

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	06APR2012 03:33:03
Data source version	SCIA-OL/5.02-W
Processing scope for products	25MAR2012 00:00:00 to 26MAR2012 00:00:00
Start time of first product within scope	24MAR2012 23:14:23
Stop time of last product within scope	25MAR2012 23:36:23
Total number of level 2 products	15
Number of level 2 products with errors	0

2.1.2 Summary per product

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

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__2PWDPA20120324_231423_000035303113_00059_52659_4148.N1	24MAR2012 23:14:23	25MAR2012 00:13:14	0	GOOD
1	SCI_OL__2PWDPA20120325_005436_000035163113_00060_52660_4158.N1	25MAR2012 00:54:36	25MAR2012 01:53:13	0	GOOD
2	SCI_OL__2PWDPA20120325_023450_000035303113_00061_52661_4140.N1	25MAR2012 02:34:50	25MAR2012 03:33:40	0	GOOD
3	SCI_OL__2PWDPA20120325_041503_000035163113_00062_52662_4149.N1	25MAR2012 04:15:03	25MAR2012 05:13:40	0	GOOD
4	SCI_OL__2PWDPA20120325_055517_000035303113_00063_52663_4142.N1	25MAR2012 05:55:17	25MAR2012 06:54:08	0	GOOD

5	SCI_OL__2PWDP	A20120325_073531_000035163113_00064_52664_4143.N1	25MAR2012 07:35:31	25MAR2012 08:34:07	0	GOOD
6	SCI_OL__2PWDP	A20120325_091544_000035303113_00065_52665_4144.N1	25MAR2012 09:15:44	25MAR2012 10:14:35	0	GOOD
7	SCI_OL__2PWDP	A20120325_105557_000035163113_00066_52666_4145.N1	25MAR2012 10:55:57	25MAR2012 11:54:34	0	GOOD
8	SCI_OL__2PWDP	A20120325_123611_000035303113_00067_52667_4146.N1	25MAR2012 12:36:11	25MAR2012 13:35:01	0	GOOD
9	SCI_OL__2PWDP	A20120325_141624_000035163113_00068_52668_4147.N1	25MAR2012 14:16:24	25MAR2012 15:15:01	0	GOOD
10	SCI_OL__2PWDP	A20120325_155638_000035303113_00069_52669_4150.N1	25MAR2012 15:56:38	25MAR2012 16:55:28	0	GOOD
11	SCI_OL__2PWDP	A20120325_173748_000034813113_00070_52670_4151.N1	25MAR2012 17:37:48	25MAR2012 18:35:50	0	GOOD
12	SCI_OL__2PWDP	A20120325_191720_000034613113_00071_52671_4152.N1	25MAR2012 19:17:20	25MAR2012 20:15:02	0	GOOD
13	SCI_OL__2PWDP	A20120325_205719_000035163113_00072_52672_4153.N1	25MAR2012 20:57:19	25MAR2012 21:55:55	0	GOOD
14	SCI_OL__2PWDP	A20120325_223732_000035303113_00073_52673_4154.N1	25MAR2012 22:37:32	25MAR2012 23:36:23	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: 165360

Total number of cloud data DSRs with good quality flag (=0): 165360 (100.0 %)

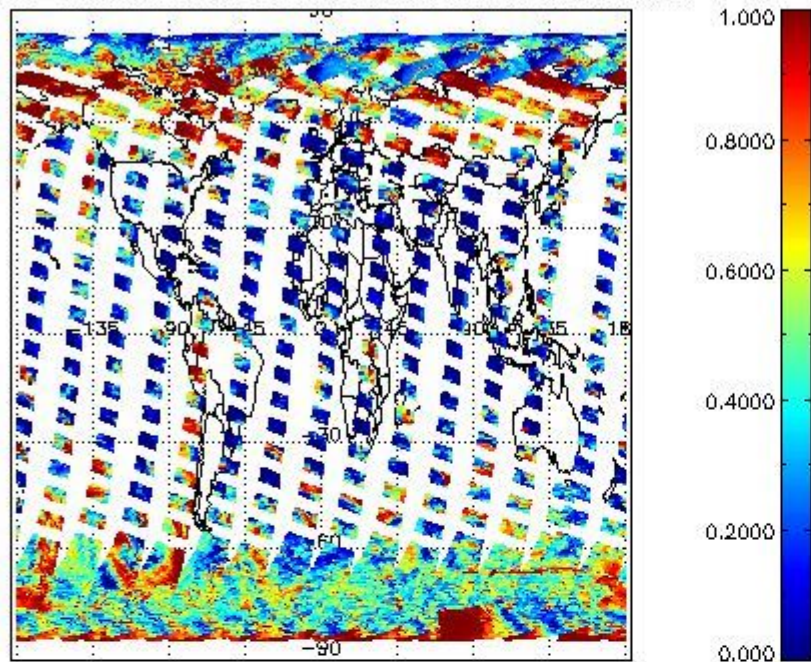
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	165360	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	165360	0.16509	0.12500	0.12500	0.25000	0.058346	s
CL_FRAC	165360	0.46385	0.43911	0.0000	1.0000	0.33267	
CL_FRAC_ERR	165360	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	165360	5.2830	4.0000	4.0000	8.0000	1.8671	
PMD_READ_CL[0]	165360	0.66023	0.0000	0.0000	8.0000	1.5035	-
PMD_READ_CL[1]	165360	1.2120	0.0000	0.0000	8.0000	2.5217	-
CL_TOP_HEIGHT	132251	3.3549	1.6990	0.0000	17.000	3.7144	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	132251	63.283	98.548	0.0000	101.00	41.353	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	165360	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	165360	11001100	11000100	11000000	11100000	3472.0	
AERO_ABSO_IND	165360	0.094450	0.0000	0.0000	6.0629	0.30177	
AERO_IND_DIAG	165360	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	165360	01010100	00000000	00000000	11000000	24384.	

Time and geolocation plots:

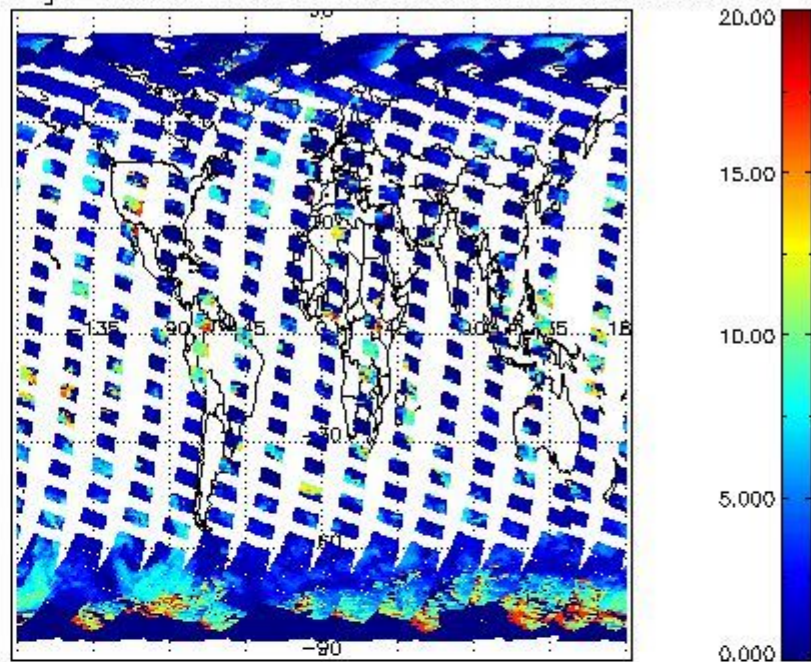
Plots are available for the following parameters:

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

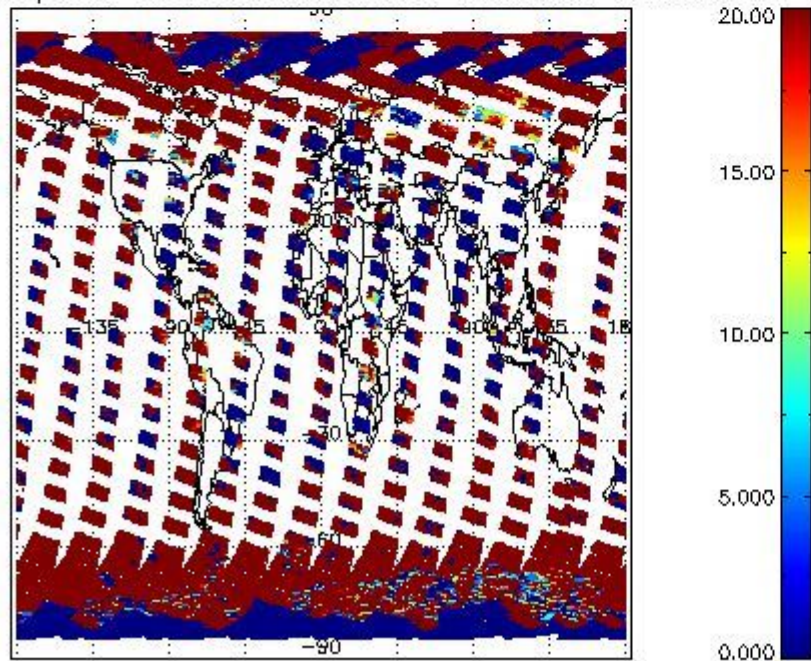
cL_frac for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



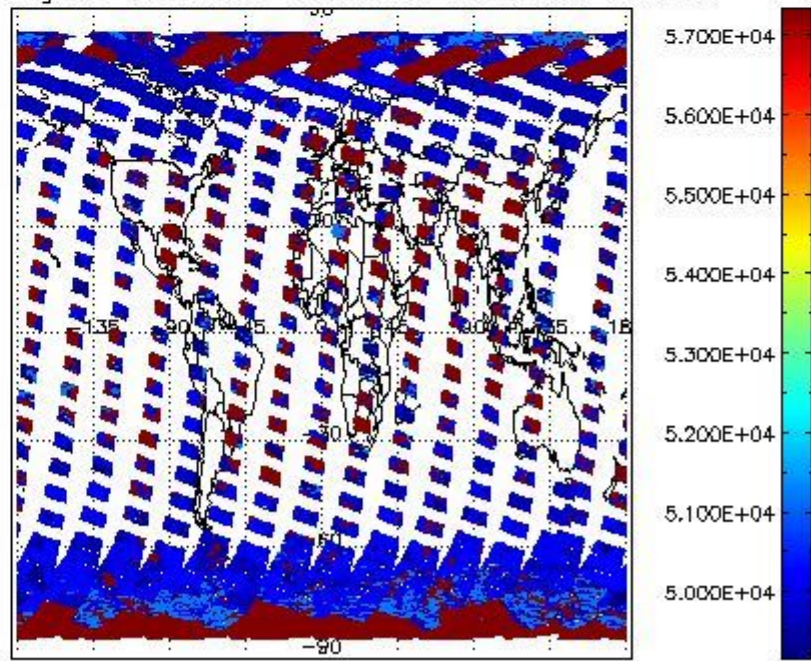
cL_top_height for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



cL_opt_depth for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



cloud_flags for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



2.2.2 Nadir

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

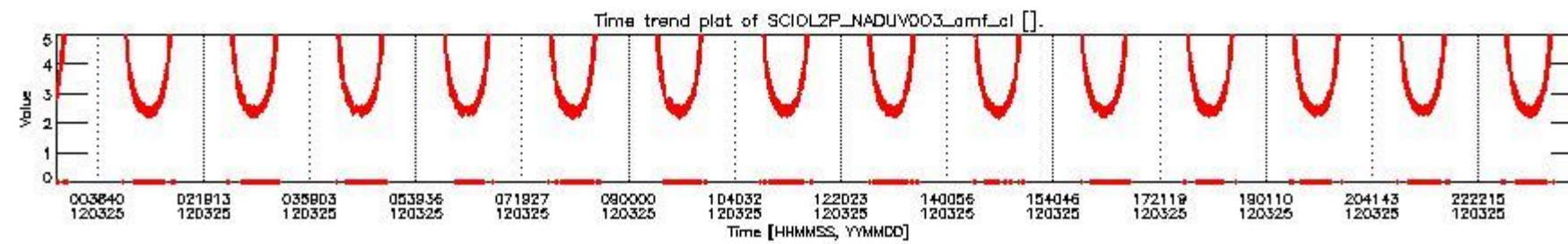
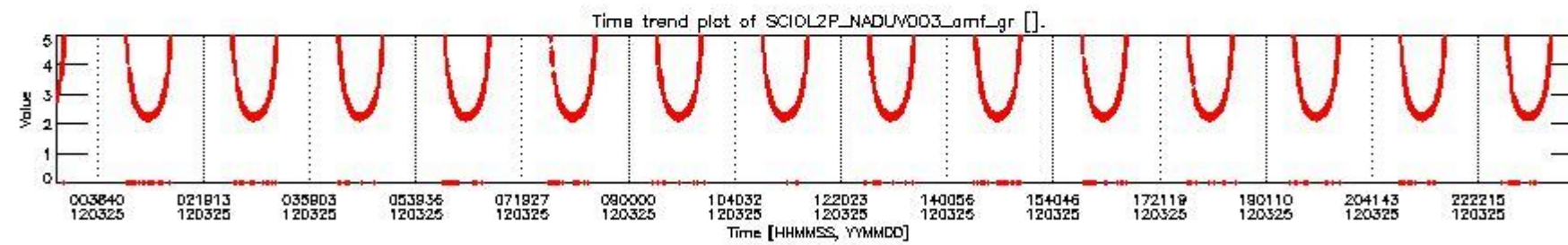
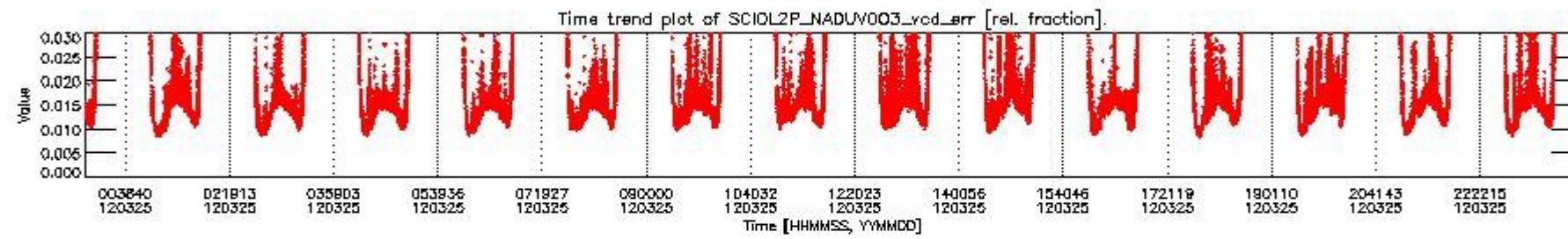
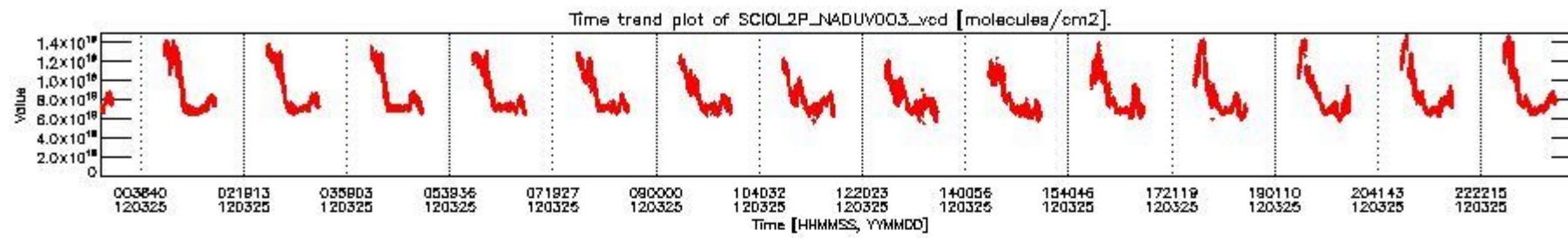
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

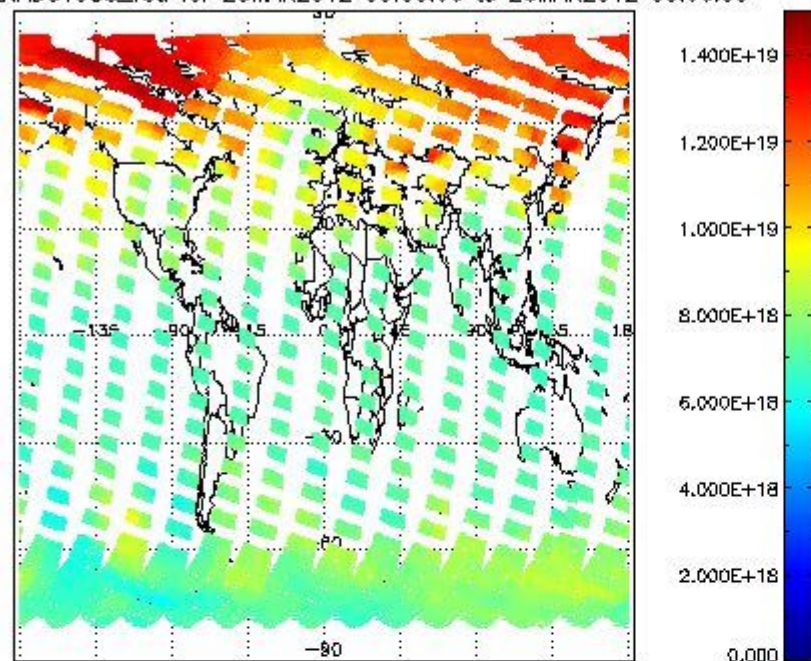
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr
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.

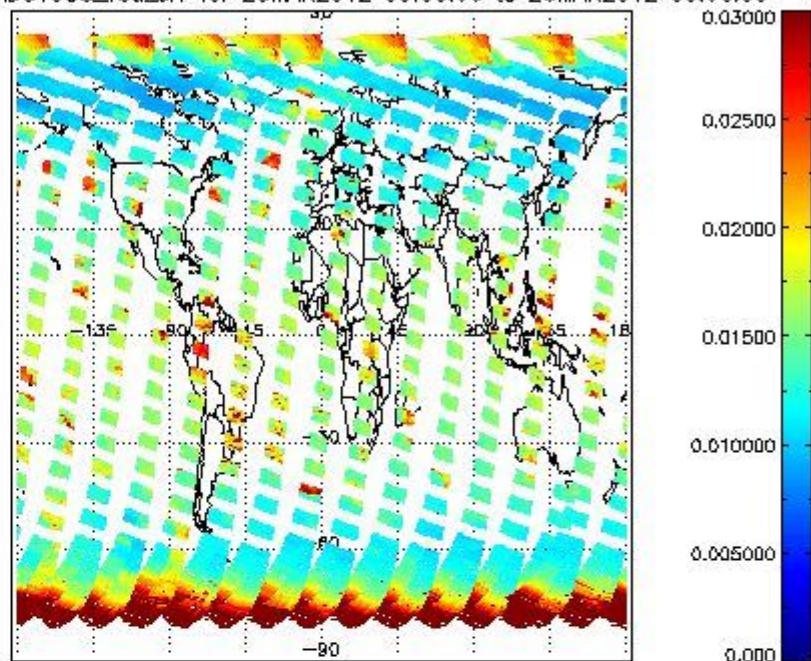
2.2.2.1 O3 (UV0)



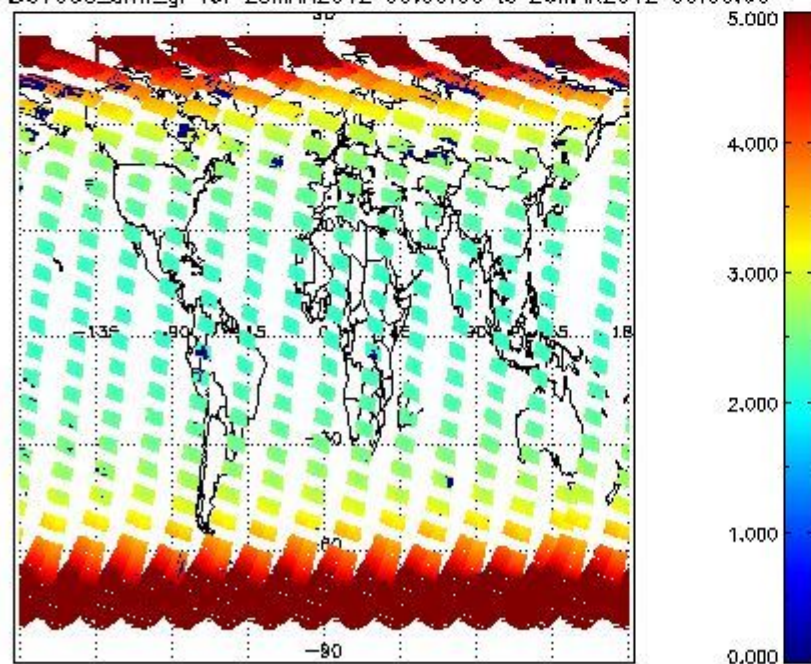
SCIOL2P_NADUV003_vcd for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



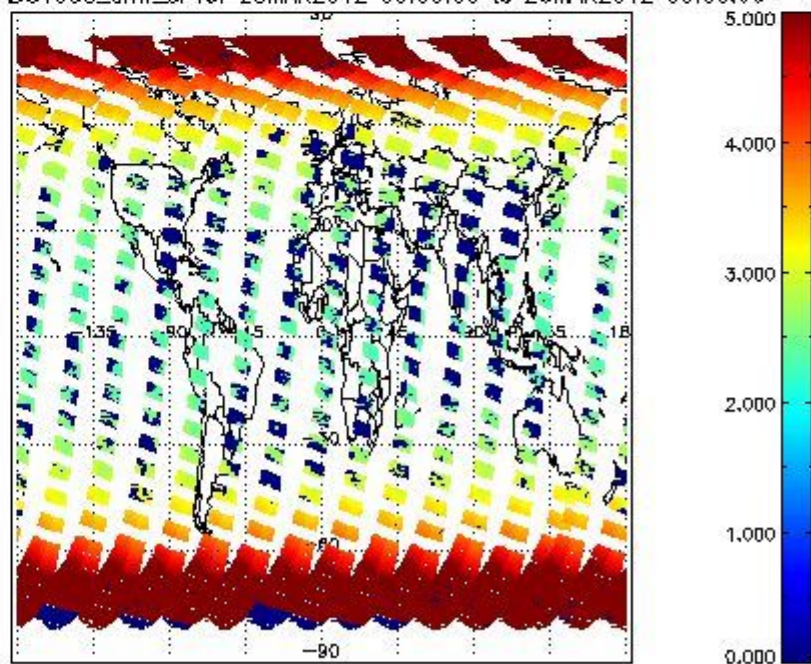
SCIOL2P_NADUV003_vcd_err for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



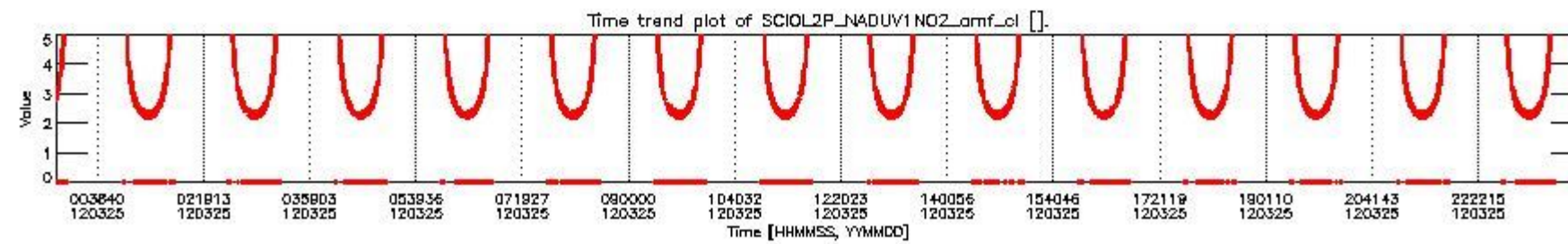
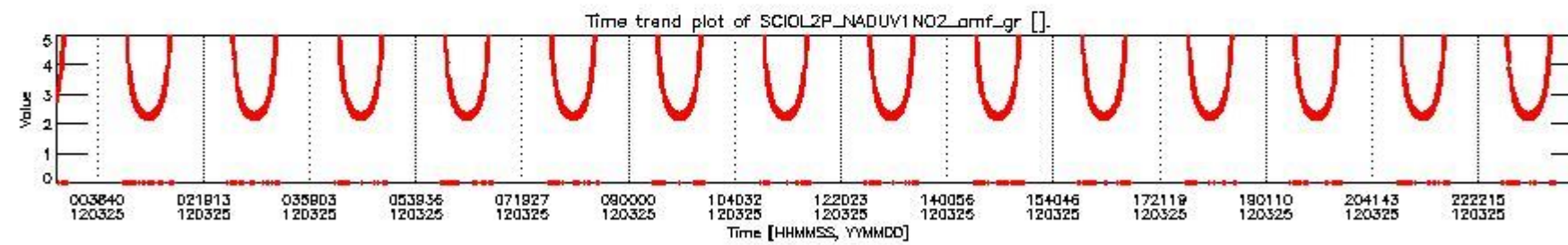
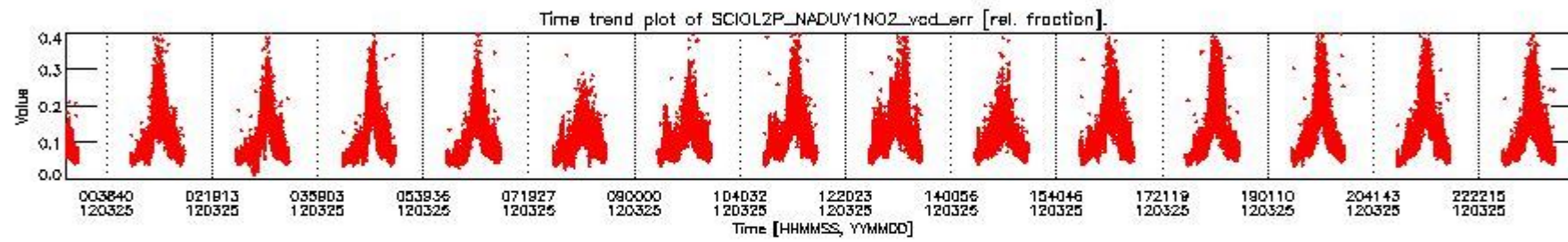
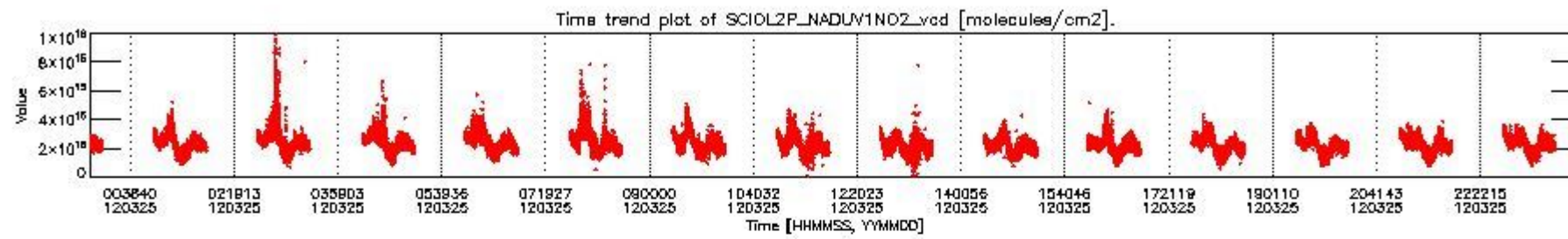
SCIOL2P_NADUV003_amf_gr for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



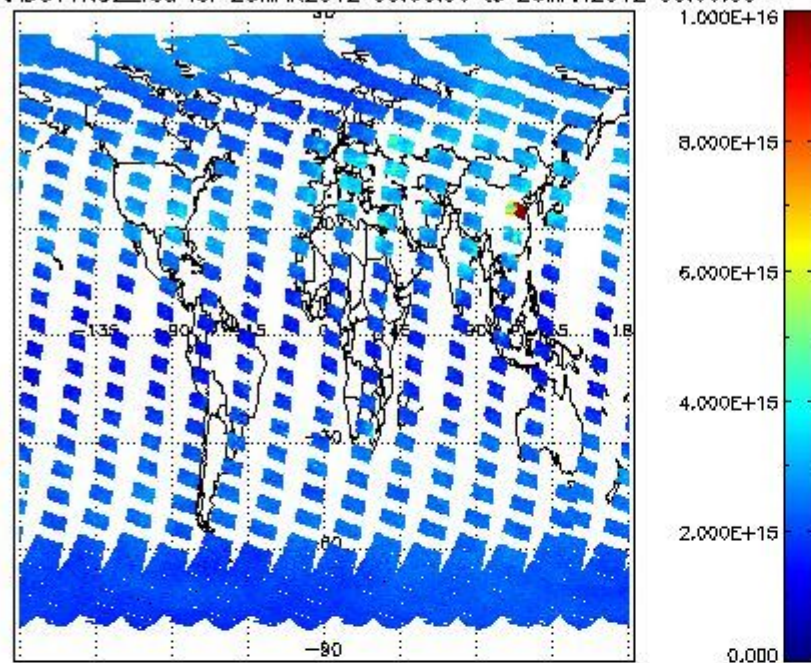
SCIOL2P_NADUV003_amf_cl for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



