

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	20MAR2012 15:09:06
Data source version	SCIA-OL/5.02-W
Processing scope for products	03MAR2012 00:00:00 to 04MAR2012 00:00:00
Start time of first product within scope	02MAR2012 23:23:23
Stop time of last product within scope	03MAR2012 23:45:28
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__2PWDP A20120302_232323_000032413112_00174_52343_3823.N1	02MAR2012 23:23:23	03MAR2012 00:17:25	0	GOOD
1	SCI_OL__2PWDP A20120303_010336_000032413112_00175_52344_3824.N1	03MAR2012 01:03:36	03MAR2012 01:57:38	0	GOOD
2	SCI_OL__2PWDP A20120303_024350_000032413112_00176_52345_3825.N1	03MAR2012 02:43:50	03MAR2012 03:37:52	0	GOOD
3	SCI_OL__2PWDP A20120303_042403_000032413112_00177_52346_3826.N1	03MAR2012 04:24:03	03MAR2012 05:18:05	0	GOOD
4	SCI_OL__2PWDP A20120303_060417_000032413112_00178_52347_3827.N1	03MAR2012 06:04:17	03MAR2012 06:58:19	0	GOOD

5	SCI_OL__2PWDP	A20120303_074430_000032413112_00179_52348_3828.N1	03MAR2012 07:44:30	03MAR2012 08:38:32	0	GOOD
6	SCI_OL__2PWDP	A20120303_092444_000032413112_00180_52349_3832.N1	03MAR2012 09:24:44	03MAR2012 10:18:46	0	GOOD
7	SCI_OL__2PWDP	A20120303_110457_000035653112_00181_52350_3829.N1	03MAR2012 11:04:57	03MAR2012 12:04:23	0	GOOD
8	SCI_OL__2PWDP	A20120303_124511_000035613112_00182_52351_3830.N1	03MAR2012 12:45:11	03MAR2012 13:44:32	0	GOOD
9	SCI_OL__2PWDP	A20120303_142524_000035573112_00183_52352_3831.N1	03MAR2012 14:25:24	03MAR2012 15:24:41	0	GOOD
10	SCI_OL__2PWDP	A20120303_160538_000035533112_00184_52353_3833.N1	03MAR2012 16:05:38	03MAR2012 17:04:51	0	GOOD
11	SCI_OL__2PWDP	A20120303_174656_000035013112_00185_52354_3834.N1	03MAR2012 17:46:56	03MAR2012 18:45:18	0	GOOD
12	SCI_OL__2PWDP	A20120303_192624_000035253112_00186_52355_3835.N1	03MAR2012 19:26:24	03MAR2012 20:25:10	0	GOOD
13	SCI_OL__2PWDP	A20120303_210619_000035403112_00187_52356_3836.N1	03MAR2012 21:06:19	03MAR2012 22:05:19	0	GOOD
14	SCI_OL__2PWDP	A20120303_224632_000035353112_00188_52357_3837.N1	03MAR2012 22:46:32	03MAR2012 23:45:28	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: 139297

Total number of cloud data DSRs with good quality flag (=0): 139297 (100.0 %)

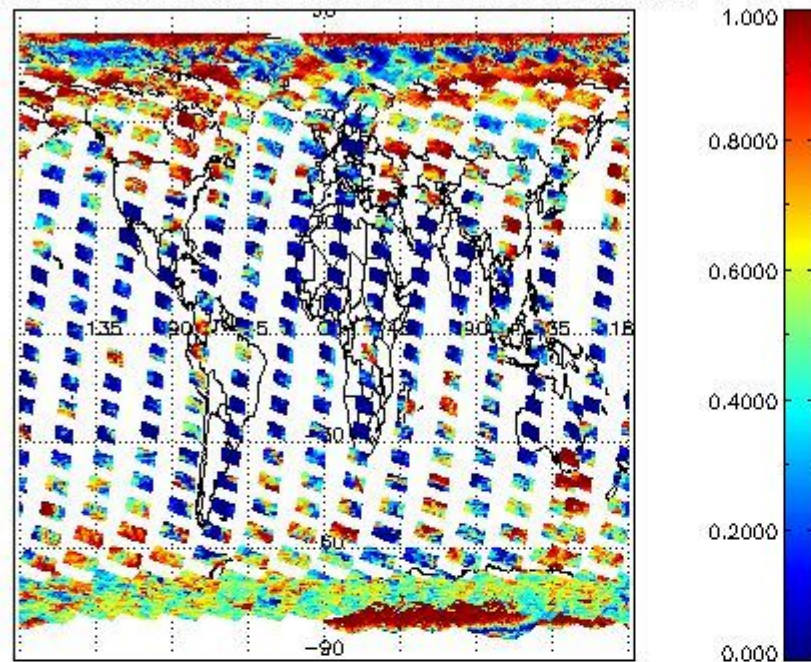
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	139297	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	139297	0.17161	0.12500	0.12500	0.25000	0.060446	s
CL_FRAC	139297	0.47990	0.48272	0.0000	1.0000	0.33360	
CL_FRAC_ERR	139297	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	139297	5.4914	4.0000	4.0000	8.0000	1.9343	
PMD_READ_CL[0]	139297	0.65070	0.0000	0.0000	8.0000	1.5841	-
PMD_READ_CL[1]	139297	1.2602	0.0000	0.0000	8.0000	2.5863	-
CL_TOP_HEIGHT	119525	2.9744	1.8577	0.0000	17.000	3.0376	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	119525	57.134	51.830	0.0000	101.00	40.125	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	139297	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	139297	11001010	11000100	11000000	11100000	3323.4	
AERO_ABSO_IND	139297	0.10640	0.0000	0.0000	7.9772	0.35074	
AERO_IND_DIAG	139297	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	139297	01011111	00000000	00000000	11000000	24576.	

Time and geolocation plots:

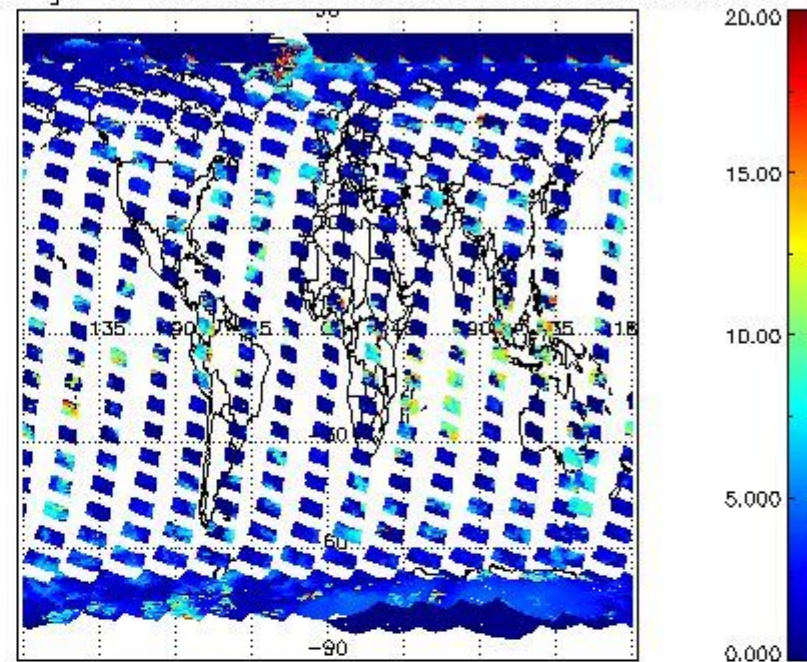
Plots are available for the following parameters:

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

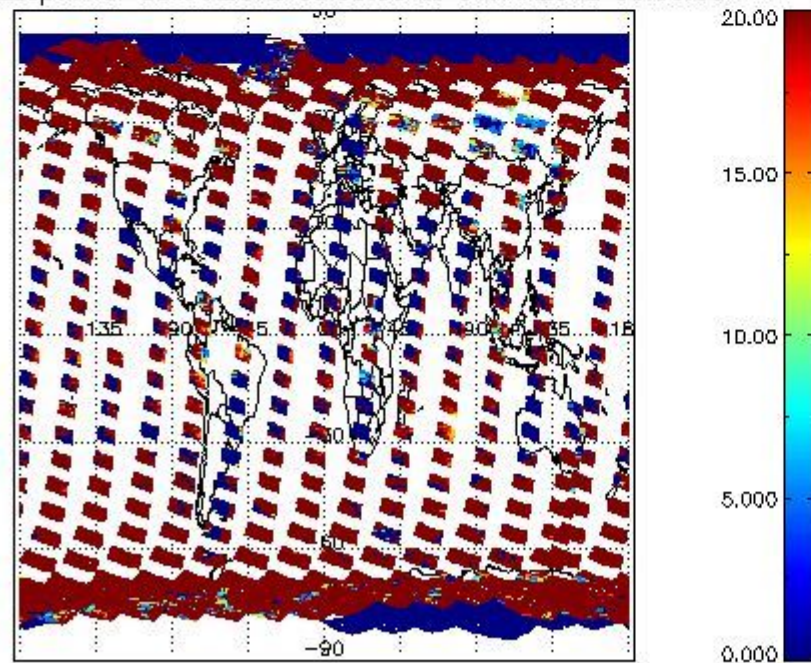
cL_frac for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



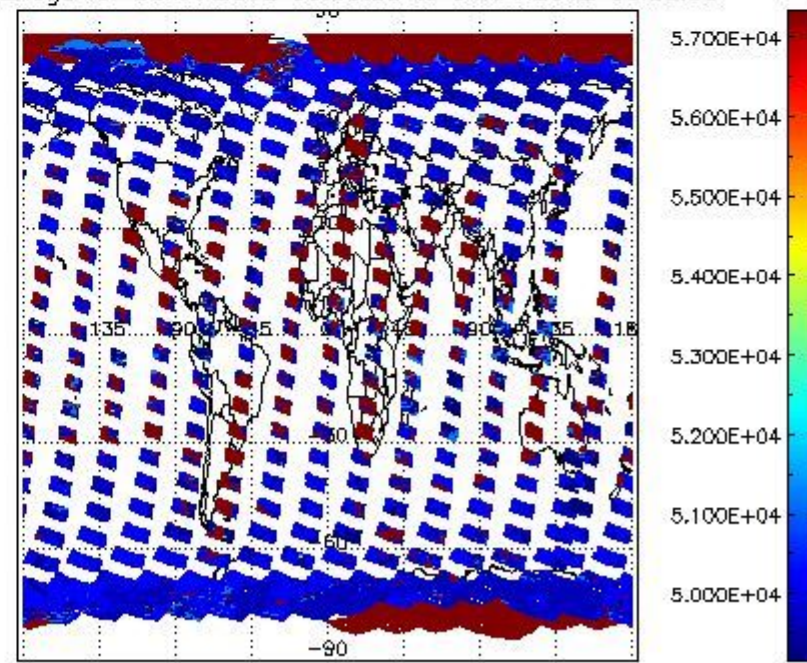
cL_top_height for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



cL_opt_depth for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



cloud_flags for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



2.2.2 Nadir

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

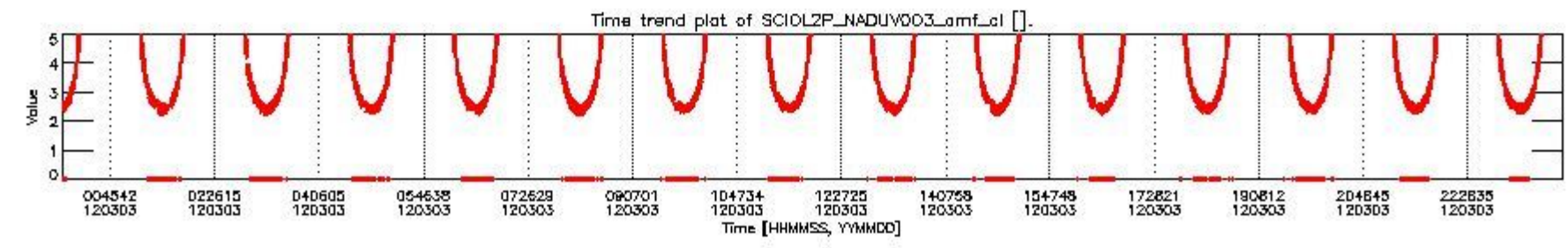
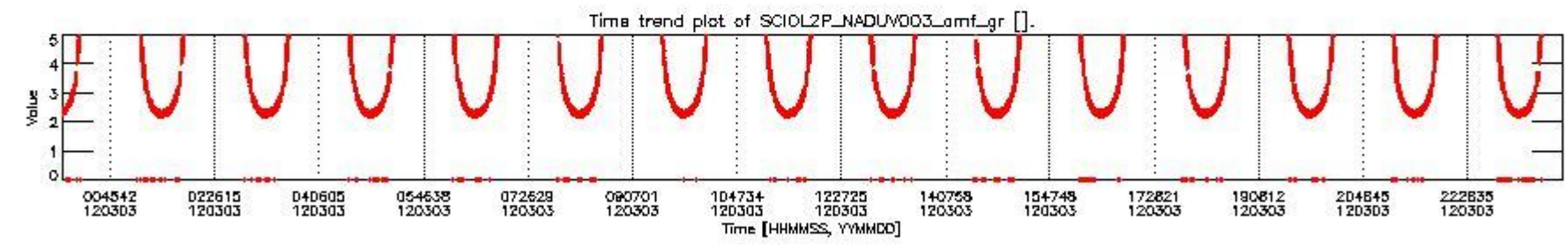
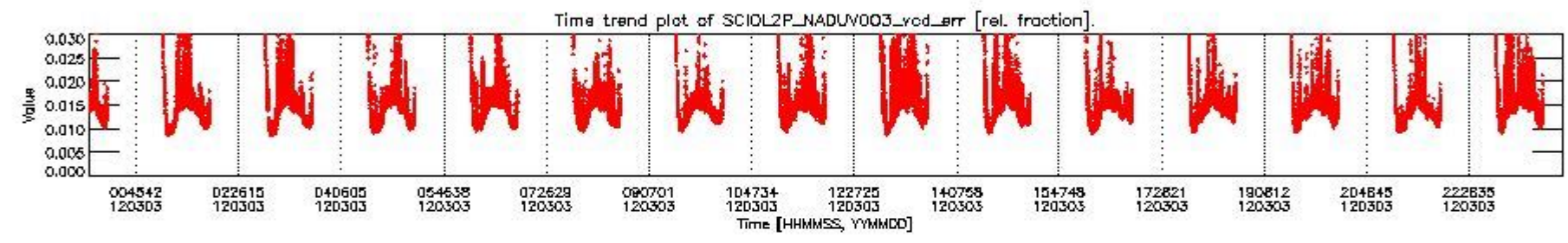
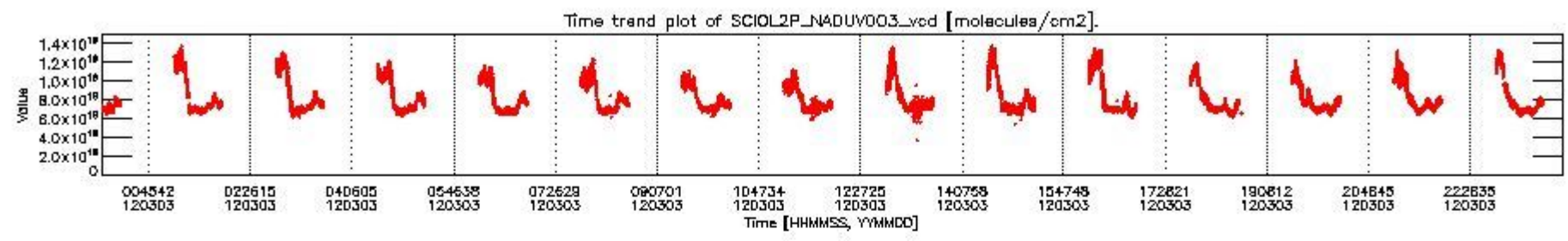
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

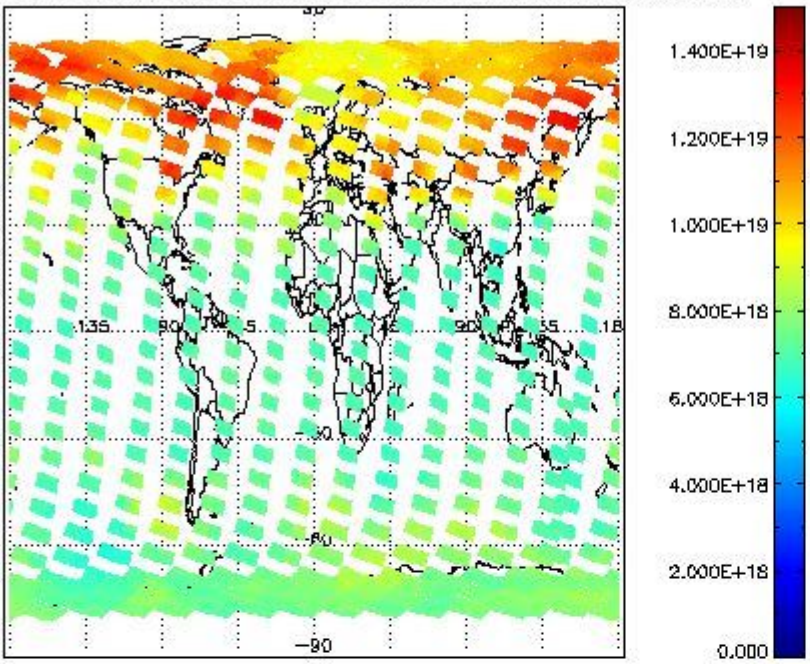
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

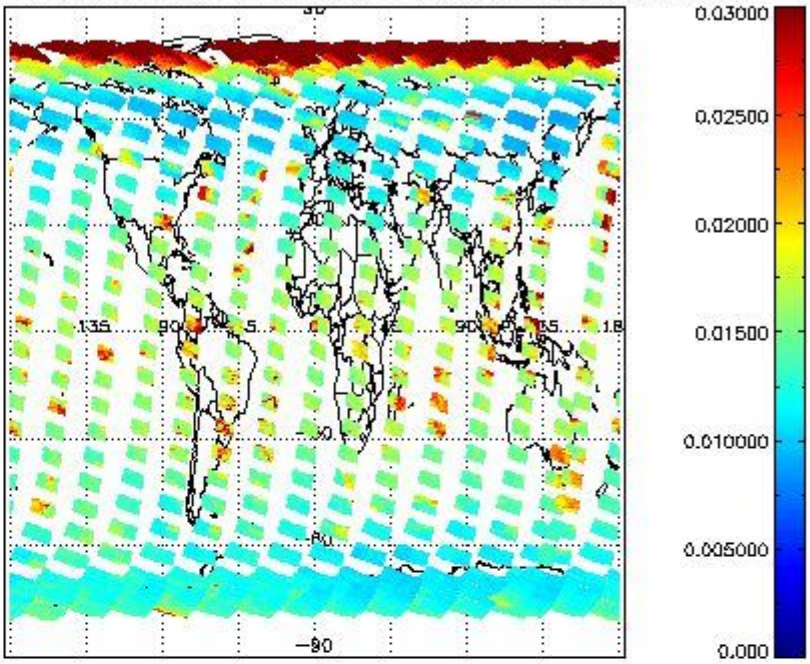
2.2.2.1 O3 (UV0)



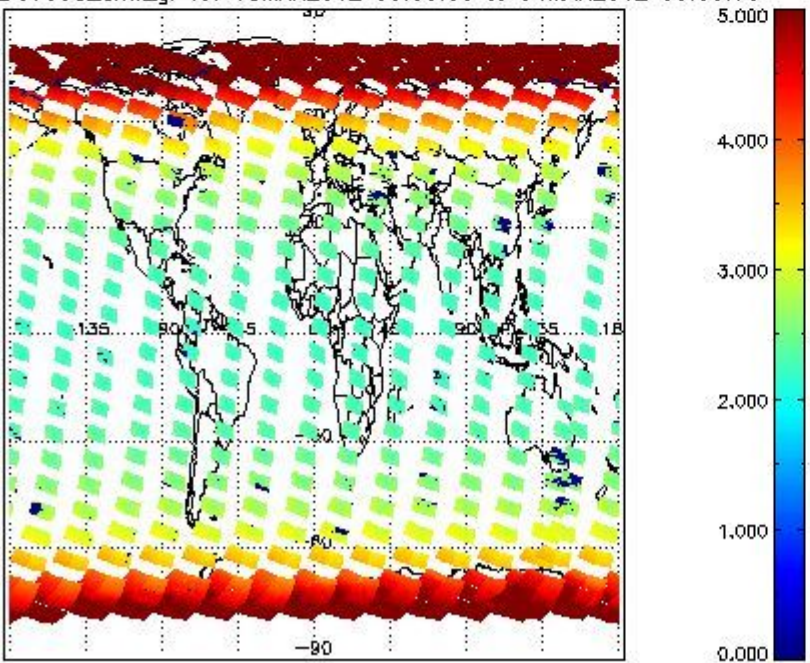
SCIOL2P_NADUV003_vcd for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



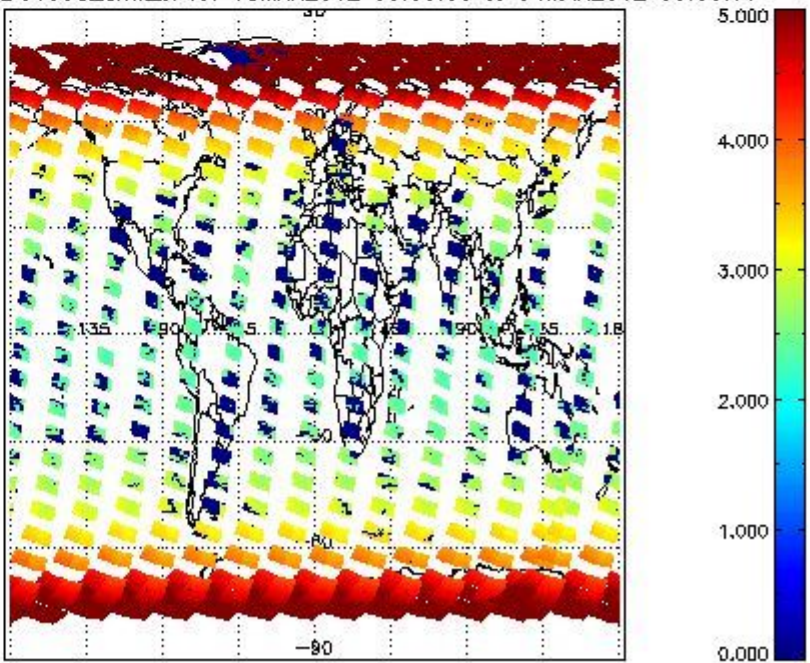
SCIOL2P_NADUV003_vcd_err for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



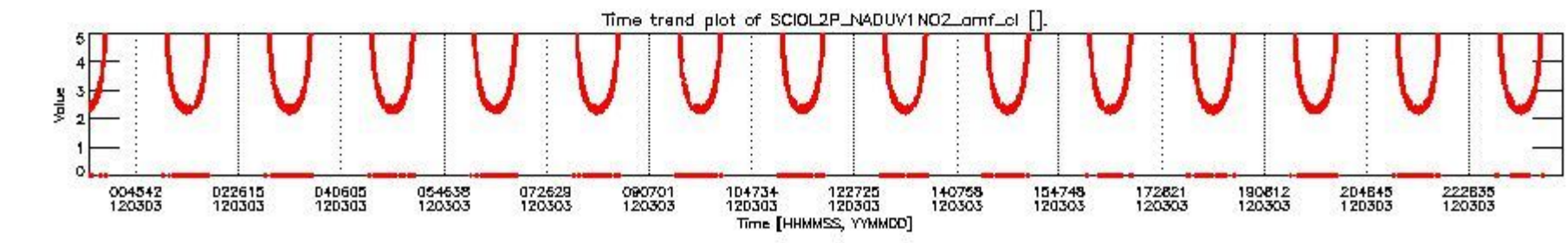
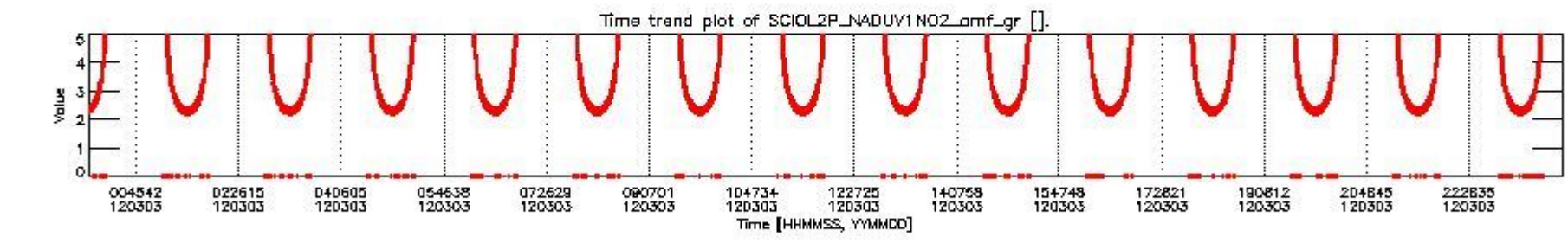
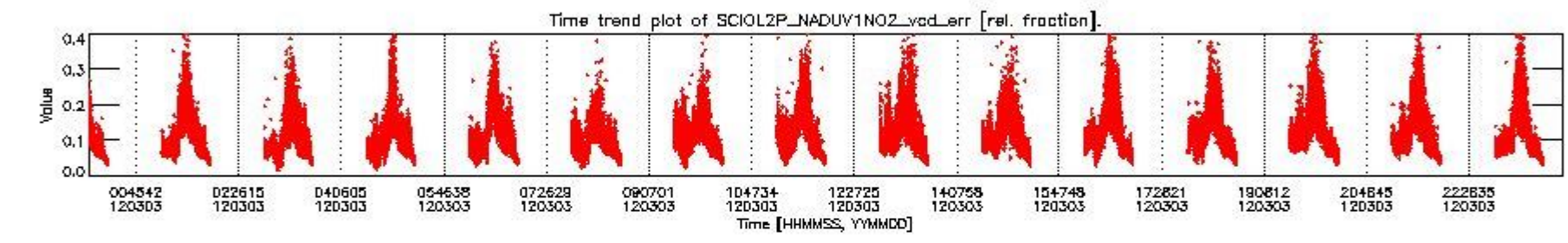
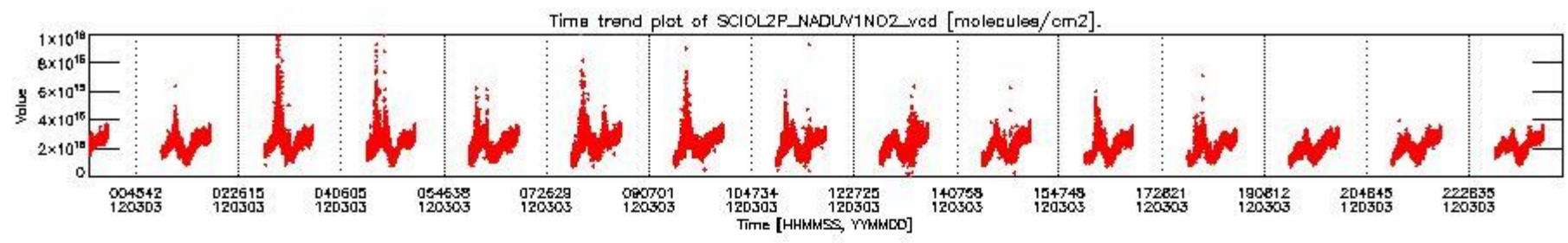
SCIOL2P_NADUV003_amf_gr for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



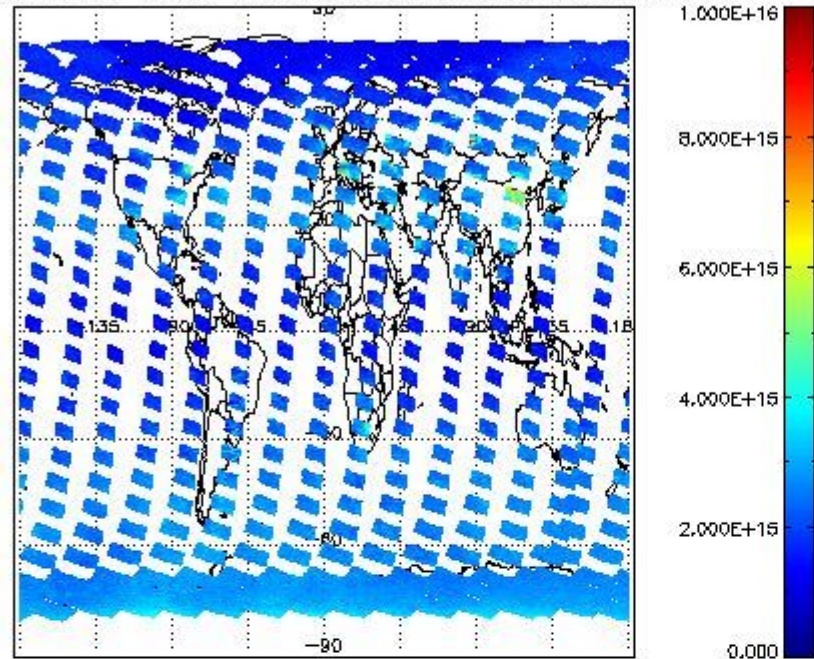
SCIOL2P_NADUV003_amf_cl for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



