

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	29JUL2011 03:00:26
Data source version	SCIA-OL/5.01-U
Processing scope for products	16JUL2011 00:00:00 to 17JUL2011 00:00:00
Start time of first product within scope	15JUL2011 22:43:43
Stop time of last product within scope	16JUL2011 15:45:06
Total number of level 2 products	11
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__2PUDPA20110715_224343_000035303104_00303_49024_5611.N1	15JUL2011 22:43:43	15JUL2011 23:42:34	0	GOOD
1	SCI_OL__2PUDPA20110716_002357_000035163104_00304_49025_5606.N1	16JUL2011 00:23:57	16JUL2011 01:22:34	0	GOOD
2	SCI_OL__2PUDPA20110716_020412_000035303104_00305_49026_5612.N1	16JUL2011 02:04:12	16JUL2011 03:03:02	0	GOOD
3	SCI_OL__2PUDPA20110716_034426_000035163104_00306_49027_5615.N1	16JUL2011 03:44:26	16JUL2011 04:43:02	0	GOOD
4	SCI_OL__2PUDPA20110716_052440_000035303104_00307_49028_5620.N1	16JUL2011 05:24:40	16JUL2011 06:23:31	0	GOOD

5	SCI_OL__2PUDPA20110716_070454_000035163104_00308_49029_5616.N1	16JUL2011 07:04:54	16JUL2011 08:03:30	0	GOOD
6	SCI_OL__2PUDPA20110716_084508_000035303104_00309_49030_5613.N1	16JUL2011 08:45:08	16JUL2011 09:43:59	0	GOOD
7	SCI_OL__2PUDPA20110716_102522_000035163104_00310_49031_5608.N1	16JUL2011 10:25:22	16JUL2011 11:23:59	0	GOOD
8	SCI_OL__2PUDPA20110716_120536_000035303104_00311_49032_5609.N1	16JUL2011 12:05:36	16JUL2011 13:04:27	0	GOOD
9	SCI_OL__2PUDPA20110716_134551_000035163104_00312_49033_5610.N1	16JUL2011 13:45:51	16JUL2011 14:44:27	0	GOOD
10	SCI_OL__2PUDPA20110716_152605_000011403104_00313_49034_5602.N1	16JUL2011 15:26:05	16JUL2011 15:45:06	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: 109460

Total number of cloud data DSRs with good quality flag (=0): 109460 (100.0 %)

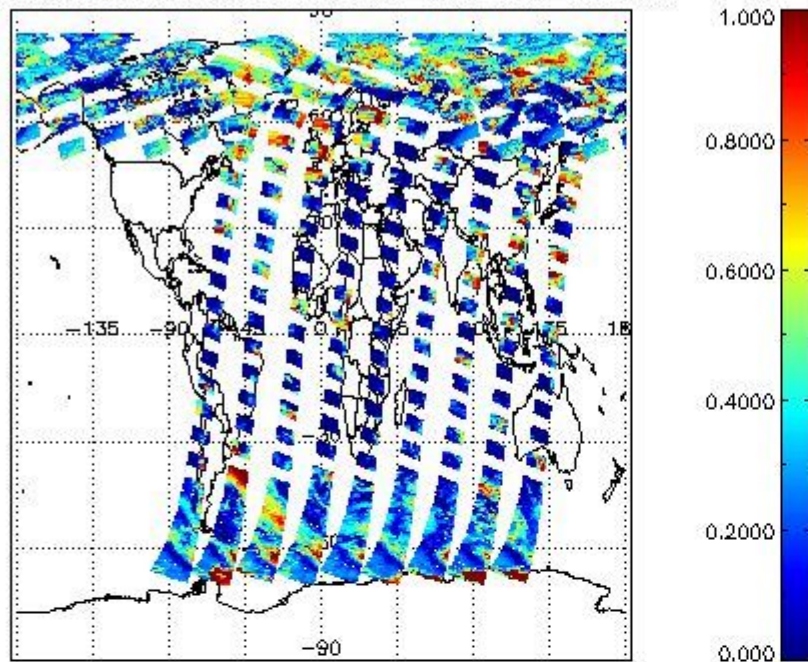
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	109460	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	109460	0.16390	0.12500	0.12500	0.25000	0.057871	s
CL_FRAC	109460	0.30409	0.25694	0.0000	1.0000	0.27004	
CL_FRAC_ERR	109460	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	109460	5.2447	4.0000	4.0000	8.0000	1.8519	
PMD_READ_CL[0]	109460	0.26014	0.0000	0.0000	8.0000	1.0844	-
PMD_READ_CL[1]	109460	1.4973	0.0000	0.0000	8.0000	2.5703	-
CL_TOP_HEIGHT	84557	3.4791	1.5151	0.0000	17.000	3.8623	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	84557	61.969	100.00	0.0000	101.00	43.947	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	109460	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	109460	11001110	11000100	11000000	11100000	3654.5	
AERO_ABSO_IND	109460	0.21768	0.0000	0.0000	5.7310	0.51681	
AERO_IND_DIAG	109460	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	109460	01010000	00000000	00000000	11000000	24268.	

Time and geolocation plots:

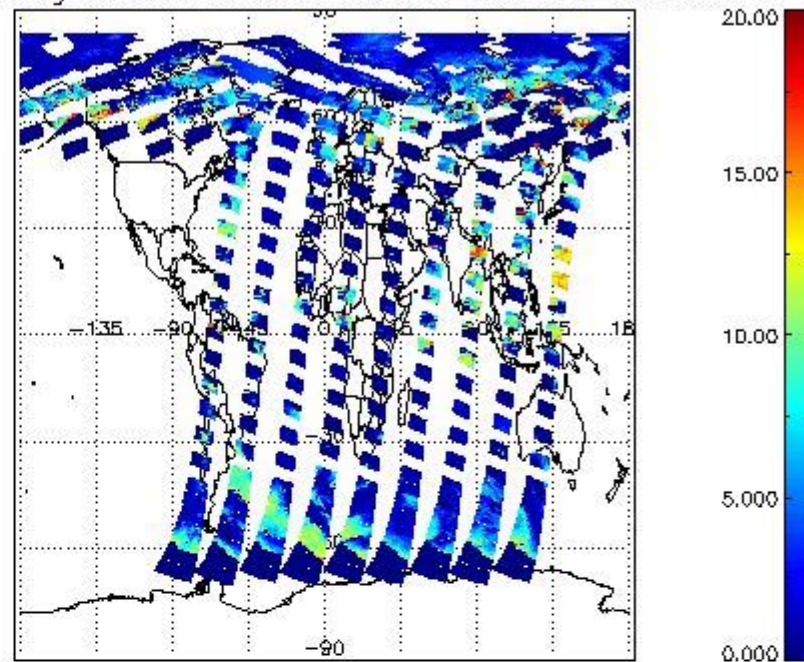
Plots are available for the following parameters:

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

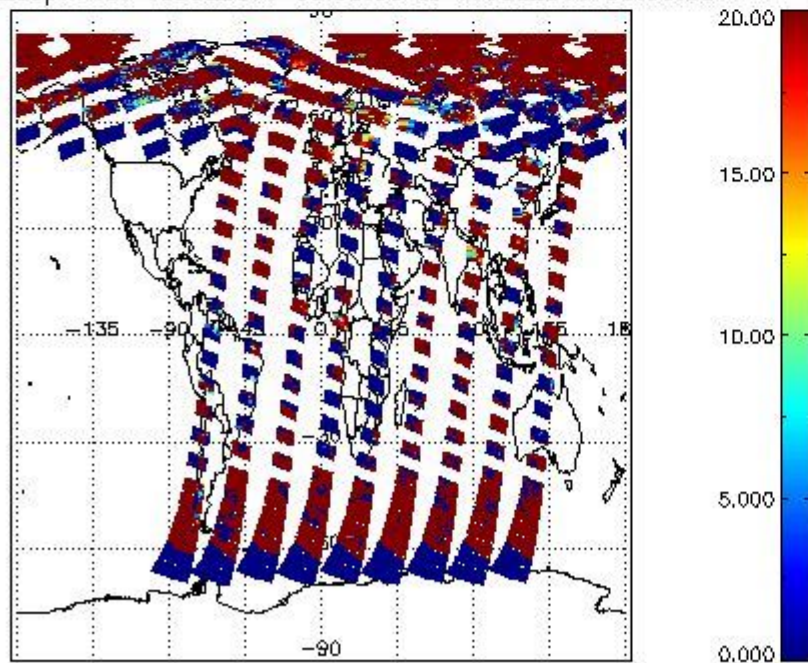
cL_frac for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



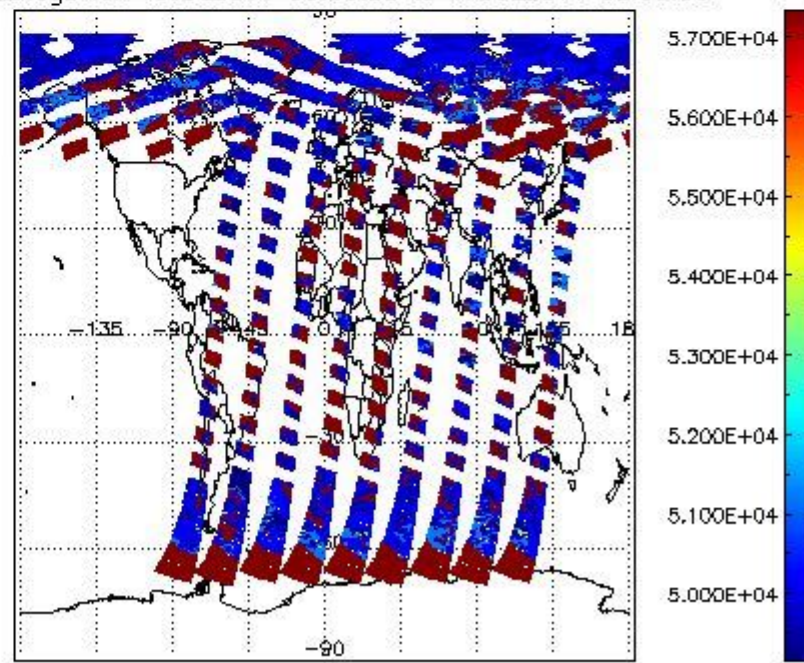
cL_top_height for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



cL_opt_depth for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



cloud_flags for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



2.2.2 Nadir

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

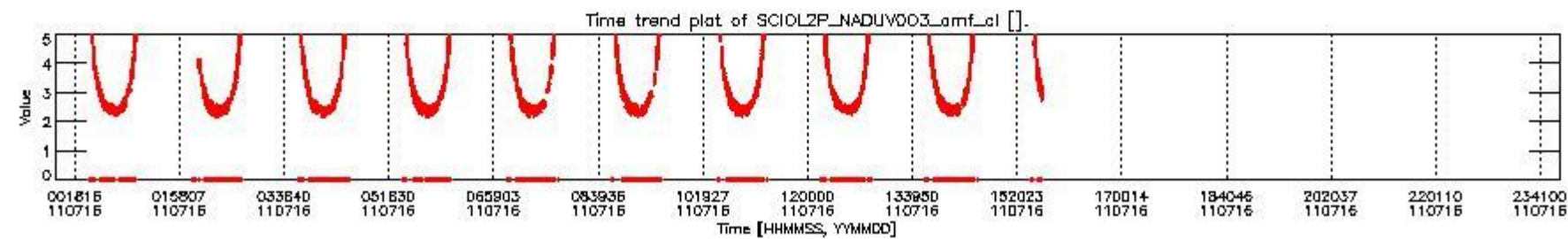
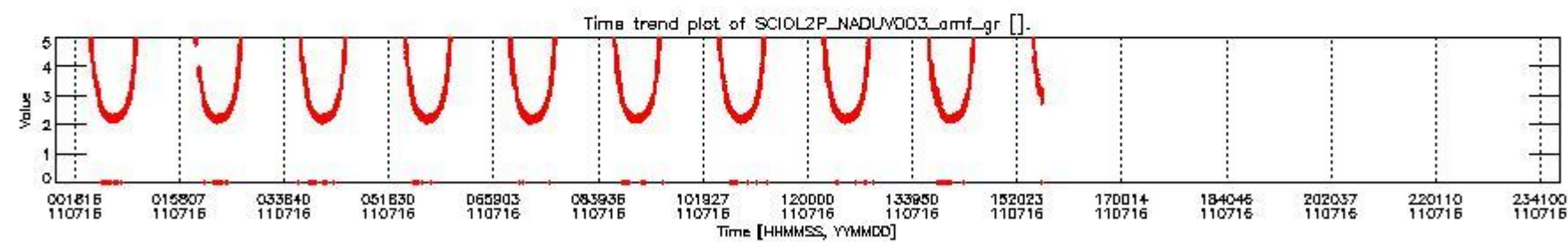
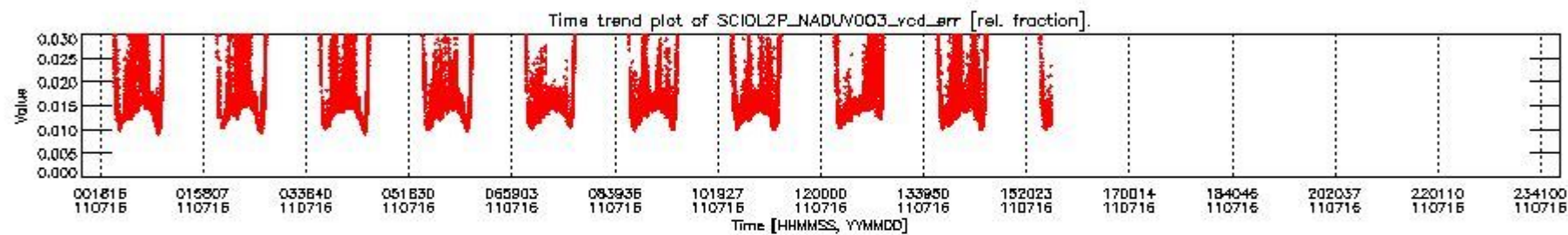
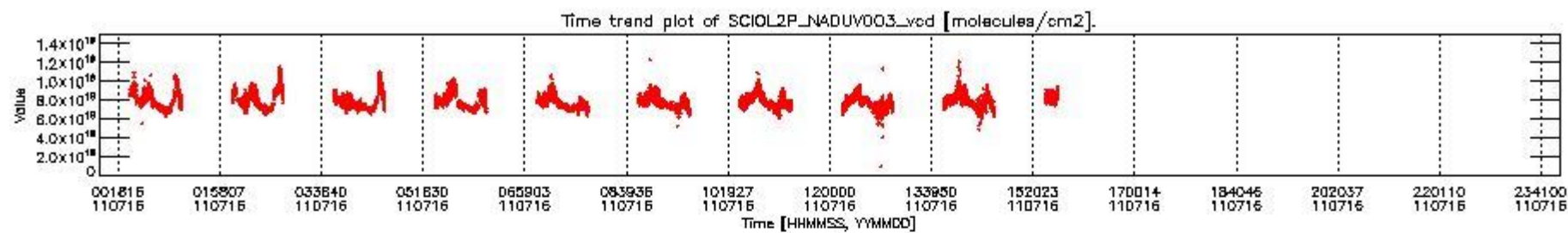
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

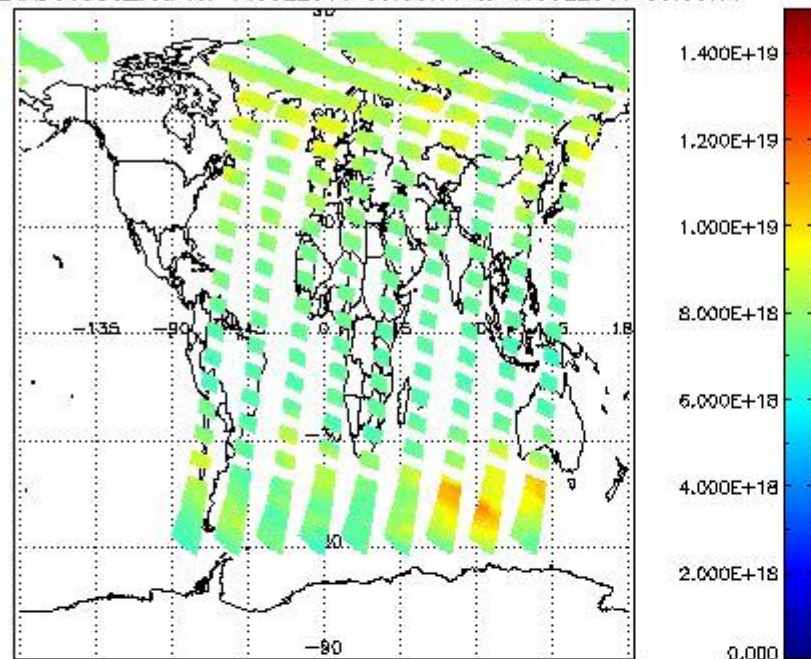
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

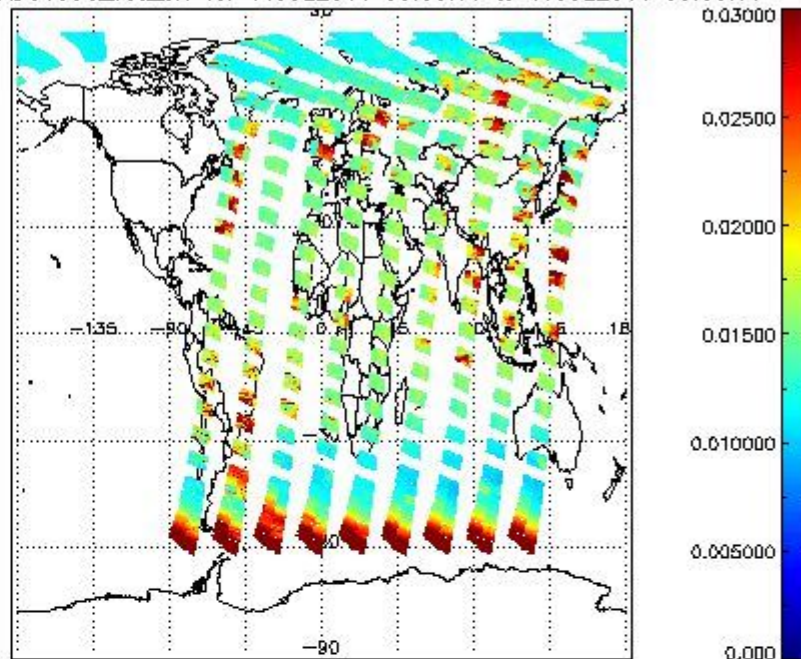
2.2.2.1 O3 (UV0)



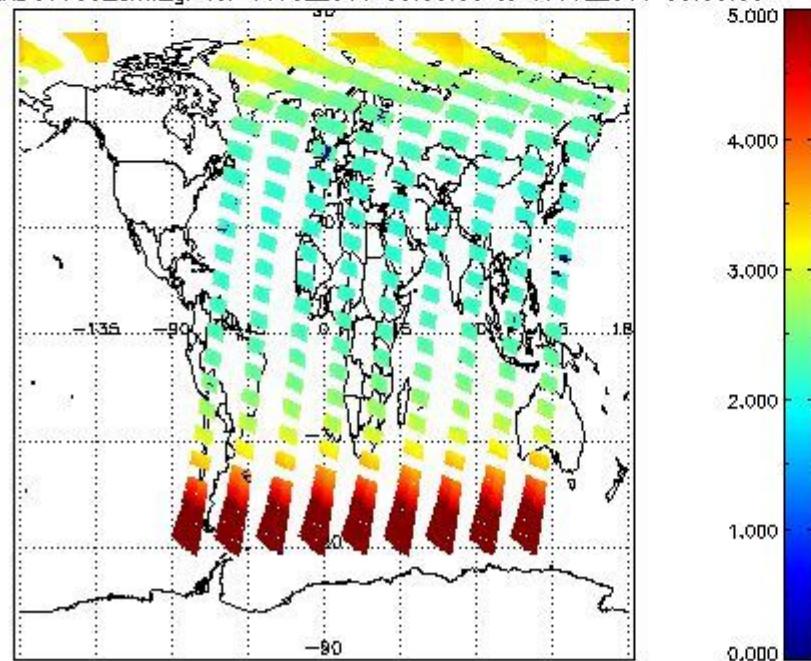
SCIOL2P_NADUV003_vcd for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



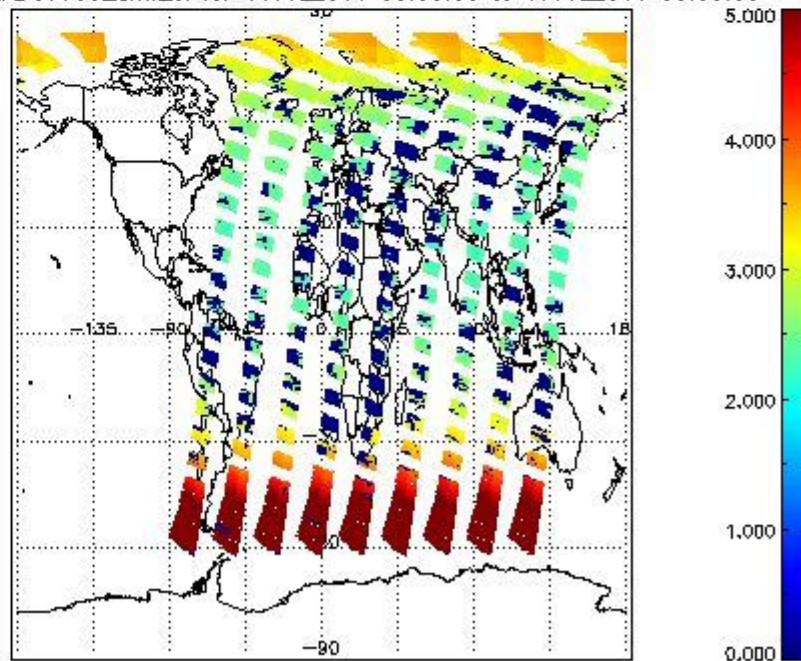
SCIOL2P_NADUV003_vcd_err for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



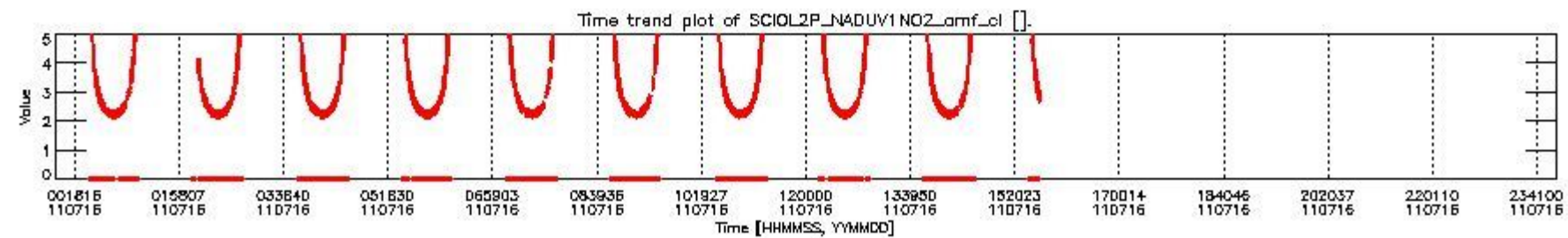
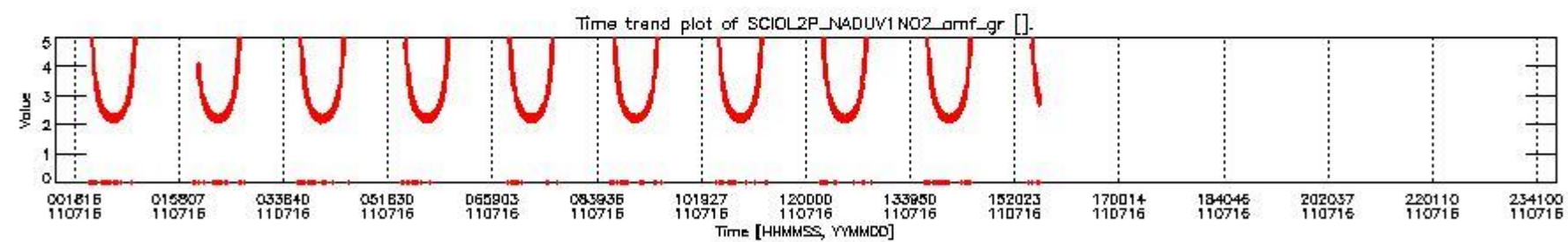
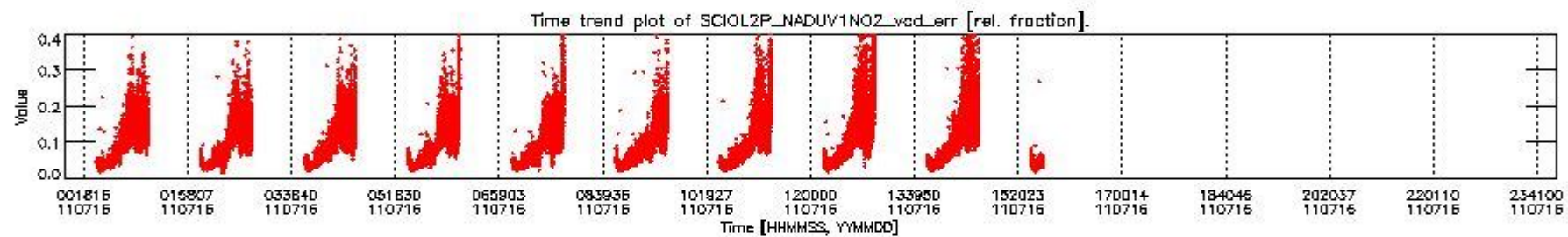
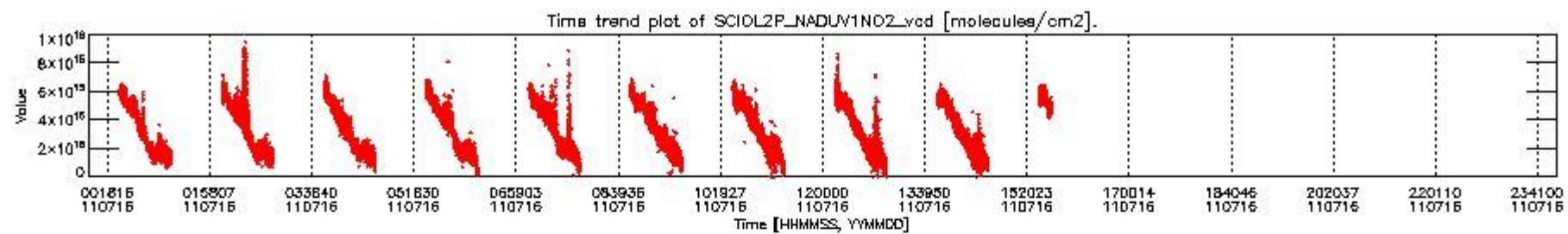
SCIOL2P_NADUV003_amf_gr for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



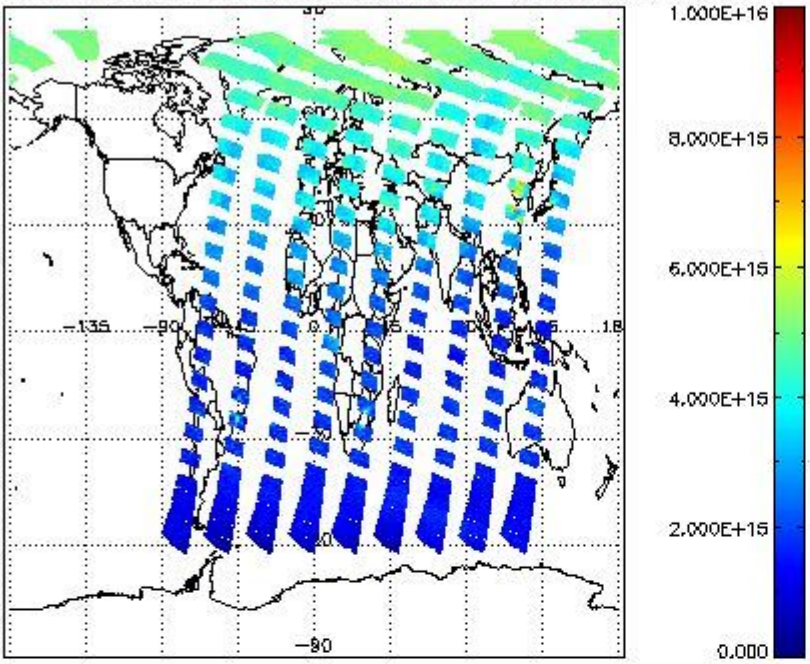
SCIOL2P_NADUV003_amf_cl for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



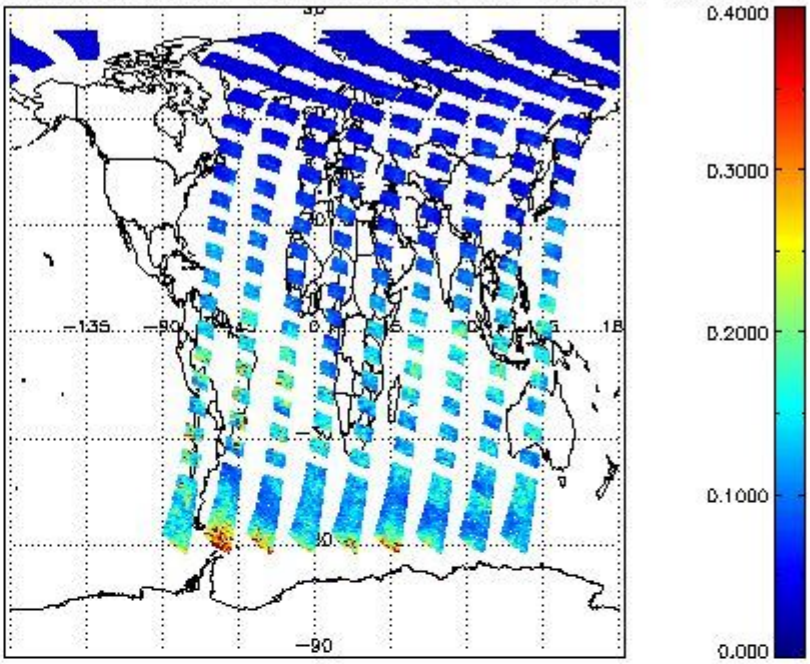
2.2.2.2 NO2 (UV1)



