

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	12OCT2011 03:20:30
Data source version	SCIA-OL/5.02-W
Processing scope for products	29SEP2011 00:00:00 to 30SEP2011 00:00:00
Start time of first product within scope	28SEP2011 23:41:56
Stop time of last product within scope	30SEP2011 00:03:00
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__2PWDPA20110928_234156_000034613107_00088_50102_5201.N1	28SEP2011 23:41:56	29SEP2011 00:39:38	0	GOOD
1	SCI_OL__2PWDPA20110929_012210_000035163107_00089_50103_5203.N1	29SEP2011 01:22:10	29SEP2011 02:20:46	0	GOOD
2	SCI_OL__2PWDPA20110929_030225_000034613107_00090_50104_5202.N1	29SEP2011 03:02:25	29SEP2011 04:00:07	0	GOOD
3	SCI_OL__2PWDPA20110929_044239_000035163107_00091_50105_5204.N1	29SEP2011 04:42:39	29SEP2011 05:41:15	0	GOOD
4	SCI_OL__2PWDPA20110929_062254_000034613107_00092_50106_5205.N1	29SEP2011 06:22:54	29SEP2011 07:20:36	0	GOOD

5	SCI_OL__2PWDP	20110929_080308_000035163107_00093_50107_5206.N1	29SEP2011 08:03:08	29SEP2011 09:01:44	0	GOOD
6	SCI_OL__2PWDP	20110929_094323_000034613107_00094_50108_5207.N1	29SEP2011 09:43:23	29SEP2011 10:41:05	0	GOOD
7	SCI_OL__2PWDP	20110929_112337_000035163107_00095_50109_5208.N1	29SEP2011 11:23:37	29SEP2011 12:22:13	0	GOOD
8	SCI_OL__2PWDP	20110929_130351_000004733107_00096_50110_5209.N1	29SEP2011 13:03:51	29SEP2011 13:11:44	0	GOOD
9	SCI_OL__2PWDP	20110929_144648_000033533107_00097_50111_5210.N1	29SEP2011 14:46:48	29SEP2011 15:42:42	0	GOOD
10	SCI_OL__2PWDP	20110929_162420_000034613107_00098_50112_5211.N1	29SEP2011 16:24:20	29SEP2011 17:22:02	0	GOOD
11	SCI_OL__2PWDP	20110929_180448_000034473107_00099_50113_5212.N1	29SEP2011 18:04:48	29SEP2011 19:02:16	0	GOOD
12	SCI_OL__2PWDP	20110929_194503_000034613107_00100_50114_5213.N1	29SEP2011 19:45:03	29SEP2011 20:42:44	0	GOOD
13	SCI_OL__2PWDP	20110929_212504_000035163107_00101_50115_5214.N1	29SEP2011 21:25:04	29SEP2011 22:23:40	0	GOOD
14	SCI_OL__2PWDP	20110929_230518_000034613107_00102_50116_5215.N1	29SEP2011 23:05:18	30SEP2011 00:03:00	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: 134602

Total number of cloud data DSRs with good quality flag (=0): 134602 (100.0 %)

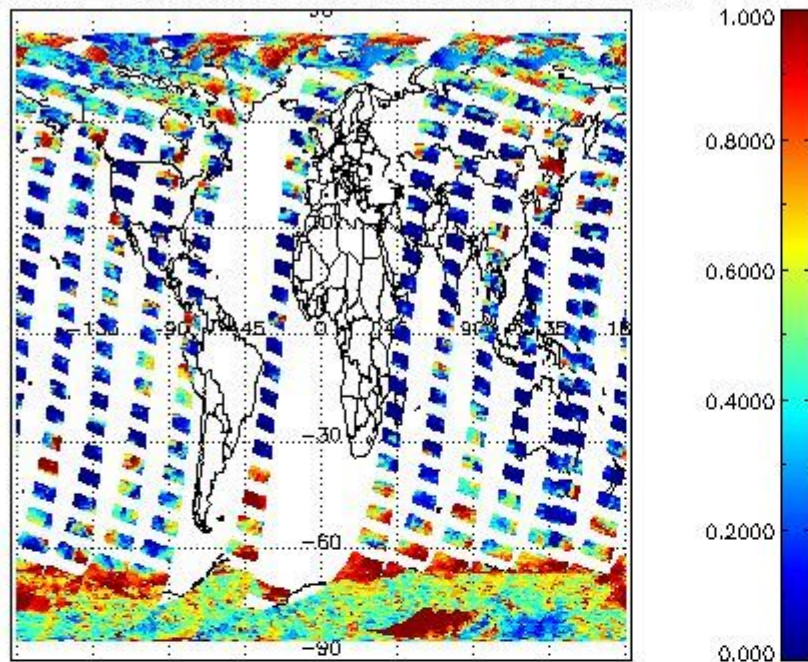
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	134602	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	134602	0.16678	0.12500	0.12500	0.25000	0.058967	s
CL_FRAC	134602	0.43450	0.41750	0.0000	1.0000	0.32622	
CL_FRAC_ERR	134602	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	134602	5.3370	4.0000	4.0000	8.0000	1.8869	
PMD_READ_CL[0]	134602	0.52066	0.0000	0.0000	8.0000	1.3467	-
PMD_READ_CL[1]	134602	1.3929	0.0000	0.0000	8.0000	2.6917	-
CL_TOP_HEIGHT	107285	3.7655	2.0672	0.0000	17.000	4.1584	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	107285	60.846	75.826	0.0000	101.00	42.003	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	134602	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	134602	11001100	11000100	11000000	11100000	3547.0	
AERO_ABSO_IND	134602	0.18564	0.0000	0.0000	6.0801	0.43861	
AERO_IND_DIAG	134602	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	134602	01010110	00000000	00000000	11000000	24449.	

Time and geolocation plots:

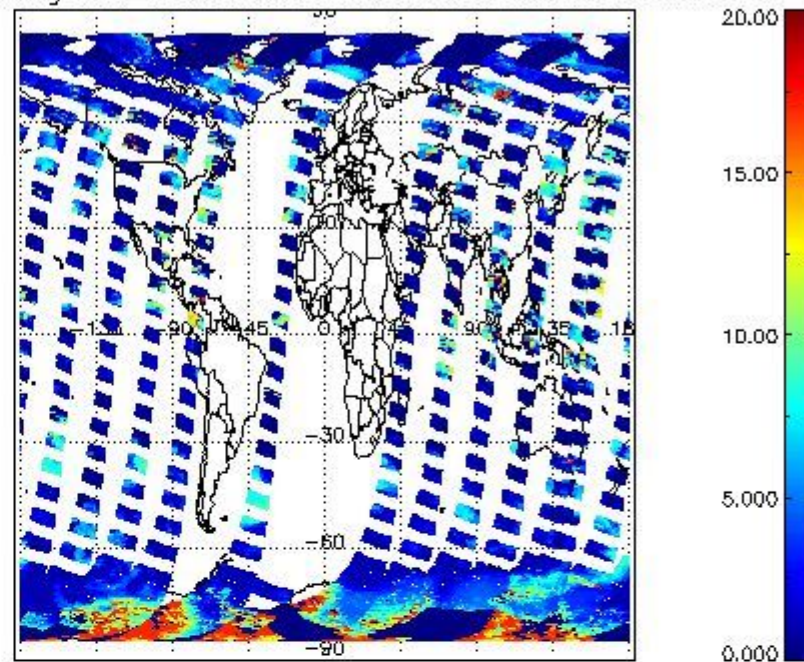
Plots are available for the following parameters:

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

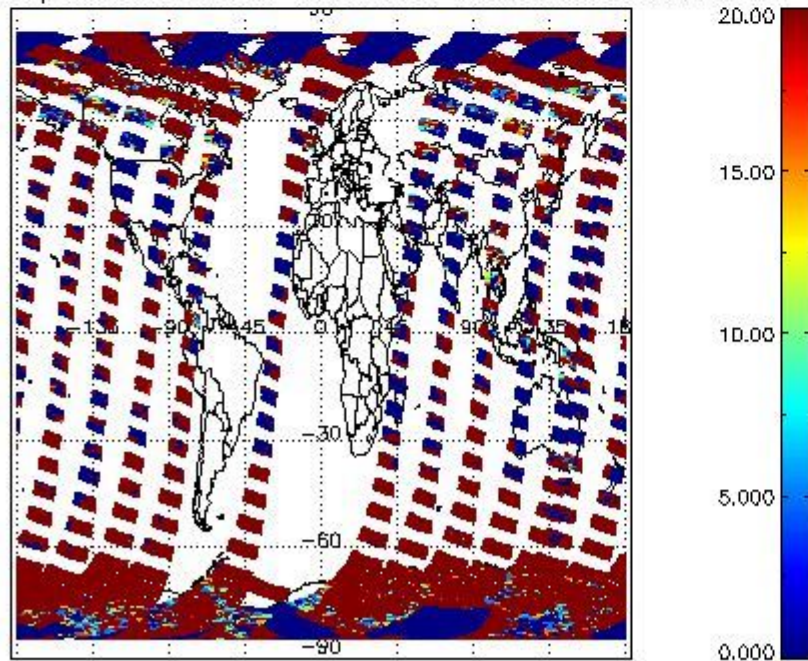
cL_frac for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



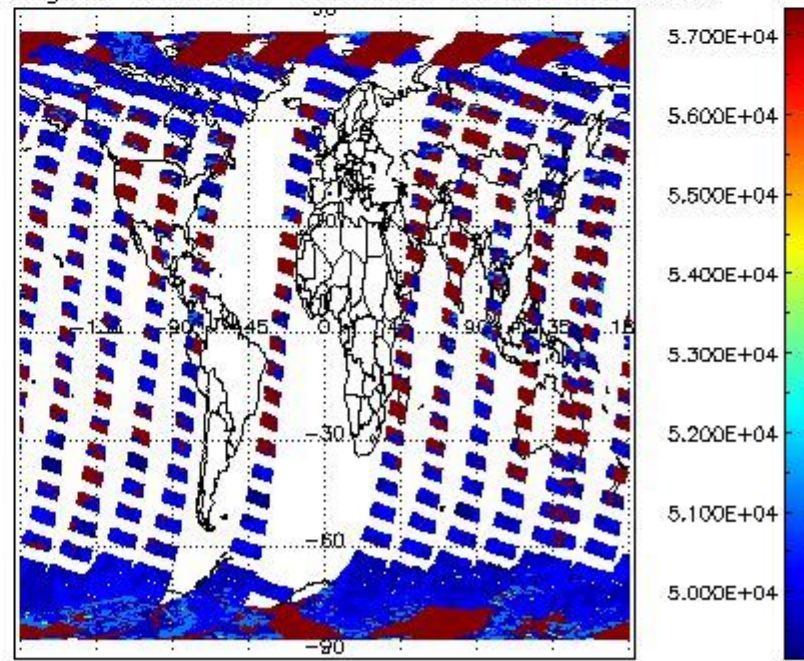
cL_top_height for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



cL_opt_depth for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



cloud_flags for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



2.2.2 Nadir

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

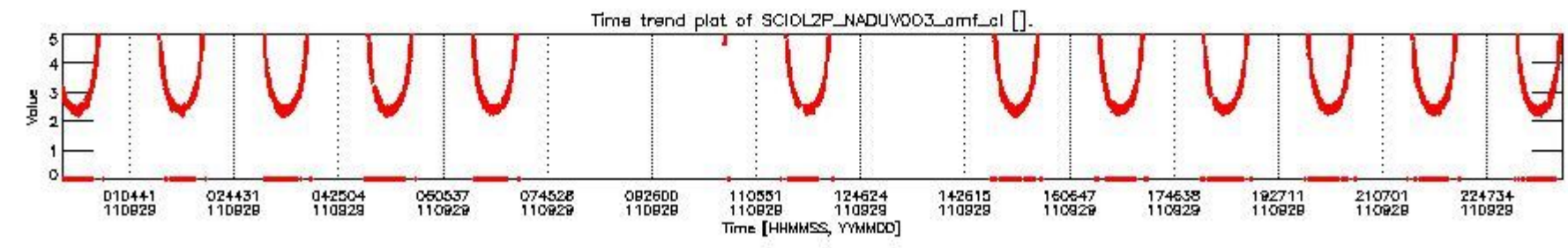
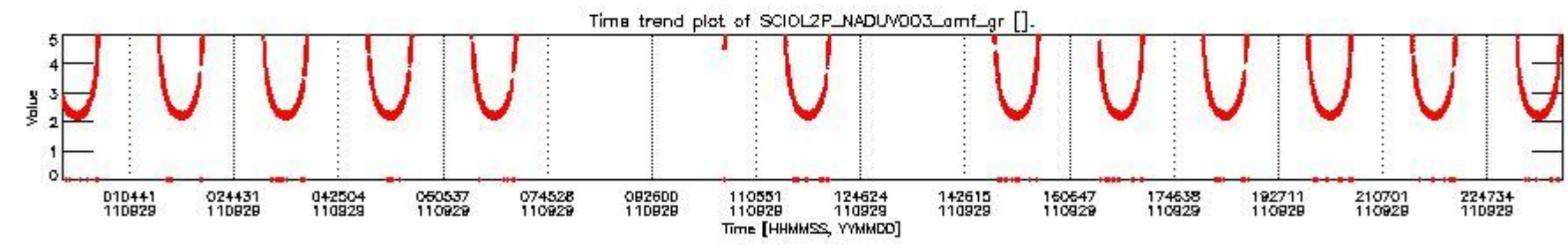
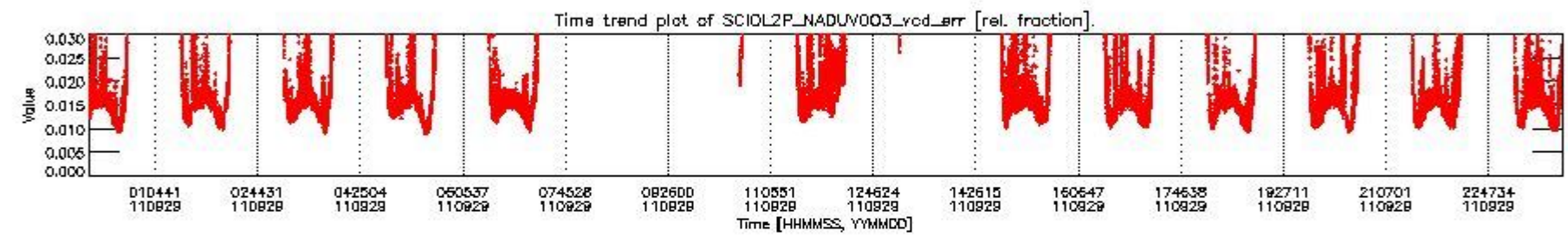
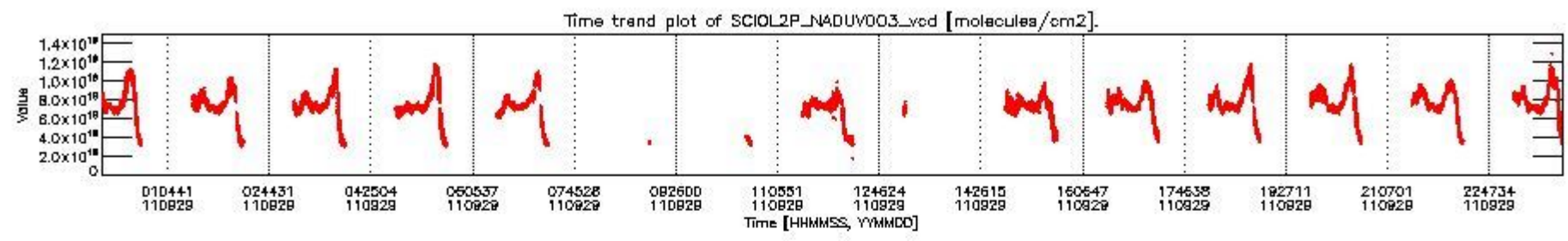
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

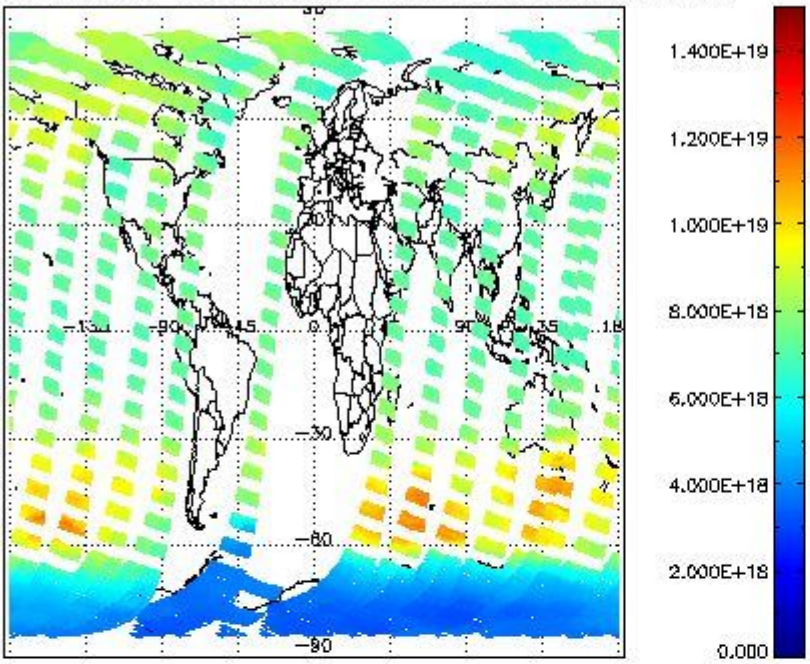
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

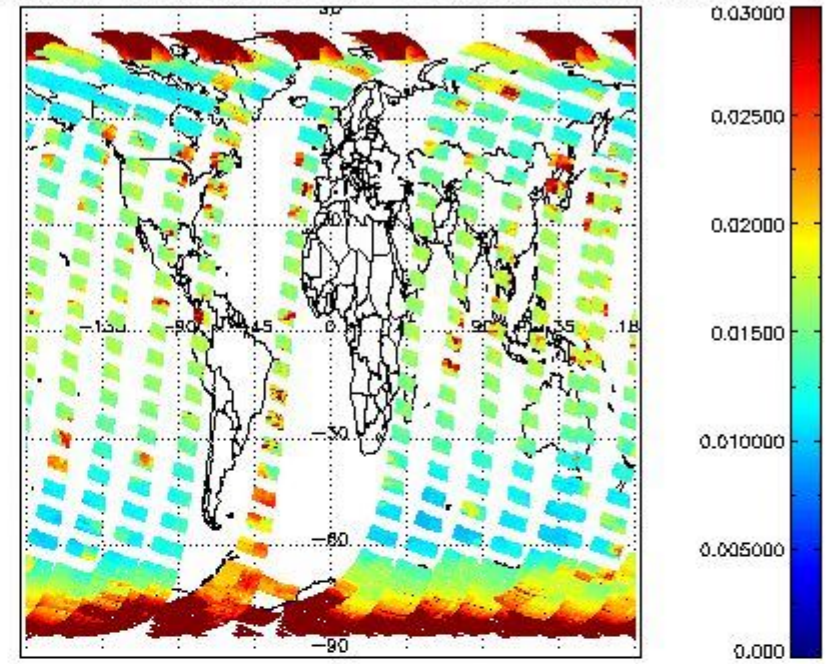
2.2.2.1 O3 (UV0)



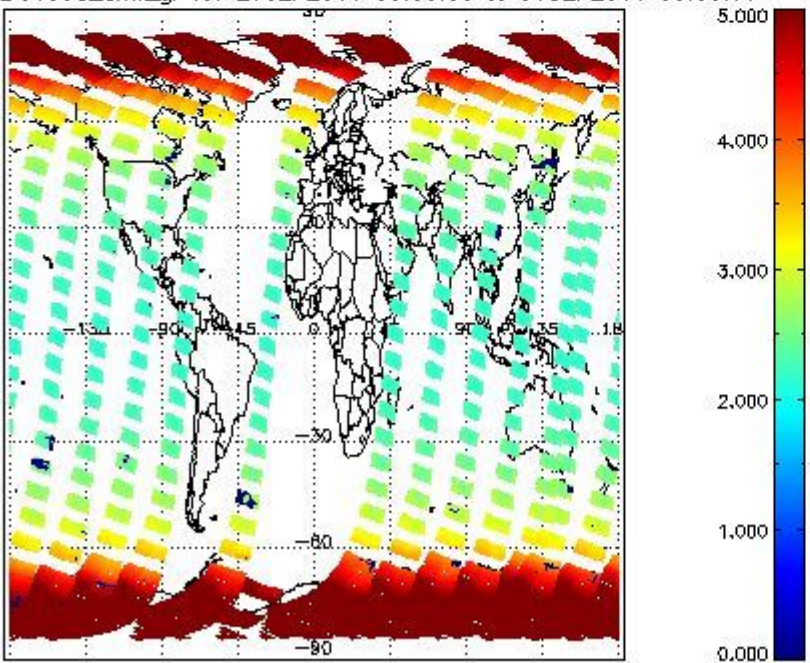
SCIOL2P_NADUV003_vcd for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



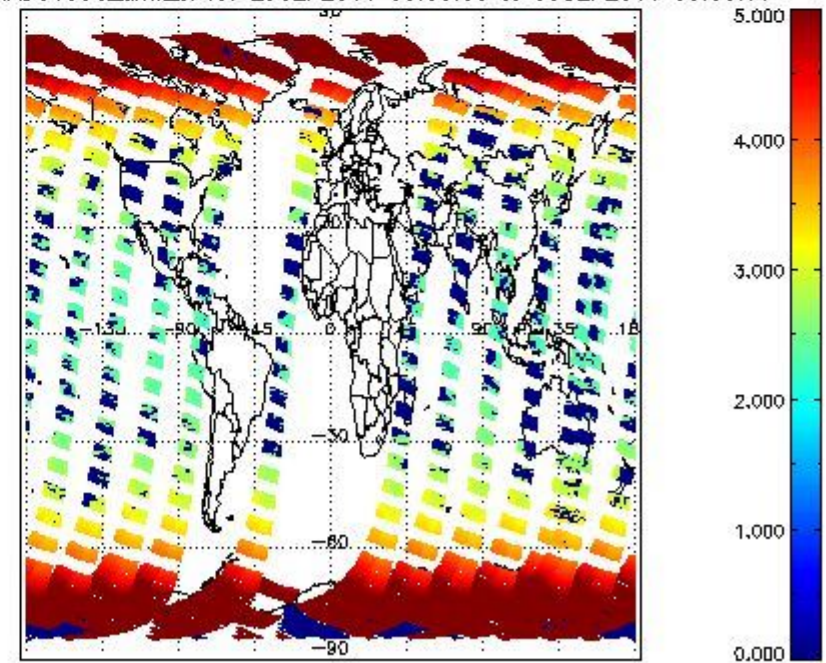
SCIOL2P_NADUV003_vcd_err for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



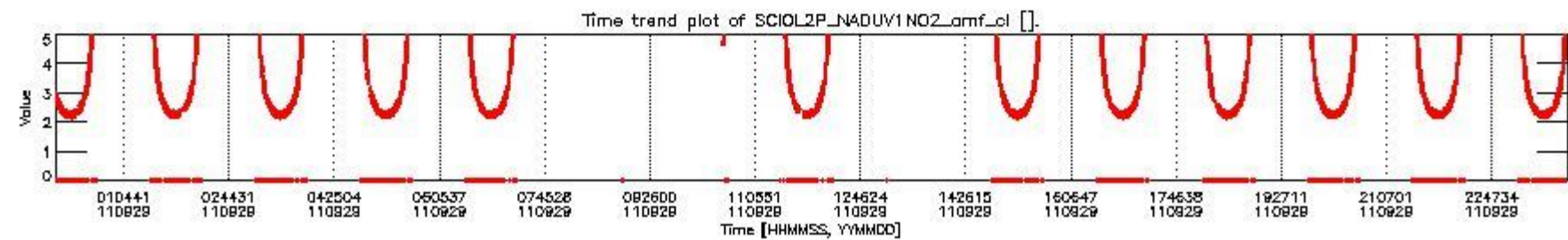
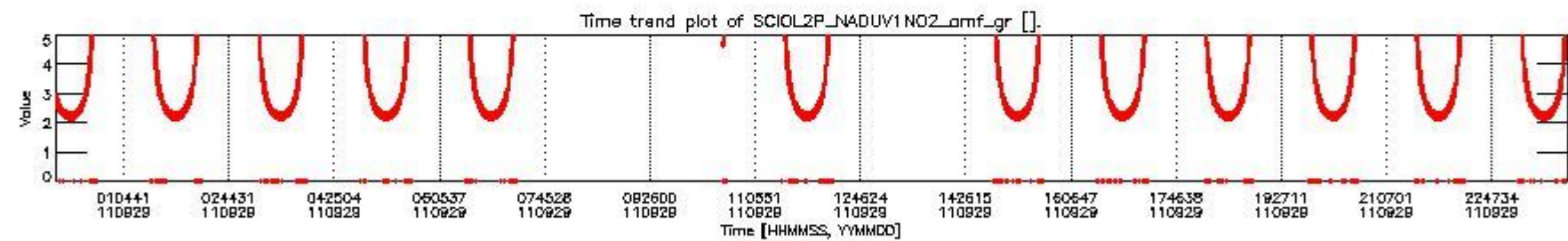
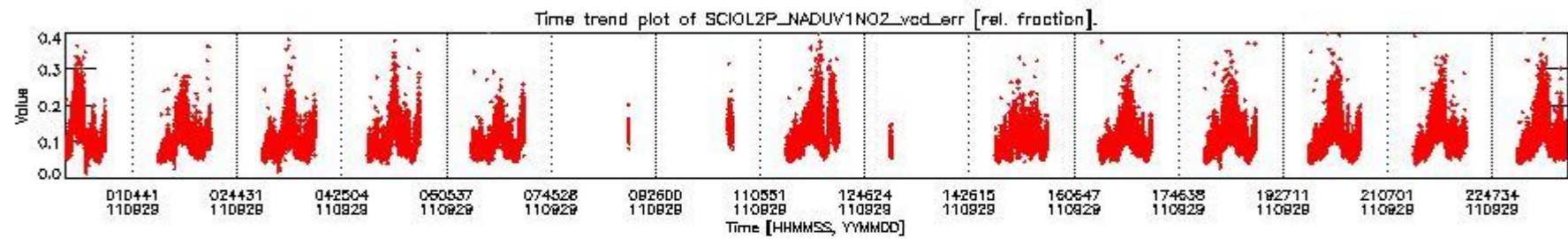
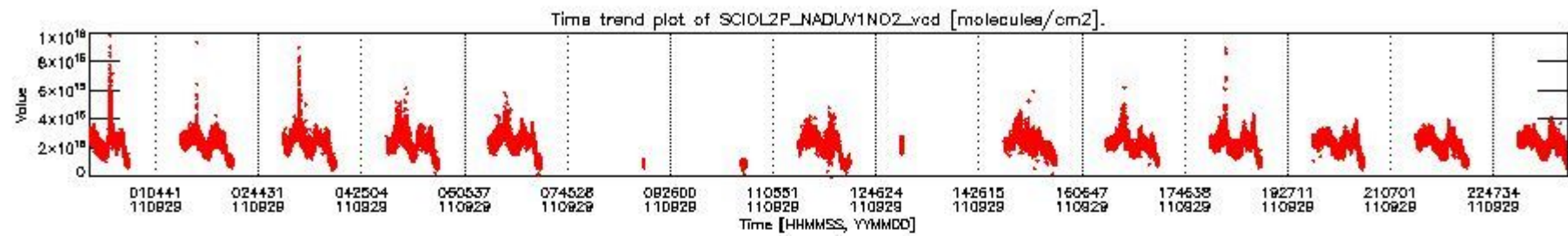
SCIOL2P_NADUV003_amf_gr for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



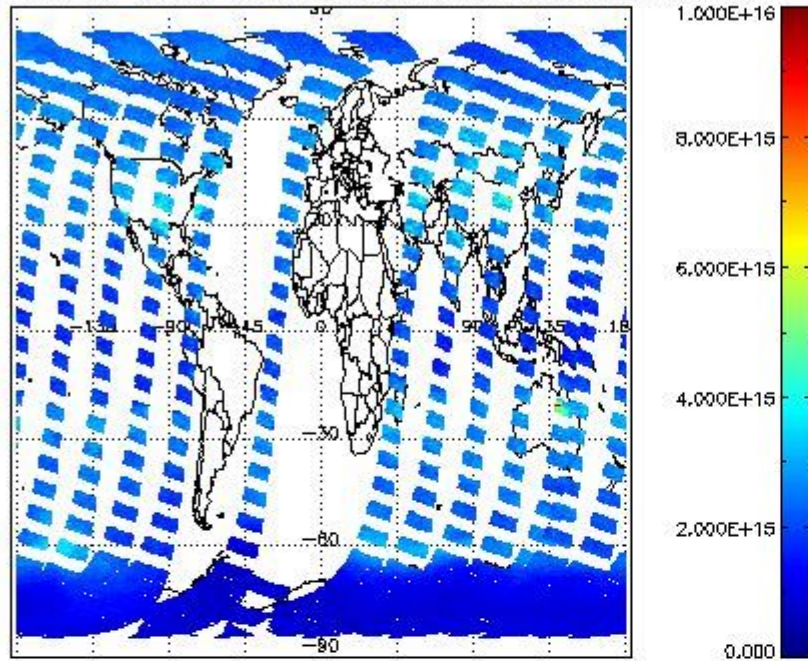
SCIOL2P_NADUV003_amf_cl for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



