

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	22FEB2012 03:21:21
Data source version	SCIA-OL/5.02-W
Processing scope for products	09FEB2012 00:00:00 to 10FEB2012 00:00:00
Start time of first product within scope	09FEB2012 01:49:34
Stop time of last product within scope	10FEB2012 00:31:20
Total number of level 2 products	14
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__2PWDPA20120209_014934_000035163111_00276_52014_3450.N1	09FEB2012 01:49:34	09FEB2012 02:48:10	0	GOOD
1	SCI_OL__2PWDPA20120209_032947_000035303111_00277_52015_3449.N1	09FEB2012 03:29:47	09FEB2012 04:28:38	0	GOOD
2	SCI_OL__2PWDPA20120209_051001_000035163111_00278_52016_3451.N1	09FEB2012 05:10:01	09FEB2012 06:08:37	0	GOOD
3	SCI_OL__2PWDPA20120209_065015_000035303111_00279_52017_3452.N1	09FEB2012 06:50:15	09FEB2012 07:49:05	0	GOOD
4	SCI_OL__2PWDPA20120209_083028_000035163111_00280_52018_3454.N1	09FEB2012 08:30:28	09FEB2012 09:29:04	0	GOOD

5	SCI_OL__2PWDPA20120209_101041_000035303111_00281_52019_3455.N1	09FEB2012 10:10:41	09FEB2012 11:09:32	0	GOOD
6	SCI_OL__2PWDPA20120209_115055_000035163111_00282_52020_3456.N1	09FEB2012 11:50:55	09FEB2012 12:49:31	0	GOOD
7	SCI_OL__2PWDPA20120209_133108_000035303111_00283_52021_3457.N1	09FEB2012 13:31:08	09FEB2012 14:29:59	0	GOOD
8	SCI_OL__2PWDPA20120209_151122_000035163111_00284_52022_3458.N1	09FEB2012 15:11:22	09FEB2012 16:09:58	0	GOOD
9	SCI_OL__2PWDPA20120209_165135_000035303111_00285_52023_3459.N1	09FEB2012 16:51:35	09FEB2012 17:50:26	0	GOOD
10	SCI_OL__2PWDPA20120209_183256_000034863111_00286_52024_3460.N1	09FEB2012 18:32:56	09FEB2012 19:31:03	0	GOOD
11	SCI_OL__2PWDPA20120209_201223_000035303111_00287_52025_3461.N1	09FEB2012 20:12:23	09FEB2012 21:11:14	0	GOOD
12	SCI_OL__2PWDPA20120209_215216_000035163111_00288_52026_3462.N1	09FEB2012 21:52:16	09FEB2012 22:50:52	0	GOOD
13	SCI_OL__2PWDPA20120209_233229_000035303111_00289_52027_3463.N1	09FEB2012 23:32:29	10FEB2012 00:31:20	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: 151639

Total number of cloud data DSRs with good quality flag (=0): 151639 (100.0 %)

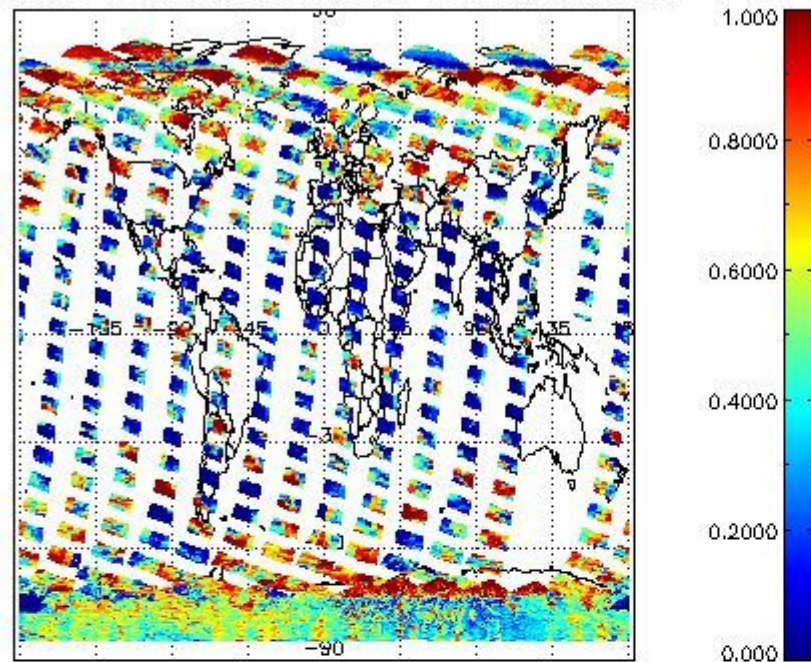
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	151639	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	151639	0.16641	0.12500	0.12500	0.25000	0.058836	s
CL_FRAC	151639	0.45588	0.44471	0.0000	1.0000	0.30911	
CL_FRAC_ERR	151639	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	151639	5.3252	4.0000	4.0000	8.0000	1.8827	
PMD_READ_CL[0]	151639	0.55472	0.0000	0.0000	8.0000	1.4302	-
PMD_READ_CL[1]	151639	1.0607	0.0000	0.0000	8.0000	2.3561	-
CL_TOP_HEIGHT	120520	3.8480	2.7208	0.0000	17.000	3.6951	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	120520	53.620	43.880	0.0000	101.00	40.175	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	151639	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	151639	11001011	11000100	11000000	11100000	3456.9	
AERO_ABSO_IND	151639	0.10230	0.0000	0.0000	5.6397	0.31762	
AERO_IND_DIAG	151639	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	151639	01010110	00000000	00000000	11000000	24452.	

Time and geolocation plots:

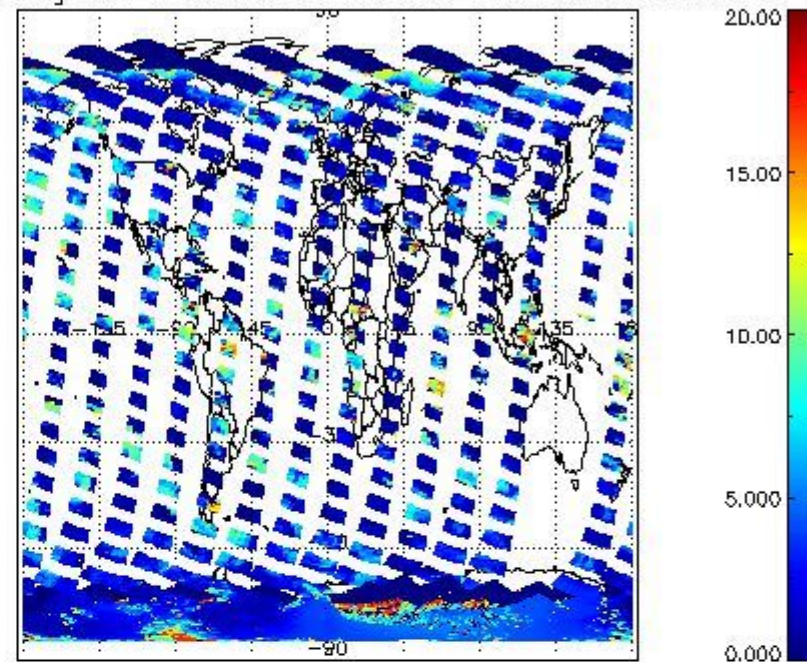
Plots are available for the following parameters:

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

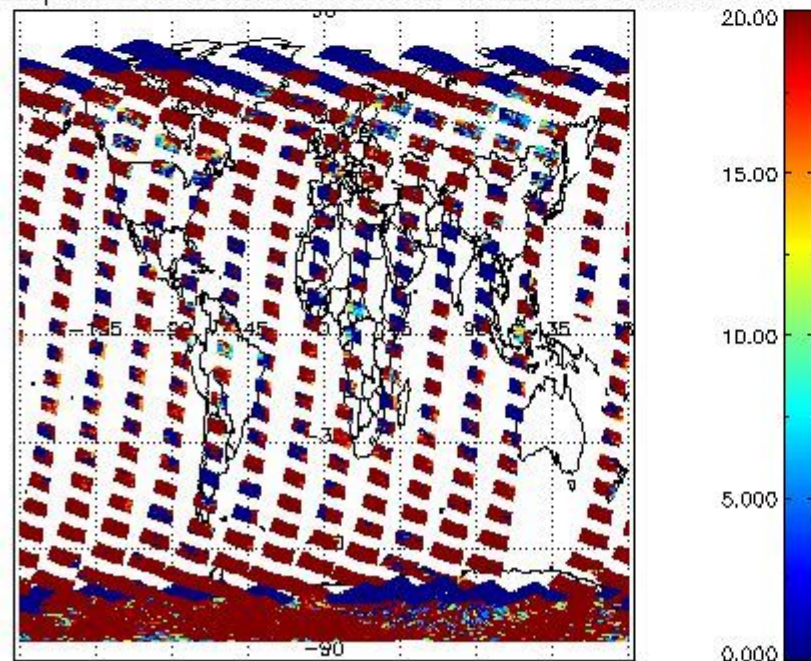
cL_frae for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



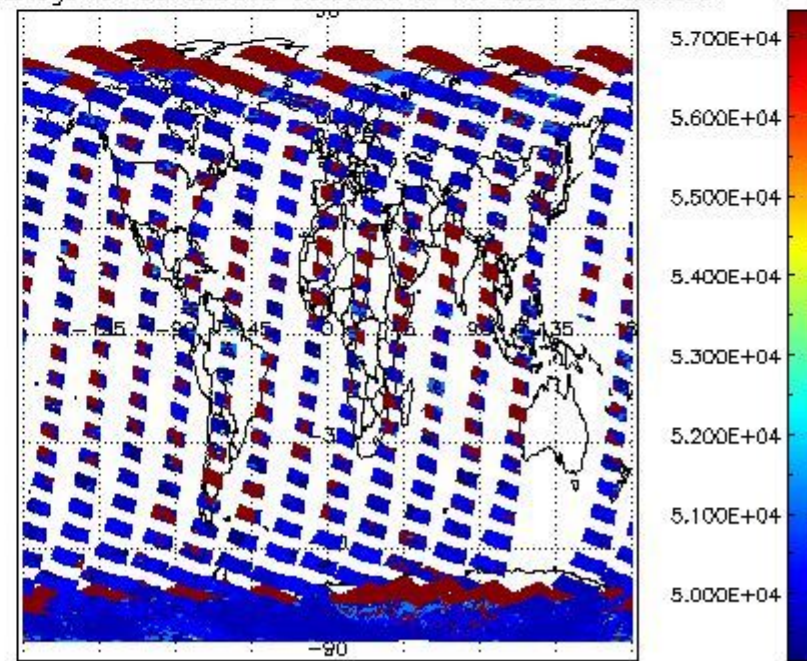
cL_top_height for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



cL_opt_depth for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



cloud_flags for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



2.2.2 Nadir

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

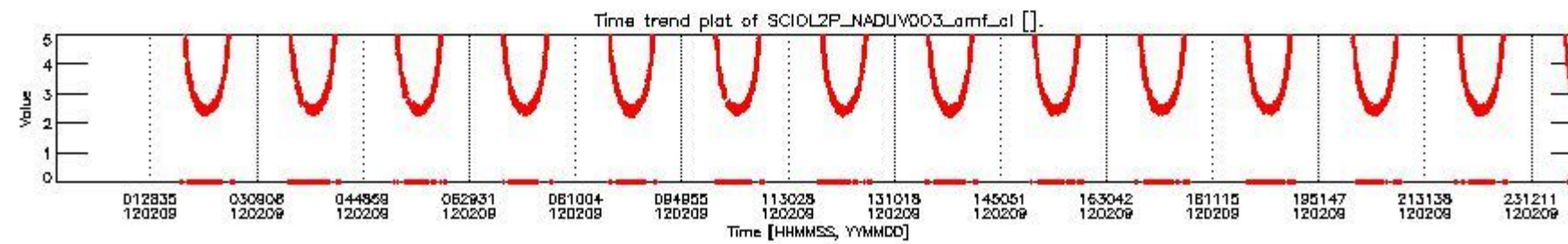
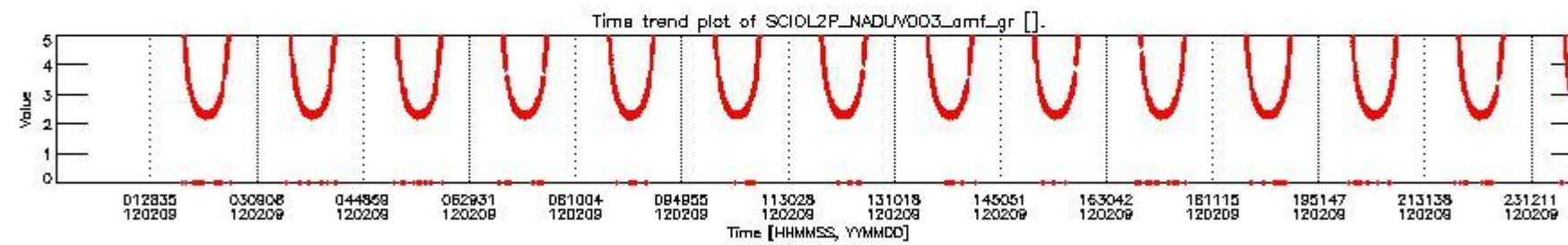
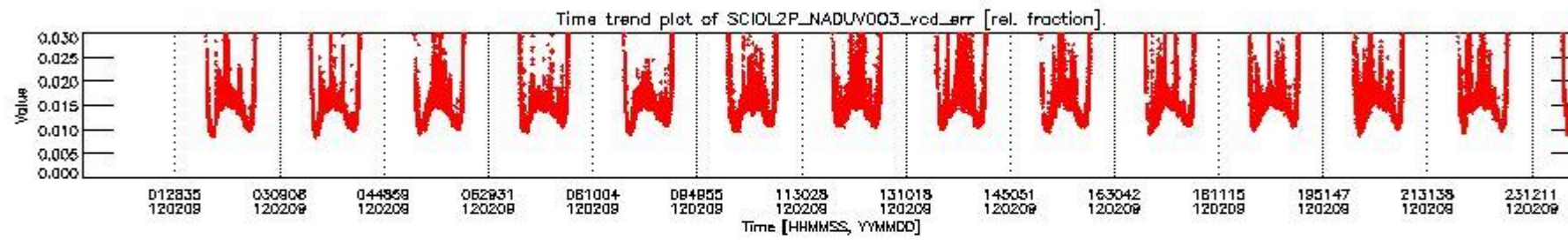
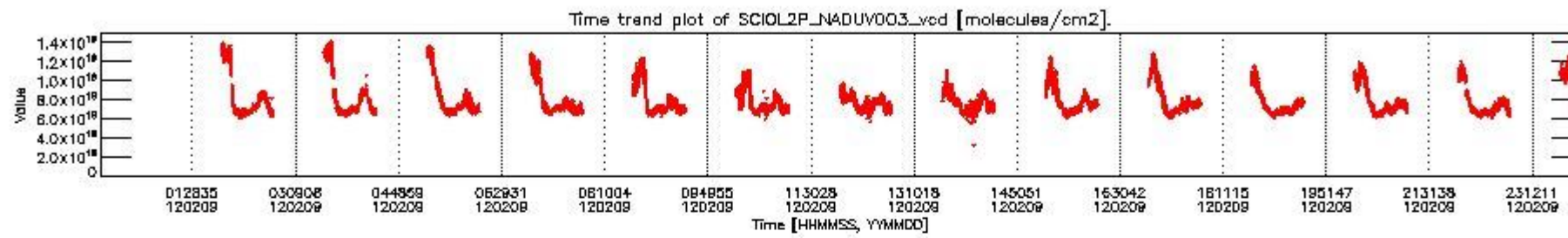
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

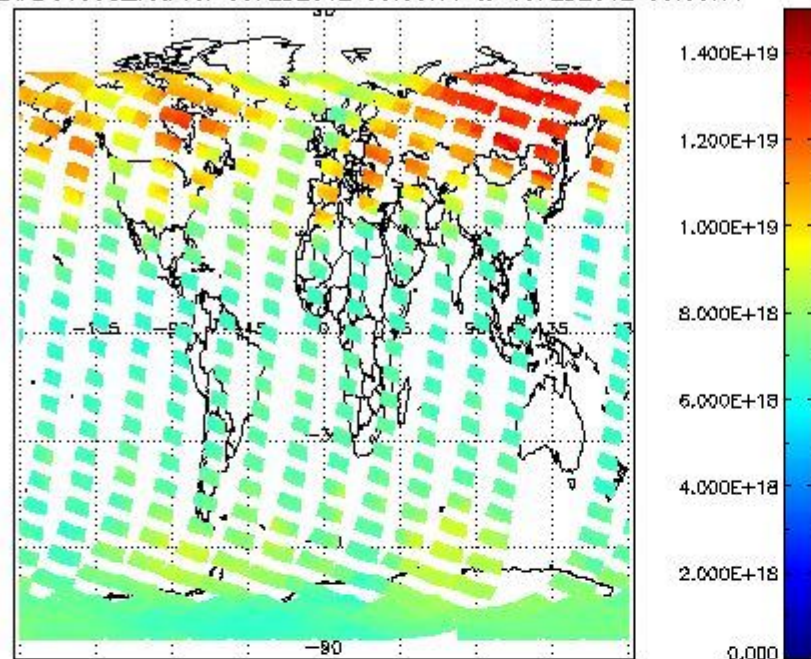
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

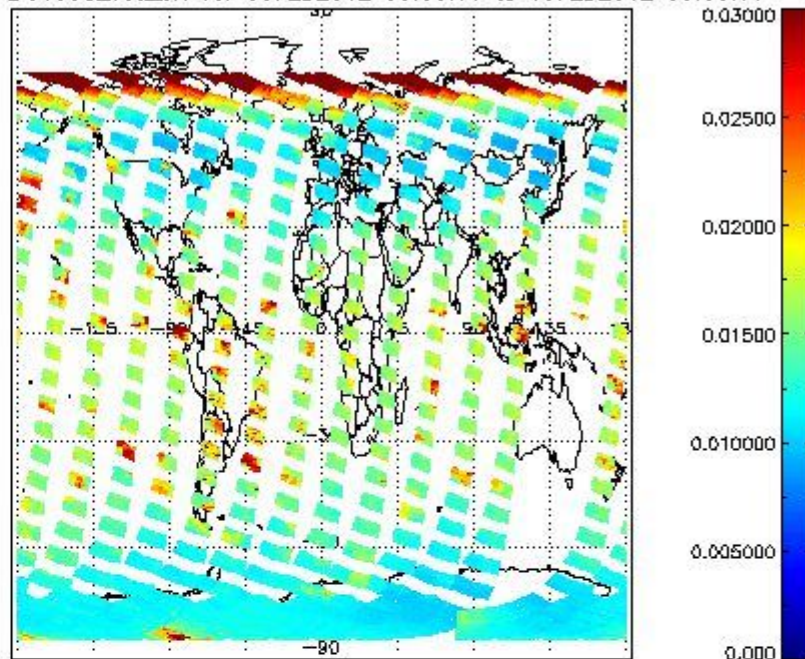
2.2.2.1 O3 (UV0)



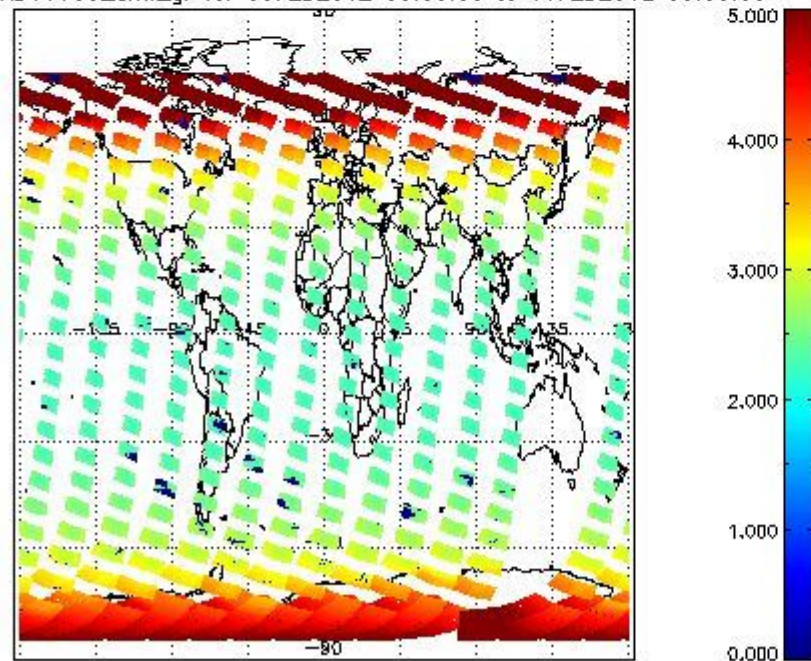
SCIOL2P_NADUV003_vcd for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



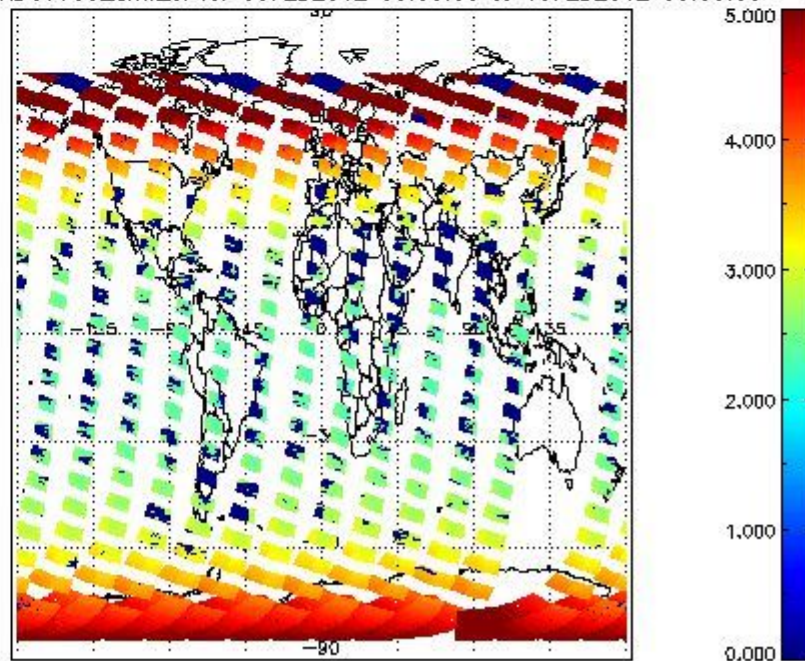
SCIOL2P_NADUV003_vcd_err for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



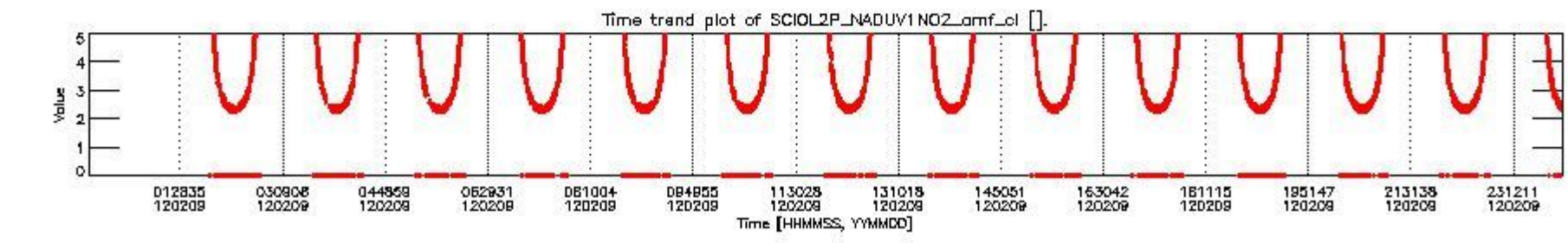
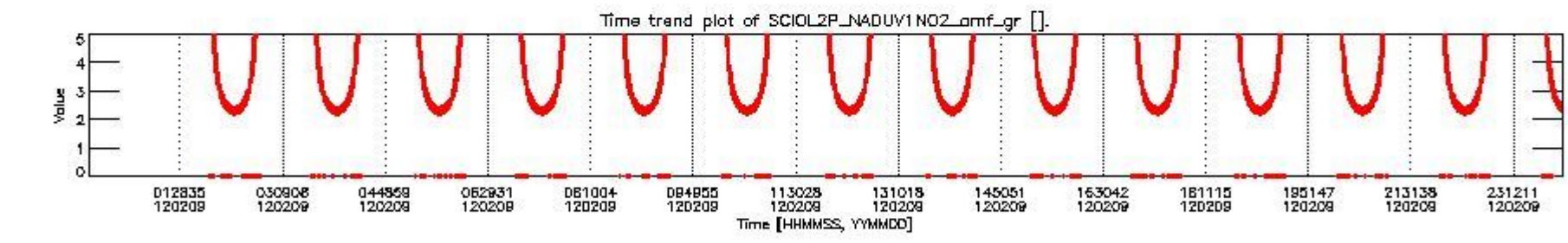
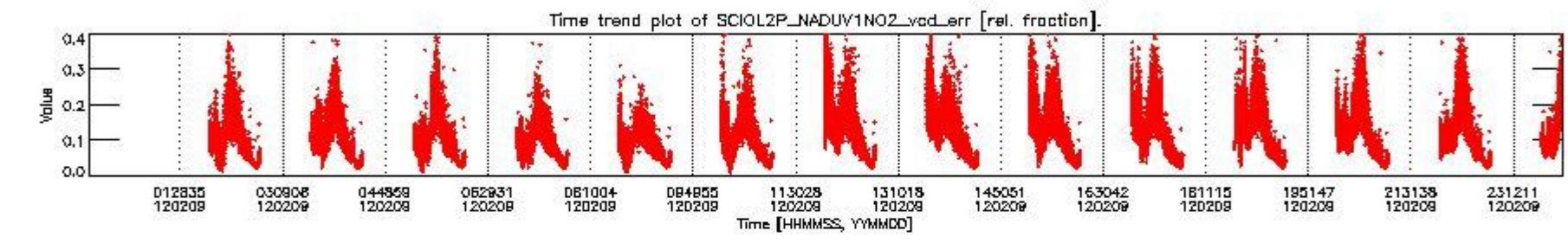
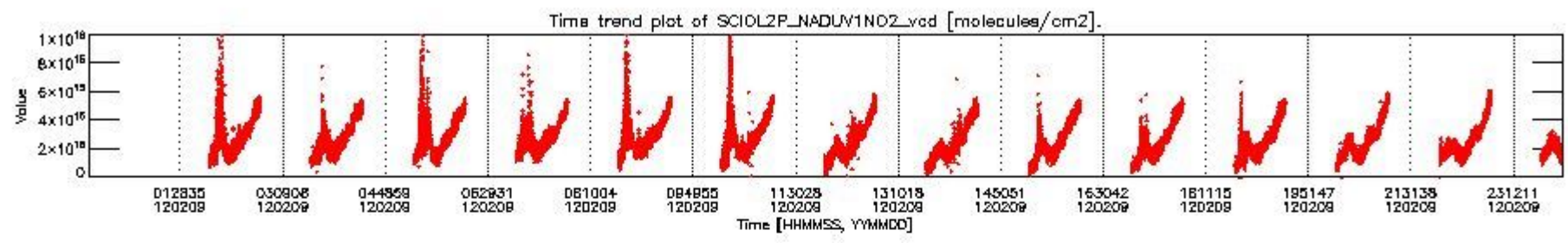
SCIOL2P_NADUV003_amf_gr for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



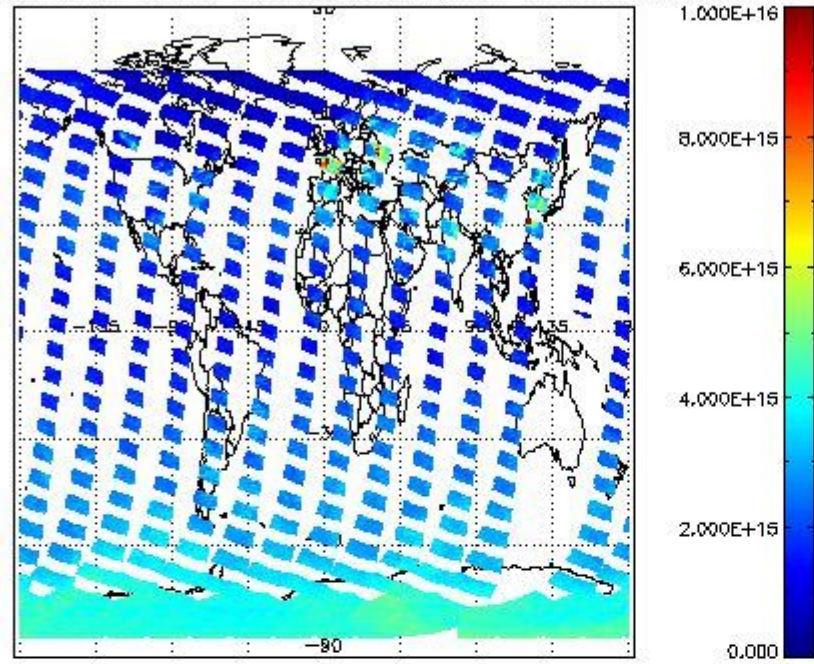
SCIOL2P_NADUV003_amf_cl for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



