

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	07OCT2011 11:15:49
Data source version	SCIA-OL/5.02-W
Processing scope for products	24SEP2011 00:00:00 to 25SEP2011 00:00:00
Start time of first product within scope	23SEP2011 23:24:32
Stop time of last product within scope	24SEP2011 23:45:37
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__2PWDPA20110923_232432_000034613107_00016_50030_5129.N1	23SEP2011 23:24:32	24SEP2011 00:22:14	0	GOOD
1	SCI_OL__2PWDPA20110924_010447_000035163107_00017_50031_5131.N1	24SEP2011 01:04:47	24SEP2011 02:03:23	0	GOOD
2	SCI_OL__2PWDPA20110924_024501_000034613107_00018_50032_5128.N1	24SEP2011 02:45:01	24SEP2011 03:42:43	0	GOOD
3	SCI_OL__2PWDPA20110924_042516_000035163107_00019_50033_5132.N1	24SEP2011 04:25:16	24SEP2011 05:23:52	0	GOOD
4	SCI_OL__2PWDPA20110924_060530_000034613107_00020_50034_5133.N1	24SEP2011 06:05:30	24SEP2011 07:03:12	0	GOOD

5	SCI_OL__2PWDP	20110924_074545_000035163107_00021_50035_5136.N1	24SEP2011 07:45:45	24SEP2011 08:44:21	0	GOOD
6	SCI_OL__2PWDP	20110924_092559_000034613107_00022_50036_5134.N1	24SEP2011 09:25:59	24SEP2011 10:23:41	0	GOOD
7	SCI_OL__2PWDP	20110924_110614_000035163107_00023_50037_5135.N1	24SEP2011 11:06:14	24SEP2011 12:04:50	0	GOOD
8	SCI_OL__2PWDP	20110924_124628_000034613107_00024_50038_5137.N1	24SEP2011 12:46:28	24SEP2011 13:44:10	0	GOOD
9	SCI_OL__2PWDP	20110924_142643_000035163107_00025_50039_5138.N1	24SEP2011 14:26:43	24SEP2011 15:25:19	0	GOOD
10	SCI_OL__2PWDP	20110924_160657_000034613107_00026_50040_5139.N1	24SEP2011 16:06:57	24SEP2011 17:04:39	0	GOOD
11	SCI_OL__2PWDP	20110924_174725_000034473107_00027_50041_5156.N1	24SEP2011 17:47:25	24SEP2011 18:44:52	0	GOOD
12	SCI_OL__2PWDP	20110924_192739_000034613107_00028_50042_5157.N1	24SEP2011 19:27:39	24SEP2011 20:25:21	0	GOOD
13	SCI_OL__2PWDP	20110924_210741_000035163107_00029_50043_5158.N1	24SEP2011 21:07:41	24SEP2011 22:06:17	0	GOOD
14	SCI_OL__2PWDP	20110924_224755_000034613107_00030_50044_5159.N1	24SEP2011 22:47:55	24SEP2011 23:45:37	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: 163018

Total number of cloud data DSRs with good quality flag (=0): 163018 (100.0 %)

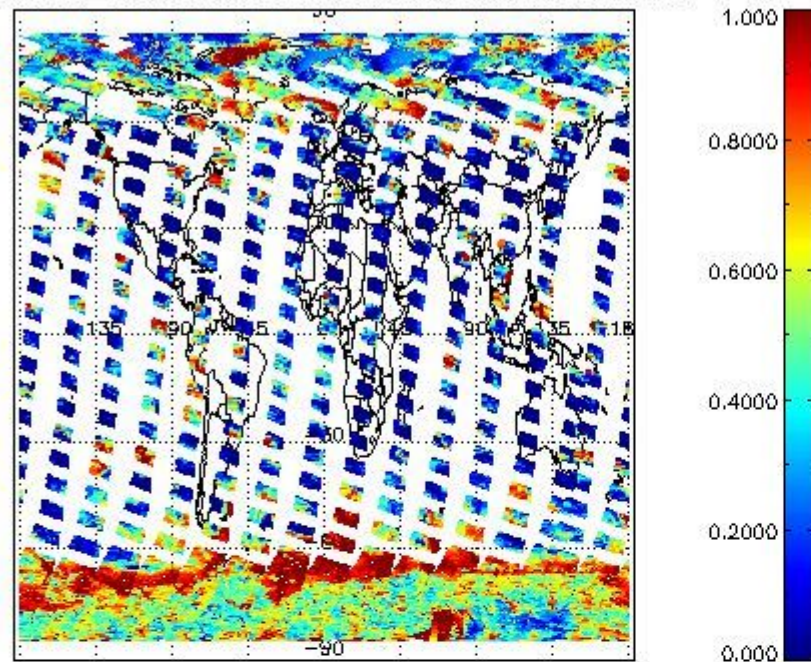
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	163018	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	163018	0.16667	0.12500	0.12500	0.25000	0.058925	s
CL_FRAC	163018	0.43230	0.41027	0.0000	1.0000	0.32894	
CL_FRAC_ERR	163018	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	163018	5.3333	4.0000	4.0000	8.0000	1.8856	
PMD_READ_CL[0]	163018	0.50013	0.0000	0.0000	8.0000	1.2902	-
PMD_READ_CL[1]	163018	1.4036	0.0000	0.0000	8.0000	2.6829	-
CL_TOP_HEIGHT	133298	3.7233	2.1150	0.0000	17.000	4.0275	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	133298	62.479	93.058	0.0000	101.00	42.229	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	163018	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	163018	11001100	11000100	11000000	11100000	3482.4	
AERO_ABSO_IND	163018	0.18584	0.0000	0.0000	6.7319	0.44491	
AERO_IND_DIAG	163018	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	163018	01010110	00000000	00000000	11000000	24455.	

Time and geolocation plots:

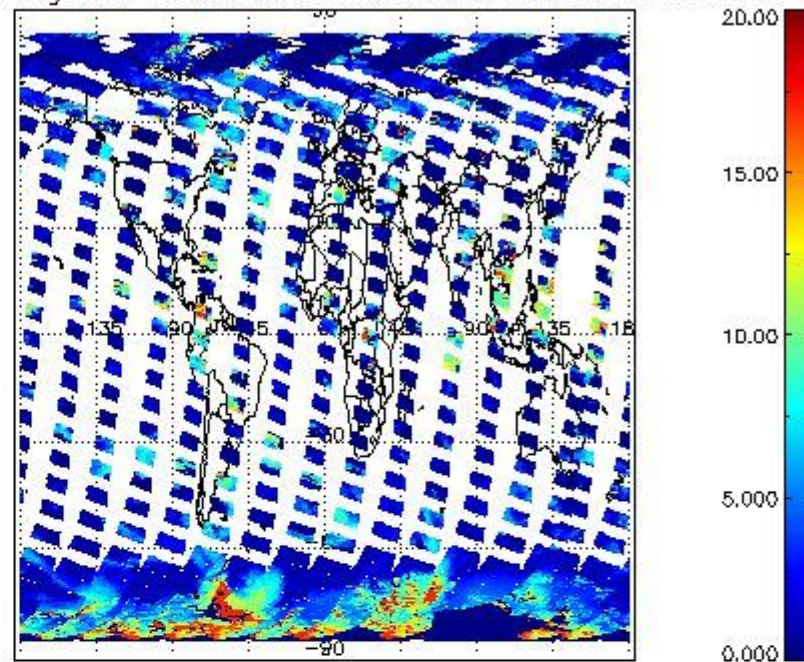
Plots are available for the following parameters:

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

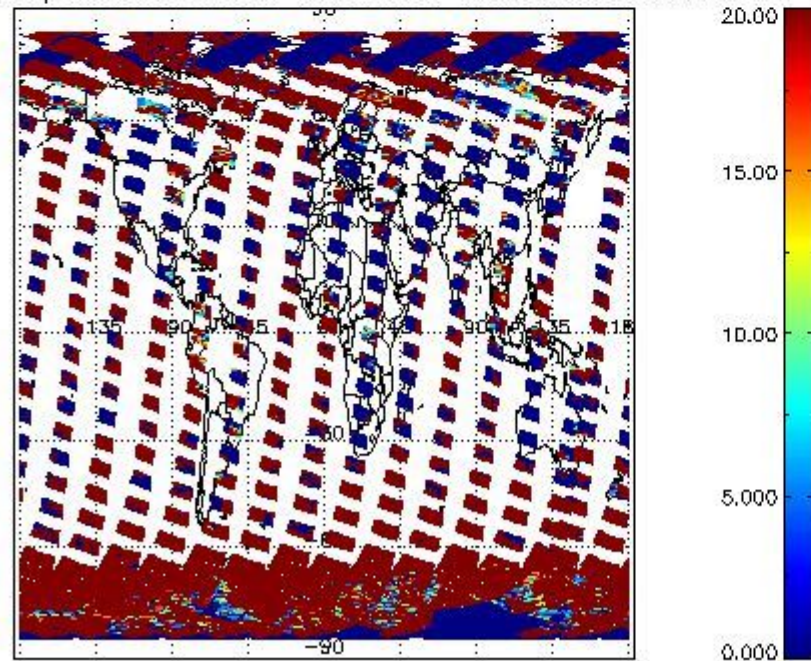
cL_frac for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



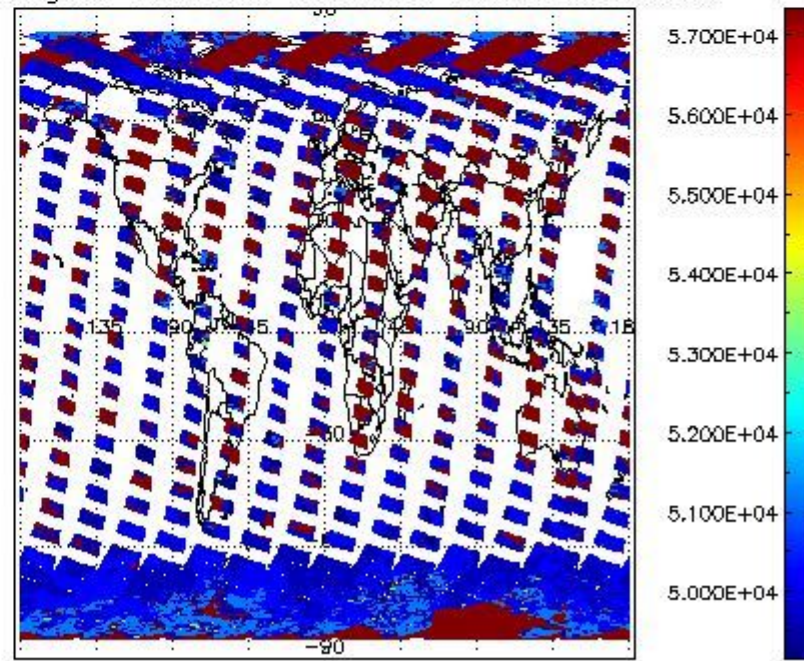
cL_top_height for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



cL_opt_depth for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



cloud_flags for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



2.2.2 Nadir

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

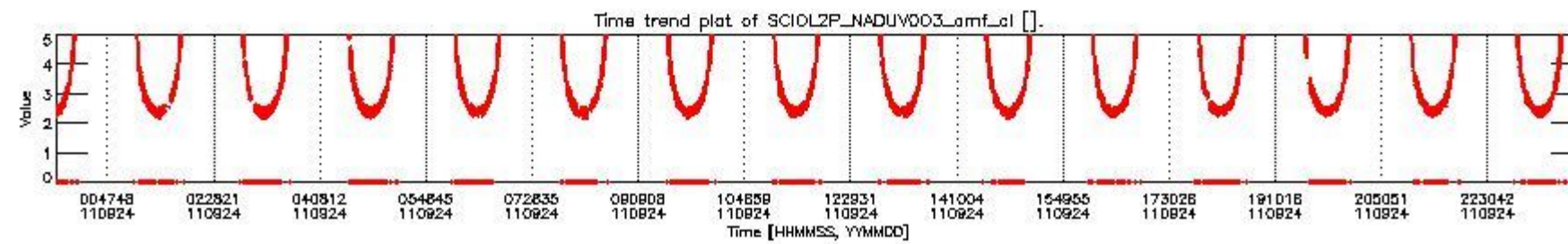
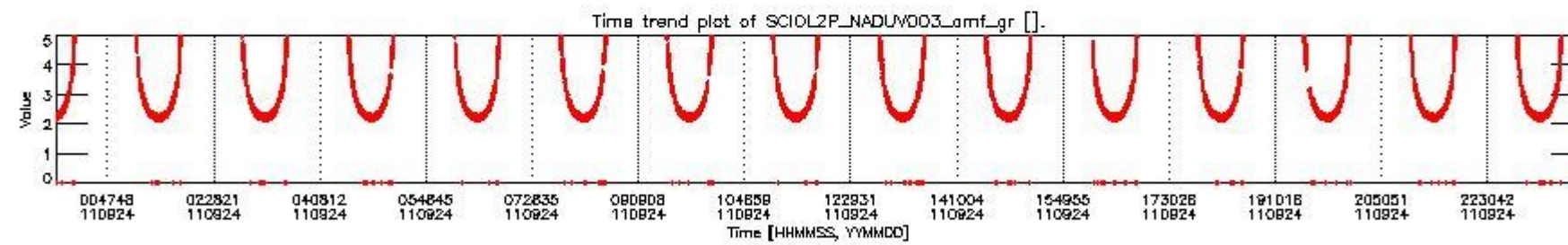
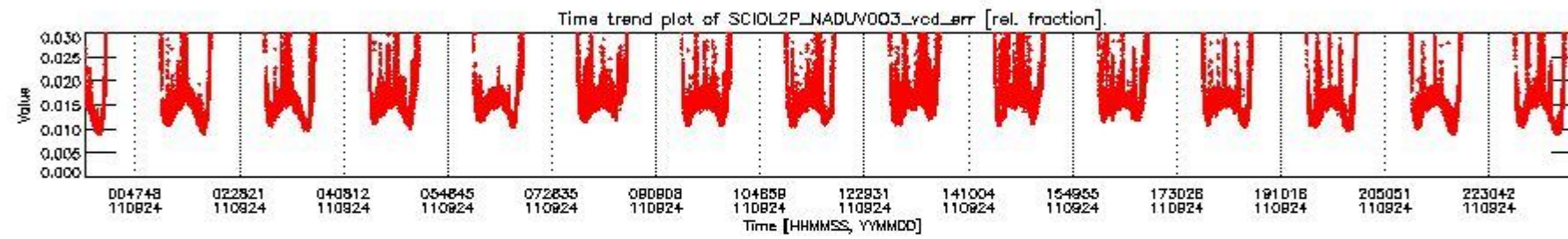
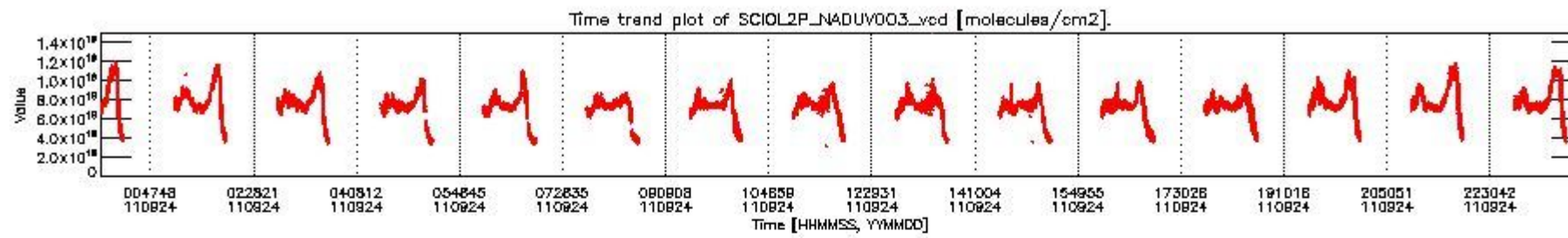
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

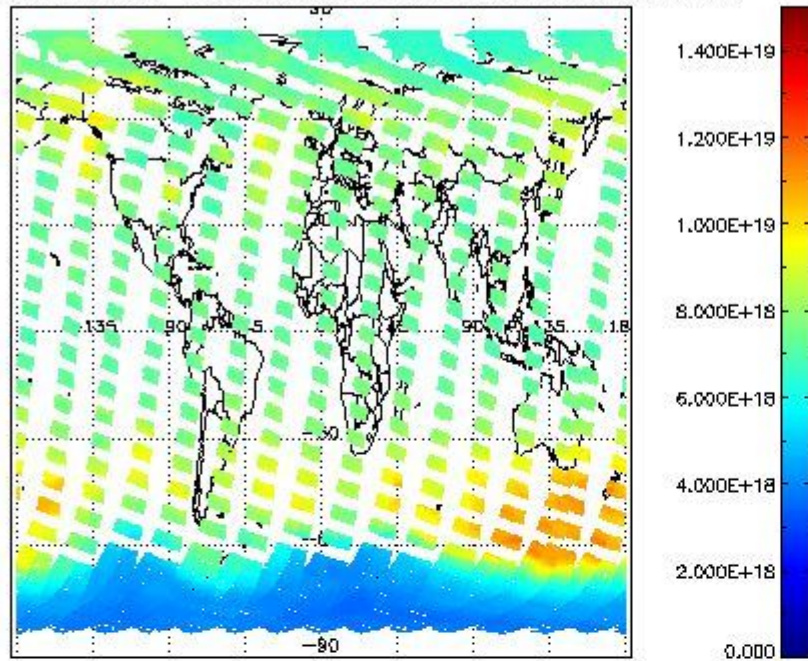
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

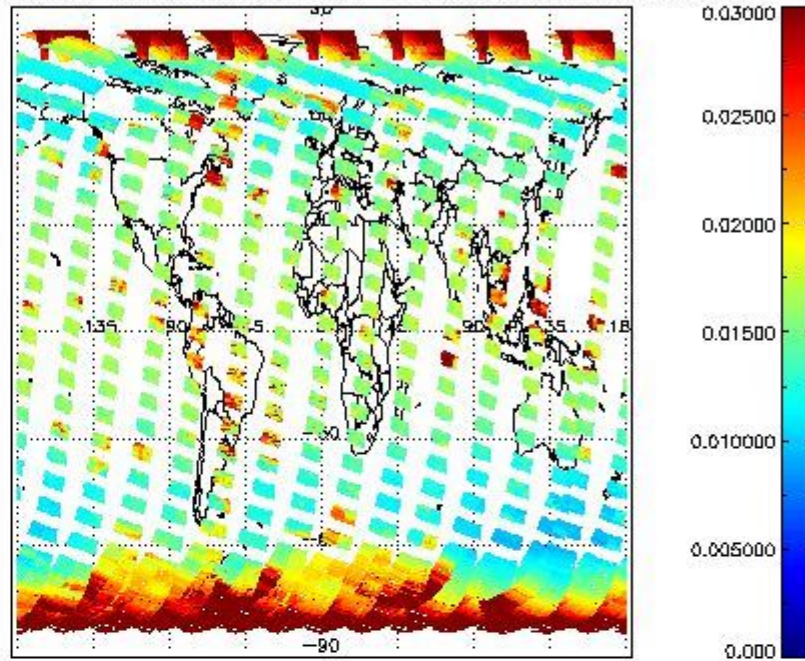
2.2.2.1 O3 (UV0)



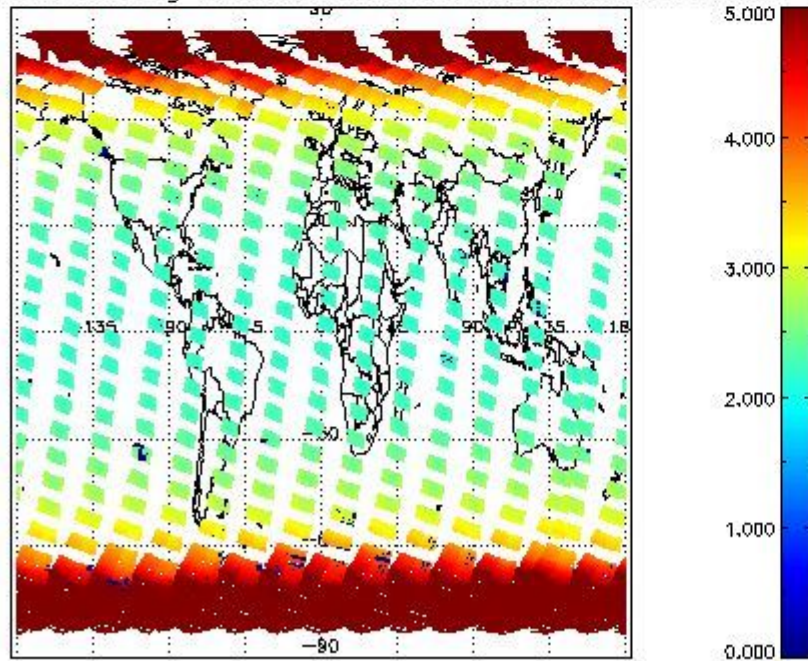
SCIOL2P_NADUV003_vcd for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



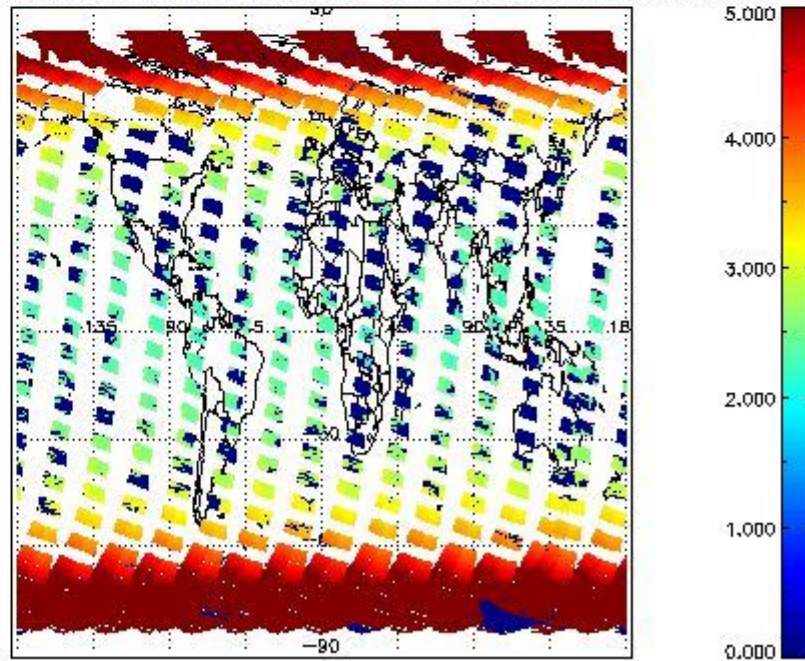
SCIOL2P_NADUV003_vcd_err for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



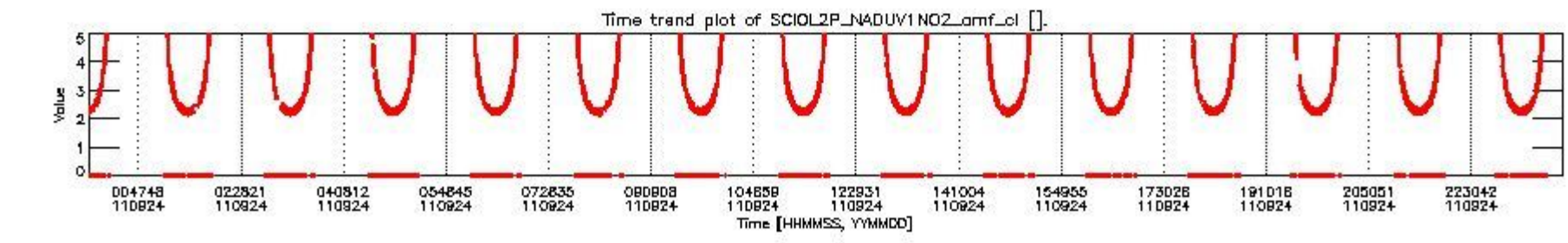
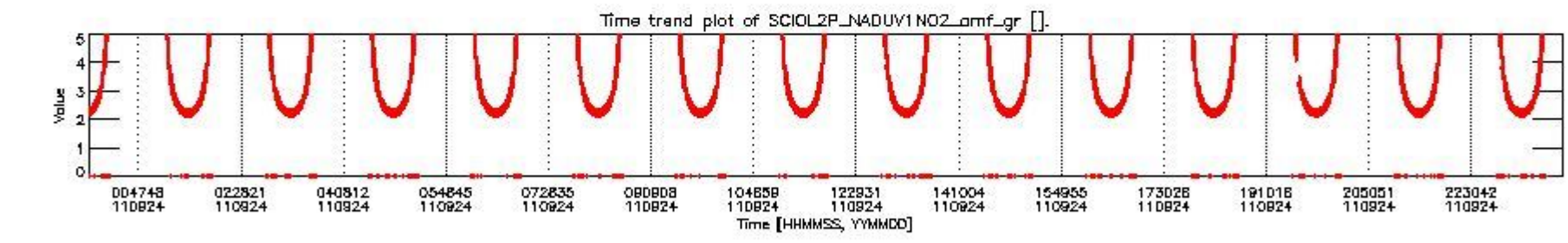
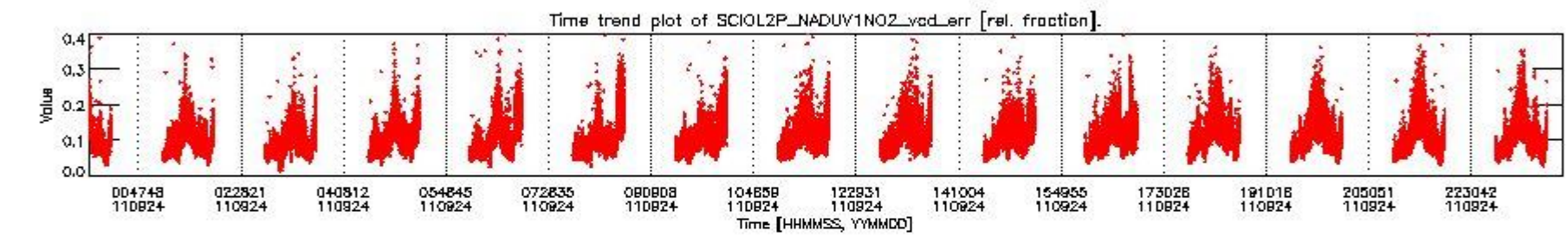
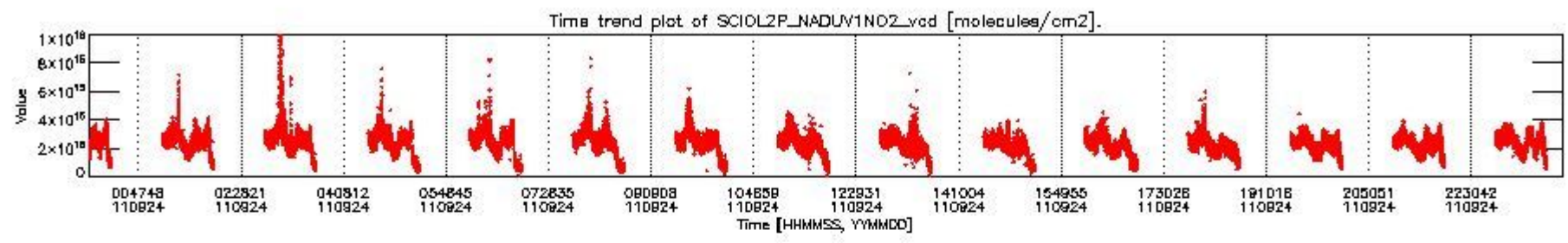
SCIOL2P_NADUV003_amf_gr for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



