

2. SCIAMACHY Daily Report for Level 2 products

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2.1 General Info

This report contains a daily analysis on parameters extracted from SCIAMACHY Level 2 data (the SCI_OL__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	1.13 (28-02-2011)
Time of report generation	24FEB2012 17:26:26
Data source version	SCIA-OL/5.02-W
Processing scope for products	03OCT2002 00:00:00 to 04OCT2002 00:00:00
Start time of first product within scope	02OCT2002 22:55:11
Stop time of last product within scope	04OCT2002 01:01:48
Total number of level 2 products	16
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.

Products are linked to a corresponding server directory for view/download. Note: Link access may be restricted by security settings of your internet browser or firewall.

Products are checked for a minimum duration of 3500.0000 seconds and a maximum duration of 6000.0000 seconds. Products failing the duration test are highlighted in bold, and their stop time is highlighted in red.

#	Product name	Start time	Stop time	Prod err	Fit summary
0	SCI_OL__2PWDPA20021002_225511_000035332010_00030_03090_9900.N1	02OCT2002 22:55:11	02OCT2002 23:54:05	0	GOOD
1	SCI_OL__2PWDPA20021003_003548_000034492010_00031_03091_9901.N1	03OCT2002 00:35:48	03OCT2002 01:33:17	0	GOOD
2	SCI_OL__2PWDPA20021003_021624_000035332010_00032_03092_9902.N1	03OCT2002 02:16:24	03OCT2002 03:15:17	0	GOOD
3	SCI_OL__2PWDPA20021003_035701_000034492010_00033_03093_9903.N1	03OCT2002 03:57:01	03OCT2002 04:54:30	0	GOOD
4	SCI_OL__2PWDPA20021003_053737_000035332010_00034_03094_9904.N1	03OCT2002 05:37:37	03OCT2002 06:36:30	0	GOOD

5	SCI_OL__2PWDP A20021003_072348_000031152010_00035_03095_1958.N1	03OCT2002 07:23:48	03OCT2002 08:15:43	0	GOOD
6	SCI_OL__2PWDP A20021003_085850_000035332010_00036_03096_1959.N1	03OCT2002 08:58:50	03OCT2002 09:57:43	0	GOOD
7	SCI_OL__2PWDP A20021003_103927_000034492010_00037_03097_1960.N1	03OCT2002 10:39:27	03OCT2002 11:36:56	0	GOOD
8	SCI_OL__2PWDP A20021003_122003_000035332010_00038_03098_1961.N1	03OCT2002 12:20:03	03OCT2002 13:18:56	0	GOOD
9	SCI_OL__2PWDP A20021003_140040_000034492010_00039_03099_1962.N1	03OCT2002 14:00:40	03OCT2002 14:58:09	0	GOOD
10	SCI_OL__2PWDP A20021003_154116_000035332010_00040_03100_1963.N1	03OCT2002 15:41:16	03OCT2002 16:40:09	0	GOOD
11	SCI_OL__2PWDP A20021003_172232_000034382010_00041_03101_1964.N1	03OCT2002 17:22:32	03OCT2002 18:19:50	0	GOOD
12	SCI_OL__2PWDP A20021003_190249_000035332010_00042_03102_1965.N1	03OCT2002 19:02:49	03OCT2002 20:01:42	0	GOOD
13	SCI_OL__2PWDP A20021003_204306_000034492010_00043_03103_1966.N1	03OCT2002 20:43:06	03OCT2002 21:40:35	0	GOOD
14	SCI_OL__2PWDP A20021003_222342_000035332010_00044_03104_1967.N1	03OCT2002 22:23:42	03OCT2002 23:22:35	0	GOOD
15	SCI_OL__2PWDP A20021004_000419_000034492010_00045_03105_1968.N1	04OCT2002 00:04:19	04OCT2002 01:01:48	0	GOOD

2.2 Product Quality Indicators

2.2.1 Cloud parameters

This section shows information about the cloud parameters estimation, in particular cloud fractions and cloud top height. IMPORTANT NOTE: The contents and layout of this section are still being validated. Please use with caution.

General statistics:

Total number of cloud data DSRs: 109640

Total number of cloud data DSRs with good quality flag (=0): 109640 (100.0 %)

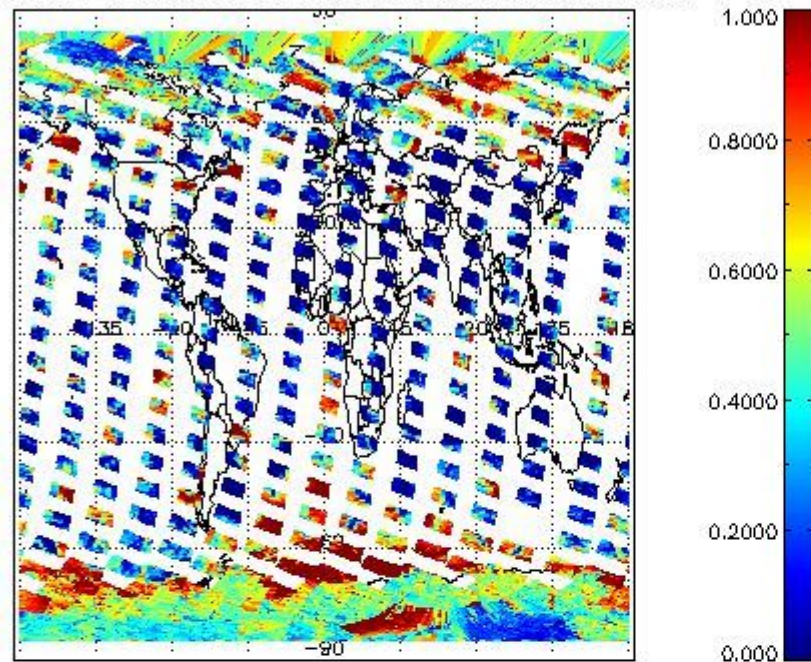
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	109640	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	109640	0.22350	0.25000	0.12500	1.0000	0.099647	s
CL_FRAC	109640	0.40880	0.37622	0.0000	1.0000	0.33372	
CL_FRAC_ERR	109640	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	109640	7.1521	8.0000	4.0000	32.000	3.1887	
PMD_READ_CL[0]	109640	0.81666	0.0000	0.0000	32.000	2.1116	-
PMD_READ_CL[1]	109640	1.8247	0.0000	0.0000	24.000	2.9444	-
CL_TOP_HEIGHT	96881	3.2275	1.7058	0.0000	17.000	3.6492	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	96881	52.876	43.735	0.0000	101.00	41.146	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	109640	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	109640	11001011	11000100	11000000	11100000	3362.9	
AERO_ABSO_IND	109640	0.15167	0.0000	0.0000	4.4504	0.37378	
AERO_IND_DIAG	109640	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	109640	01101100	11000000	00000000	11000000	24371.	

Time and geolocation plots:

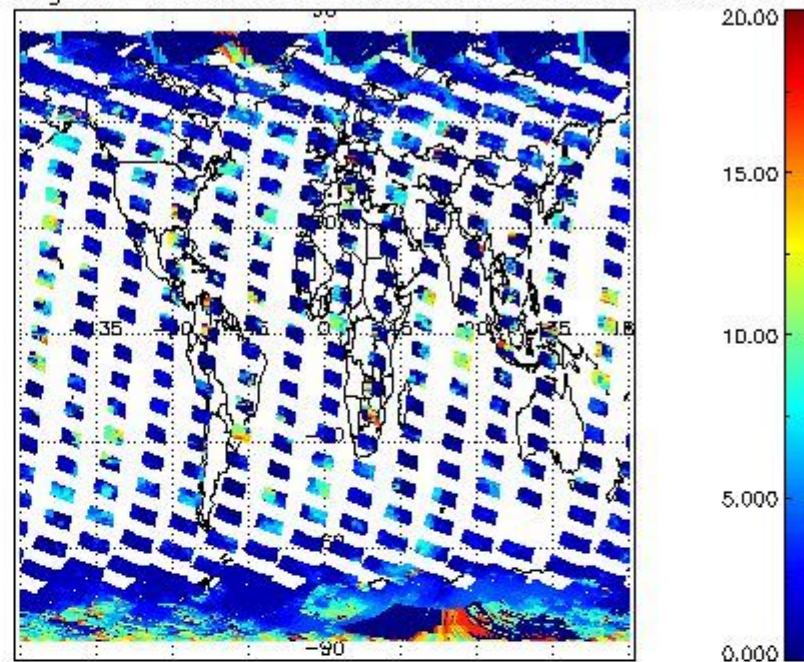
Plots are available for the following parameters:

Number	Data item ID
0	cl_frac
1	cl_top_height
2	cl_opt_depth
3	cloud_flags

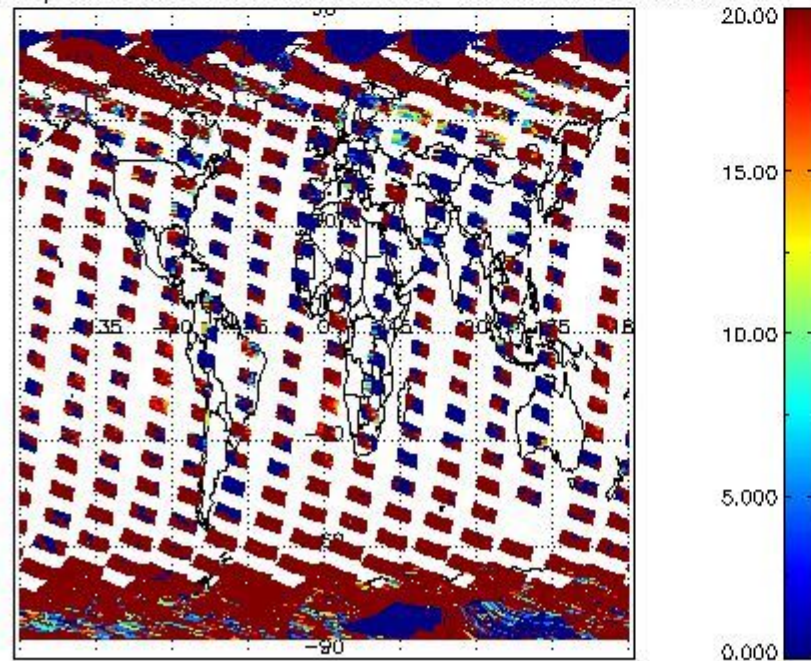
cLfrac for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



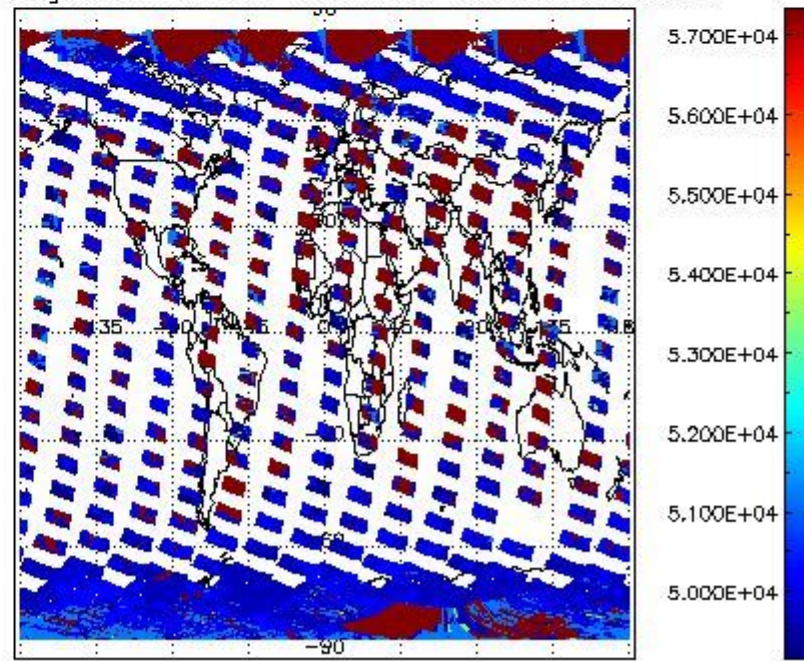
cL_top_height for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



cL_opt_depth for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



cloud_flags for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



2.2.2 Nadir

This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

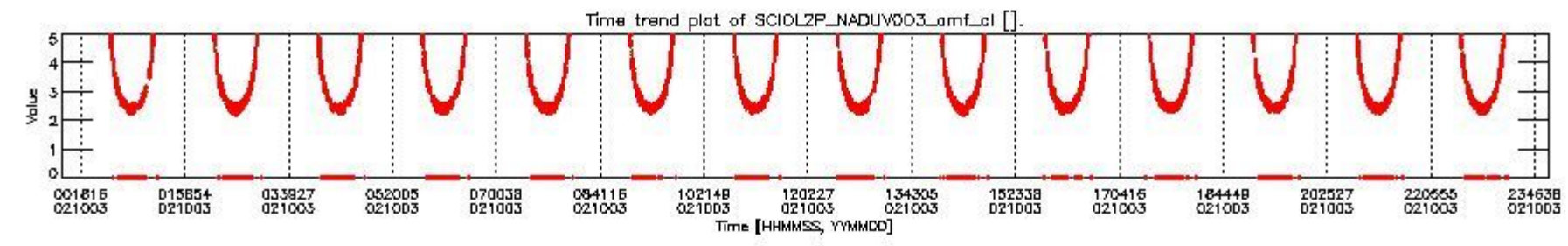
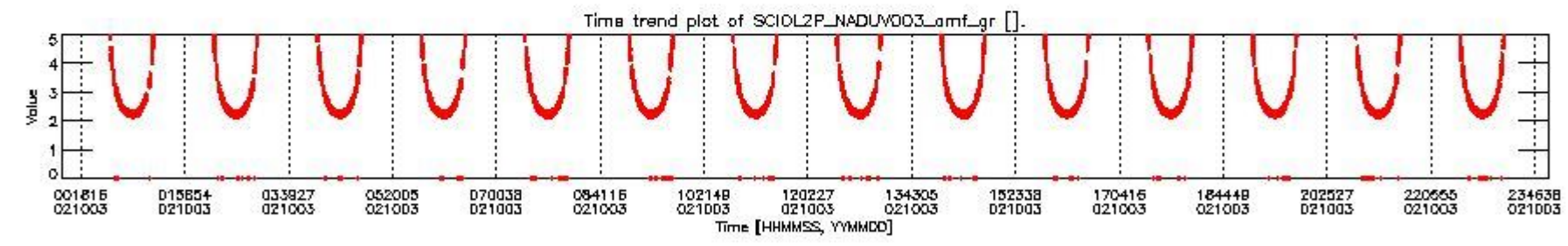
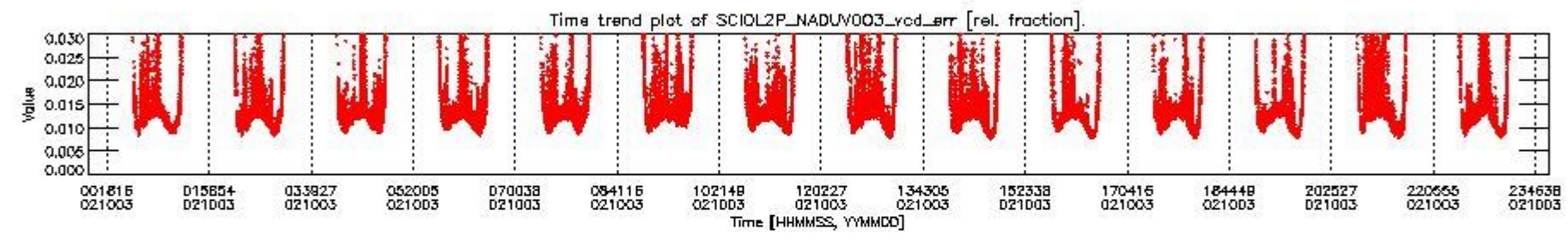
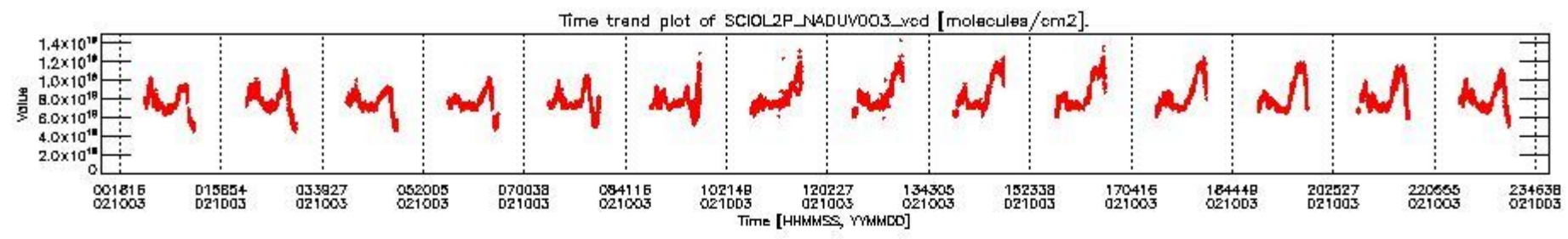
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

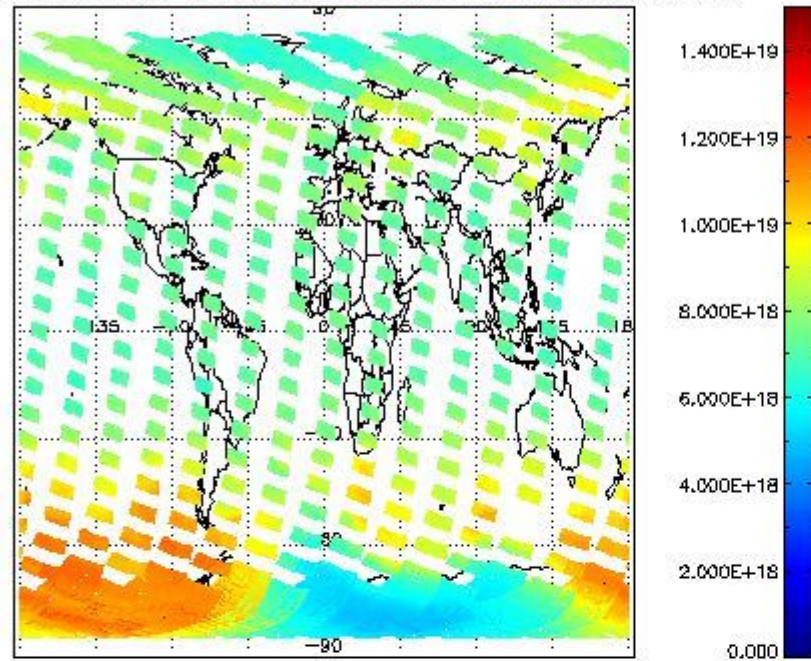
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr
15	SCIOL2P_NADUV5SO2_amf_cl
16	SCIOL2P_NADUV7SO2_vcd
17	SCIOL2P_NADUV7SO2_vcd_err
18	SCIOL2P_NADUV7SO2_amf_gr
19	SCIOL2P_NADUV7SO2_amf_cl
20	SCIOL2P_NADUV6OCL_slant_col_den
21	SCIOL2P_NADUV6OCL_err_slant_col
22	SCIOL2P_NADUV8H2O_vcd
23	SCIOL2P_NADUV8H2O_vcd_err
24	SCIOL2P_NADUV8H2O_amf_gr
25	SCIOL2P_NADIR3CO_vcd
26	SCIOL2P_NADIR3CO_vcd_err

Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the MPH.

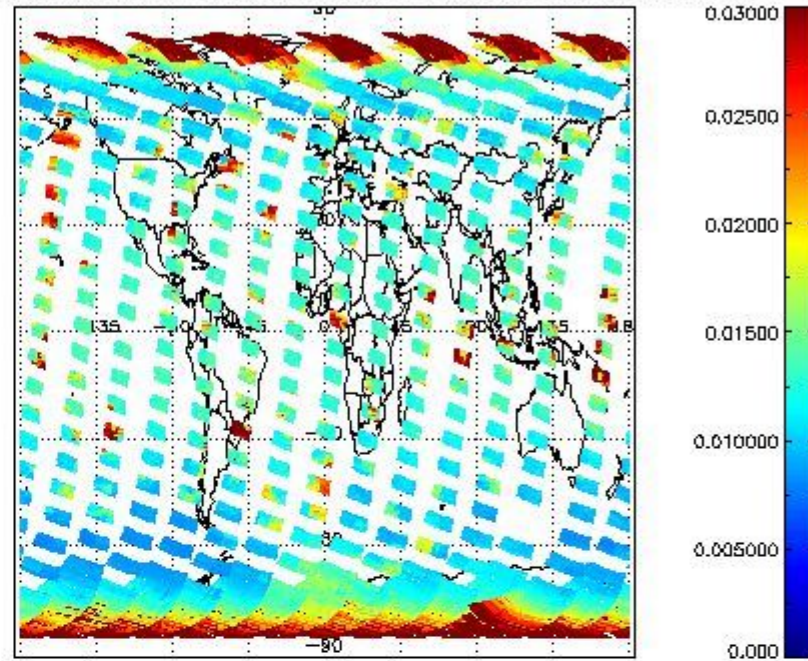
2.2.2.1 O3 (UV0)



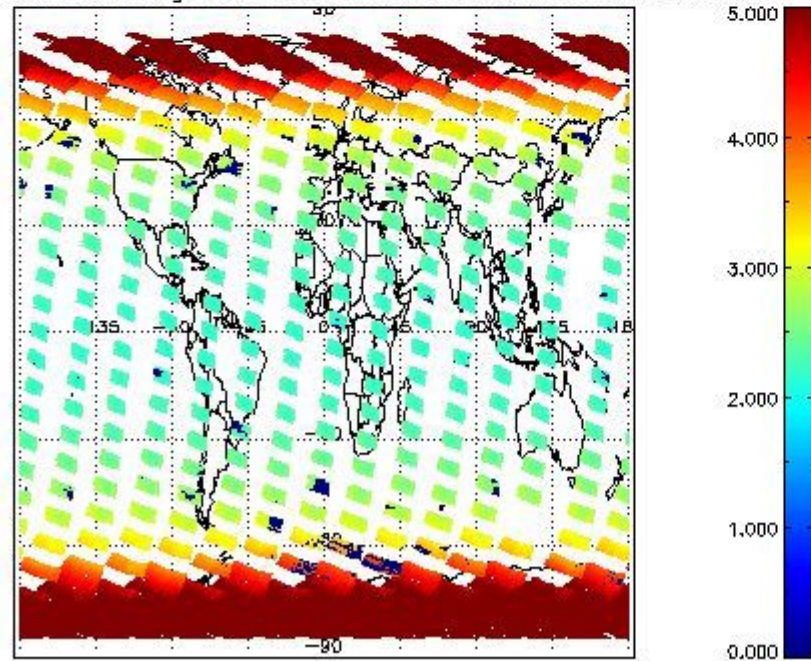
SCIOL2P_NADUV003_vcd for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



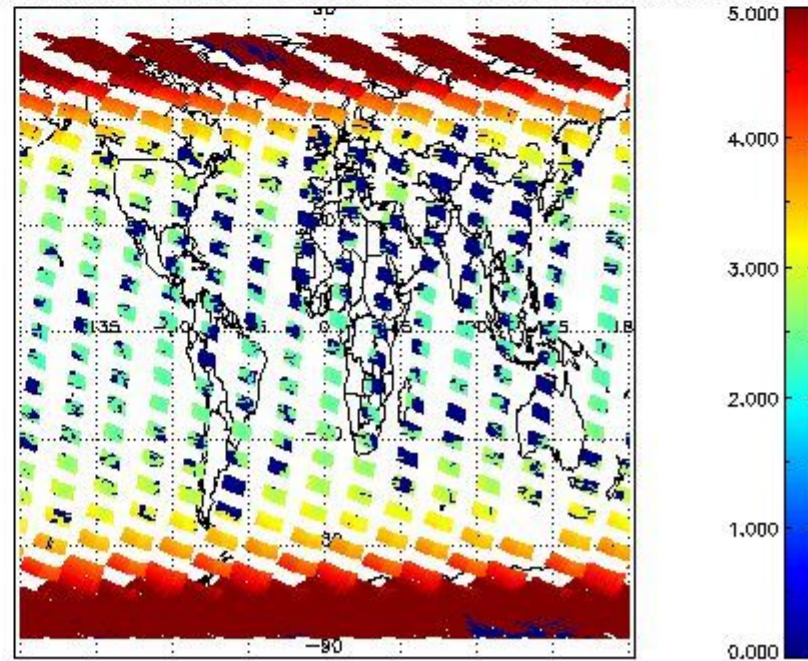
SCIOL2P_NADUV003_vcd_err for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



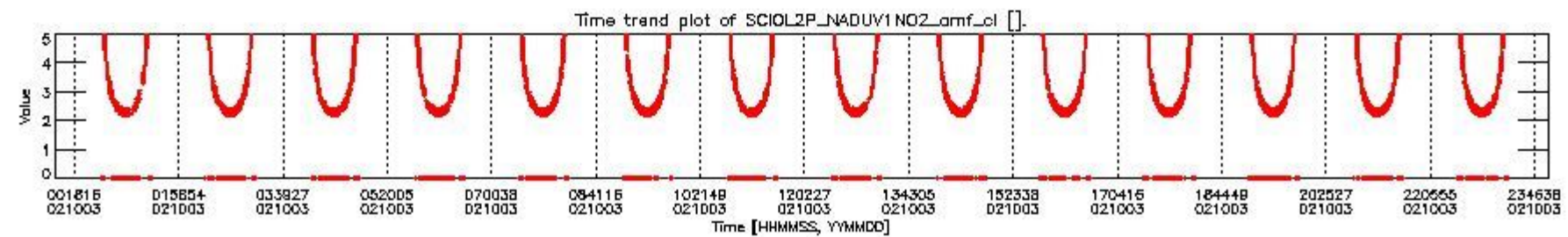
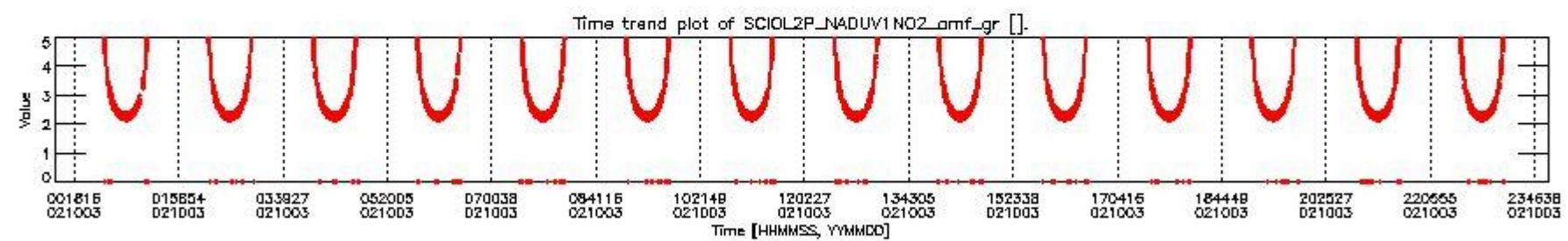
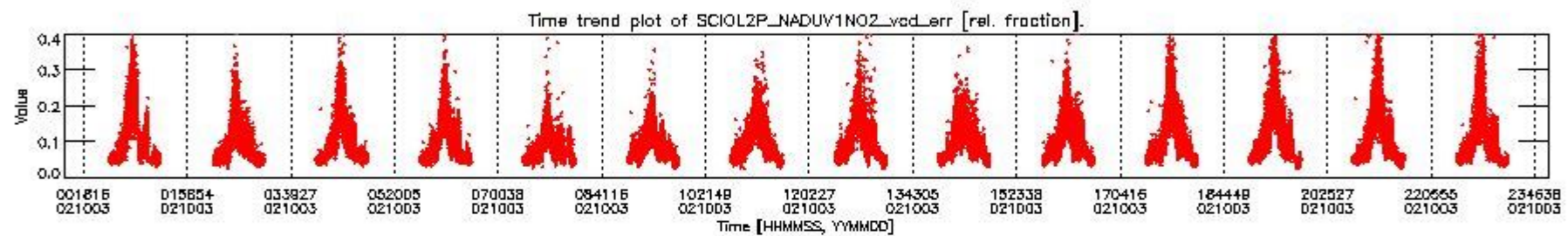
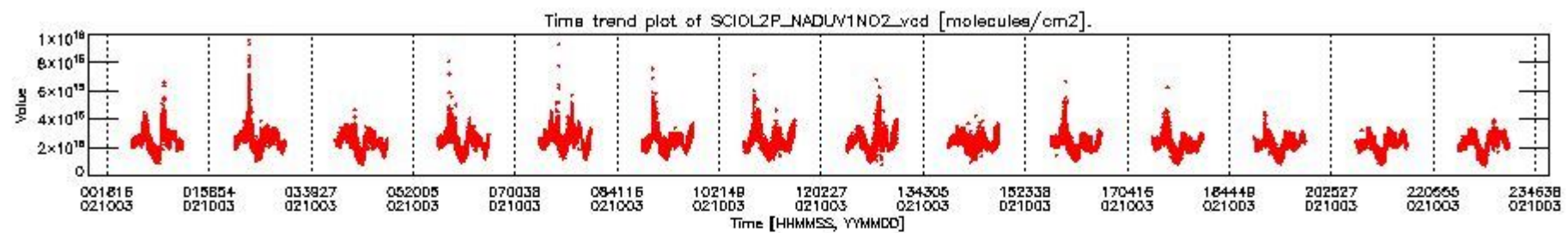
SCIOL2P_NADUV003_amf_gr for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



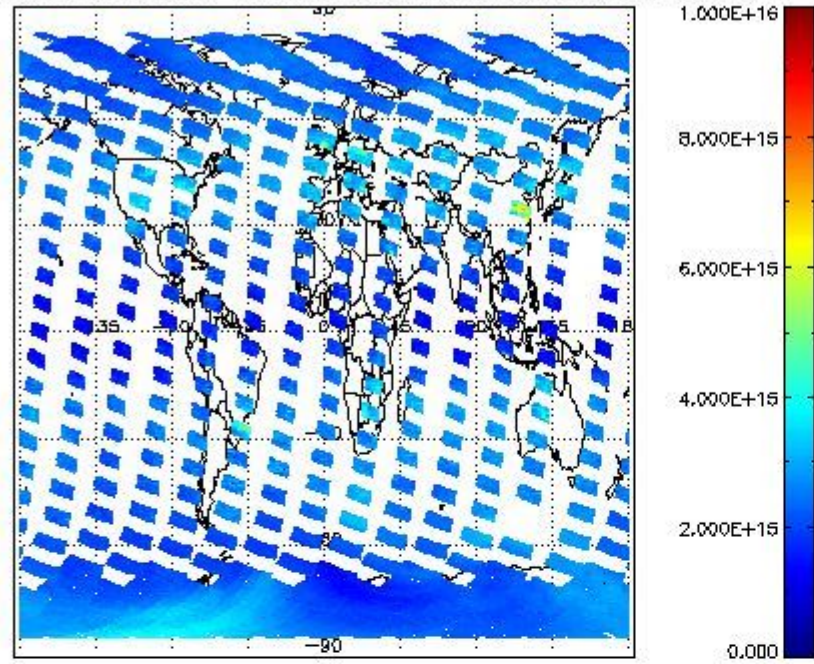
SCIOL2P_NADUV003_amf_cl for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



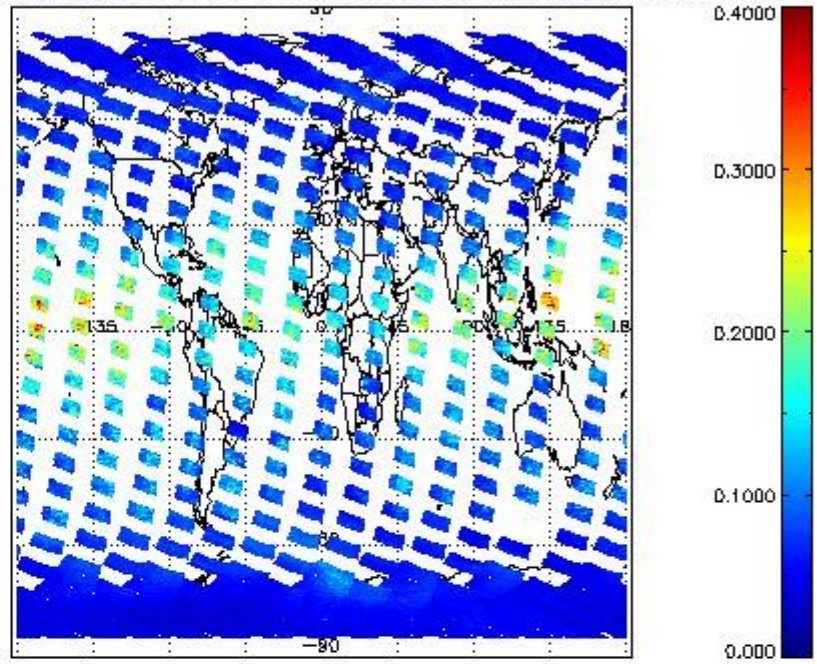
2.2.2.2 NO2 (UV1)



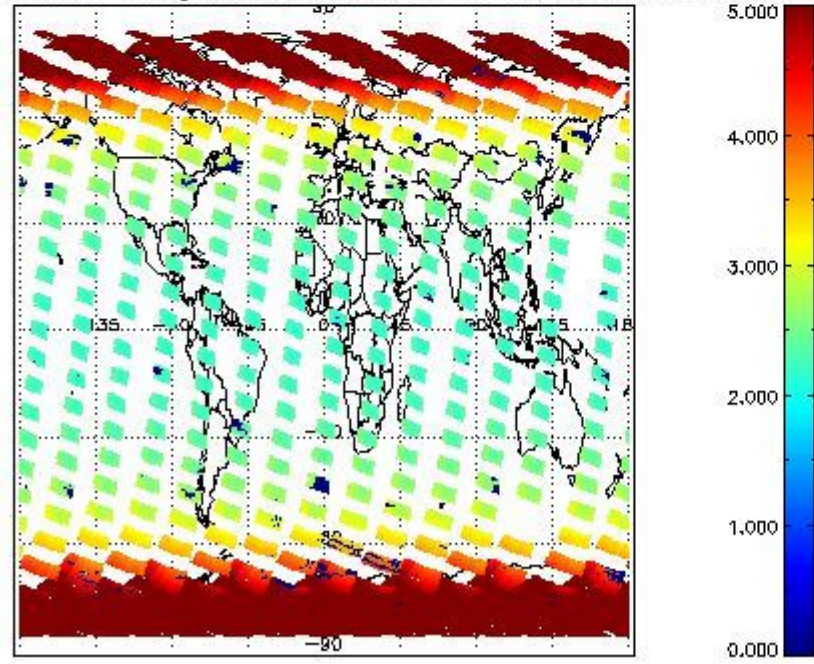
SCIOL2P_NADUV1N02_vcd for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



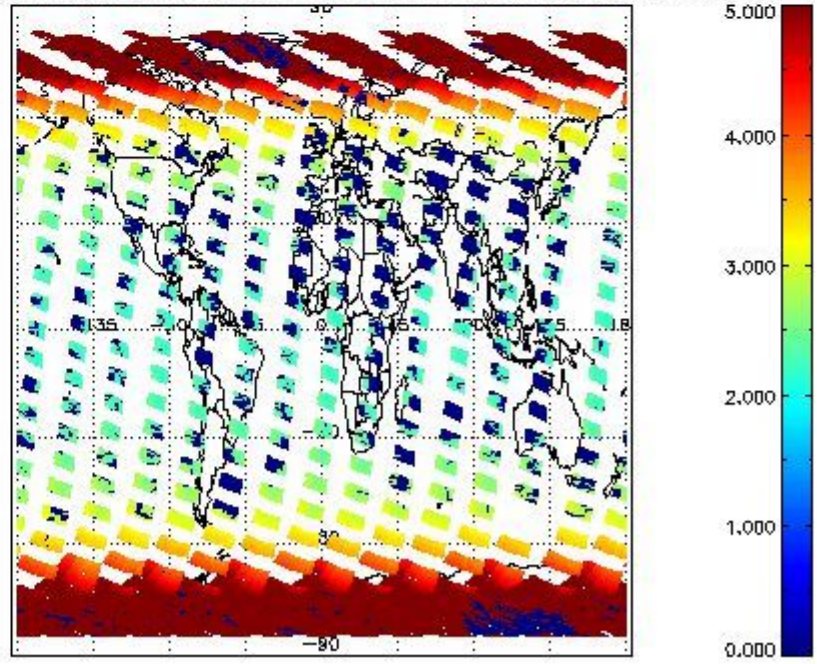
SCIOL2P_NADUV1N02_vcd_err for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



