

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	10OCT2011 03:21:18
Data source version	SCIA-OL/5.02-W
Processing scope for products	27SEP2011 00:00:00 to 28SEP2011 00:00:00
Start time of first product within scope	26SEP2011 23:14:56
Stop time of last product within scope	27SEP2011 23:36:55
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__2PWDP A20110926_231456_000035163107_00059_50073_5170.N1	26SEP2011 23:14:56	27SEP2011 00:13:32	0	GOOD
1	SCI_OL__2PWDP A20110927_005510_000034613107_00060_50074_5171.N1	27SEP2011 00:55:10	27SEP2011 01:52:52	0	GOOD
2	SCI_OL__2PWDP A20110927_023524_000035163107_00061_50075_5172.N1	27SEP2011 02:35:24	27SEP2011 03:34:01	0	GOOD
3	SCI_OL__2PWDP A20110927_041539_000034613107_00062_50076_5173.N1	27SEP2011 04:15:39	27SEP2011 05:13:21	0	GOOD
4	SCI_OL__2PWDP A20110927_055554_000035163107_00063_50077_5174.N1	27SEP2011 05:55:54	27SEP2011 06:54:30	0	GOOD

5	SCI_OL__2PWDP	A20110927_073608_000034613107_00064_50078_5175.N1	27SEP2011 07:36:08	27SEP2011 08:33:50	0	GOOD
6	SCI_OL__2PWDP	A20110927_091623_000035163107_00065_50079_5176.N1	27SEP2011 09:16:23	27SEP2011 10:14:59	0	GOOD
7	SCI_OL__2PWDP	A20110927_105637_000034613107_00066_50080_5181.N1	27SEP2011 10:56:37	27SEP2011 11:54:19	0	GOOD
8	SCI_OL__2PWDP	A20110927_123651_000035163107_00067_50081_5180.N1	27SEP2011 12:36:51	27SEP2011 13:35:28	0	GOOD
9	SCI_OL__2PWDP	A20110927_141706_000034613107_00068_50082_5179.N1	27SEP2011 14:17:06	27SEP2011 15:14:48	0	GOOD
10	SCI_OL__2PWDP	A20110927_155720_000035163107_00069_50083_5177.N1	27SEP2011 15:57:20	27SEP2011 16:55:57	0	GOOD
11	SCI_OL__2PWDP	A20110927_173825_000034633107_00070_50084_5178.N1	27SEP2011 17:38:25	27SEP2011 18:36:09	0	GOOD
12	SCI_OL__2PWDP	A20110927_191803_000034473107_00071_50085_5182.N1	27SEP2011 19:18:03	27SEP2011 20:15:30	0	GOOD
13	SCI_OL__2PWDP	A20110927_205804_000034613107_00072_50086_5183.N1	27SEP2011 20:58:04	27SEP2011 21:55:46	0	GOOD
14	SCI_OL__2PWDP	A20110927_223818_000035163107_00073_50087_5184.N1	27SEP2011 22:38:18	27SEP2011 23:36:55	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: 162631

Total number of cloud data DSRs with good quality flag (=0): 162631 (100.0 %)

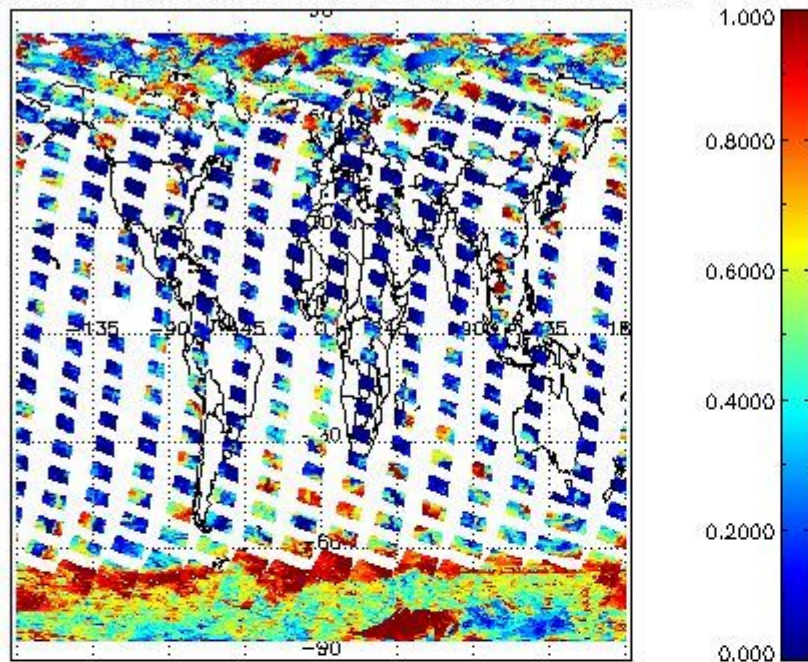
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	162631	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	162631	0.16527	0.12500	0.12500	0.25000	0.058413	s
CL_FRAC	162631	0.43123	0.41303	0.0000	1.0000	0.32683	
CL_FRAC_ERR	162631	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	162631	5.2886	4.0000	4.0000	8.0000	1.8692	
PMD_READ_CL[0]	162631	0.48194	0.0000	0.0000	8.0000	1.2333	-
PMD_READ_CL[1]	162631	1.3793	0.0000	0.0000	8.0000	2.6373	-
CL_TOP_HEIGHT	128623	3.5736	1.9809	0.0000	17.000	4.0663	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	128623	62.040	88.086	0.0000	101.00	42.316	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	162631	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	162631	11001101	11000100	11000000	11100000	3551.1	
AERO_ABSO_IND	162631	0.15639	0.0000	0.0000	7.4802	0.39223	
AERO_IND_DIAG	162631	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	162631	01010100	00000000	00000000	11000000	24406.	

Time and geolocation plots:

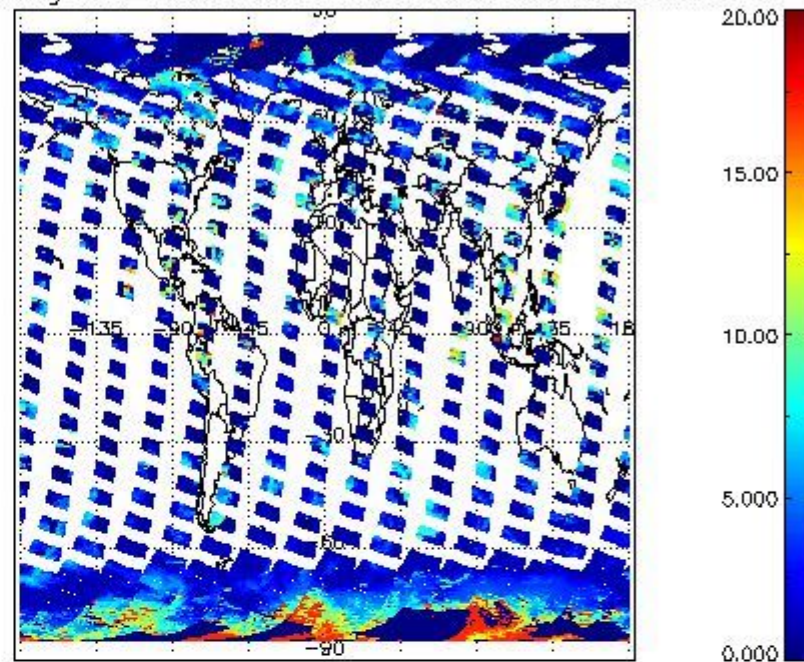
Plots are available for the following parameters:

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

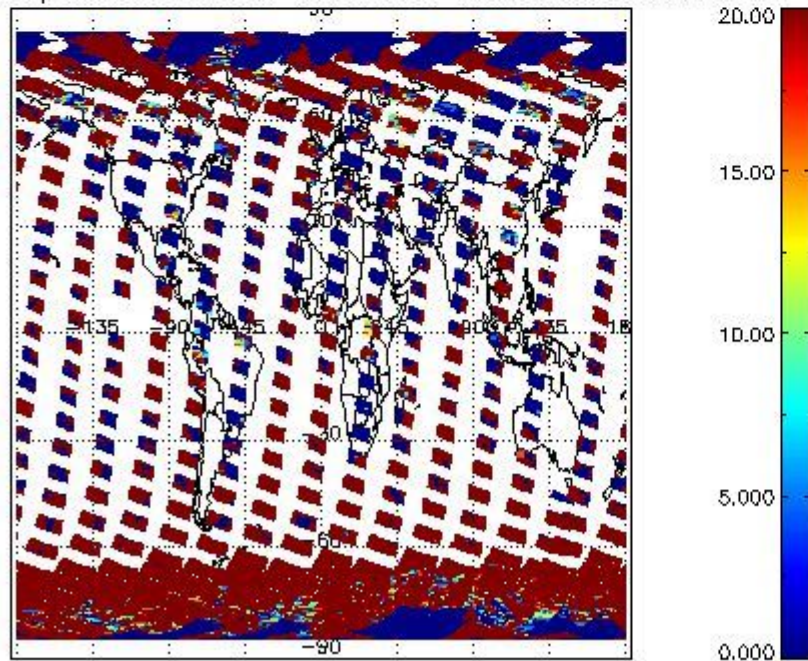
cL_frac for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



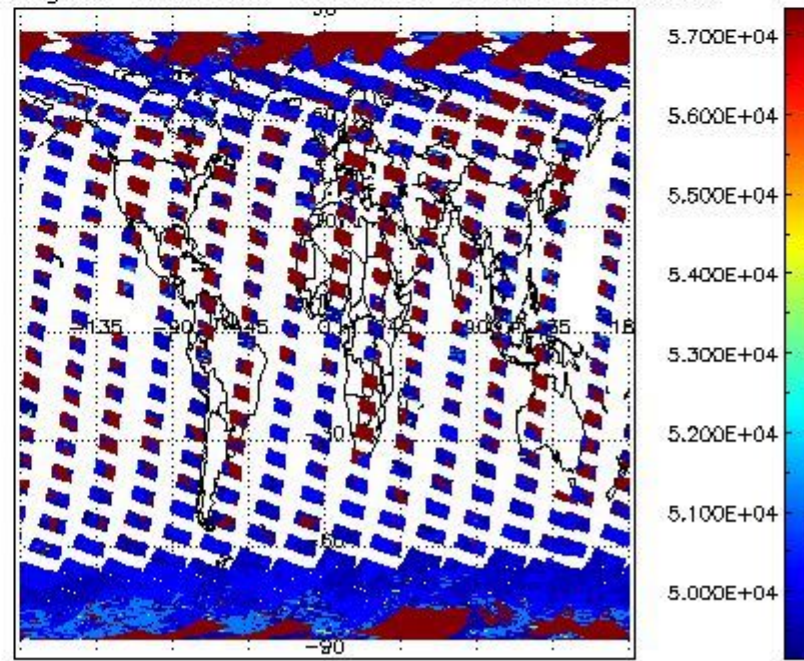
cL_top_height for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



cL_opt_depth for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



cloud_flags for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



2.2.2 Nadir

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

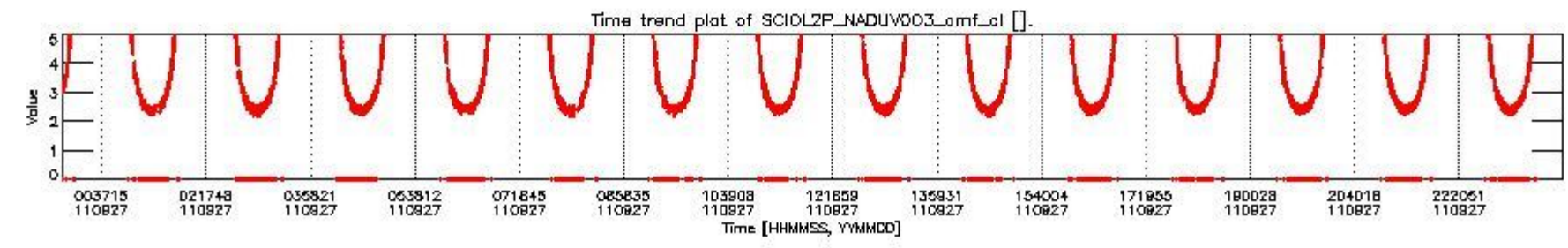
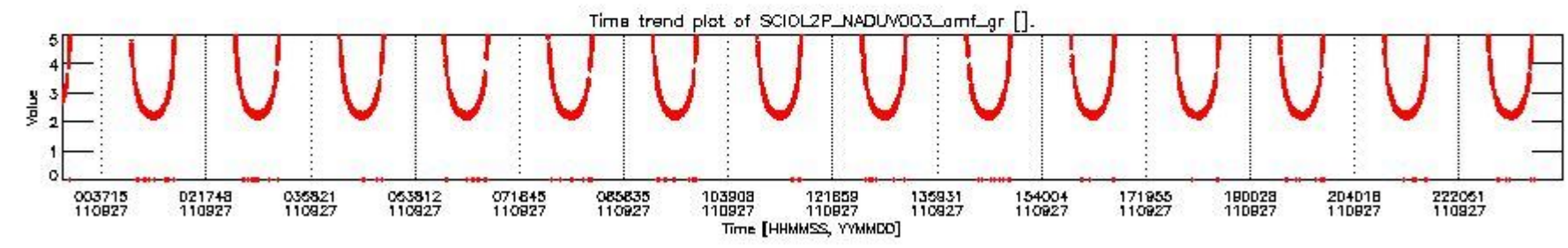
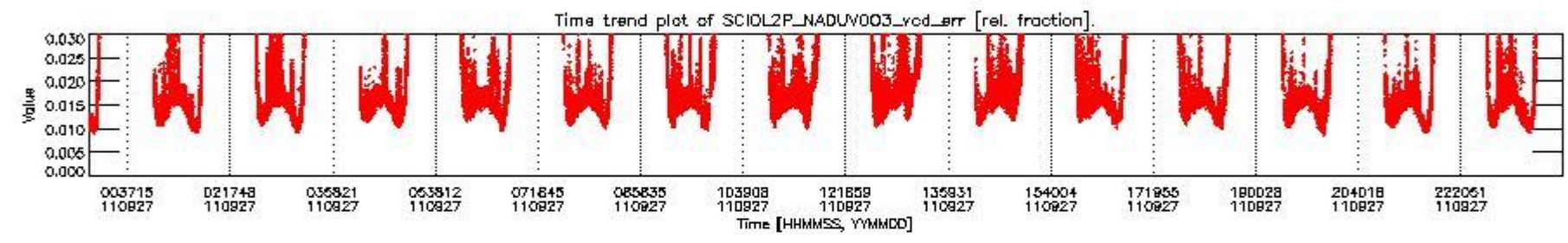
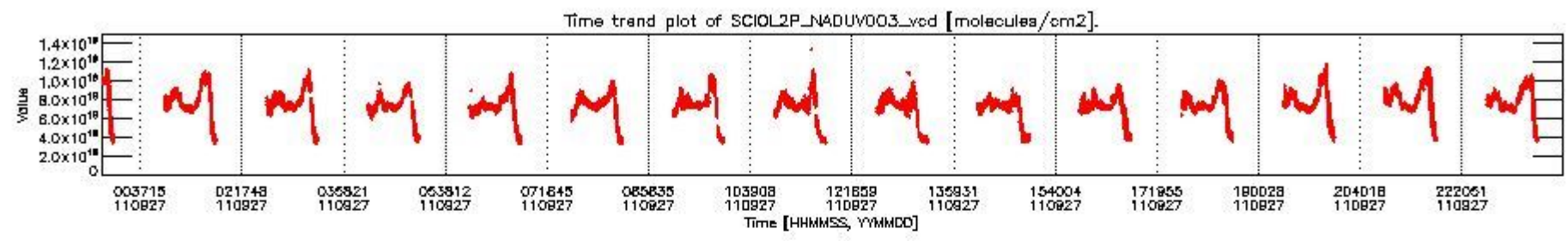
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

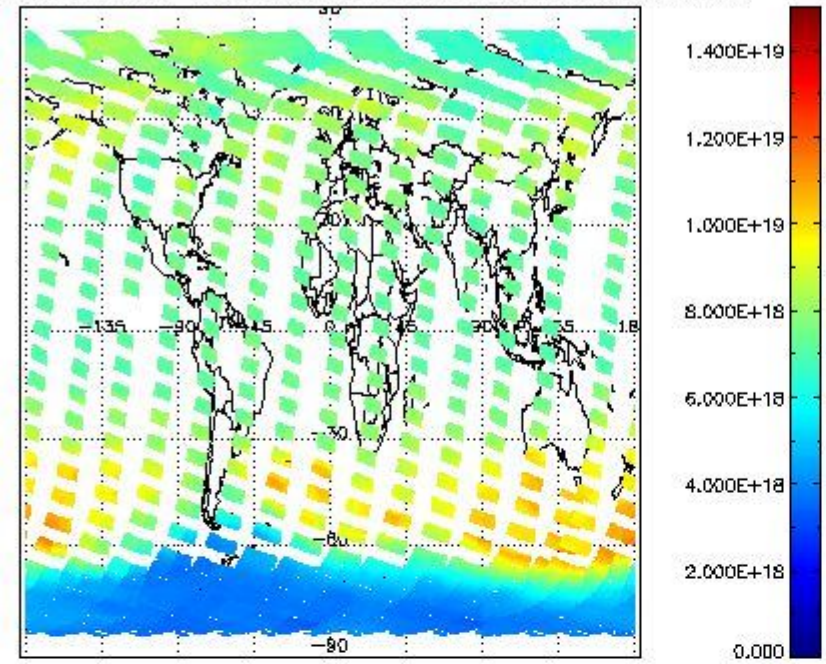
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

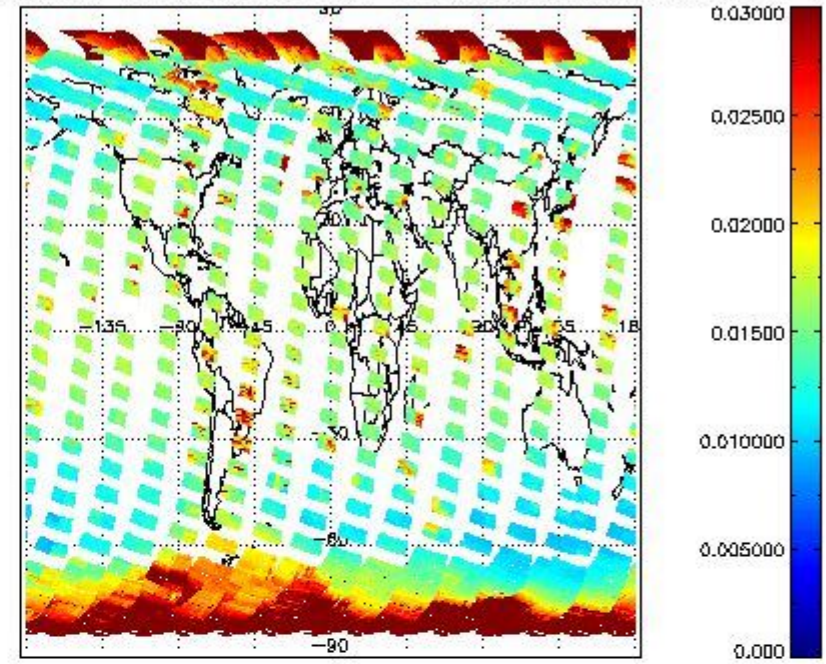
2.2.2.1 O3 (UV0)



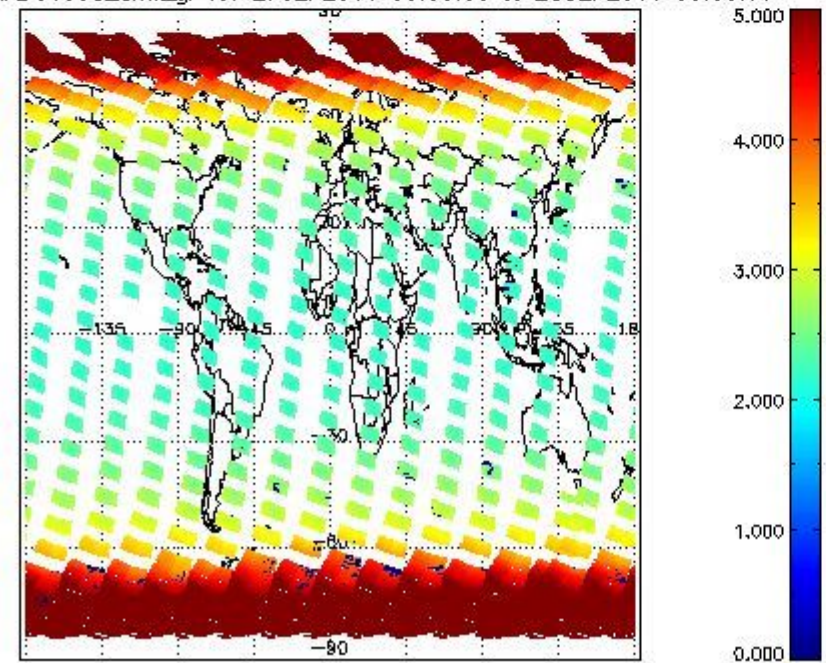
SCIOL2P_NADUV003_vcd for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



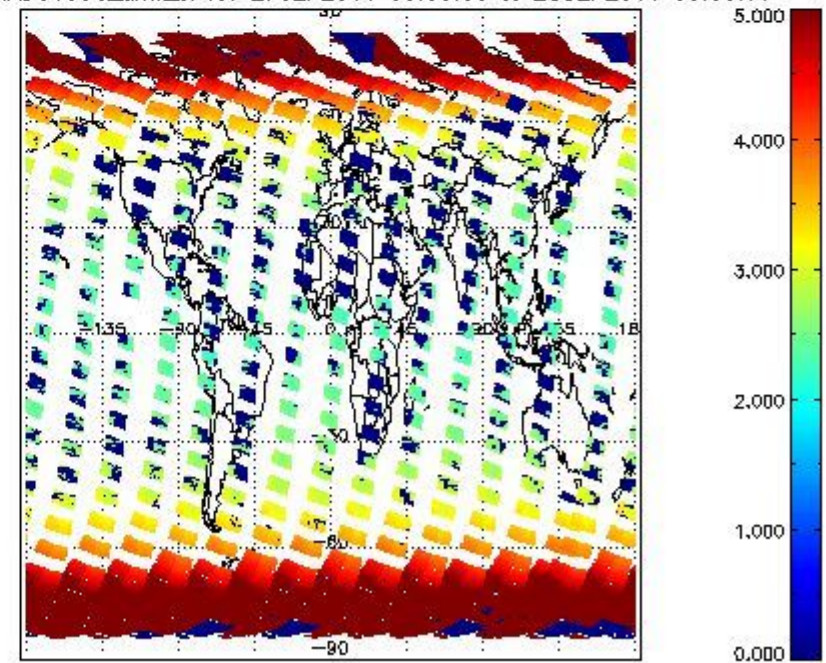
SCIOL2P_NADUV003_vcd_err for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



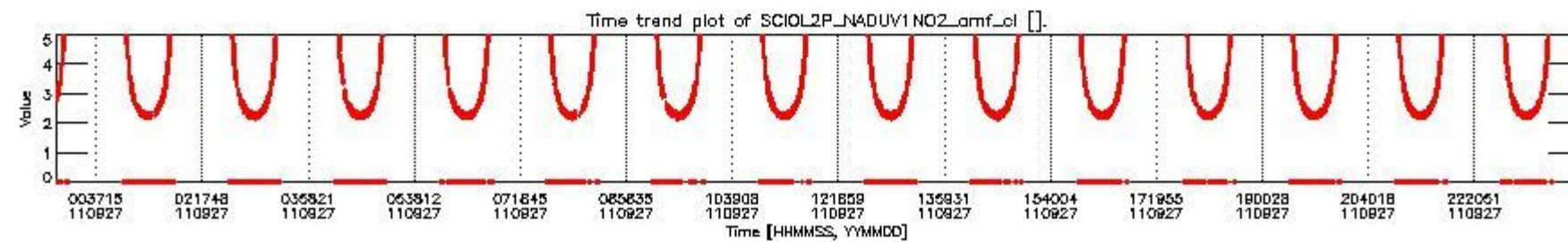
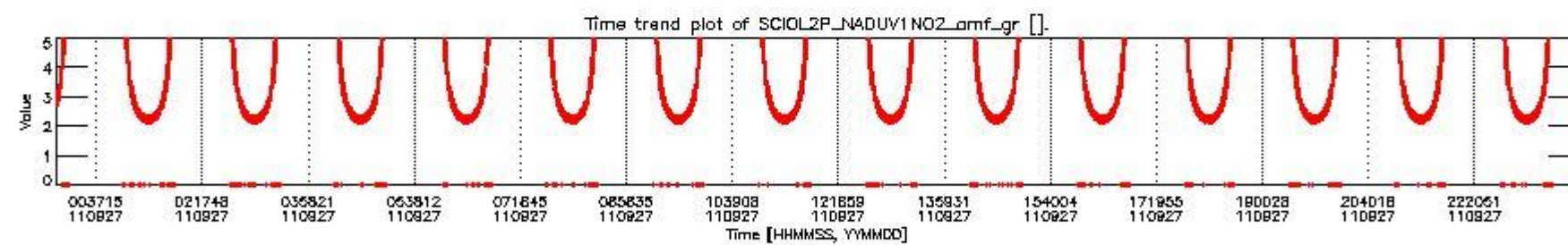
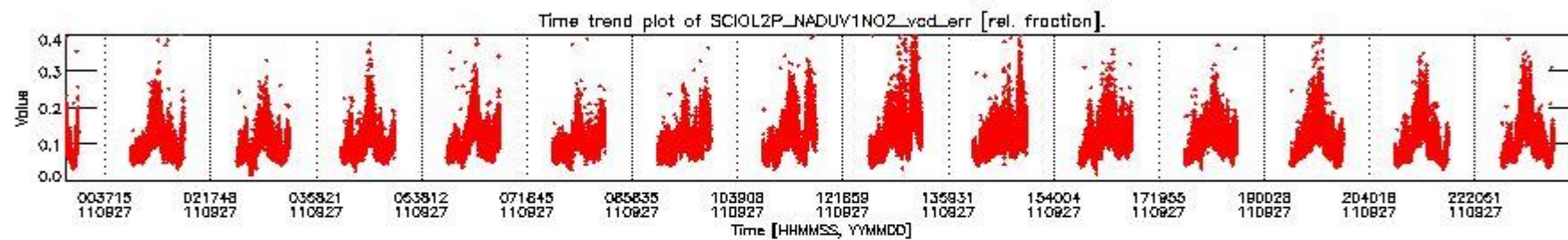
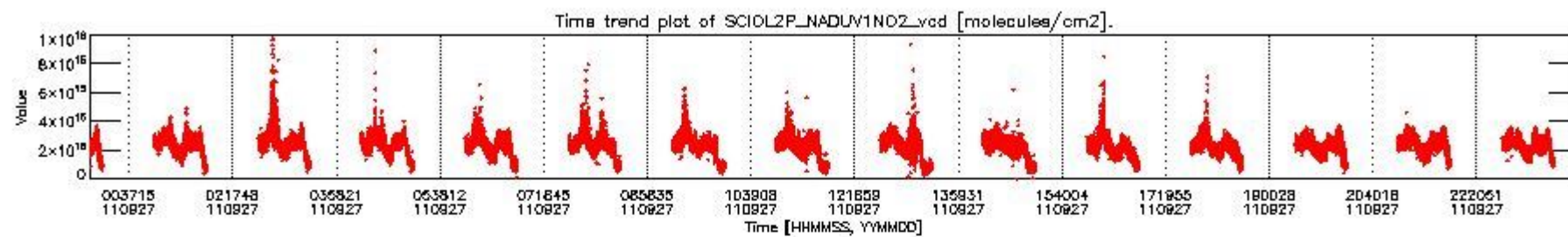
SCIOL2P_NADUV003_amf_gr for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



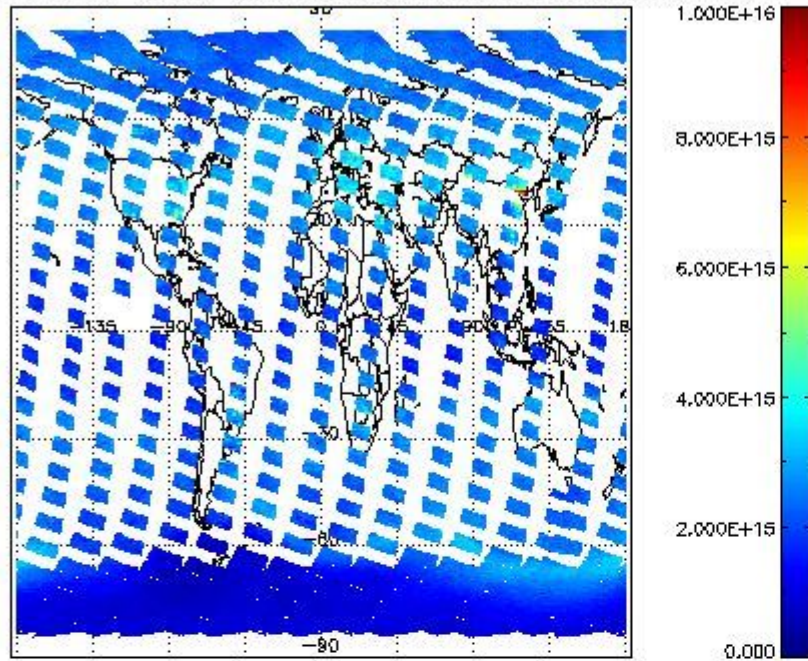
SCIOL2P_NADUV003_amf_cl for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