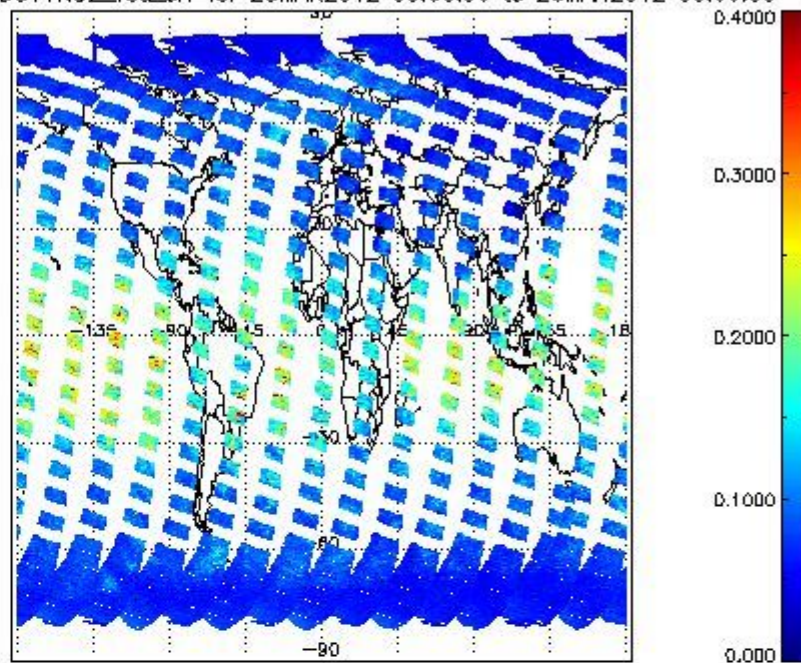
2.2.2.2 NO2 (UV1)



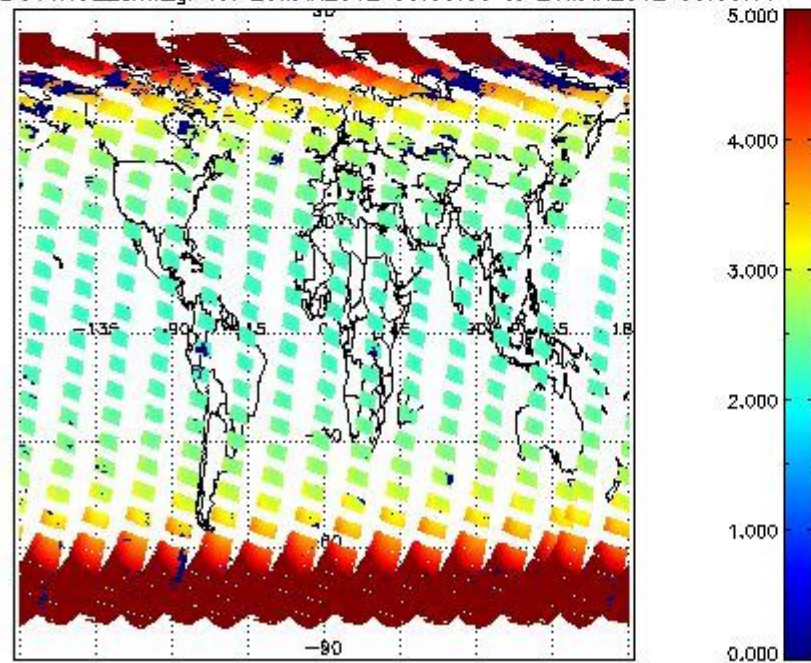
SCIOL2P_NADUV1NO2_vcd for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



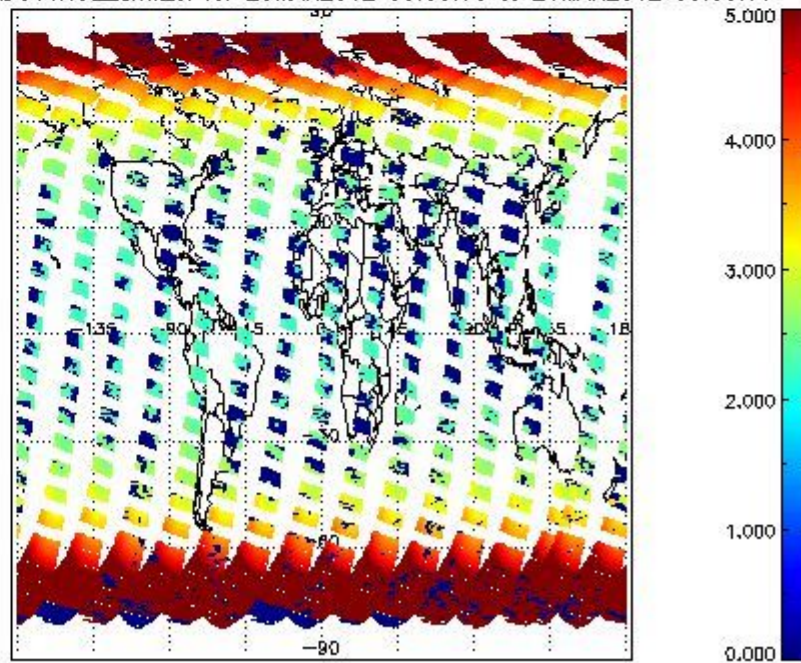
SCIOL2P_NADUV1NO2_vcd_err for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



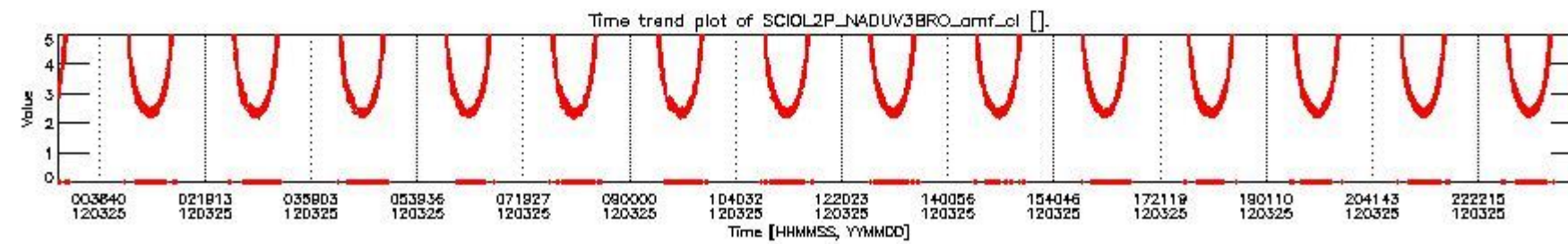
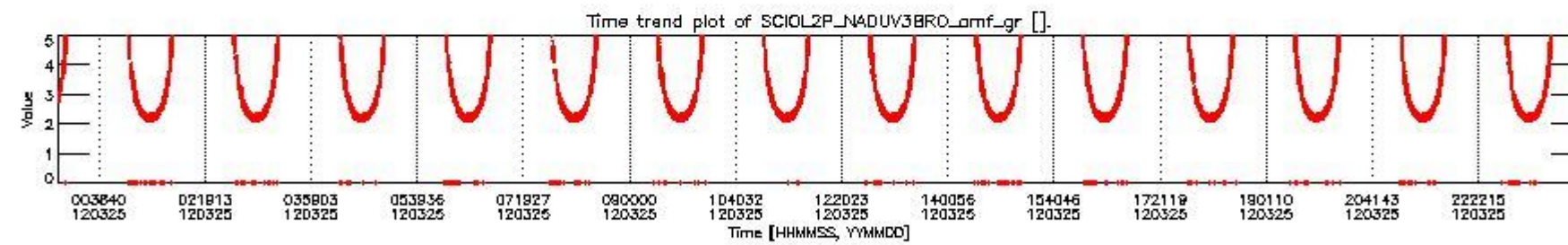
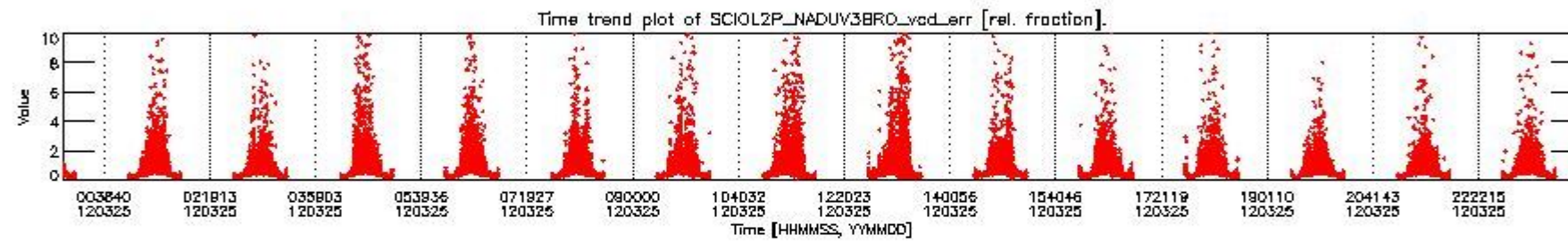
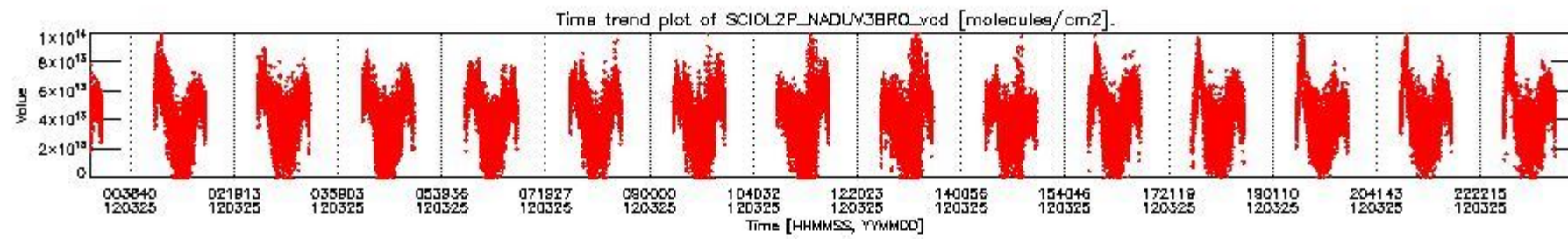
SCIOL2P_NADUV1NO2_amf_gr for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



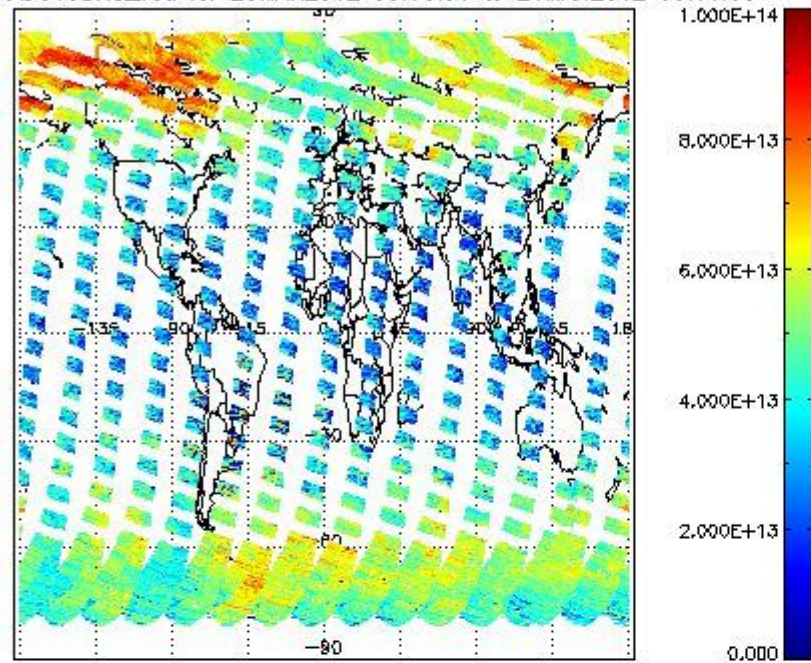
SCIOL2P_NADUV1NO2_amf_cl for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



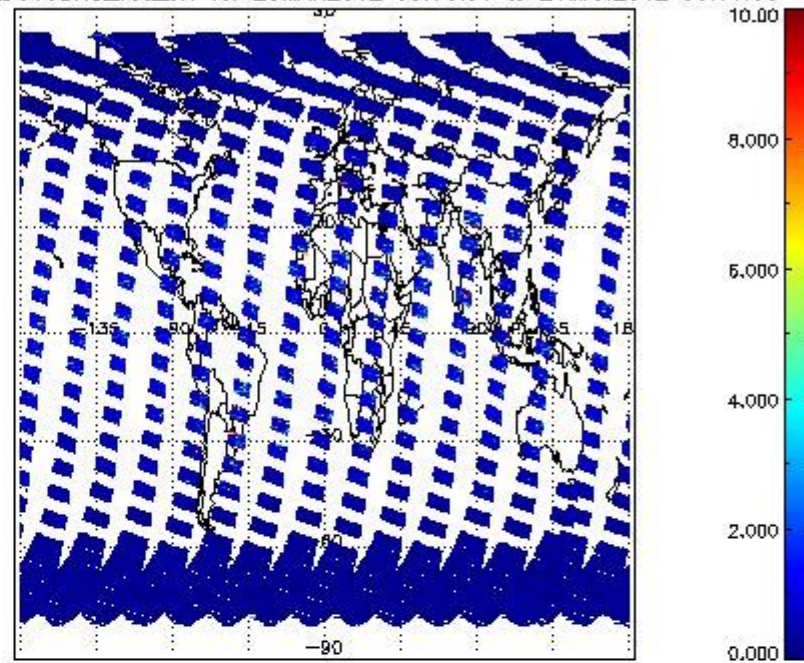
2.2.2.3 BrO (UV3)



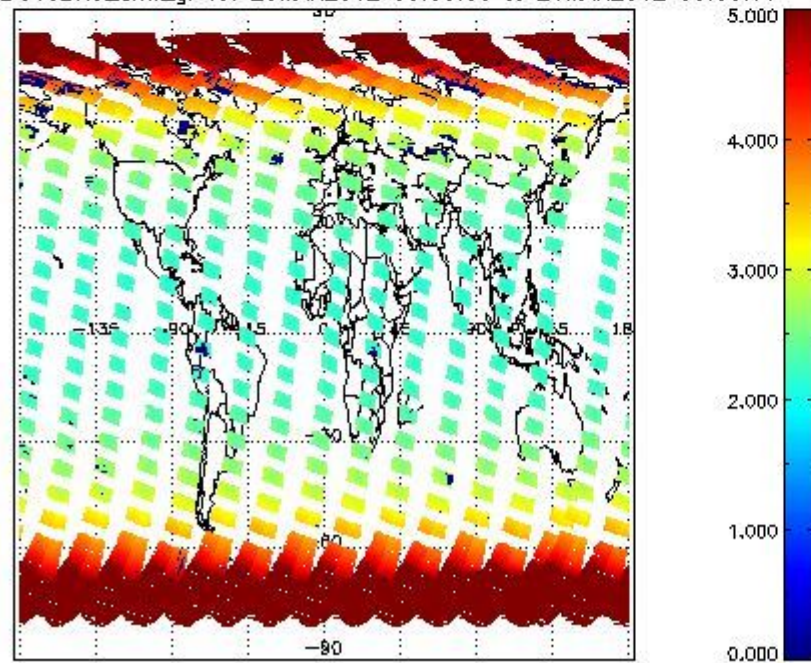
SCIOL2P_NADUV3BRO_vcd for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



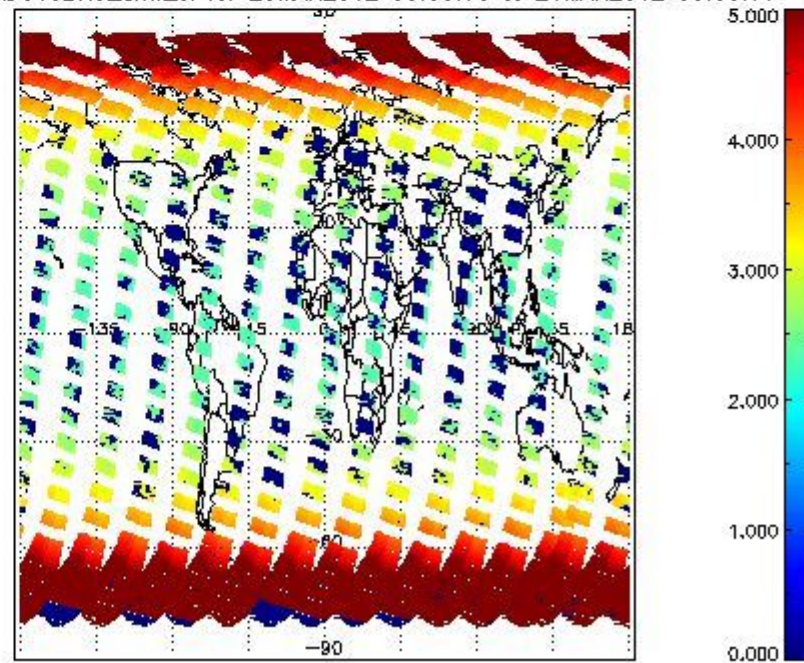
SCIOL2P_NADUV3BRO_vcd_err for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



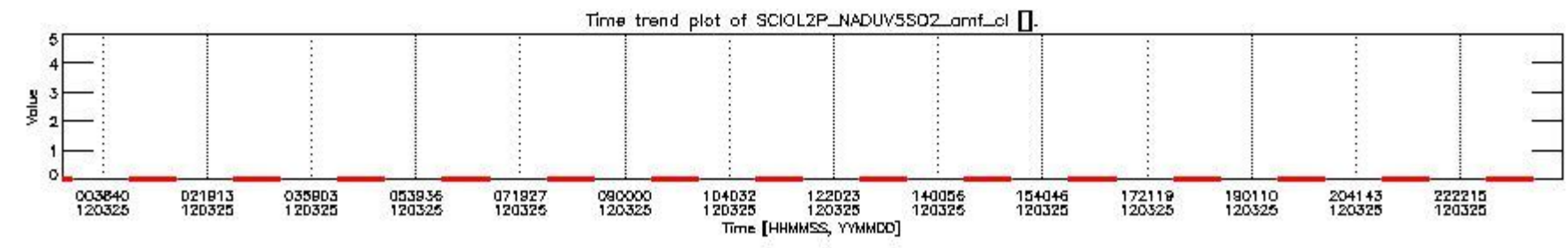
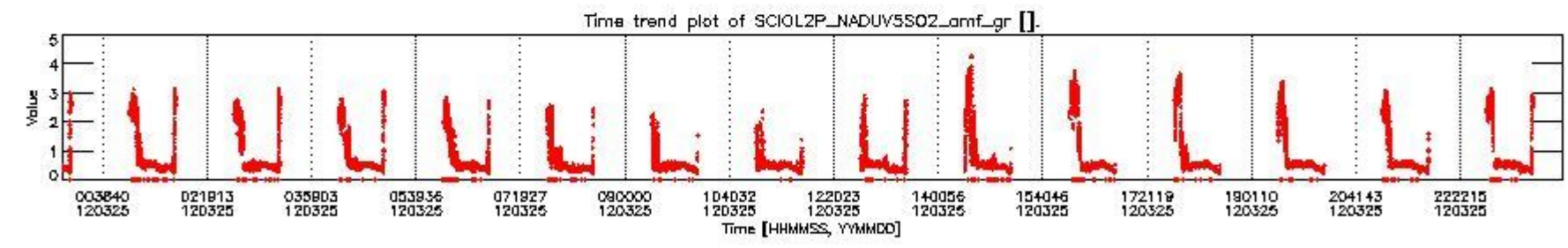
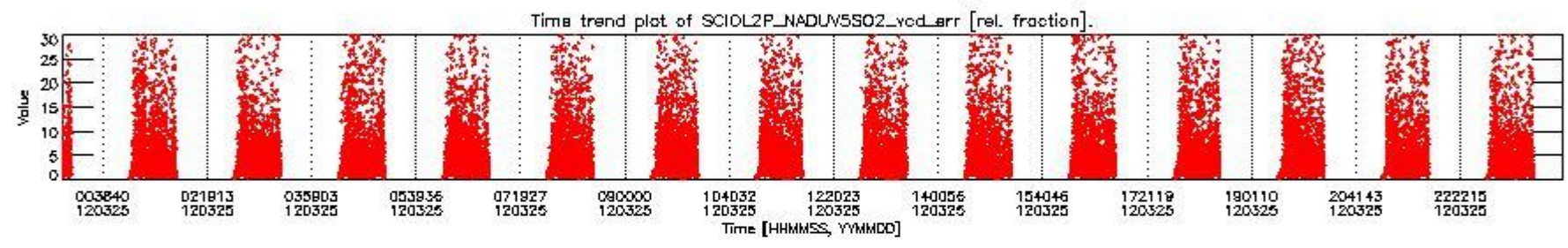
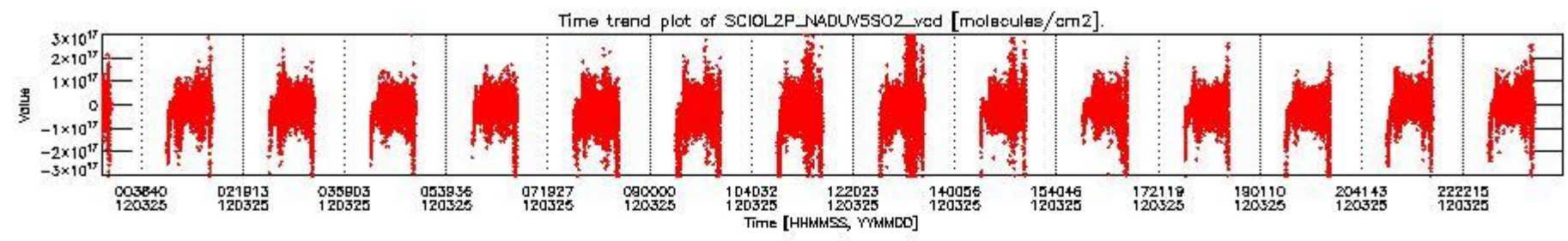
SCIOL2P_NADUV3BRO_amf_gr for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



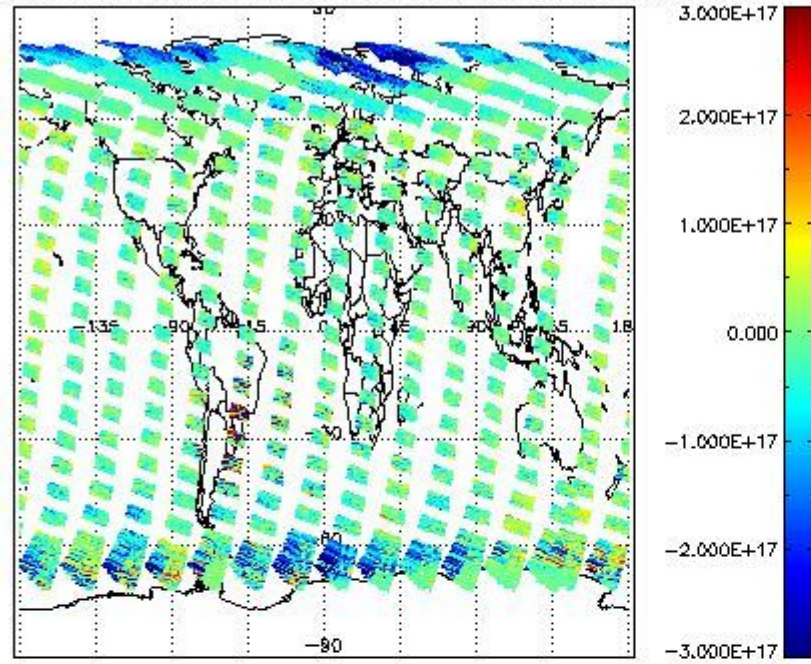
SCIOL2P_NADUV3BRO_amf_cl for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



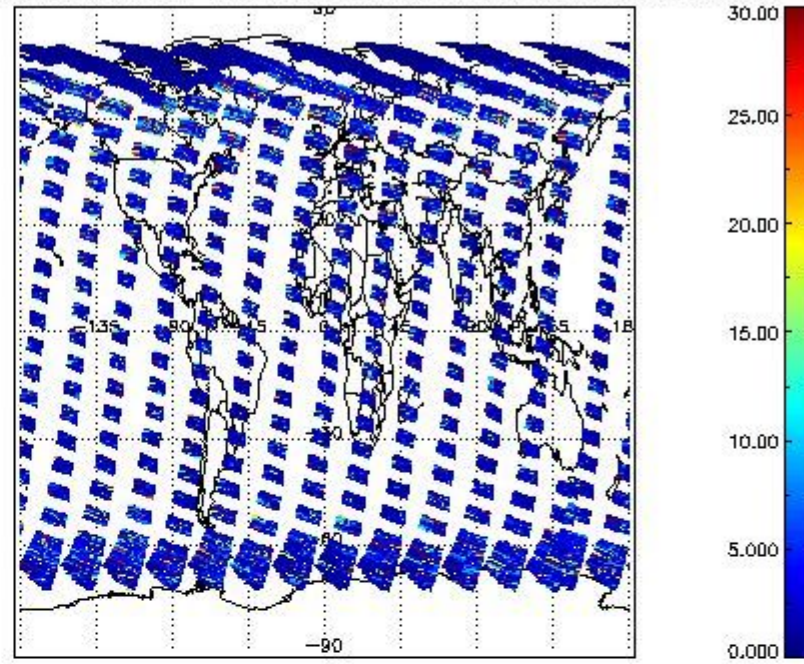
2.2.2.4 SO2 (UV5)



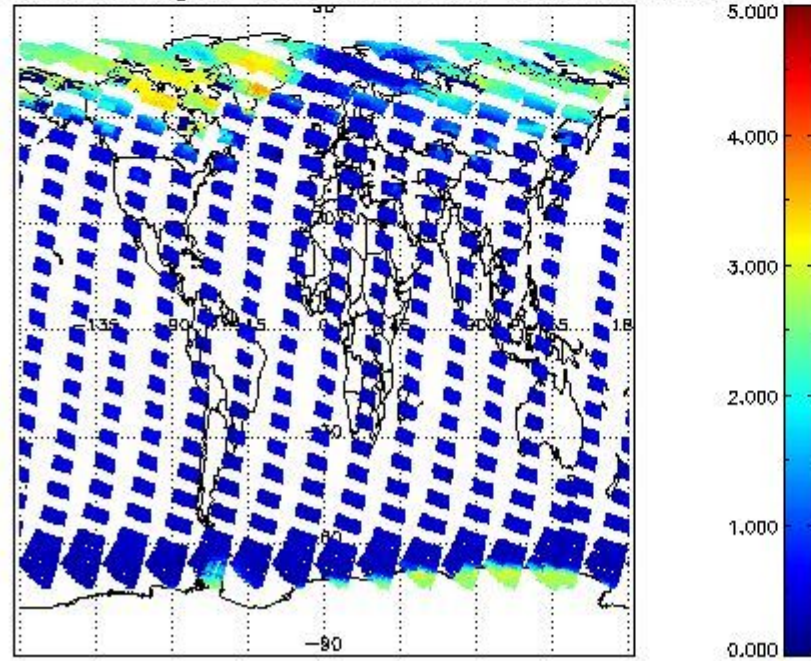
SCIOL2P_NADUV5SO2_vcd for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



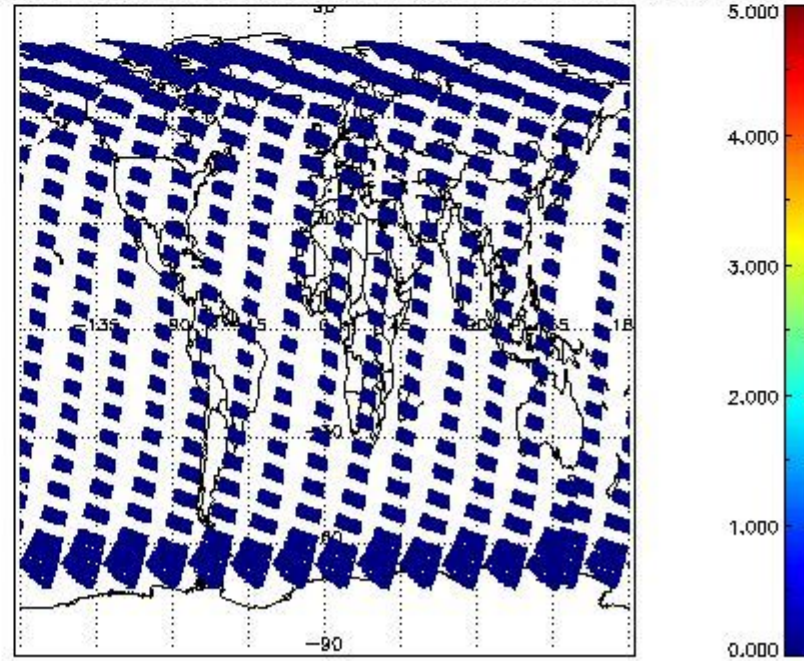
SCIOL2P_NADUV5SO2_vcd_err for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