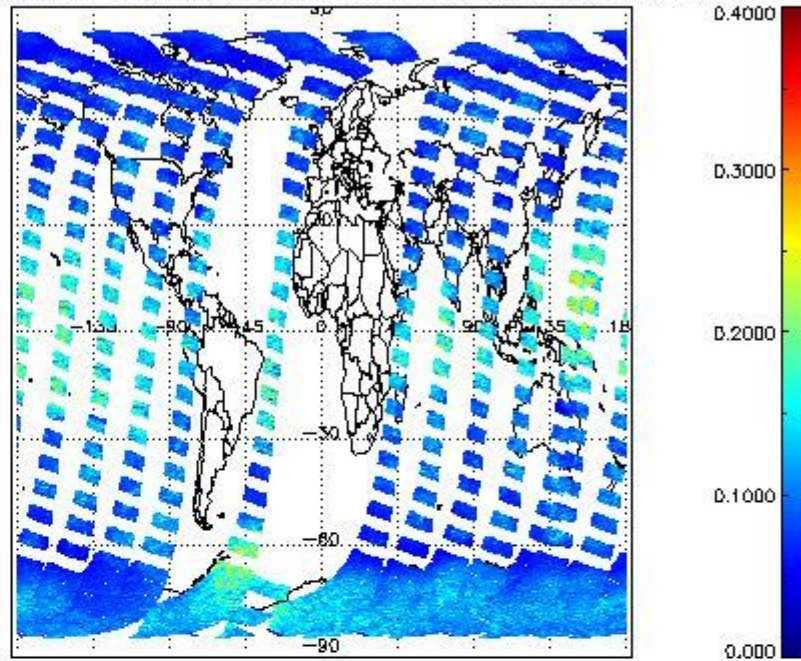
2.2.2.2 NO2 (UV1)



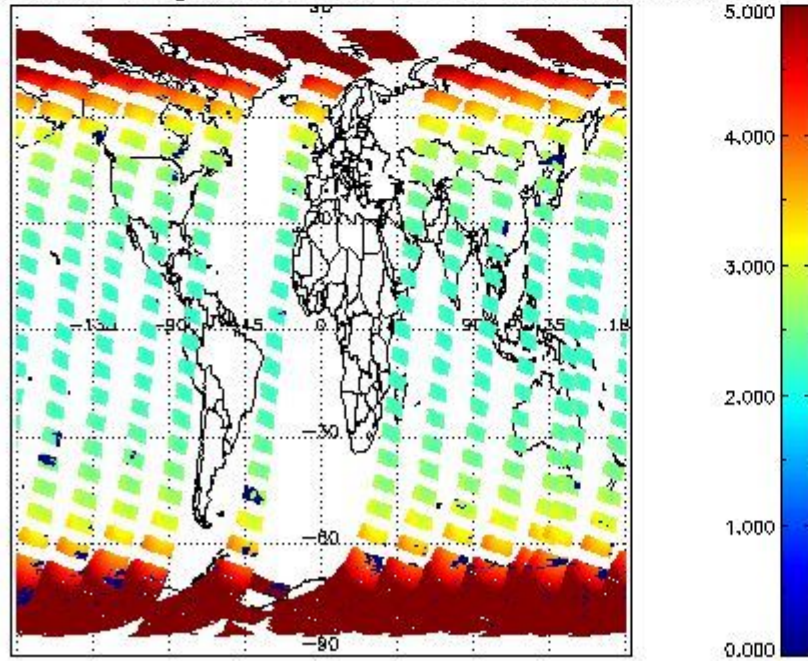
SCIOL2P_NADUV1N02_vcd for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



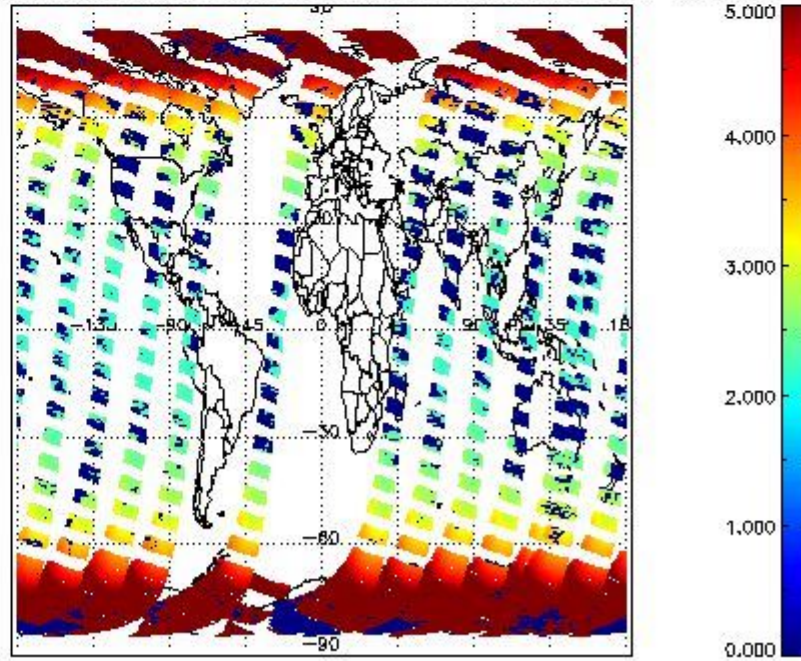
SCIOL2P_NADUV1N02_vcd_err for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



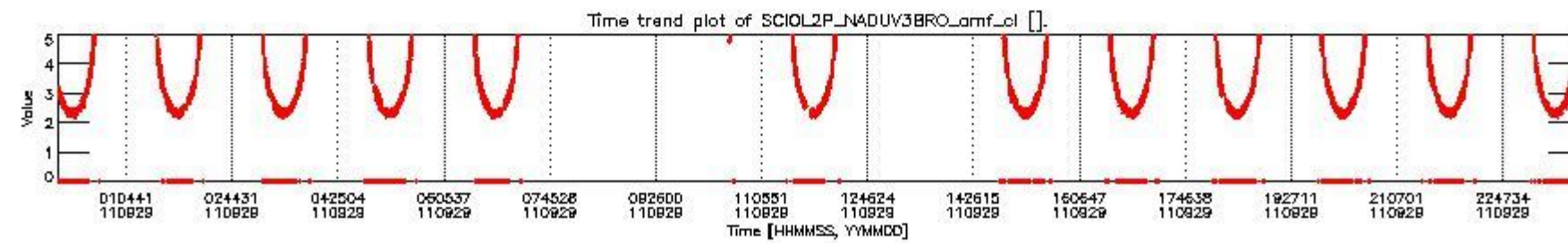
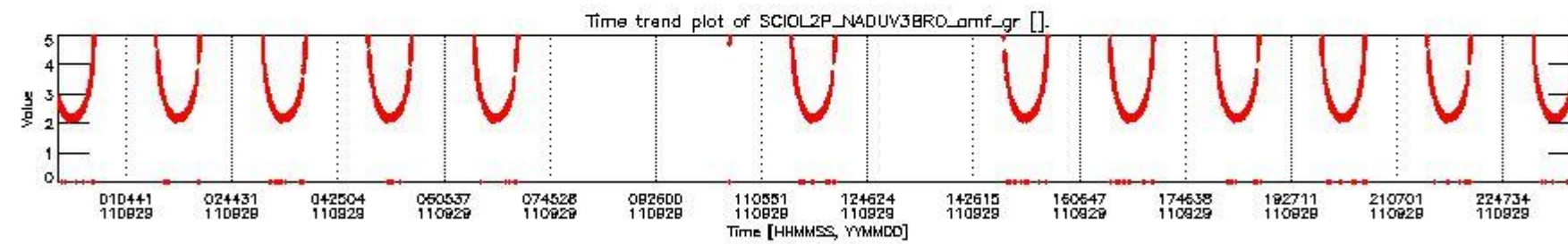
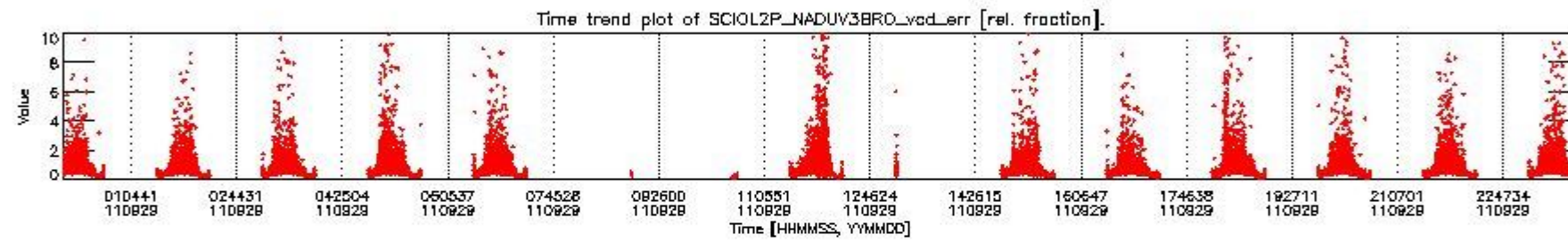
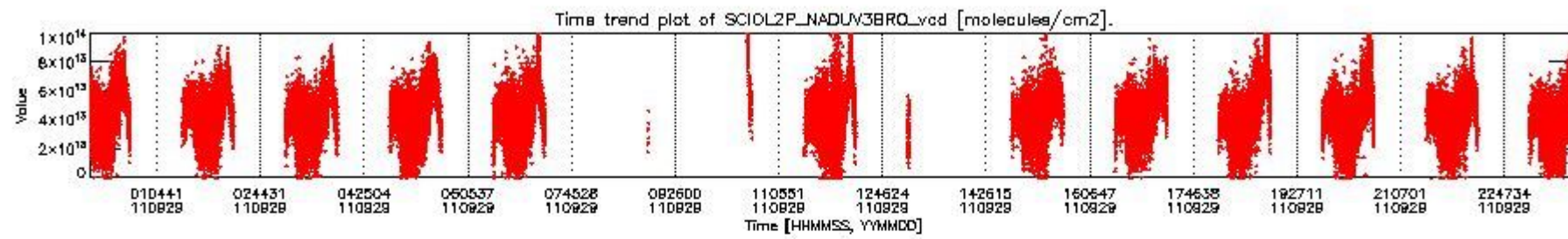
SCIOL2P_NADUV1N02_amf_gr for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



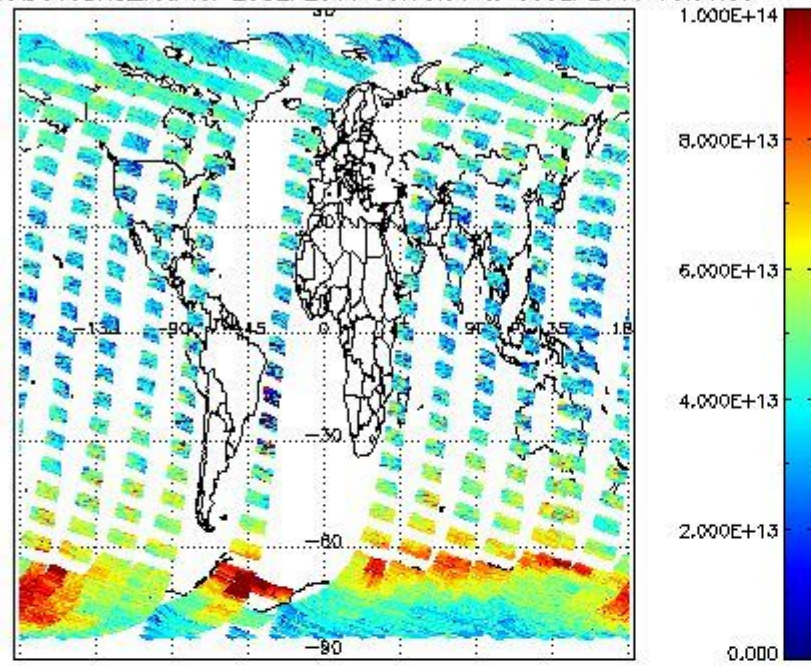
SCIOL2P_NADUV1N02_amf_cl for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



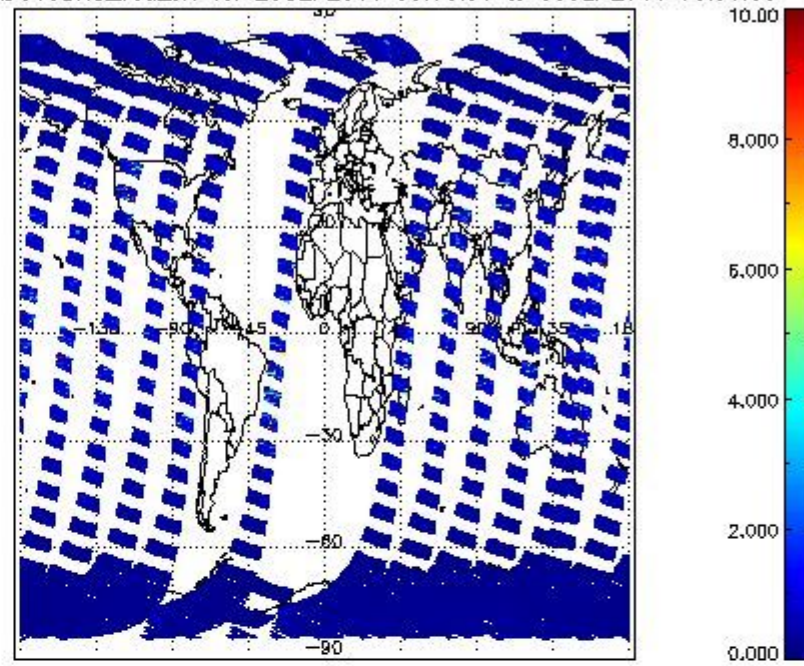
2.2.2.3 BrO (UV3)



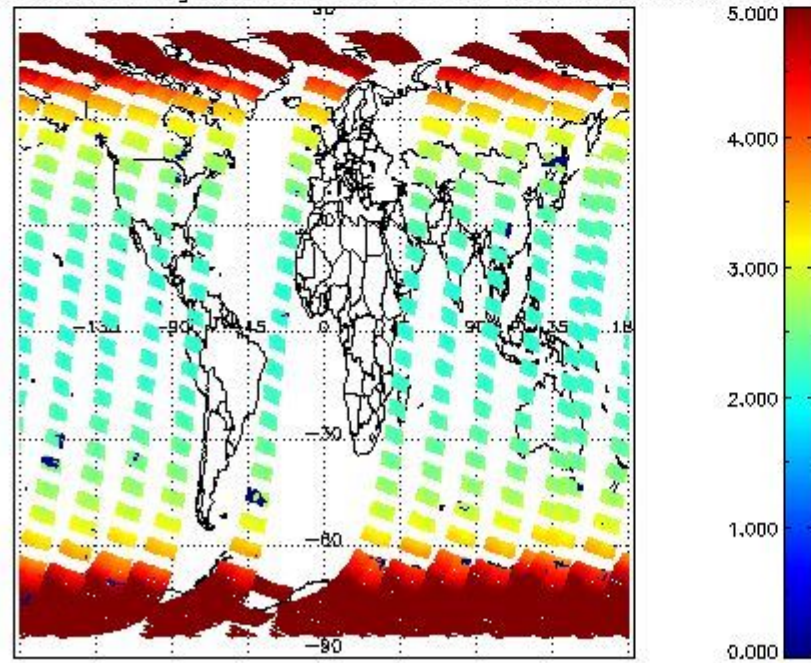
SCIOL2P_NADUV3BRO_vcd for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



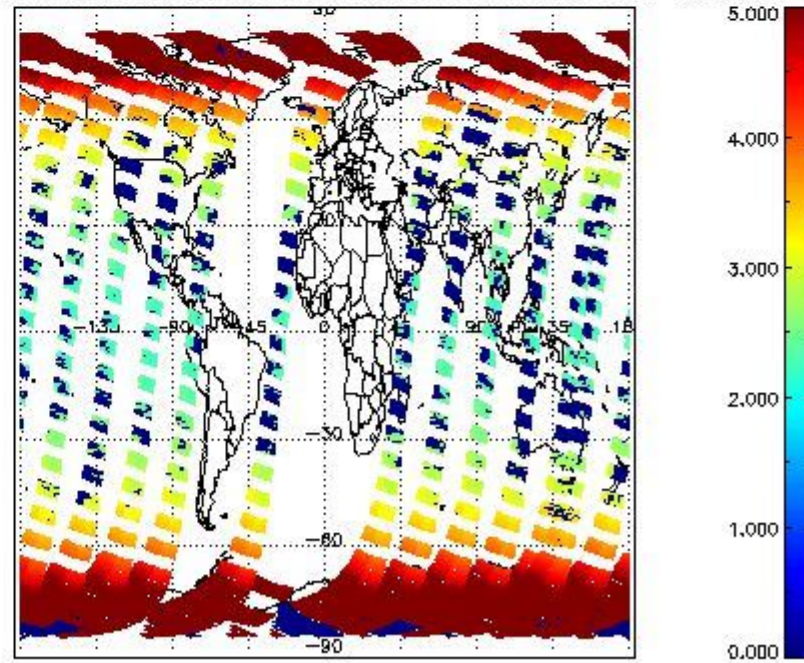
SCIOL2P_NADUV3BRO_vcd_err for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



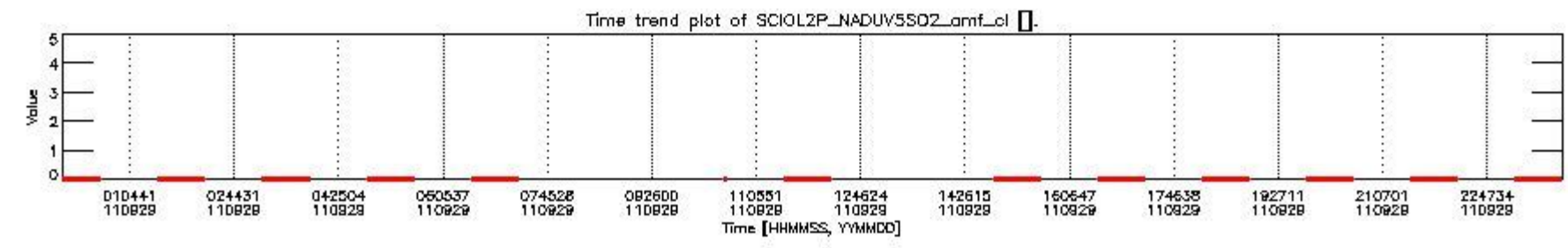
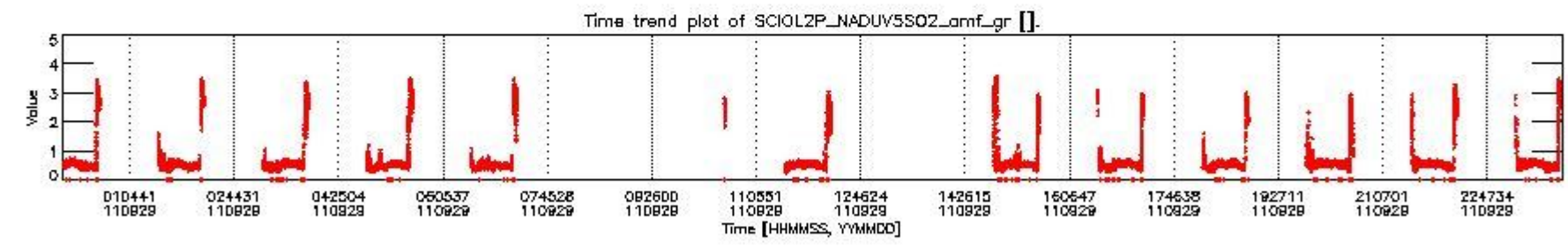
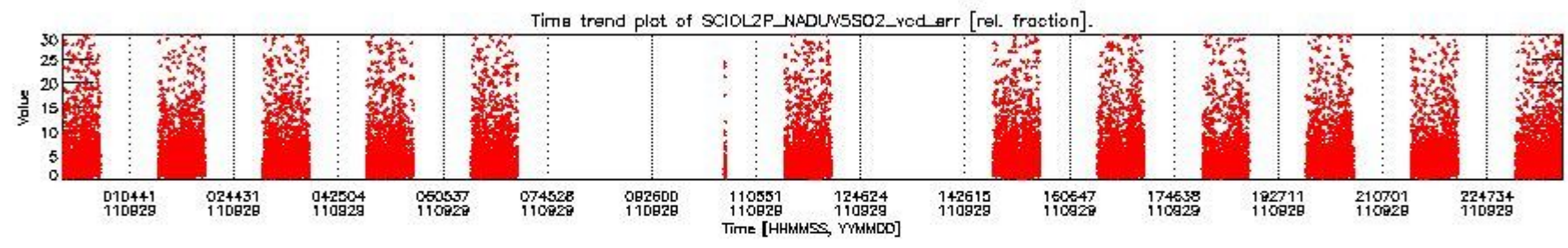
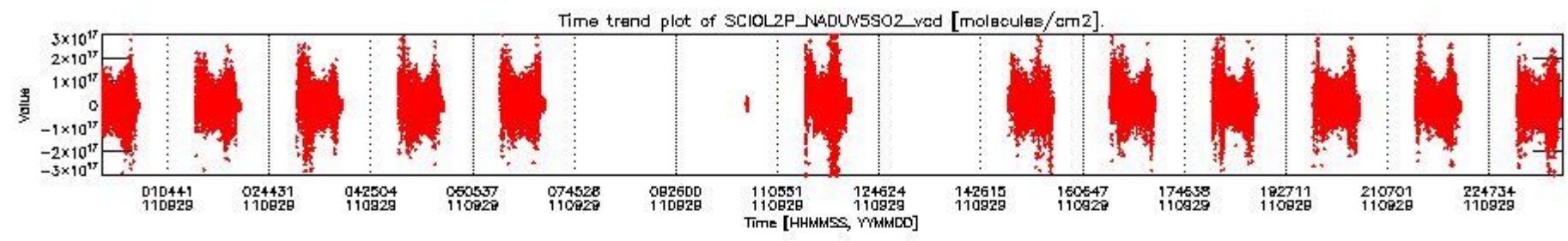
SCIOL2P_NADUV3BRO_amf_gr for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



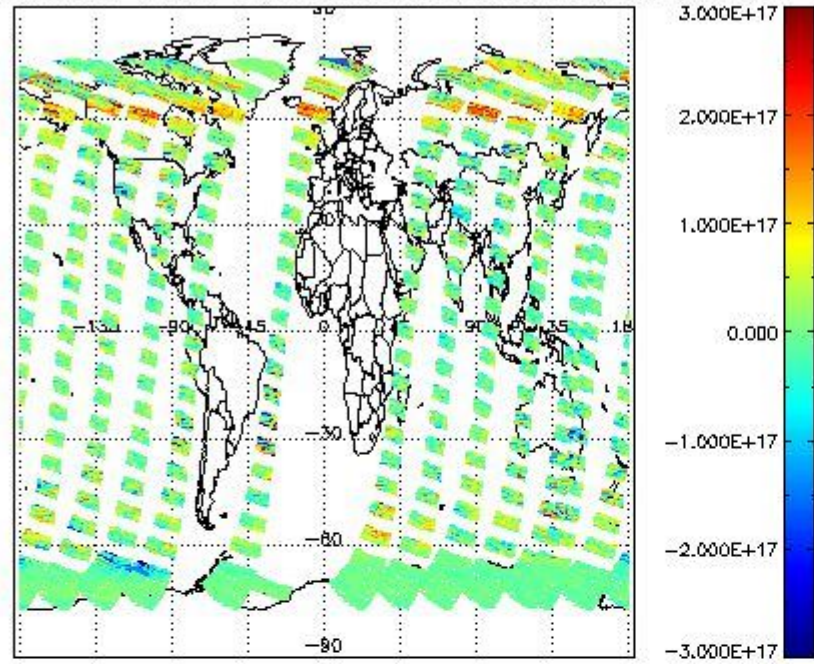
SCIOL2P_NADUV3BRO_amf_cl for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



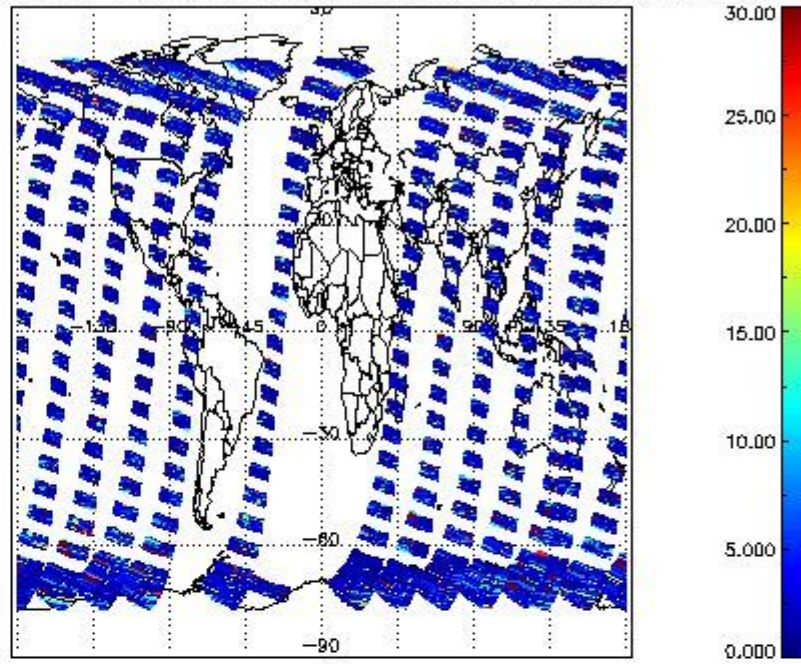
2.2.2.4 SO2 (UV5)



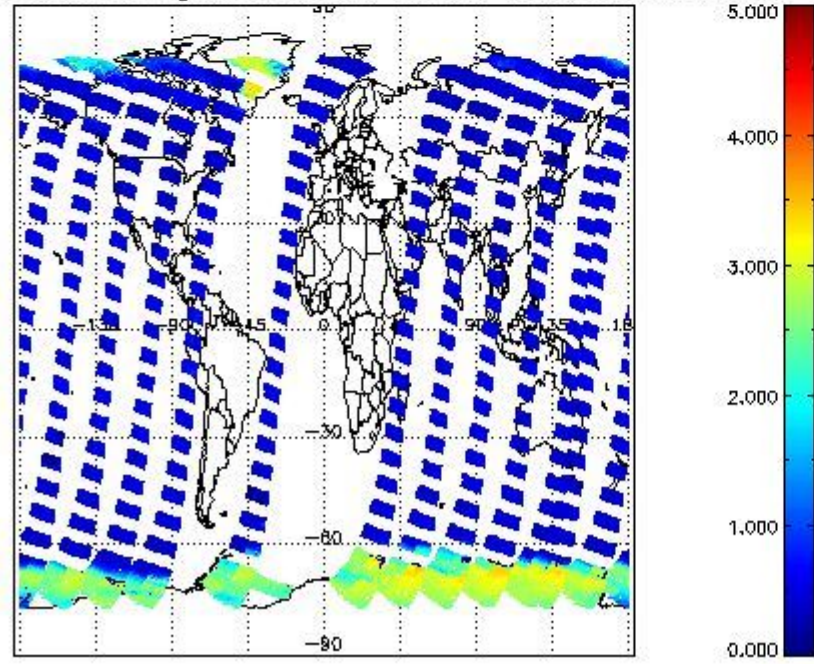
SCIOL2P_NADUV5S02_vcd for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



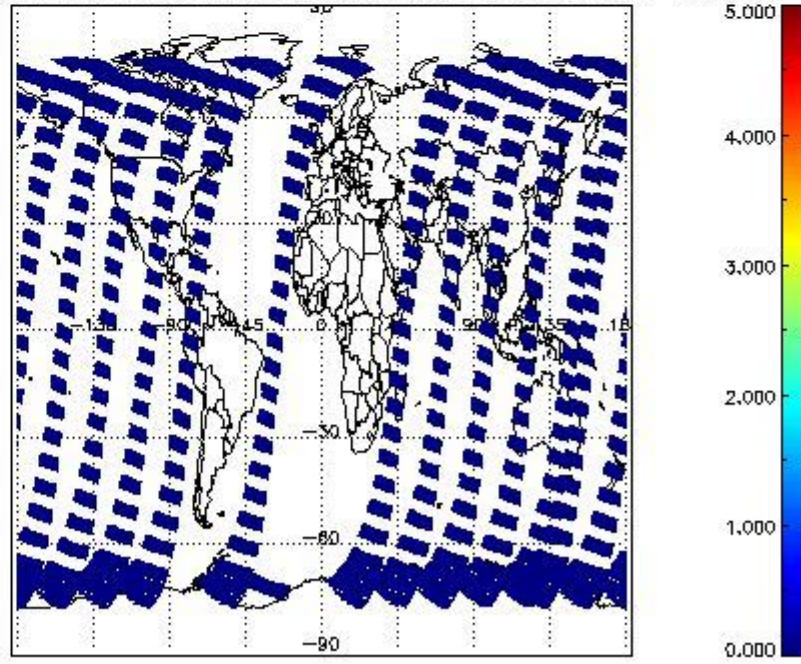
SCIOL2P_NADUV5S02_vcd_err for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



