

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	28MAR2012 03:32:37
Data source version	SCIA-OL/5.02-W
Processing scope for products	15MAR2012 00:00:00 to 16MAR2012 00:00:00
Start time of first product within scope	14MAR2012 22:42:00
Stop time of last product within scope	16MAR2012 00:43:35
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__2PWDPA20120314_224200_000035303112_00346_52515_3993.N1	14MAR2012 22:42:00	14MAR2012 23:40:51	0	GOOD
1	SCI_OL__2PWDPA20120315_002801_000031453112_00347_52516_3992.N1	15MAR2012 00:28:01	15MAR2012 01:20:27	0	GOOD
2	SCI_OL__2PWDPA20120315_020719_000032133112_00348_52517_3996.N1	15MAR2012 02:07:19	15MAR2012 03:00:53	0	GOOD
3	SCI_OL__2PWDPA20120315_034828_000031453112_00349_52518_3997.N1	15MAR2012 03:48:28	15MAR2012 04:40:54	0	GOOD
4	SCI_OL__2PWDPA20120315_052746_000032133112_00350_52519_3998.N1	15MAR2012 05:27:46	15MAR2012 06:21:20	0	GOOD

5	SCI_OL__2PWDP	A20120315_070855_000031453112_00351_52520_3999.N1	15MAR2012 07:08:55	15MAR2012 08:01:21	0	GOOD
6	SCI_OL__2PWDP	A20120315_084813_000032133112_00352_52521_4000.N1	15MAR2012 08:48:13	15MAR2012 09:41:47	0	GOOD
7	SCI_OL__2PWDP	A20120315_102922_000031453112_00353_52522_4001.N1	15MAR2012 10:29:22	15MAR2012 11:21:48	0	GOOD
8	SCI_OL__2PWDP	A20120315_120840_000032133112_00354_52523_4002.N1	15MAR2012 12:08:40	15MAR2012 13:02:14	0	GOOD
9	SCI_OL__2PWDP	A20120315_134949_000031453112_00355_52524_4003.N1	15MAR2012 13:49:49	15MAR2012 14:42:14	0	GOOD
10	SCI_OL__2PWDP	A20120315_152907_000032133112_00356_52525_4004.N1	15MAR2012 15:29:07	15MAR2012 16:22:41	0	GOOD
11	SCI_OL__2PWDP	A20120315_171016_000031453112_00357_52526_4005.N1	15MAR2012 17:10:16	15MAR2012 18:02:41	0	GOOD
12	SCI_OL__2PWDP	A20120315_184951_000032133112_00358_52527_4006.N1	15MAR2012 18:49:51	15MAR2012 19:43:25	0	GOOD
13	SCI_OL__2PWDP	A20120315_203100_000031453112_00359_52528_4007.N1	15MAR2012 20:31:00	15MAR2012 21:23:26	0	GOOD
14	SCI_OL__2PWDP	A20120315_221001_000032133112_00360_52529_4009.N1	15MAR2012 22:10:01	15MAR2012 23:03:35	0	GOOD
15	SCI_OL__2PWDP	A20120315_235110_000031453112_00361_52530_4010.N1	15MAR2012 23:51:10	16MAR2012 00:43:35	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: 153133

Total number of cloud data DSRs with good quality flag (=0): 153133 (100.0 %)

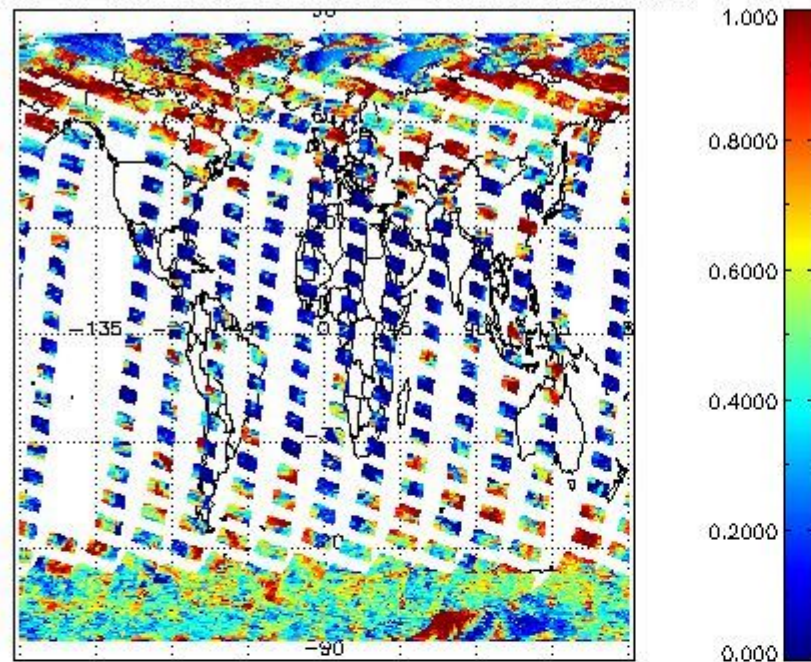
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	153133	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	153133	0.16490	0.12500	0.12500	0.25000	0.058271	s
CL_FRAC	153133	0.46623	0.44528	0.0000	1.0000	0.32526	
CL_FRAC_ERR	153133	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	153133	5.2768	4.0000	4.0000	8.0000	1.8647	
PMD_READ_CL[0]	153133	0.64846	0.0000	0.0000	8.0000	1.5316	-
PMD_READ_CL[1]	153133	1.1147	0.0000	0.0000	8.0000	2.4236	-
CL_TOP_HEIGHT	121861	3.3710	1.8186	0.0000	17.000	3.6673	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	121861	61.749	77.235	0.0000	101.00	41.143	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	153133	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	153133	11001011	11000100	11000000	11100000	3437.1	
AERO_ABSO_IND	153133	0.086327	0.0000	0.0000	7.9849	0.30898	
AERO_IND_DIAG	153133	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	153133	01010011	00000000	00000000	11000000	24374.	

Time and geolocation plots:

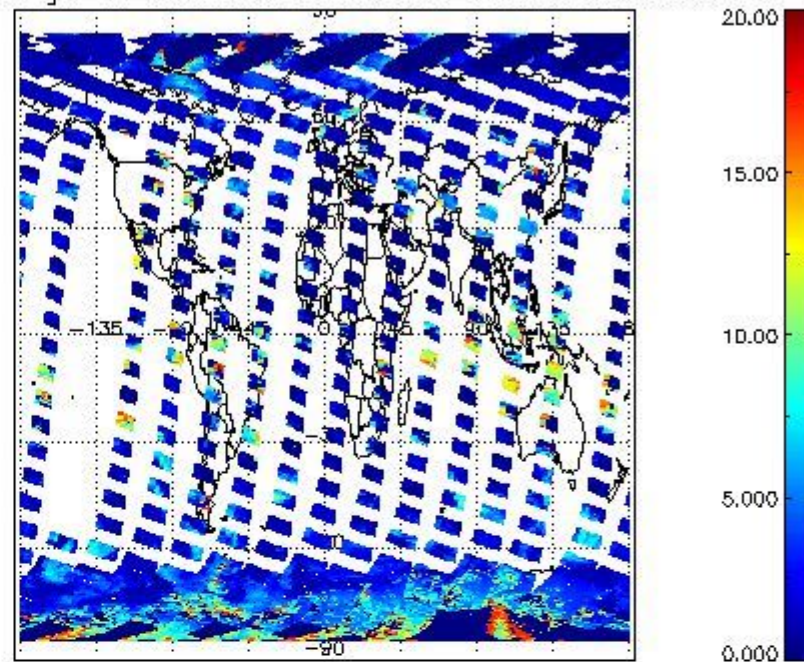
Plots are available for the following parameters:

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

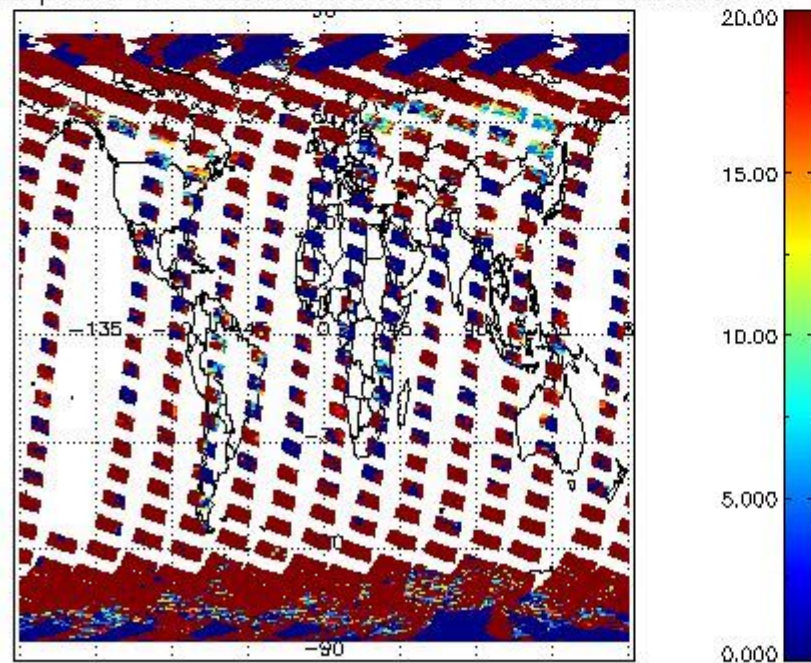
cL_frac for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



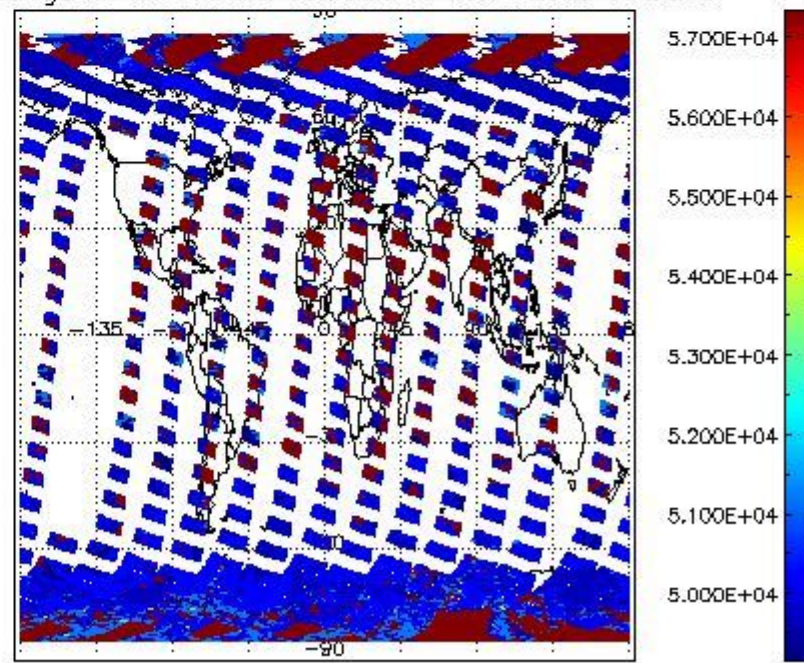
cL_top_height for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



cL_opt_depth for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



cloud_flags for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



2.2.2 Nadir

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

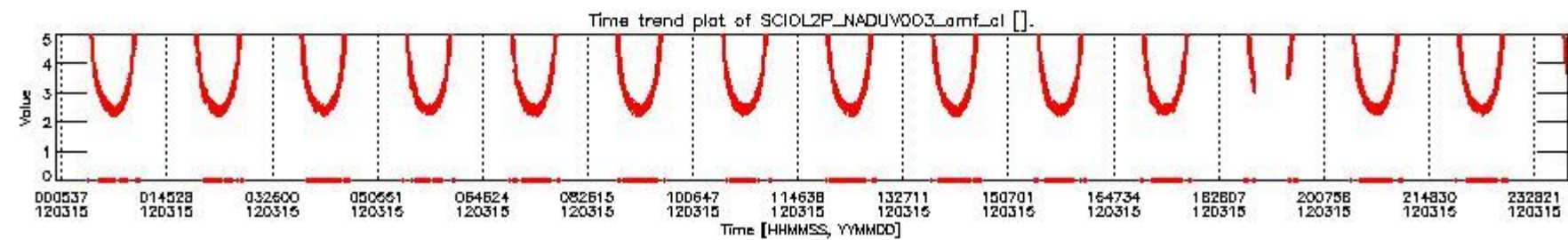
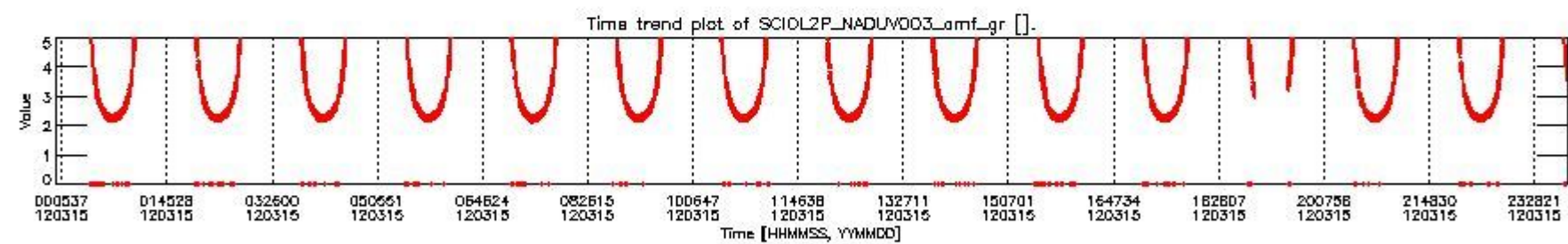
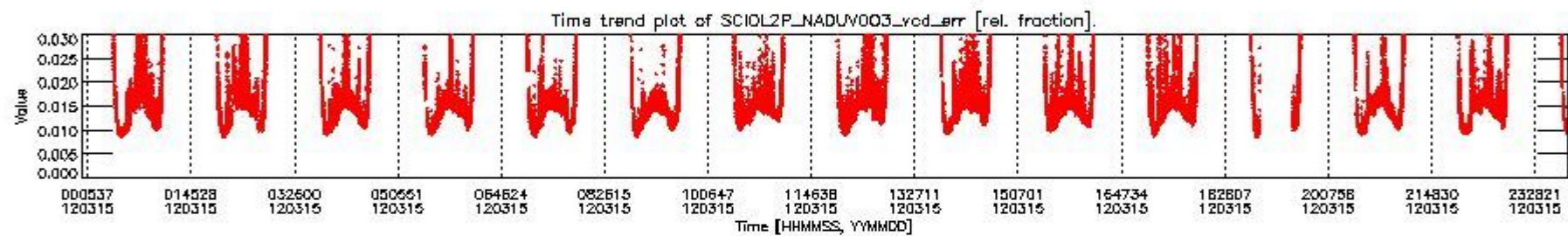
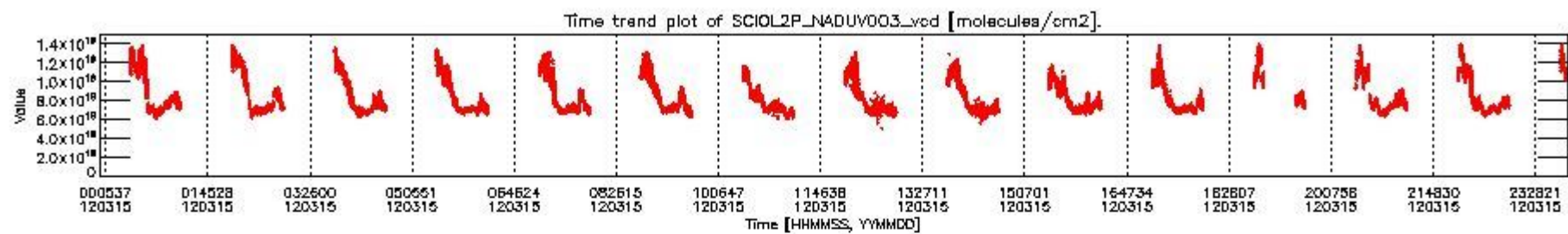
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

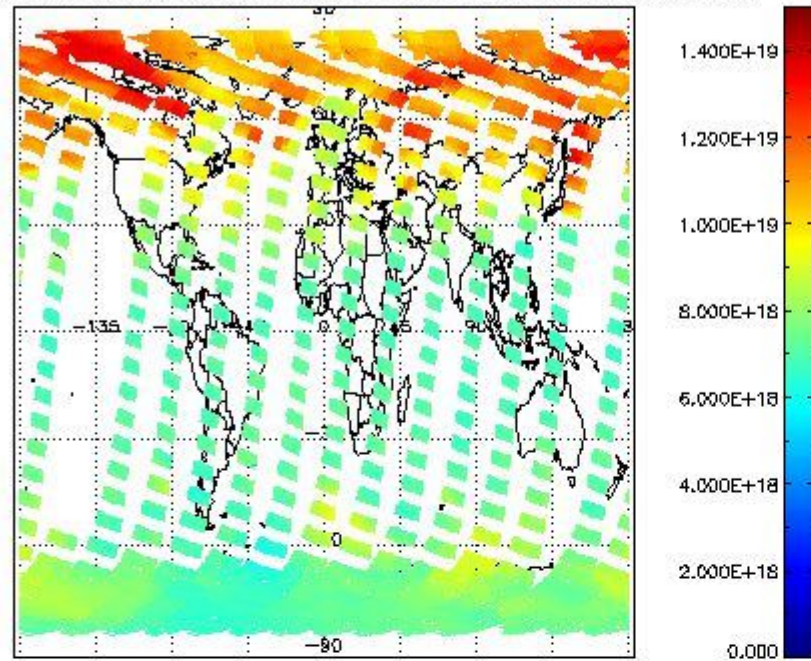
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

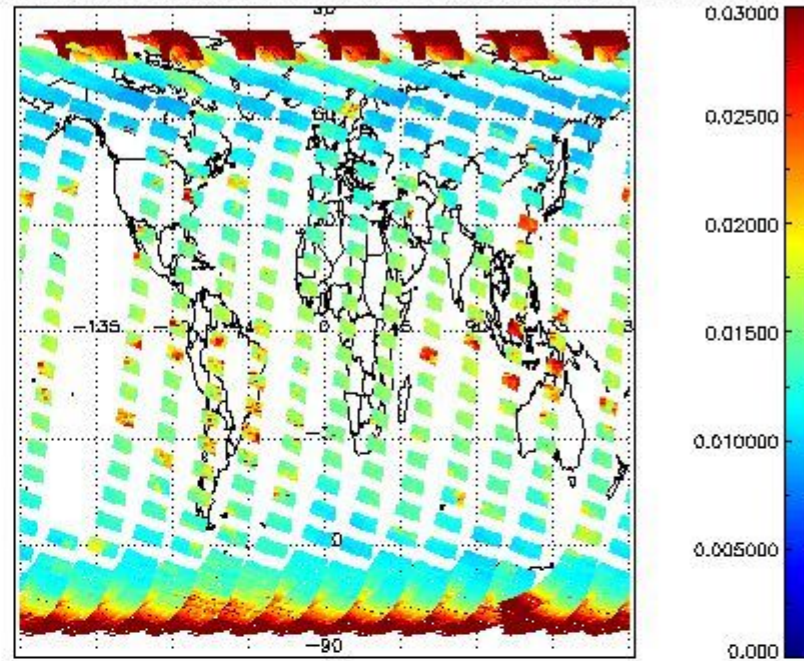
2.2.2.1 O3 (UV0)



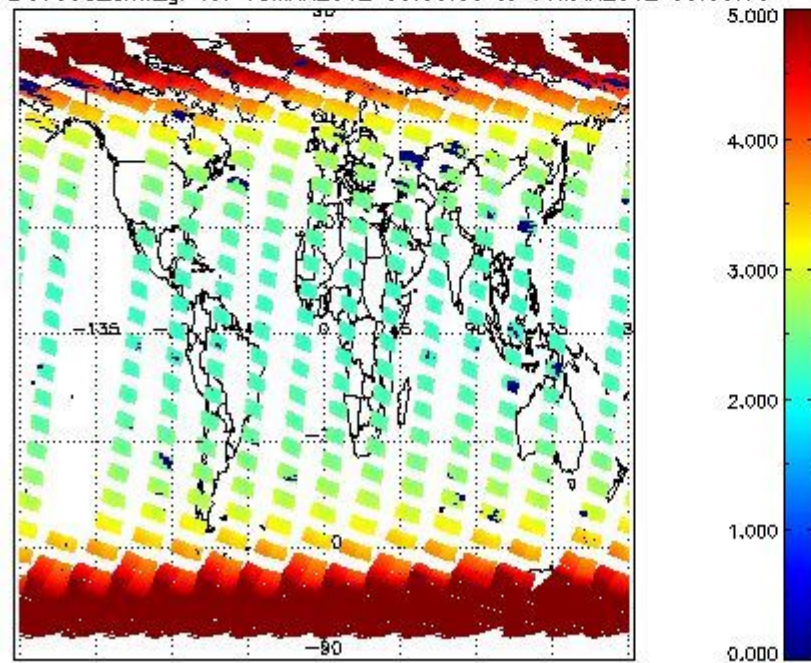
SCIOL2P_NADUV003_vcd for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



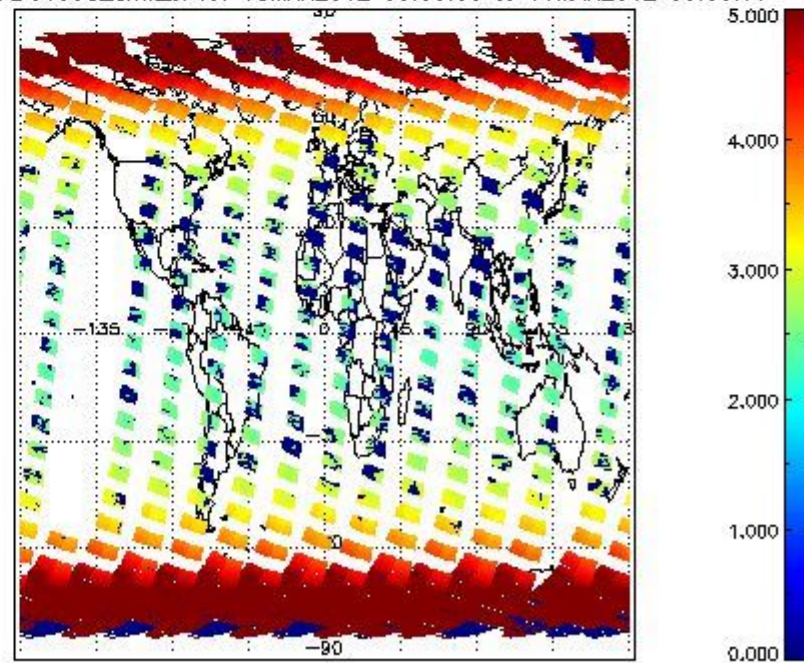
SCIOL2P_NADUV003_vcd_err for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



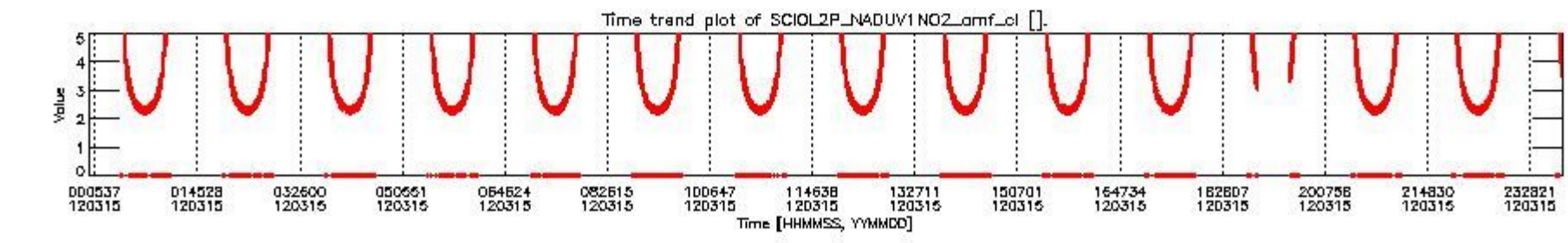
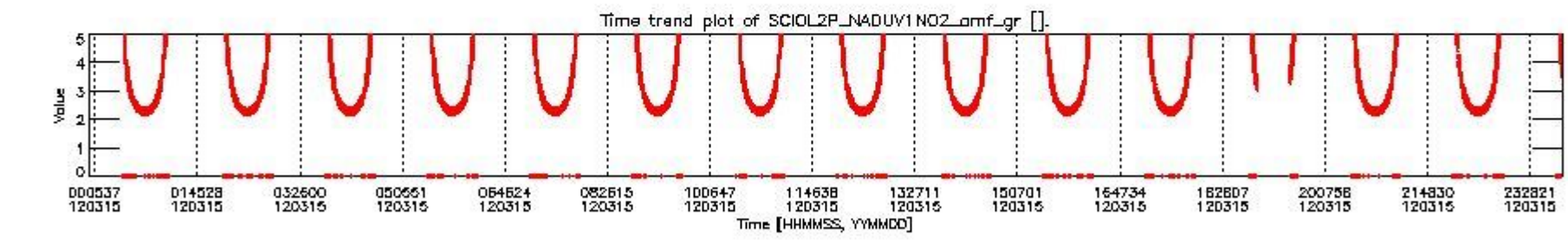
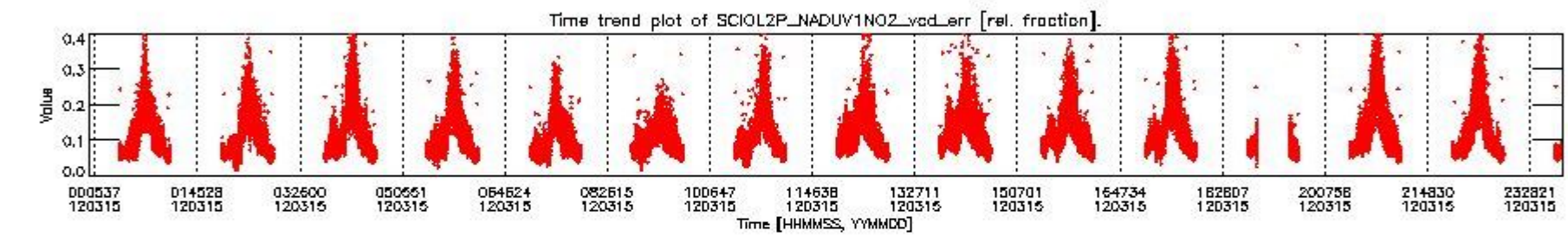
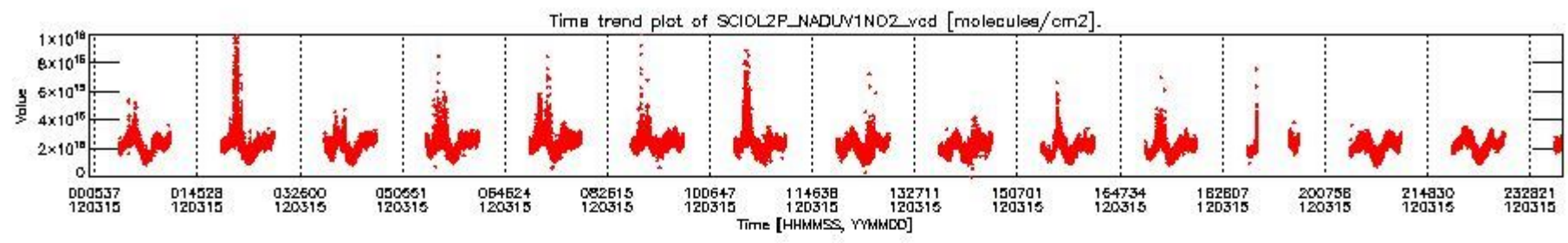
SCIOL2P_NADUV003_amf_gr for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