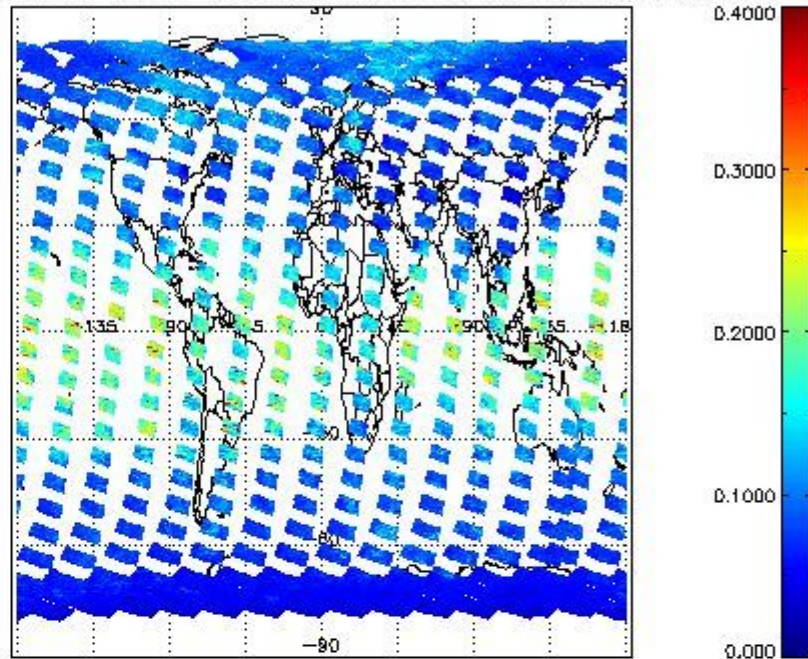
2.2.2.2 NO2 (UV1)



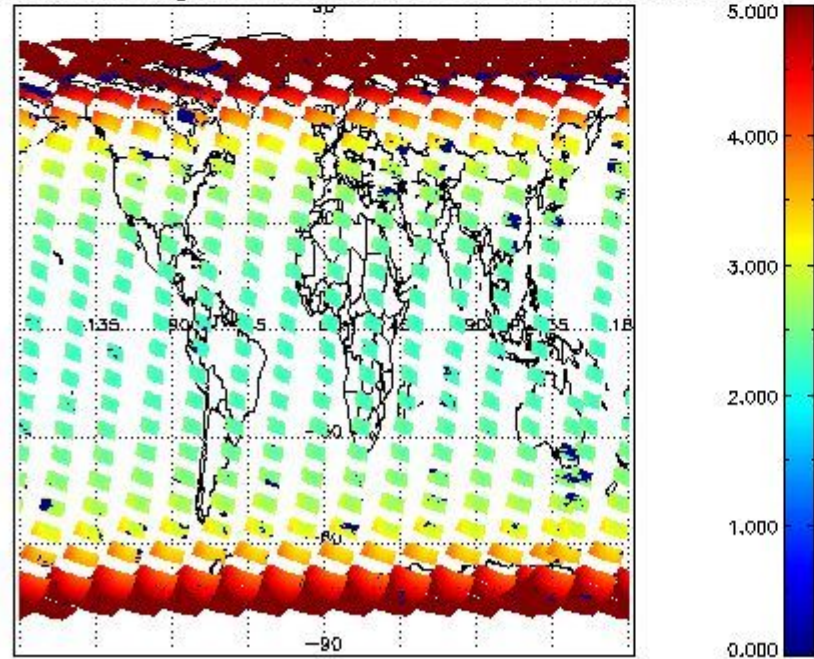
SCIOL2P_NADUV1NO2_vcd for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



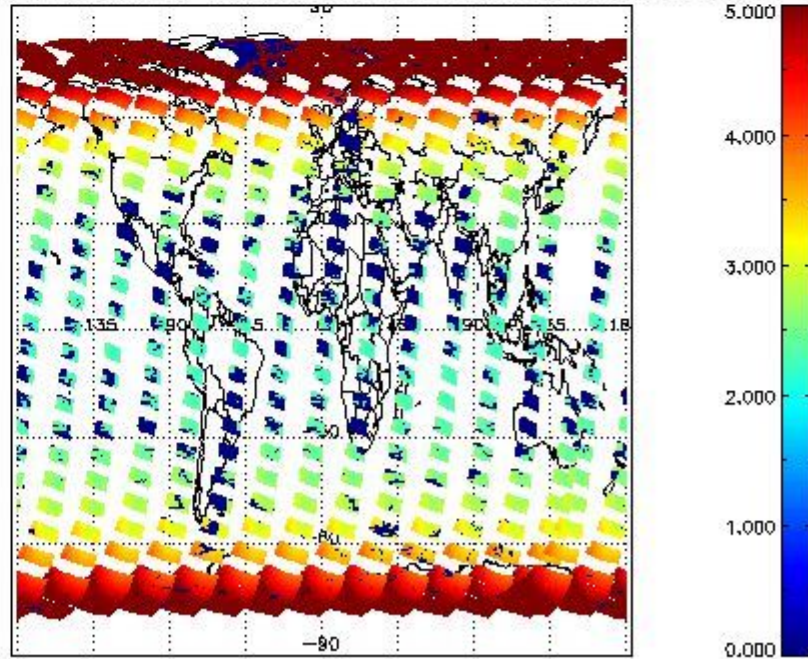
SCIOL2P_NADUV1NO2_vcd_err for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



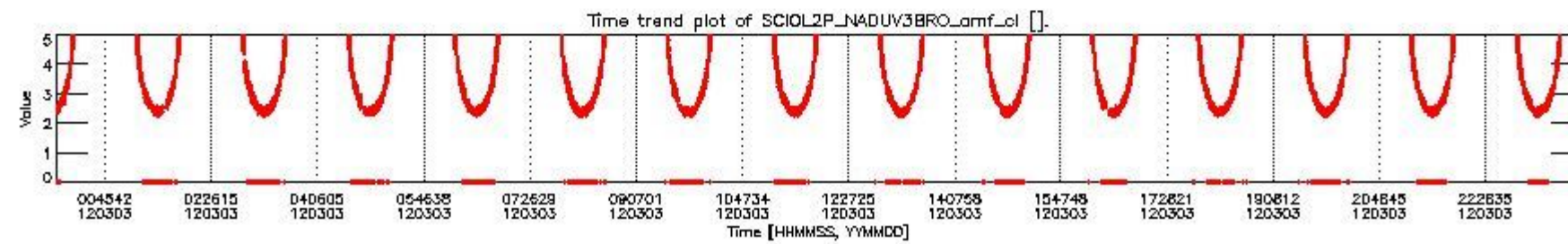
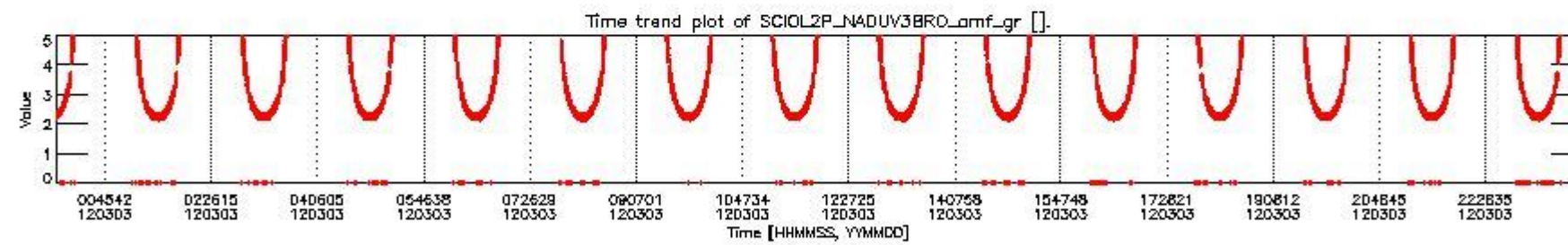
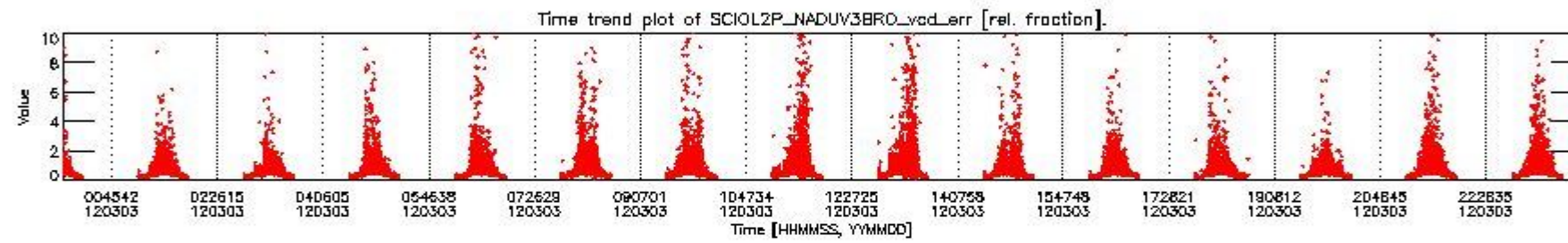
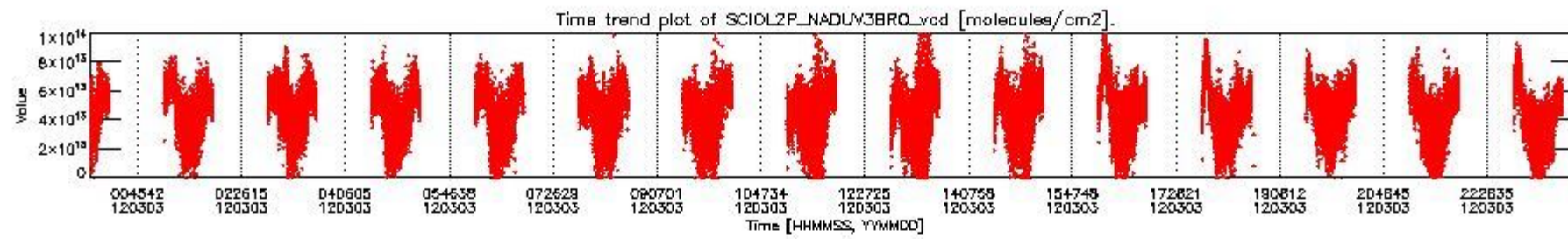
SCIOL2P_NADUV1NO2_amf_gr for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



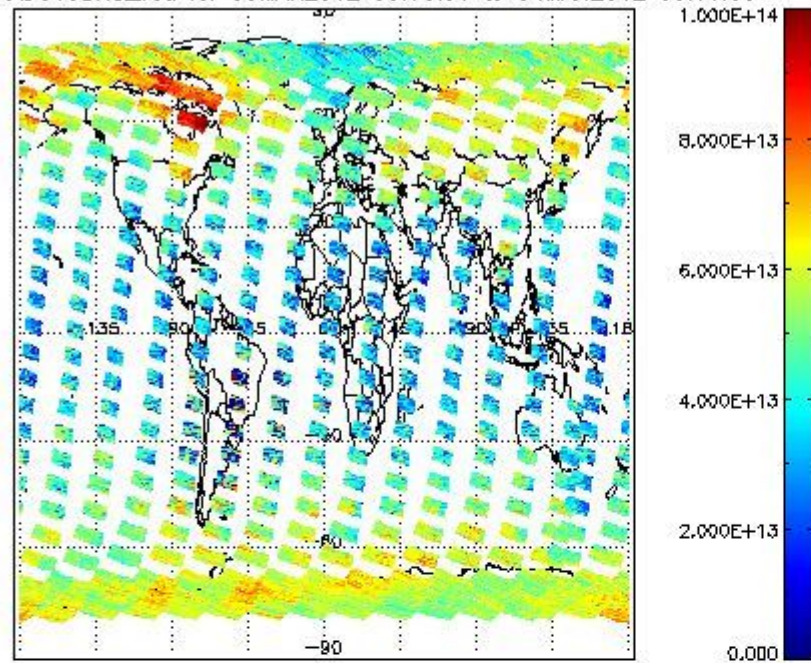
SCIOL2P_NADUV1NO2_amf_cl for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



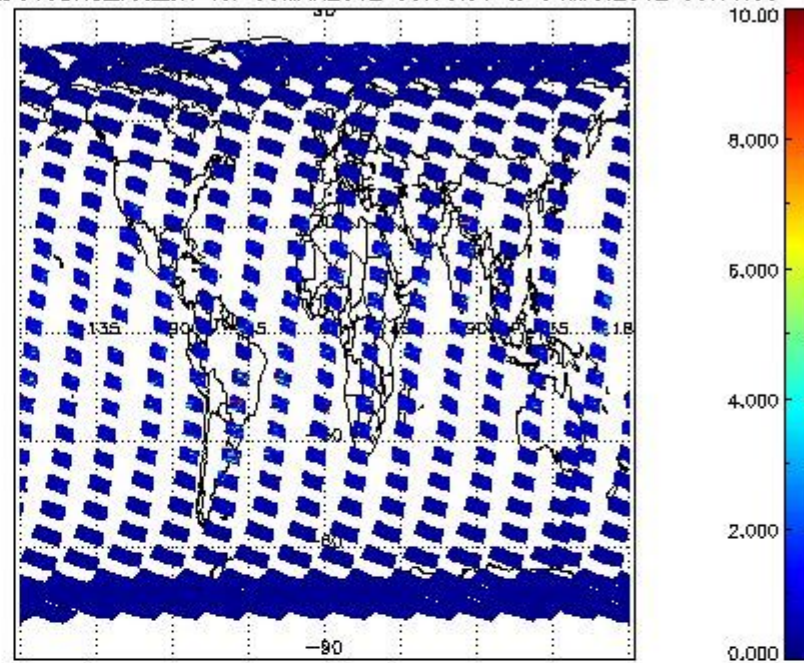
2.2.2.3 Bro (UV3)



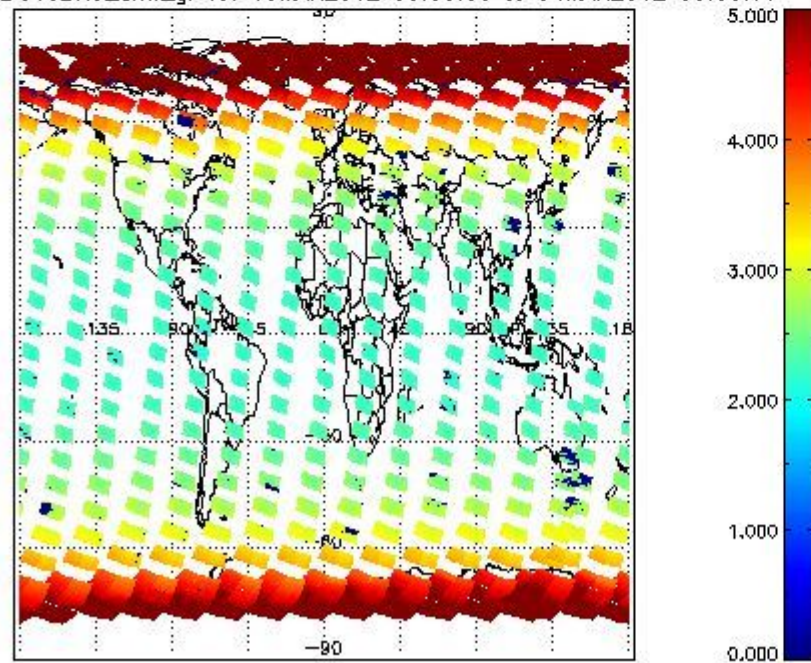
SCIOL2P_NADUV3BRO_vcd for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



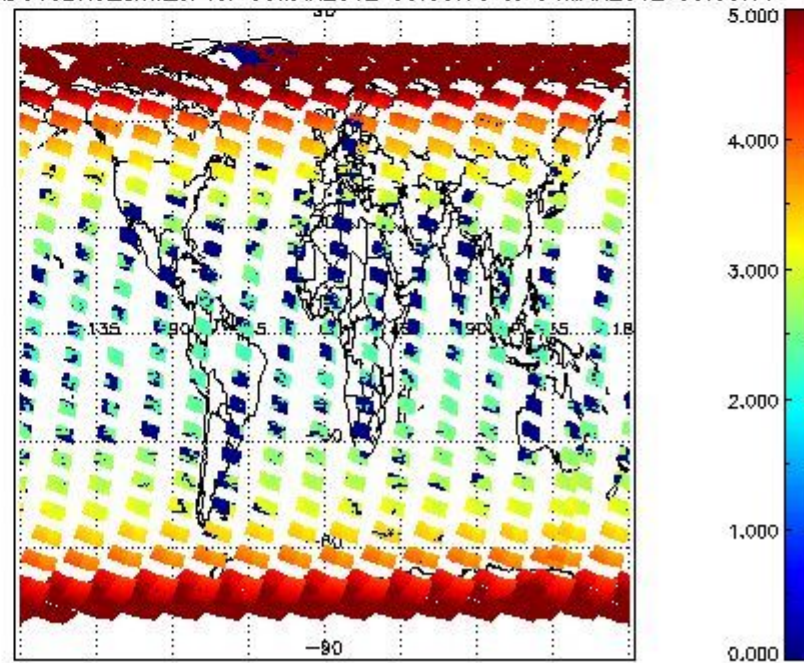
SCIOL2P_NADUV3BRO_vcd_err for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



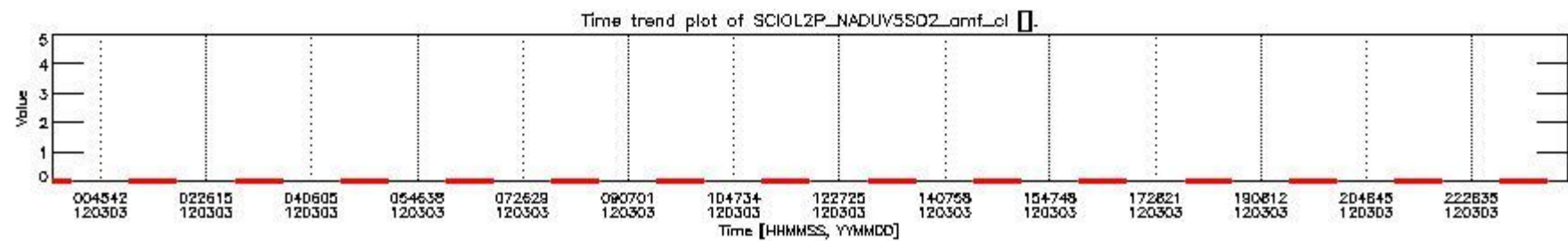
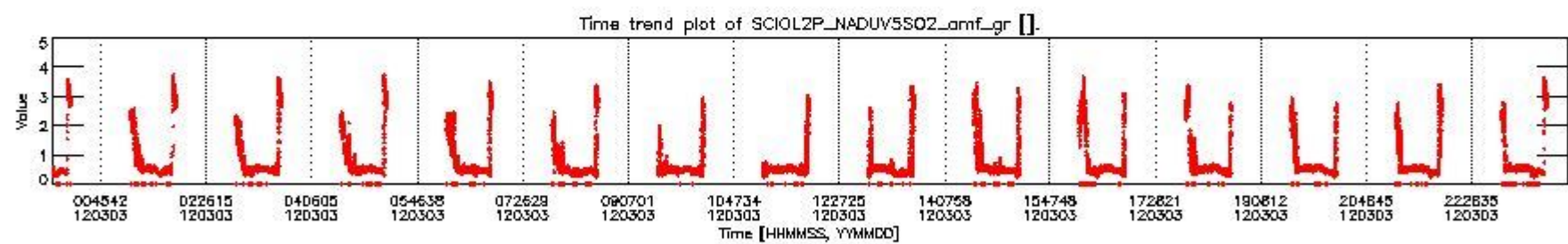
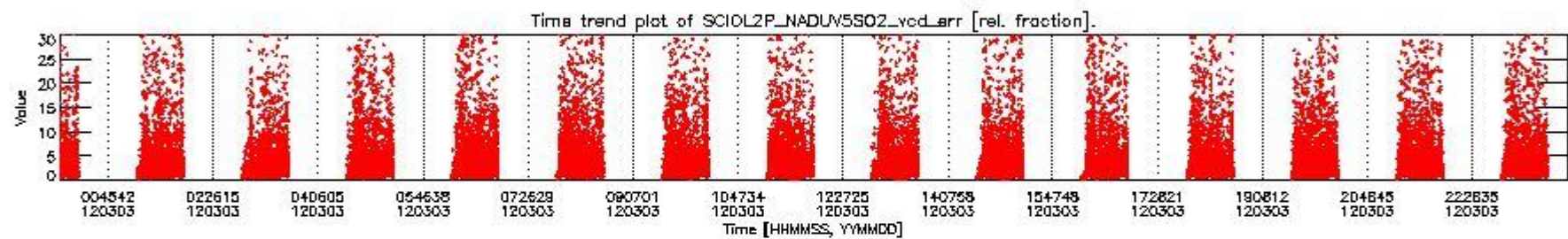
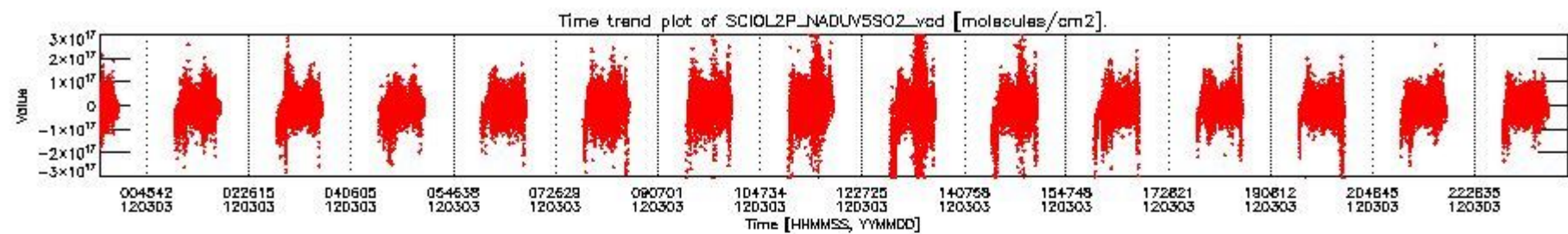
SCIOL2P_NADUV3BRO_amf_gr for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



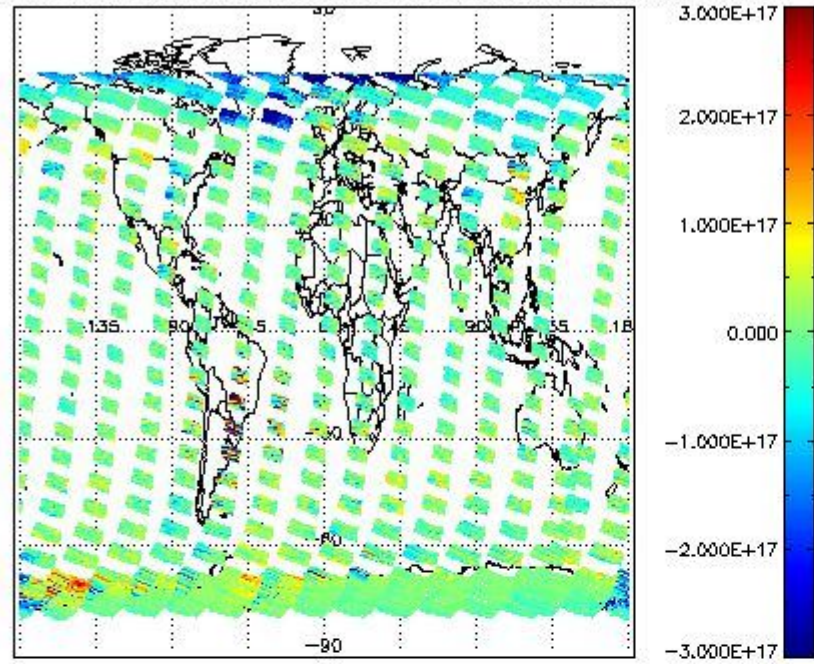
SCIOL2P_NADUV3BRO_amf_cl for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



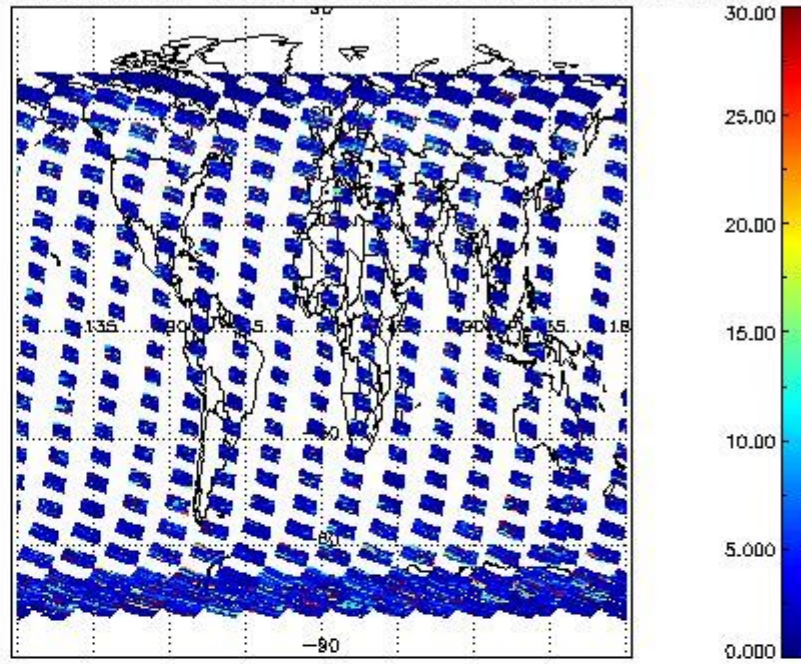
2.2.2.4 SO2 (UV5)



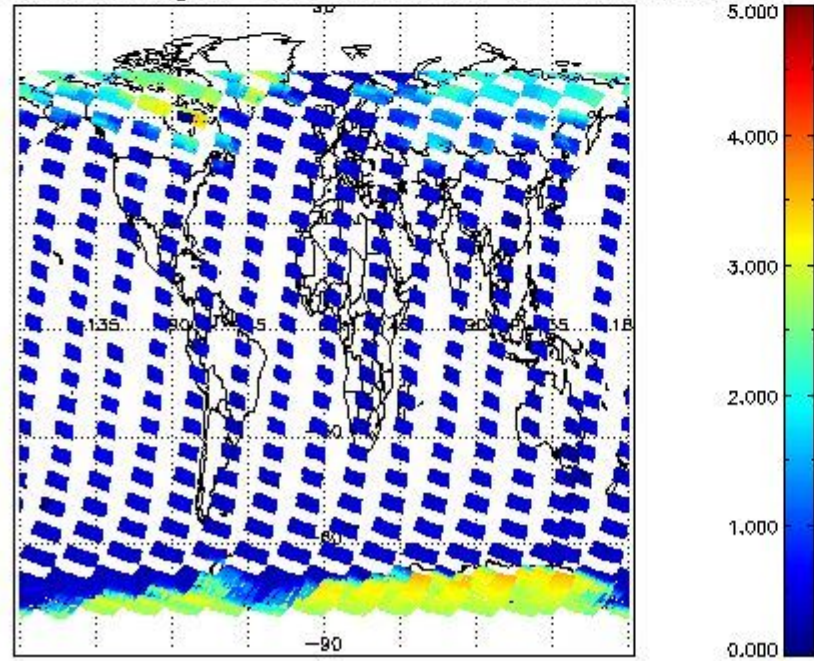
SCIOL2P_NADUV5SO2_vcd for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



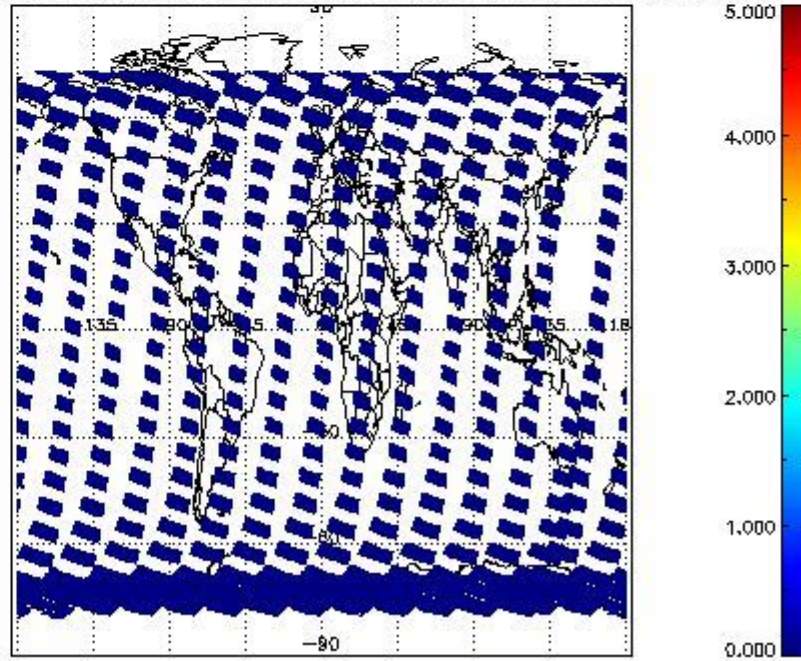
SCIOL2P_NADUV5SO2_vcd_err for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



