

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	01JUL2011 03:08:21
Data source version	SCIA-OL/5.01-U
Processing scope for products	18JUN2011 00:00:00 to 19JUN2011 00:00:00
Start time of first product within scope	17JUN2011 23:09:43
Stop time of last product within scope	18JUN2011 23:31:23
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__2PUDPA20110617_230943_000035303103_00332_48622_5115.N1	17JUN2011 23:09:43	18JUN2011 00:08:33	0	GOOD
1	SCI_OL__2PUDPA20110618_005340_000032693103_00333_48623_5145.N1	18JUN2011 00:53:40	18JUN2011 01:48:10	0	GOOD
2	SCI_OL__2PUDPA20110618_023502_000032133103_00334_48624_5103.N1	18JUN2011 02:35:02	18JUN2011 03:28:36	0	GOOD
3	SCI_OL__2PUDPA20110618_041408_000032693103_00335_48625_5104.N1	18JUN2011 04:14:08	18JUN2011 05:08:37	0	GOOD
4	SCI_OL__2PUDPA20110618_055530_000032133103_00336_48626_5139.N1	18JUN2011 05:55:30	18JUN2011 06:49:04	0	GOOD

5	SCI_OL__2PUDPA20110618_073436_000032693103_00337_48627_5113.N1	18JUN2011 07:34:36	18JUN2011 08:29:05	0	GOOD
6	SCI_OL__2PUDPA20110618_091558_000032133103_00338_48628_5141.N1	18JUN2011 09:15:58	18JUN2011 10:09:32	0	GOOD
7	SCI_OL__2PUDPA20110618_105503_000032693103_00339_48629_5142.N1	18JUN2011 10:55:03	18JUN2011 11:49:33	0	GOOD
8	SCI_OL__2PUDPA20110618_123626_000032133103_00340_48630_5143.N1	18JUN2011 12:36:26	18JUN2011 13:30:00	0	GOOD
9	SCI_OL__2PUDPA20110618_141531_000032693103_00341_48631_5140.N1	18JUN2011 14:15:31	18JUN2011 15:10:01	0	GOOD
10	SCI_OL__2PUDPA20110618_155654_000032133103_00342_48632_5107.N1	18JUN2011 15:56:54	18JUN2011 16:50:27	0	GOOD
11	SCI_OL__2PUDPA20110618_173608_000032693103_00343_48633_5127.N1	18JUN2011 17:36:08	18JUN2011 18:30:38	0	GOOD
12	SCI_OL__2PUDPA20110618_191731_000032133103_00344_48634_5134.N1	18JUN2011 19:17:31	18JUN2011 20:11:04	0	GOOD
13	SCI_OL__2PUDPA20110618_205627_000032693103_00345_48635_5136.N1	18JUN2011 20:56:27	18JUN2011 21:50:57	0	GOOD
14	SCI_OL__2PUDPA20110618_223749_000032133103_00346_48636_5135.N1	18JUN2011 22:37:49	18JUN2011 23:31:23	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: 162250

Total number of cloud data DSRs with good quality flag (=0): 162250 (100.0 %)

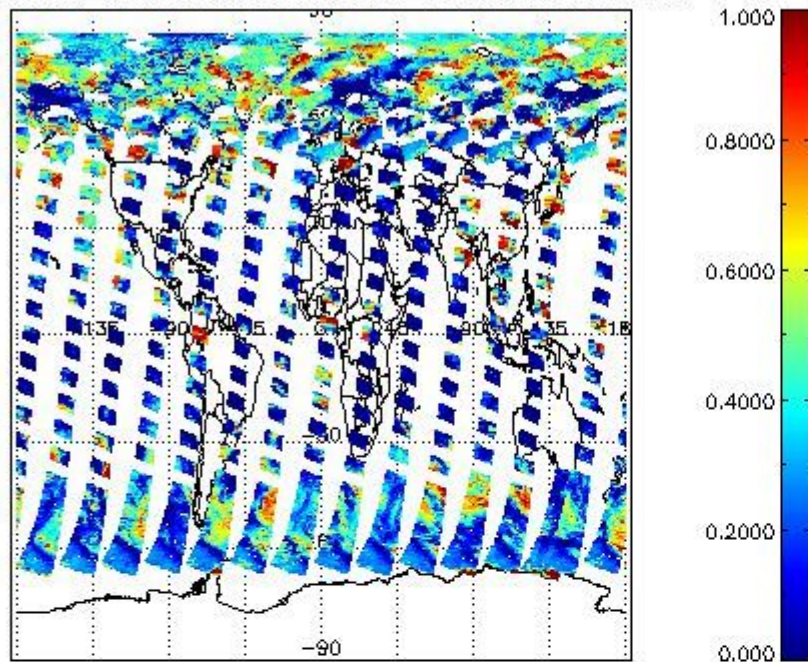
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	162250	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	162250	0.16566	0.12500	0.12500	0.25000	0.058561	s
CL_FRAC	162250	0.31646	0.27296	0.0000	1.0000	0.26721	
CL_FRAC_ERR	162250	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	162250	5.3012	4.0000	4.0000	8.0000	1.8740	
PMD_READ_CL[0]	162250	0.21586	0.0000	0.0000	8.0000	1.0256	-
PMD_READ_CL[1]	162250	1.3968	0.0000	0.0000	8.0000	2.5383	-
CL_TOP_HEIGHT	127638	3.3862	1.2566	0.0000	17.000	3.7363	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	127638	63.035	100.00	0.0000	101.00	43.364	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	162250	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	162250	11001101	11000100	11000000	11100000	3638.0	
AERO_ABSO_IND	162250	0.17669	0.0000	0.0000	15.257	0.44768	
AERO_IND_DIAG	162250	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	162250	01010010	00000000	00000000	11000000	24349.	

Time and geolocation plots:

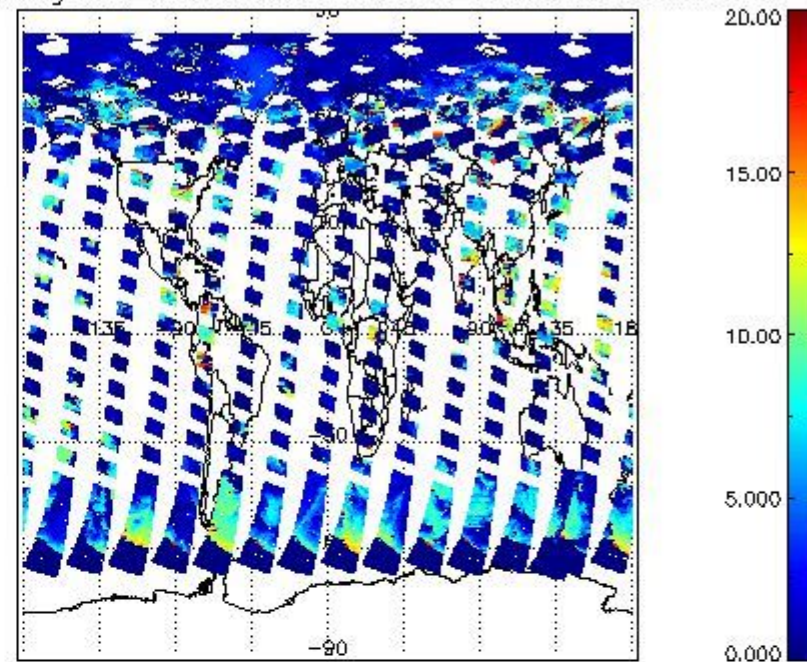
Plots are available for the following parameters:

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

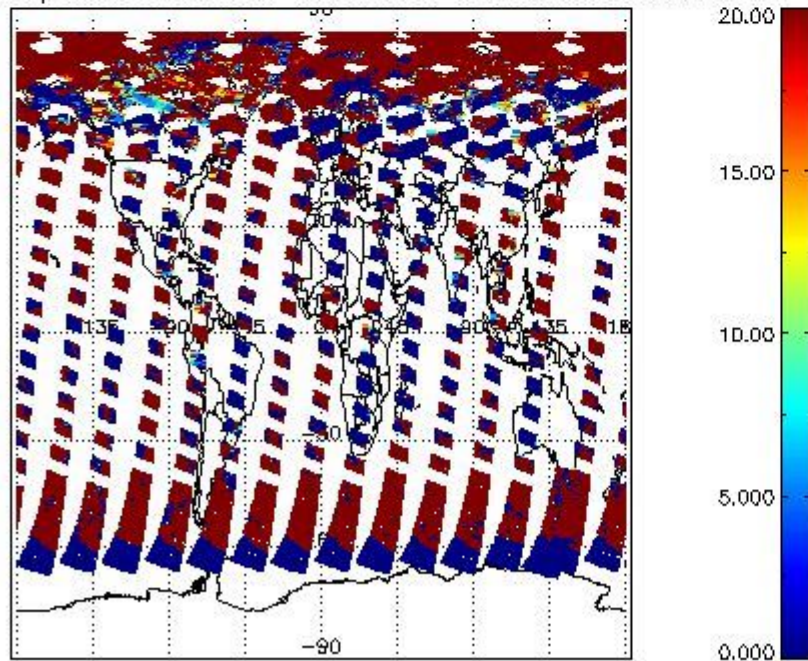
cL_frac for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



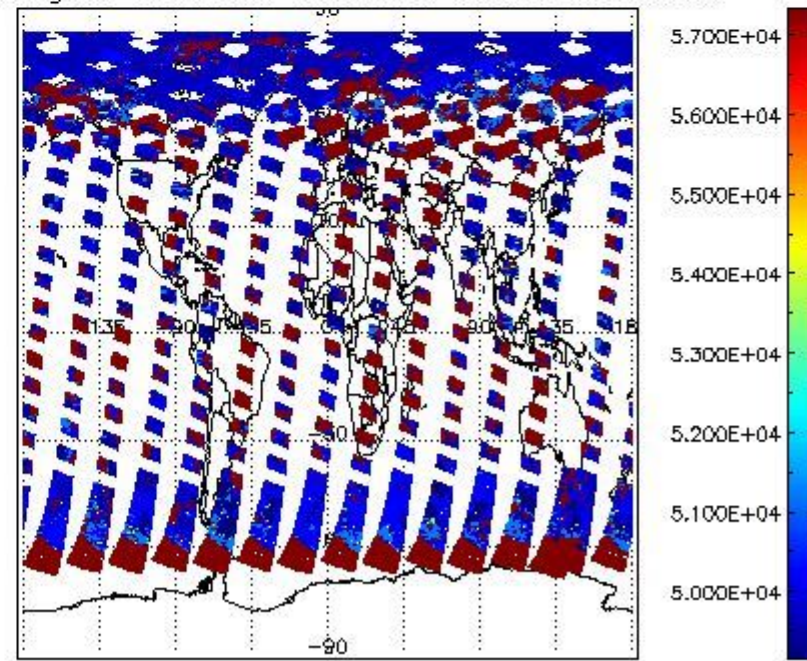
cL_top_height for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



cL_opt_depth for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



cloud_flags for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



2.2.2 Nadir

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

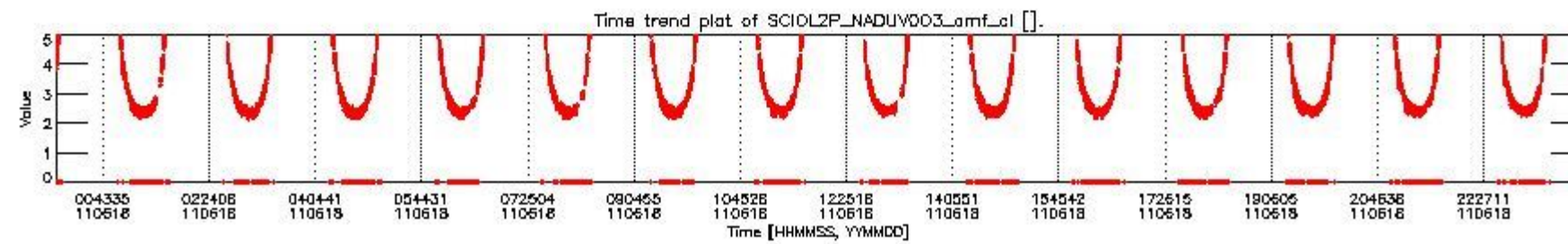
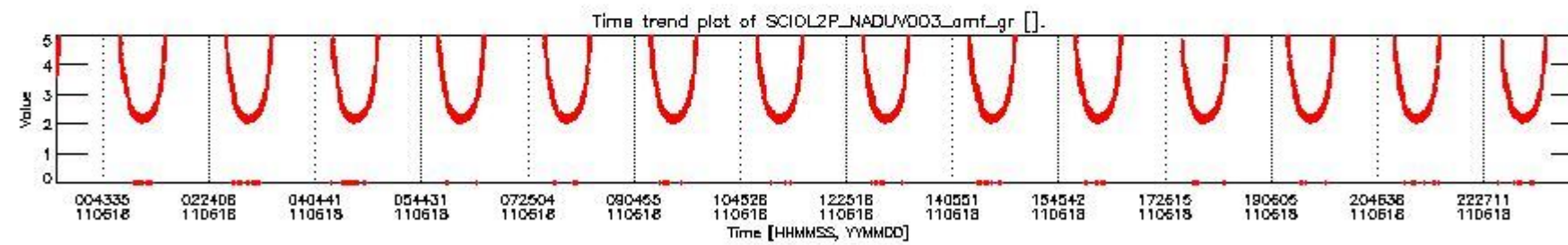
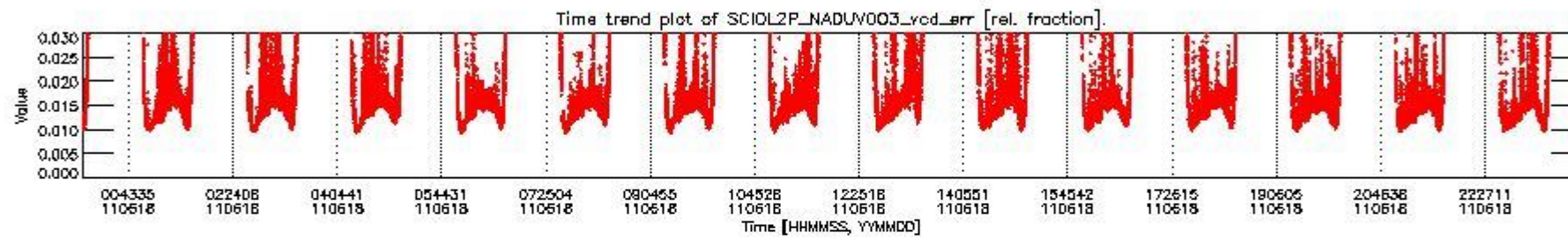
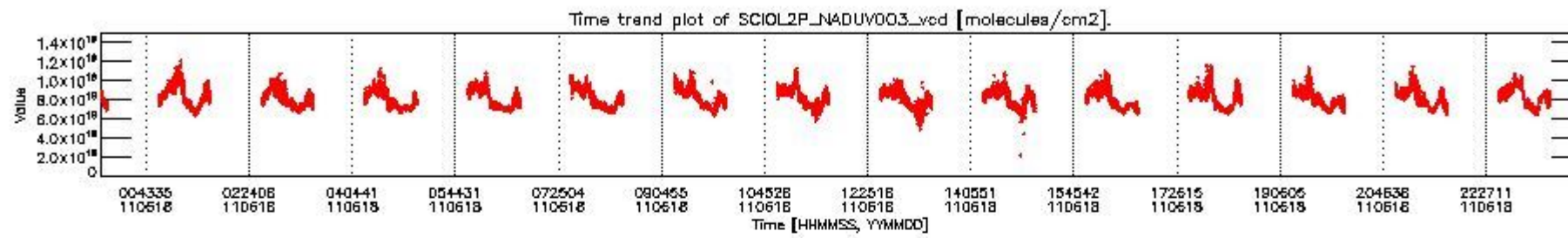
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

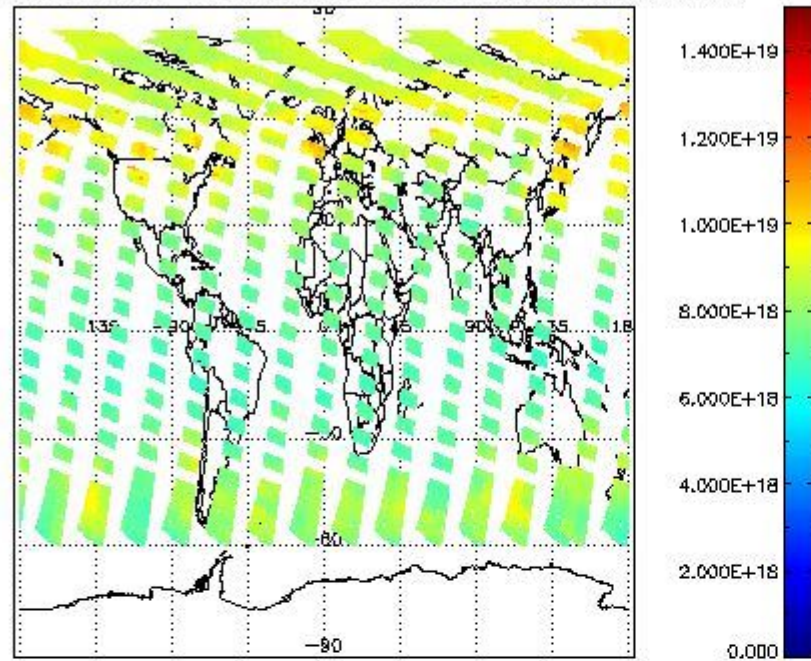
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

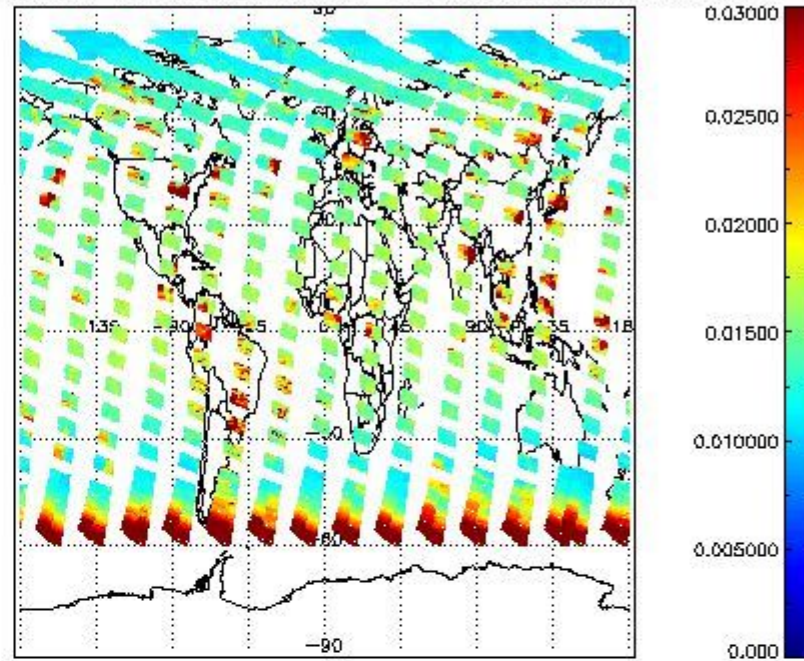
[2.2.2.1 O3 \(UV0\)](#)



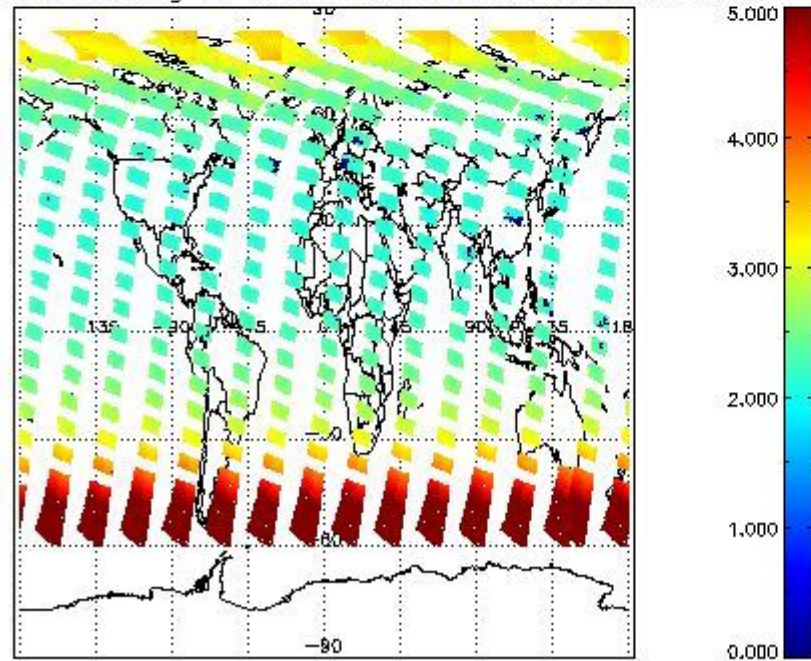
SCIOL2P_NADUV003_vcd for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



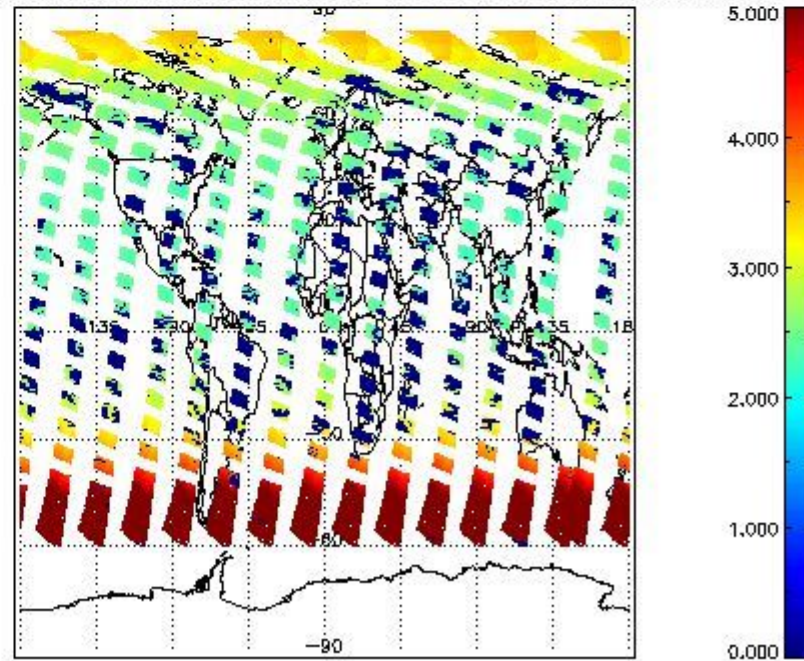
SCIOL2P_NADUV003_vcd_err for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



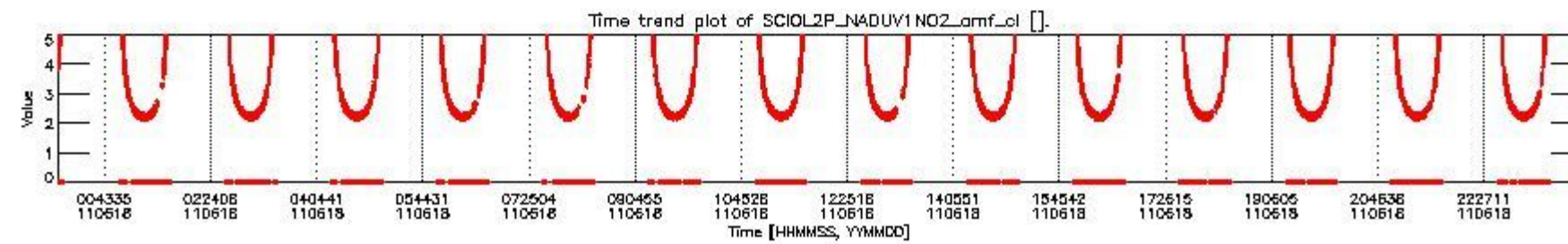
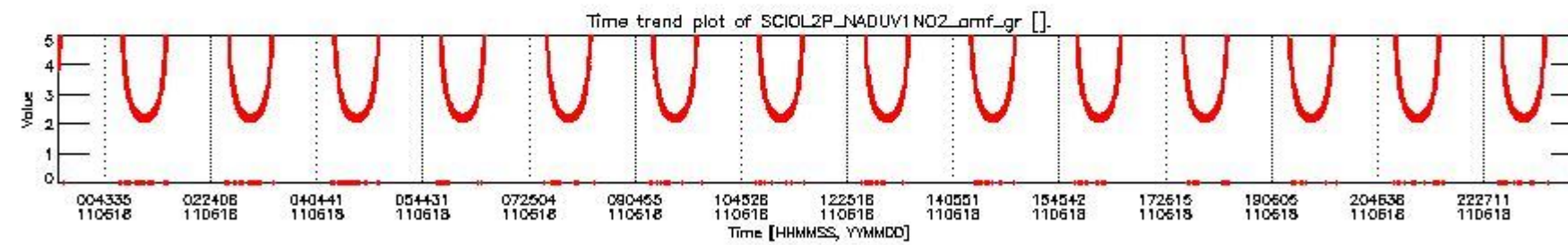
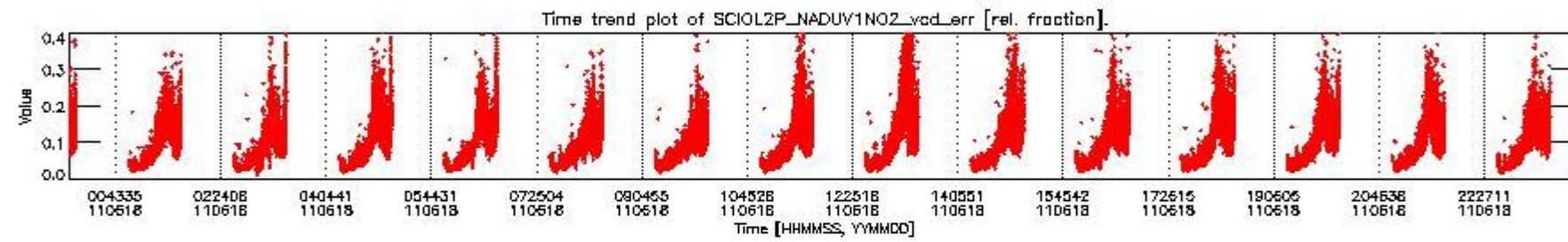
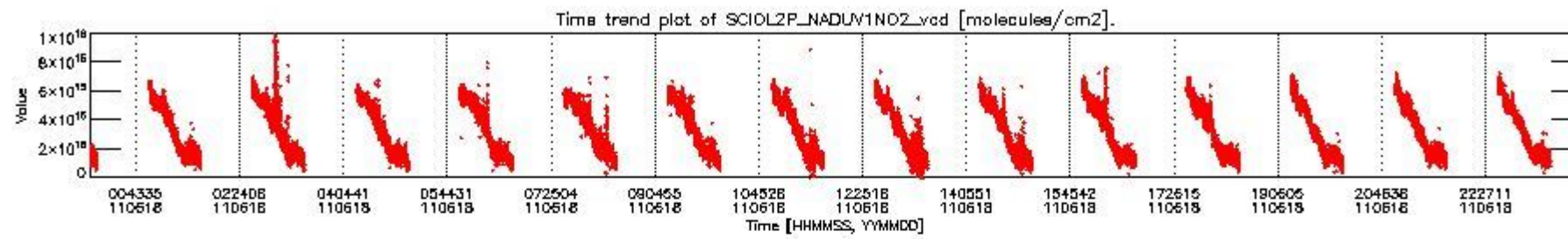
SCIOL2P_NADUV003_amf_gr for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