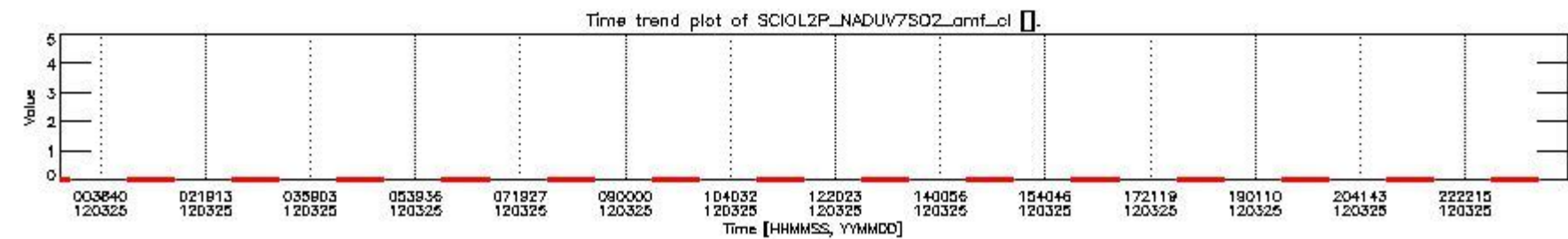
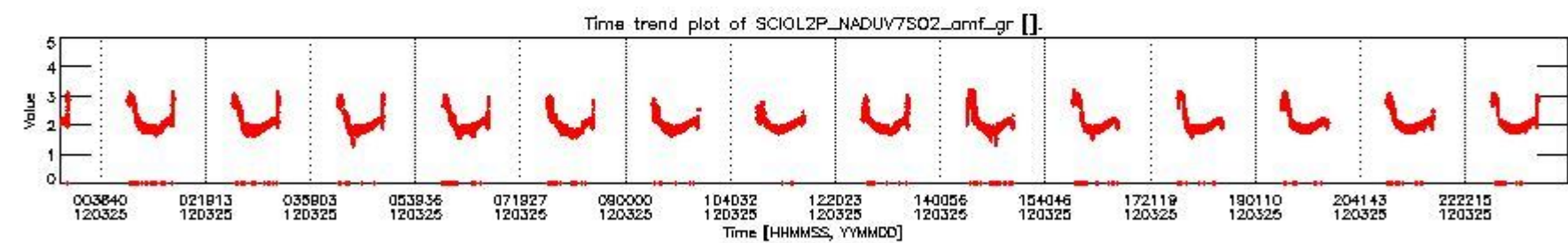
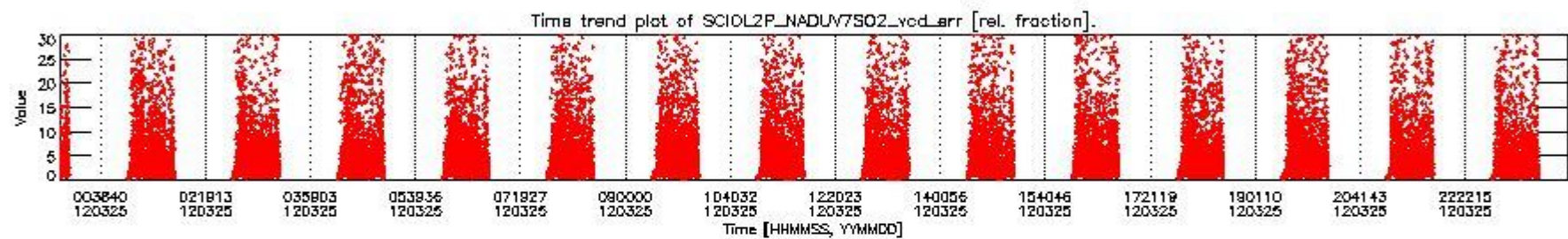
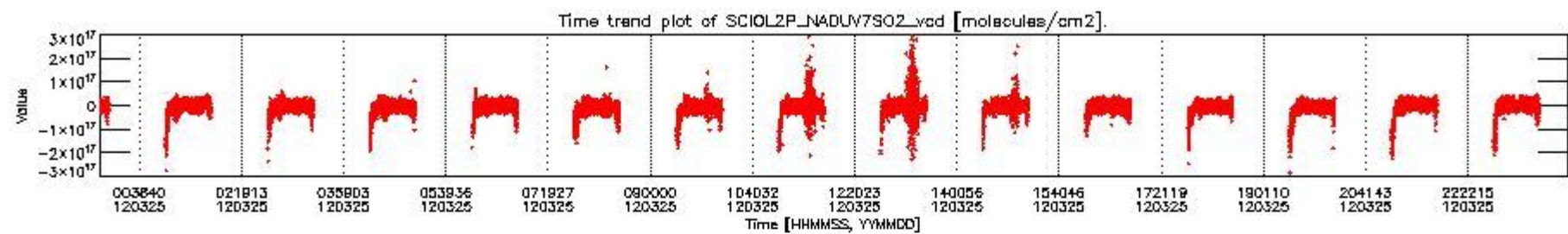
SCIOL2P_NADUV5SO2_amf_gr for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



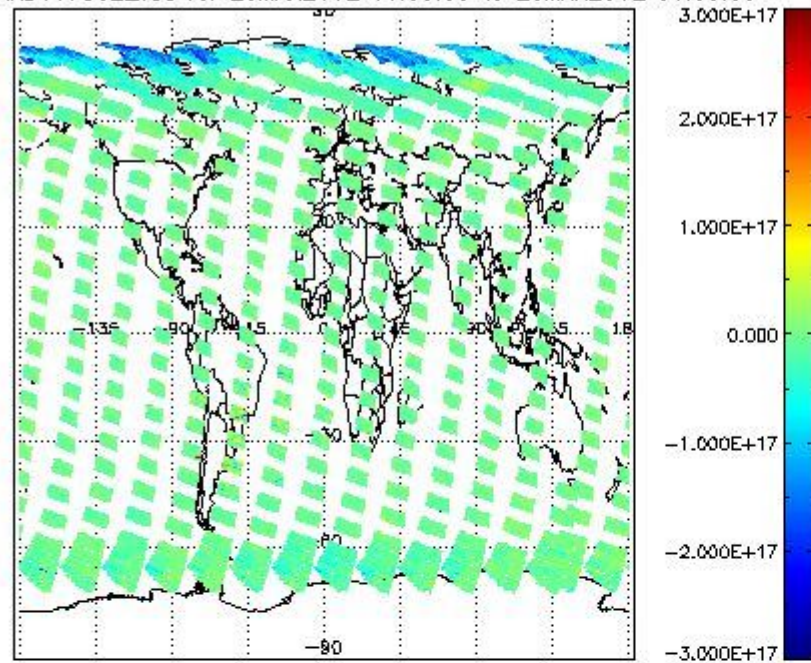
SCIOL2P_NADUV5SO2_amf_cl for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



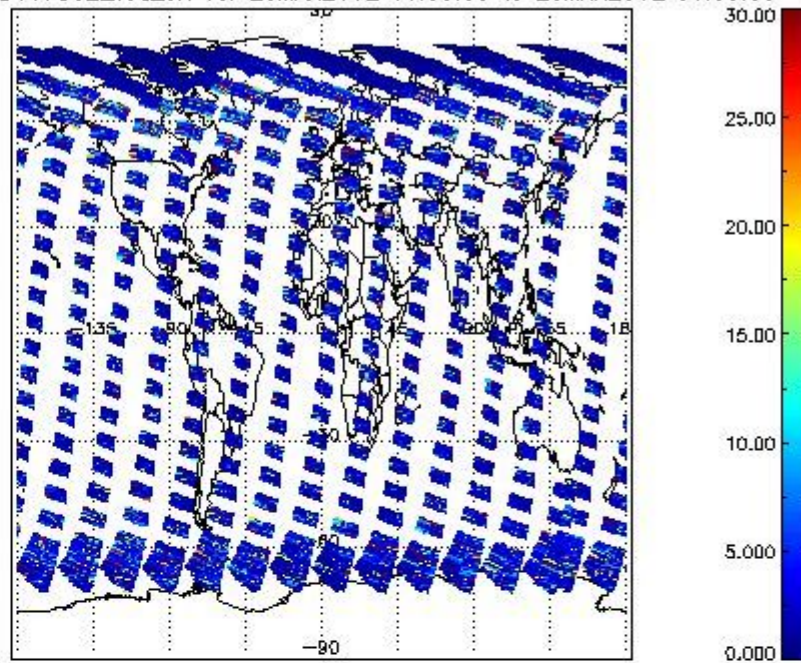
2.2.2.5 SO2 (UV7)



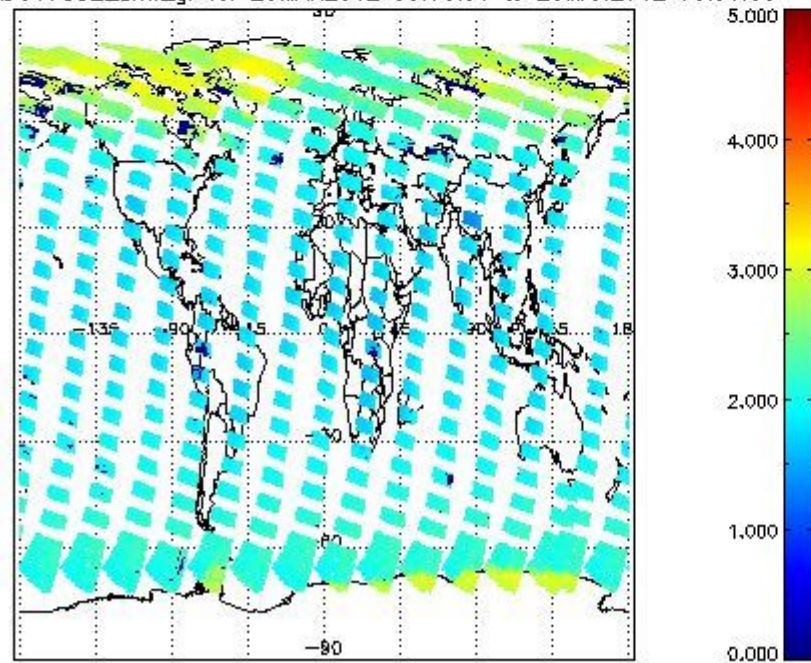
SCIOL2P_NADUV7S02_vcd for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



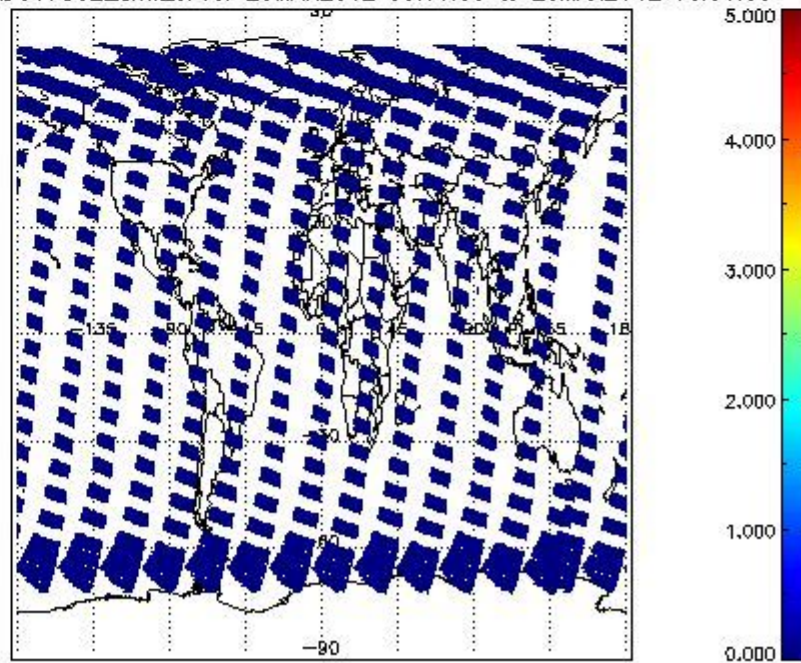
SCIOL2P_NADUV7S02_vcd_err for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



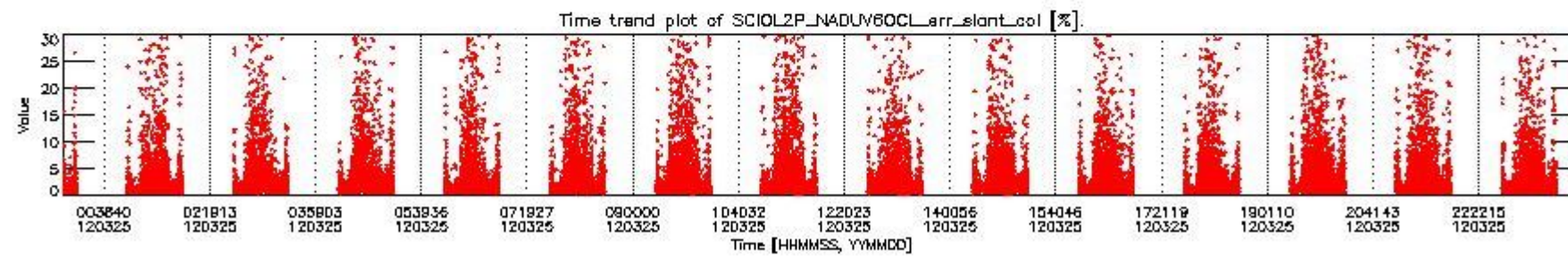
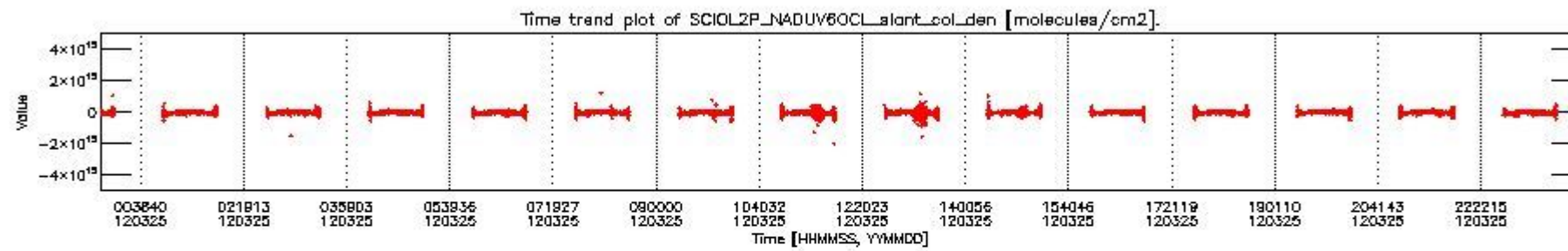
SCIOL2P_NADUV7S02_amf_gr for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



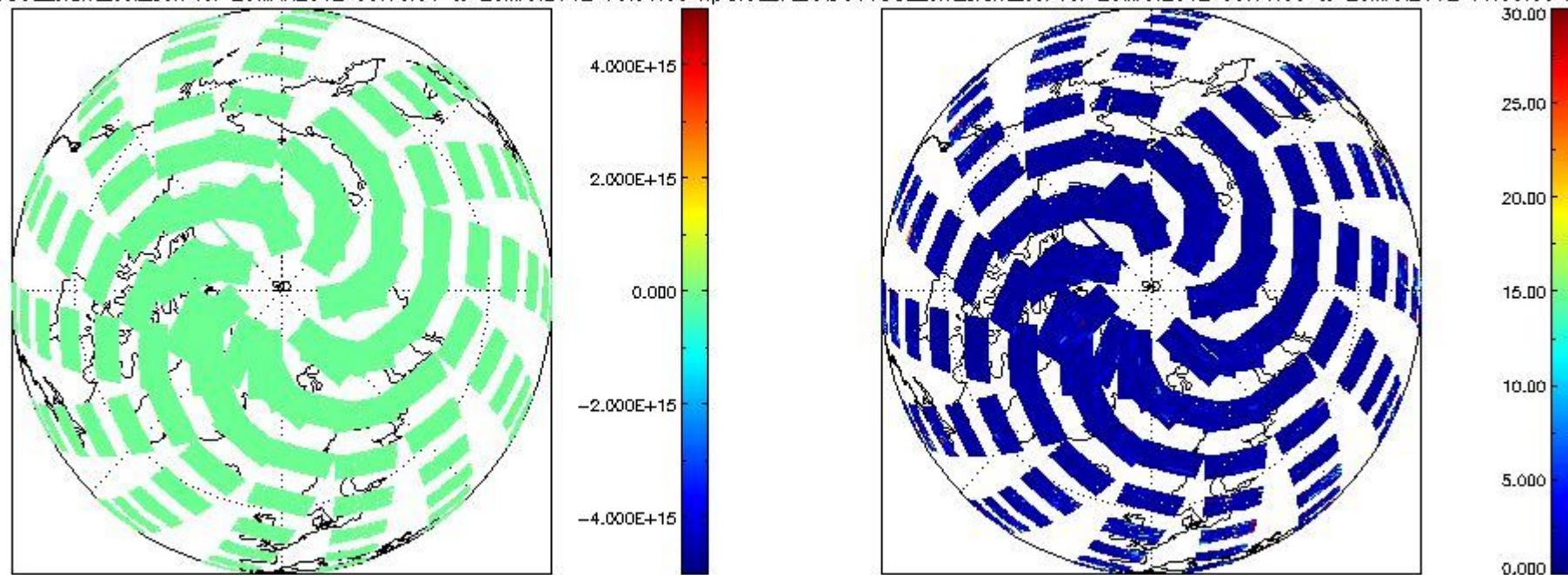
SCIOL2P_NADUV7S02_amf_cl for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



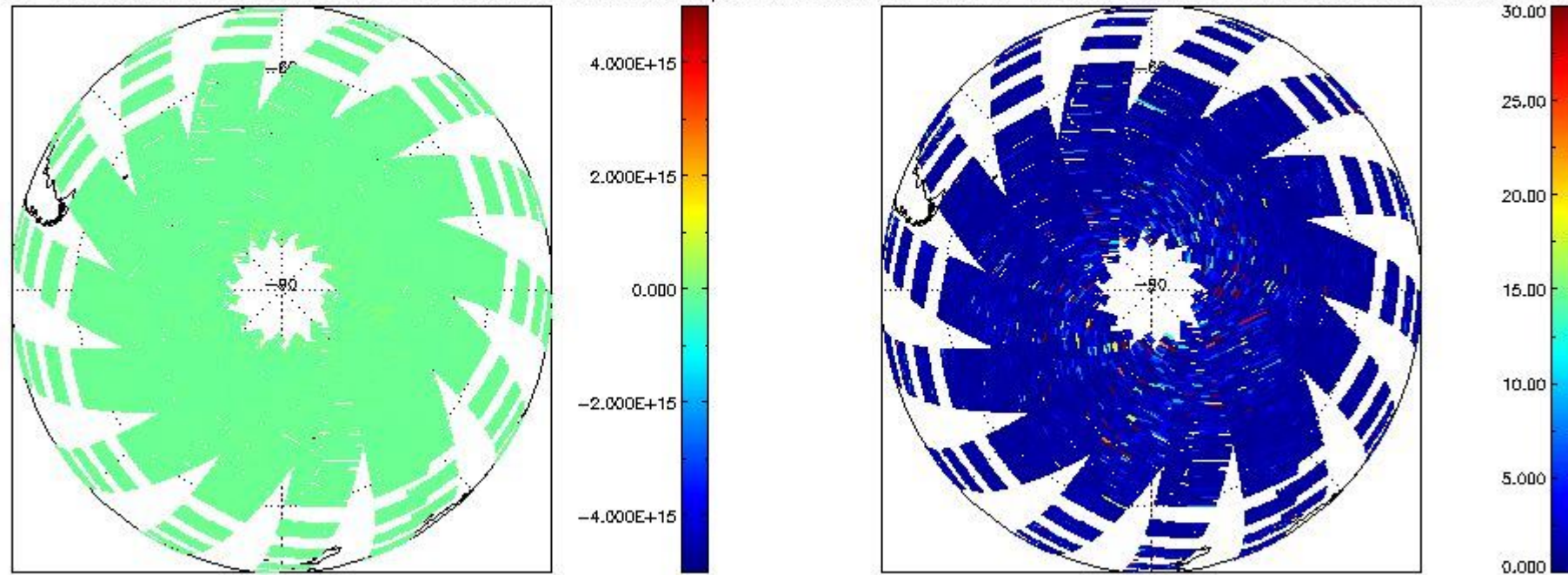
2.2.2.6 OCIO (UV6)



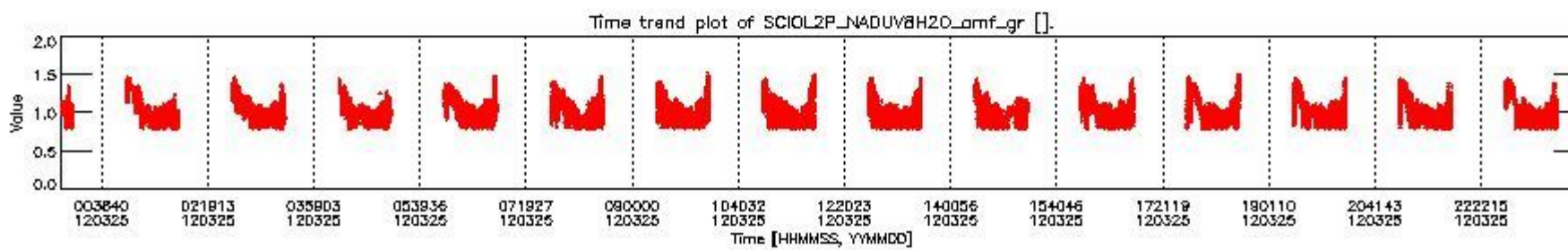
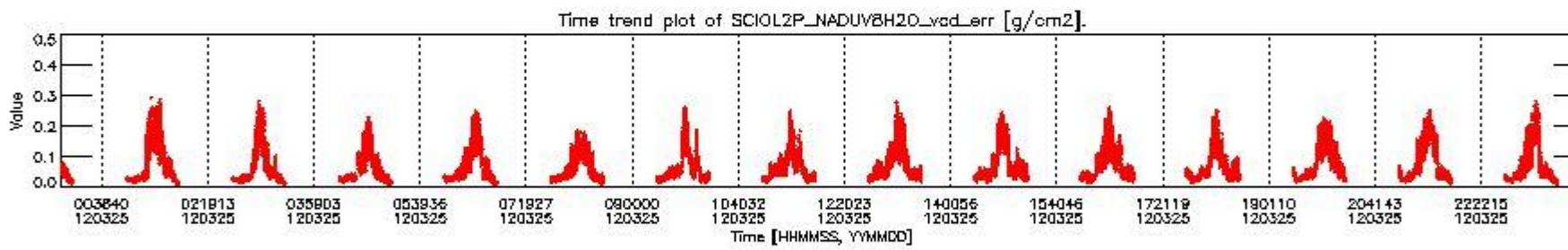
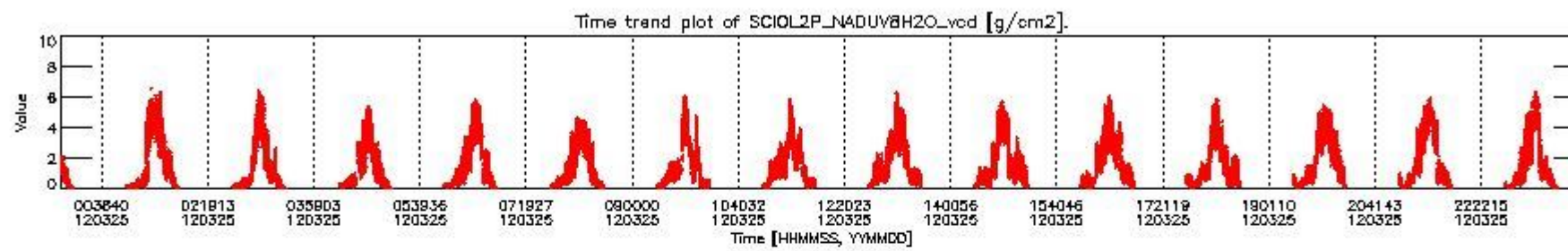
CIOL2P_NADUV6OCL_slant_col_den for 25MAR2012 00:00:00 to 26MAR2012 00:00:00 np CIOL2P_NADUV6OCL_err_slant_col for 25MAR2012 00:00:00 to 26MAR2012 00:00:00 np



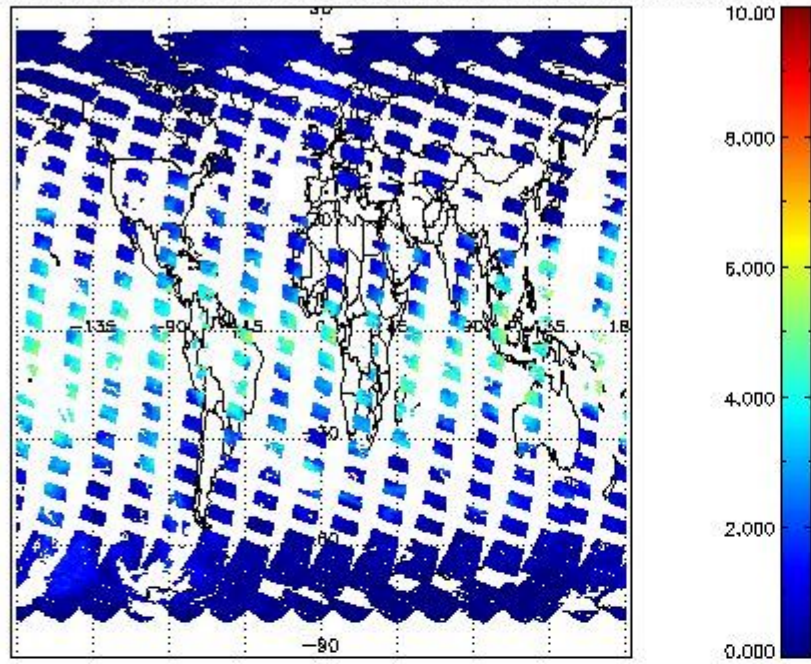
CIOL2P_NADUV6OCL_slant_coLden for 25MAR2012 00:00:00 to 26MAR2012 00:00:00 sp:CIOL2P_NADUV6OCL_err_slant_col for 25MAR2012 00:00:00 to 26MAR2012 00:00:00 sp



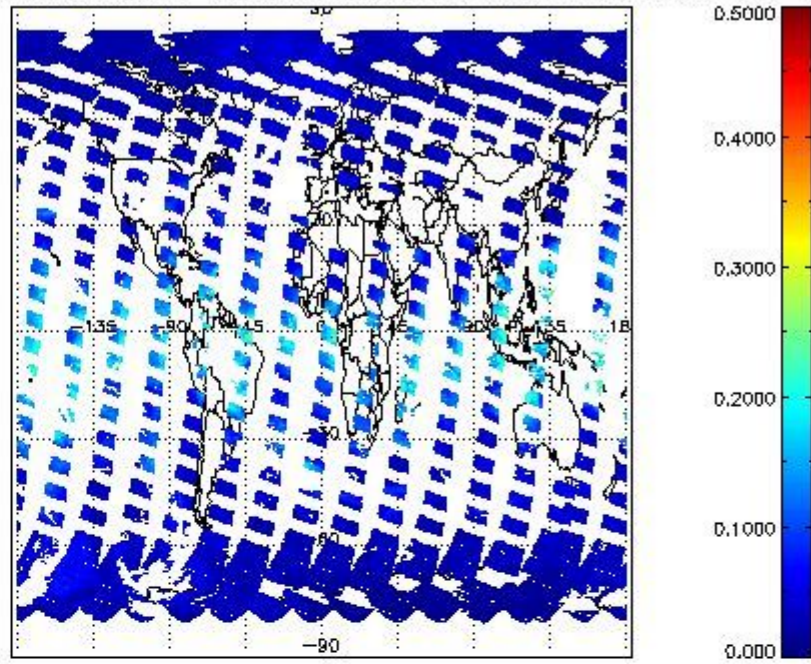
2.2.2.7 H2O (UV8)



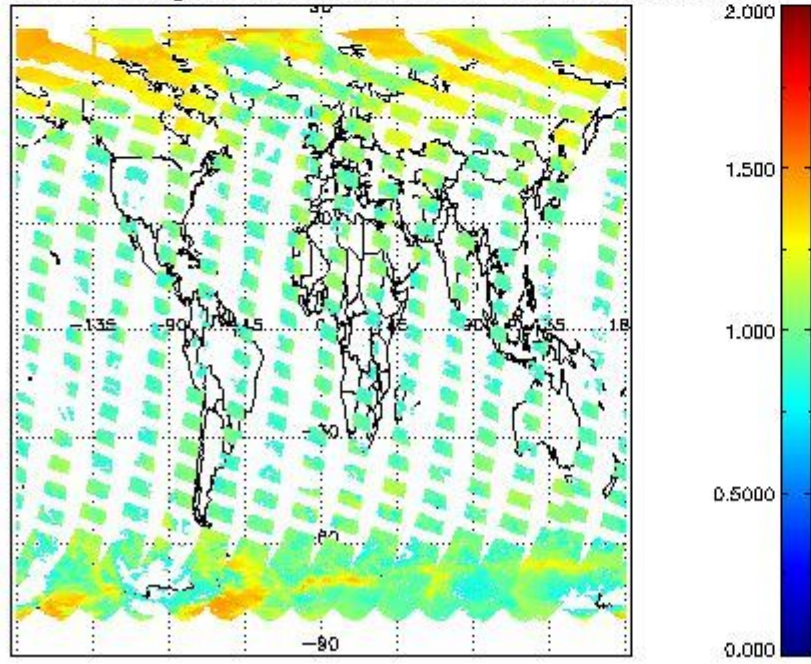
SCIOL2P_NADUV8H2O_vcd for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



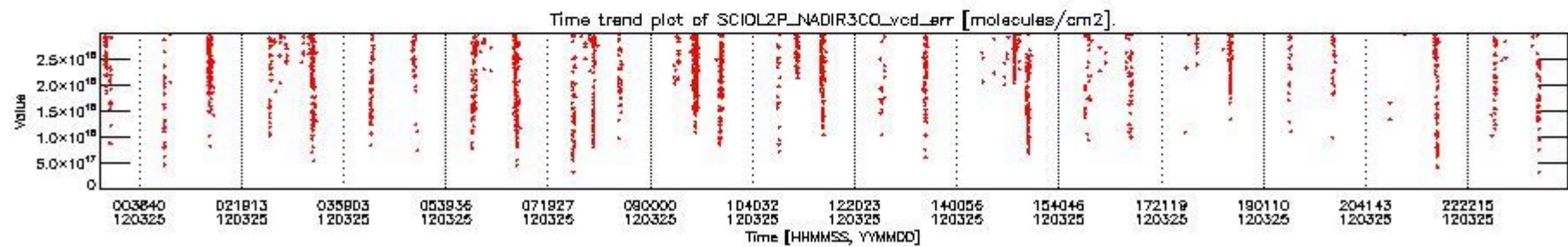
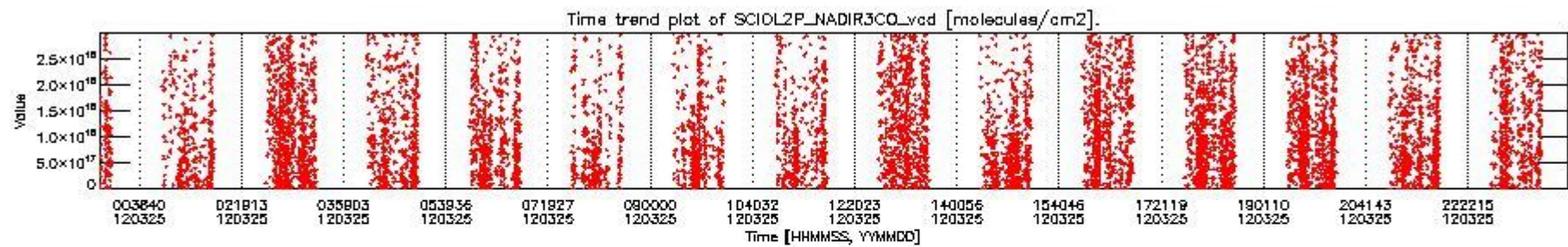
SCIOL2P_NADUV8H2O_vcd_err for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