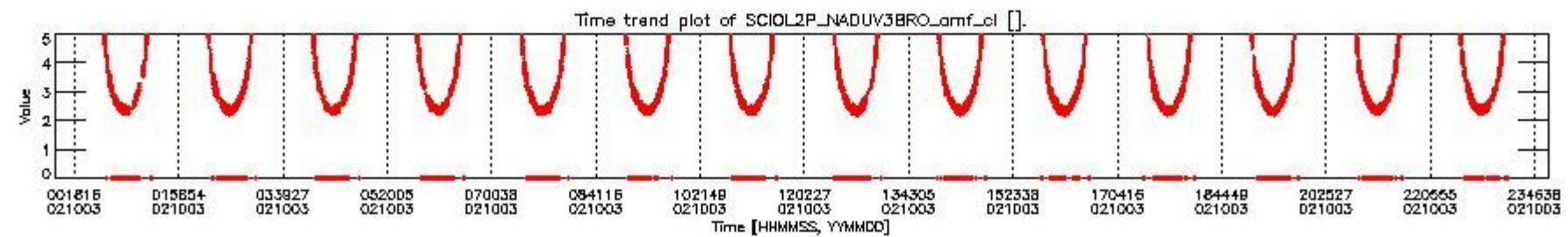
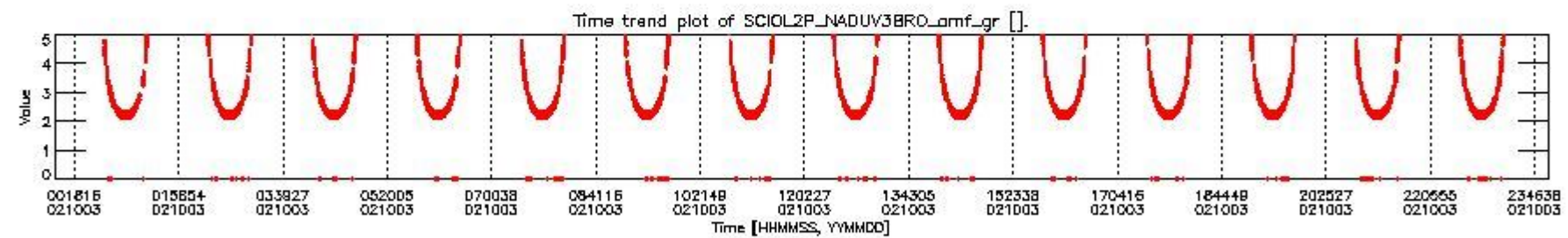
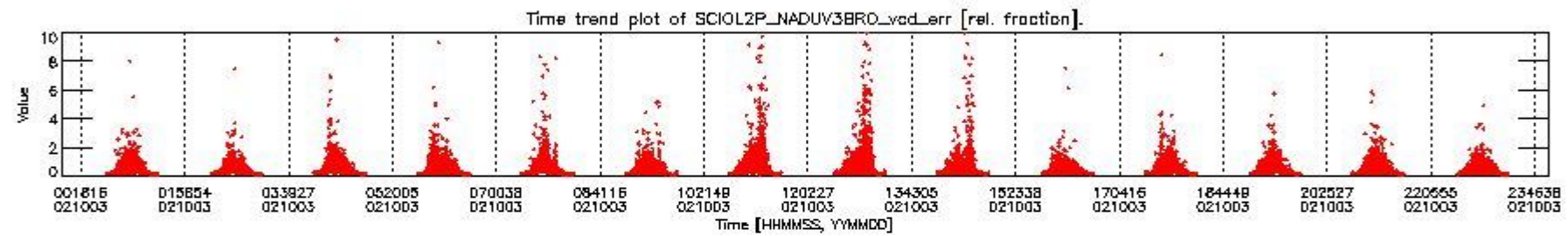
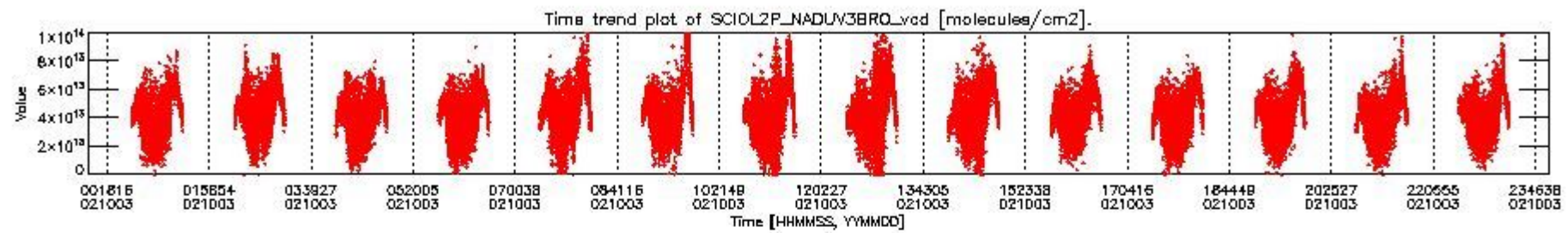
SCIOL2P_NADUV1N02_amf_gr for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



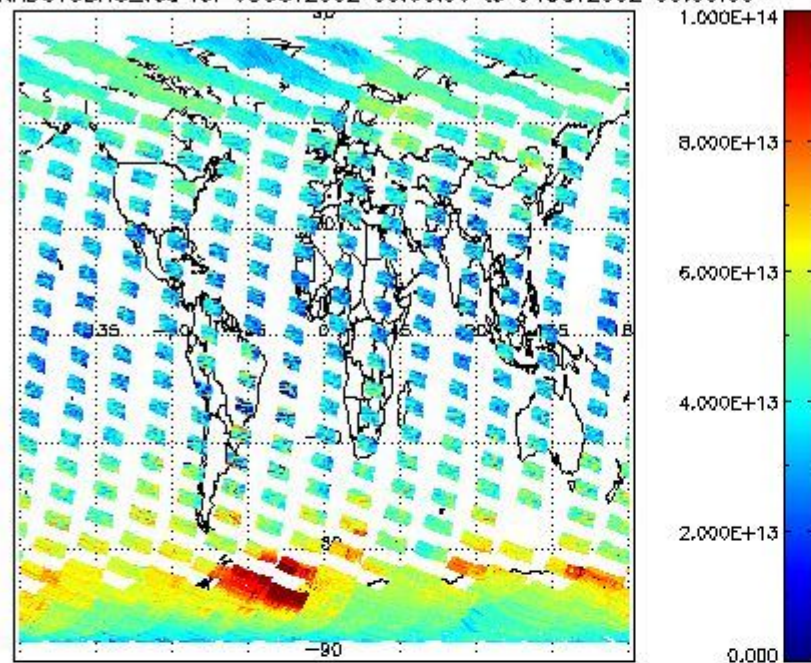
SCIOL2P_NADUV1N02_amf_cl for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



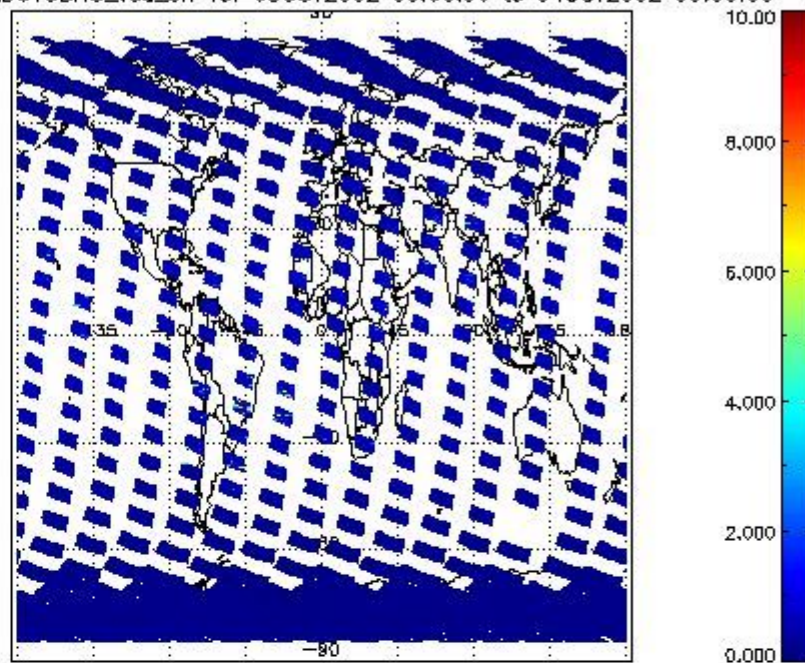
2.2.2.3 BrO (UV3)



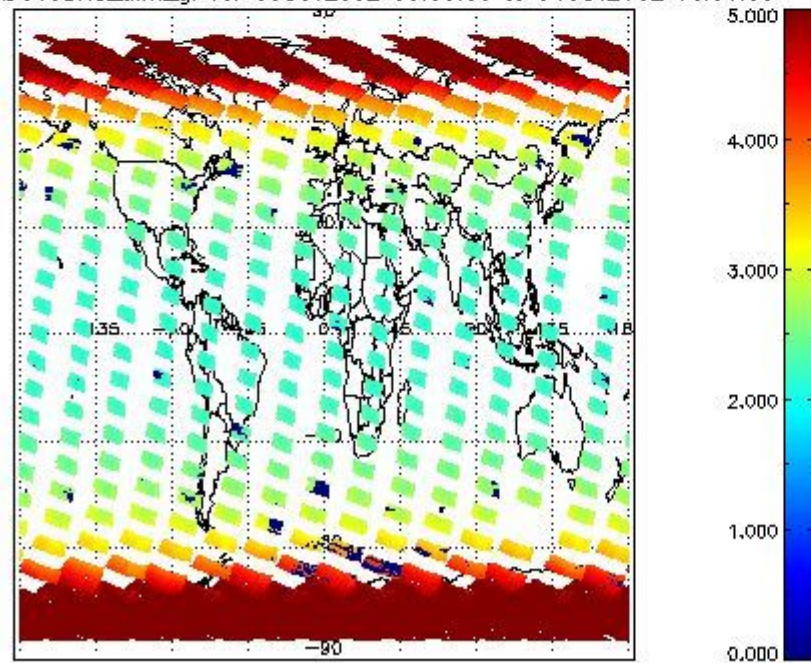
SCIOL2P_NADUV3BRO_vcd for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



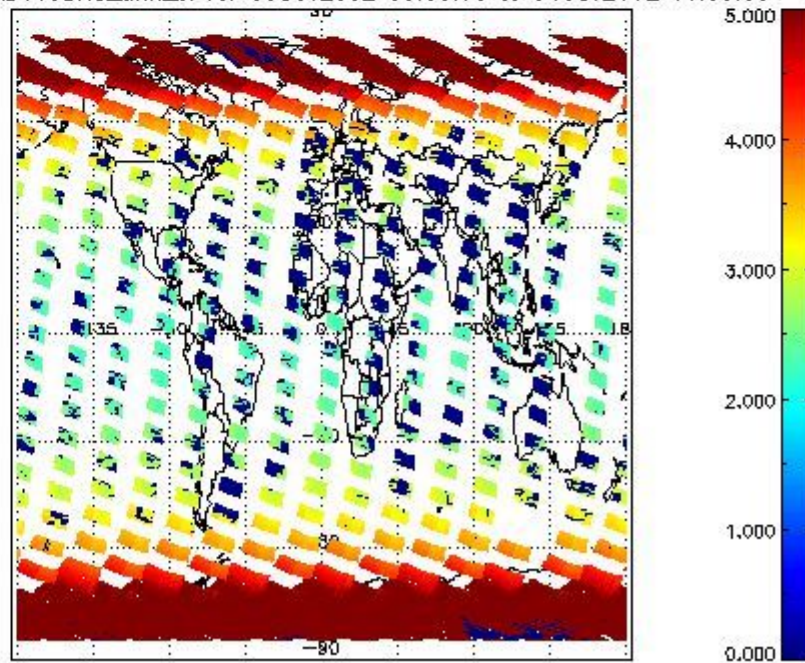
SCIOL2P_NADUV3BRO_vcd_err for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



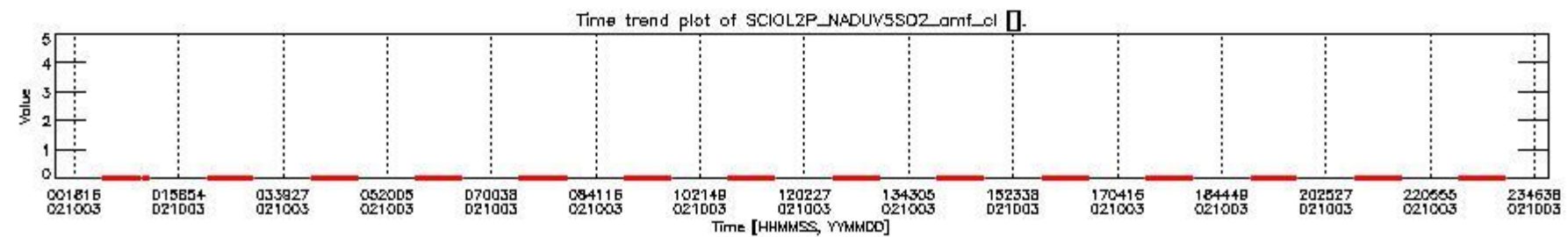
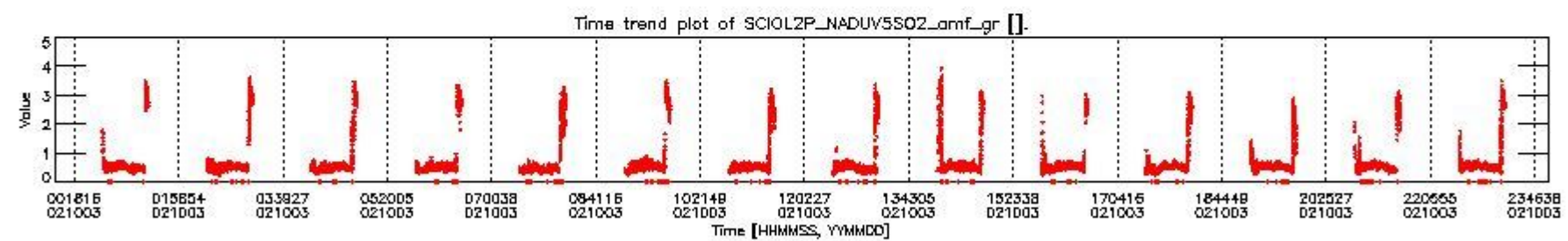
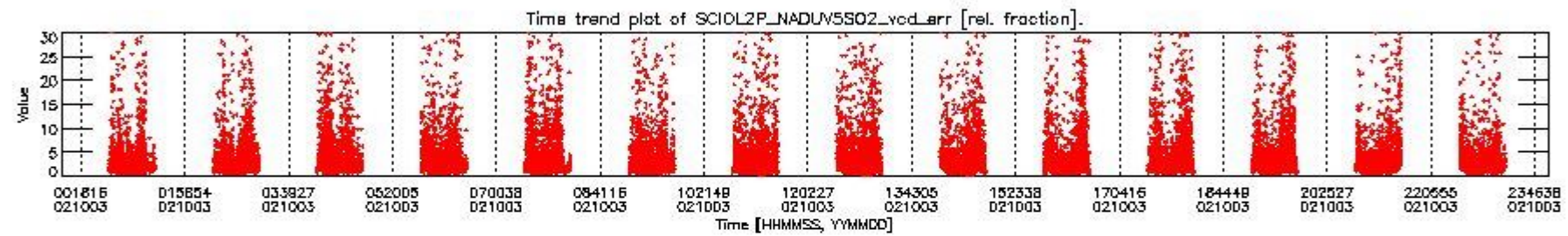
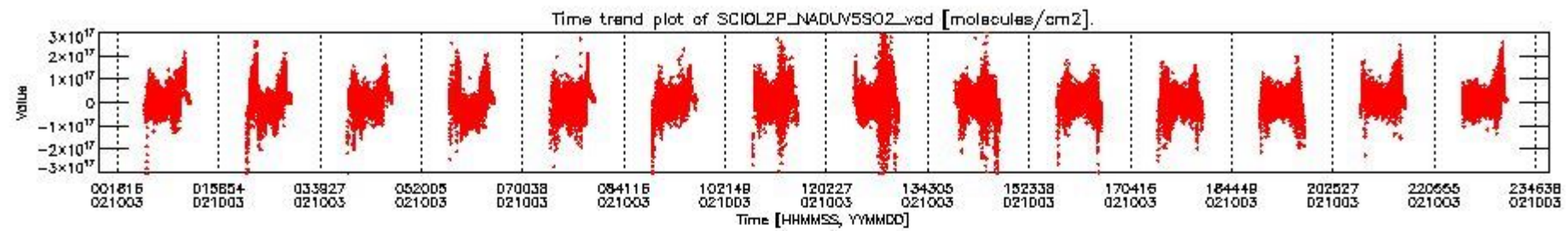
SCIOL2P_NADUV3BRO_amf_gr for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

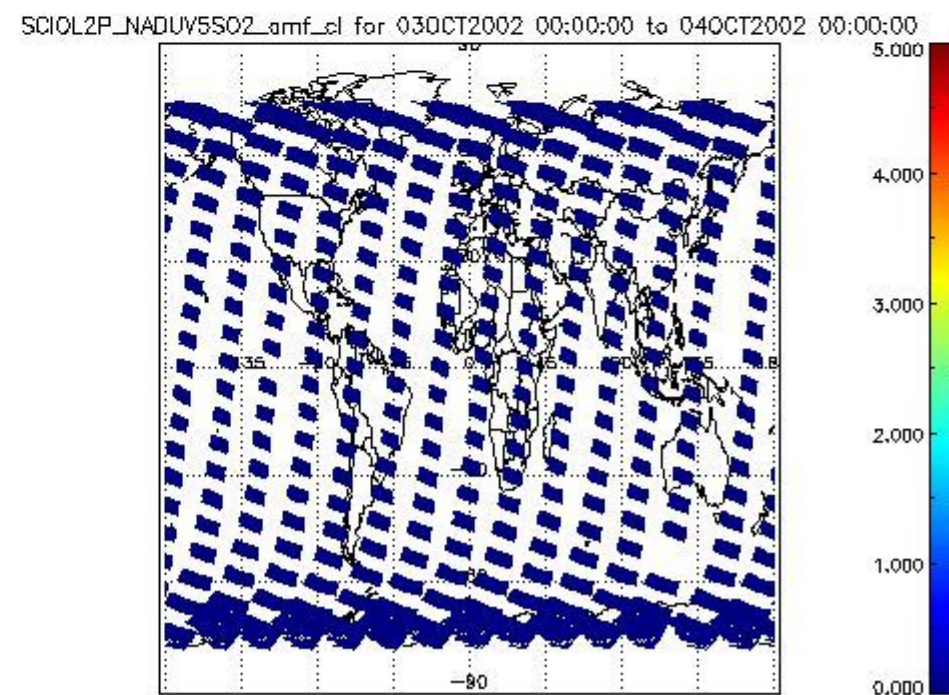
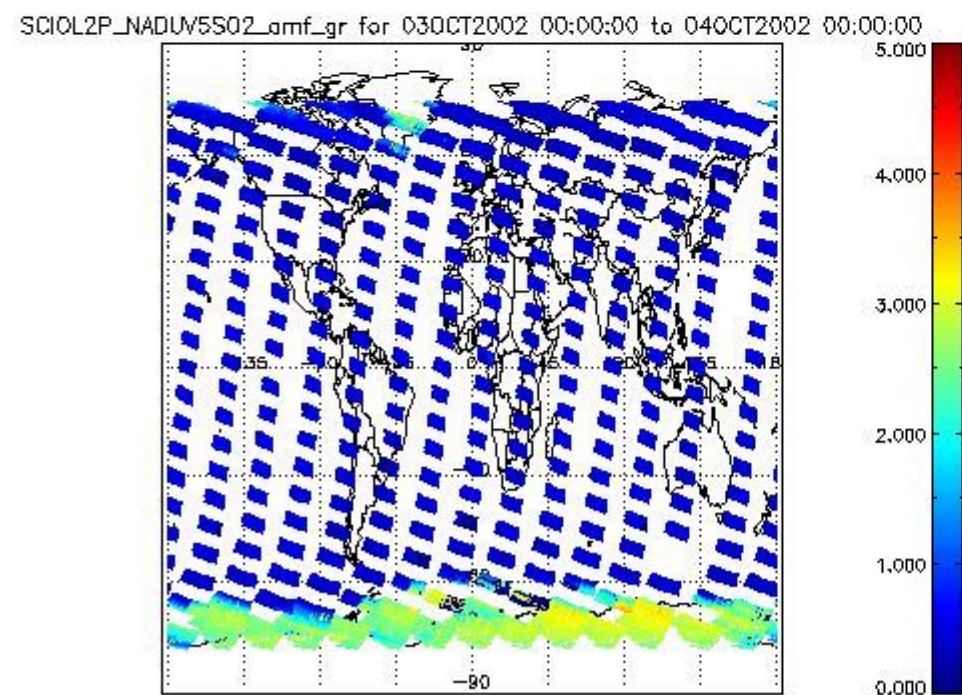
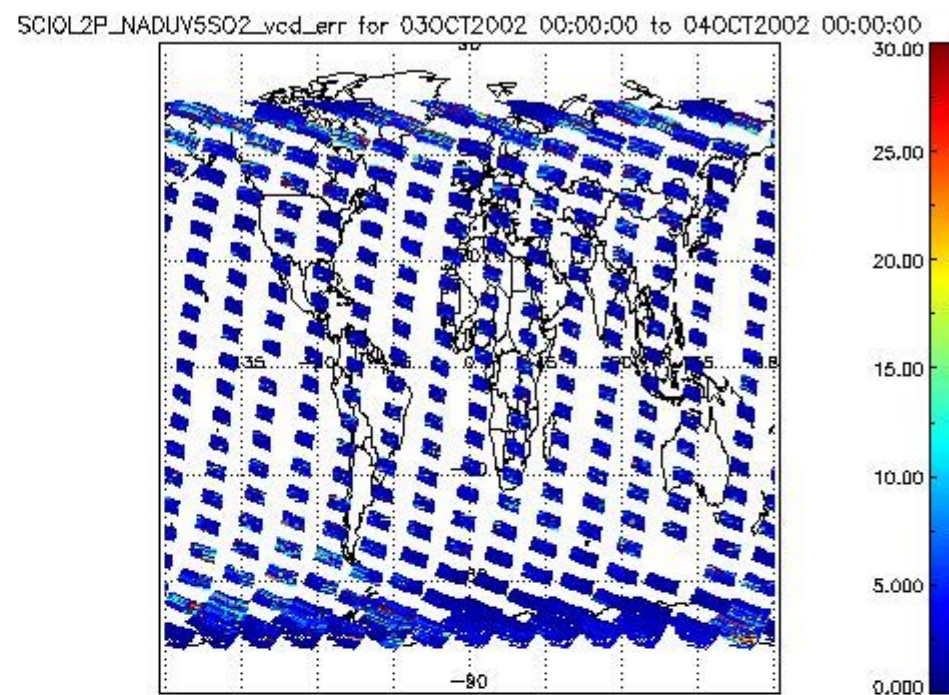
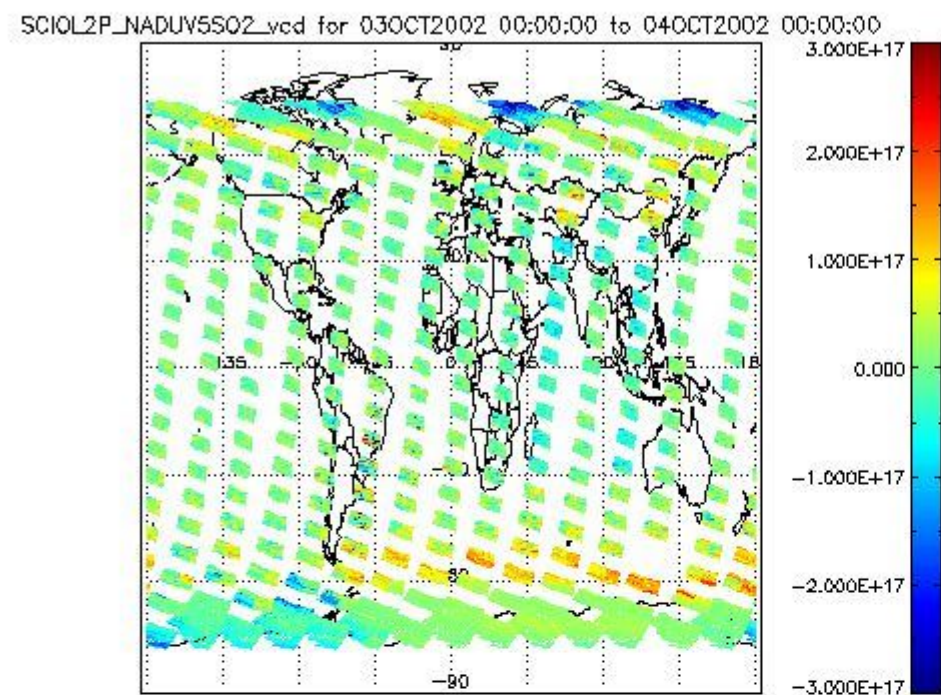


SCIOL2P_NADUV3BRO_amf_cl for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

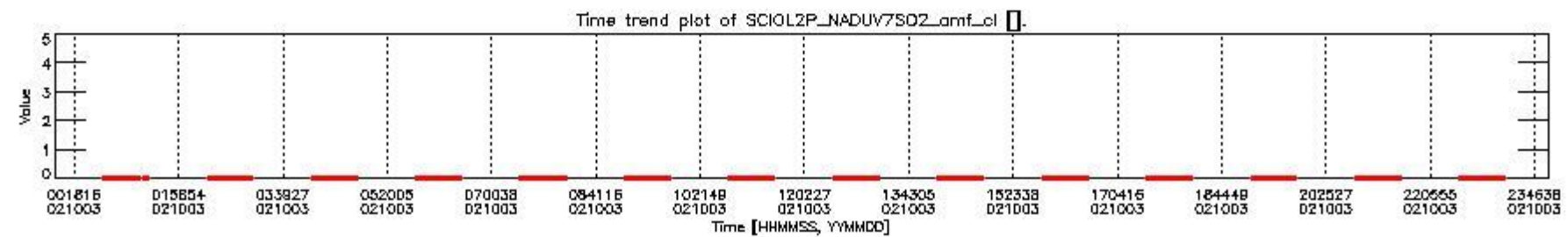
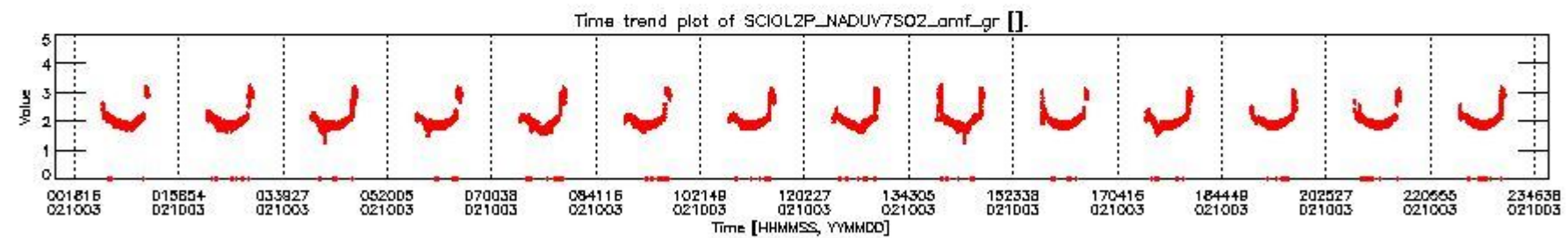
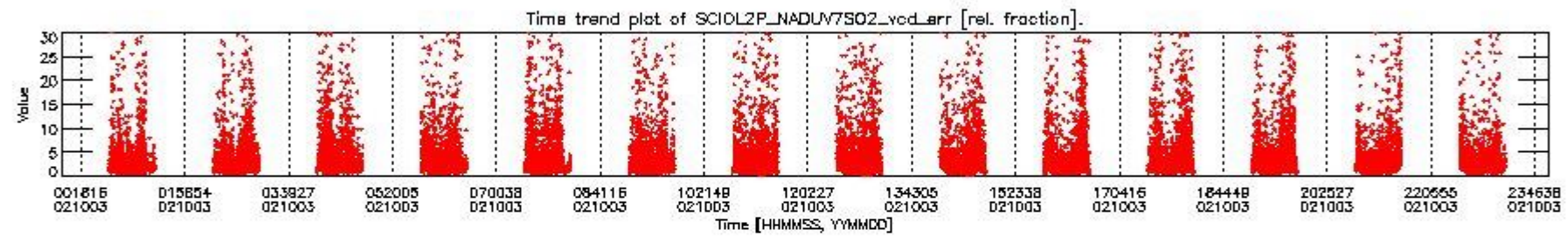
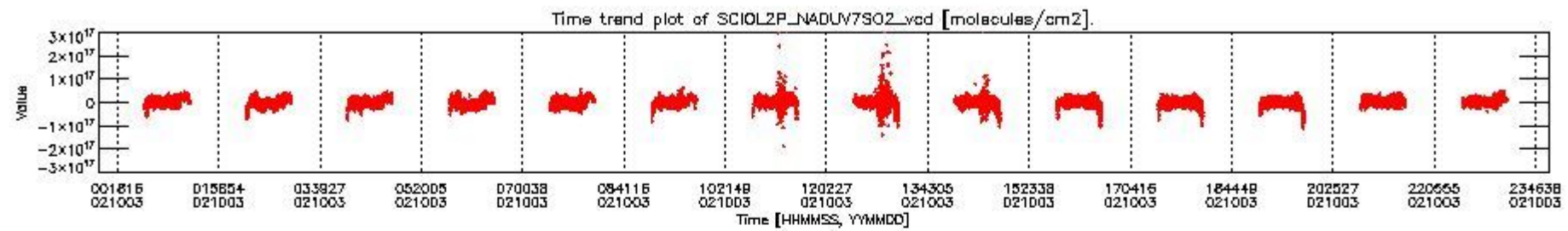


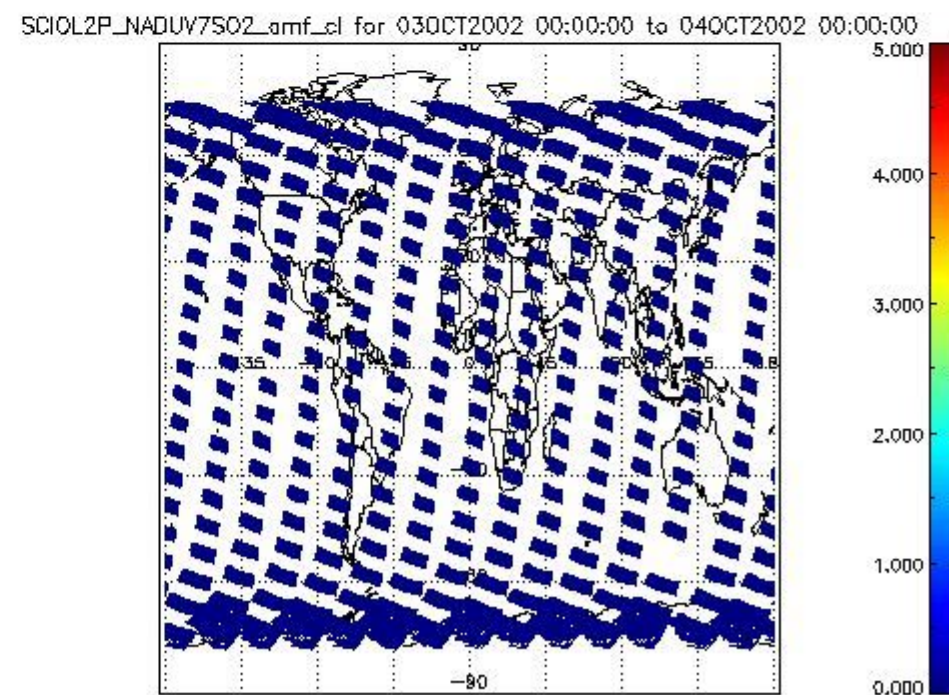
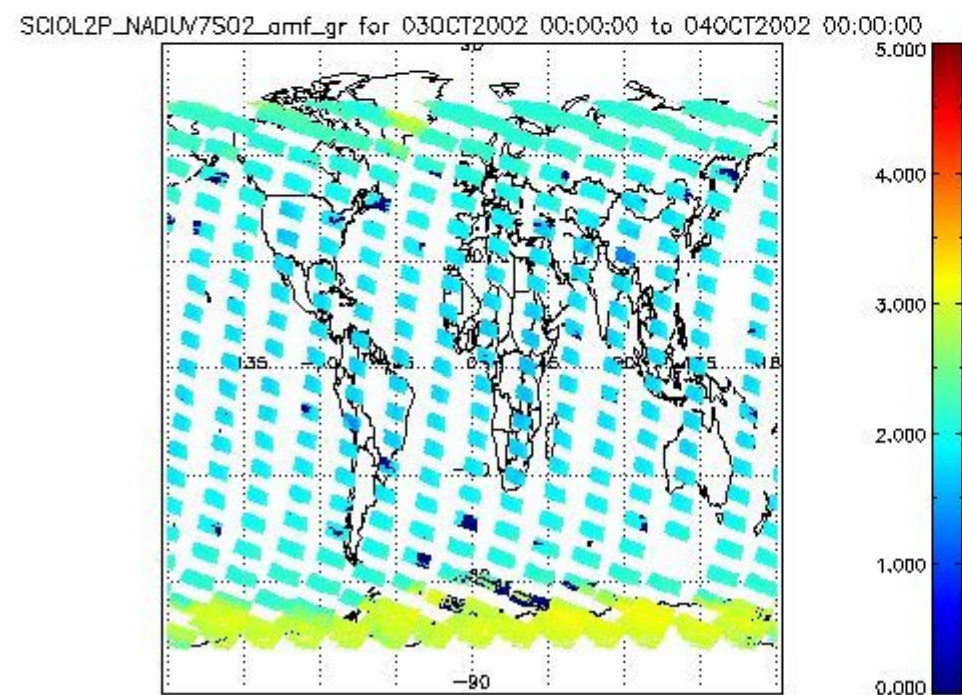
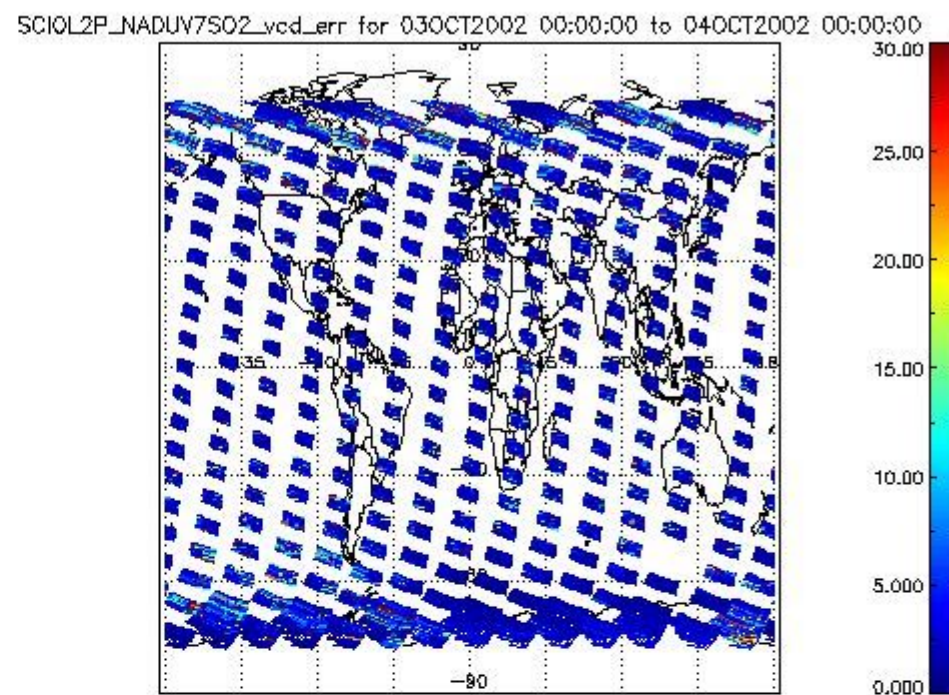
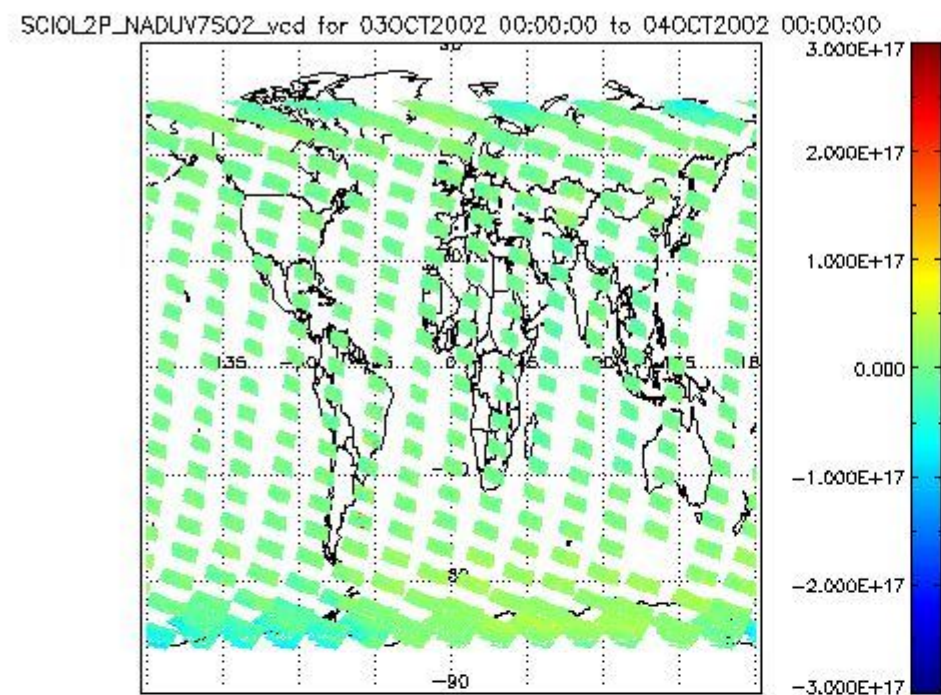
2.2.2.4 SO2 (UV5)



