

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	19FEB2012 03:20:28
Data source version	SCIA-OL/5.02-W
Processing scope for products	06FEB2012 00:00:00 to 07FEB2012 00:00:00
Start time of first product within scope	06FEB2012 00:19:40
Stop time of last product within scope	06FEB2012 19:41:40
Total number of level 2 products	12
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__2PWDPA20120206_001940_000035353111_00232_51970_3406.N1	06FEB2012 00:19:40	06FEB2012 01:18:36	0	GOOD
1	SCI_OL__2PWDPA20120206_015954_000035293111_00233_51971_3407.N1	06FEB2012 01:59:54	06FEB2012 02:58:43	0	GOOD
2	SCI_OL__2PWDPA20120206_034007_000035233111_00234_51972_3408.N1	06FEB2012 03:40:07	06FEB2012 04:38:51	0	GOOD
3	SCI_OL__2PWDPA20120206_052021_000035173111_00235_51973_3409.N1	06FEB2012 05:20:21	06FEB2012 06:18:58	0	GOOD
4	SCI_OL__2PWDPA20120206_070034_000035113111_00236_51974_3412.N1	06FEB2012 07:00:34	06FEB2012 07:59:06	0	GOOD

5	SCI_OL__2PWDP20120206_084048_000035733111_00237_51975_3414.N1	06FEB2012 08:40:48	06FEB2012 09:40:21	0	GOOD
6	SCI_OL__2PWDP20120206_102101_000035663111_00238_51976_3415.N1	06FEB2012 10:21:01	06FEB2012 11:20:28	0	GOOD
7	SCI_OL__2PWDP20120206_120115_000035603111_00239_51977_3413.N1	06FEB2012 12:01:15	06FEB2012 13:00:35	0	GOOD
8	SCI_OL__2PWDP20120206_134128_000035303111_00240_51978_3416.N1	06FEB2012 13:41:28	06FEB2012 14:40:19	0	GOOD
9	SCI_OL__2PWDP20120206_152142_000035163111_00241_51979_3417.N1	06FEB2012 15:21:42	06FEB2012 16:20:18	0	GOOD
10	SCI_OL__2PWDP20120206_170155_000035303111_00242_51980_3418.N1	06FEB2012 17:01:55	06FEB2012 18:00:46	0	GOOD
11	SCI_OL__2PWDP20120206_184342_000034783111_00243_51981_3419.N1	06FEB2012 18:43:42	06FEB2012 19:41:40	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: 116220

Total number of cloud data DSRs with good quality flag (=0): 116220 (100.0 %)

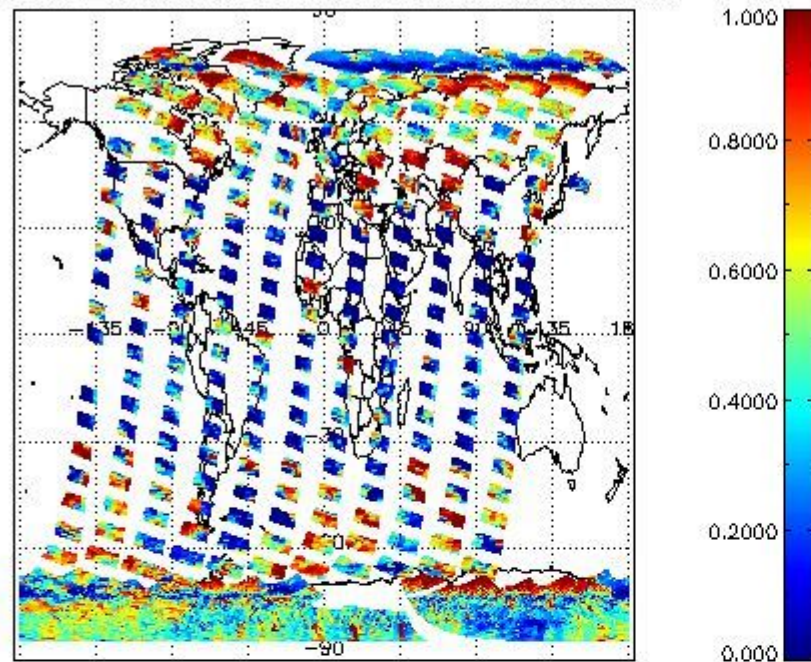
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	116220	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	116220	0.16946	0.12500	0.12500	0.25000	0.059841	s
CL_FRAC	116220	0.44144	0.41742	0.0000	1.0000	0.31751	
CL_FRAC_ERR	116220	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	116220	5.4228	4.0000	4.0000	8.0000	1.9149	
PMD_READ_CL[0]	116220	0.58011	0.0000	0.0000	8.0000	1.5232	-
PMD_READ_CL[1]	116220	1.1988	0.0000	0.0000	8.0000	2.4789	-
CL_TOP_HEIGHT	90902	3.8256	2.5136	0.0000	17.000	3.7863	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	90902	51.729	39.759	0.0000	101.00	40.776	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	116220	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	116220	11001100	11000100	11000000	11100000	3524.9	
AERO_ABSO_IND	116220	0.10689	0.0000	0.0000	9.5160	0.32571	
AERO_IND_DIAG	116220	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	116220	01010111	00000000	00000000	11000000	24486.	

Time and geolocation plots:

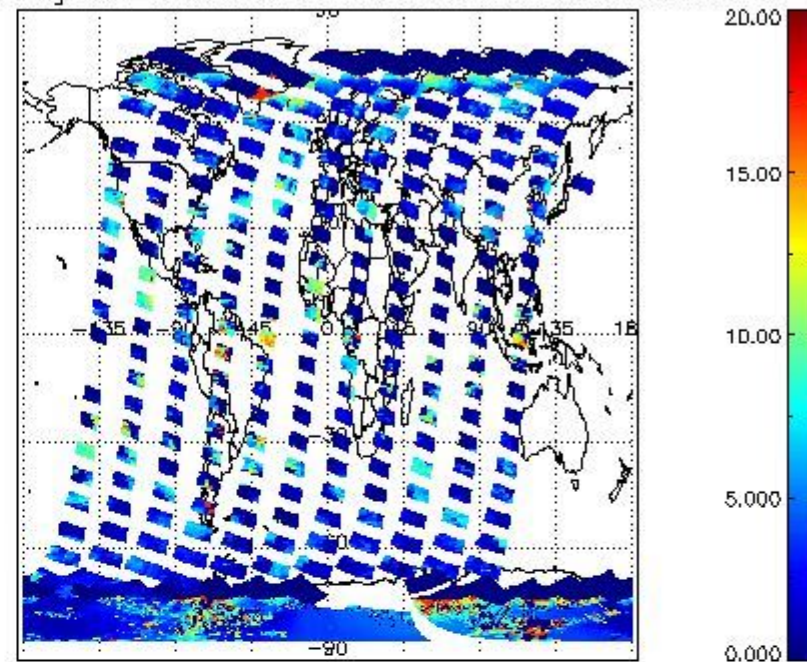
Plots are available for the following parameters:

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

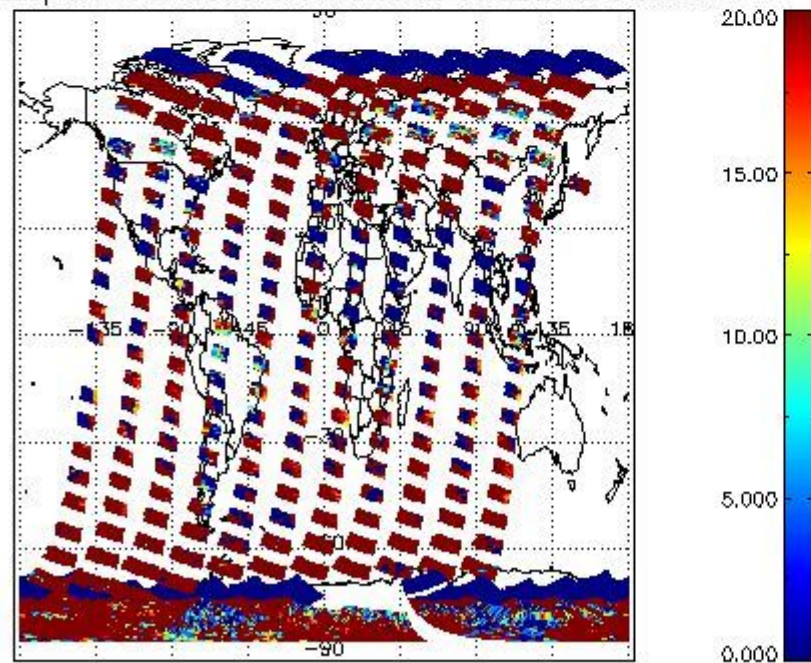
cL_frae for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



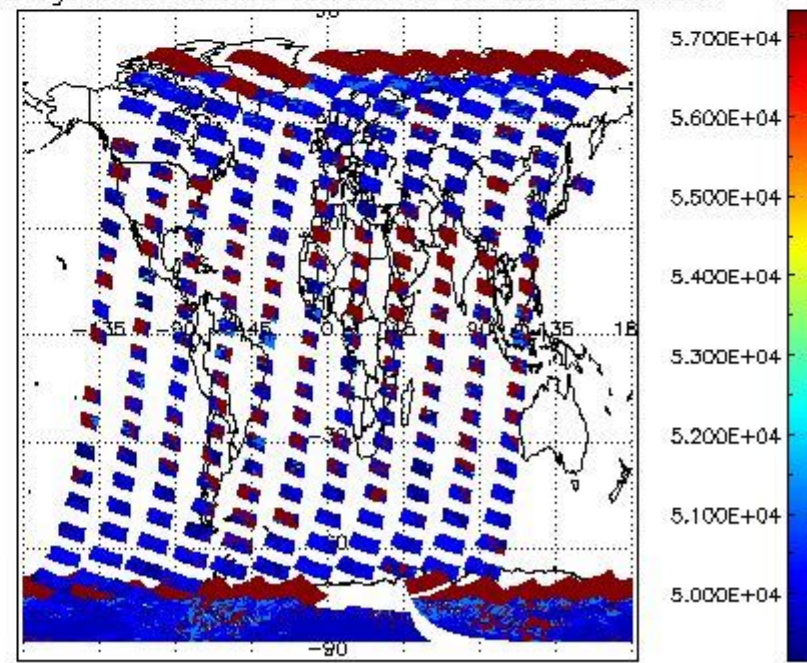
cL_top_height for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



cL_opt_depth for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



cloud_flags for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



2.2.2 Nadir

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

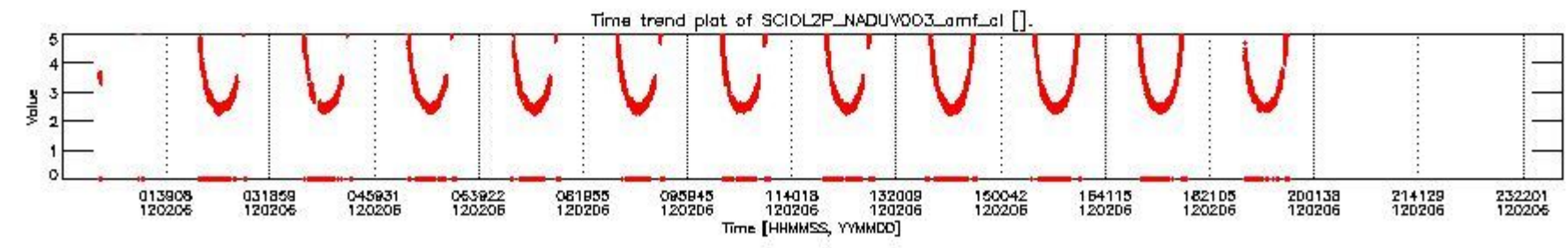
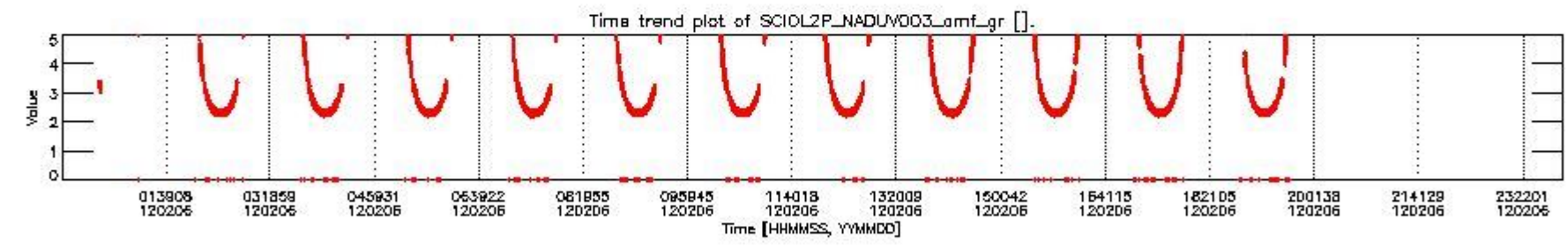
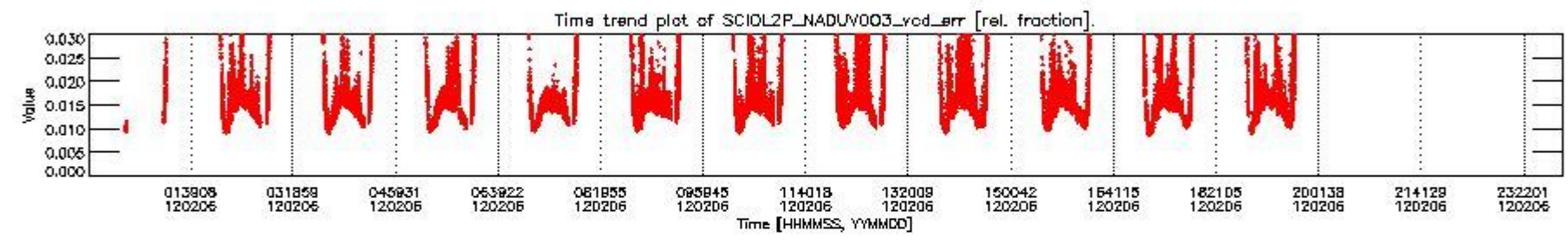
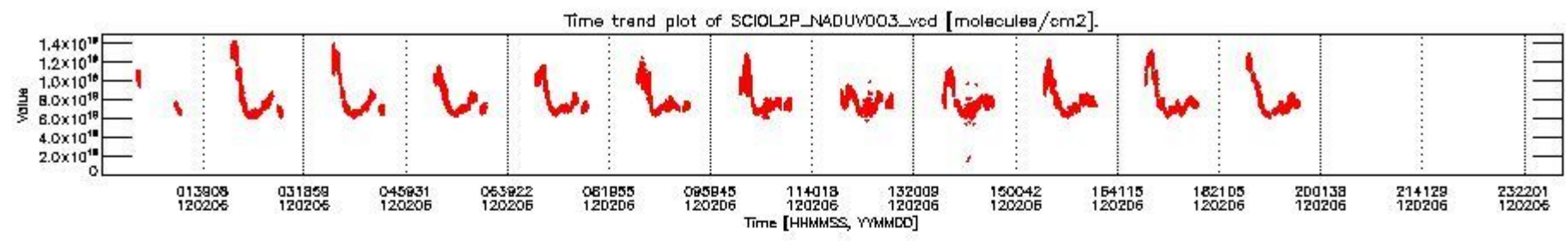
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

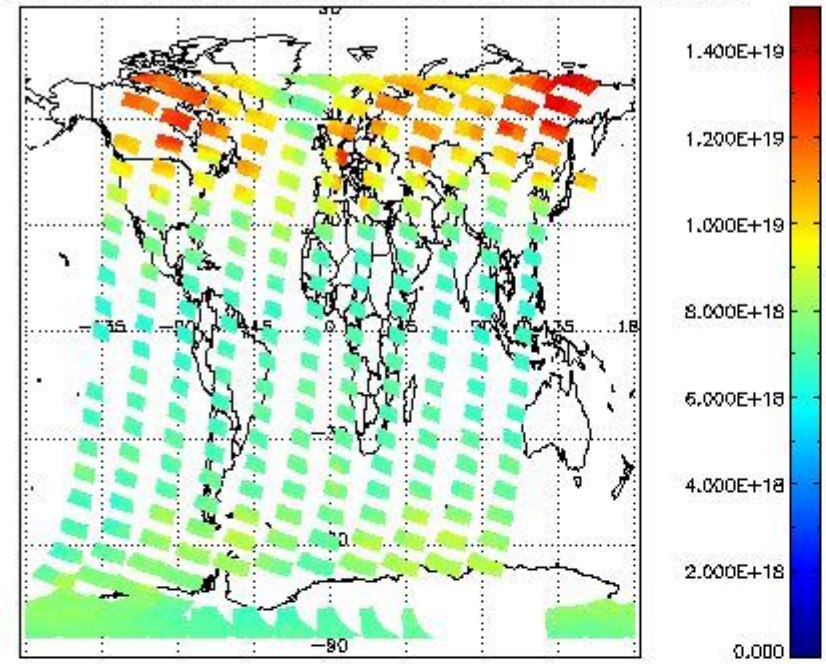
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