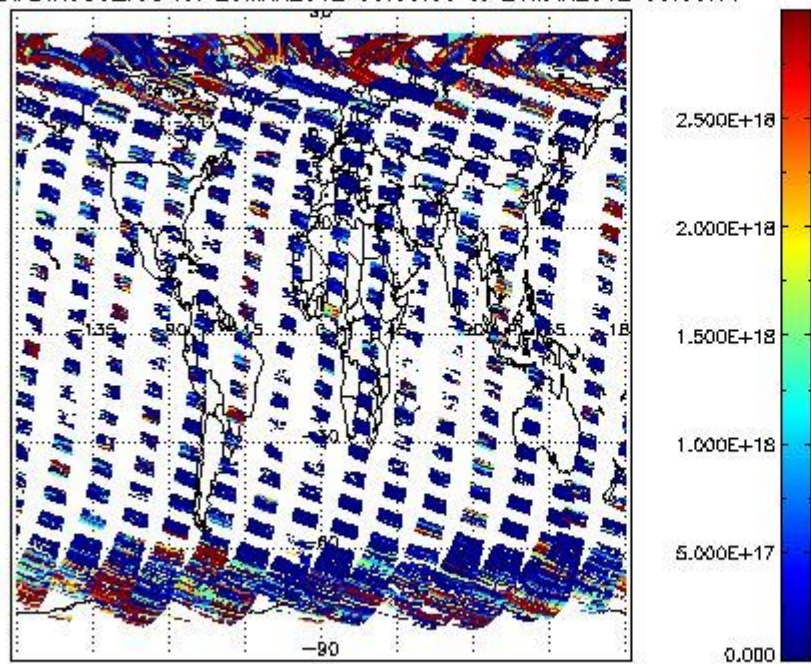
SCIOL2P_NADUV8H2O_arnf_gr for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



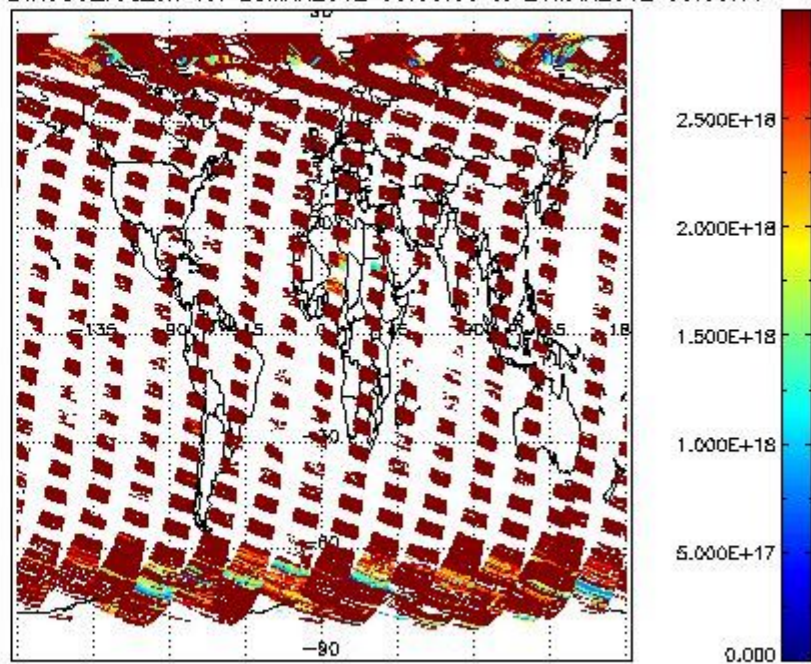
2.2.2.8 CO (IR3)



SCIOL2P_NADIR3CO_vcd for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



SCIOL2P_NADIR3CO_vcd_err for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



2.2.3 Limb

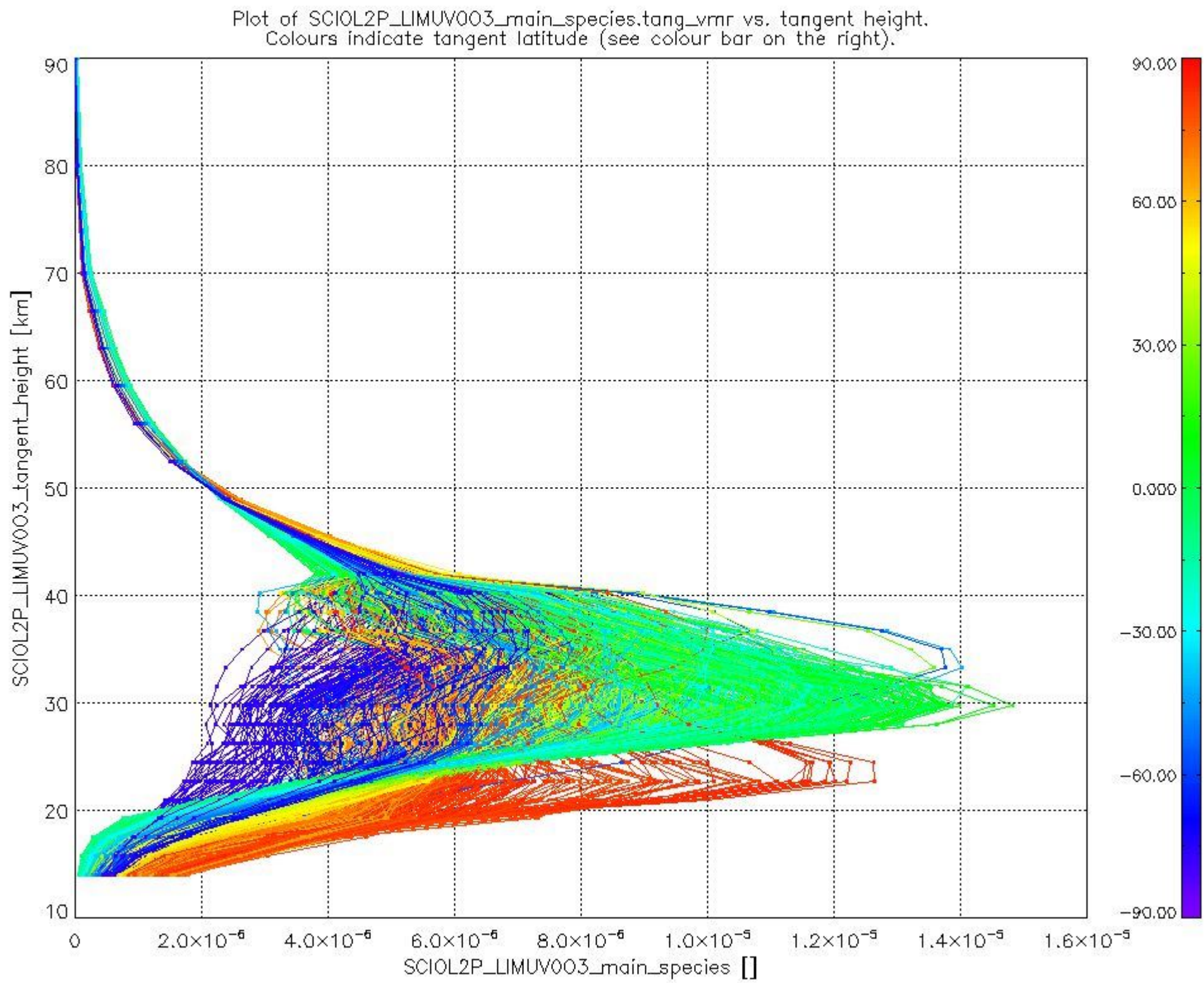
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_LIMUV003_main_species
1	SCIOL2P_LIMUV1NO2_main_species
2	SCIOL2P_LIMUV3BRO_main_species

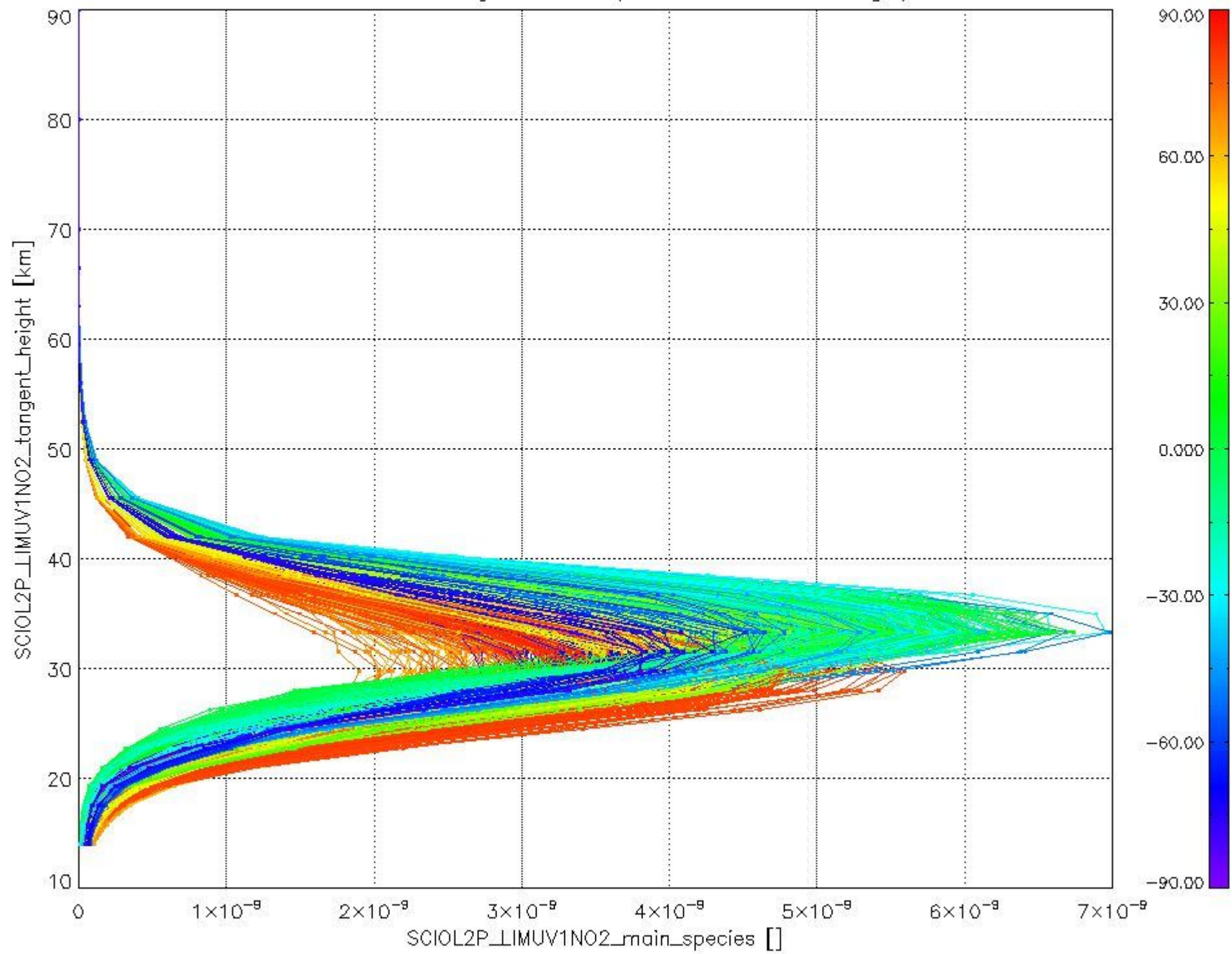
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



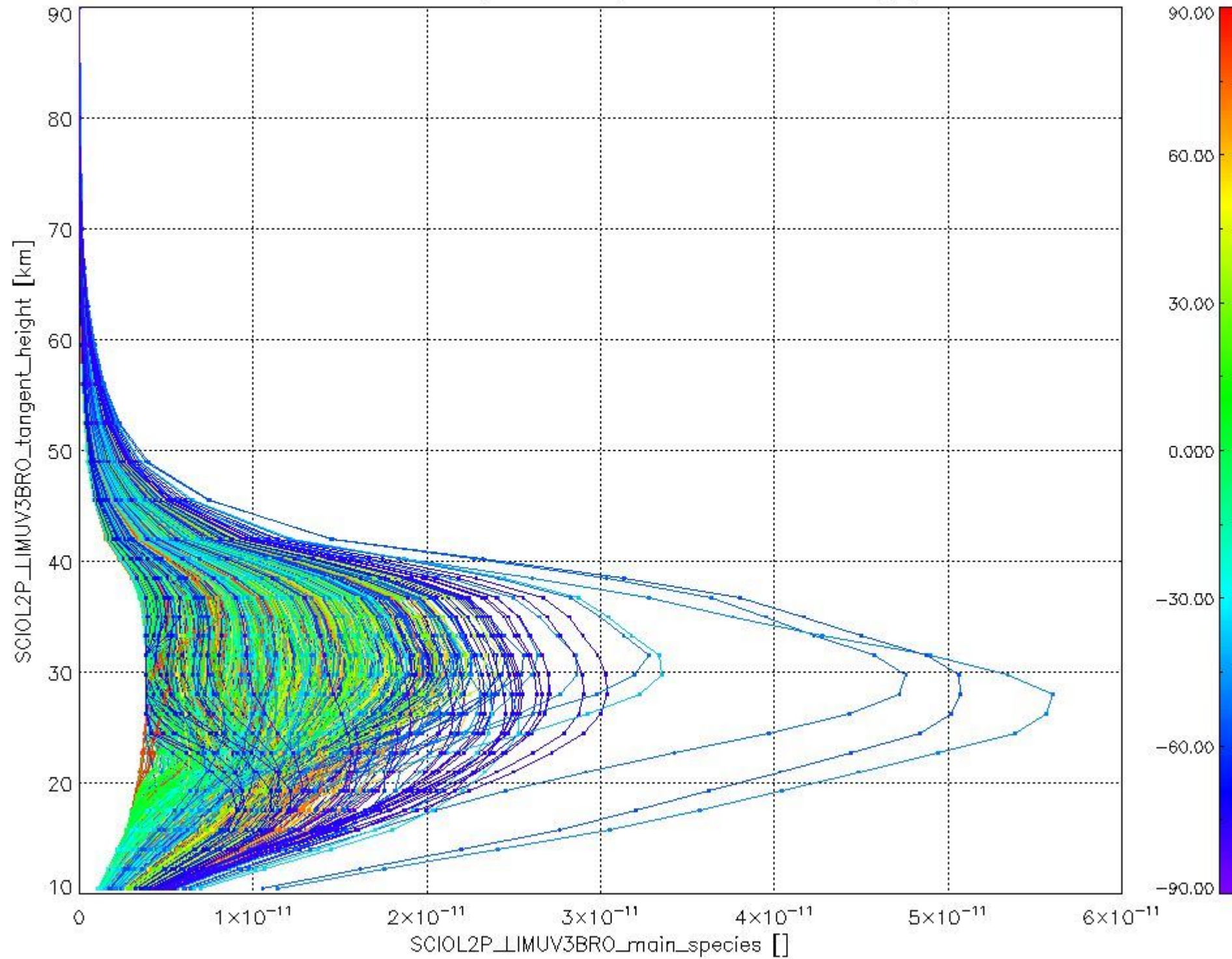
2.2.3.2 NO2 (UV1)

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)

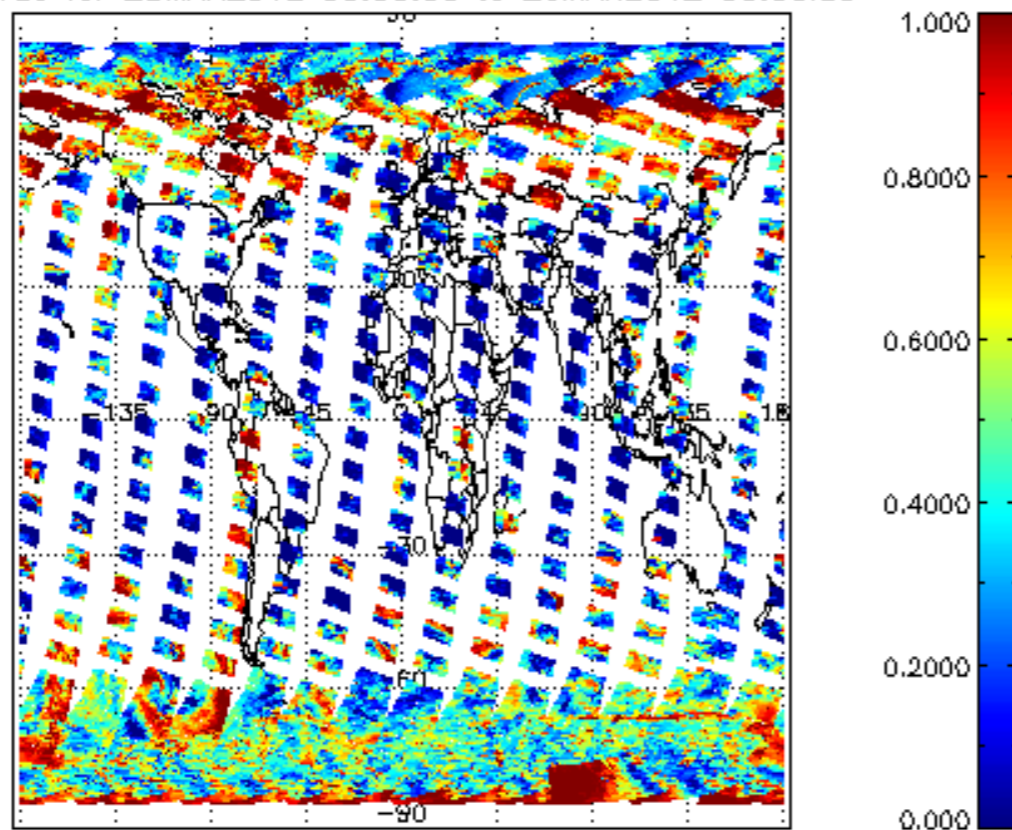
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



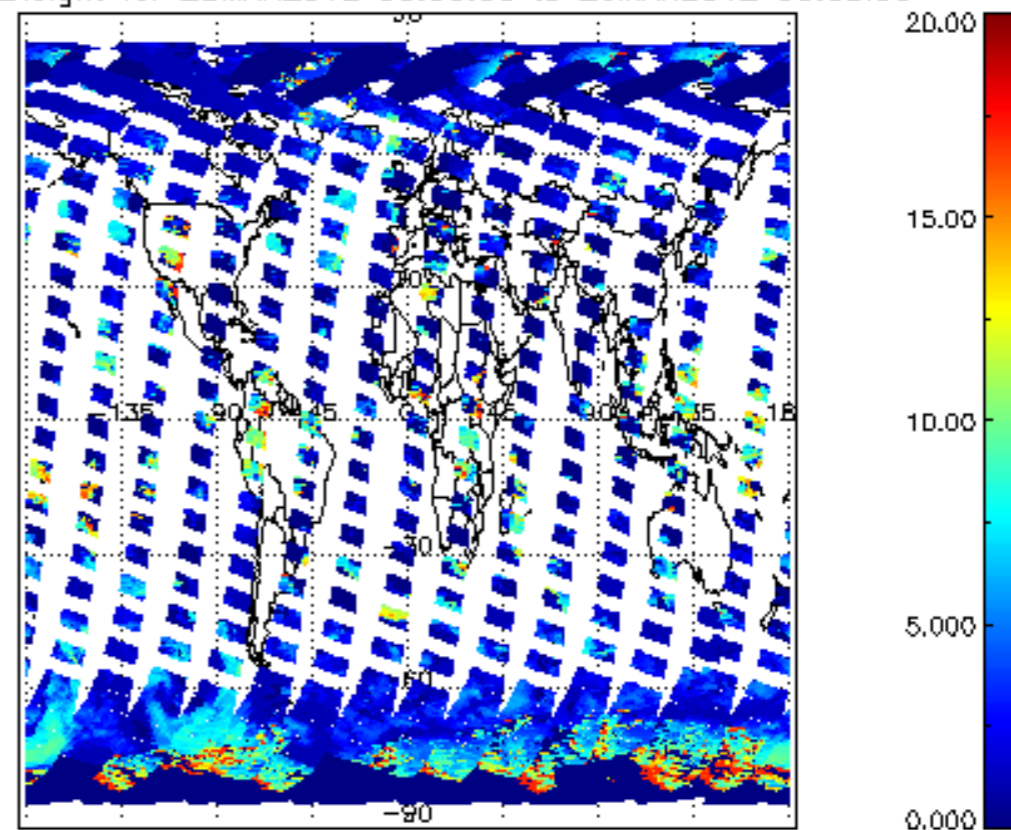
2.3 ADF monitoring

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_AXVIEC20120327_133004_20120324_191936_20120326_191936
3	SCI_MF1_AXVIEC20120327_133010_20120325_184250_20120327_184250

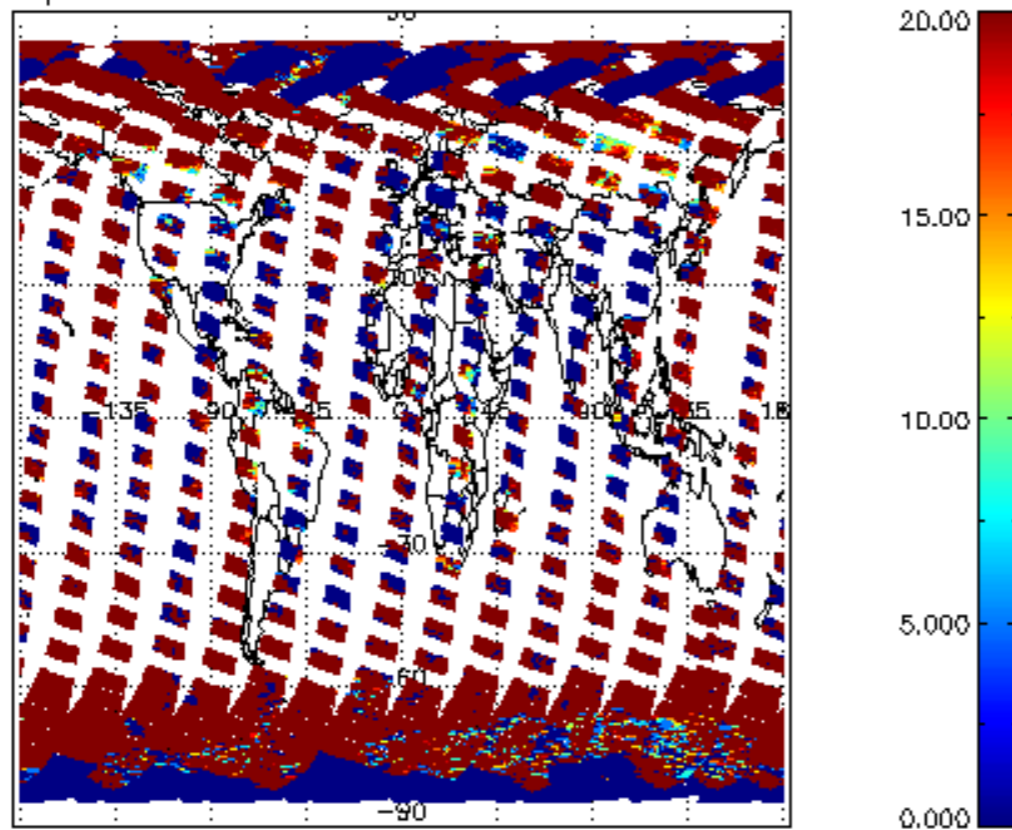
cL_frac for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



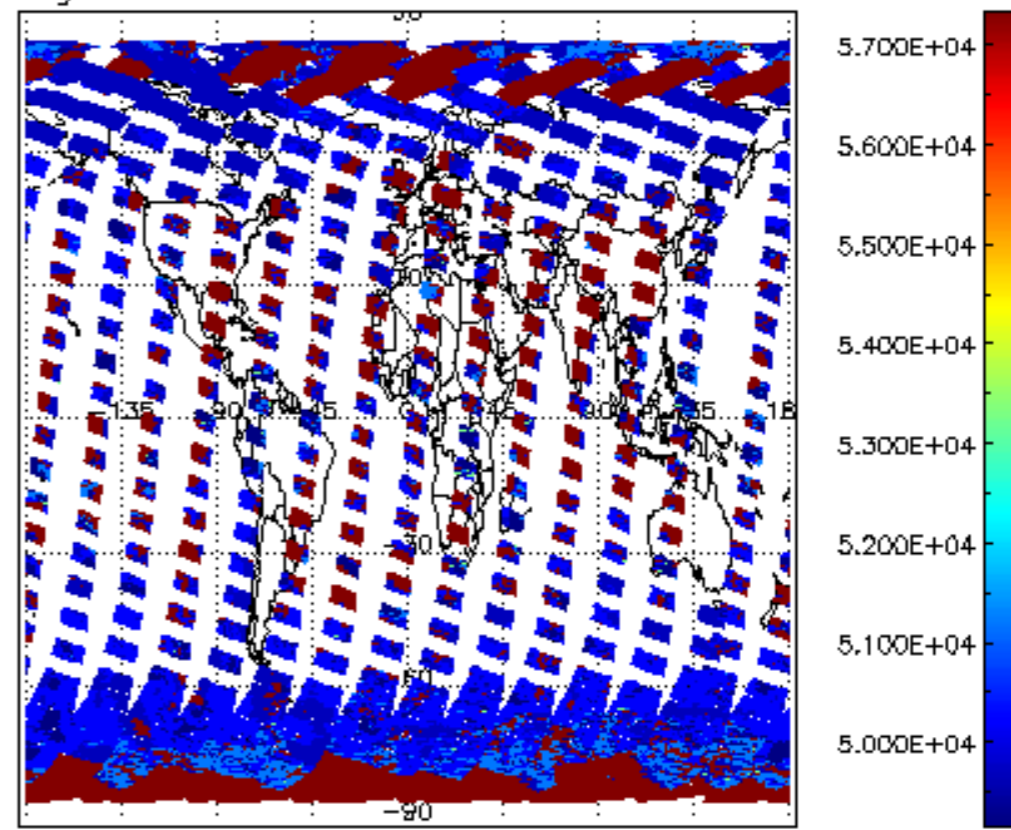
cL_top_height for 25MAR2012 00:00:00 to 26MAR2012 00:00:00