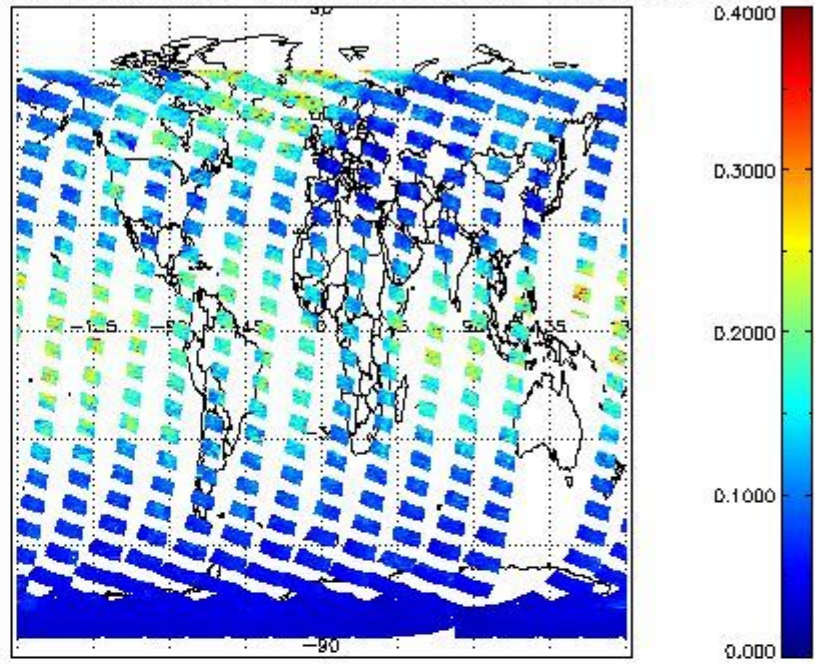
2.2.2.2 NO2 (UV1)



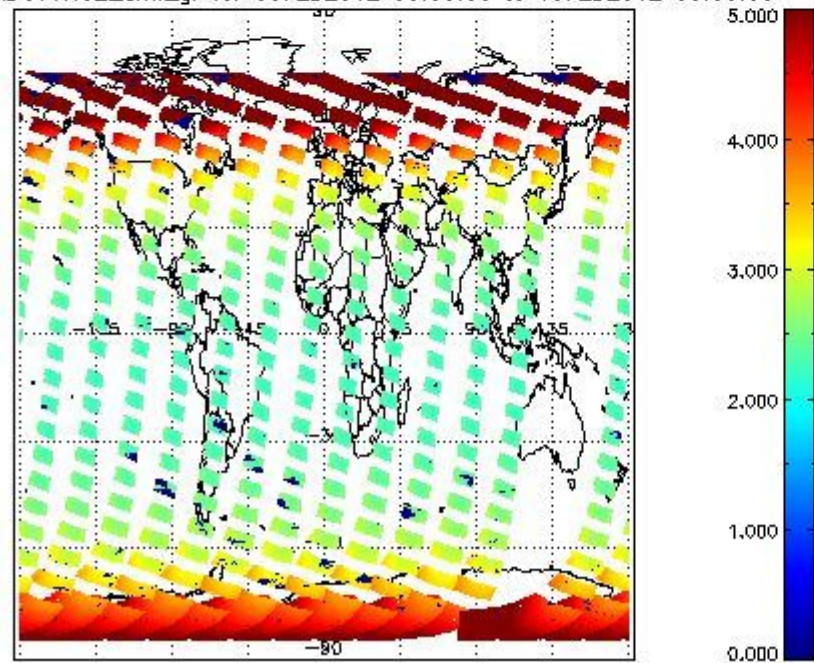
SCIOL2P_NADUV1N02_vcd for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



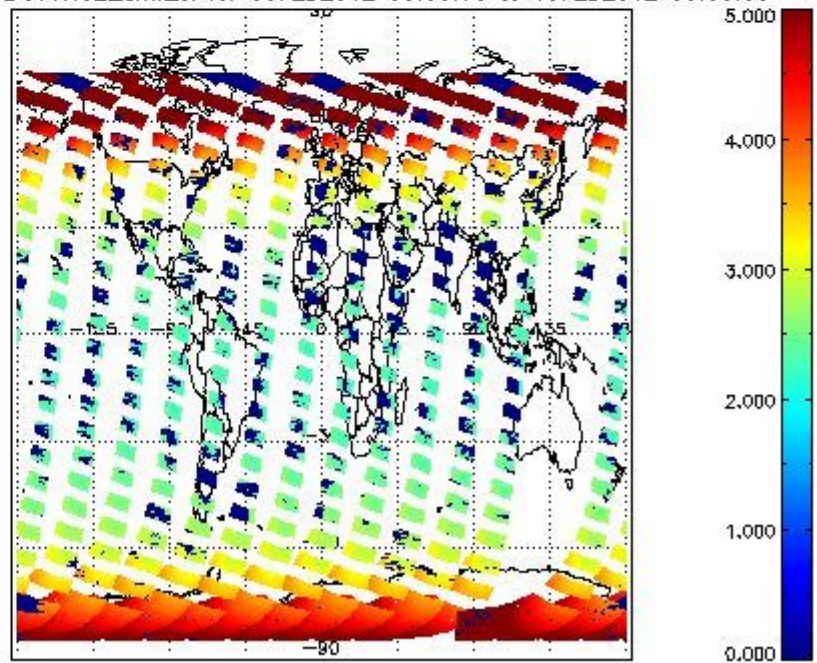
SCIOL2P_NADUV1N02_vcd_err for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



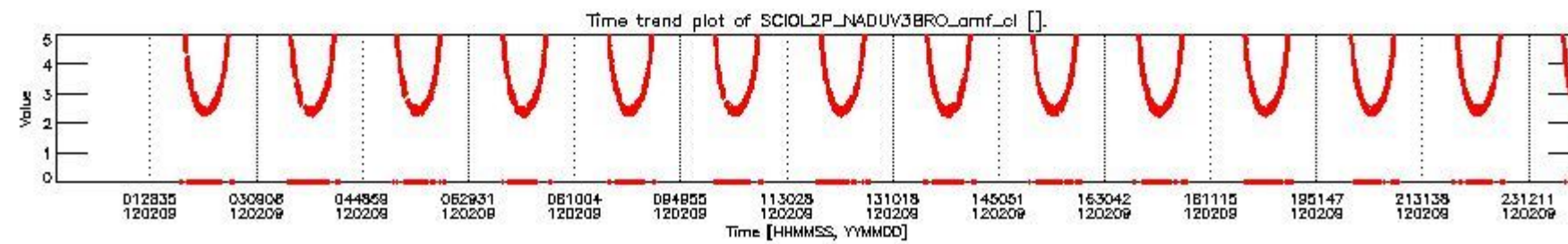
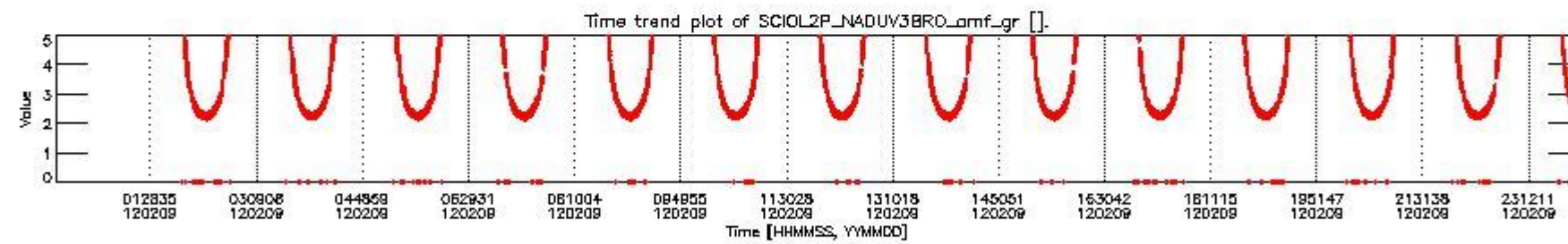
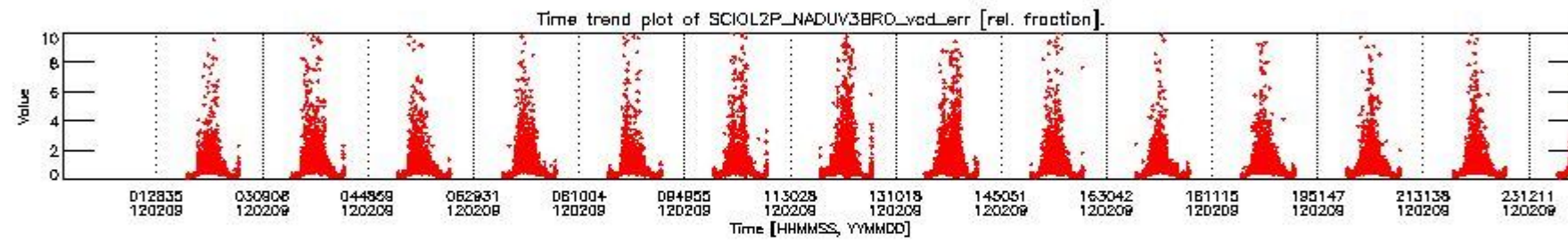
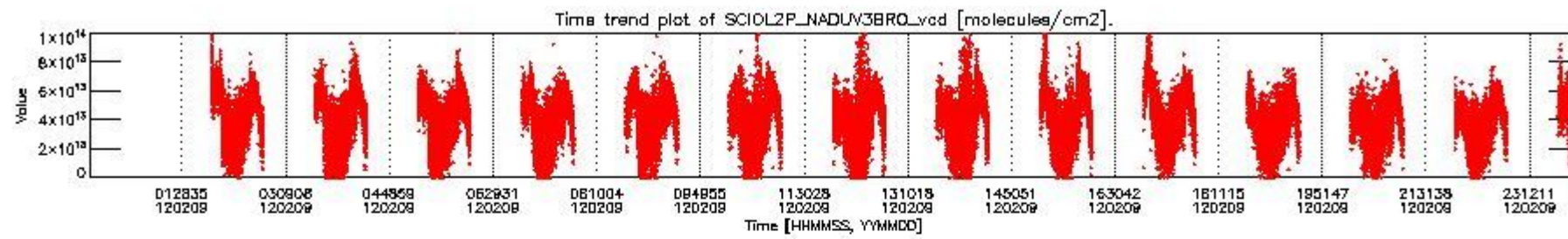
SCIOL2P_NADUV1N02_amf_gr for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



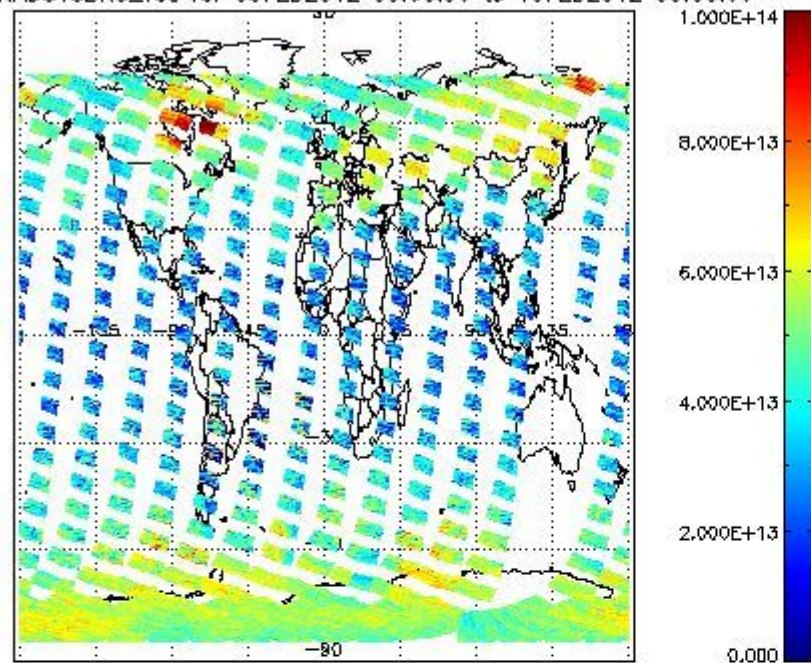
SCIOL2P_NADUV1N02_amf_cl for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



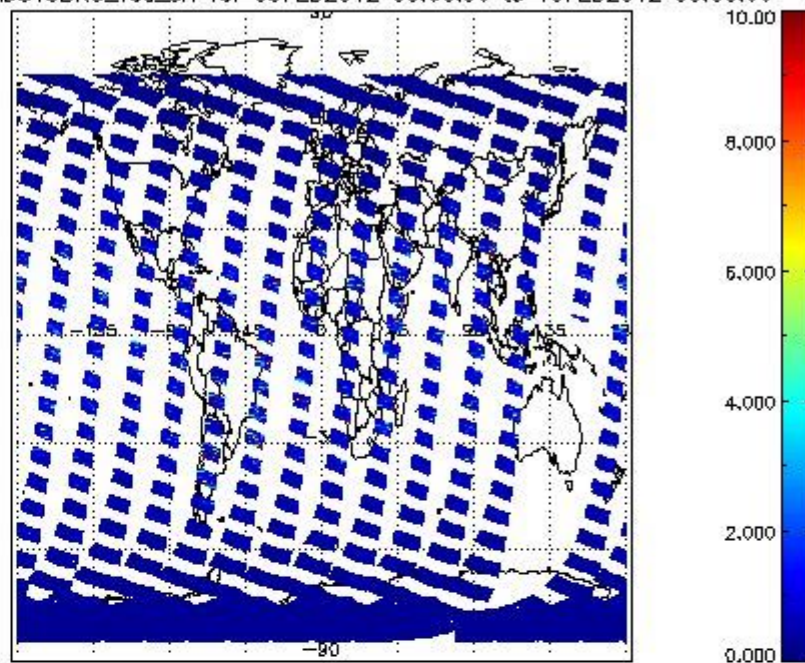
2.2.2.3 Bro (UV3)



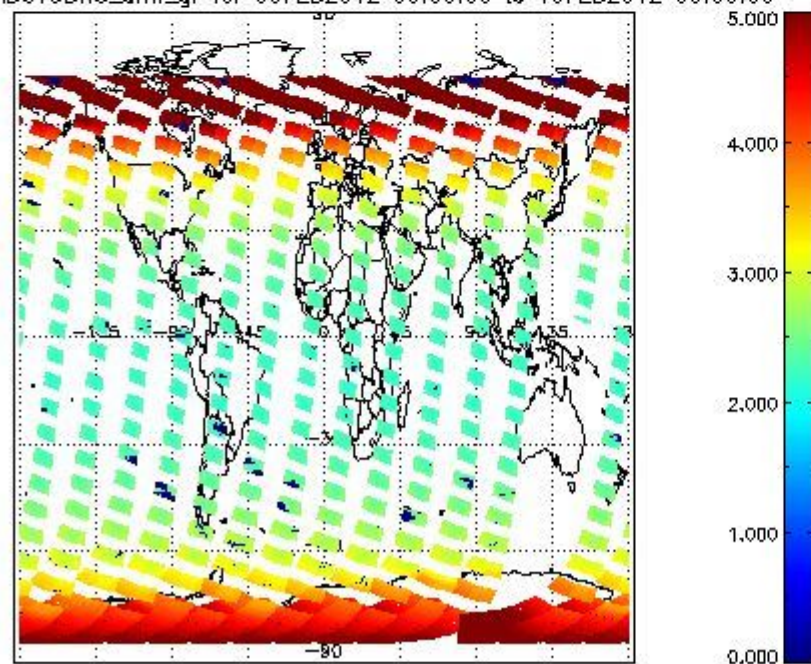
SCIOL2P_NADUV3BRO_vcd for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



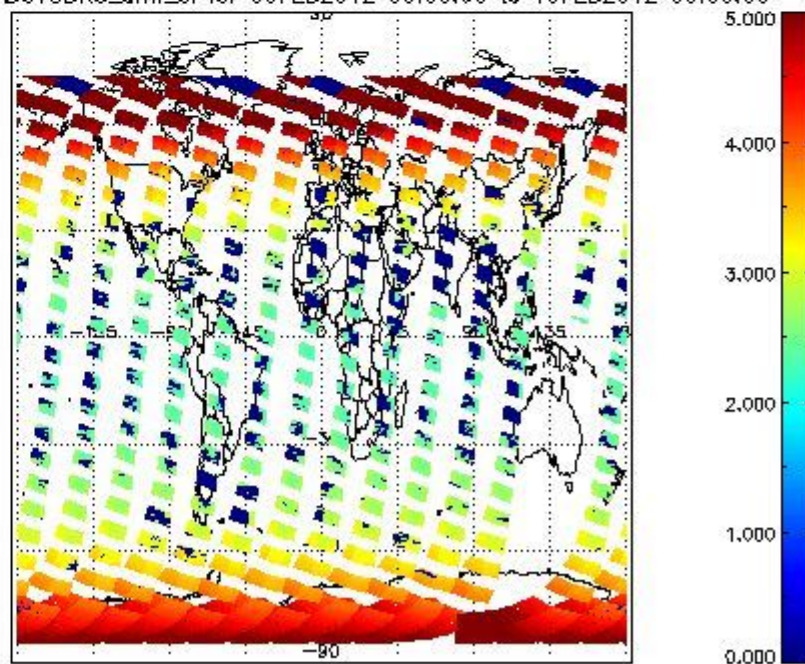
SCIOL2P_NADUV3BRO_vcd_err for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



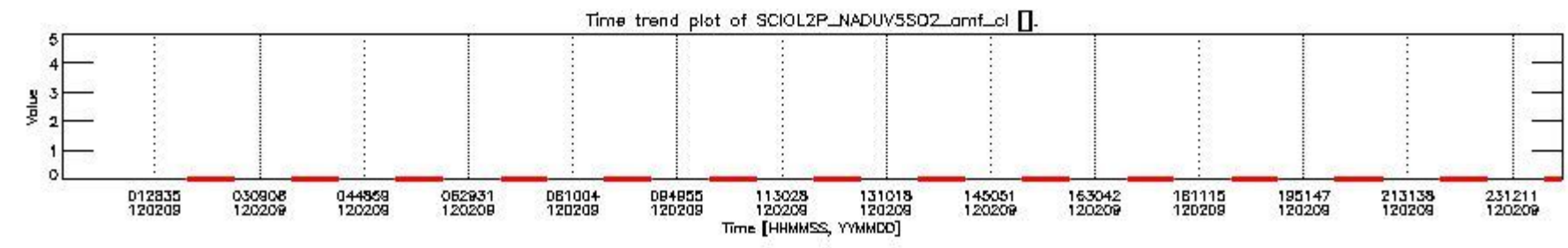
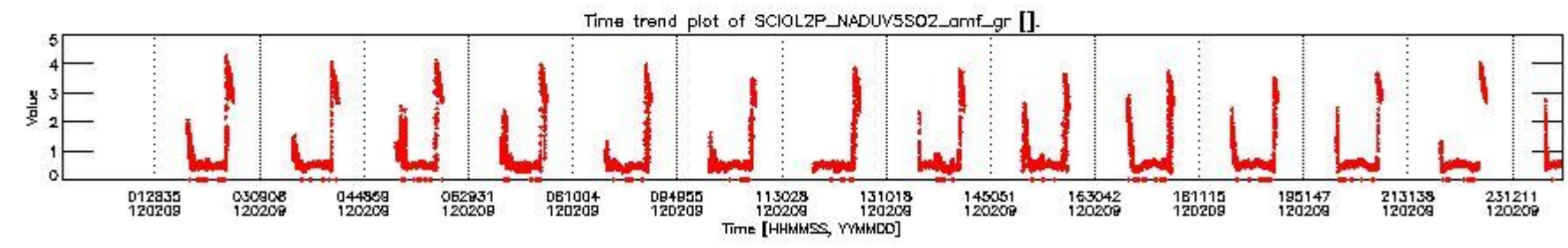
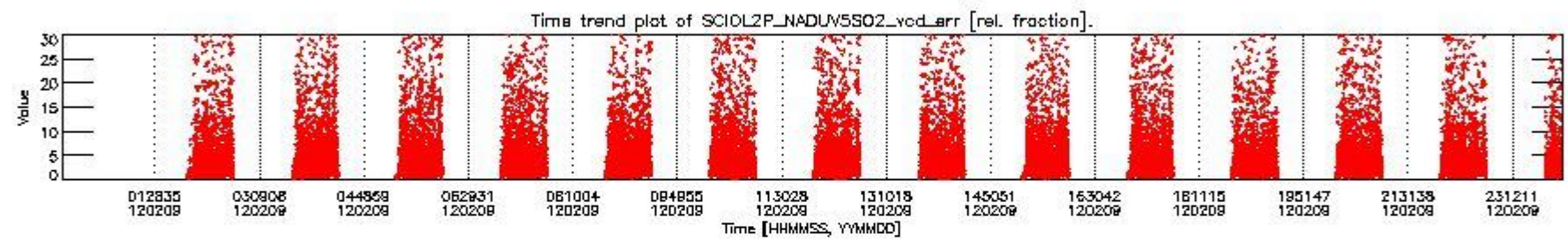
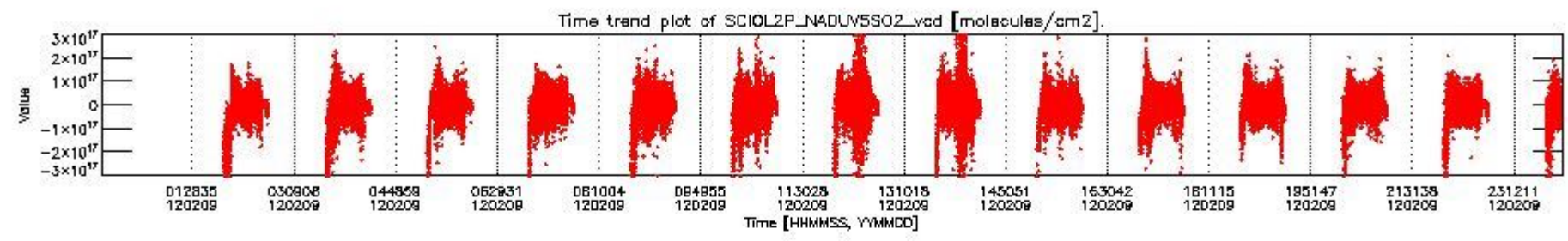
SCIOL2P_NADUV3BRO_amf_gr for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



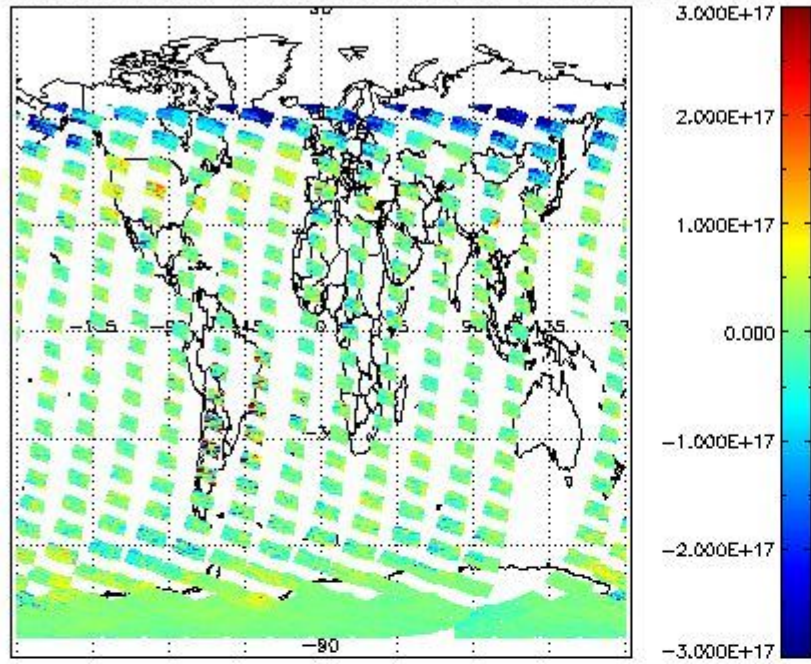
SCIOL2P_NADUV3BRO_amf_cl for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



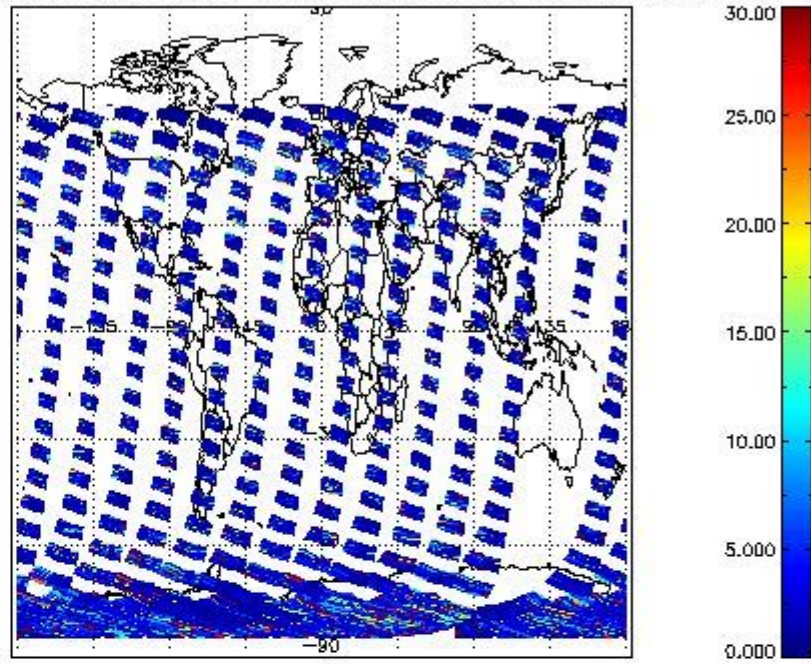
2.2.2.4 SO2 (UV5)



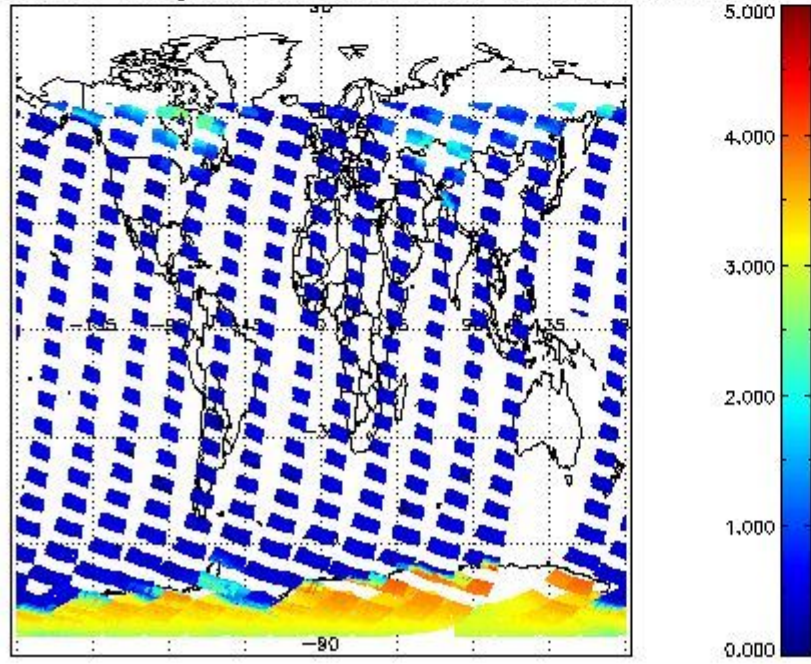
SCIOL2P_NADUV5SO2_vcd for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



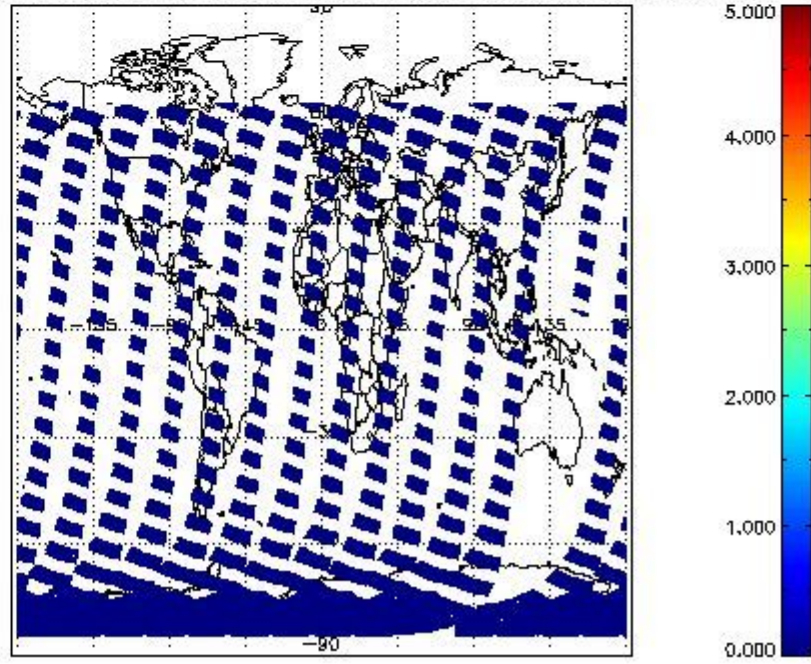
SCIOL2P_NADUV5SO2_vcd_err for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