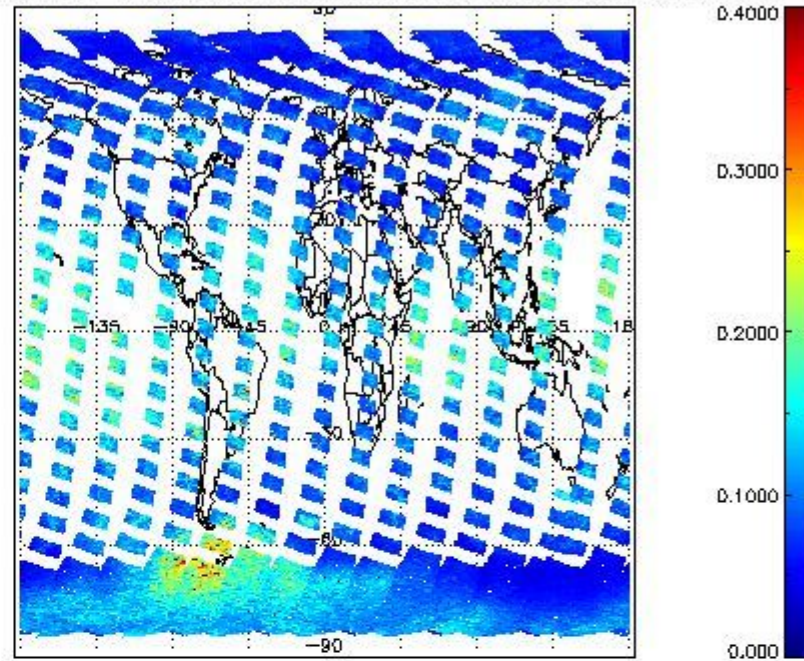
2.2.2.2 NO2 (UV1)



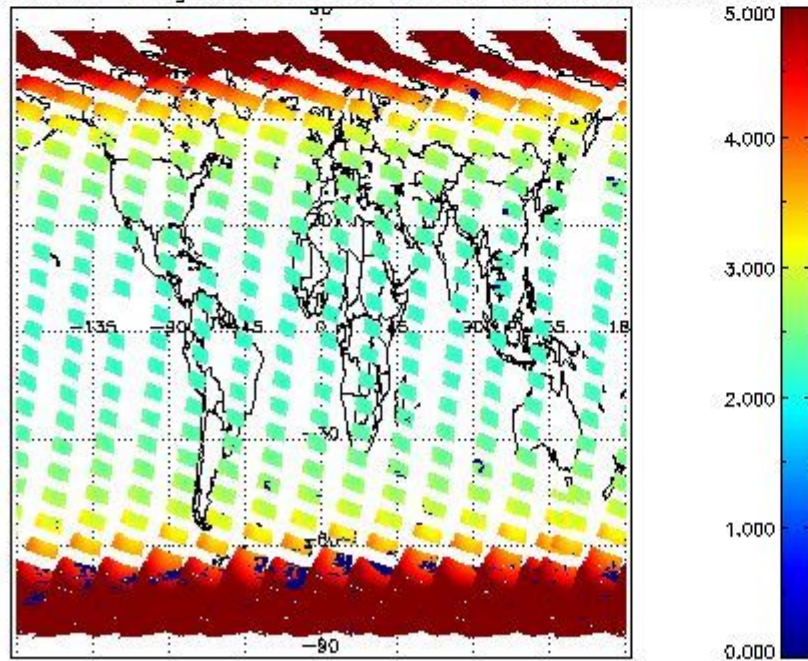
SCIOL2P_NADUV1NO2_vcd for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



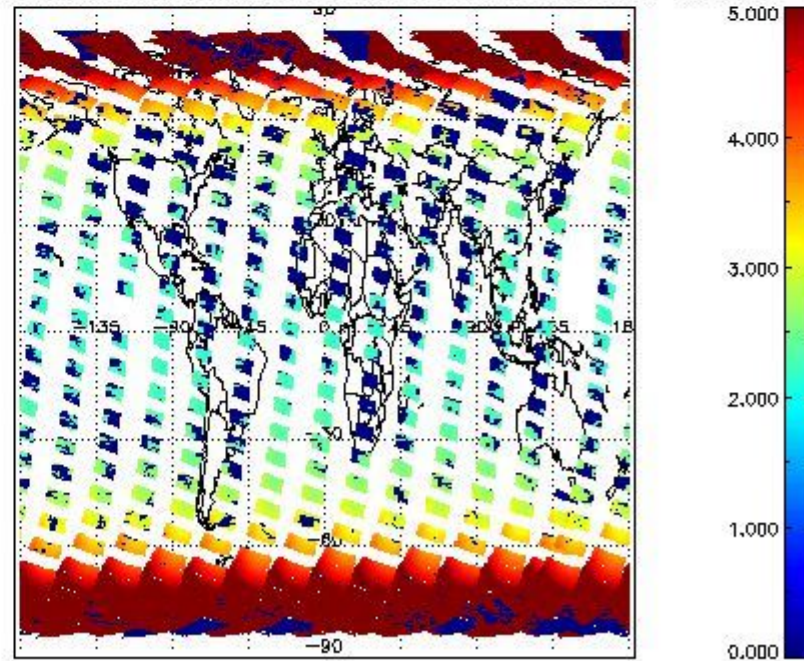
SCIOL2P_NADUV1NO2_vcd_err for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



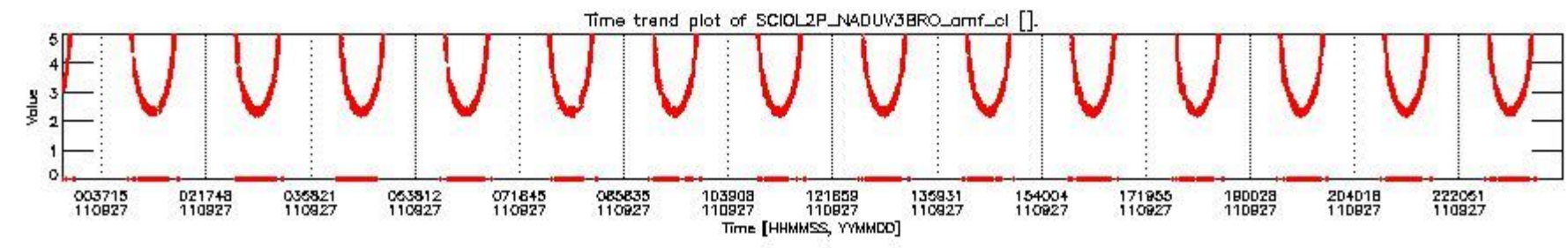
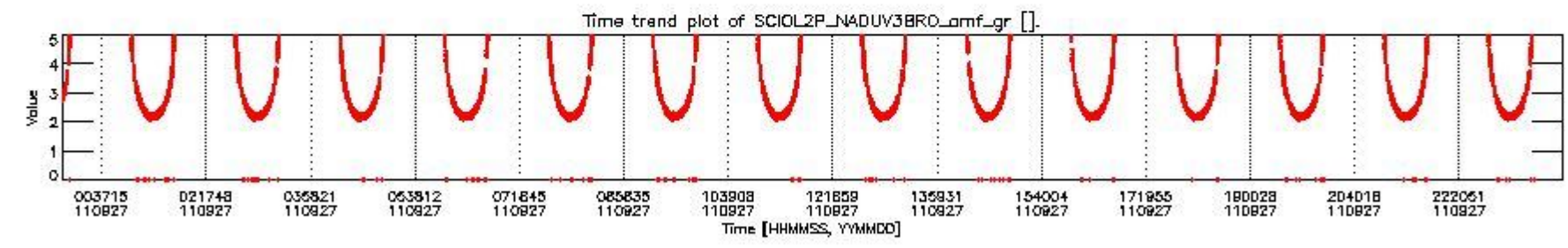
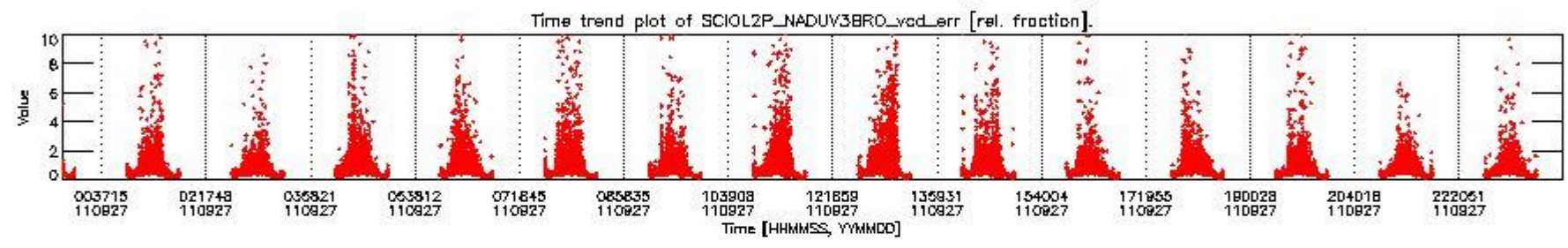
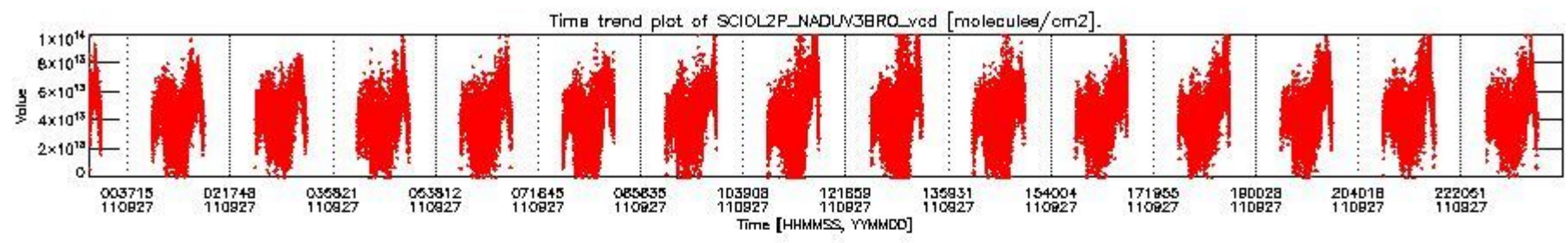
SCIOL2P_NADUV1NO2_amf_gr for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



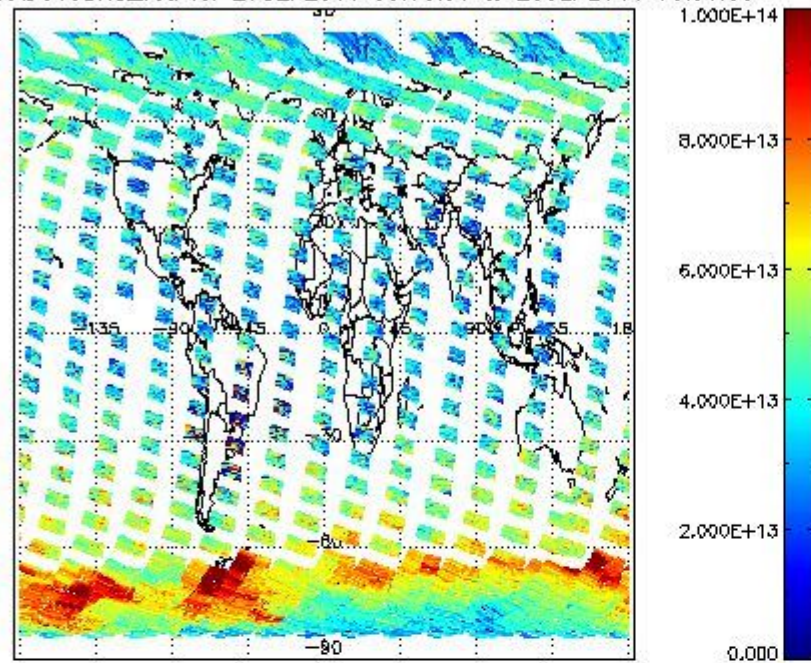
SCIOL2P_NADUV1NO2_amf_cl for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



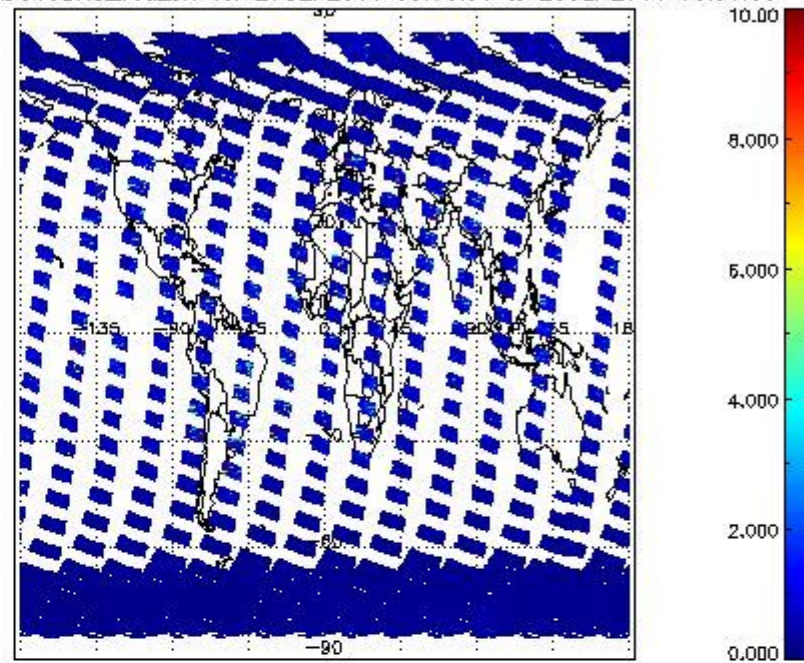
2.2.2.3 BrO (UV3)



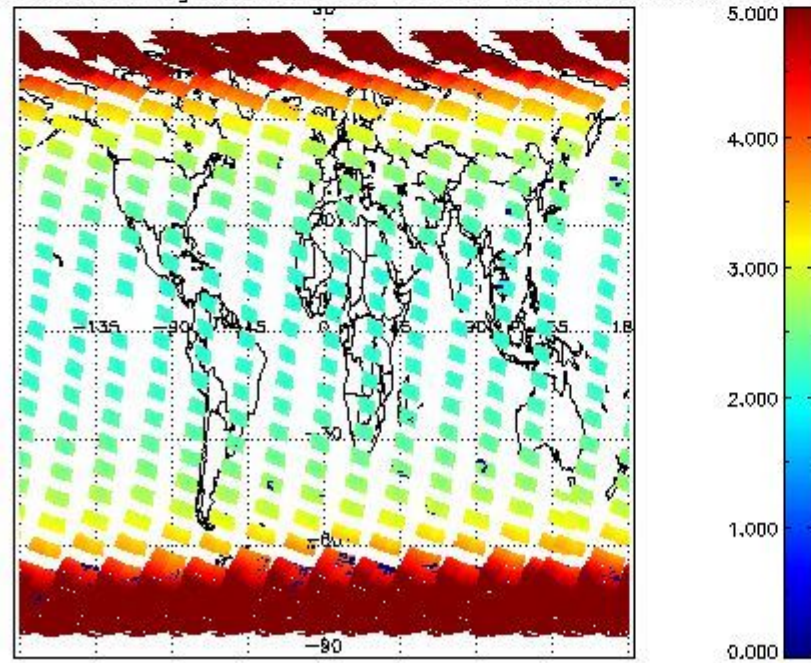
SCIOL2P_NADUV3BRO_vcd for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



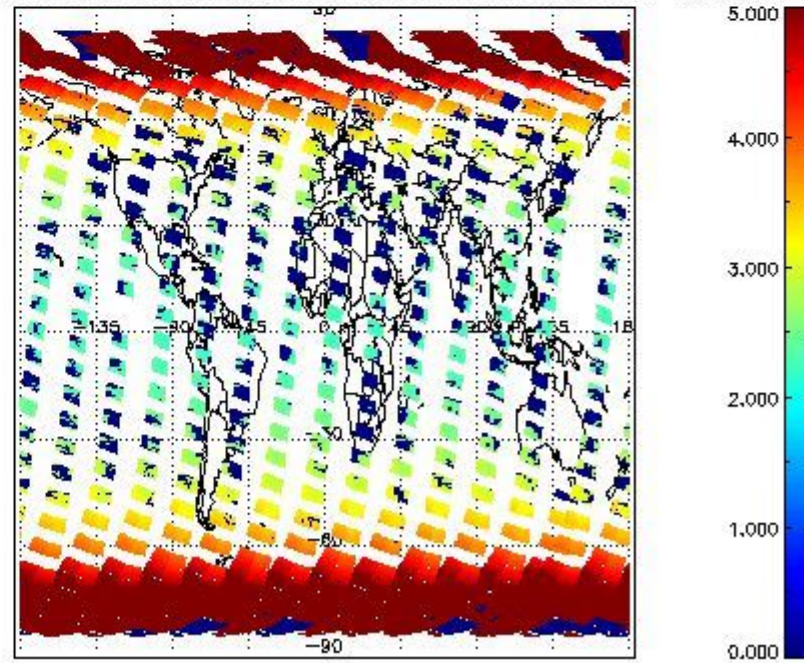
SCIOL2P_NADUV3BRO_vcd_err for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



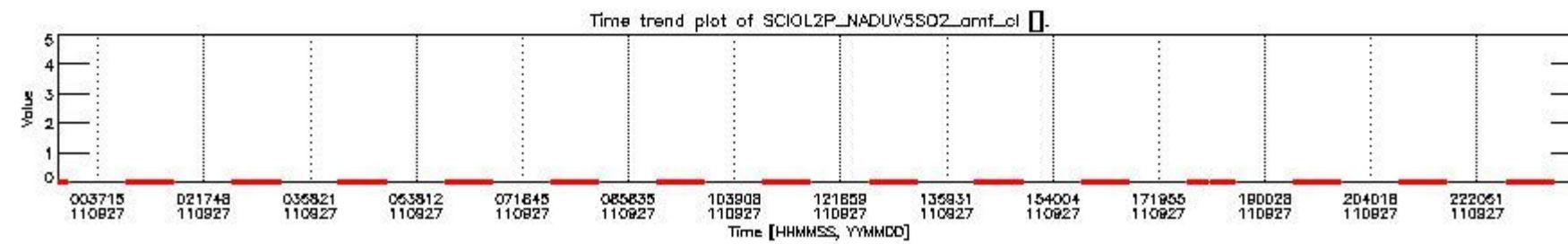
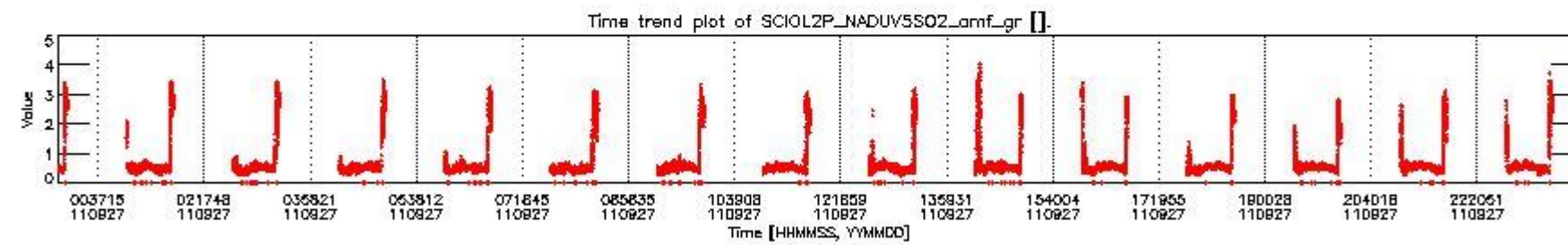
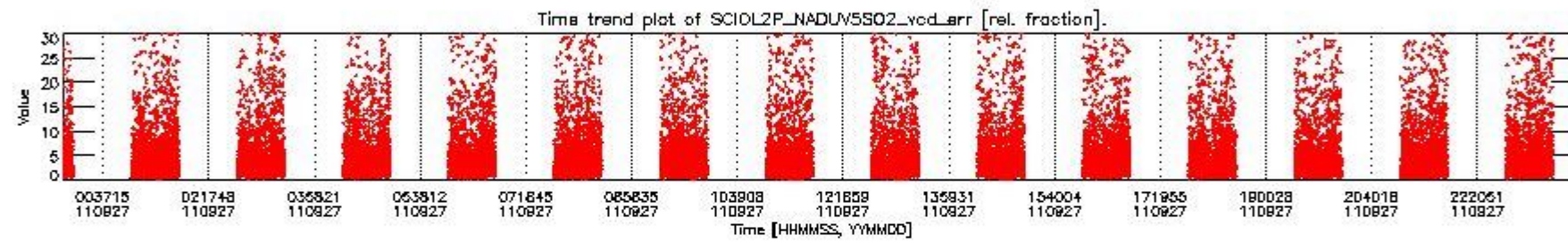
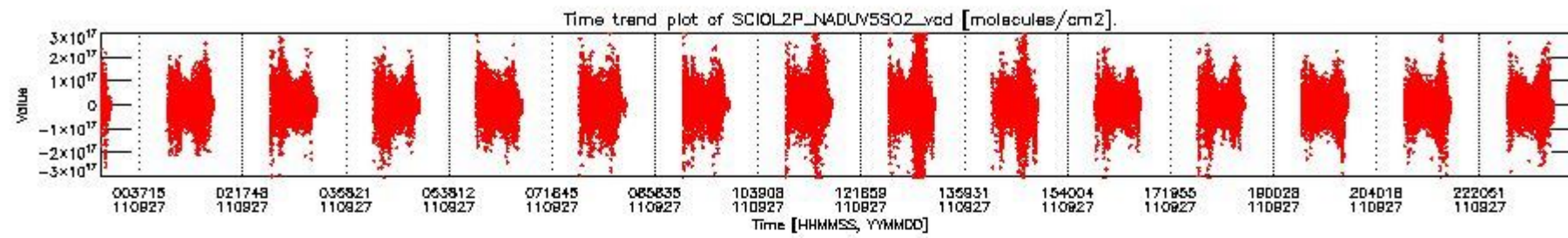
SCIOL2P_NADUV3BRO_amf_gr for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



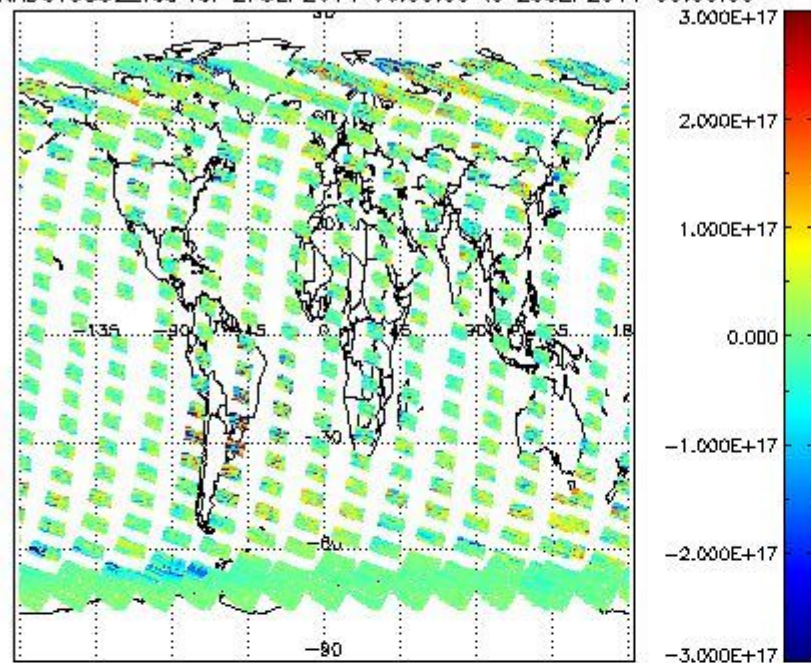
SCIOL2P_NADUV3BRO_amf_cl for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



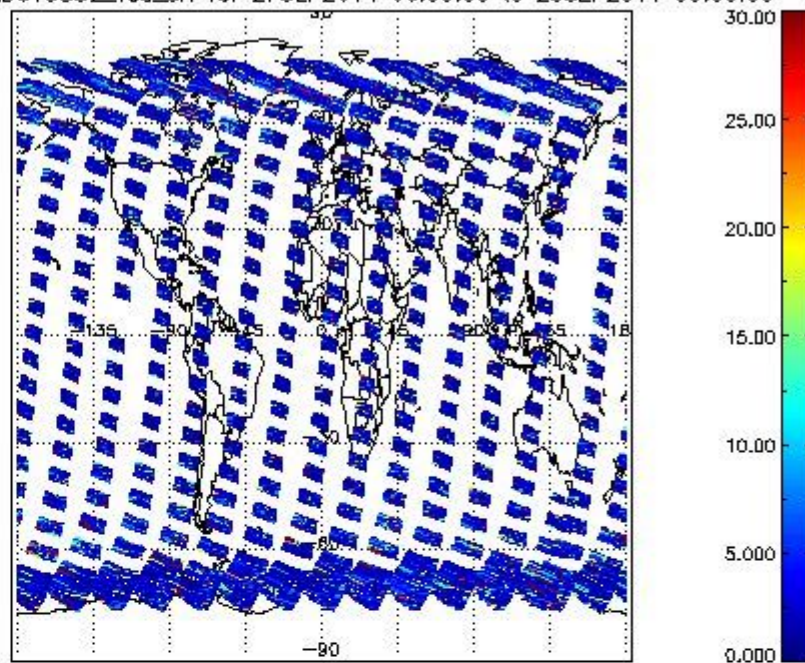
2.2.2.4 SO2 (UV5)



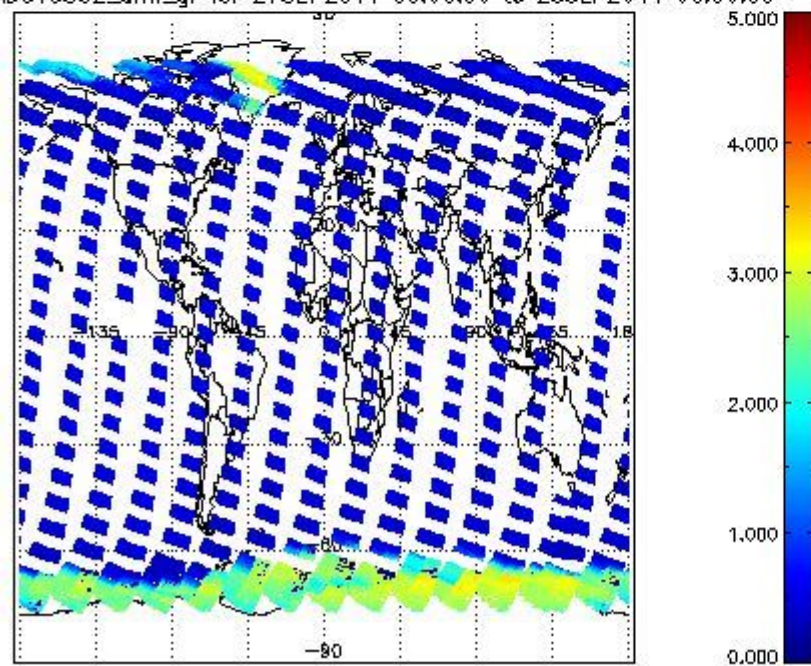
SCIOL2P_NADUV5S02_vcd for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



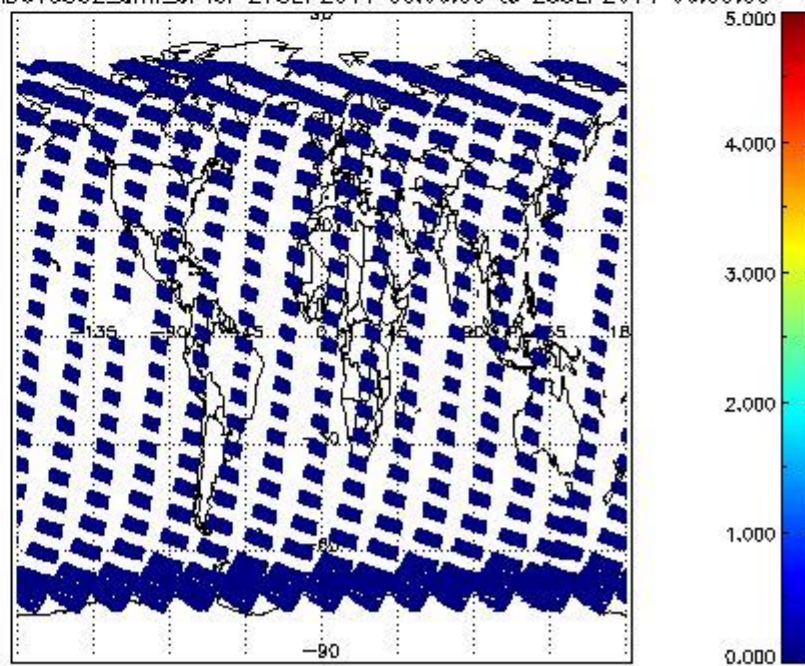
SCIOL2P_NADUV5S02_vcd_err for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