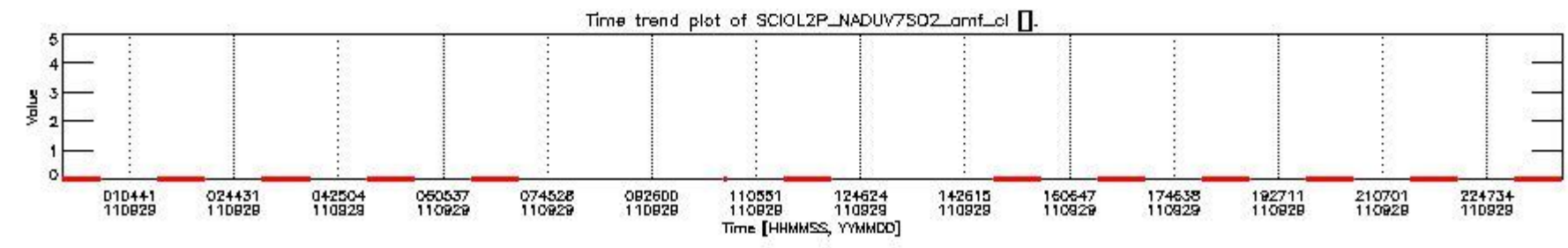
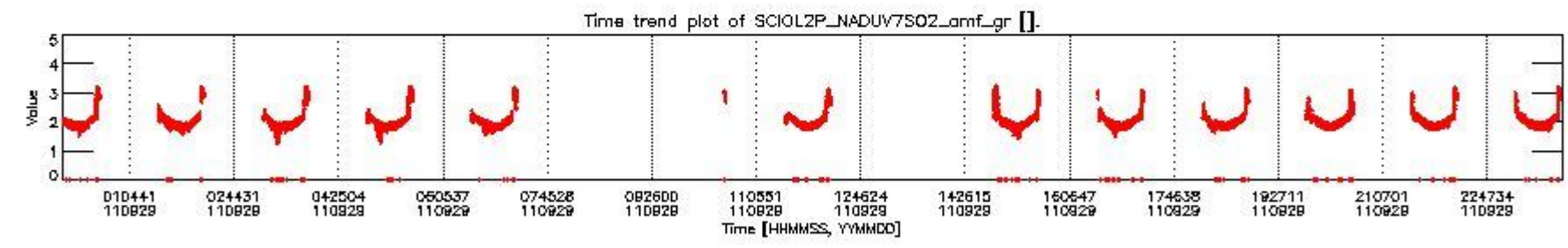
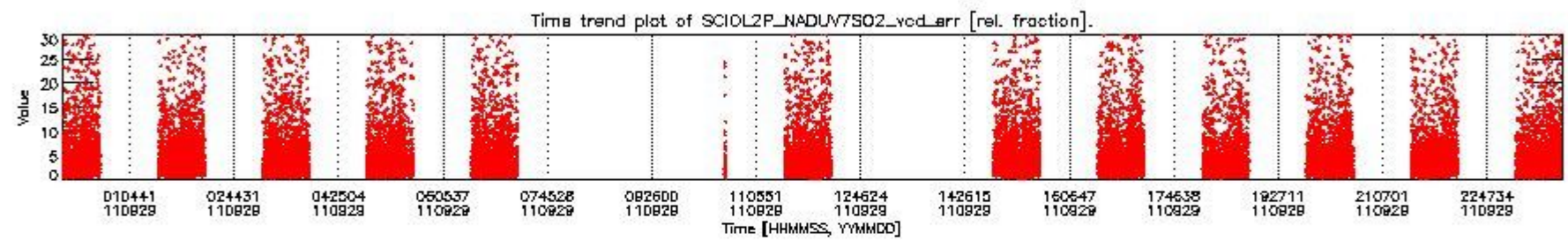
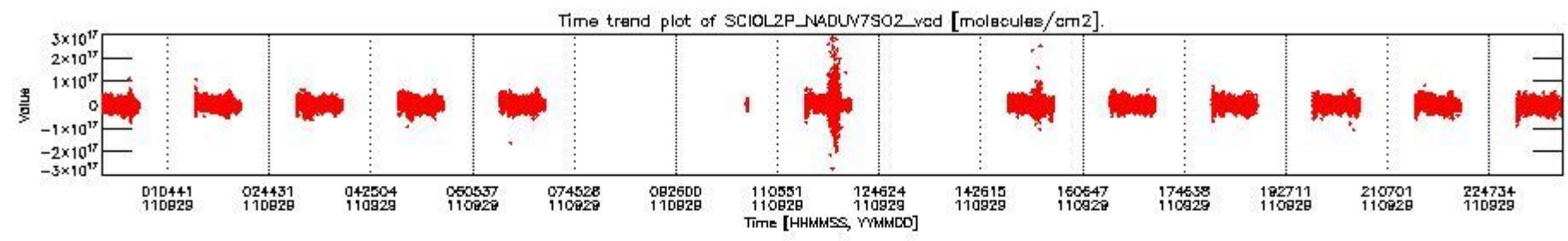
SCIOL2P_NADUV5S02_amf_gr for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



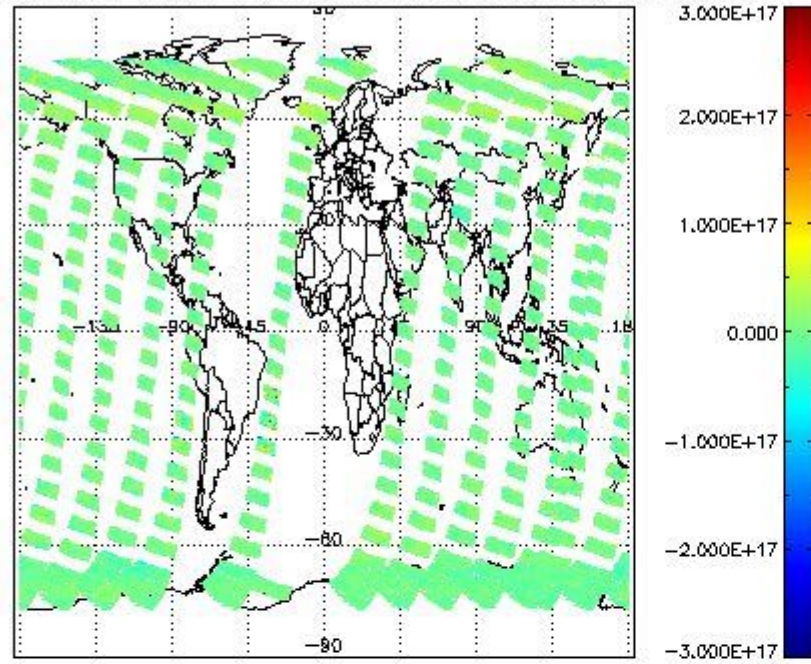
SCIOL2P_NADUV5S02_amf_cl for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



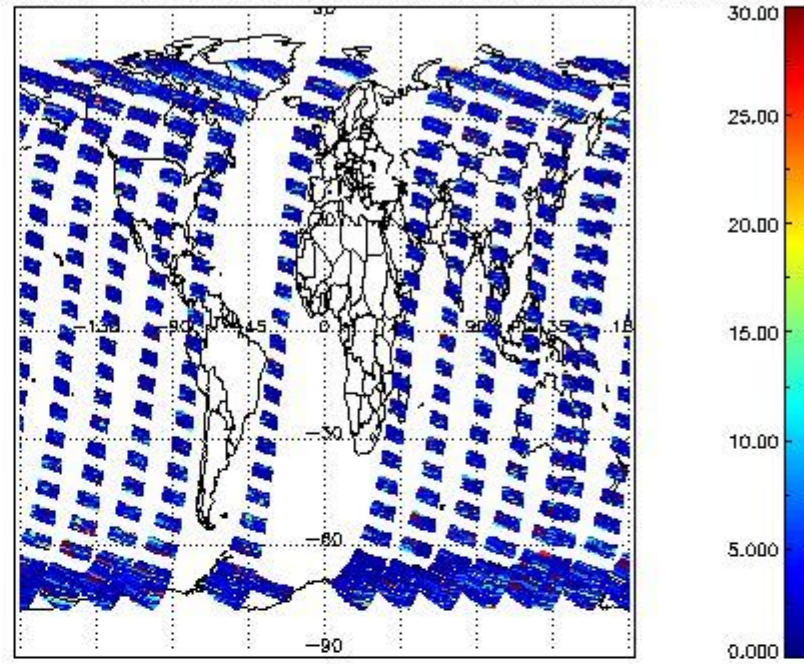
2.2.2.5 SO2 (UV7)



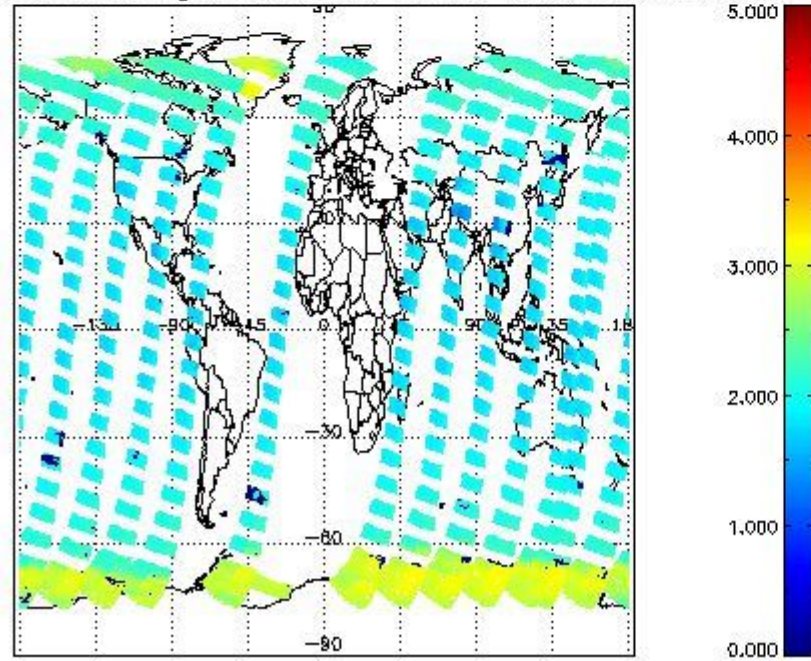
SCIOL2P_NADUV7S02_vcd for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



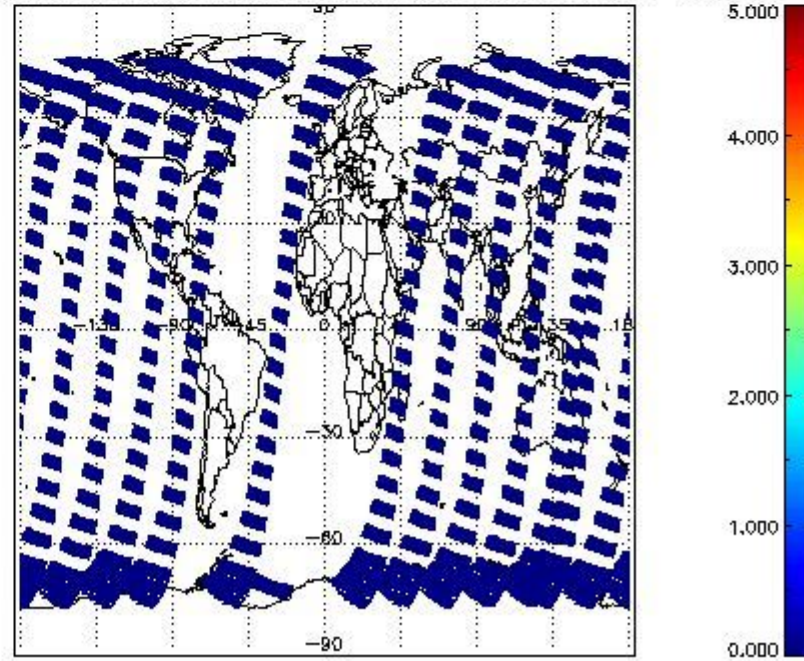
SCIOL2P_NADUV7S02_vcd_err for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



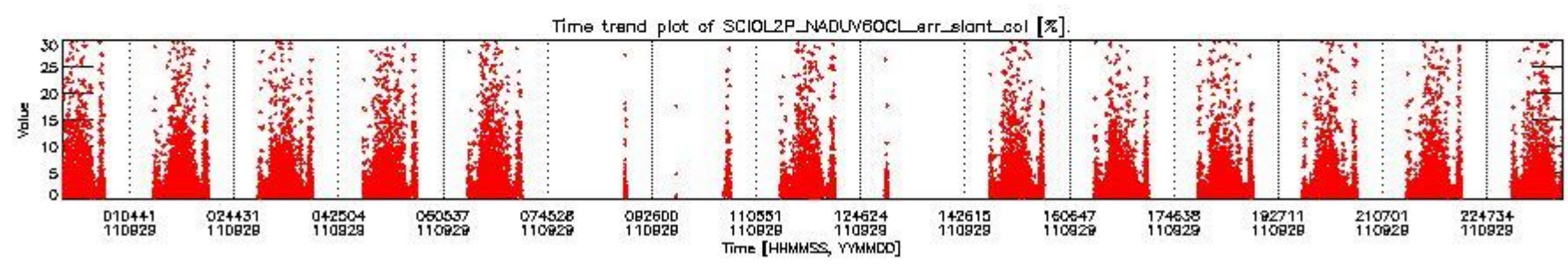
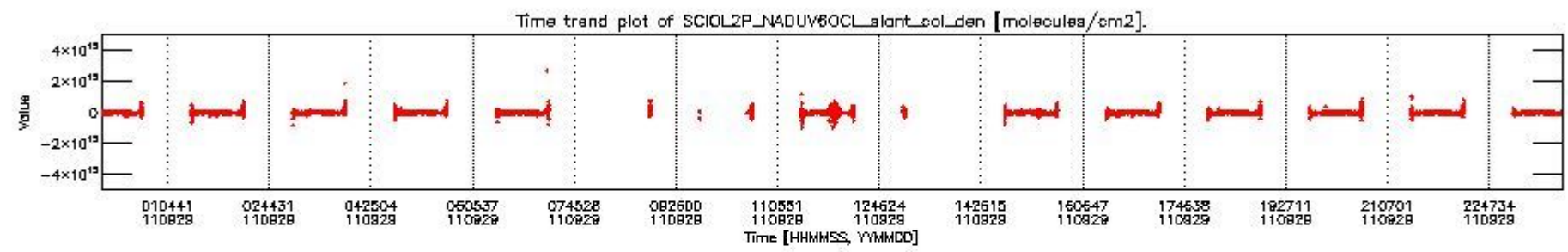
SCIOL2P_NADUV7S02_amf_gr for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



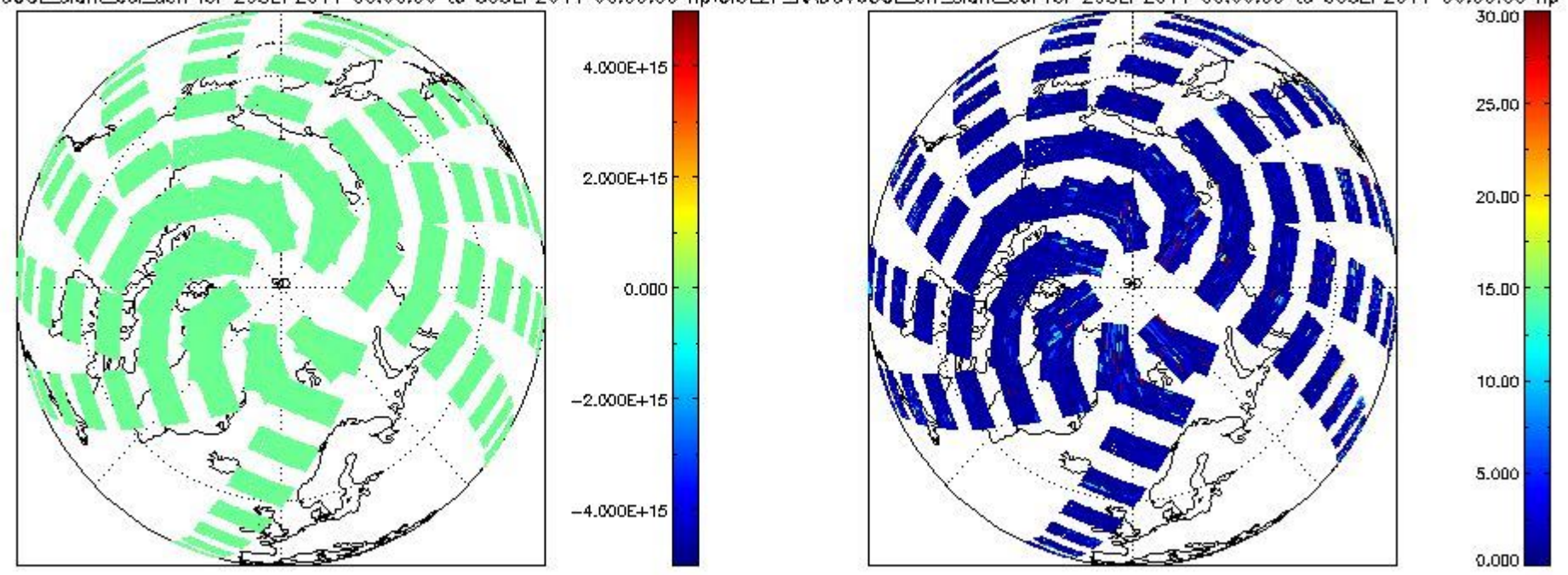
SCIOL2P_NADUV7S02_amf_cl for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



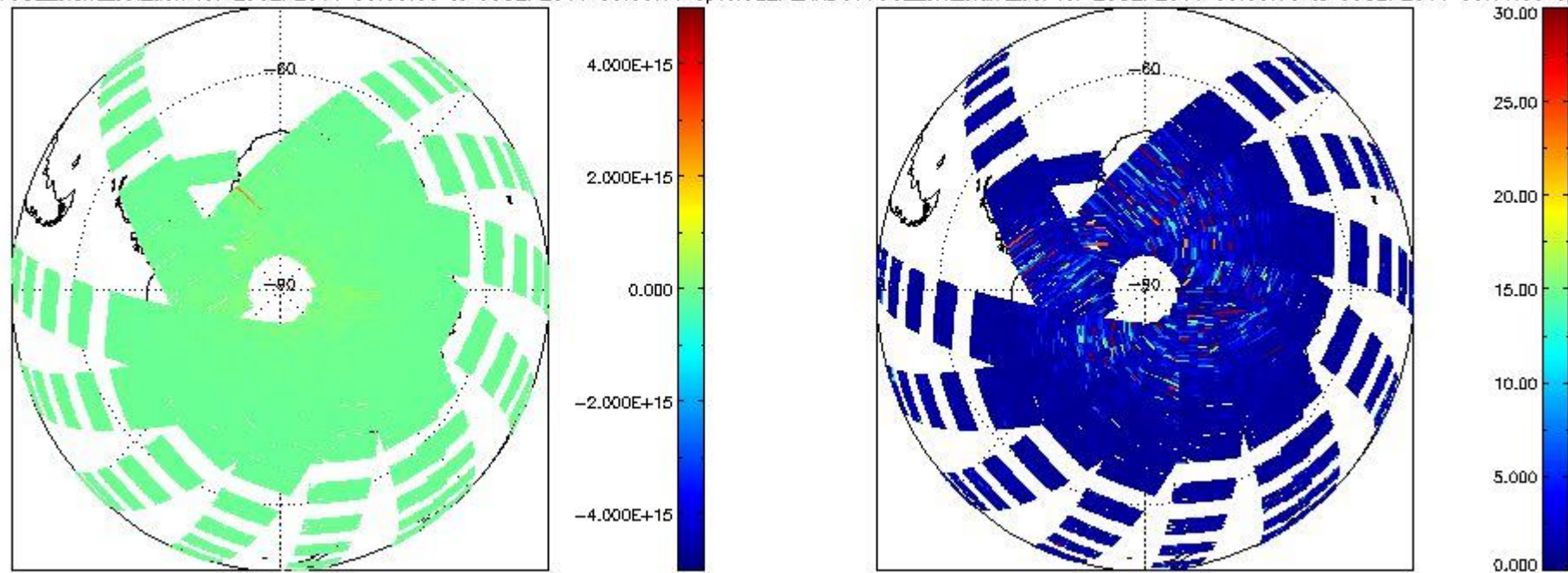
2.2.2.6 OCIO (UV6)



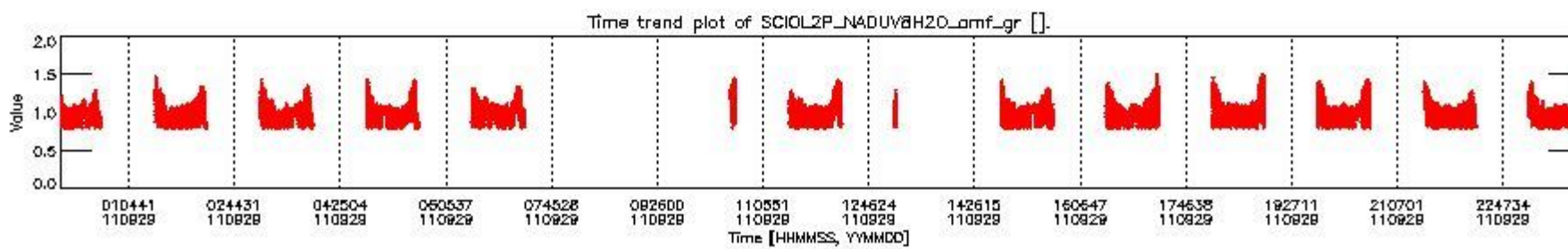
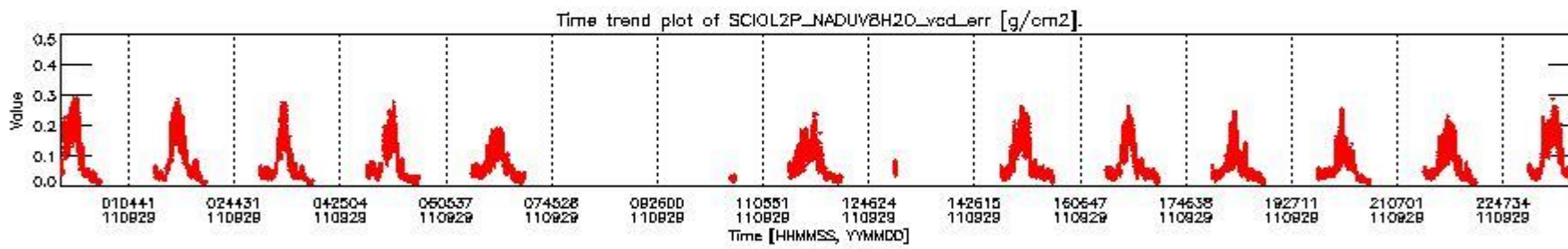
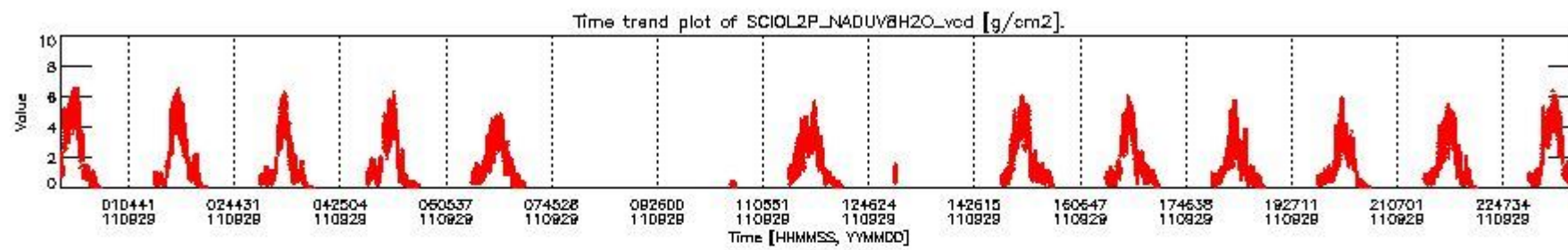
CIOL2P_NADUV60CLslant_col_den for 29SEP2011 00:00:00 to 30SEP2011 00:00:00 np; CIOL2P_NADUV60CLerr_slant_col for 29SEP2011 00:00:00 to 30SEP2011 00:00:00 np



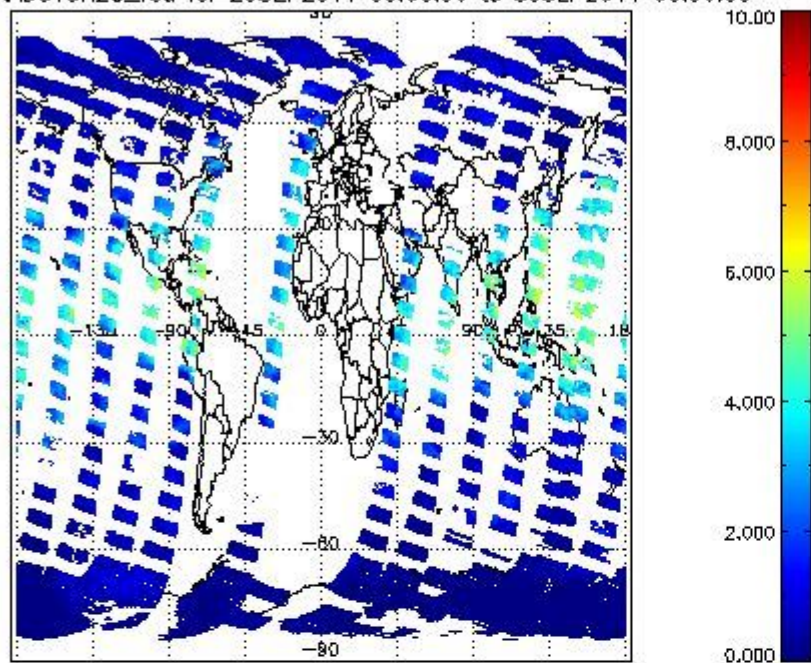
CIOL2P_NADUV60CL_slant_col_den for 29SEP2011 00:00:00 to 30SEP2011 00:00:00 sp | CIOL2P_NADUV60CL_err_slant_col for 29SEP2011 00:00:00 to 30SEP2011 00:00:00 sp



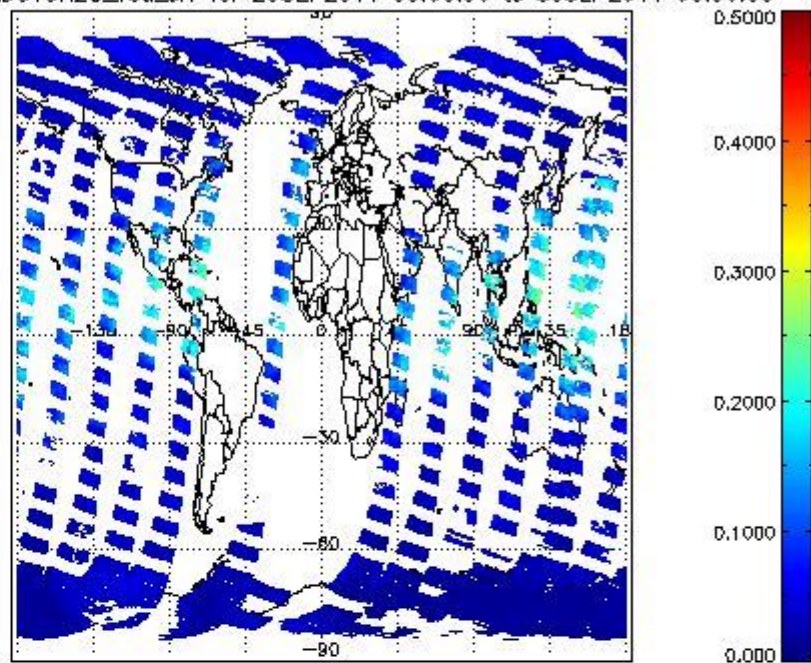
2.2.2.7 H2O (UV8)



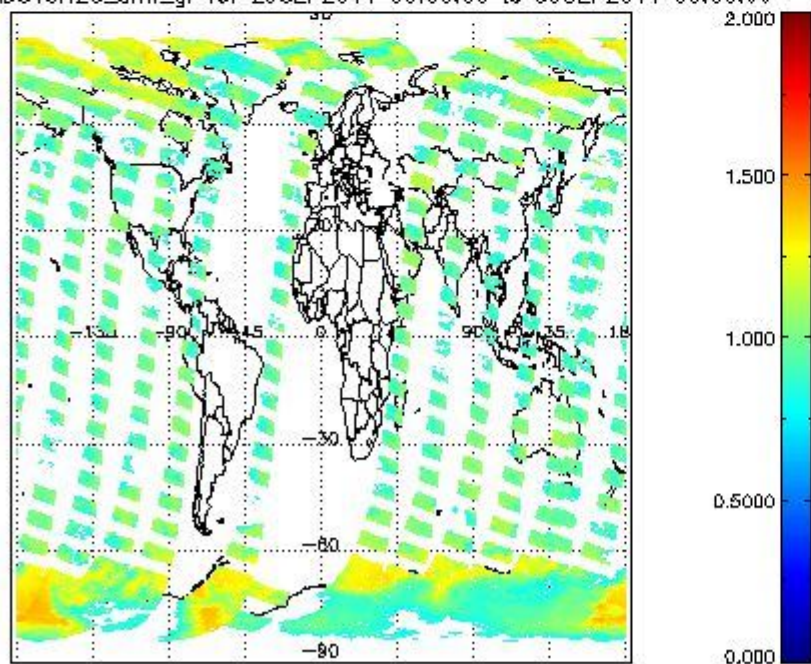
SCIOL2P_NADUV8H2O_vcd for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