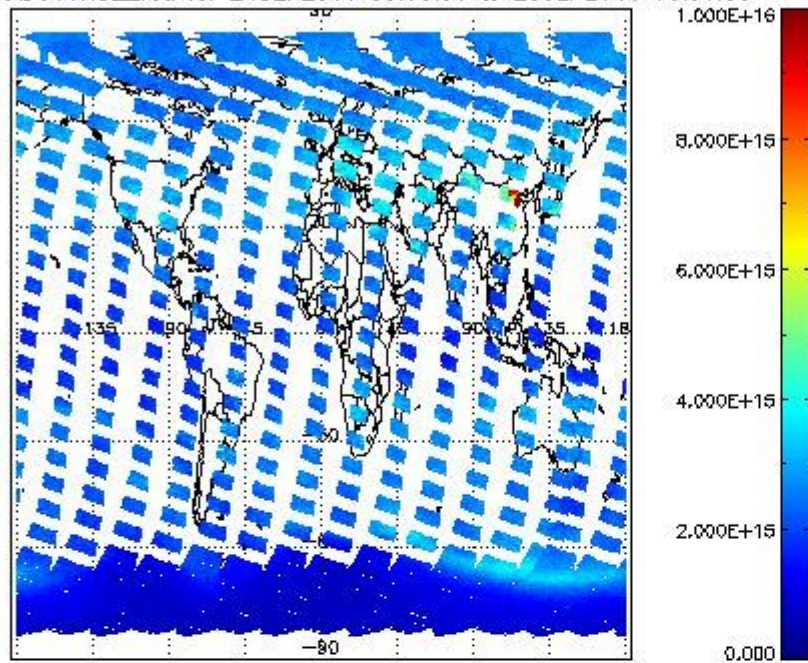
SCIOL2P_NADUV003_amf_cl for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



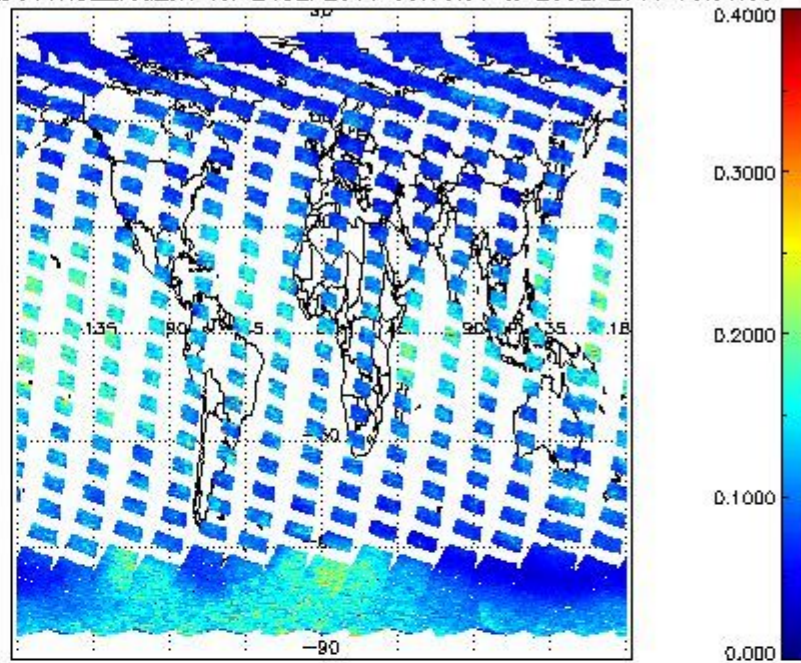
2.2.2.2 NO2 (UV1)



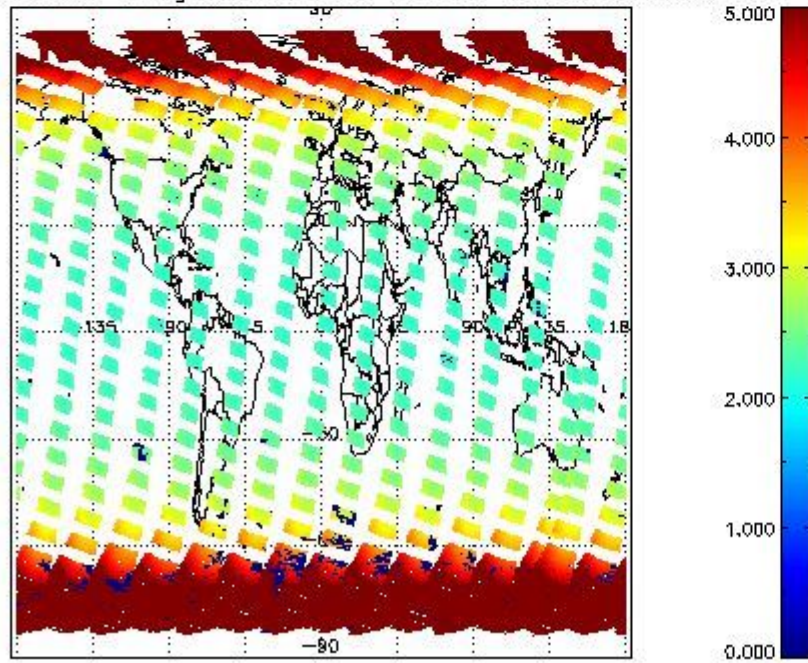
SCIOL2P_NADUV1N02_vcd for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



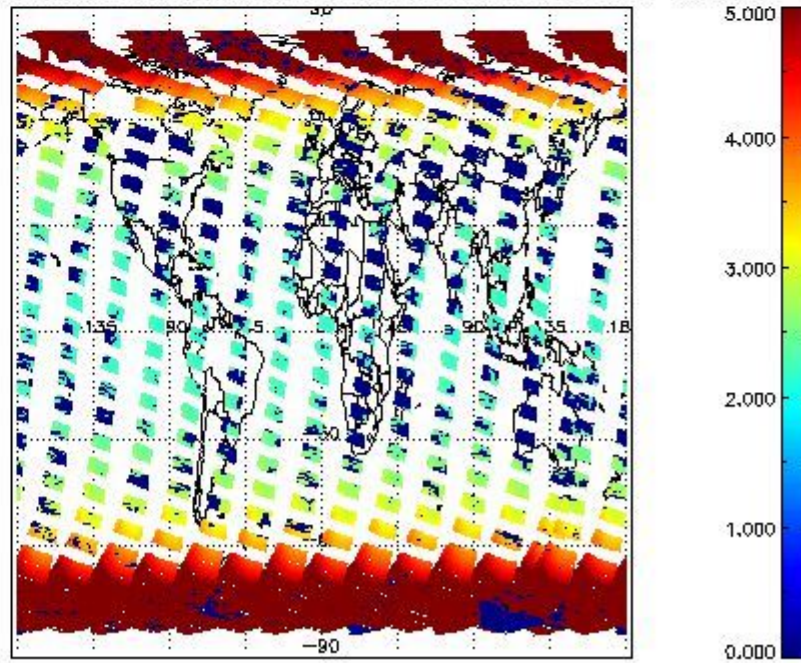
SCIOL2P_NADUV1N02_vcd_err for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



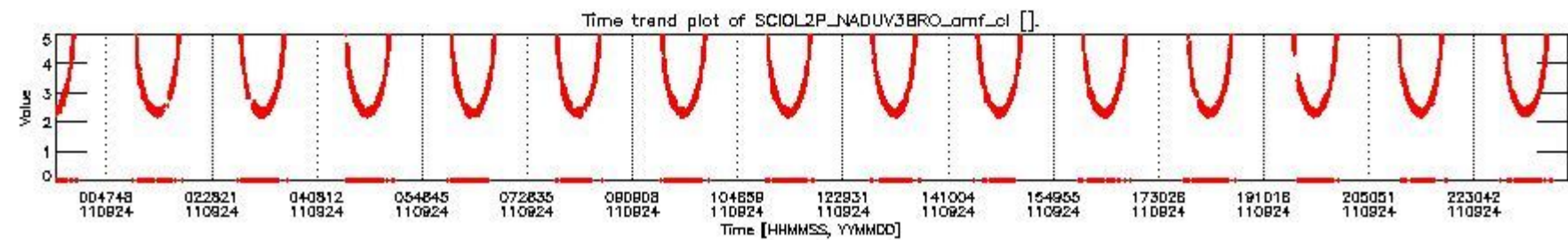
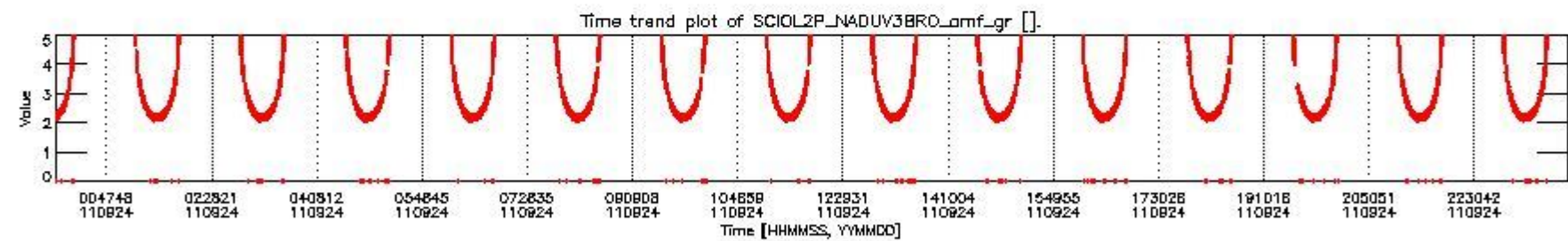
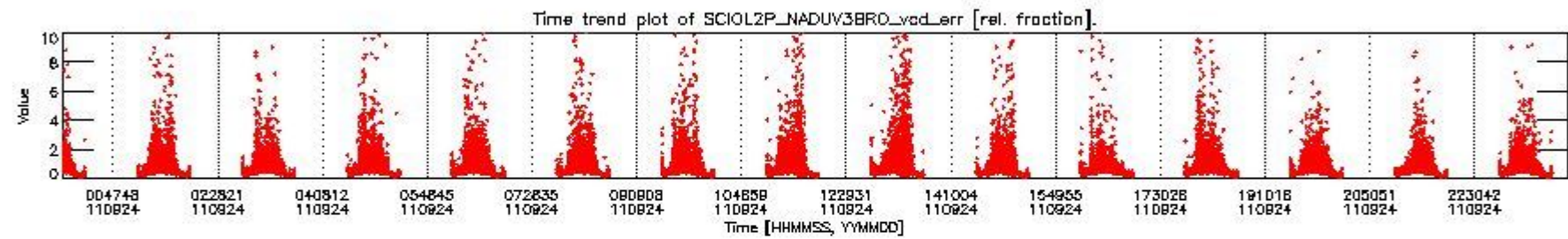
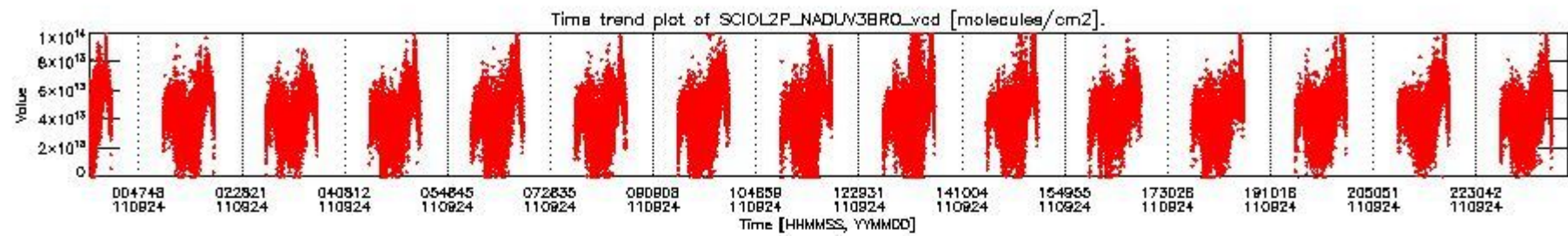
SCIOL2P_NADUV1N02_amf_gr for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



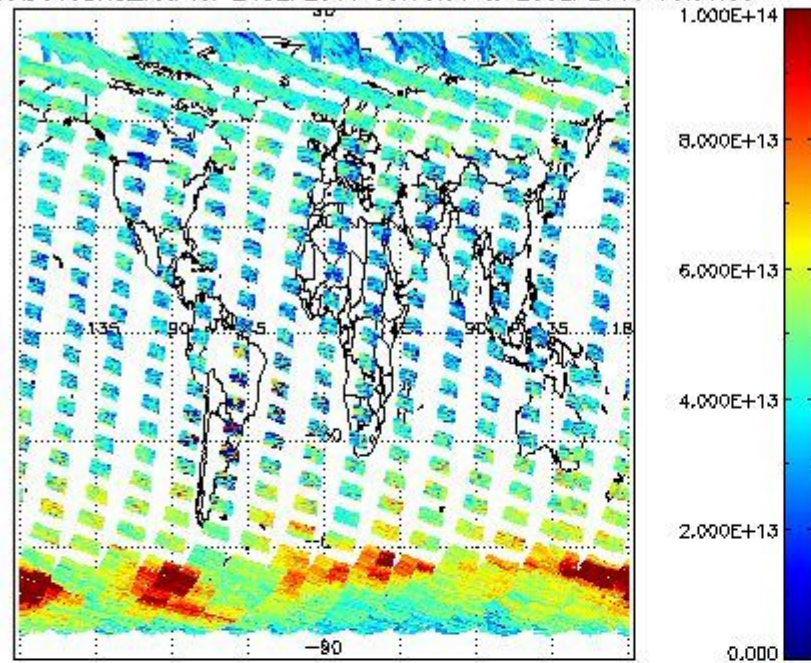
SCIOL2P_NADUV1N02_amf_cl for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



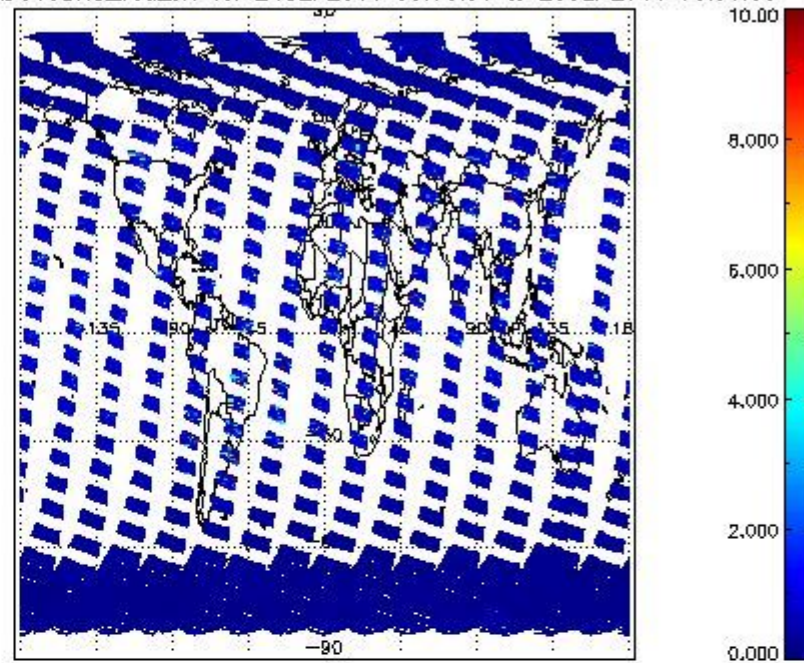
2.2.2.3 Bro (UV3)



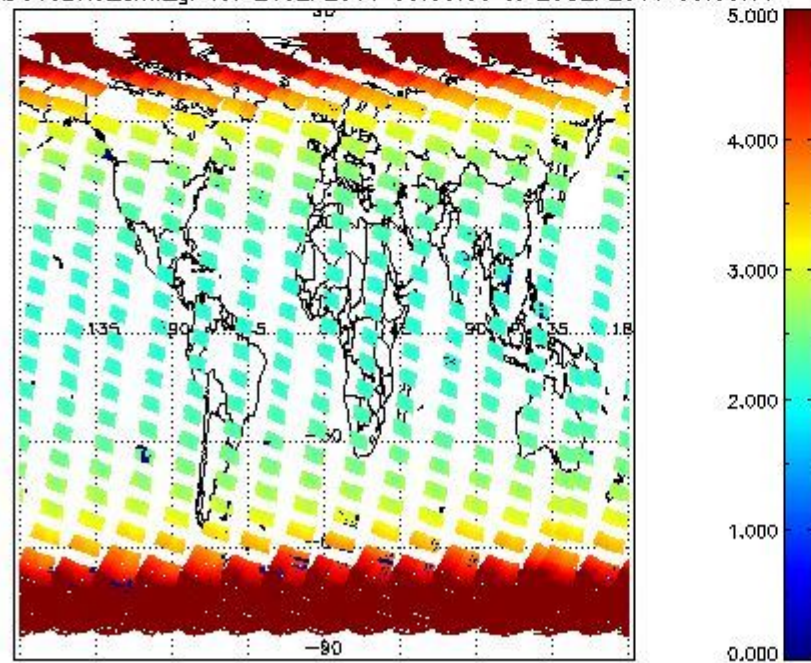
SCIOL2P_NADUV3BRO_vcd for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



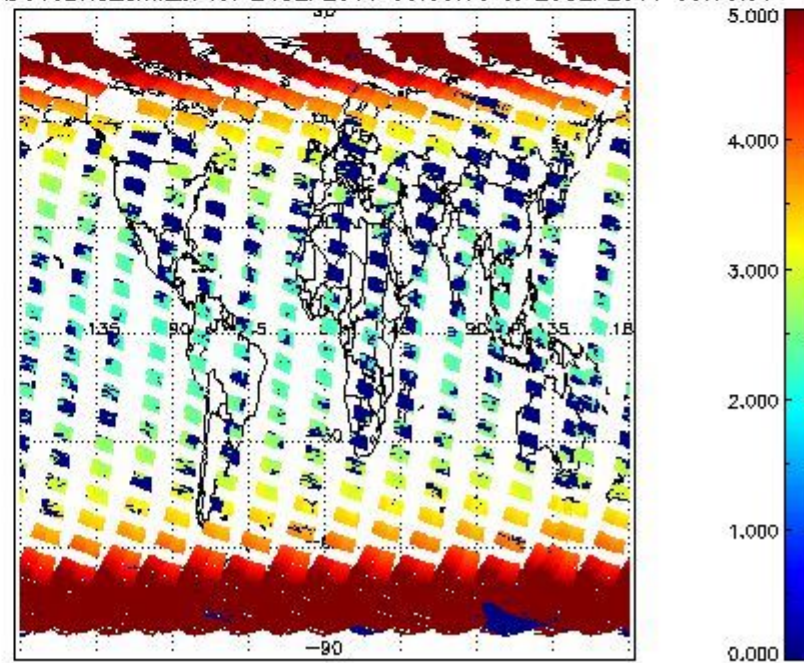
SCIOL2P_NADUV3BRO_vcd_err for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



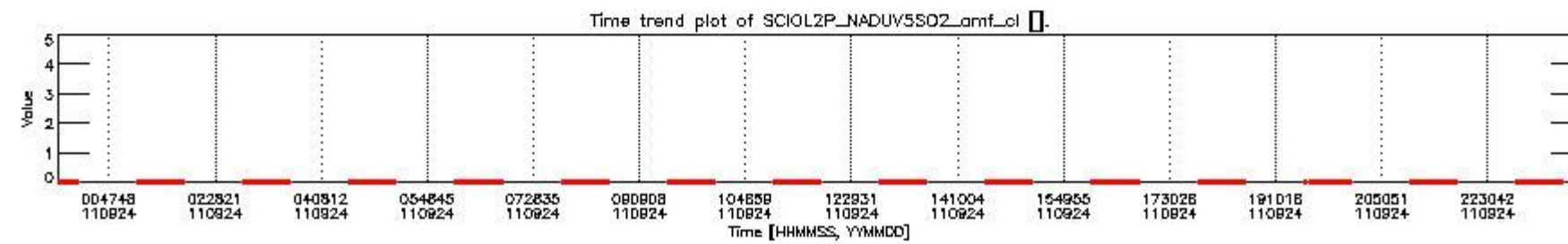
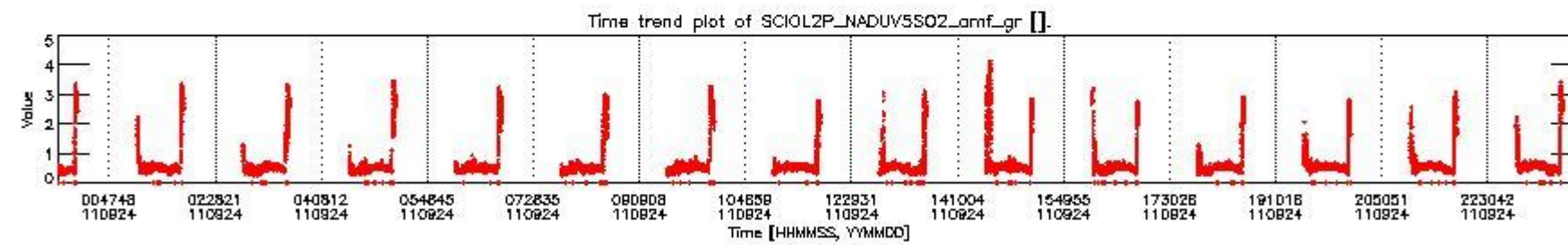
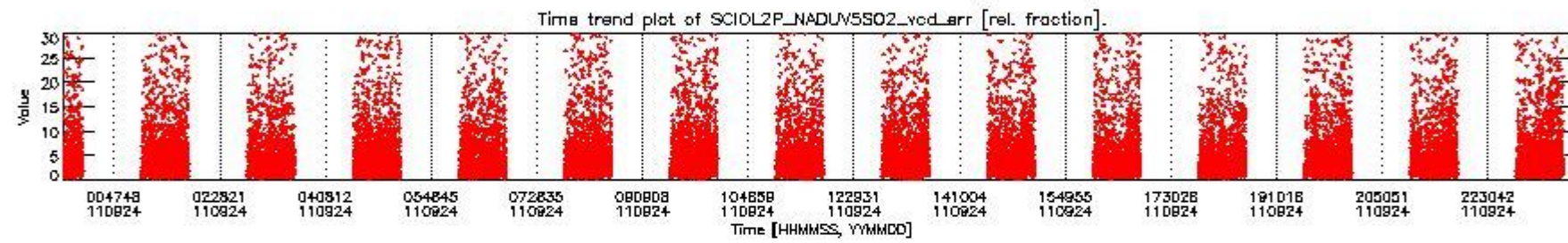
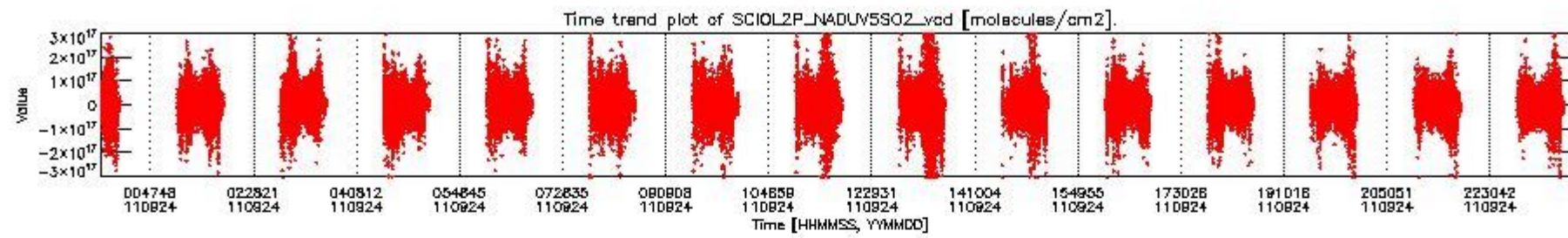
SCIOL2P_NADUV3BRO_amf_gr for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



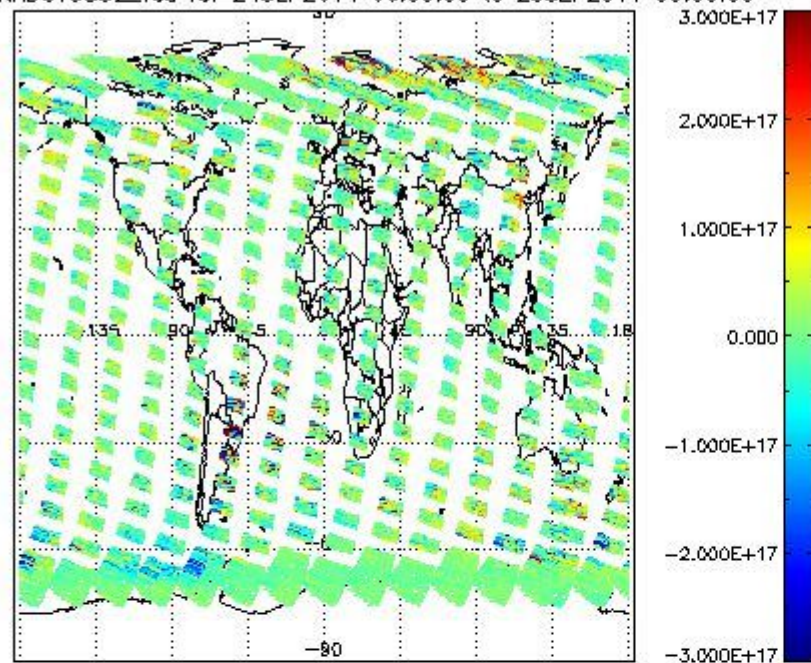
SCIOL2P_NADUV3BRO_amf_cl for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



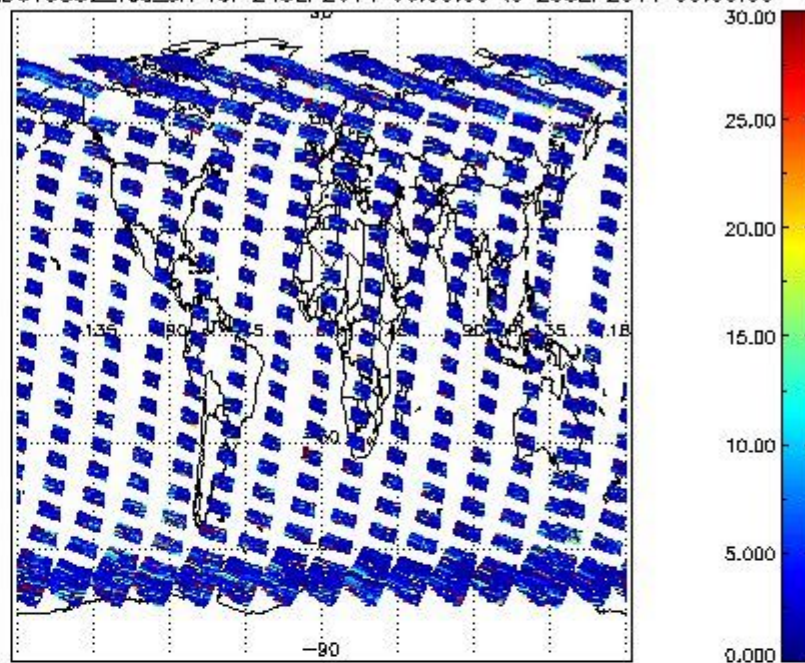
2.2.2.4 SO2 (UV5)



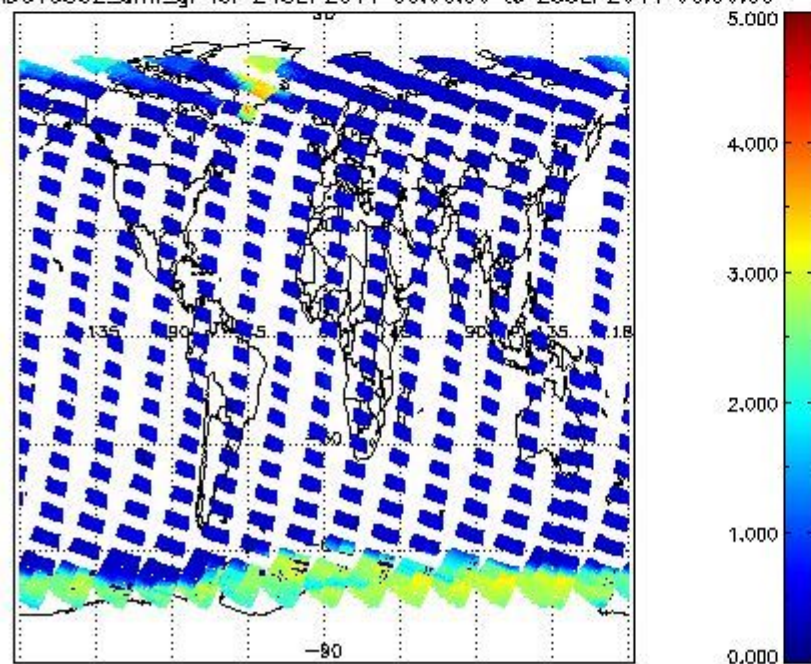
SCIOL2P_NADUV5S02_vcd for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



