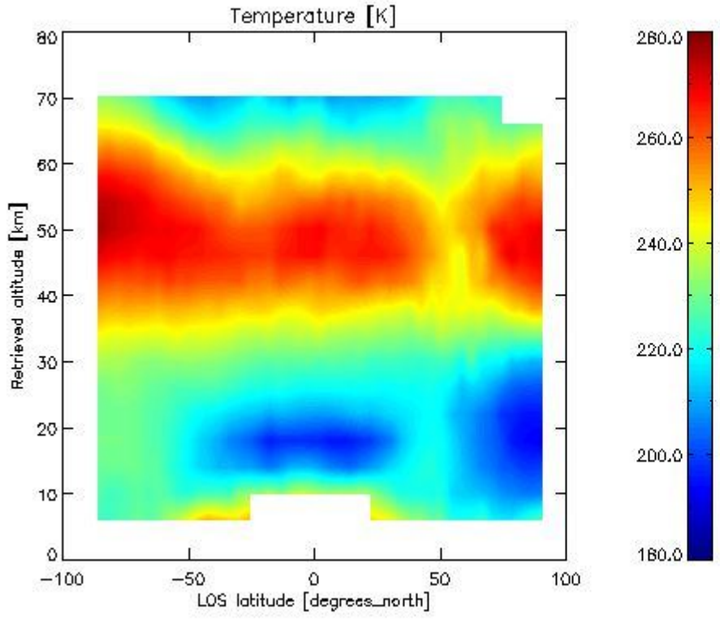
This section shows values (left) and error (right) for pressure after binning individual sweep values over retrieved altitude and tangent latitude.

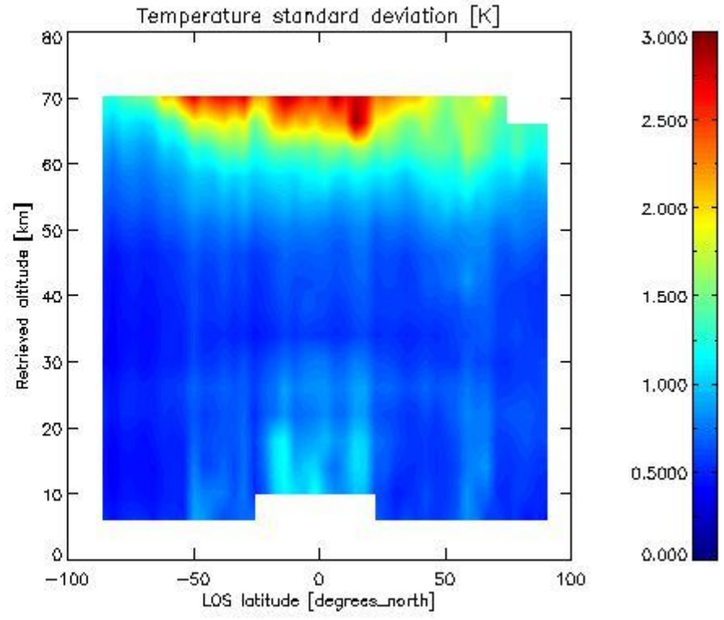




2.2.3 Temperature overview

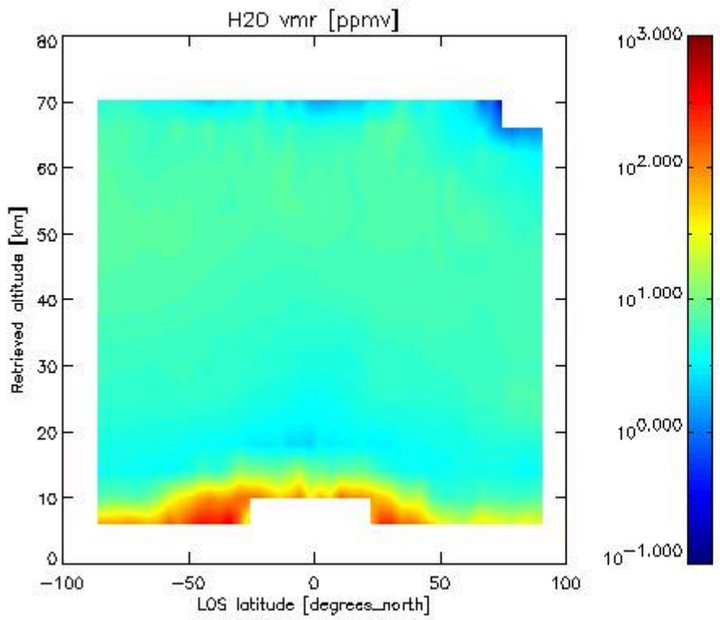
This section shows values (left) and error (right) for temperature after binning individual sweep values over retrieved altitude and tangent latitude.

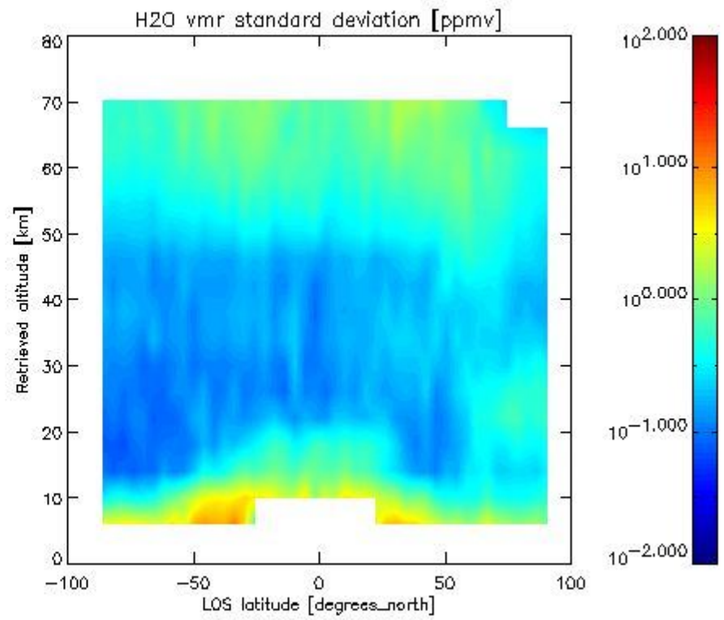




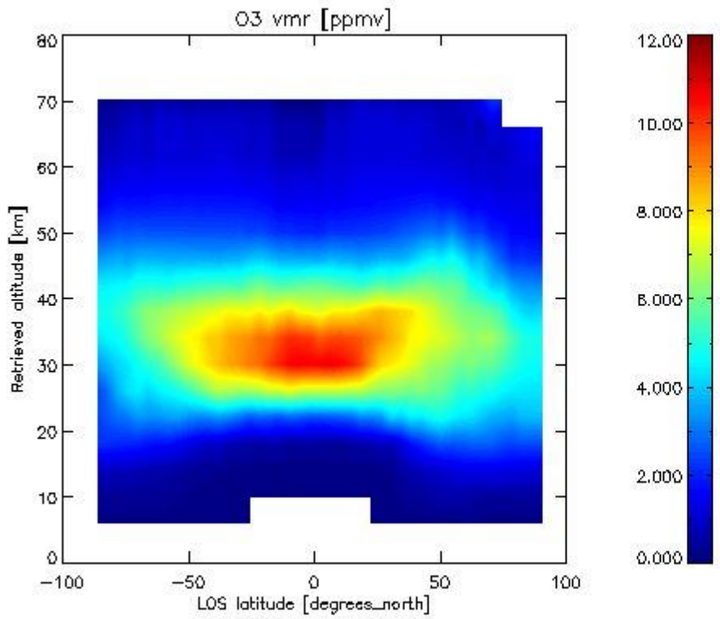
2.2.4 Species overview

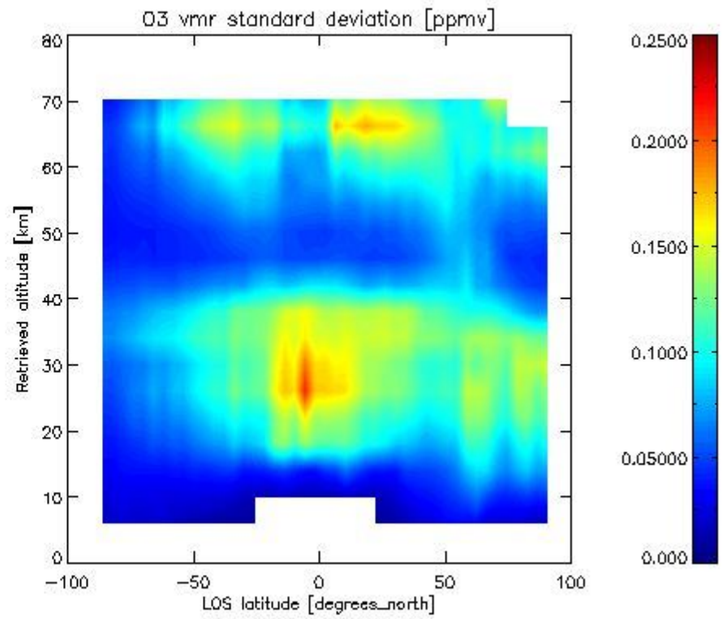
2.2.4.1 H2O overview This section shows values (left) and error (right) for H2O after binning individual sweep values over retrieved altitude and tangent latitude.



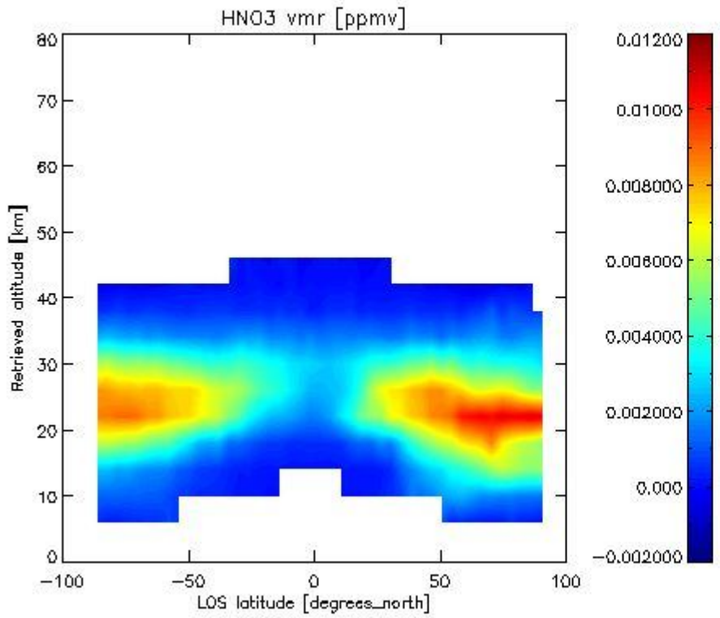


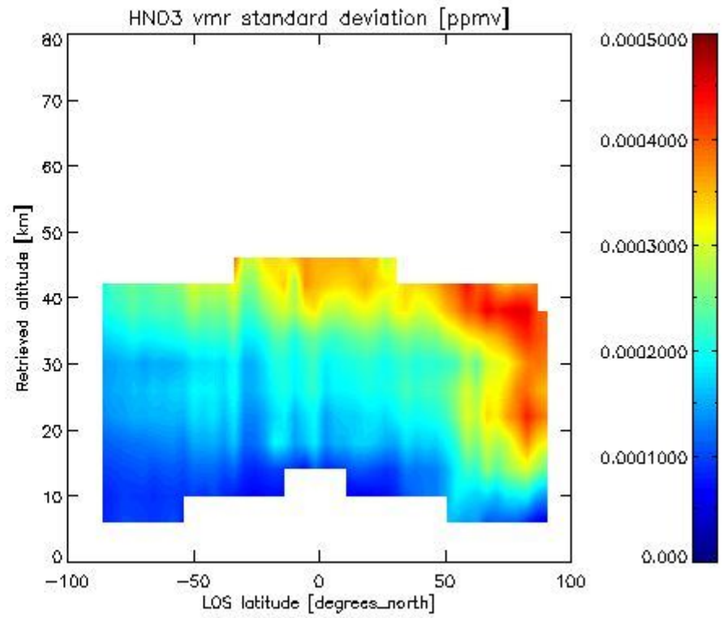
2.2.4.2 O3 overview **This section shows values (left) and error (right) for O3 after binning individual sweep values over retrieved altitude and tangent latitude.**



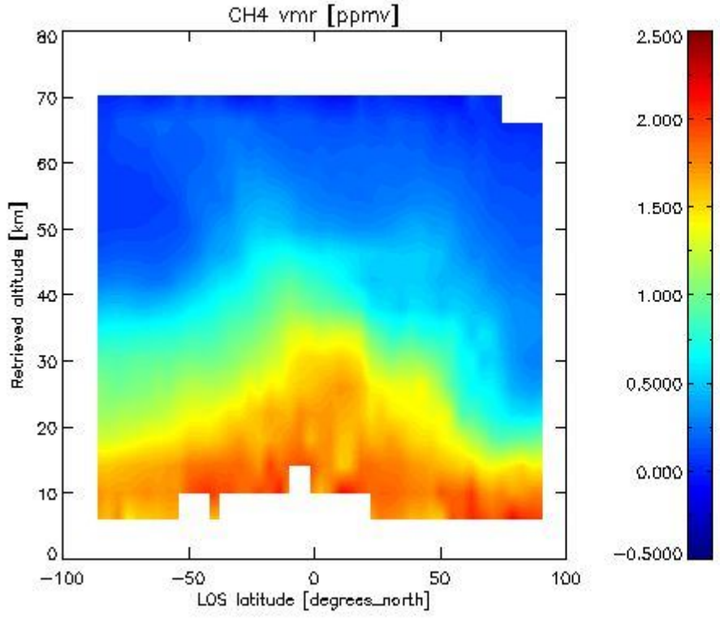


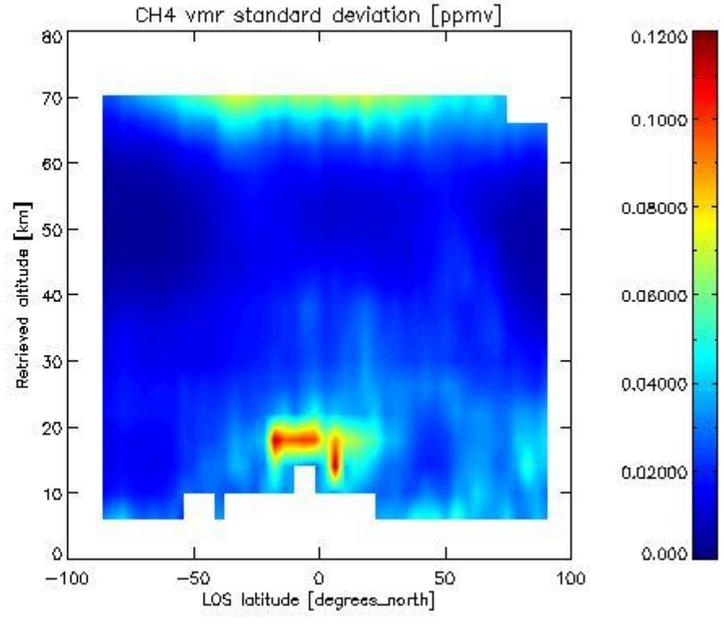
2.2.4.3 HNO3 overview **This section shows values (left) and error (right) for HNO3 after binning individual sweep values over retrieved altitude and tangent latitude.**



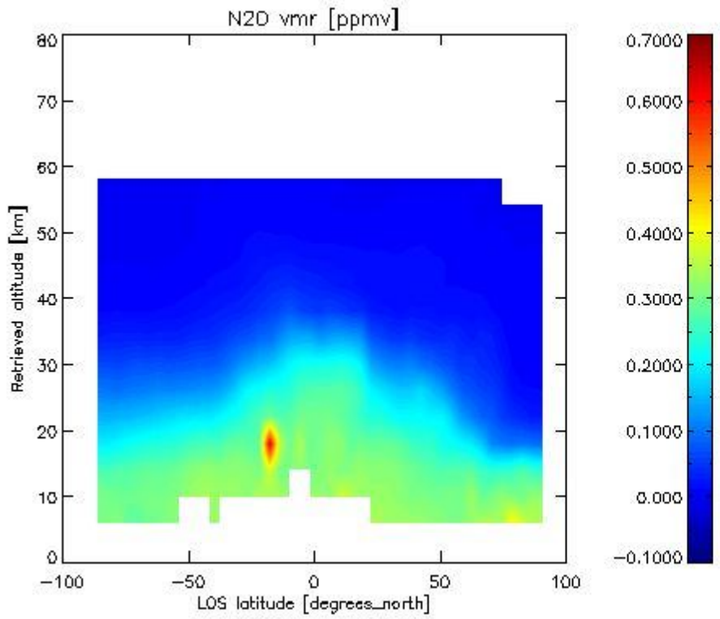


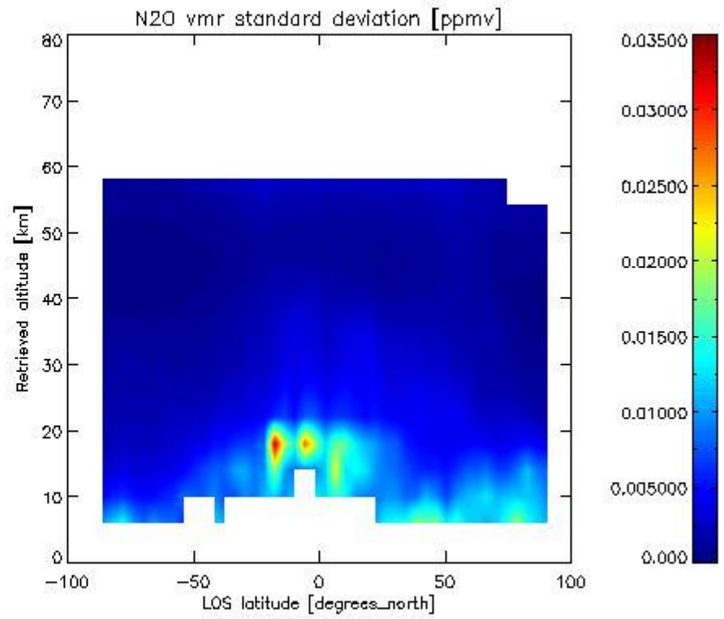
2.2.4.4 CH4 overview This section shows values (left) and error (right) for CH4 after binning individual sweep values over retrieved altitude and tangent latitude.



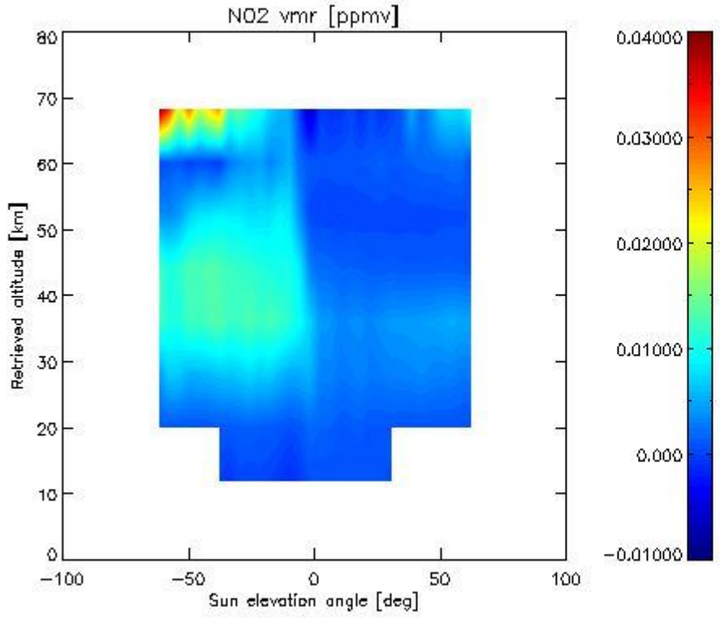


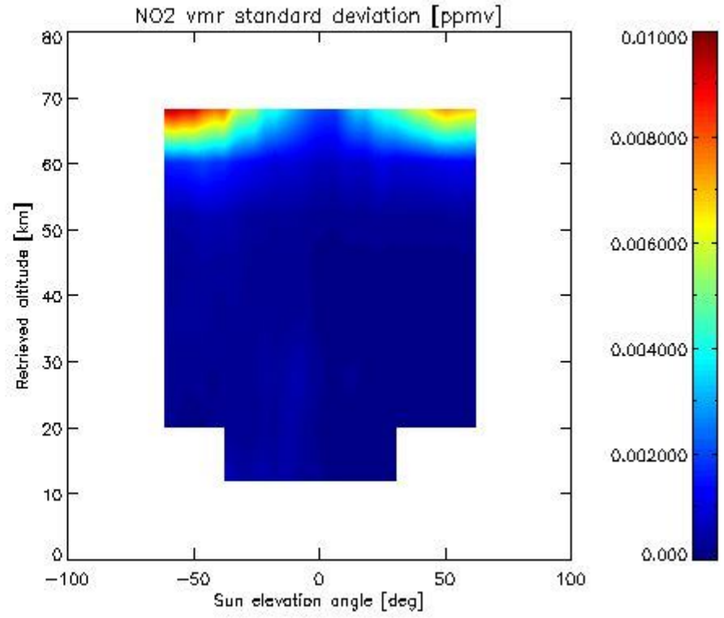
2.2.4.5 N2O overview This section shows values (left) and error (right) for N2O after binning individual sweep values over retrieved altitude and tangent latitude.



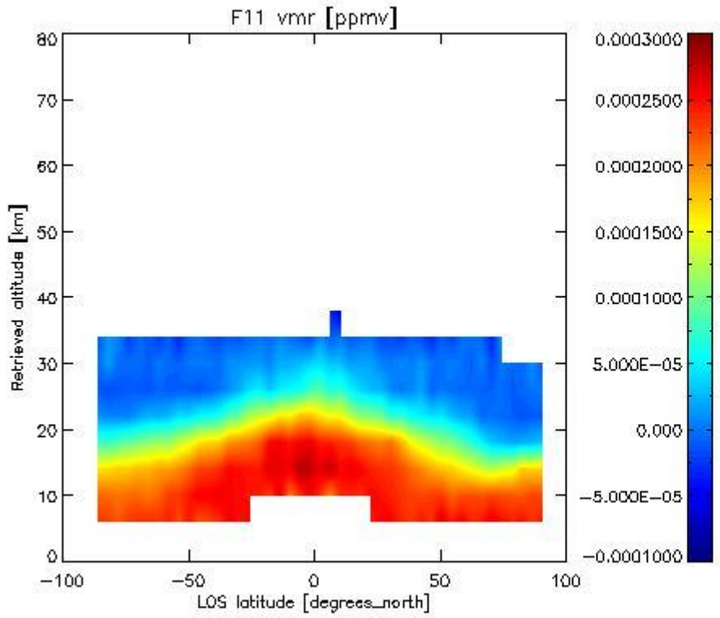


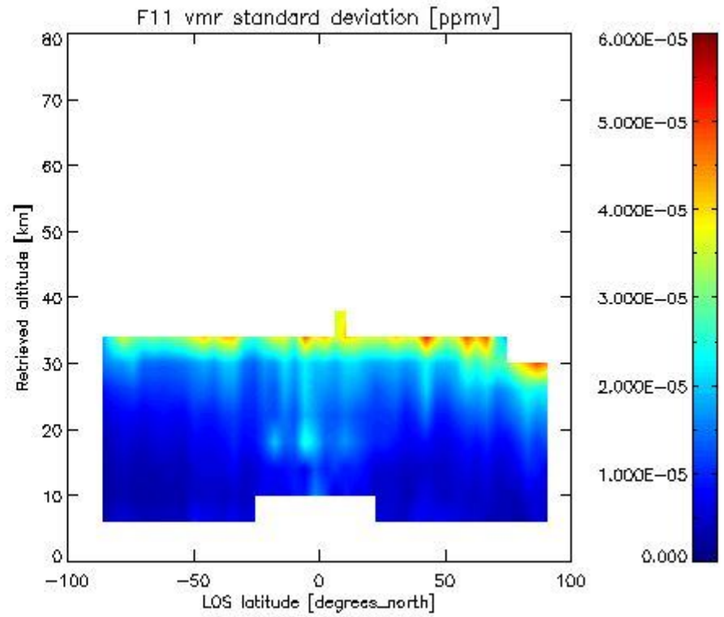
2.2.4.6 NO2 overview This section shows values (left) and error (right) for NO2 after binning individual sweep values over retrieved altitude and Sun Elevation Angle. Note that for NO2 the bin heights are 8 km.



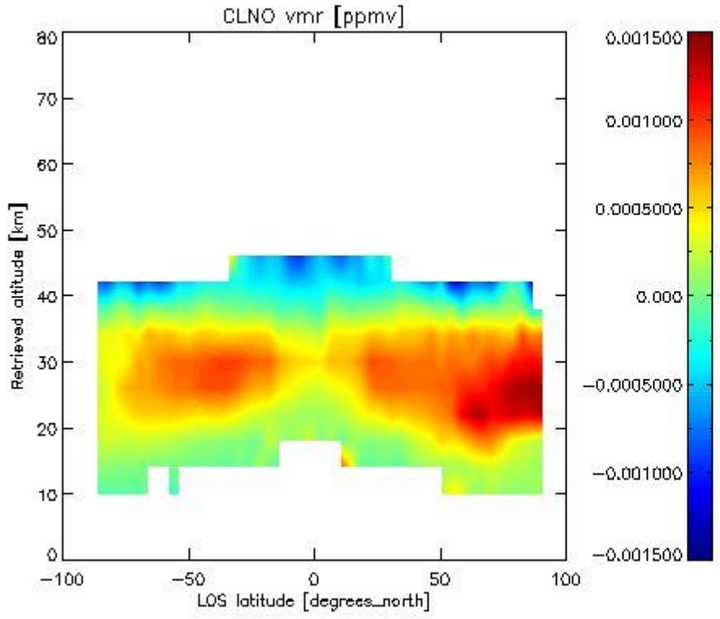


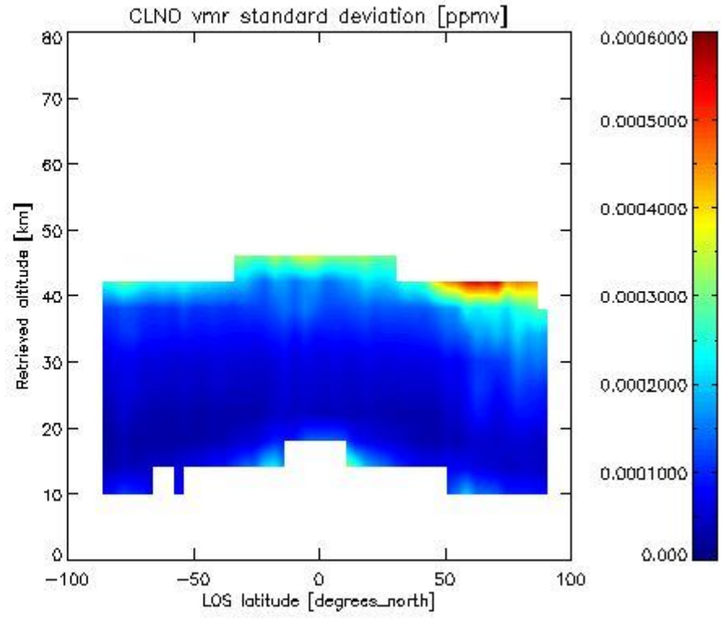
2.2.4.7 F11 overview This section shows values (left) and error (right) for F11 after binning individual sweep values over retrieved altitude and tangent latitude.

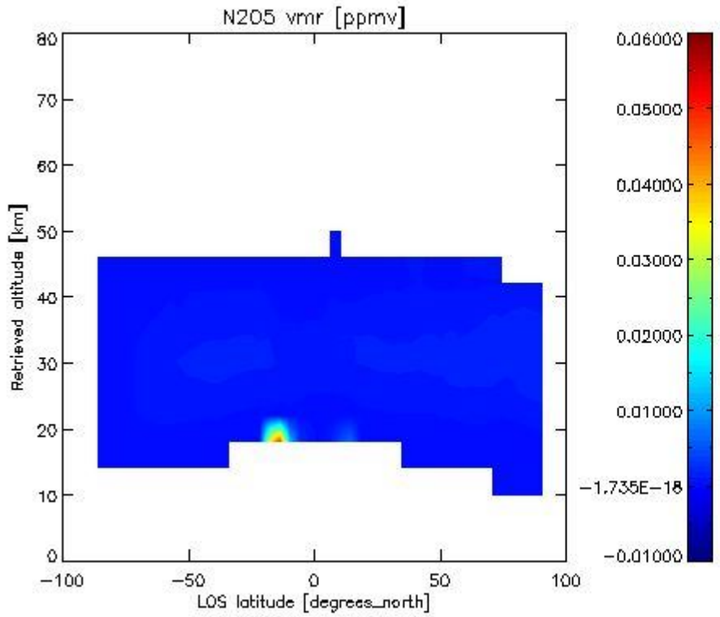


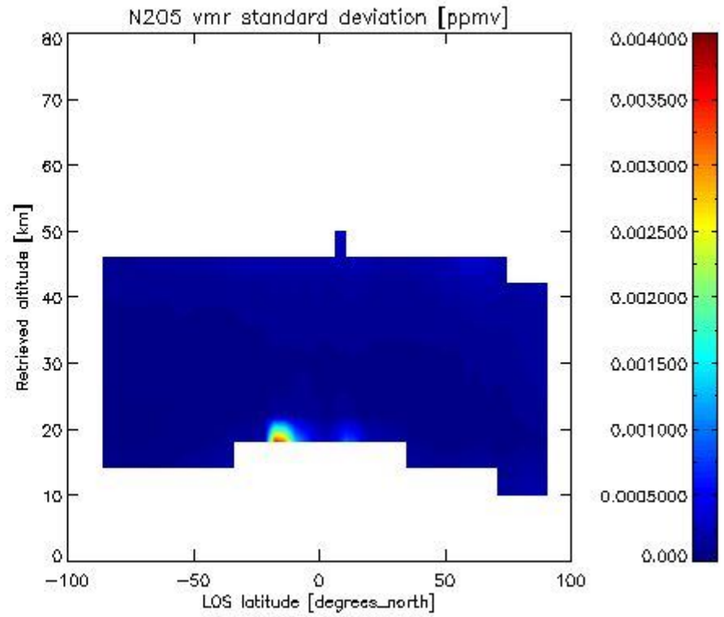


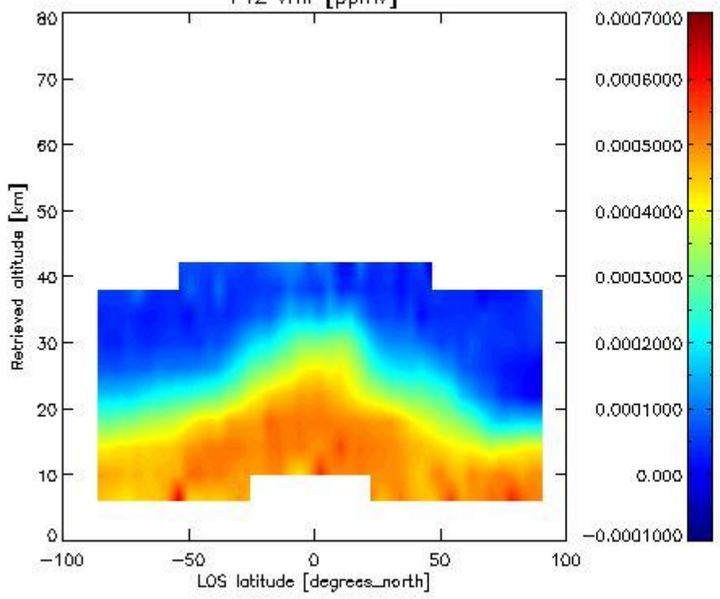
2.2.4.8 CLNO overview This section shows values (left) and error (right) for CLNO after binning individual sweep values over retrieved altitude and tangent latitude.

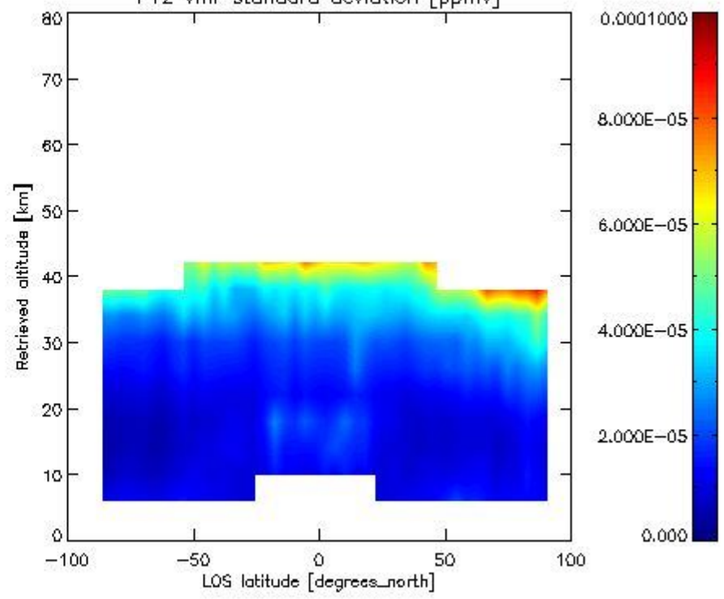


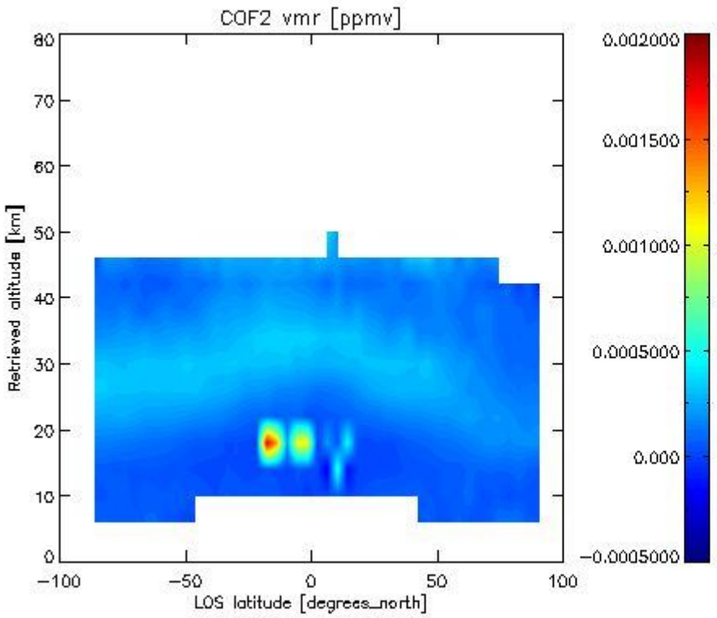


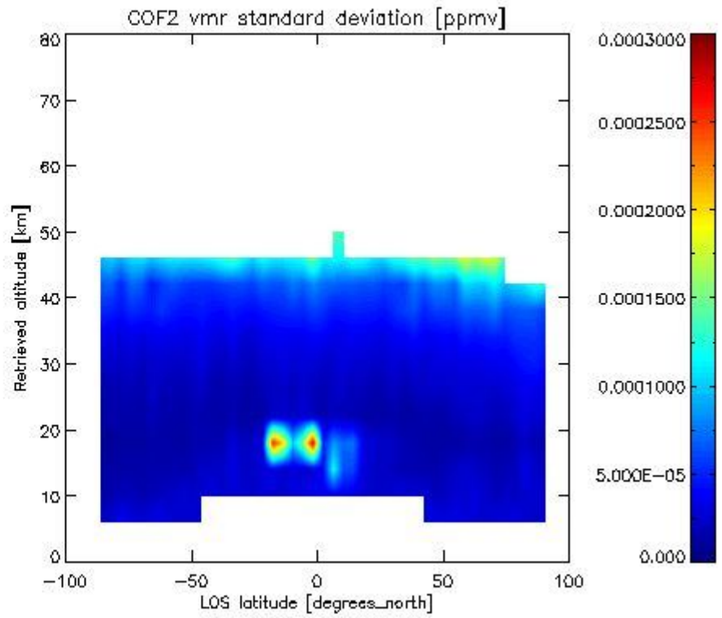

N2O5 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
0.06000
0.05000
0.04000
0.03000
0.02000
0.01000
−1.735E−18
−0.01000

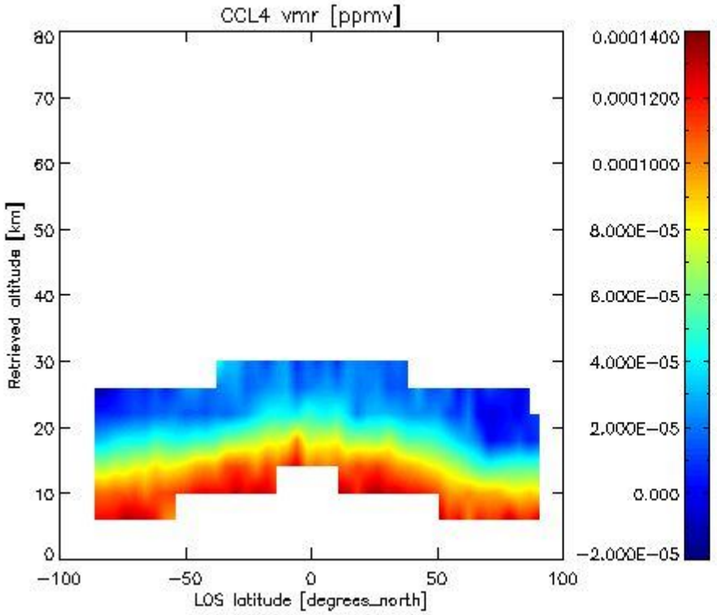

N2O5 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
0.004000
0.003500
0.003000
0.002500
0.002000
0.001500
0.001000
0.0005000
0.000

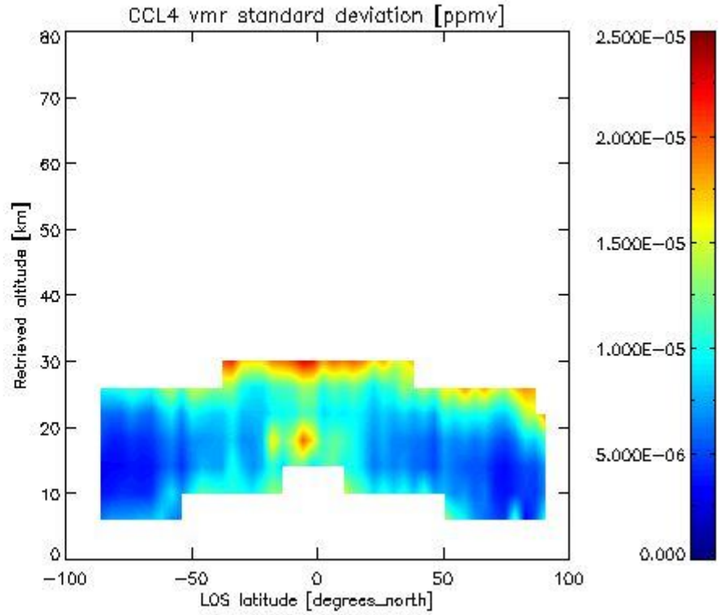

F12 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
0.0007000
0.0006000
0.0005000
0.0004000
0.0003000
0.0002000
0.0001000
0.000
−0.0001000

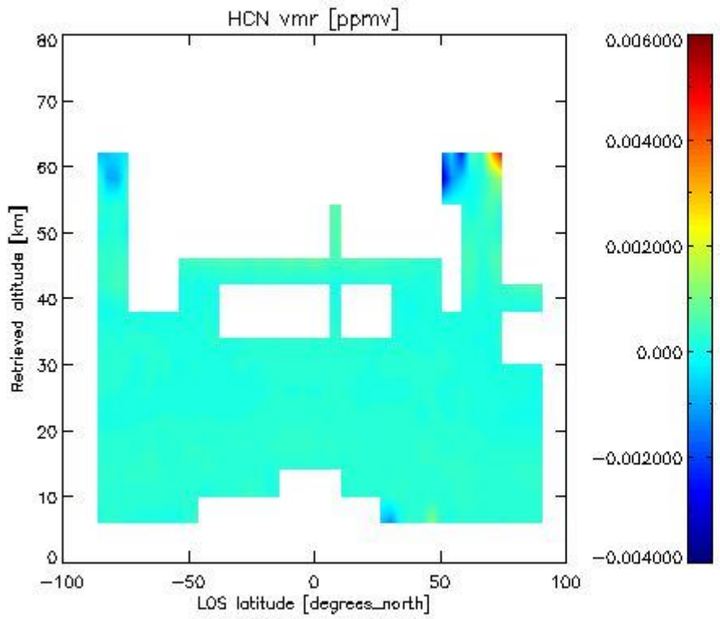

F12 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
0.0001000
8.000E−05
6.000E−05
4.000E−05
2.000E−05
0.000

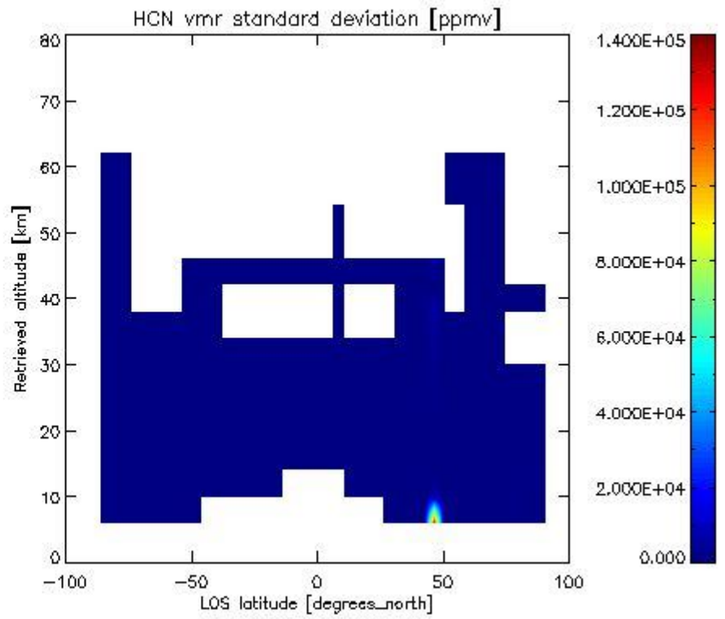

COF2 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
0.002000
0.001500
0.001000
0.0005000
0.000
−0.0005000

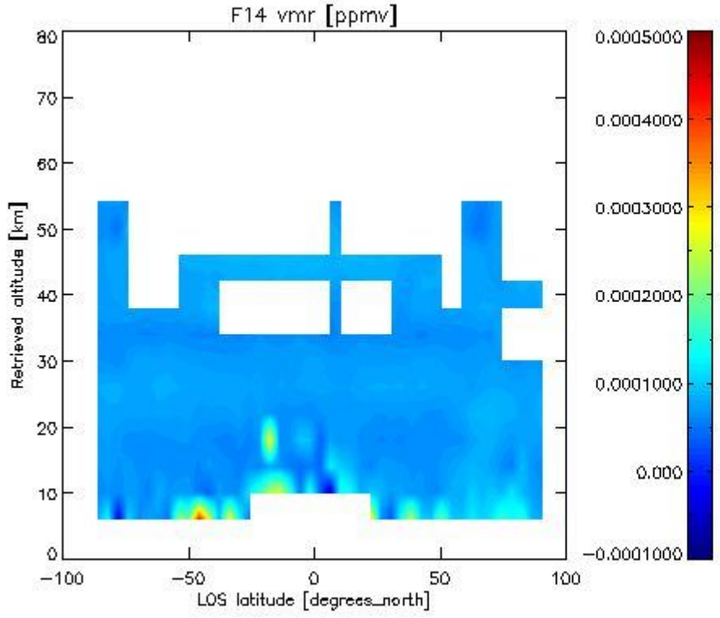

COF2 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
0.0003000
0.0002500
0.0002000
0.0001500
0.0001000
5.000E−05
0.000

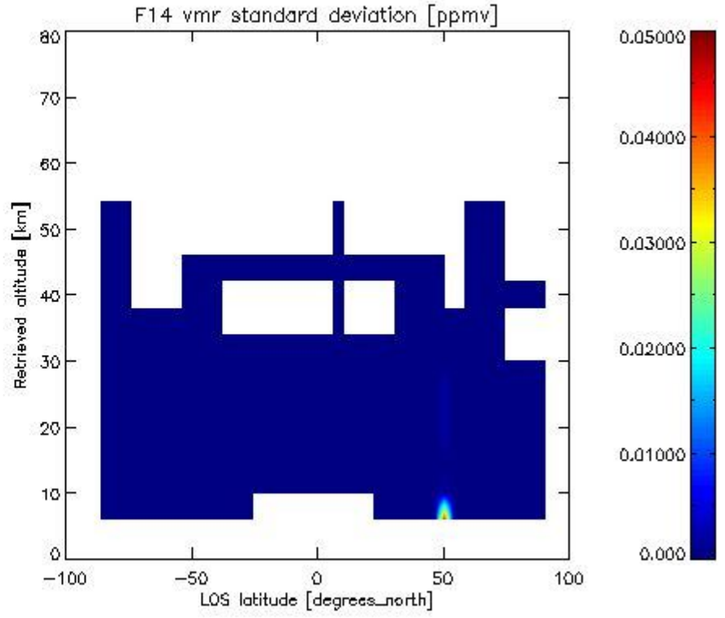

CCL4 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
0.0001400
0.0001200
0.0001000
8.000E−05
6.000E−05
4.000E−05
2.000E−05
0.000
−2.000E−05

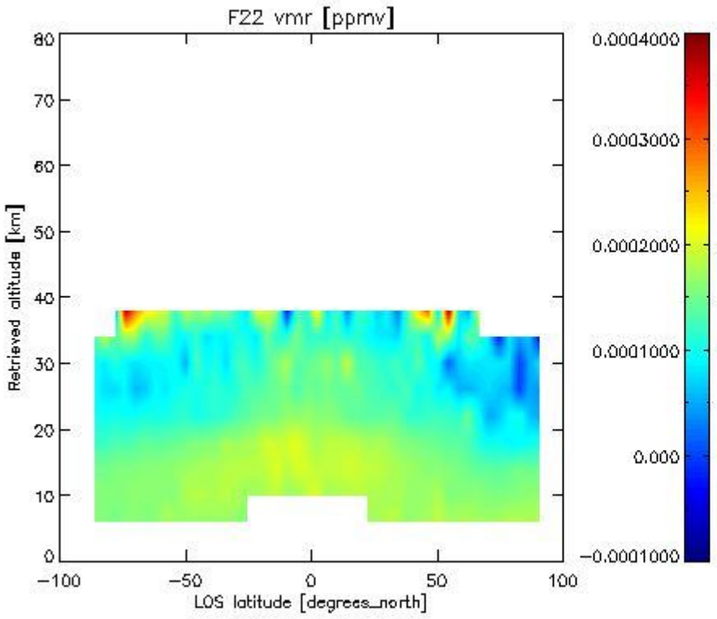

CCL4 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
2.500E−05
2.000E−05
1.500E−05
1.000E−05
5.000E−06
0.000

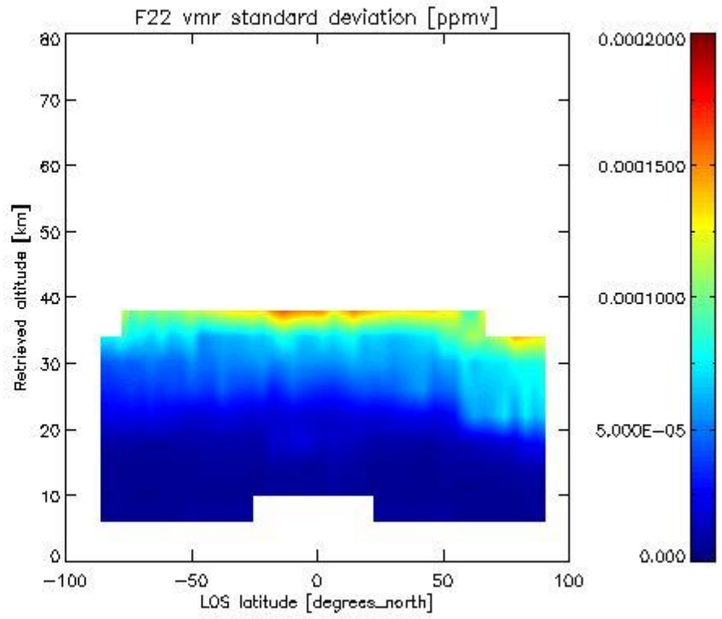

HCN vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
0.006000
0.004000
0.002000
0.000
−0.002000
−0.004000

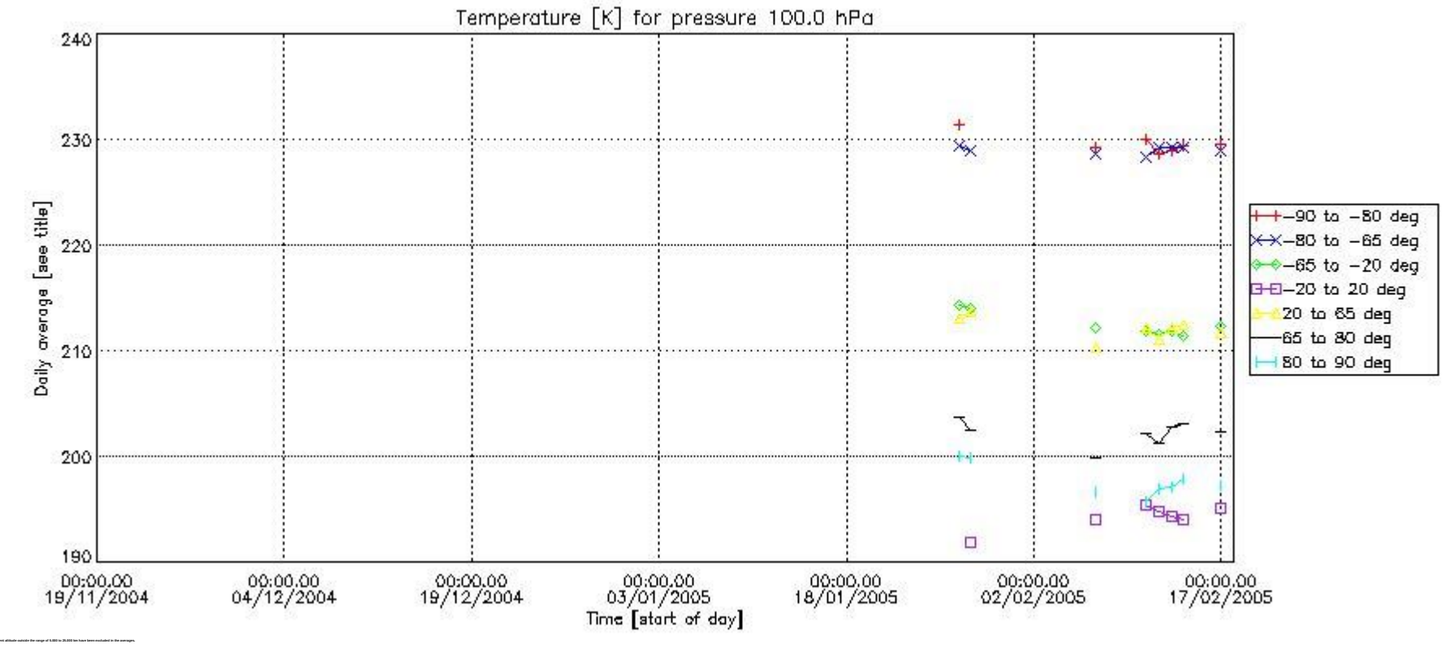

HCN vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
1.400E+05
1.200E+05
1.000E+05
8.000E+04
6.000E+04
4.000E+04
2.000E+04
0.000

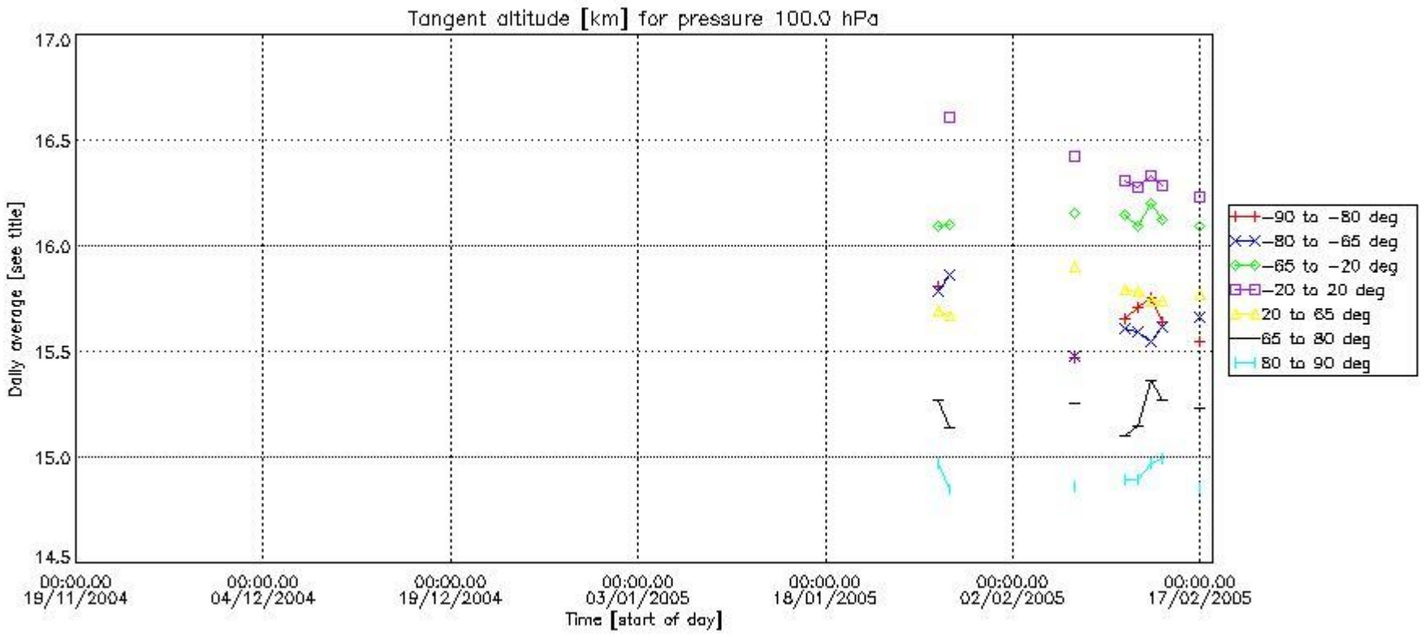

F14 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
0.0005000
0.0004000
0.0003000
0.0002000
0.0001000
0.000
−0.0001000


F14 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
0.05000
0.04000
0.03000
0.02000
0.01000
0.000

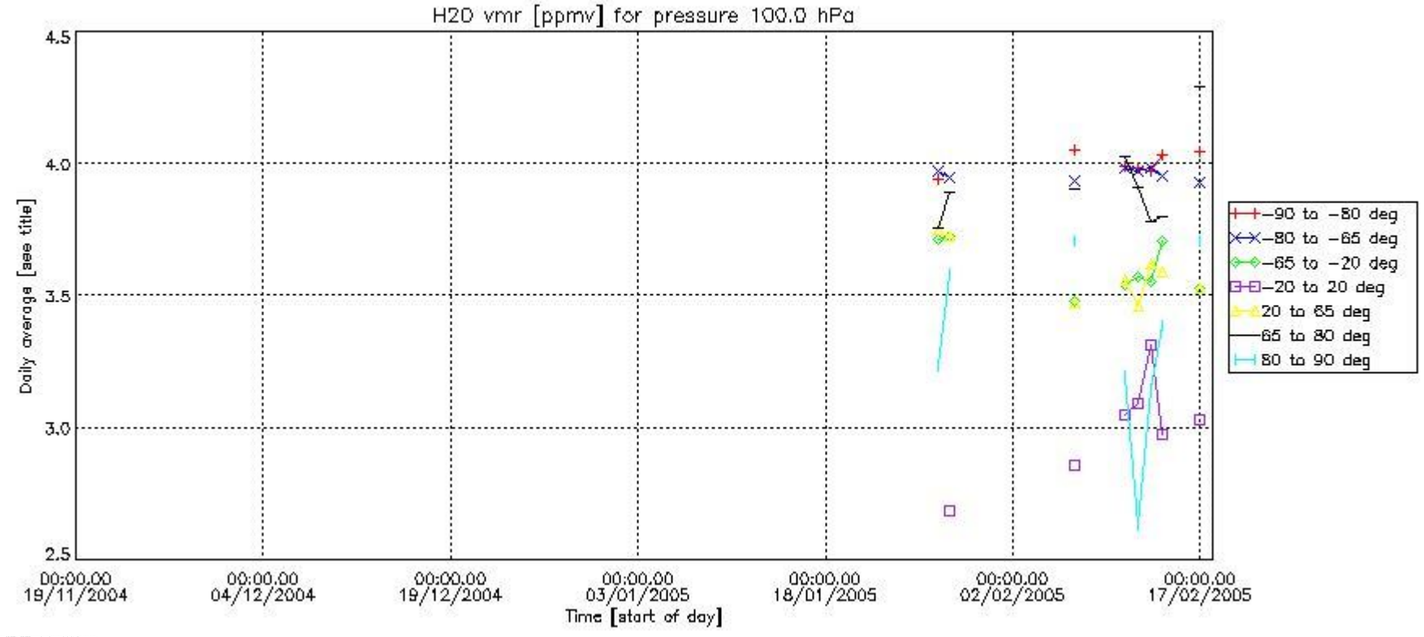

F22 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
0.0004000
0.0003000
0.0002000
0.0001000
0.000
−0.0001000

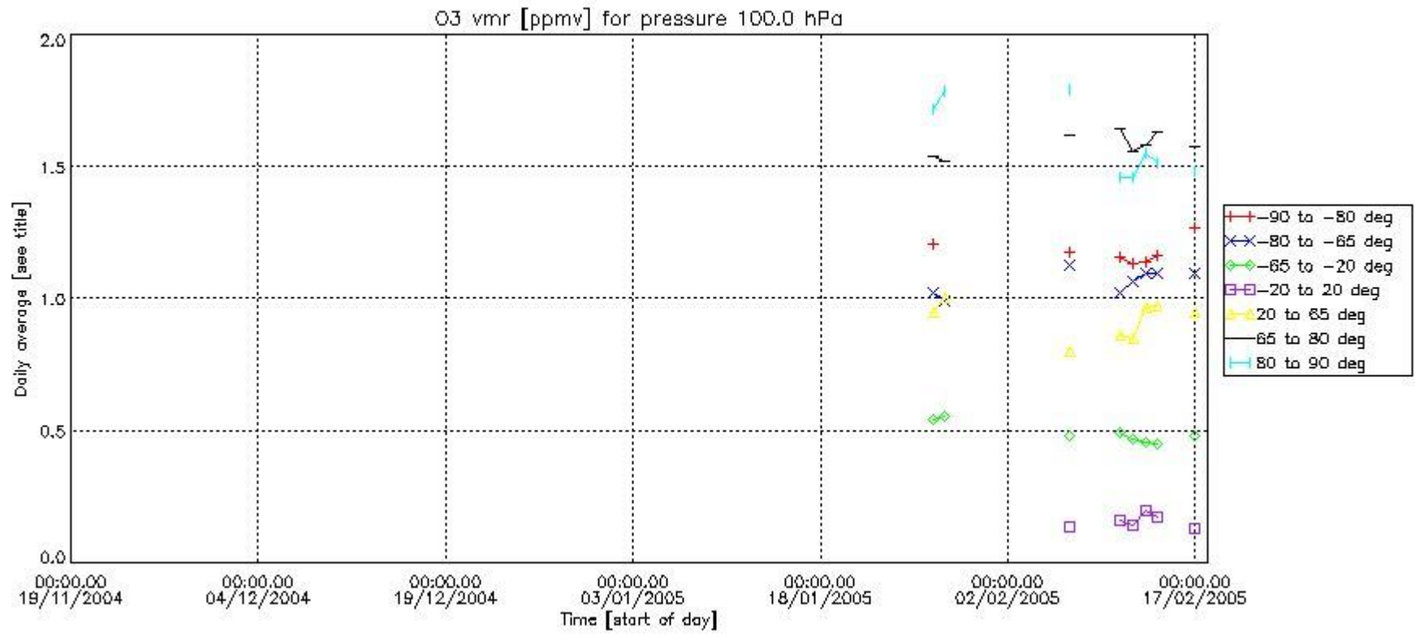

F22 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
0.0002000
0.0001500
0.0001000
5.000E−05
0.000


Temperature [K] for pressure 100.0 hPa
Daily average [see title]
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

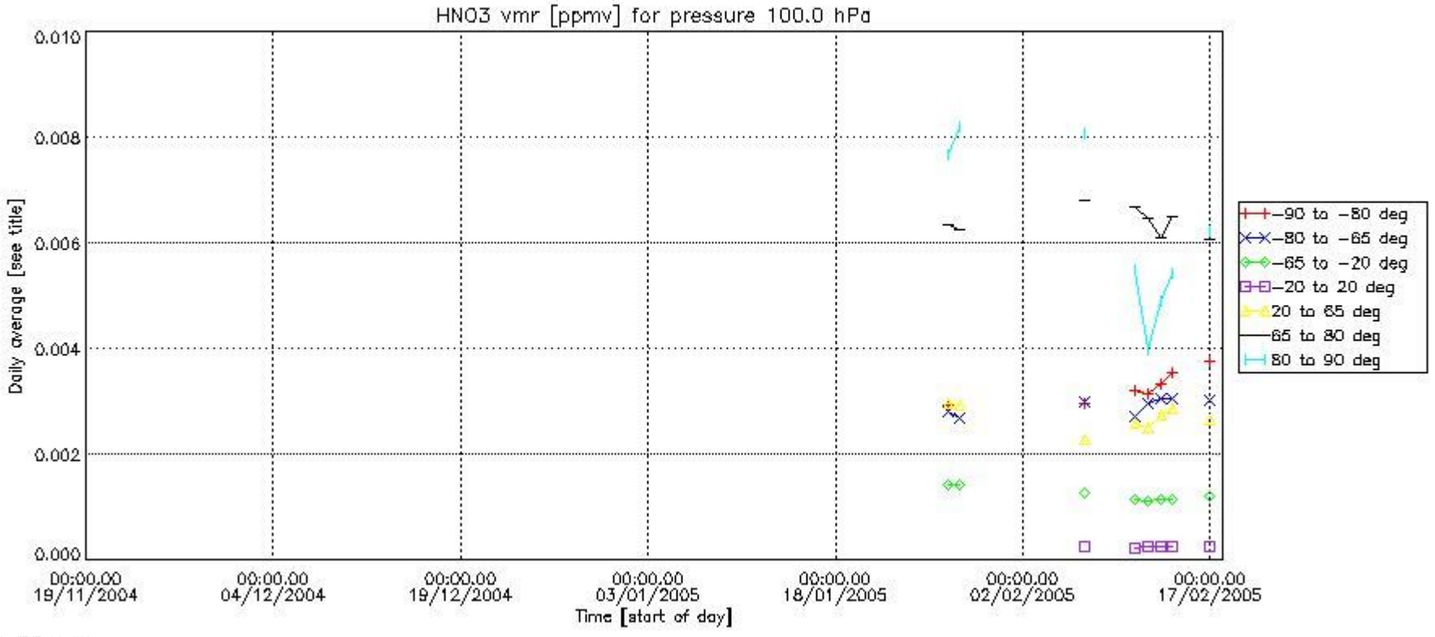


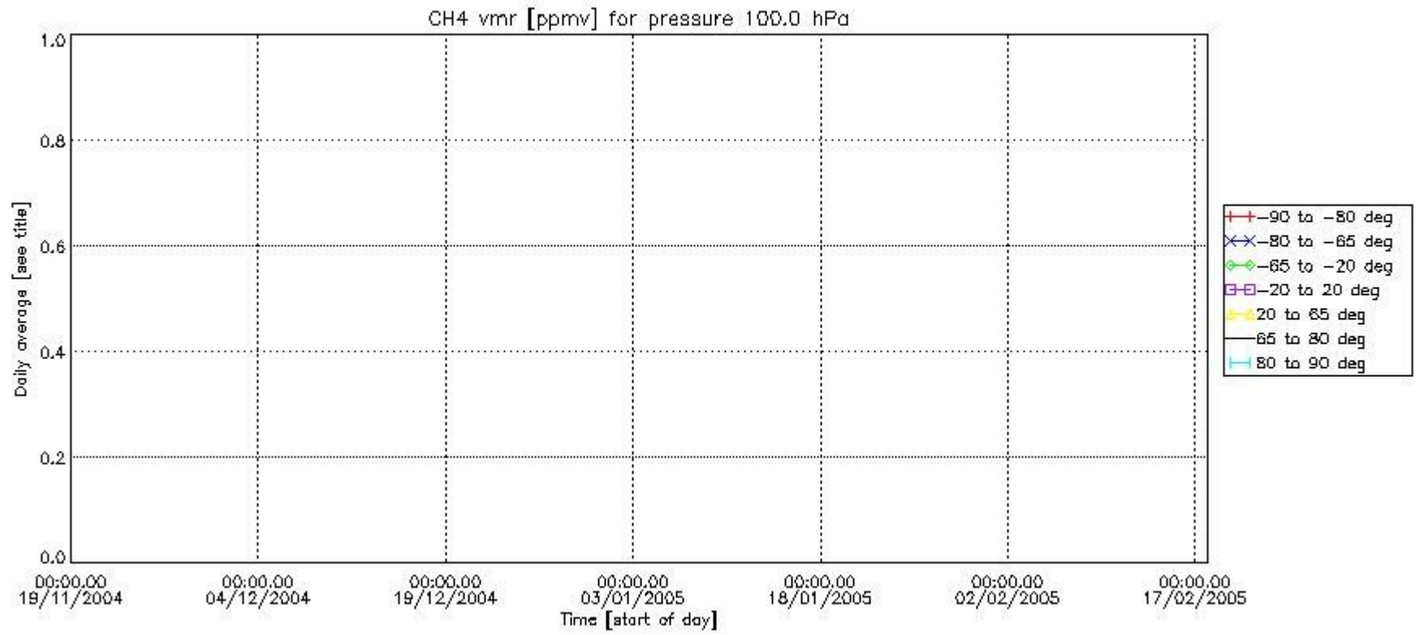
Note: in the following plot, values for H2O outside the range of 0.001 to 100,000 ppmv have been excluded in the averages.



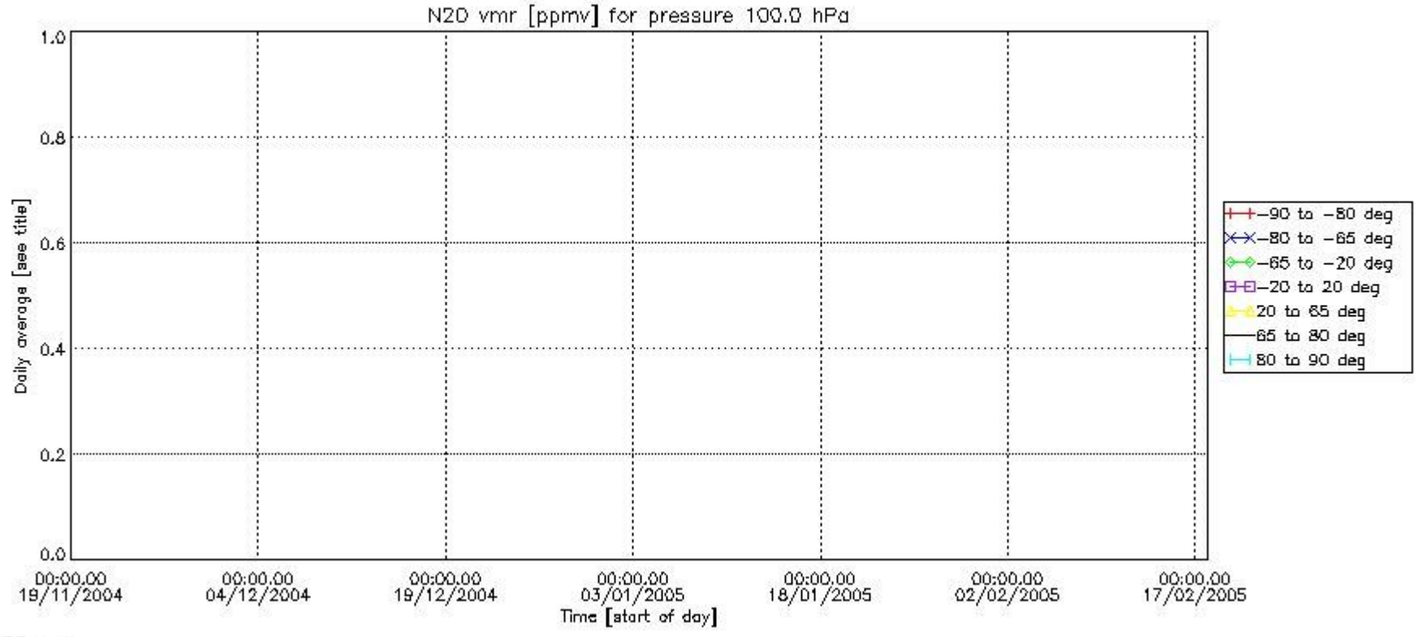


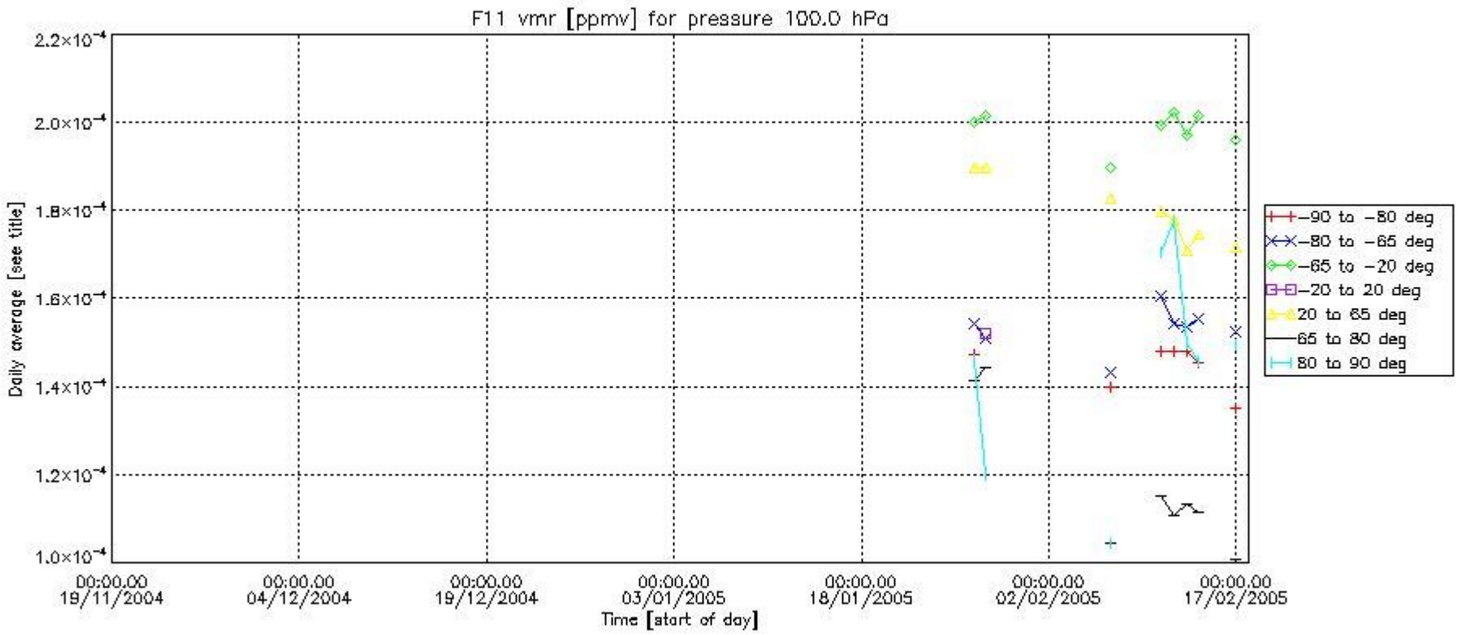
Note: in the following plot, values for HNO3 outside the range of 0.000 to 0.010 ppmv have been excluded in the averages.