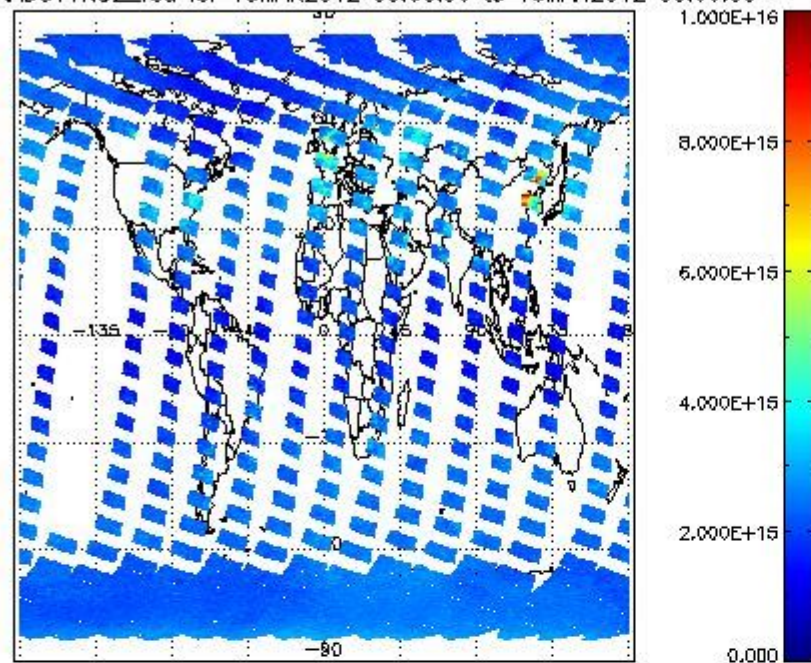
SCIOL2P_NADUV003_amf_cl for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



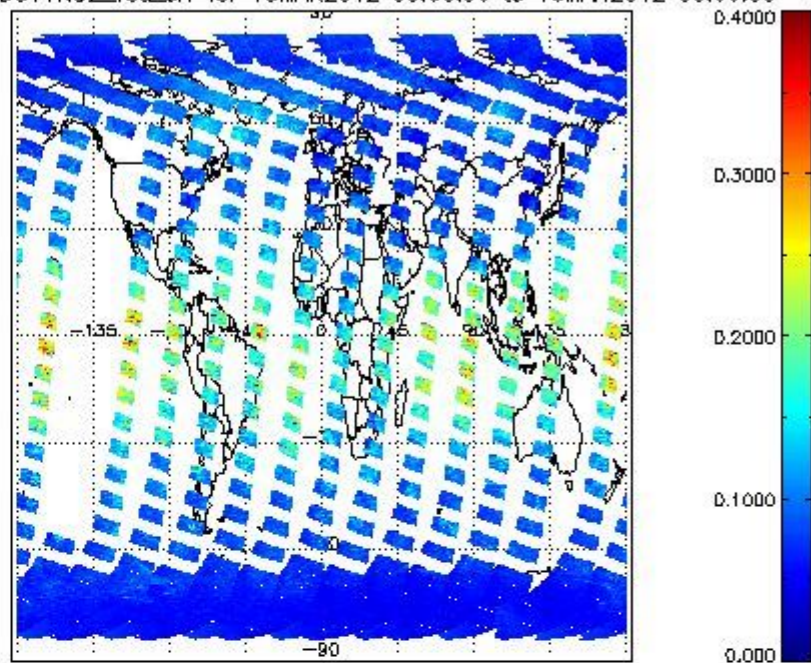
2.2.2.2 NO2 (UV1)



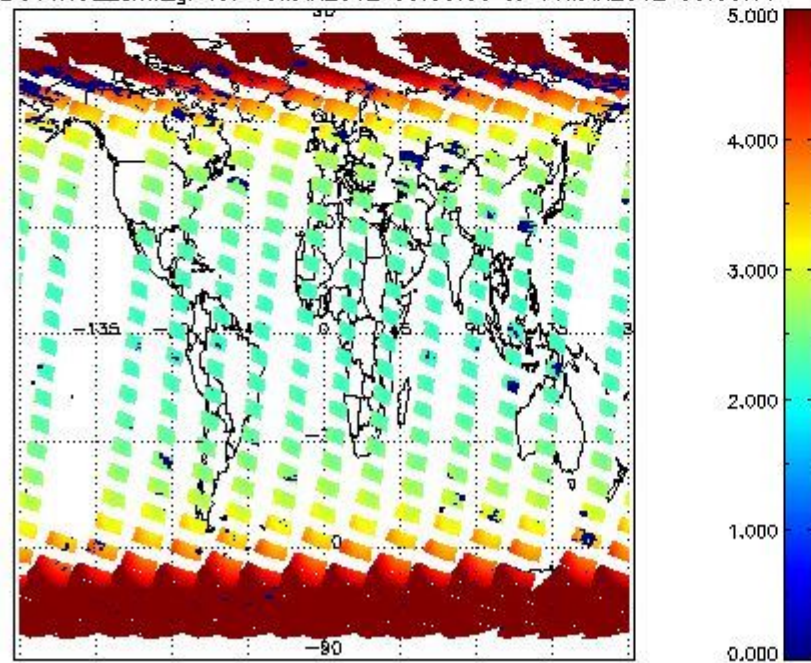
SCIOL2P_NADUV1NO2_vcd for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



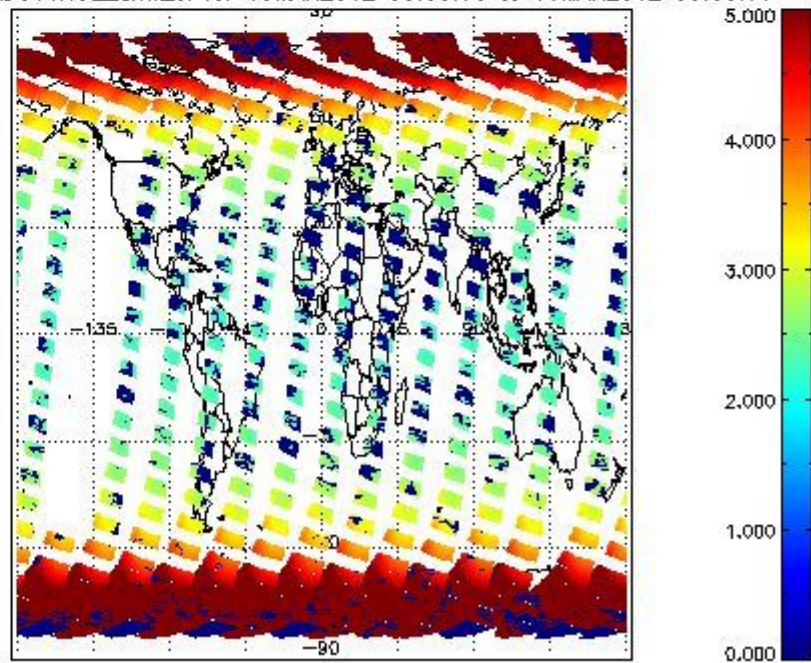
SCIOL2P_NADUV1NO2_vcd_err for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



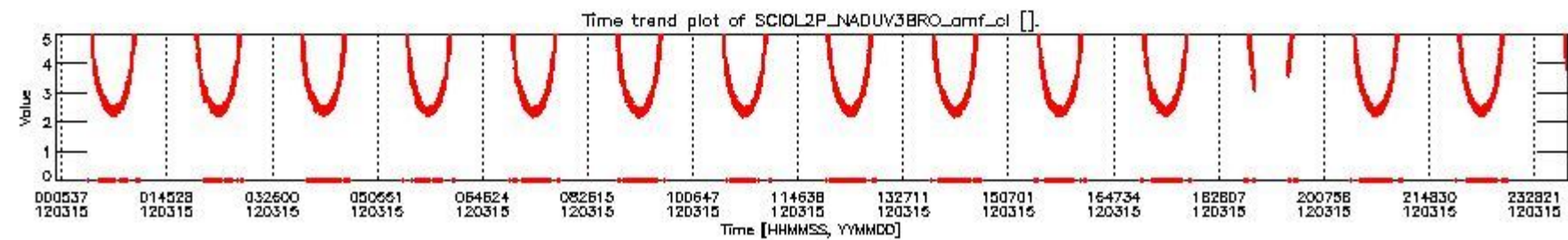
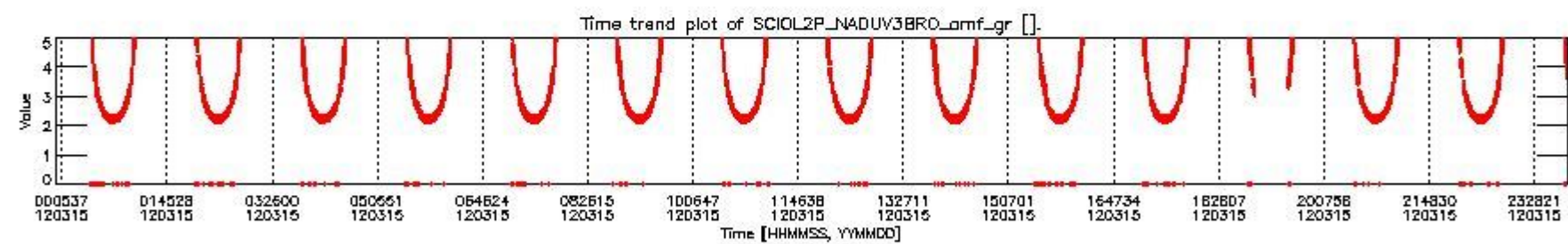
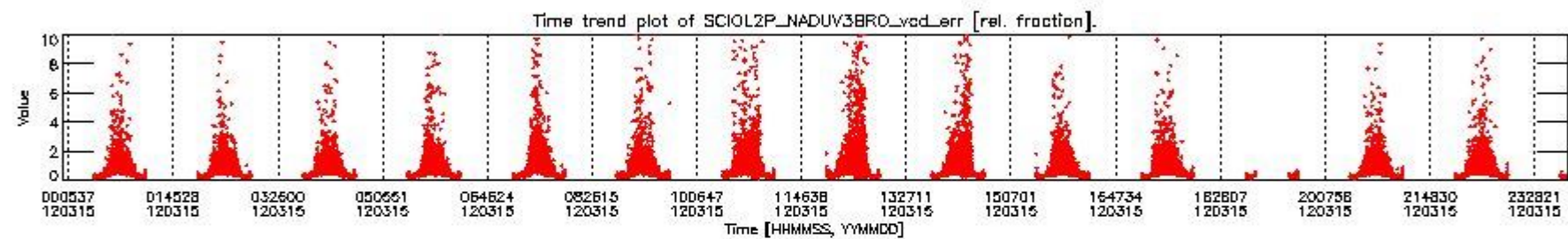
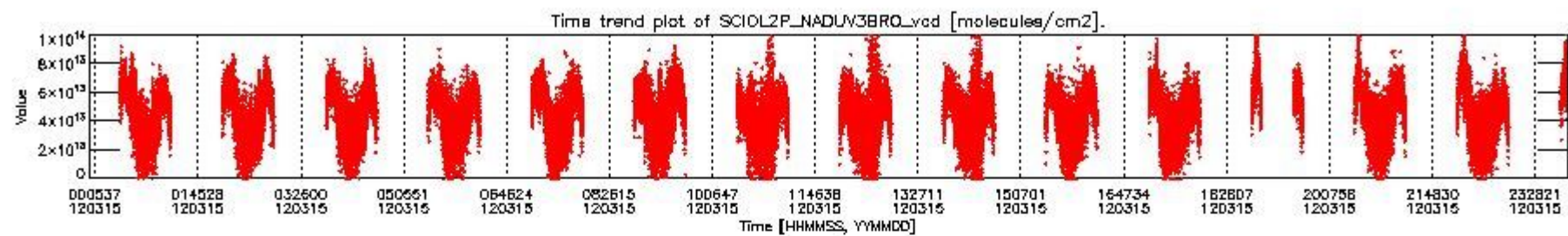
SCIOL2P_NADUV1NO2_amf_gr for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



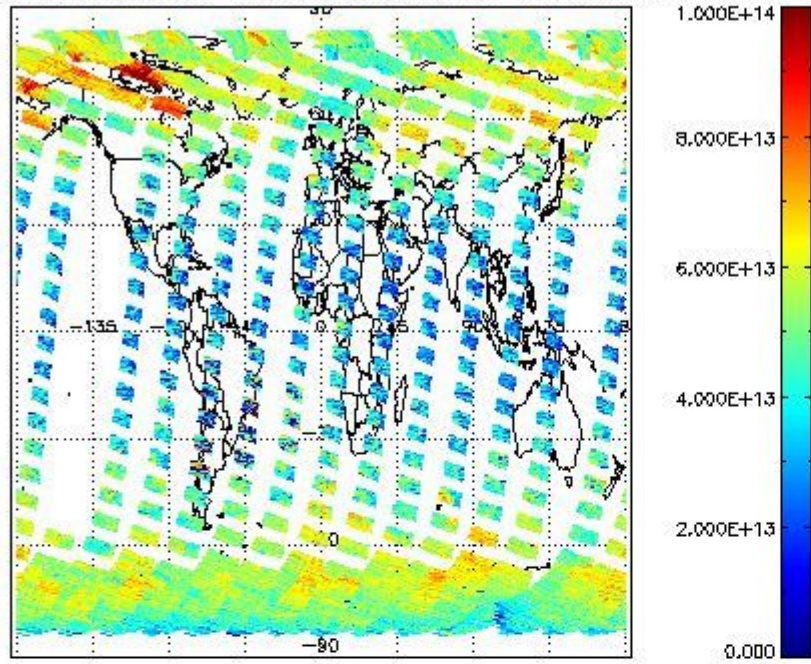
SCIOL2P_NADUV1NO2_amf_cl for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



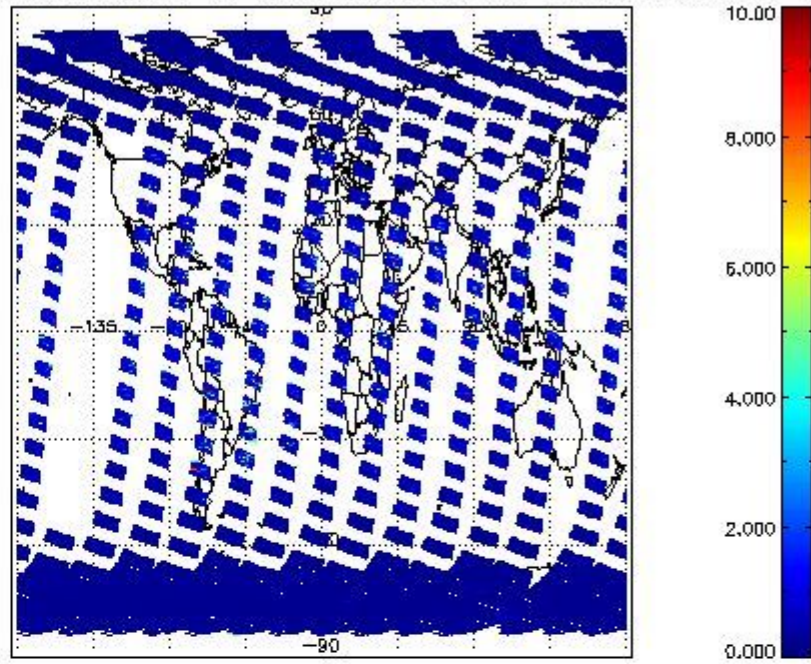
2.2.2.3 BrO (UV3)



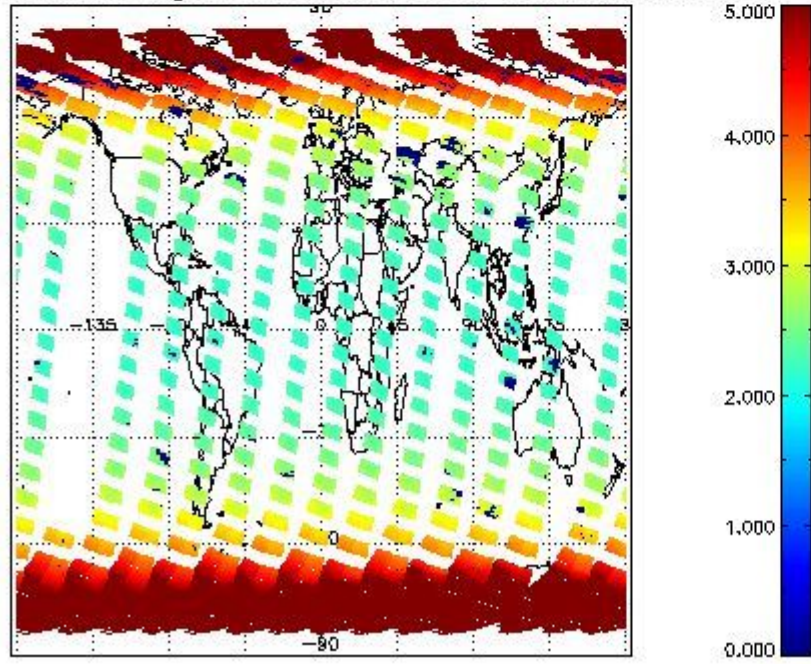
SCIOL2P_NADUV3BRO_vcd for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



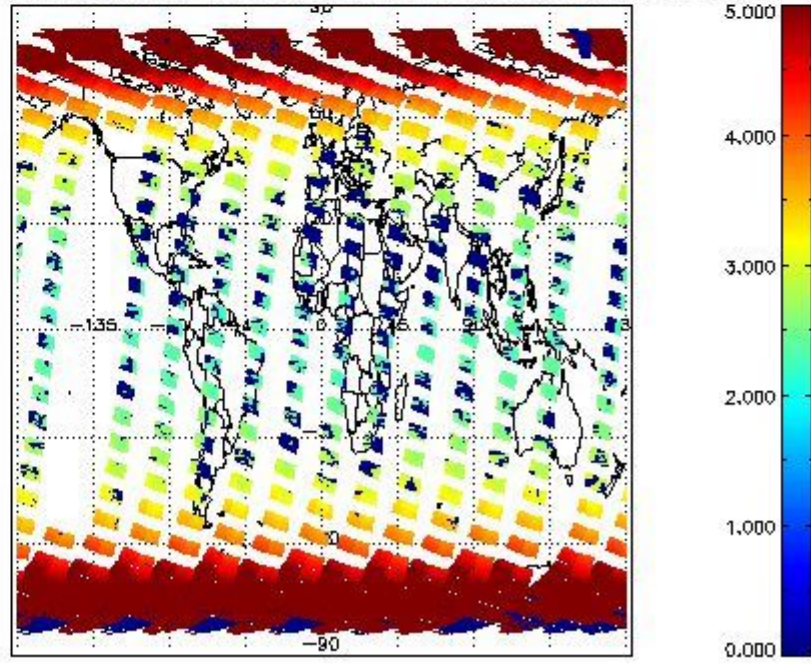
SCIOL2P_NADUV3BRO_vcd_err for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



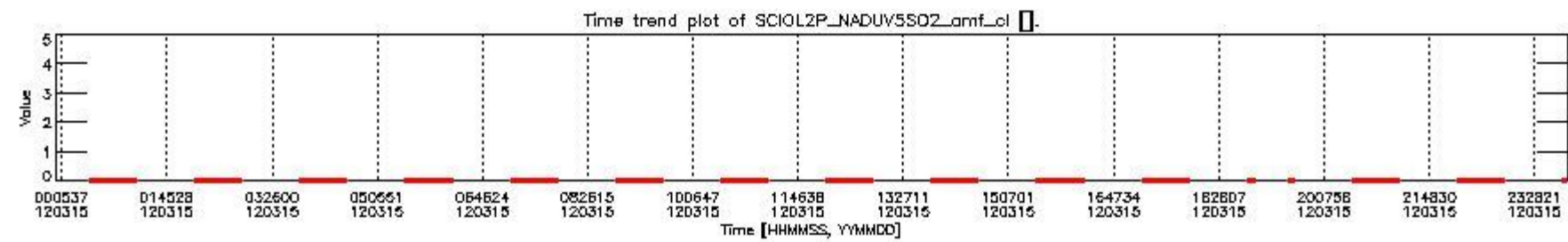
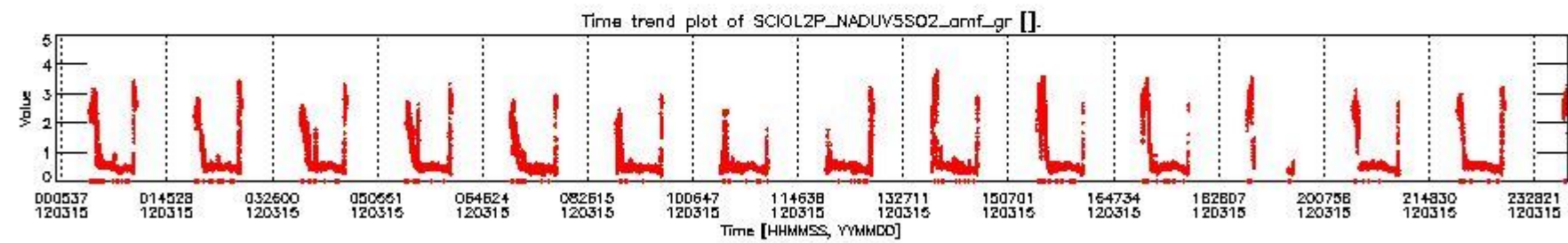
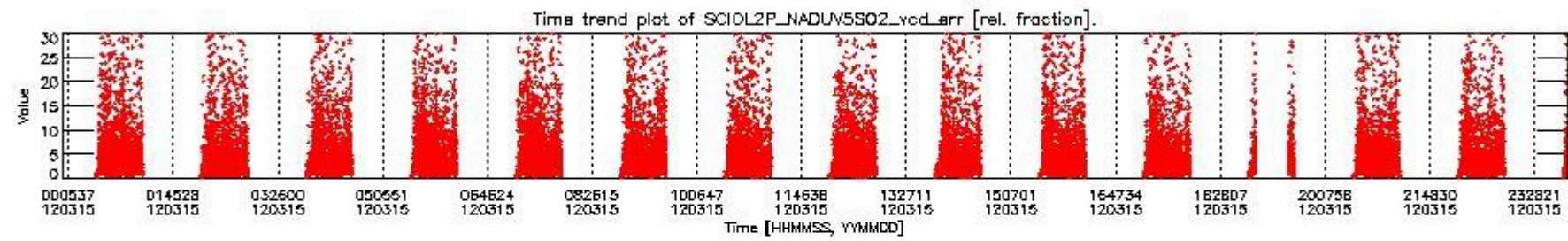
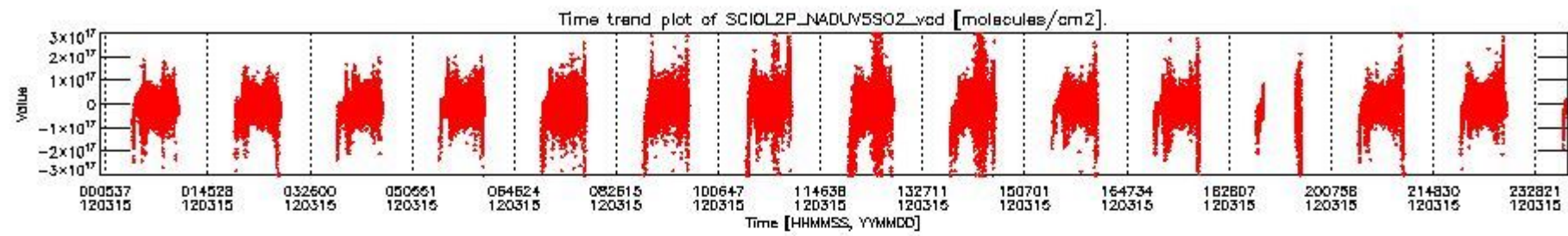
SCIOL2P_NADUV3BRO_amf_gr for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



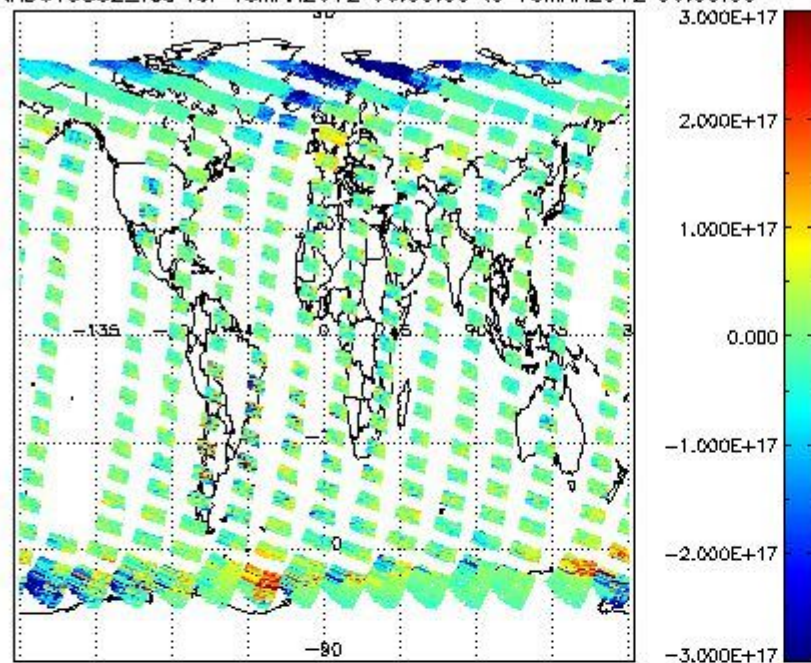
SCIOL2P_NADUV3BRO_amf_cl for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