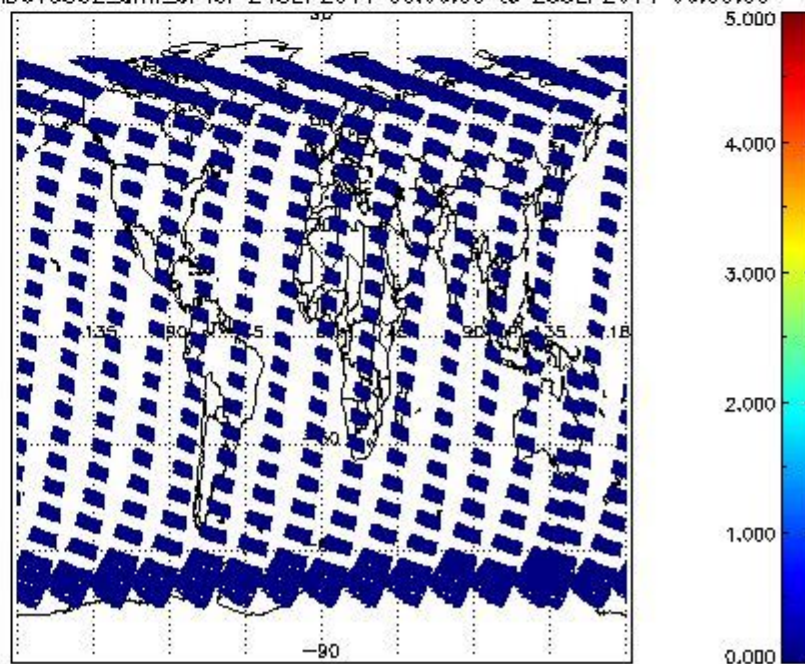
SCIOL2P_NADUV5S02_vcd_err for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



SCIOL2P_NADUV5S02_amf_gr for 24SEP2011 00:00:00 to 25SEP2011 00:00:00

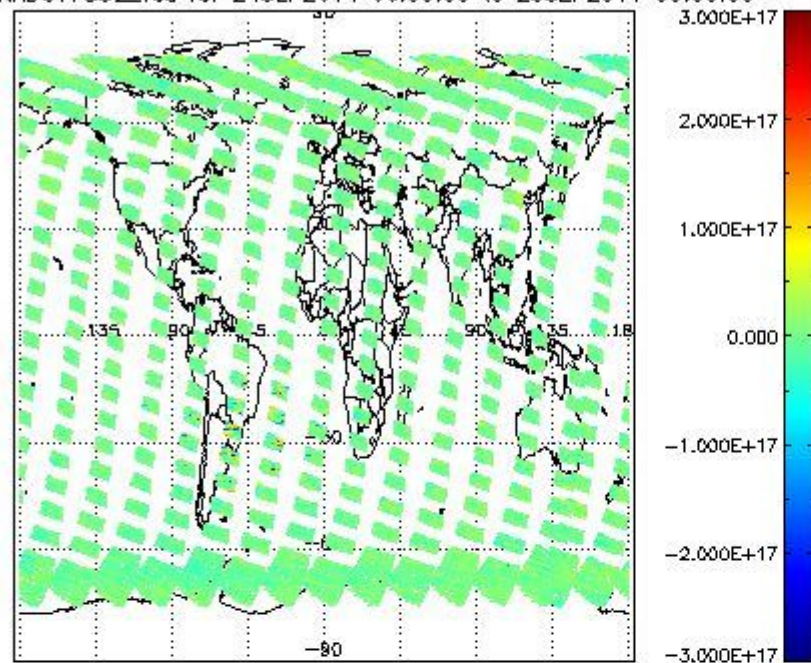


SCIOL2P_NADUV5S02_amf_cl for 24SEP2011 00:00:00 to 25SEP2011 00:00:00

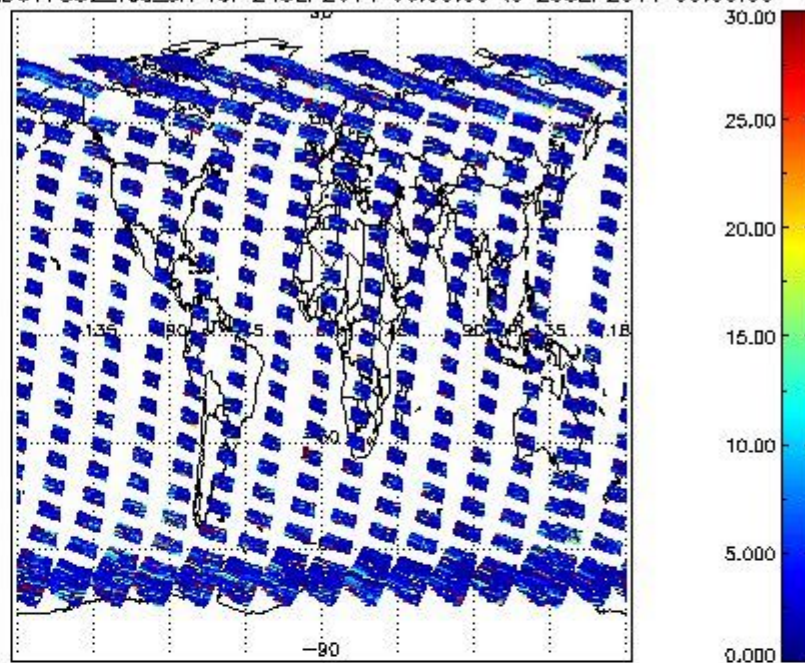


2.2.2.5 SO2 (UV7)

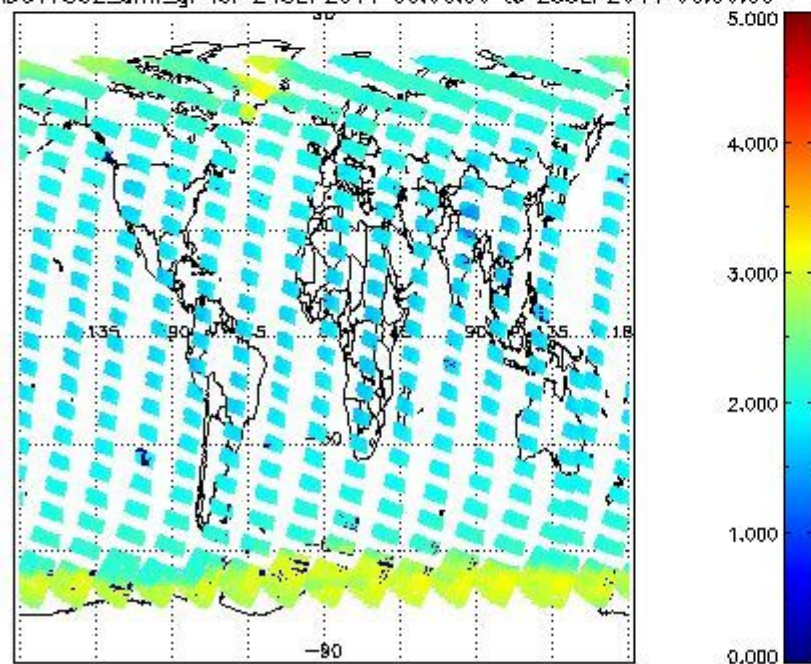
SCIOL2P_NADUV7S02_vcd for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



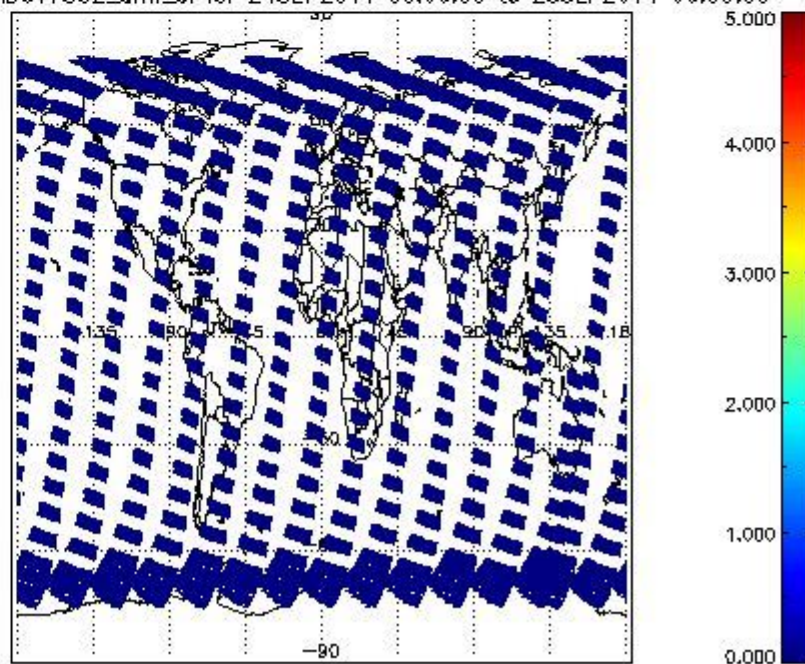
SCIOL2P_NADUV7S02_vcd_err for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



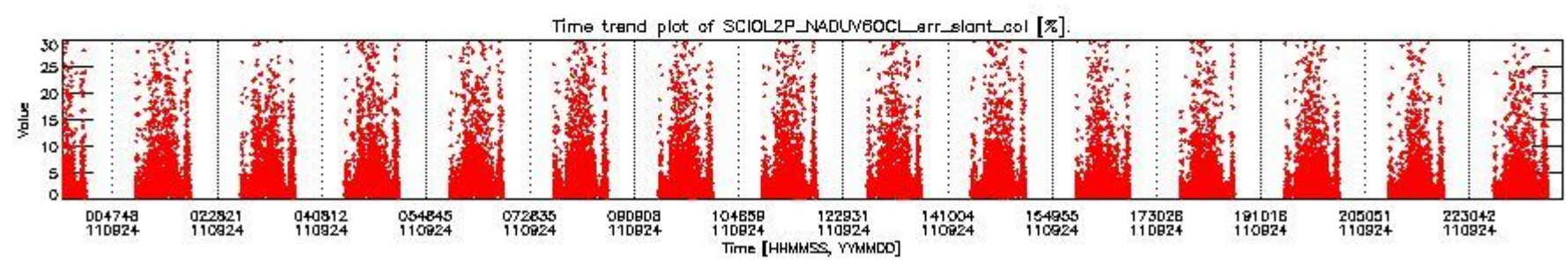
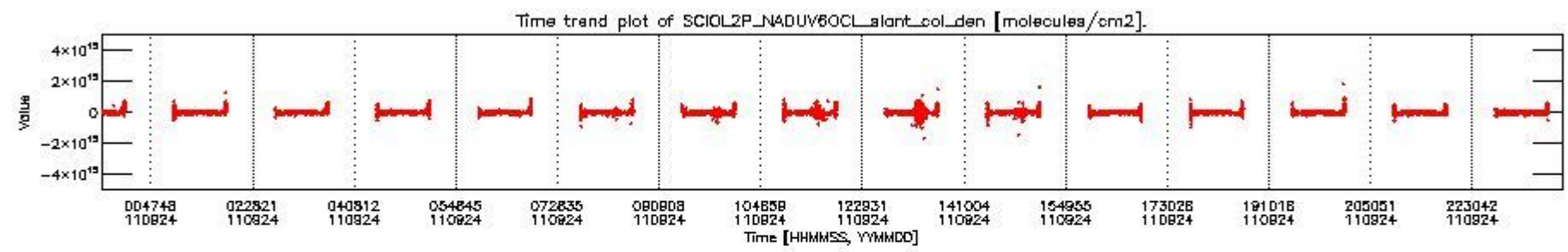
SCIOL2P_NADUV7S02_amf_gr for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



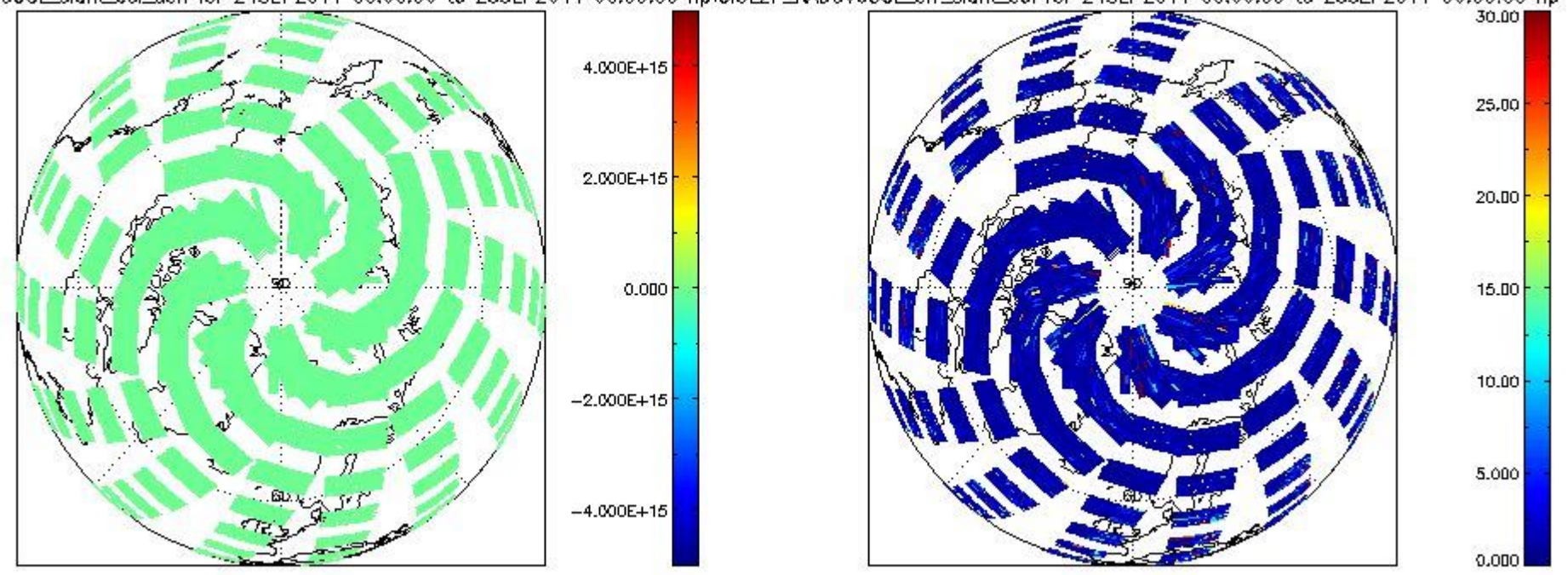
SCIOL2P_NADUV7S02_amf_cl for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



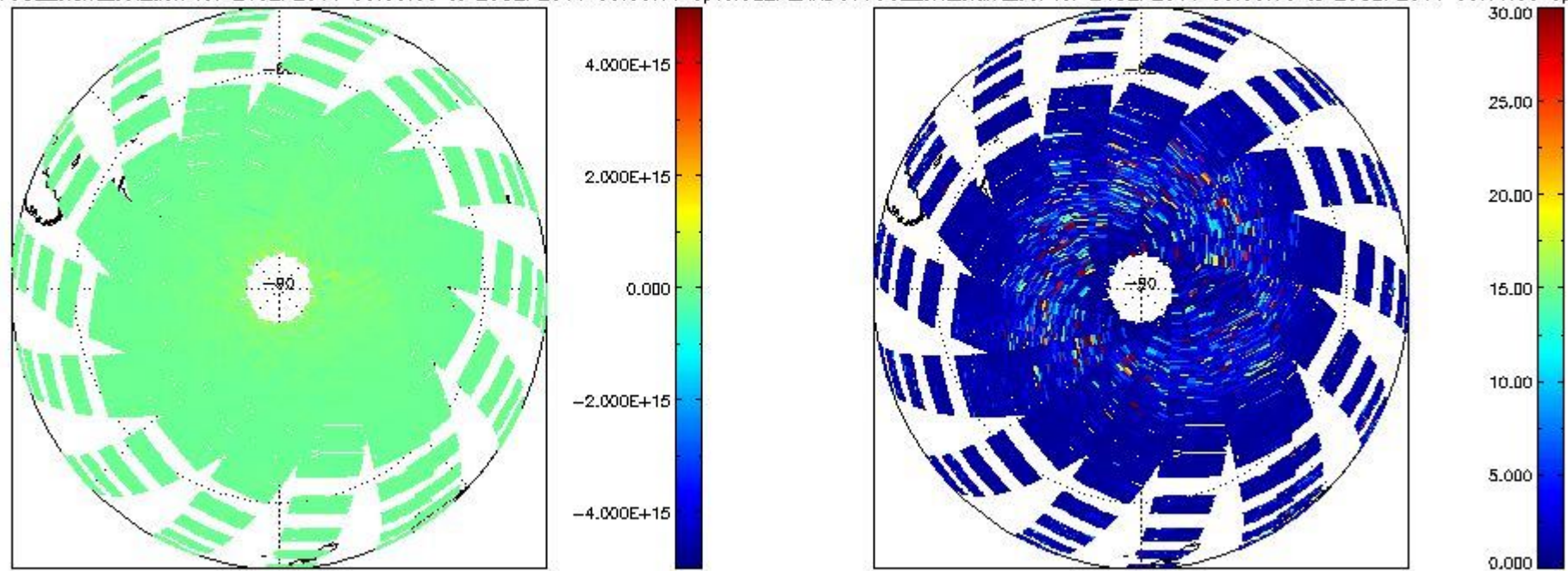
2.2.2.6 OCIO (UV6)



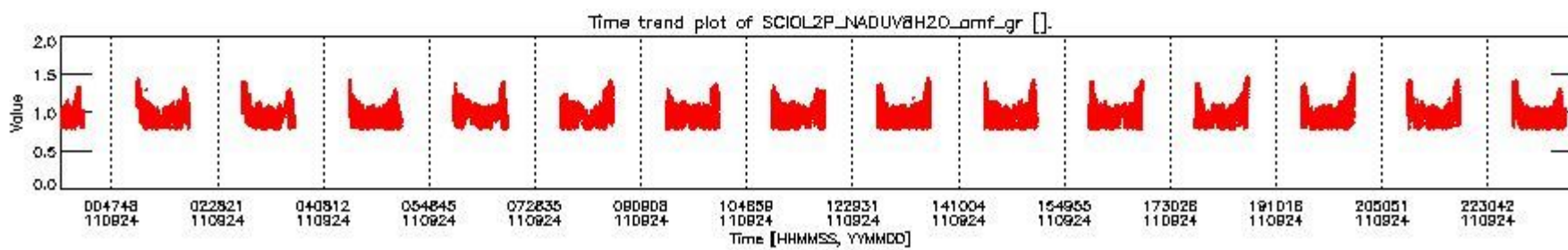
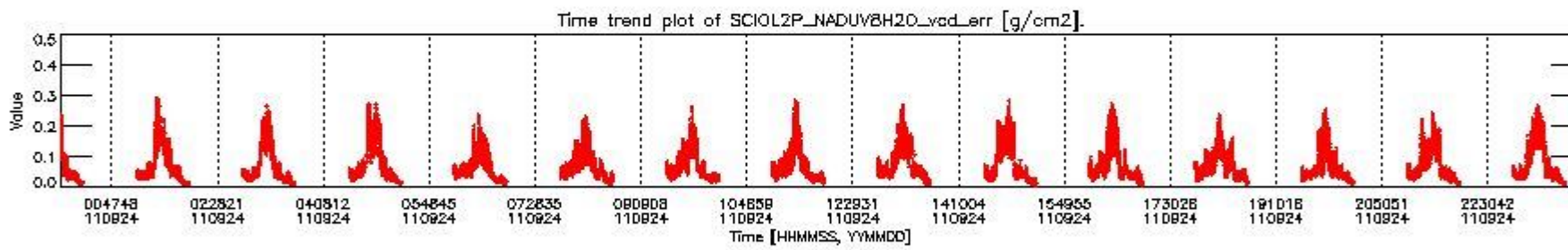
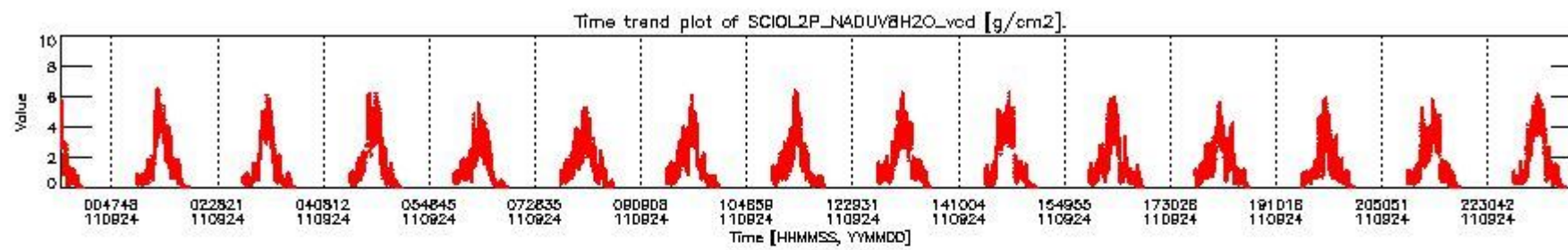
CIOL2P_NADUV60CLslant_col_den for 24SEP2011 00:00:00 to 25SEP2011 00:00:00 np; CIOL2P_NADUV60CLerr_slant_col for 24SEP2011 00:00:00 to 25SEP2011 00:00:00 np



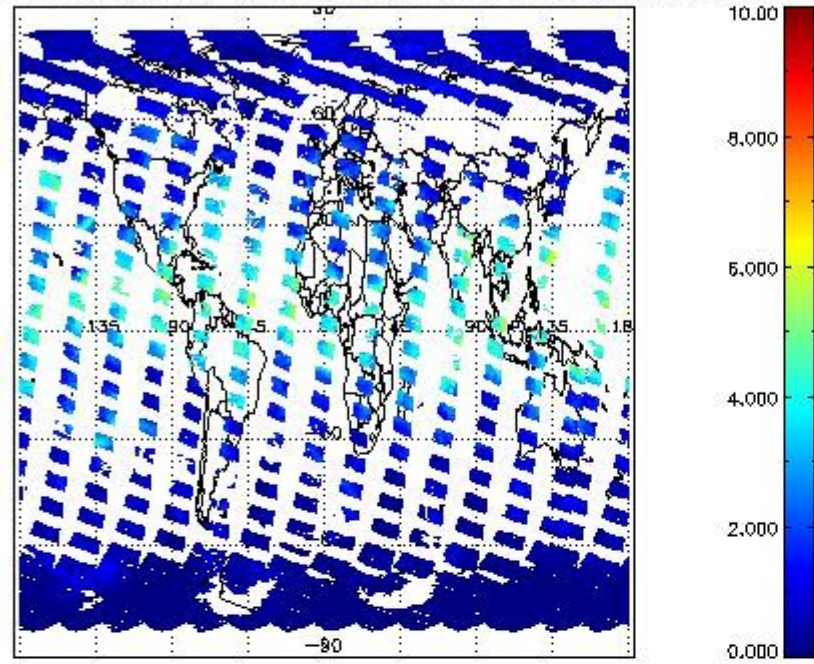
CIOL2P_NADUV60CL_slant_col_den for 24SEP2011 00:00:00 to 25SEP2011 00:00:00 sp; CIOL2P_NADUV60CL_err_slant_col for 24SEP2011 00:00:00 to 25SEP2011 00:00:00 sp



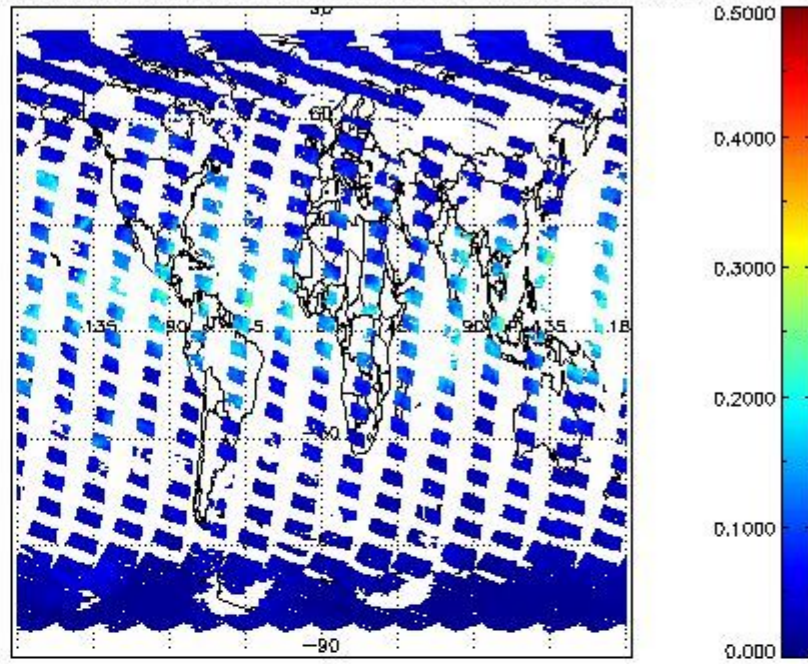
2.2.2.7 H2O (UV8)



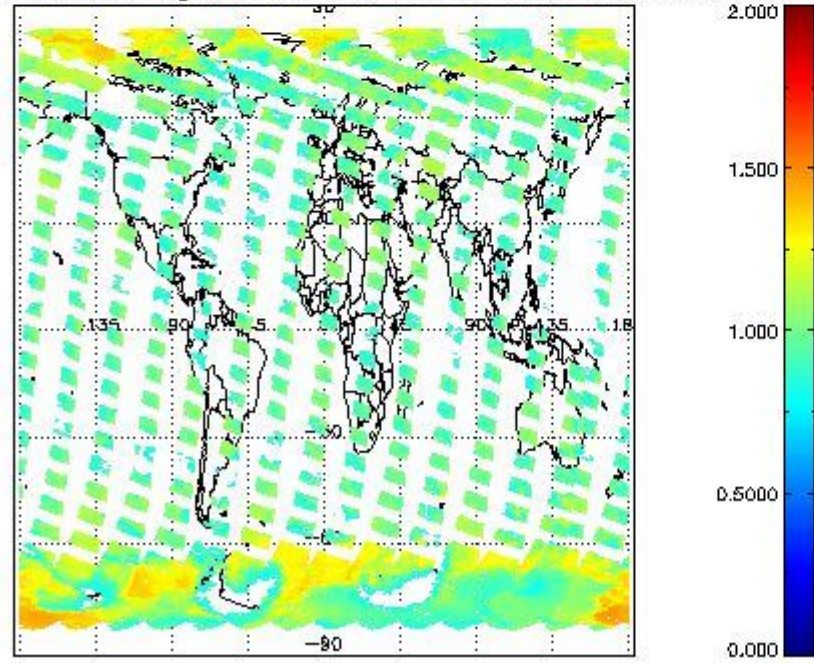
SCIOL2P_NADUV8H2O_vcd for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



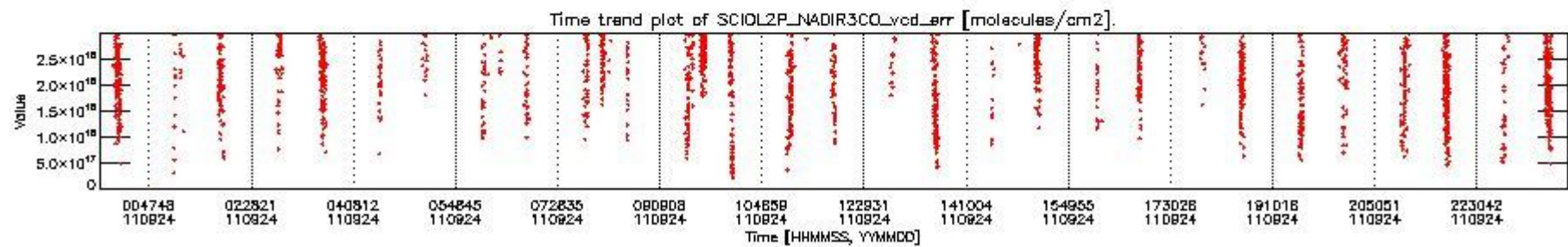
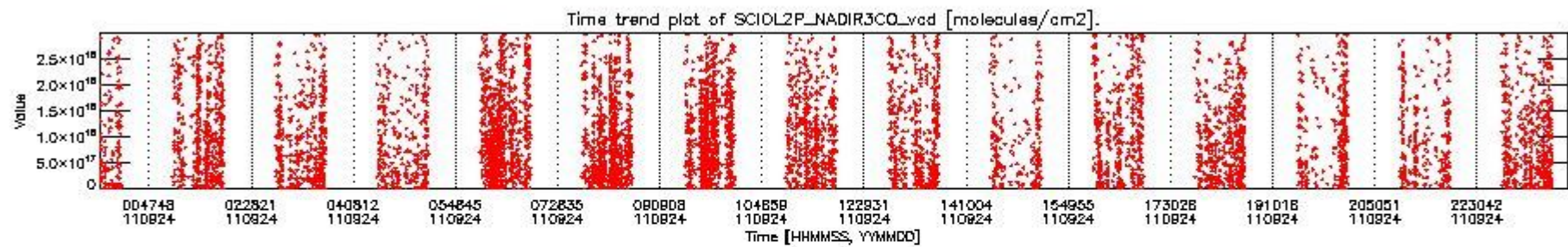
SCIOL2P_NADUV8H2O_vcd_err for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