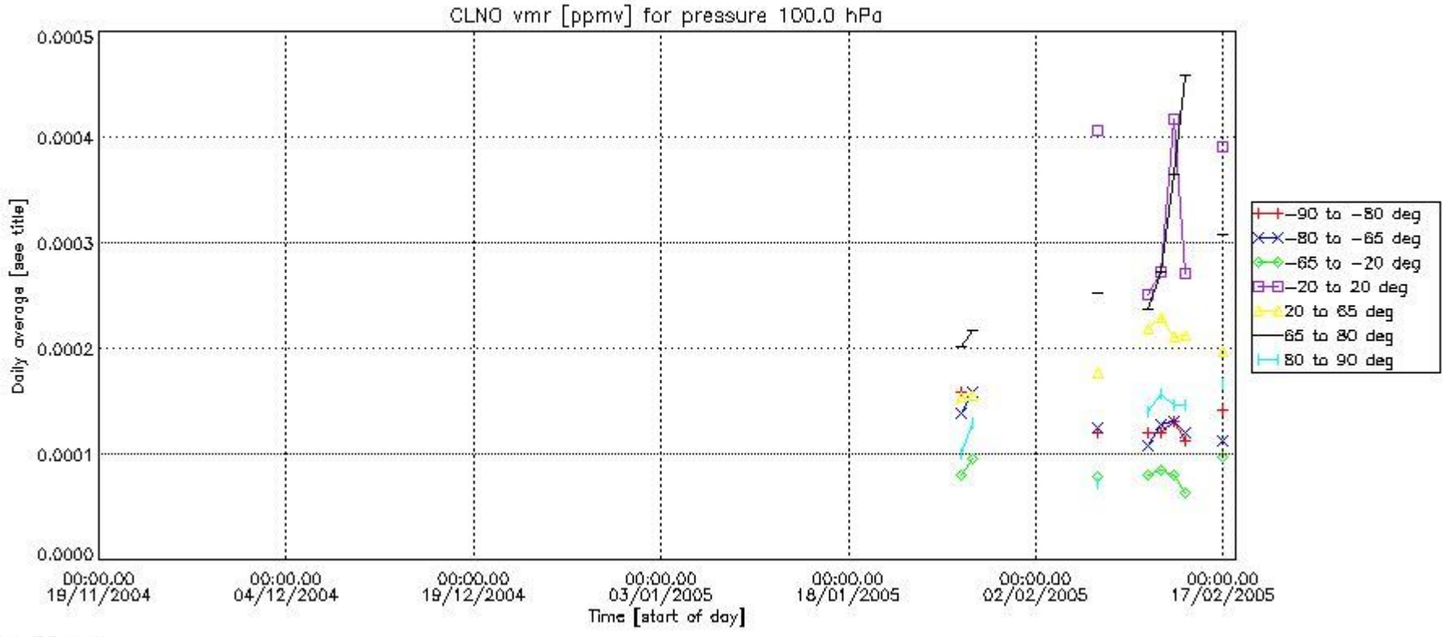


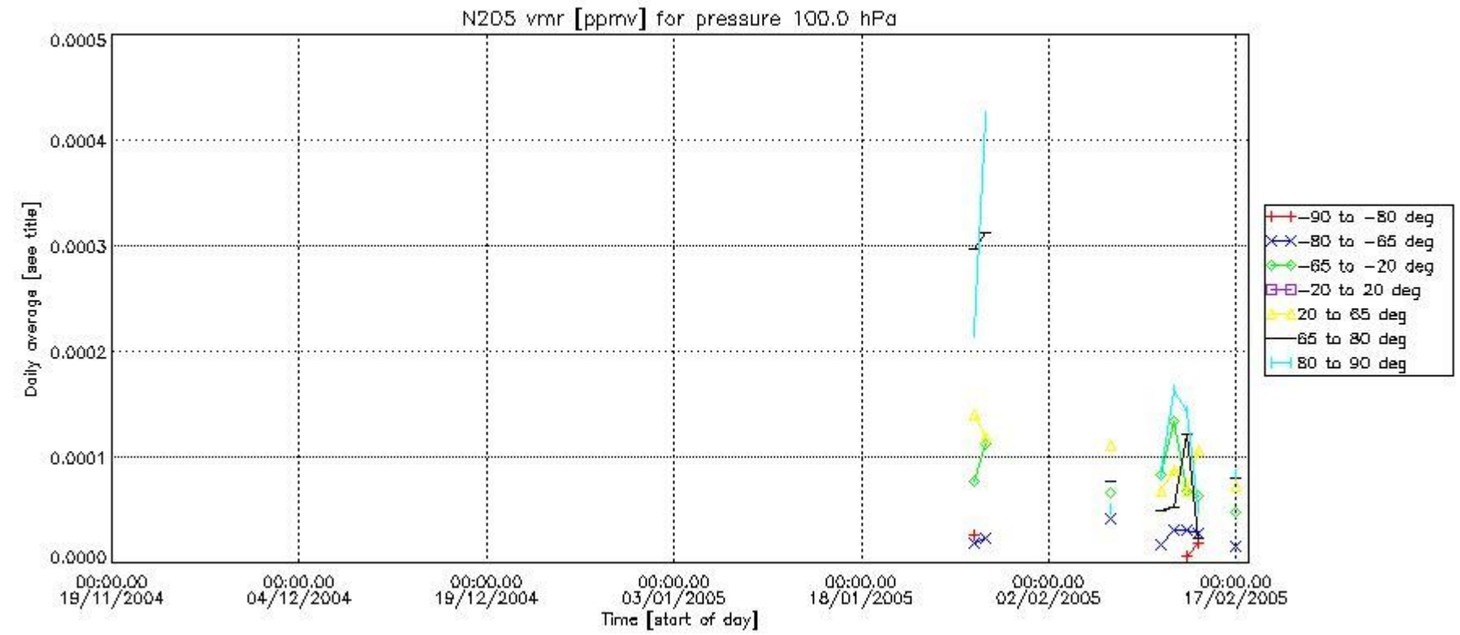


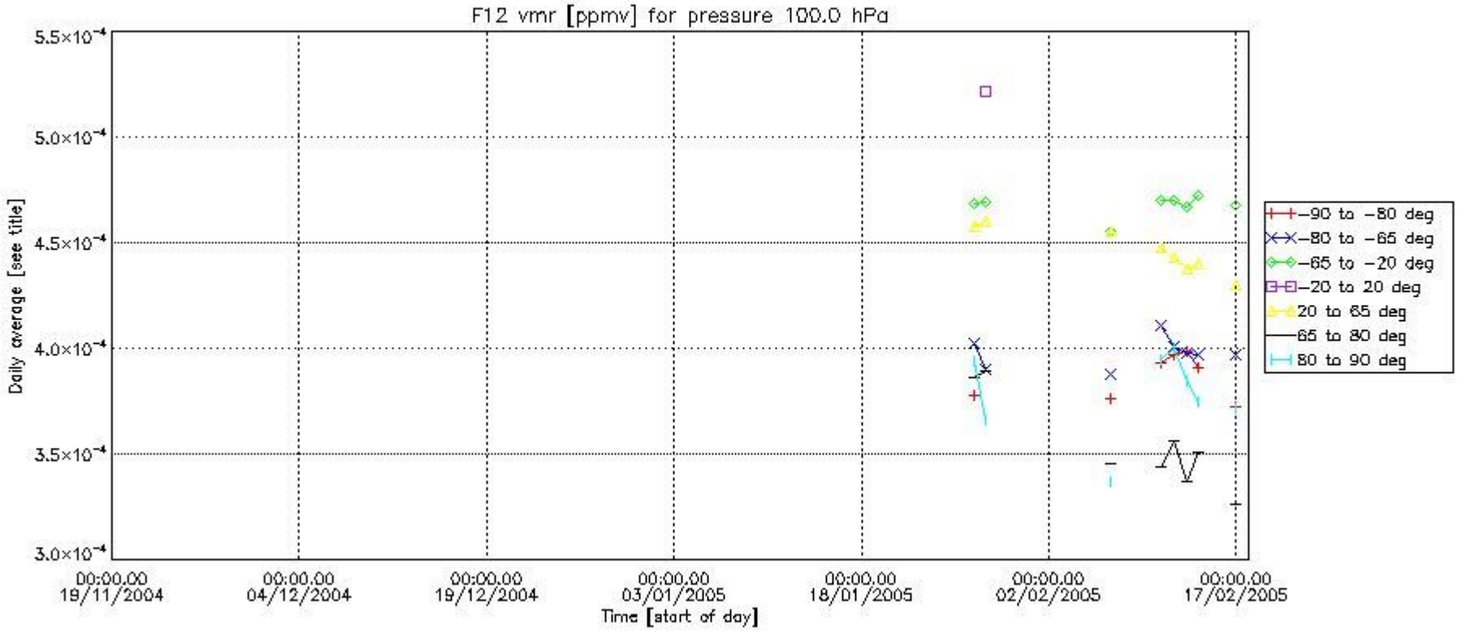
Note: in the following plot, values for N2O outside the range of 0.000 to 1.000 ppmv have been excluded in the averages.

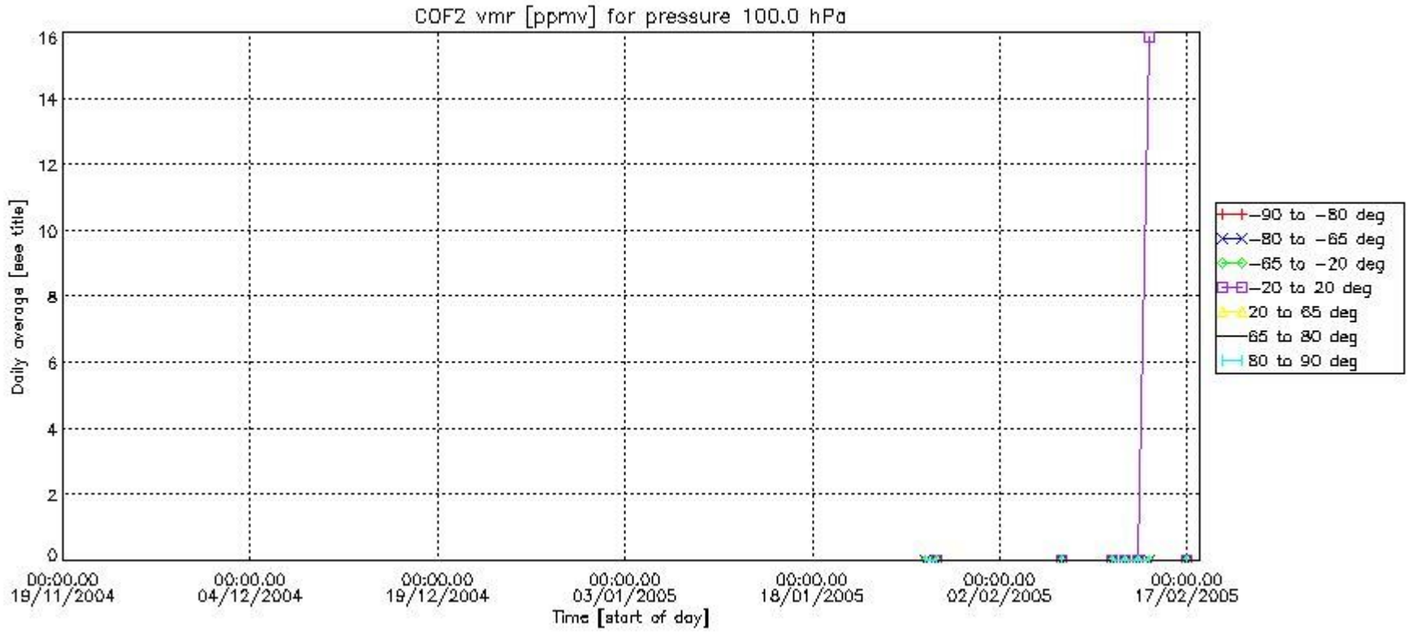


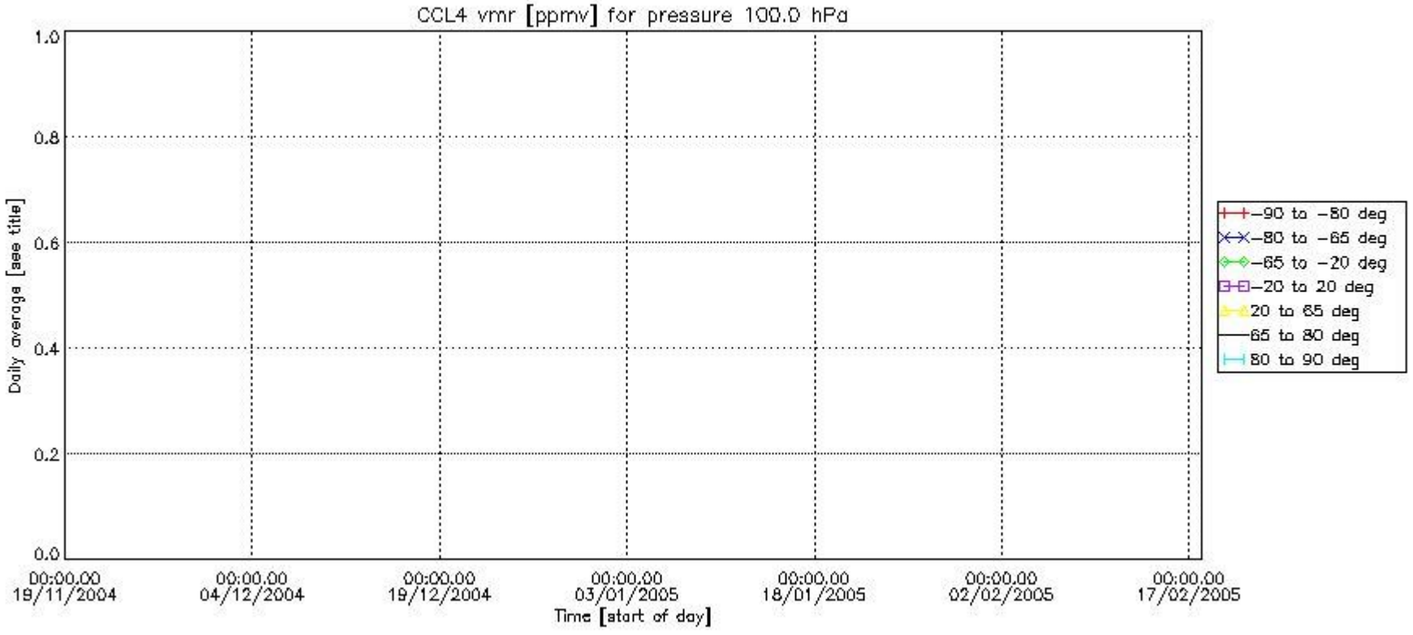

F11 vmr [ppmv] for pressure 100.0 hPa
Daily average [see title]
2.2×10⁻⁴
2.0×10⁻⁴
1.8×10⁻⁴
1.6×10⁻⁴
1.4×10⁻⁴
1.2×10⁻⁴
1.0×10⁻⁴
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

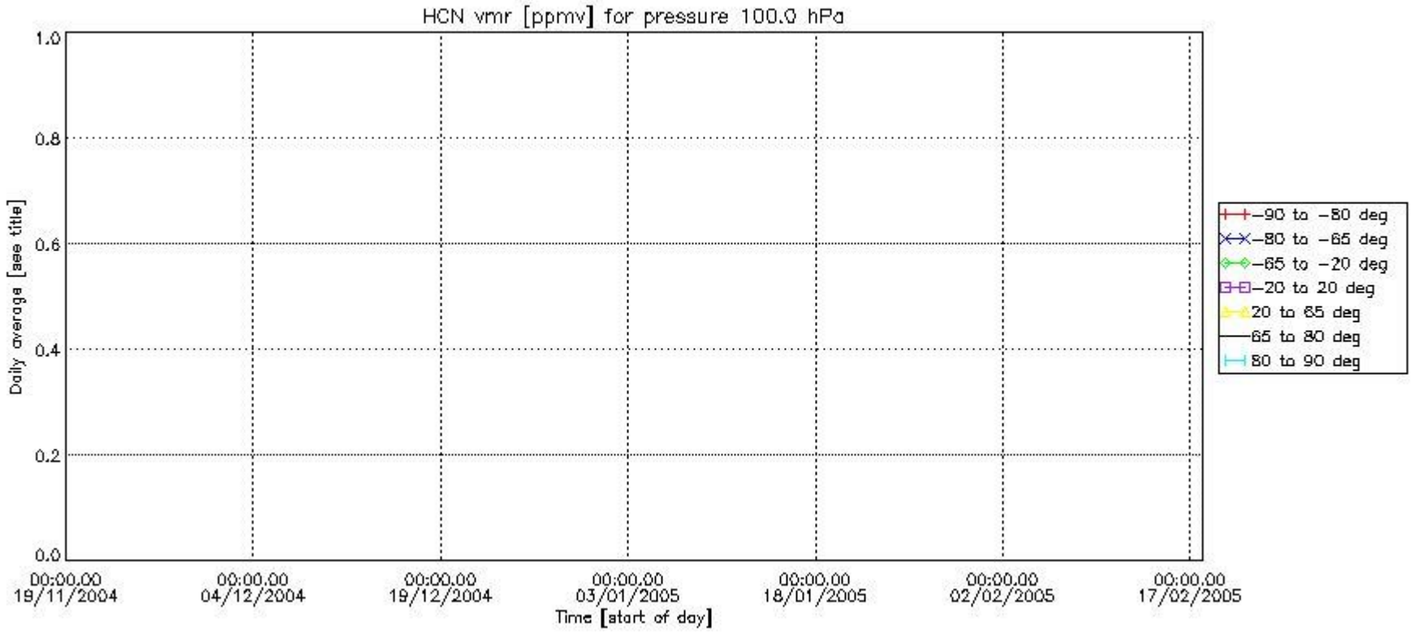

CLNO vmr [ppmv] for pressure 100.0 hPa
Daily average [see title]
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

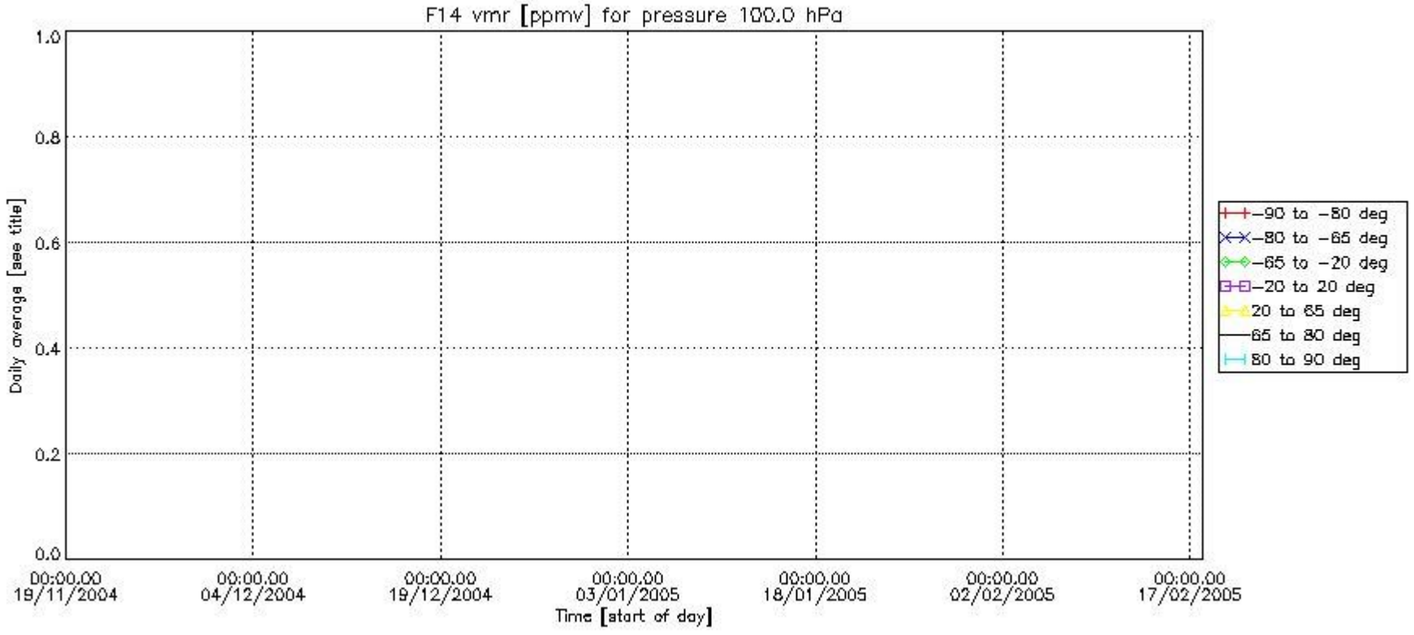

N2O5 vmr [ppmv] for pressure 100.0 hPa
Daily average [see title]
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

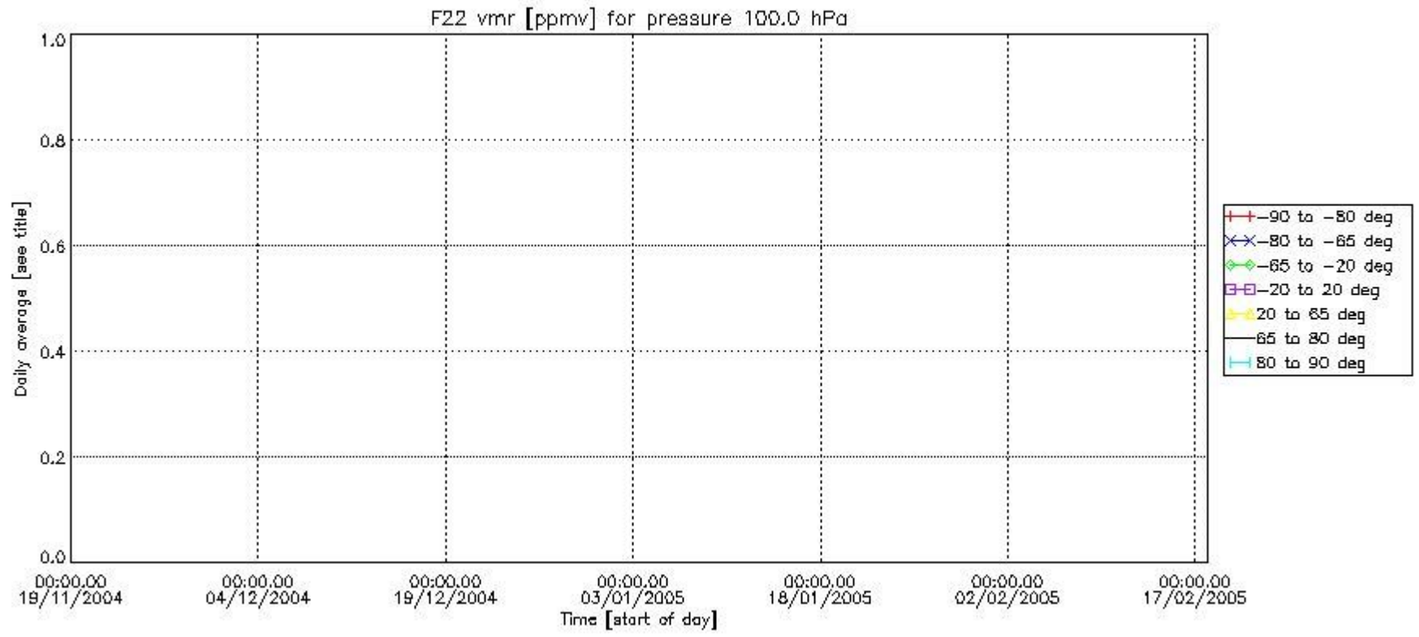

F12 vmr [ppmv] for pressure 100.0 hPa
Daily average [see title]
5.5×10⁻⁴
5.0×10⁻⁴
4.5×10⁻⁴
4.0×10⁻⁴
3.5×10⁻⁴
3.0×10⁻⁴
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

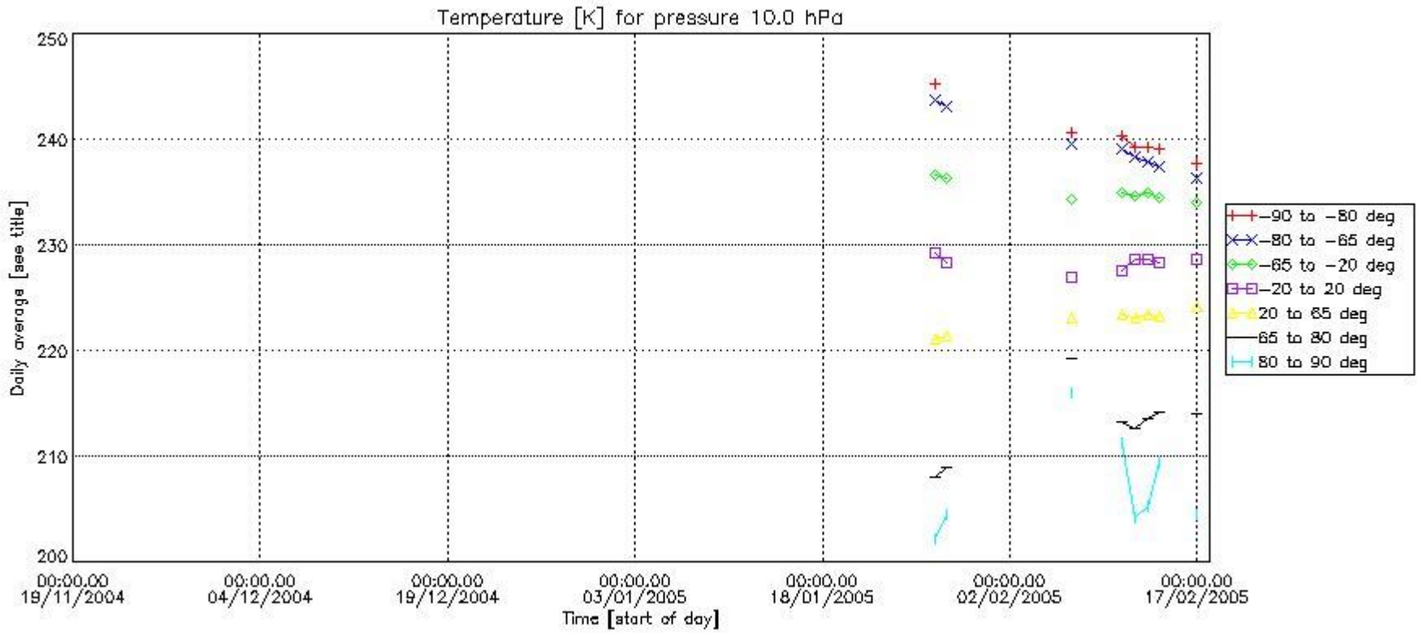

COF2 vmr [ppmv] for pressure 100.0 hPa
Daily average [see title]
16
14
12
10
8
6
4
2
0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

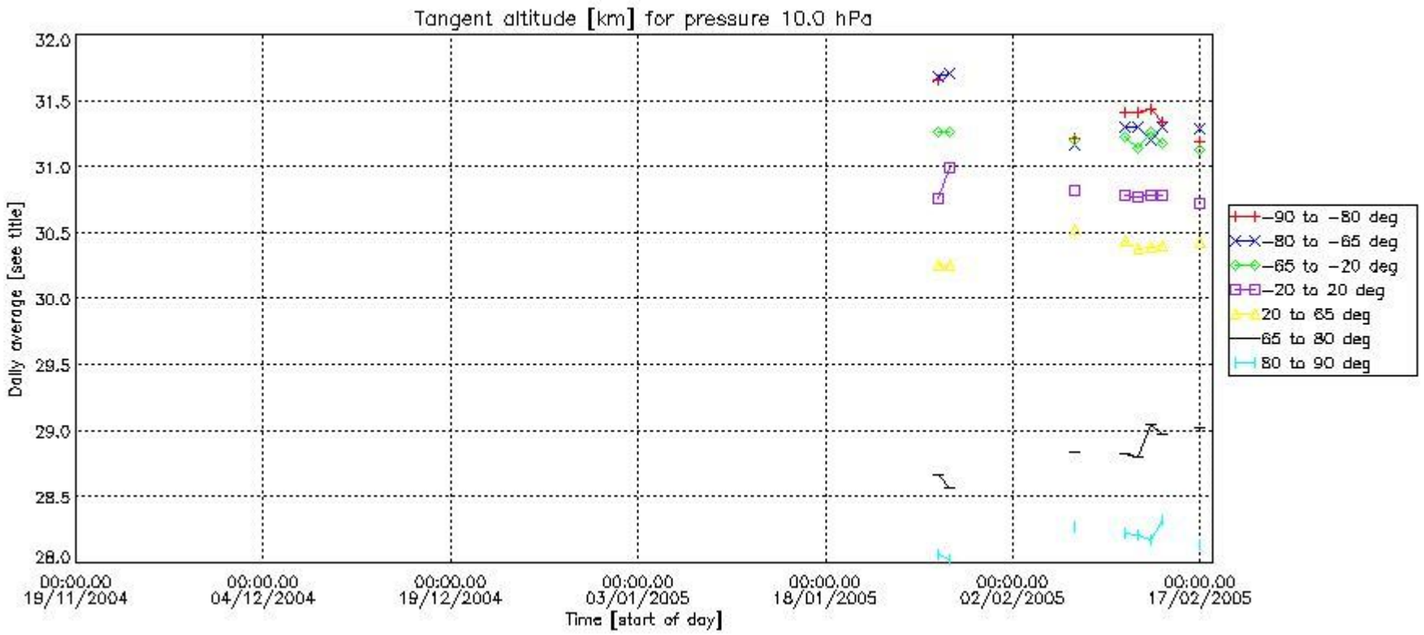

CCL4 vmr [ppmv] for pressure 100.0 hPa
Daily average [see title]
1.0
0.8
0.6
0.4
0.2
0.0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


HCN vmr [ppmv] for pressure 100.0 hPa
Daily average [see title]
1.0
0.8
0.6
0.4
0.2
0.0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

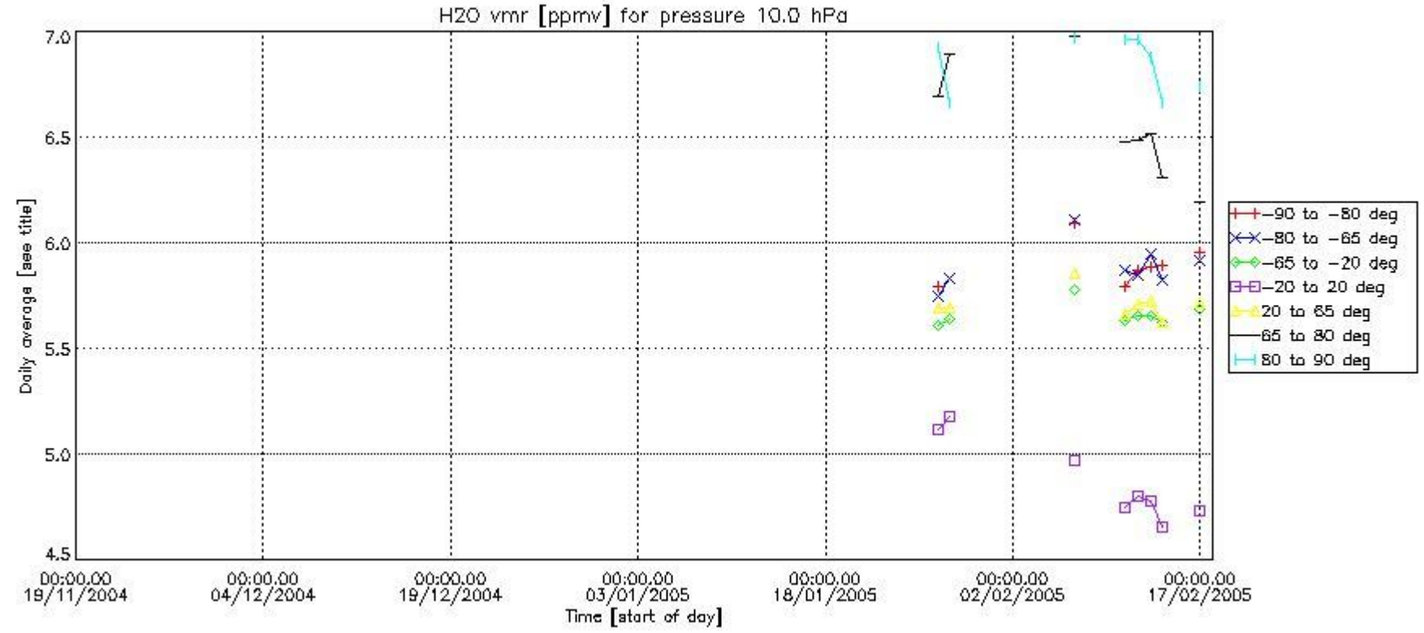

F14 vmr [ppmv] for pressure 100.0 hPa
Daily average [see title]
1.0
0.8
0.6
0.4
0.2
0.0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

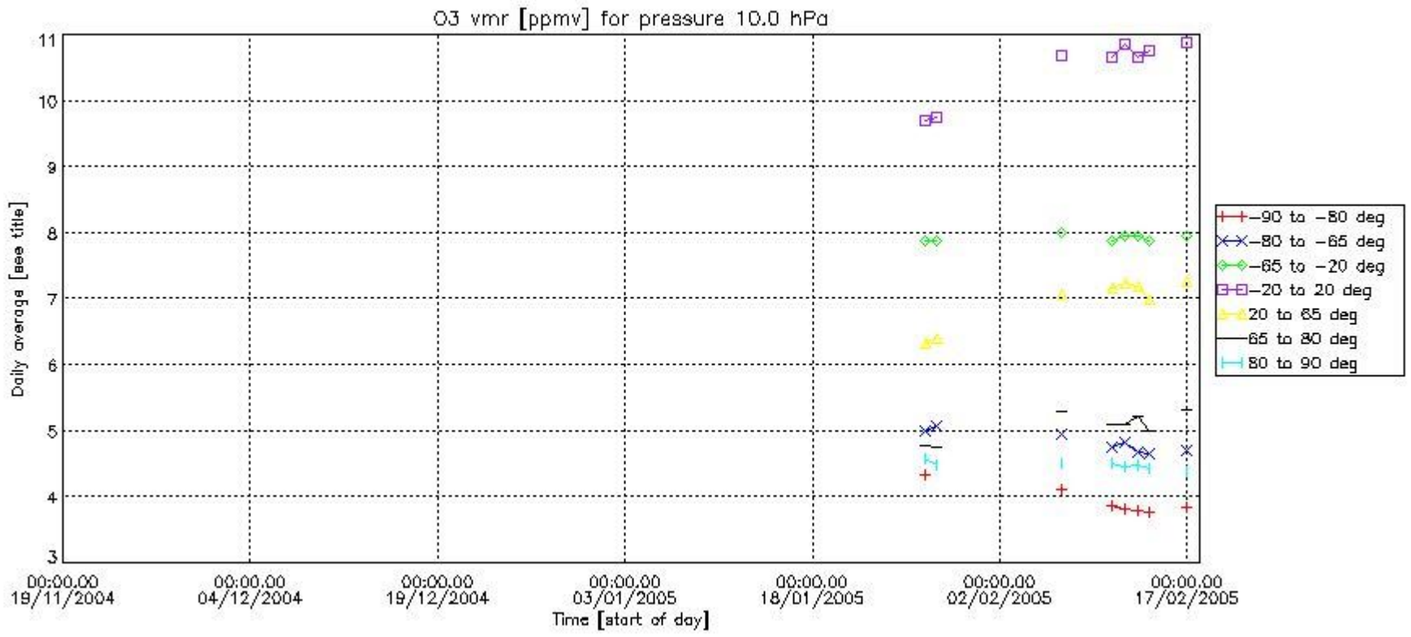

F22 vmr [ppmv] for pressure 100.0 hPa
Daily average [see title]
1.0
0.8
0.6
0.4
0.2
0.0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


Temperature [K] for pressure 10.0 hPa
Daily average [see title]
250
240
230
220
210
200
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

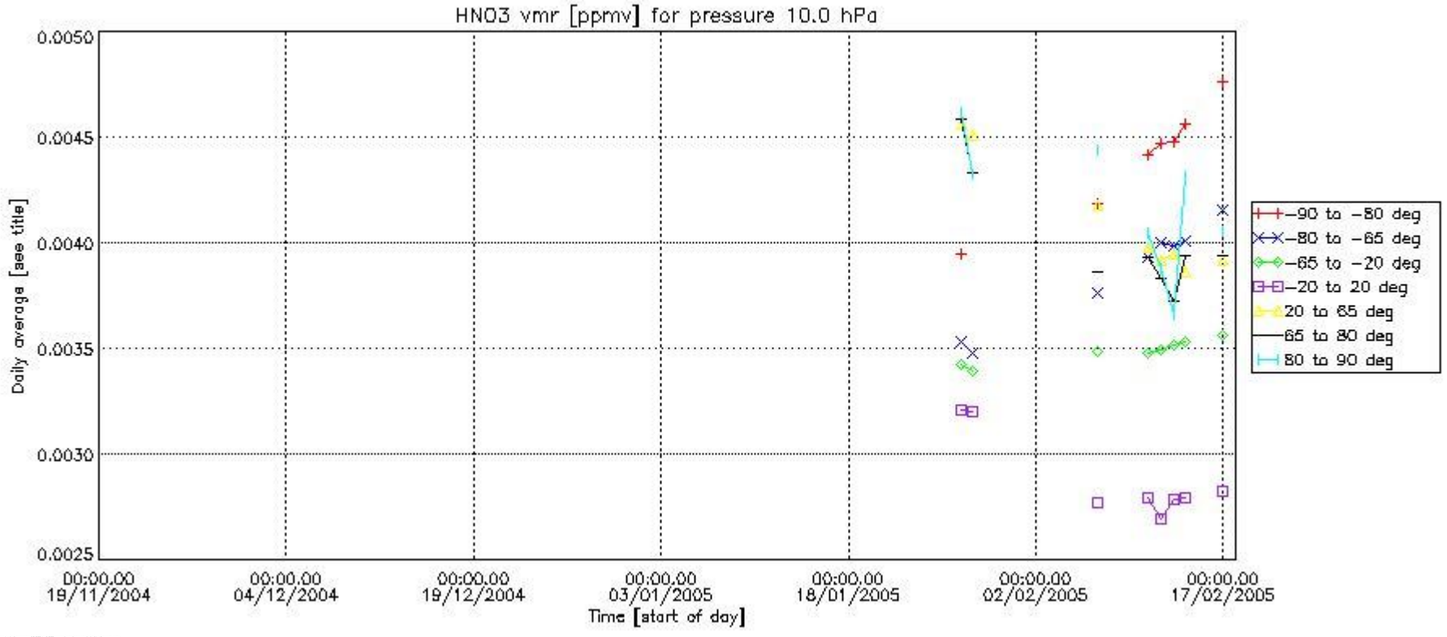


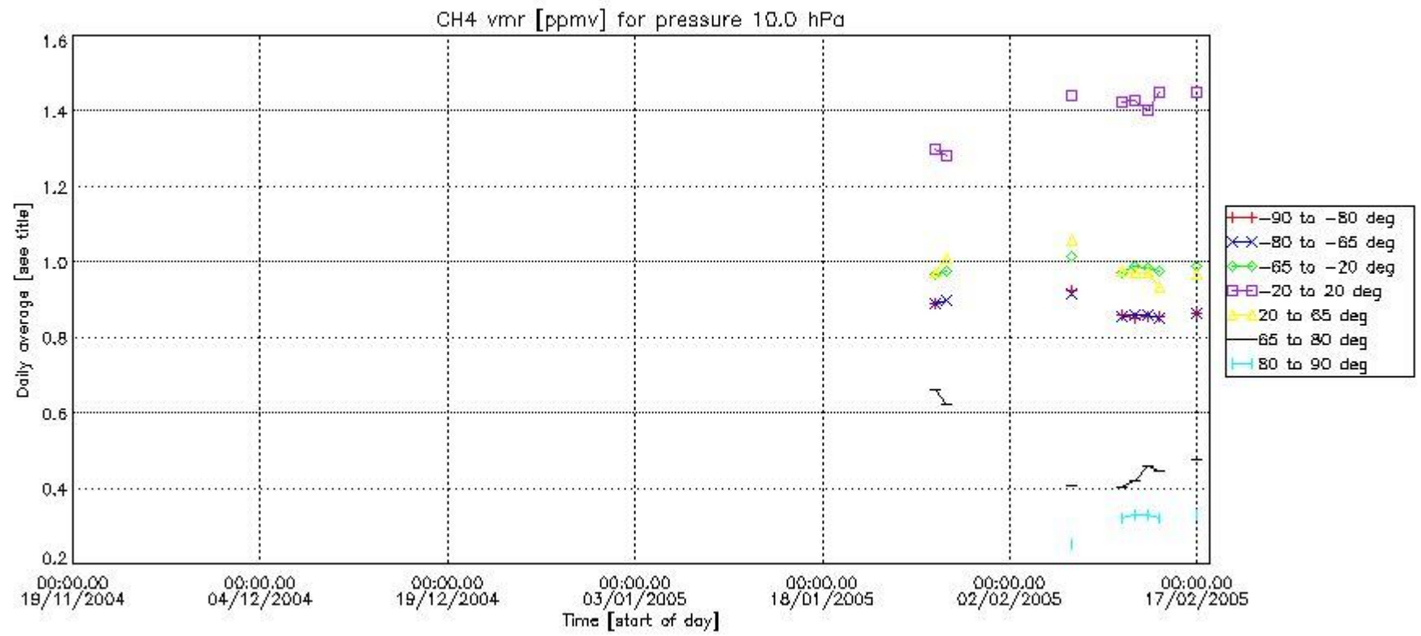
Note: in the following plot, values for H2O outside the range of 0.001 to 100,000 ppmv have been excluded in the averages.



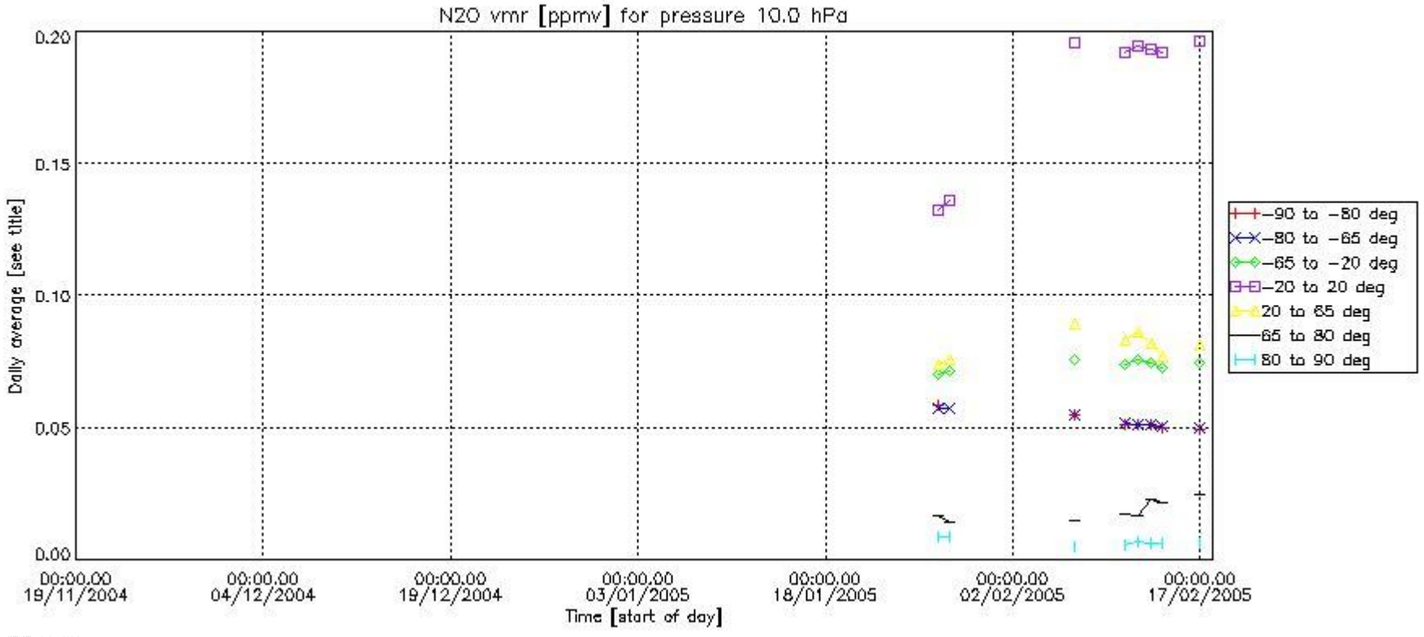


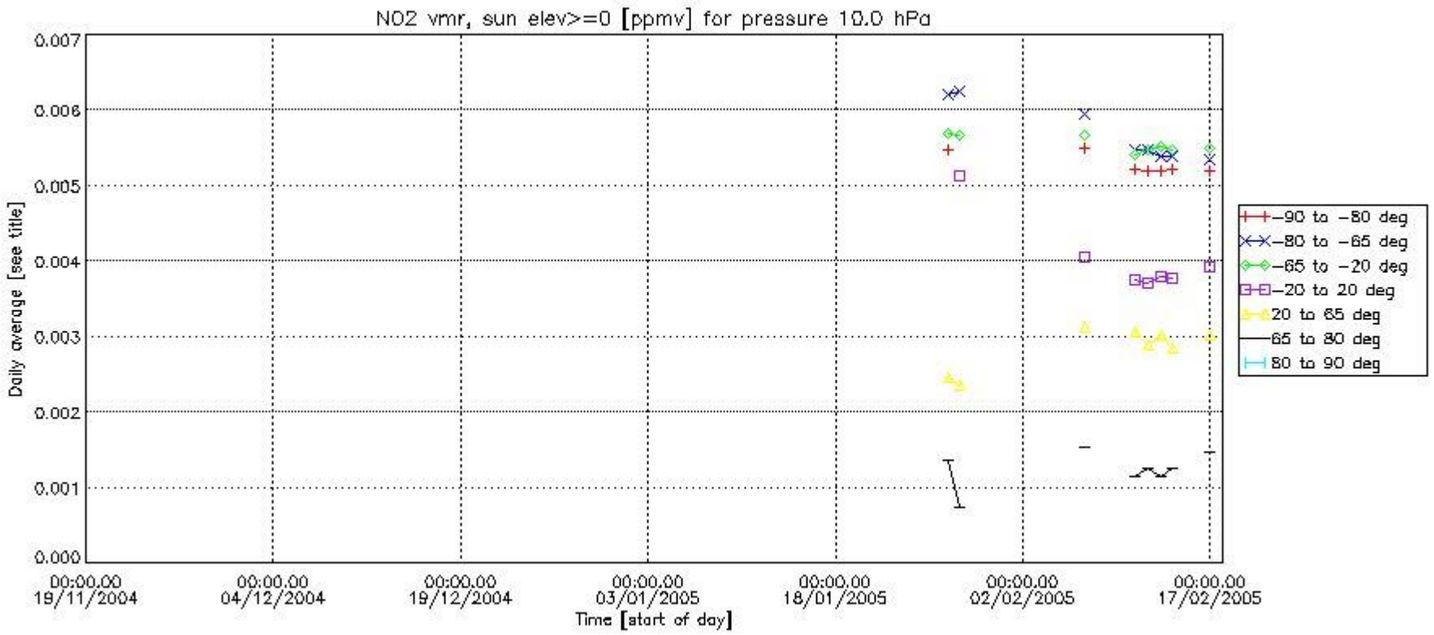
Note: in the following plot, values for HNO3 outside the range of 0.002 to 0.008 ppmv have been excluded in the averages.



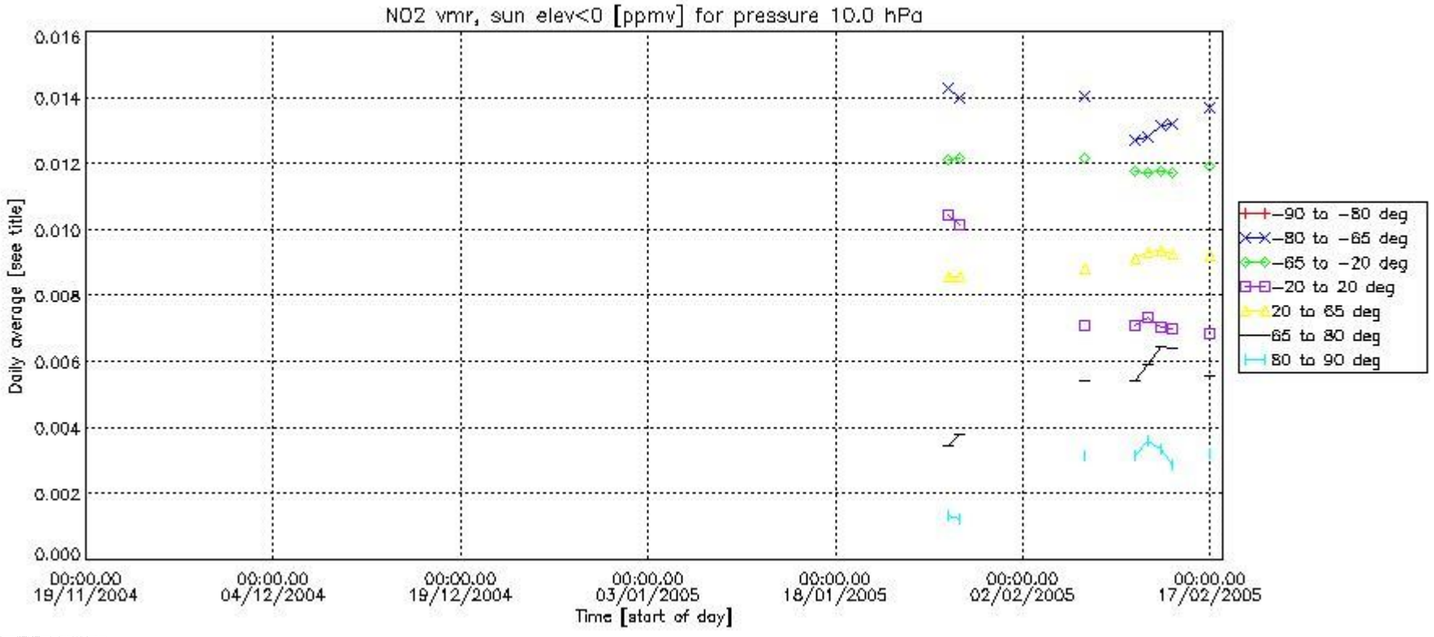


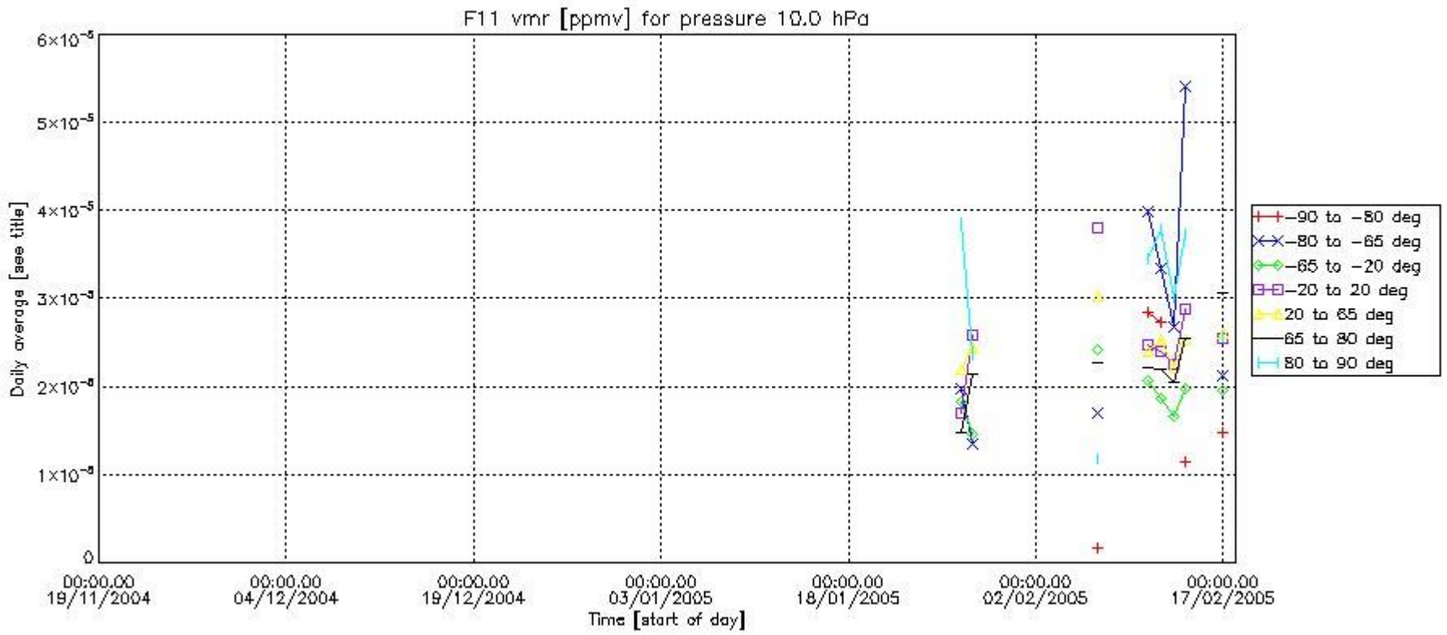
Note: in the following plot, values for N2O outside the range of 0.000 to 1.000 ppmv have been excluded in the averages.



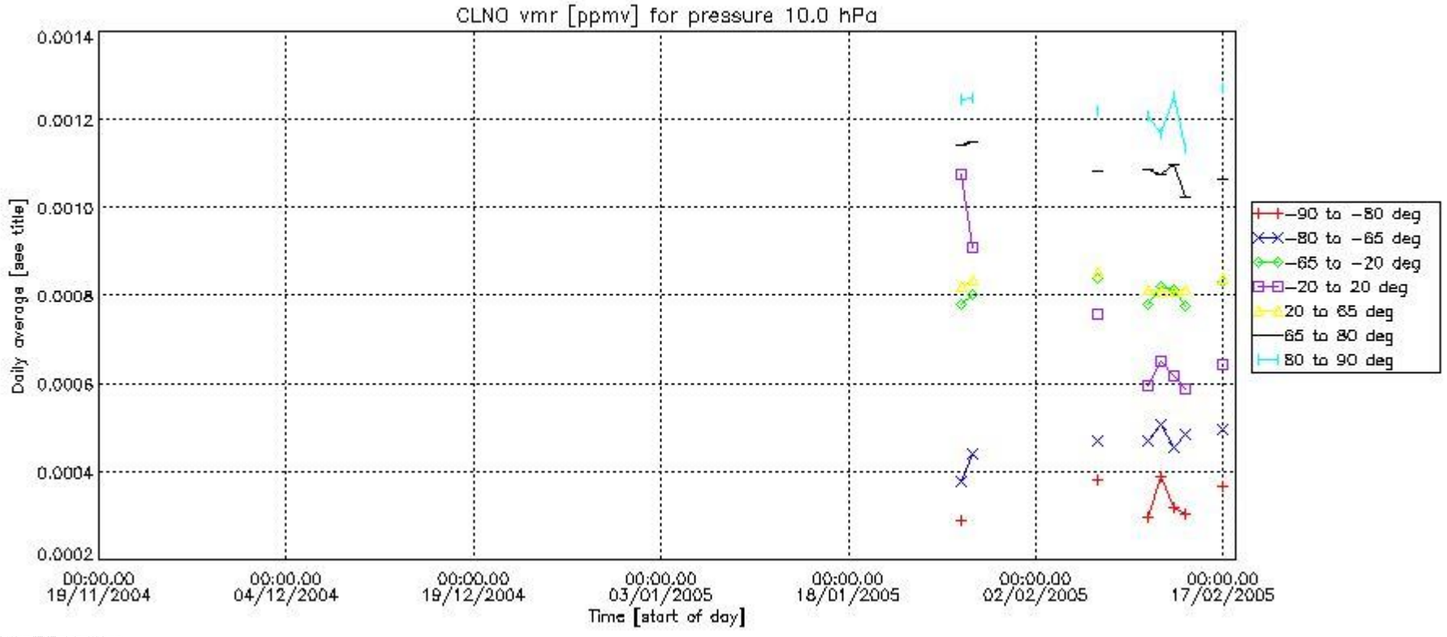


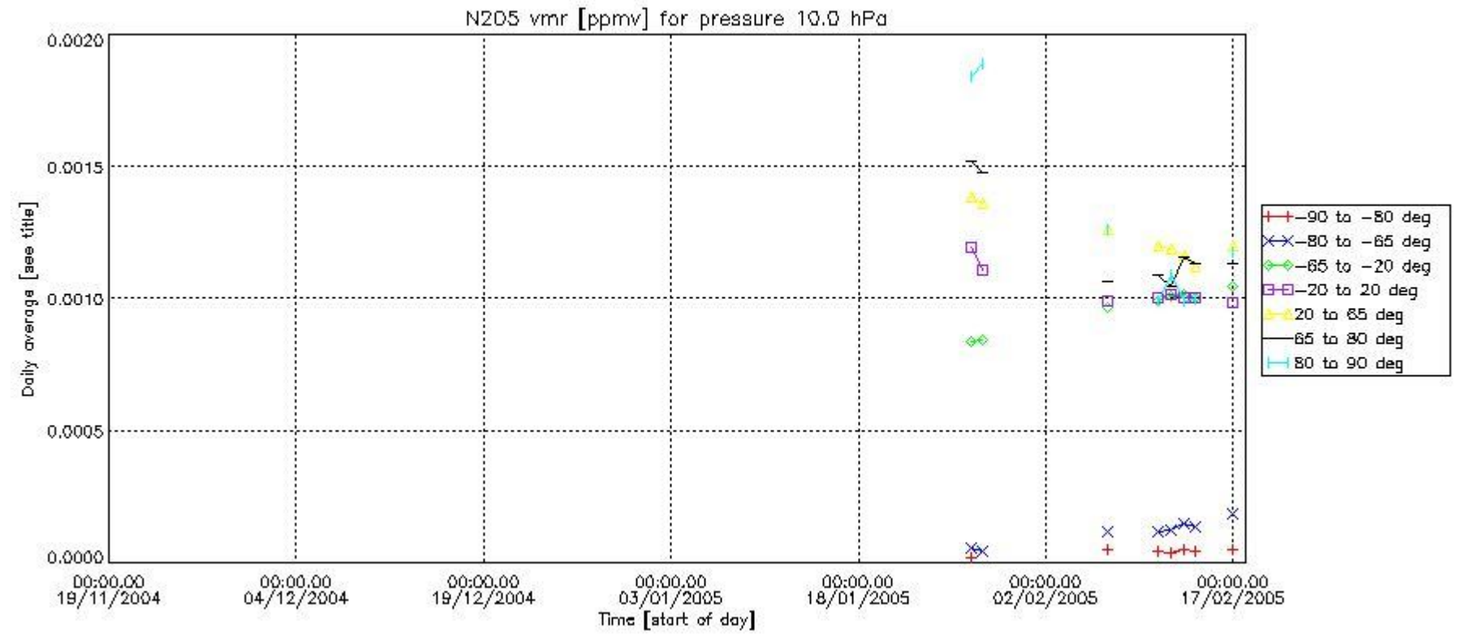
Note: in the following plot, values for NO2 outside the range of 0.000 to 1.000 ppmv have been excluded in the averages.

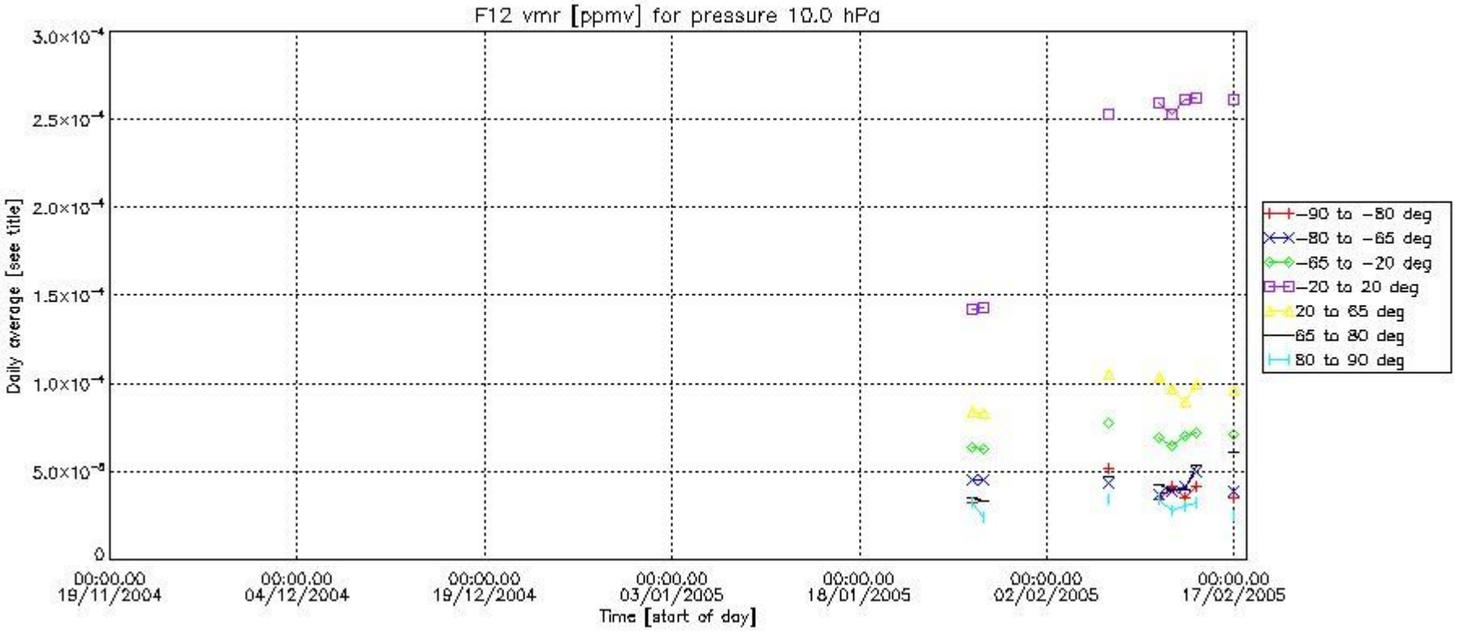


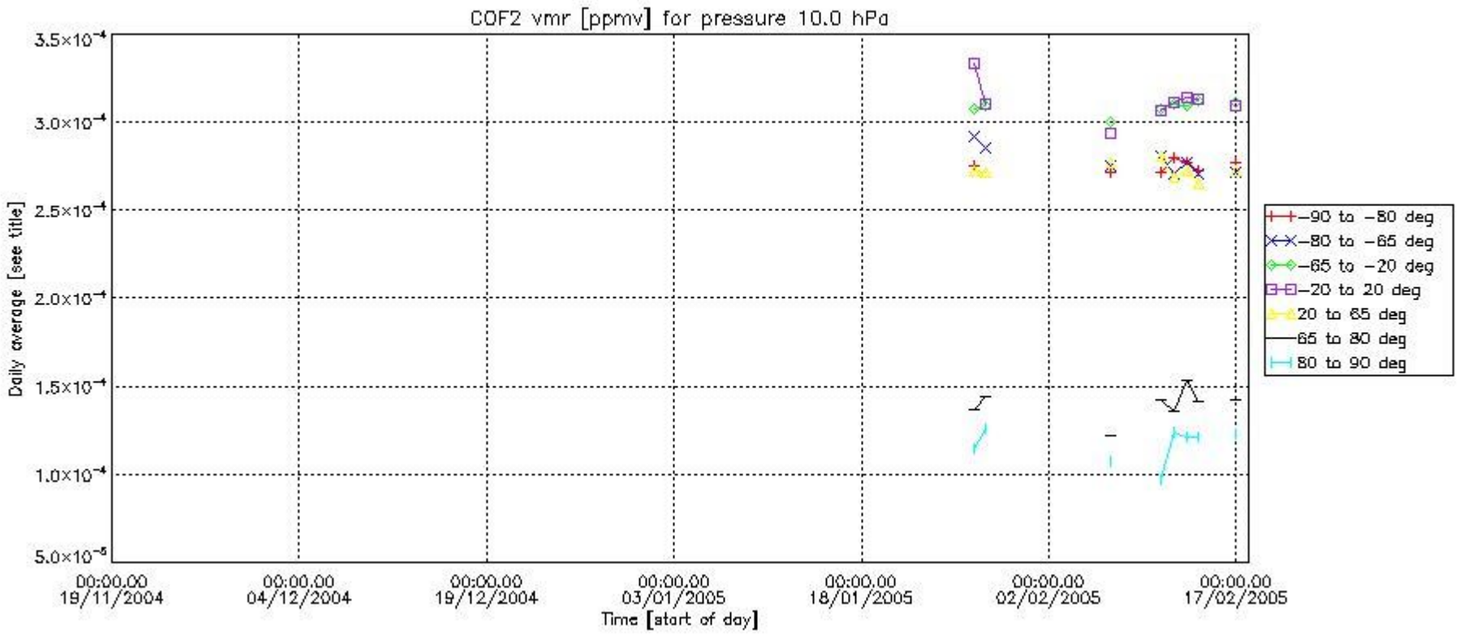


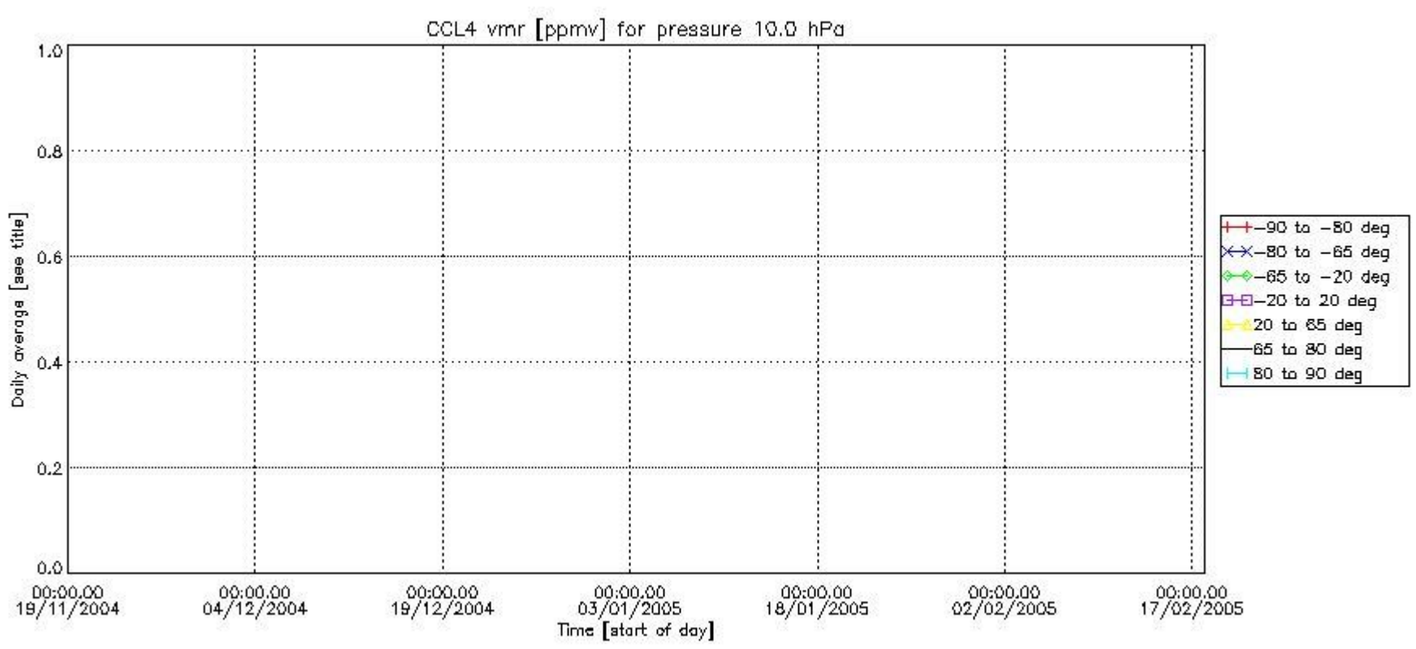
Note: in the following plot, values less than 0% and outside the range of 0.000 to 1.000 ppmv have been excluded in the averages.