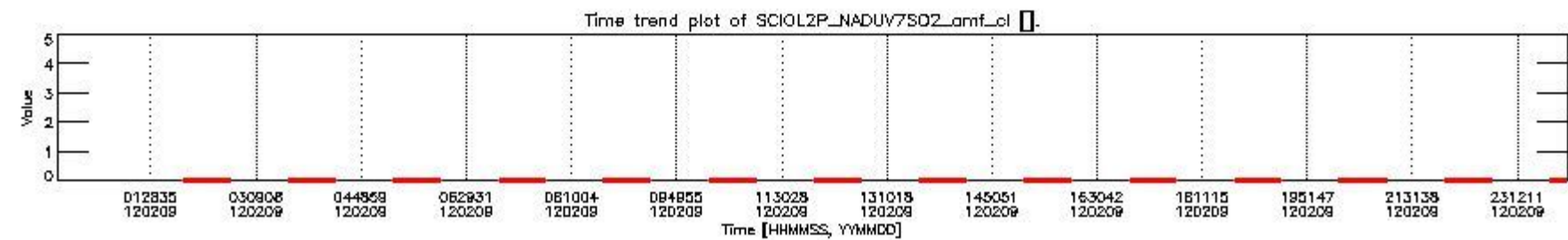
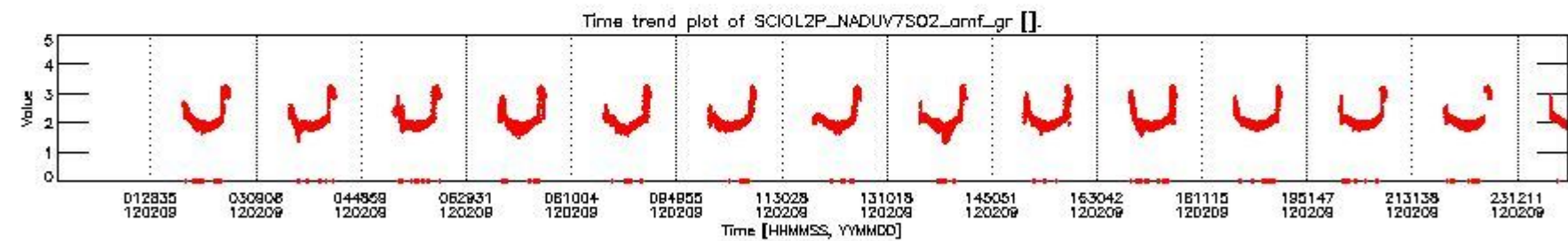
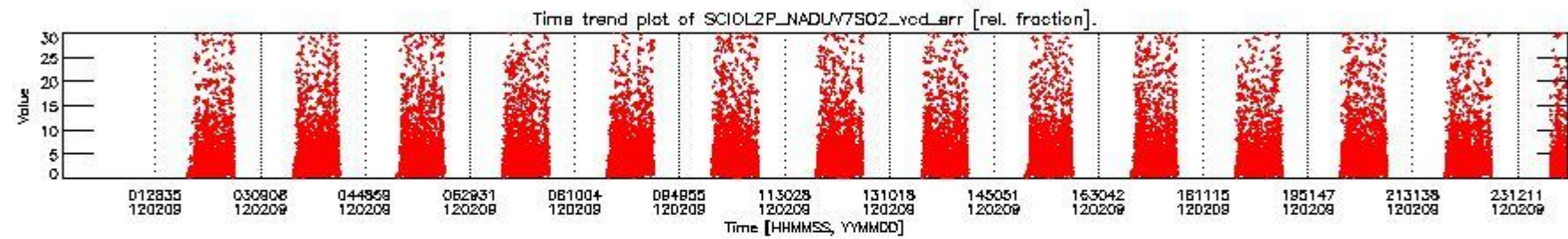
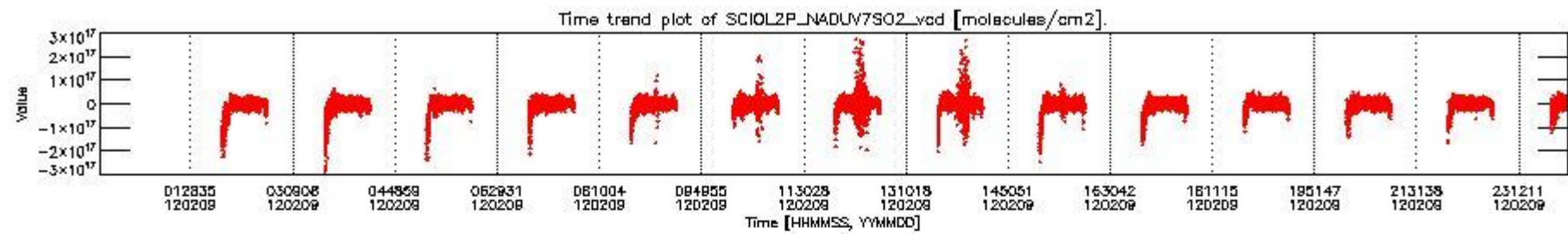
SCIOL2P_NADUV5SO2_amf_gr for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



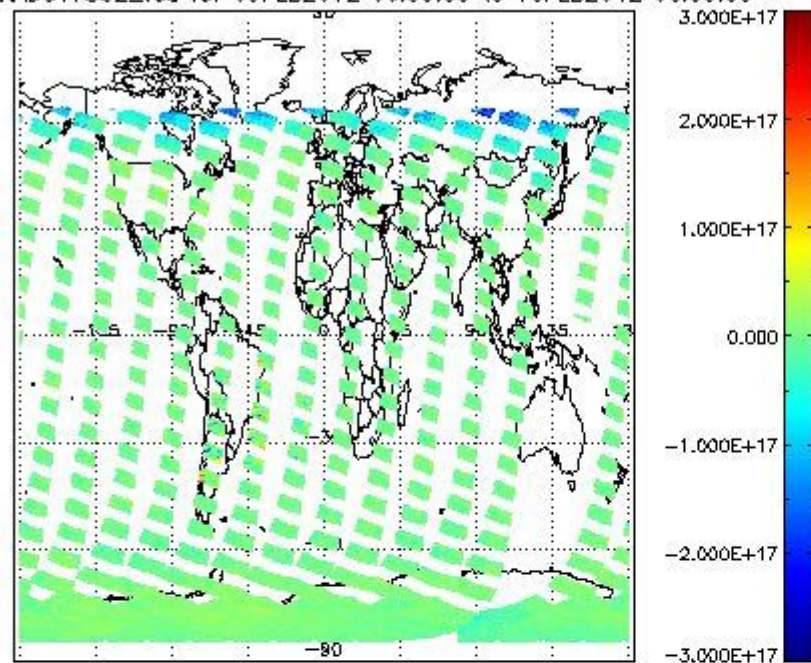
SCIOL2P_NADUV5SO2_amf_cl for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



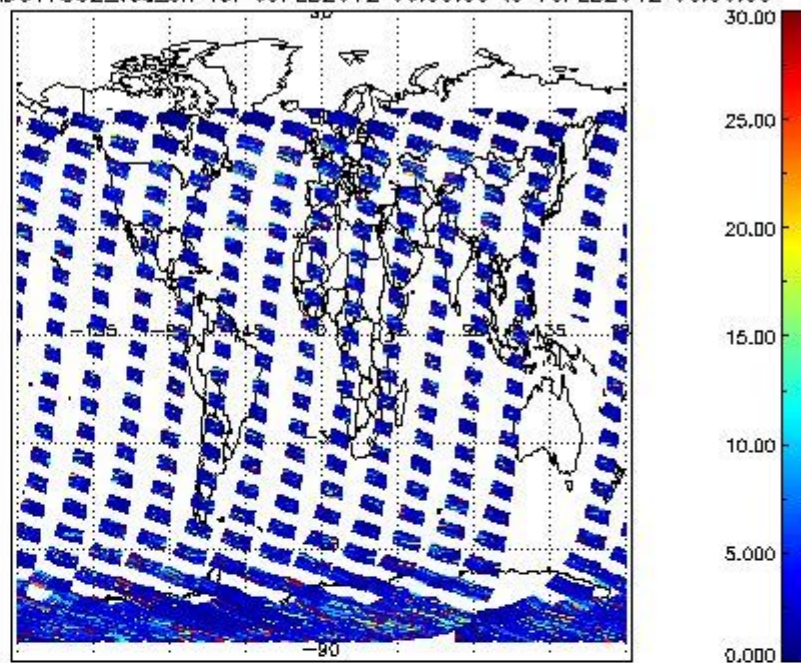
2.2.2.5 SO2 (UV7)



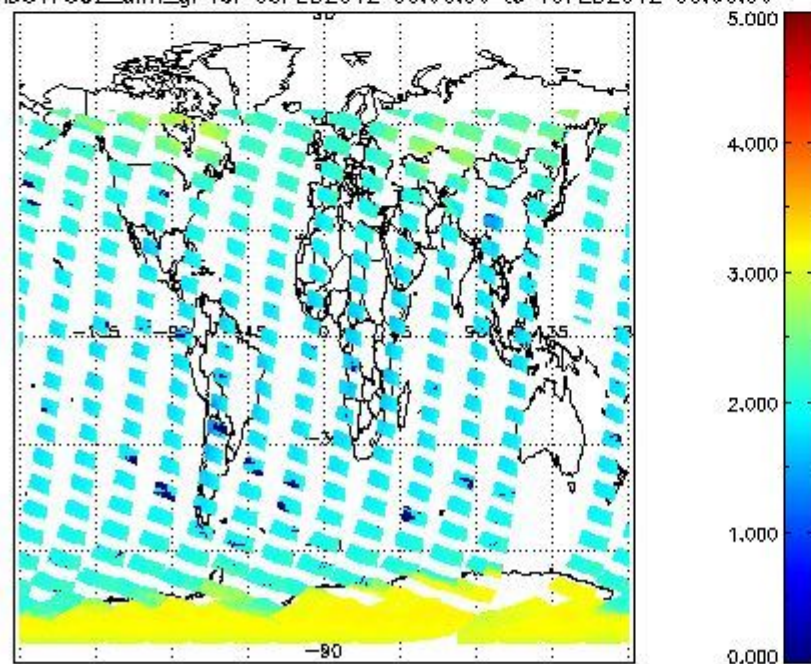
SCIOL2P_NADUV7S02_vcd for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



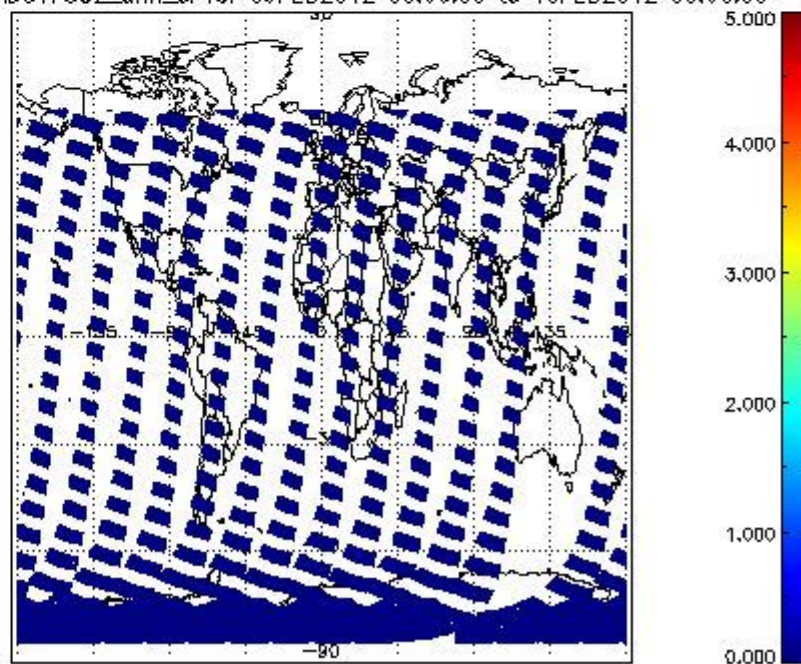
SCIOL2P_NADUV7S02_vcd_err for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



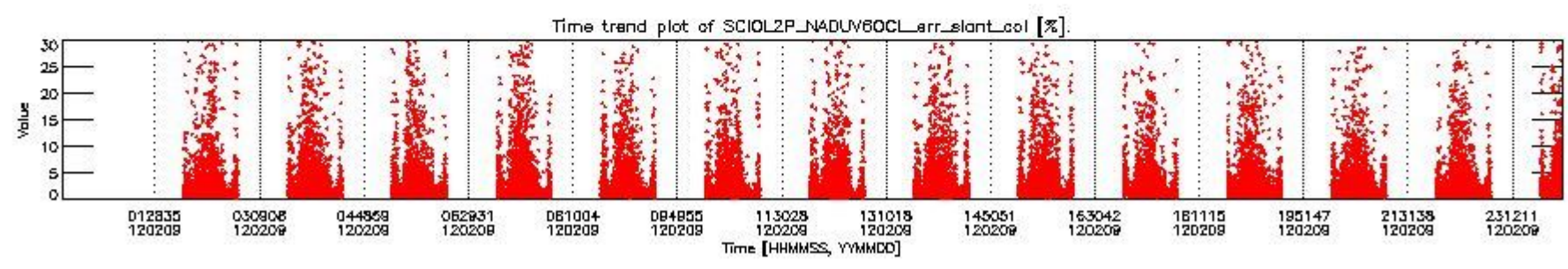
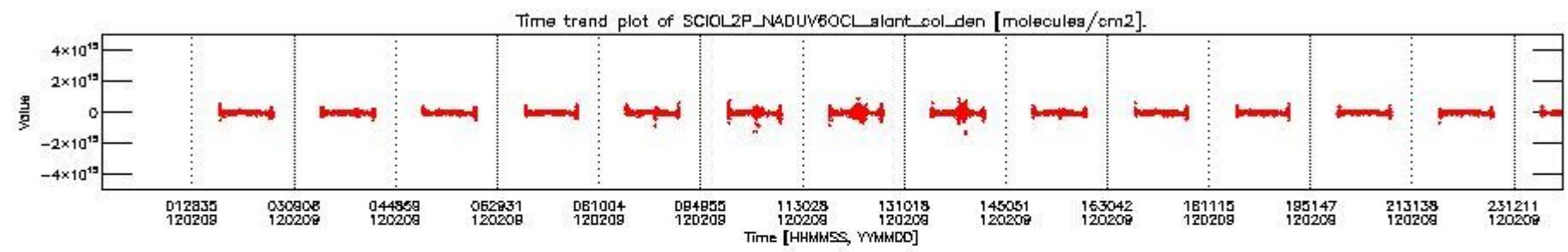
SCIOL2P_NADUV7S02_amf_gr for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



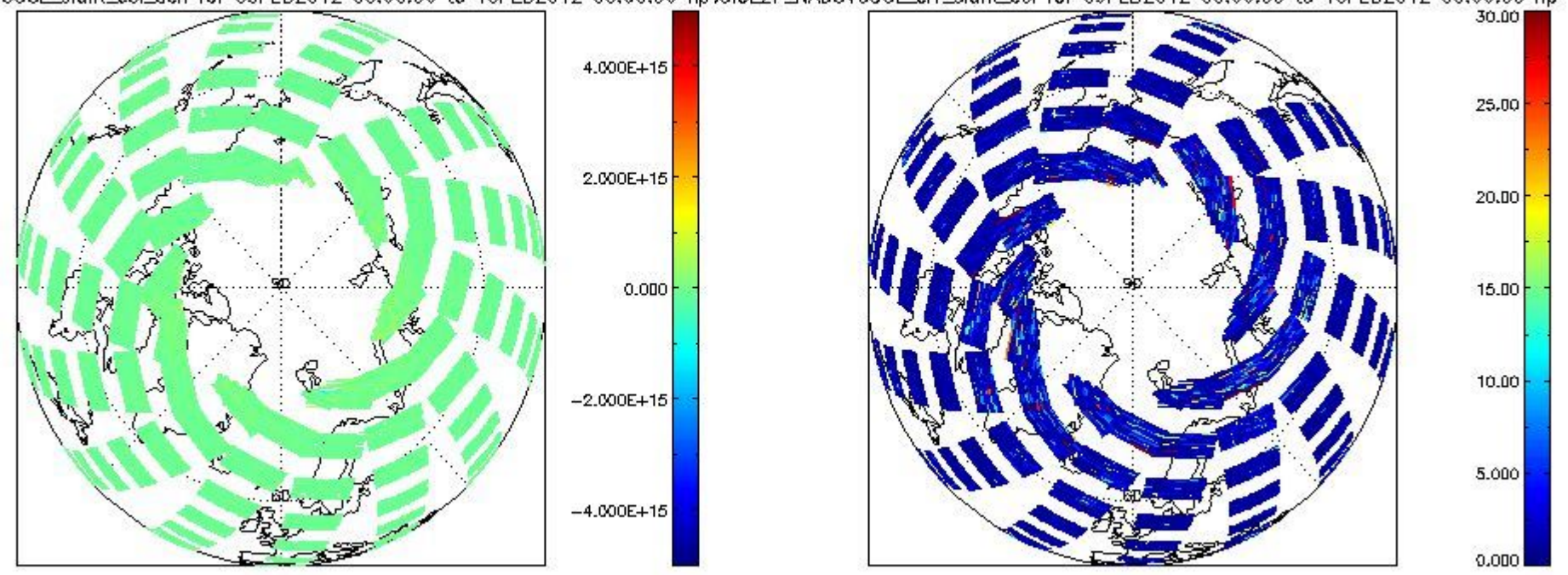
SCIOL2P_NADUV7S02_amf_cl for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



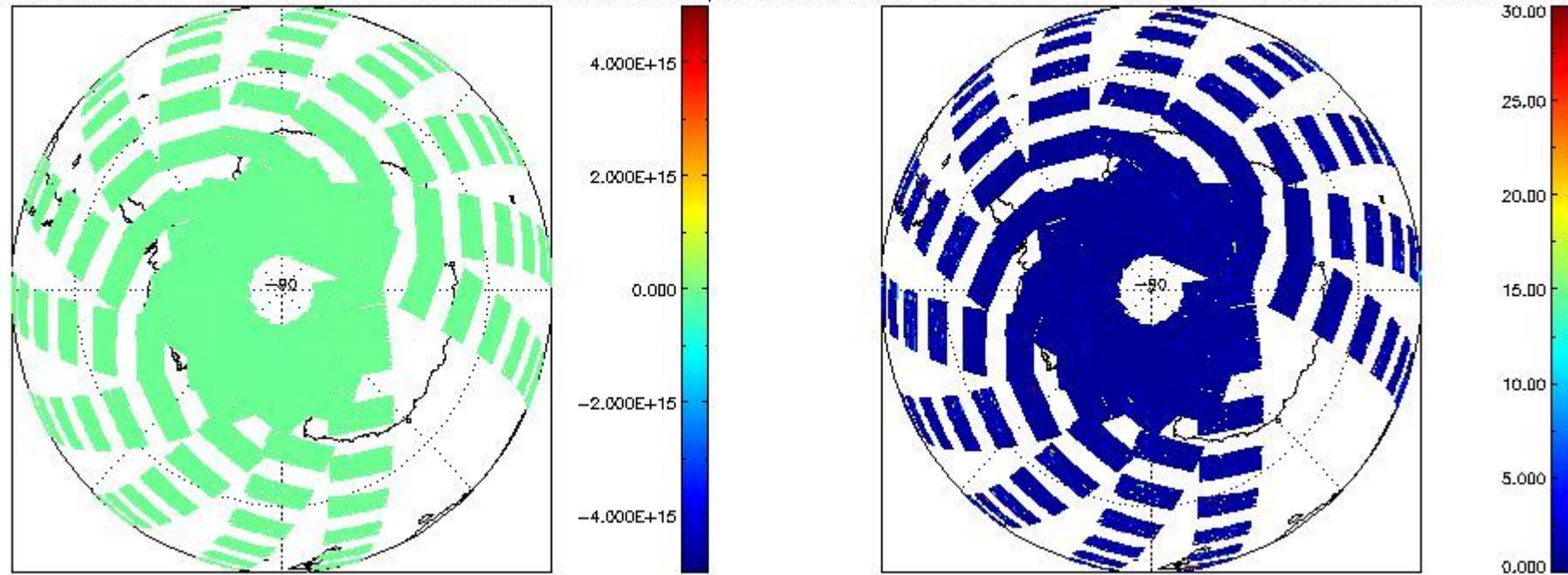
2.2.2.6 OCIO (UV6)



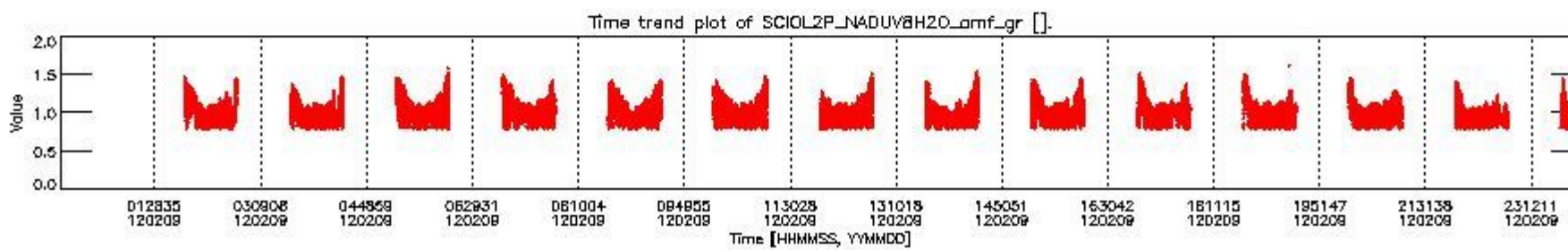
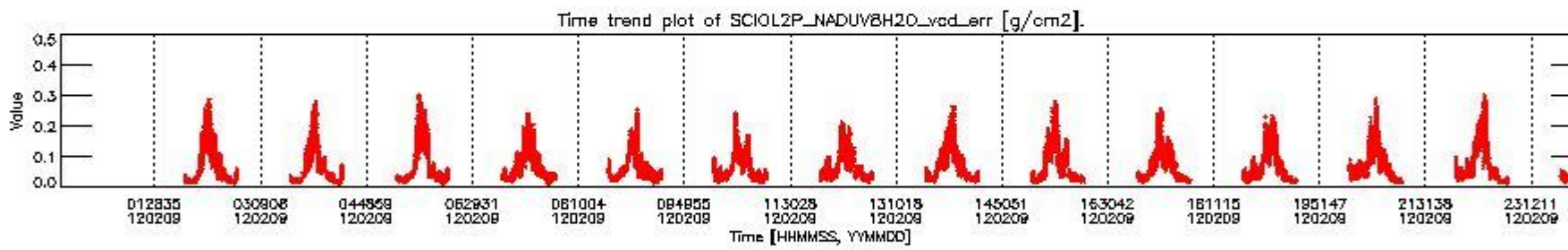
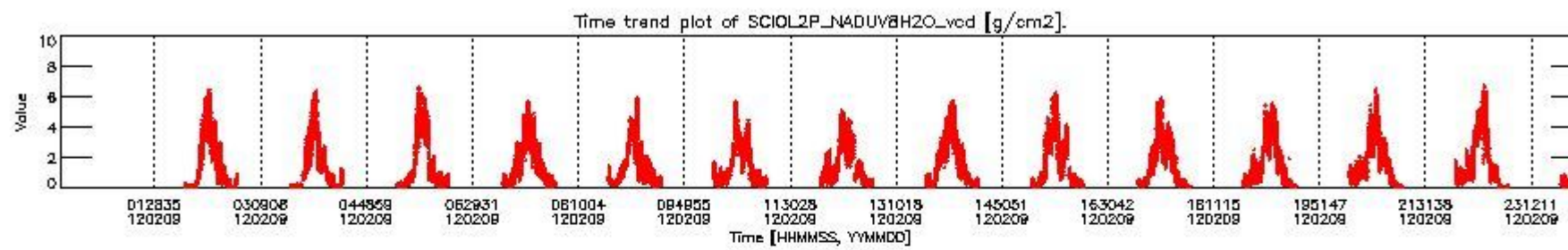
CIOL2P_NADUV6OCL_slant_col_den for 09FEB2012 00:00:00 to 10FEB2012 00:00:00 np; CIOL2P_NADUV6OCL_err_slant_col for 09FEB2012 00:00:00 to 10FEB2012 00:00:00 np



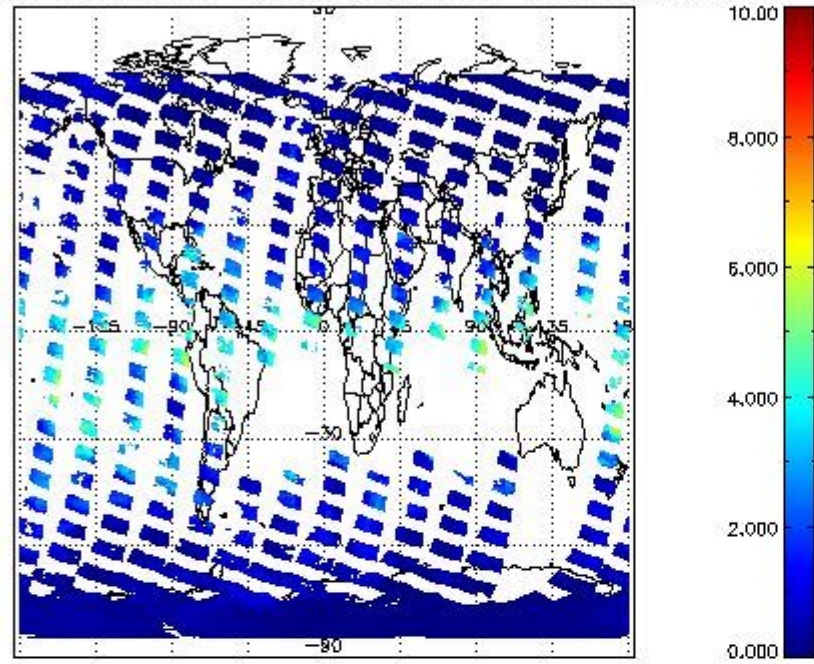
CIOL2P_NADUV60CL_slant_col_den for 09FEB2012 00:00:00 to 10FEB2012 00:00:00 sp;CIOL2P_NADUV60CL_err_slant_col for 09FEB2012 00:00:00 to 10FEB2012 00:00:00 sp



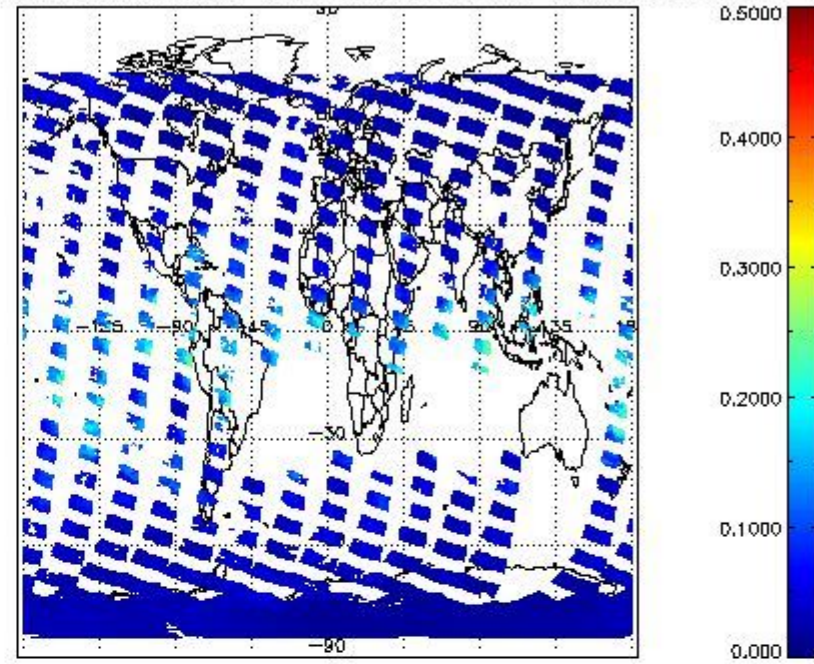
2.2.2.7 H2O (UV8)



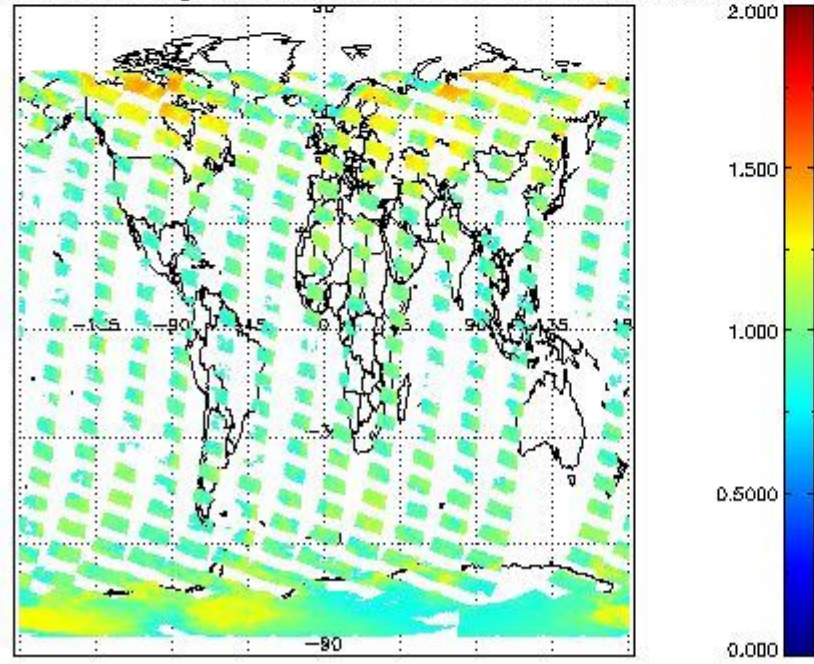
SCIOL2P_NADUV8H2O_vcd for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



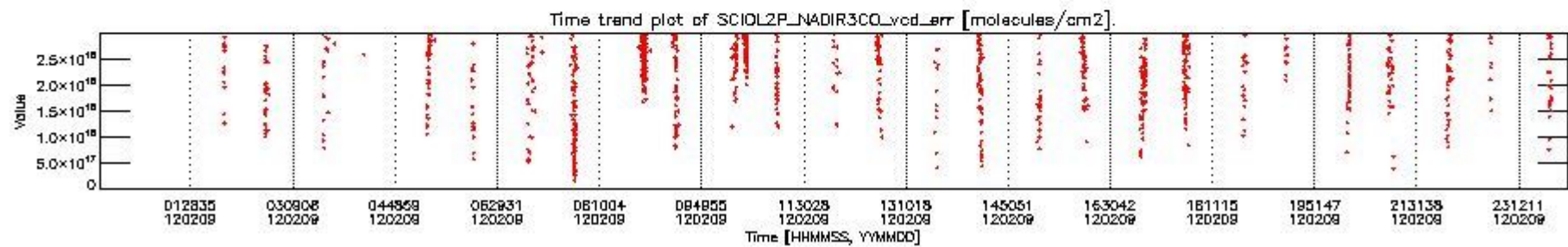
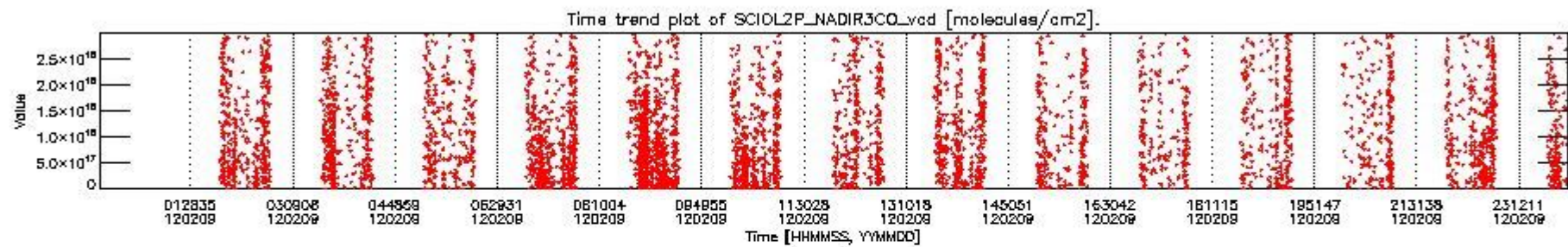
SCIOL2P_NADUV8H2O_vcd_err for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