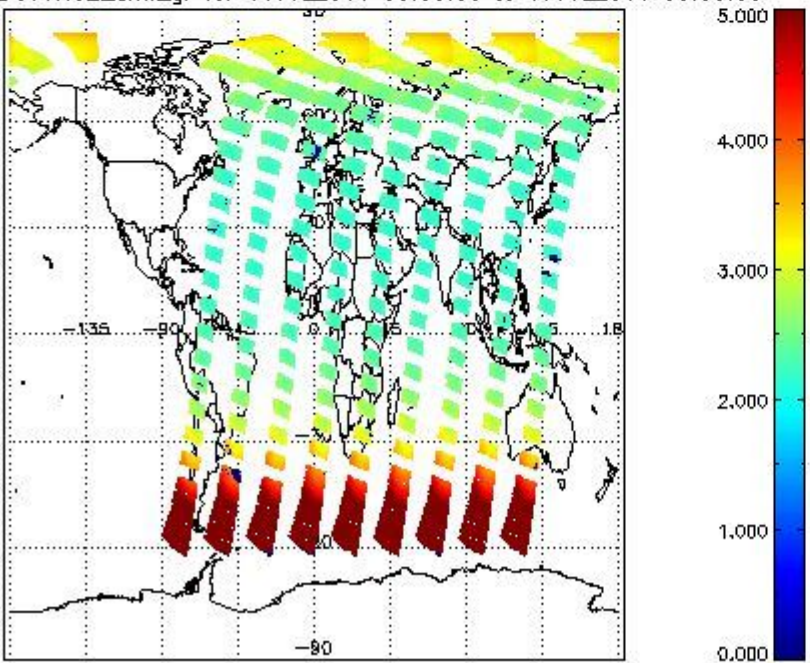
SCIOL2P_NADUV1NO2_vcd for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



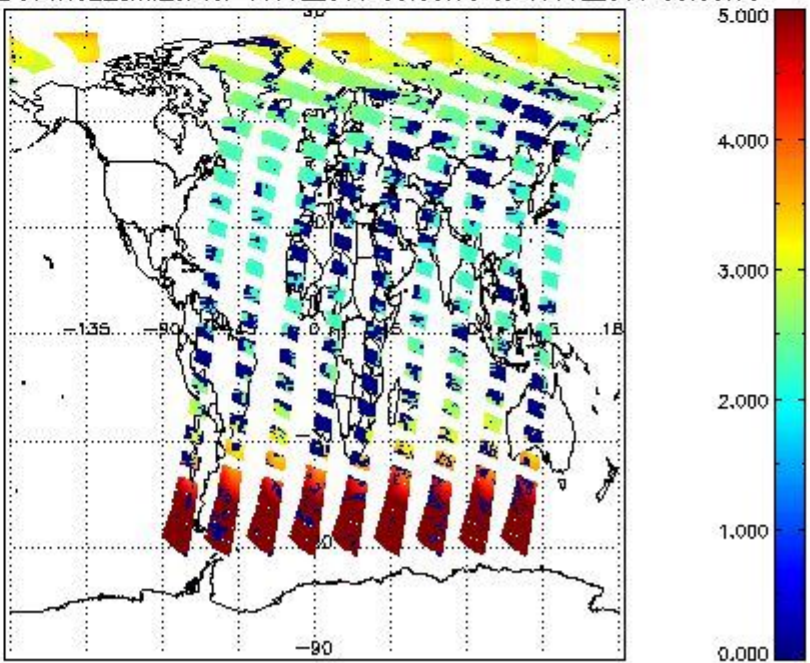
SCIOL2P_NADUV1NO2_vcd_err for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



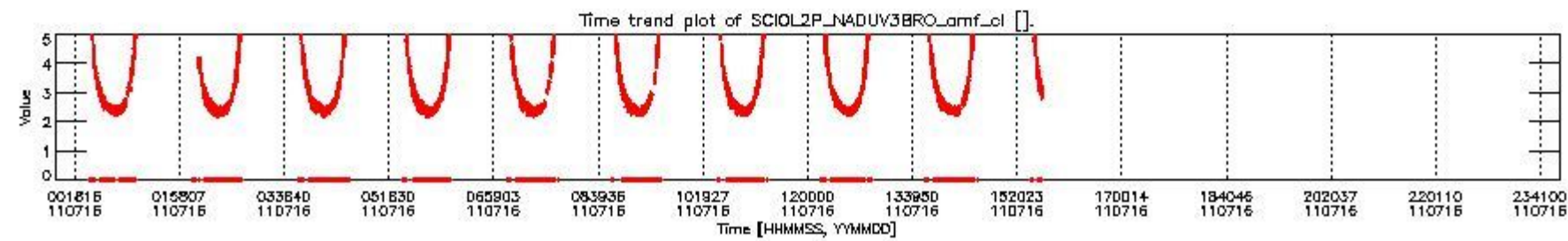
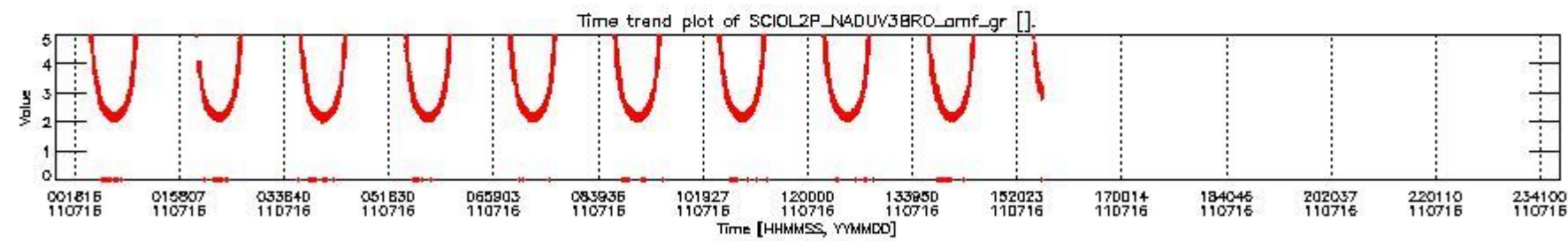
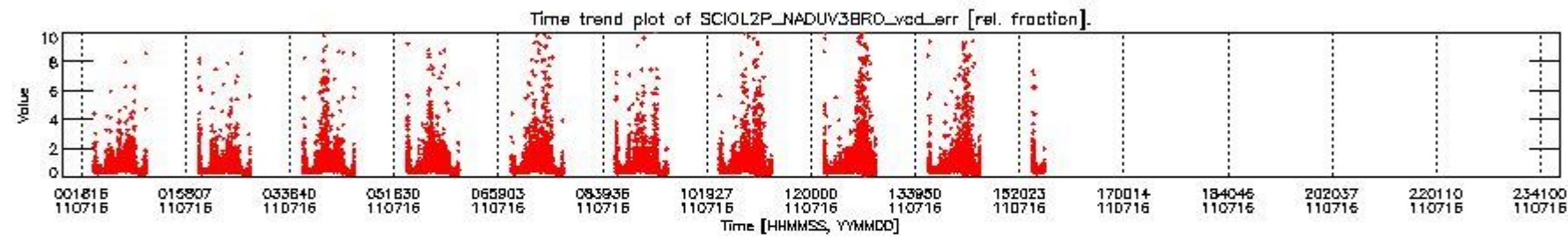
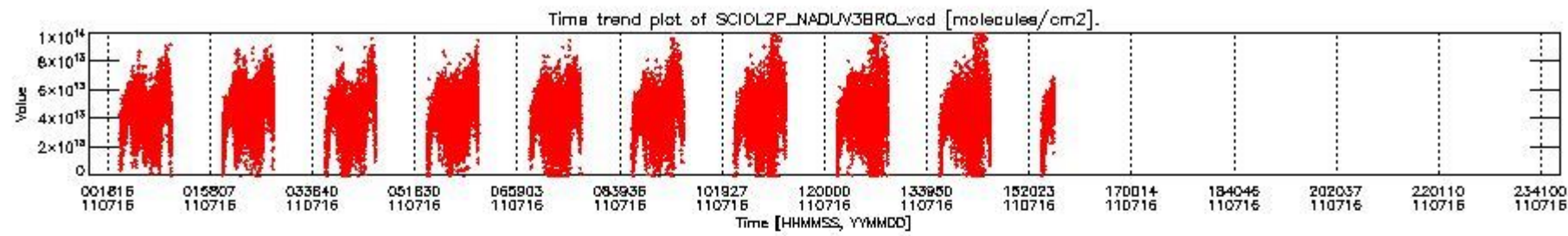
SCIOL2P_NADUV1NO2_amf_gr for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



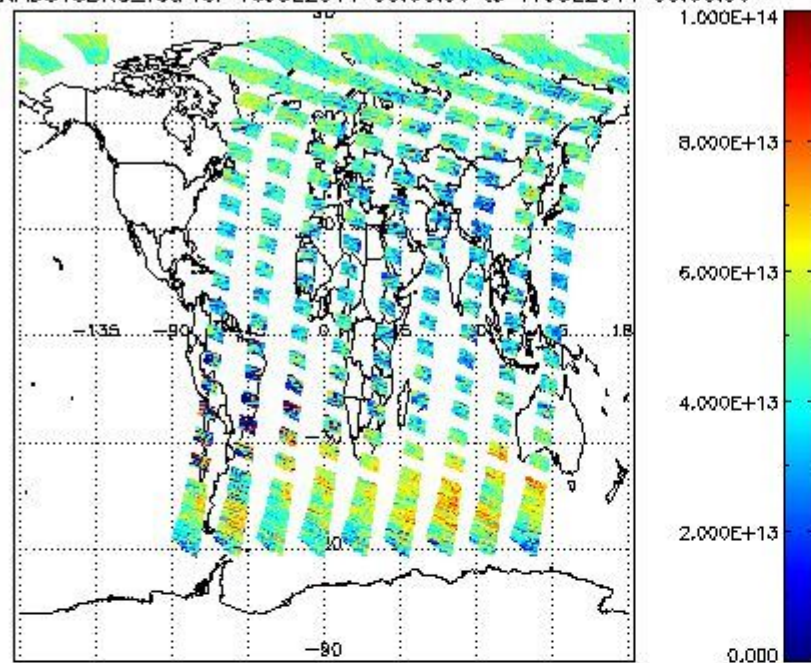
SCIOL2P_NADUV1NO2_amf_cl for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



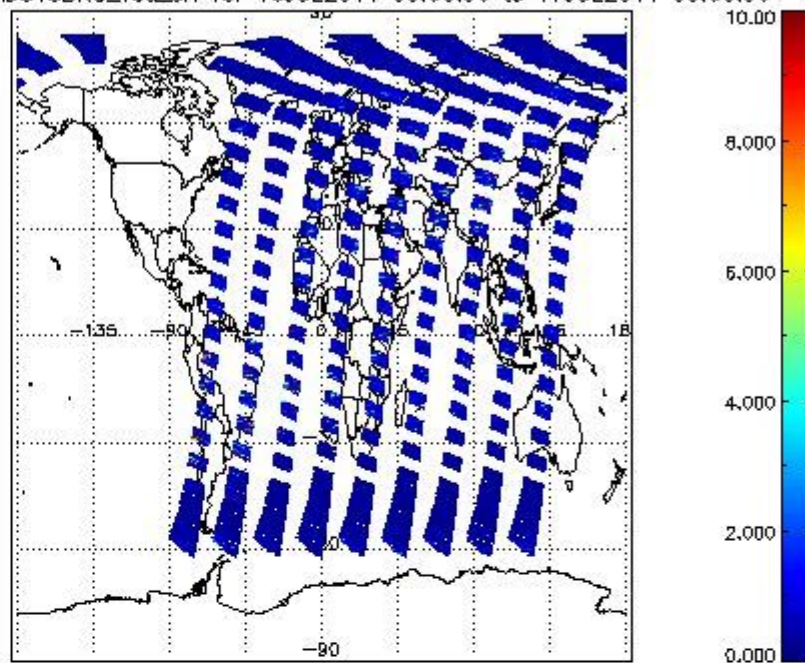
2.2.2.3 BrO (UV3)



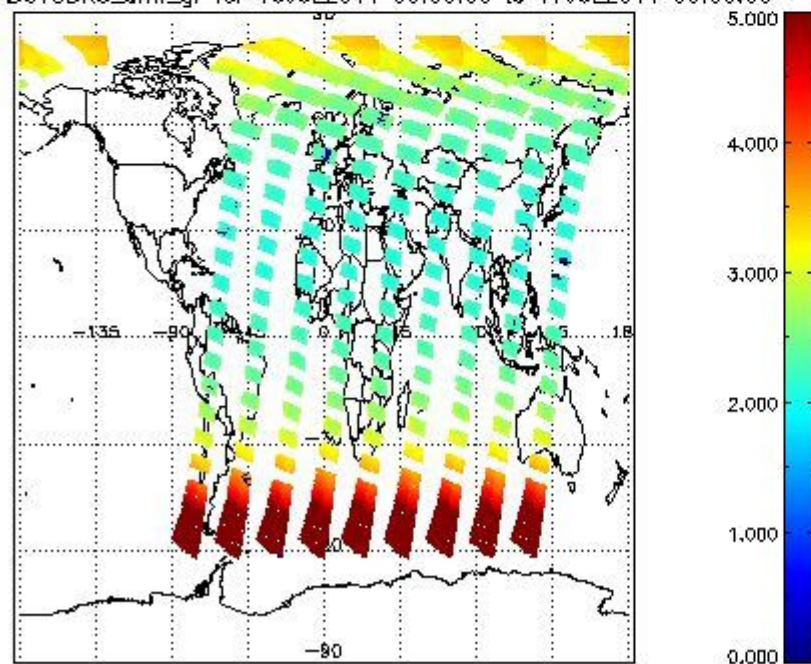
SCIOL2P_NADUV3BRO_vcd for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



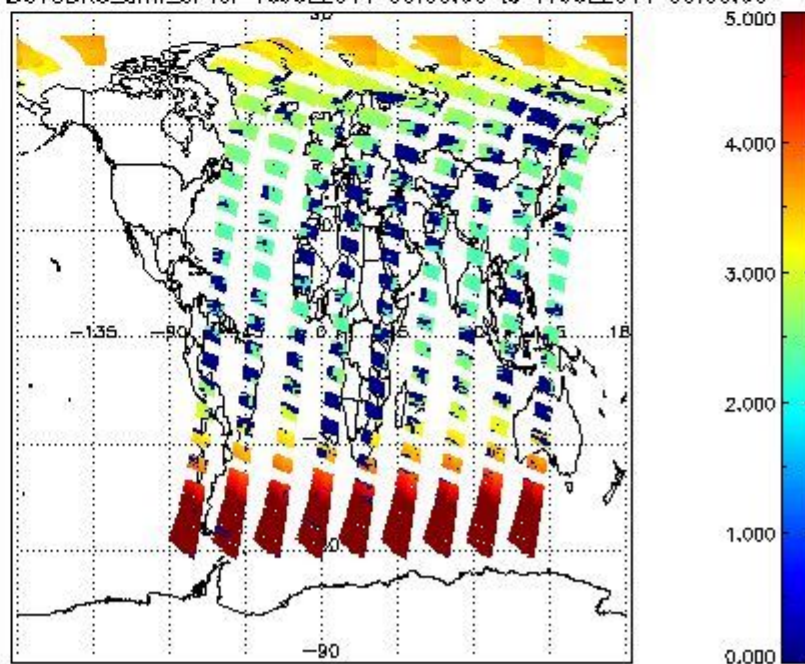
SCIOL2P_NADUV3BRO_vcd_err for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



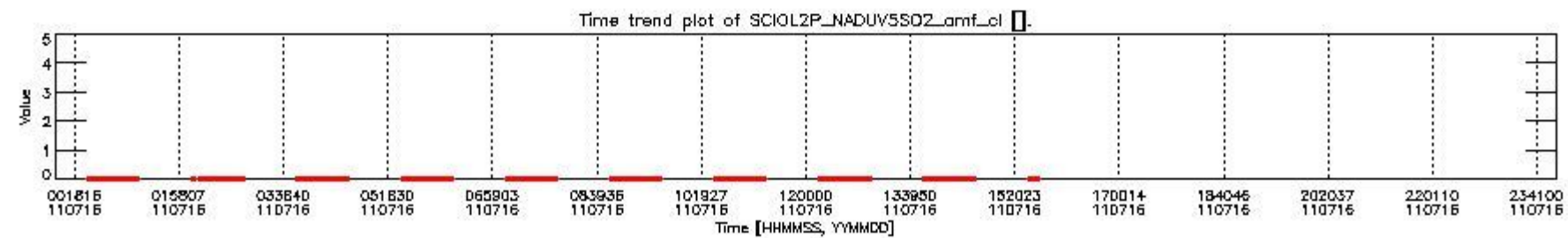
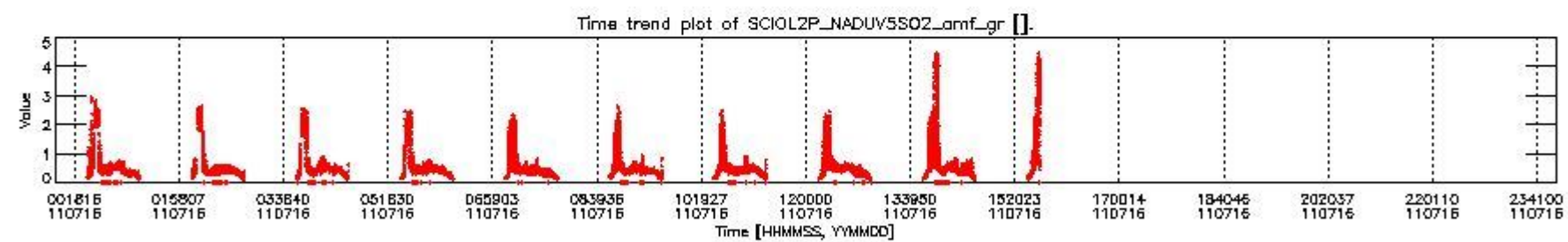
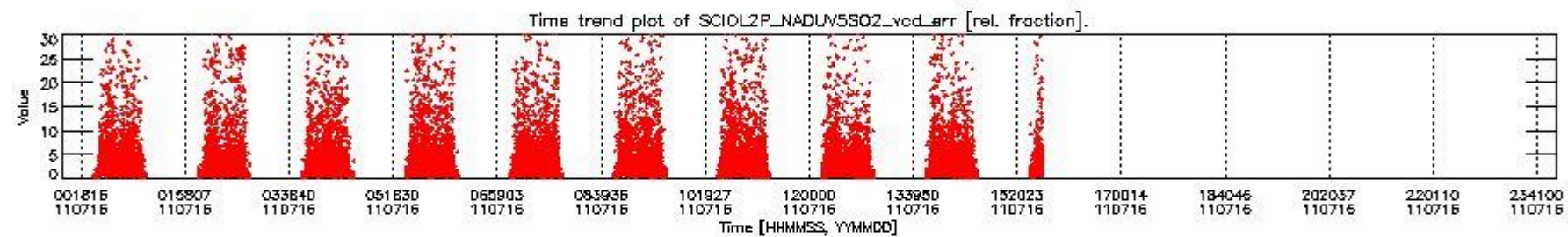
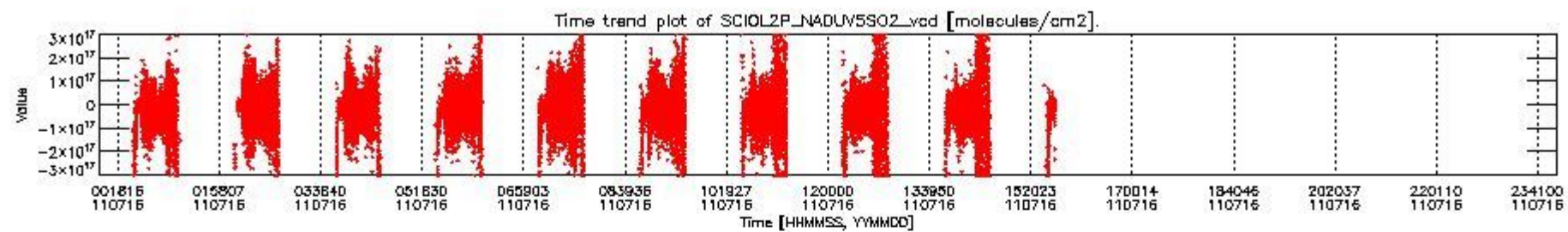
SCIOL2P_NADUV3BRO_amf_gr for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



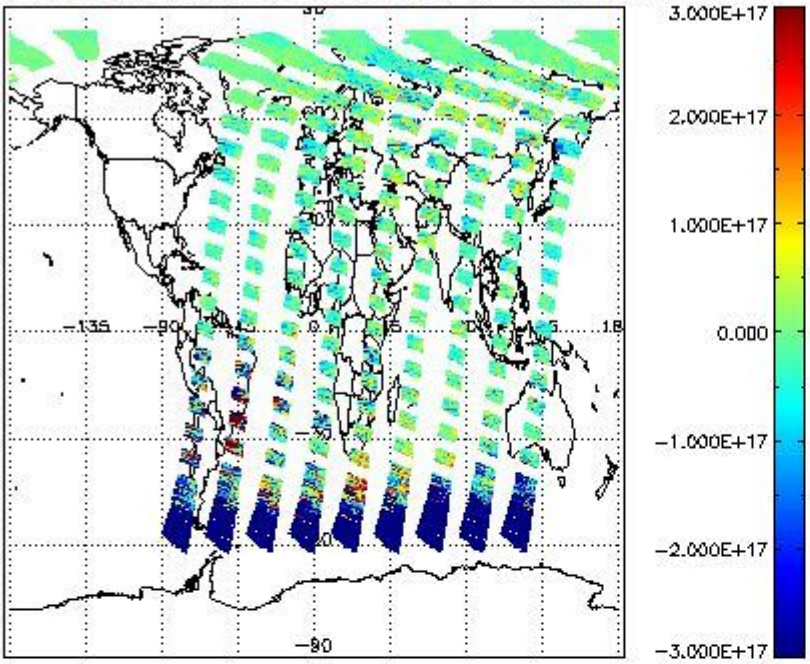
SCIOL2P_NADUV3BRO_amf_cl for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



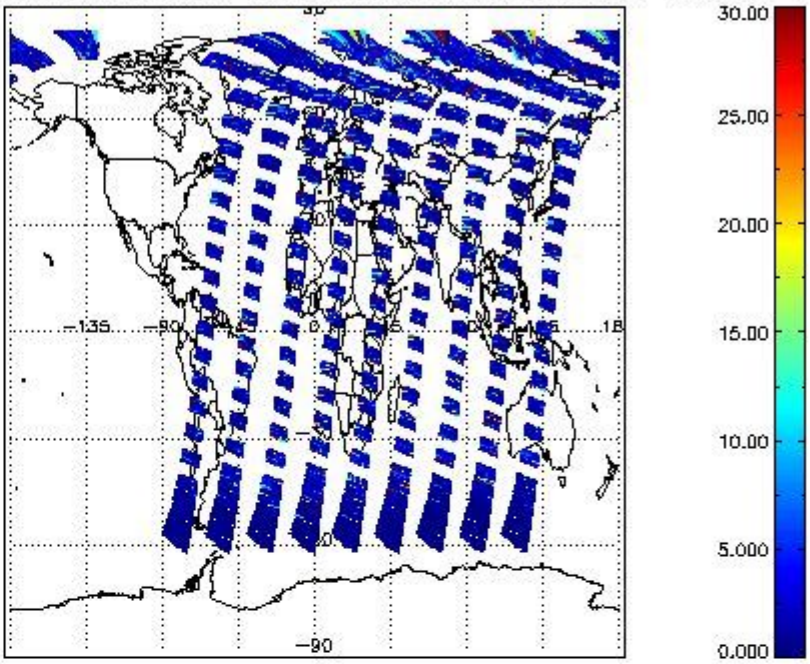
2.2.2.4 SO2 (UV5)



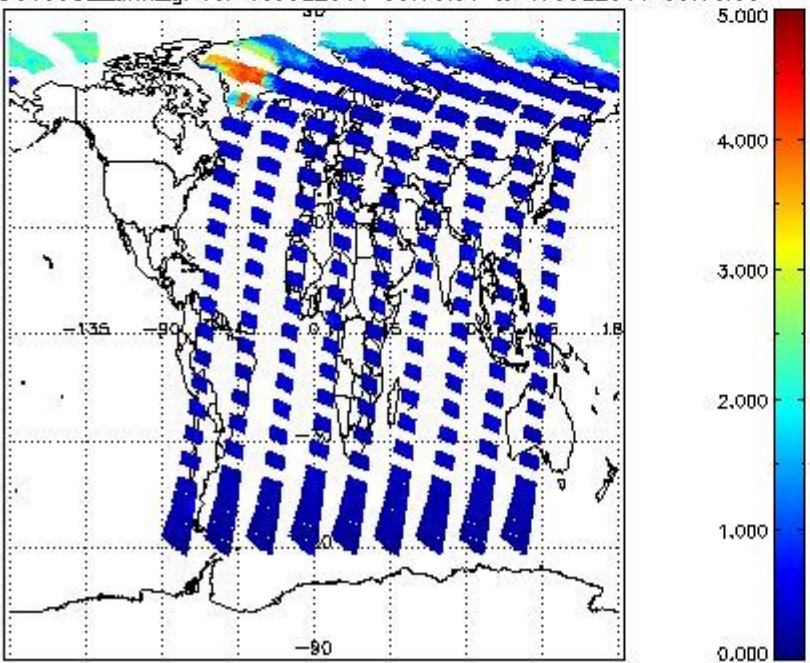
SCIOL2P_NADUV5S02_vcd for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



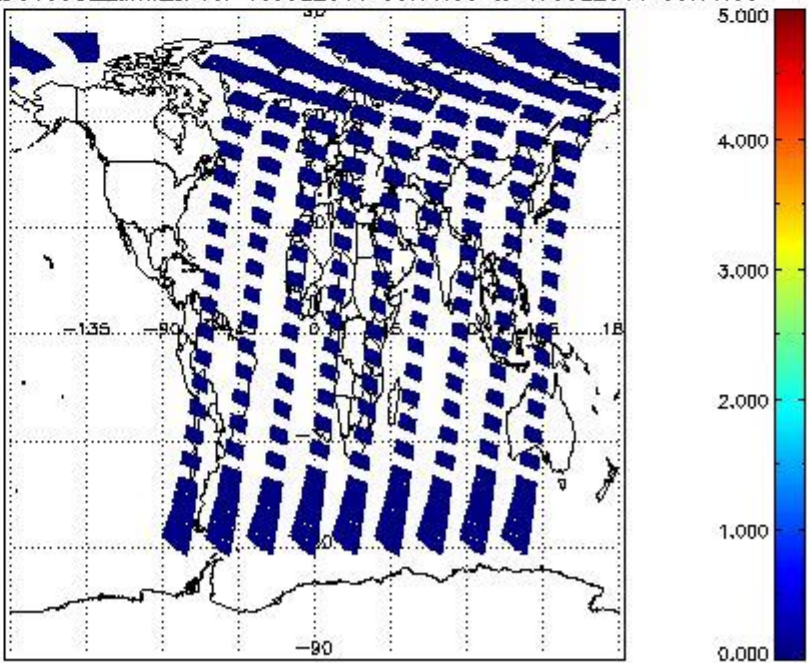
SCIOL2P_NADUV5S02_vcd_err for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