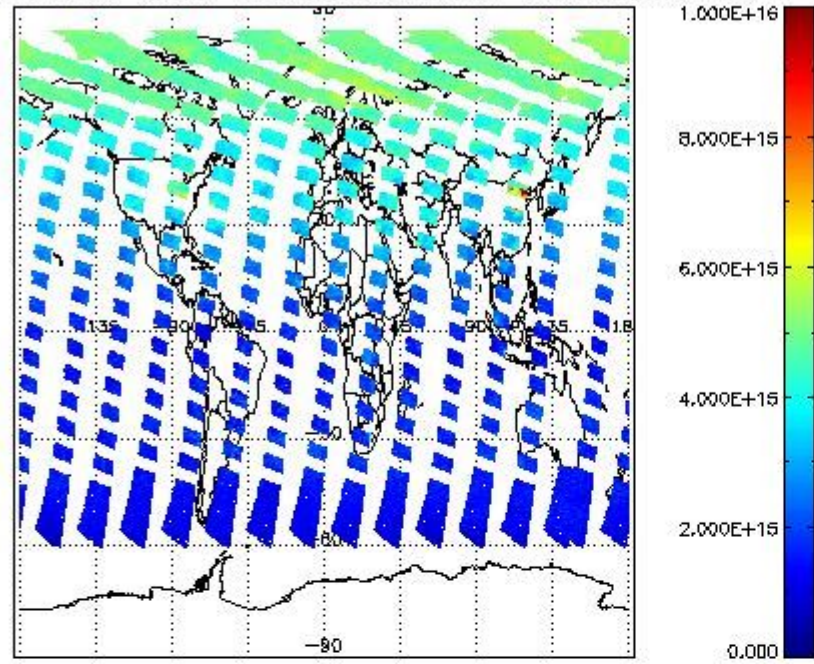
SCIOL2P_NADUV003_amf_cl for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



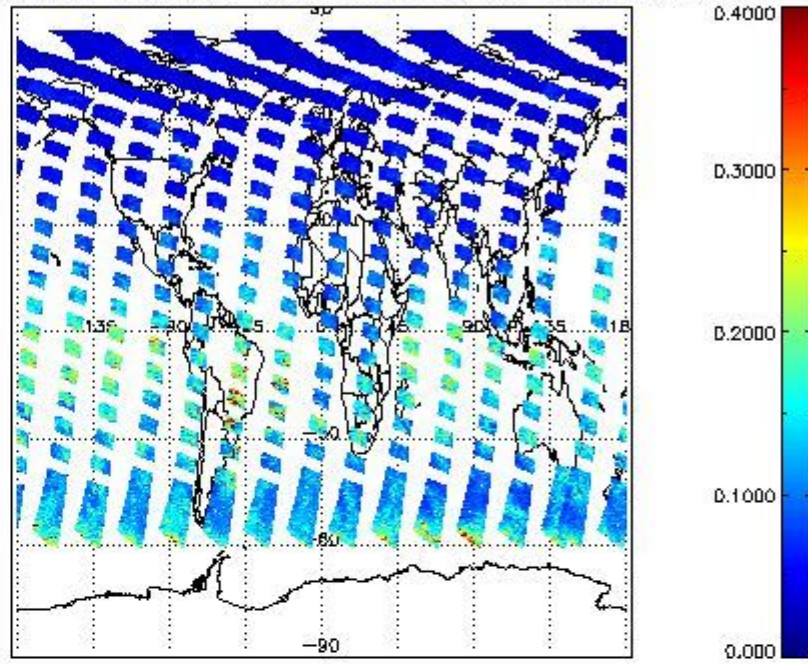
2.2.2.2 NO2 (UV1)



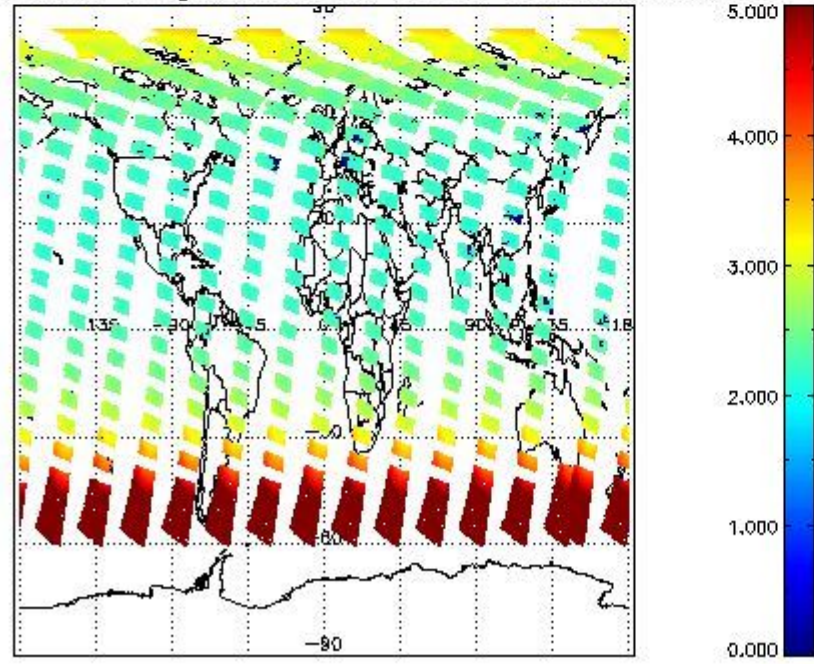
SCIOL2P_NADUV1N02_vcd for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



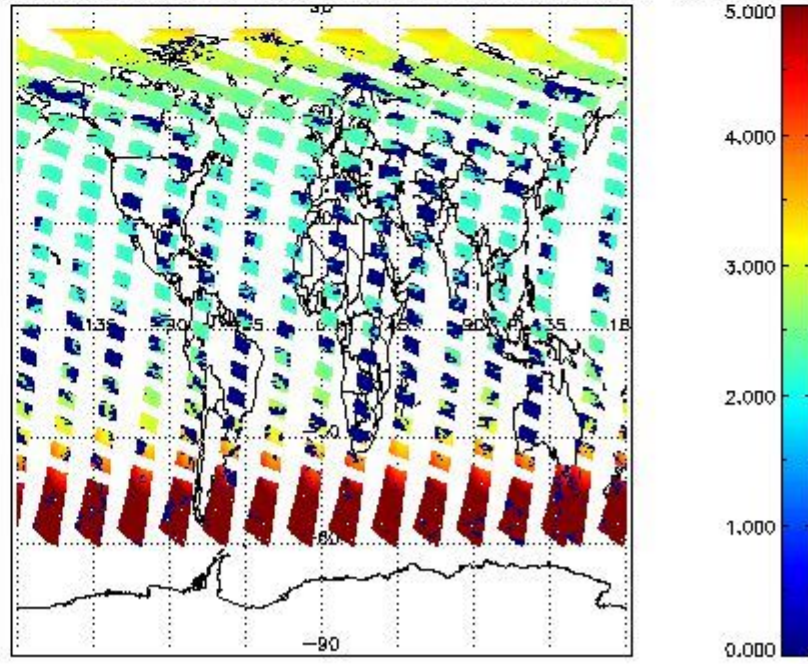
SCIOL2P_NADUV1N02_vcd_err for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



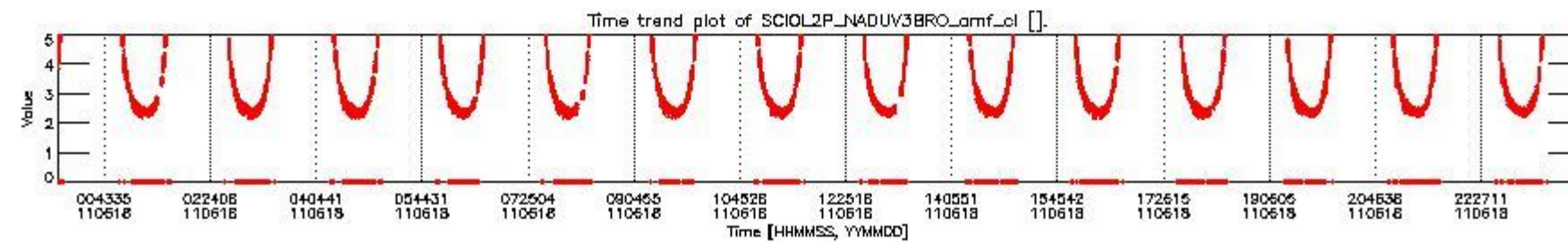
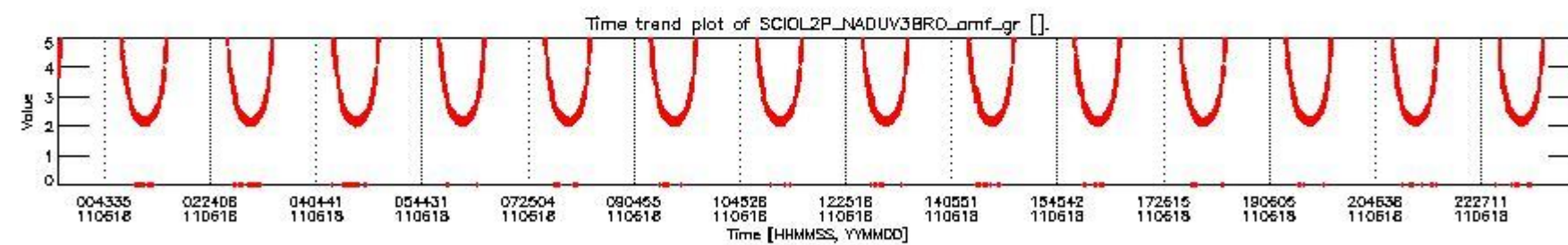
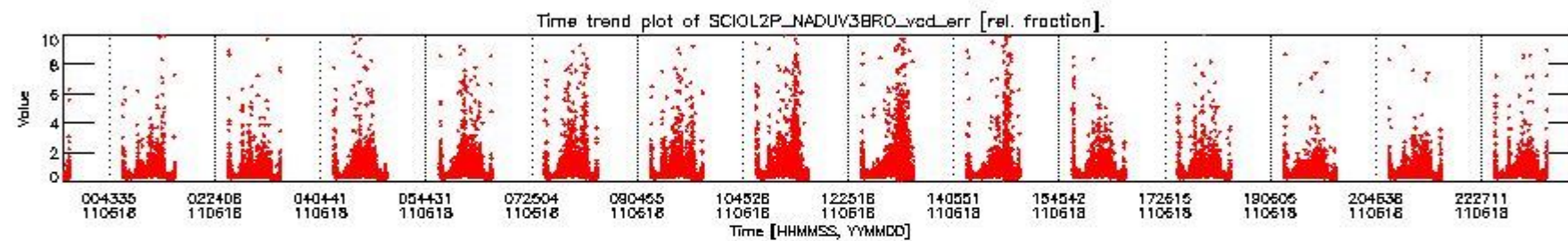
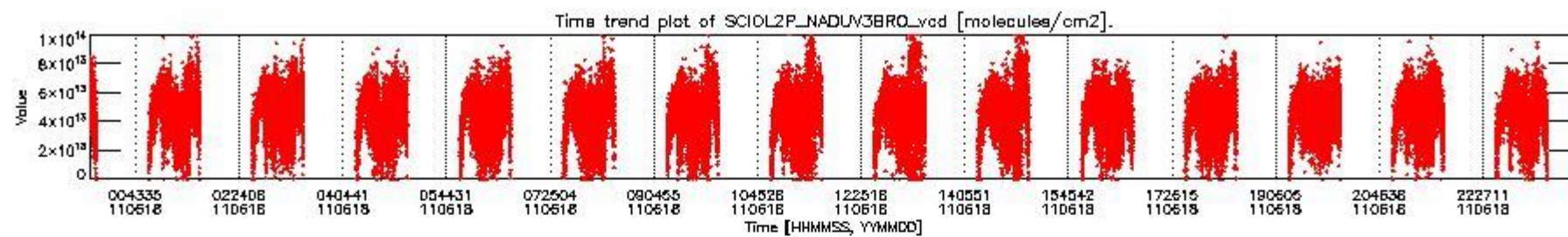
SCIOL2P_NADUV1N02_amf_gr for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



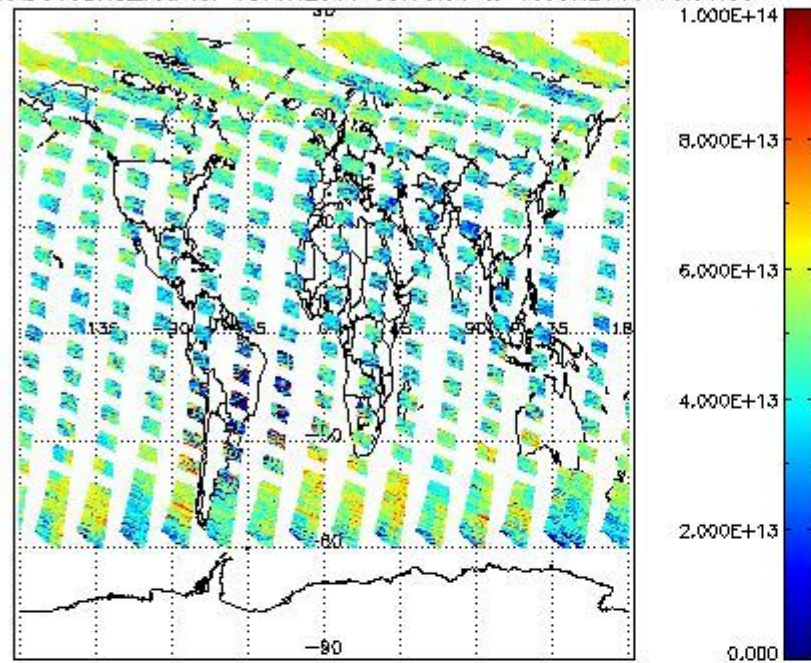
SCIOL2P_NADUV1N02_amf_cl for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



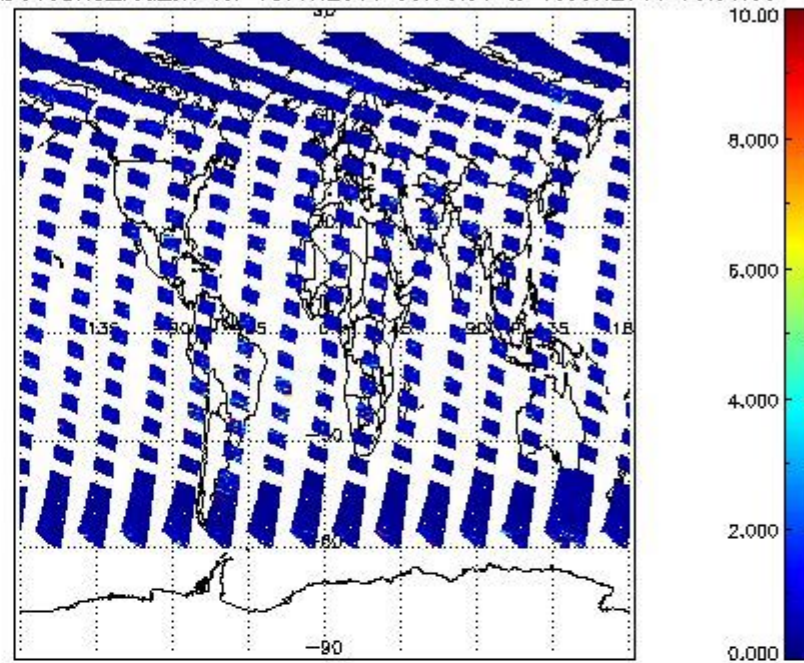
2.2.2.3 BrO (UV3)



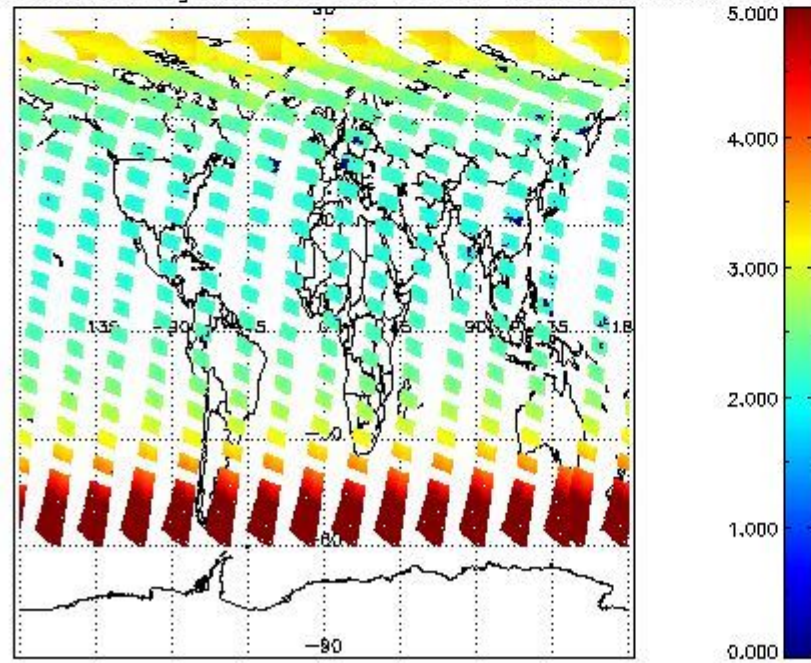
SCIOL2P_NADUV3BRO_vcd for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



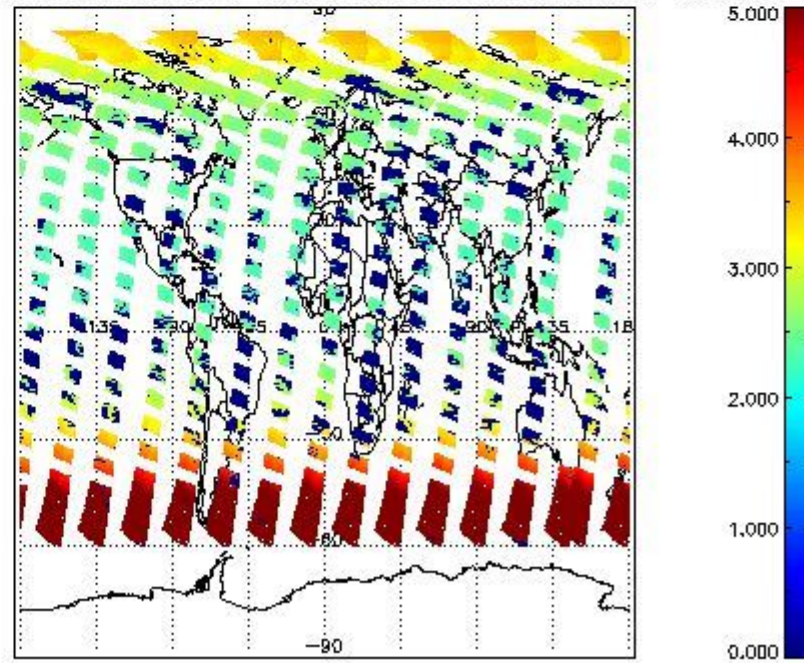
SCIOL2P_NADUV3BRO_vcd_err for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



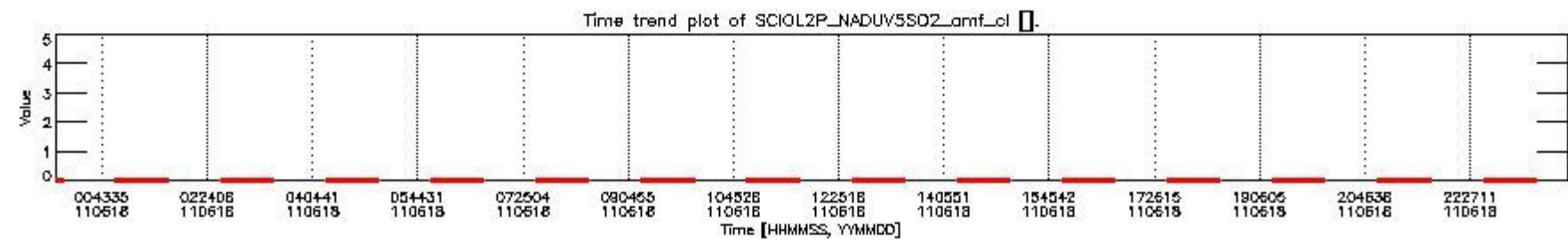
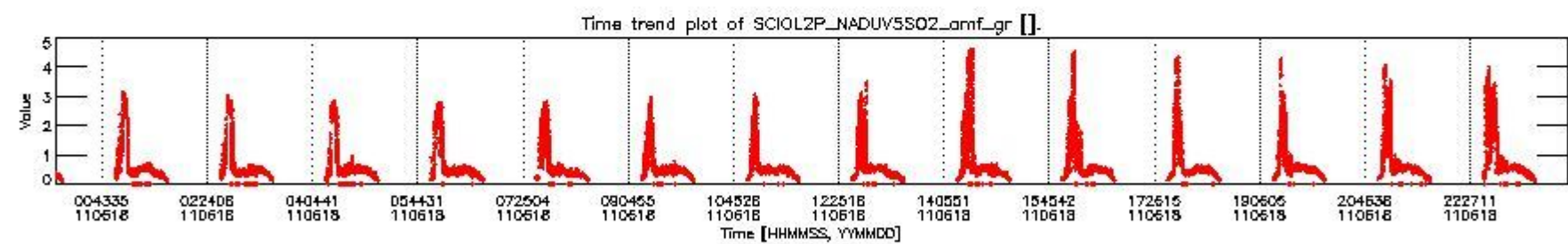
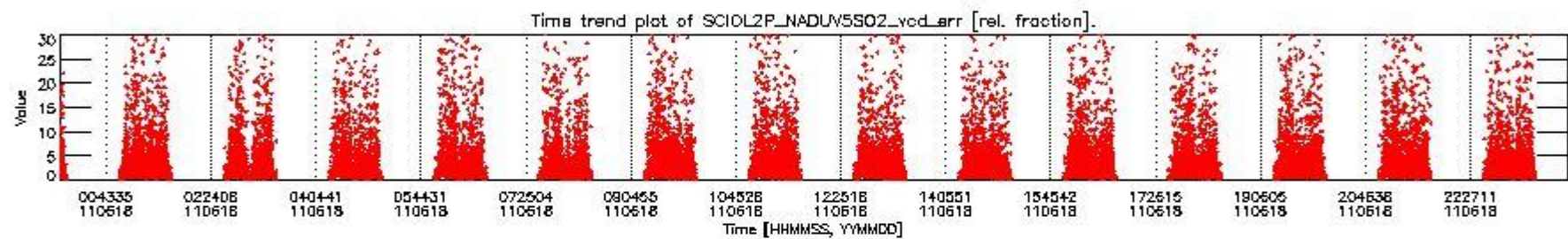
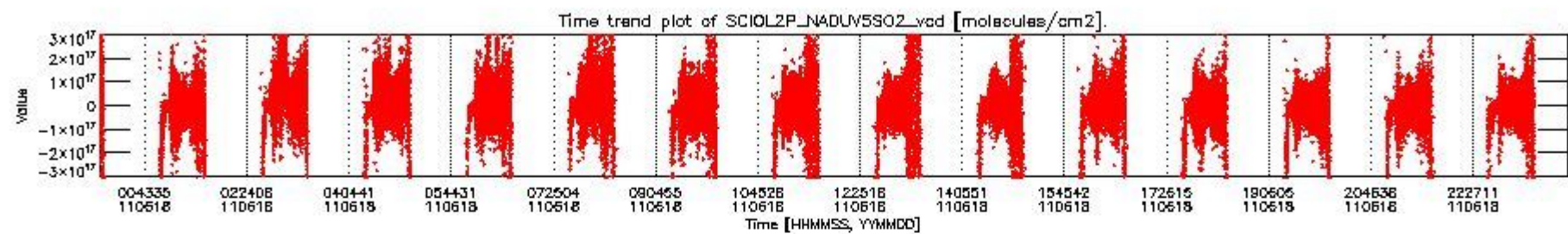
SCIOL2P_NADUV3BRO_amf_gr for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



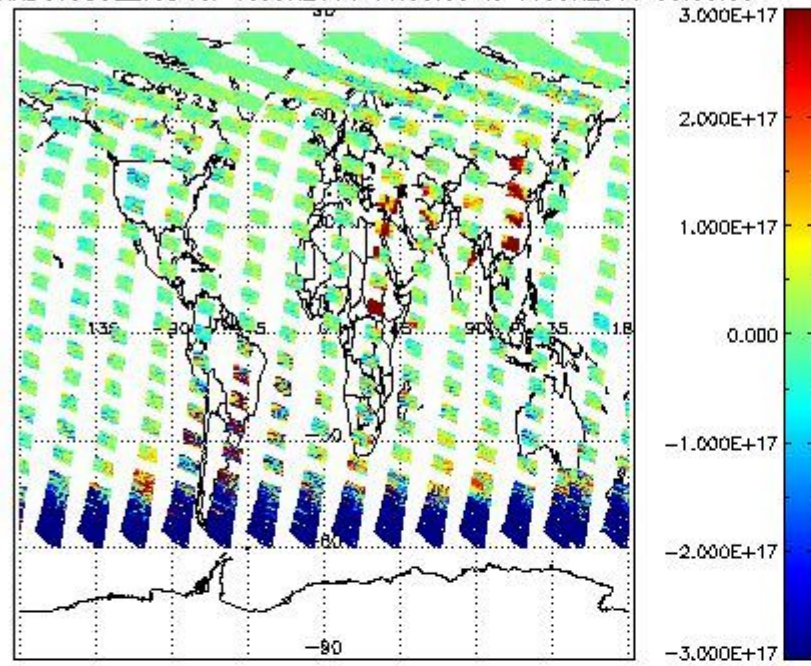
SCIOL2P_NADUV3BRO_amf_cl for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



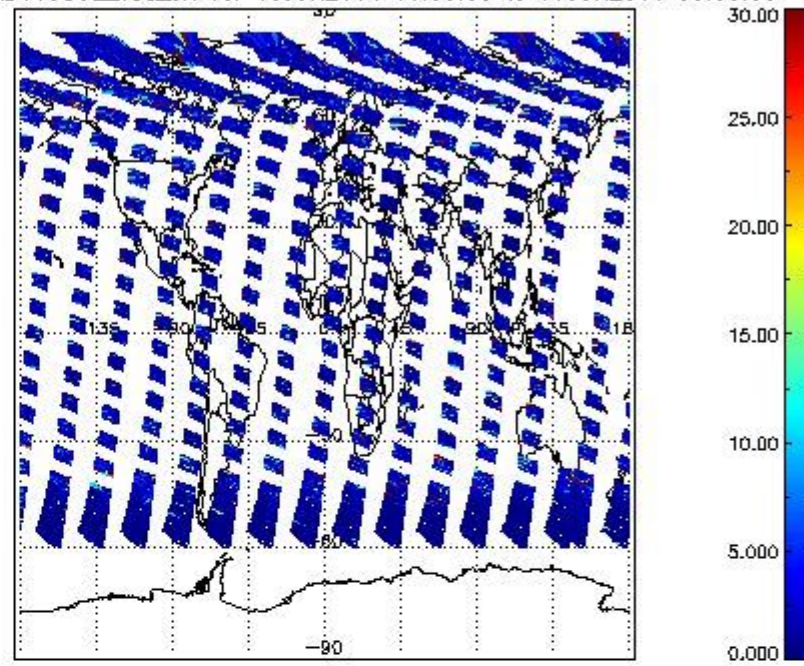
2.2.2.4 SO2 (UV5)