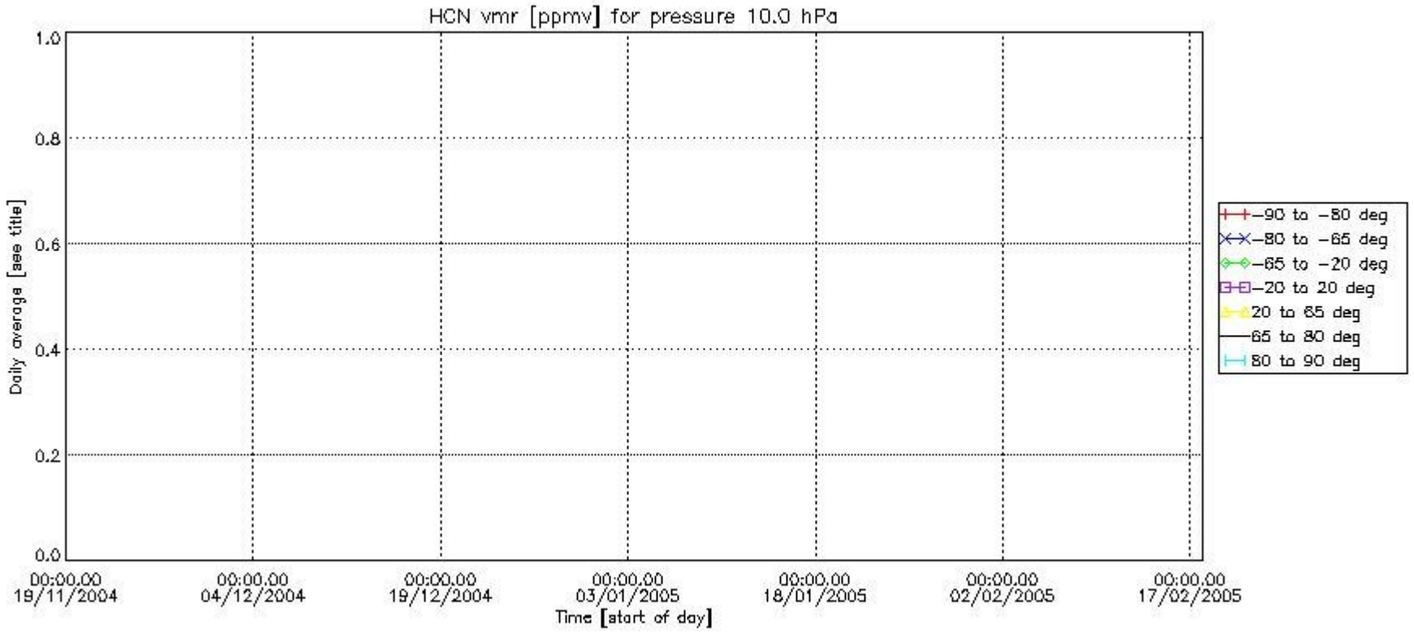


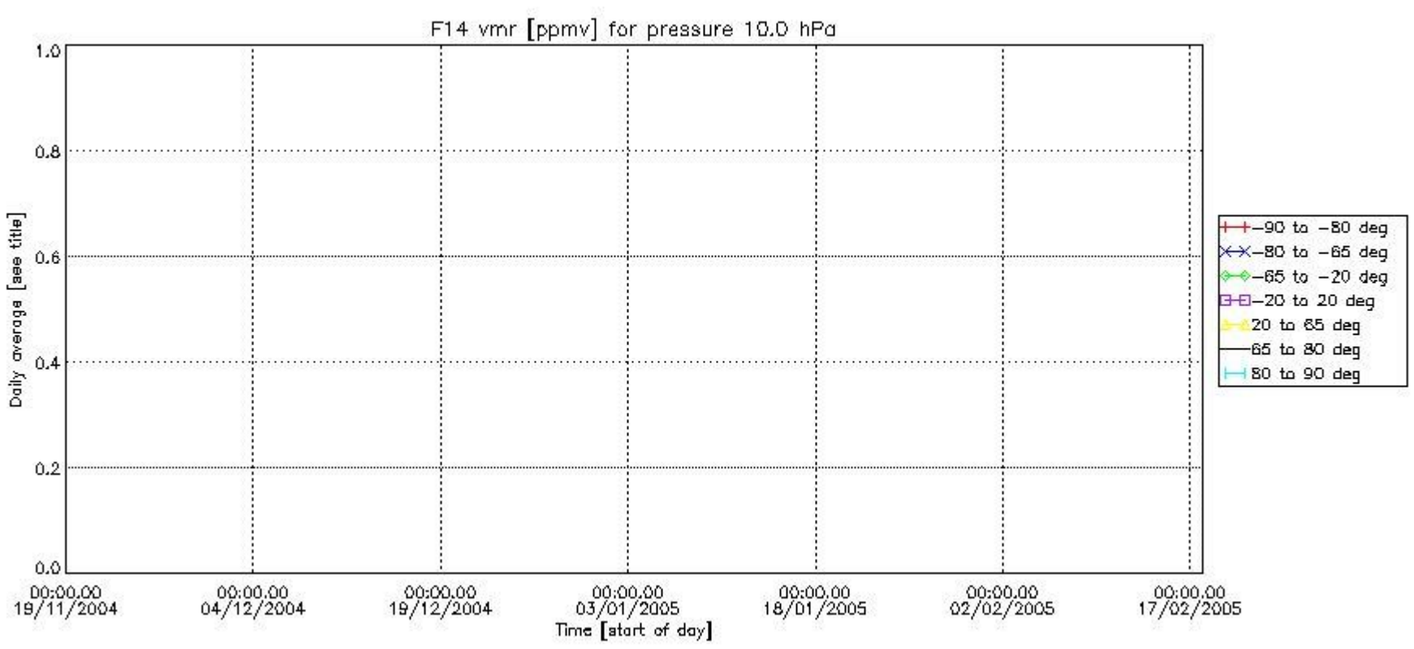

N2O5 vmr [ppmv] for pressure 10.0 hPa
Daily average [see title]
0.0020
0.0015
0.0010
0.0005
0.0000
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

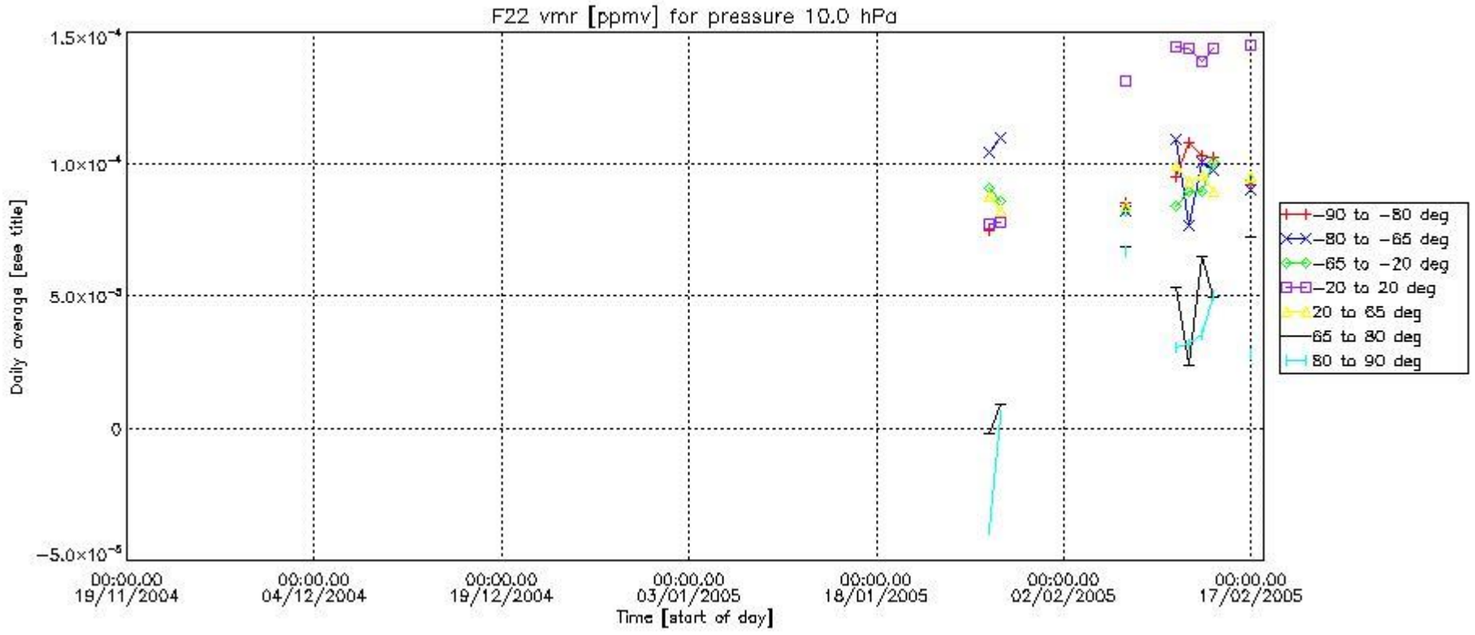

F12 vmr [ppmv] for pressure 10.0 hPa
Daily average [see title]
3.0×10⁻⁴
2.5×10⁻⁴
2.0×10⁻⁴
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

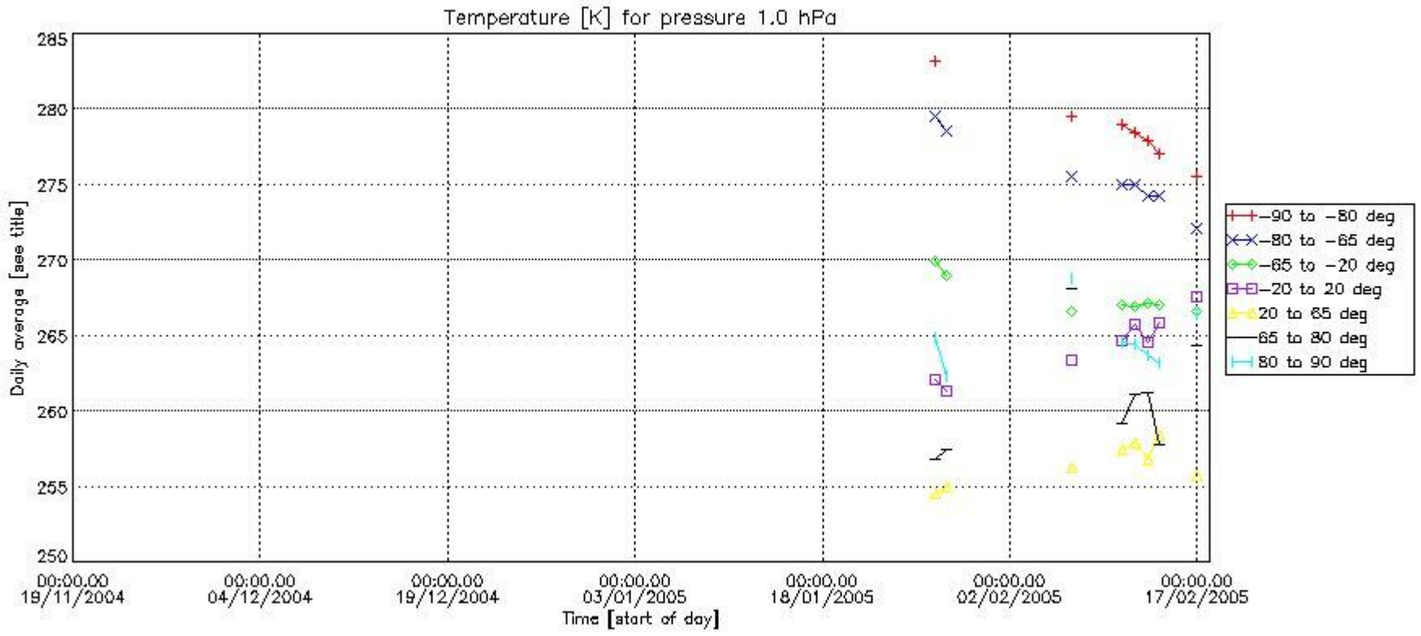

COF2 vmr [ppmv] for pressure 10.0 hPa
3.5×10⁻⁴
3.0×10⁻⁴
2.5×10⁻⁴
2.0×10⁻⁴
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

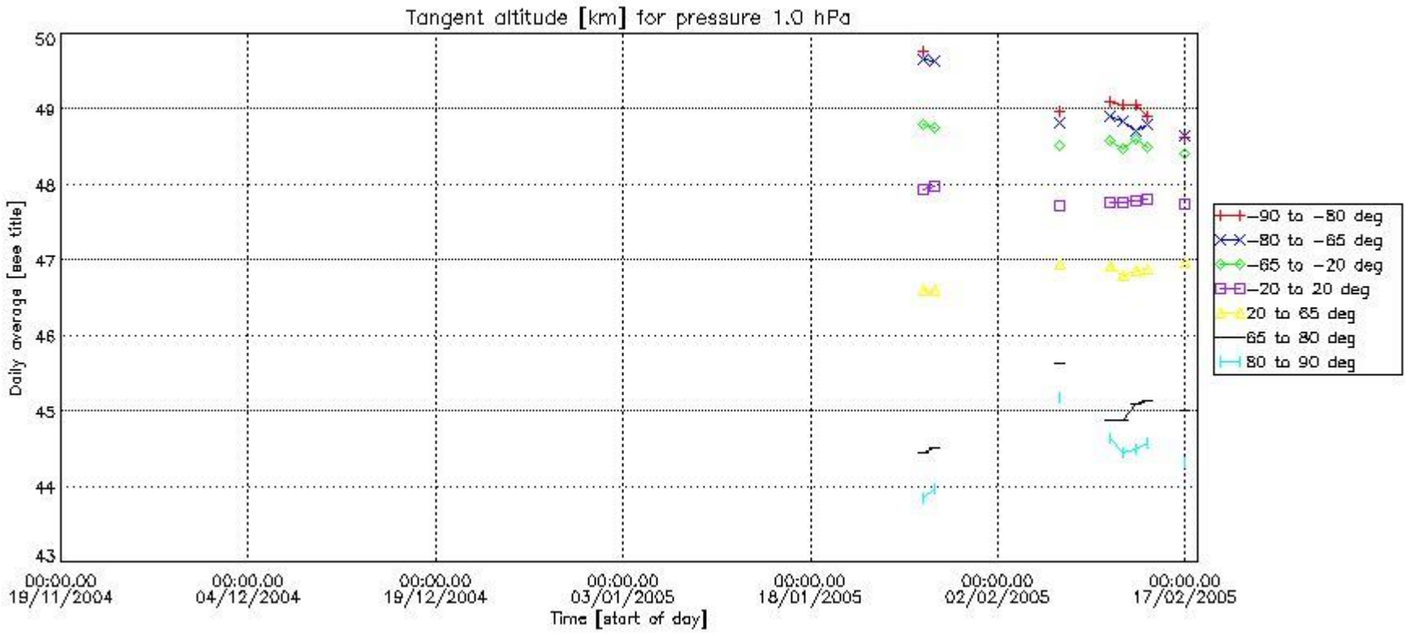

CCL4 vmr [ppmv] for pressure 10.0 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


HCN vmr [ppmv] for pressure 10.0 hPa
Daily average [see title]
1.0
0.8
0.6
0.4
0.2
0.0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

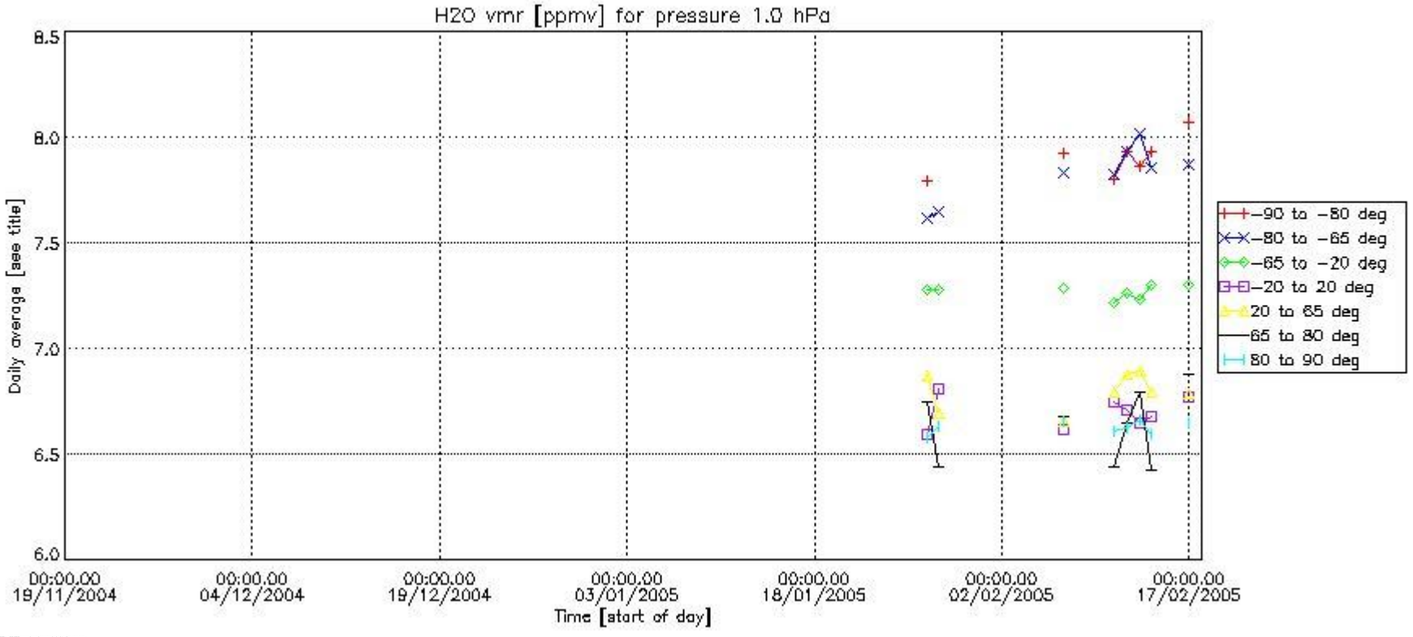

F14 vmr [ppmv] for pressure 10.0 hPa
Daily average [see title]
1.0
0.8
0.6
0.4
0.2
0.0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

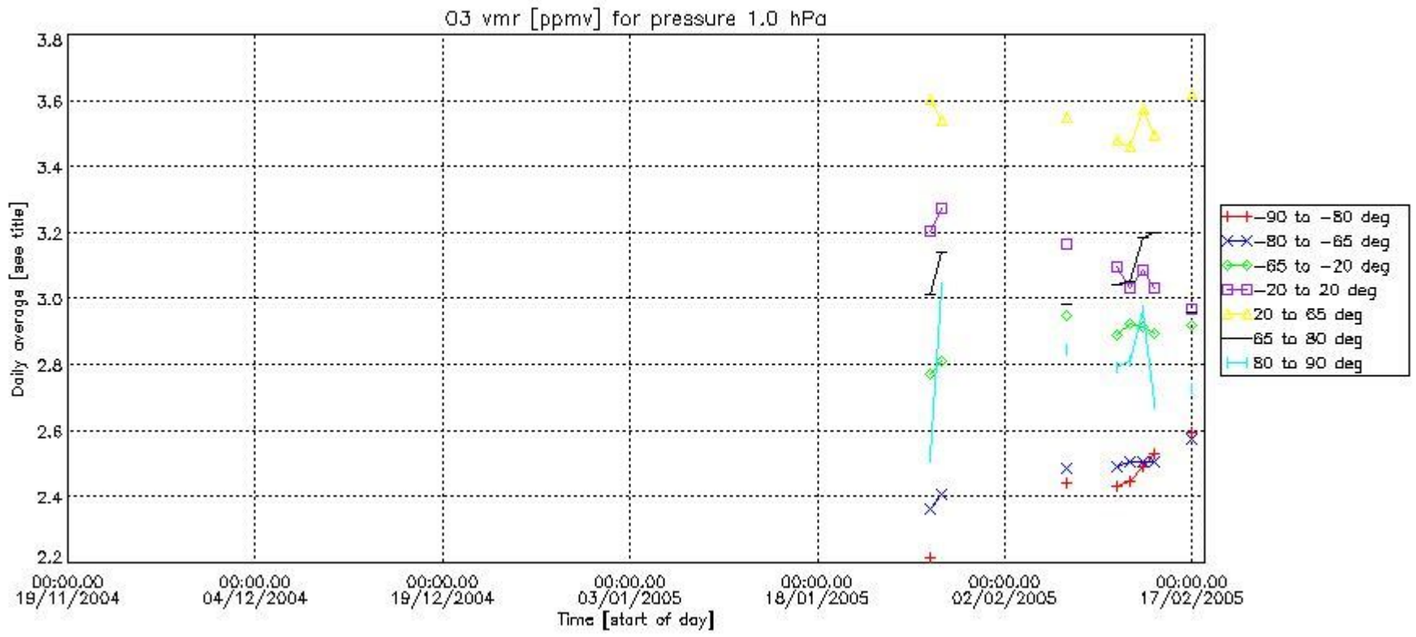

F22 vmr [ppmv] for pressure 10.0 hPa
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


Temperature [K] for pressure 1.0 hPa
285
280
275
270
265
260
255
250
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

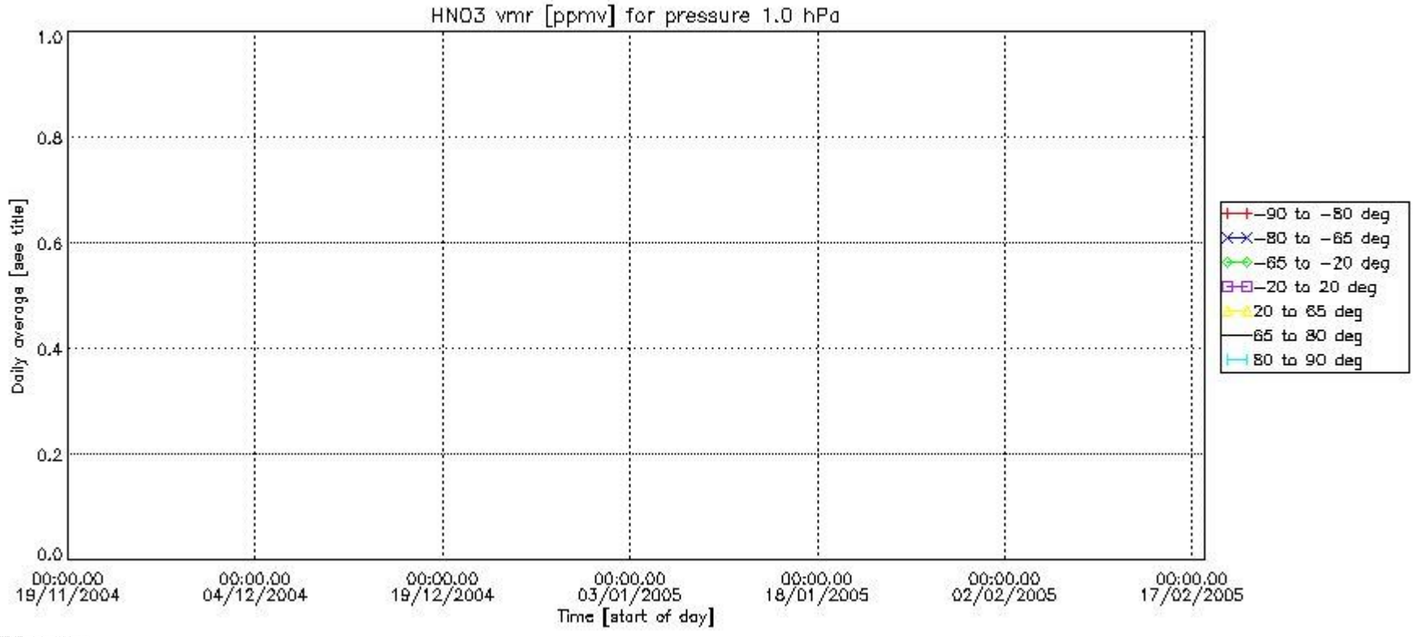


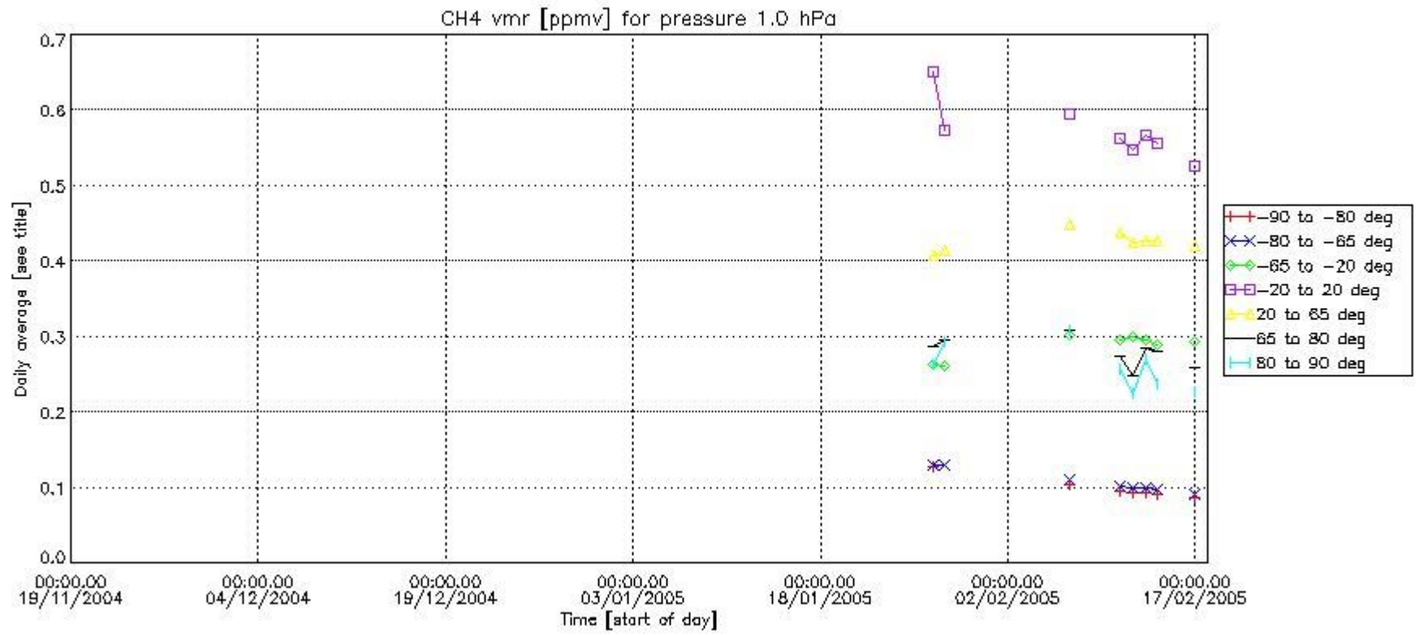
Note: in the following plot, values for H2O outside the range of 0.001 to 100,000 ppmv have been excluded in the averages.



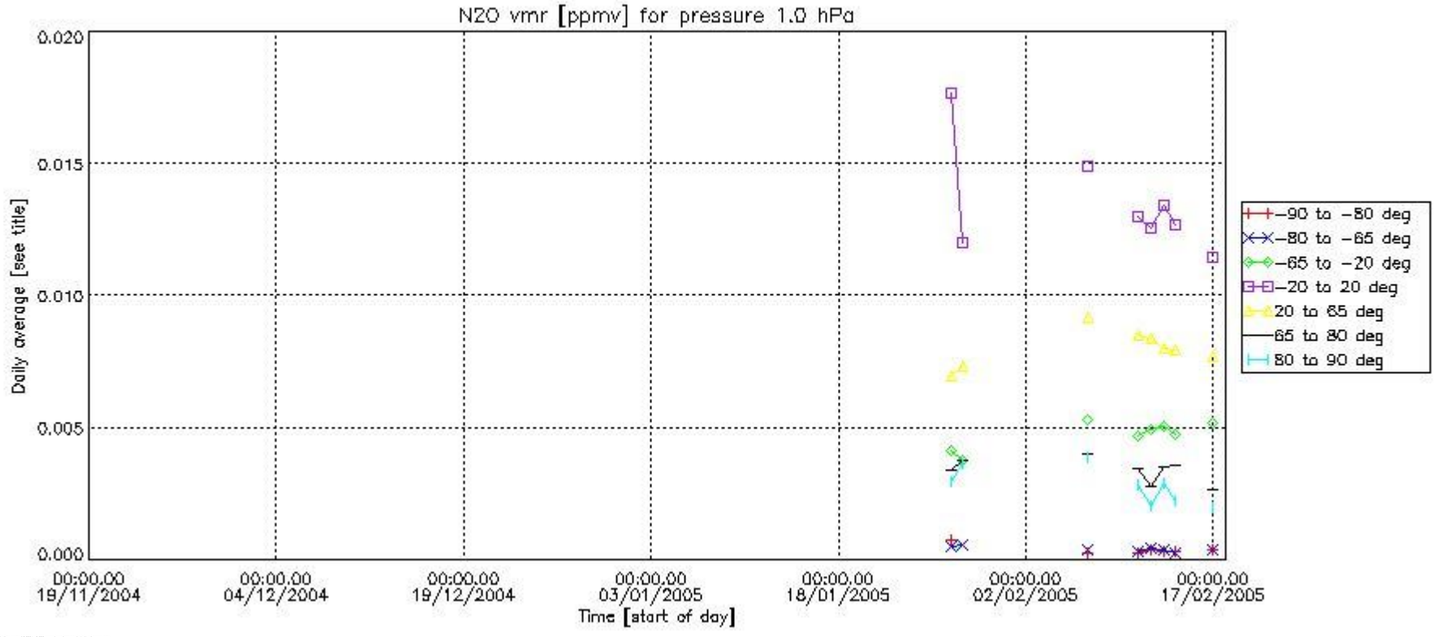


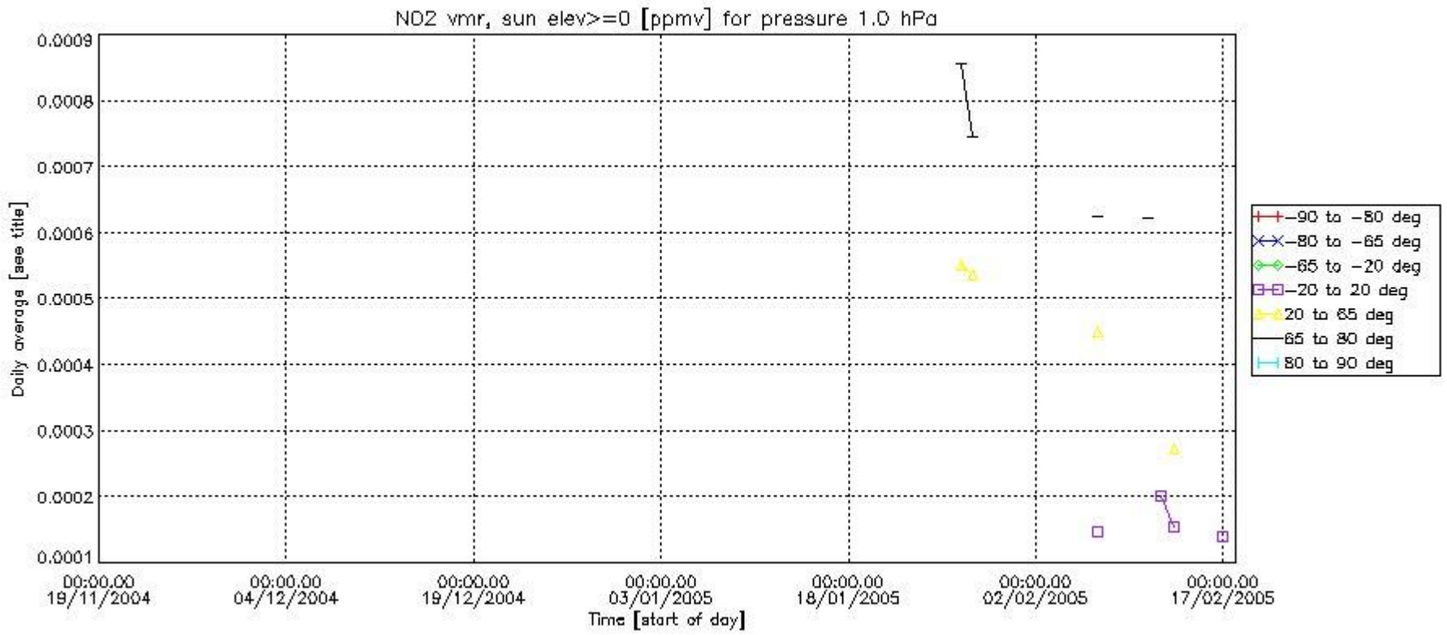
Note: In the following plot, values for HNO3 outside the range of 0.000 to 1.000 ppmv have been excluded in the averages.



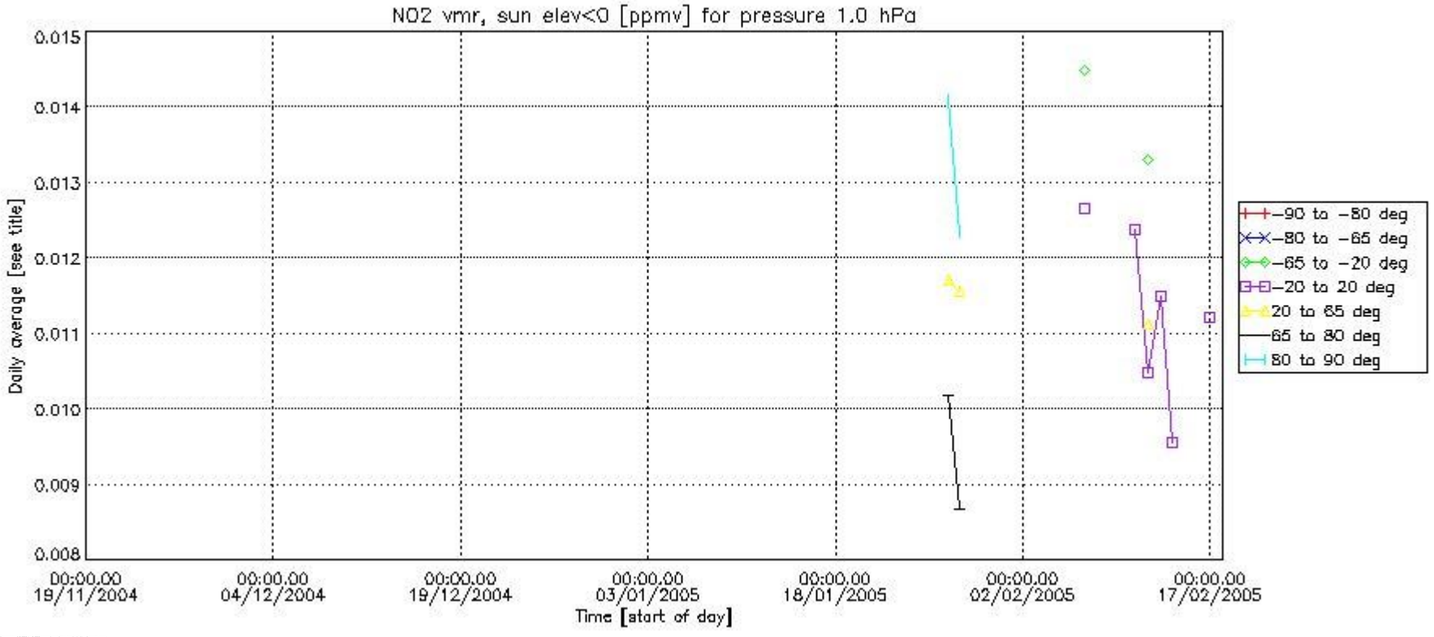


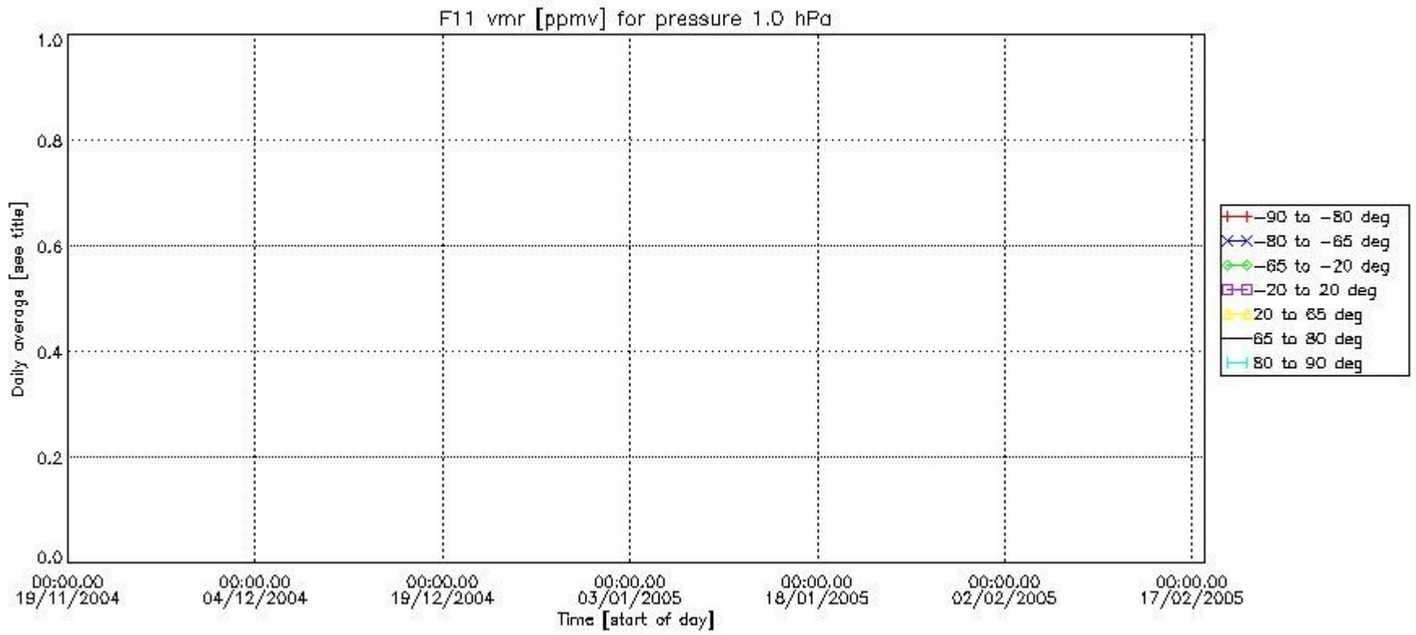
Note: in the following plot, values for N2O outside the range of 0.000 to 1.000 ppmv have been excluded in the averages.



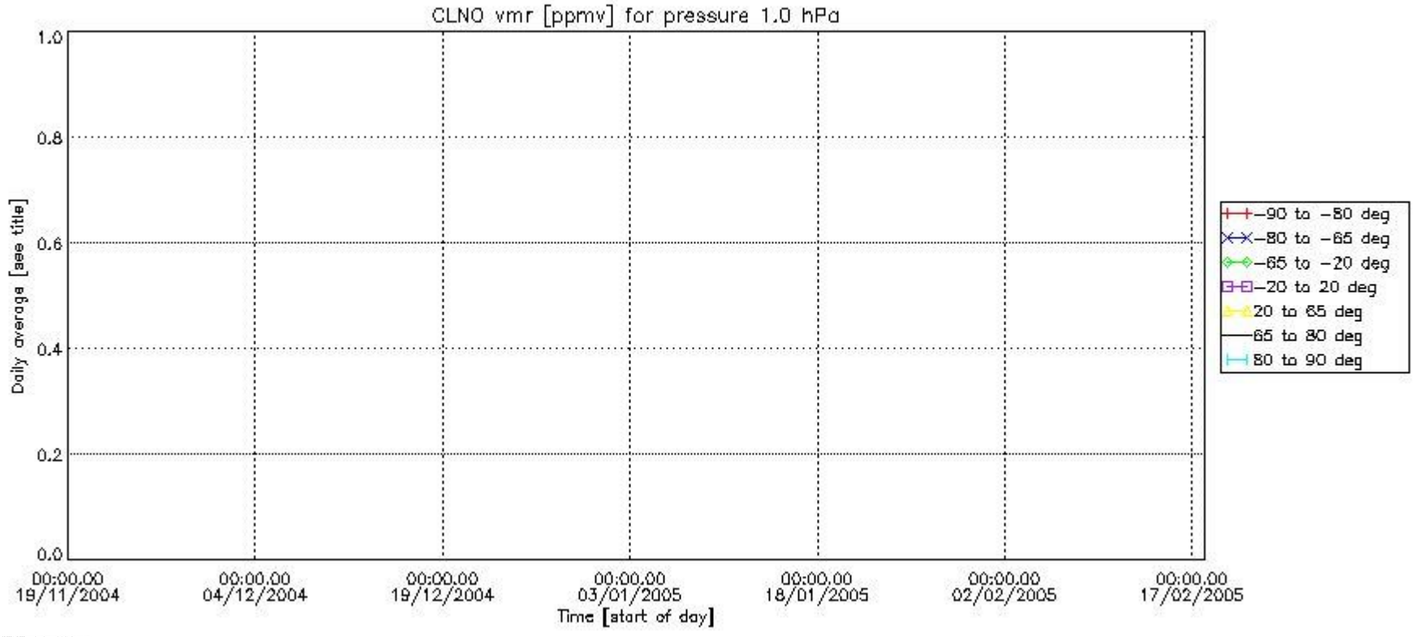


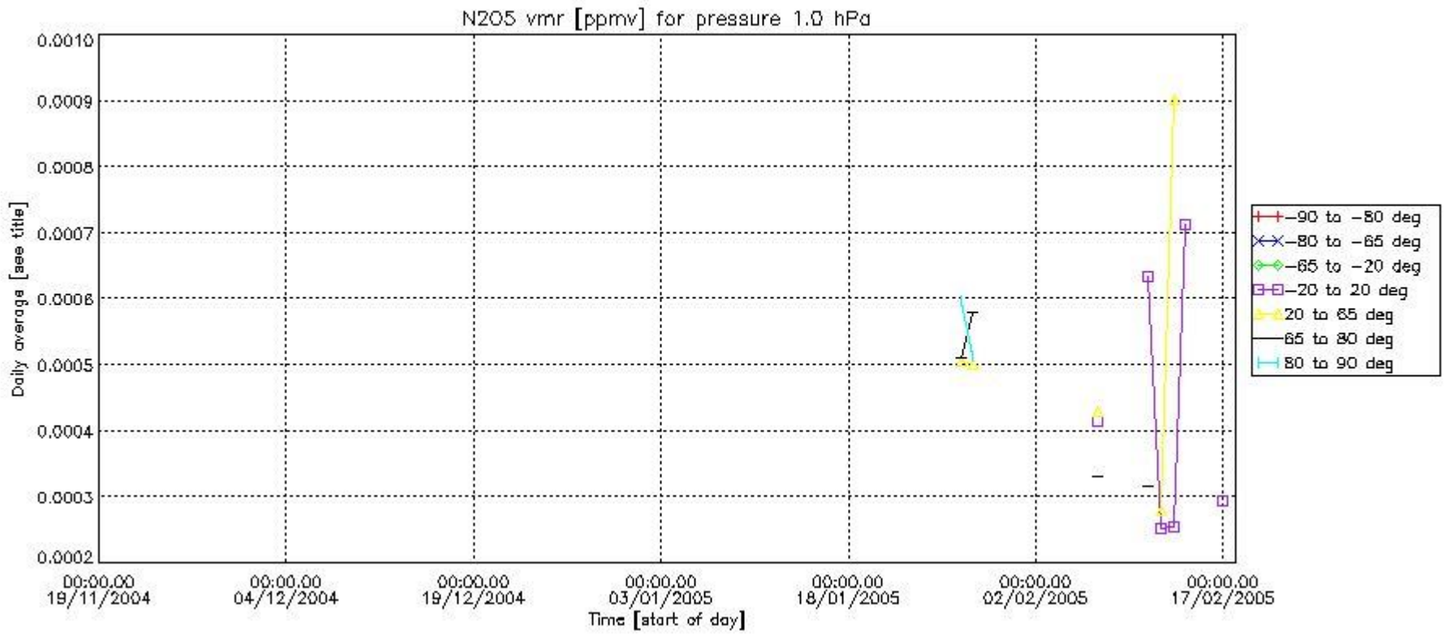
Note: in the following plot, values for NO2 outside the range of 0.005 to 1.000 ppmv have been excluded in the averages.



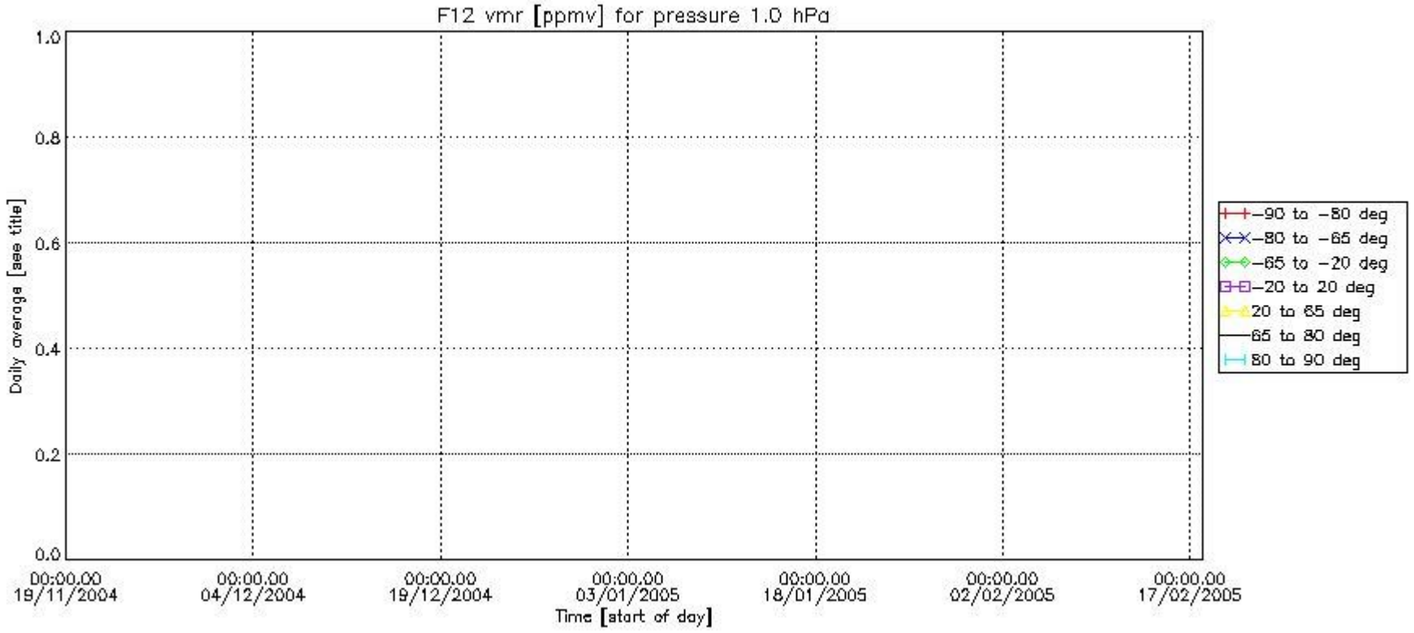


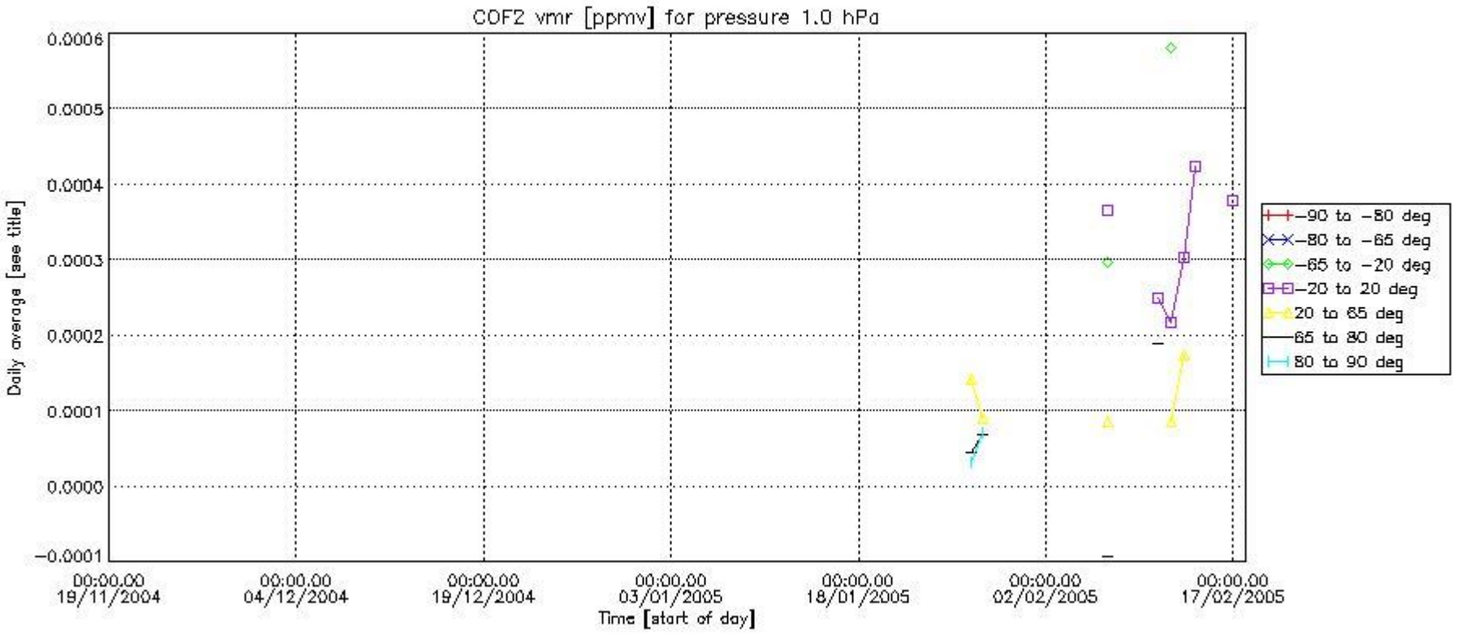
Note: in the following plot, values less than 0.000 outside the range of 0.000 to 1.000 ppmv have been excluded in the averages.

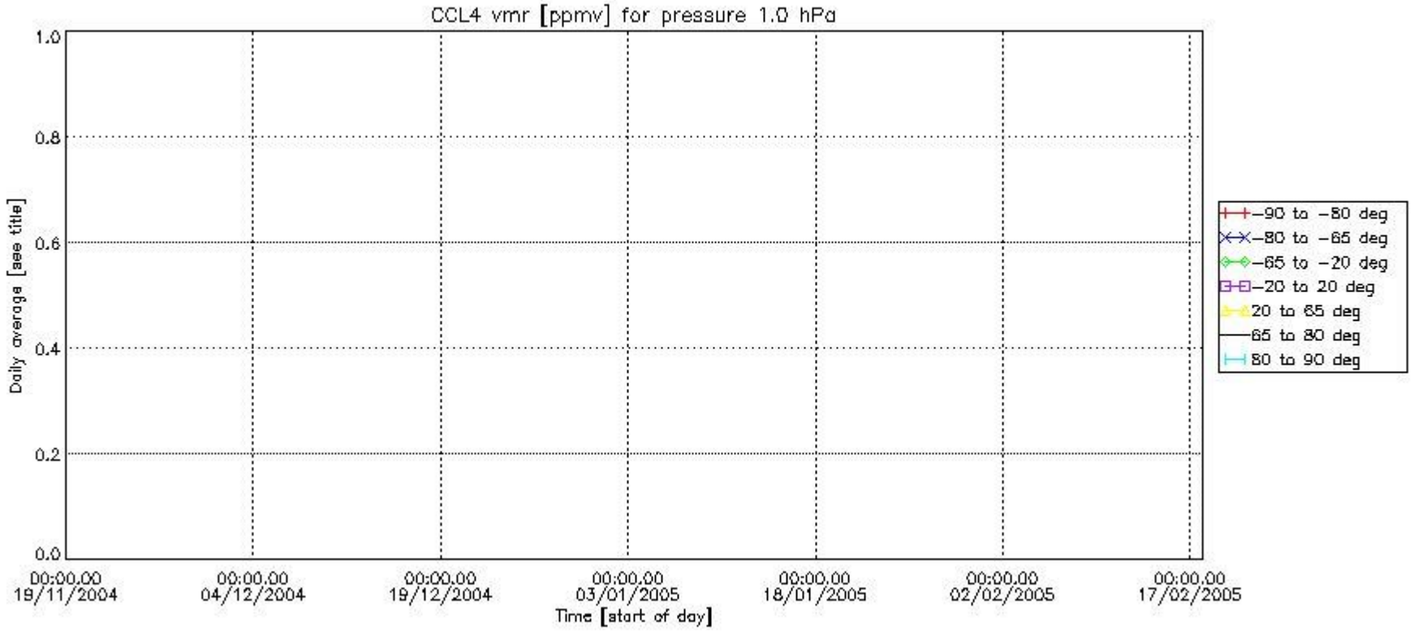


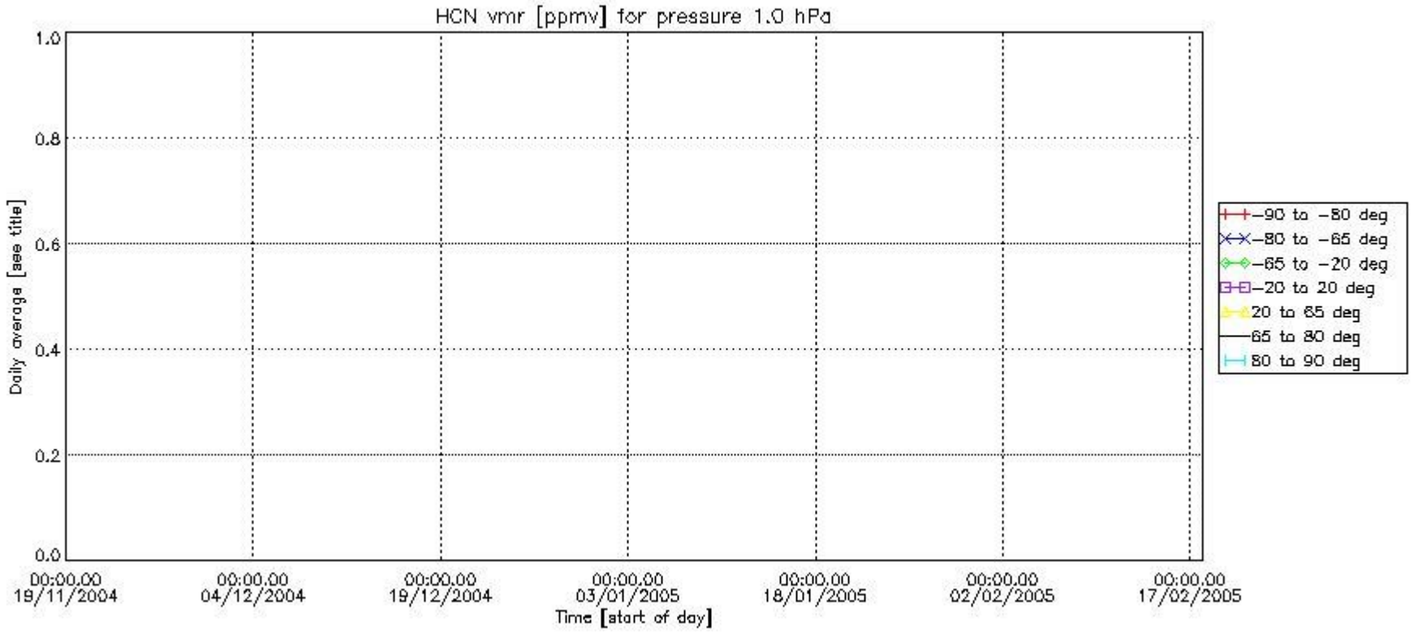


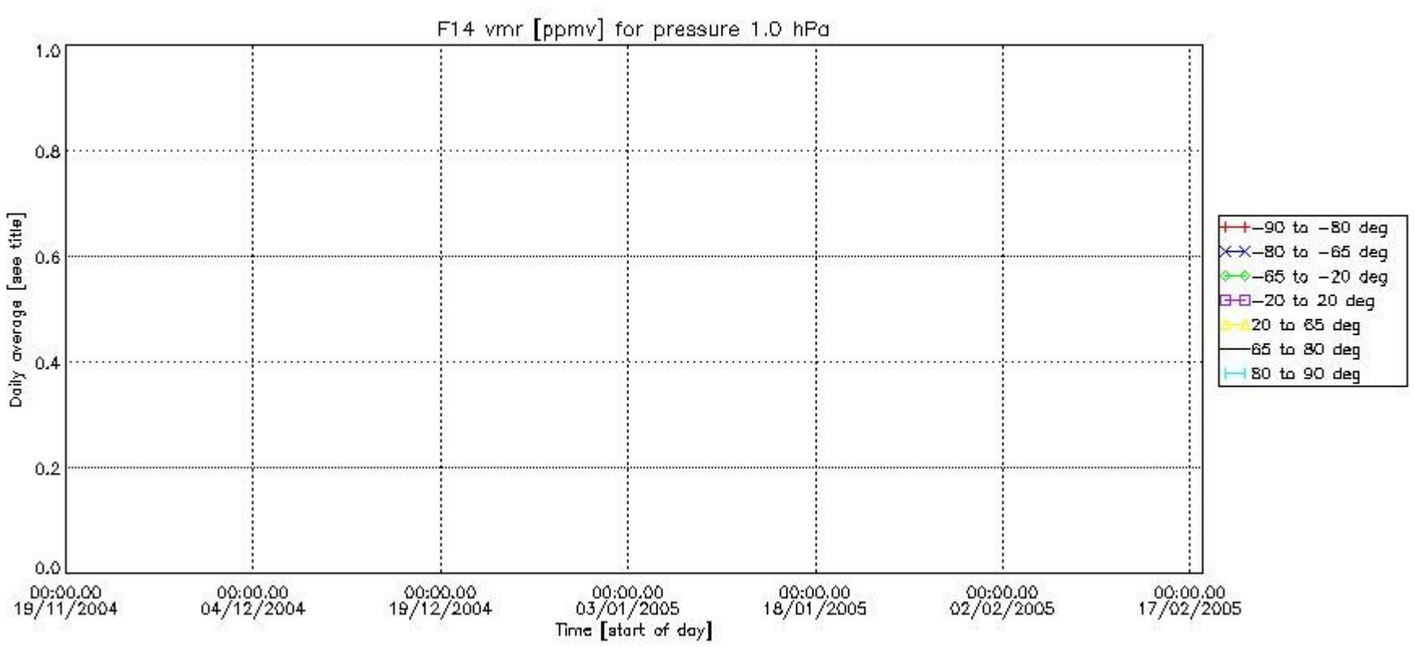
Note: in the following plot, values for F12 outside the range of 0.000 to 1.000 ppmv have been excluded in the averages.

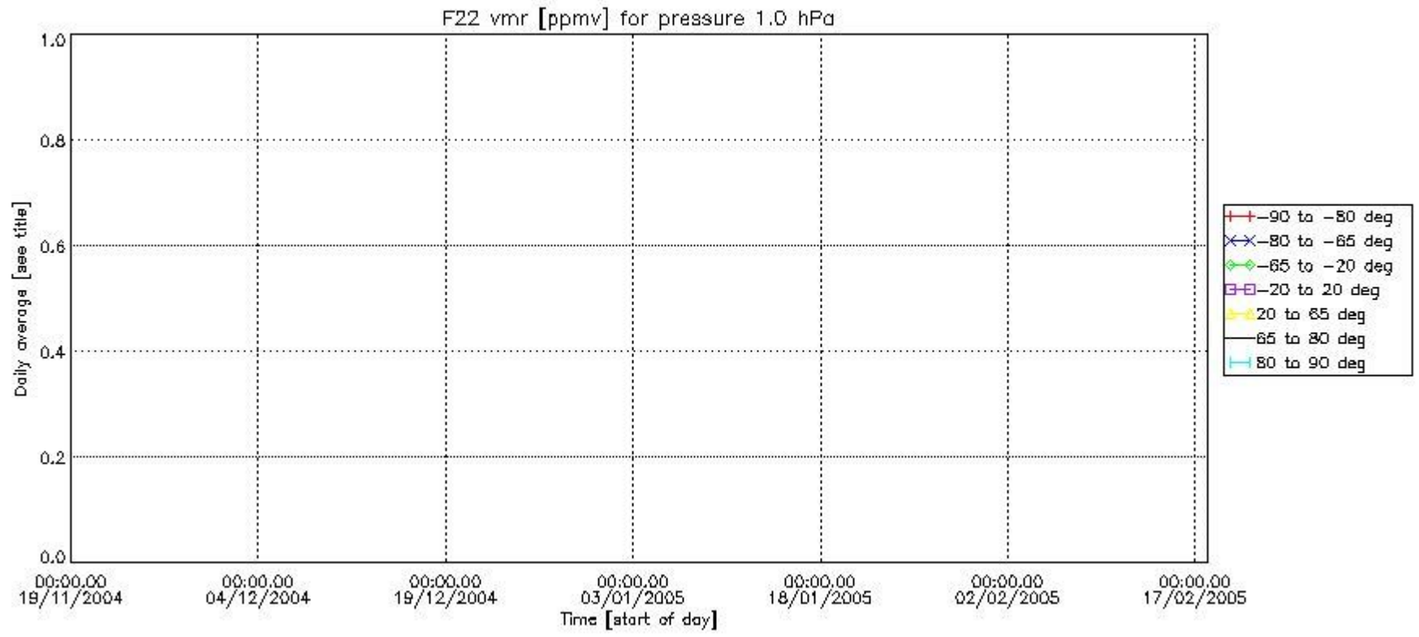


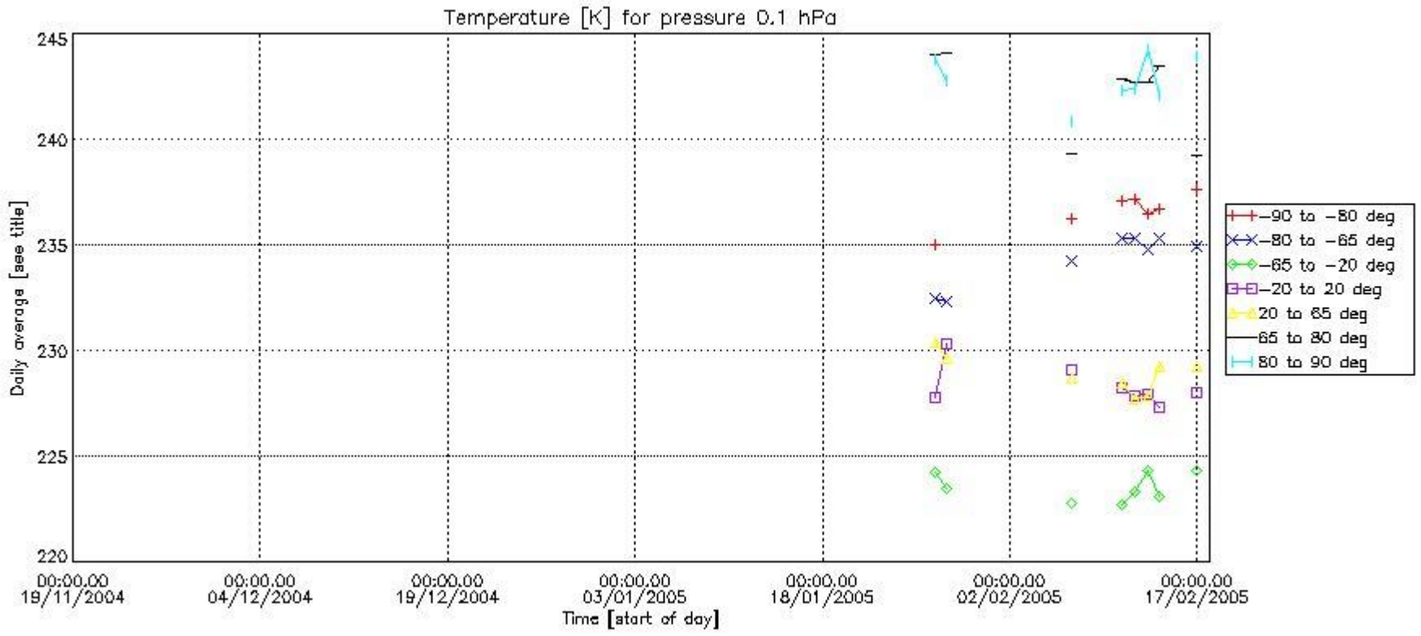

COF2 vmr [ppmv] for pressure 1.0 hPa
Daily average [see title]
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
−0.0001
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

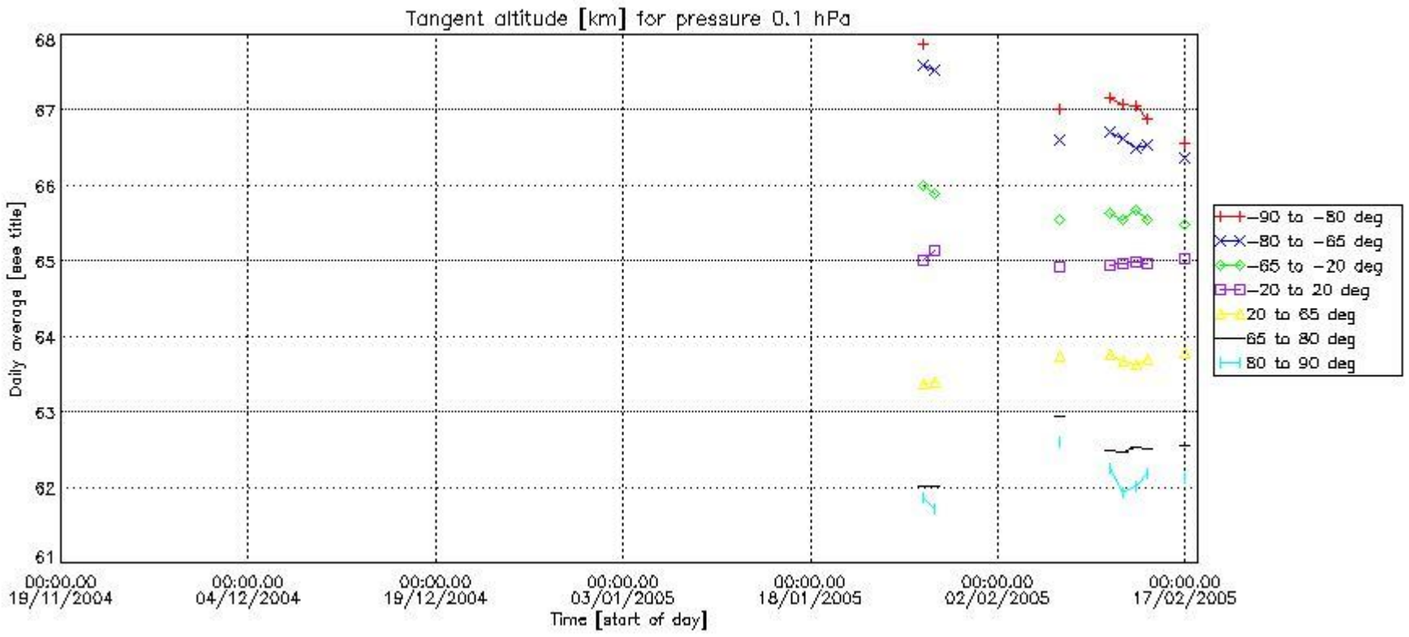

CCL4 vmr [ppmv] for pressure 1.0 hPa
Daily average [see title]
1.0
0.8
0.6
0.4
0.2
0.0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


HCN vmr [ppmv] for pressure 1.0 hPa
Daily average [see title]
1.0
0.8
0.6
0.4
0.2
0.0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

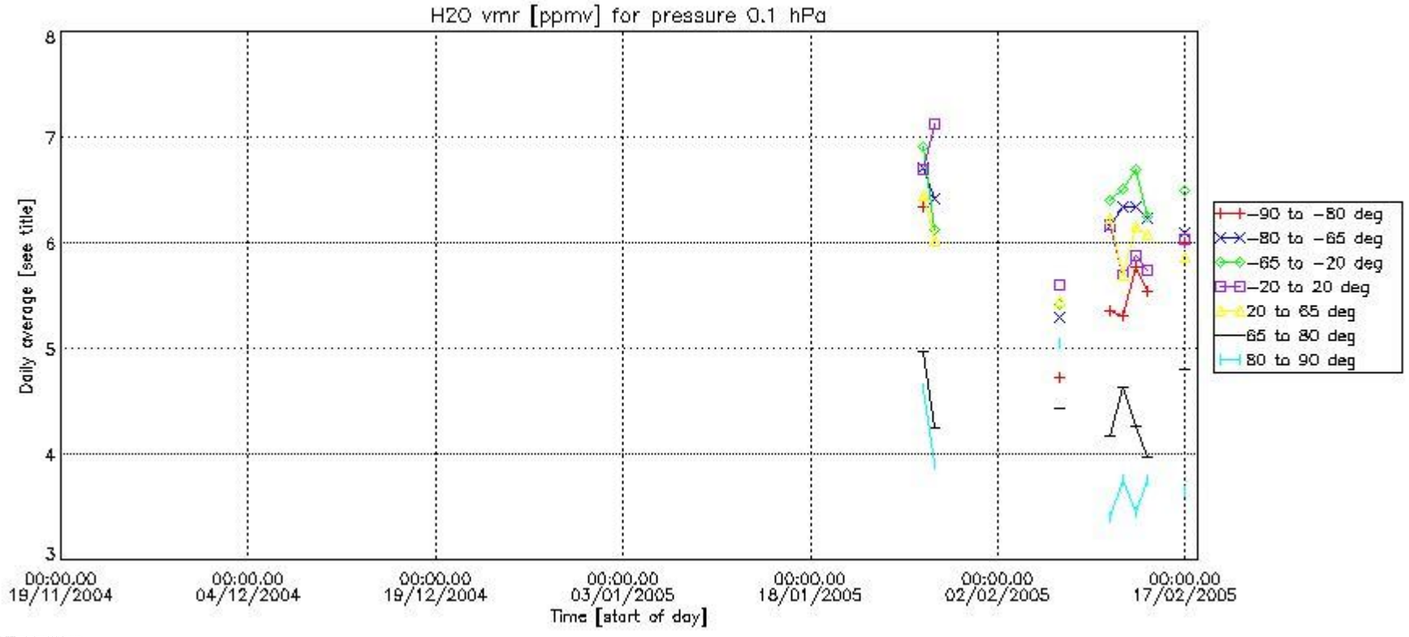

F14 vmr [ppmv] for pressure 1.0 hPa
Daily average [see title]
1.0
0.8
0.6
0.4
0.2
0.0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

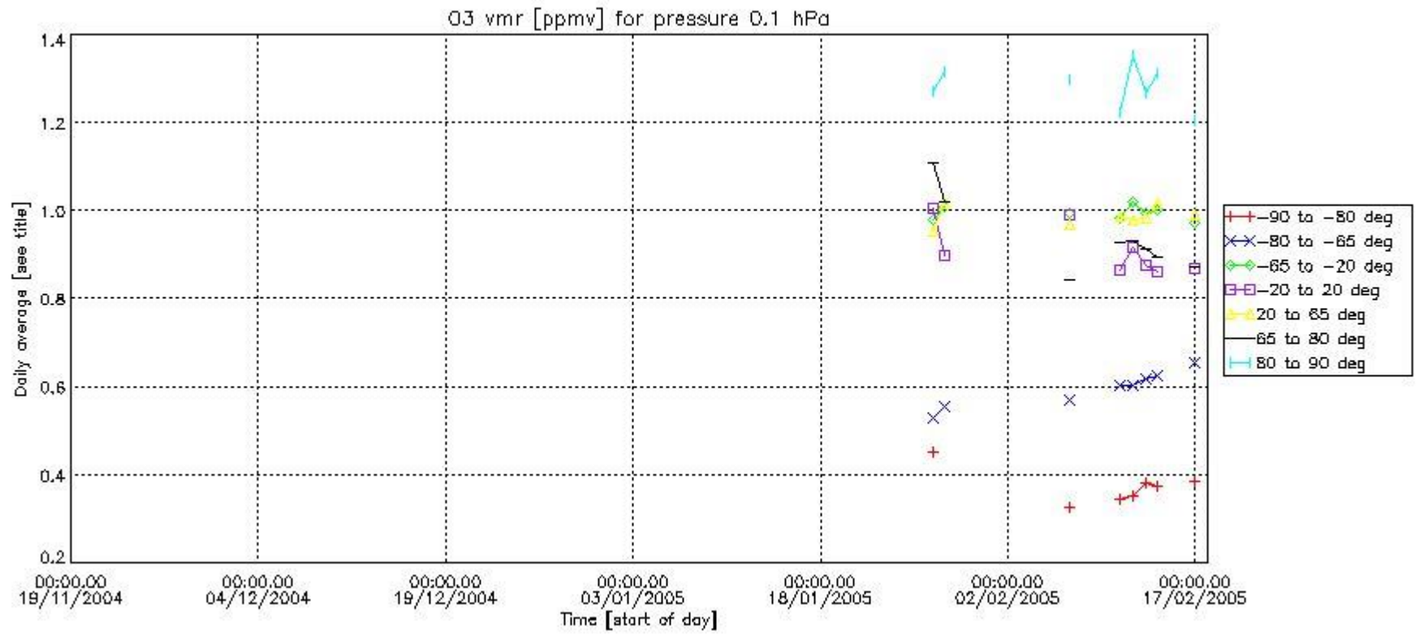

F22 vmr [ppmv] for pressure 1.0 hPa
Daily average [see title]
1.0
0.8
0.6
0.4
0.2
0.0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


Temperature [K] for pressure 0.1 hPa
Daily average [see title]
245
240
235
230
225
220
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

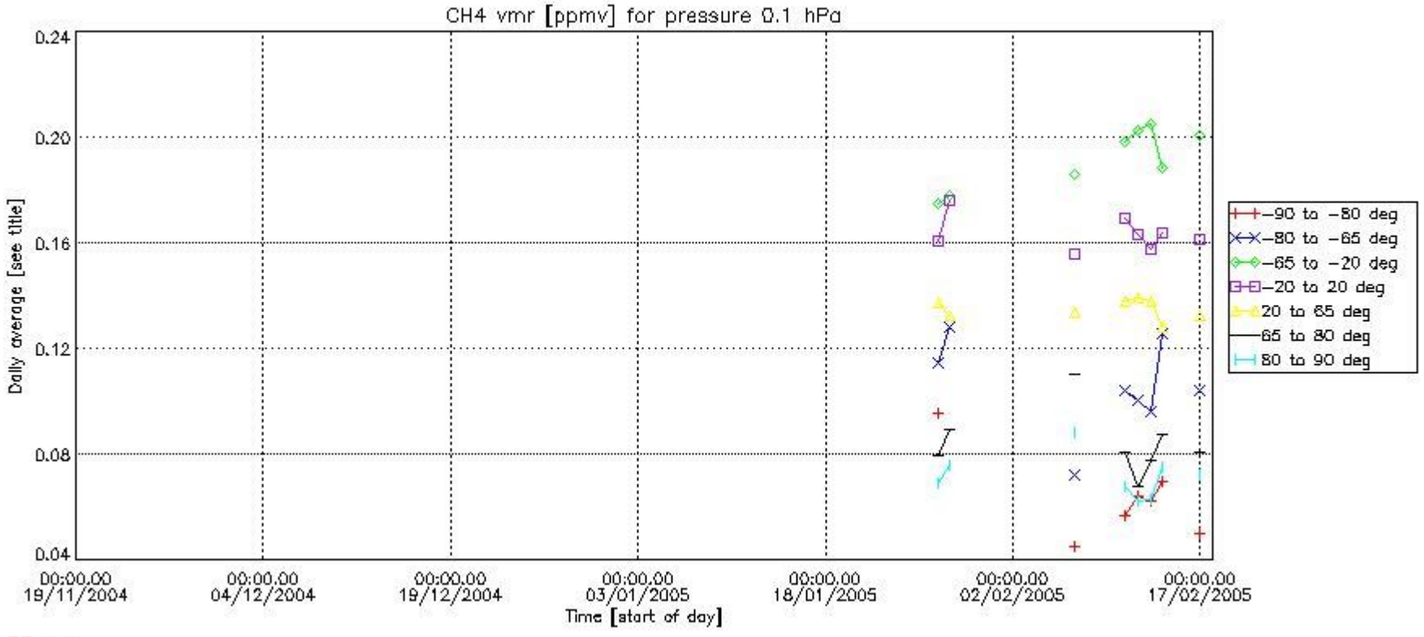


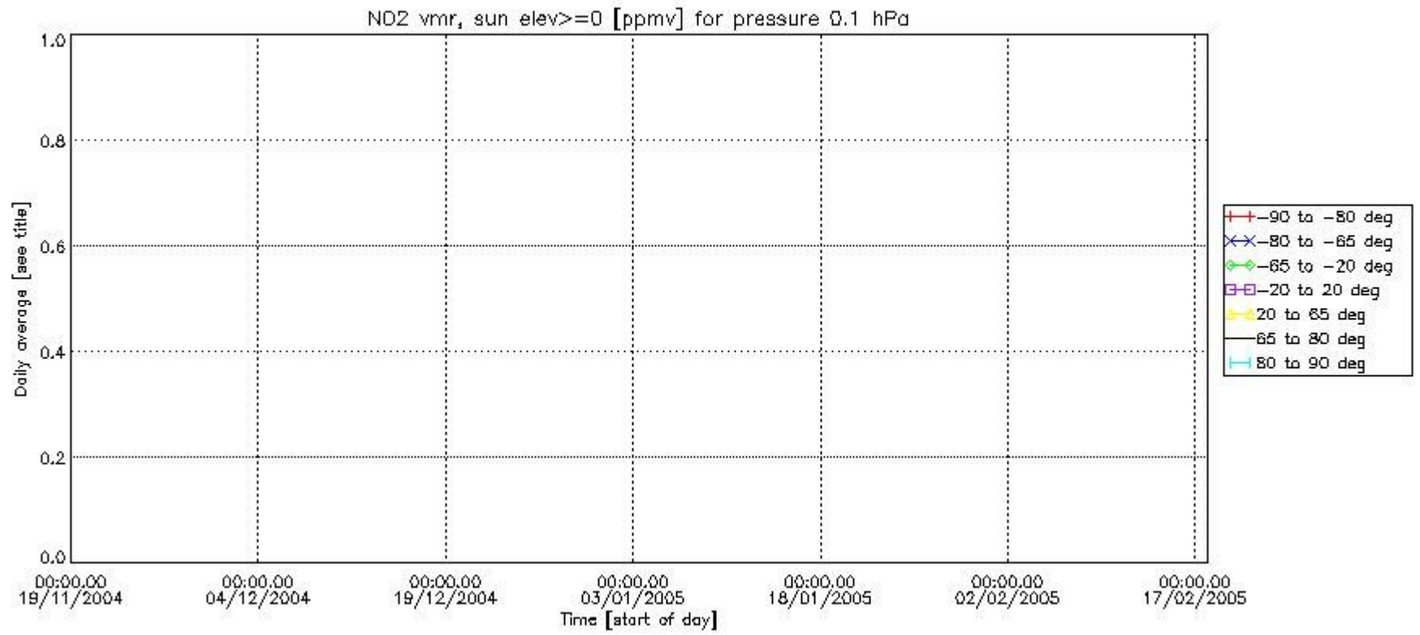
Note: in the following plot, values for H2O outside the range of 0.001 to 100,000 ppmv have been excluded in the averages.