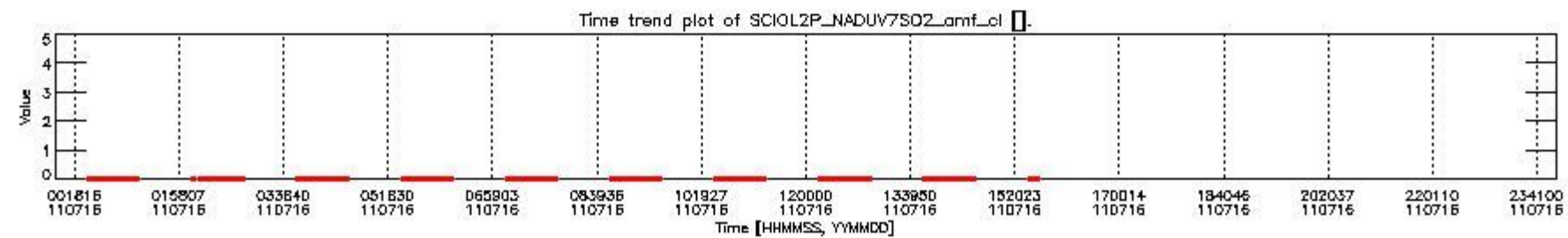
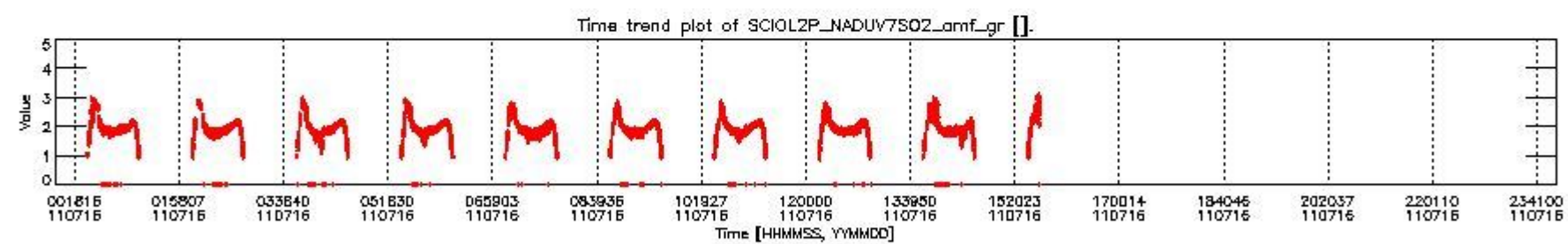
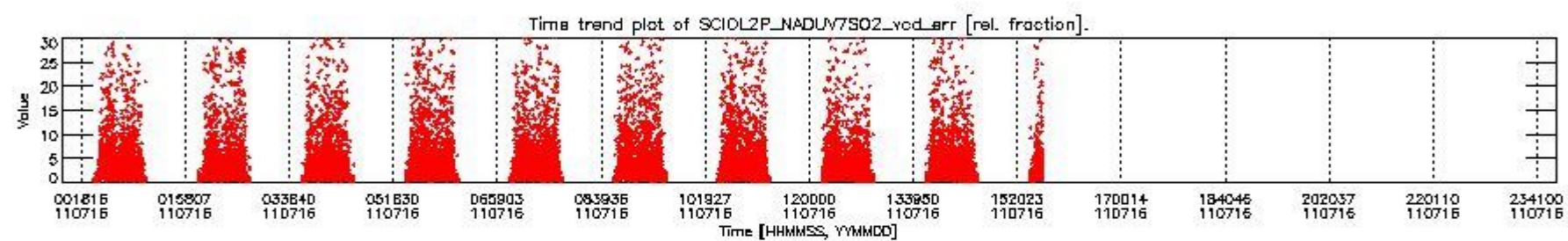
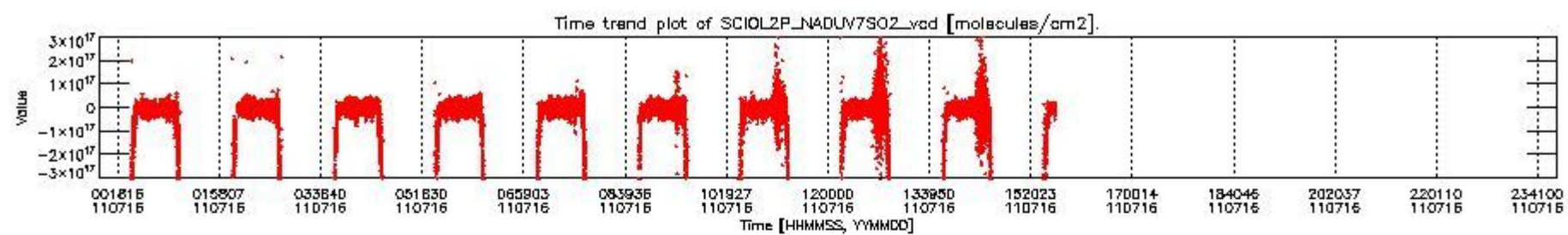
SCIOL2P_NADUV5S02_amf_gr for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



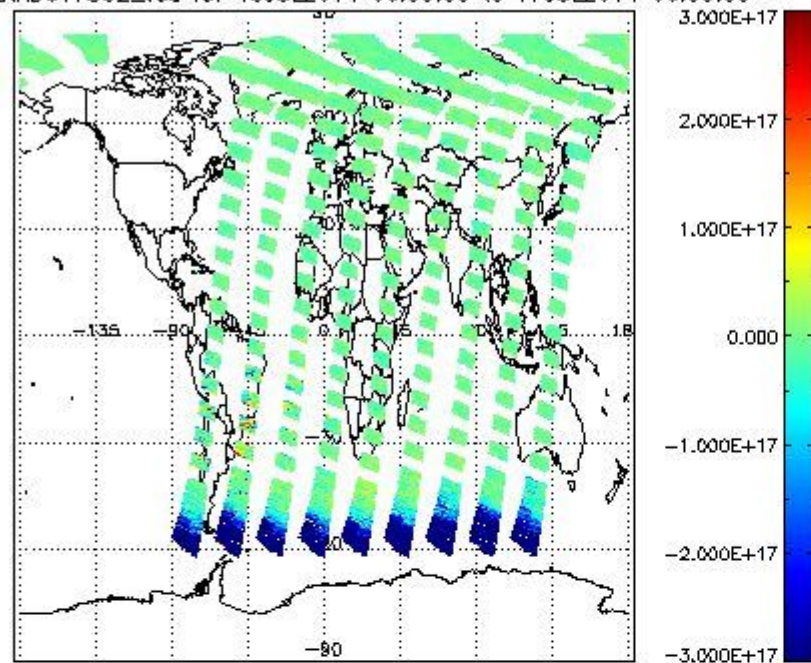
SCIOL2P_NADUV5S02_amf_cl for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



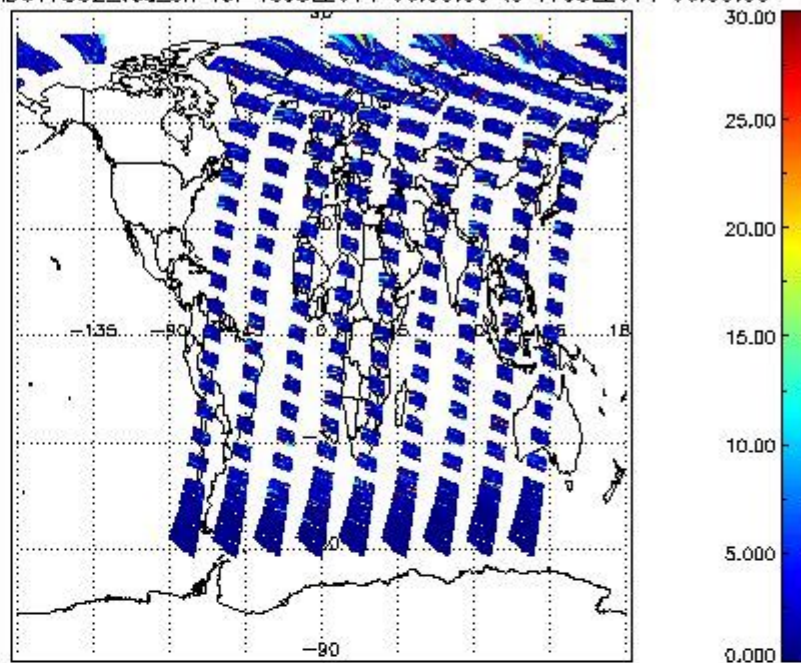
2.2.2.5 SO2 (UV7)



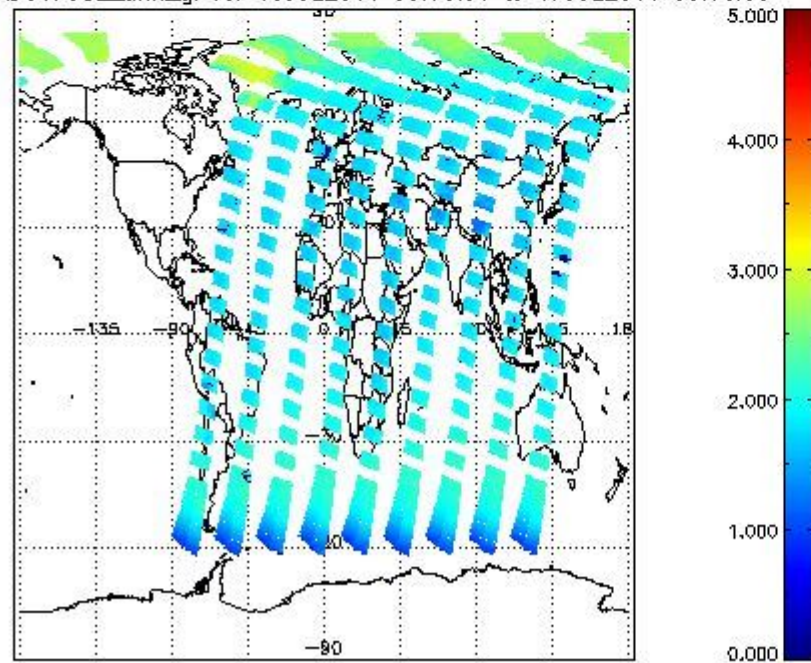
SCIOL2P_NADUV7S02_vcd for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



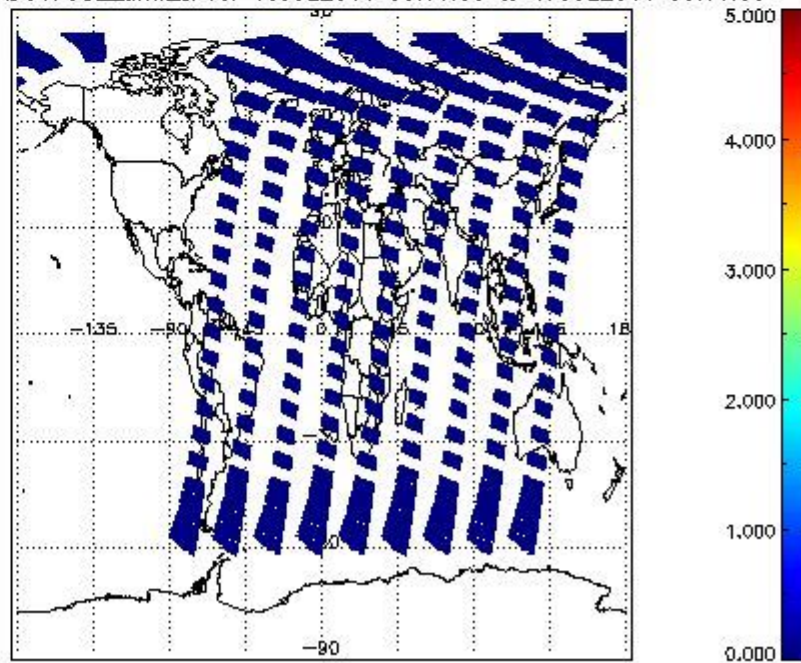
SCIOL2P_NADUV7S02_vcd_err for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



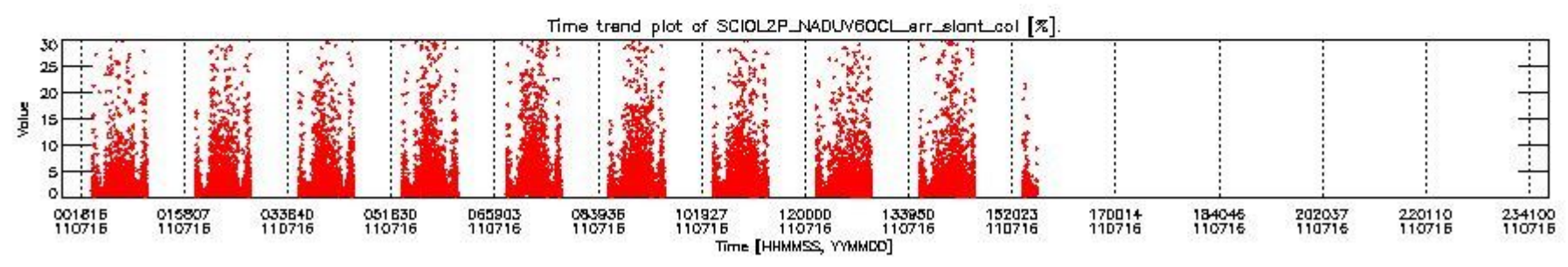
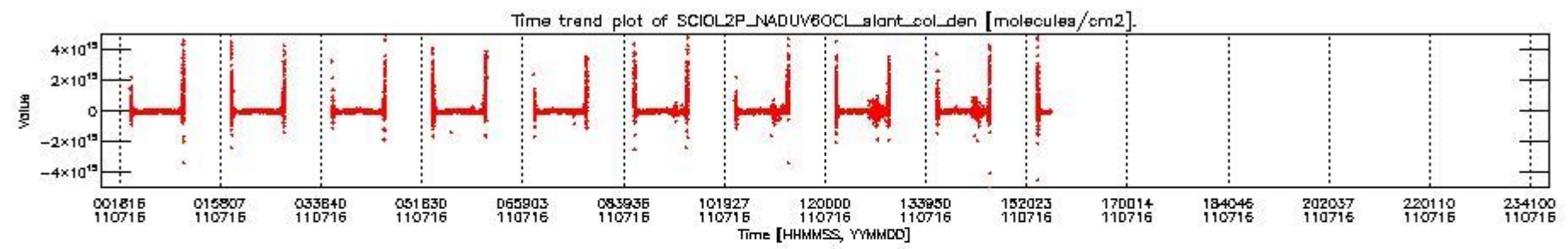
SCIOL2P_NADUV7S02_amf_gr for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



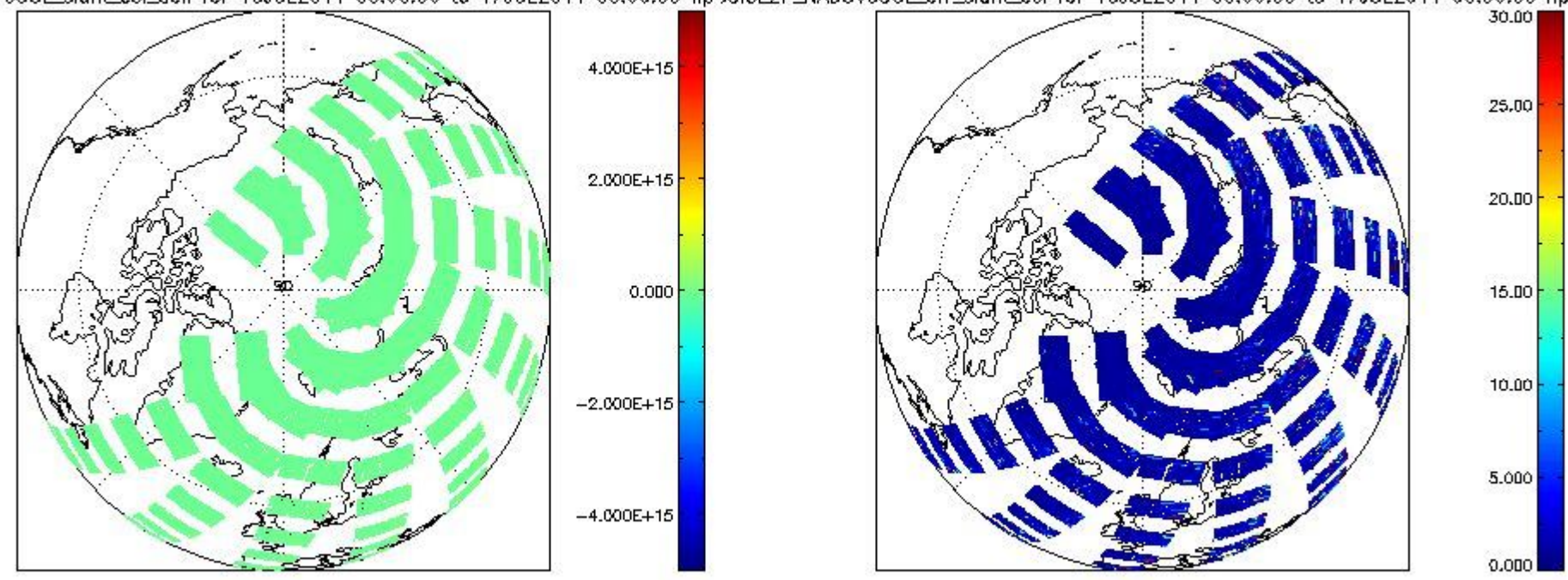
SCIOL2P_NADUV7S02_amf_cl for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



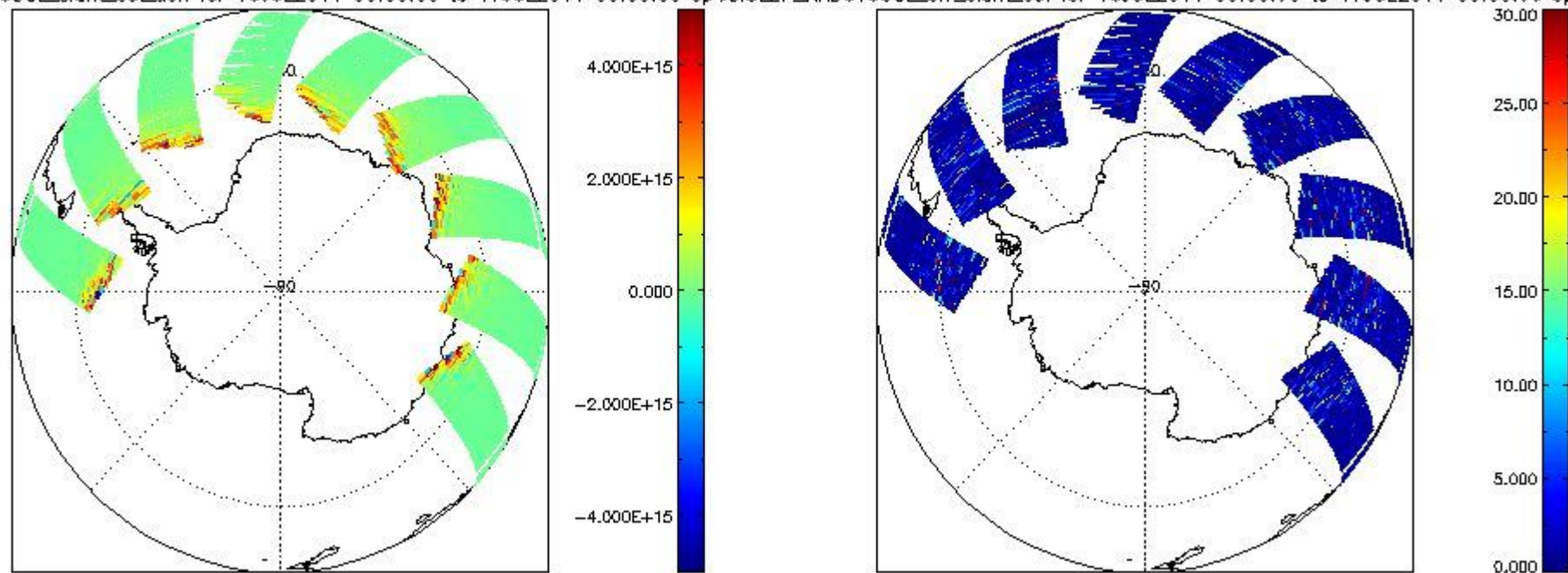
2.2.2.6 OCIO (UV6)



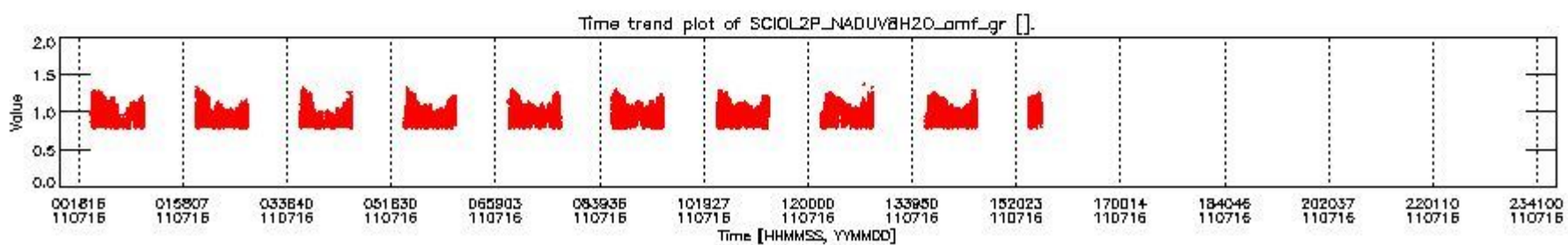
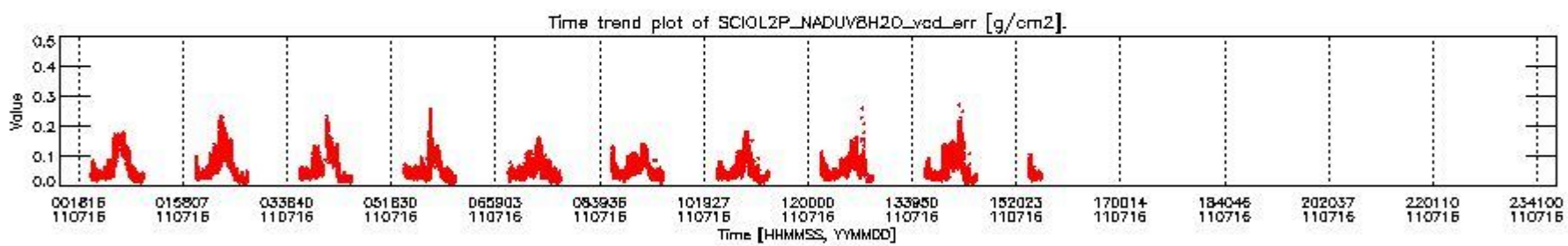
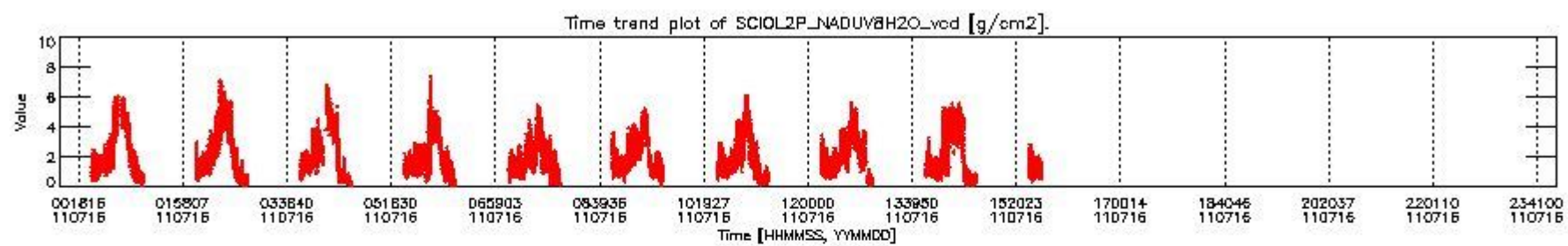
SCIO2P_NADUV6OCLslant_col_den for 16JUL2011 00:00:00 to 17JUL2011 00:00:00 np SCIO2P_NADUV6OCLarr_slant_col for 16JUL2011 00:00:00 to 17JUL2011 00:00:00 np



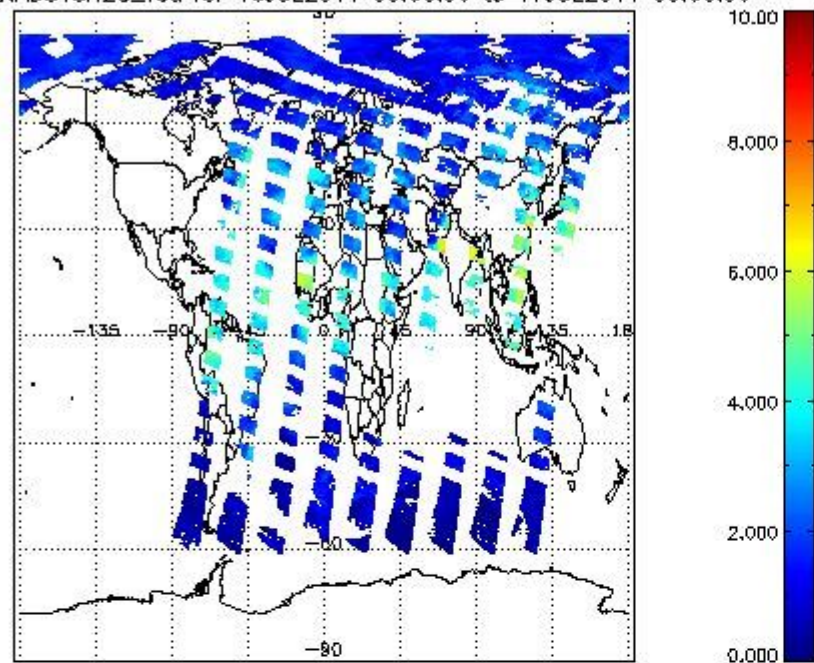
SCIOL2P_NADUV6OCL_slant_col_den for 16JUL2011 00:00:00 to 17JUL2011 00:00:00 sp SCIOL2P_NADUV6OCL_err_slant_col for 16JUL2011 00:00:00 to 17JUL2011 00:00:00 sp



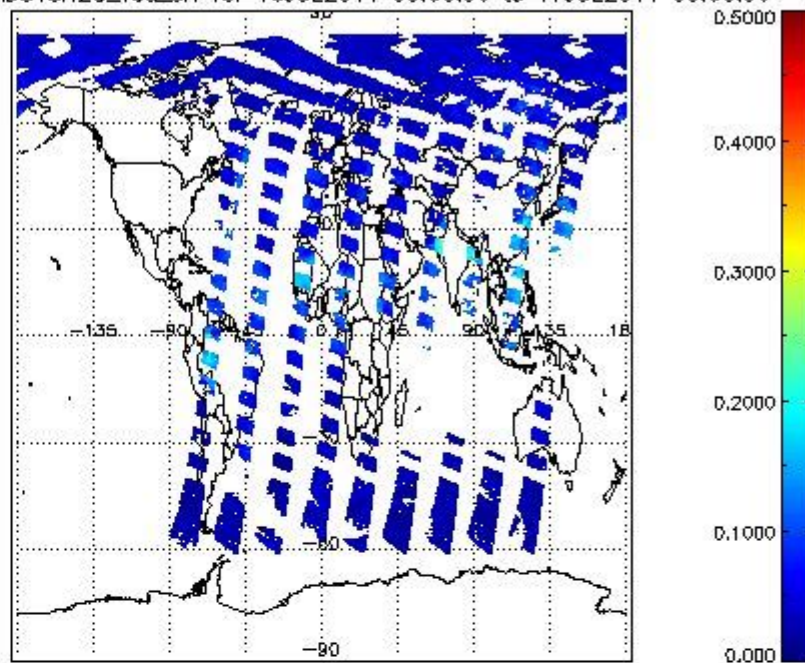
2.2.2.7 H₂O (UV8)



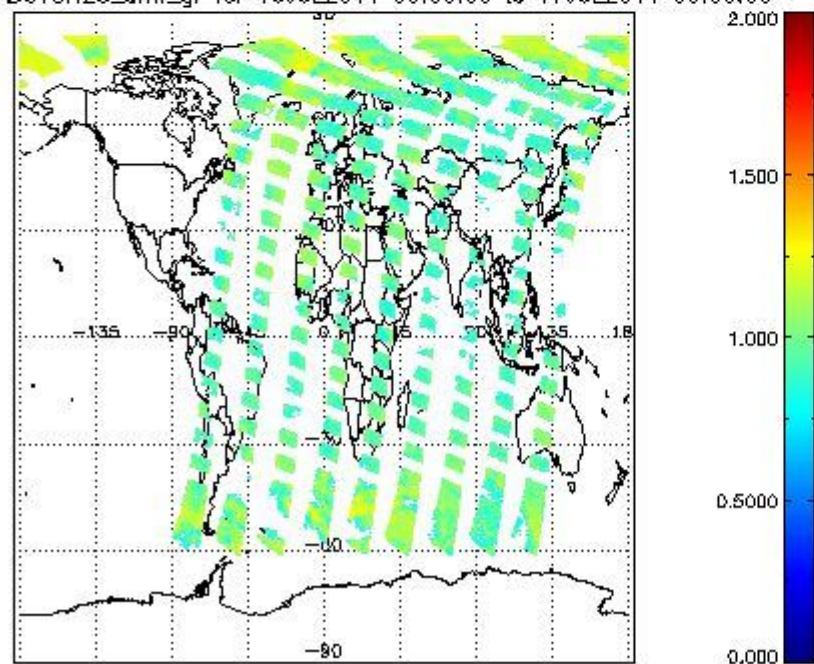
SCIOL2P_NADUV8H2O_vcd for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

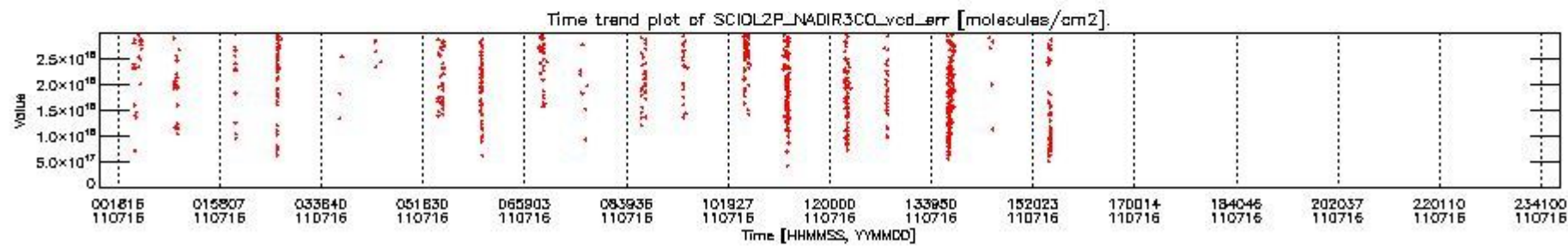
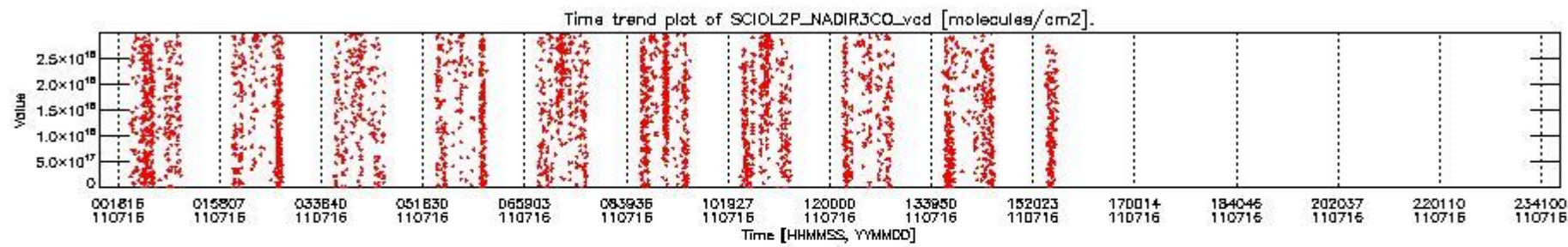