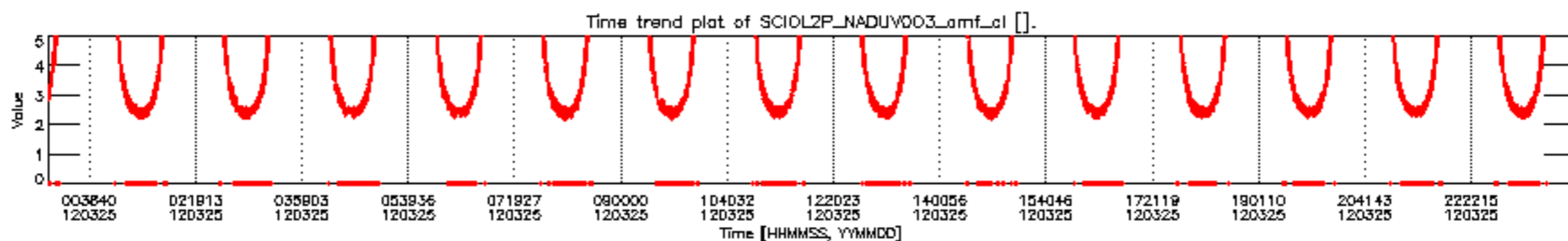
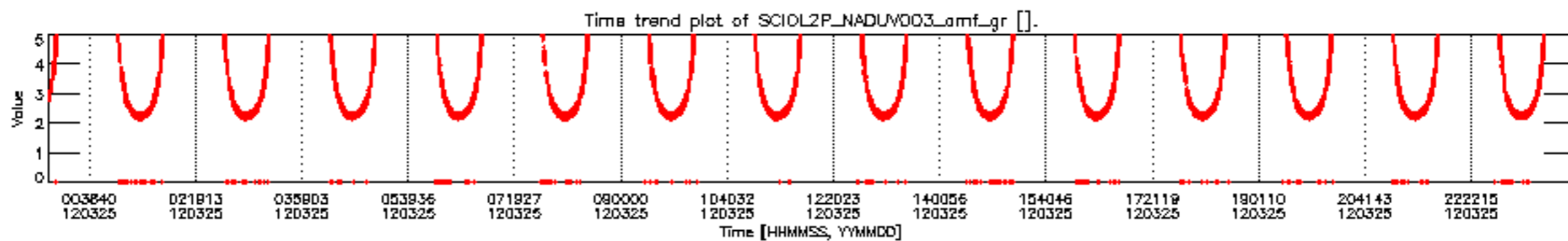
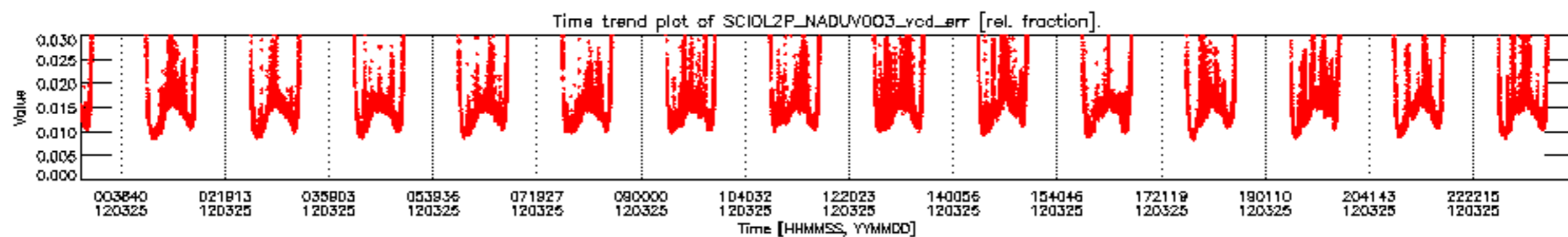
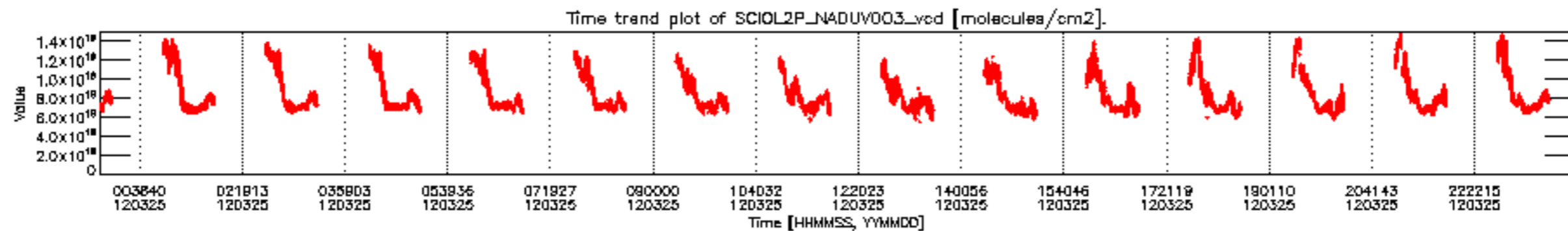


cL_opt_depth for 25MAR2012 00:00:00 to 26MAR2012 00:00:00

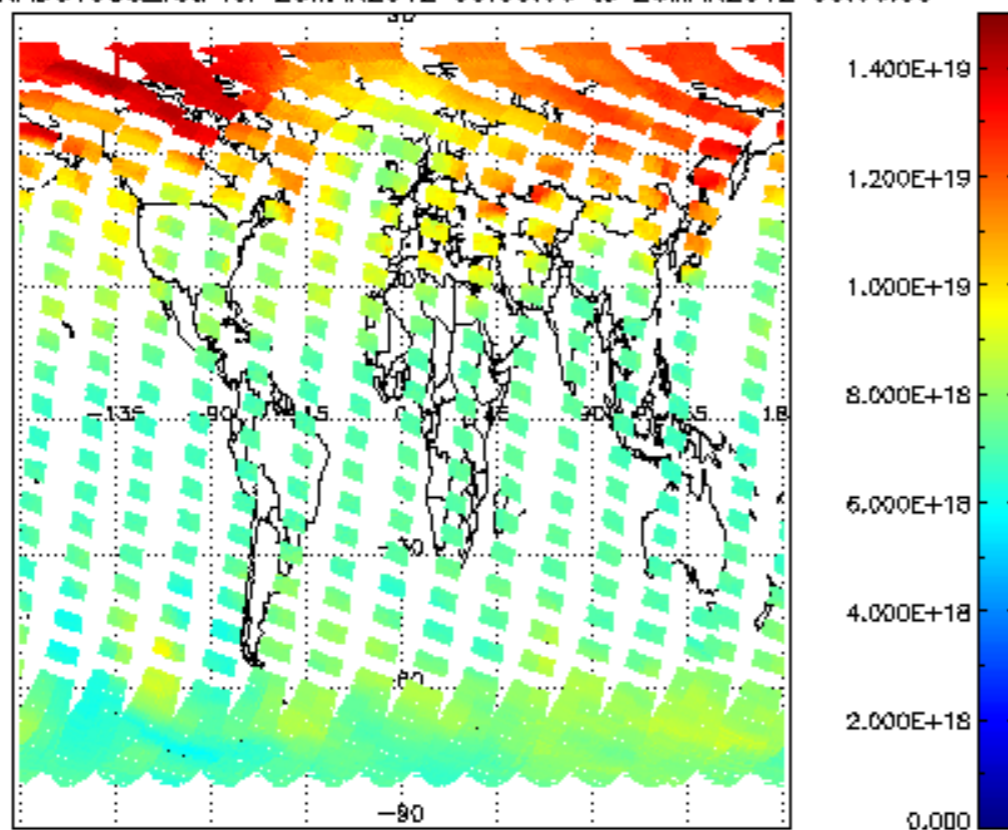


cloud_flags for 25MAR2012 00:00:00 to 26MAR2012 00:00:00

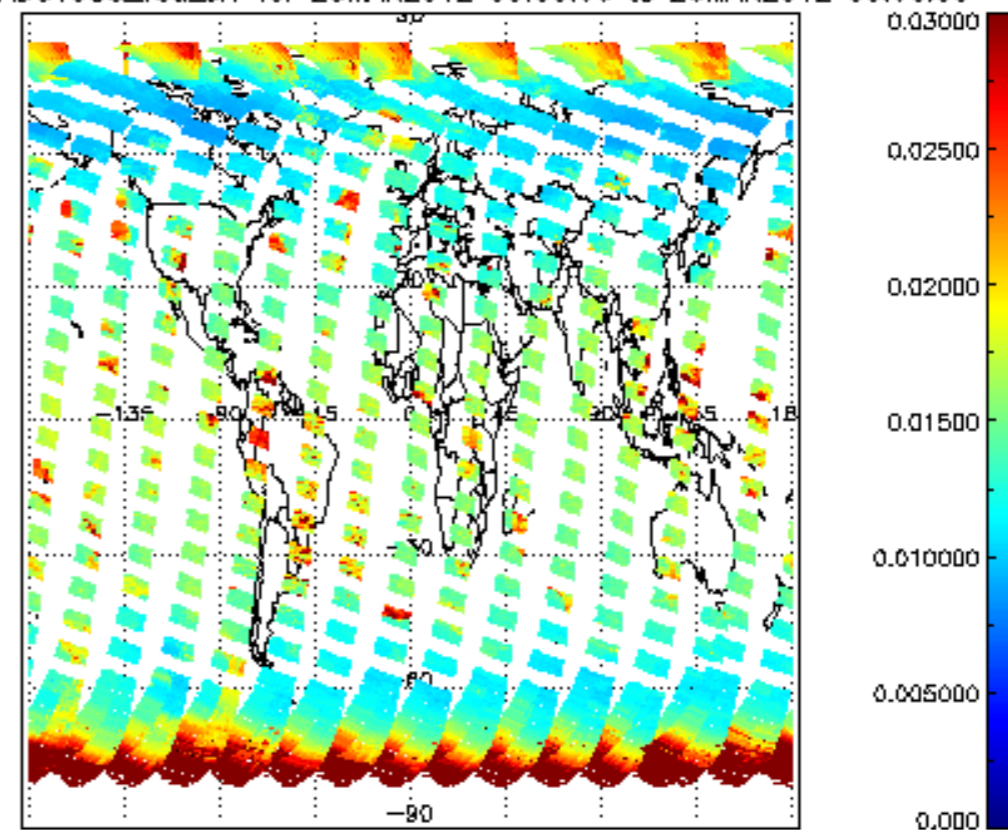




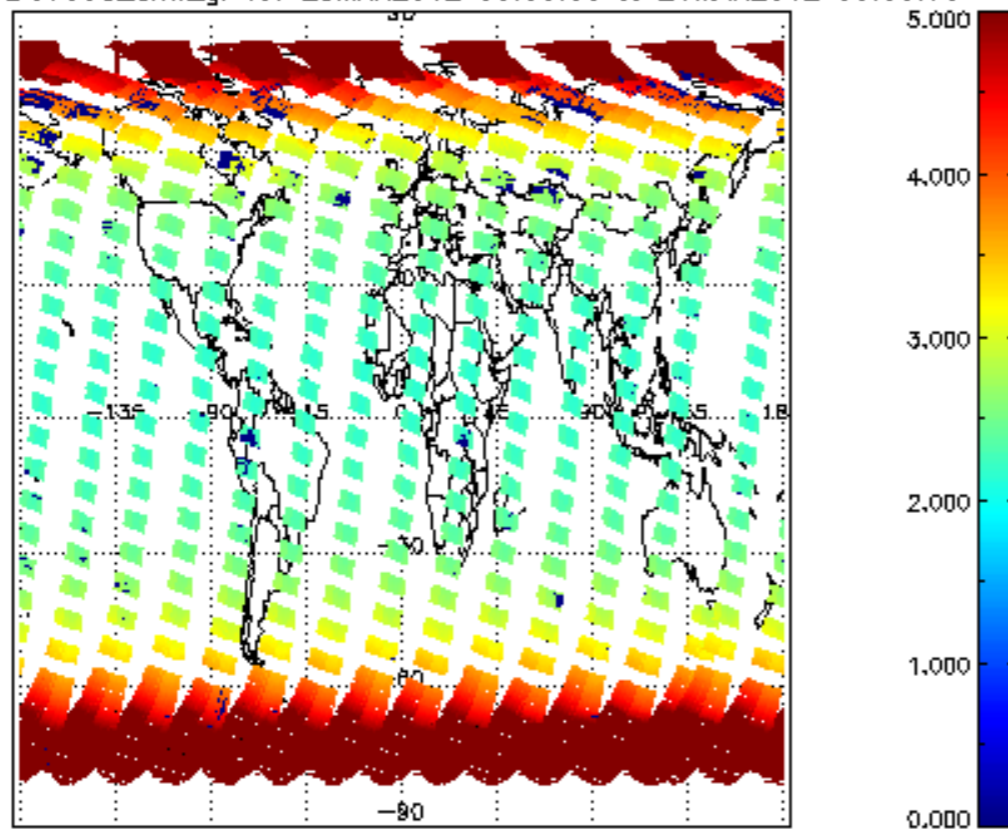
SCIOL2P_NADUV003_vcd for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



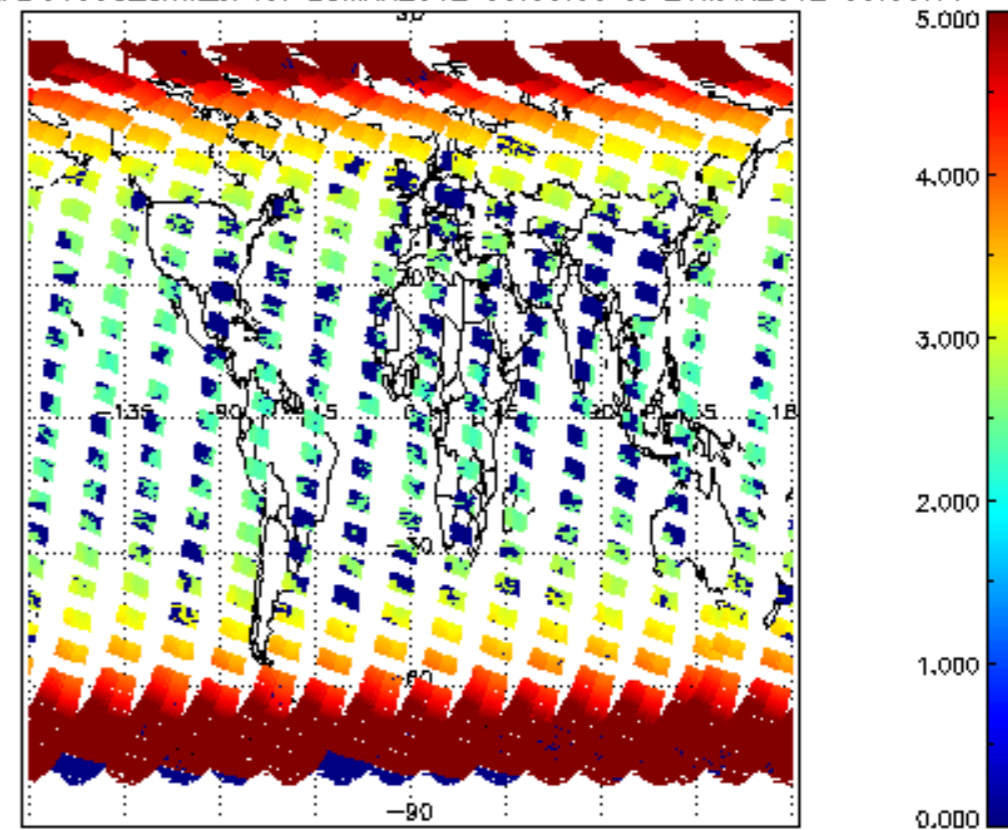
SCIOL2P_NADUV003_vcd_err for 25MAR2012 00:00:00 to 26MAR2012 00:00:00

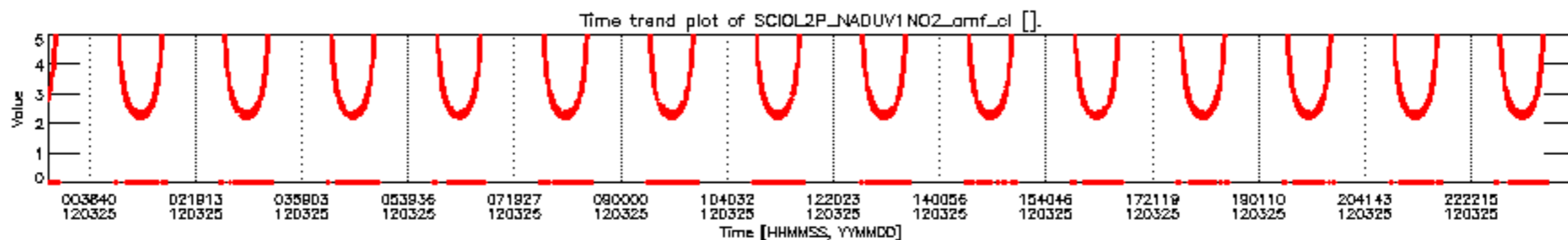
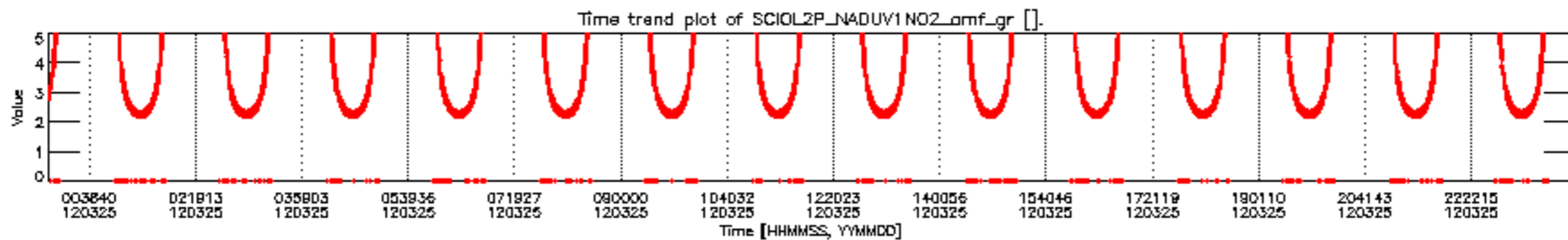
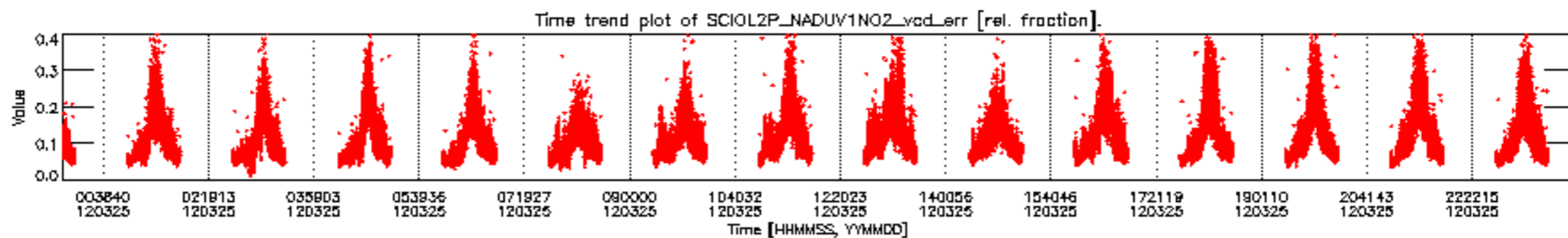
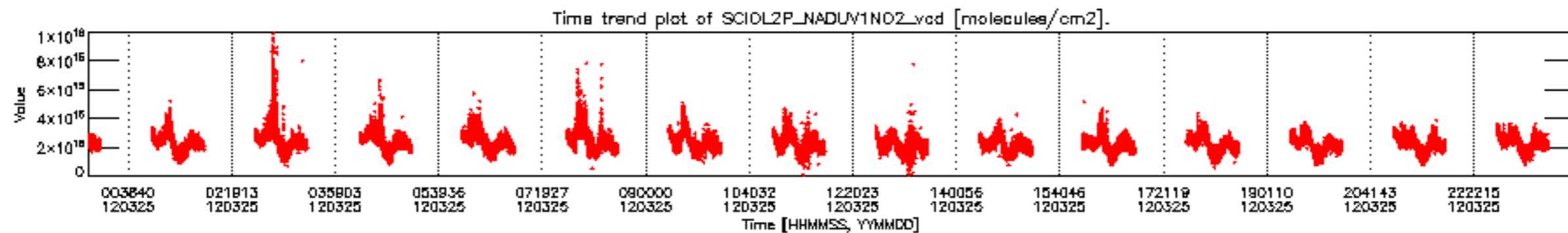


SCIOL2P_NADUV003_arnf_gr for 25MAR2012 00:00:00 to 26MAR2012 00:00:00

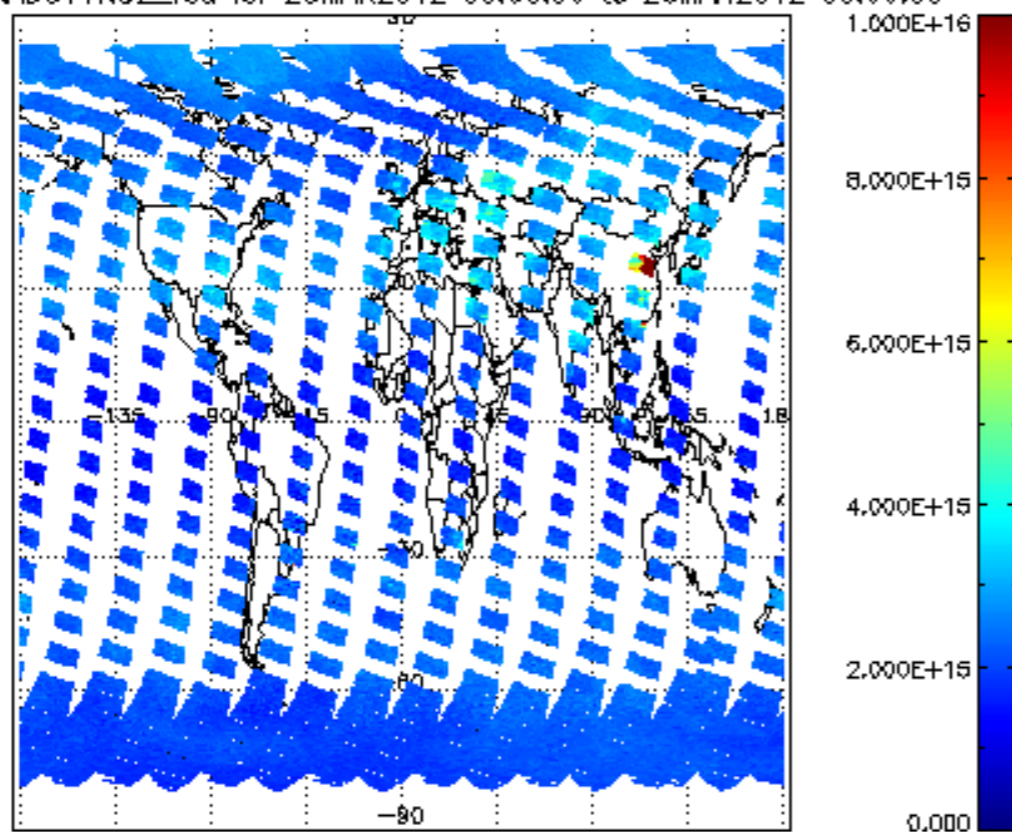


SCIOL2P_NADUV003_arnf_cl for 25MAR2012 00:00:00 to 26MAR2012 00:00:00

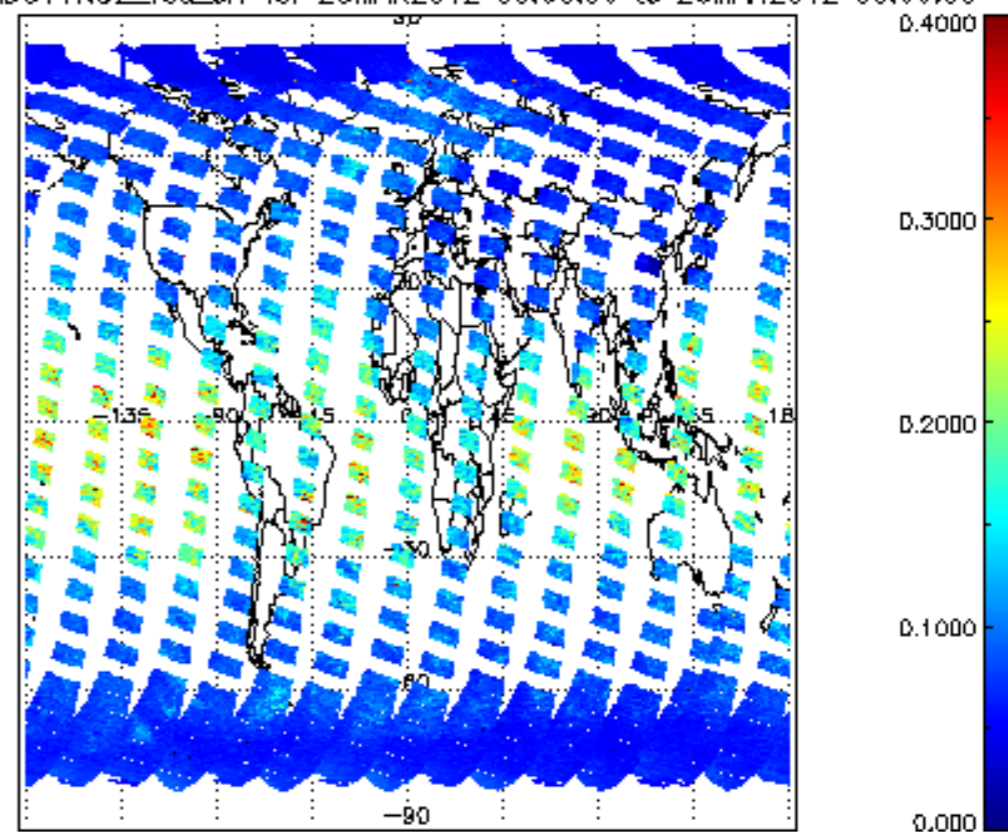




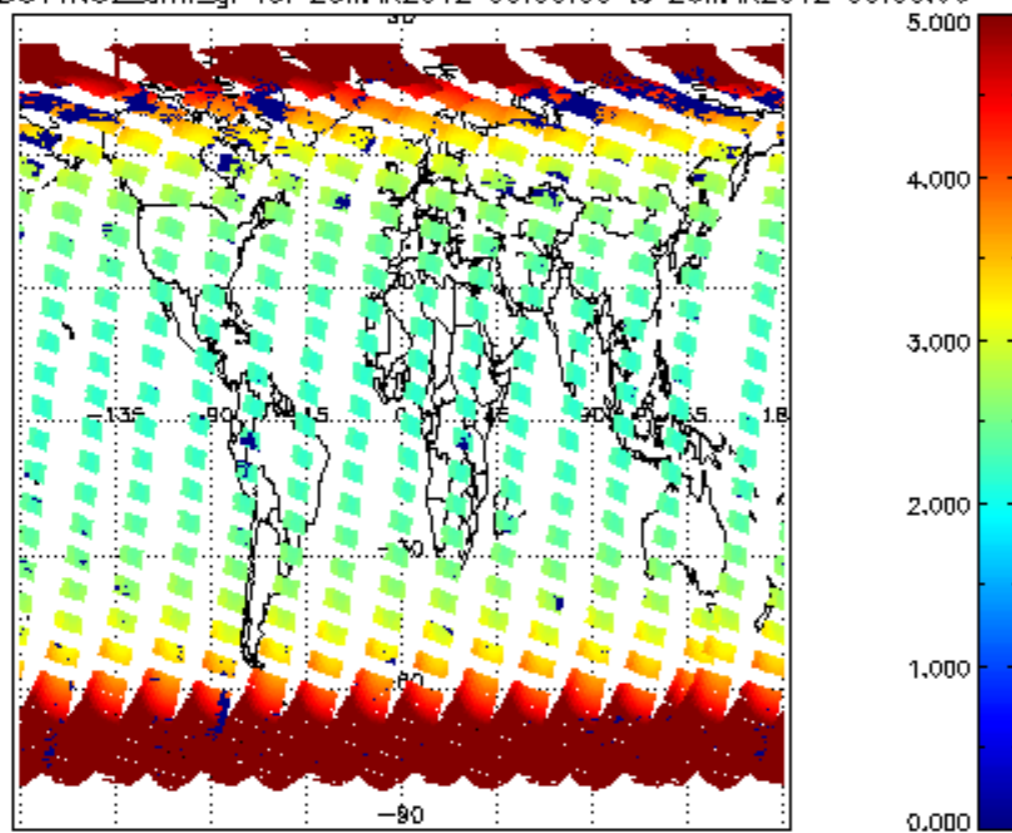
SCIOL2P_NADUV1NO2_vcd for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



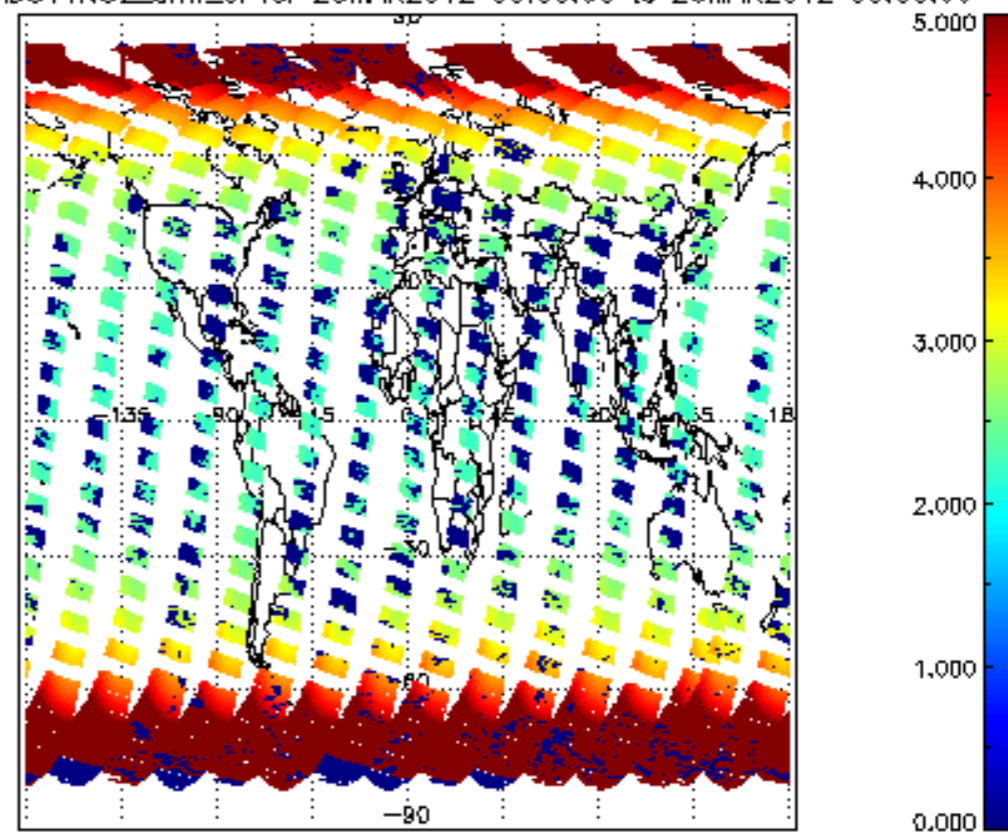
SCIOL2P_NADUV1NO2_vcd_err for 25MAR2012 00:00:00 to 26MAR2012 00:00:00