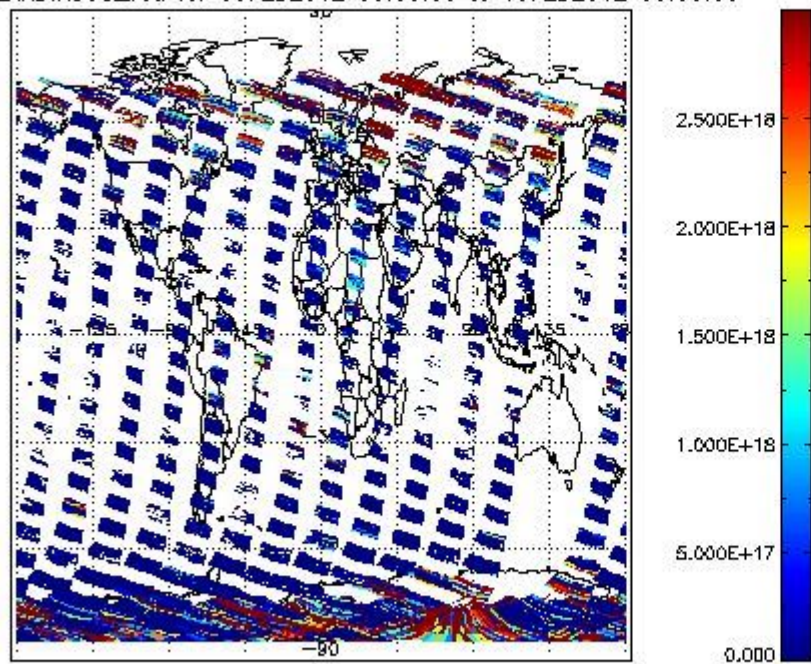
SCIOL2P_NADUV8H2O_amf_gr for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



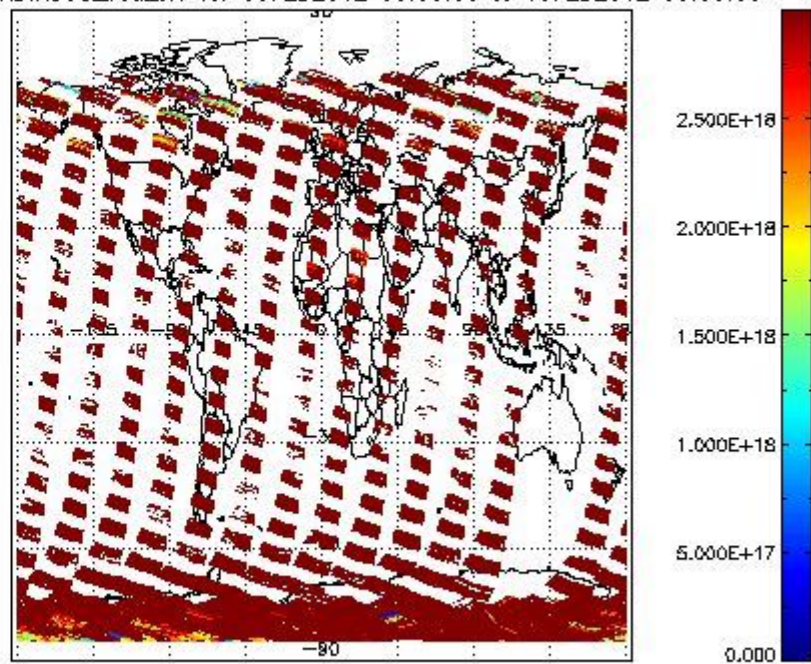
2.2.2.8 CO (IR3)



SCIDL2P_NADIR3CO_vcd for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



SCIDL2P_NADIR3CO_vcd_err for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



2.2.3 Limb

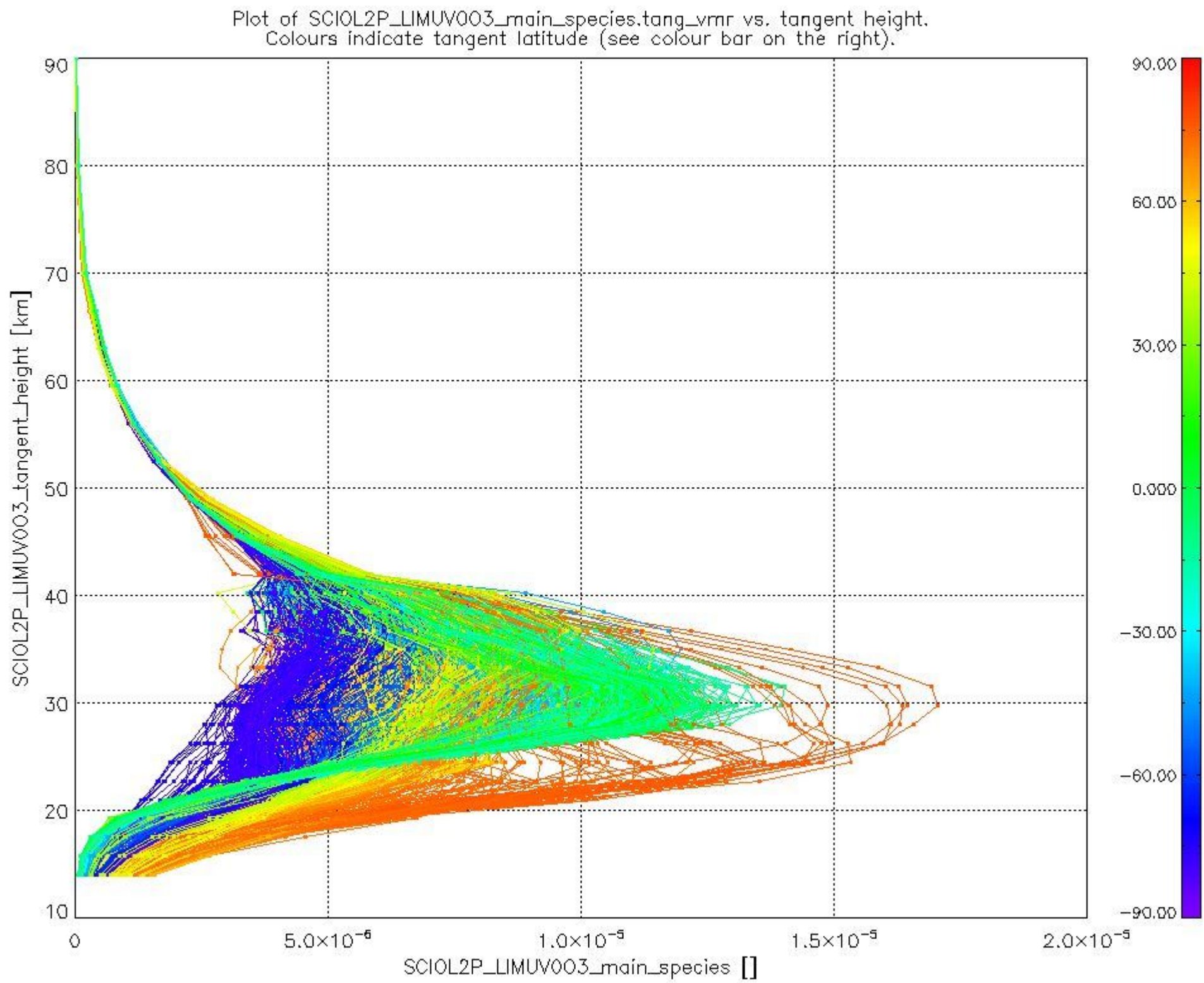
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

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

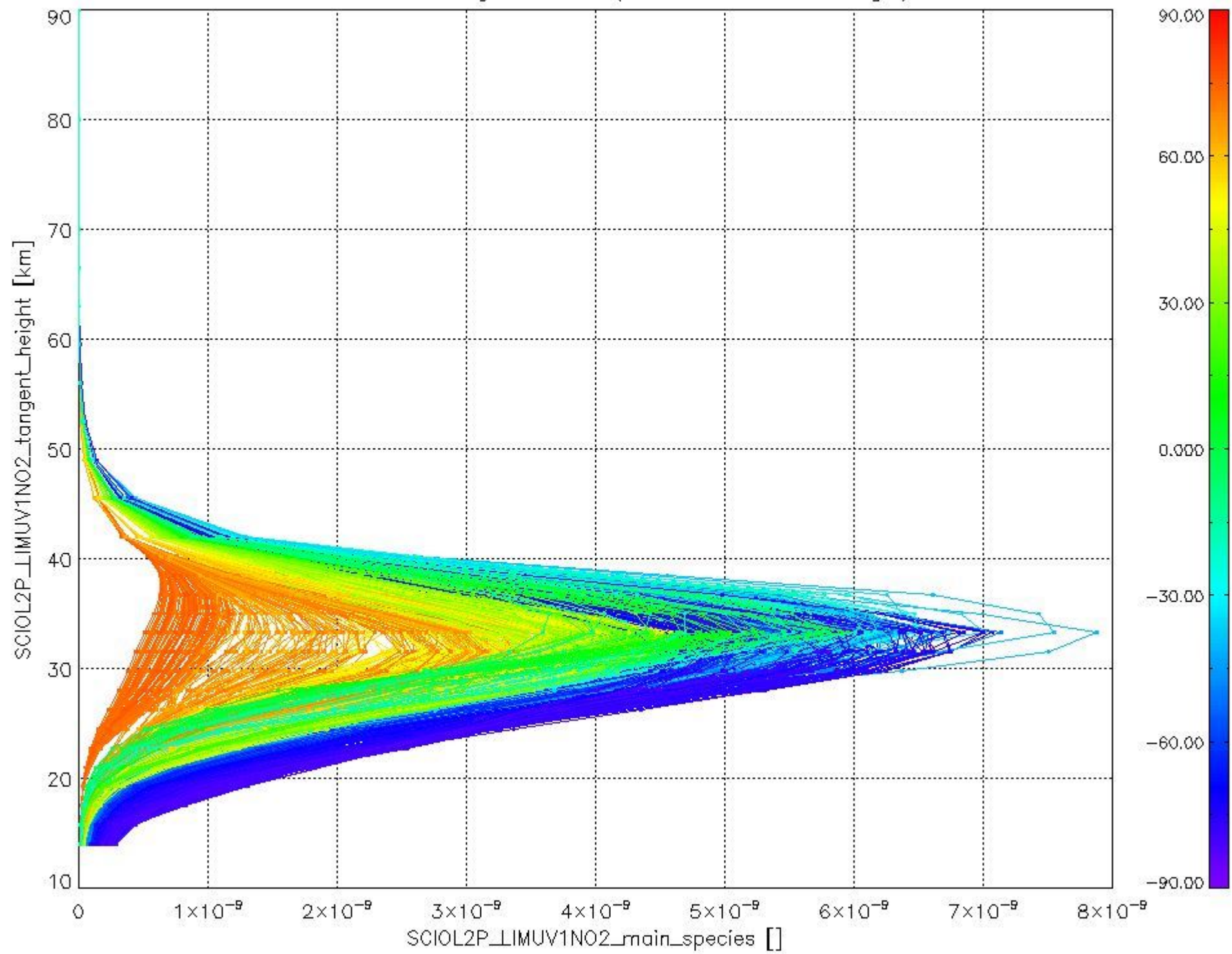
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



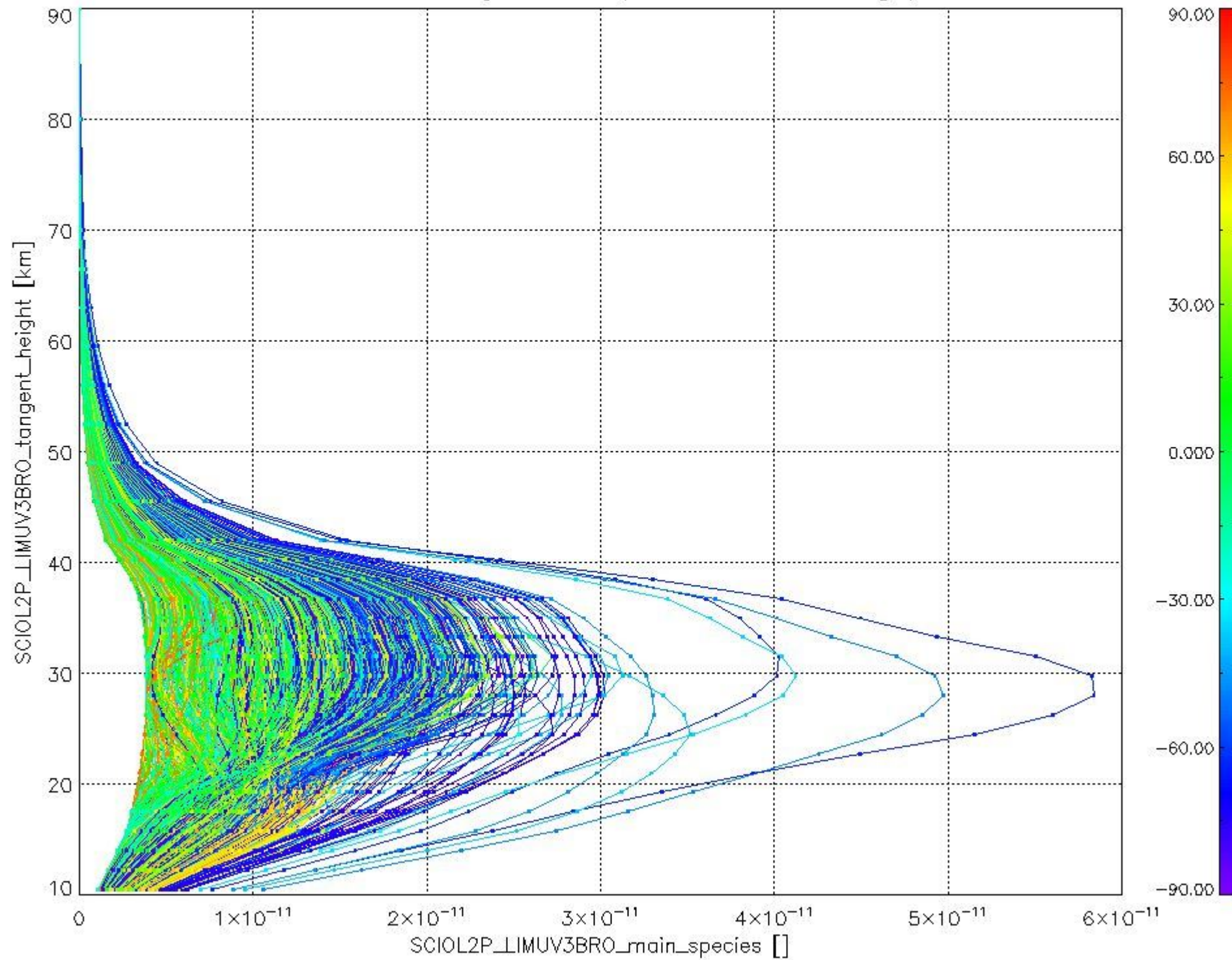
2.2.3.2 NO2 (UV1)

Plot of SCIO2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



2.2.3.3 BrO (UV3)

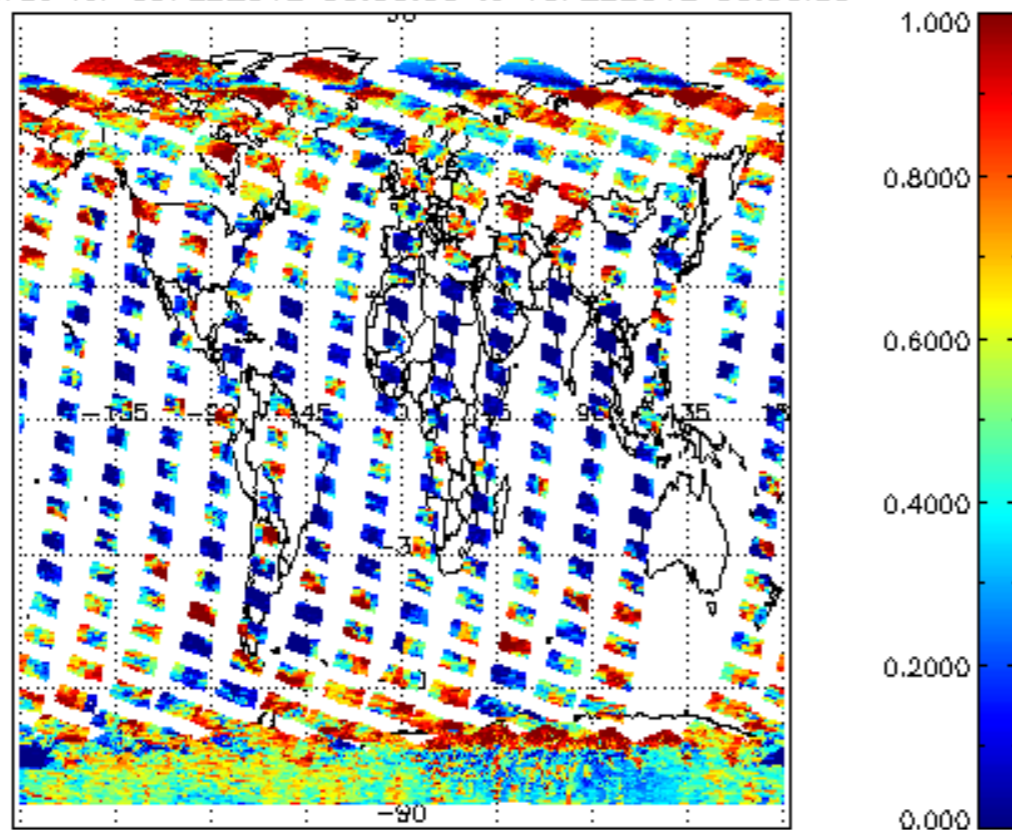
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



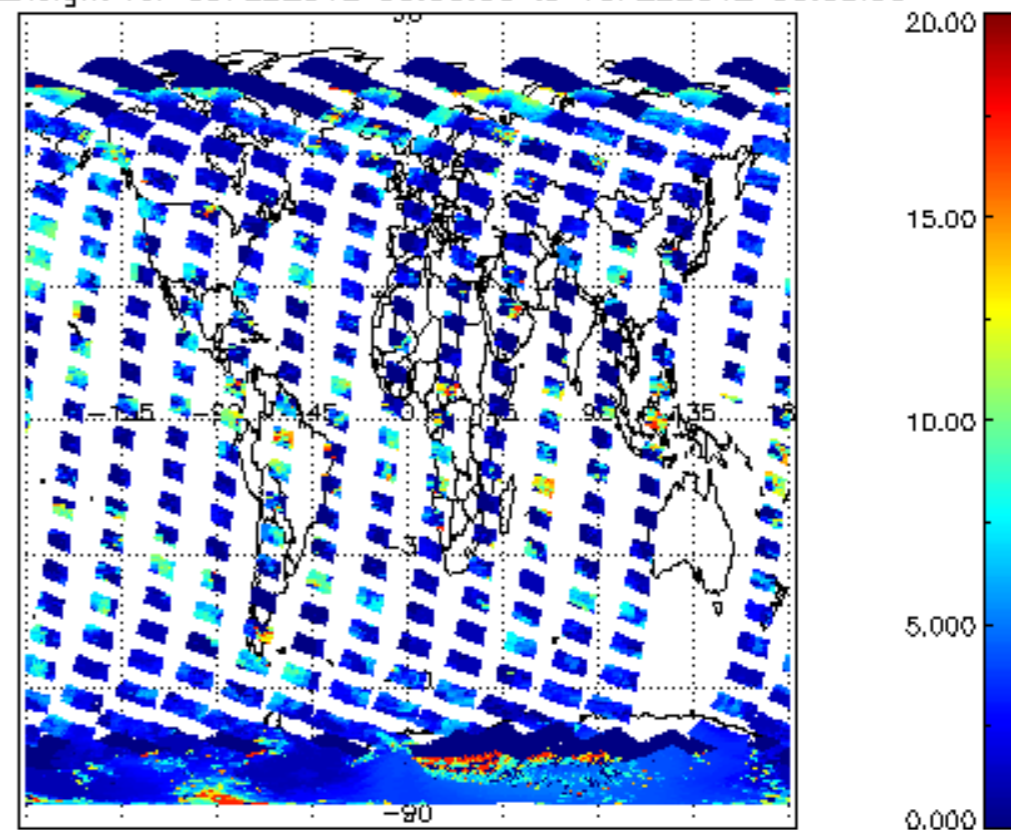
2.3 ADF monitoring

Number	ADF
	IN_ (INITIALISATION_FILE)
0	SCI_IN_AXNPDE20110201_120000_20020301_000000_20991231_235959
	ECF (ECMWF_FILE)
1	NOT USED
	MF1 (M_FACTOR_FILE)
2	SCI_MF1_AXVIEC20120214_141416_20120208_182945_20120210_182945
3	SCI_MF1_AXVIEC20120214_141530_20120209_193314_20120211_193314

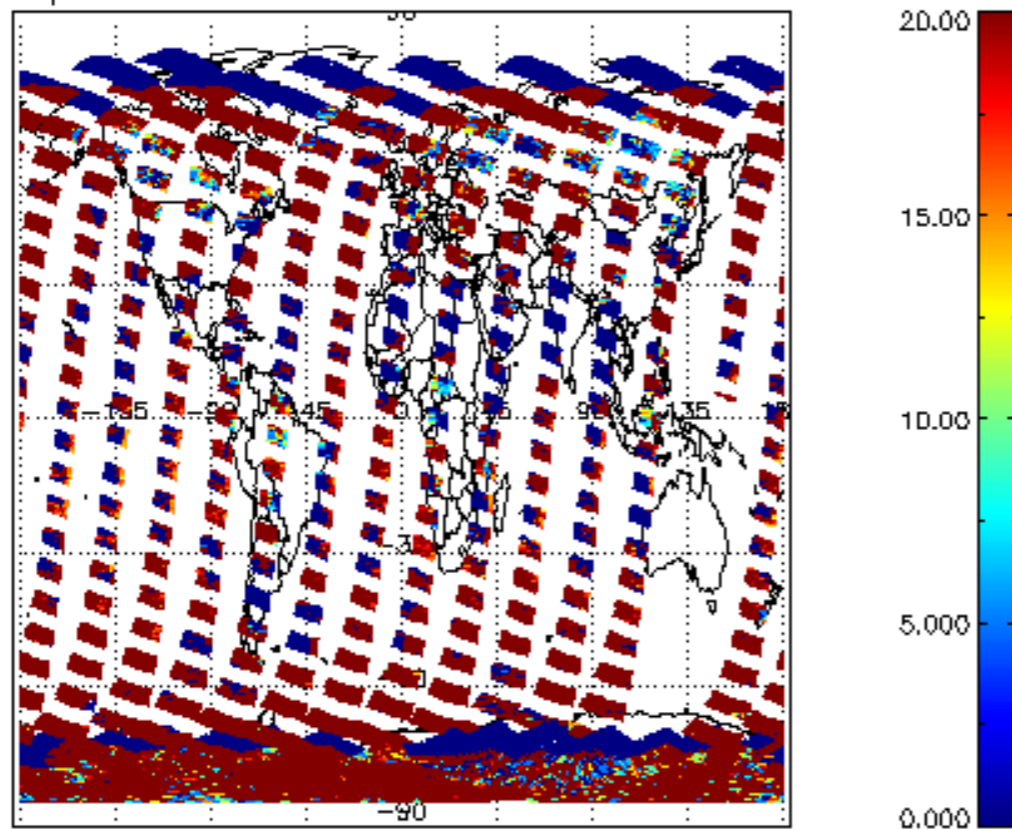
cI_frac for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



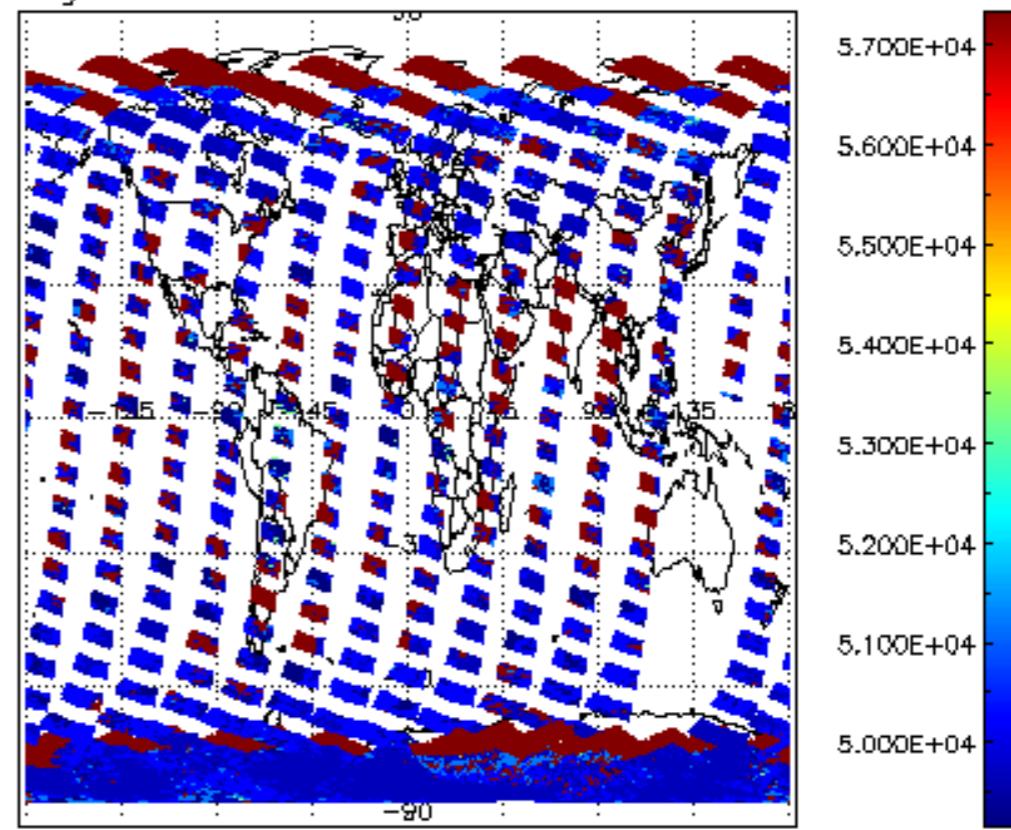
cI_top_height for 09FEB2012 00:00:00 to 10FEB2012 00:00:00