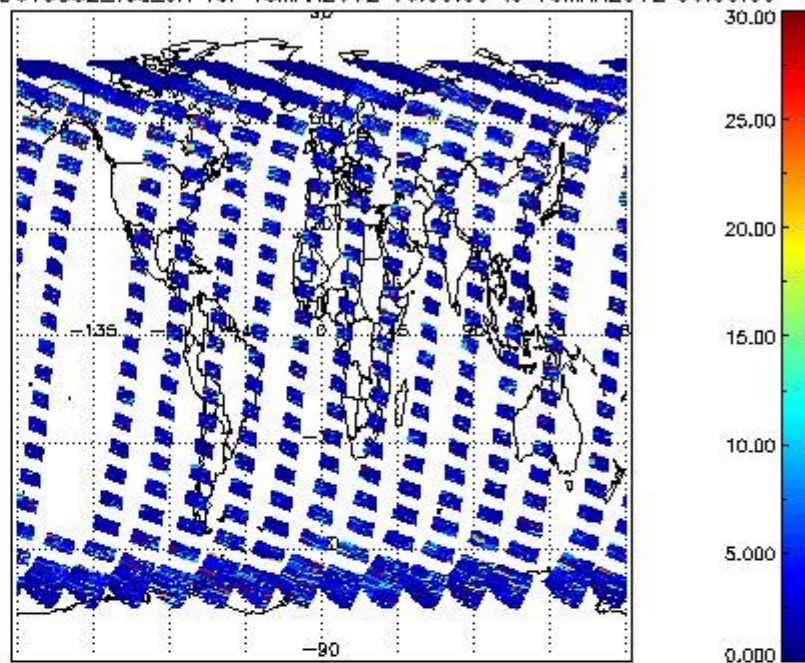
2.2.2.4 SO2 (UV5)



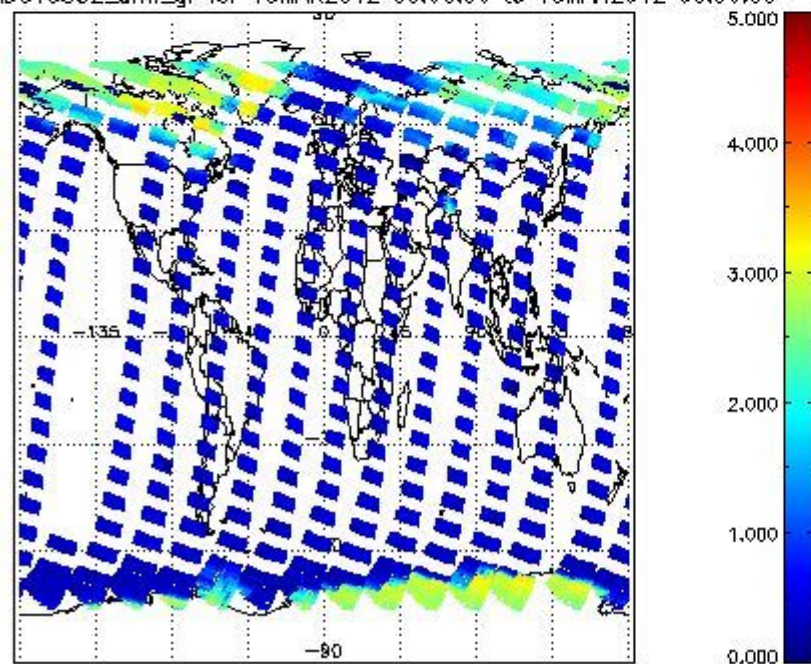
SCIOL2P_NADUV5SO2_vcd for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



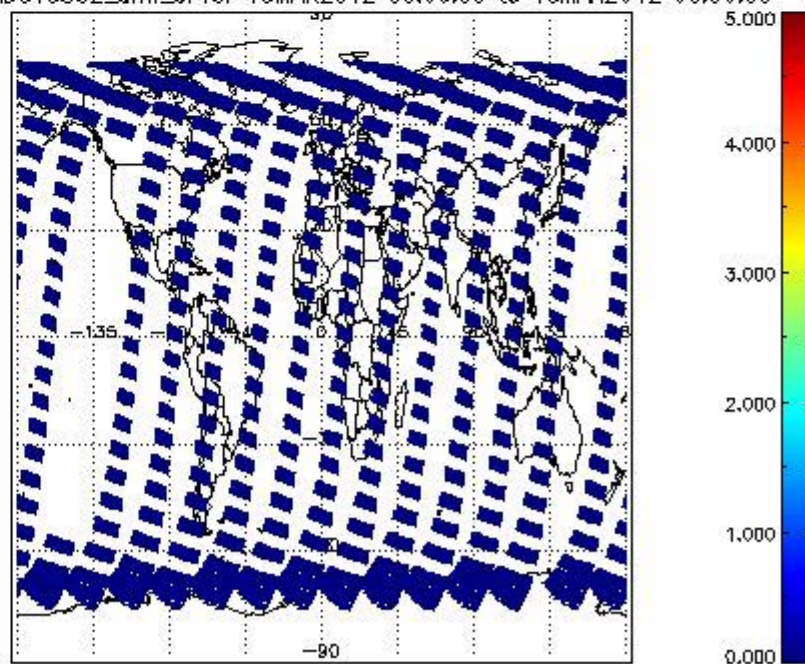
SCIOL2P_NADUV5SO2_vcd_err for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



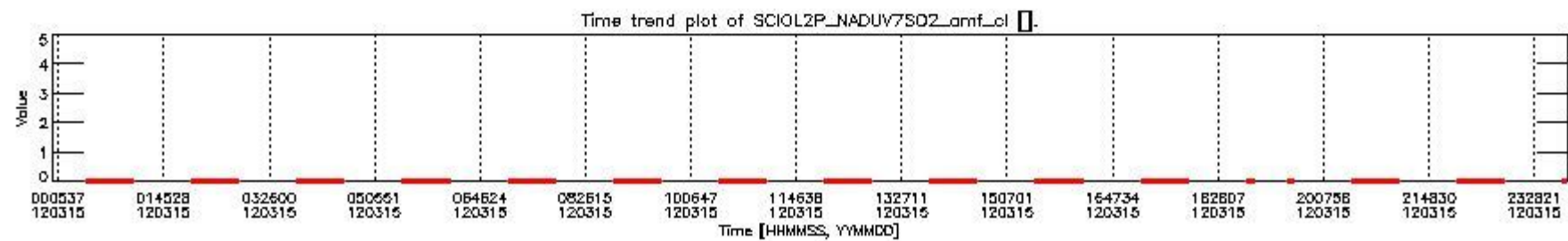
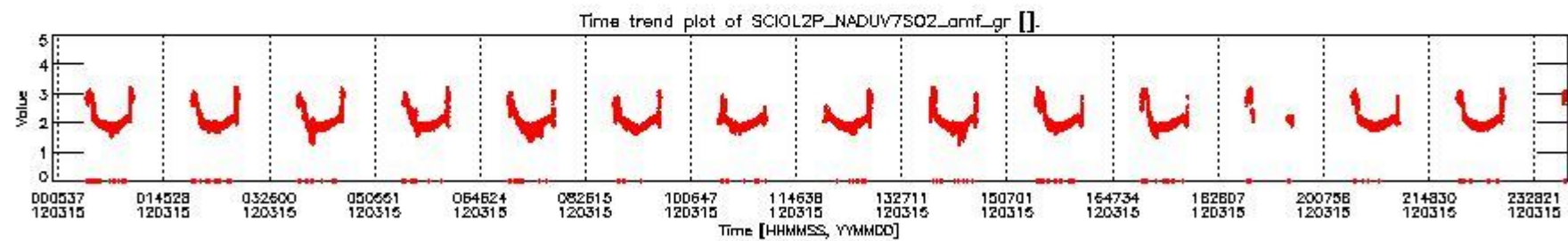
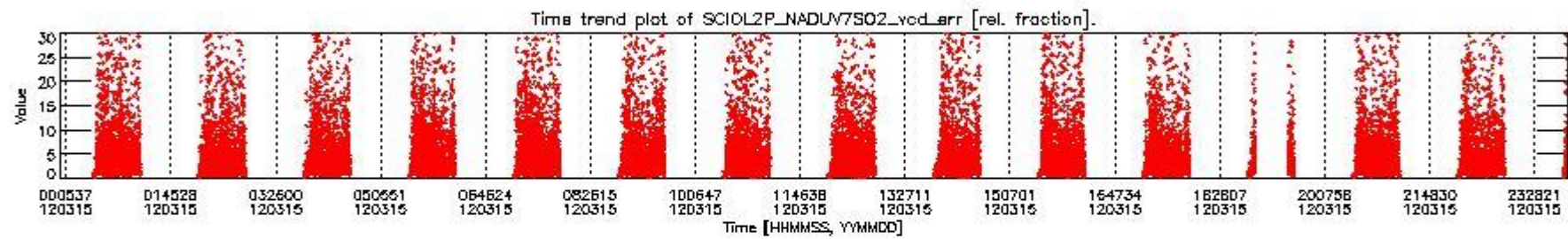
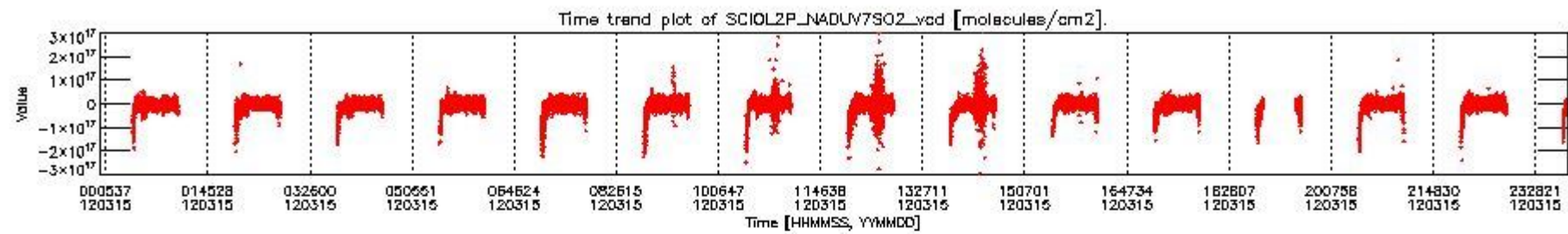
SCIOL2P_NADUV5SO2_amf_gr for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



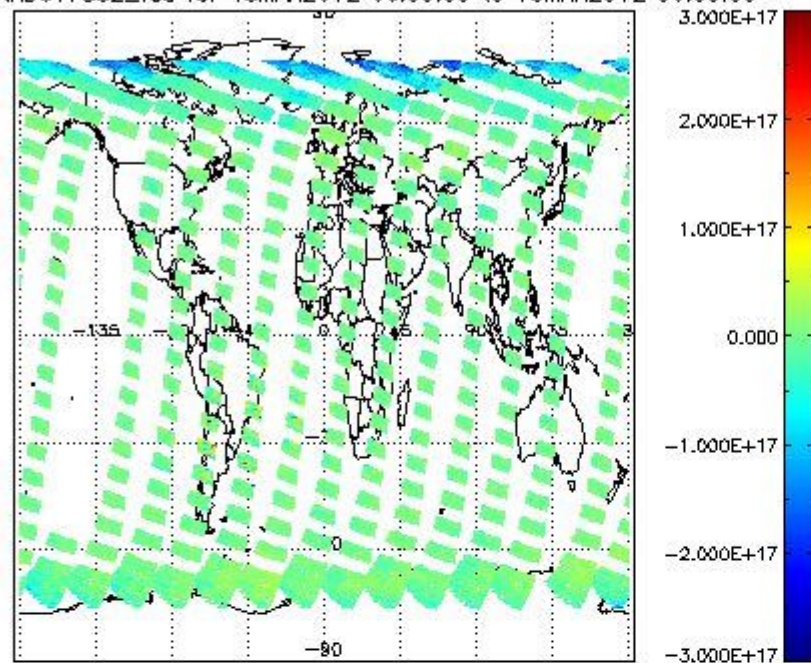
SCIOL2P_NADUV5SO2_amf_cl for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



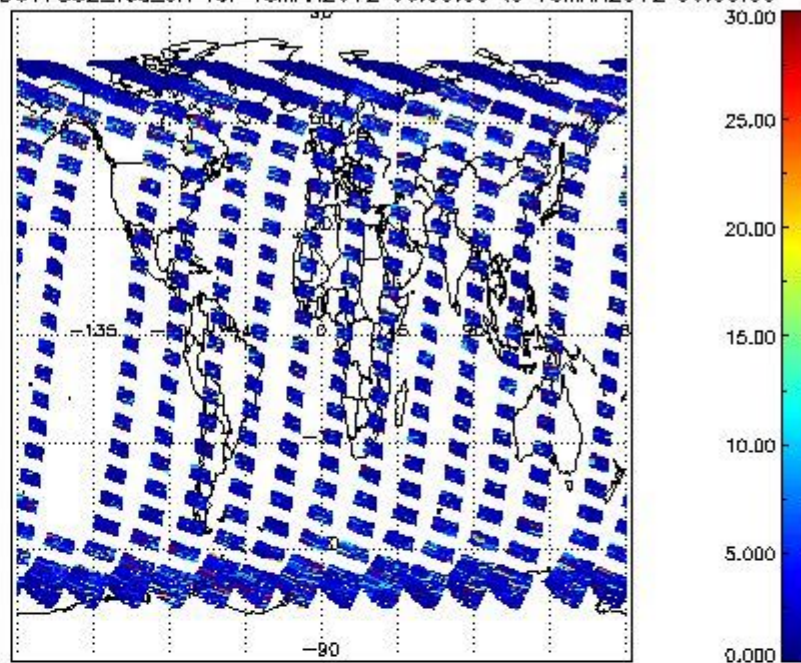
2.2.2.5 SO2 (UV7)



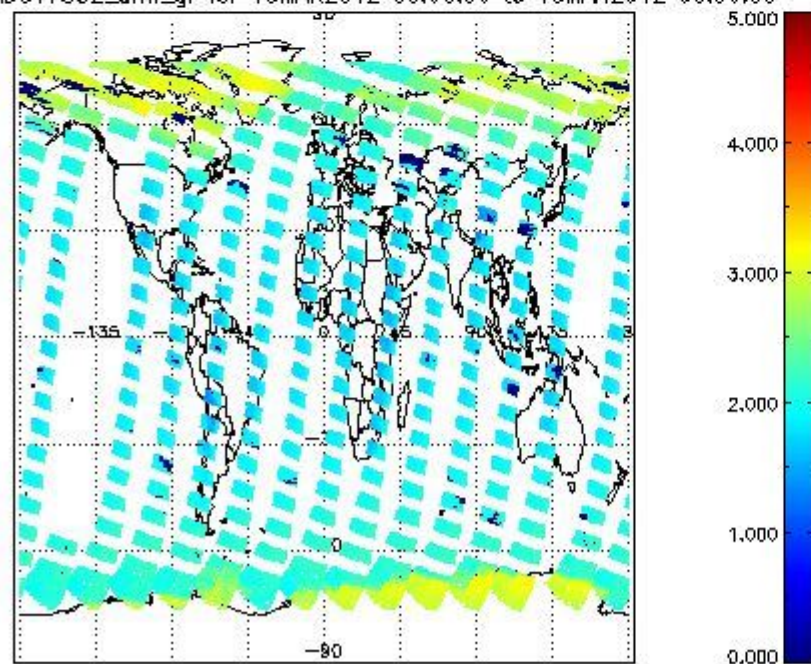
SCIOL2P_NADUV7S02_vcd for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



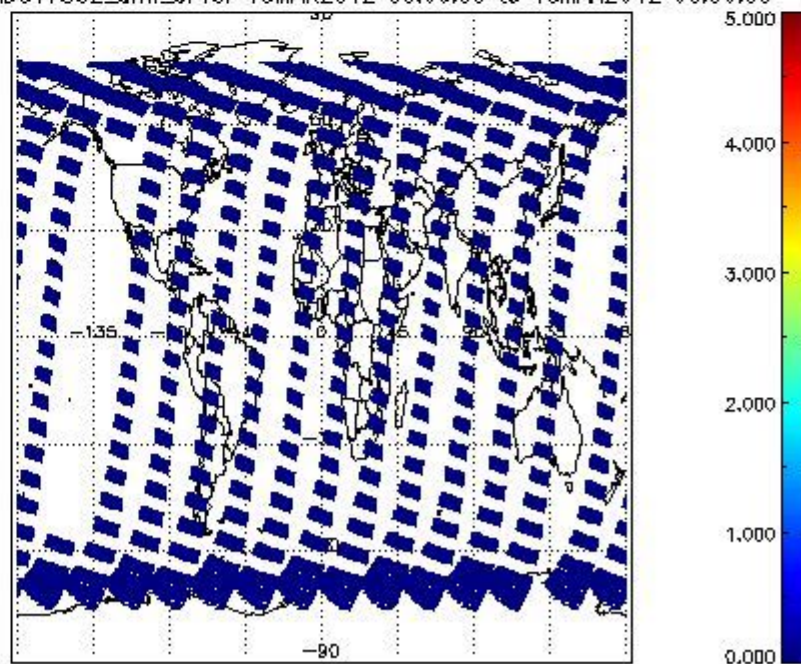
SCIOL2P_NADUV7S02_vcd_err for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



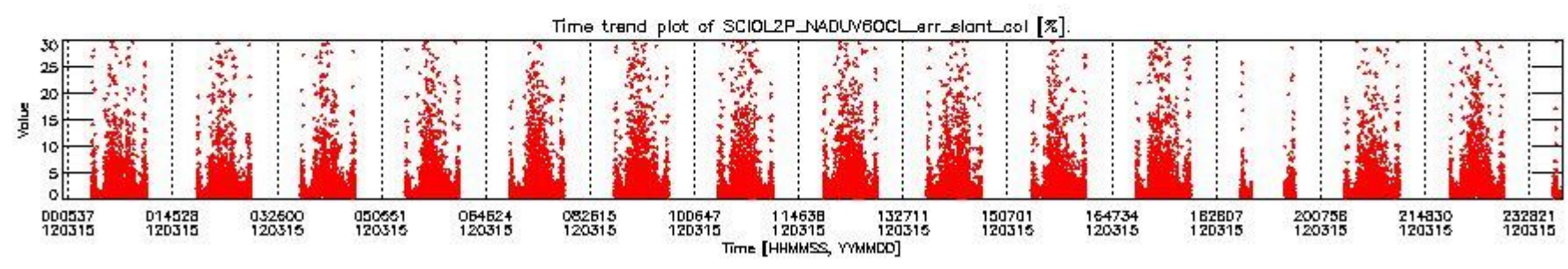
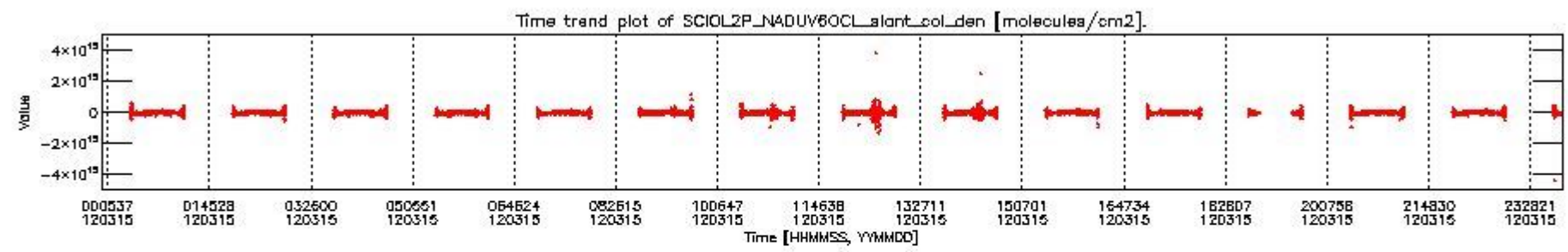
SCIOL2P_NADUV7S02_amf_gr for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



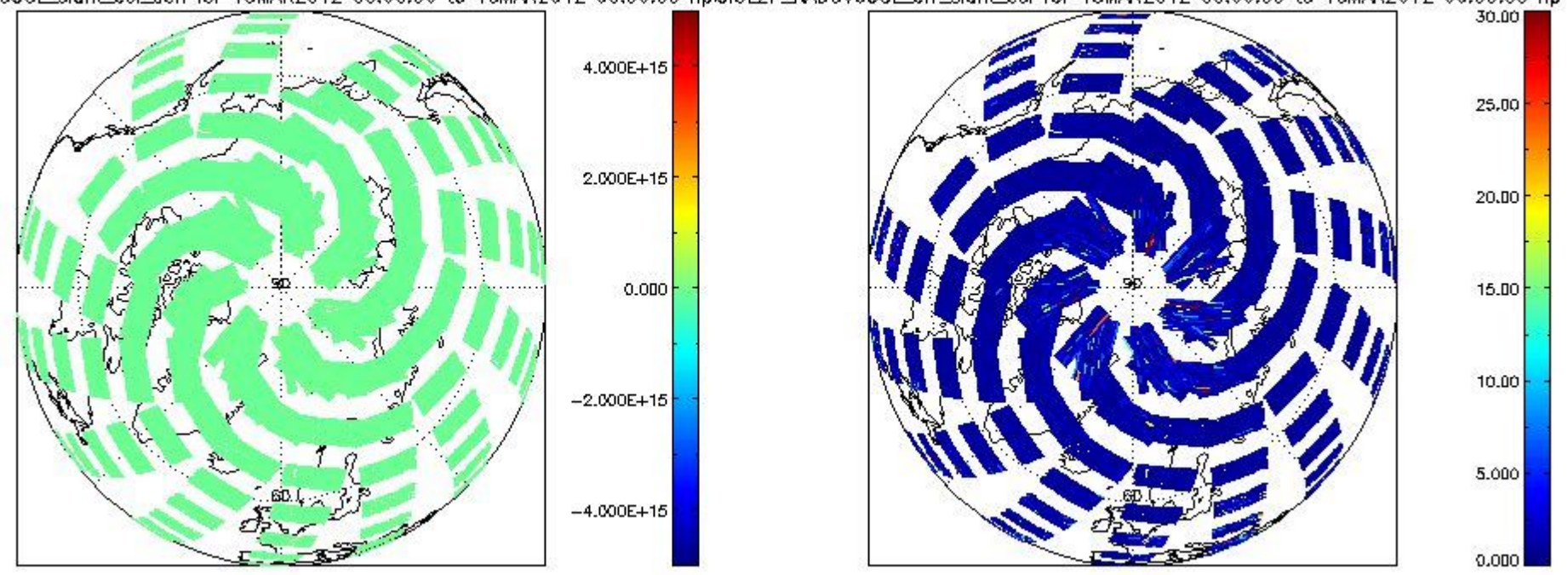
SCIOL2P_NADUV7S02_amf_cl for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



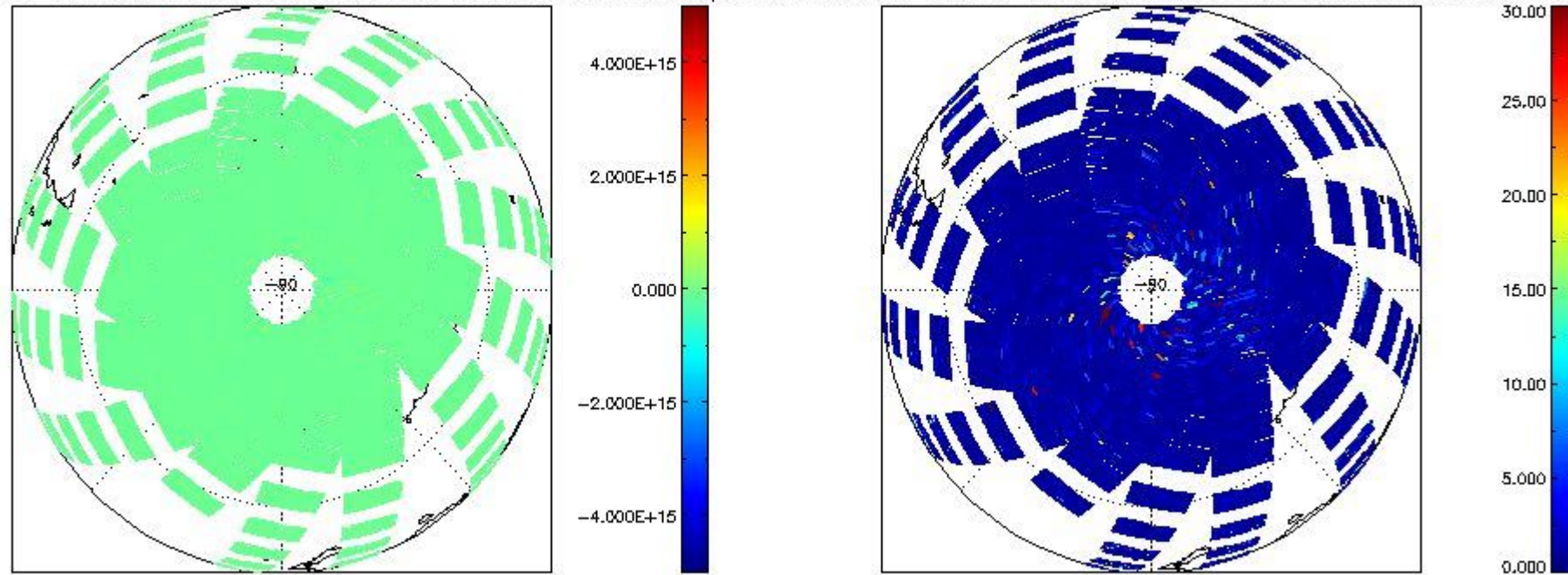
2.2.2.6 OCIO (UV6)