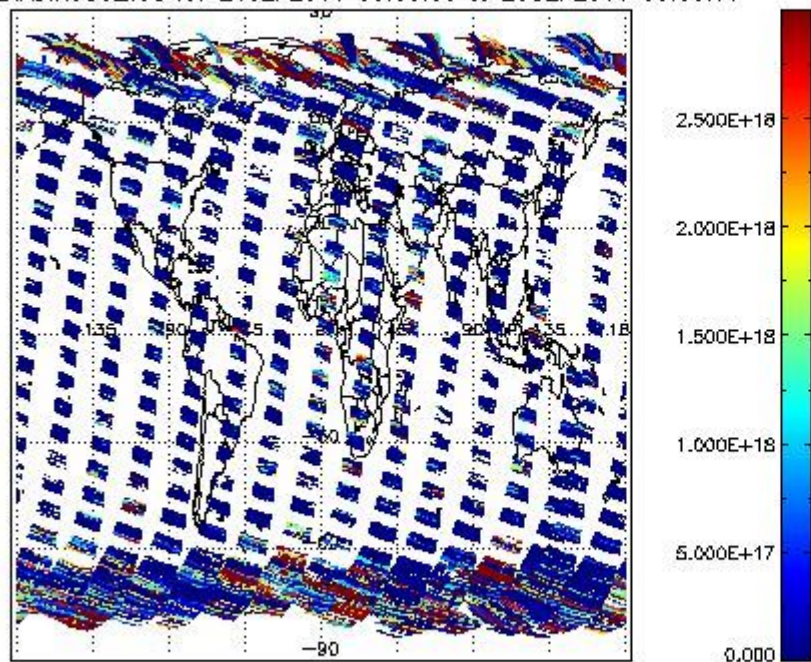
SCIOL2P_NADUV8H2O_arnf_gr for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



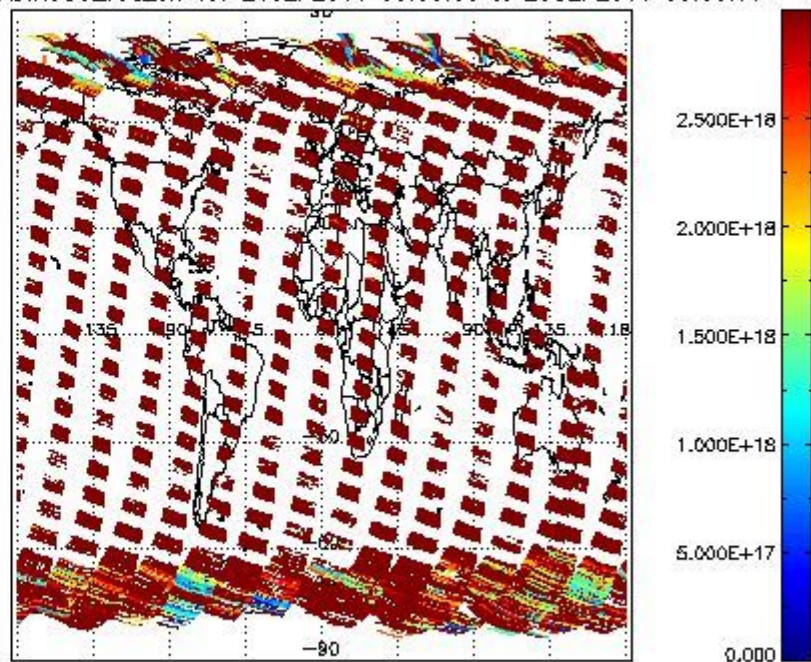
2.2.2.8 CO (IR3)



SCIOL2P_NADIR3CO_vcd for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



SCIOL2P_NADIR3CO_vcd_err for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



2.2.3 Limb

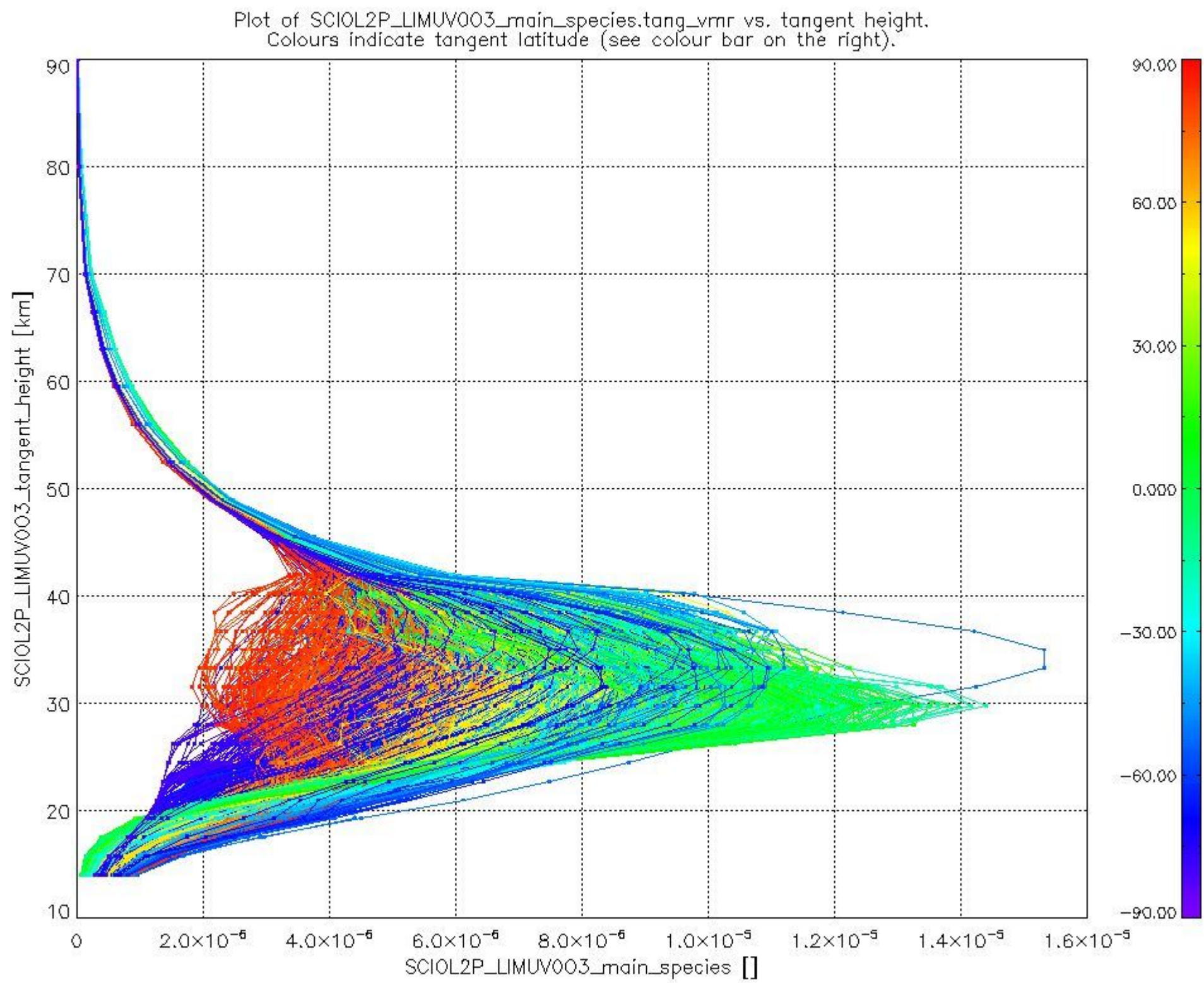
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_LIMUV003_main_species
1	SCIOL2P_LIMUV1NO2_main_species
2	SCIOL2P_LIMUV3BRO_main_species

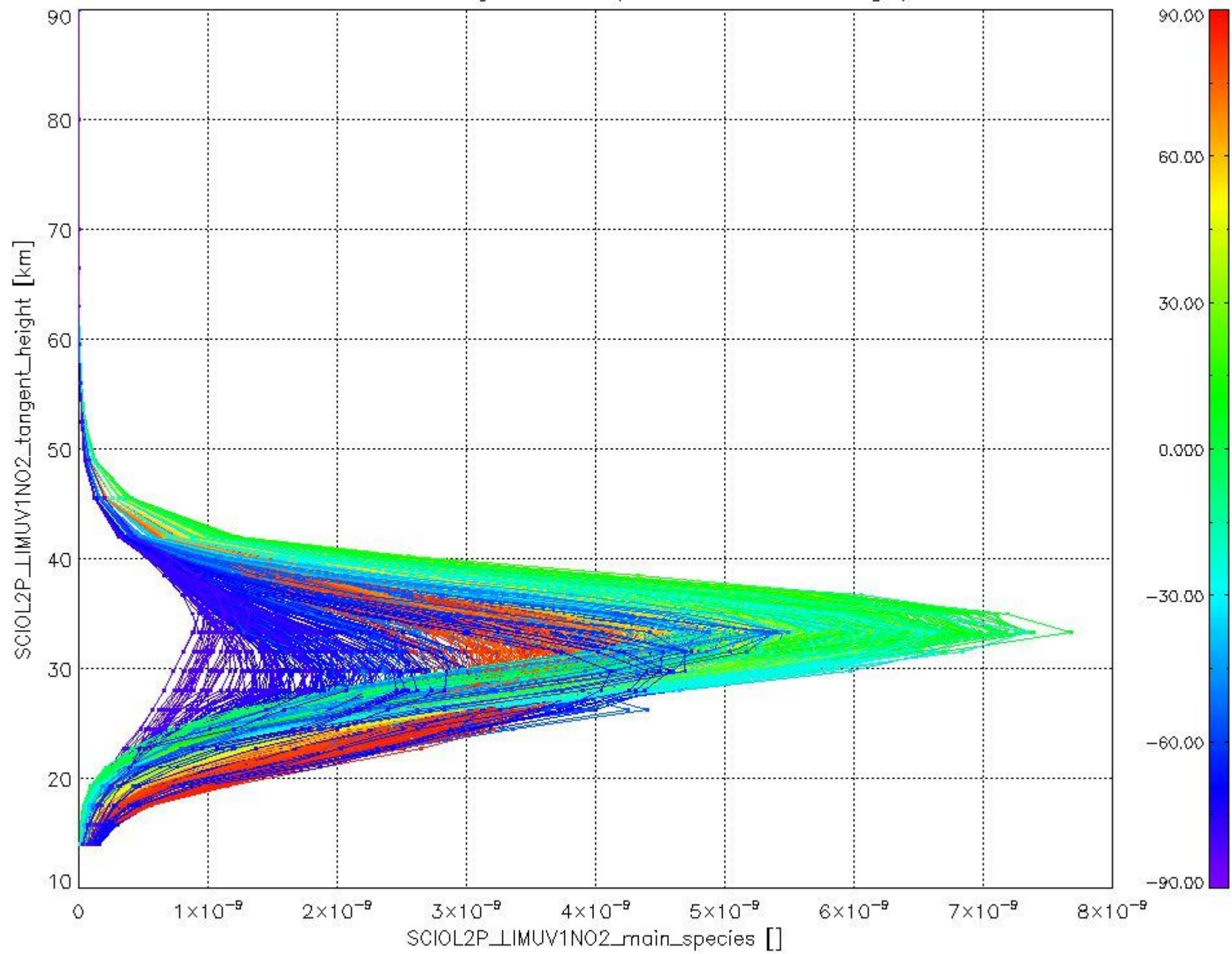
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



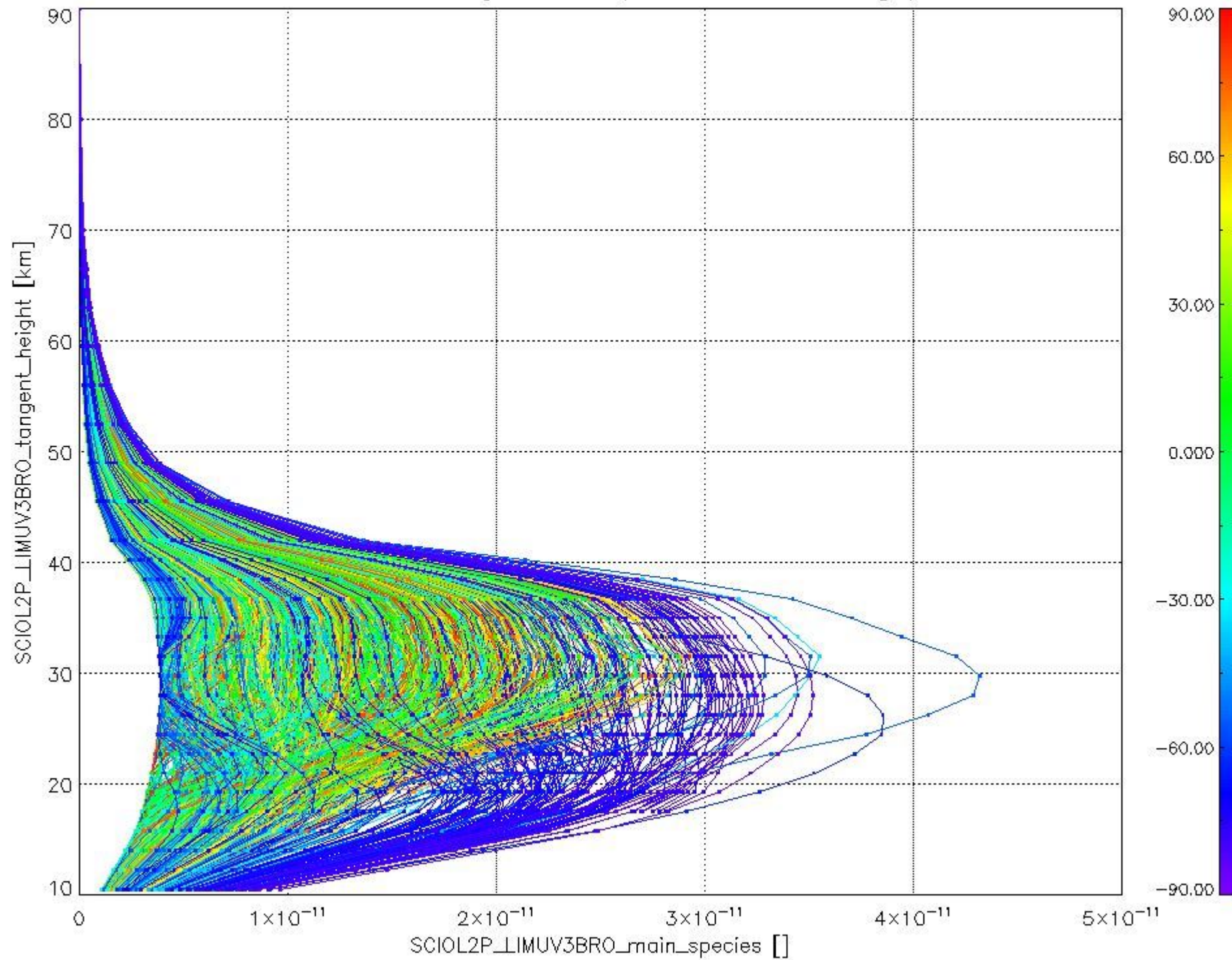
2.2.3.2 NO2 (UV1)

Plot of 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)

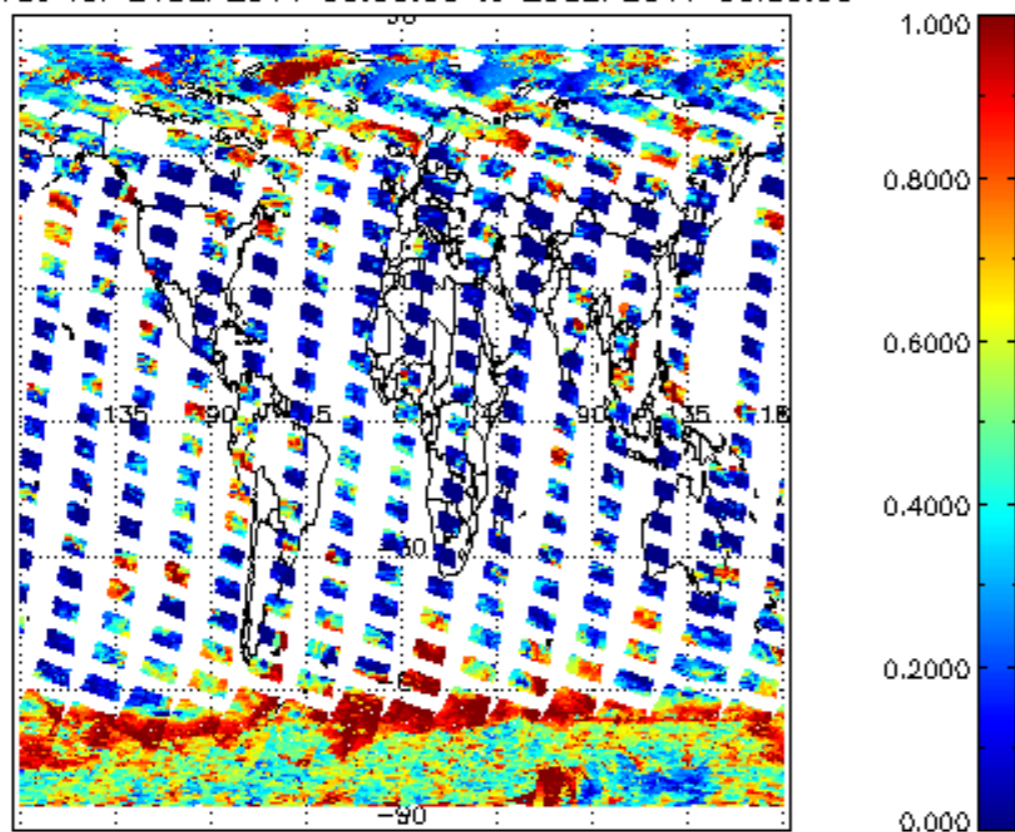
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



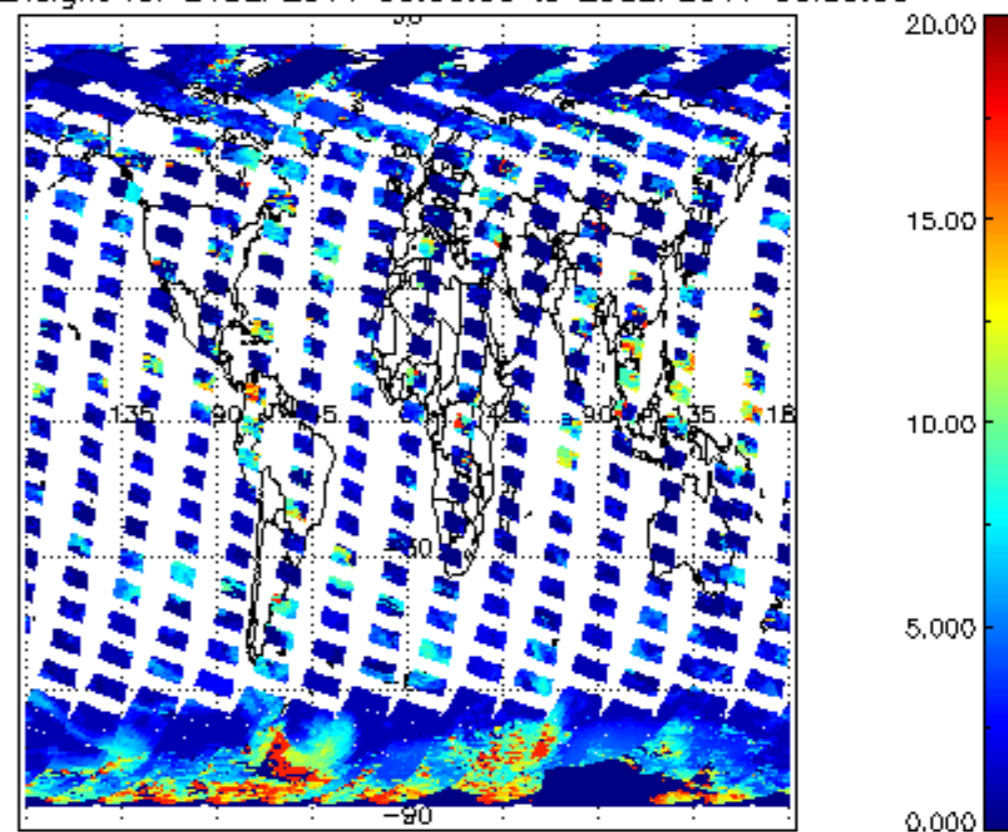
2.3 ADF monitoring

Number	ADF
	IN_ (INITIALISATION_FILE)
0	SCI_IN_AXNPDE20110201_120000_20020301_000000_20991231_235959
	ECF (ECMWF_FILE)
1	NOT USED
	MF1 (M_FACTOR_FILE)
2	SCI_MF1_AXVIEC20110927_141206_20110923_193044_20110925_193044
3	SCI_MF1_AXVIEC20110927_141319_20110924_185359_20110926_185359

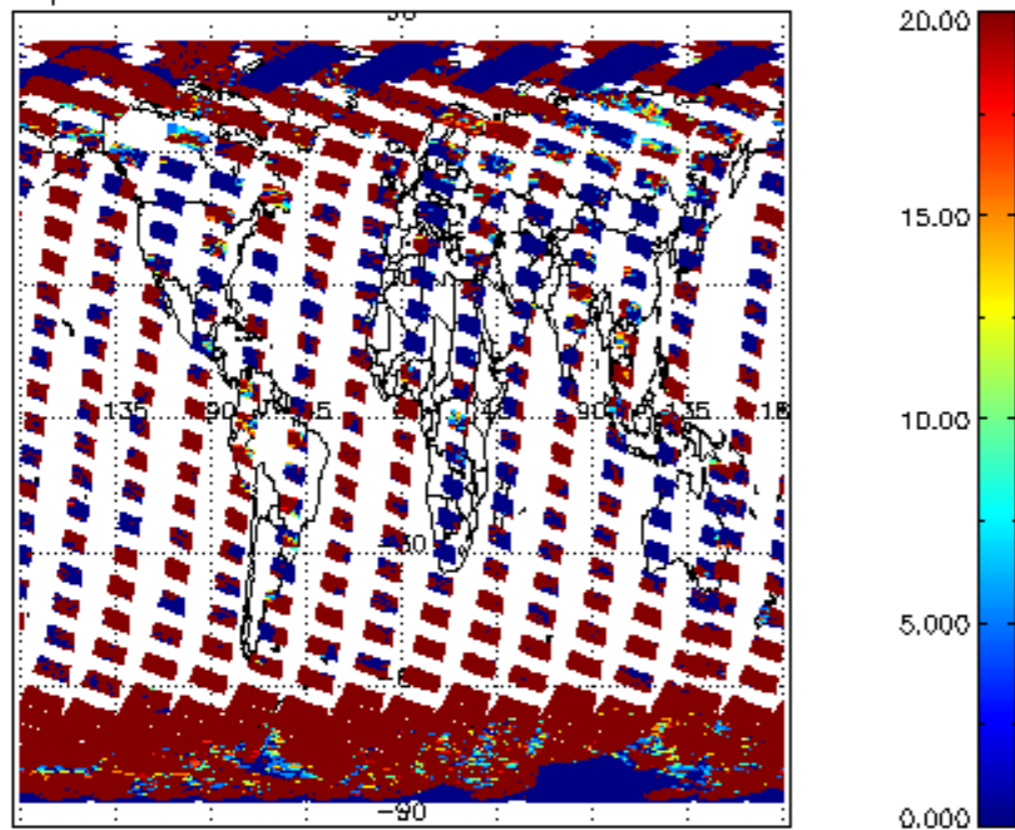
cl_frac for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



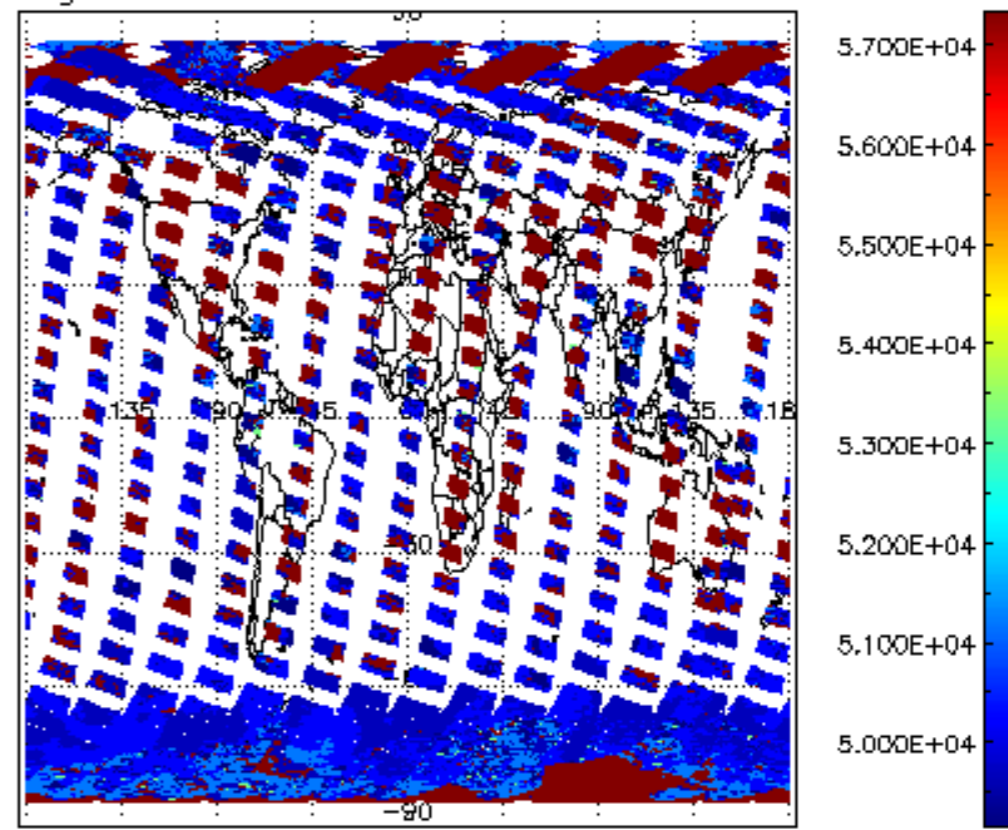
cl_top_height for 24SEP2011 00:00:00 to 25SEP2011 00:00:00