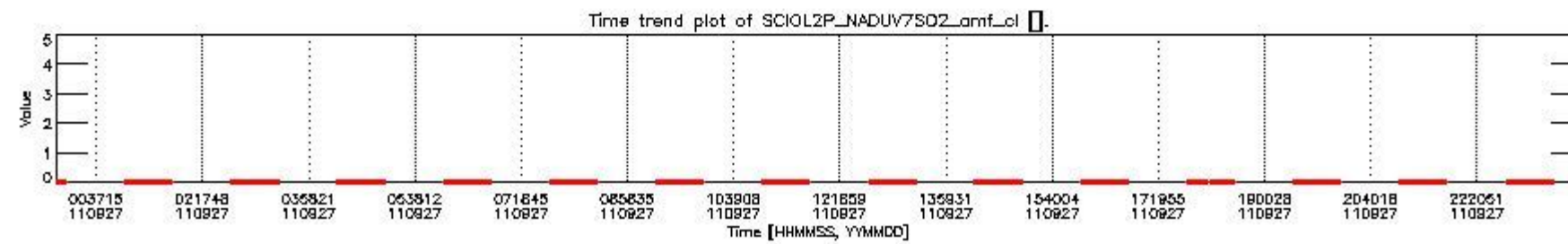
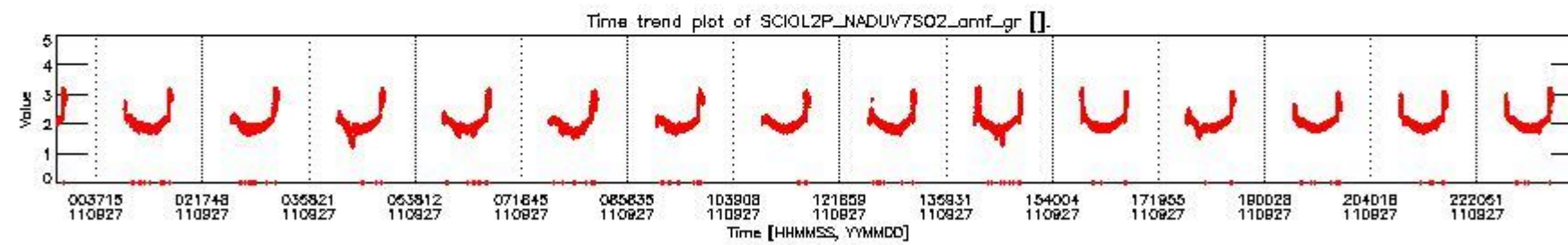
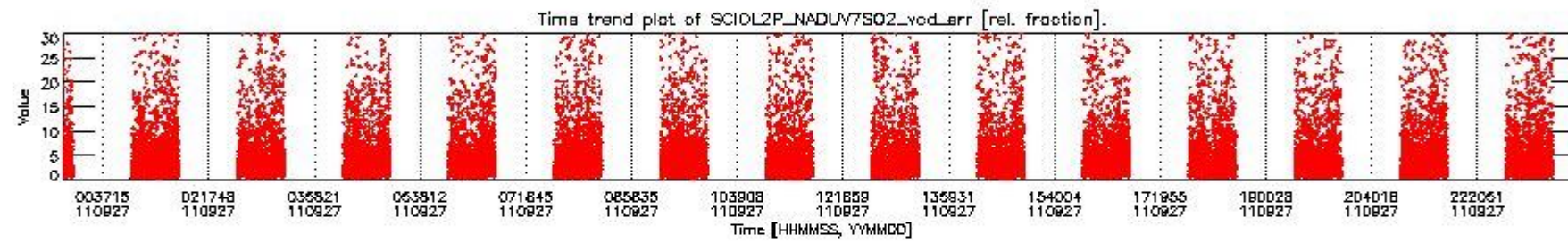
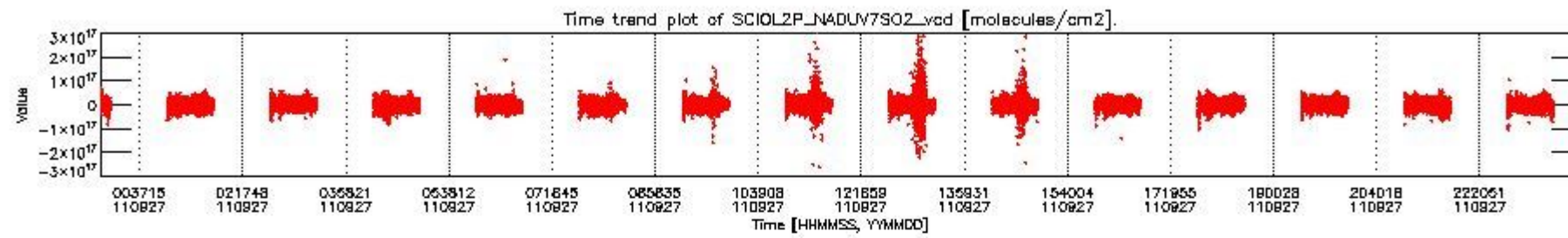
SCIOL2P_NADUV5S02_amf_gr for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



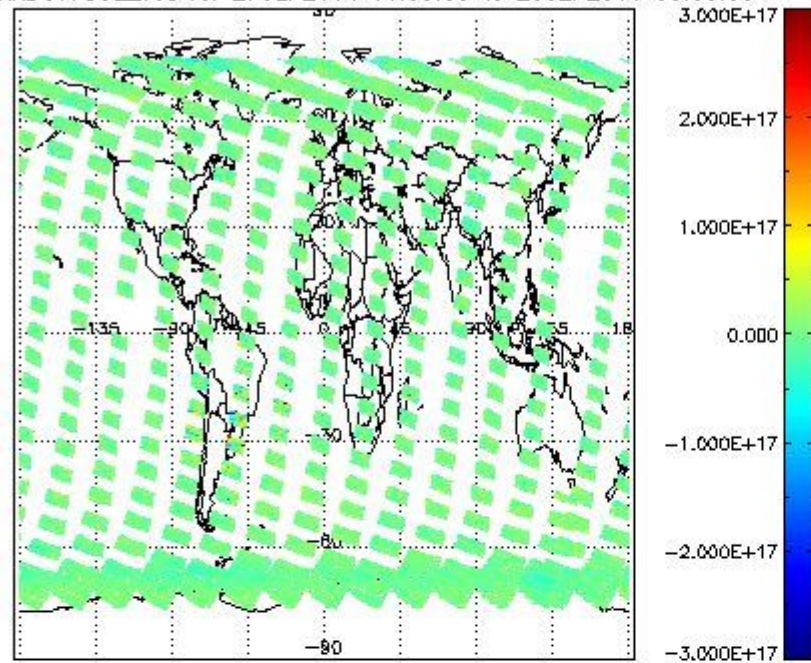
SCIOL2P_NADUV5S02_amf_cl for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



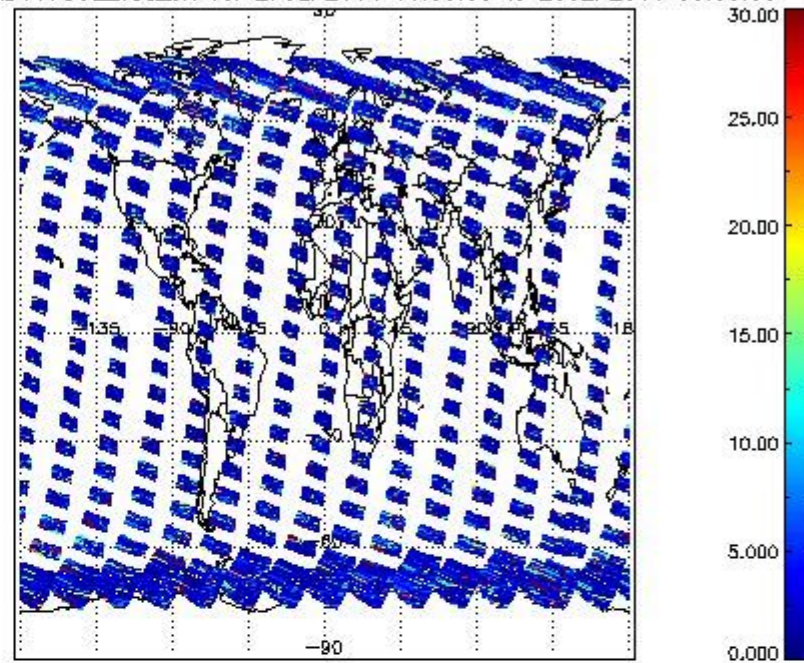
2.2.2.5 SO2 (UV7)



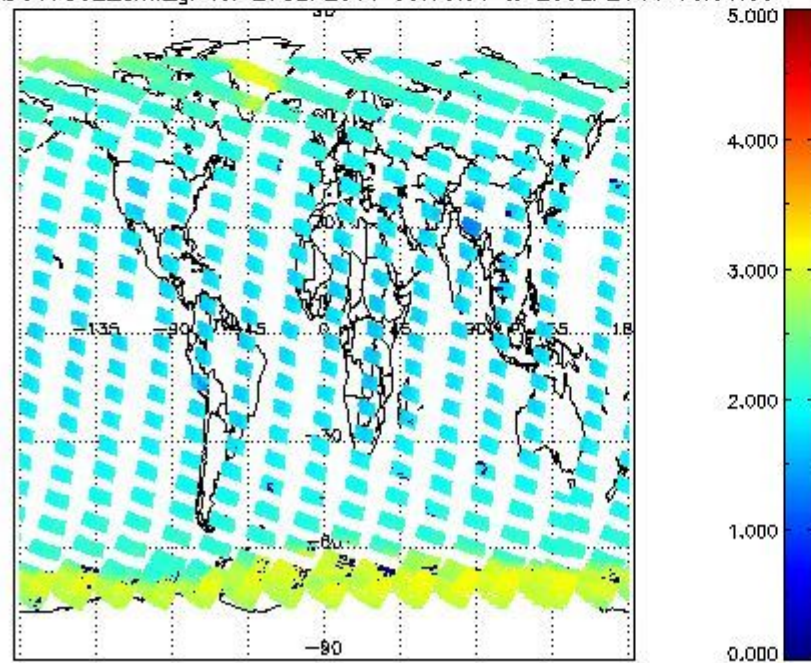
SCIOL2P_NADUV7S02_vcd for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



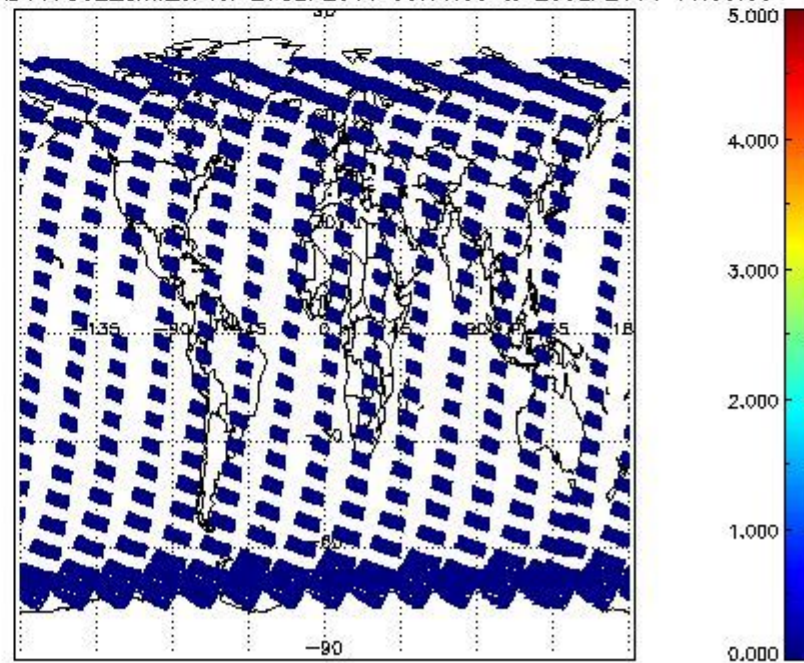
SCIOL2P_NADUV7S02_vcd_err for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



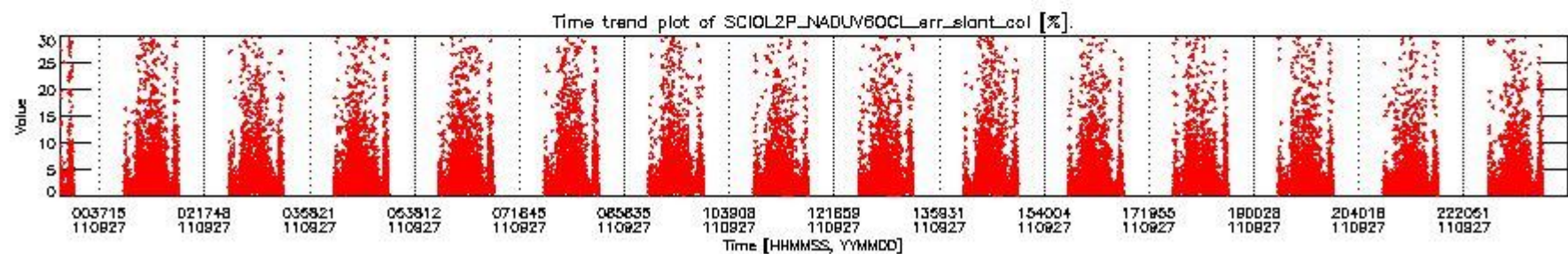
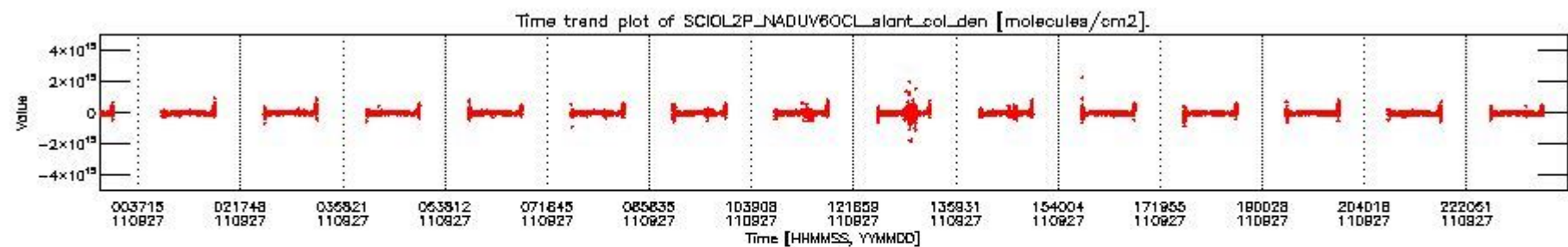
SCIOL2P_NADUV7S02_amf_gr for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



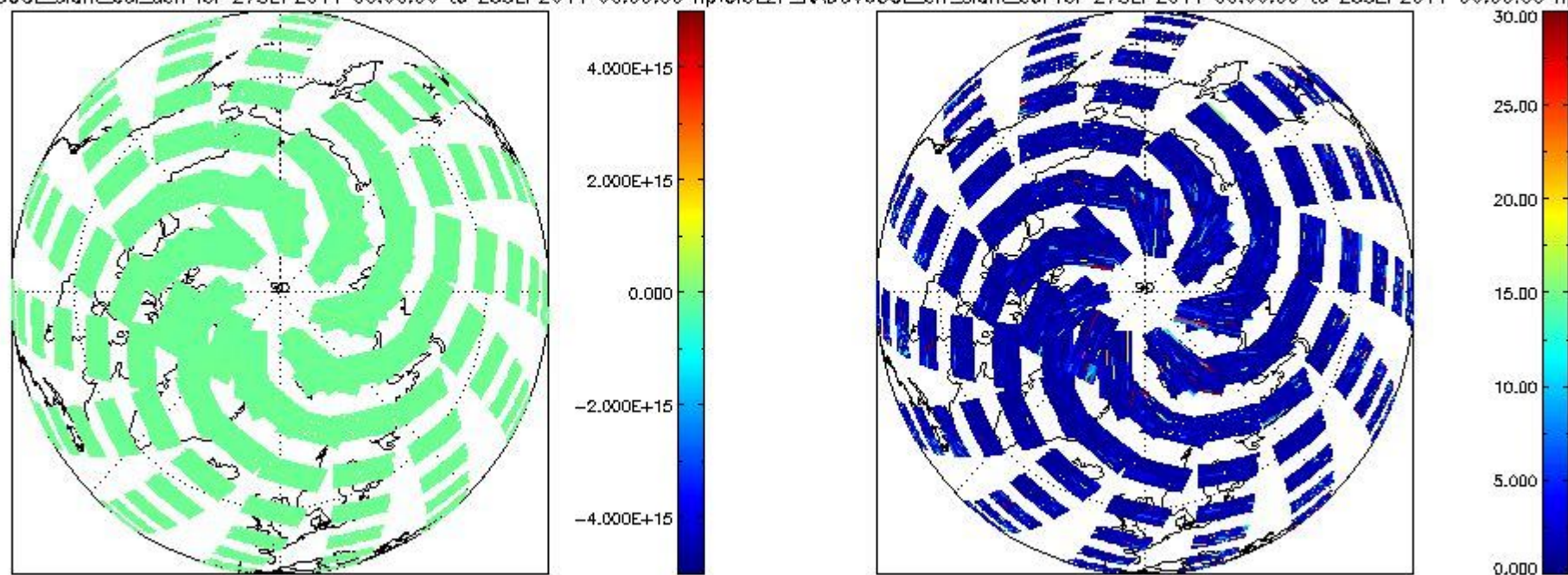
SCIOL2P_NADUV7S02_amf_cl for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



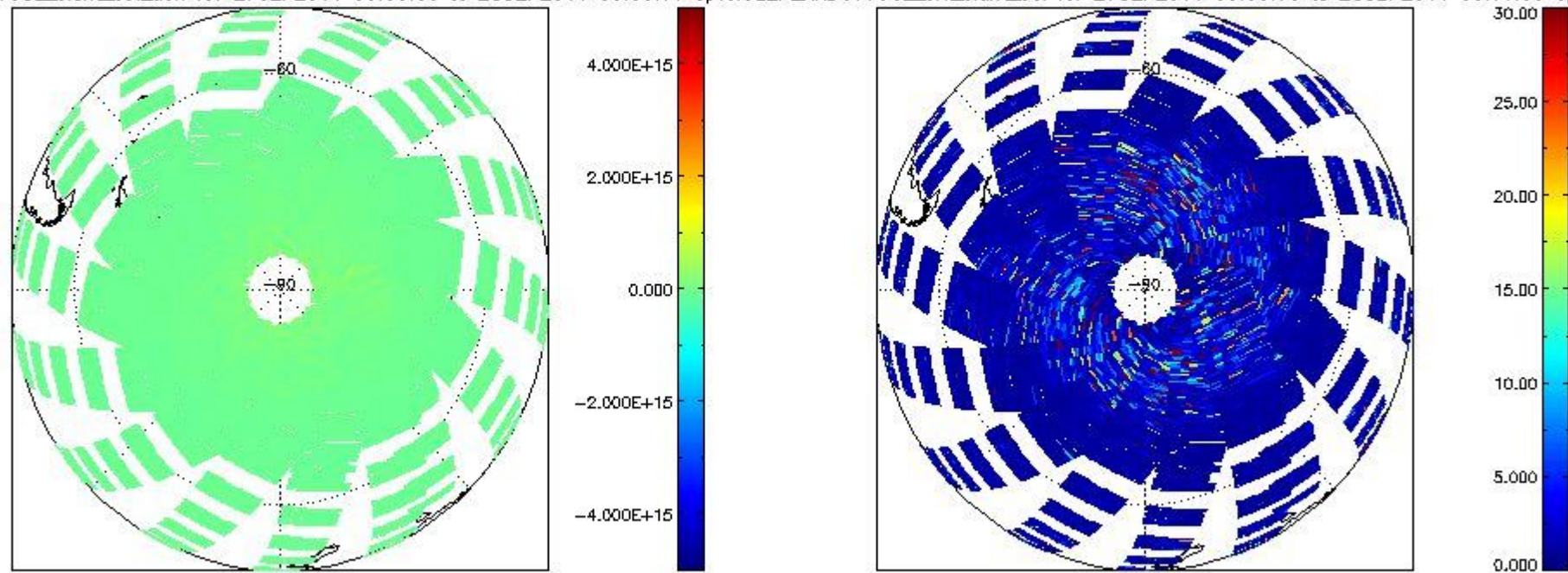
2.2.2.6 OCIO (UV6)



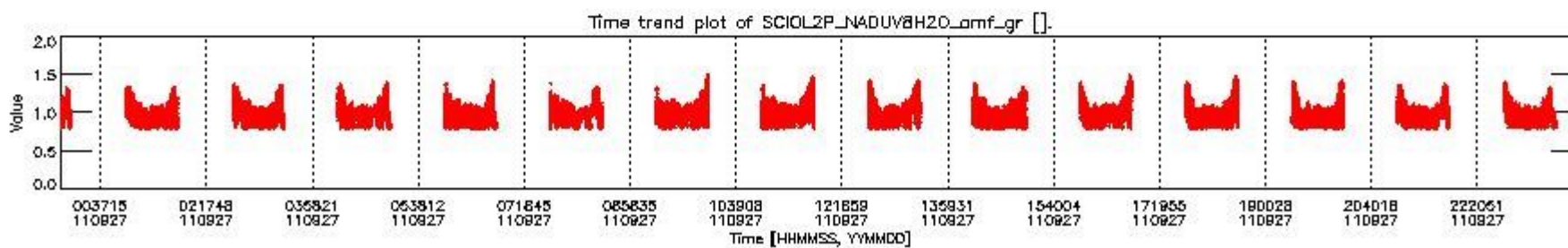
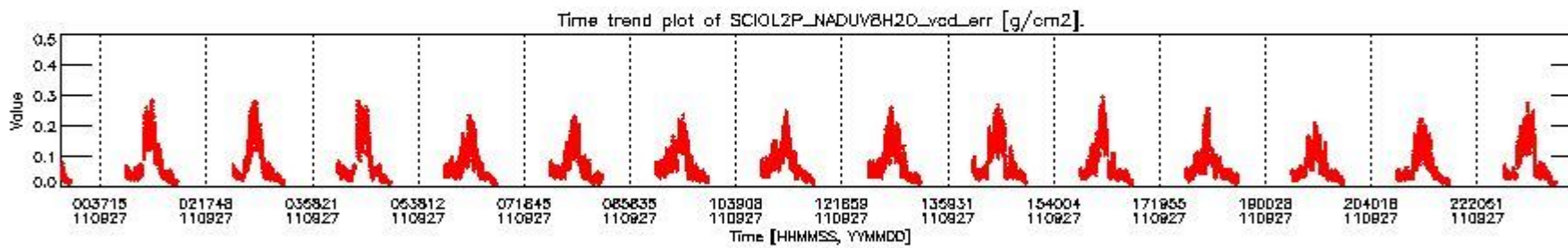
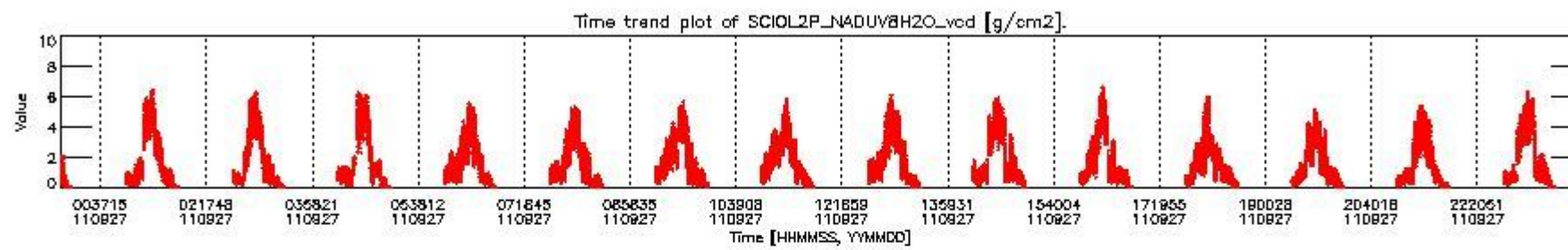
CIOL2P_NADUV60CLslant_col_den for 27SEP2011 00:00:00 to 28SEP2011 00:00:00 np CIOL2P_NADUV60CLerr_slant_col for 27SEP2011 00:00:00 to 28SEP2011 00:00:00 np



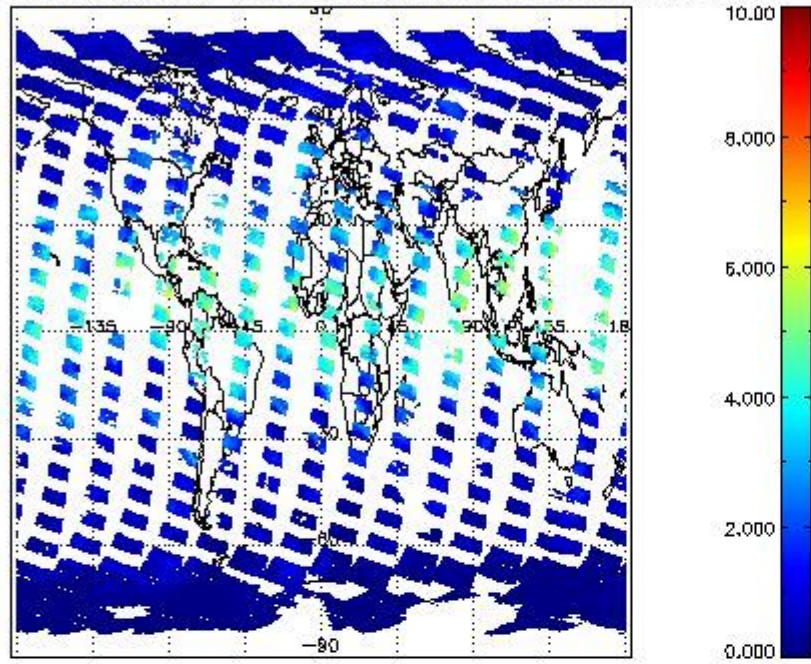
CIOL2P_NADUV60CL_slant_col_den for 27SEP2011 00:00:00 to 28SEP2011 00:00:00 sp; CIOL2P_NADUV60CL_err_slant_col for 27SEP2011 00:00:00 to 28SEP2011 00:00:00 sp



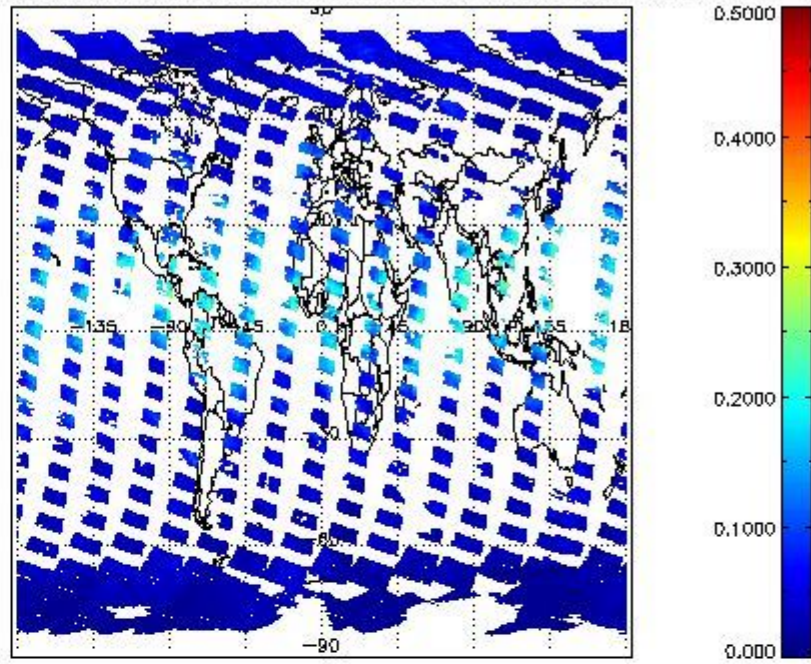
2.2.2.7 H2O (UV8)



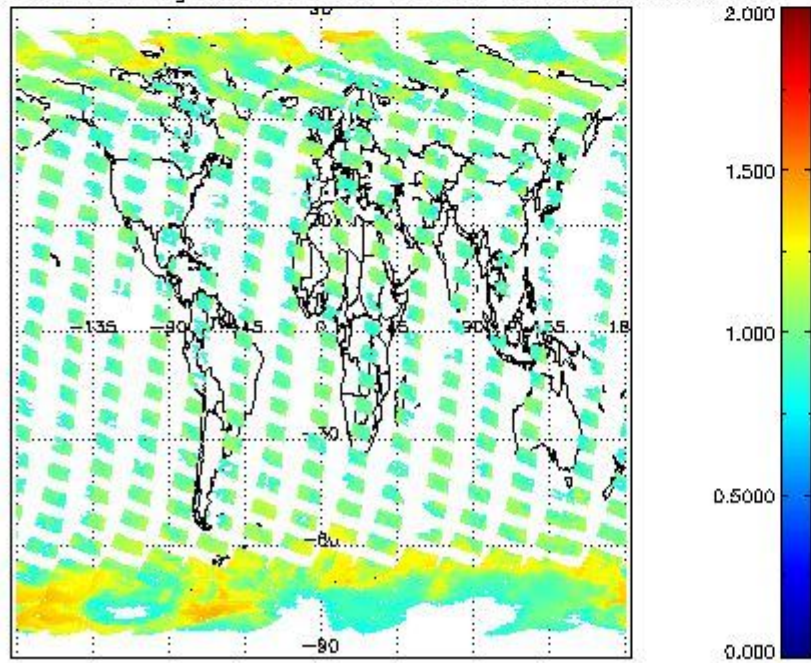
SCIOL2P_NADUV8H2O_vcd for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