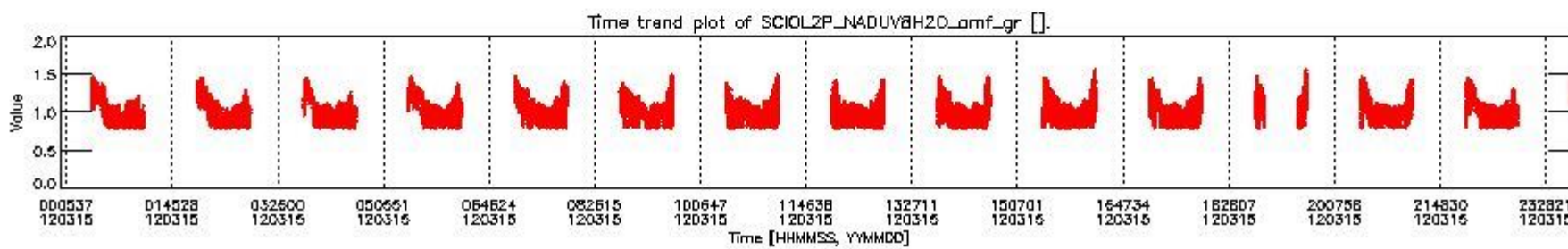
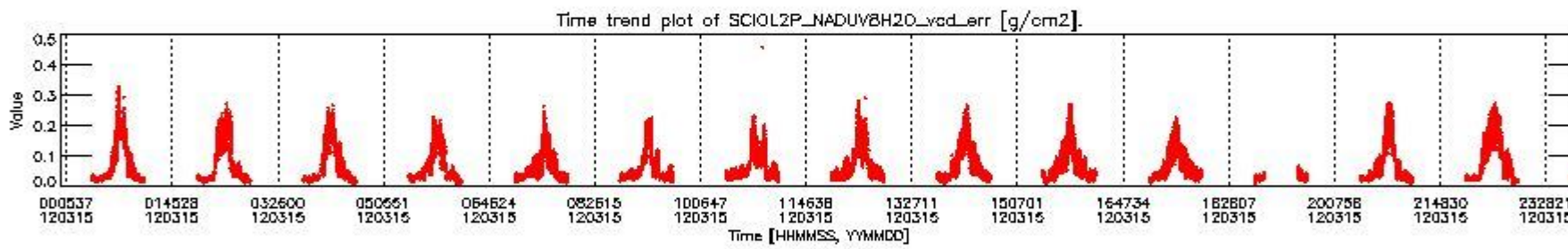
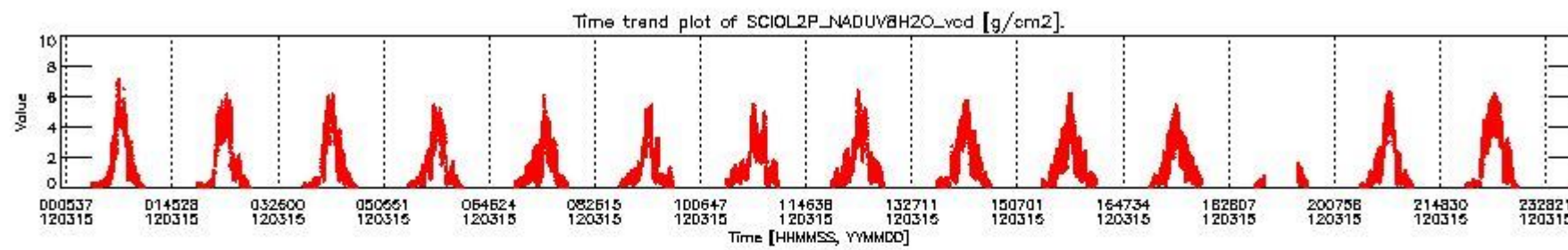
CIOL2P_NADUV6OCL_slant_col_den for 15MAR2012 00:00:00 to 16MAR2012 00:00:00 np CIOL2P_NADUV6OCL_err_slant_col for 15MAR2012 00:00:00 to 16MAR2012 00:00:00 np



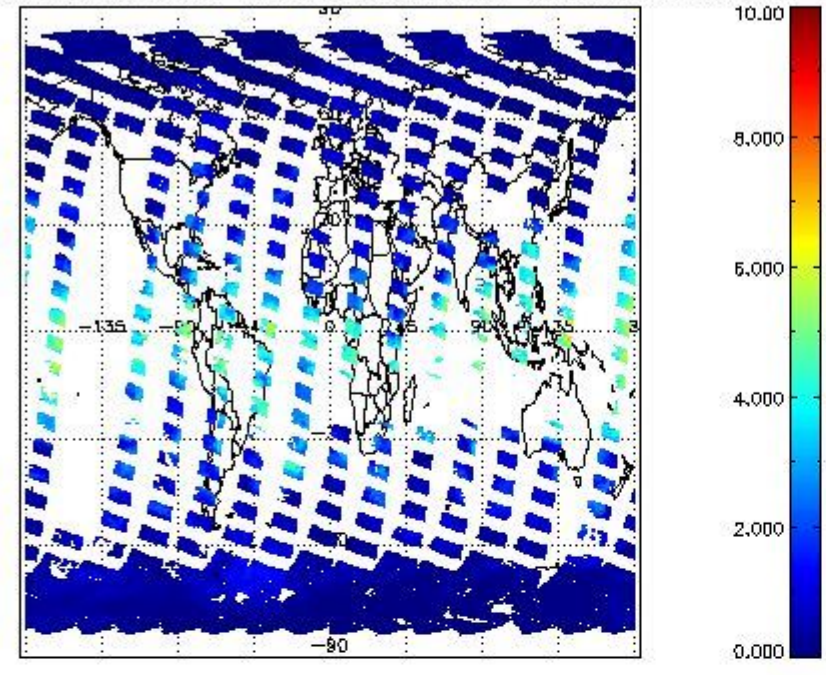
CIOL2P_NADUV6OCL_slant_coLden for 15MAR2012 00:00:00 to 16MAR2012 00:00:00 spCIOL2P_NADUV6OCL_err_slant_col for 15MAR2012 00:00:00 to 16MAR2012 00:00:00 sp



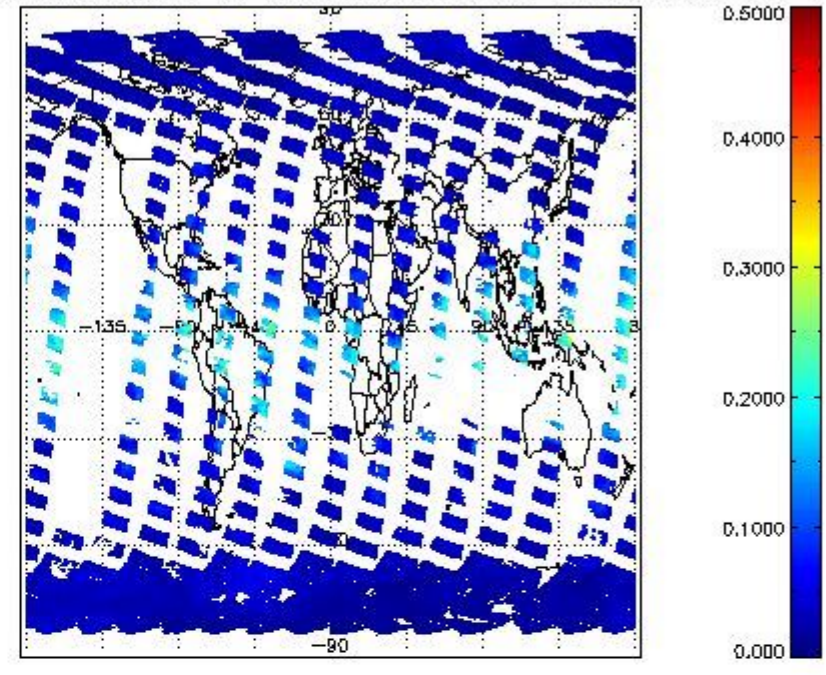
2.2.2.7 H2O (UV8)



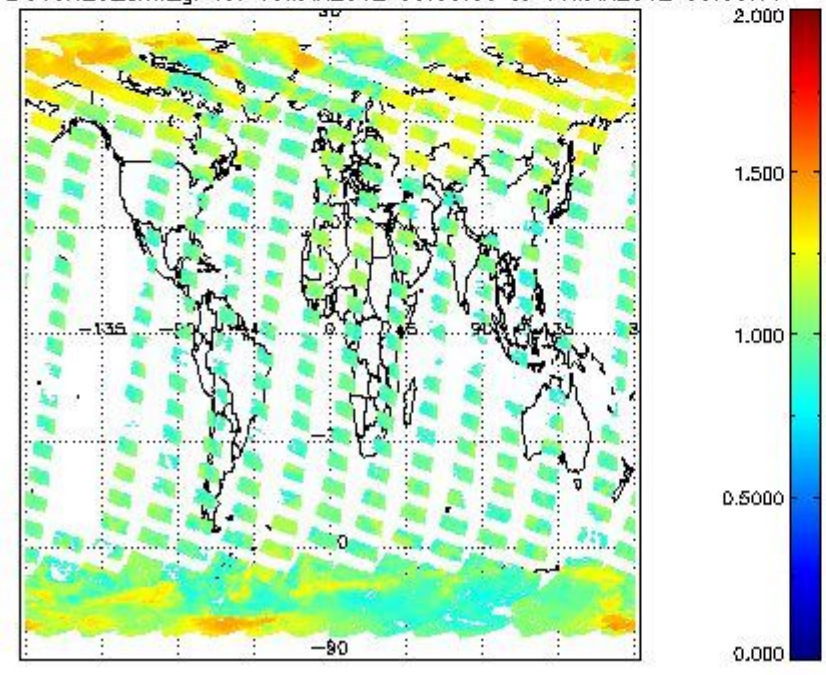
SCIOL2P_NADUV8H2O_vcd for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



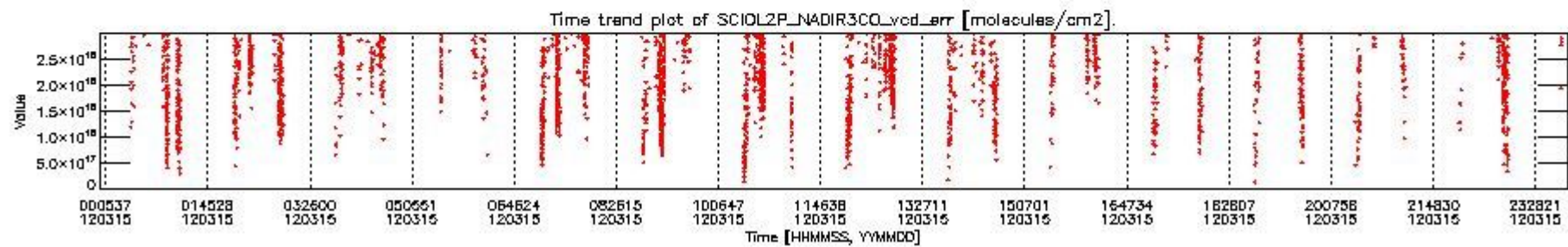
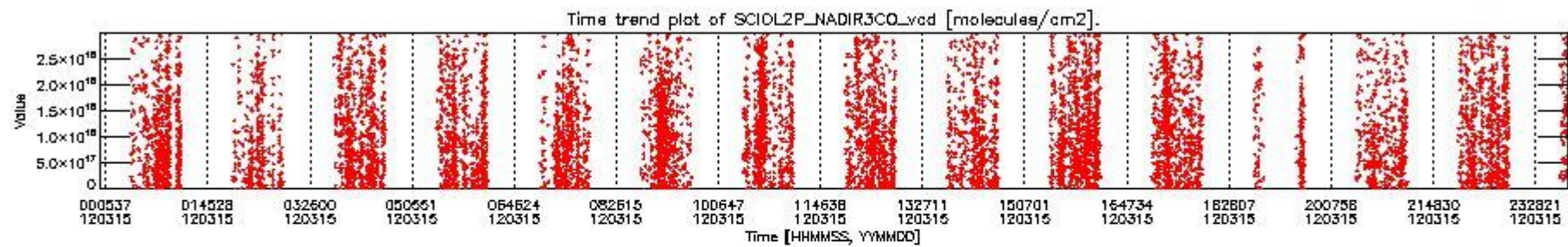
SCIOL2P_NADUV8H2O_vcd_err for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



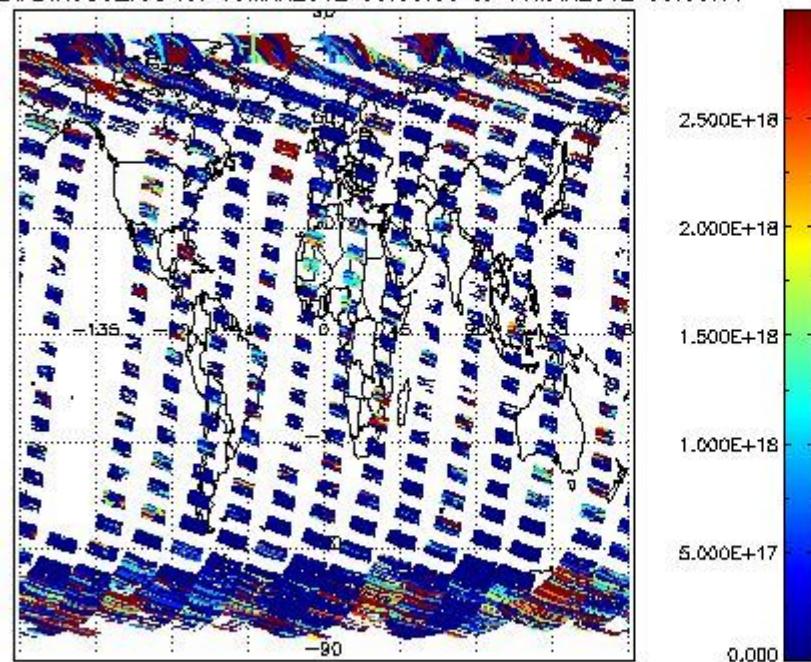
SCIOL2P_NADUV8H2O_arnf_gr for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



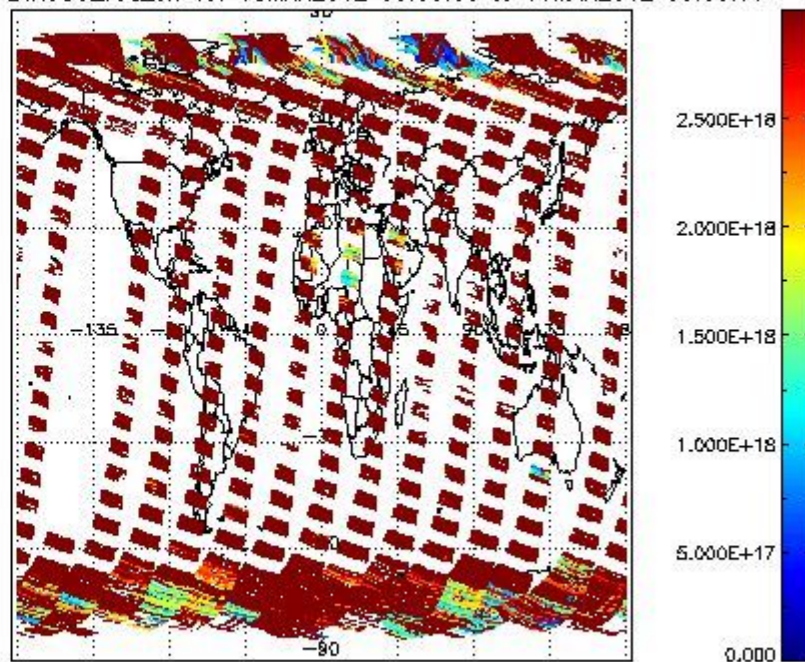
2.2.2.8 CO (IR3)



SCIOL2P_NADIR3CO_vcd for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



SCIOL2P_NADIR3CO_vcd_err for 15MAR2012 00:00:00 to 16MAR2012 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	No data available

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)

No data available for O3 (UV0)

2.2.3.2 NO2 (UV1)

No data available for NO2 (UV1)

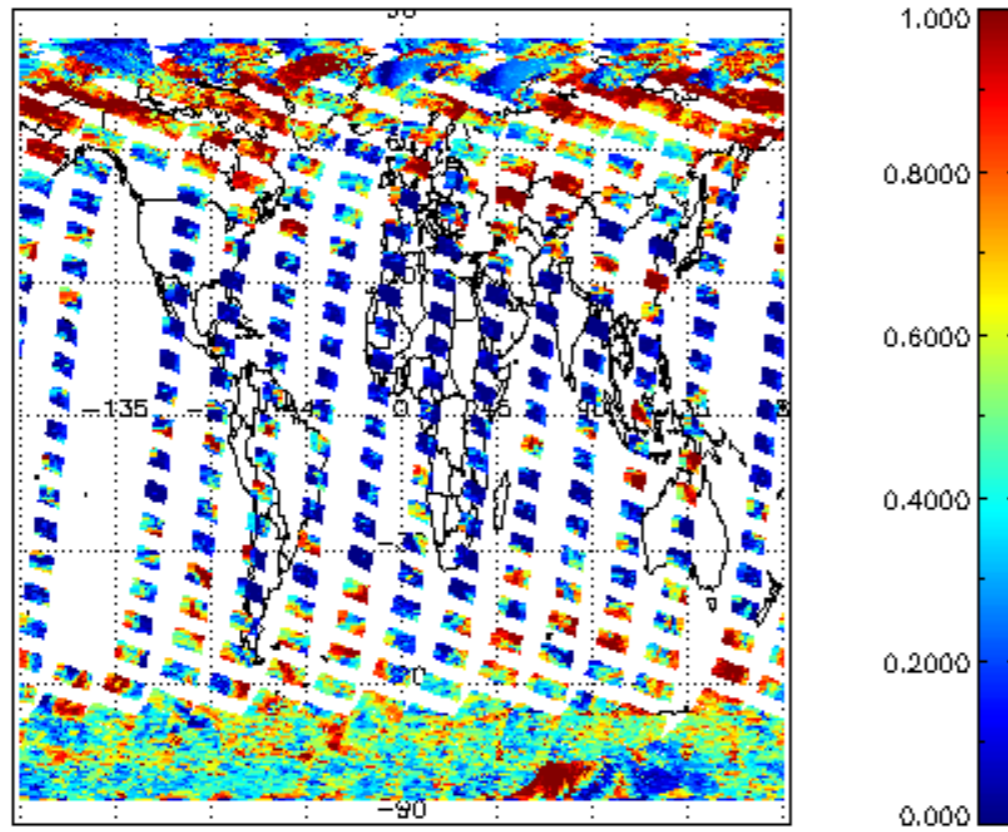
2.2.3.3 BrO (UV3)

No data available for BrO (UV3)

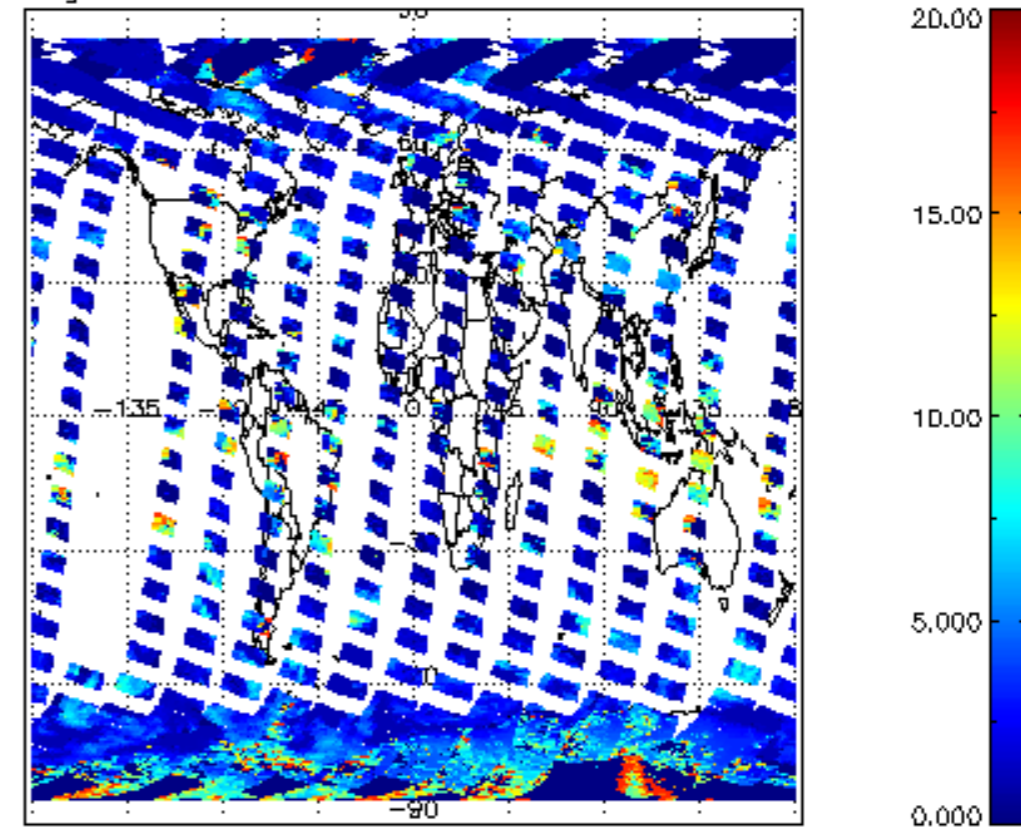
2.3 ADF monitoring

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_AXVIEC20120320_165837_20120314_184615_20120316_184615
3	SCI_MF1_AXVIEC20120320_165950_20120315_180929_20120317_180929

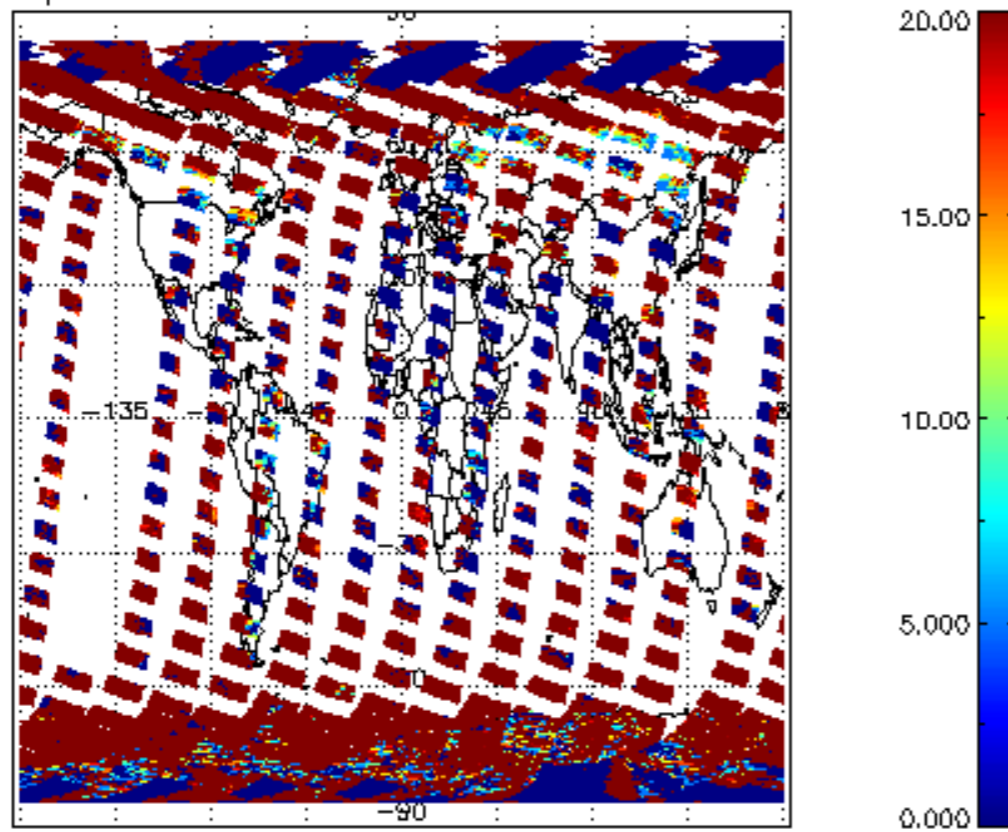
cLfrac for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



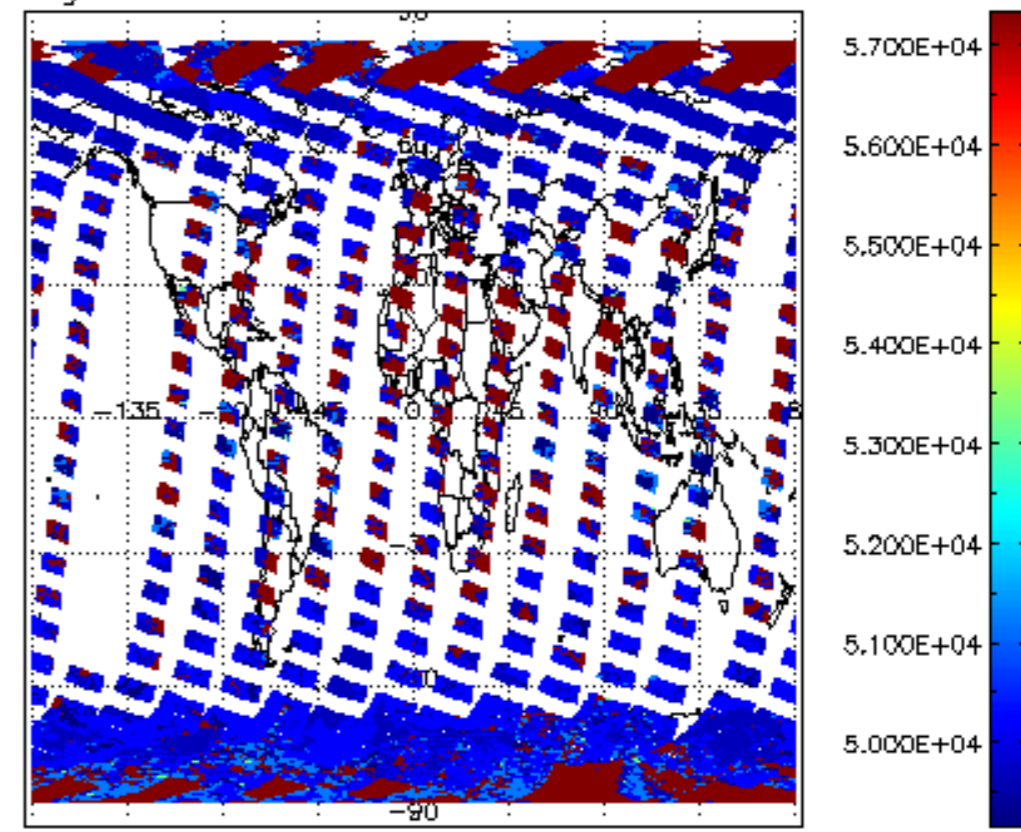
cL_top_height for 15MAR2012 00:00:00 to 16MAR2012 00:00:00