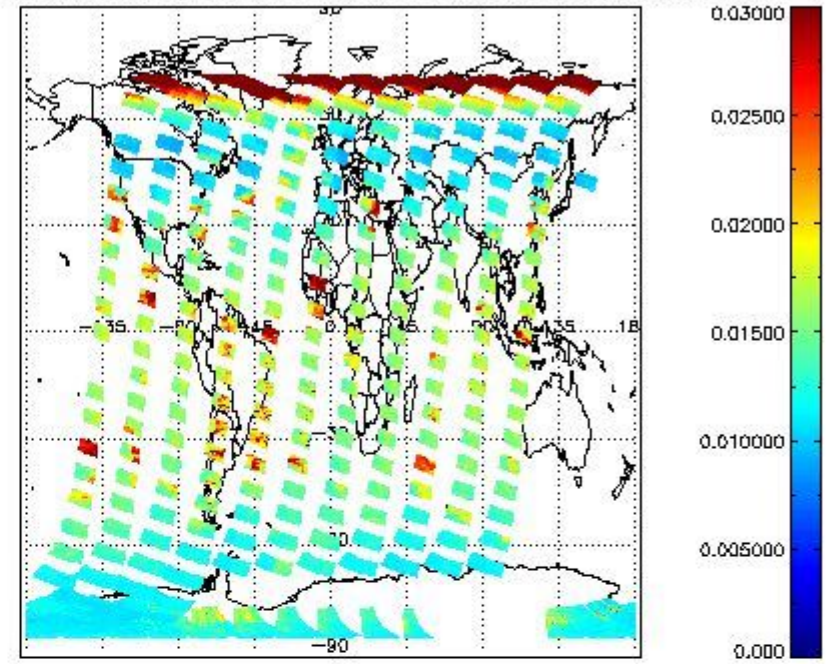
2.2.2.1 O3 (UV0)



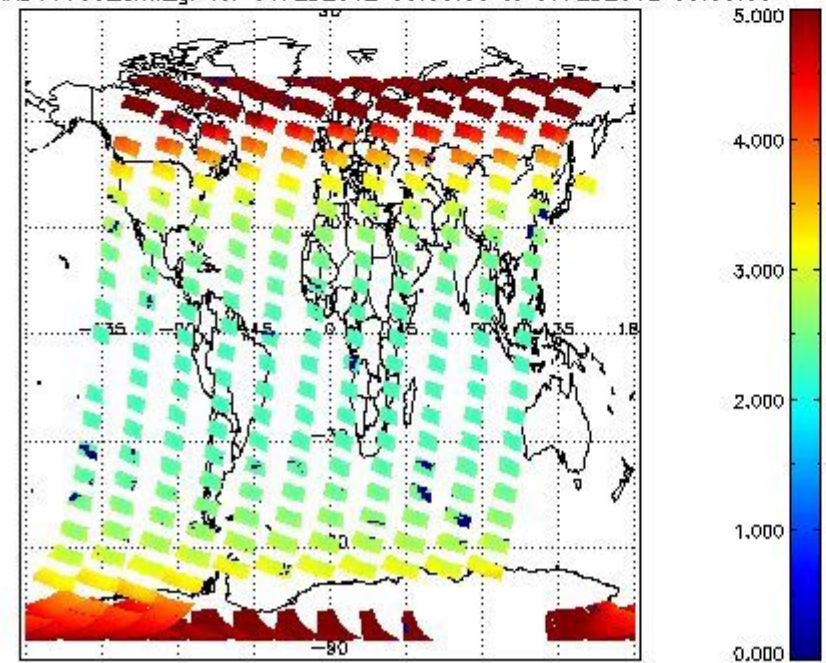
SCIOL2P_NADUV003_vcd for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



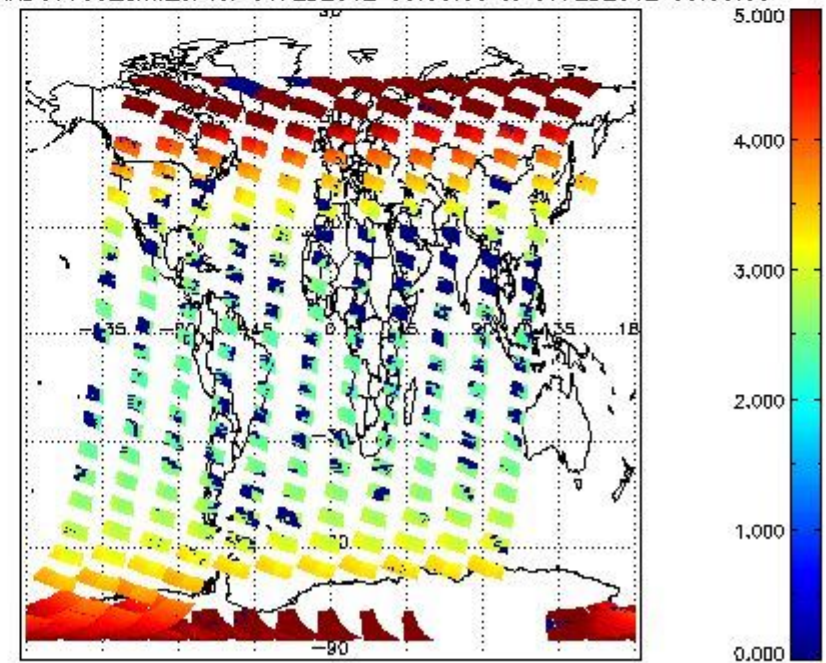
SCIOL2P_NADUV003_vcd_err for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



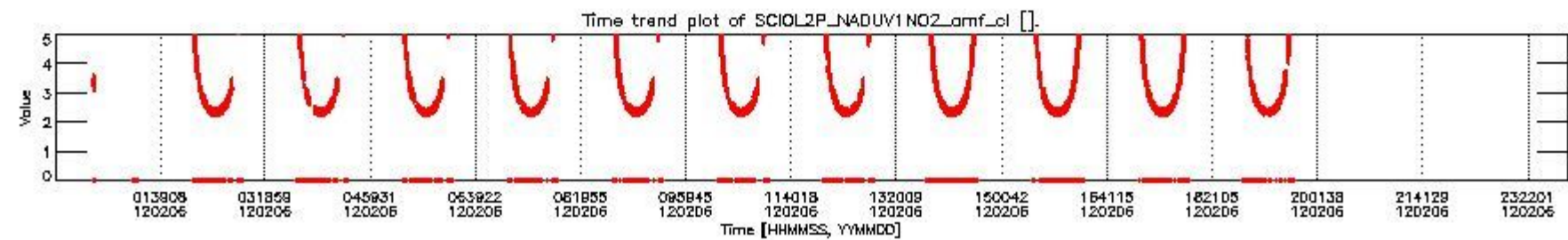
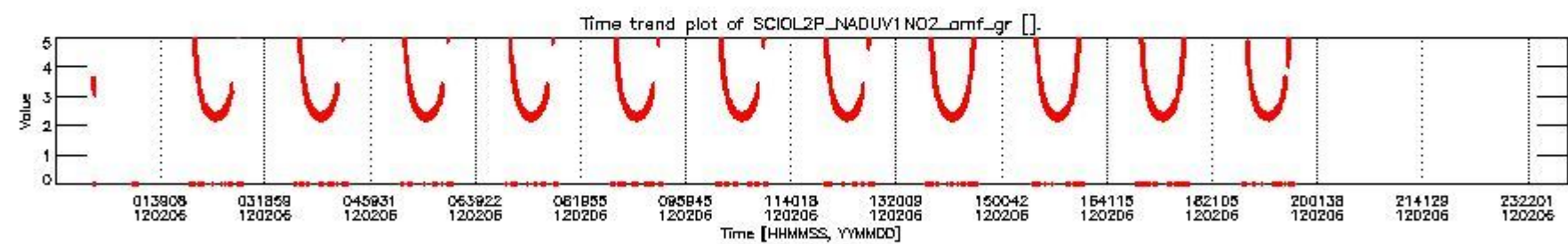
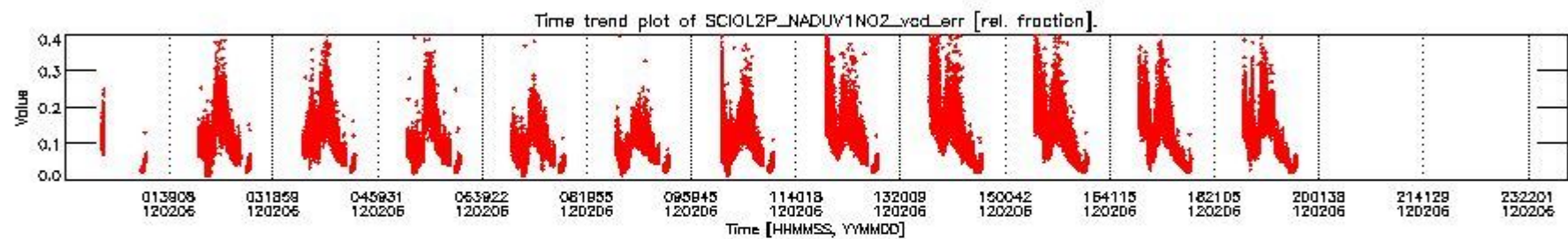
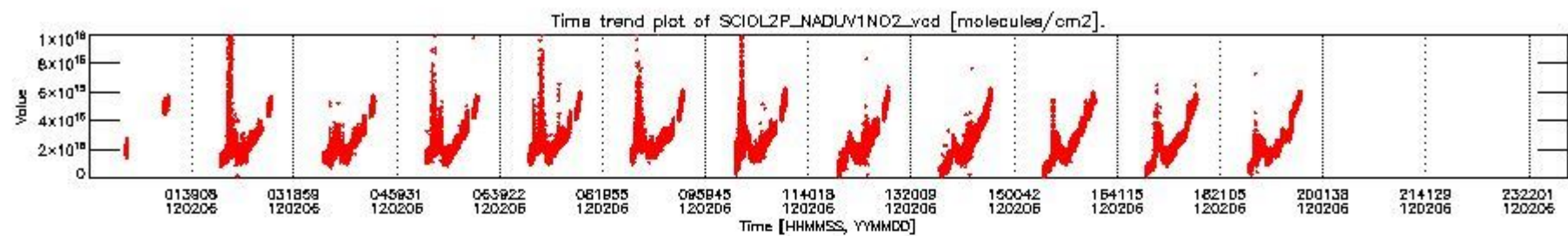
SCIOL2P_NADUV003_amf_gr for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



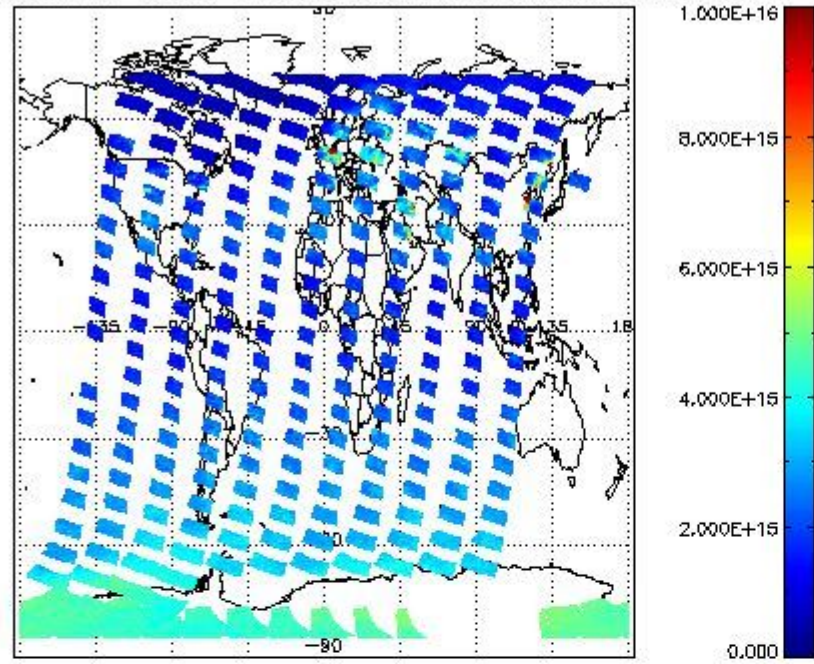
SCIOL2P_NADUV003_amf_cl for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



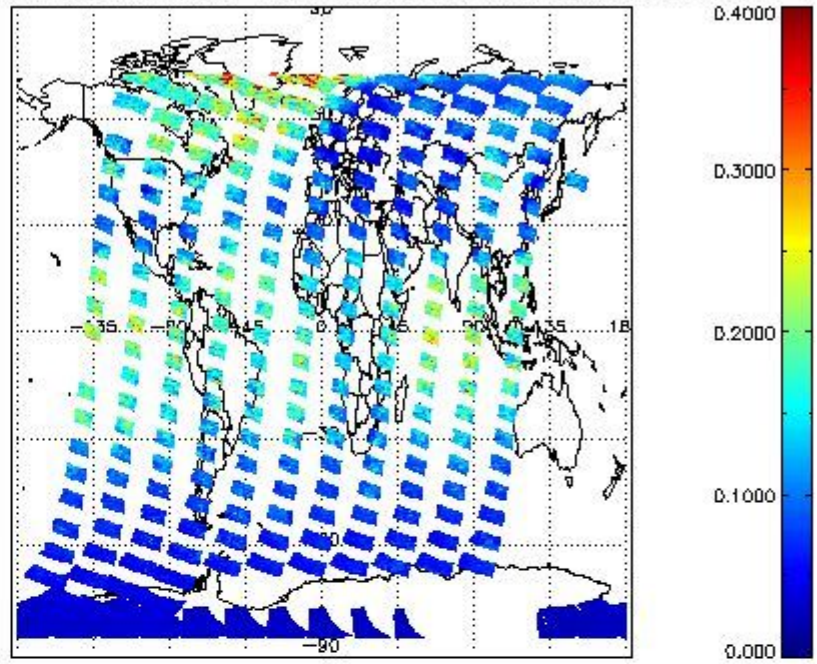
2.2.2.2 NO2 (UV1)



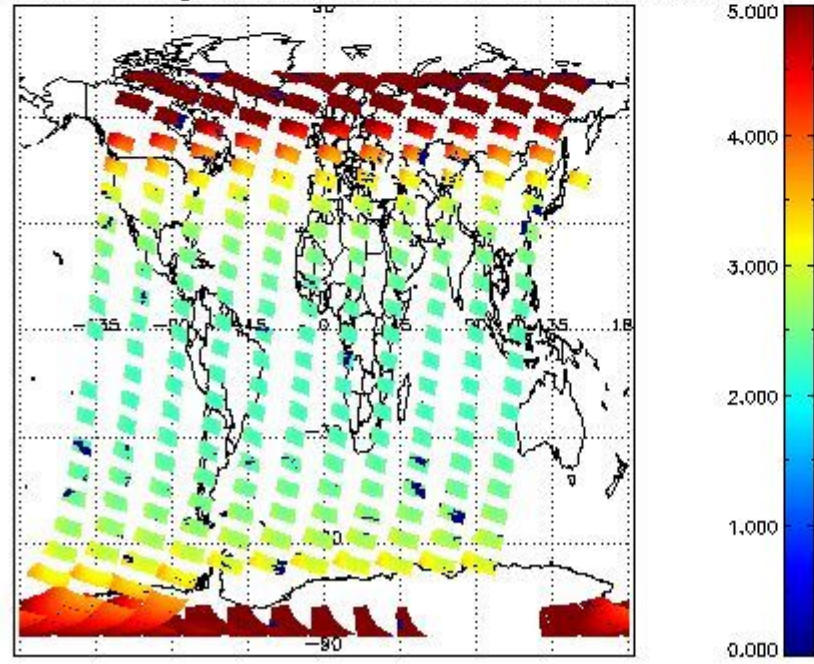
SCIOL2P_NADUV1N02_vcd for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



