

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	08MAR2012 03:22:49
Data source version	SCIA-OL/5.02-W
Processing scope for products	24FEB2012 00:00:00 to 25FEB2012 00:00:00
Start time of first product within scope	23FEB2012 23:17:34
Stop time of last product within scope	24FEB2012 23:39:19
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__2PWDPA20120223_231734_000035163112_00059_52228_3706.N1	23FEB2012 23:17:34	24FEB2012 00:16:10	0	GOOD
1	SCI_OL__2PWDPA20120224_005747_000035303112_00060_52229_3707.N1	24FEB2012 00:57:47	24FEB2012 01:56:38	0	GOOD
2	SCI_OL__2PWDPA20120224_023801_000035163112_00061_52230_3708.N1	24FEB2012 02:38:01	24FEB2012 03:36:37	0	GOOD
3	SCI_OL__2PWDPA20120224_041814_000035303112_00062_52231_3711.N1	24FEB2012 04:18:14	24FEB2012 05:17:05	0	GOOD
4	SCI_OL__2PWDPA20120224_055828_000035163112_00063_52232_3712.N1	24FEB2012 05:58:28	24FEB2012 06:57:04	0	GOOD

5	SCI_OL__2PWDP	20120224_073841_000035303112_00064_52233_3713.N1	24FEB2012 07:38:41	24FEB2012 08:37:32	0	GOOD
6	SCI_OL__2PWDP	20120224_091855_000035163112_00065_52234_3714.N1	24FEB2012 09:18:55	24FEB2012 10:17:31	0	GOOD
7	SCI_OL__2PWDP	20120224_105908_000035303112_00066_52235_3715.N1	24FEB2012 10:59:08	24FEB2012 11:57:59	0	GOOD
8	SCI_OL__2PWDP	20120224_123922_000035163112_00067_52236_3716.N1	24FEB2012 12:39:22	24FEB2012 13:37:58	0	GOOD
9	SCI_OL__2PWDP	20120224_141935_000035303112_00068_52237_3717.N1	24FEB2012 14:19:35	24FEB2012 15:18:26	0	GOOD
10	SCI_OL__2PWDP	20120224_155949_000035163112_00069_52238_3718.N1	24FEB2012 15:59:49	24FEB2012 16:58:25	0	GOOD
11	SCI_OL__2PWDP	20120224_174108_000034713112_00070_52239_3719.N1	24FEB2012 17:41:08	24FEB2012 18:39:00	0	GOOD
12	SCI_OL__2PWDP	20120224_192036_000035163112_00071_52240_3720.N1	24FEB2012 19:20:36	24FEB2012 20:19:12	0	GOOD
13	SCI_OL__2PWDP	20120224_210029_000035303112_00072_52241_3721.N1	24FEB2012 21:00:29	24FEB2012 21:59:20	0	GOOD
14	SCI_OL__2PWDP	20120224_224043_000035163112_00073_52242_3722.N1	24FEB2012 22:40:43	24FEB2012 23:39:19	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: 158860

Total number of cloud data DSRs with good quality flag (=0): 158860 (100.0 %)

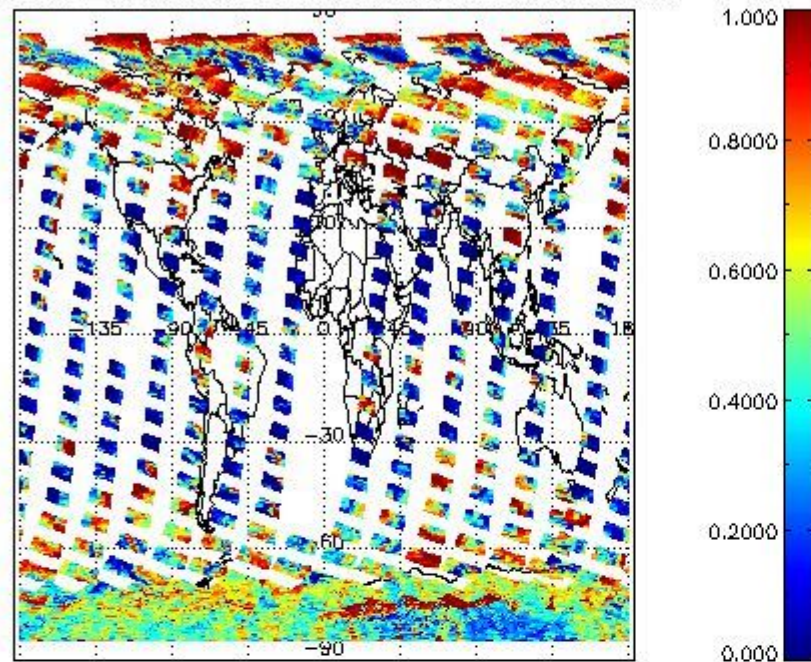
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	158860	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	158860	0.16367	0.12500	0.12500	0.25000	0.057777	s
CL_FRAC	158860	0.47326	0.46384	0.0000	1.0000	0.31649	
CL_FRAC_ERR	158860	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	158860	5.2373	4.0000	4.0000	8.0000	1.8489	
PMD_READ_CL[0]	158860	0.63358	0.0000	0.0000	8.0000	1.5335	-
PMD_READ_CL[1]	158860	1.0663	0.0000	0.0000	8.0000	2.3872	-
CL_TOP_HEIGHT	129238	3.9065	2.6759	0.0000	17.000	3.8367	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	129238	57.819	54.397	0.0000	101.00	40.243	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	158860	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	158860	11001011	11000100	11000000	11100000	3379.3	
AERO_ABSO_IND	158860	0.081644	0.0000	0.0000	11.625	0.27708	
AERO_IND_DIAG	158860	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	158860	01010010	00000000	00000000	11000000	24345.	

Time and geolocation plots:

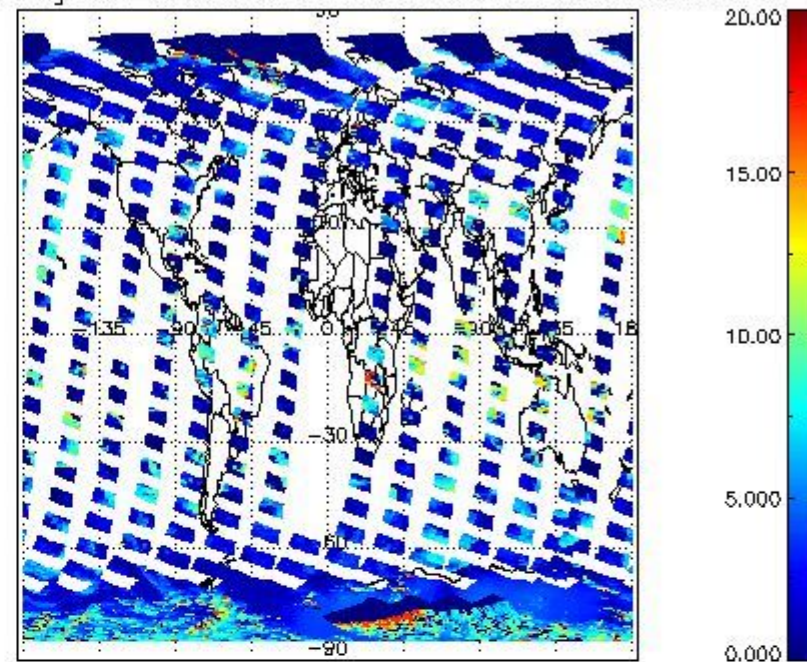
Plots are available for the following parameters:

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

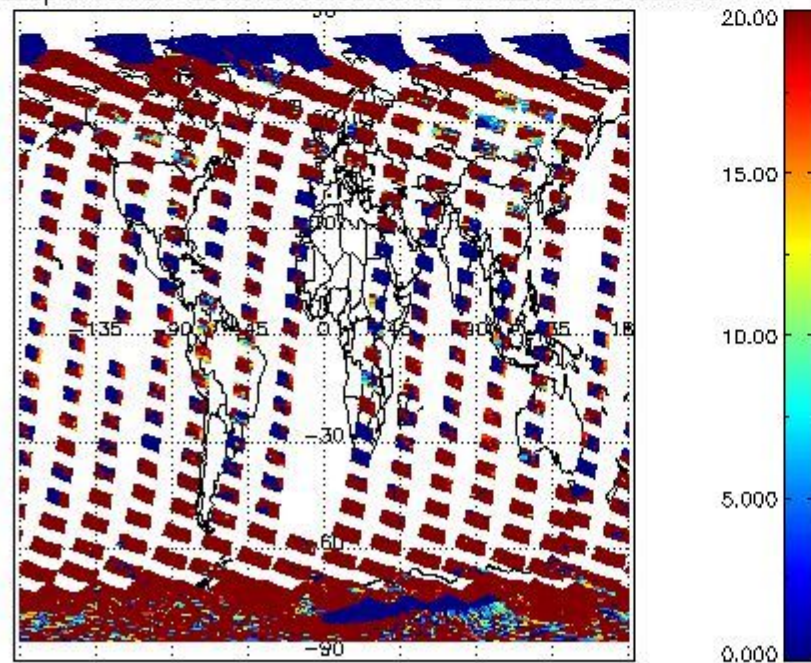
cL_frac for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



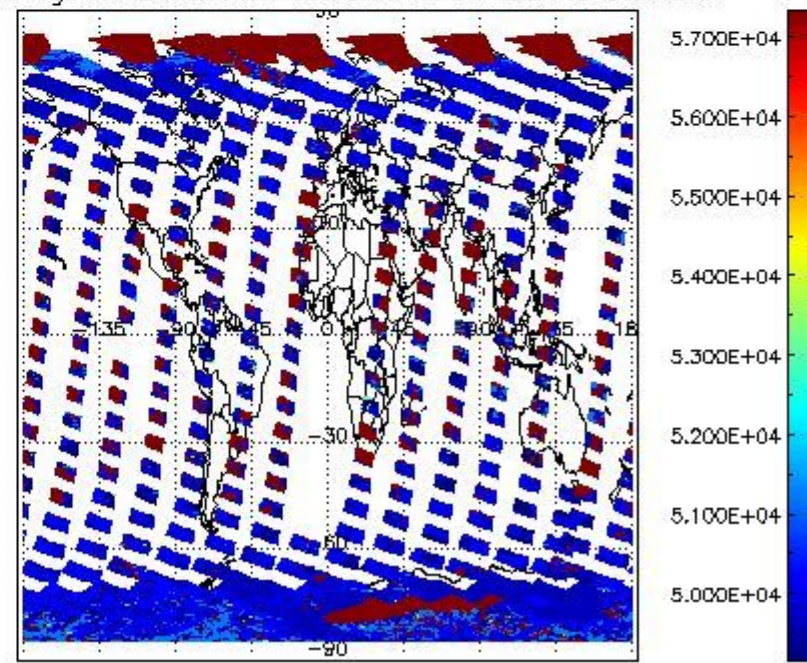
cL_top_height for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



cL_opt_depth for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



cloud_flags for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



2.2.2 Nadir

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

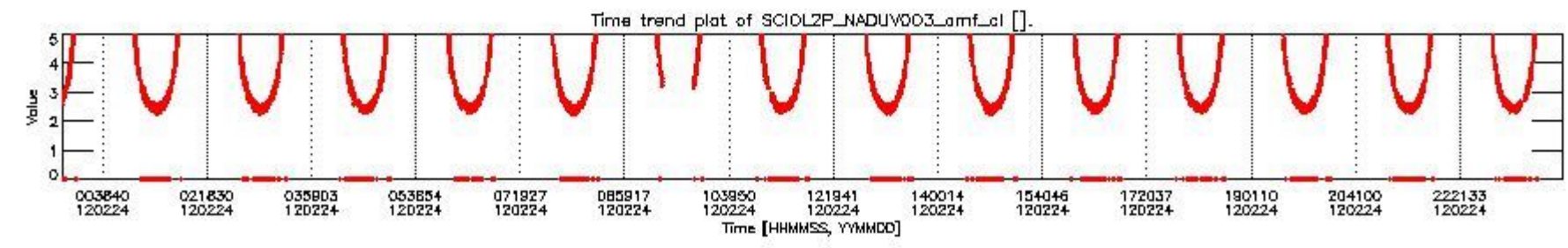
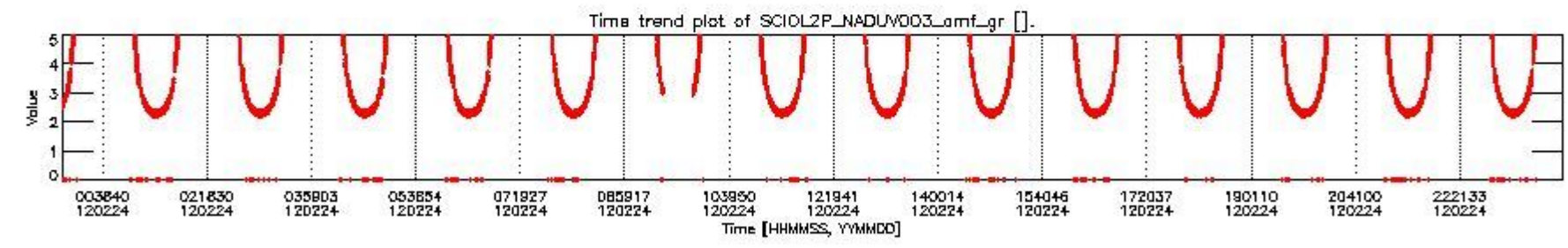
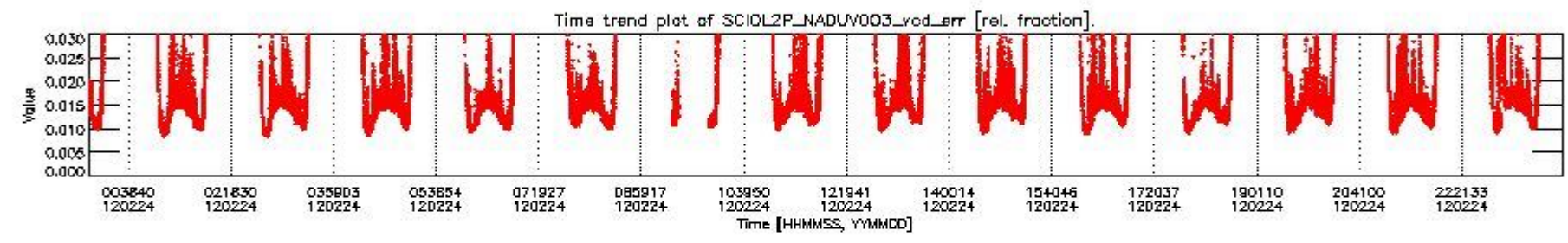
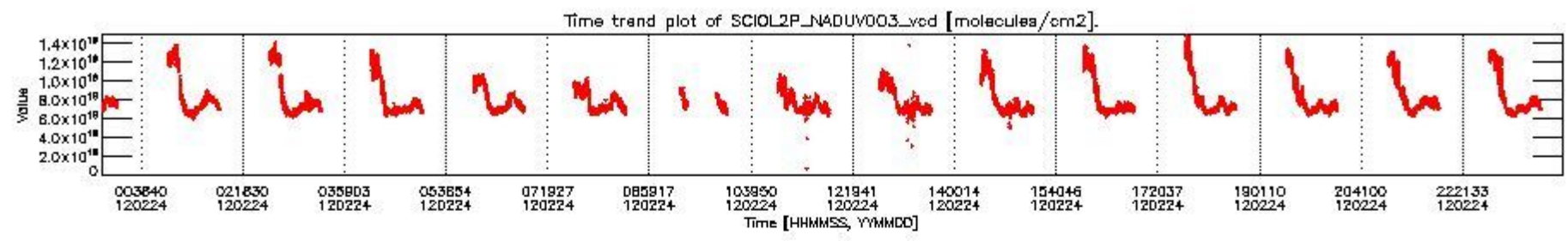
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

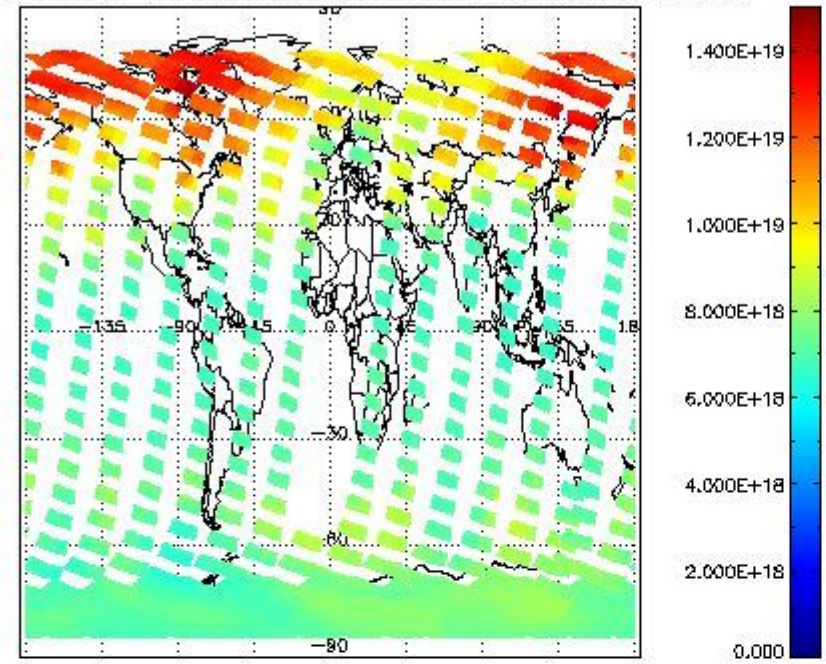
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

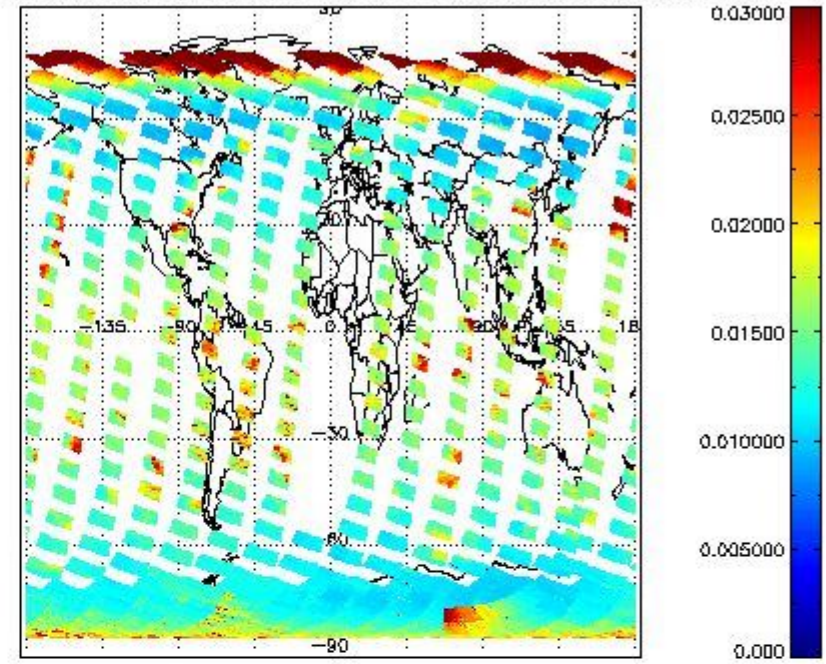
2.2.2.1 O3 (UV0)



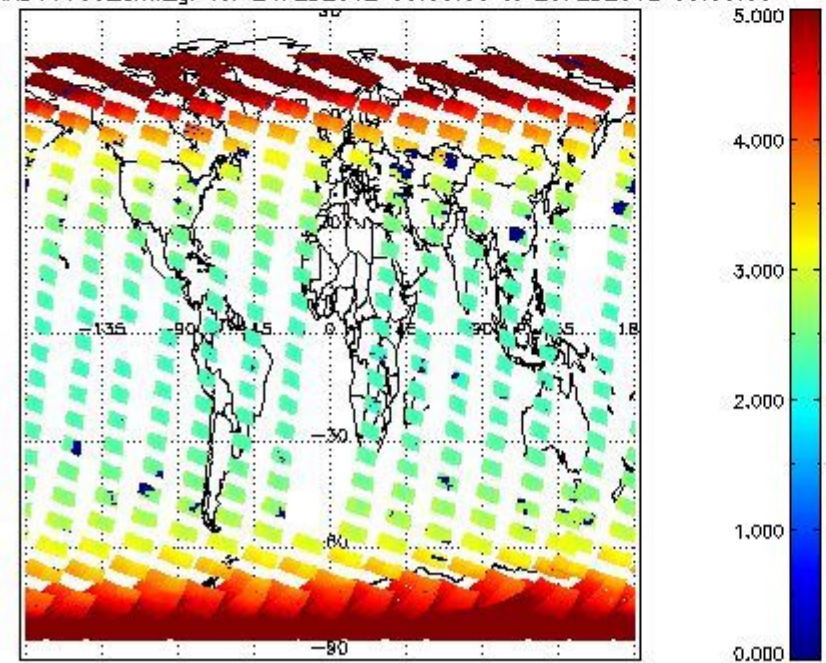
SCIOL2P_NADUV003_vcd for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



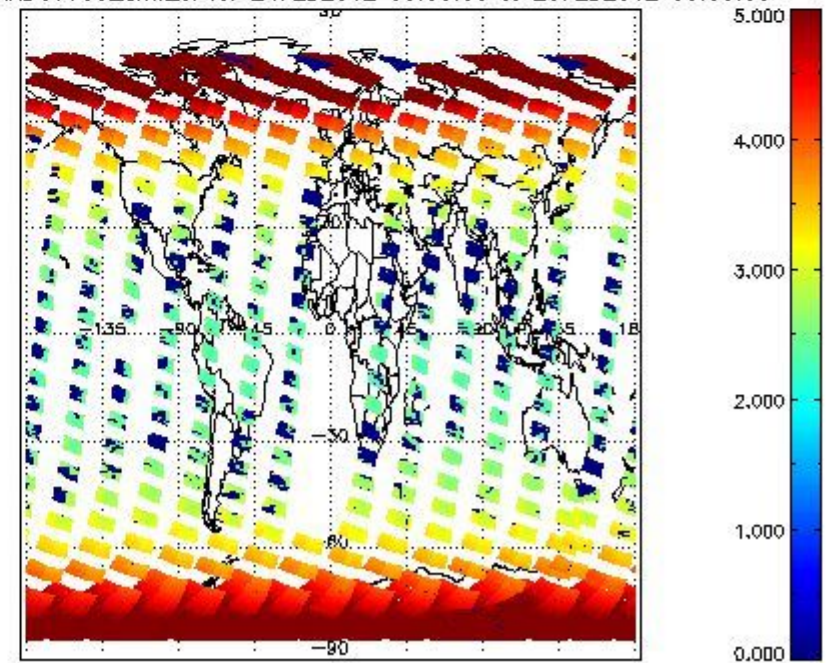
SCIOL2P_NADUV003_vcd_err for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



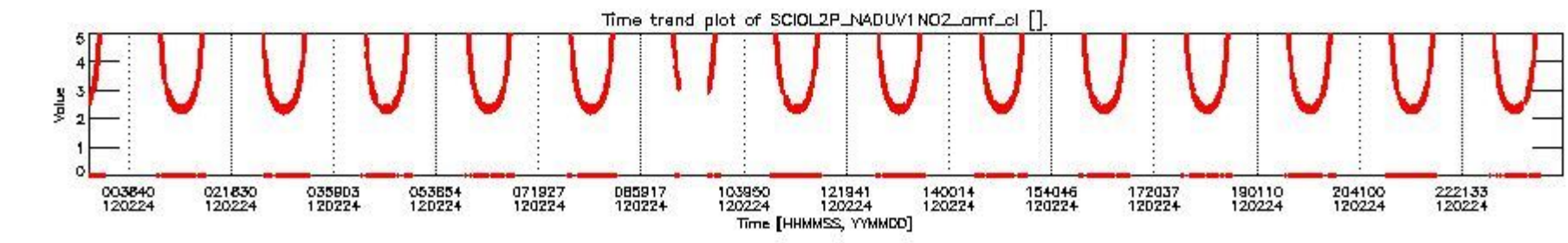
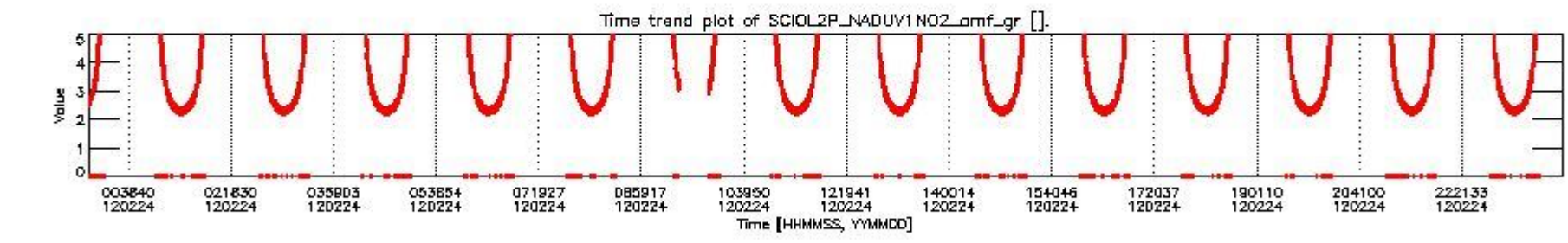
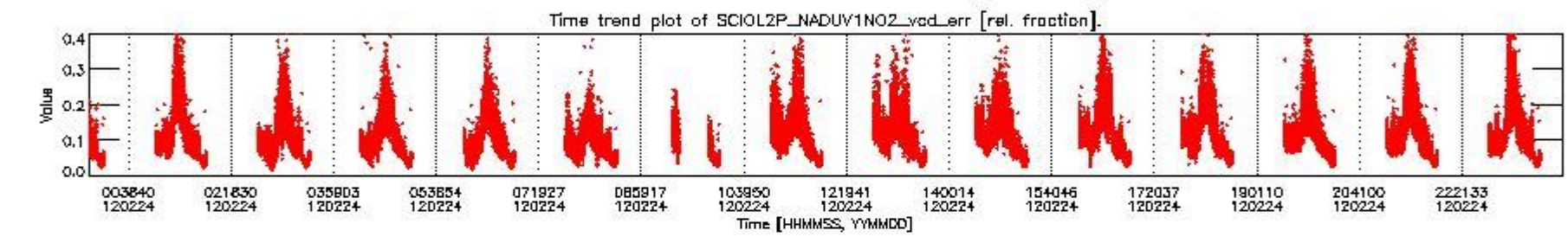
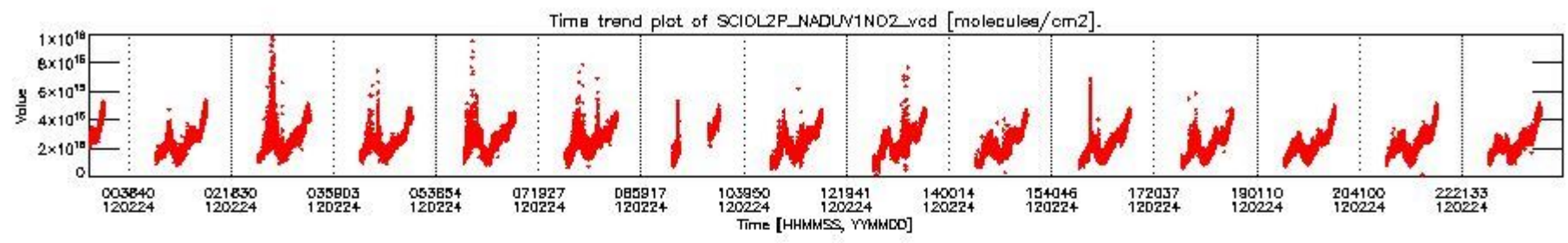
SCIOL2P_NADUV003_amf_gr for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



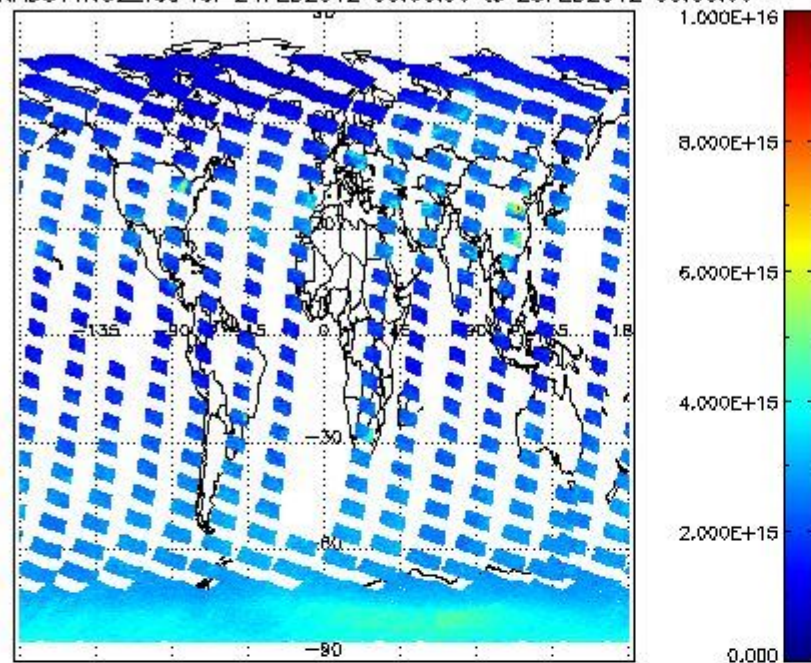
SCIOL2P_NADUV003_amf_cl for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



