

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	06AUG2011 03:24:22
Data source version	SCIA-OL/5.01-U
Processing scope for products	24JUL2011 00:00:00 to 25JUL2011 00:00:00
Start time of first product within scope	23JUL2011 22:50:54
Stop time of last product within scope	25JUL2011 00:53:17
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__2PUDPA20110723_225054_000035163104_00418_49139_5660.N1	23JUL2011 22:50:54	23JUL2011 23:49:30	0	GOOD
1	SCI_OL__2PUDPA20110724_003108_000035303104_00419_49140_5661.N1	24JUL2011 00:31:08	24JUL2011 01:29:58	0	GOOD
2	SCI_OL__2PUDPA20110724_021122_000035163104_00420_49141_5662.N1	24JUL2011 02:11:22	24JUL2011 03:09:58	0	GOOD
3	SCI_OL__2PUDPA20110724_035136_000035303104_00421_49142_5663.N1	24JUL2011 03:51:36	24JUL2011 04:50:27	0	GOOD
4	SCI_OL__2PUDPA20110724_053150_000035163104_00422_49143_5664.N1	24JUL2011 05:31:50	24JUL2011 06:30:27	0	GOOD

5	SCI_OL__2PUDPA20110724_071205_000035303104_00423_49144_5665.N1	24JUL2011 07:12:05	24JUL2011 08:10:55	0	GOOD
6	SCI_OL__2PUDPA20110724_085219_000035163104_00424_49145_5666.N1	24JUL2011 08:52:19	24JUL2011 09:50:55	0	GOOD
7	SCI_OL__2PUDPA20110724_103233_000035303104_00425_49146_5670.N1	24JUL2011 10:32:33	24JUL2011 11:31:23	0	GOOD
8	SCI_OL__2PUDPA20110724_121247_000035163104_00426_49147_5668.N1	24JUL2011 12:12:47	24JUL2011 13:11:23	0	GOOD
9	SCI_OL__2PUDPA20110724_135301_000035303104_00427_49148_5671.N1	24JUL2011 13:53:01	24JUL2011 14:51:52	0	GOOD
10	SCI_OL__2PUDPA20110724_153315_000035163104_00428_49149_5672.N1	24JUL2011 15:33:15	24JUL2011 16:31:52	0	GOOD
11	SCI_OL__2PUDPA20110724_171340_000035303104_00429_49150_5674.N1	24JUL2011 17:13:40	24JUL2011 18:12:31	0	GOOD
12	SCI_OL__2PUDPA20110724_185355_000035163104_00430_49151_5667.N1	24JUL2011 18:53:55	24JUL2011 19:52:31	0	GOOD
13	SCI_OL__2PUDPA20110724_203358_000004043104_00431_49152_5673.N1	24JUL2011 20:33:58	24JUL2011 20:40:43	0	GOOD
14	SCI_OL__2PUDPA20110724_221412_000035163105_00001_49153_5675.N1	24JUL2011 22:14:12	24JUL2011 23:12:49	0	GOOD
15	SCI_OL__2PUDPA20110724_235427_000035303105_00002_49154_5676.N1	24JUL2011 23:54:27	25JUL2011 00:53:17	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: 154821

Total number of cloud data DSRs with good quality flag (=0): 154821 (100.0 %)

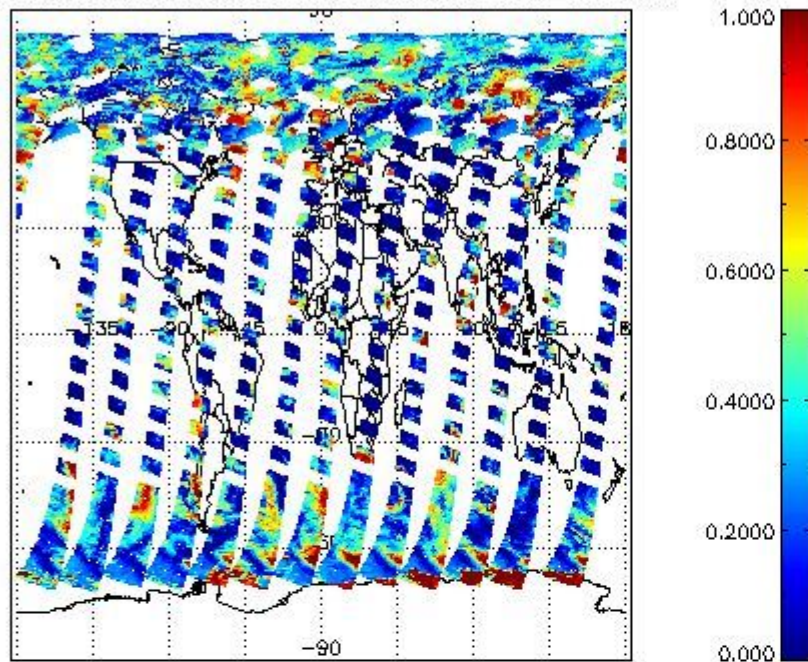
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	154821	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	154821	0.16446	0.12500	0.12500	0.25000	0.058100	s
CL_FRAC	154821	0.31237	0.26291	0.0000	1.0000	0.27367	
CL_FRAC_ERR	154821	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	154821	5.2629	4.0000	4.0000	8.0000	1.8592	
PMD_READ_CL[0]	154821	0.24548	0.0000	0.0000	8.0000	1.0307	-
PMD_READ_CL[1]	154821	1.4671	0.0000	0.0000	8.0000	2.5699	-
CL_TOP_HEIGHT	118779	3.4236	1.4950	0.0000	17.000	3.6736	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	118779	63.862	100.00	0.0000	101.00	43.647	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	154821	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	154821	11001110	11000100	11000000	11100000	3674.7	
AERO_ABSO_IND	154821	0.20988	0.0000	0.0000	13.563	0.48398	
AERO_IND_DIAG	154821	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	154821	01010000	00000000	00000000	11000000	24244.	

Time and geolocation plots:

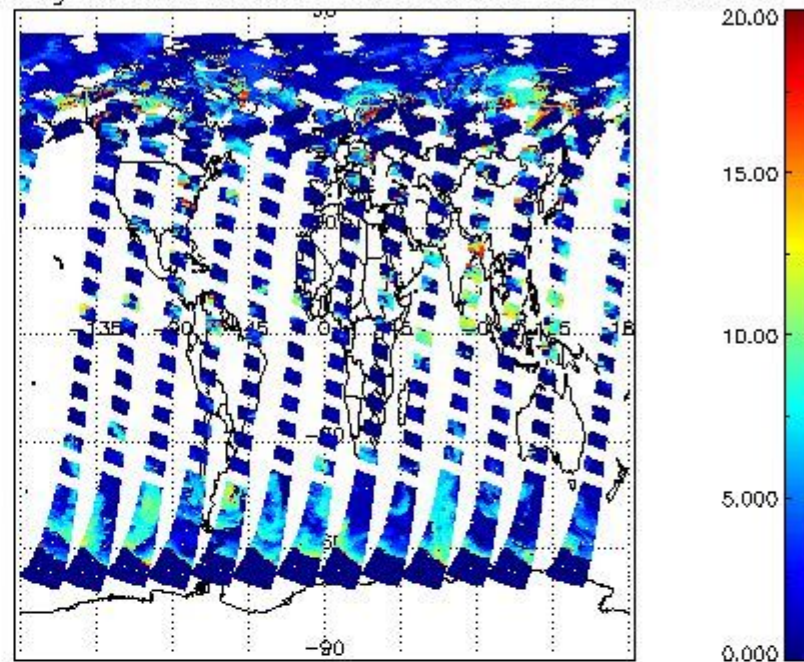
Plots are available for the following parameters:

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

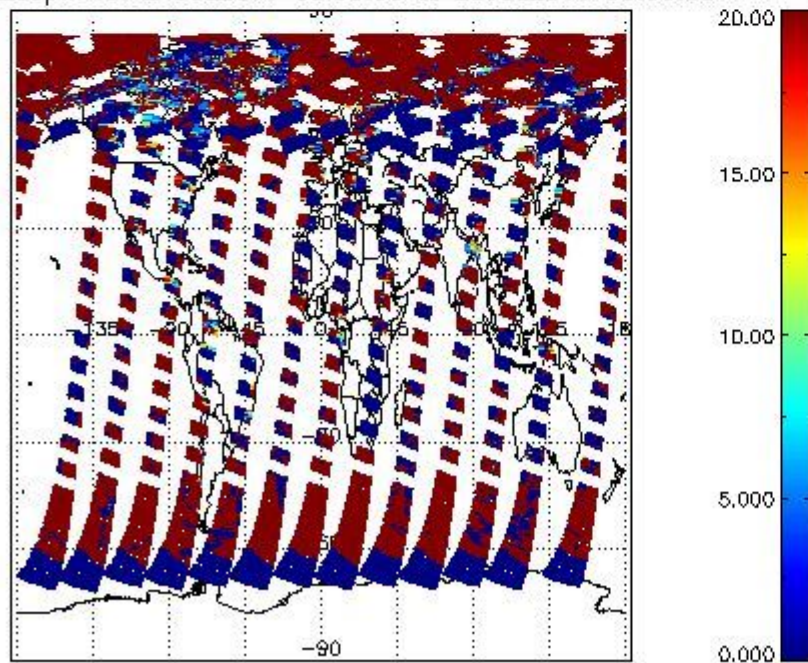
cL_frac for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



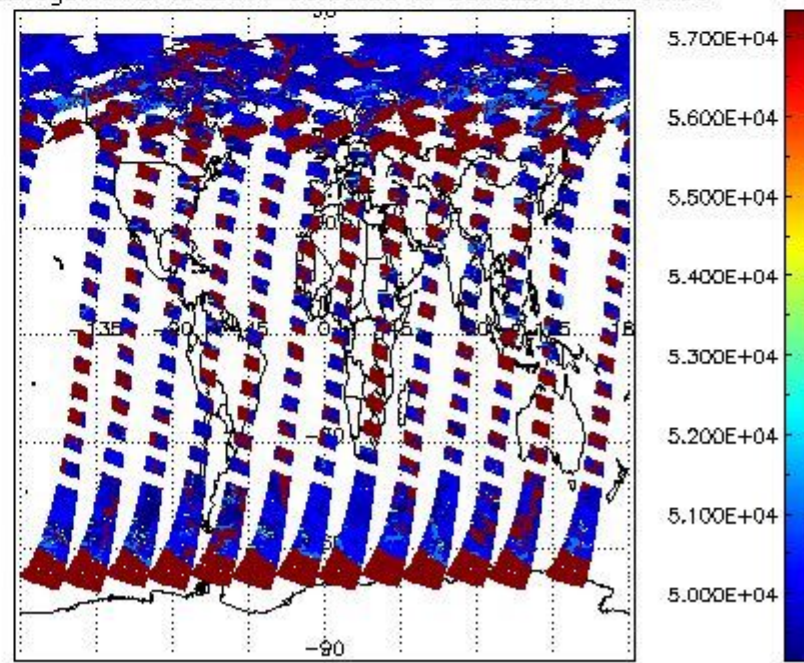
cL_top_height for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



cL_opt_depth for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



cloud_flags for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



2.2.2 Nadir

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

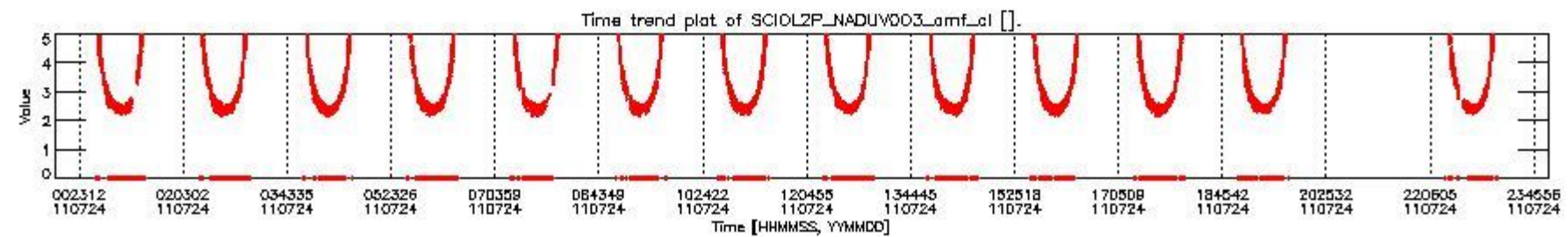
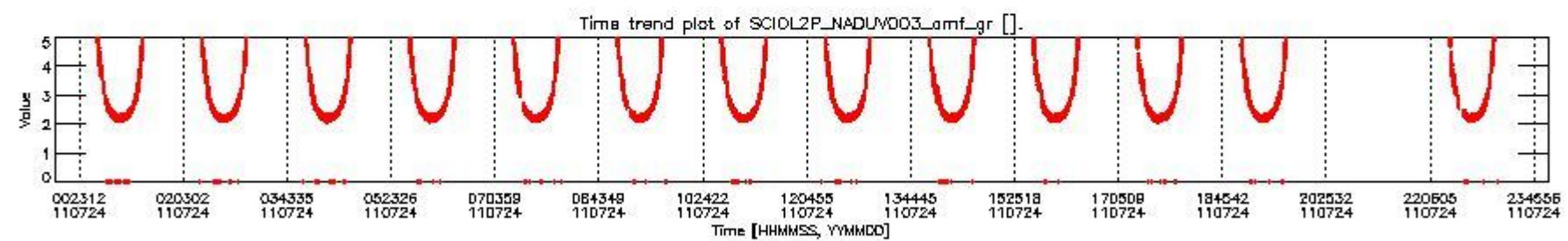
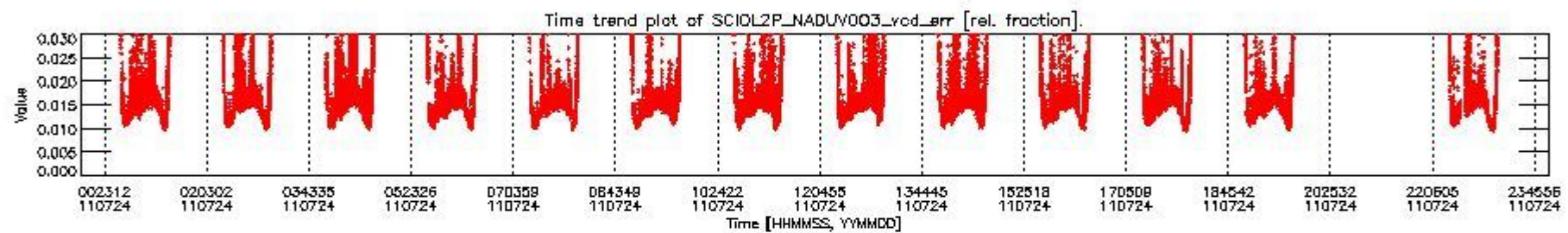
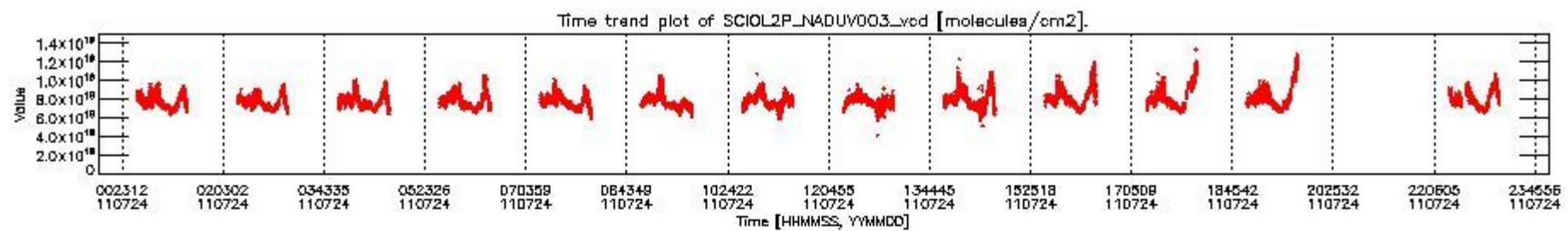
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

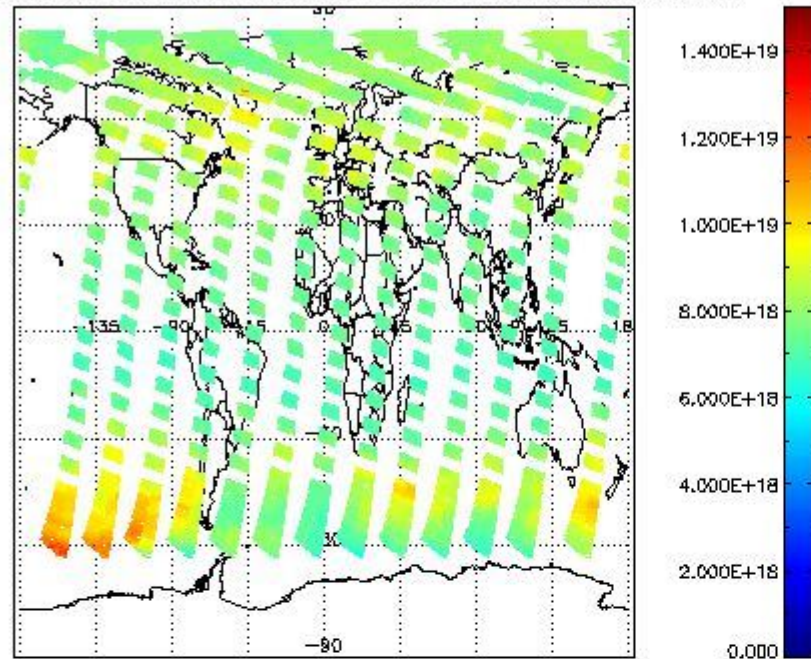
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

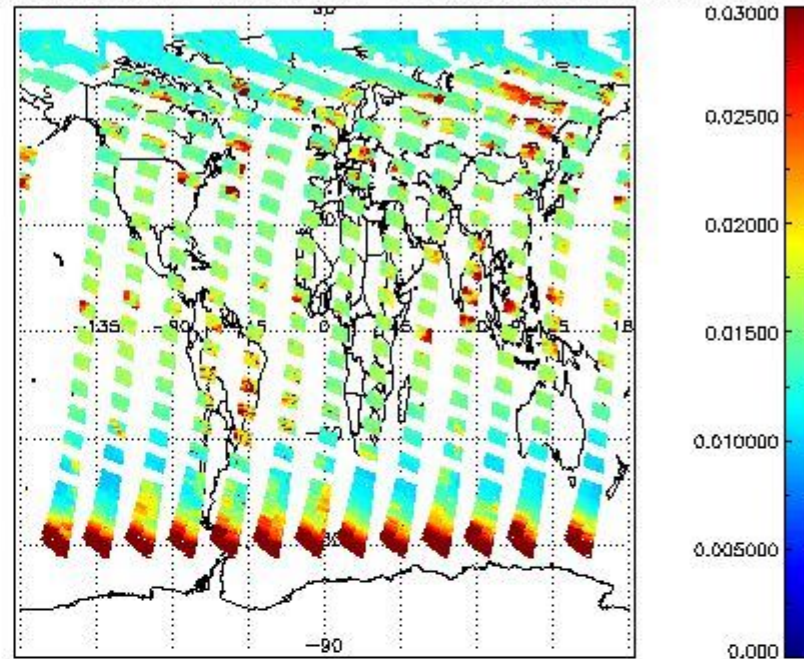
2.2.2.1 O3 (UV0)



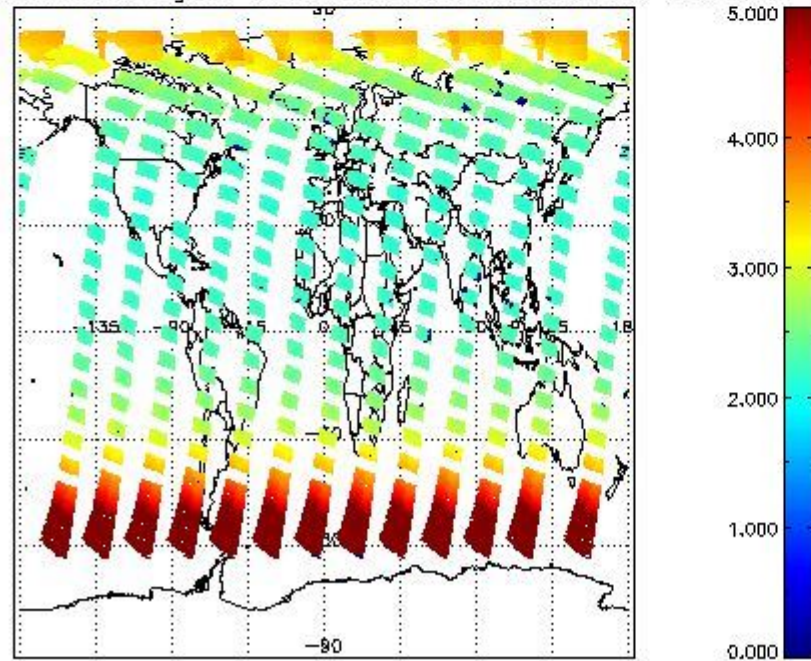
SCIOL2P_NADUV003_vcd for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



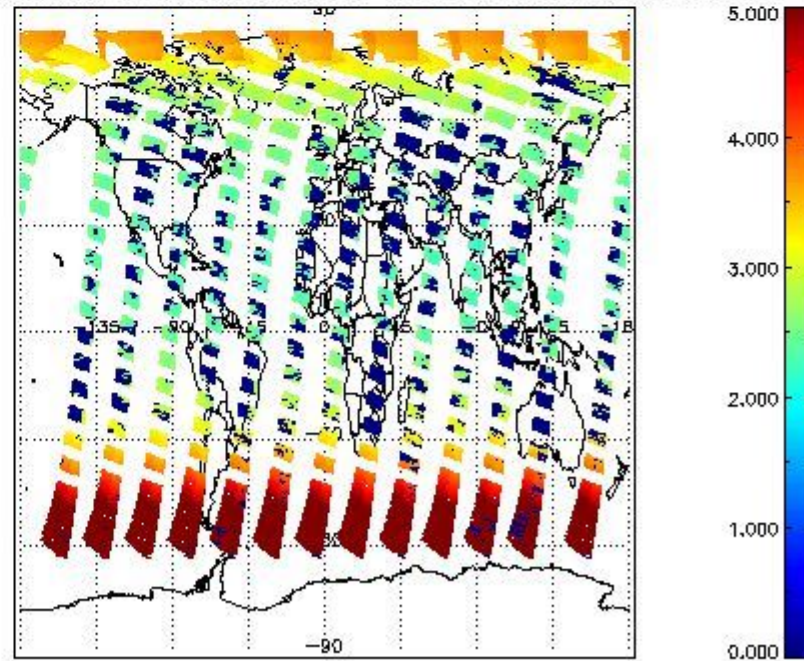
SCIOL2P_NADUV003_vcd_err for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



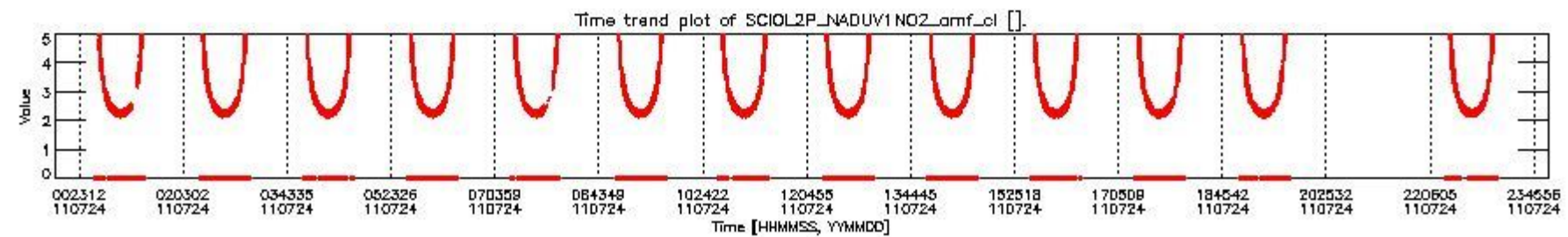
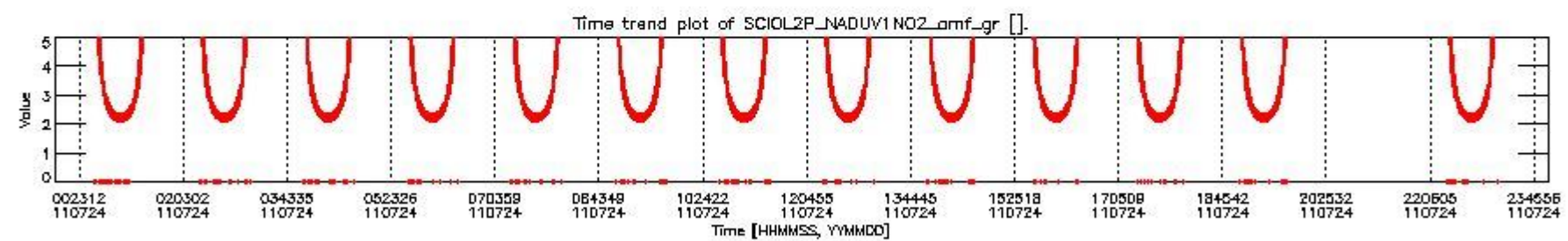
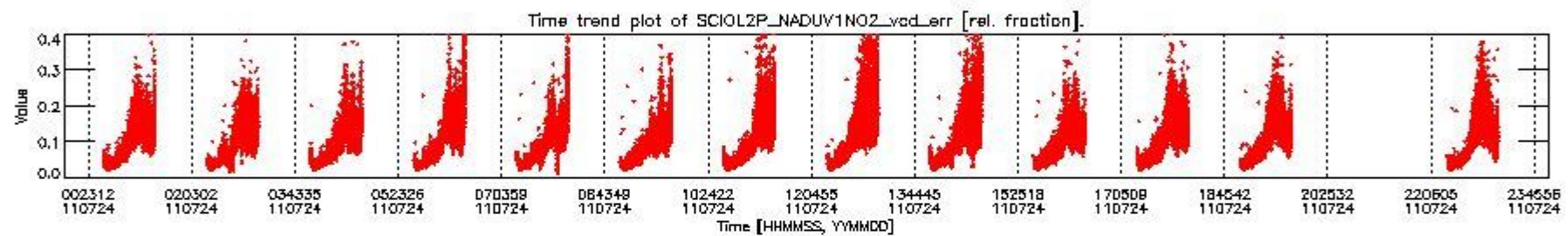
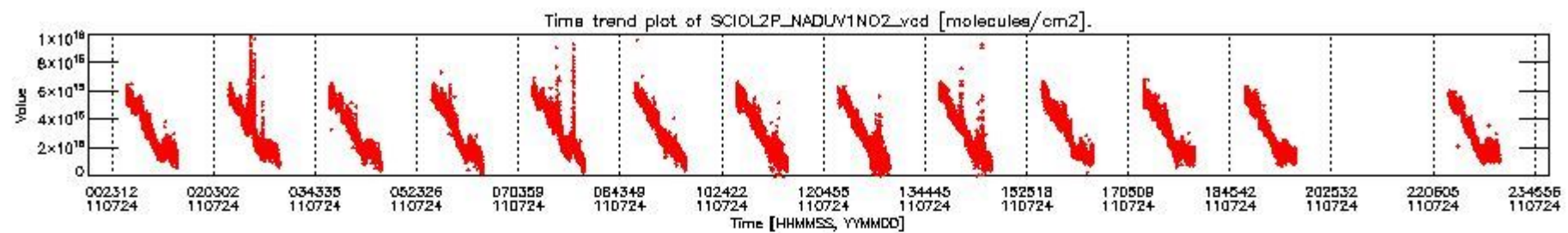
SCIOL2P_NADUV003_amf_gr for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