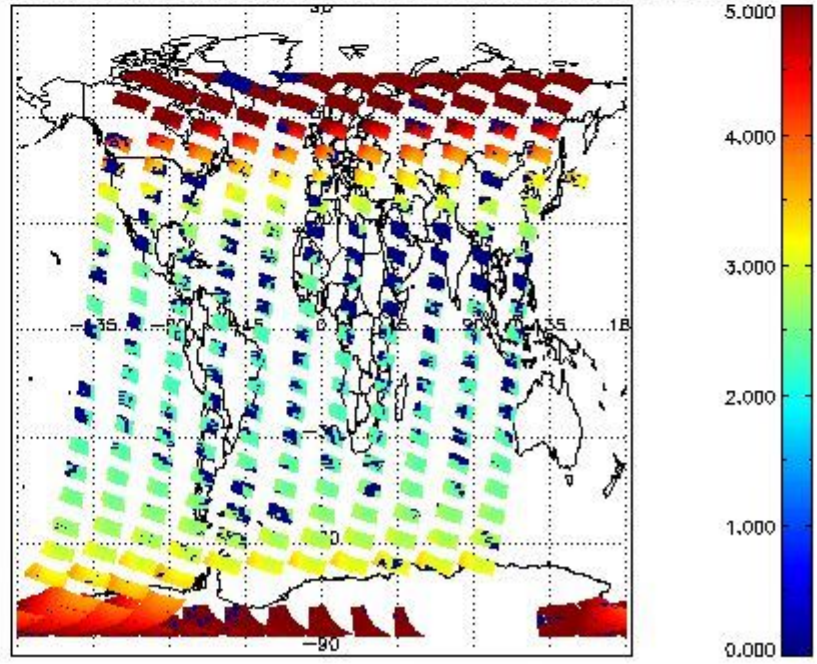
SCIOL2P_NADUV1N02_vcd_err for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



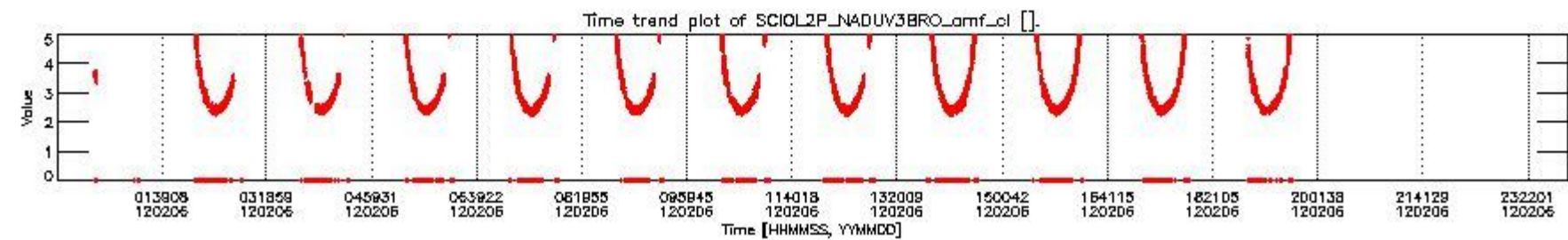
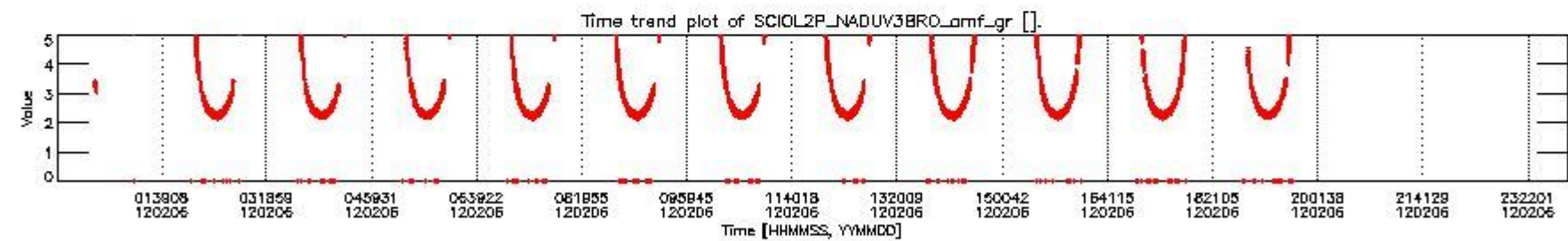
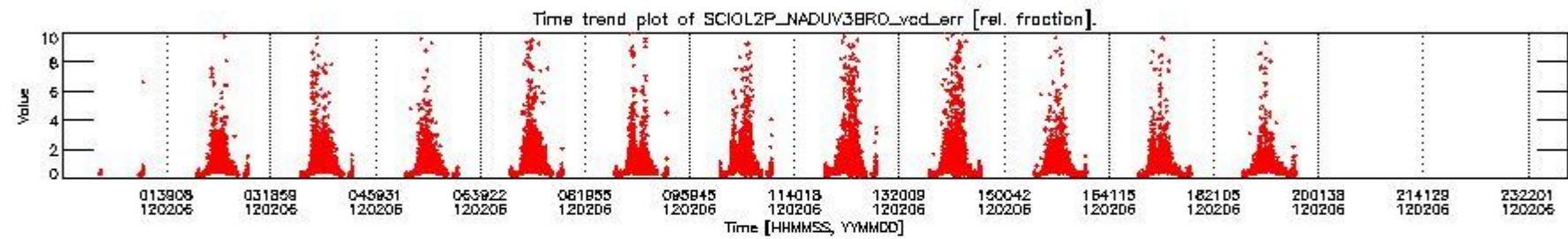
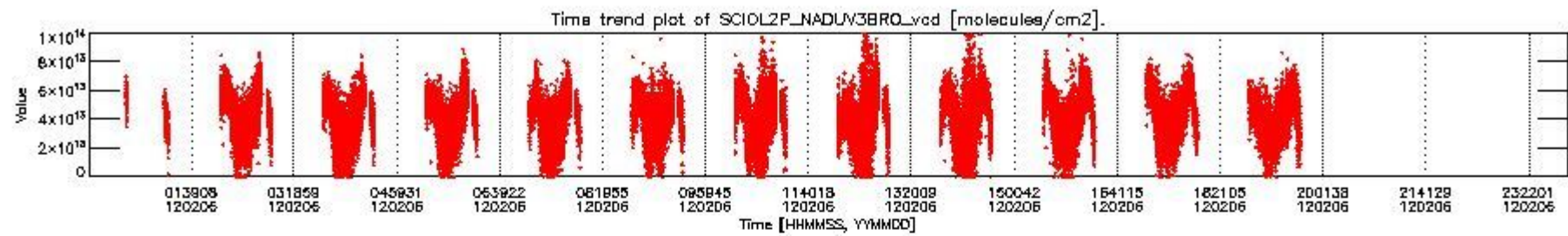
SCIOL2P_NADUV1N02_amf_gr for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



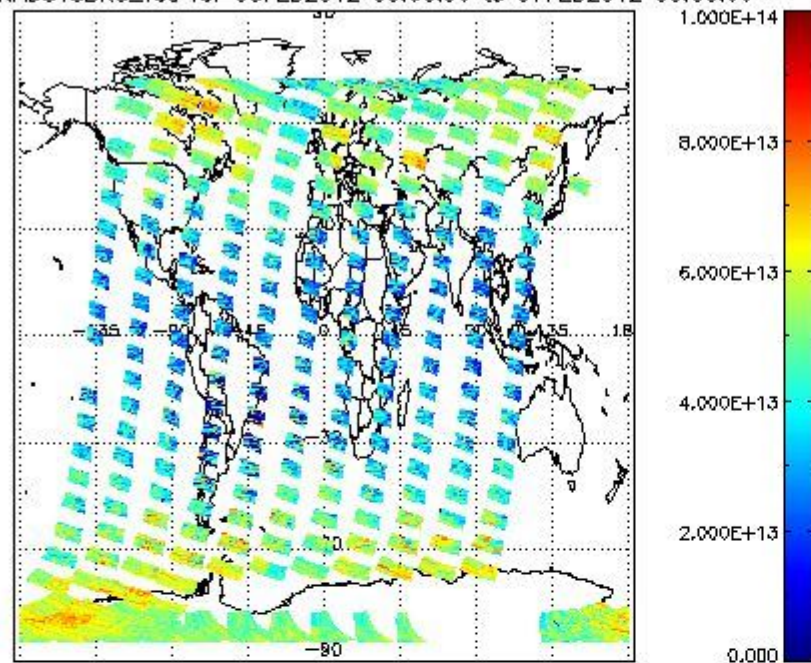
SCIOL2P_NADUV1N02_amf_cl for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



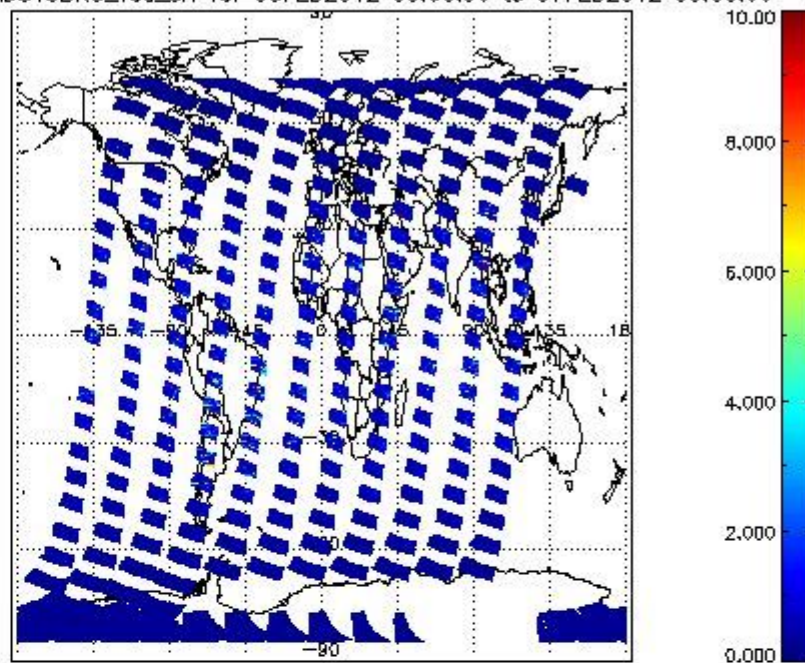
2.2.2.3 BrO (UV3)



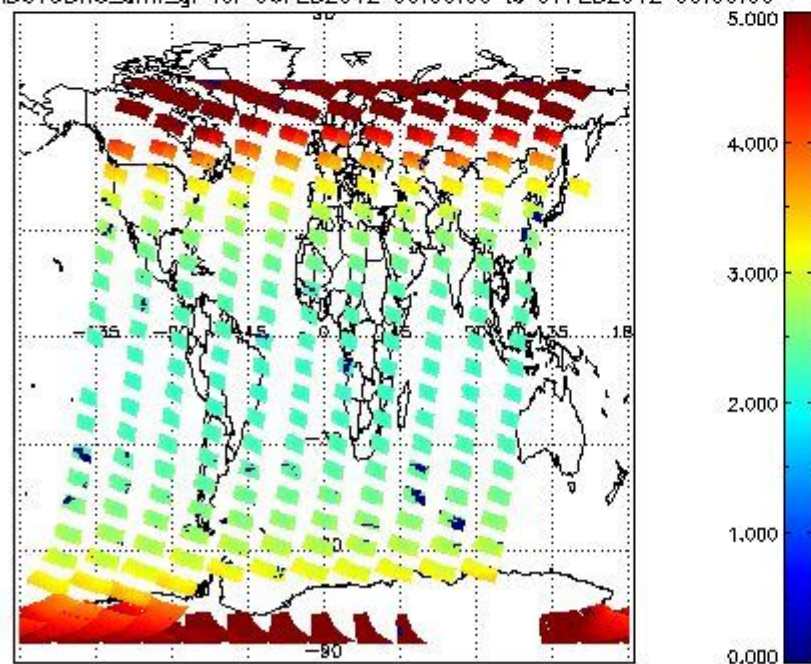
SCIOL2P_NADUV3BRO_vcd for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



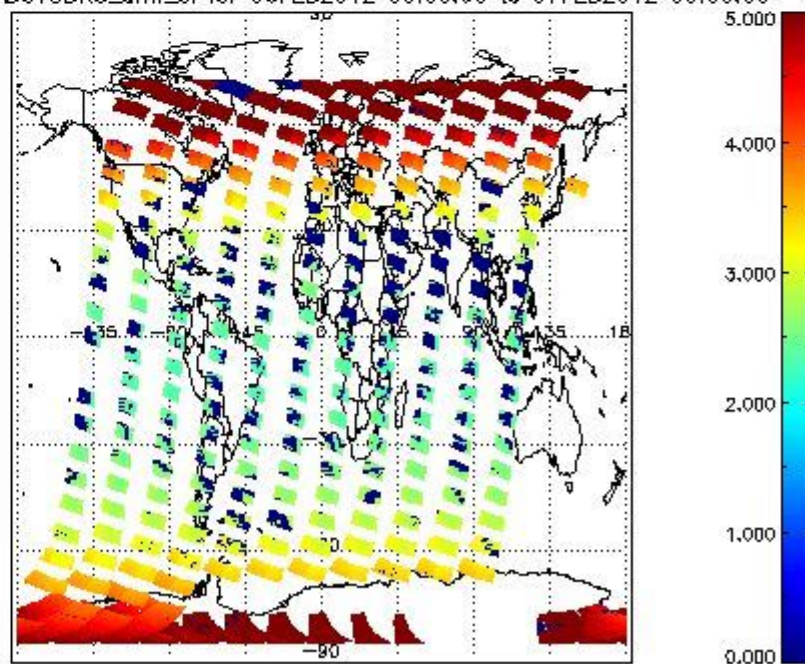
SCIOL2P_NADUV3BRO_vcd_err for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