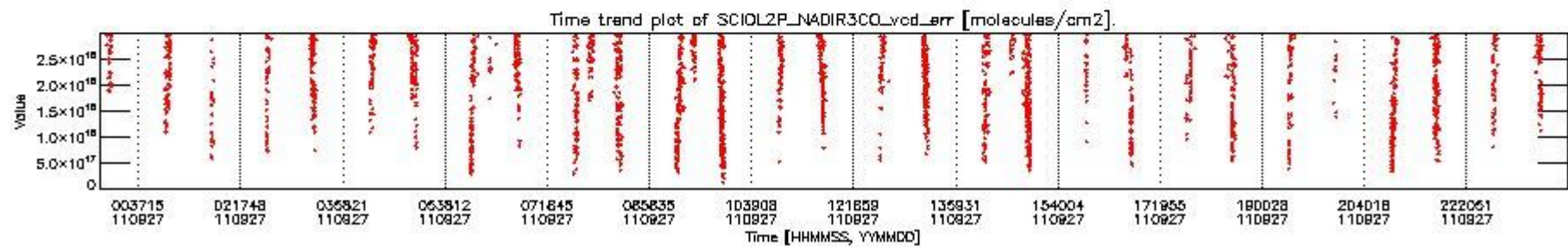
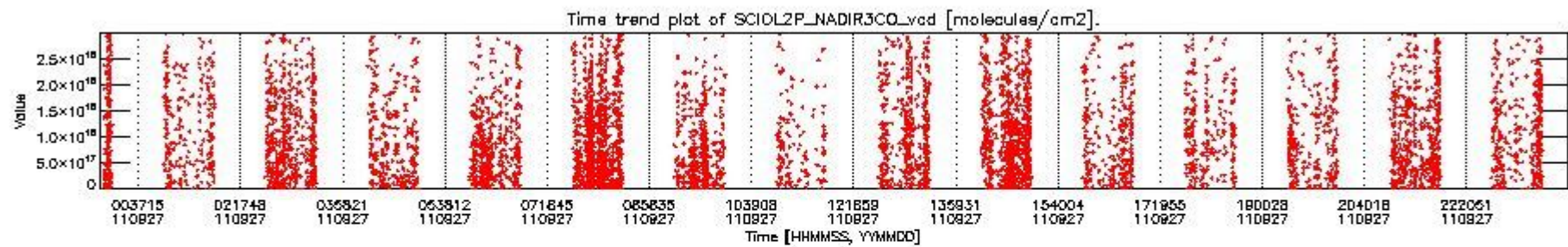
SCIOL2P_NADUV8H2O_vcd_err for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



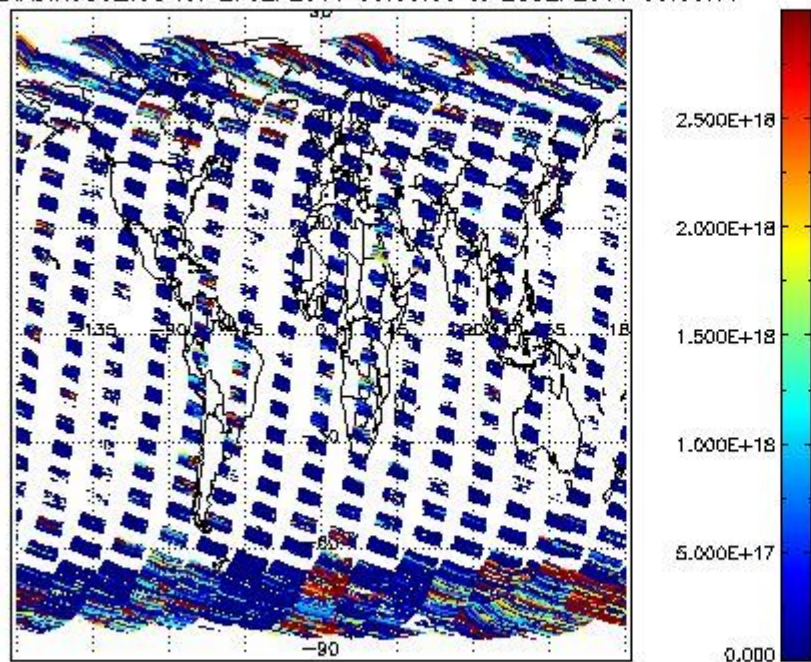
SCIOL2P_NADUV8H2O_arnf_gr for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



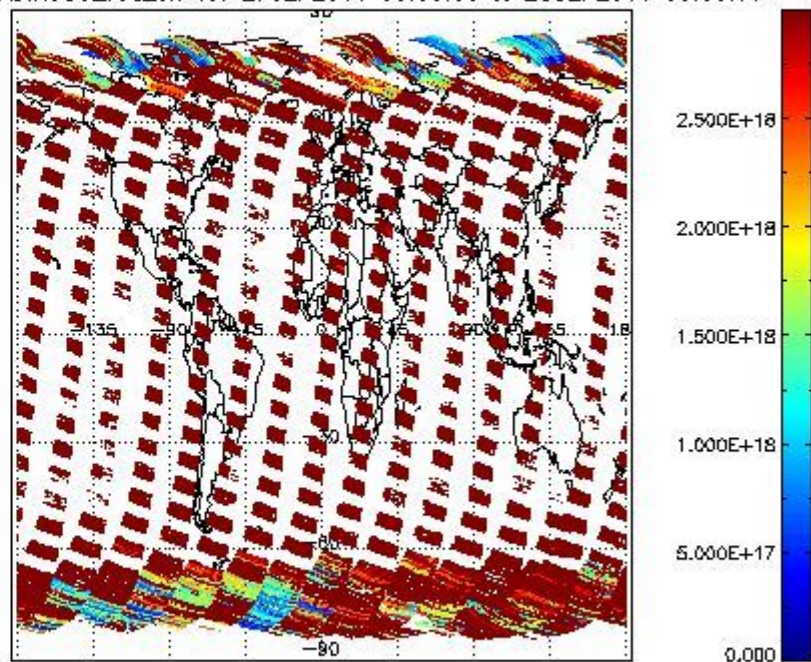
2.2.2.8 CO (IR3)



SCIDL2P_NADIR3CO_vcd for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



SCIDL2P_NADIR3CO_vcd_err for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



2.2.3 Limb

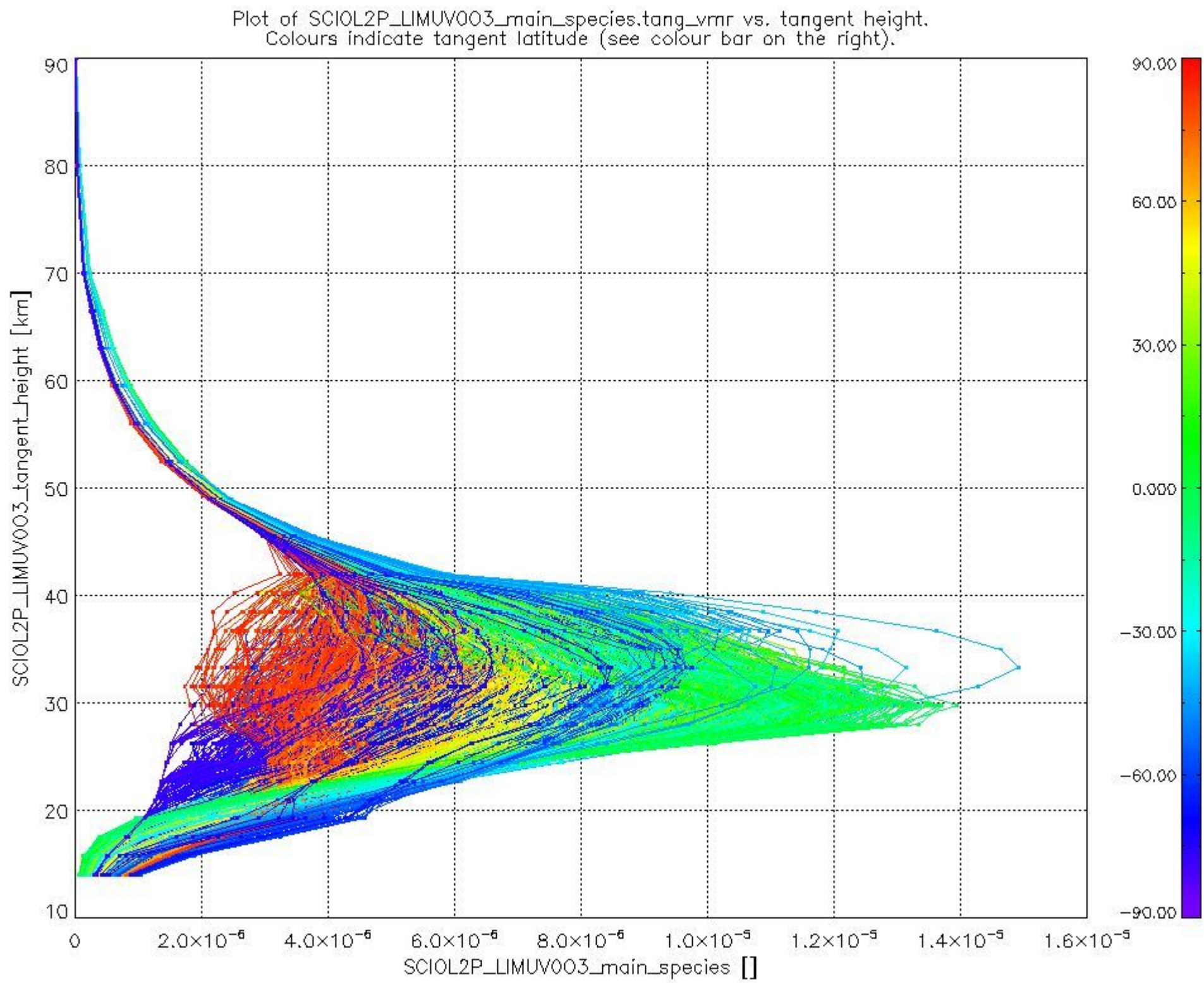
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

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

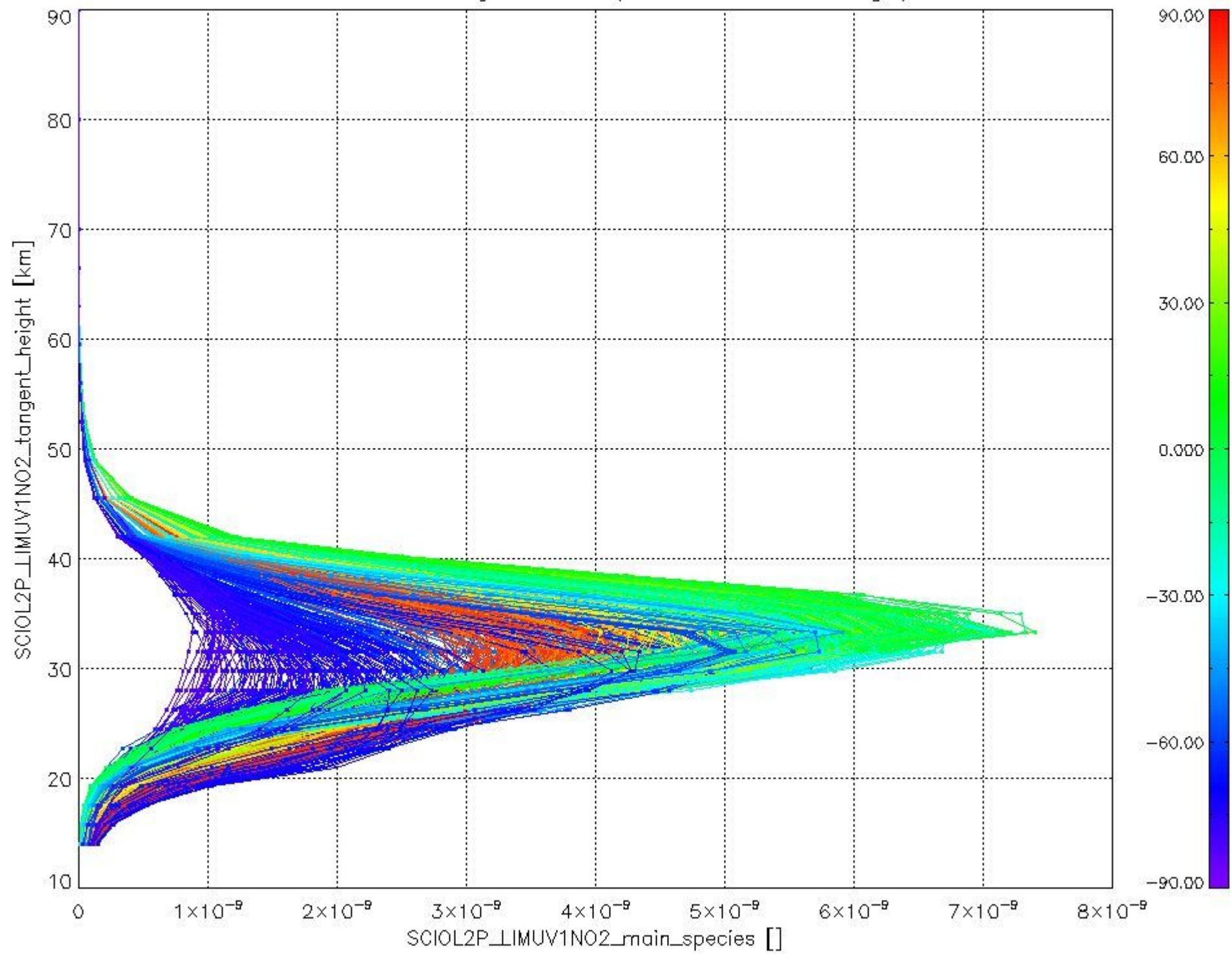
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



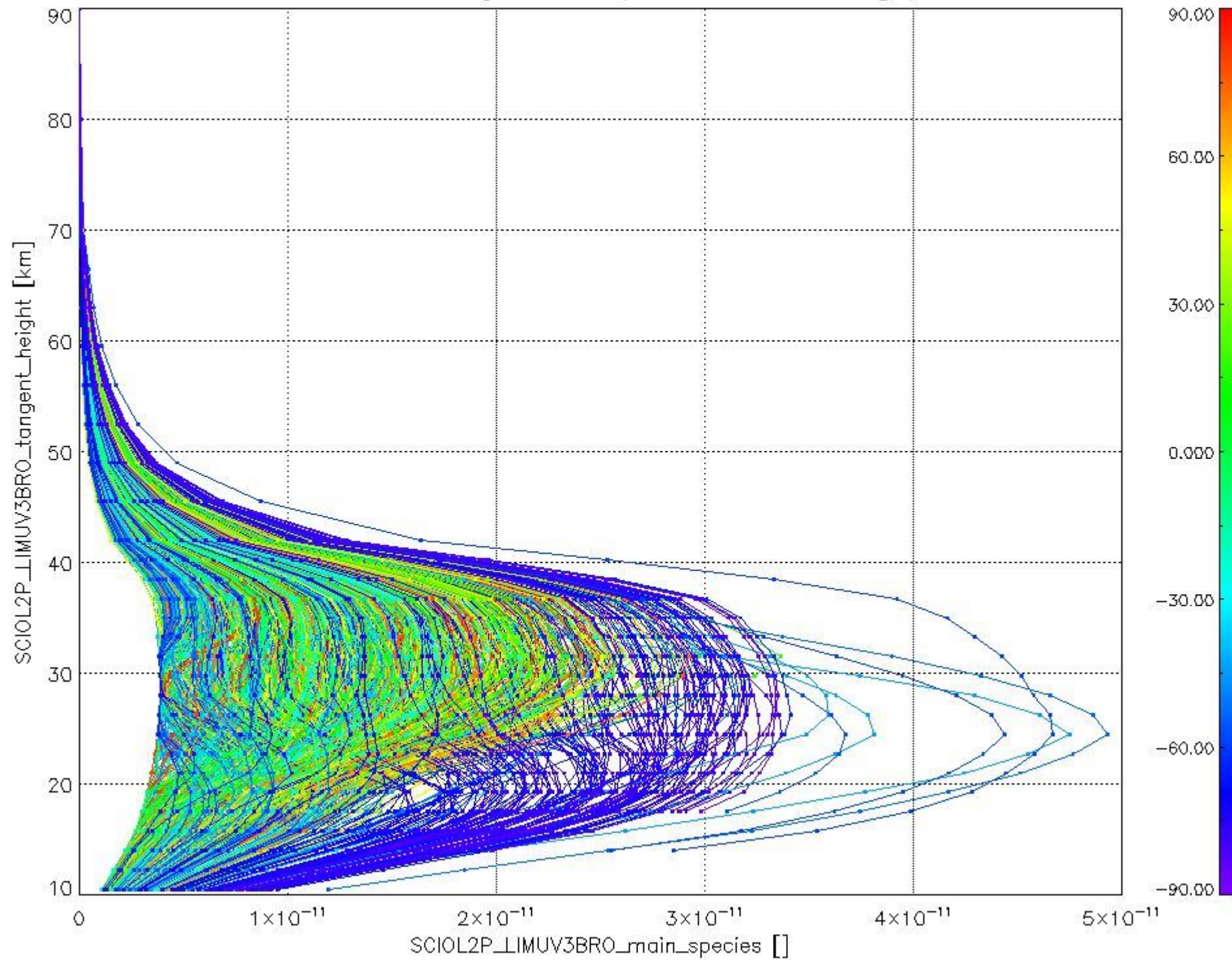
2.2.3.2 NO2 (UV1)

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)

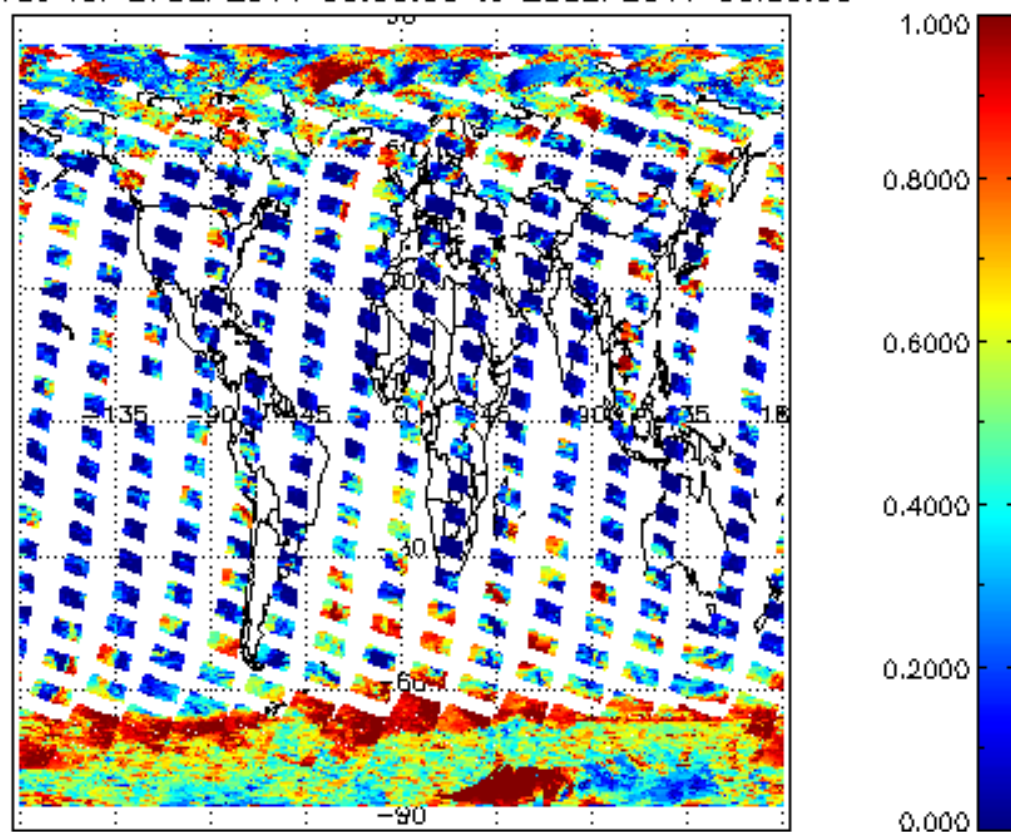
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



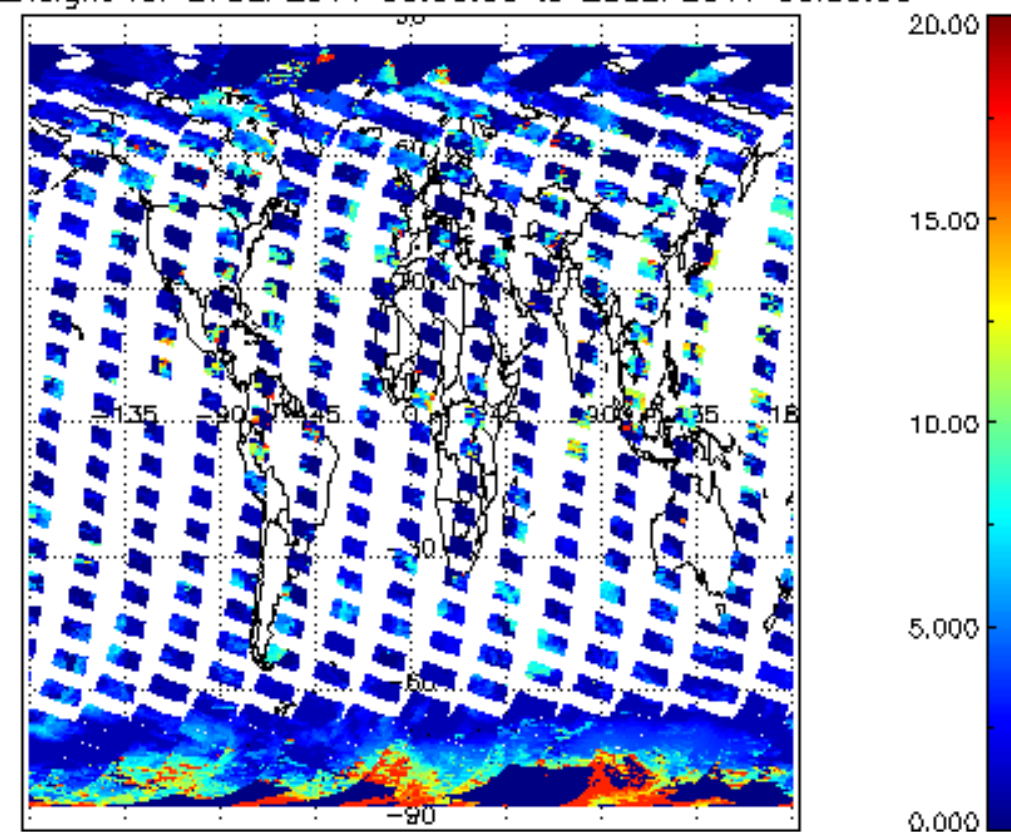
2.3 ADF monitoring

Number	ADF
	IN_ (INITIALISATION_FILE)
0	SCI_IN_AXNPDE20110201_120000_20020301_000000_20991231_235959
	ECF (ECMWF_FILE)
1	NOT USED
	MF1 (M_FACTOR_FILE)
2	SCI_MF1_AXVIEC20110927_141339_20110926_192042_20110928_192042
3	SCI_MF1_AXVIEC20111004_131424_20110927_184356_20110929_184356

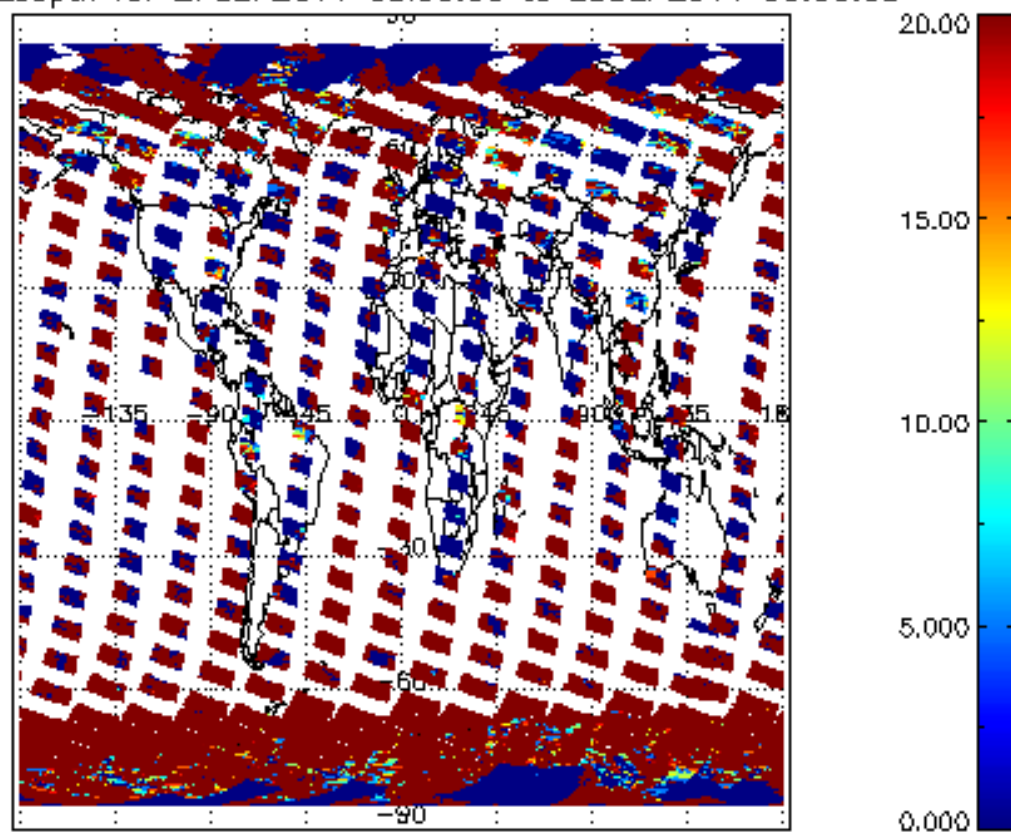
cl_frac for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



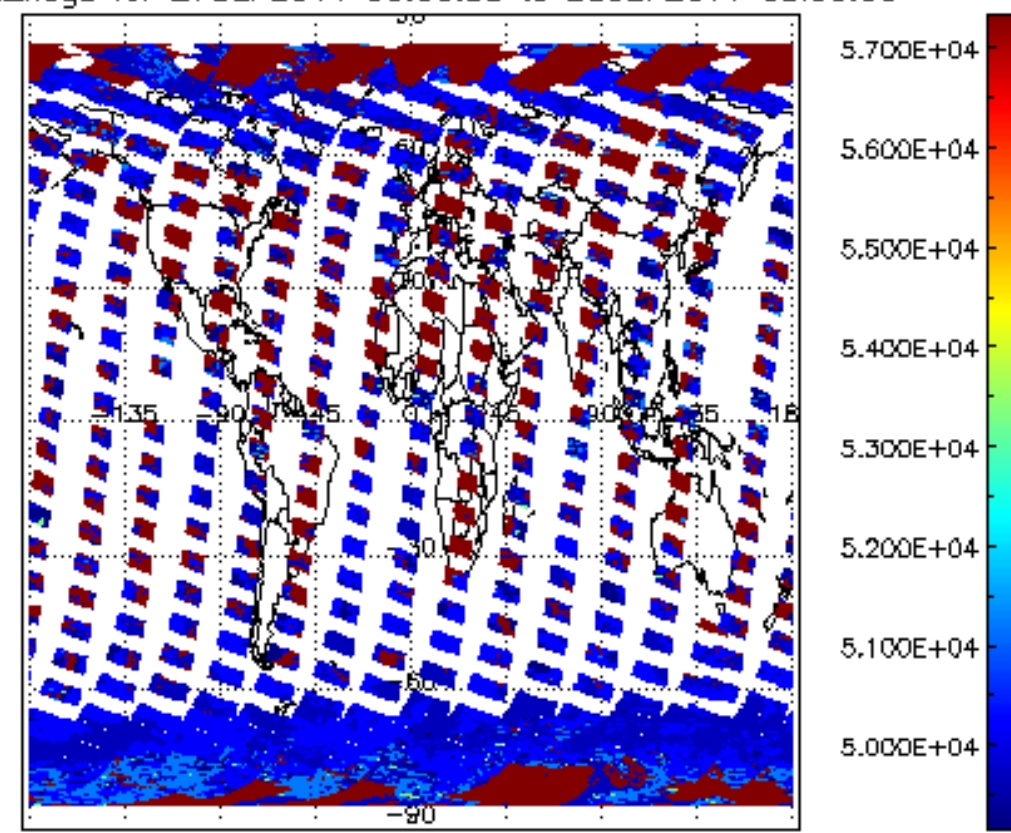
cl_top_height for 27SEP2011 00:00:00 to 28SEP2011 00:00:00