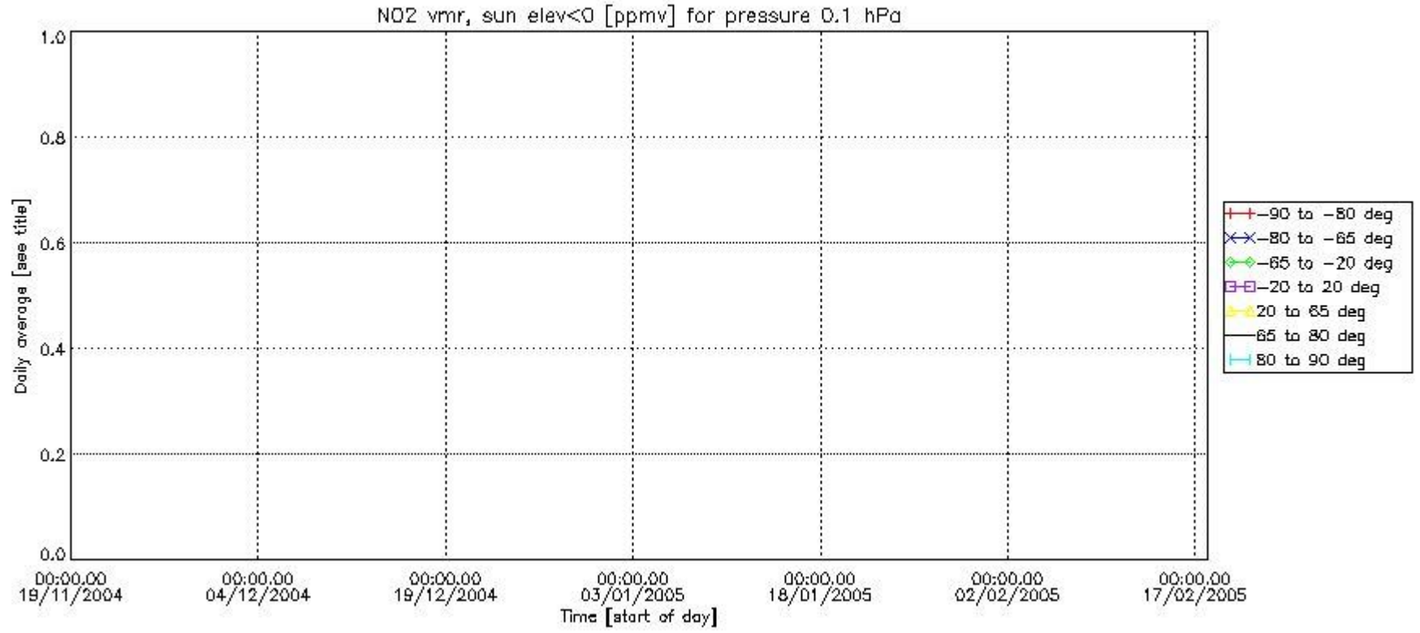


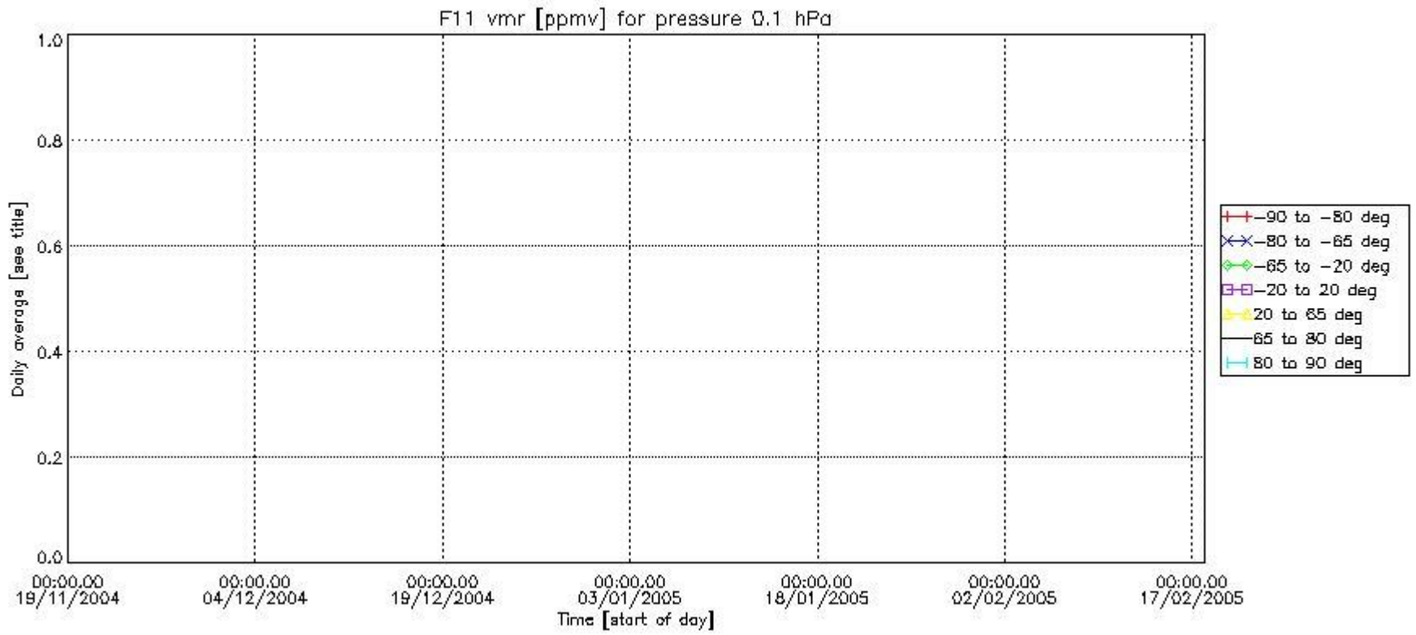
Note: in the following plot, values for CH4 outside the range of 0.000 to 0.300 ppmv have been excluded in the averages.



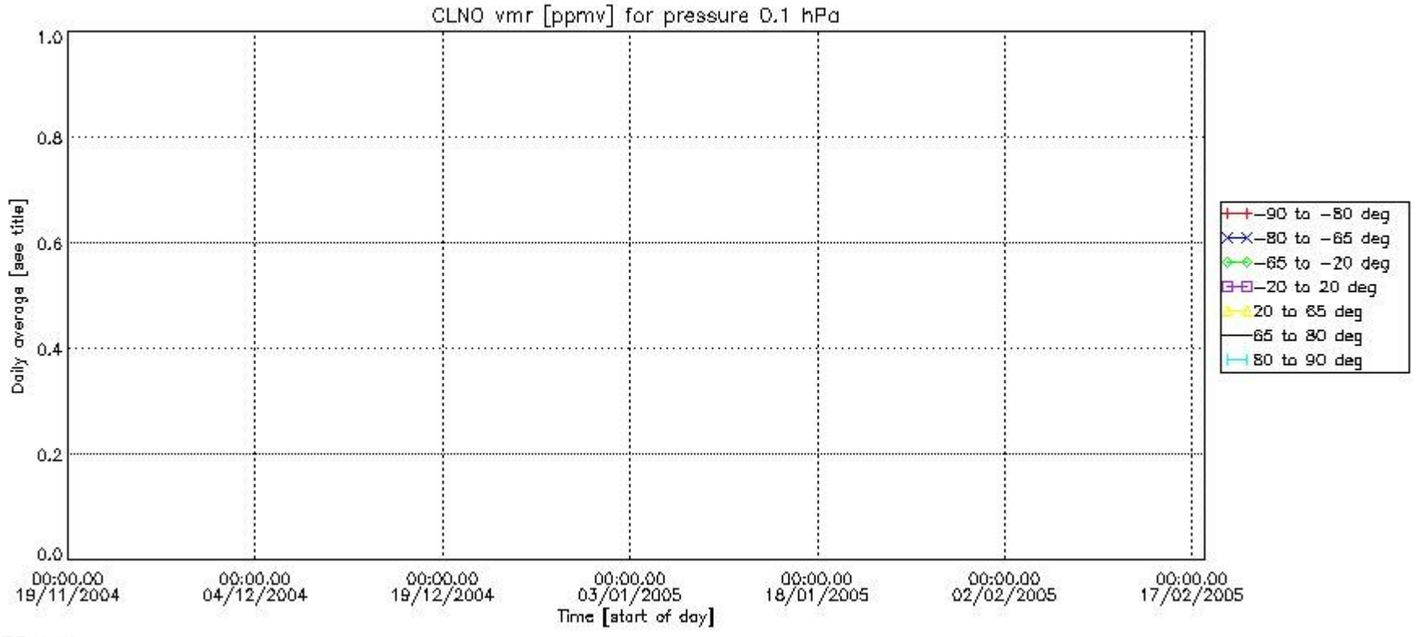


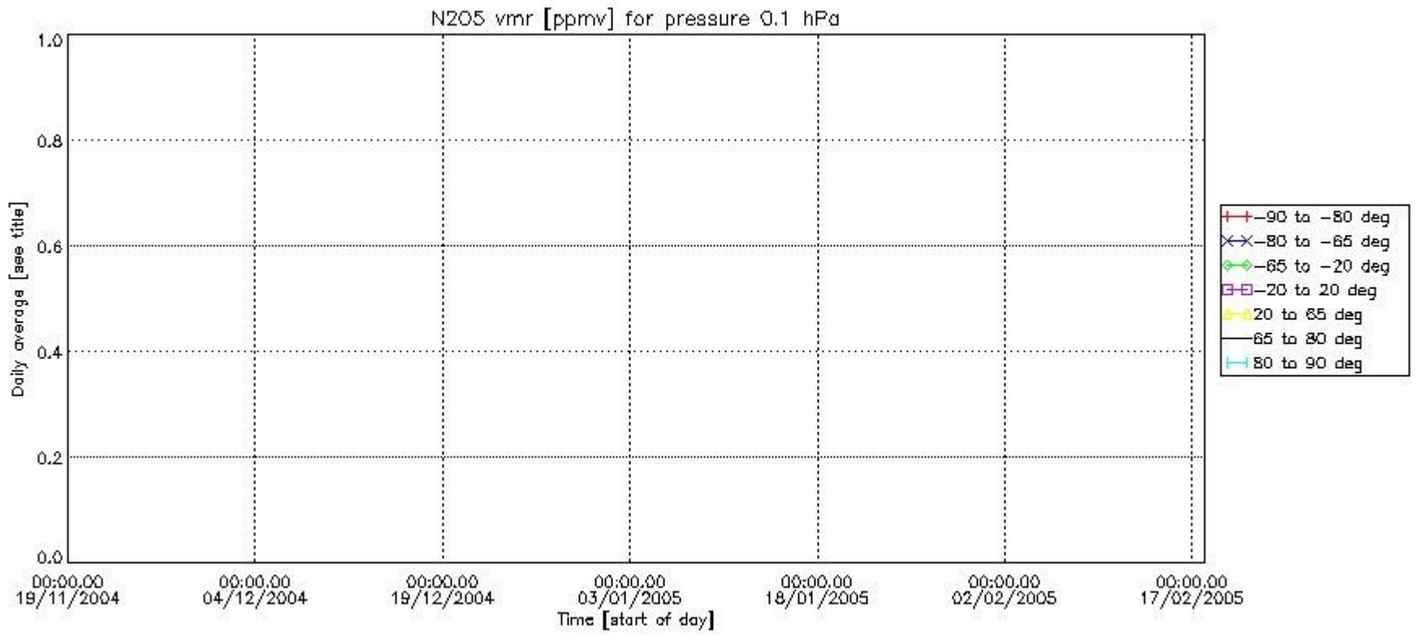
Note: in the following plot, values for NO2 outside the range of 0.000 to 1.000 ppmv have been excluded in the averages.



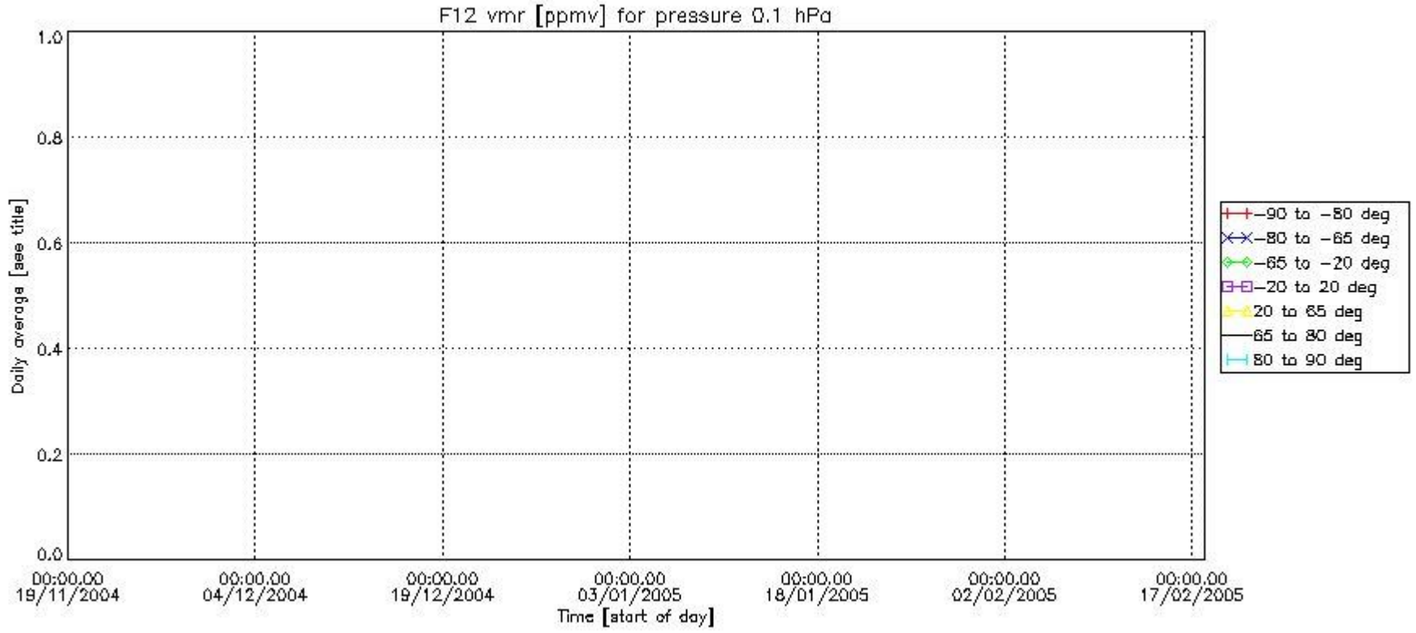


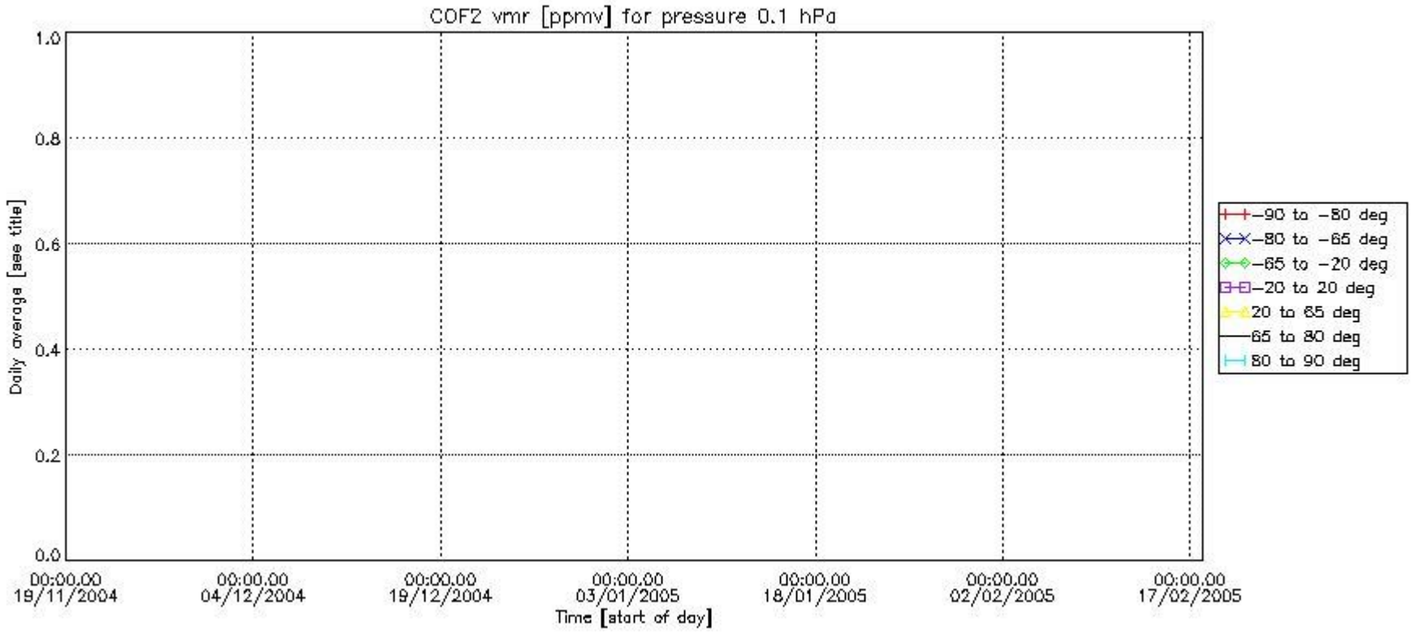
Note: in the following plot, values less than 0.000 outside the range of 0.000 to 1.000 ppmv have been excluded in the averages.

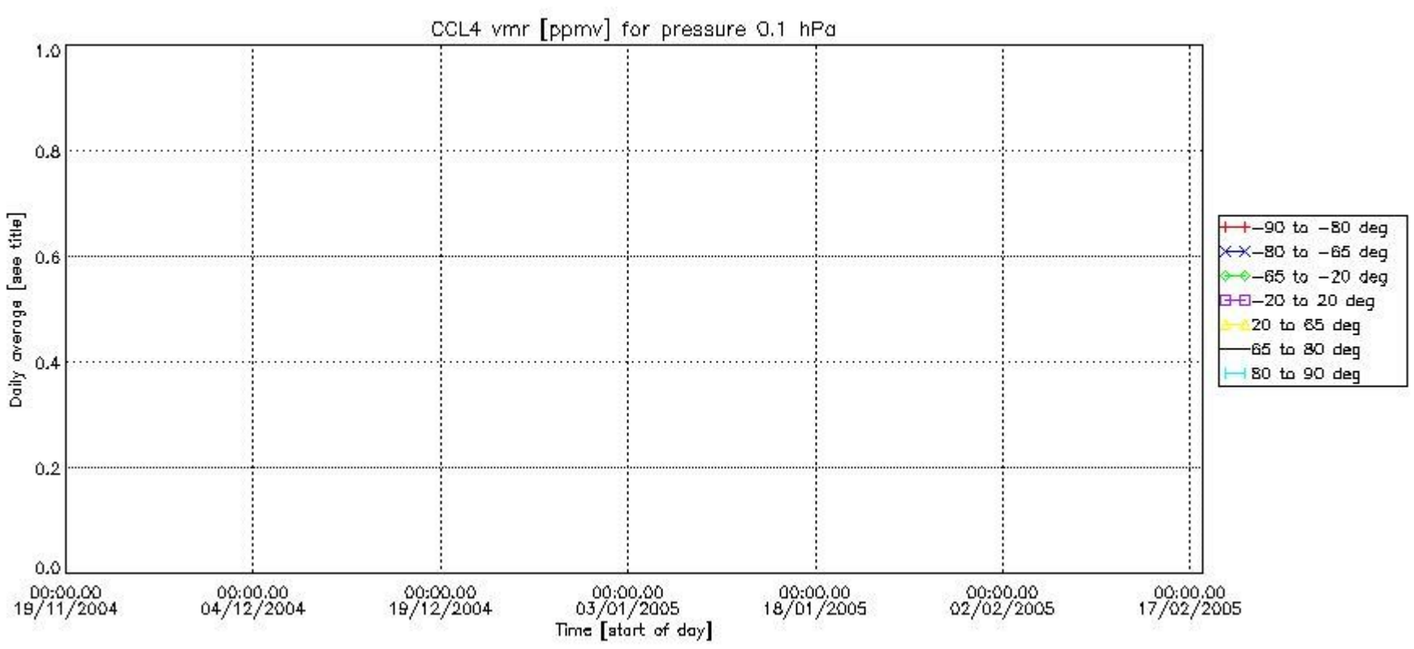


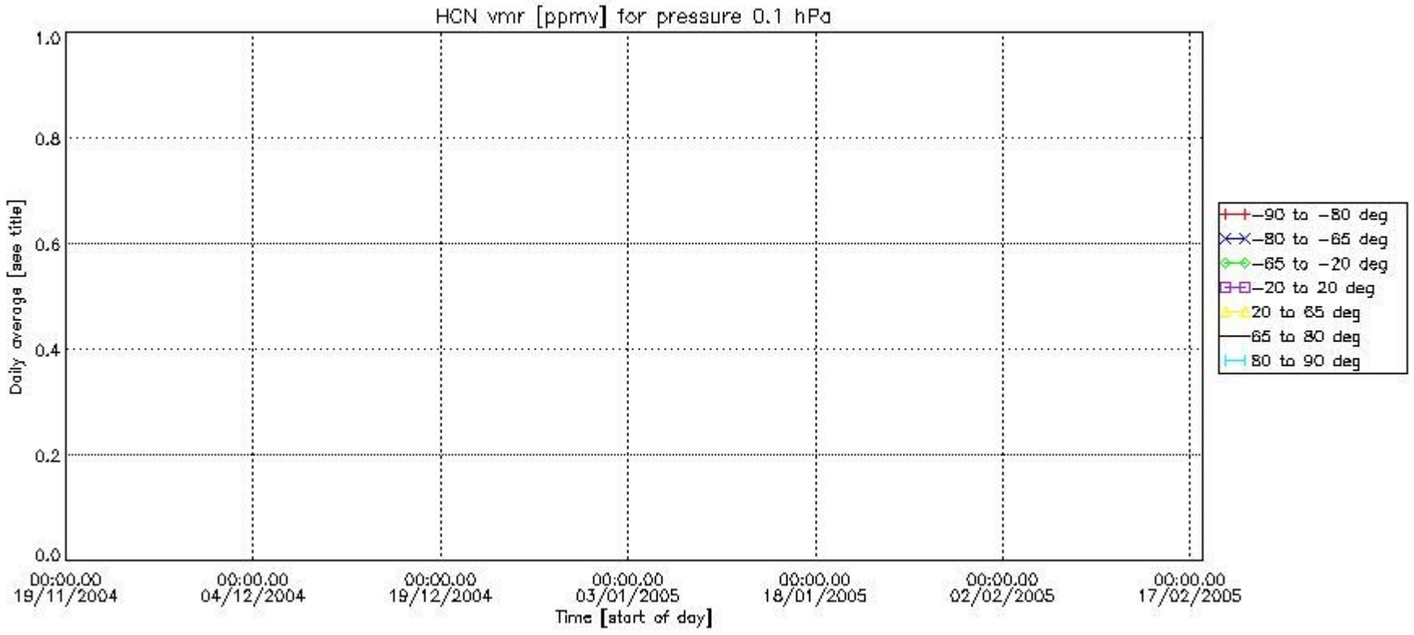


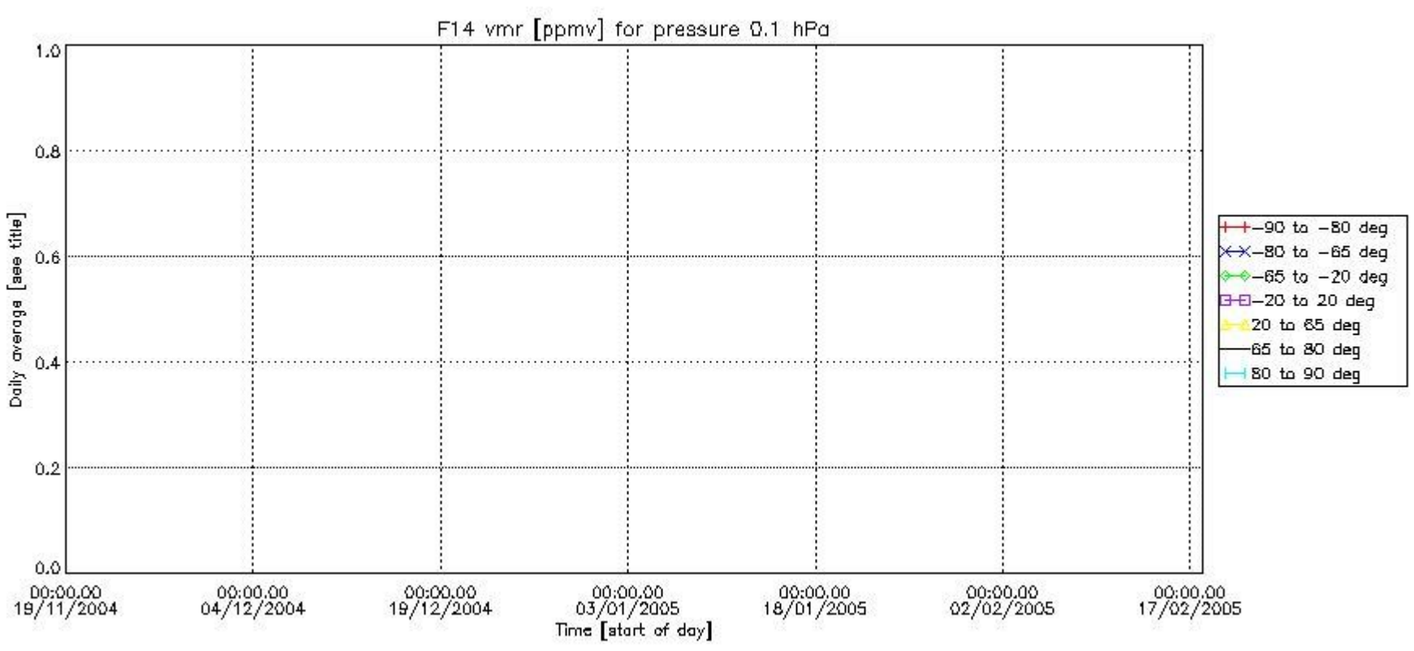
Note: In the following plot, values for F12 outside the range of 0.000 to 1.000 ppmv have been excluded in the averages.

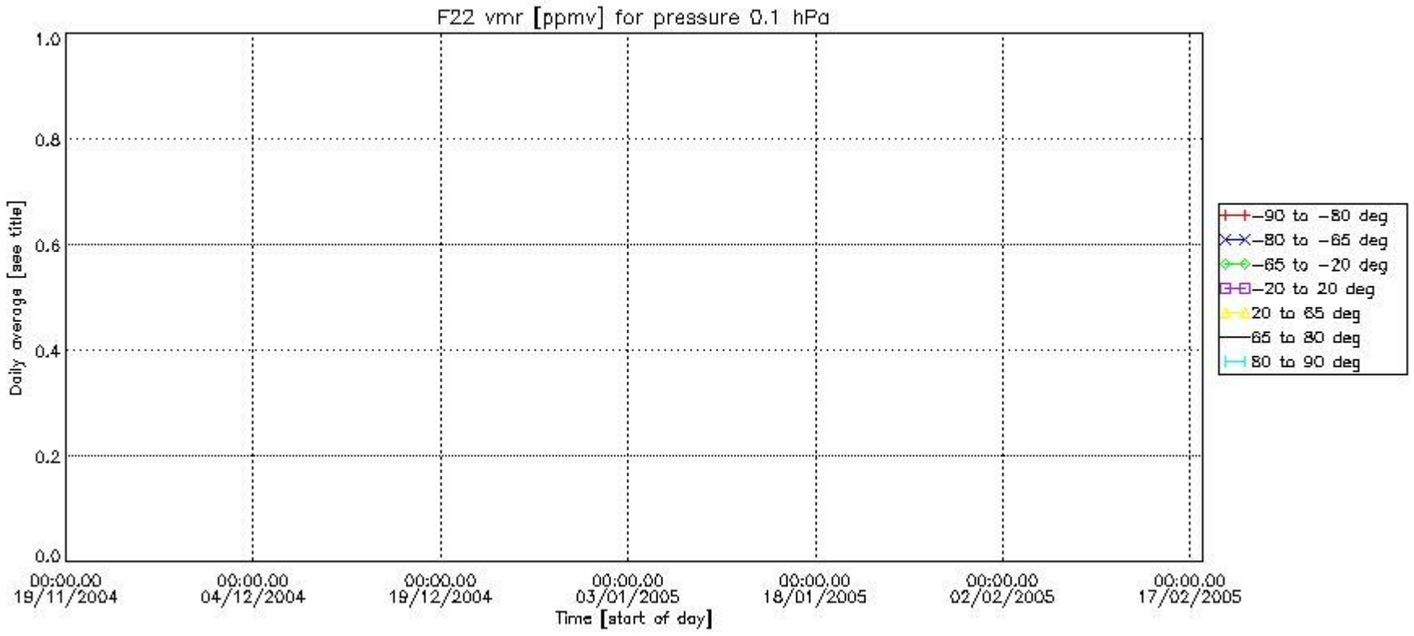



COF2 vmr [ppmv] for pressure 0.1 hPa
Daily average [see title]
1.0
0.8
0.6
0.4
0.2
0.0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

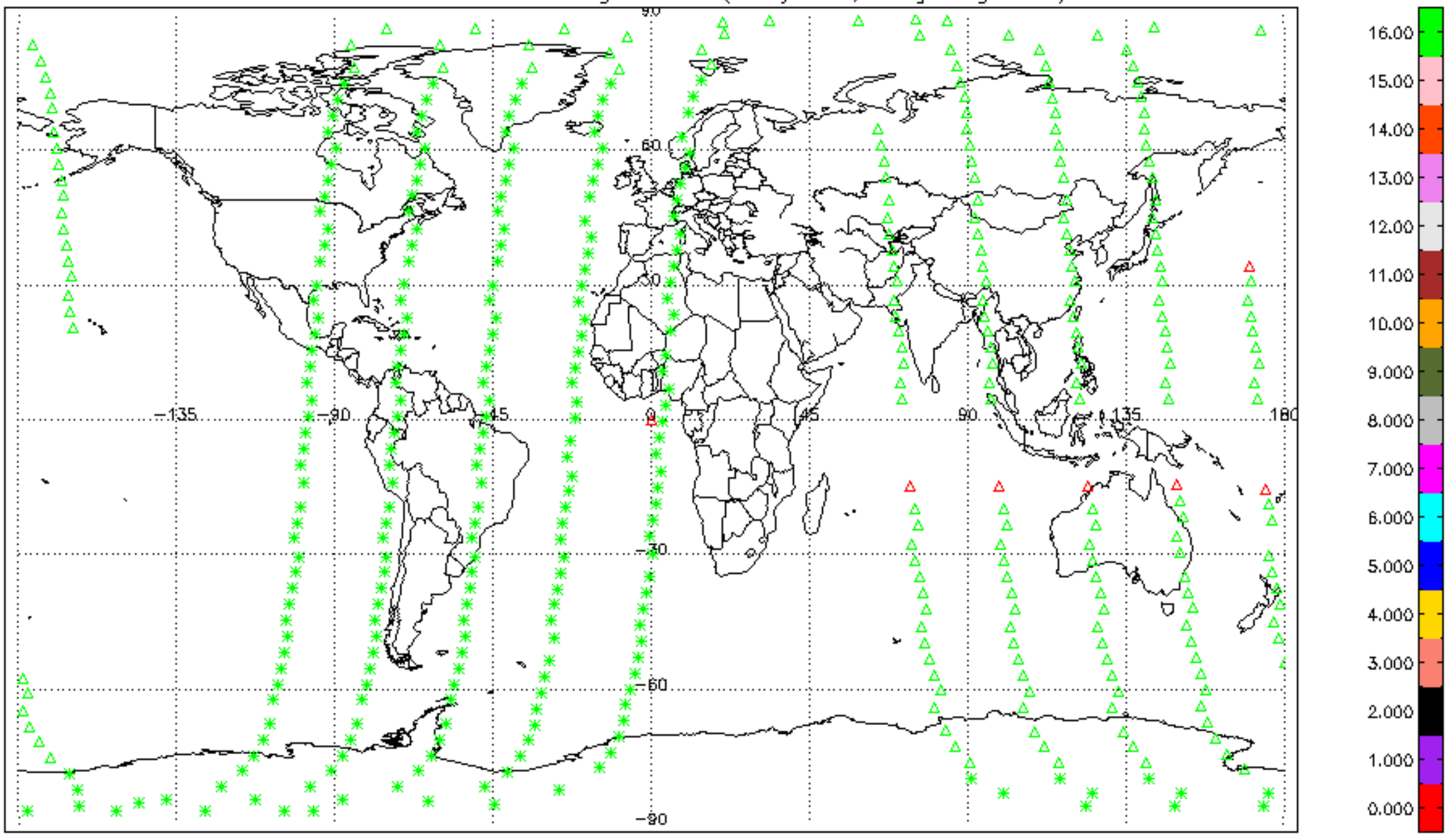

CCL4 vmr [ppmv] for pressure 0.1 hPa
Daily average [see title]
1.0
0.8
0.6
0.4
0.2
0.0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

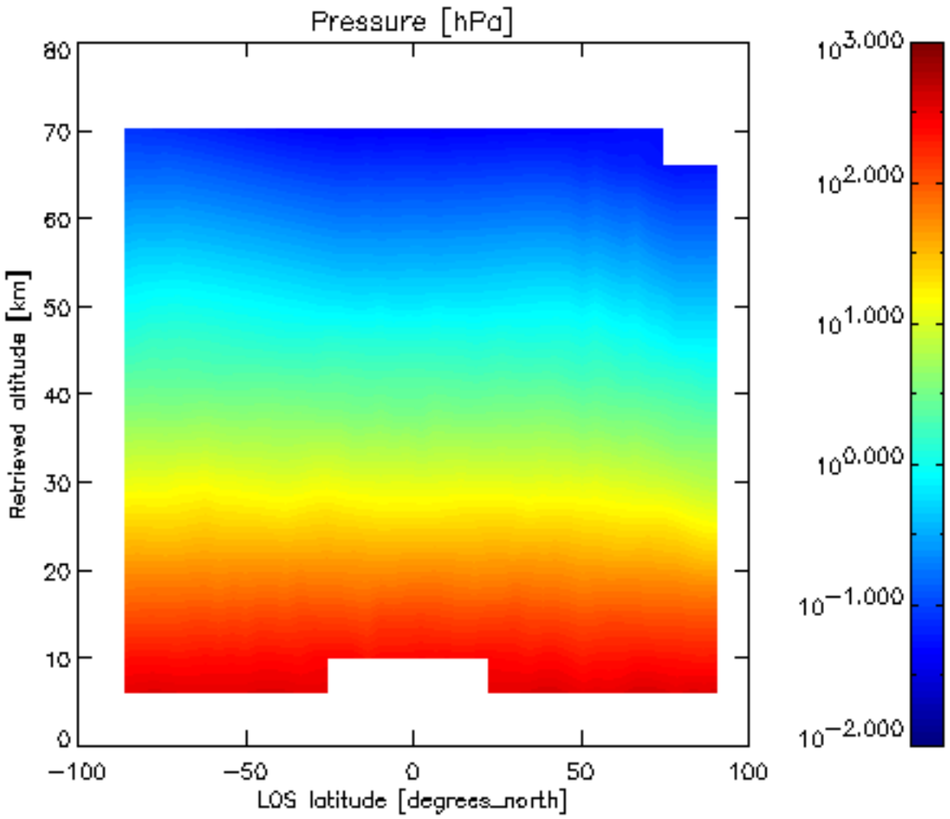

HCN vmr [ppmv] for pressure 0.1 hPa
Daily average [see title]
1.0
0.8
0.6
0.4
0.2
0.0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

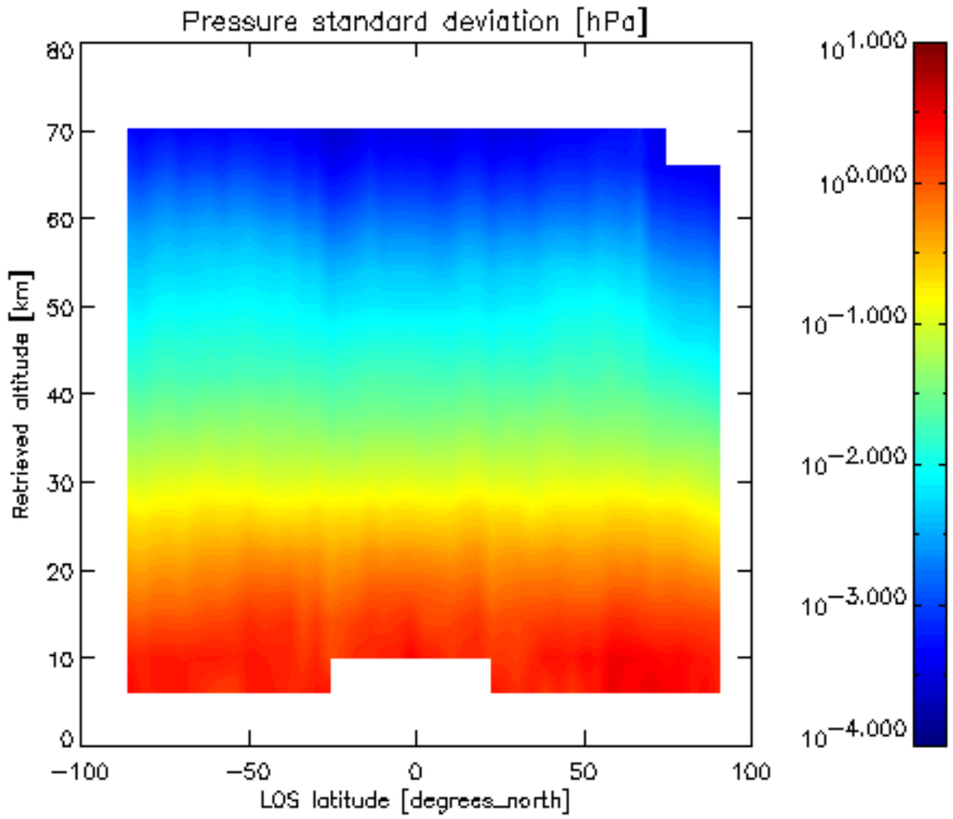

F14 vmr [ppmv] for pressure 0.1 hPa
Daily average [see title]
1.0
0.8
0.6
0.4
0.2
0.0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

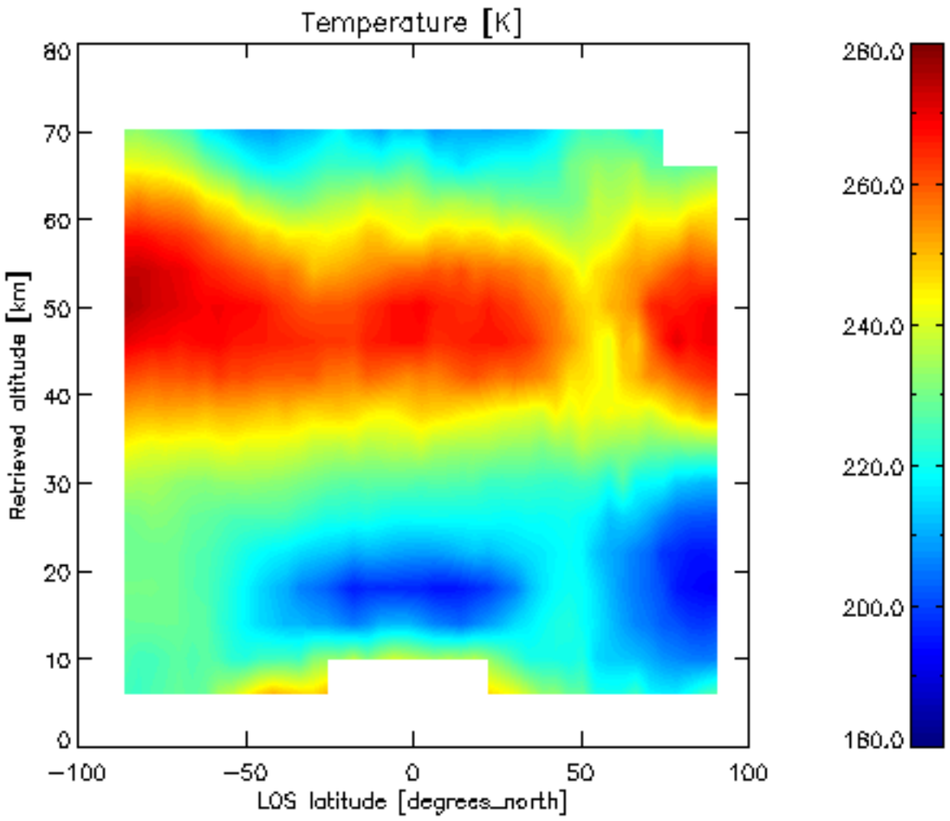

F22 vmr [ppmv] for pressure 0.1 hPa
Daily average [see title]
1.0
0.8
0.6
0.4
0.2
0.0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

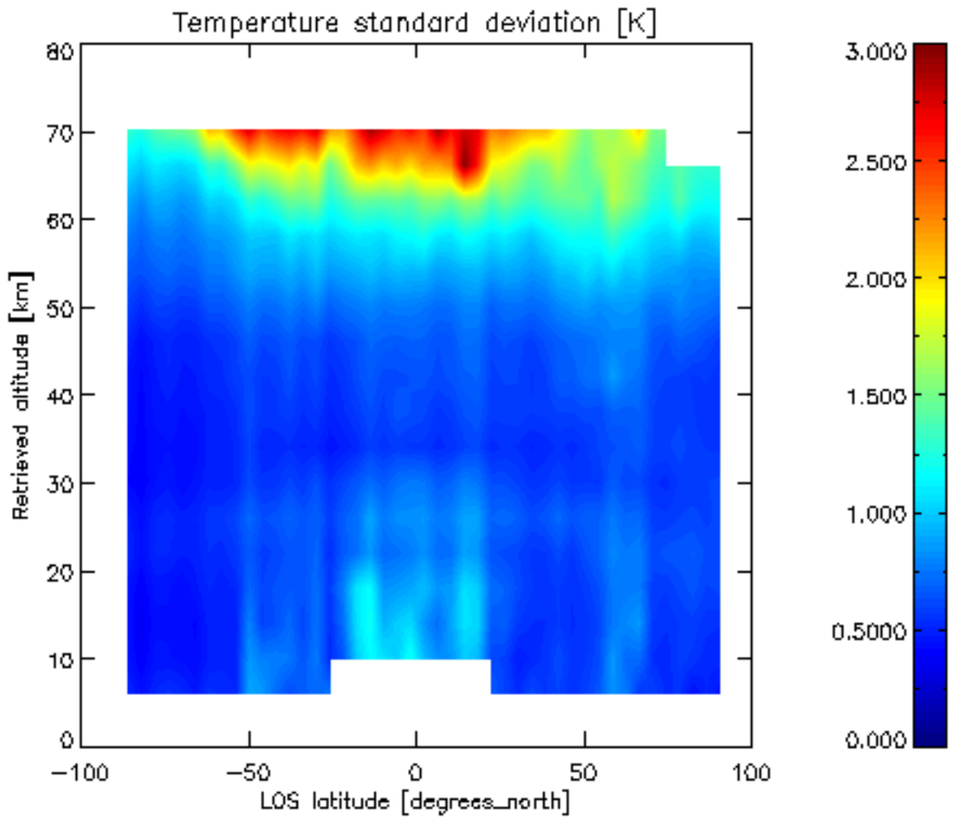
Number of successful retrievals vs. geolocation (*=day side , triangle=night side).

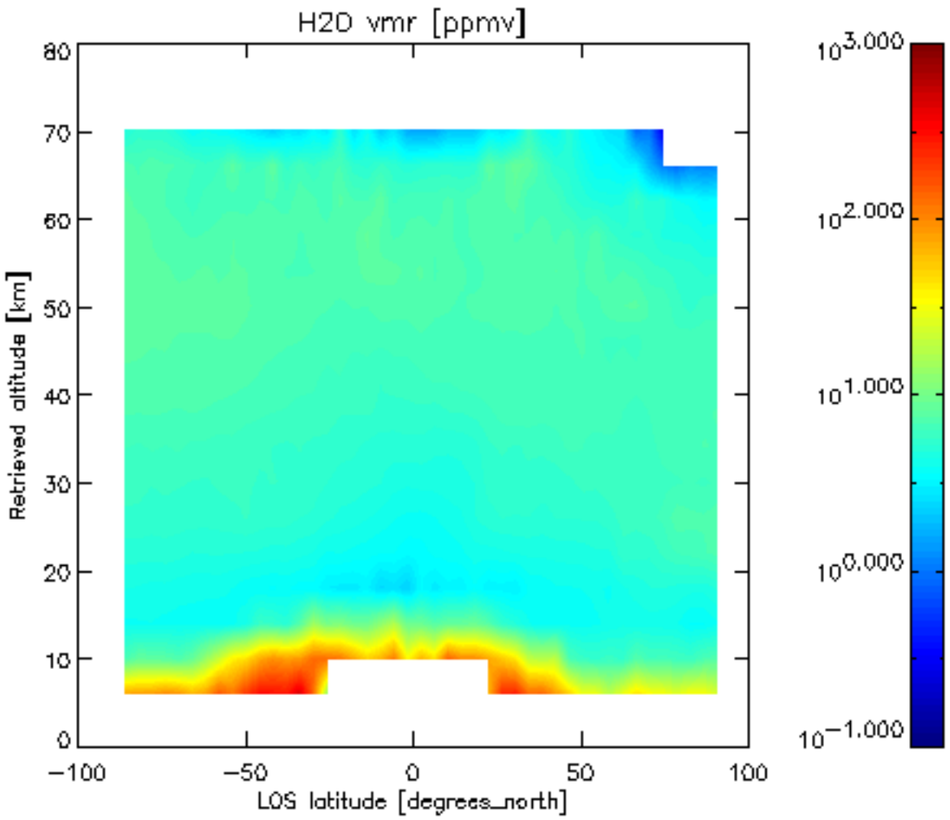


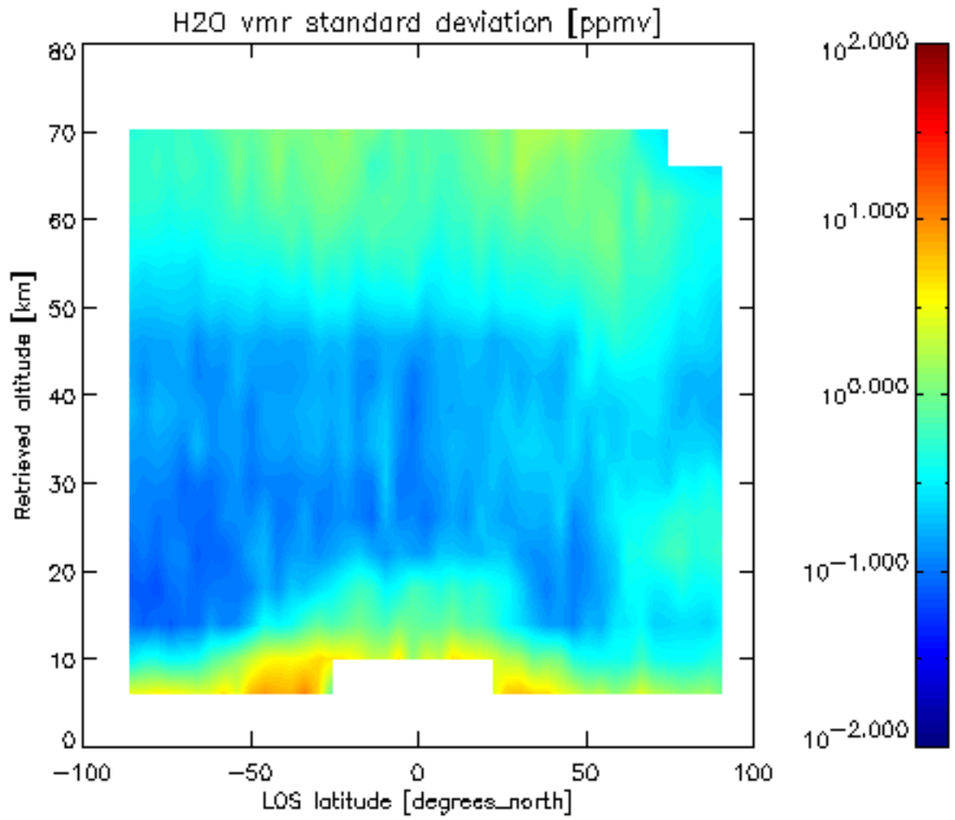

Pressure [hPa]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
$10^{3.000}$
$10^{2.000}$
$10^{1.000}$
$10^{0.000}$
$10^{-1.000}$
$10^{-2.000}$

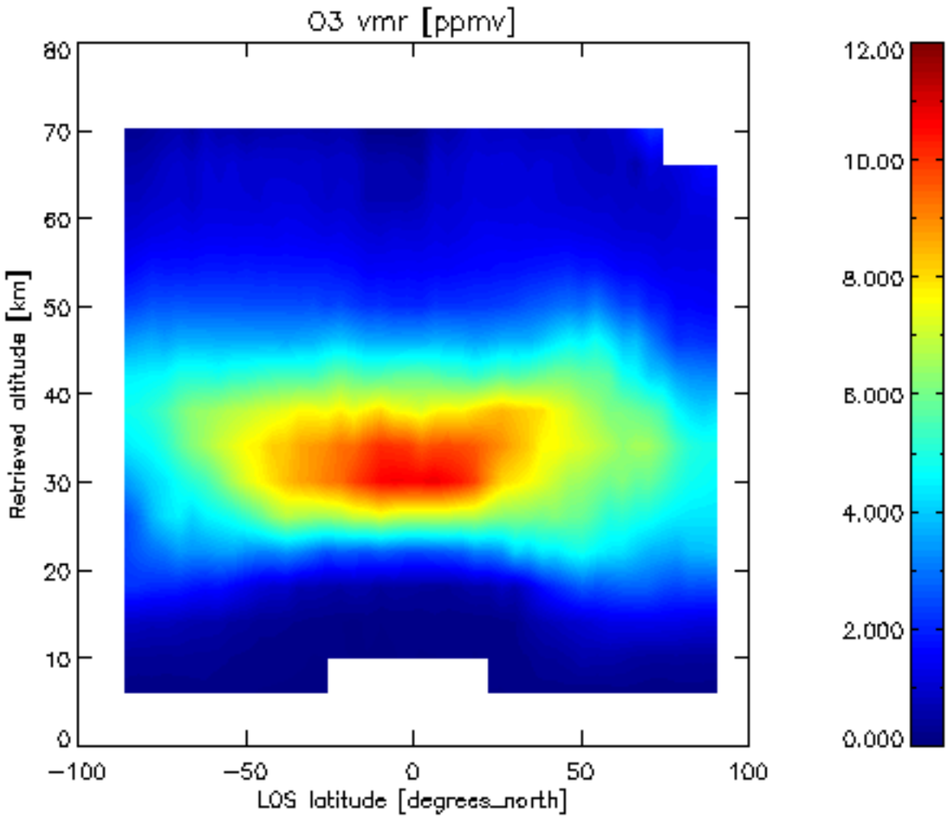

Pressure standard deviation [hPa]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
$10^{1.000}$
$10^{0.000}$
$10^{-1.000}$
$10^{-2.000}$
$10^{-3.000}$
$10^{-4.000}$

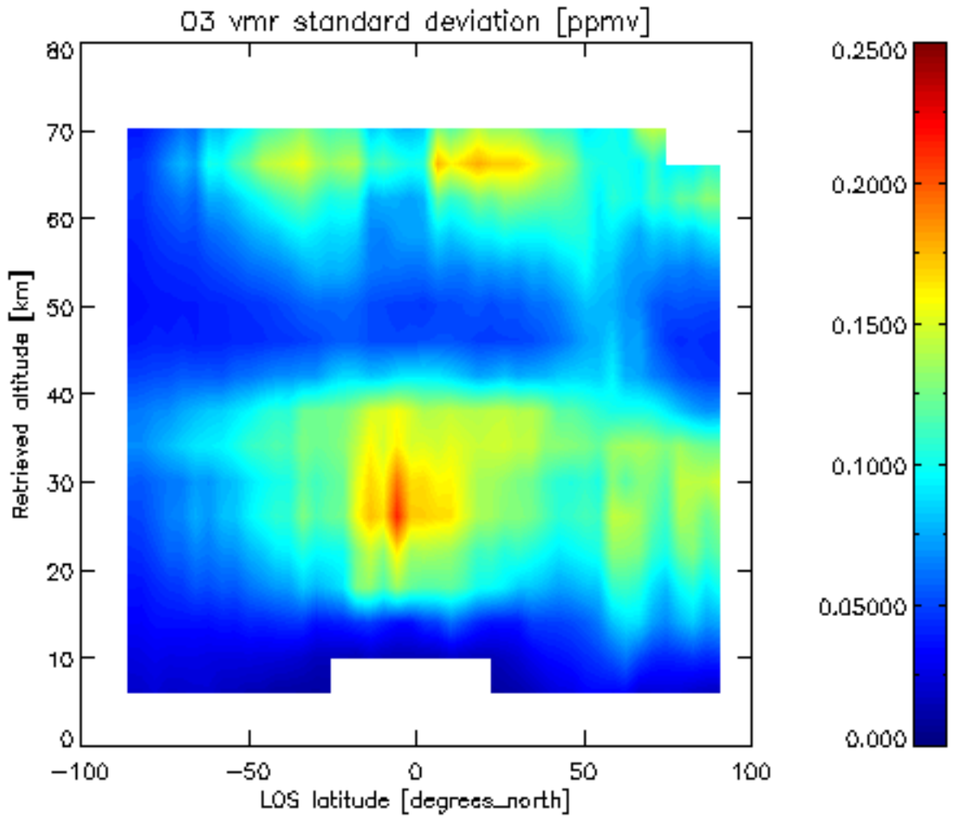

Temperature [K]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
280.0
260.0
240.0
220.0
200.0
180.0

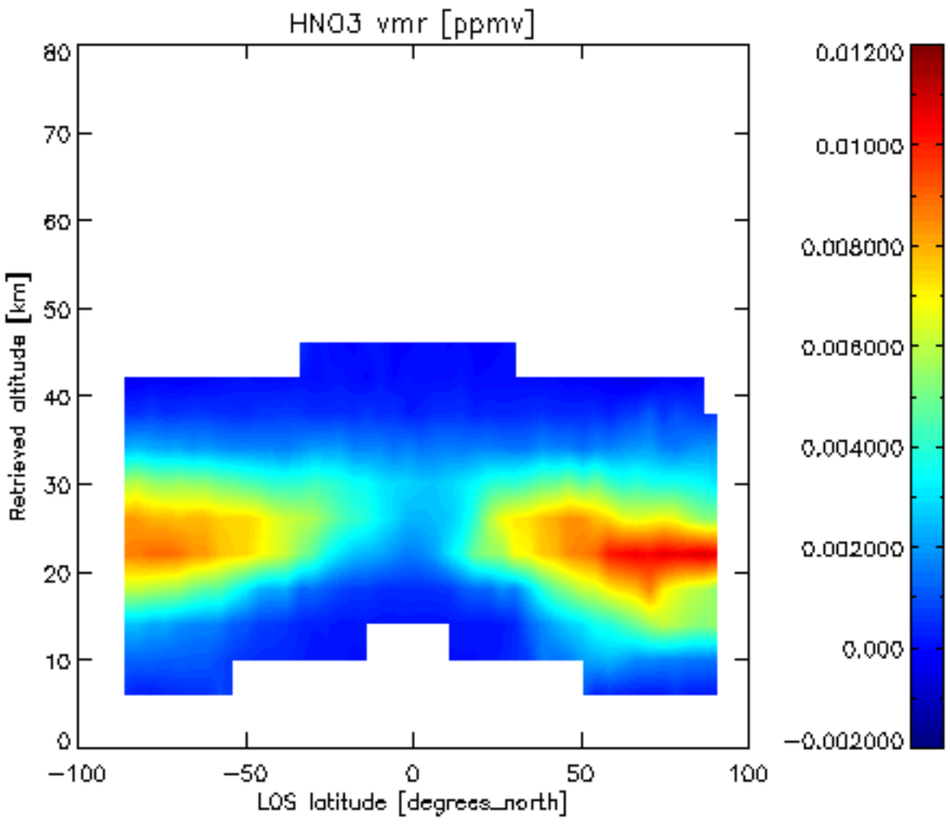

Temperature standard deviation [K]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
3.000
2.500
2.000
1.500
1.000
0.5000
0.000

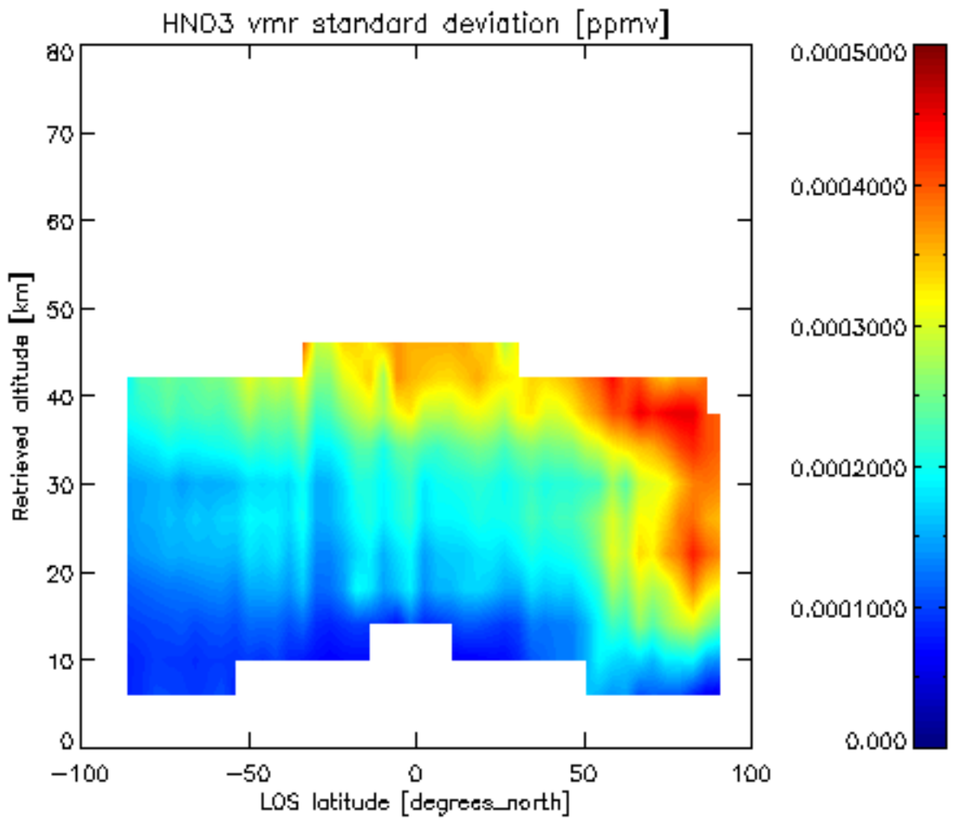

H2O vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
$10^{3.000}$
$10^{2.000}$
$10^{1.000}$
$10^{0.000}$
$10^{-1.000}$

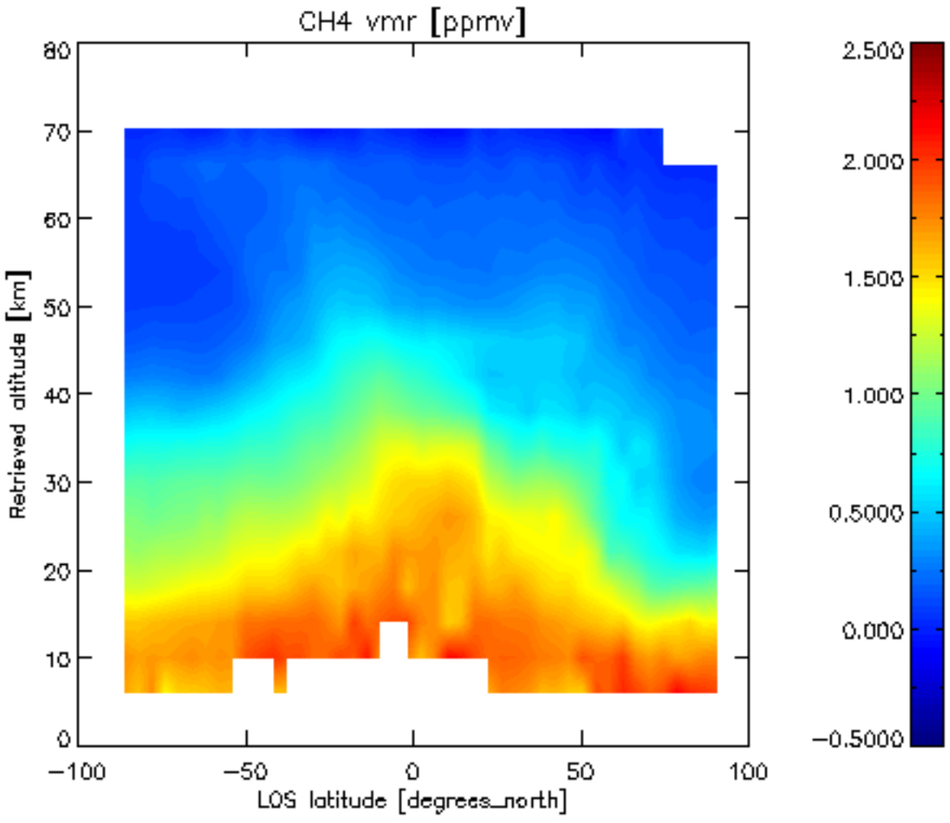

H2O vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
$10^{2.000}$
$10^{1.000}$
$10^{0.000}$
$10^{-1.000}$
$10^{-2.000}$

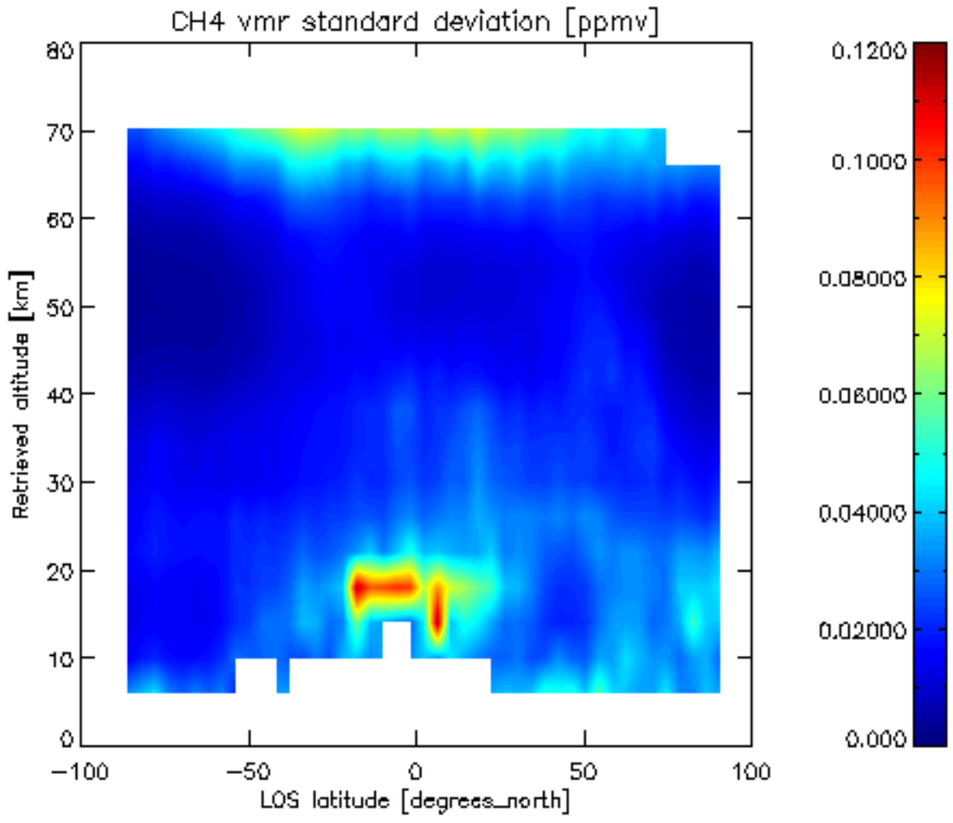

O3 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
12.00
10.00
8.000
6.000
4.000
2.000
0.000

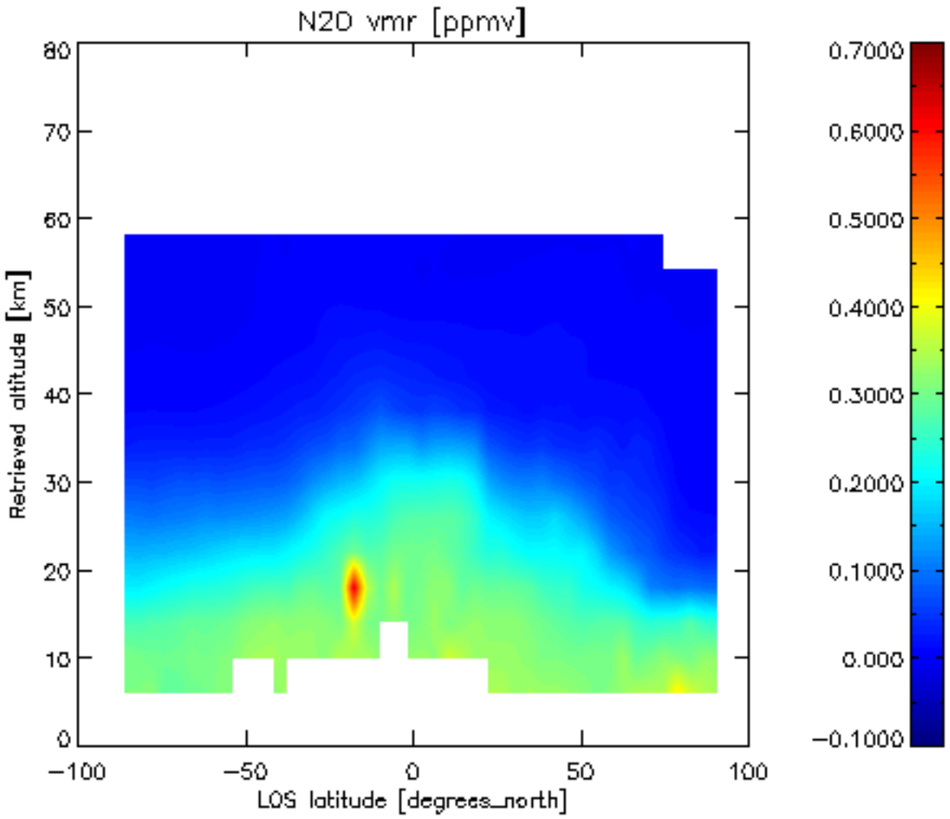

O3 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.2500
0.2000
0.1500
0.1000
0.05000
0.000

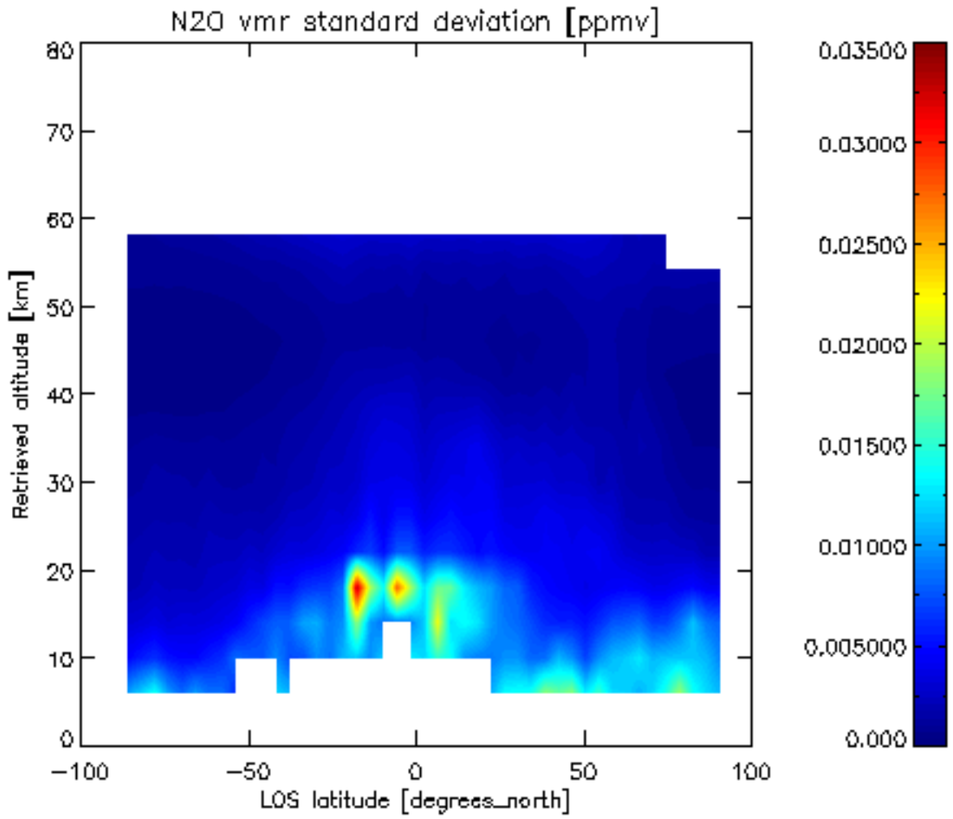

HNO3 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.01200
0.01000
0.008000
0.006000
0.004000
0.002000
0.000
−0.002000

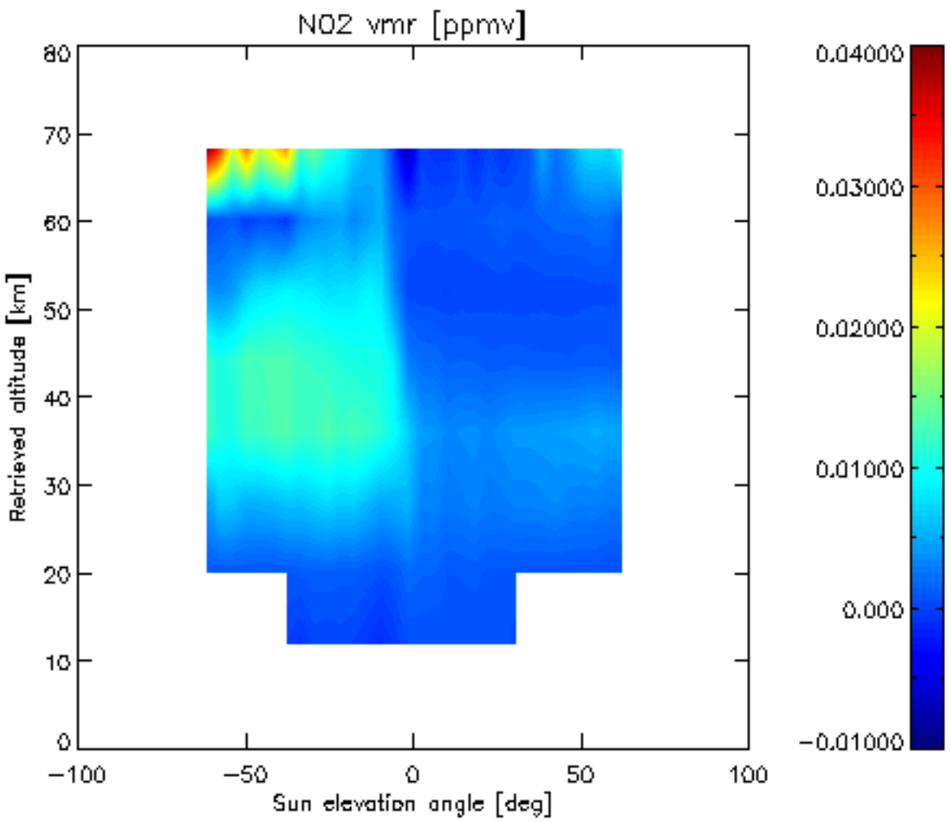

HNO3 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.0005000
0.0004000
0.0003000
0.0002000
0.0001000
0.000