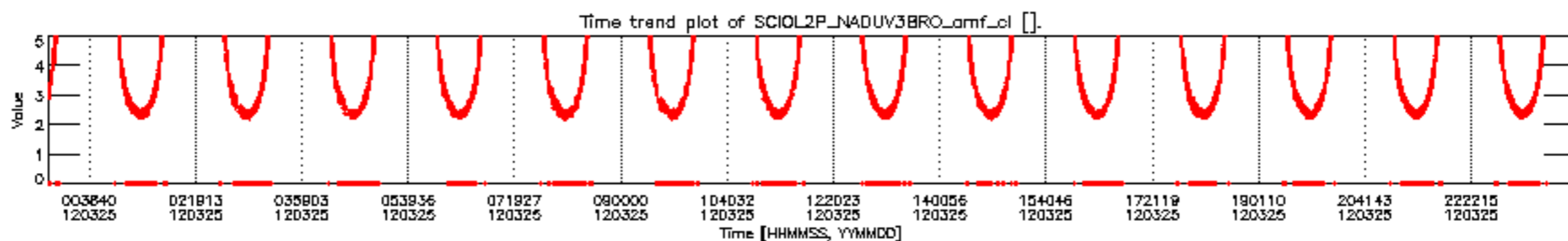
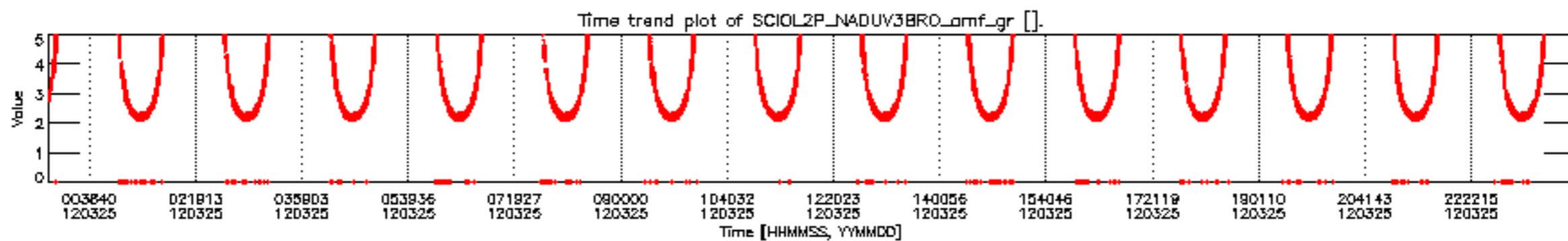
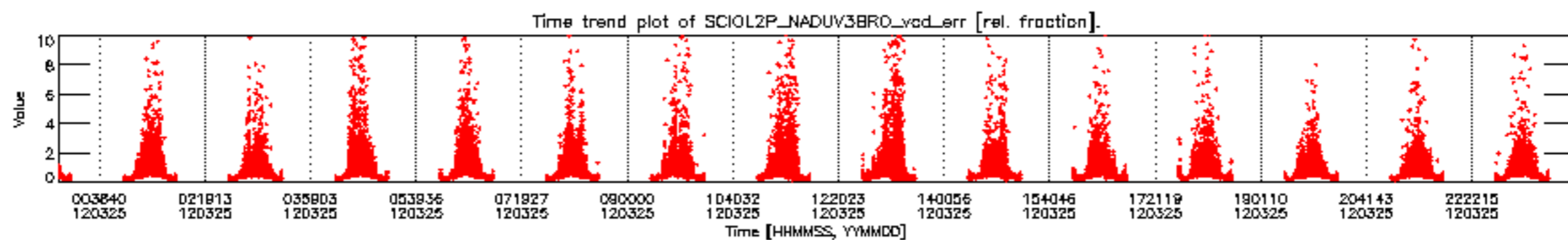
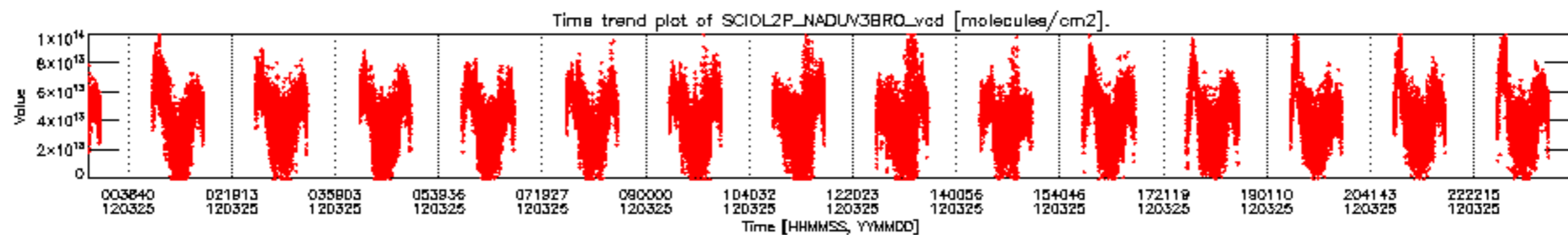


SCIOL2P_NADUV1NO2_amf_gr for 25MAR2012 00:00:00 to 26MAR2012 00:00:00

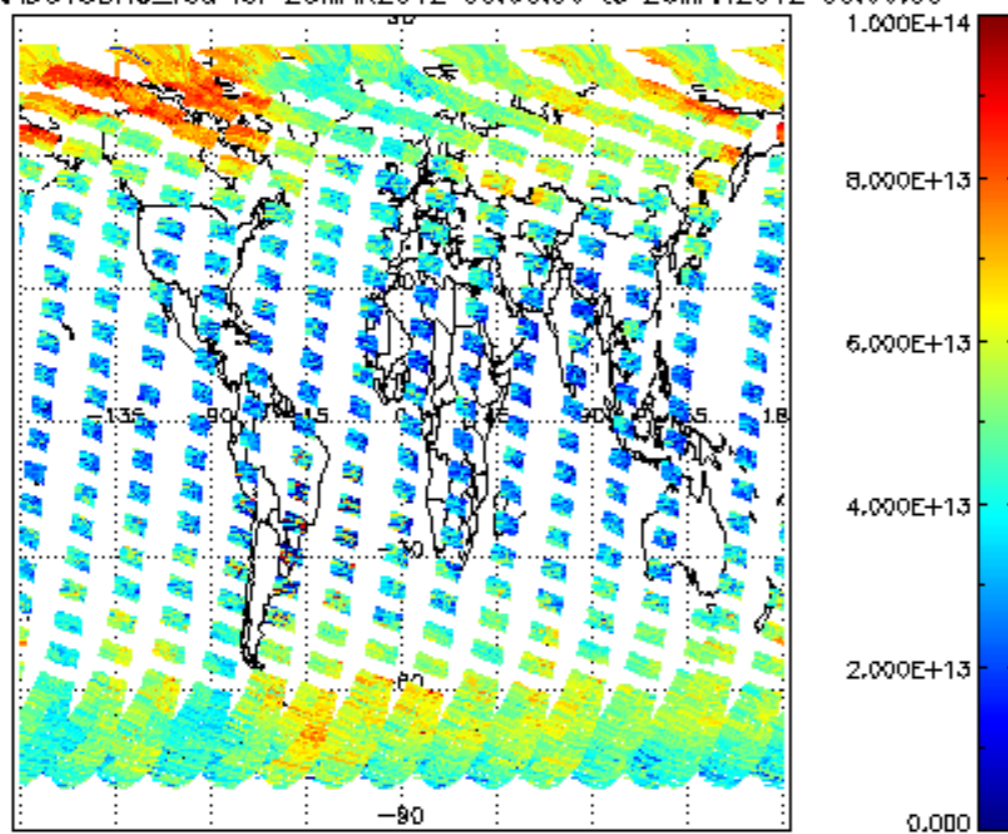


SCIOL2P_NADUV1NO2_amf_cl for 25MAR2012 00:00:00 to 26MAR2012 00:00:00

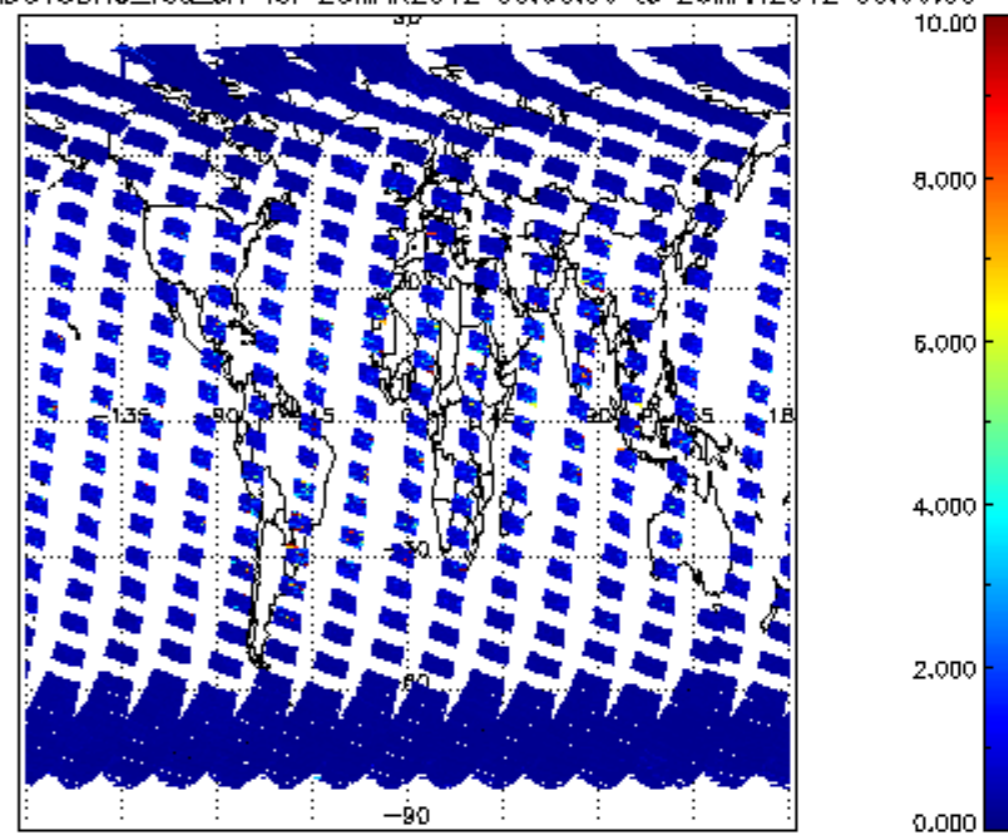




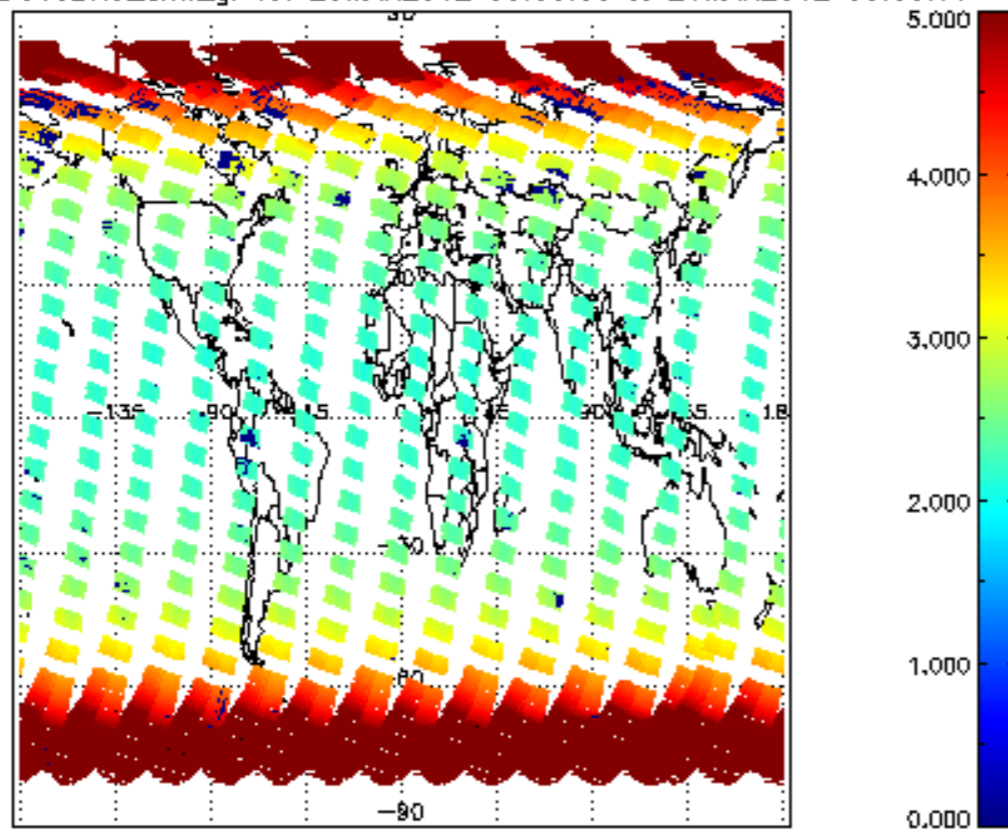
SCIOL2P_NADUV3BRO_vcd for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



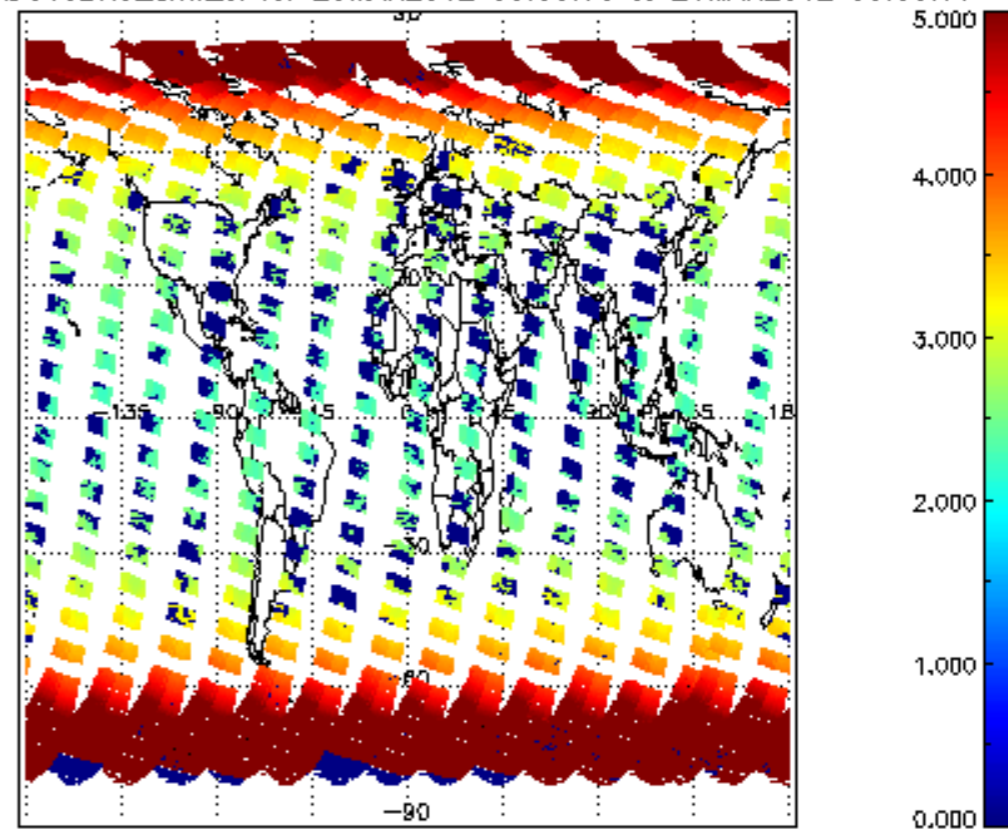
SCIOL2P_NADUV3BRO_vcd_err for 25MAR2012 00:00:00 to 26MAR2012 00:00:00

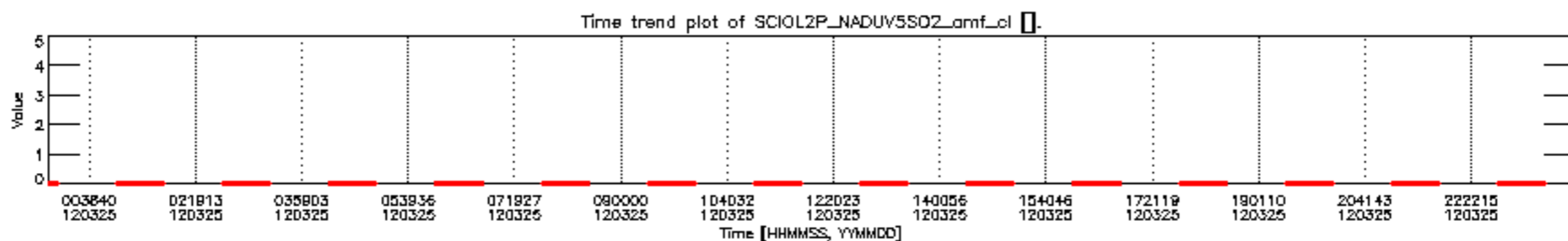
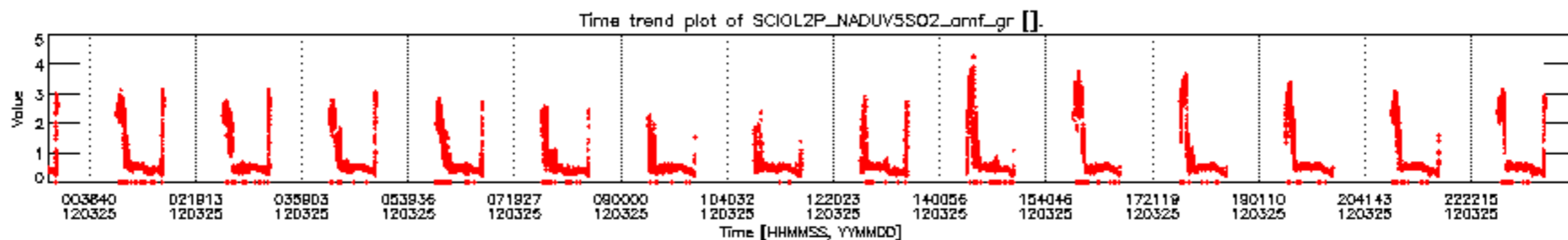
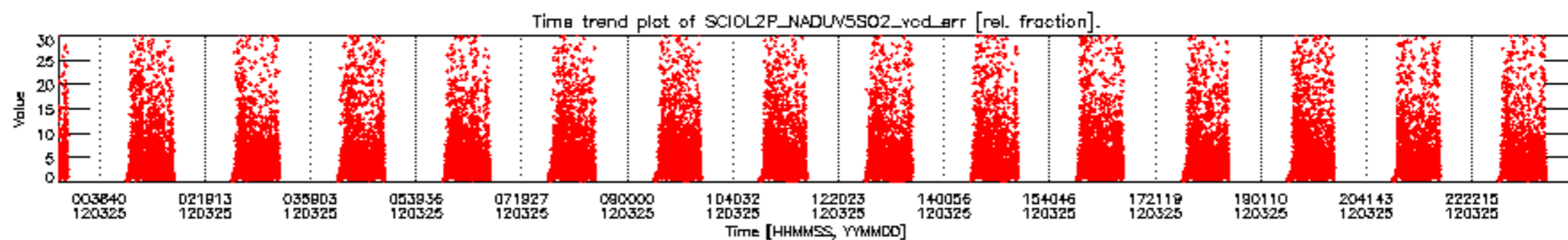
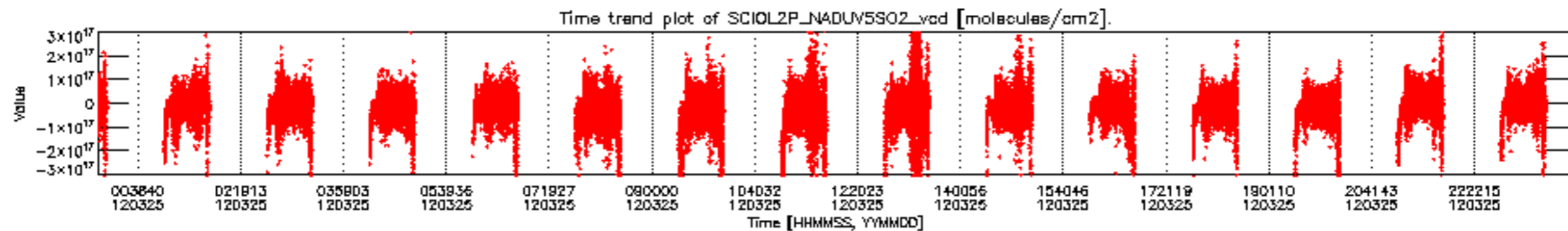


SCIOL2P_NADUV3BRO_amf_gr for 25MAR2012 00:00:00 to 26MAR2012 00:00:00

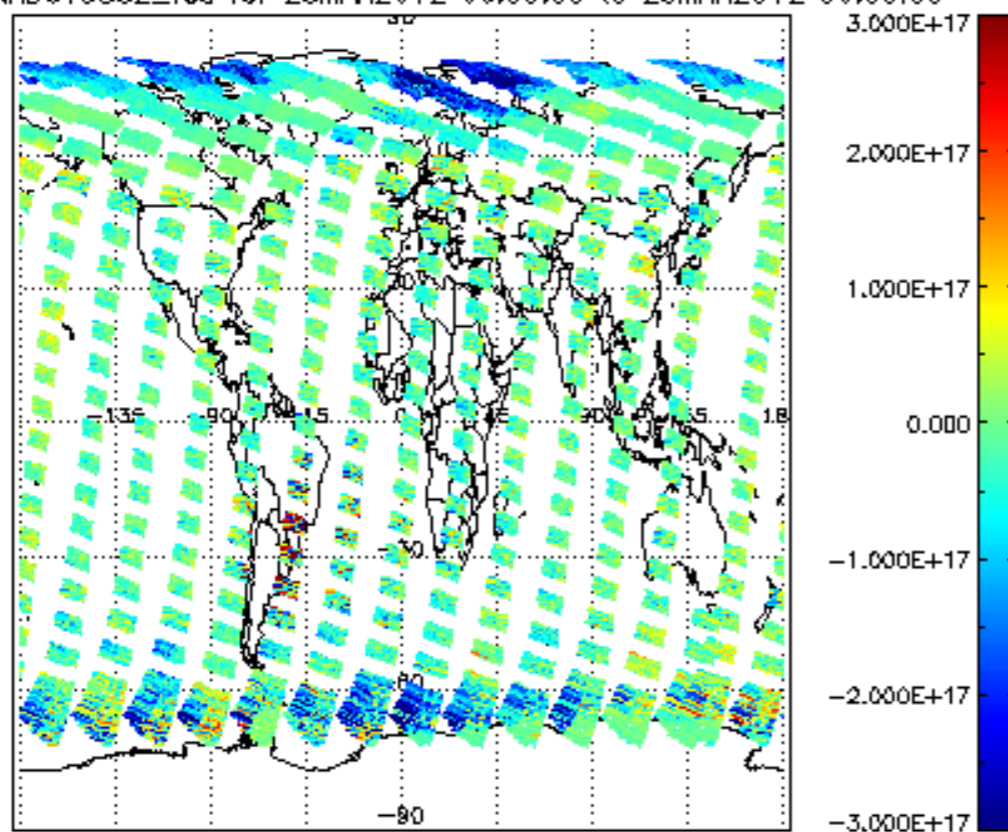


SCIOL2P_NADUV3BRO_amf_cl for 25MAR2012 00:00:00 to 26MAR2012 00:00:00

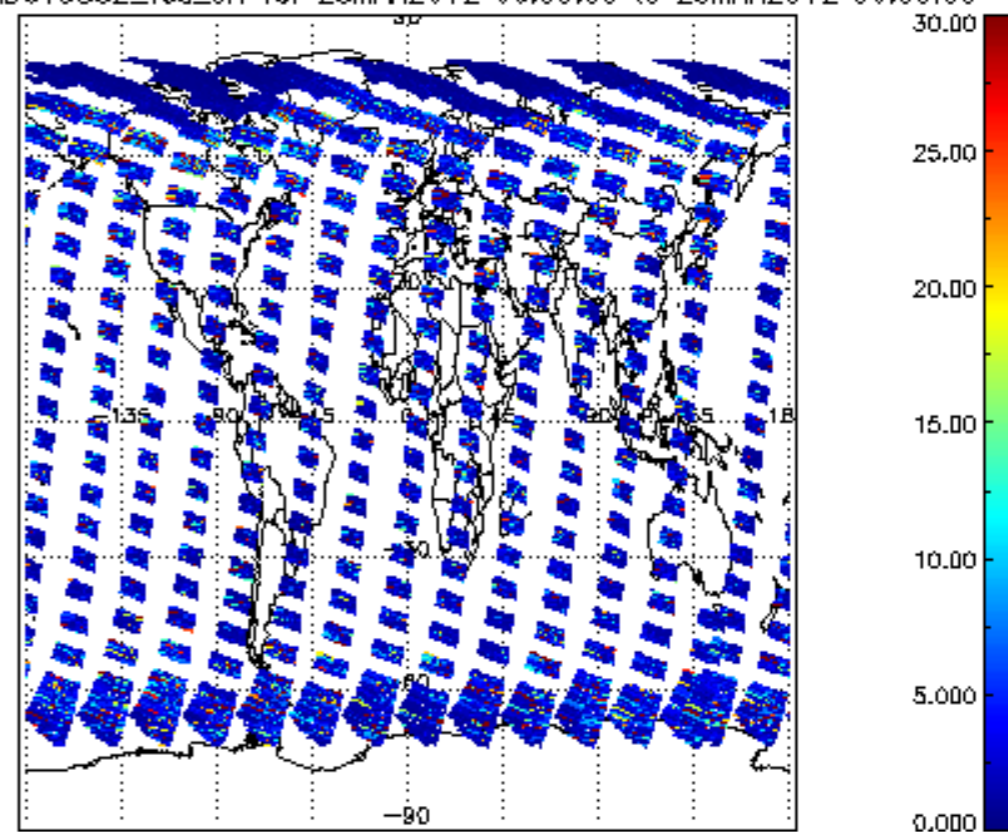




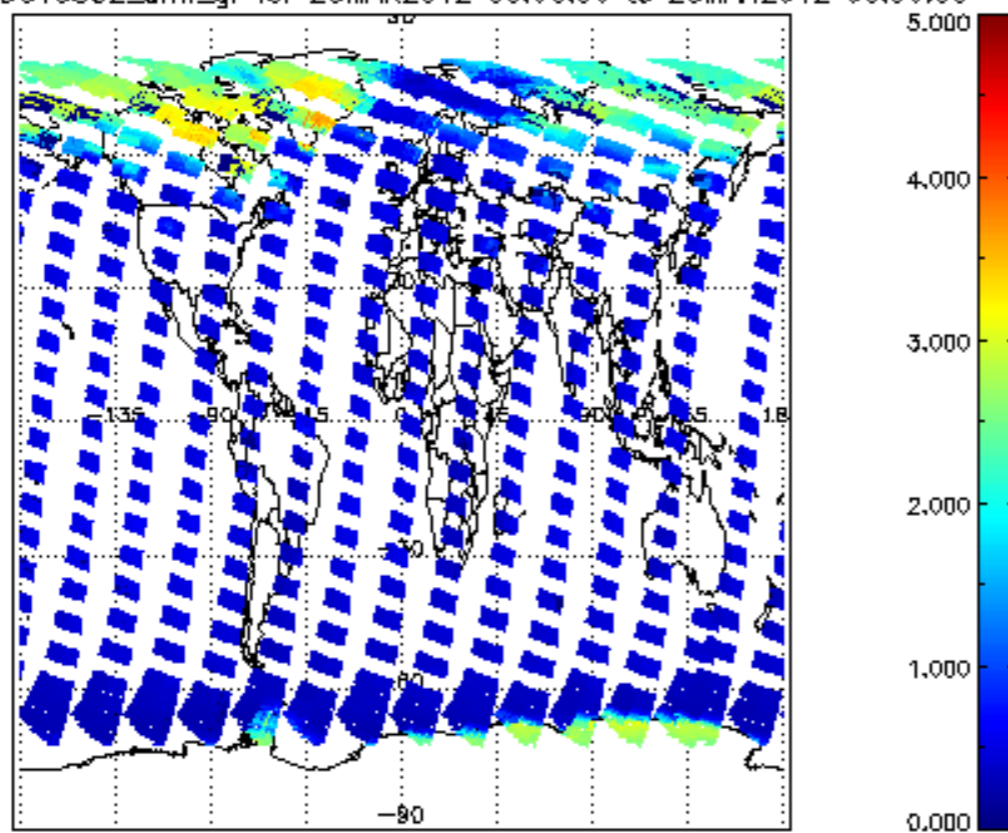
SCIOL2P_NADUV5S02_vcd for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



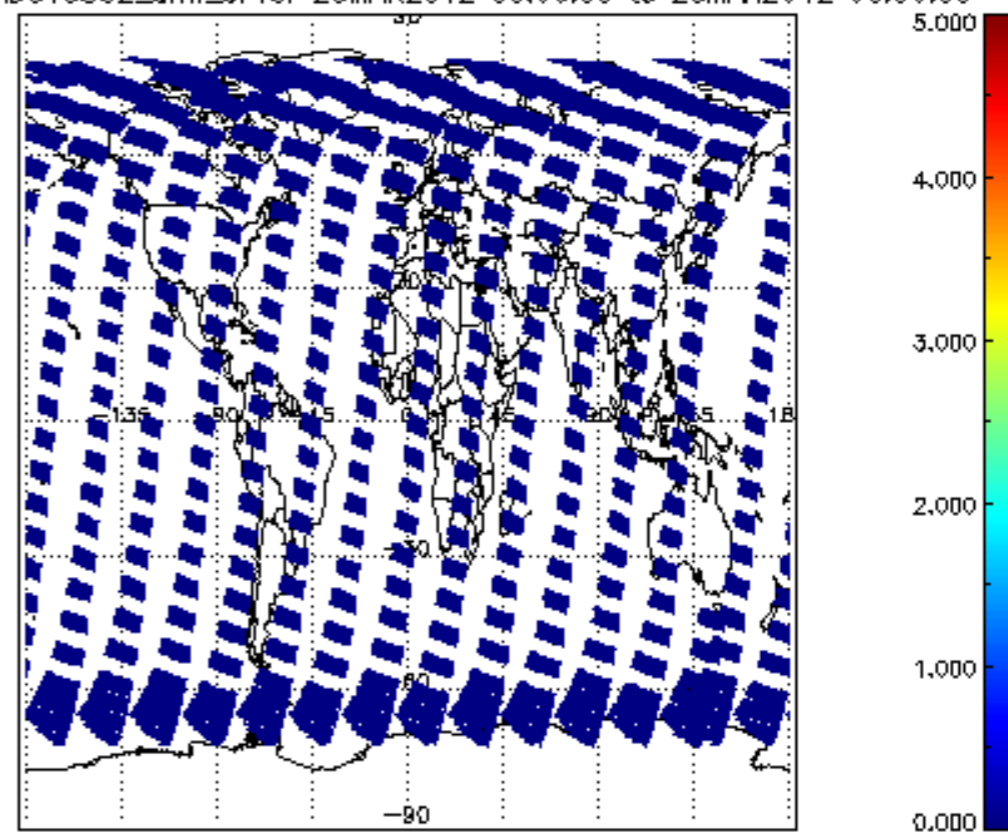
SCIOL2P_NADUV5S02_vcd_err for 25MAR2012 00:00:00 to 26MAR2012 00:00:00