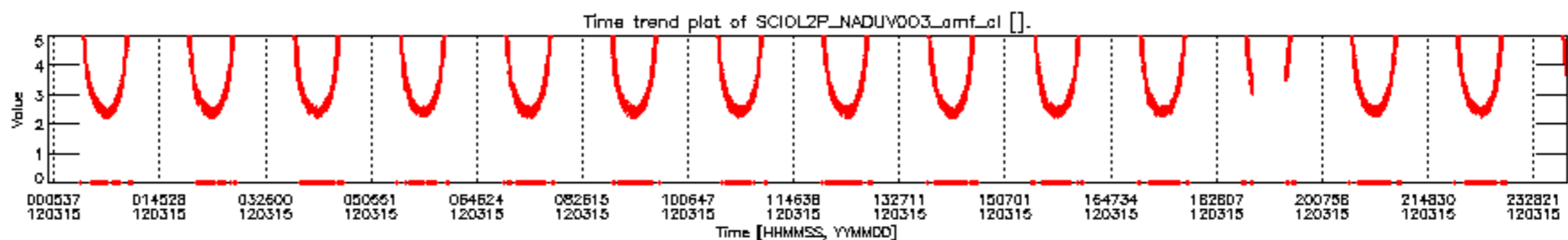
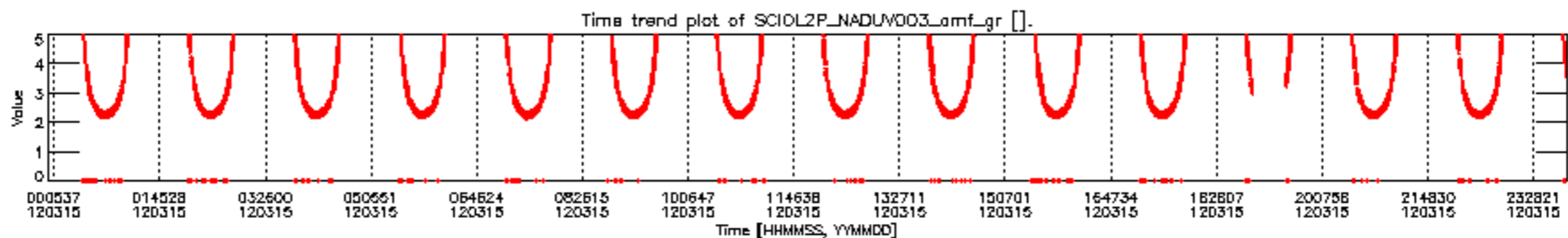
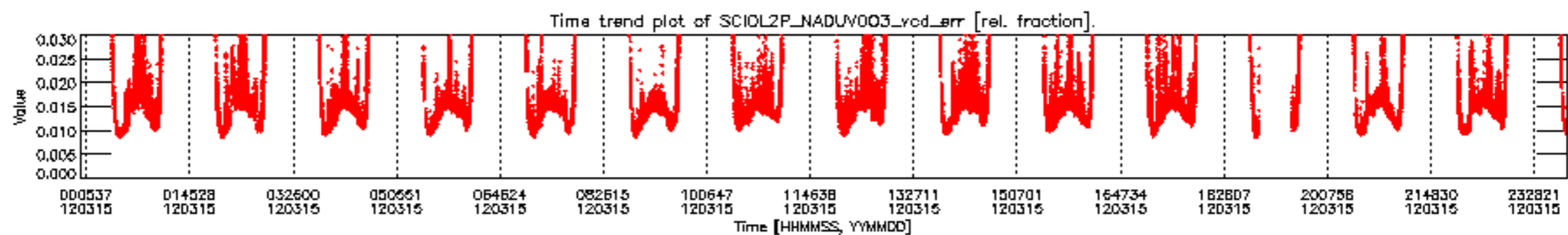
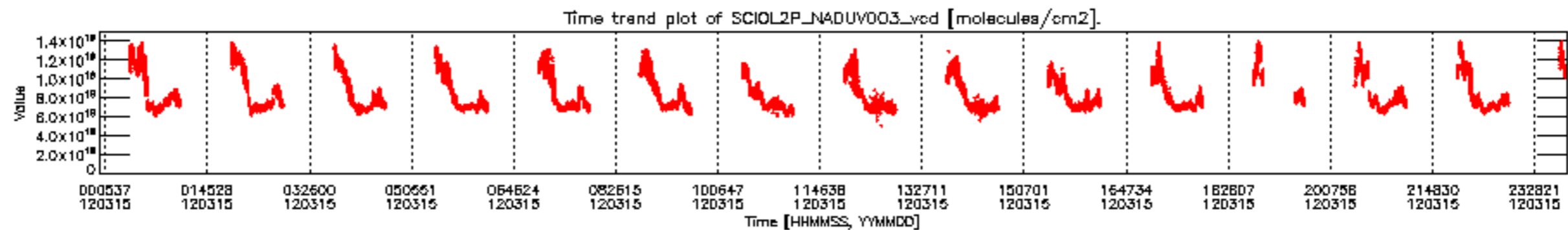


cL_opt_depth for 15MAR2012 00:00:00 to 16MAR2012 00:00:00

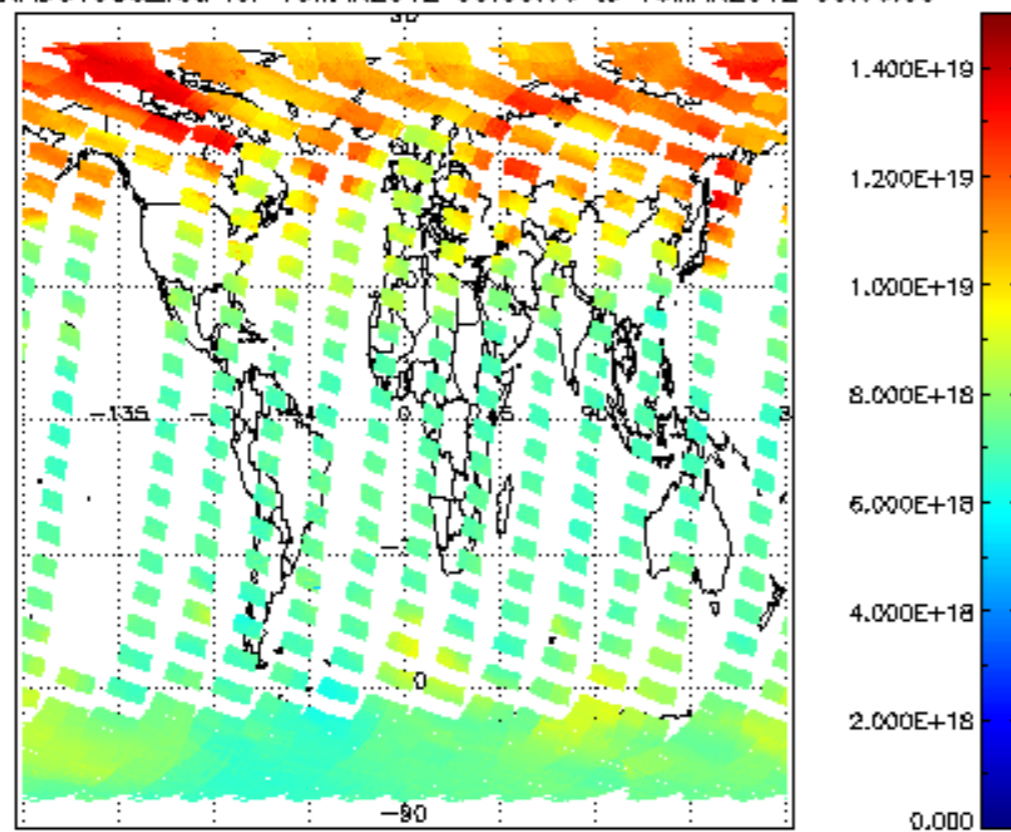


cloud_flags for 15MAR2012 00:00:00 to 16MAR2012 00:00:00

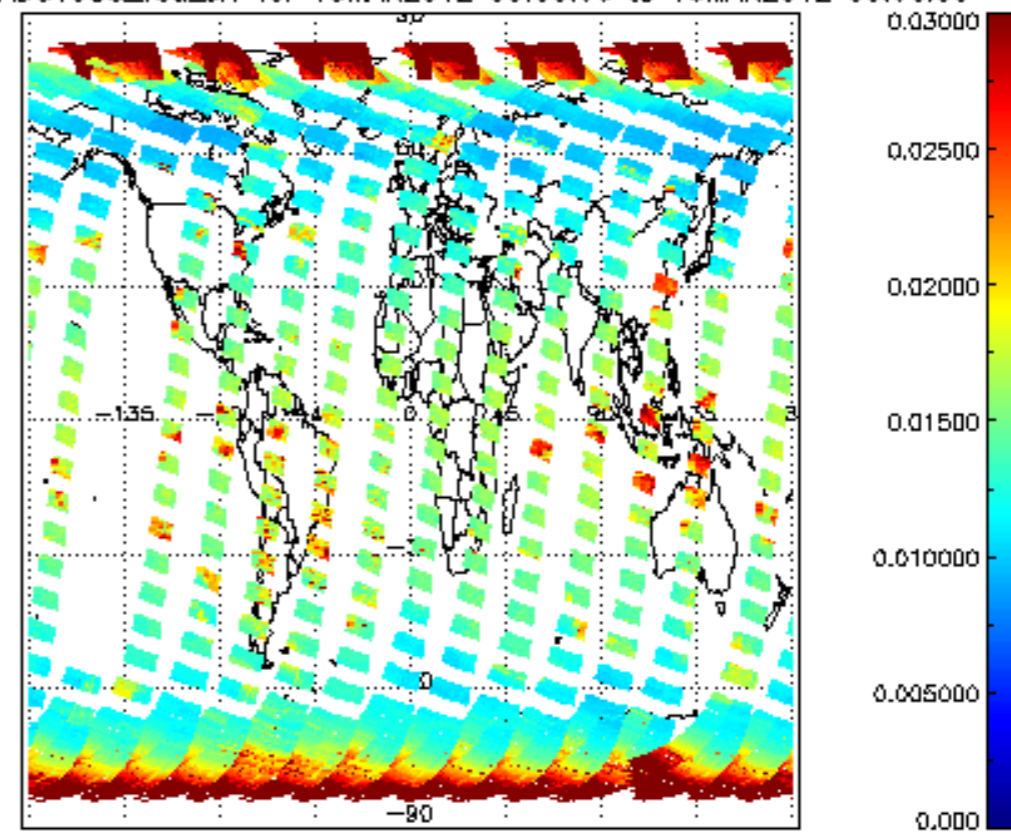




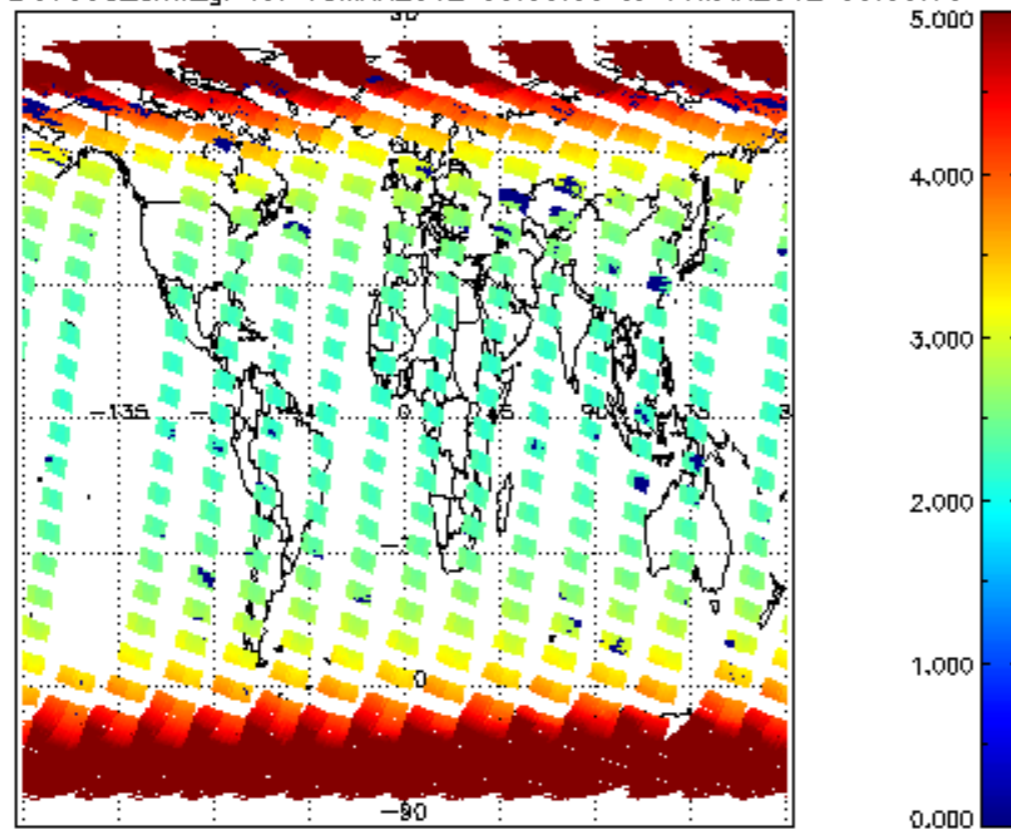
SCIOL2P_NADUV003_vcd for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



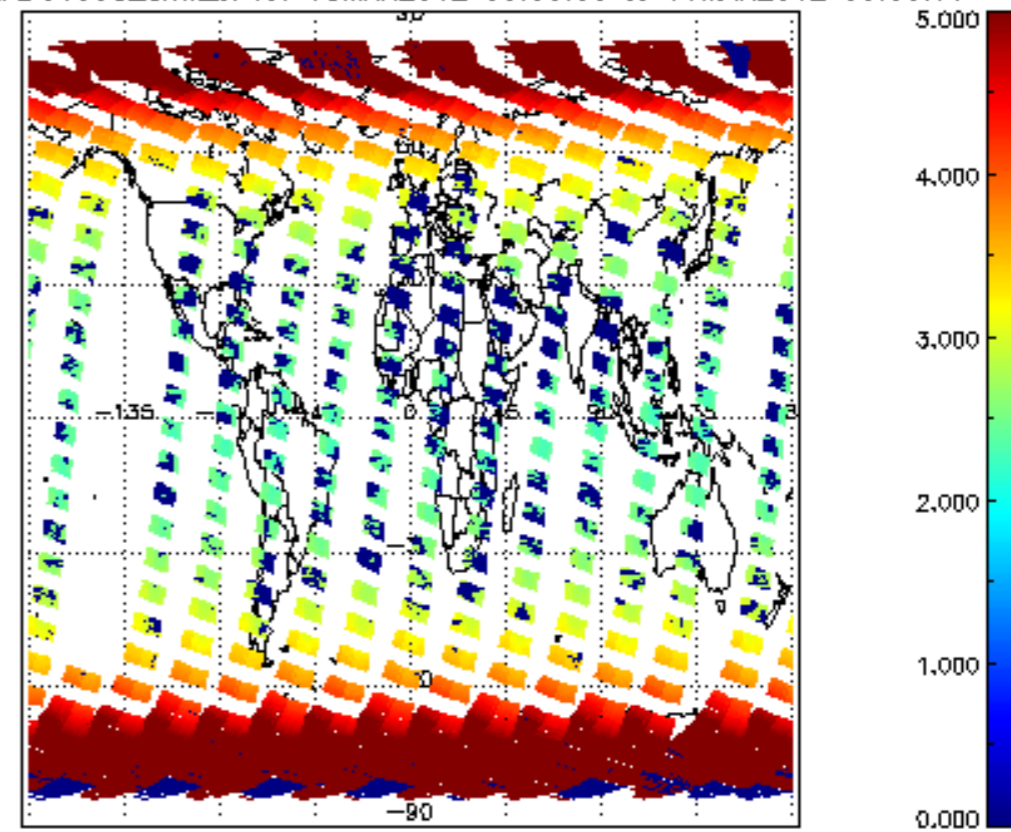
SCIOL2P_NADUV003_vcd_err for 15MAR2012 00:00:00 to 16MAR2012 00:00:00

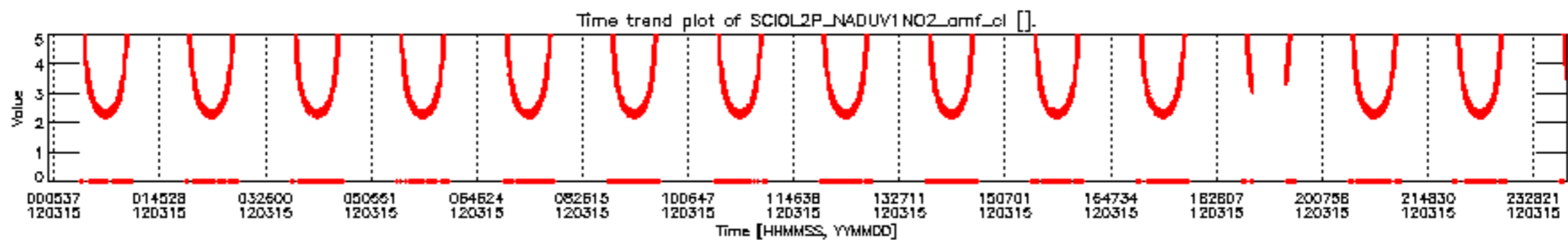
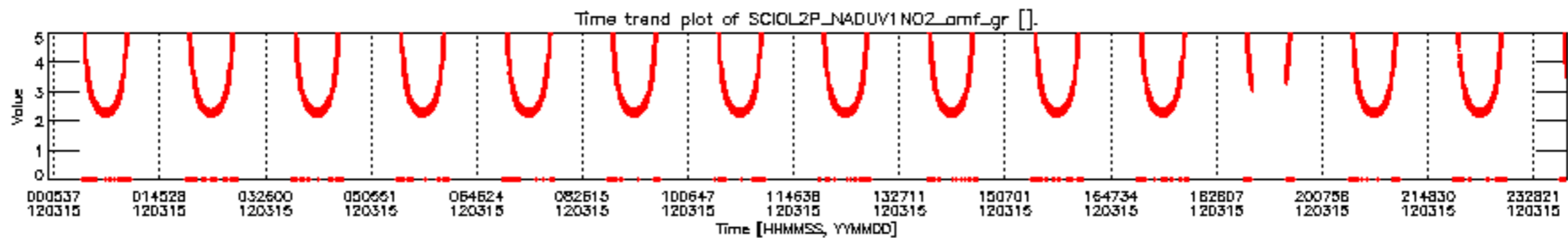
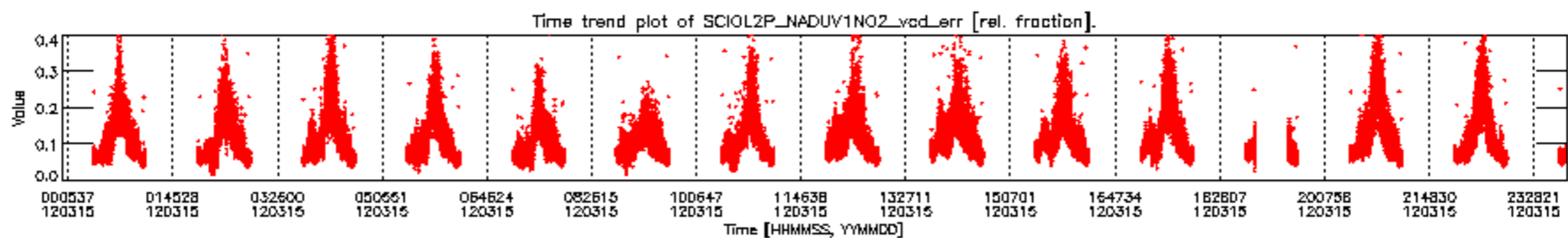
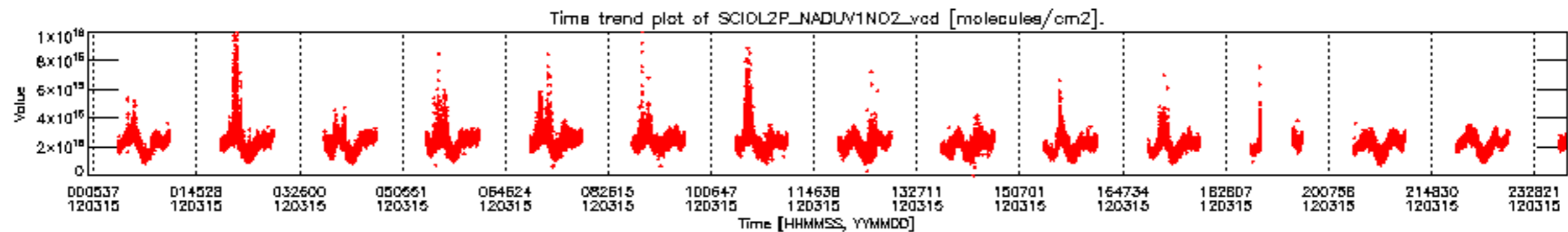


SCIOL2P_NADUV003_arnf_gr for 15MAR2012 00:00:00 to 16MAR2012 00:00:00

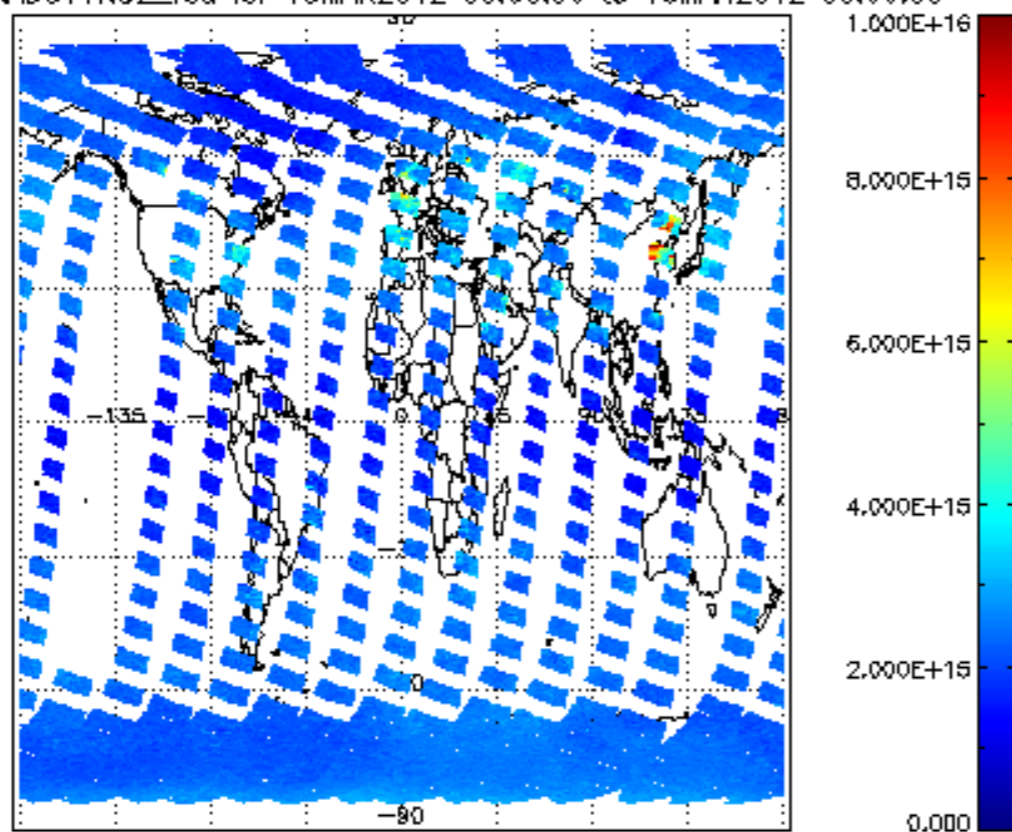


SCIOL2P_NADUV003_arnf_cl for 15MAR2012 00:00:00 to 16MAR2012 00:00:00

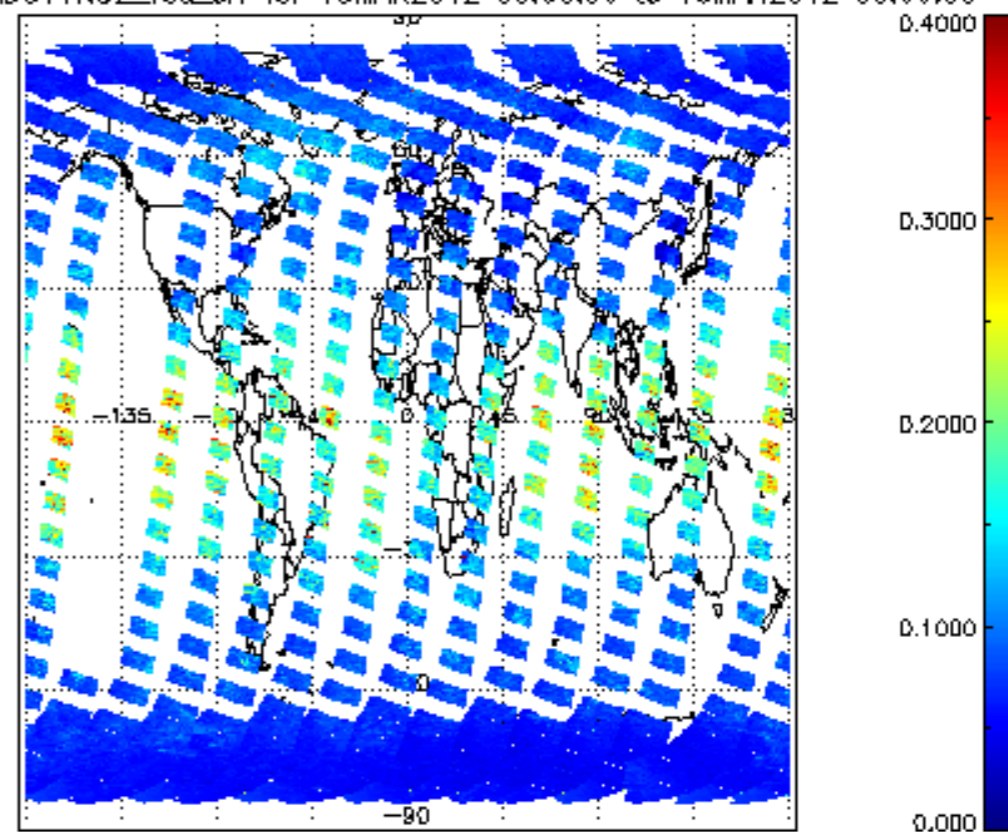




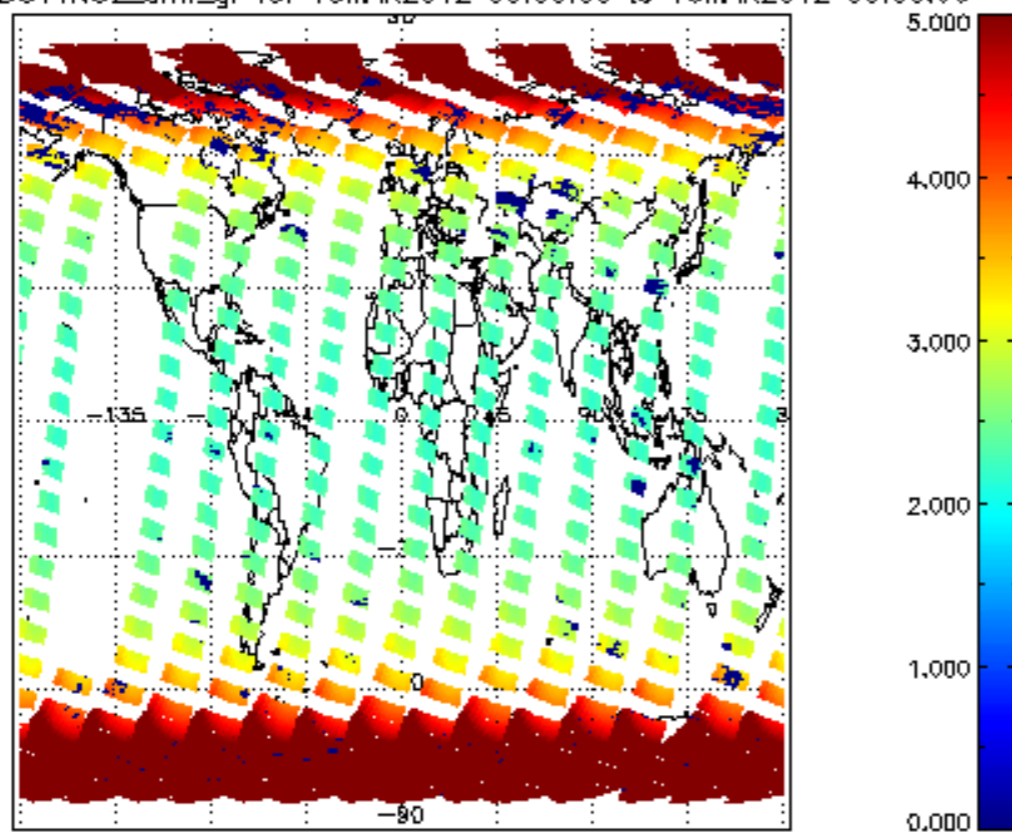
SCIOL2P_NADUV1NO2_vcd for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