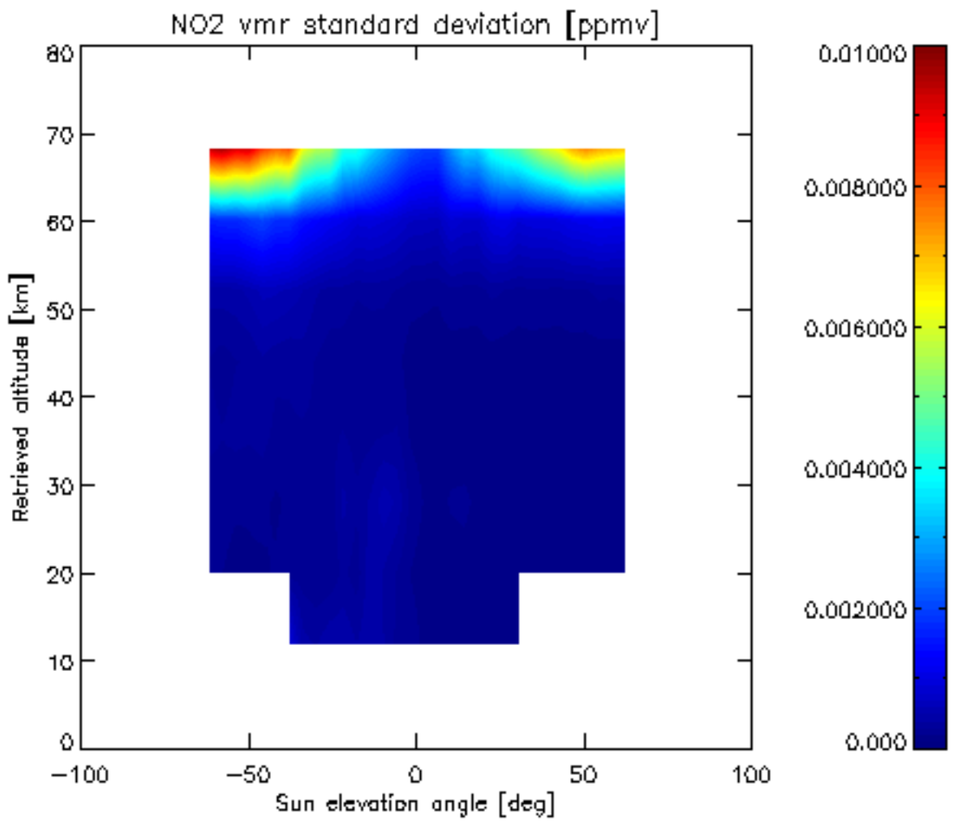

CH4 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
2.500
2.000
1.500
1.000
0.5000
0.000
−0.5000

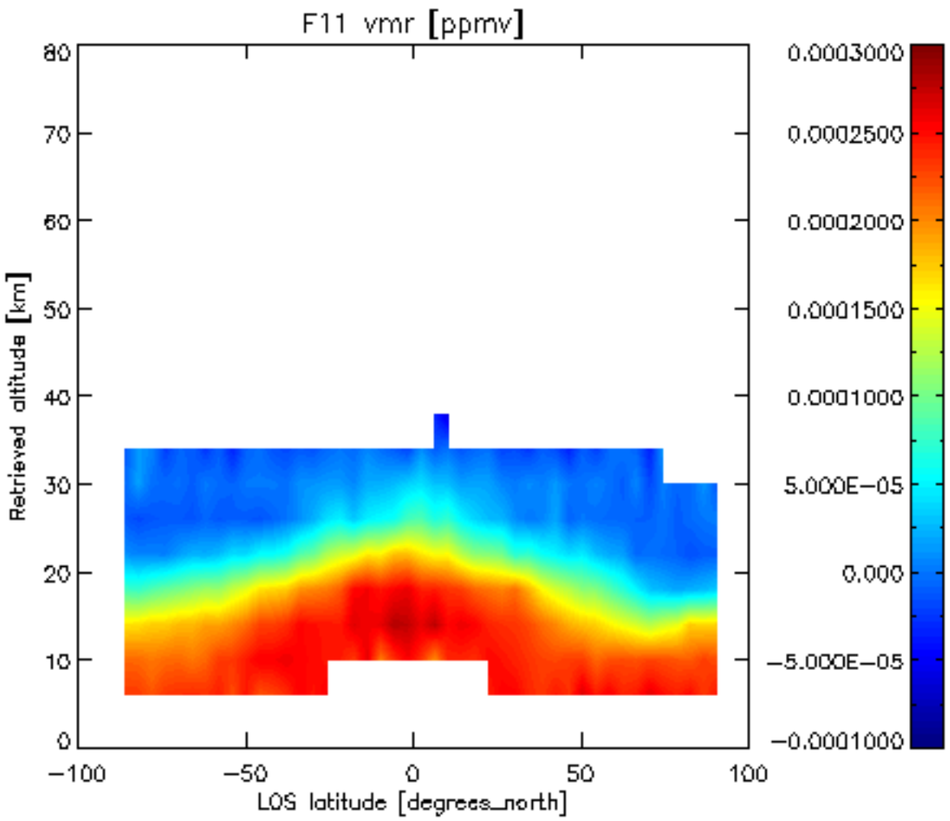

CH4 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.1200
0.1000
0.08000
0.06000
0.04000
0.02000
0.000

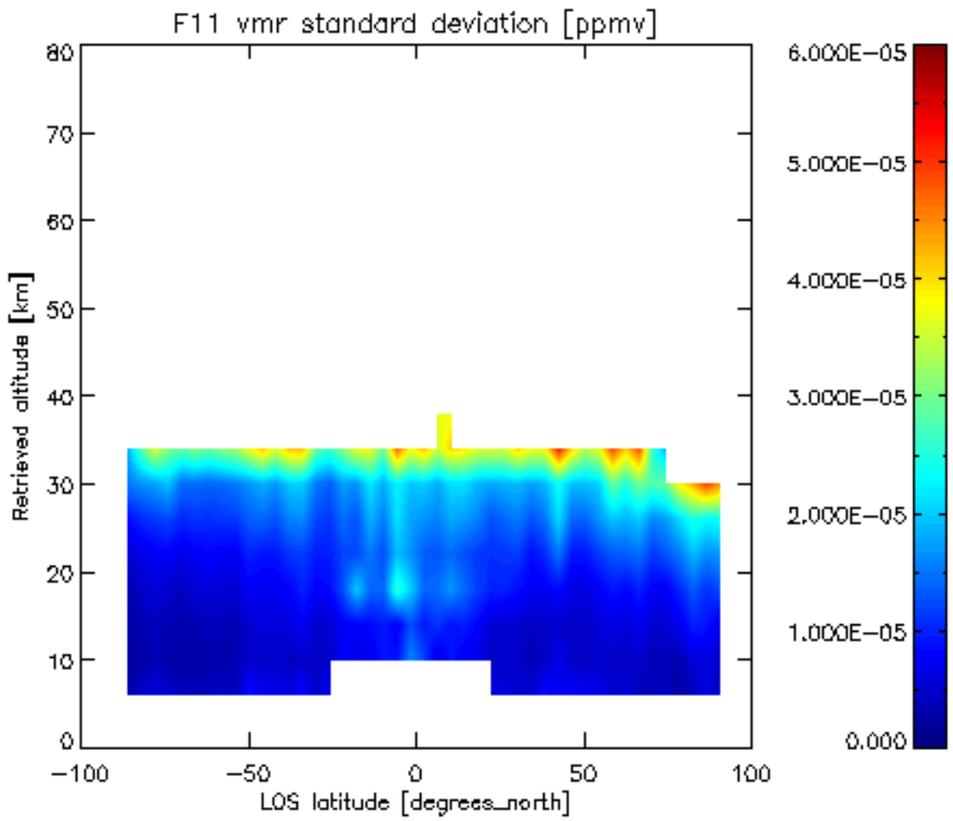

N2O vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.7000
0.6000
0.5000
0.4000
0.3000
0.2000
0.1000
0.000
−0.1000

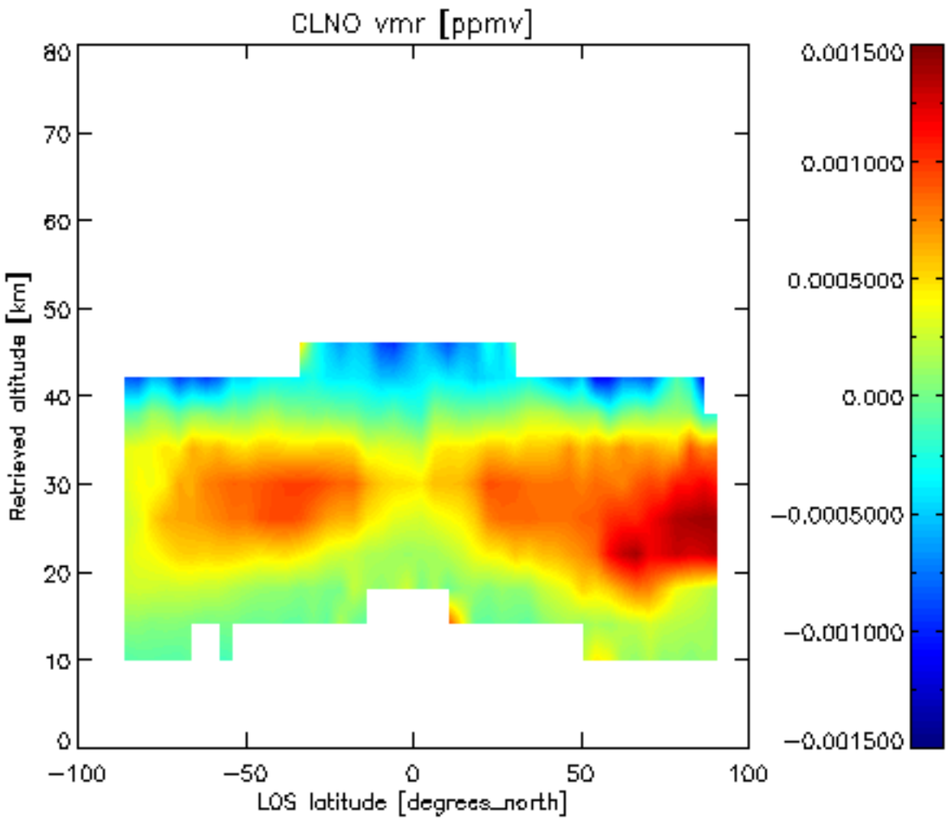

N2O vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.03500
0.03000
0.02500
0.02000
0.01500
0.01000
0.005000
0.000

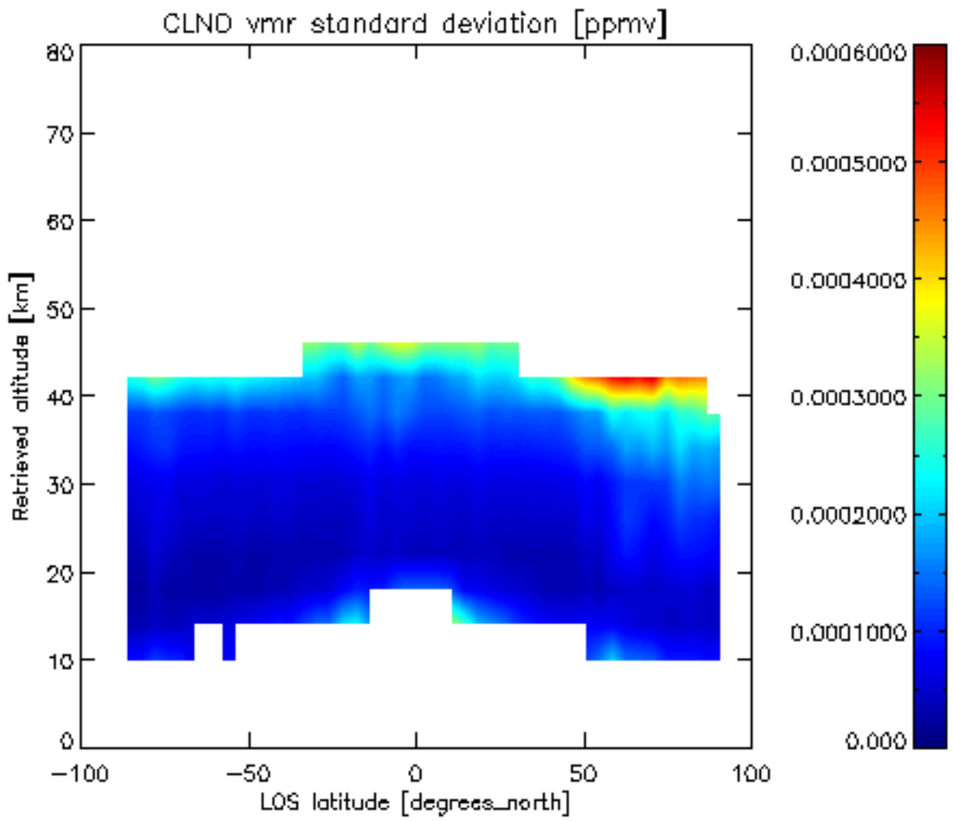

NO2 vmr [ppmv]
Retrieved altitude [km]
Sun elevation angle [deg]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.04000
0.03000
0.02000
0.01000
0.000
−0.01000

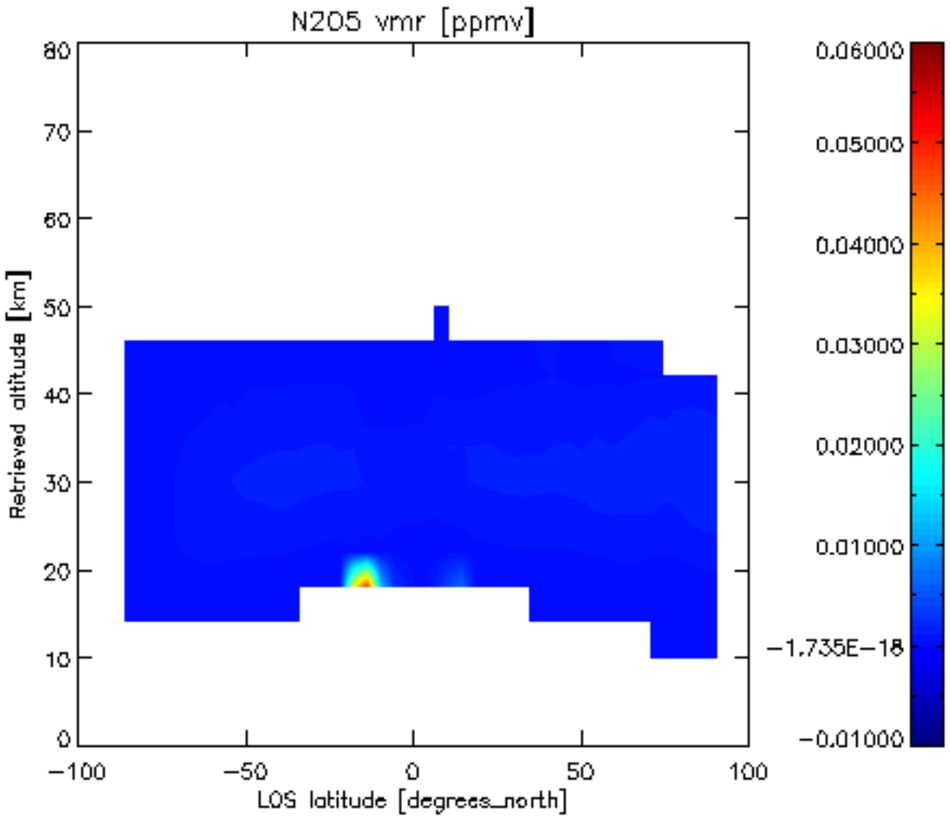

NO2 vmr standard deviation [ppmv]
Retrieved altitude [km]
Sun elevation angle [deg]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.01000
0.008000
0.006000
0.004000
0.002000
0.000

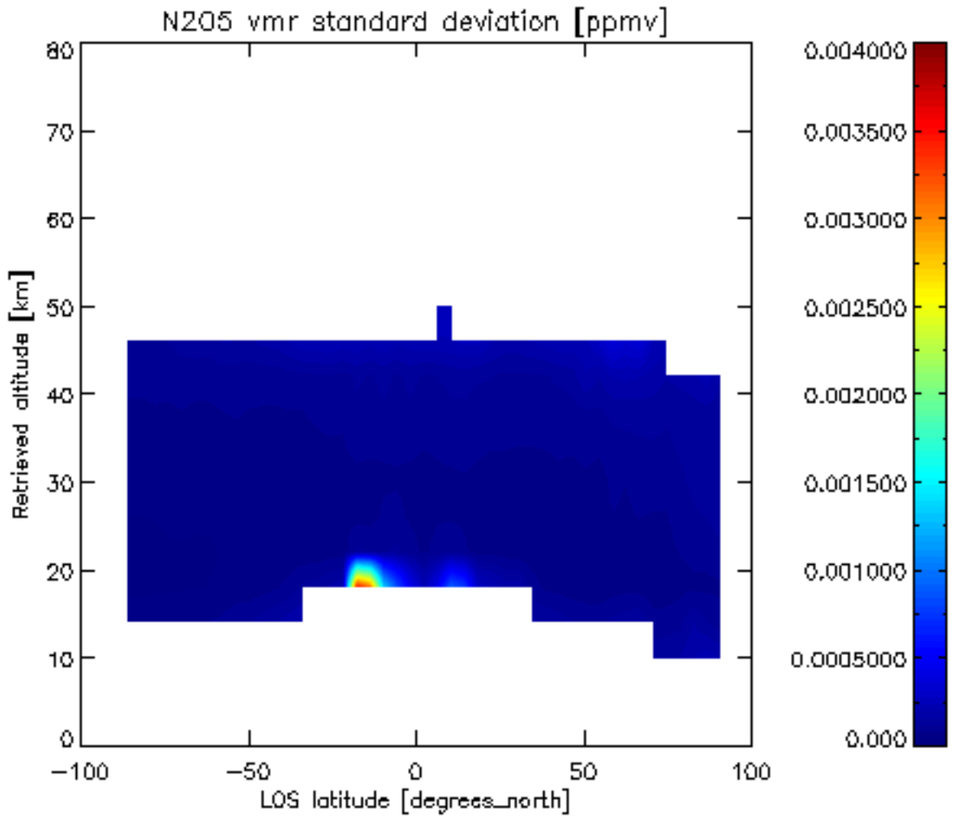

F11 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
0.0003000
0.0002500
0.0002000
0.0001500
0.0001000
5.000E-05
0.000
-5.000E-05
-0.0001000

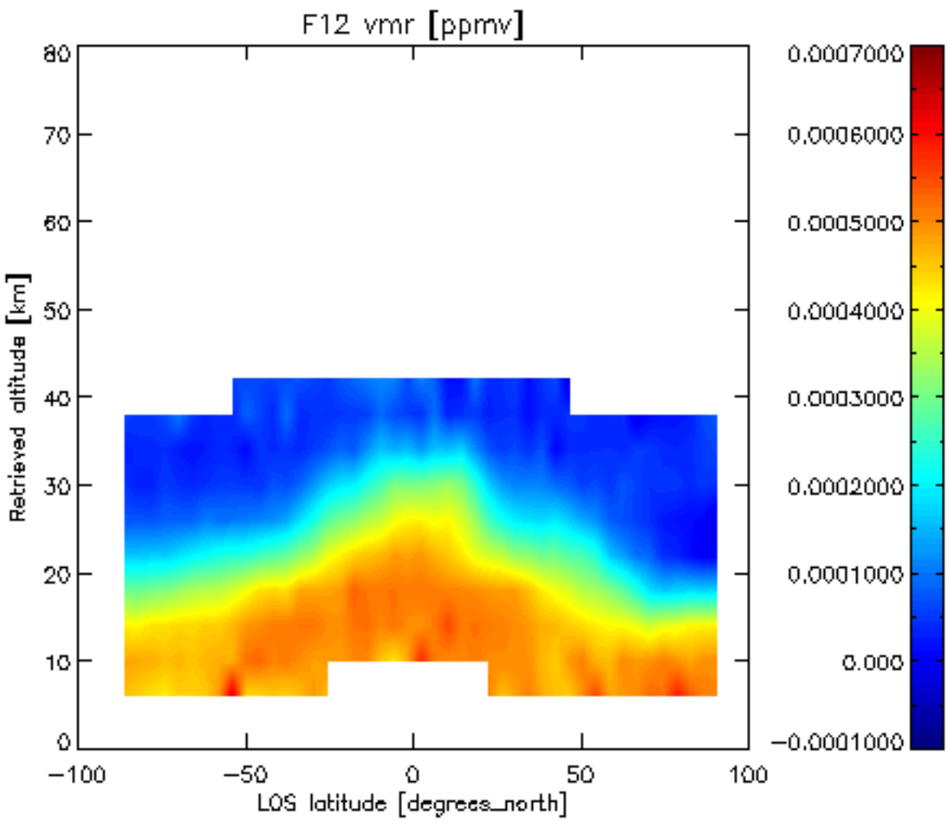

F11 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
6.000E-05
5.000E-05
4.000E-05
3.000E-05
2.000E-05
1.000E-05
0.000

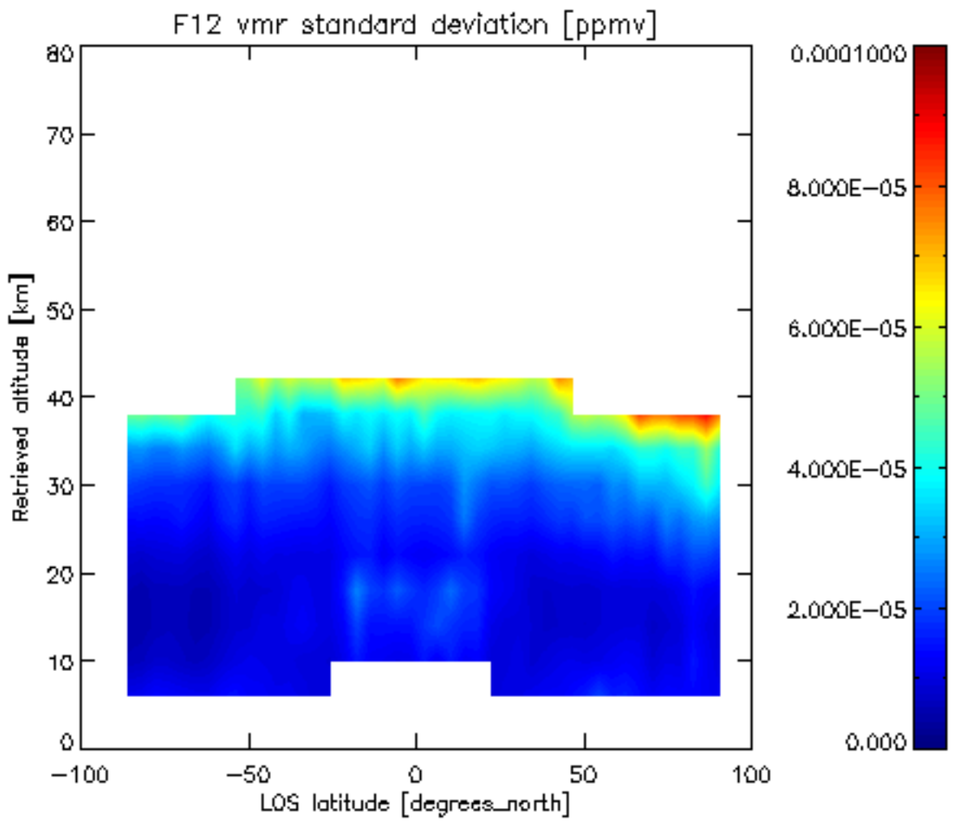

CLNO vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.001500
0.001000
0.0005000
0.000
−0.0005000
−0.001000
−0.001500

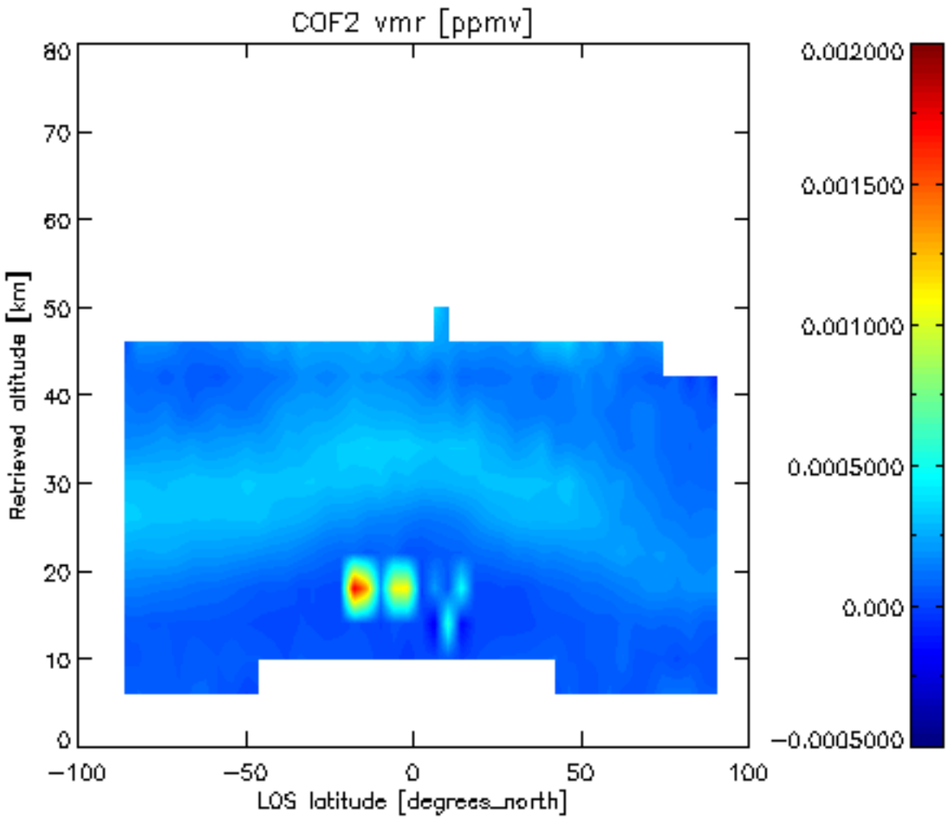

CLNO vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.0006000
0.0005000
0.0004000
0.0003000
0.0002000
0.0001000
0.000

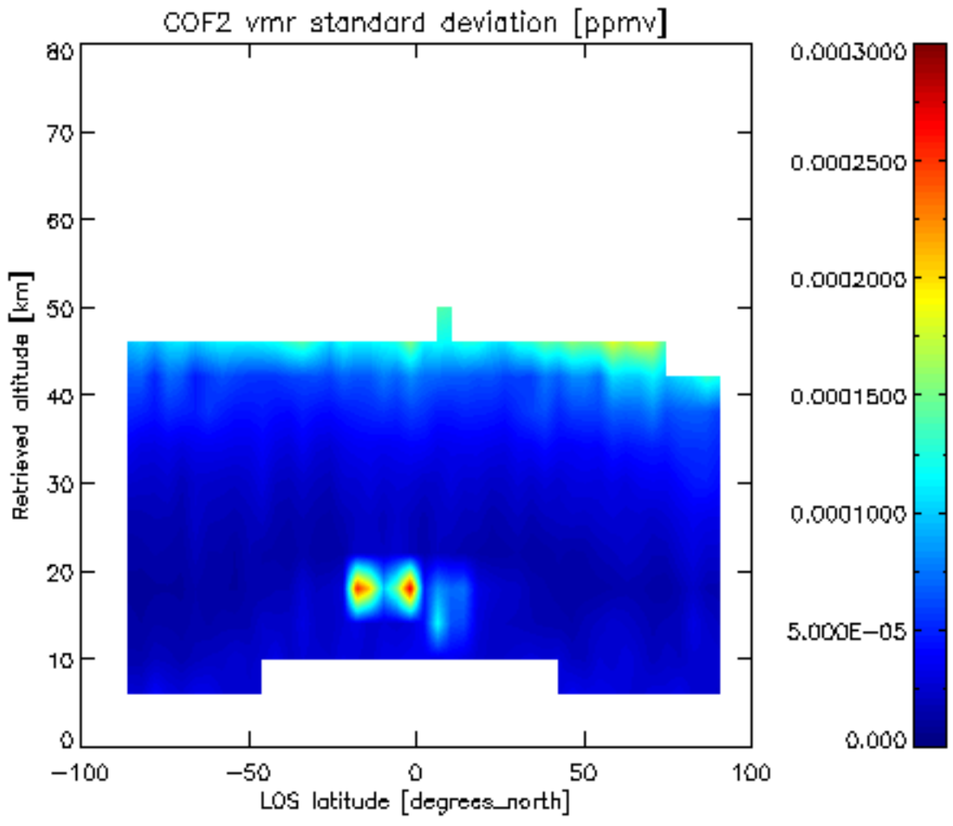

N2O5 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.06000
0.05000
0.04000
0.03000
0.02000
0.01000
−1.735E−18
−0.01000

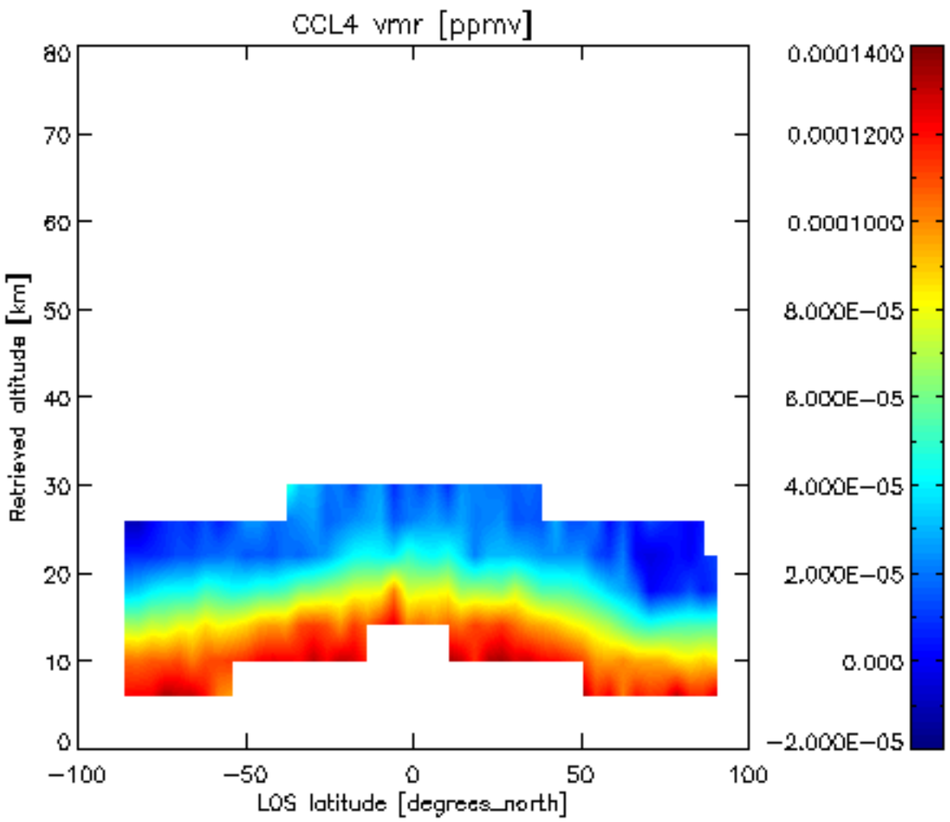

N2O5 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.004000
0.003500
0.003000
0.002500
0.002000
0.001500
0.001000
0.0005000
0.000

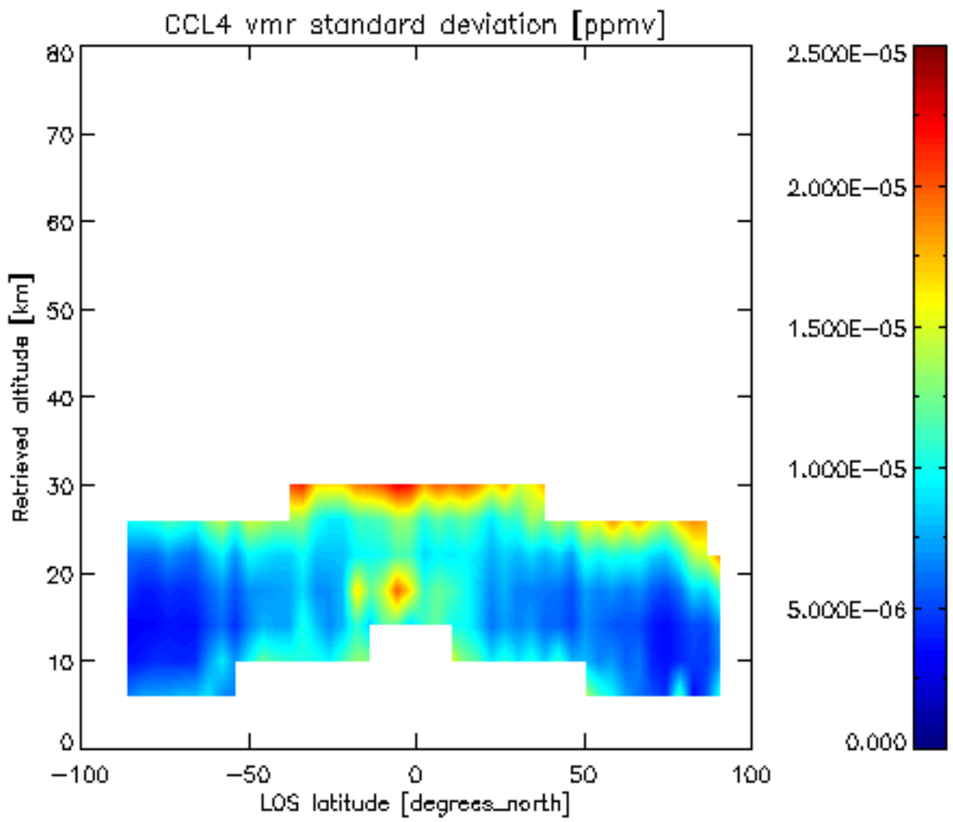

F12 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.0007000
0.0006000
0.0005000
0.0004000
0.0003000
0.0002000
0.0001000
0.000
−0.0001000

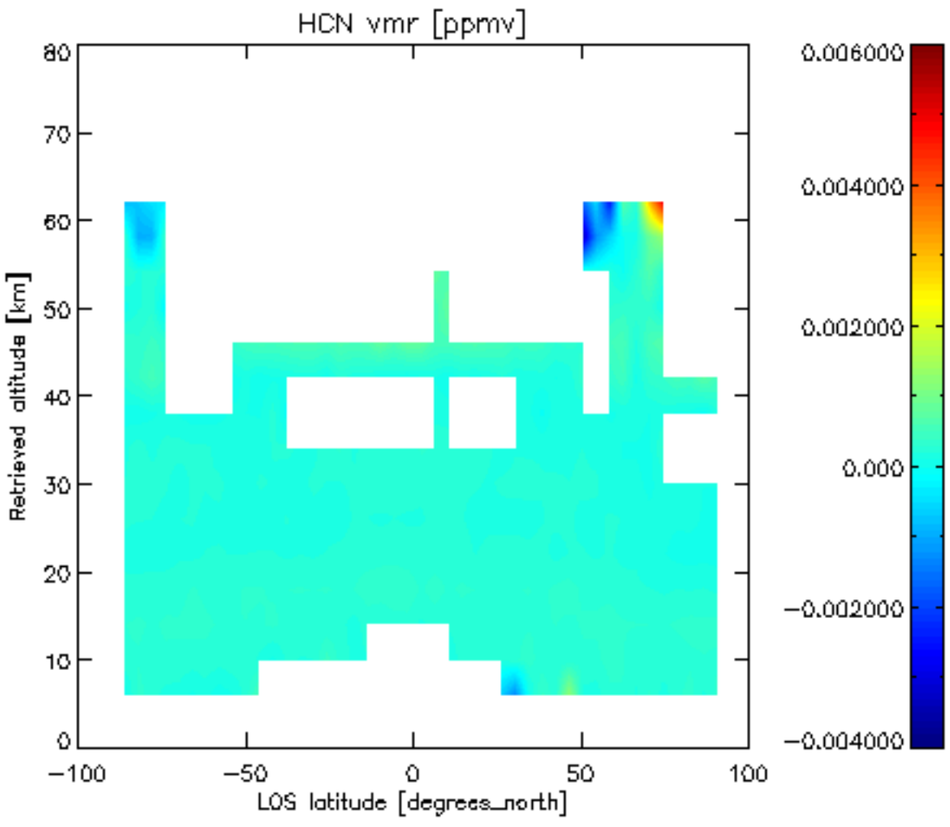

F12 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.0001000
8.000E−05
6.000E−05
4.000E−05
2.000E−05
0.000

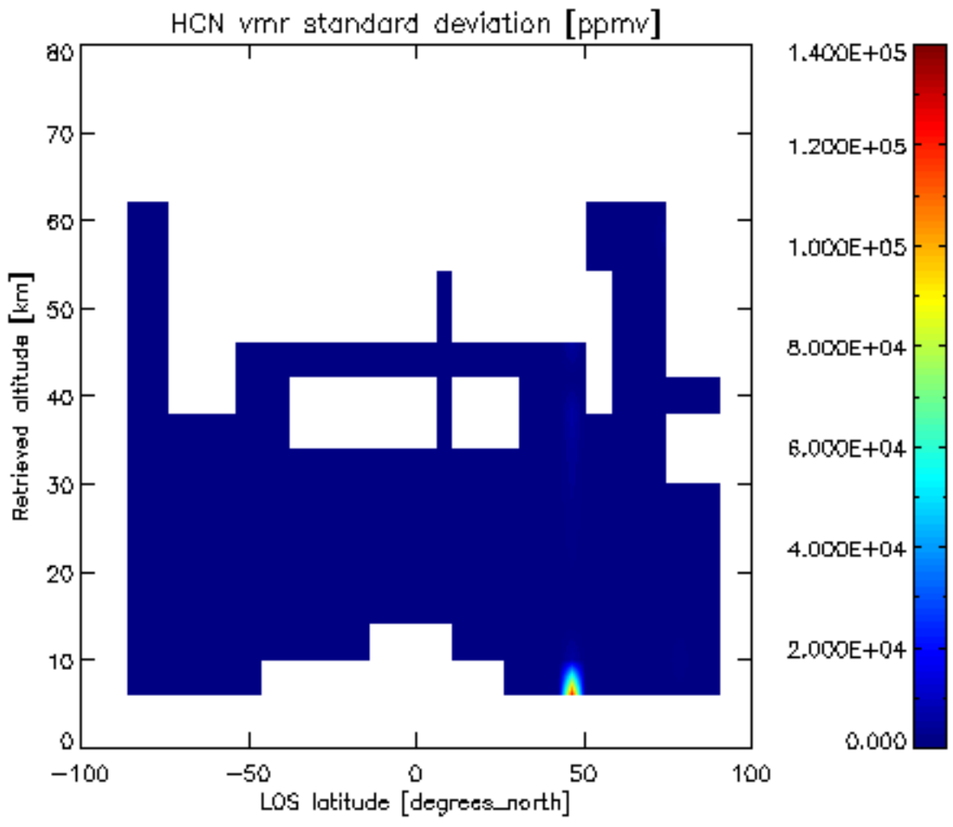

COF2 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.002000
0.001500
0.001000
0.0005000
0.000
−0.0005000

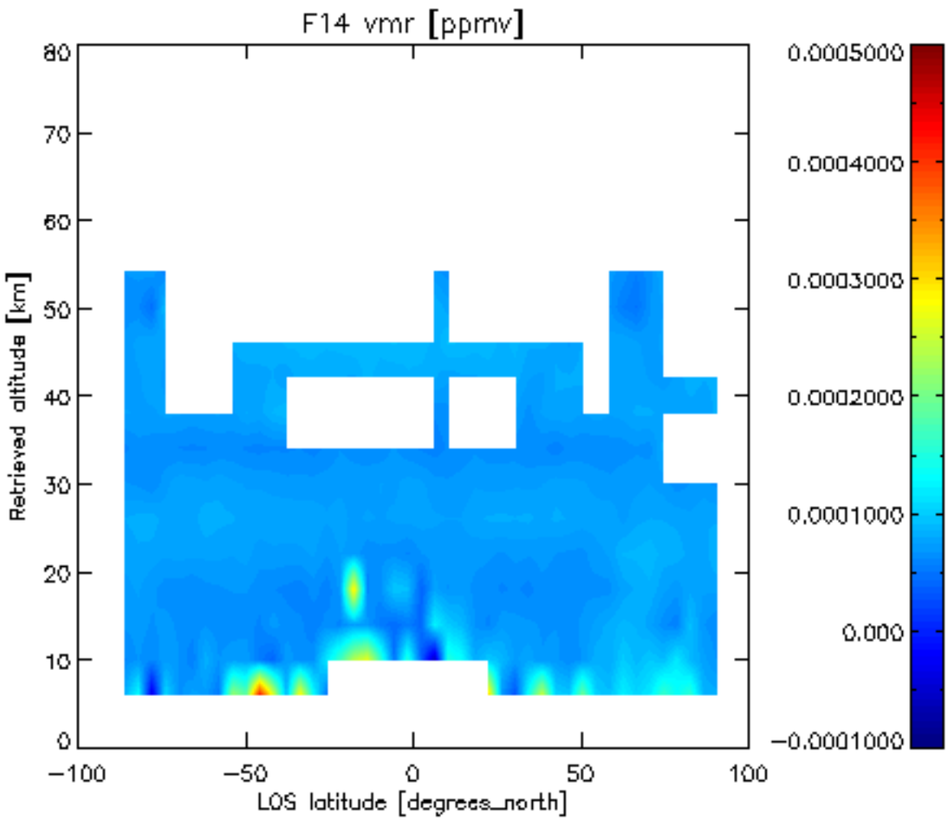

COF2 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.0003000
0.0002500
0.0002000
0.0001500
0.0001000
5.000E−05
0.000

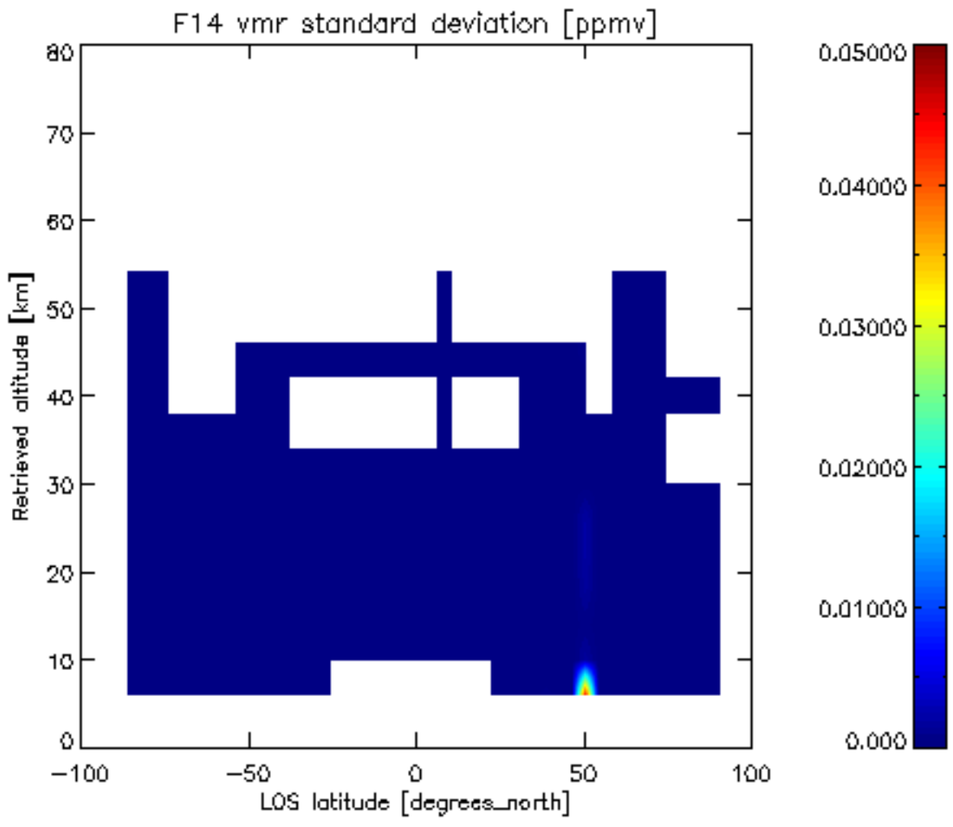

CCL4 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.0001400
0.0001200
0.0001000
8.000E−05
6.000E−05
4.000E−05
2.000E−05
0.000
−2.000E−05

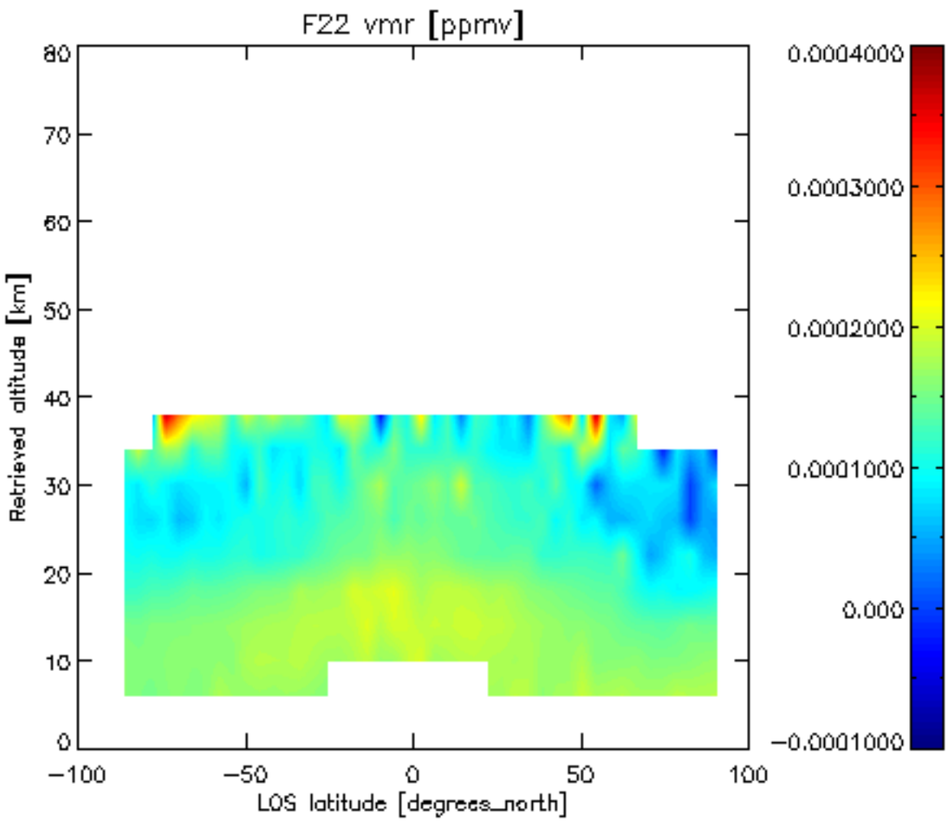

CCL4 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
2.500E−05
2.000E−05
1.500E−05
1.000E−05
5.000E−06
0.000

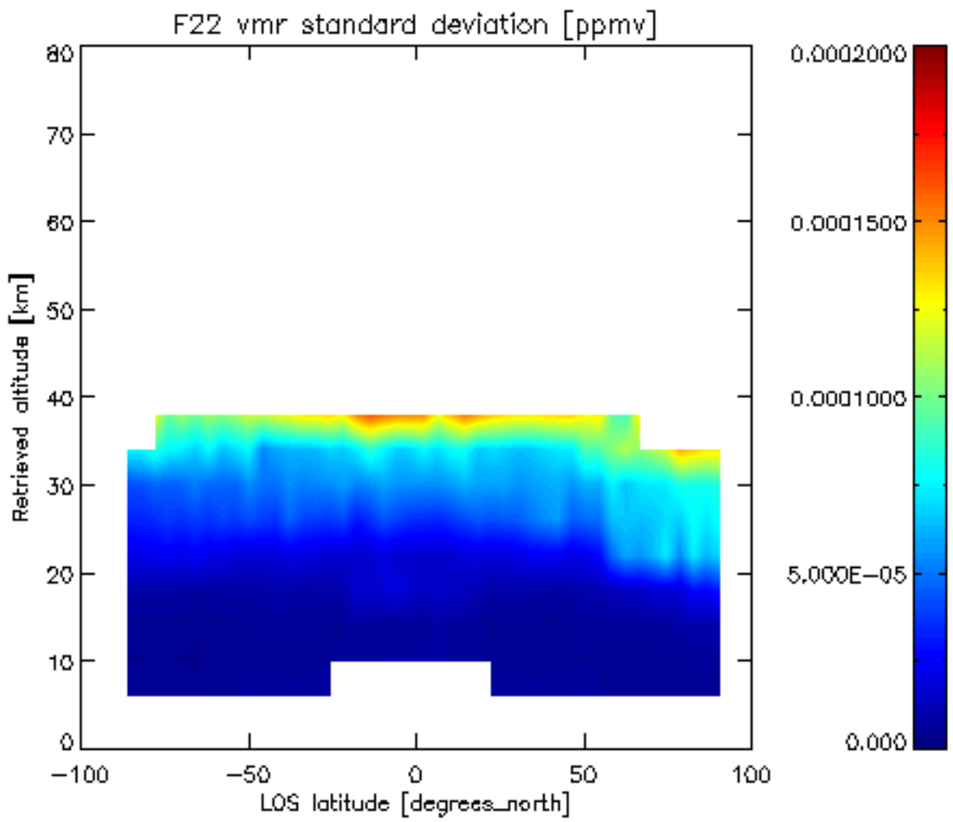

HCN vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.006000
0.004000
0.002000
0.000
−0.002000
−0.004000

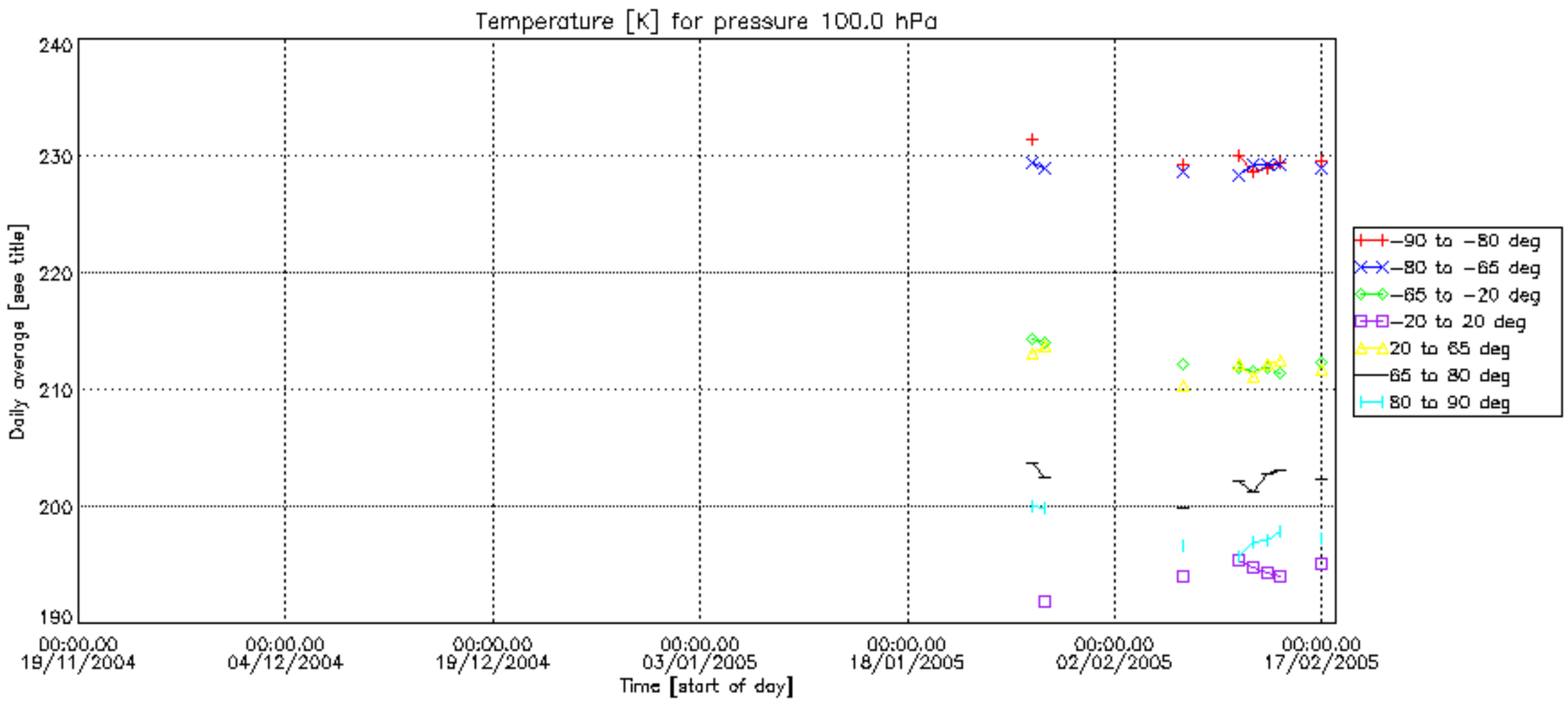

HCN vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
1.400E+05
1.200E+05
1.000E+05
8.000E+04
6.000E+04
4.000E+04
2.000E+04
0.000

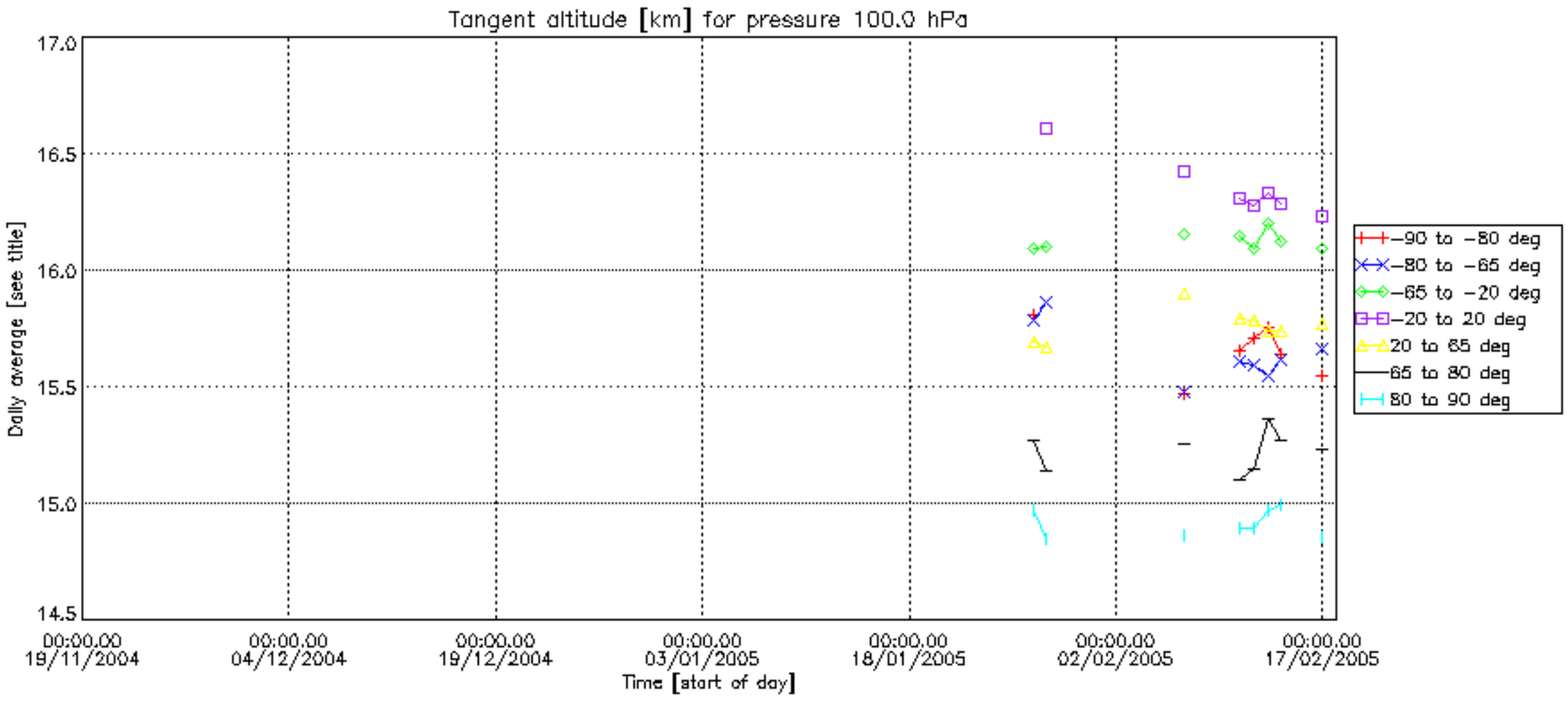

F14 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.0005000
0.0004000
0.0003000
0.0002000
0.0001000
0.000
−0.0001000

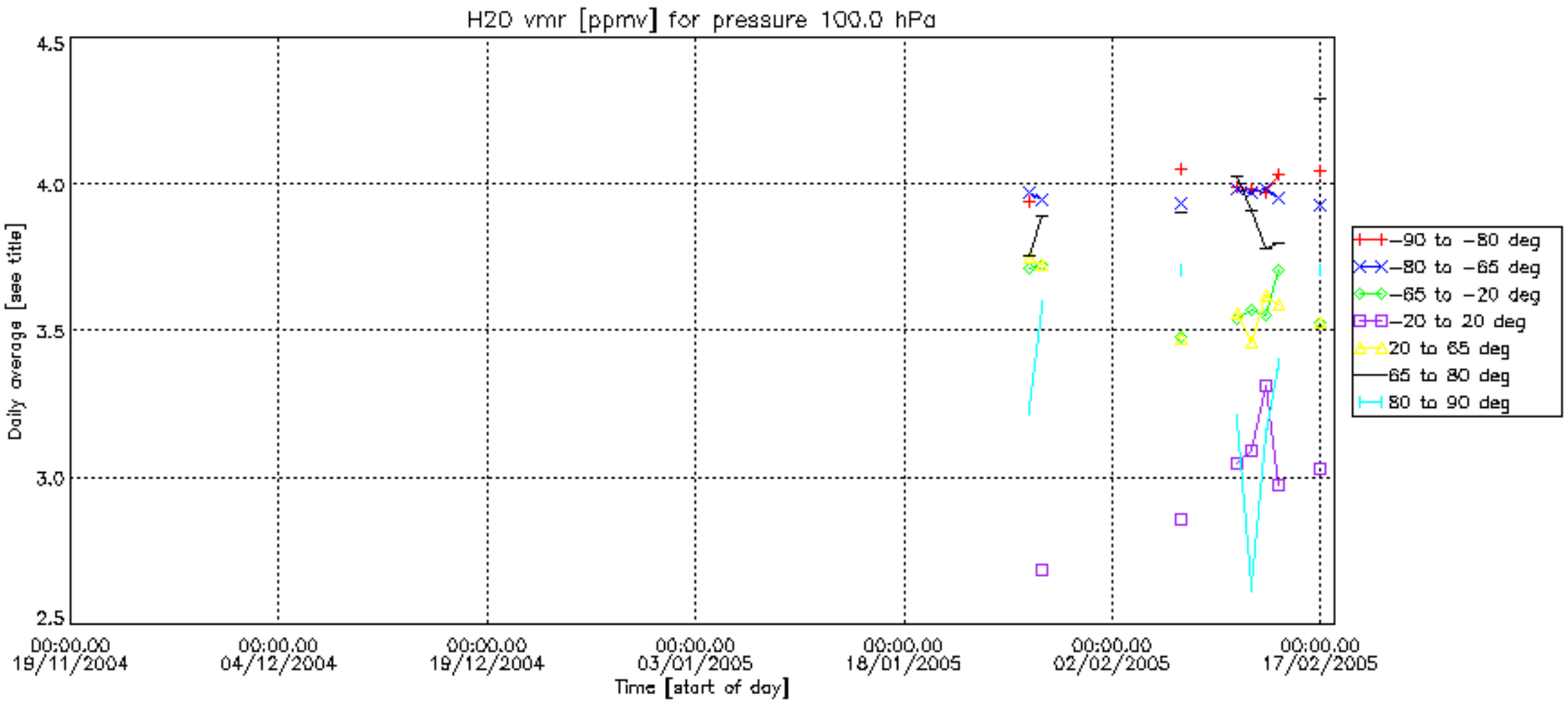

F14 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.05000
0.04000
0.03000
0.02000
0.01000
0.000

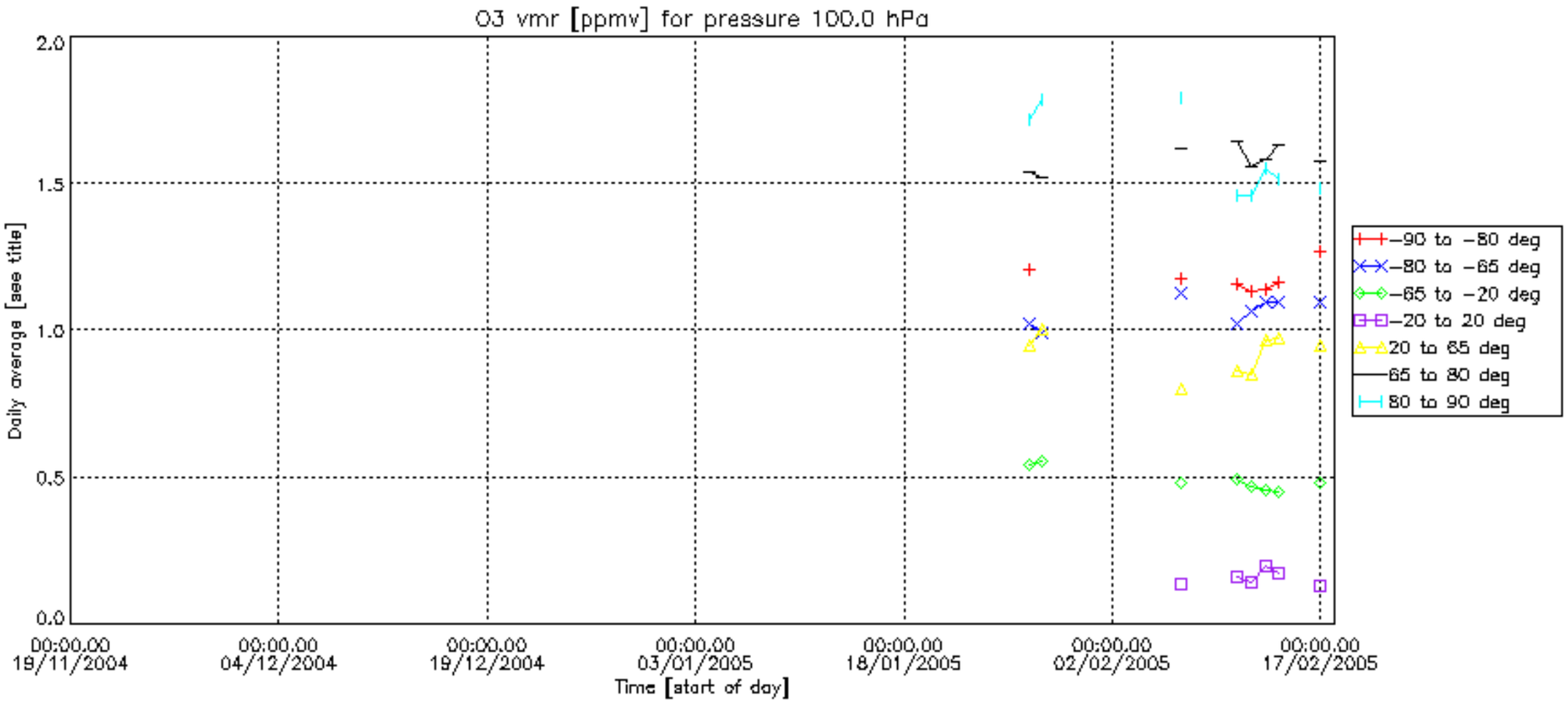

F22 vmr [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.0004000
0.0003000
0.0002000
0.0001000
0.000
−0.0001000

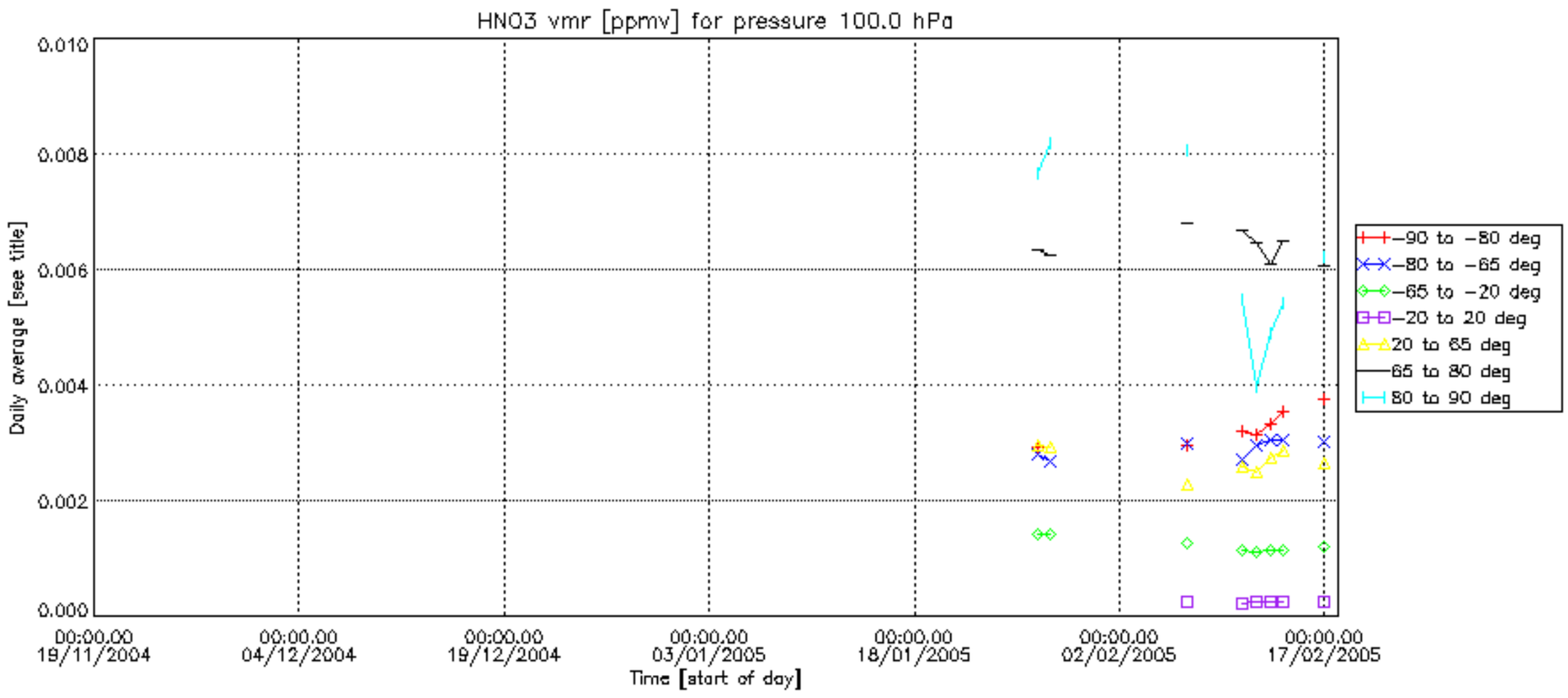

F22 vmr standard deviation [ppmv]
Retrieved altitude [km]
LOS latitude [degrees_north]
80
70
60
50
40
30
20
10
0
−100
−50
0
50
100
0.0002000
0.0001500
0.0001000
5.000E−05
0.000

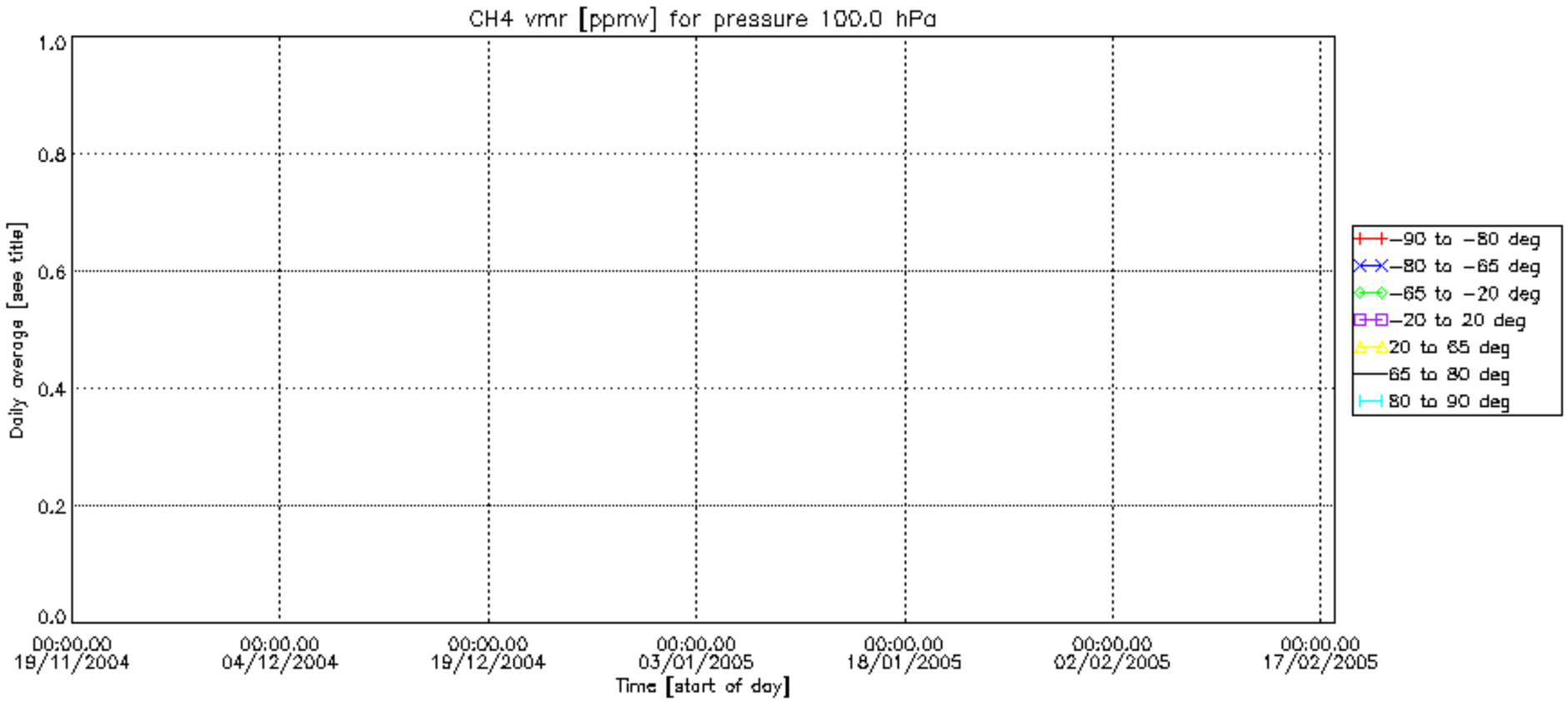

Temperature [K] for pressure 100.0 hPa
240
230
220
210
200
190
Daily average [see title]
00:00.00
19/11/2004
00:00.00
04/12/2004
00:00.00
19/12/2004
00:00.00
03/01/2005
00:00.00
18/01/2005
00:00.00
02/02/2005
00:00.00
17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

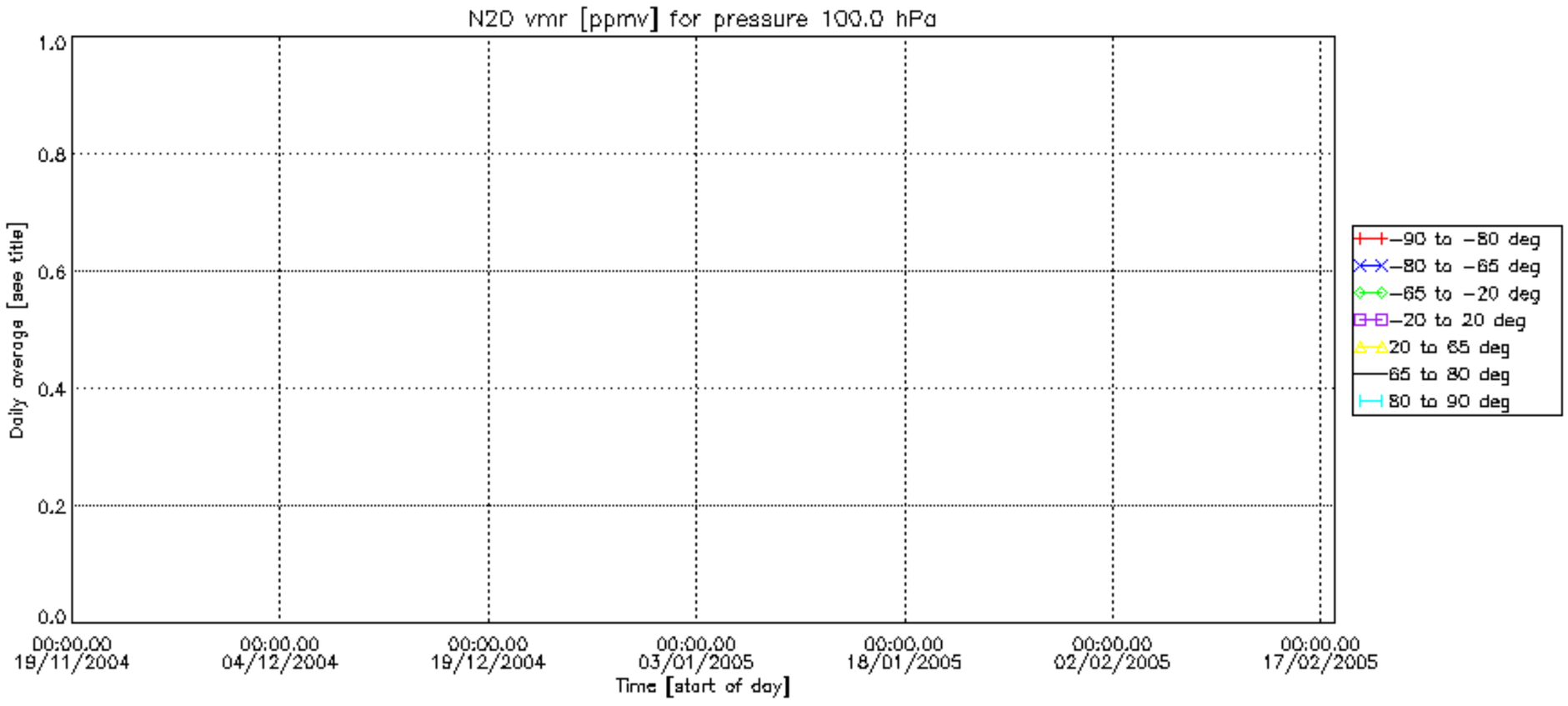

Tangent altitude [km] for pressure 100.0 hPa
Daily average [see title]
17.0
16.5
16.0
15.5
15.0
14.5
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