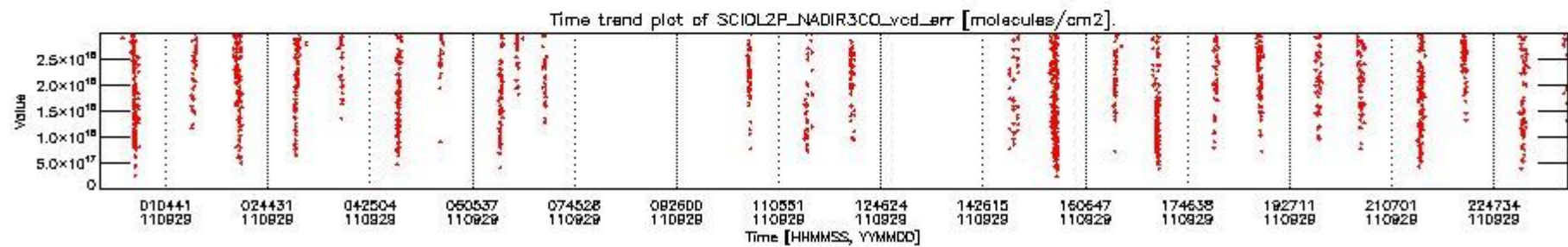
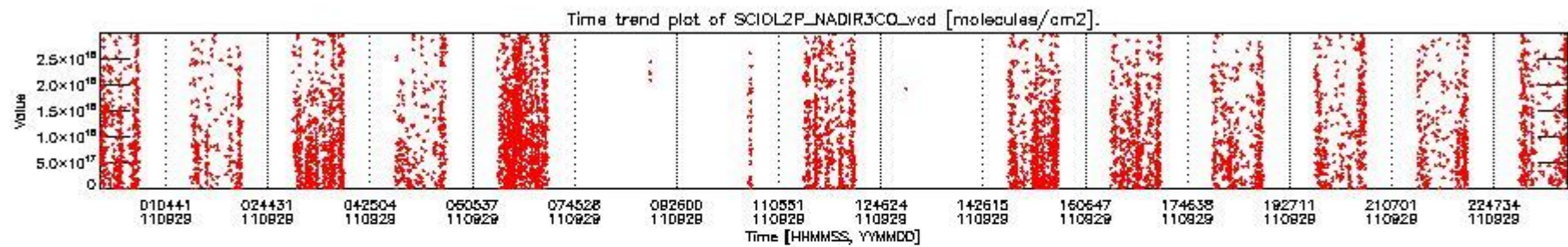


SCIOL2P_NADUV8H2O_vcd_err for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

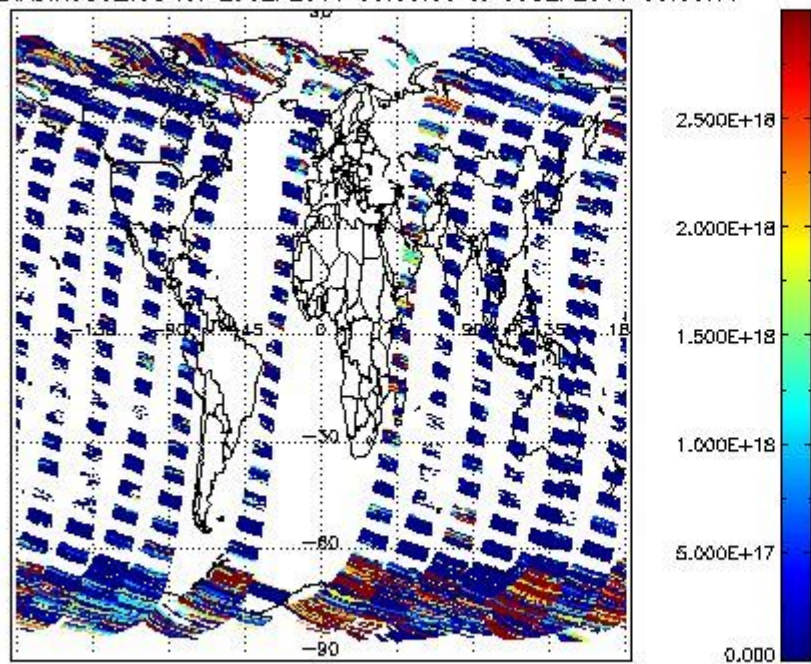


SCIOL2P_NADUV8H2O_arnf_gr for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

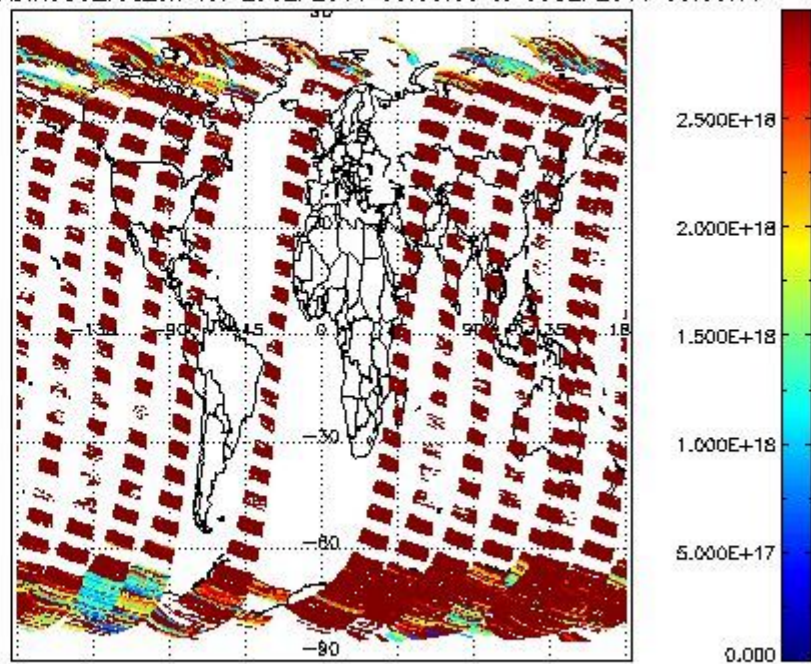




SCIDL2P_NADIR3CO_vcd for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



SCIDL2P_NADIR3CO_vcd_err for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



2.2.3 Limb

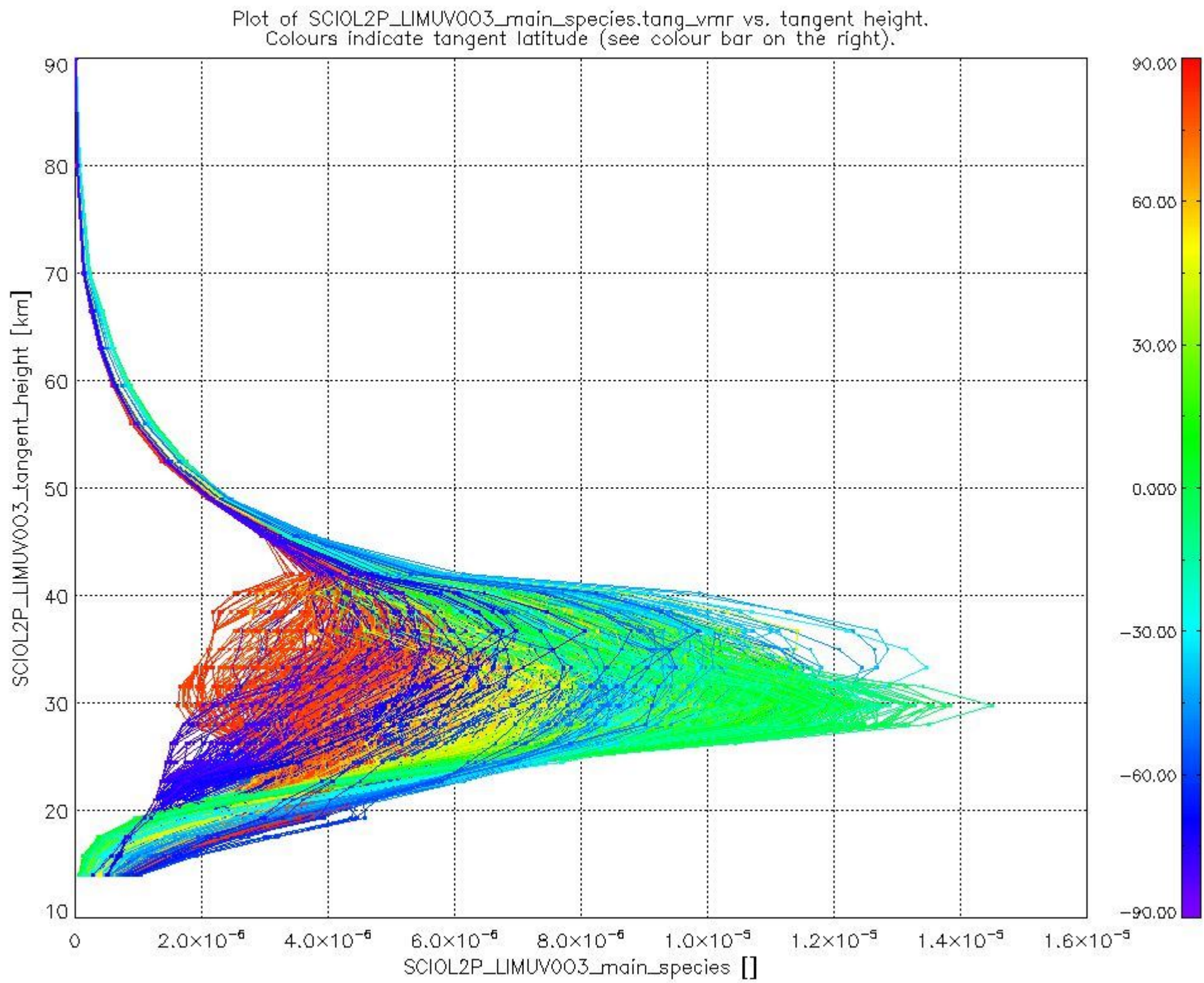
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

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

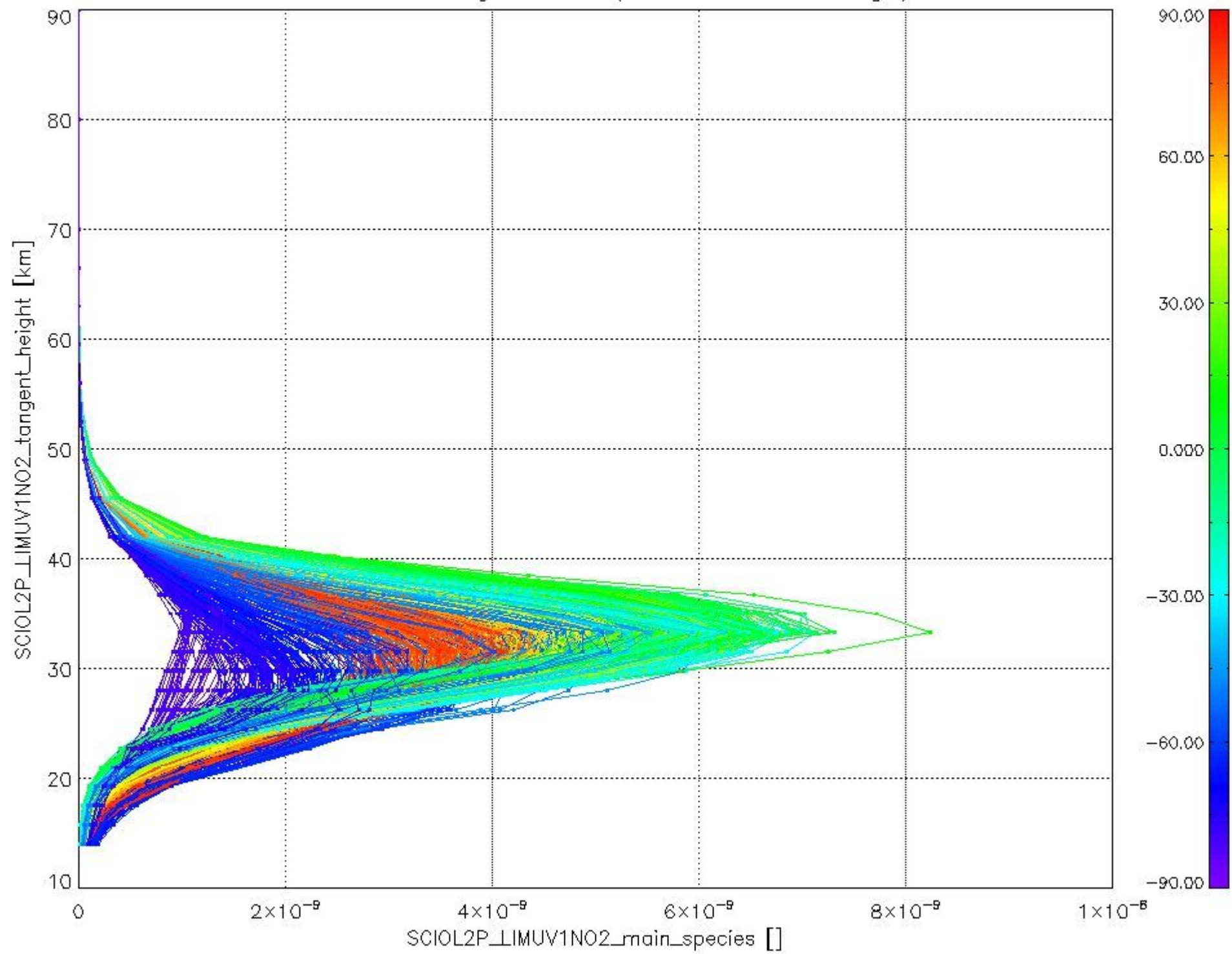
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



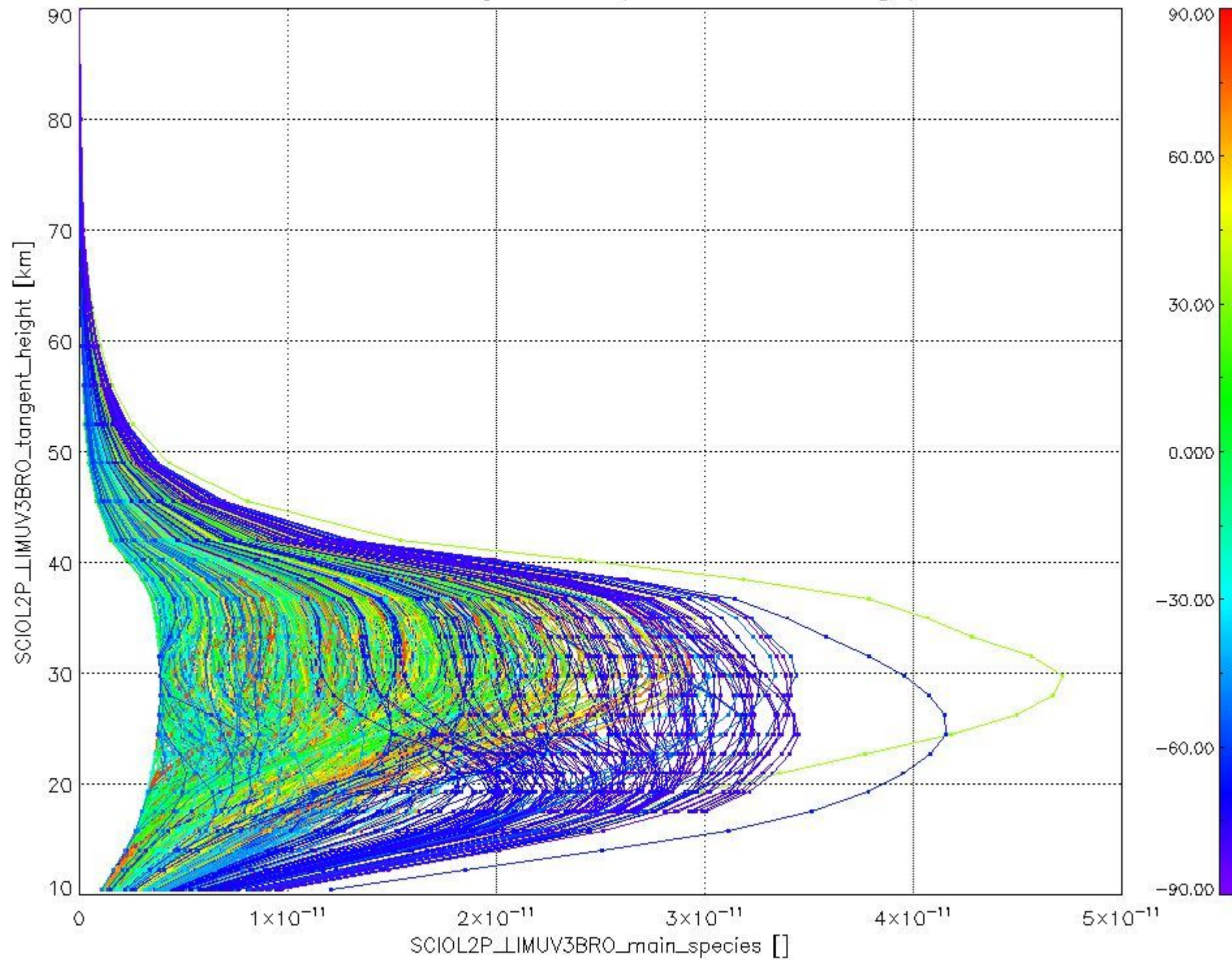
2.2.3.2 NO2 (UV1)

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)

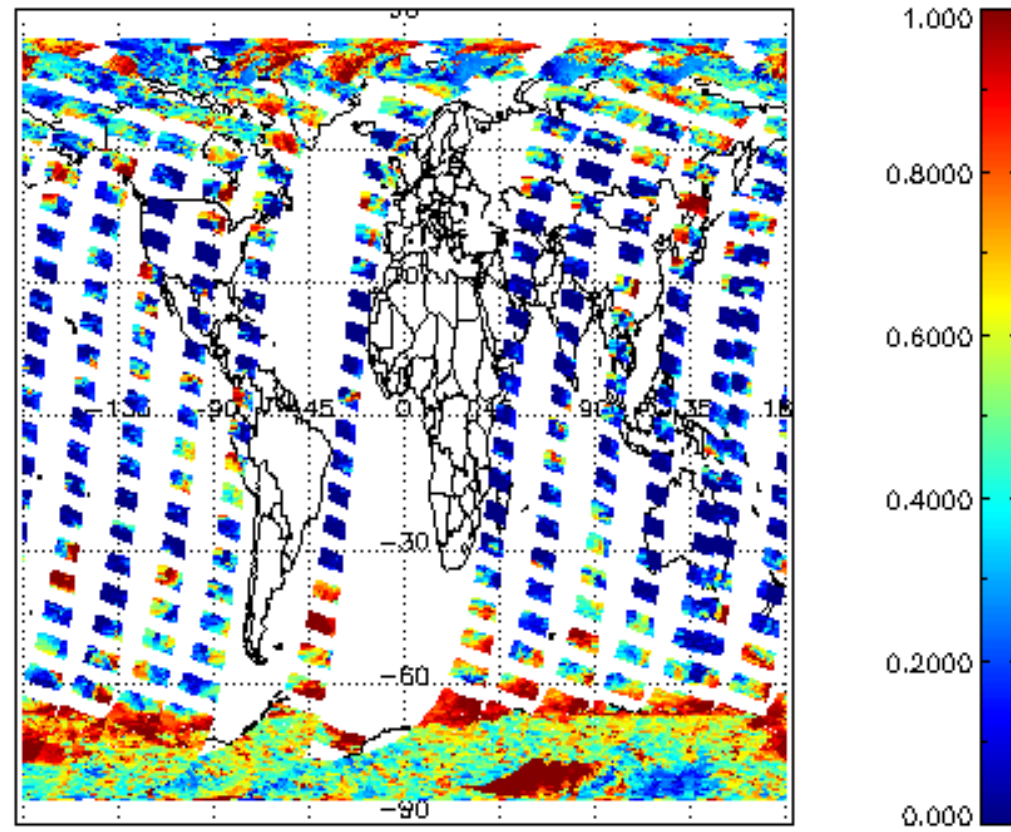
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



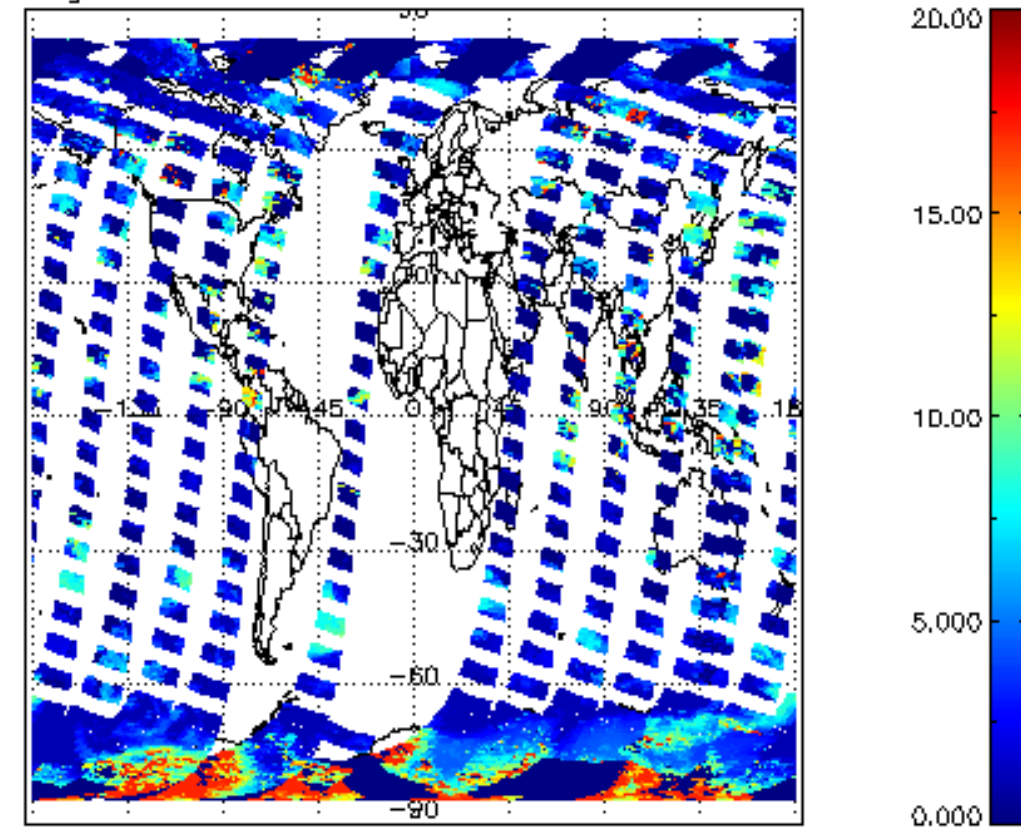
2.3 ADF monitoring

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_AXVIEC2011004_131454_20110928_180711_20110930_180711
3	SCI_MF1_AXVIEC2011004_131502_20110929_191039_2011001_191039

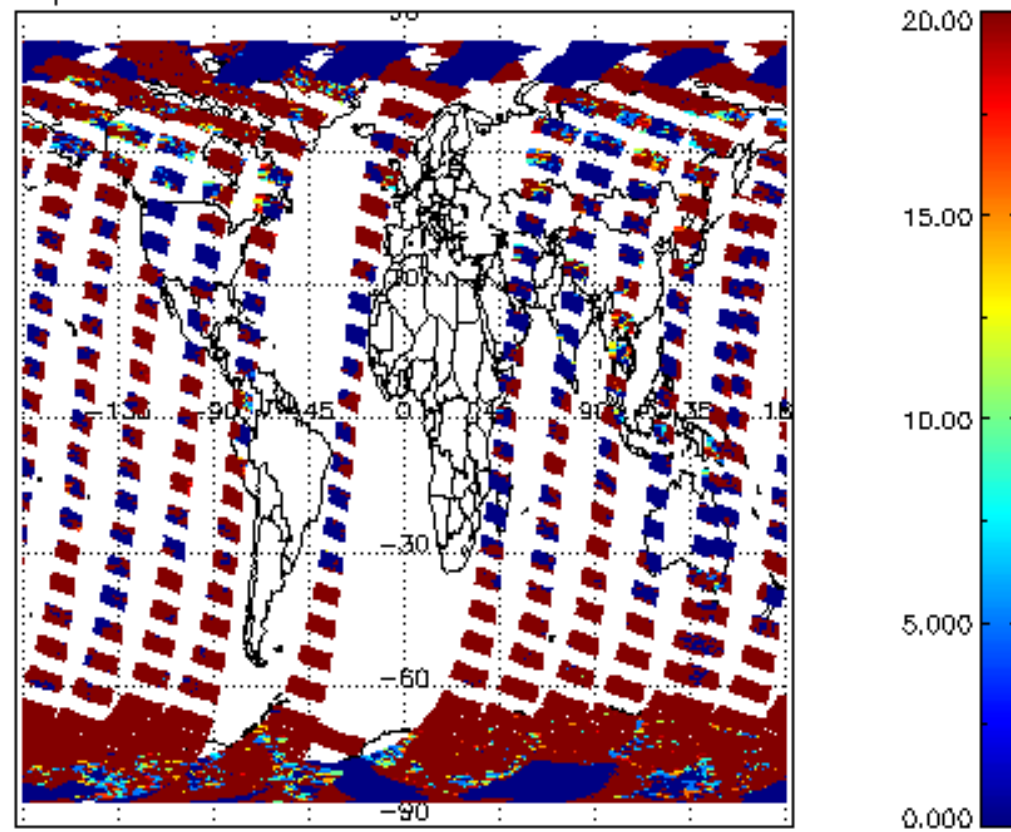
cl_frac for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



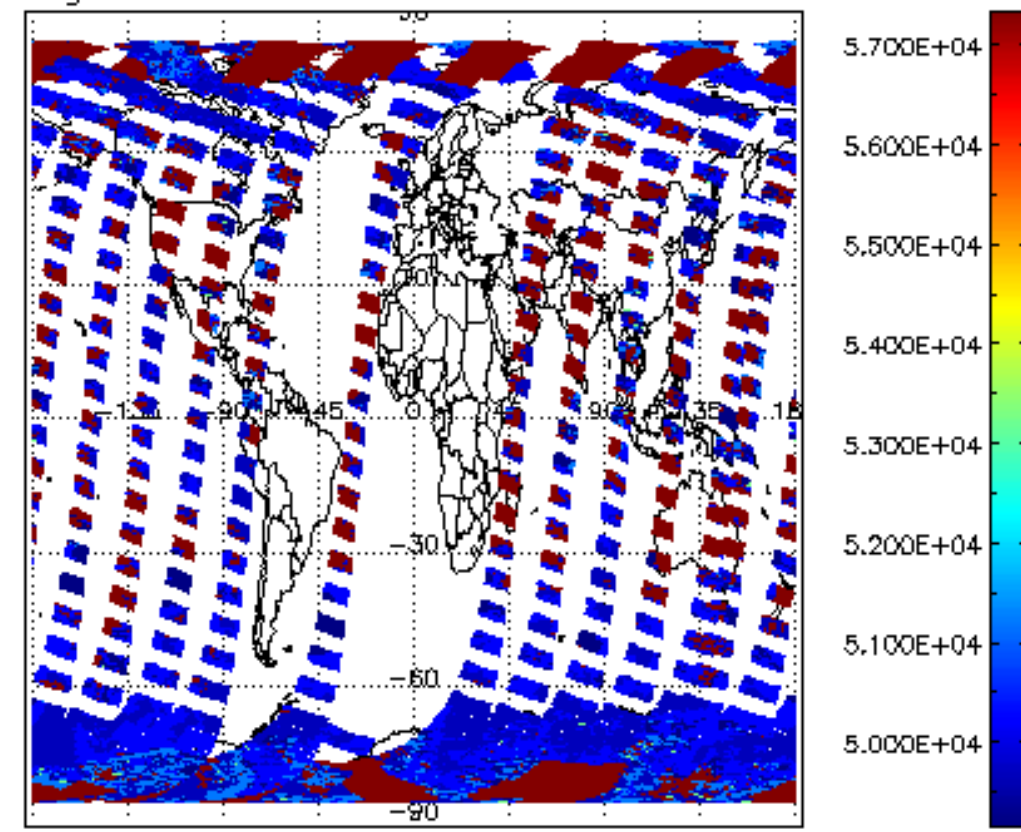
cl_top_height for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