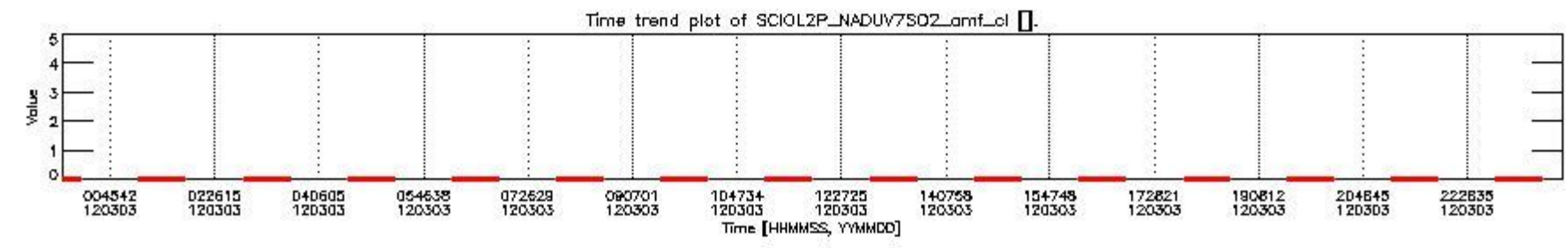
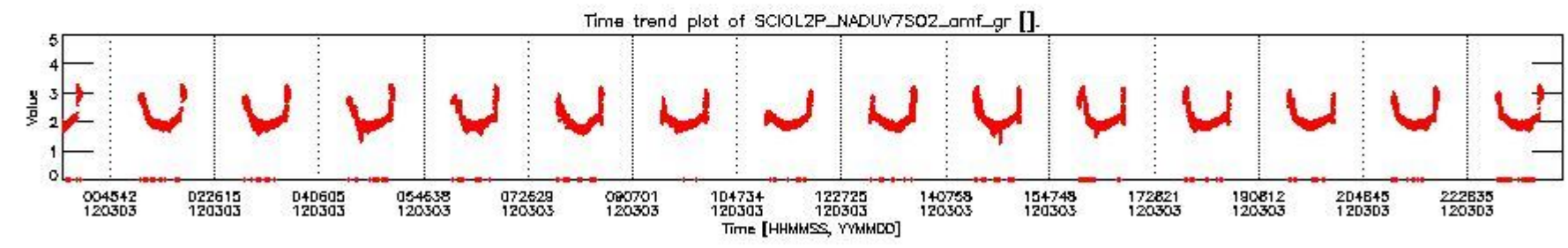
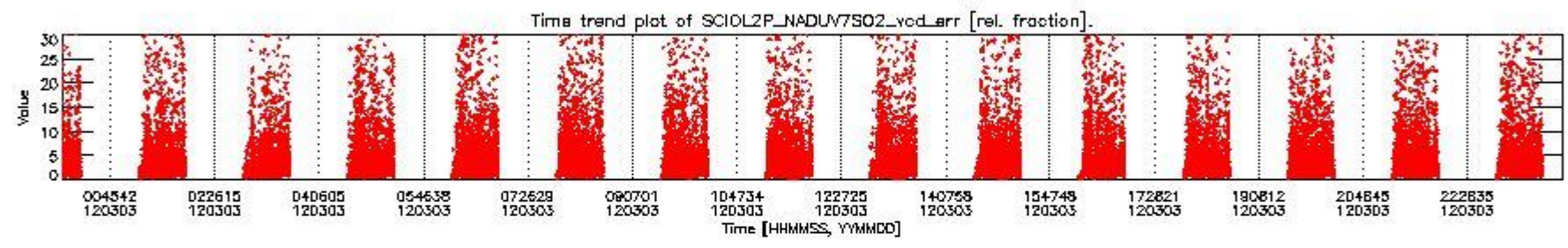
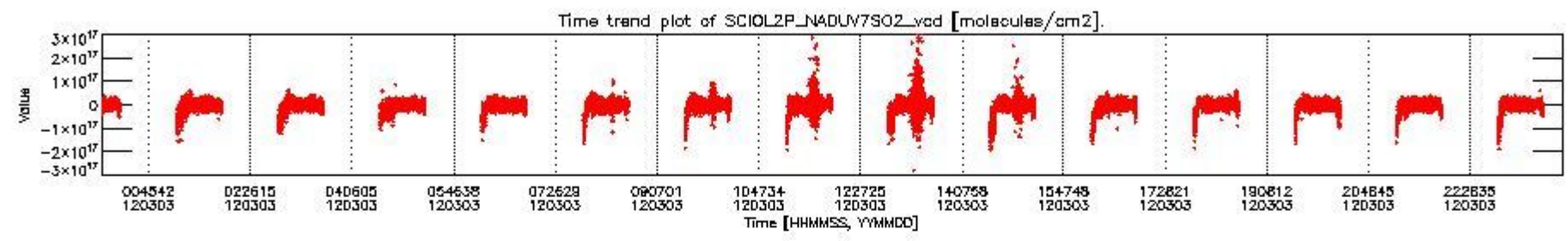
SCIOL2P_NADUV5SO2_amf_gr for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



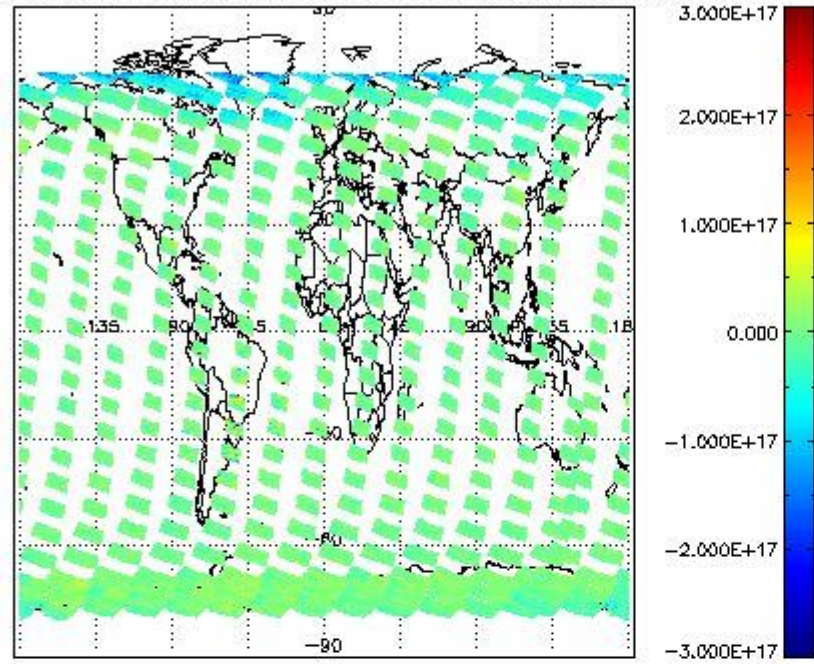
SCIOL2P_NADUV5SO2_amf_cl for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



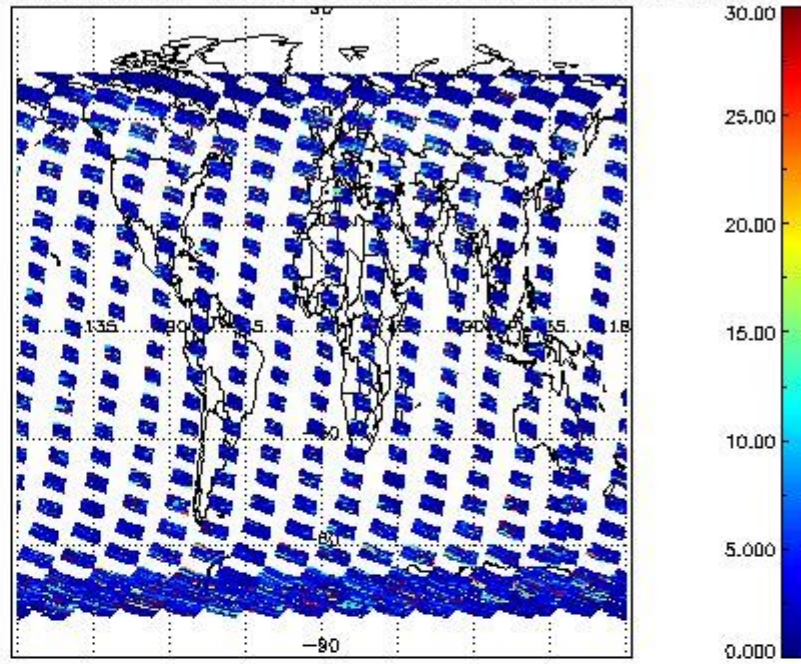
2.2.2.5 SO2 (UV7)



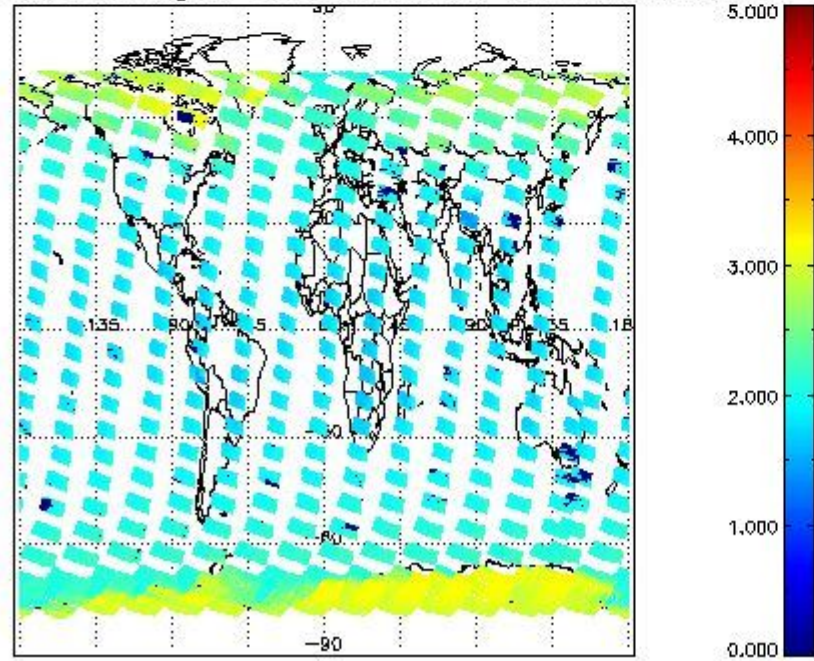
SCIOL2P_NADUV7S02_vcd for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



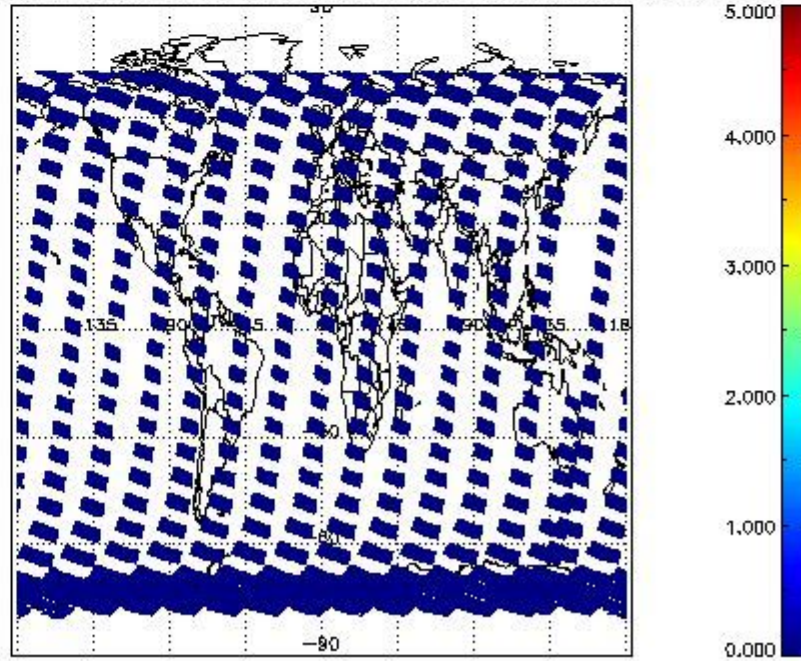
SCIOL2P_NADUV7S02_vcd_err for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



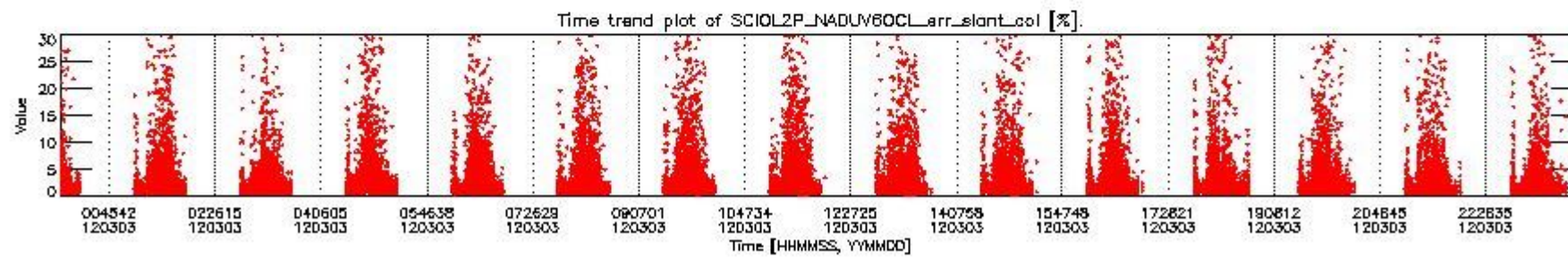
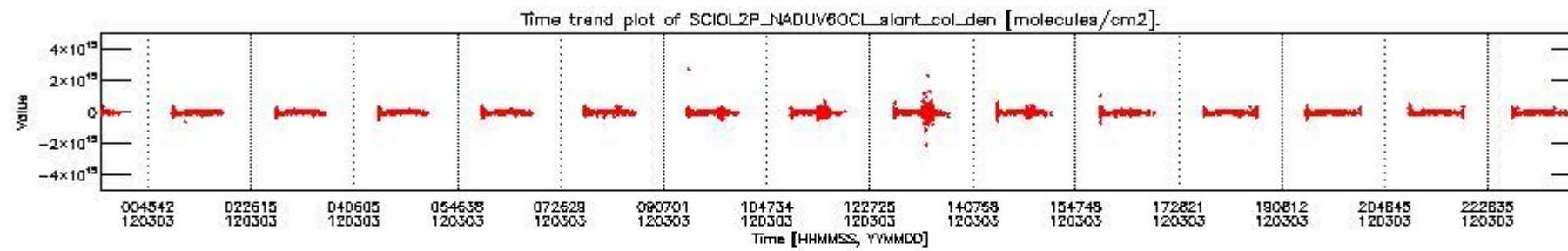
SCIOL2P_NADUV7S02_amf_gr for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



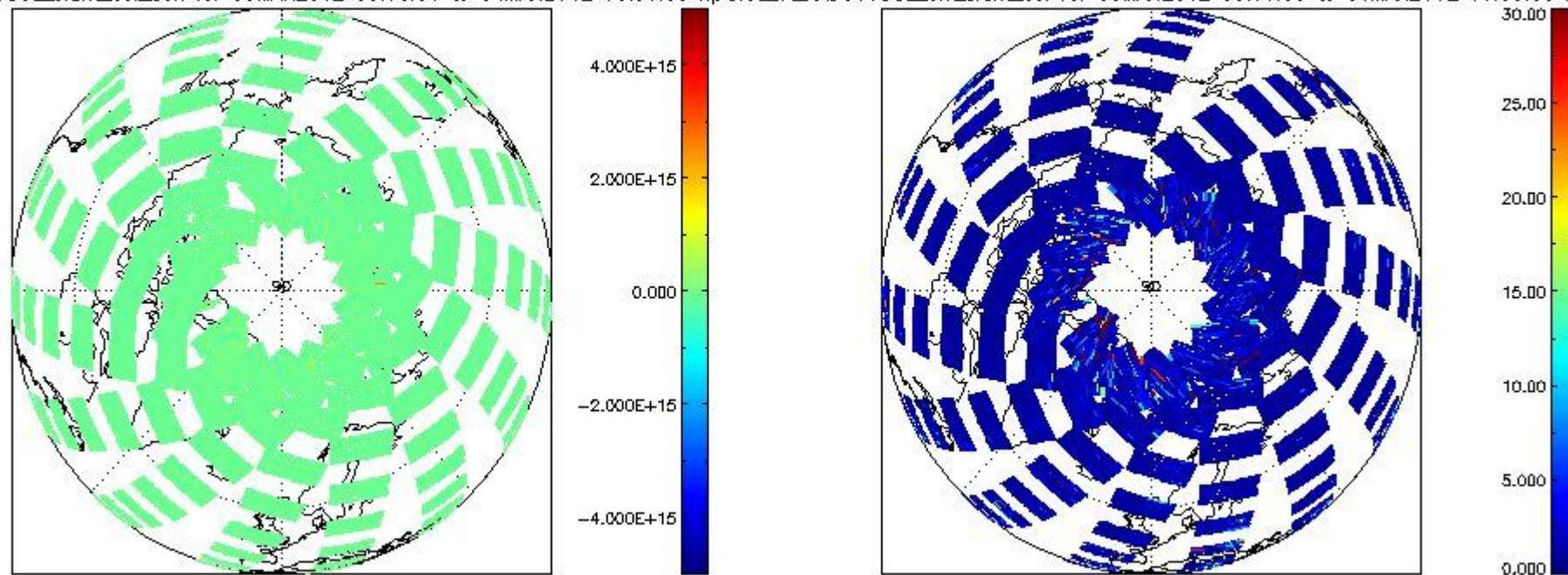
SCIOL2P_NADUV7S02_amf_cl for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



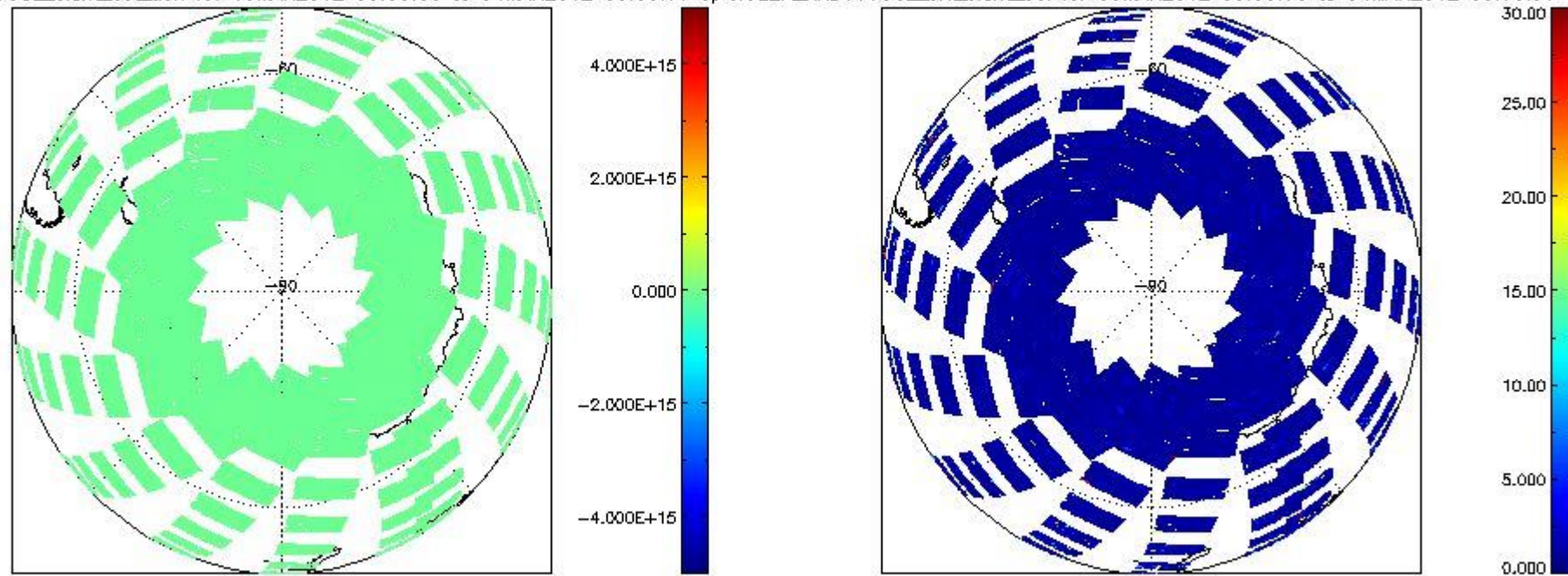
2.2.2.6 OCIO (UV6)



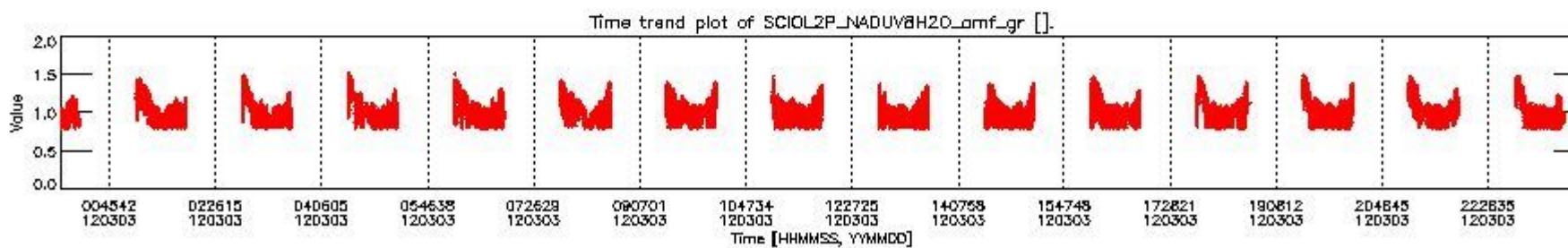
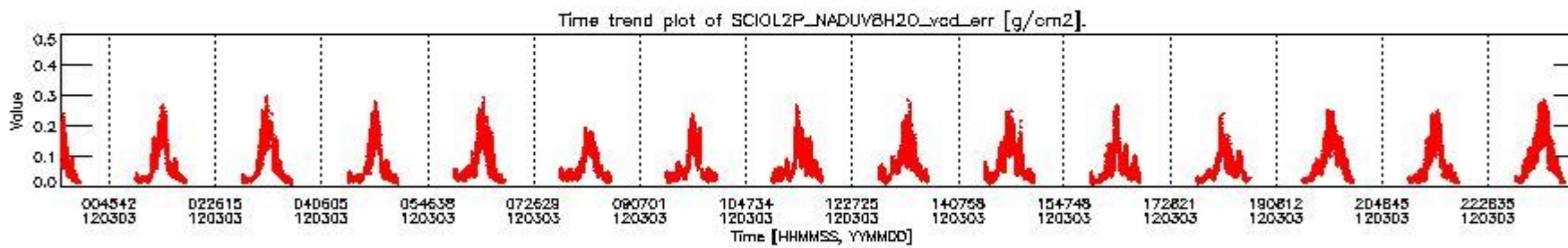
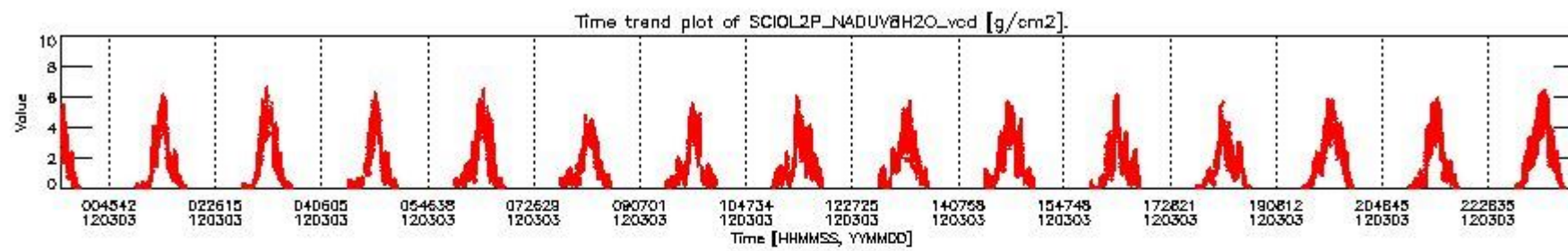
CIOL2P_NADUV6OCL_slant_col_den for 03MAR2012 00:00:00 to 04MAR2012 00:00:00 npCIOL2P_NADUV6OCL_err_slant_col for 03MAR2012 00:00:00 to 04MAR2012 00:00:00 np



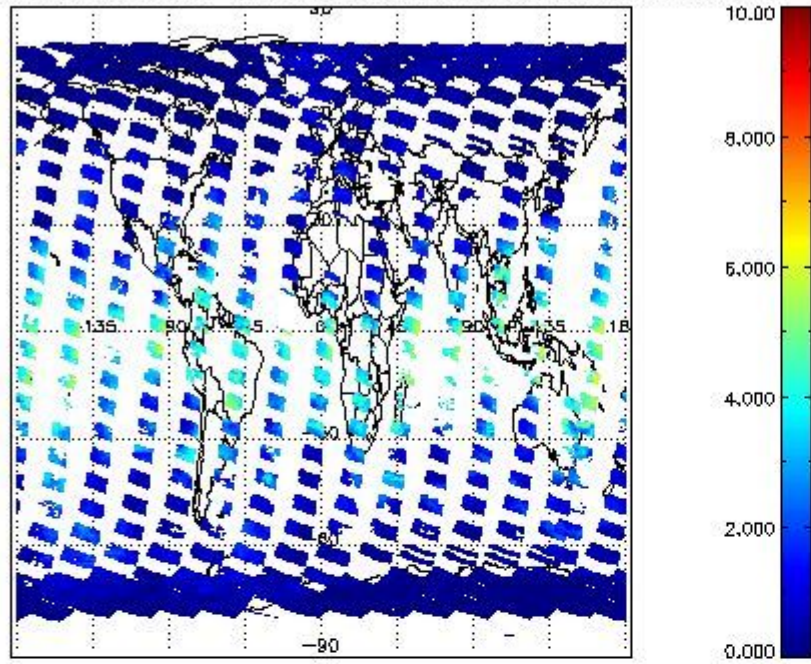
CIOL2P_NADUV6OCL_slant_coLden for 03MAR2012 00:00:00 to 04MAR2012 00:00:00 spCIOL2P_NADUV6OCL_err_slant_col for 03MAR2012 00:00:00 to 04MAR2012 00:00:00 sp



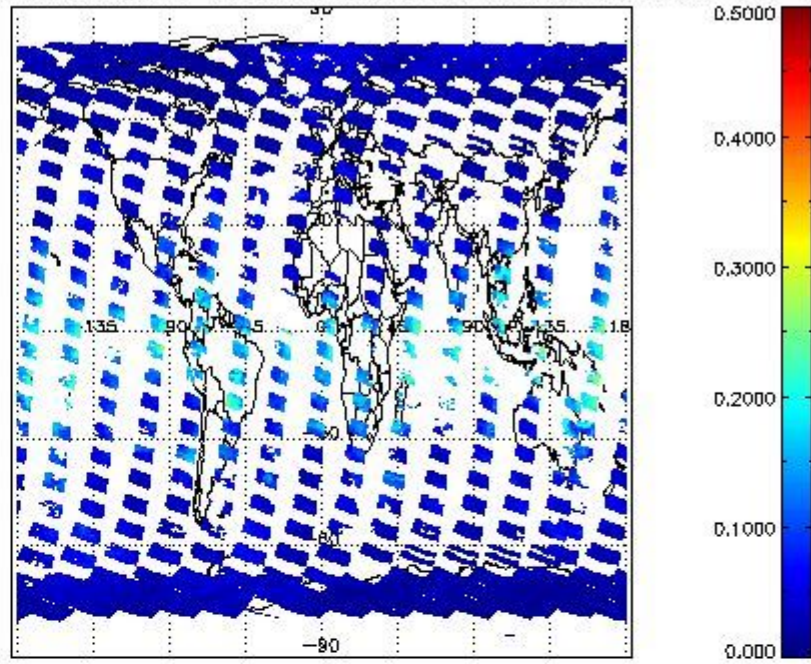
2.2.2.7 H2O (UV8)



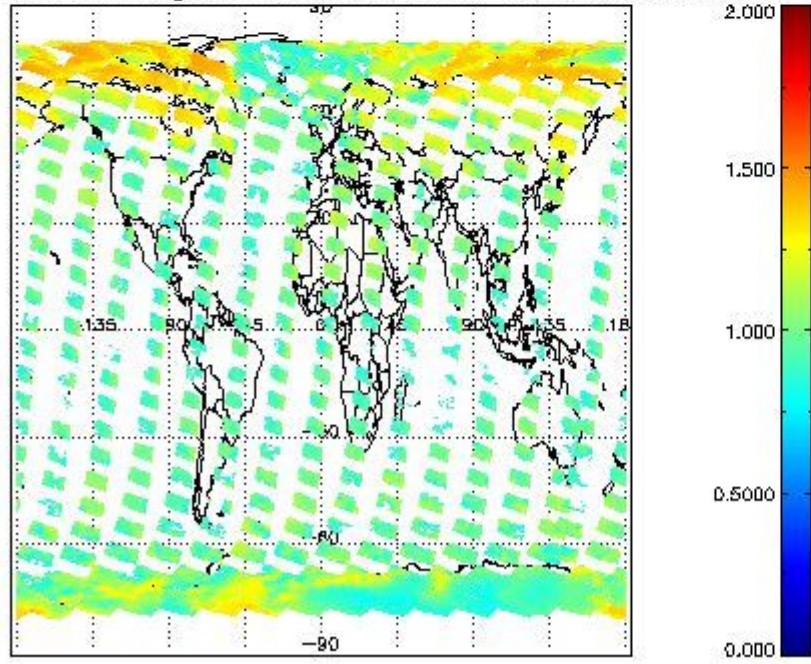
SCIOL2P_NADUV8H2O_vcd for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



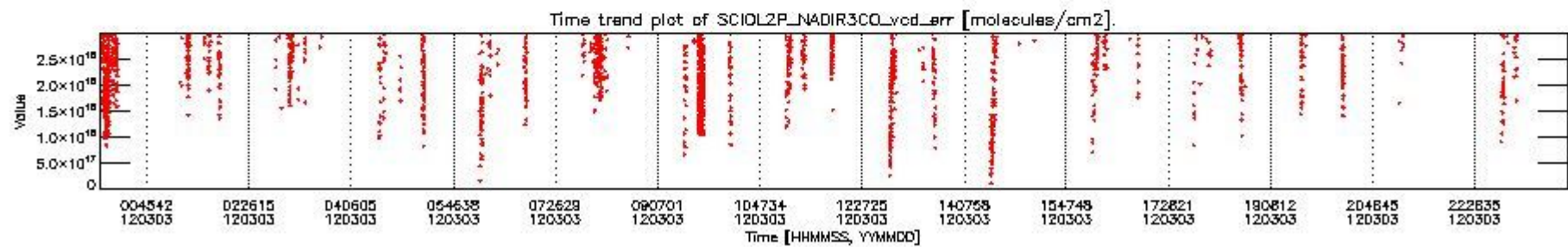
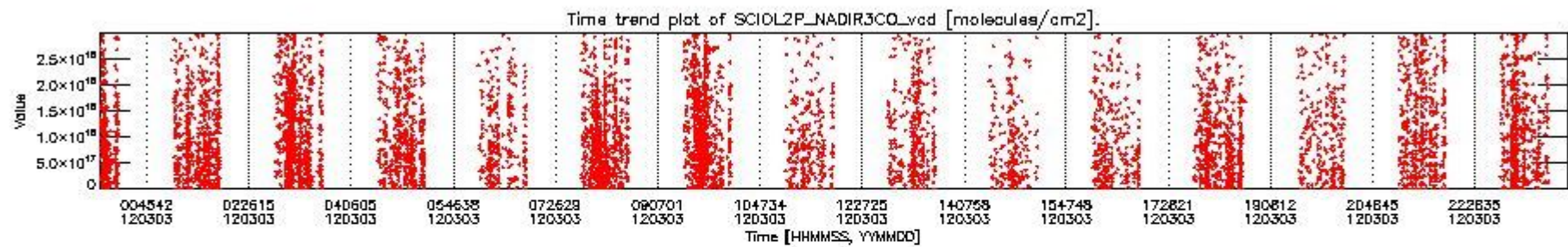
SCIOL2P_NADUV8H2O_vcd_err for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