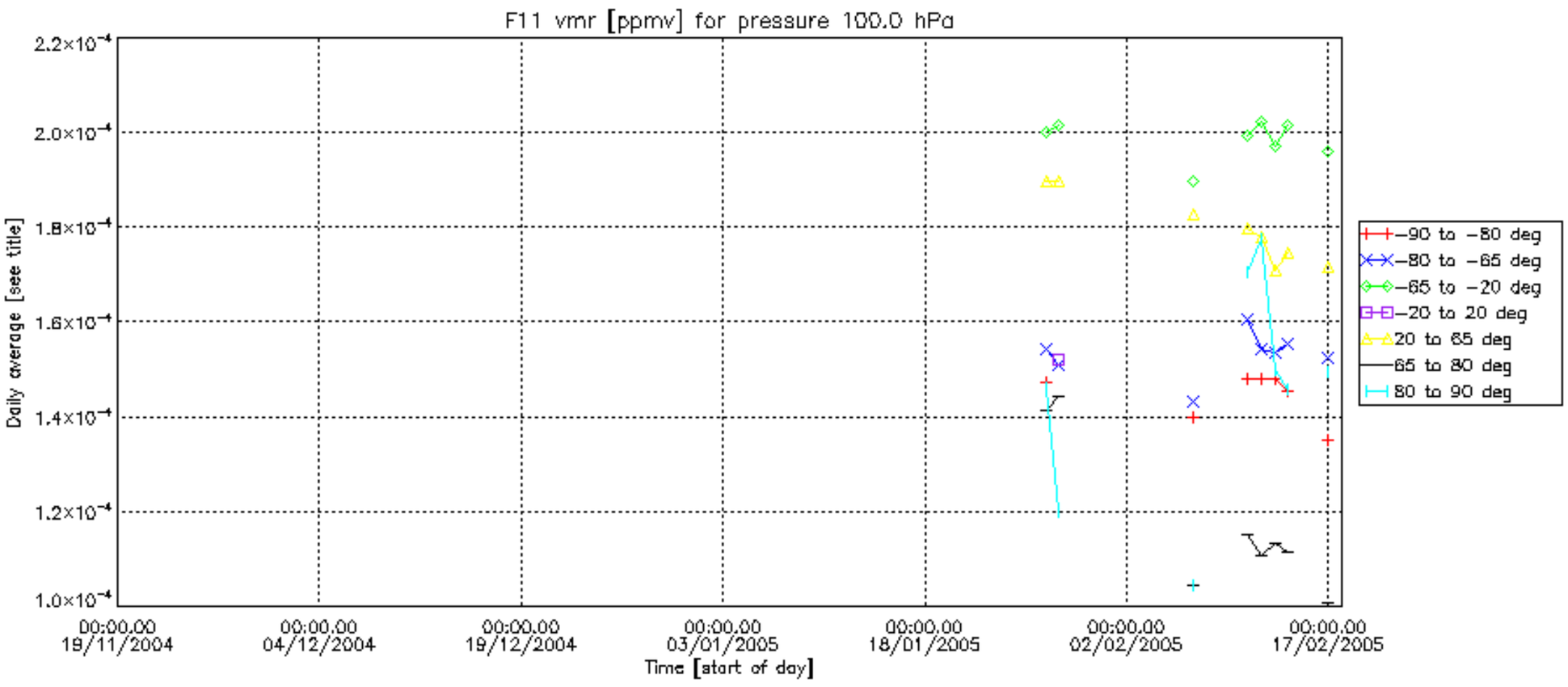

H2O vmr [ppmv] for pressure 100.0 hPa
Daily average [see title]
4.5
4.0
3.5
3.0
2.5
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

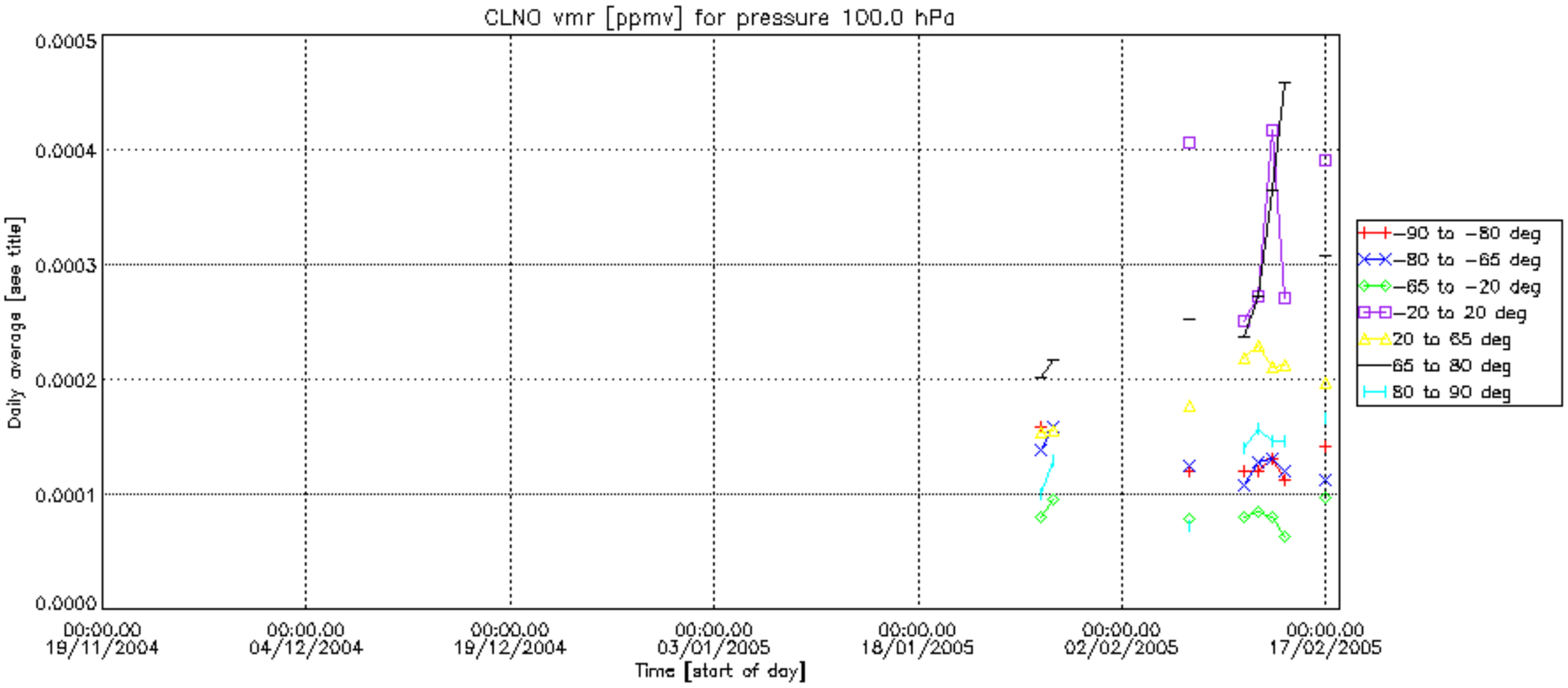

O3 vmr [ppmv] for pressure 100.0 hPa
Daily average [see title]
2.0
1.5
1.0
0.5
0.0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

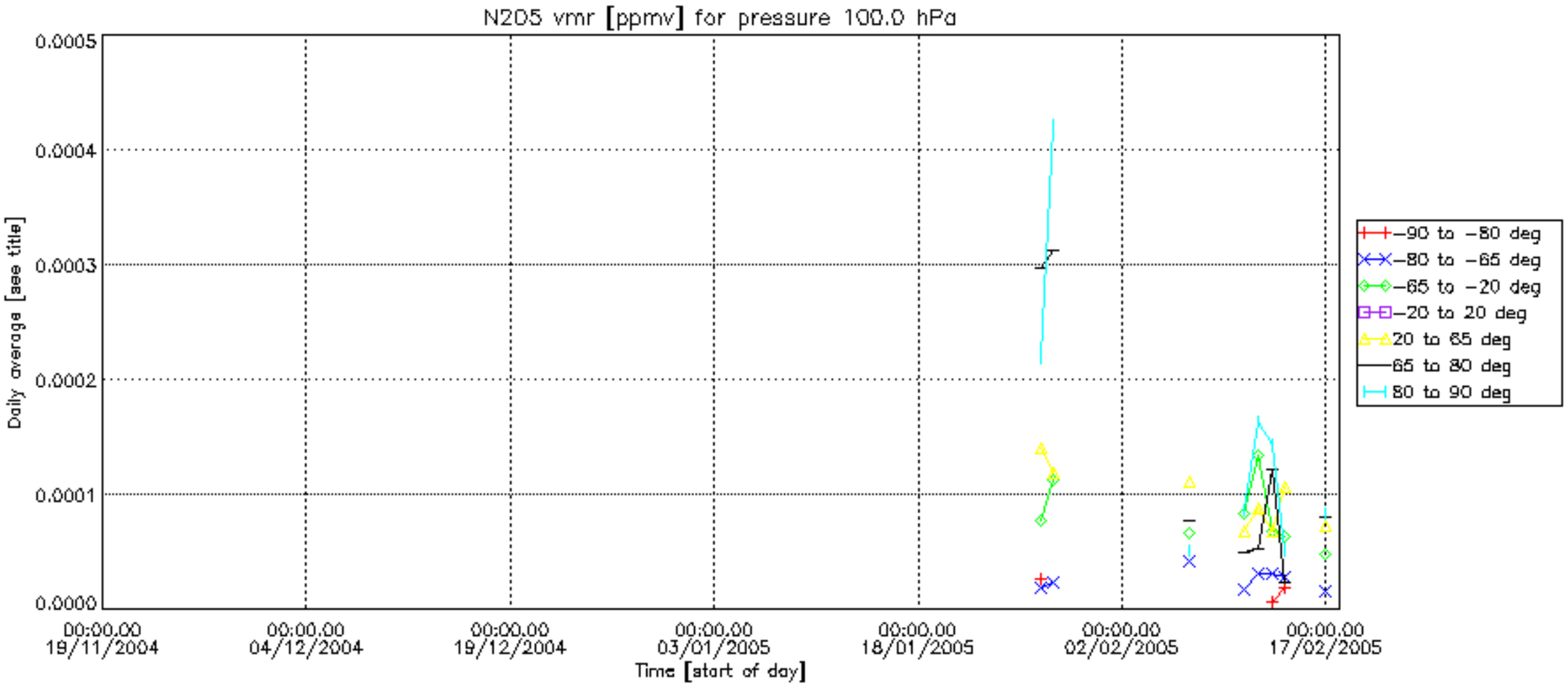

HNO3 vmr [ppmv] for pressure 100.0 hPa
0.010
0.008
0.006
0.004
0.002
0.000
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

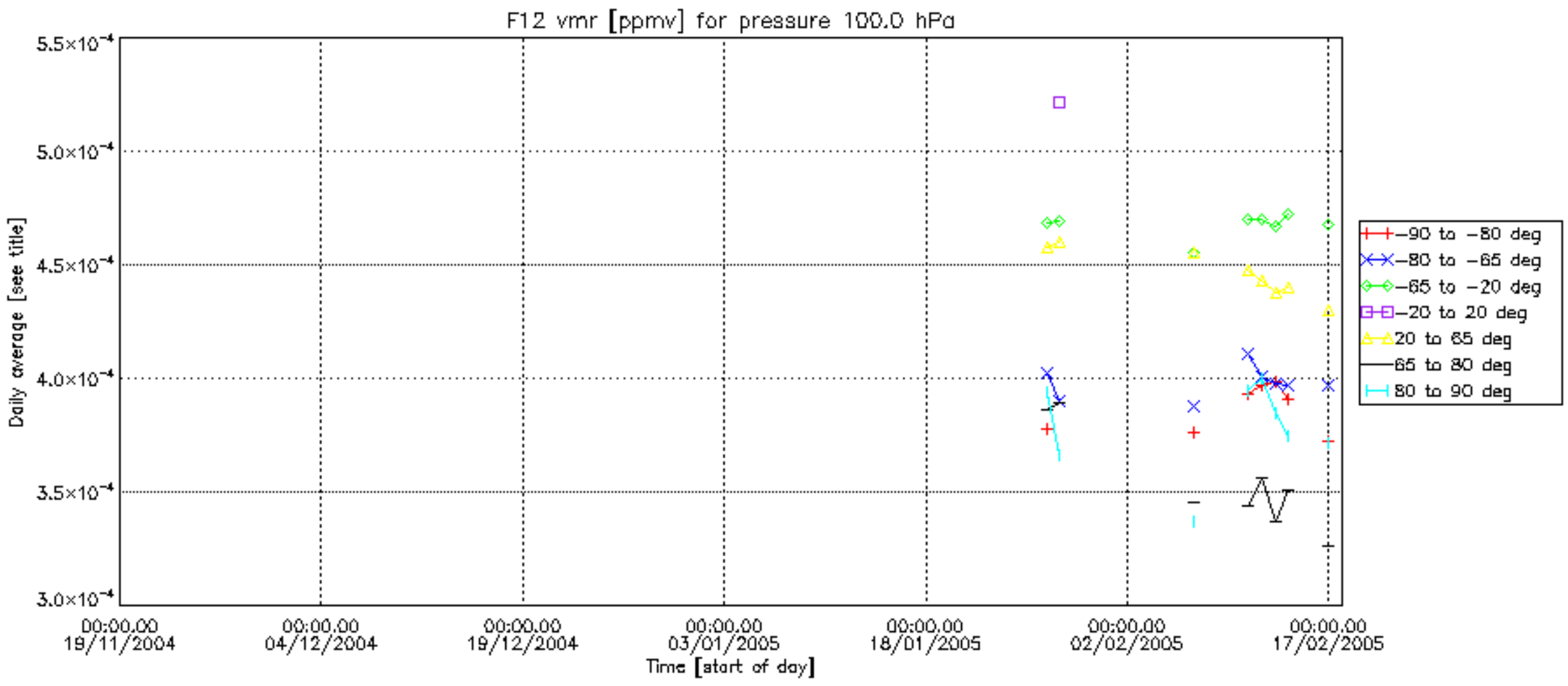

CH4 vmr [ppmv] for pressure 100.0 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

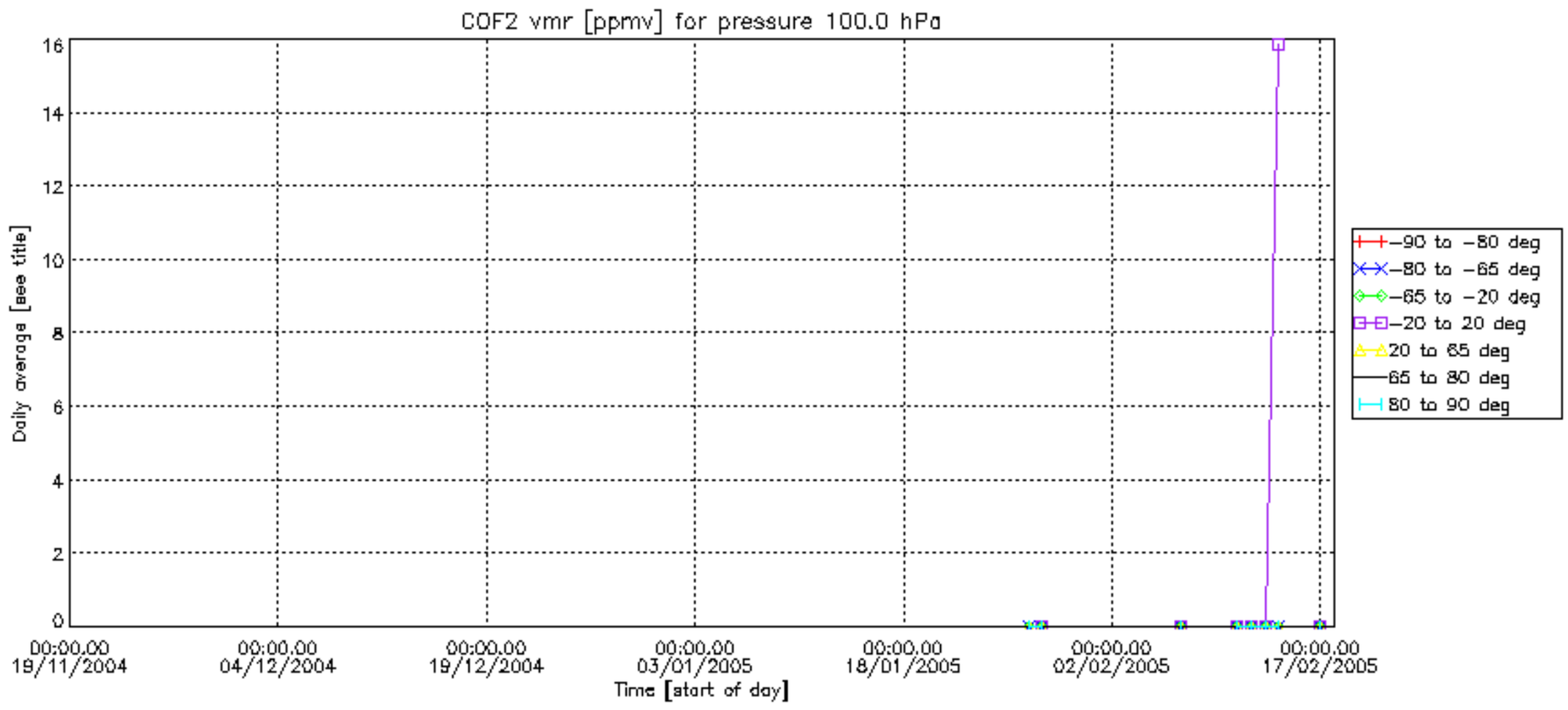

N2O vmr [ppmv] for pressure 100.0 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

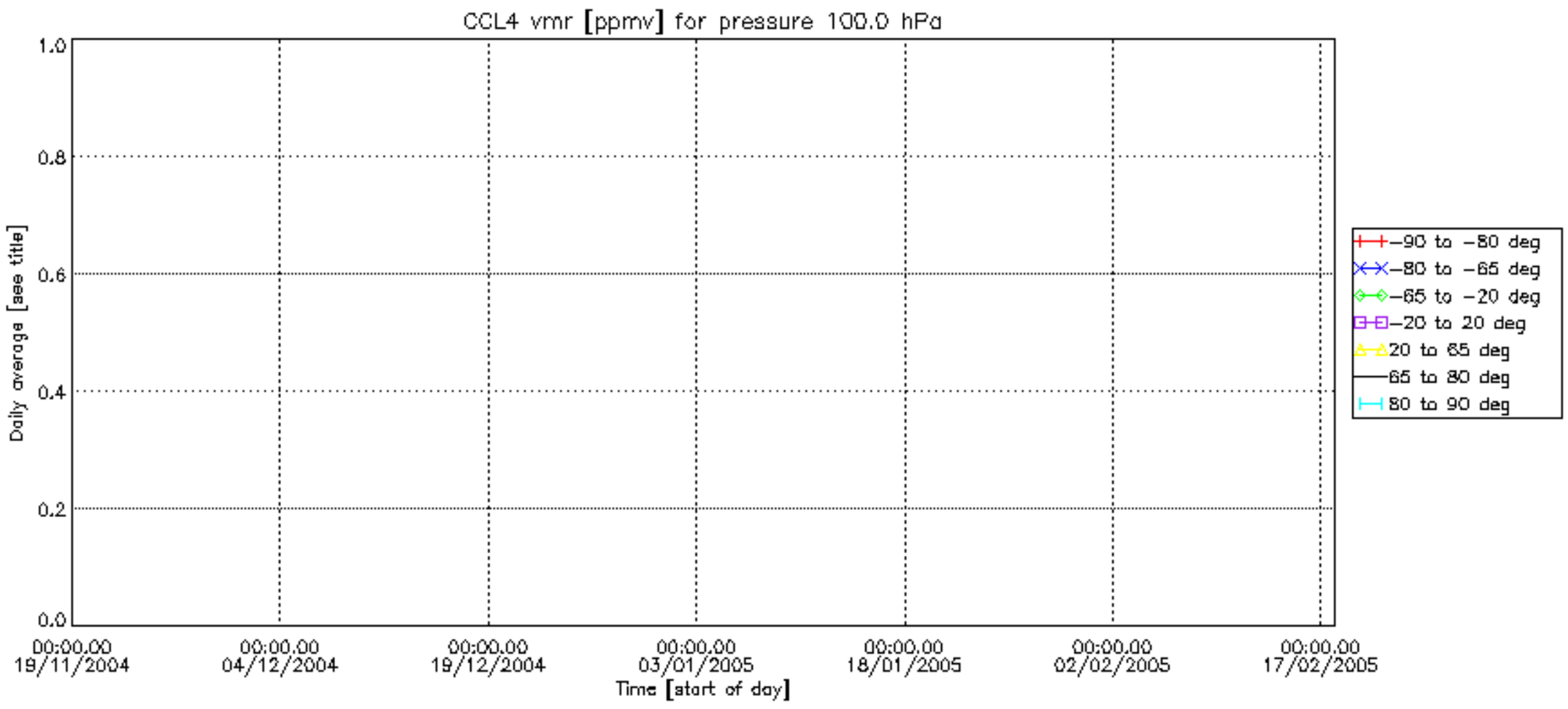

F11 vmr [ppmv] for pressure 100.0 hPa
2.2×10⁻⁴
2.0×10⁻⁴
1.8×10⁻⁴
1.6×10⁻⁴
1.4×10⁻⁴
1.2×10⁻⁴
1.0×10⁻⁴
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

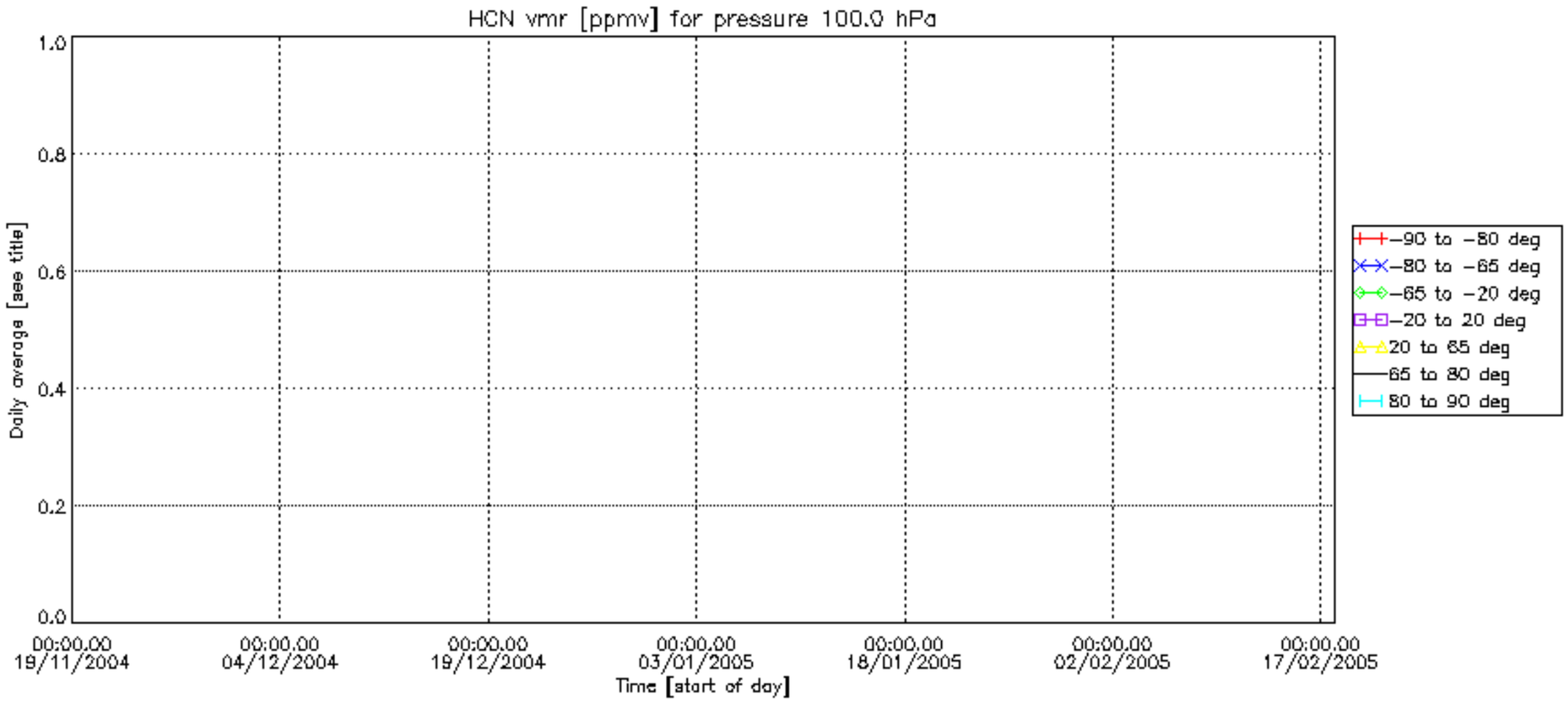

CLNO vmr [ppmv] for pressure 100.0 hPa
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

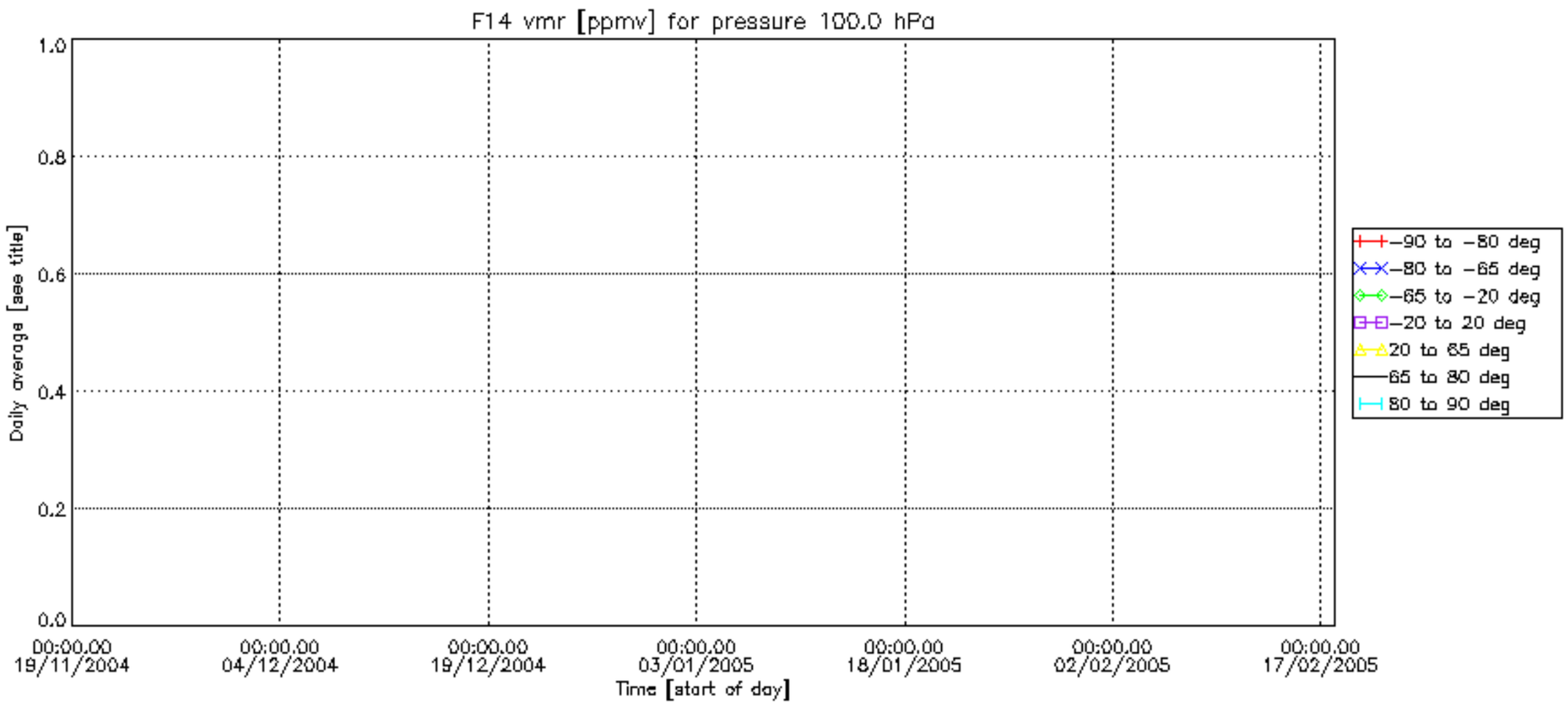

N2O5 vmr [ppmv] for pressure 100.0 hPa
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

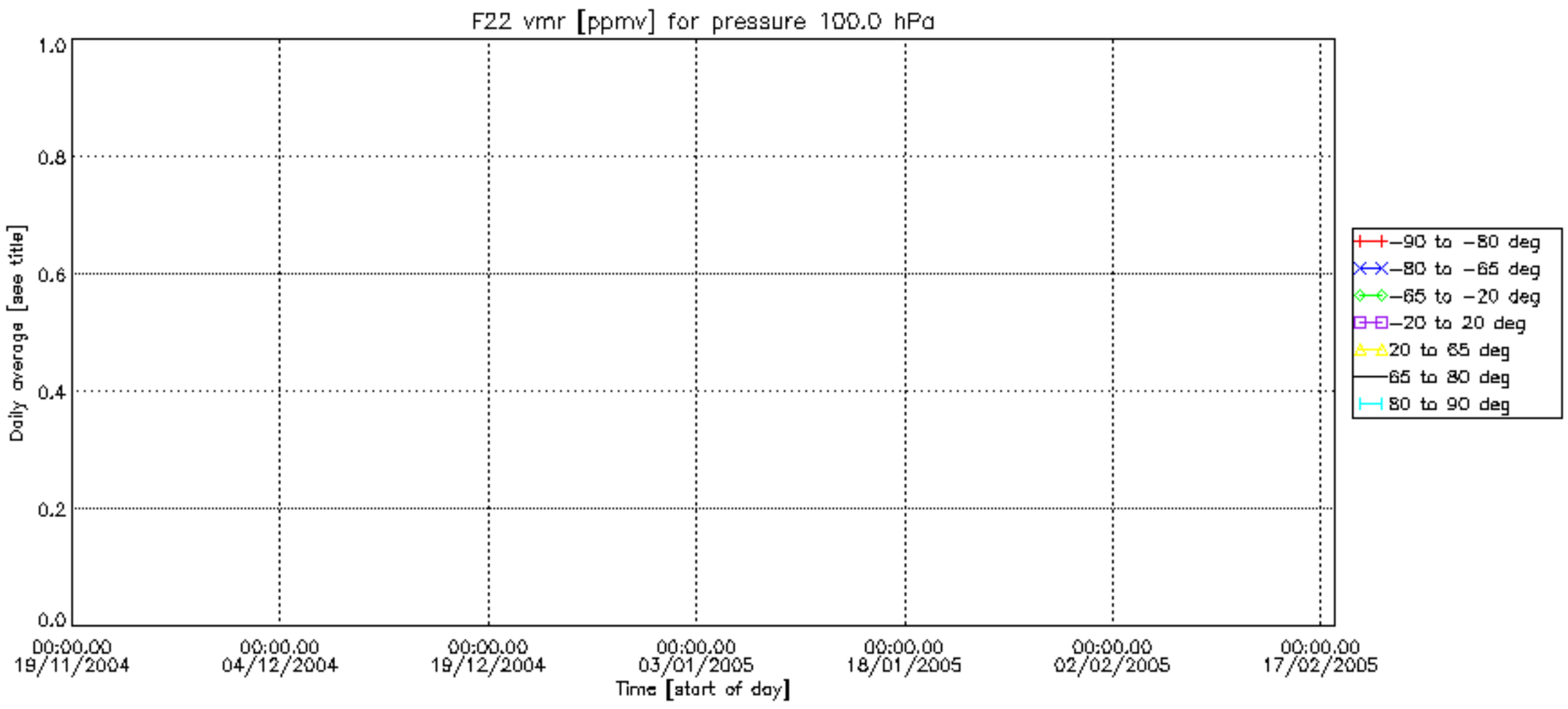

F12 vmr [ppmv] for pressure 100.0 hPa
5.5×10⁻⁴
5.0×10⁻⁴
4.5×10⁻⁴
4.0×10⁻⁴
3.5×10⁻⁴
3.0×10⁻⁴
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

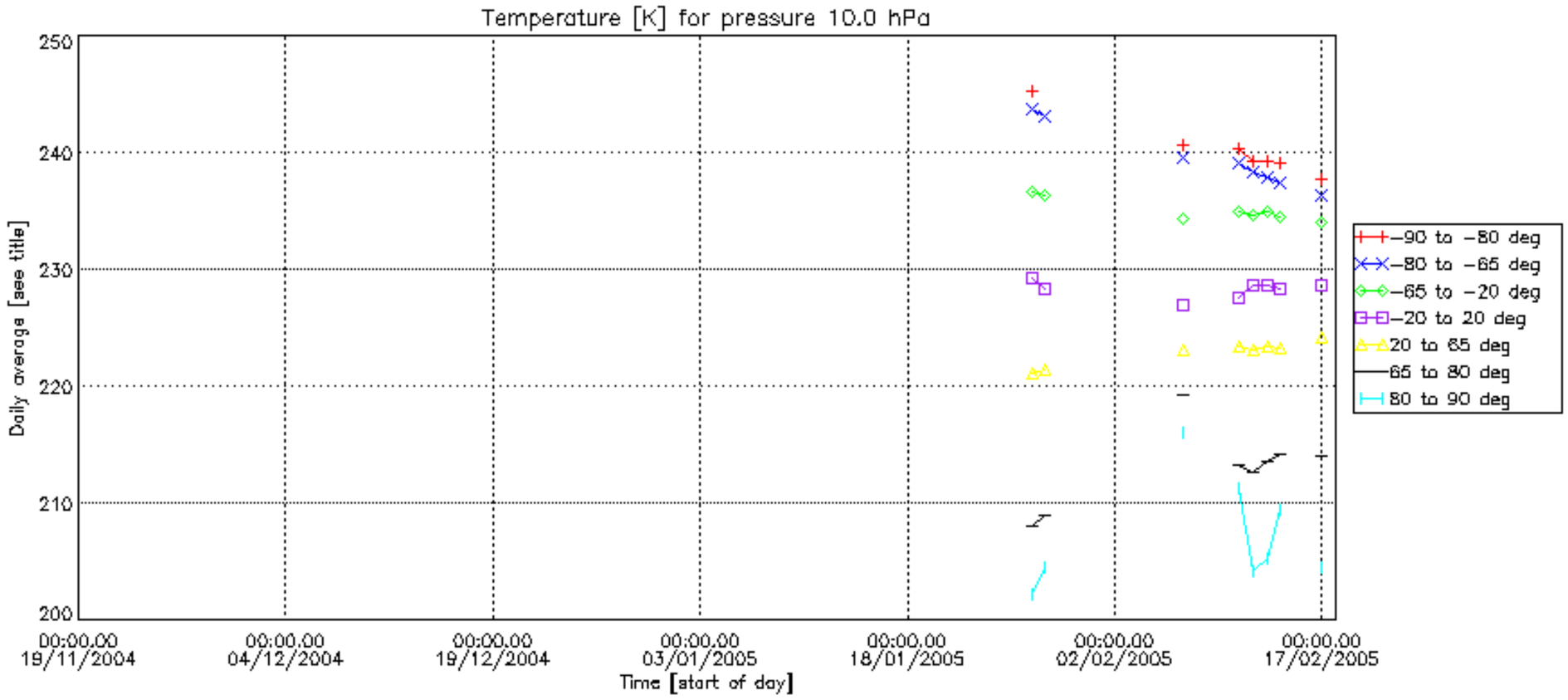

COF2 vmr [ppmv] for pressure 100.0 hPa
Daily average [see title]
16
14
12
10
8
6
4
2
0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

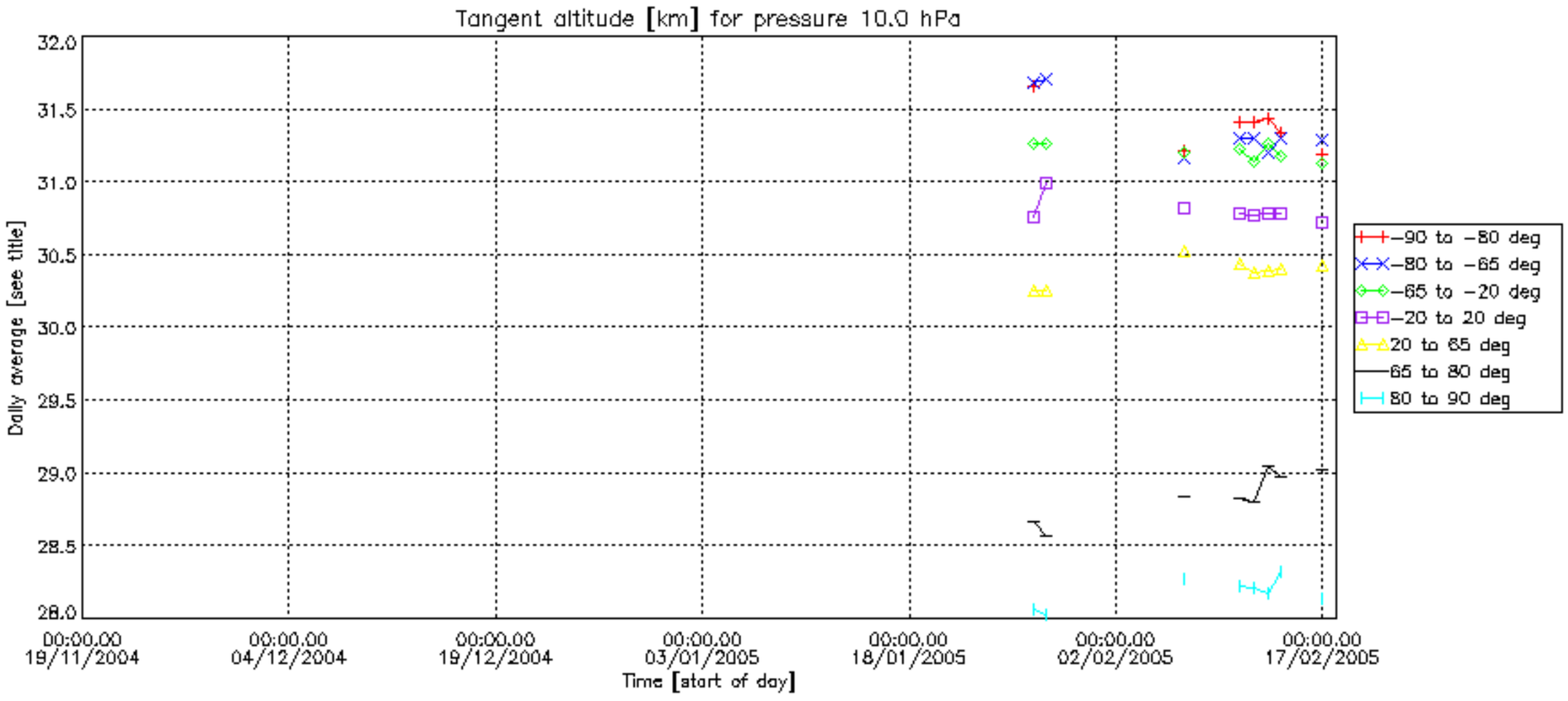

CCL4 vmr [ppmv] for pressure 100.0 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

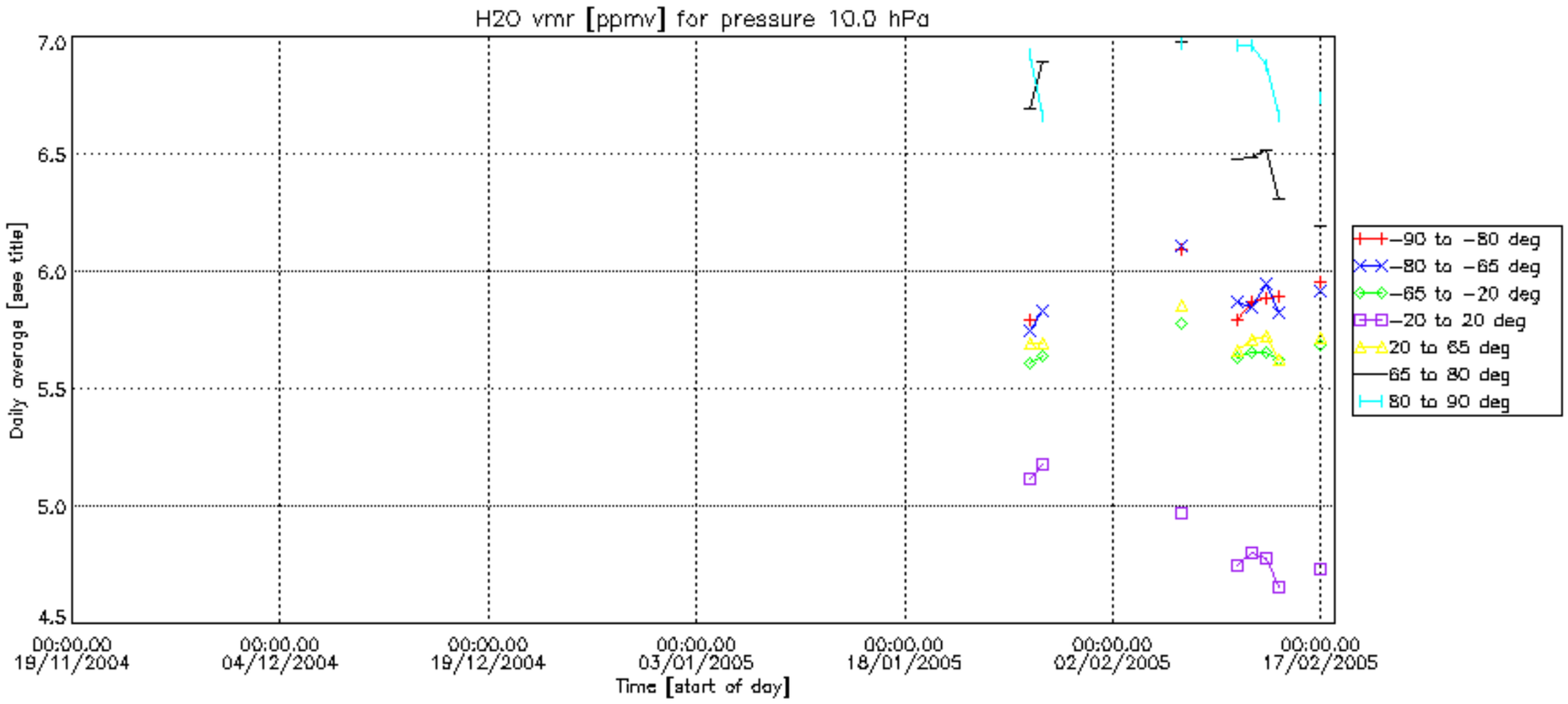

HCN vmr [ppmv] for pressure 100.0 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

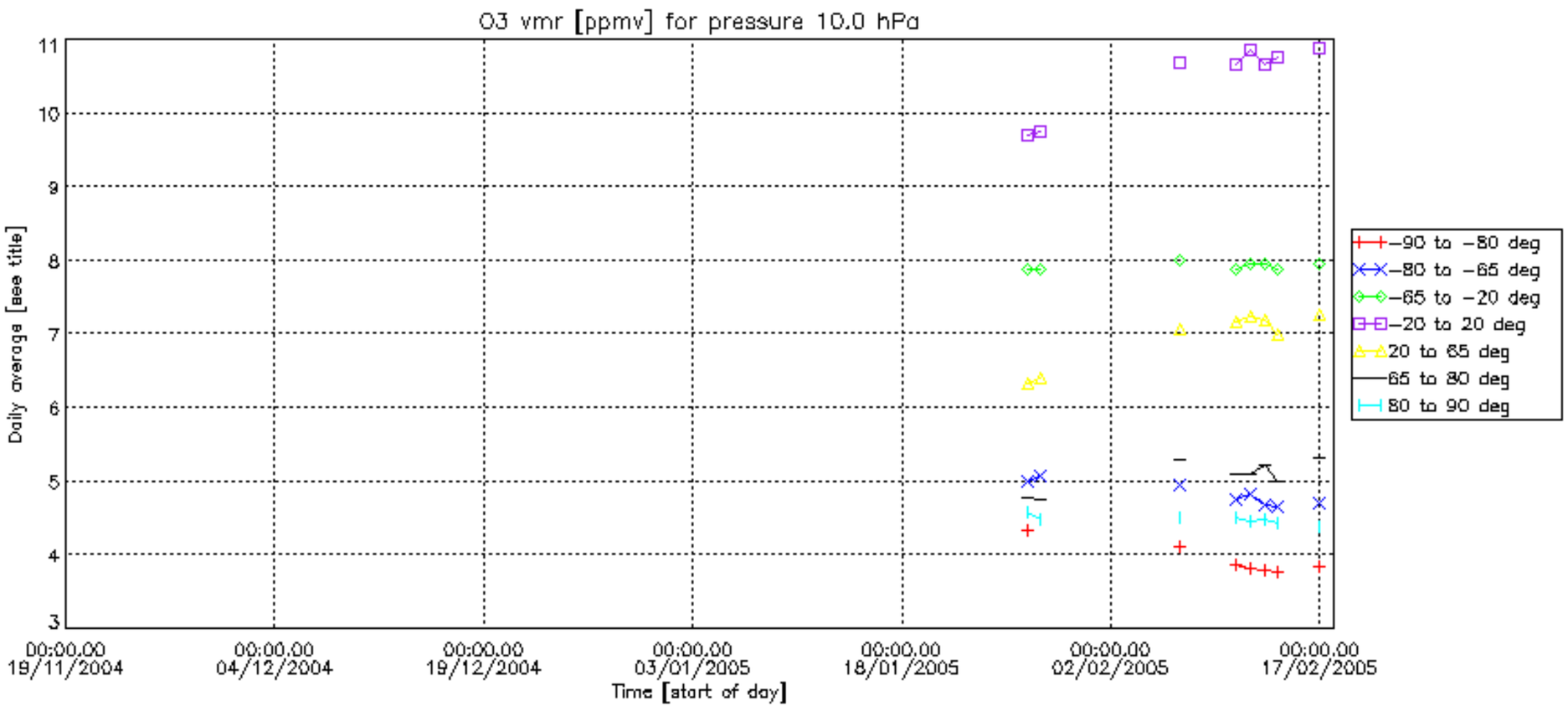

F14 vmr [ppmv] for pressure 100.0 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

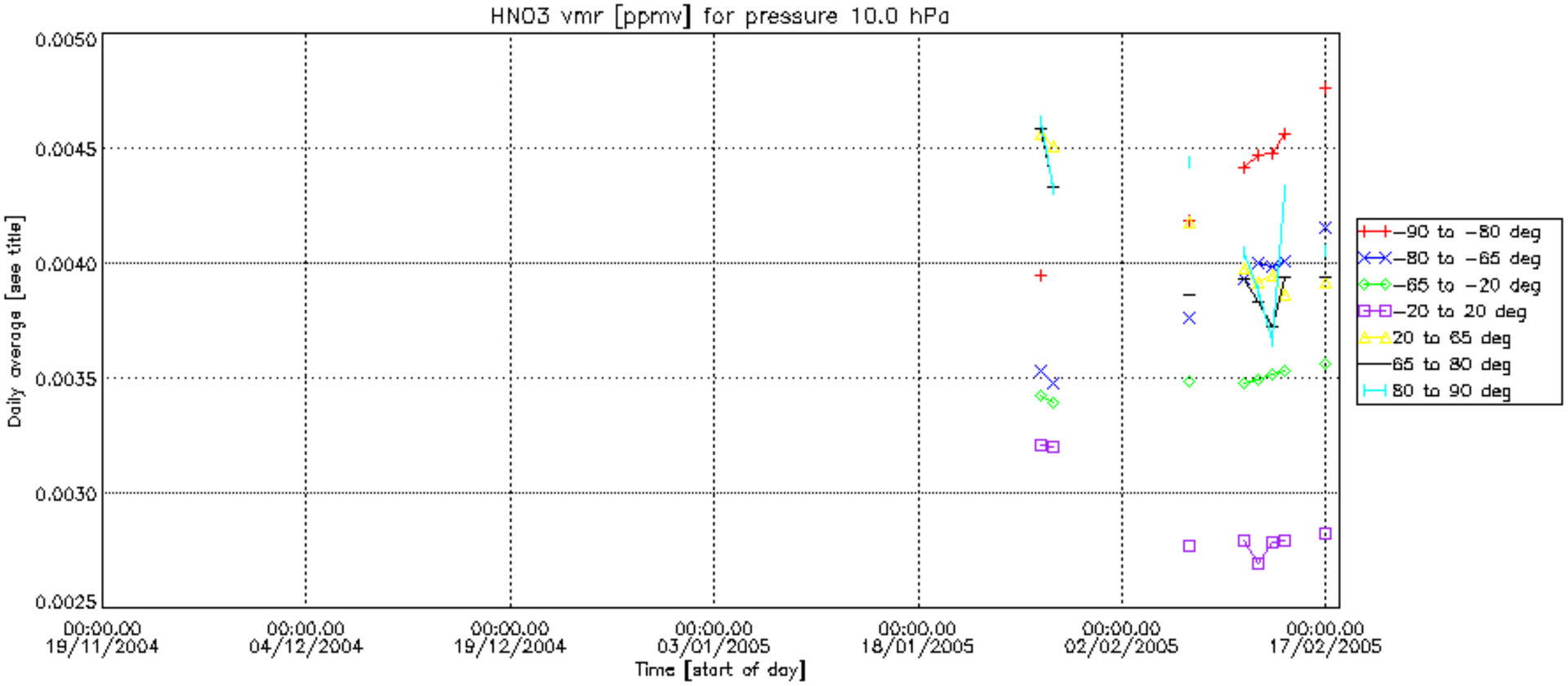

F22 vmr [ppmv] for pressure 100.0 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

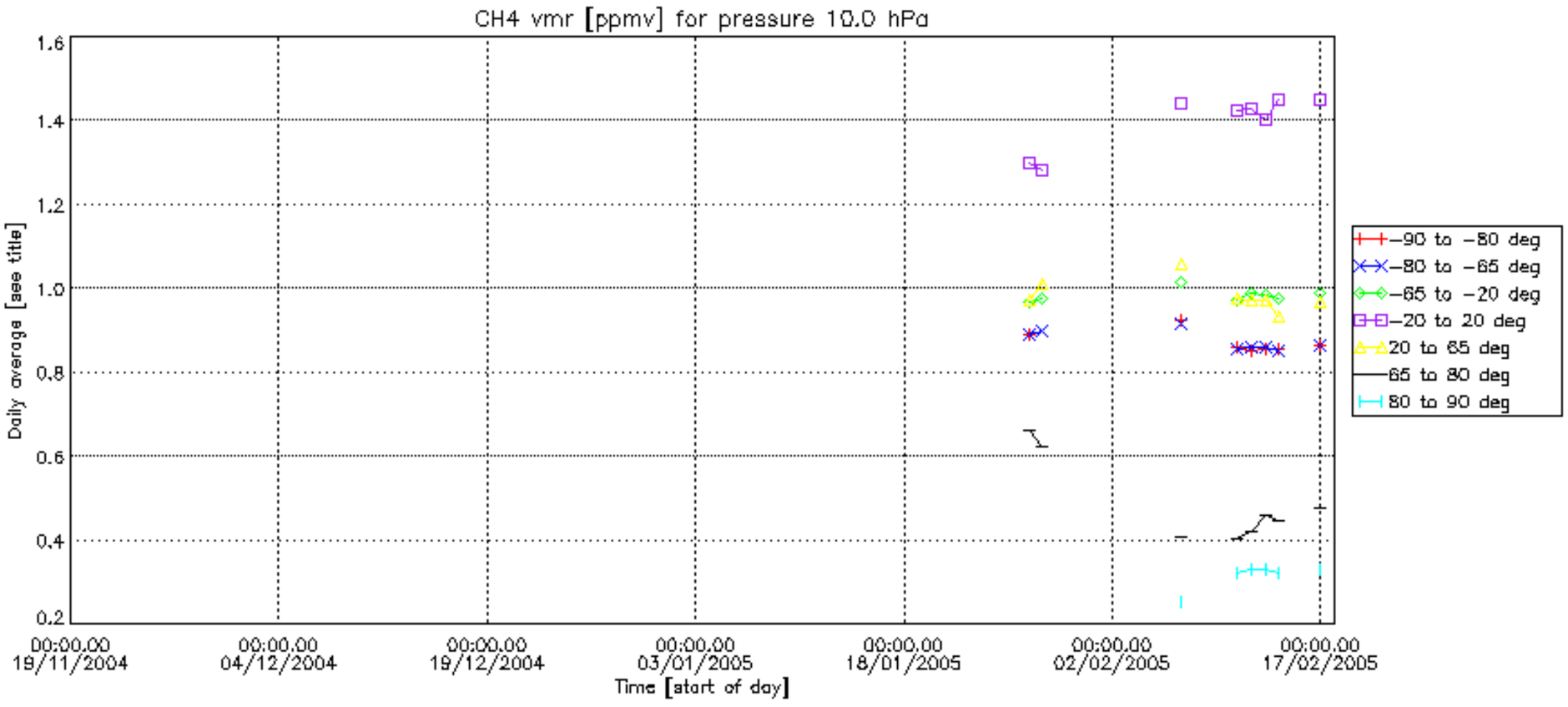

Temperature [K] for pressure 10.0 hPa
250
240
230
220
210
200
Daily average [see title]
00:00.00
19/11/2004
00:00.00
04/12/2004
00:00.00
19/12/2004
00:00.00
03/01/2005
00:00.00
18/01/2005
00:00.00
02/02/2005
00:00.00
17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

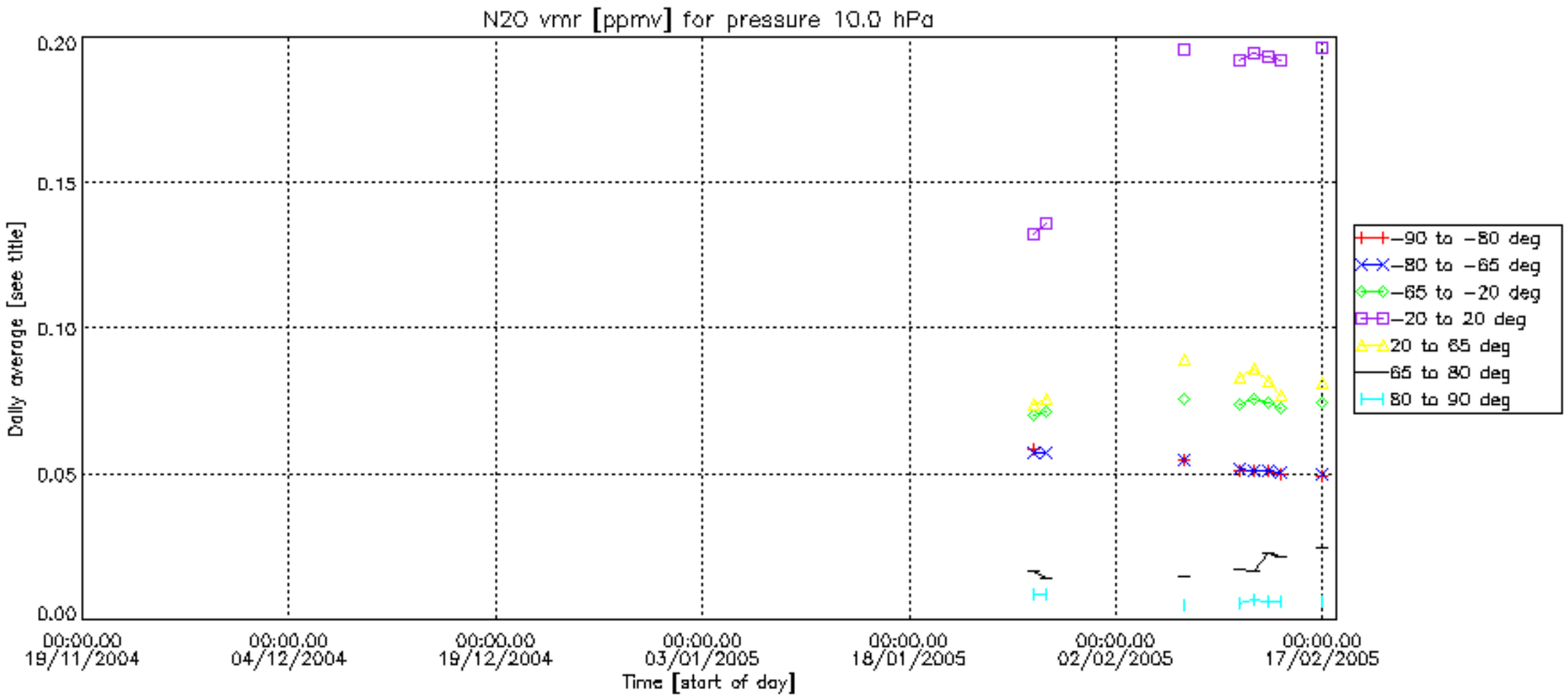

Tangent altitude [km] for pressure 10.0 hPa
Daily average [see title]
32.0
31.5
31.0
30.5
30.0
29.5
29.0
28.5
28.0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

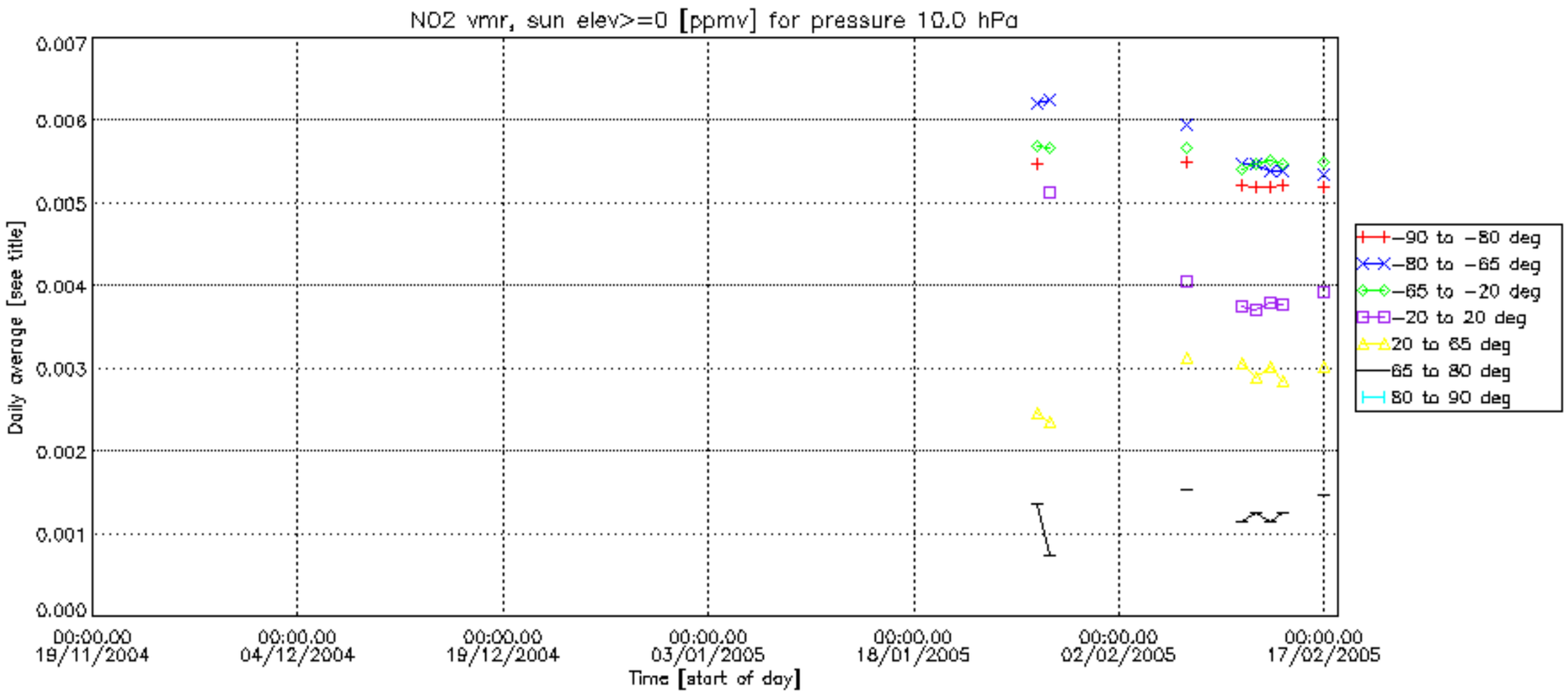

H2O vmr [ppmv] for pressure 10.0 hPa
7.0
6.5
6.0
5.5
5.0
4.5
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

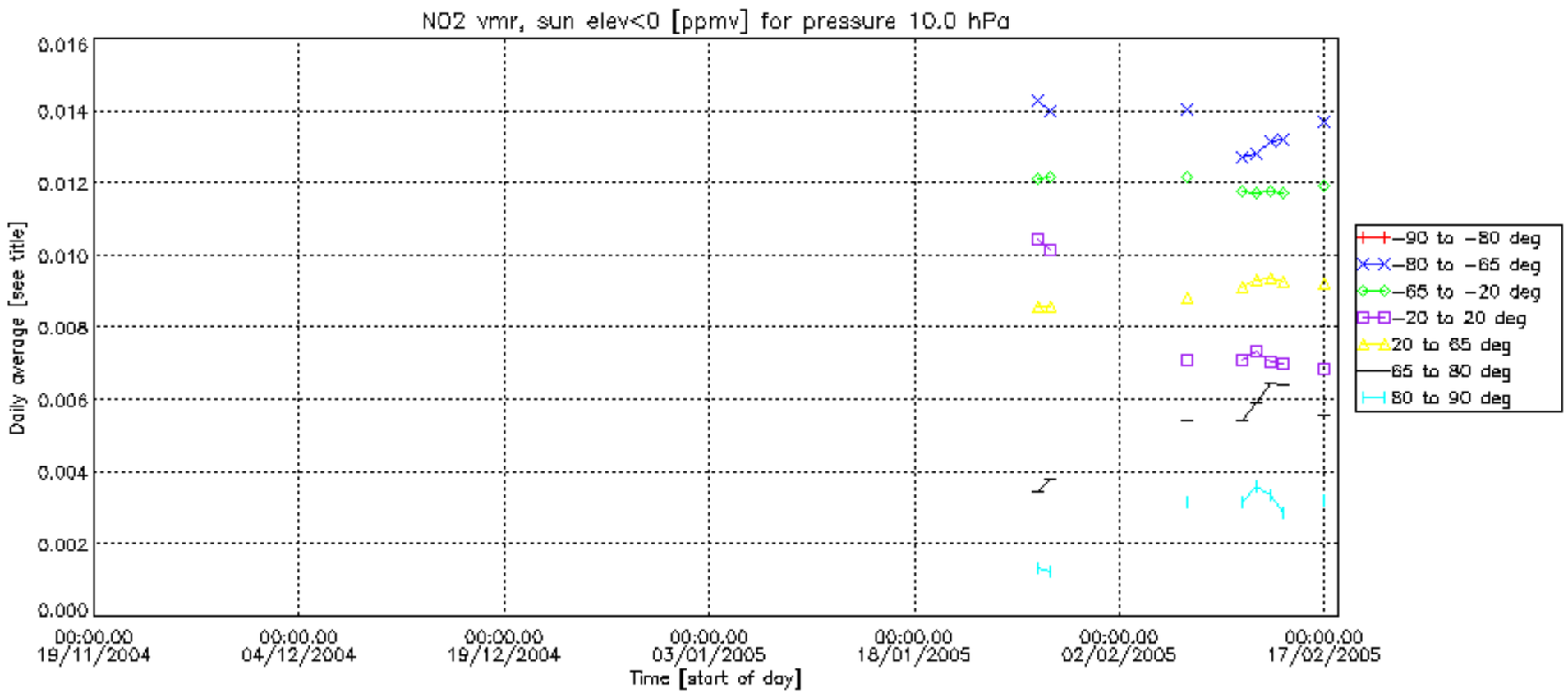

O3 vmr [ppmv] for pressure 10.0 hPa
Daily average [see title]
11
10
9
8
7
6
5
4
3
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

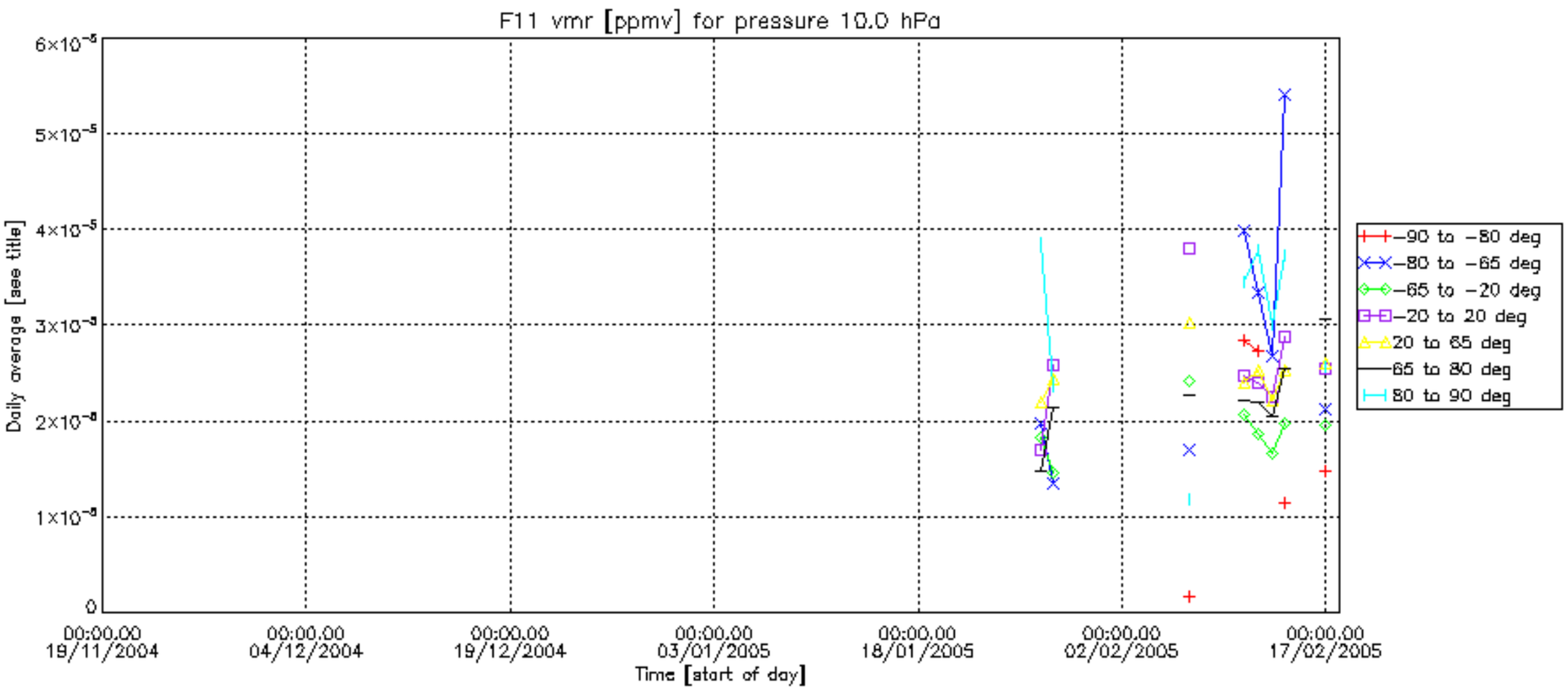

HNO3 vmr [ppmv] for pressure 10.0 hPa
0.0050
0.0045
0.0040
0.0035
0.0030
0.0025
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

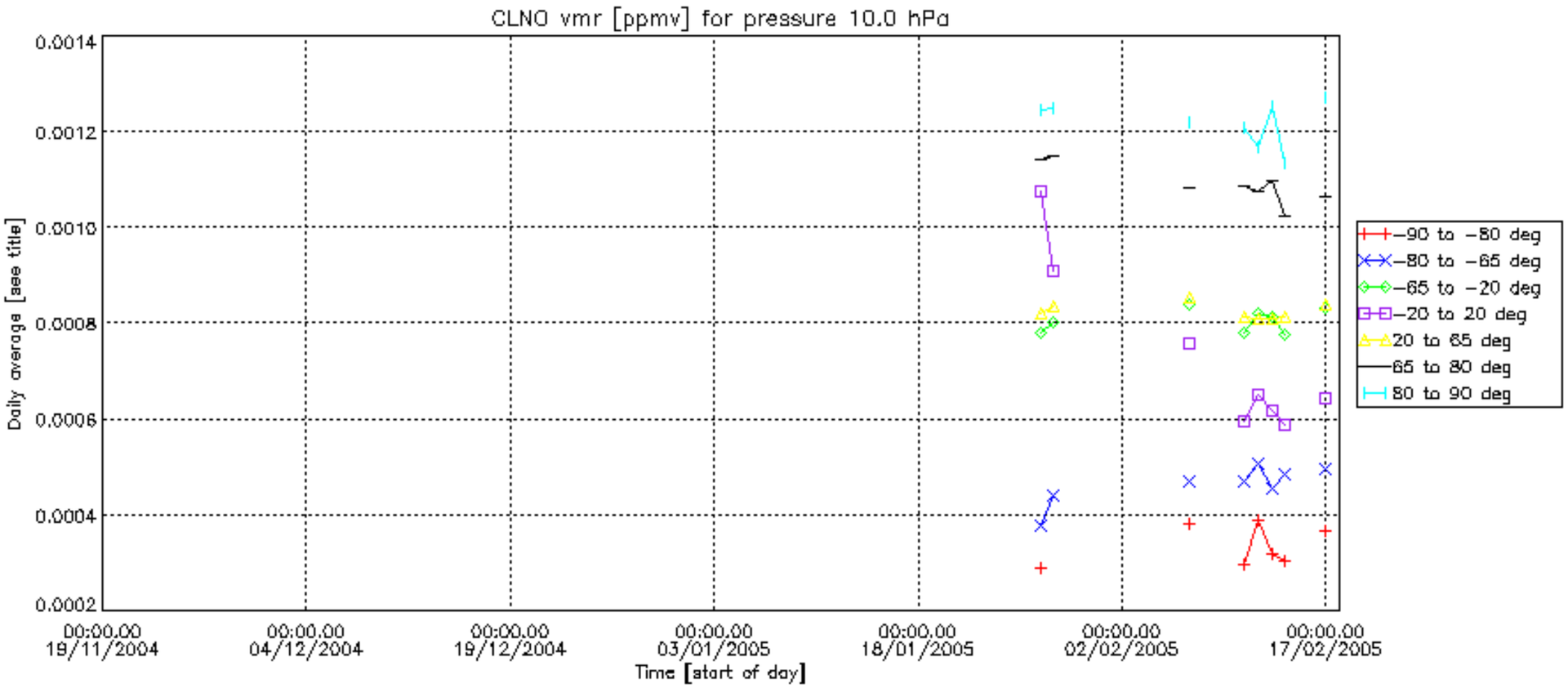

CH4 vmr [ppmv] for pressure 10.0 hPa
Daily average [see title]
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