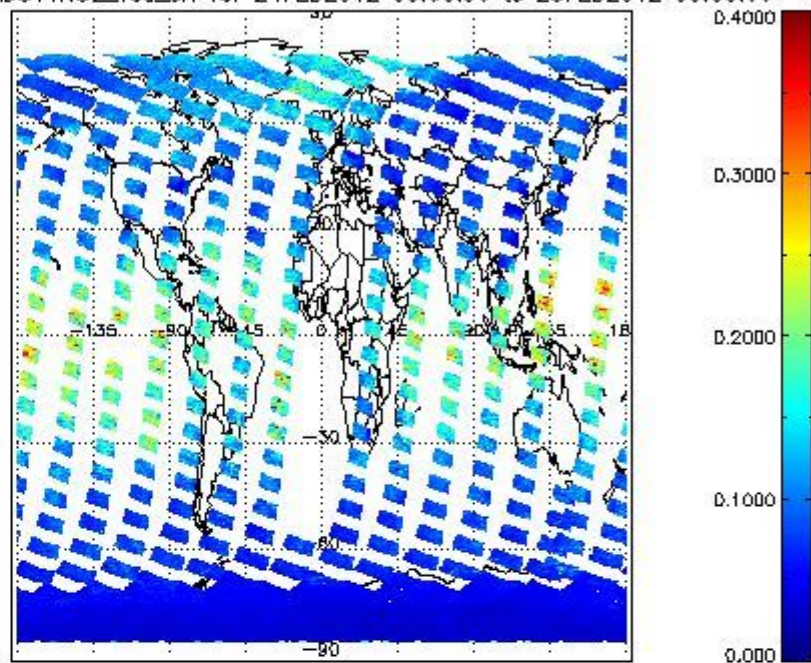
2.2.2.2 NO2 (UV1)



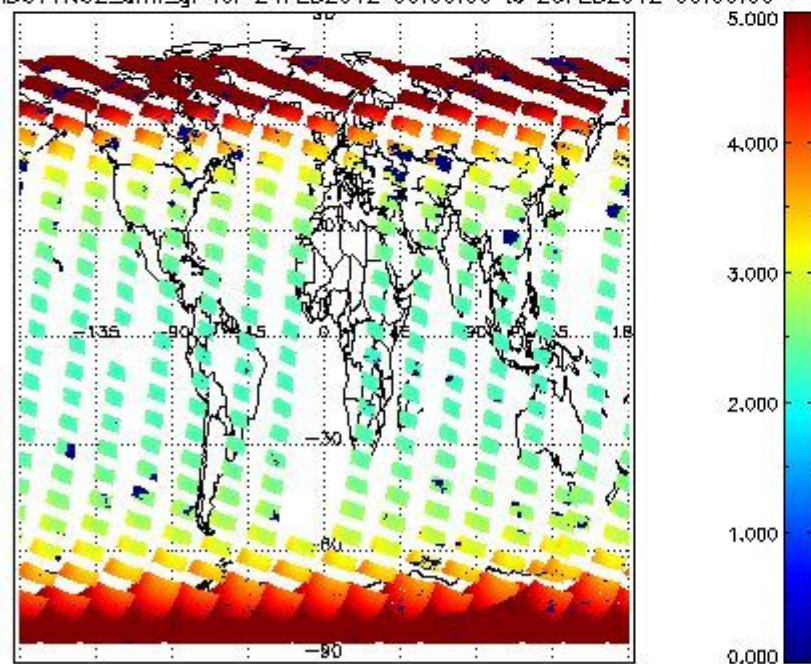
SCIOL2P_NADUV1N02_vcd for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



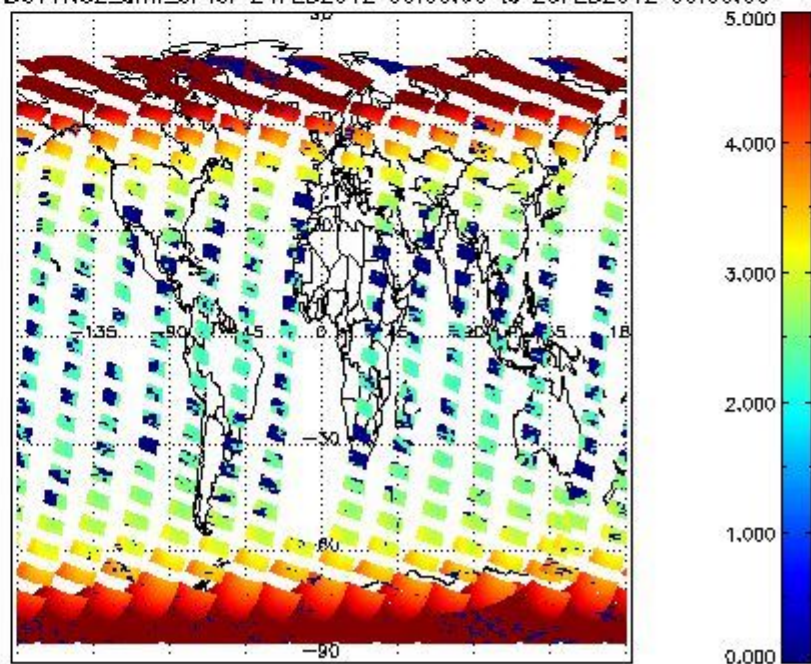
SCIOL2P_NADUV1N02_vcd_err for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



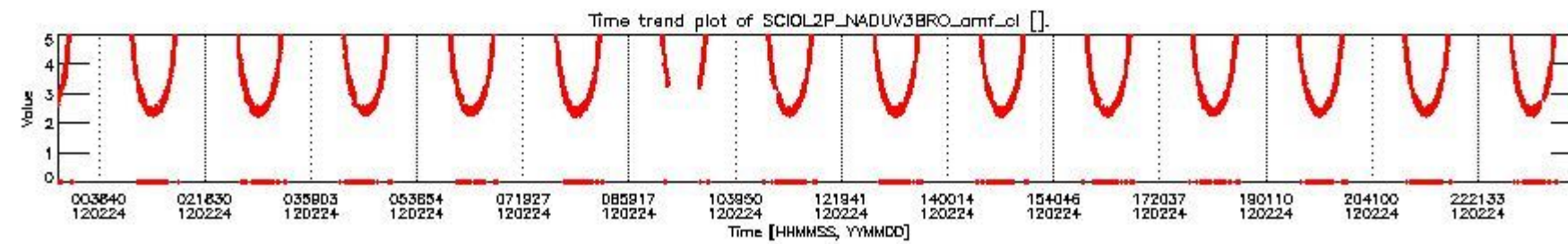
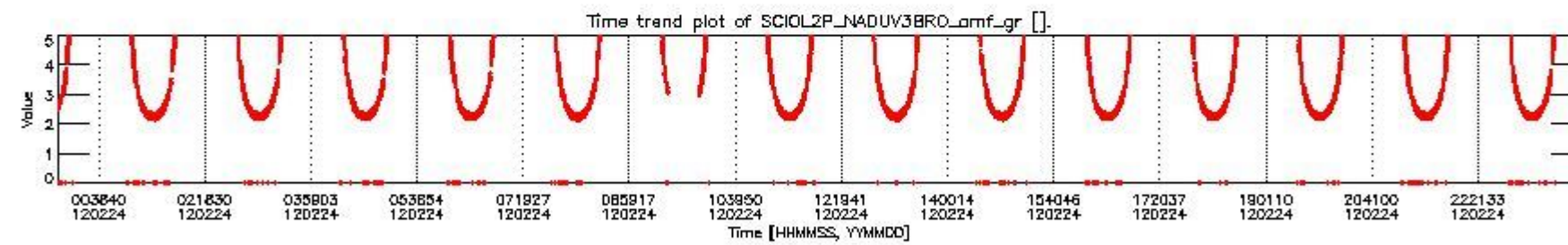
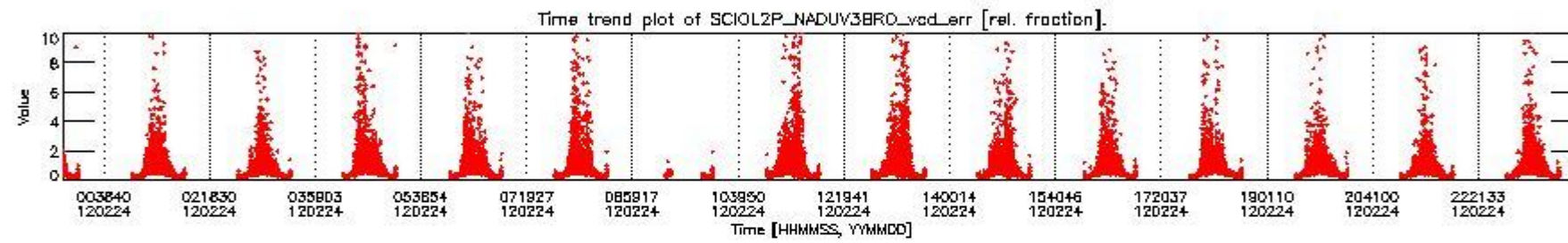
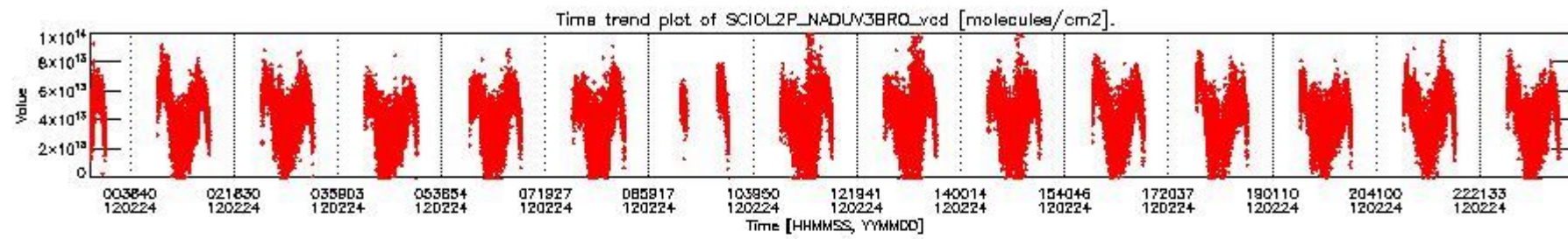
SCIOL2P_NADUV1N02_amf_gr for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



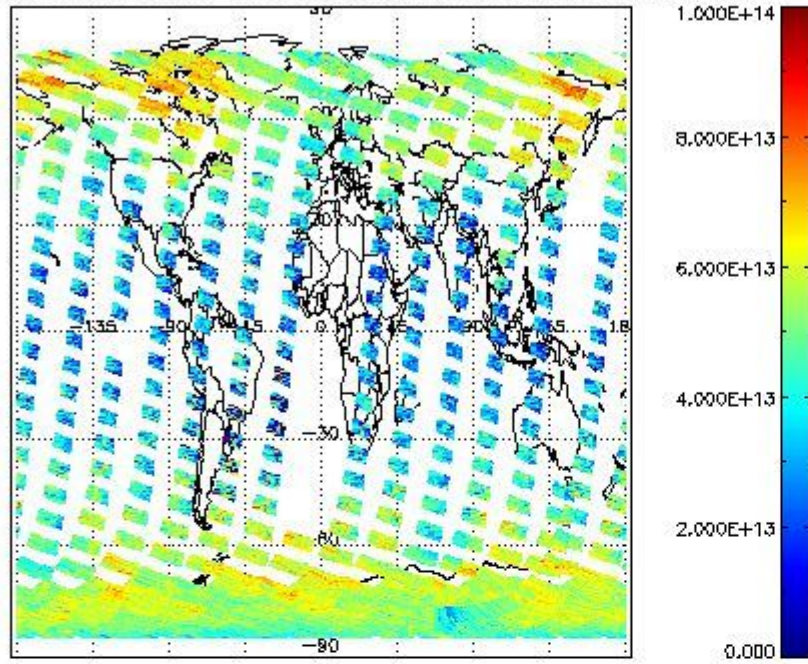
SCIOL2P_NADUV1N02_amf_cl for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



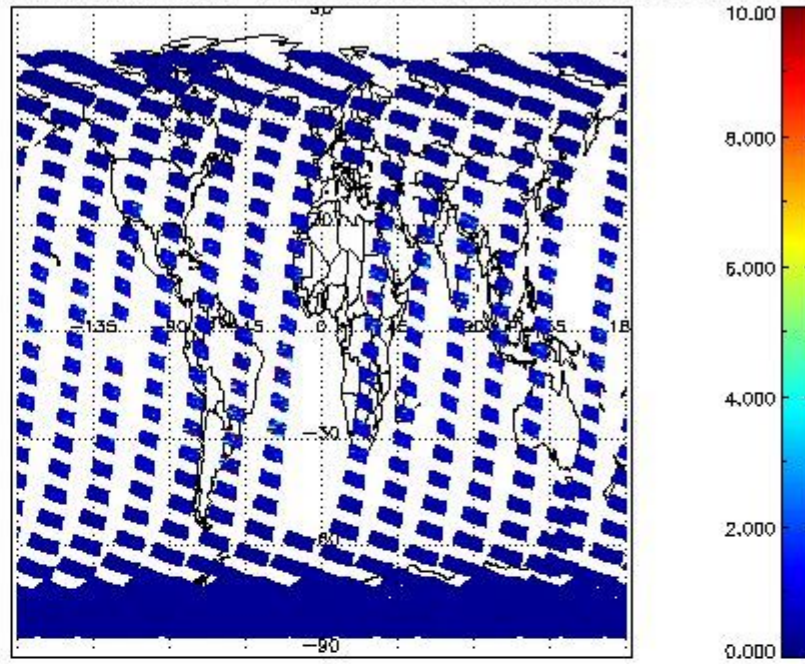
2.2.2.3 BrO (UV3)



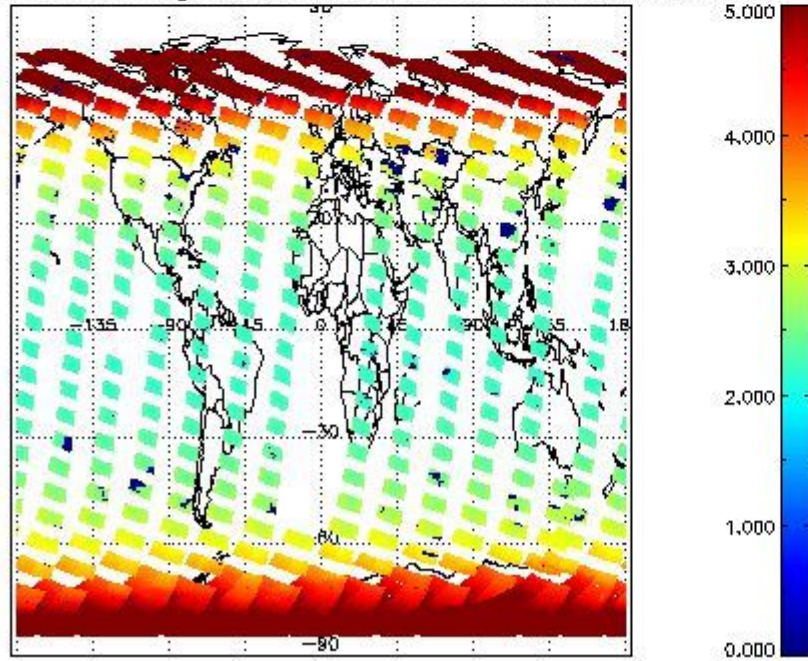
SCIOL2P_NADUV3BRO_vcd for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



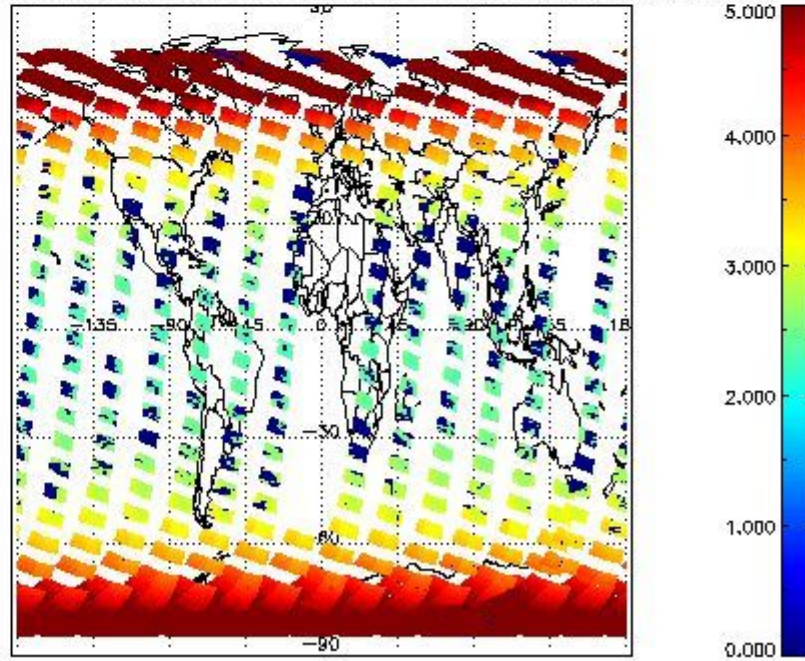
SCIOL2P_NADUV3BRO_vcd_err for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



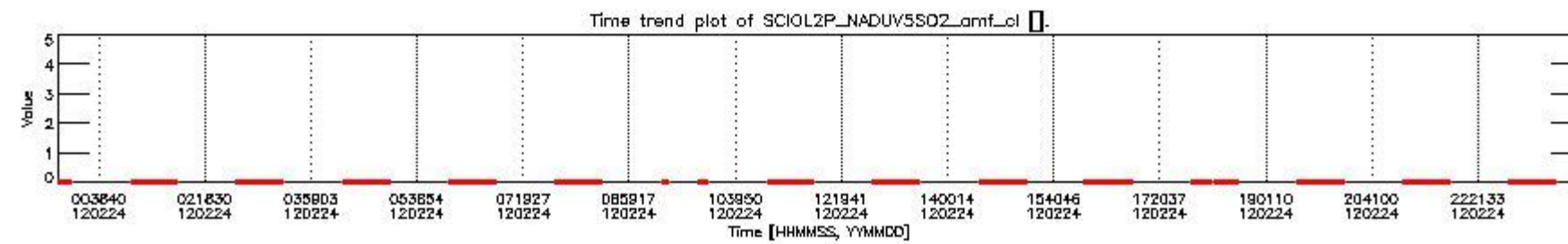
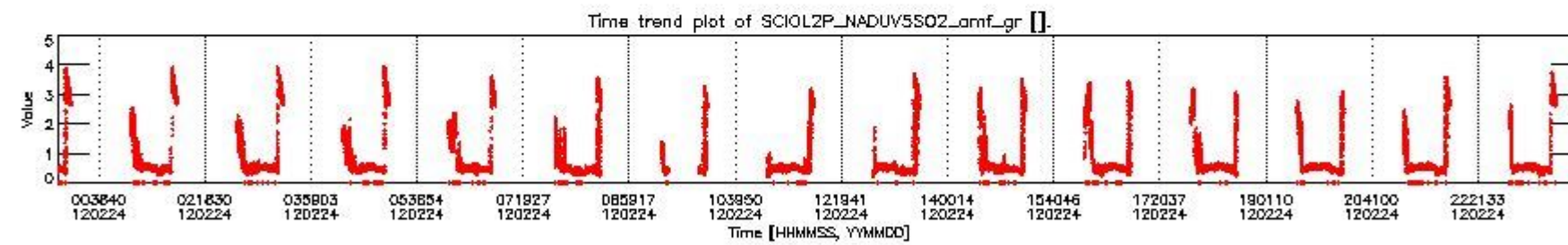
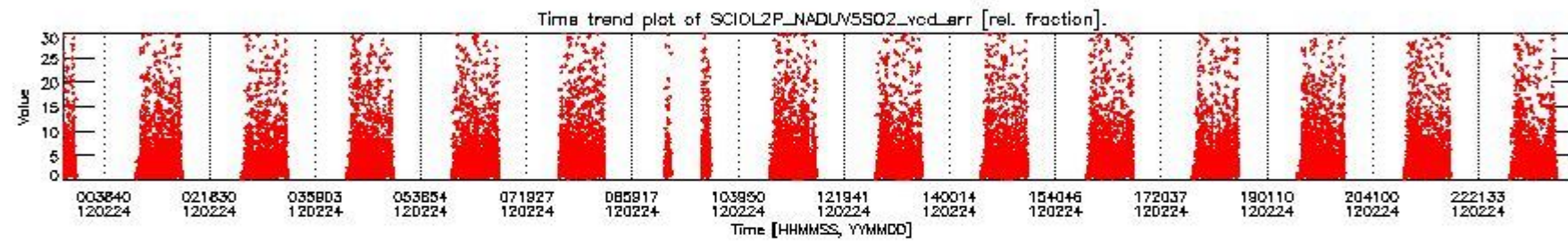
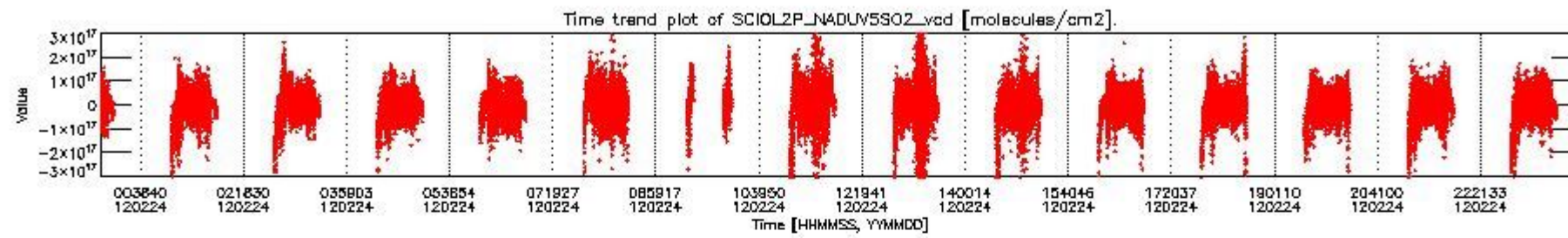
SCIOL2P_NADUV3BRO_amf_gr for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



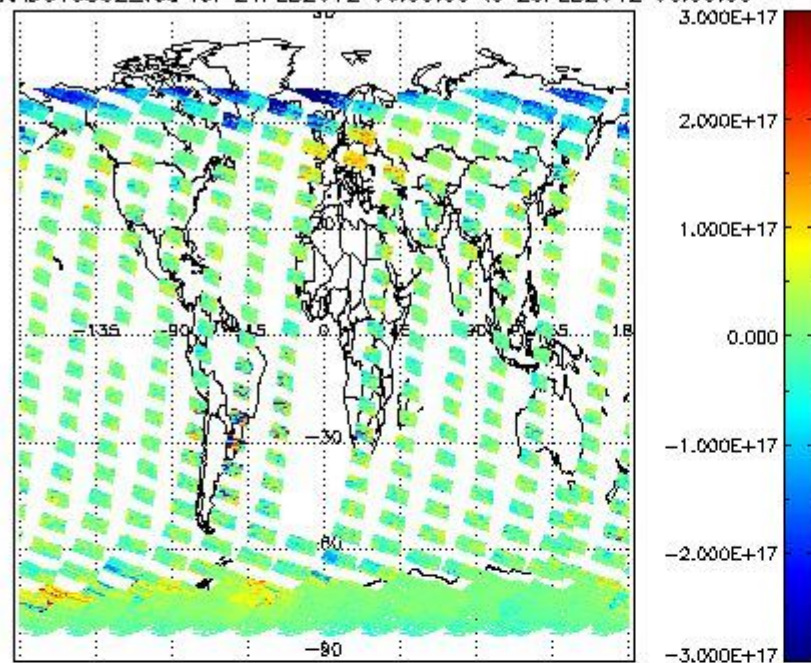
SCIOL2P_NADUV3BRO_amf_cl for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



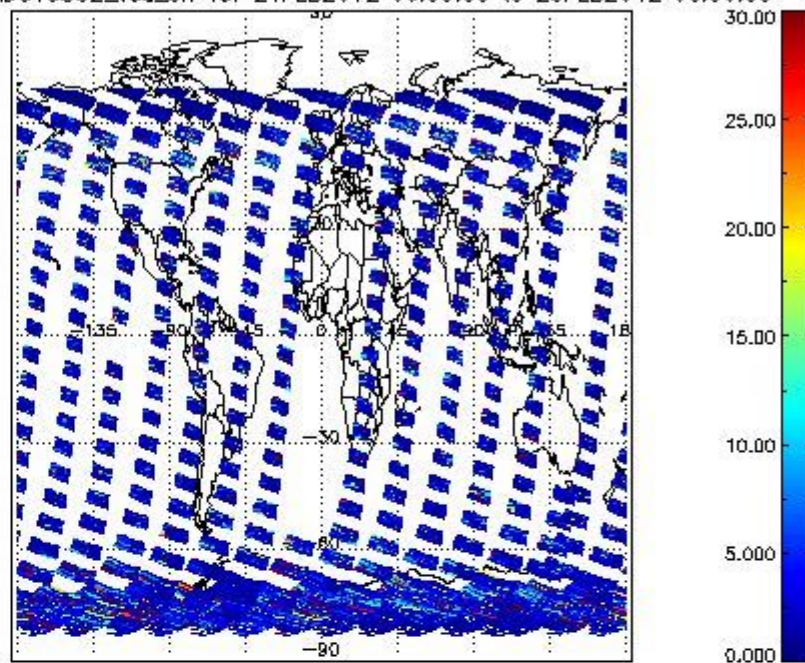
2.2.2.4 SO2 (UV5)



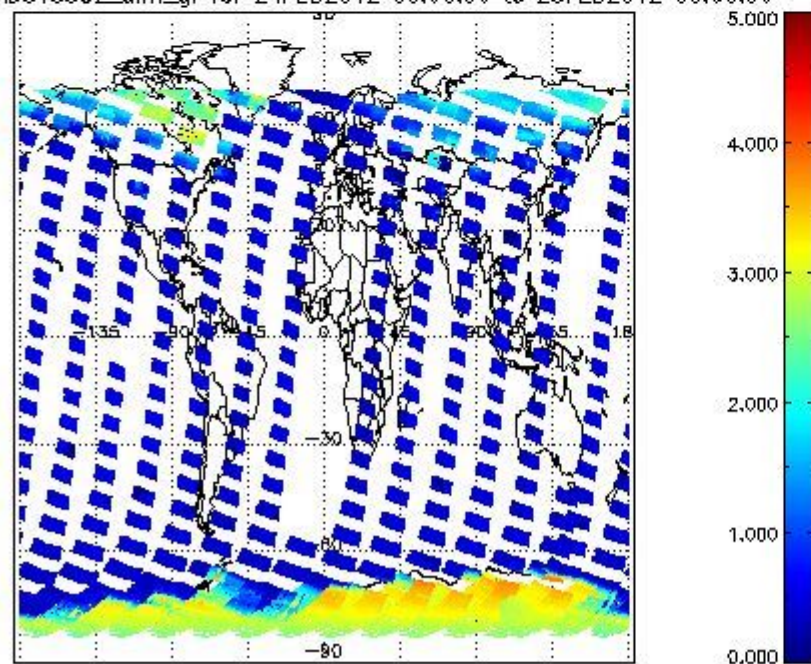
SCIOL2P_NADUV5S02_vcd for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



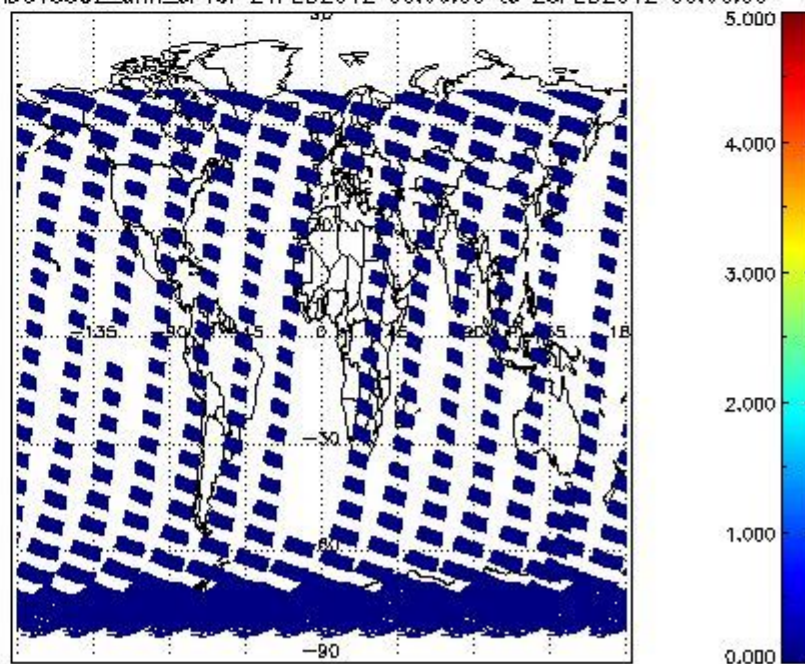
SCIOL2P_NADUV5S02_vcd_err for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