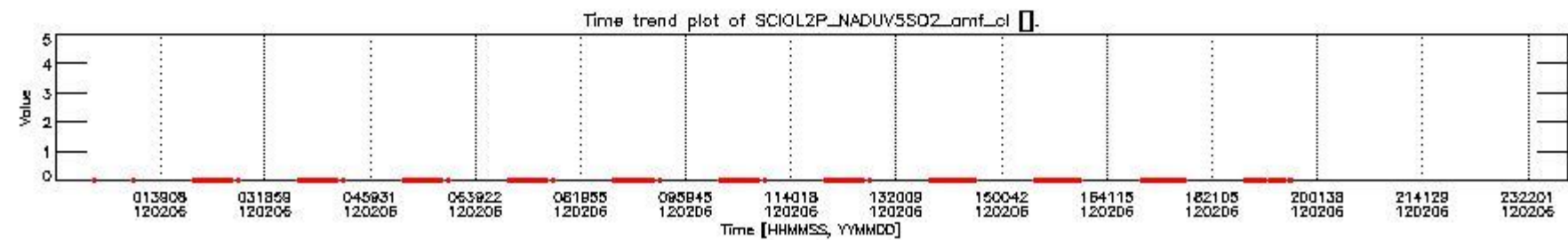
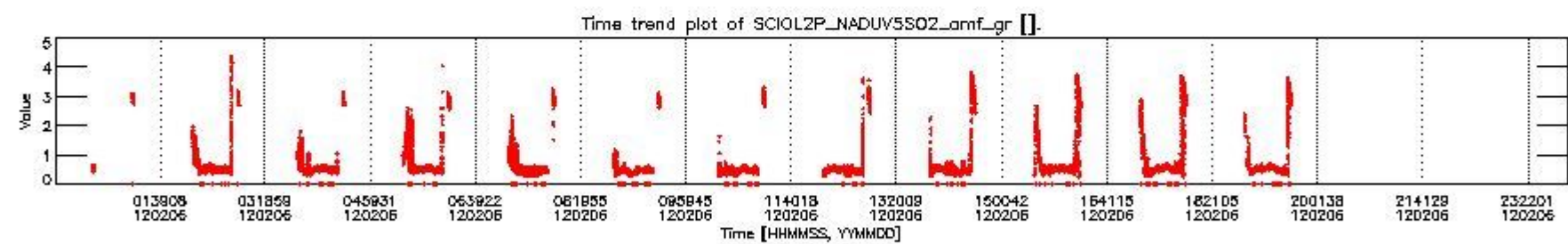
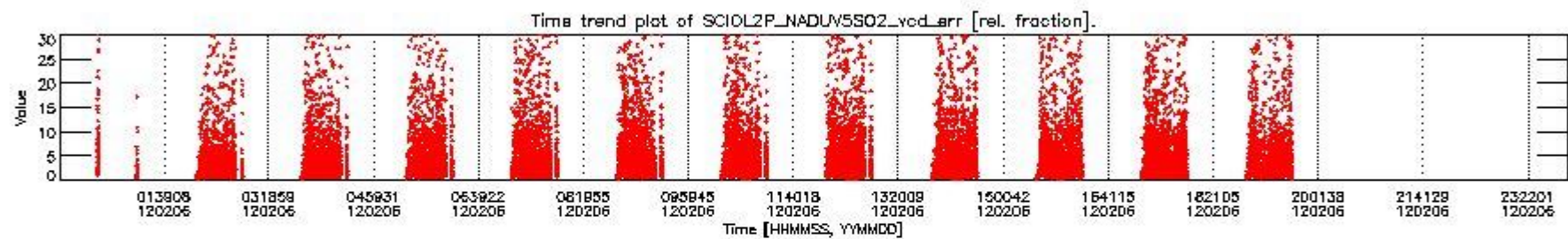
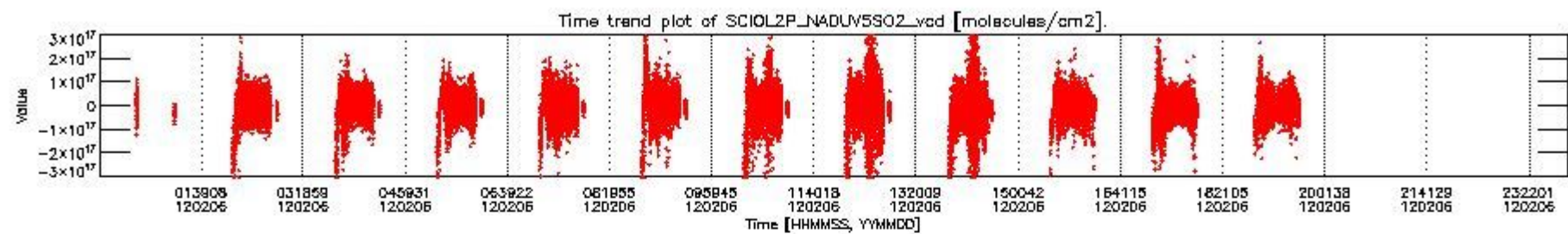
SCIOL2P_NADUV3BRO_amf_gr for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



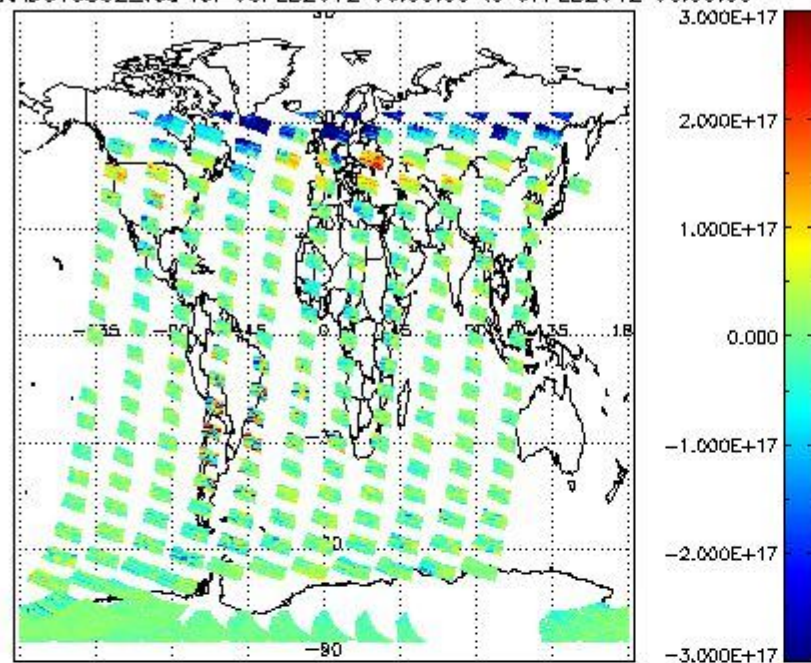
SCIOL2P_NADUV3BRO_amf_cl for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



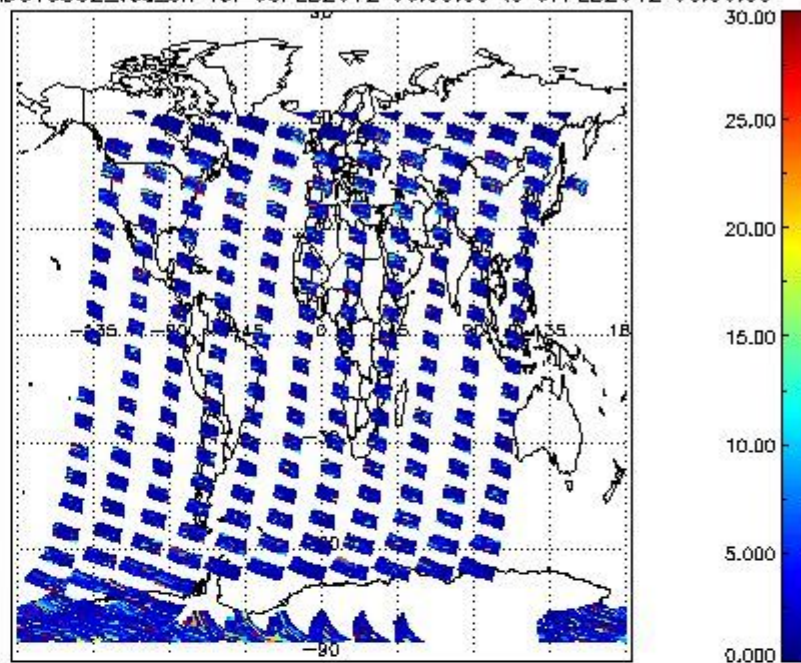
2.2.2.4 SO2 (UV5)



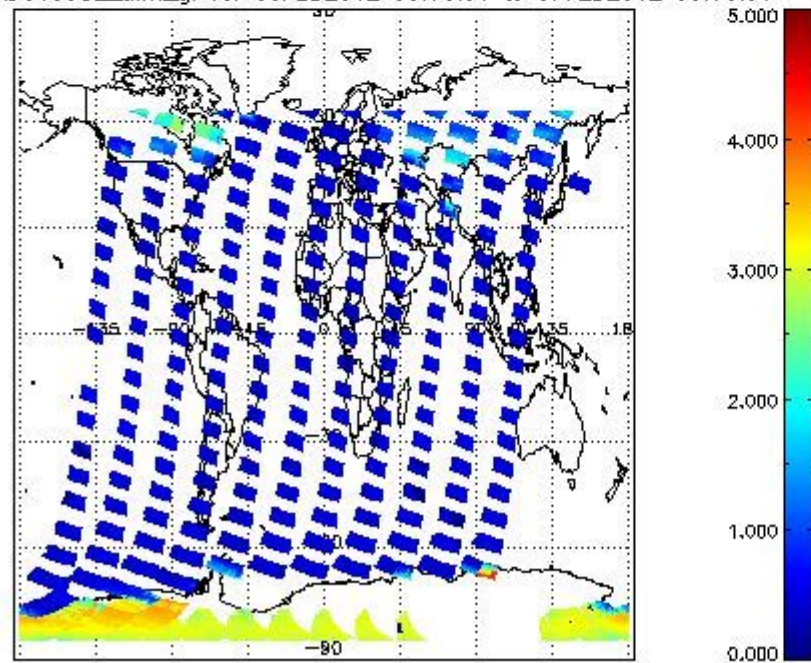
SCIOL2P_NADUV5SO2_vcd for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



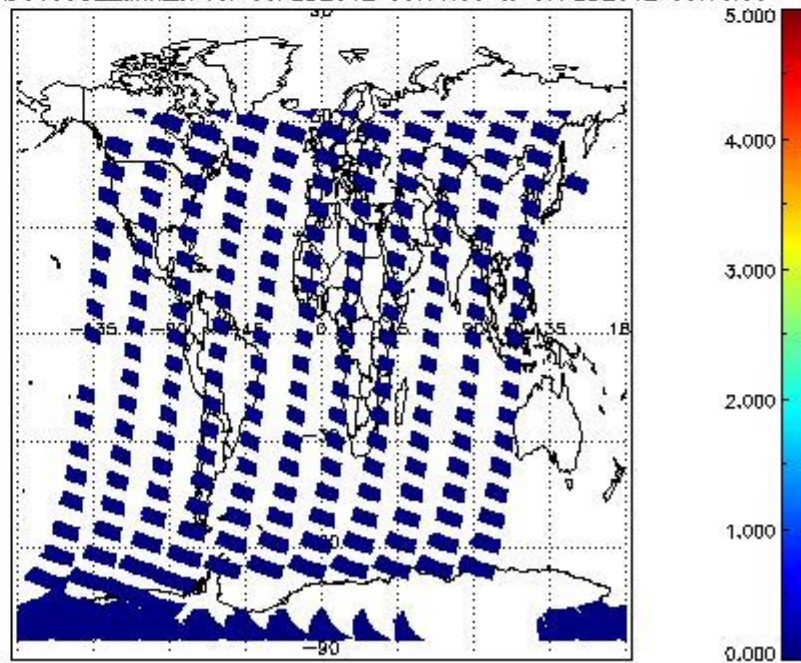
SCIOL2P_NADUV5SO2_vcd_err for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



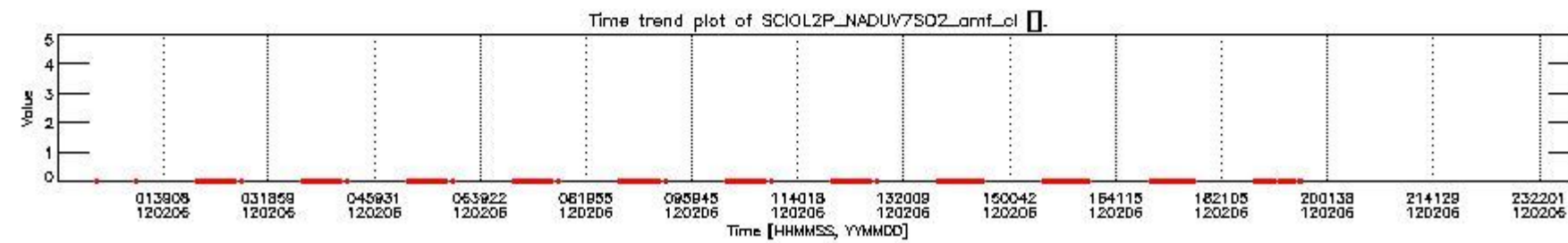
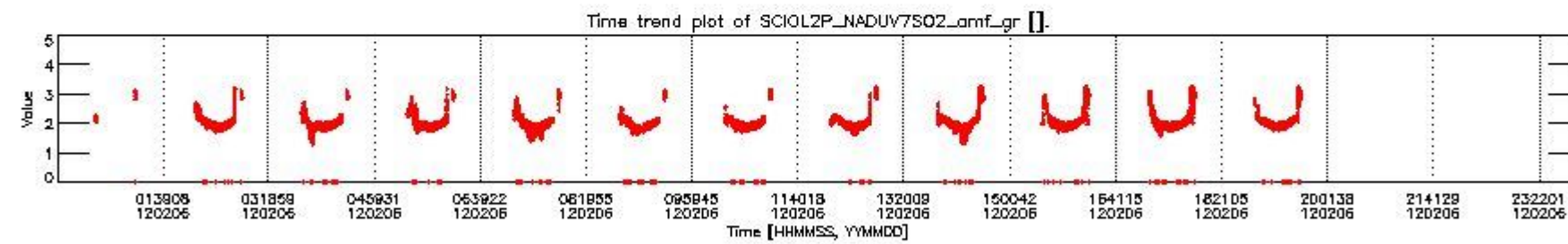
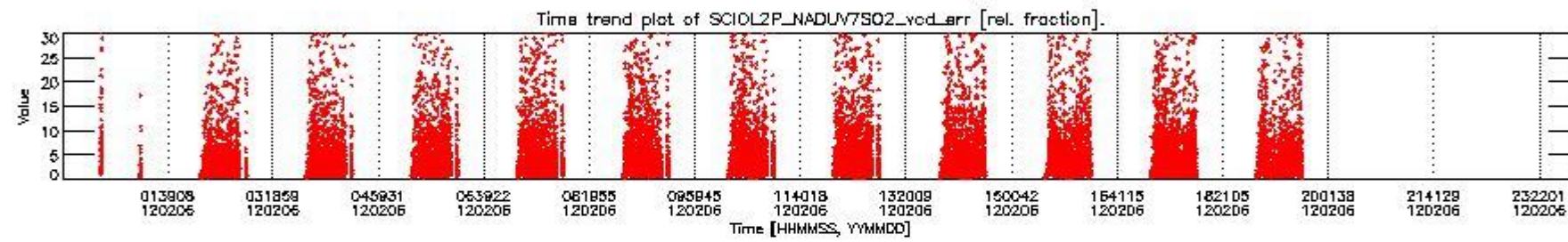
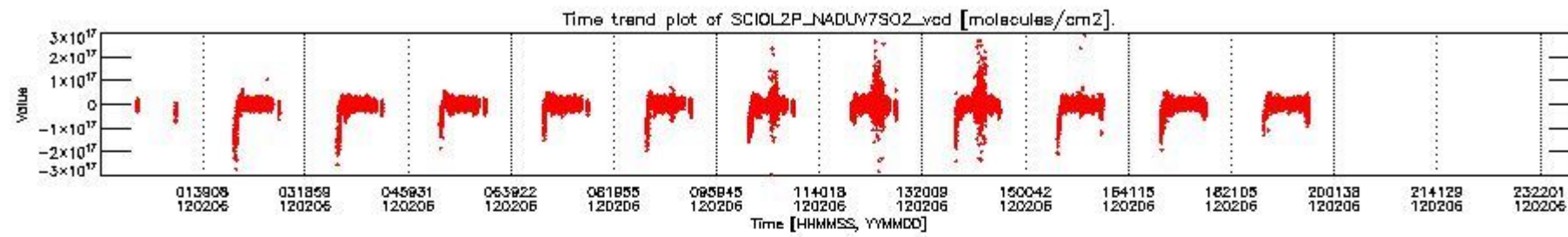
SCIOL2P_NADUV5SO2_amf_gr for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



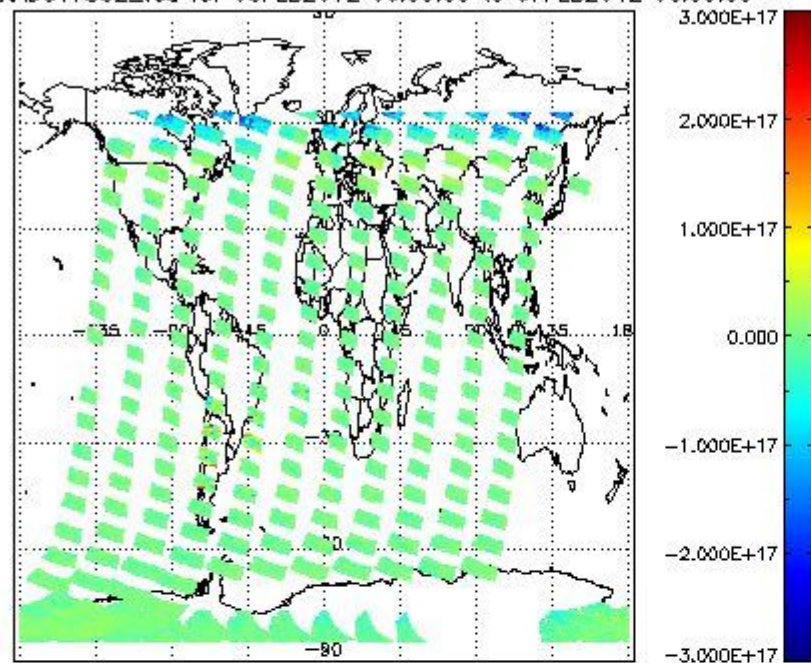
SCIOL2P_NADUV5SO2_amf_cl for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