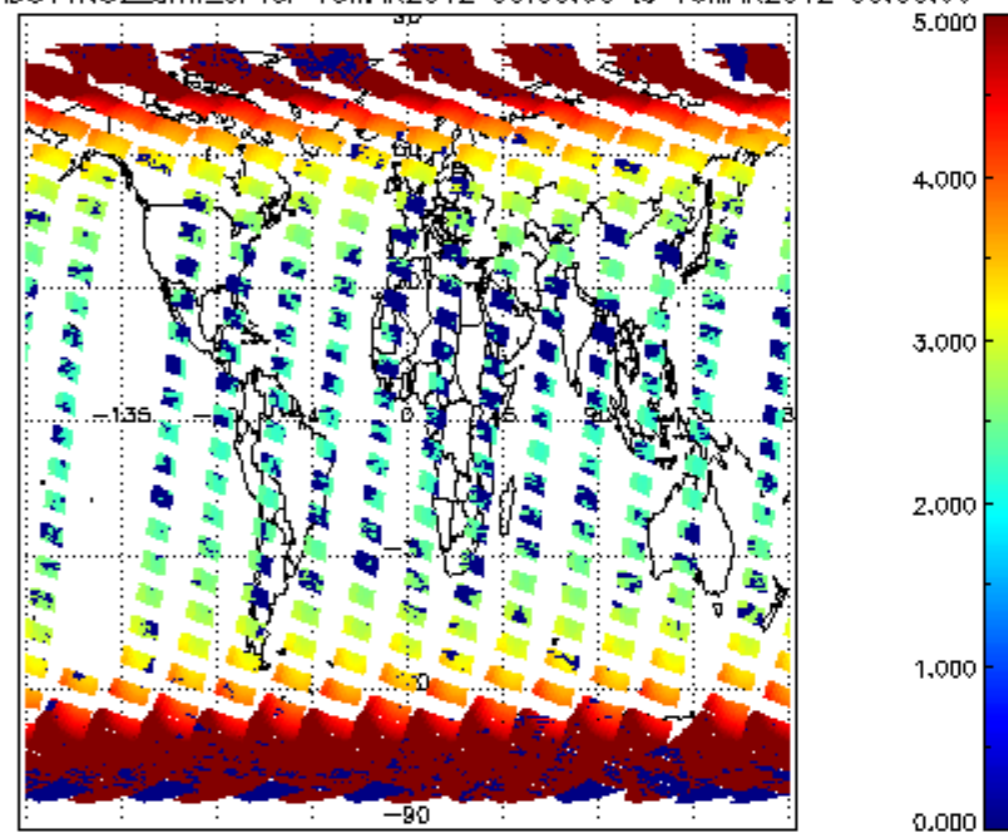
SCIOL2P_NADUV1NO2_vcd_err for 15MAR2012 00:00:00 to 16MAR2012 00:00:00

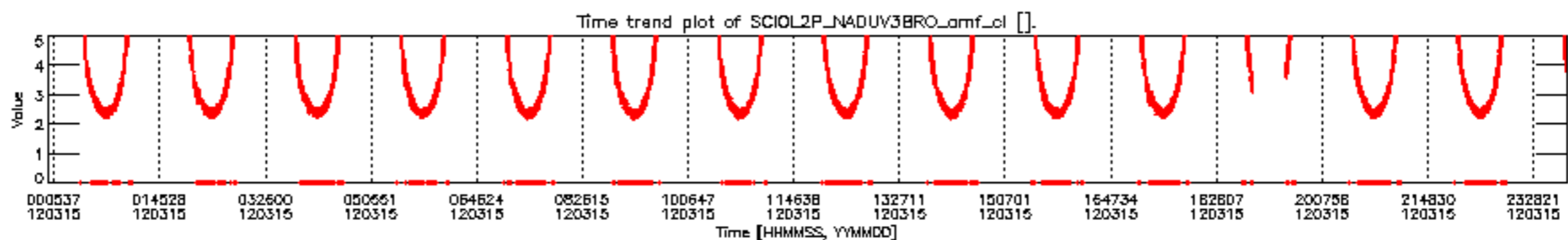
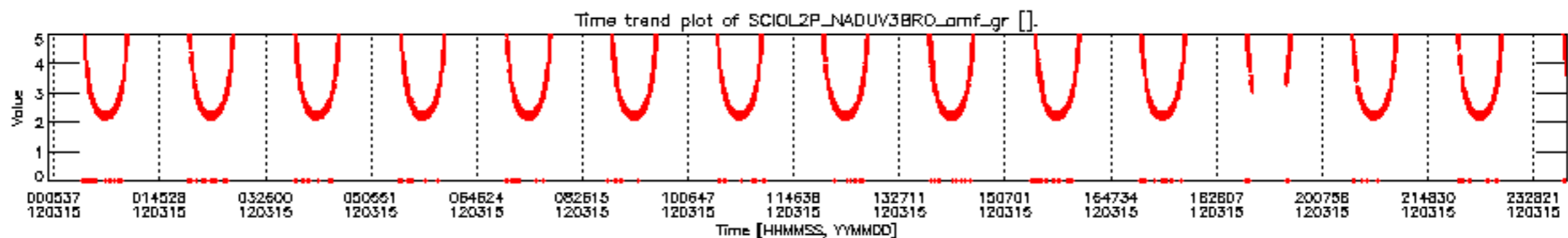
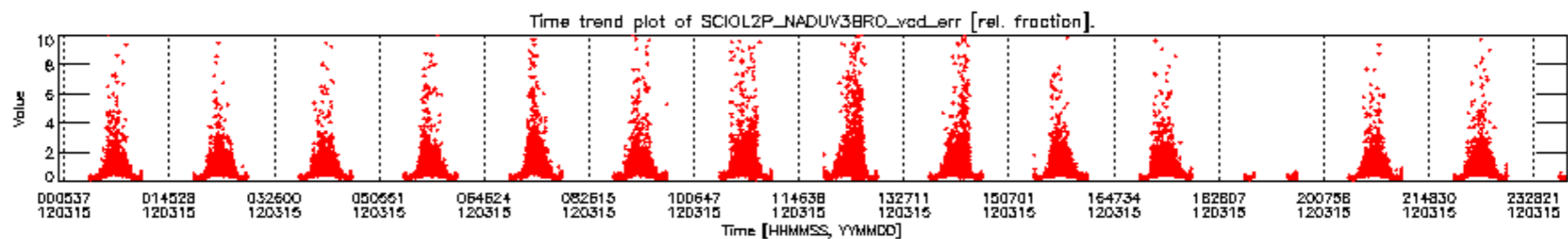
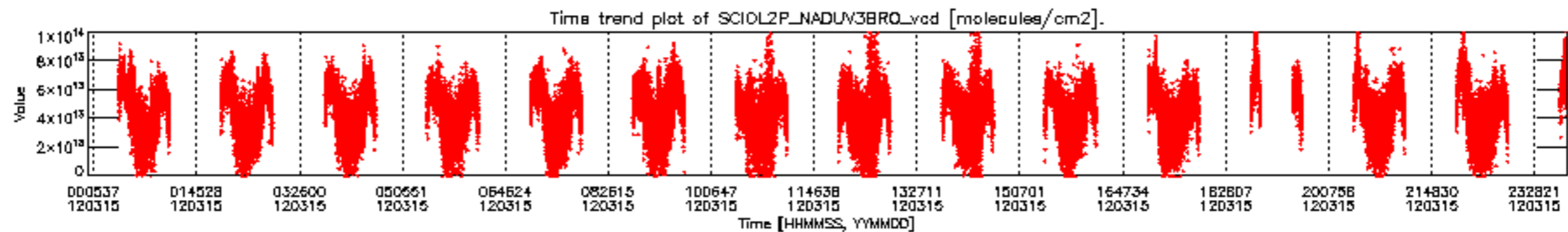


SCIOL2P_NADUV1NO2_amf_gr for 15MAR2012 00:00:00 to 16MAR2012 00:00:00

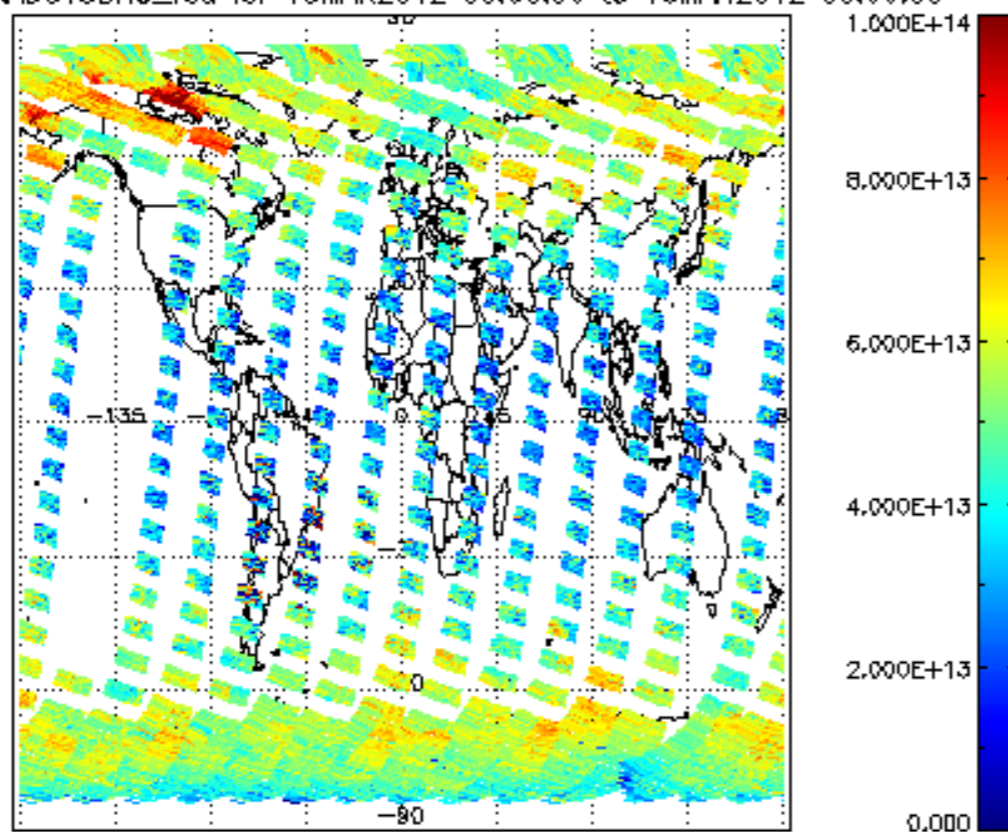


SCIOL2P_NADUV1NO2_amf_cl for 15MAR2012 00:00:00 to 16MAR2012 00:00:00

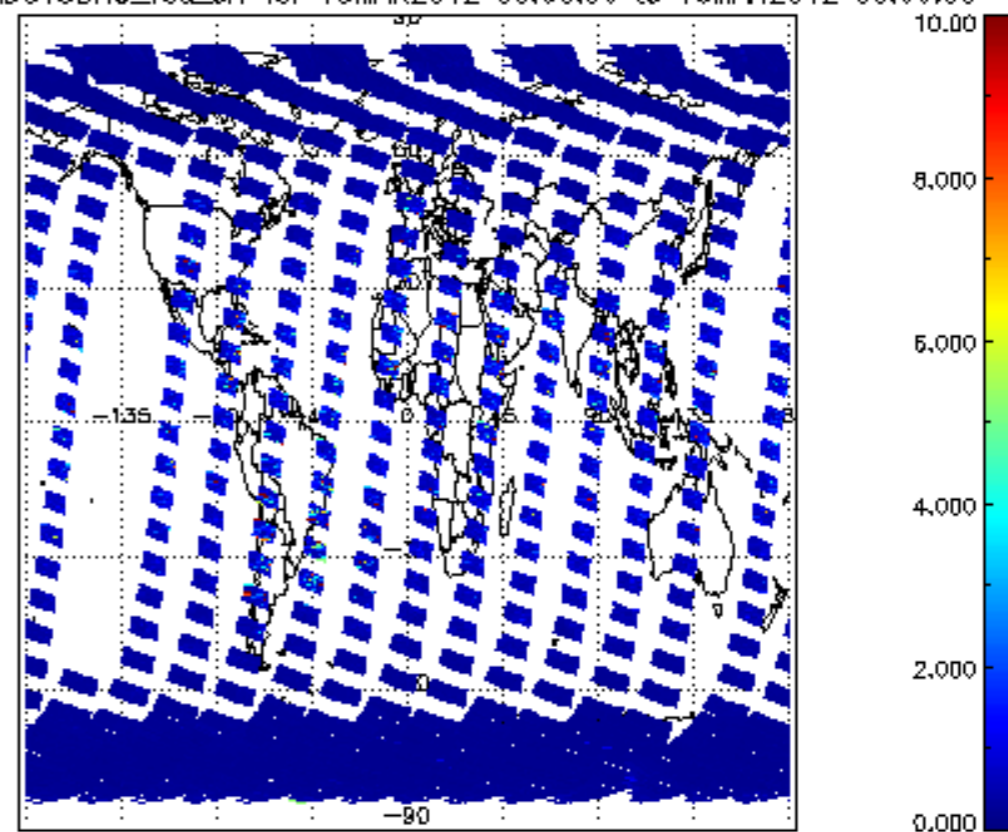




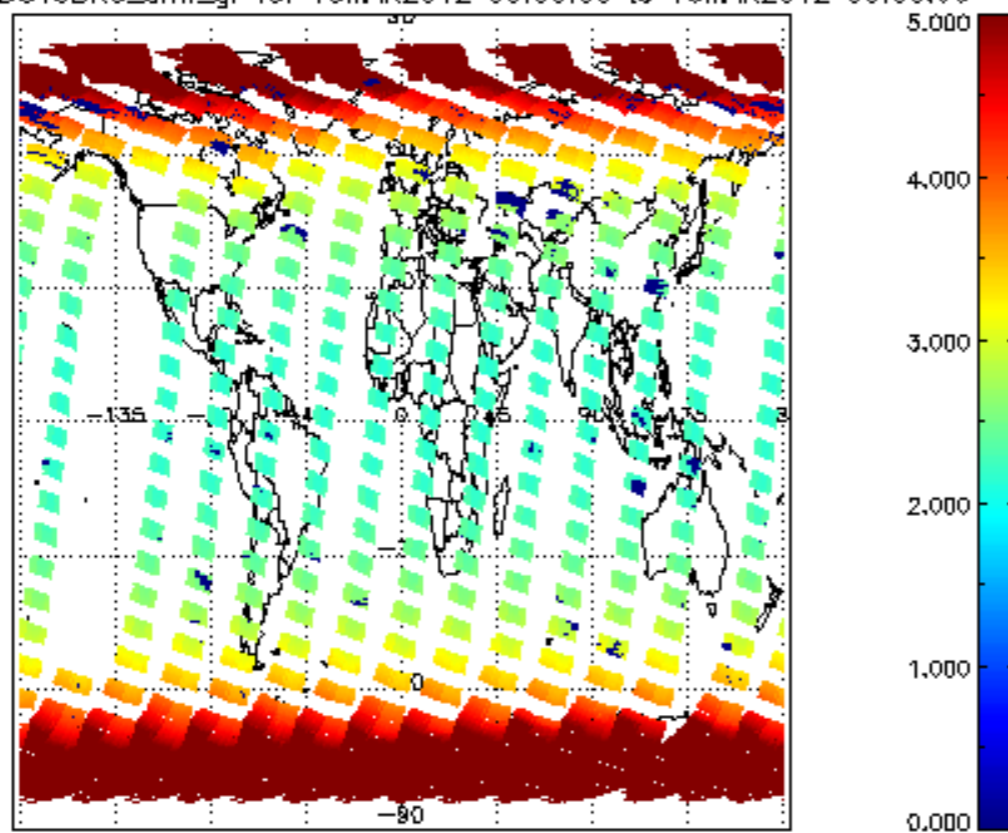
SCIOL2P_NADUV3BRO_vcd for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



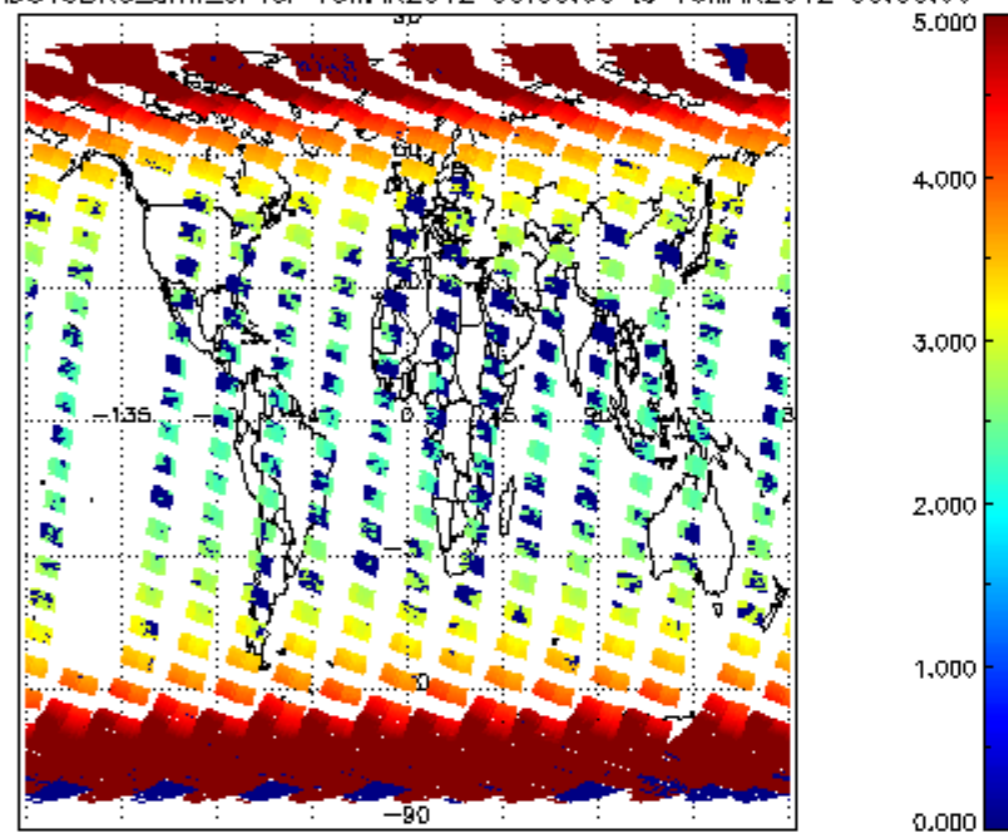
SCIOL2P_NADUV3BRO_vcd_err for 15MAR2012 00:00:00 to 16MAR2012 00:00:00

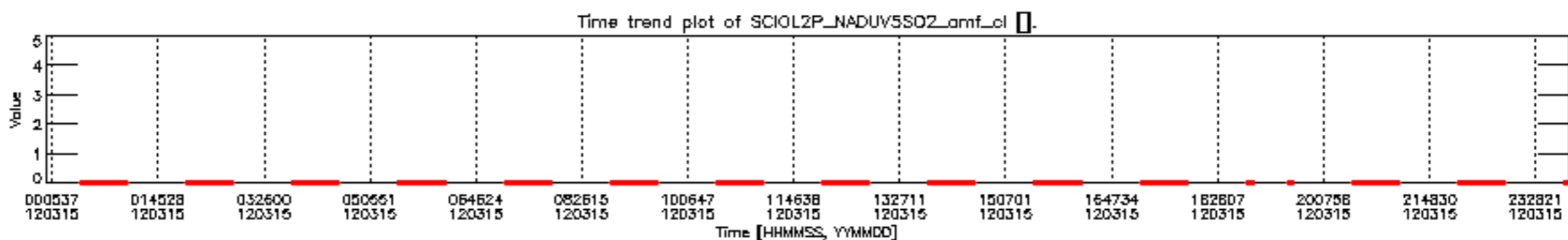
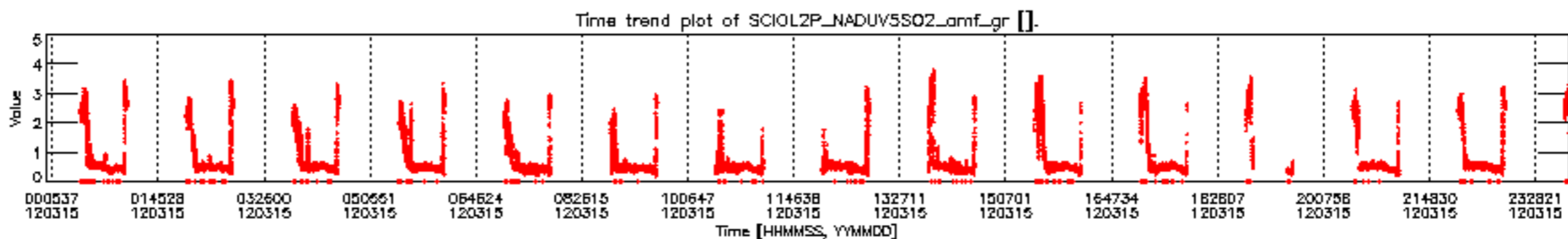
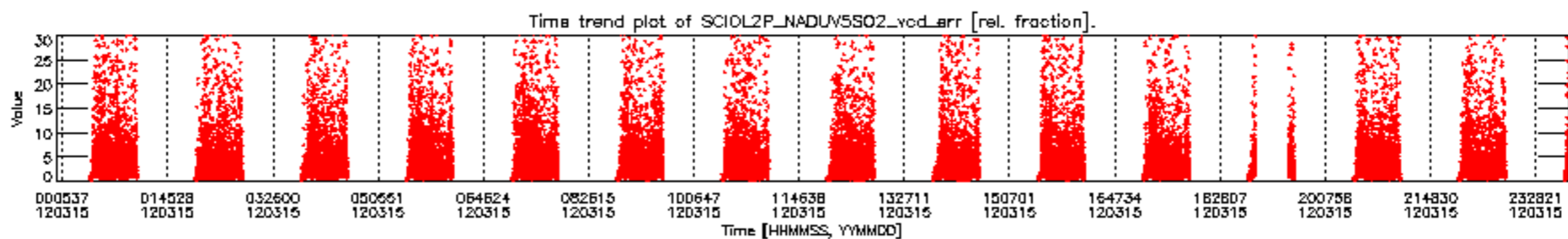
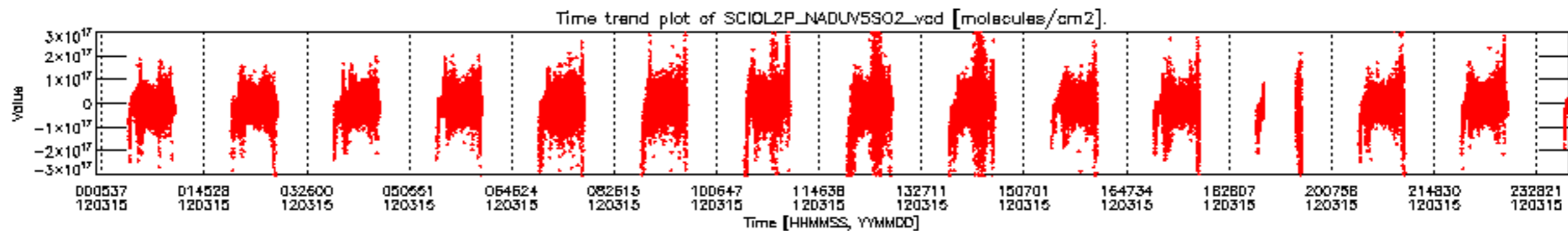