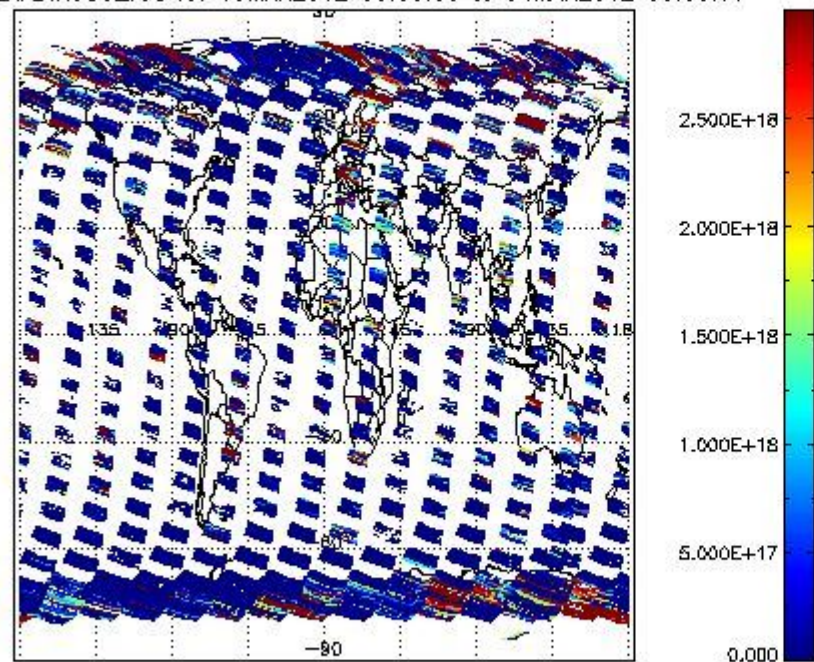
SCIOL2P_NADUV8H2O_arnf_gr for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



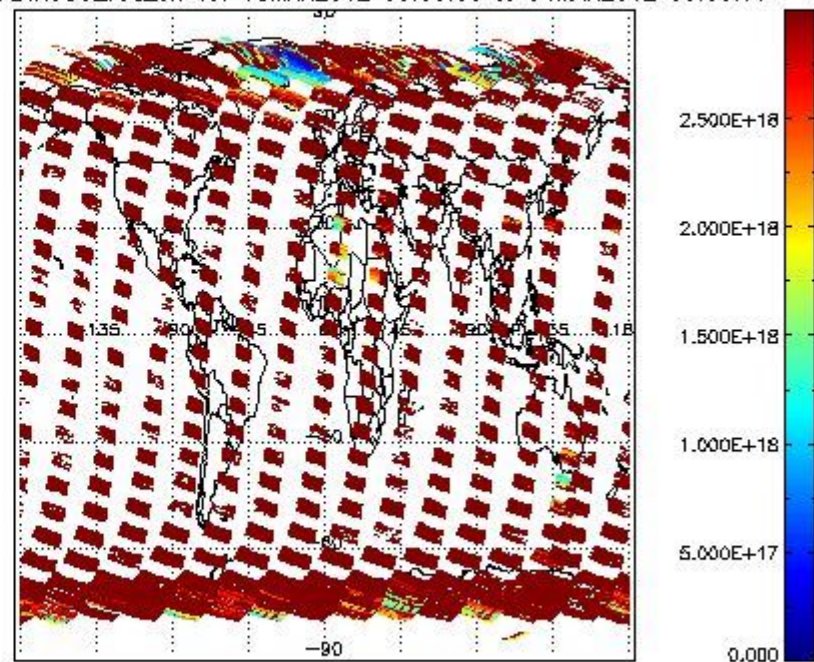
2.2.2.8 CO (IR3)



SCIOL2P_NADIR3CO_vcd for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



SCIOL2P_NADIR3CO_vcd_err for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



2.2.3 Limb

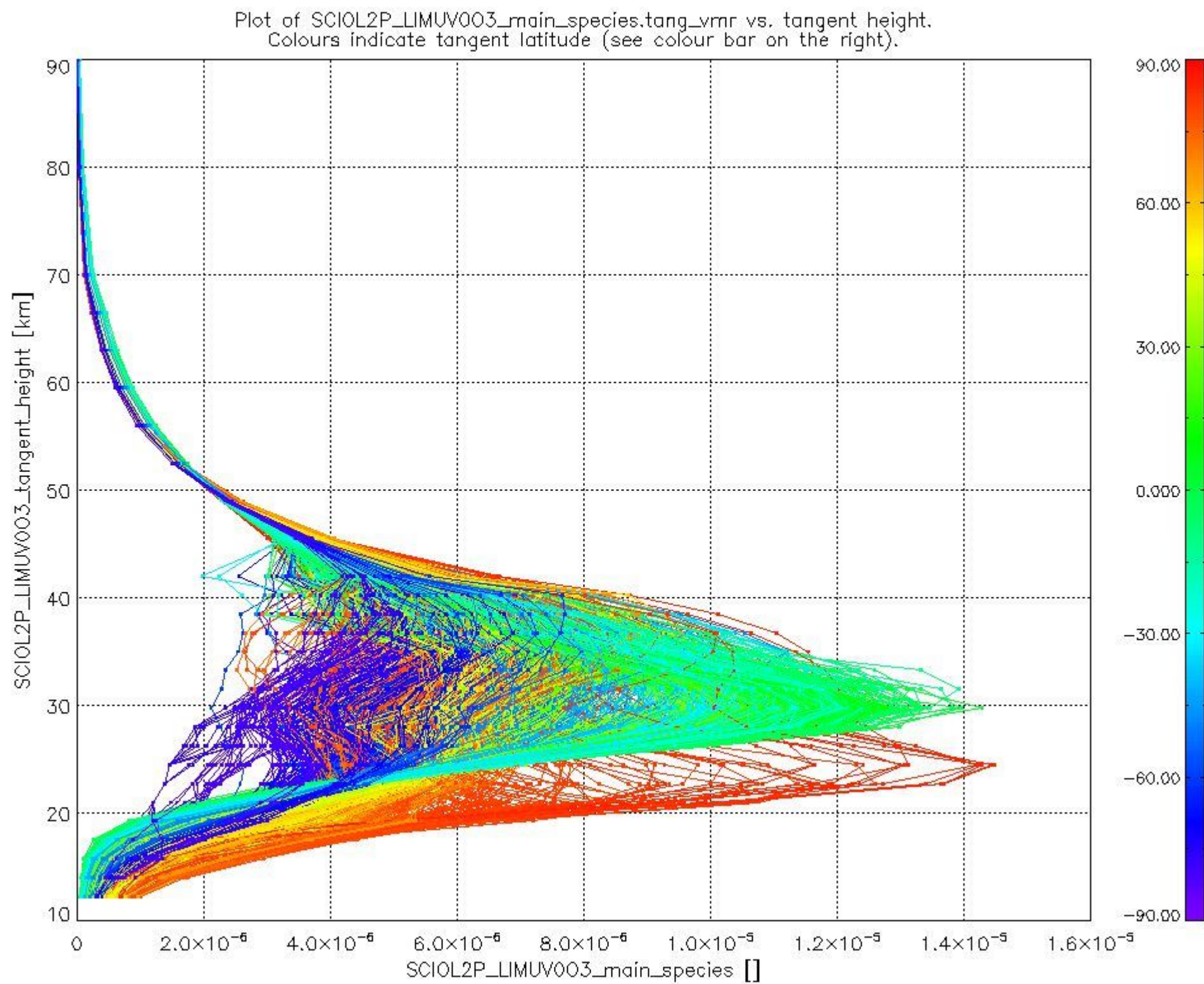
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

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

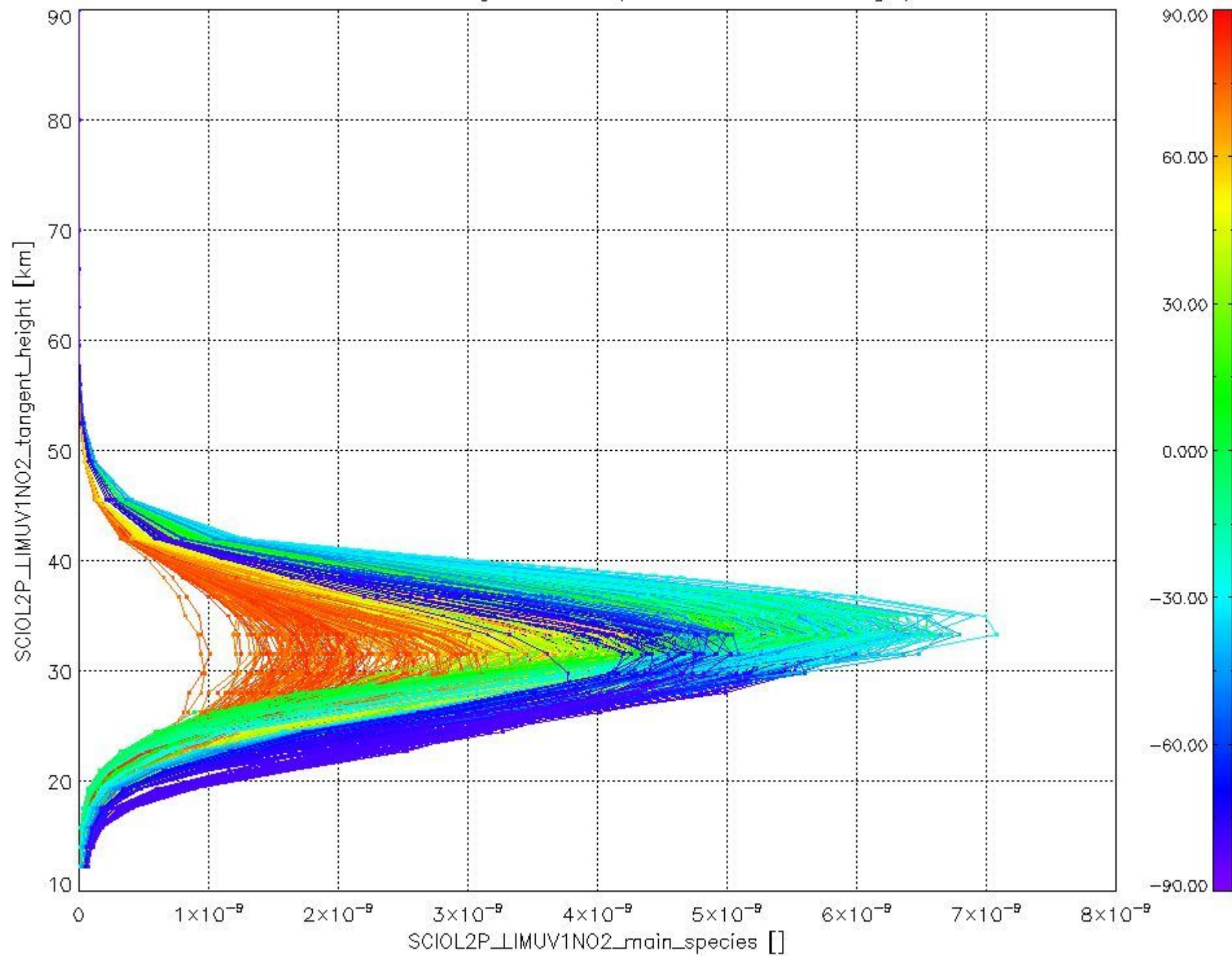
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



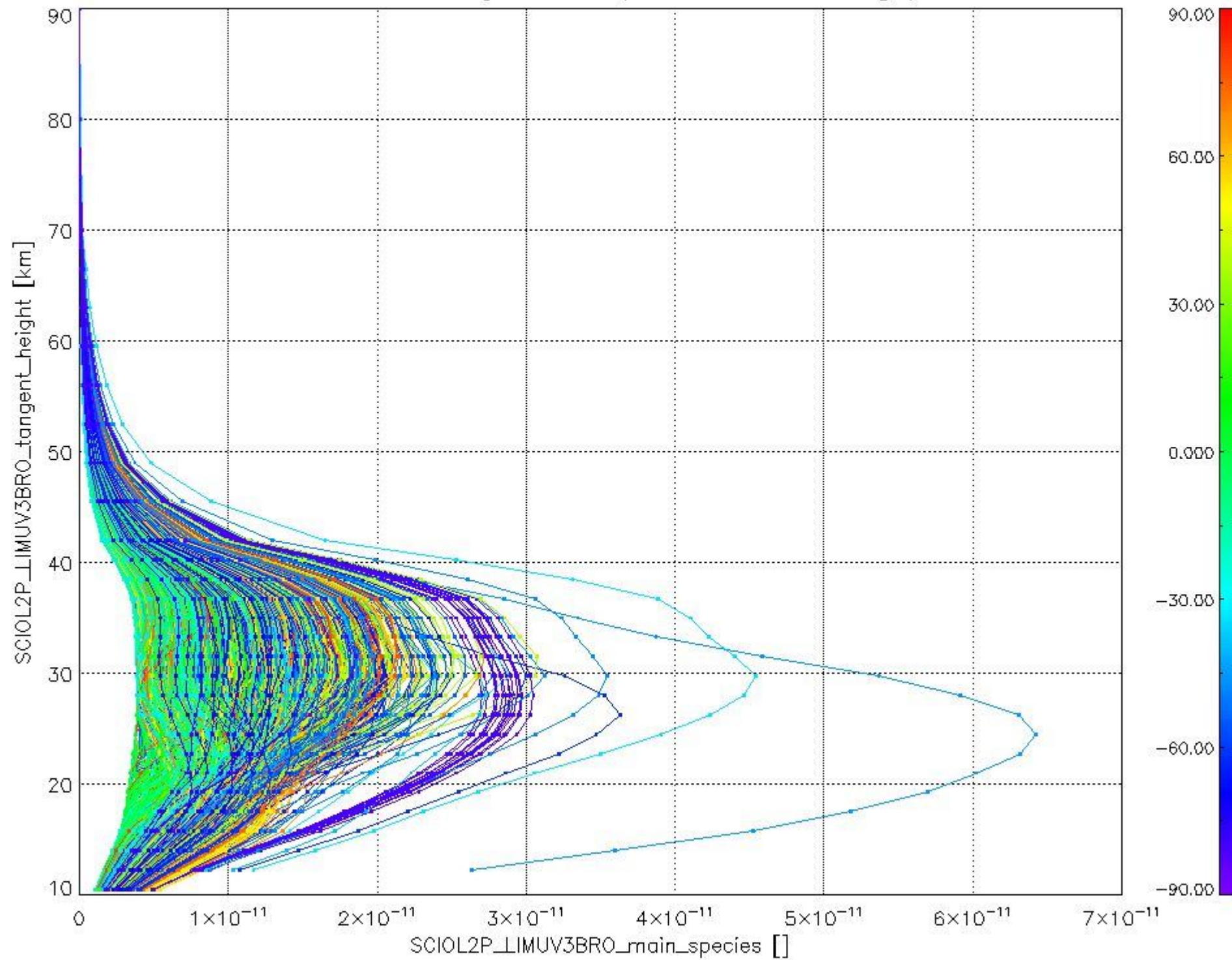
2.2.3.2 NO2 (UV1)

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)

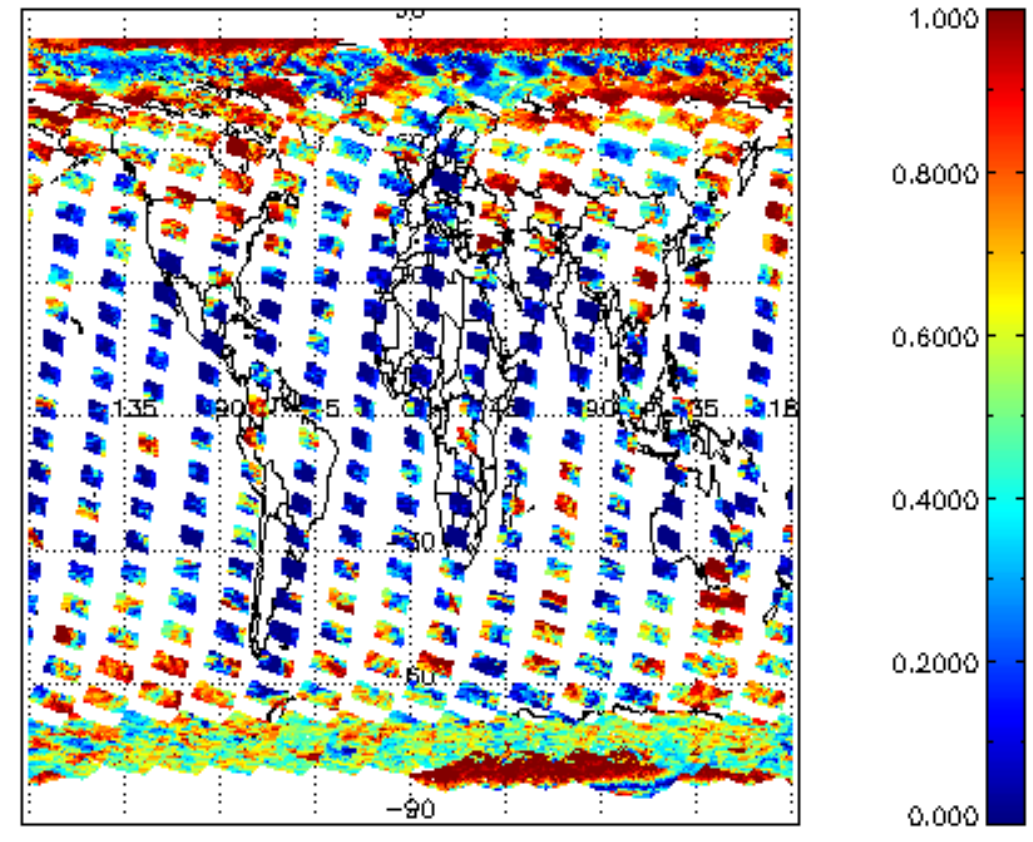
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



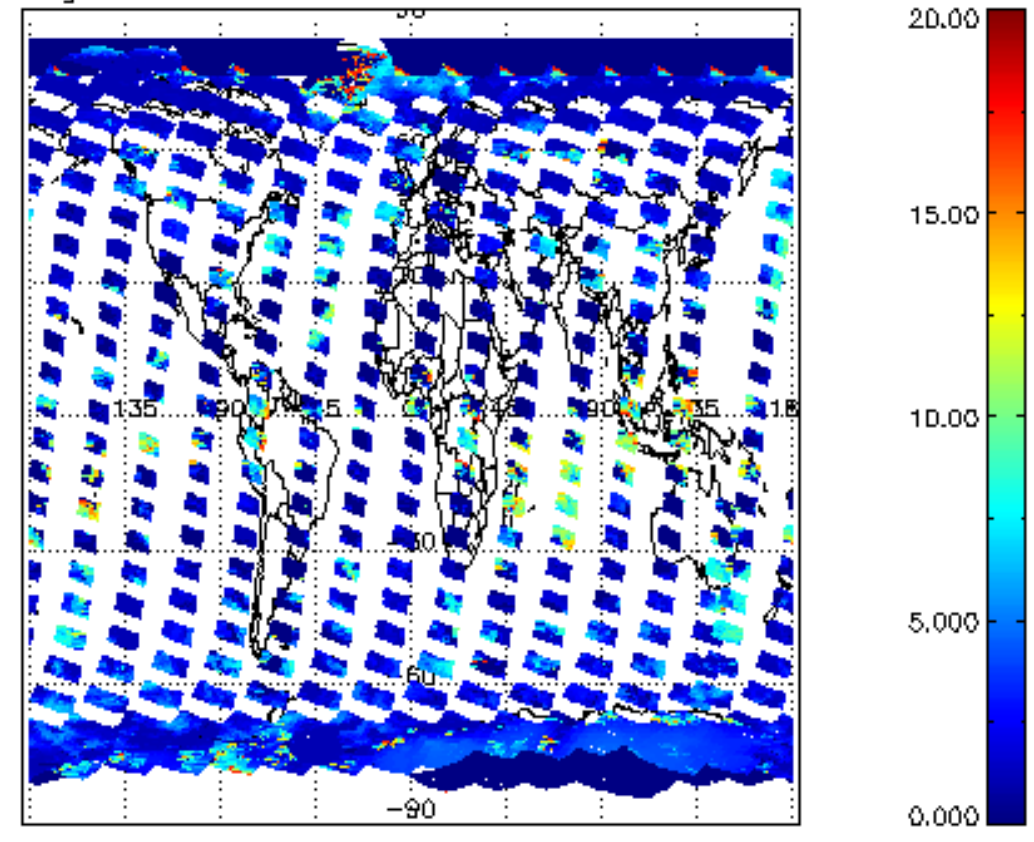
2.3 ADF monitoring

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_AXVIEC20120306_134604_20120302_192625_20120304_192625
3	SCI_MF1_AXVIEC20120306_134710_20120303_184939_20120305_184939

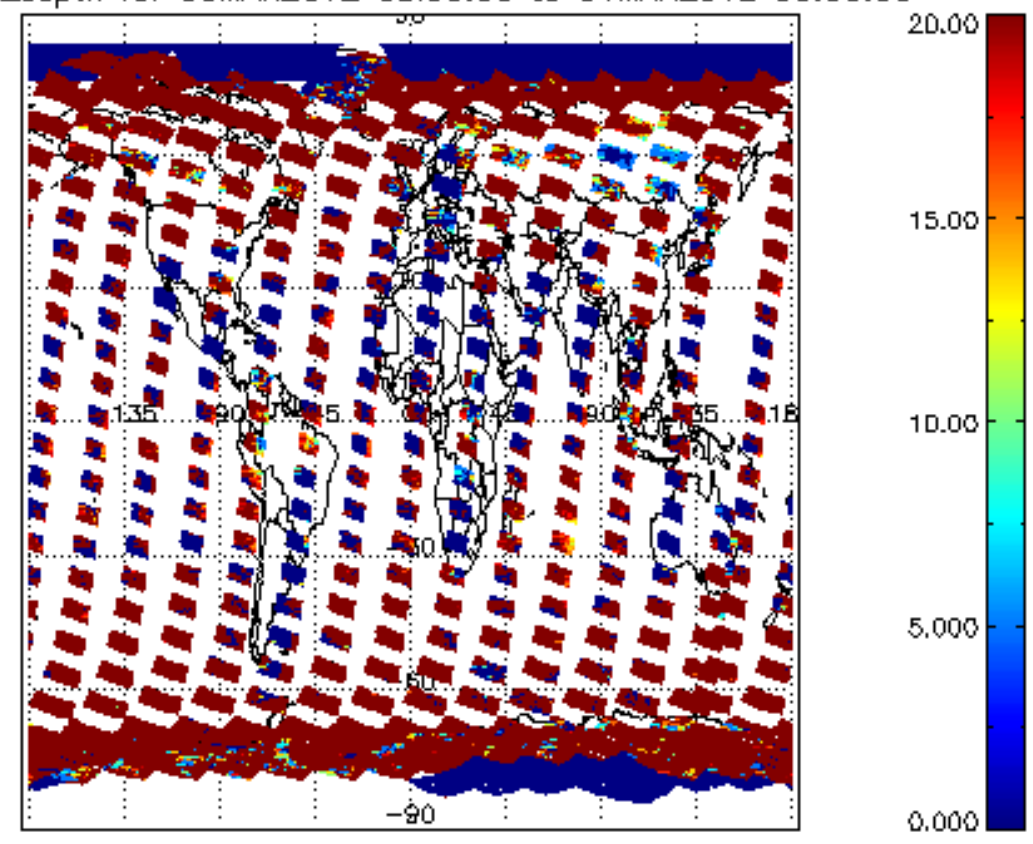
cL_frac for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



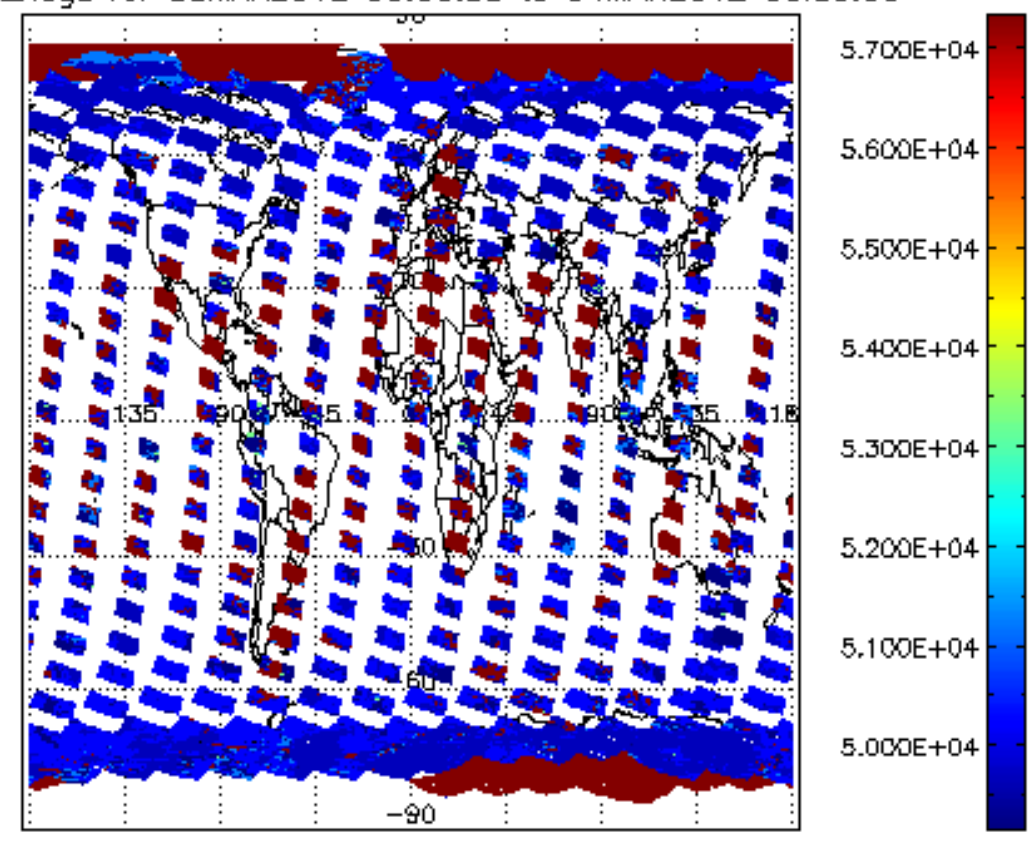
cL_top_height for 03MAR2012 00:00:00 to 04MAR2012 00:00:00