SCIOL2P_NADUV8H2O_vcd_err for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

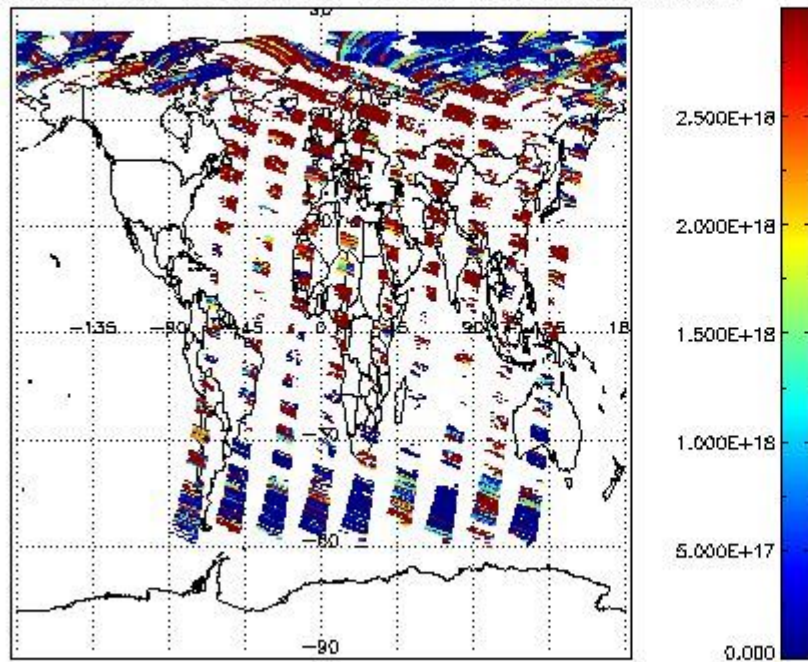


SCIOL2P_NADUV8H2O_amf_gr for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

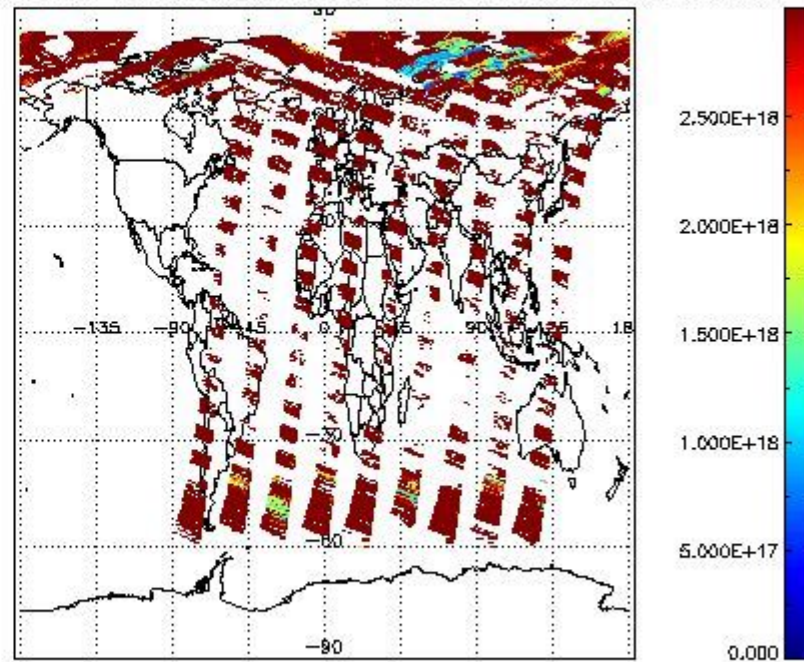




SCIDL2P_NADIR3CO_vcd for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



SCIDL2P_NADIR3CO_vcd_err for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



2.2.3 Limb

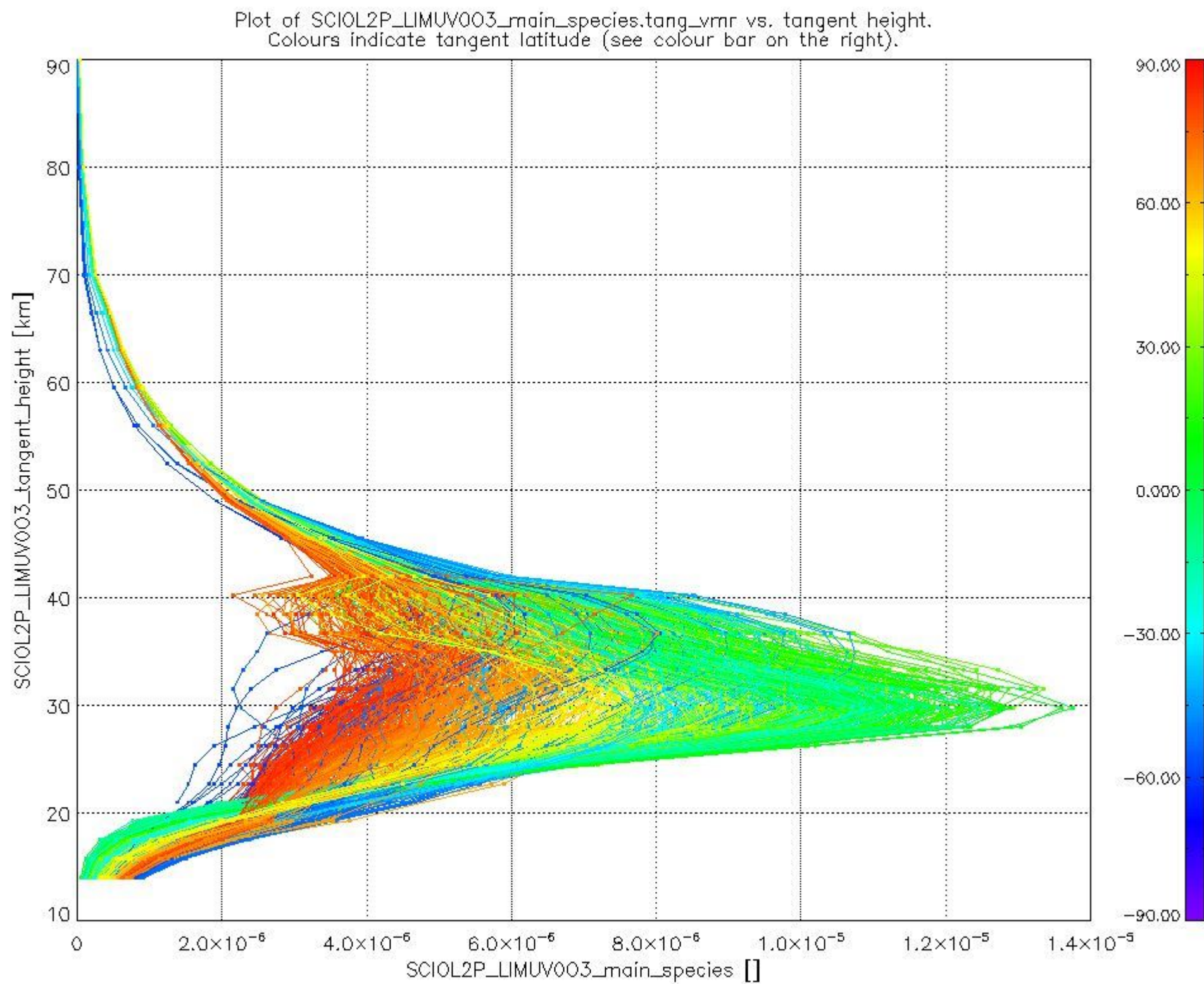
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

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

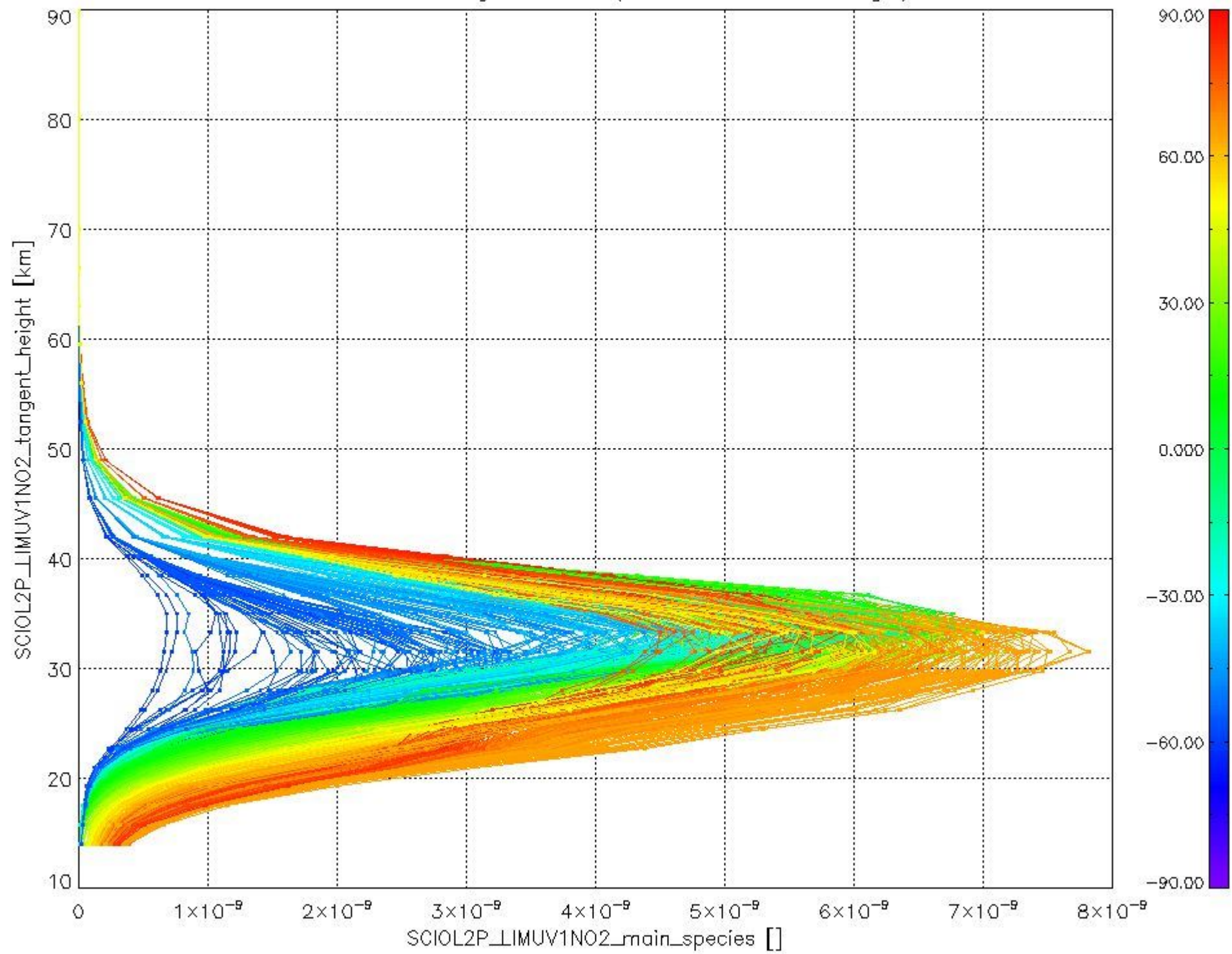
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



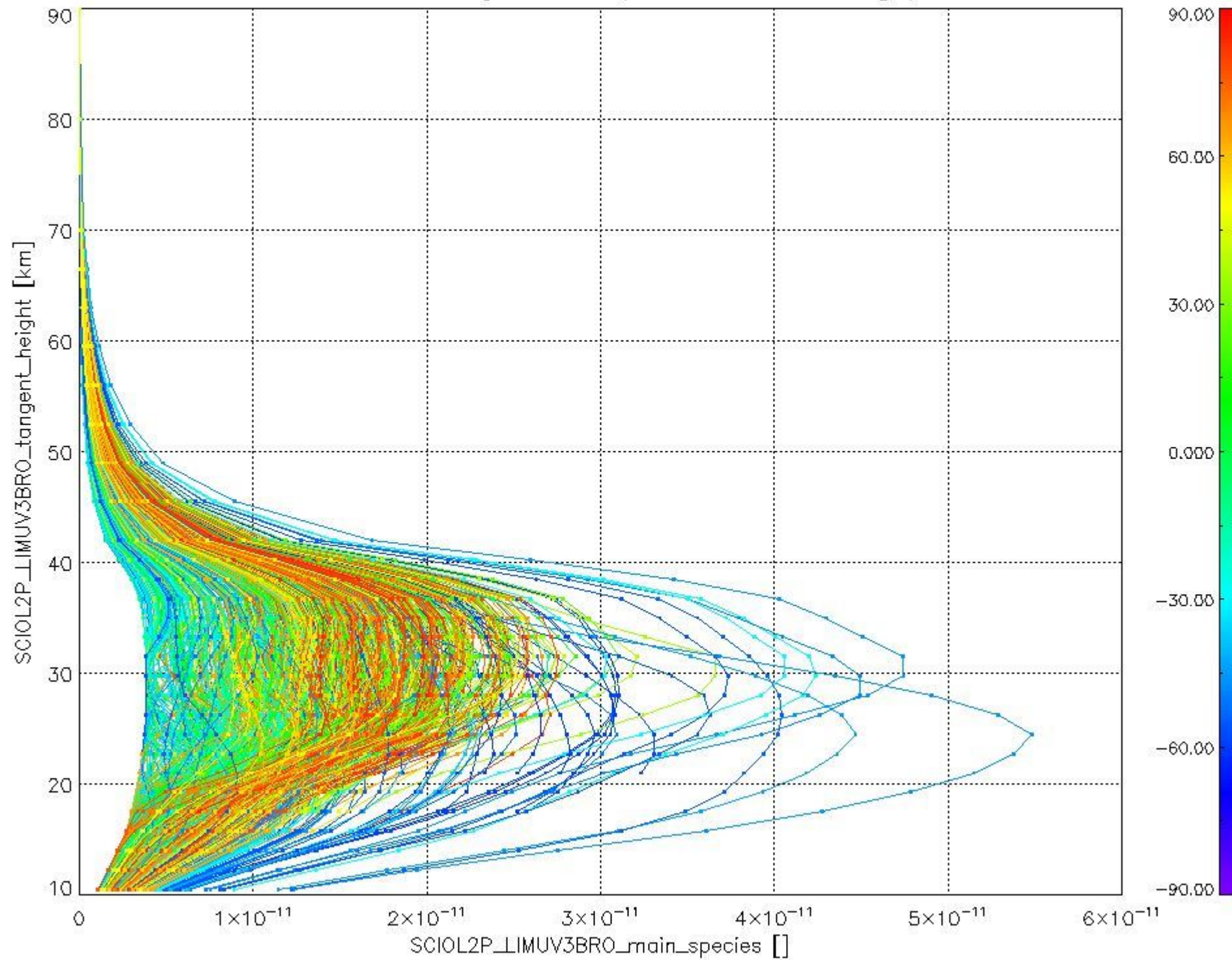
2.2.3.2 NO2 (UV1)

Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



2.2.3.3 BrO (UV3)

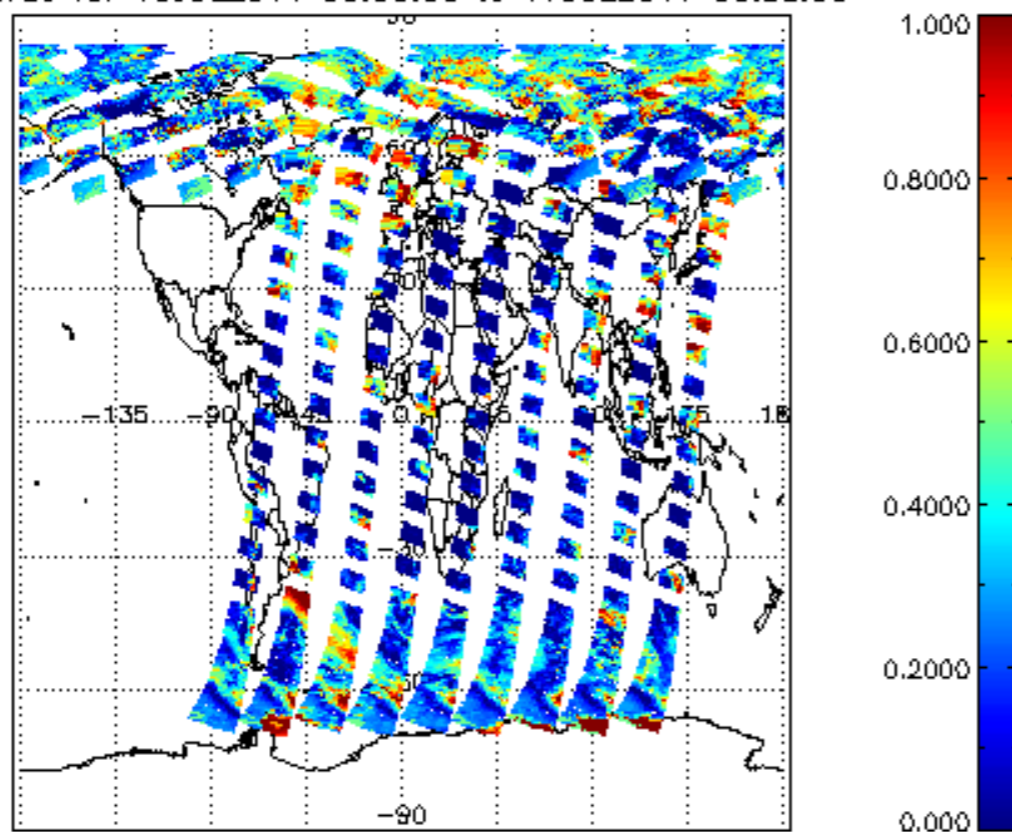
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



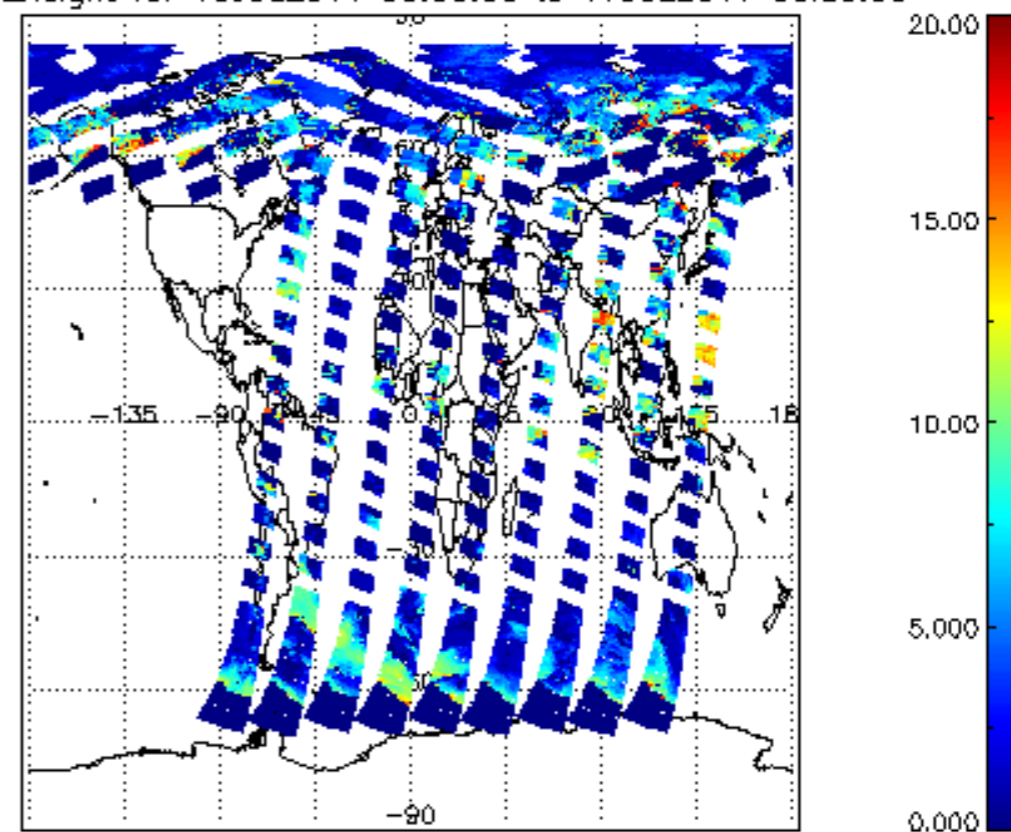
2.3 ADF monitoring

Number	ADF
	IN_ (INITIALISATION_FILE)
0	SCI_IN_AXNPDE20090615_120000_20090615_000000_20991231_235959
	ECF (ECMWF_FILE)
1	NOT USED
	MF1 (M_FACTOR_FILE)
2	SCI_MF1_AXVIEC20110719_110342_20110715_185745_20110717_185745

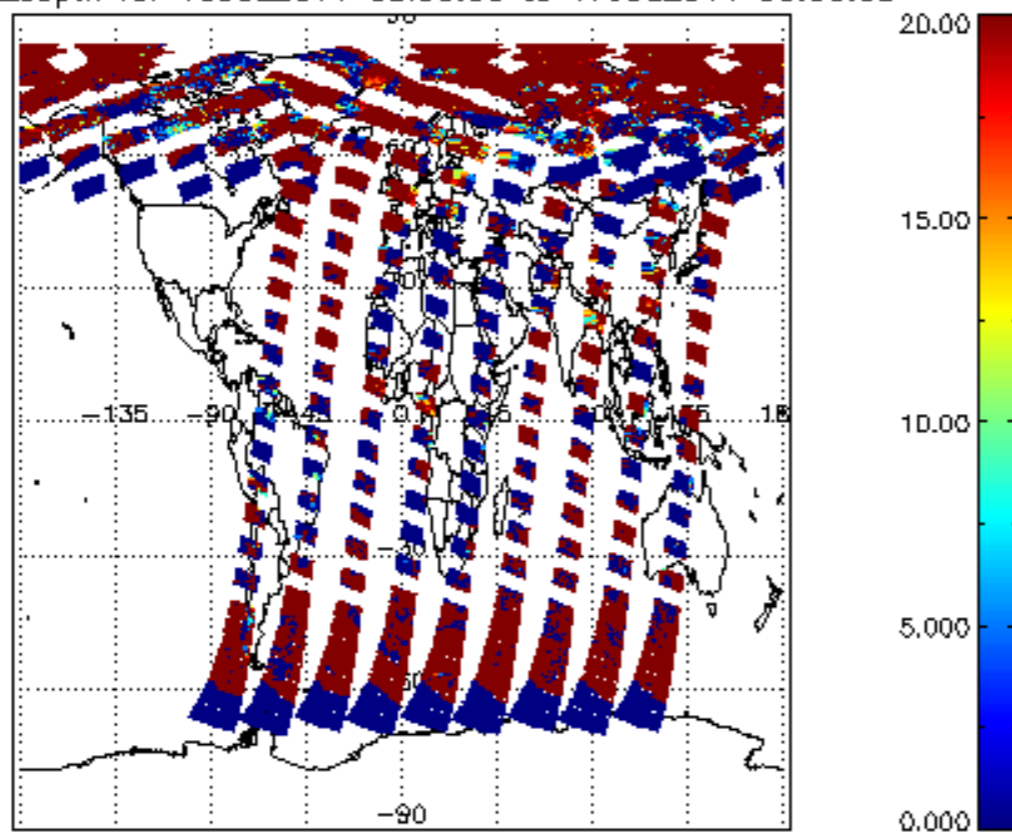
cl_frac for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



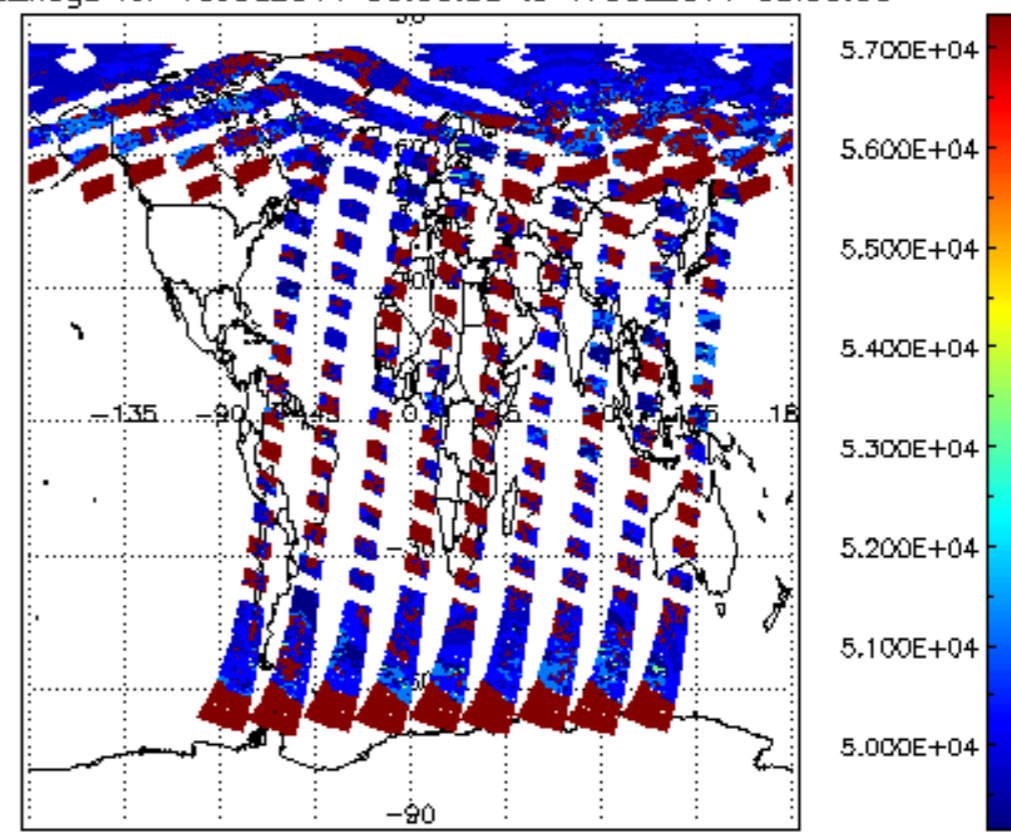
cl_top_height for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