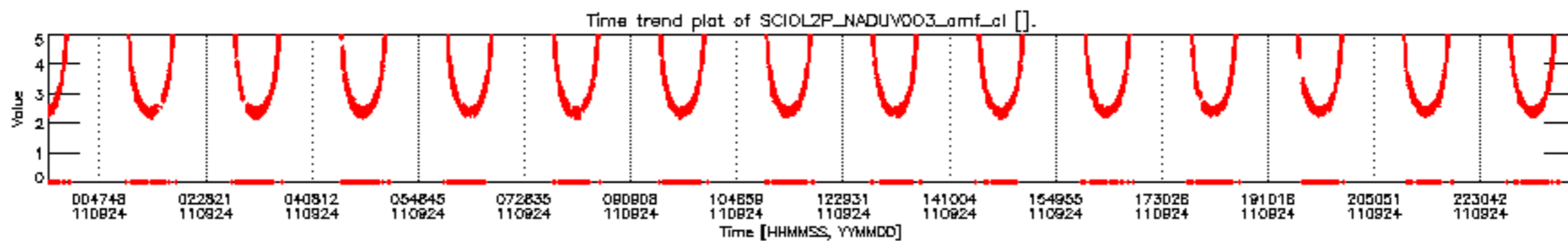
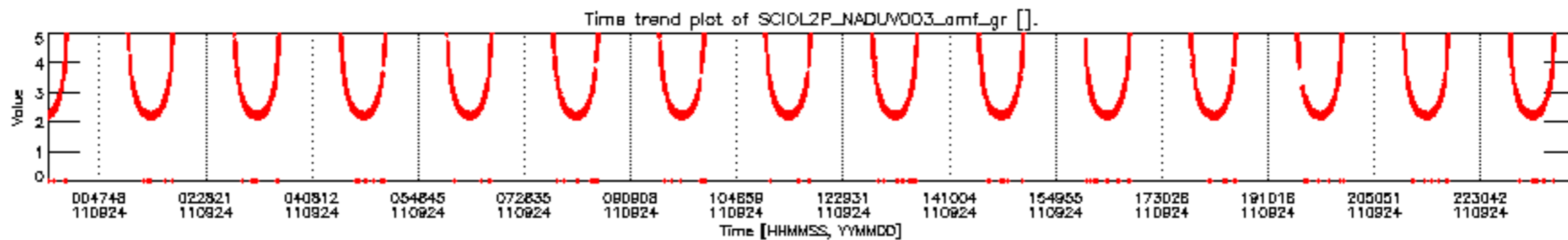
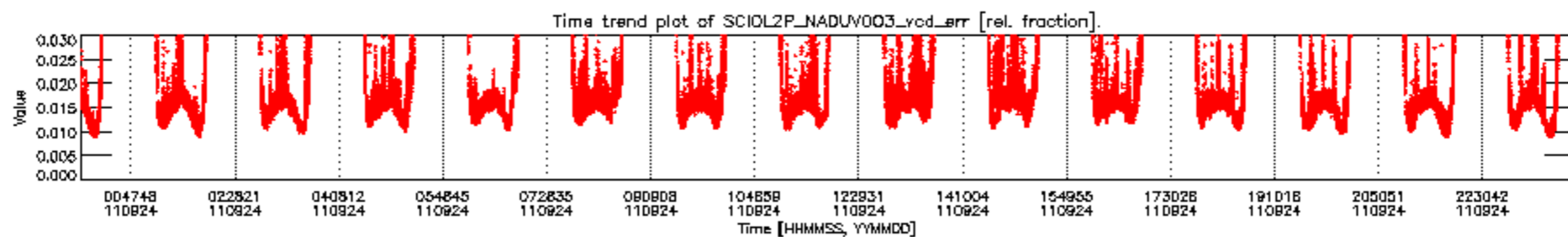
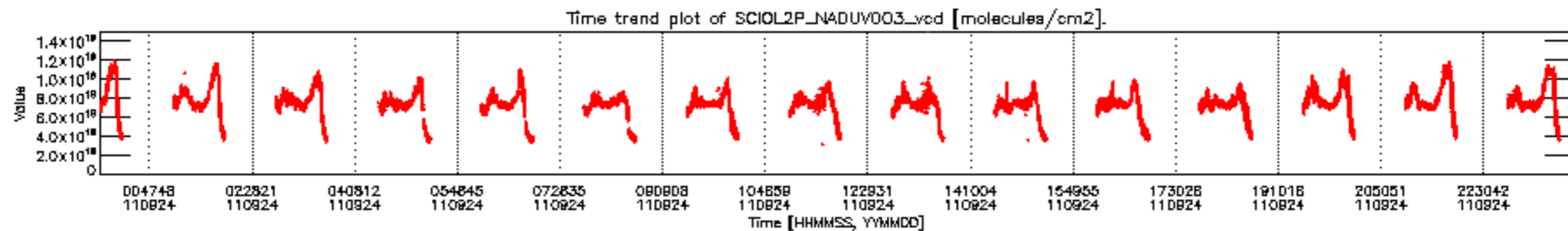


cl_opt_depth for 24SEP2011 00:00:00 to 25SEP2011 00:00:00

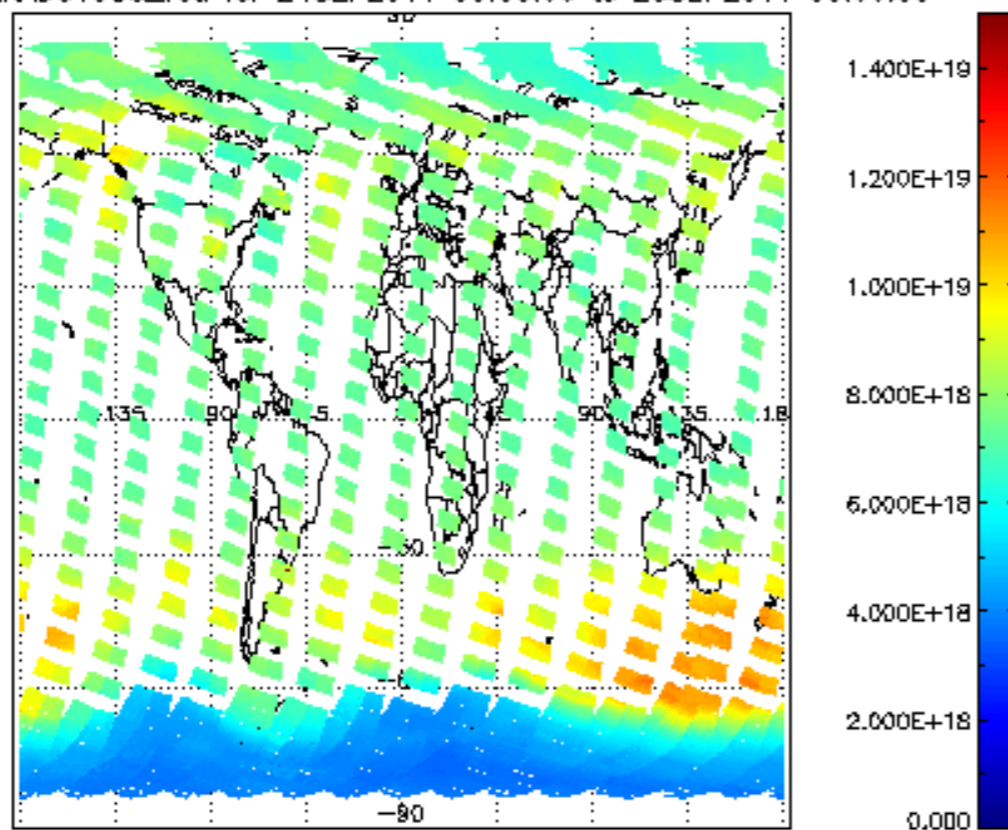


cloud_flags for 24SEP2011 00:00:00 to 25SEP2011 00:00:00

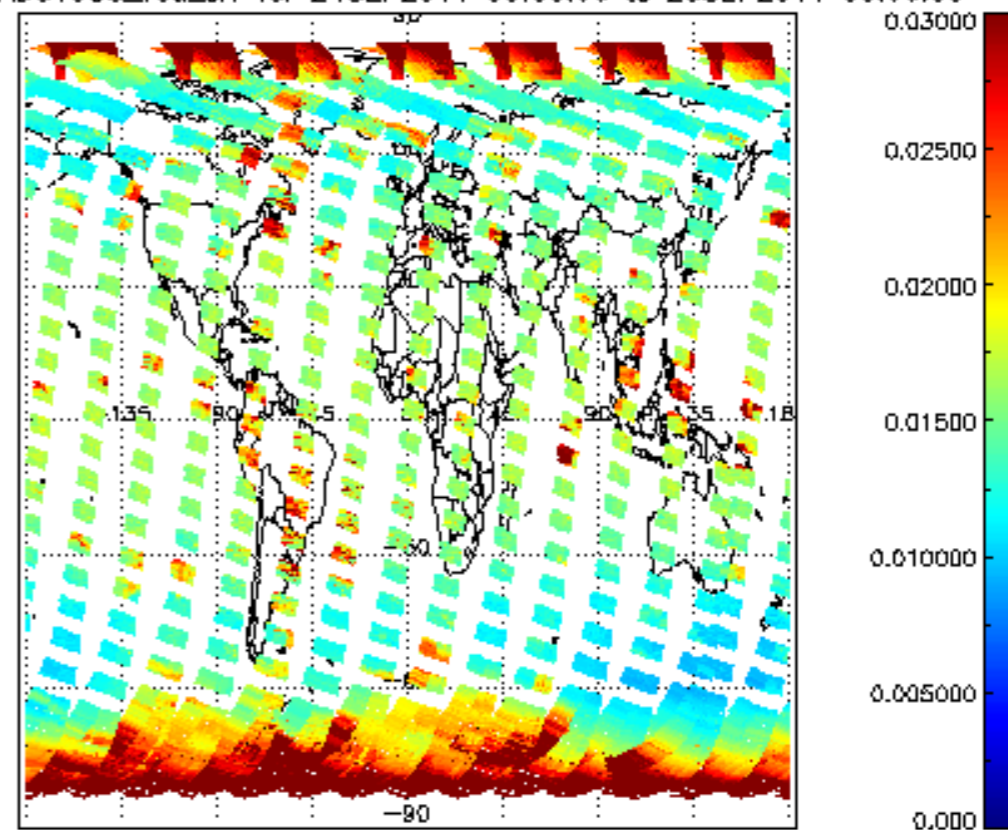




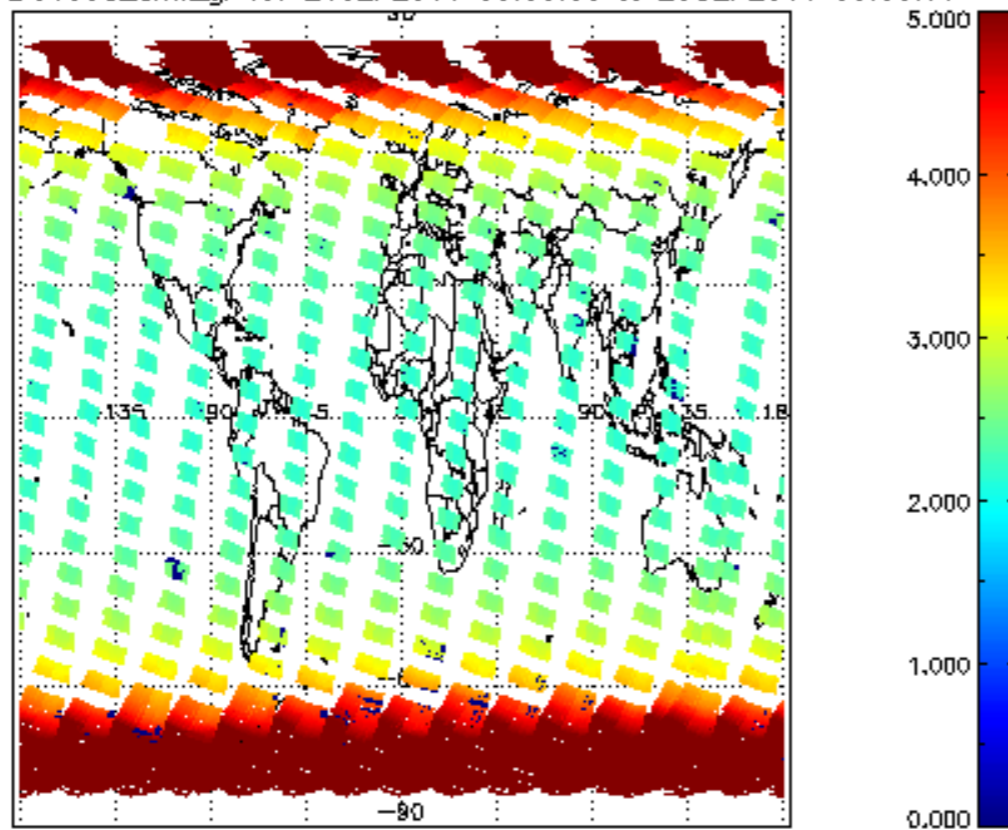
SCIOL2P_NADUV003_vcd for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



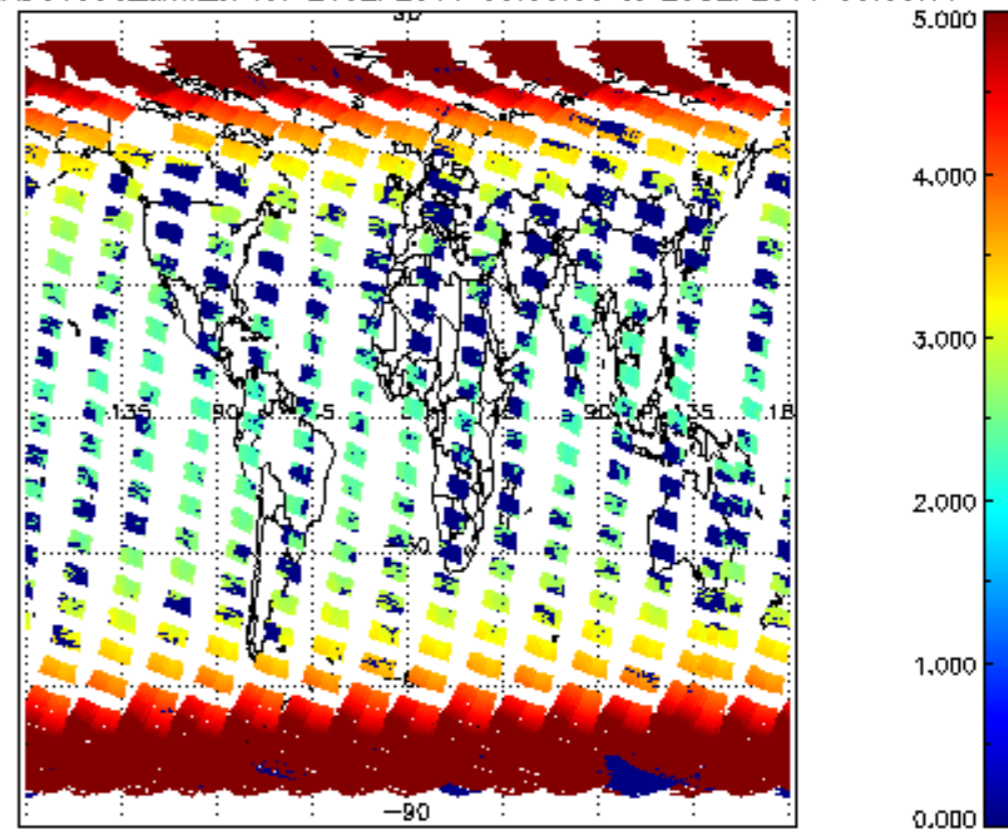
SCIOL2P_NADUV003_vcd_err for 24SEP2011 00:00:00 to 25SEP2011 00:00:00

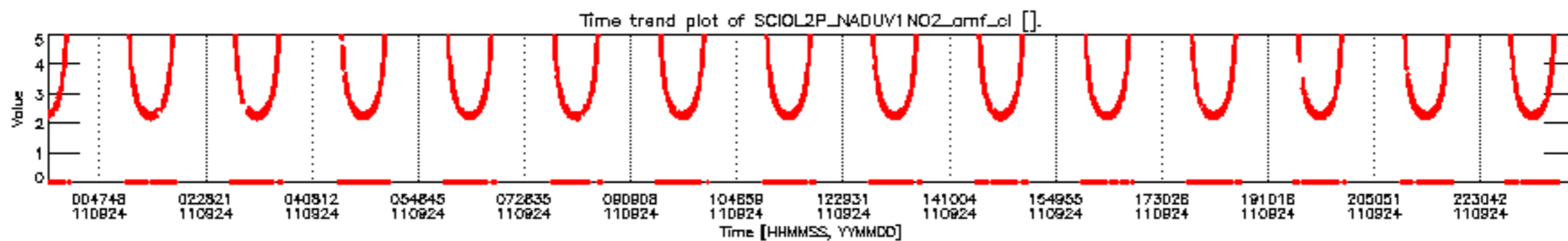
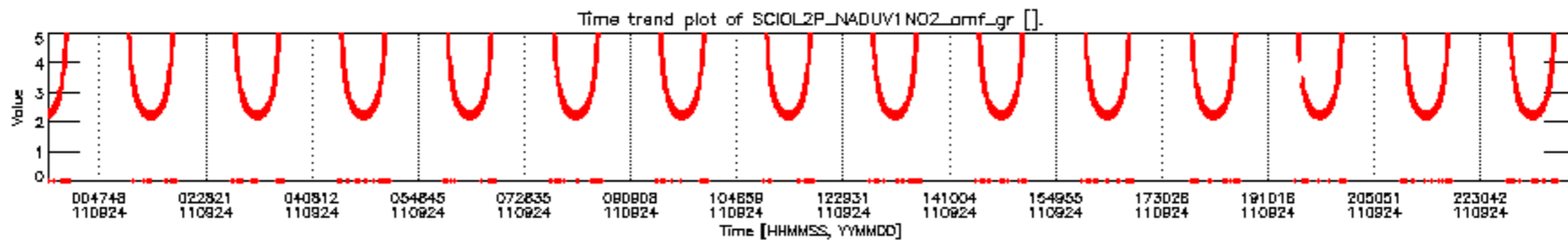
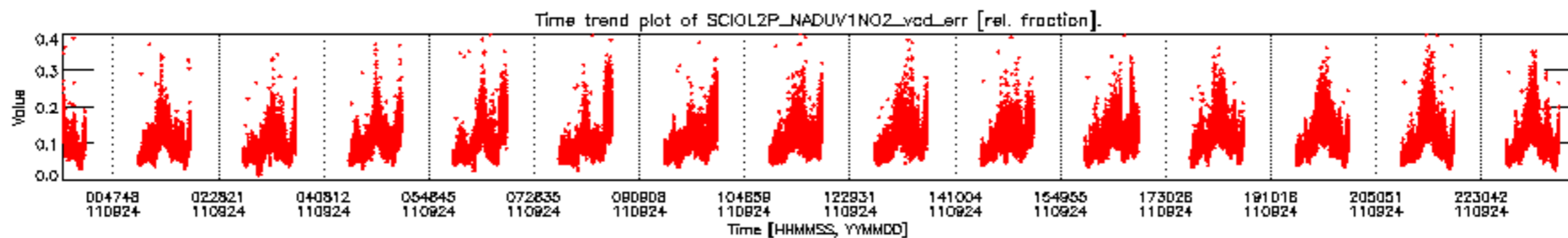
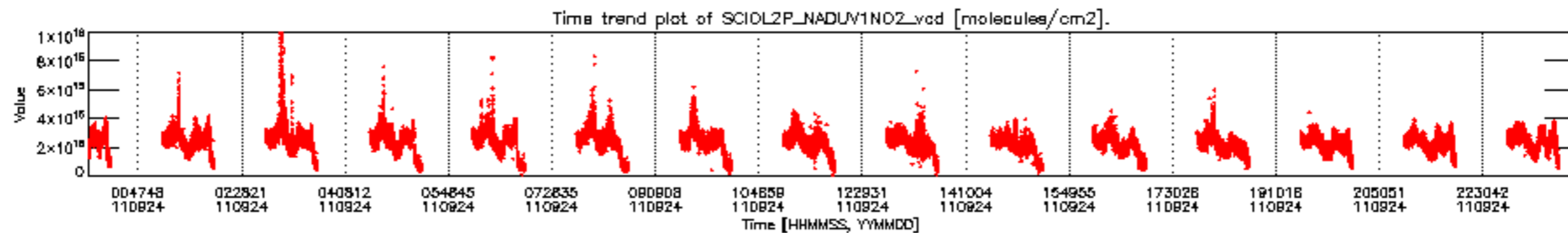


SCIOL2P_NADUV003_amf_gr for 24SEP2011 00:00:00 to 25SEP2011 00:00:00

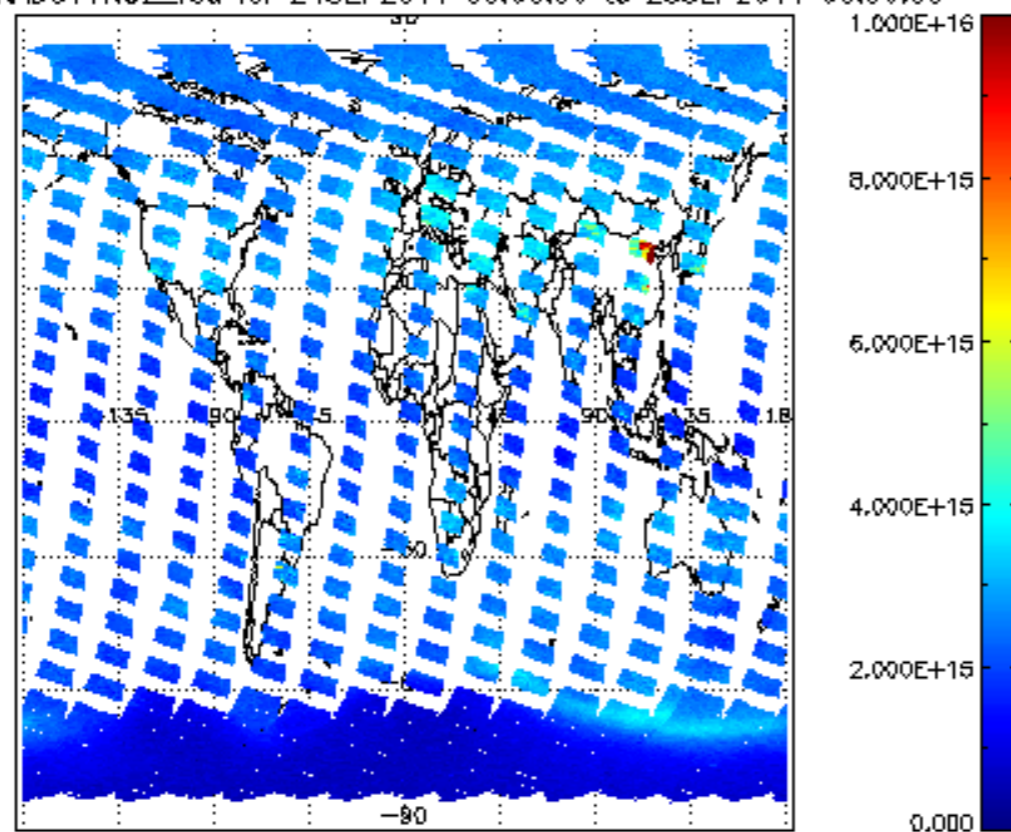


SCIOL2P_NADUV003_amf_cl for 24SEP2011 00:00:00 to 25SEP2011 00:00:00

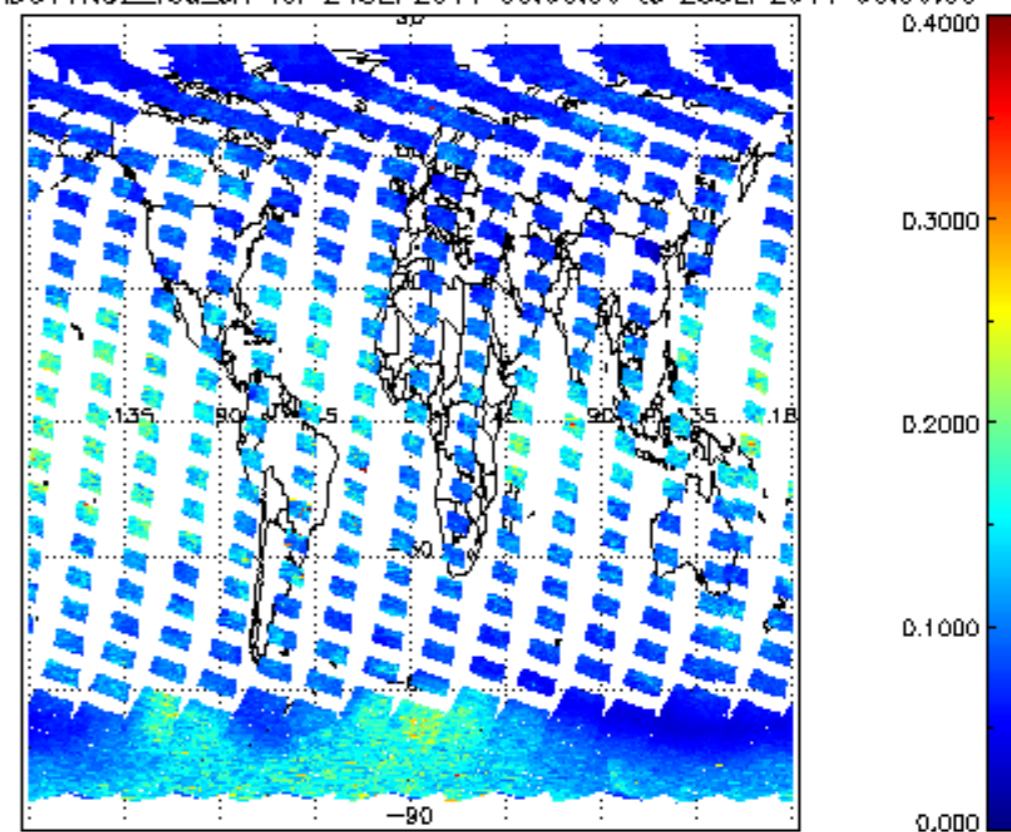




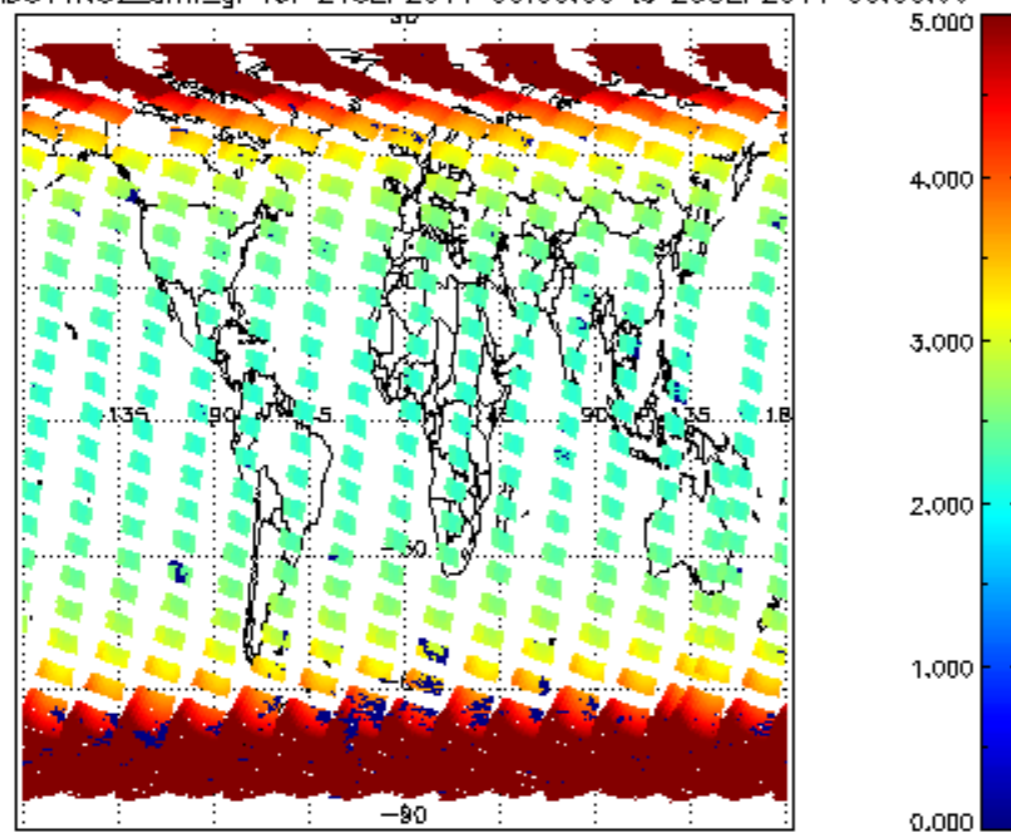
SCIOL2P_NADUV1NO2_vcd for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