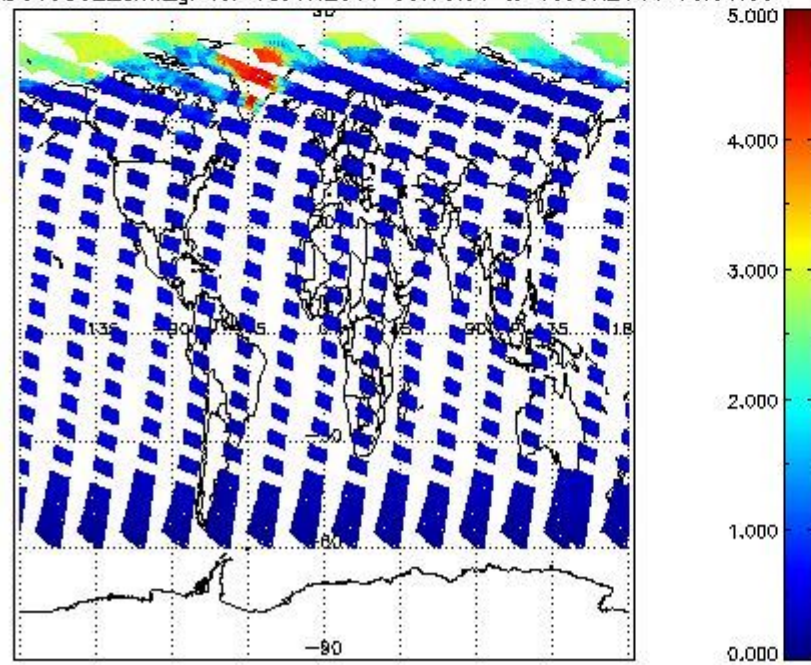
SCIOL2P_NADUV5S02_vcd for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



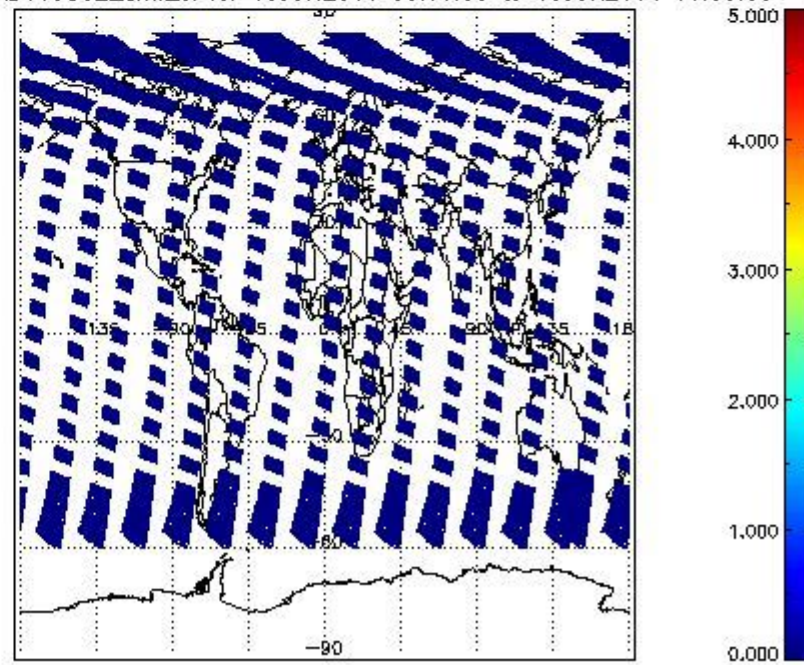
SCIOL2P_NADUV5S02_vcd_err for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



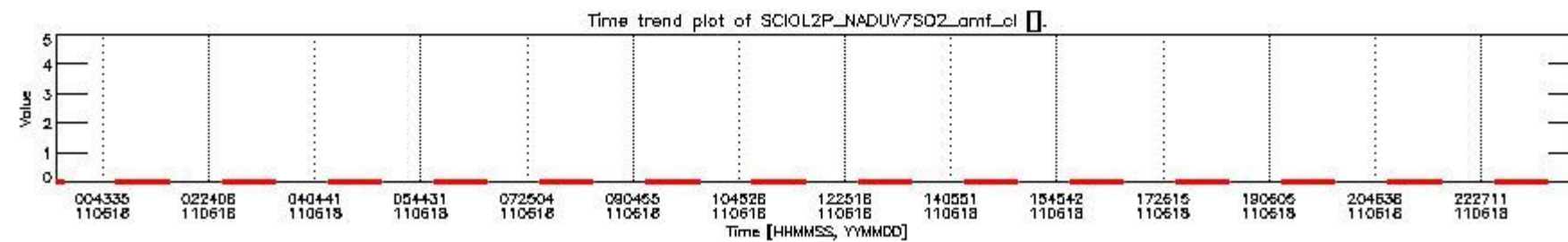
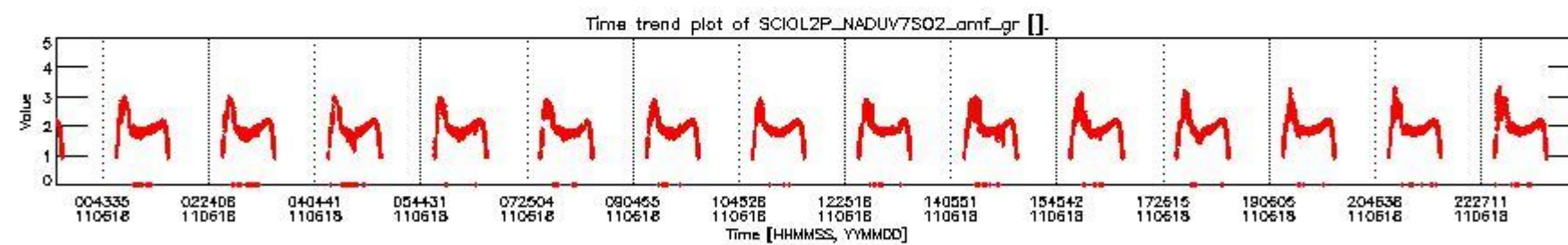
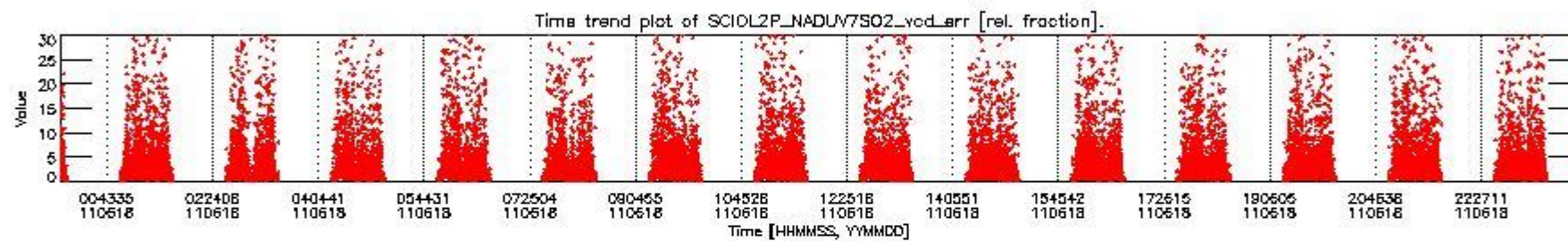
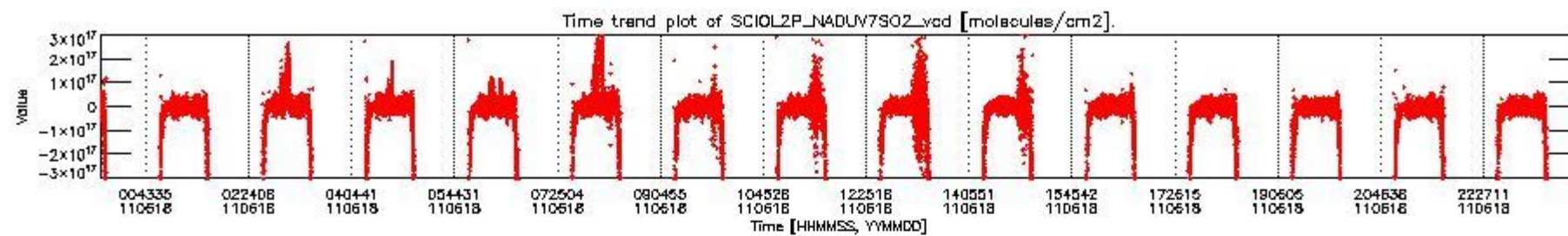
SCIOL2P_NADUV5S02_amf_gr for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



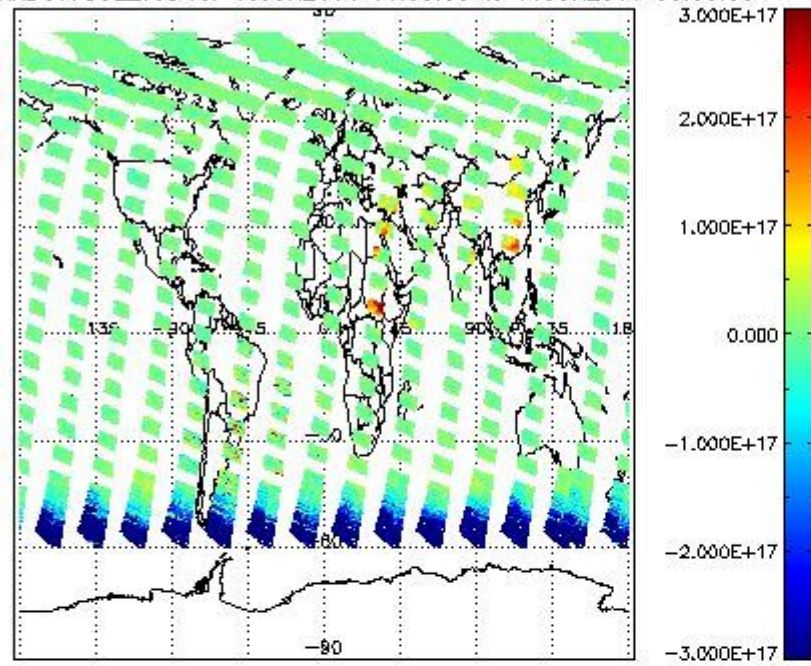
SCIOL2P_NADUV5S02_amf_cl for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



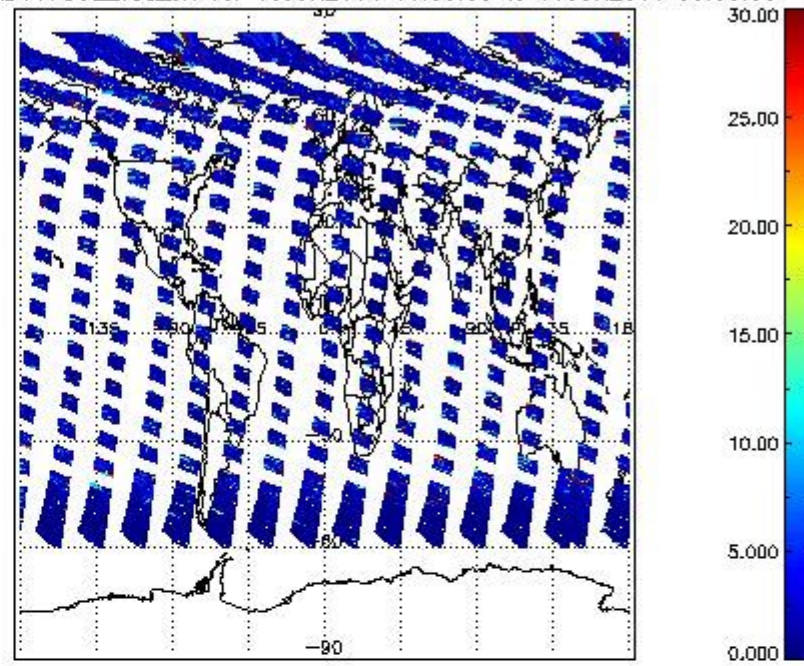
2.2.2.5 SO2 (UV7)



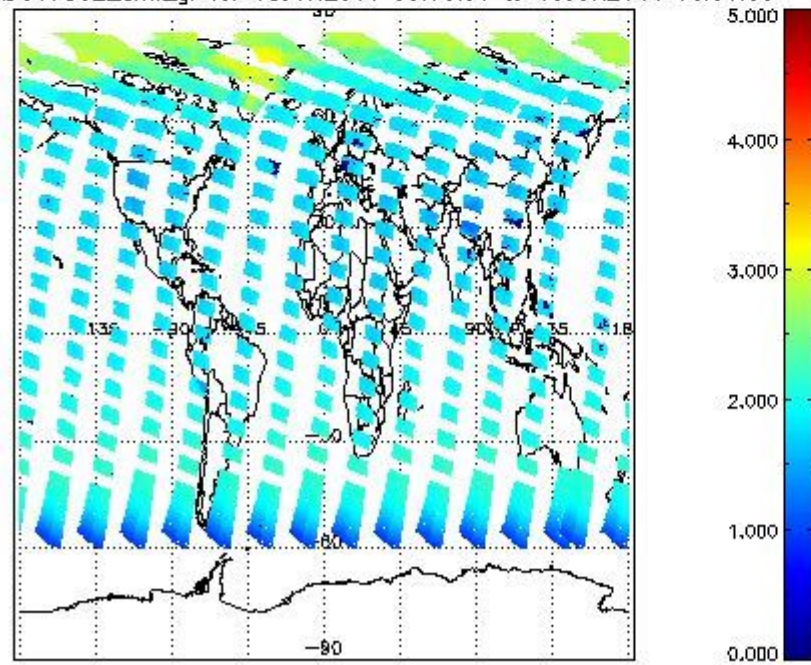
SCIOL2P_NADUV7S02_vcd for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



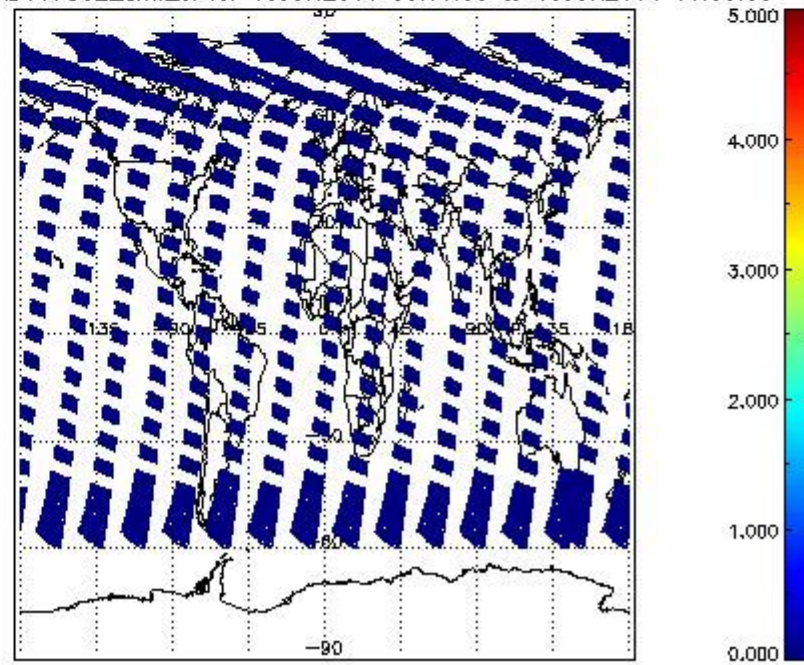
SCIOL2P_NADUV7S02_vcd_err for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



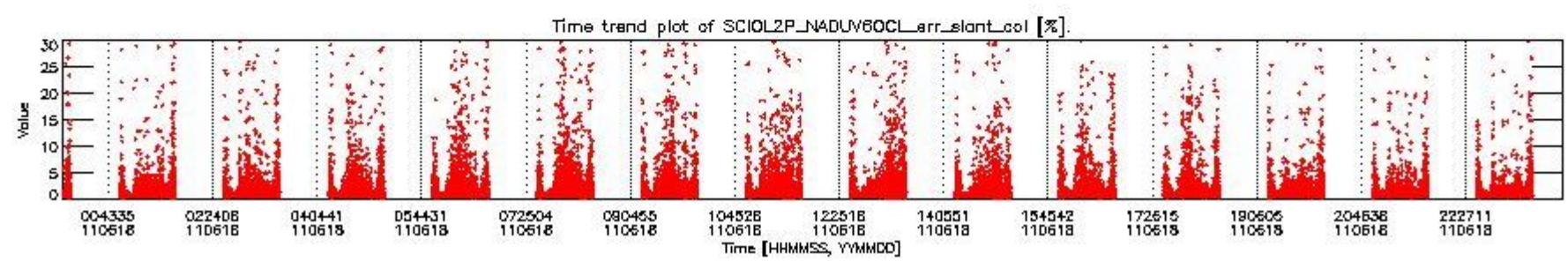
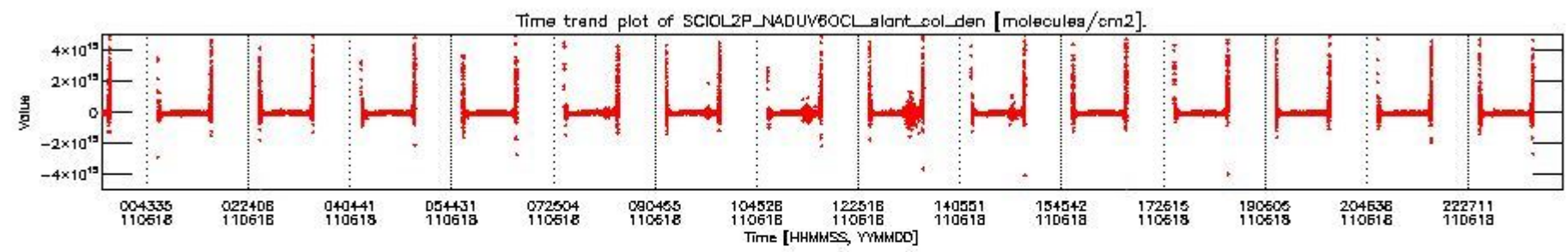
SCIOL2P_NADUV7S02_amf_gr for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



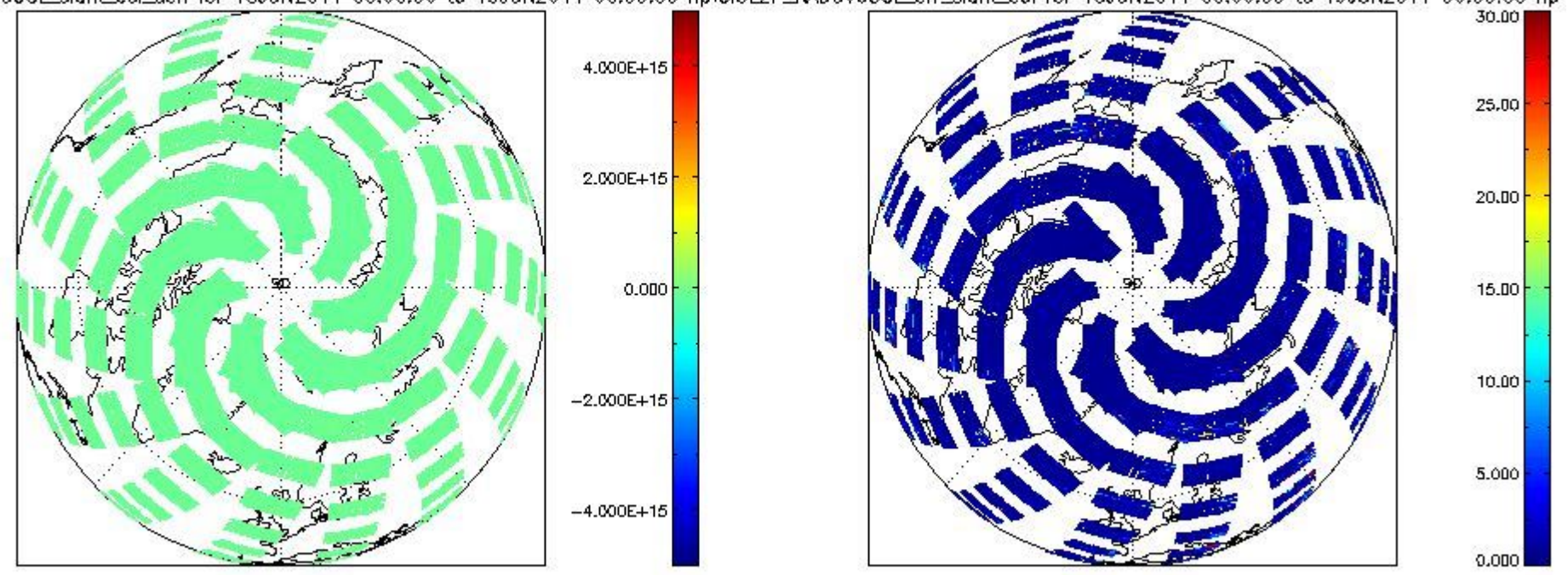
SCIOL2P_NADUV7S02_amf_cl for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



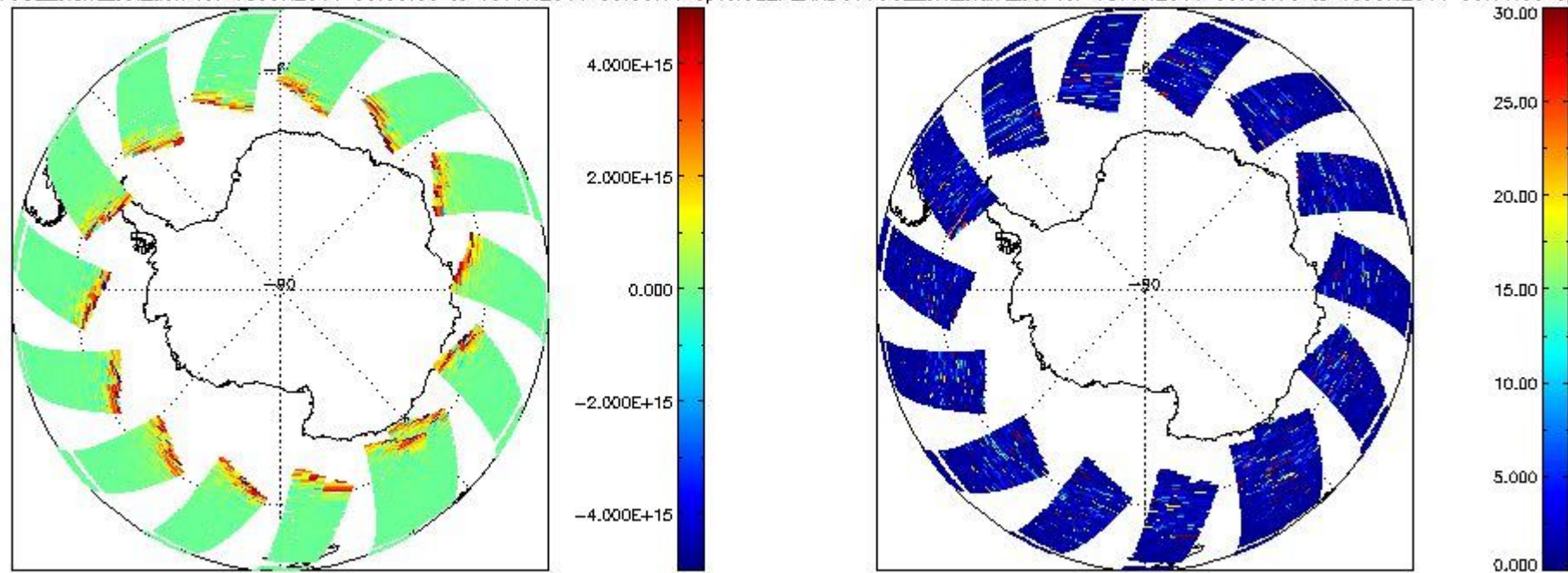
2.2.2.6 OCIO (UV6)



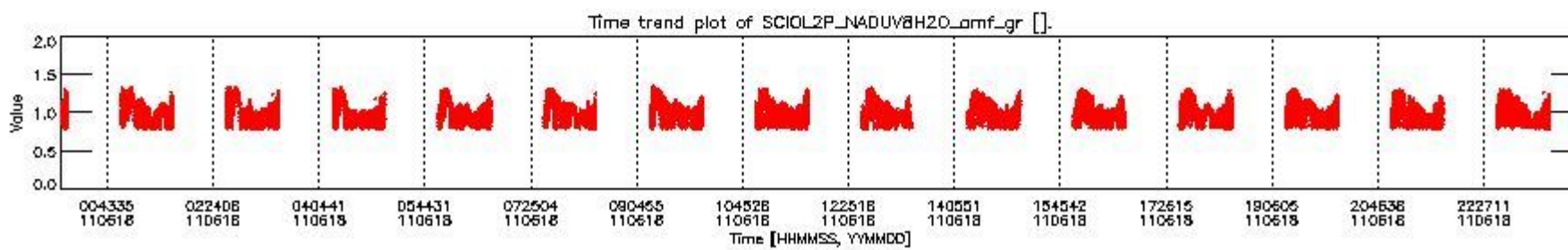
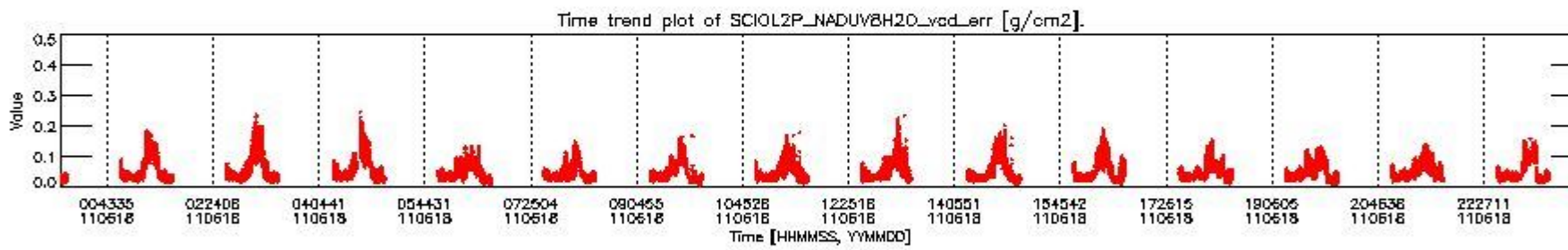
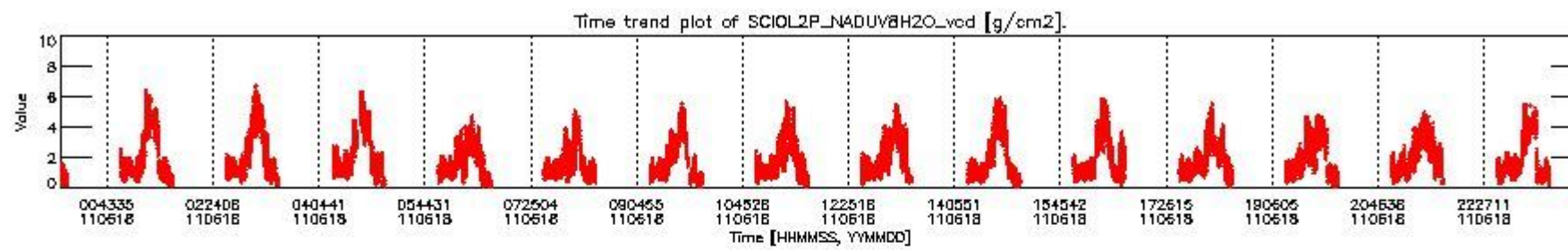
CIOL2P_NADUV6OCLslant_col_den for 18JUN2011 00:00:00 to 19JUN2011 00:00:00 np; CIOL2P_NADUV6OCLerr_slant_col for 18JUN2011 00:00:00 to 19JUN2011 00:00:00 np