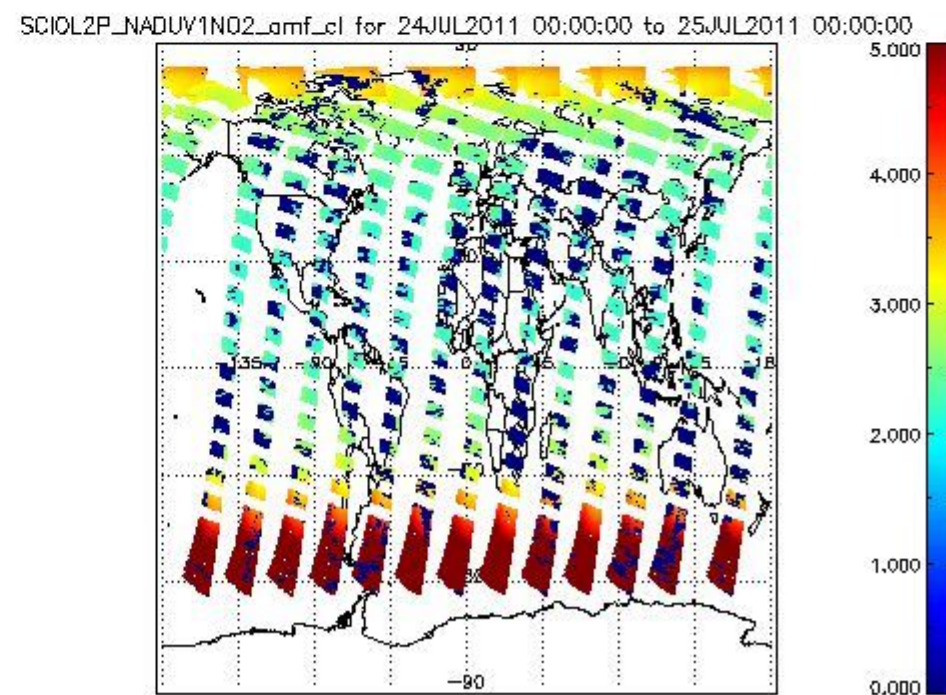
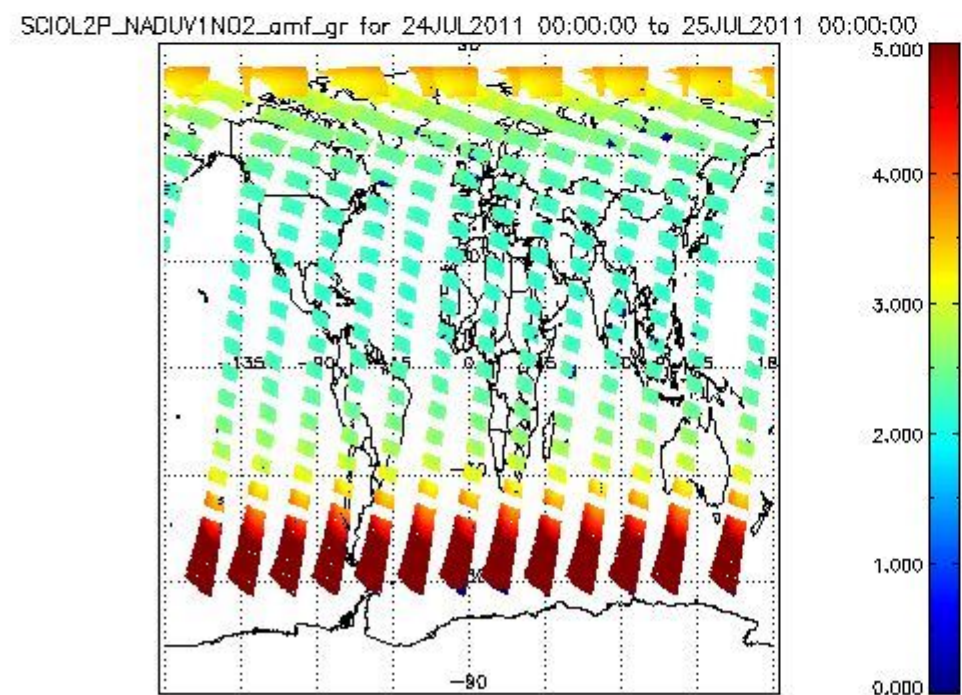
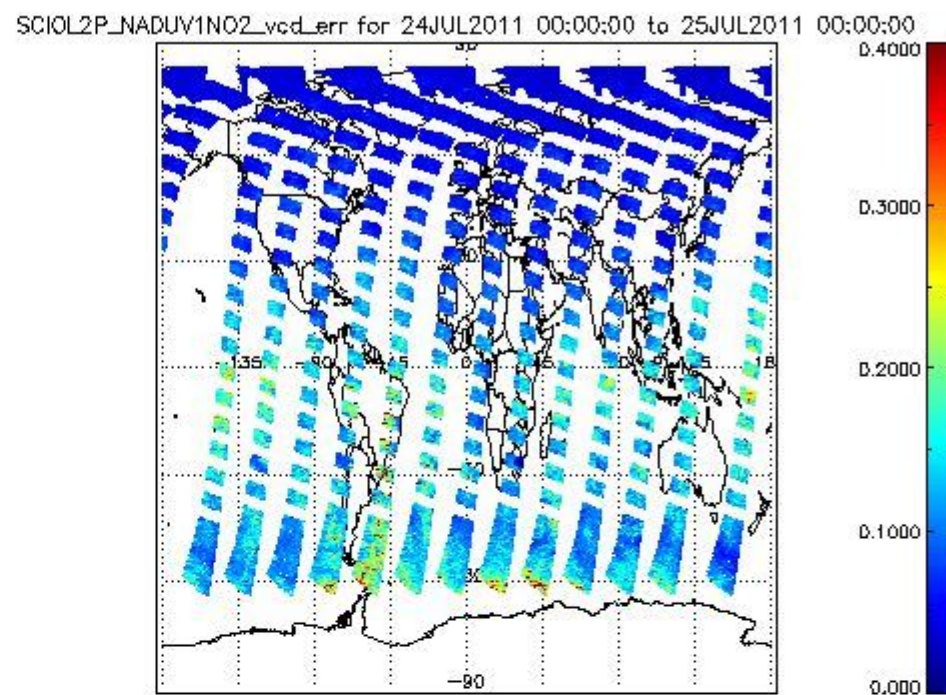
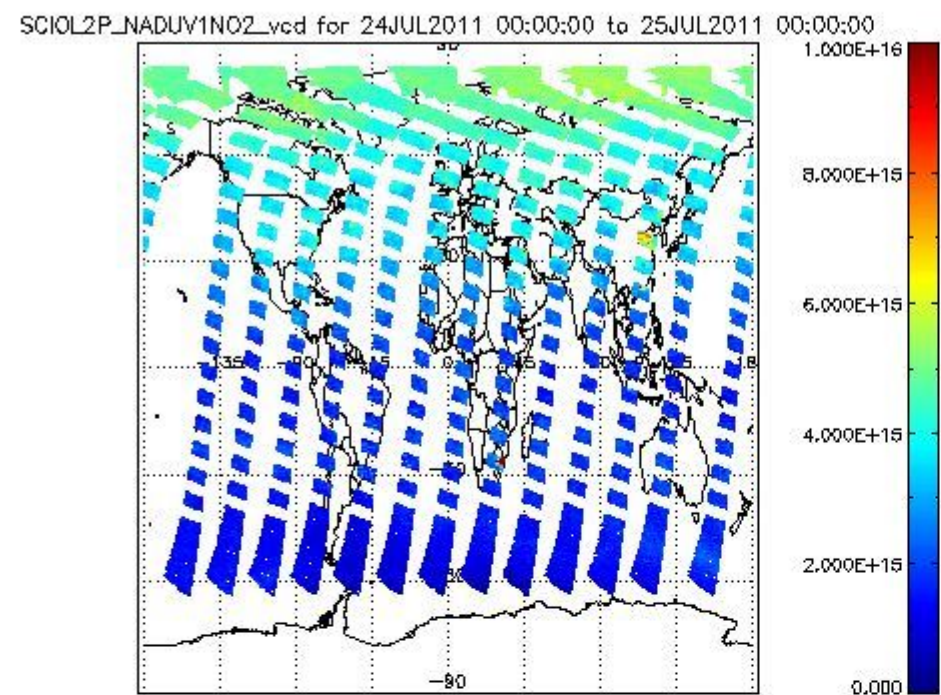


SCIOL2P_NADUV003_amf_cl for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

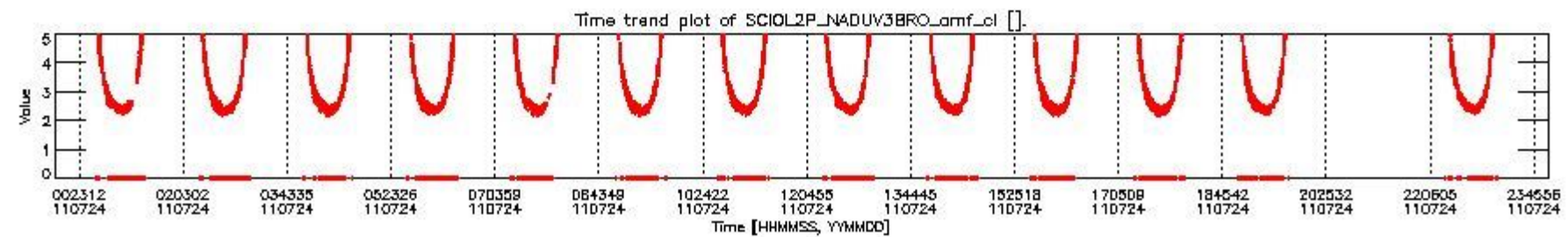
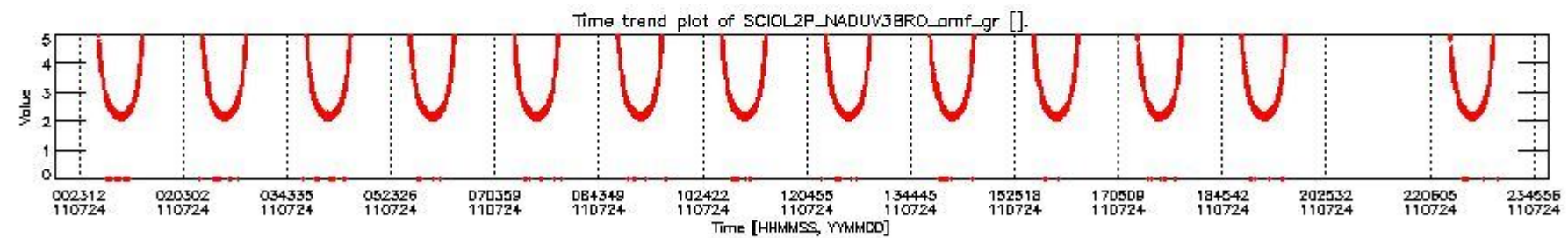
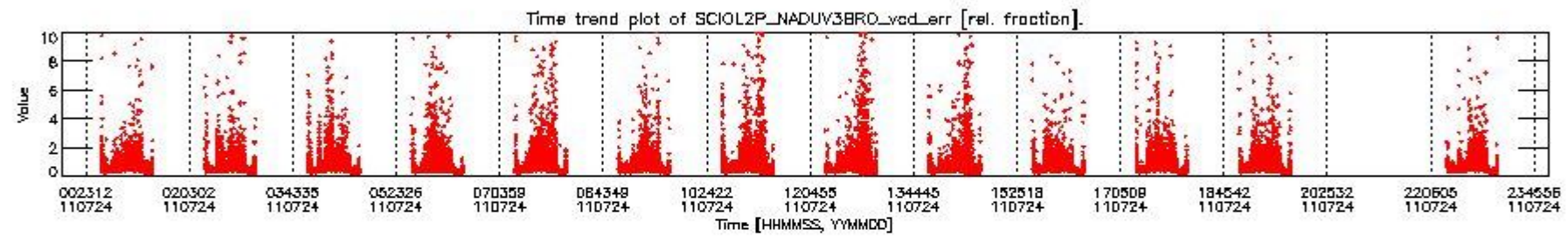
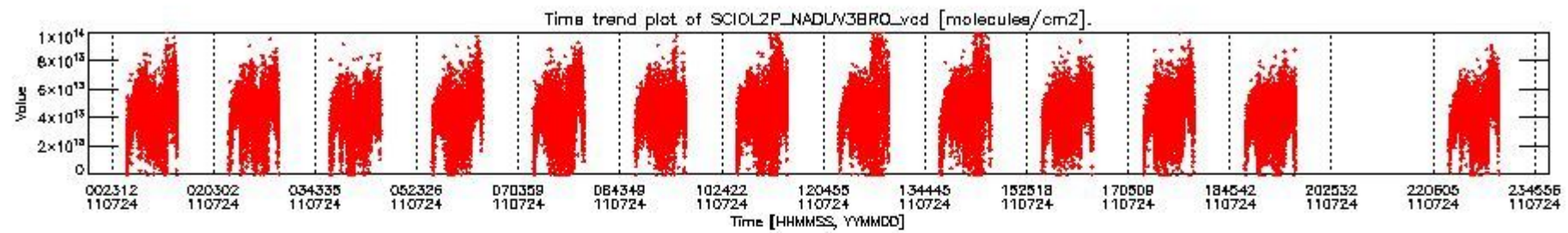


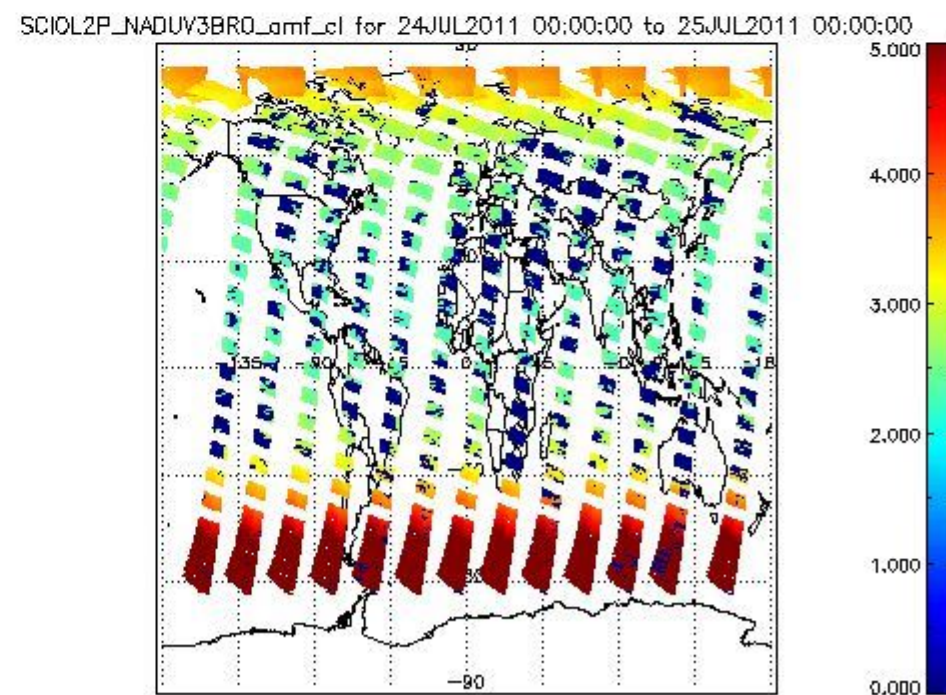
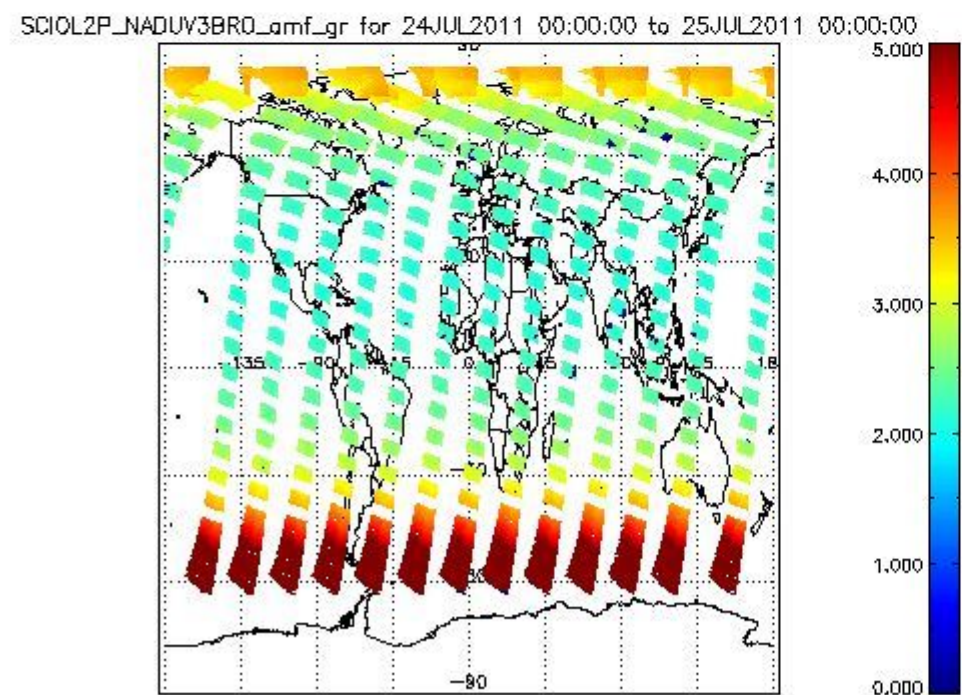
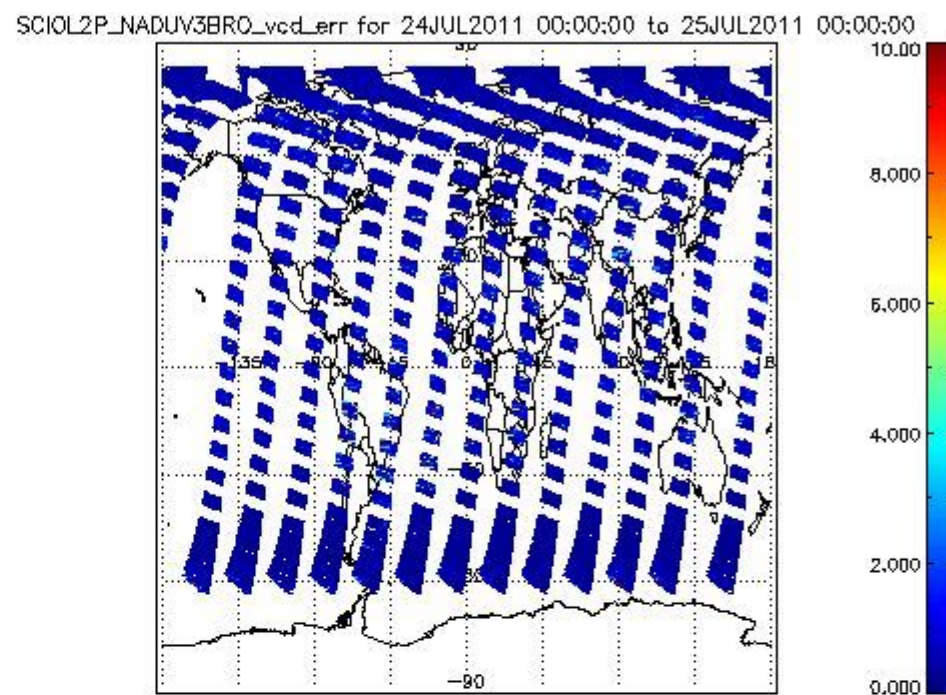
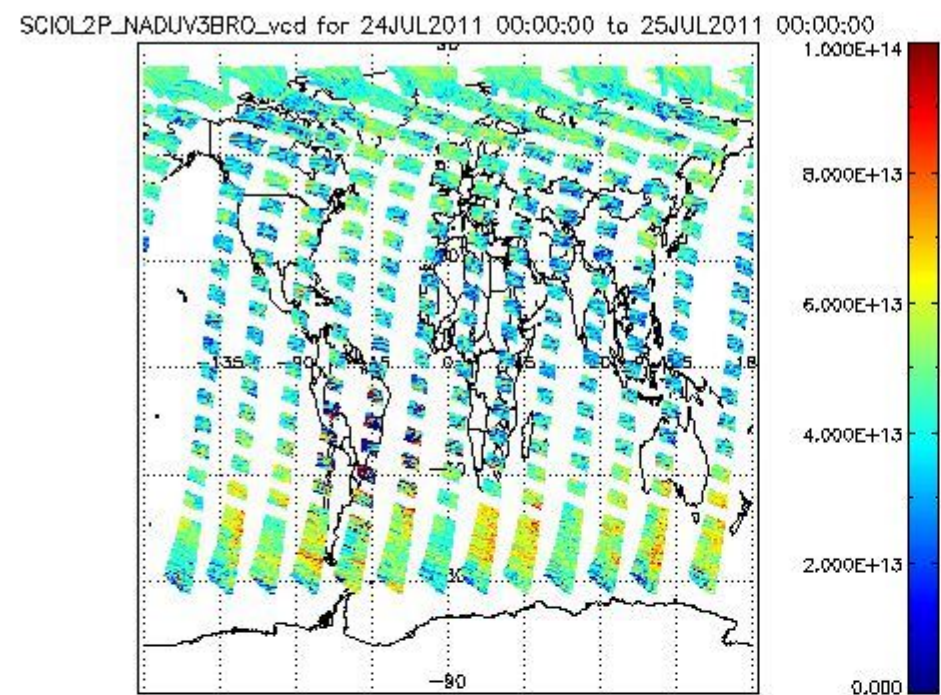
2.2.2.2 NO2 (UV1)



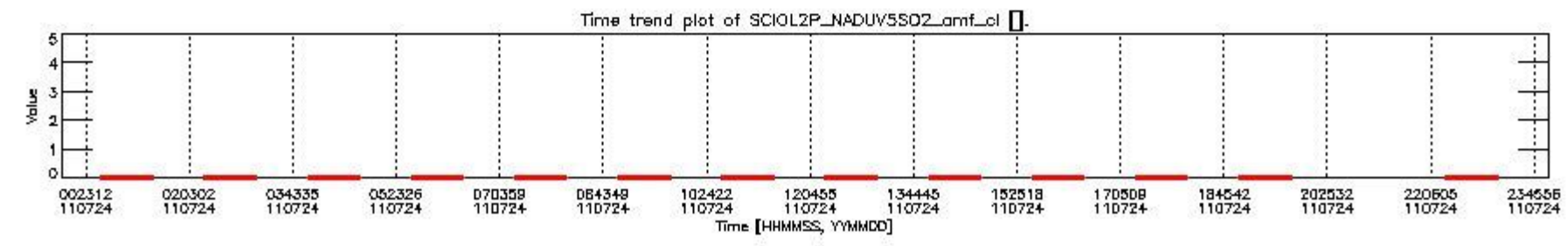
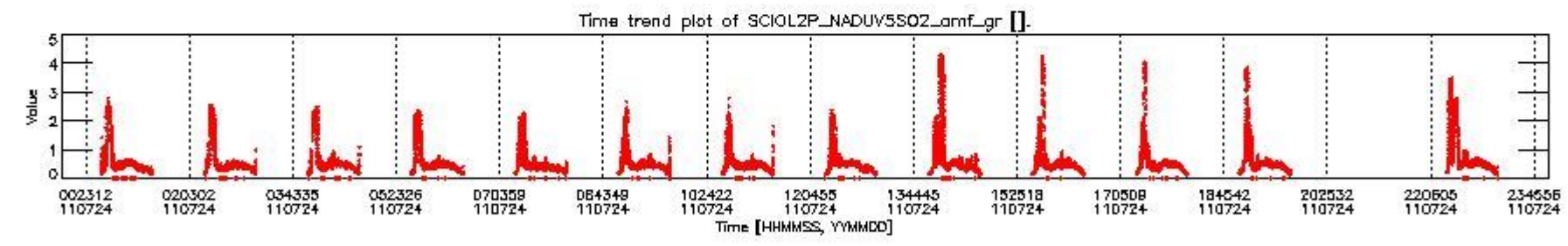
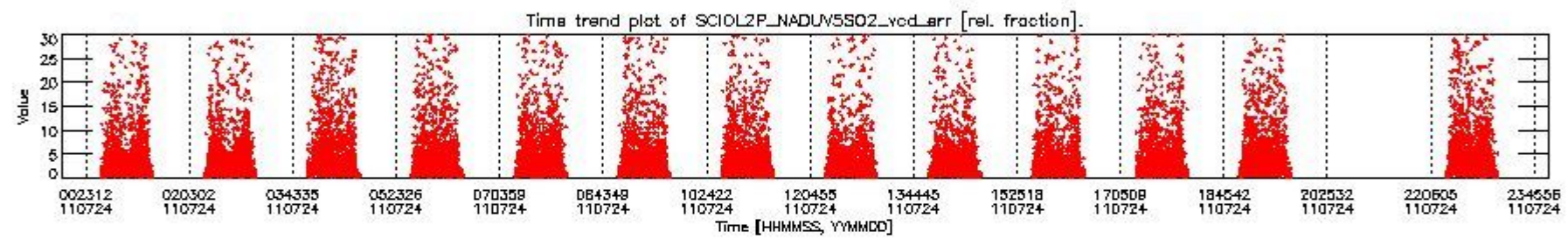
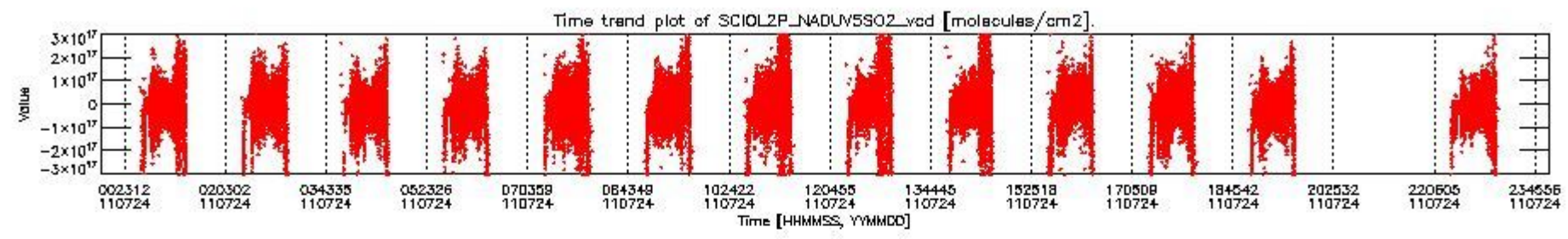


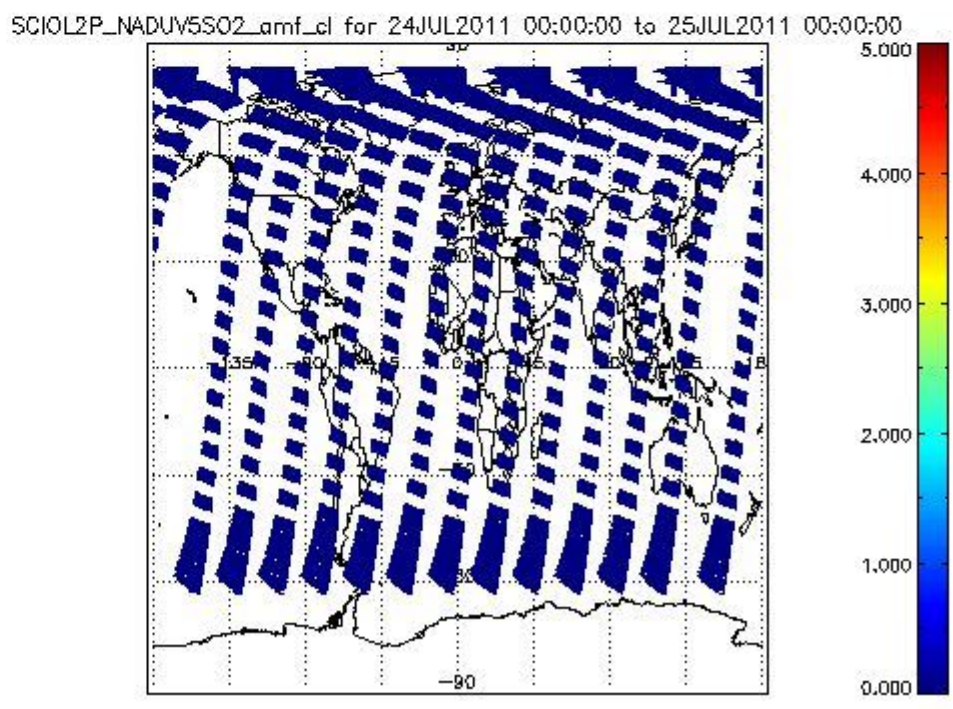
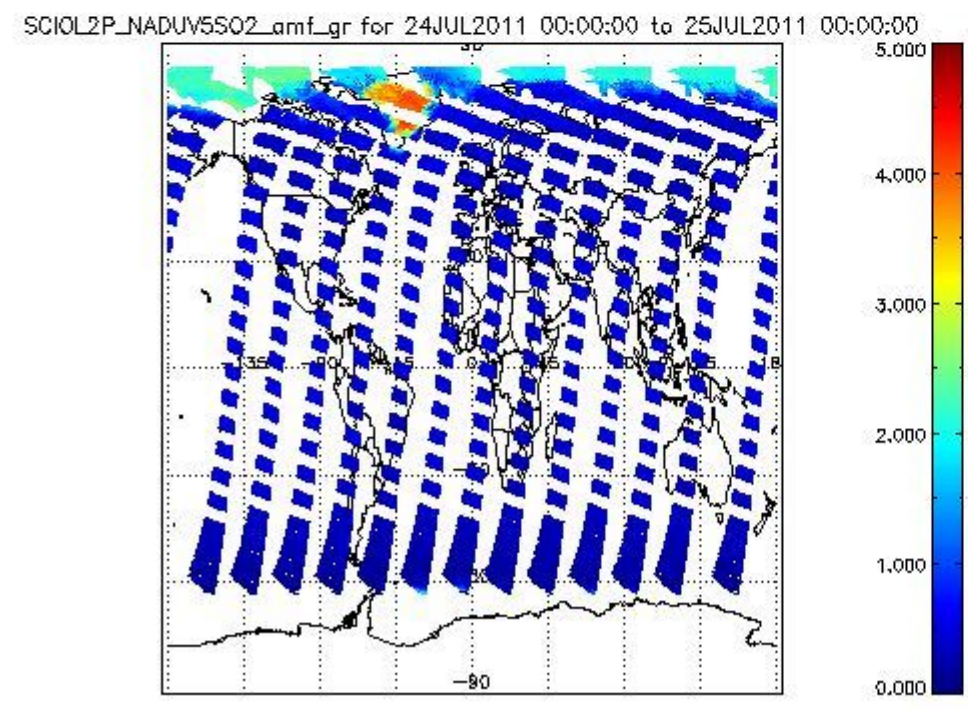
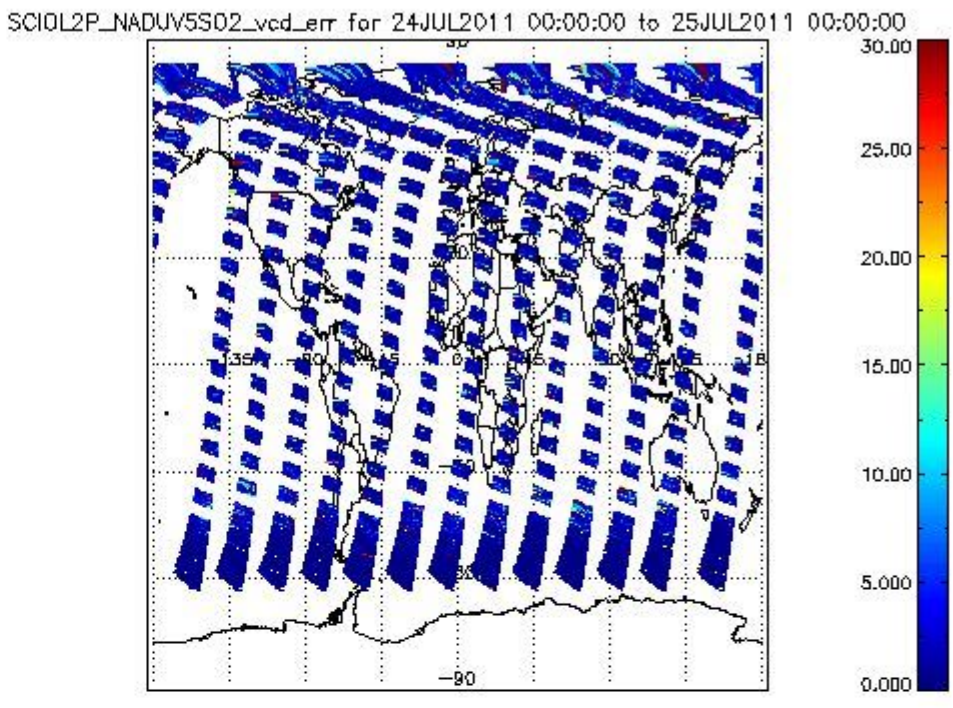
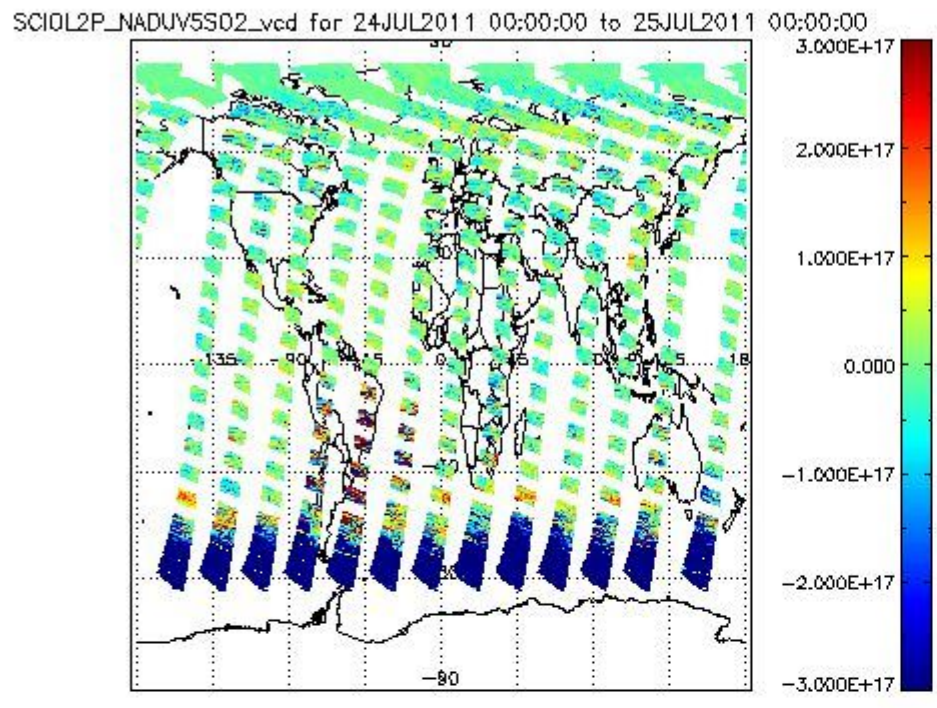
2.2.2.3 BrO (UV3)