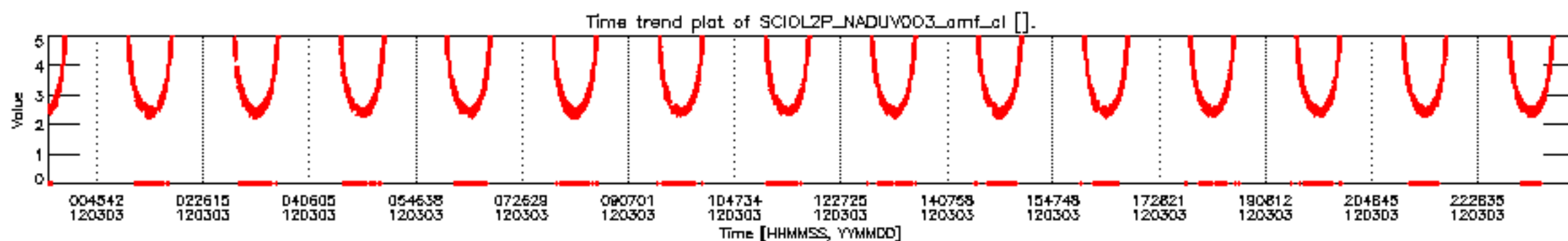
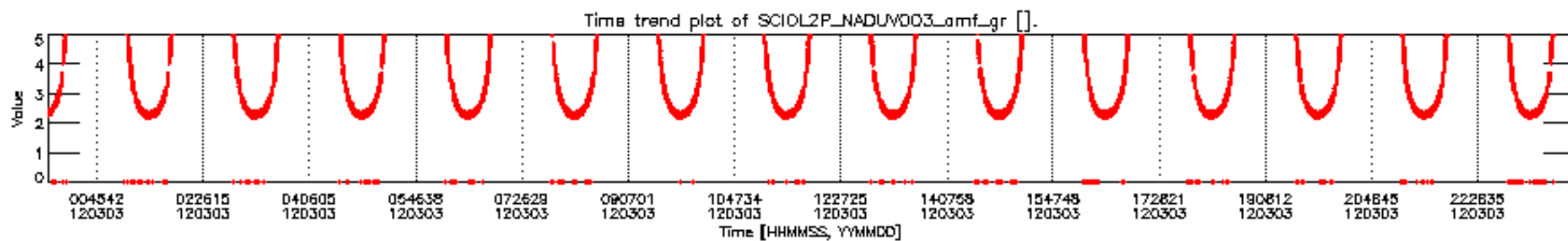
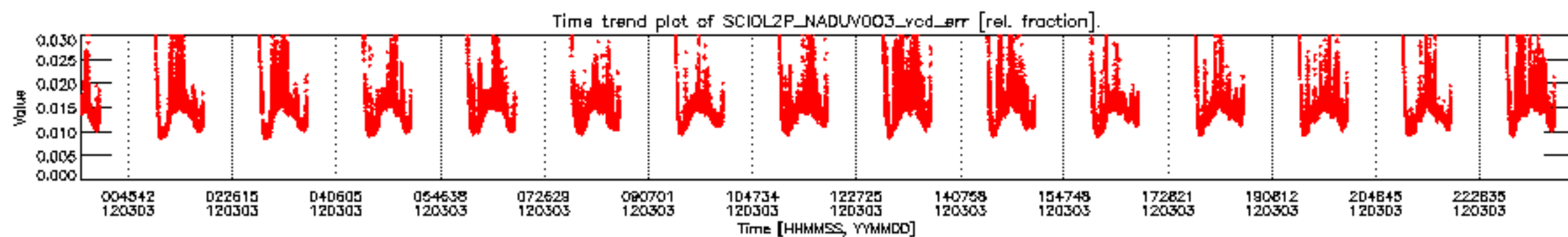
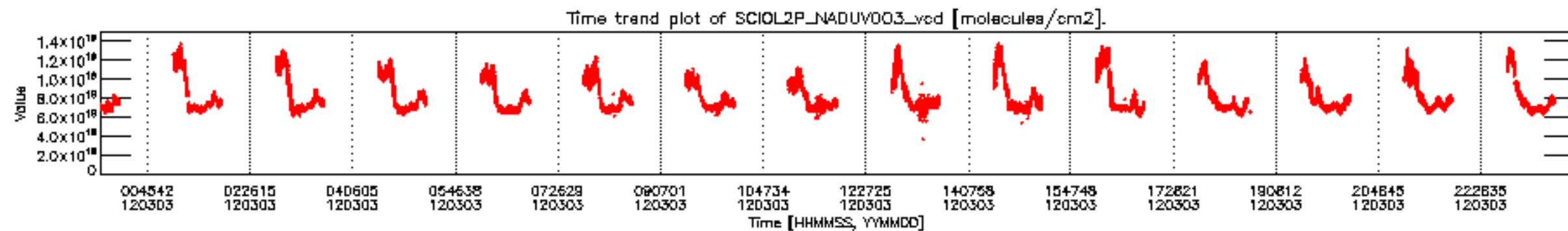


cL_opt_depth for 03MAR2012 00:00:00 to 04MAR2012 00:00:00

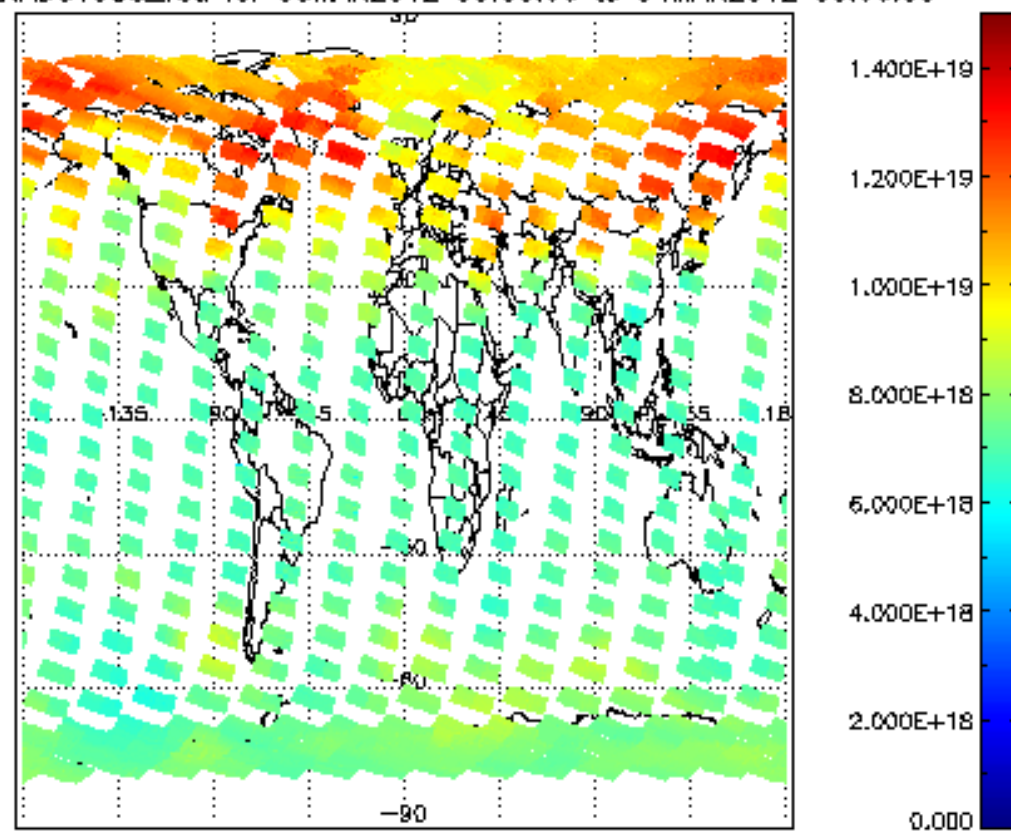


cloud_flags for 03MAR2012 00:00:00 to 04MAR2012 00:00:00

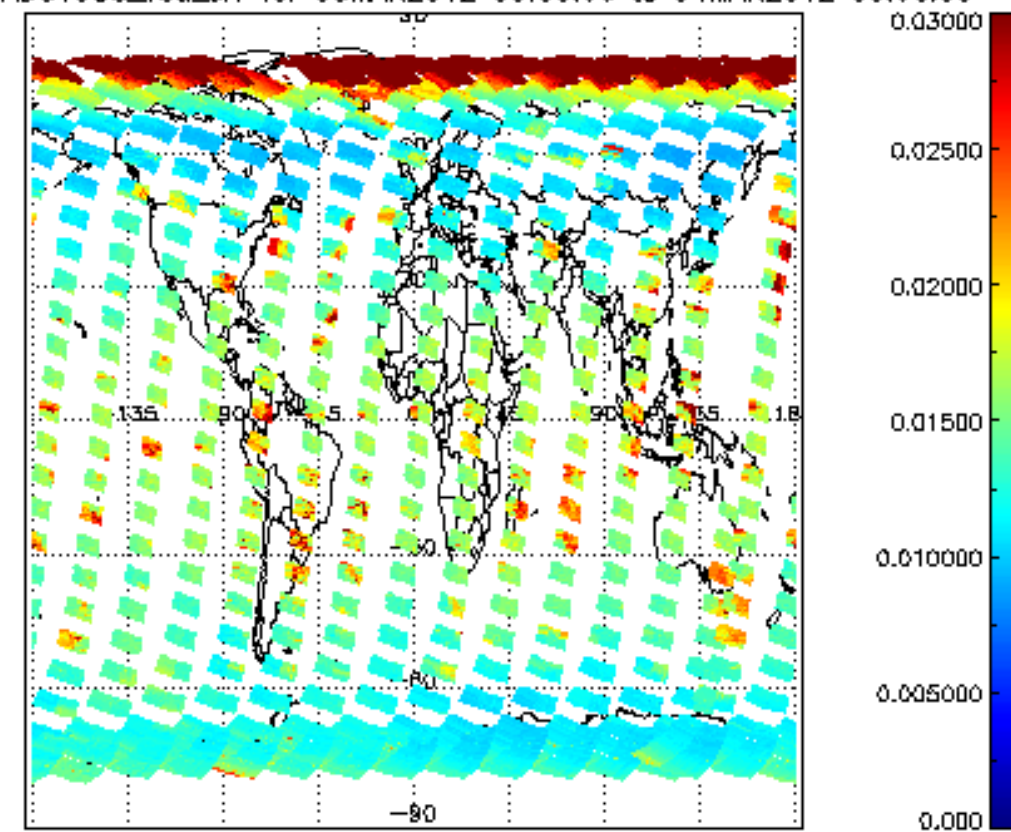




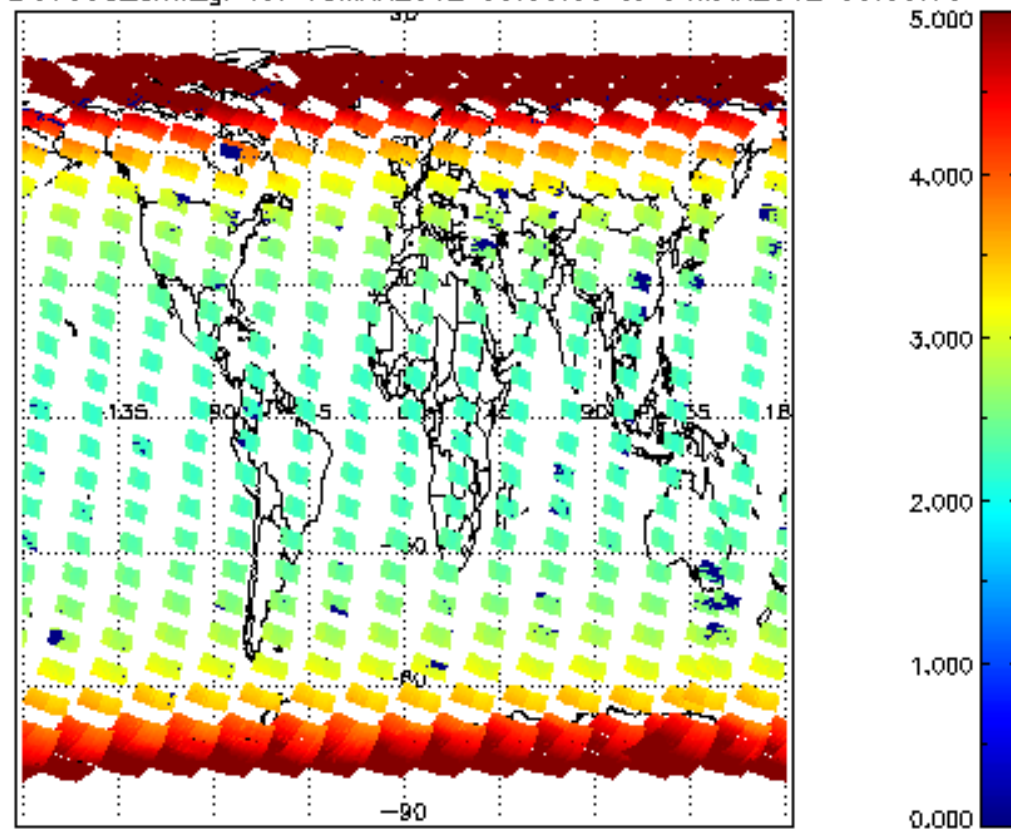
SCIOL2P_NADUV003_vcd for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



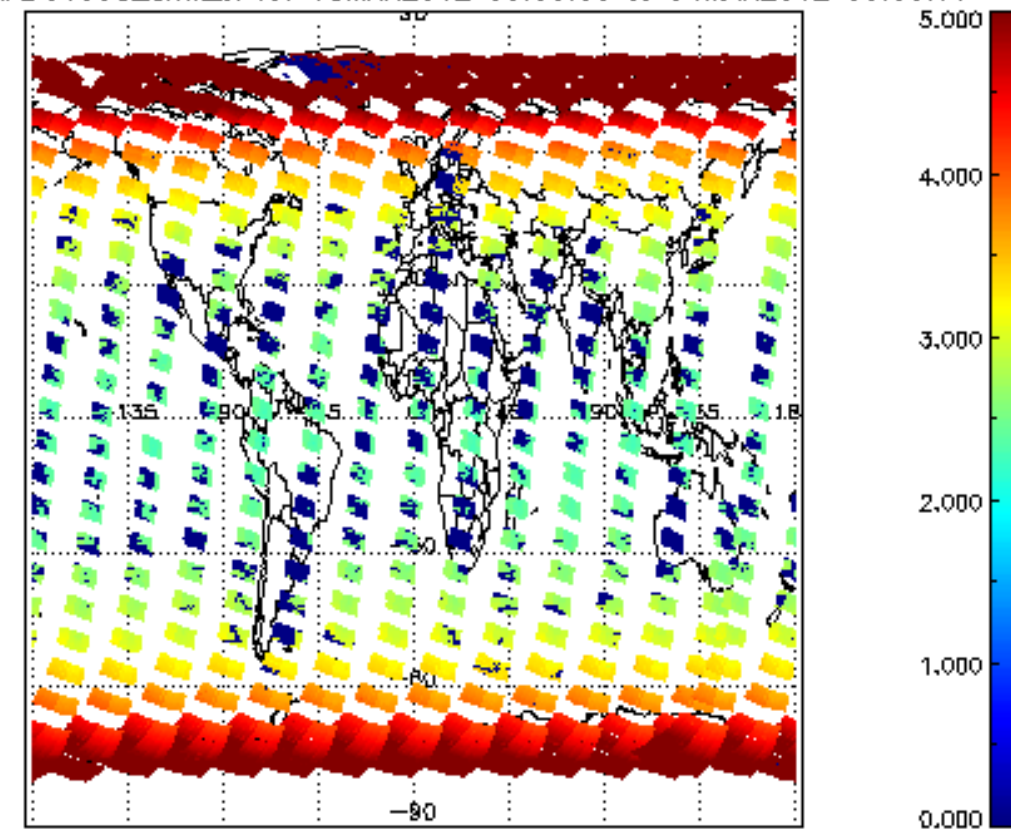
SCIOL2P_NADUV003_vcd_err for 03MAR2012 00:00:00 to 04MAR2012 00:00:00

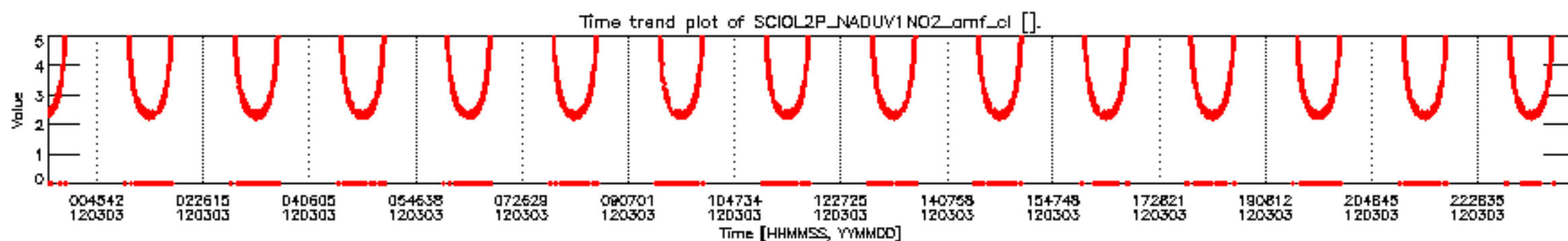
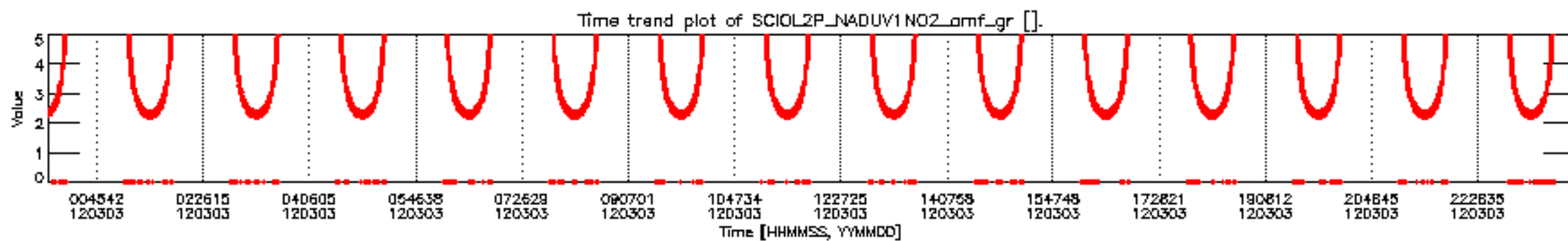
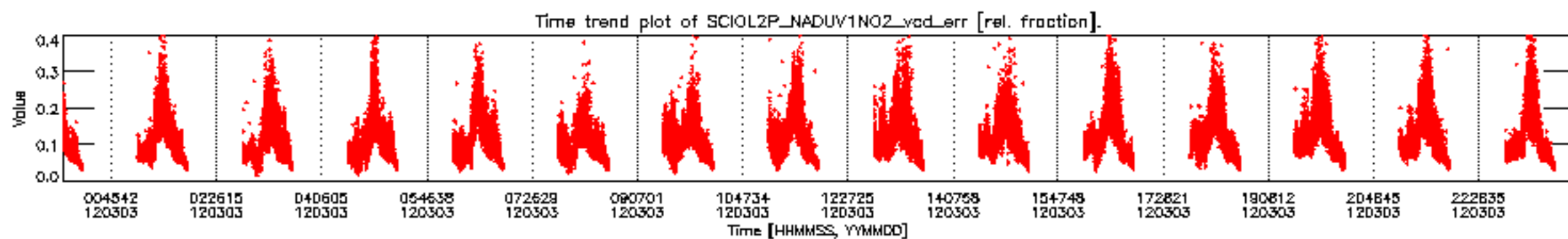
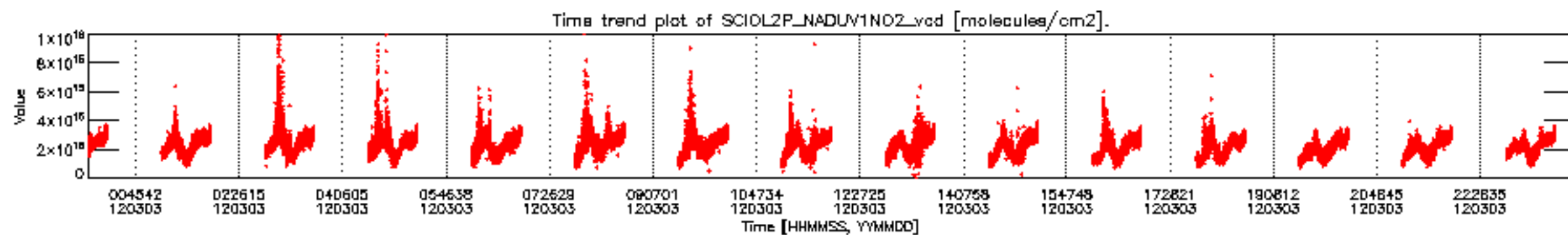


SCIOL2P_NADUV003_arnf_gr for 03MAR2012 00:00:00 to 04MAR2012 00:00:00

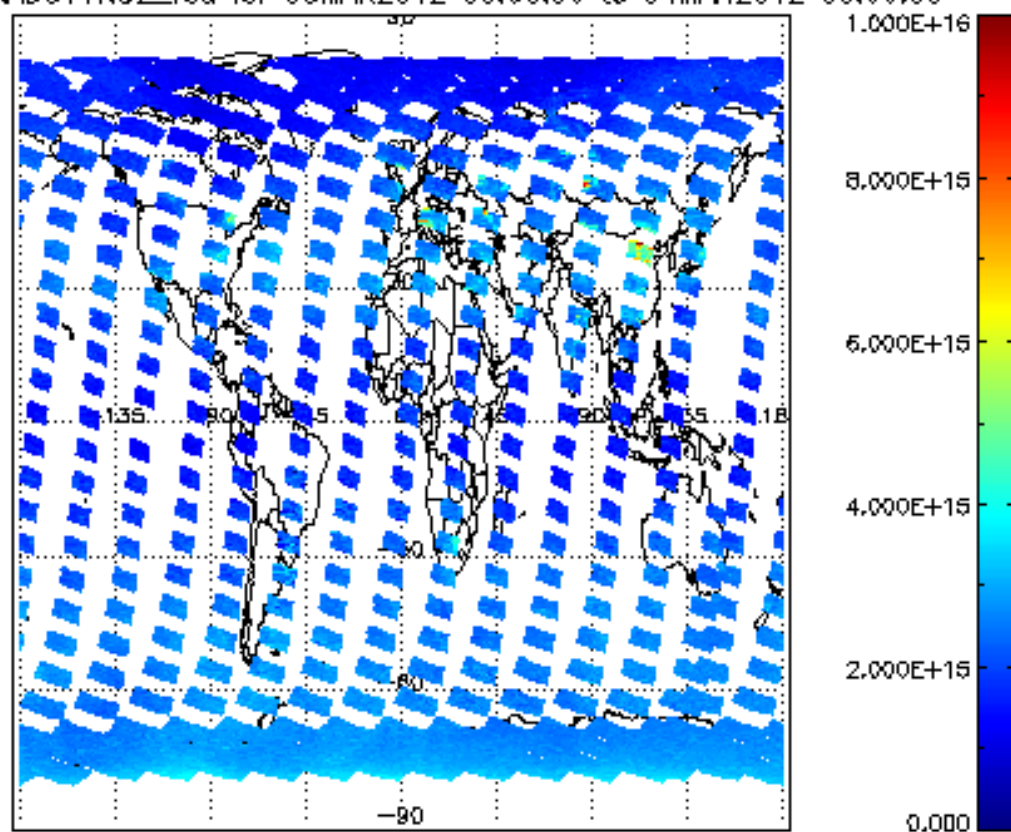


SCIOL2P_NADUV003_arnf_cl for 03MAR2012 00:00:00 to 04MAR2012 00:00:00

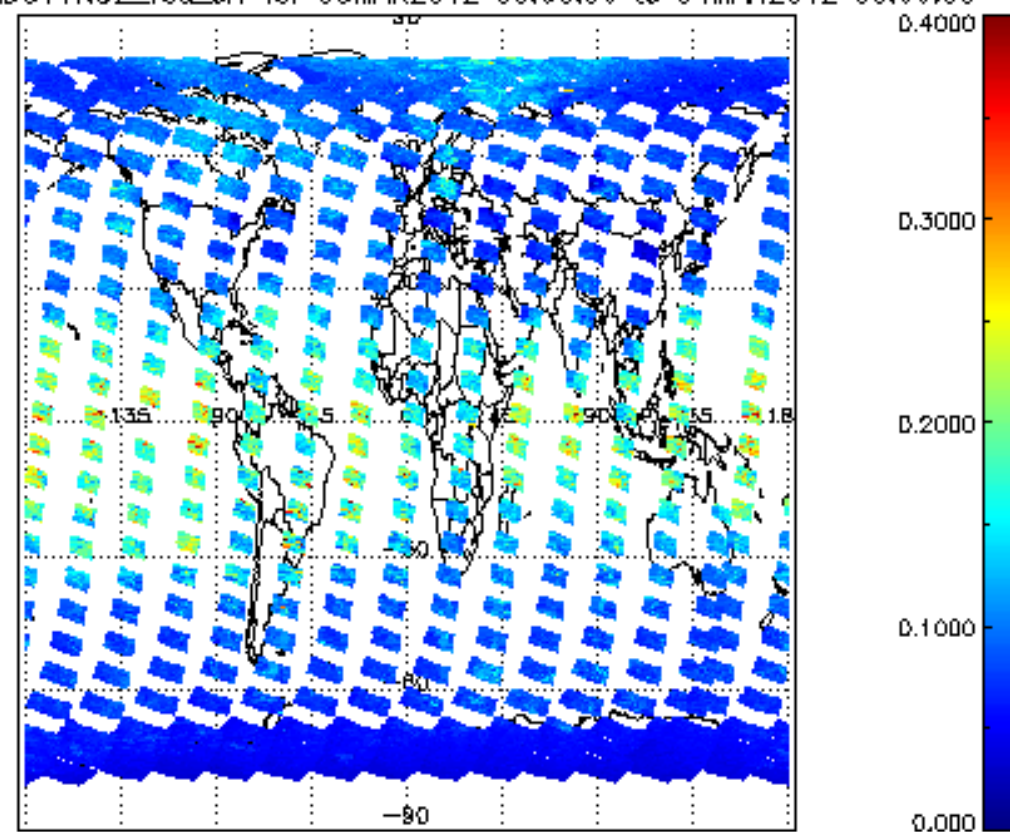




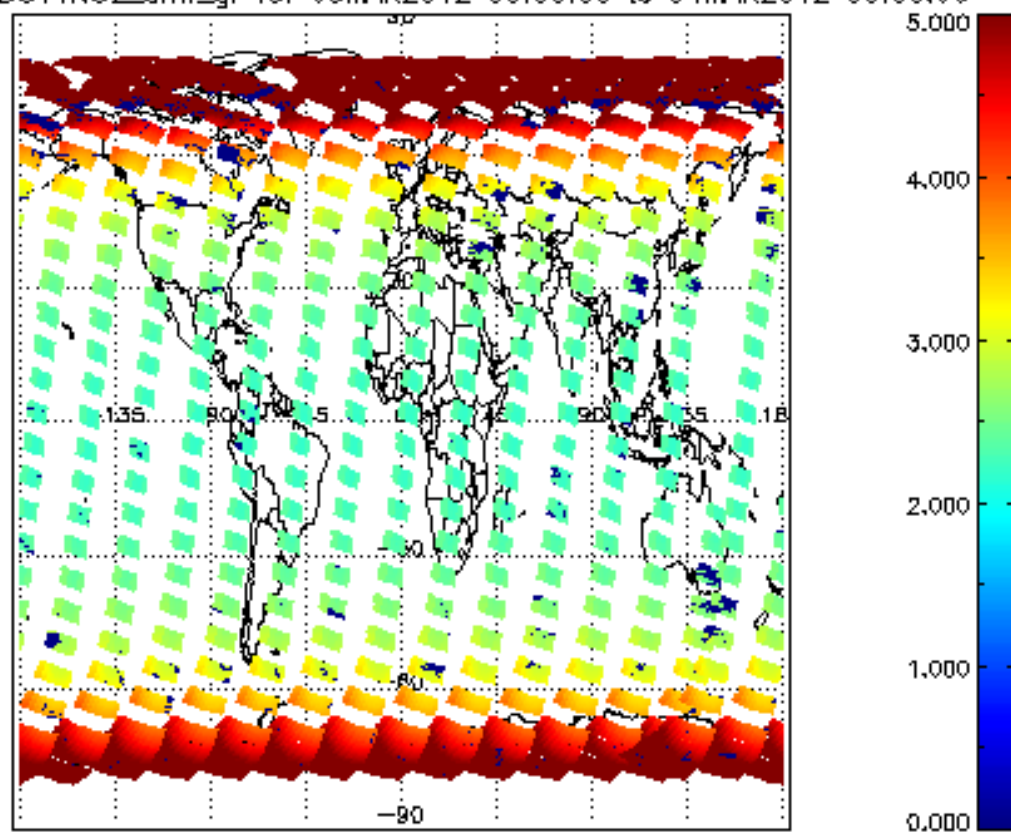
SCIOL2P_NADUV1NO2_vcd for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



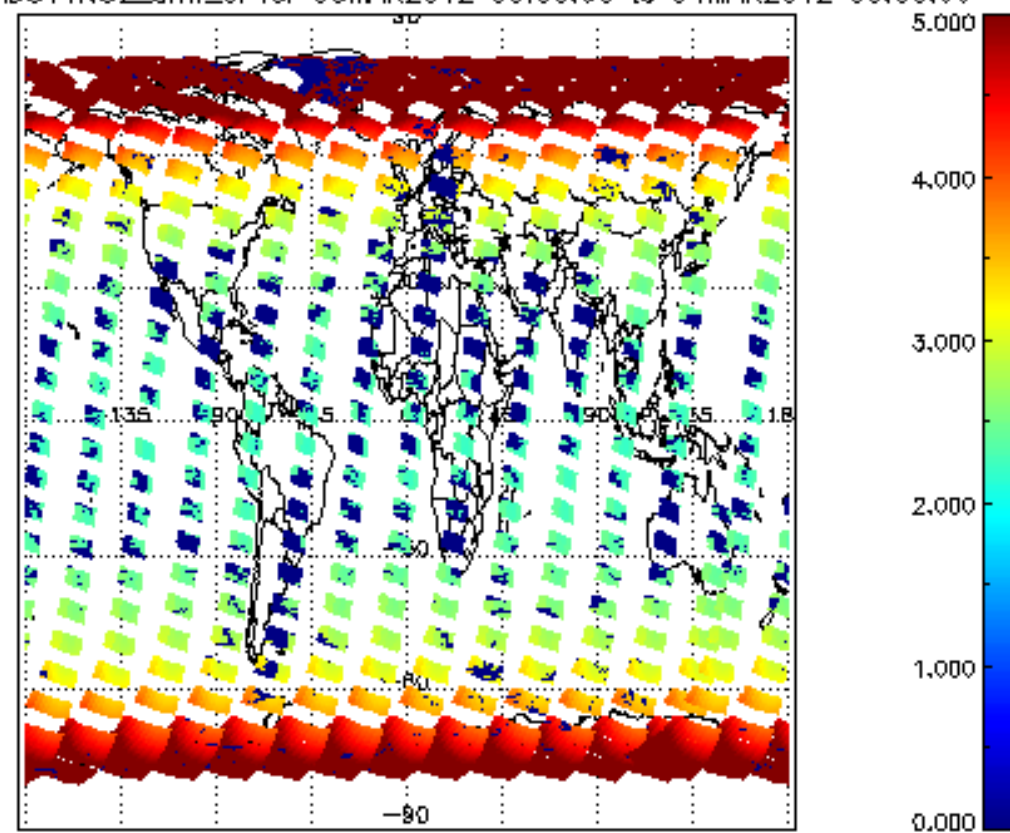
SCIOL2P_NADUV1NO2_vcd_err for 03MAR2012 00:00:00 to 04MAR2012 00:00:00