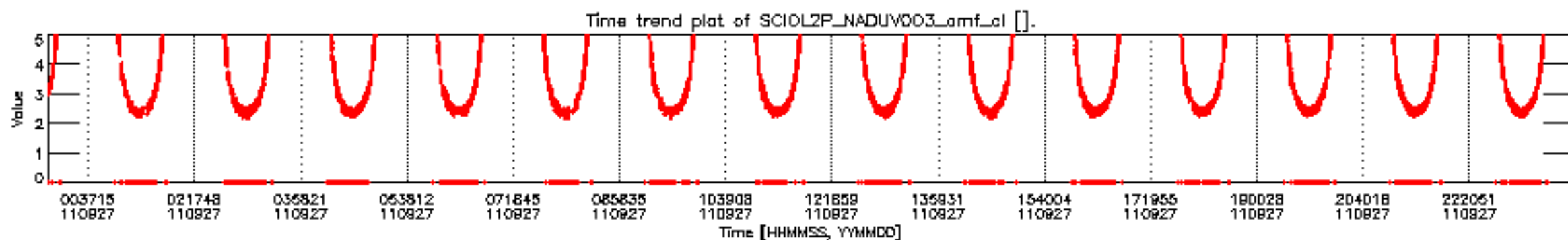
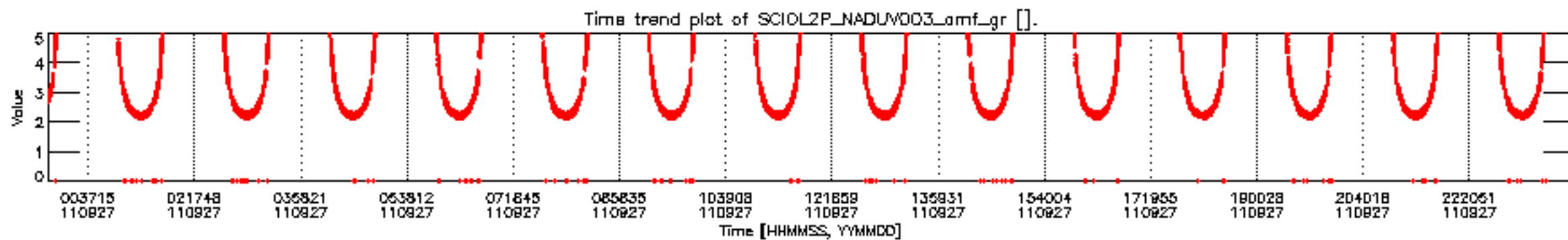
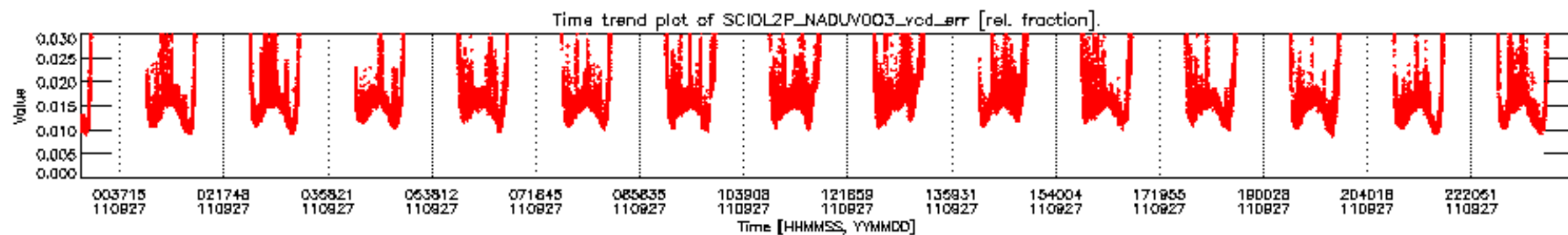
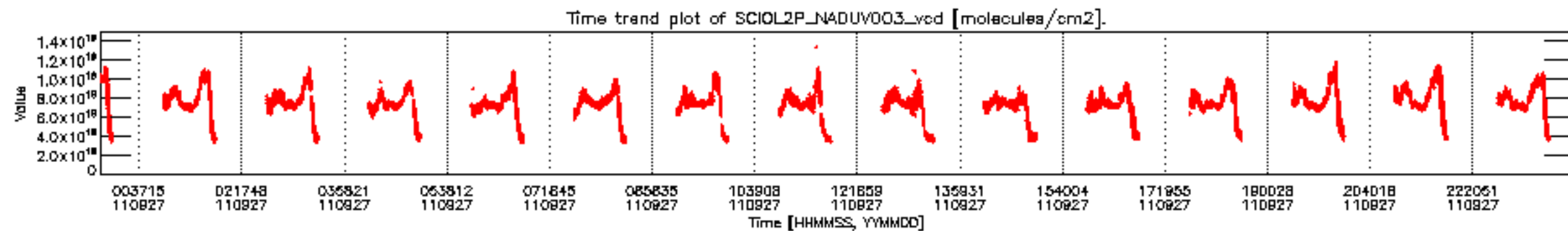


cl_opt_depth for 27SEP2011 00:00:00 to 28SEP2011 00:00:00

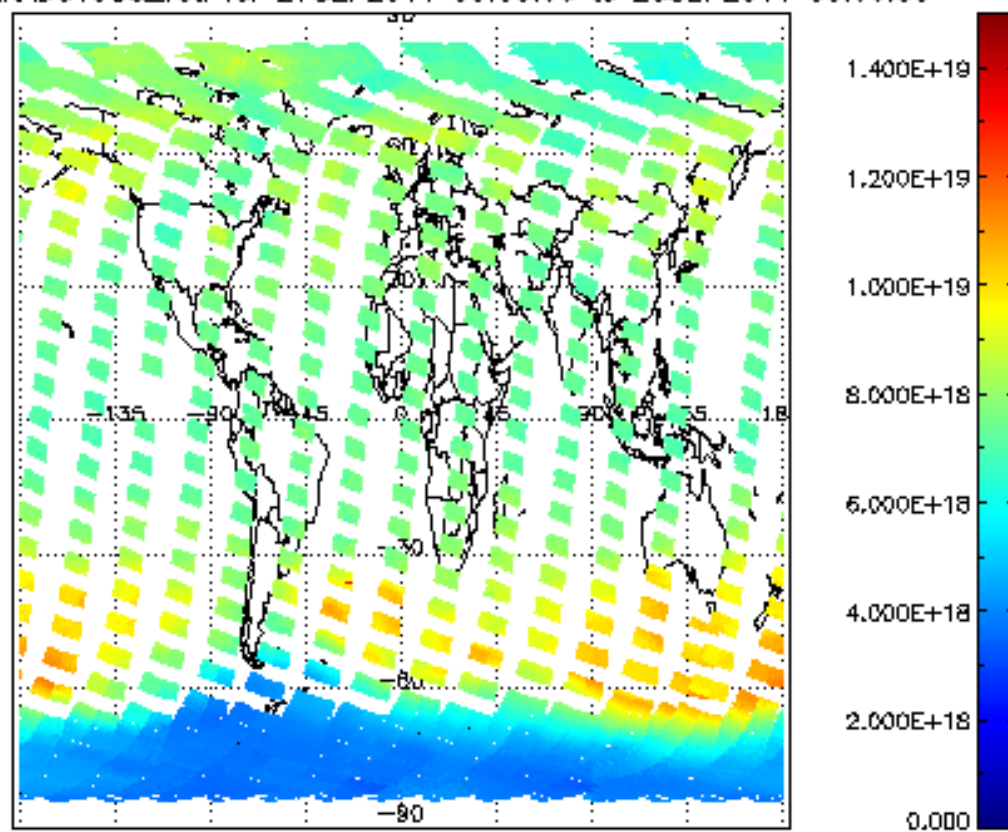


cloud_flags for 27SEP2011 00:00:00 to 28SEP2011 00:00:00

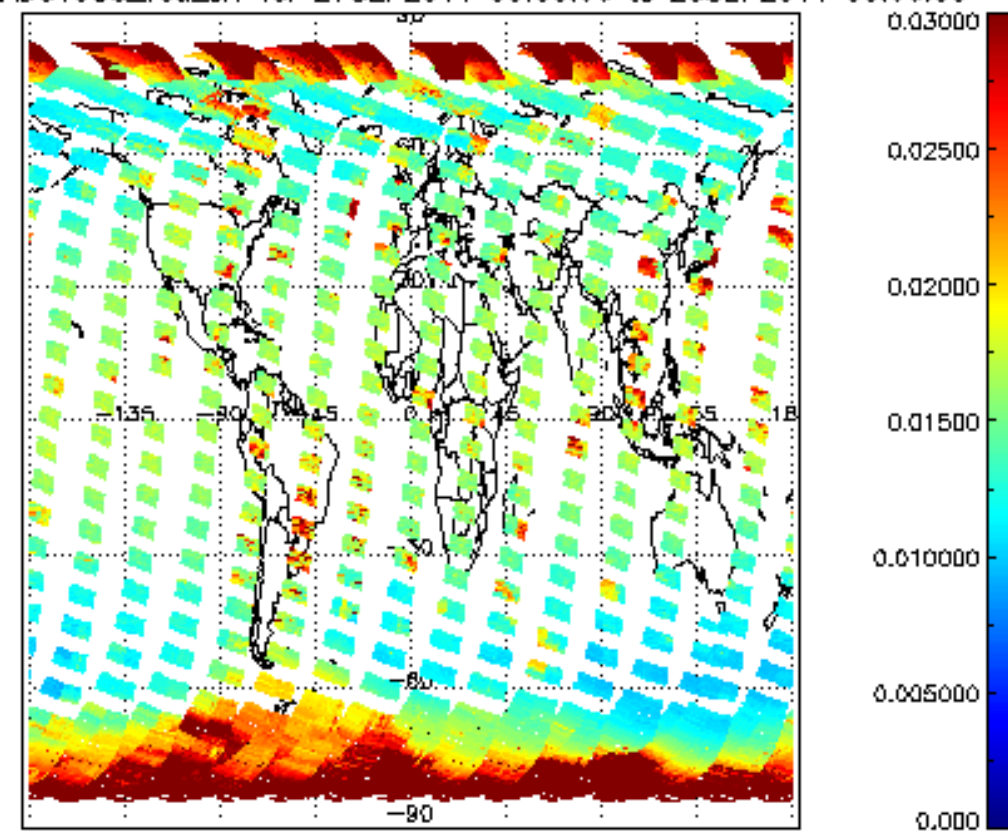




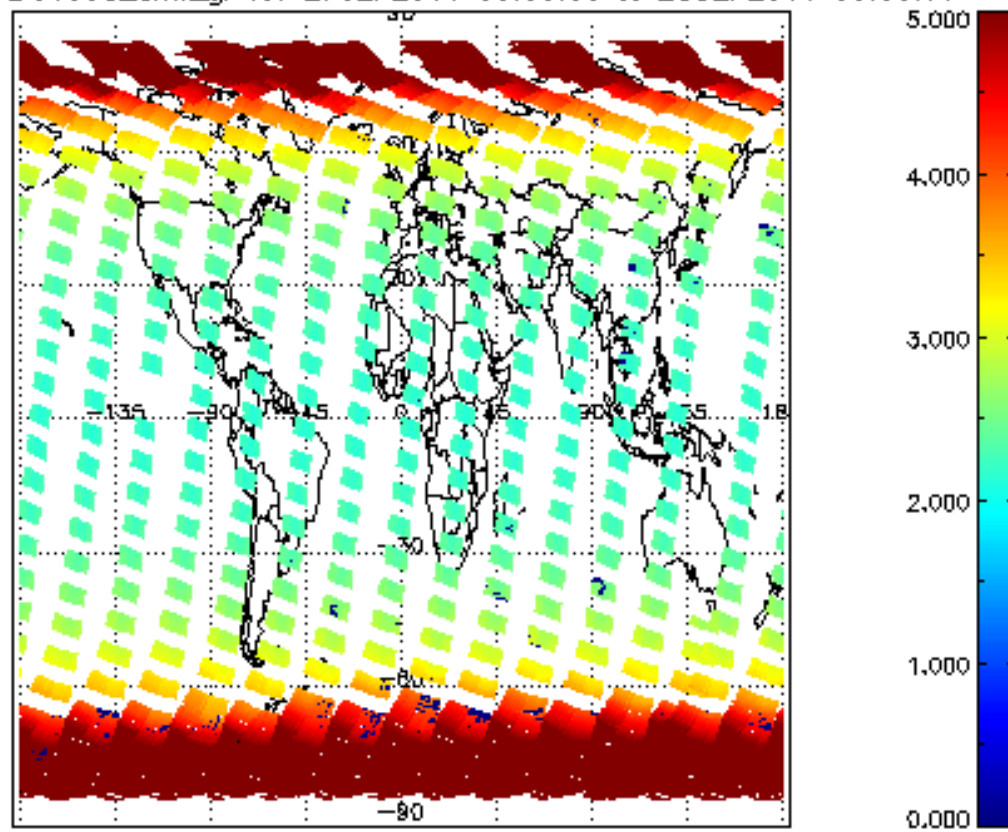
SCIOL2P_NADUV003_vcd for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



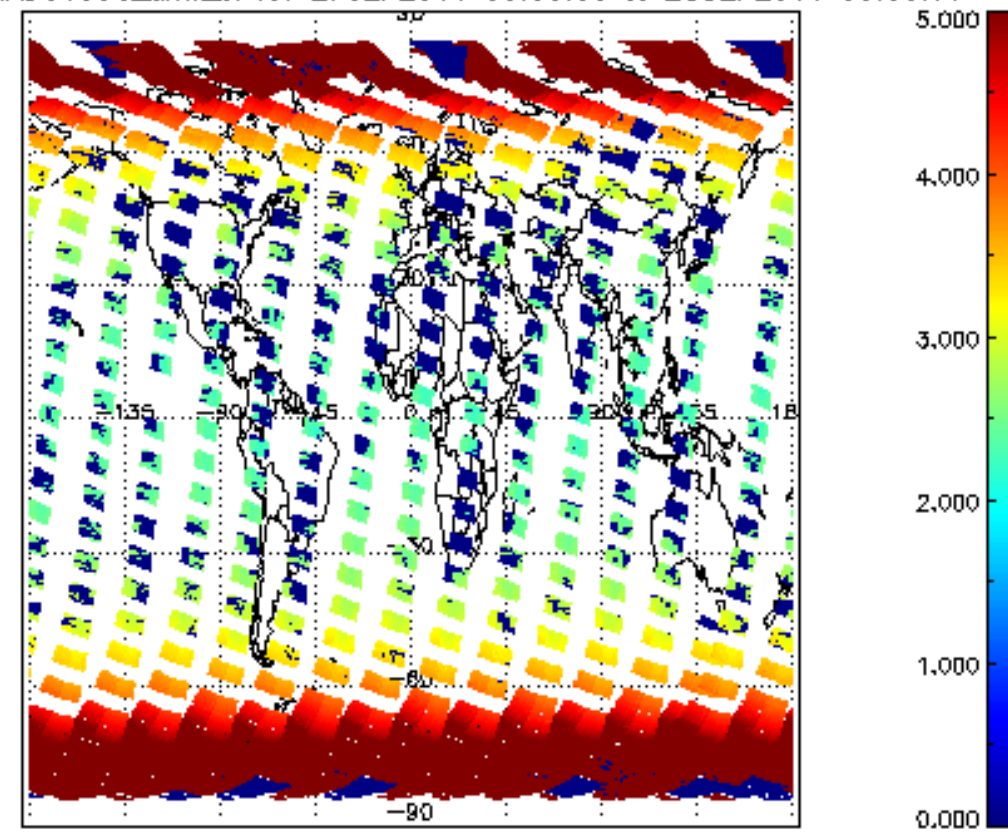
SCIOL2P_NADUV003_vcd_err for 27SEP2011 00:00:00 to 28SEP2011 00:00:00

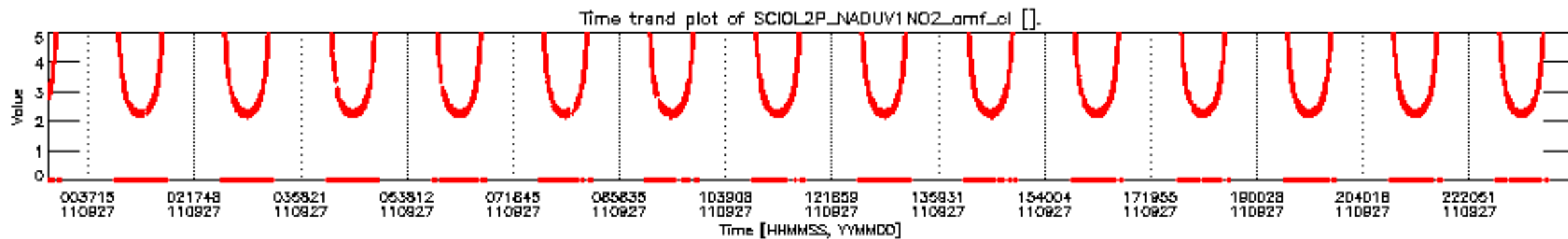
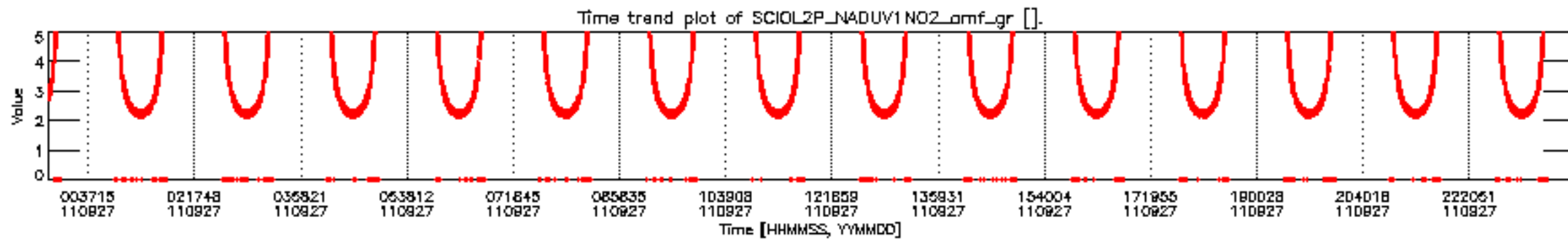
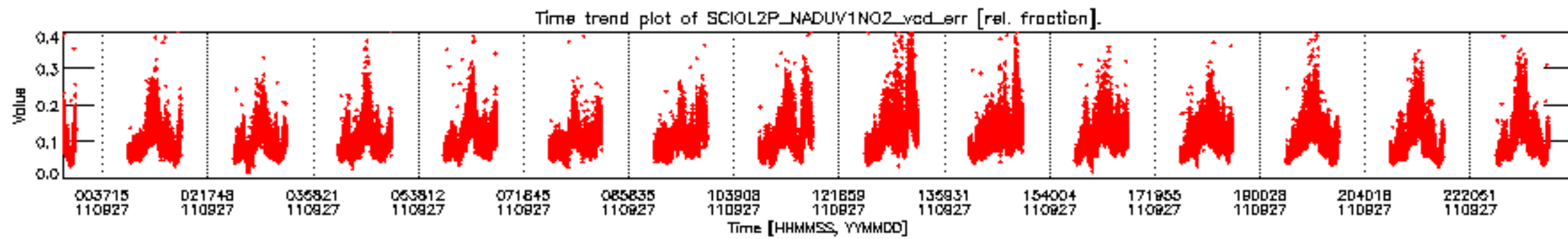
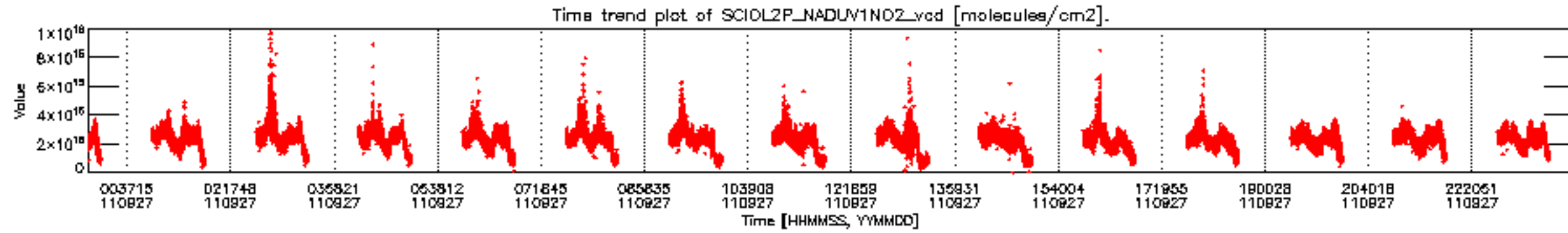


SCIOL2P_NADUV003_amf_gr for 27SEP2011 00:00:00 to 28SEP2011 00:00:00

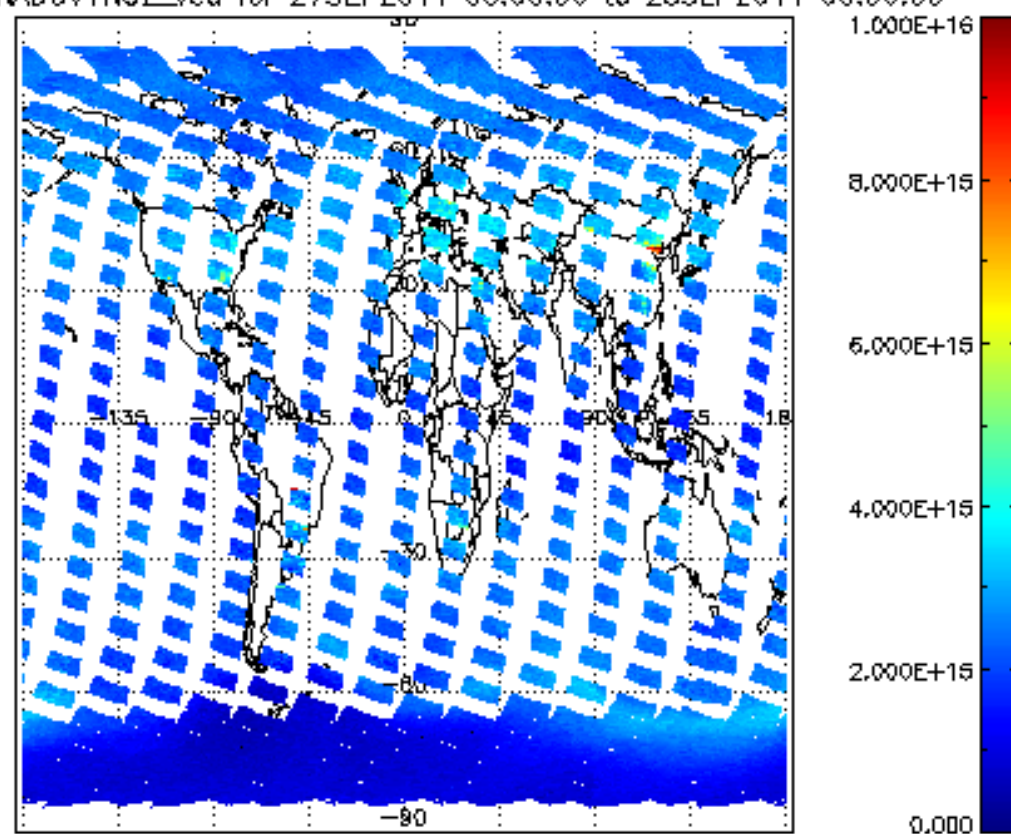


SCIOL2P_NADUV003_amf_cl for 27SEP2011 00:00:00 to 28SEP2011 00:00:00

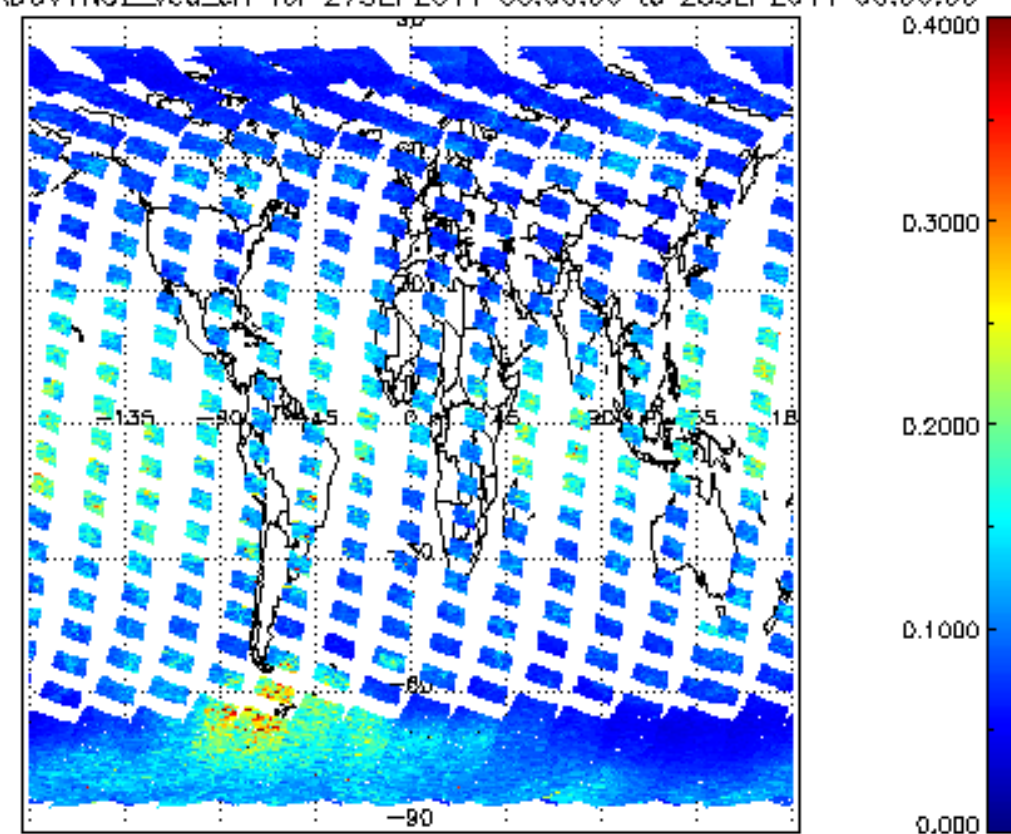




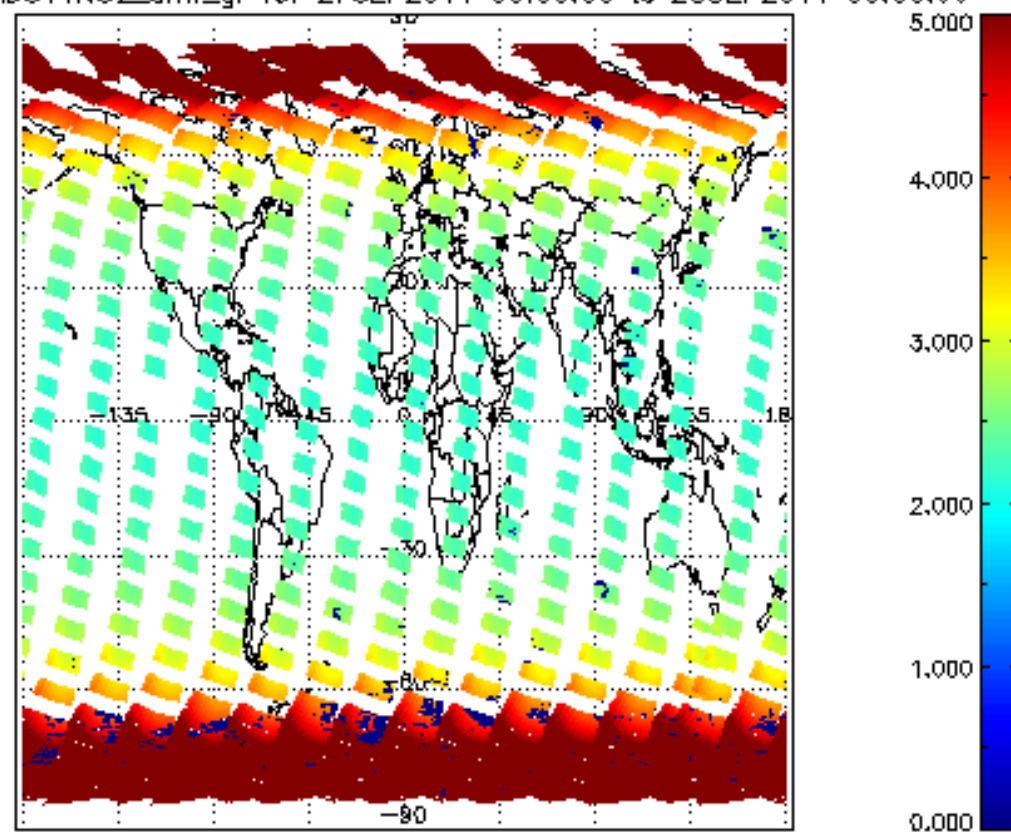
SCIOL2P_NADUV1N02_vcd for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