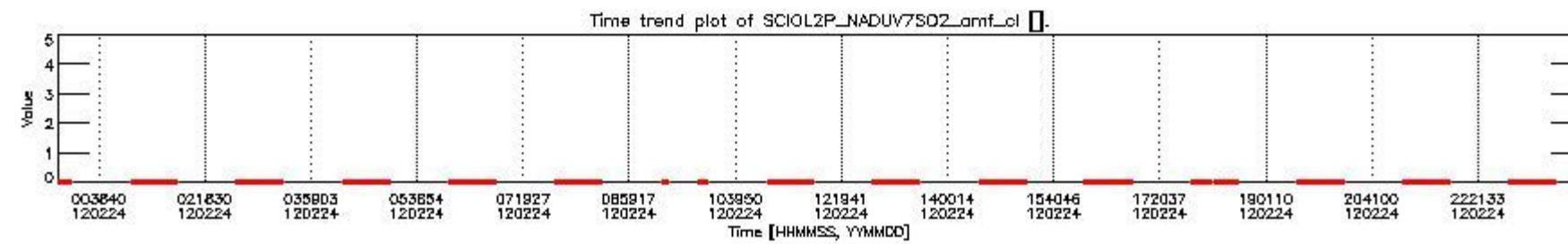
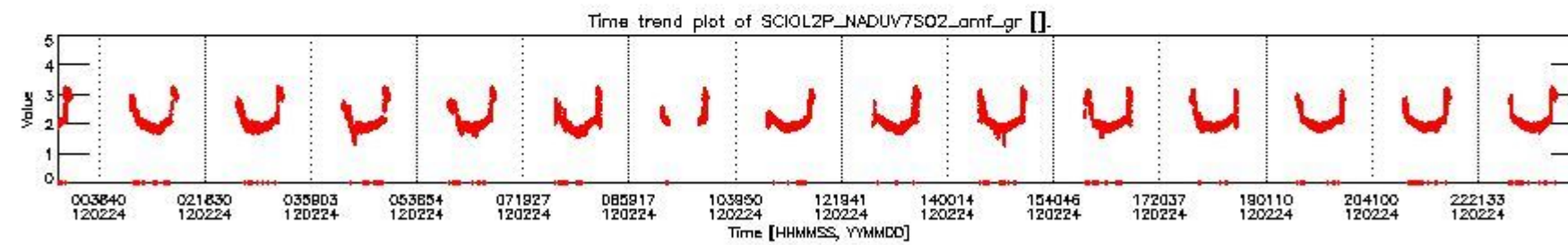
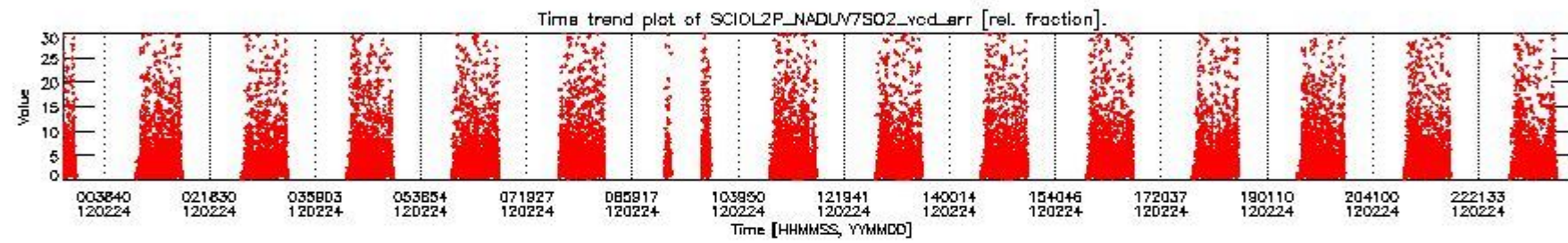
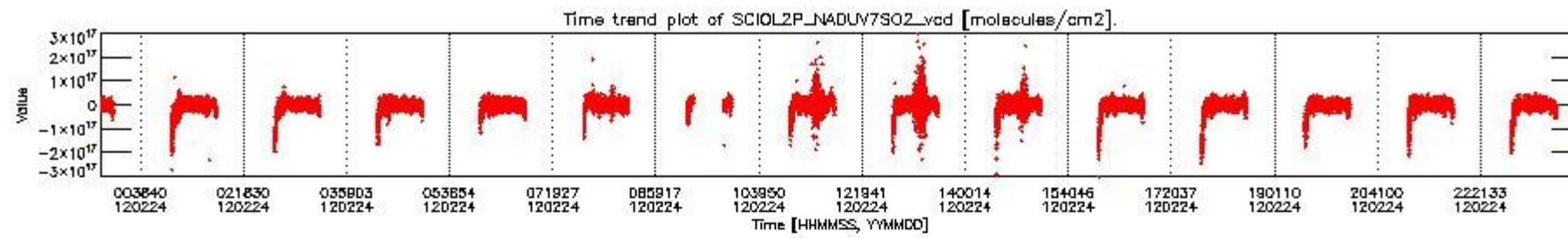
SCIOL2P_NADUV5S02_amf_gr for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



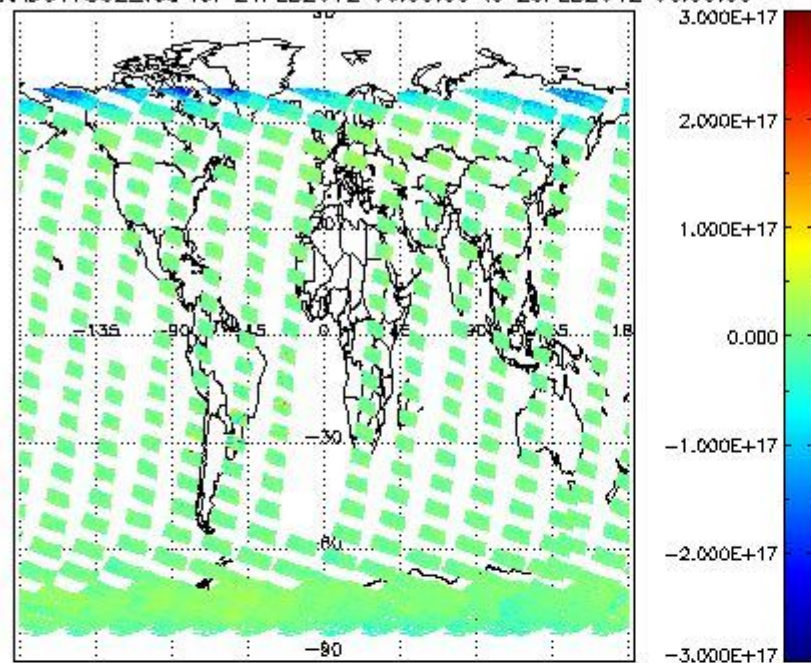
SCIOL2P_NADUV5S02_amf_cl for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



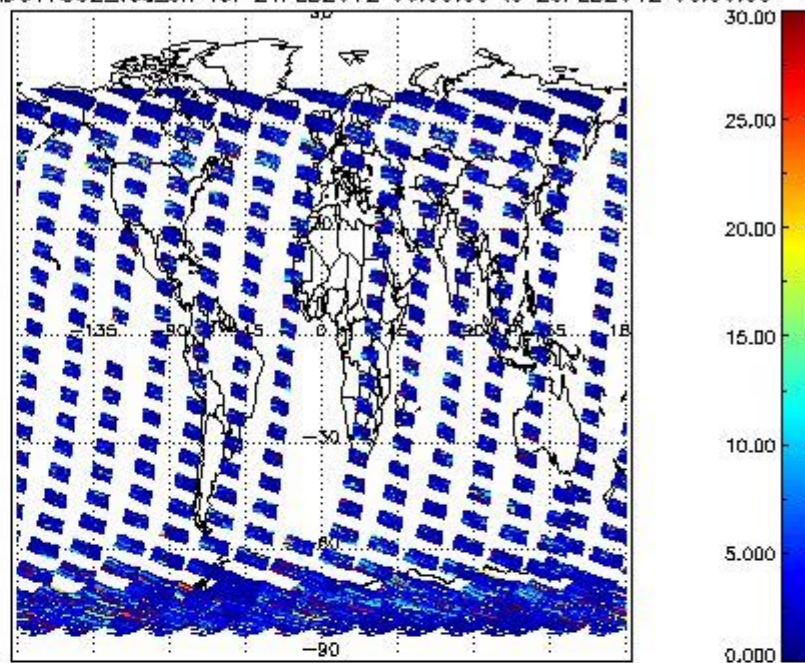
2.2.2.5 SO2 (UV7)



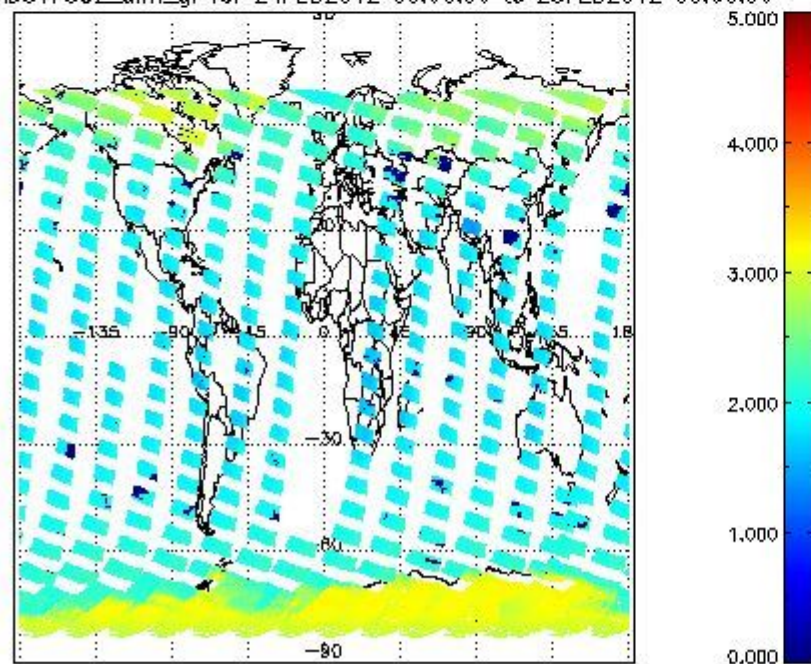
SCIOL2P_NADUV7S02_vcd for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



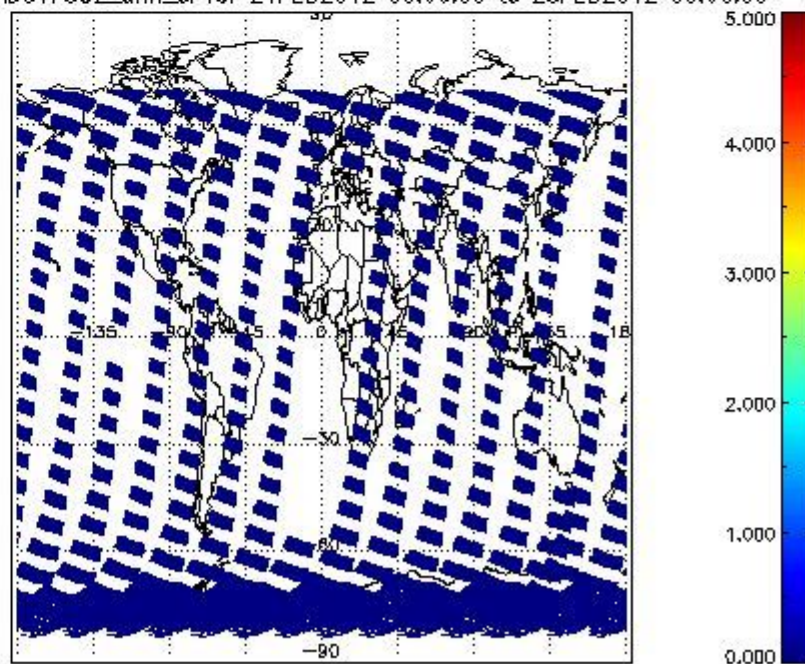
SCIOL2P_NADUV7S02_vcd_err for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



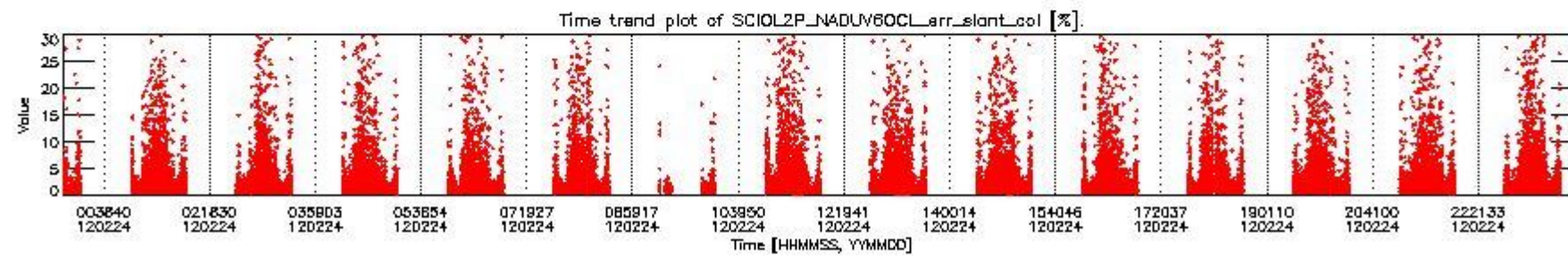
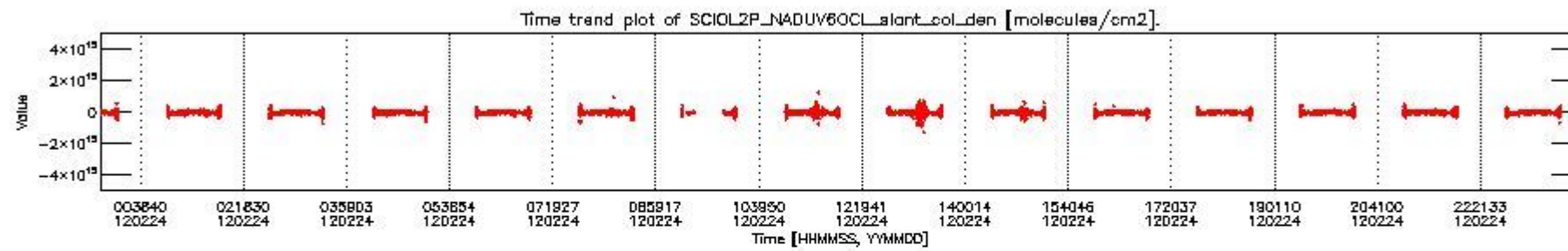
SCIOL2P_NADUV7S02_amf_gr for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



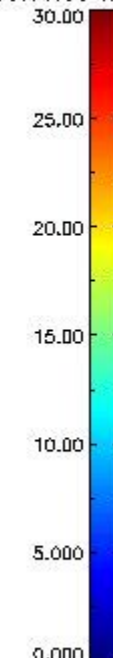
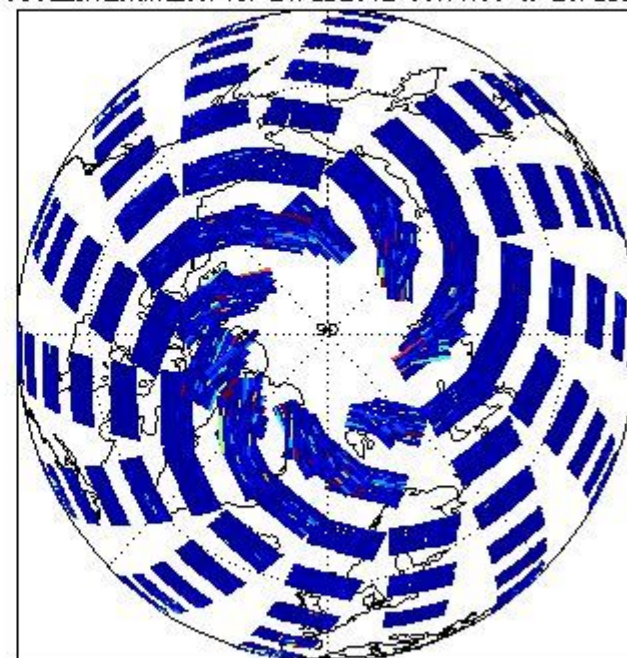
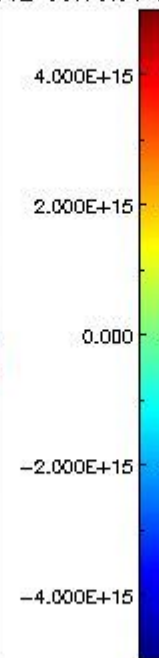
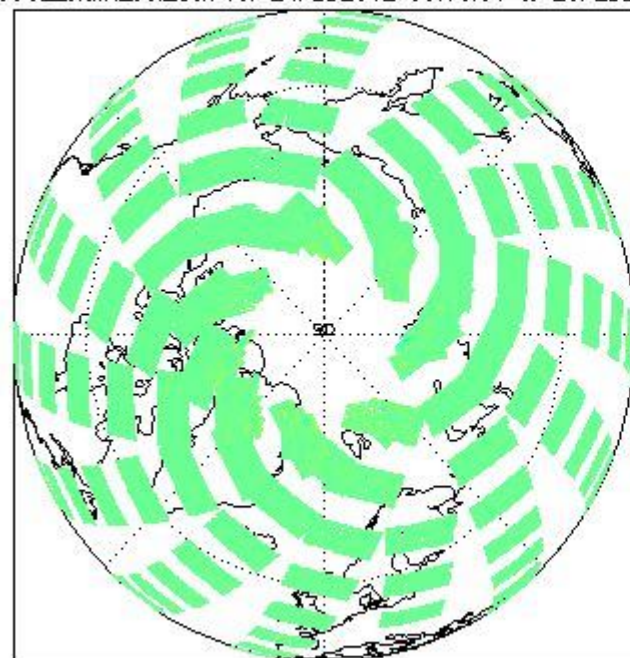
SCIOL2P_NADUV7S02_amf_cl for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



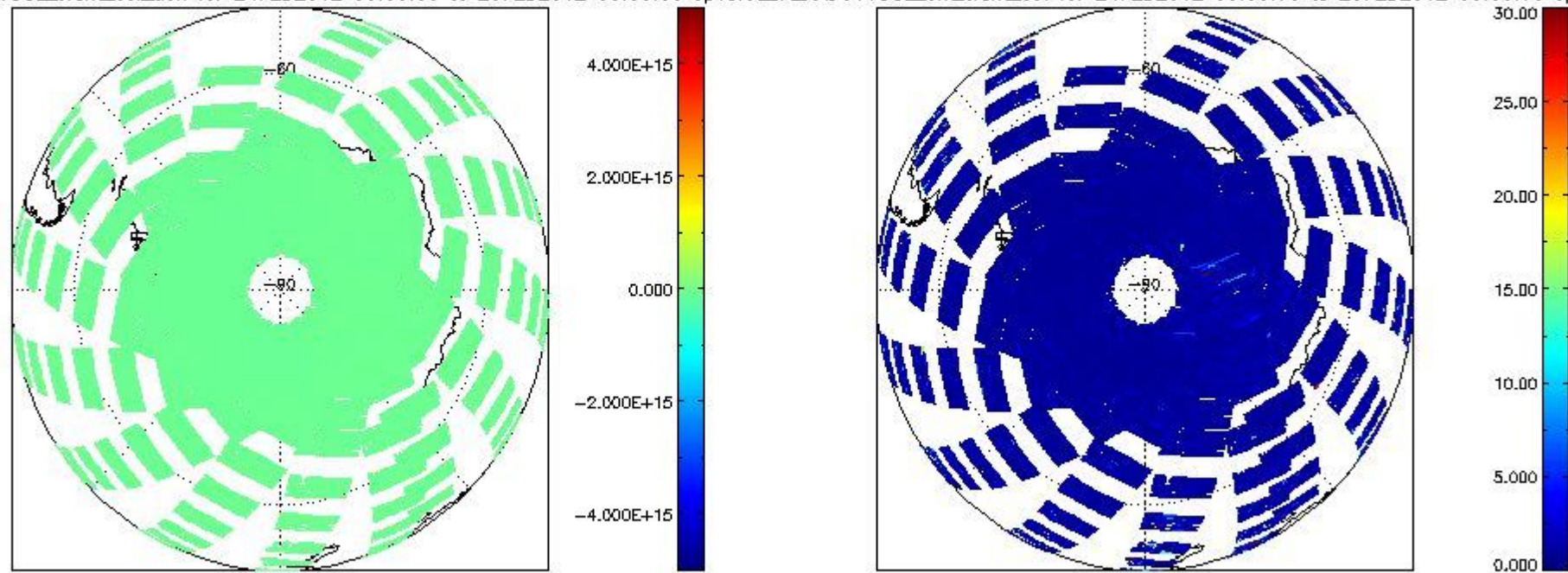
2.2.2.6 OCIO (UV6)



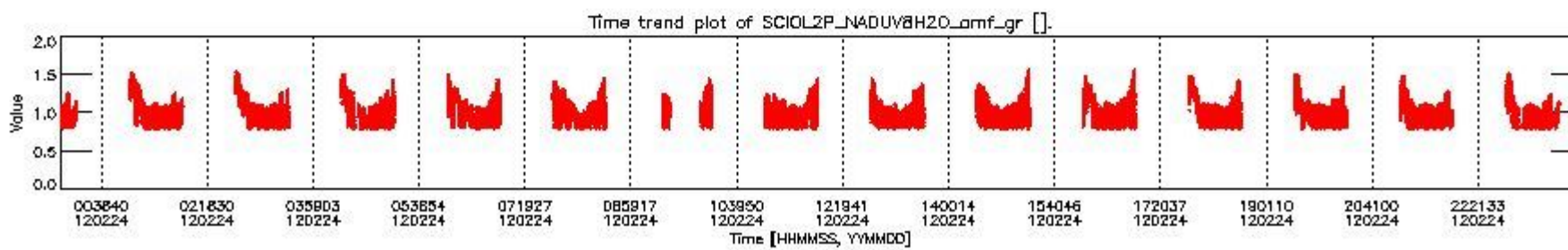
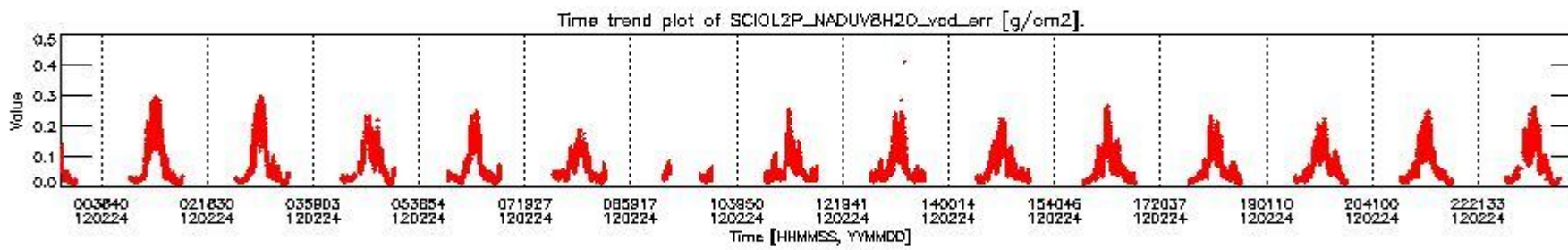
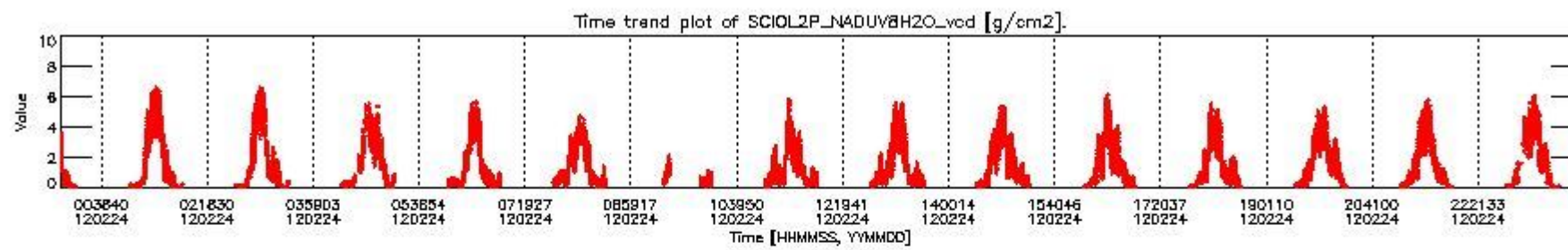
CIOL2P_NADUV6OCL_slant_col_den for 24FEB2012 00:00:00 to 25FEB2012 00:00:00 np; CIOL2P_NADUV6OCL_err_slant_col for 24FEB2012 00:00:00 to 25FEB2012 00:00:00 np



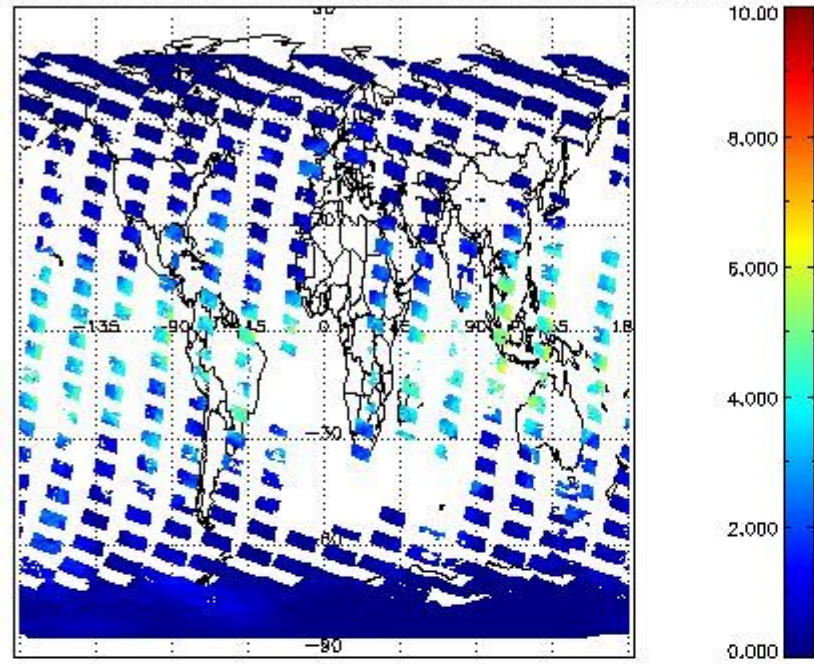
CIOL2P_NADUV60CL_slant_col_den for 24FEB2012 00:00:00 to 25FEB2012 00:00:00 sp;CIOL2P_NADUV60CL_err_slant_col for 24FEB2012 00:00:00 to 25FEB2012 00:00:00 sp



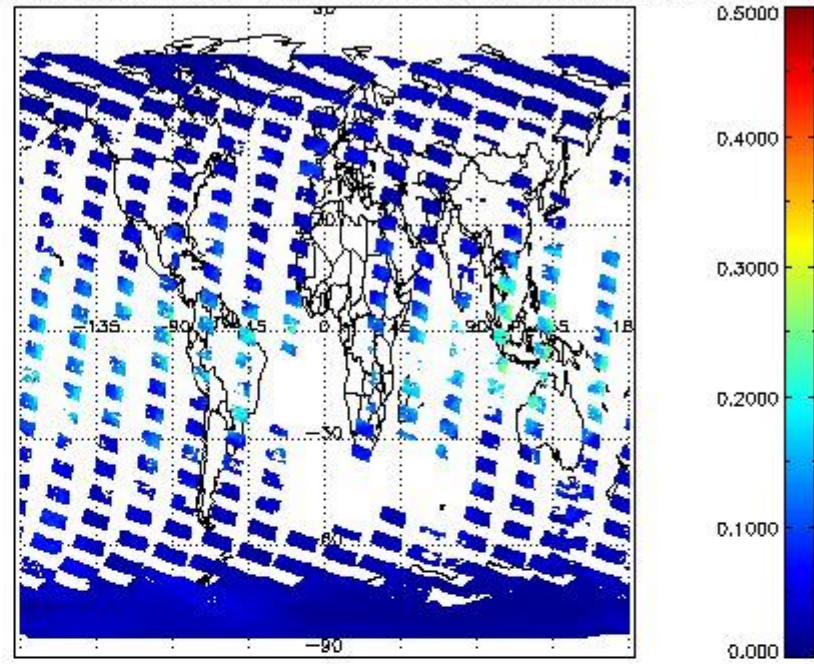
2.2.2.7 H2O (UV8)



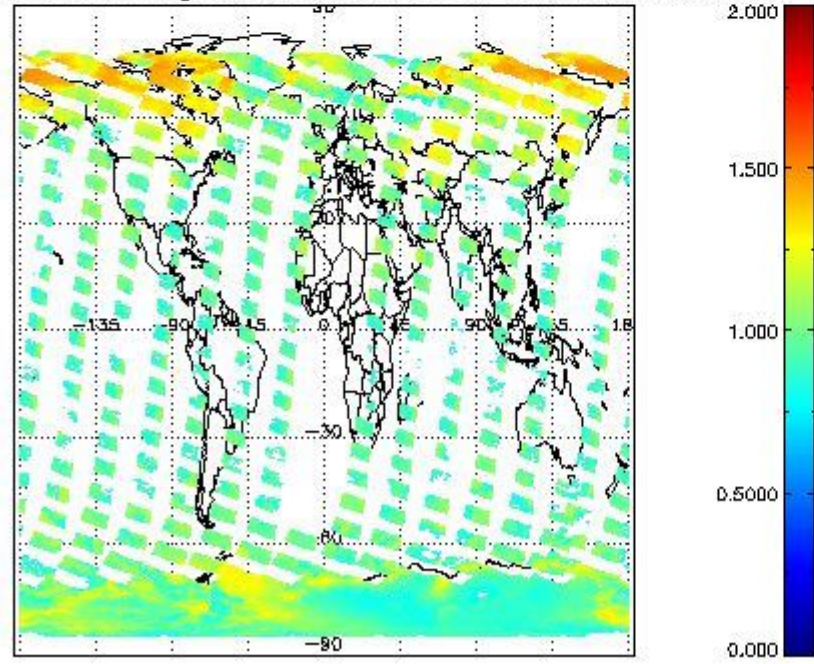
SCIOL2P_NADUV8H2O_vcd for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