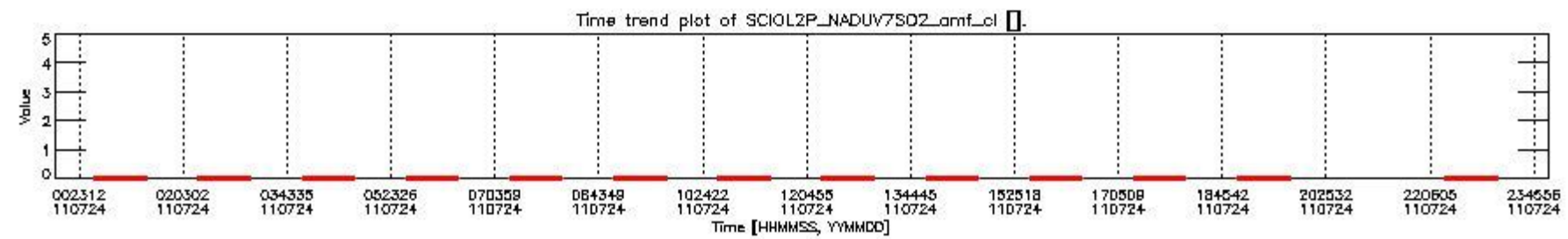
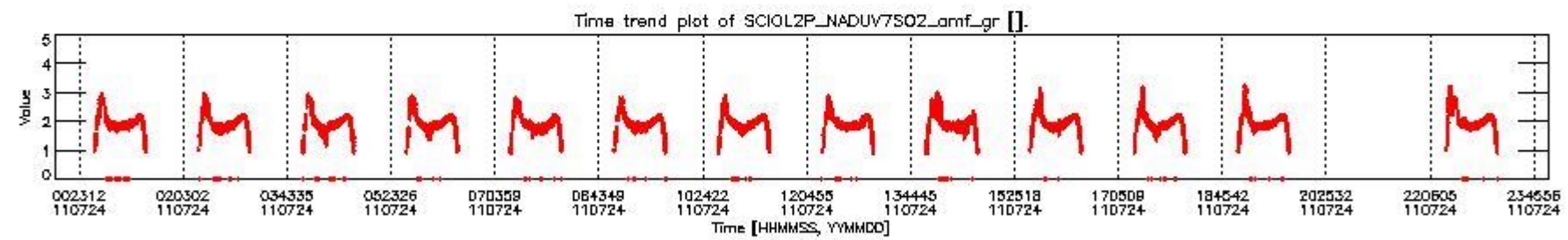
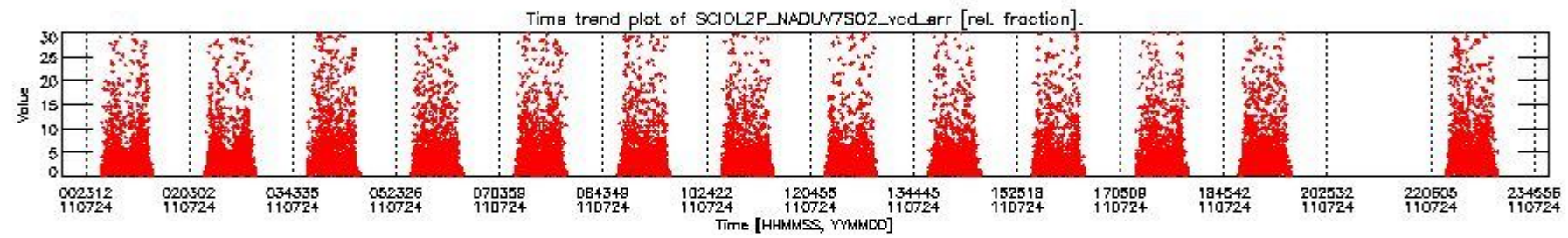
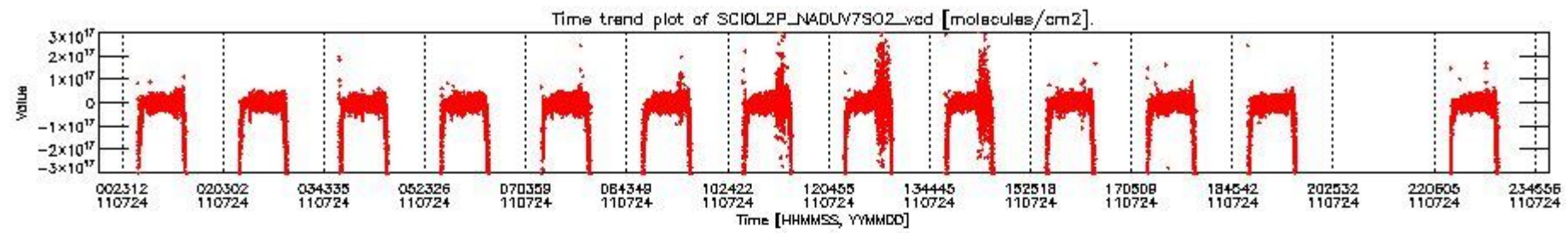


2.2.2.4 SO₂ (UV5)

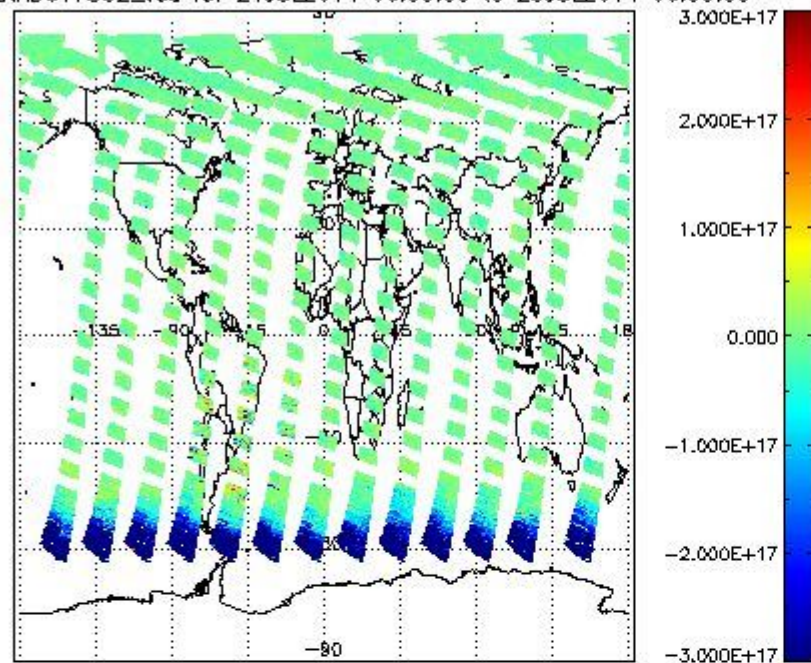




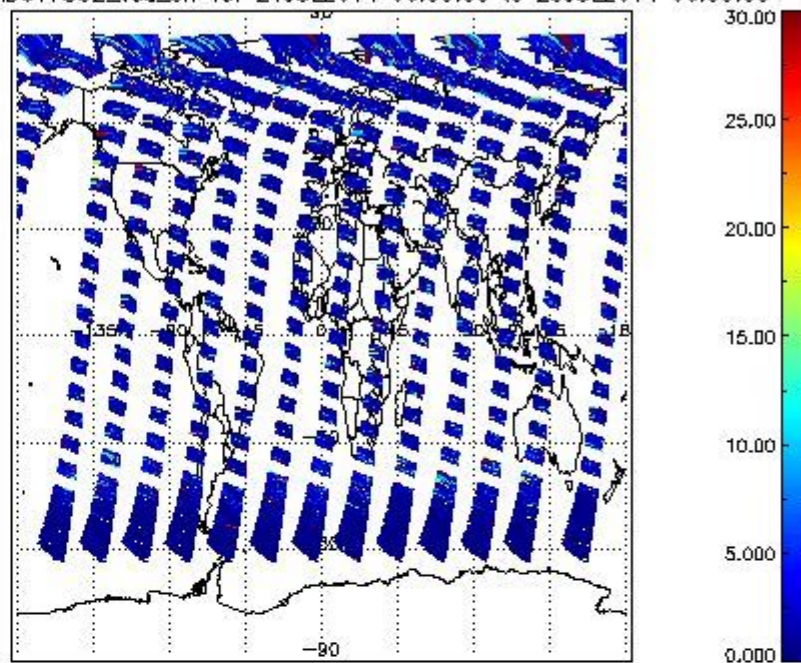
2.2.2.5 SO2 (UV7)



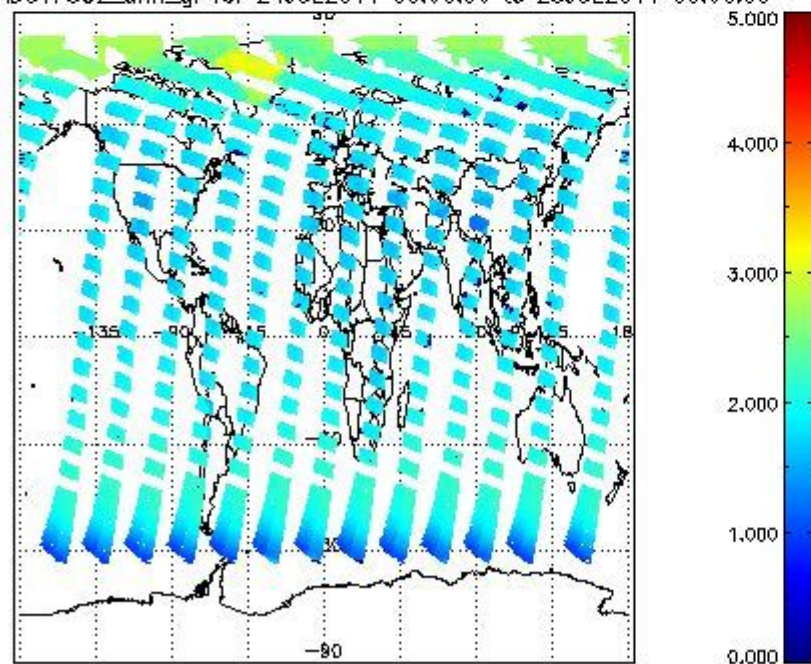
SCIOL2P_NADUV7S02_vcd for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



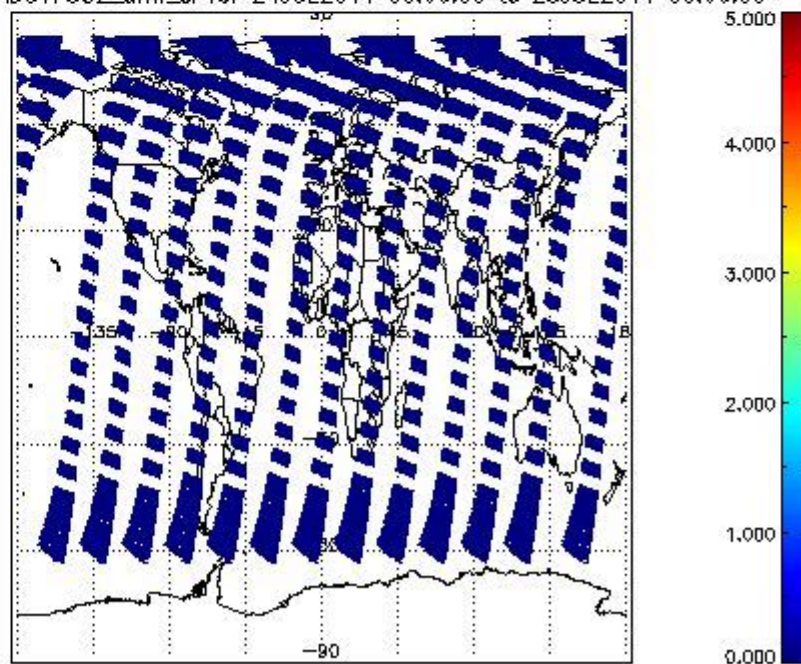
SCIOL2P_NADUV7S02_vcd_err for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



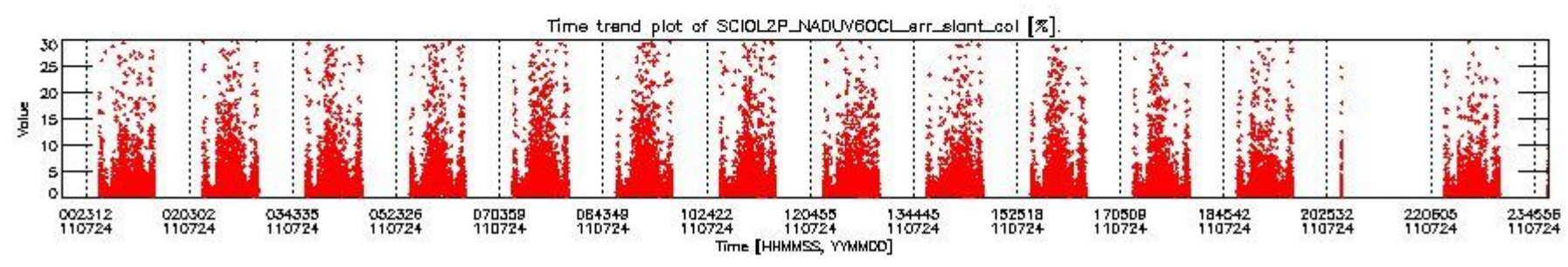
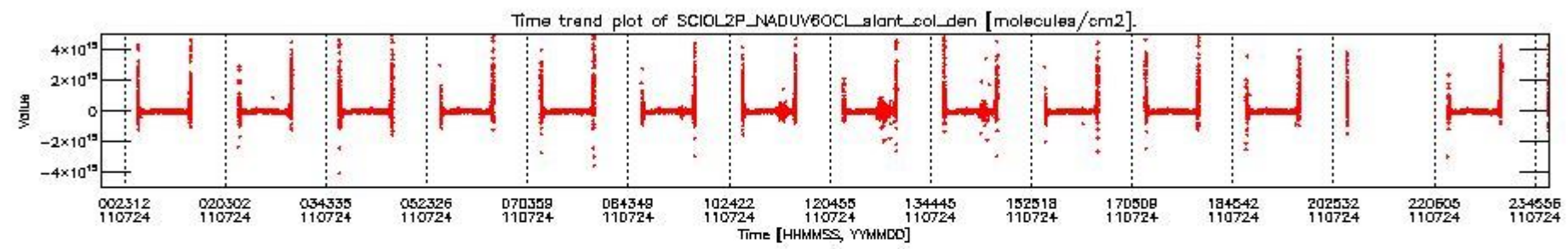
SCIOL2P_NADUV7S02_amf_gr for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



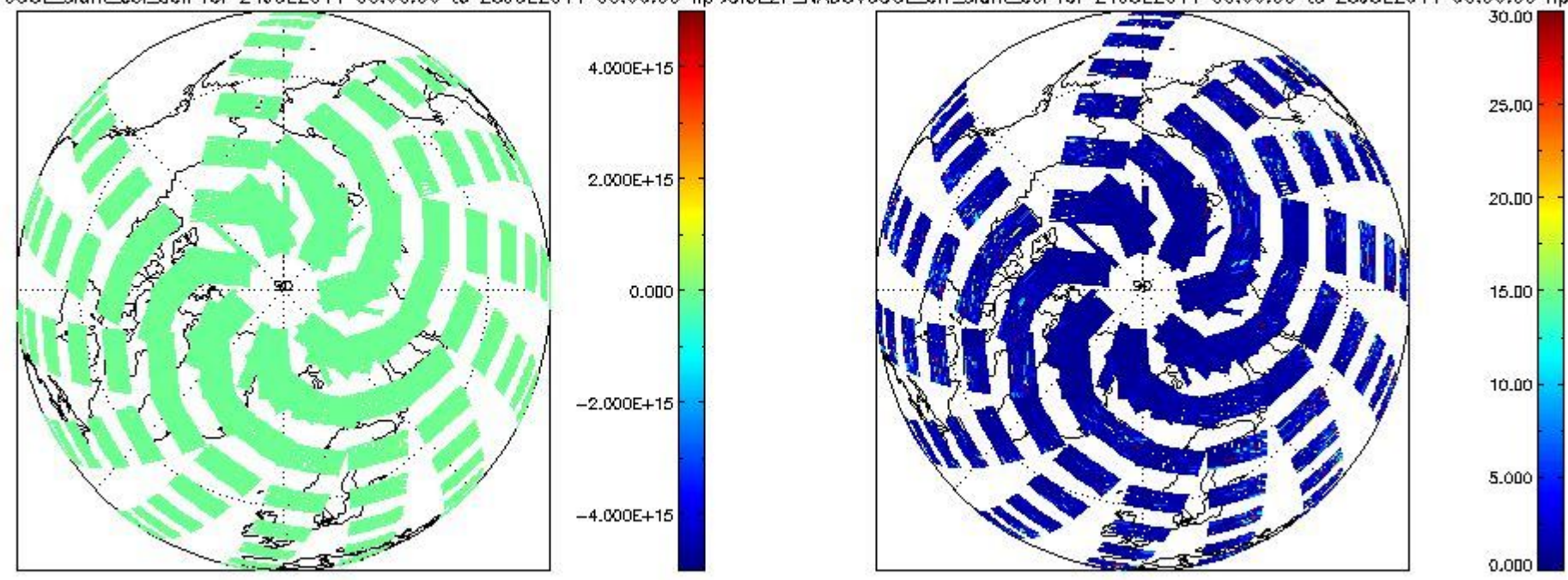
SCIOL2P_NADUV7S02_amf_cl for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



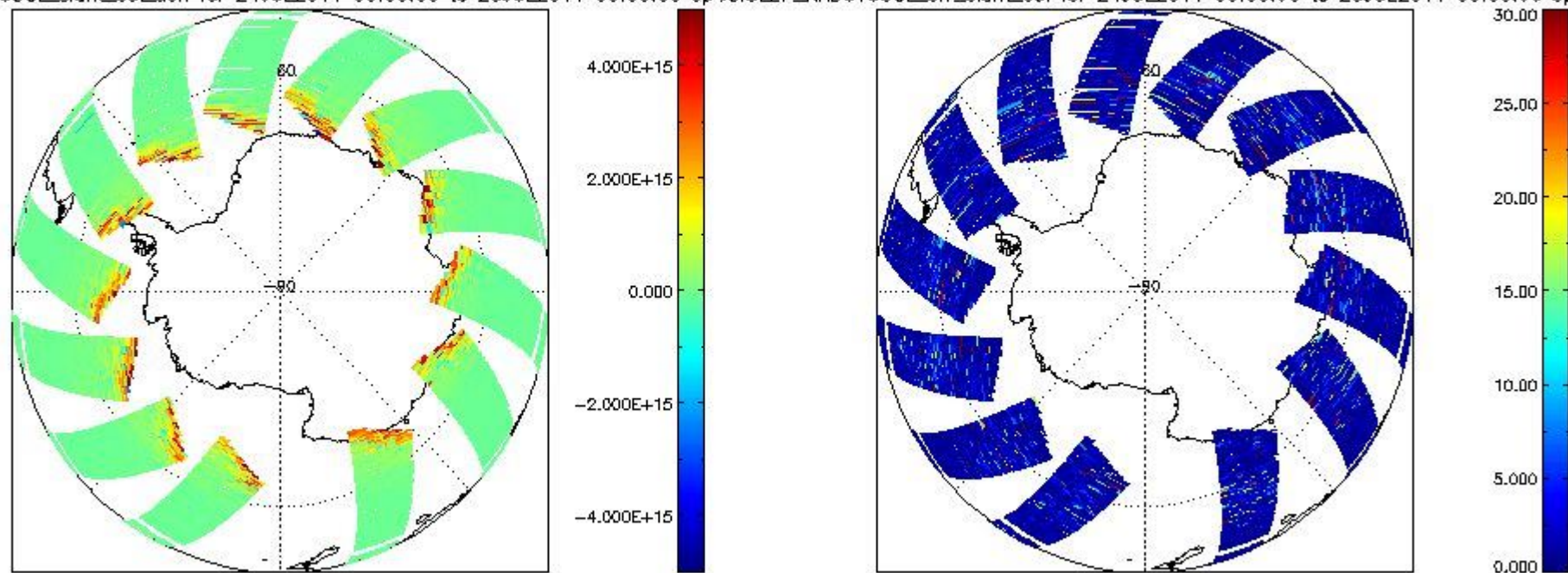
2.2.2.6 OCIO (UV6)



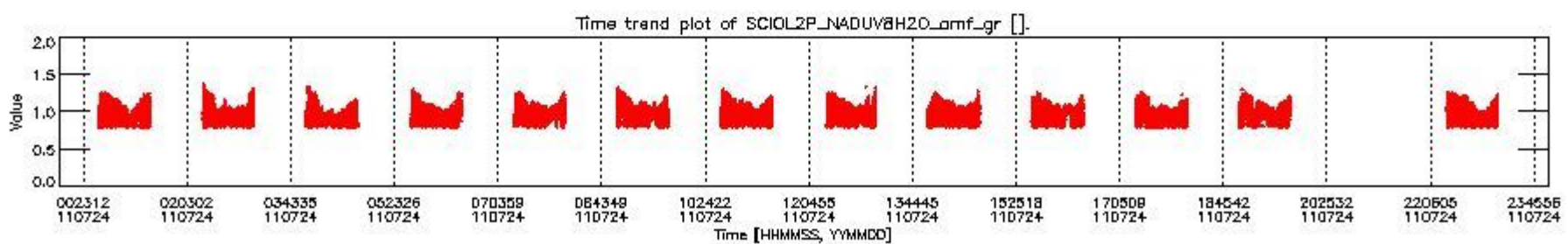
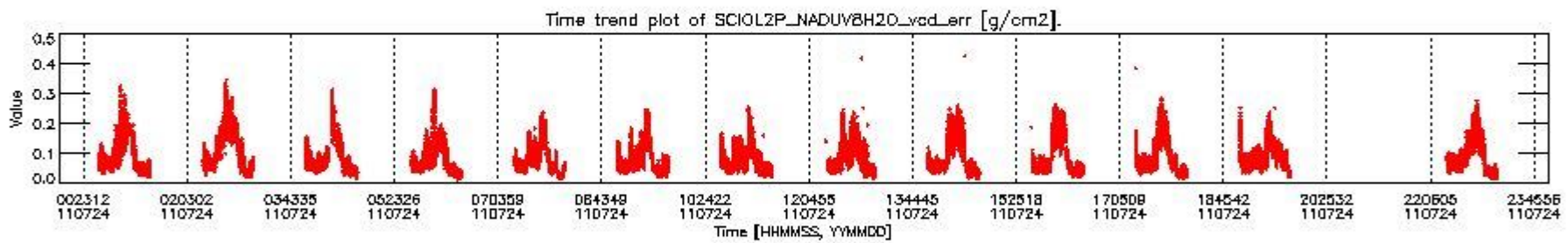
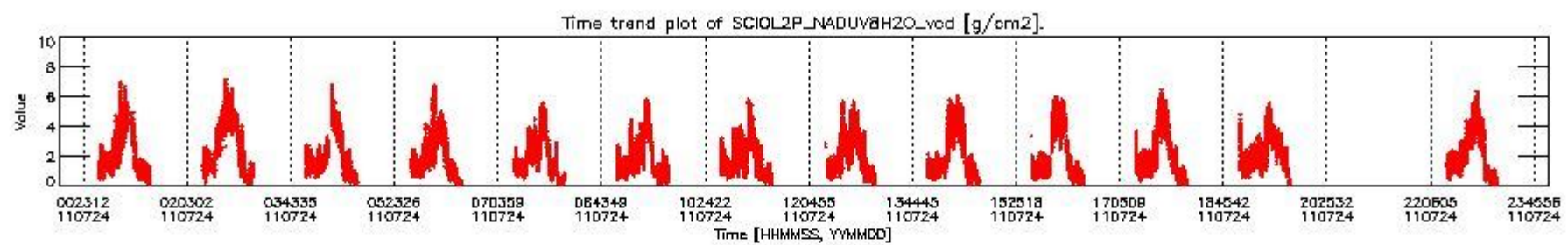
SCIOI2P_NADUV60CLslant_col_den for 24JUL2011 00:00:00 to 25JUL2011 00:00:00 np SCIOI2P_NADUV60CLarr_slant_col for 24JUL2011 00:00:00 to 25JUL2011 00:00:00 np



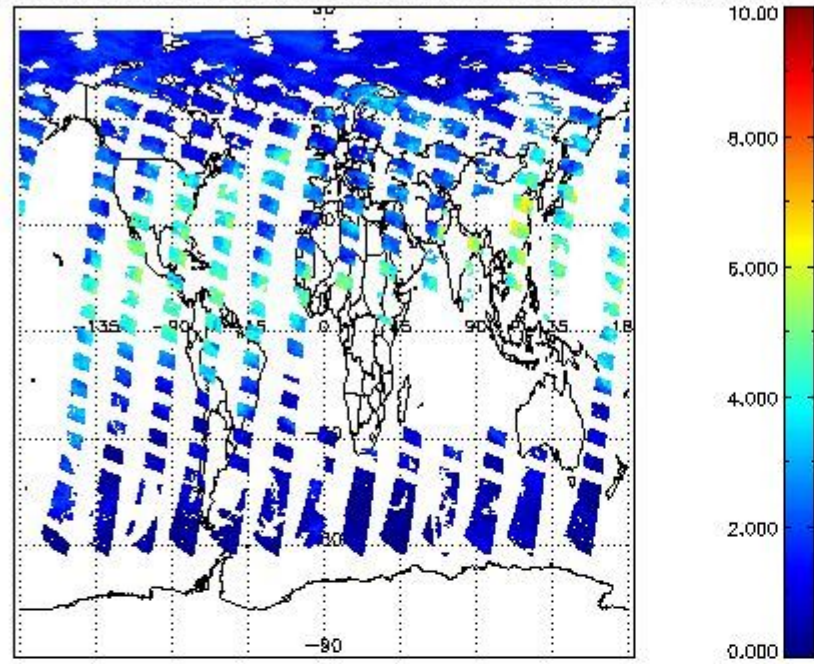
SCIOL2P_NADUV60CL_slant_coLden for 24JUL2011 00:00:00 to 25JUL2011 00:00:00 sp SCIOL2P_NADUV60CL_err_slant_col for 24JUL2011 00:00:00 to 25JUL2011 00:00:00 sp