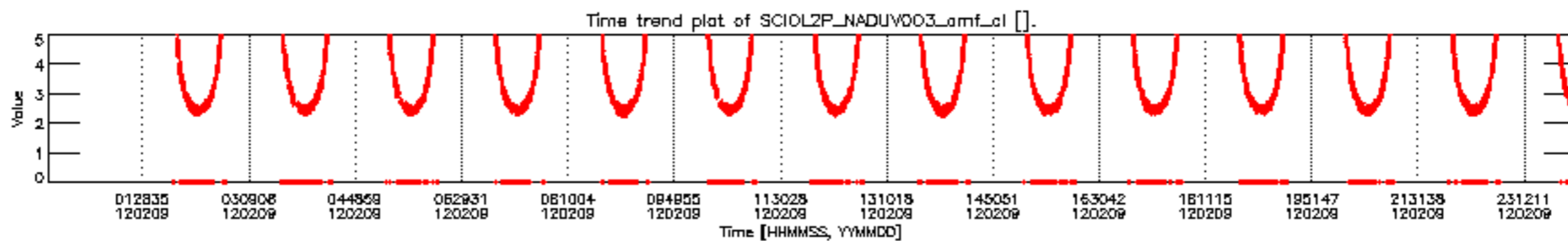
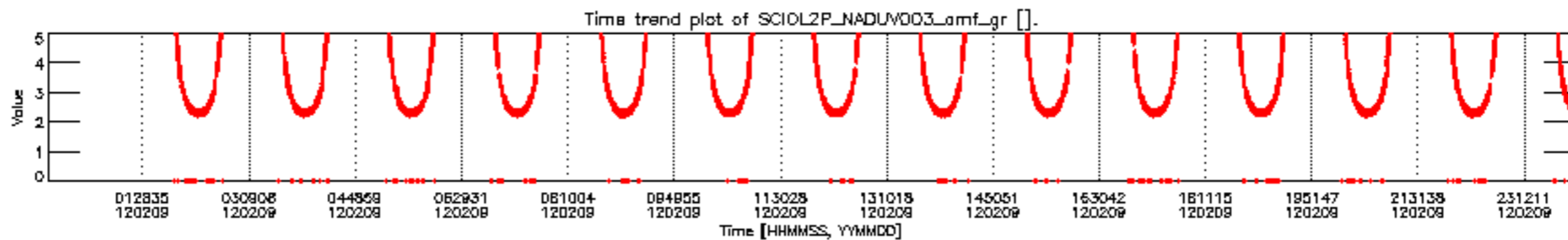
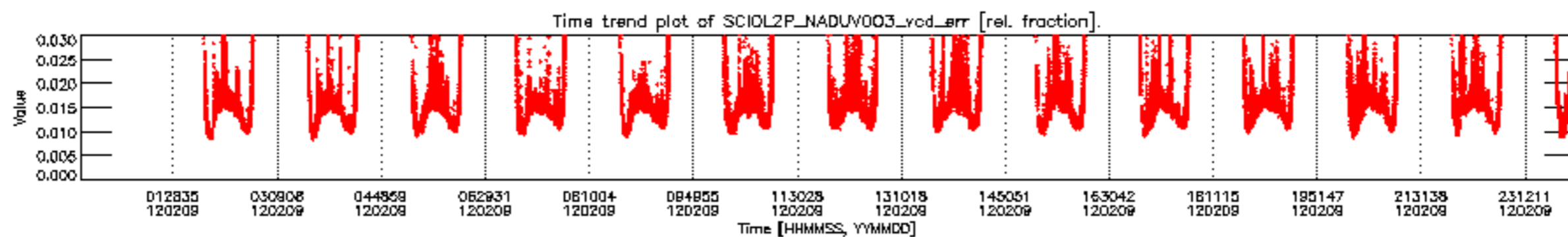
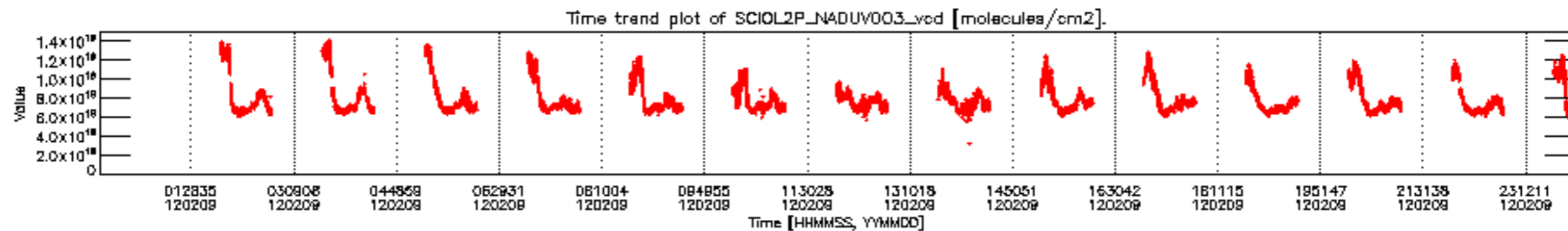


cI_opt_depth for 09FEB2012 00:00:00 to 10FEB2012 00:00:00

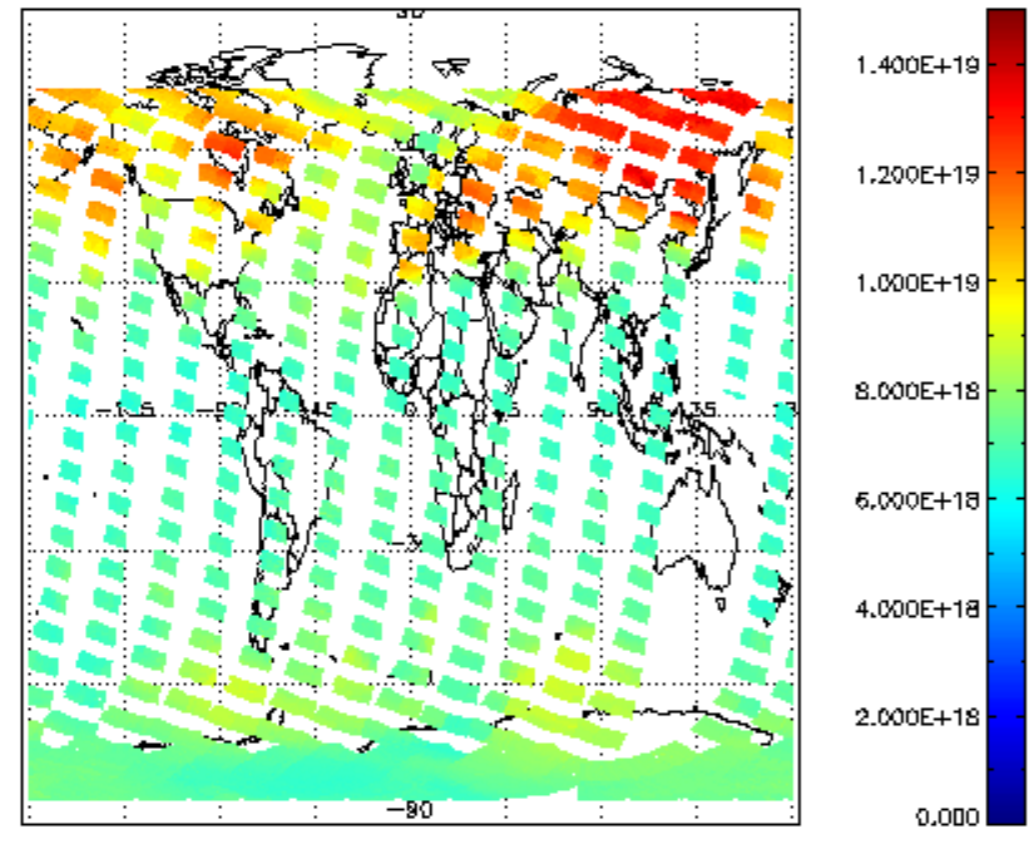


cloud_flags for 09FEB2012 00:00:00 to 10FEB2012 00:00:00

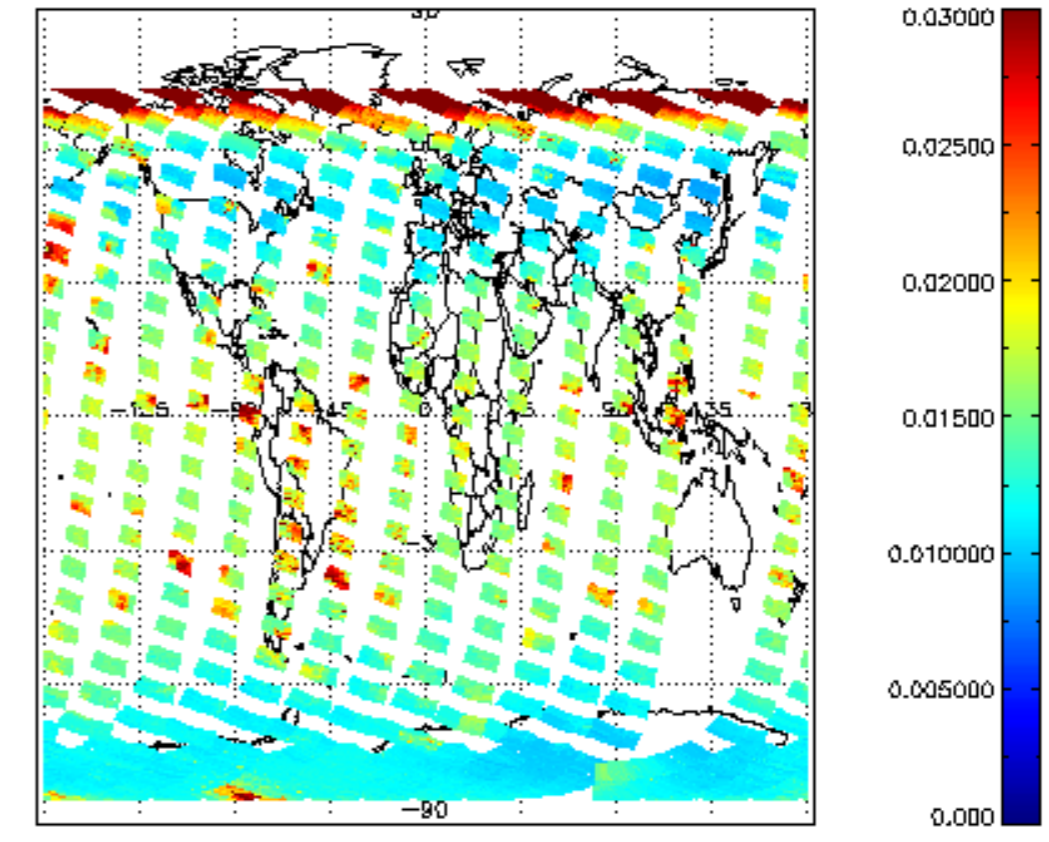




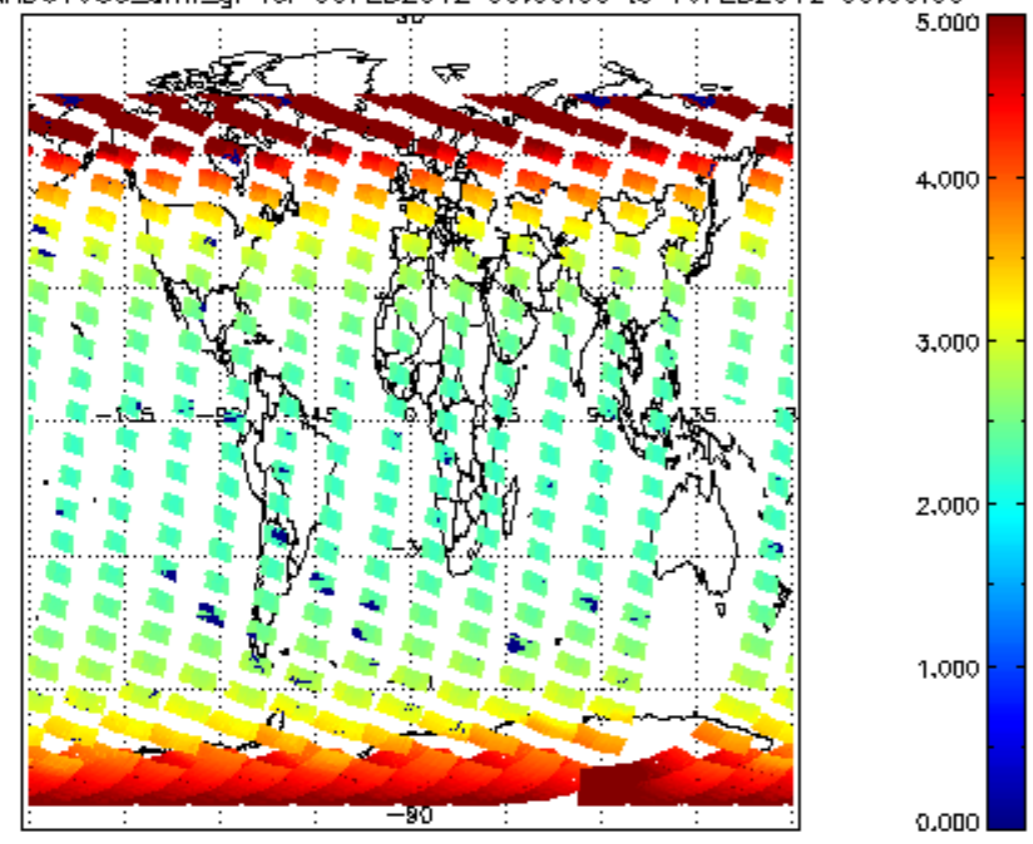
SCIOL2P_NADUV003_vcd for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



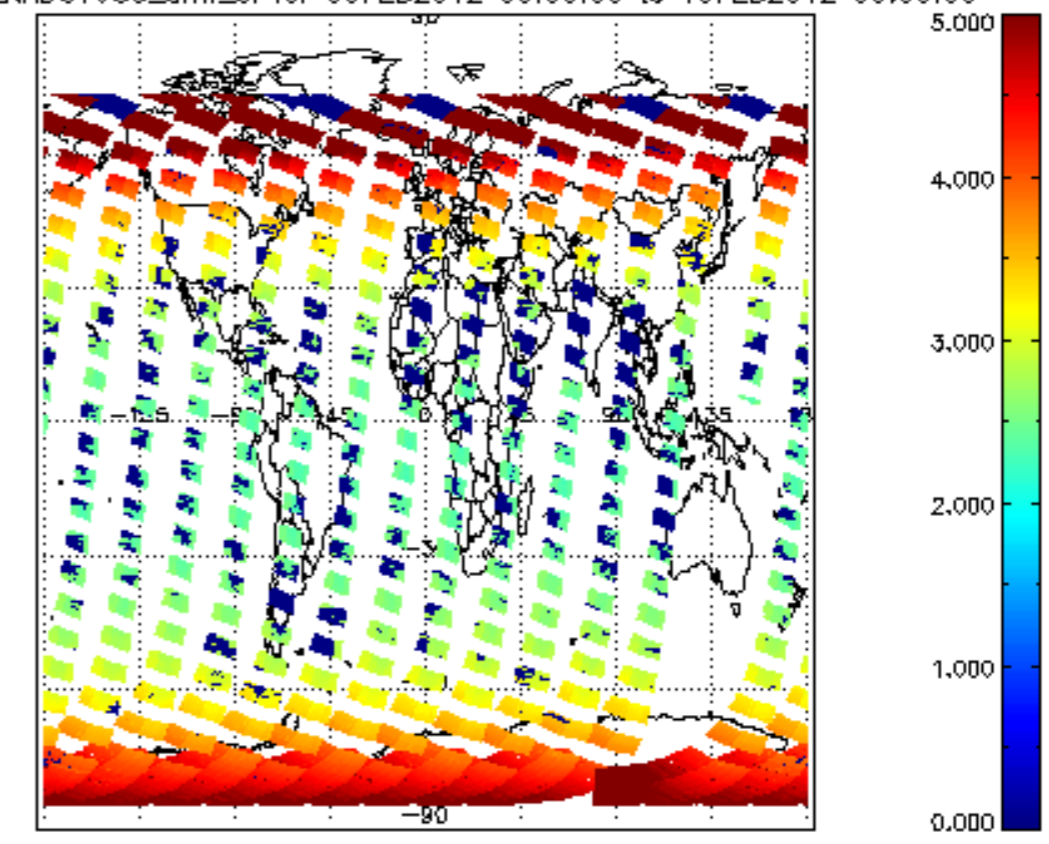
SCIOL2P_NADUV003_vcd_err for 09FEB2012 00:00:00 to 10FEB2012 00:00:00

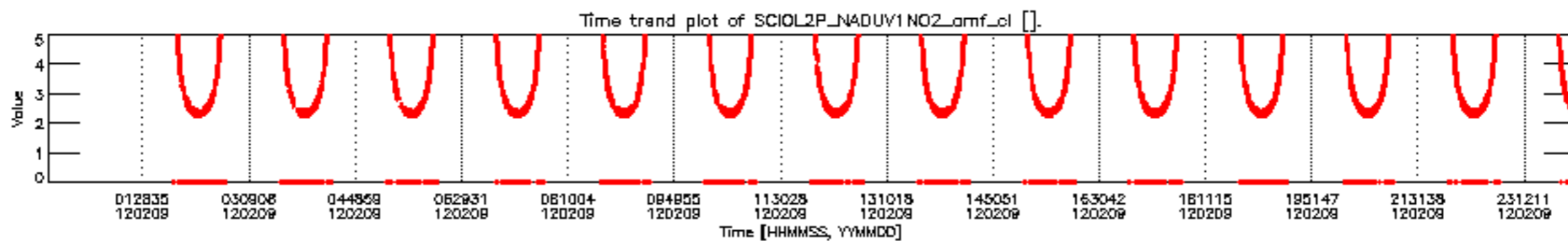
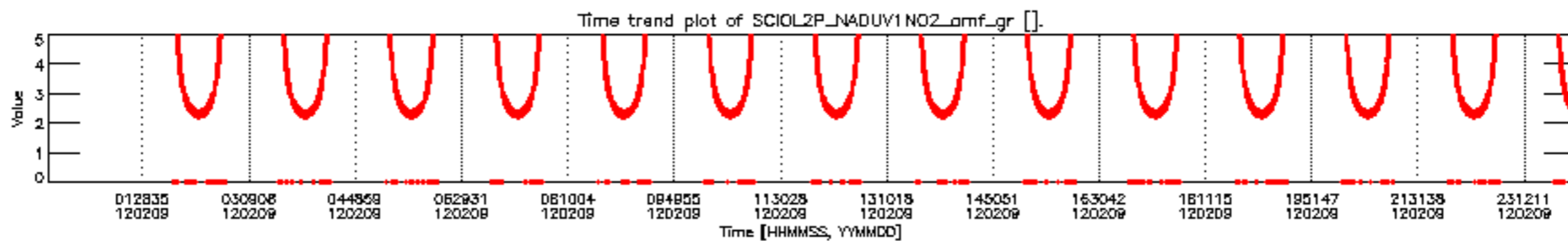
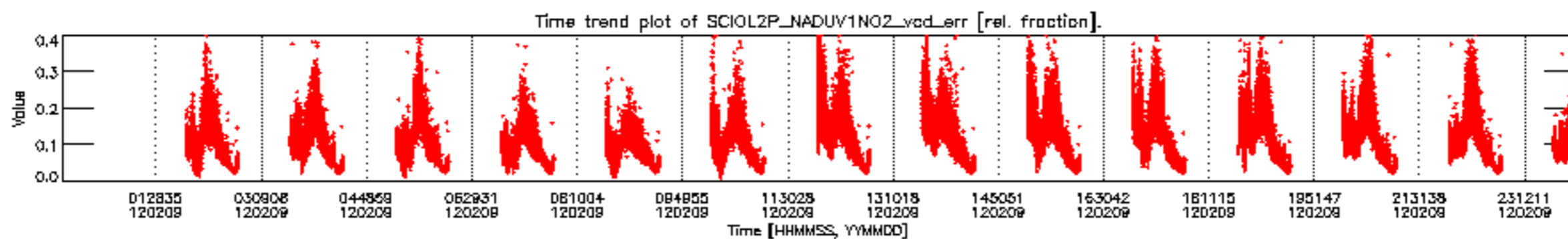
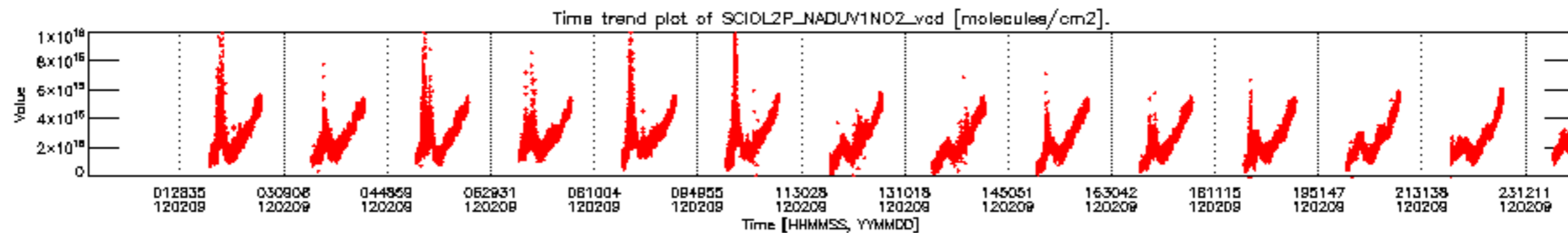


SCIOL2P_NADUV003_amf_gr for 09FEB2012 00:00:00 to 10FEB2012 00:00:00

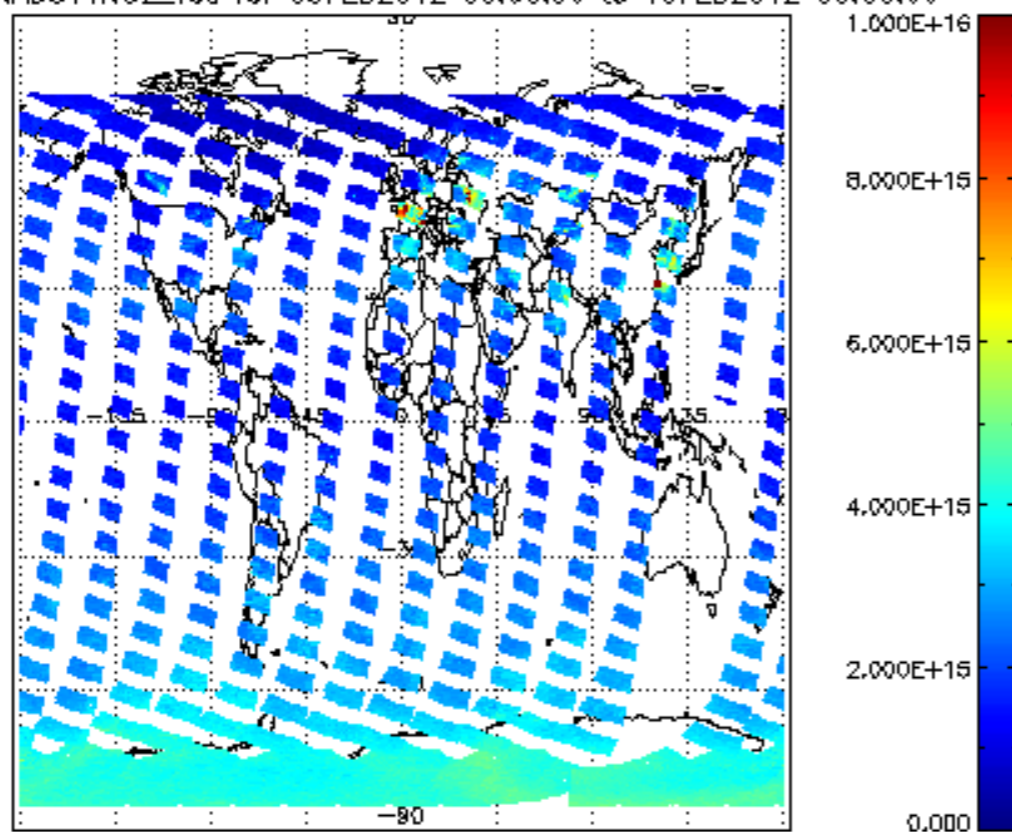


SCIOL2P_NADUV003_amf_cl for 09FEB2012 00:00:00 to 10FEB2012 00:00:00

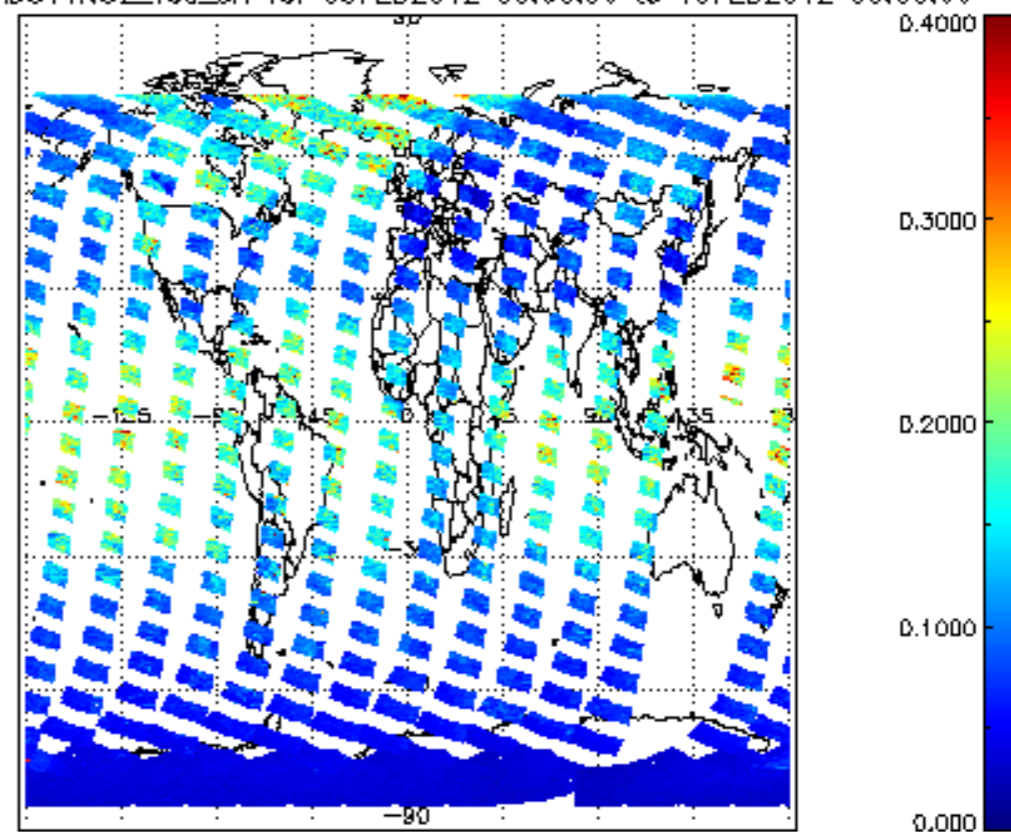




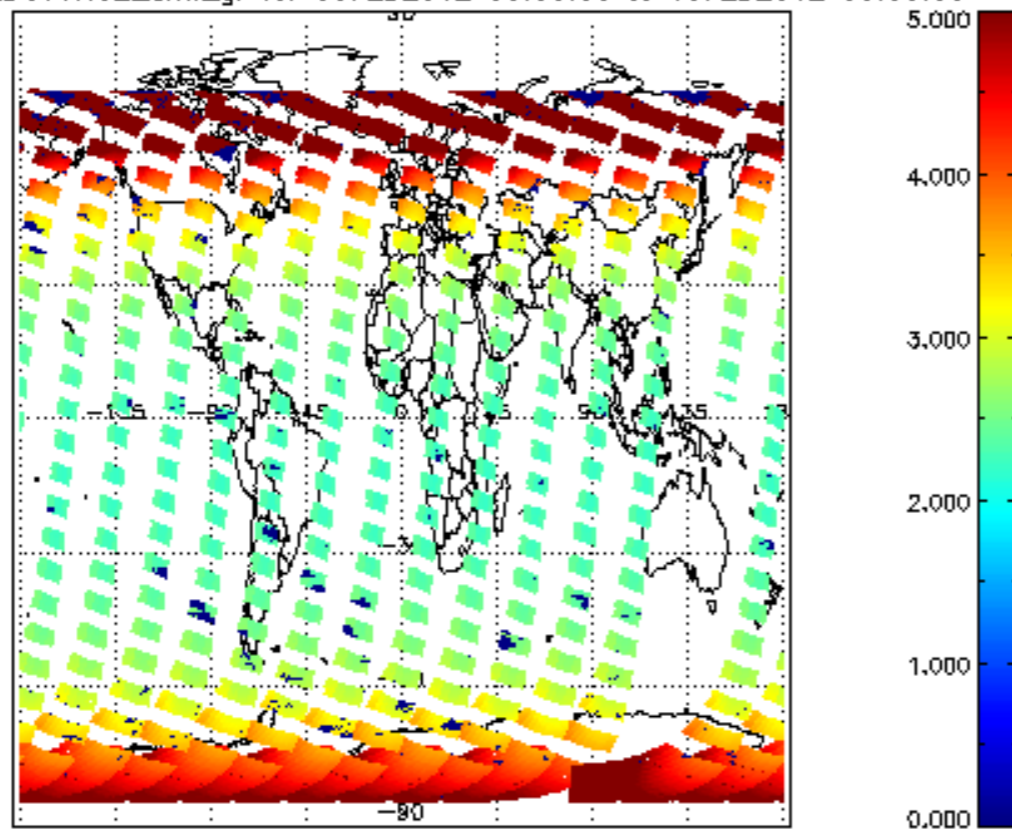
SCIOL2P_NADUV1N02_vcd for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



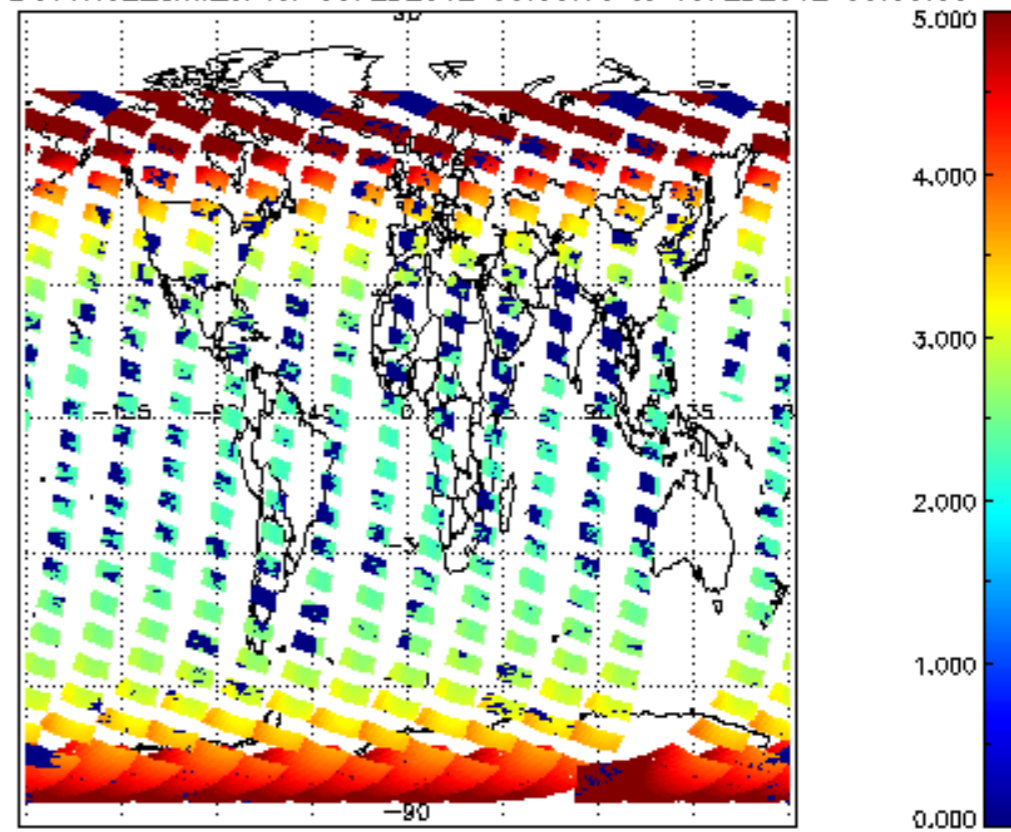
SCIOL2P_NADUV1N02_vcd_err for 09FEB2012 00:00:00 to 10FEB2012 00:00:00