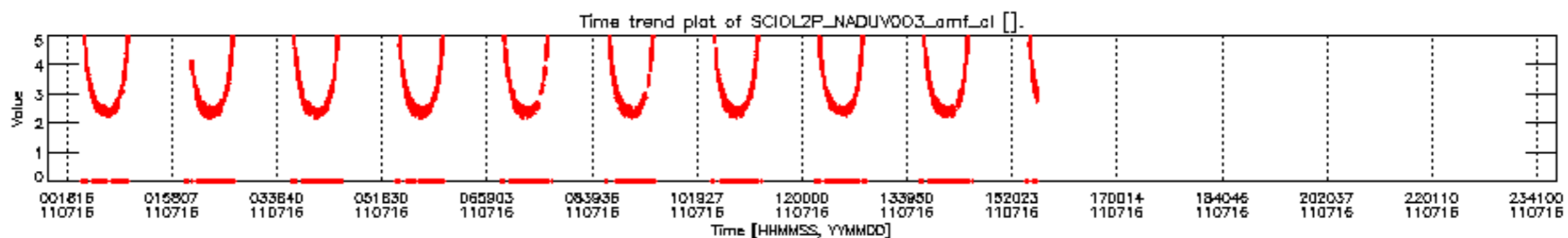
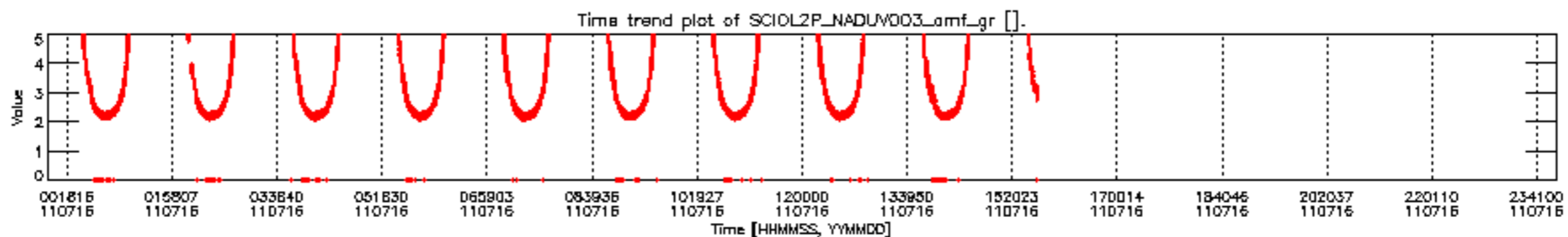
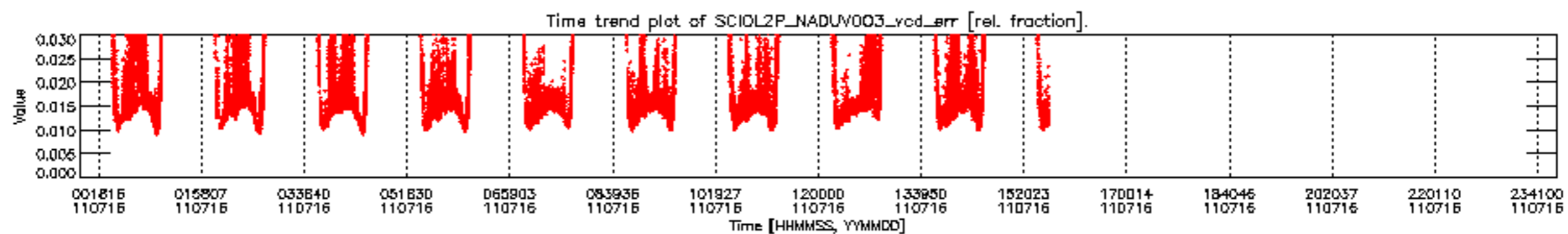
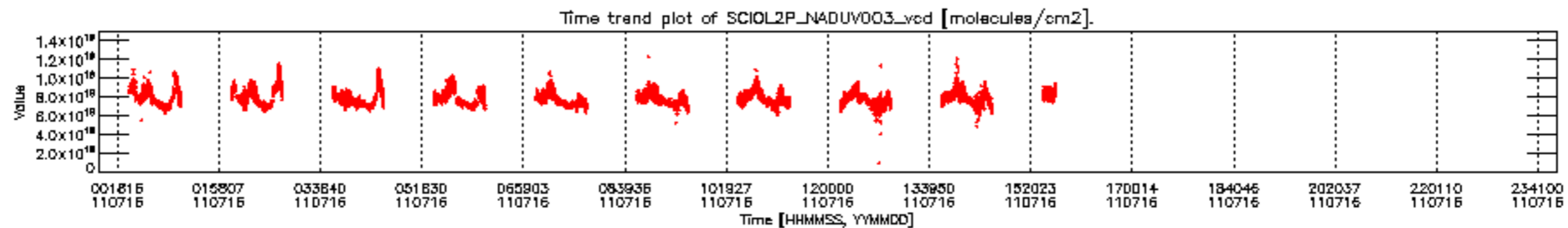


cl_opt_depth for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

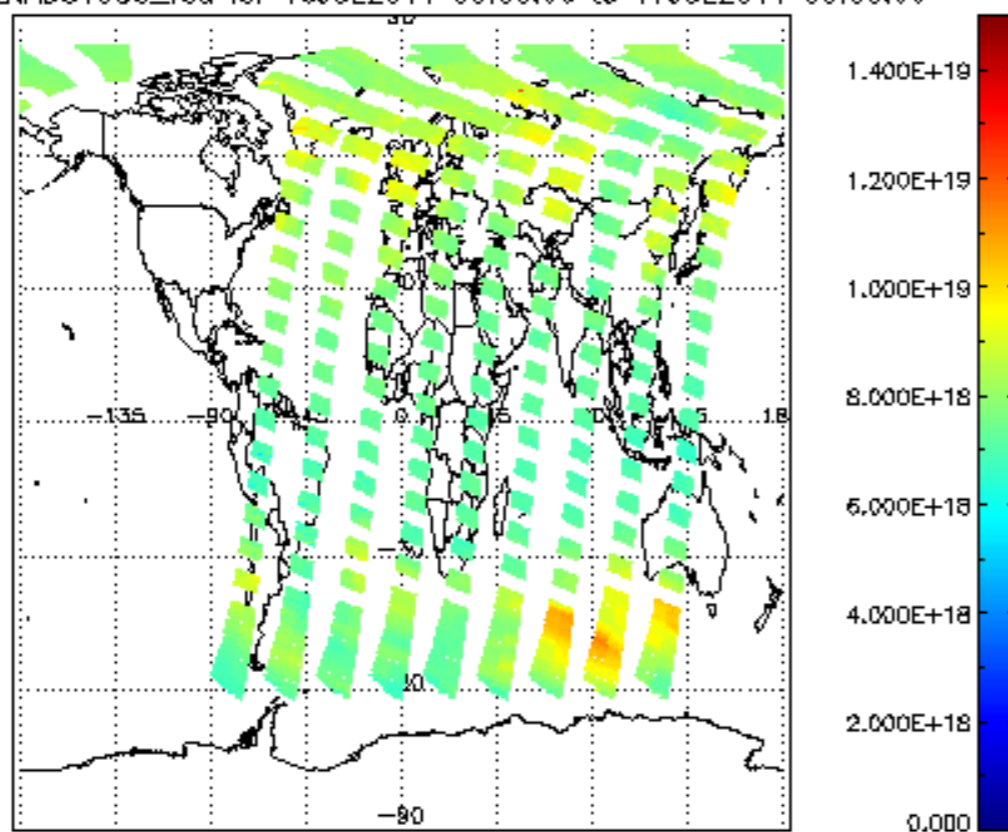


cloud_flags for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

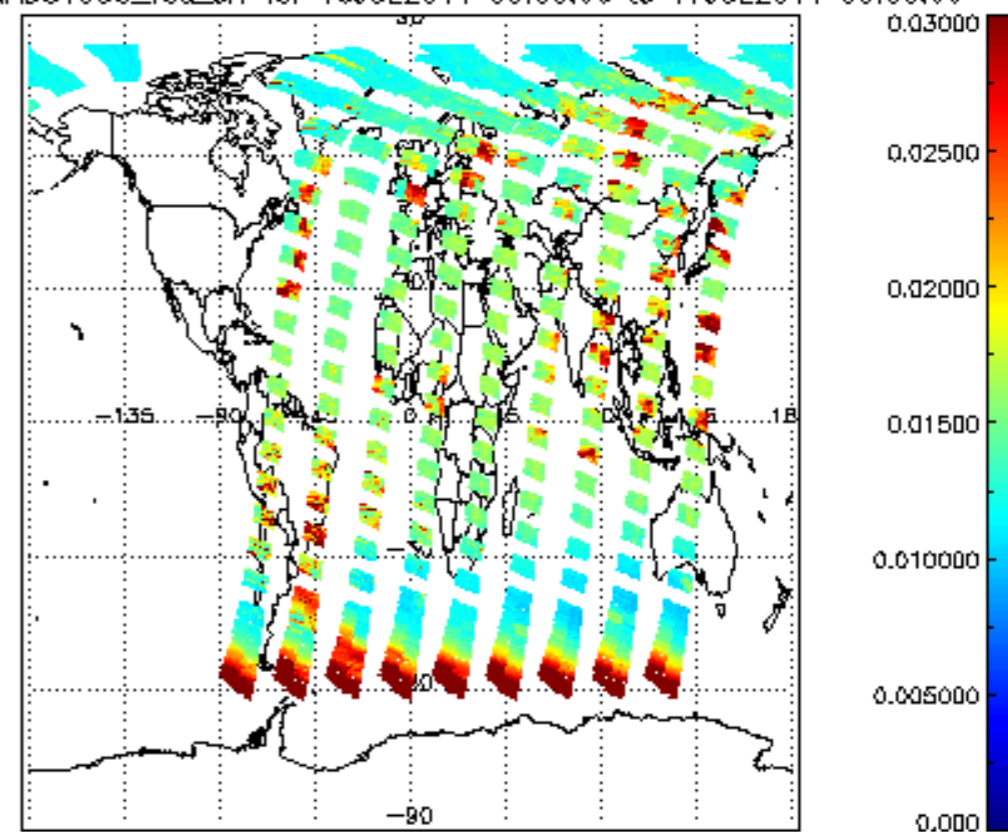




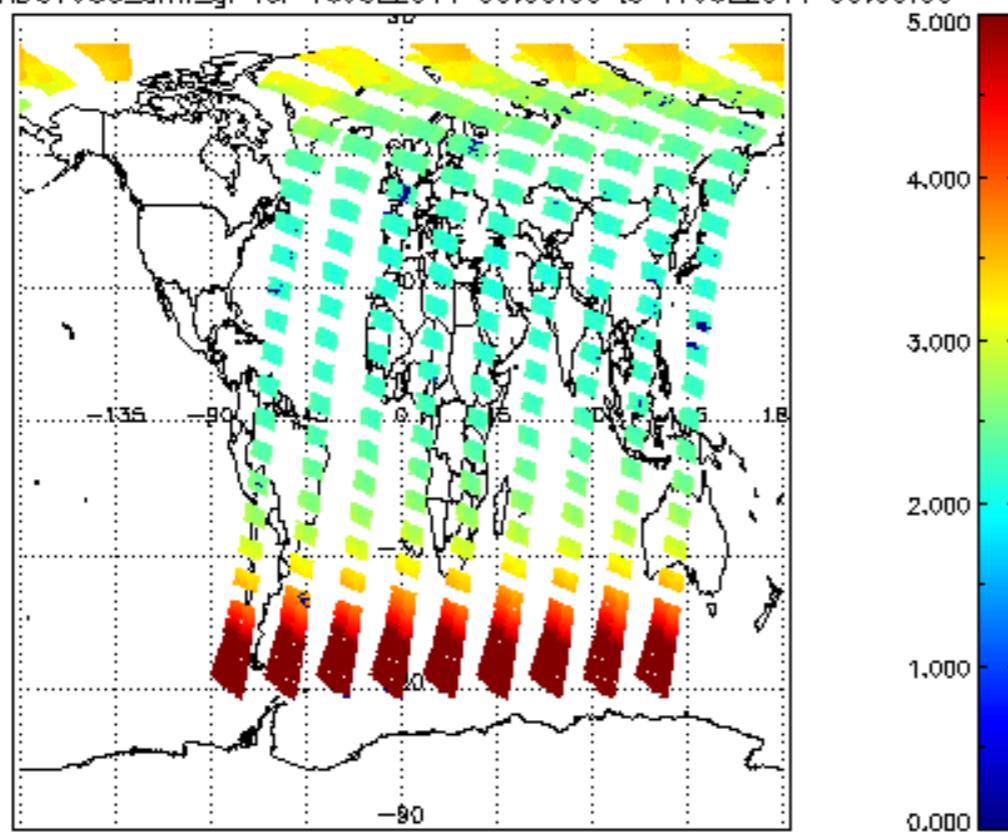
SCIOL2P_NADUV003_vcd for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



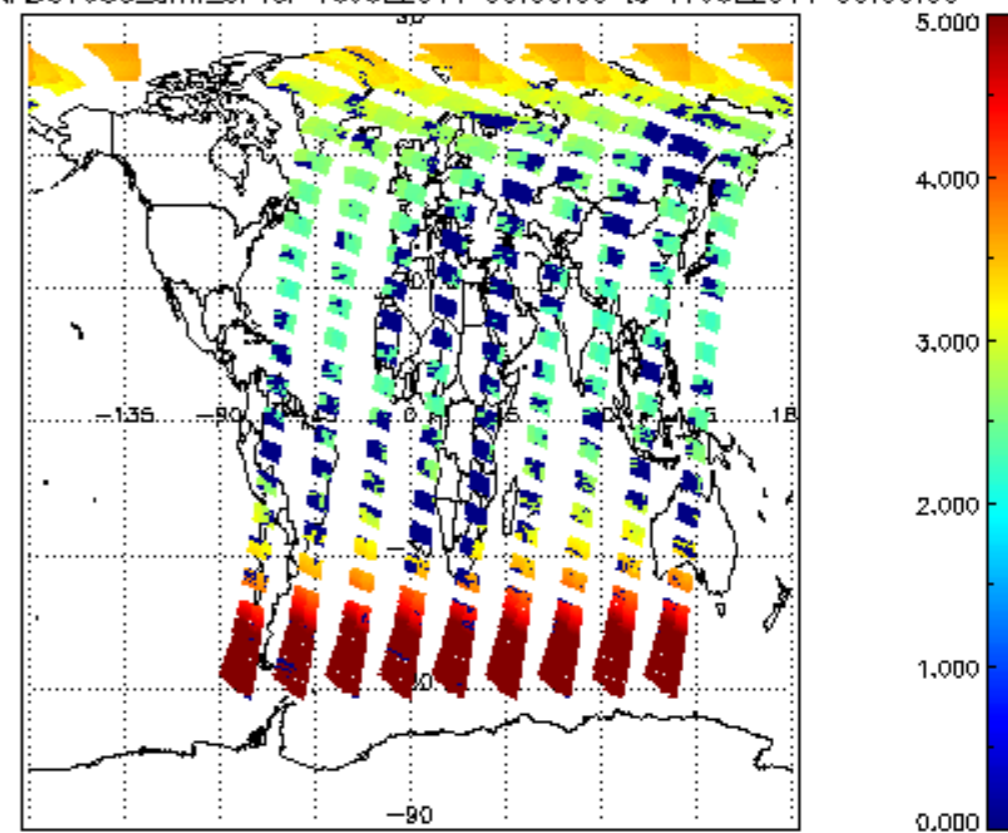
SCIOL2P_NADUV003_vcd_err for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

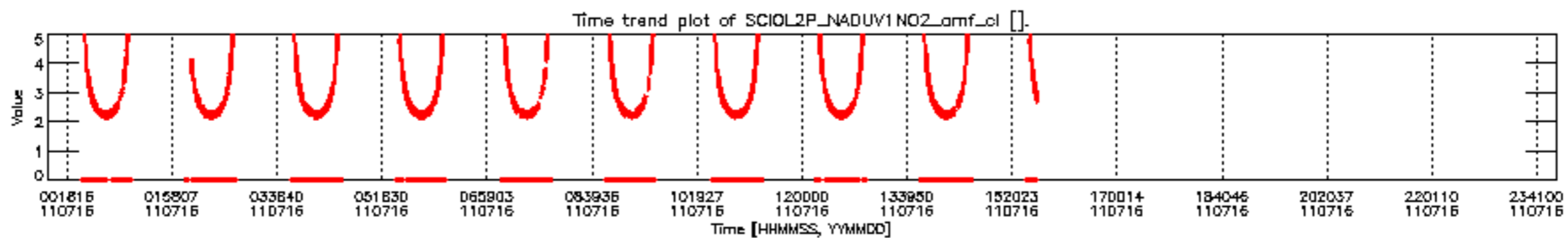
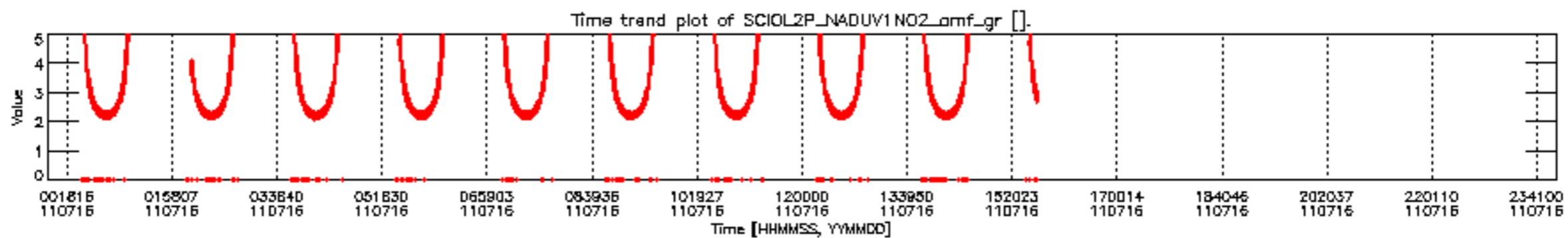
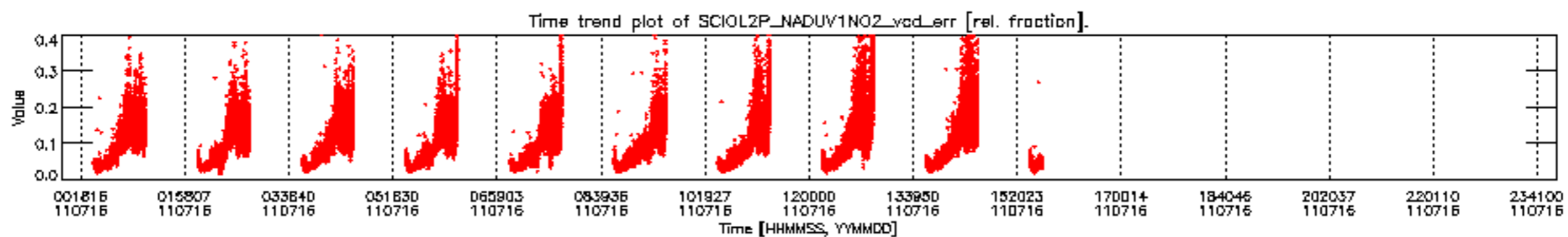
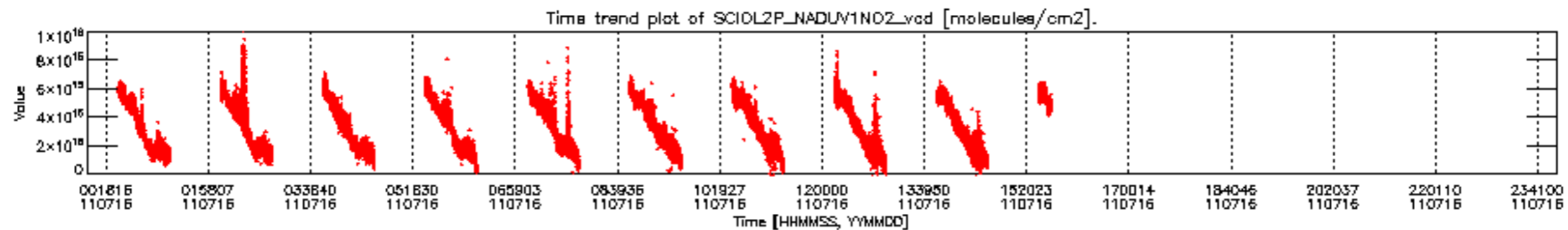


SCIOL2P_NADUV003_amf_gr for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

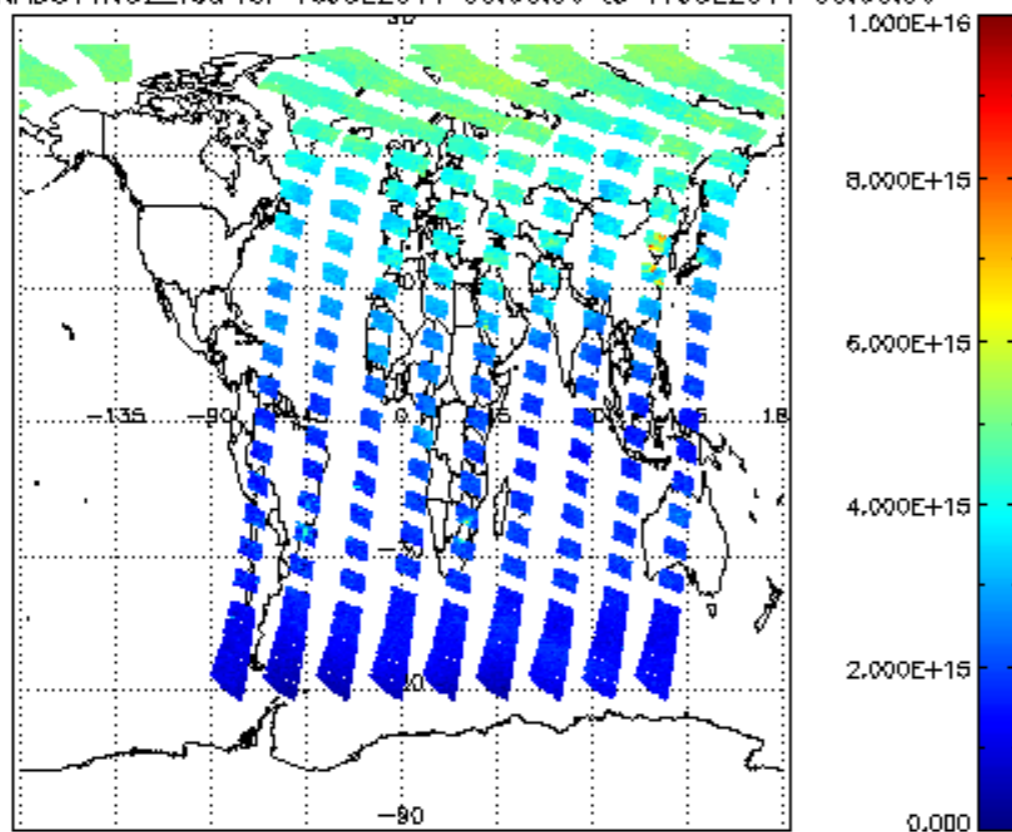


SCIOL2P_NADUV003_amf_cl for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

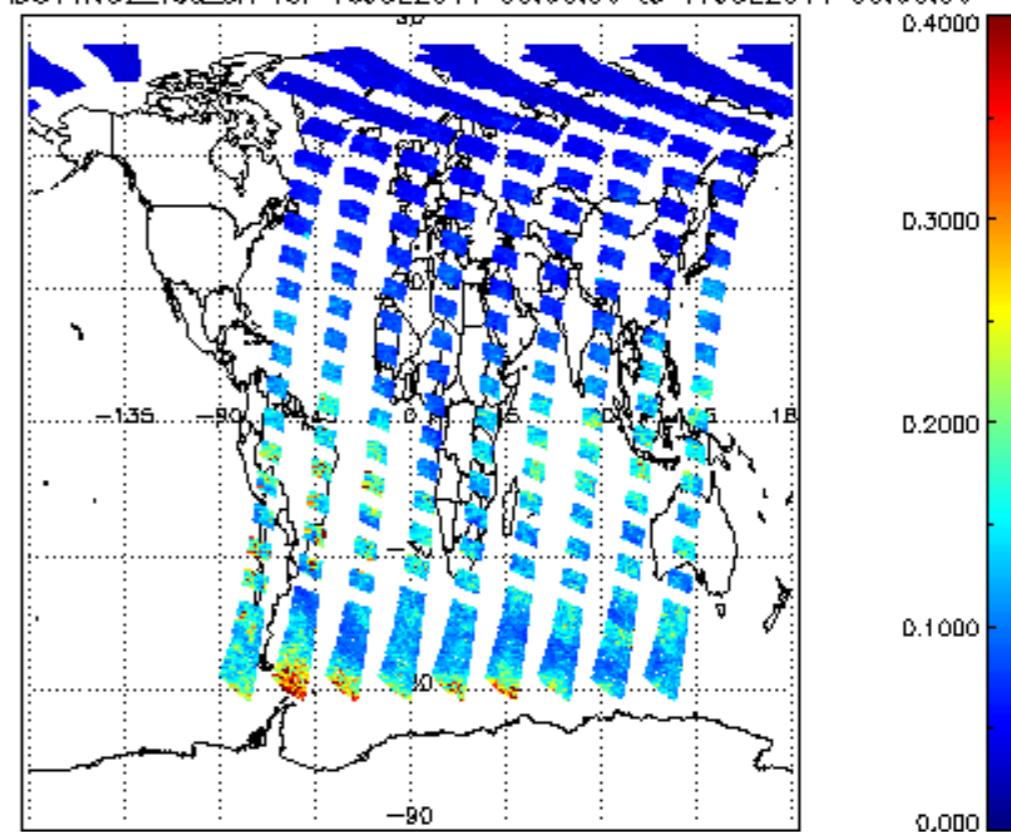




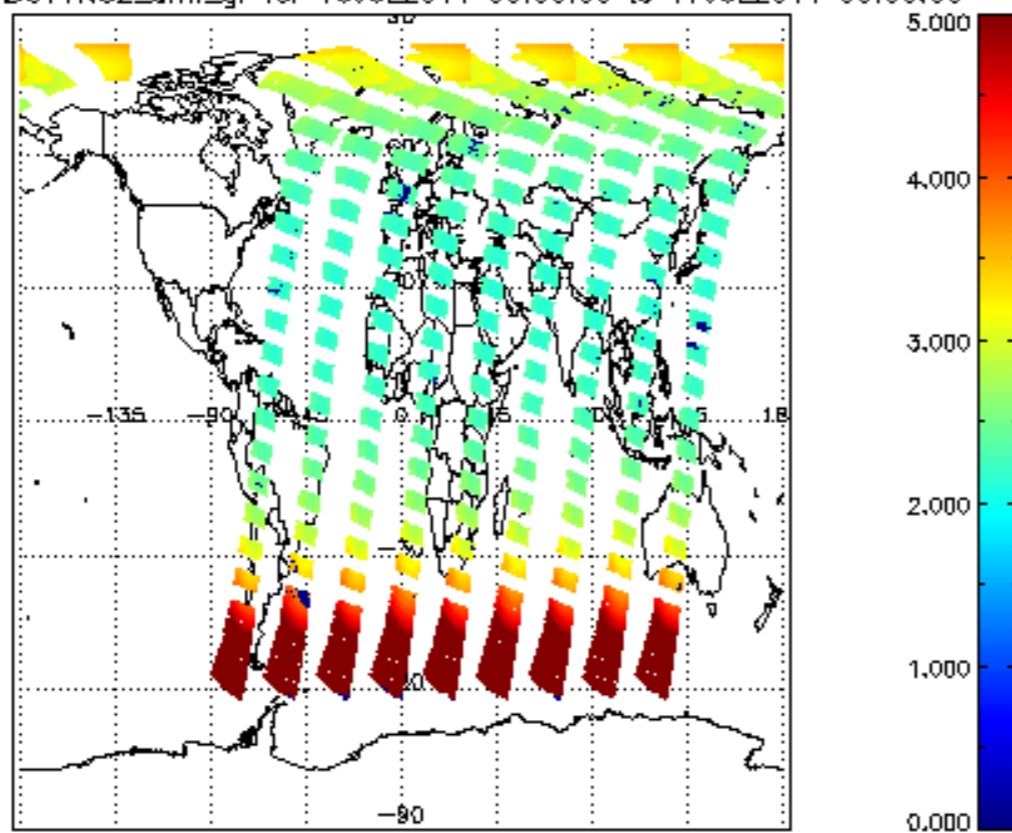
SCIOL2P_NADUV1NO2_vcd for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



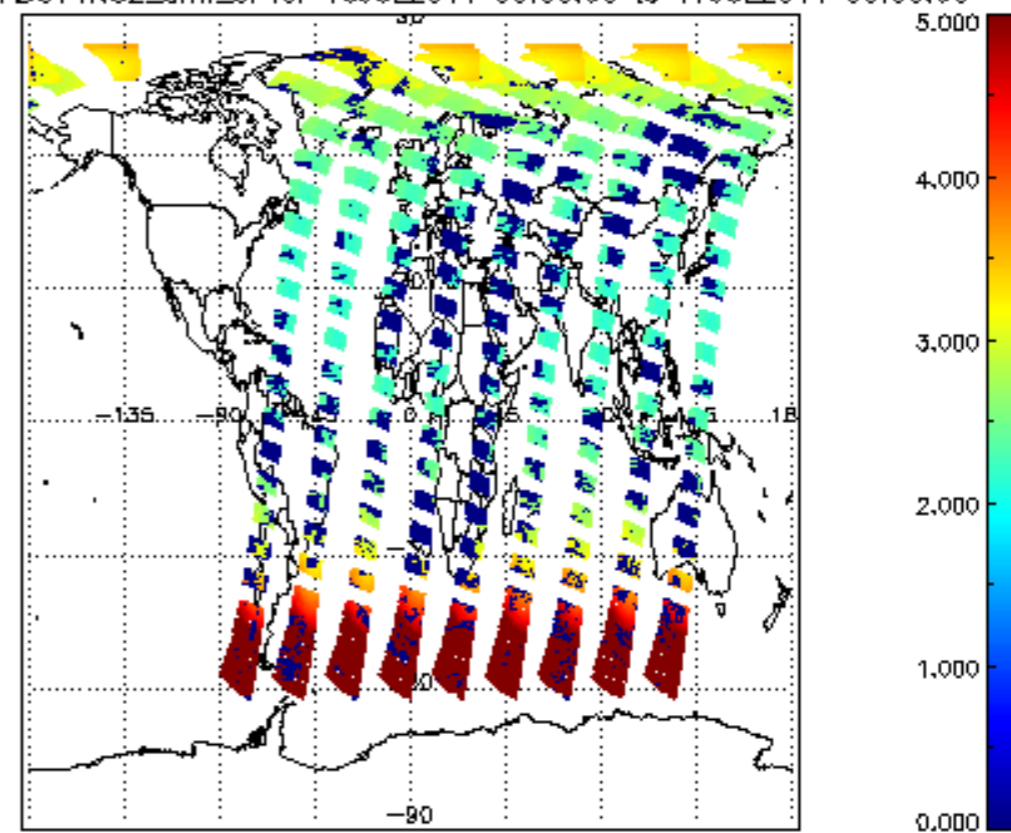
SCIOL2P_NADUV1NO2_vcd_err for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