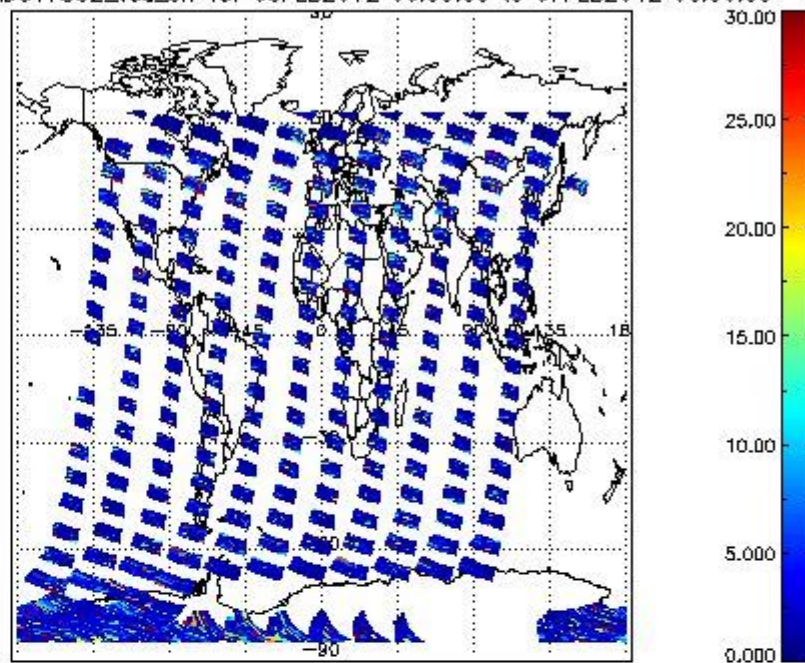
2.2.2.5 SO2 (UV7)



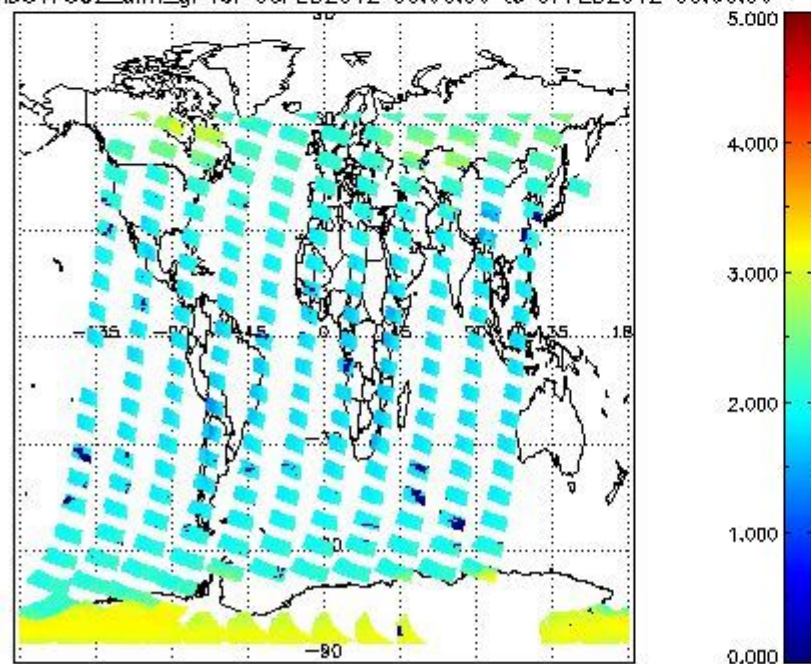
SCIOL2P_NADUV7S02_vcd for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



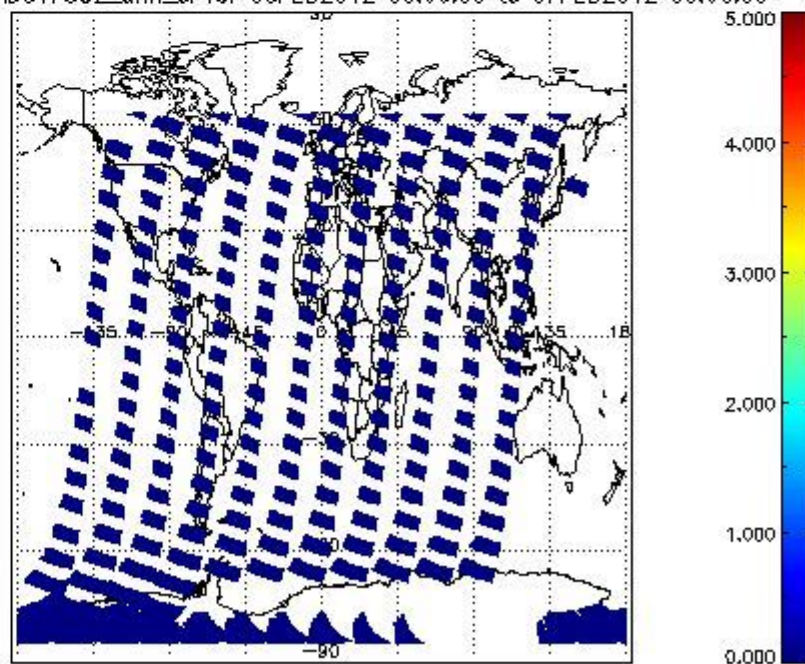
SCIOL2P_NADUV7S02_vcd_err for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



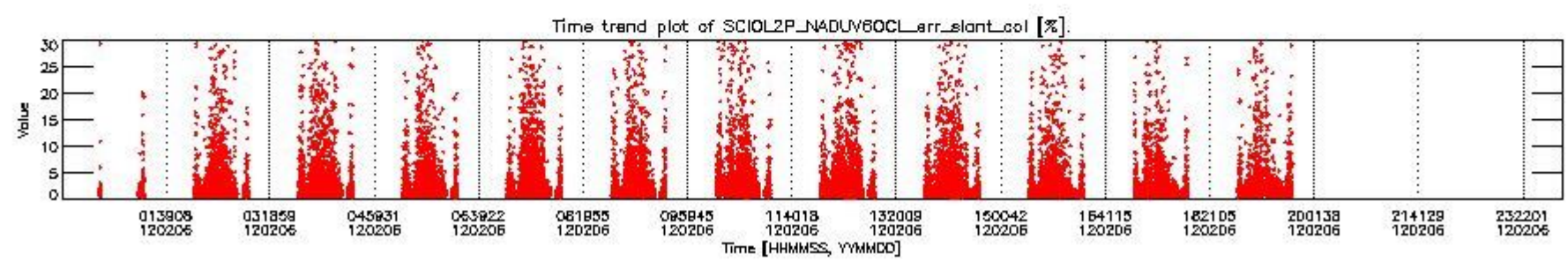
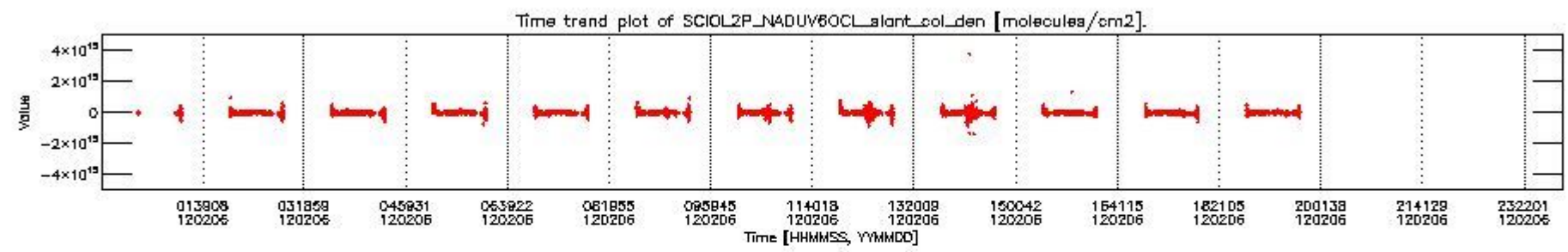
SCIOL2P_NADUV7S02_amf_gr for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



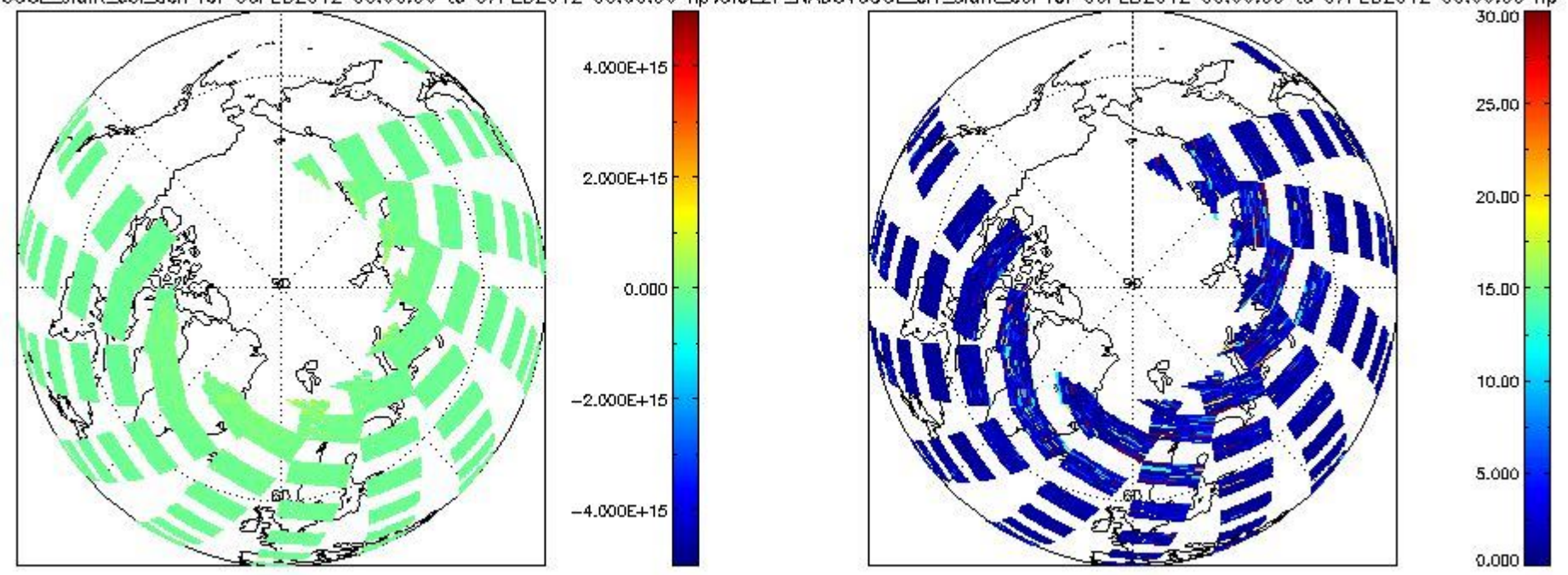
SCIOL2P_NADUV7S02_amf_cl for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



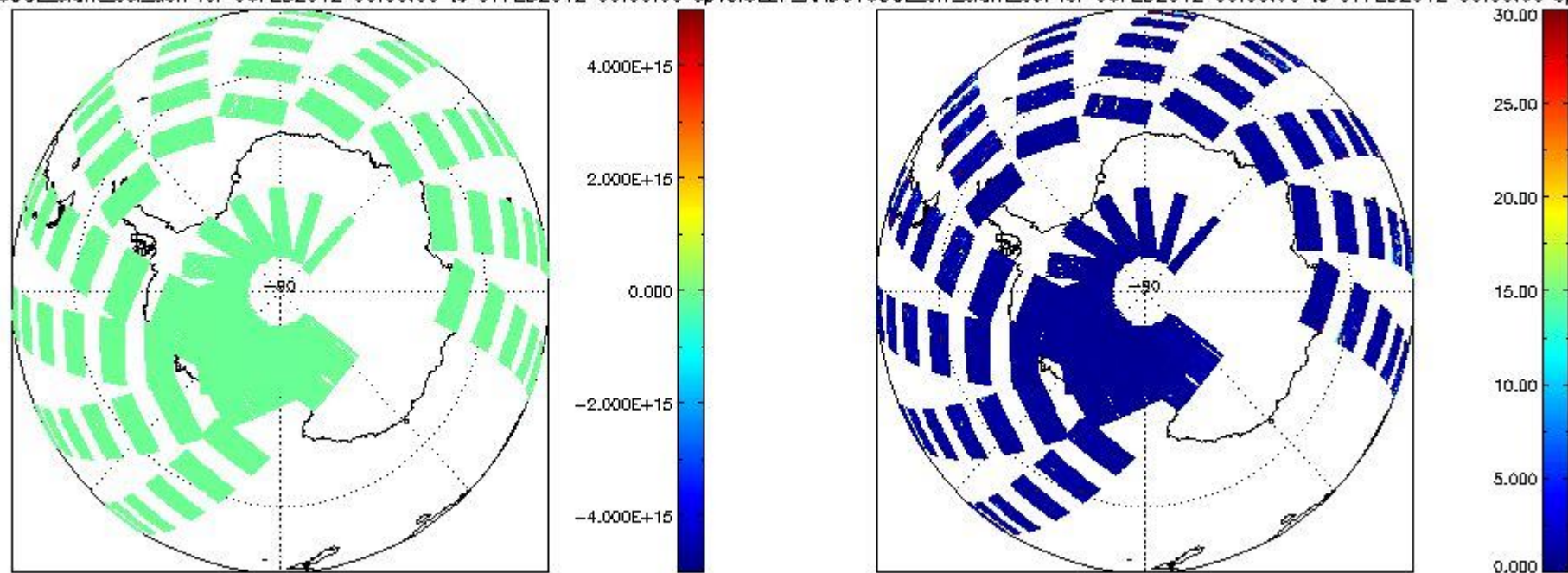
2.2.2.6 OCIO (UV6)