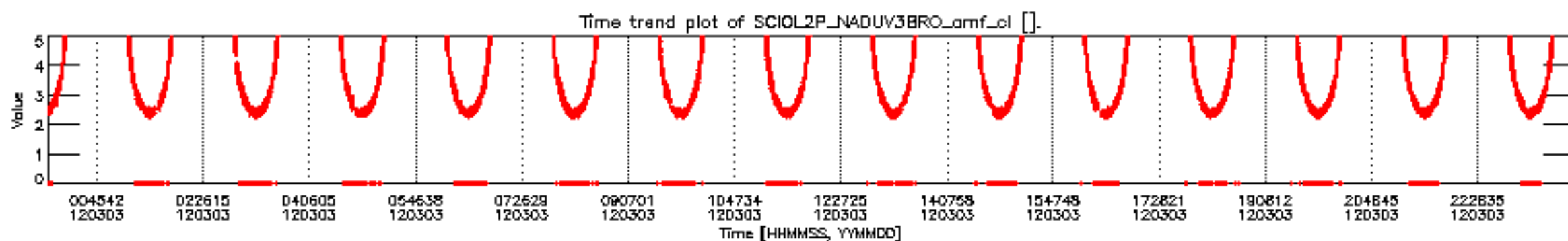
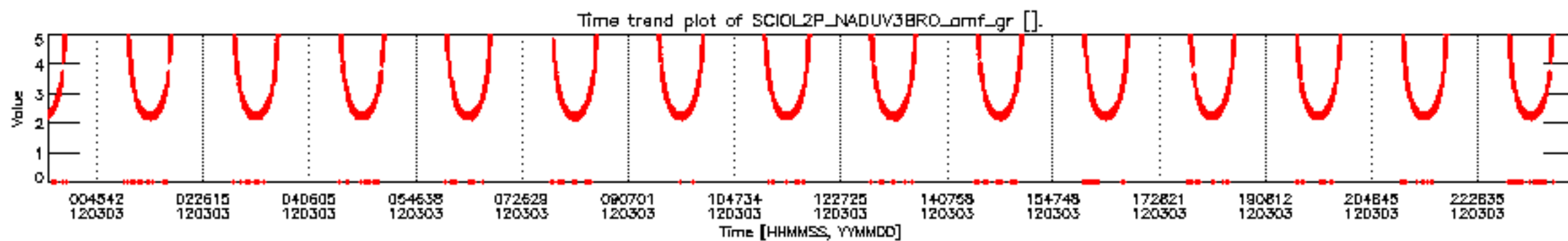
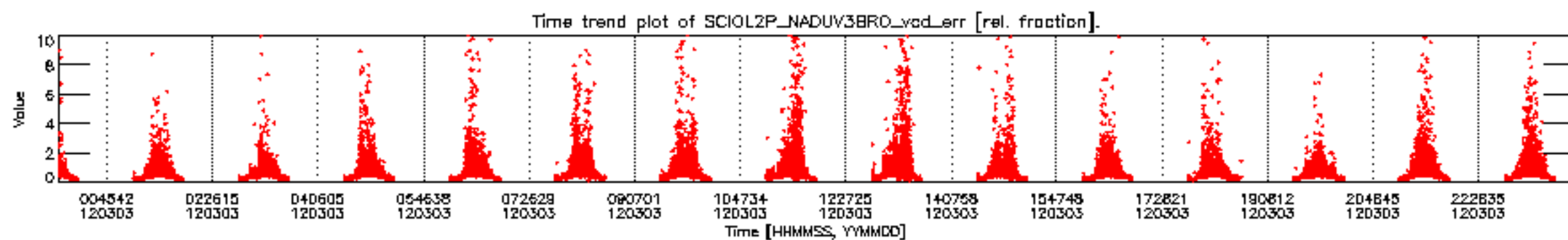
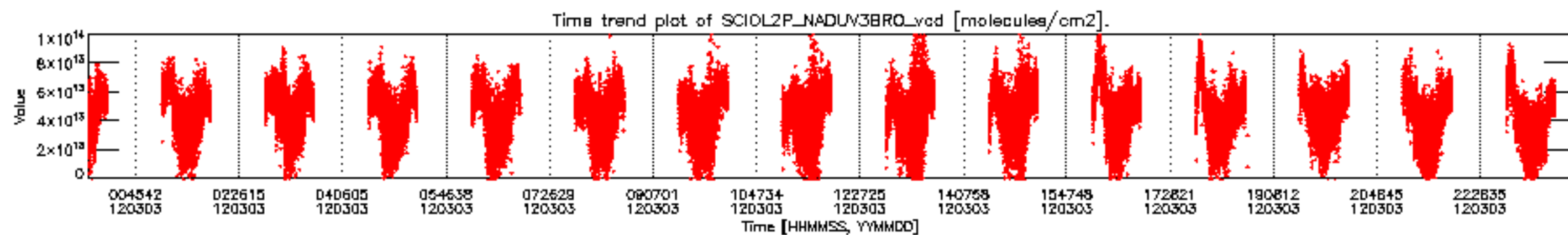


SCIOL2P_NADUV1NO2_amf_gr for 03MAR2012 00:00:00 to 04MAR2012 00:00:00

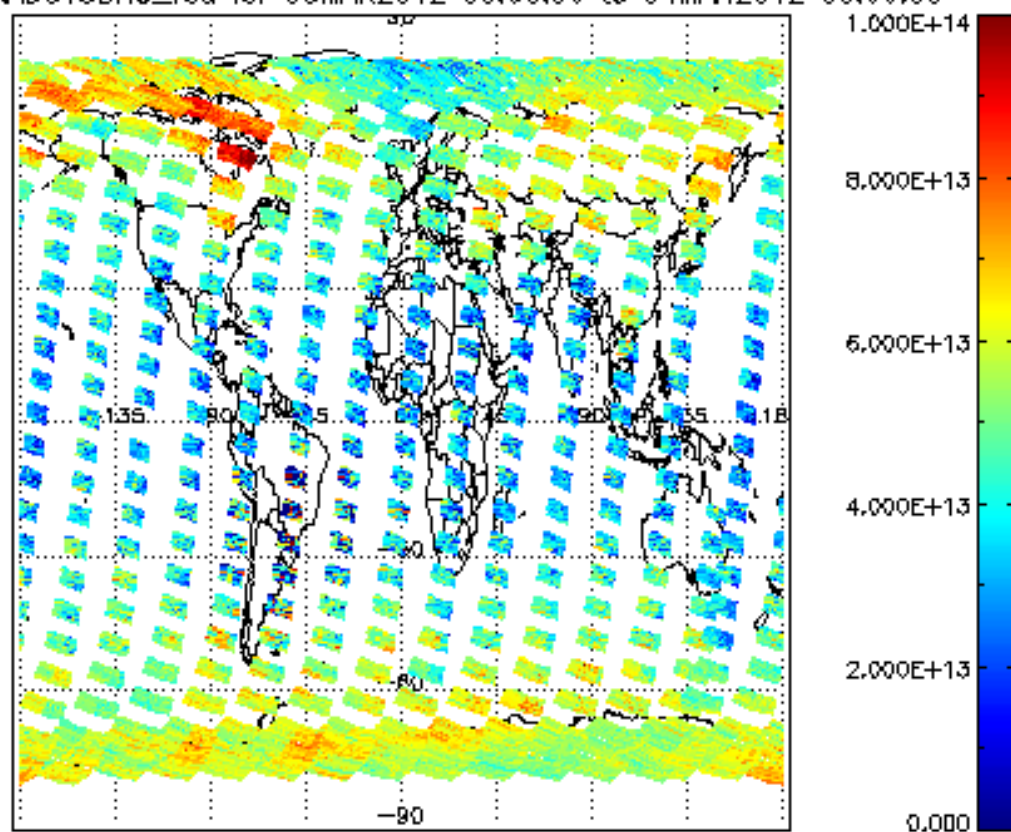


SCIOL2P_NADUV1NO2_amf_cl for 03MAR2012 00:00:00 to 04MAR2012 00:00:00

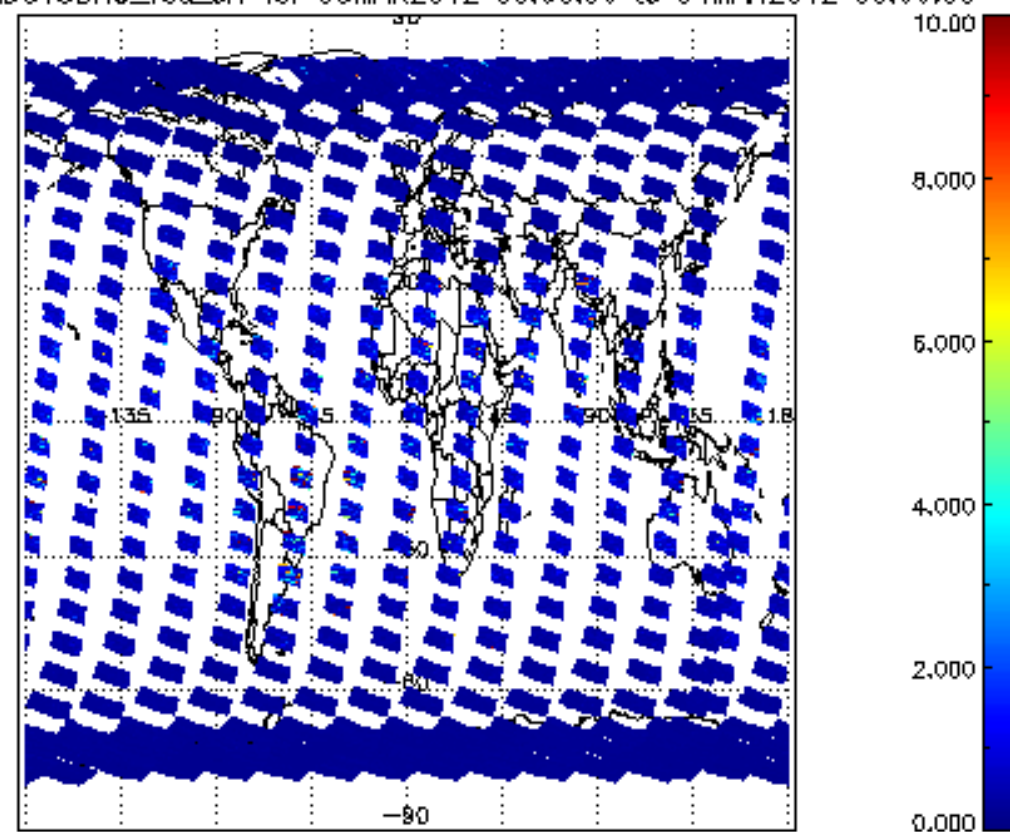




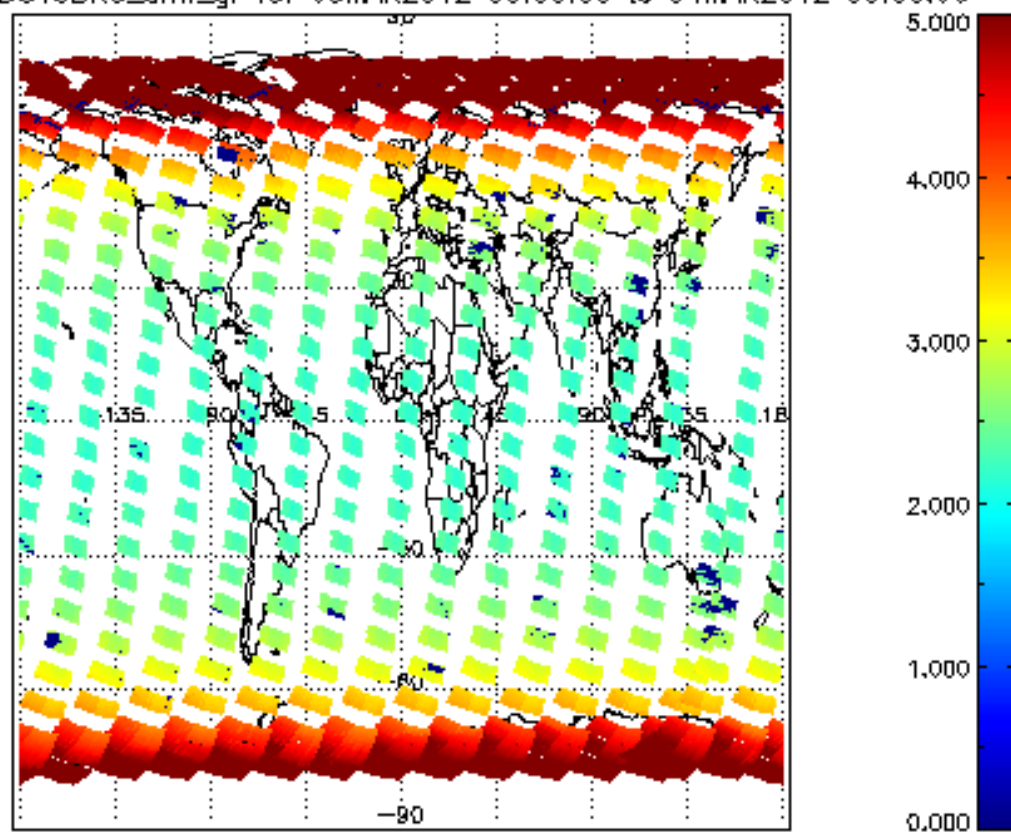
SCIOL2P_NADUV3BRO_vcd for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



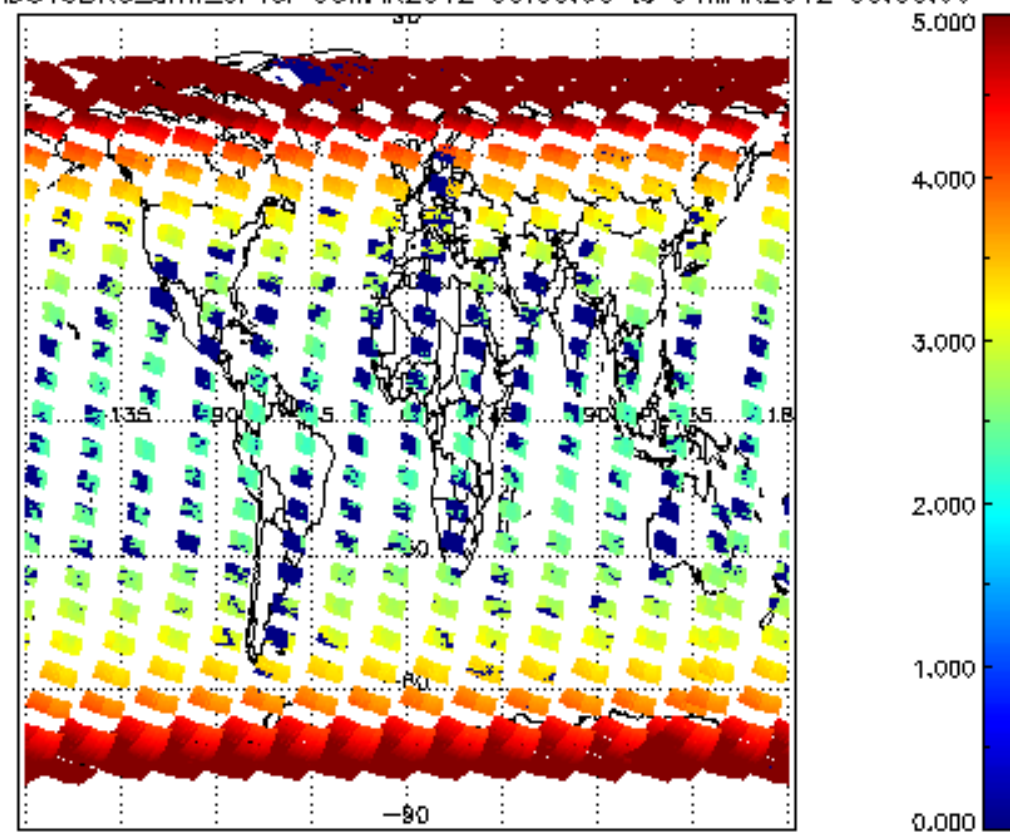
SCIOL2P_NADUV3BRO_vcd_Lerr for 03MAR2012 00:00:00 to 04MAR2012 00:00:00

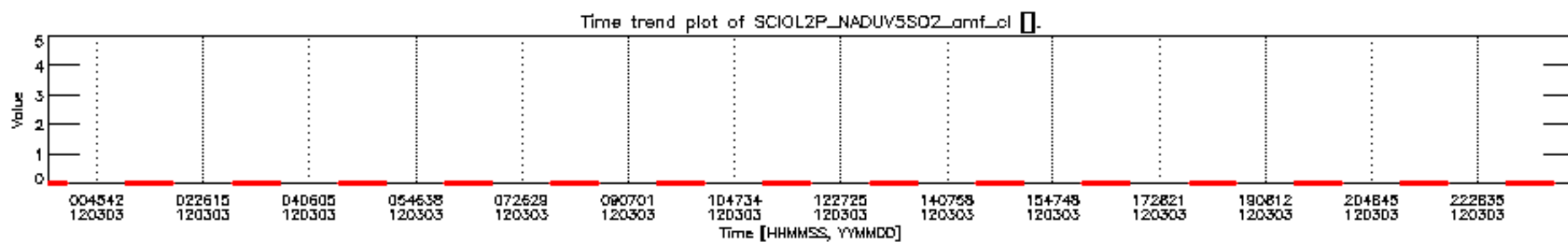
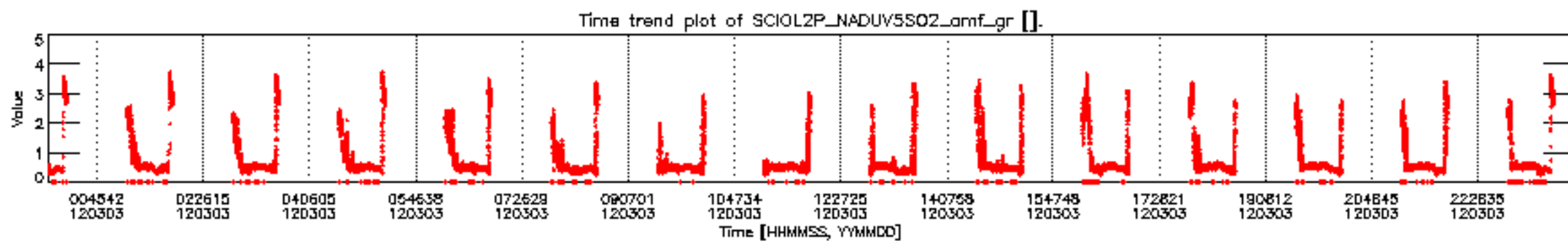
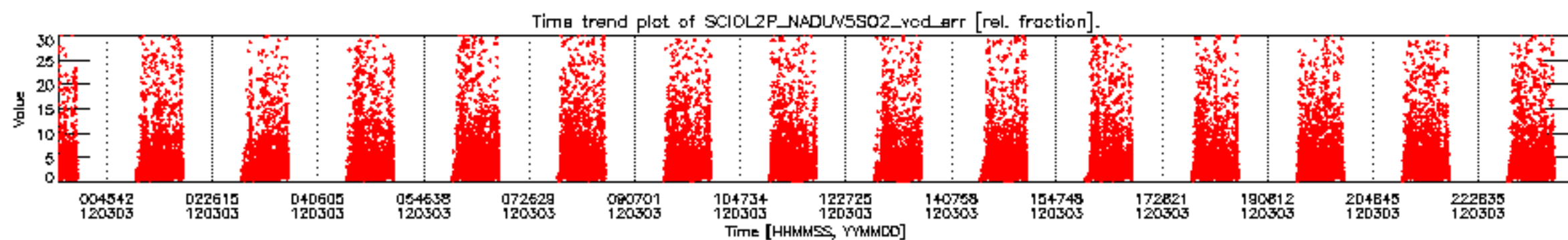
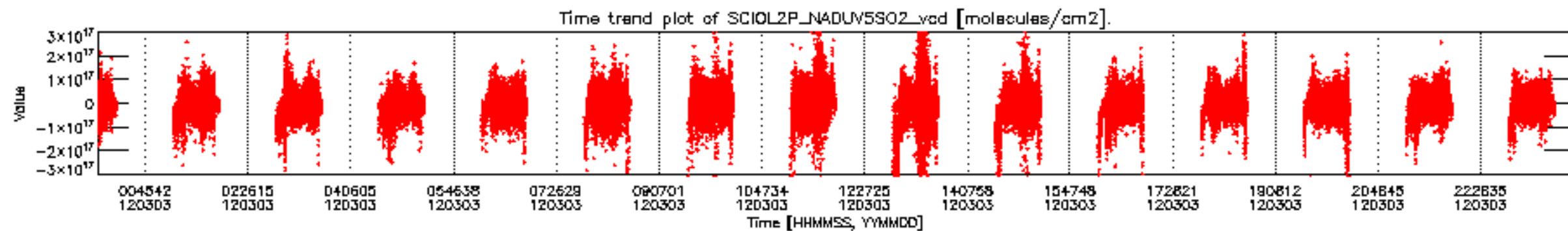


SCIOL2P_NADUV3BRO_amf_gr for 03MAR2012 00:00:00 to 04MAR2012 00:00:00

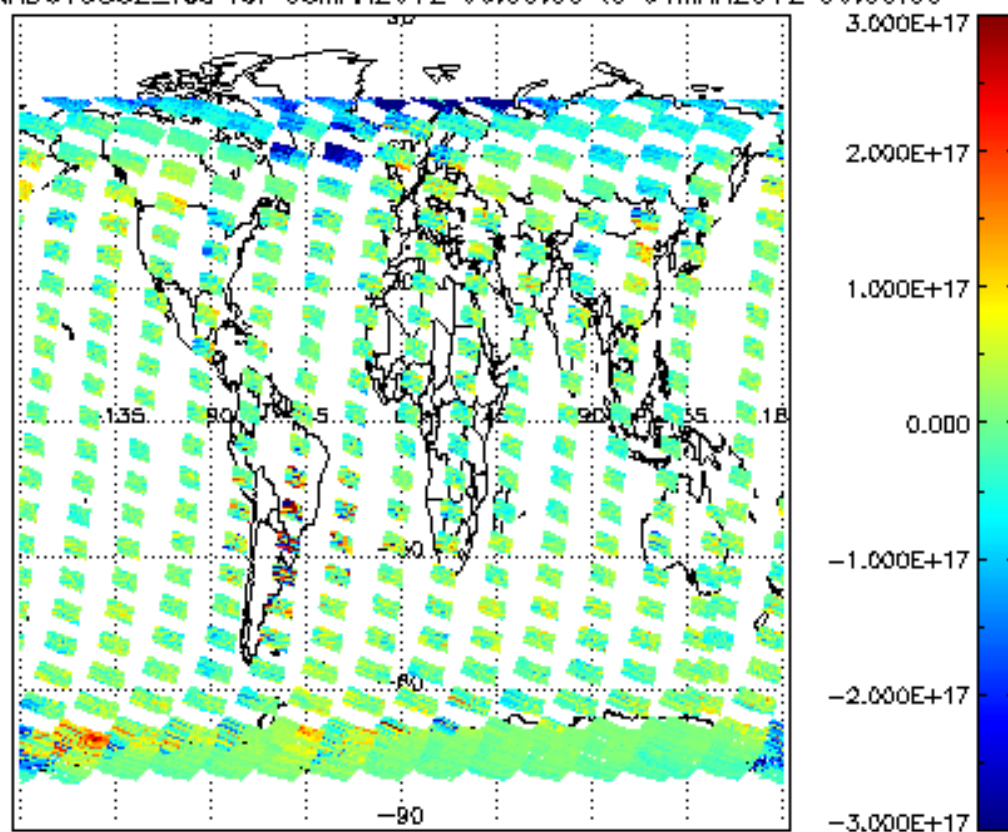


SCIOL2P_NADUV3BRO_amf_cl for 03MAR2012 00:00:00 to 04MAR2012 00:00:00

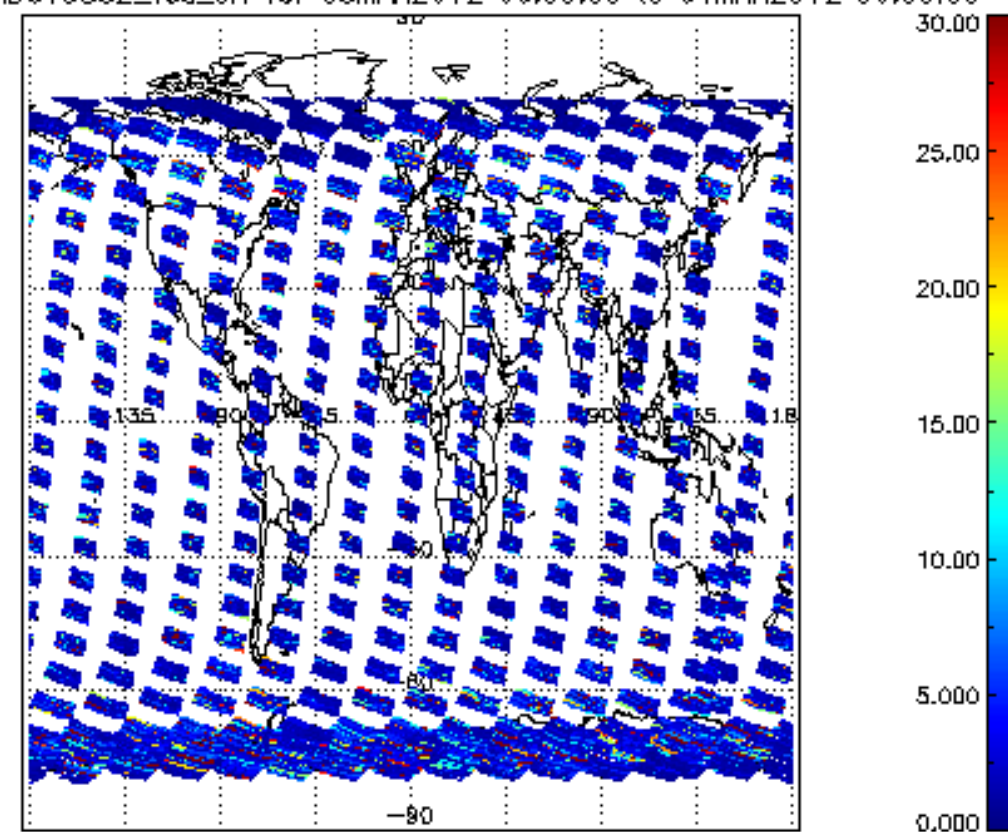




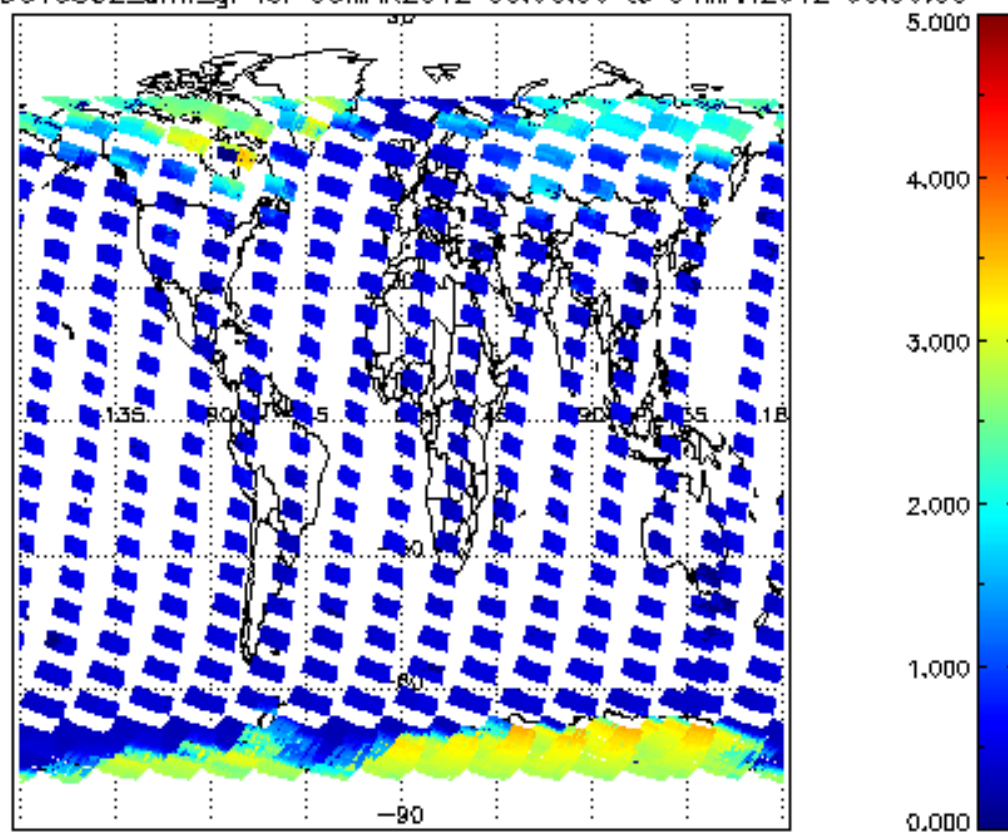
SCIOL2P_NADUV5S02_vcd for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