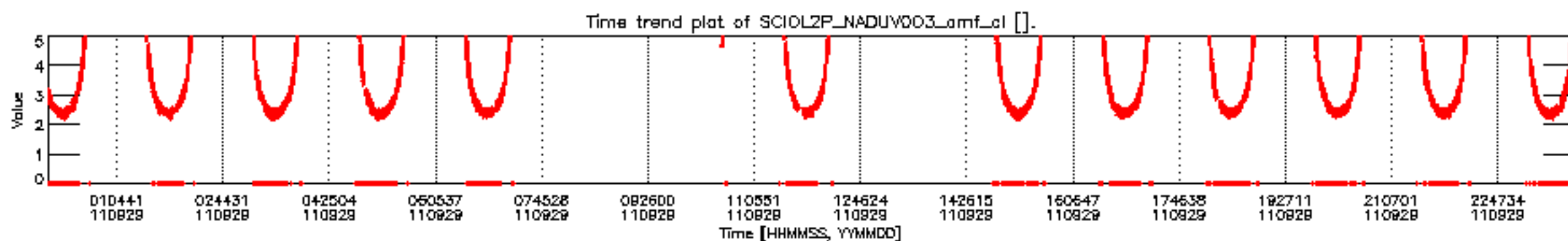
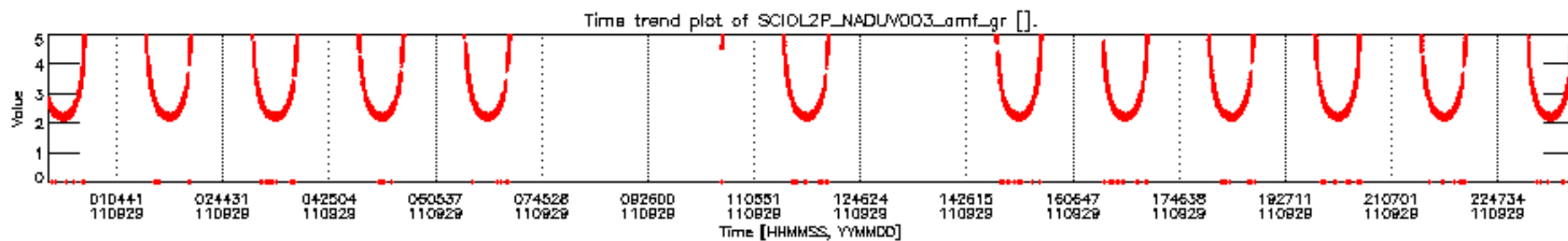
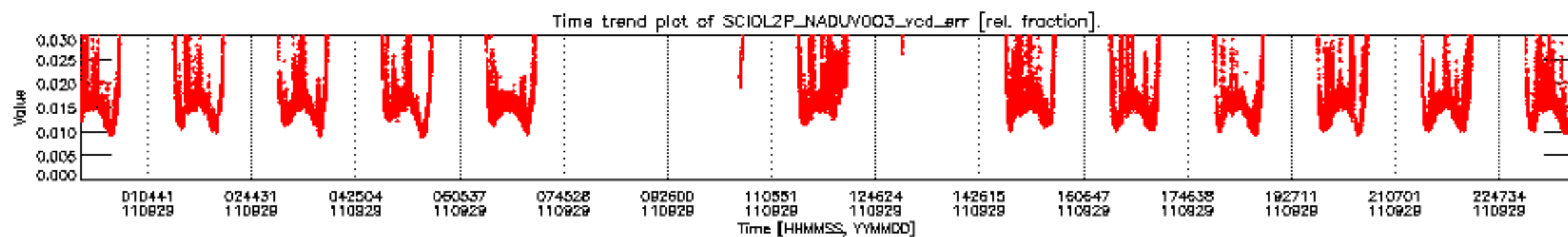
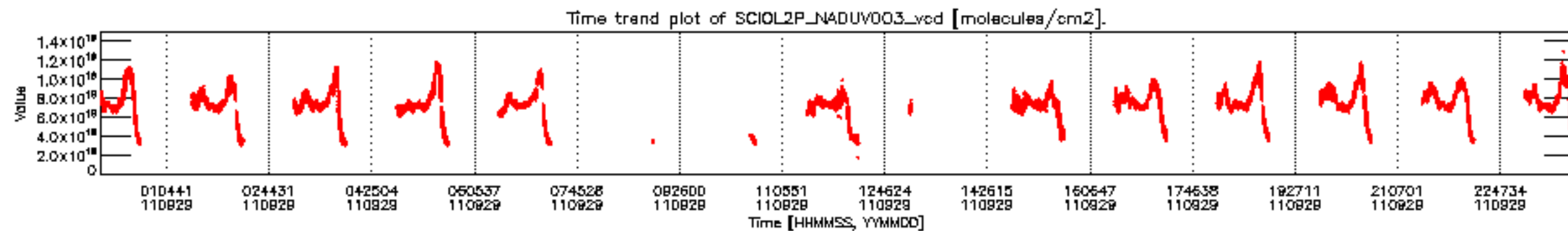


cl_opt_depth for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

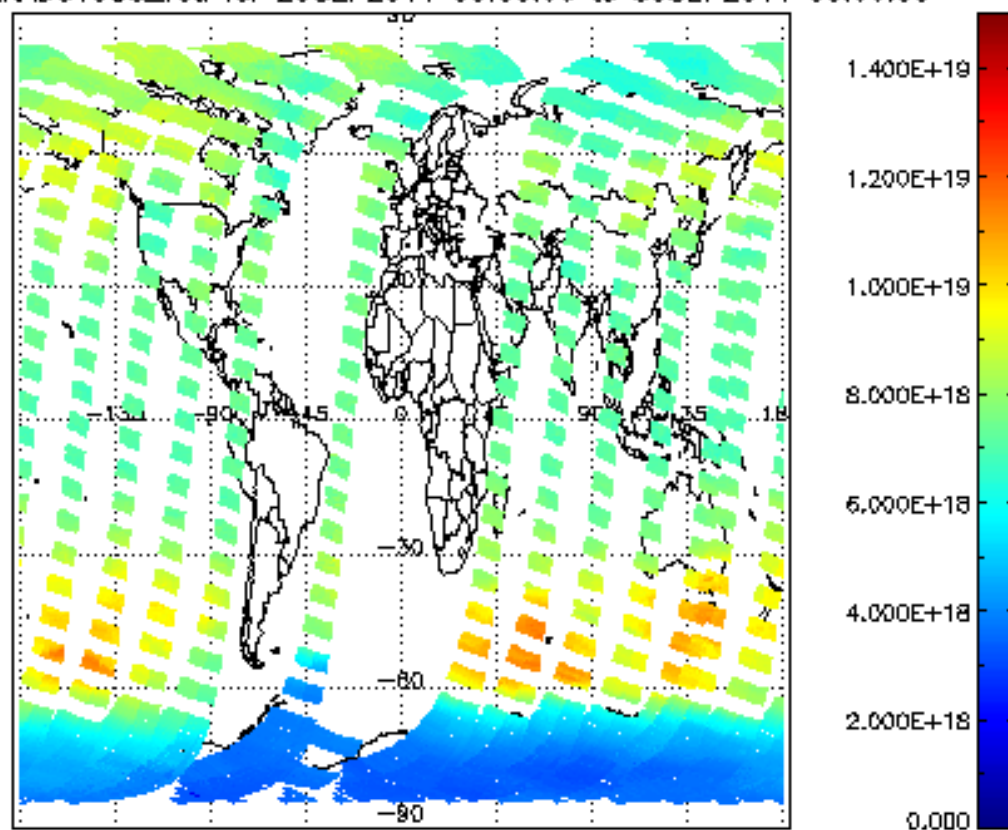


cloud_flags for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

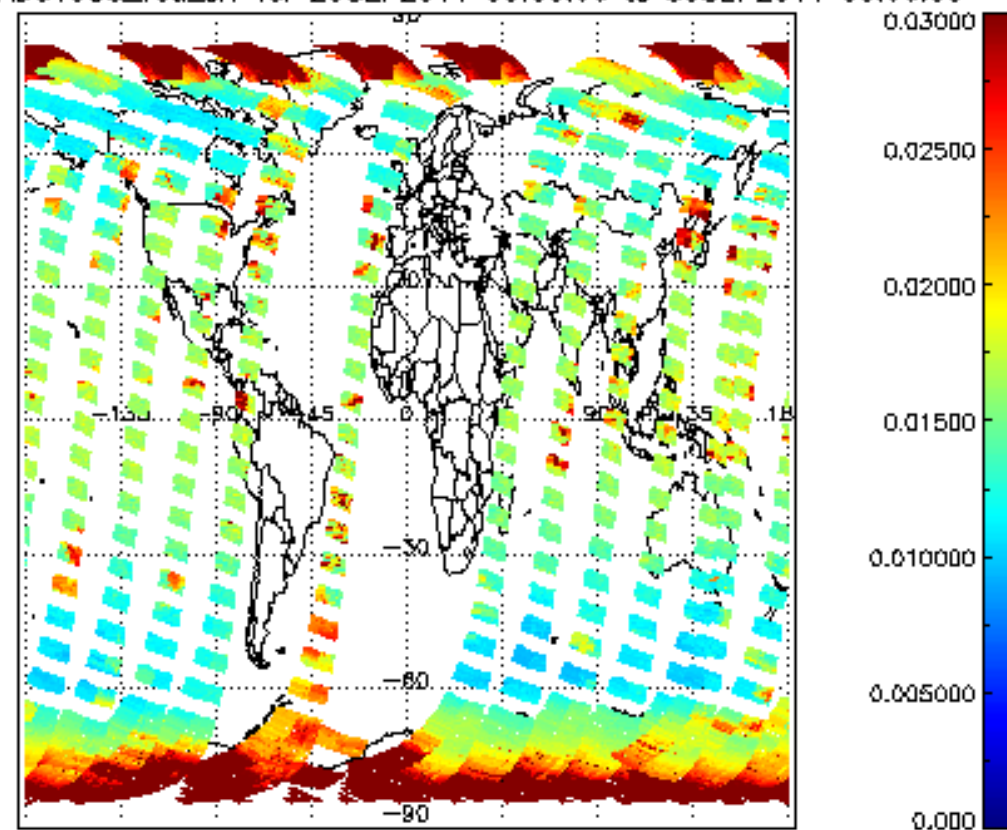




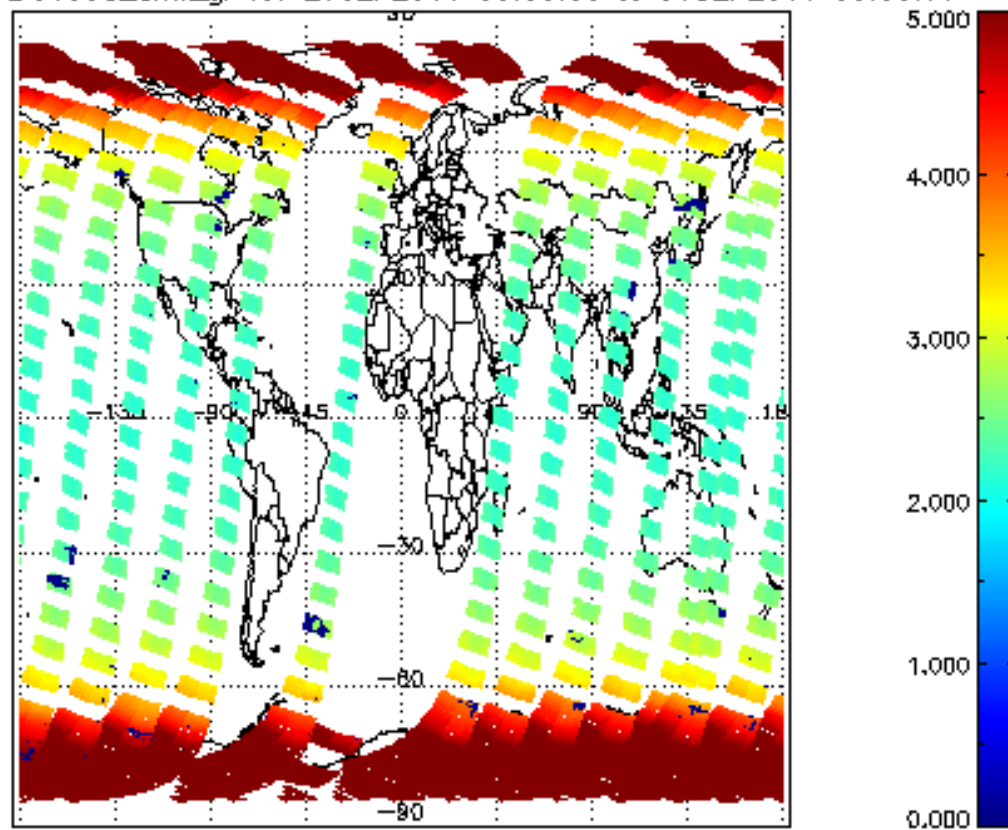
SCIOL2P_NADUV003_vcd for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



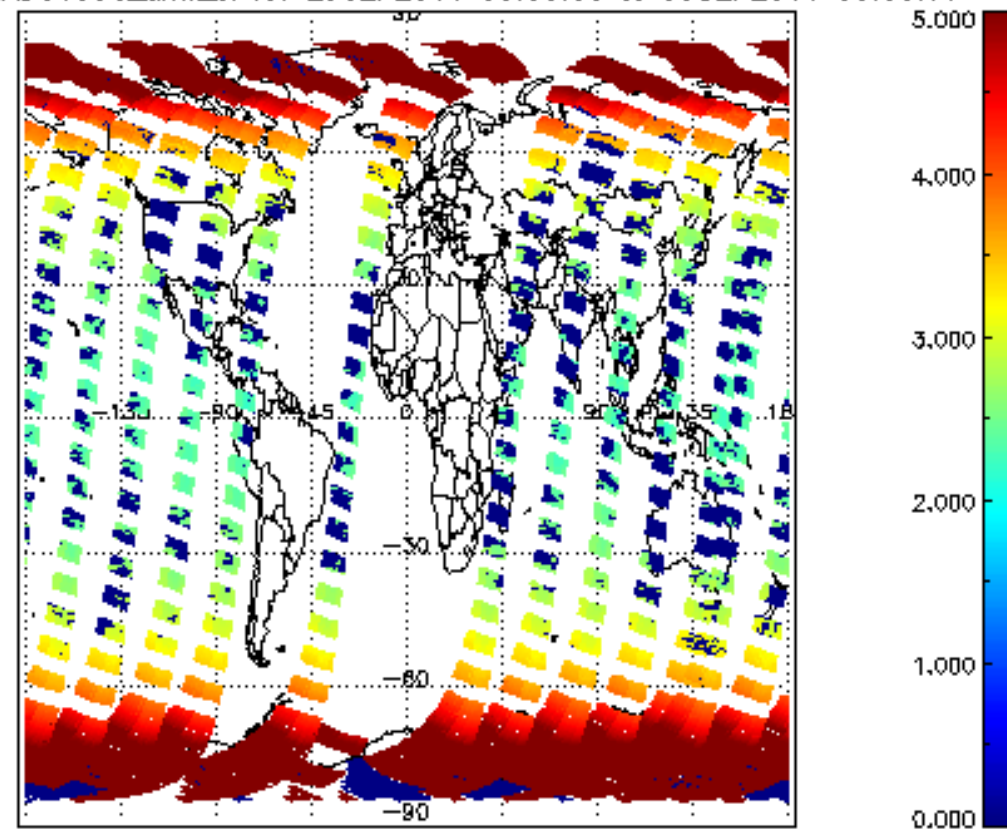
SCIOL2P_NADUV003_vcd_err for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

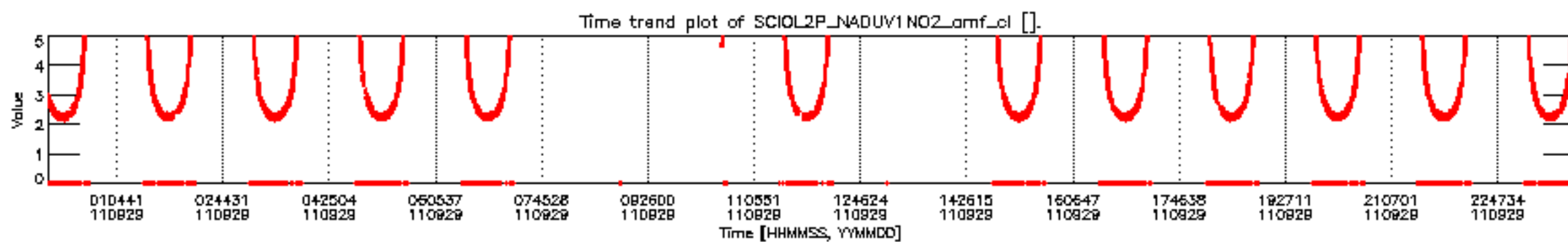
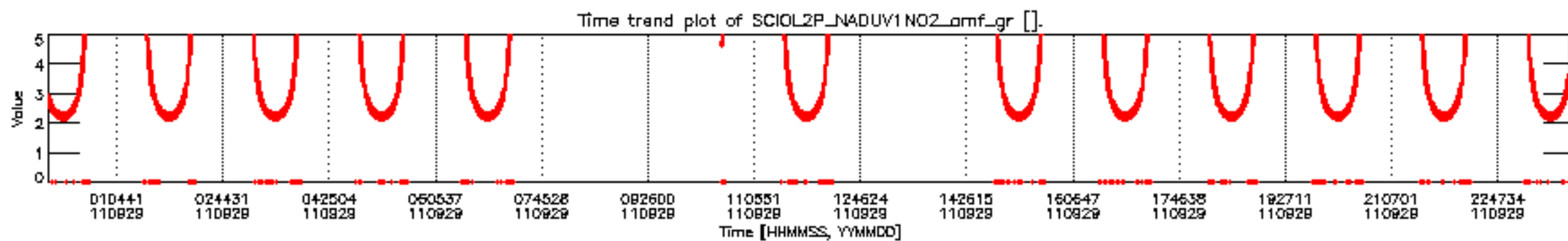
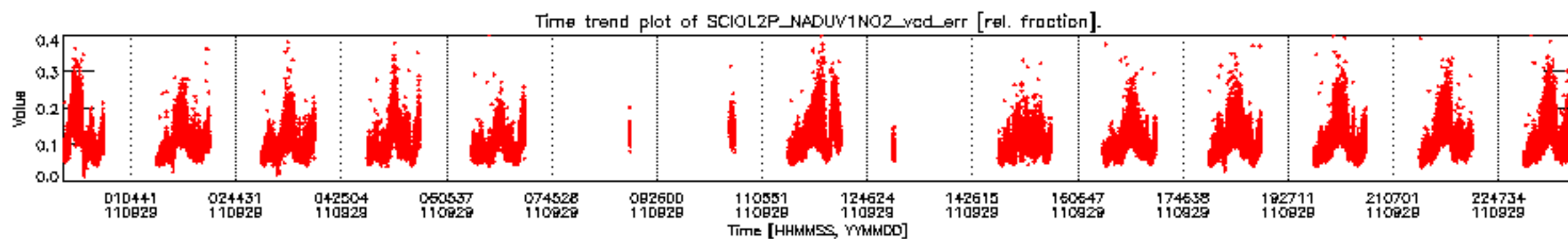
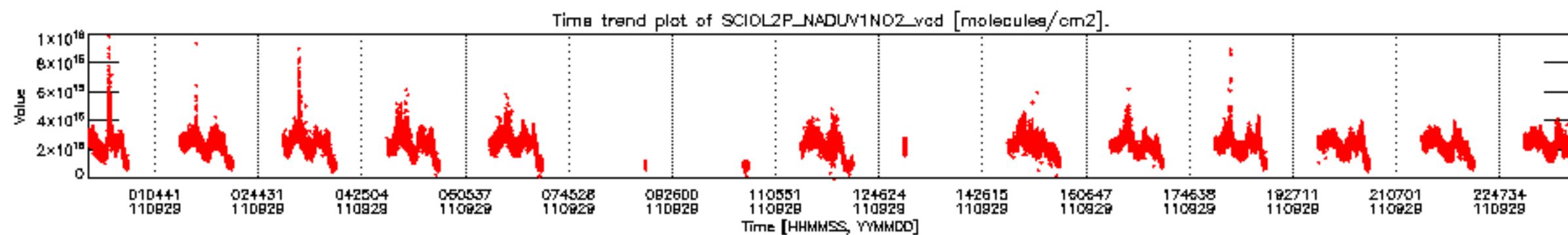


SCIOL2P_NADUV003_amf_gr for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

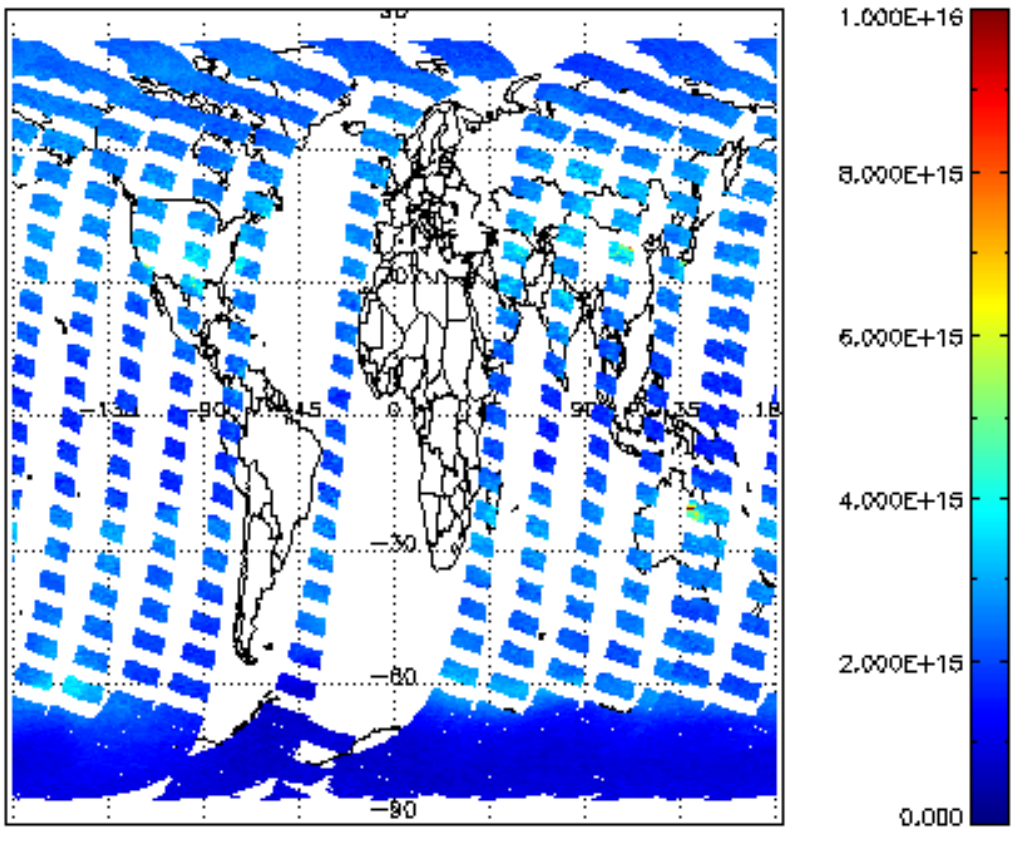


SCIOL2P_NADUV003_amf_cl for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

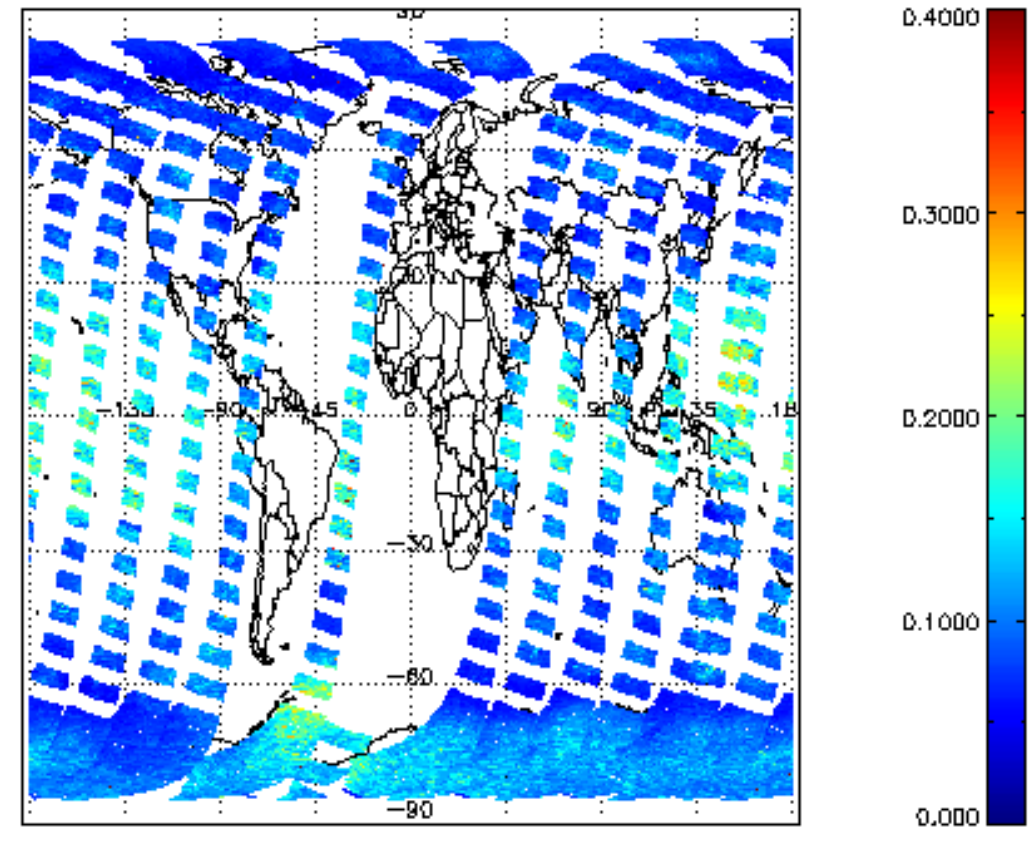




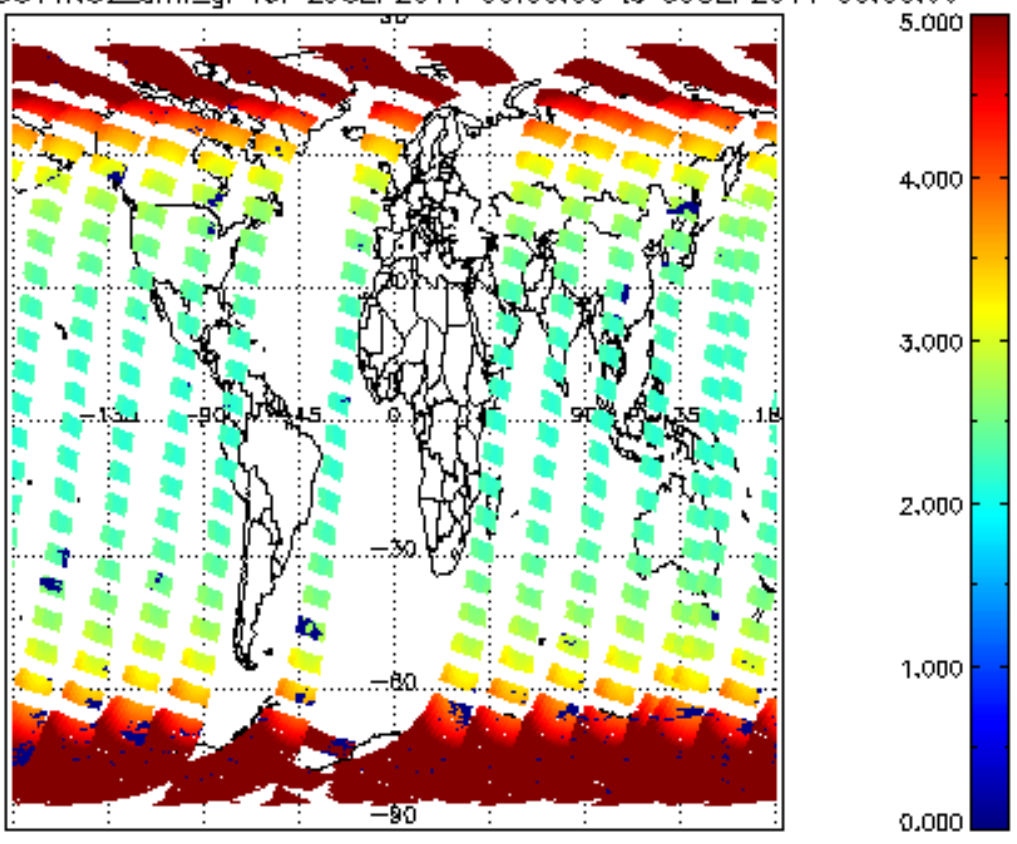
SCIOL2P_NADUV1NO2_vcd for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



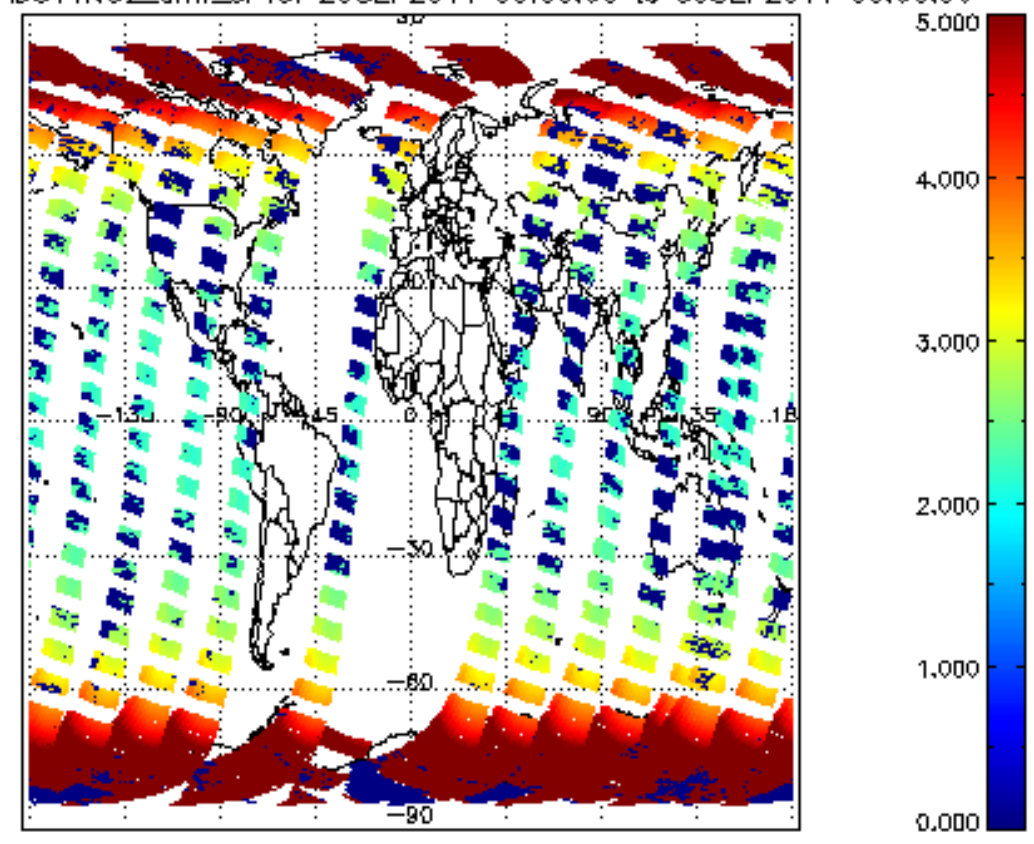
SCIOL2P_NADUV1NO2_vcd_err for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