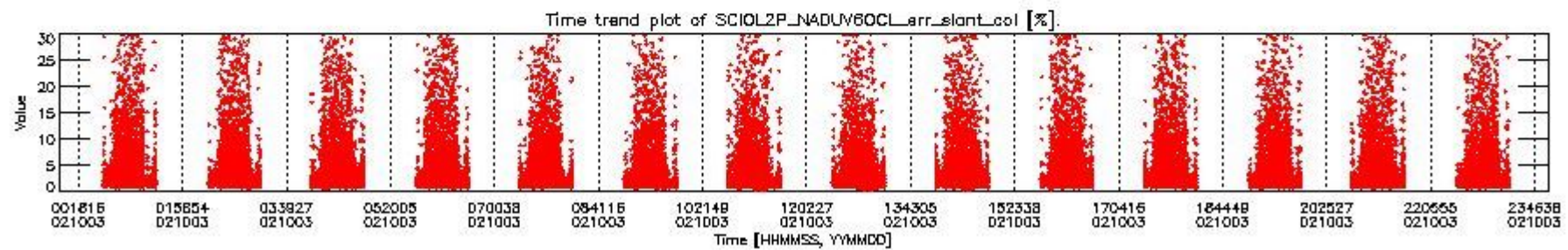
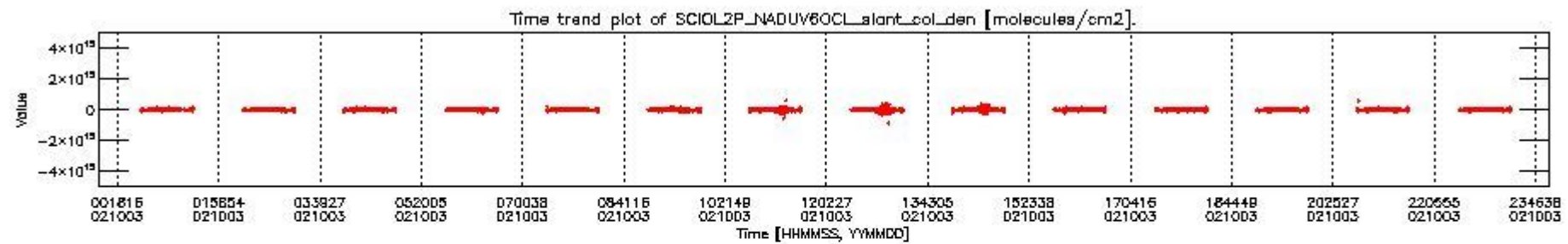


2.2.2.5 SO2 (UV7)

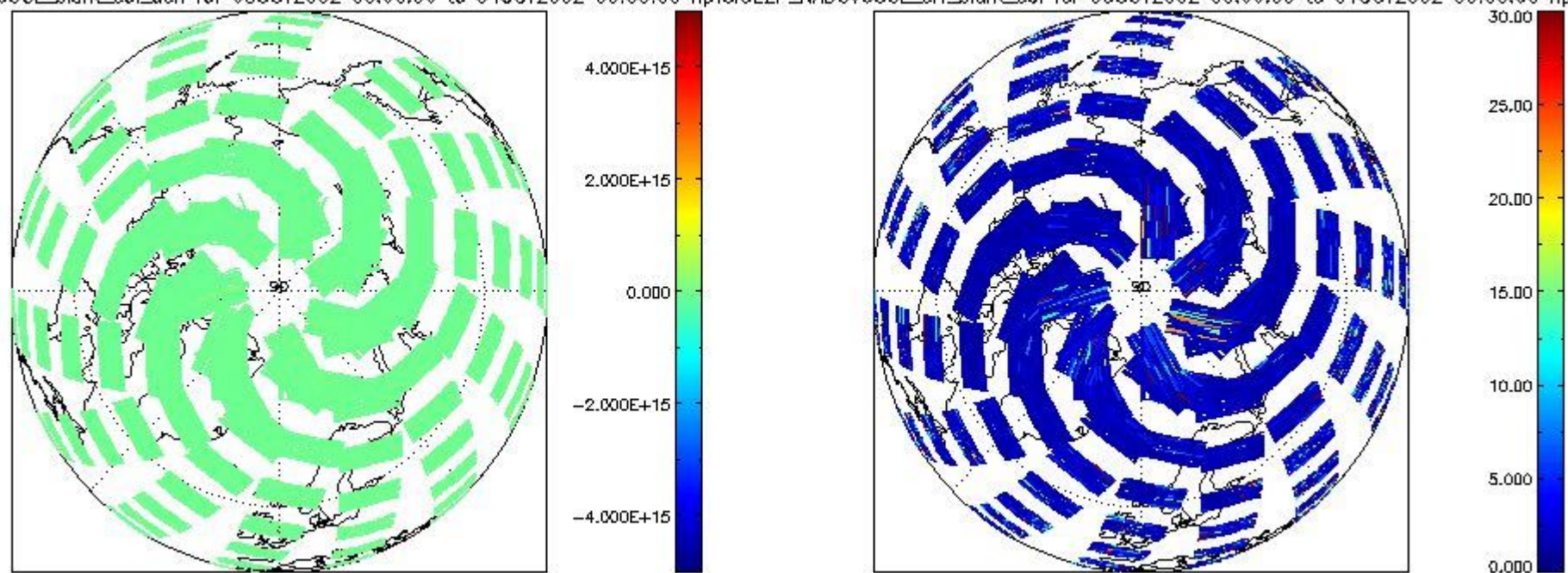




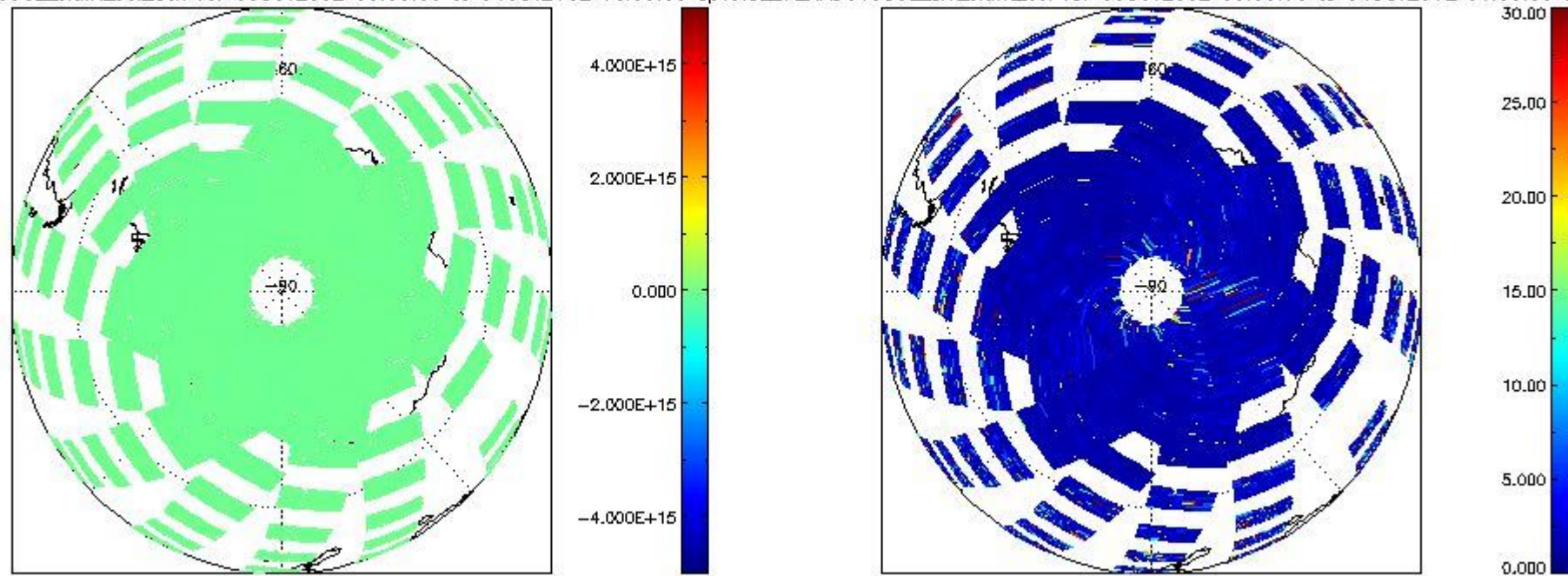
2.2.2.6 OCIO (UV6)



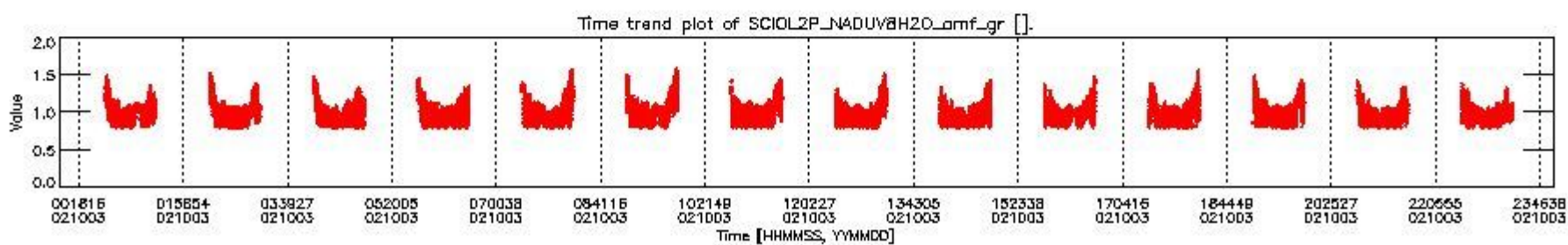
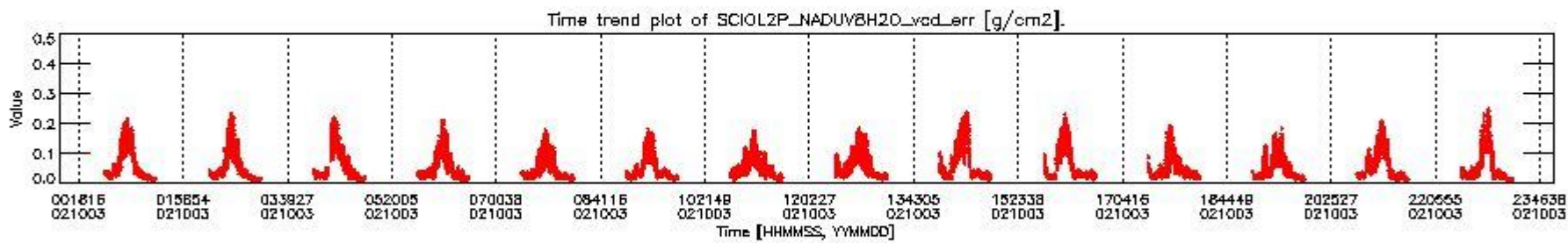
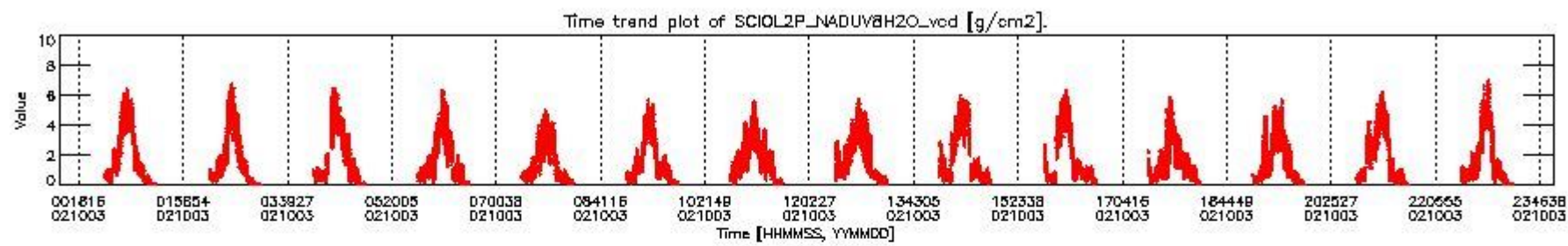
CIOL2P_NADUV60CL_slant_col_den for 03OCT2002 00:00:00 to 04OCT2002 00:00:00 np CIOL2P_NADUV60CL_err_slant_col for 03OCT2002 00:00:00 to 04OCT2002 00:00:00 np



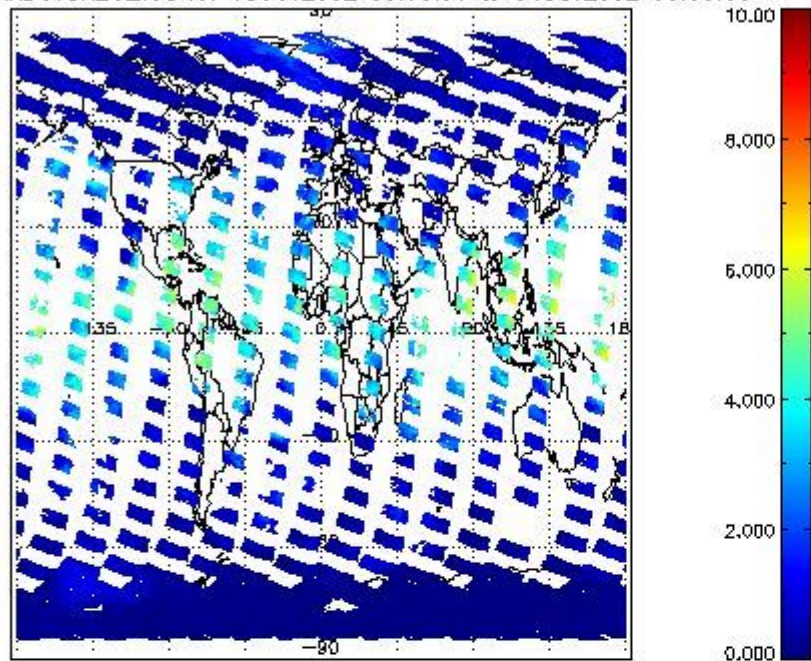
CIOL2P_NADUV60CL_slant_col_den for 03OCT2002 00:00:00 to 04OCT2002 00:00:00 sp; CIOL2P_NADUV60CL_err_slant_col for 03OCT2002 00:00:00 to 04OCT2002 00:00:00 sp



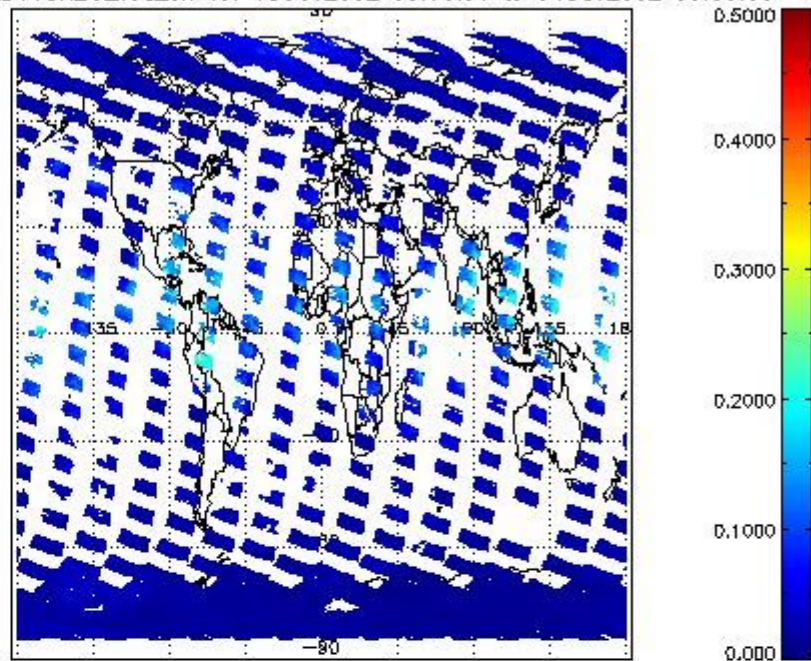
2.2.2.7 H2O (UV8)



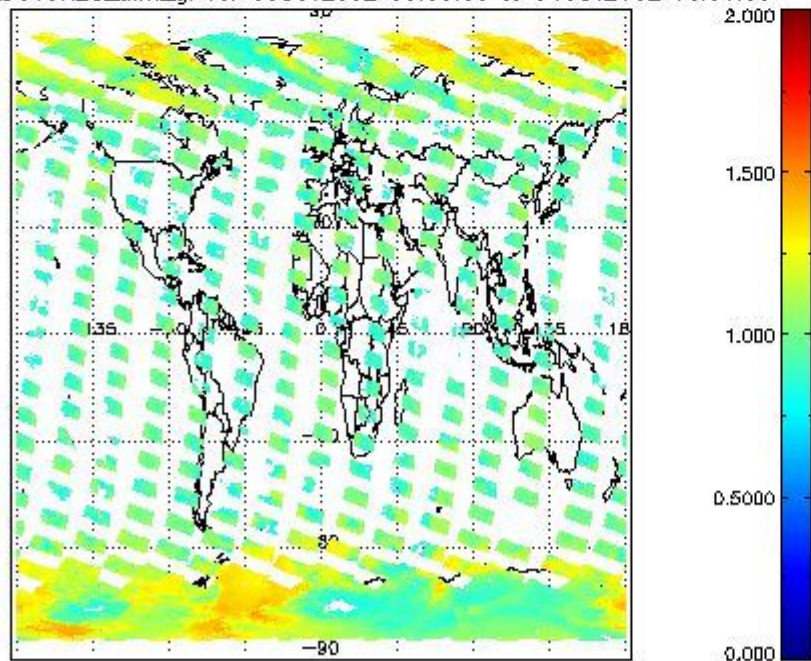
SCIOL2P_NADUV8H20_vcd for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

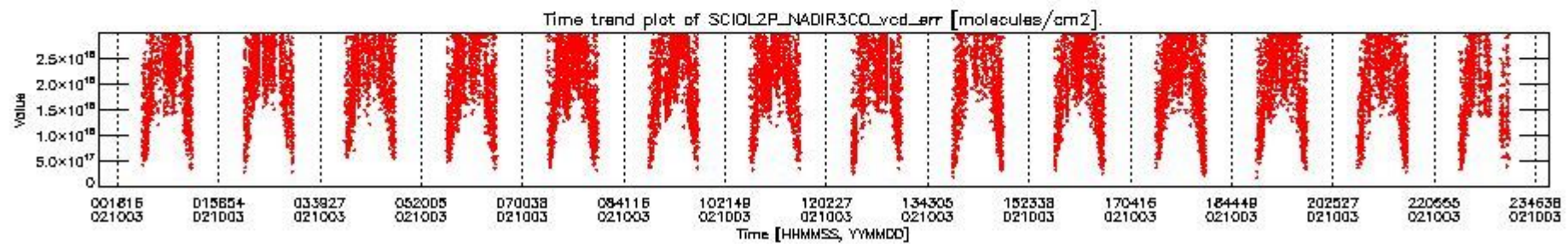
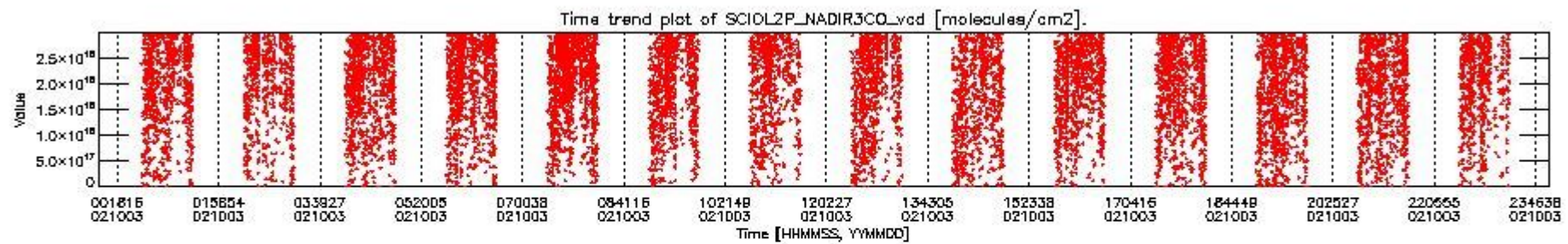


SCIOL2P_NADUV8H20_vcd_err for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

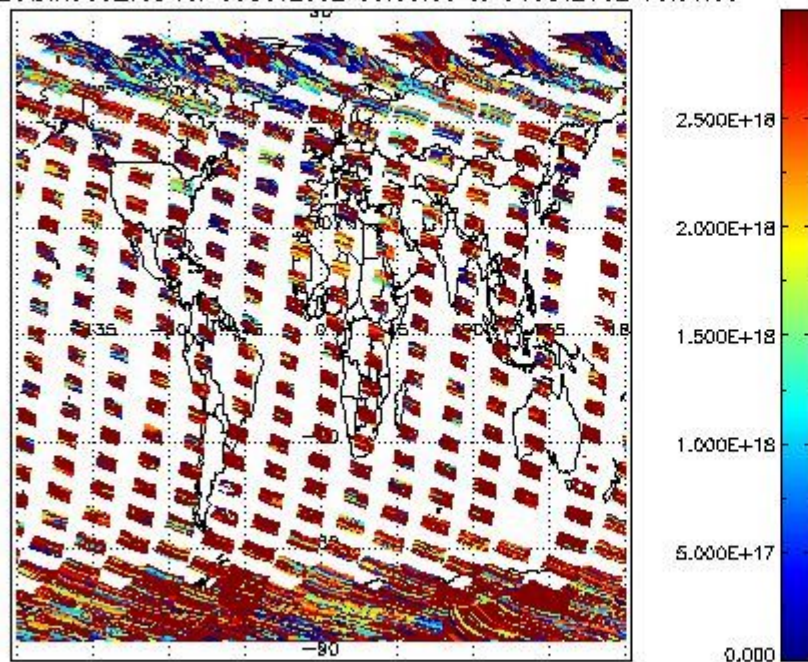


SCIOL2P_NADUV8H20_amf_gr for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

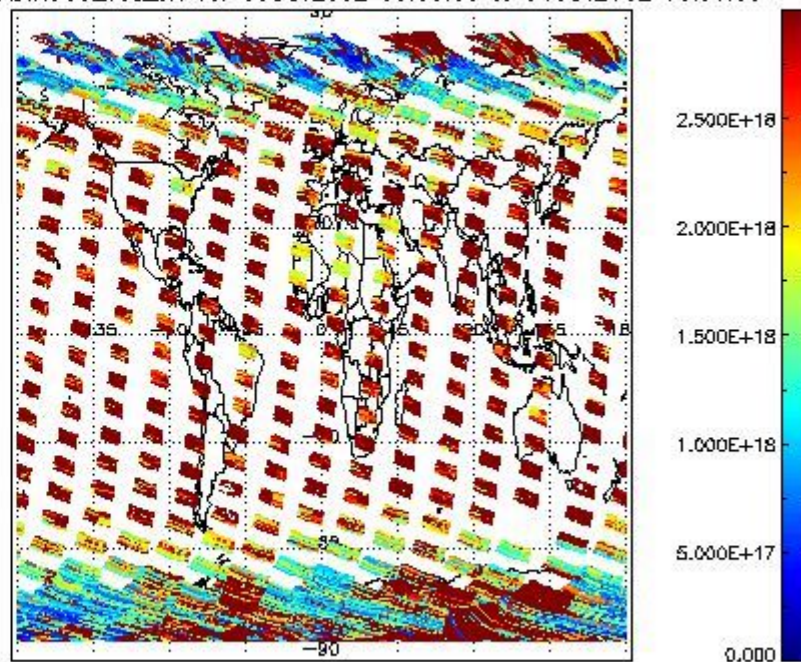




SCIO2P_NADIR3CO_vcd for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



SCIO2P_NADIR3CO_vcd_err for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



2.2.3 Limb

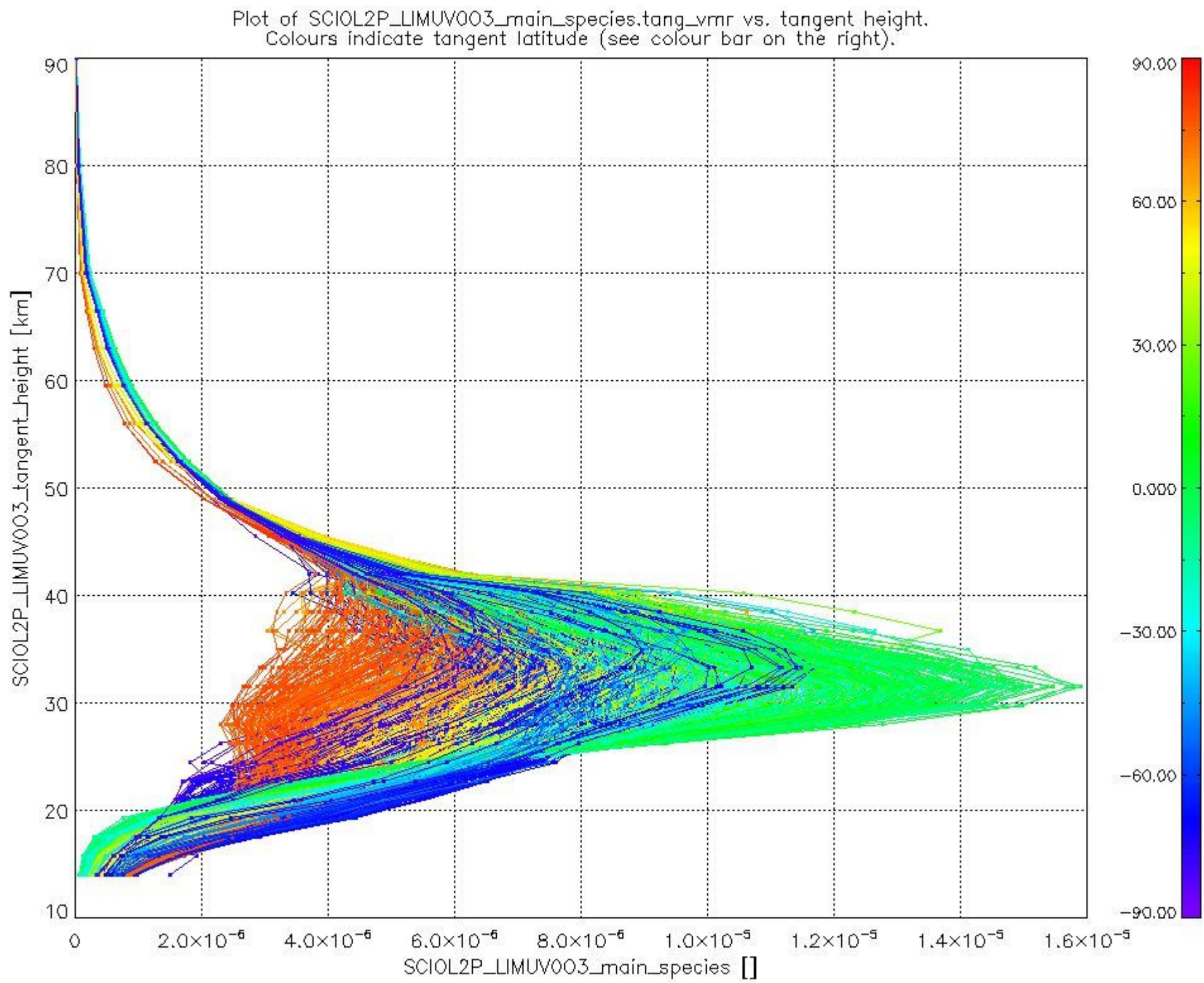
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

The following data items are currently included into this section:

Number	Data item ID
0	SCIO2P_LIMUV003_main_species
1	SCIO2P_LIMUV1NO2_main_species
2	SCIO2P_LIMUV3BRO_main_species

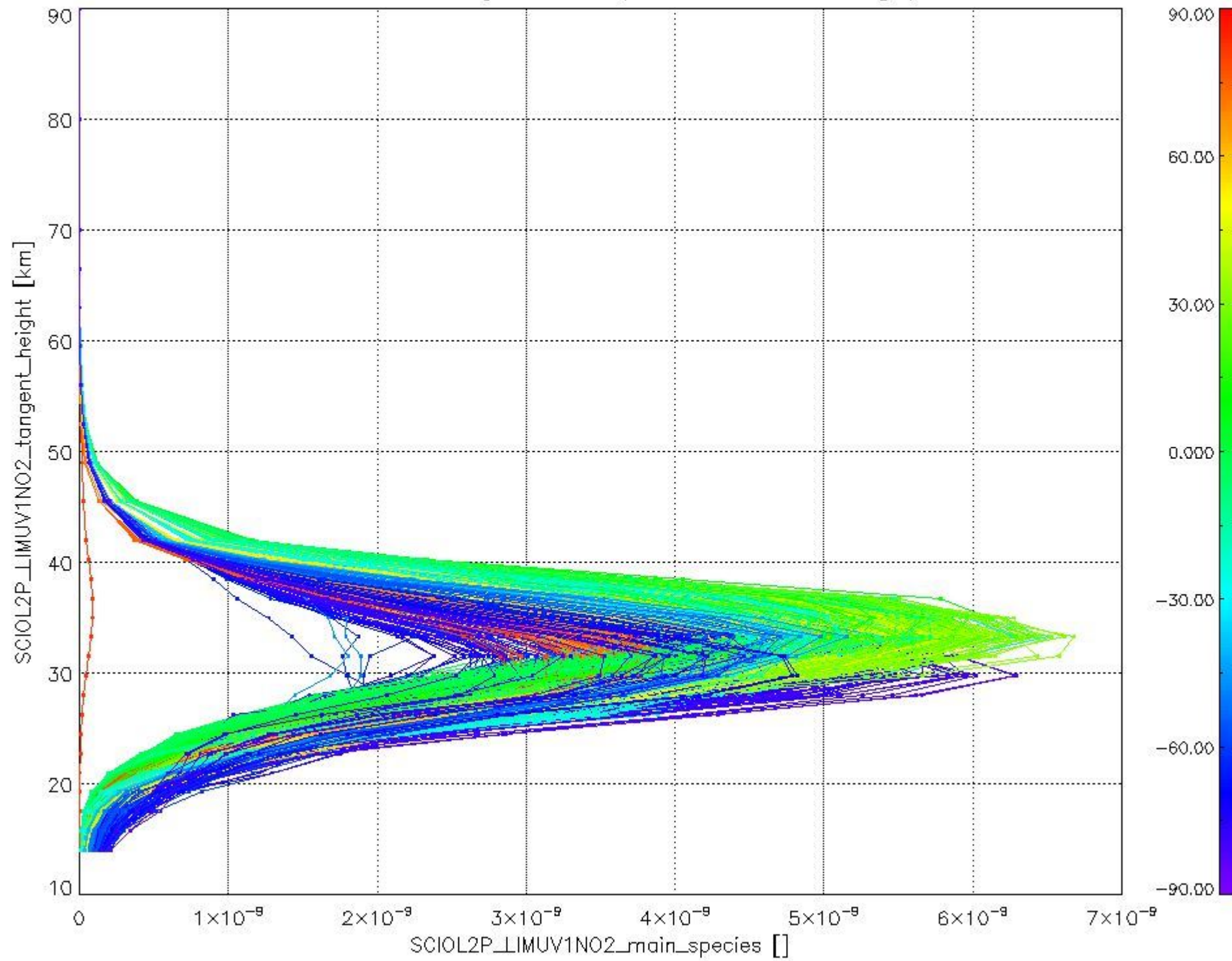
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



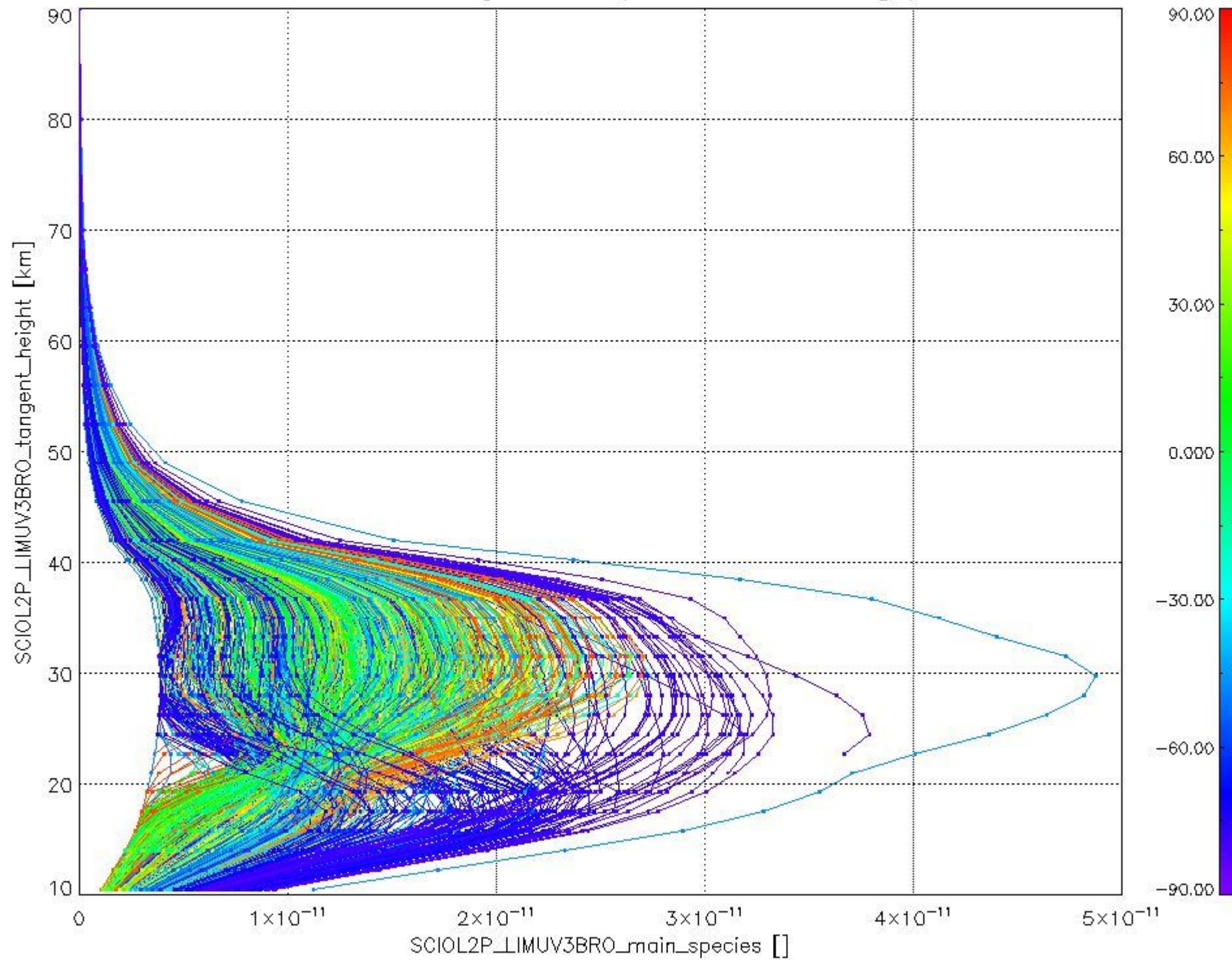
2.2.3.2 NO2 (UV1)

Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



2.2.3.3 BrO (UV3)

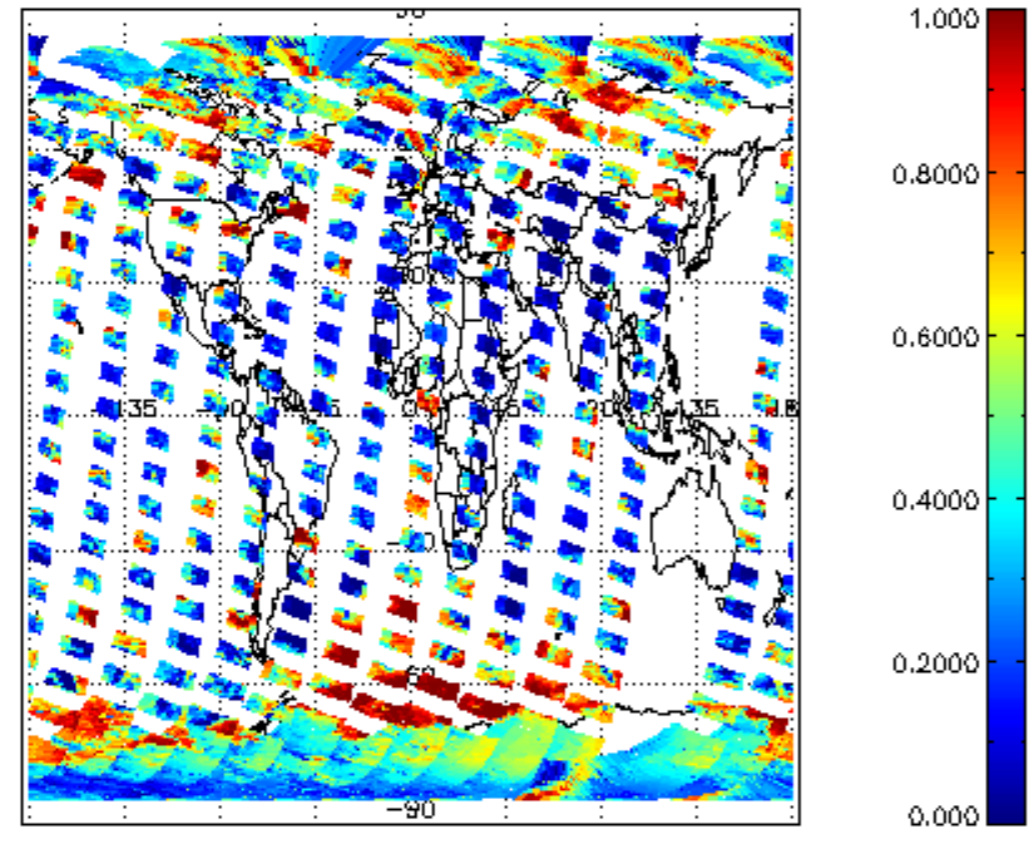
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



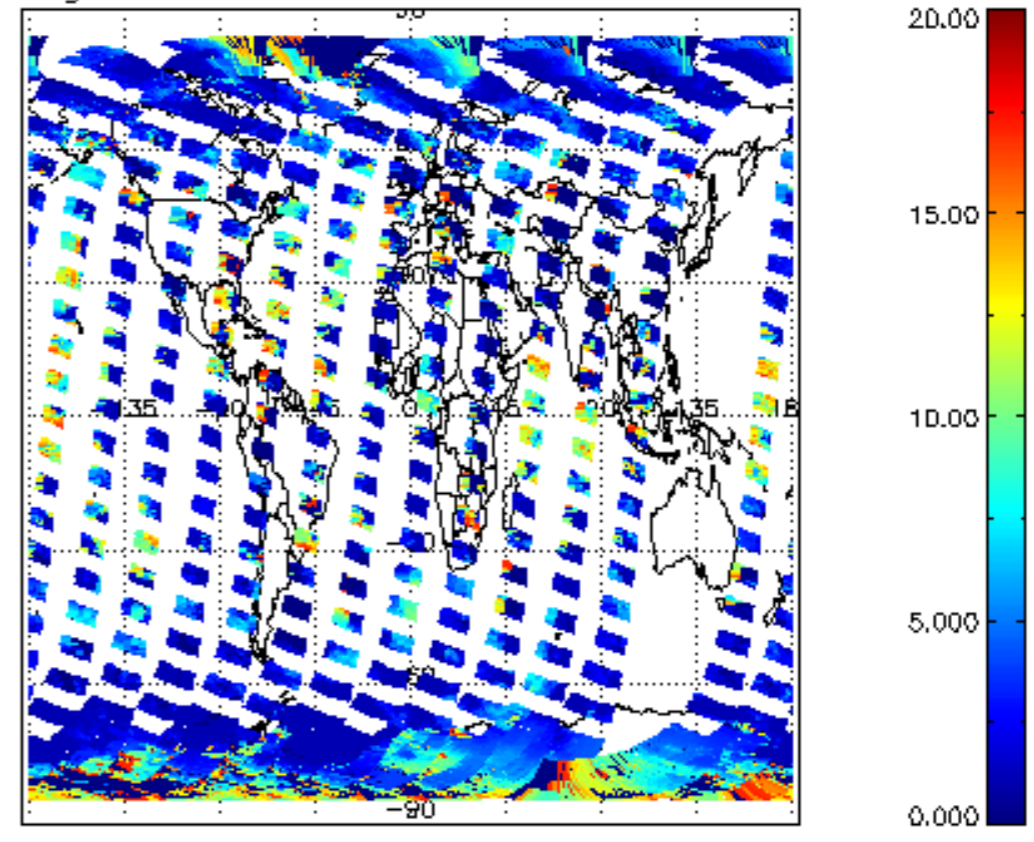
2.3 ADF monitoring

Number	ADF
	IN_ (INITIALISATION_FILE)
0	SCI_IN_AXNPDE20110201_120000_20020301_000000_20991231_235959
	ECF (ECMWF_FILE)
1	NOT USED
	MF1 (M_FACTOR_FILE)
2	SCI_MF1_AXNIEC20100218_140019_20021002_154427_20021004_154427
3	SCI_MF1_AXNIEC20100218_140120_20021003_151250_20021005_151250

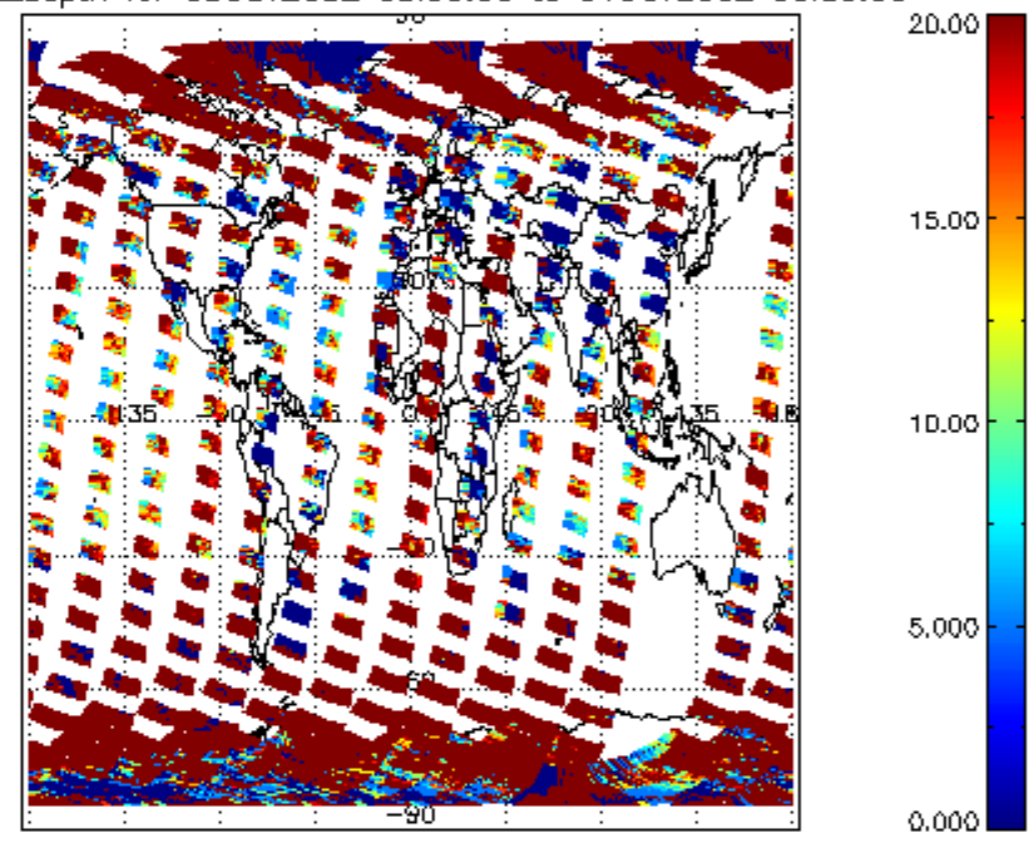
cl_frac for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



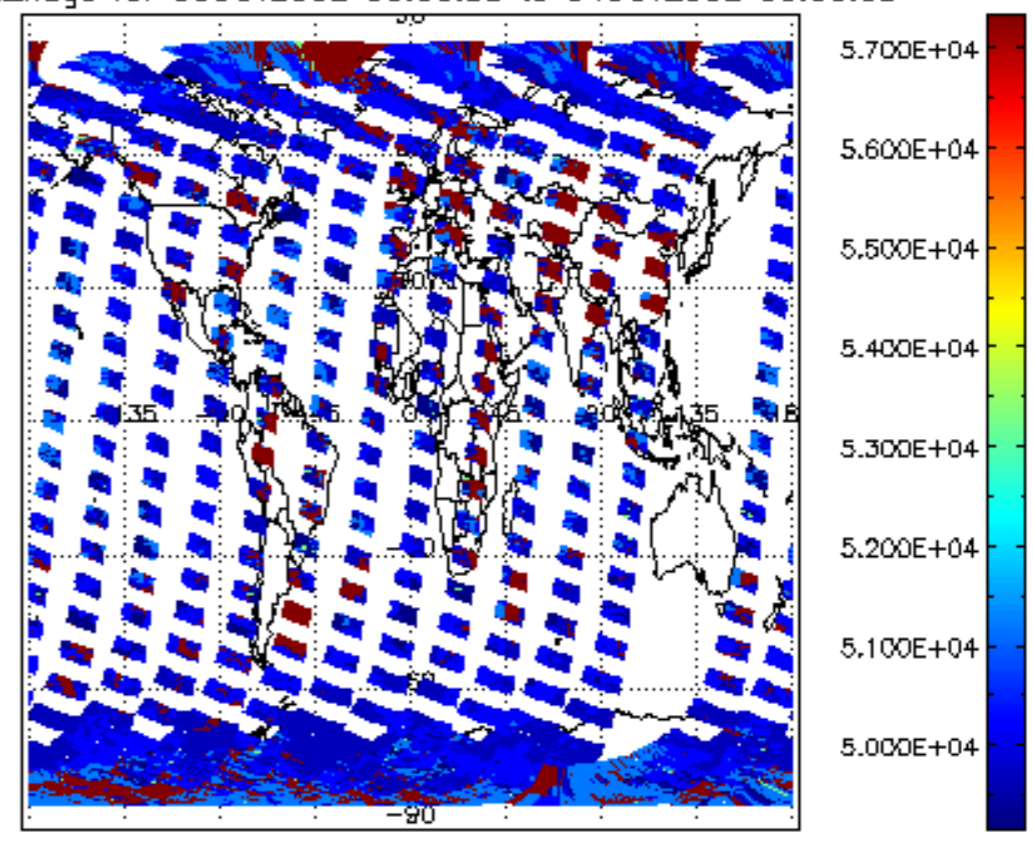
cl_top_height for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

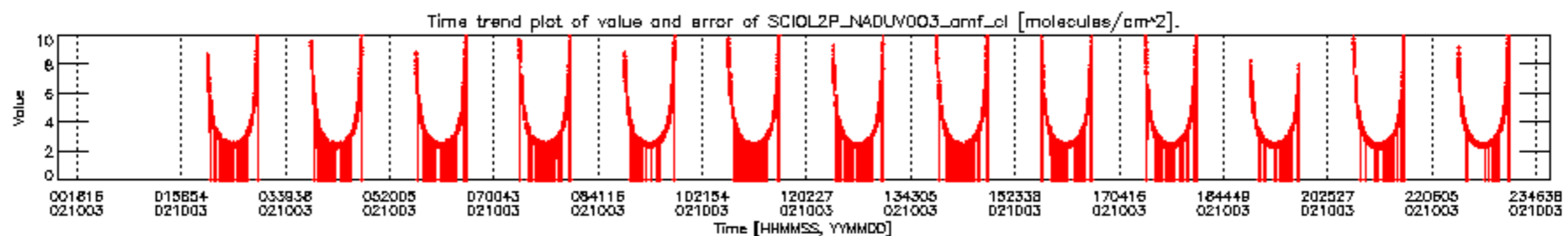
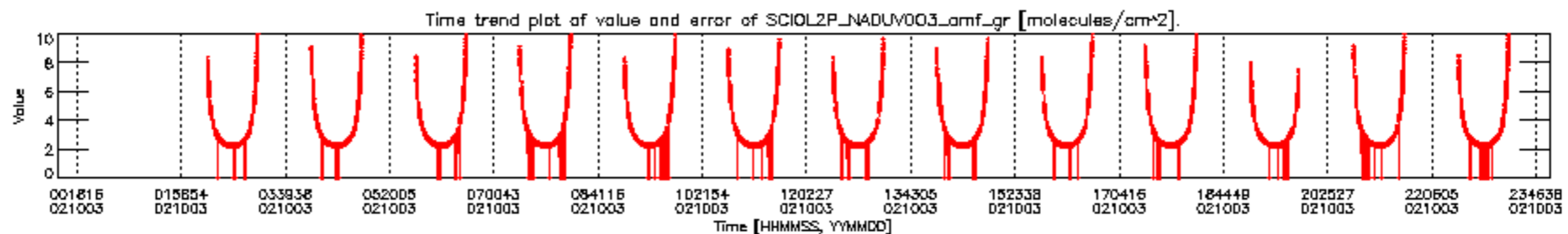
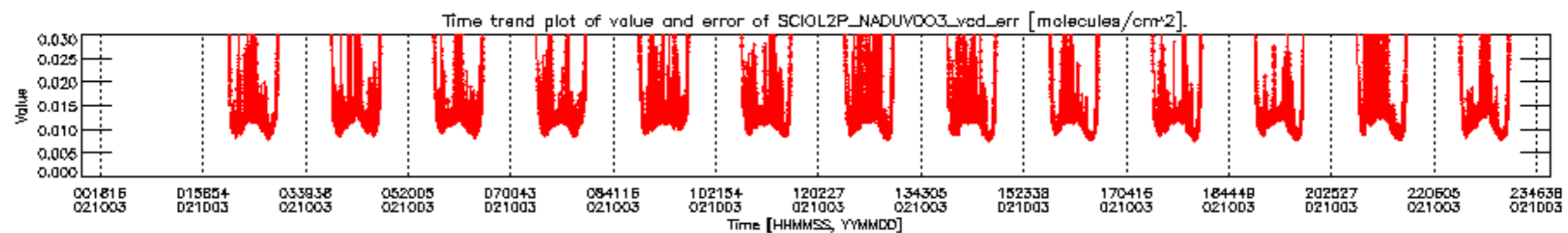
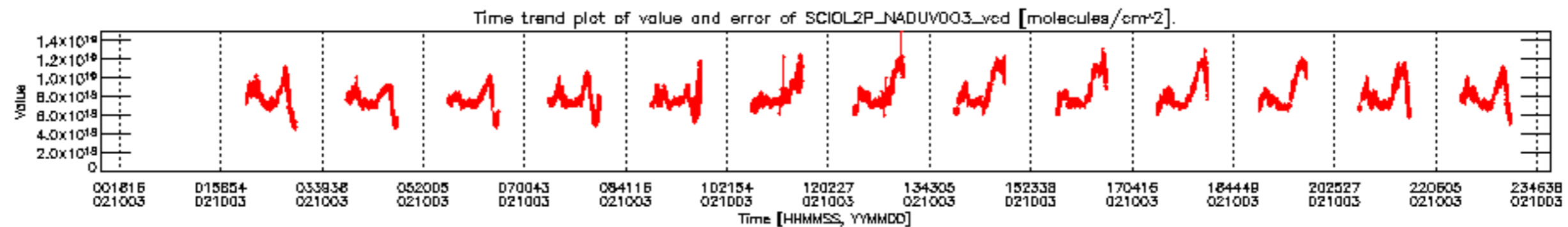


cl_opt_depth for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

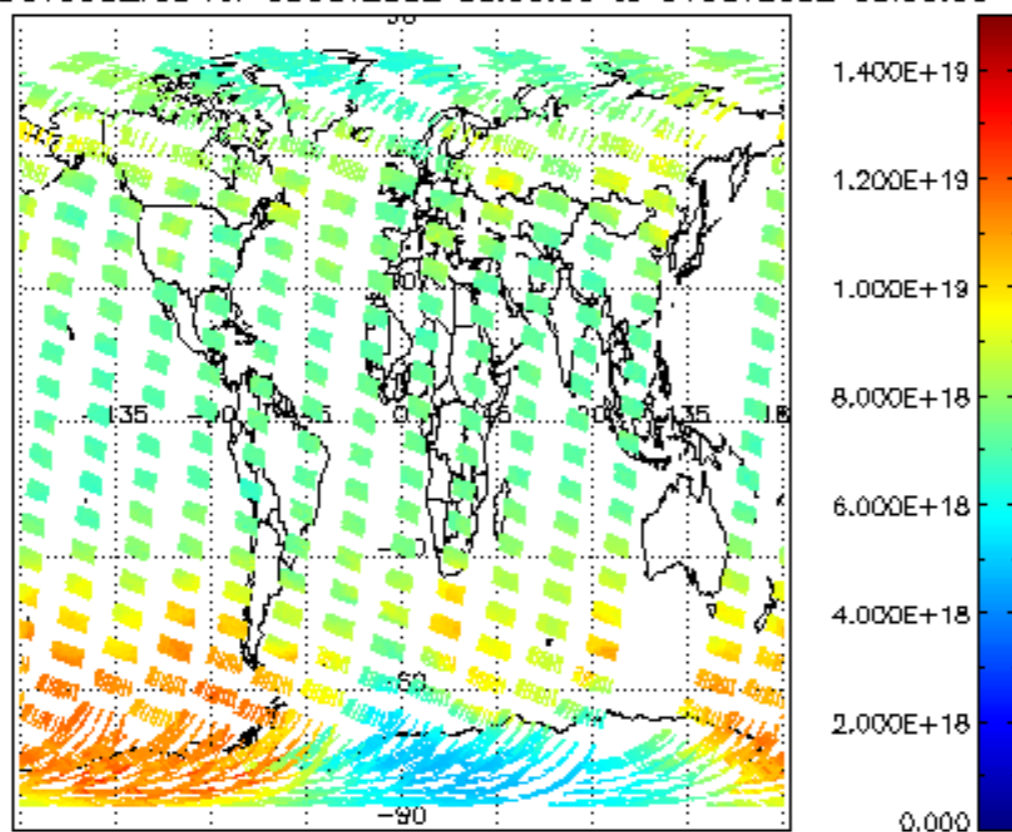


cloud_flags for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

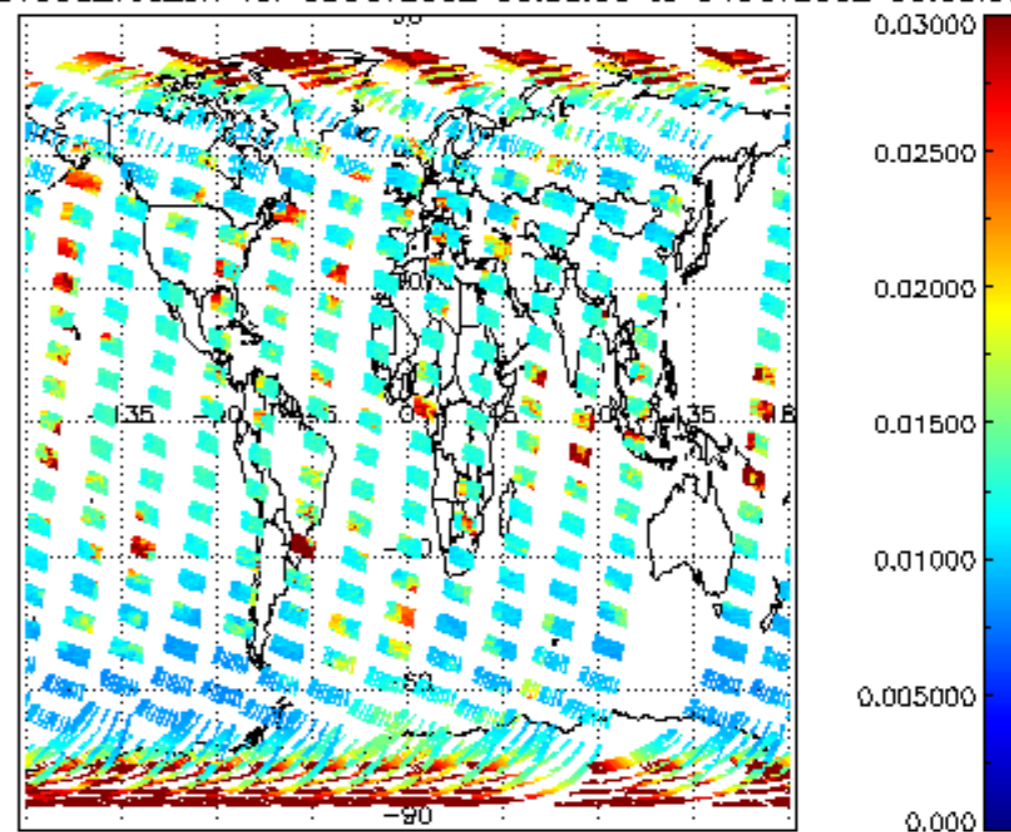




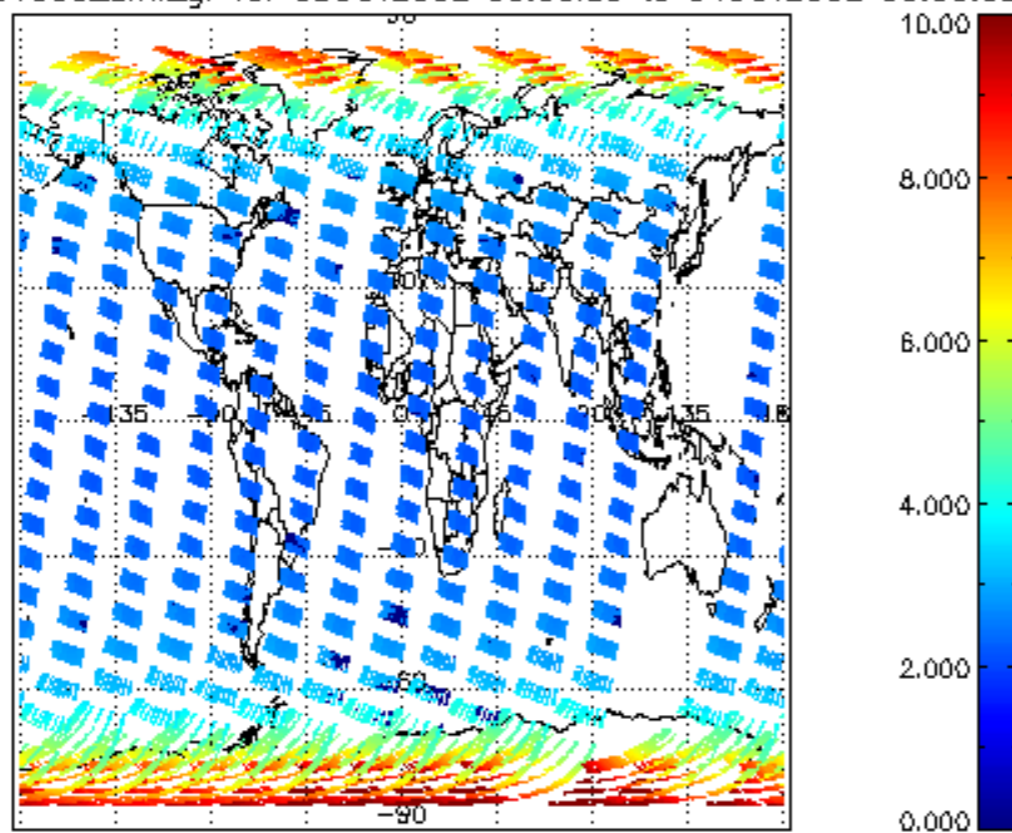
SCIOL2P_NADUV003_vcd for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



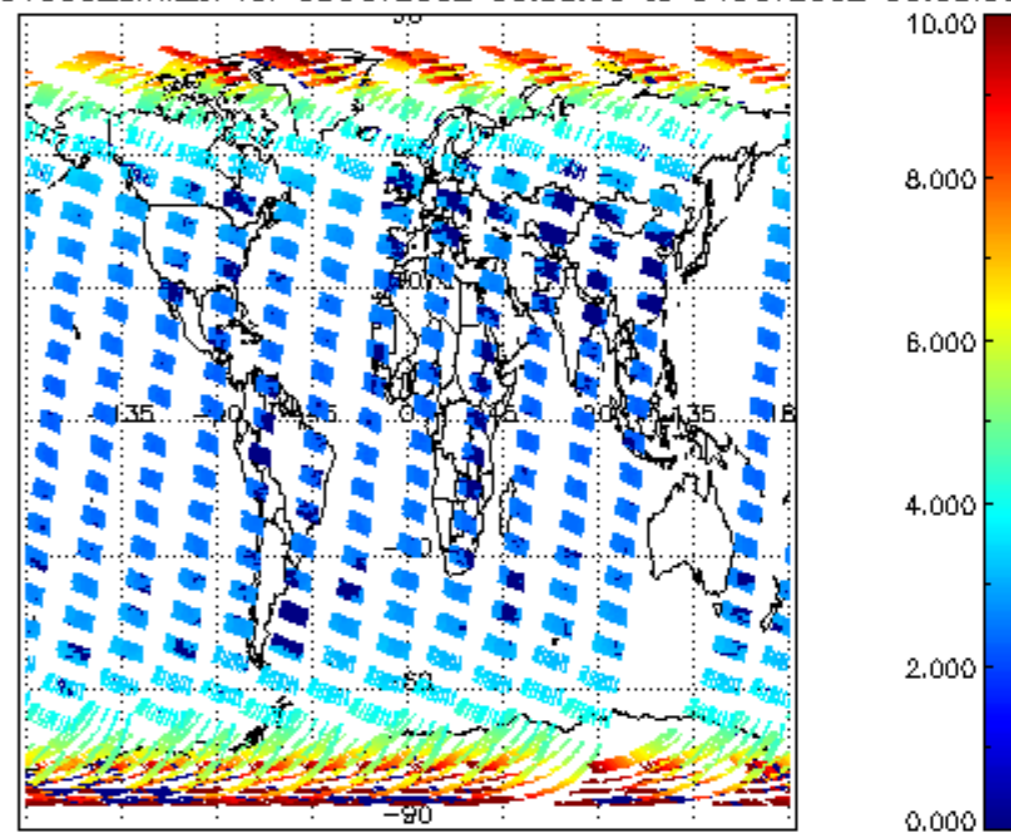
SCIOL2P_NADUV003_vcd_err for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

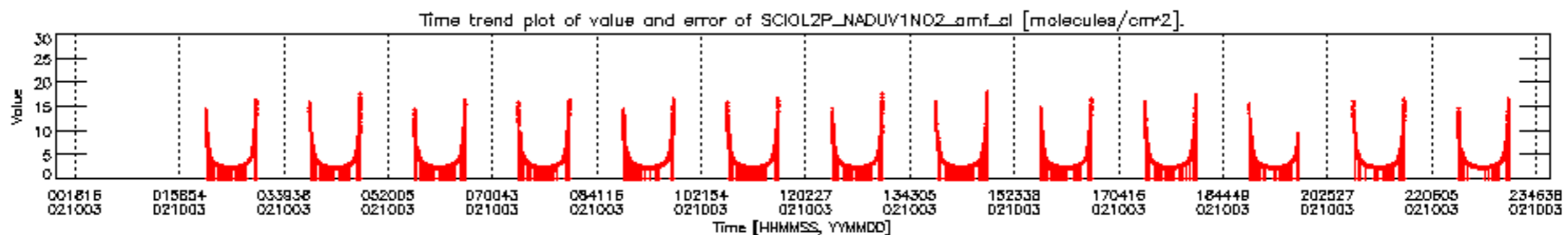
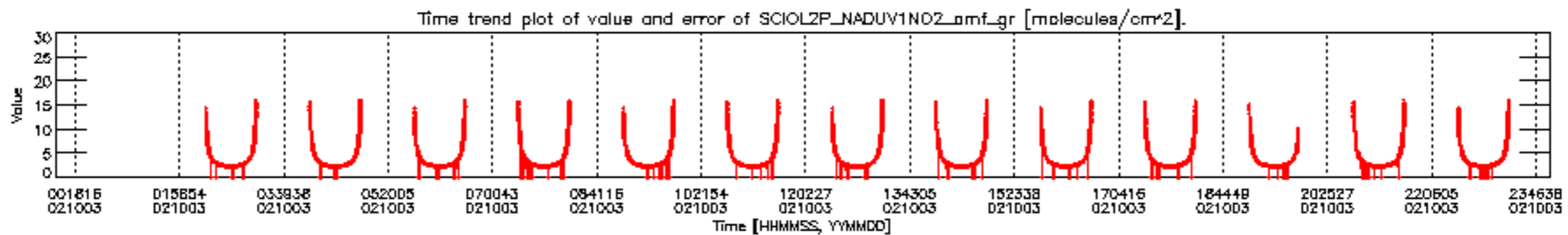
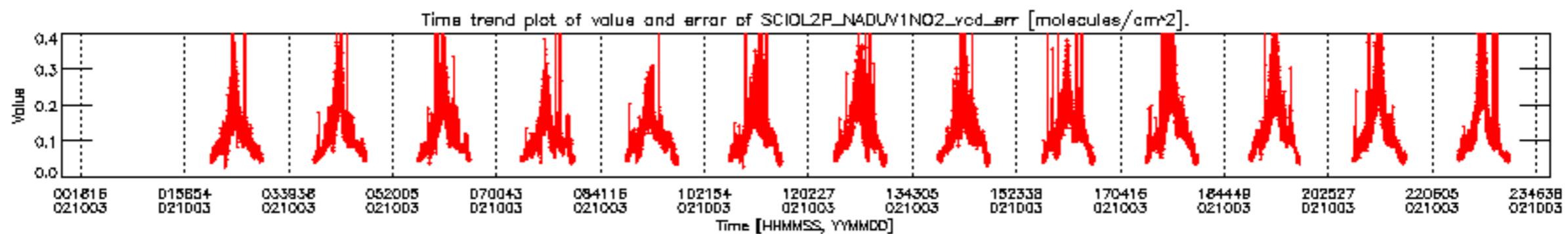
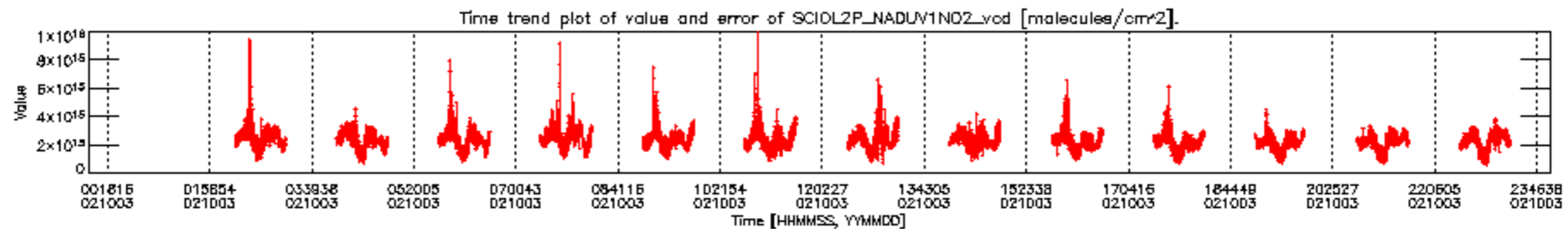