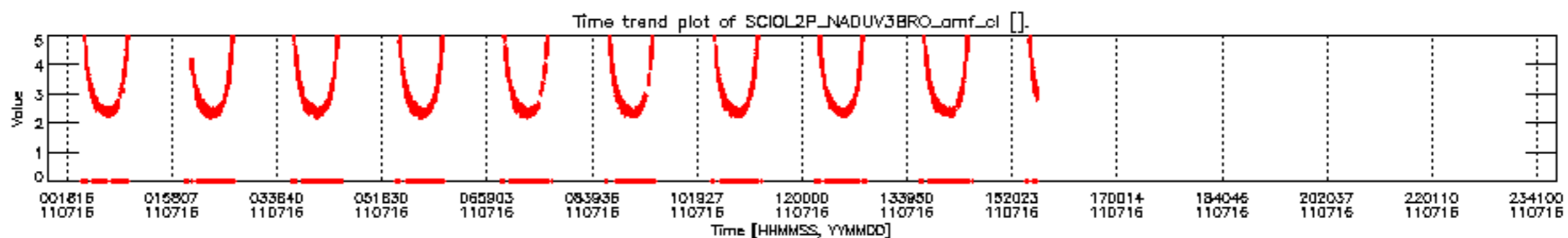
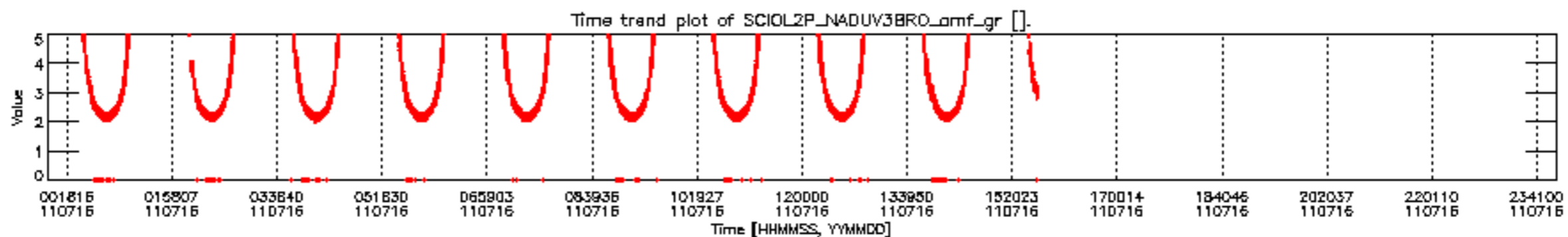
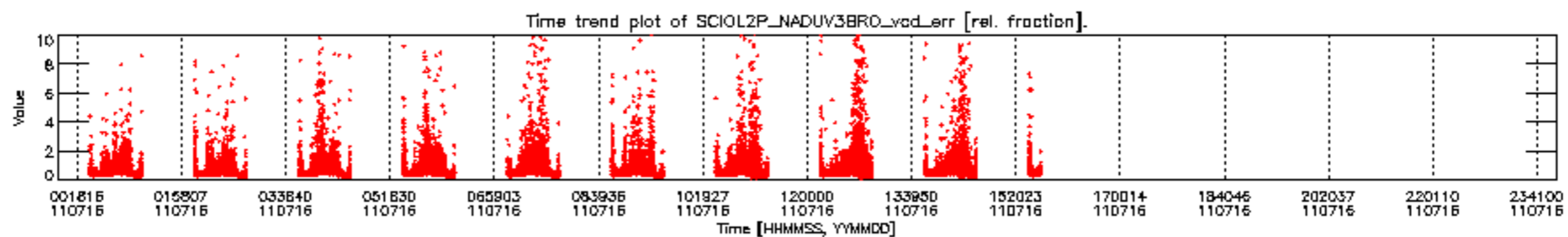
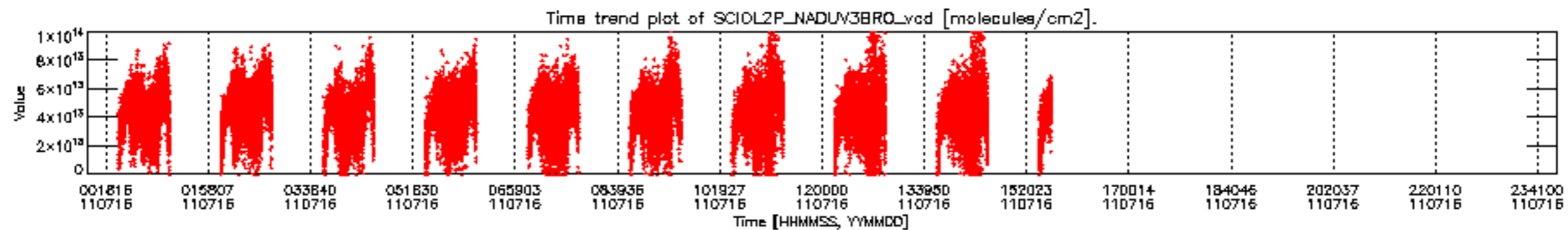


SCIOL2P_NADUV1NO2_amf_gr for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

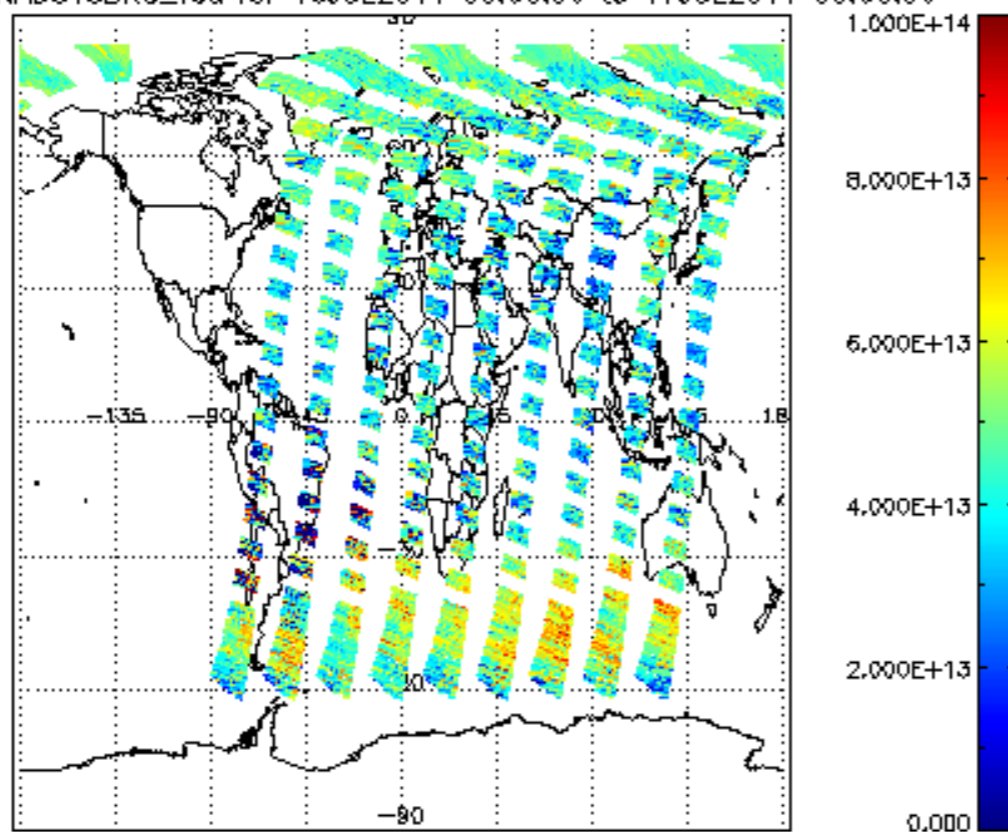


SCIOL2P_NADUV1NO2_amf_cl for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

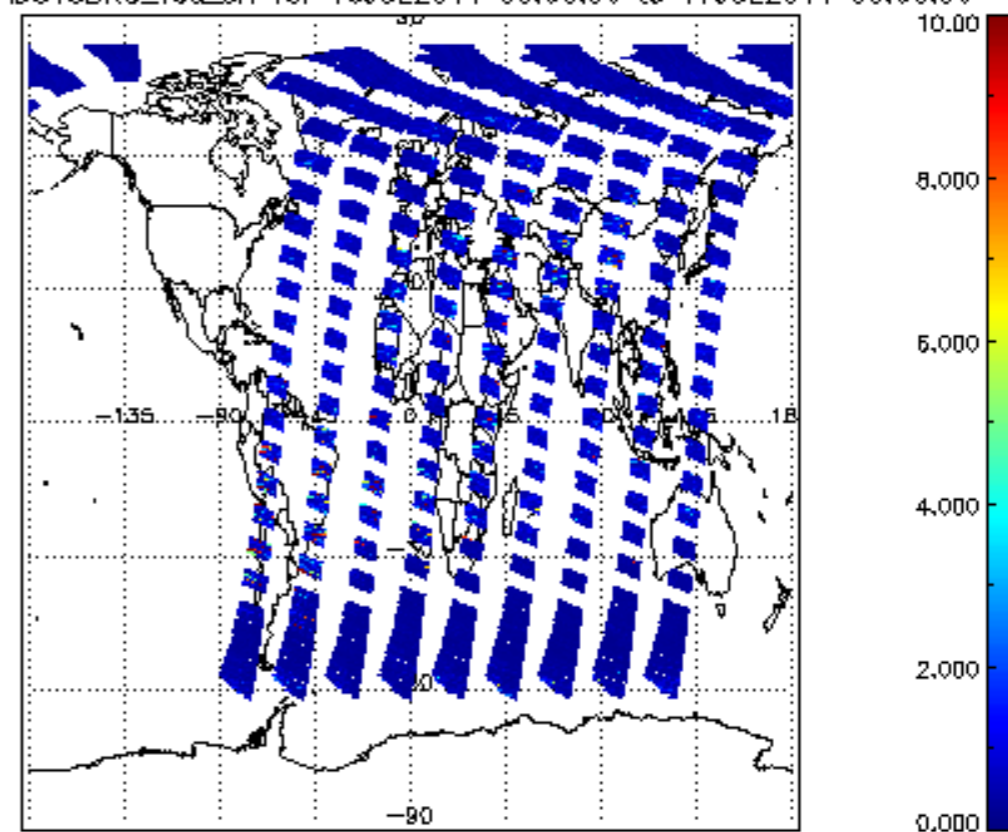




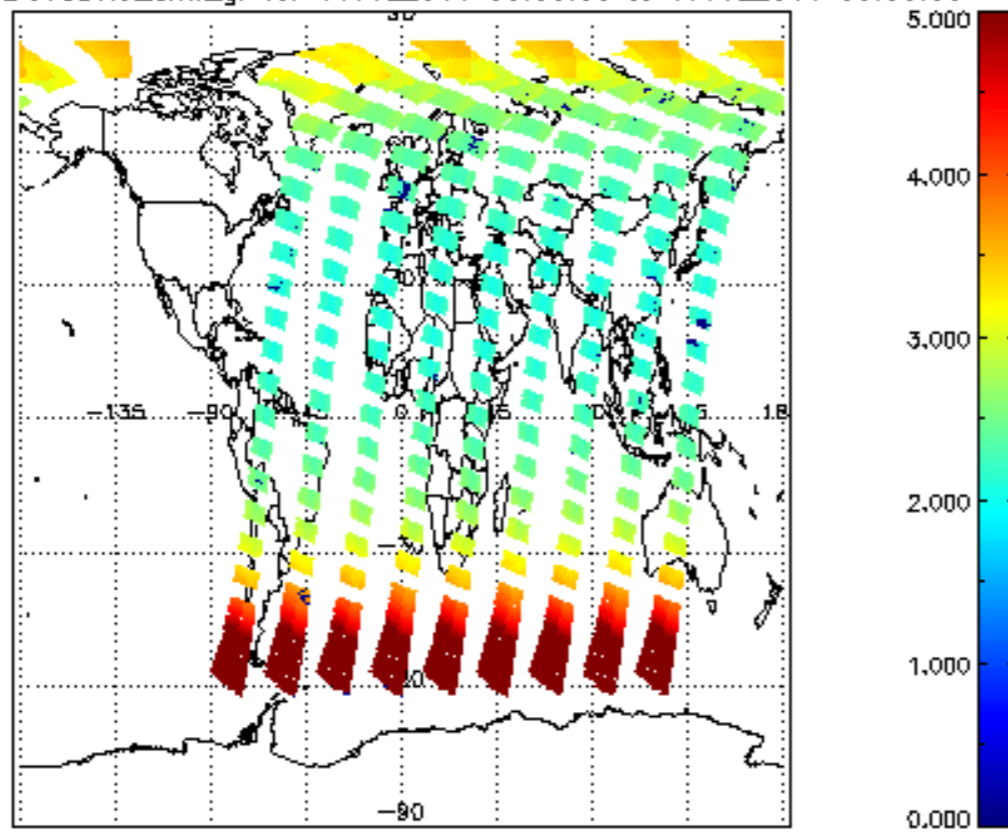
SCIOL2P_NADUV3BRO_vcd for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



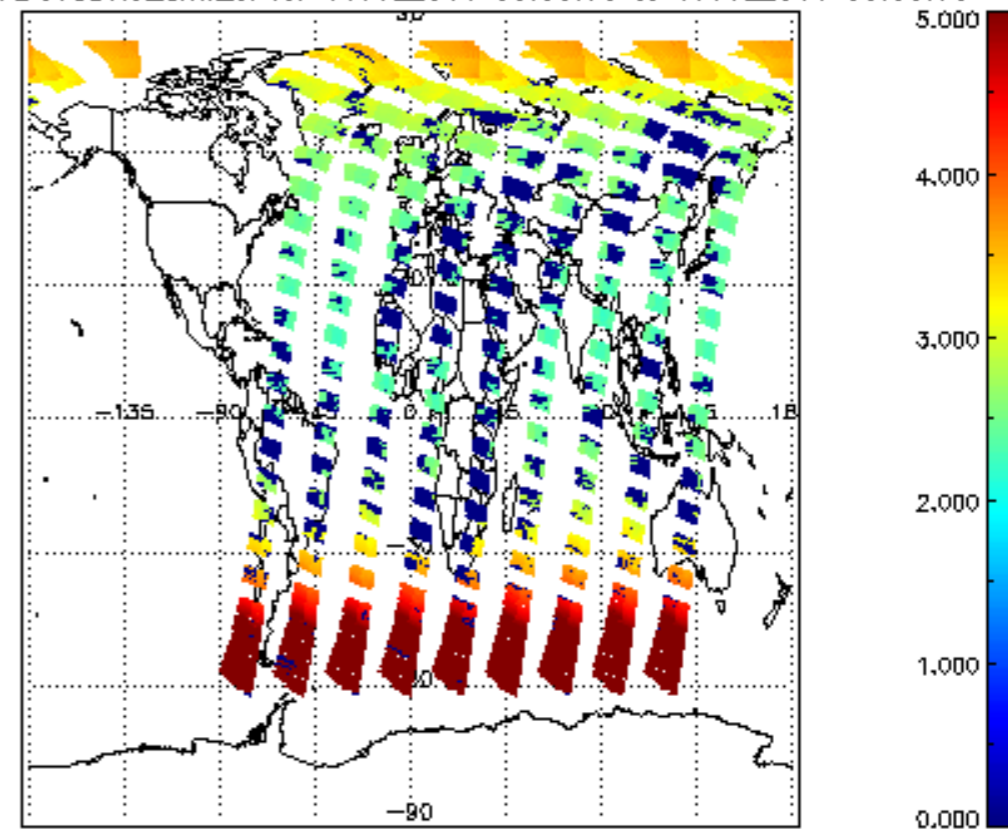
SCIOL2P_NADUV3BRO_vcd_err for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

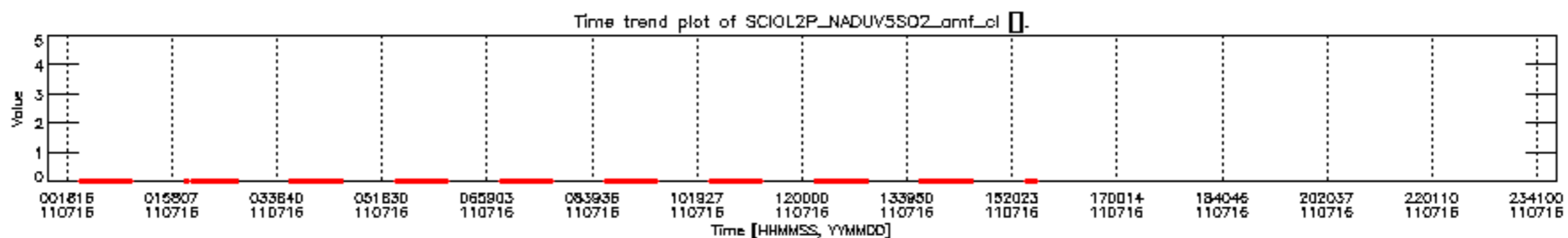
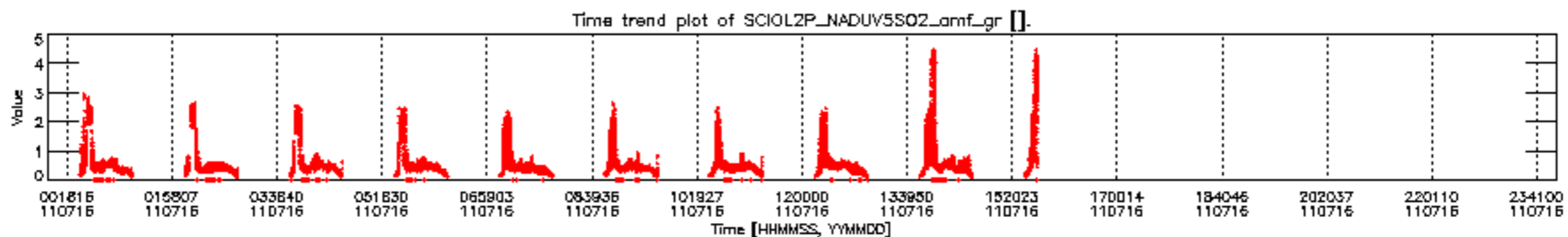
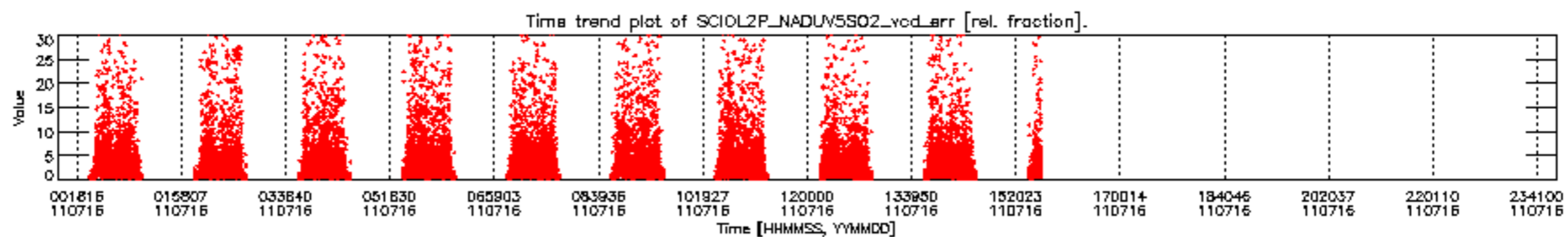
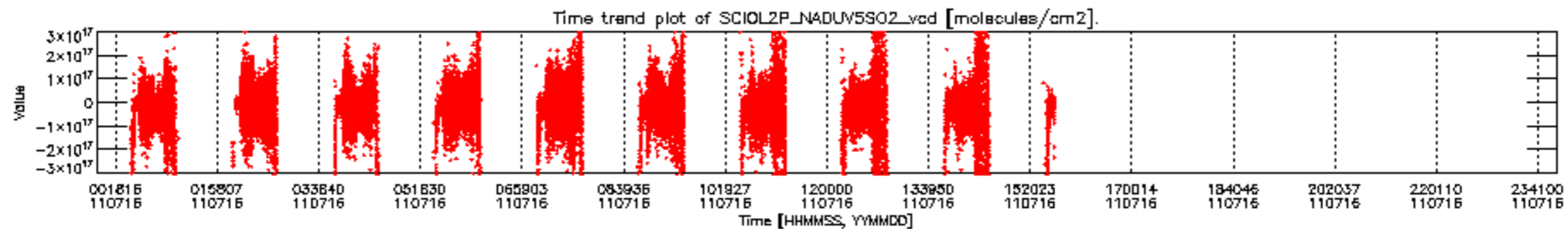


SCIOL2P_NADUV3BRO_amf_gr for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

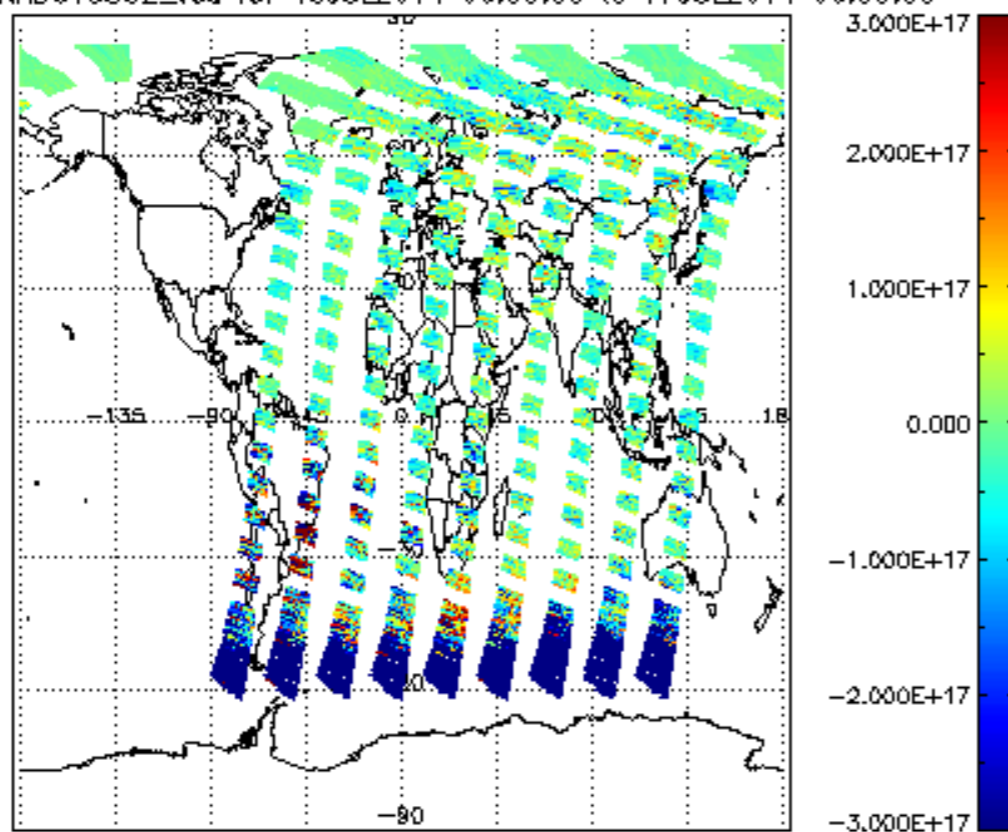


SCIOL2P_NADUV3BRO_amf_cl for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

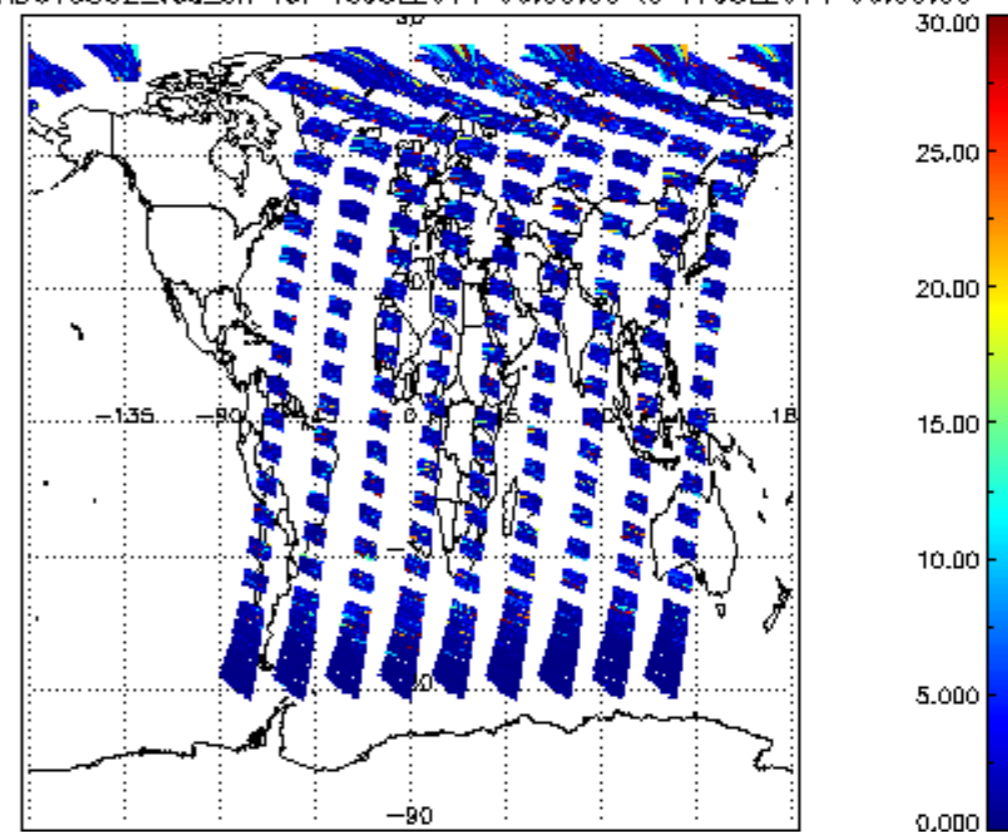




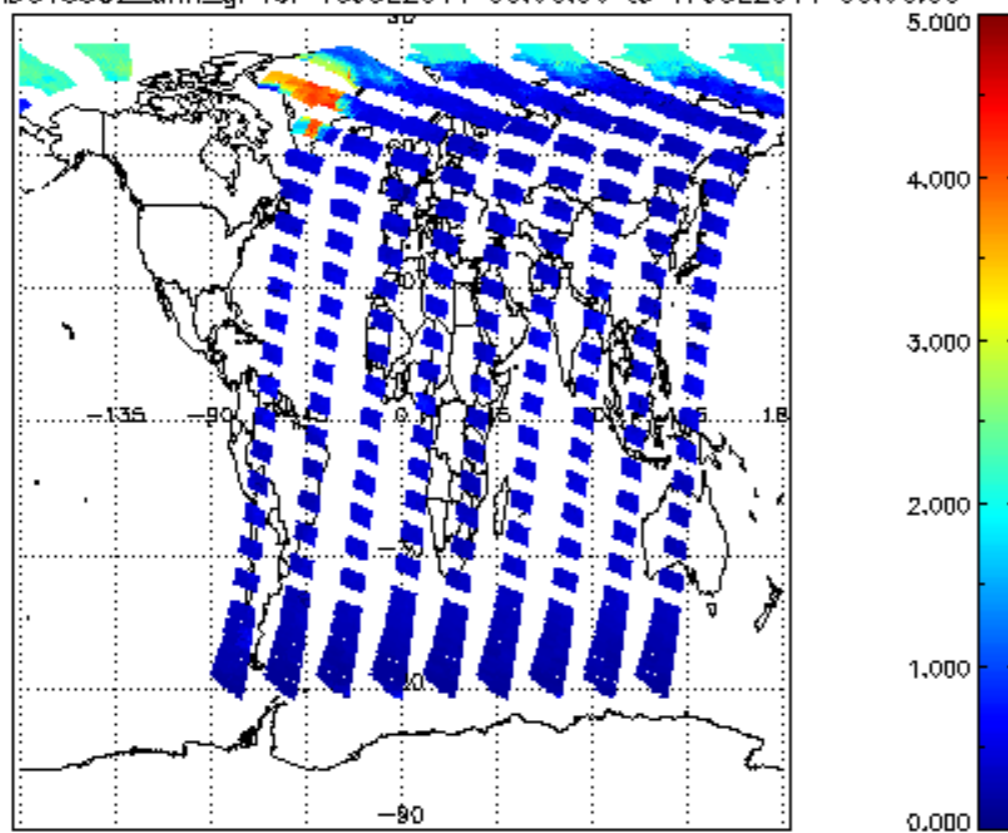
SCIOL2P_NADUV5S02_vcd for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



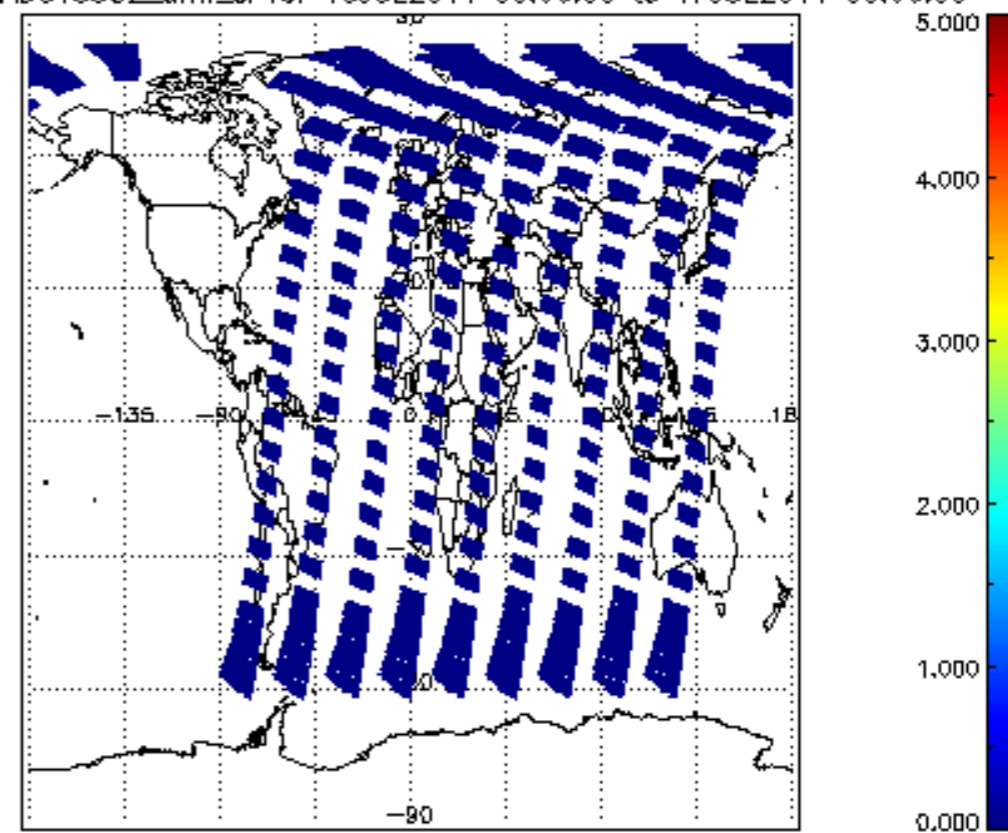
SCIOL2P_NADUV5S02_vcd_err for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