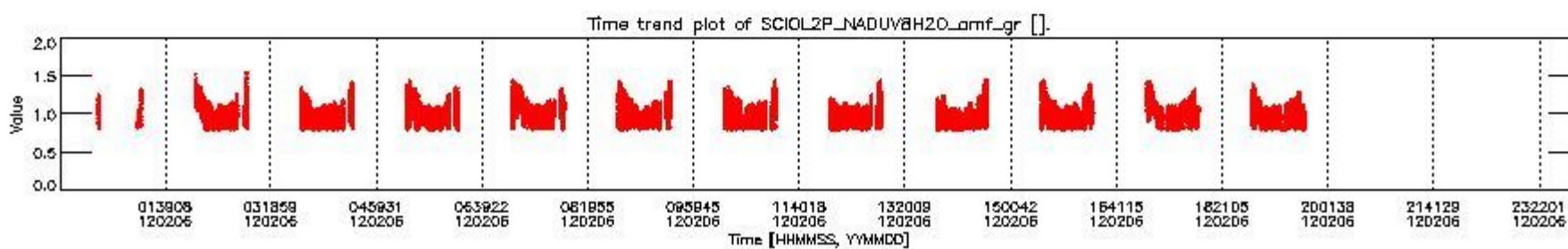
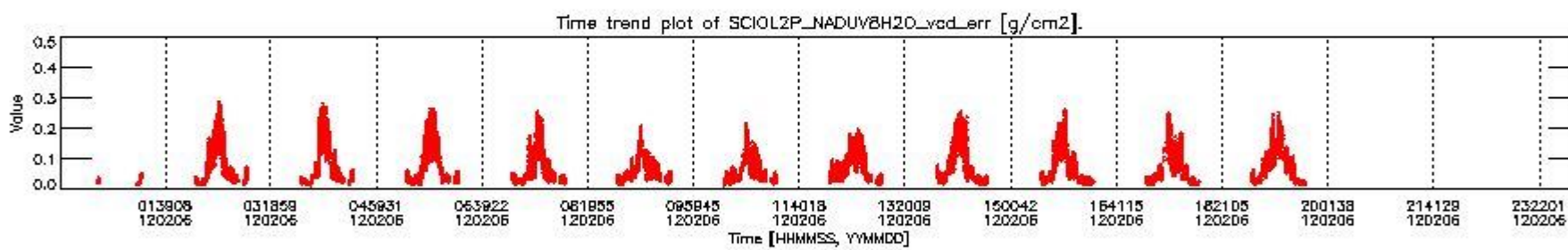
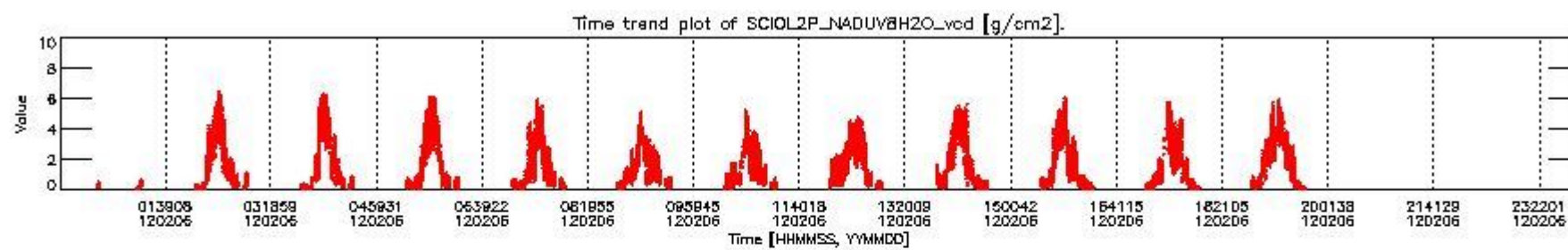
CIOL2P_NADUV60CL_slant_col_den for 06FEB2012 00:00:00 to 07FEB2012 00:00:00 np; CIOL2P_NADUV60CL_err_slant_col for 06FEB2012 00:00:00 to 07FEB2012 00:00:00 np



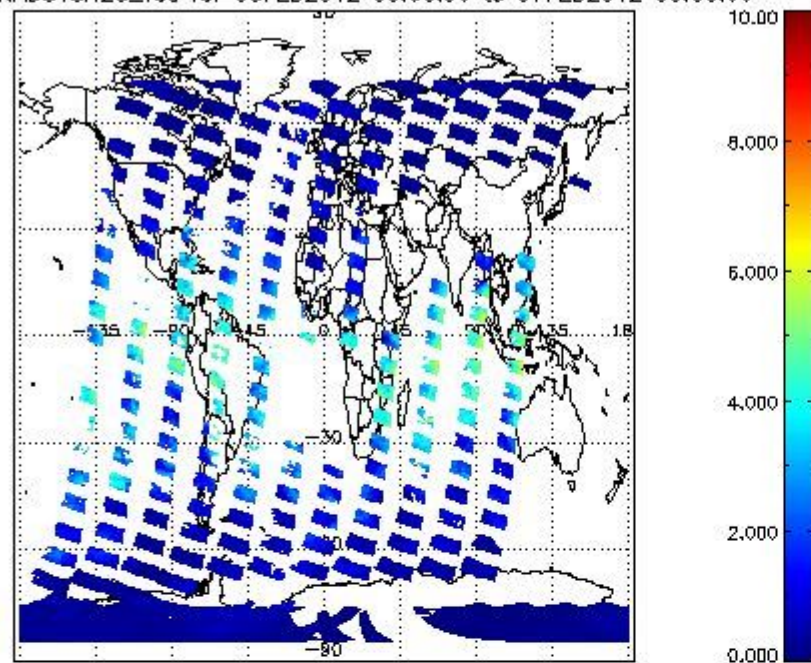
CIOL2P_NADUV6OCL_slant_col_den for 06FEB2012 00:00:00 to 07FEB2012 00:00:00 sp; CIOL2P_NADUV6OCL_err_slant_col for 06FEB2012 00:00:00 to 07FEB2012 00:00:00 sp



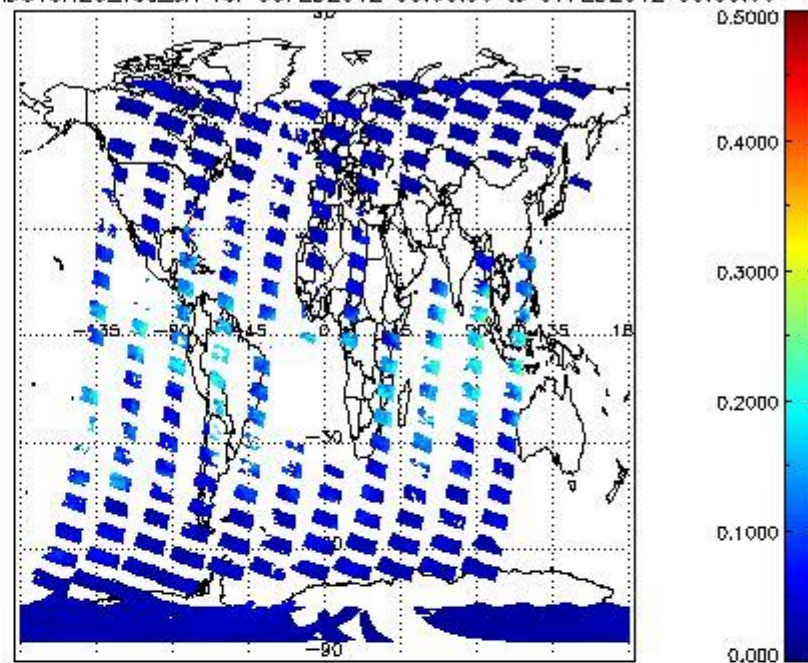
2.2.2.7 H2O (UV8)



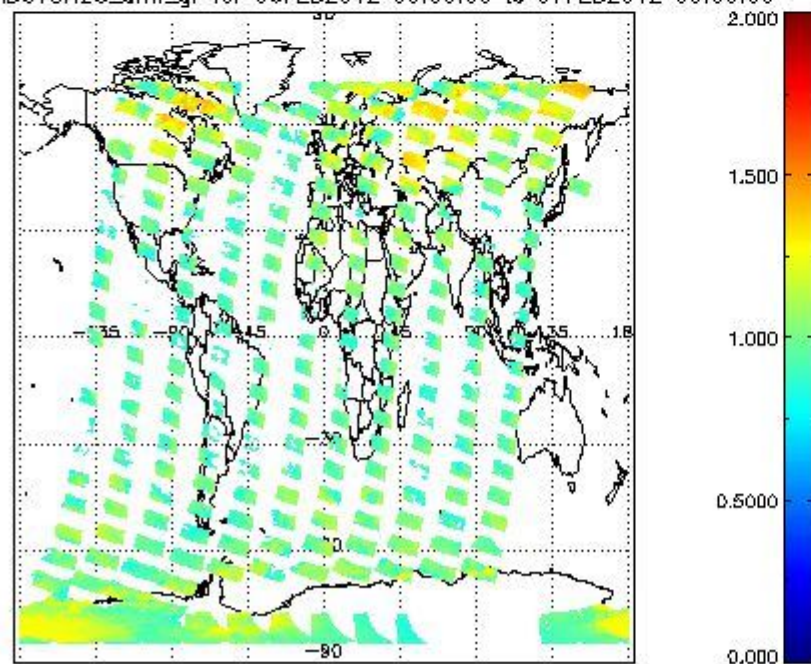
SCIOL2P_NADUV8H2O_vcd for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

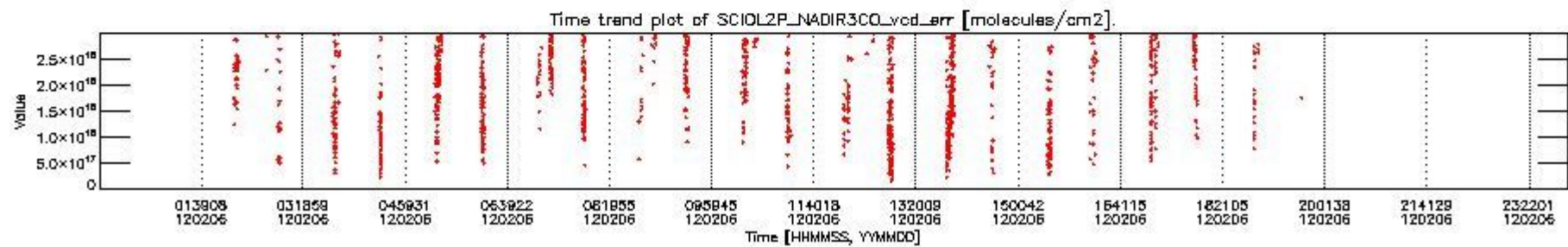
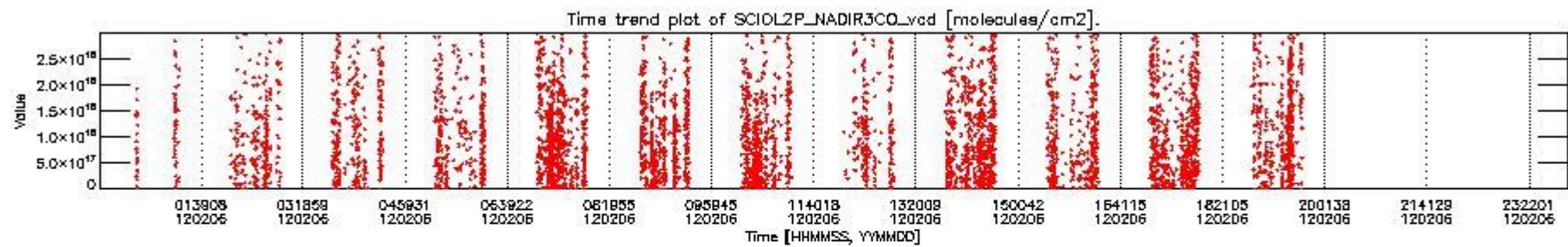


SCIOL2P_NADUV8H2O_vcd_err for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

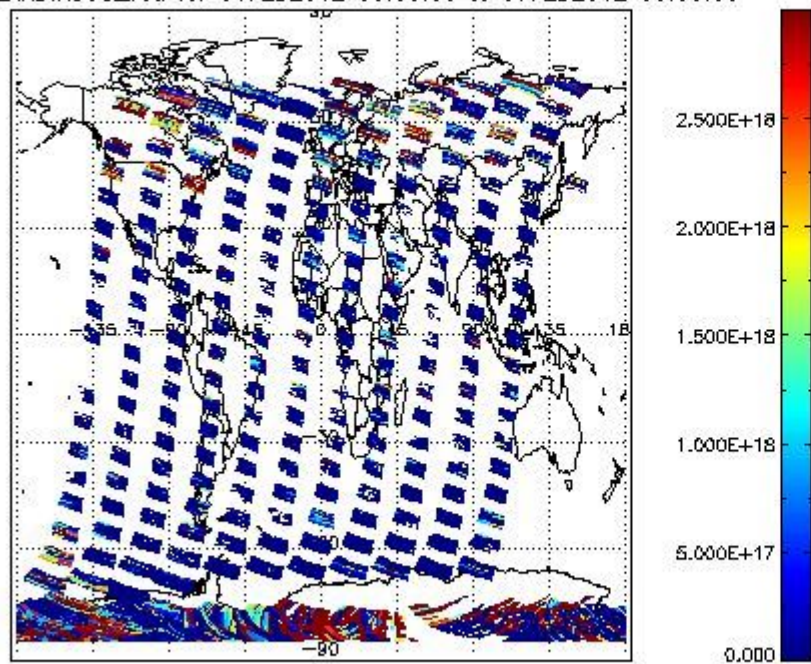


SCIOL2P_NADUV8H2O_amf_gr for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

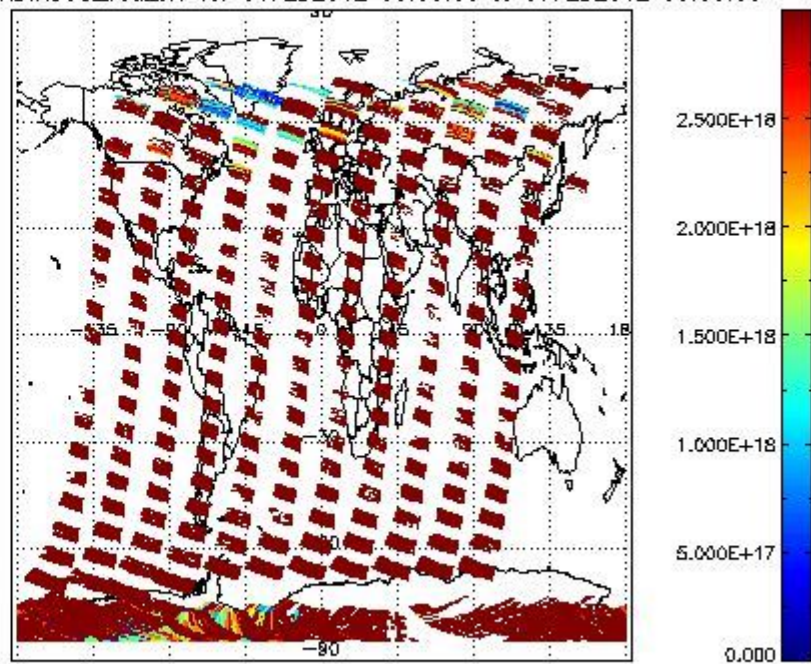




SCIDL2P_NADIR3CO_vcd for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



SCIDL2P_NADIR3CO_vcd_err for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



2.2.3 Limb

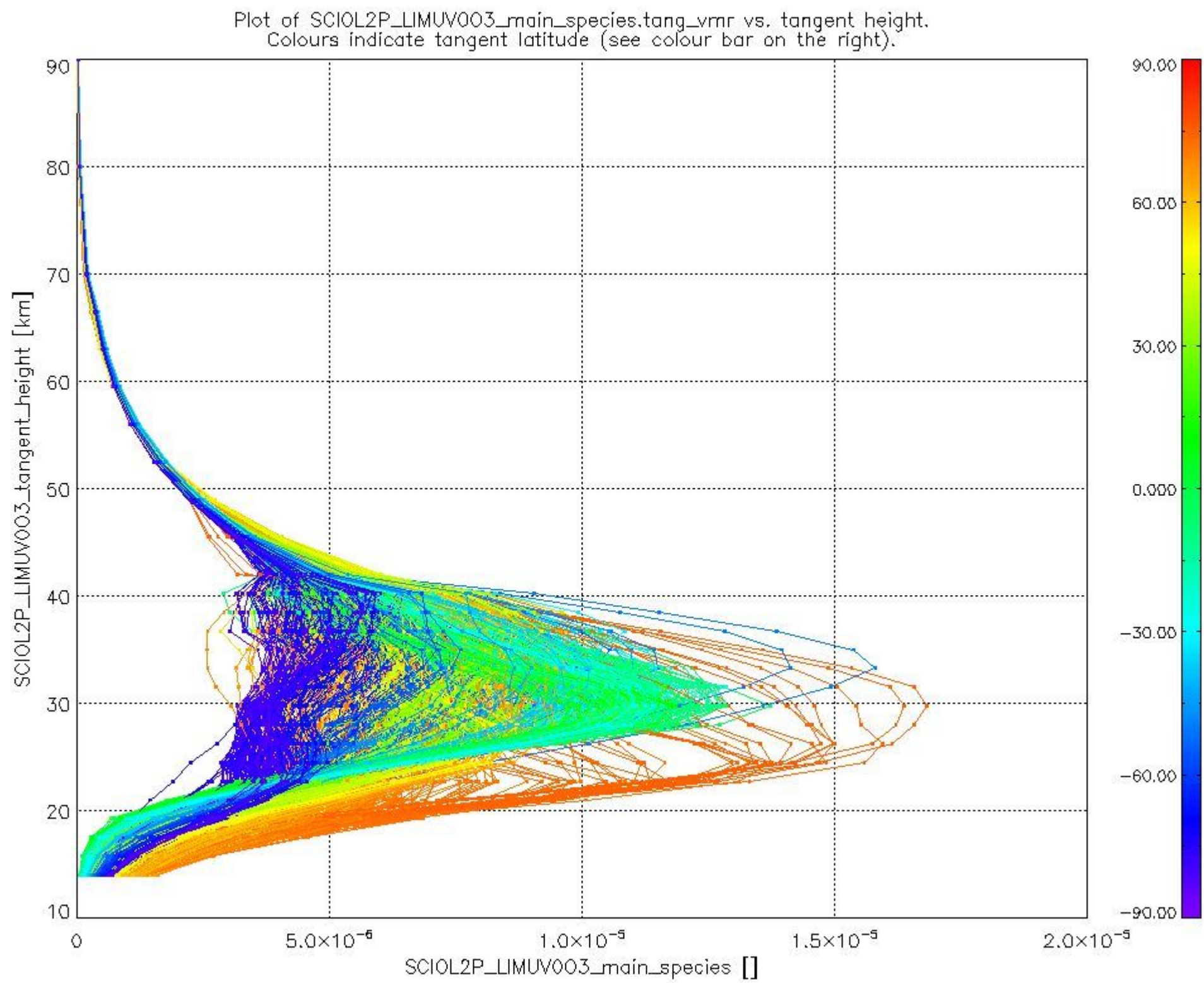
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