SCIOL2P_NADUV003_amf_gr for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

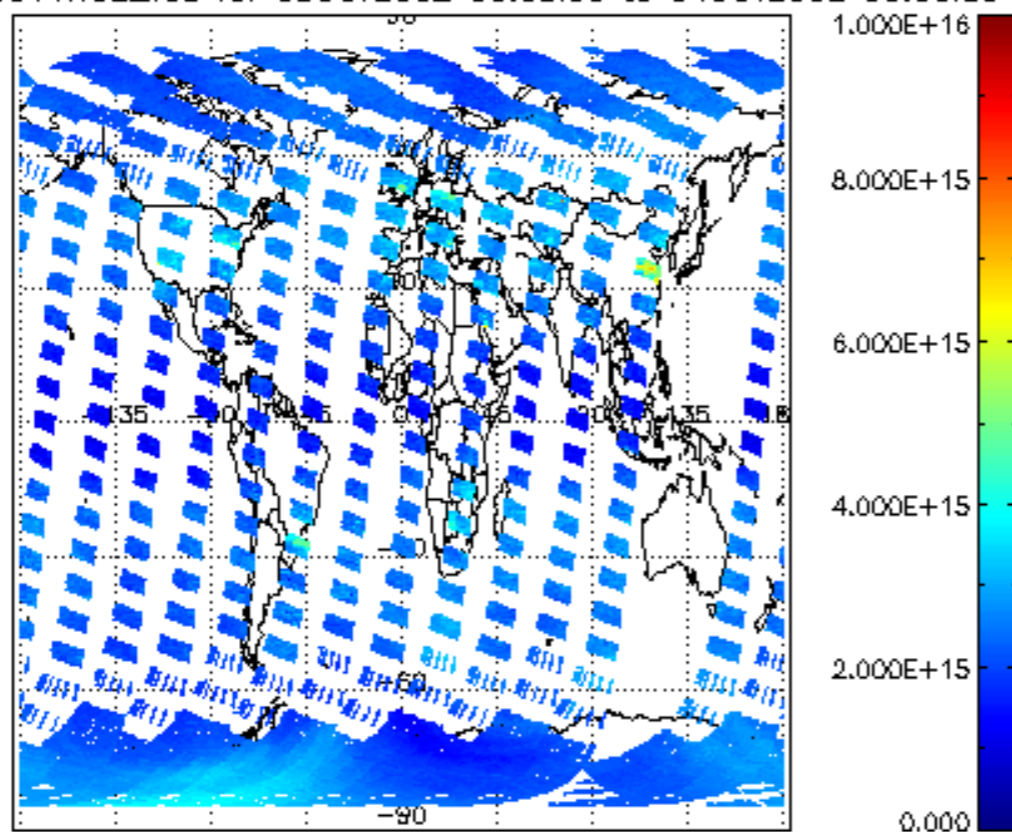


SCIOL2P_NADUV003_amf_sl for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

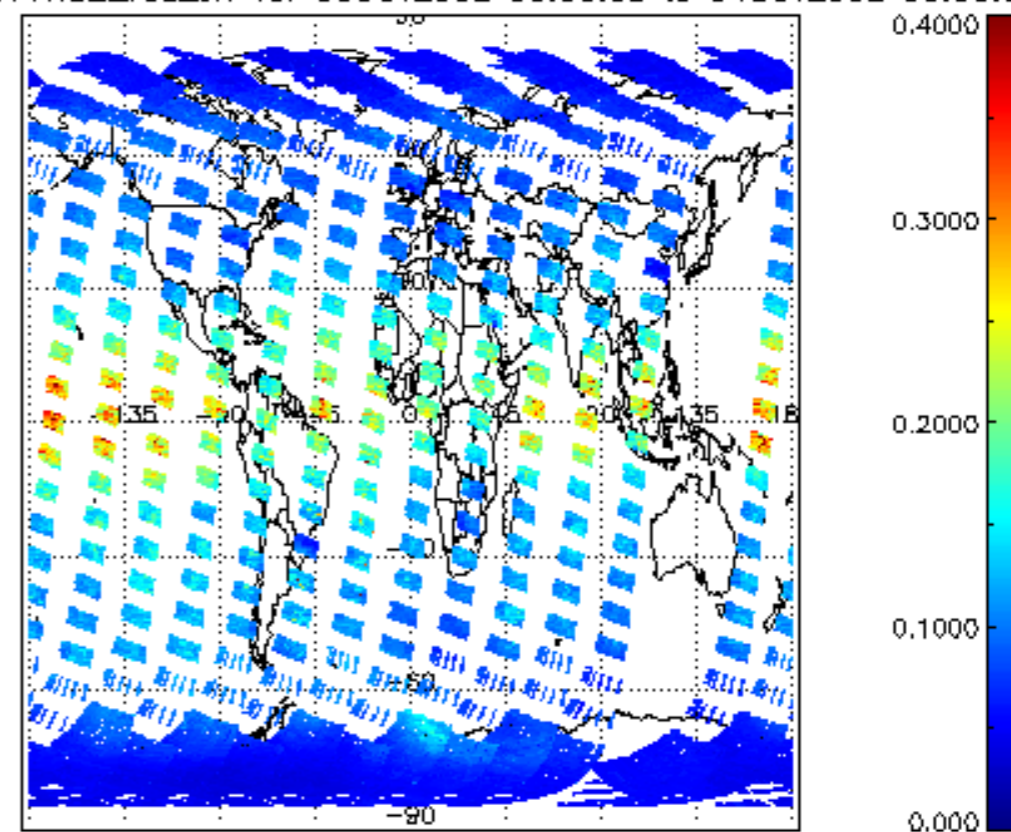




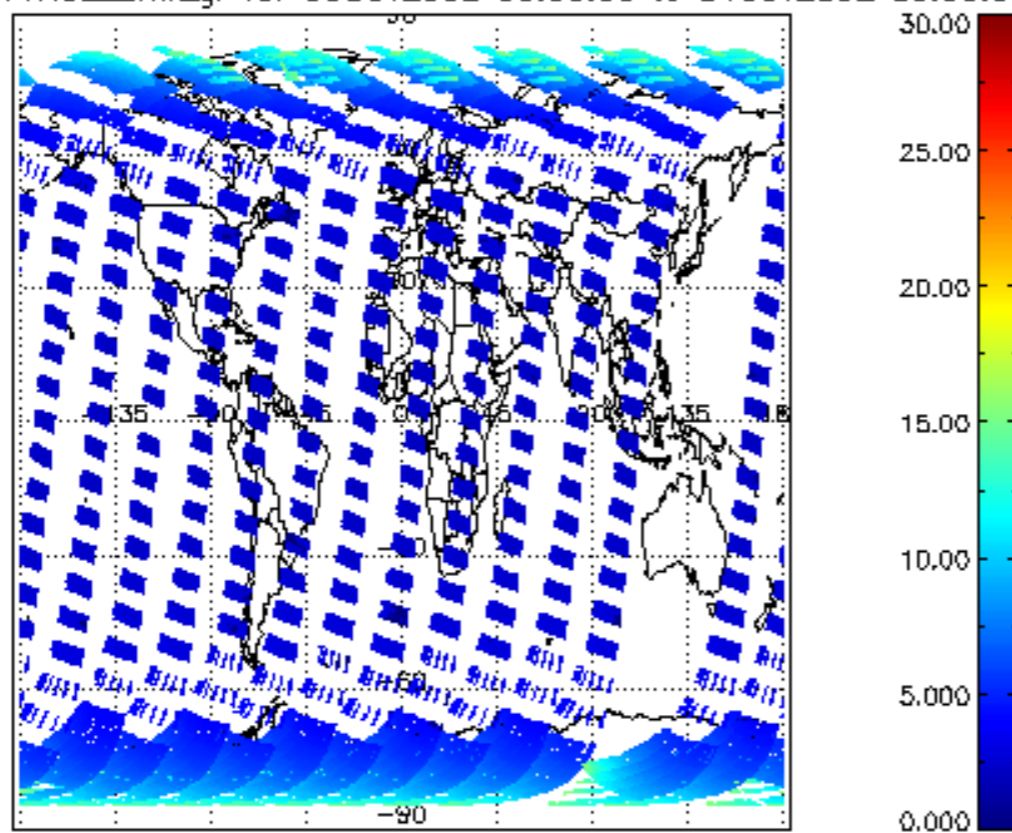
SCIOL2P_NADUV1NO2_vcd for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



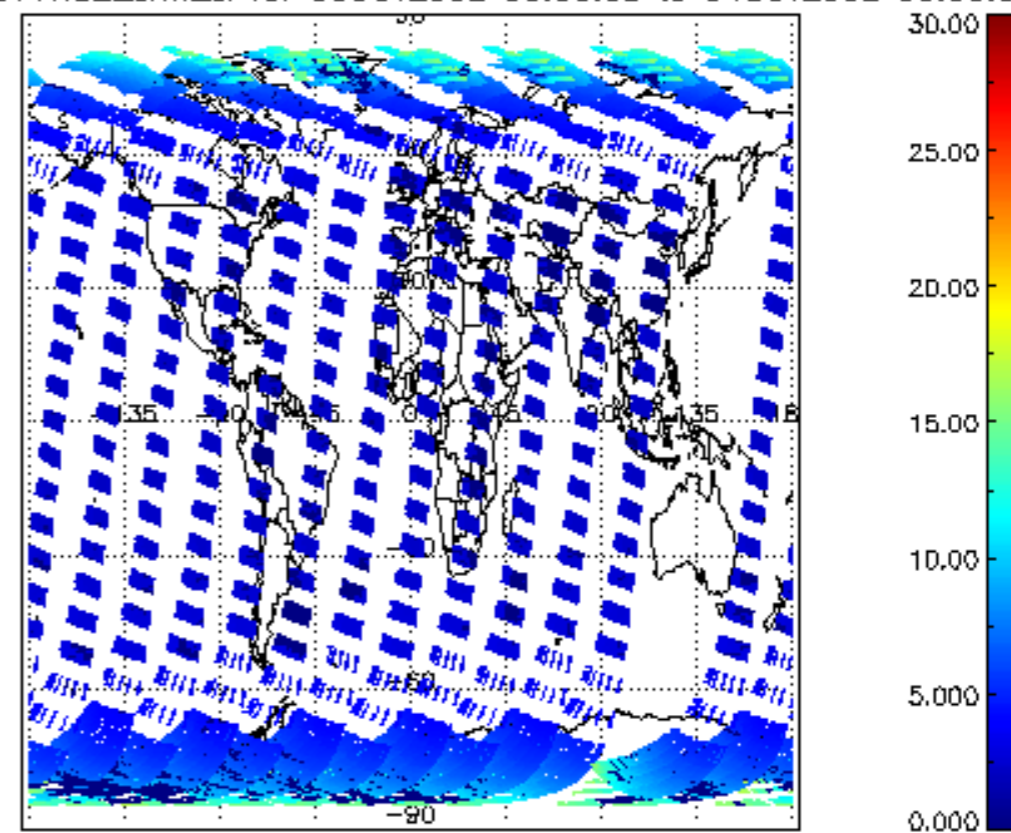
ICIOL2P_NADUV1NO2_vcd_err for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



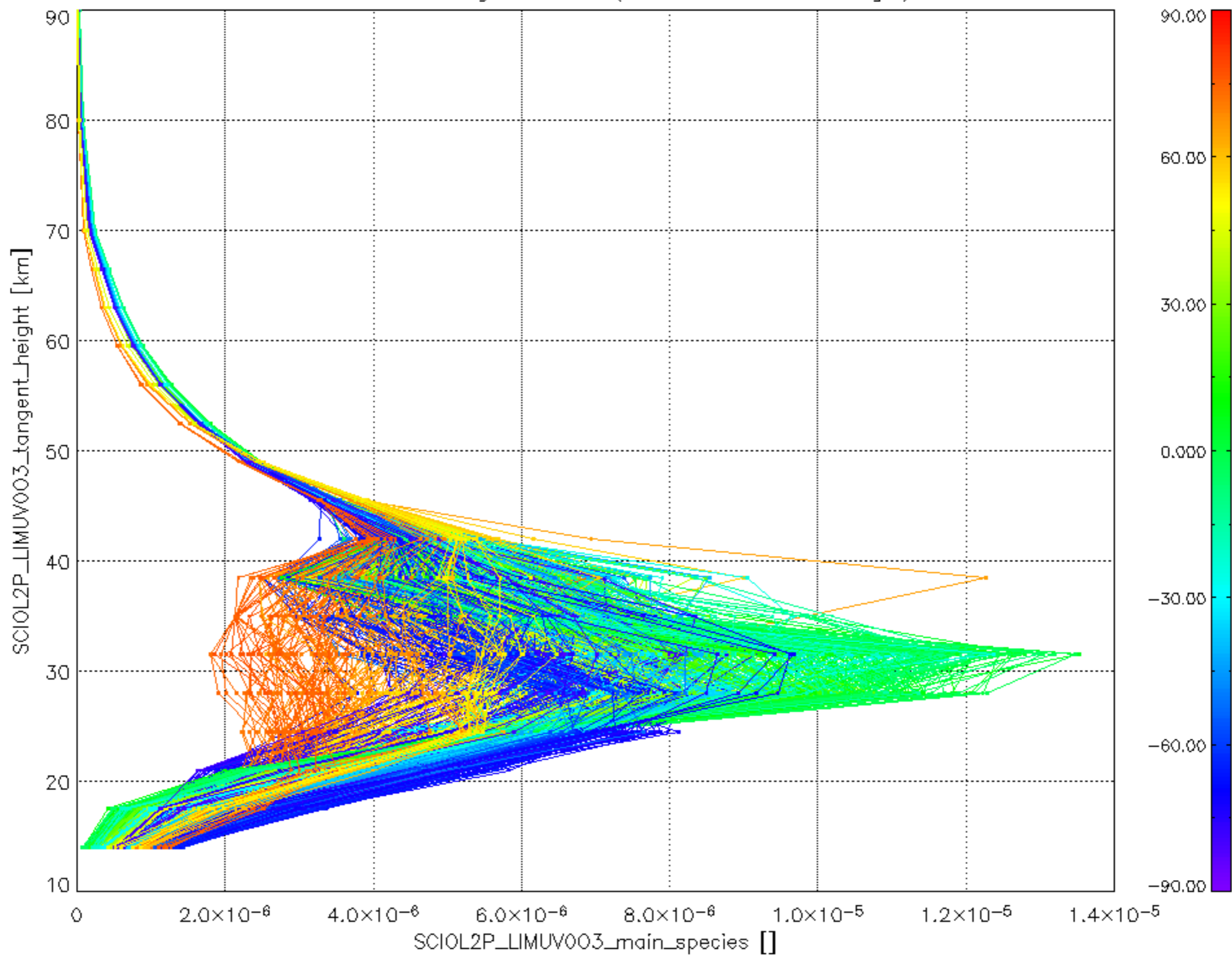
ICIOL2P_NADUV1NO2_amf_gr for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



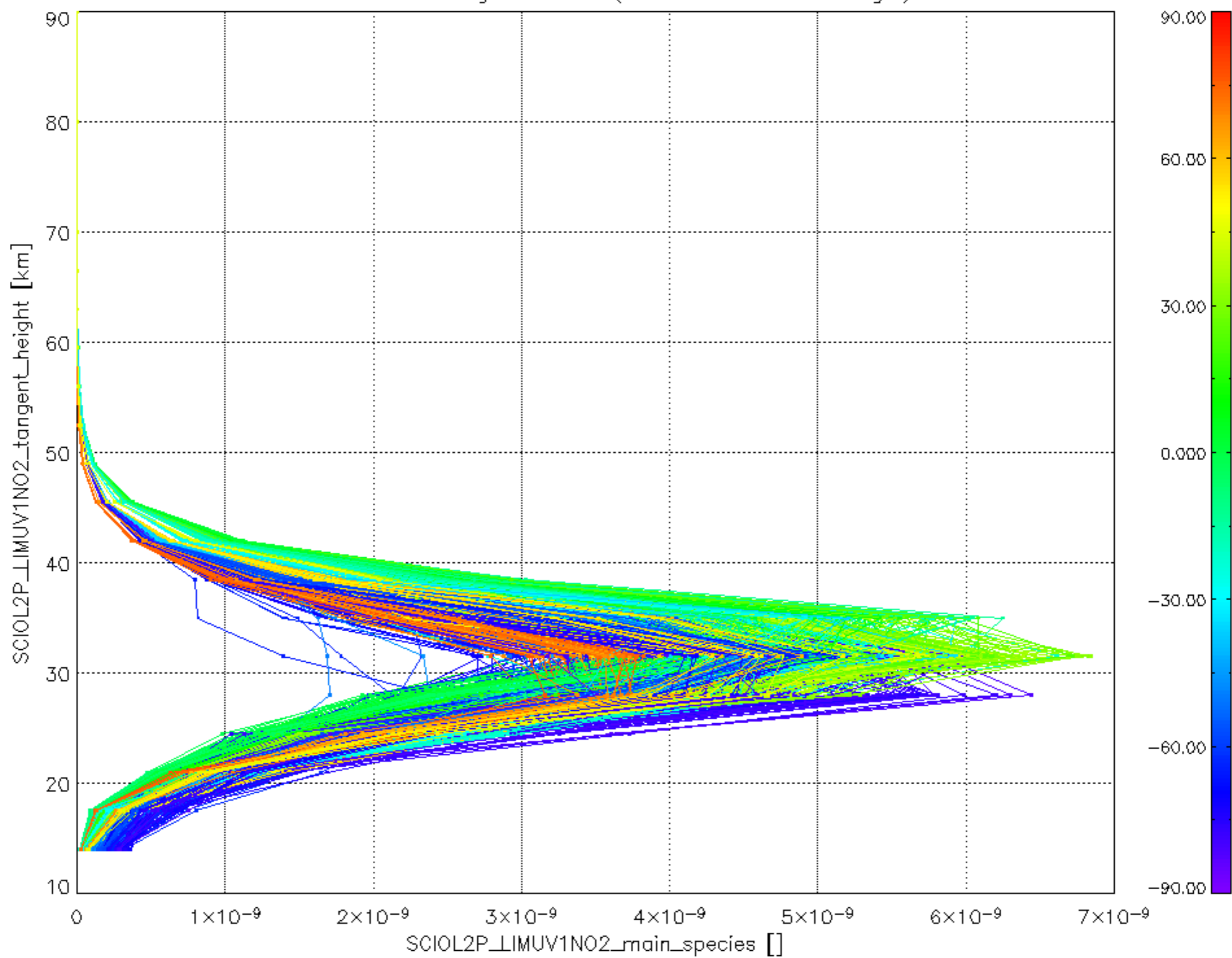
ICIOL2P_NADUV1NO2_amf_cl for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



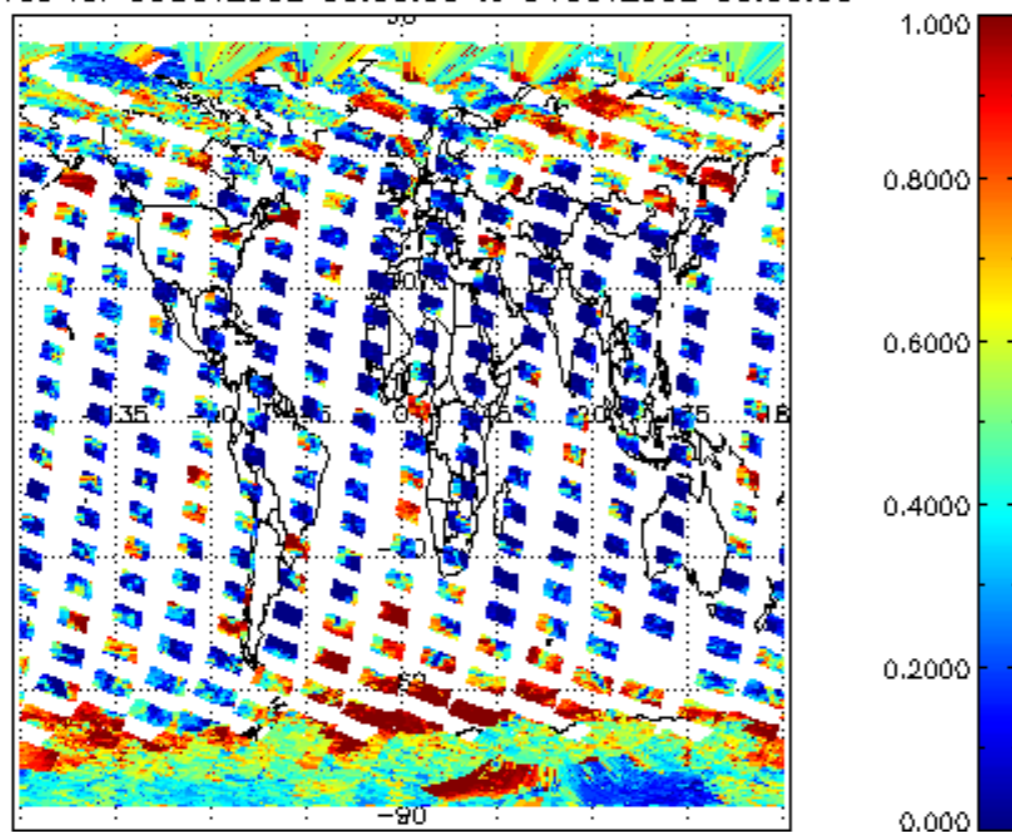
Plot of SCIOL2P_LIMUV003_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



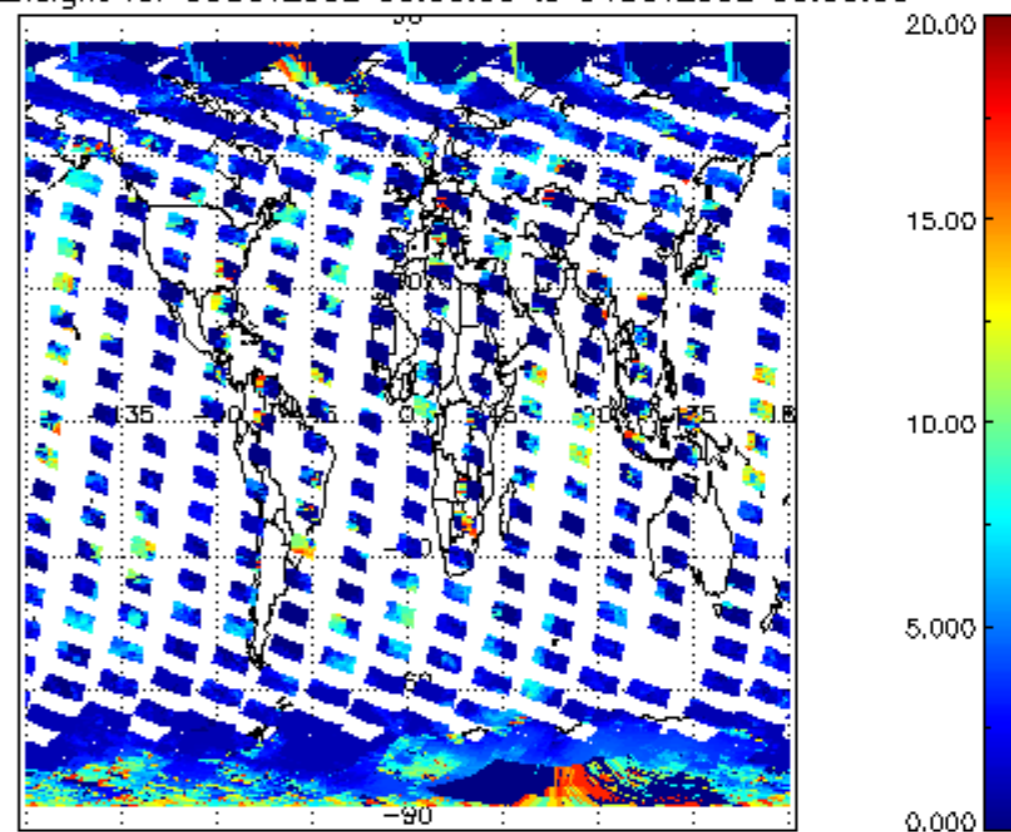
Plot of SCIOL2P_LIMUV1N02_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



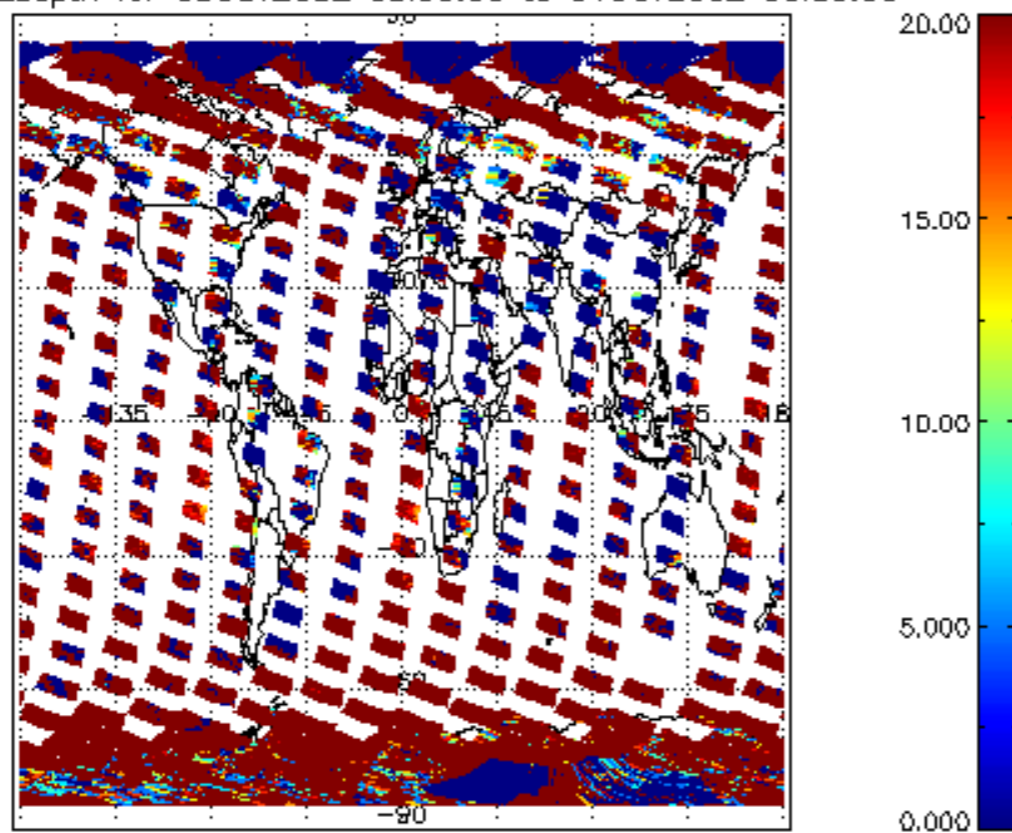
cl_frac for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



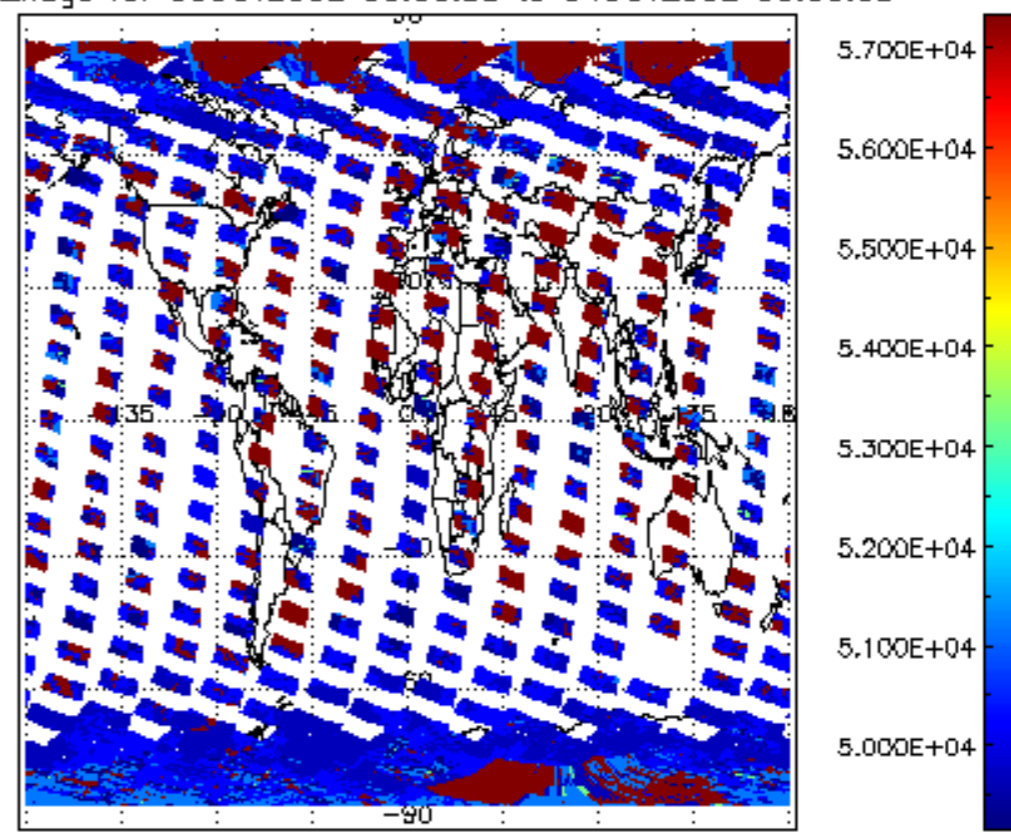
cl_top_height for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

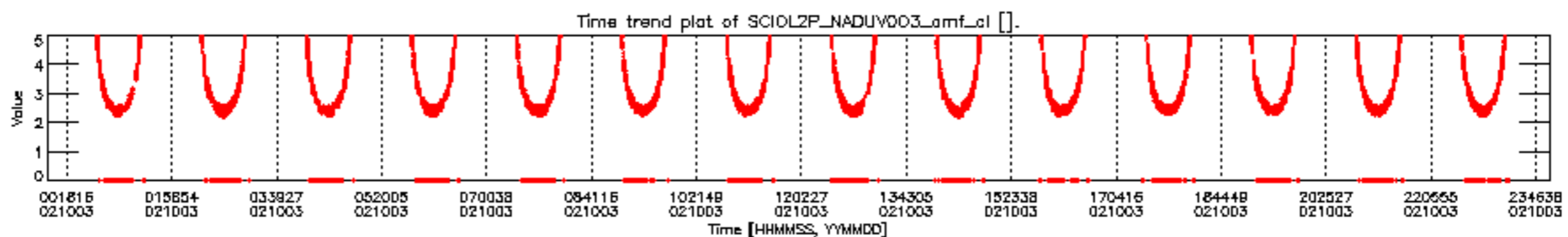
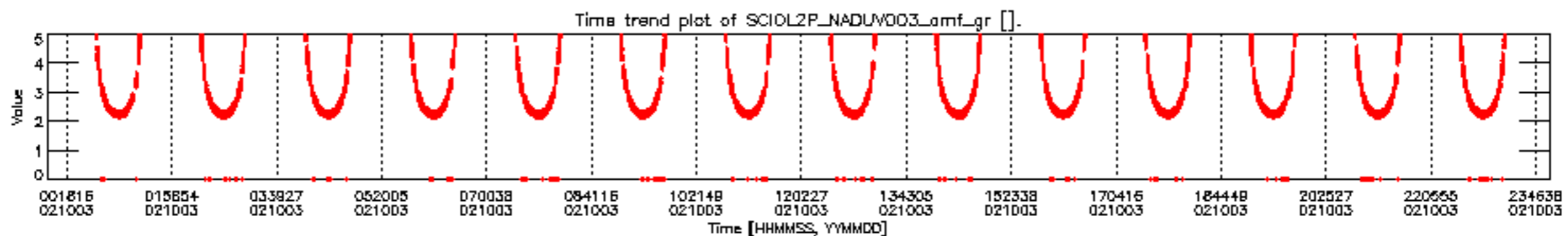
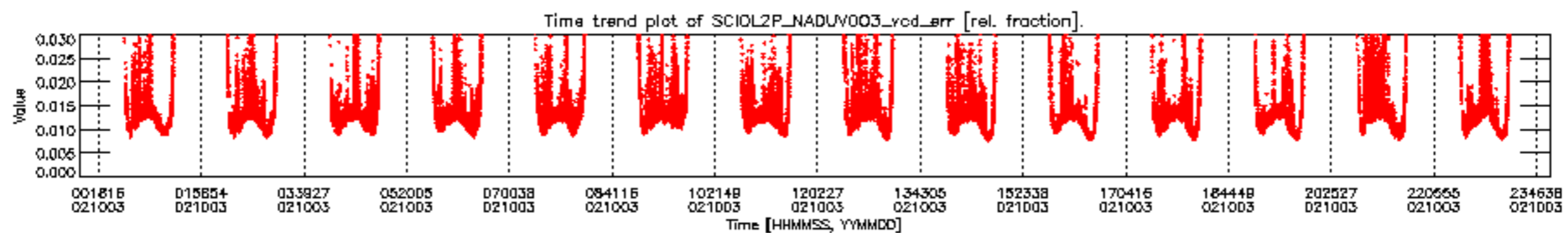
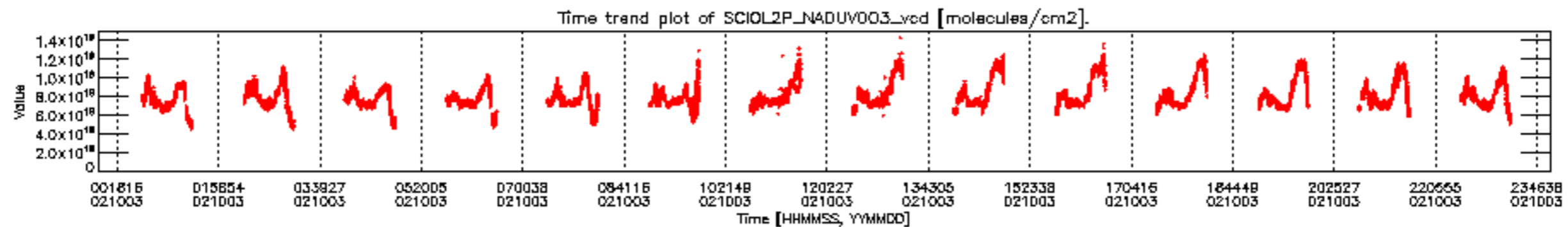


cl_opt_depth for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

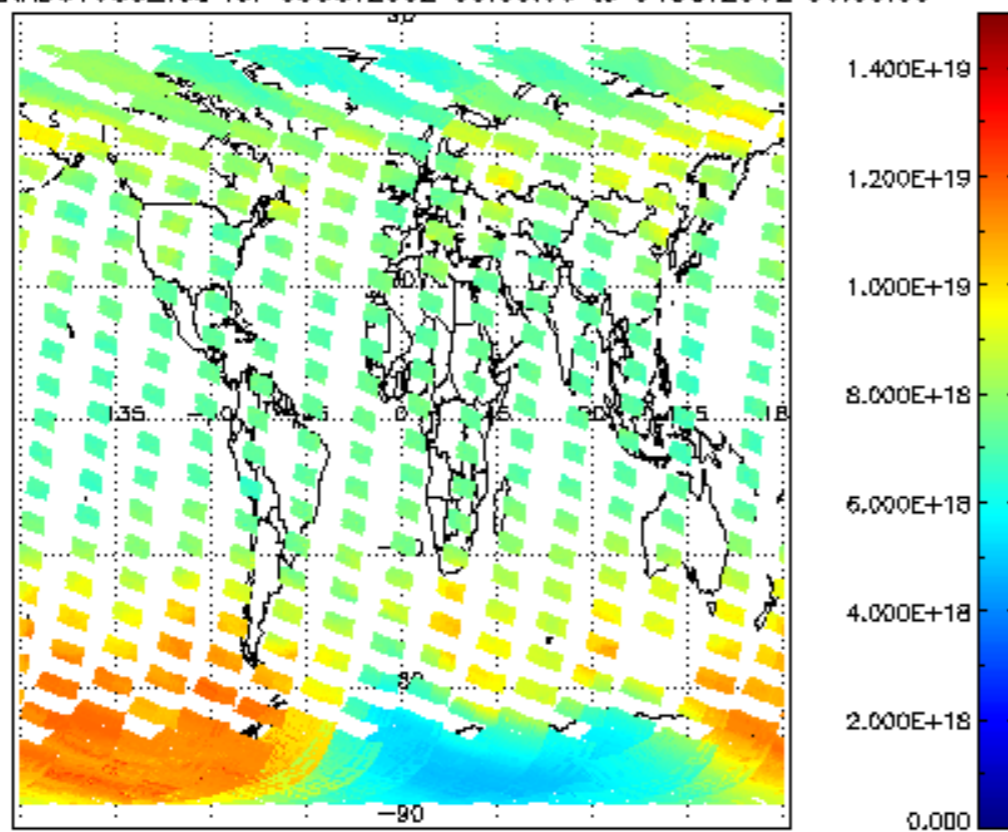


cloud_flags for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

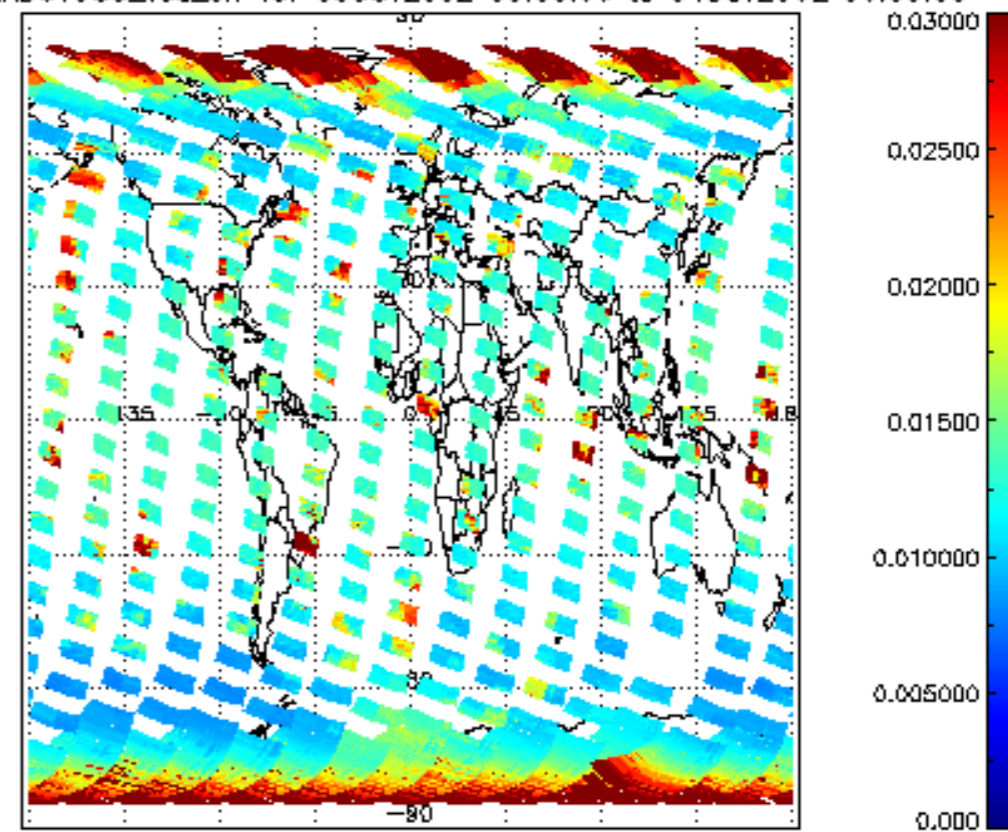




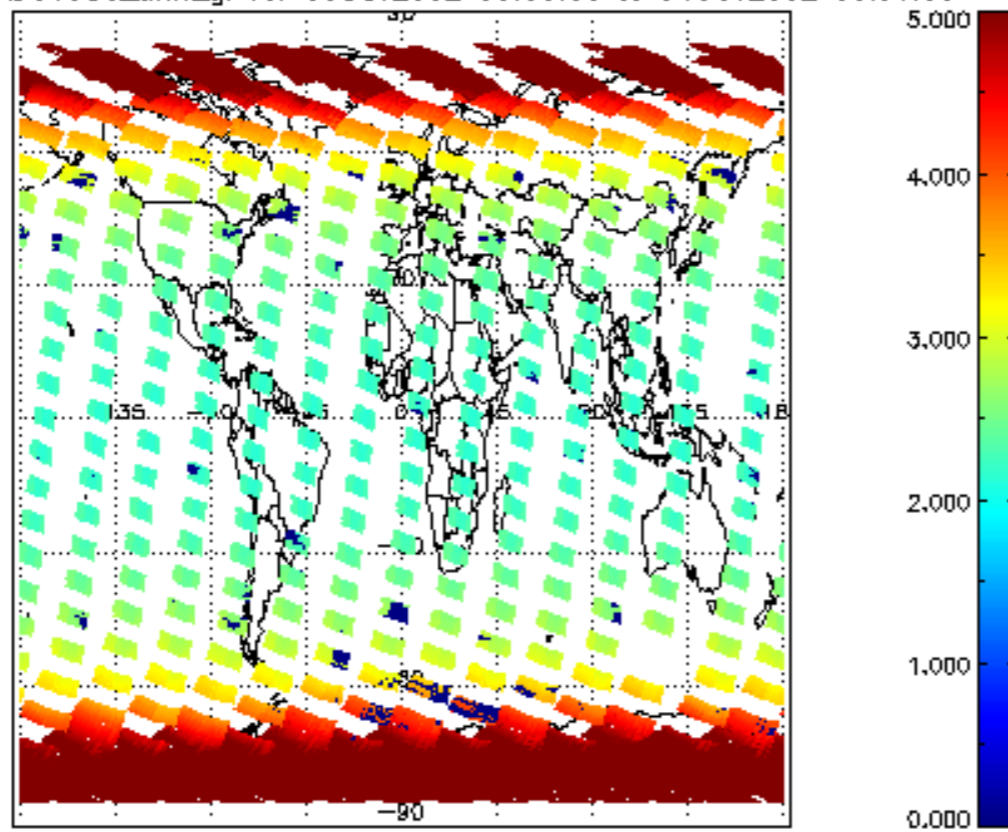
SCIOL2P_NADUV003_vcd for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