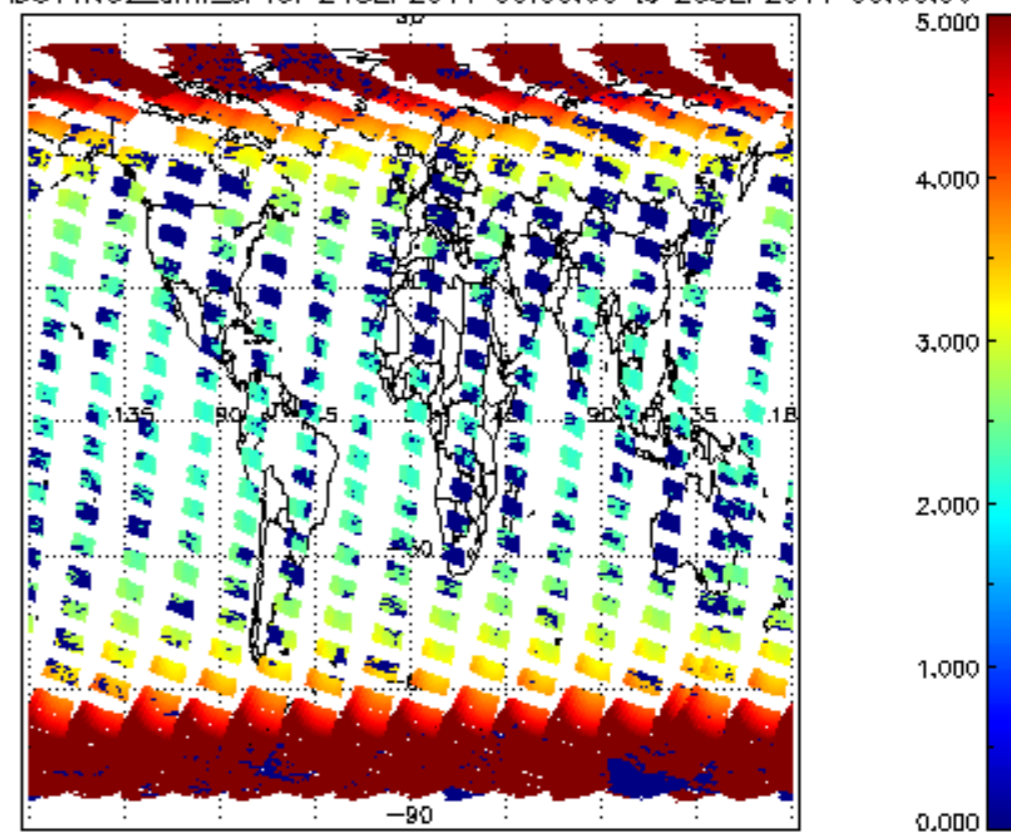
SCIOL2P_NADUV1NO2_vcd_err for 24SEP2011 00:00:00 to 25SEP2011 00:00:00

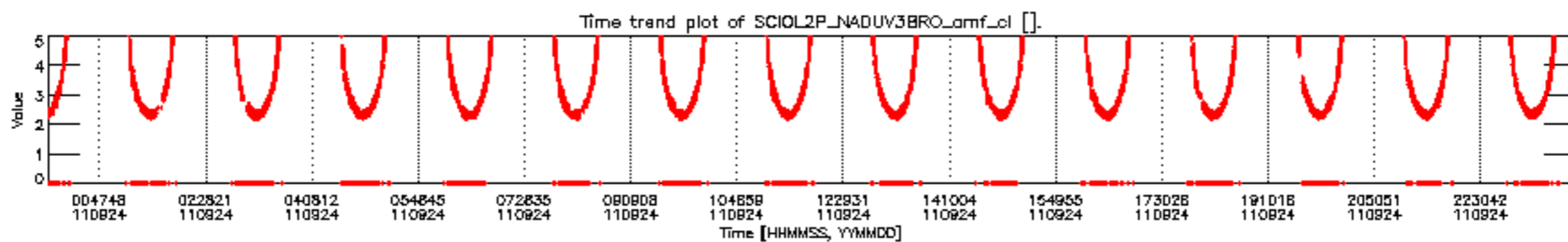
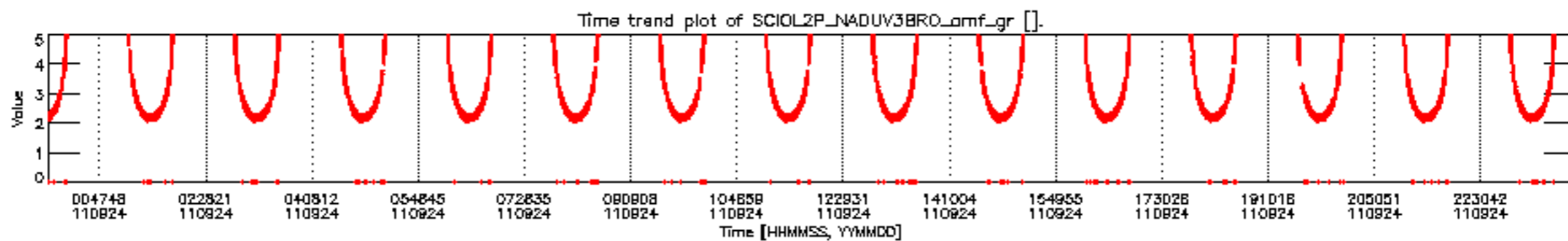
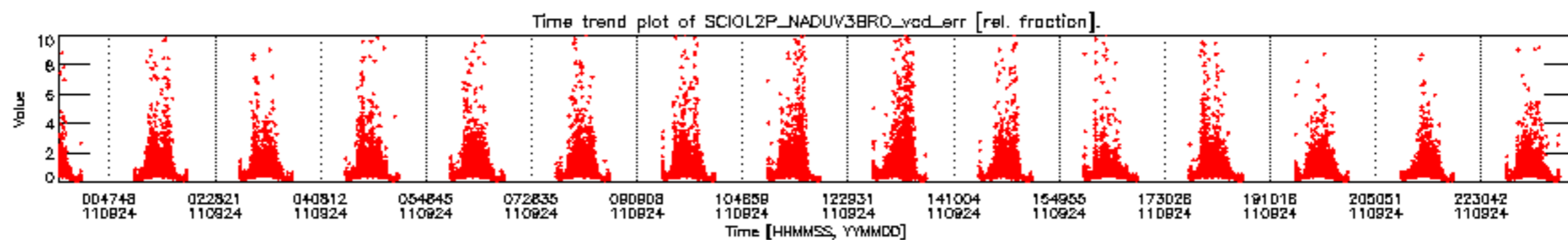
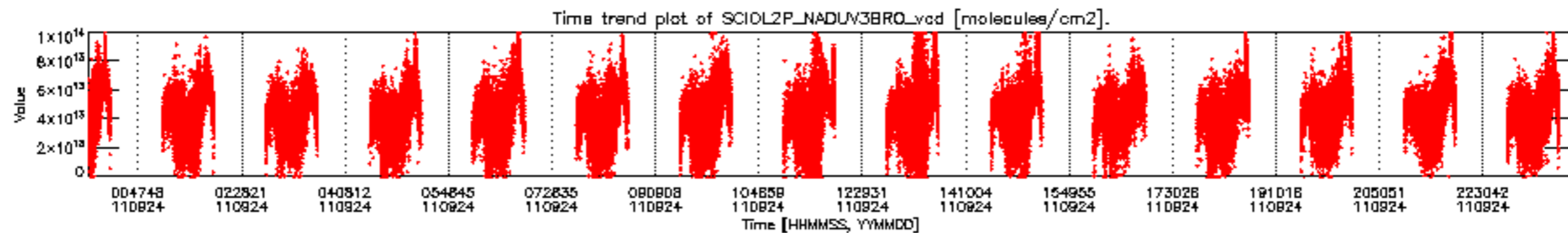


SCIOL2P_NADUV1NO2_amf_gr for 24SEP2011 00:00:00 to 25SEP2011 00:00:00

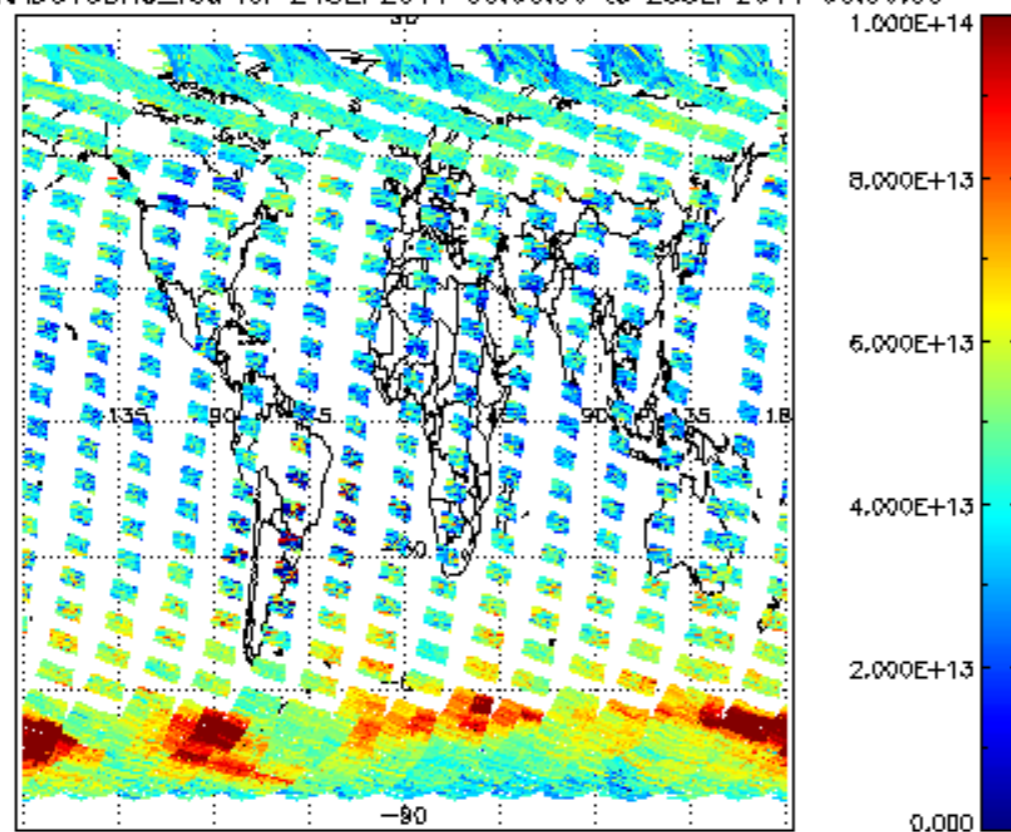


SCIOL2P_NADUV1NO2_amf_sl for 24SEP2011 00:00:00 to 25SEP2011 00:00:00

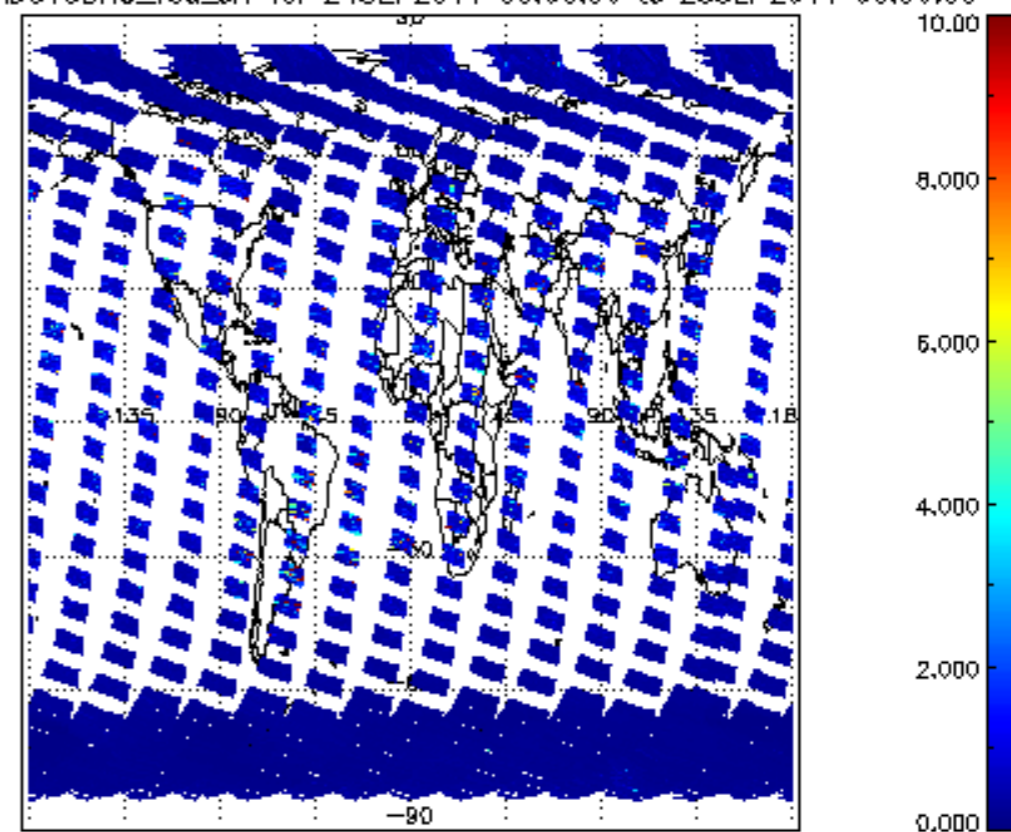




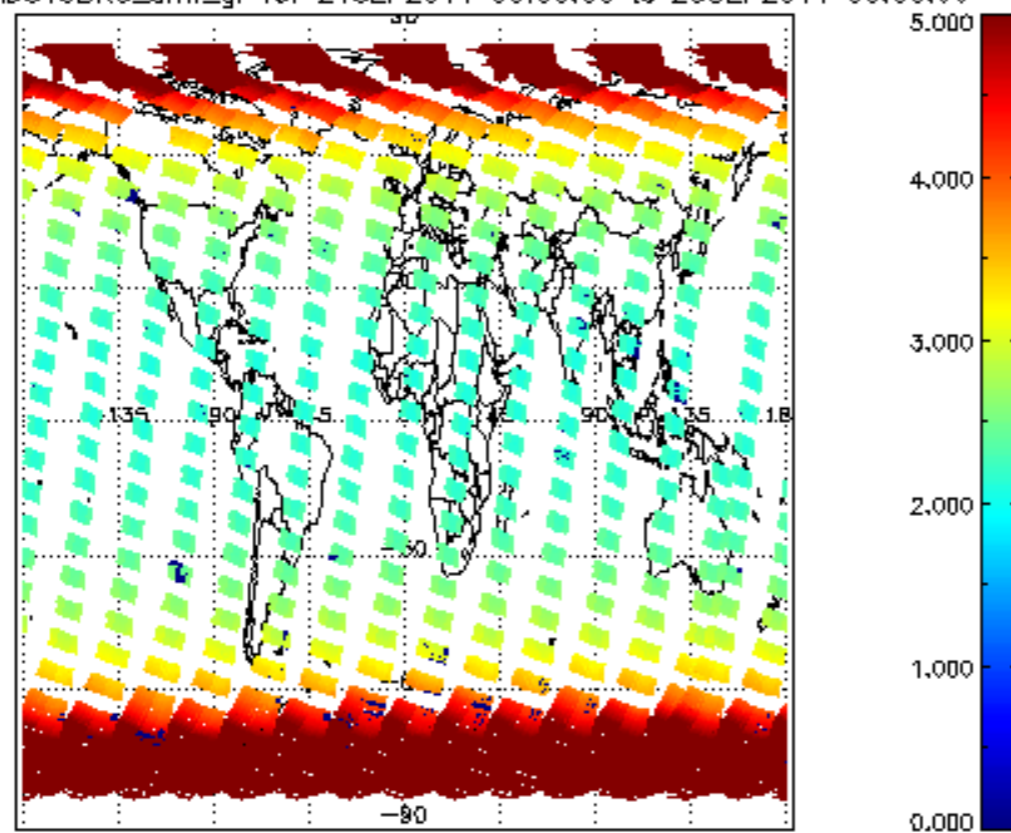
SCIOL2P_NADUV3BRO_vcd for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



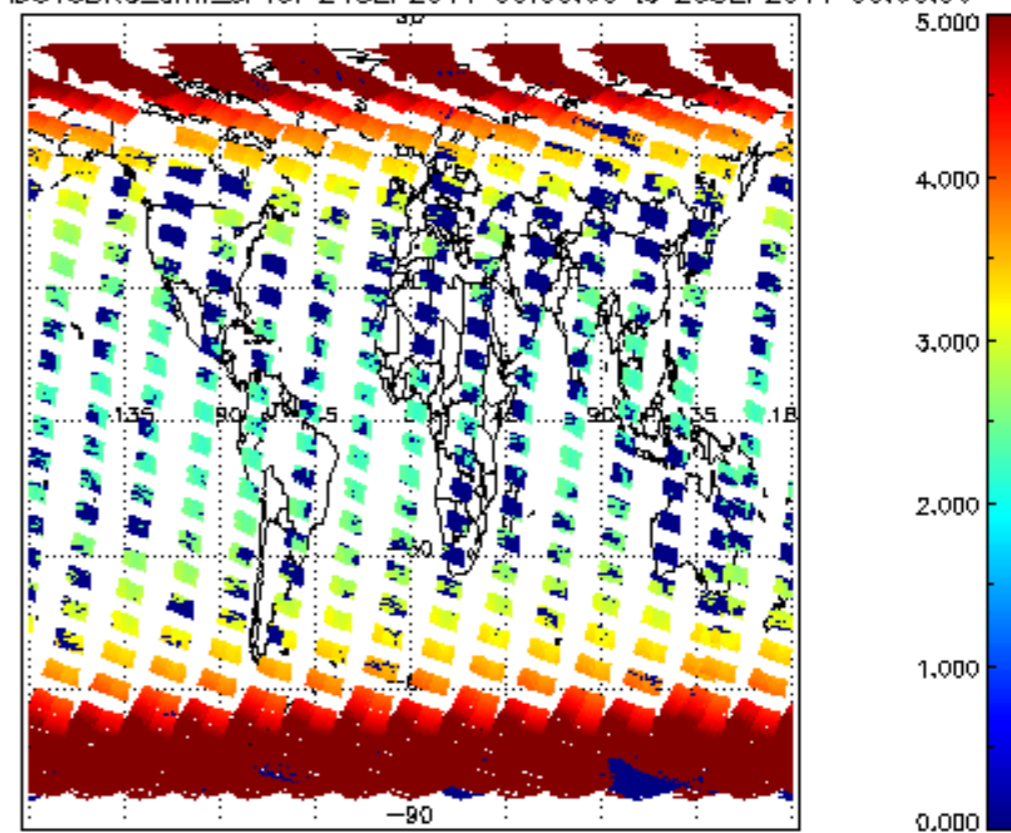
SCIOL2P_NADUV3BRO_vcd_err for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



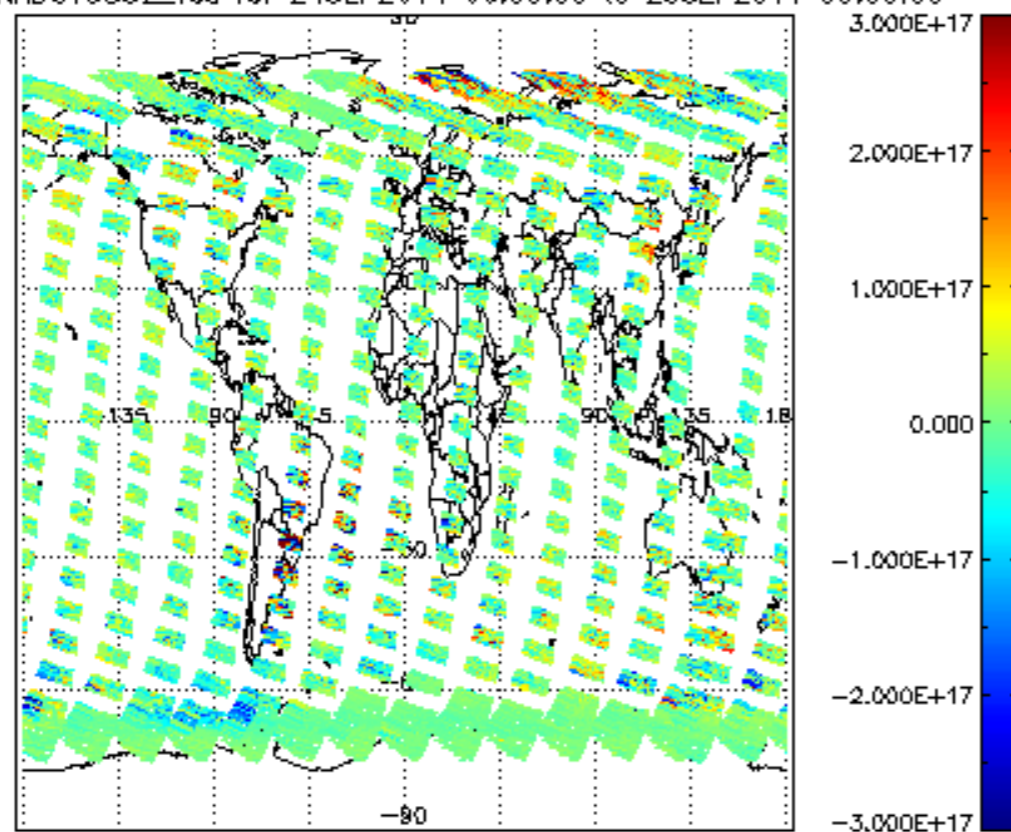
SCIOL2P_NADUV3BRO_amf_gr for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



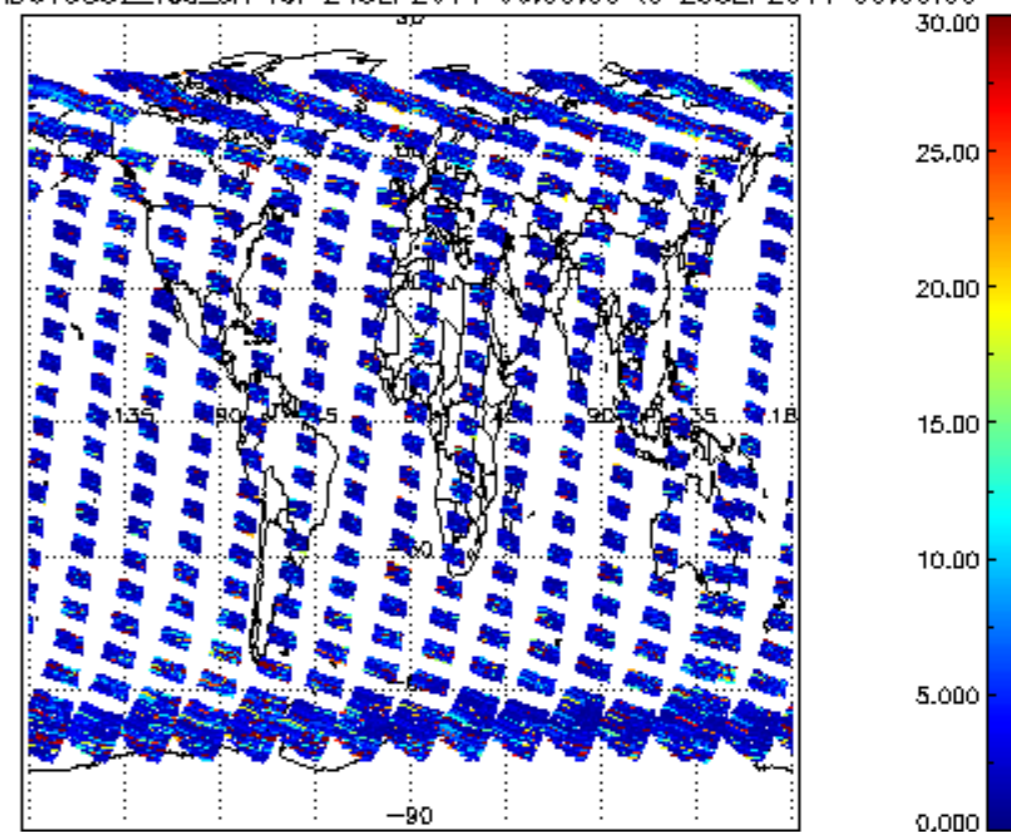
SCIOL2P_NADUV3BRO_amf_sl for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



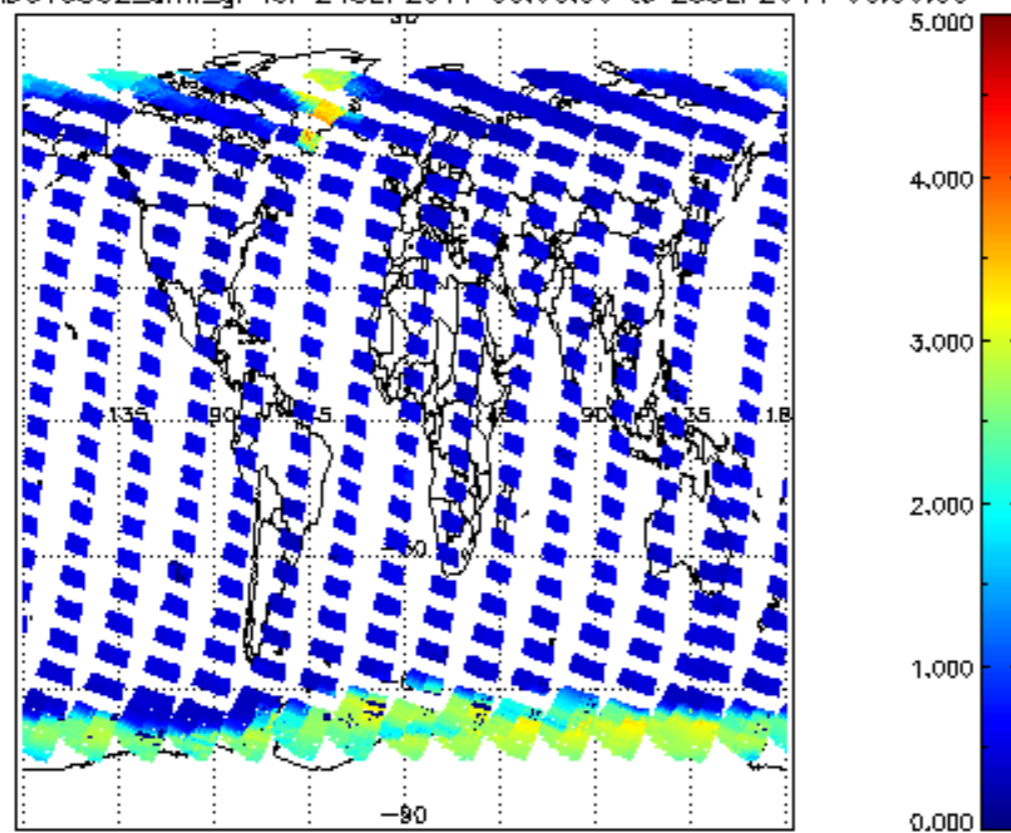
SCIOL2P_NADUV5S02_vcd for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



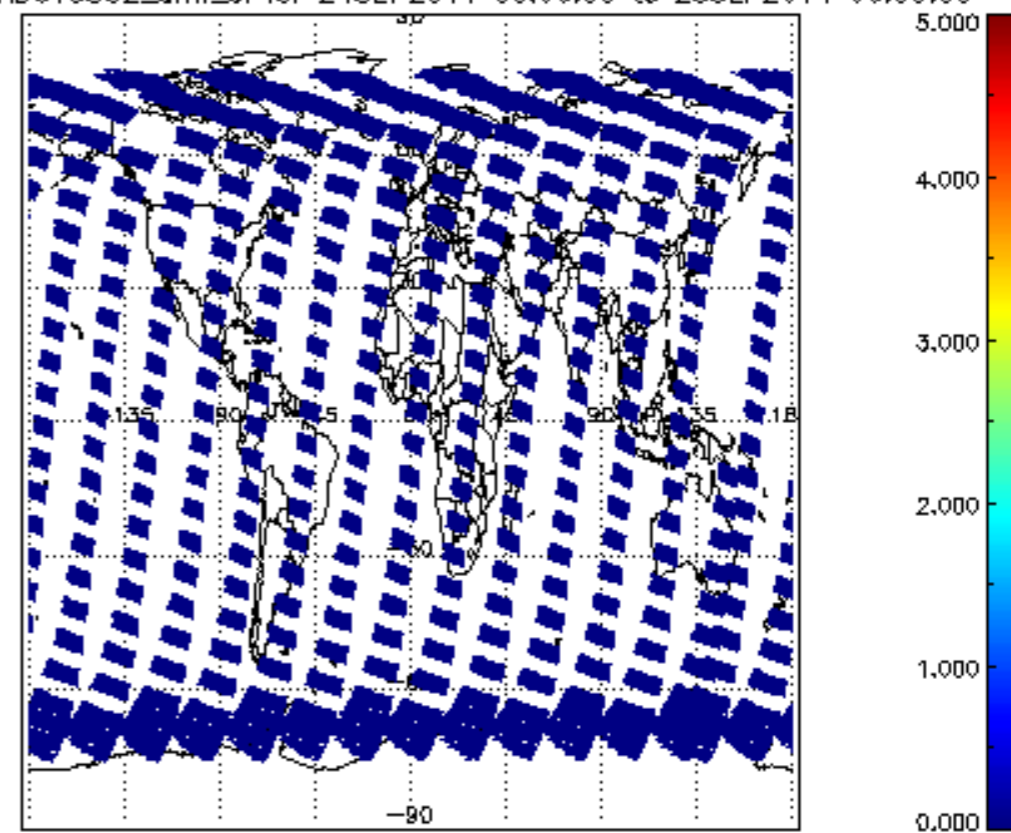
SCIOL2P_NADUV5S02_vcd_err for 24SEP2011 00:00:00 to 25SEP2011 00:00:00