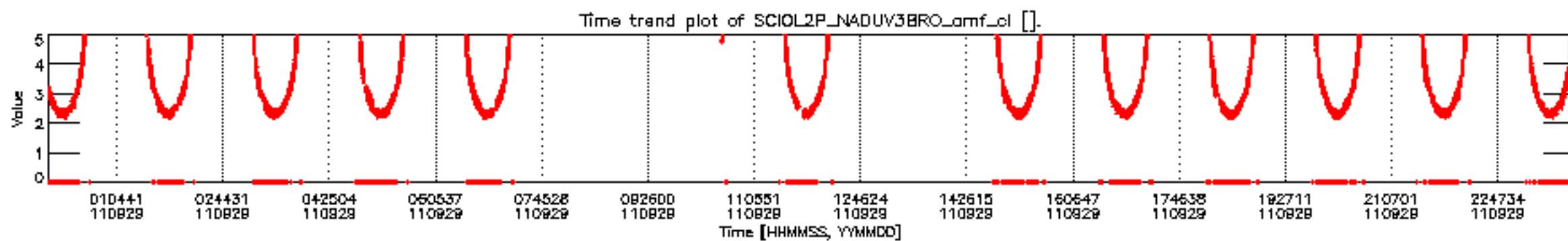
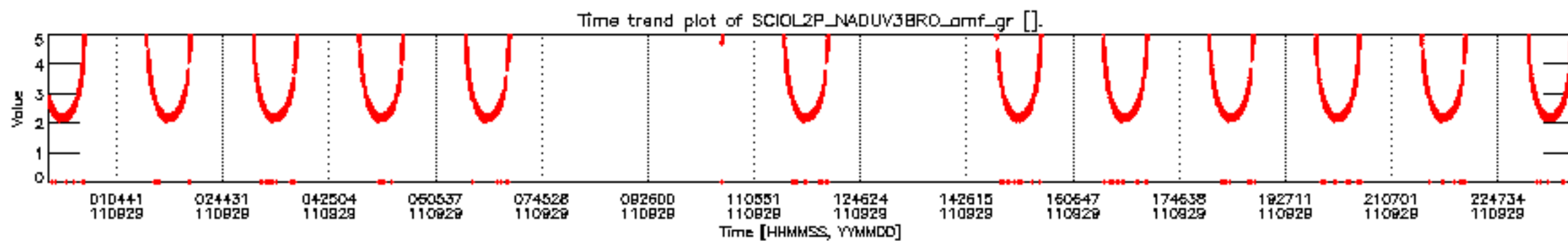
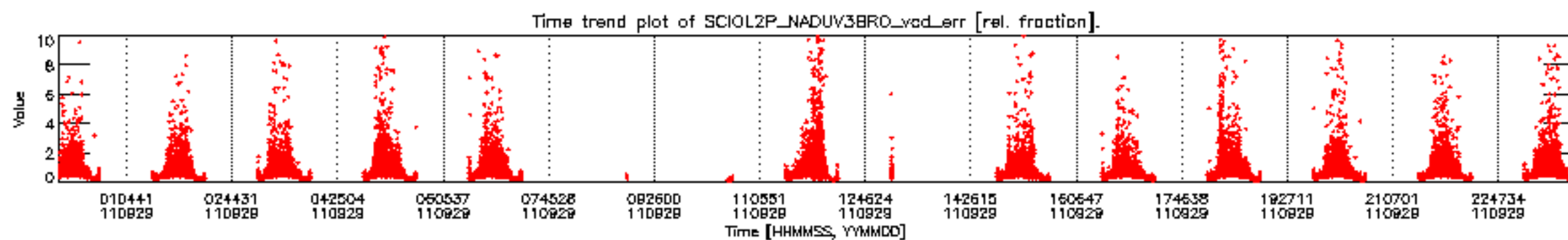
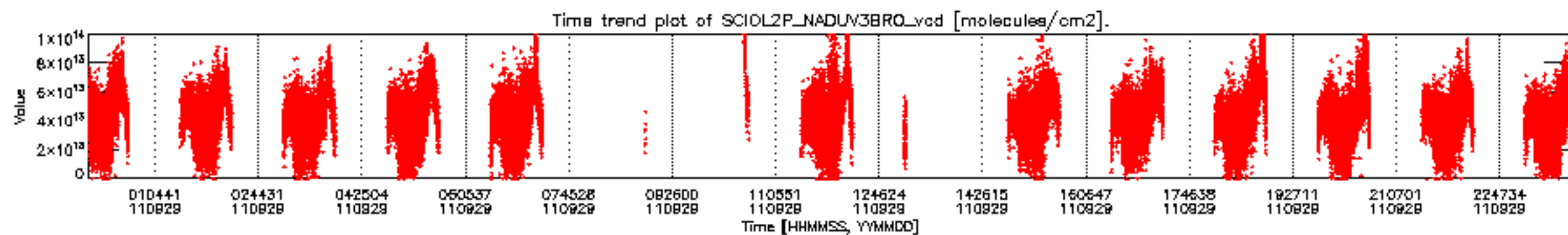


SCIOL2P_NADUV1NO2_amf_gr for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

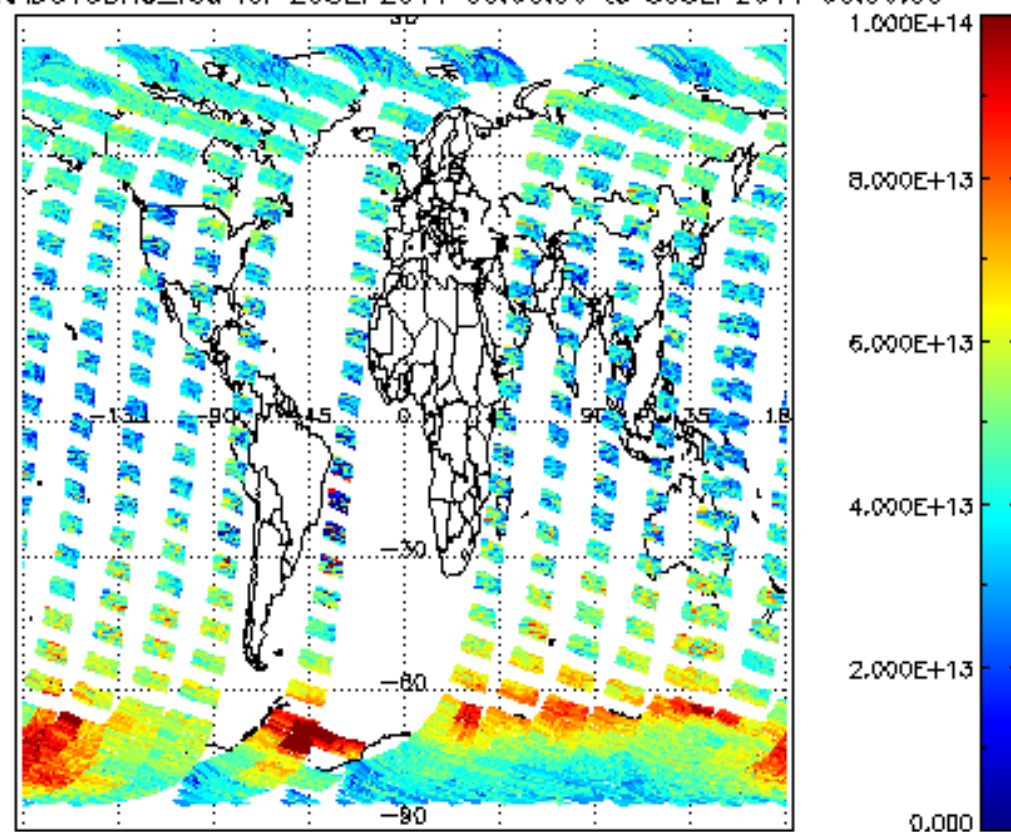


SCIOL2P_NADUV1NO2_amf_sl for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

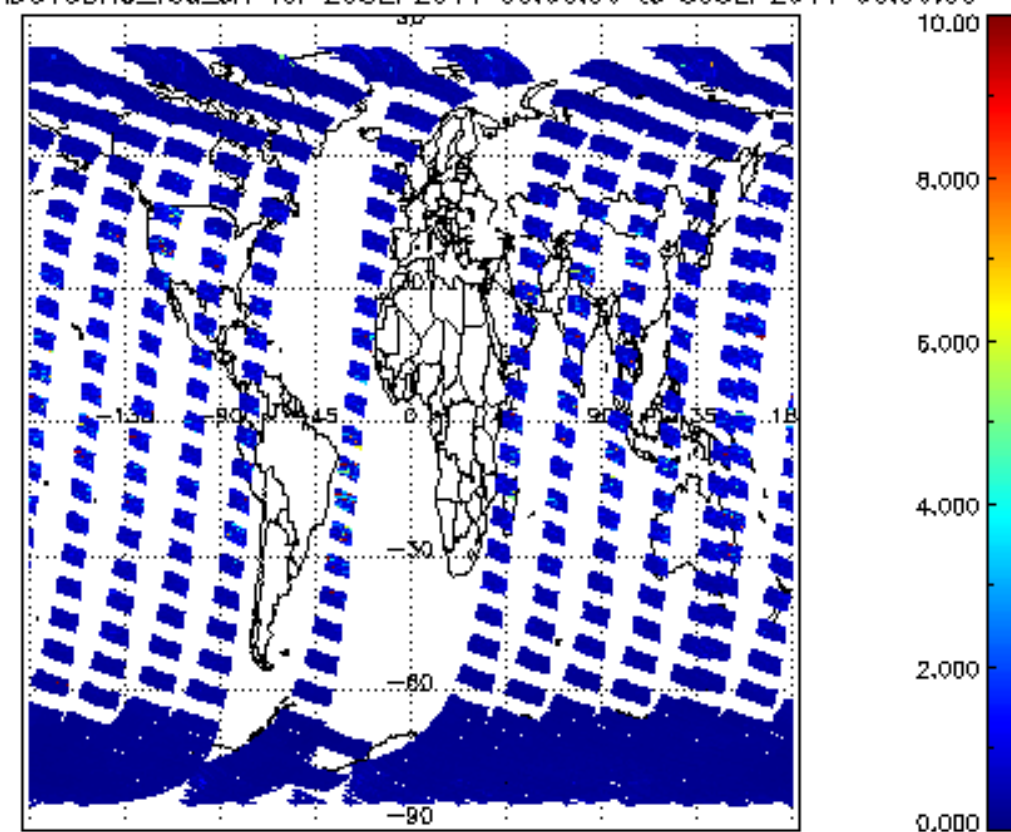




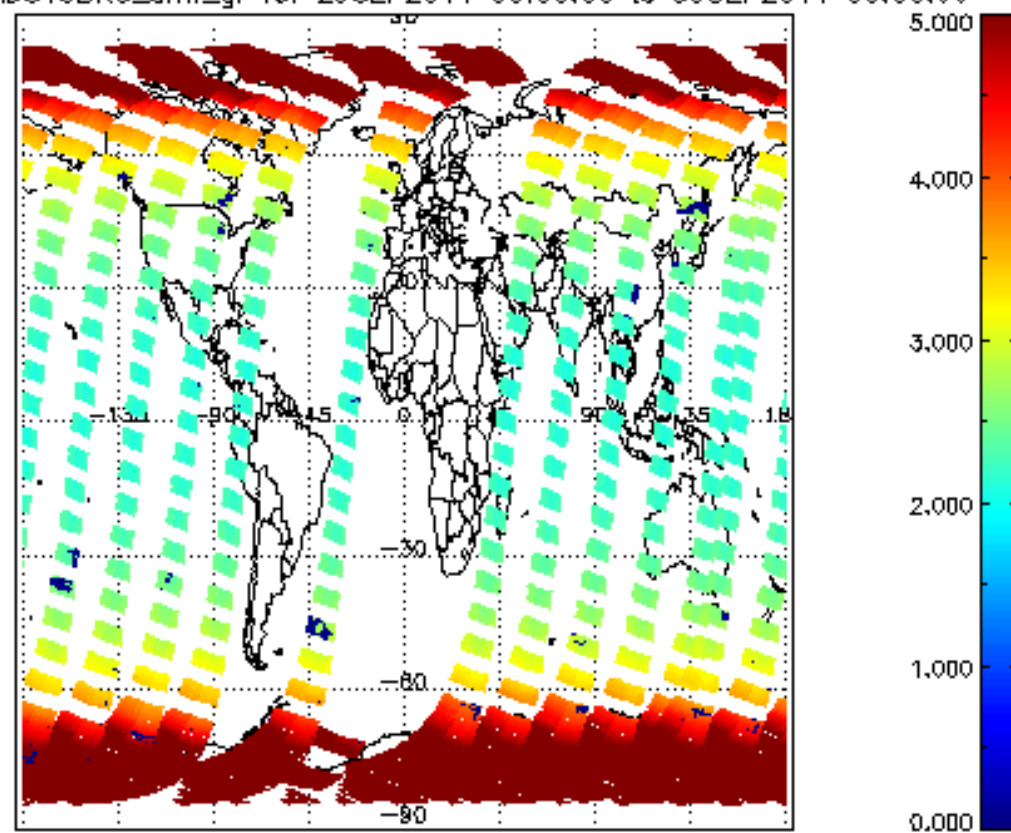
SCIOL2P_NADUV3BRO_vcd for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



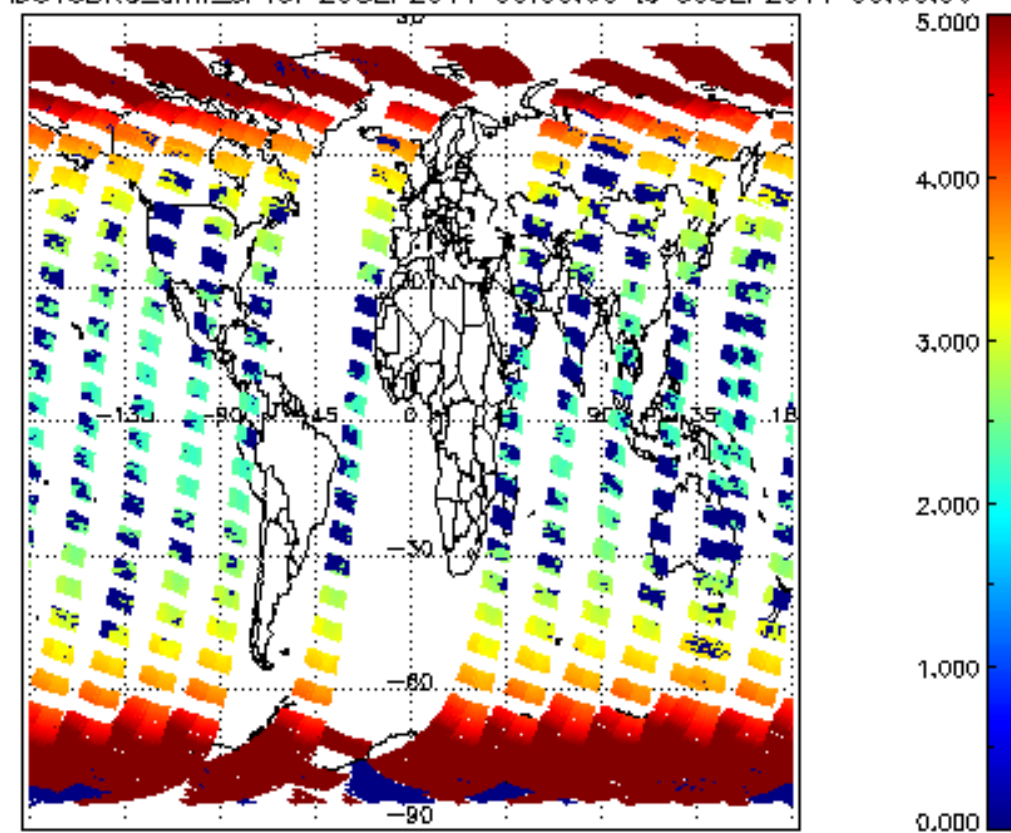
SCIOL2P_NADUV3BRO_vcd_err for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

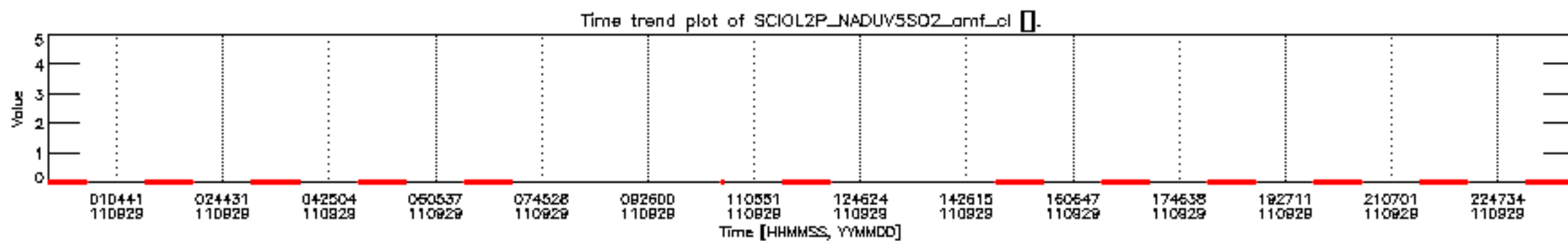
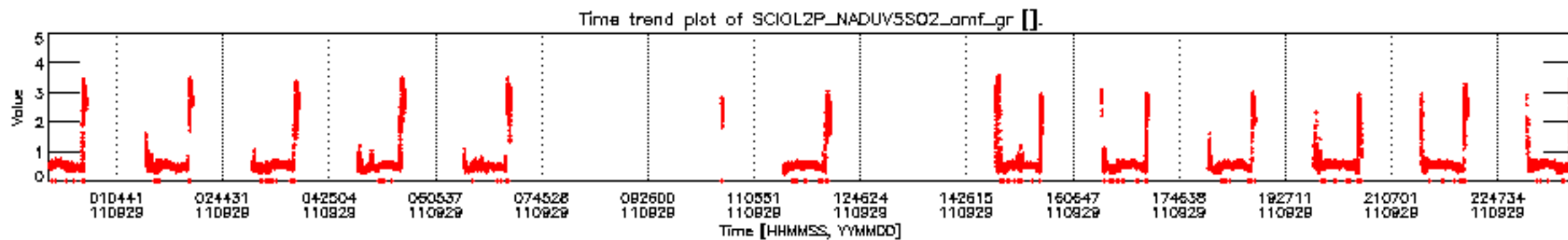
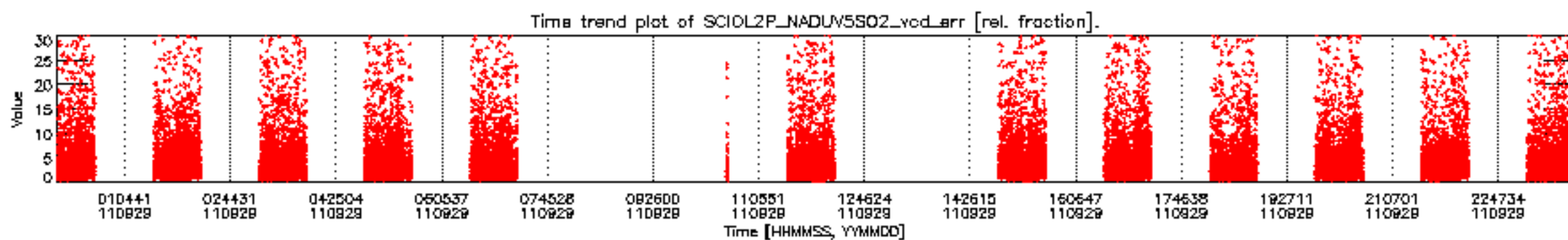
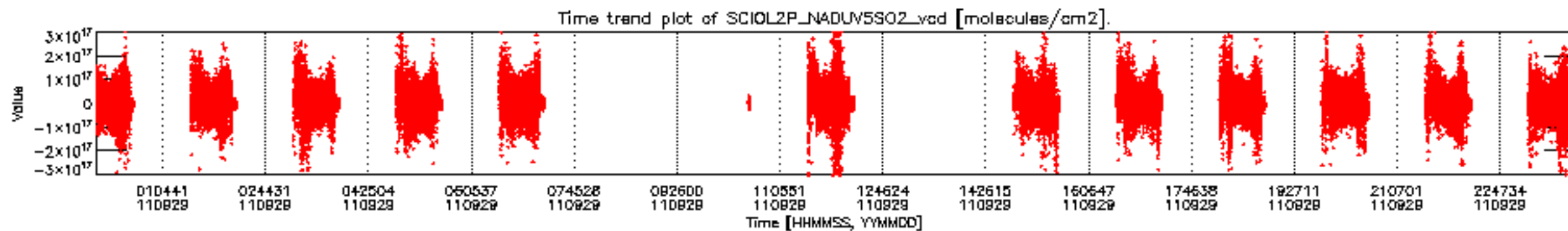


SCIOL2P_NADUV3BRO_amf_gr for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

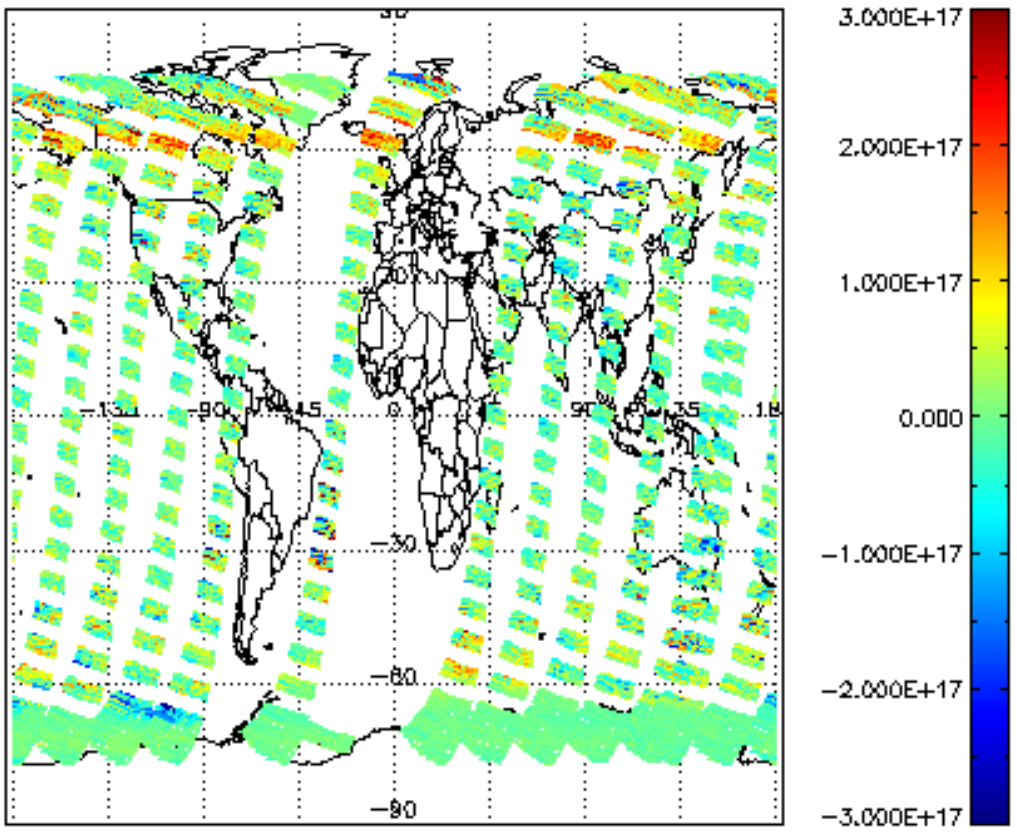


SCIOL2P_NADUV3BRO_amf_cl for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

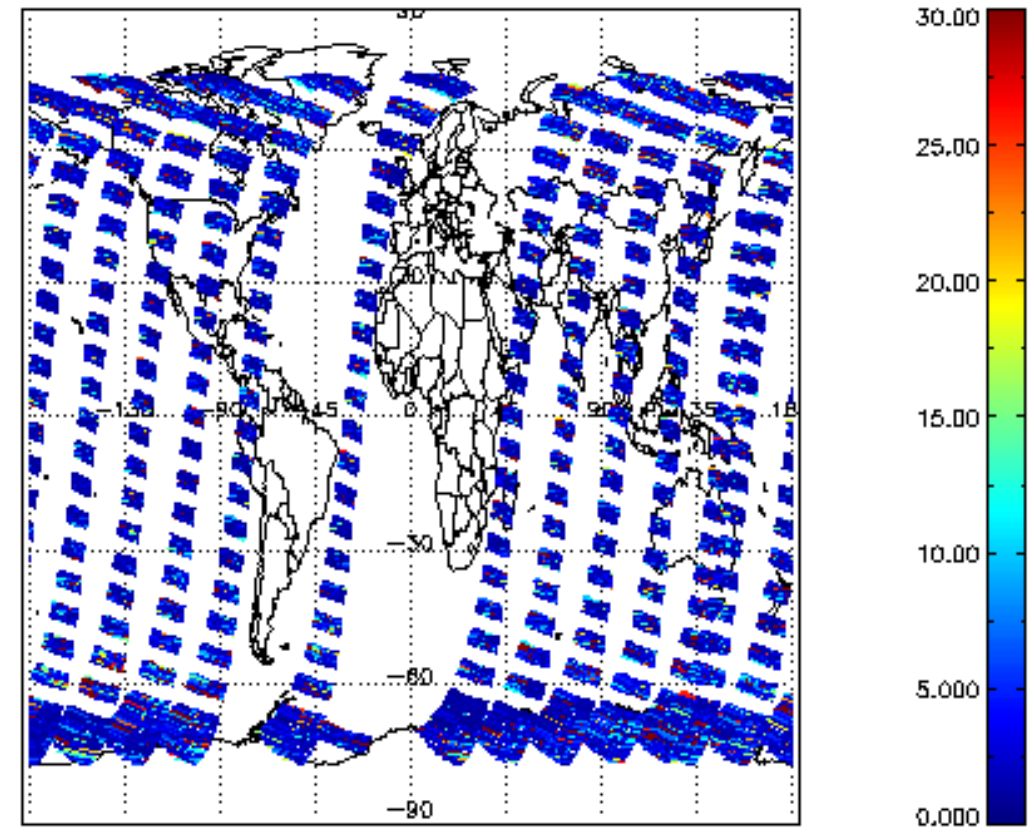




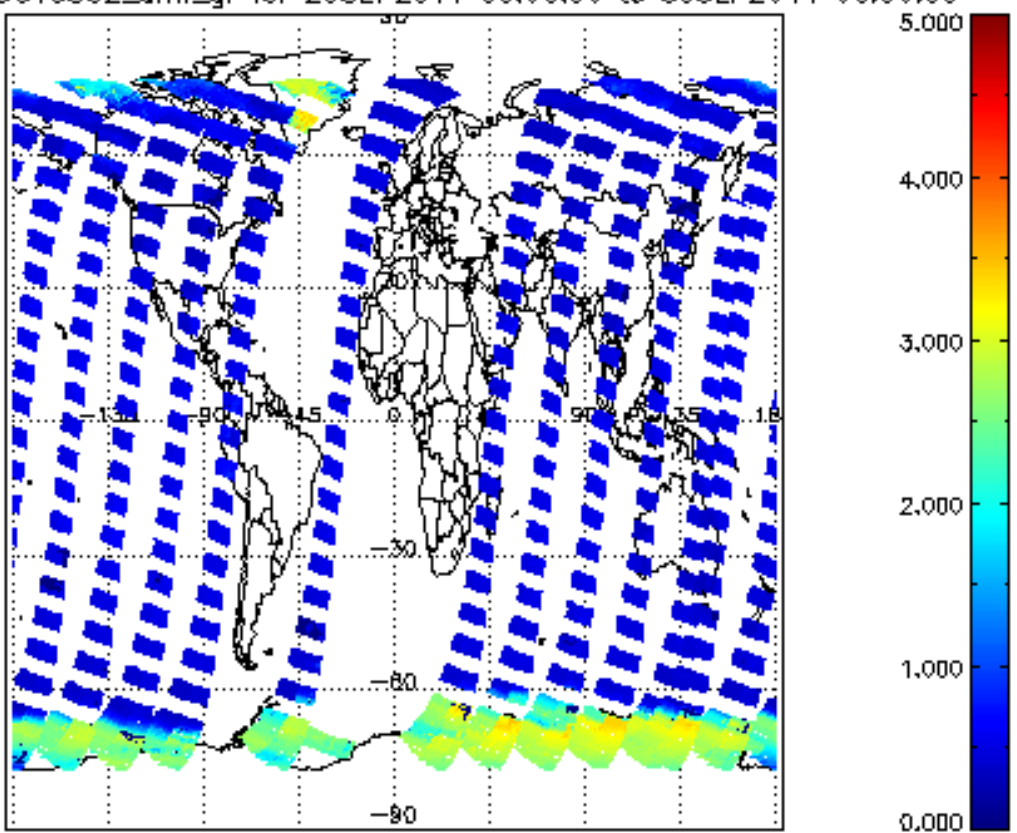
SCIOL2P_NADUV5S02_vcd for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