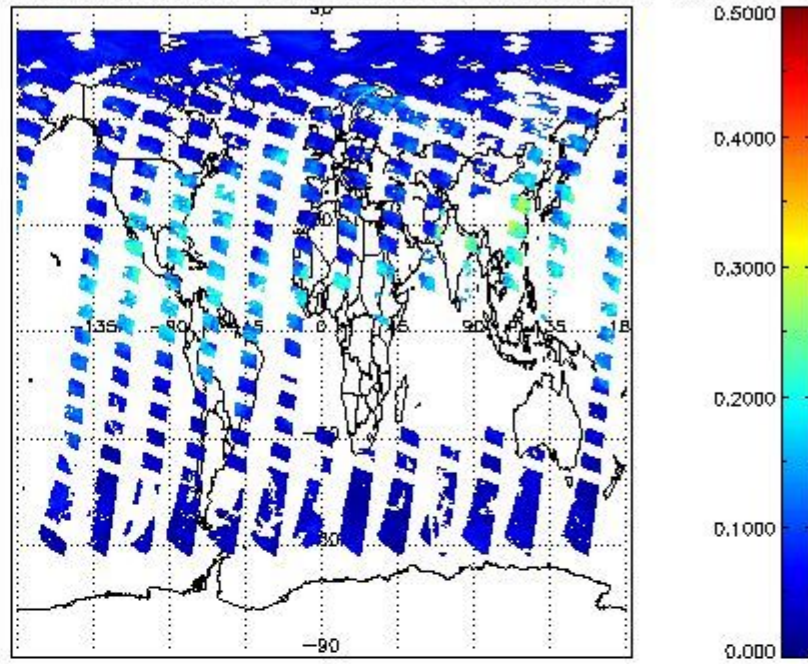
2.2.2.7 H2O (UV8)



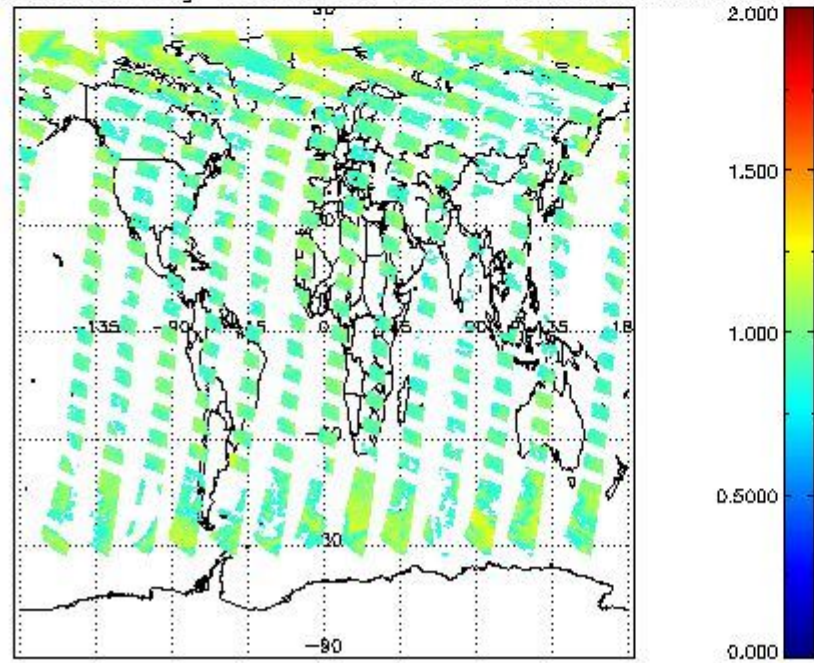
SCIOL2P_NADUV8H20_vcd for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



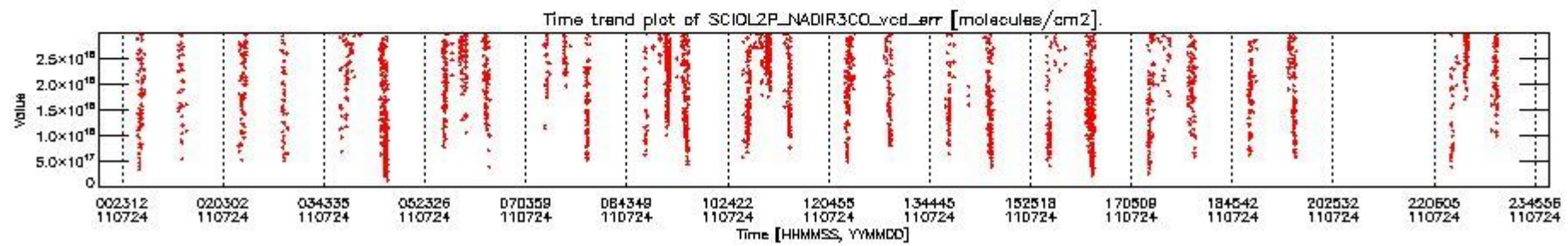
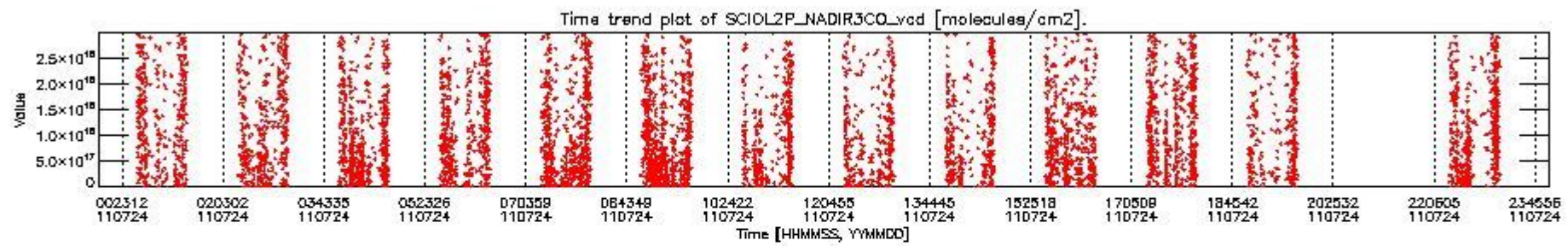
SCIOL2P_NADUV8H20_vcd_err for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



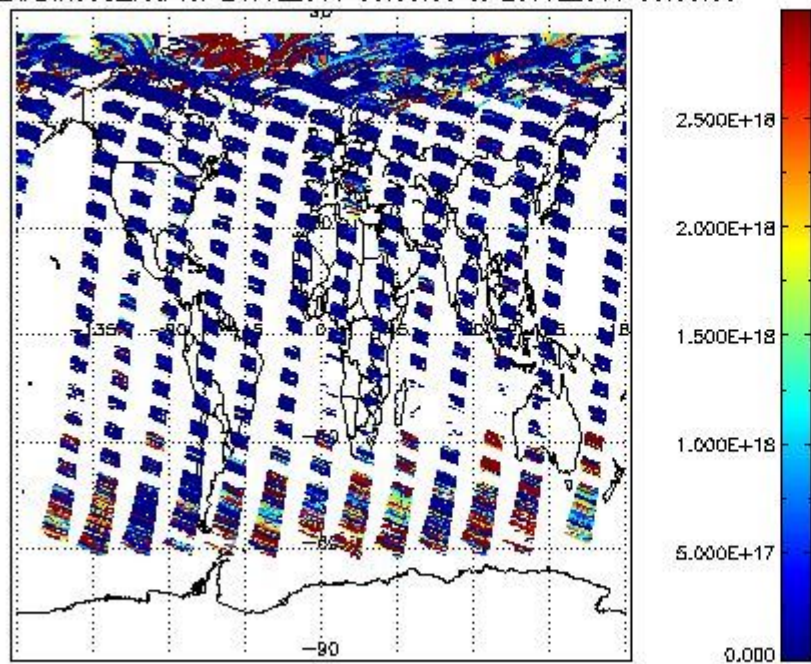
SCIOL2P_NADUV8H20_amf_gr for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



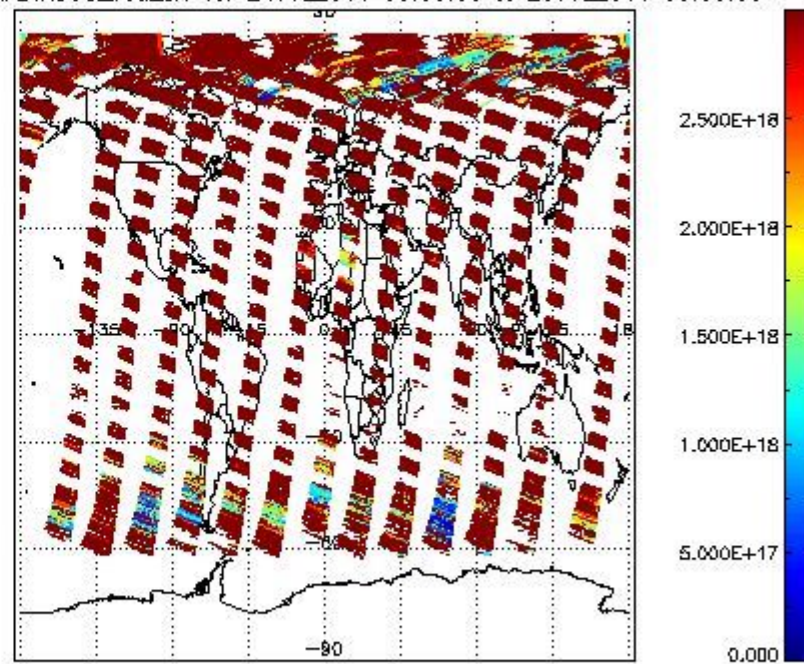
2.2.2.8 CO (IR3)



SCIDL2P_NADIR3CO_vcd for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



SCIDL2P_NADIR3CO_vcd_err for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



2.2.3 Limb

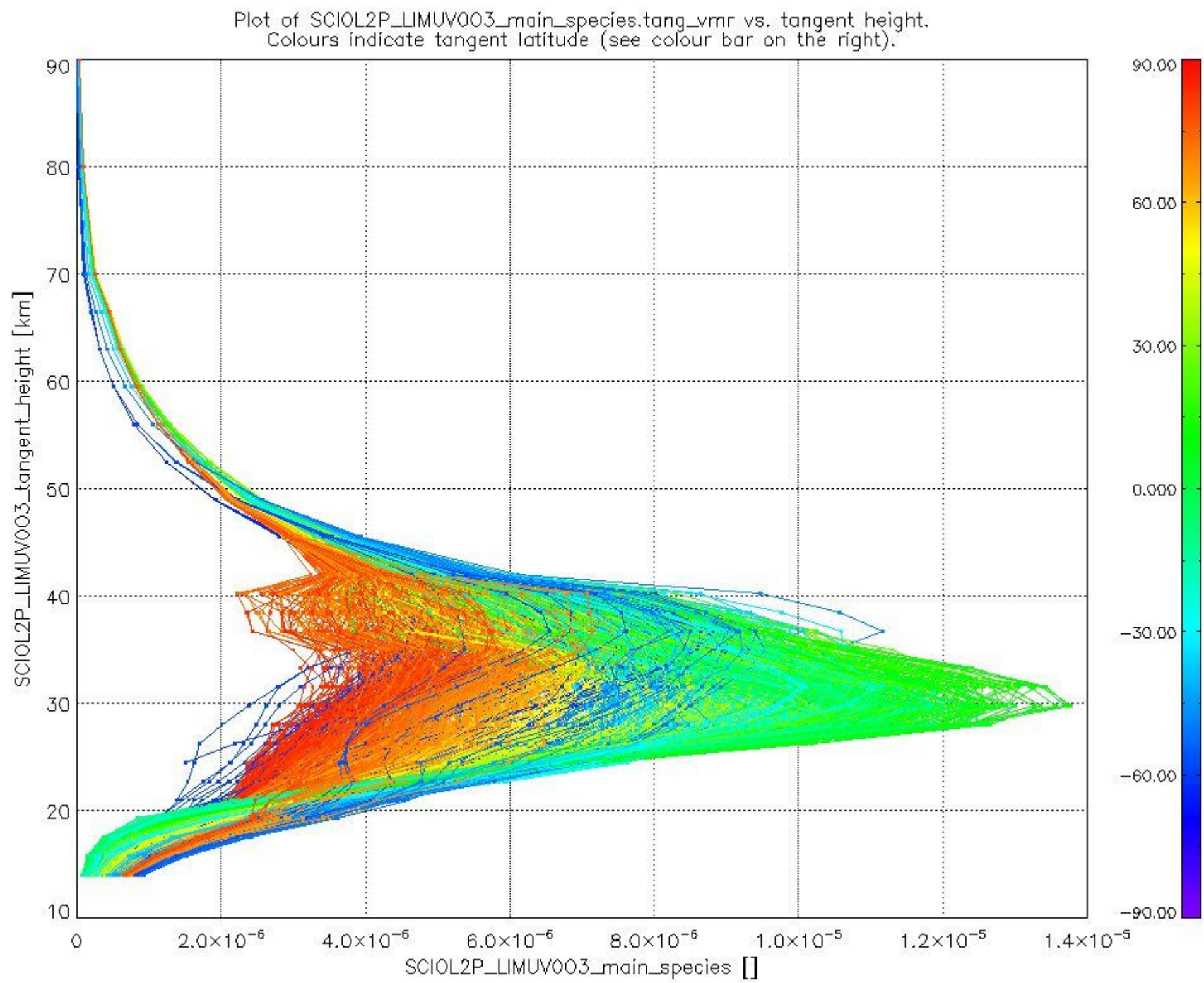
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

The following data items are currently included into this section:

Number	Data item ID
0	SCIDL2P_LIMUV003_main_species
1	SCIDL2P_LIMUV1NO2_main_species
2	SCIDL2P_LIMUV3BRO_main_species

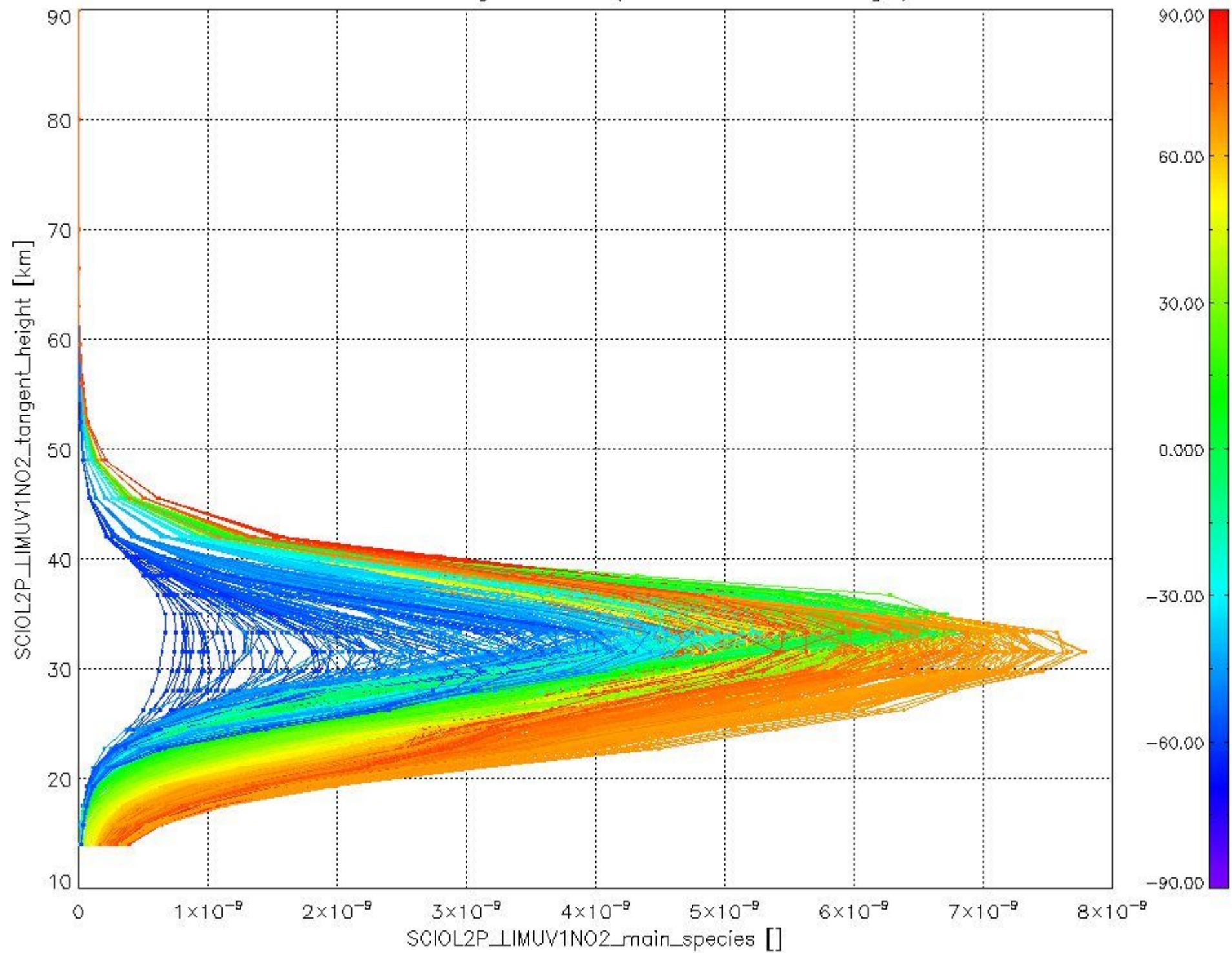
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



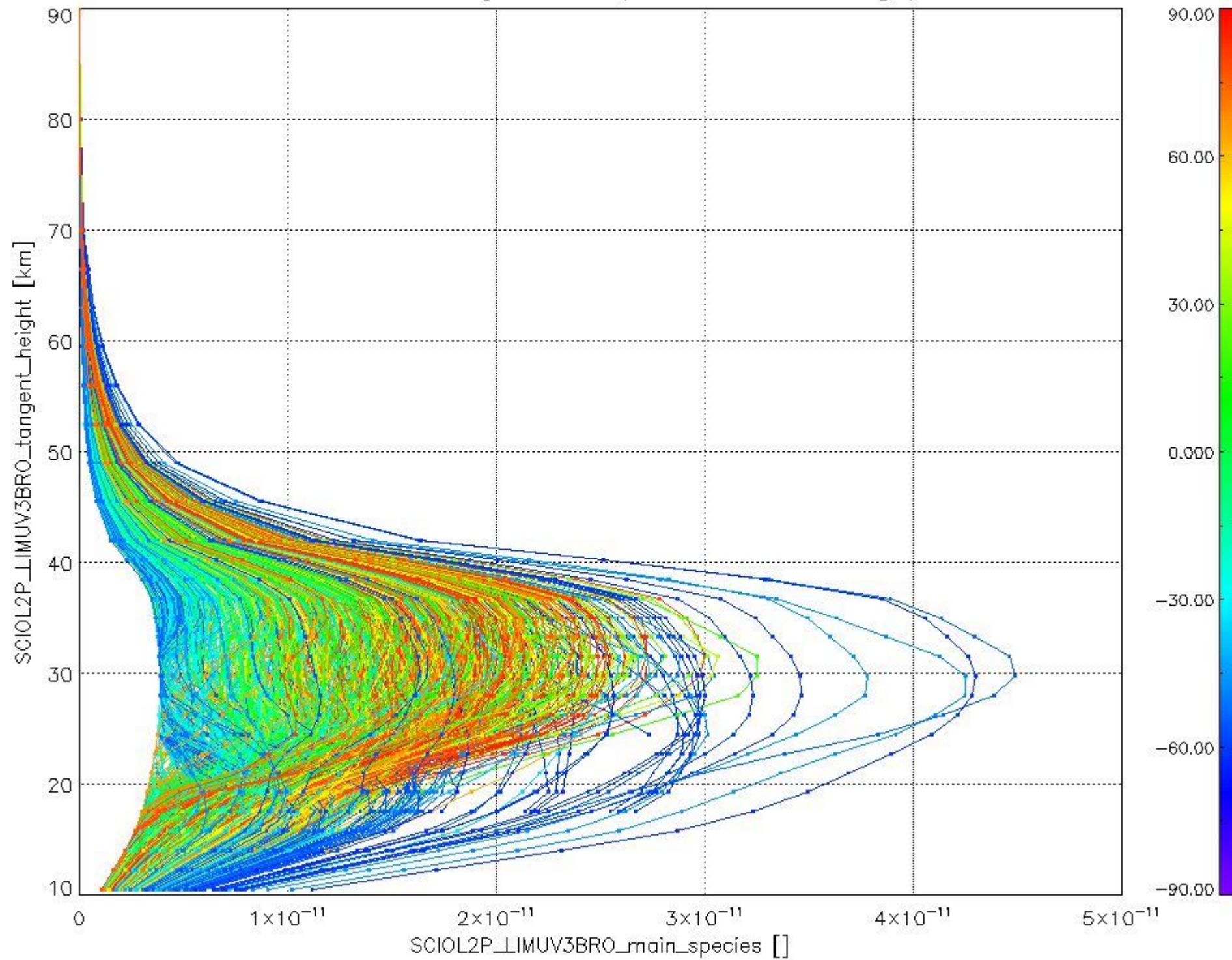
2.2.3.2 NO2 (UV1)

Plot of SCIO2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



2.2.3.3 BrO (UV3)

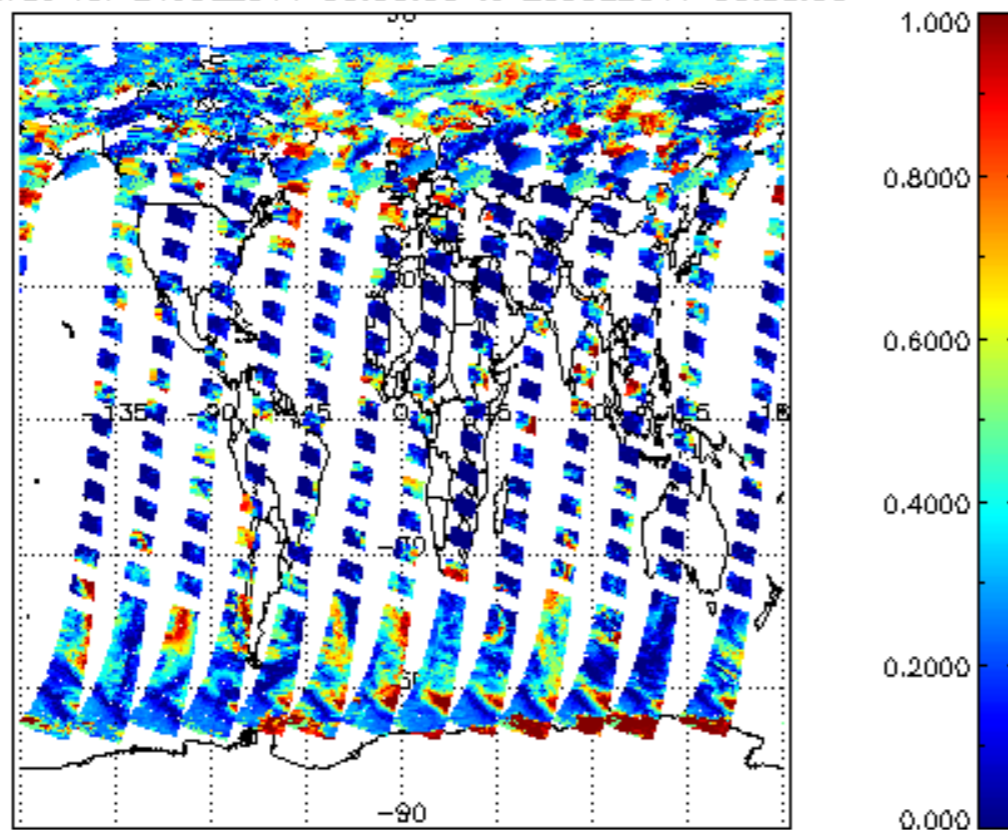
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



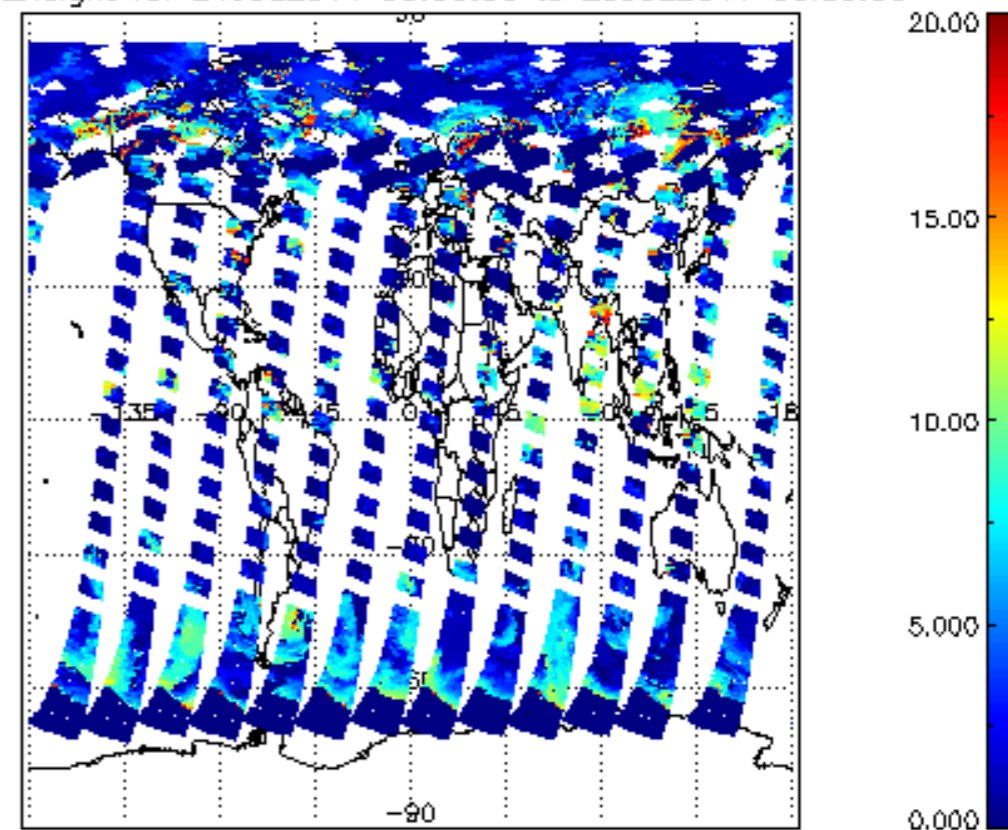
2.3 ADF monitoring

Number	ADF
	IN_ (INITIALISATION_FILE)
0	SCI_IN_AXNPDE20090615_120000_20090615_000000_20991231_235959
	ECF (ECMWF_FILE)
1	NOT USED
	MF1 (M_FACTOR_FILE)
2	SCI_MF1_AXVIEC20110726_110448_20110723_190423_20110725_190423
3	SCI_MF1_AXVIEC20110726_110549_20110724_182738_20110726_182738

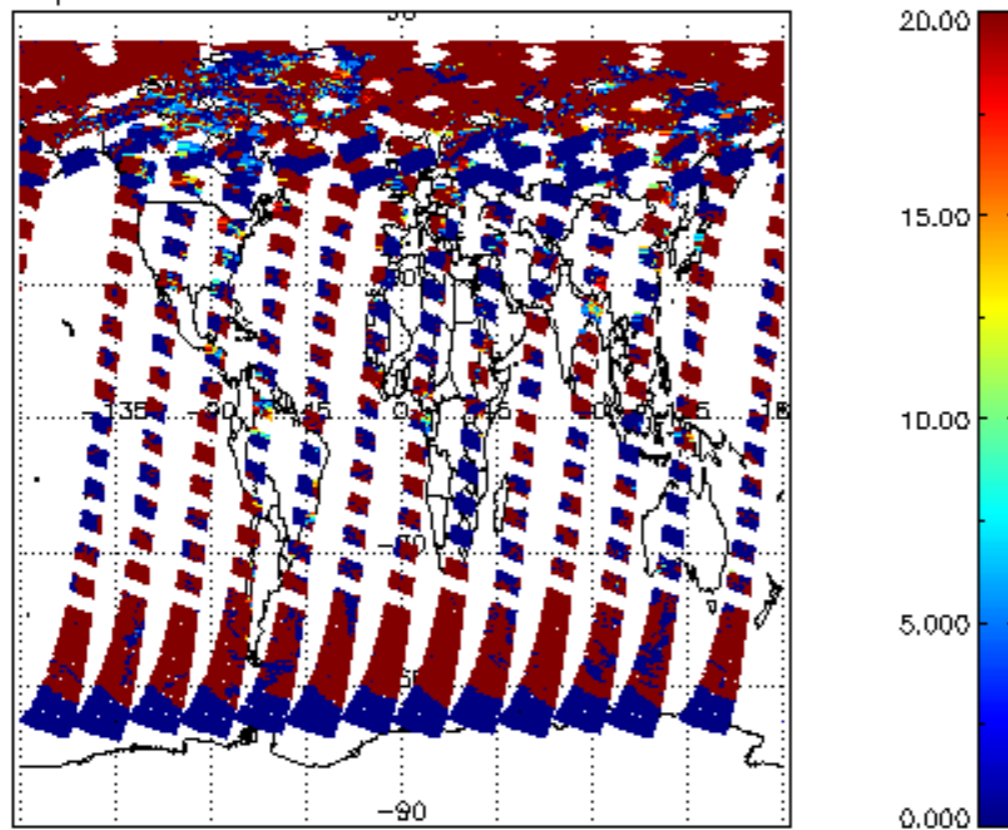
cl_frac for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