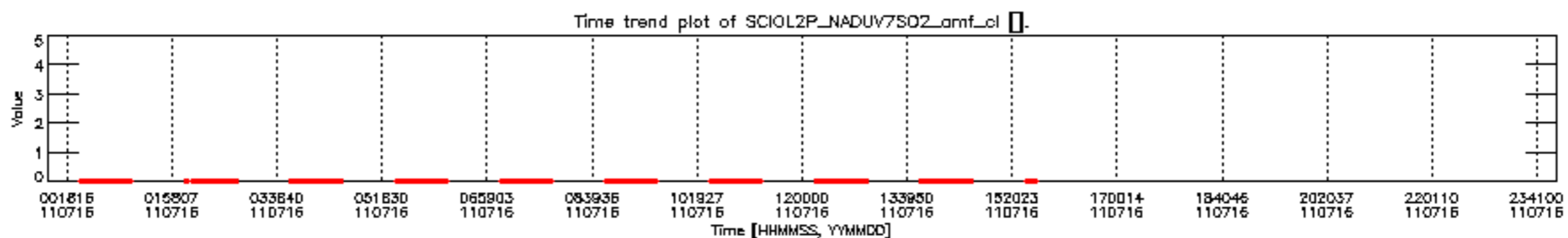
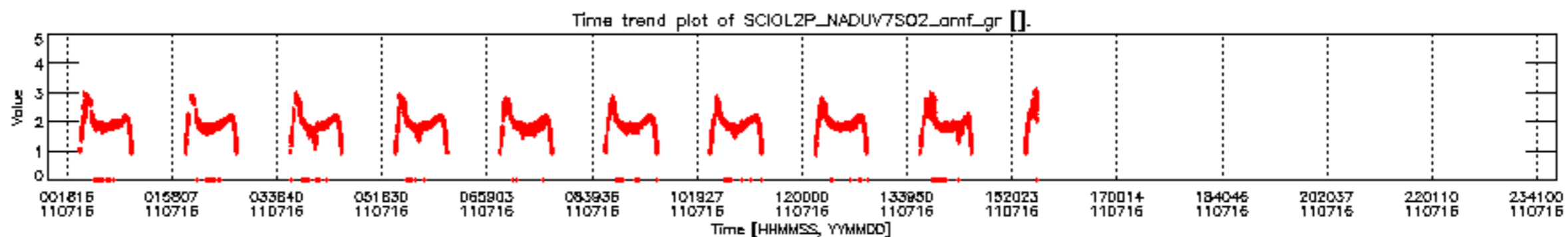
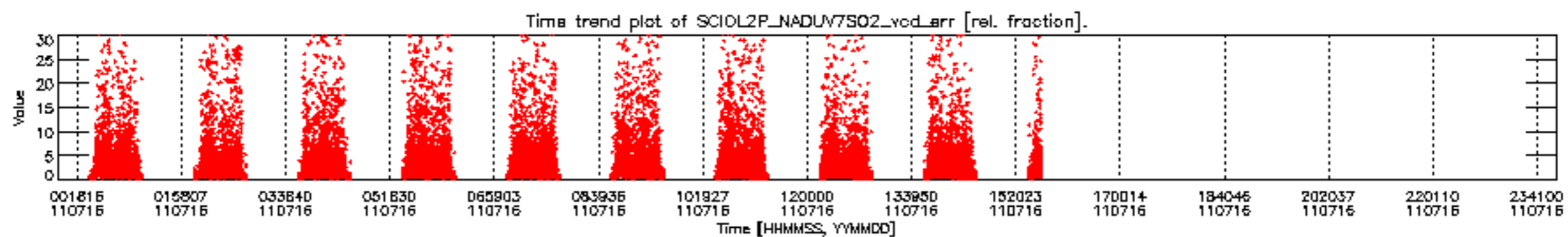
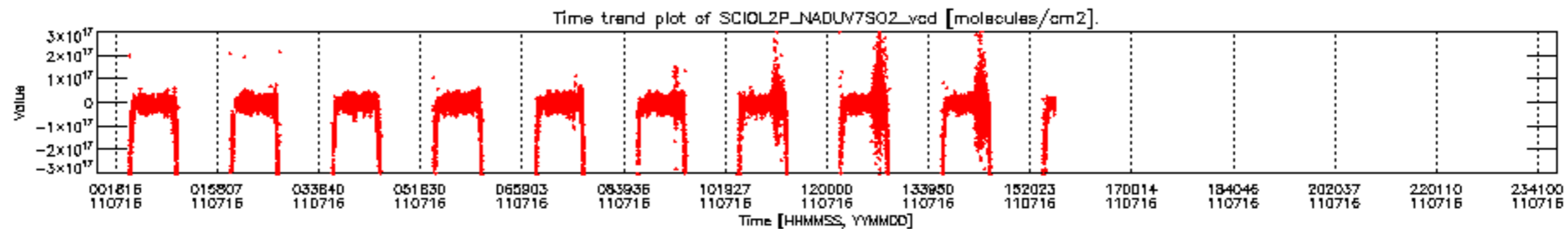


SCIOL2P_NADUV5S02_amf_gr for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

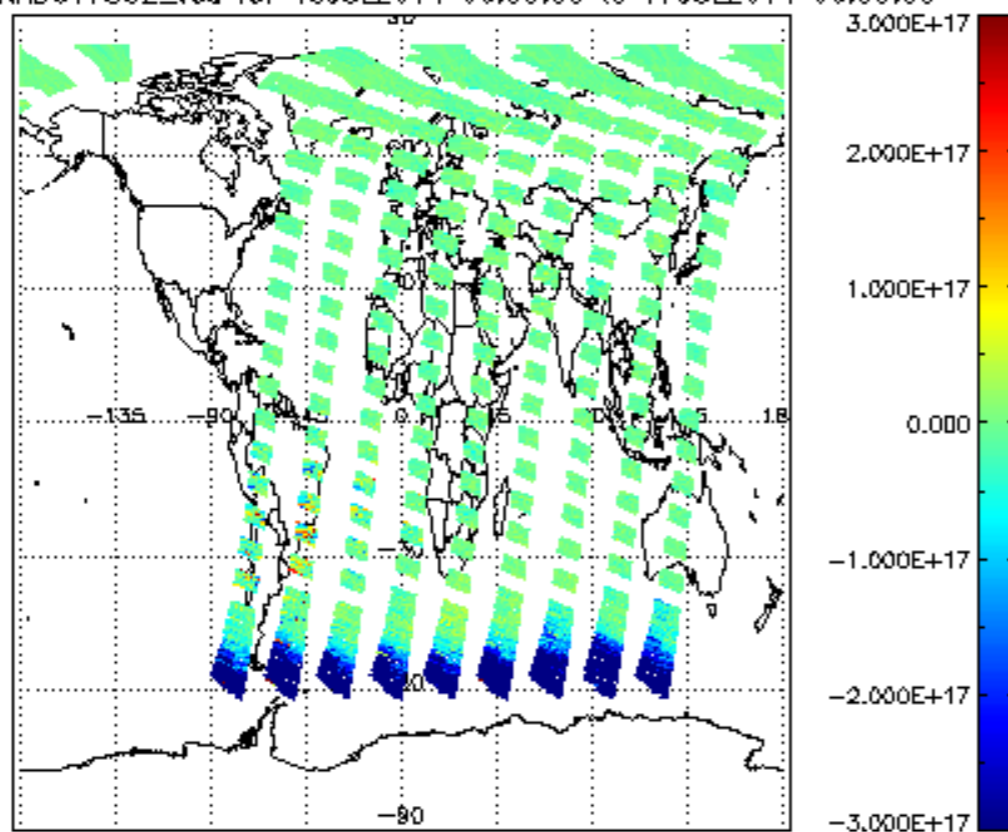


SCIOL2P_NADUV5S02_amf_cl for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

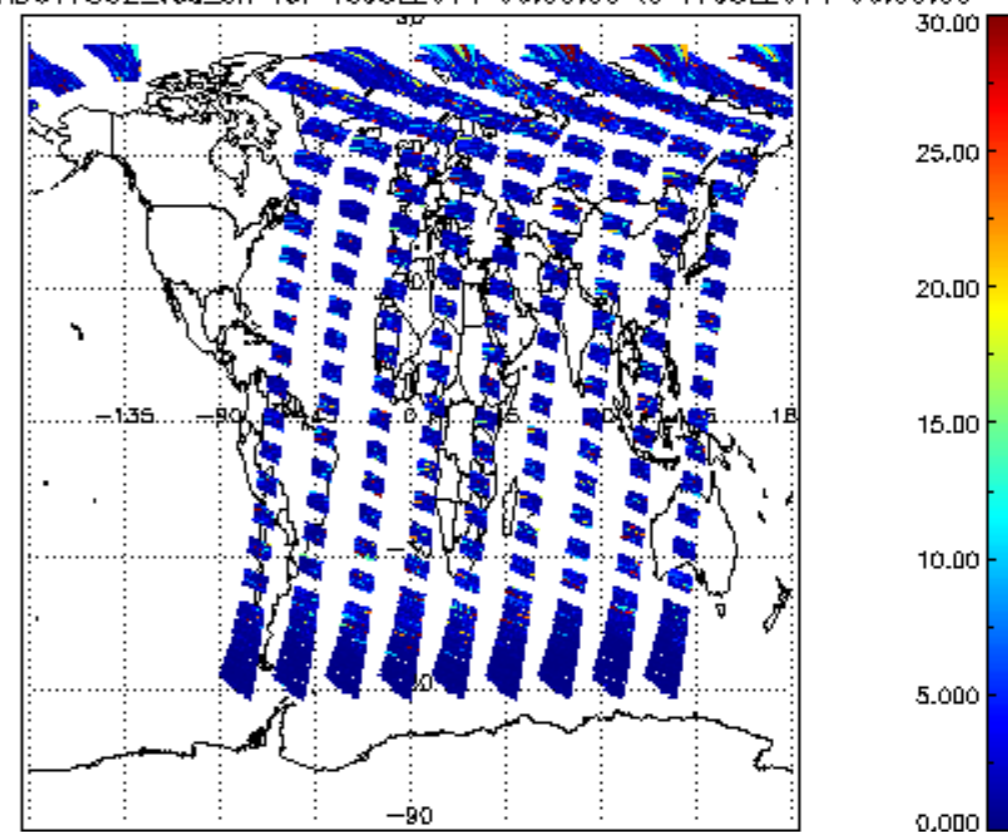




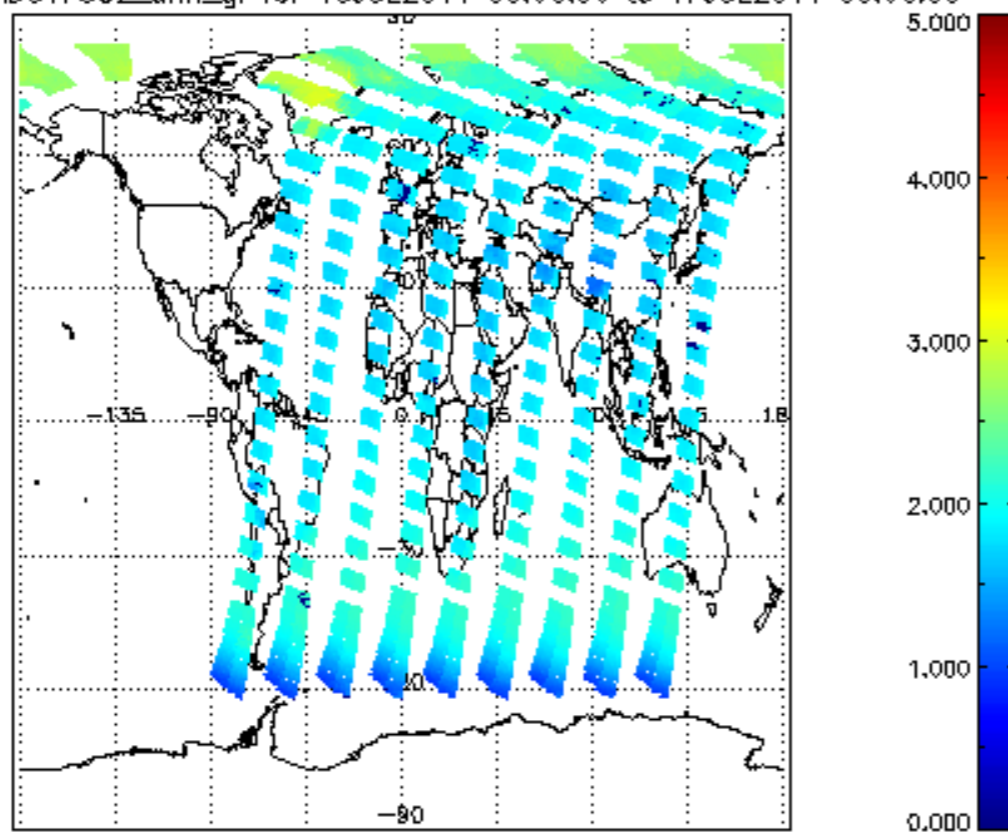
SCIOL2P_NADUV7S02_vcd for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



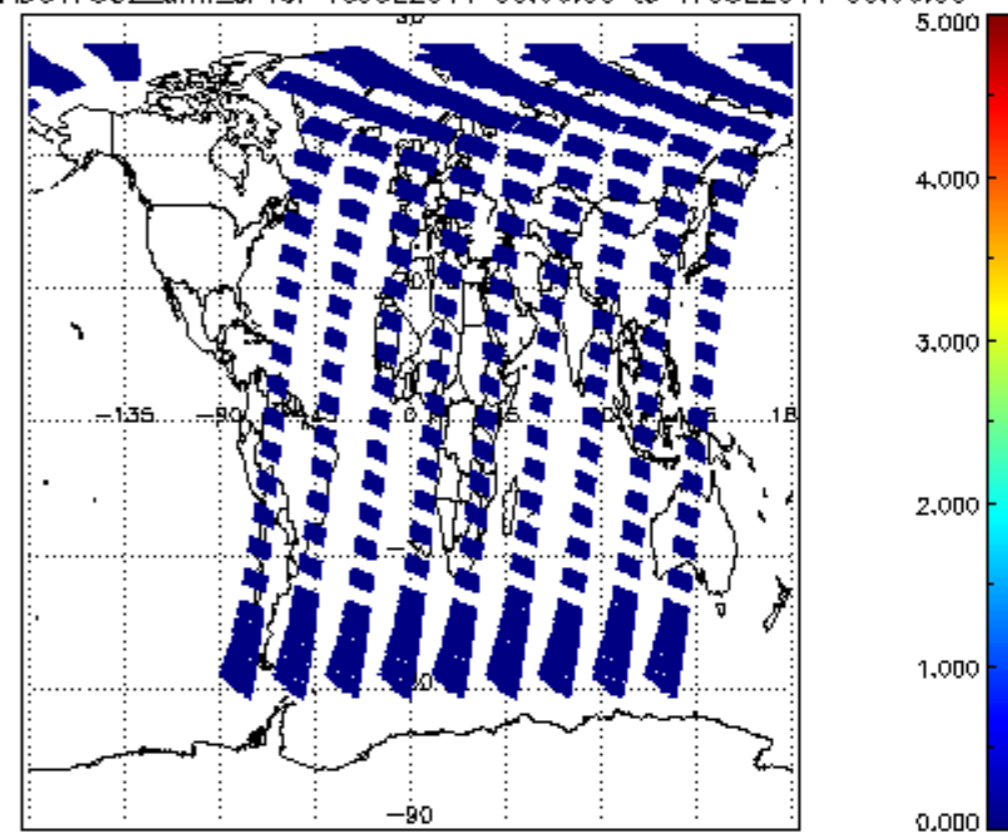
SCIOL2P_NADUV7S02_vcd_err for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

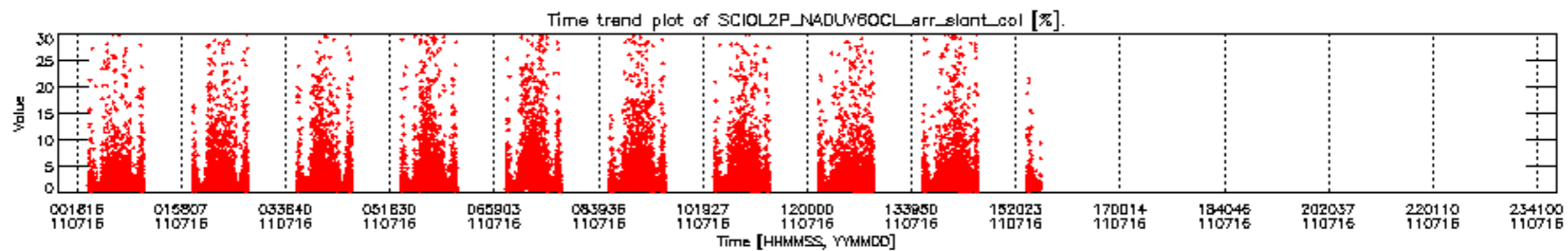
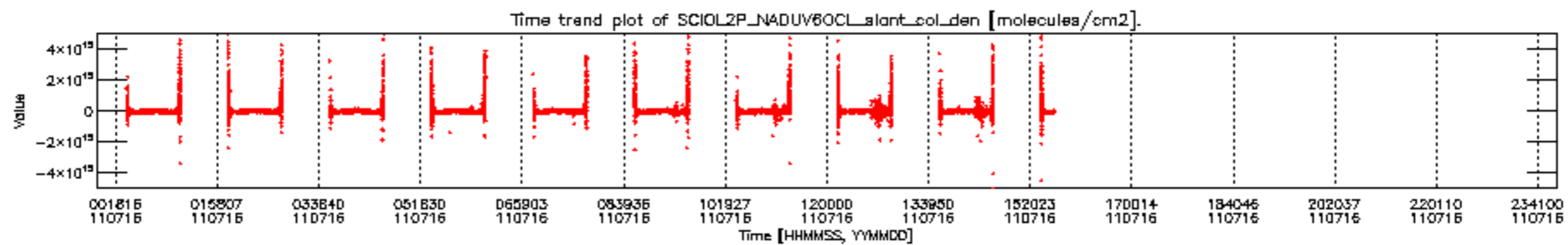


SCIOL2P_NADUV7S02_amf_gr for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

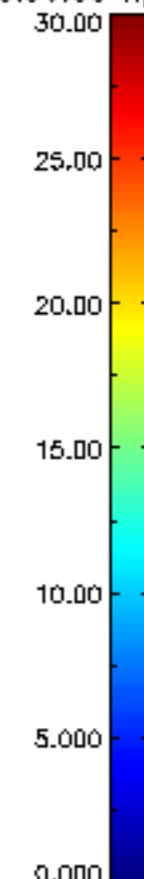
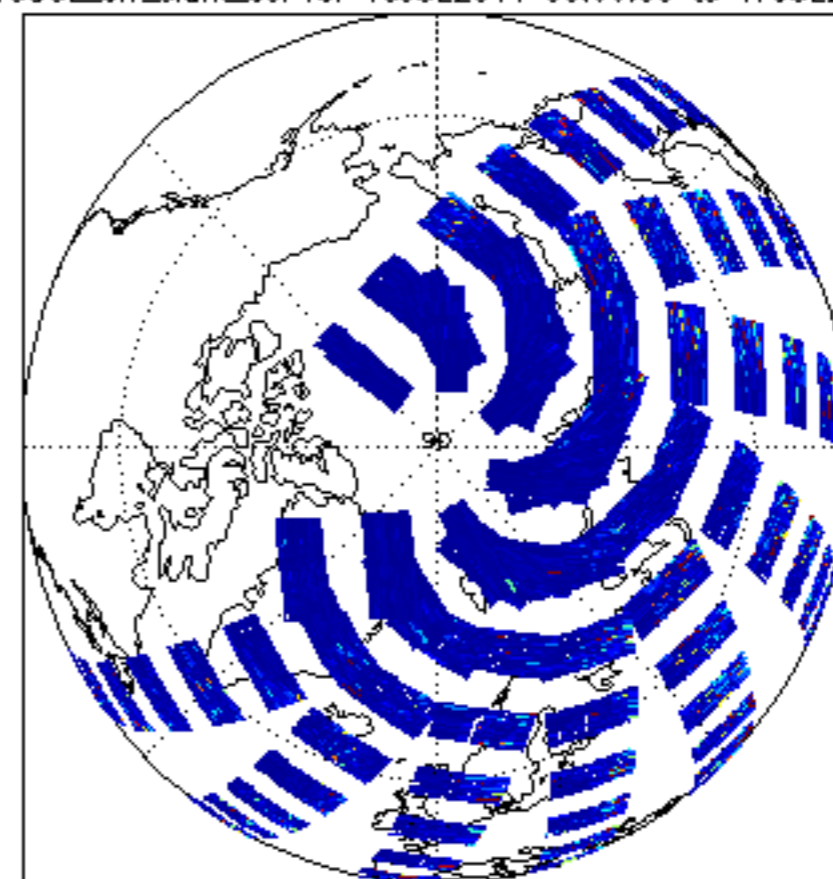
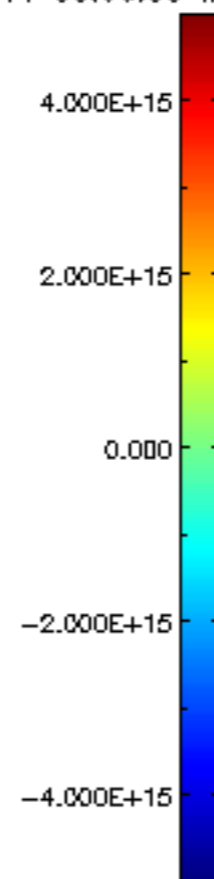
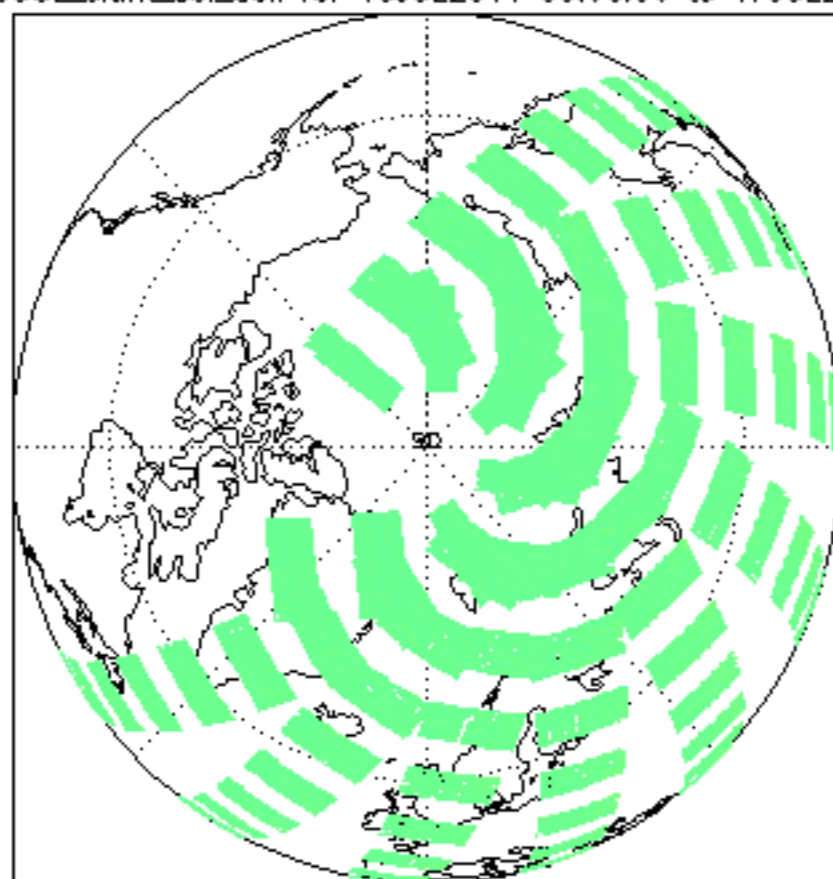


SCIOL2P_NADUV7S02_amf_cl for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

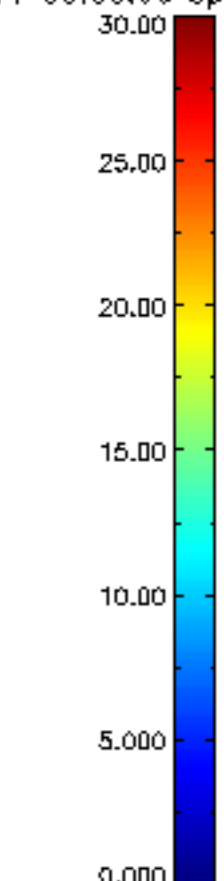
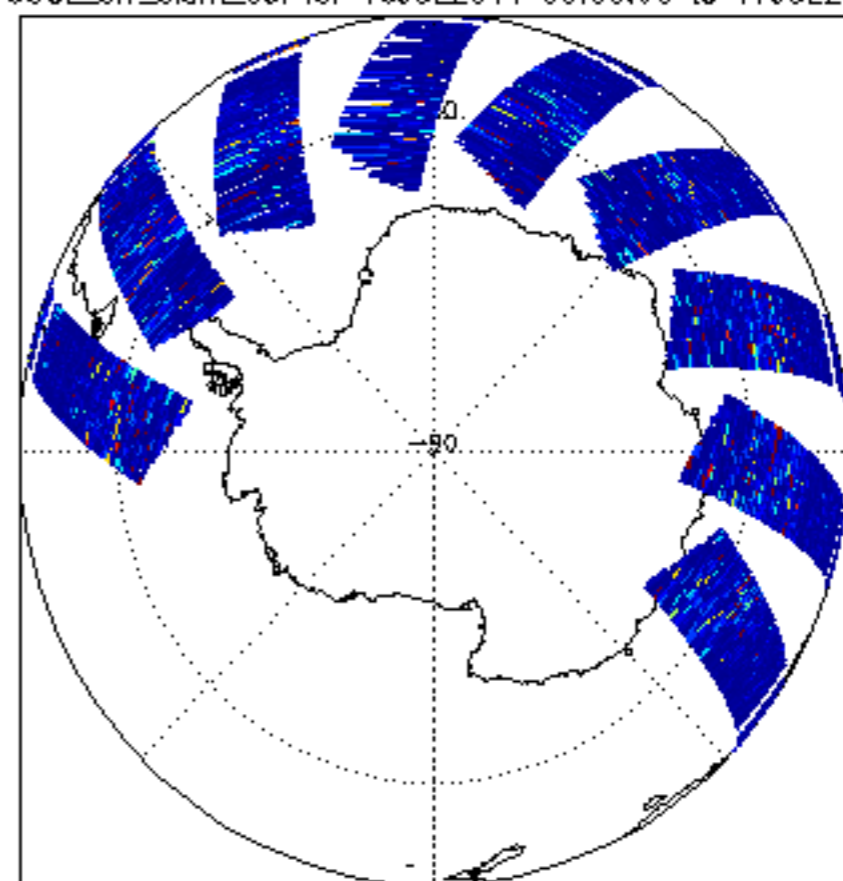
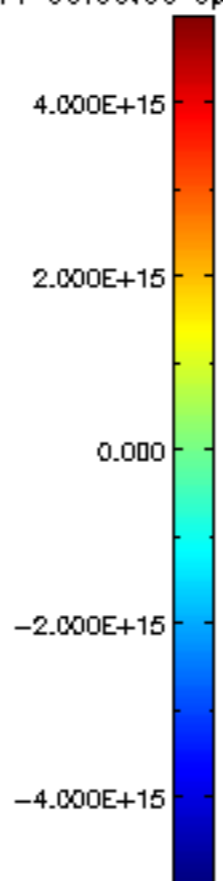
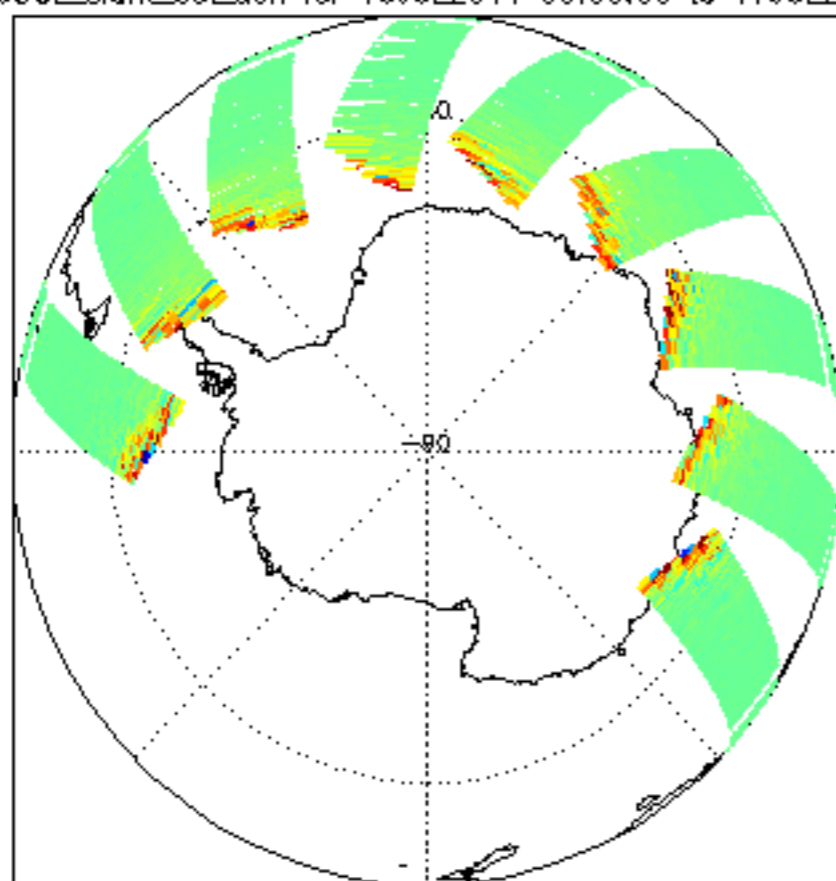