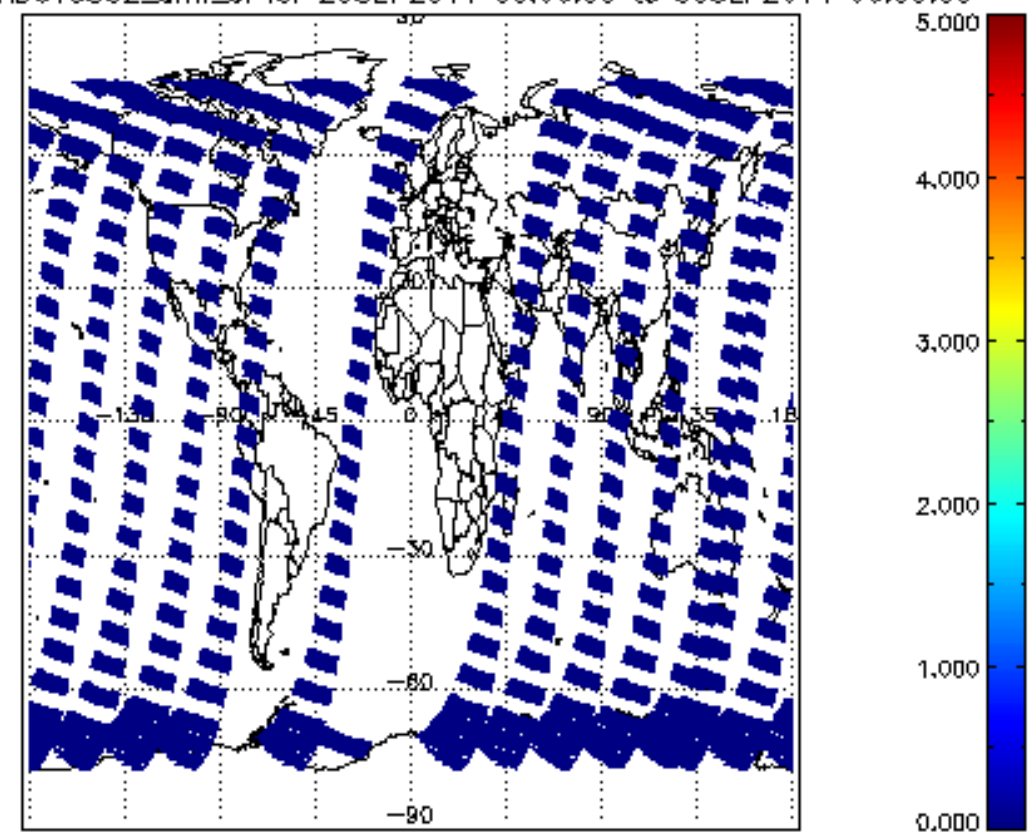
SCIOL2P_NADUV5S02_vcd_err for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

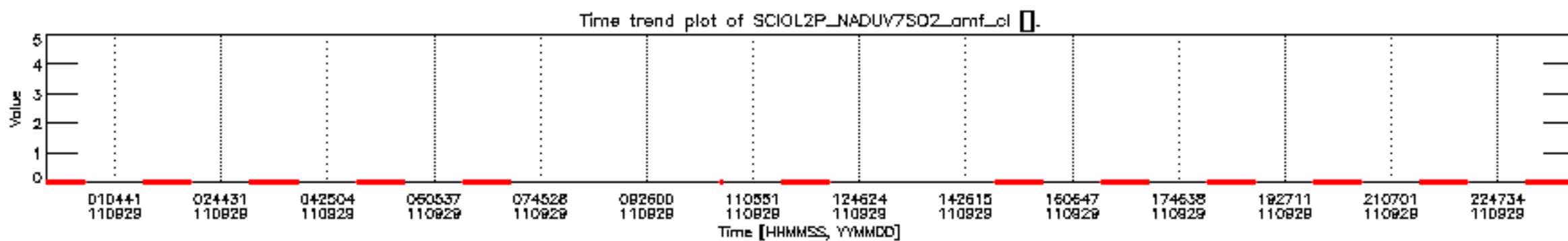
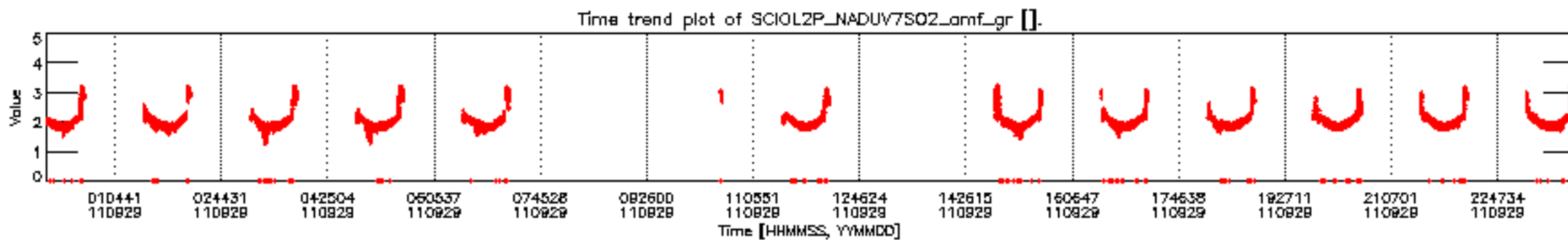
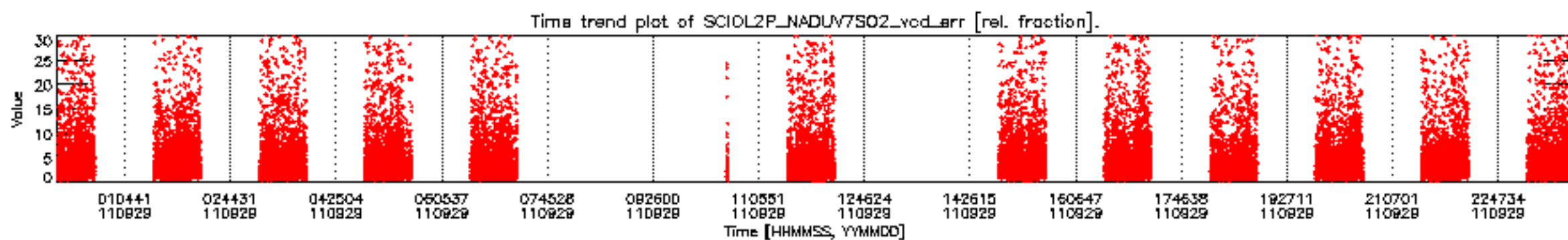
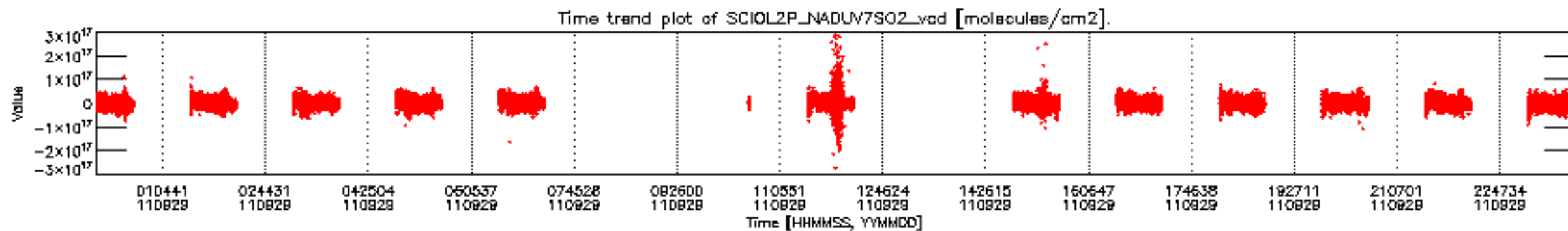


SCIOL2P_NADUV5S02_amf_gr for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

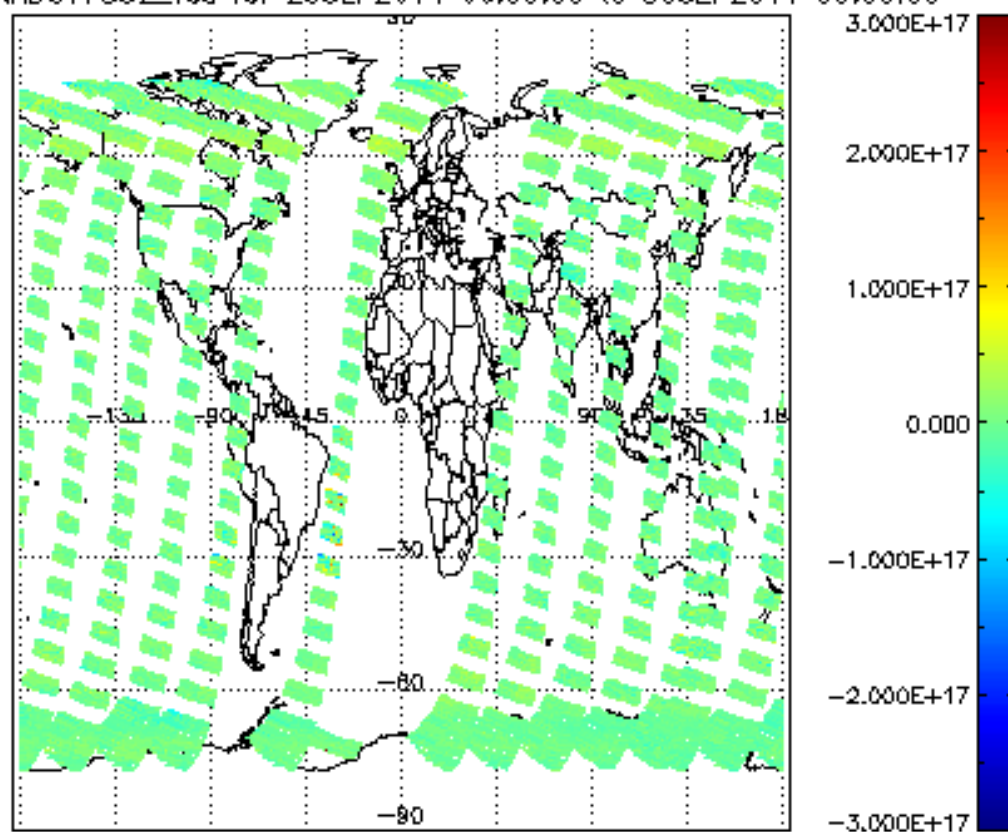


SCIOL2P_NADUV5S02_amf_cl for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

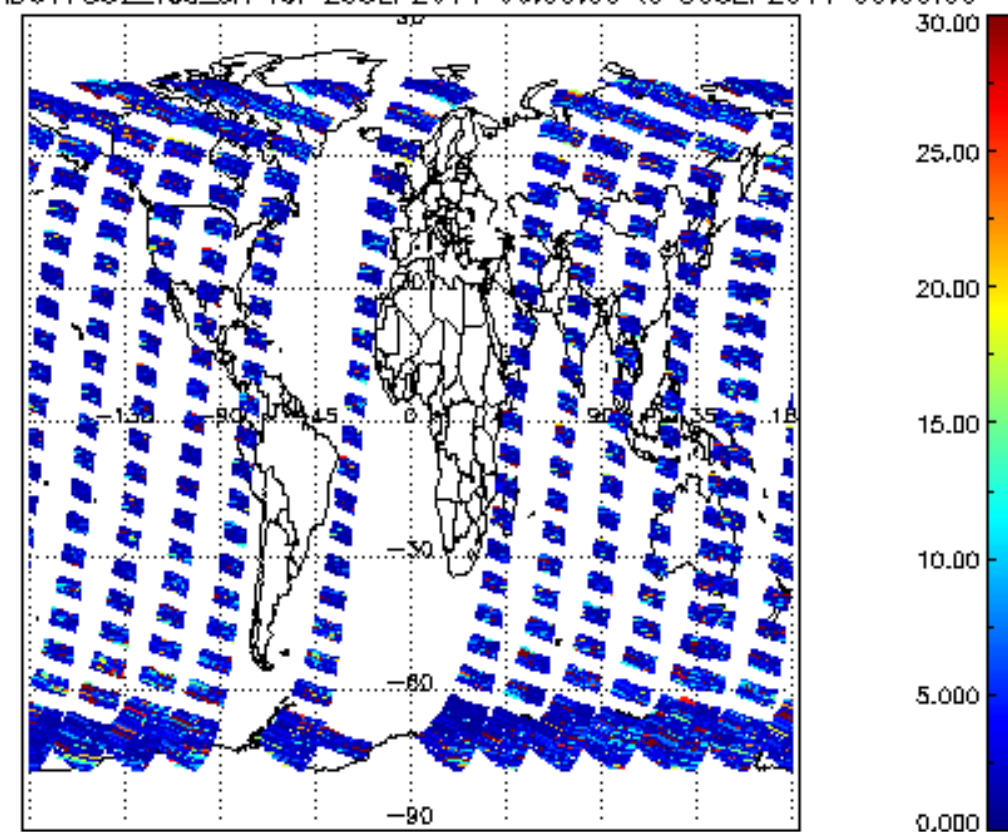




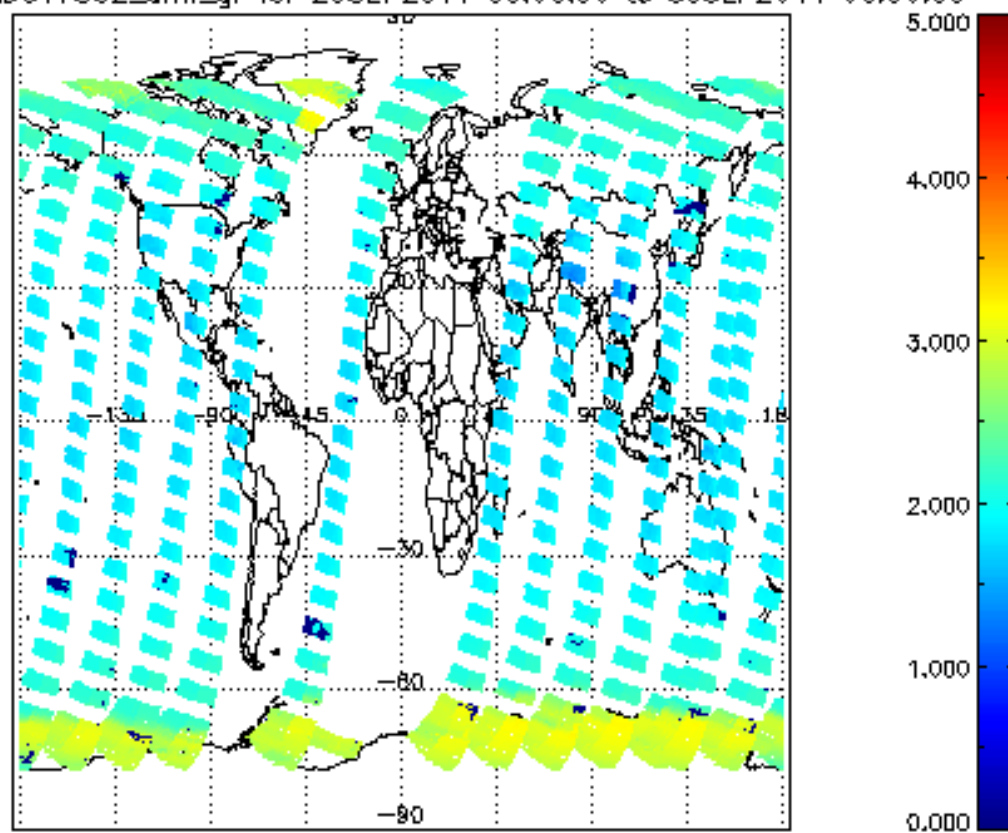
SCIOL2P_NADUV7S02_vcd for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



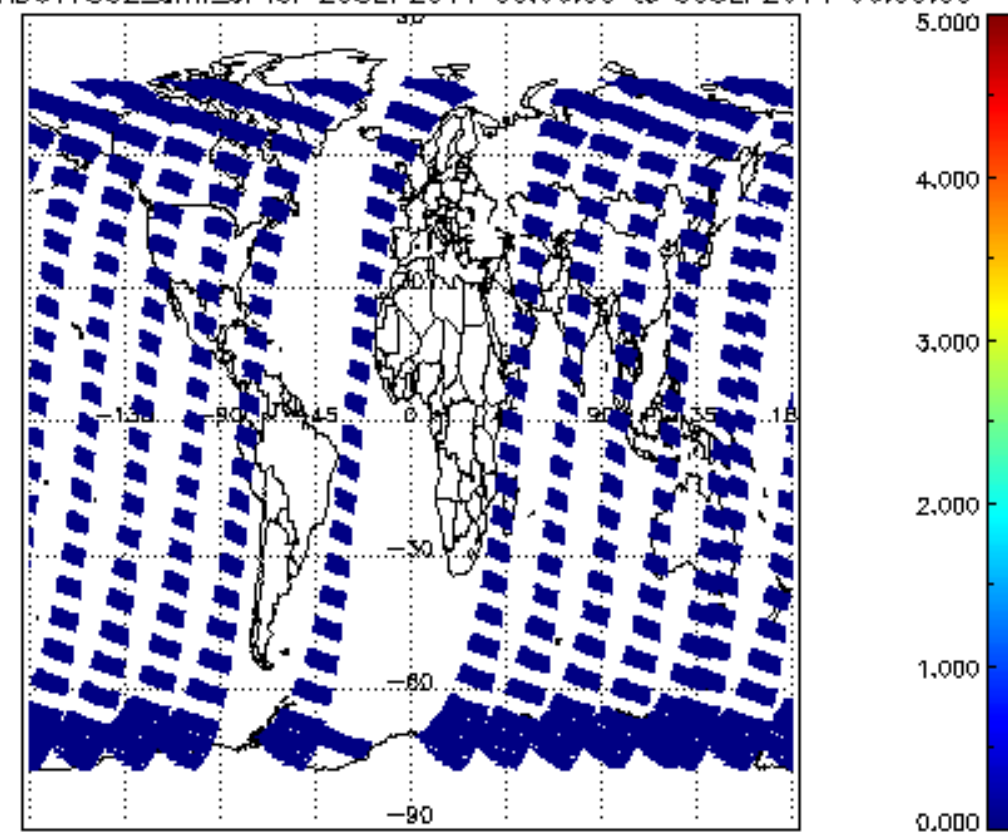
SCIOL2P_NADUV7S02_vcd_err for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

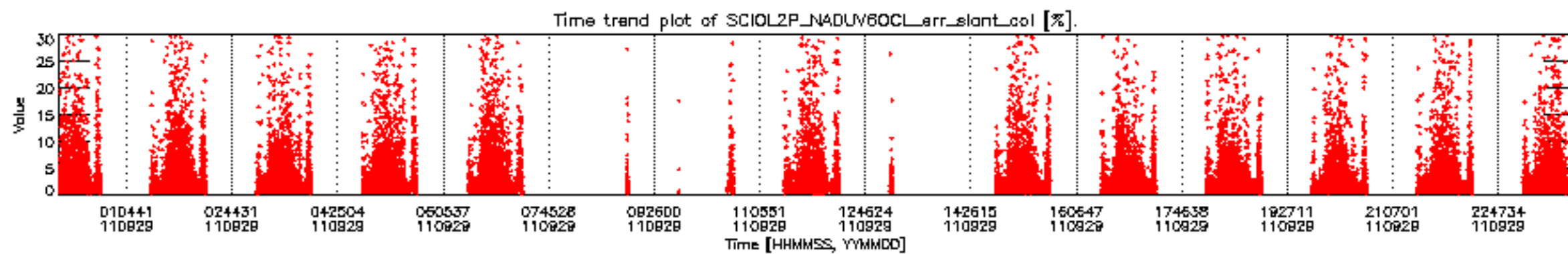
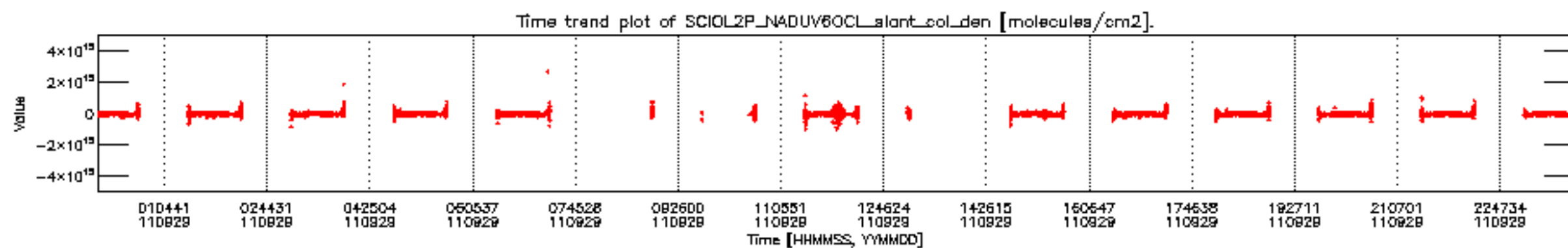


SCIOL2P_NADUV7S02_amf_gr for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

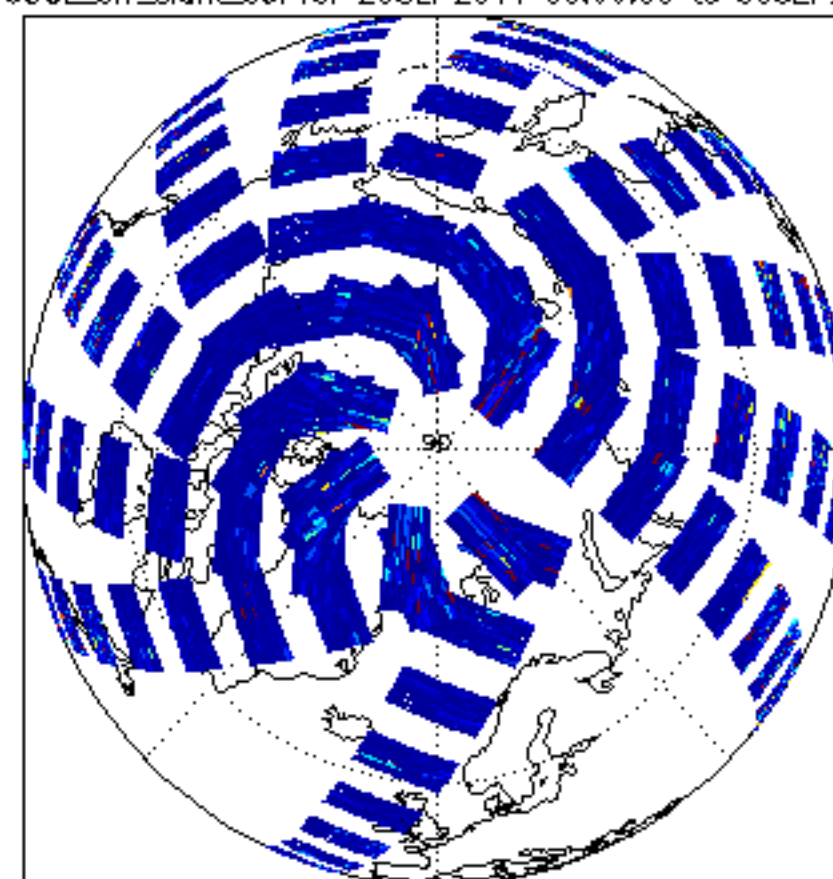
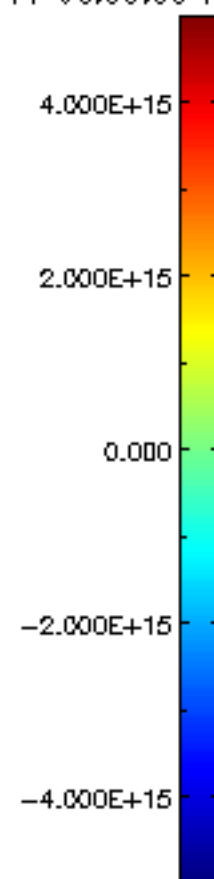
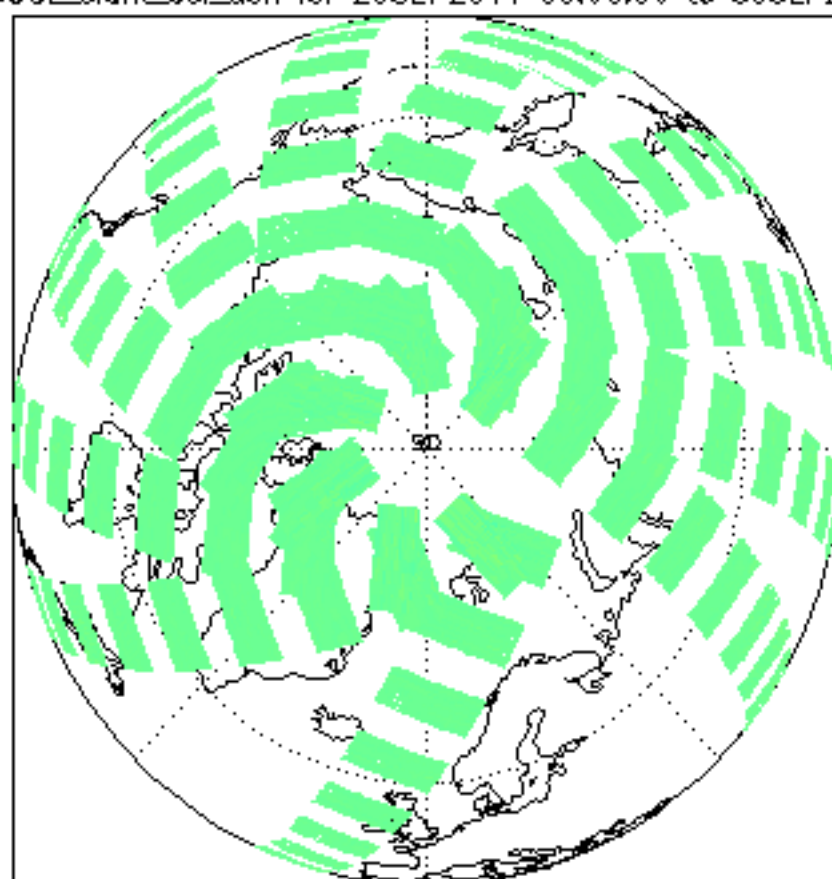


SCIOL2P_NADUV7S02_amf_cl for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

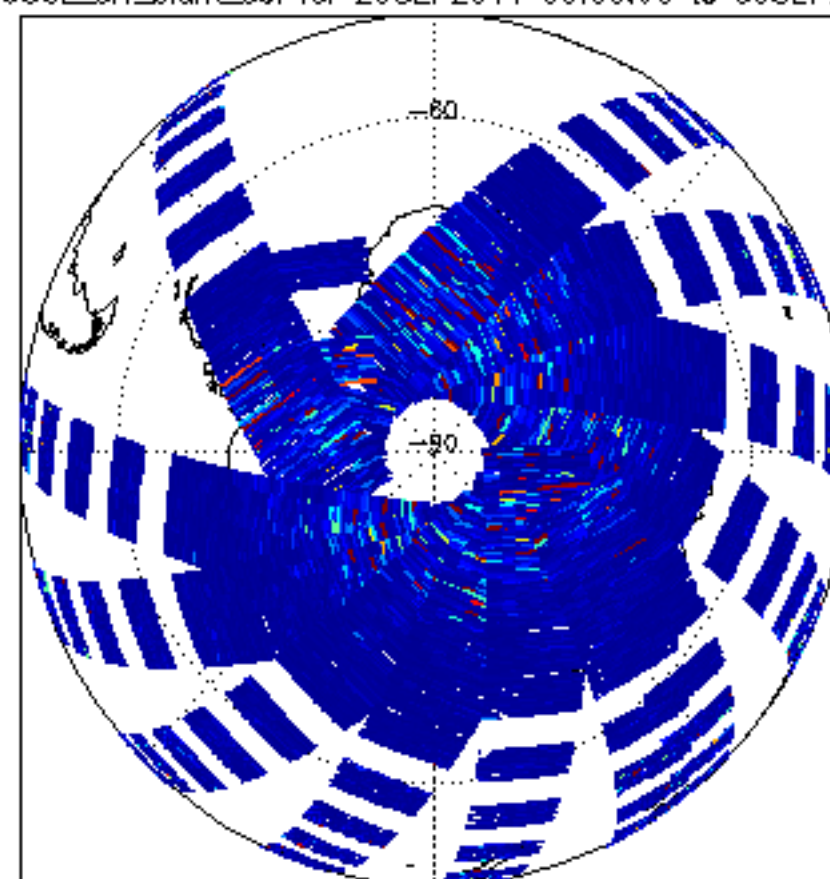
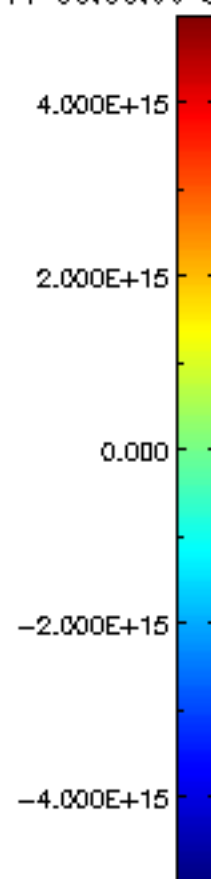
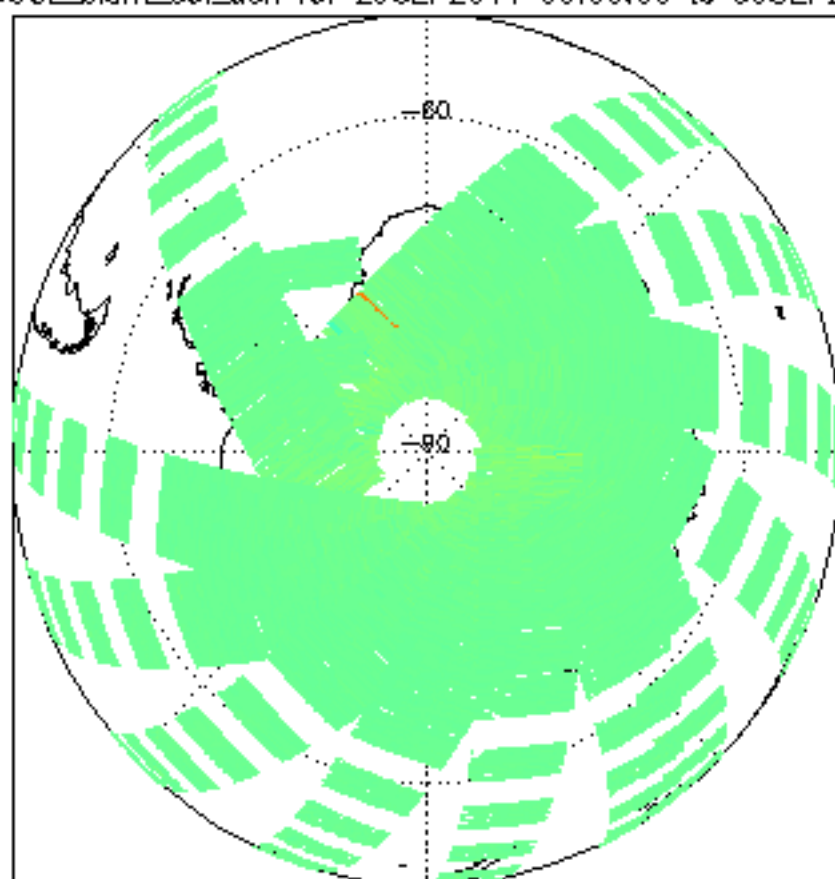