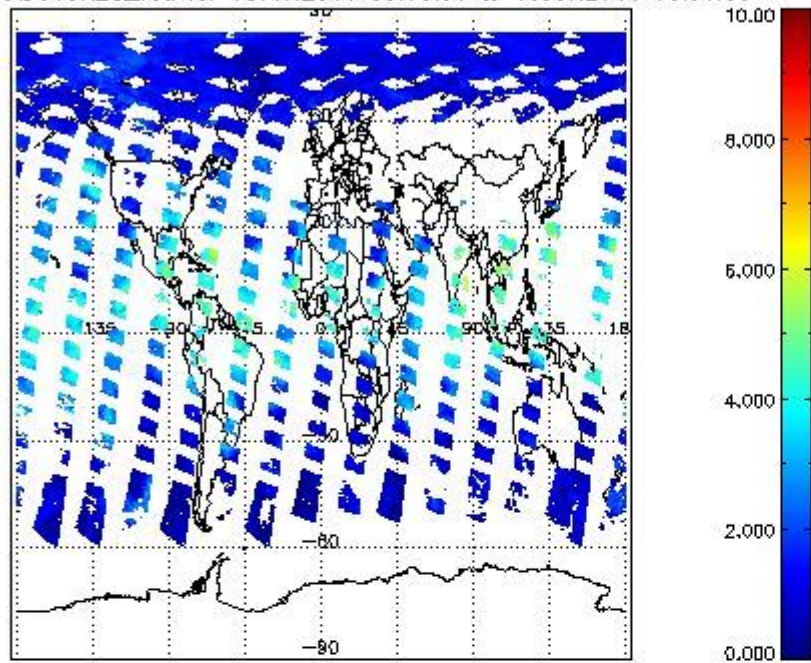
CIOL2P_NADUV60CL_slant_col_den for 18JUN2011 00:00:00 to 19JUN2011 00:00:00 sp CIOL2P_NADUV60CL_err_slant_col for 18JUN2011 00:00:00 to 19JUN2011 00:00:00 sp



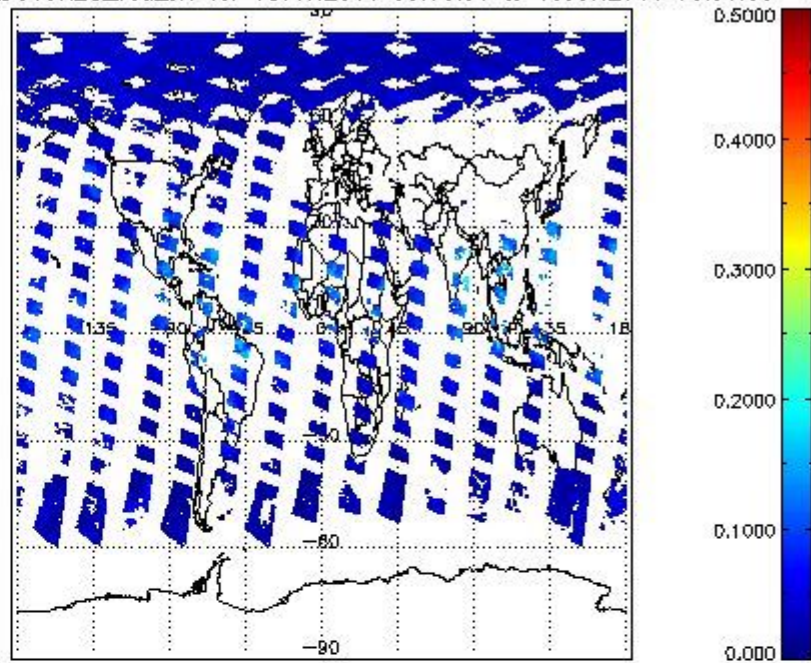
2.2.2.7 H2O (UV8)



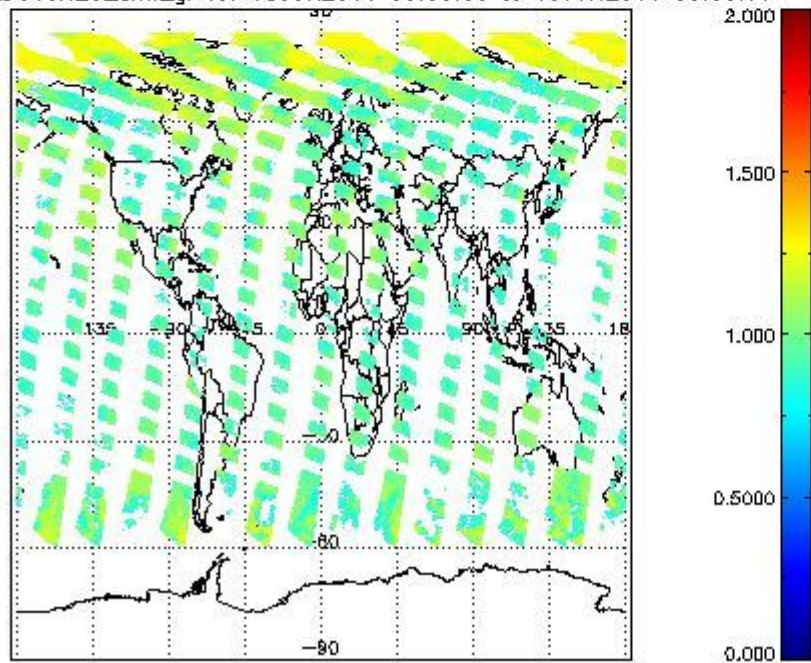
SCIOL2P_NADUV8H2O_vcd for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



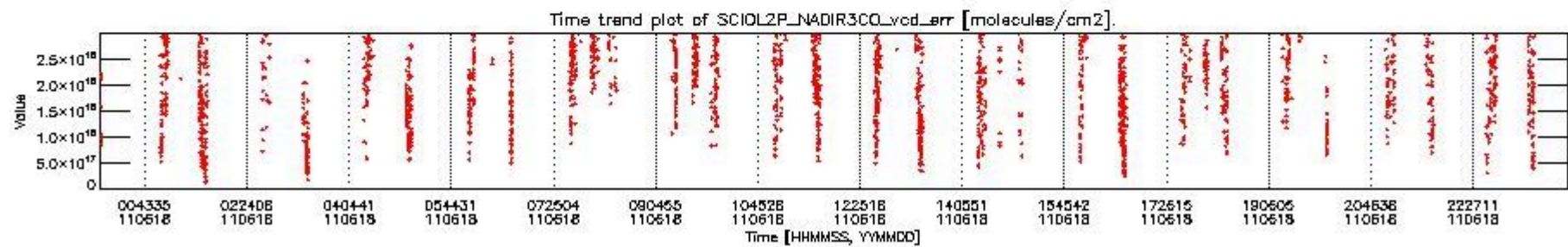
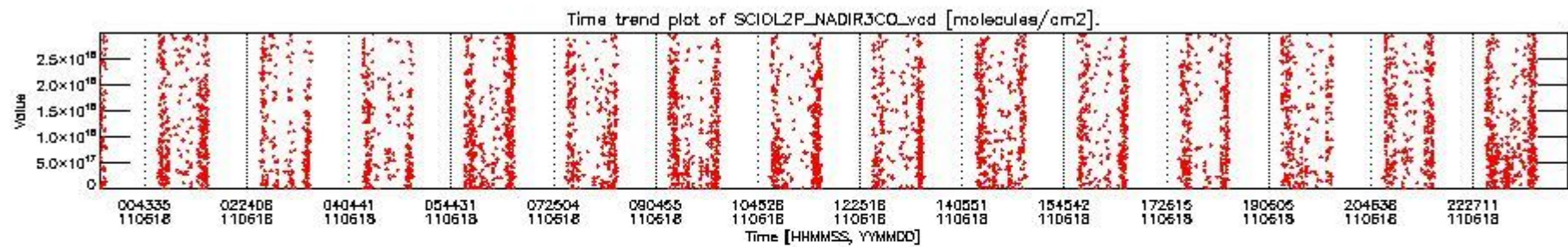
SCIOL2P_NADUV8H2O_vcd_err for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



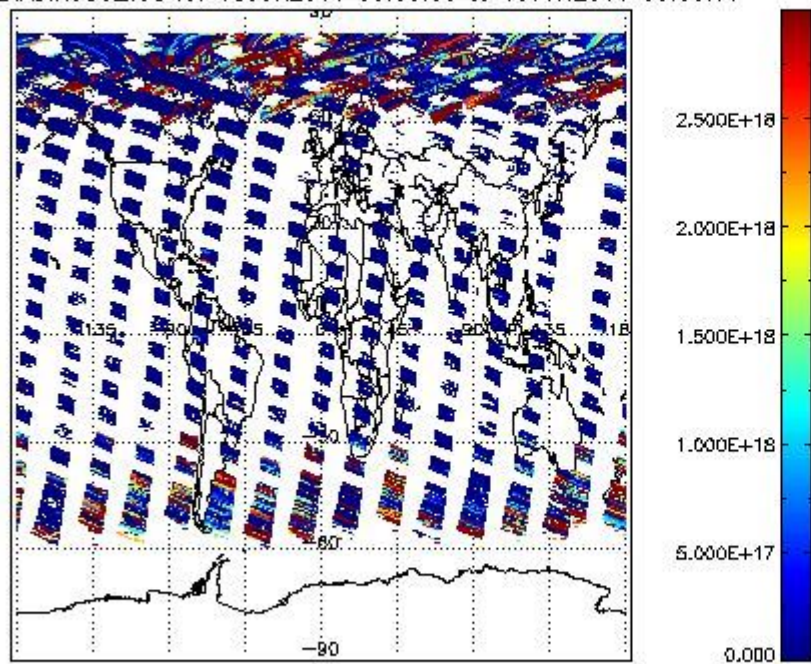
SCIOL2P_NADUV8H2O_arnf_gr for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



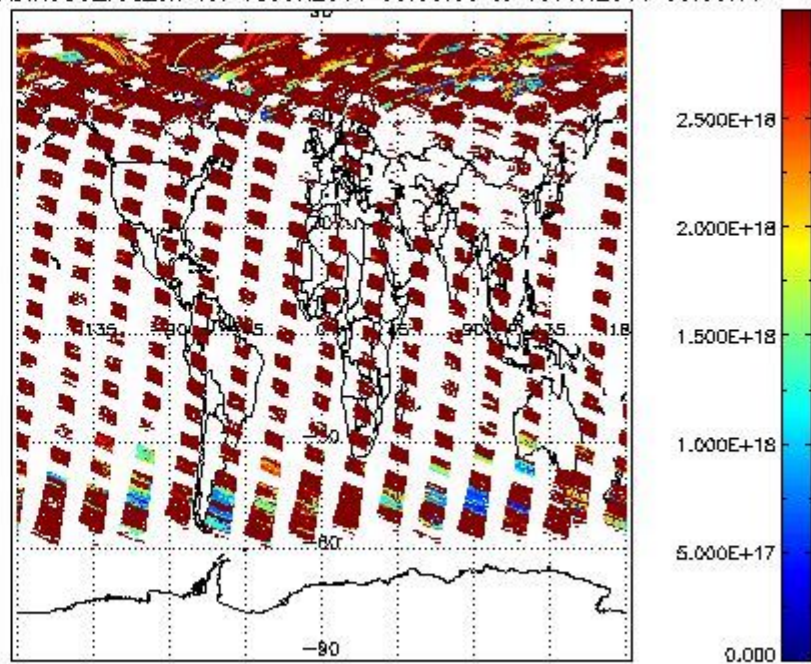
2.2.2.8 CO (IR3)



SCIOL2P_NADIR3CO_vcd for 1BJUN2011 00:00:00 to 19JUN2011 00:00:00



SCIOL2P_NADIR3CO_vcd_err for 1BJUN2011 00:00:00 to 19JUN2011 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)

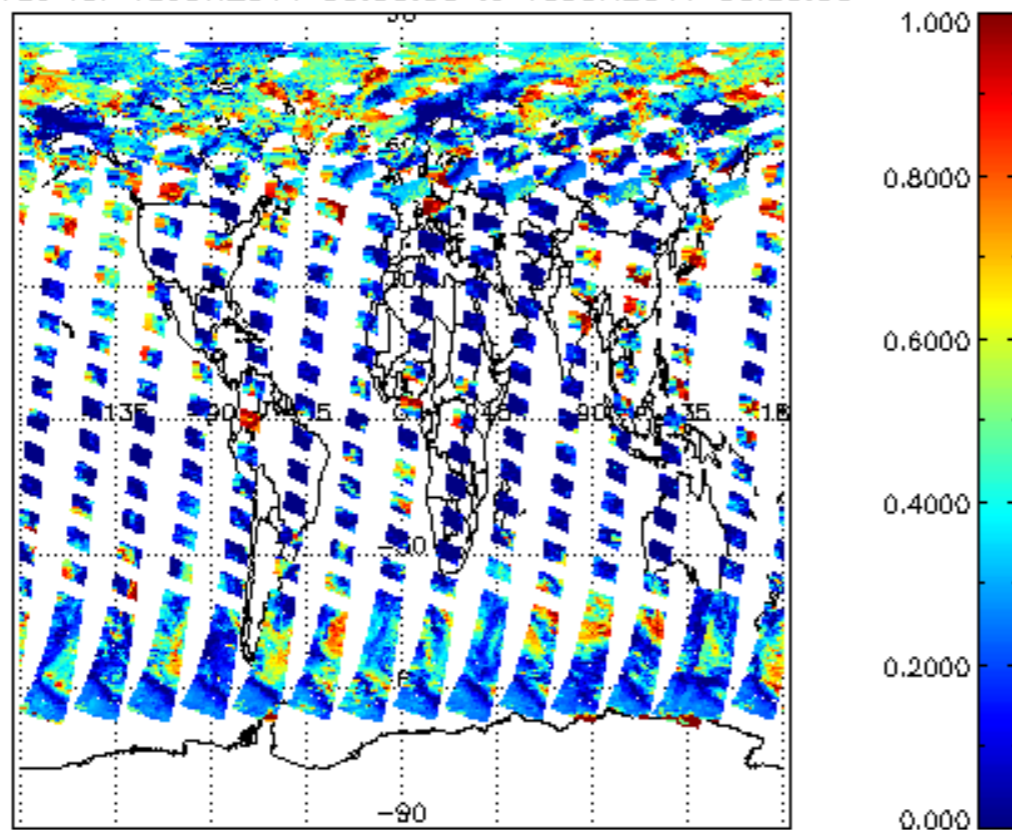
2.2.3.3 BrO (UV3)

No data available for BrO (UV3)

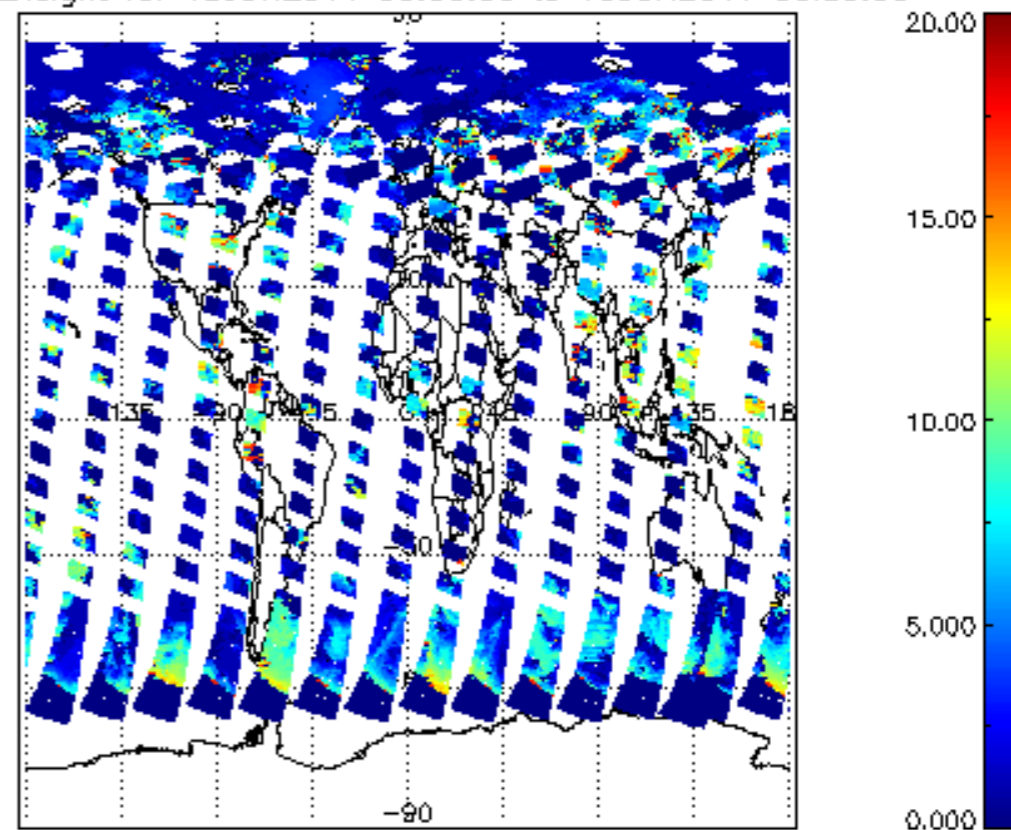
2.3 ADF monitoring

Number	ADF
	IN_ (INITIALISATION_FILE)
0	SCI_IN_AXNPDE20090615_120000_20090615_000000_20991231_235959
	ECF (ECMWF_FILE)
1	NOT USED
	MF1 (M_FACTOR_FILE)
2	SCI_MF1_AXVIEC20110621_110347_20110617_192439_20110619_192439
3	SCI_MF1_AXVIEC20110621_110451_20110618_184753_20110620_184753

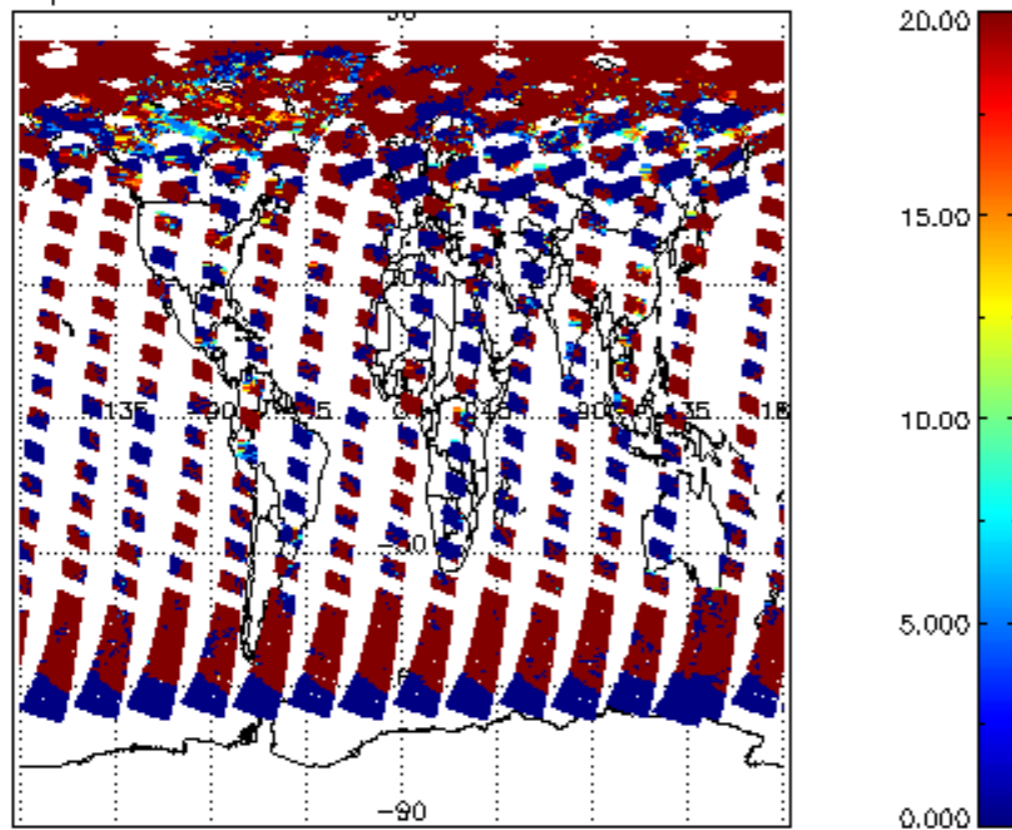
cl_frac for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



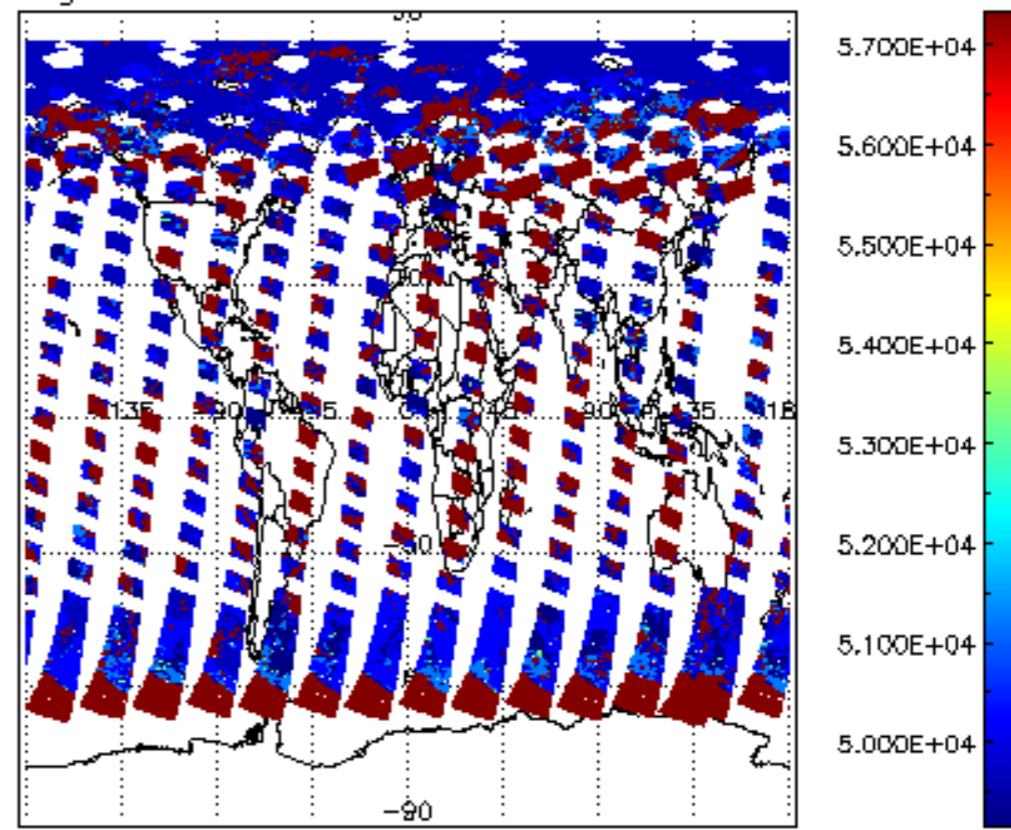
cl_top_height for 18JUN2011 00:00:00 to 19JUN2011 00:00:00