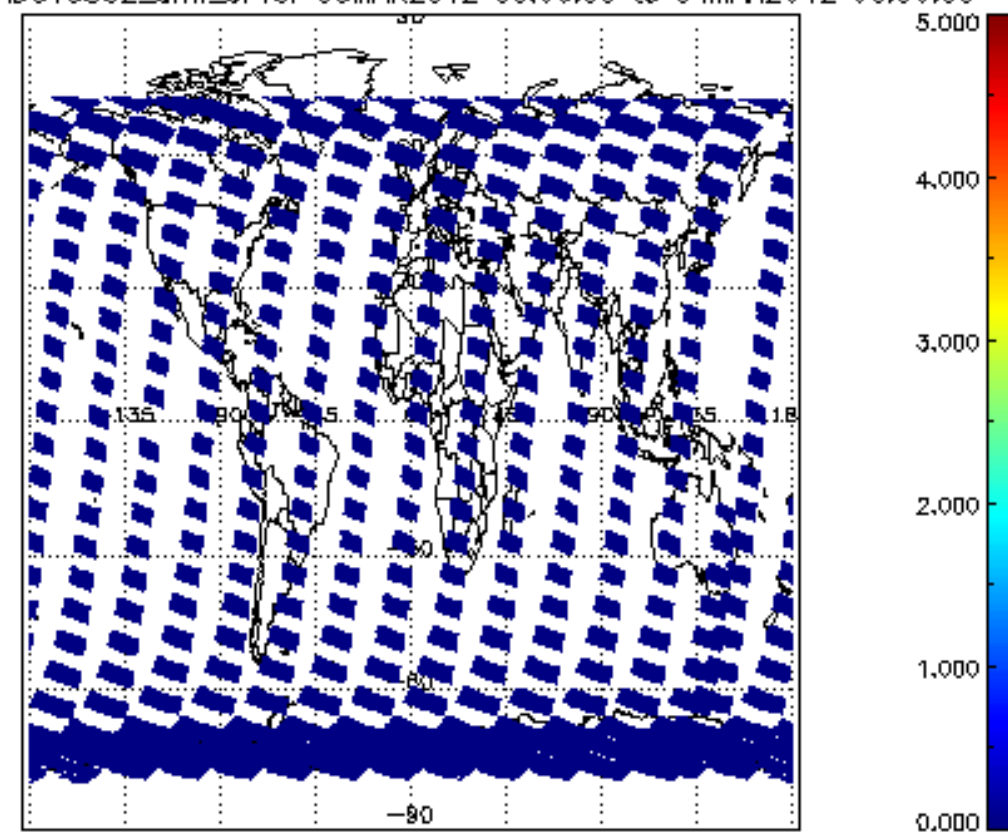
SCIOL2P_NADUV5S02_vcd_err for 03MAR2012 00:00:00 to 04MAR2012 00:00:00

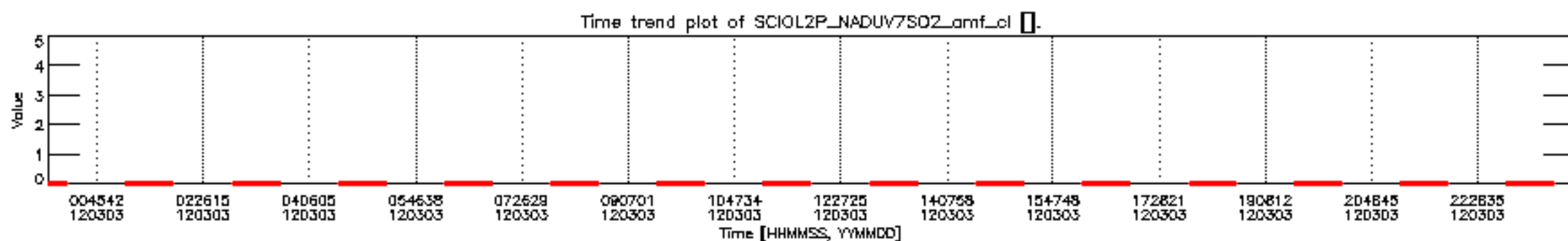
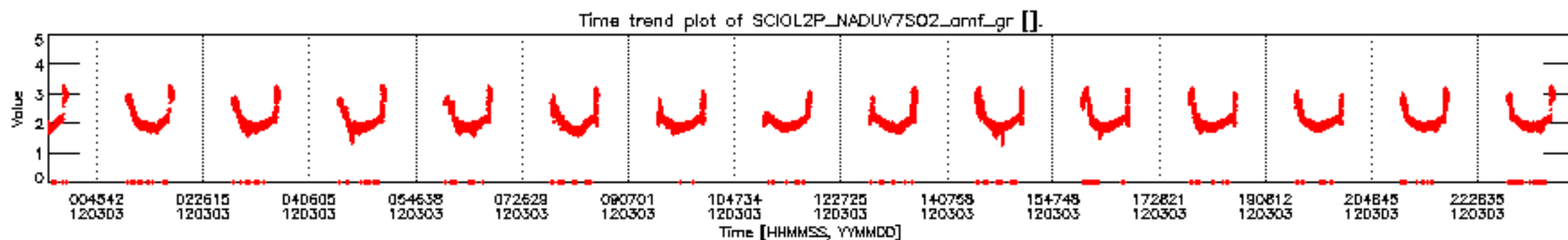
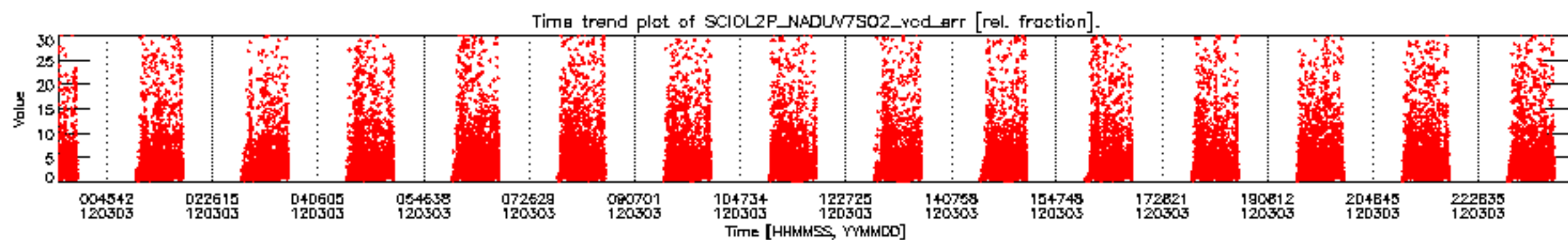
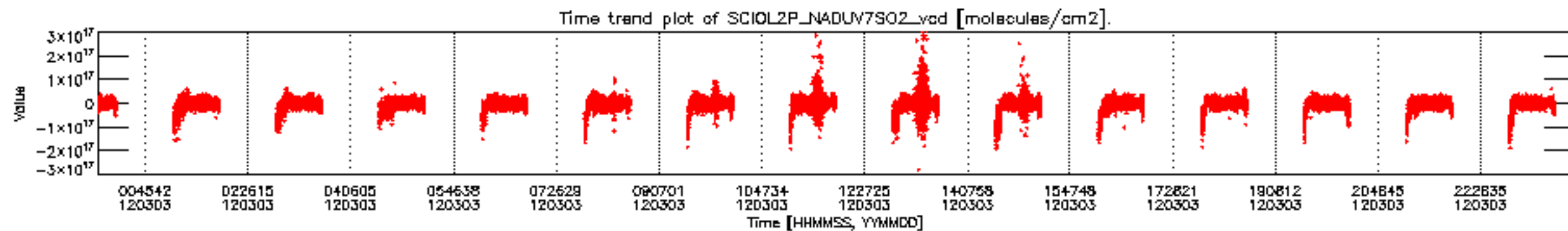


SCIOL2P_NADUV5S02_amf_gr for 03MAR2012 00:00:00 to 04MAR2012 00:00:00

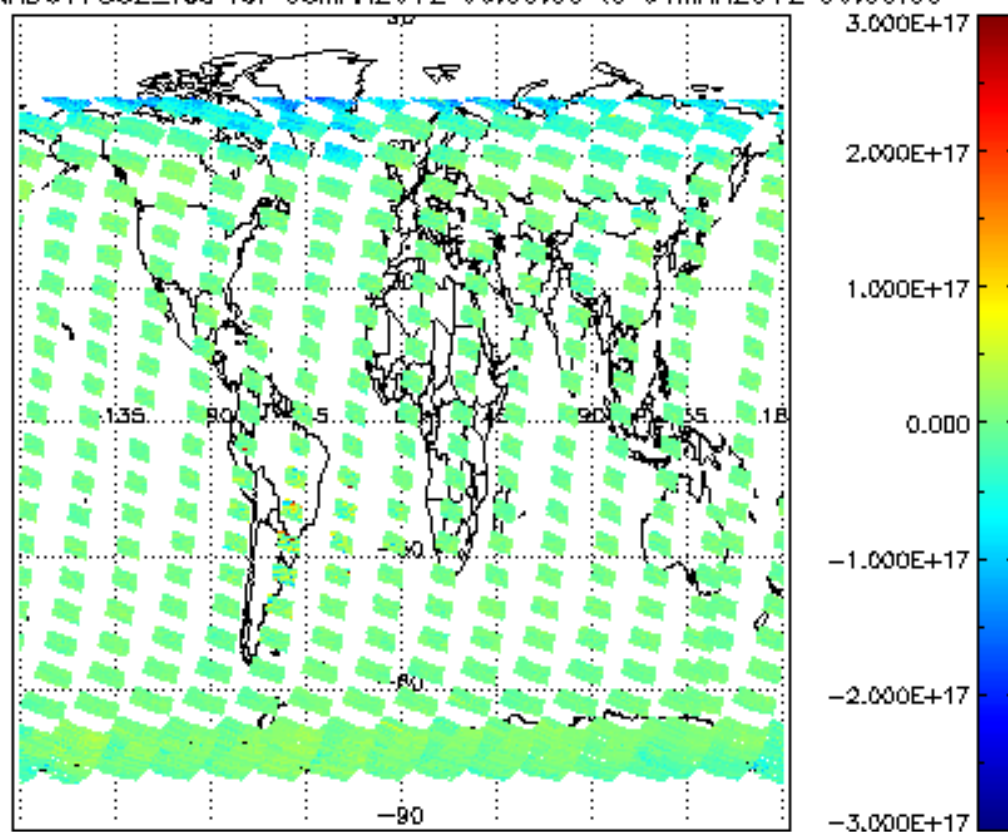


SCIOL2P_NADUV5S02_amf_cl for 03MAR2012 00:00:00 to 04MAR2012 00:00:00

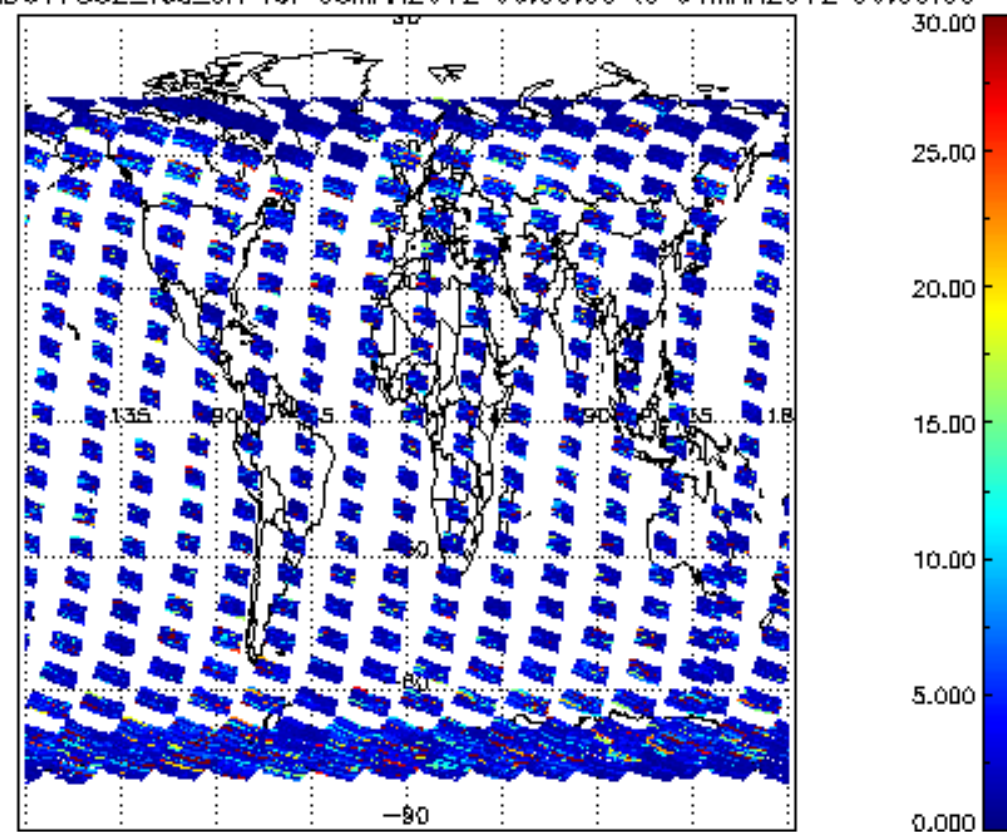




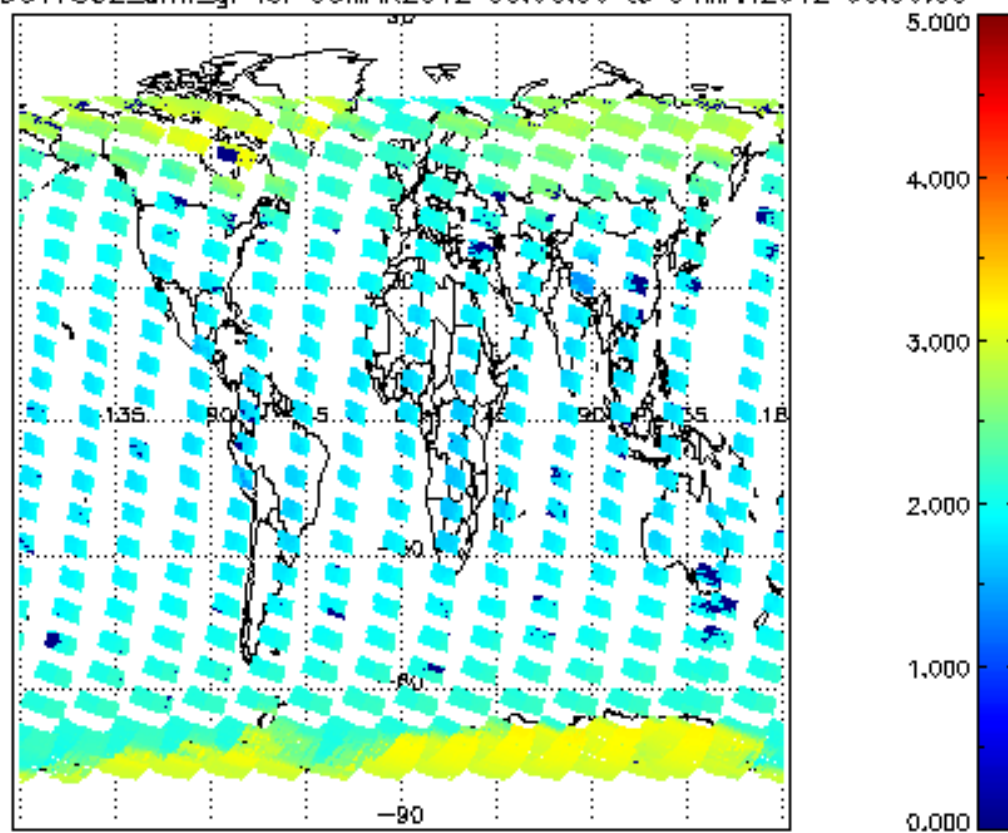
SCIOL2P_NADUV7S02_vcd for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



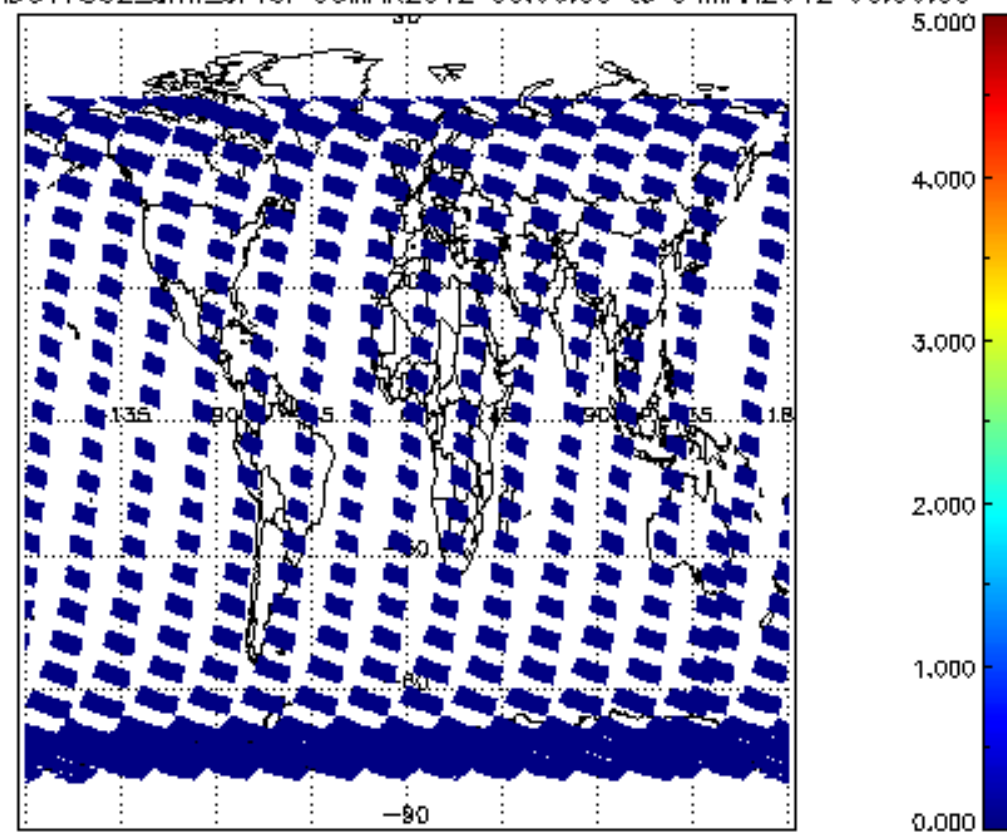
SCIOL2P_NADUV7S02_vcd_err for 03MAR2012 00:00:00 to 04MAR2012 00:00:00

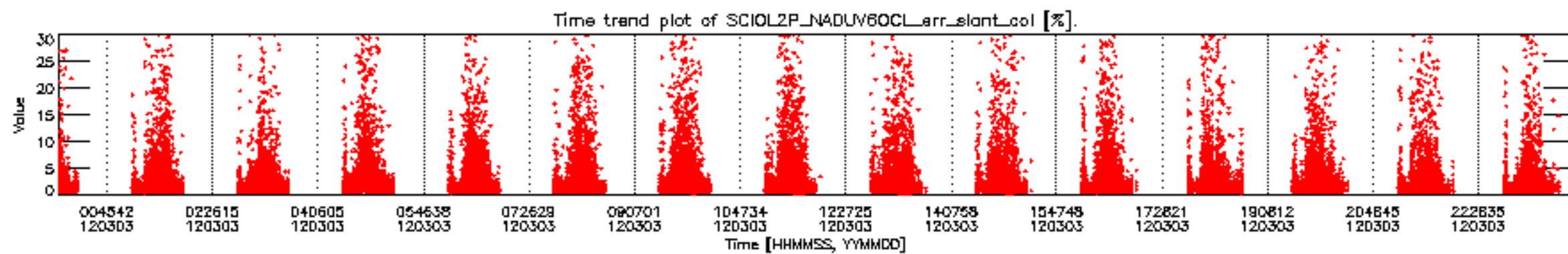
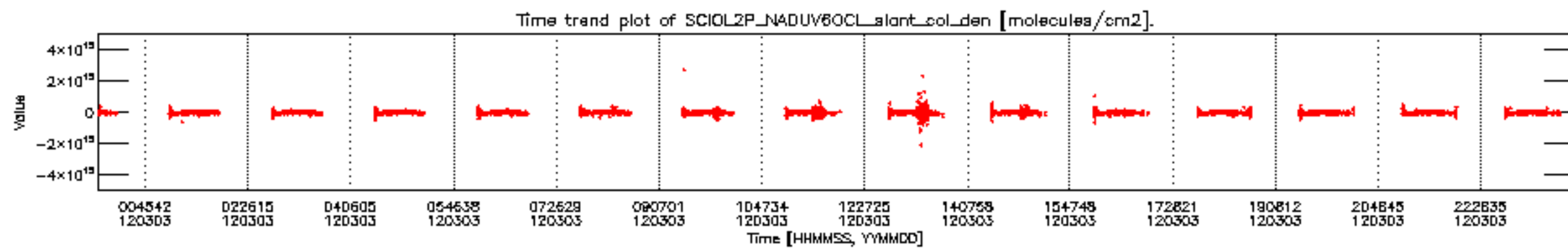


SCIOL2P_NADUV7S02_amf_gr for 03MAR2012 00:00:00 to 04MAR2012 00:00:00

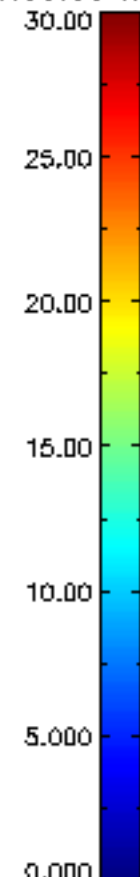
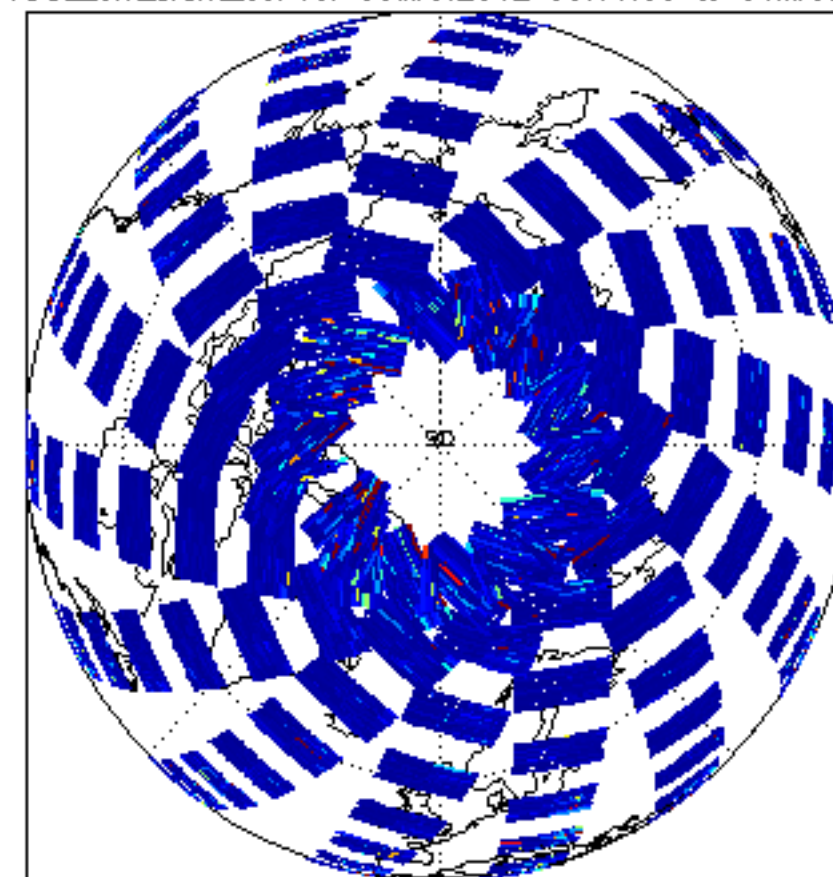
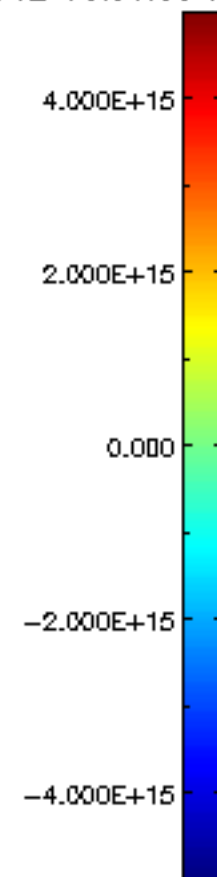
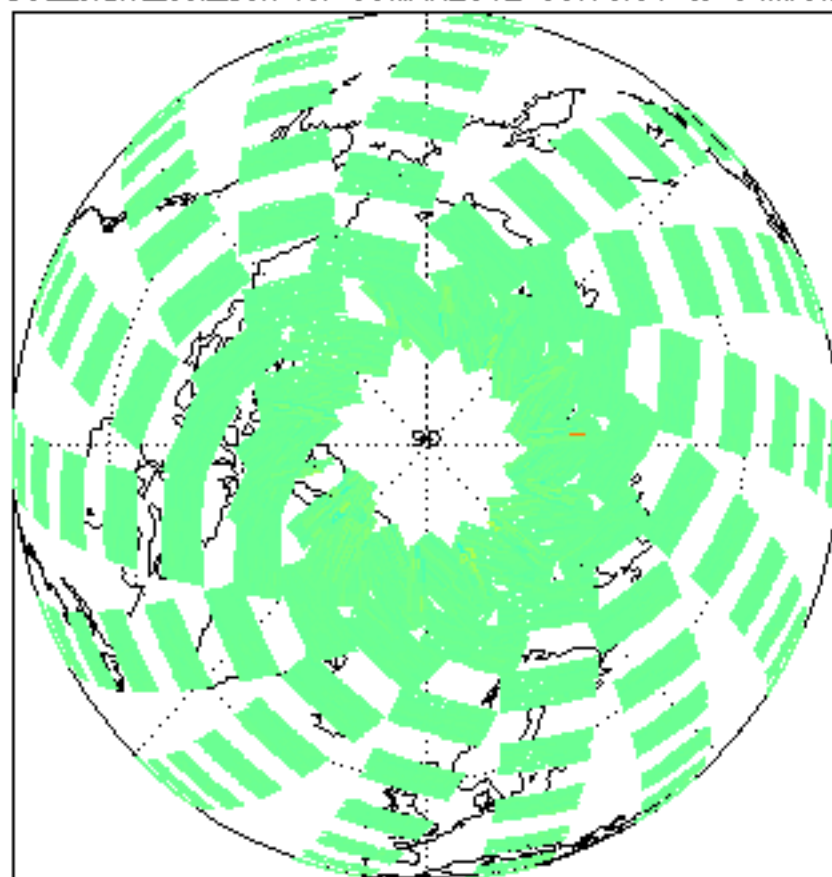


SCIOL2P_NADUV7S02_amf_cl for 03MAR2012 00:00:00 to 04MAR2012 00:00:00

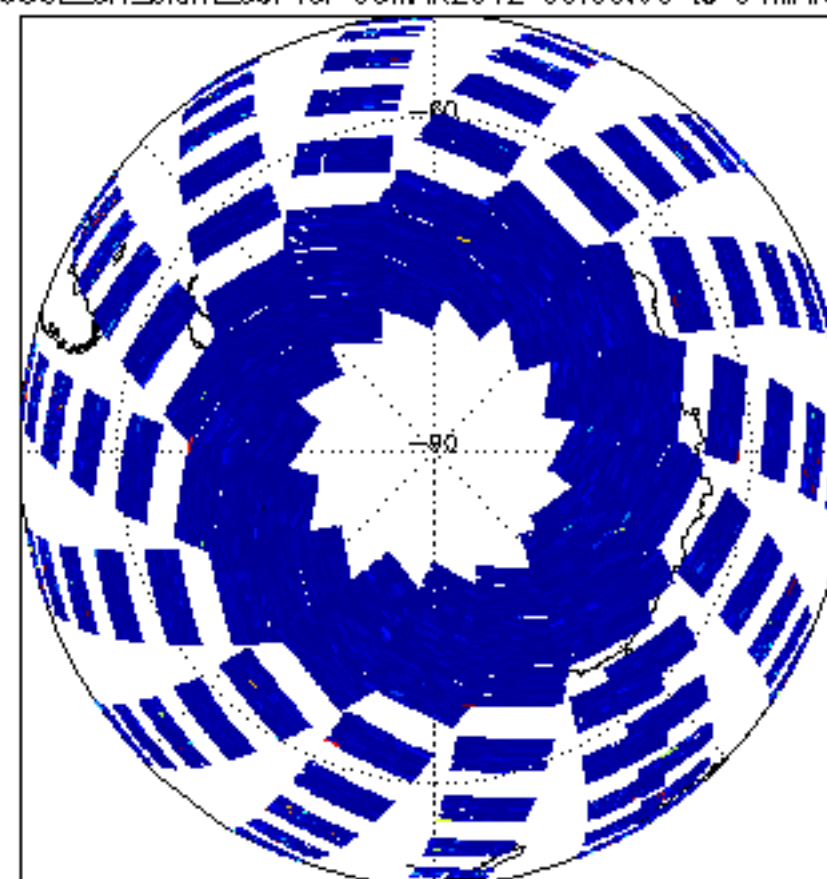
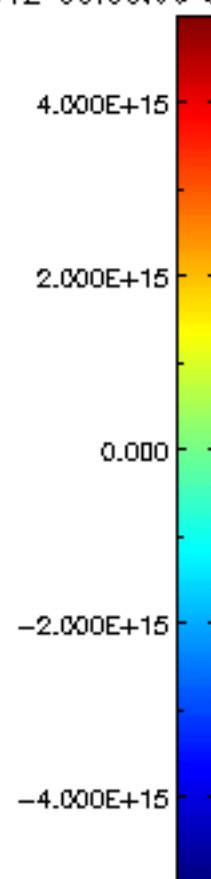
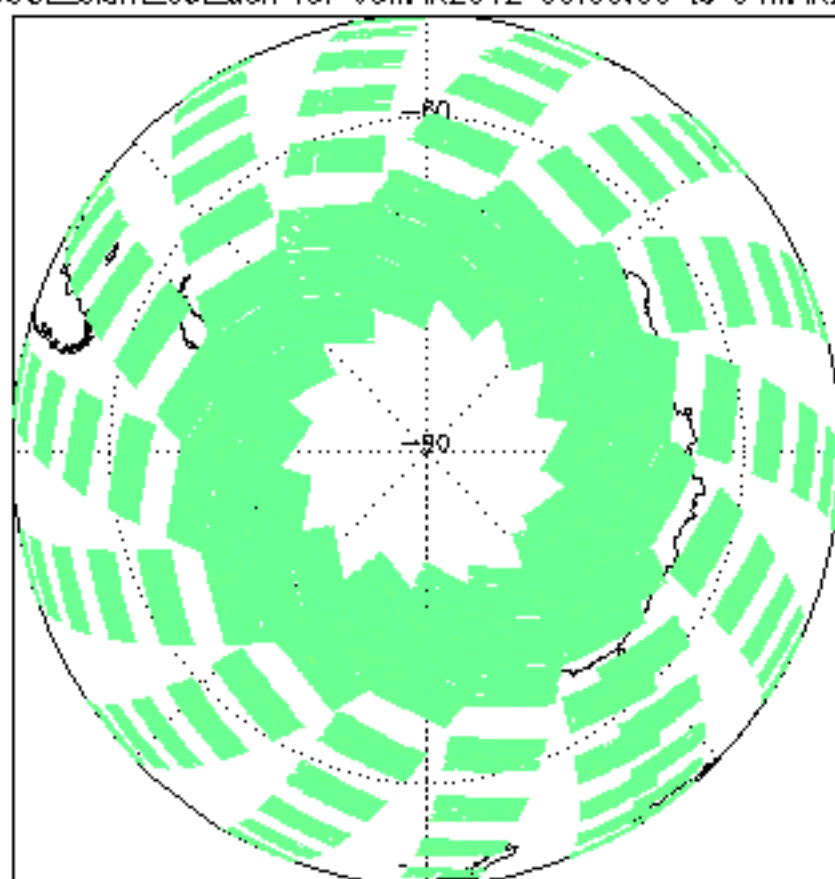