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

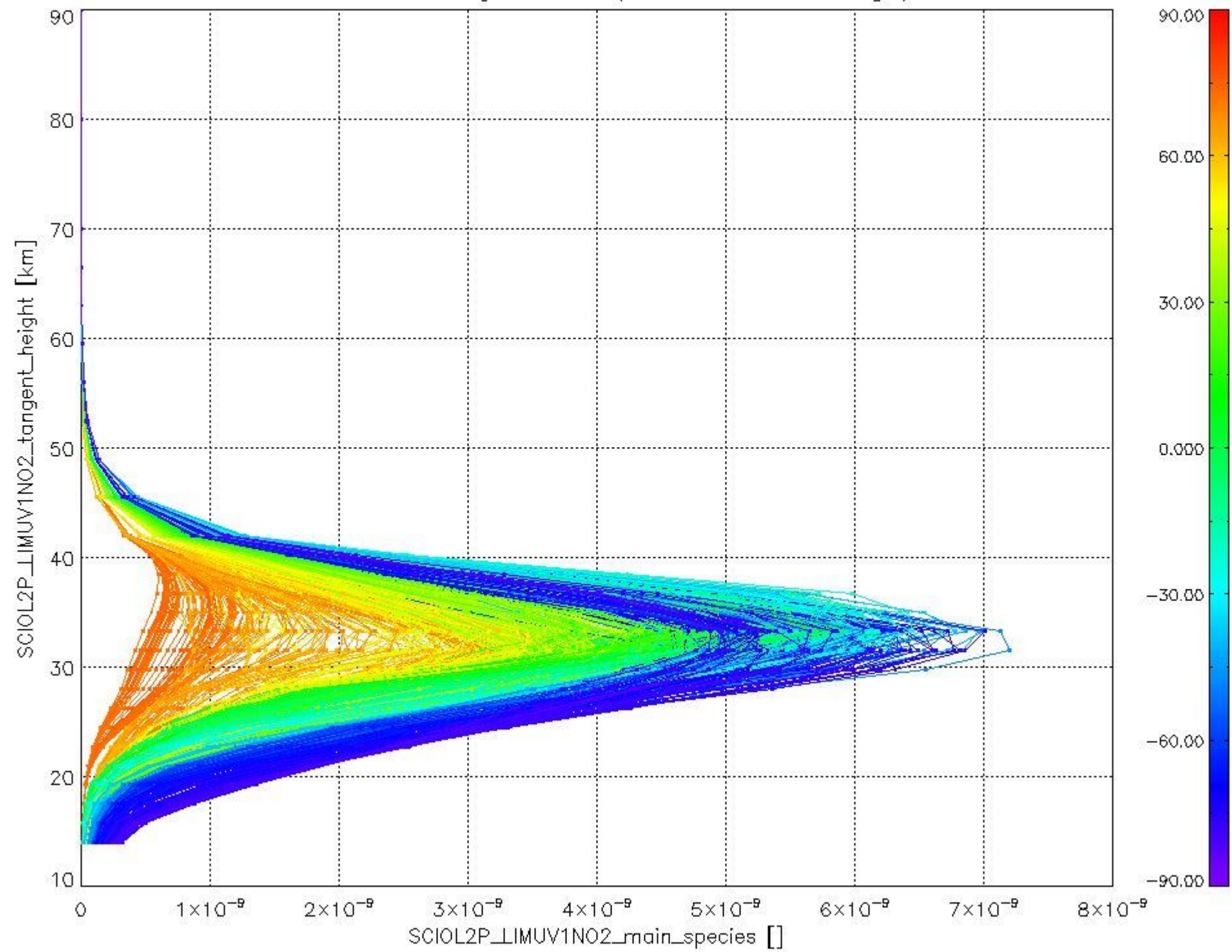
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



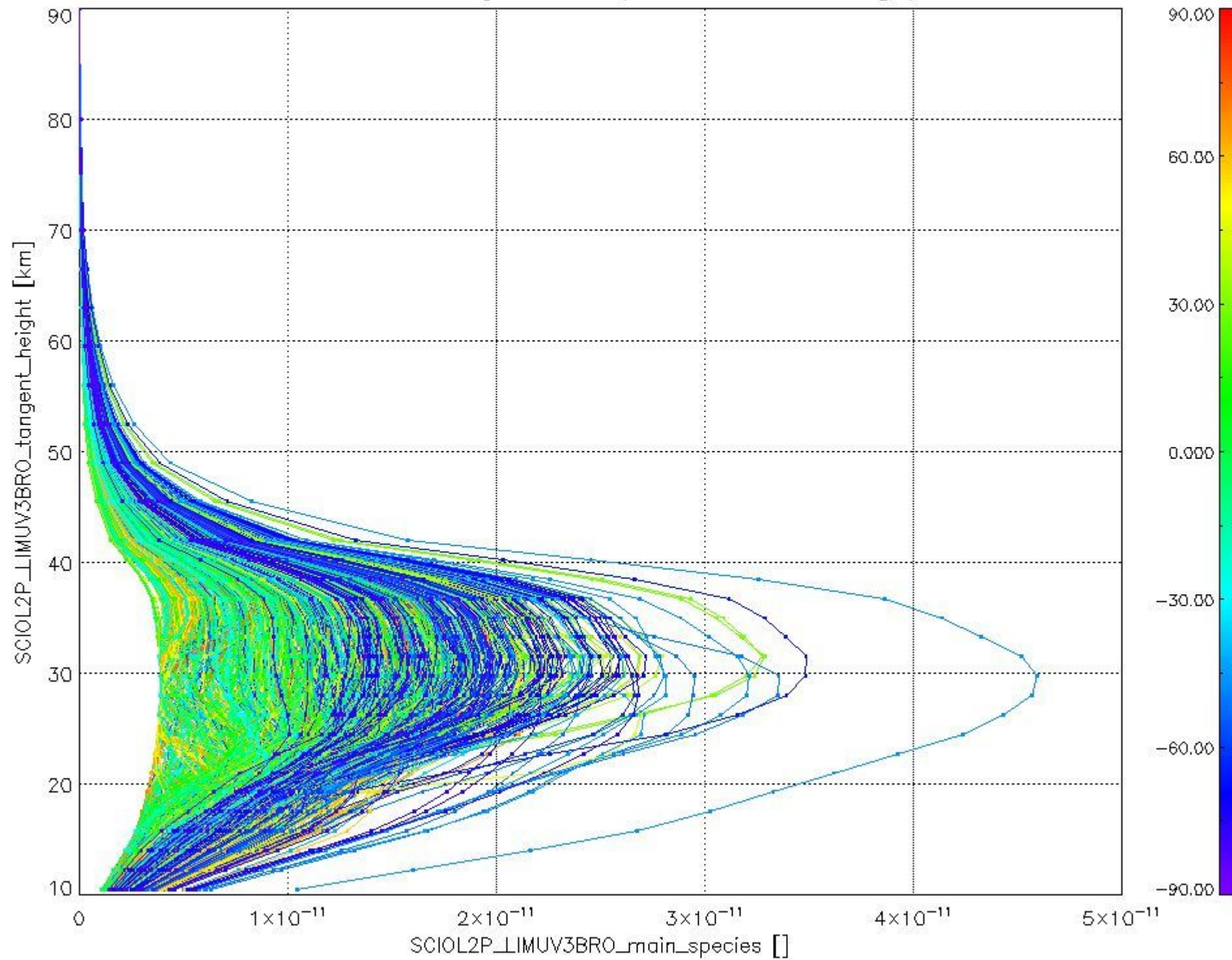
2.2.3.2 NO2 (UV1)

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)

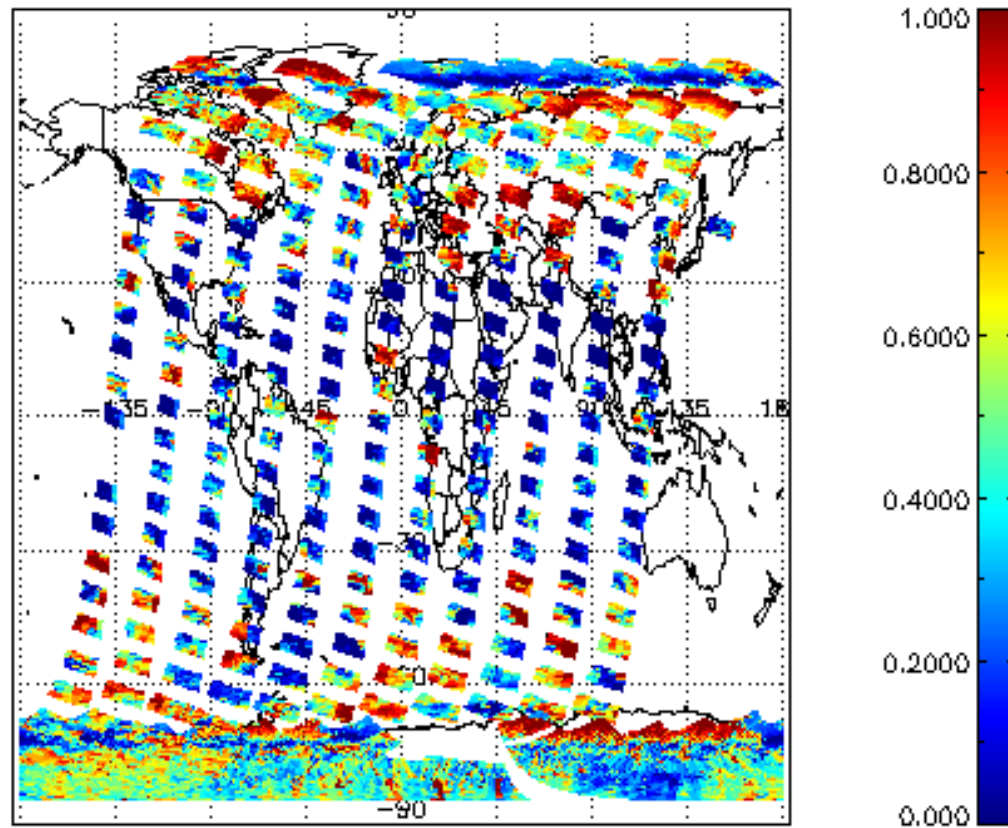
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



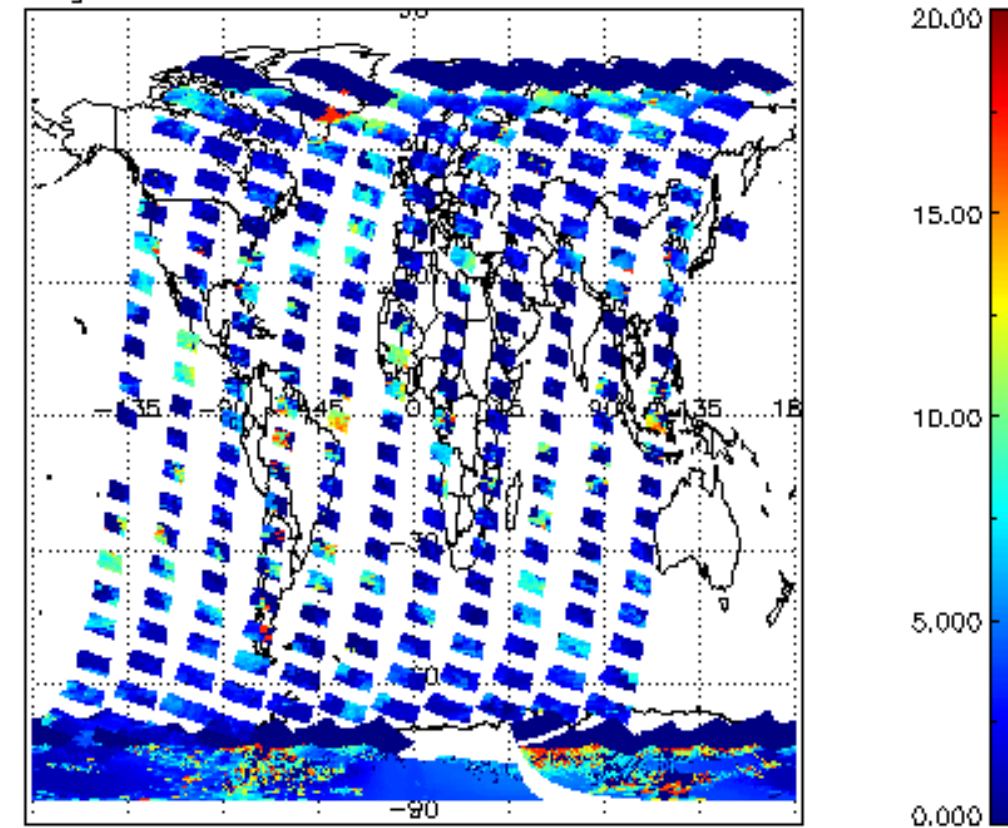
2.3 ADF monitoring

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_AXVIEC20120207_165008_20120205_183948_20120207_183948
3	SCI_MF1_AXVIEC20120207_165114_20120206_180302_20120208_180302

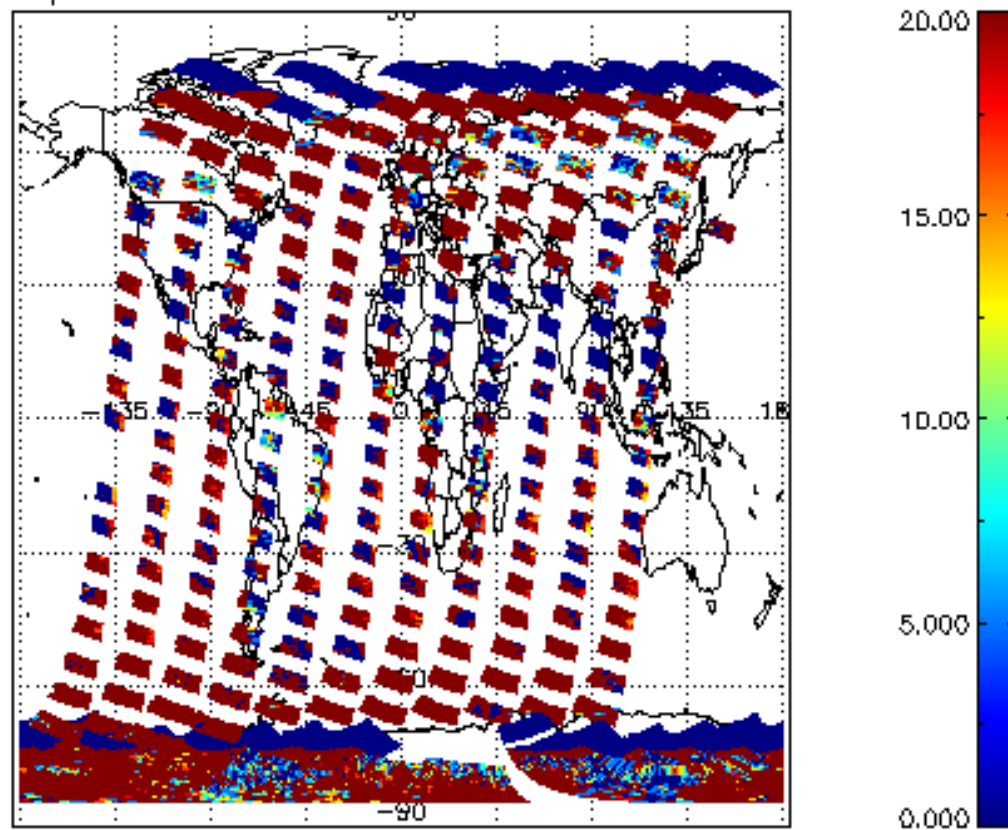
cl_frac for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