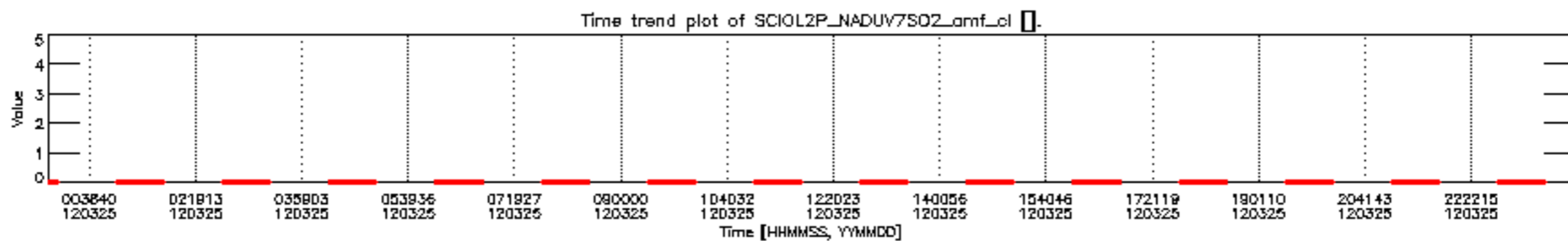
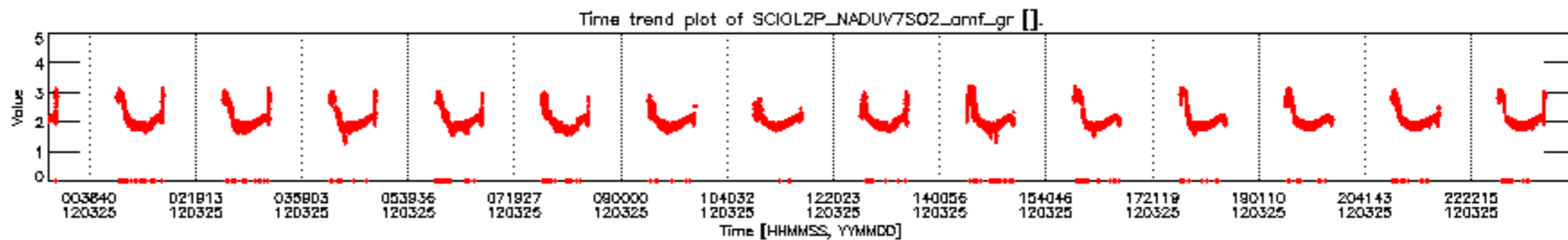
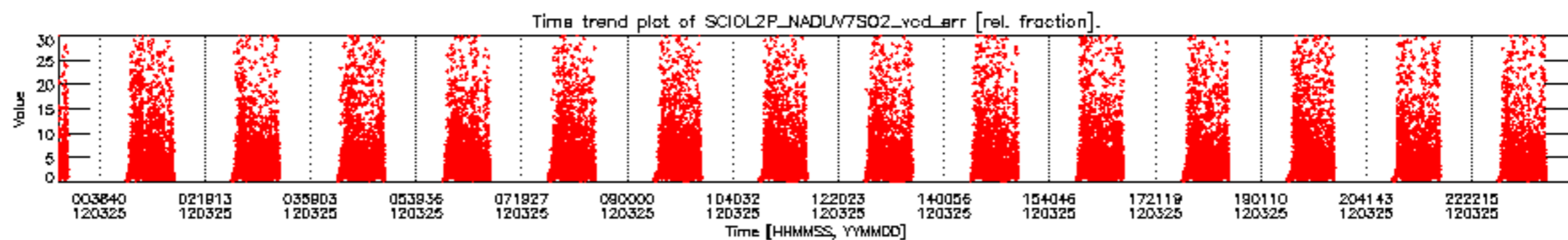
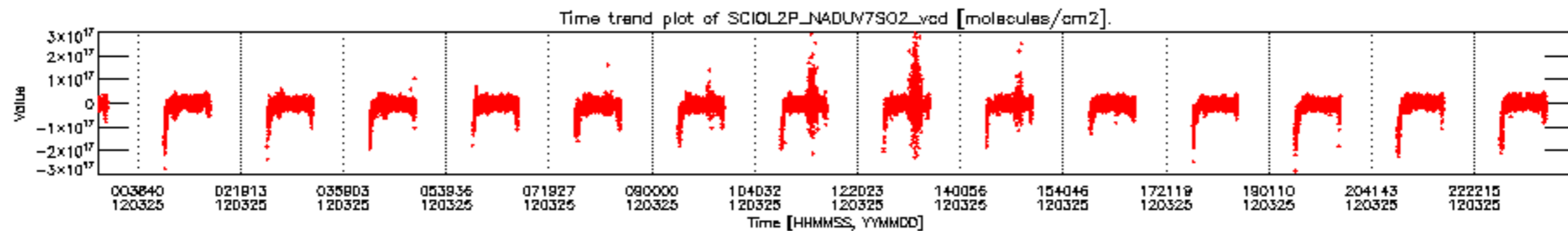


SCIOL2P_NADUV5S02_amf_gr for 25MAR2012 00:00:00 to 26MAR2012 00:00:00

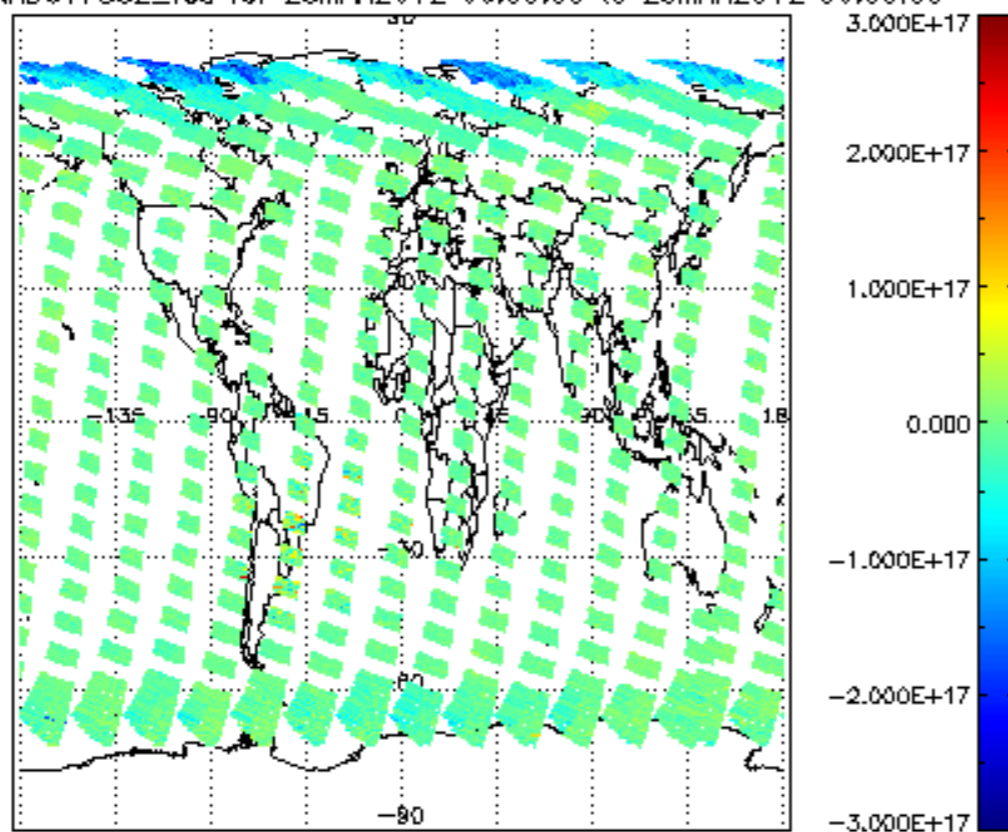


SCIOL2P_NADUV5S02_amf_cl for 25MAR2012 00:00:00 to 26MAR2012 00:00:00

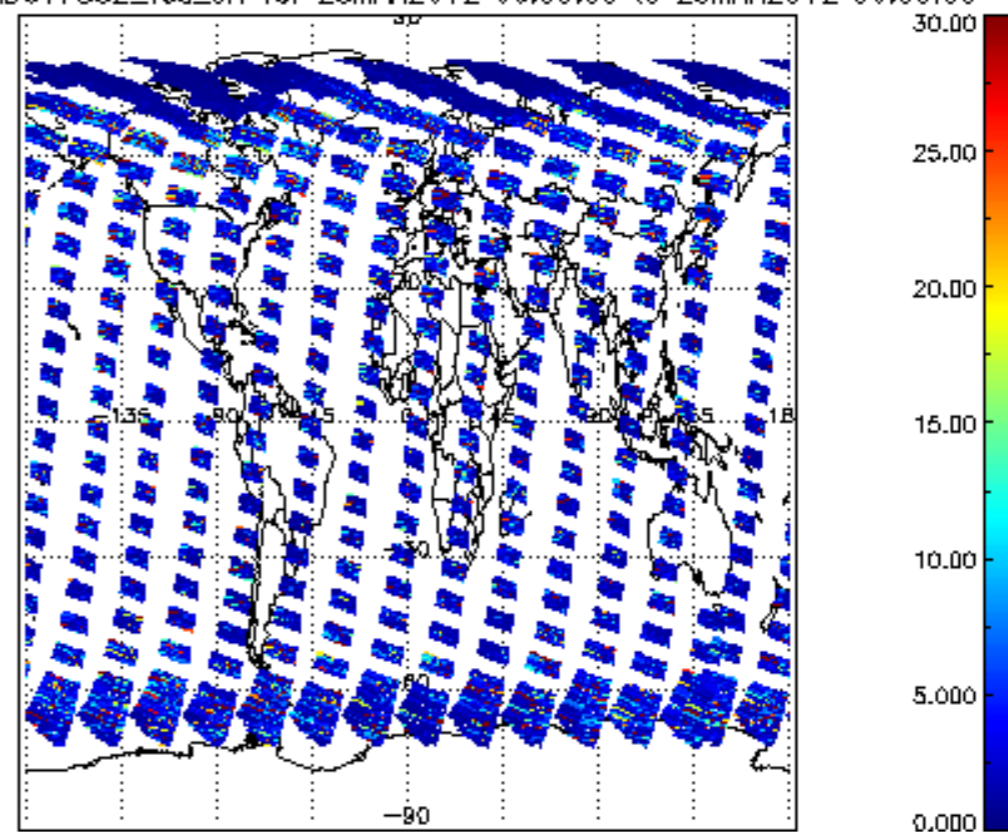




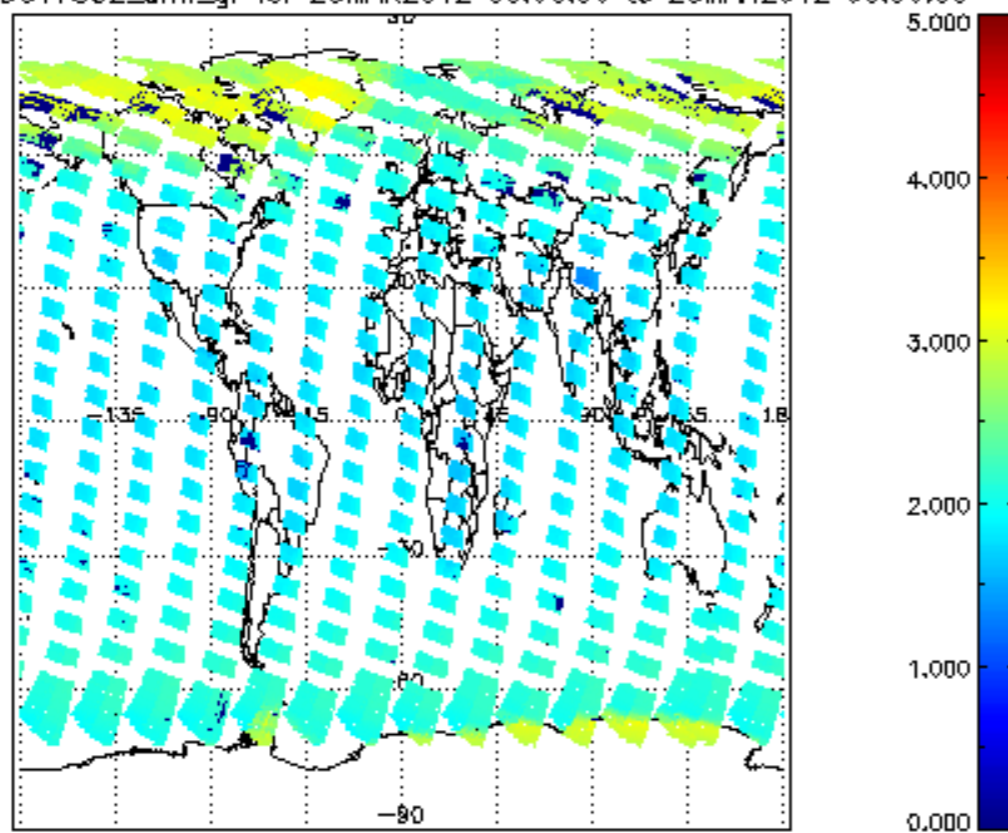
SCIOL2P_NADUV7S02_vcd for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



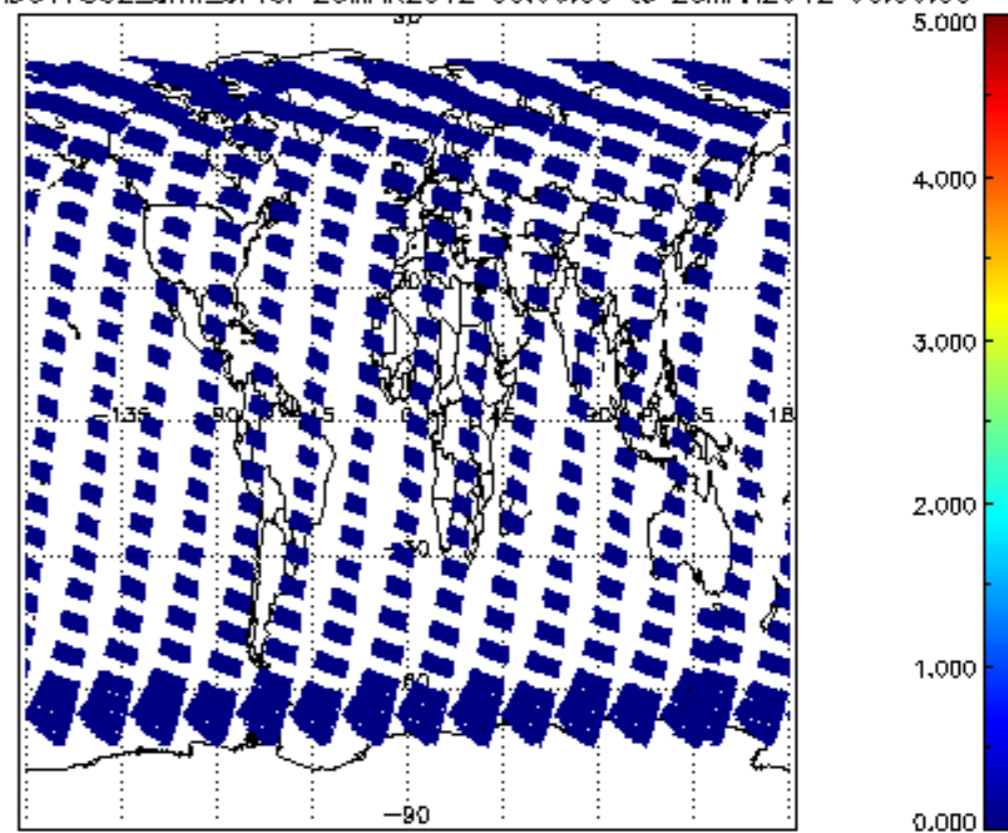
SCIOL2P_NADUV7S02_vcd_err for 25MAR2012 00:00:00 to 26MAR2012 00:00:00

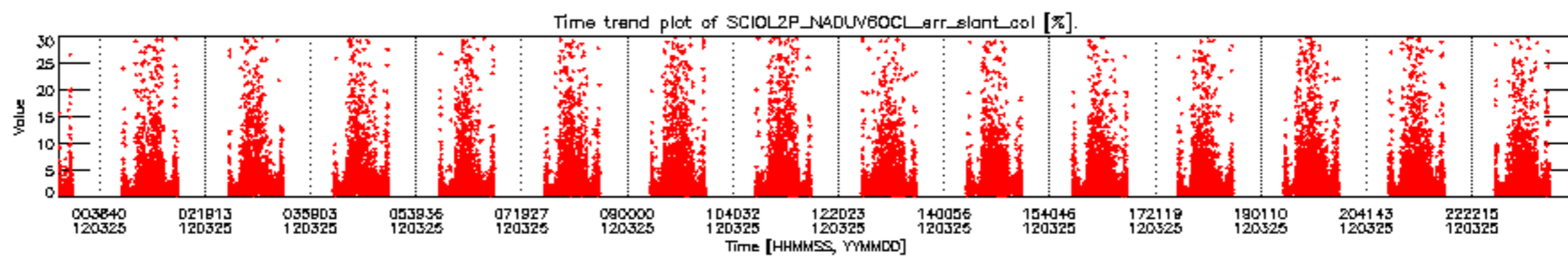
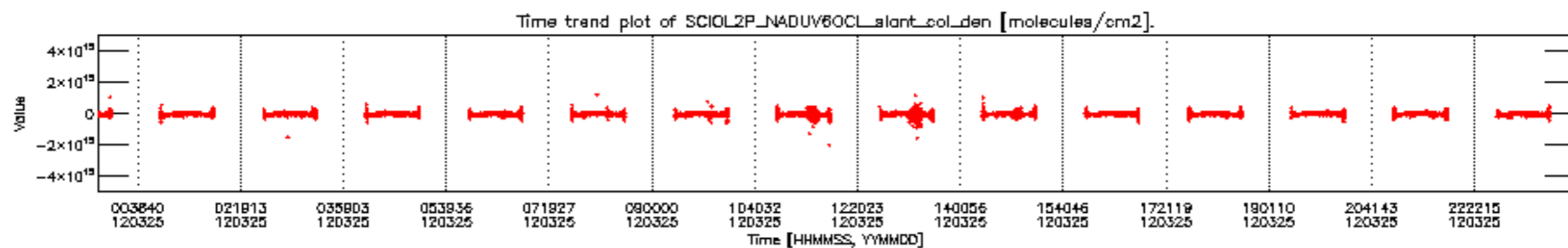


SCIOL2P_NADUV7S02_amf_gr for 25MAR2012 00:00:00 to 26MAR2012 00:00:00

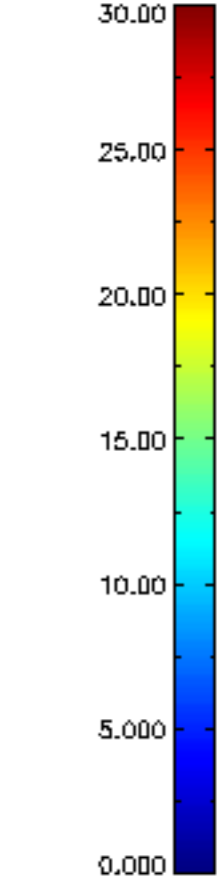
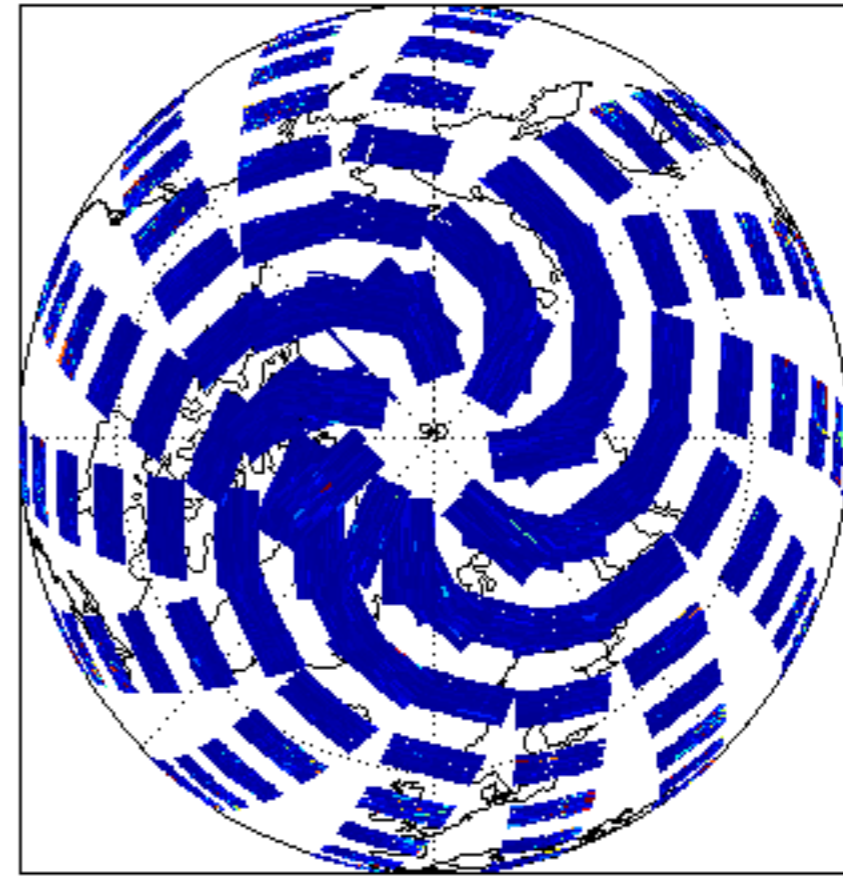
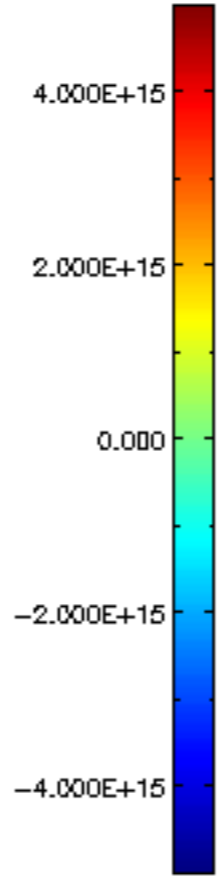
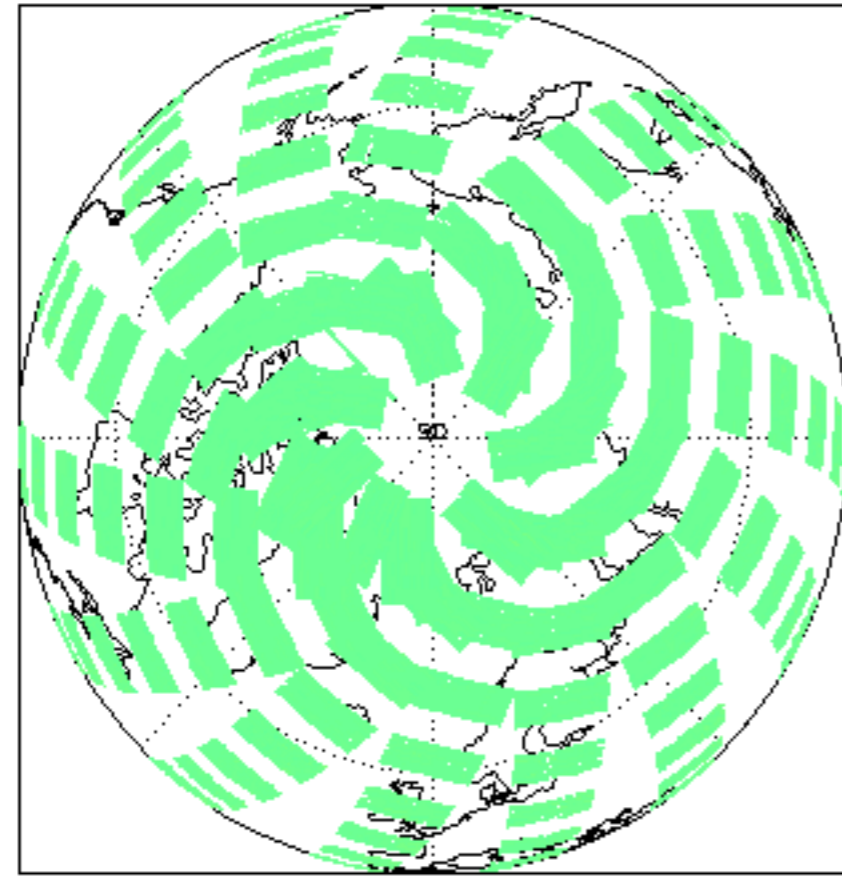


SCIOL2P_NADUV7S02_amf_cl for 25MAR2012 00:00:00 to 26MAR2012 00:00:00

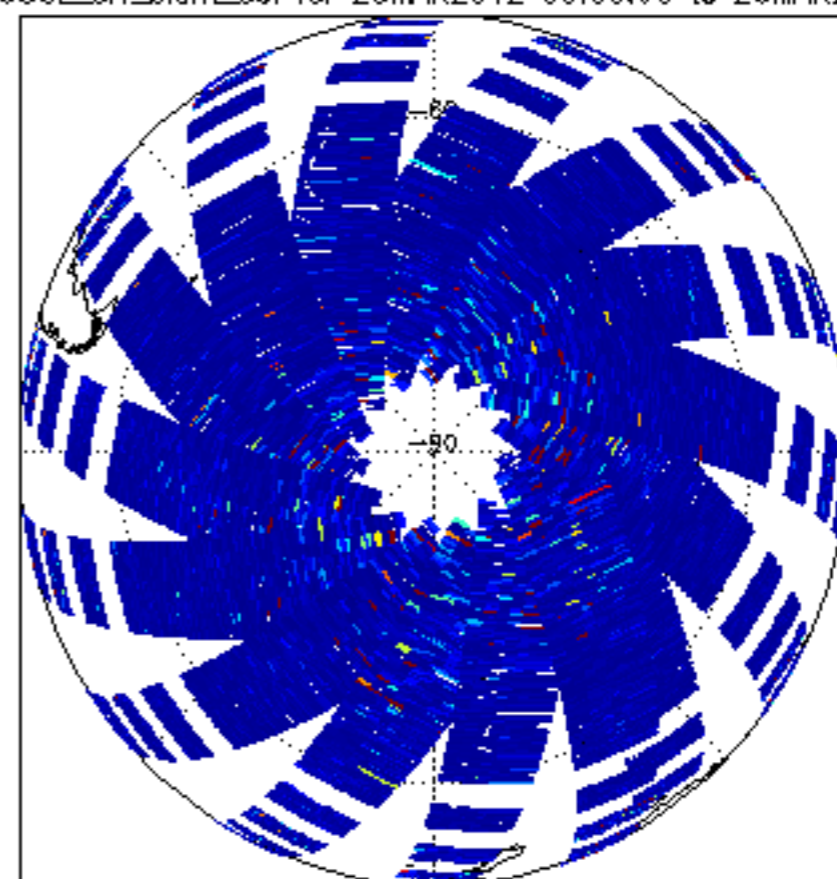
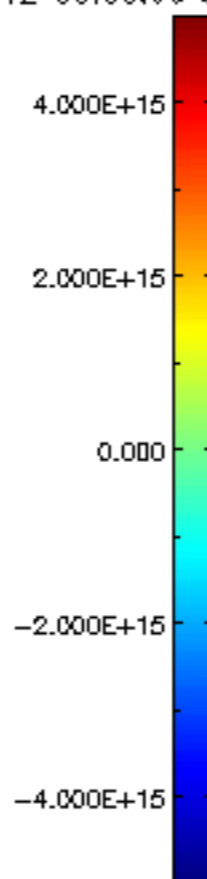
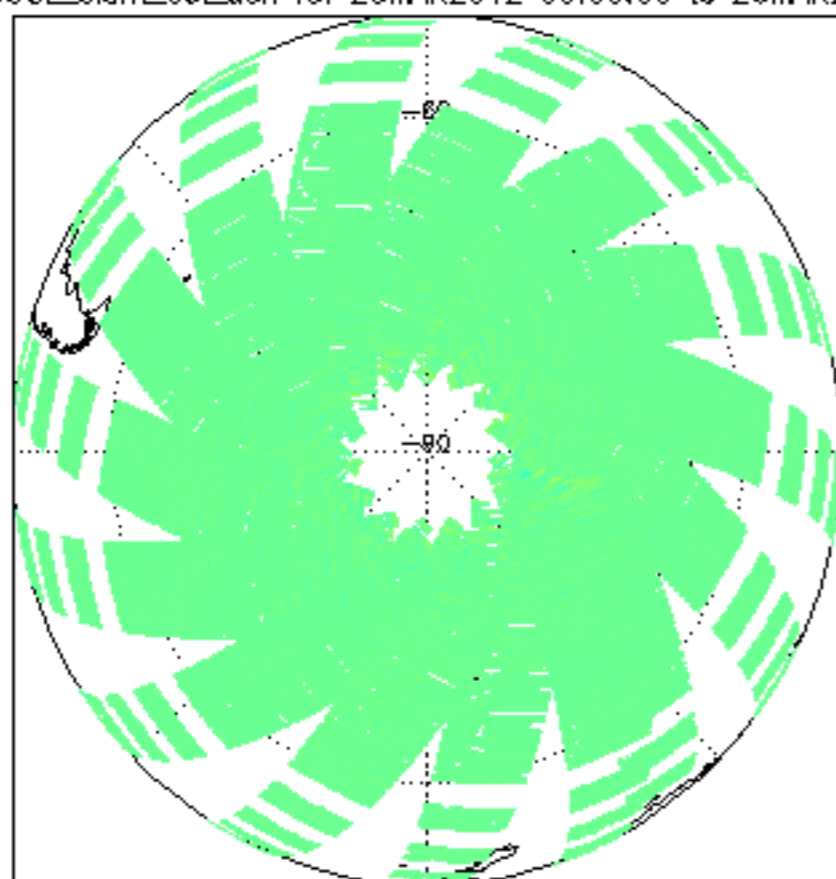