SCIOL2P_NADUV3BRO_amf_gr for 15MAR2012 00:00:00 to 16MAR2012 00:00:00

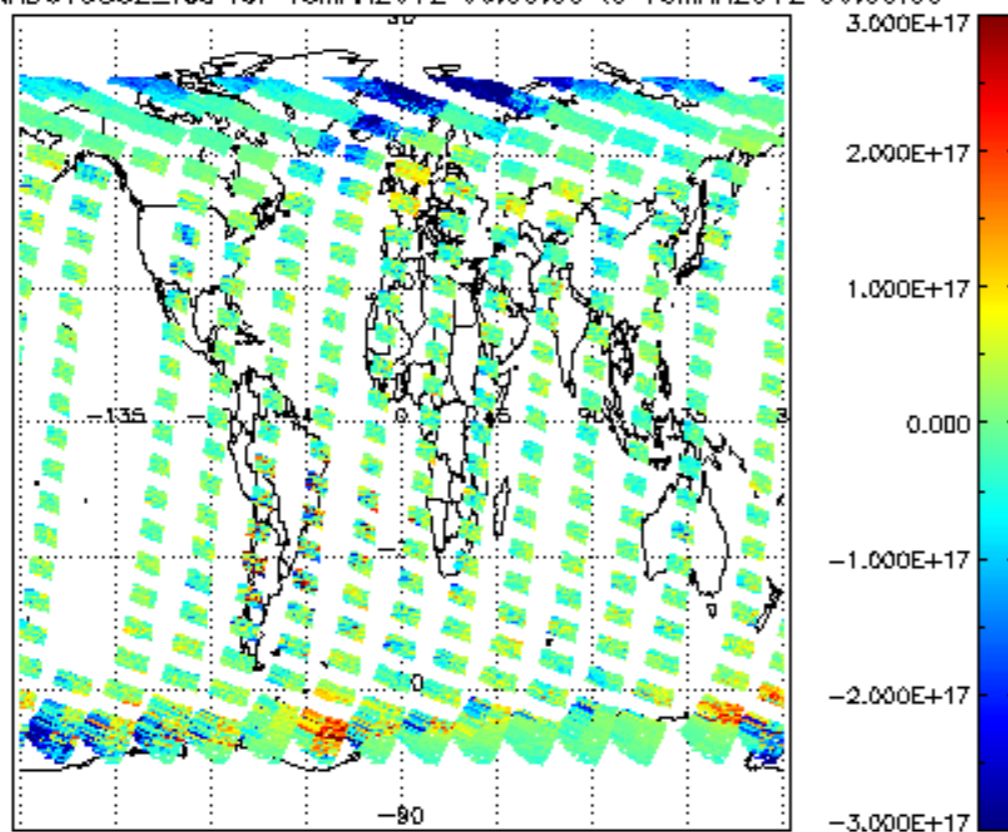


SCIOL2P_NADUV3BRO_amf_cl for 15MAR2012 00:00:00 to 16MAR2012 00:00:00

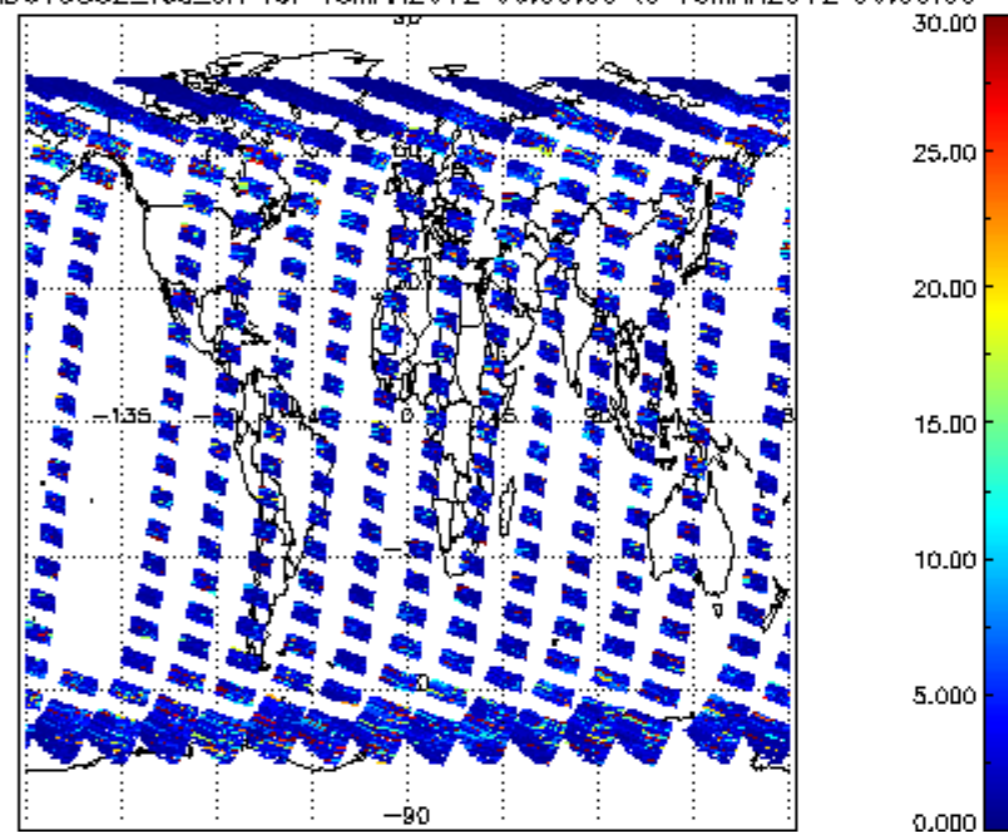




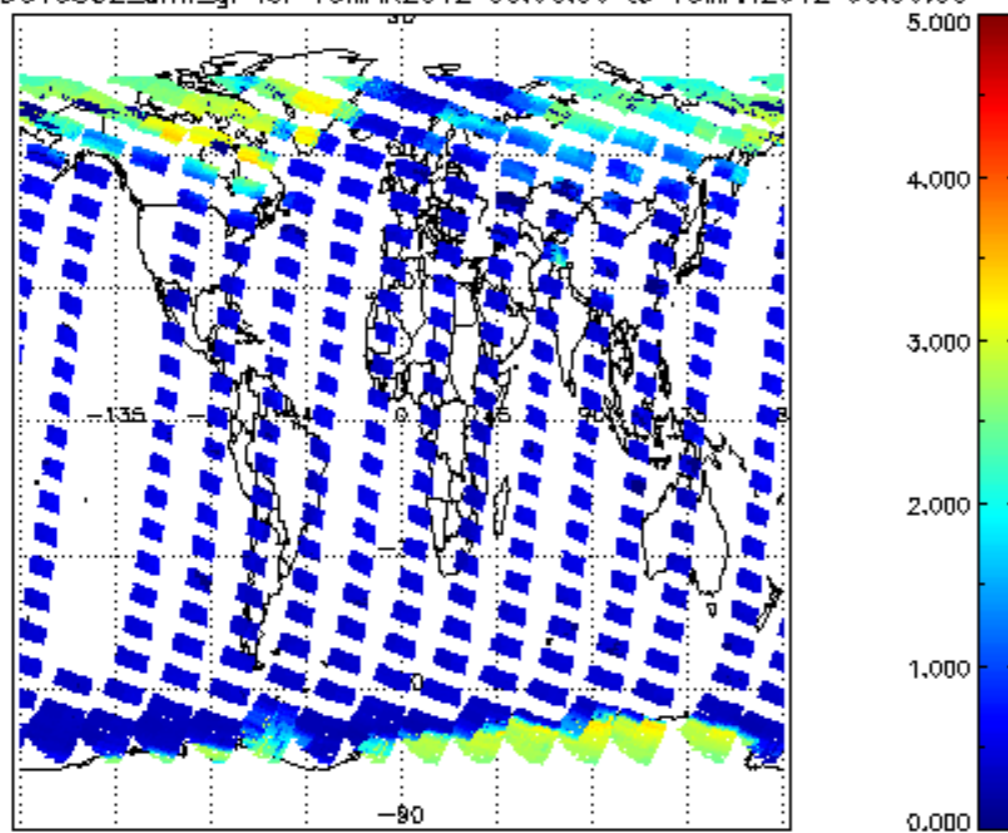
SCIOL2P_NADUV5S02_vcd for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



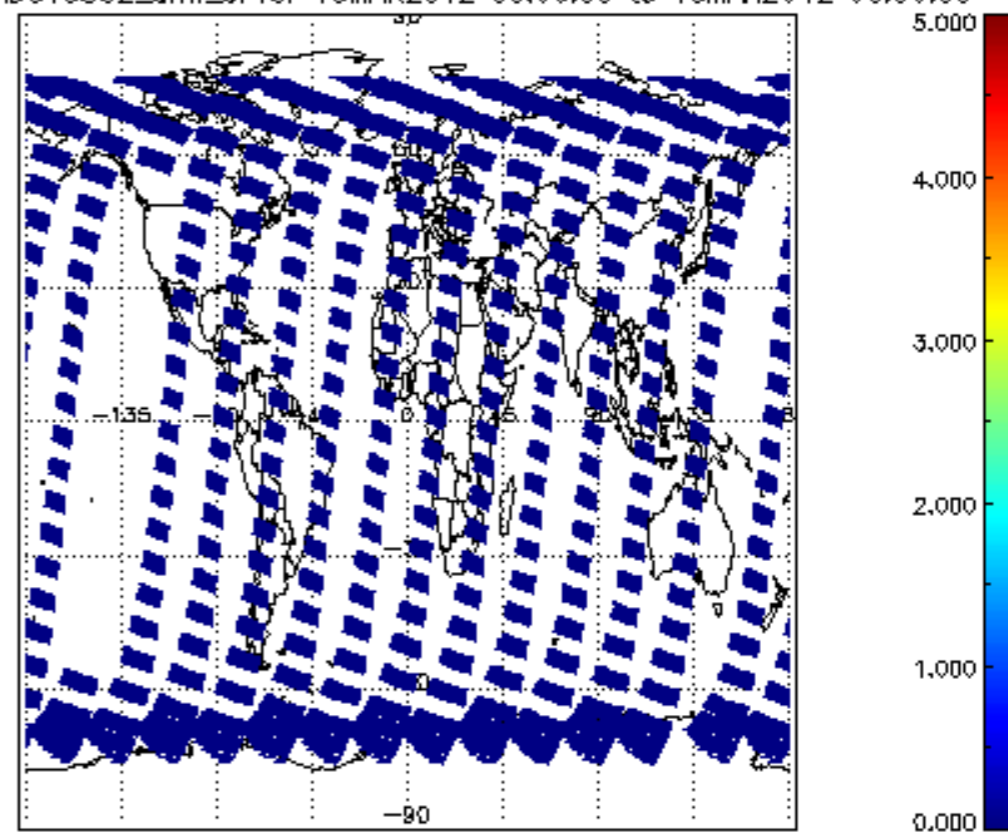
SCIOL2P_NADUV5S02_vcd_err for 15MAR2012 00:00:00 to 16MAR2012 00:00:00

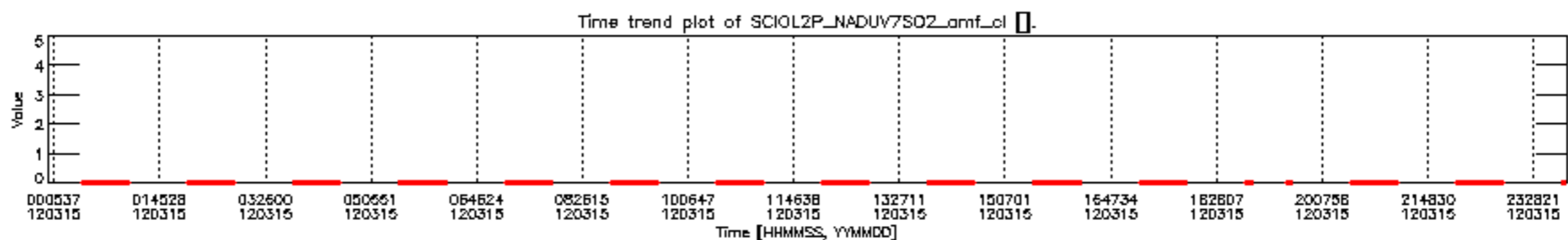
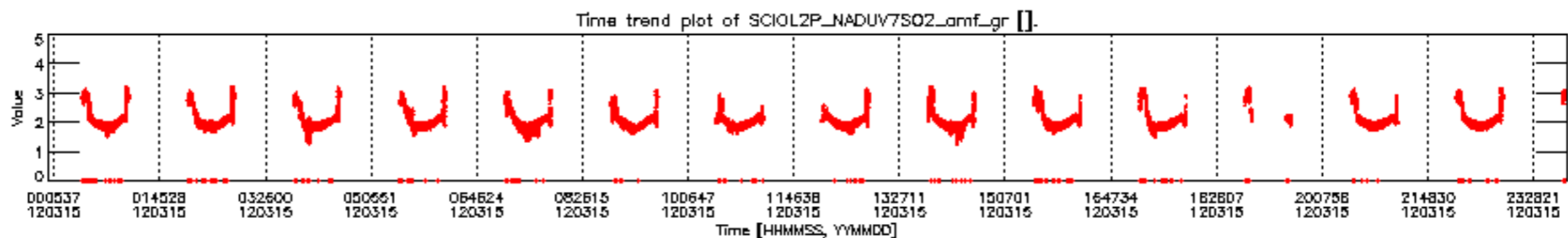
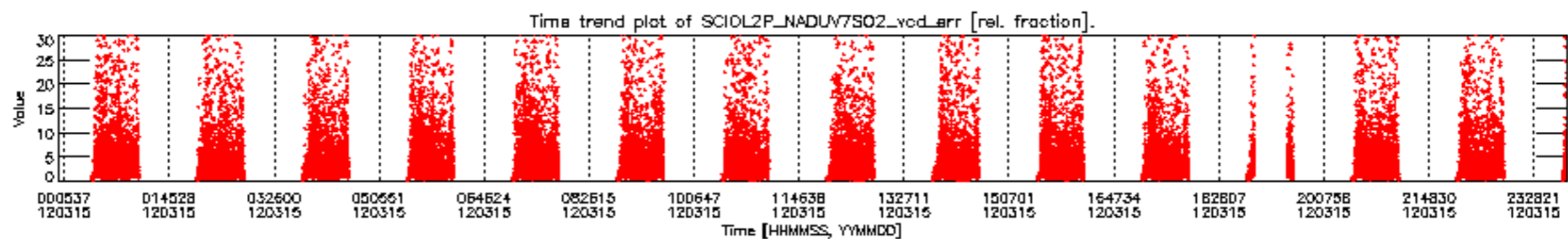
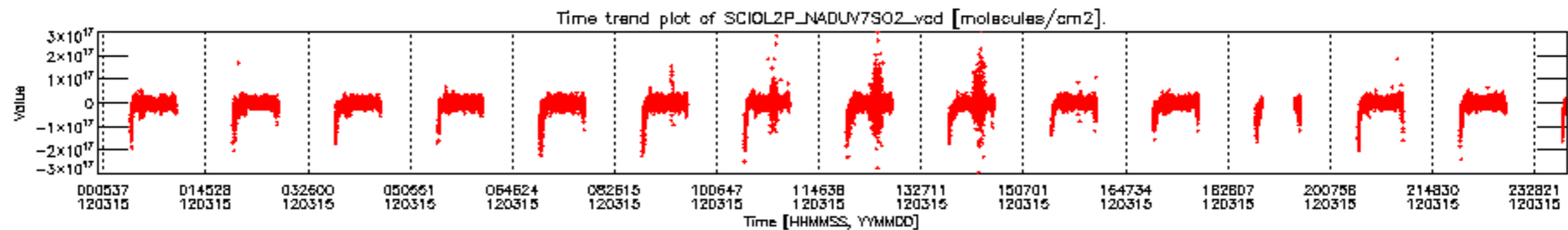


SCIOL2P_NADUV5S02_amf_gr for 15MAR2012 00:00:00 to 16MAR2012 00:00:00

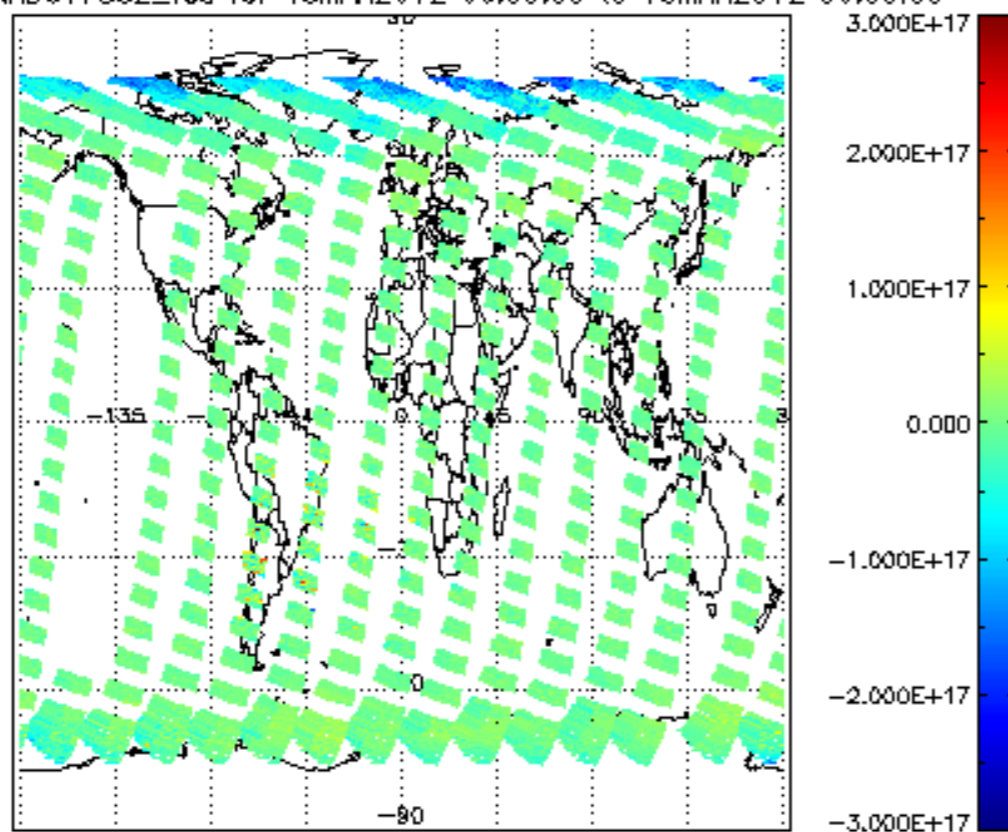


SCIOL2P_NADUV5S02_amf_cl for 15MAR2012 00:00:00 to 16MAR2012 00:00:00

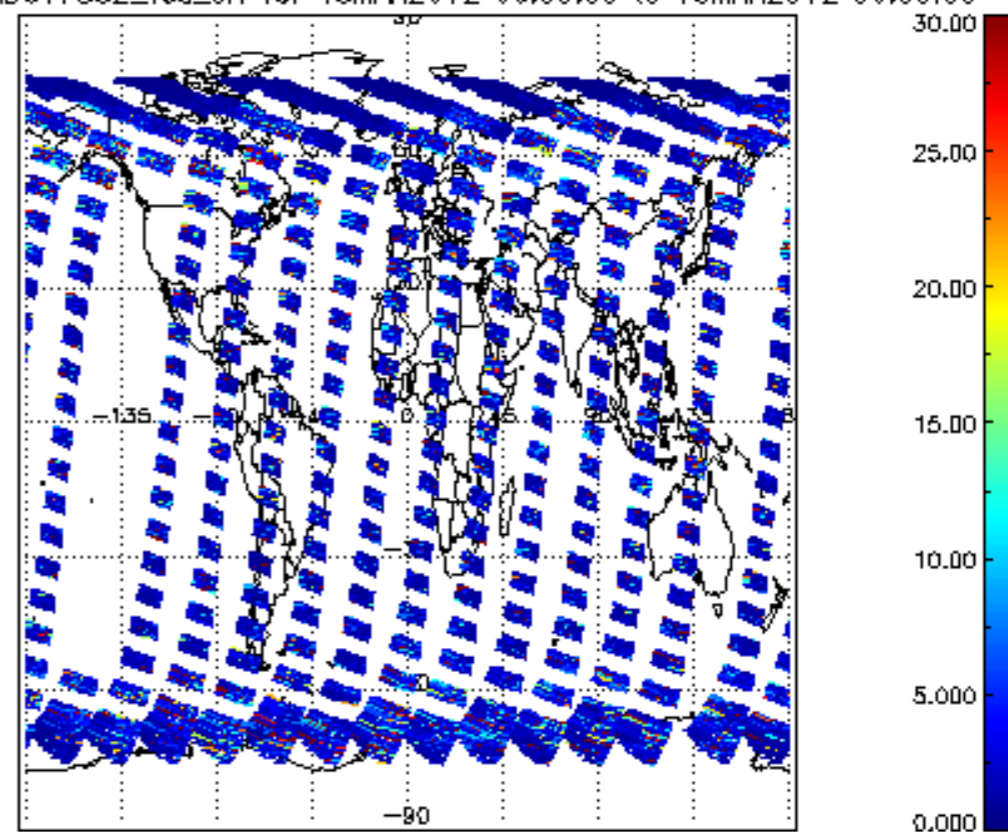




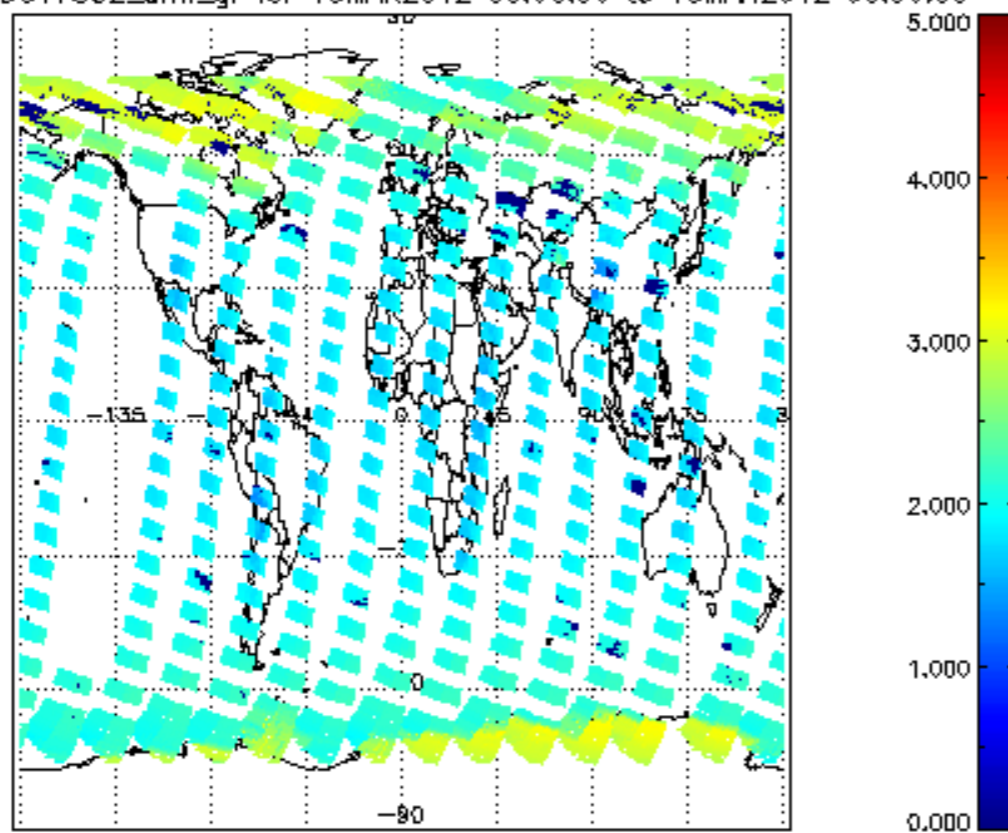
SCIOL2P_NADUV7S02_vcd for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



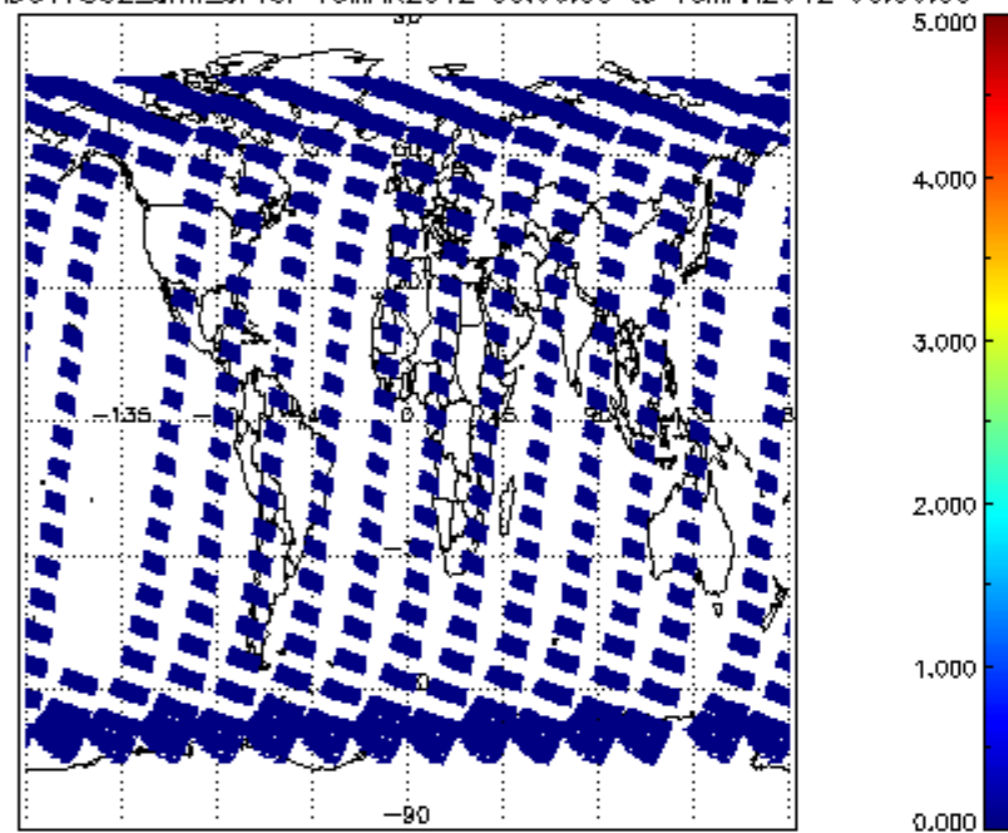
SCIOL2P_NADUV7S02_vcd_err for 15MAR2012 00:00:00 to 16MAR2012 00:00:00

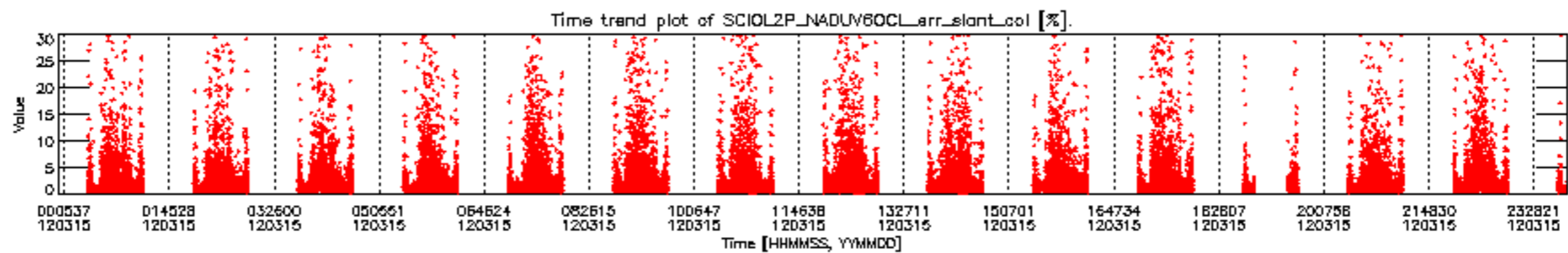
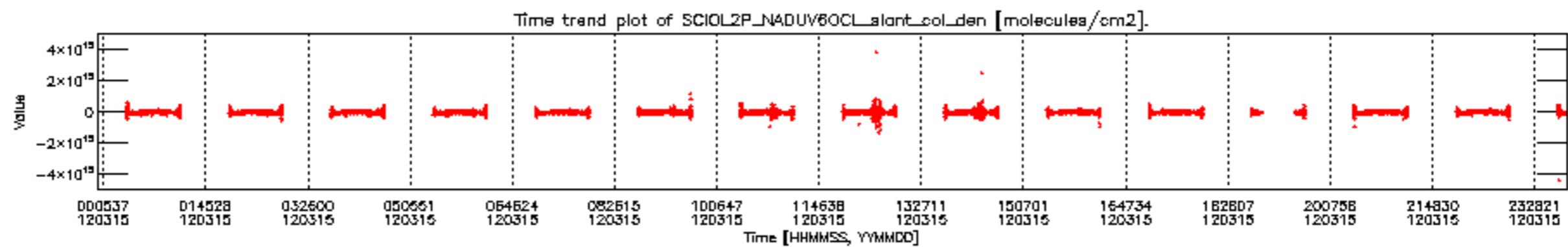