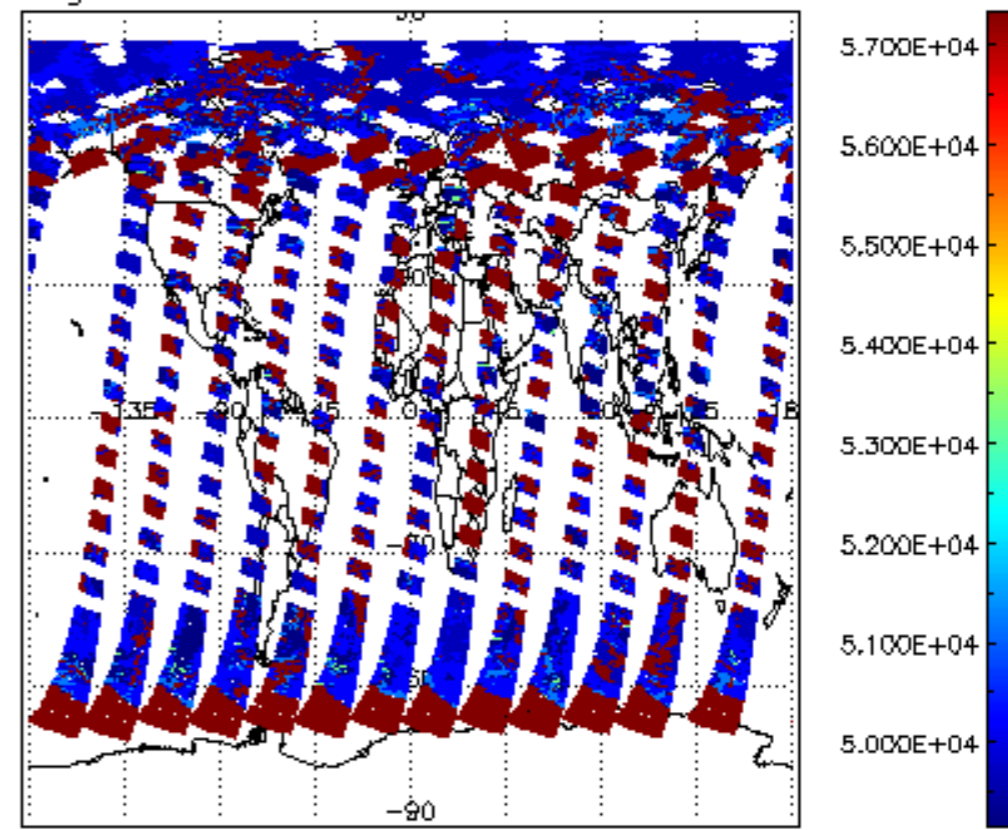
cl_top_height for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

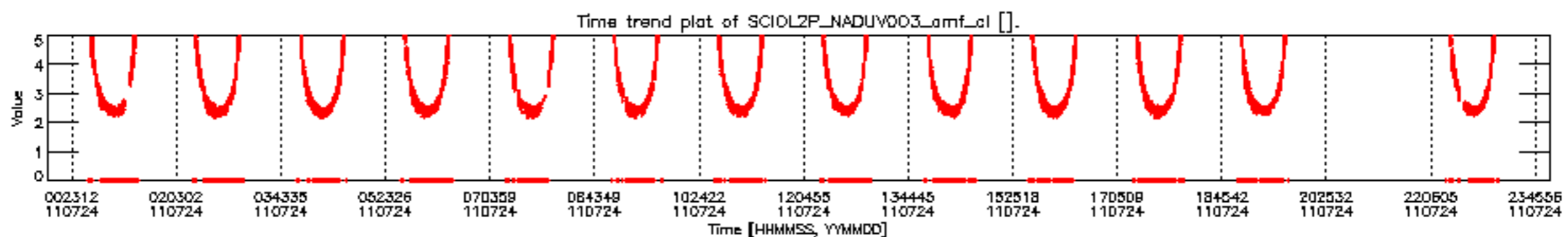
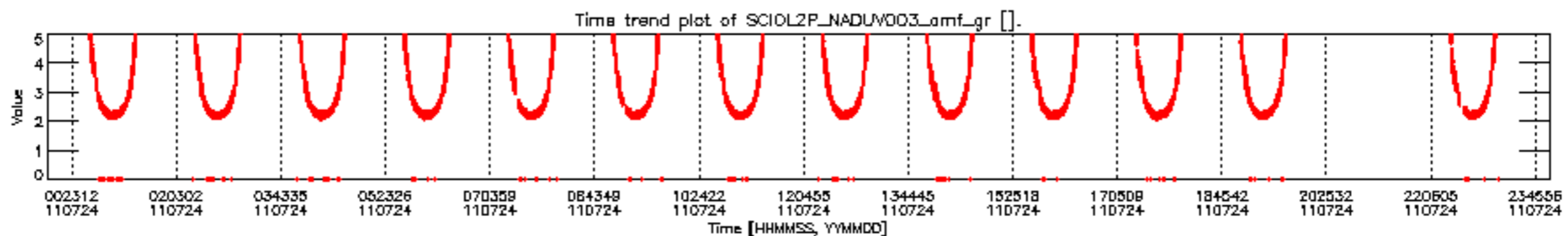
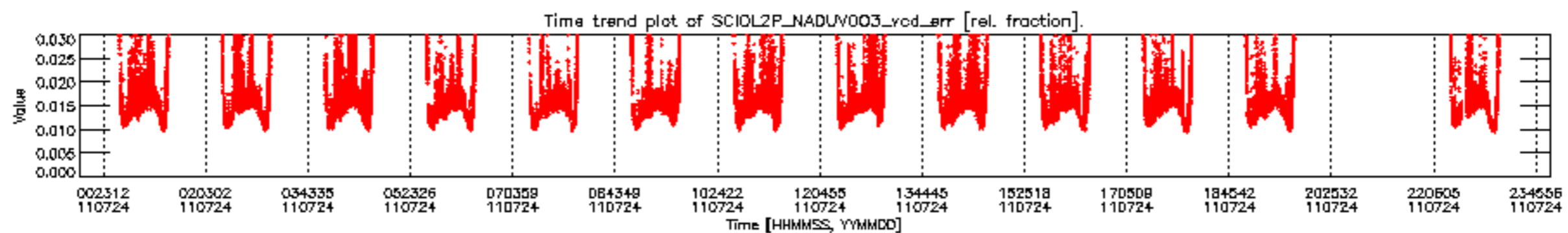
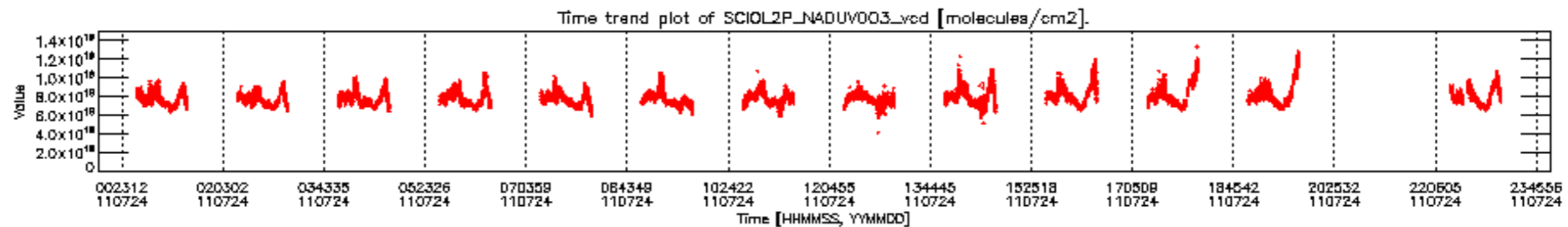


cl_lopt_depth for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

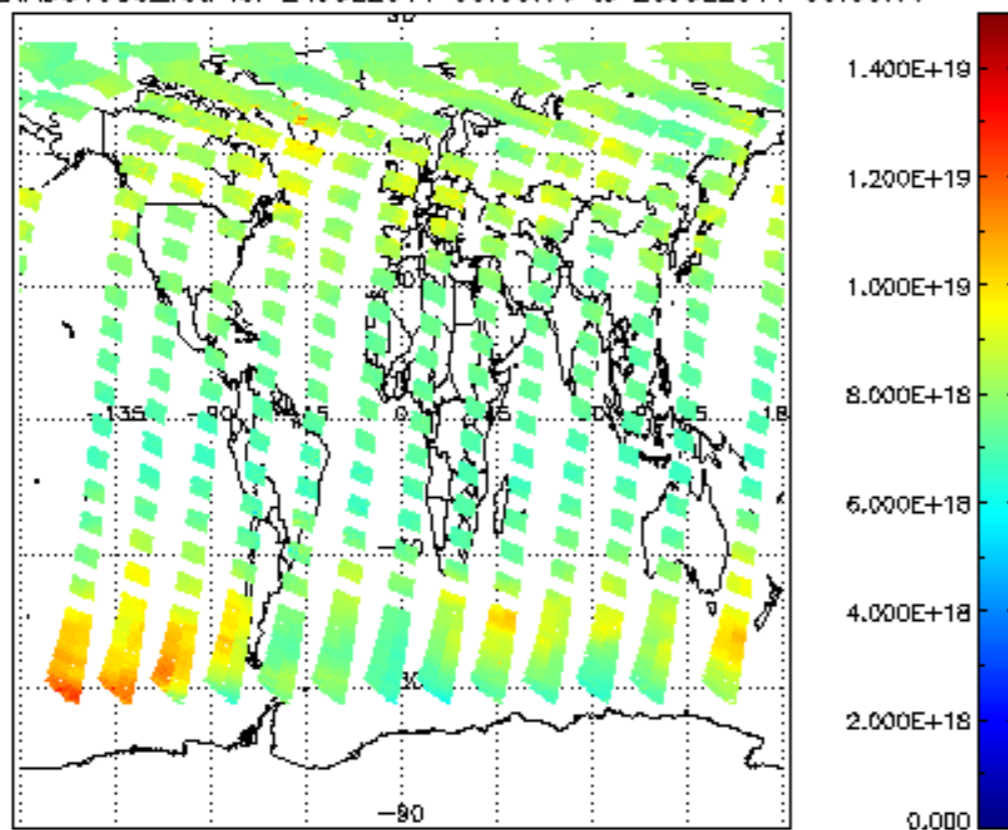


cloud_flags for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

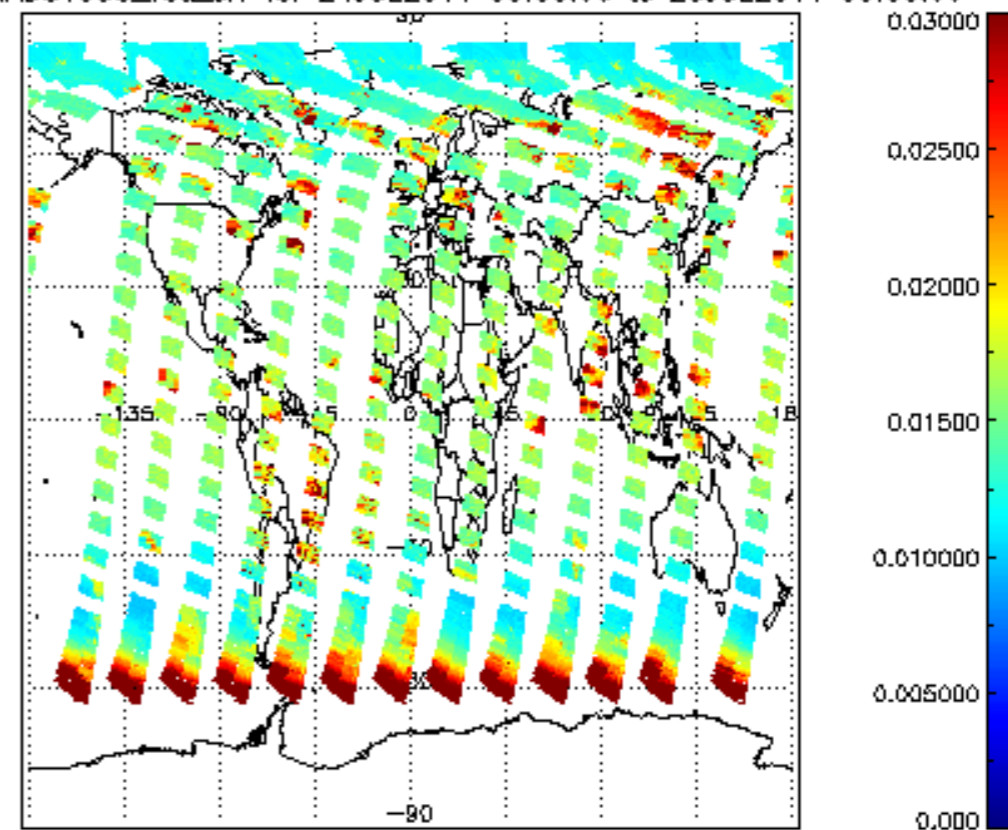




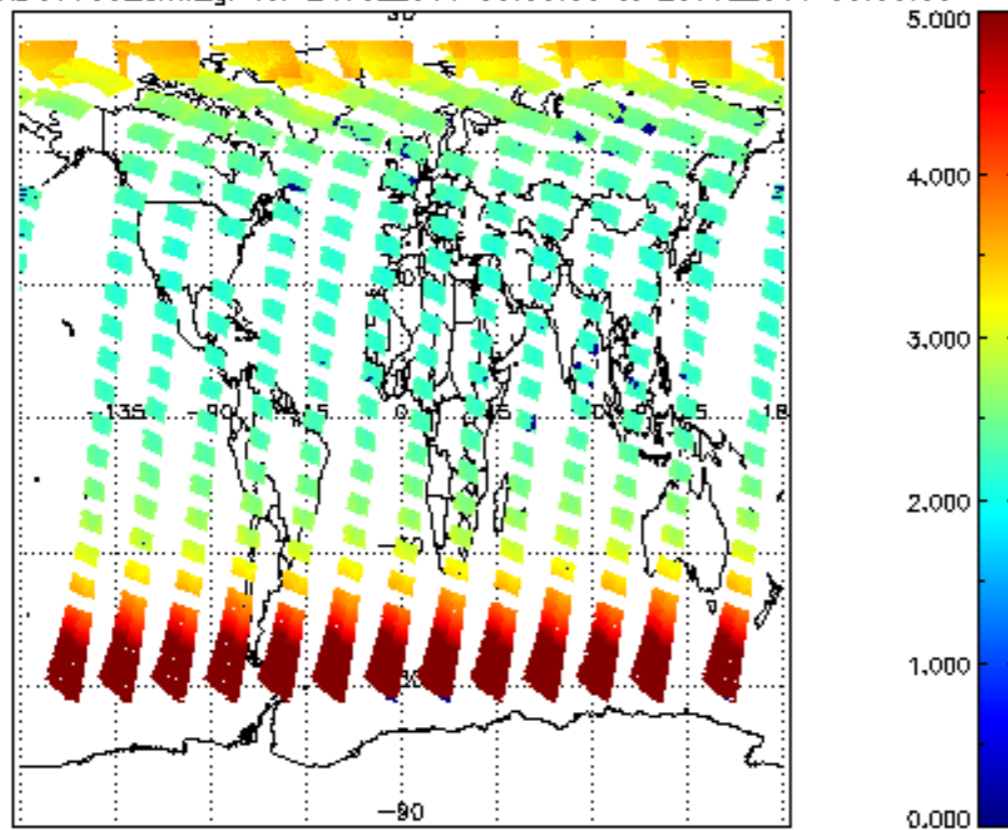
SCIOL2P_NADUV003_vcd for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



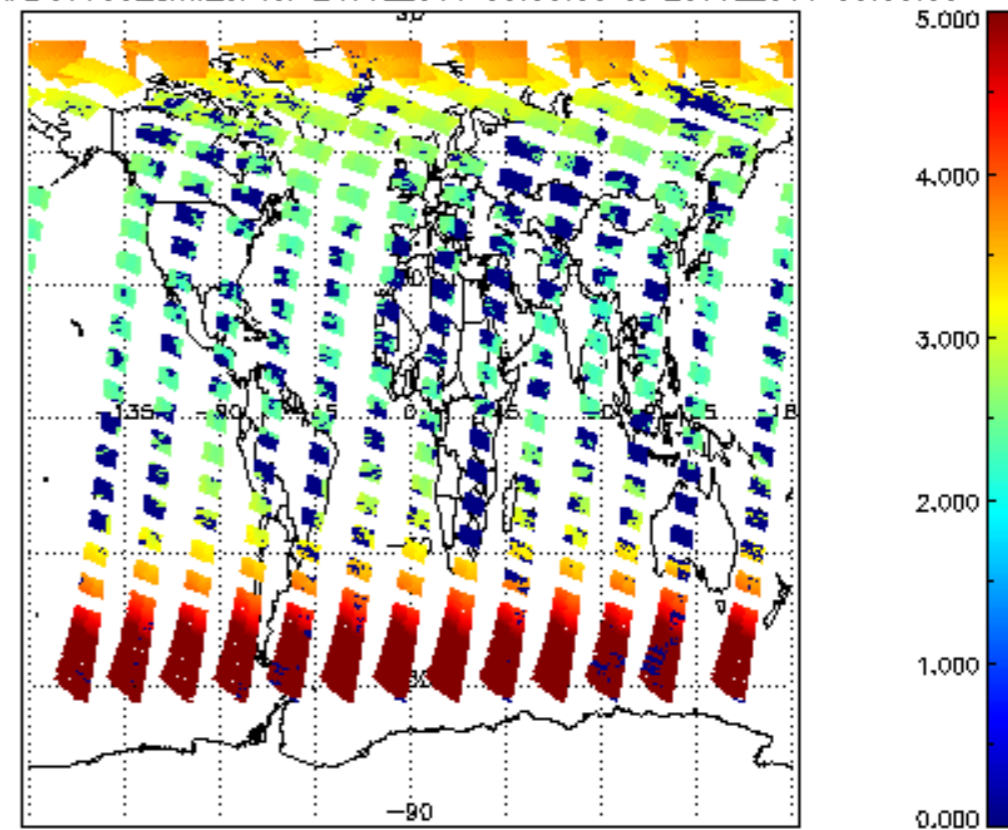
SCIOL2P_NADUV003_vcd_err for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

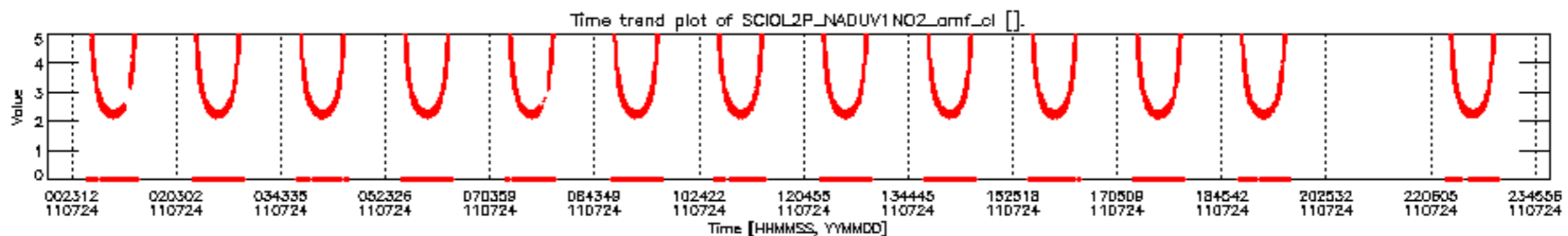
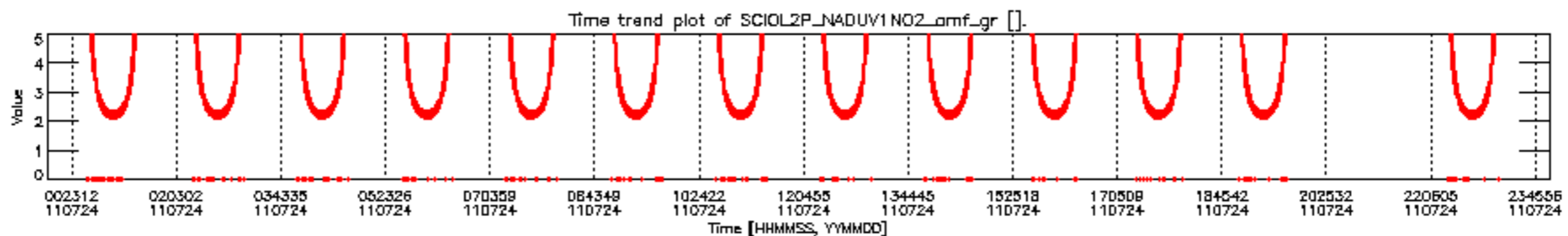
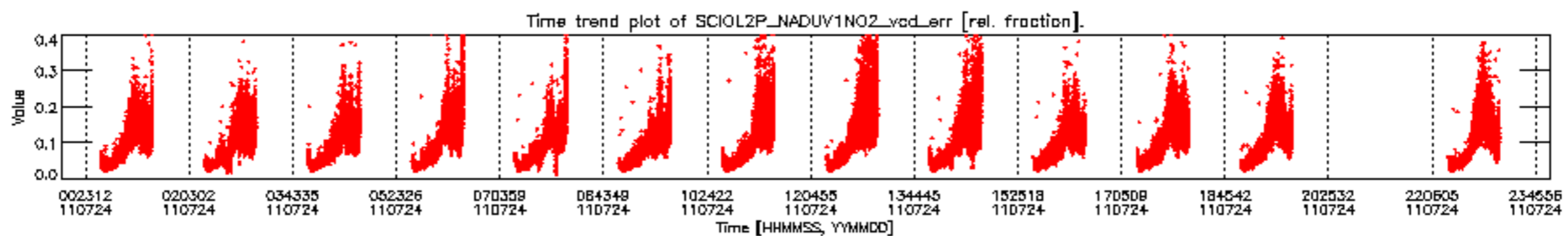
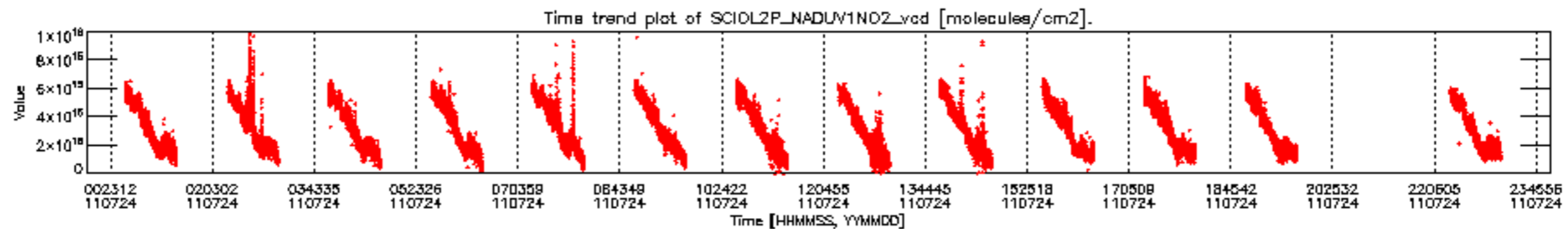


SCIOL2P_NADUV003_amf_gr for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

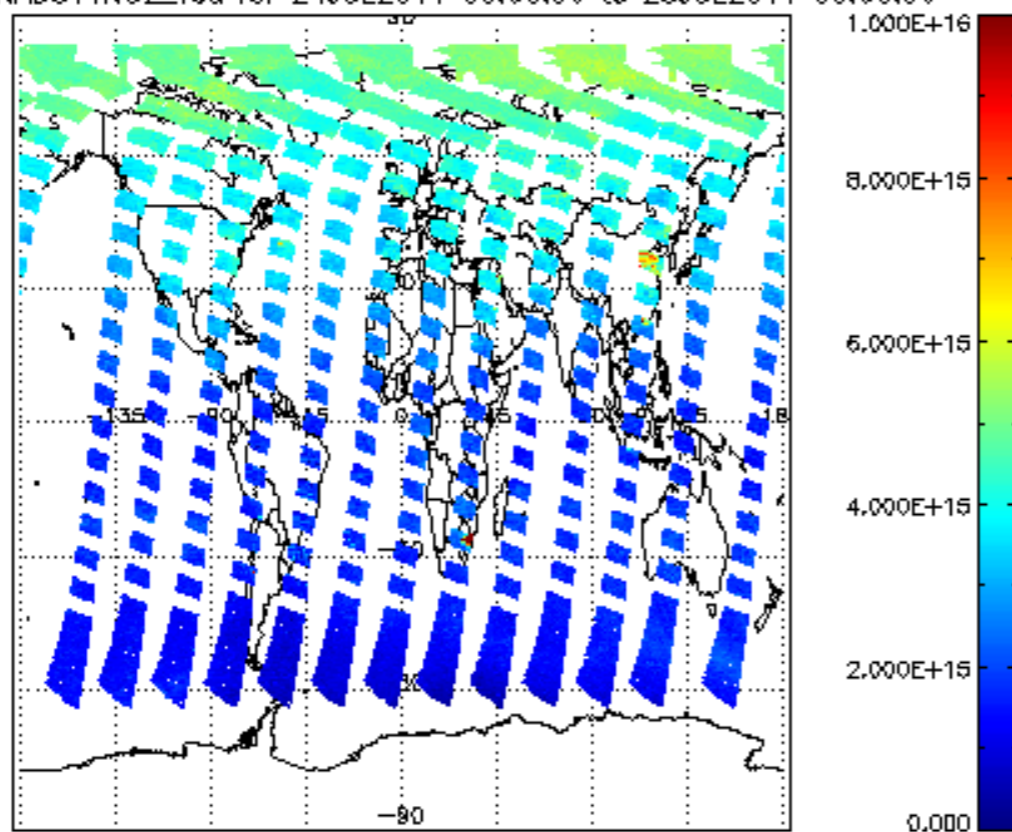


SCIOL2P_NADUV003_amf_cl for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

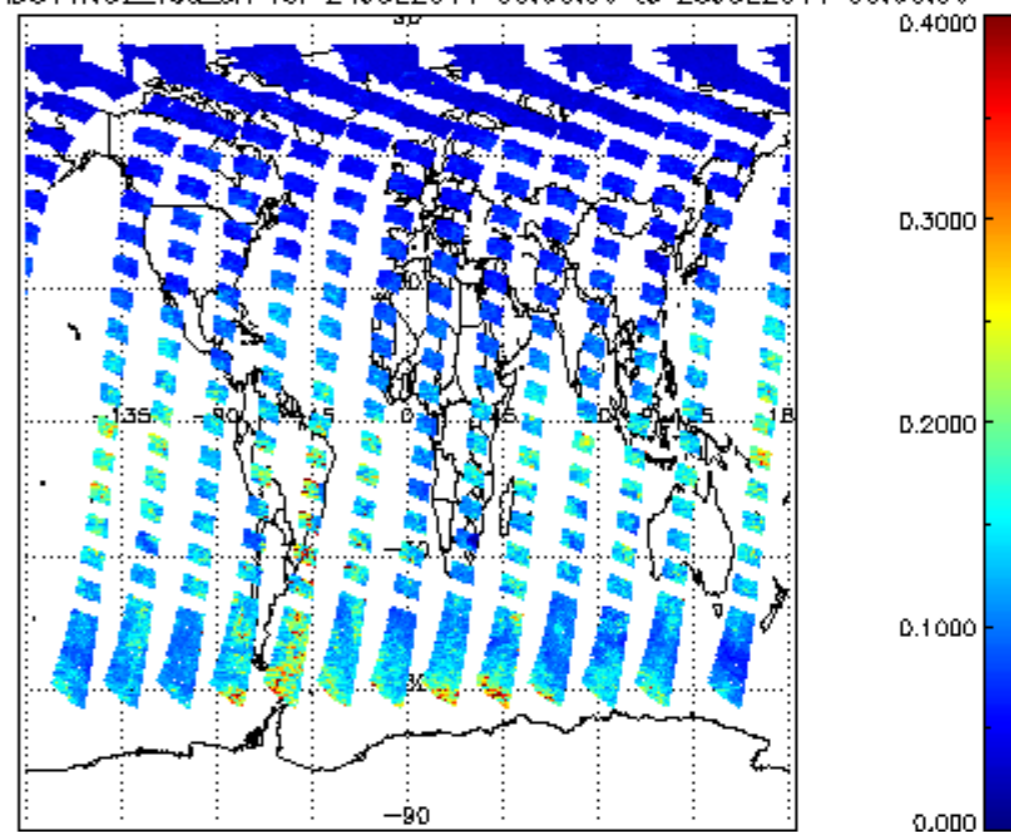




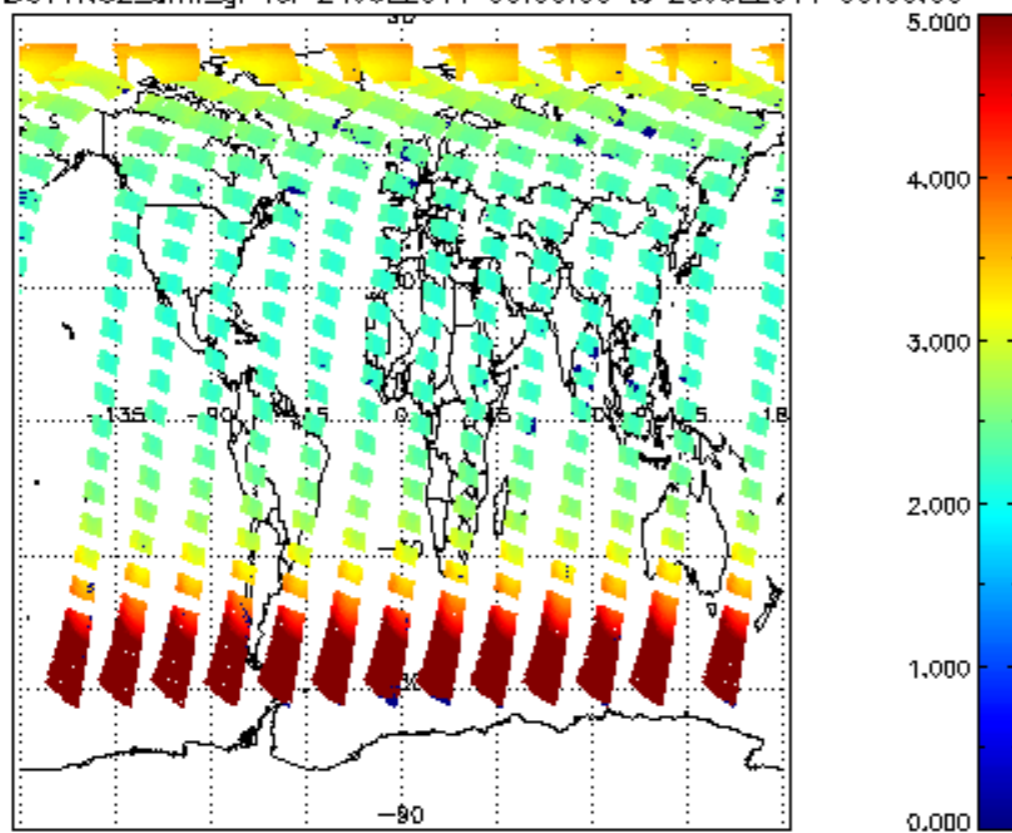
SCIOL2P_NADUV1NO2_vcd for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