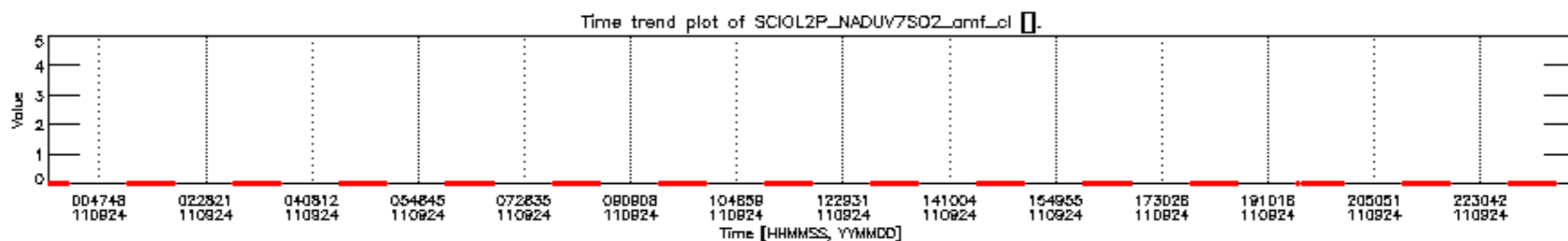
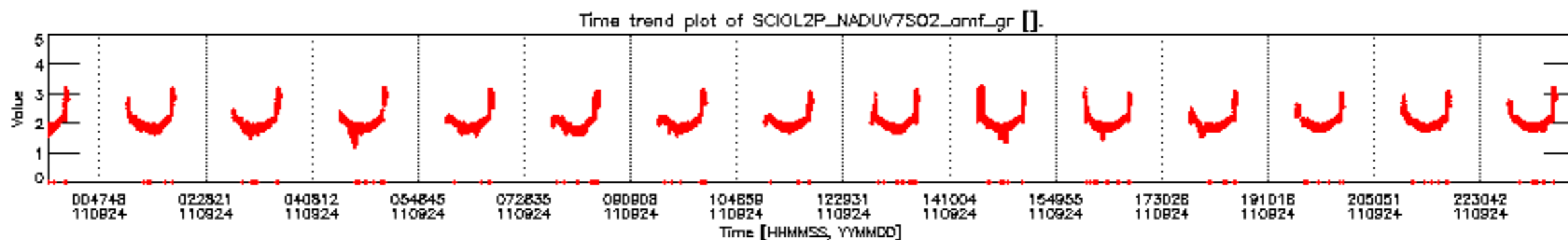
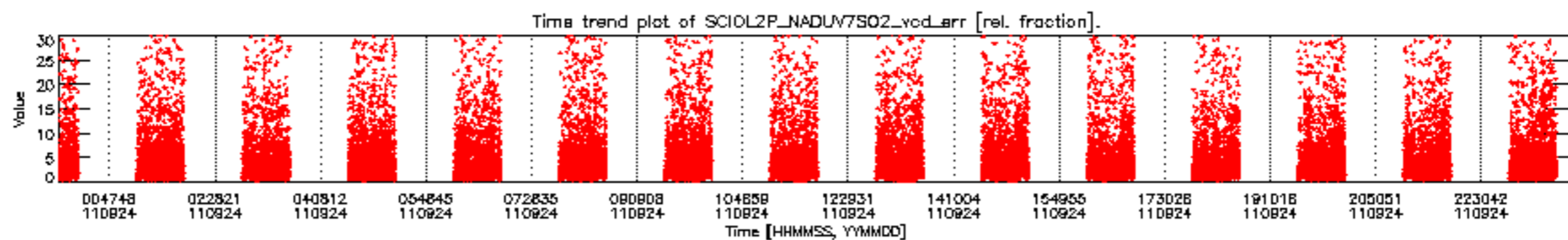
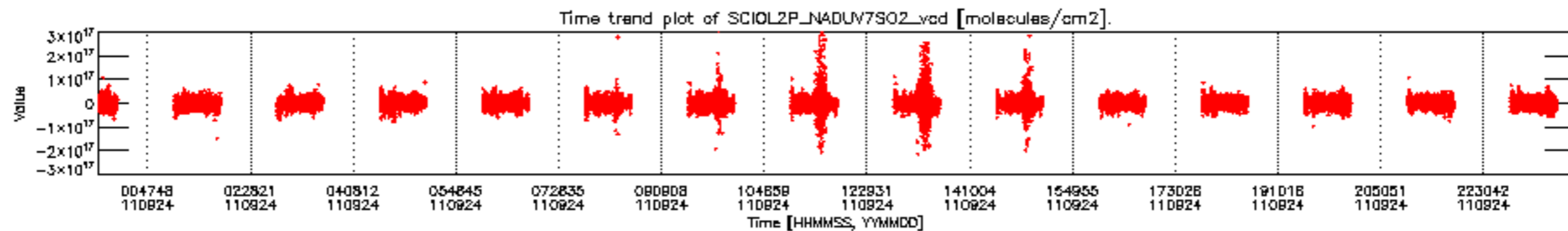


SCIOL2P_NADUV5S02_amf_gr for 24SEP2011 00:00:00 to 25SEP2011 00:00:00

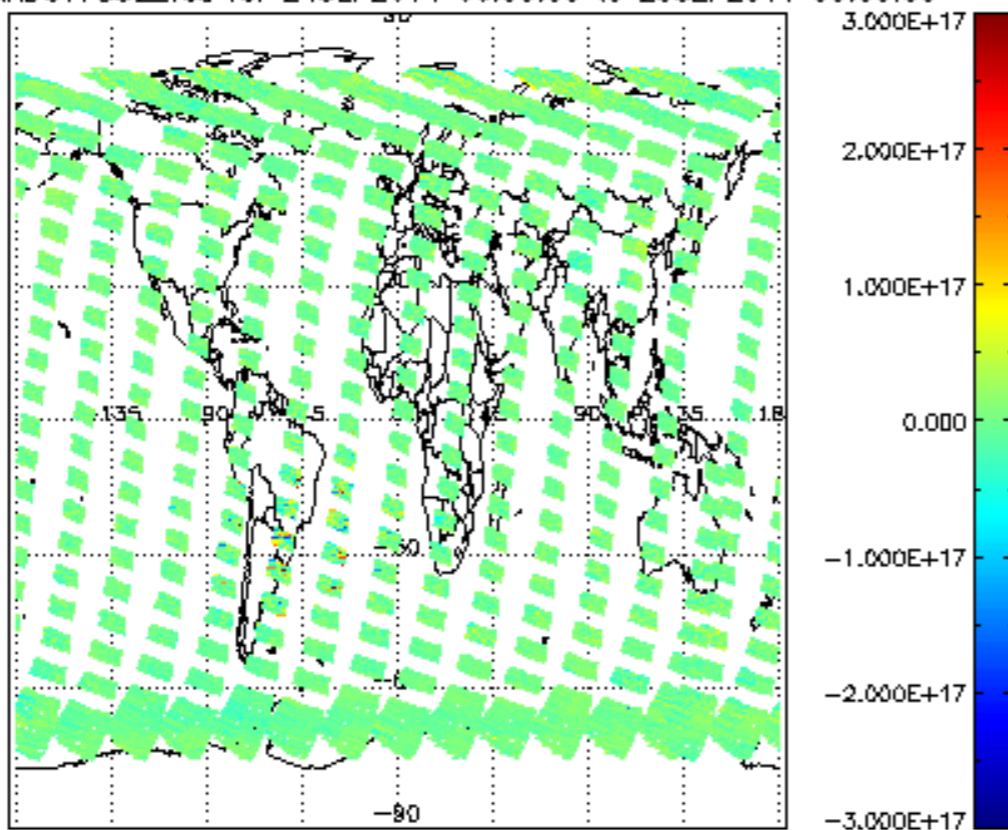


SCIOL2P_NADUV5S02_amf_cl for 24SEP2011 00:00:00 to 25SEP2011 00:00:00

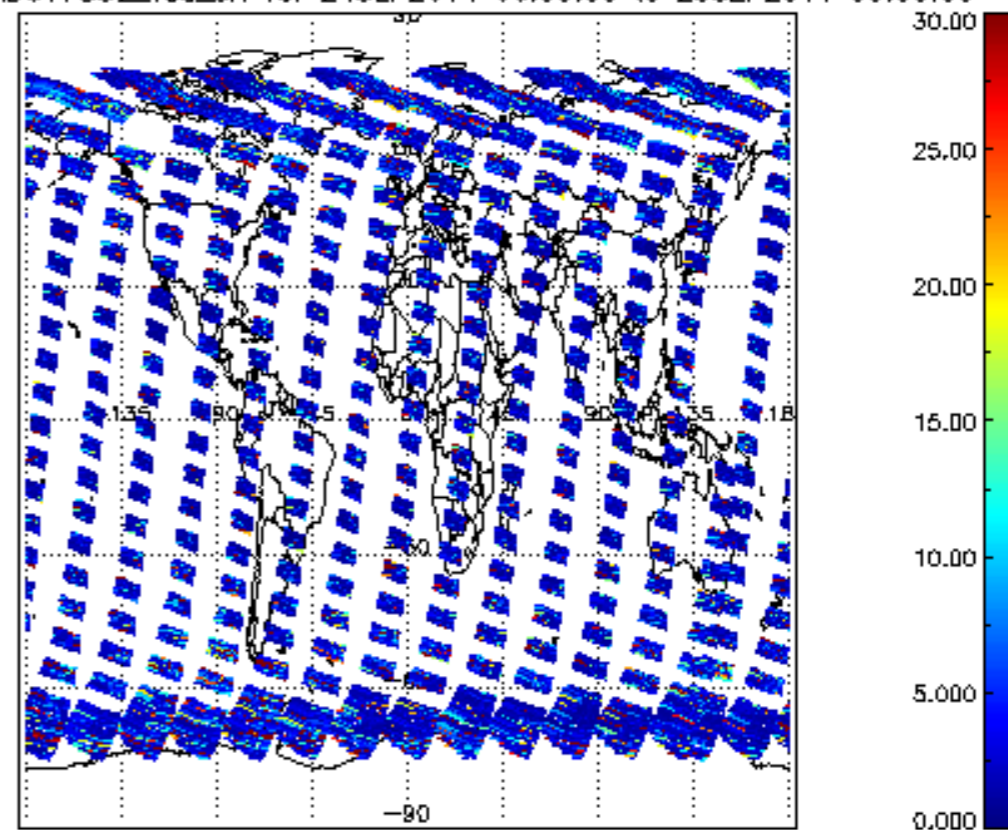




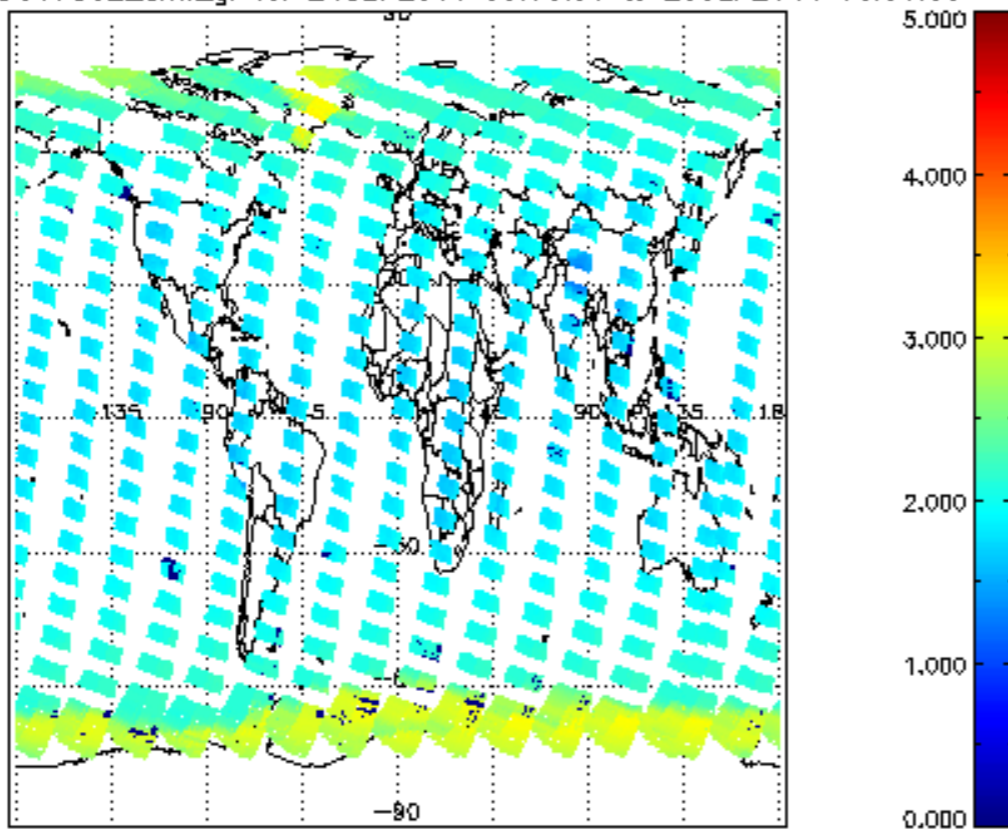
SCIOL2P_NADUV7S02_vcd for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



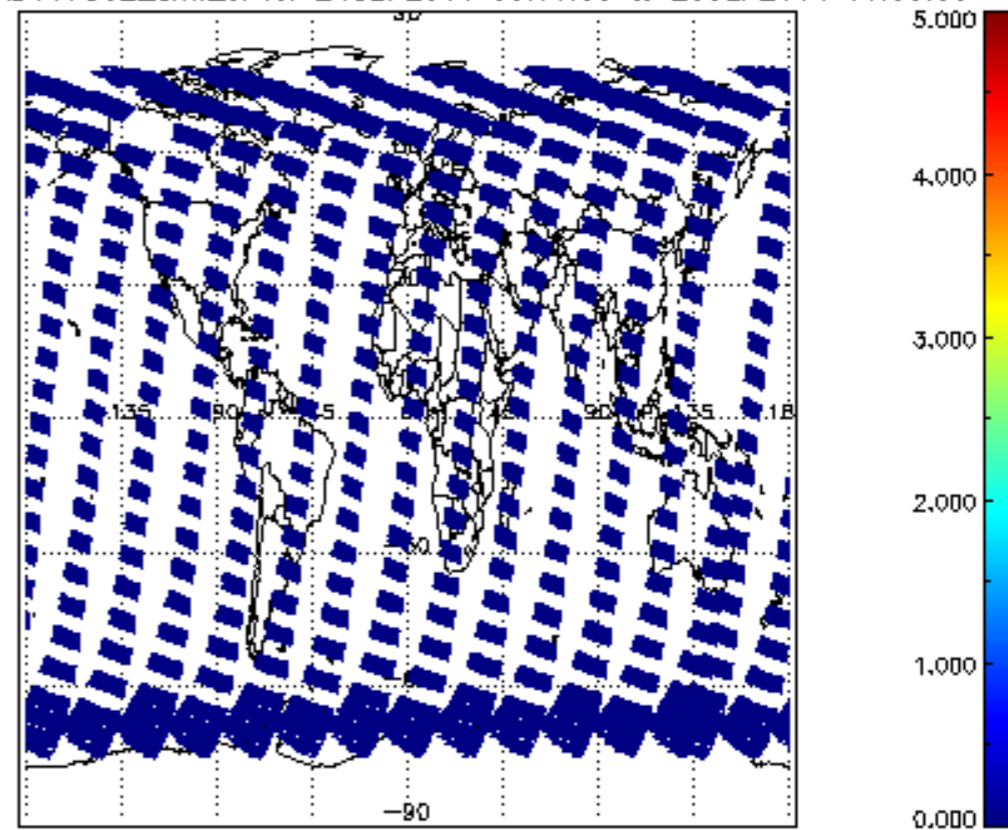
SCIOL2P_NADUV7S02_vcd_err for 24SEP2011 00:00:00 to 25SEP2011 00:00:00

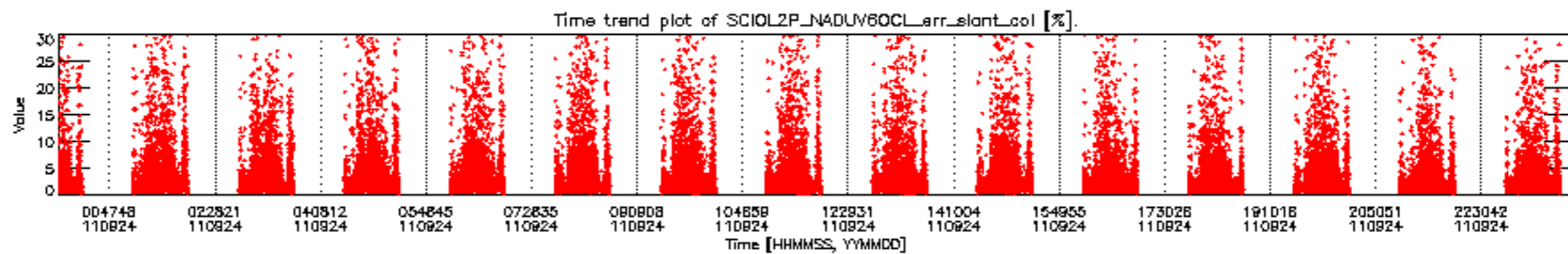
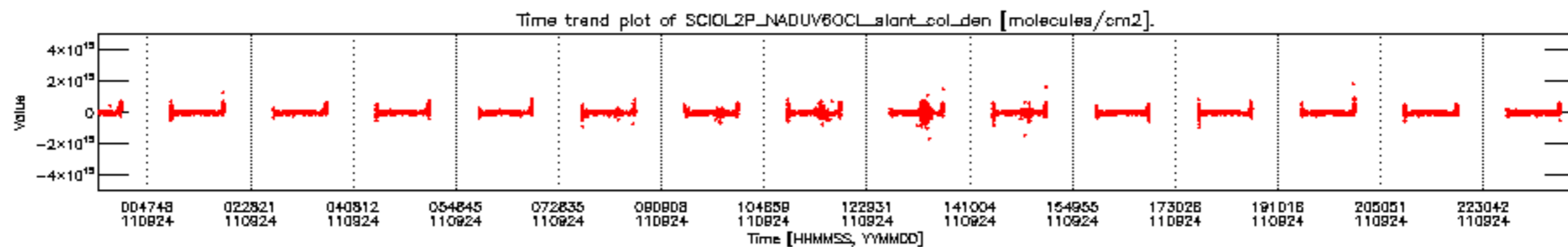


SCIOL2P_NADUV7S02_amf_gr for 24SEP2011 00:00:00 to 25SEP2011 00:00:00

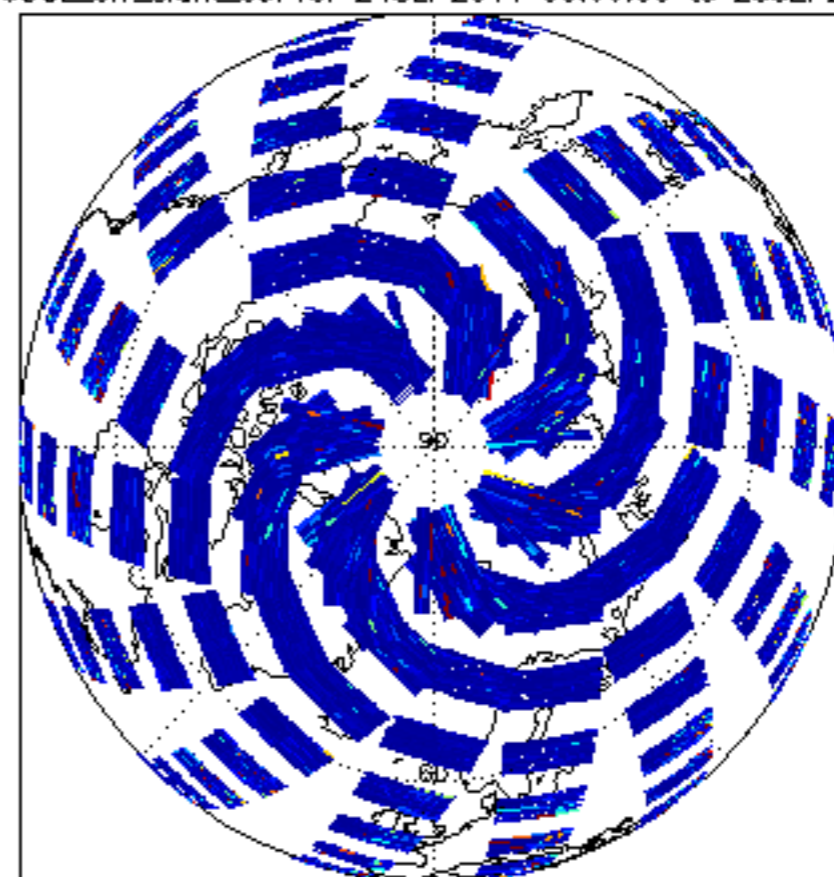
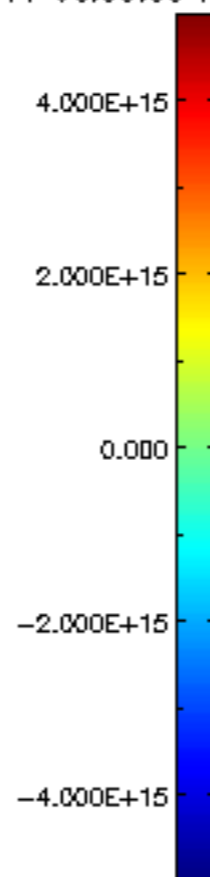
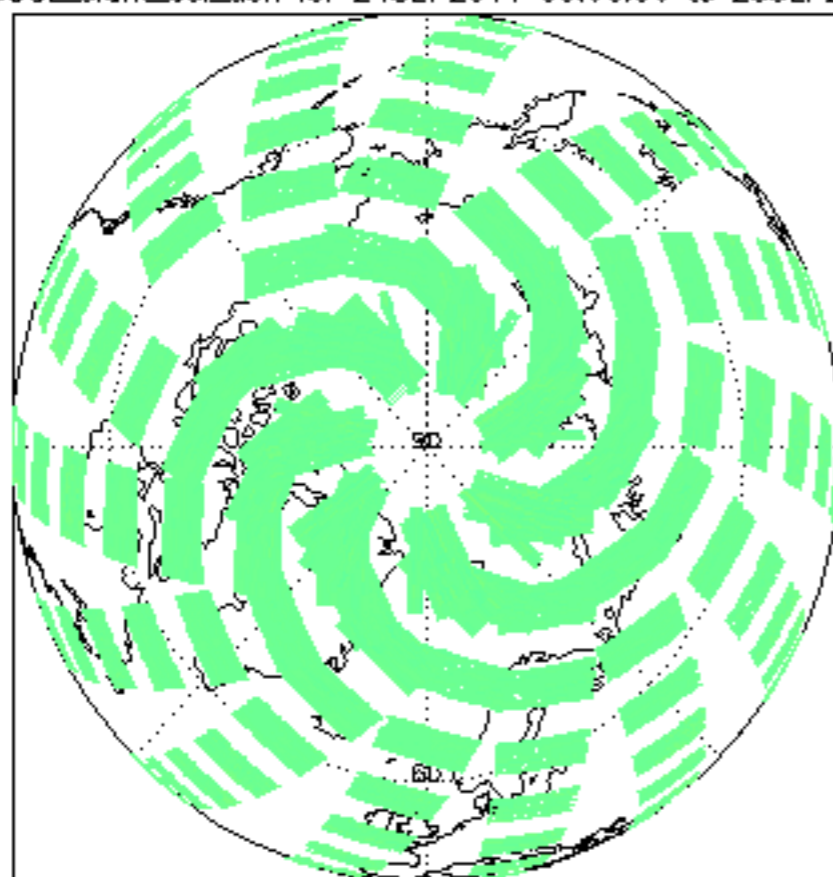


SCIOL2P_NADUV7S02_amf_cl for 24SEP2011 00:00:00 to 25SEP2011 00:00:00

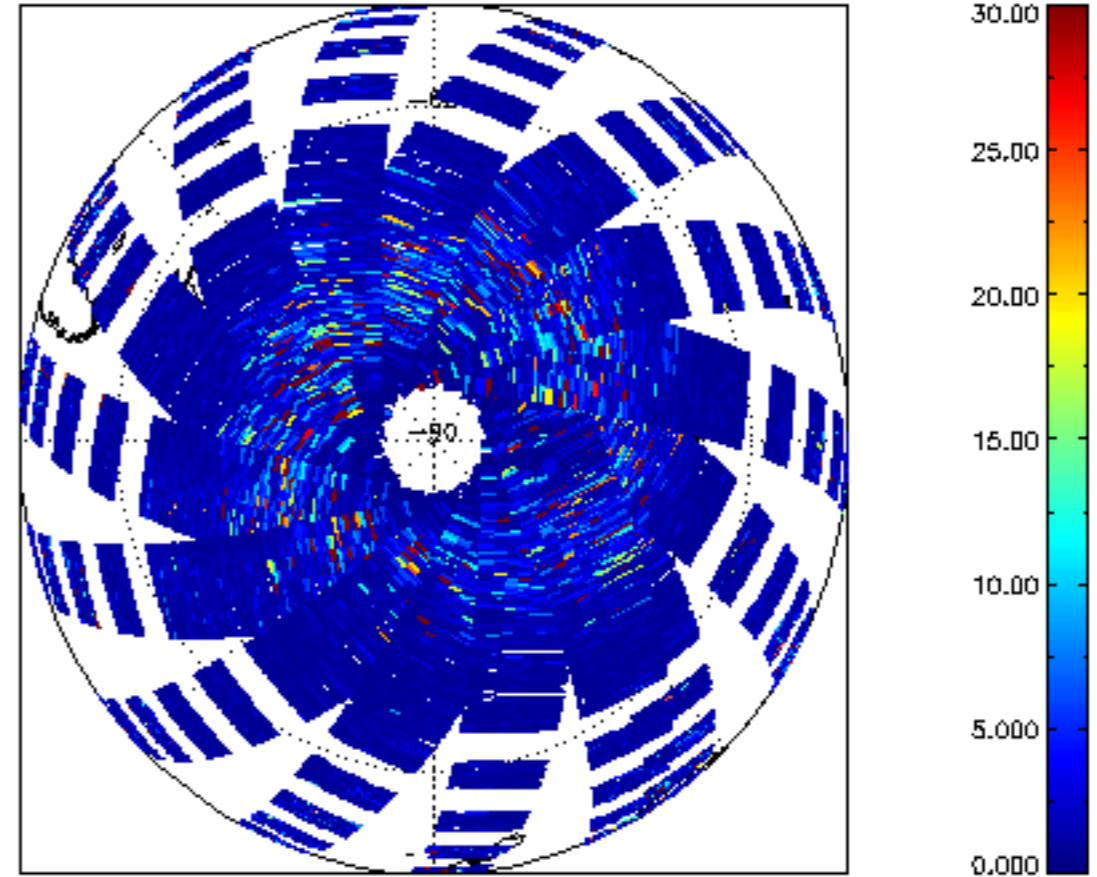
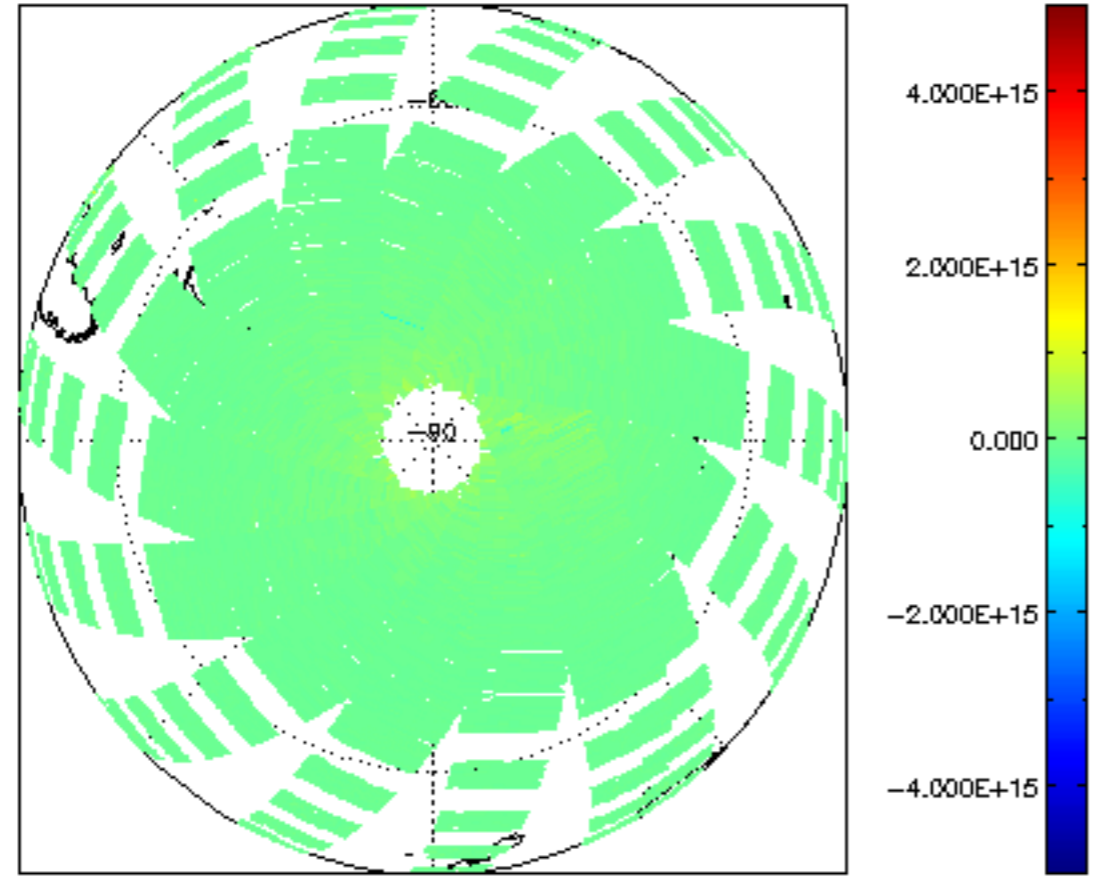