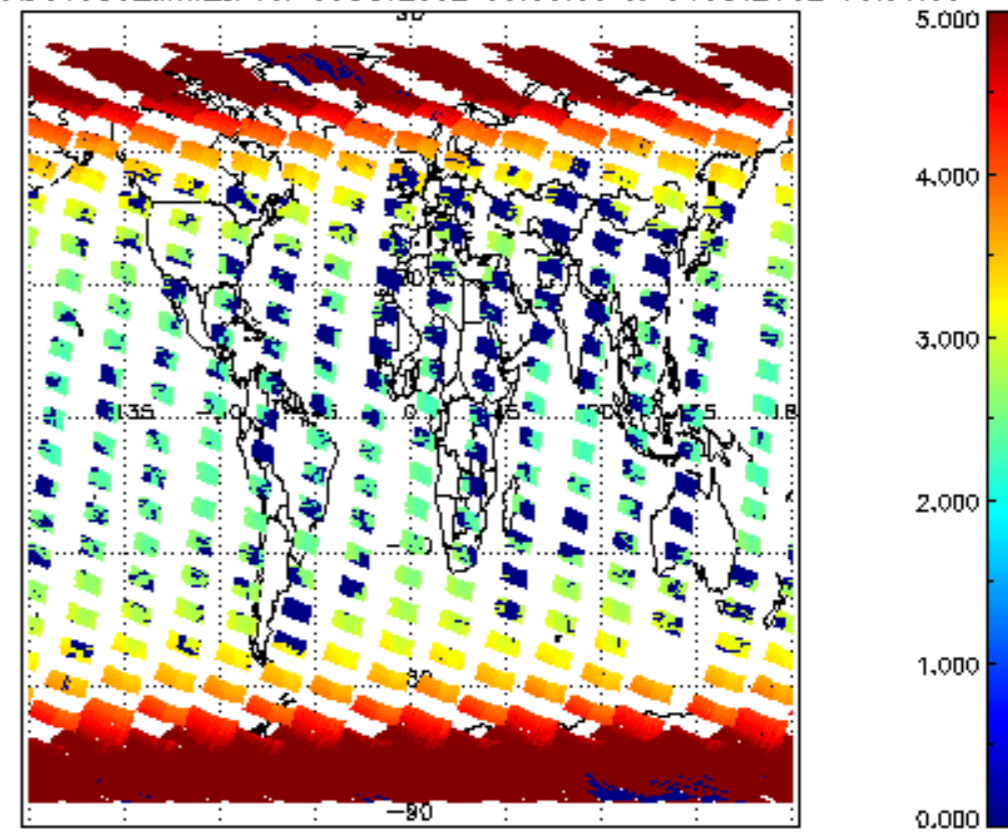
SCIOL2P_NADUV003_vcd_err for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

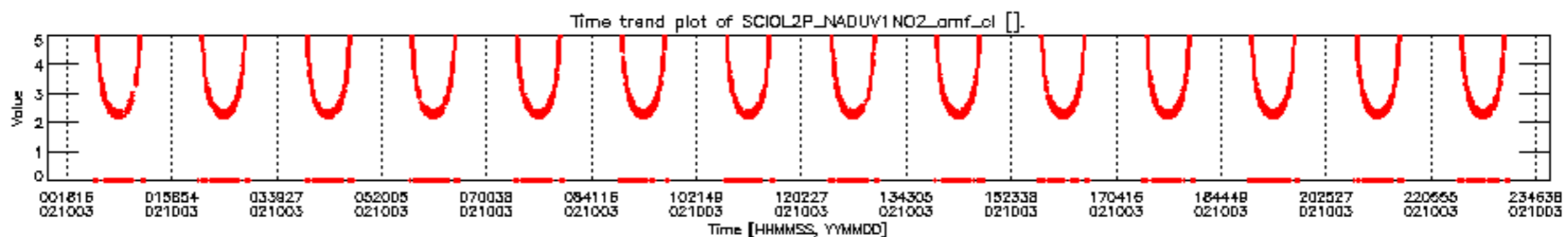
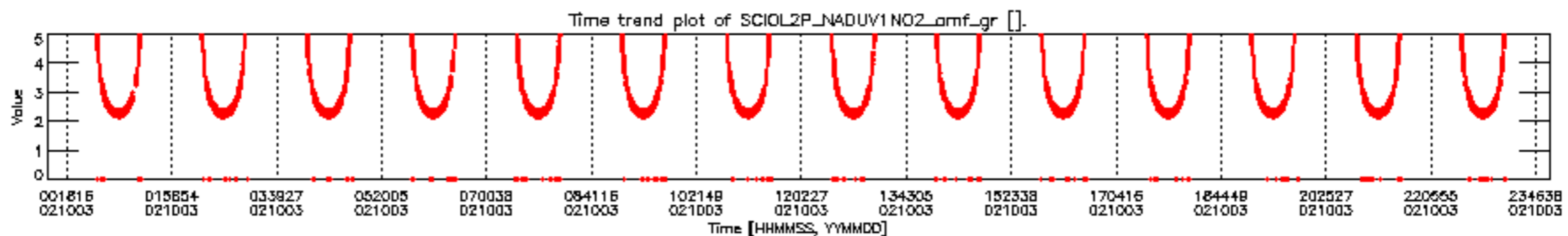
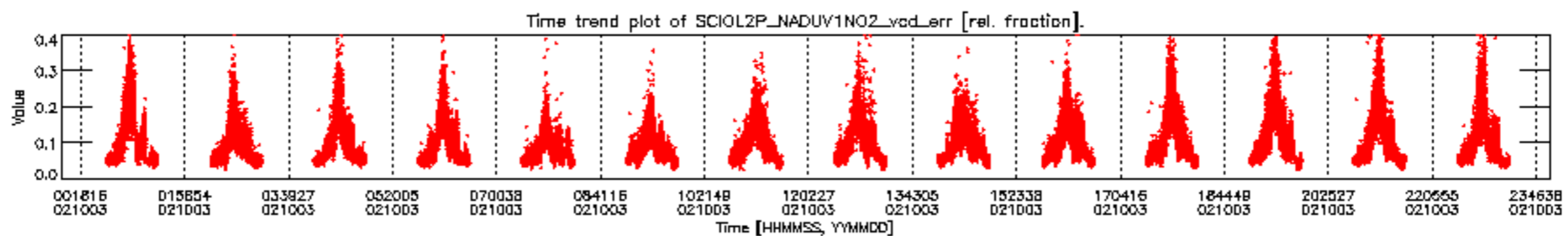
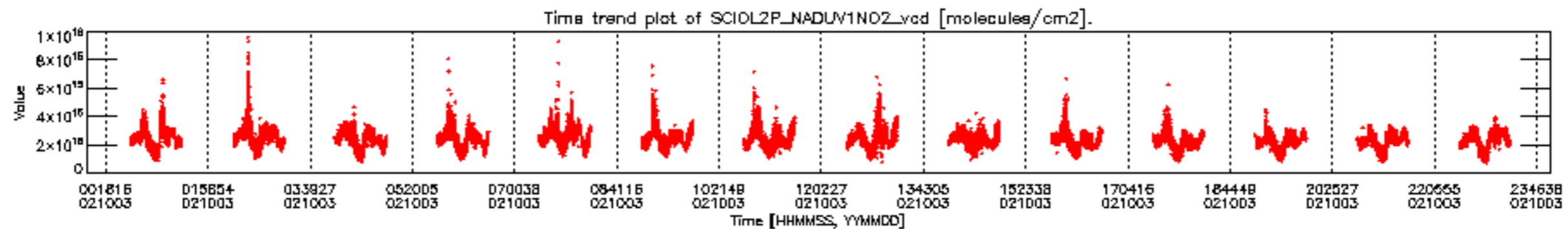


SCIOL2P_NADUV003_amf_gr for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

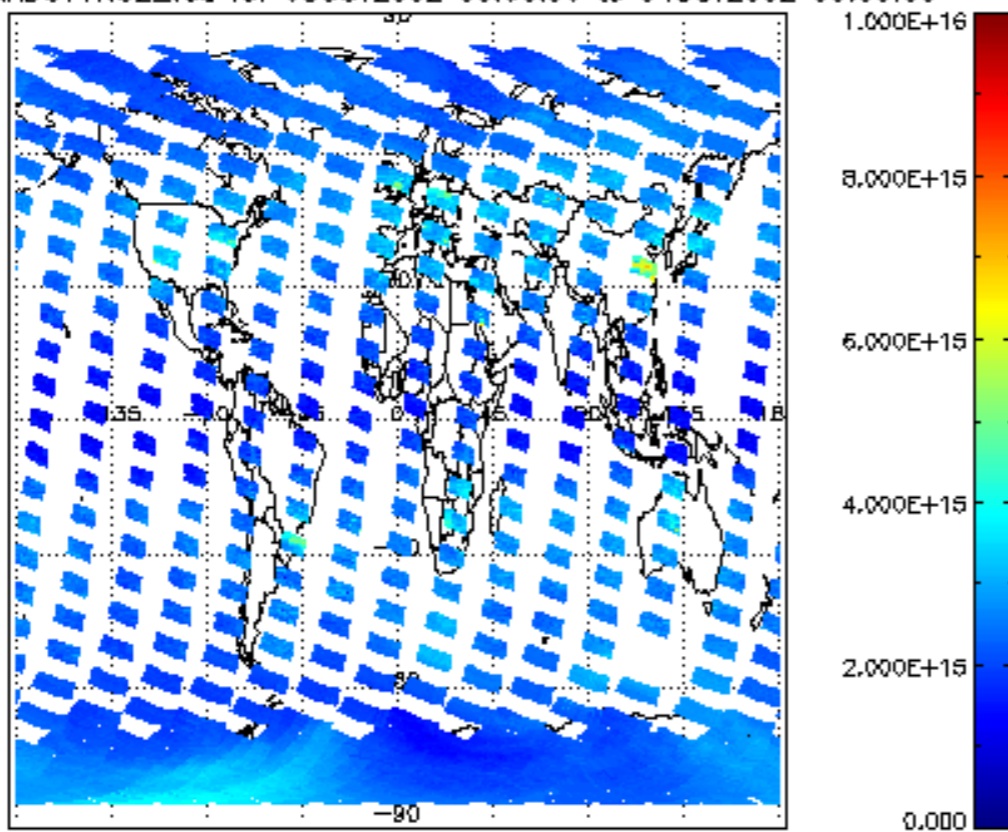


SCIOL2P_NADUV003_amf_cl for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

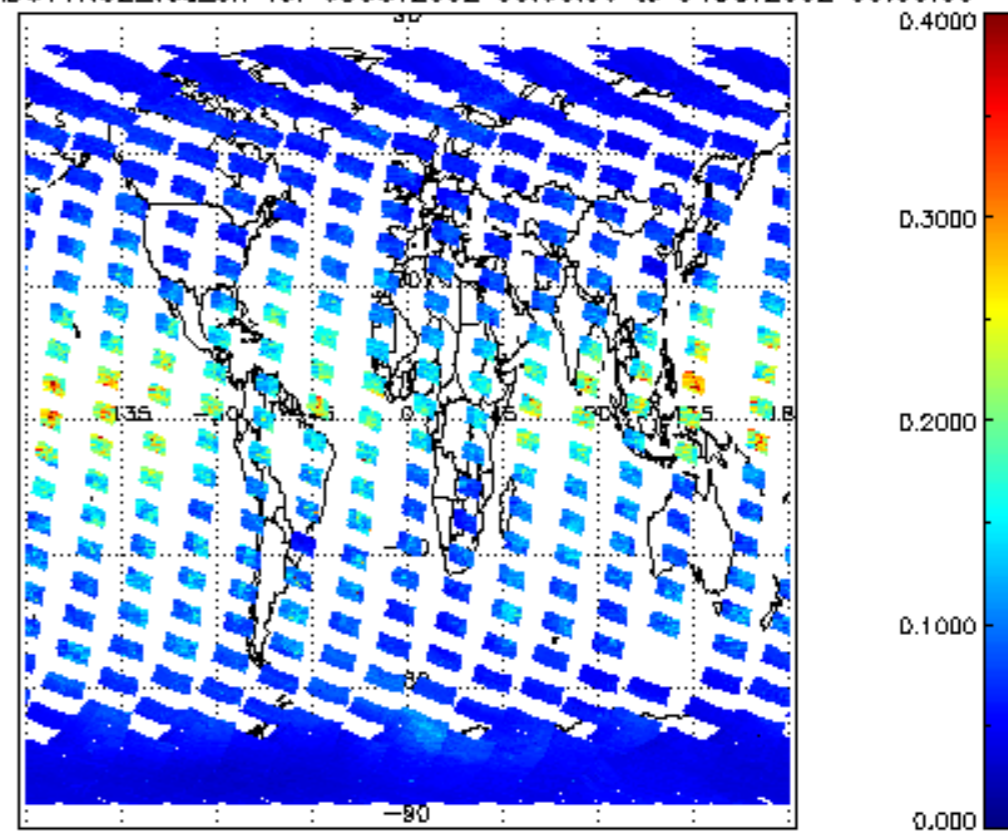




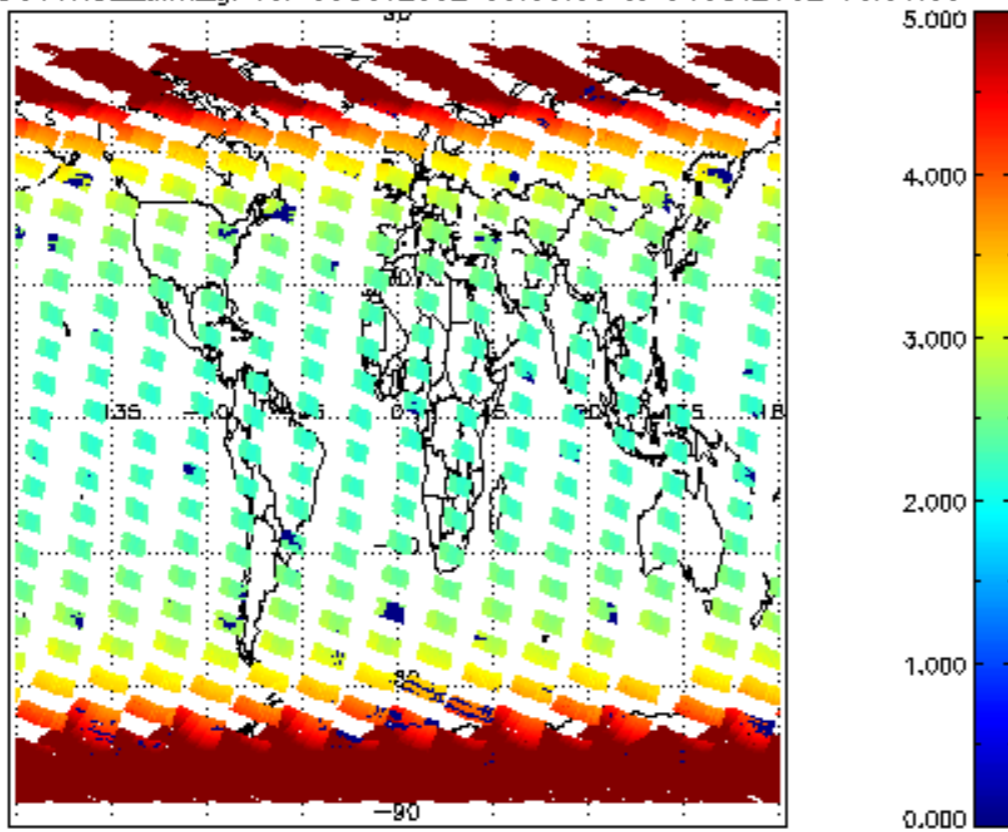
SCIOL2P_NADUV1NO2_vcd for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



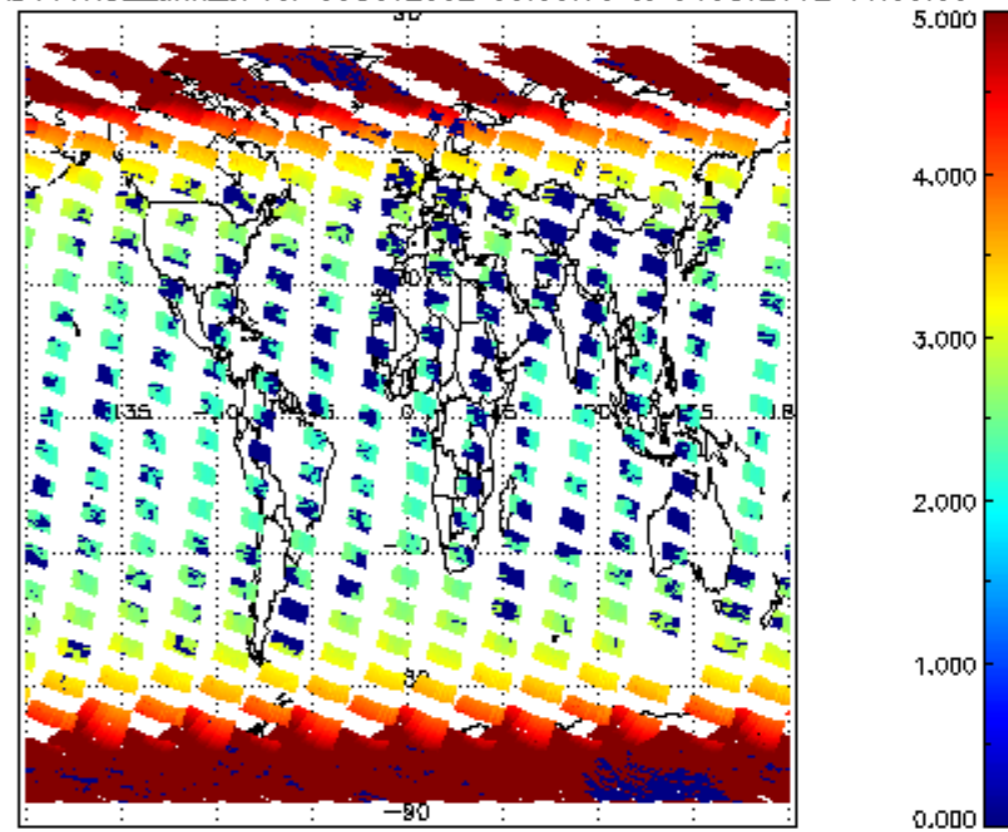
SCIOL2P_NADUV1NO2_vcd_err for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

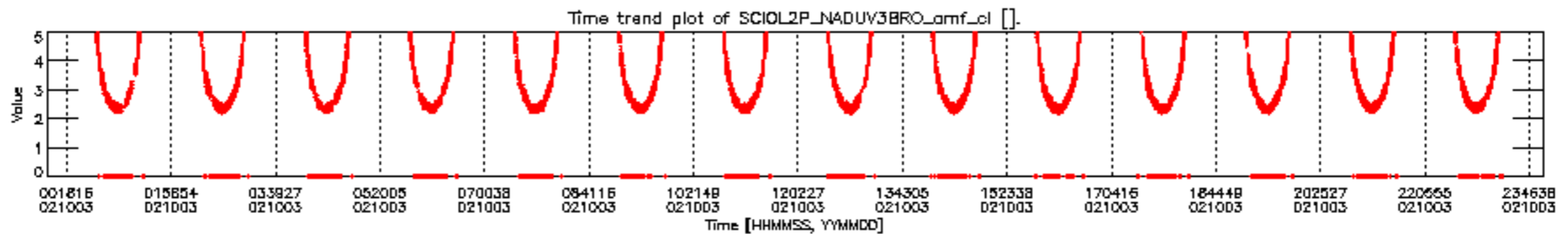
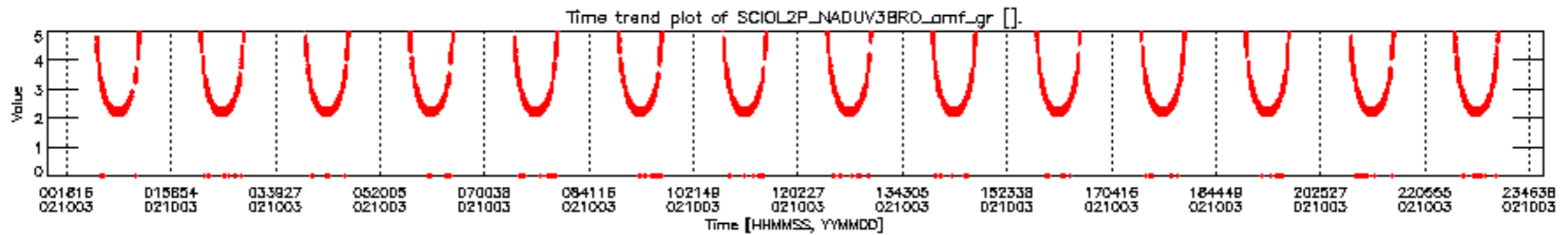
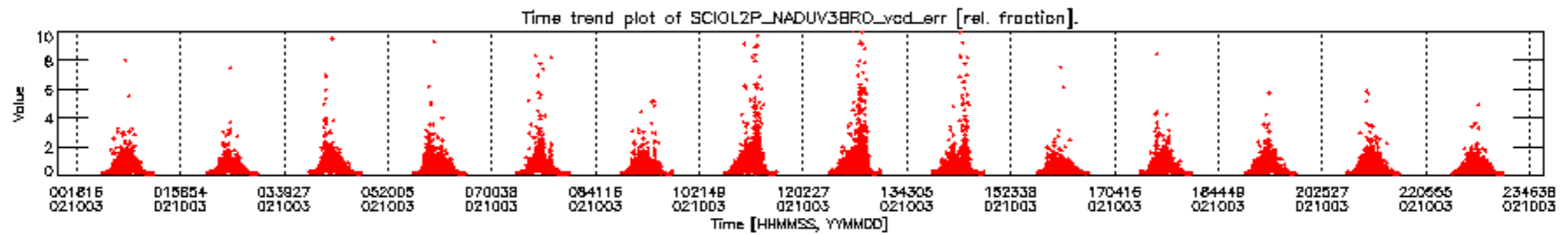
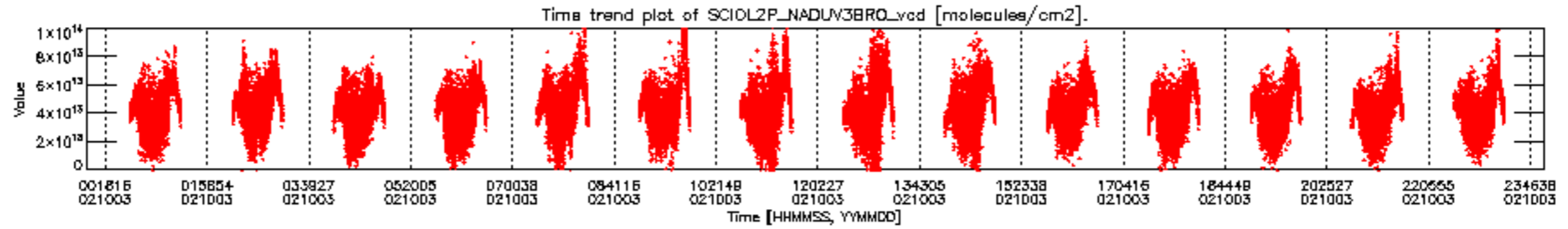


SCIOL2P_NADUV1NO2_amf_gr for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

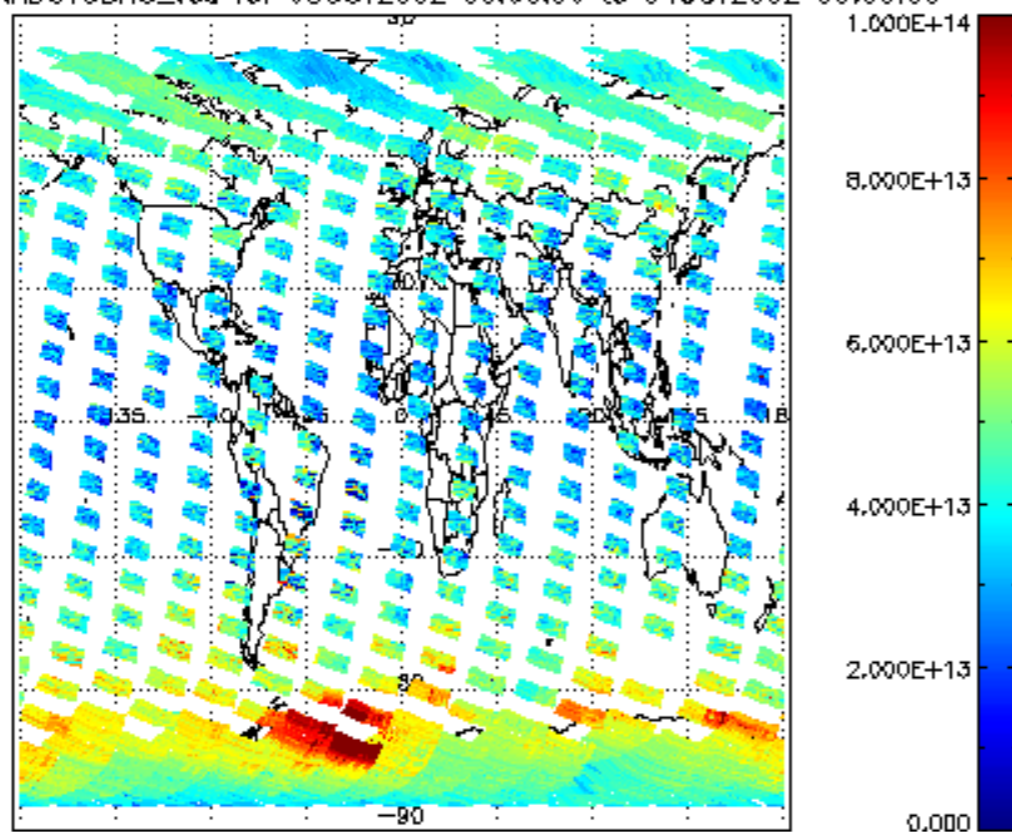


SCIOL2P_NADUV1NO2_amf_cl for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

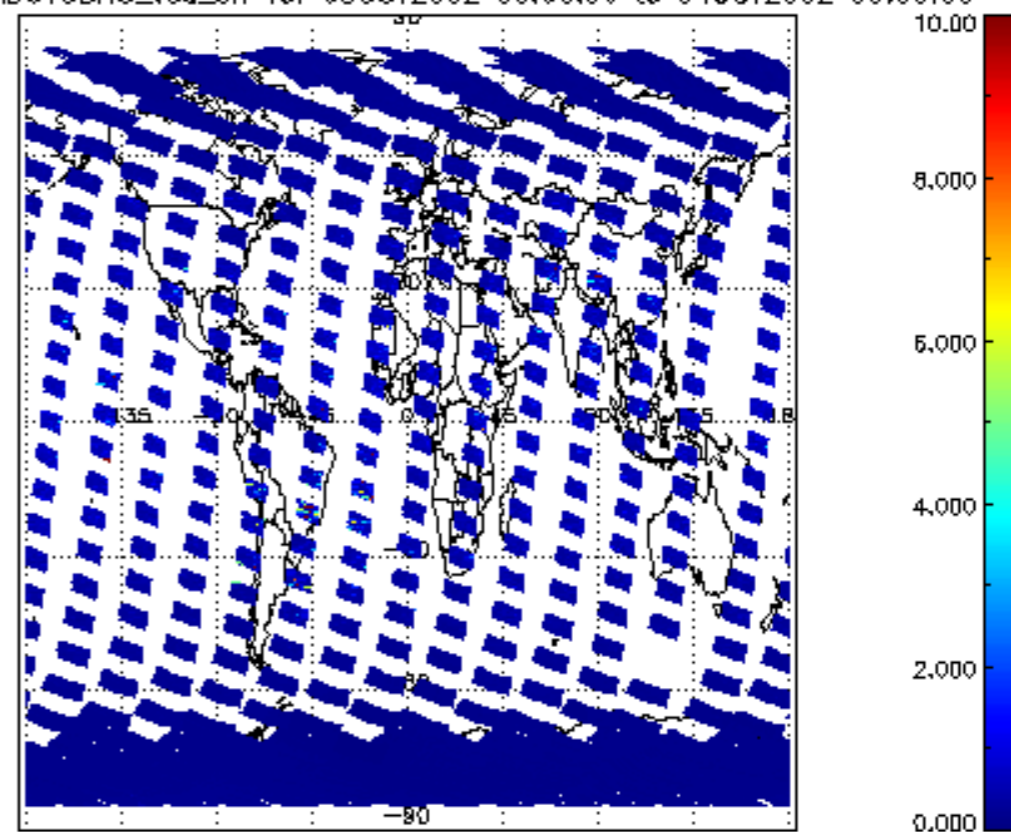




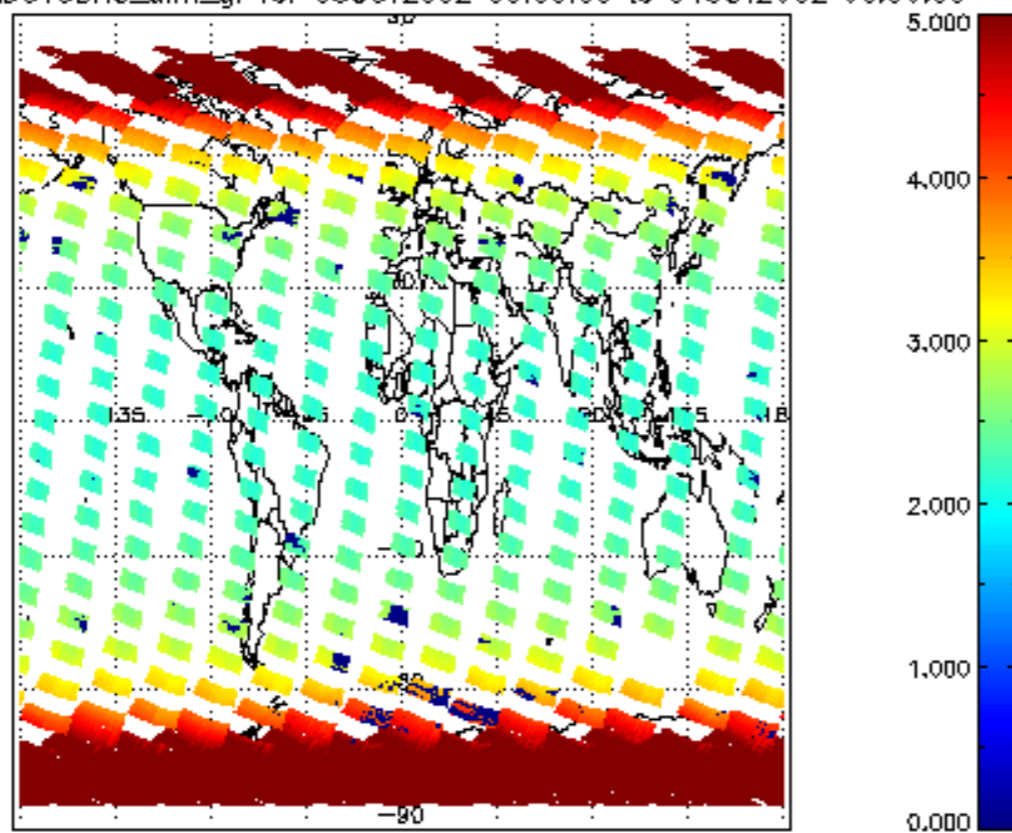
SCIOL2P_NADUV3BRO_vcd for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