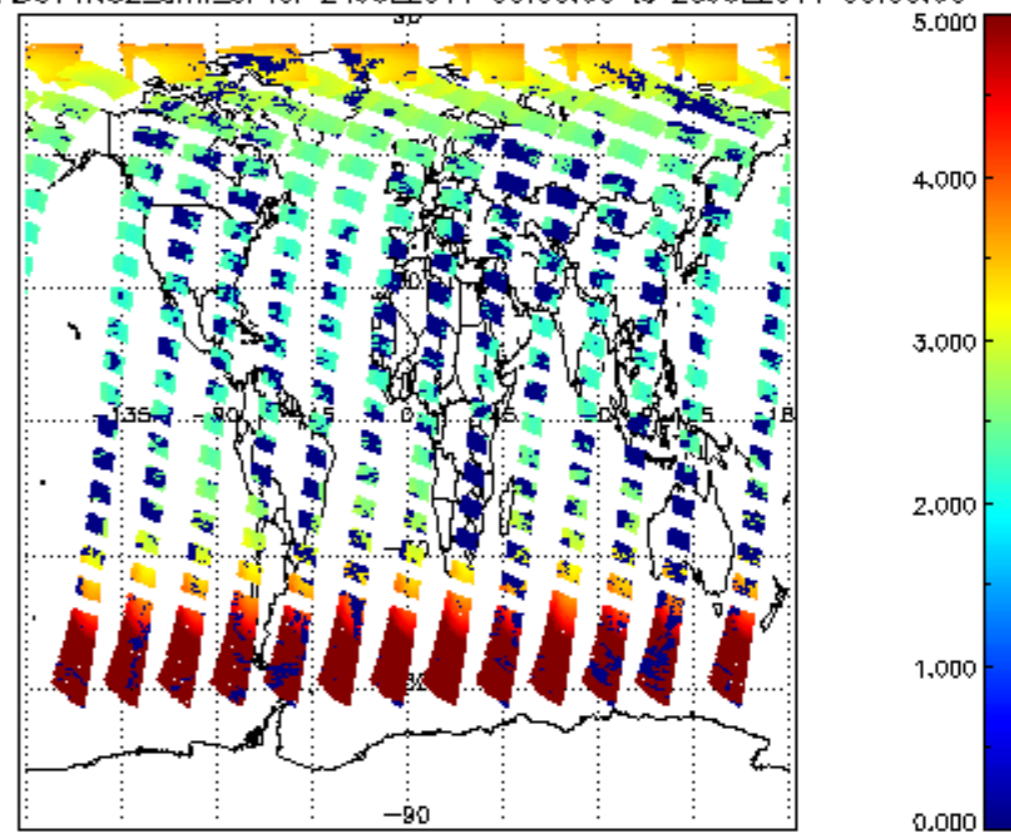
SCIOL2P_NADUV1NO2_vcd_err for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

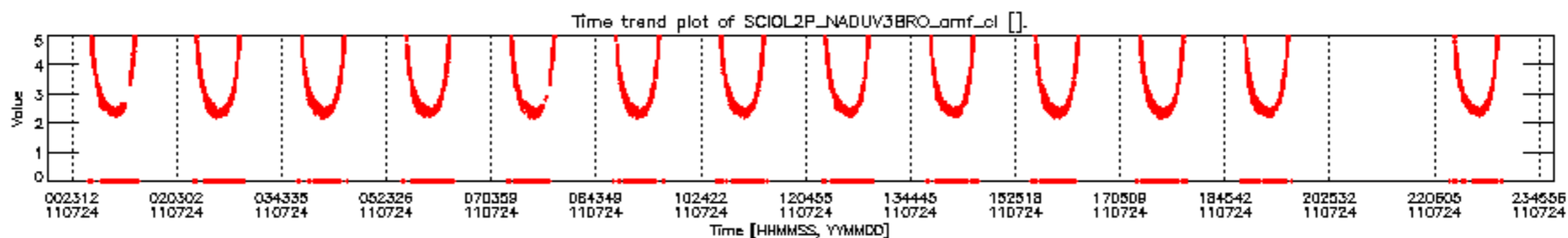
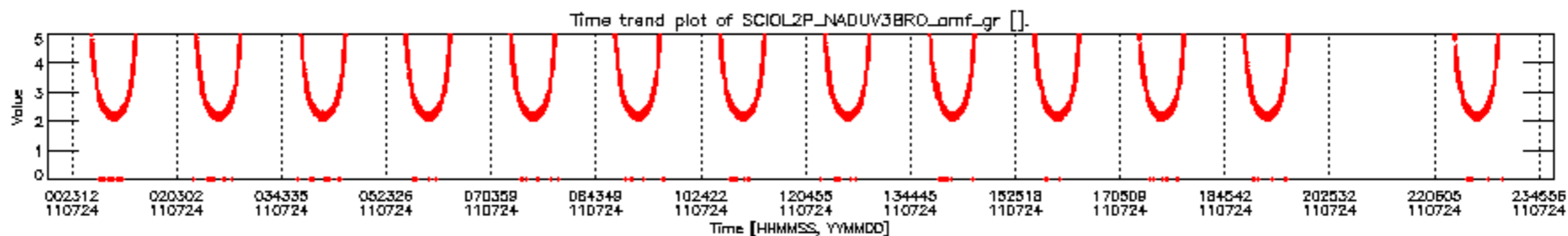
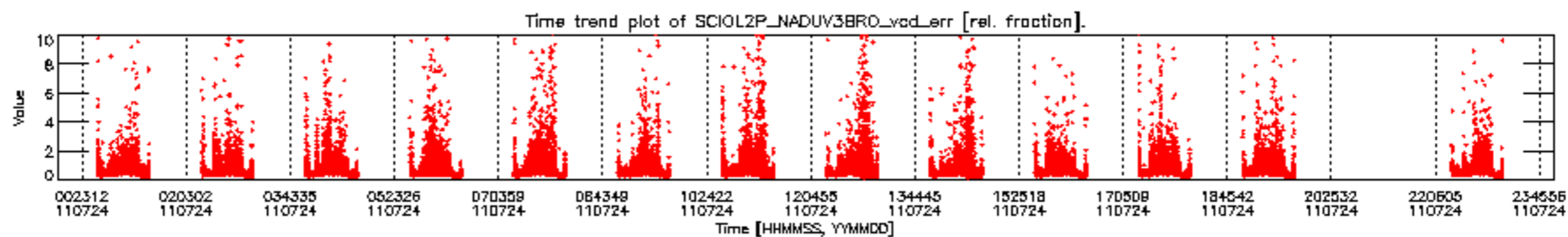
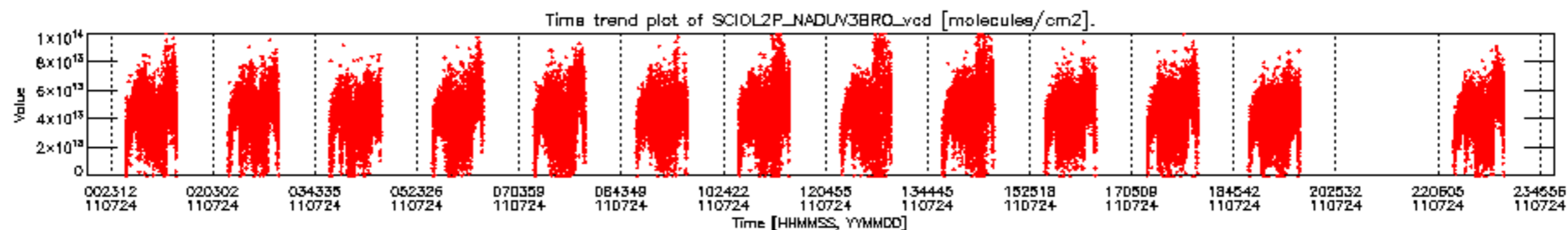


SCIOL2P_NADUV1NO2_amf_gr for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

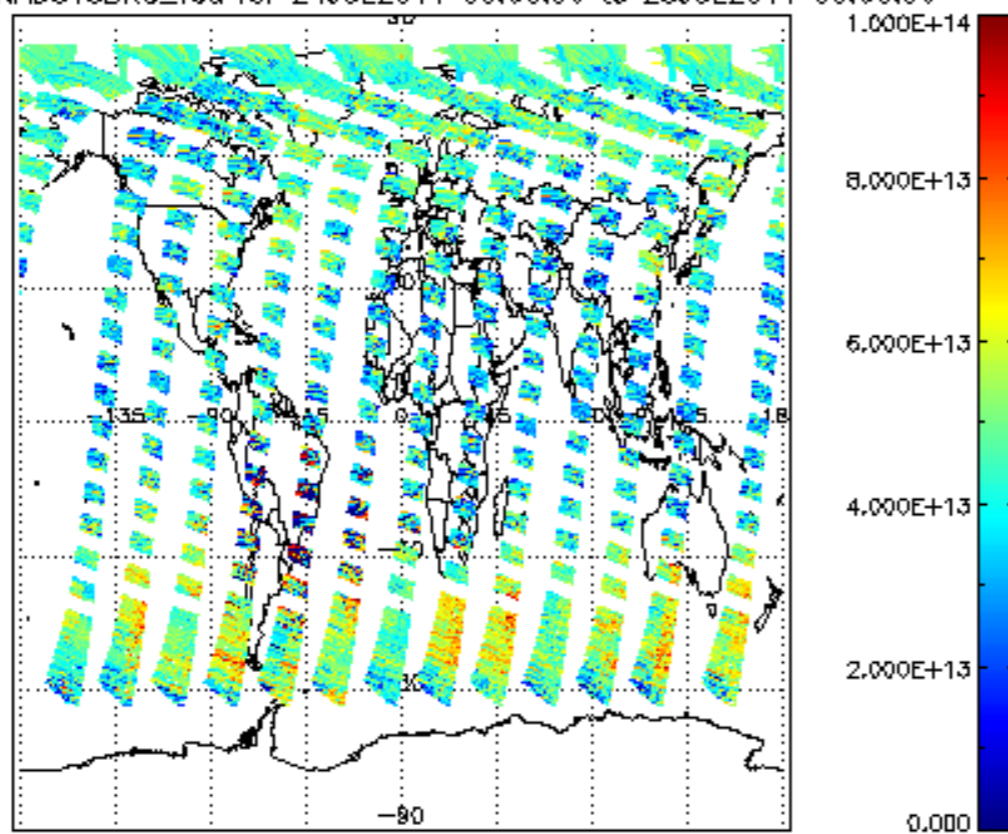


SCIOL2P_NADUV1NO2_amf_cl for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

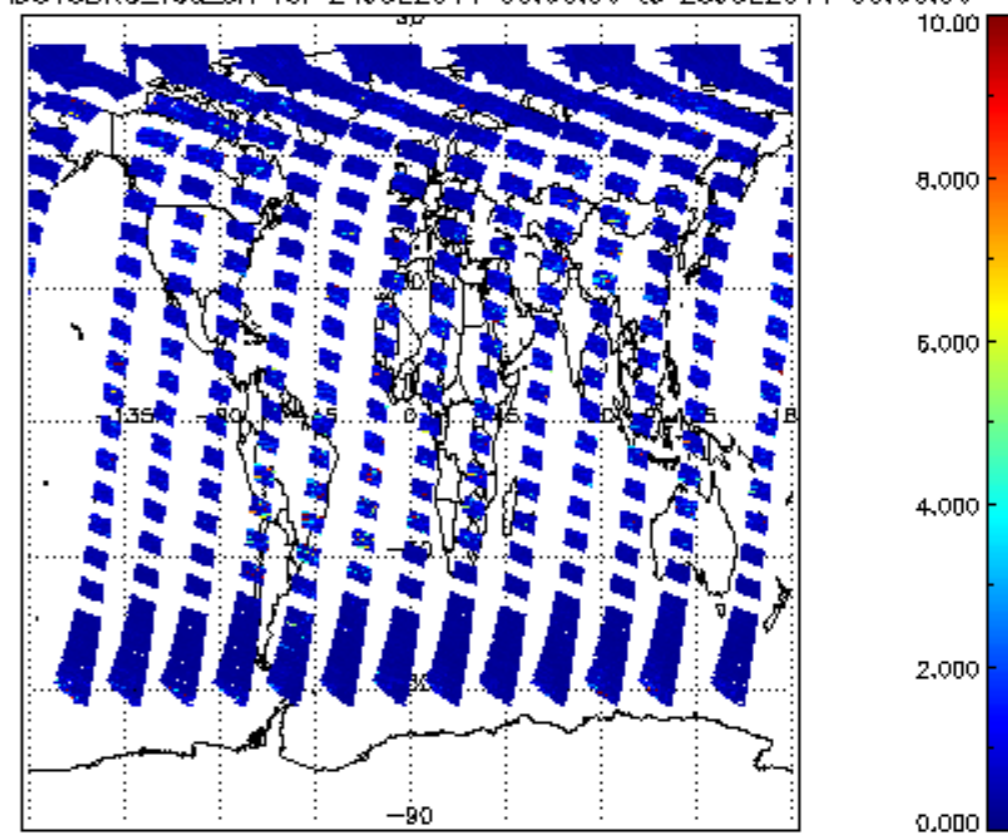




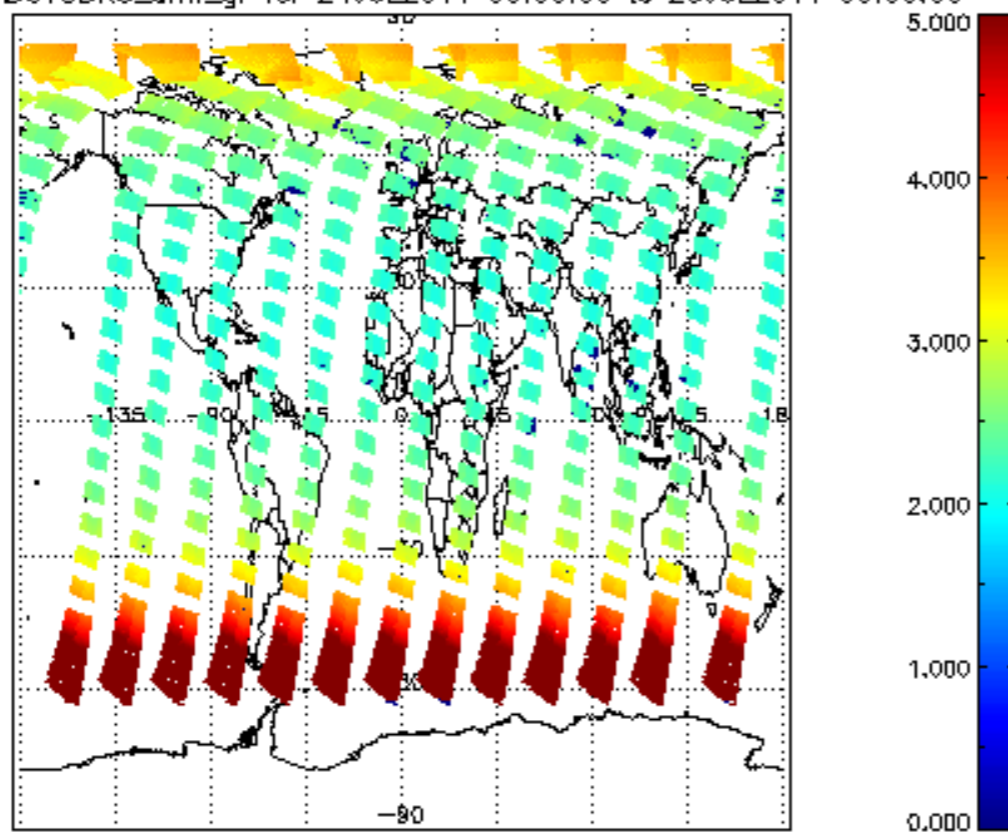
SCIOL2P_NADUV3BRO_vcd for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



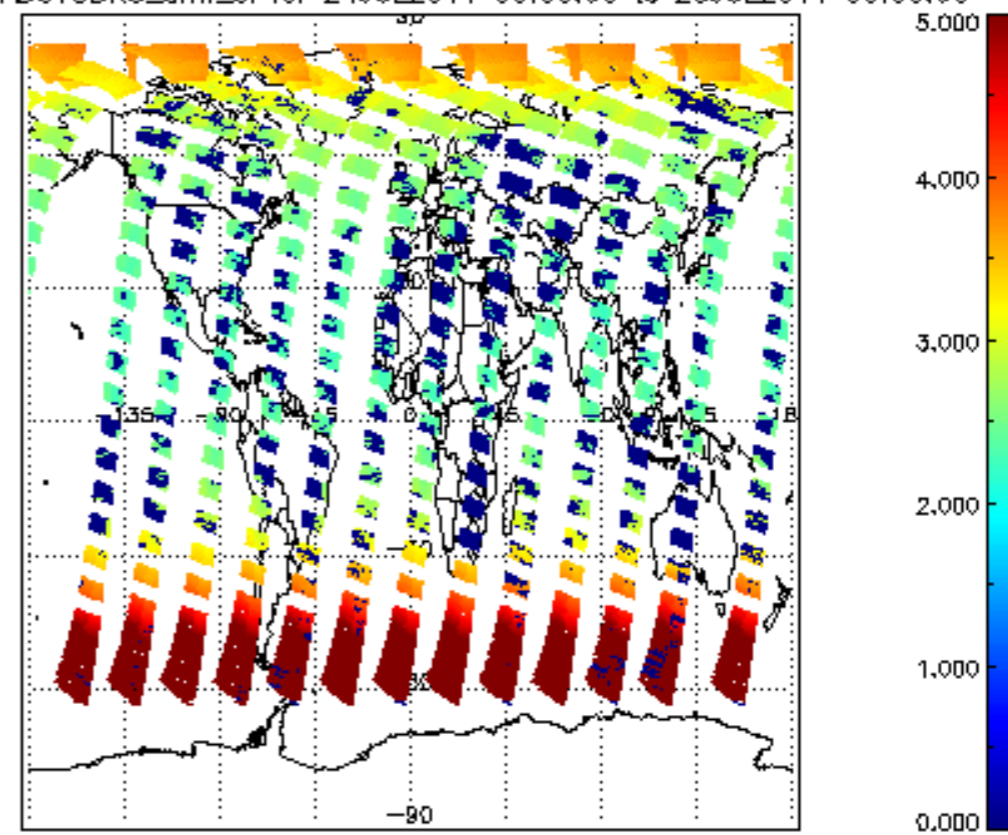
SCIOL2P_NADUV3BRO_vcd_err for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

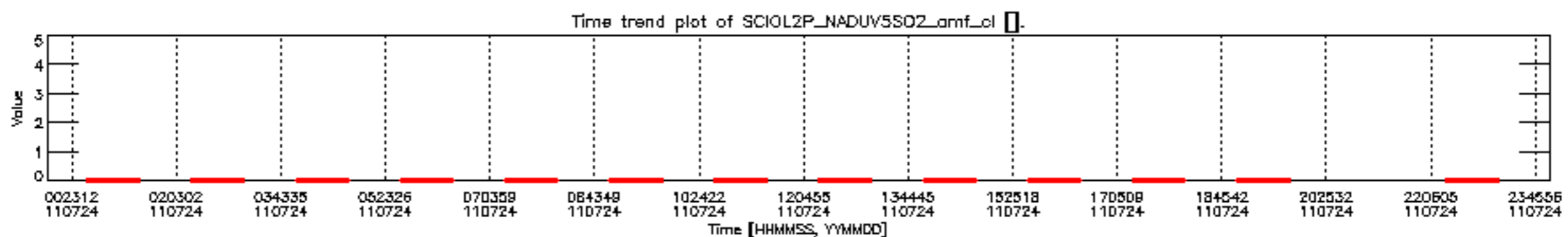
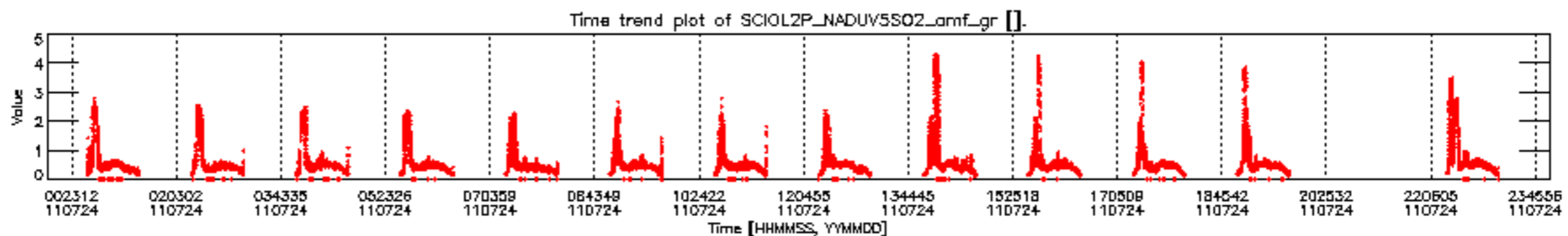
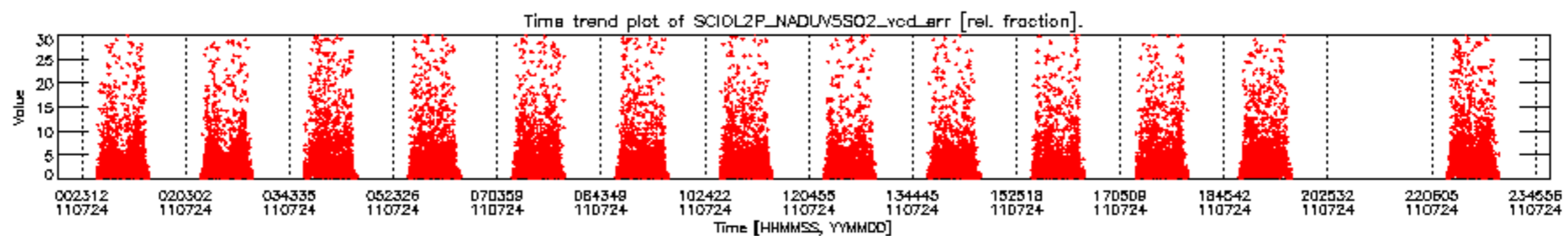
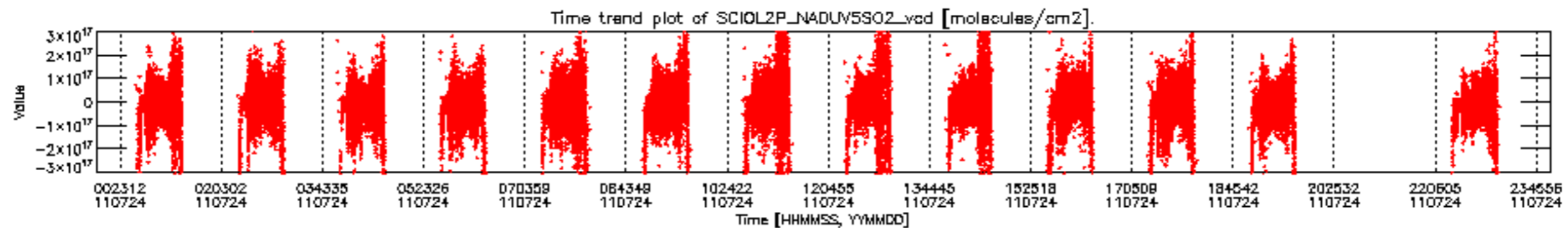


SCIOL2P_NADUV3BRO_arnf_gr for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

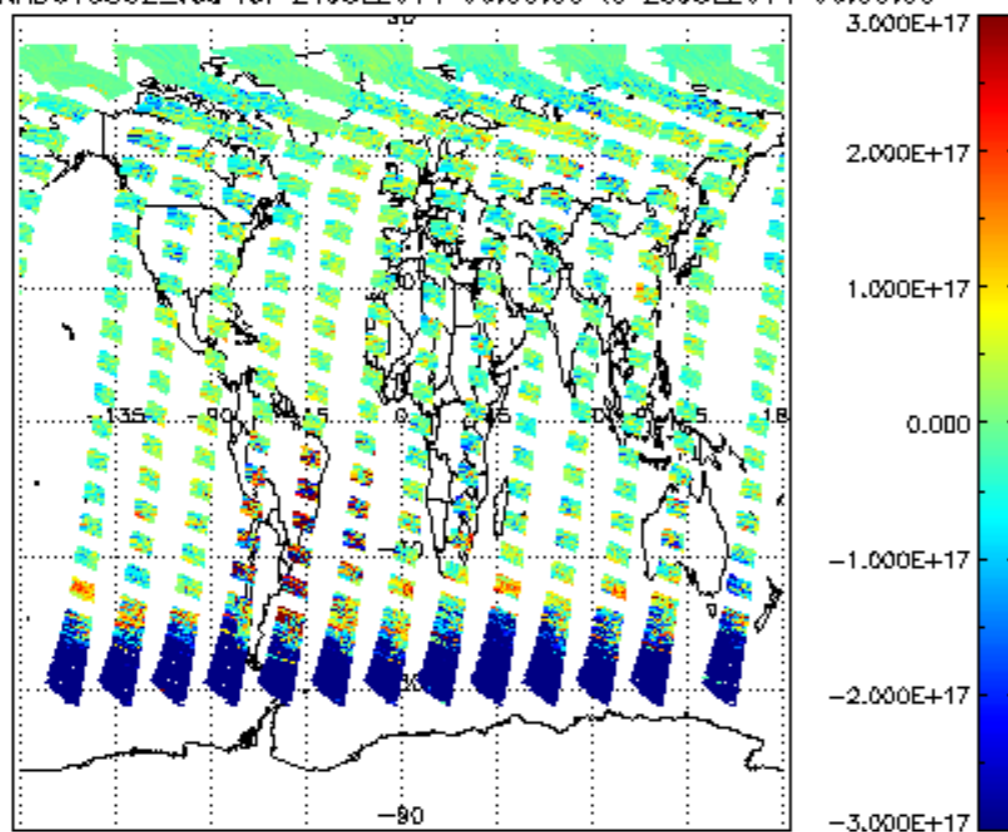


SCIOL2P_NADUV3BRO_arnf_cl for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

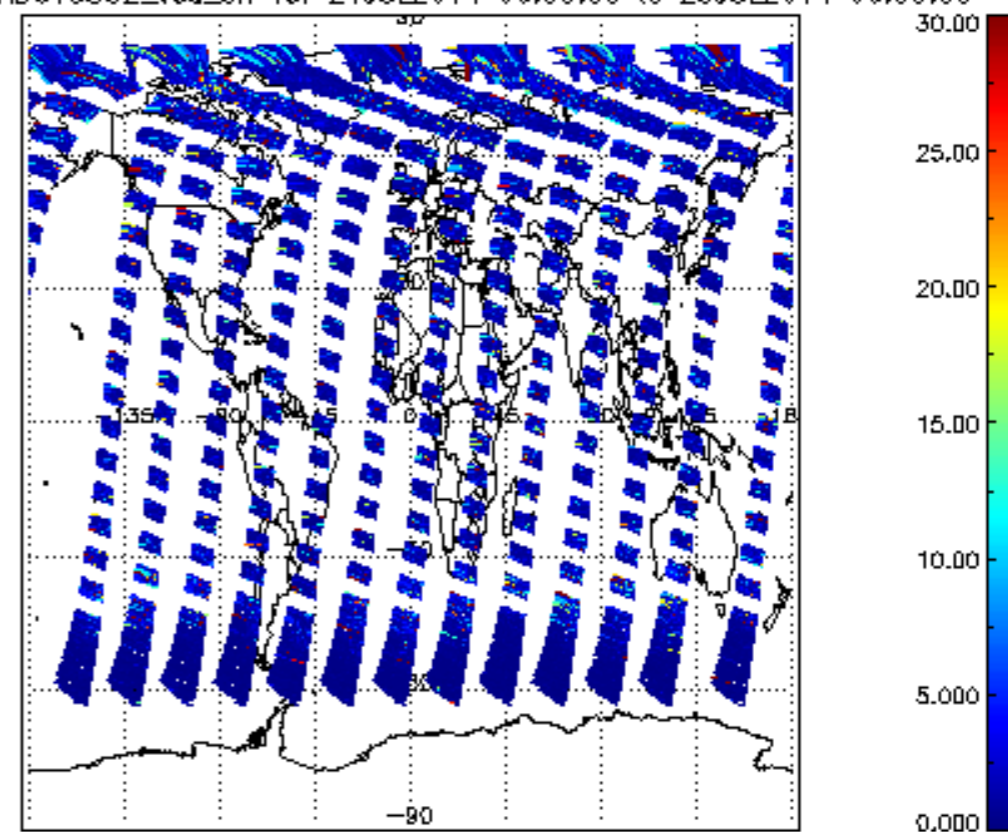




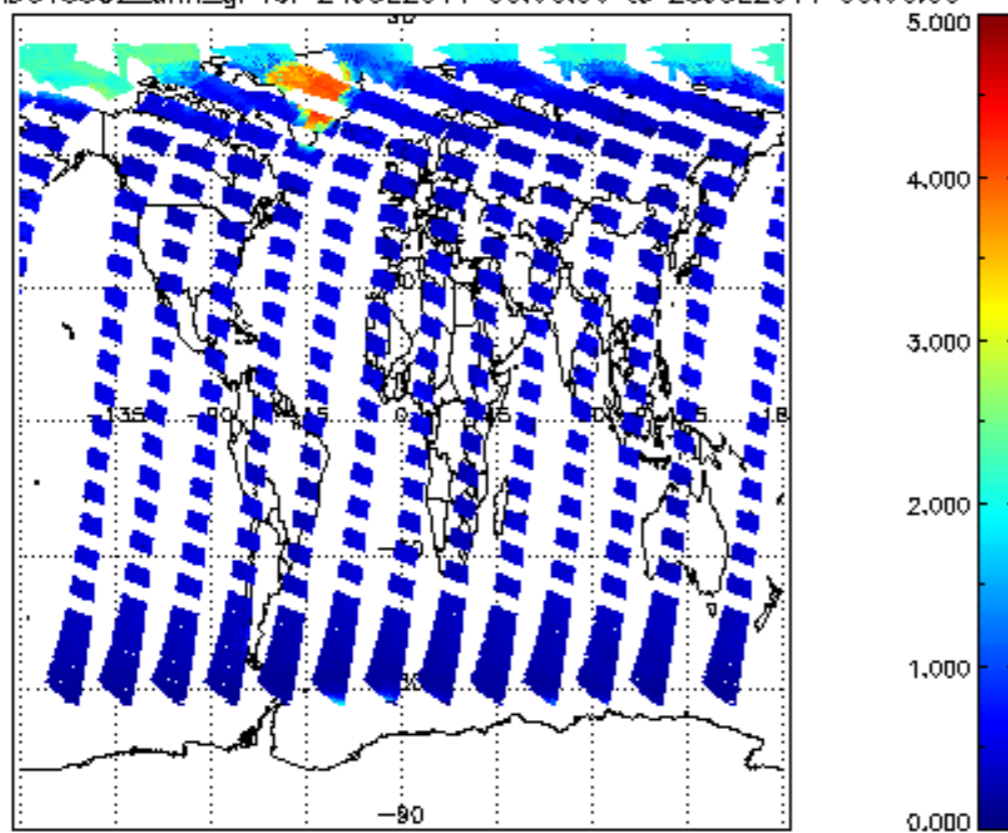
SCIOL2P_NADUV5S02_vcd for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