SCIOL2P_NADUV7S02_amf_gr for 15MAR2012 00:00:00 to 16MAR2012 00:00:00

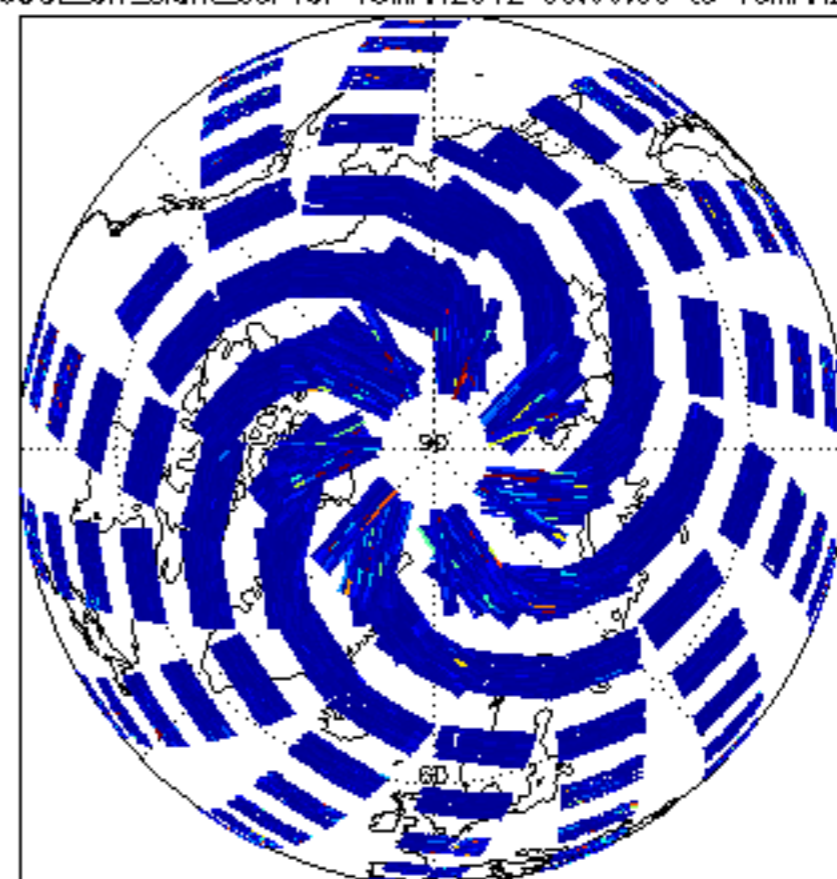
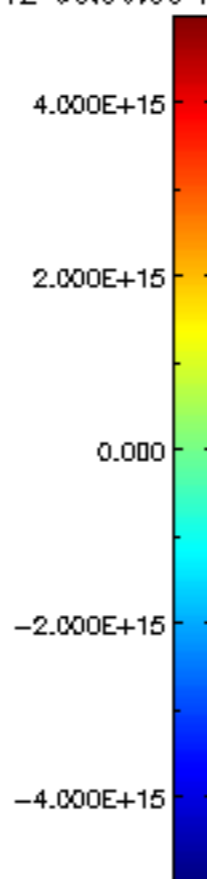
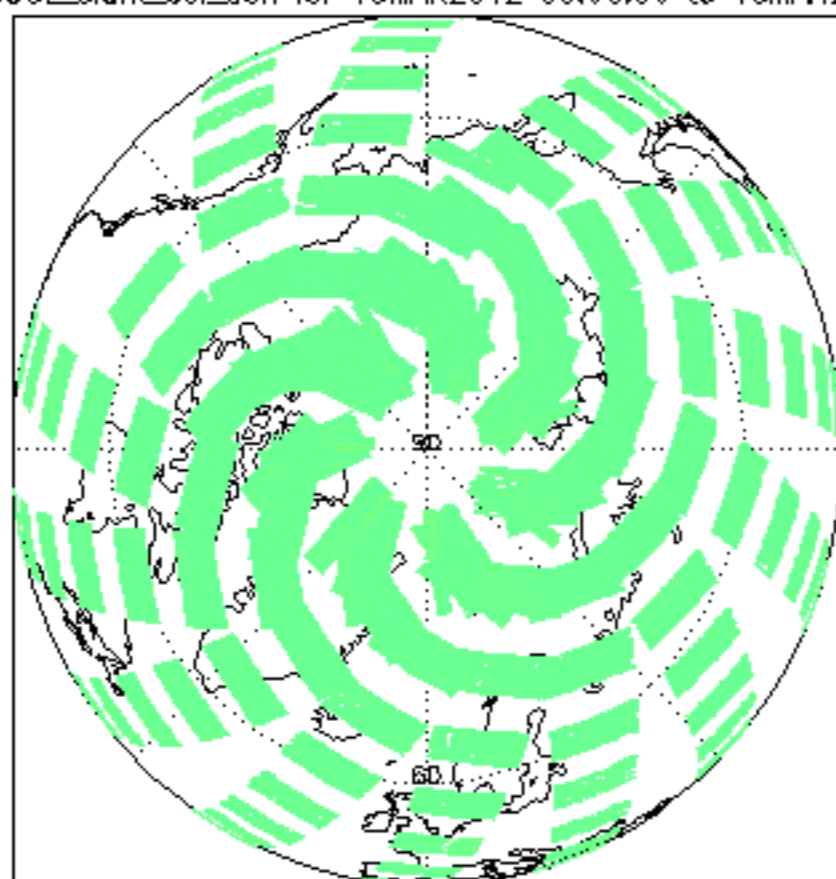


SCIOL2P_NADUV7S02_amf_cl for 15MAR2012 00:00:00 to 16MAR2012 00:00:00

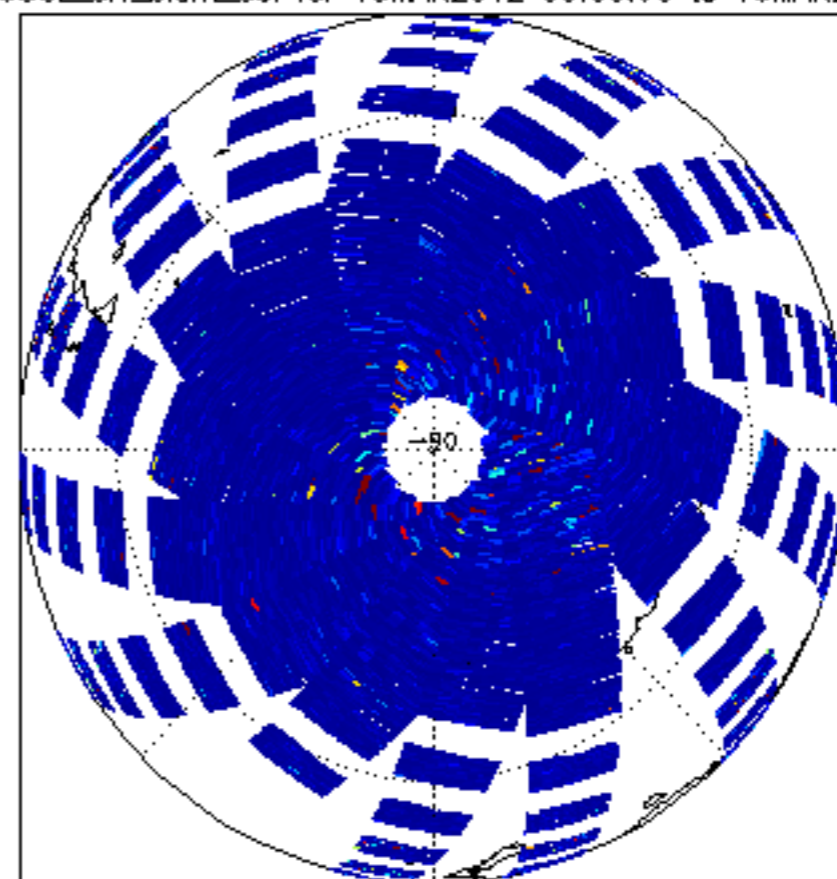
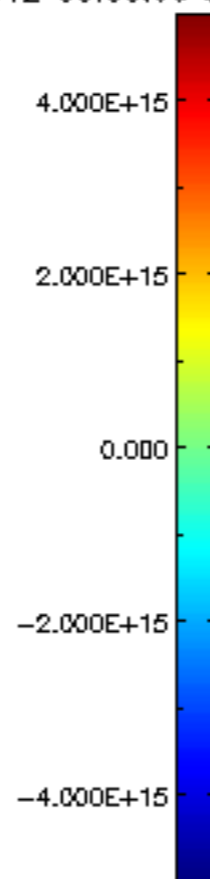
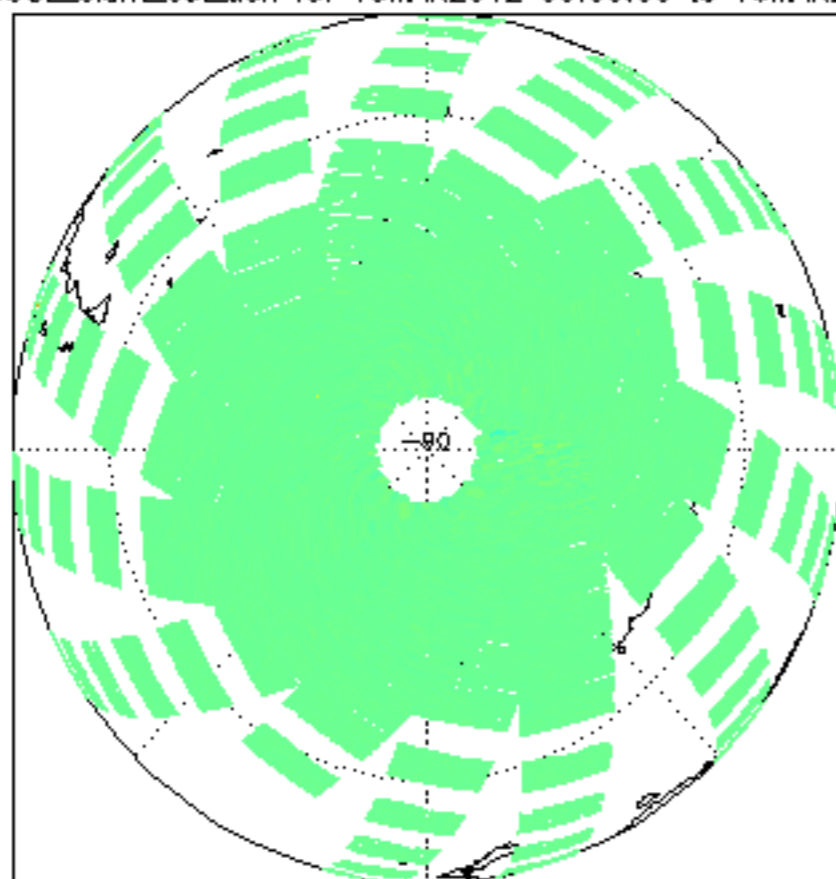




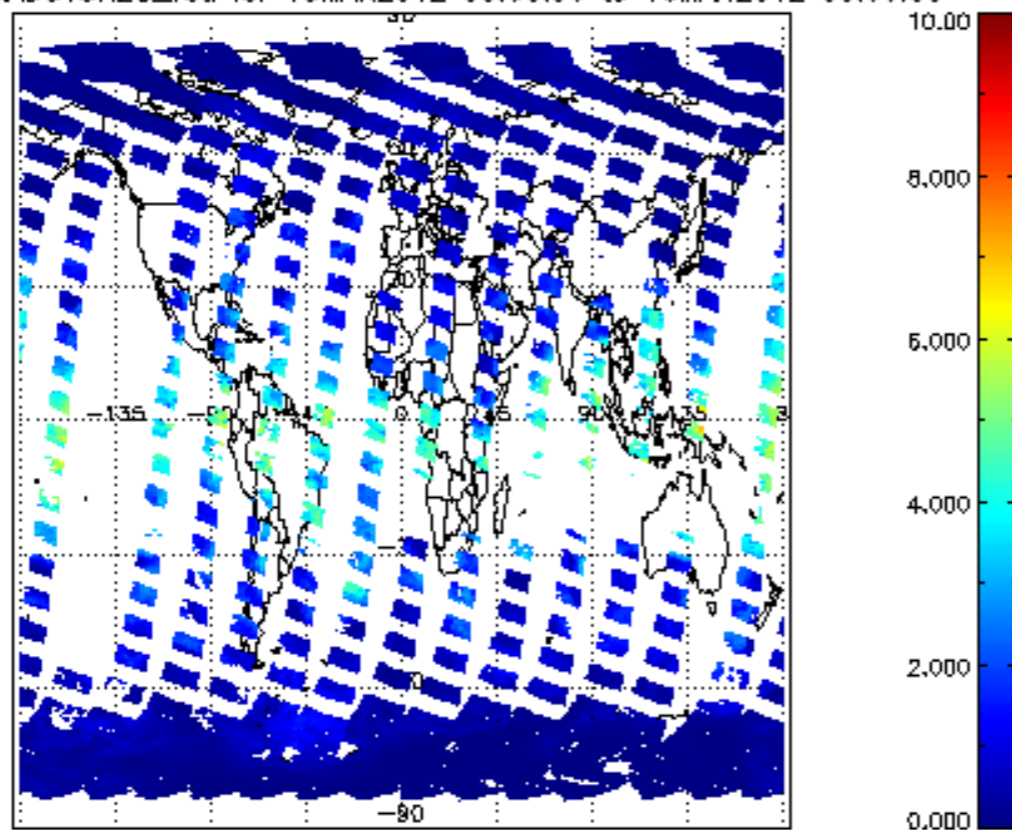
CIOL2P_NADUV6OCL_slant_col_den for 15MAR2012 00:00:00 to 16MAR2012 00:00:00 np; CIOL2P_NADUV6OCL_err_slant_col for 15MAR2012 00:00:00 to 16MAR2012 00:00:00 np



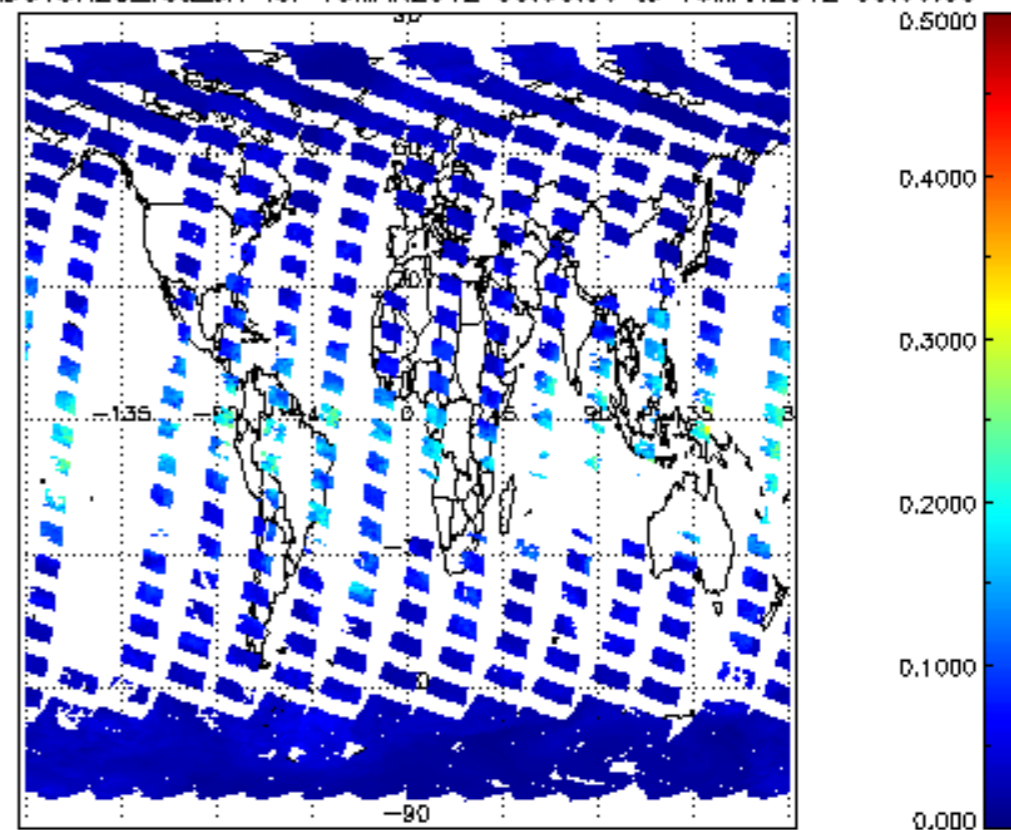
CIOL2P_NADUV6OCL_slant_coLden for 15MAR2012 00:00:00 to 16MAR2012 00:00:00 sp; CIOL2P_NADUV6OCL_err_slant_col for 15MAR2012 00:00:00 to 16MAR2012 00:00:00 sp



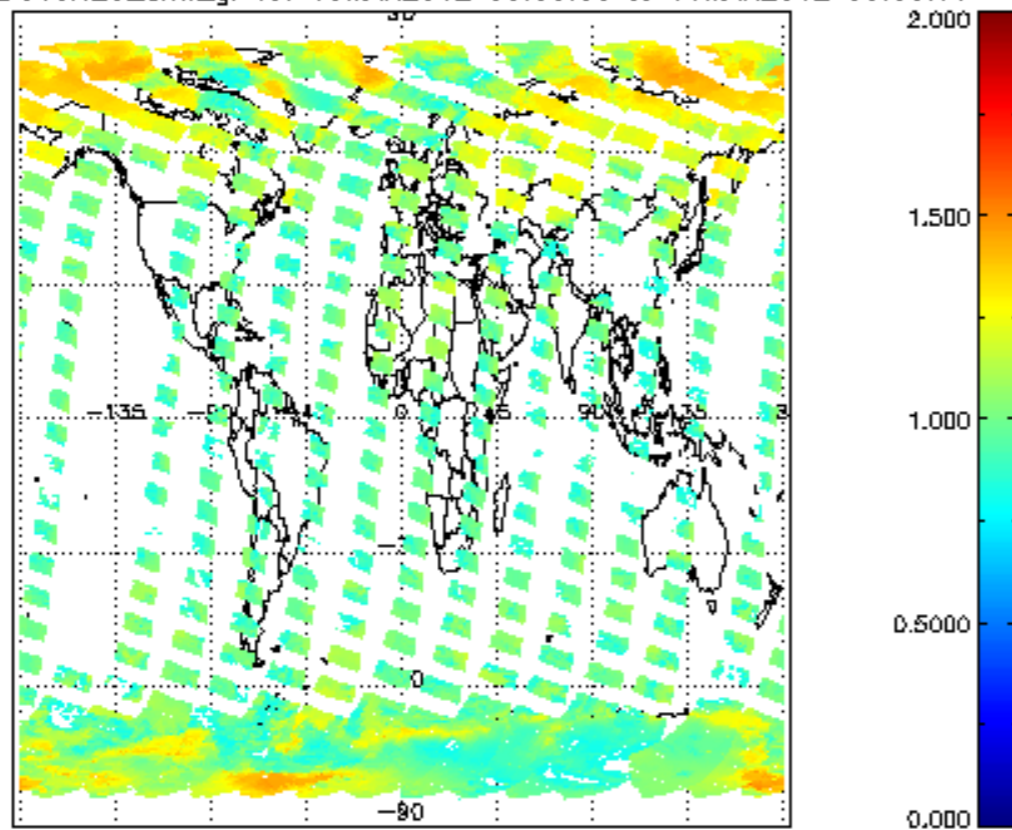
SCIOL2P_NADUV8H20_vcd for 15MAR2012 00:00:00 to 16MAR2012 00:00:00

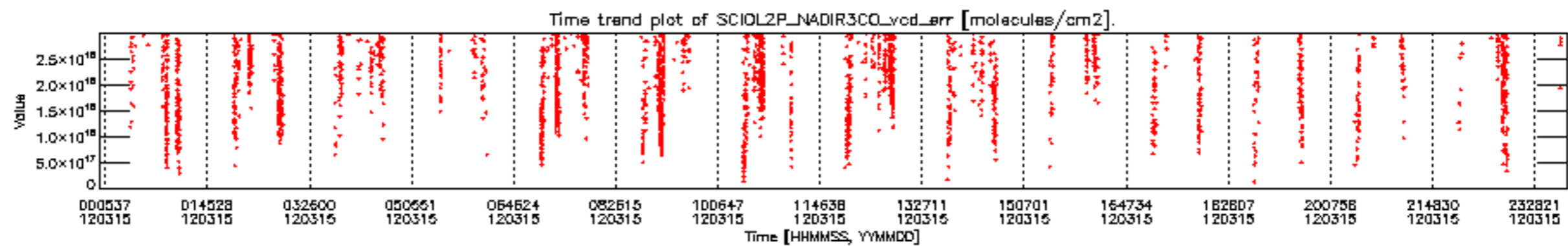
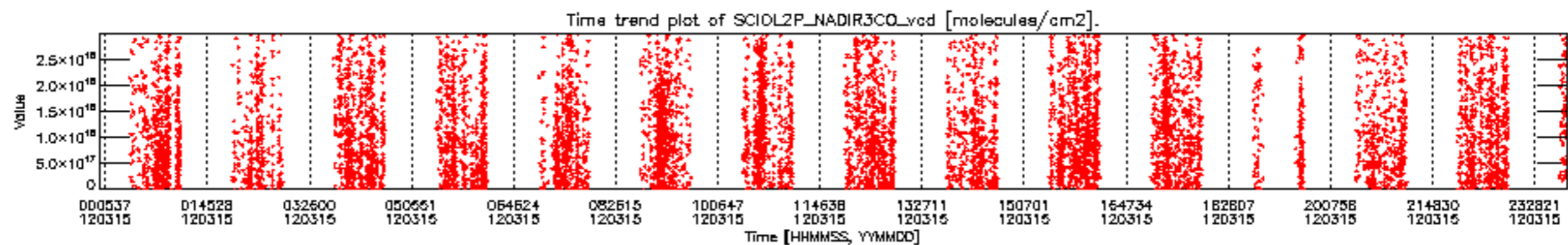


SCIOL2P_NADUV8H20_vcd_Lerr for 15MAR2012 00:00:00 to 16MAR2012 00:00:00

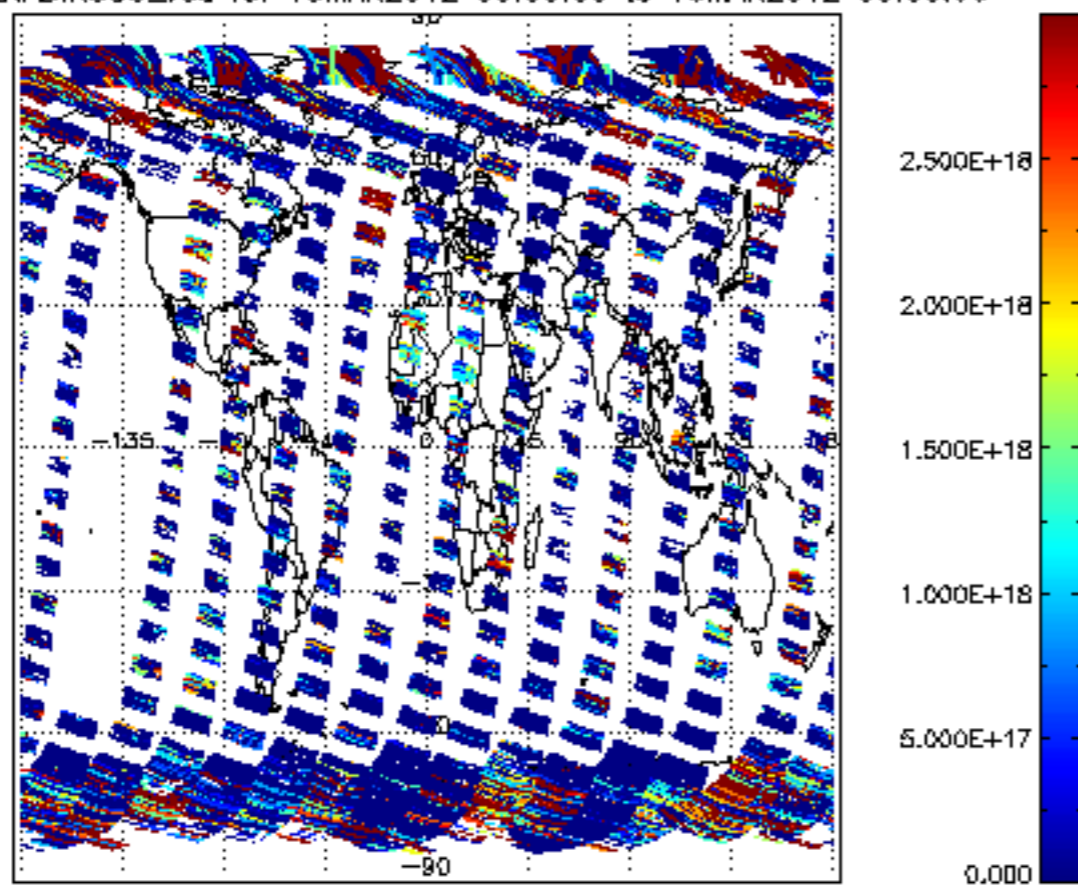


SCIOL2P_NADUV8H20_arnf_gr for 15MAR2012 00:00:00 to 16MAR2012 00:00:00





SCIOL2P_NADIR3CO_vcd for 15MAR2012 00:00:00 to 16MAR2012 00:00:00



SCIOL2P_NADIR3CO_vcd_err for 15MAR2012 00:00:00 to 16MAR2012 00:00:00