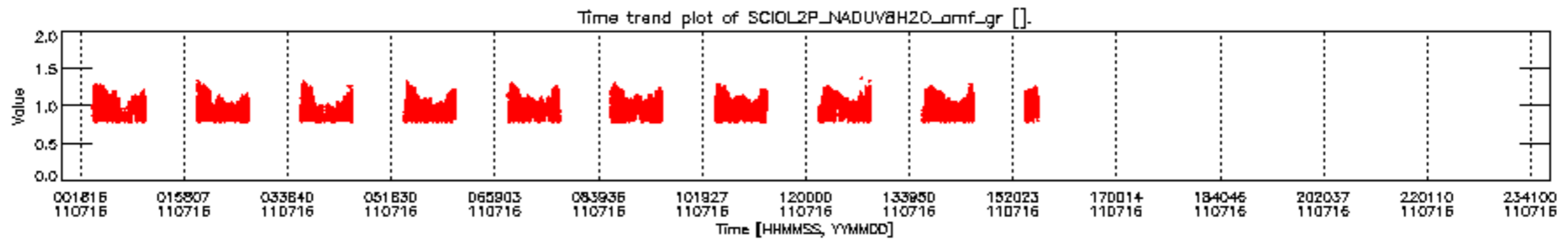
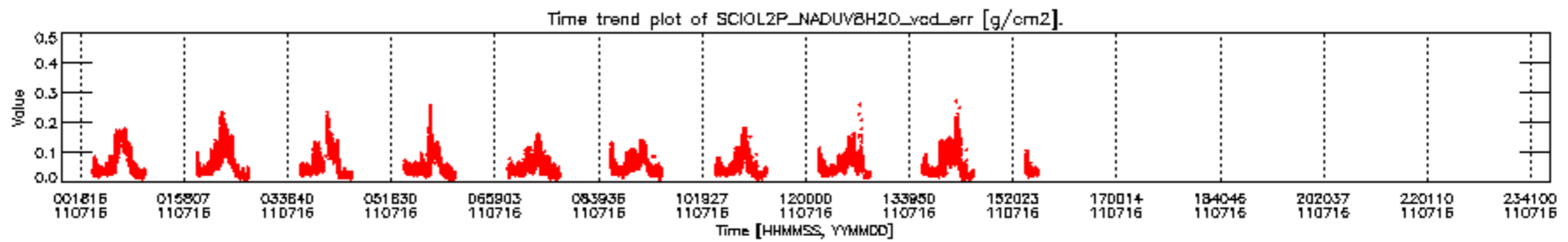
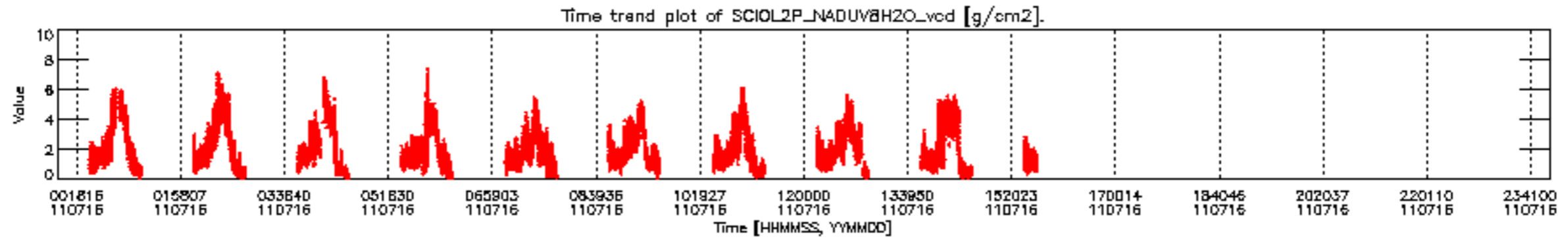


iCIOL2P_NADUV6OCL_slant_col_den for 16JUL2011 00:00:00 to 17JUL2011 00:00:00 np 3iCIOL2P_NADUV6OCL_err_slant_col for 16JUL2011 00:00:00 to 17JUL2011 00:00:00 np

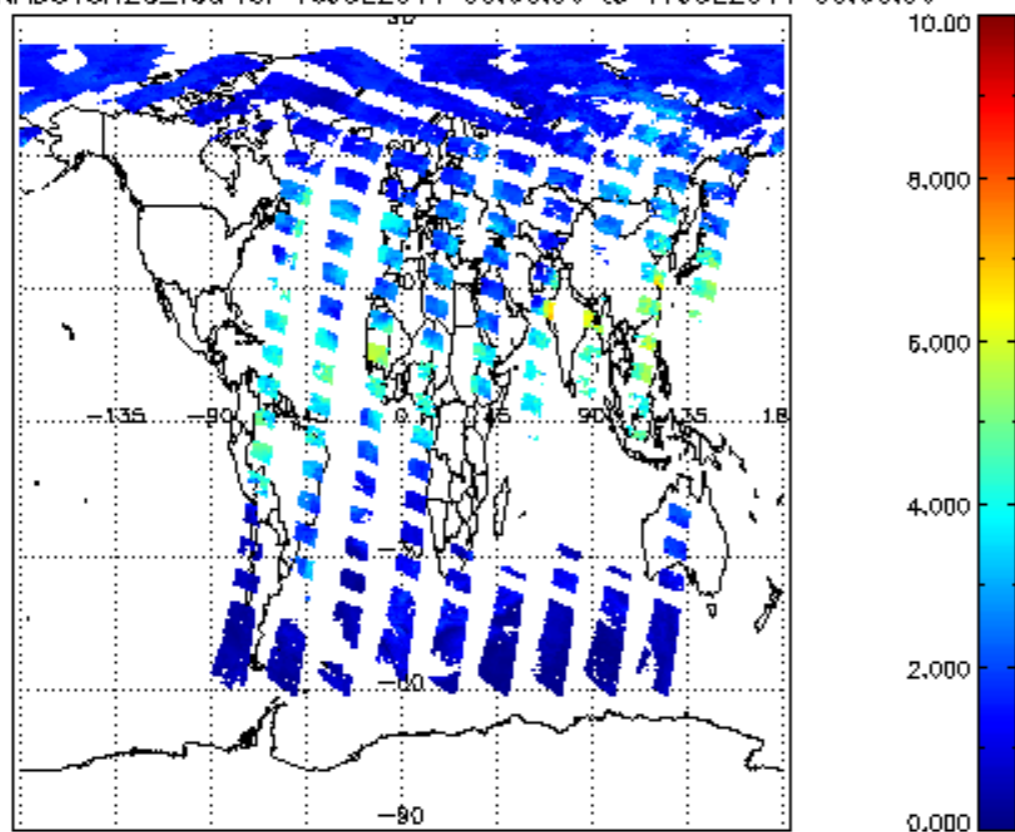


iCIOL2P_NADUV6OCL_slant_coLden for 16JUL2011 00:00:00 to 17JUL2011 00:00:00 sp 3iCIOL2P_NADUV6OCL_em_slant_col for 16JUL2011 00:00:00 to 17JUL2011 00:00:00 sp

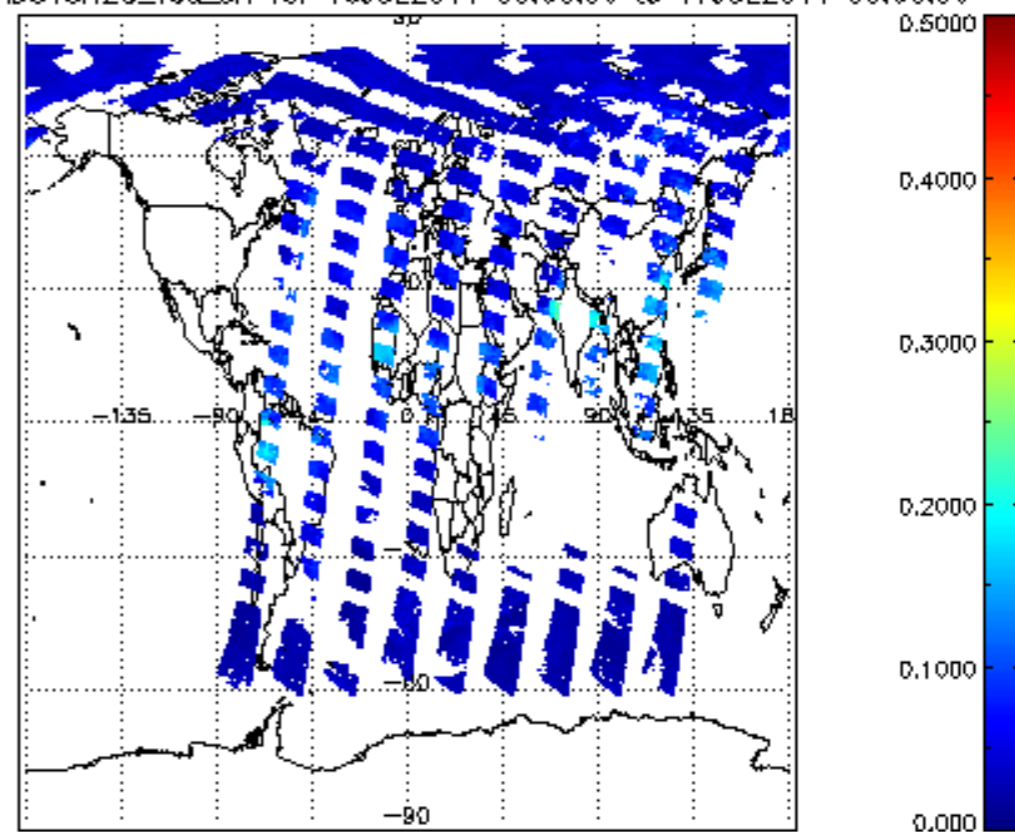




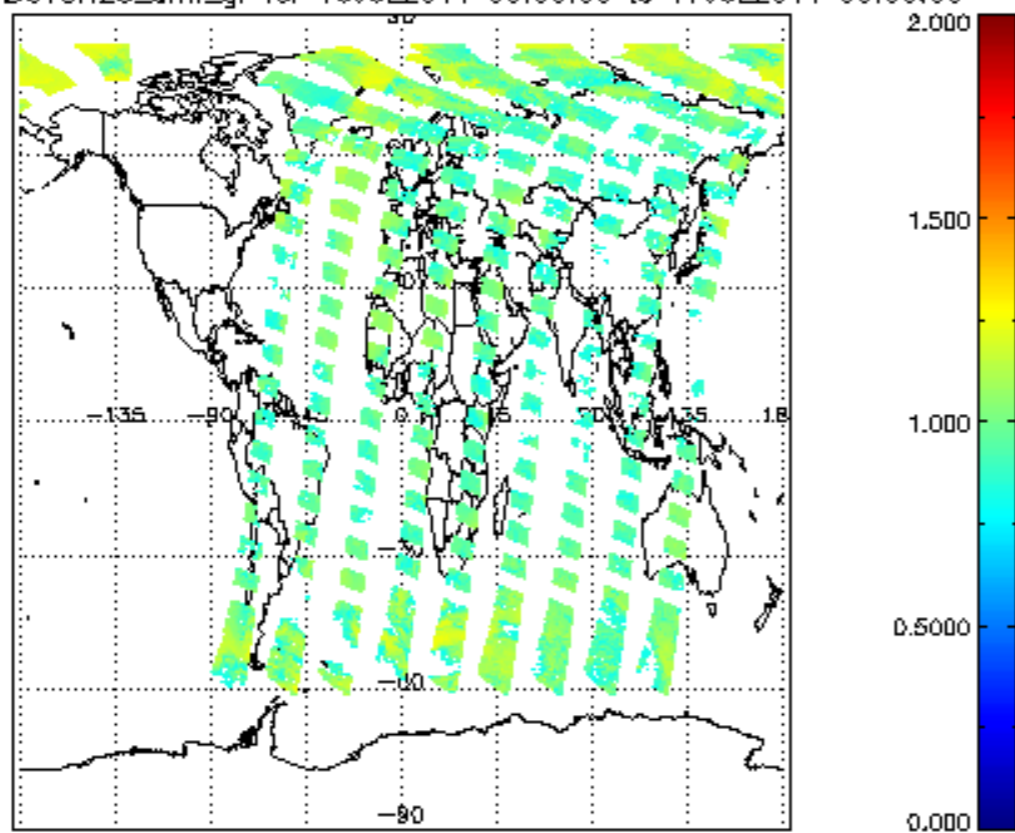
SCIOL2P_NADUV8H2O_vcd for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

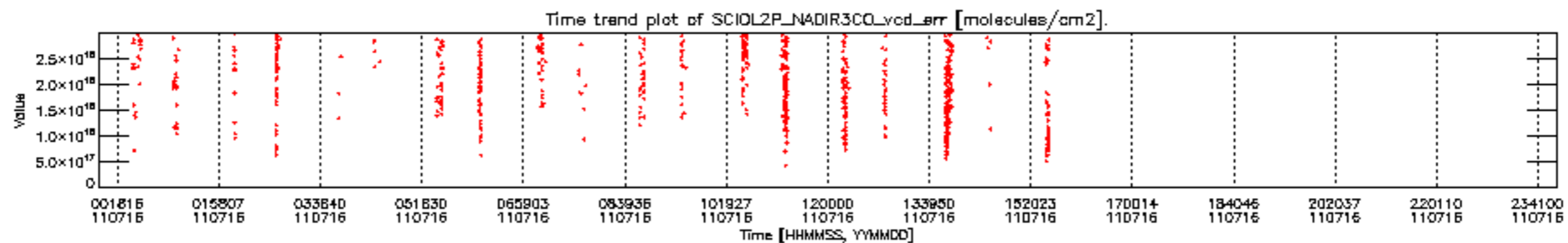
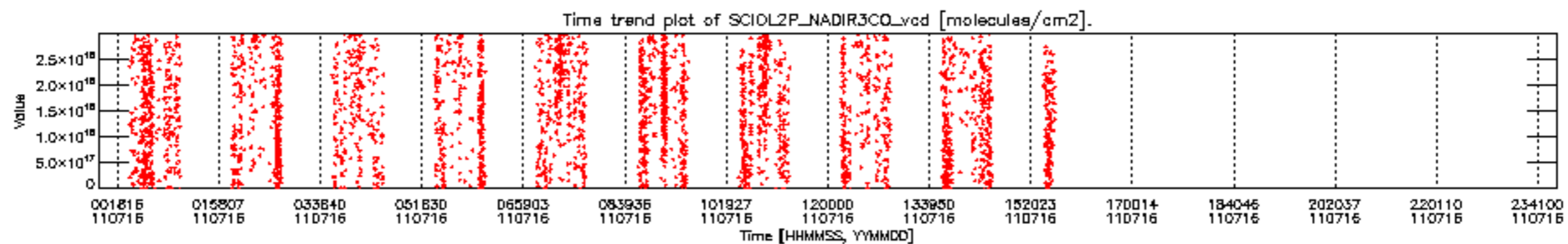


SCIOL2P_NADUV8H2O_vcd_err for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

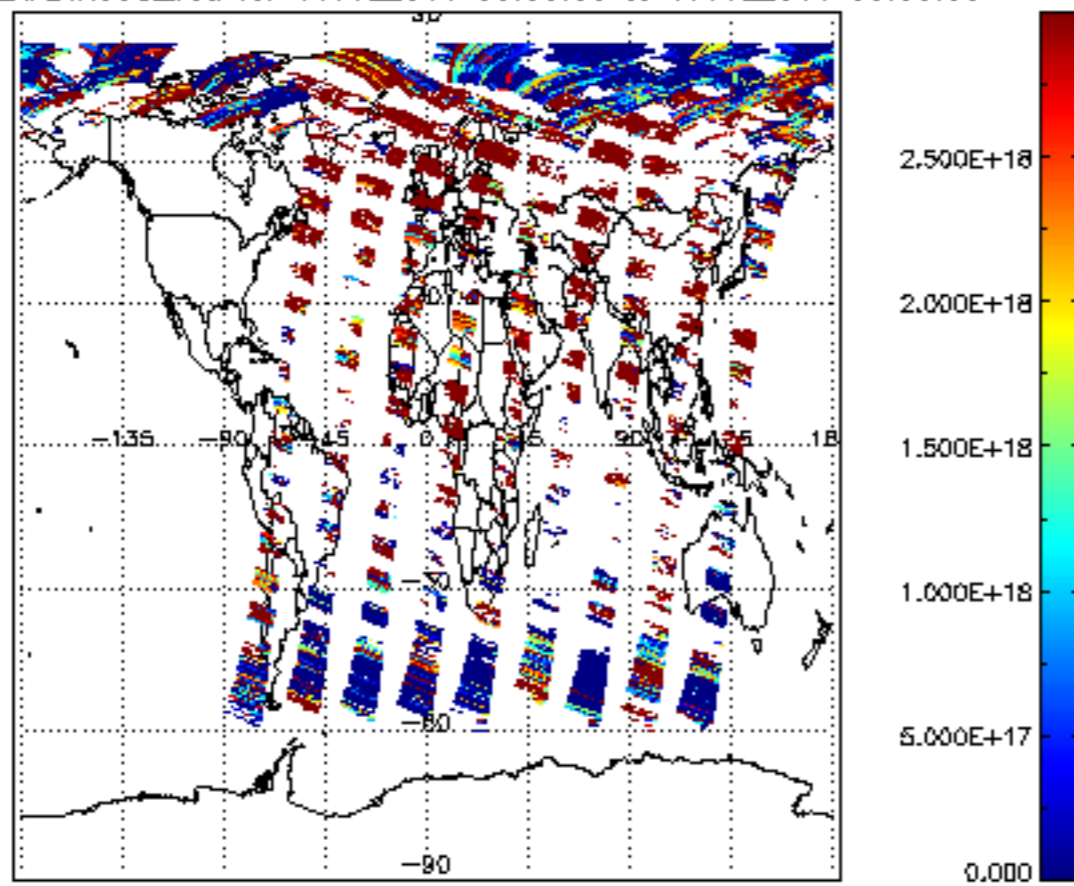


SCIOL2P_NADUV8H2O_amf_gr for 16JUL2011 00:00:00 to 17JUL2011 00:00:00

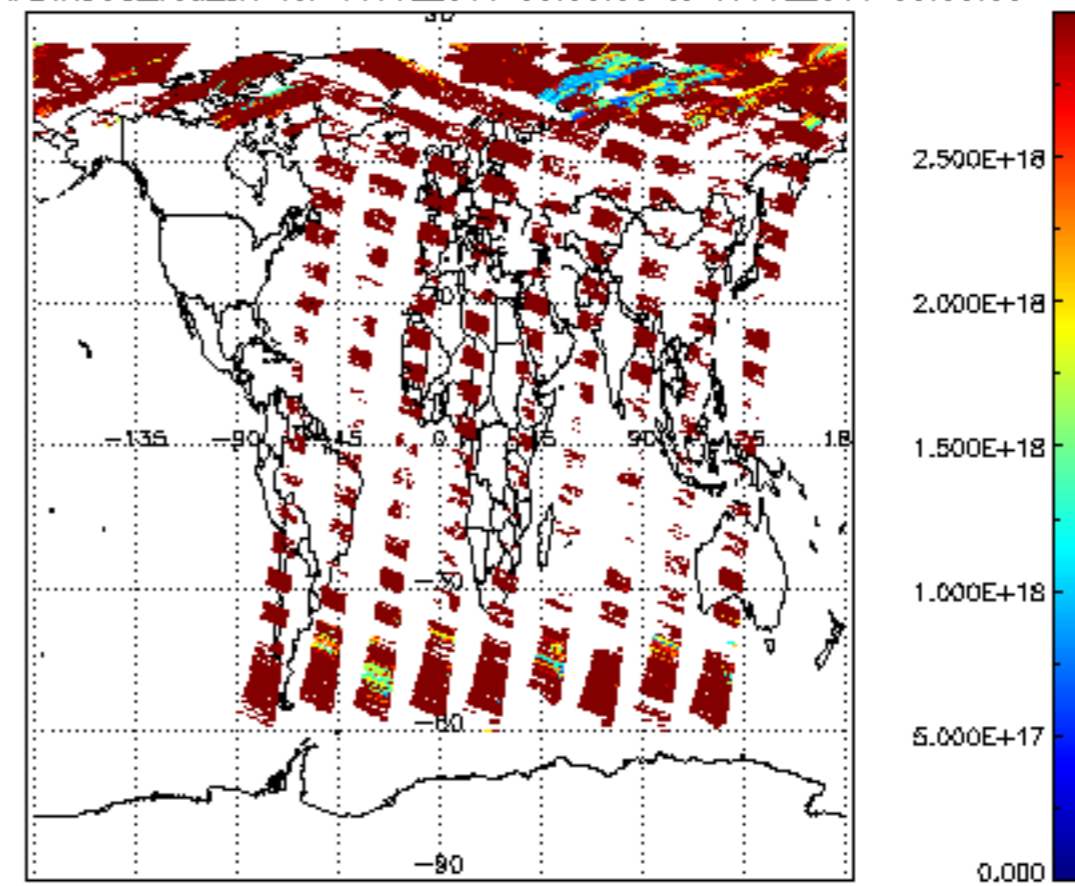




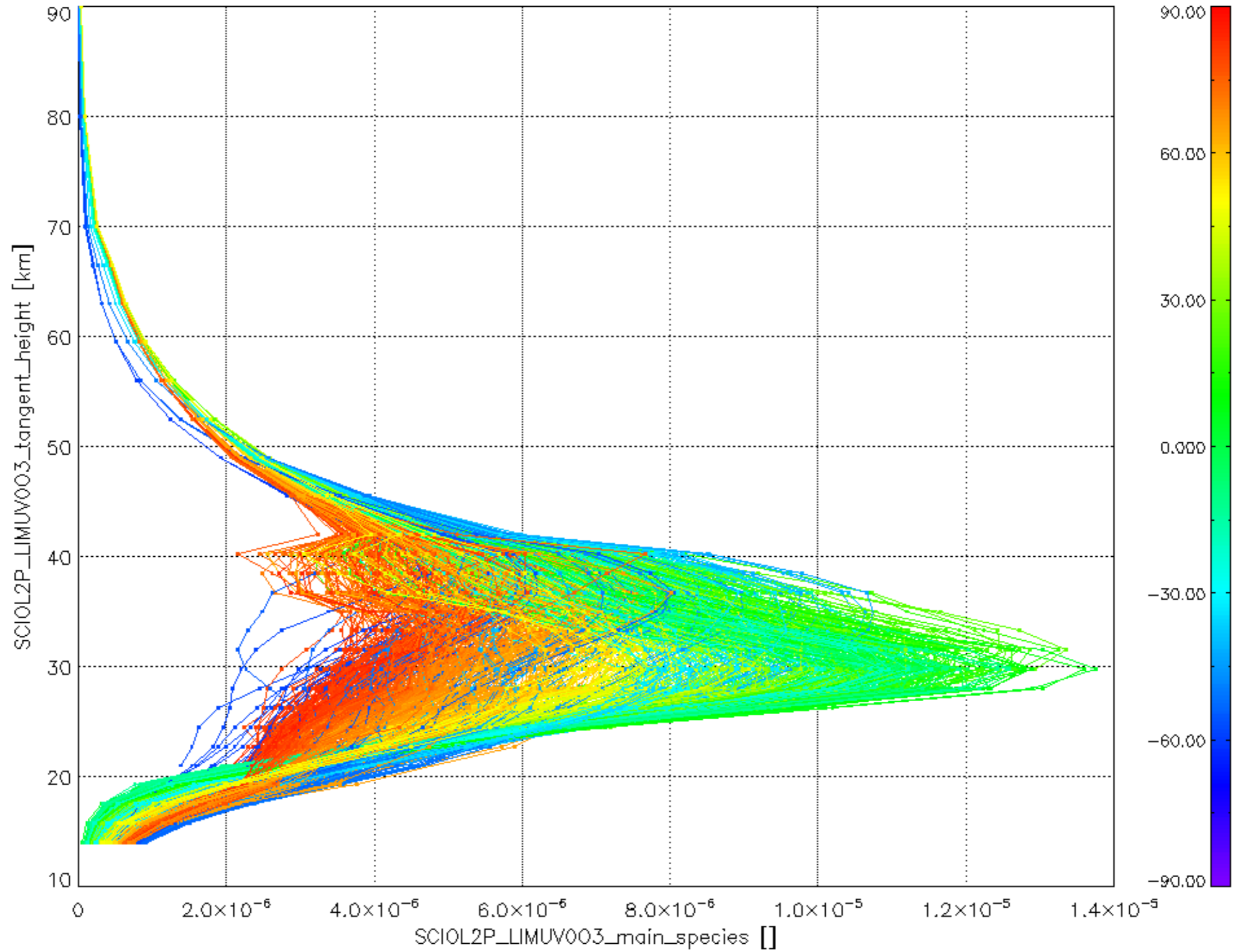
SCIOL2P_NADIR3CO_vcd for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



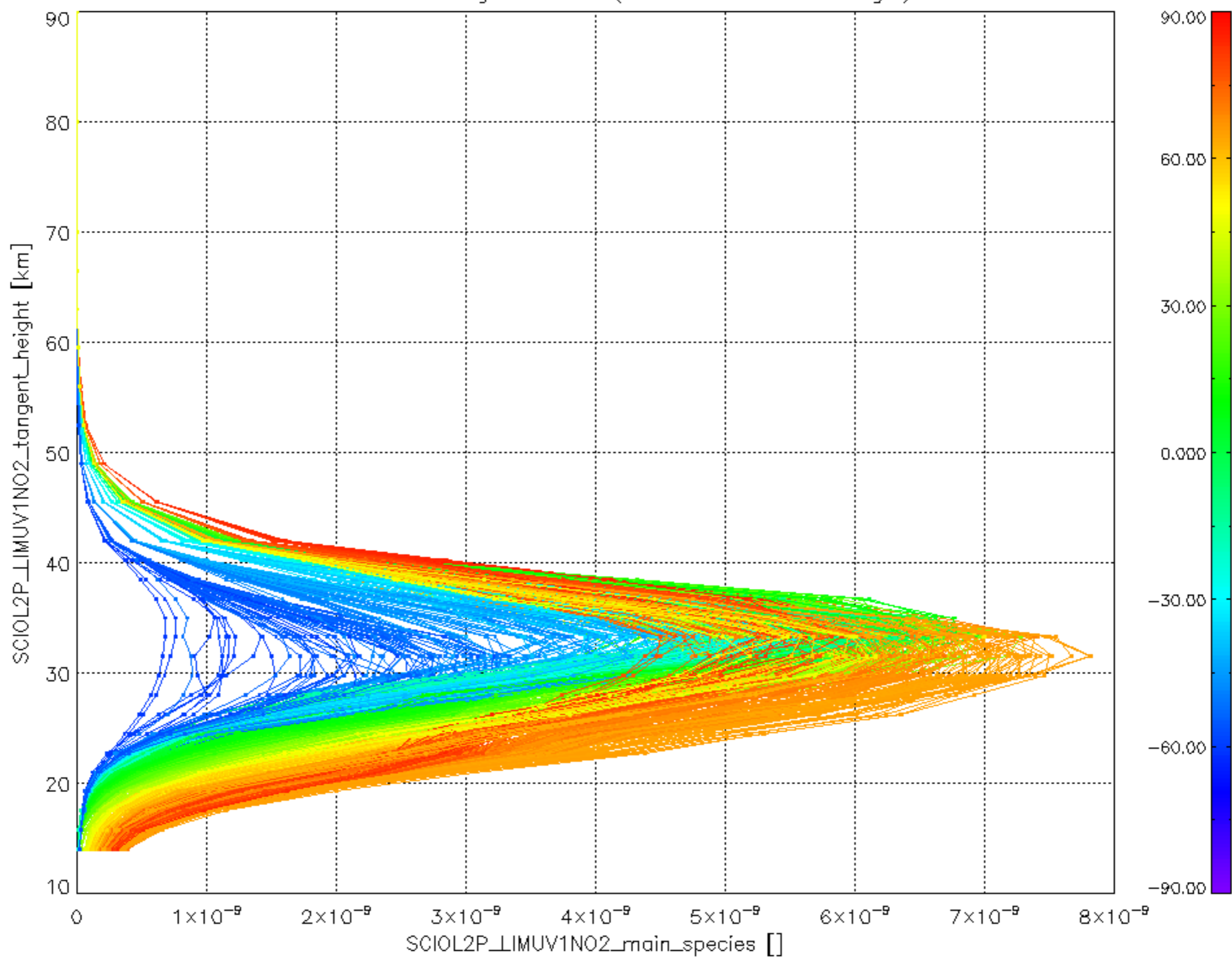
SCIOL2P_NADIR3CO_vcd_err for 16JUL2011 00:00:00 to 17JUL2011 00:00:00



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).