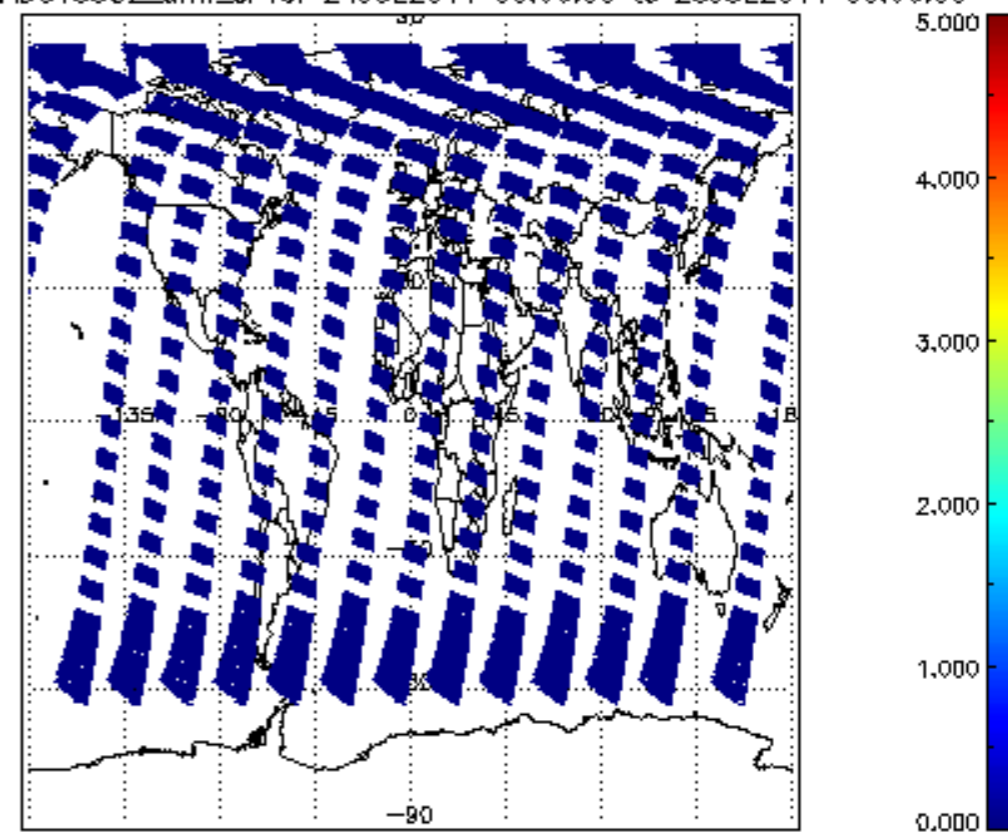
SCIOL2P_NADUV5S02_vcd_err for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

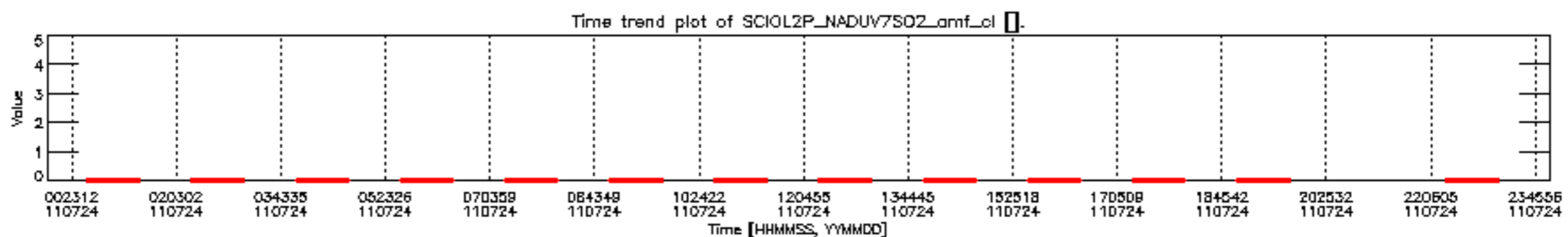
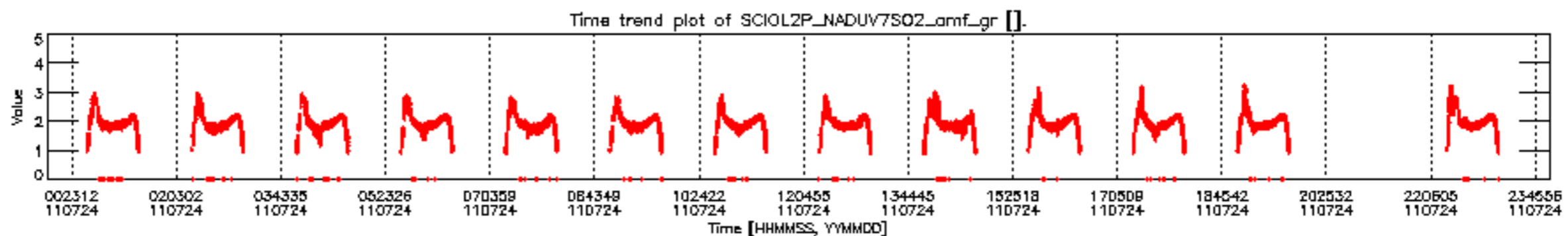
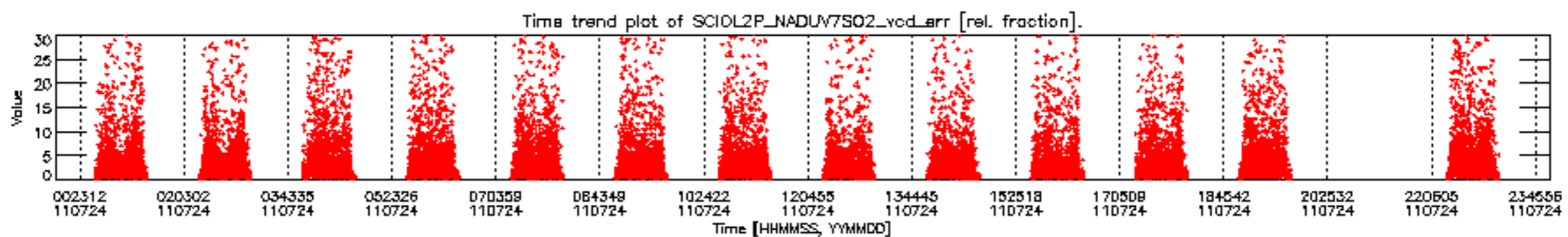
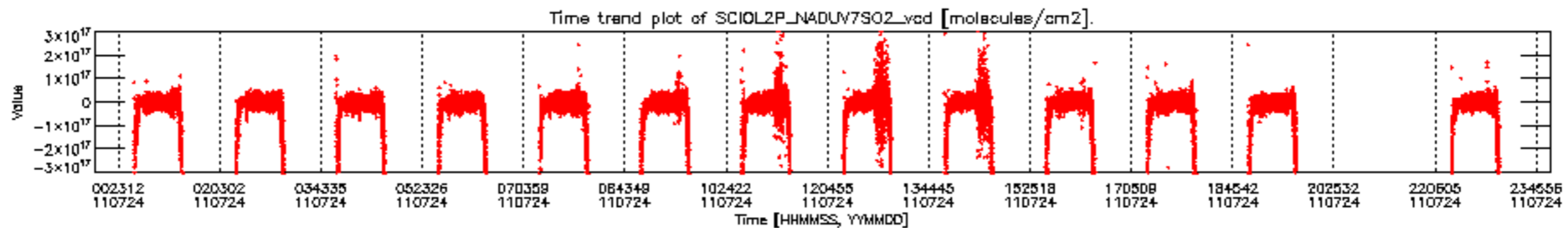


SCIOL2P_NADUV5S02_amf_gr for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

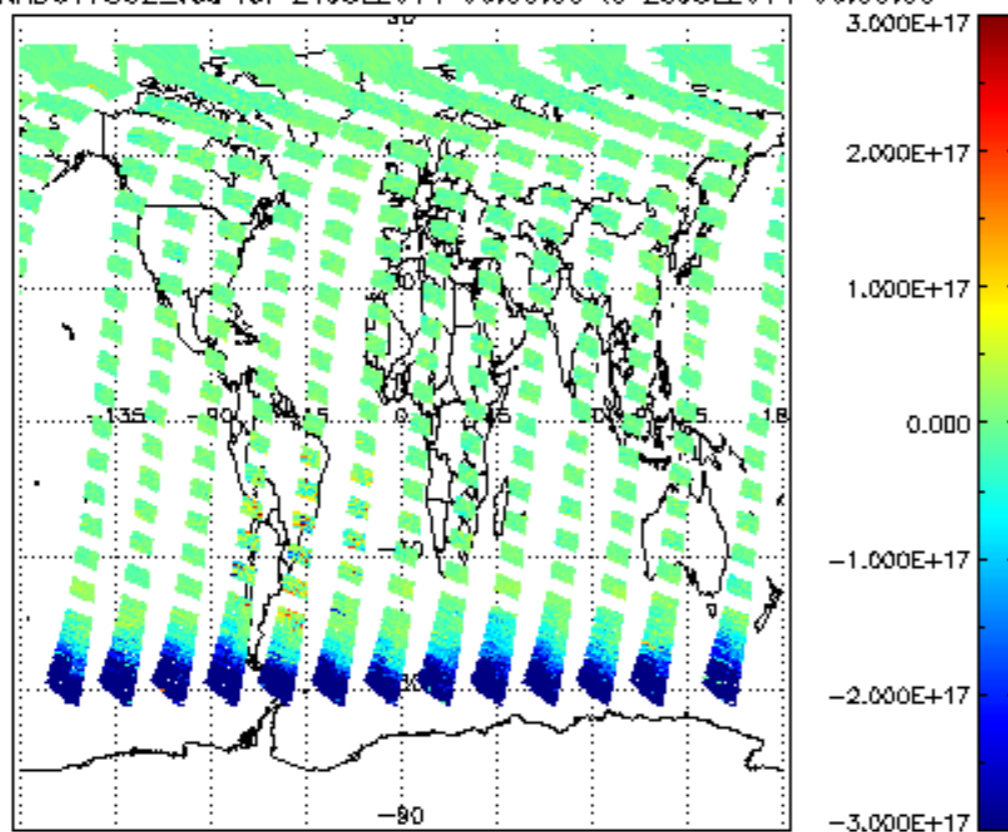


SCIOL2P_NADUV5S02_amf_cl for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

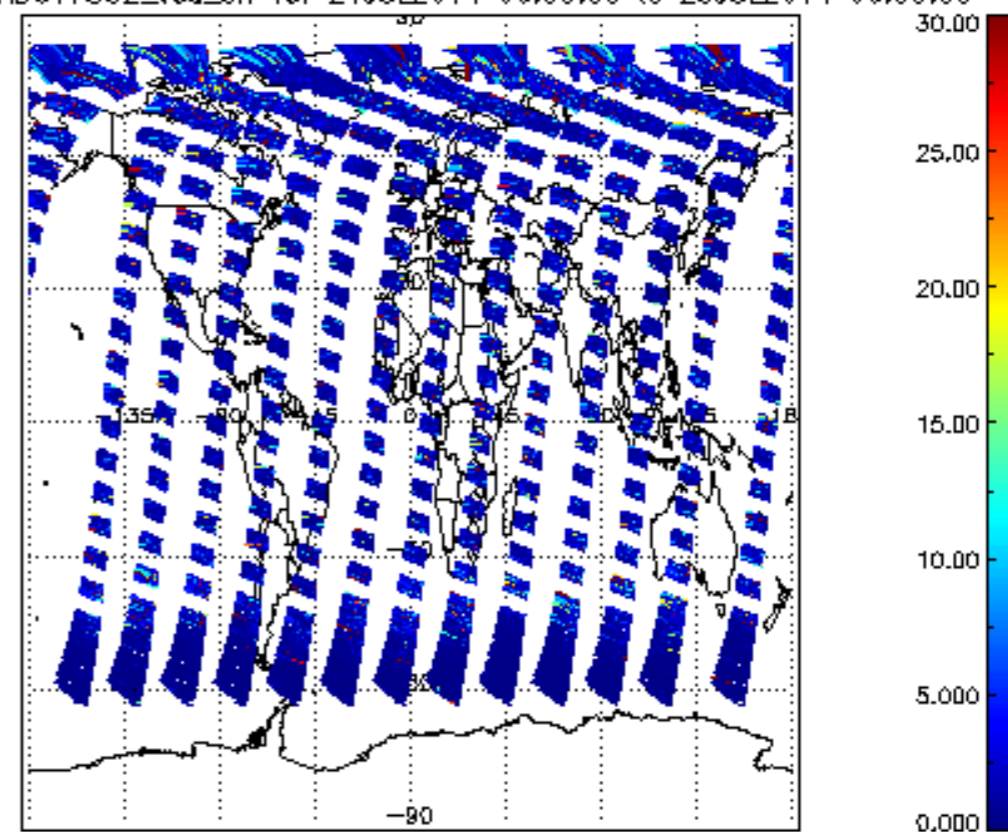




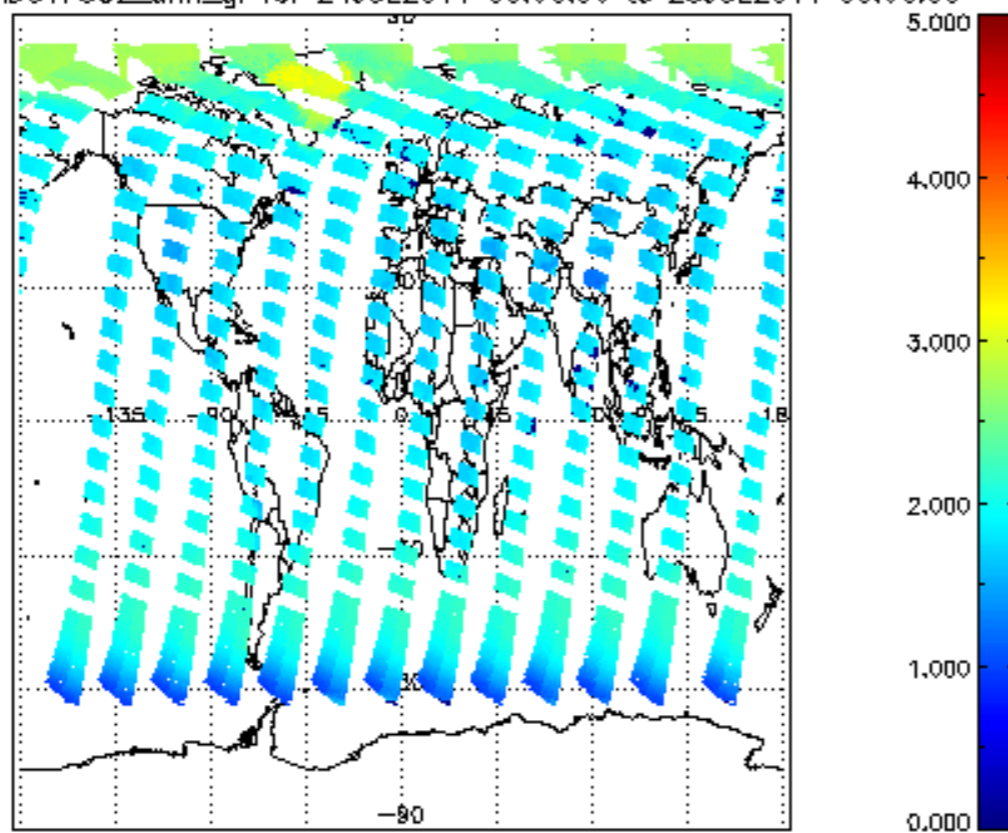
SCIOL2P_NADUV7S02_vcd for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



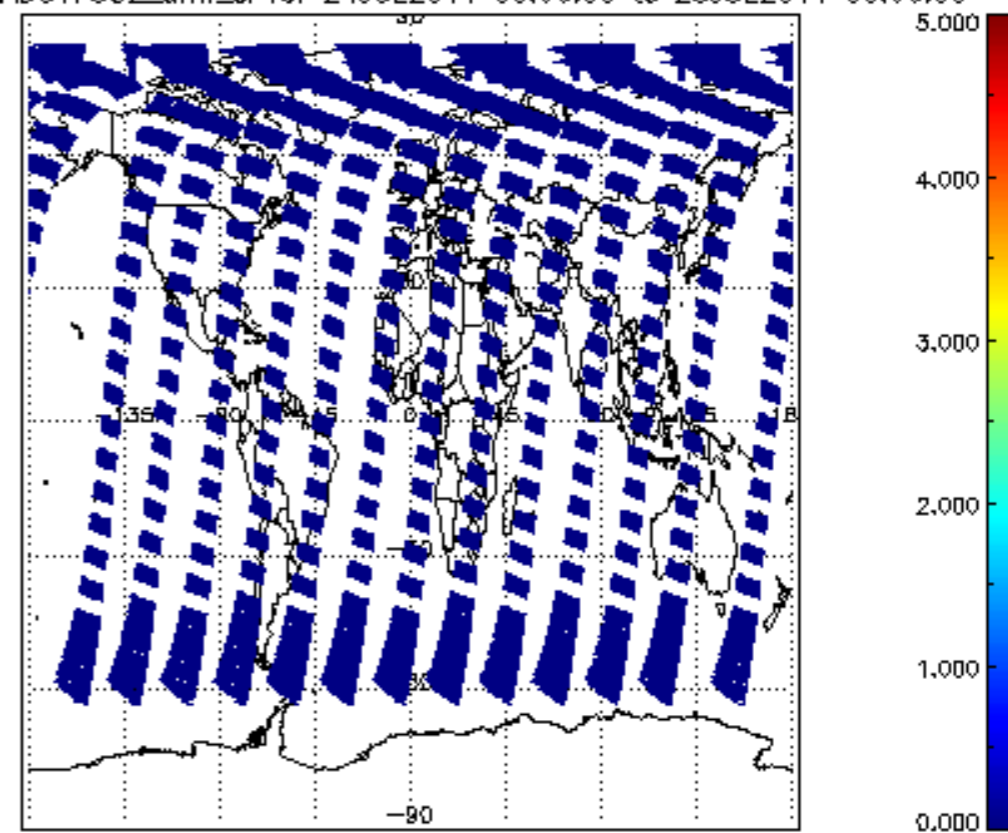
SCIOL2P_NADUV7S02_vcd_err for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

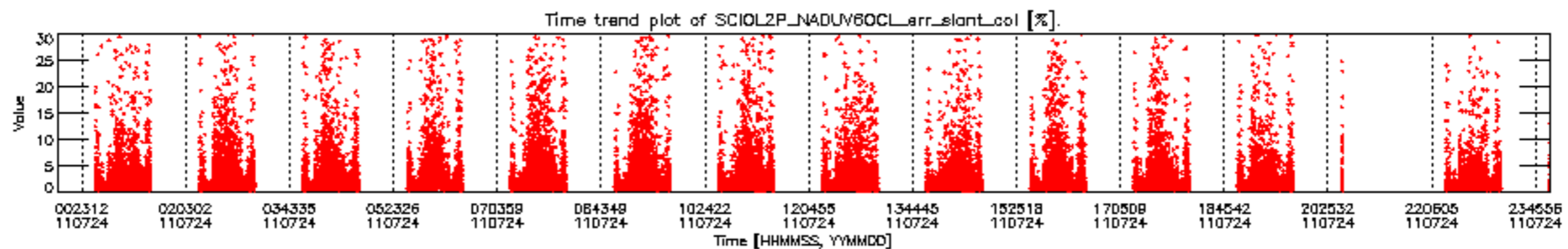
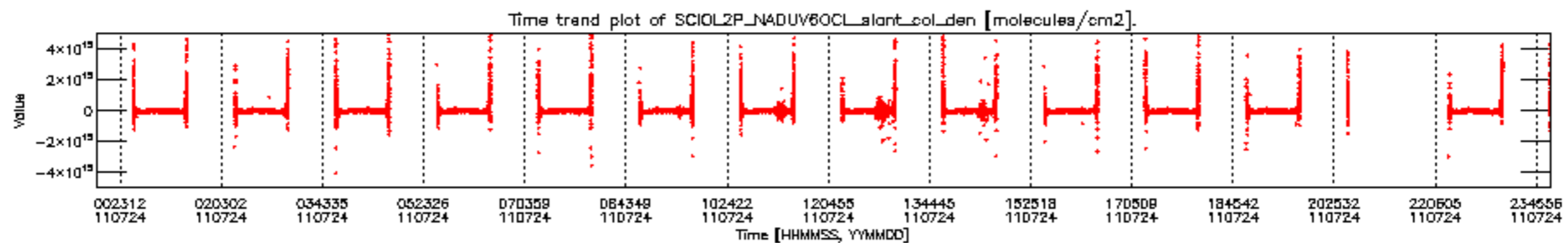


SCIOL2P_NADUV7S02_amf_gr for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

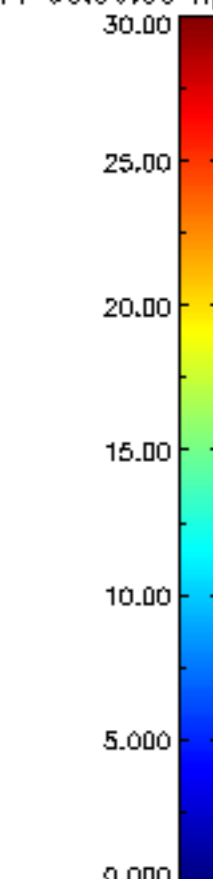
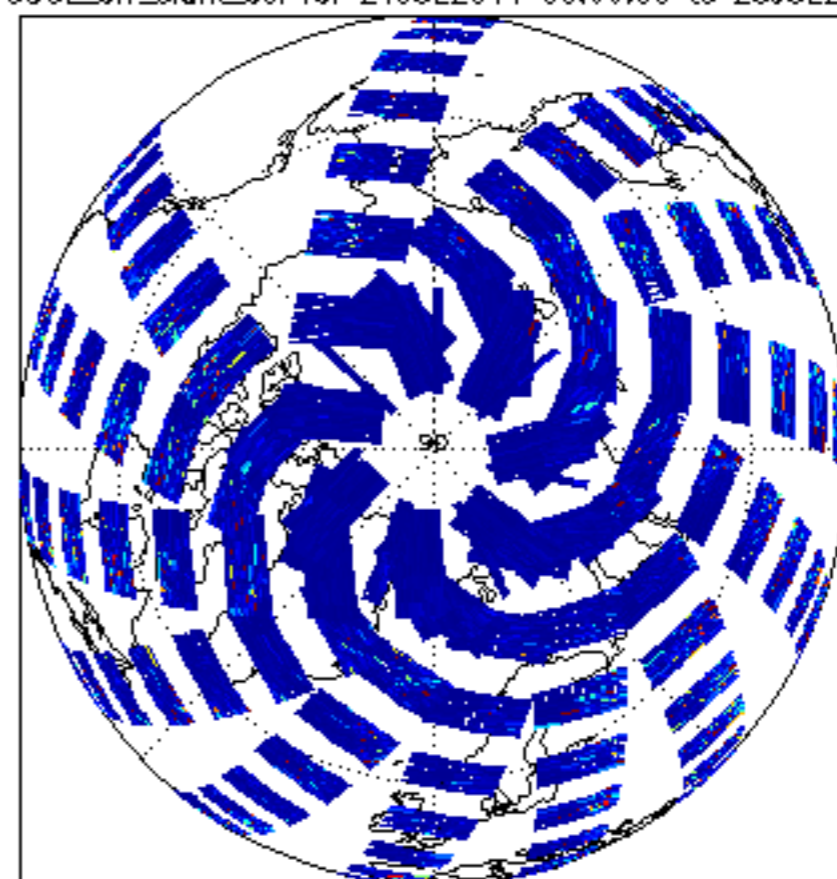
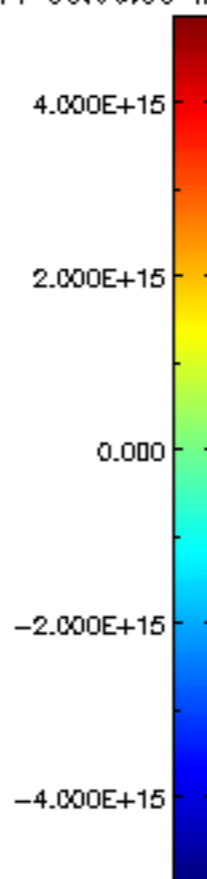
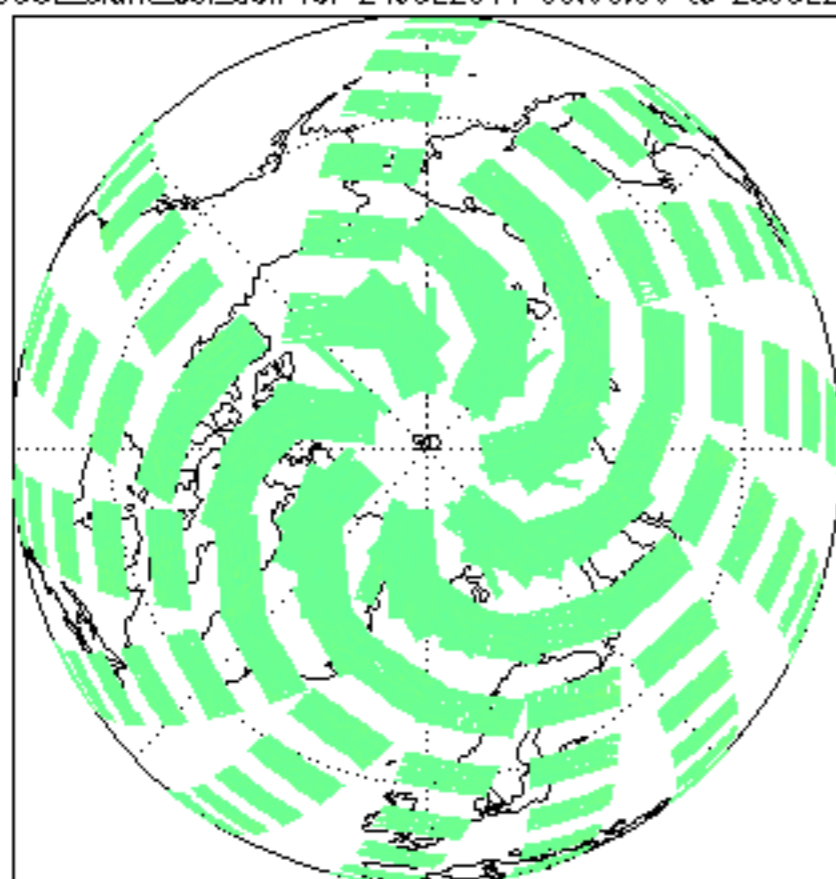


SCIOL2P_NADUV7S02_amf_cl for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