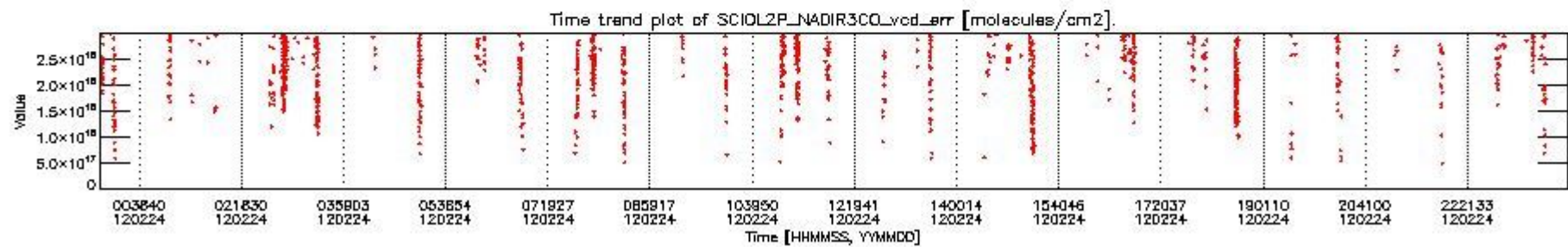
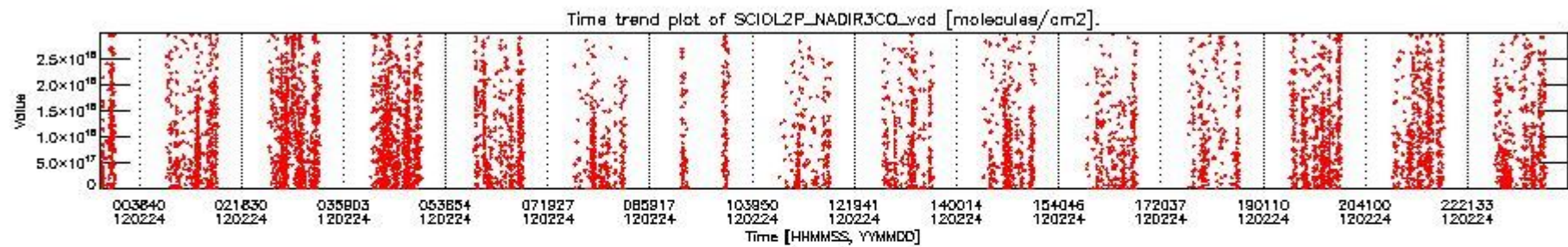
SCIOL2P_NADUV8H2O_vcd_err for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



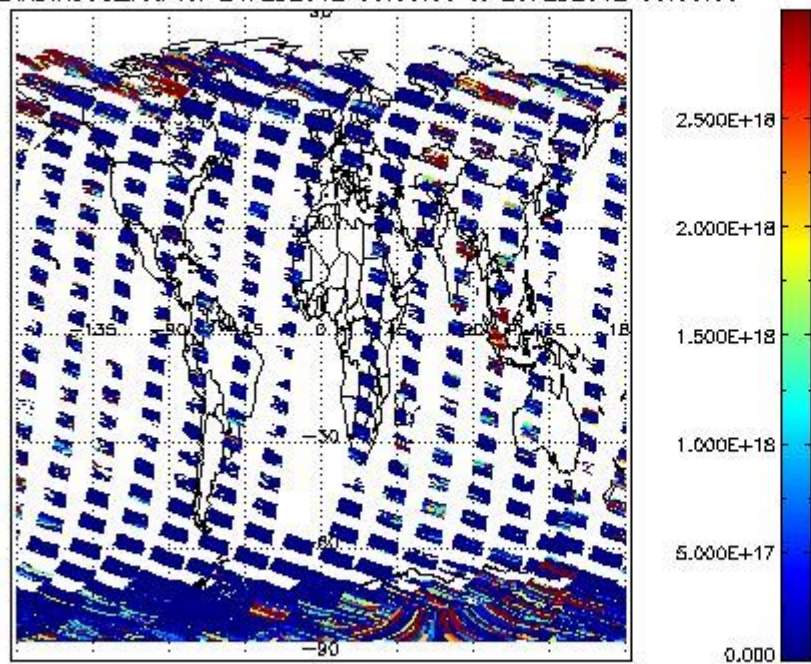
SCIOL2P_NADUV8H2O_amf_gr for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



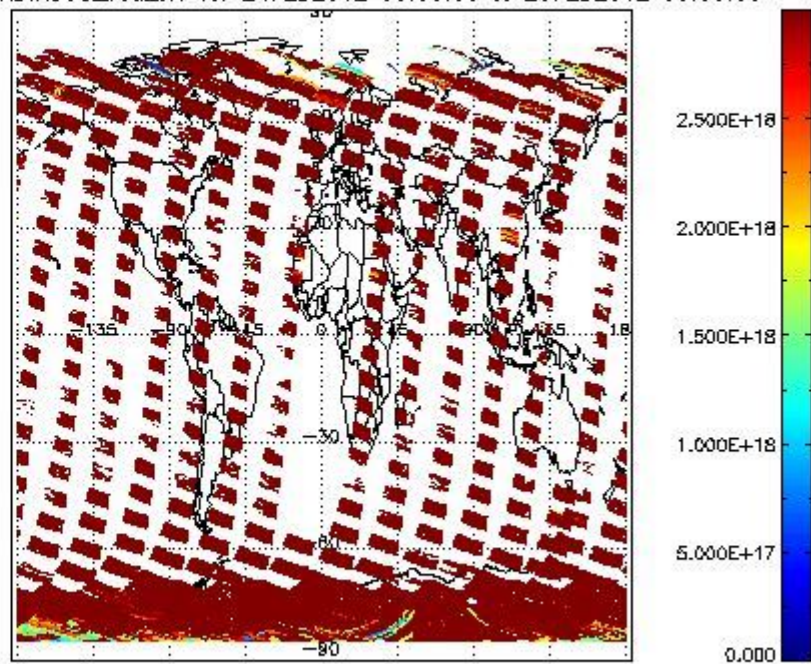
2.2.2.8 CO (IR3)



SCIO2P_NADIR3CO_vcd for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



SCIO2P_NADIR3CO_vcd_err for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



2.2.3 Limb

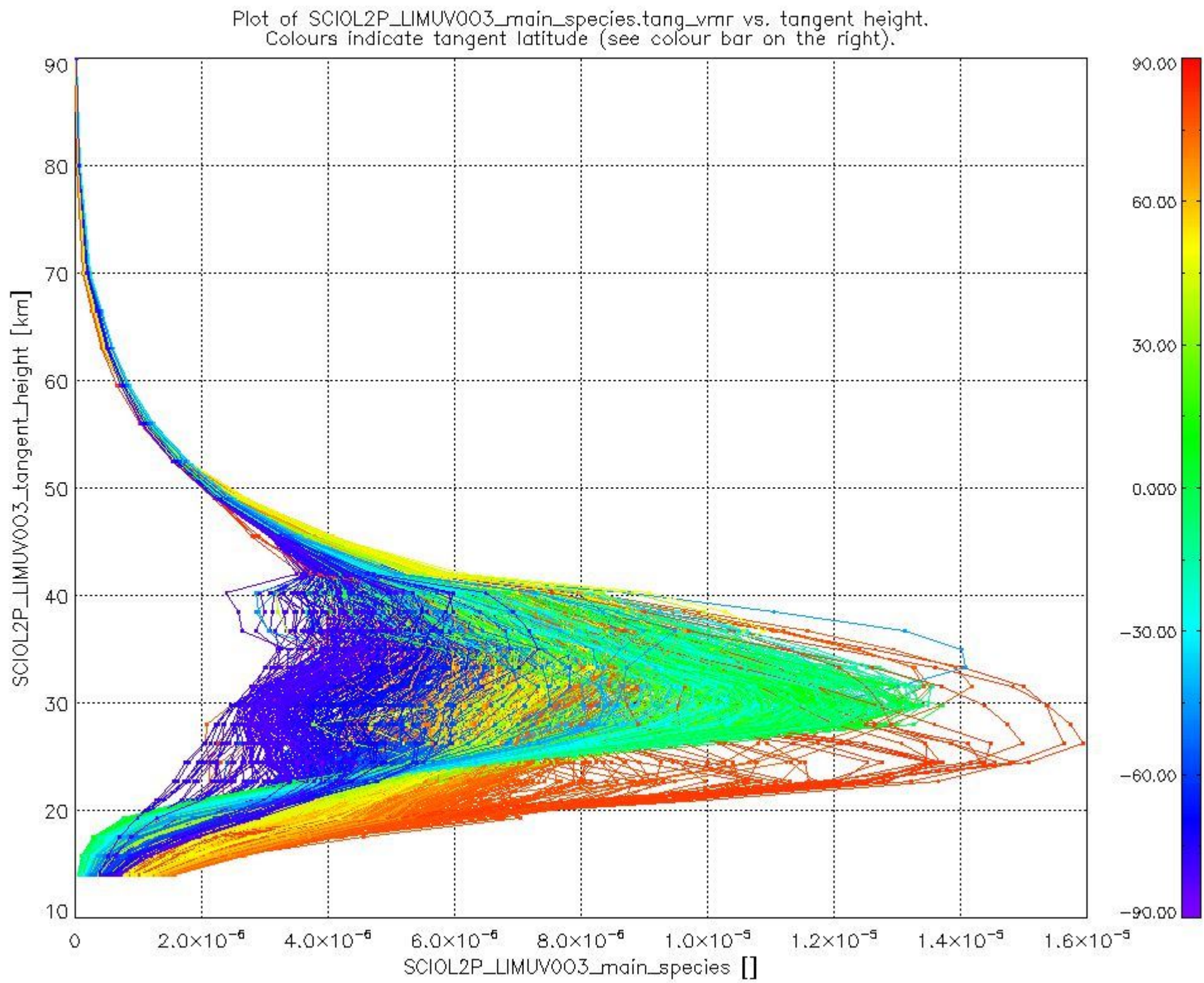
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

The following data items are currently included into this section:

Number	Data item ID
0	SCIO2P_LIMUV003_main_species
1	SCIO2P_LIMUV1NO2_main_species
2	SCIO2P_LIMUV3BRO_main_species

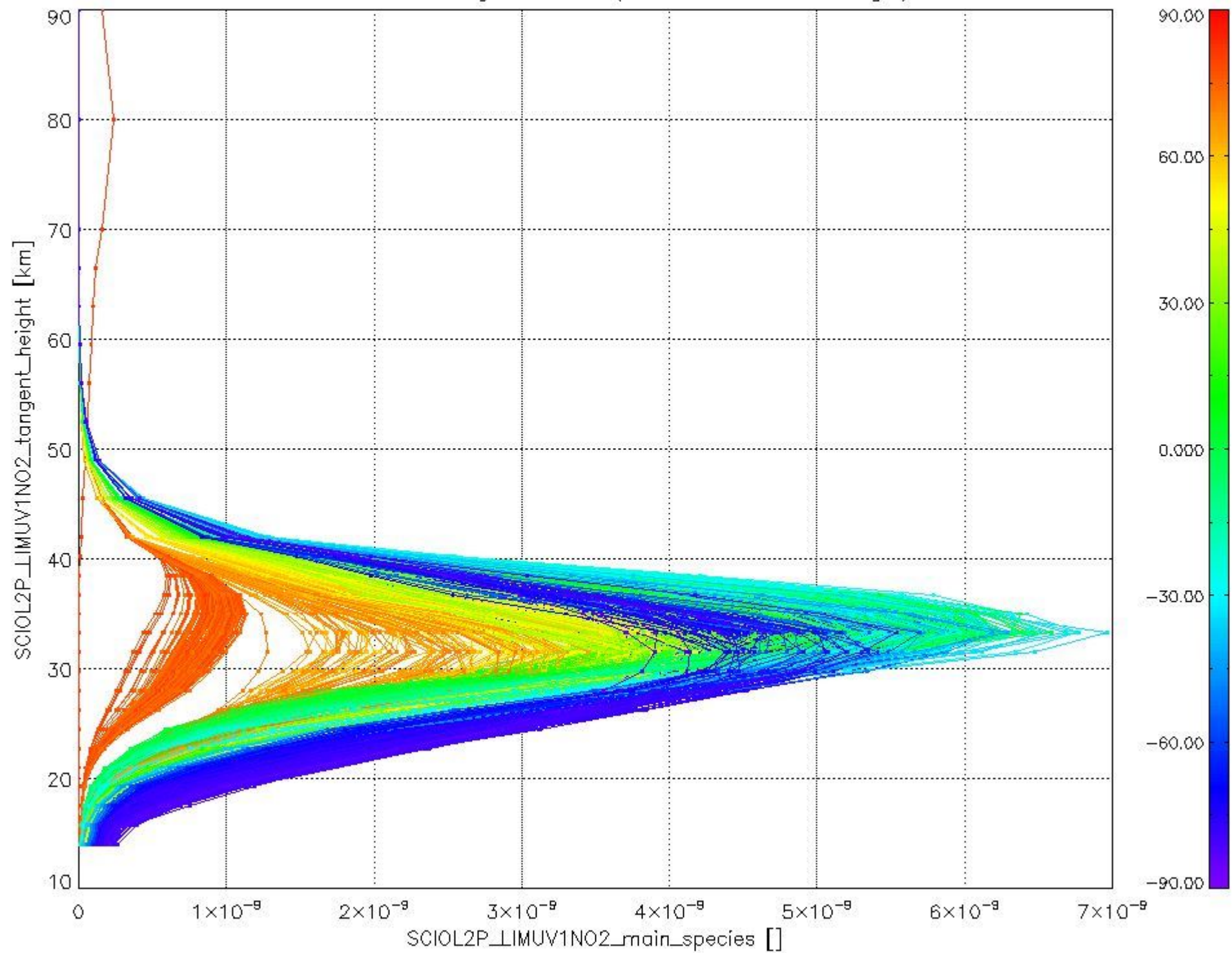
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



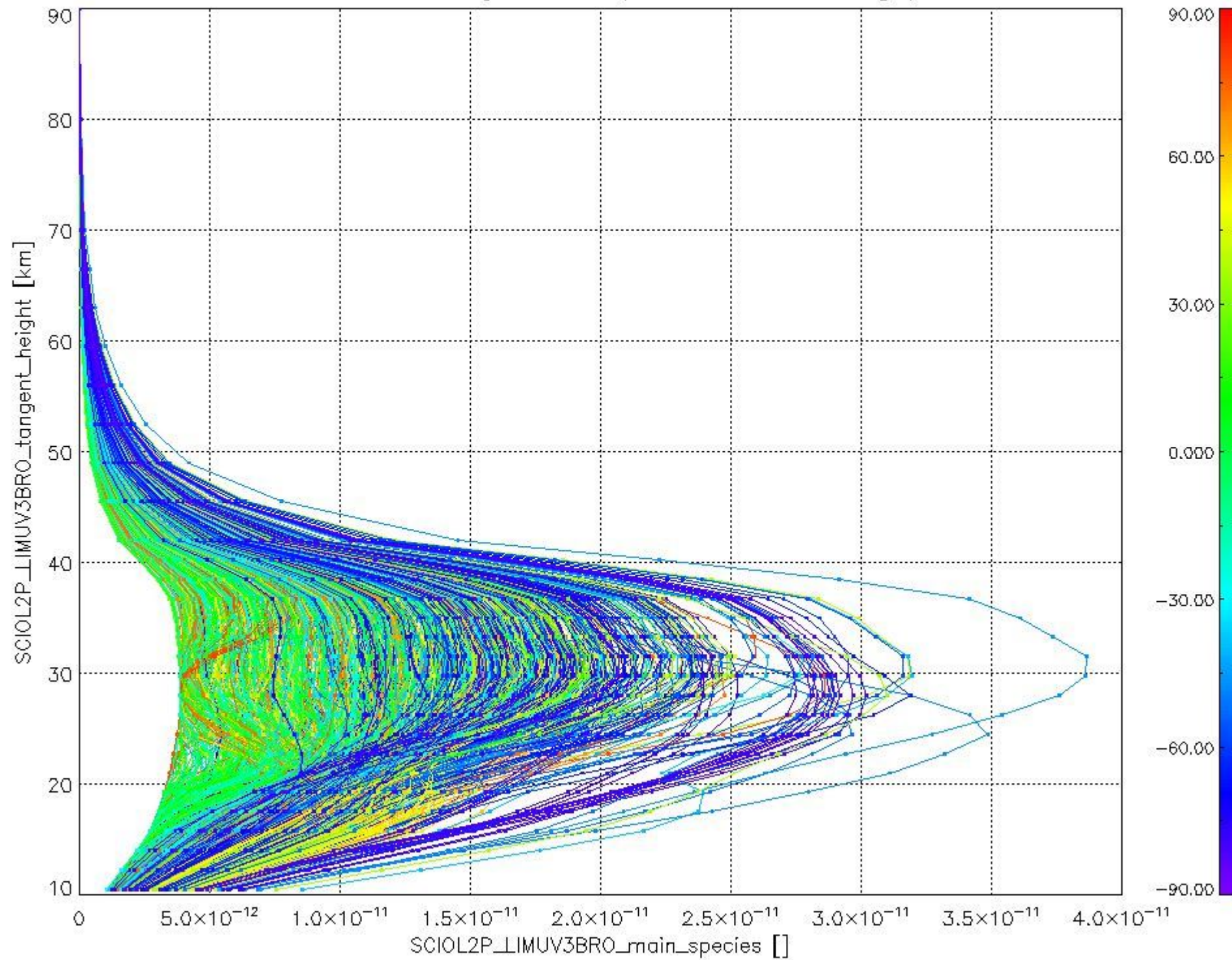
2.2.3.2 NO2 (UV1)

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)

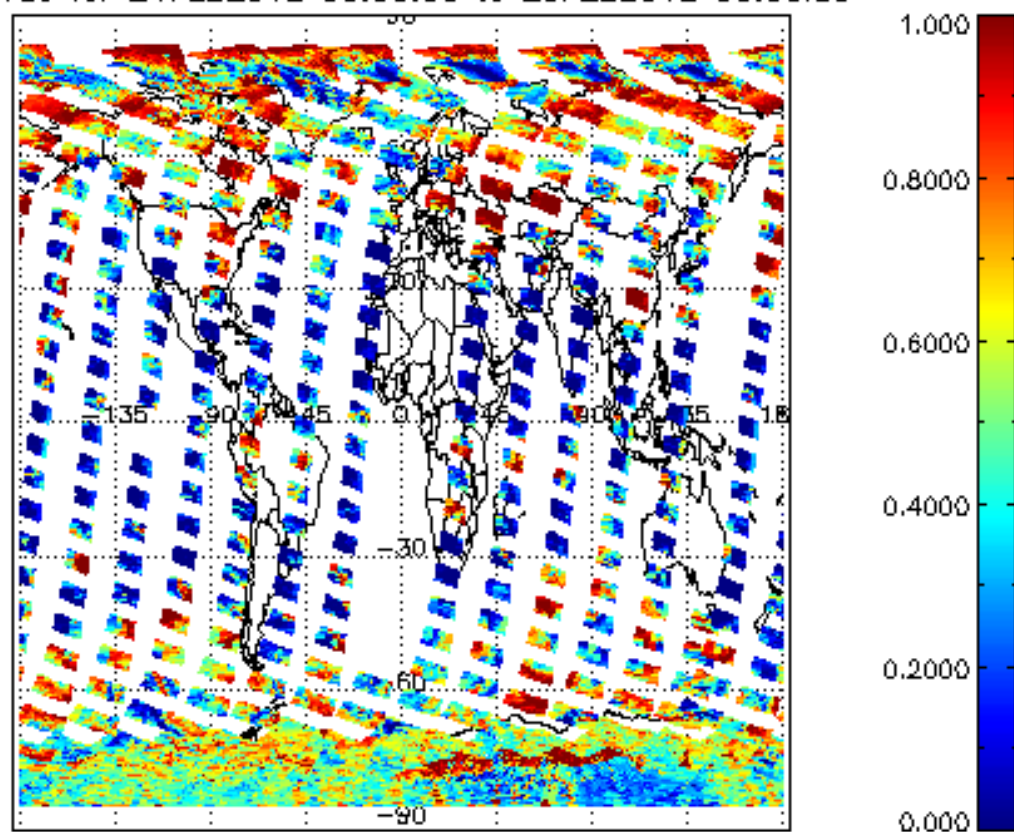
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



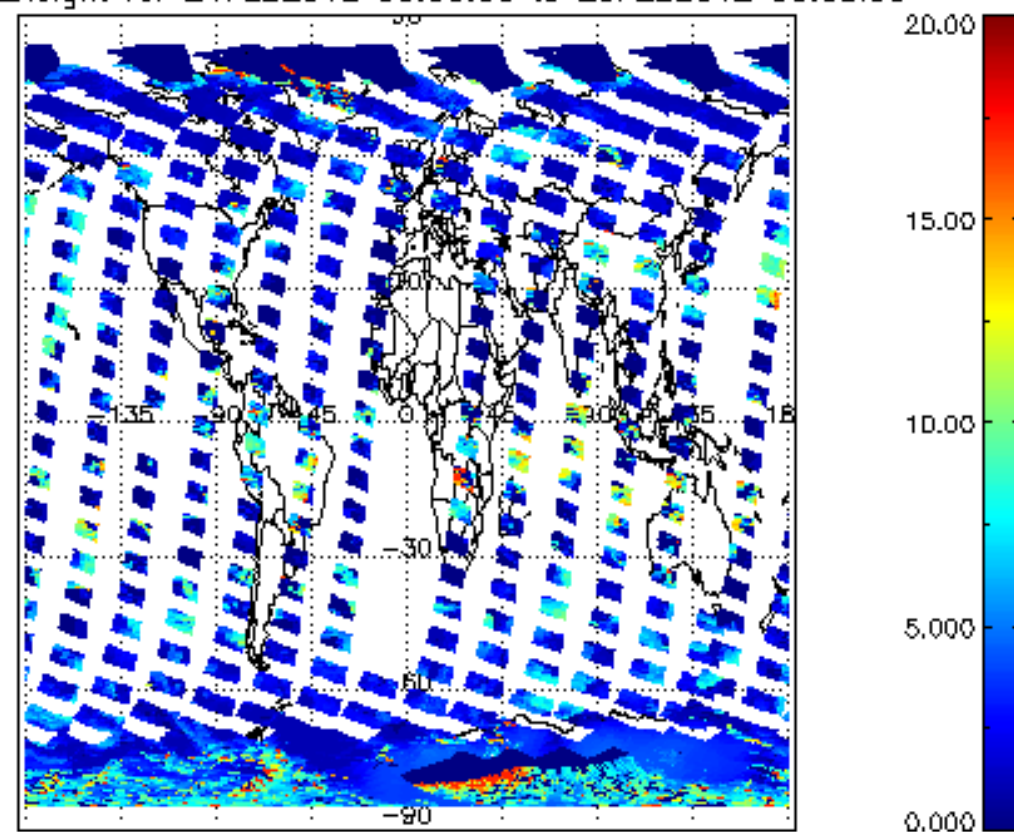
2.3 ADF monitoring

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_AXVIEC20120228_110035_20120223_191947_20120225_191947
3	SCI_MF1_AXVIEC20120228_110140_20120224_184301_20120226_184301

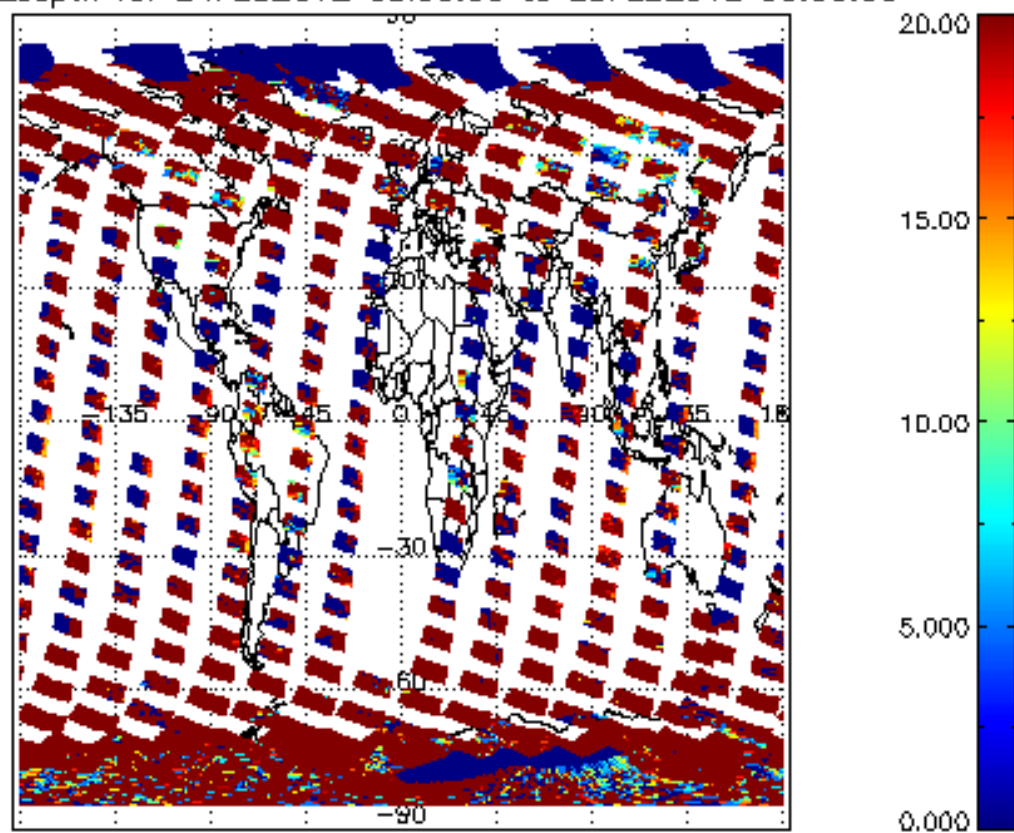
cl_frac for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



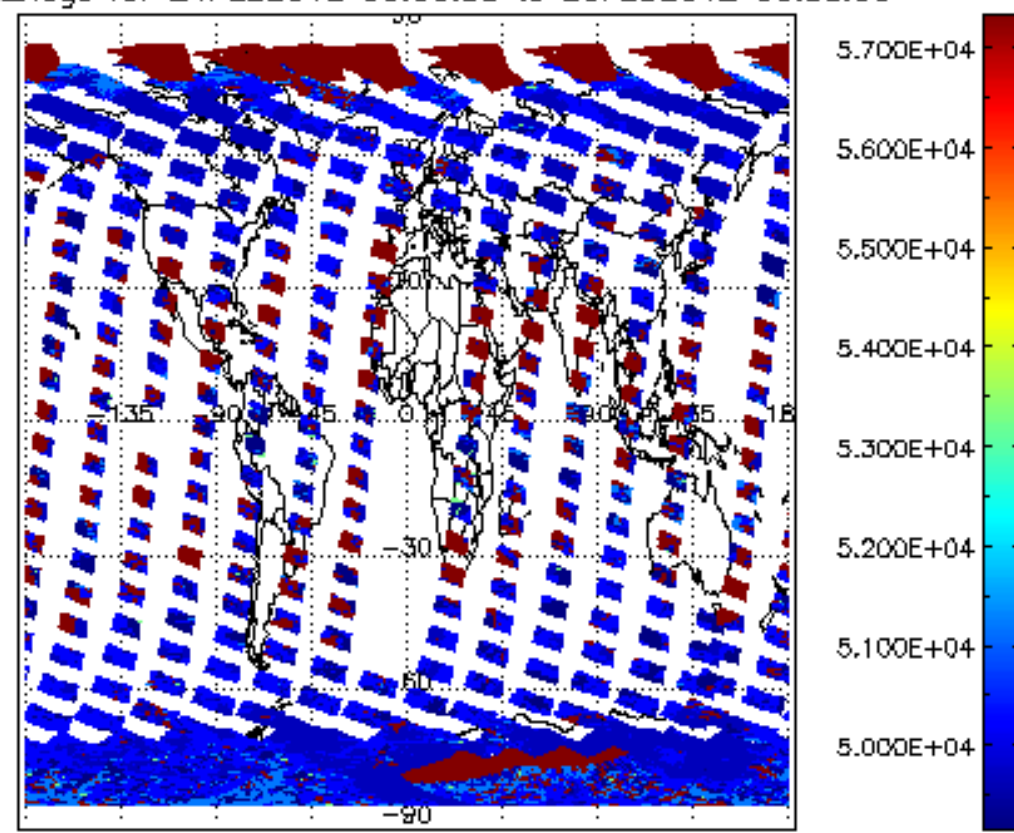
cl_top_height for 24FEB2012 00:00:00 to 25FEB2012 00:00:00