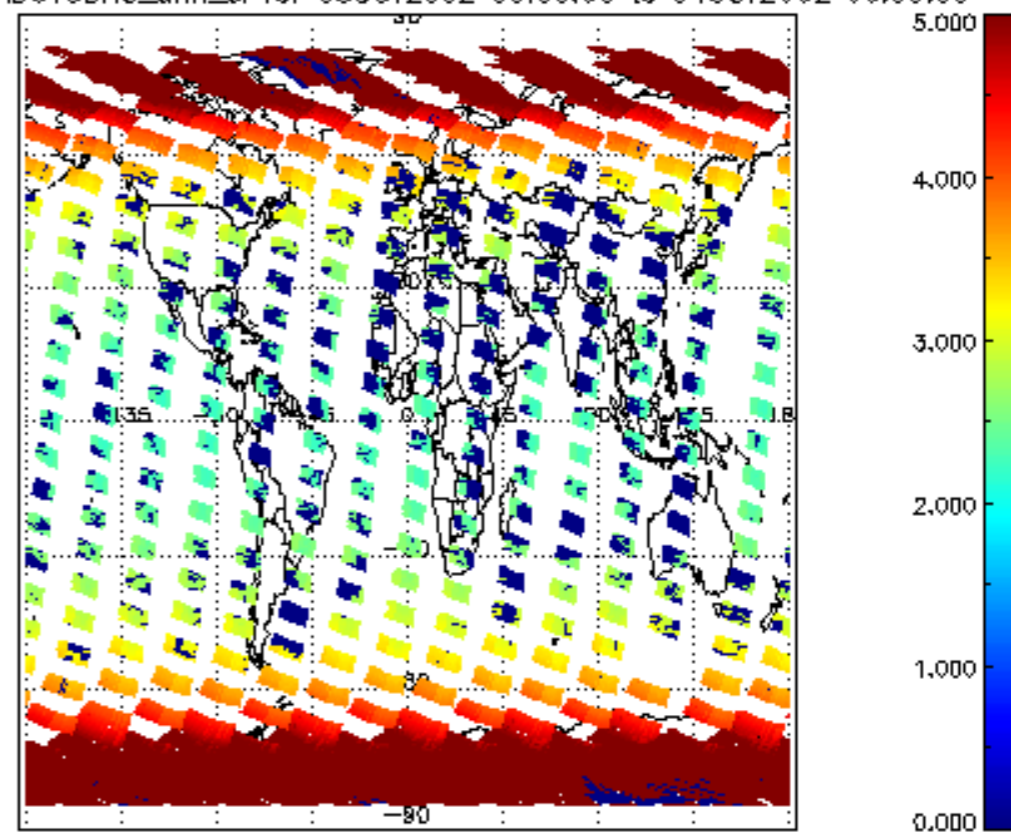
SCIOL2P_NADUV3BRO_vcd_err for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

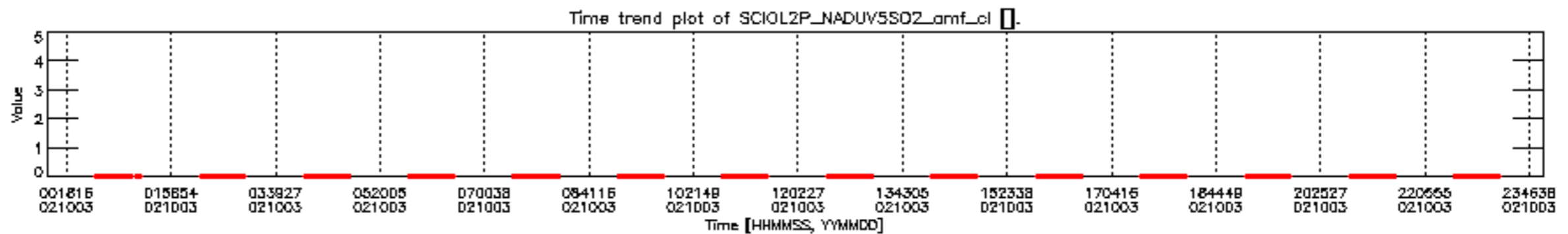
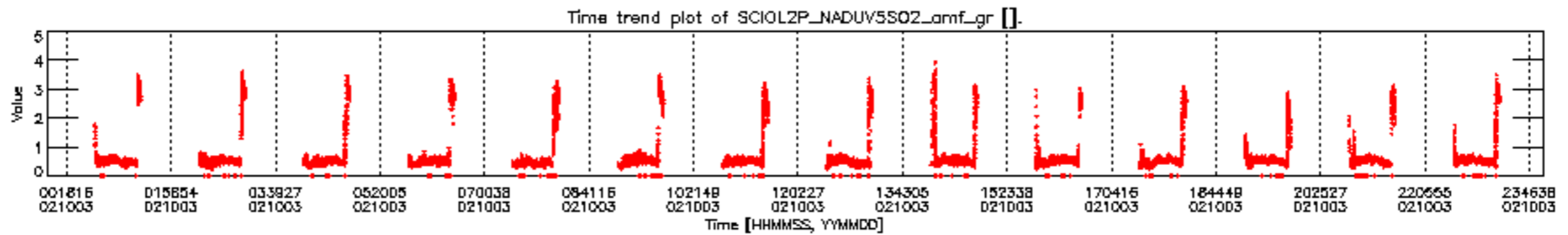
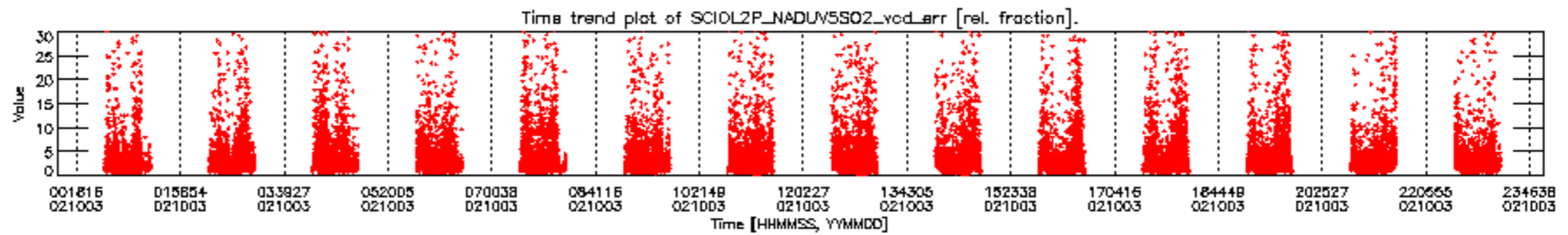
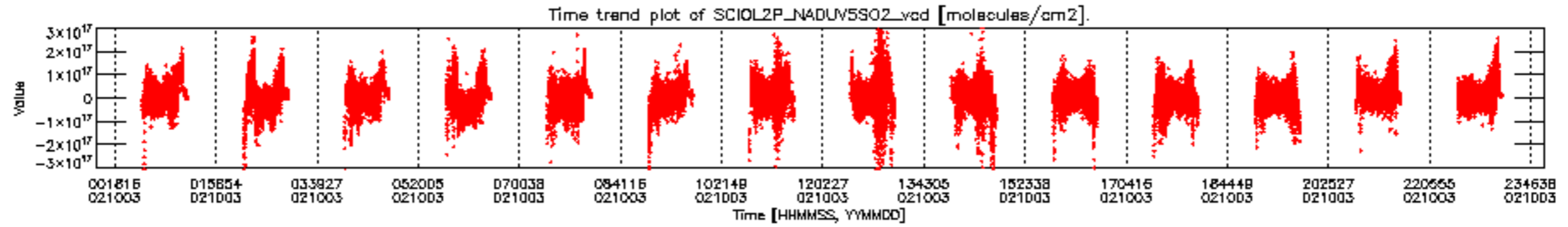


SCIOL2P_NADUV3BRO_amf_gr for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

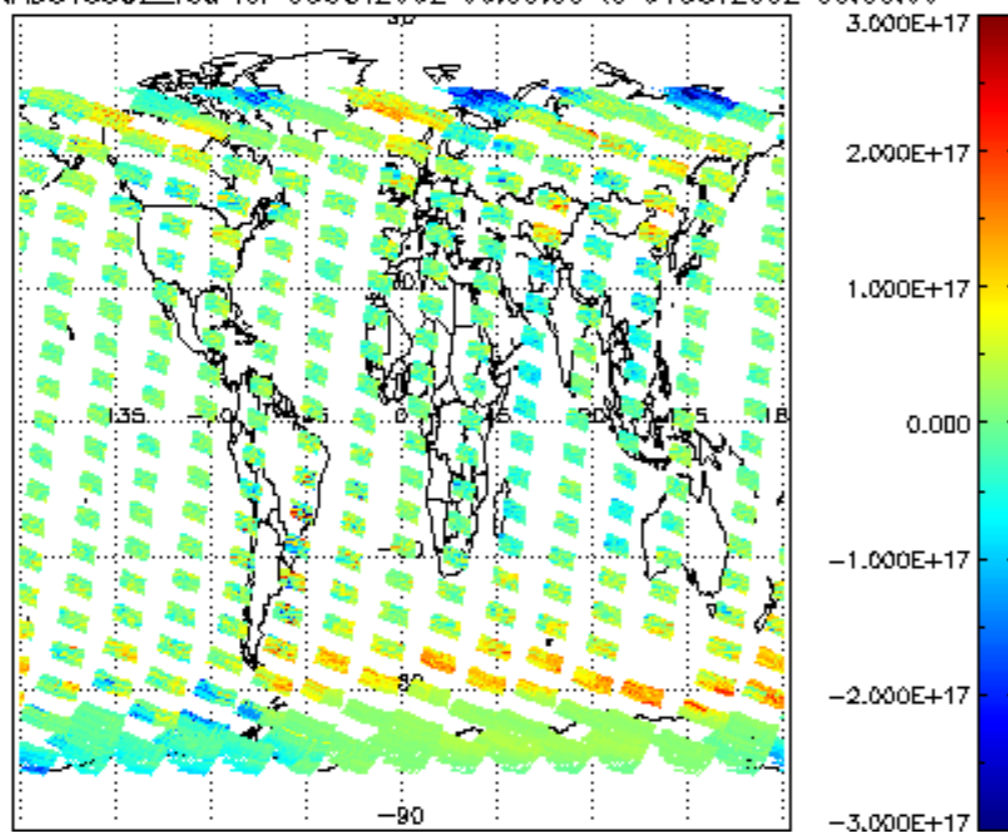


SCIOL2P_NADUV3BRO_amf_cl for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

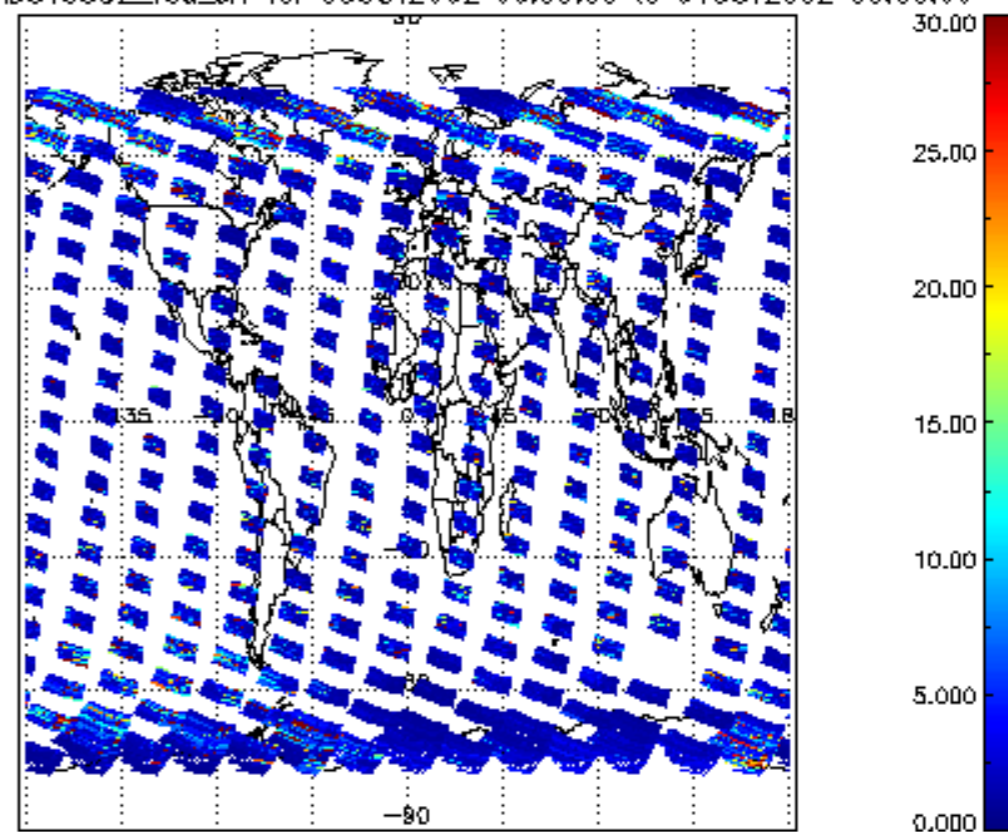




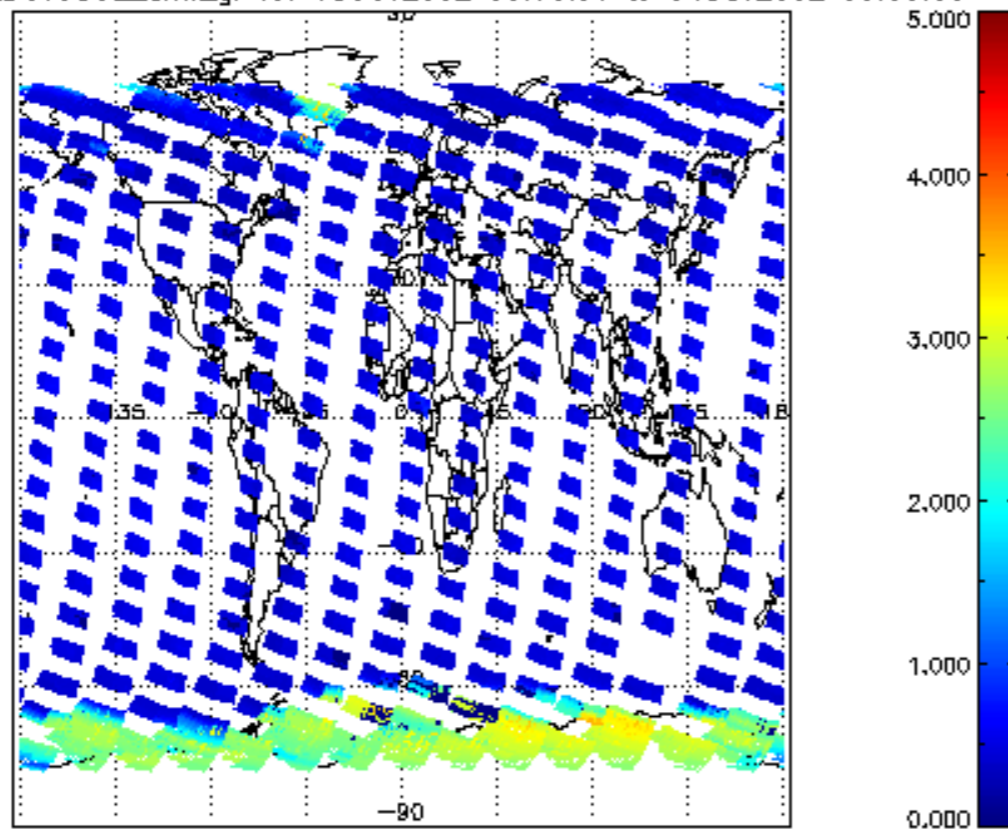
SCIOL2P_NADUV5S02_vcd for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



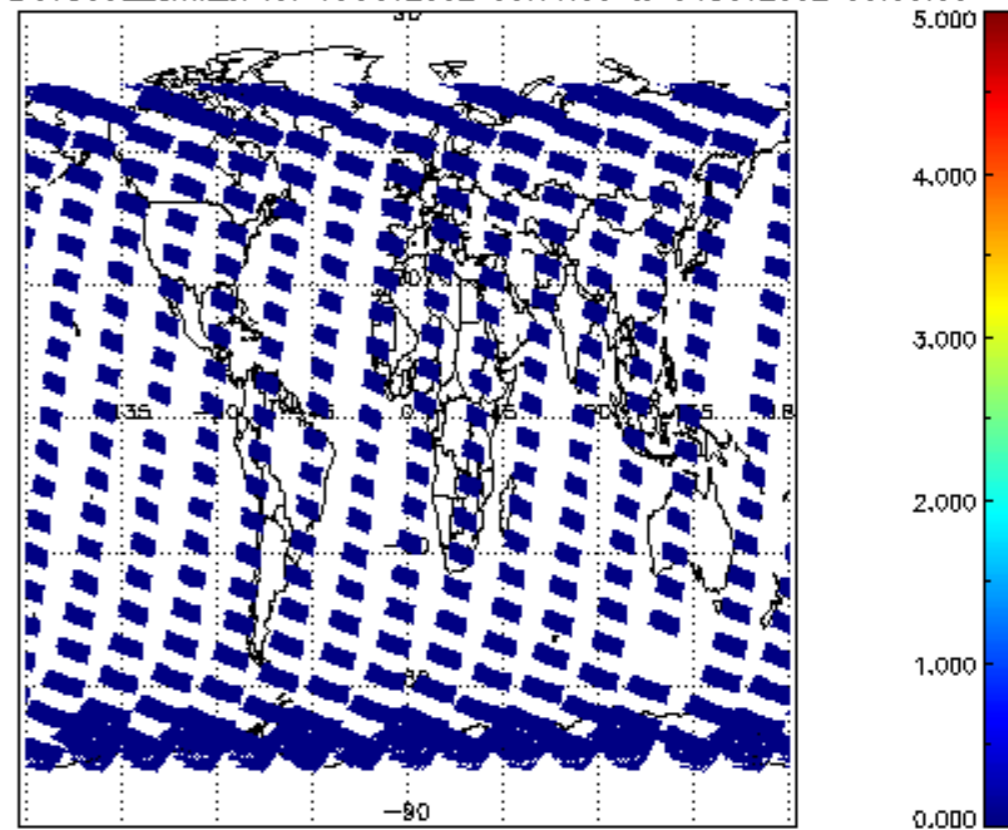
SCIOL2P_NADUV5S02_vcd_err for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

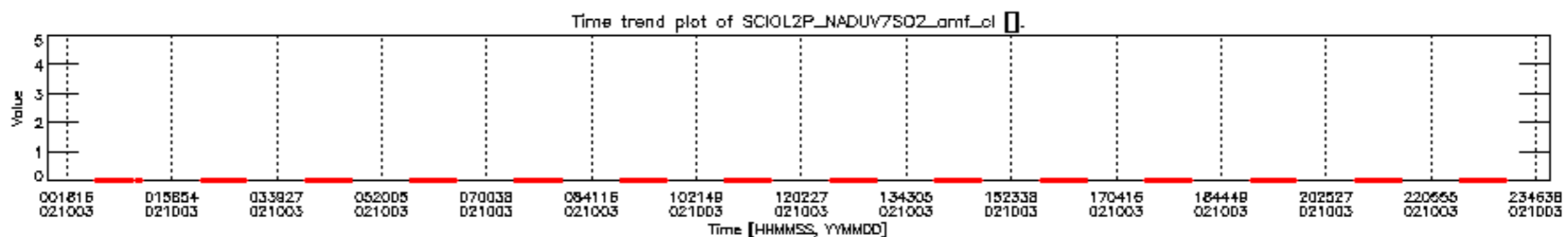
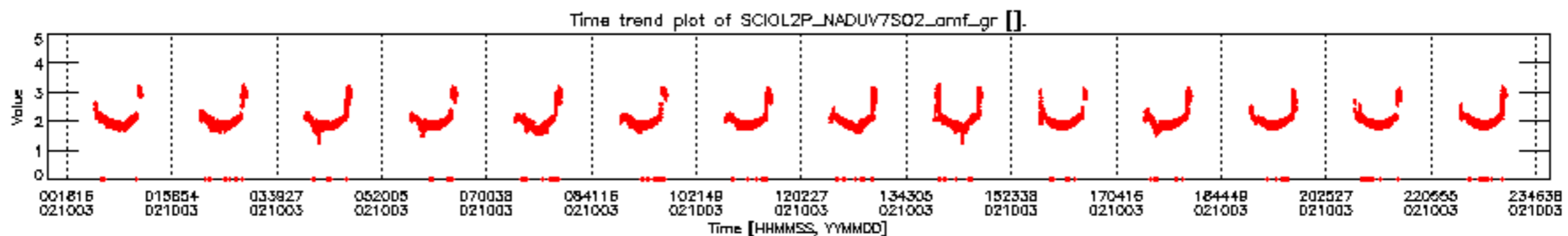
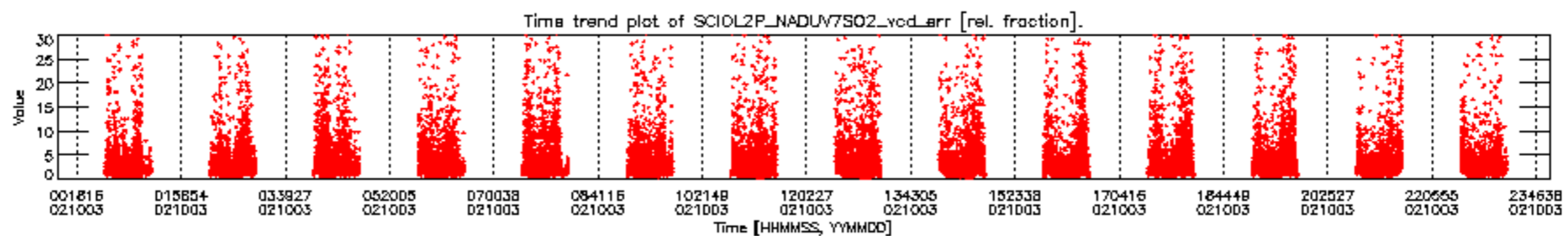
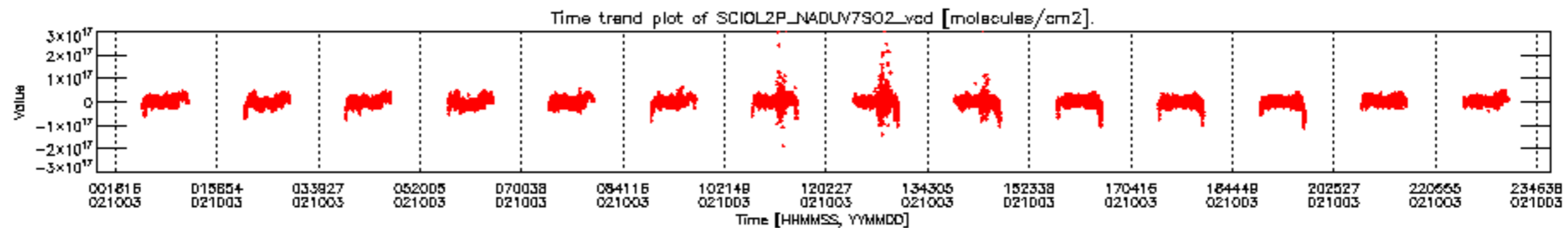


SCIOL2P_NADUV5S02_amf_gr for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

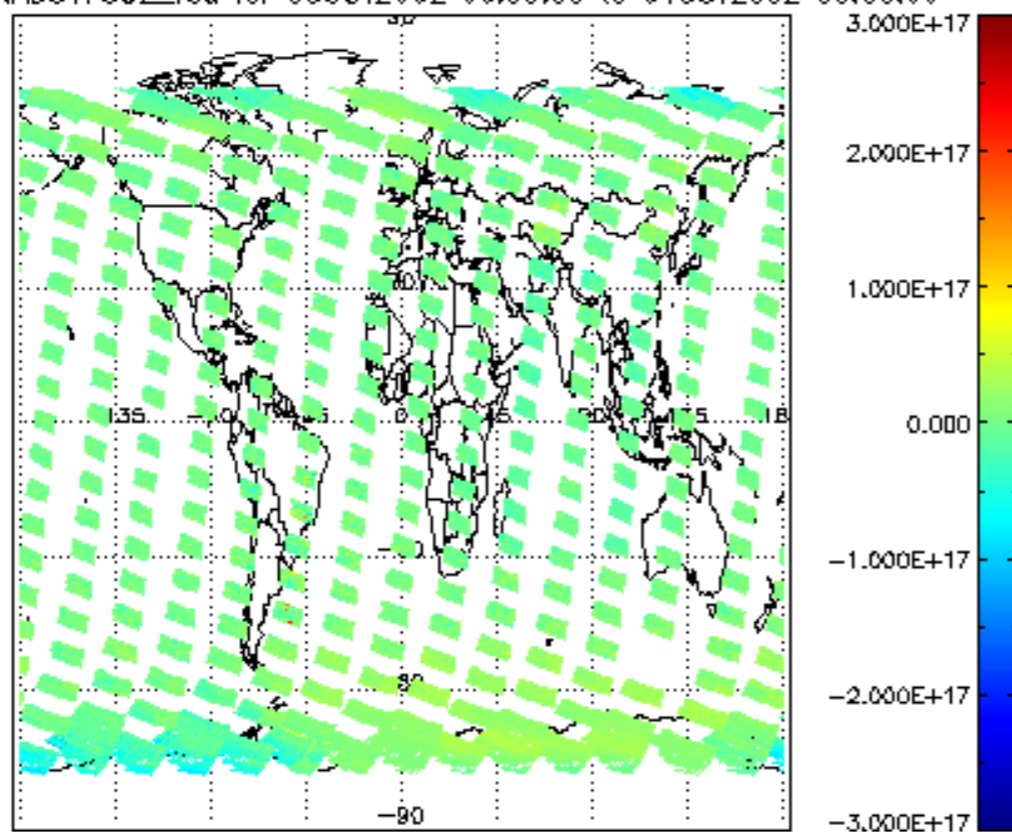


SCIOL2P_NADUV5S02_amf_cl for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

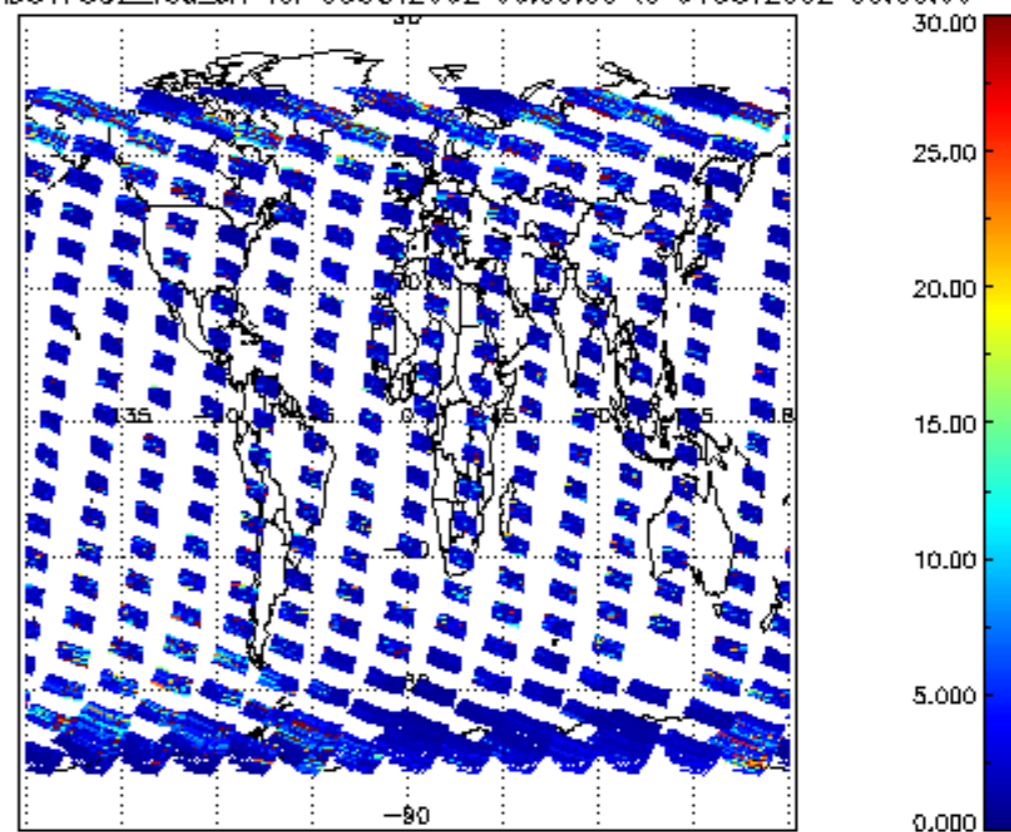




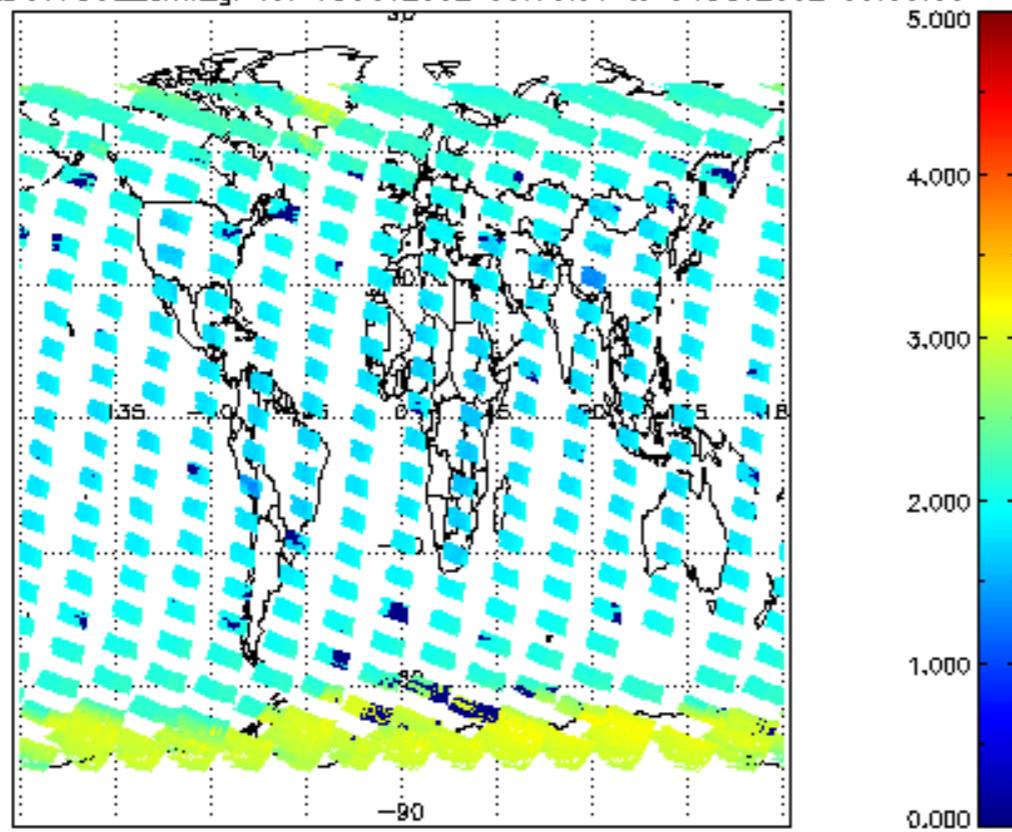
SCIOL2P_NADUV7S02_vcd for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



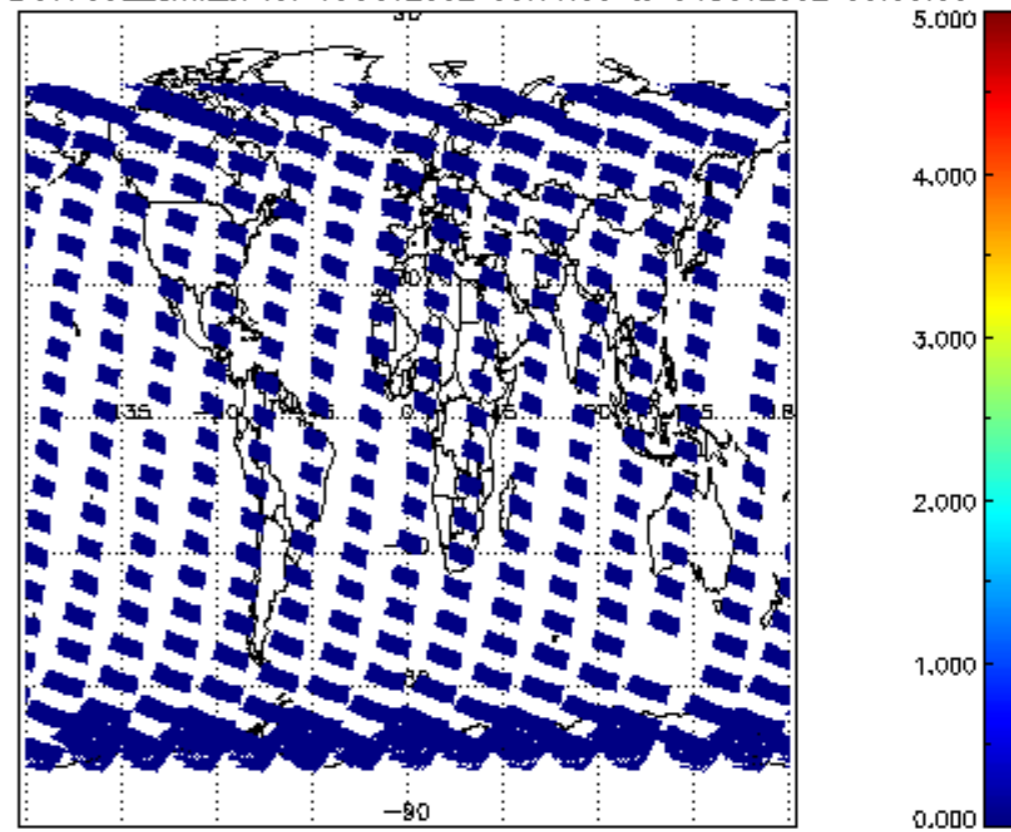
SCIOL2P_NADUV7S02_vcd_err for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

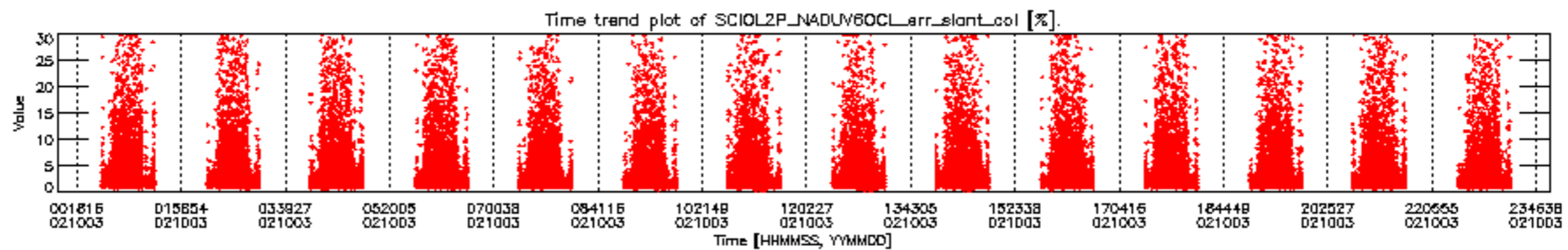
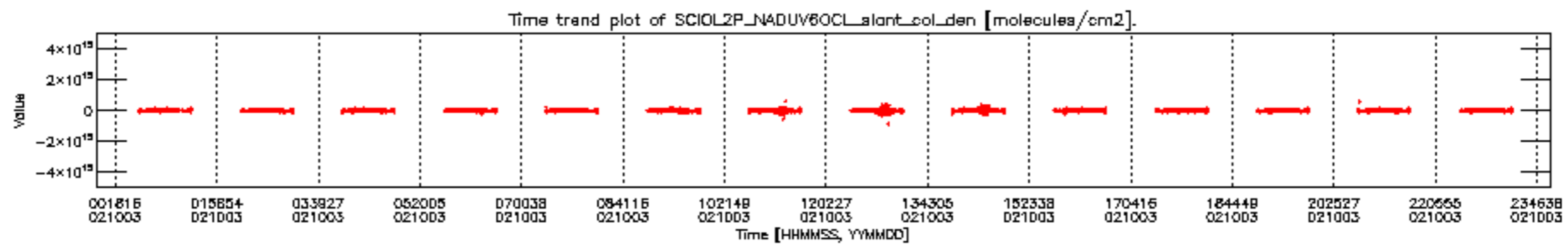


SCIOL2P_NADUV7S02_amf_gr for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