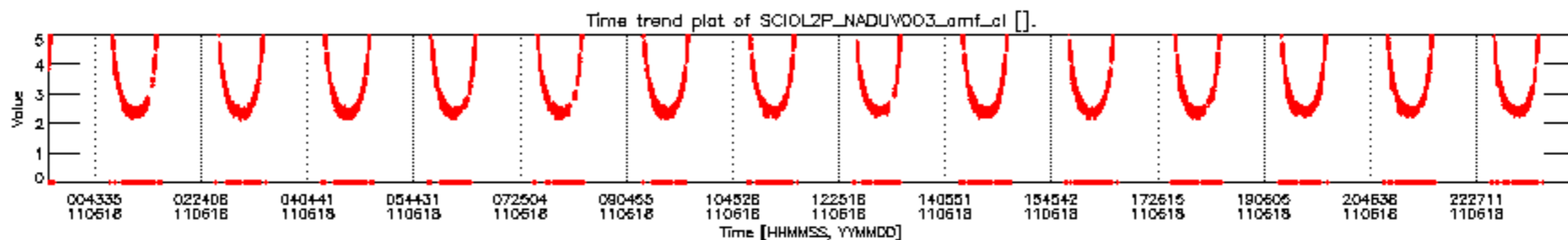
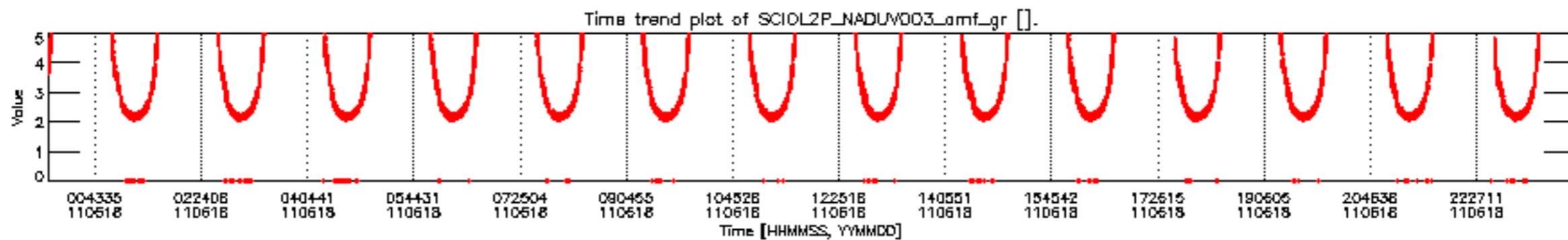
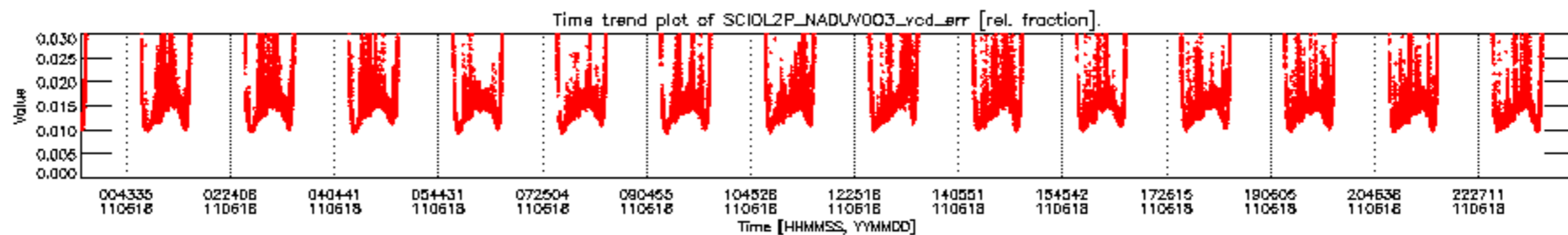
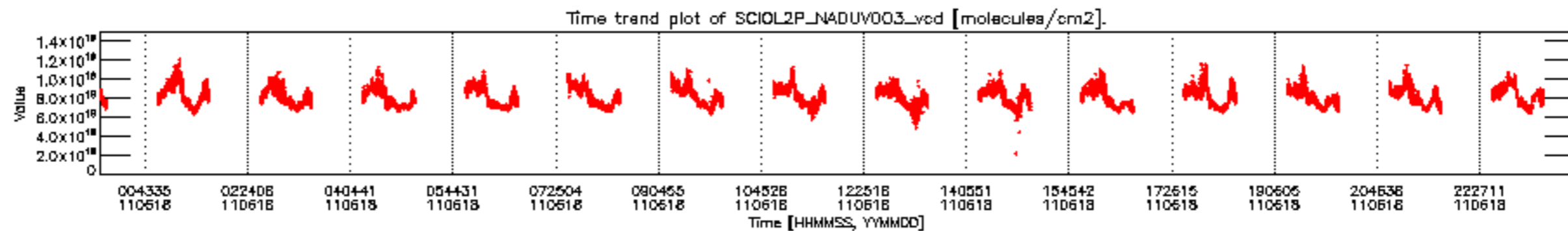


cl_opt_depth for 18JUN2011 00:00:00 to 19JUN2011 00:00:00

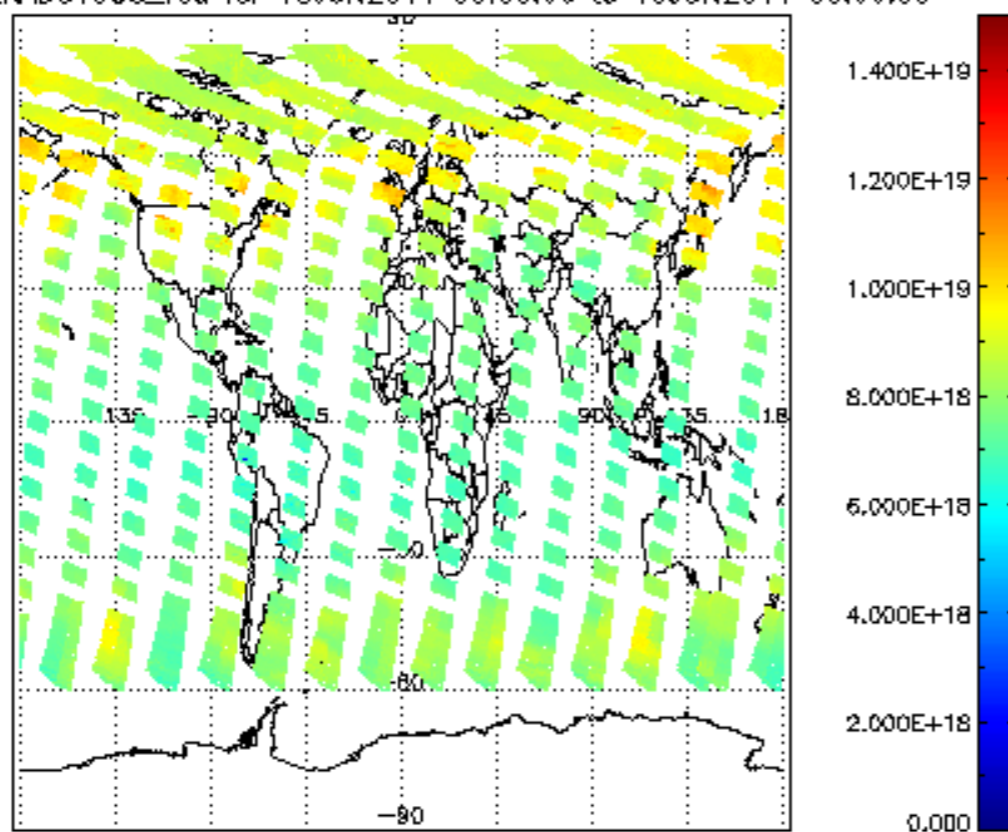


cloud_flags for 18JUN2011 00:00:00 to 19JUN2011 00:00:00

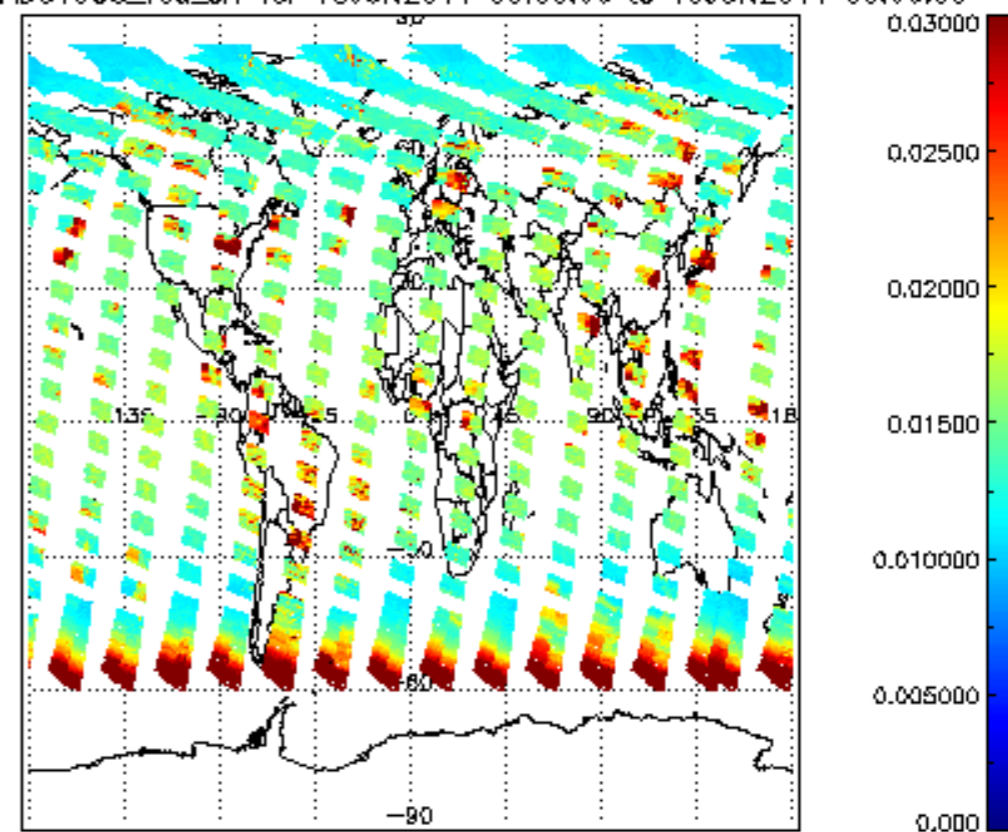




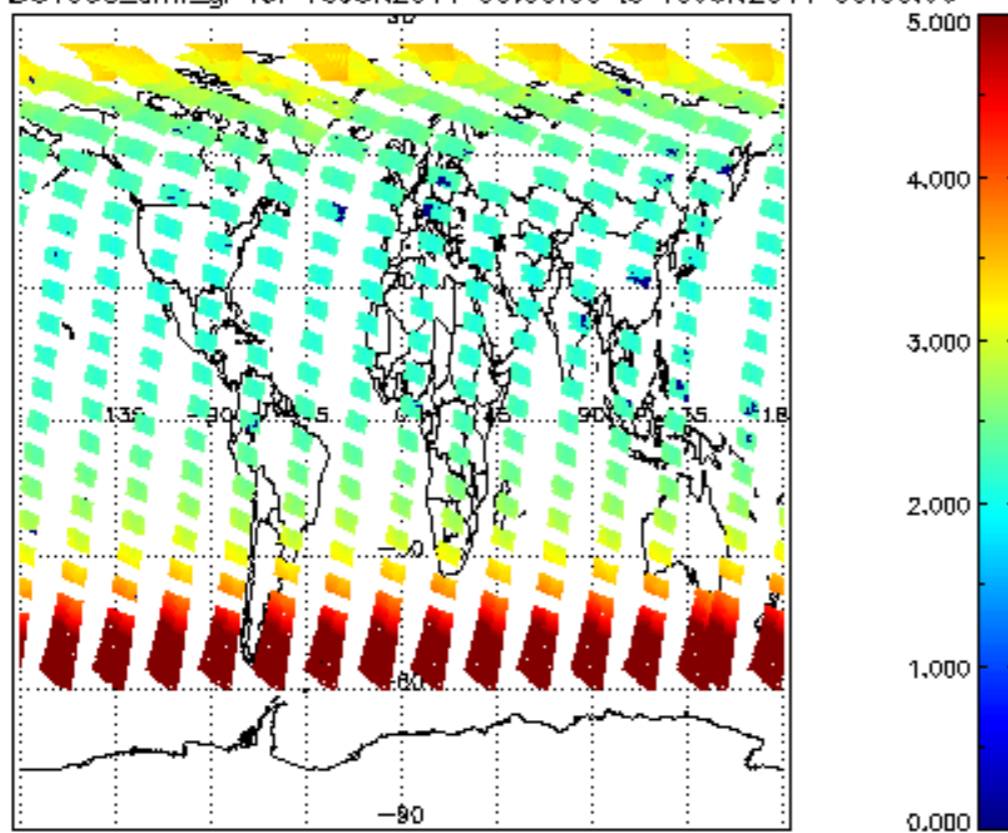
SCIOL2P_NADUV003_vcd for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



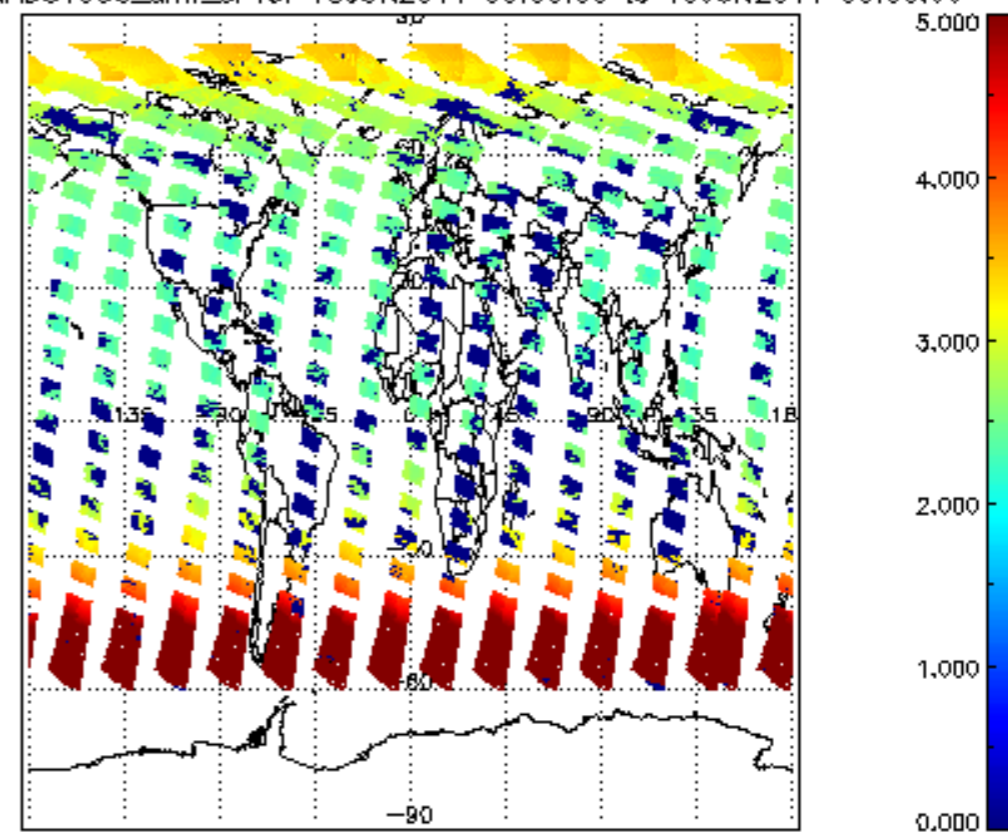
SCIOL2P_NADUV003_vcd_err for 18JUN2011 00:00:00 to 19JUN2011 00:00:00

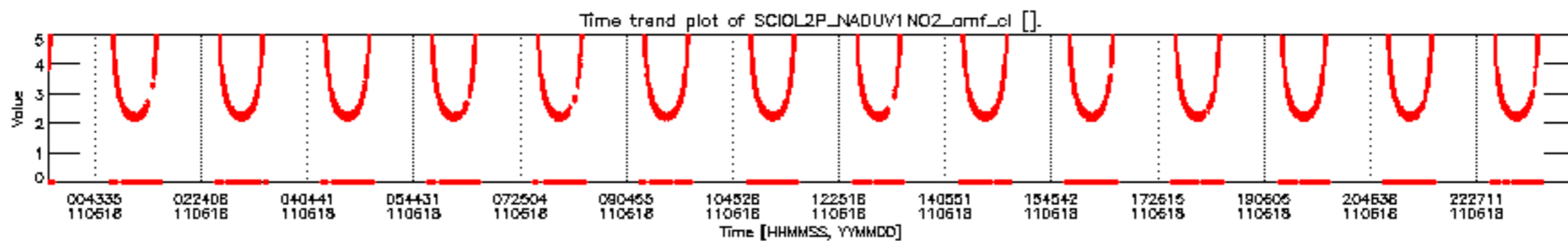
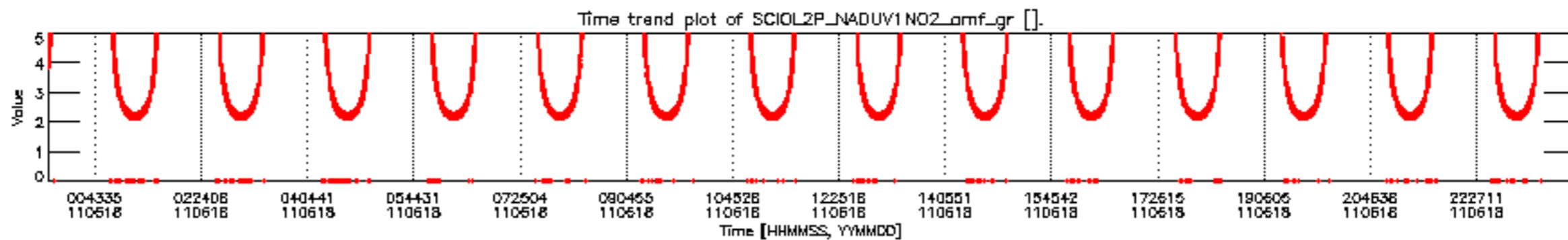
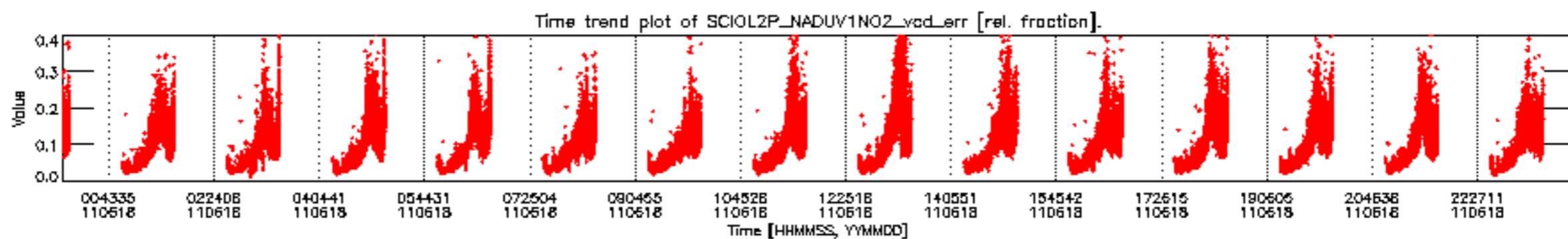
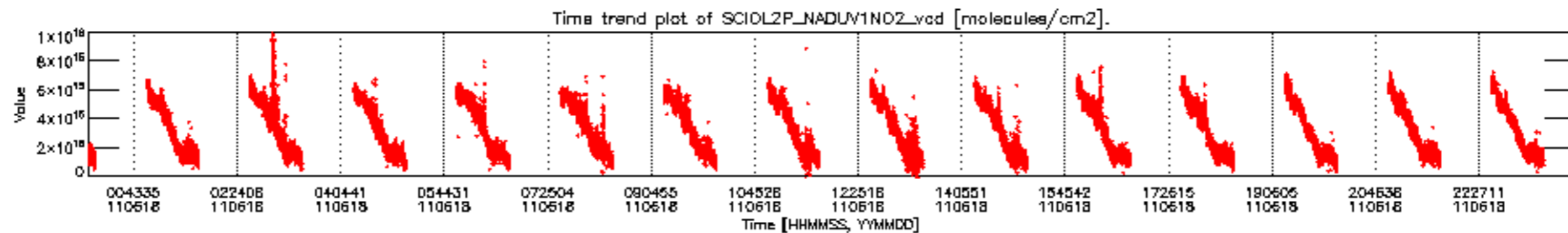


SCIOL2P_NADUV003_amf_gr for 18JUN2011 00:00:00 to 19JUN2011 00:00:00

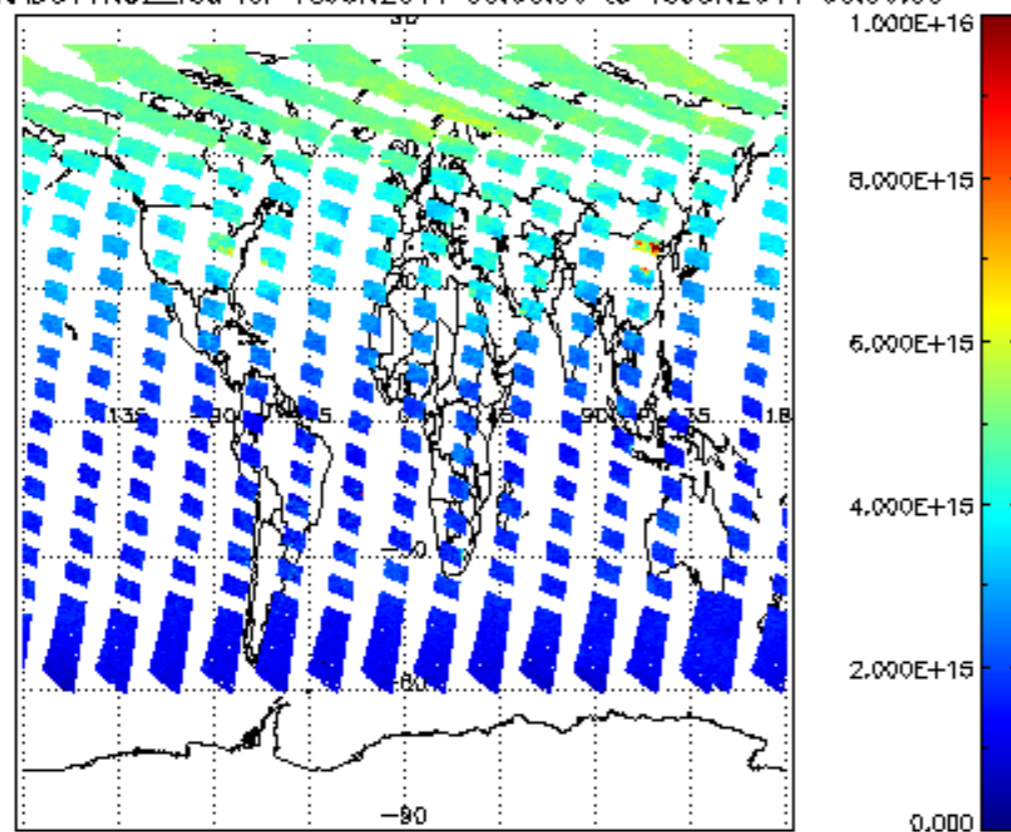


SCIOL2P_NADUV003_amf_cl for 18JUN2011 00:00:00 to 19JUN2011 00:00:00

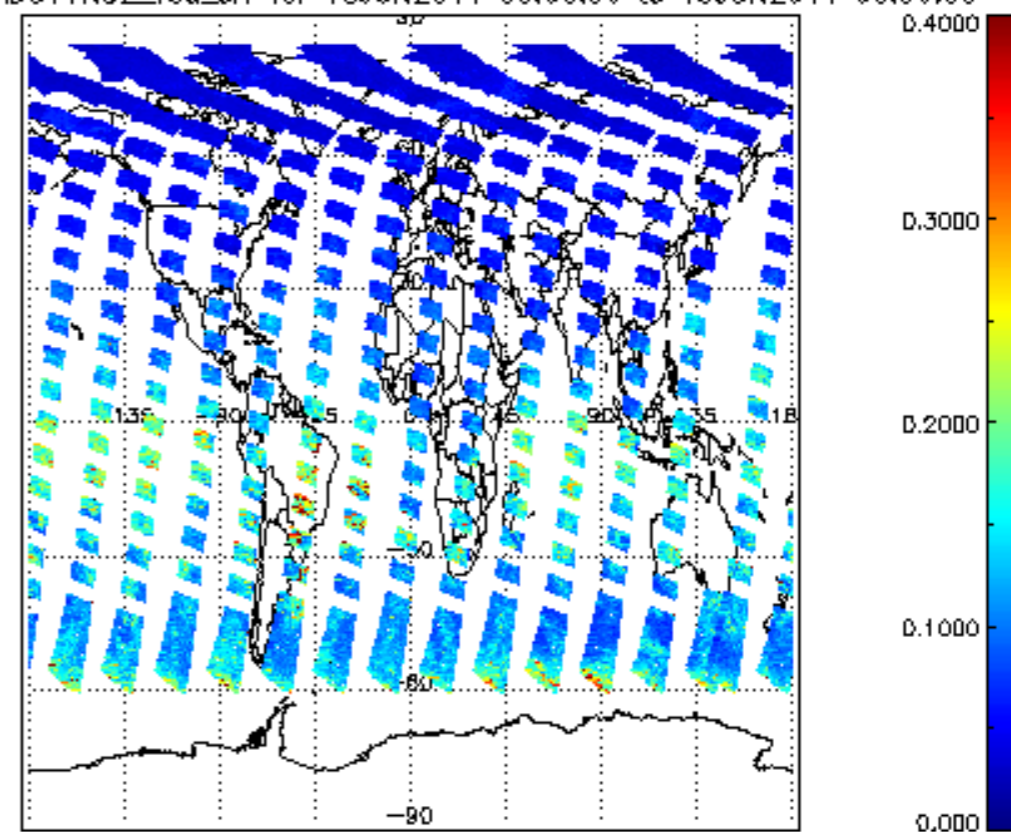




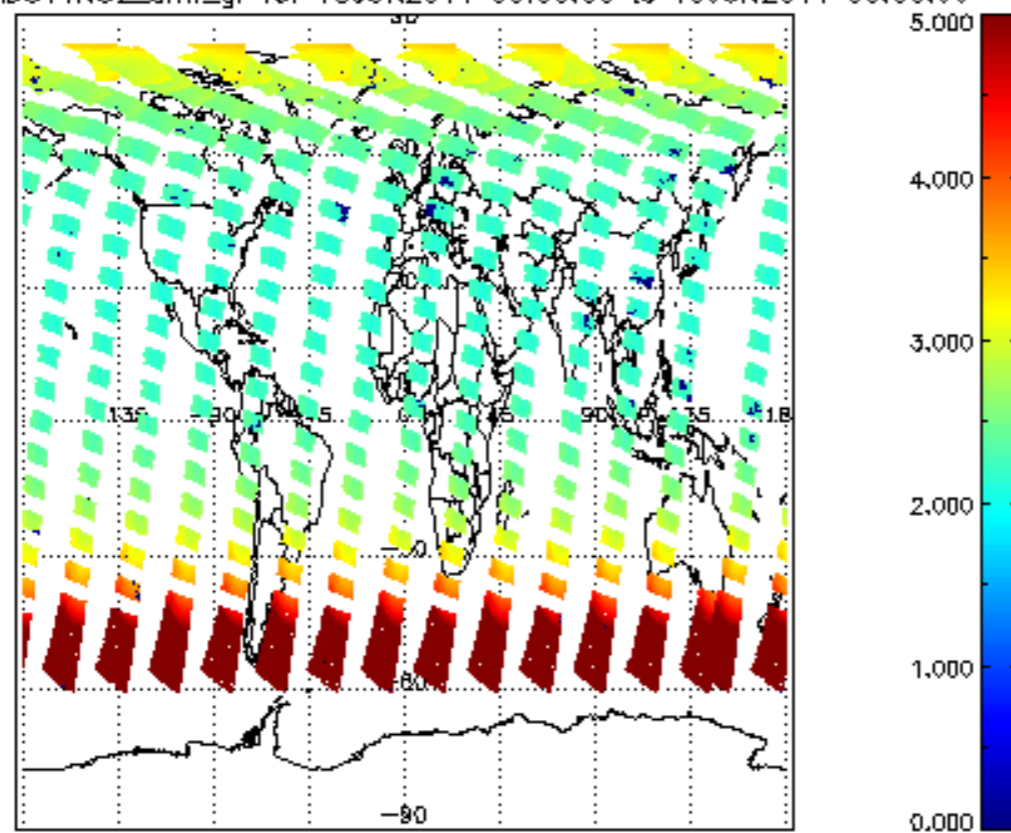
SCIOL2P_NADUV1NO2_vcd for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