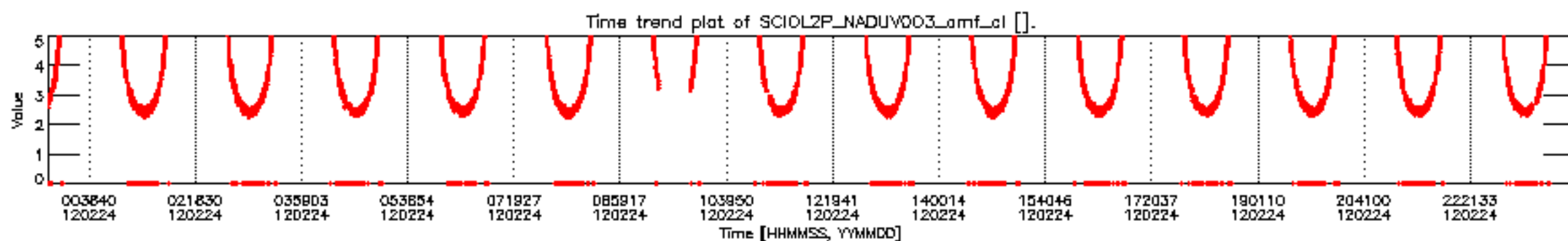
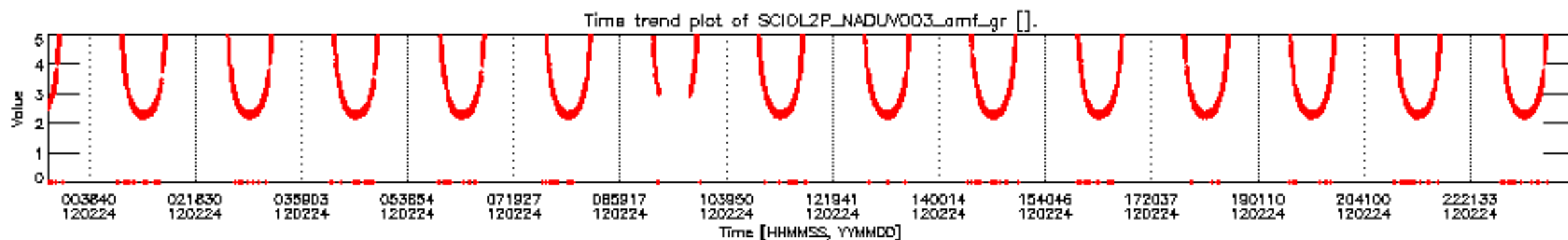
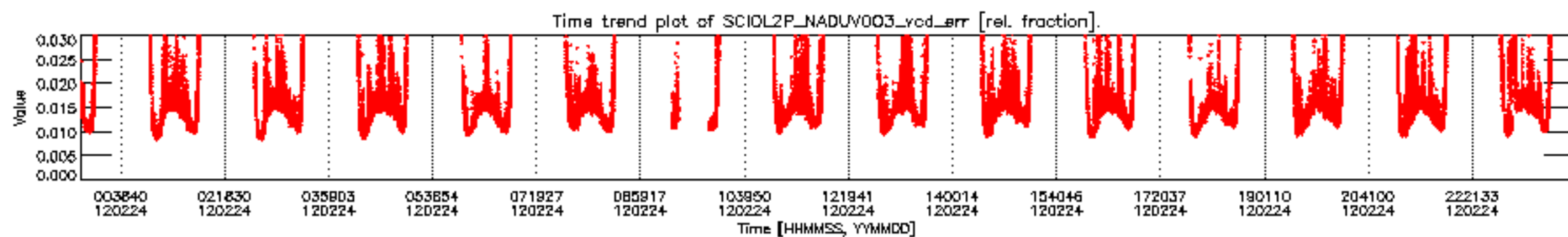
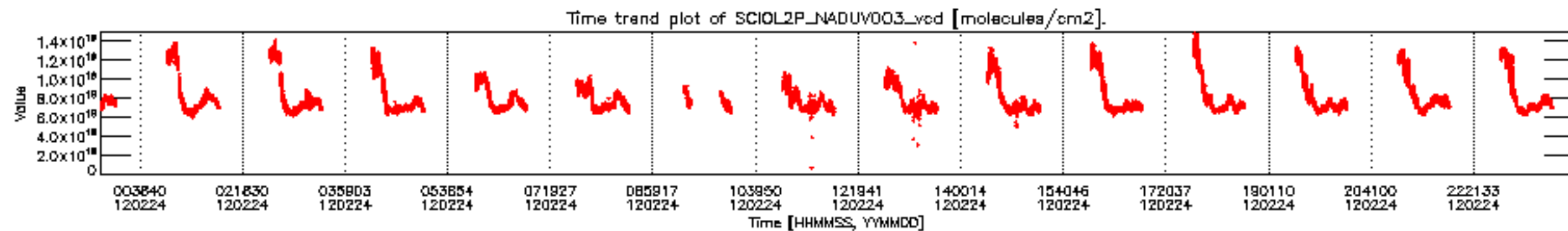


cl_opt_depth for 24FEB2012 00:00:00 to 25FEB2012 00:00:00

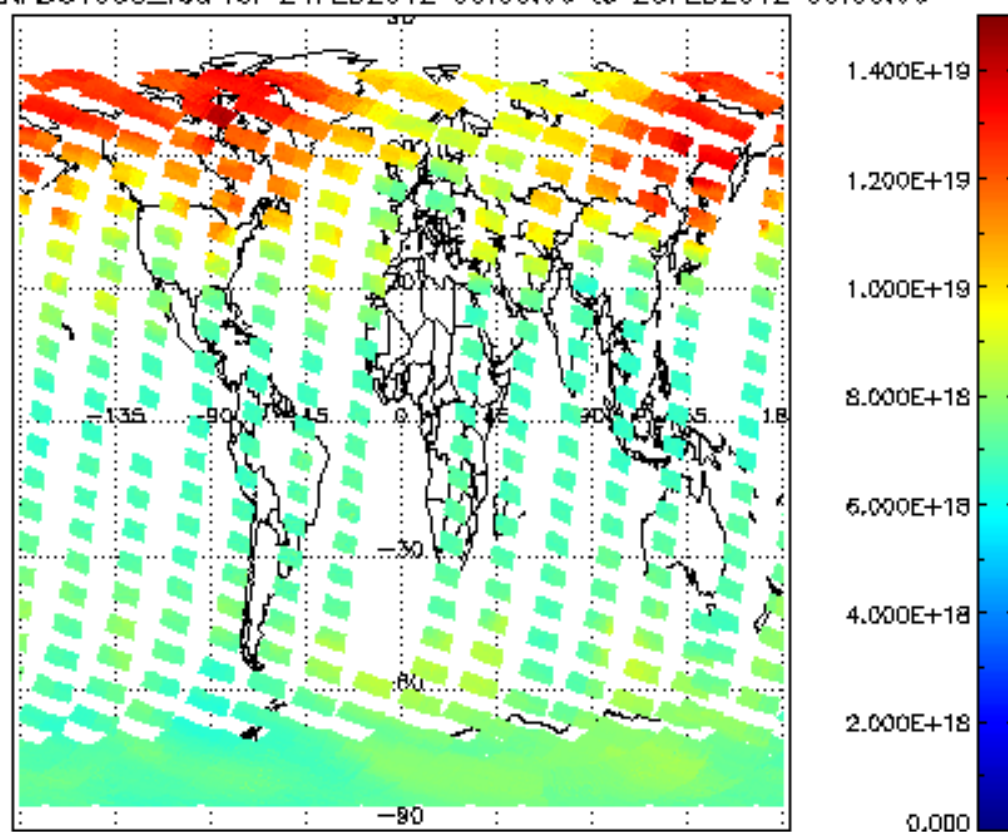


cloud_flags for 24FEB2012 00:00:00 to 25FEB2012 00:00:00

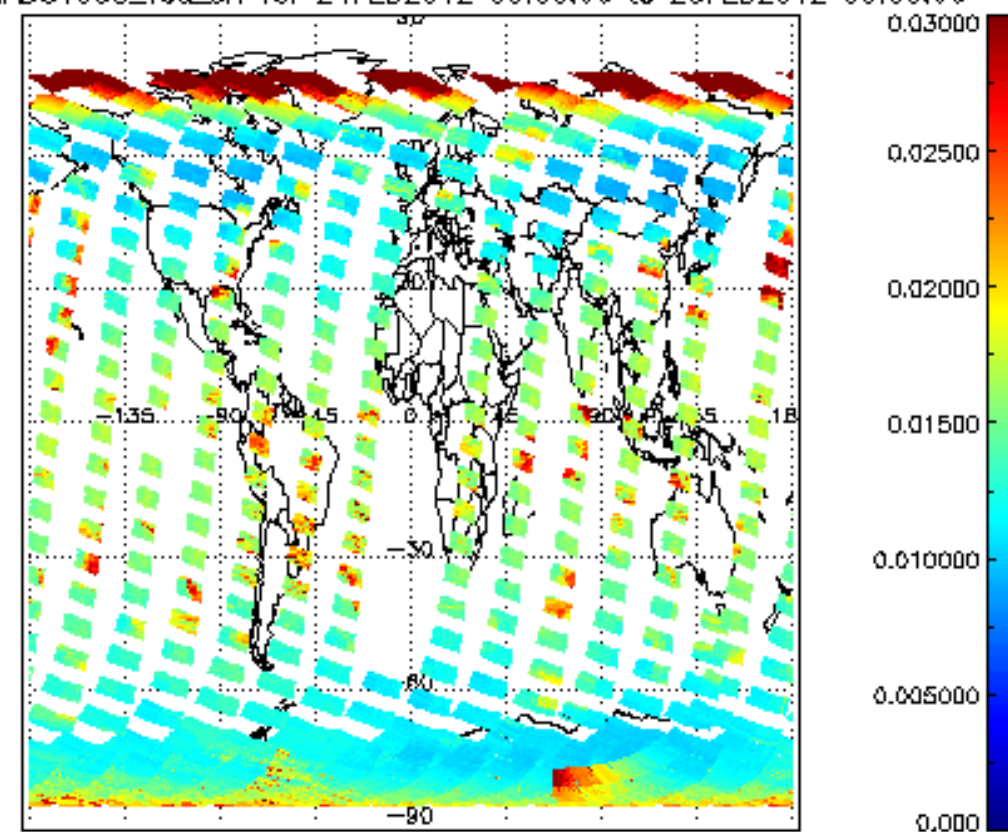




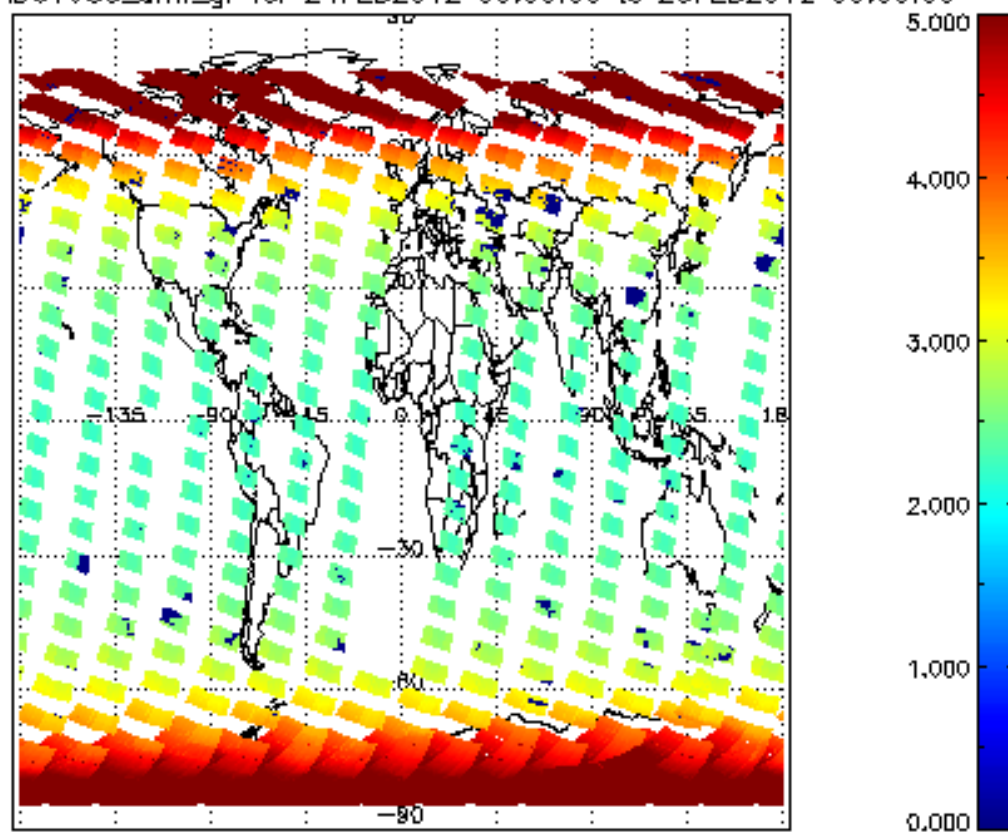
SCIOL2P_NADUV003_vcd for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



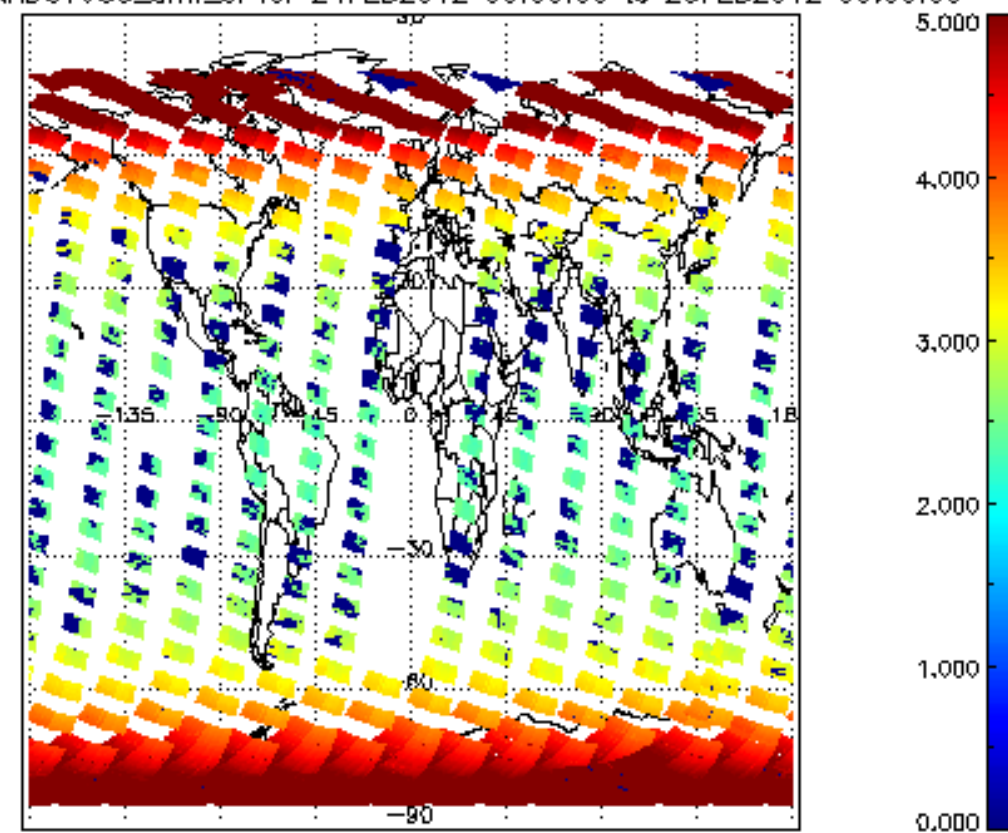
SCIOL2P_NADUV003_vcd_err for 24FEB2012 00:00:00 to 25FEB2012 00:00:00

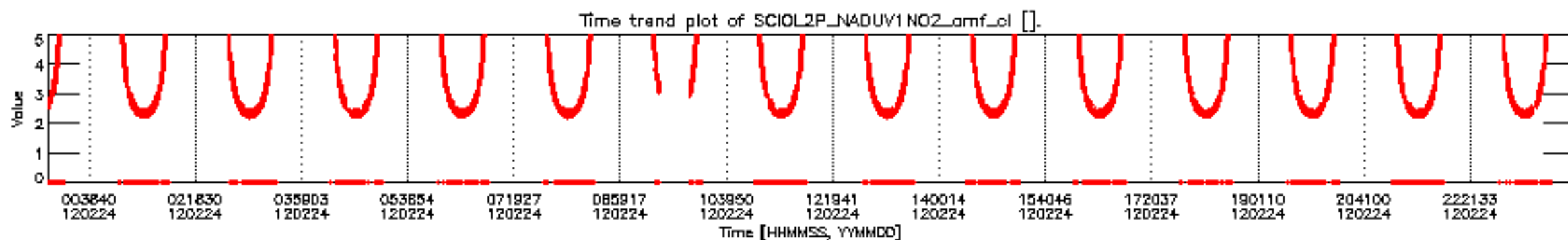
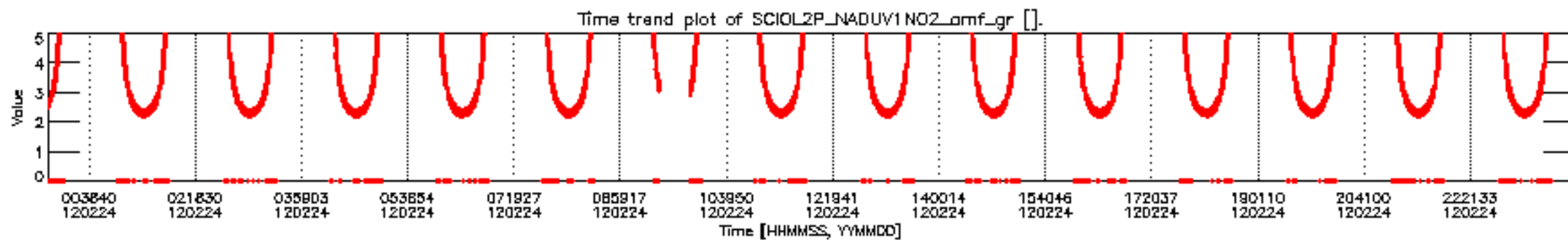
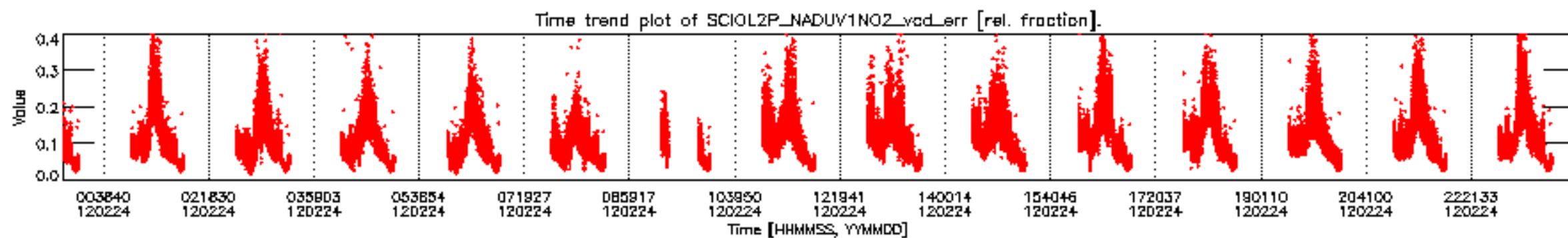
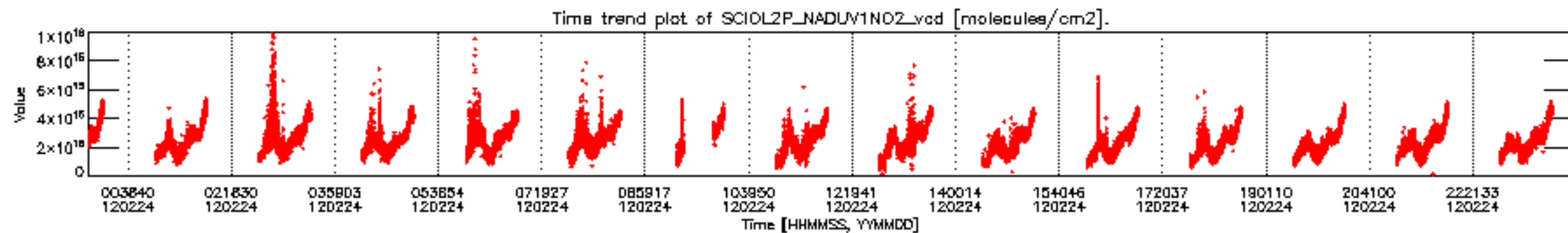


SCIOL2P_NADUV003_amf_gr for 24FEB2012 00:00:00 to 25FEB2012 00:00:00

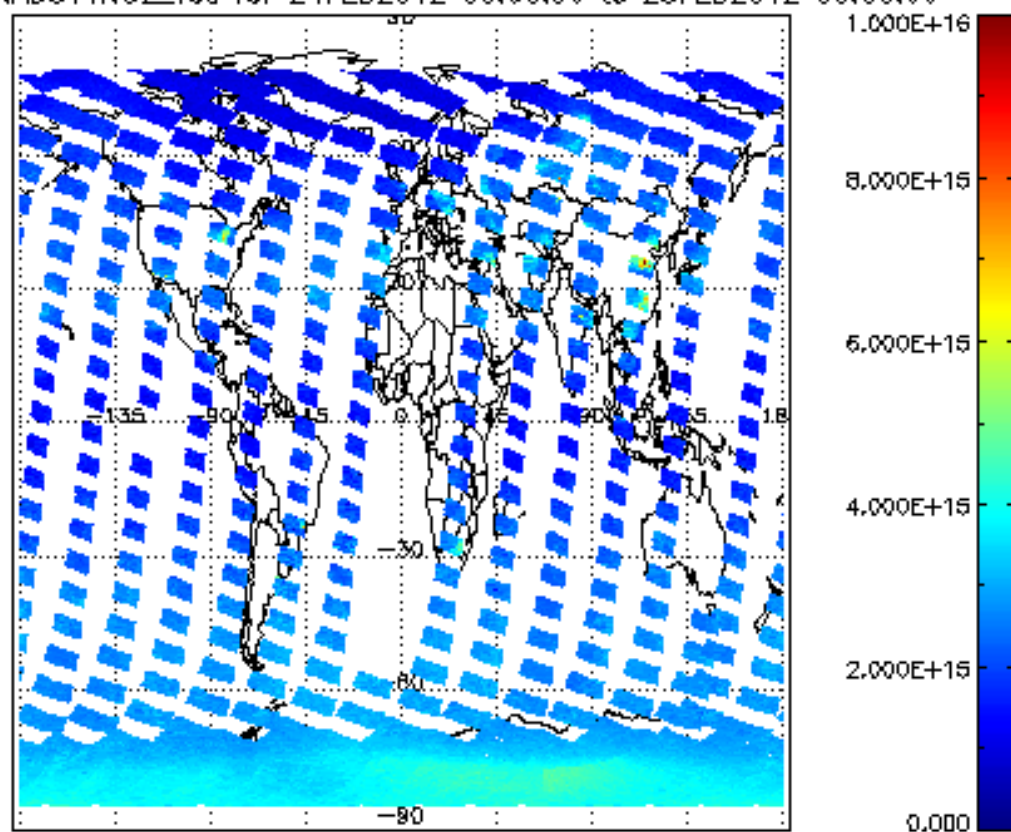


SCIOL2P_NADUV003_amf_cl for 24FEB2012 00:00:00 to 25FEB2012 00:00:00

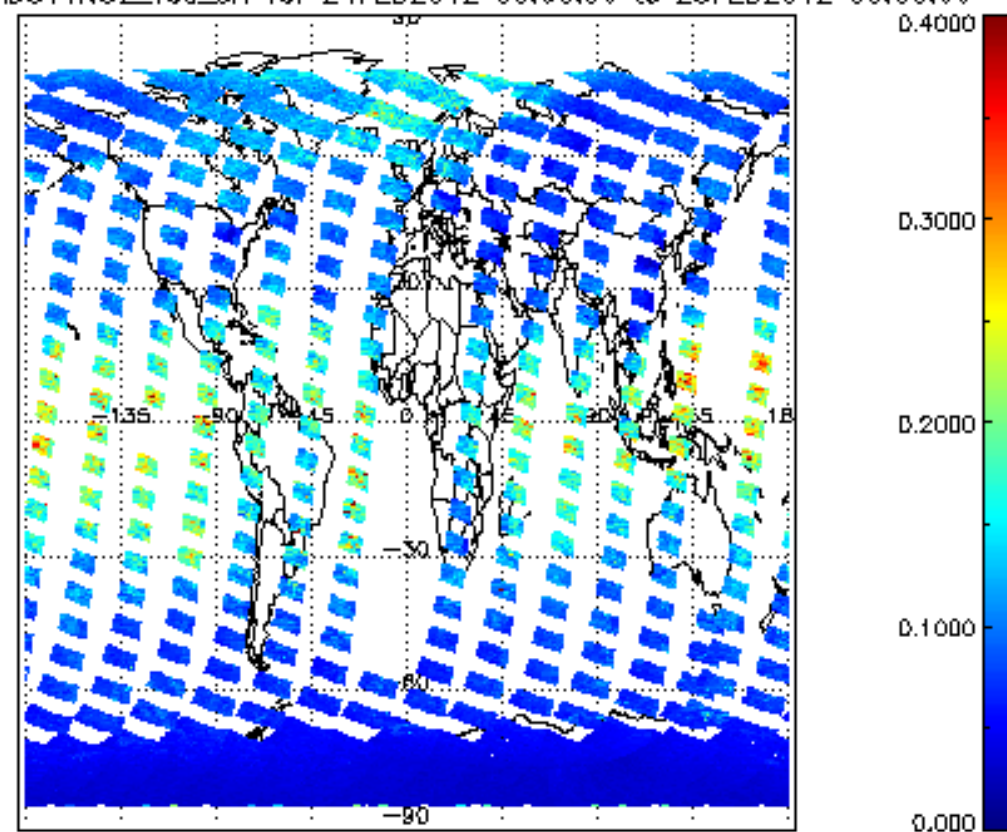




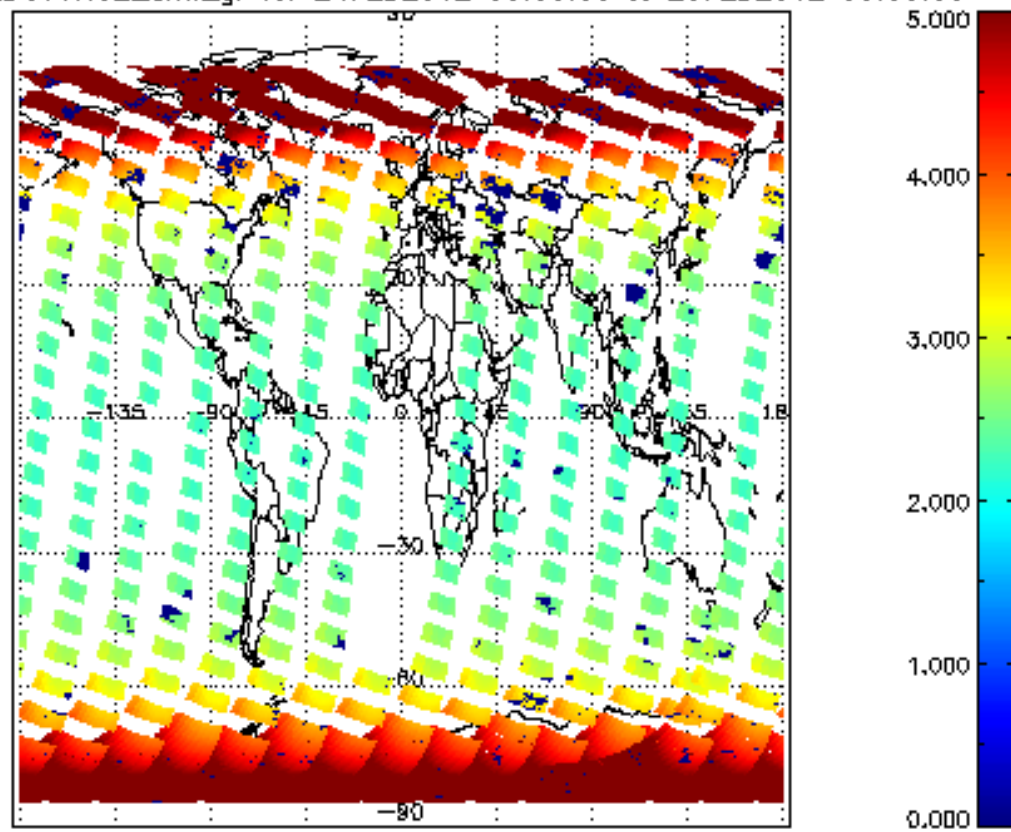
SCIOL2P_NADUV1N02_vcd for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



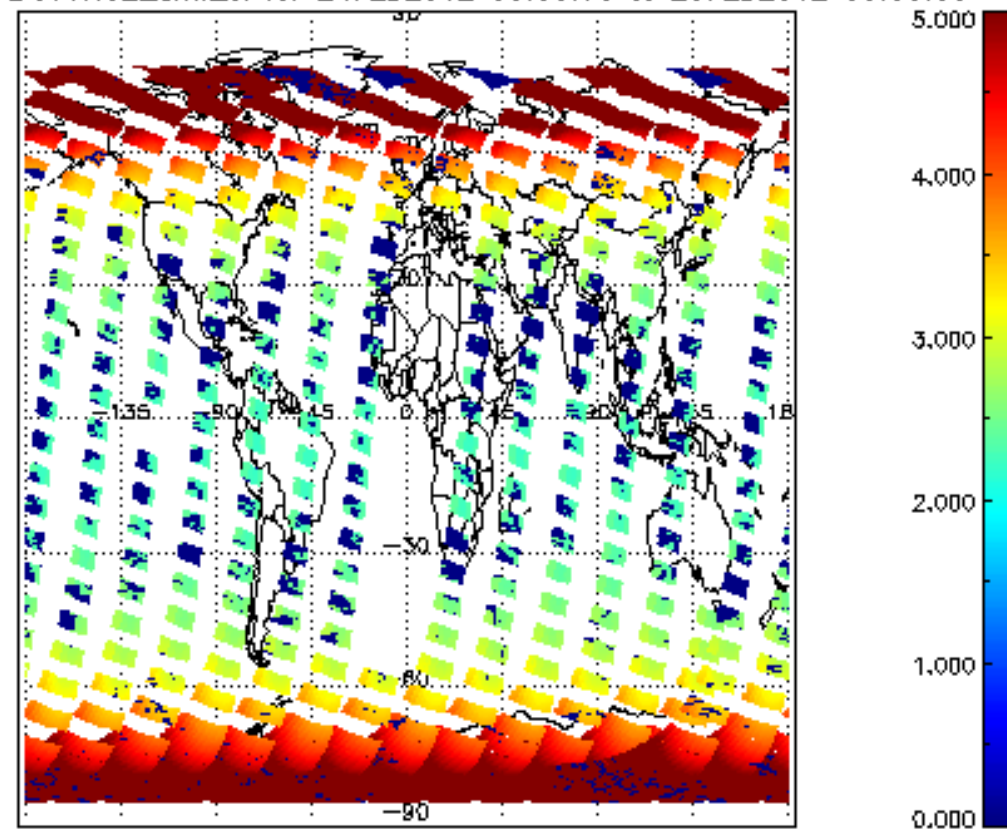
SCIOL2P_NADUV1N02_vcd_err for 24FEB2012 00:00:00 to 25FEB2012 00:00:00