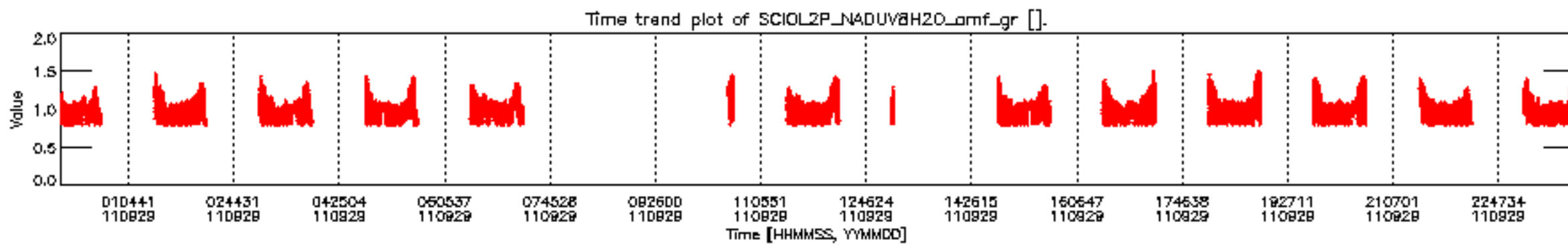
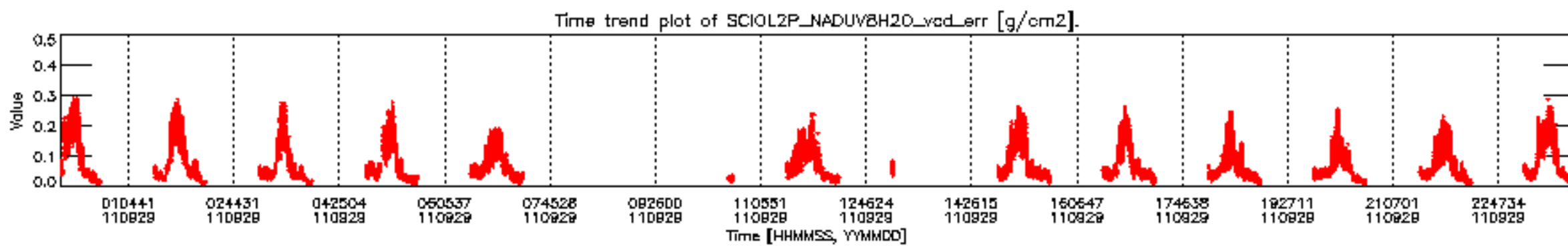
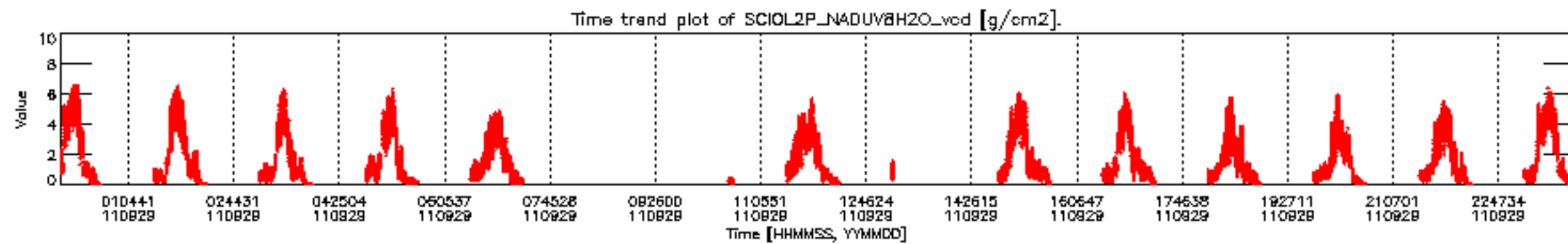


CIOL2P_NADUV6OCL_slant_col_den for 29SEP2011 00:00:00 to 30SEP2011 00:00:00 np iCIOL2P_NADUV6OCL_err_slant_col for 29SEP2011 00:00:00 to 30SEP2011 00:00:00 np

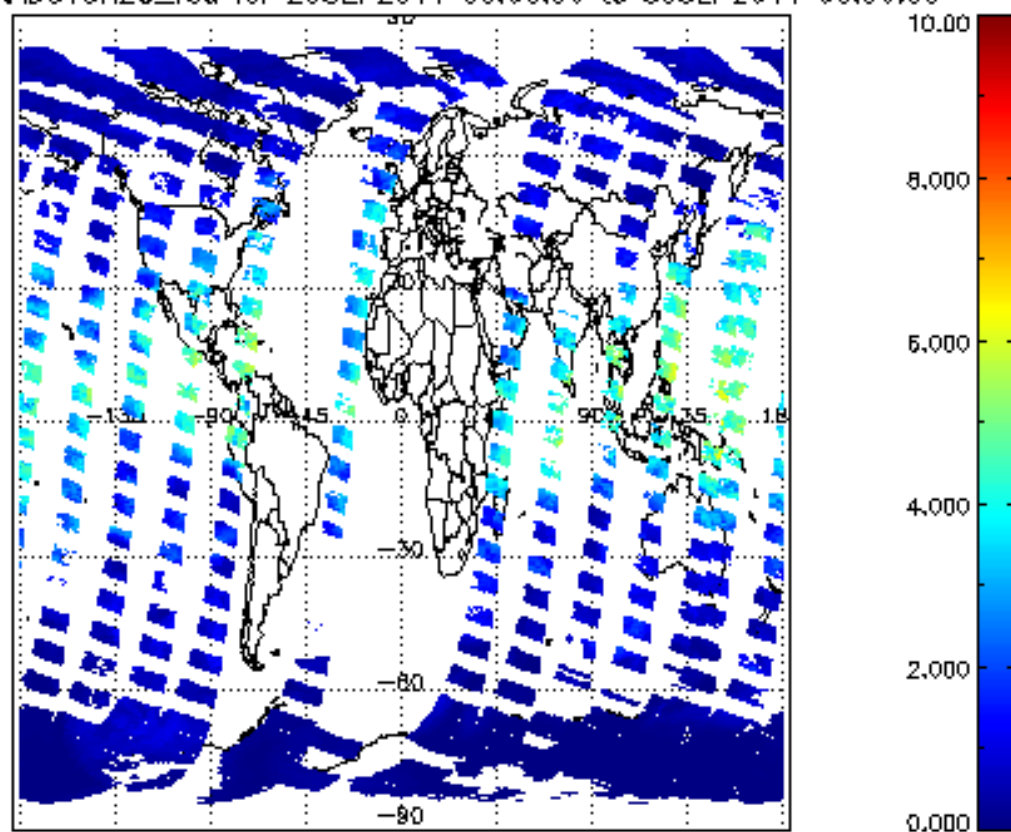


CIOL2P_NADUV60CL_slant_col_den for 29SEP2011 00:00:00 to 30SEP2011 00:00:00 sp iCIOL2P_NADUV60CL_err_slant_col for 29SEP2011 00:00:00 to 30SEP2011 00:00:00 sp

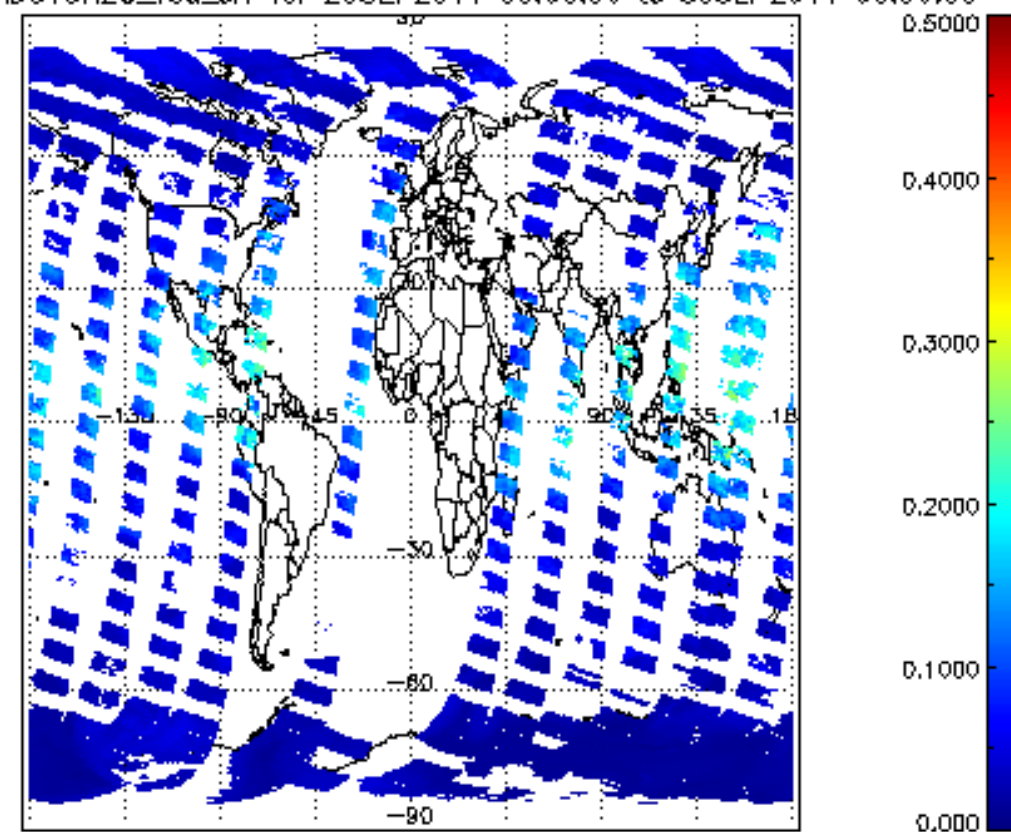




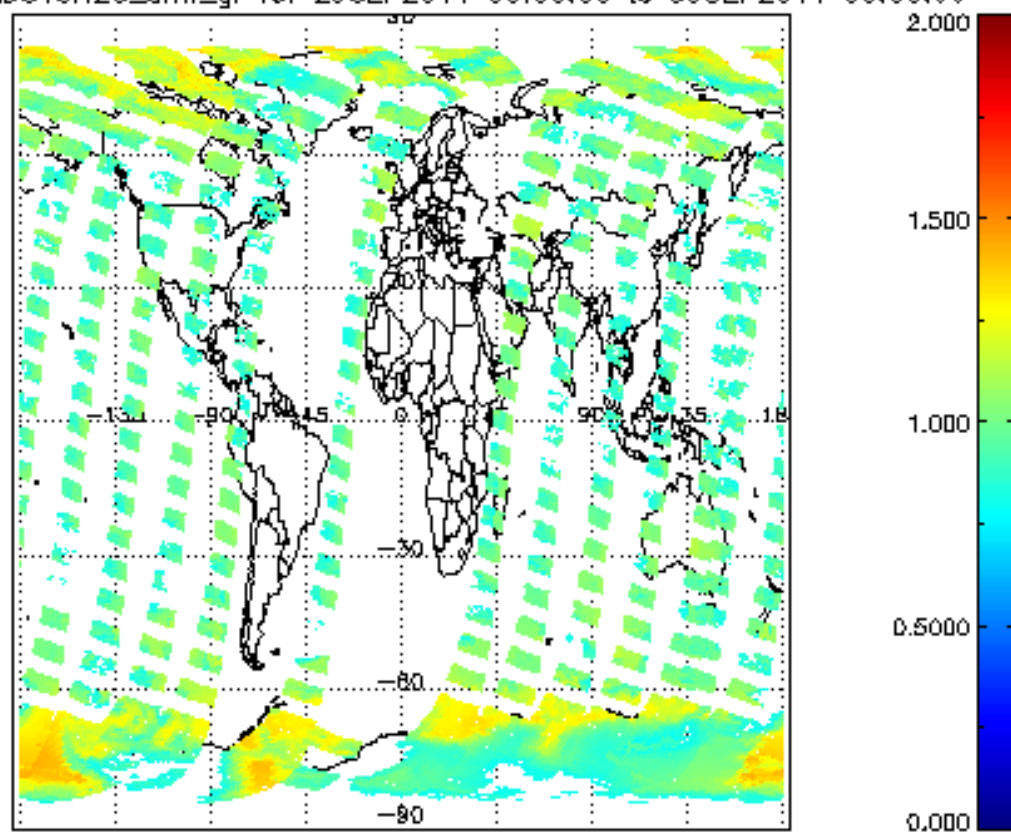
SCIOL2P_NADUV8H20_vcd for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

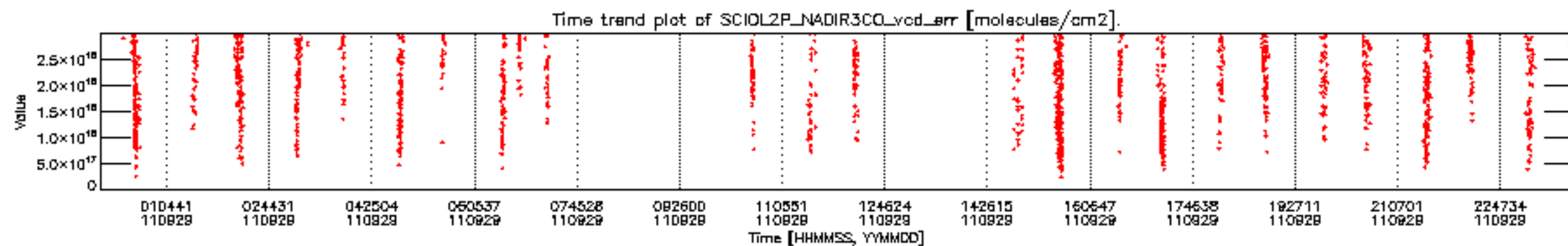
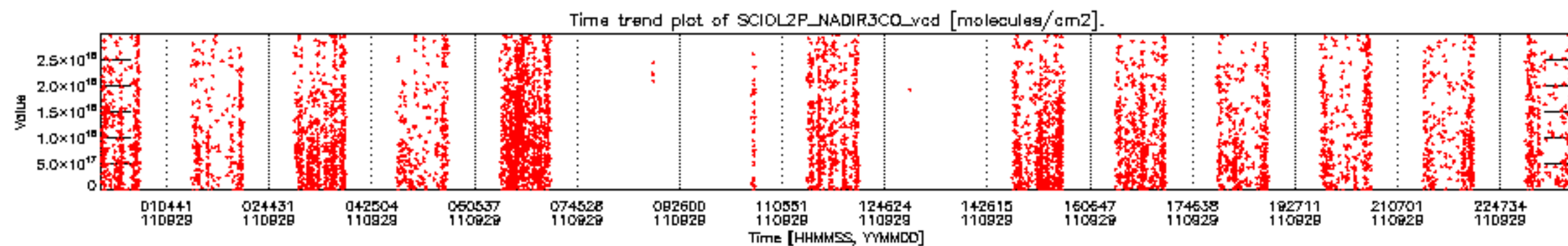


SCIOL2P_NADUV8H20_vcd_err for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

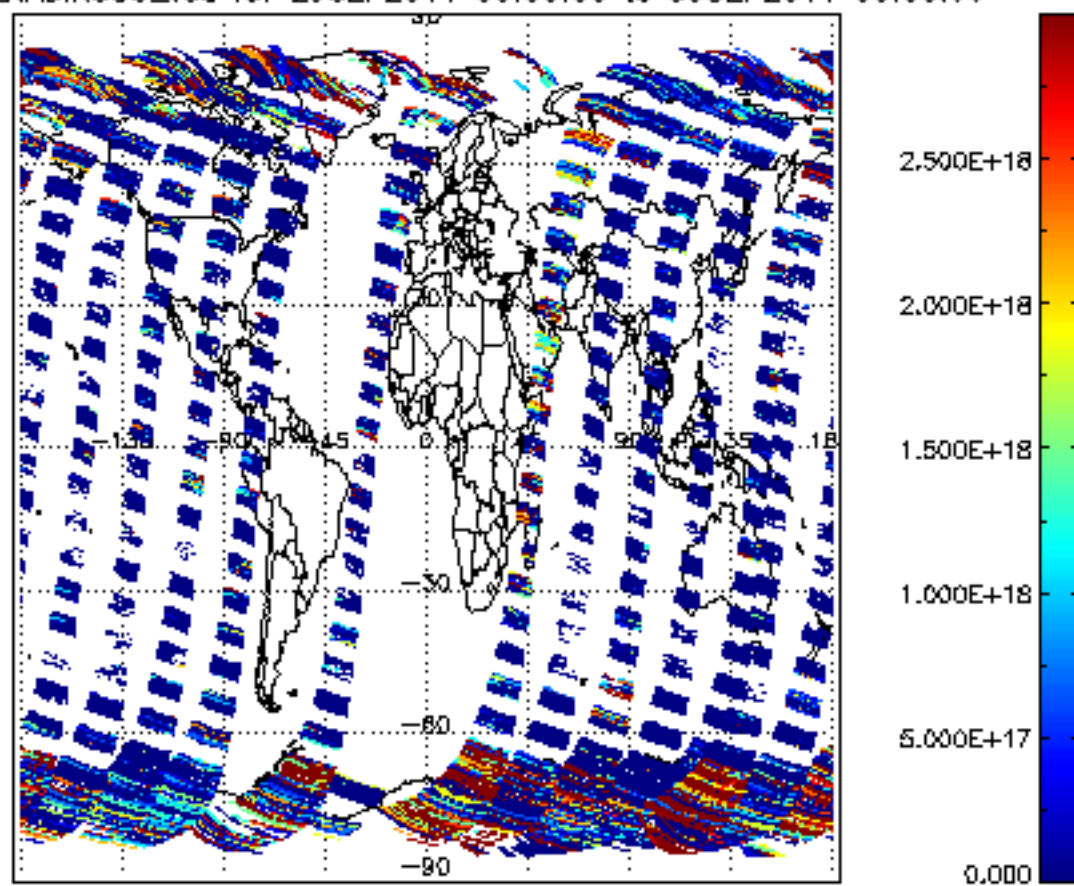


SCIOL2P_NADUV8H20_amf_gr for 29SEP2011 00:00:00 to 30SEP2011 00:00:00

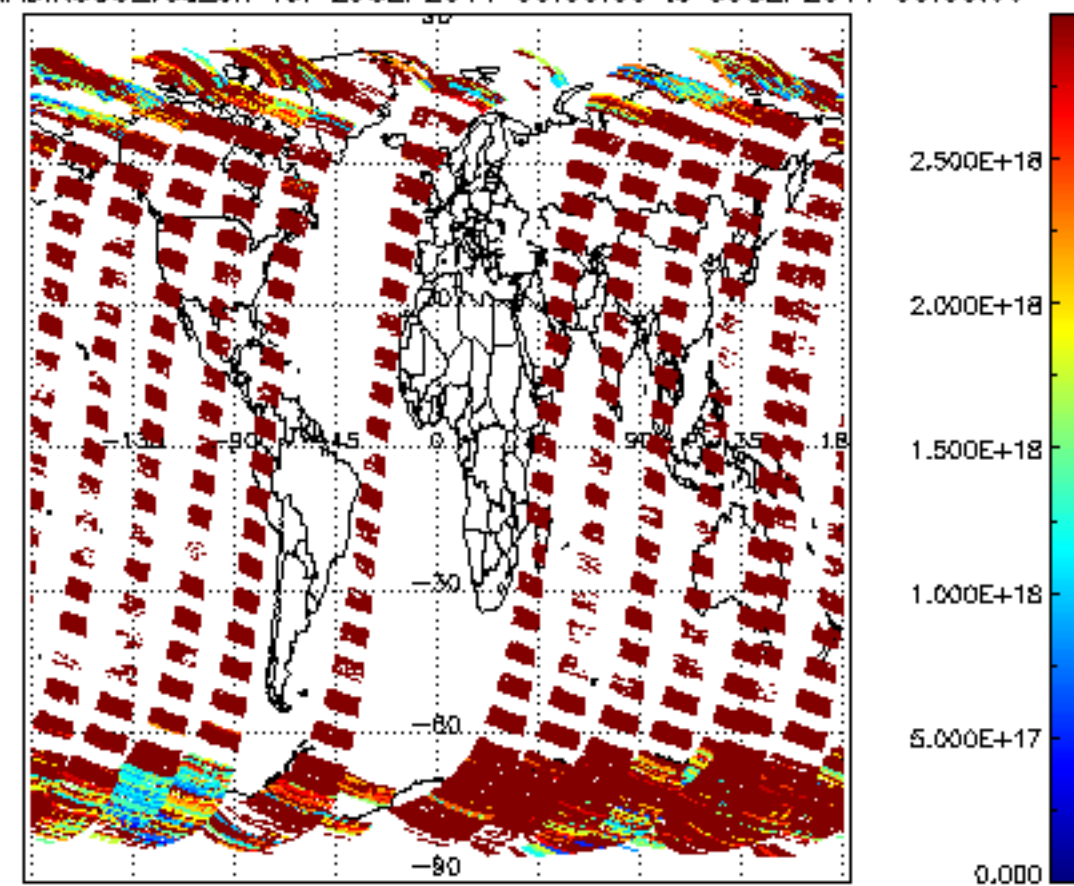




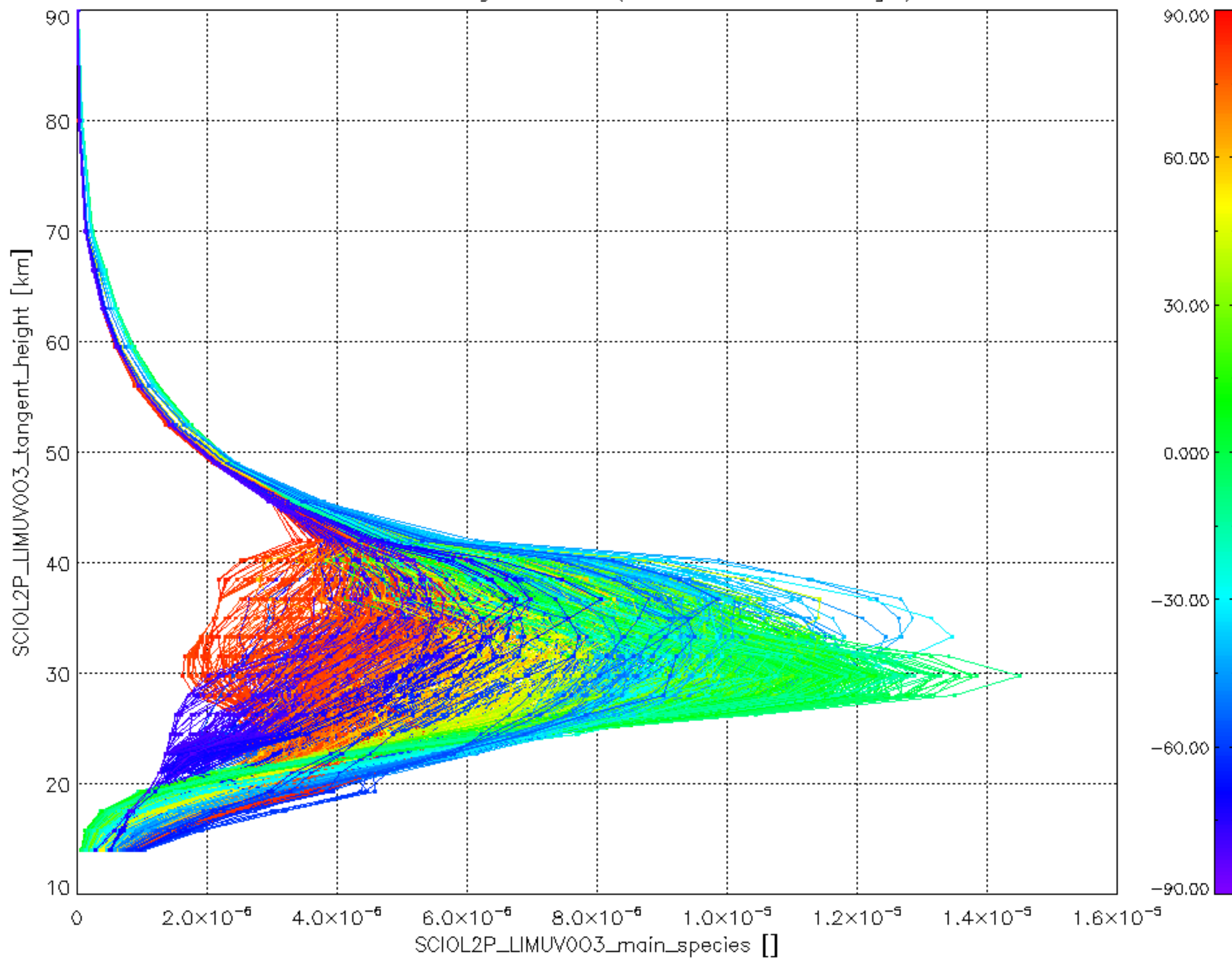
SCIOL2P_NADIR3CO_vcd for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



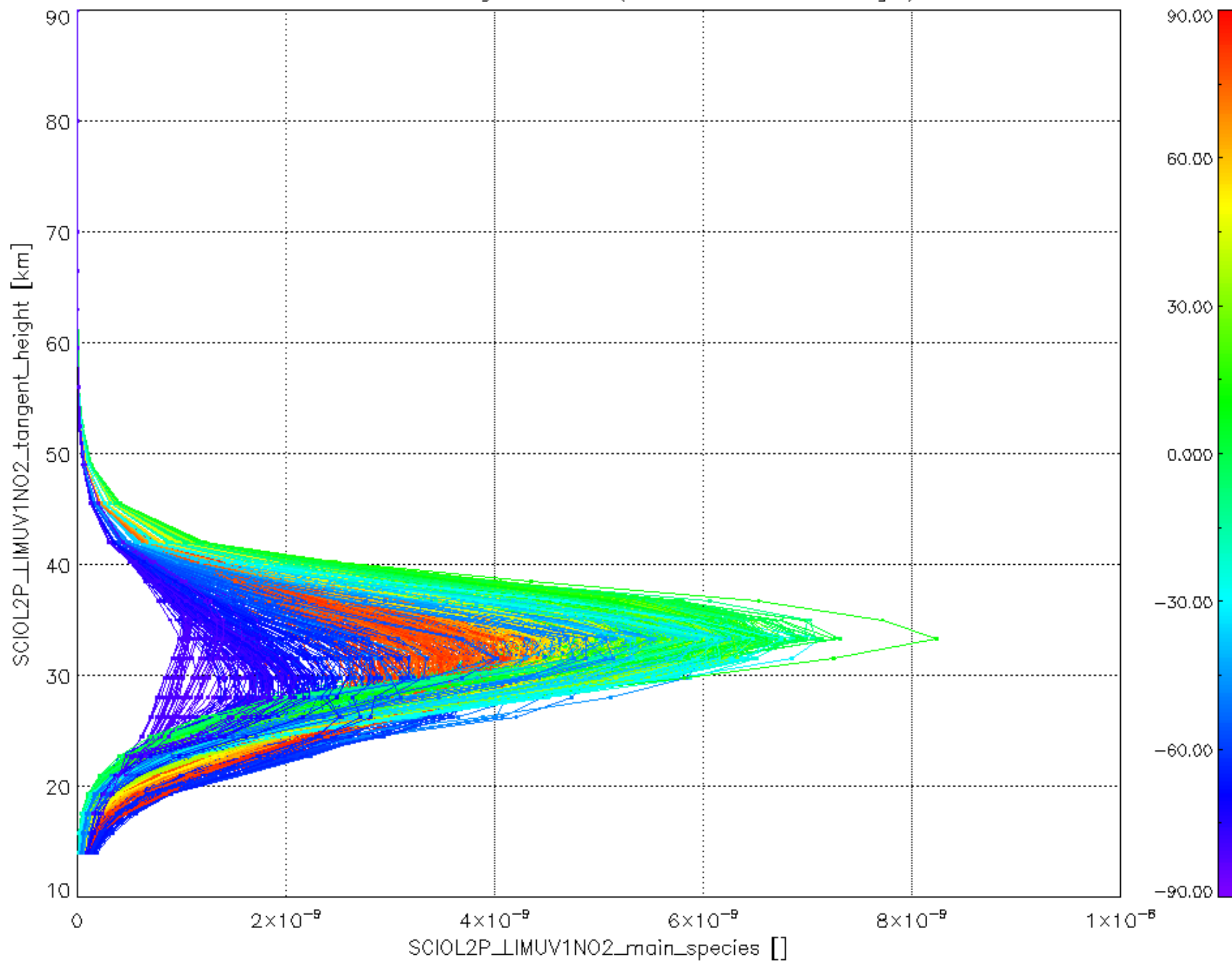
SCIOL2P_NADIR3CO_vcd_err for 29SEP2011 00:00:00 to 30SEP2011 00:00:00



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).