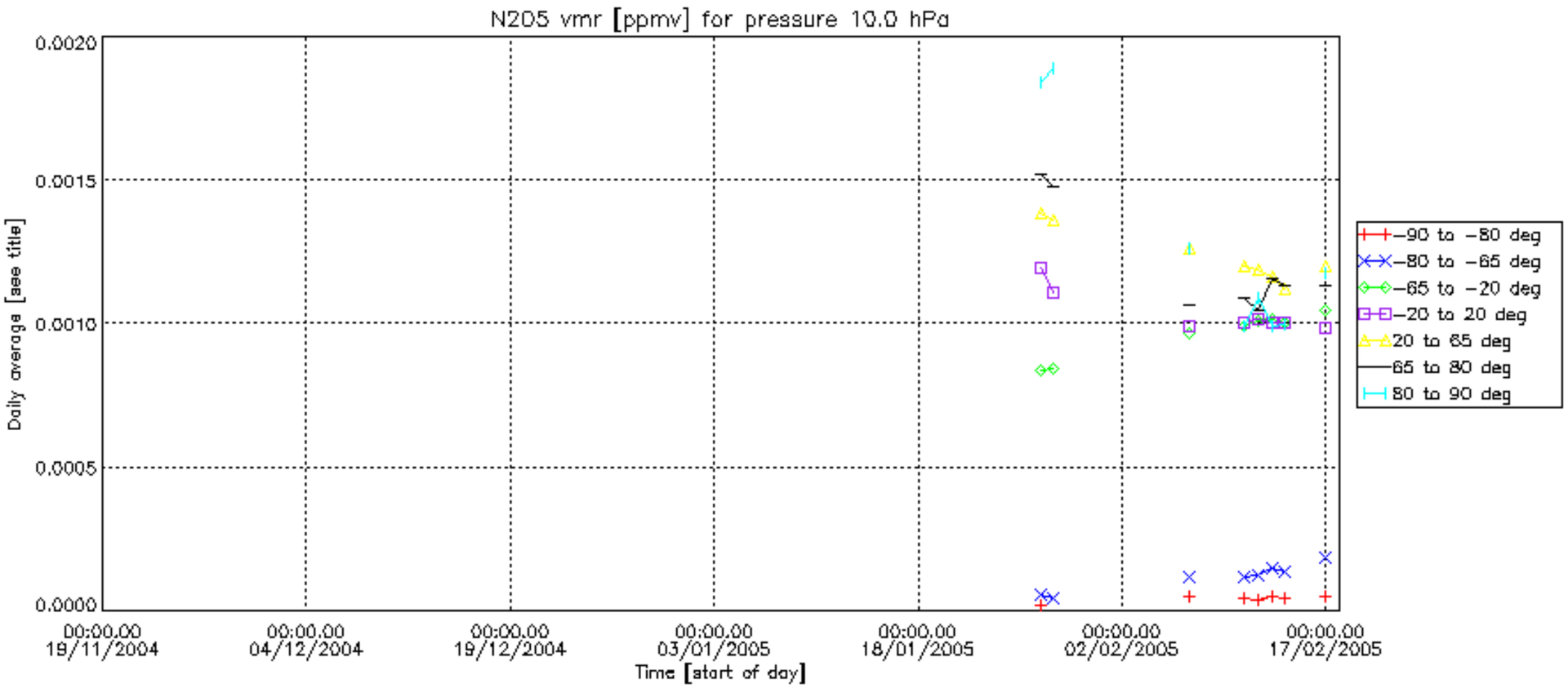

N2O vmr [ppmv] for pressure 10.0 hPa
Daily average [see title]
0.20
0.15
0.10
0.05
0.00
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

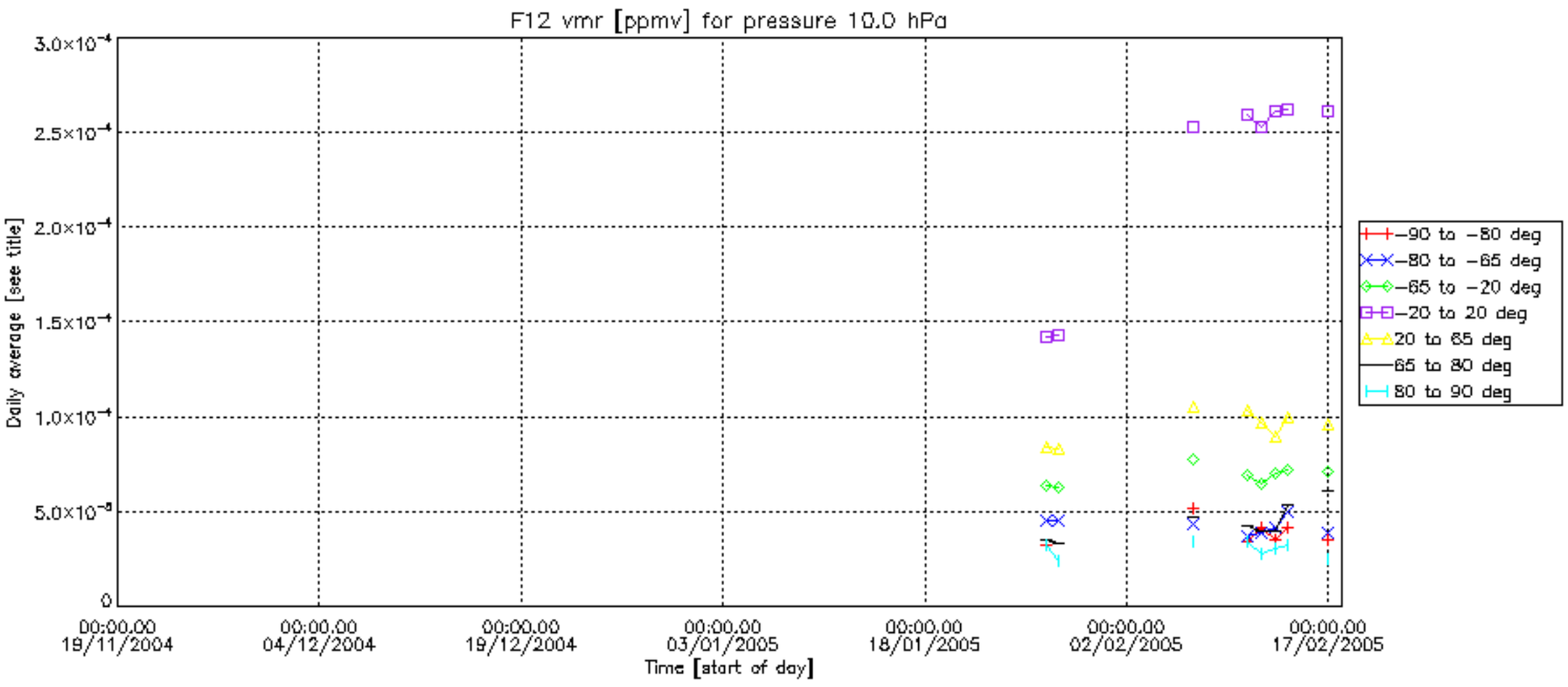

NO2 vmr, sun elev>=0 [ppmv] for pressure 10.0 hPa
Daily average [see title]
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

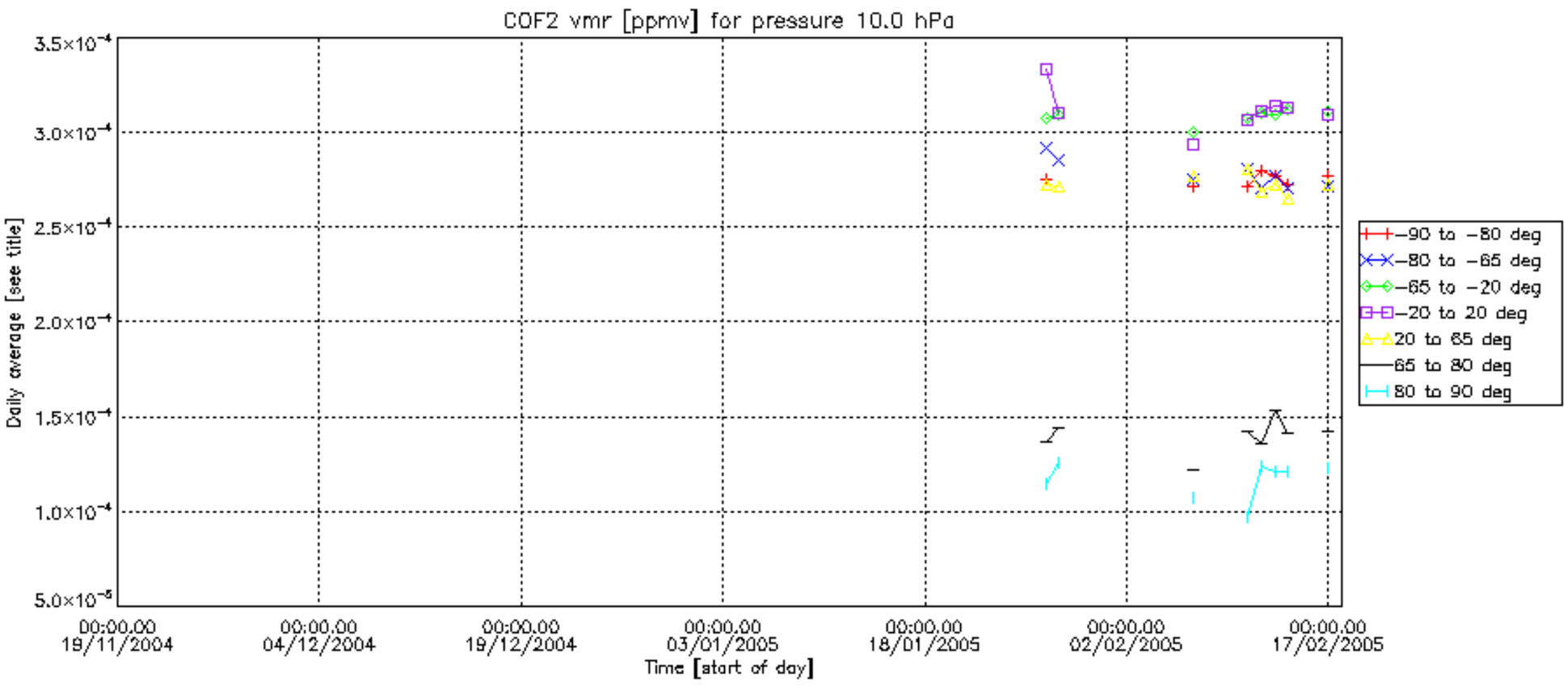

NO2 vmr, sun elev<0 [ppmv] for pressure 10.0 hPa
Daily average [see title]
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

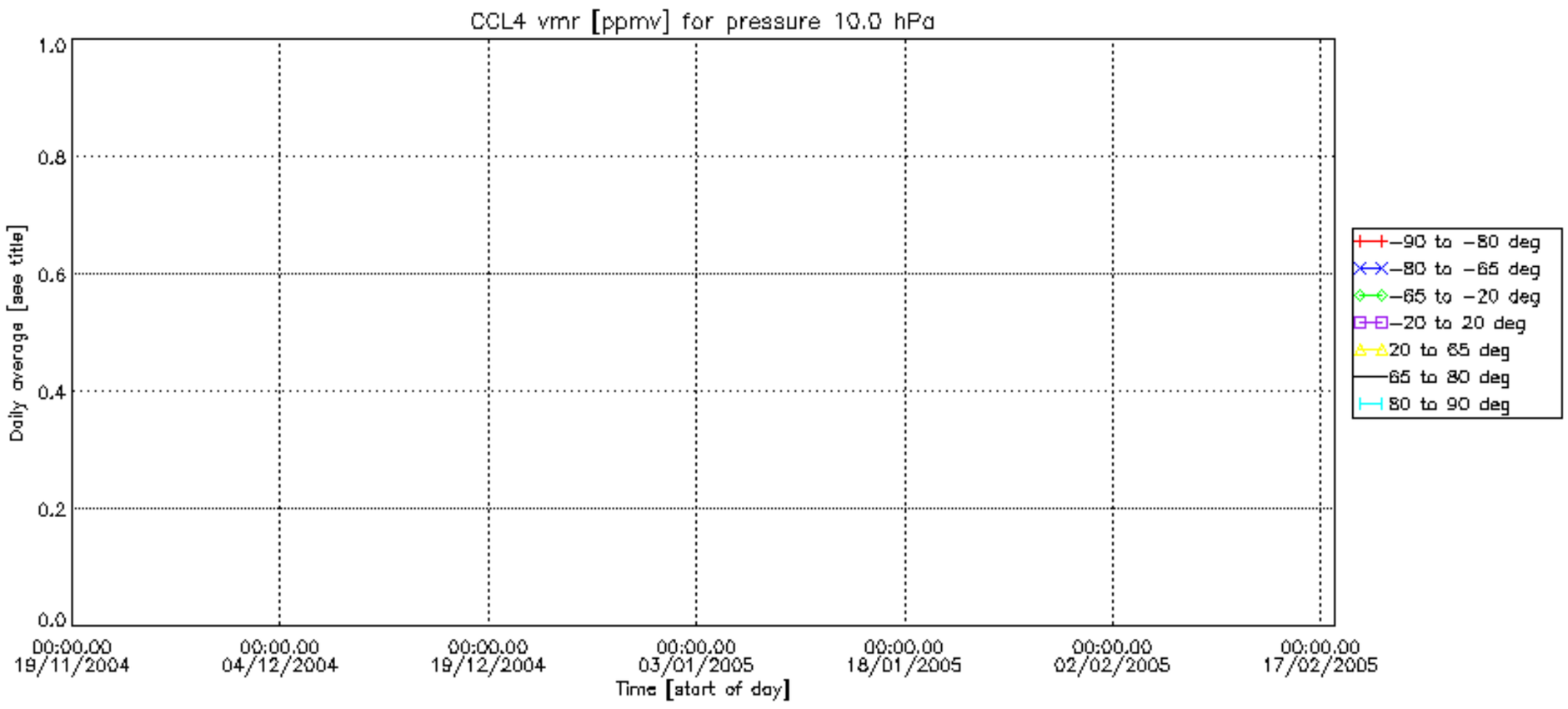

F11 vmr [ppmv] for pressure 10.0 hPa
6×10⁻⁵
5×10⁻⁵
4×10⁻⁵
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

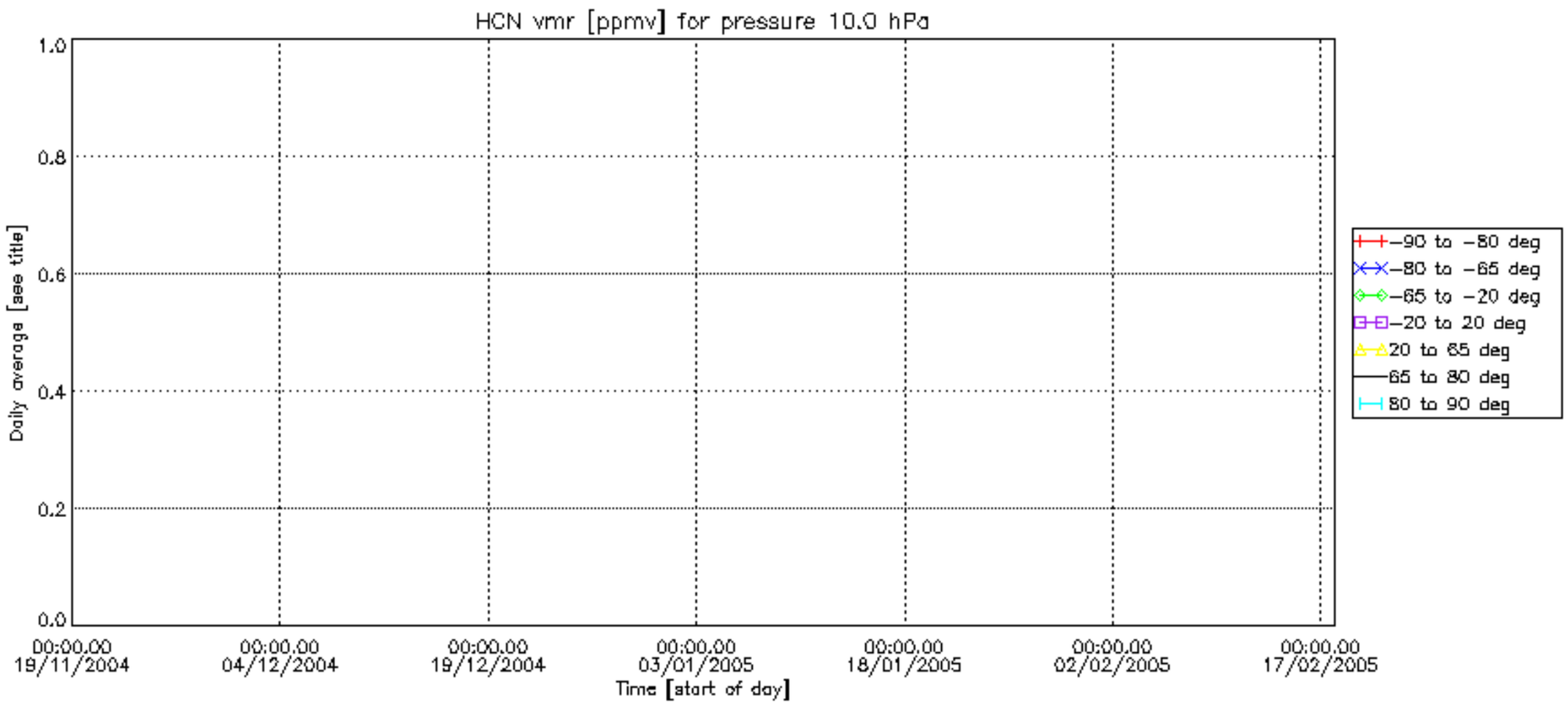

CLNO vmr [ppmv] for pressure 10.0 hPa
Daily average [see title]
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

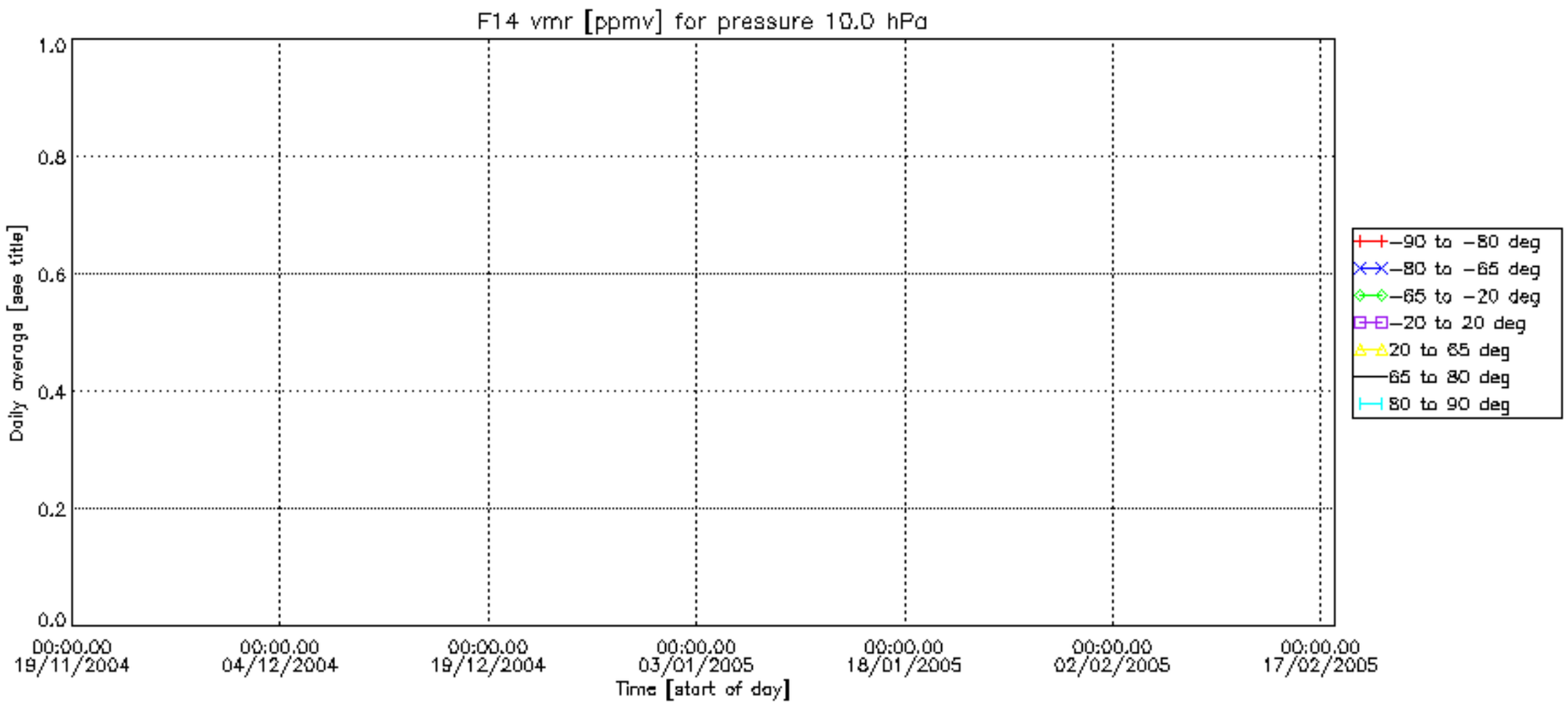

N2O5 vmr [ppmv] for pressure 10.0 hPa
Daily average [see title]
0.0020
0.0015
0.0010
0.0005
0.0000
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

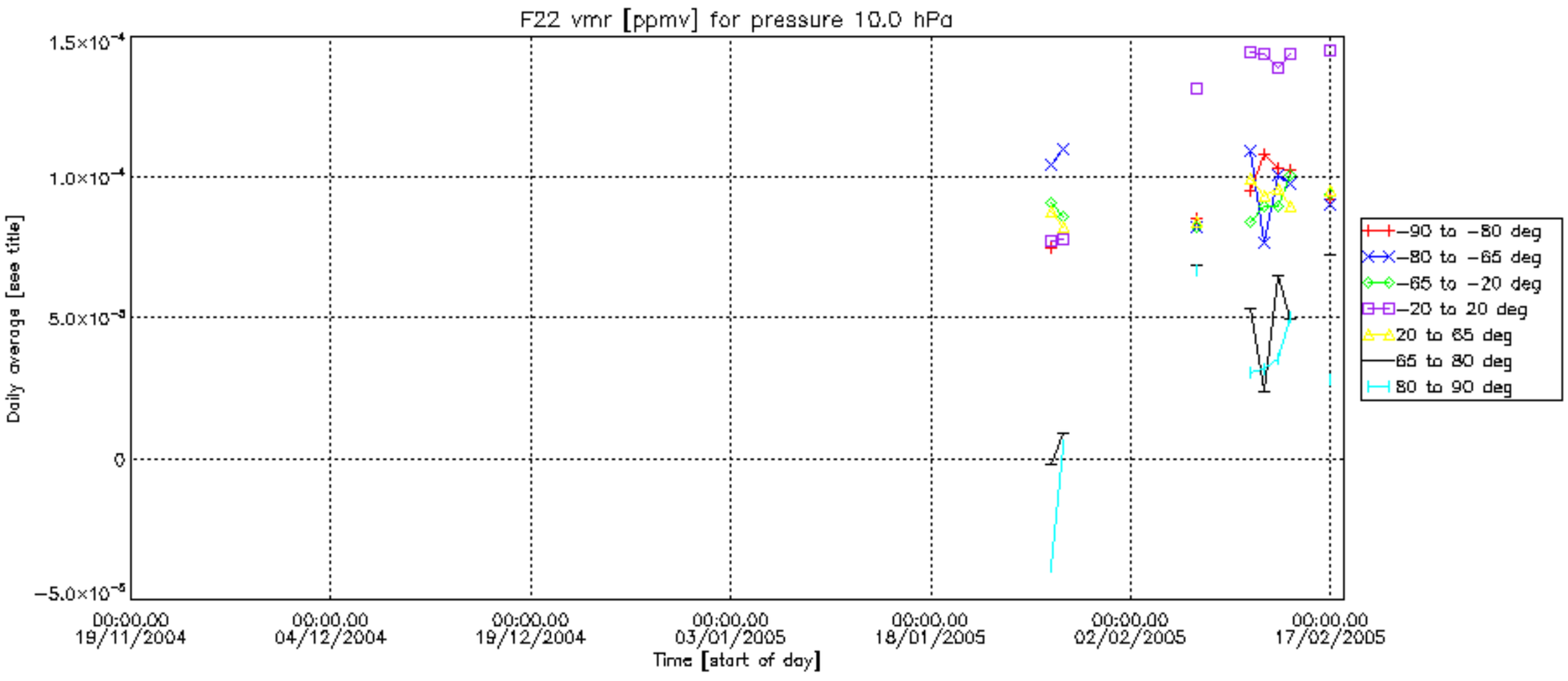

F12 vmr [ppmv] for pressure 10.0 hPa
3.0×10⁻⁴
2.5×10⁻⁴
2.0×10⁻⁴
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

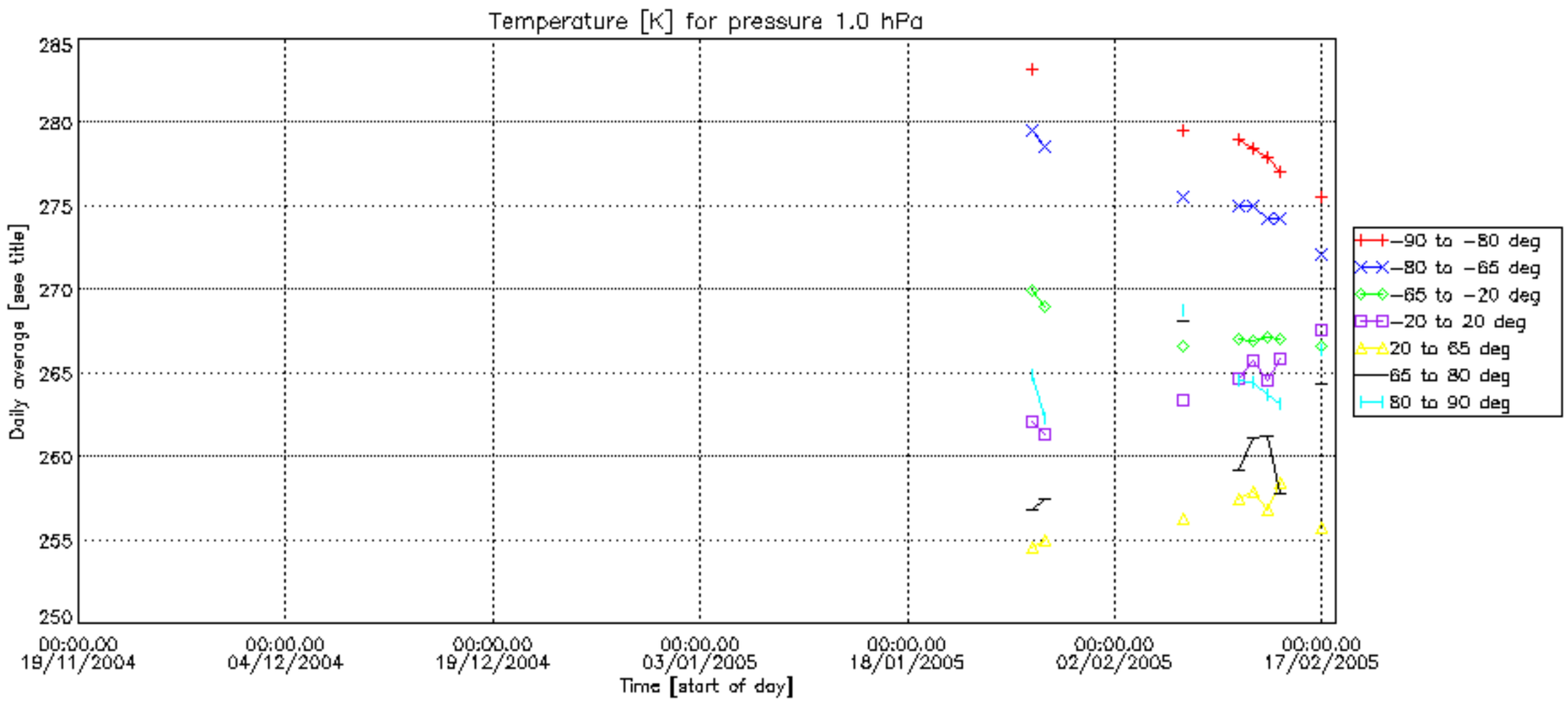

COF2 vmr [ppmv] for pressure 10.0 hPa
3.5×10⁻⁴
3.0×10⁻⁴
2.5×10⁻⁴
2.0×10⁻⁴
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

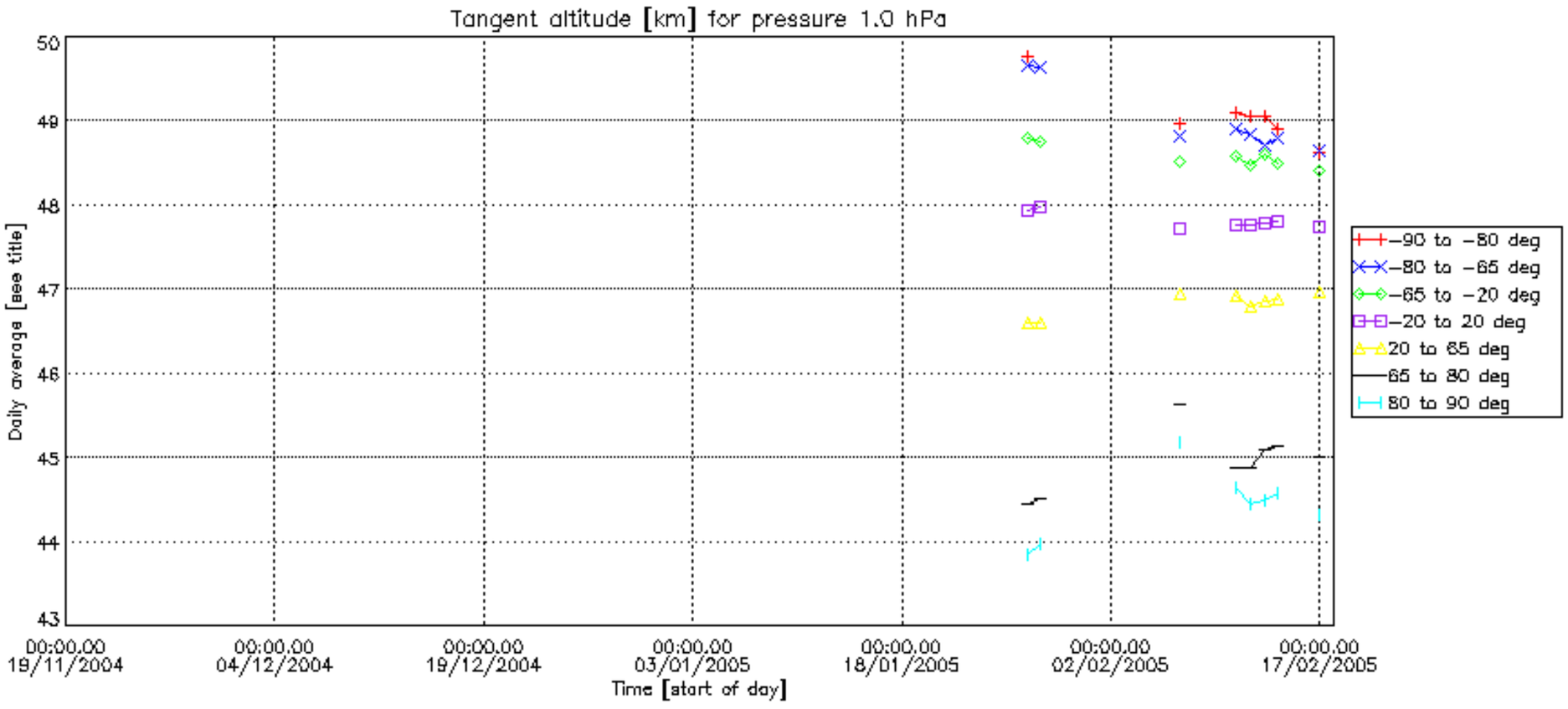

CCL4 vmr [ppmv] for pressure 10.0 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

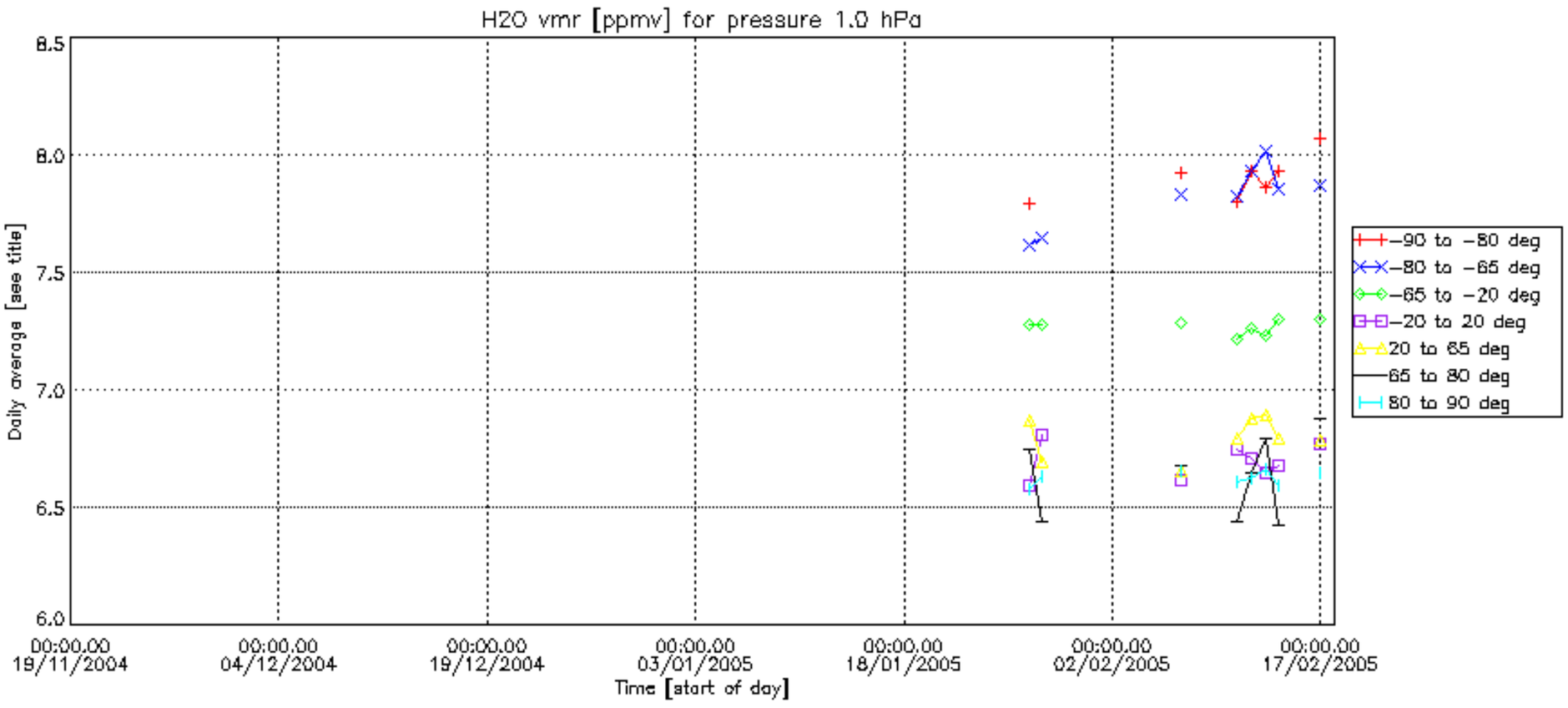

HCN vmr [ppmv] for pressure 10.0 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

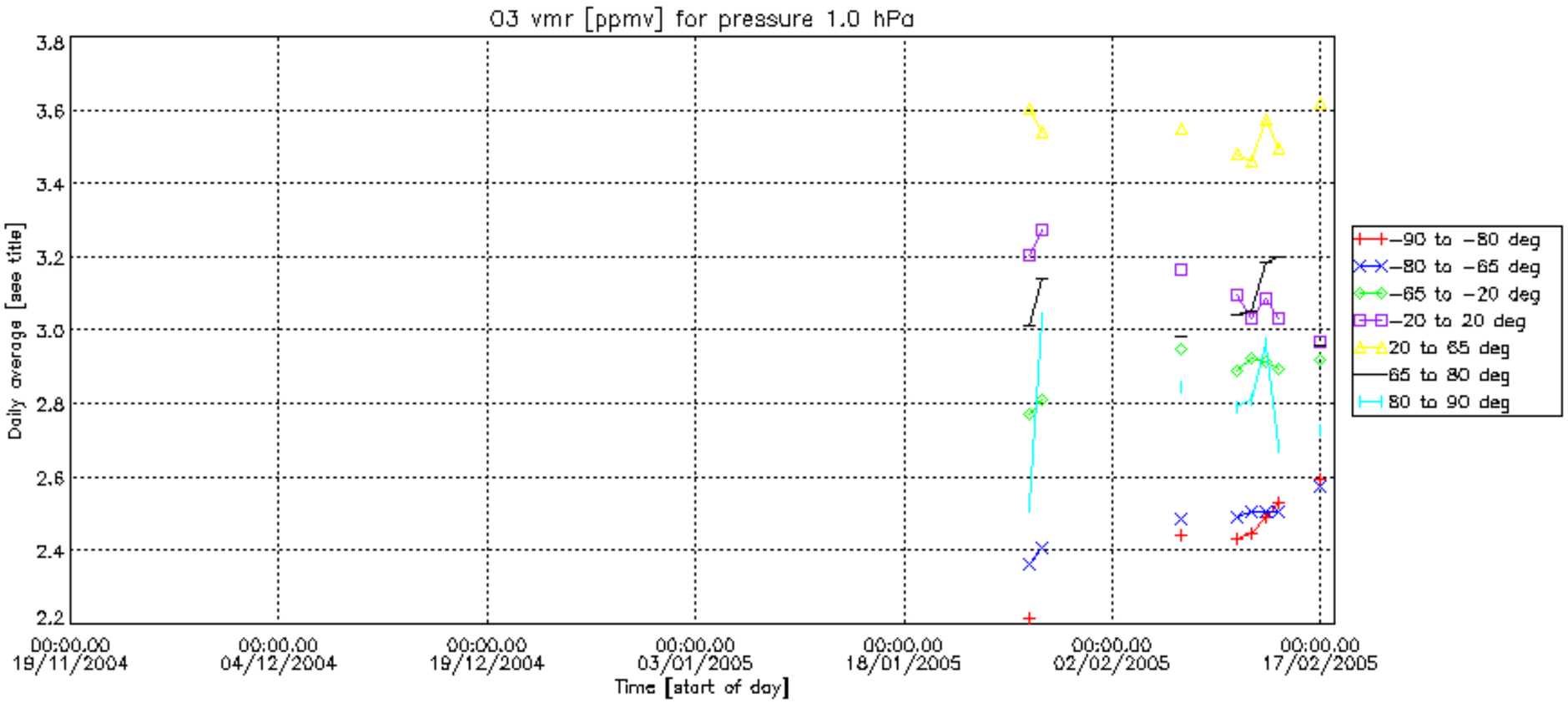

F14 vmr [ppmv] for pressure 10.0 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

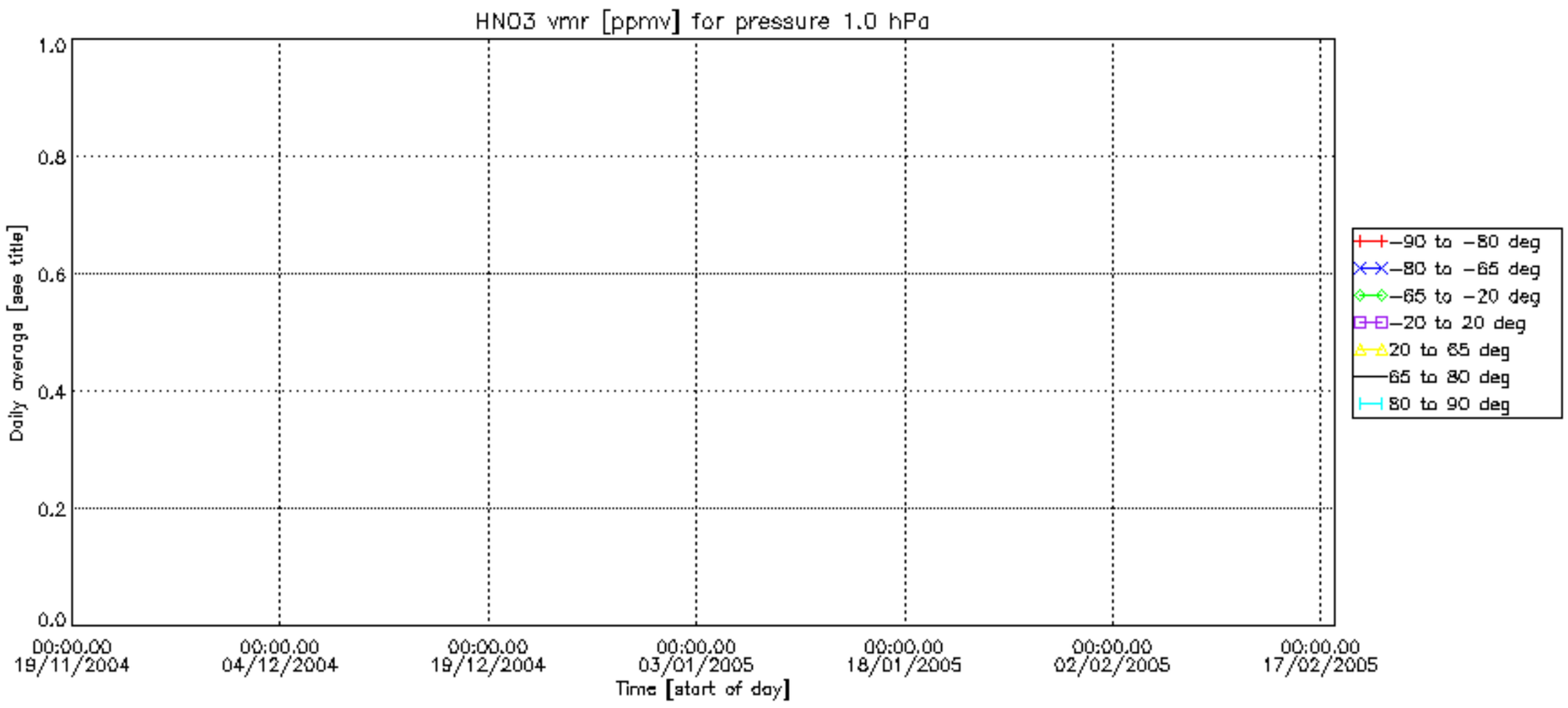

F22 vmr [ppmv] for pressure 10.0 hPa
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

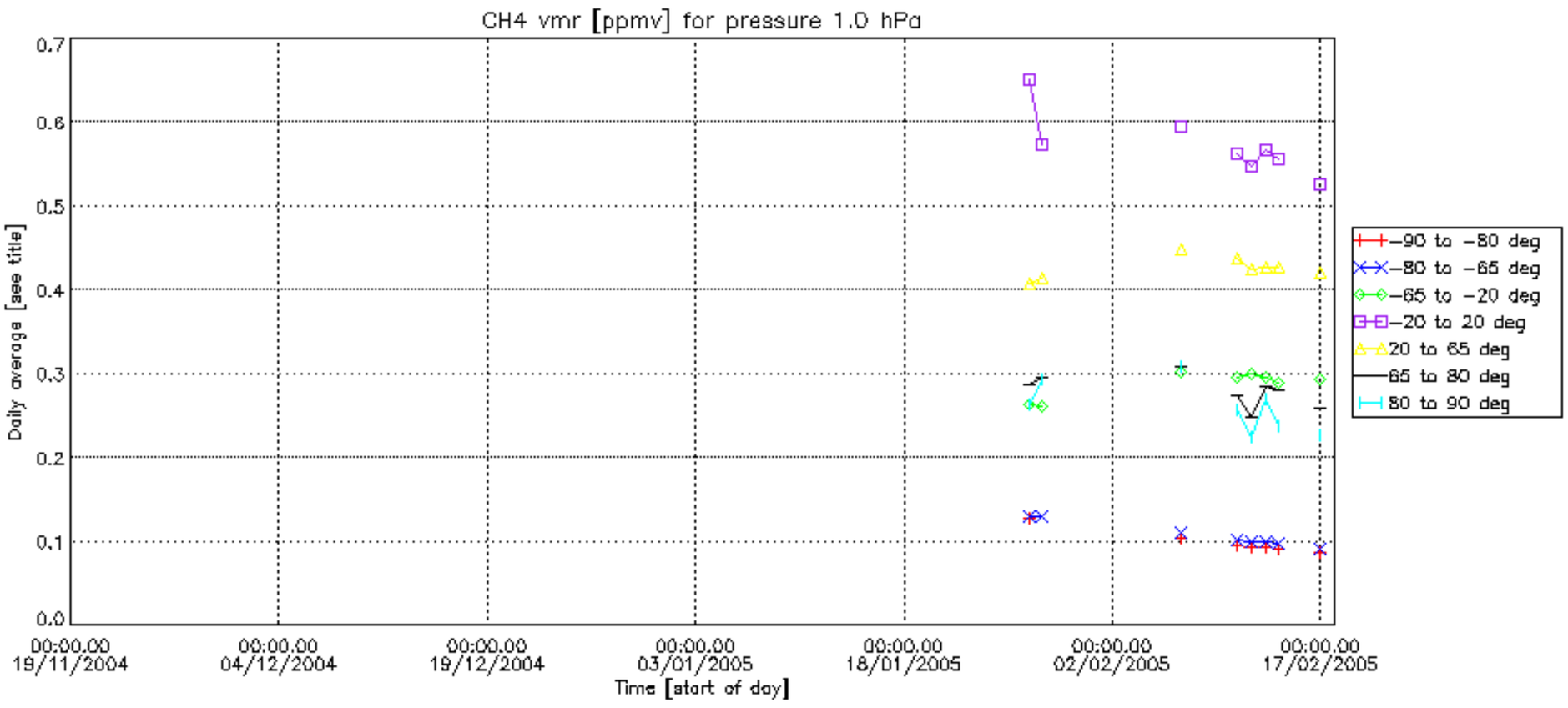

Temperature [K] for pressure 1.0 hPa
285
280
275
270
265
260
255
250
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

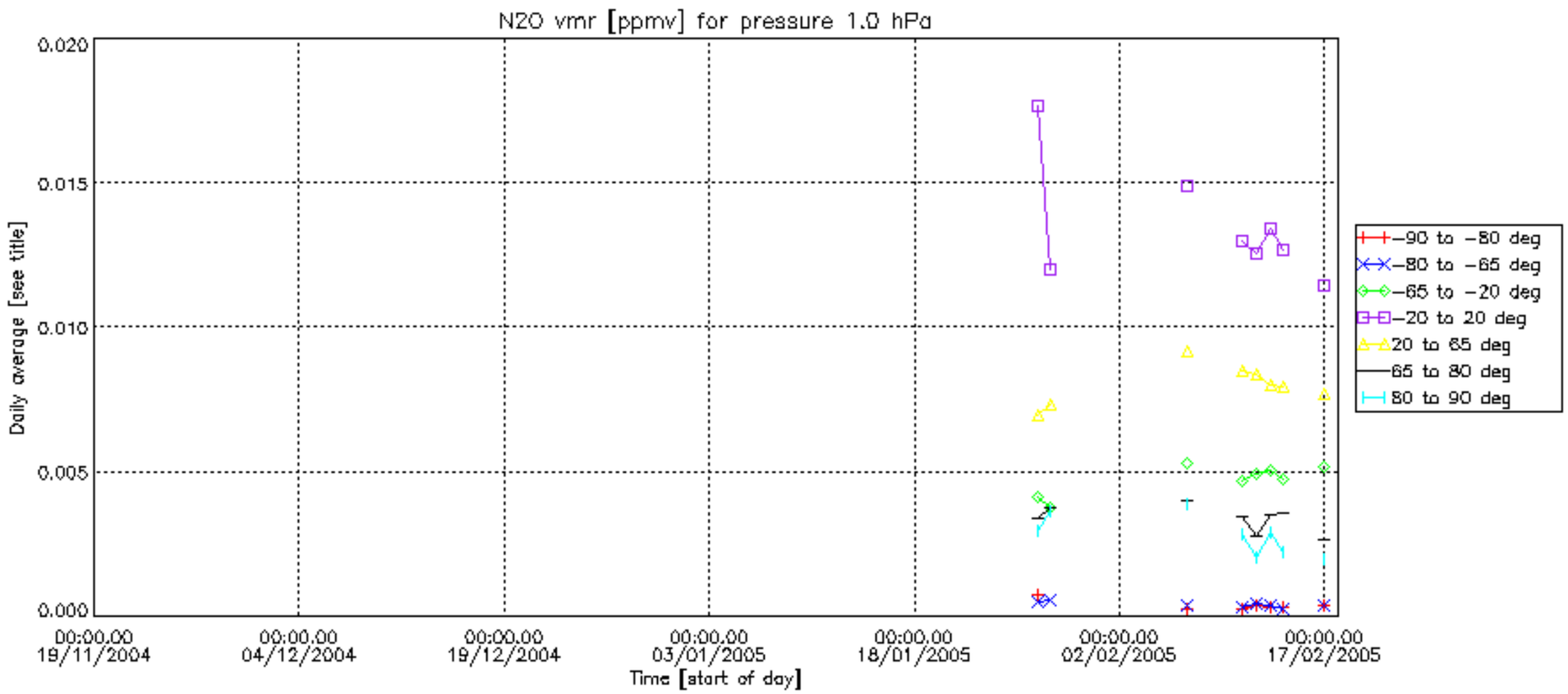

Tangent altitude [km] for pressure 1.0 hPa
Daily average [see title]
50
49
48
47
46
45
44
43
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

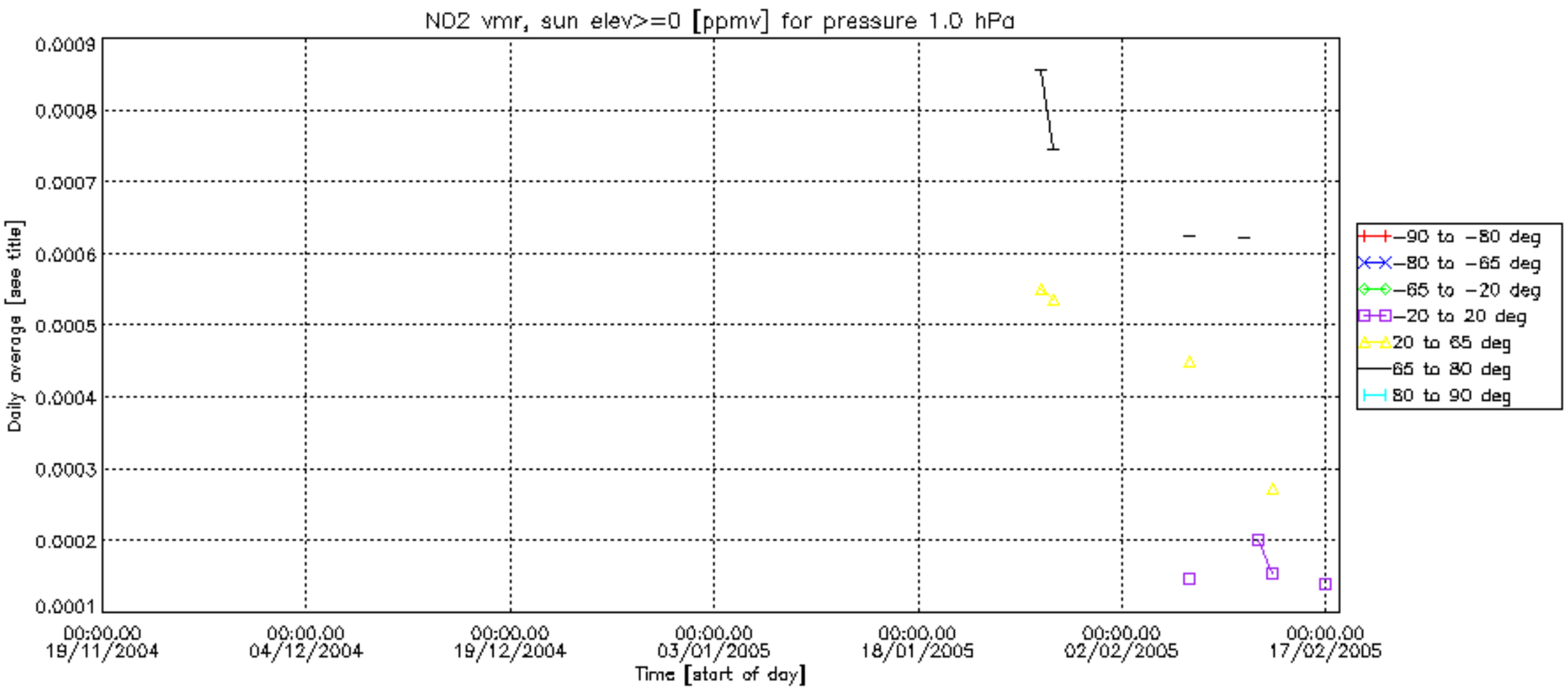

H2O vmr [ppmv] for pressure 1.0 hPa
8.5
8.0
7.5
7.0
6.5
6.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

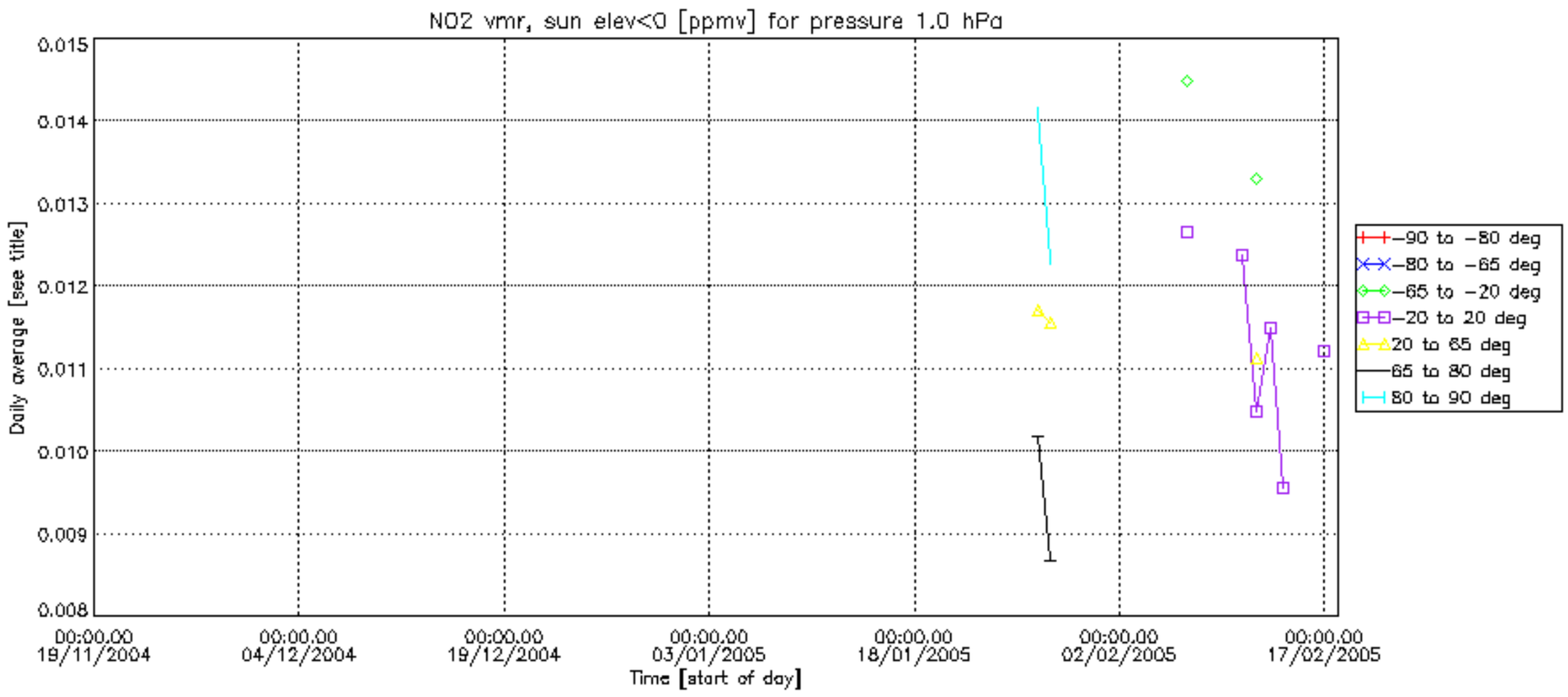

O3 vmr [ppmv] for pressure 1.0 hPa
Daily average [see title]
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

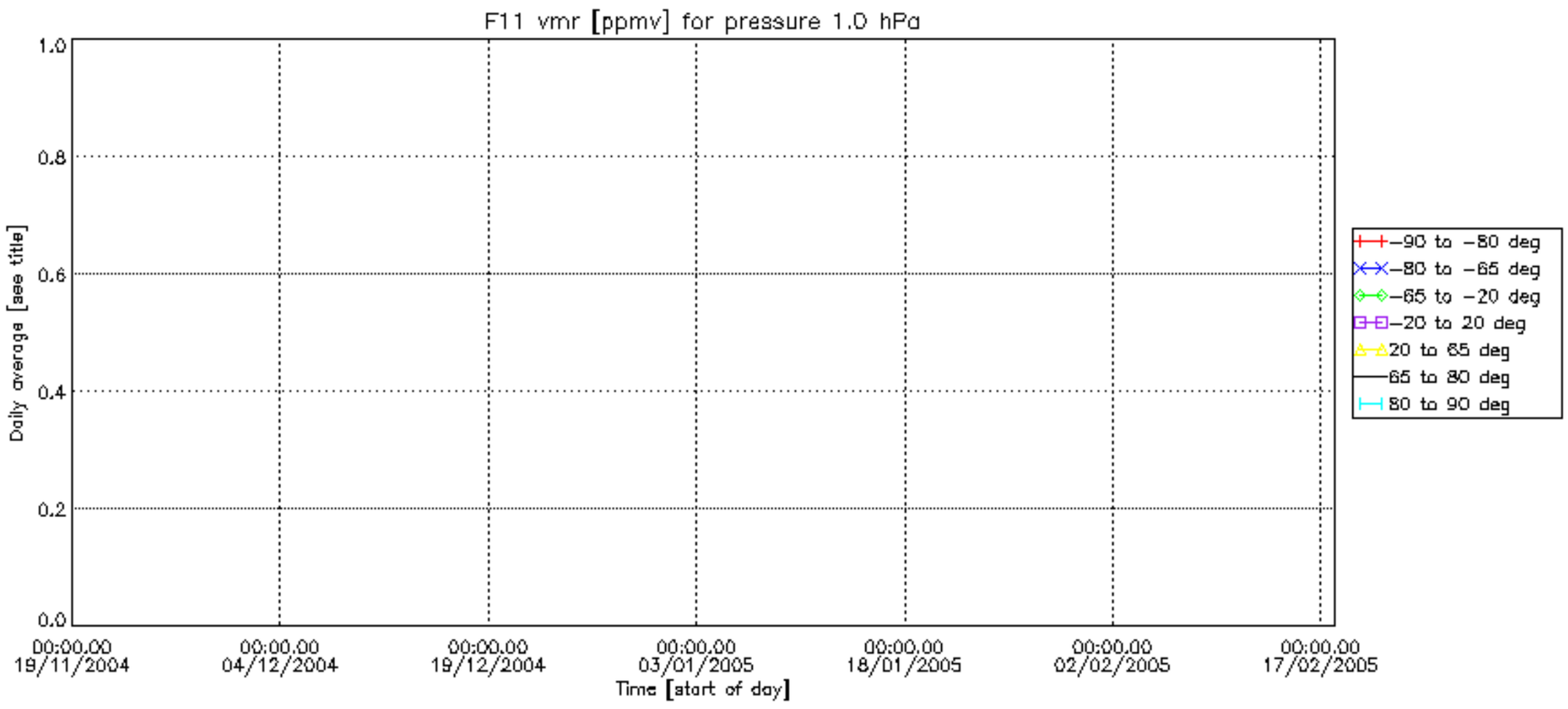

HNO3 vmr [ppmv] for pressure 1.0 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

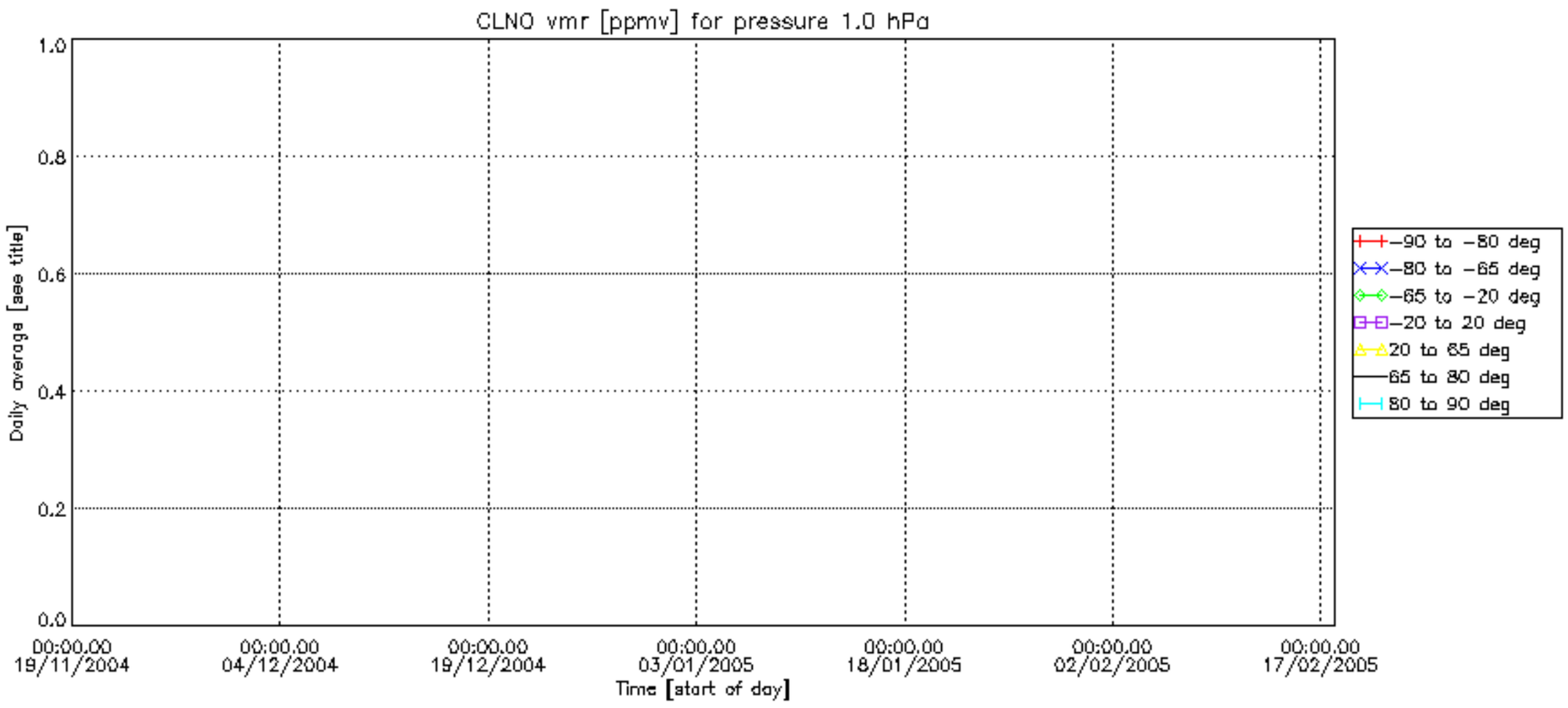

CH4 vmr [ppmv] for pressure 1.0 hPa
Daily average [see title]
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

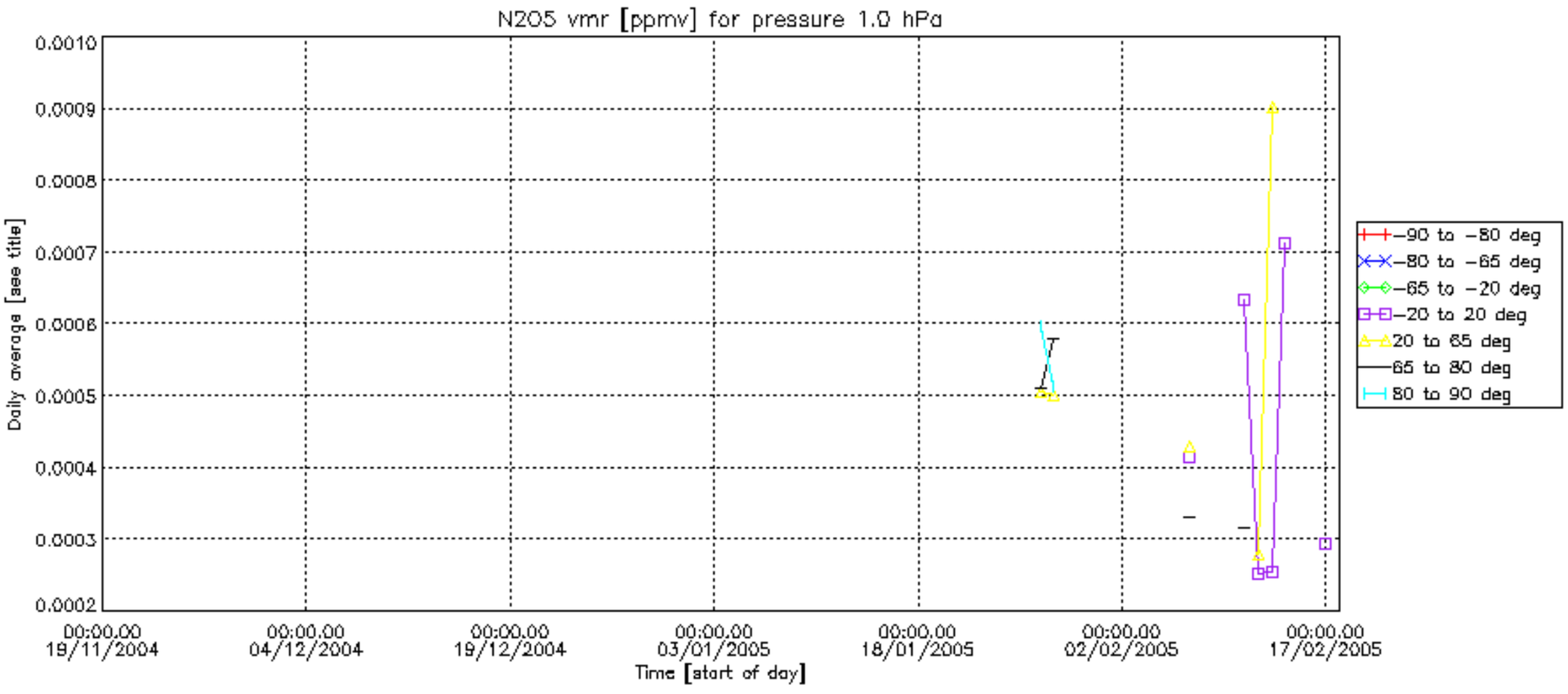

N2O vmr [ppmv] for pressure 1.0 hPa
Daily average [see title]
0.020
0.015
0.010
0.005
0.000
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

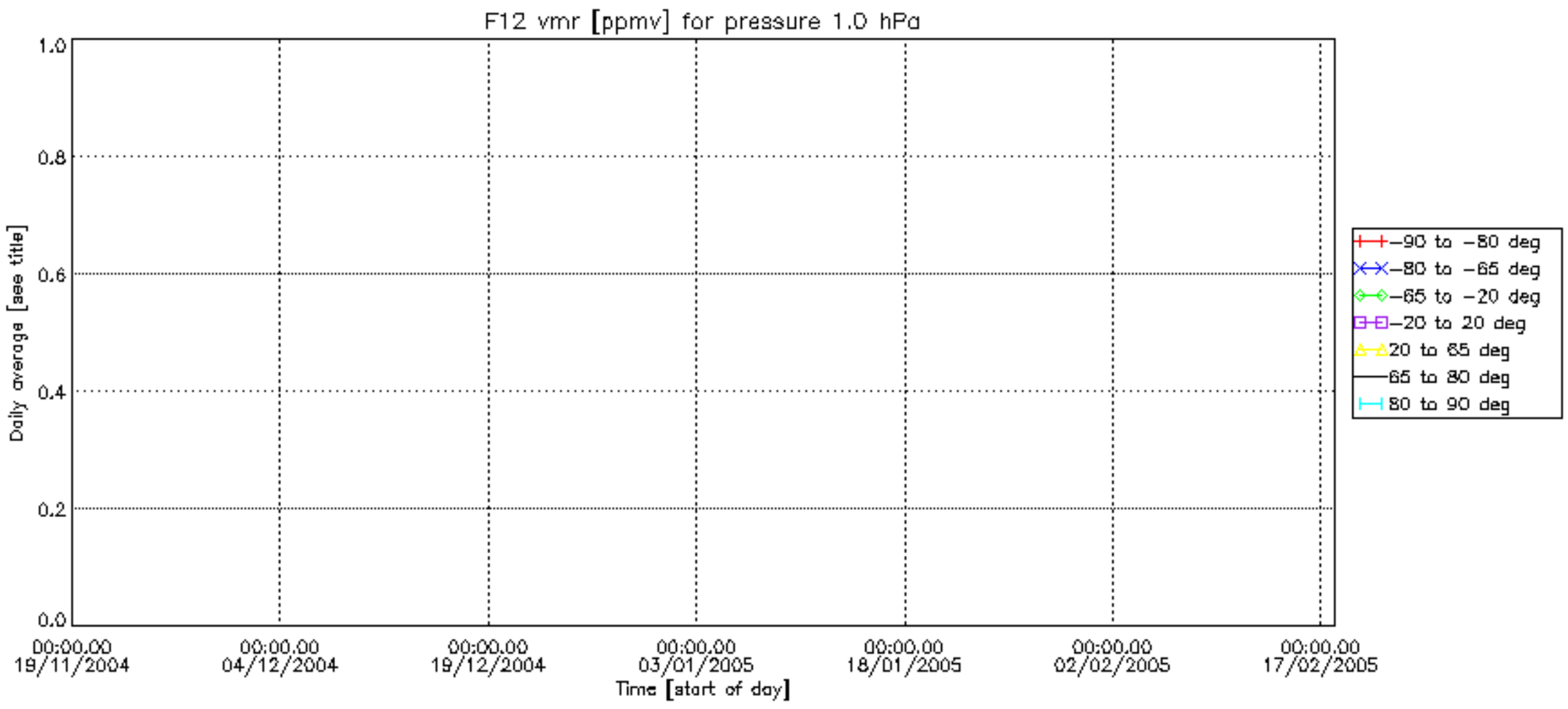

NO2 vmr, sun elev>=0 [ppmv] for pressure 1.0 hPa
Daily average [see title]
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

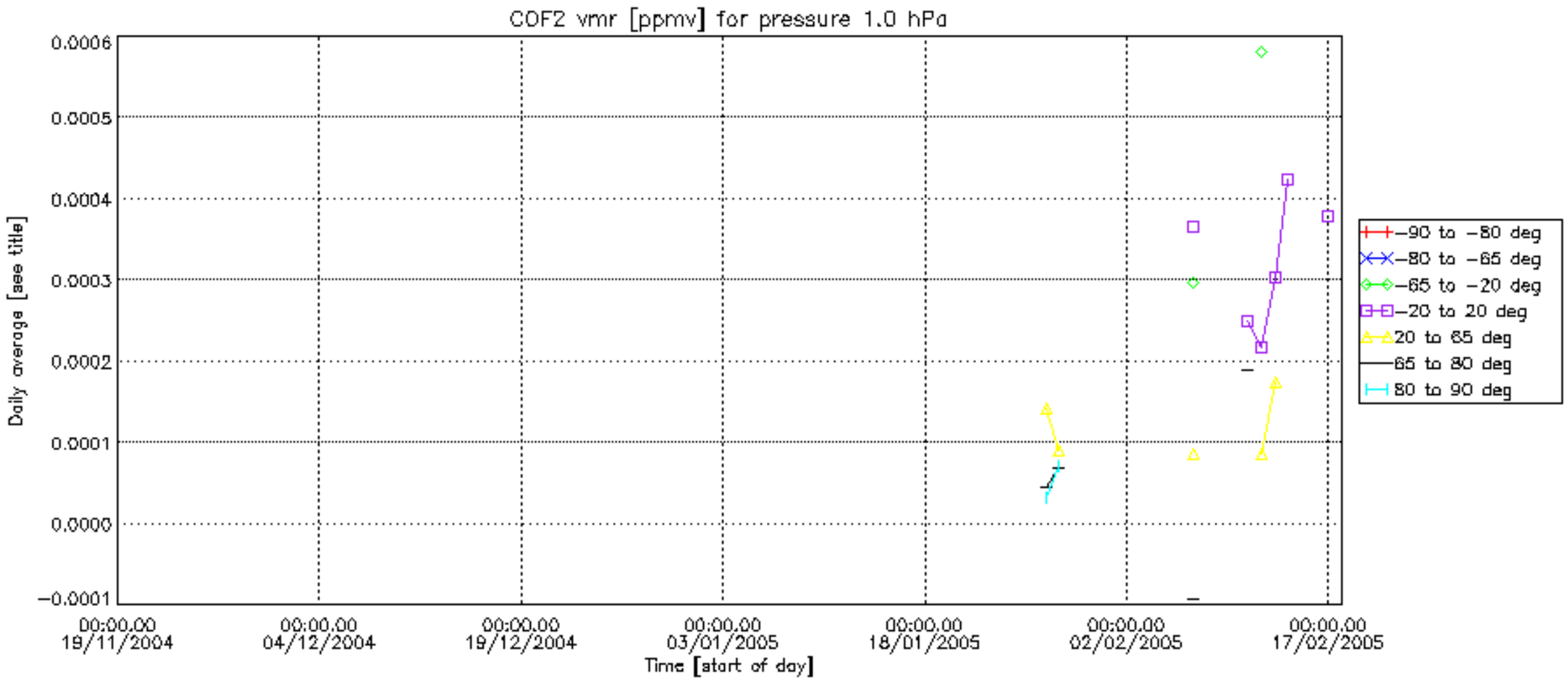

NO2 vmr, sun elev<0 [ppmv] for pressure 1.0 hPa
Daily average [see title]
0.015
0.014
0.013
0.012
0.011
0.010
0.009
0.008
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