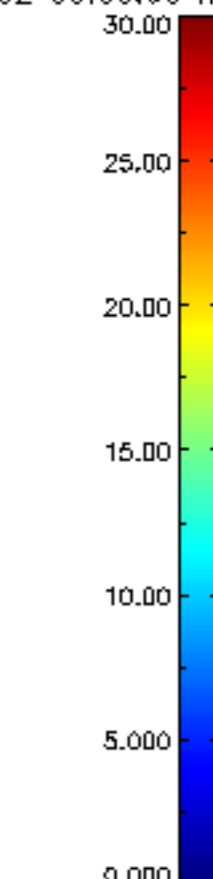
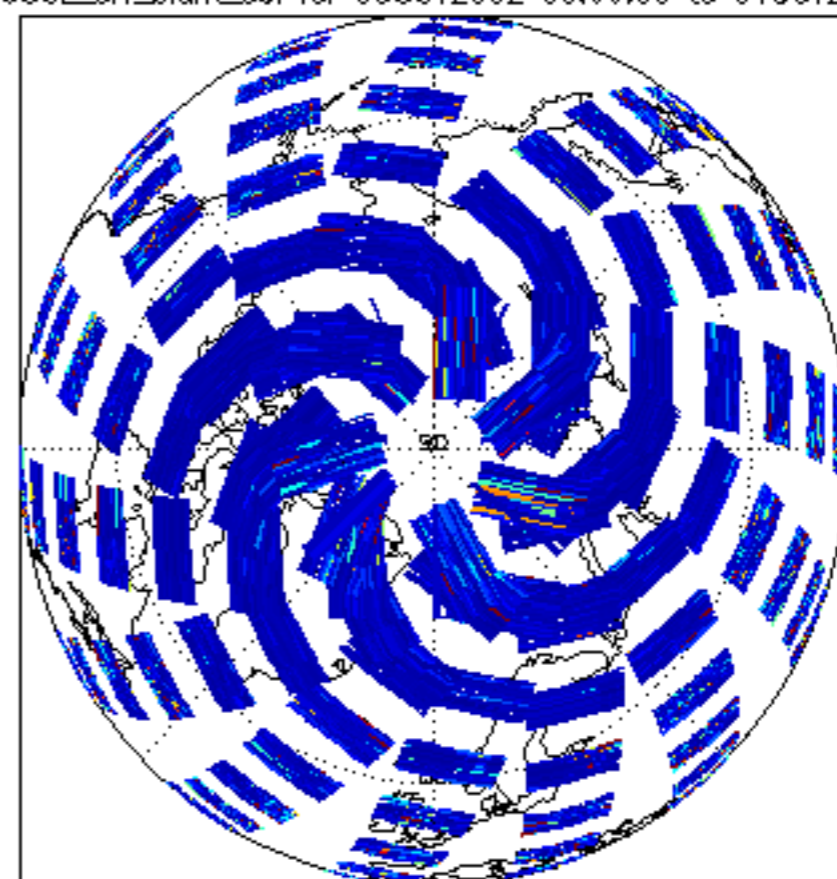
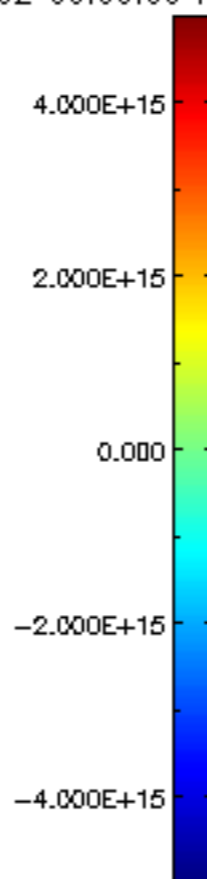
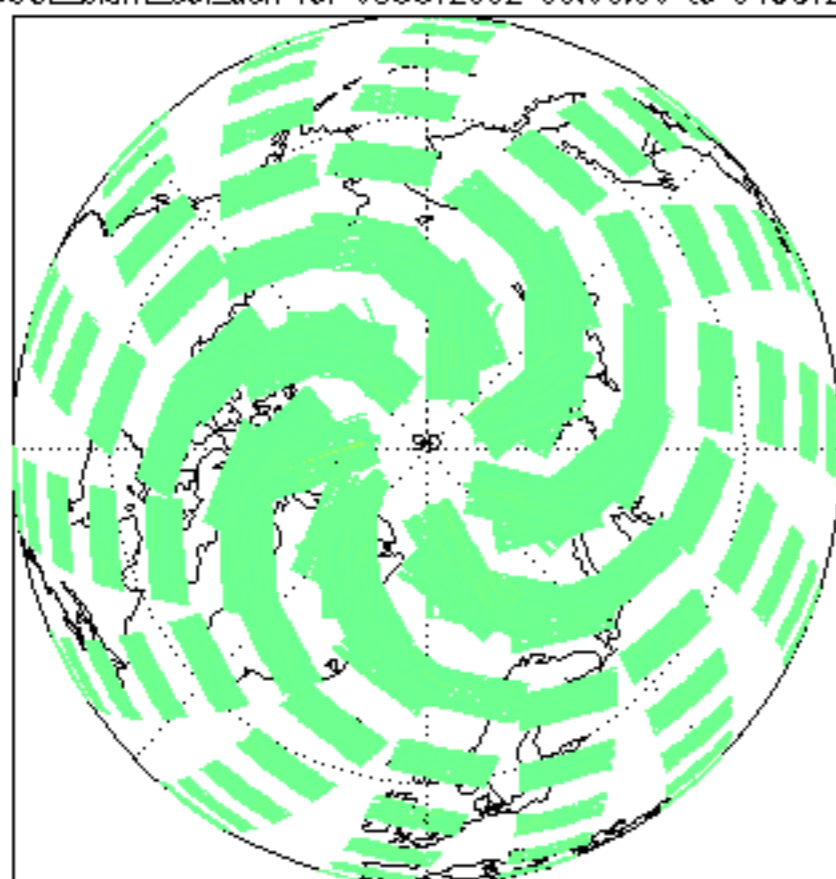


SCIOL2P_NADUV7S02_amf_cl for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

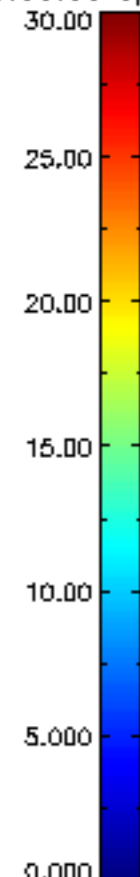
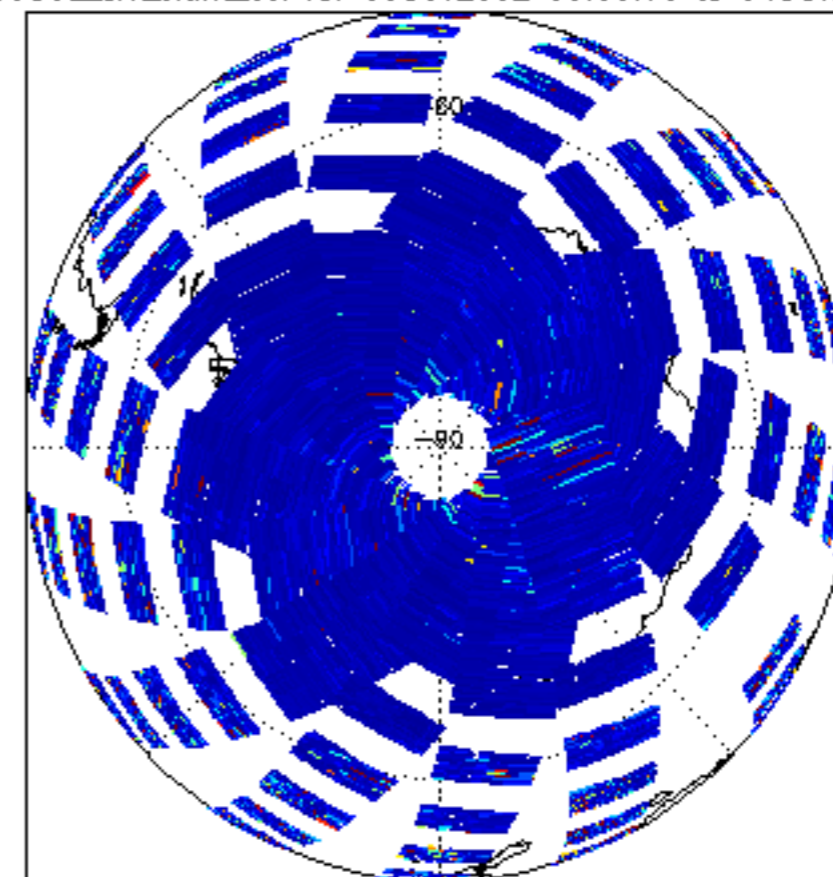
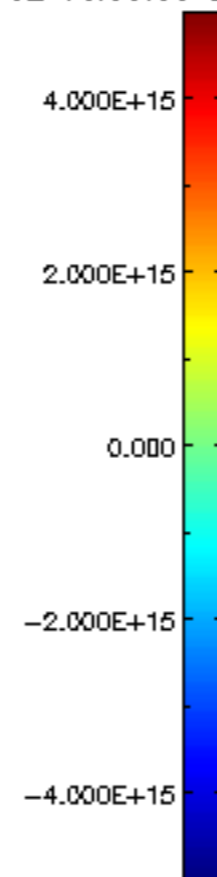
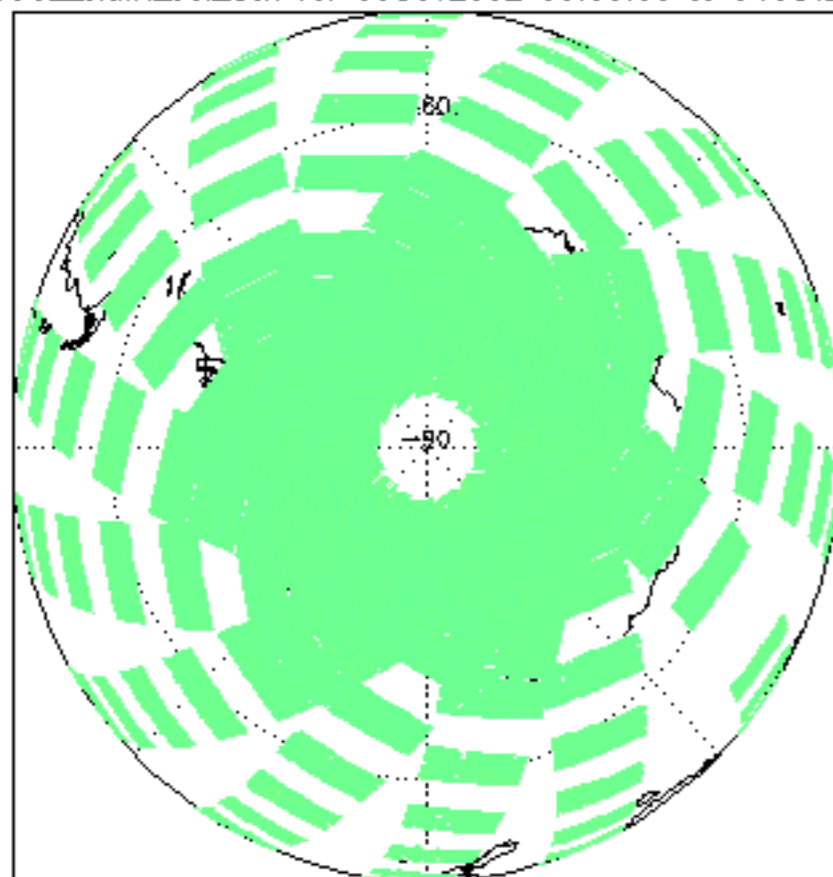




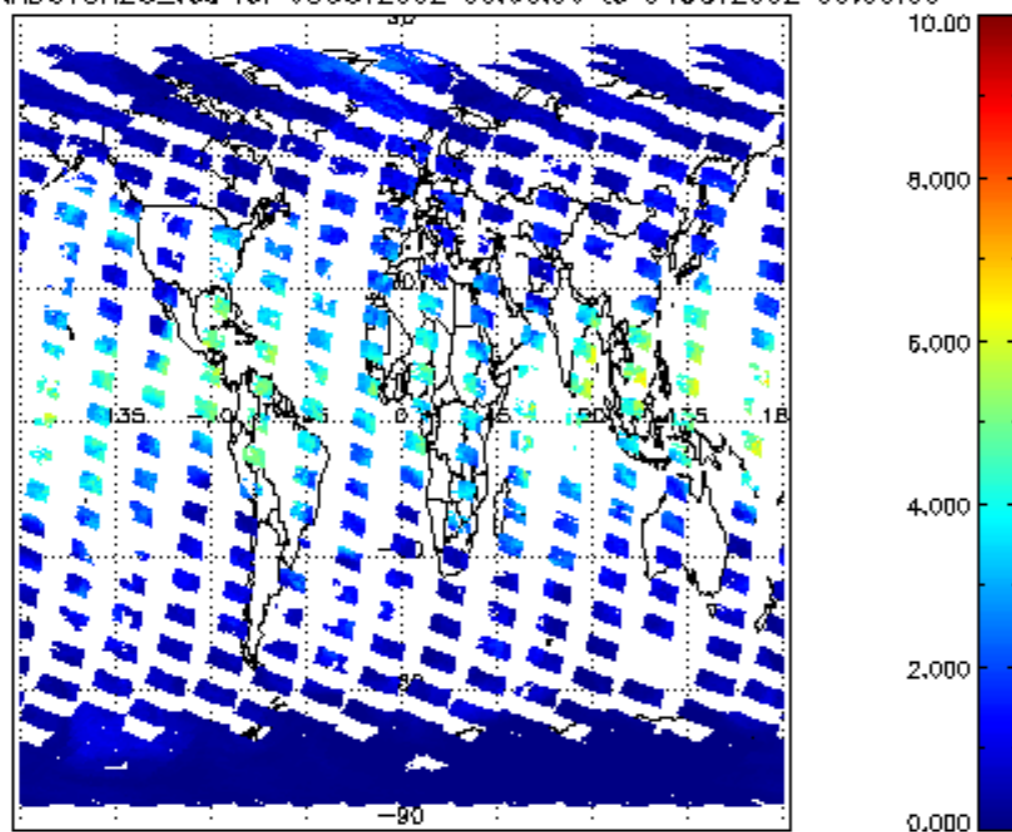
CIOL2P_NADUV60CL_slant_col_den for 03OCT2002 00:00:00 to 04OCT2002 00:00:00 np
 CIOL2P_NADUV60CL_err_slant_col for 03OCT2002 00:00:00 to 04OCT2002 00:00:00 np



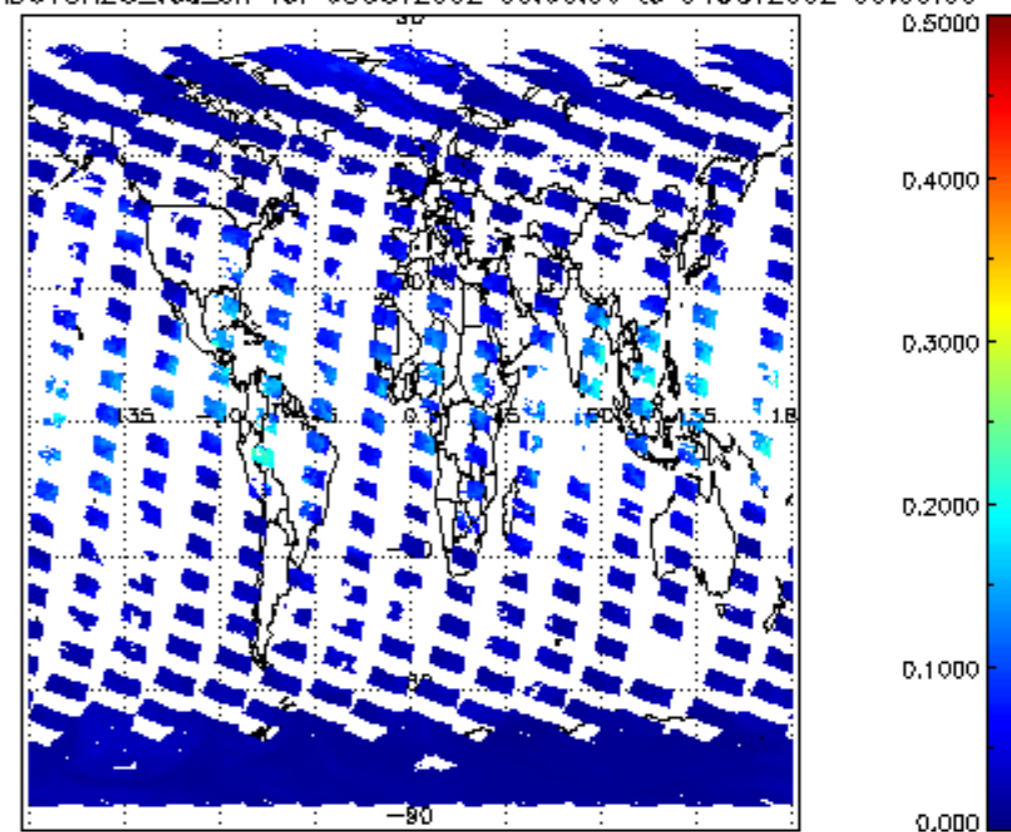
CIOL2P_NADUV60CL_slant_col_den for 03OCT2002 00:00:00 to 04OCT2002 00:00:00 sp; CIOL2P_NADUV60CL_err_slant_col for 03OCT2002 00:00:00 to 04OCT2002 00:00:00 sp



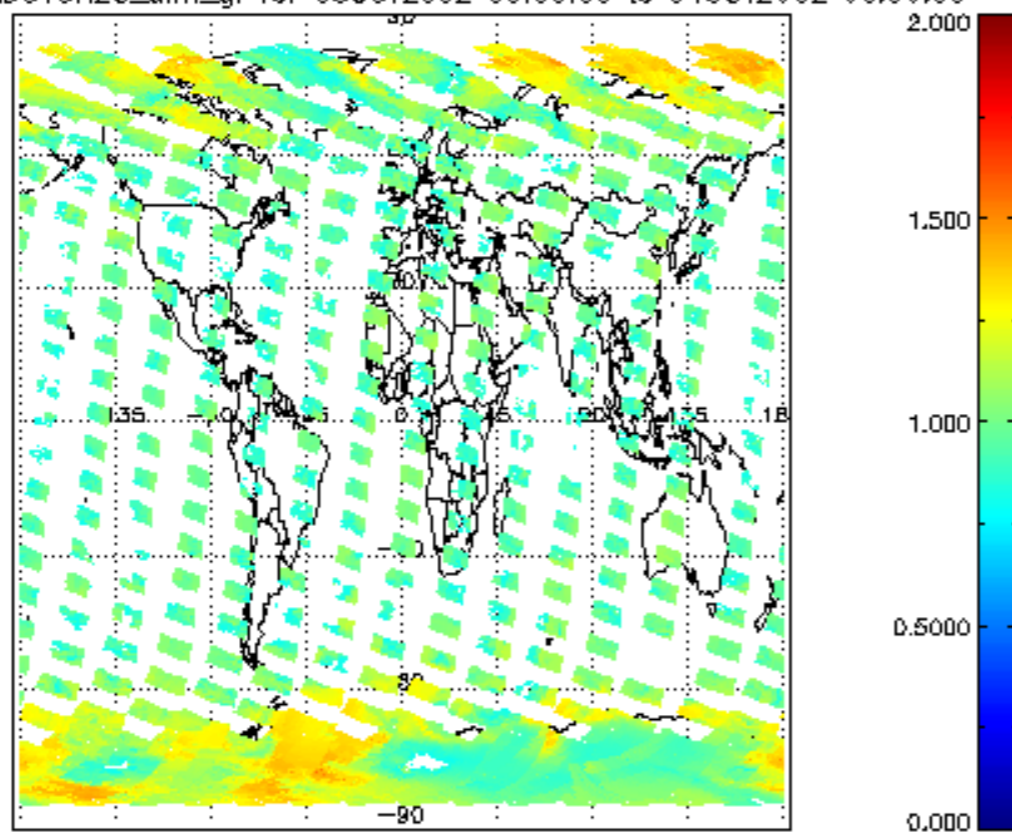
SCIOL2P_NADUV8H20_vcd for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

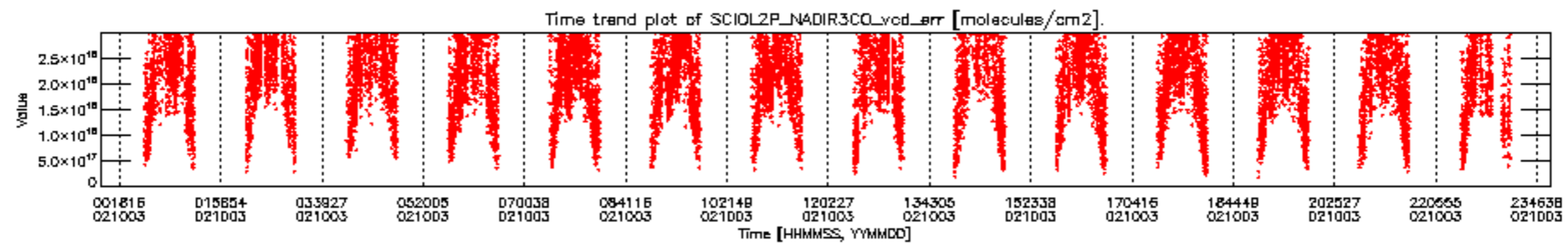
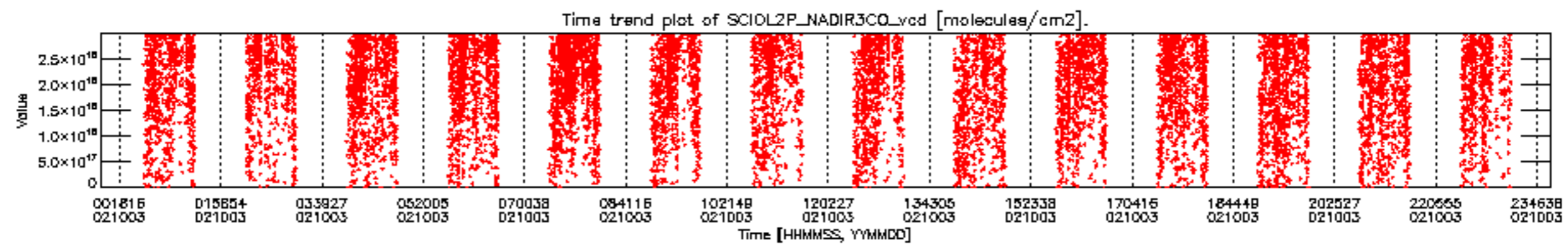


SCIOL2P_NADUV8H20_vcd_err for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

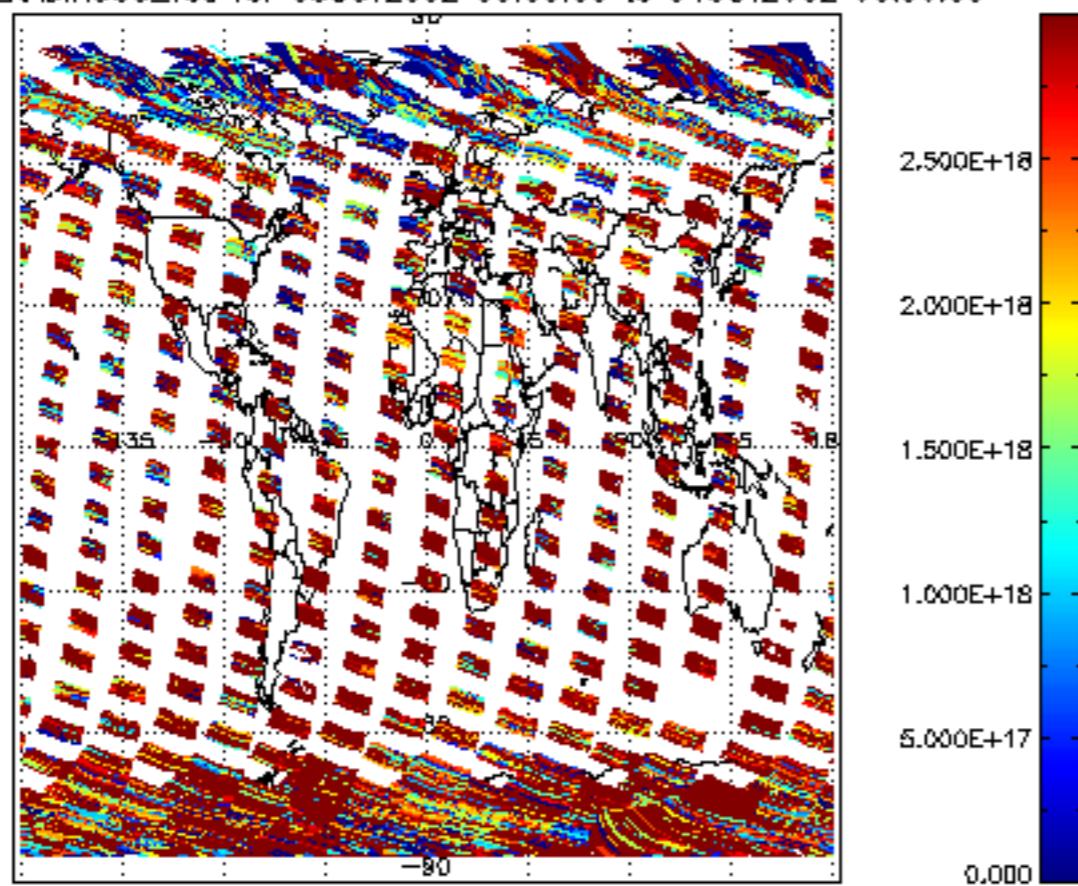


SCIOL2P_NADUV8H20_amf_gr for 03OCT2002 00:00:00 to 04OCT2002 00:00:00

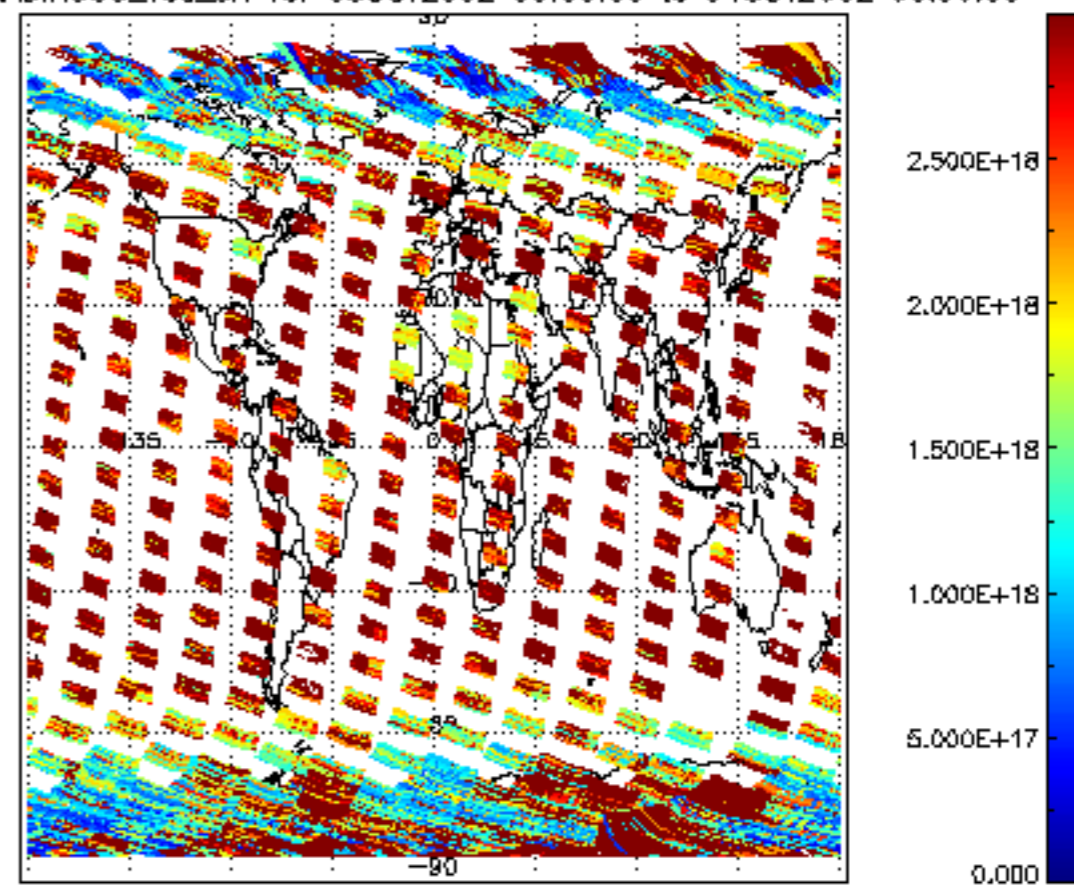




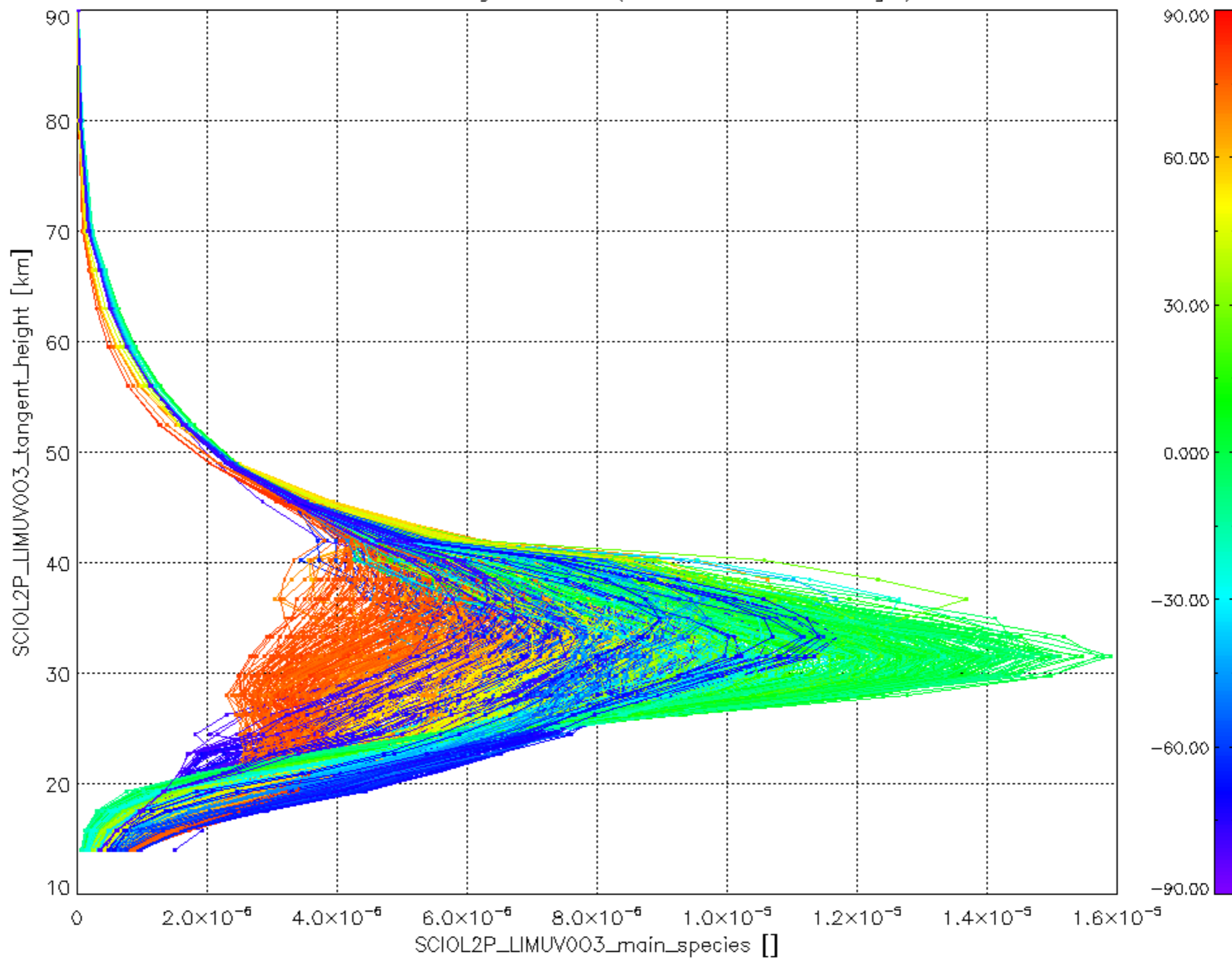
SCIOL2P_NADIR3CO_vcd for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



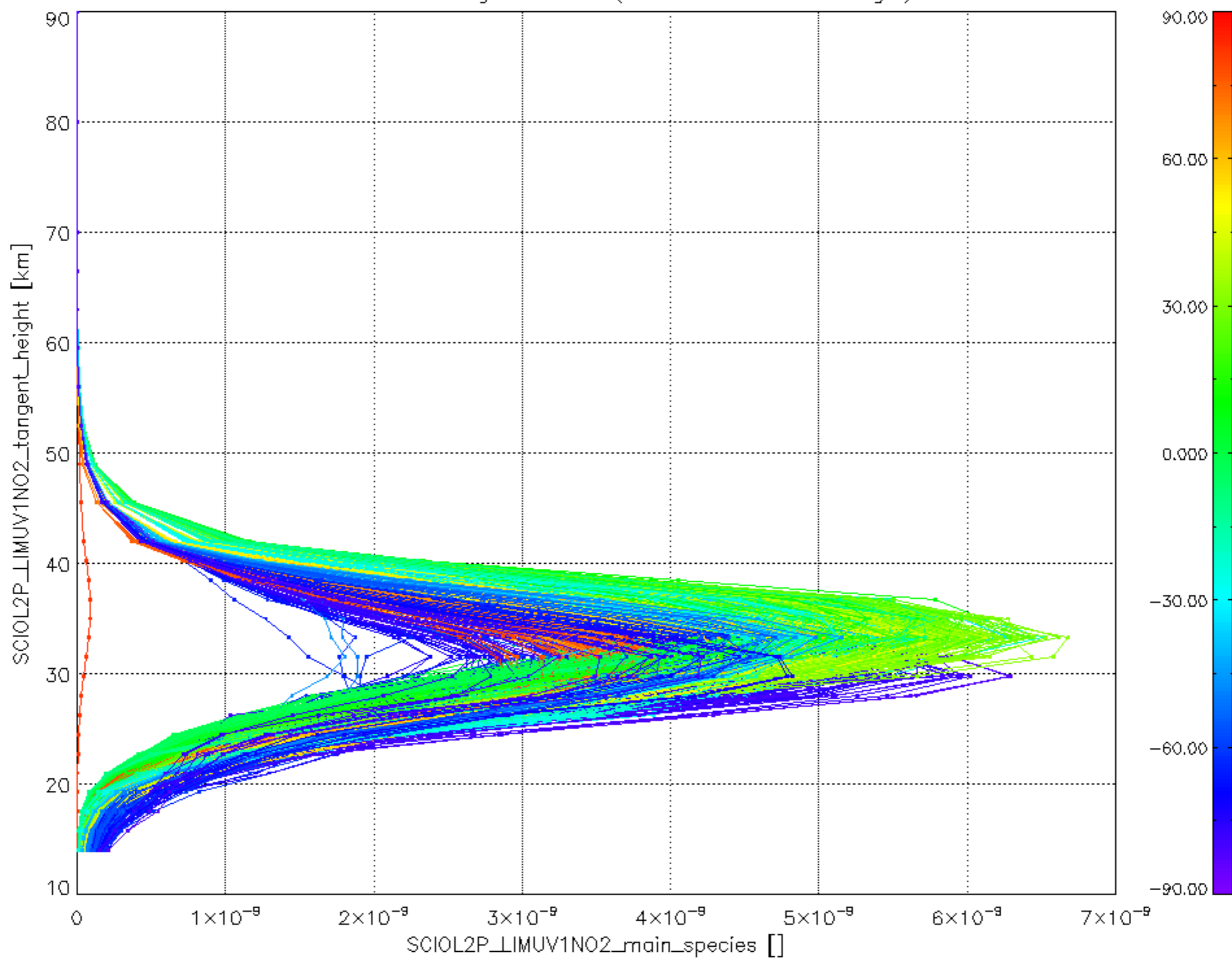
SCIOL2P_NADIR3CO_vcd_err for 03OCT2002 00:00:00 to 04OCT2002 00:00:00



Plot of SCIOL2P_LIMUV003_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



Plot of SCIOL2P_LIMUV1N02_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).