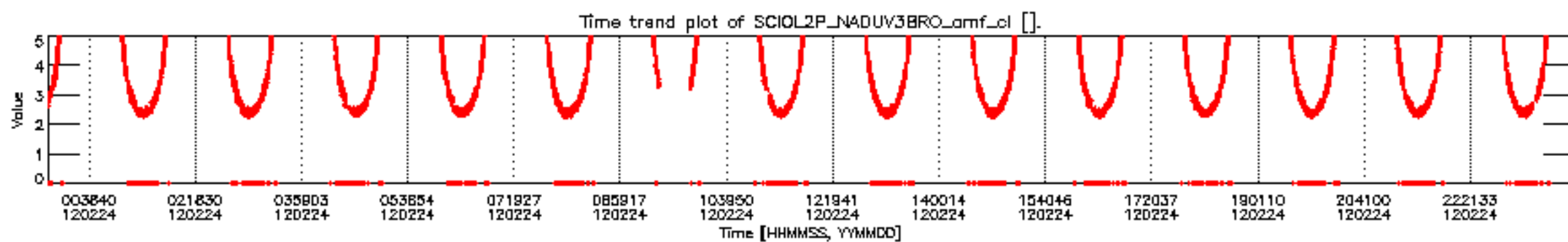
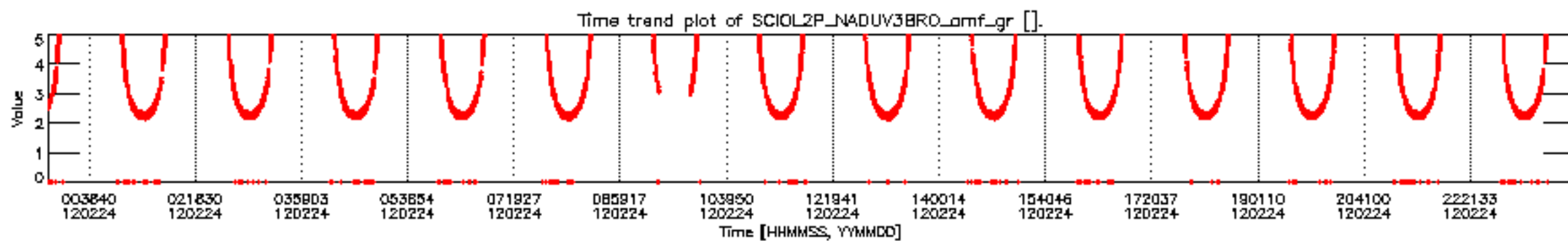
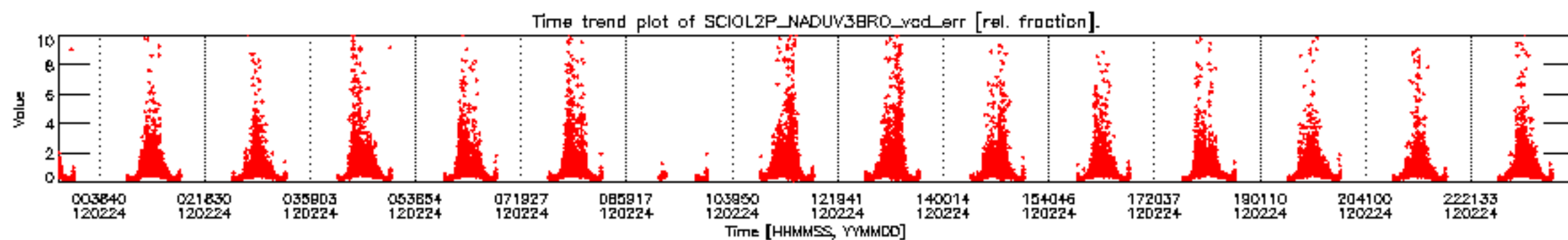
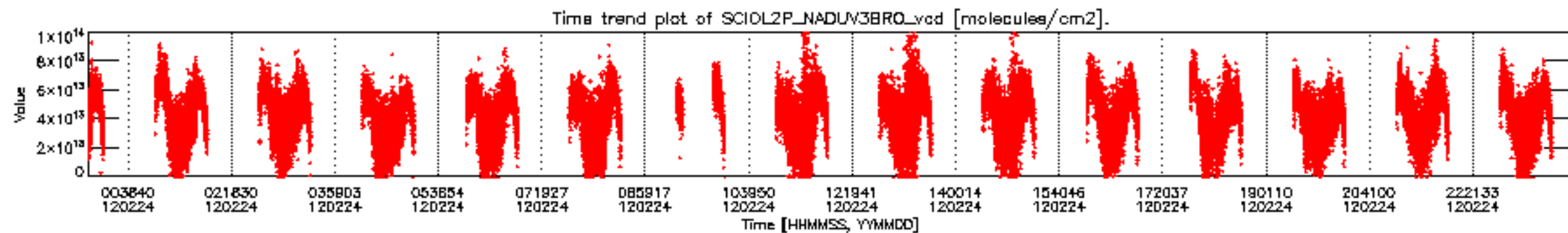


SCIOL2P_NADUV1N02_amf_gr for 24FEB2012 00:00:00 to 25FEB2012 00:00:00

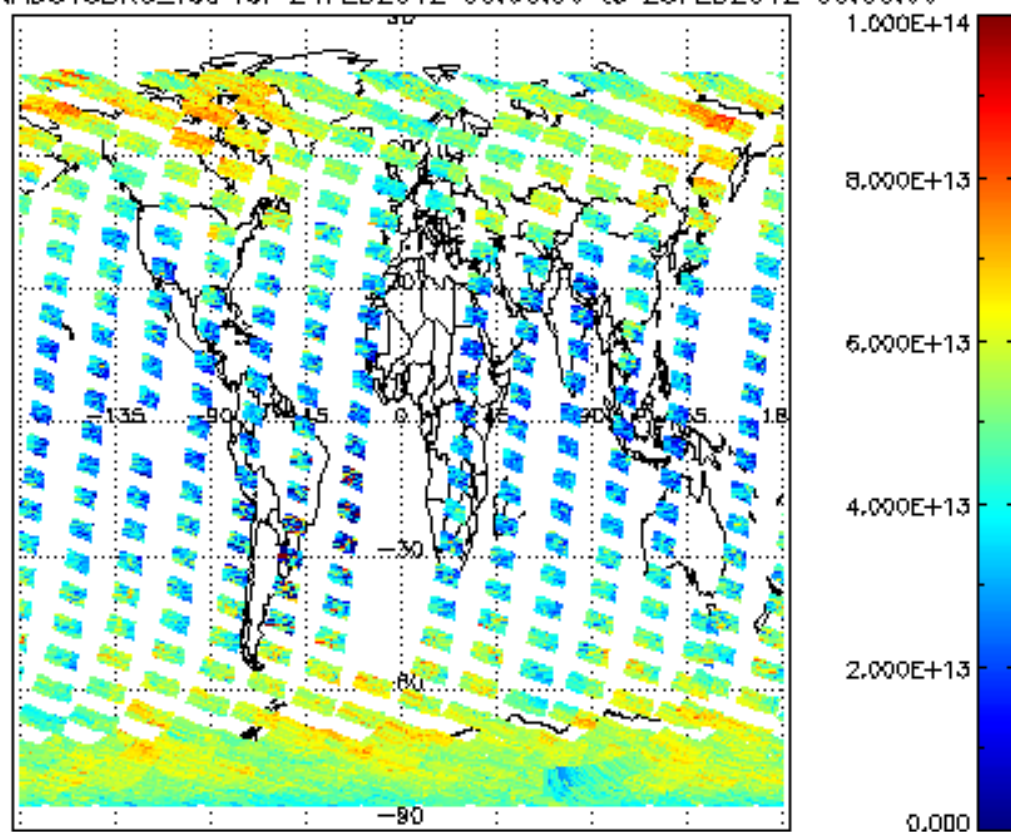


SCIOL2P_NADUV1N02_amf_cl for 24FEB2012 00:00:00 to 25FEB2012 00:00:00

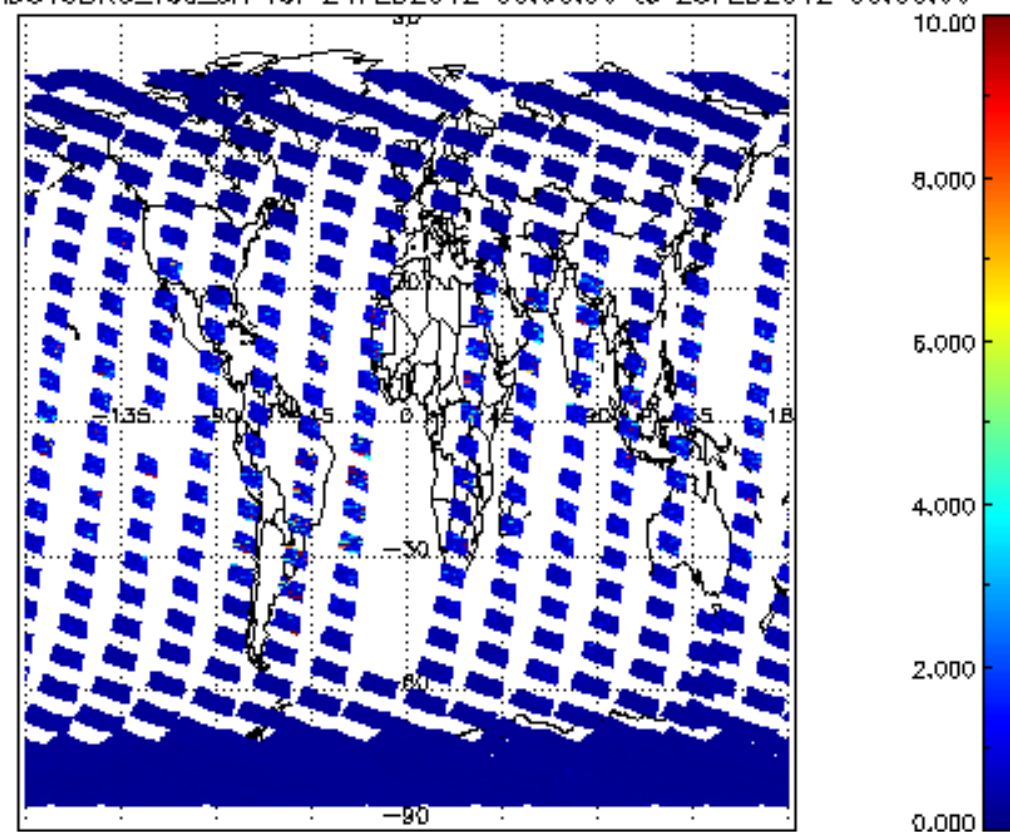




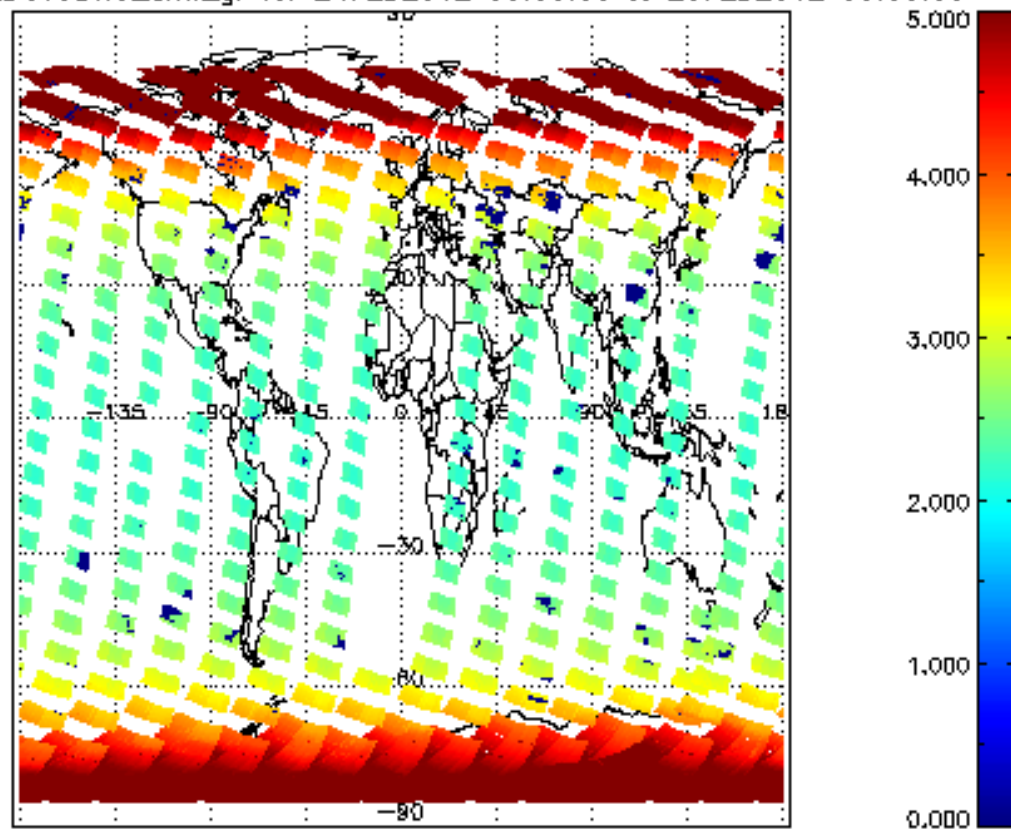
SCIOL2P_NADUV3BRO_vcd for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



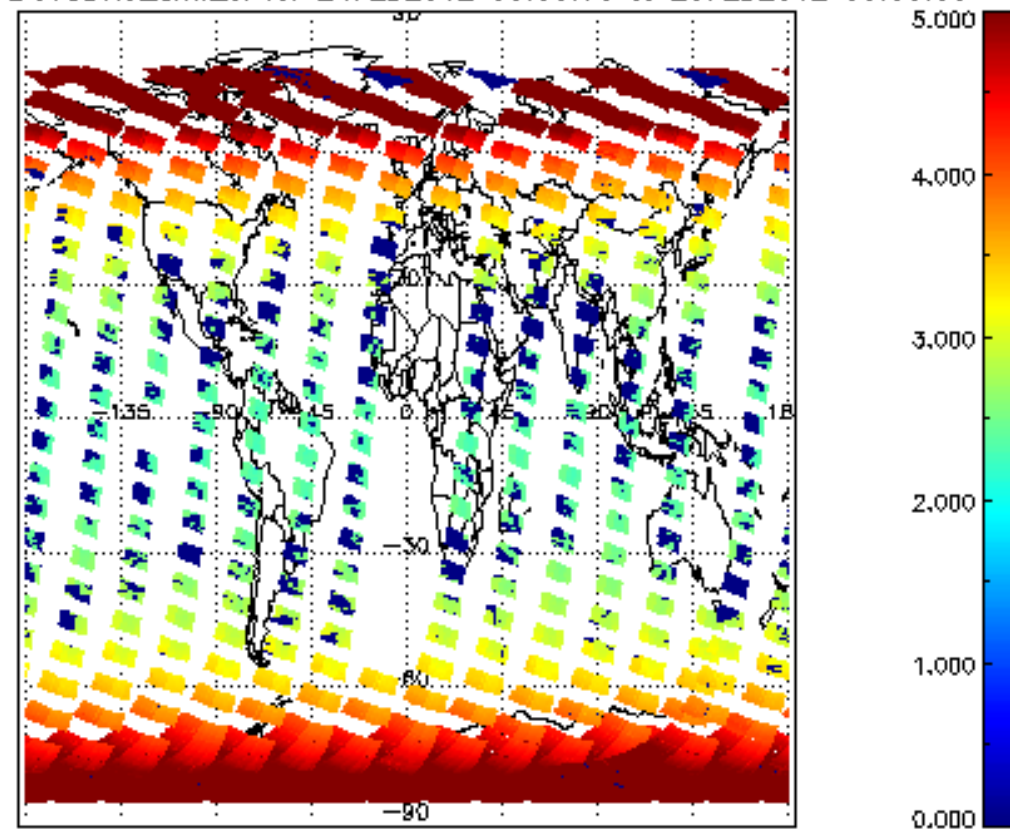
SCIOL2P_NADUV3BRO_vcd_err for 24FEB2012 00:00:00 to 25FEB2012 00:00:00

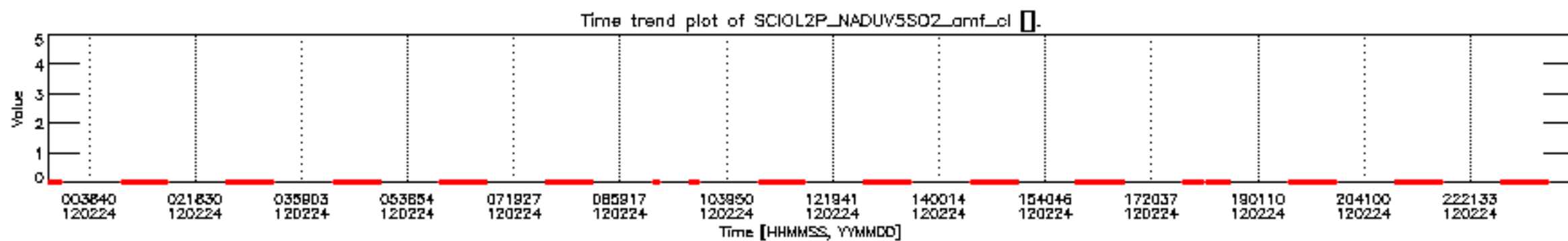
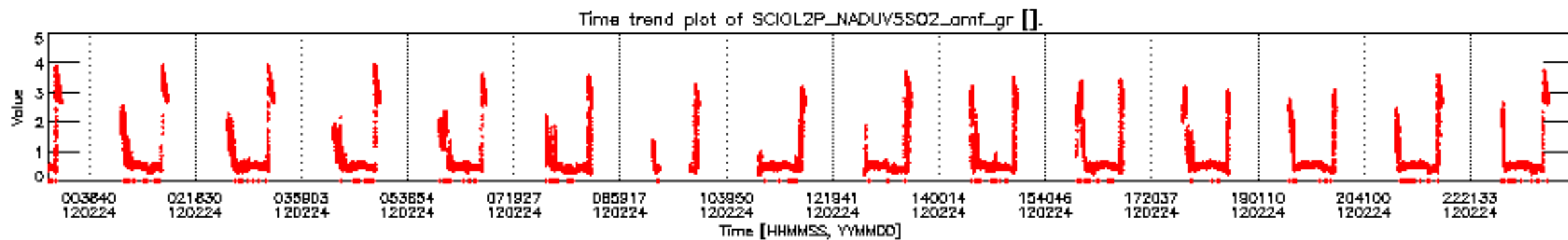
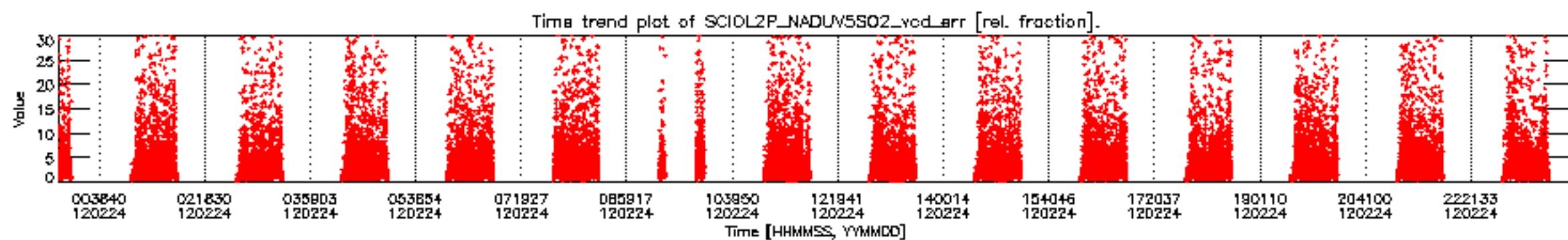
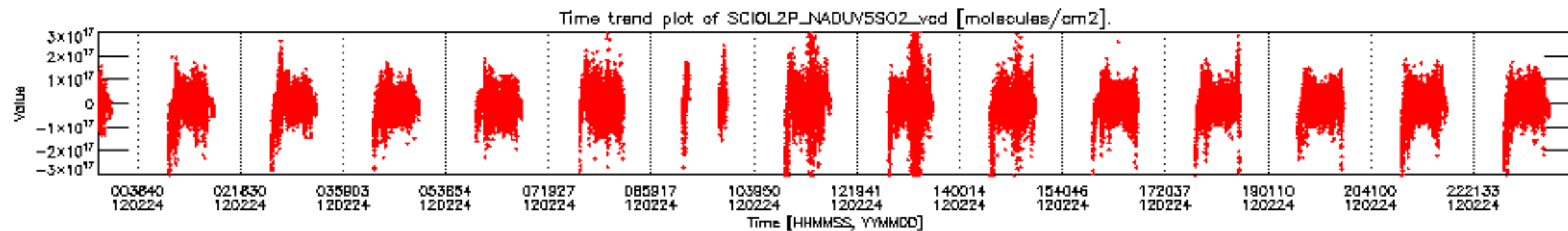


SCIOL2P_NADUV3BRO_amf_gr for 24FEB2012 00:00:00 to 25FEB2012 00:00:00

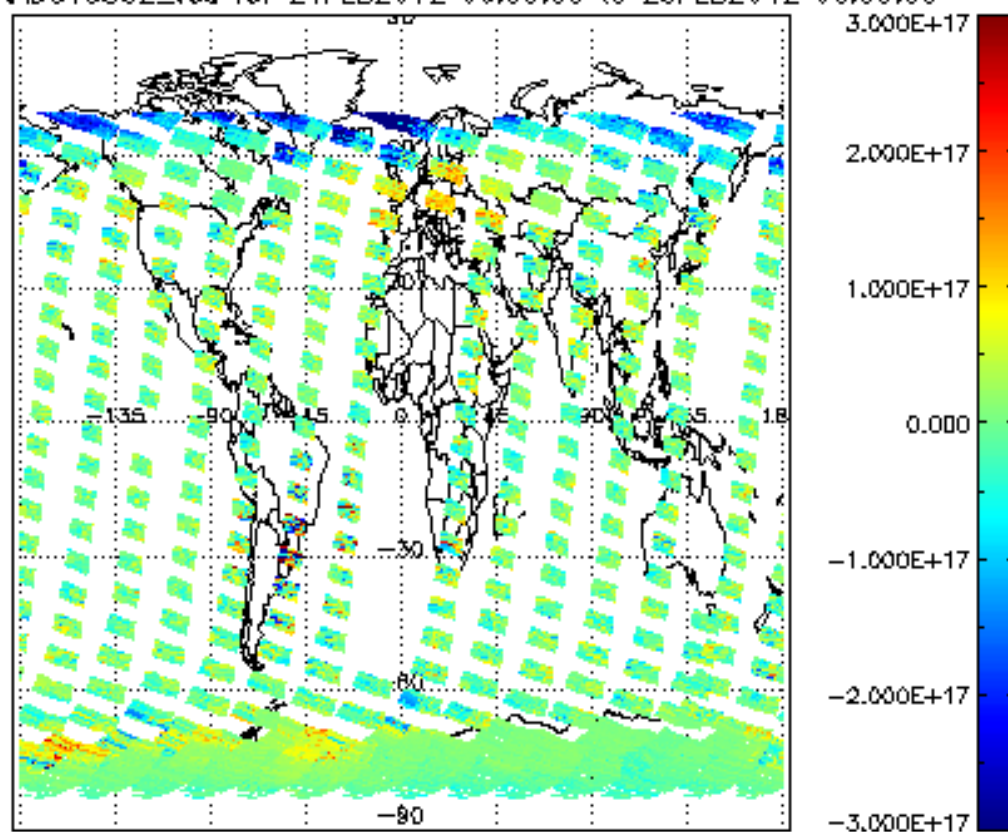


SCIOL2P_NADUV3BRO_amf_cl for 24FEB2012 00:00:00 to 25FEB2012 00:00:00

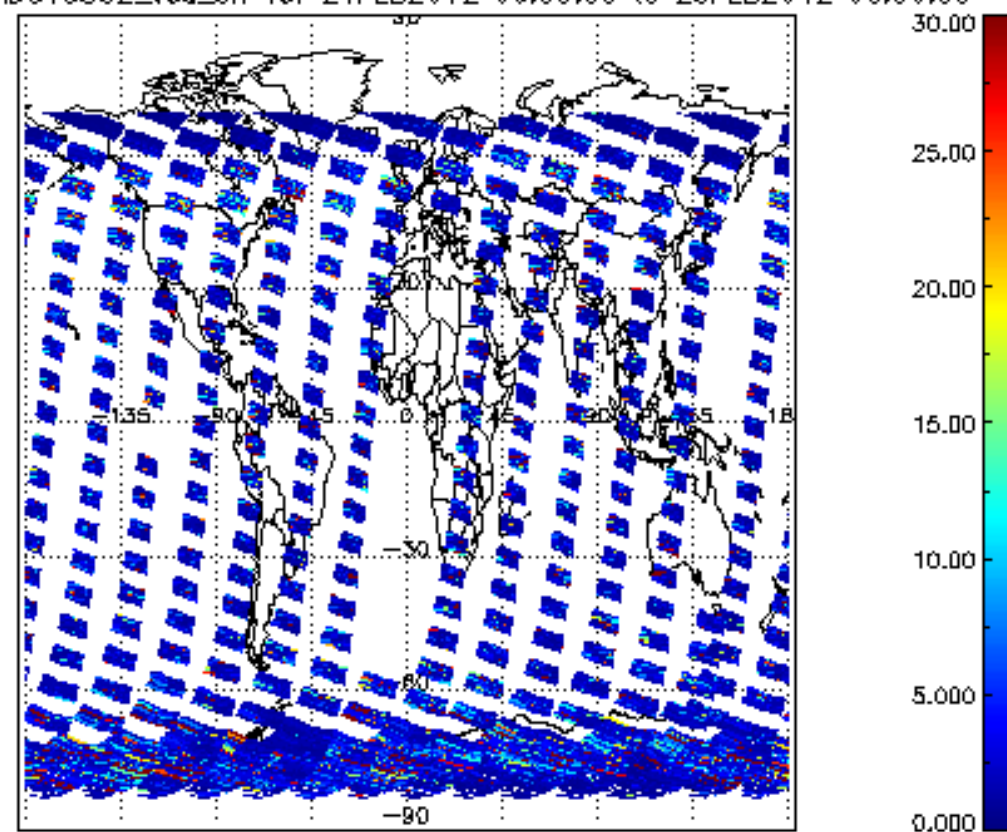




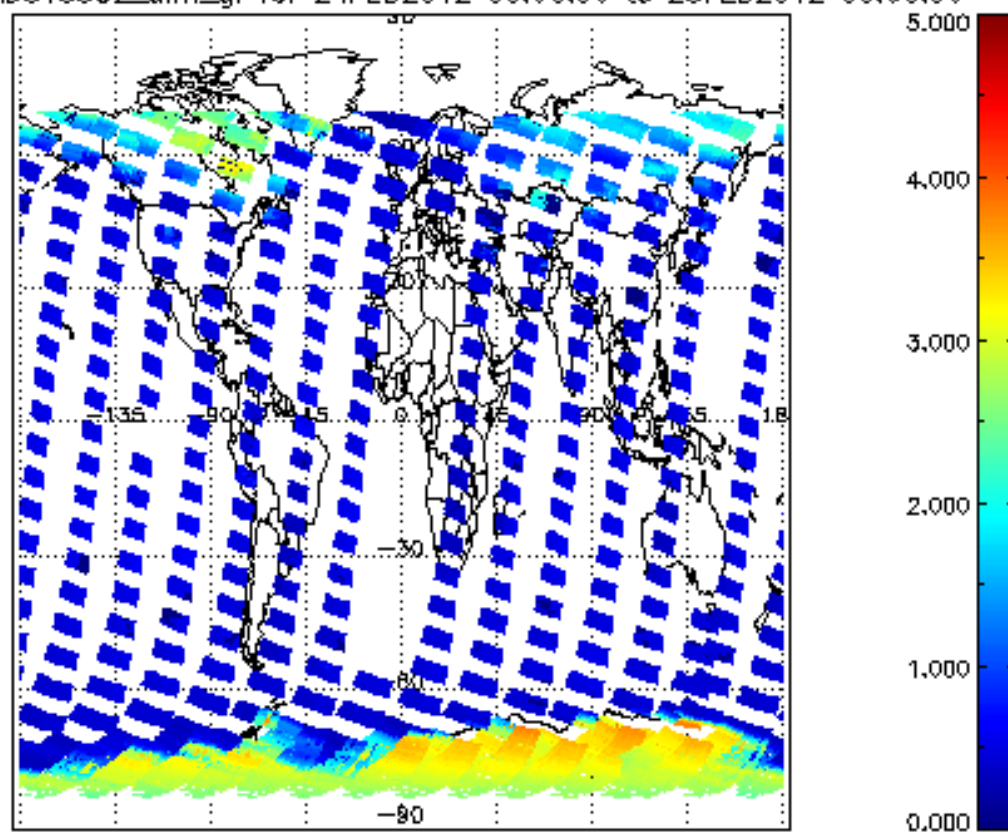
SCIOL2P_NADUV5S02_vcd for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



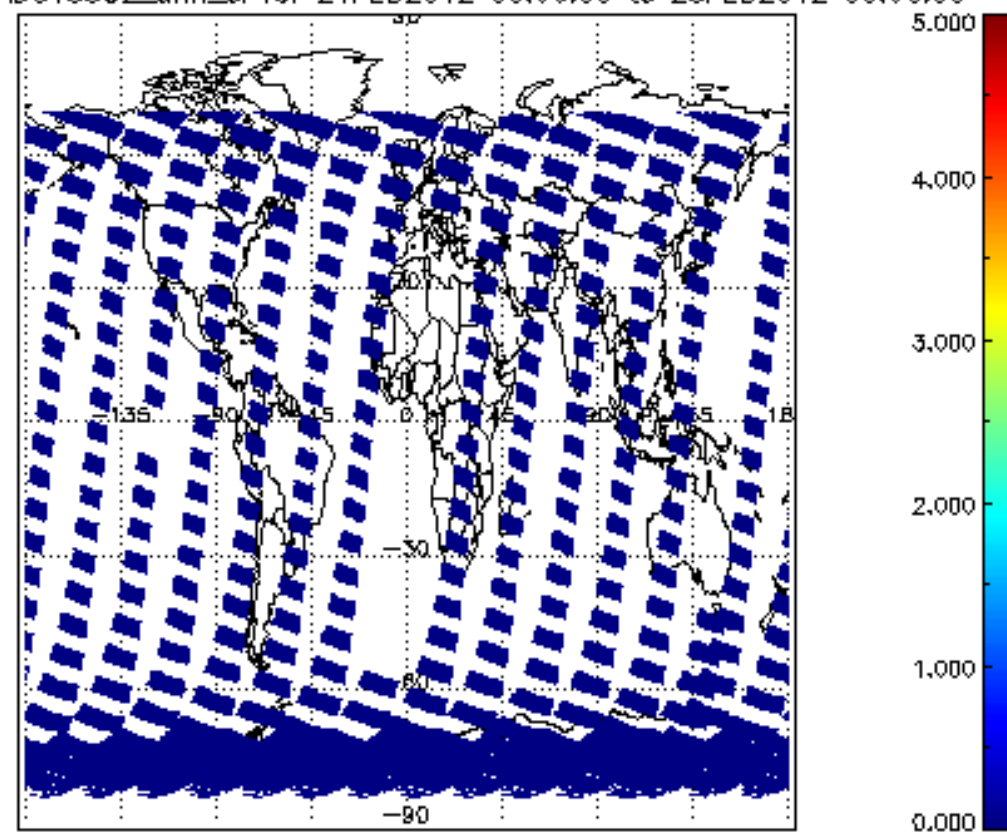
SCIOL2P_NADUV5S02_vcd_err for 24FEB2012 00:00:00 to 25FEB2012 00:00:00