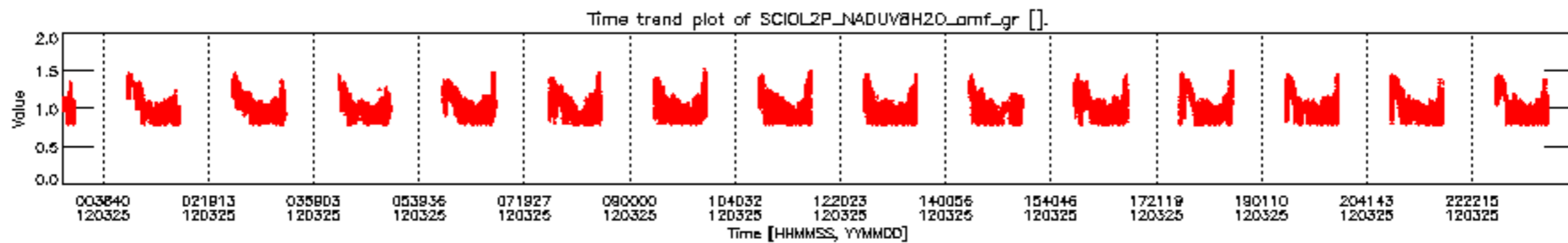
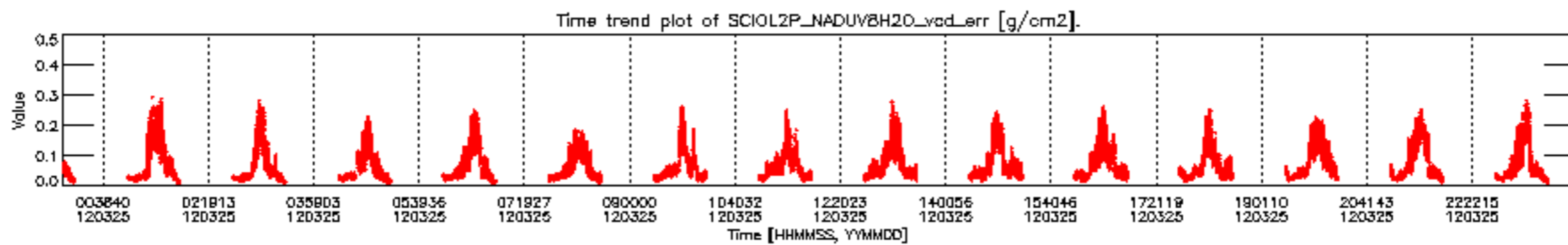
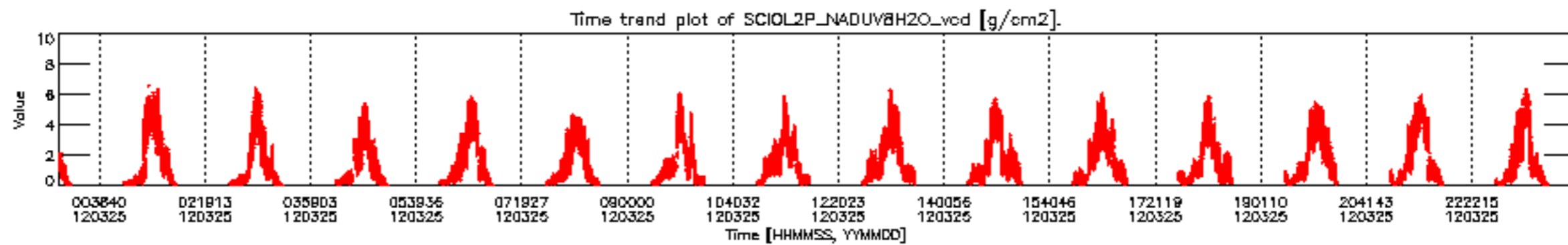


CIOL2P_NADUV6OCL_slant_col_den for 25MAR2012 00:00:00 to 26MAR2012 00:00:00 np; CIOL2P_NADUV6OCL_err_slant_col for 25MAR2012 00:00:00 to 26MAR2012 00:00:00 np

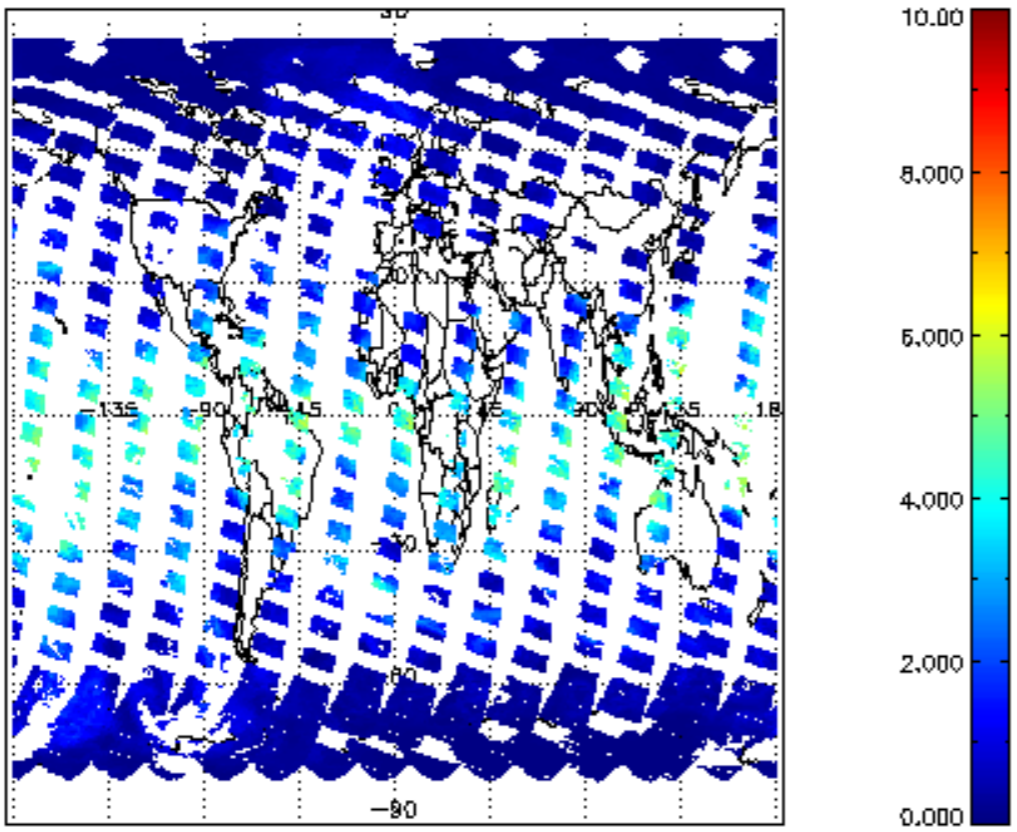


CIOL2P_NADUV6OCL_slant_col_den for 25MAR2012 00:00:00 to 26MAR2012 00:00:00 sp; CIOL2P_NADUV6OCL_err_slant_col for 25MAR2012 00:00:00 to 26MAR2012 00:00:00 sp

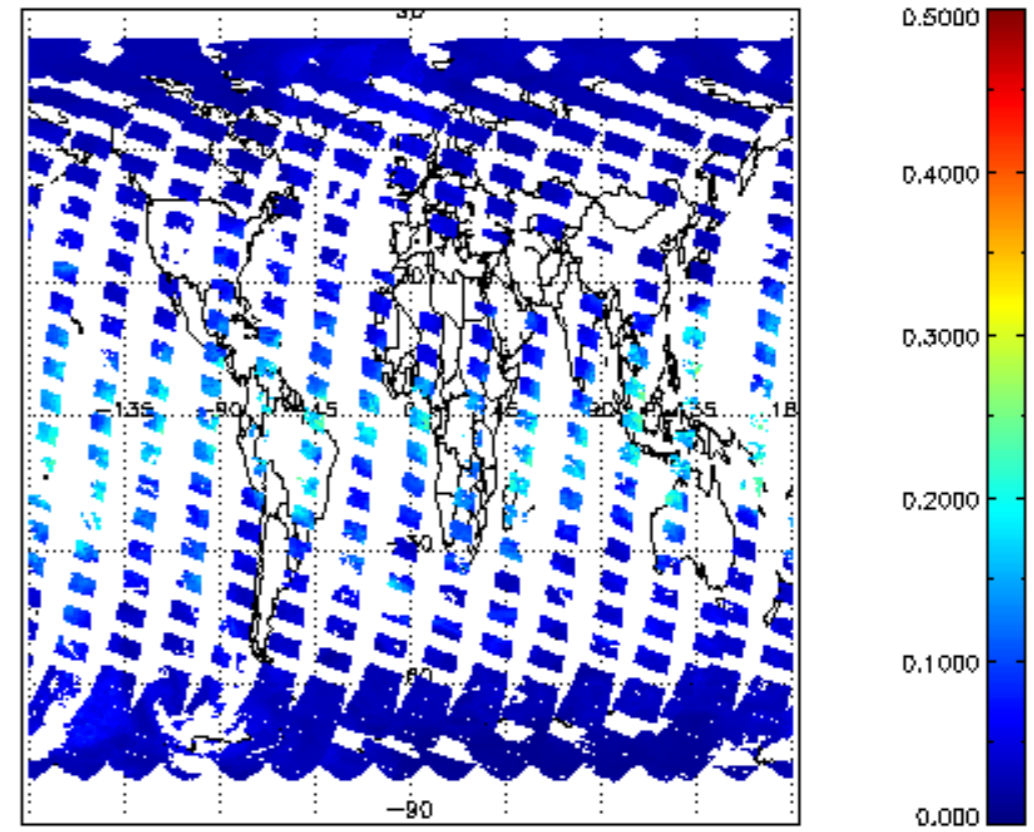




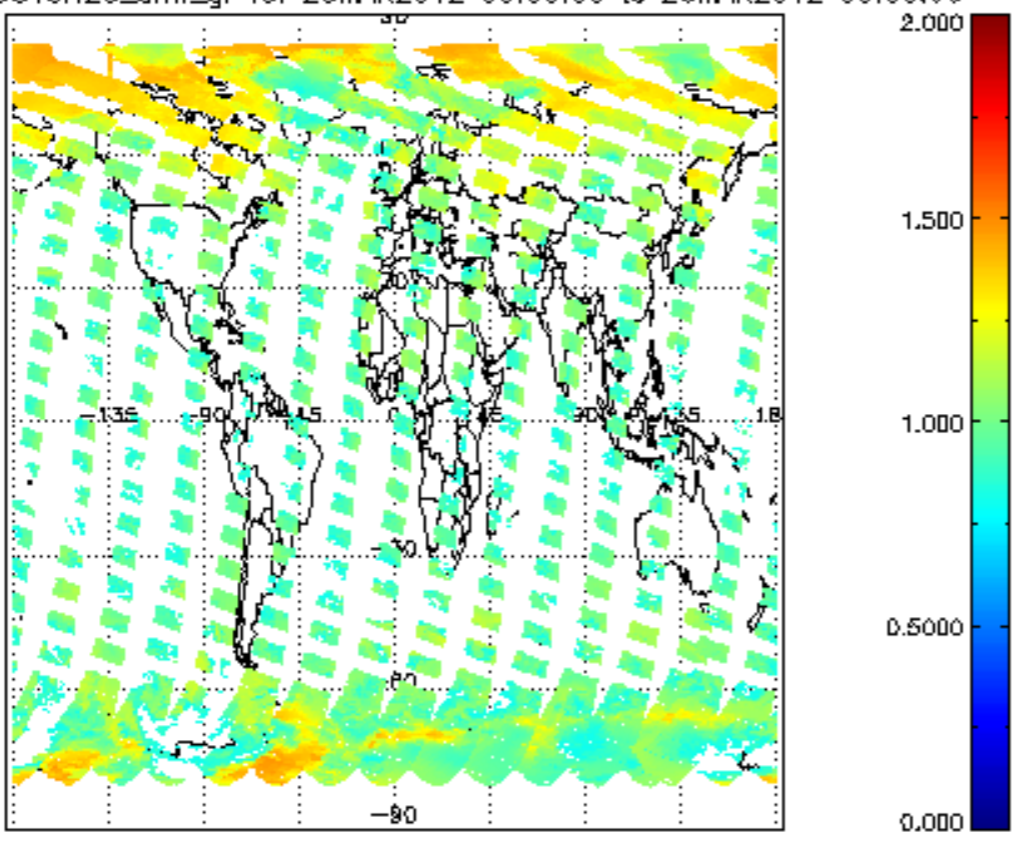
SCIOL2P_NADUV8H2O_vcd for 25MAR2012 00:00:00 to 26MAR2012 00:00:00

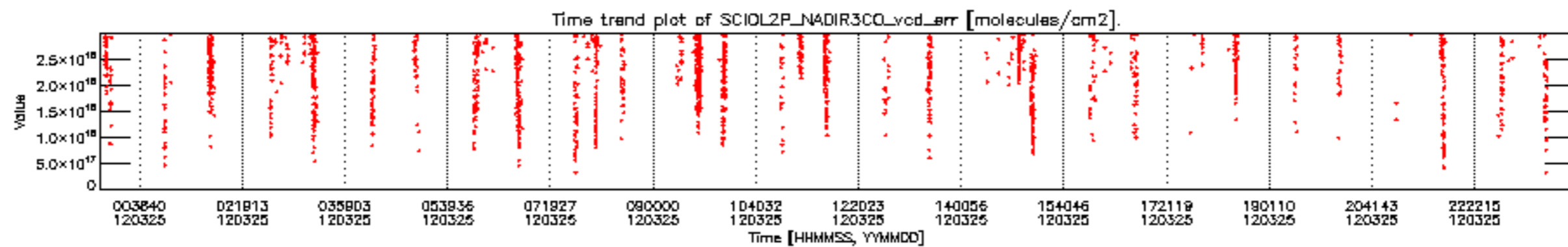
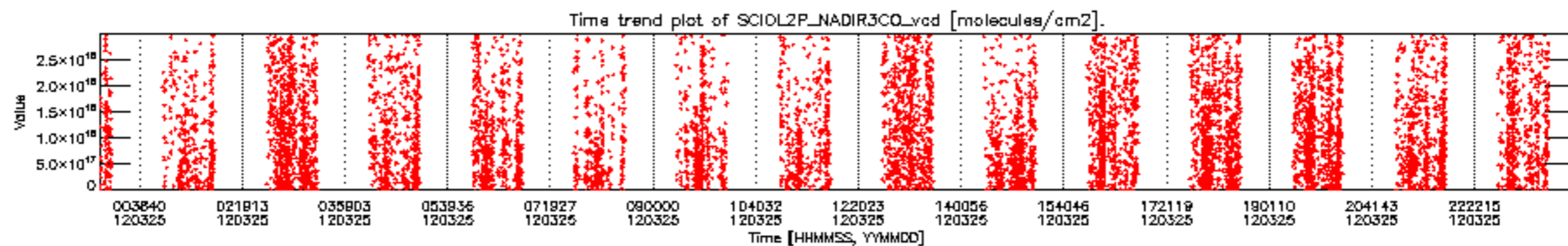


SCIOL2P_NADUV8H2O_vcd_err for 25MAR2012 00:00:00 to 26MAR2012 00:00:00

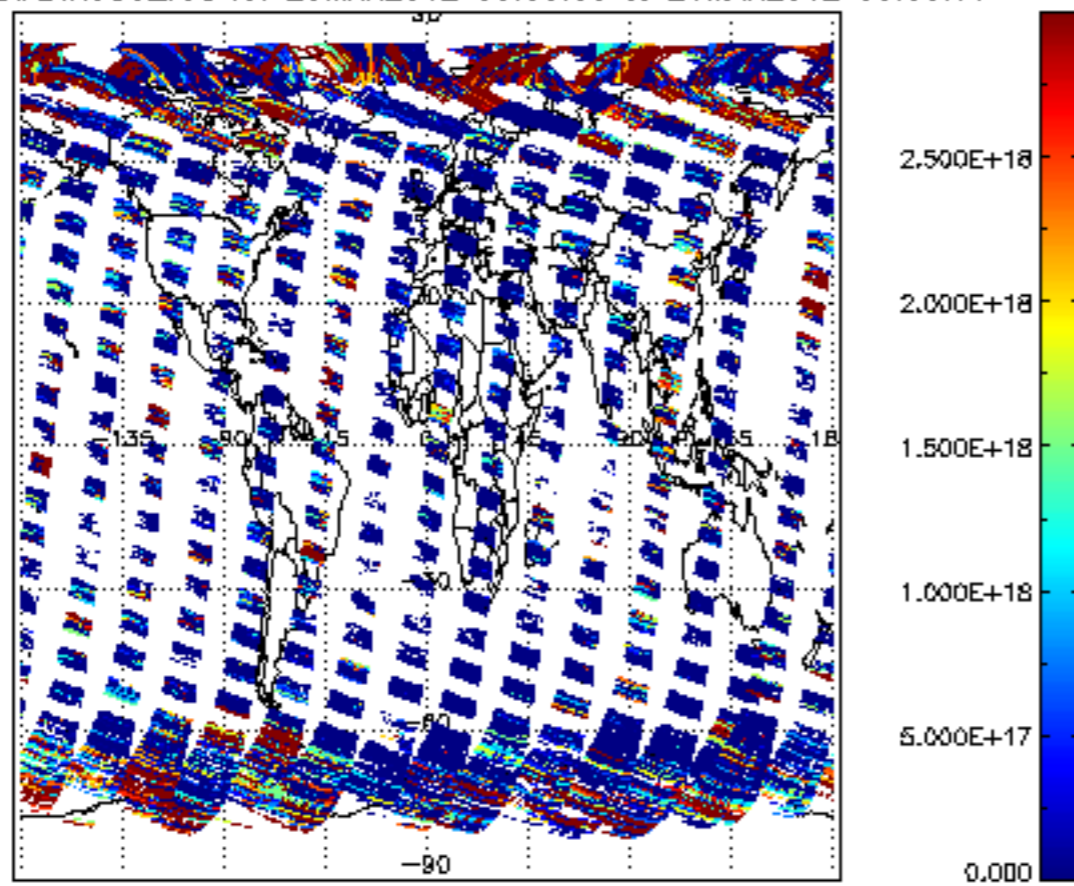


SCIOL2P_NADUV8H2O_arnf_gr for 25MAR2012 00:00:00 to 26MAR2012 00:00:00

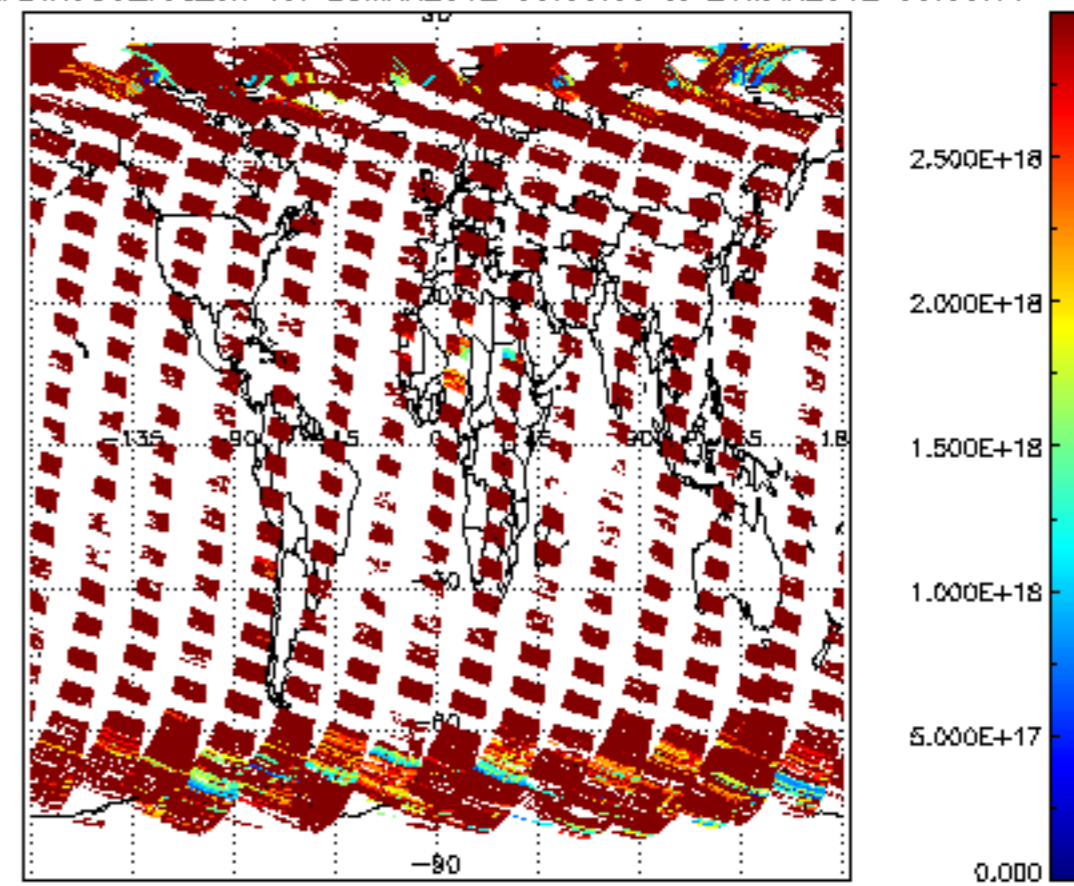




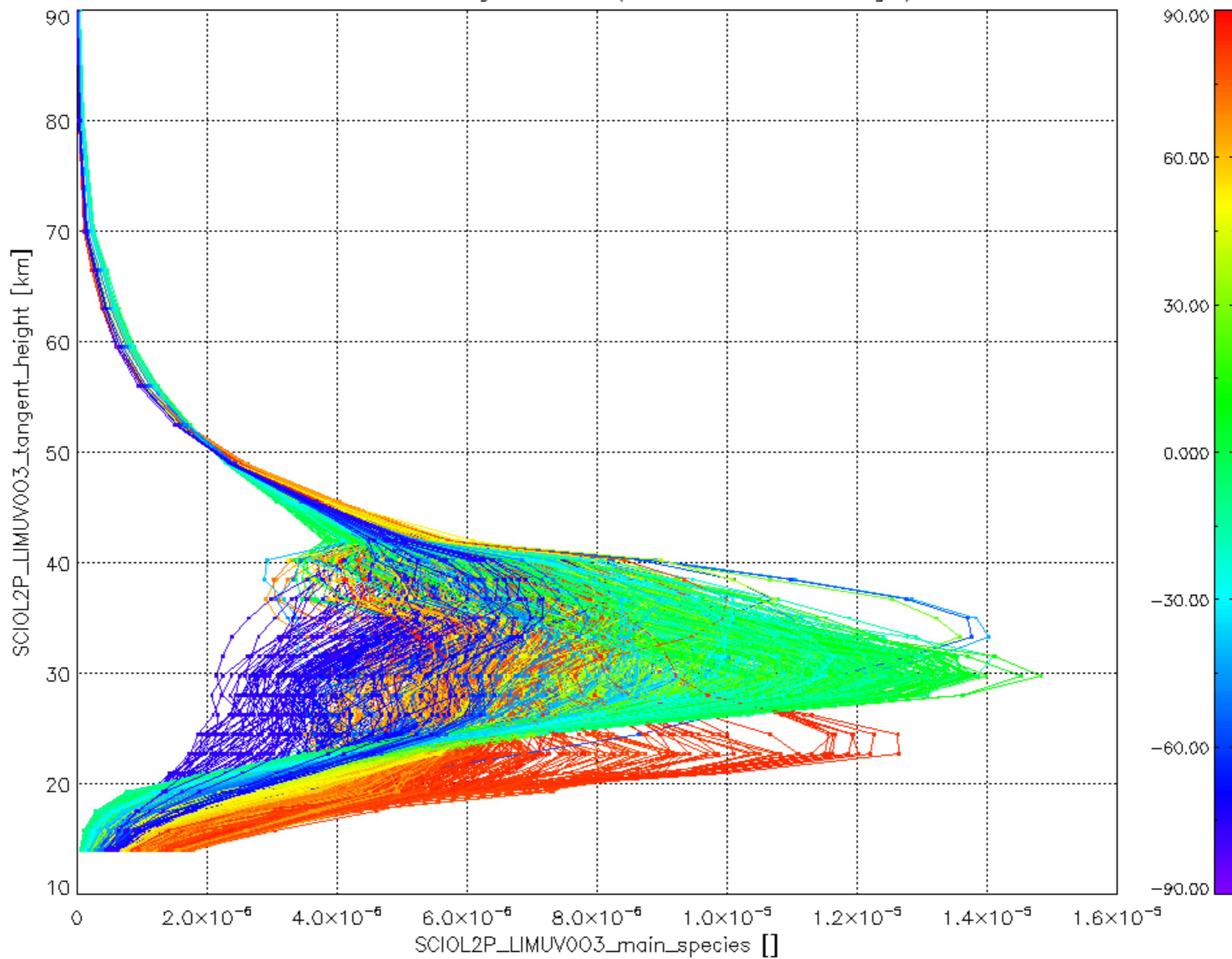
SCIOL2P_NADIR3CO_vcd for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



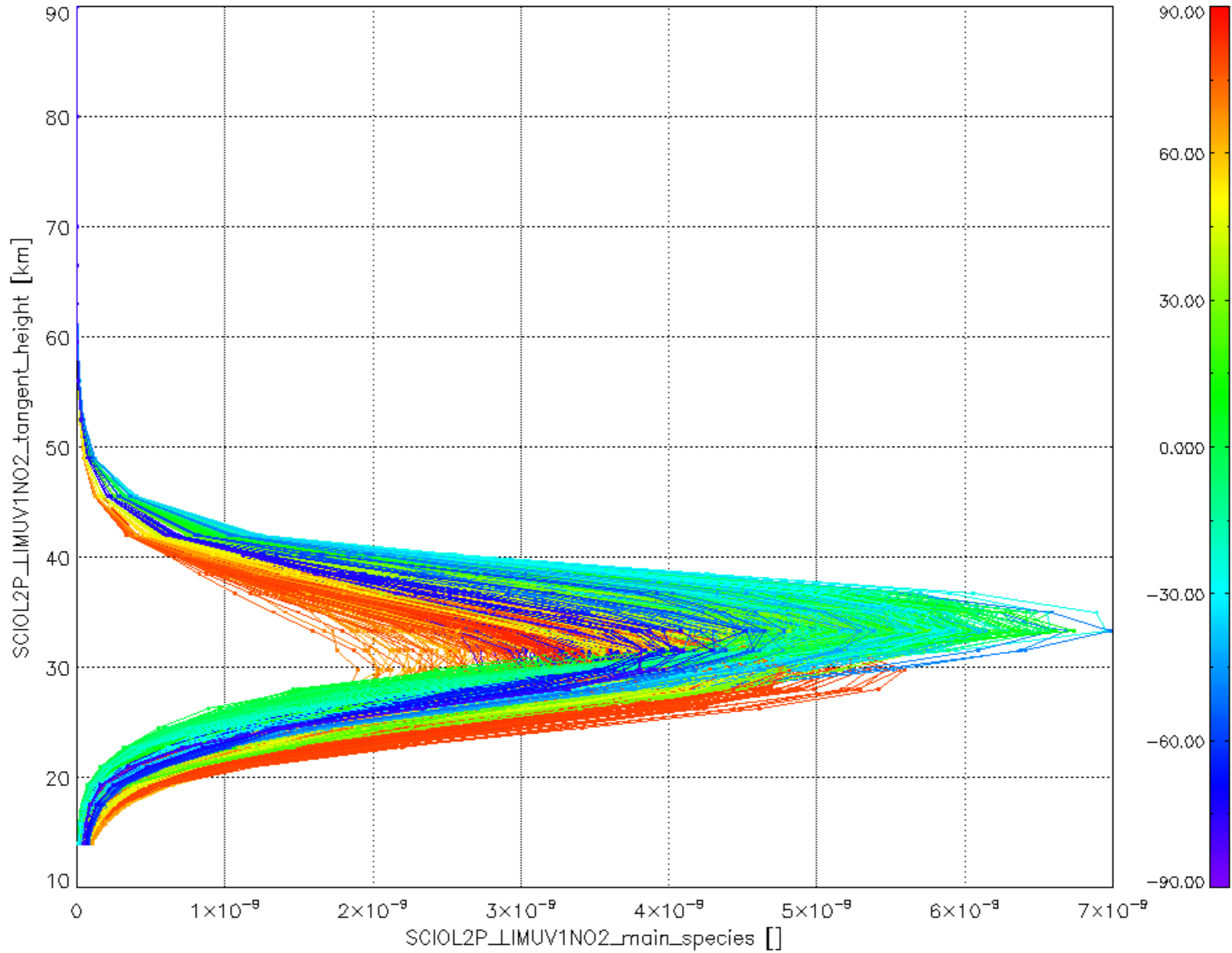
SCIOL2P_NADIR3CO_vcd_err for 25MAR2012 00:00:00 to 26MAR2012 00:00:00



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).