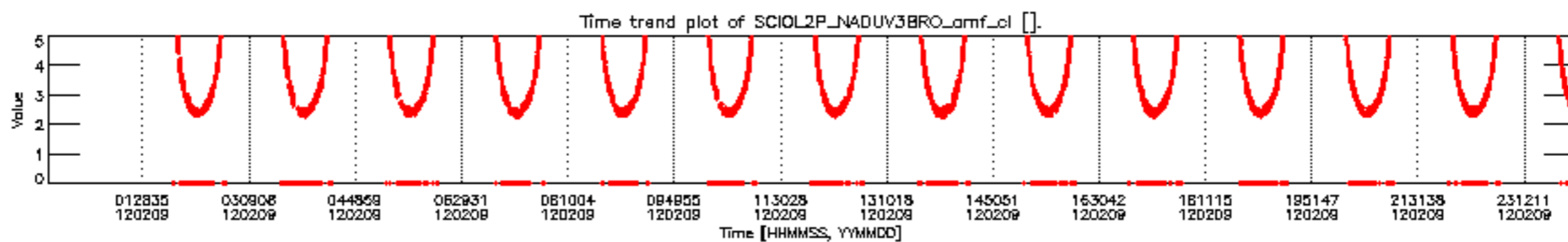
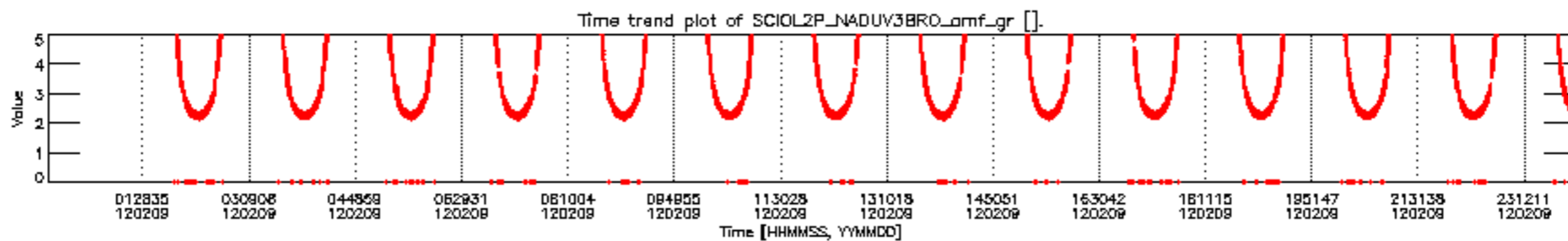
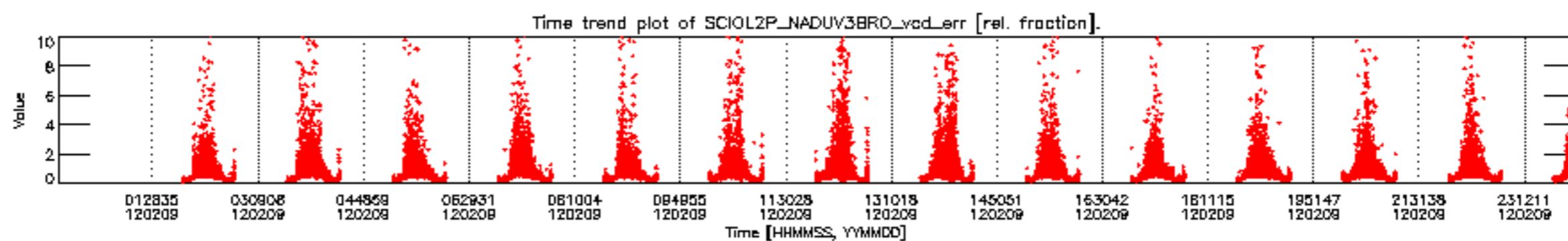
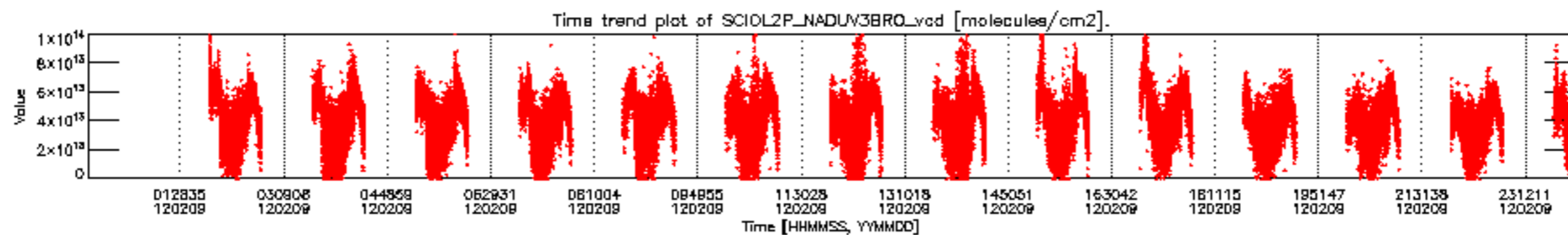


SCIOL2P_NADUV1N02_amf_gr for 09FEB2012 00:00:00 to 10FEB2012 00:00:00

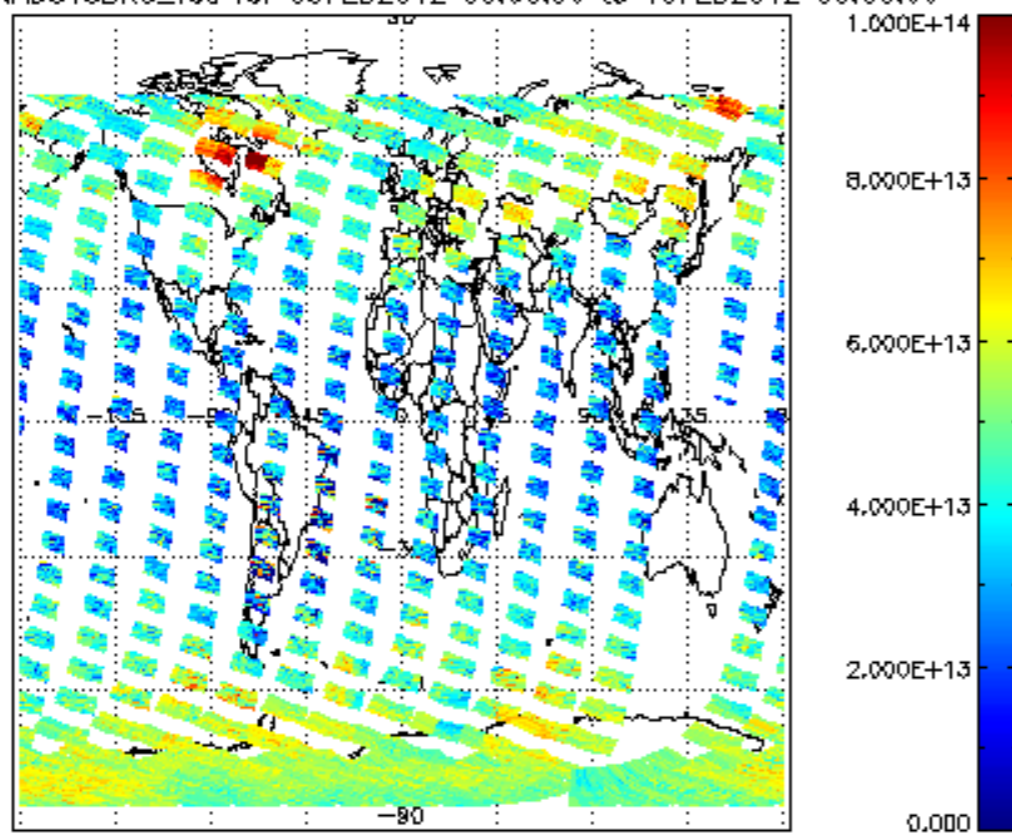


SCIOL2P_NADUV1N02_amf_cl for 09FEB2012 00:00:00 to 10FEB2012 00:00:00

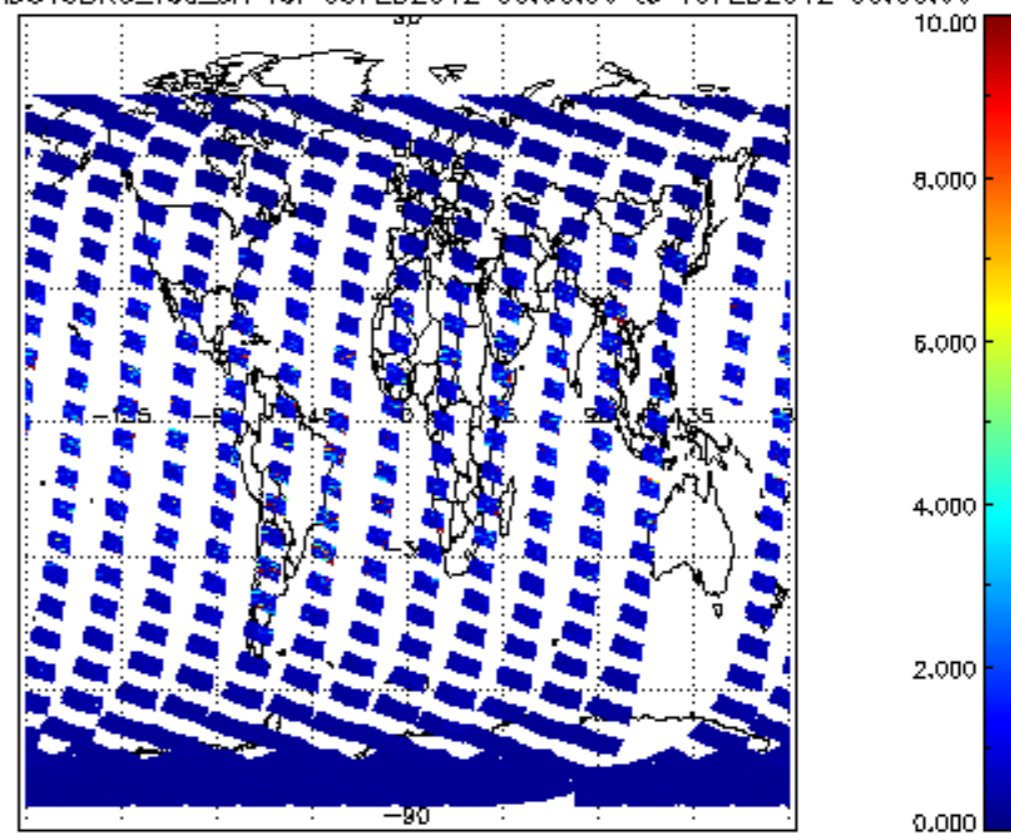




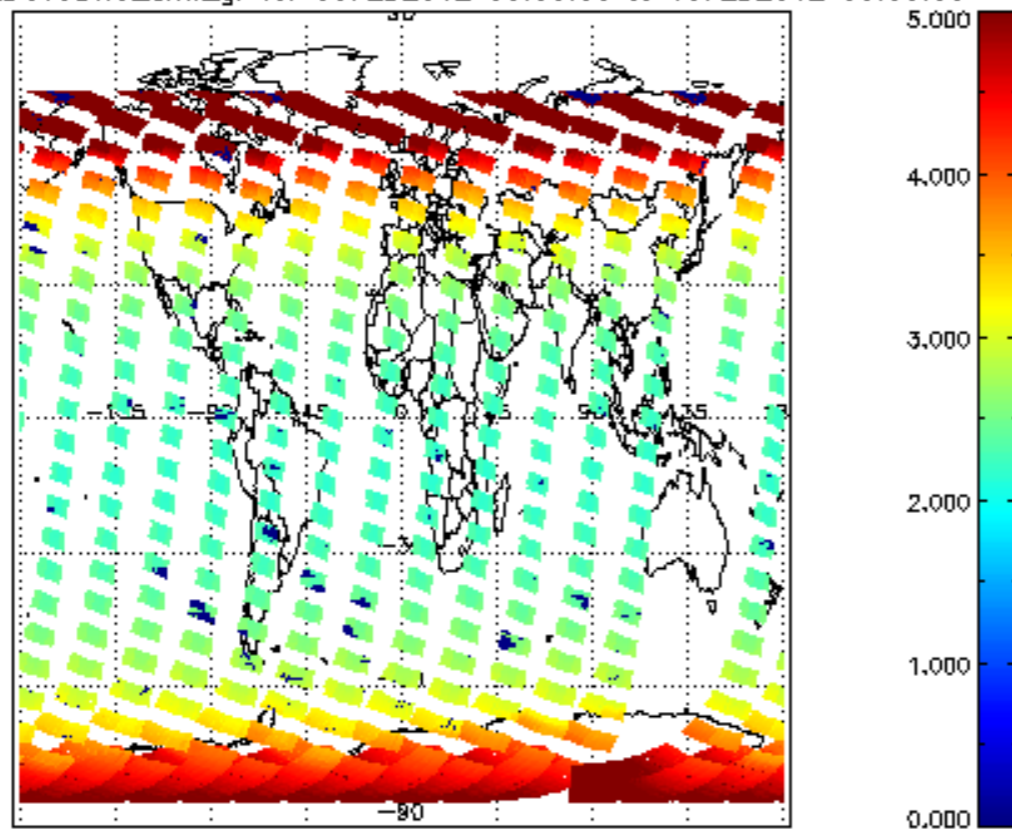
SCIOL2P_NADUV3BRO_vcd for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



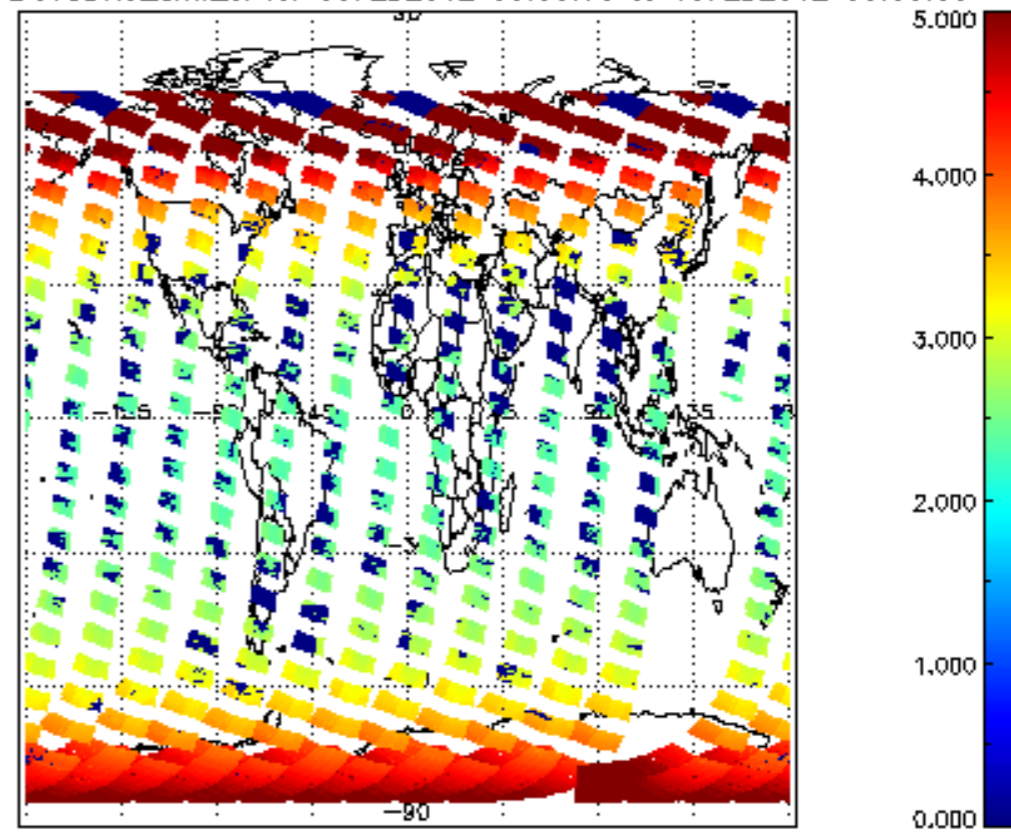
SCIOL2P_NADUV3BRO_vcd_err for 09FEB2012 00:00:00 to 10FEB2012 00:00:00

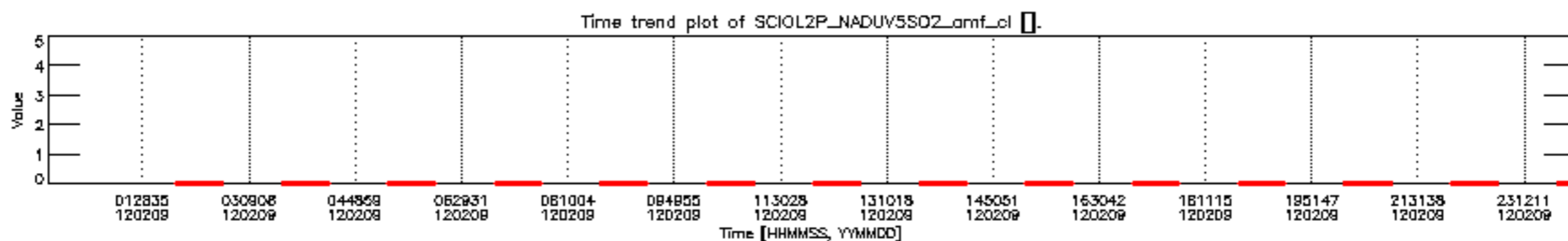
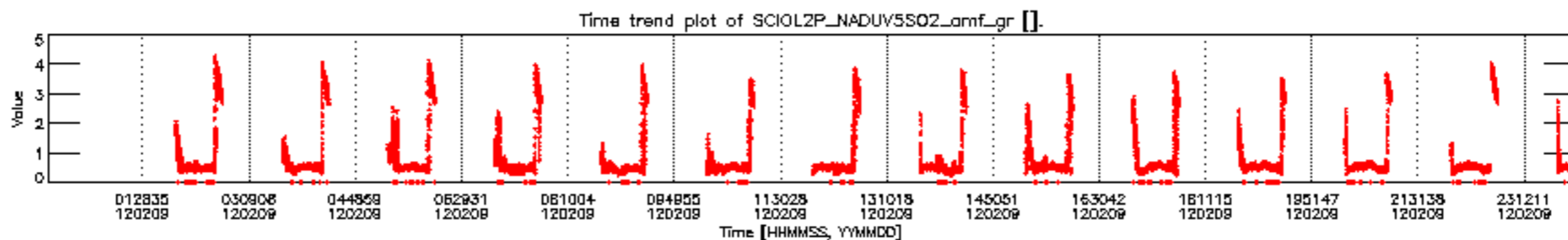
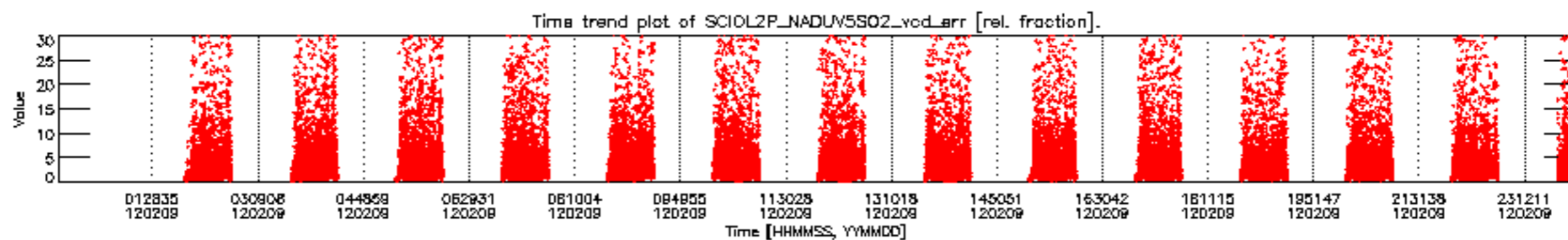
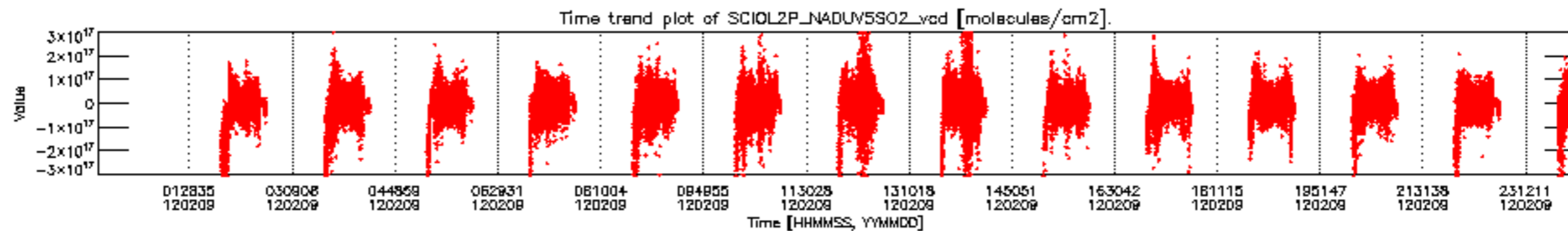


SCIOL2P_NADUV3BRO_amf_gr for 09FEB2012 00:00:00 to 10FEB2012 00:00:00

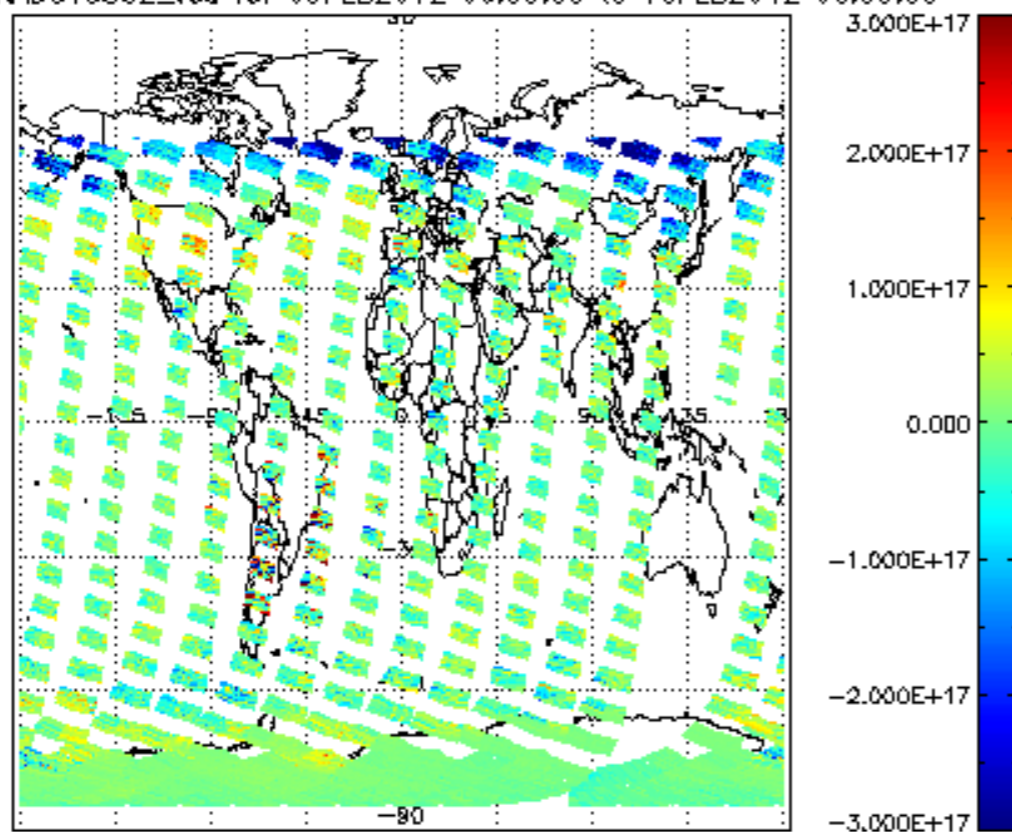


SCIOL2P_NADUV3BRO_amf_cl for 09FEB2012 00:00:00 to 10FEB2012 00:00:00

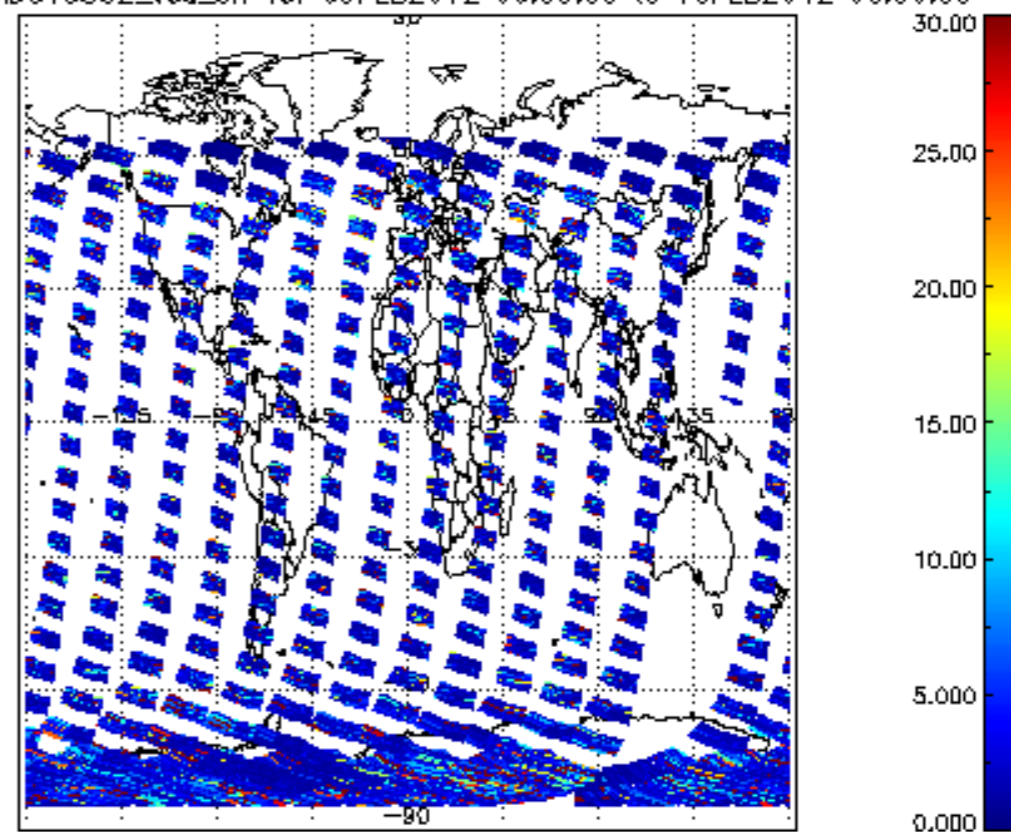




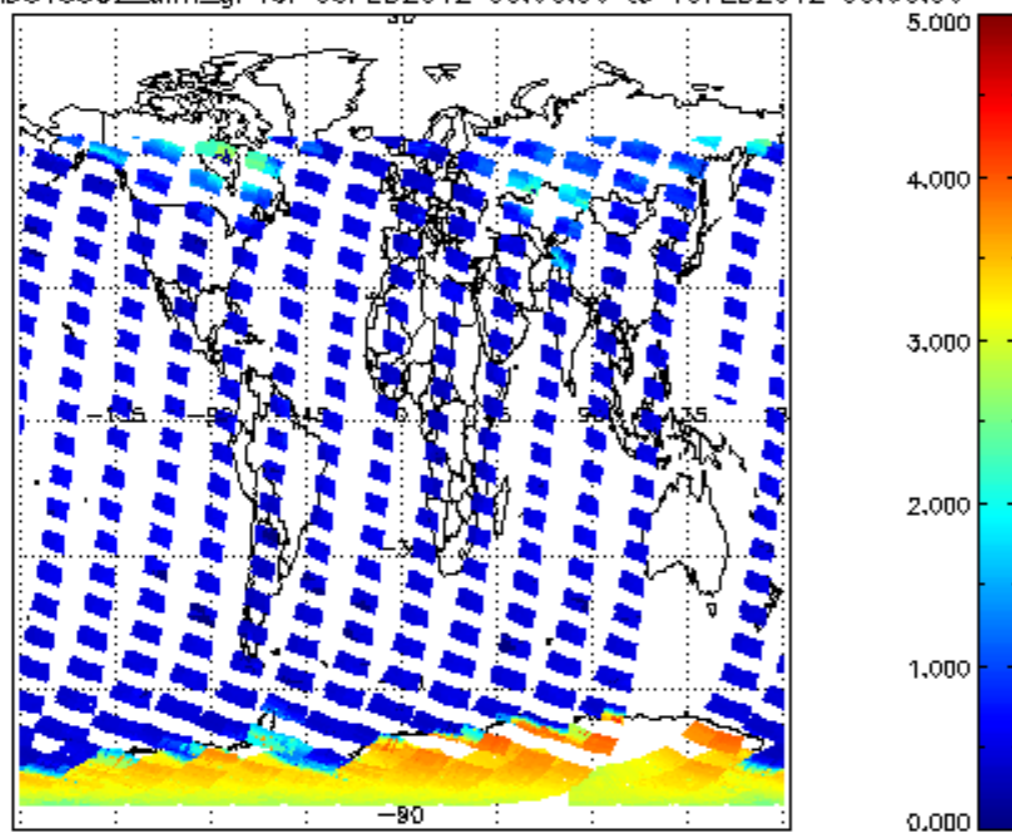
SCIOL2P_NADUV5S02_vcd for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