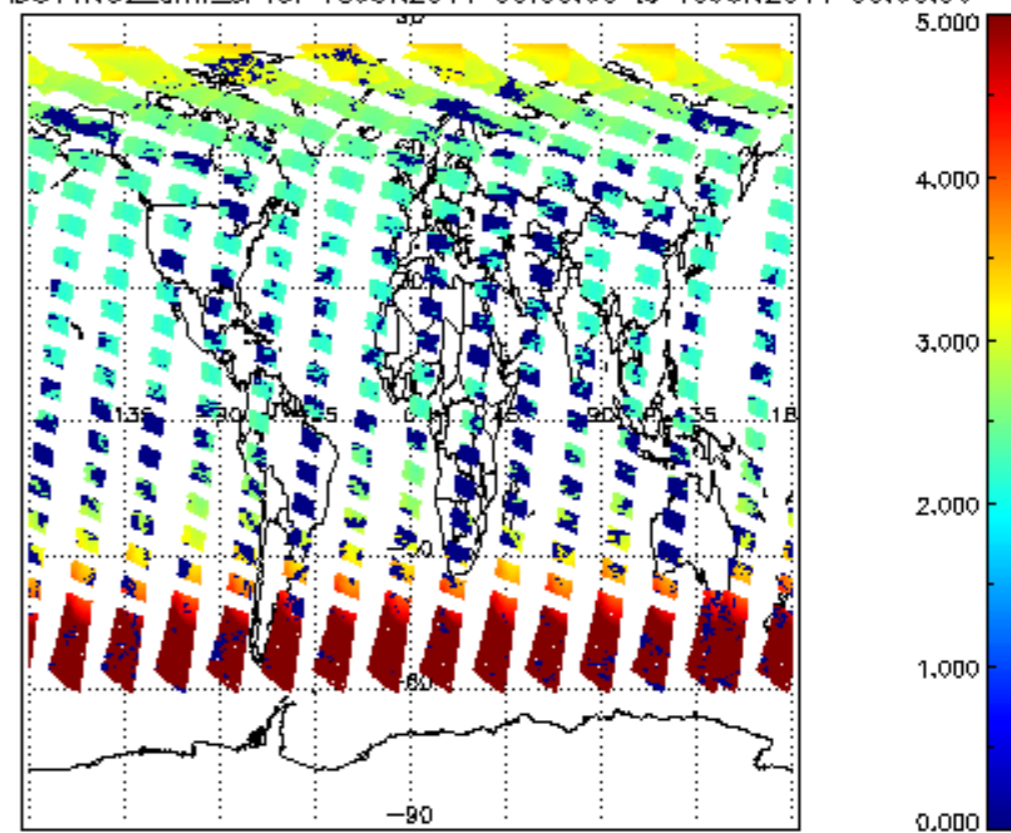
SCIOL2P_NADUV1NO2_vcd_err for 18JUN2011 00:00:00 to 19JUN2011 00:00:00

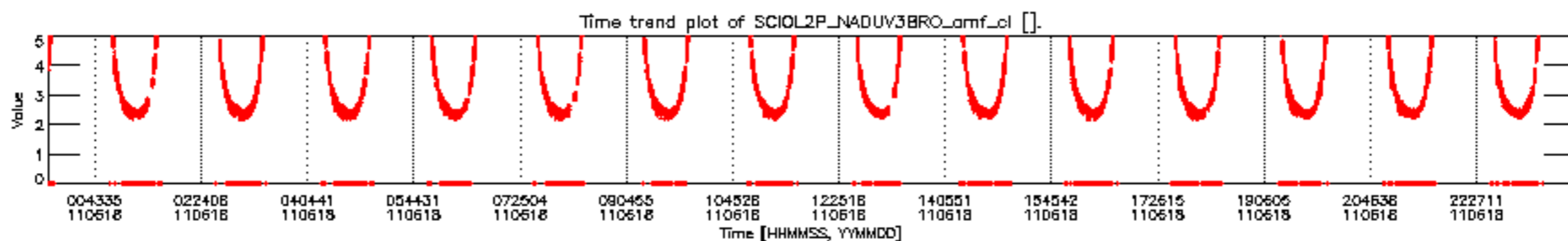
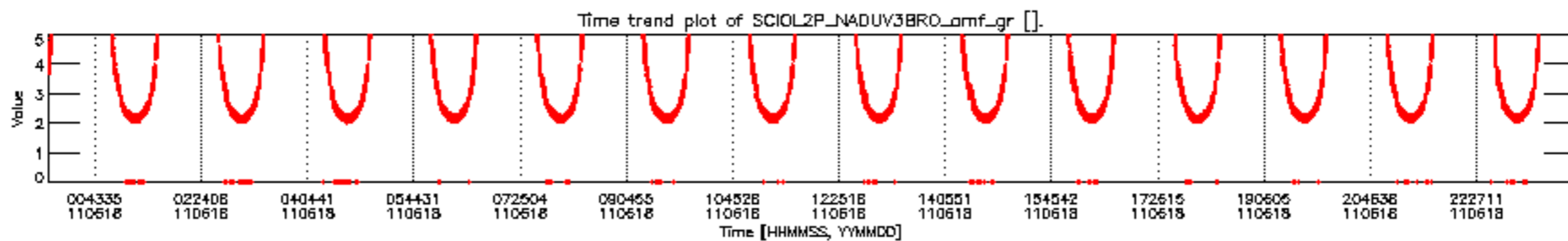
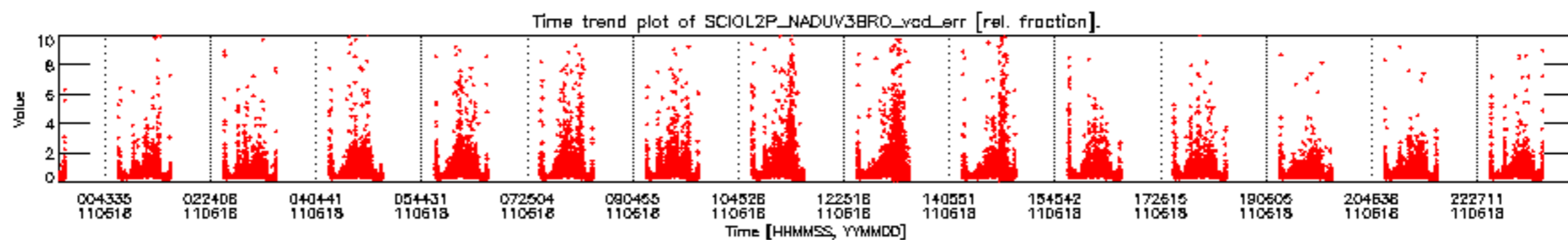
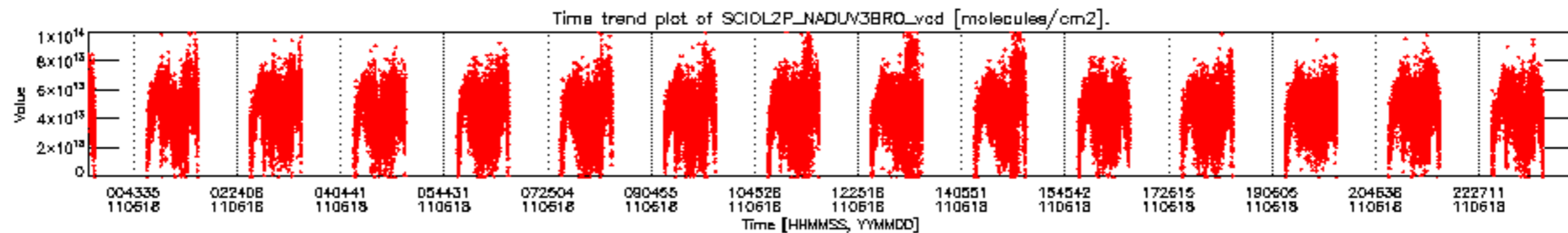


SCIOL2P_NADUV1NO2_amf_gr for 18JUN2011 00:00:00 to 19JUN2011 00:00:00

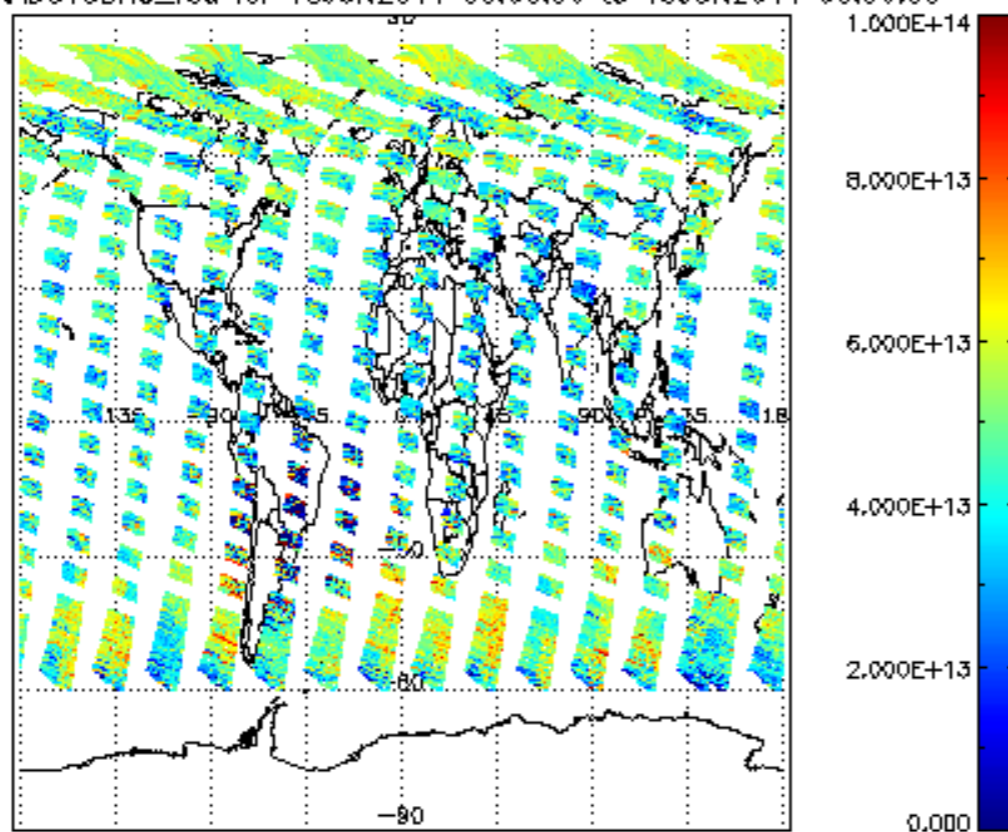


SCIOL2P_NADUV1NO2_amf_sl for 18JUN2011 00:00:00 to 19JUN2011 00:00:00

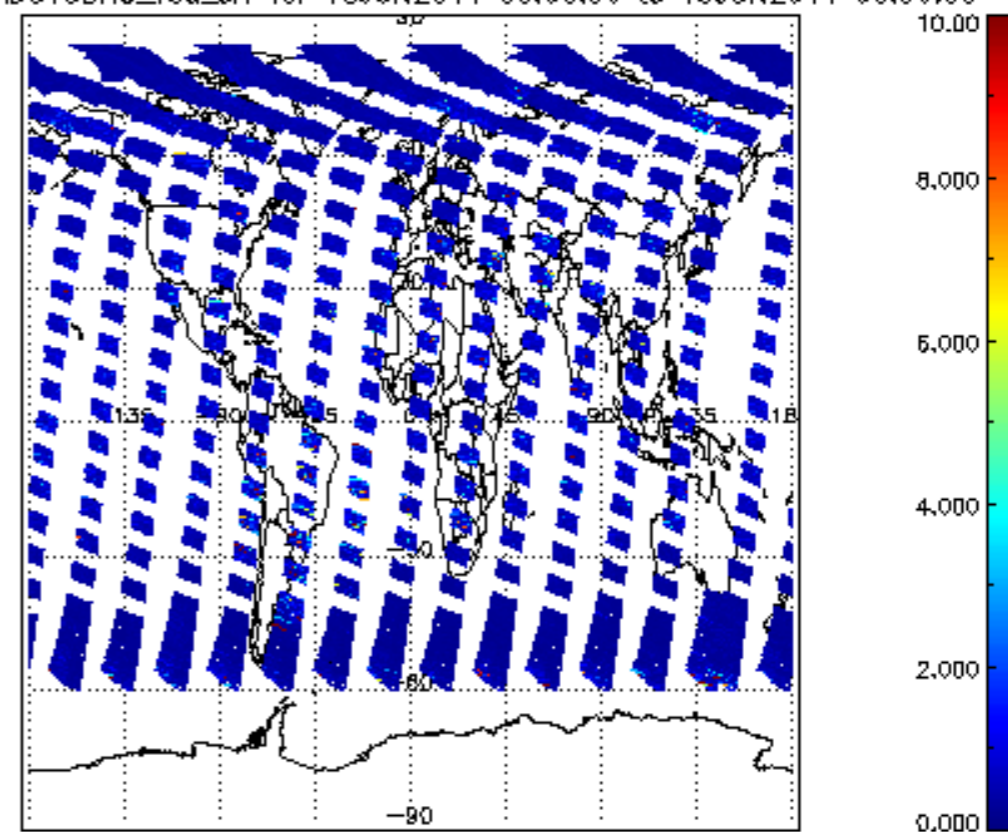




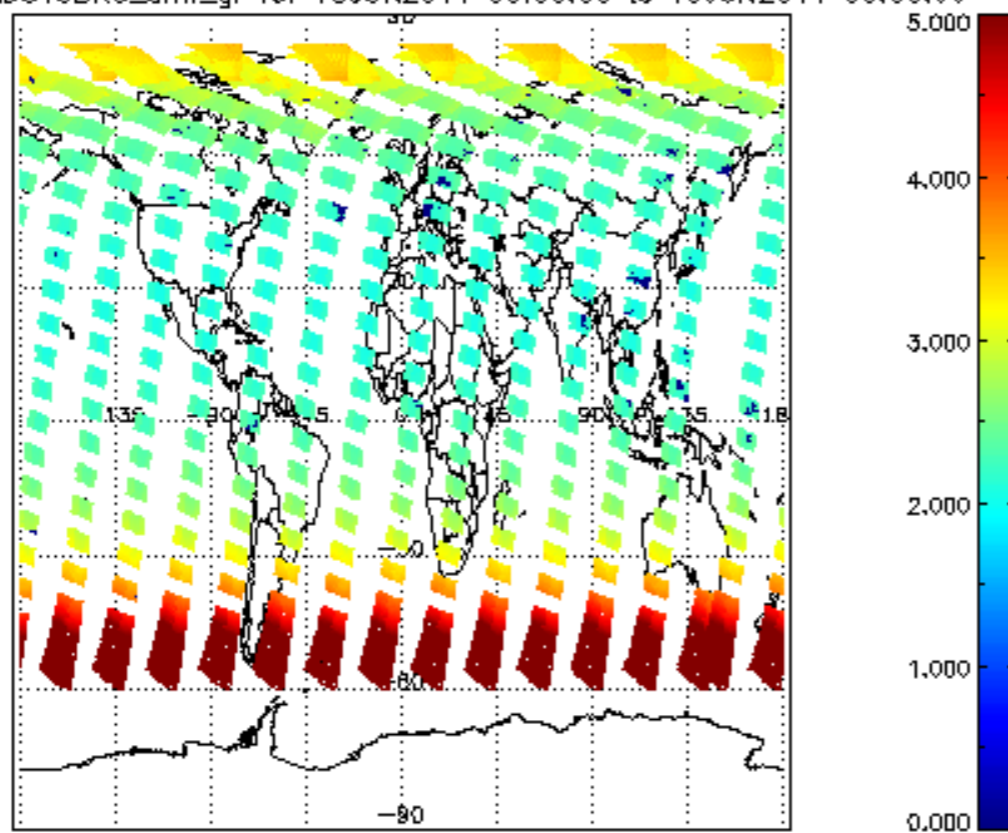
SCIOL2P_NADUV3BRO_vcd for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



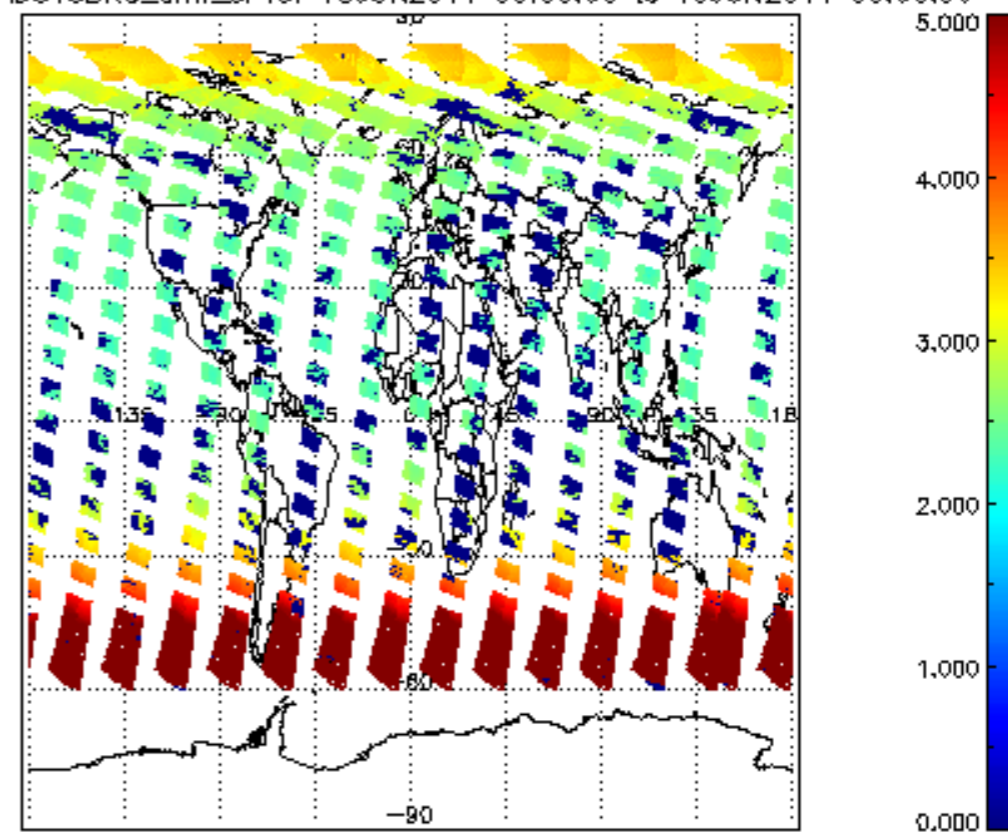
SCIOL2P_NADUV3BRO_vcd_err for 18JUN2011 00:00:00 to 19JUN2011 00:00:00

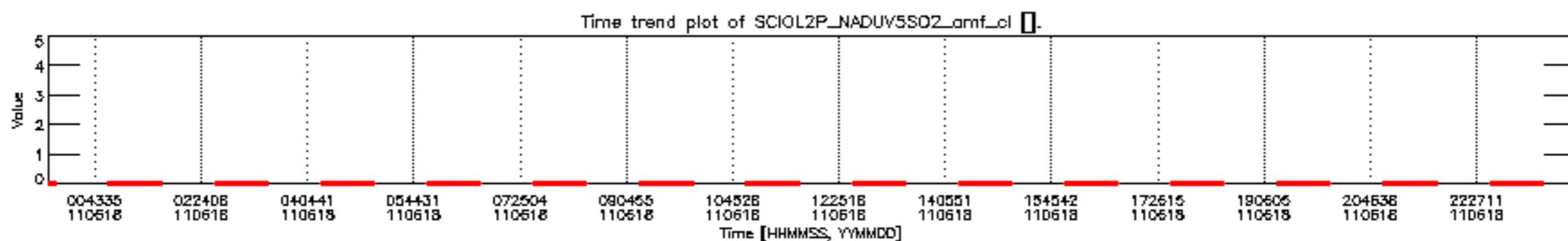
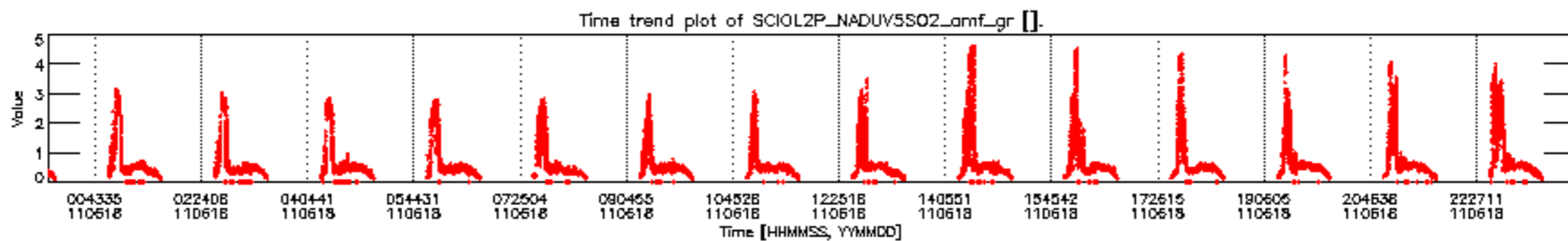
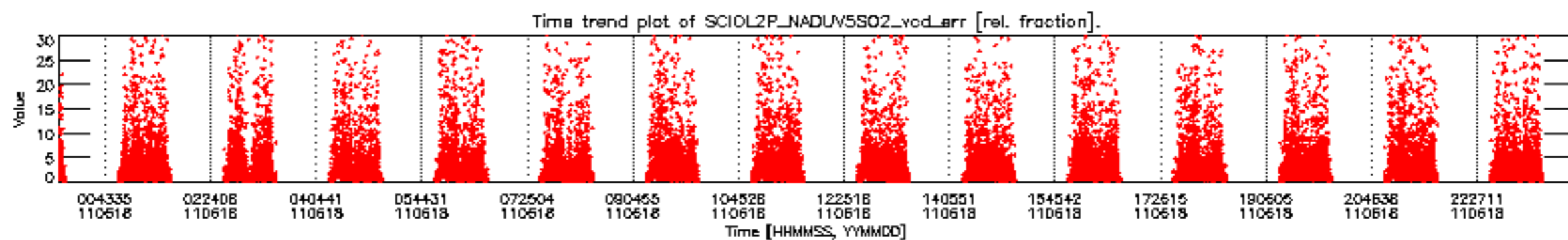
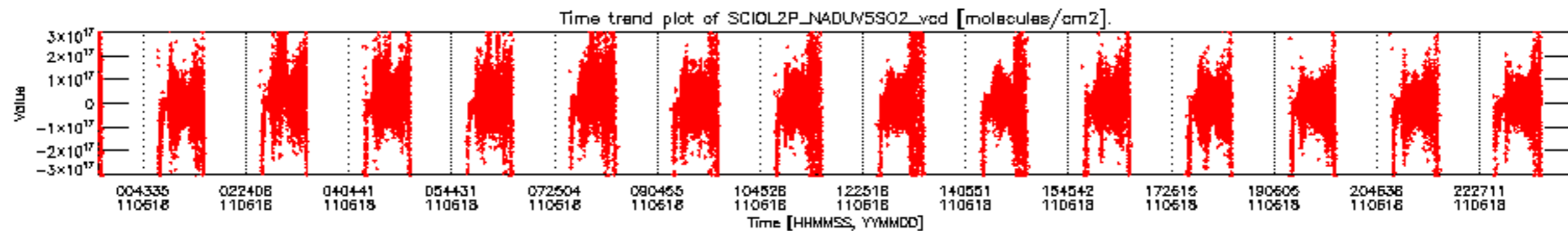


SCIOL2P_NADUV3BRO_amf_gr for 18JUN2011 00:00:00 to 19JUN2011 00:00:00

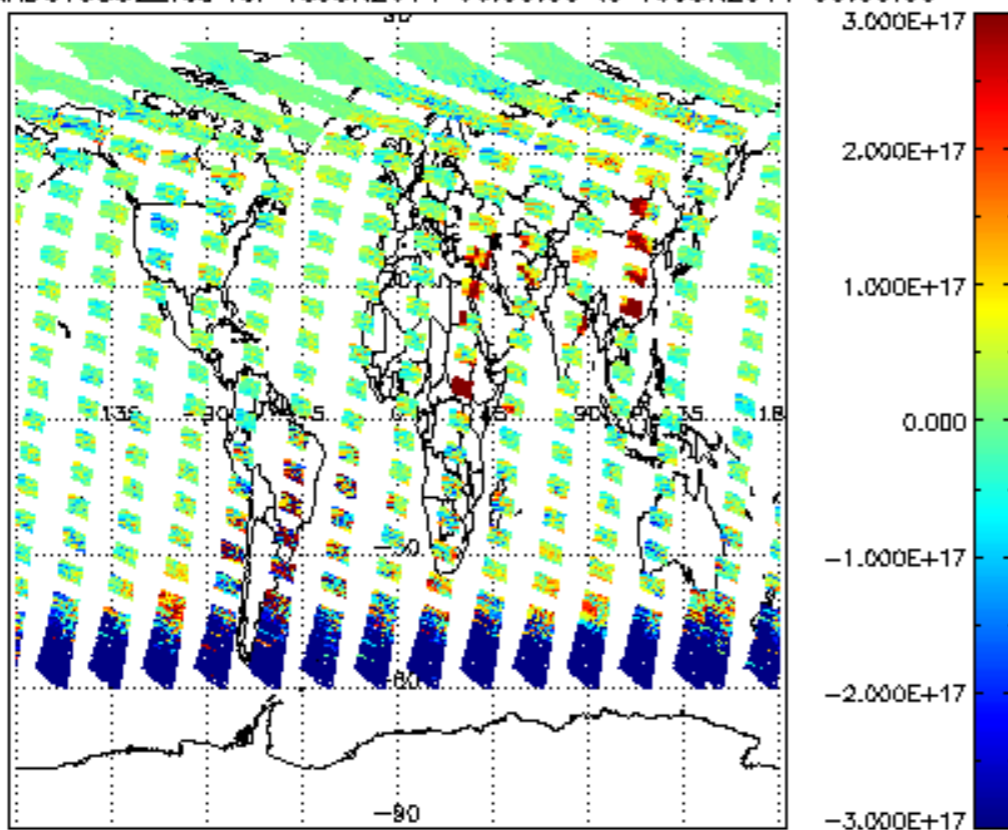


SCIOL2P_NADUV3BRO_amf_sl for 18JUN2011 00:00:00 to 19JUN2011 00:00:00

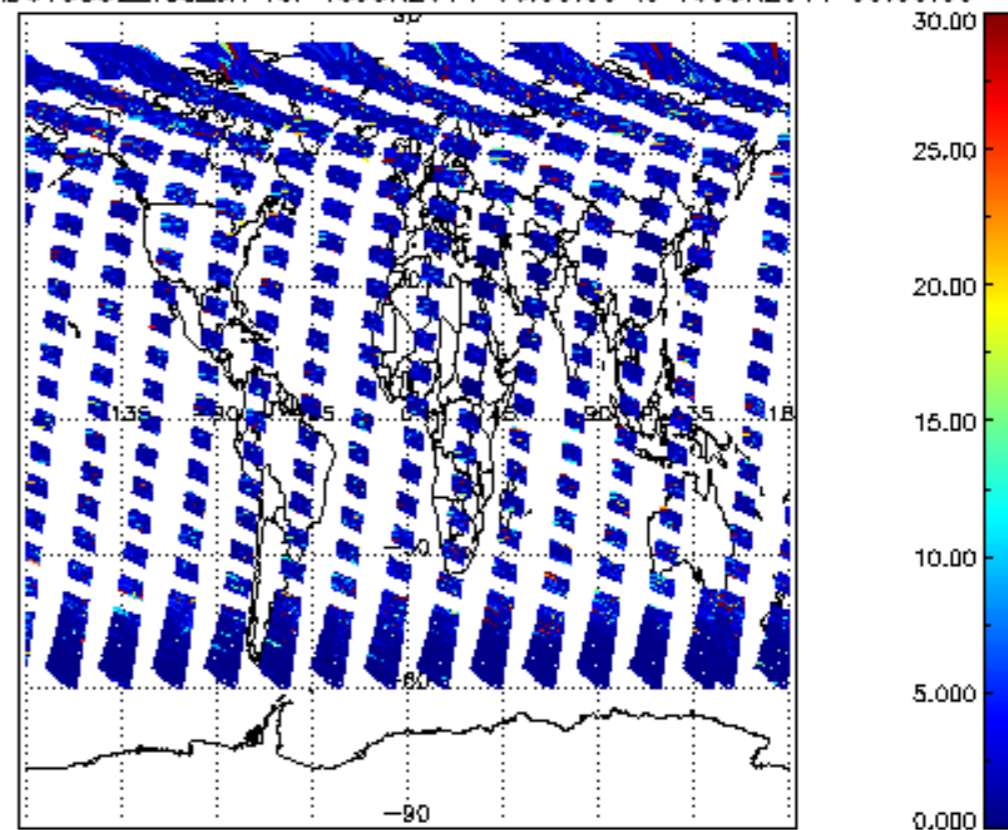




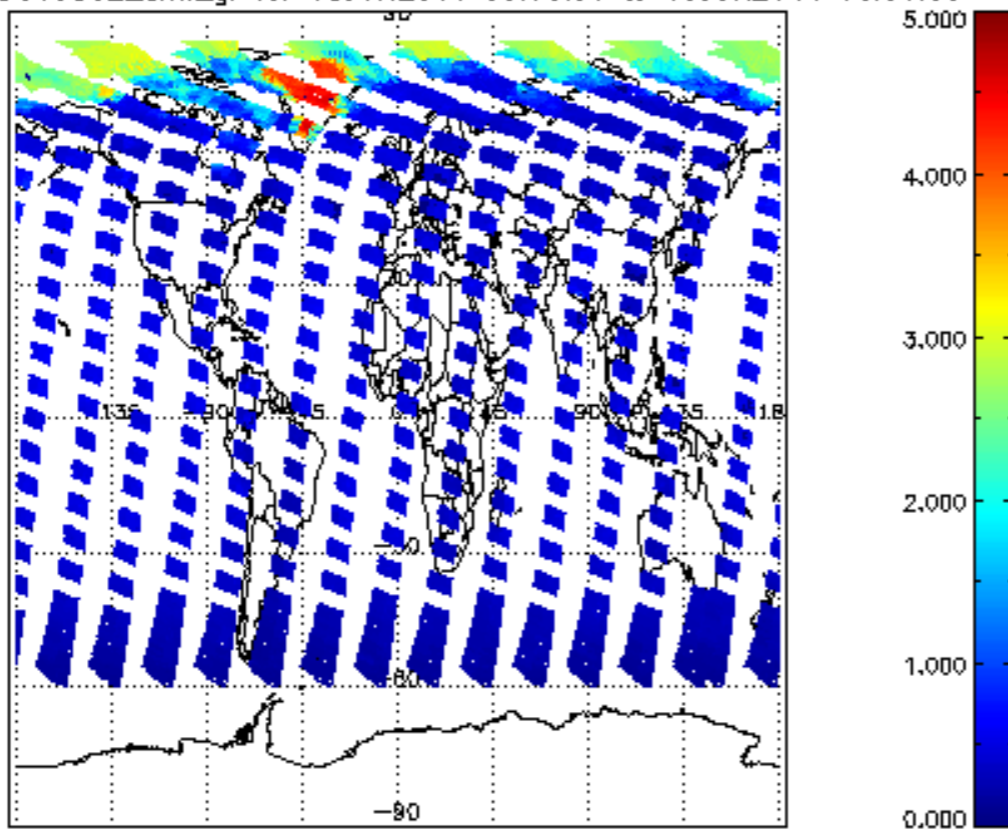
SCIOL2P_NADUV5S02_vcd for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