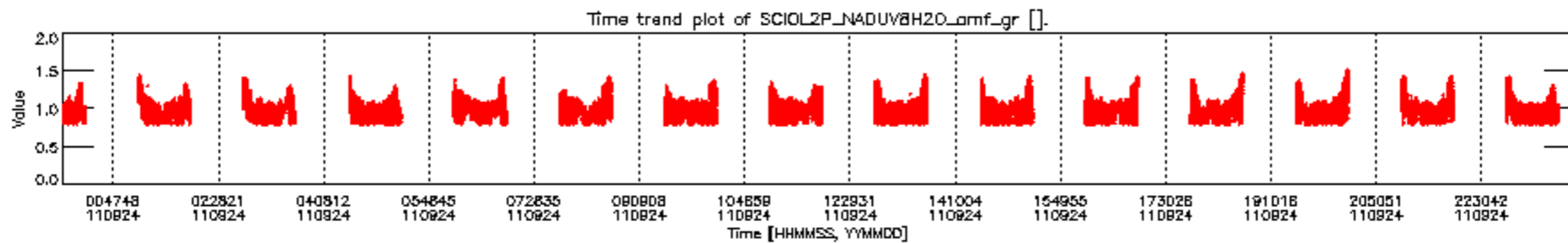
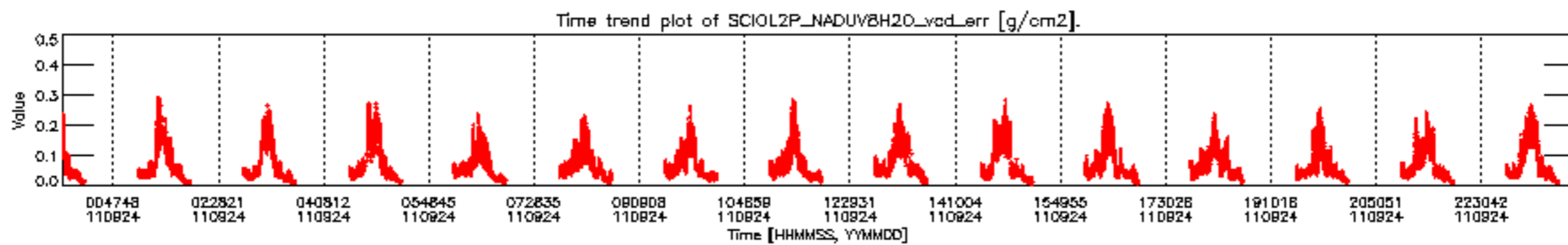
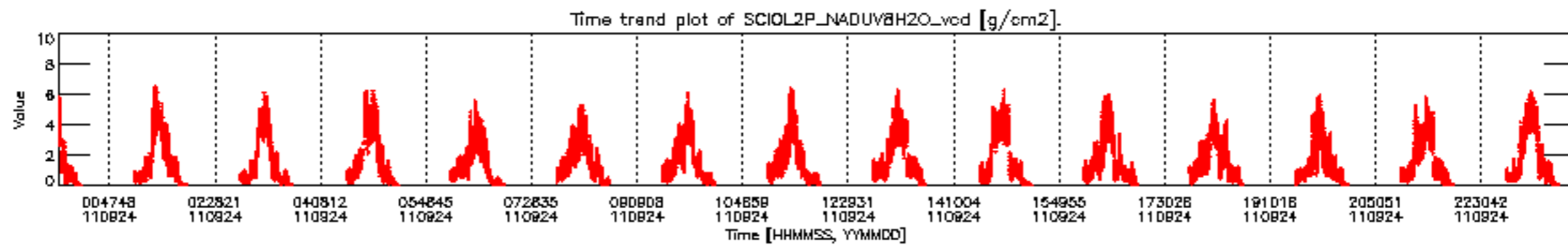


CIOL2P_NADUV60CL_slant_col_den for 24SEP2011 00:00:00 to 25SEP2011 00:00:00 np iCIOL2P_NADUV60CL_err_slant_col for 24SEP2011 00:00:00 to 25SEP2011 00:00:00 np

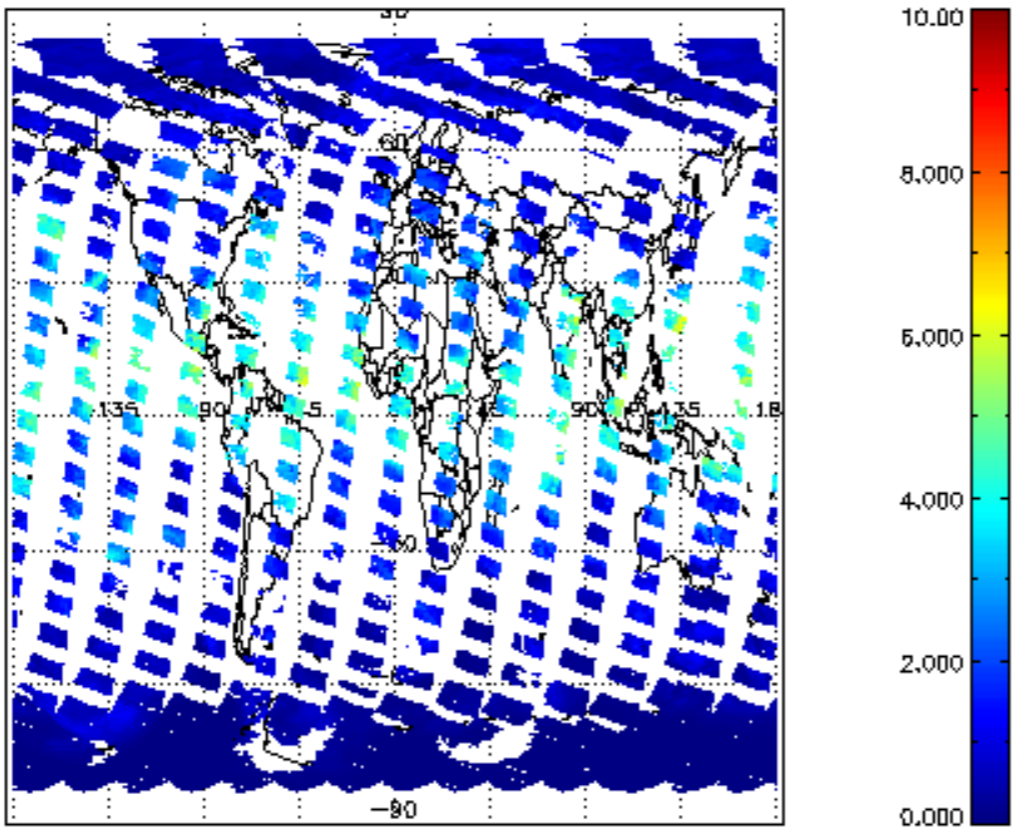


CIOL2P_NADUV60CL_slant_col_den for 24SEP2011 00:00:00 to 25SEP2011 00:00:00 sp iCIOL2P_NADUV60CL_err_slant_col for 24SEP2011 00:00:00 to 25SEP2011 00:00:00 sp

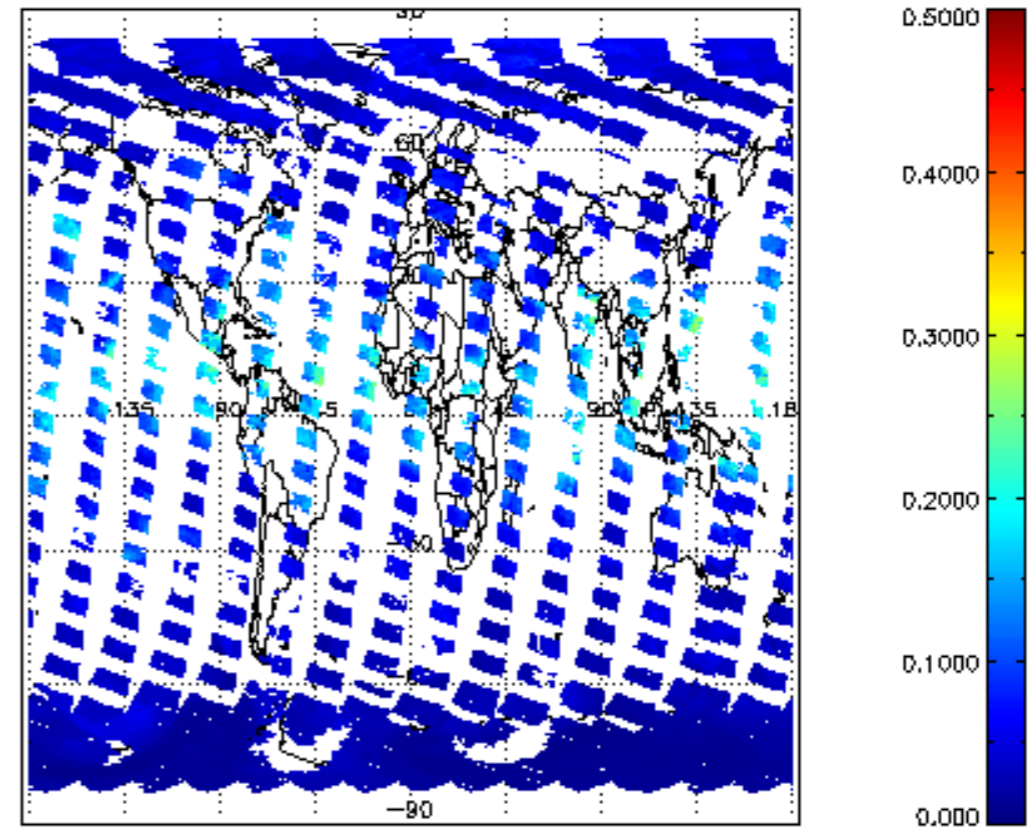




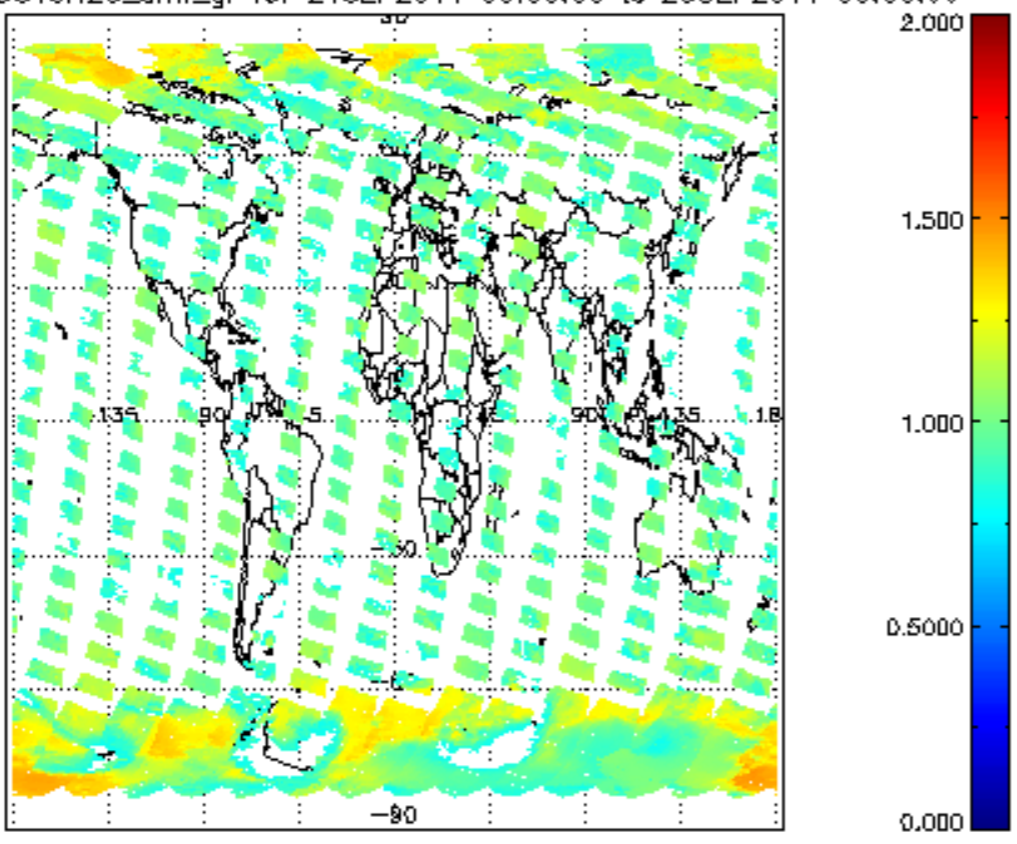
SCIOL2P_NADUV8H20_vcd for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



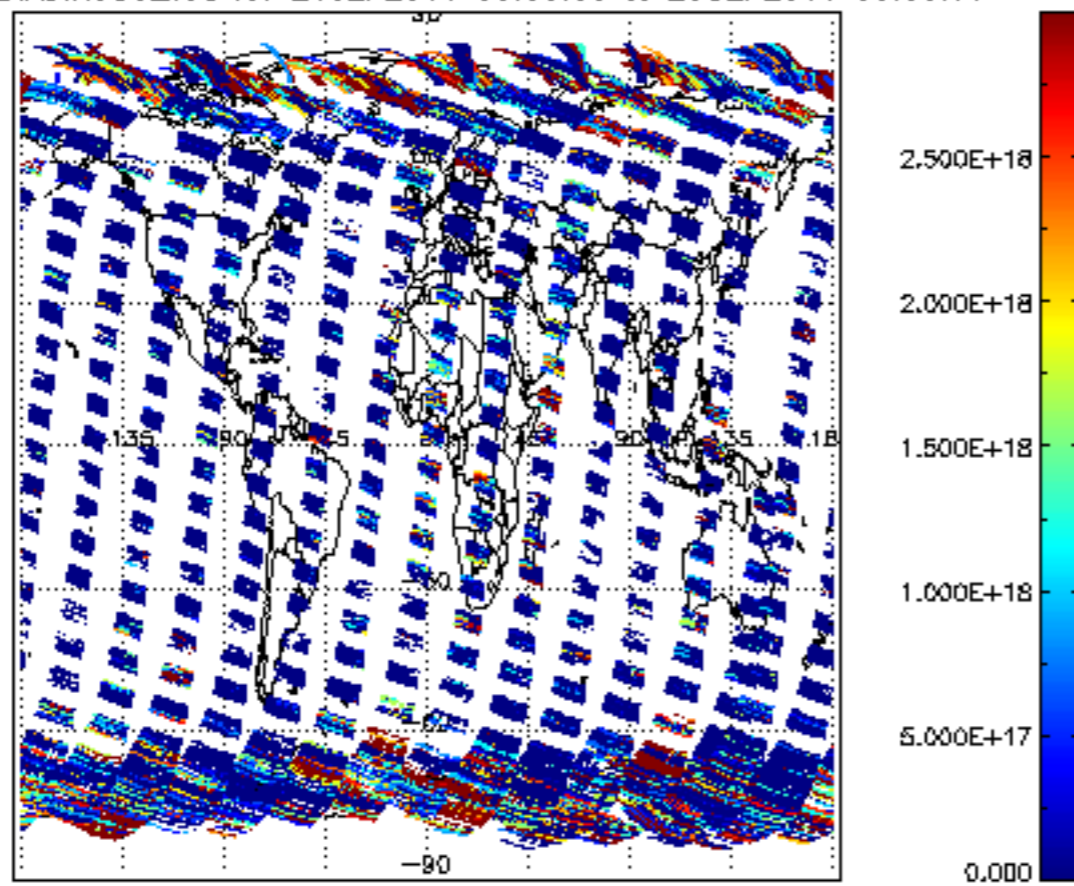
SCIOL2P_NADUV8H20_vcd_err for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



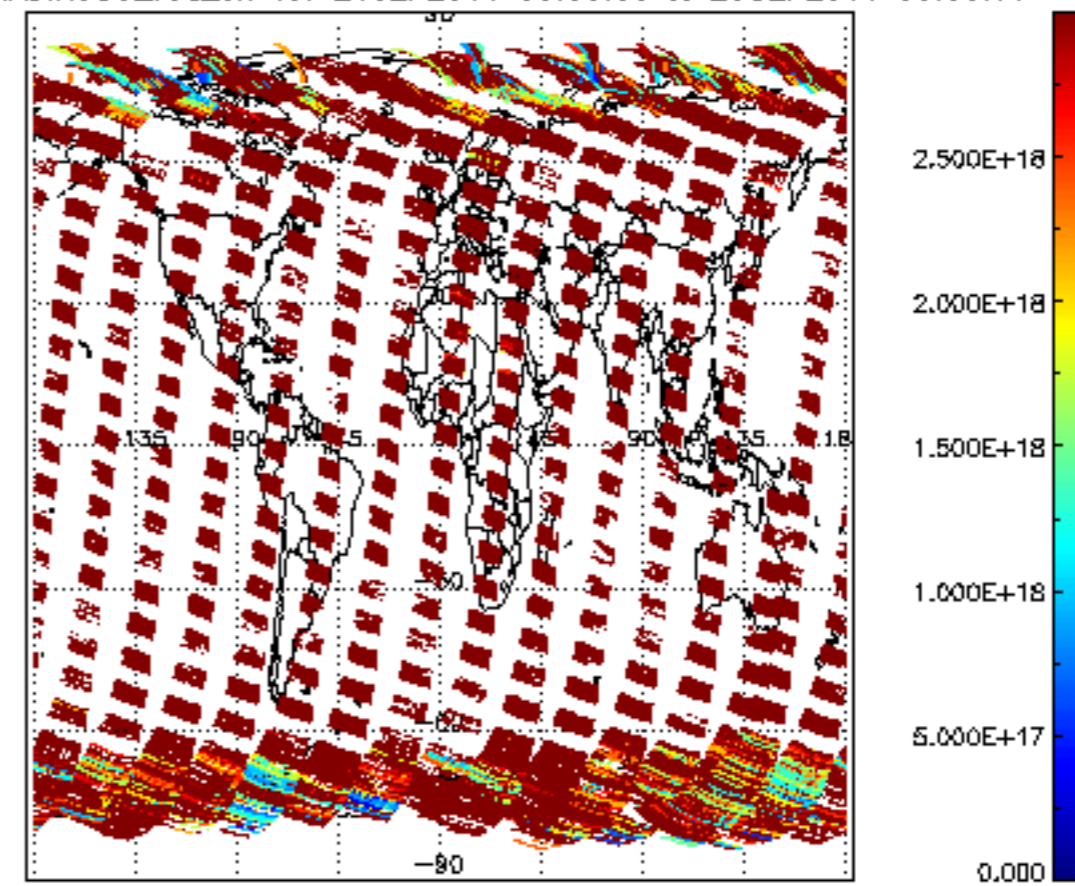
SCIOL2P_NADUV8H20_amf_gr for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



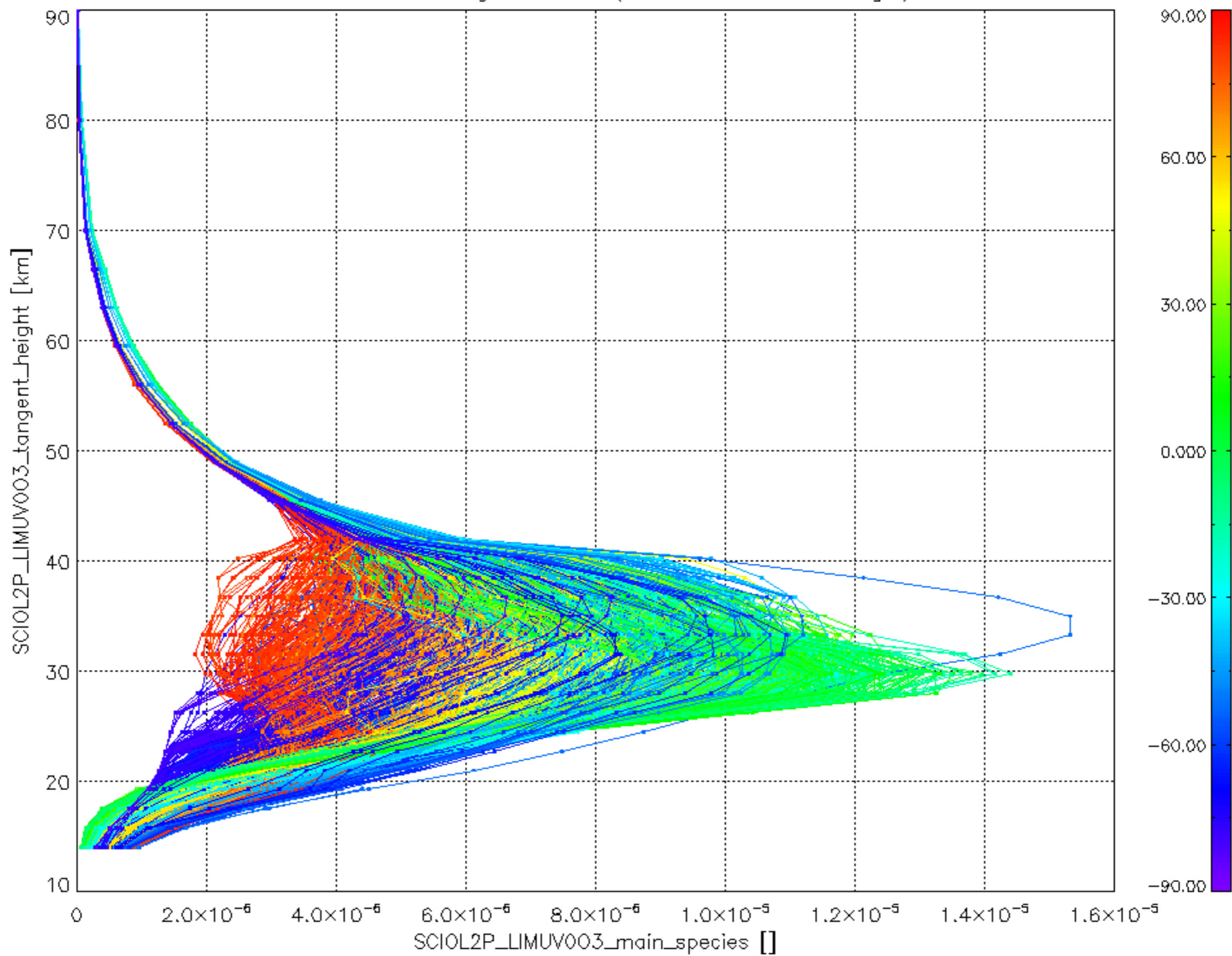
SCIOL2P_NADIR3CO_vcd for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



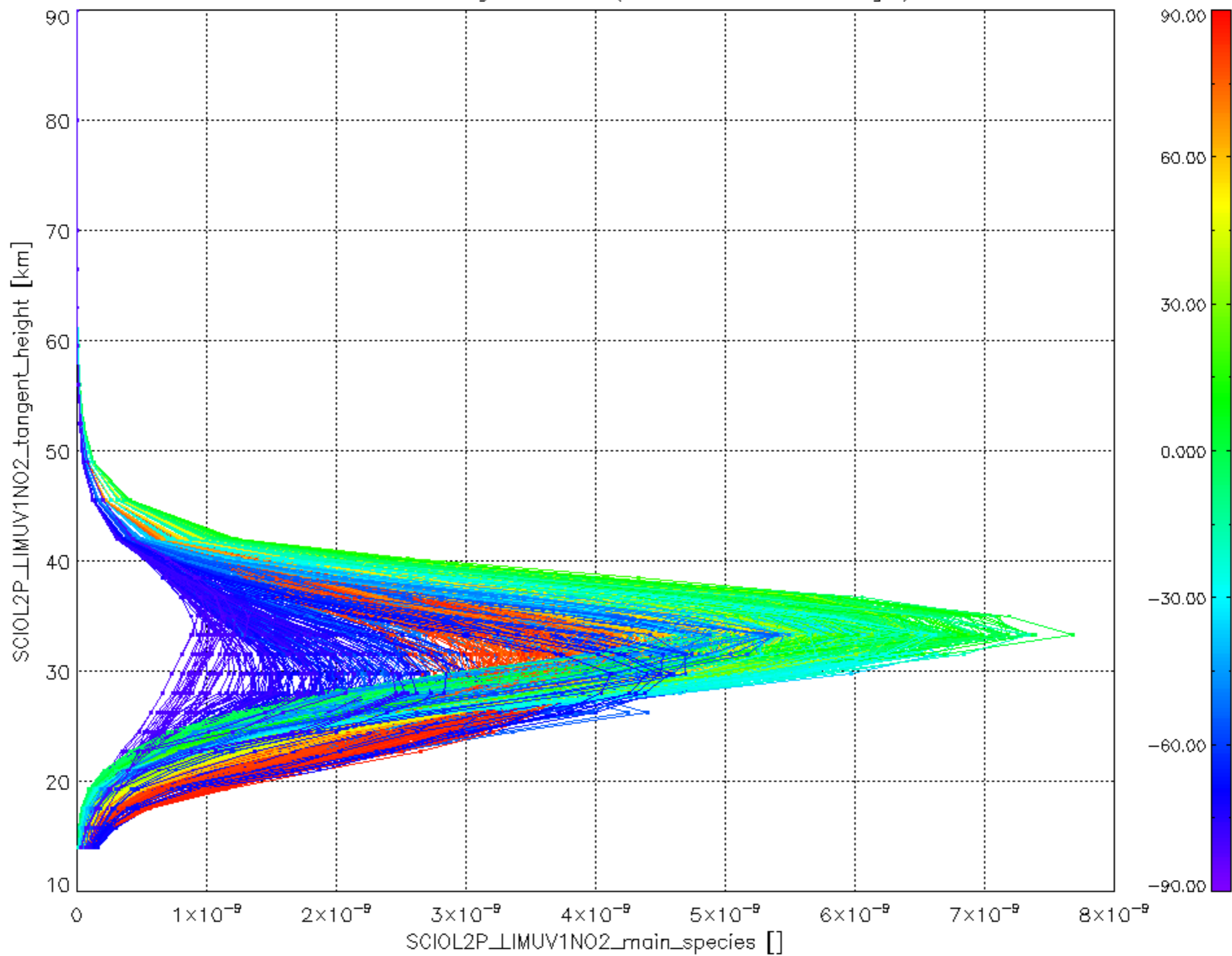
SCIOL2P_NADIR3CO_vcd_err for 24SEP2011 00:00:00 to 25SEP2011 00:00:00



Plot of SCIOL2P_LIMUV003_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



Plot of SCIOL2P_LIMUV1NO2_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).