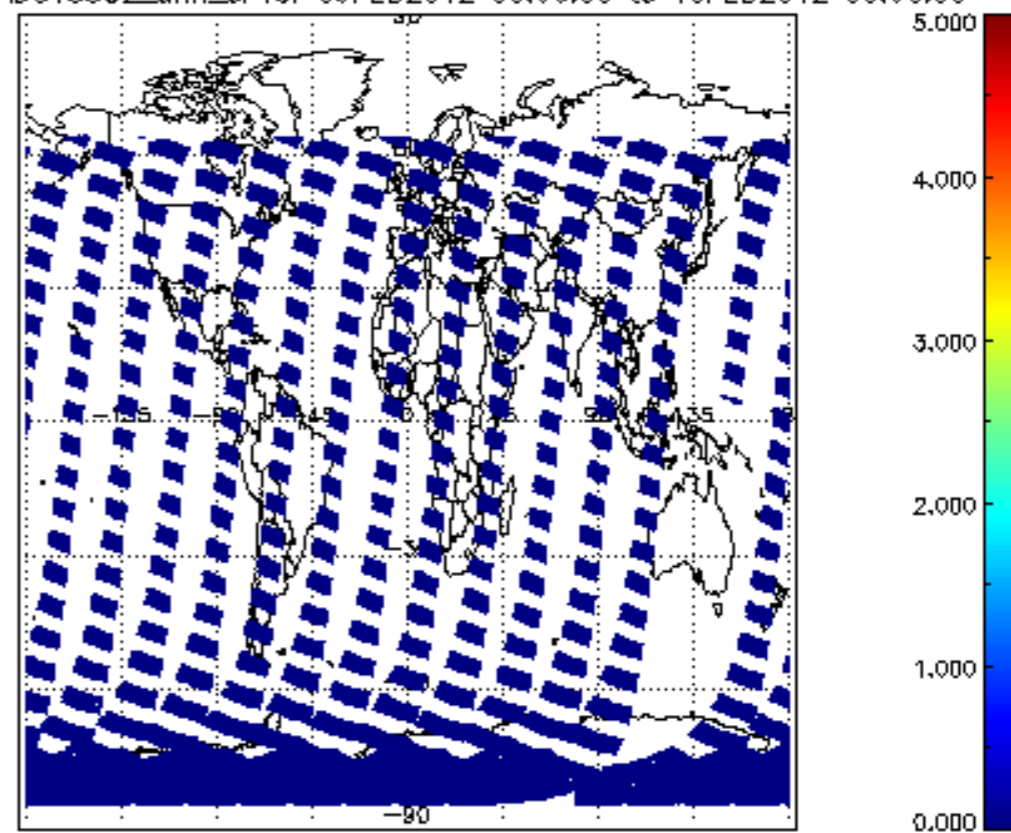
SCIOL2P_NADUV5S02_vcd_err for 09FEB2012 00:00:00 to 10FEB2012 00:00:00

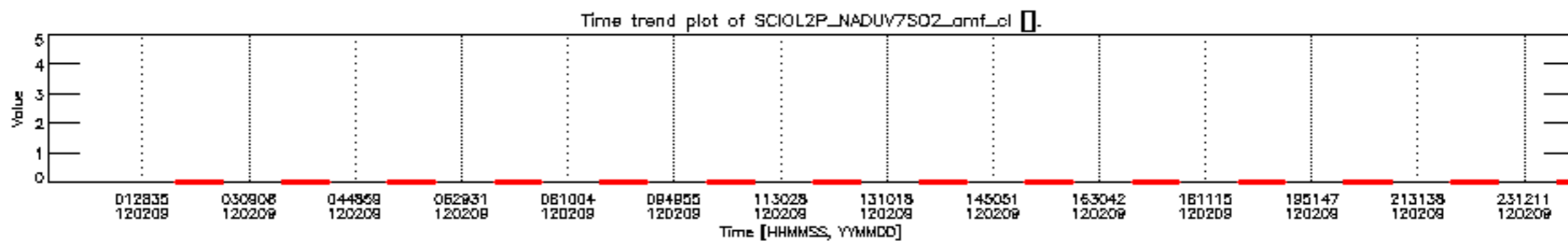
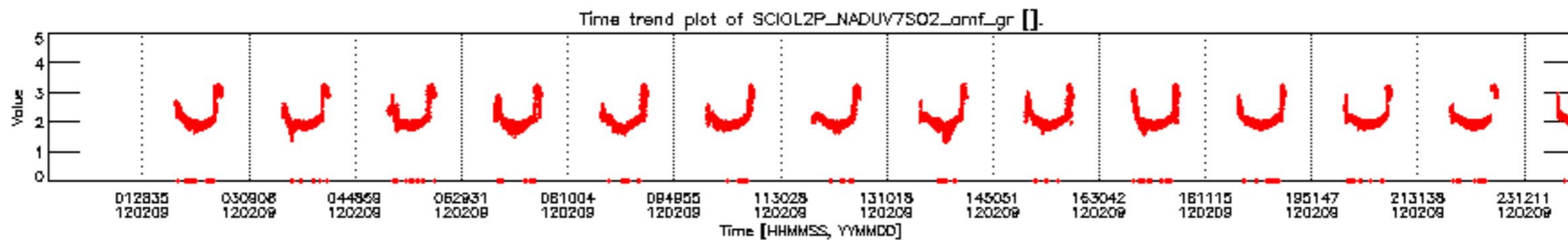
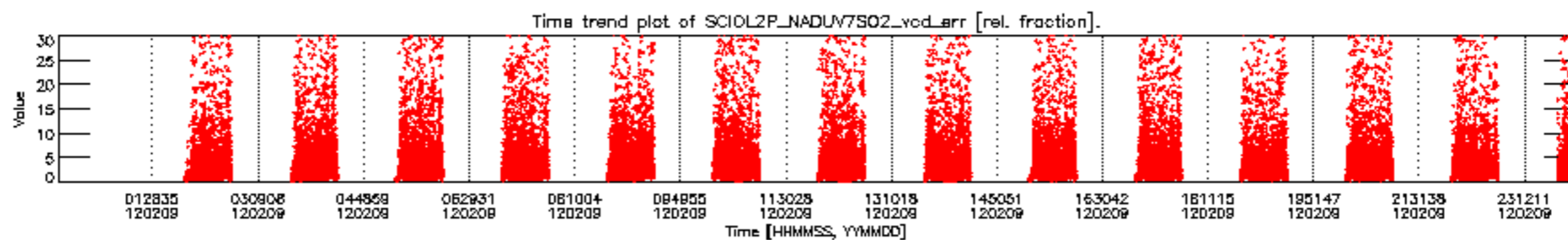
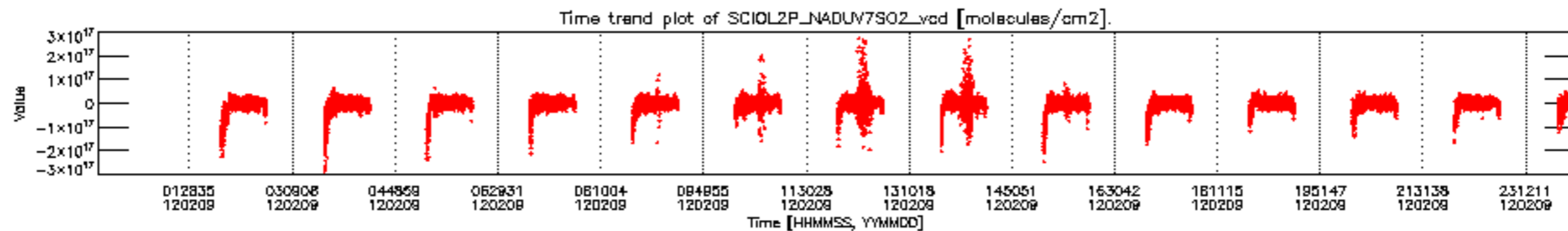


SCIOL2P_NADUV5S02_amf_gr for 09FEB2012 00:00:00 to 10FEB2012 00:00:00

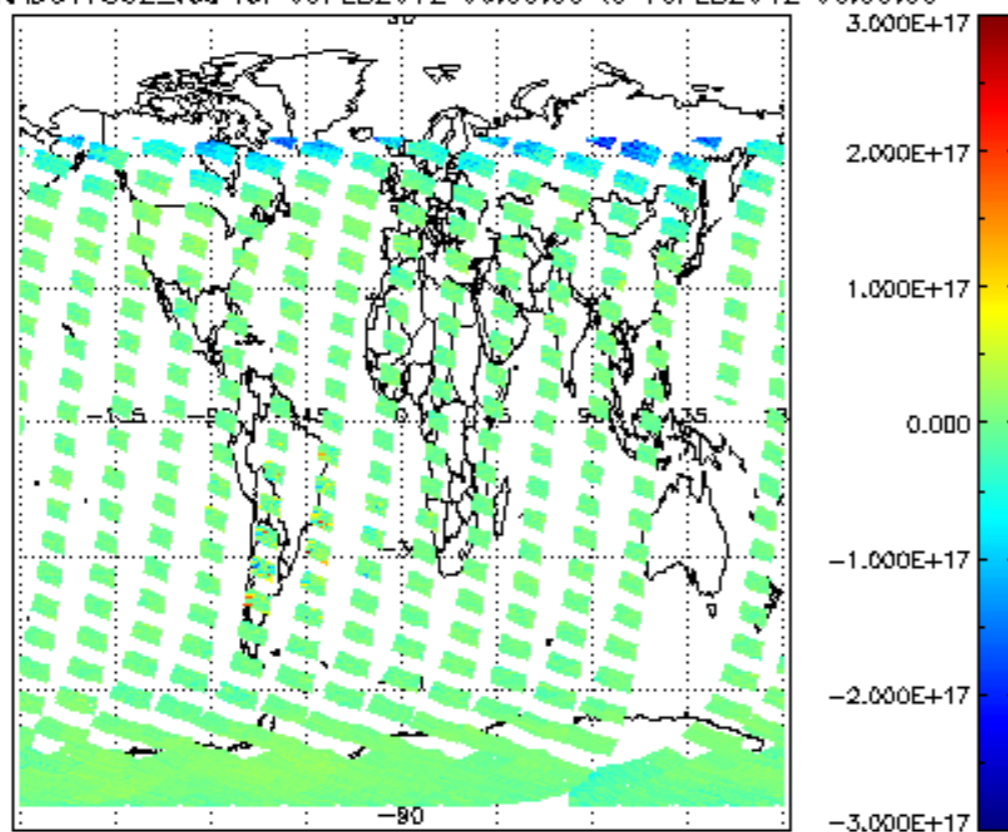


SCIOL2P_NADUV5S02_amf_cl for 09FEB2012 00:00:00 to 10FEB2012 00:00:00

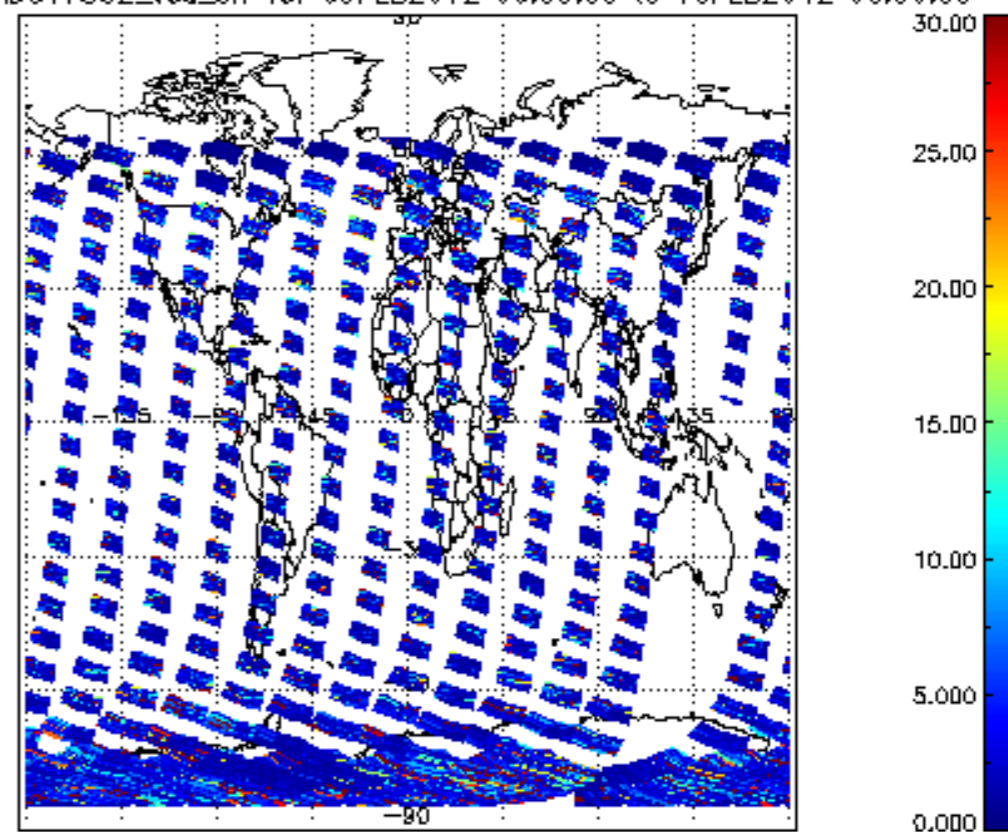




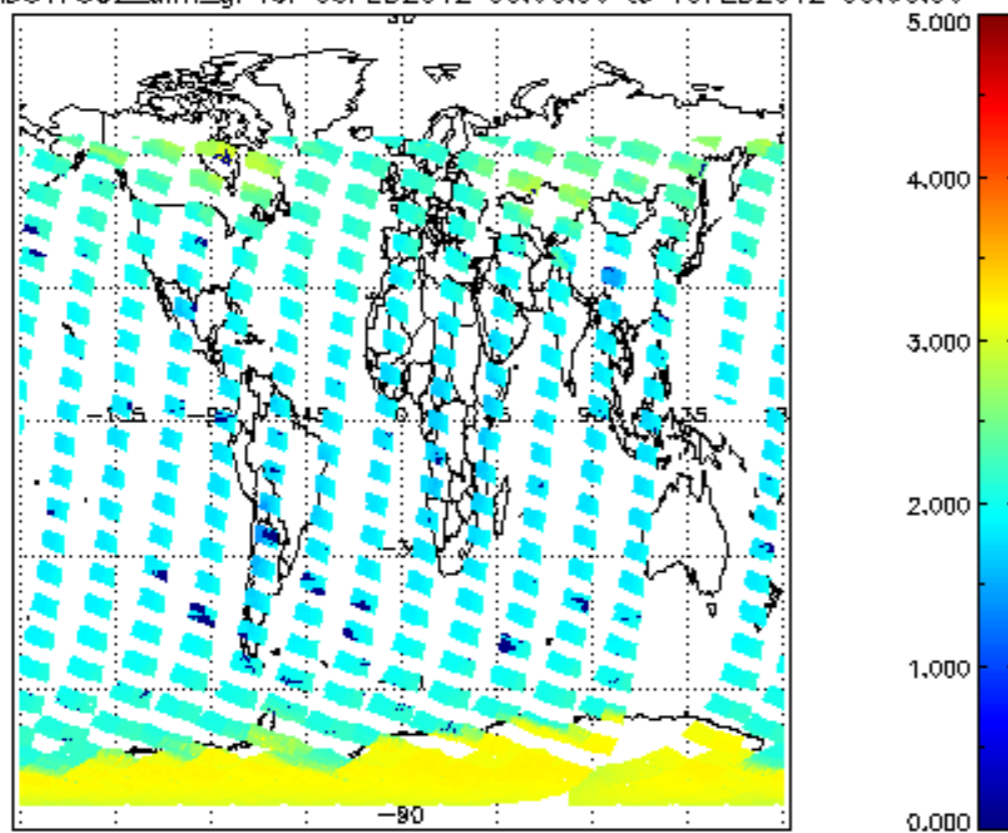
SCIOL2P_NADUV7S02_vcd for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



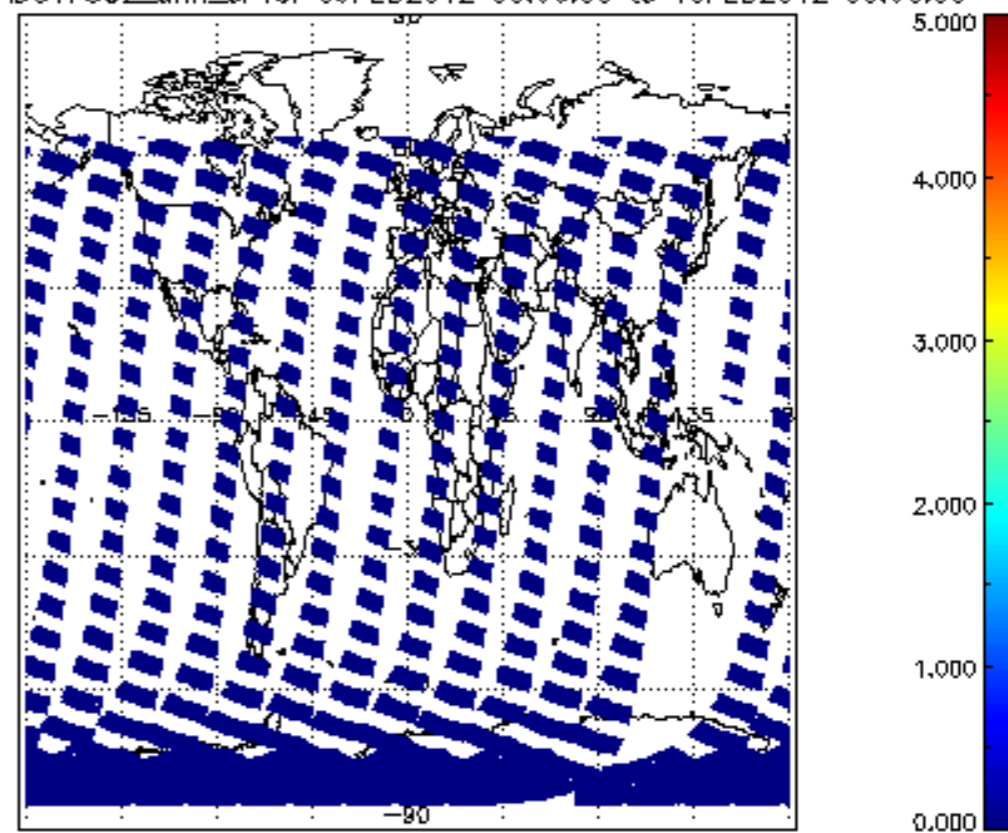
SCIOL2P_NADUV7S02_vcd_err for 09FEB2012 00:00:00 to 10FEB2012 00:00:00

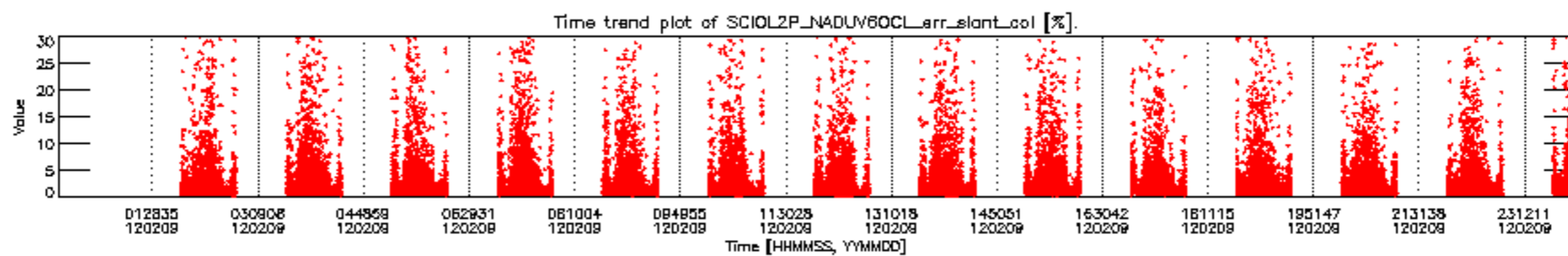
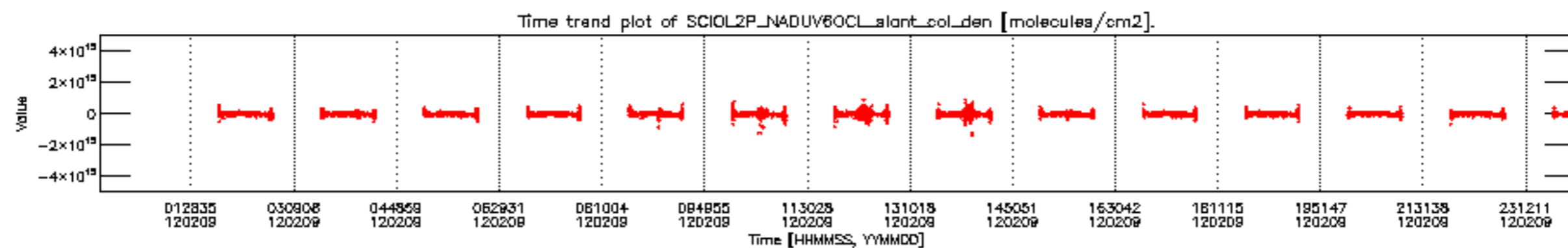


SCIOL2P_NADUV7S02_amf_gr for 09FEB2012 00:00:00 to 10FEB2012 00:00:00

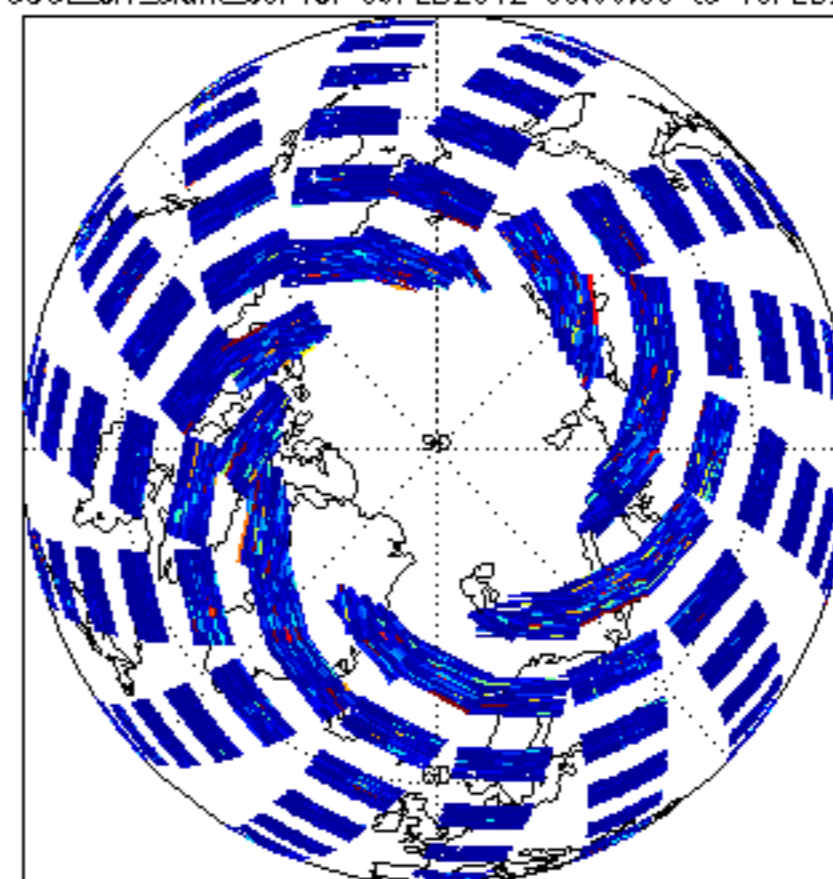
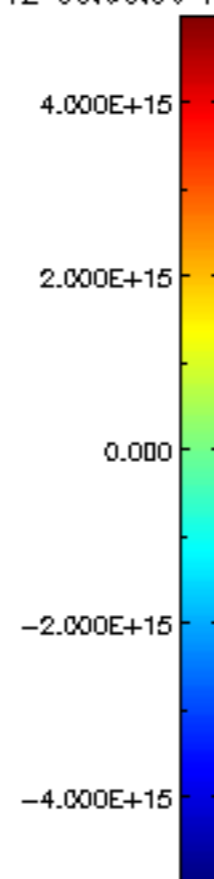
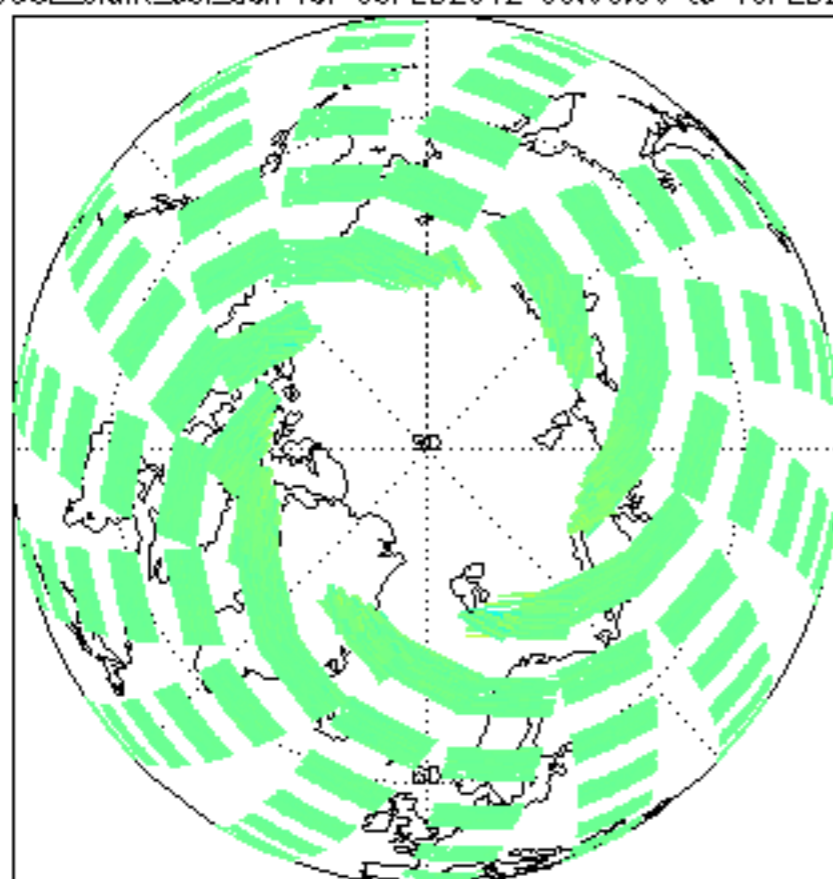


SCIOL2P_NADUV7S02_amf_cl for 09FEB2012 00:00:00 to 10FEB2012 00:00:00

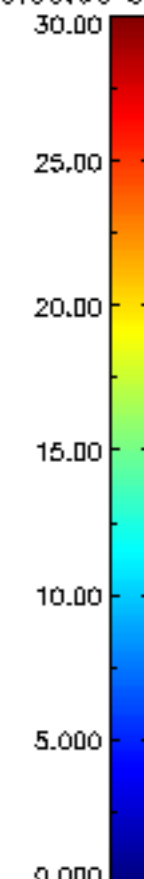
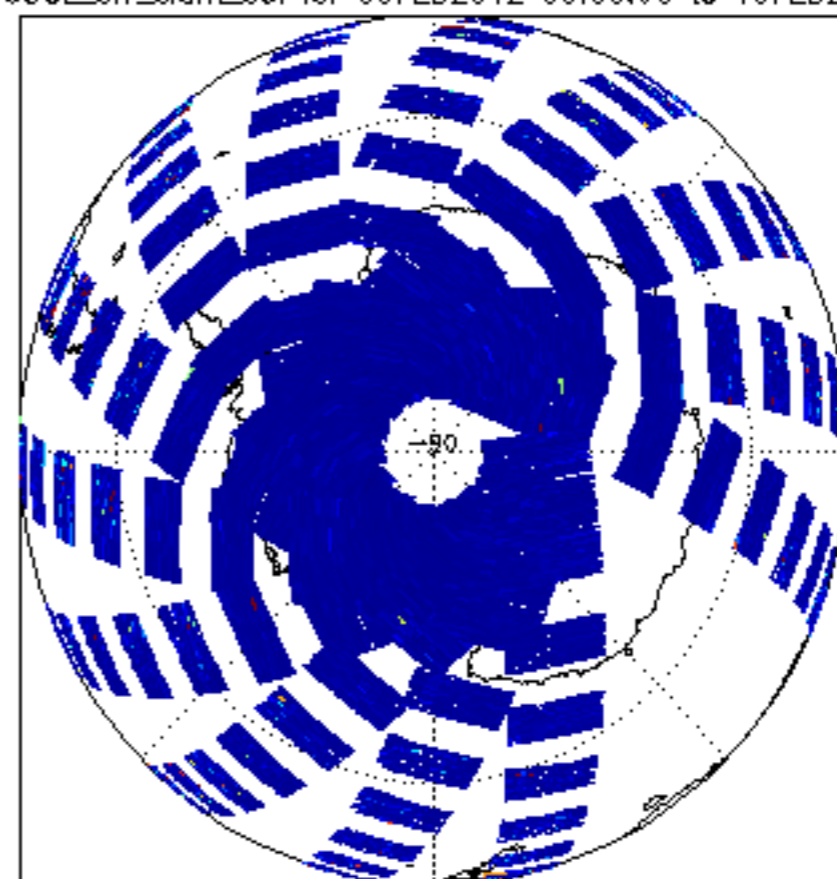
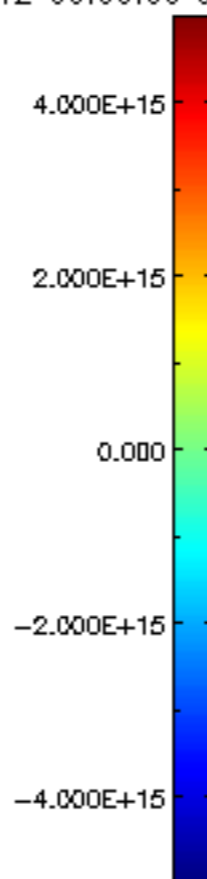
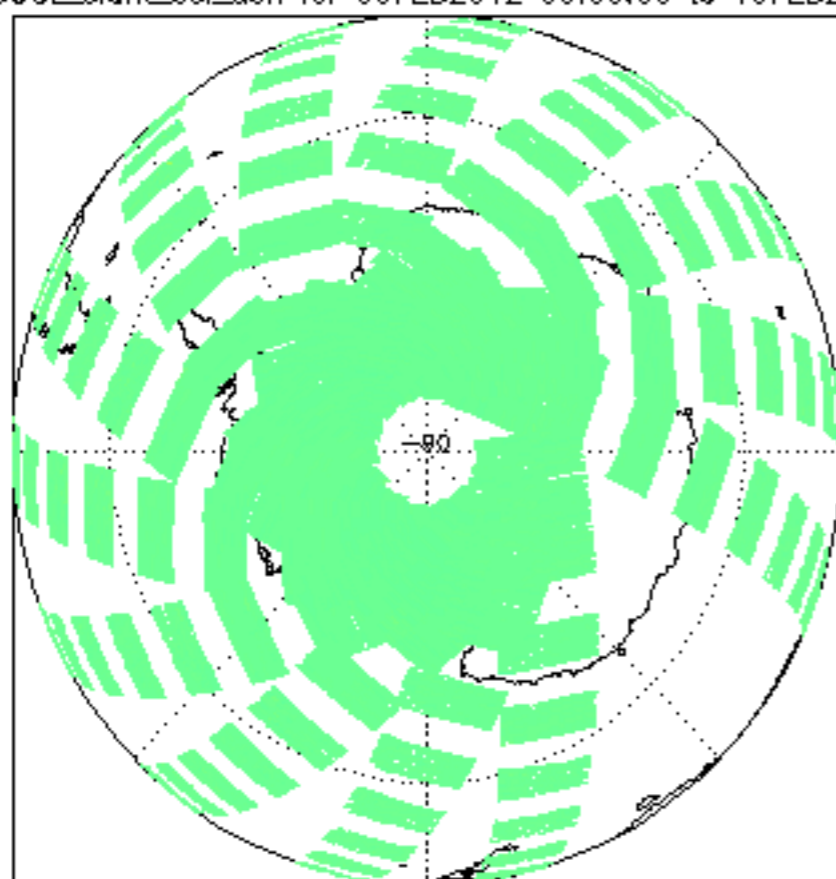