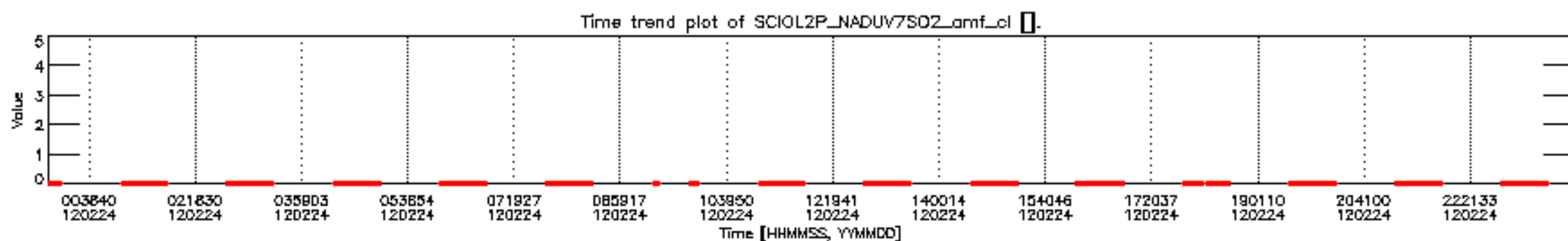
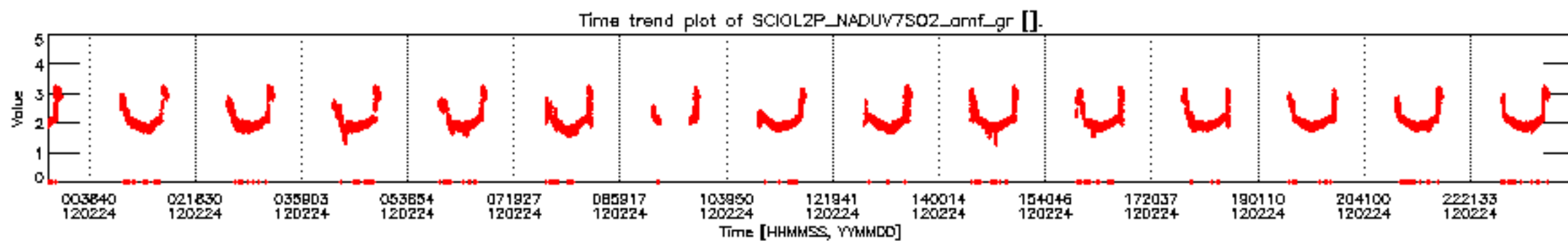
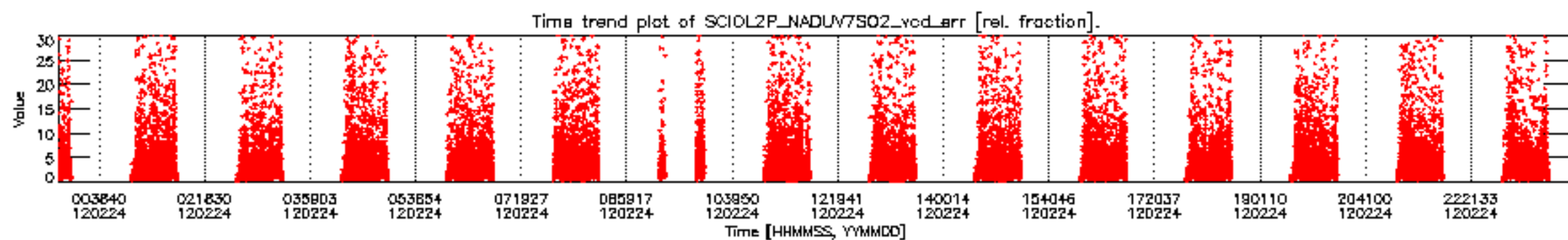
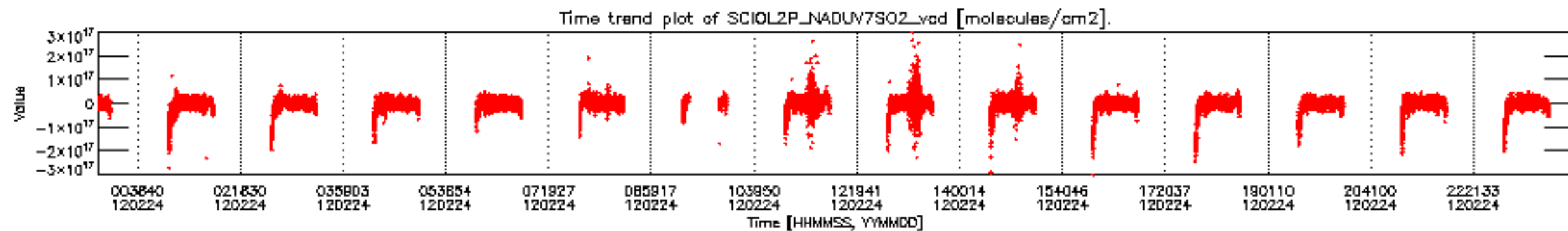


SCIOL2P_NADUV5S02_amf_gr for 24FEB2012 00:00:00 to 25FEB2012 00:00:00

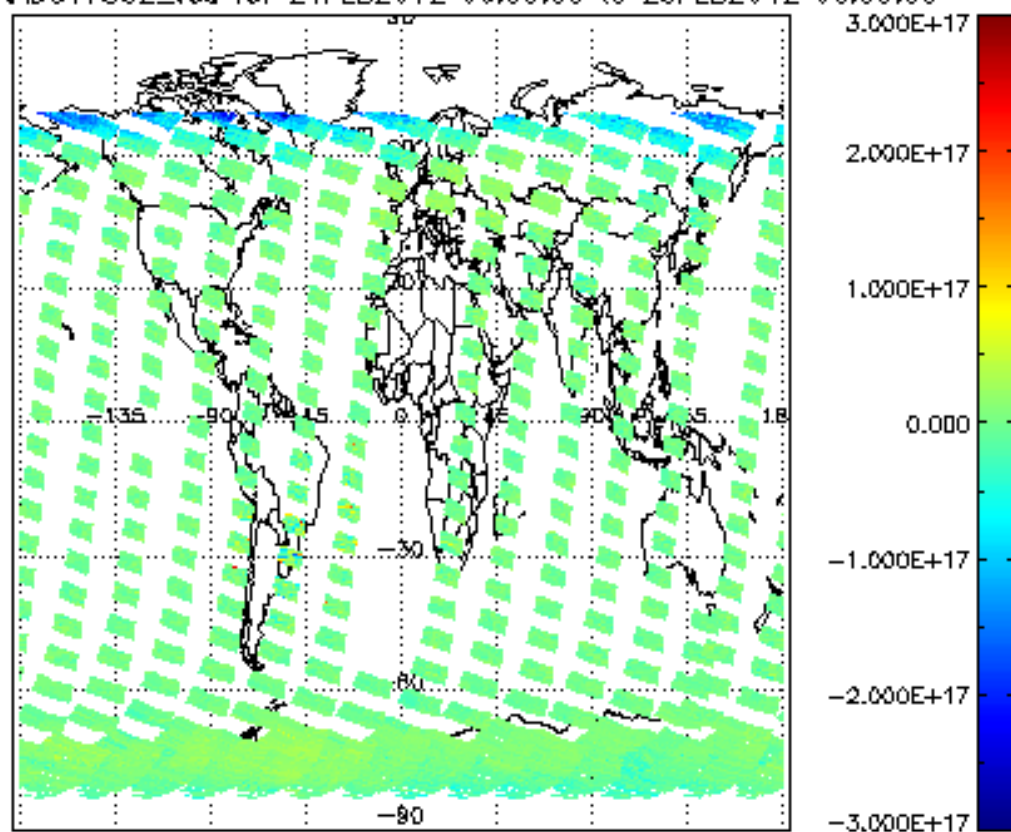


SCIOL2P_NADUV5S02_amf_cl for 24FEB2012 00:00:00 to 25FEB2012 00:00:00

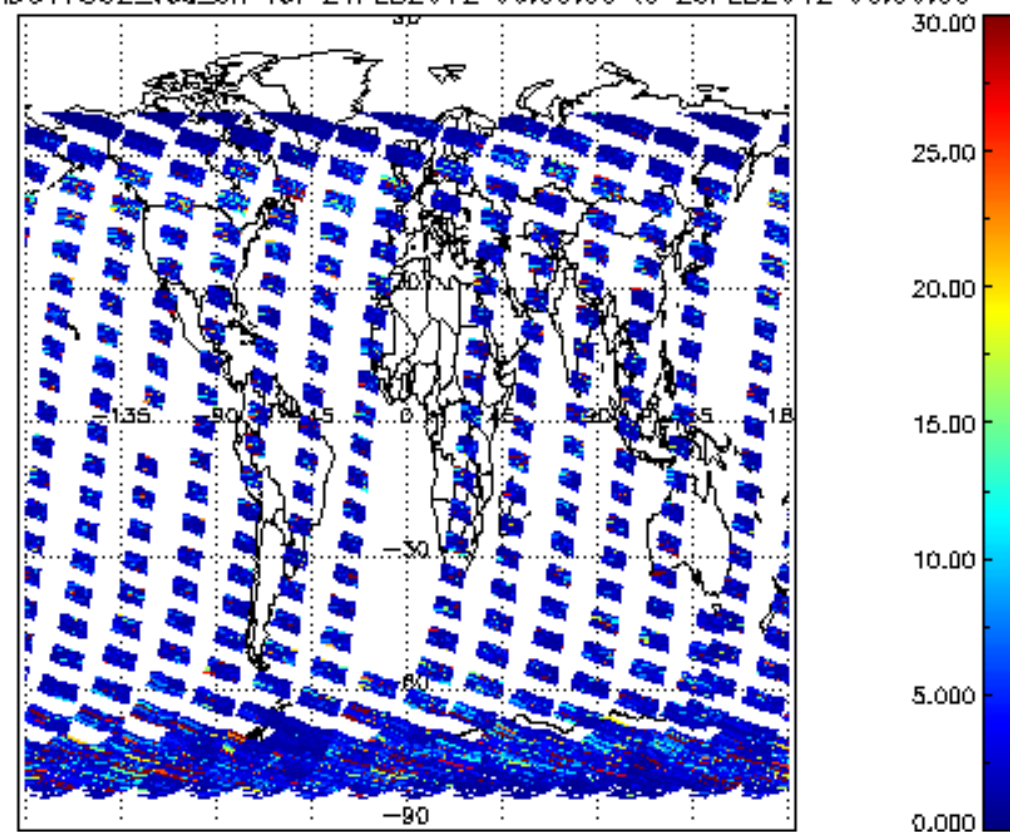




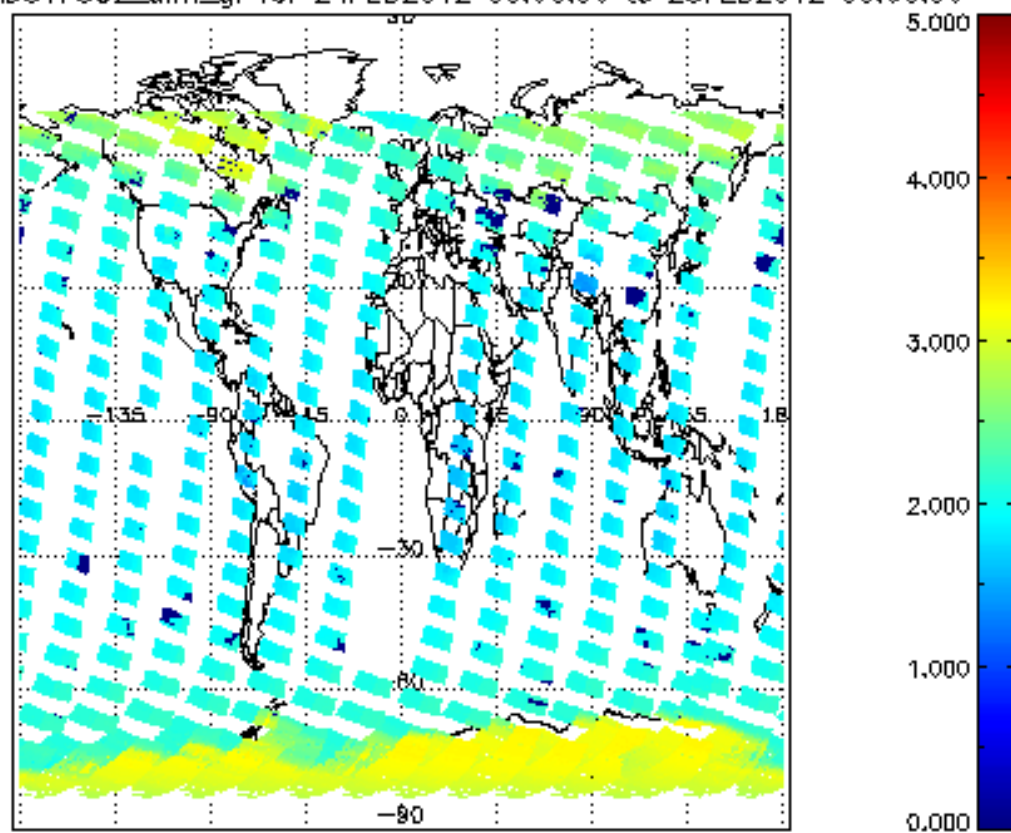
SCIOL2P_NADUV7S02_vcd for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



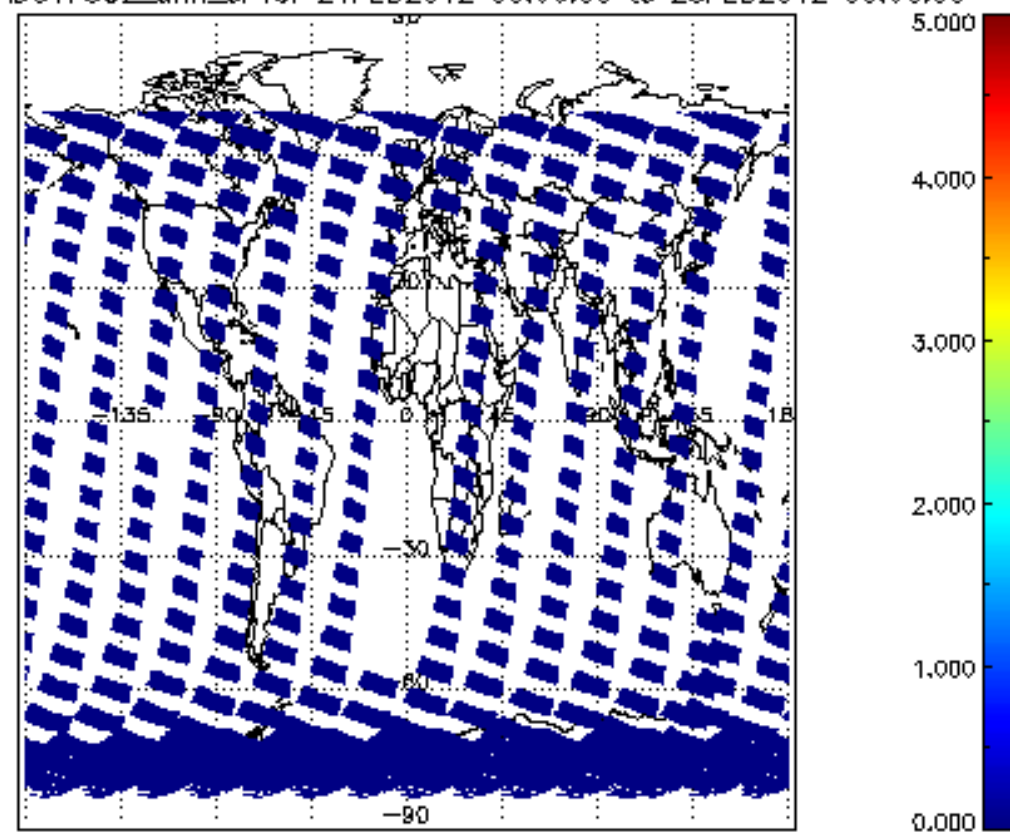
SCIOL2P_NADUV7S02_vcd_err for 24FEB2012 00:00:00 to 25FEB2012 00:00:00

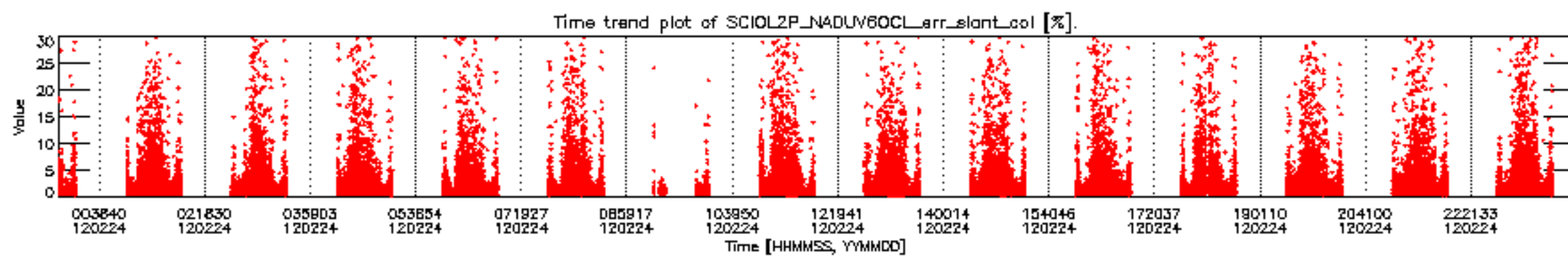
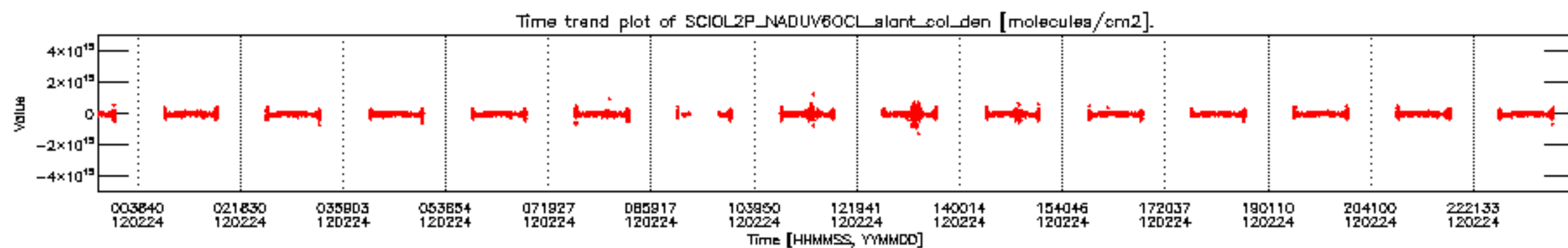


SCIOL2P_NADUV7S02_amf_gr for 24FEB2012 00:00:00 to 25FEB2012 00:00:00

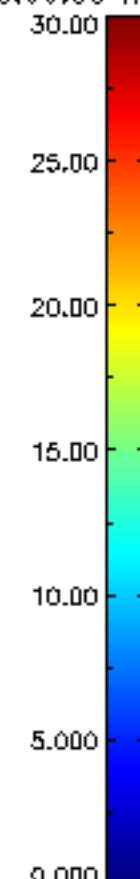
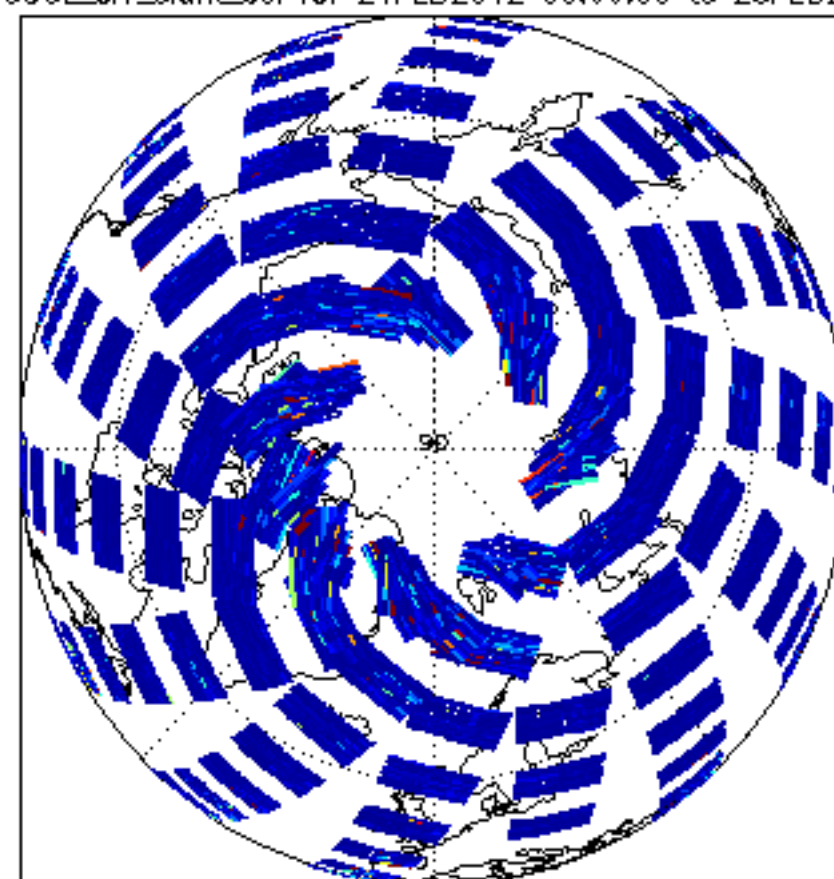
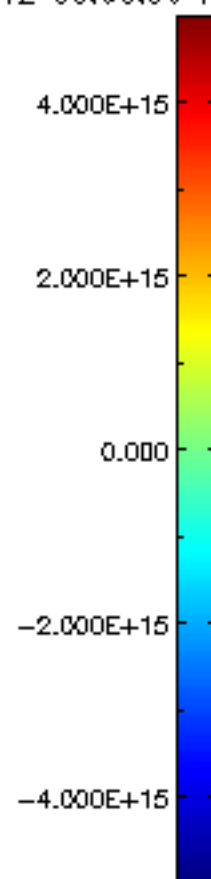
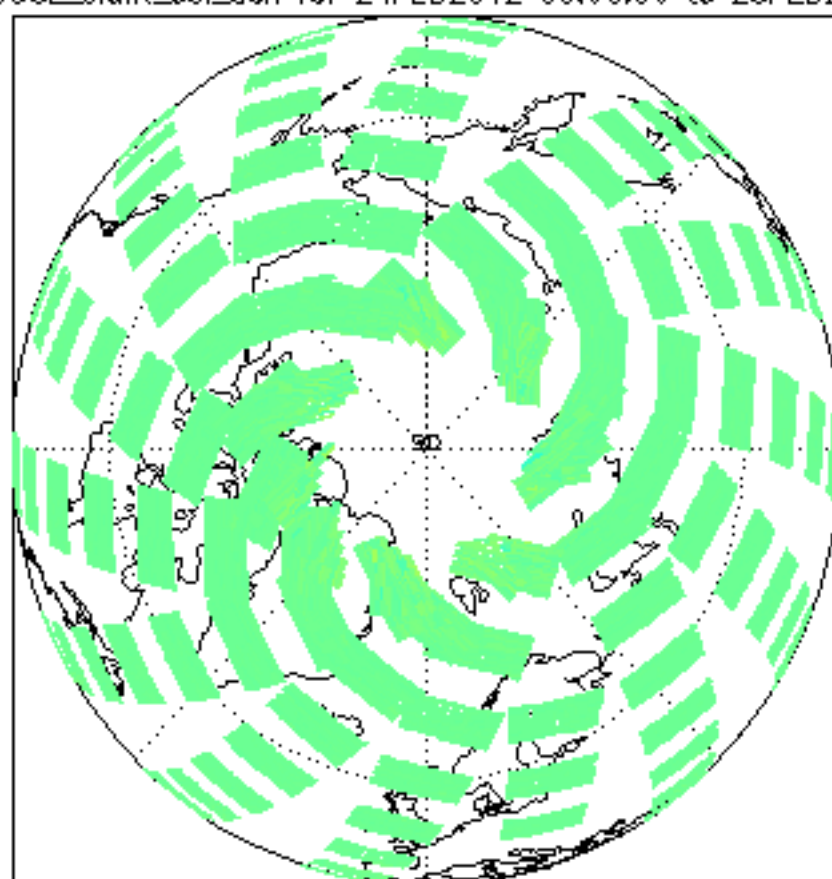


SCIOL2P_NADUV7S02_amf_cl for 24FEB2012 00:00:00 to 25FEB2012 00:00:00

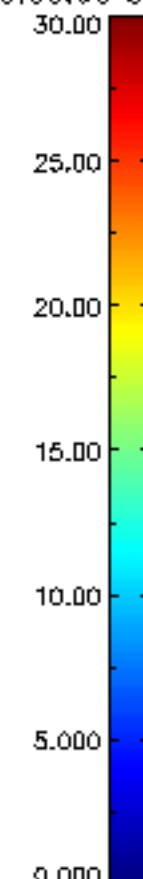
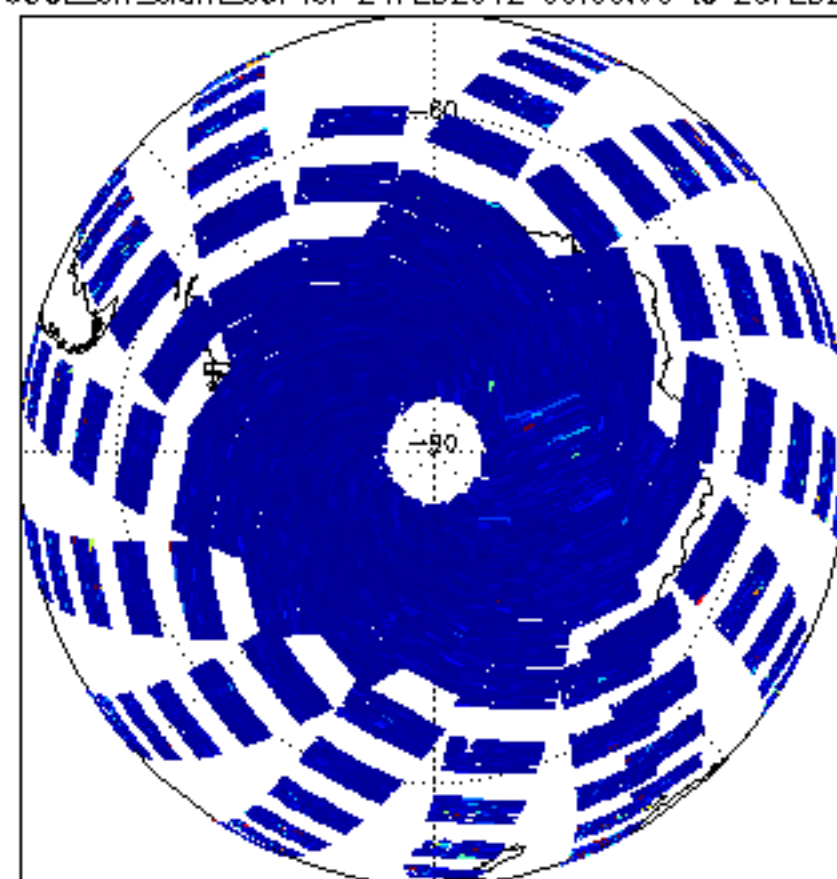
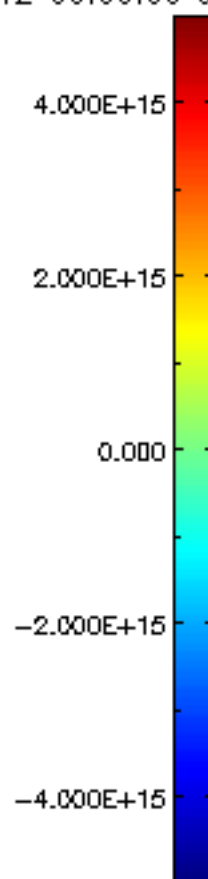
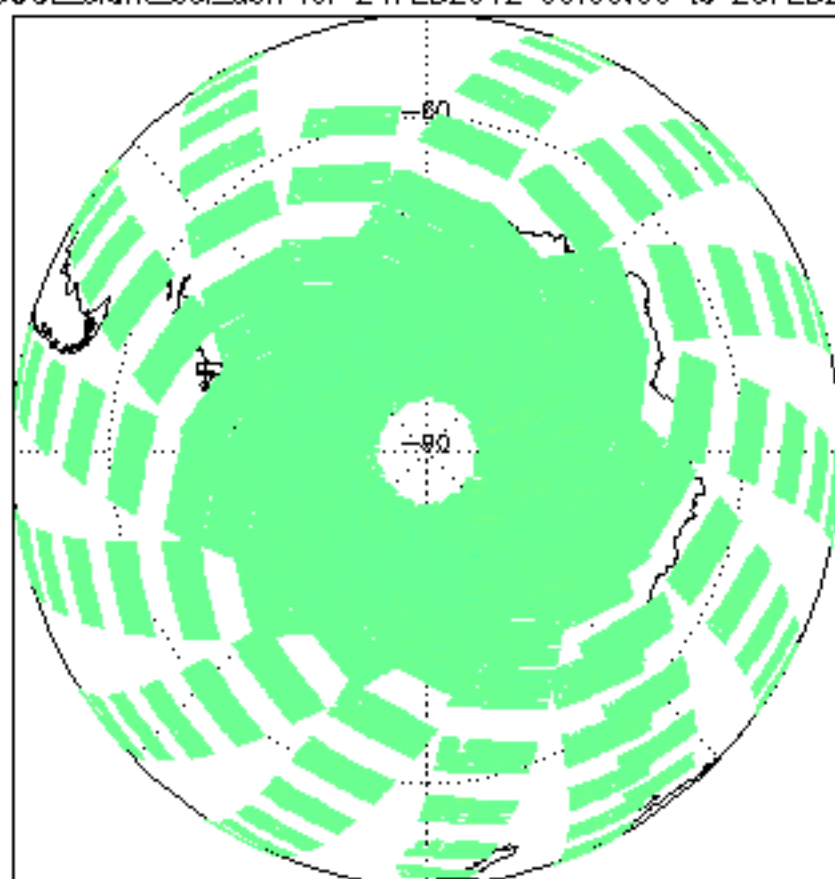