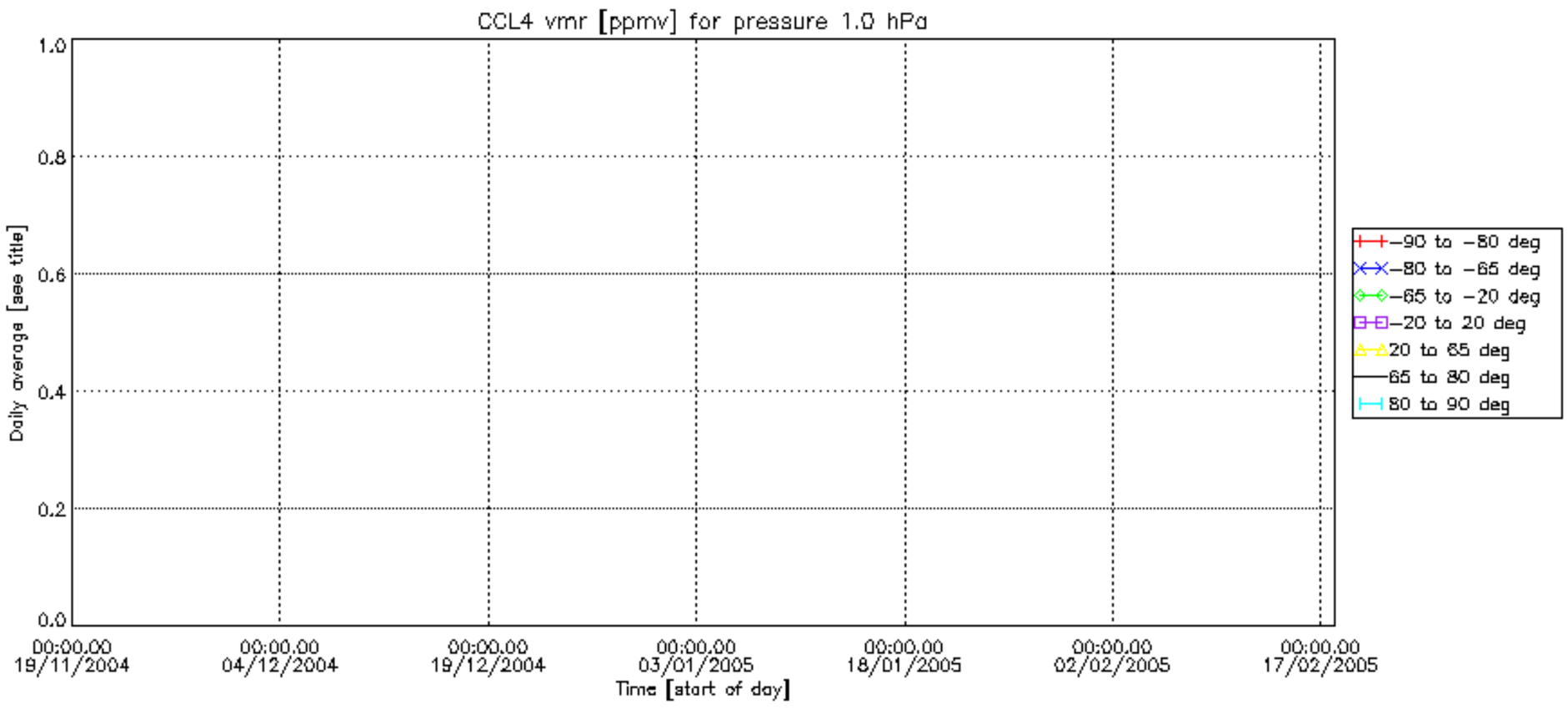

F11 vmr [ppmv] for pressure 1.0 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

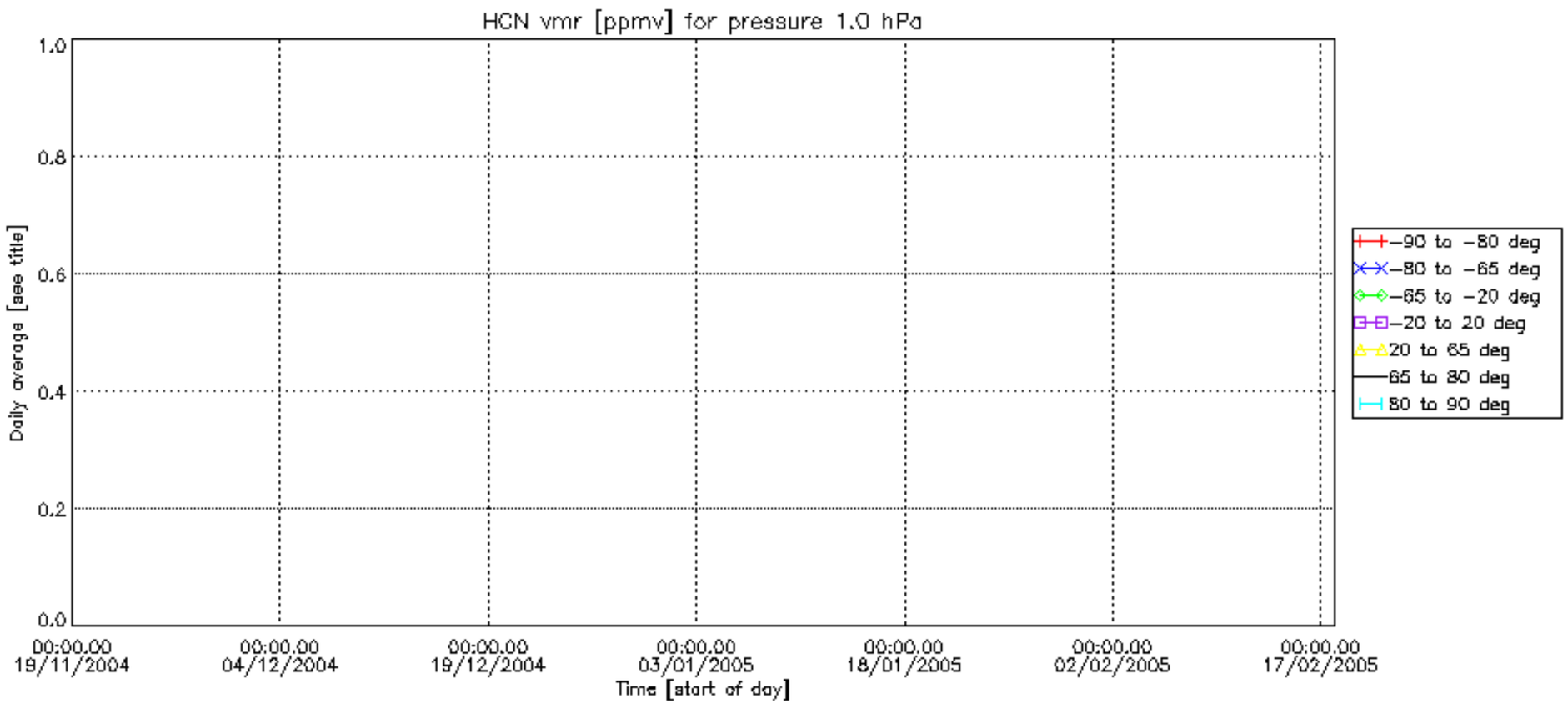

CLNO vmr [ppmv] for pressure 1.0 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


N2O5 vmr [ppmv] for pressure 1.0 hPa
0.0010
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


F12 vmr [ppmv] for pressure 1.0 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


COF2 vmr [ppmv] for pressure 1.0 hPa
Daily average [see title]
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
−0.0001
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


CCL4 vmr [ppmv] for pressure 1.0 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


HCN vmr [ppmv] for pressure 1.0 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
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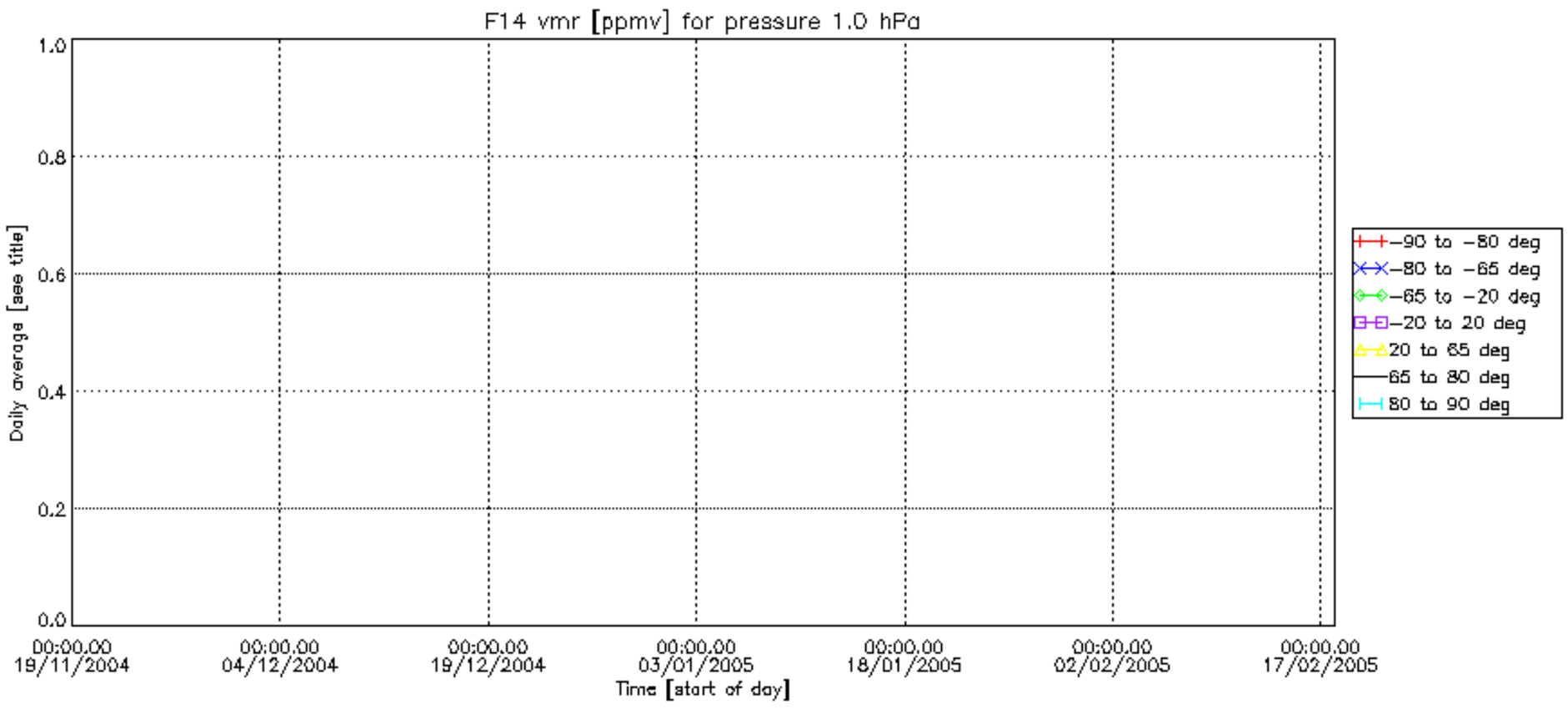
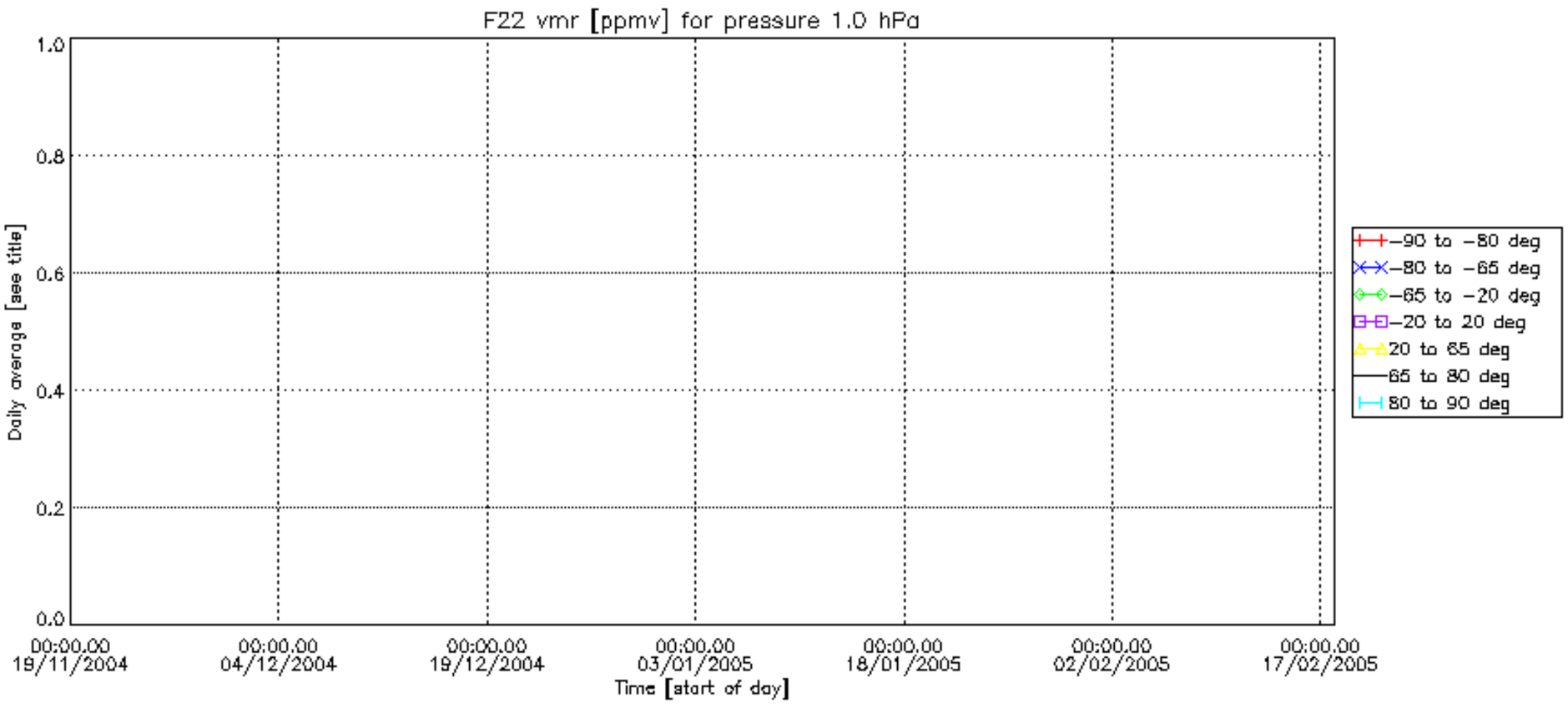
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


F14 vmr [ppmv] for pressure 1.0 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


F22 vmr [ppmv] for pressure 1.0 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
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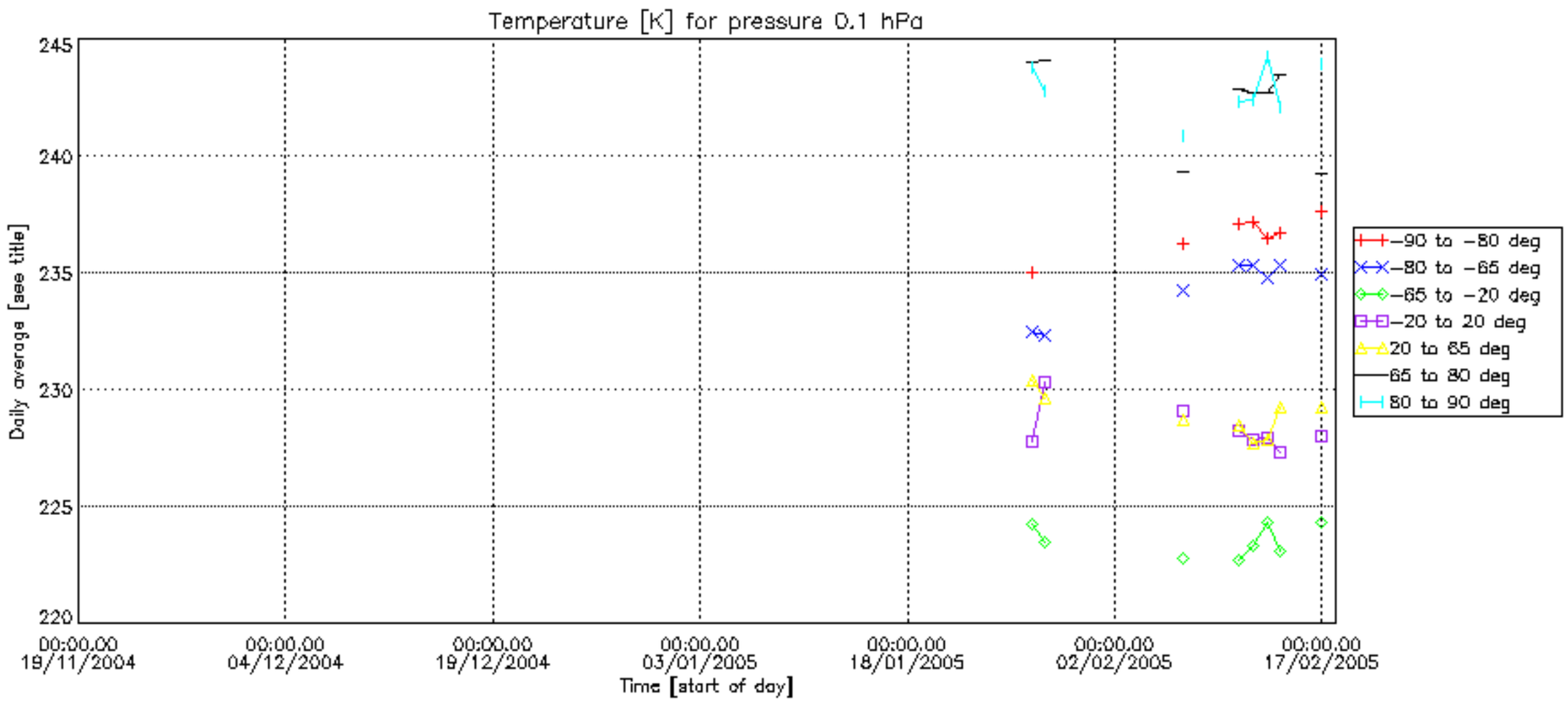
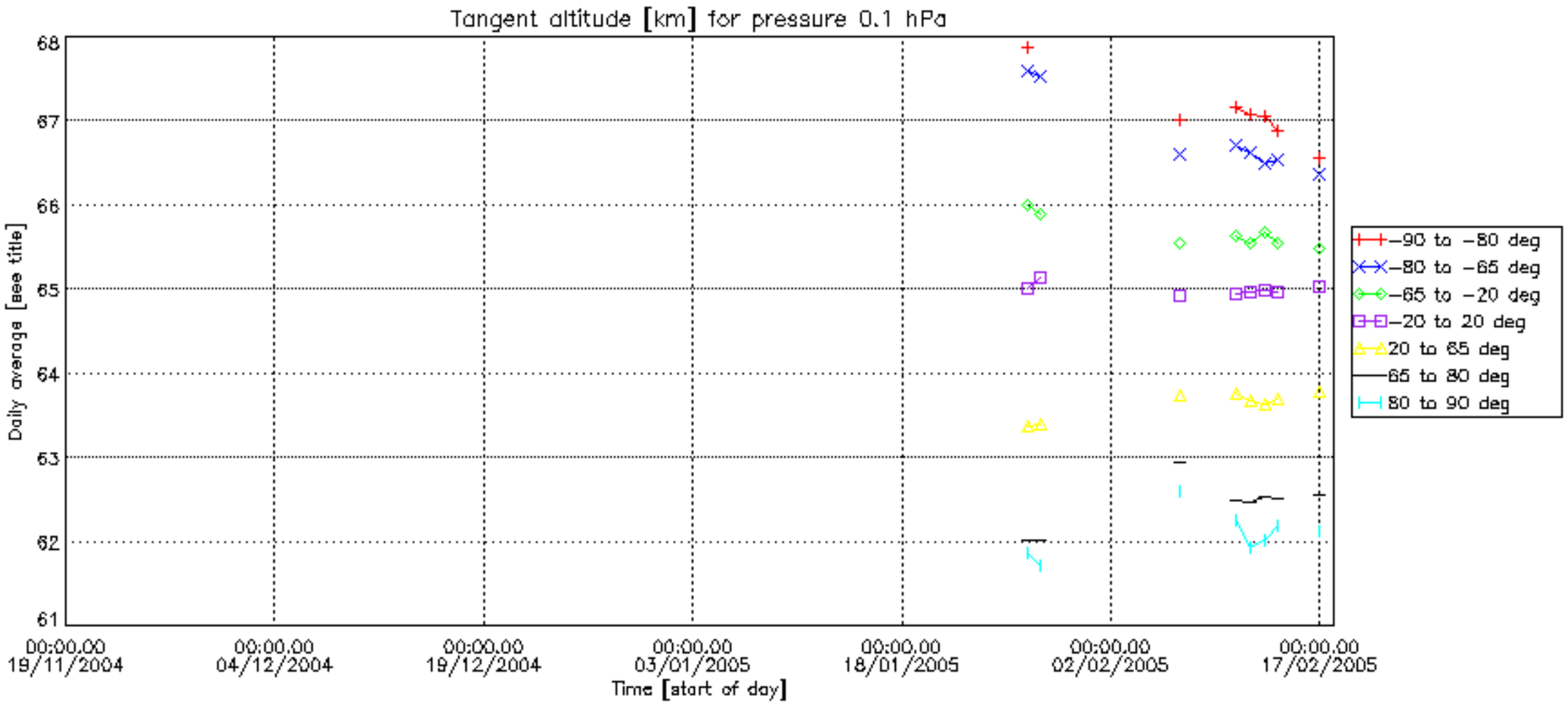
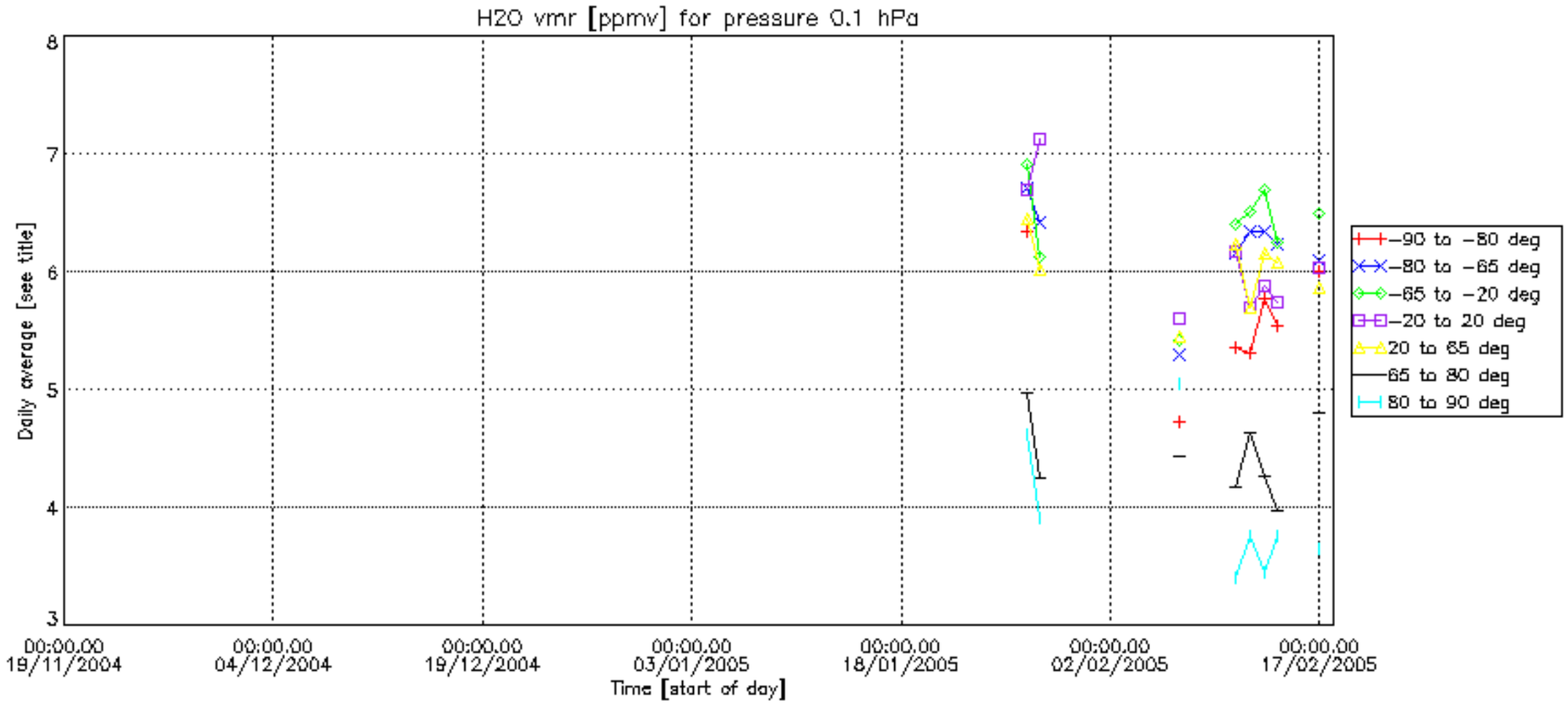
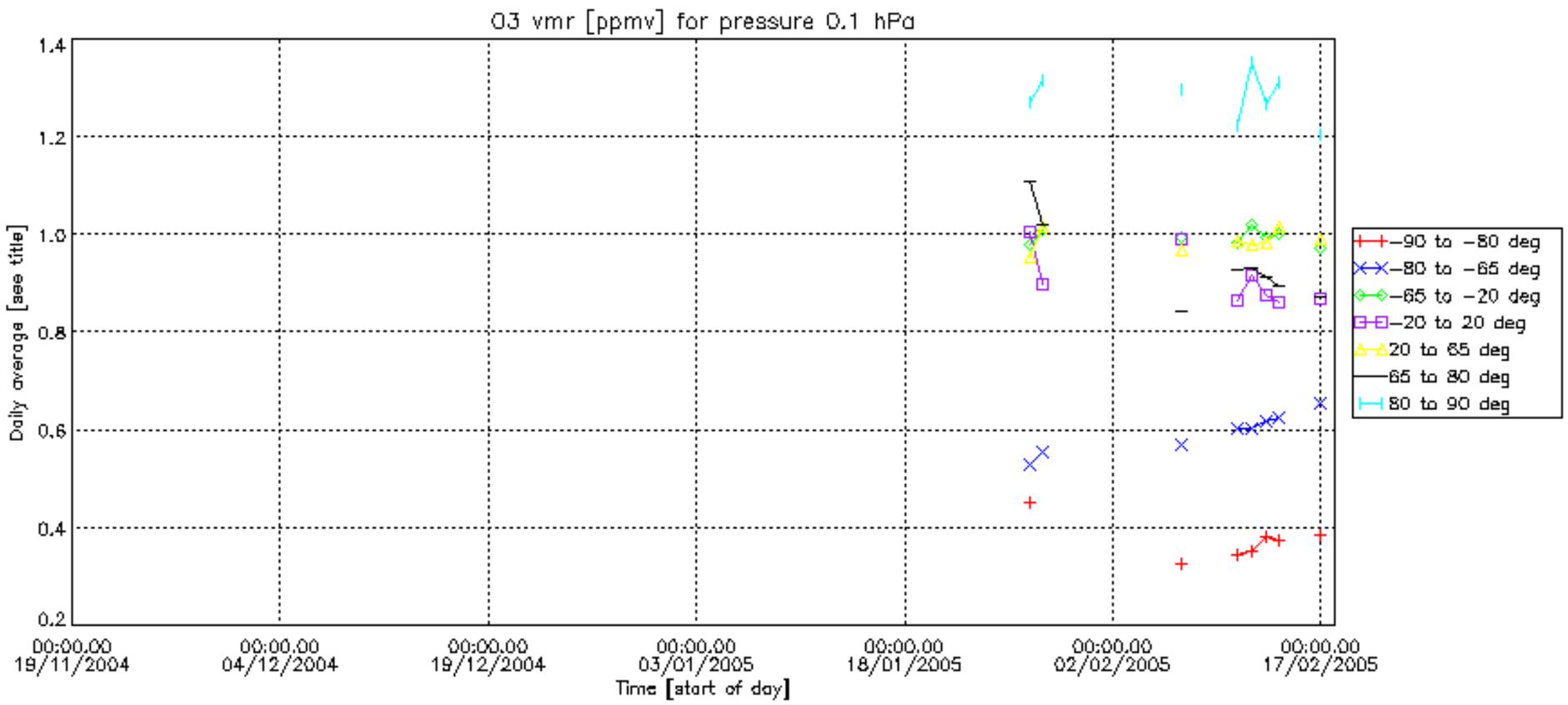
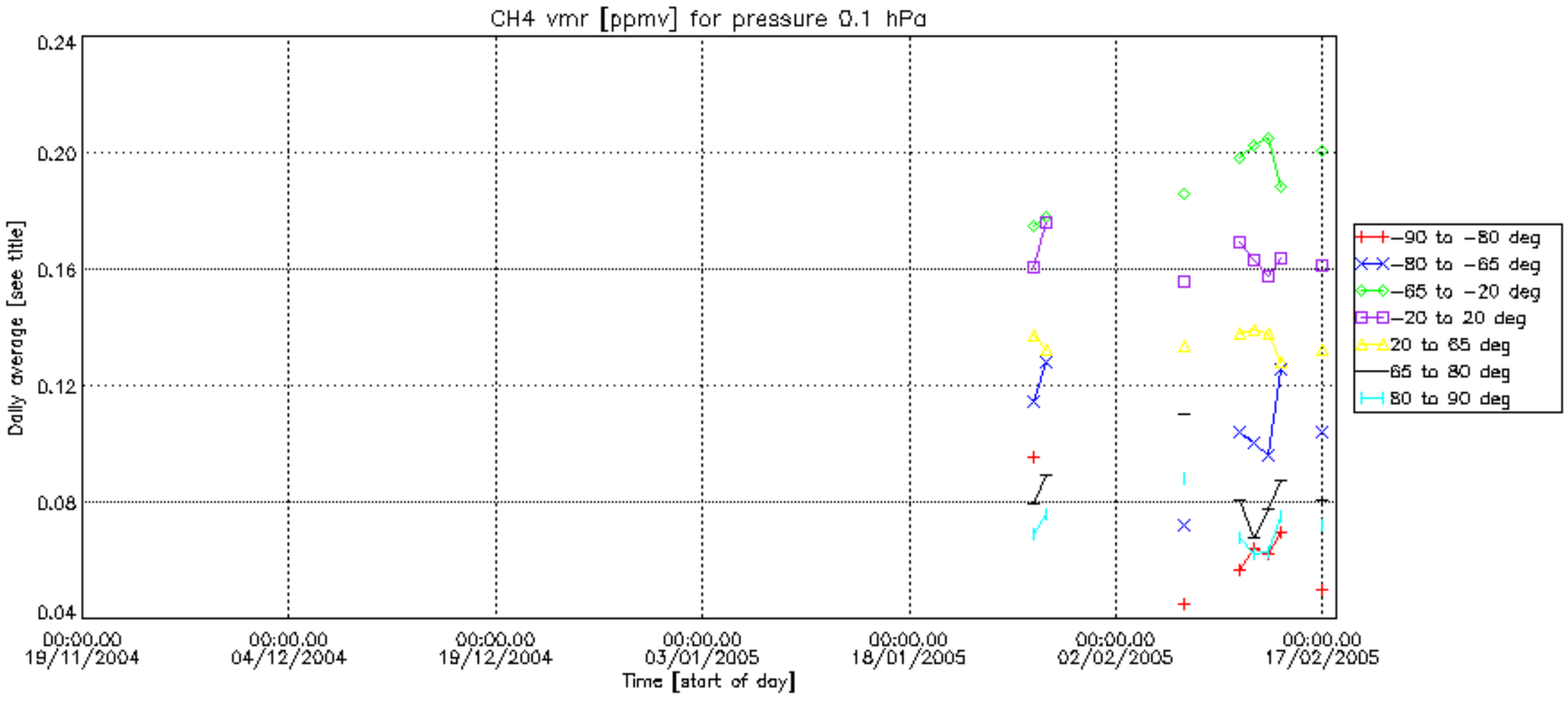
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

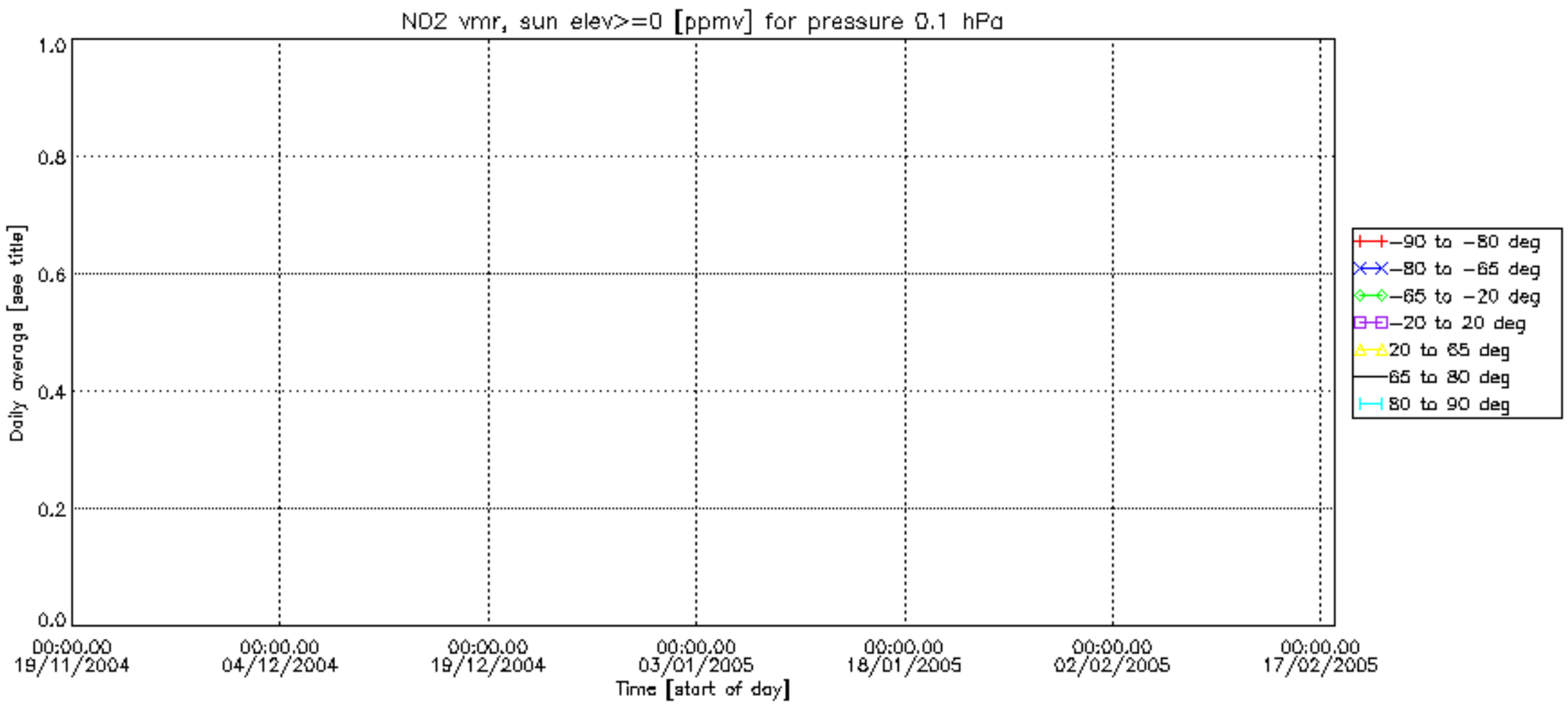

Temperature [K] for pressure 0.1 hPa
245
240
235
230
225
220
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg

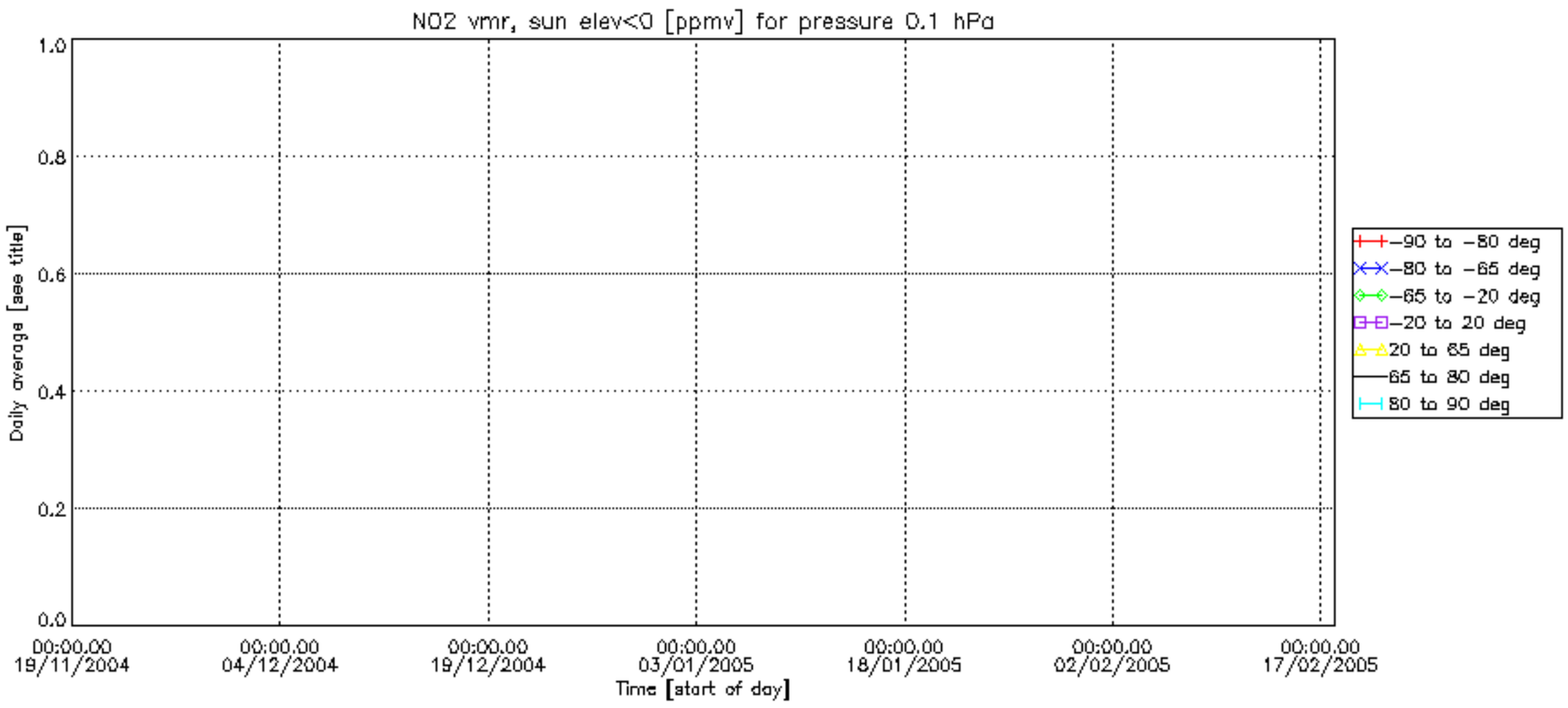

Tangent altitude [km] for pressure 0.1 hPa
Daily average [see title]
68
67
66
65
64
63
62
61
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


H2O vmr [ppmv] for pressure 0.1 hPa
Daily average [see title]
8
7
6
5
4
3
00:00.00
19/11/2004
00:00.00
04/12/2004
00:00.00
19/12/2004
00:00.00
03/01/2005
00:00.00
18/01/2005
00:00.00
02/02/2005
00:00.00
17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


O3 vmr [ppmv] for pressure 0.1 hPa
Daily average [see title]
1.4
1.2
1.0
0.8
0.6
0.4
0.2
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


CH4 vmr [ppmv] for pressure 0.1 hPa
0.24
0.20
0.16
0.12
0.08
0.04
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


NO2 vmr, sun elev>=0 [ppmv] for pressure 0.1 hPa
Daily average [see title]
1.0
0.8
0.6
0.4
0.2
0.0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
-90 to -80 deg
-80 to -65 deg
-65 to -20 deg
-20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


NO2 vmr, sun elev<0 [ppmv] for pressure 0.1 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
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−65 to −20 deg
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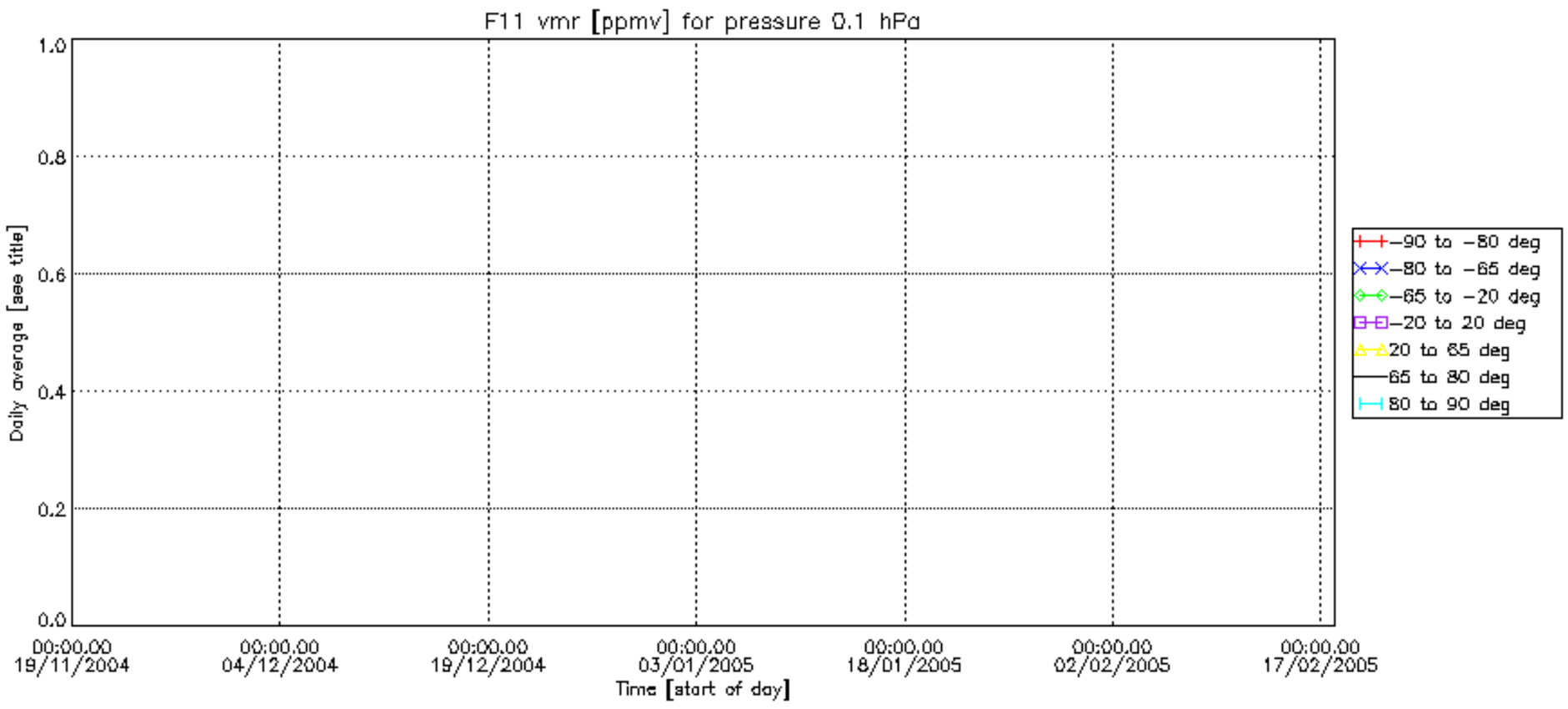
65 to 80 deg
80 to 90 deg


F11 vmr [ppmv] for pressure 0.1 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
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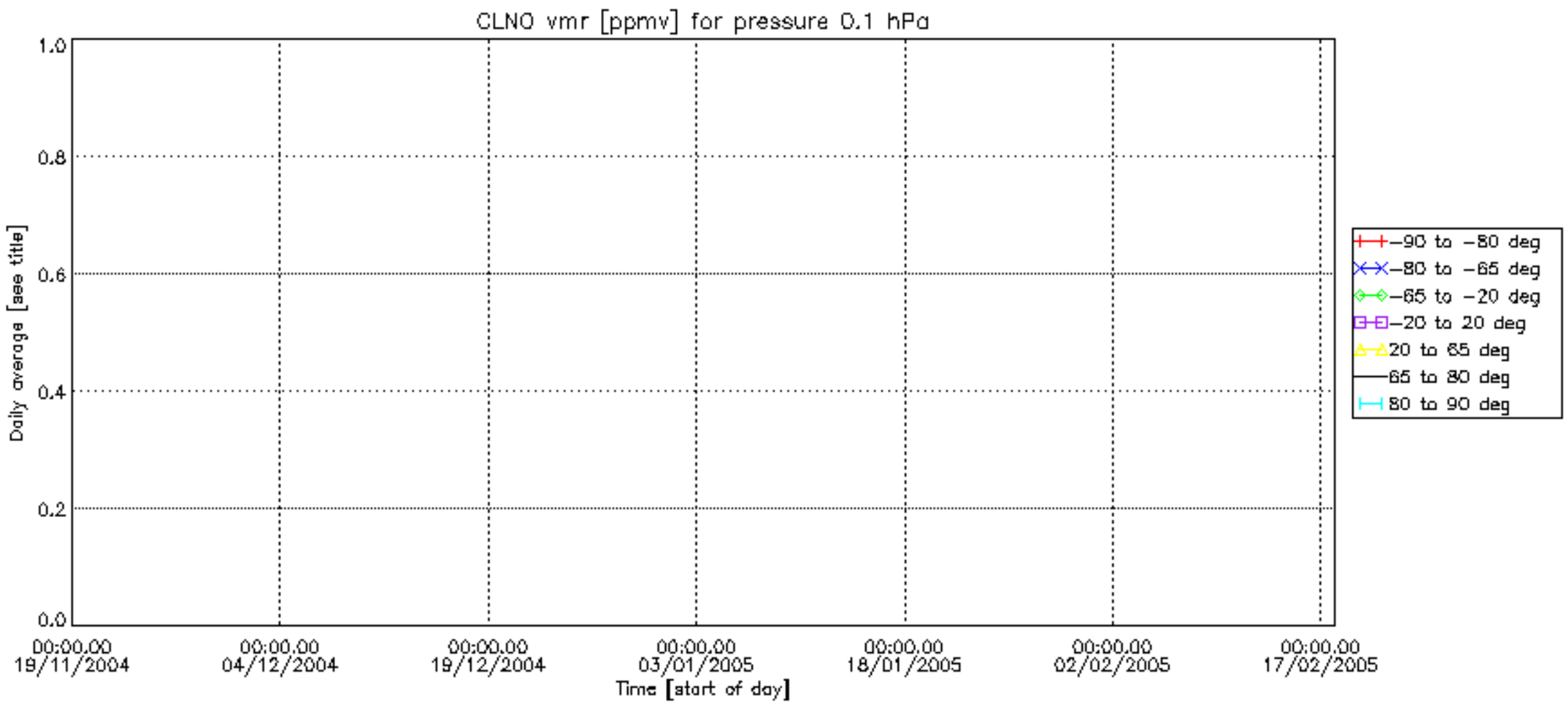
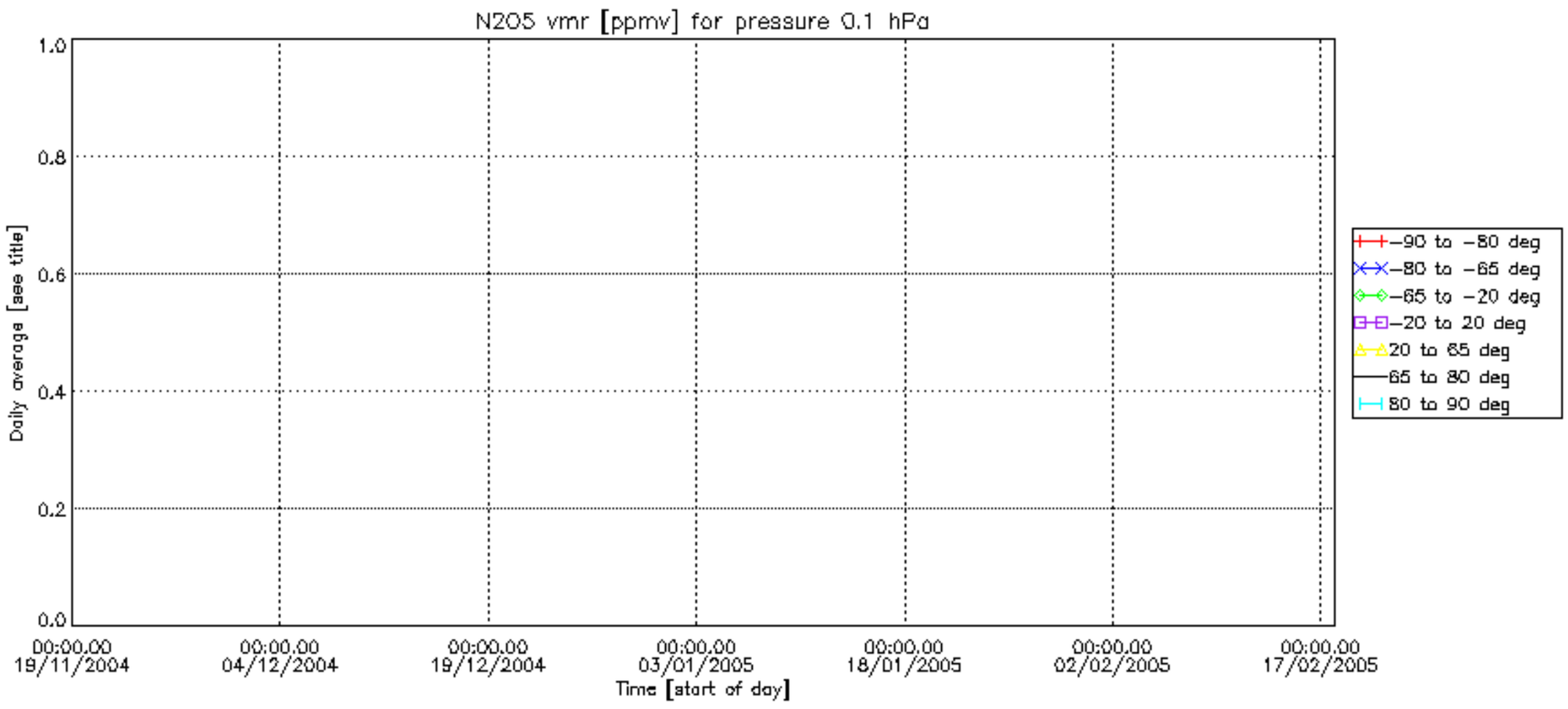
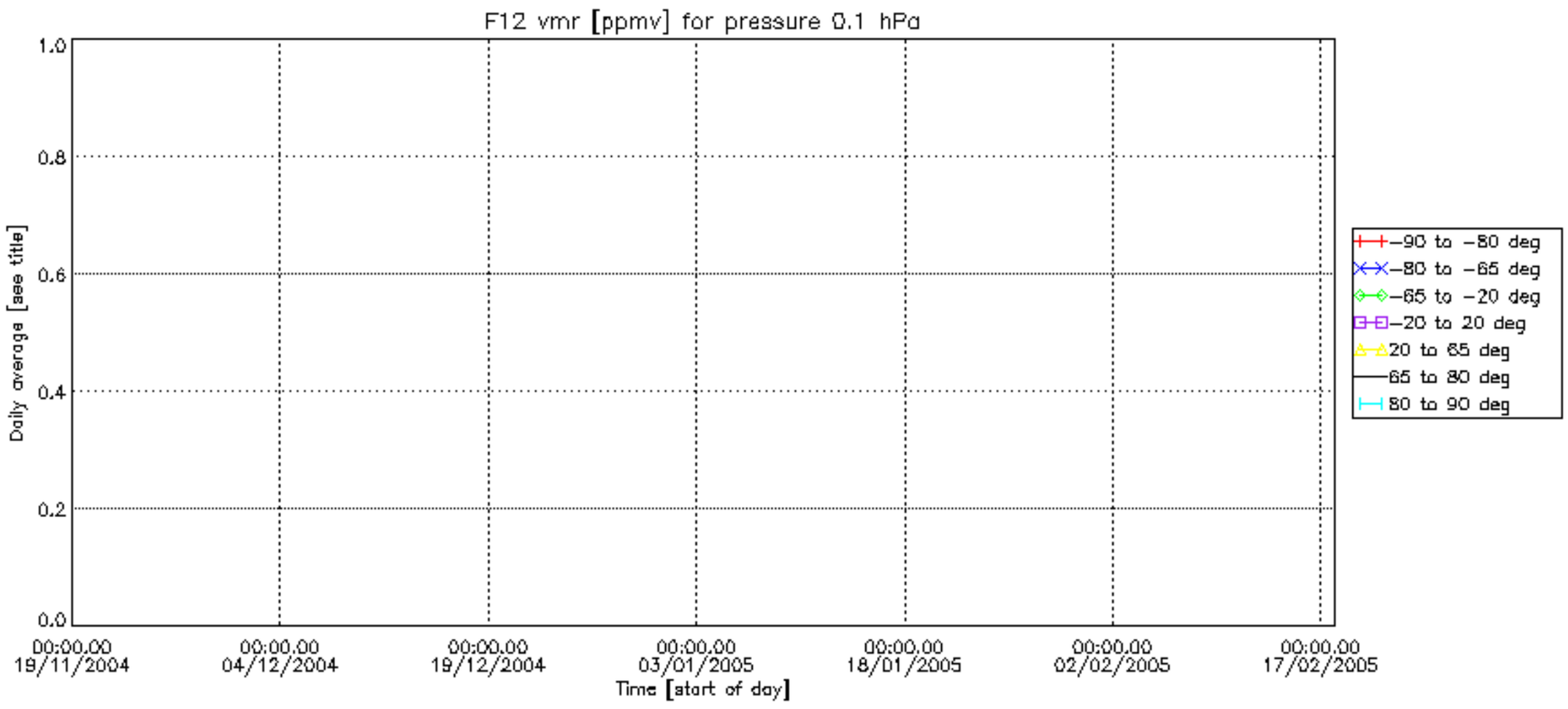
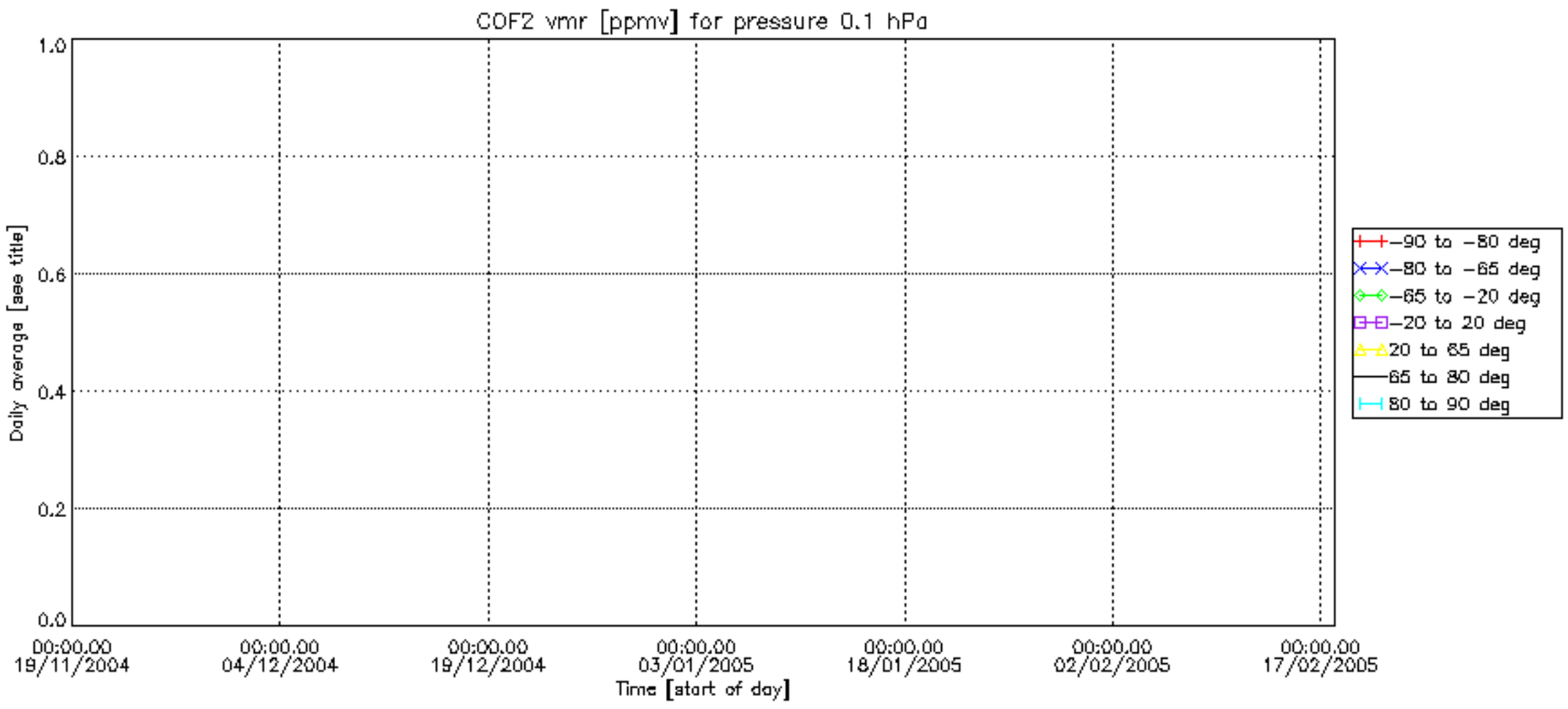
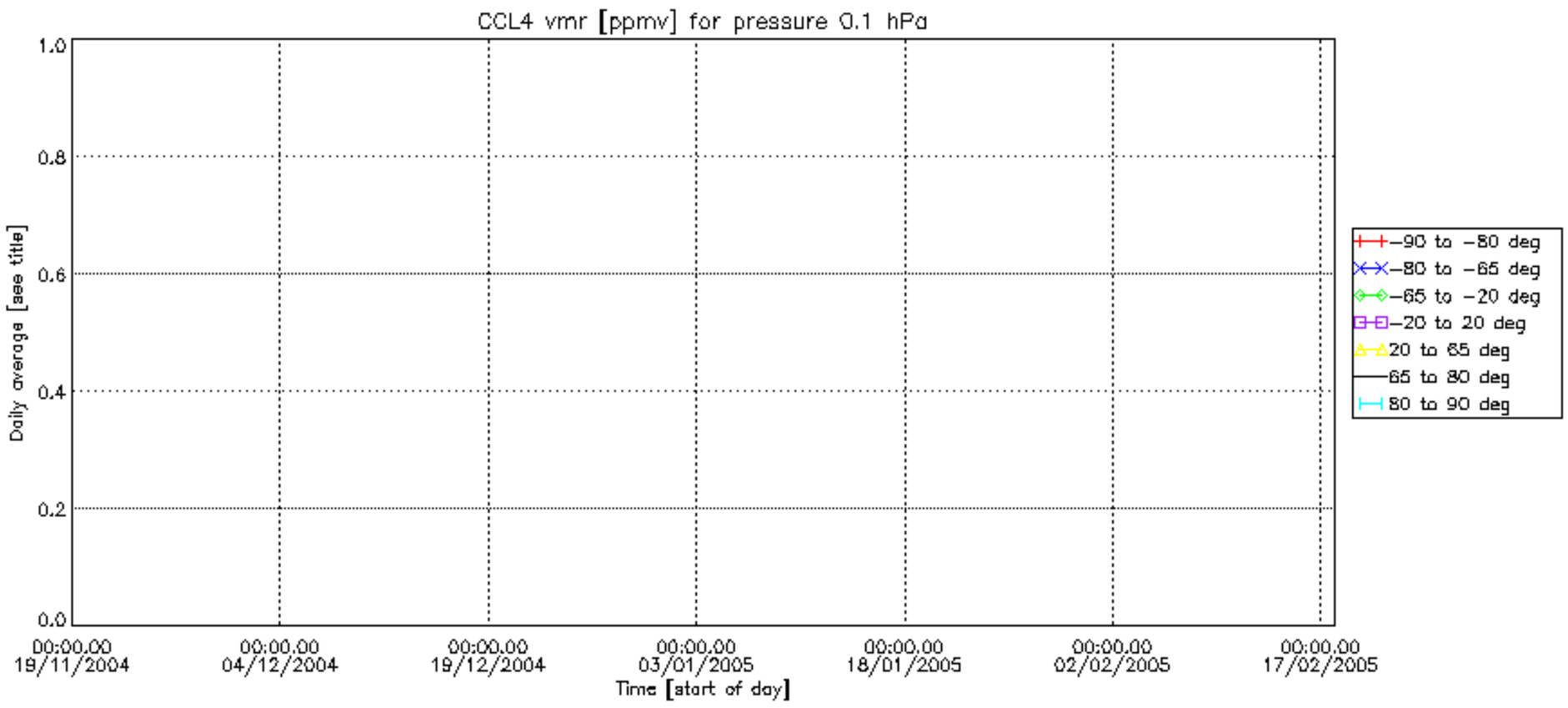
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


CLNO vmr [ppmv] for pressure 0.1 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


N2O5 vmr [ppmv] for pressure 0.1 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


F12 vmr [ppmv] for pressure 0.1 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


COF2 vmr [ppmv] for pressure 0.1 hPa
Daily average [see title]
1.0
0.8
0.6
0.4
0.2
0.0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


CCL4 vmr [ppmv] for pressure 0.1 hPa
Daily average [see title]
1.0
0.8
0.6
0.4
0.2
0.0
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
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−65 to −20 deg
−20 to 20 deg
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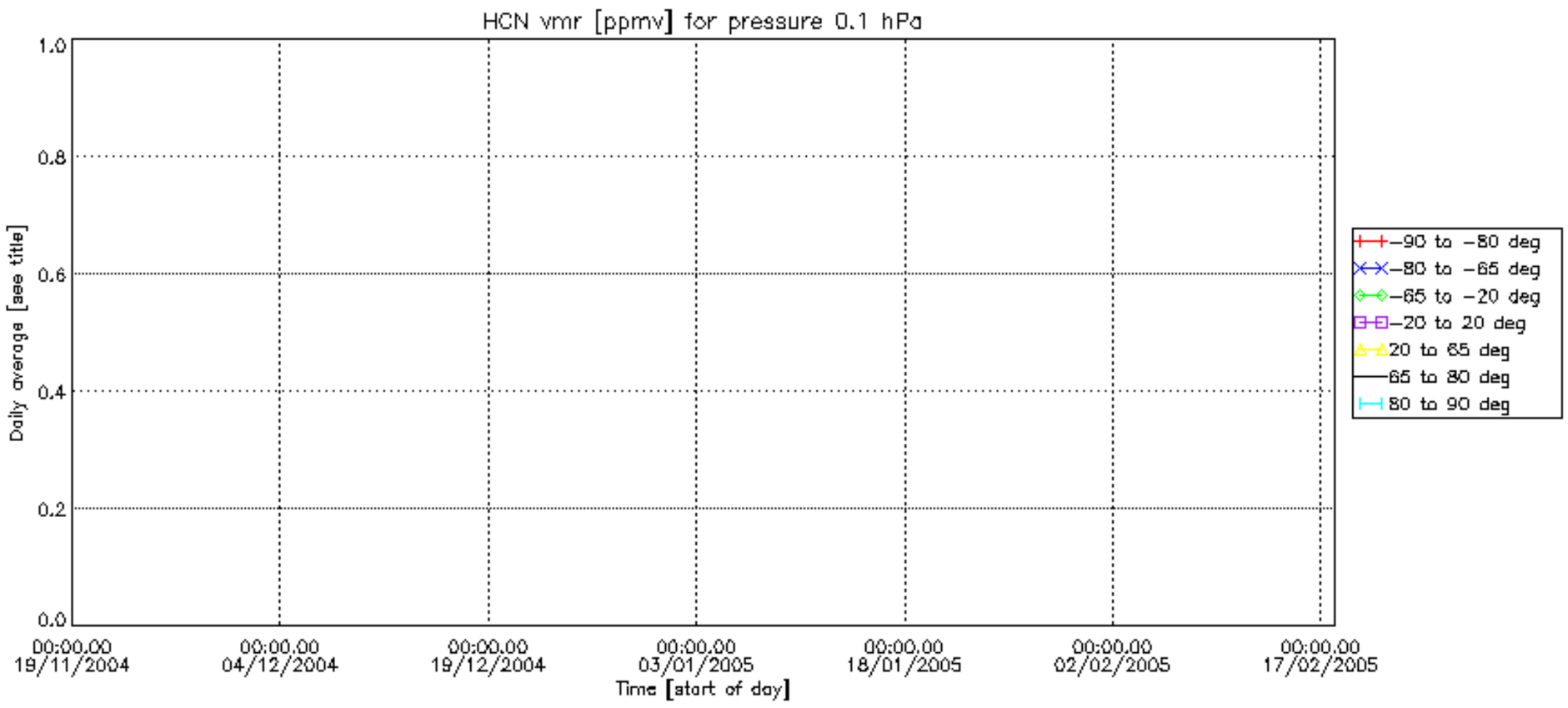
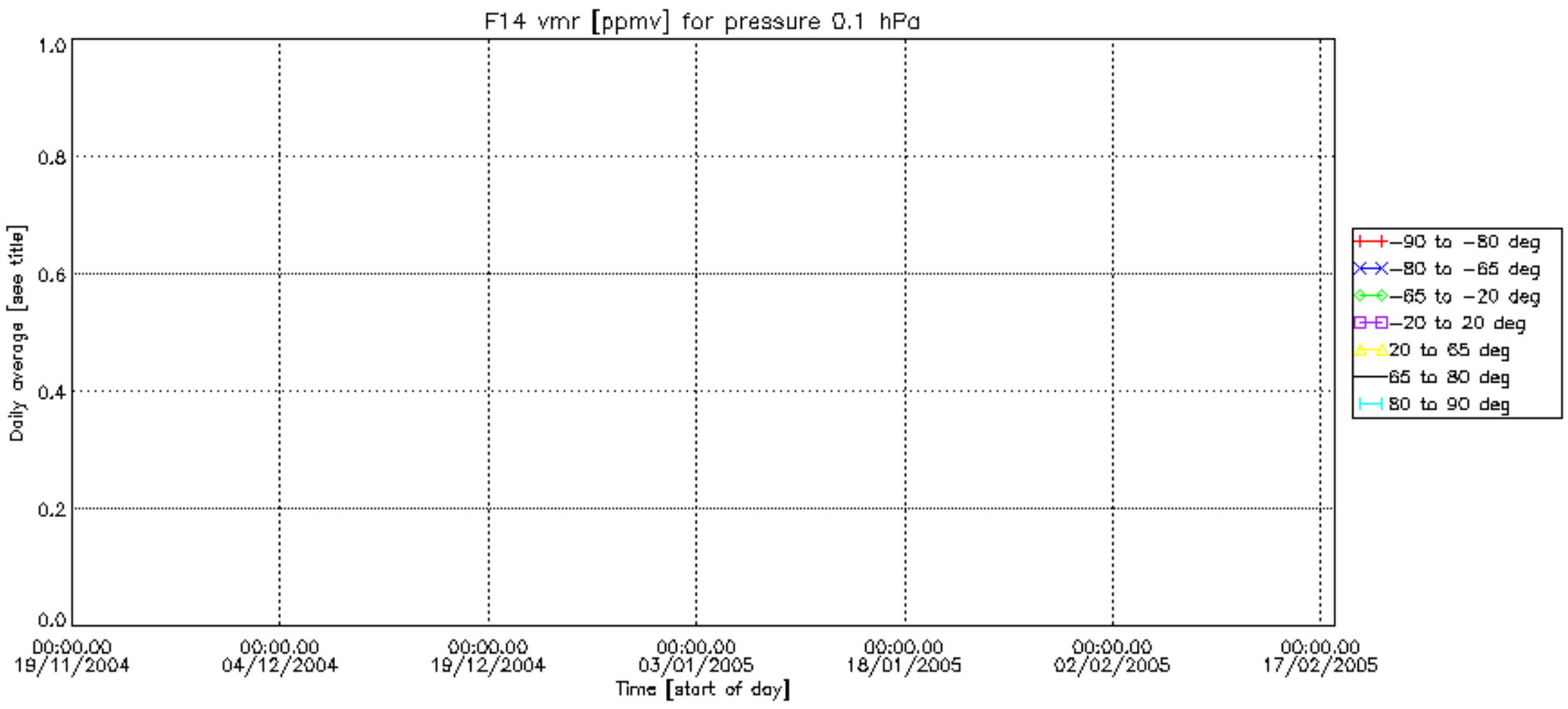
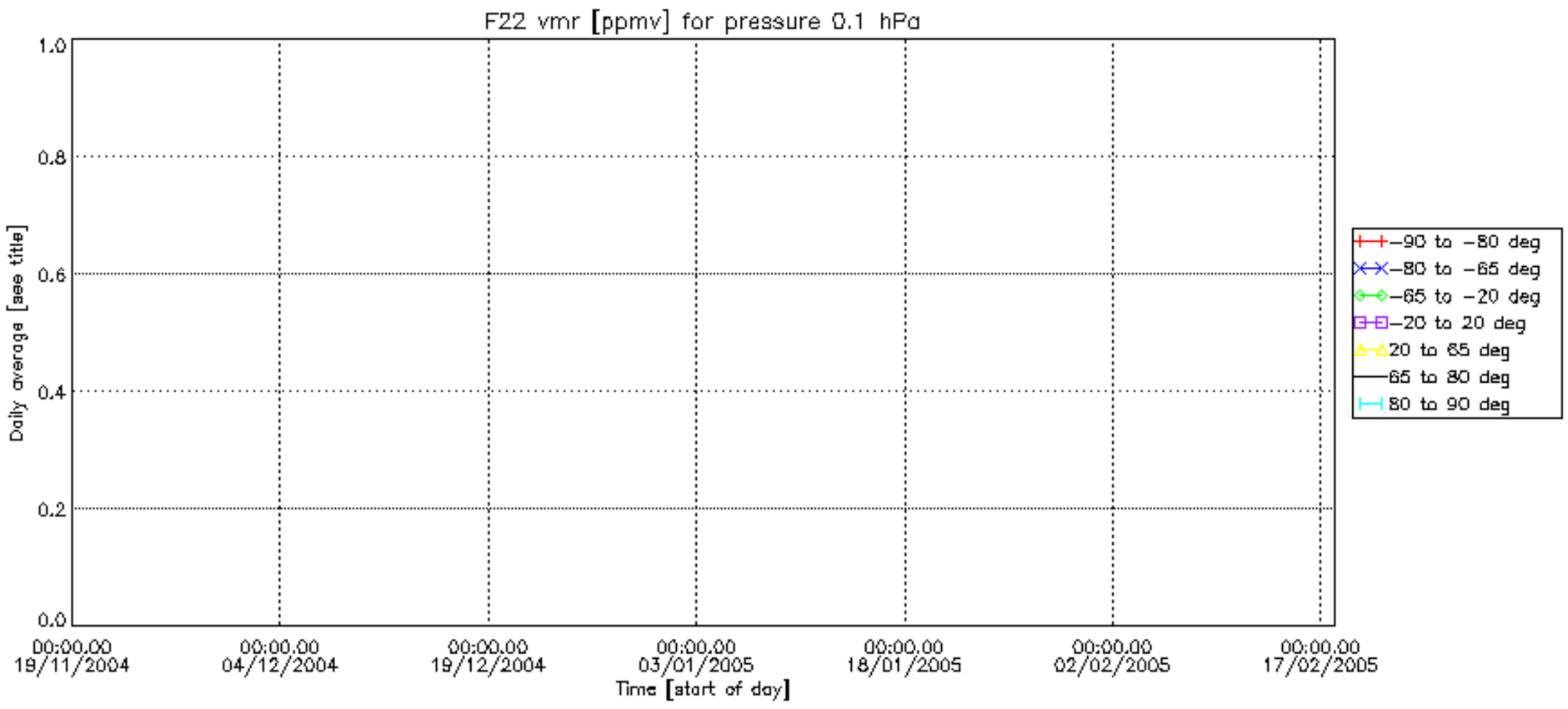
65 to 80 deg
80 to 90 deg


HCN vmr [ppmv] for pressure 0.1 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


F14 vmr [ppmv] for pressure 0.1 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg


F22 vmr [ppmv] for pressure 0.1 hPa
1.0
0.8
0.6
0.4
0.2
0.0
Daily average [see title]
00:00.00 19/11/2004
00:00.00 04/12/2004
00:00.00 19/12/2004
00:00.00 03/01/2005
00:00.00 18/01/2005
00:00.00 02/02/2005
00:00.00 17/02/2005
Time [start of day]
−90 to −80 deg
−80 to −65 deg
−65 to −20 deg
−20 to 20 deg
20 to 65 deg
65 to 80 deg
80 to 90 deg