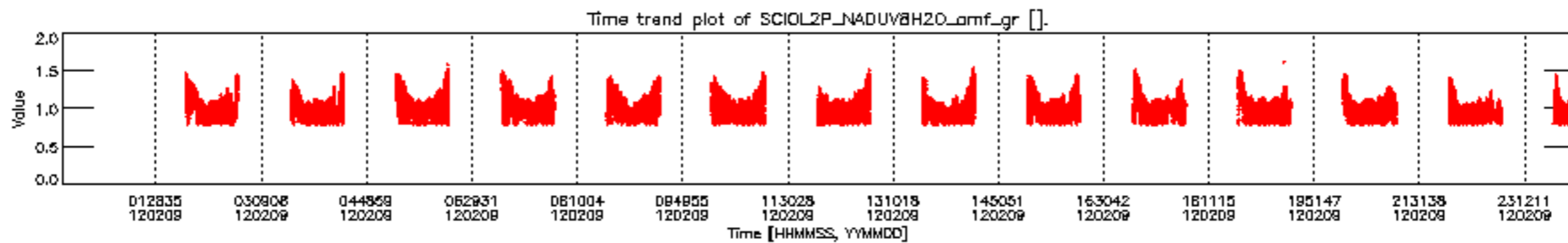
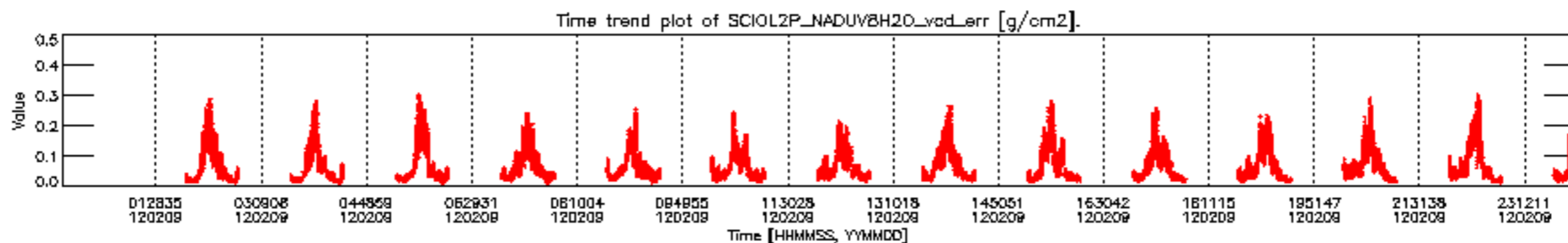
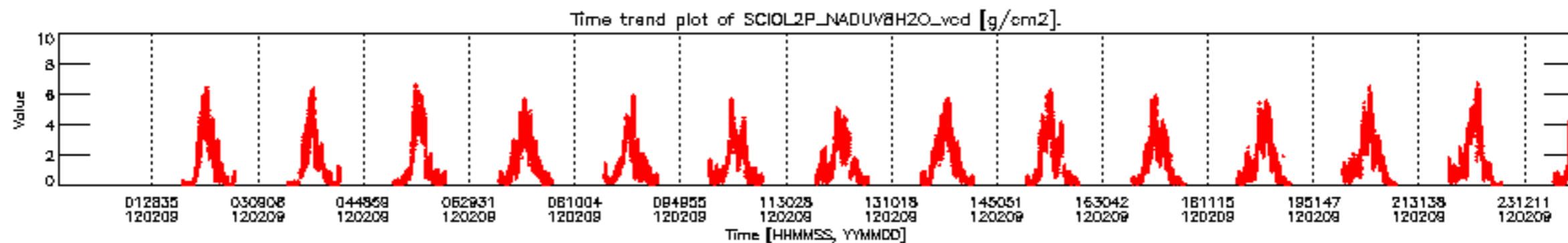


CIOL2P_NADUV6OCL_slant_col_den for 09FEB2012 00:00:00 to 10FEB2012 00:00:00 np; CIOL2P_NADUV6OCL_err_slant_col for 09FEB2012 00:00:00 to 10FEB2012 00:00:00 np

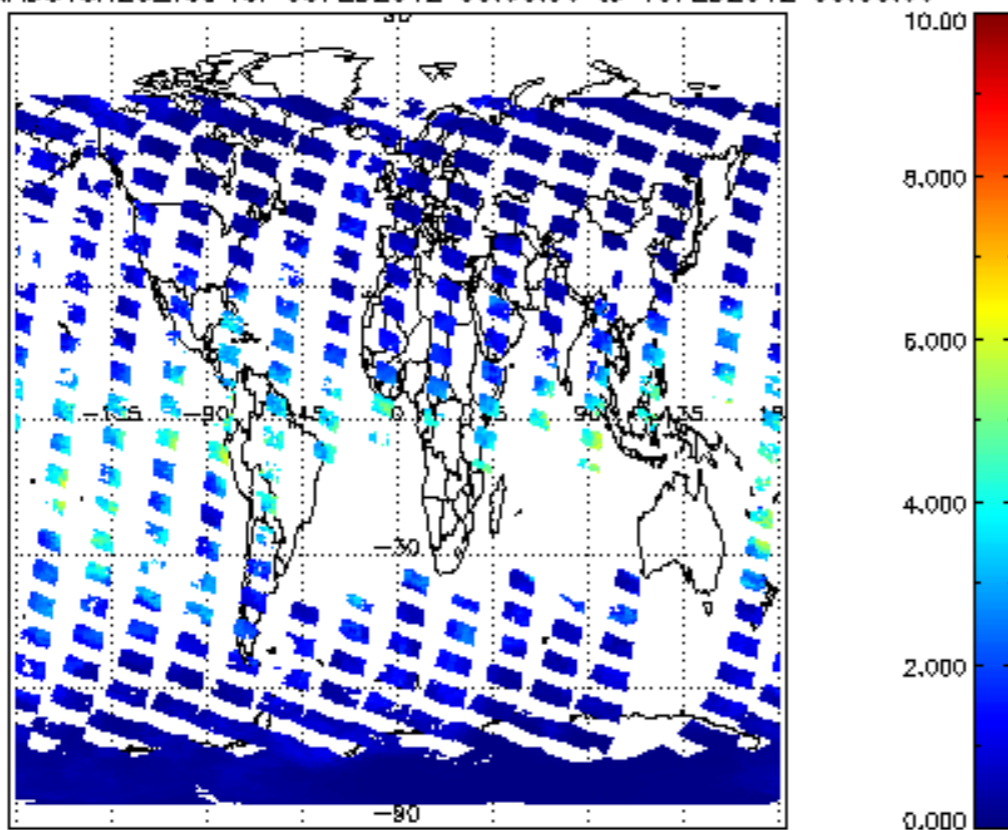


CIOL2P_NADUV6OCL_slant_col_den for 09FEB2012 00:00:00 to 10FEB2012 00:00:00 sp; CIOL2P_NADUV6OCL_err_slant_col for 09FEB2012 00:00:00 to 10FEB2012 00:00:00 sp

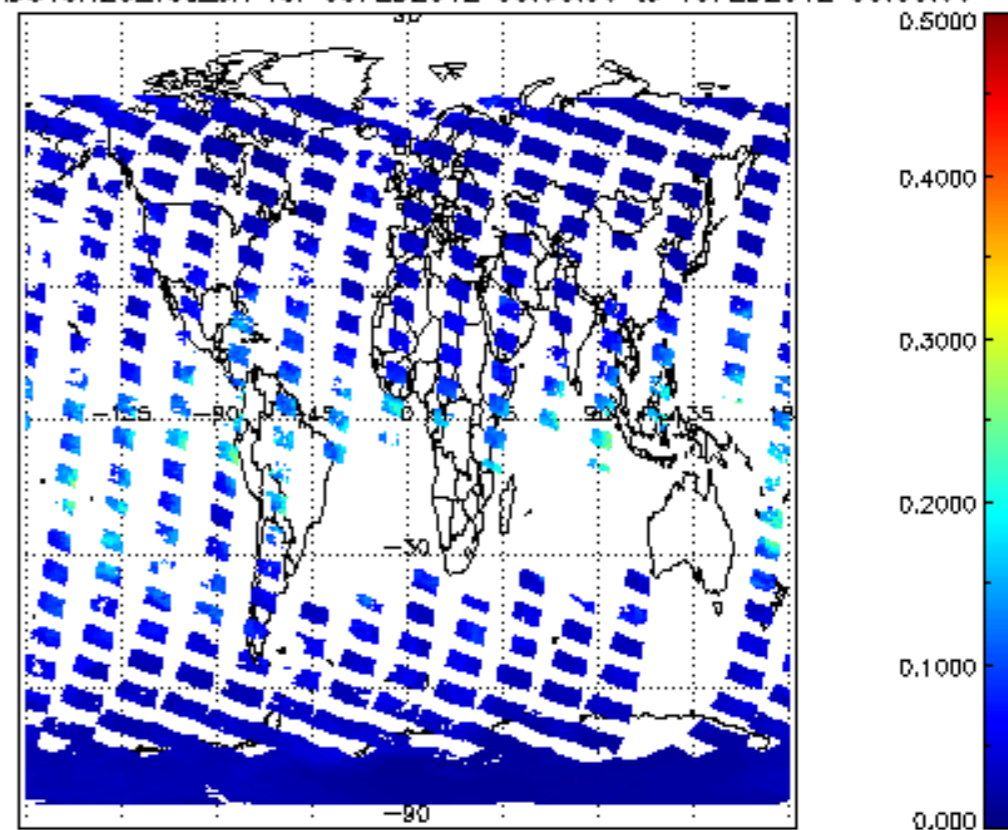




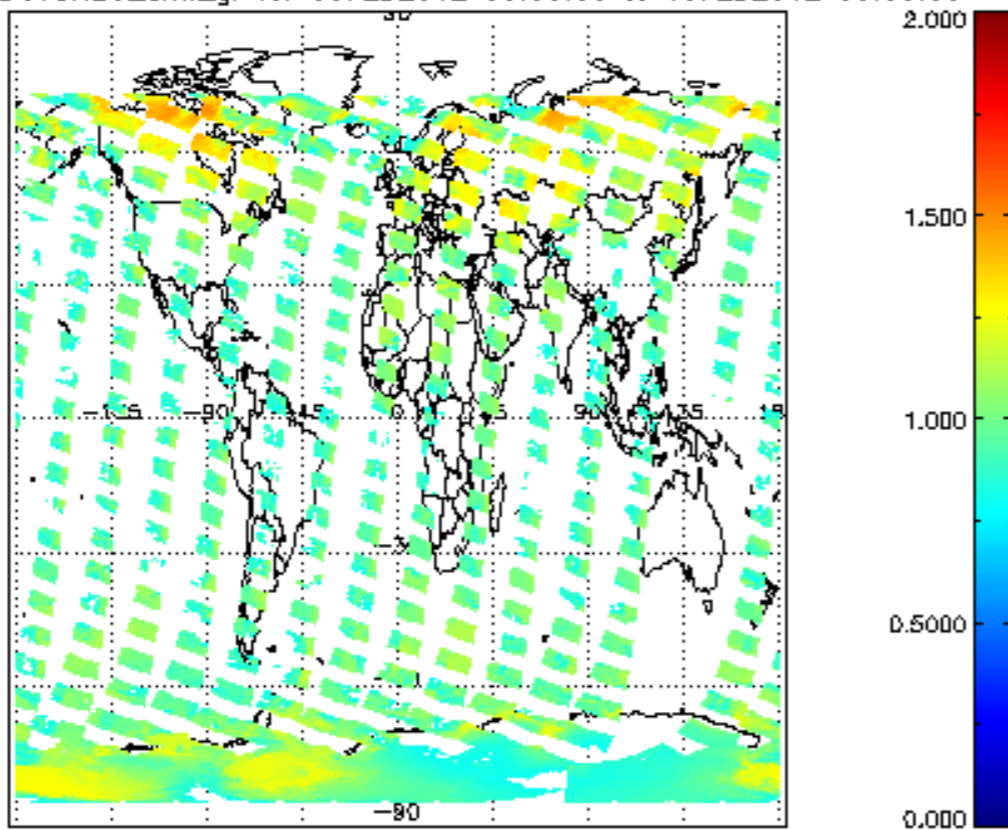
SCIOL2P_NADUV8H20_vcd for 09FEB2012 00:00:00 to 10FEB2012 00:00:00

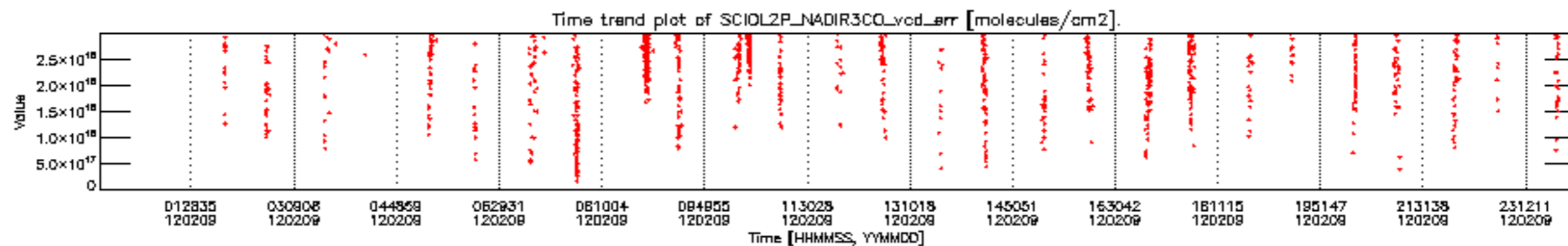
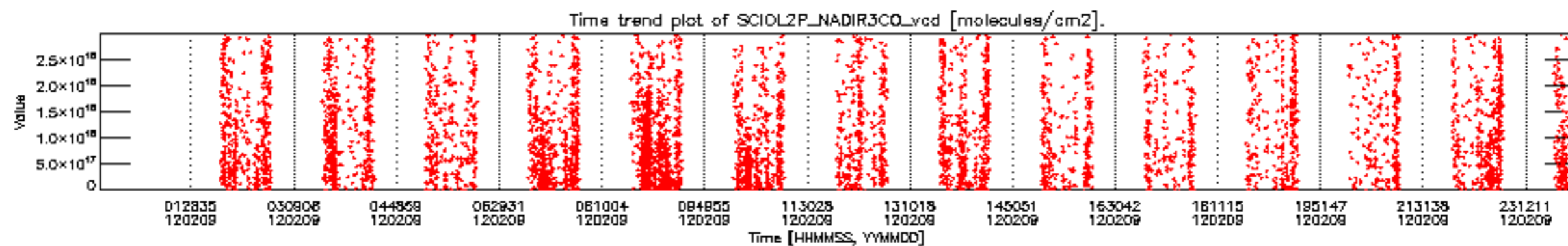


SCIOL2P_NADUV8H20_vcd_err for 09FEB2012 00:00:00 to 10FEB2012 00:00:00

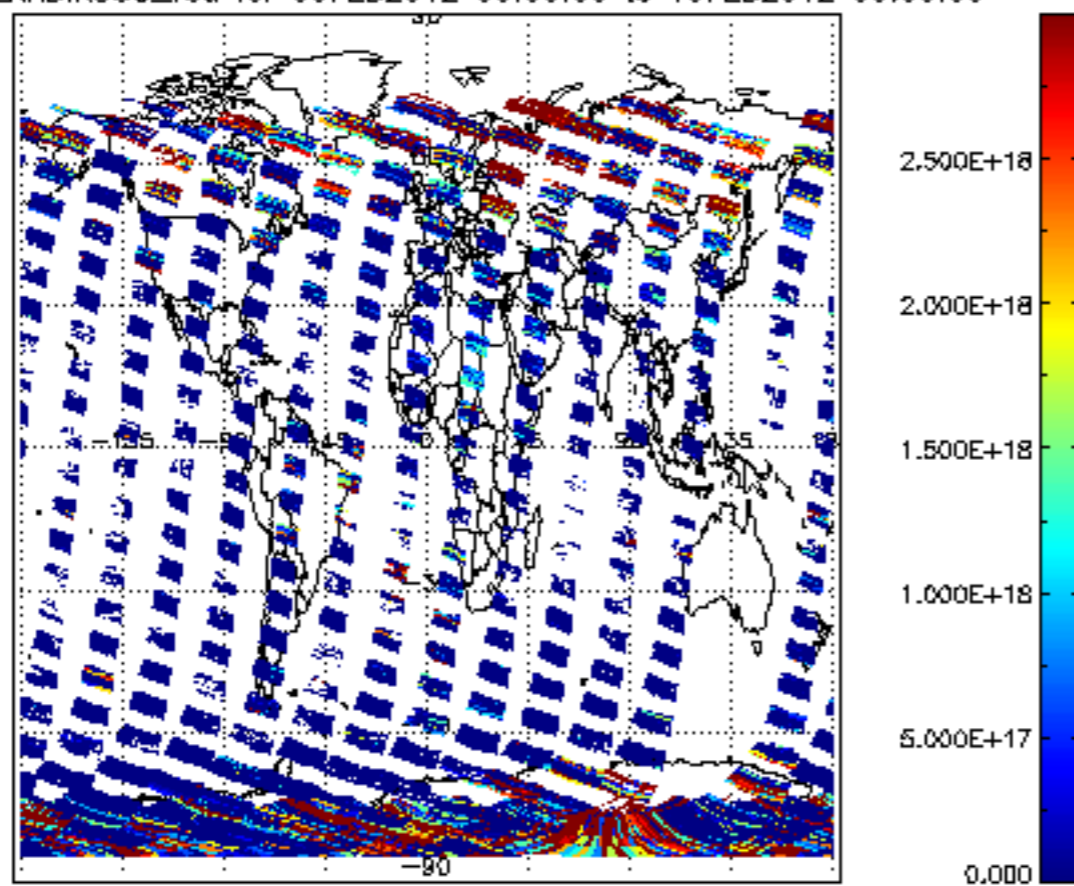


SCIOL2P_NADUV8H20_amf_gr for 09FEB2012 00:00:00 to 10FEB2012 00:00:00

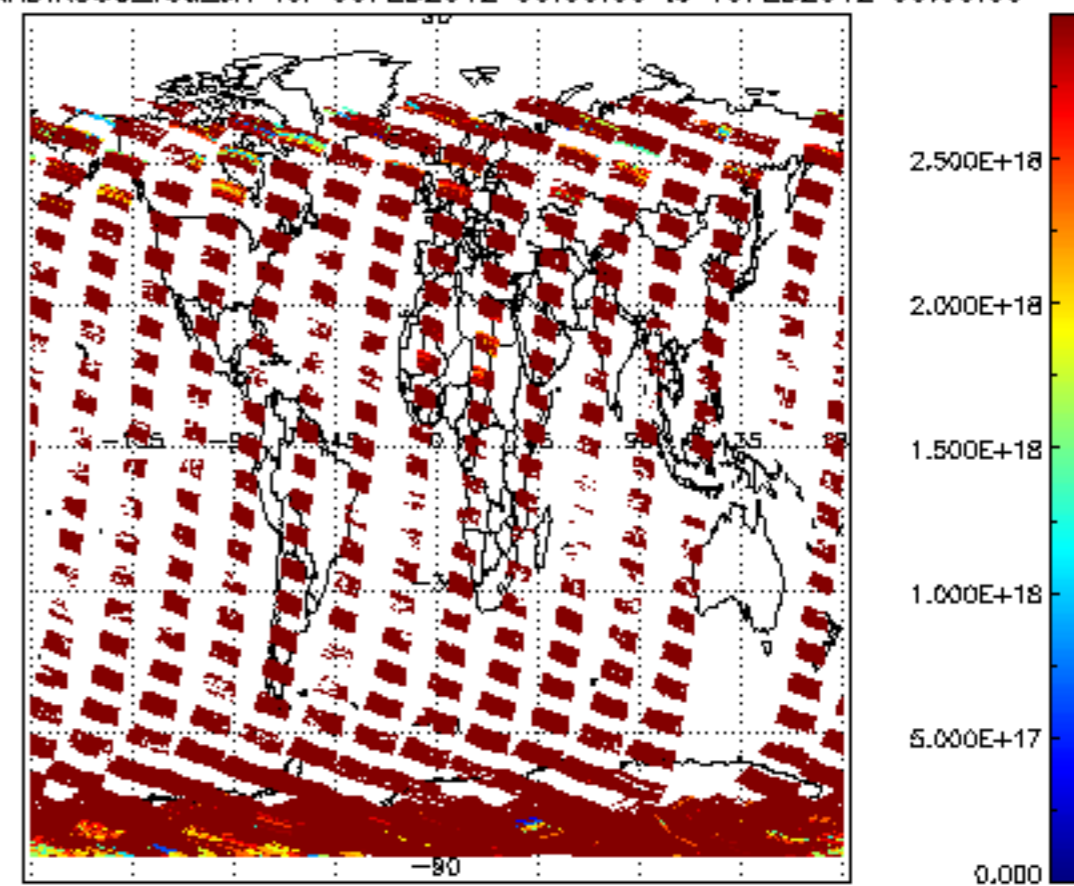




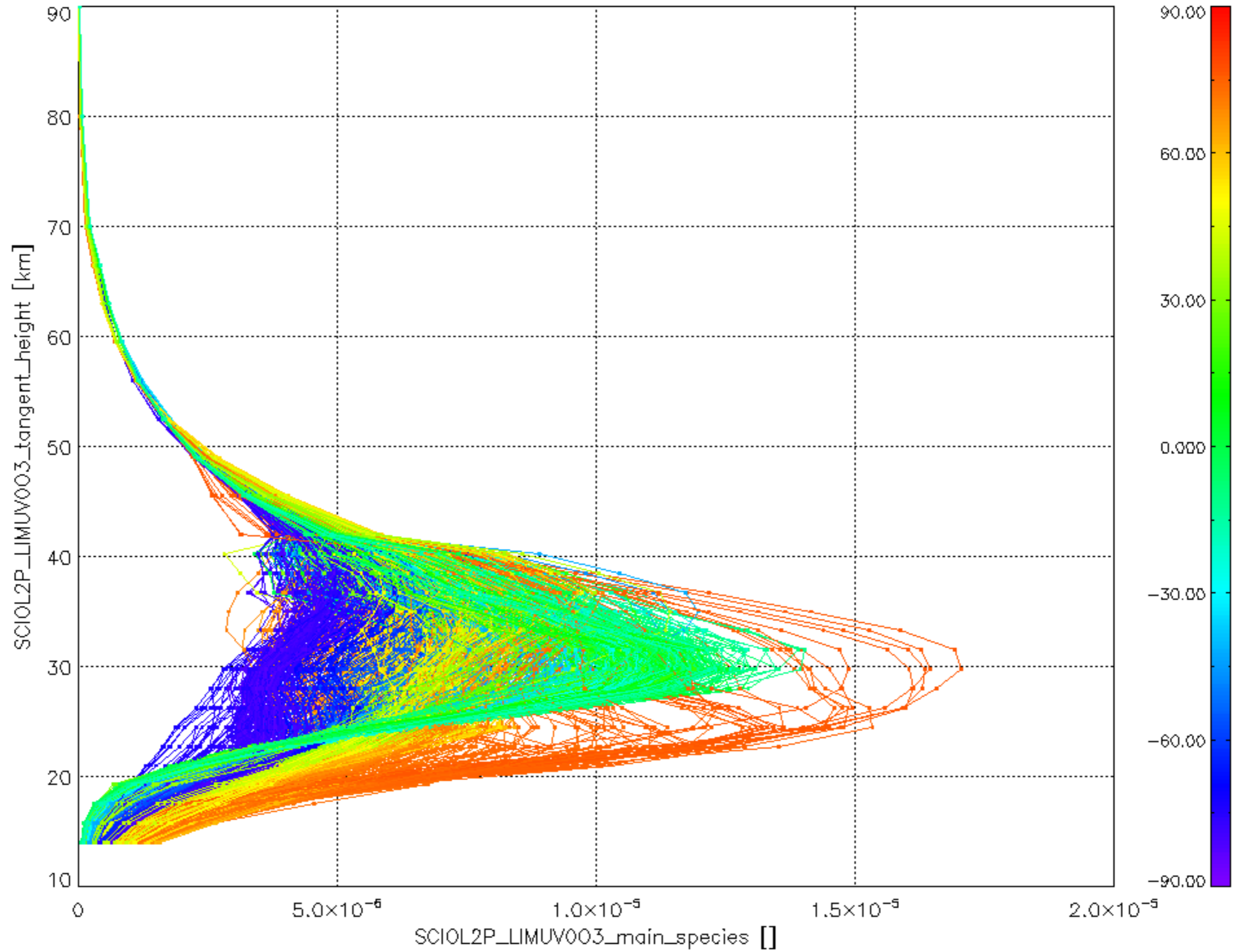
SCIOL2P_NADIR3CO_vcd for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



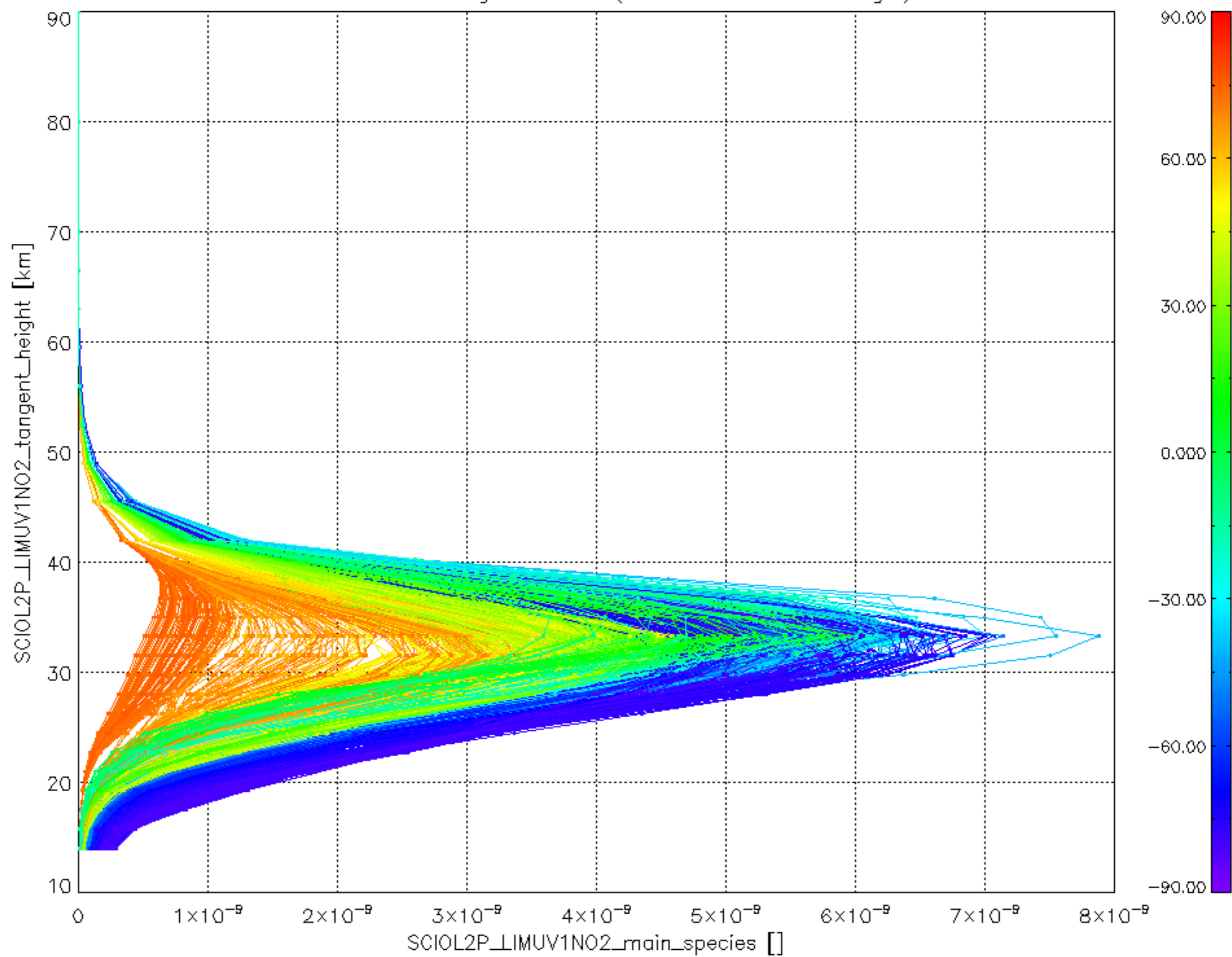
SCIOL2P_NADIR3CO_vcd_err for 09FEB2012 00:00:00 to 10FEB2012 00:00:00



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).