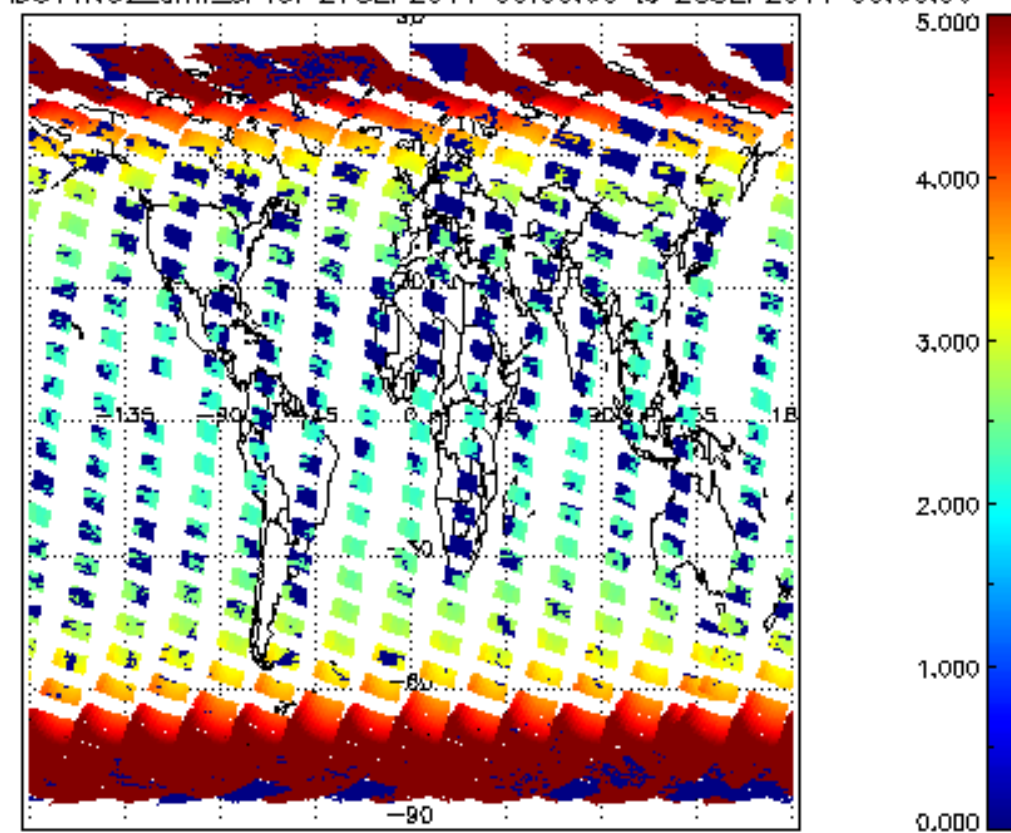
SCIOL2P_NADUV1N02_vcd_err for 27SEP2011 00:00:00 to 28SEP2011 00:00:00

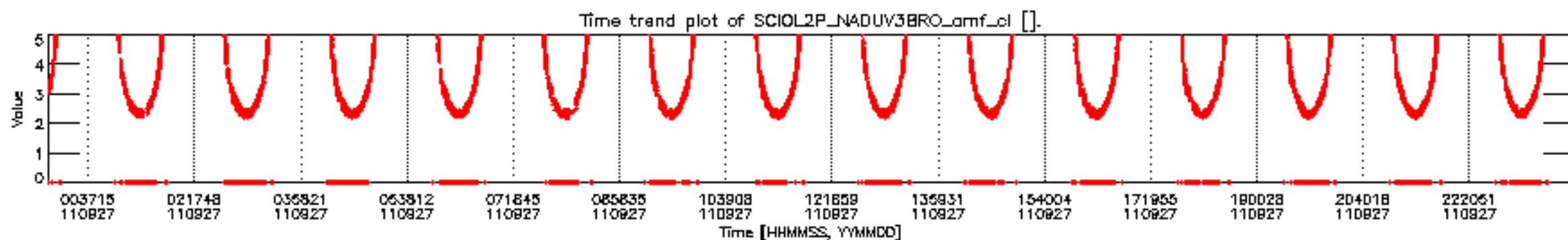
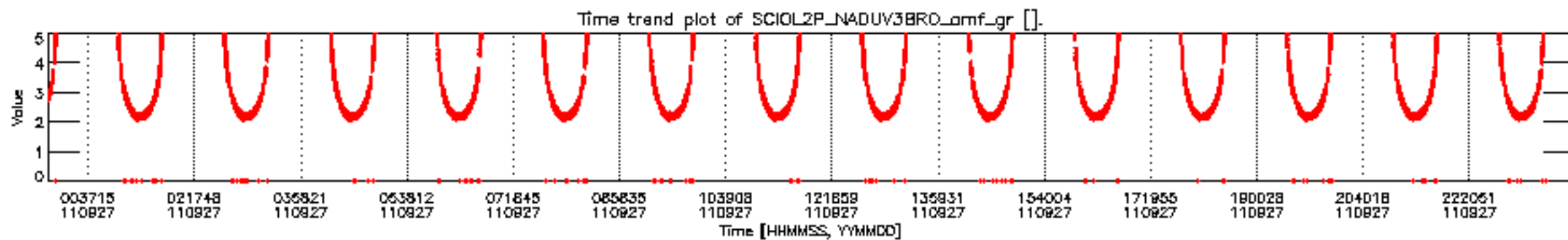
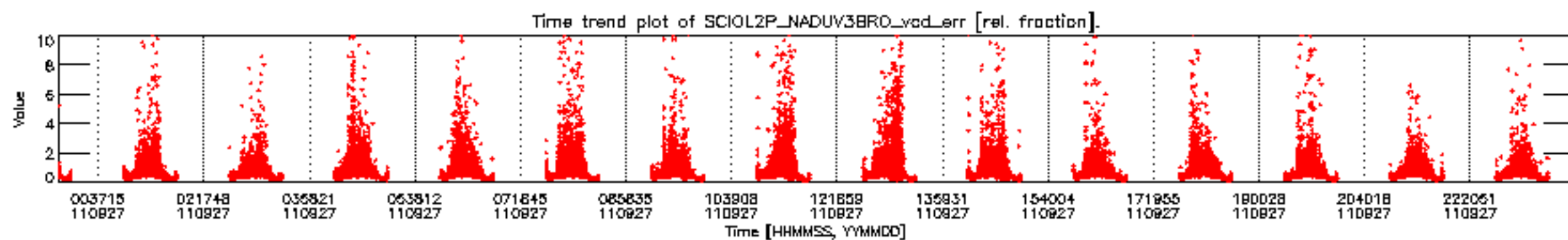
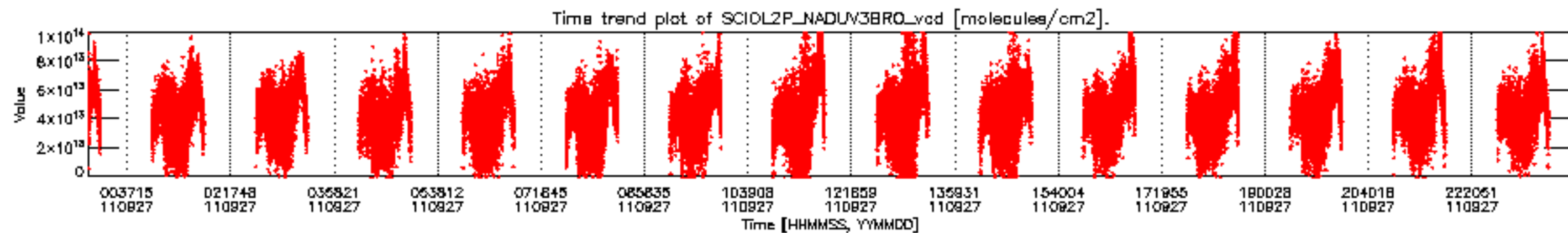


SCIOL2P_NADUV1N02_amf_gr for 27SEP2011 00:00:00 to 28SEP2011 00:00:00

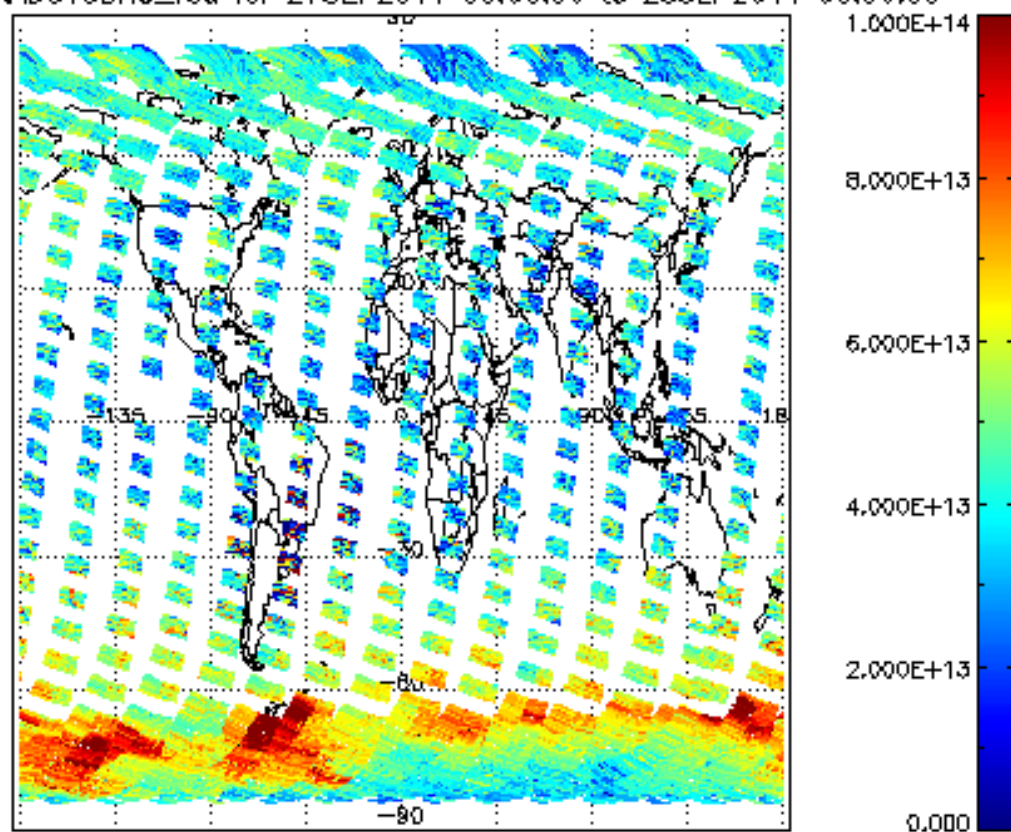


SCIOL2P_NADUV1N02_amf_sl for 27SEP2011 00:00:00 to 28SEP2011 00:00:00

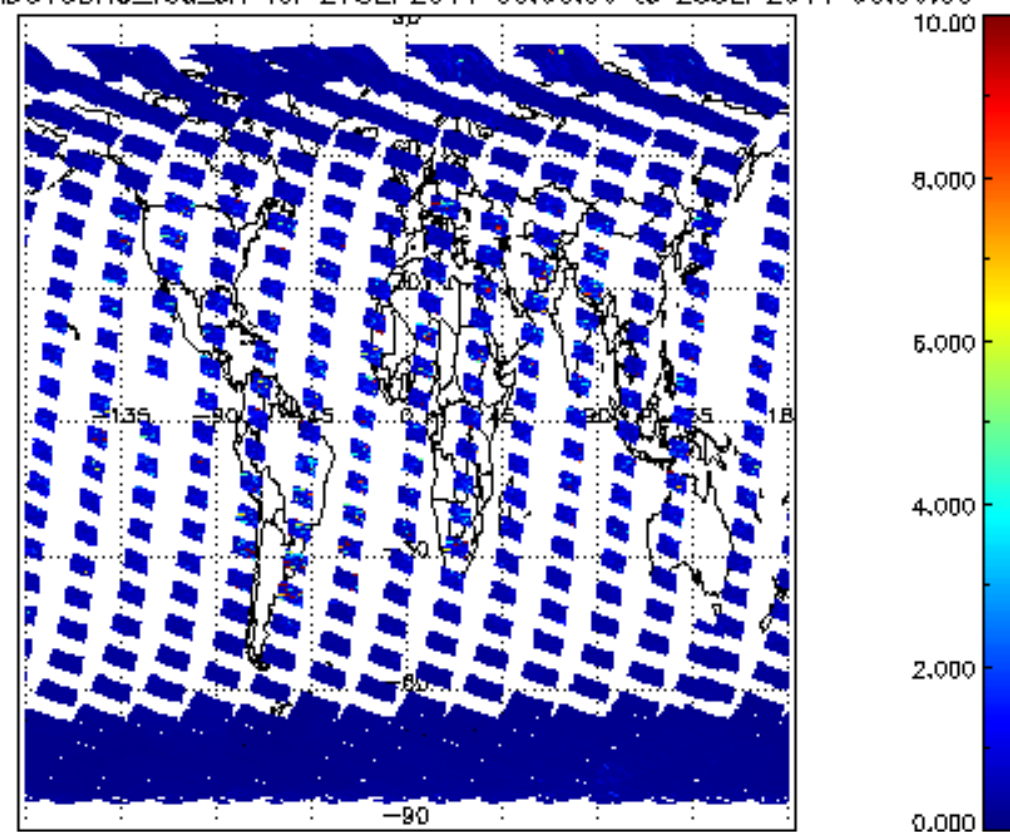




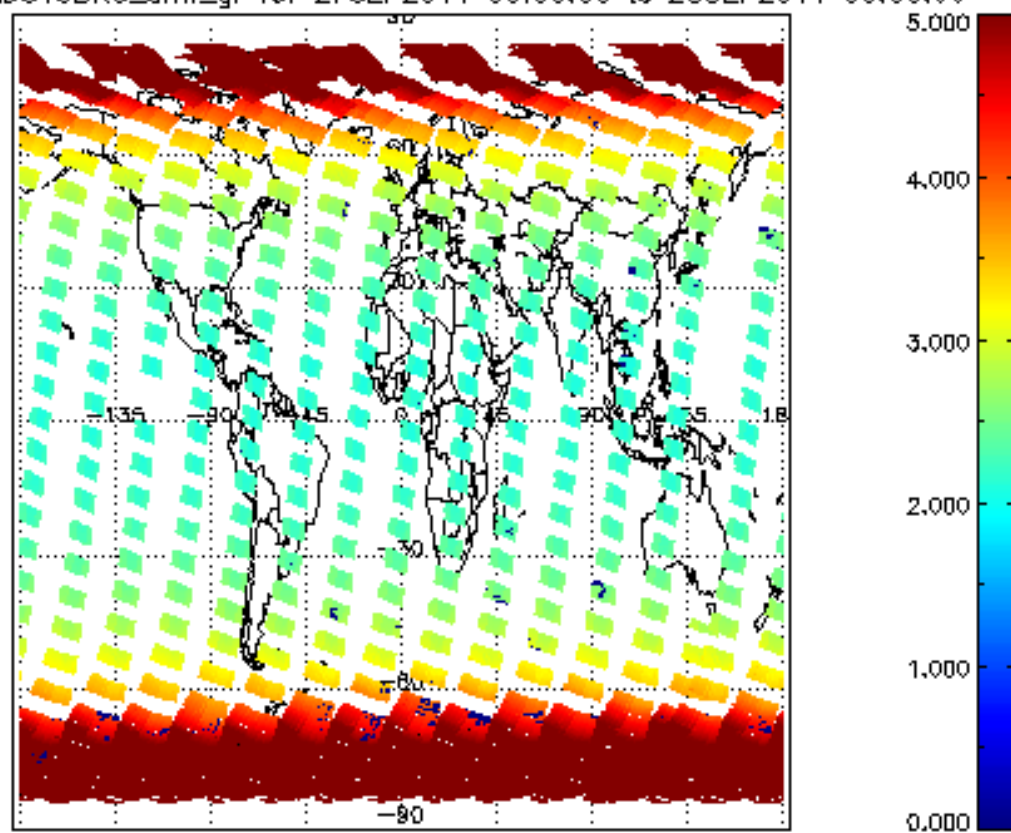
SCIOL2P_NADUV3BRO_vcd for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



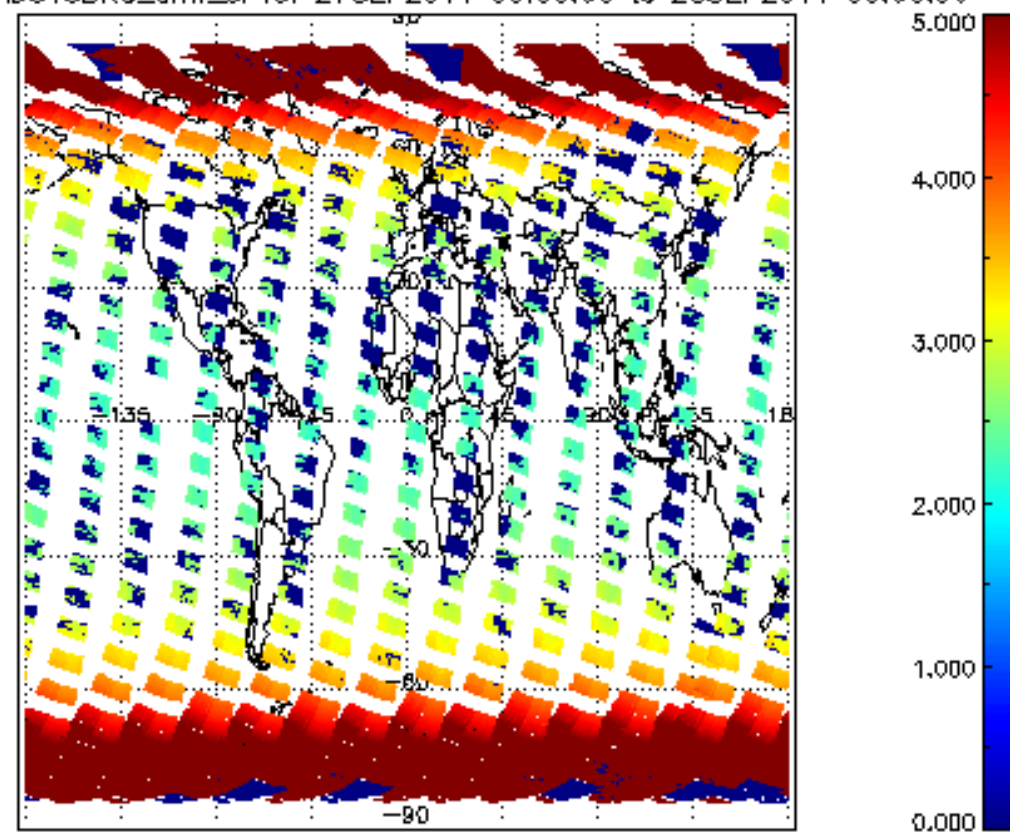
SCIOL2P_NADUV3BRO_vcd_err for 27SEP2011 00:00:00 to 28SEP2011 00:00:00

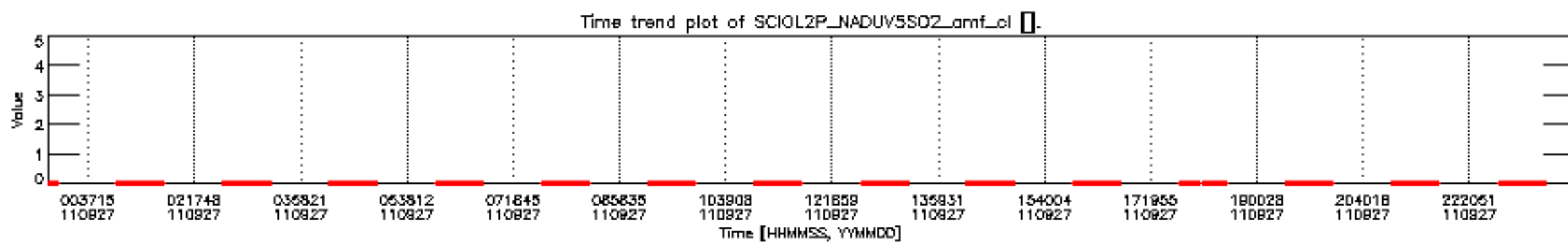
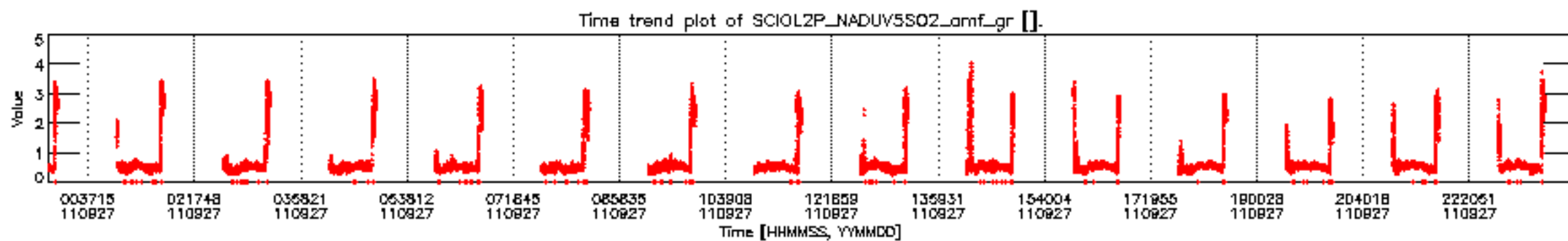
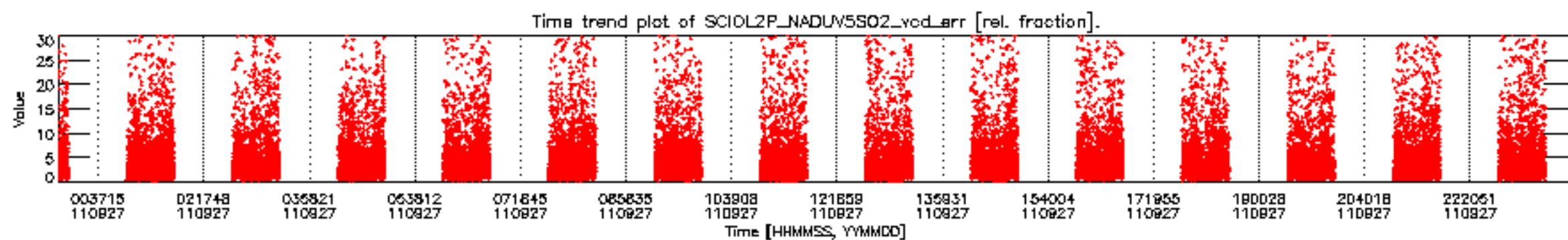
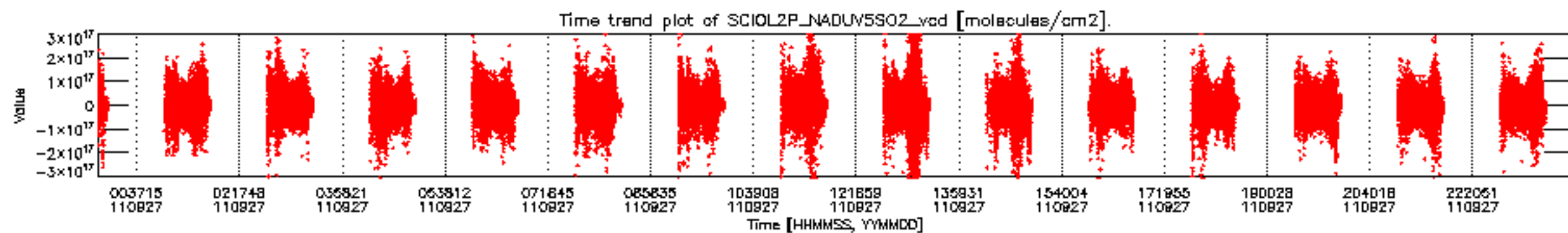


SCIOL2P_NADUV3BRO_amf_gr for 27SEP2011 00:00:00 to 28SEP2011 00:00:00

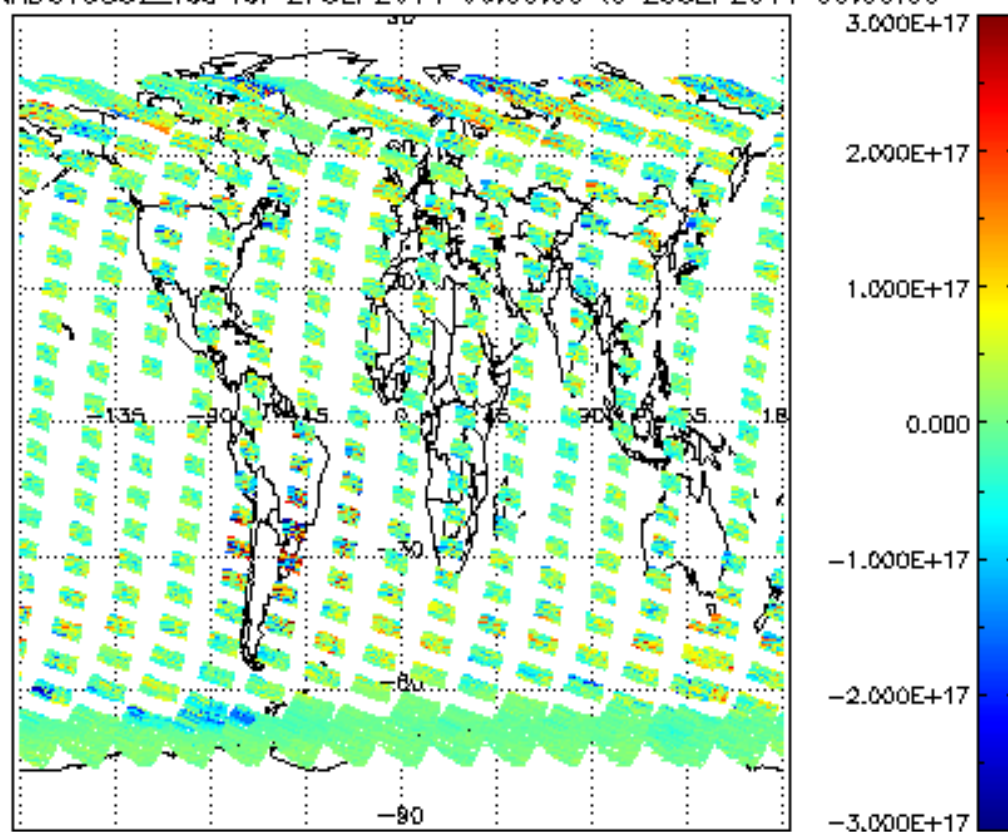


SCIOL2P_NADUV3BRO_amf_sl for 27SEP2011 00:00:00 to 28SEP2011 00:00:00

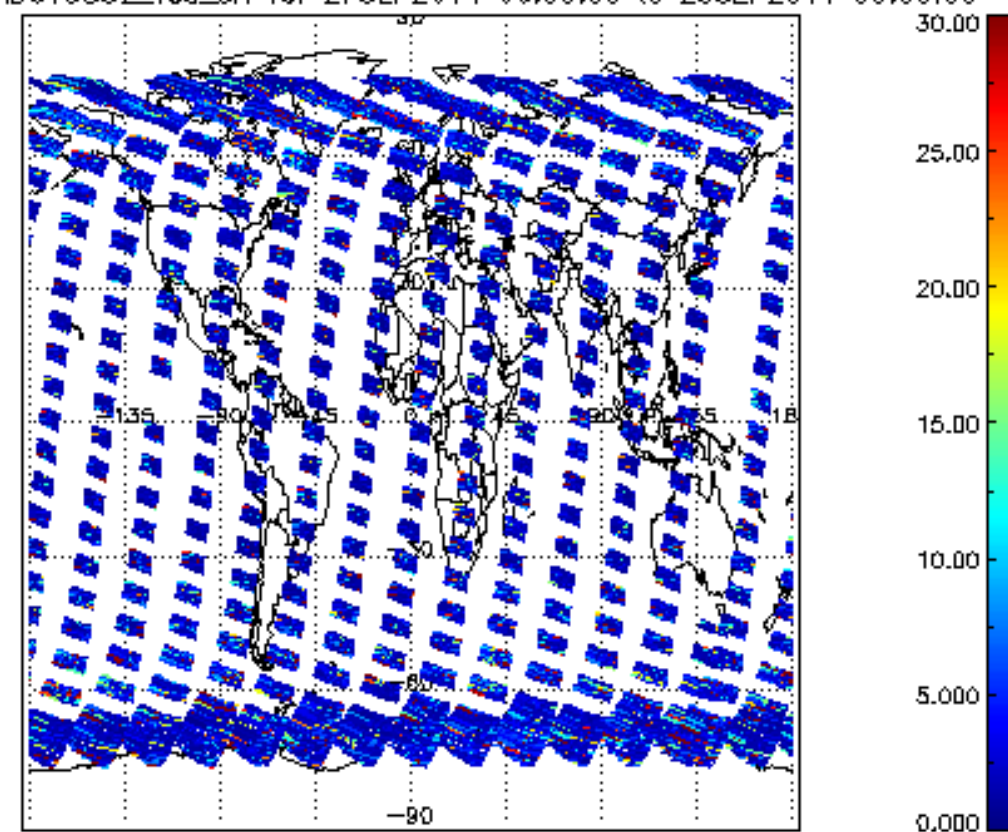




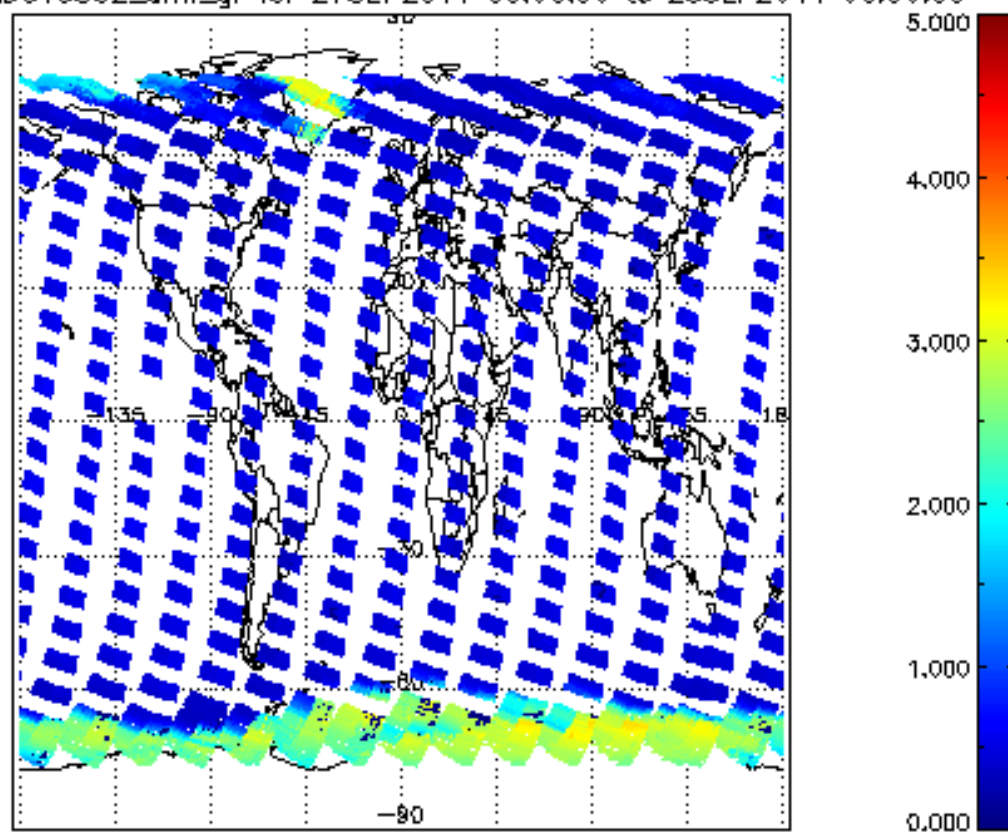
SCIOL2P_NADUV5S02_vcd for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