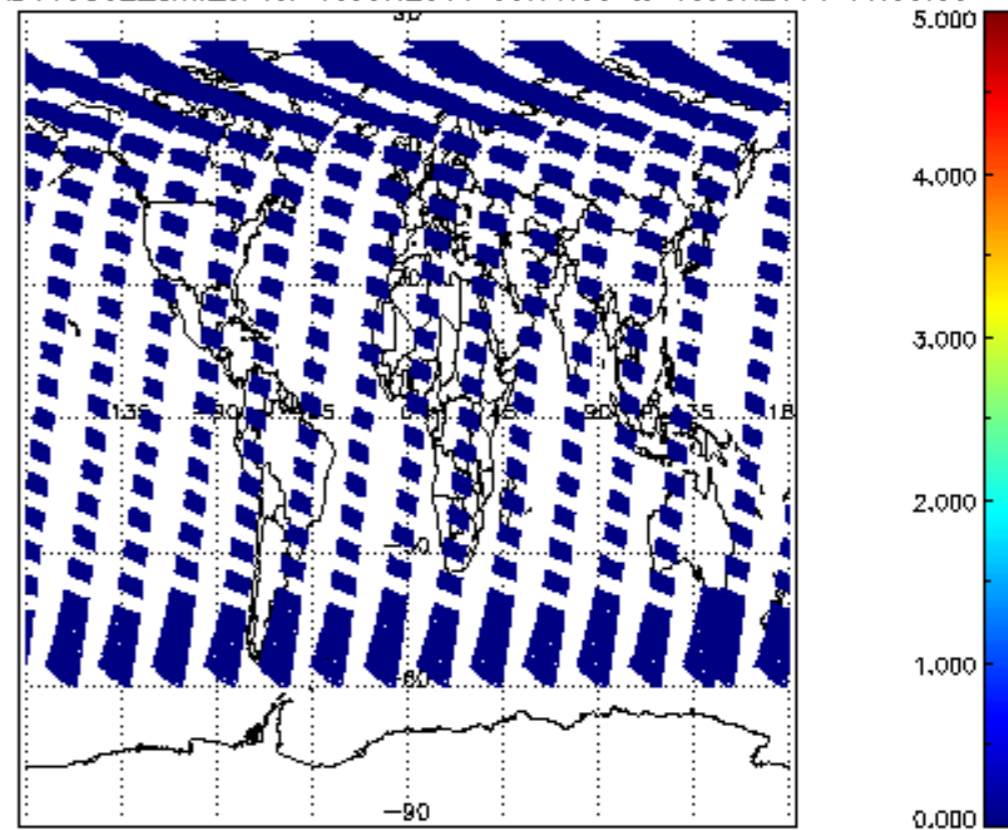
SCIOL2P_NADUV5S02_vcd_err for 18JUN2011 00:00:00 to 19JUN2011 00:00:00

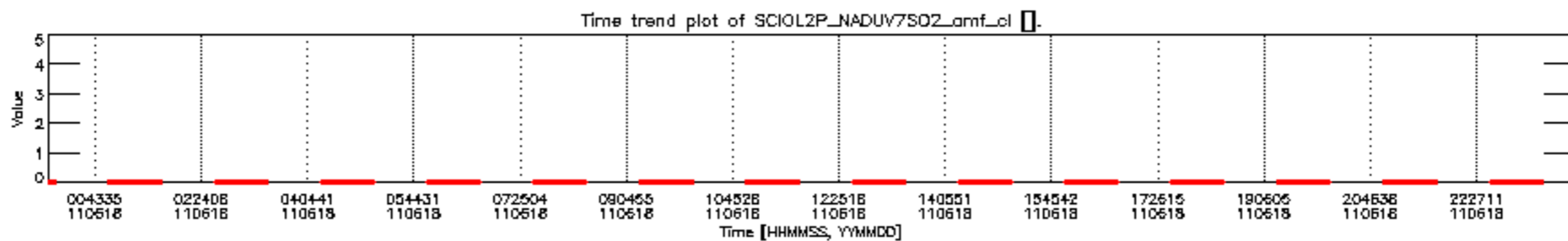
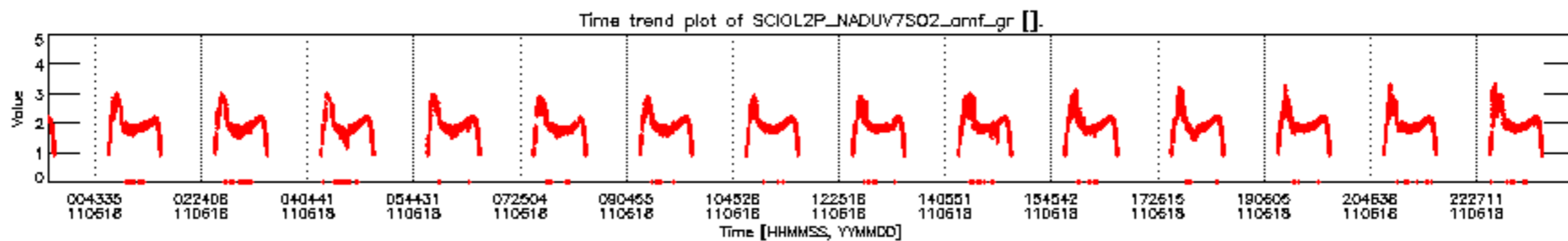
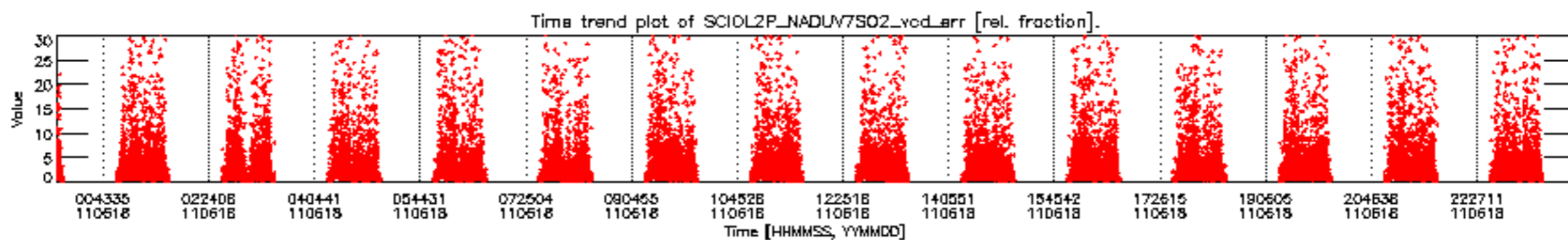
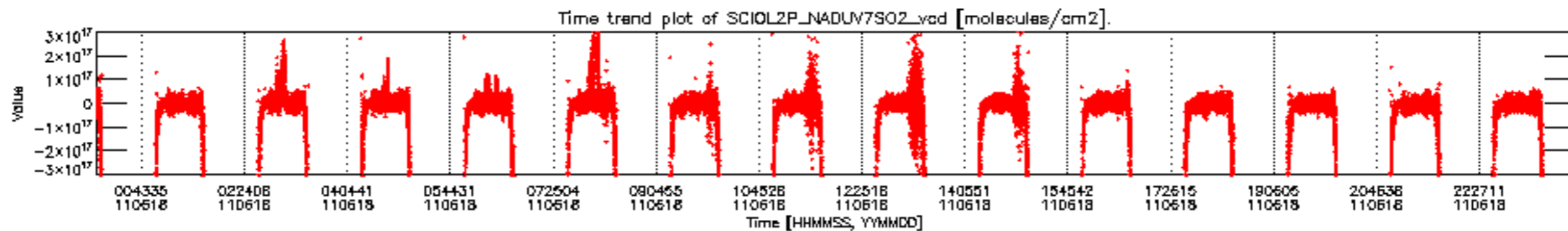


SCIOL2P_NADUV5S02_amf_gr for 18JUN2011 00:00:00 to 19JUN2011 00:00:00

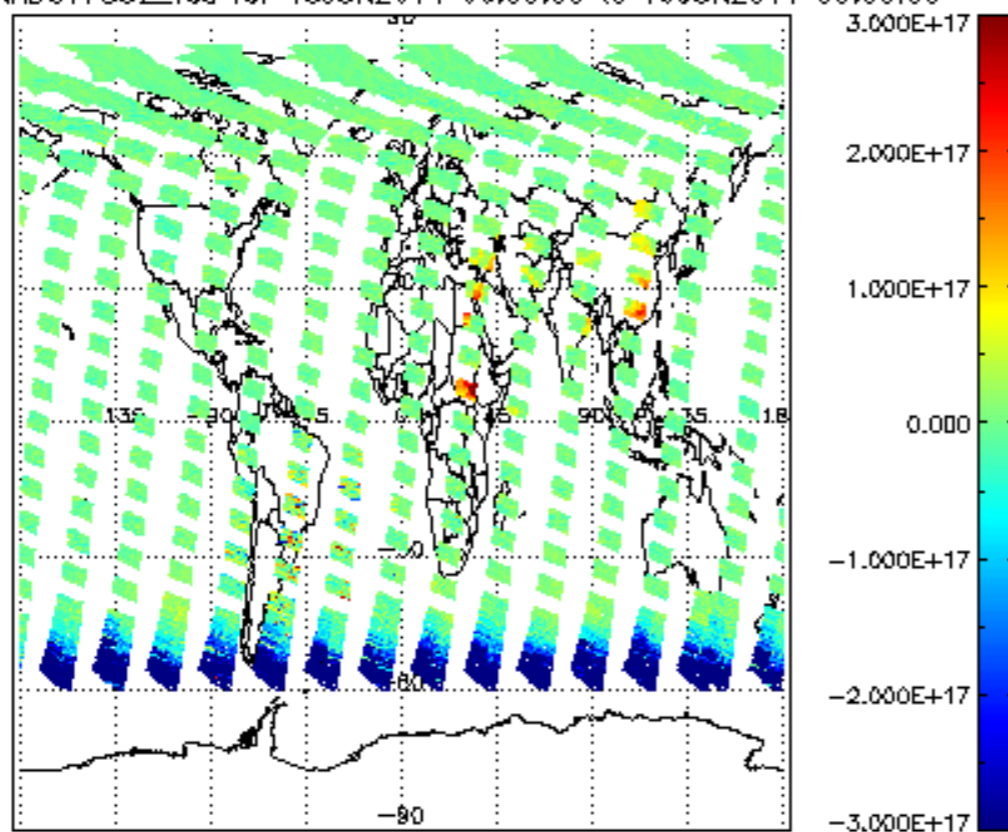


SCIOL2P_NADUV5S02_amf_cl for 18JUN2011 00:00:00 to 19JUN2011 00:00:00

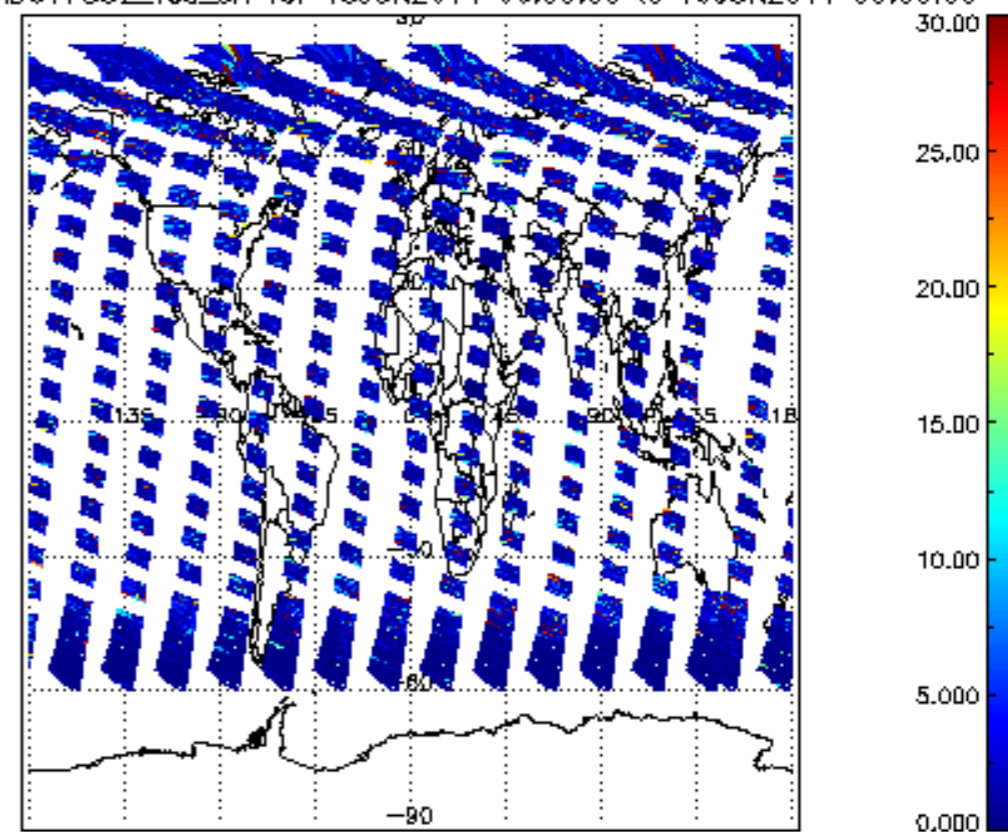




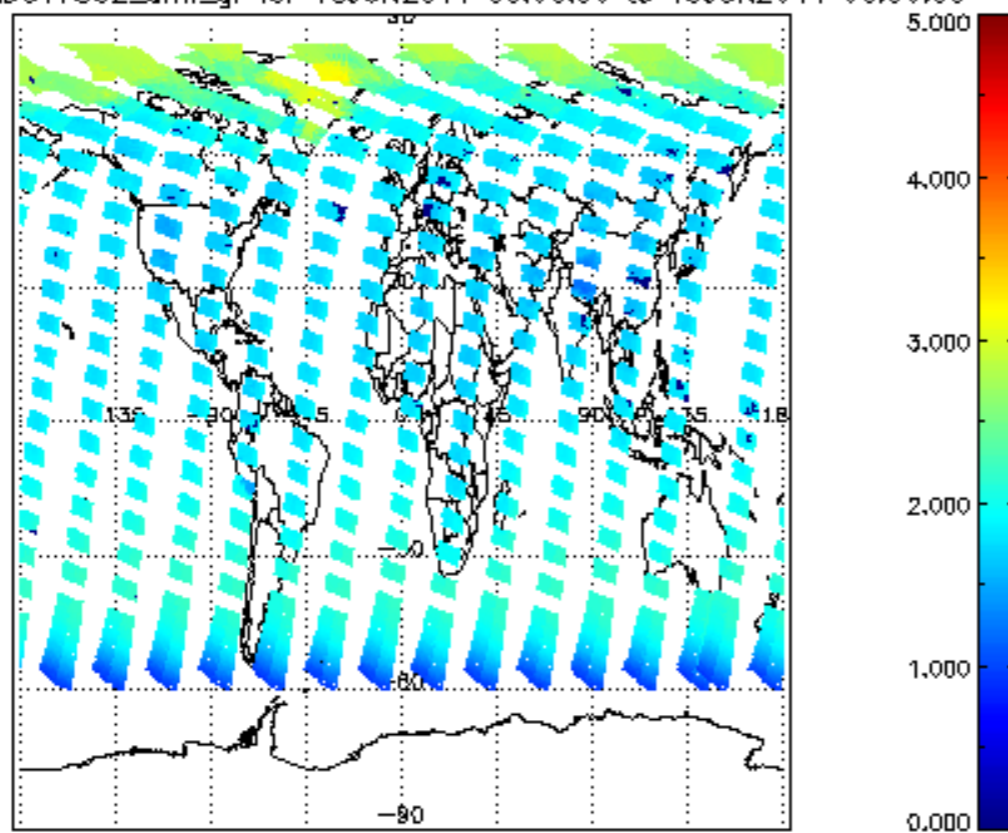
SCIOL2P_NADUV7S02_vcd for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



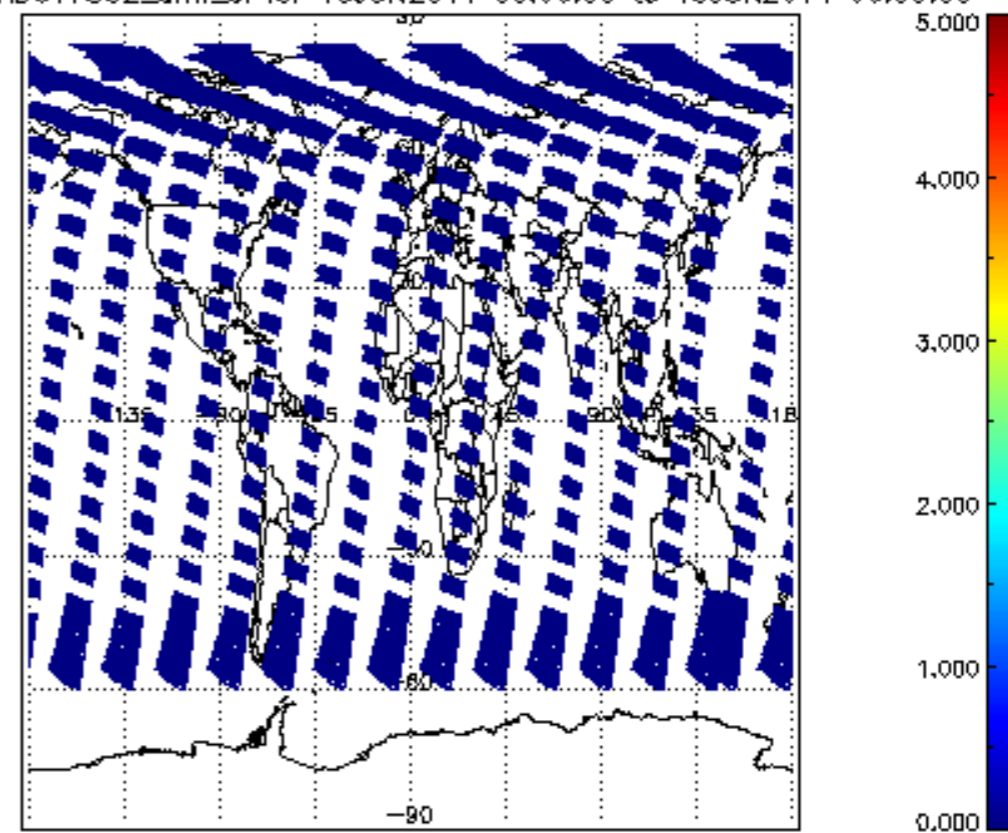
SCIOL2P_NADUV7S02_vcd_err for 18JUN2011 00:00:00 to 19JUN2011 00:00:00

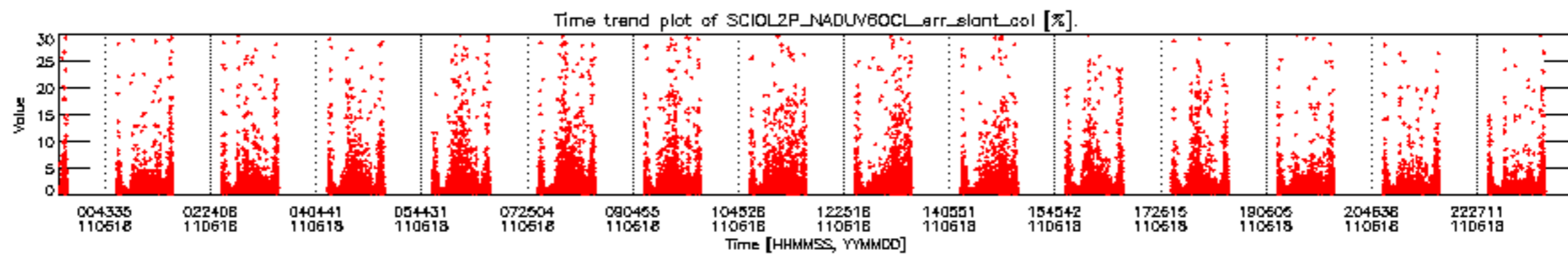
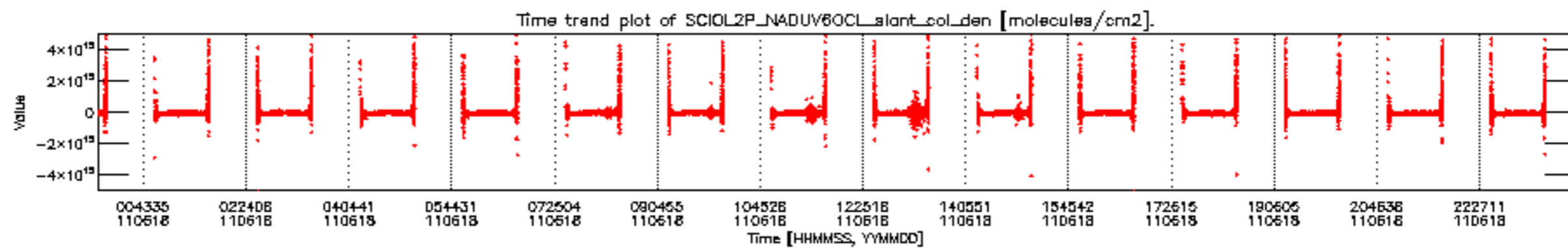