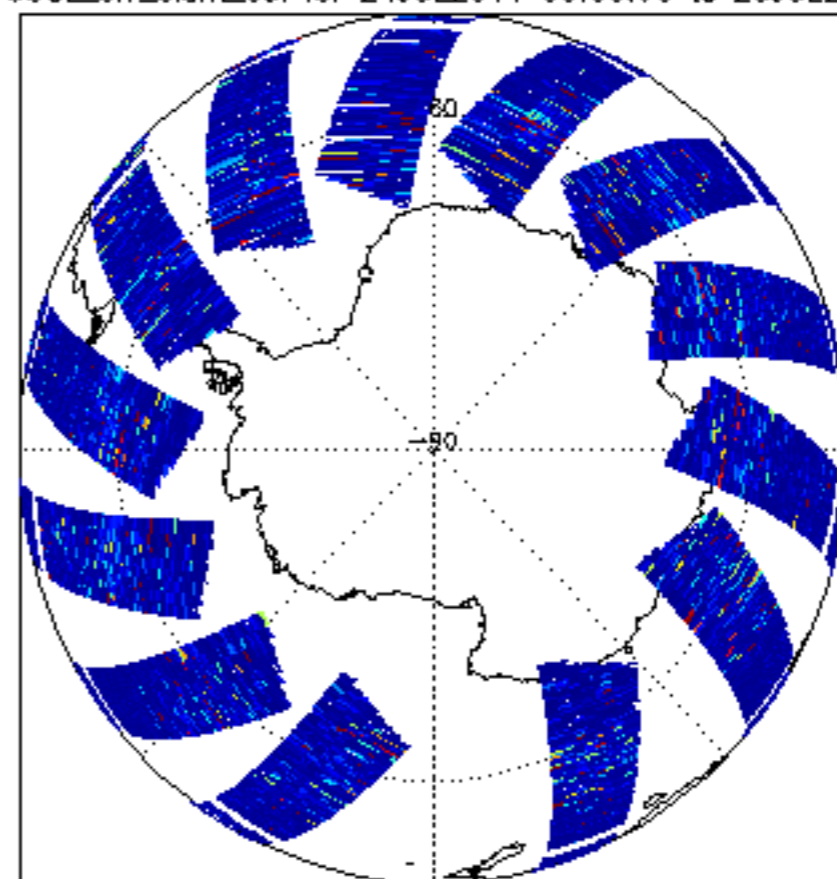
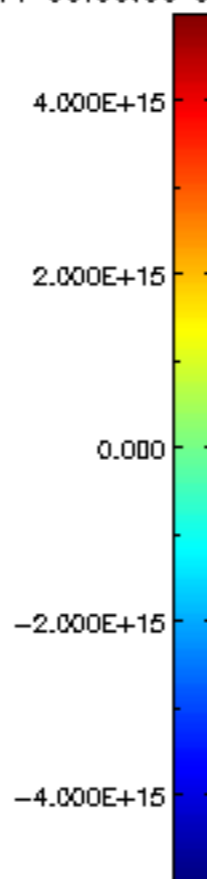
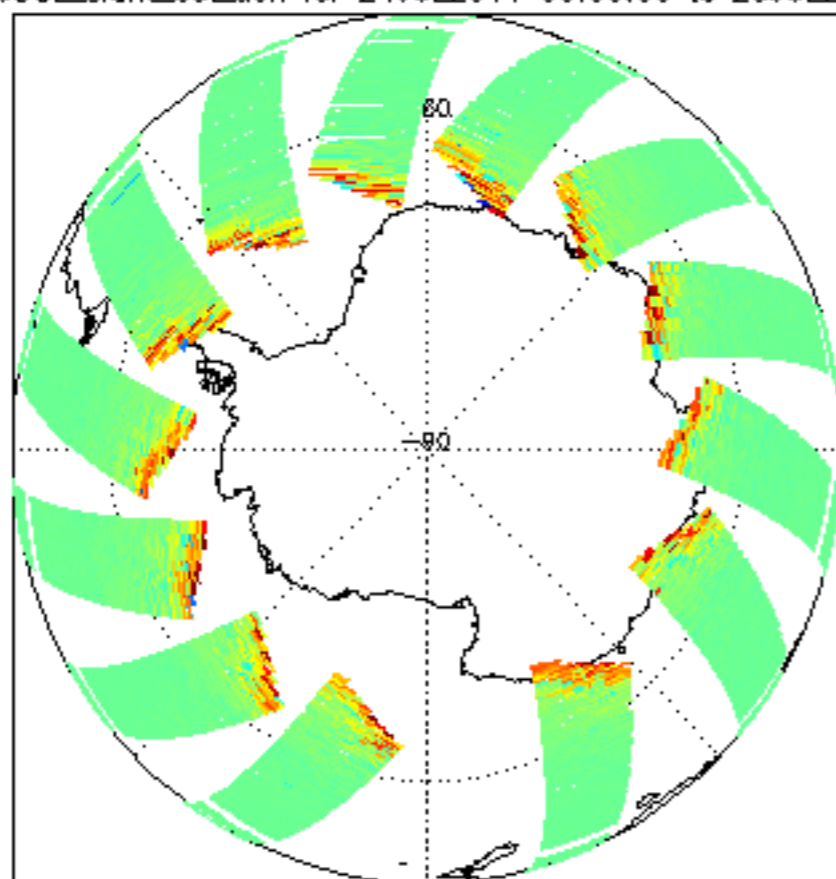




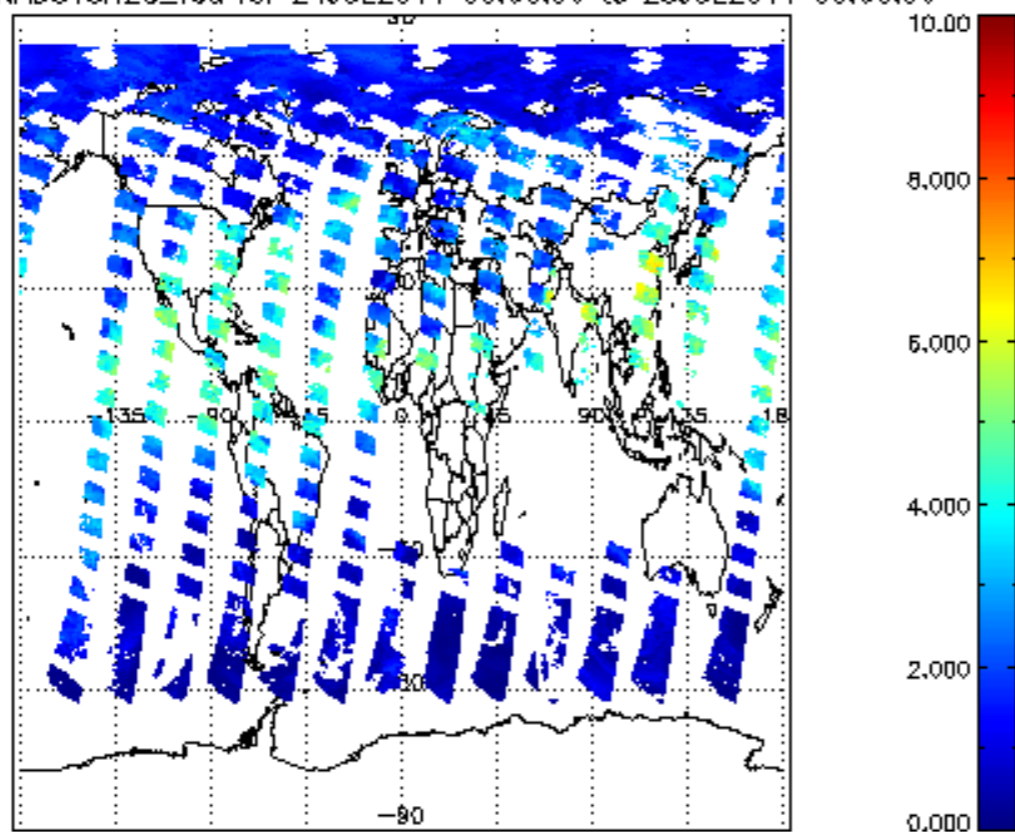
iCIOL2P_NADUV6OCL_slant_col_den for 24JUL2011 00:00:00 to 25JUL2011 00:00:00 np 3iCIOL2P_NADUV6OCL_err_slant_col for 24JUL2011 00:00:00 to 25JUL2011 00:00:00 np



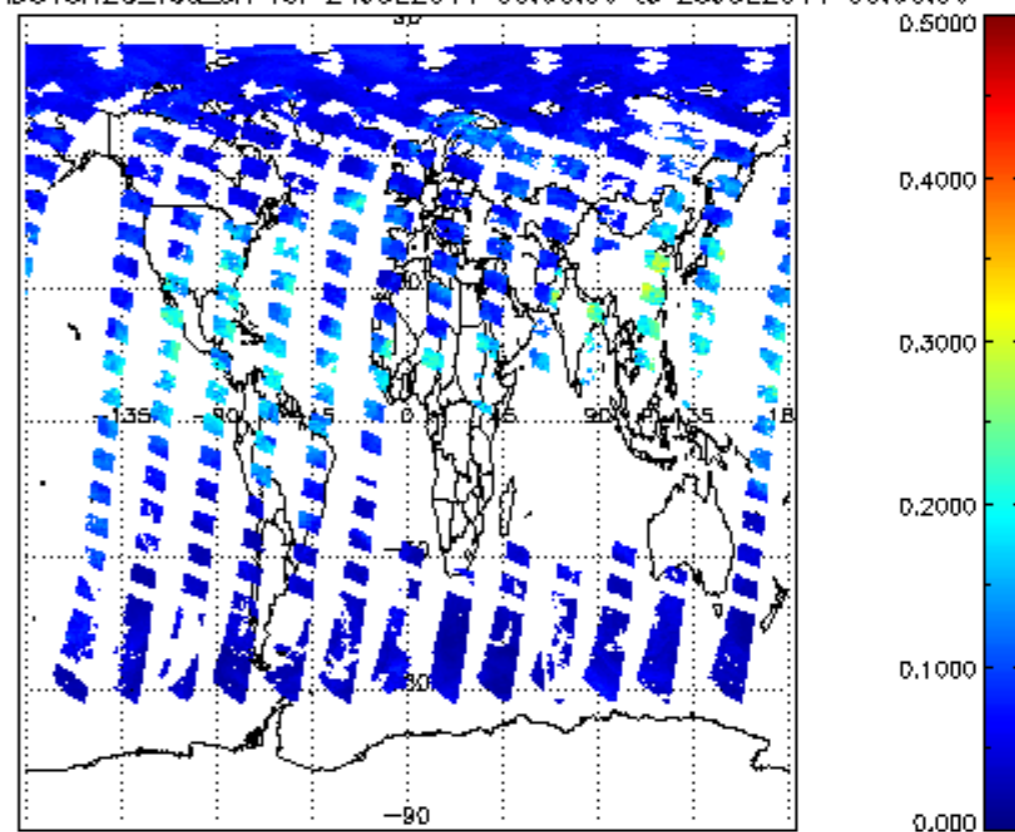
iCIOL2P_NADUV6OCL_slant_coLden for 24JUL2011 00:00:00 to 25JUL2011 00:00:00 sp }iCIOL2P_NADUV6OCL_em_slant_col for 24JUL2011 00:00:00 to 25JUL2011 00:00:00 sp



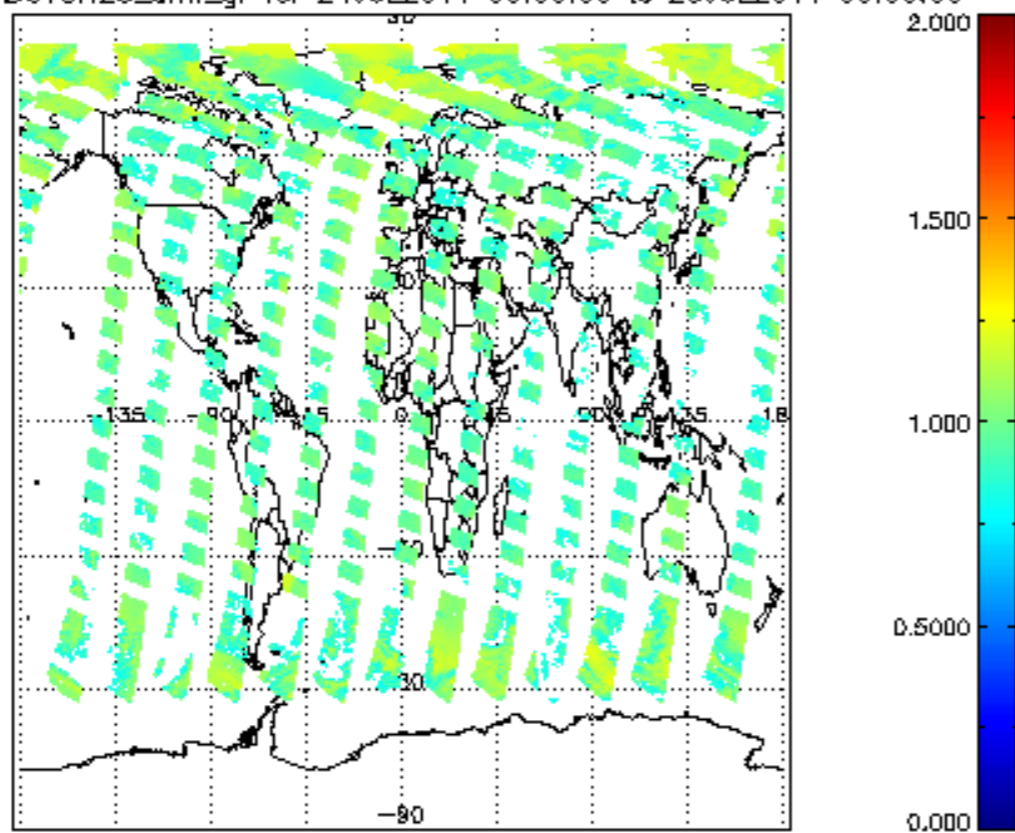
SCIOL2P_NADUV8H20_vcd for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

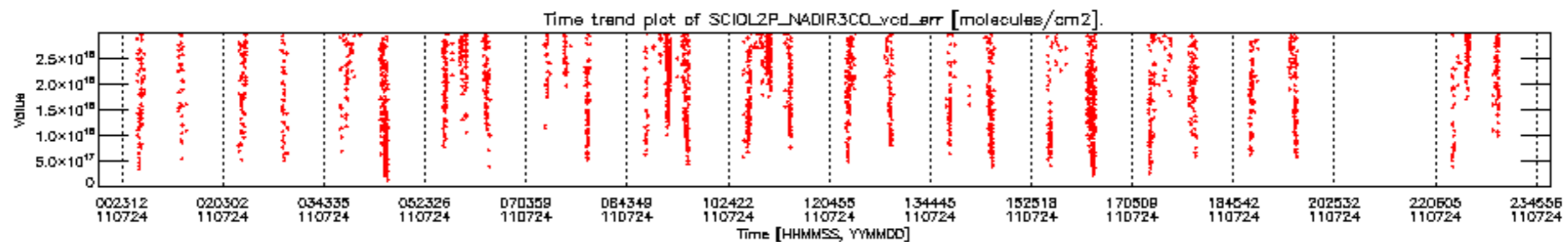
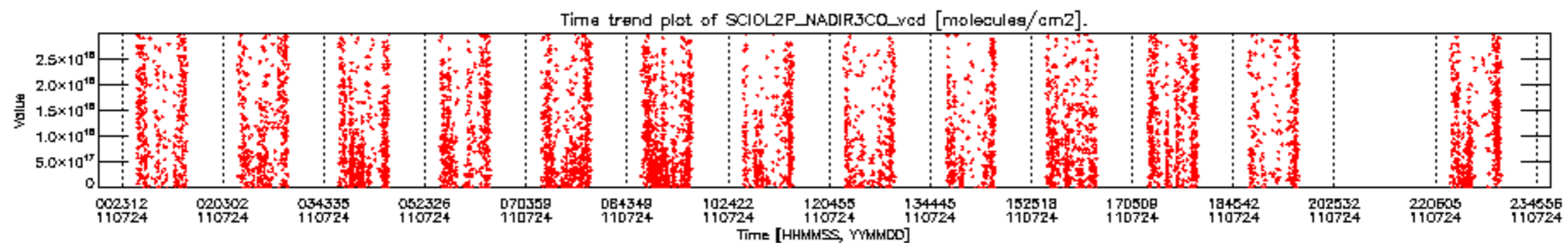


SCIOL2P_NADUV8H20_vcd_err for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

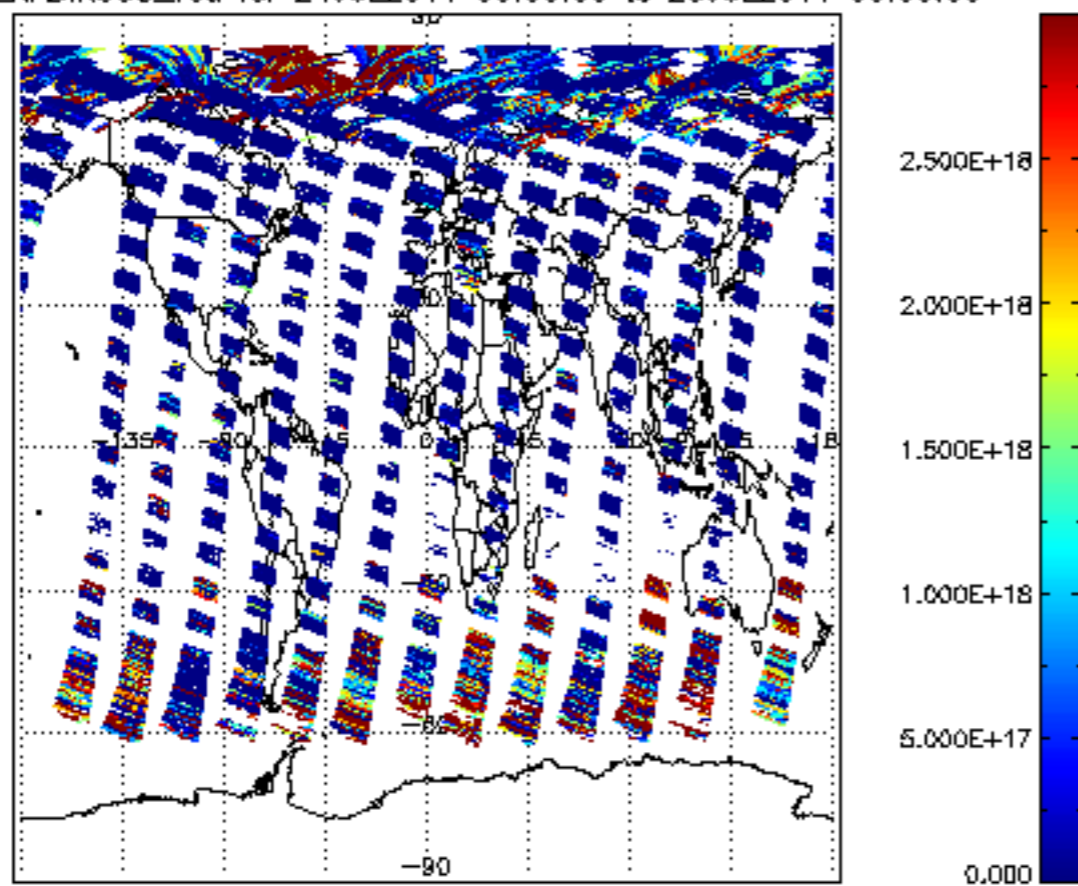


SCIOL2P_NADUV8H20_amf_gr for 24JUL2011 00:00:00 to 25JUL2011 00:00:00

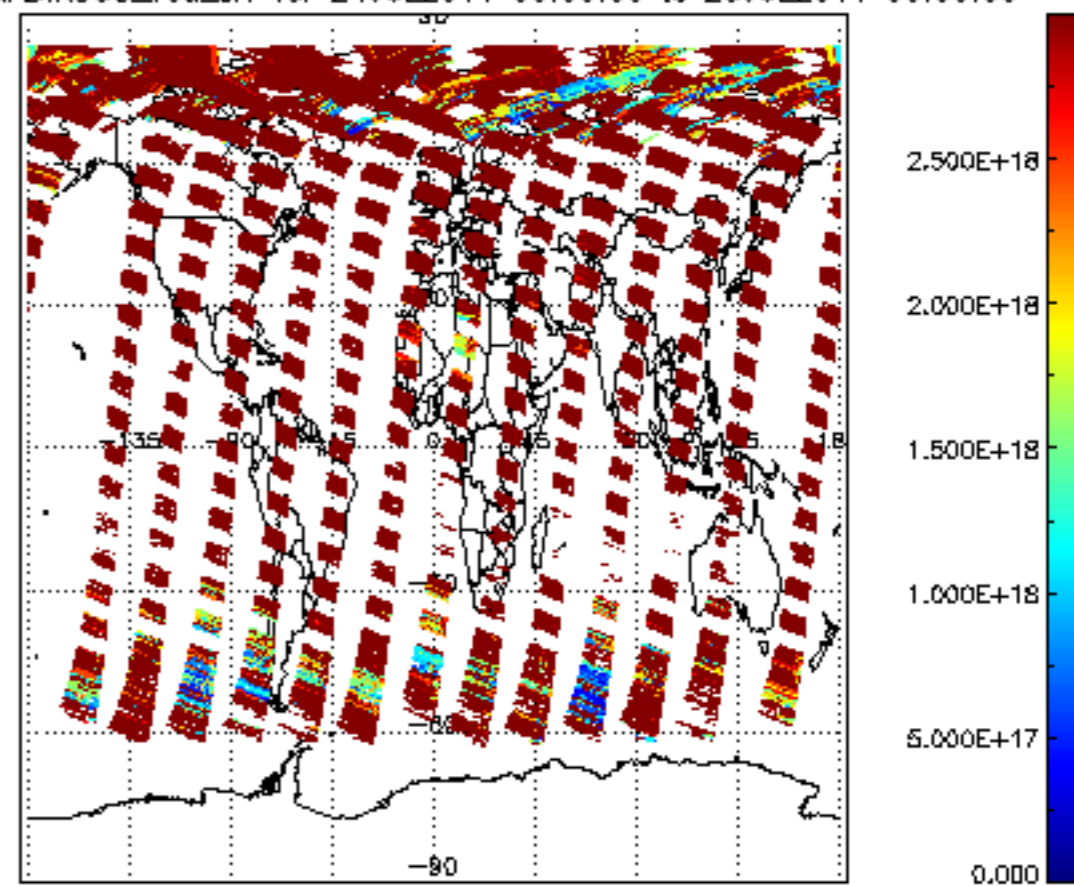




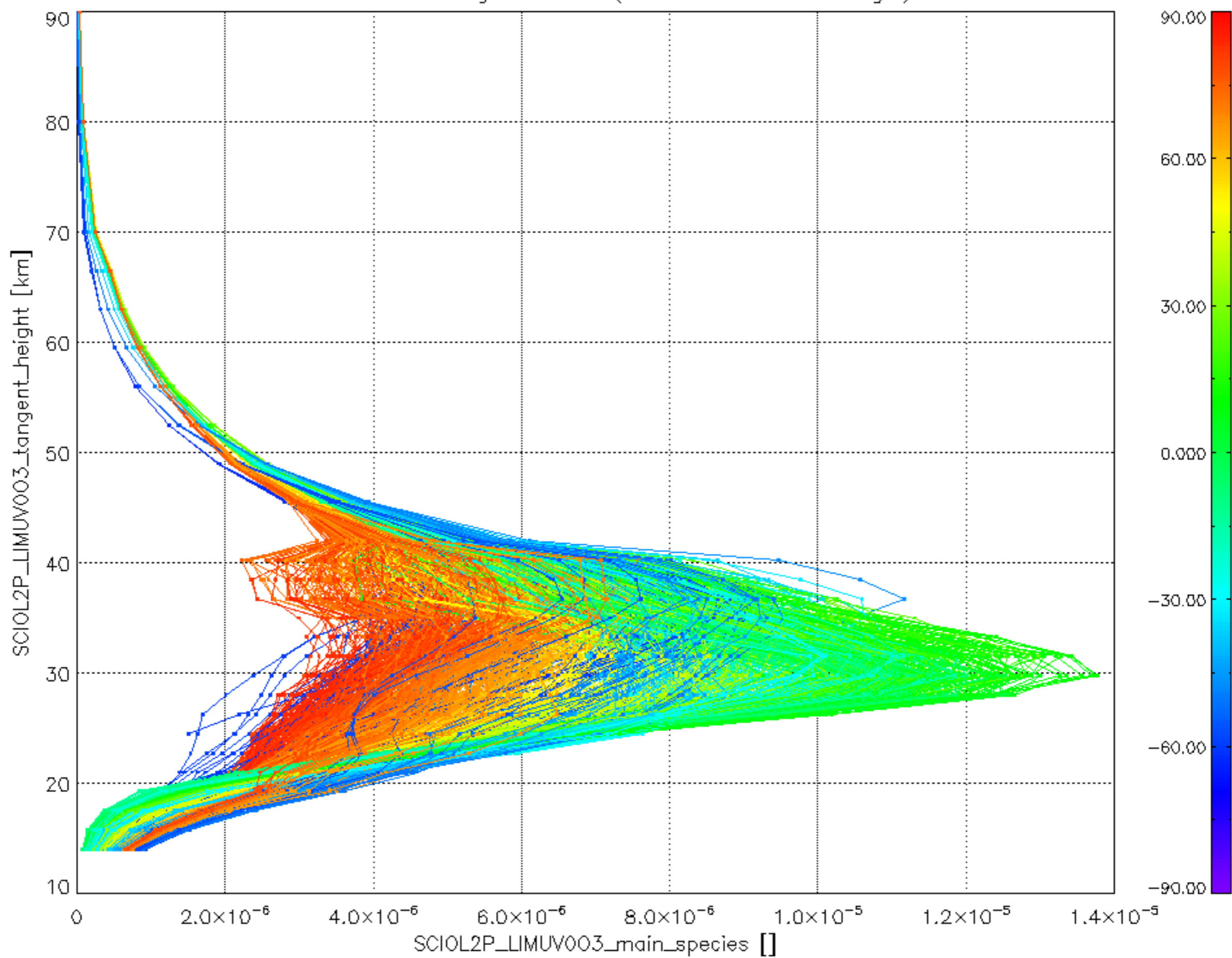
SCIOL2P_NADIR3CO_vcd for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



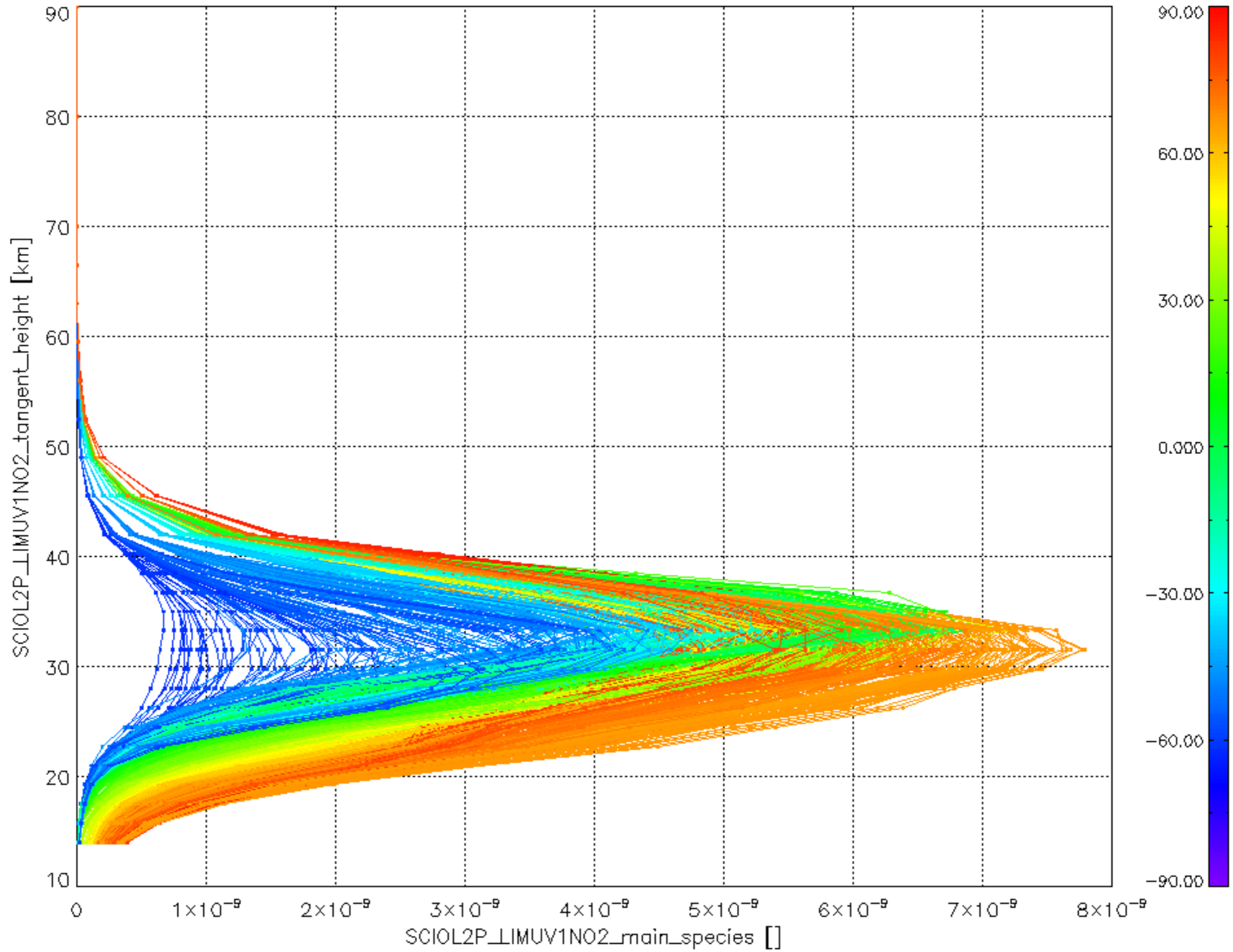
SCIOL2P_NADIR3CO_vcd_err for 24JUL2011 00:00:00 to 25JUL2011 00:00:00



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).