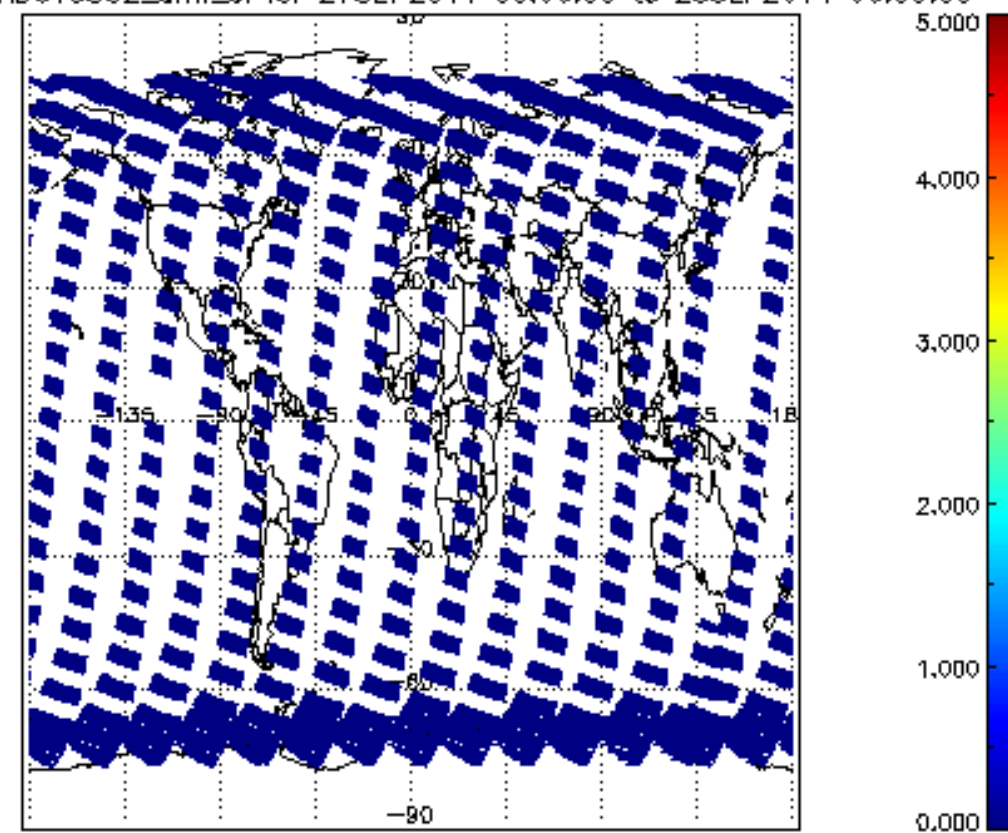
SCIOL2P_NADUV5S02_vcd_err for 27SEP2011 00:00:00 to 28SEP2011 00:00:00

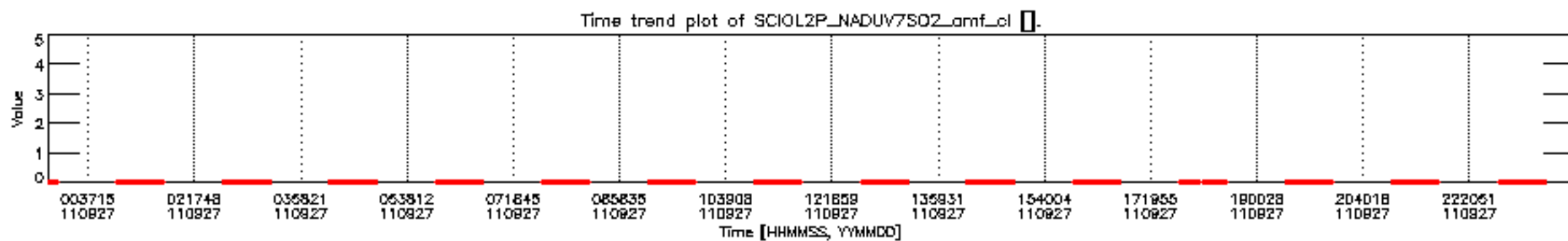
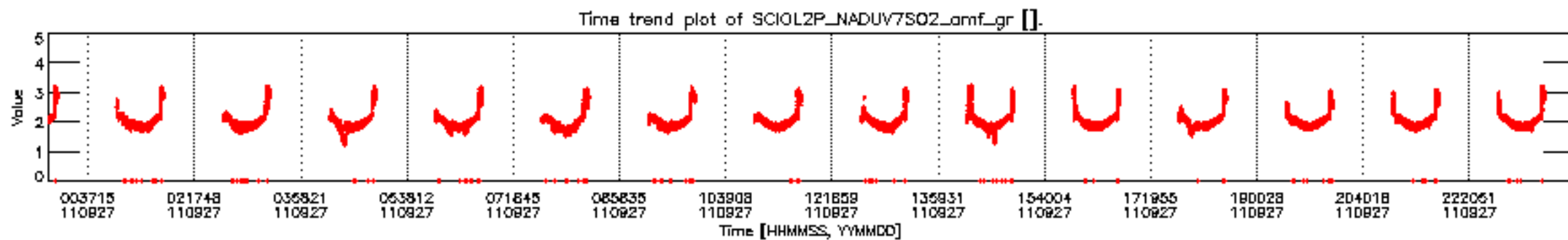
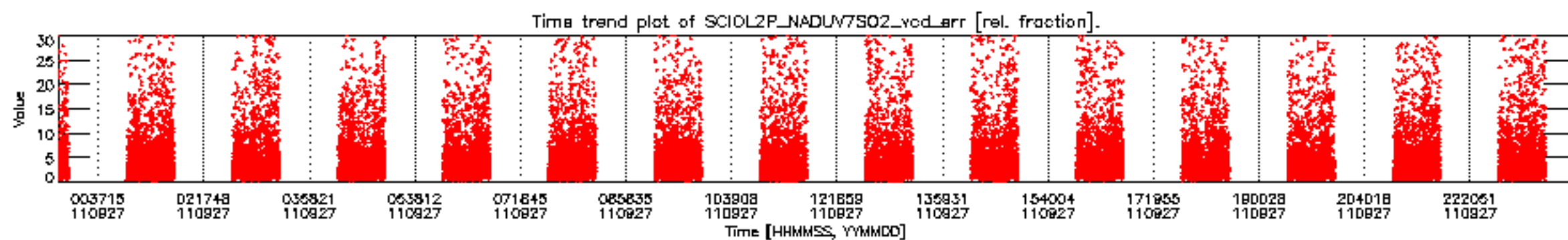
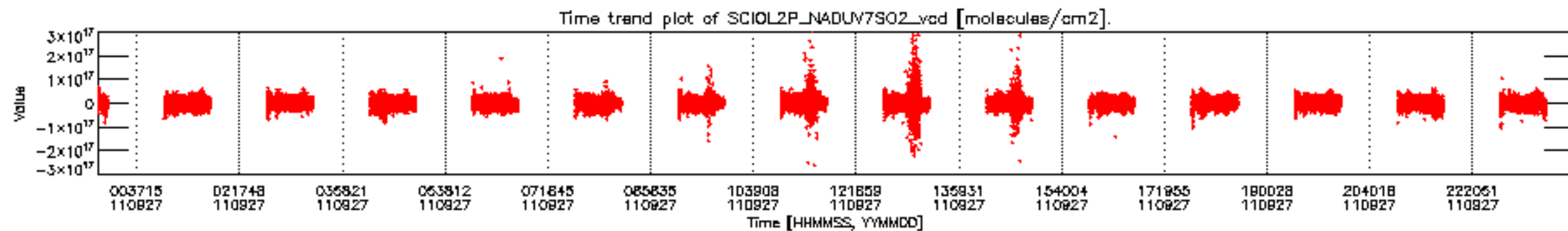


SCIOL2P_NADUV5S02_amf_gr for 27SEP2011 00:00:00 to 28SEP2011 00:00:00

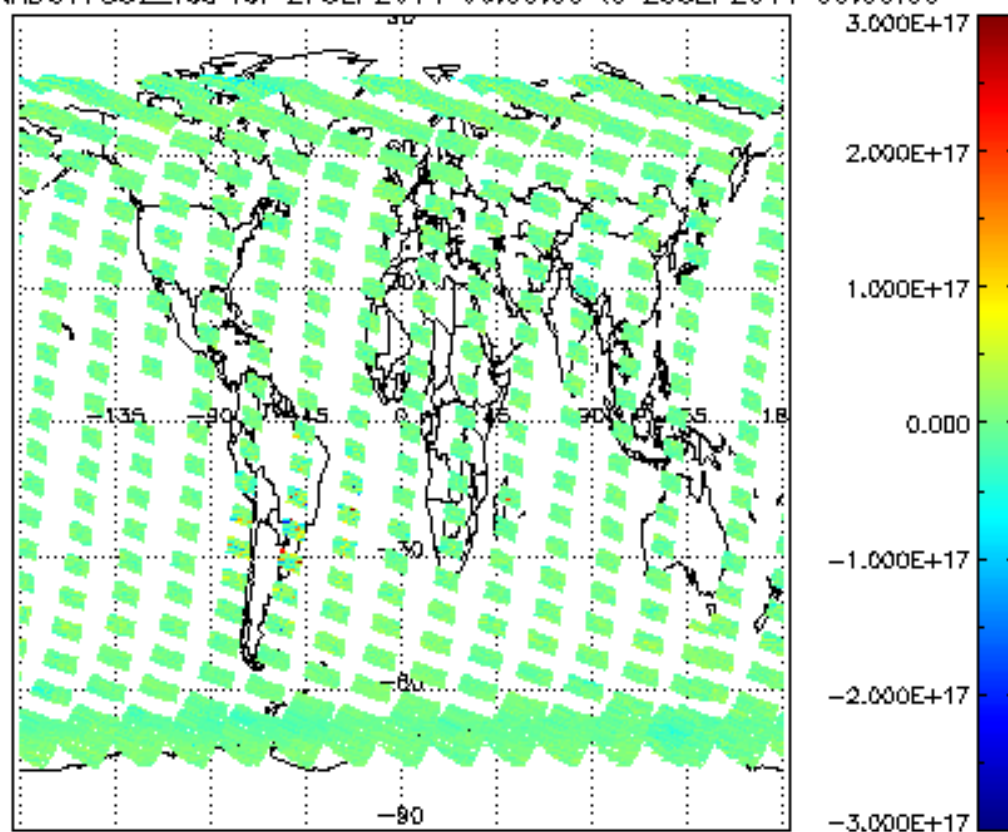


SCIOL2P_NADUV5S02_amf_cl for 27SEP2011 00:00:00 to 28SEP2011 00:00:00

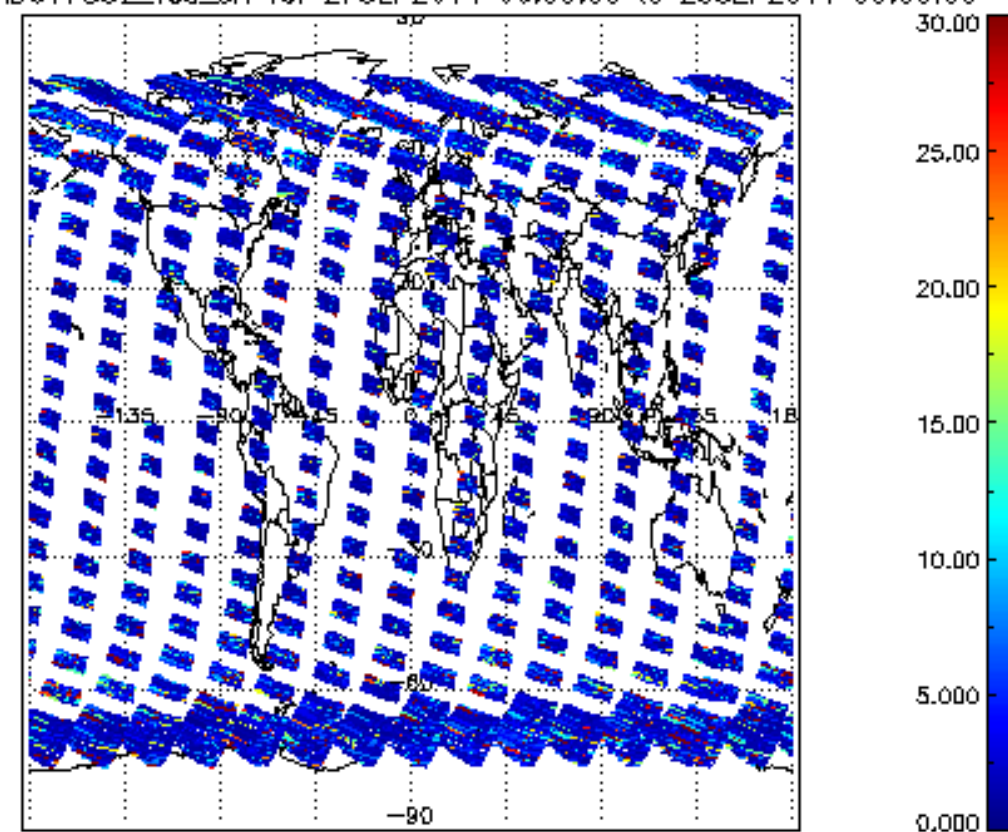




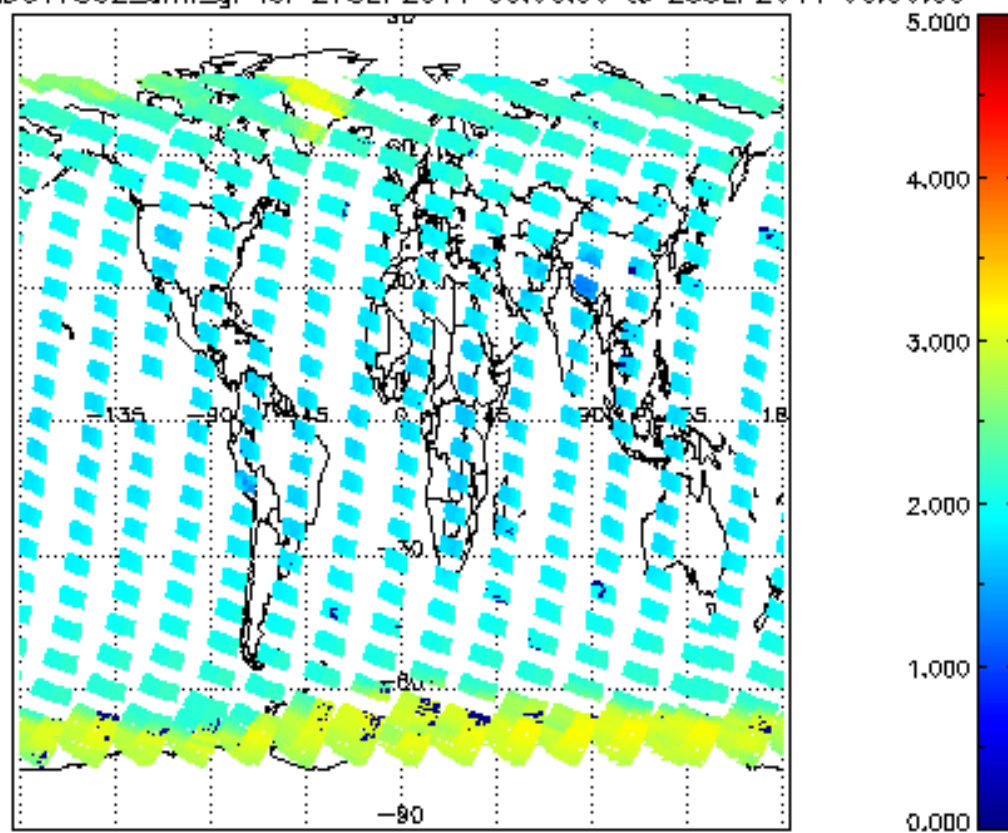
SCIOL2P_NADUV7S02_vcd for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



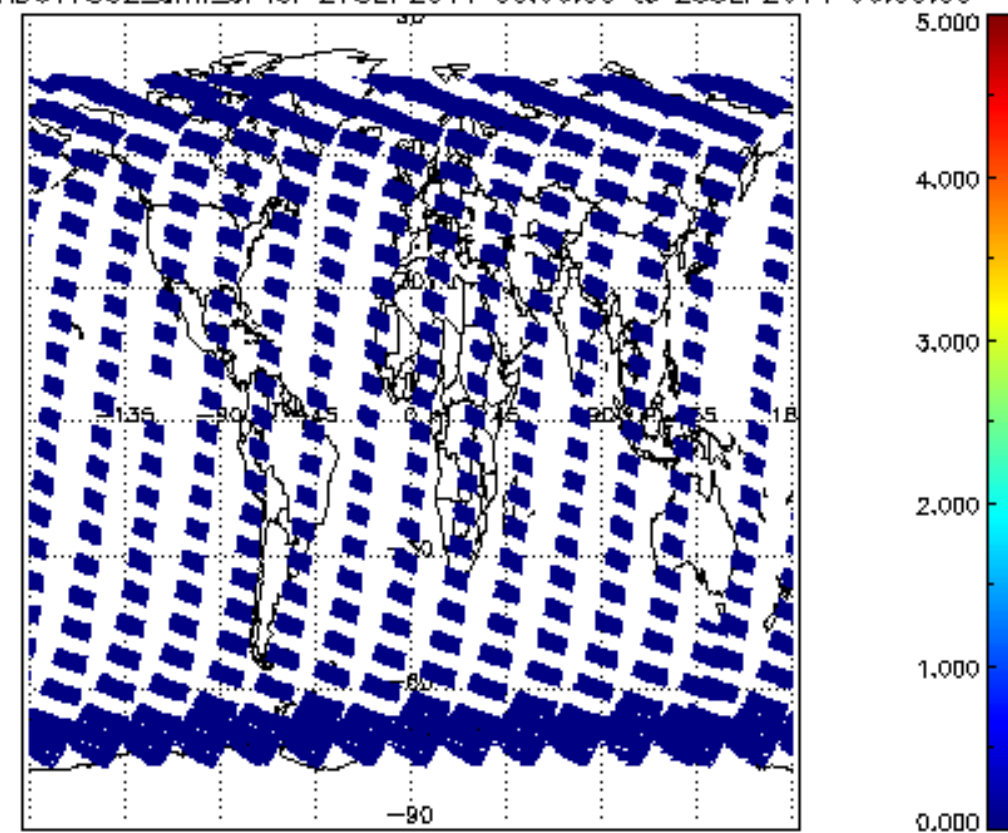
SCIOL2P_NADUV7S02_vcd_err for 27SEP2011 00:00:00 to 28SEP2011 00:00:00

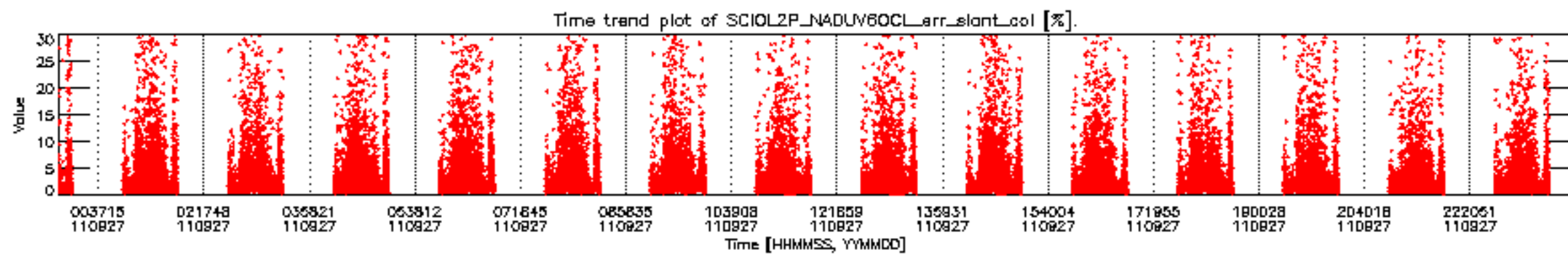
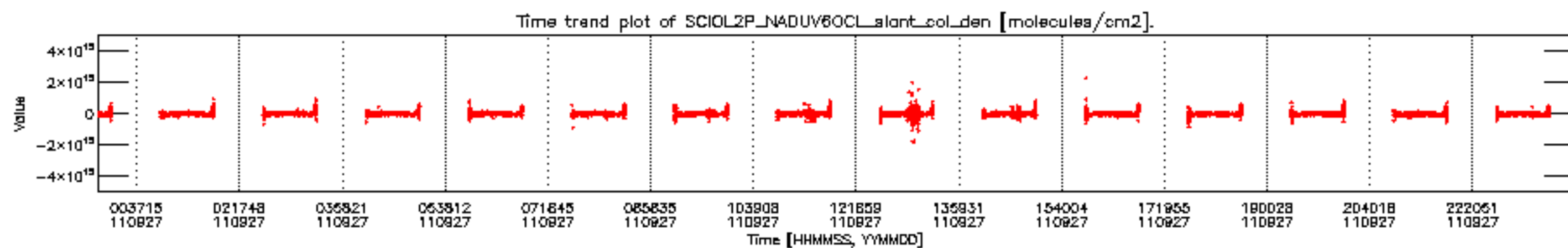


SCIOL2P_NADUV7S02_amf_gr for 27SEP2011 00:00:00 to 28SEP2011 00:00:00

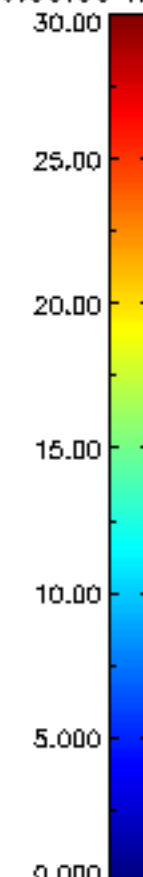
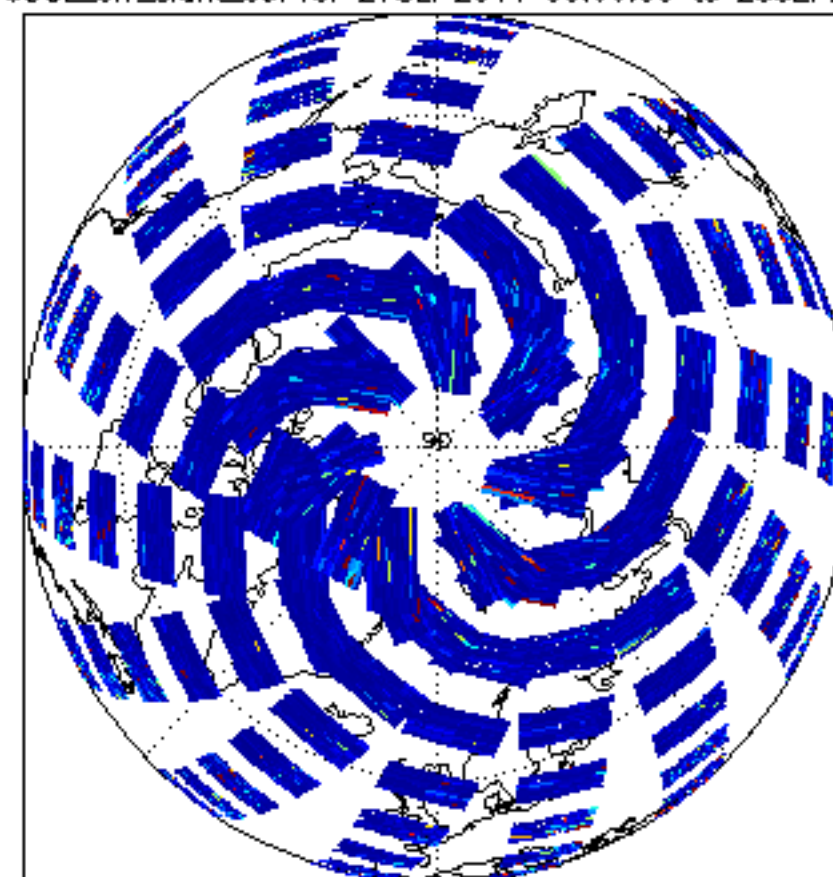
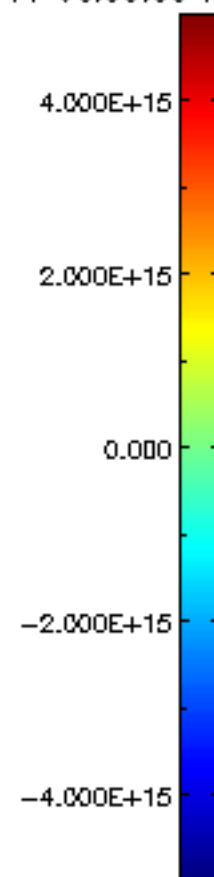
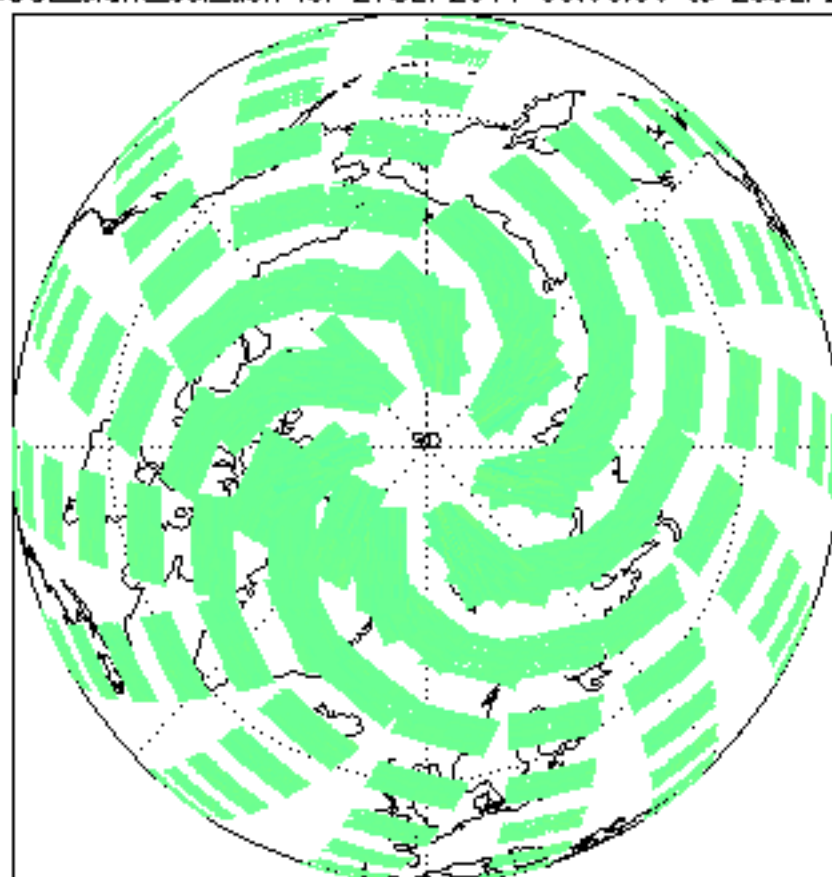