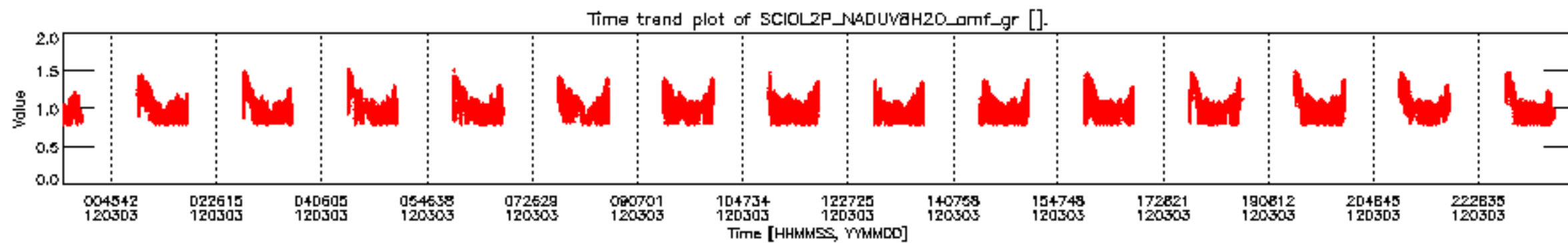
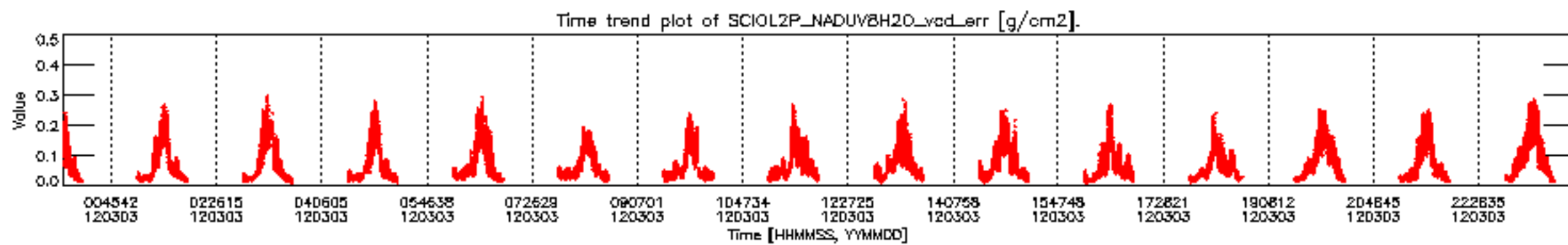
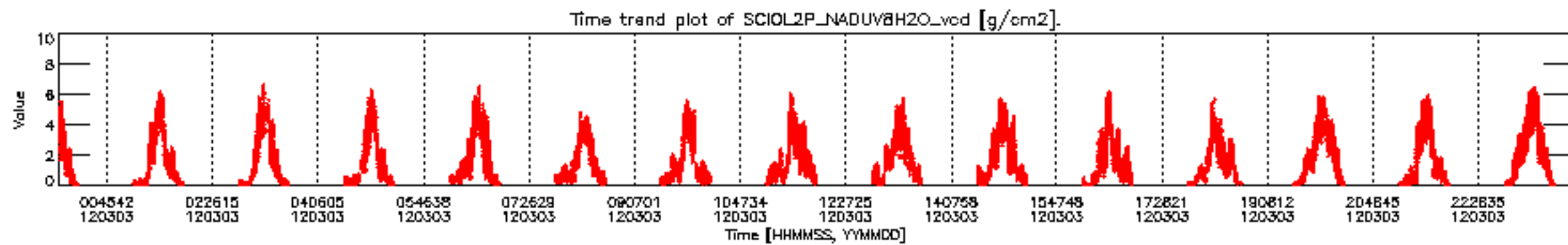


CIOL2P_NADUV6OCL_slant_col_den for 03MAR2012 00:00:00 to 04MAR2012 00:00:00 np; CIOL2P_NADUV6OCL_err_slant_col for 03MAR2012 00:00:00 to 04MAR2012 00:00:00 np

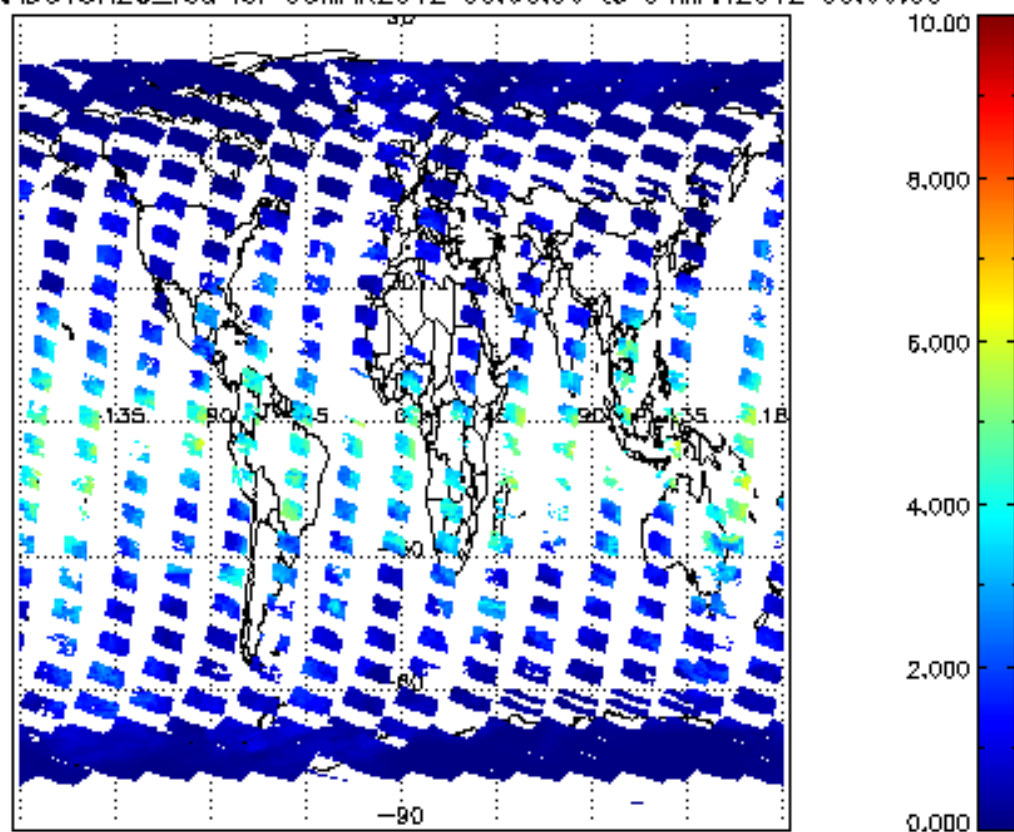


CIOL2P_NADUV6OCL_slant_col_den for 03MAR2012 00:00:00 to 04MAR2012 00:00:00 sp; CIOL2P_NADUV6OCL_err_slant_col for 03MAR2012 00:00:00 to 04MAR2012 00:00:00 sp

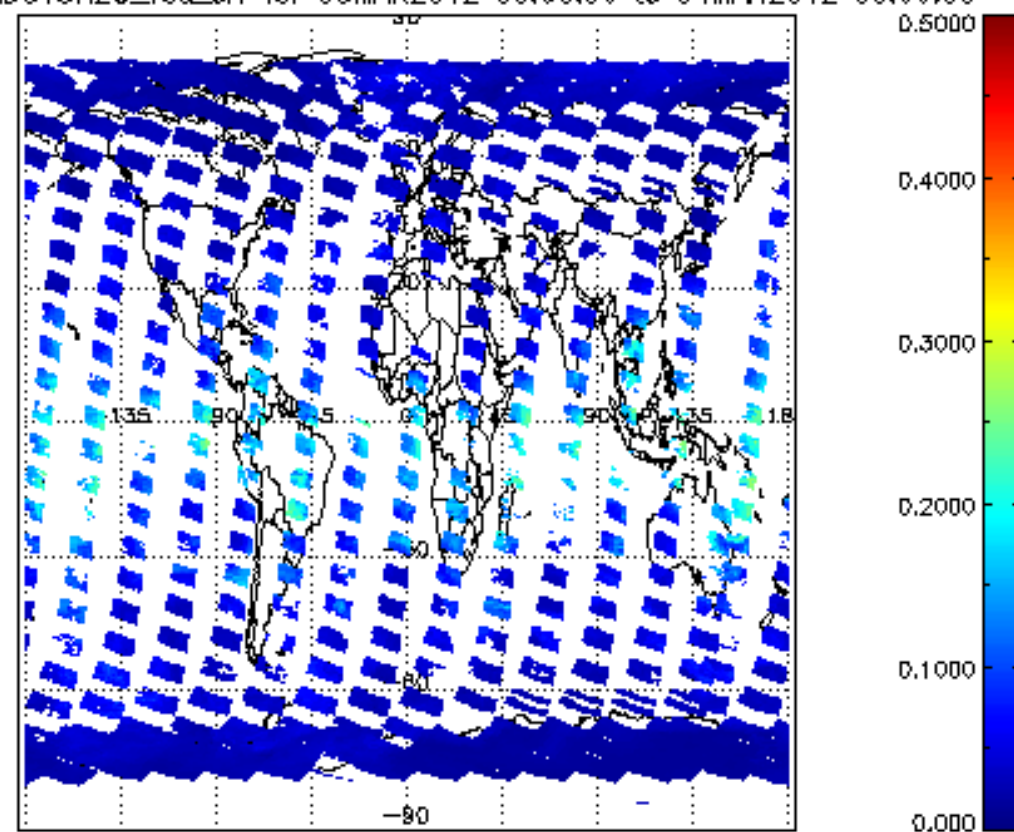




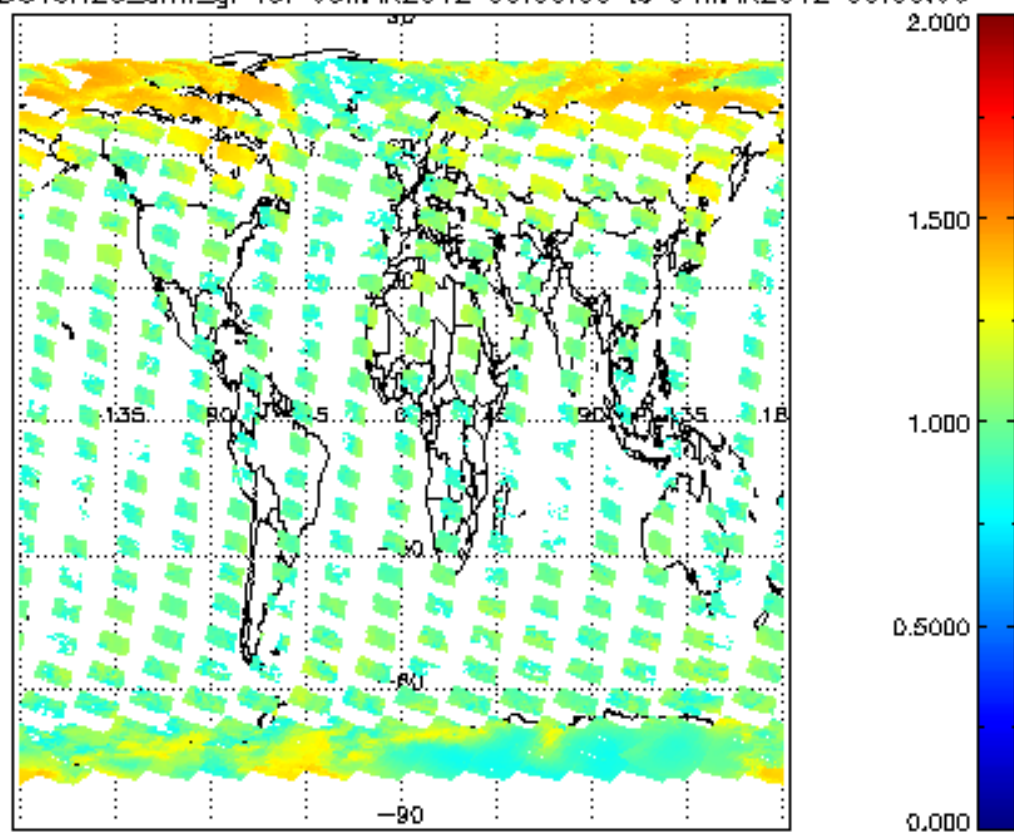
SCIOL2P_NADUV8H20_vcd for 03MAR2012 00:00:00 to 04MAR2012 00:00:00

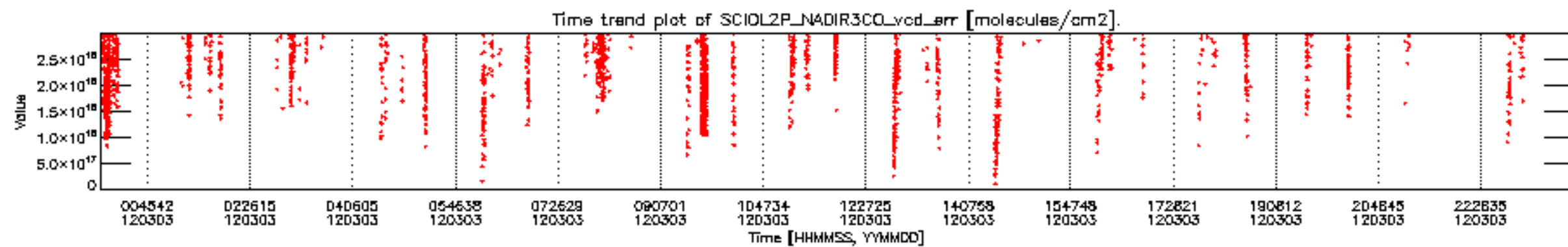
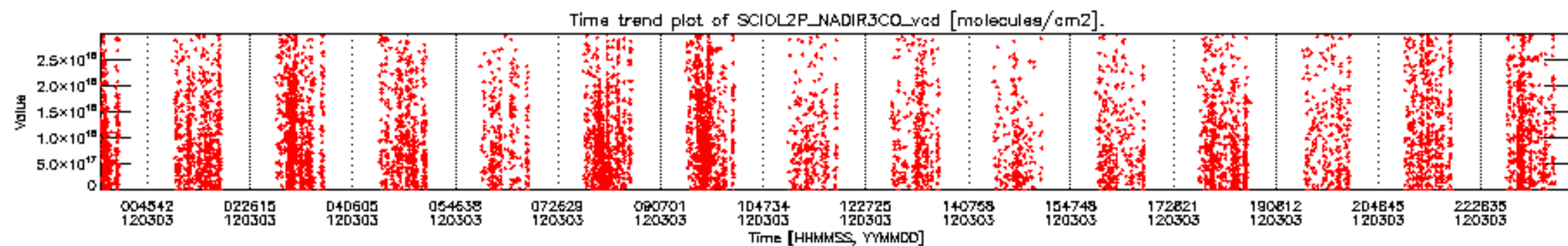


SCIOL2P_NADUV8H20_vcd_err for 03MAR2012 00:00:00 to 04MAR2012 00:00:00

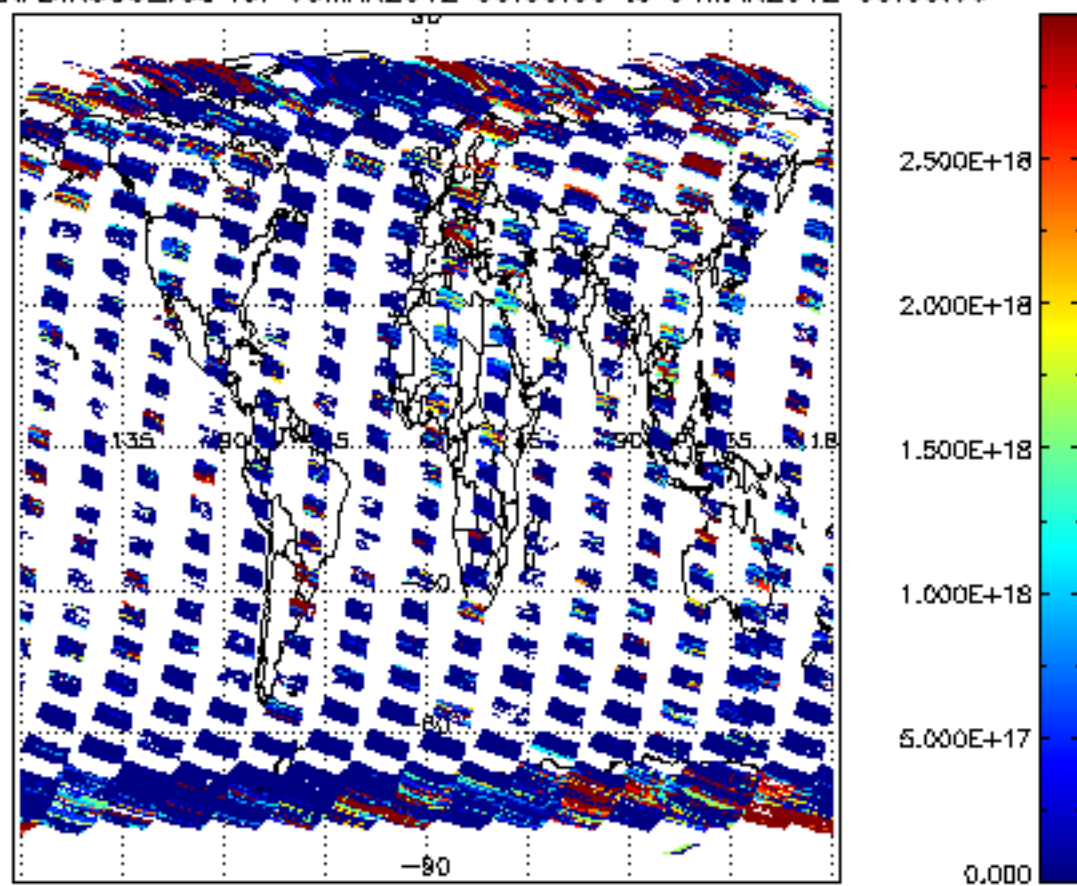


SCIOL2P_NADUV8H20_arnf_gr for 03MAR2012 00:00:00 to 04MAR2012 00:00:00

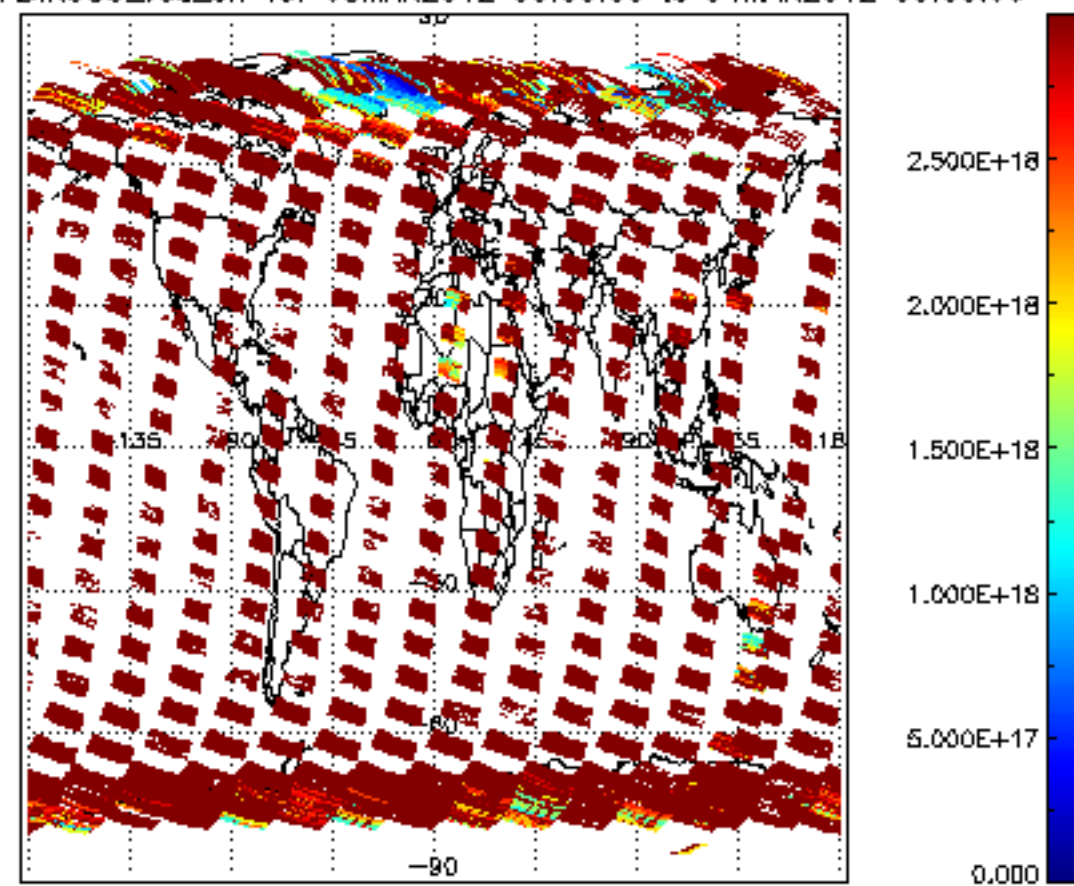




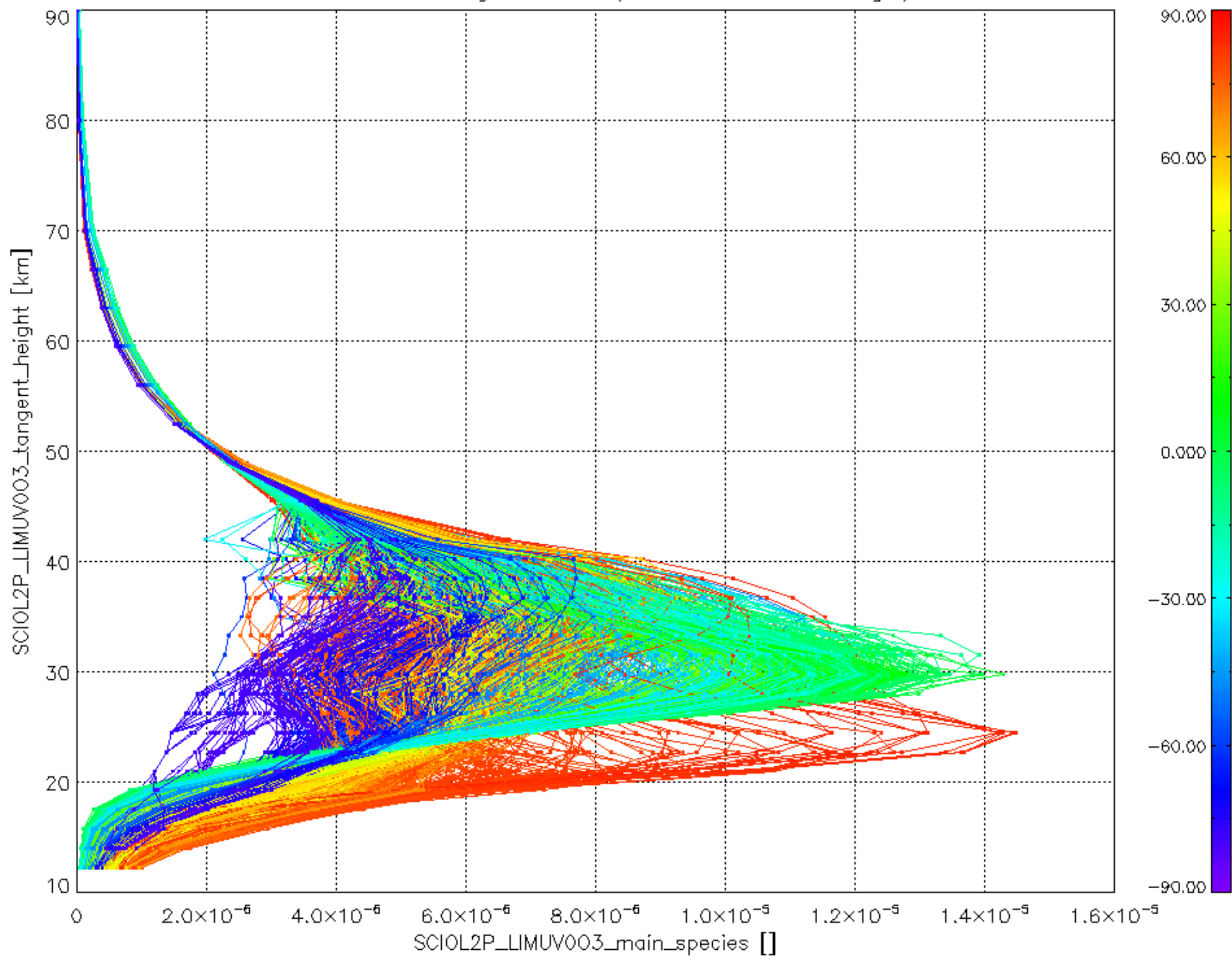
SCIOL2P_NADIR3CO_vcd for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



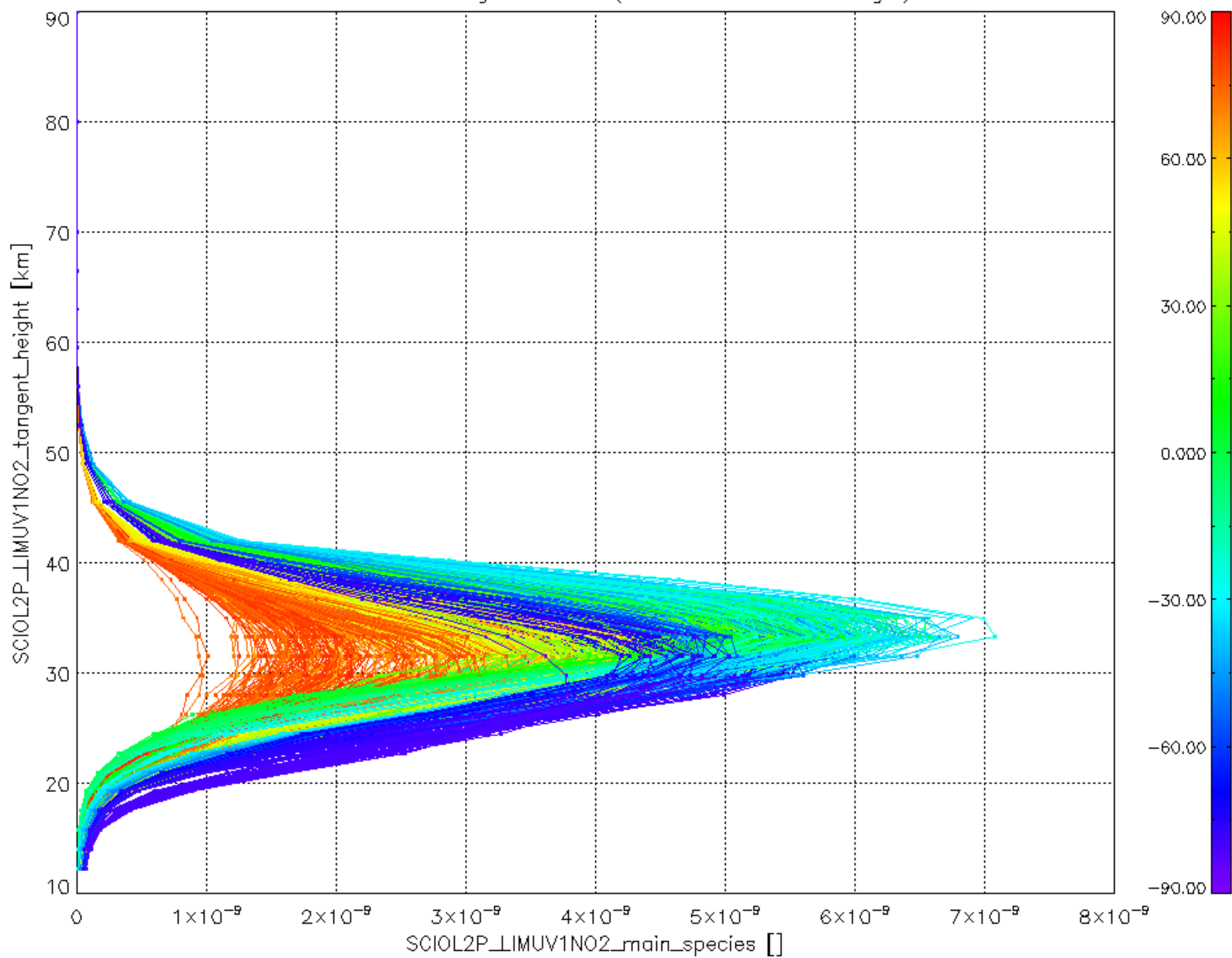
SCIOL2P_NADIR3CO_vcd_err for 03MAR2012 00:00:00 to 04MAR2012 00:00:00



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).