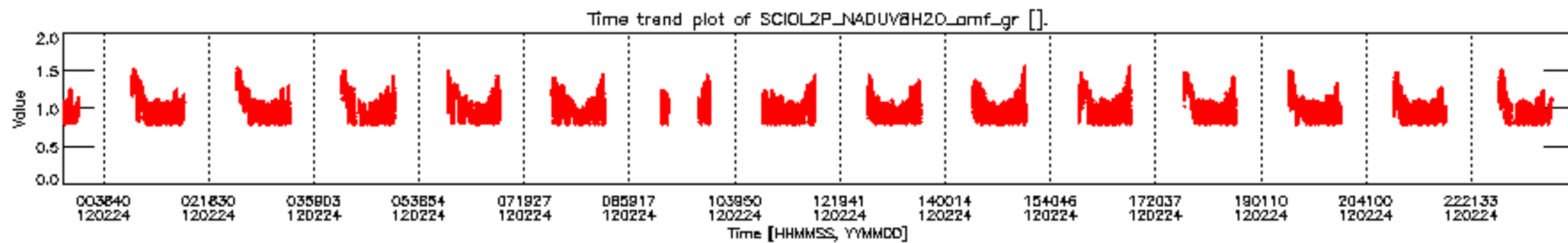
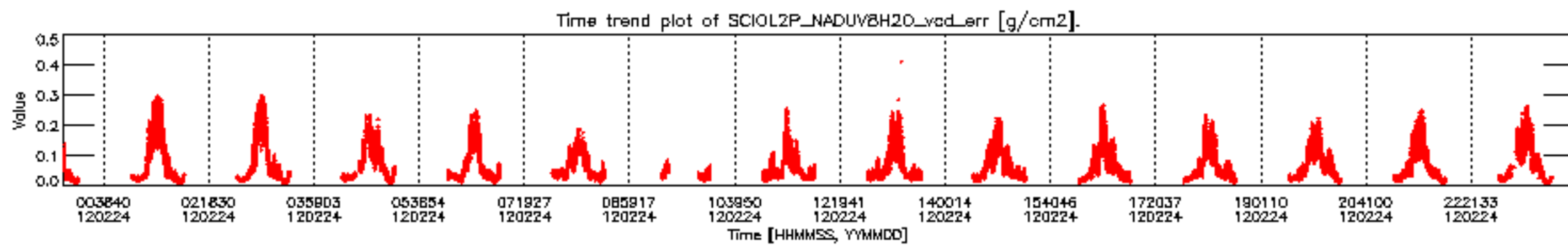
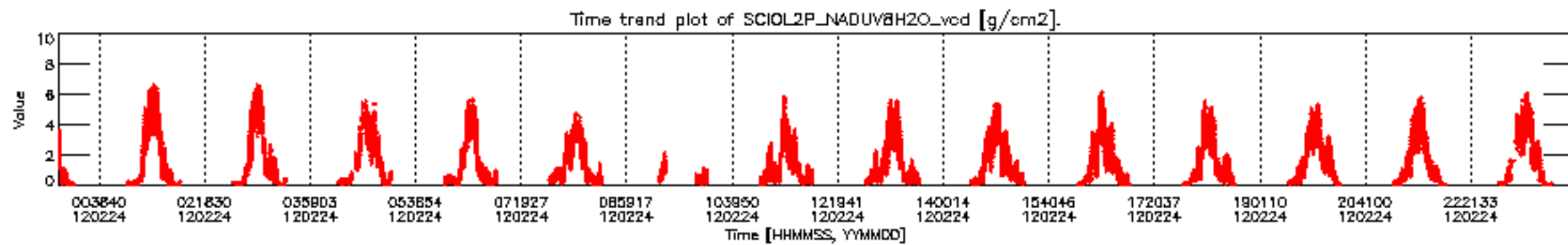


CIOL2P_NADUV6OCL_slant_col_den for 24FEB2012 00:00:00 to 25FEB2012 00:00:00 np; CIOL2P_NADUV6OCL_err_slant_col for 24FEB2012 00:00:00 to 25FEB2012 00:00:00 np

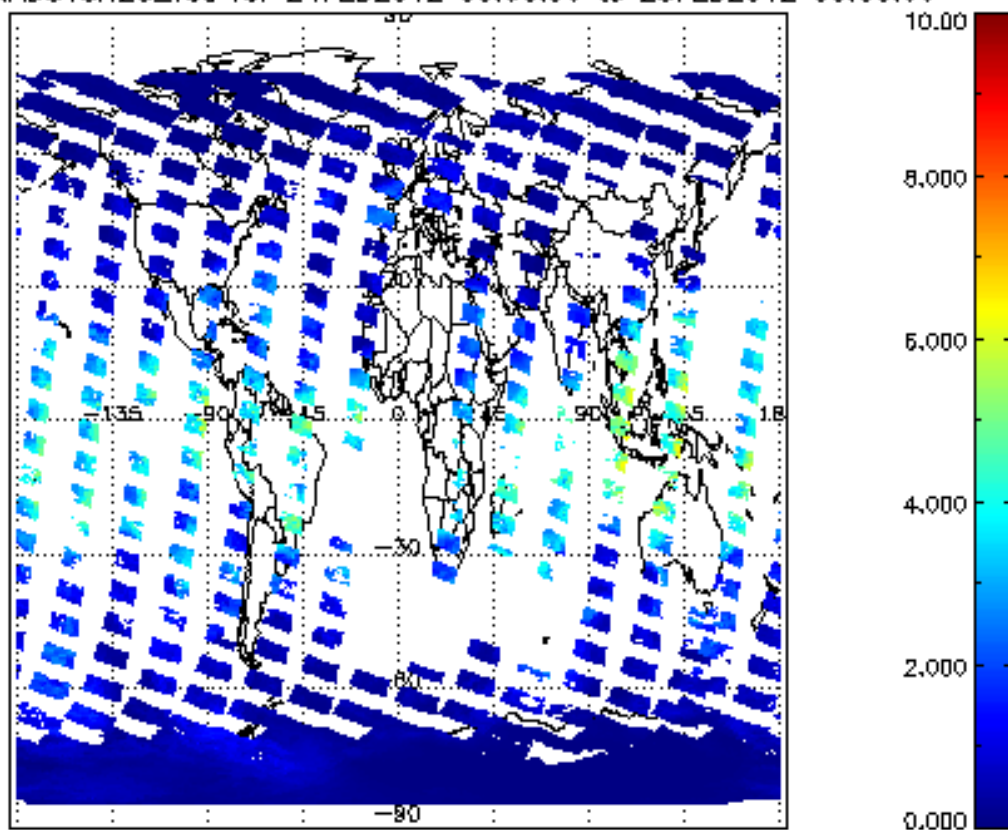


CIOL2P_NADUV6OCL_slant_col_den for 24FEB2012 00:00:00 to 25FEB2012 00:00:00 sp; CIOL2P_NADUV6OCL_err_slant_col for 24FEB2012 00:00:00 to 25FEB2012 00:00:00 sp

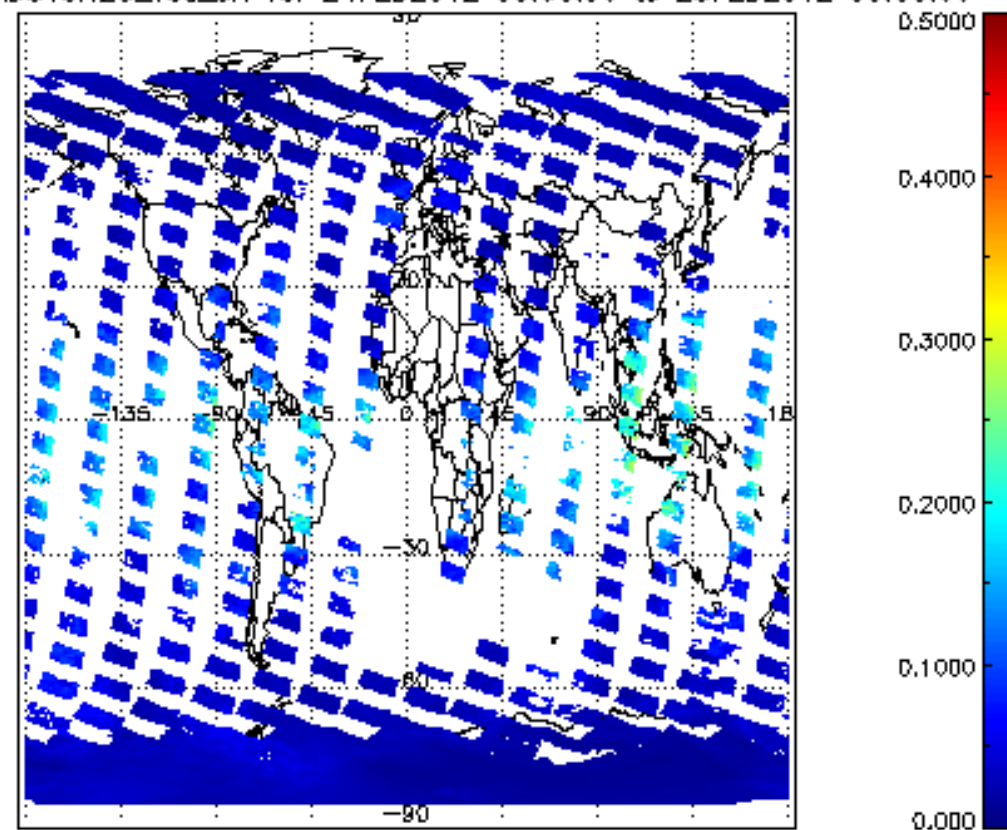




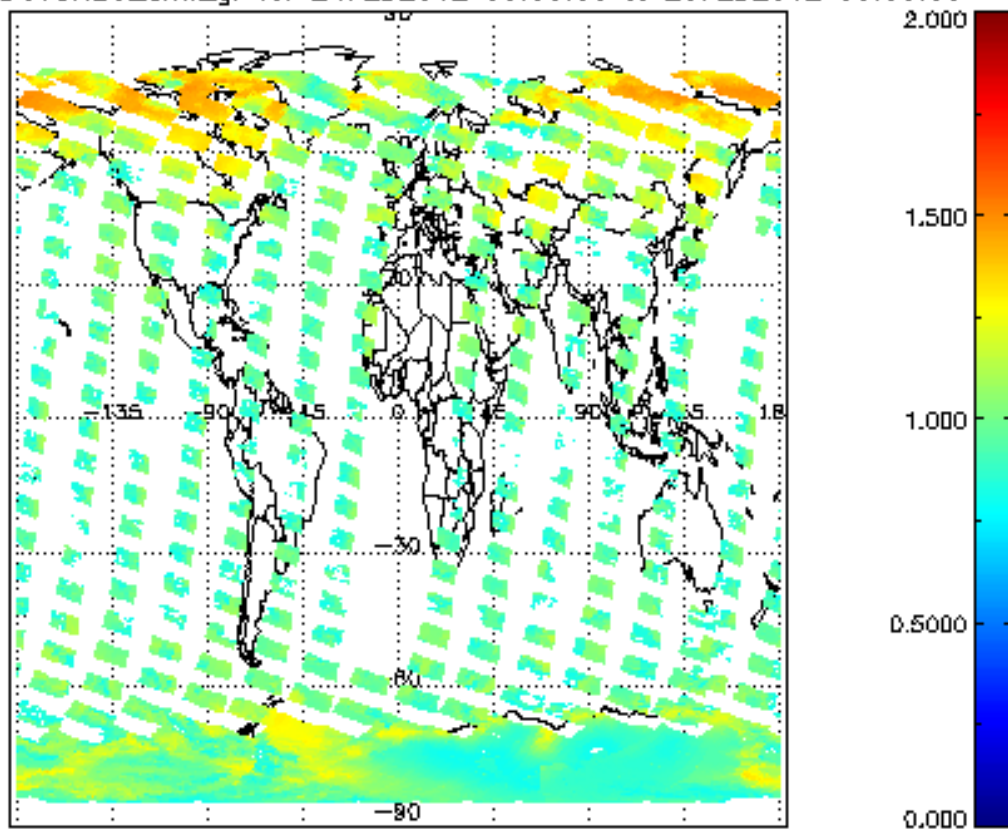
SCIOL2P_NADUV8H20_vcd for 24FEB2012 00:00:00 to 25FEB2012 00:00:00

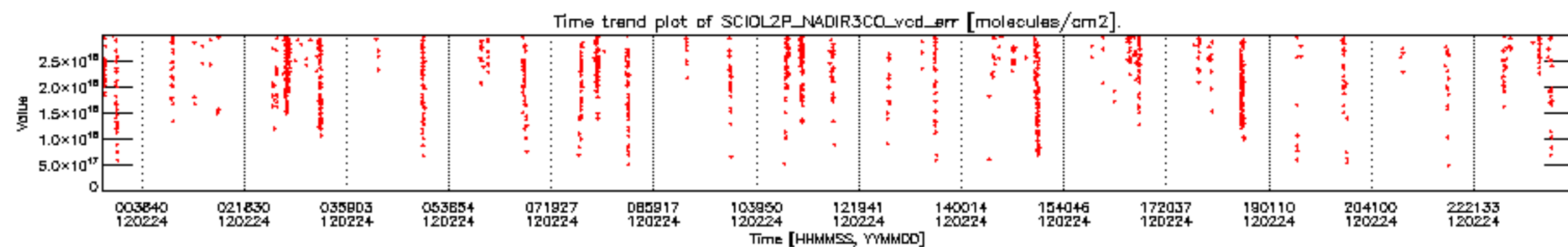
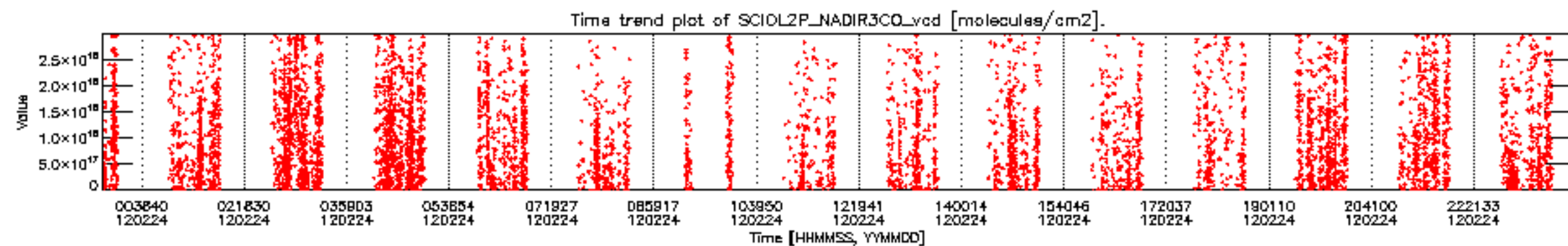


SCIOL2P_NADUV8H20_vcd_err for 24FEB2012 00:00:00 to 25FEB2012 00:00:00

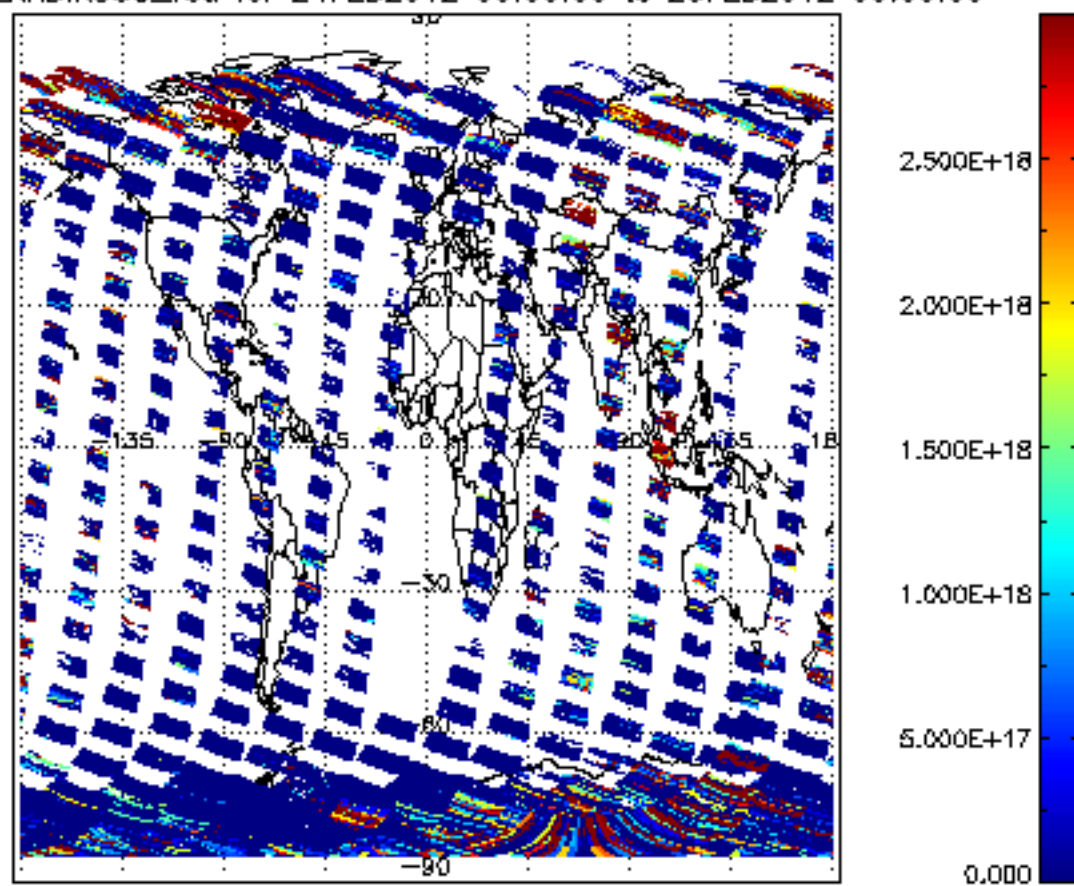


SCIOL2P_NADUV8H20_amf_gr for 24FEB2012 00:00:00 to 25FEB2012 00:00:00

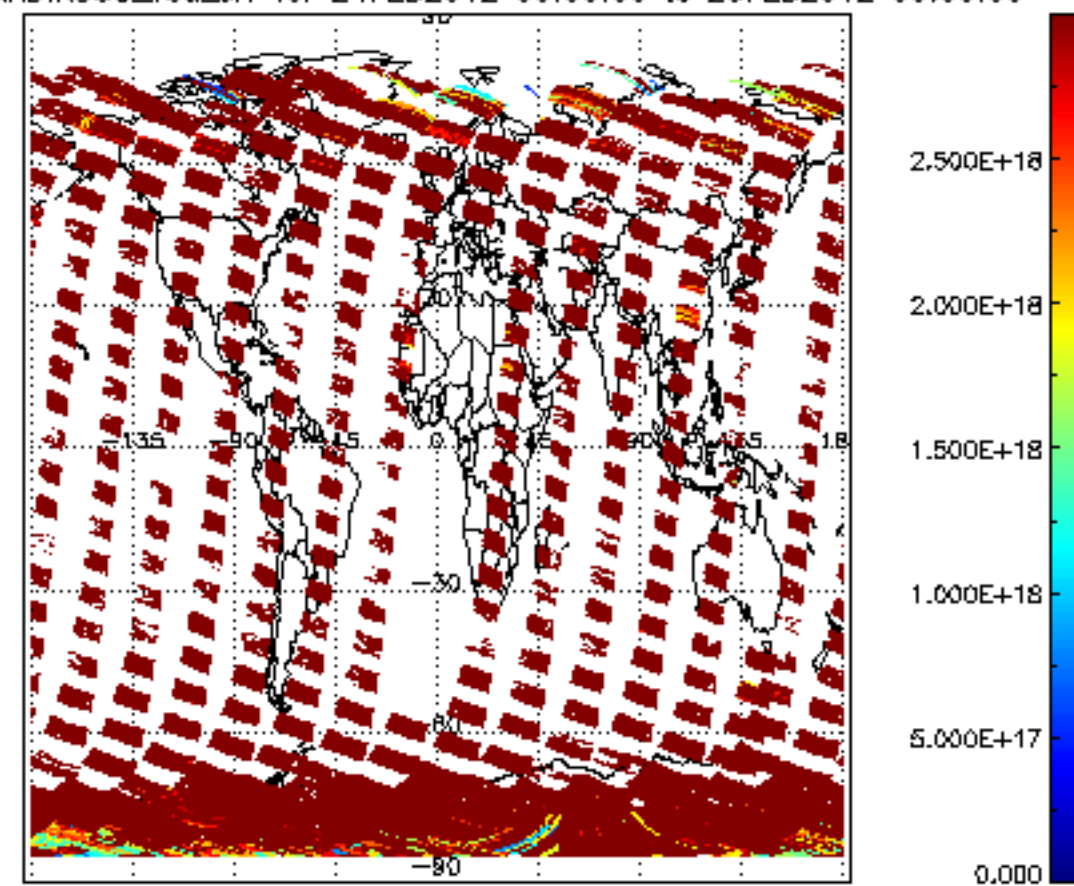




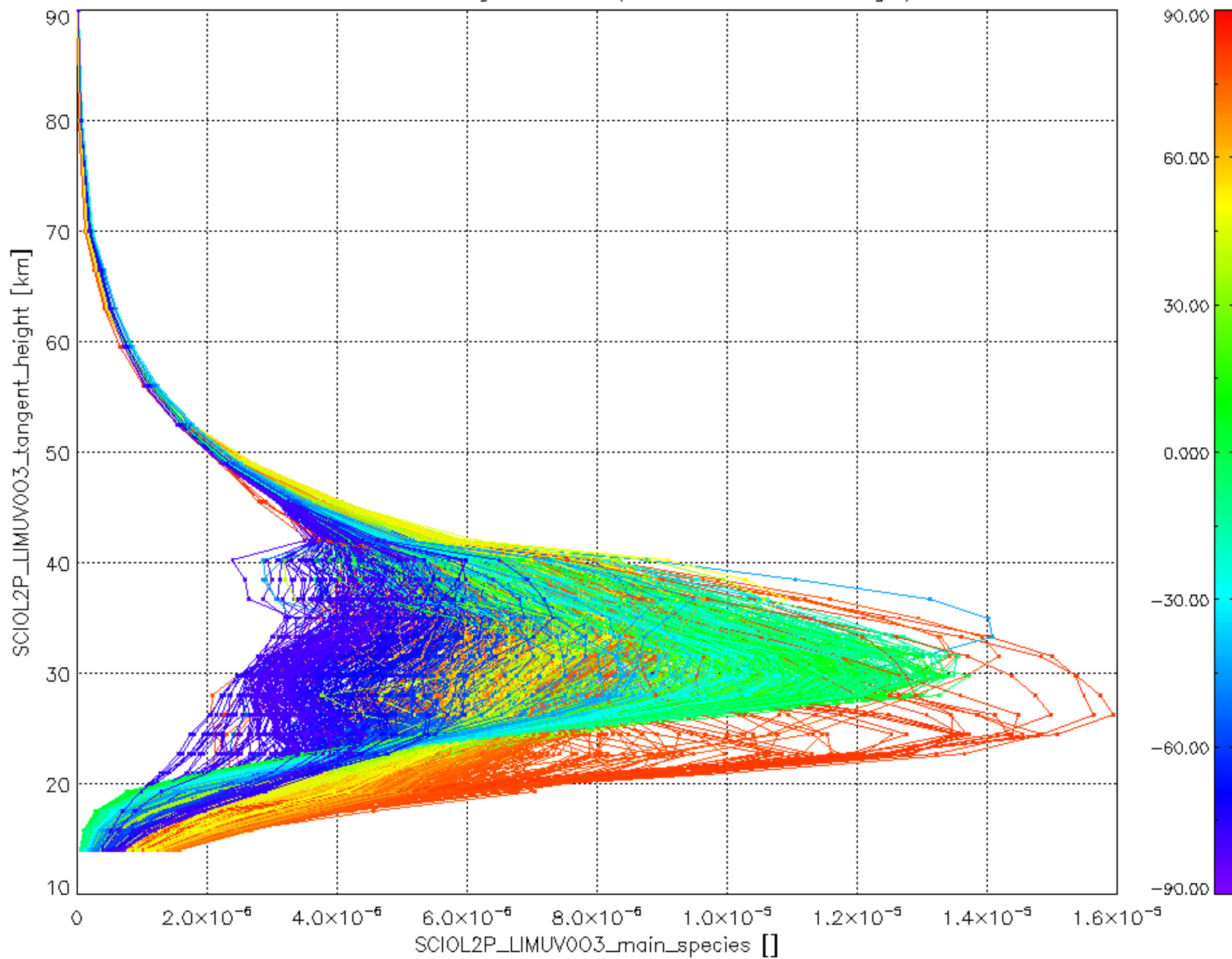
SCIOL2P_NADIR3CO_vcd for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



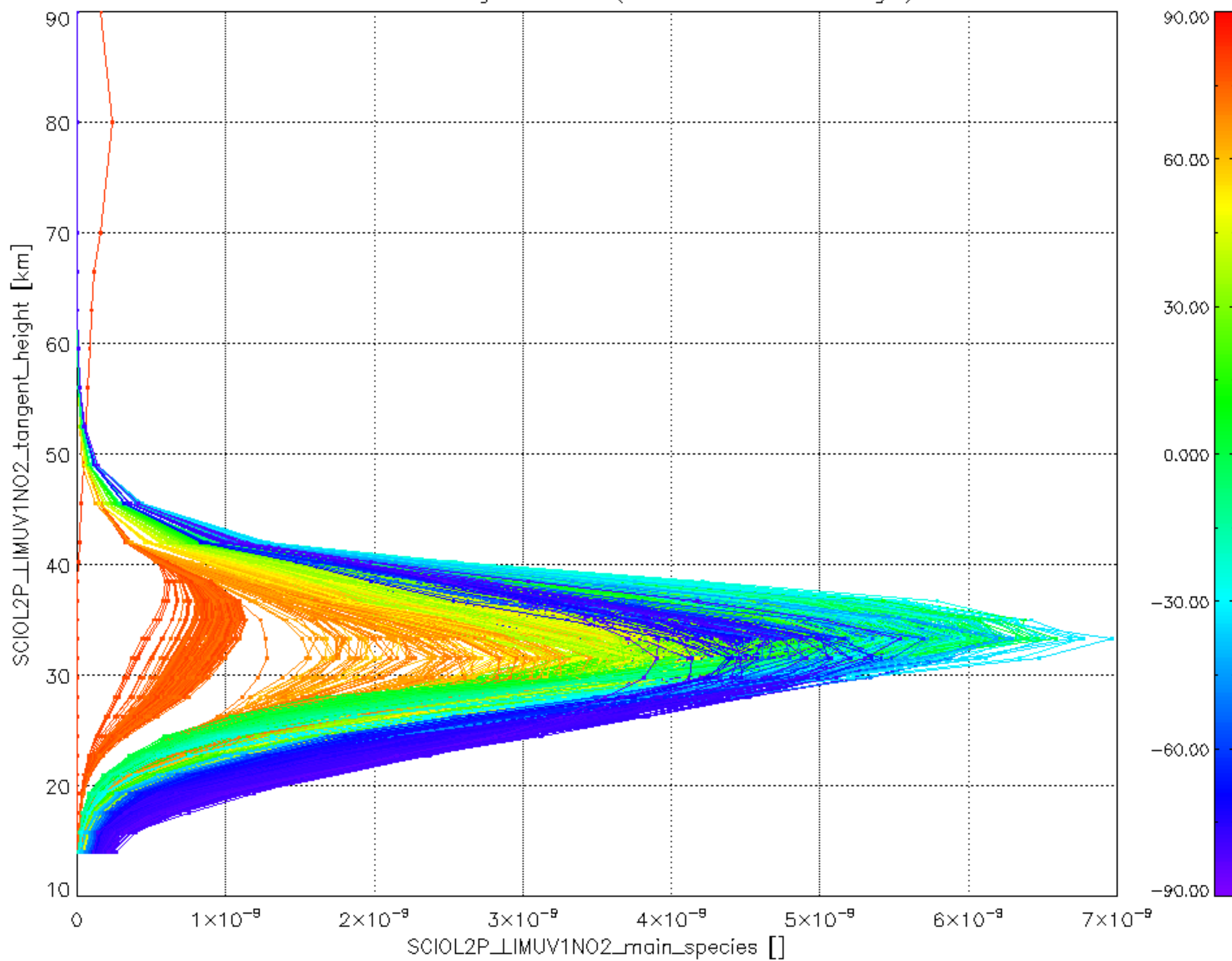
SCIOL2P_NADIR3CO_vcd_err for 24FEB2012 00:00:00 to 25FEB2012 00:00:00



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



Plot of SCIOL2P_LIMUV1N02_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



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