SCIOL2P_NADUV7S02_amf_cl for 27SEP2011 00:00:00 to 28SEP2011 00:00:00

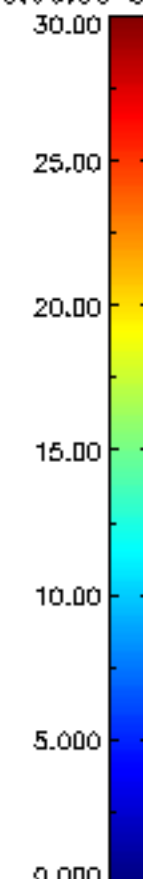
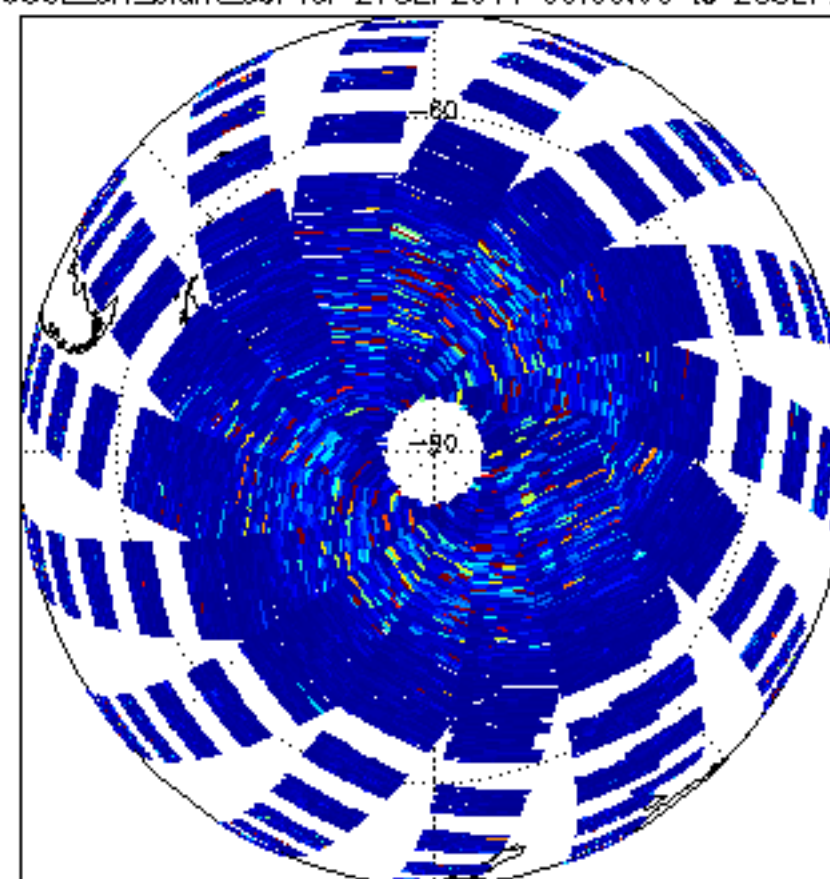
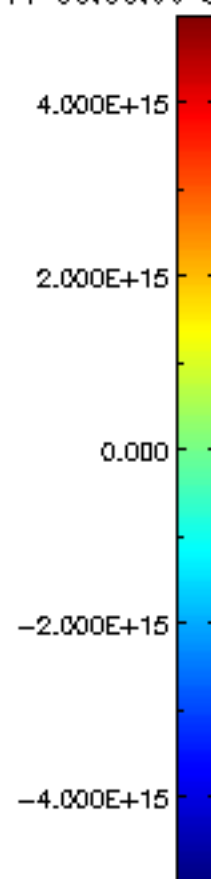
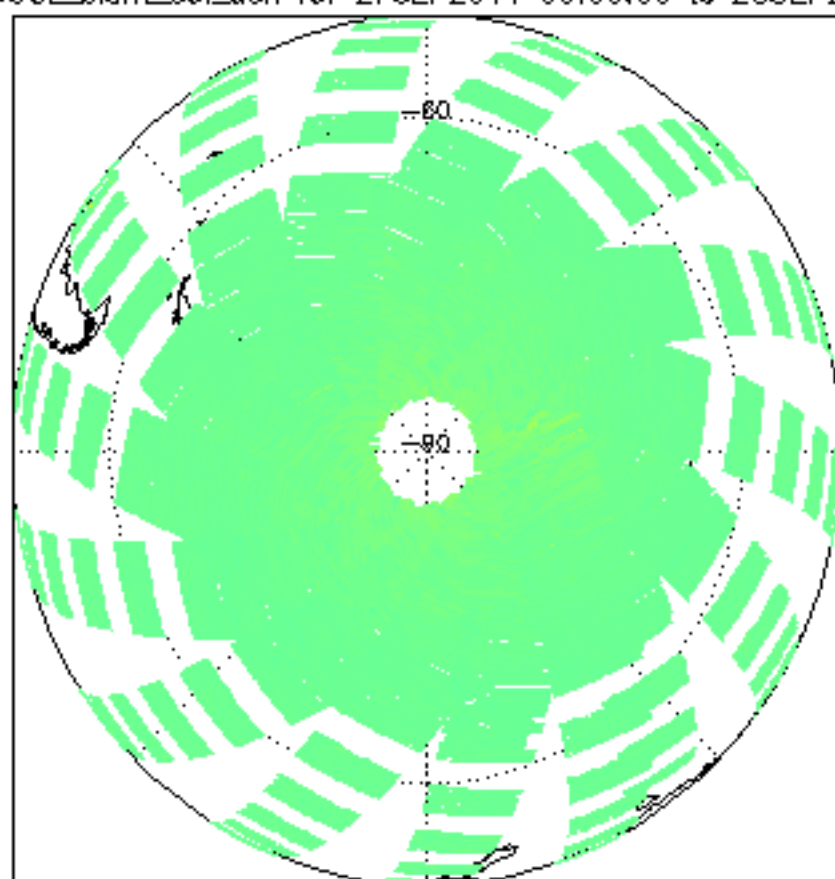




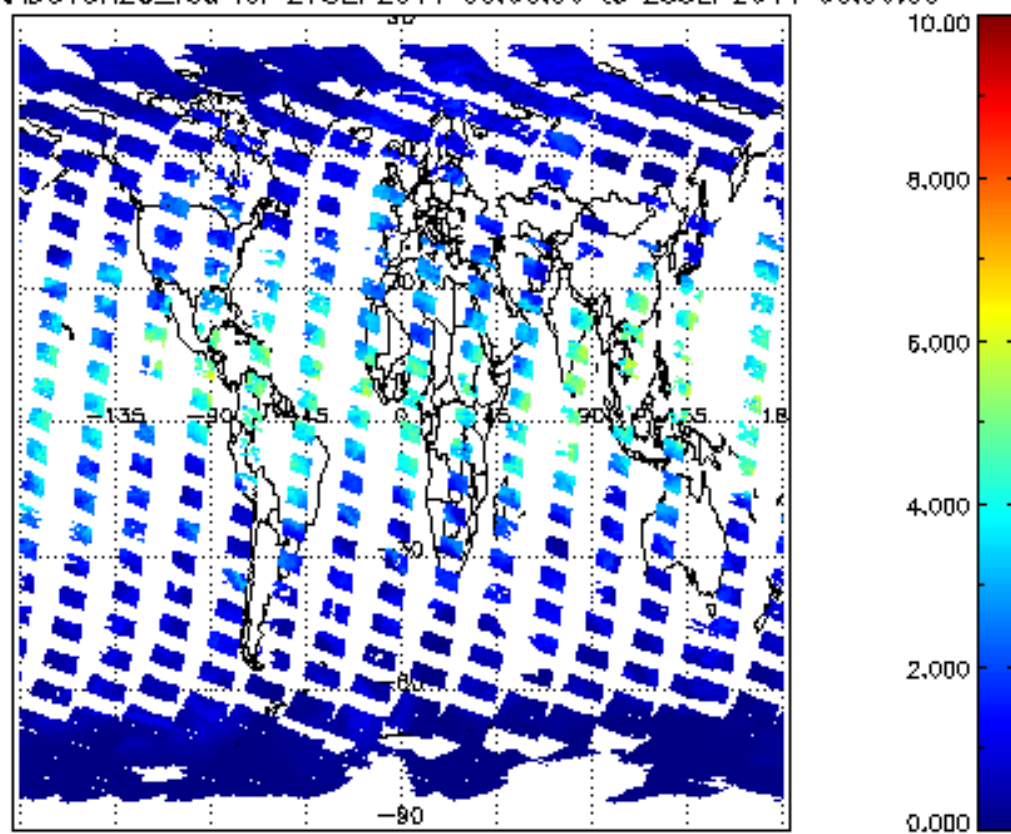
CIOL2P_NADUV60CL_slant_col_den for 27SEP2011 00:00:00 to 28SEP2011 00:00:00 np iCIOL2P_NADUV60CL_err_slant_col for 27SEP2011 00:00:00 to 28SEP2011 00:00:00 np



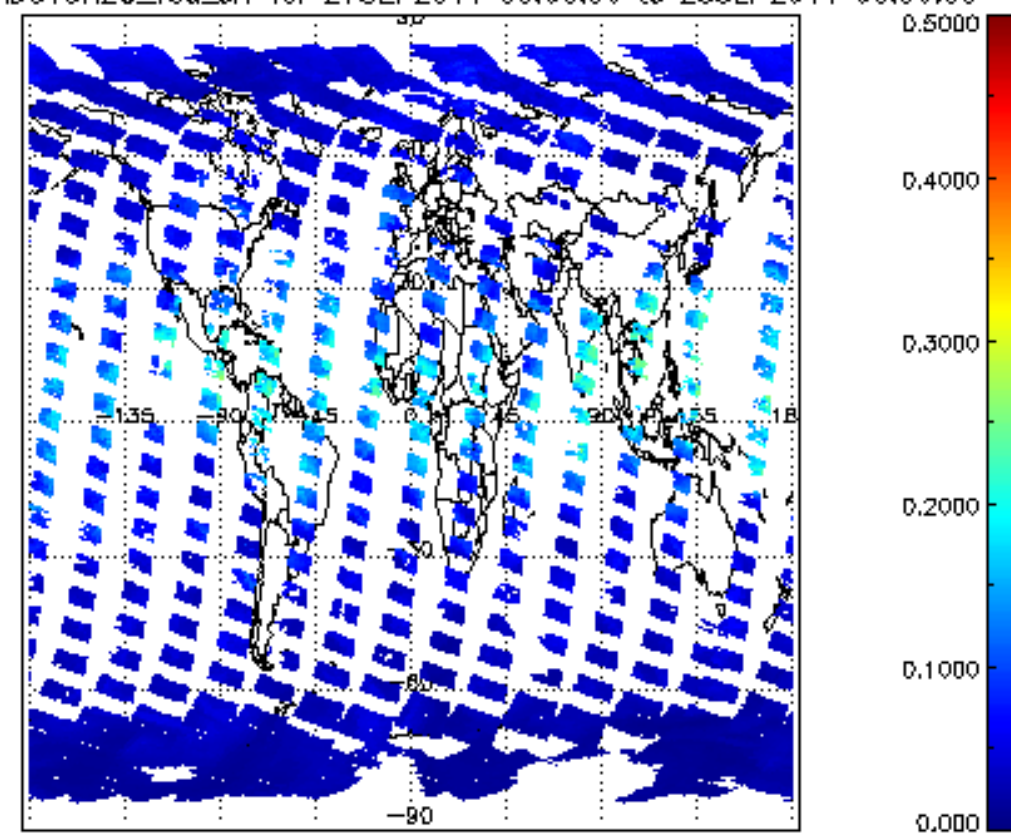
CIOL2P_NADUV60CL_slant_col_den for 27SEP2011 00:00:00 to 28SEP2011 00:00:00 sp iCIOL2P_NADUV60CL_err_slant_col for 27SEP2011 00:00:00 to 28SEP2011 00:00:00 sp



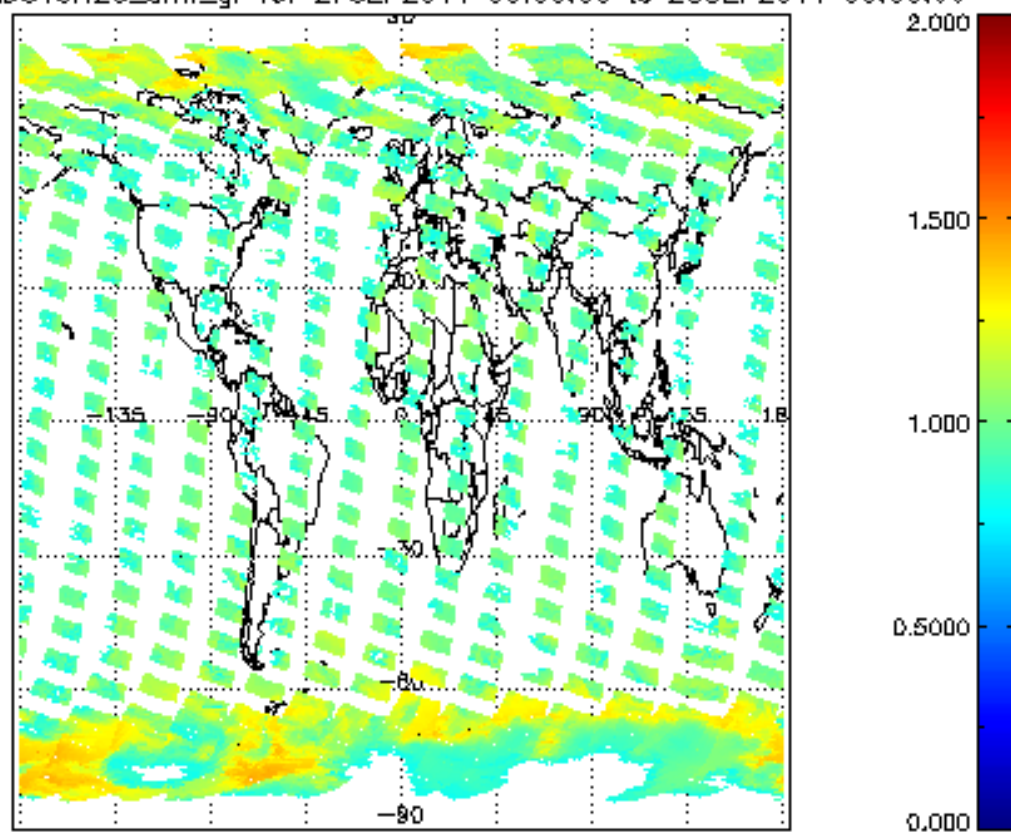
SCIOL2P_NADUV8H20_vcd for 27SEP2011 00:00:00 to 28SEP2011 00:00:00

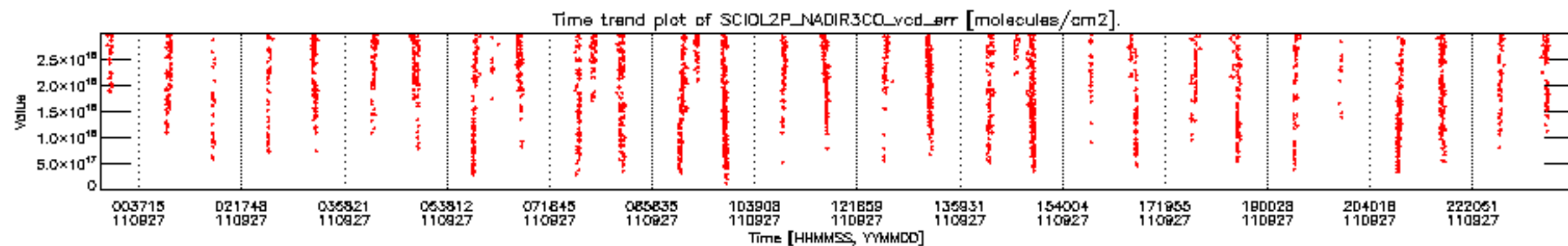
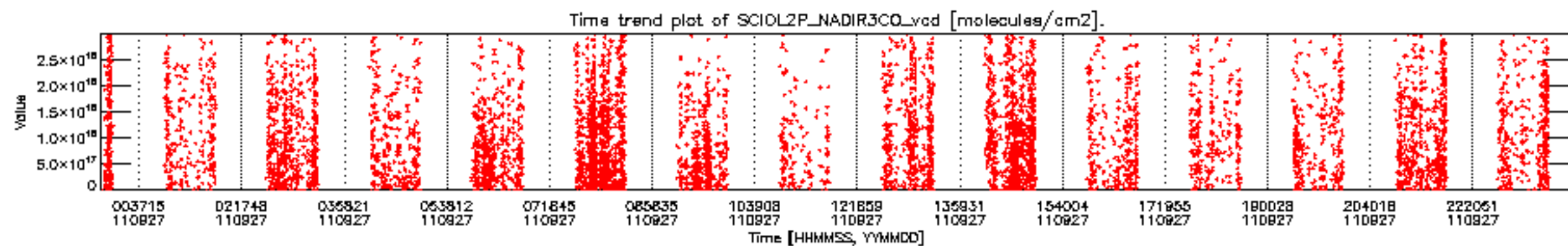


SCIOL2P_NADUV8H20_vcd_err for 27SEP2011 00:00:00 to 28SEP2011 00:00:00

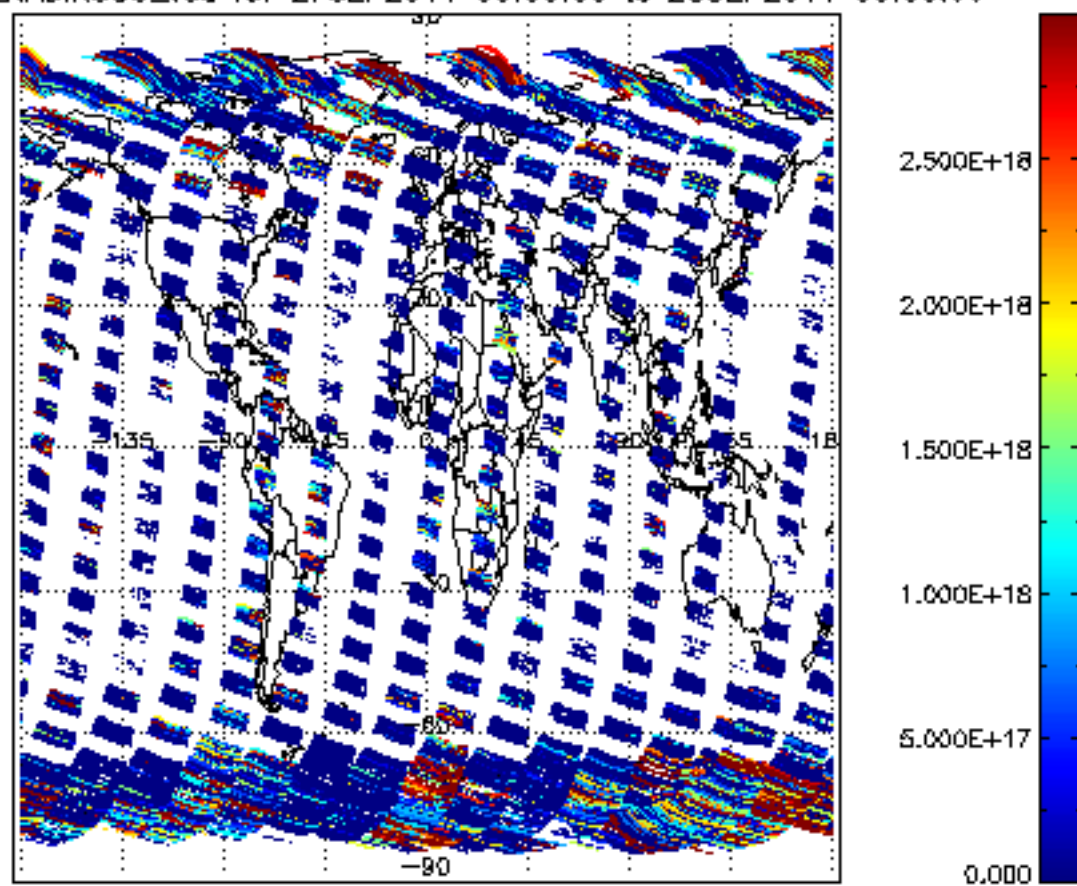


SCIOL2P_NADUV8H20_amf_gr for 27SEP2011 00:00:00 to 28SEP2011 00:00:00

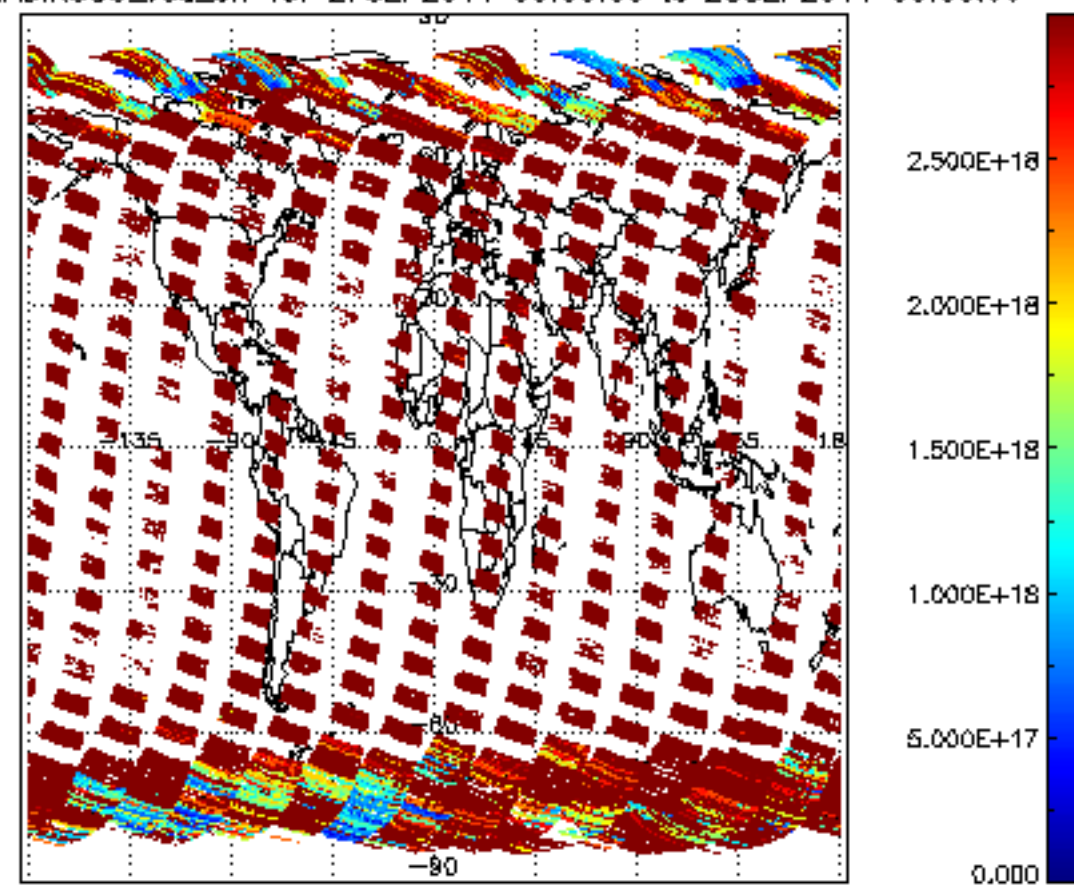




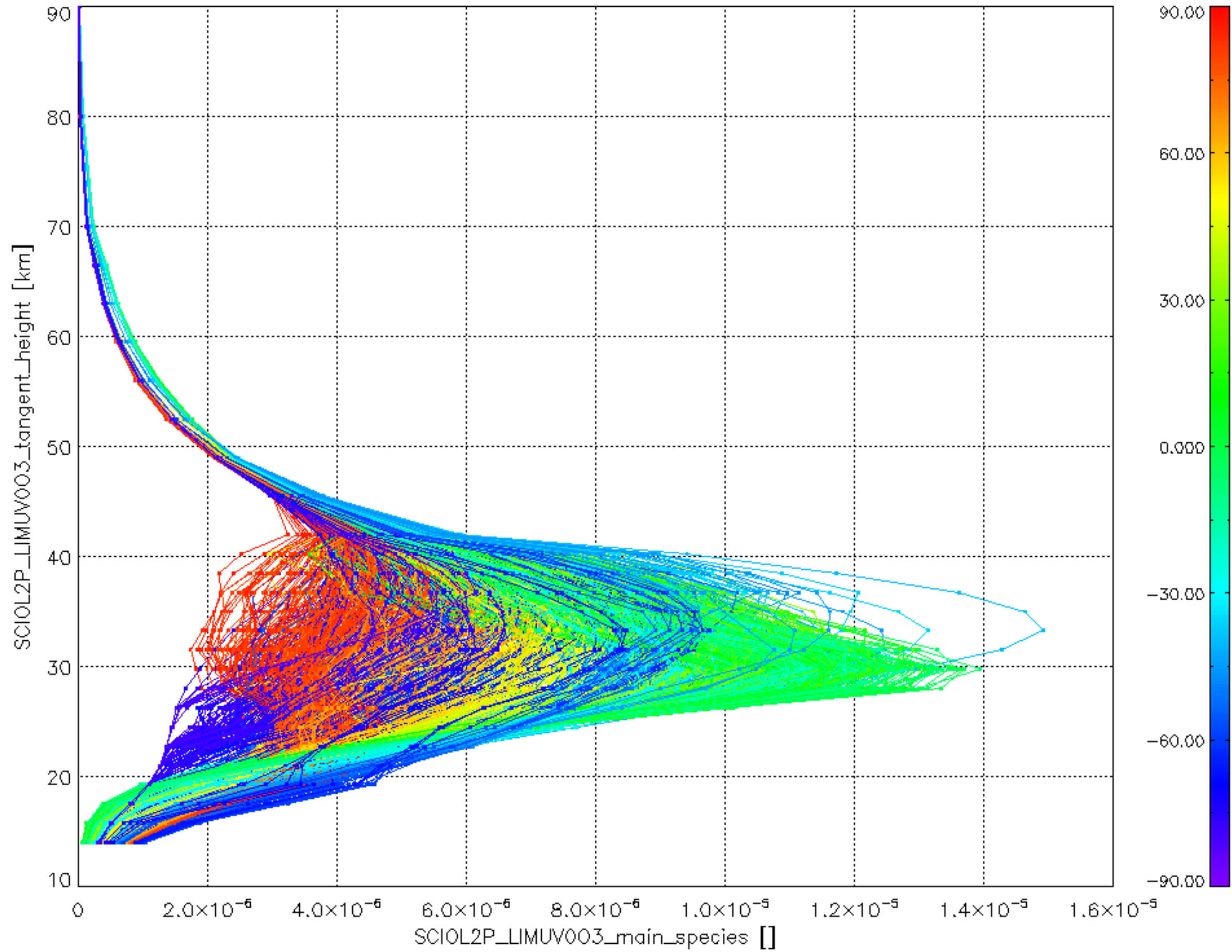
SCIOL2P_NADIR3CO_vcd for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



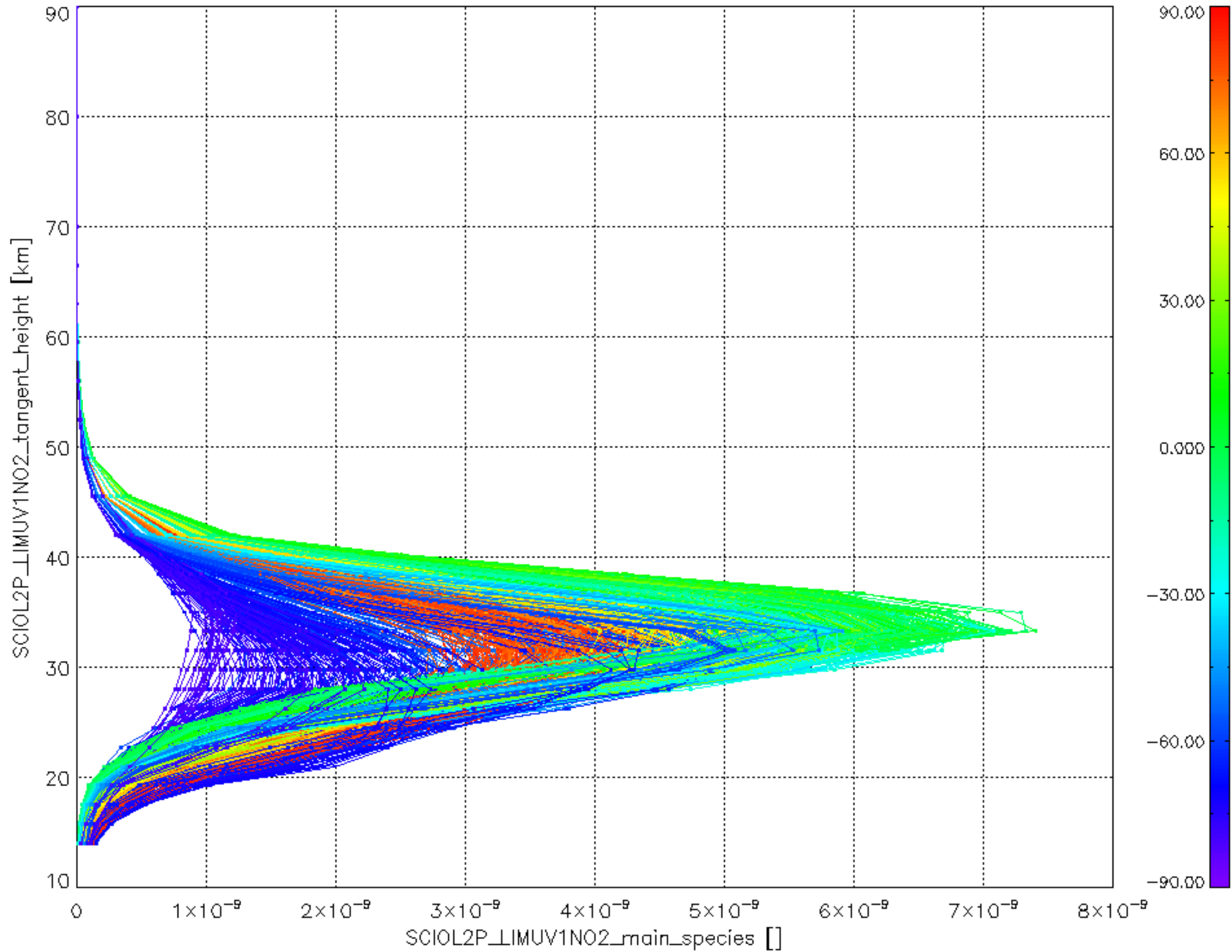
SCIOL2P_NADIR3CO_vcd_err for 27SEP2011 00:00:00 to 28SEP2011 00:00:00



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).