SCIOL2P_NADUV7S02_amf_gr for 18JUN2011 00:00:00 to 19JUN2011 00:00:00

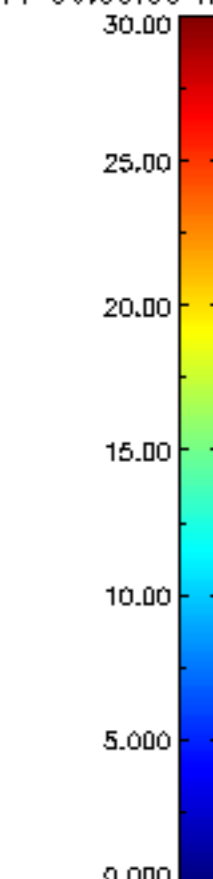
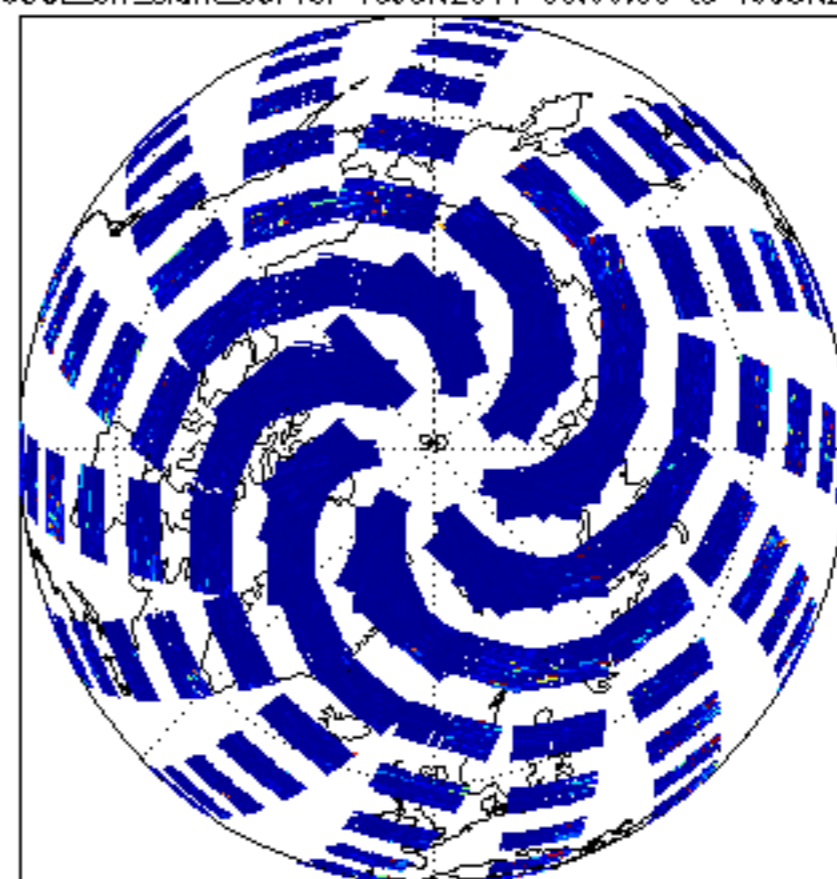
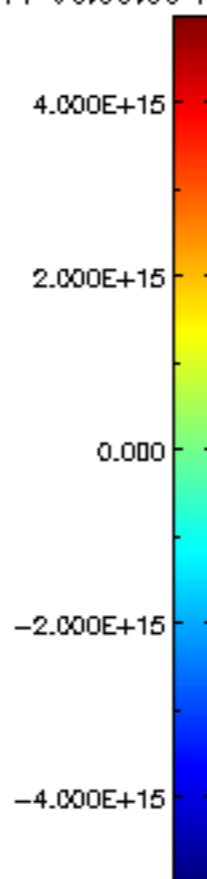
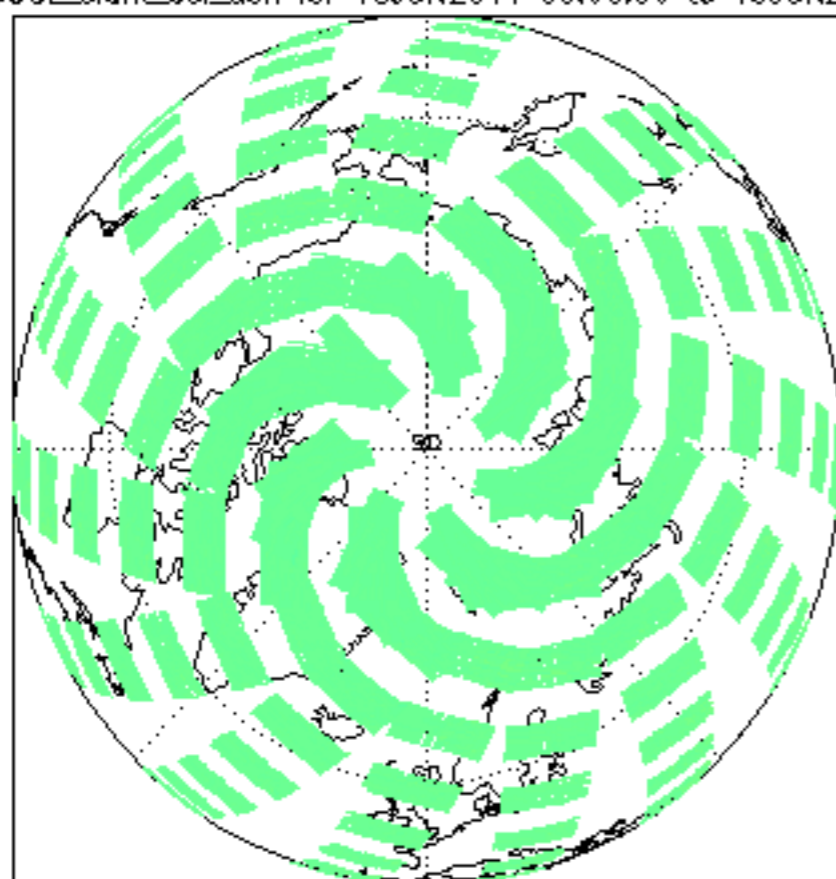


SCIOL2P_NADUV7S02_amf_cl for 18JUN2011 00:00:00 to 19JUN2011 00:00:00

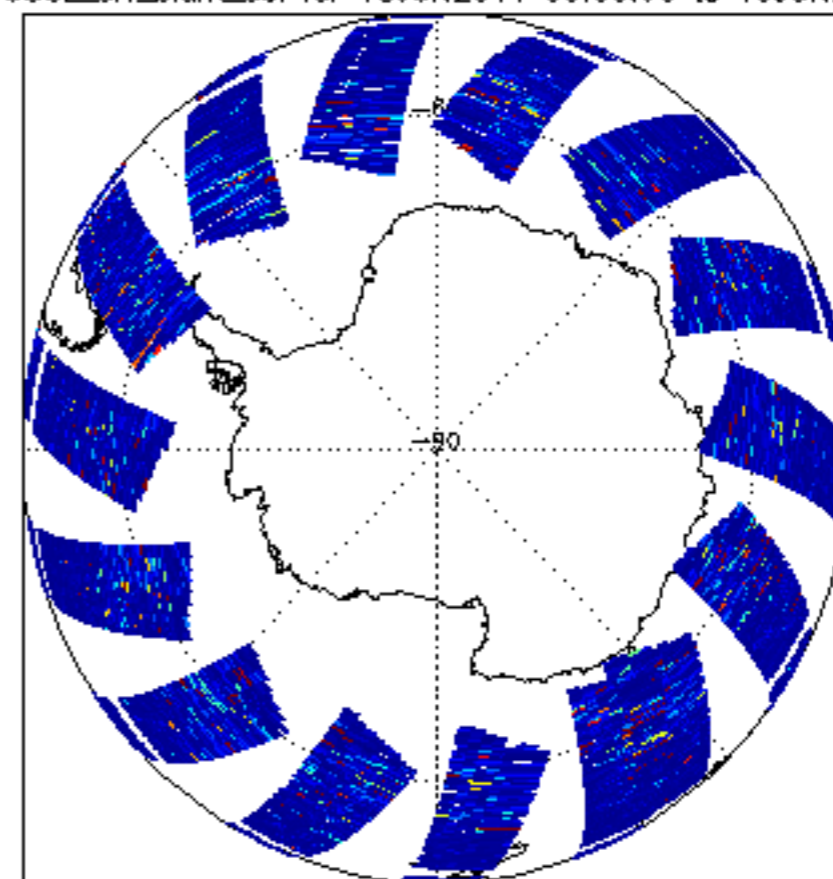
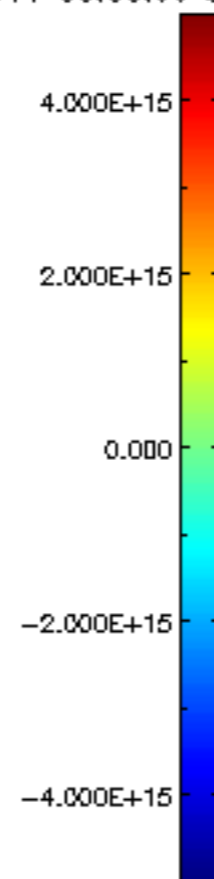
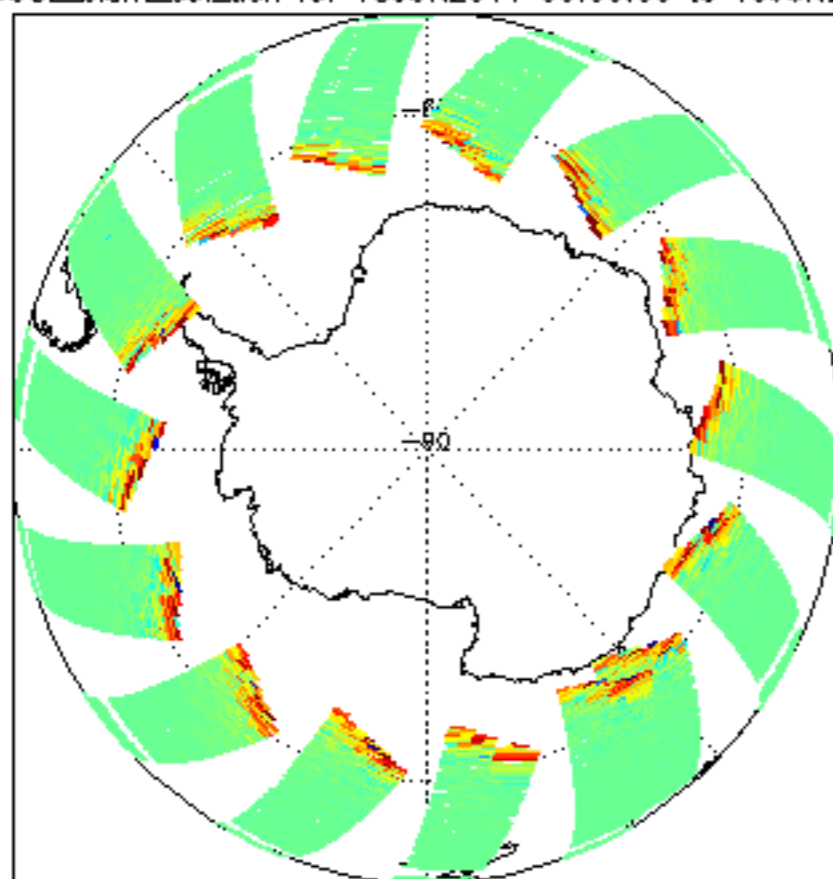


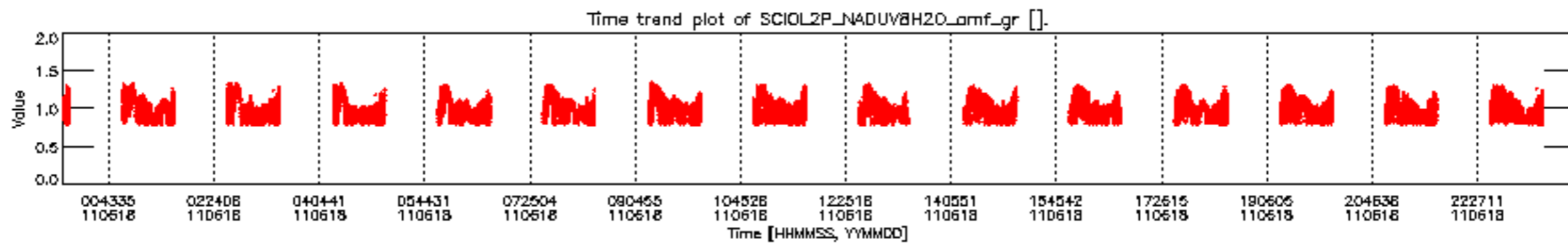
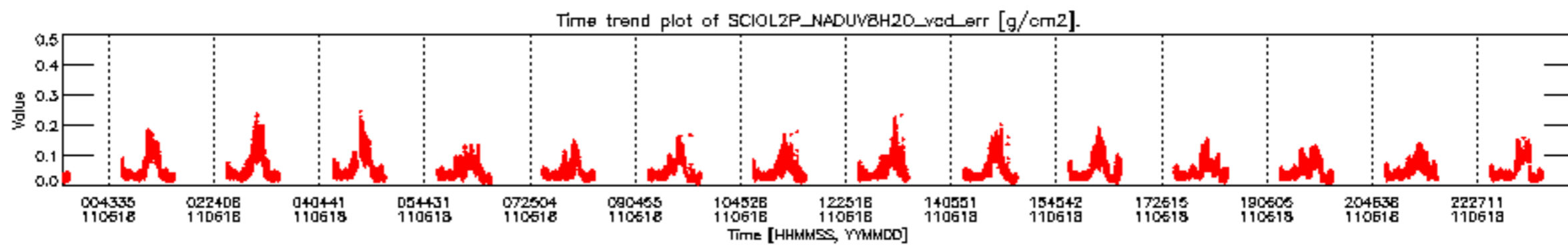
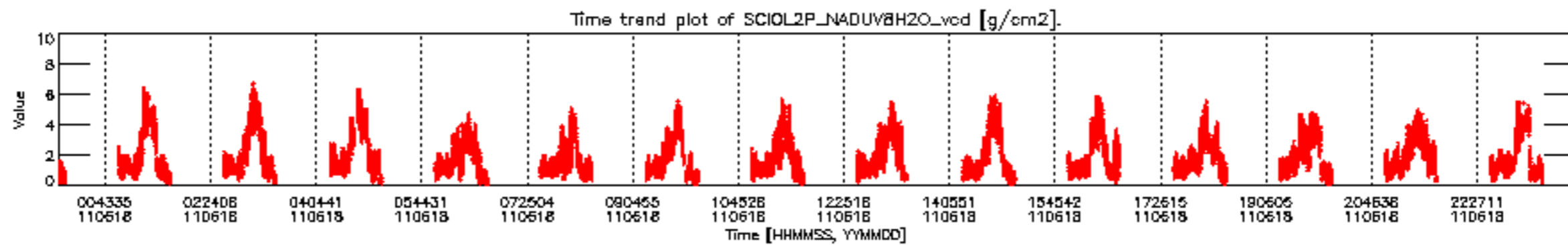


CIOL2P_NADUV60CL_slant_col_den for 18JUN2011 00:00:00 to 19JUN2011 00:00:00 np CIOL2P_NADUV60CL_err_slant_col for 18JUN2011 00:00:00 to 19JUN2011 00:00:00 np

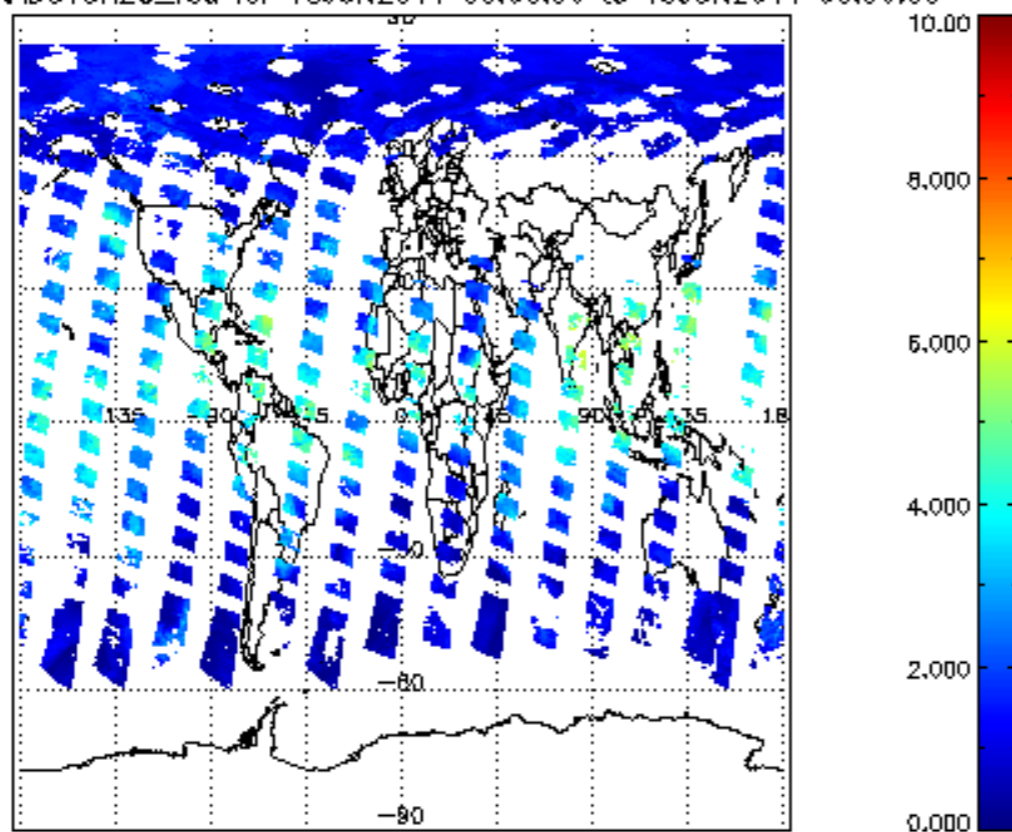


CIOL2P_NADUV60CL_slant_col_den for 18JUN2011 00:00:00 to 19JUN2011 00:00:00 sp iCIOL2P_NADUV60CL_err_slant_col for 18JUN2011 00:00:00 to 19JUN2011 00:00:00 sp

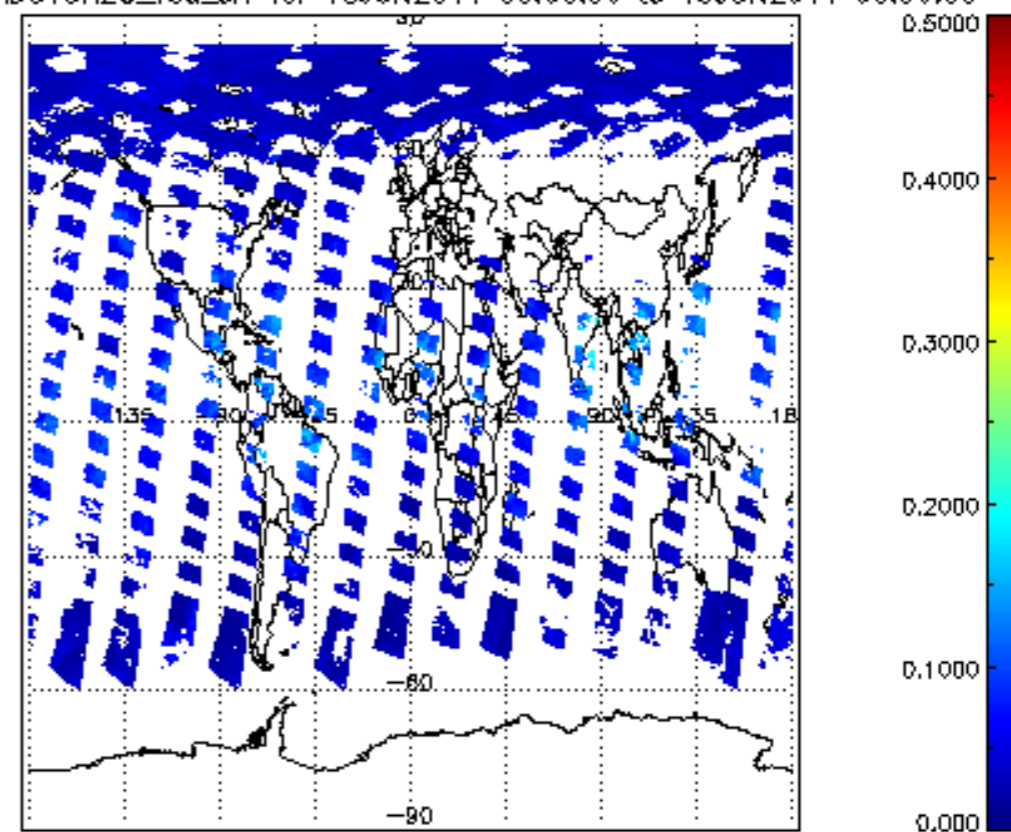




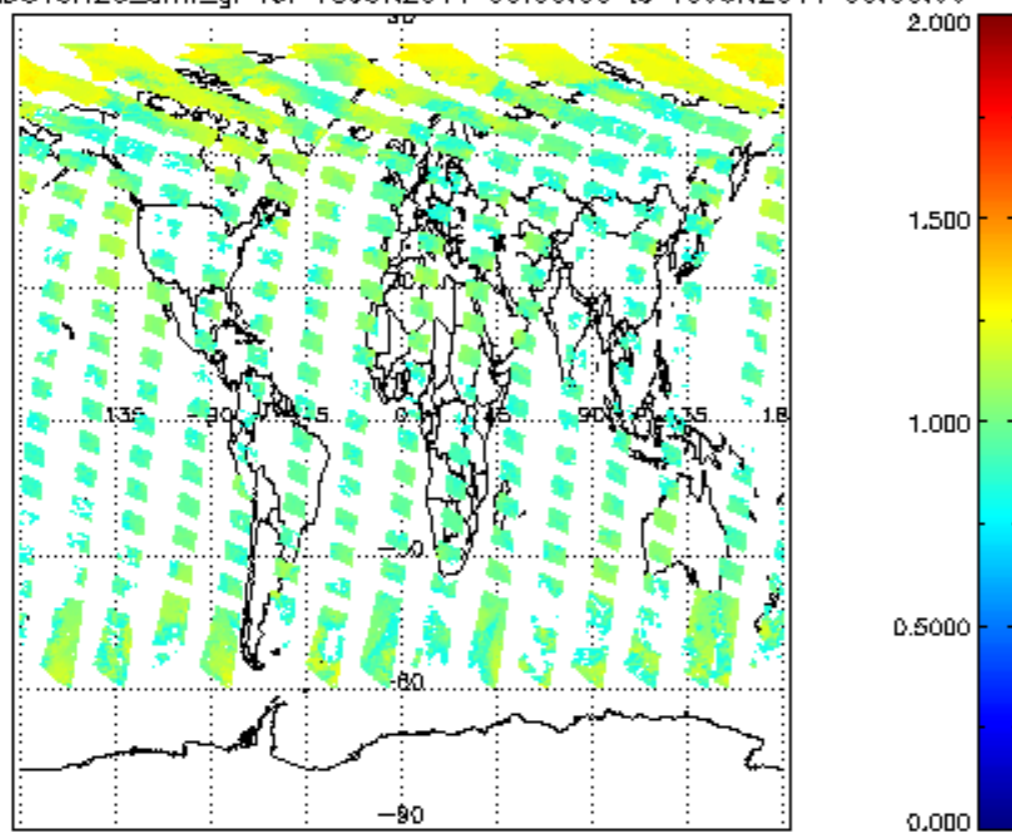
SCIOL2P_NADUV8H2O_vcd for 18JUN2011 00:00:00 to 19JUN2011 00:00:00

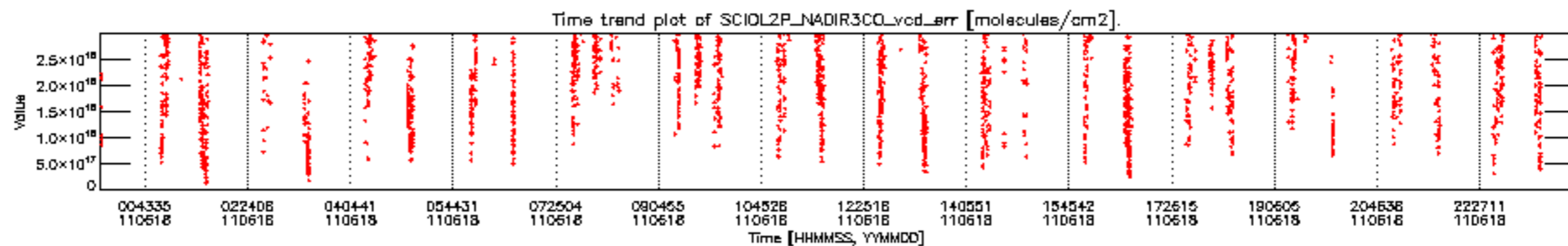
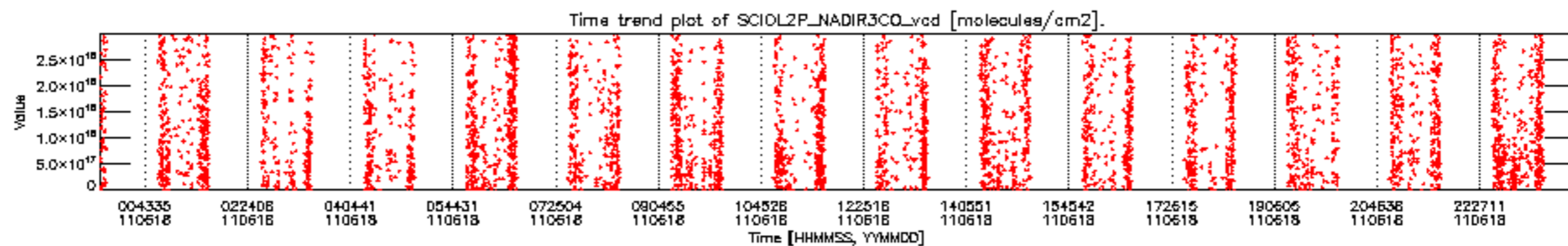


SCIOL2P_NADUV8H2O_vcd_err for 18JUN2011 00:00:00 to 19JUN2011 00:00:00

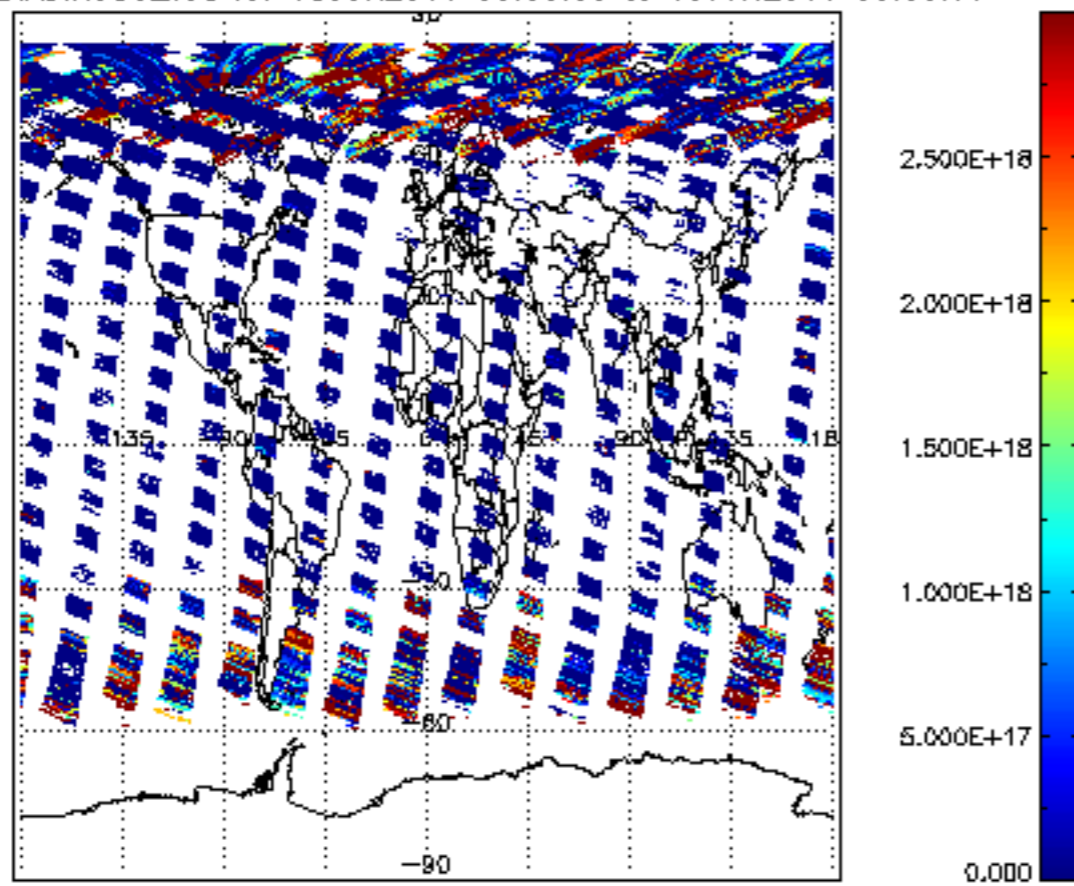


SCIOL2P_NADUV8H2O_amf_gr for 18JUN2011 00:00:00 to 19JUN2011 00:00:00





SCIOL2P_NADIR3CO_vcd for 18JUN2011 00:00:00 to 19JUN2011 00:00:00



SCIOL2P_NADIR3CO_vcd_err for 18JUN2011 00:00:00 to 19JUN2011 00:00:00