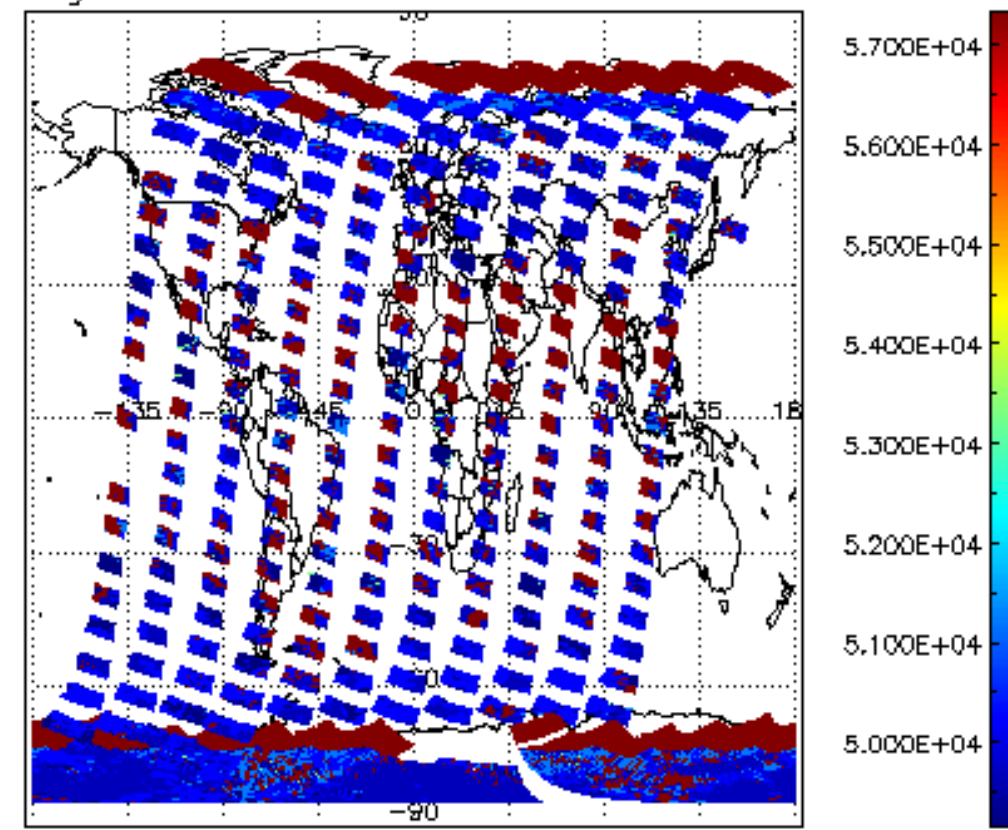
cl_top_height for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

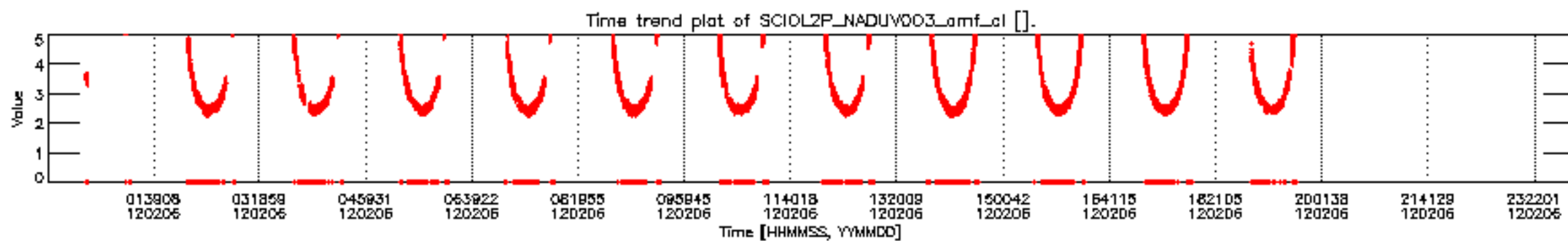
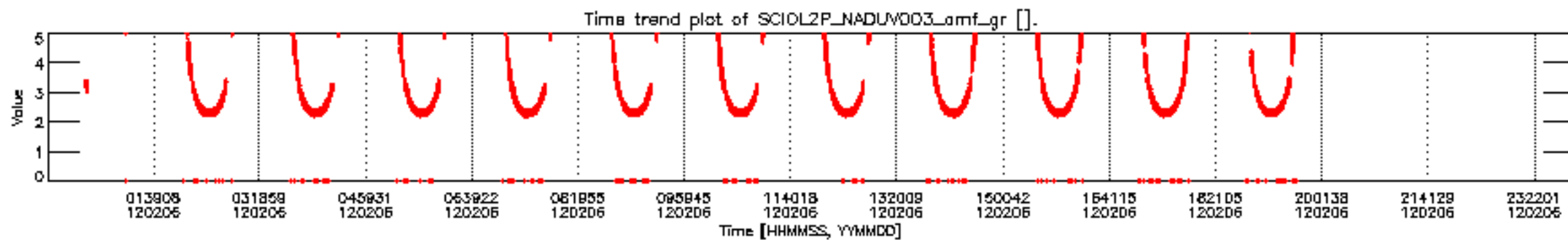
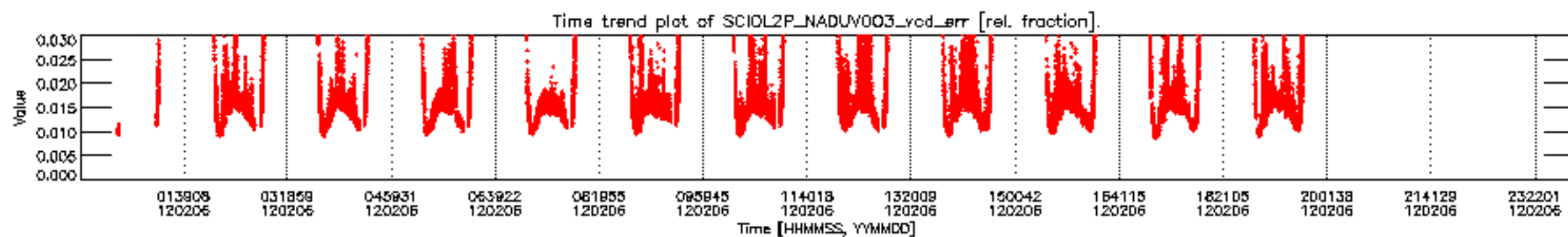
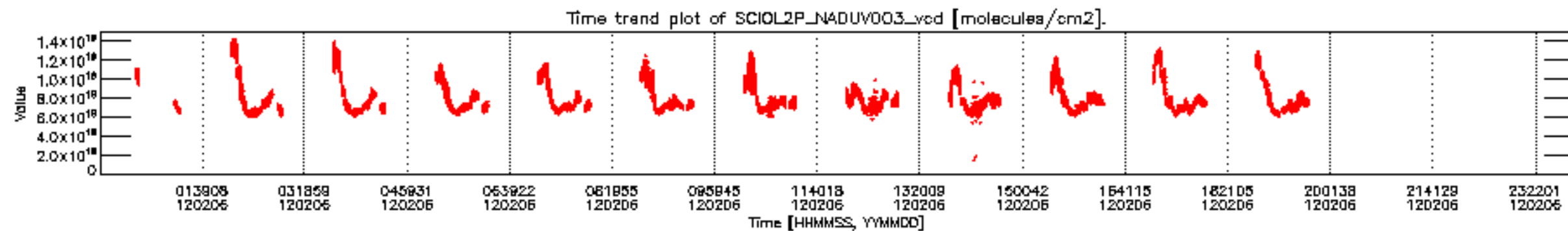


cl_opt_depth for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

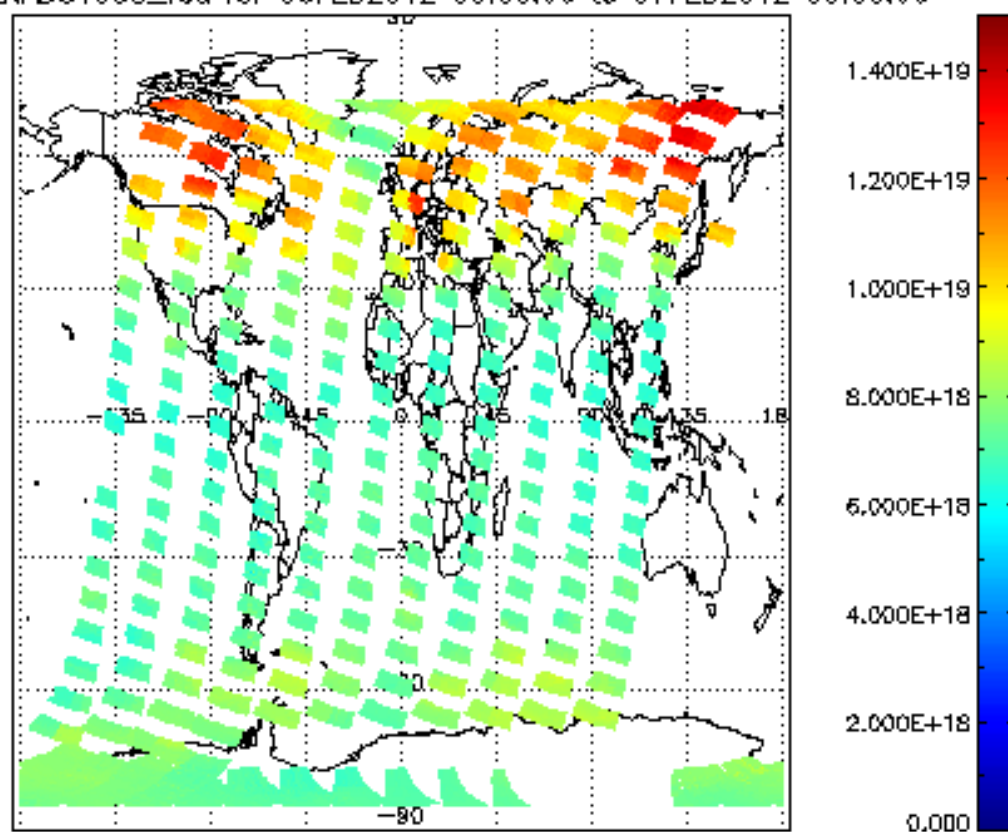


cloud_flags for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

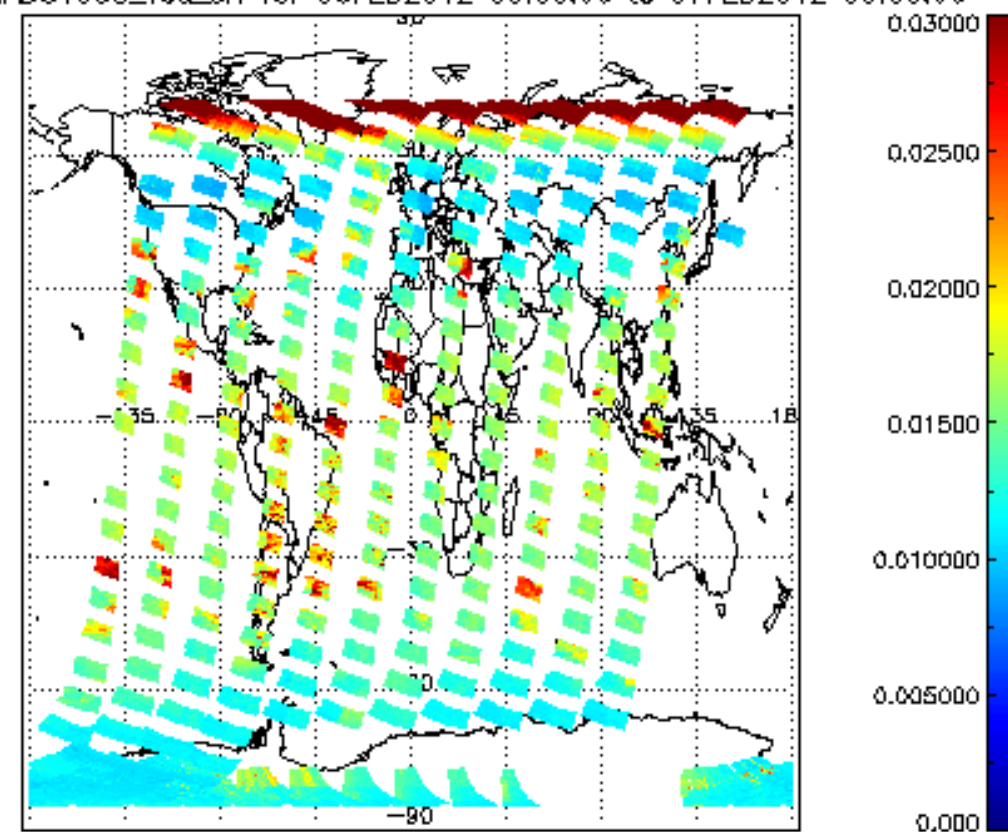




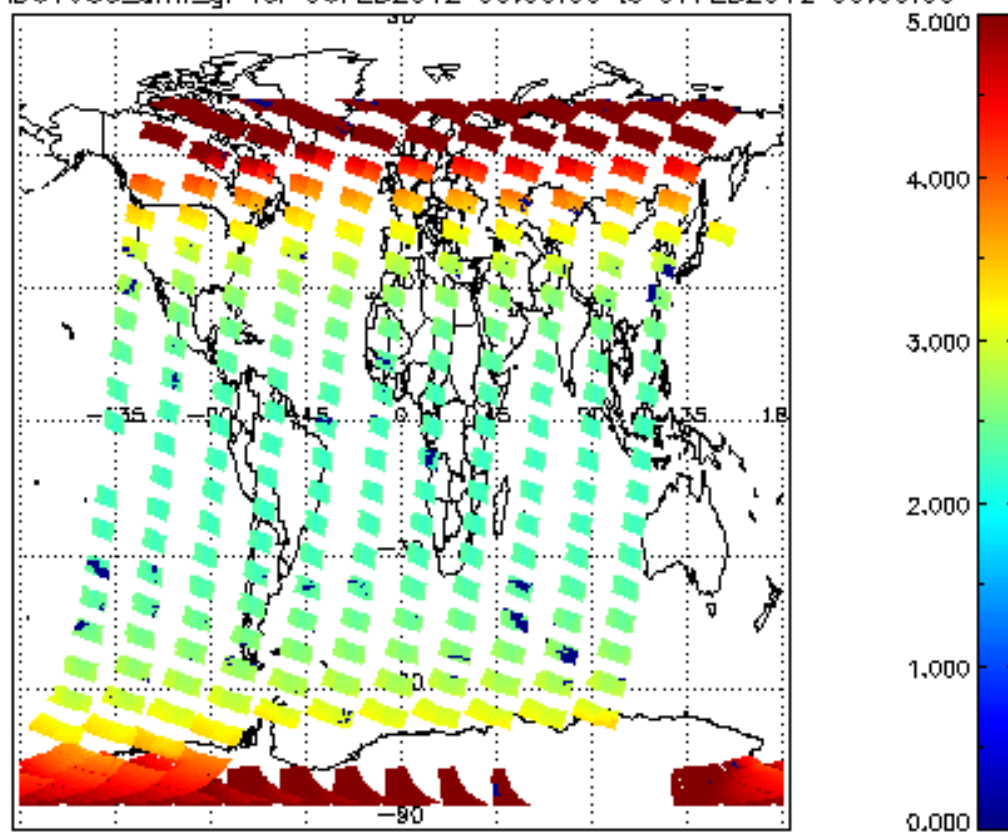
SCIOL2P_NADUV003_vcd for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



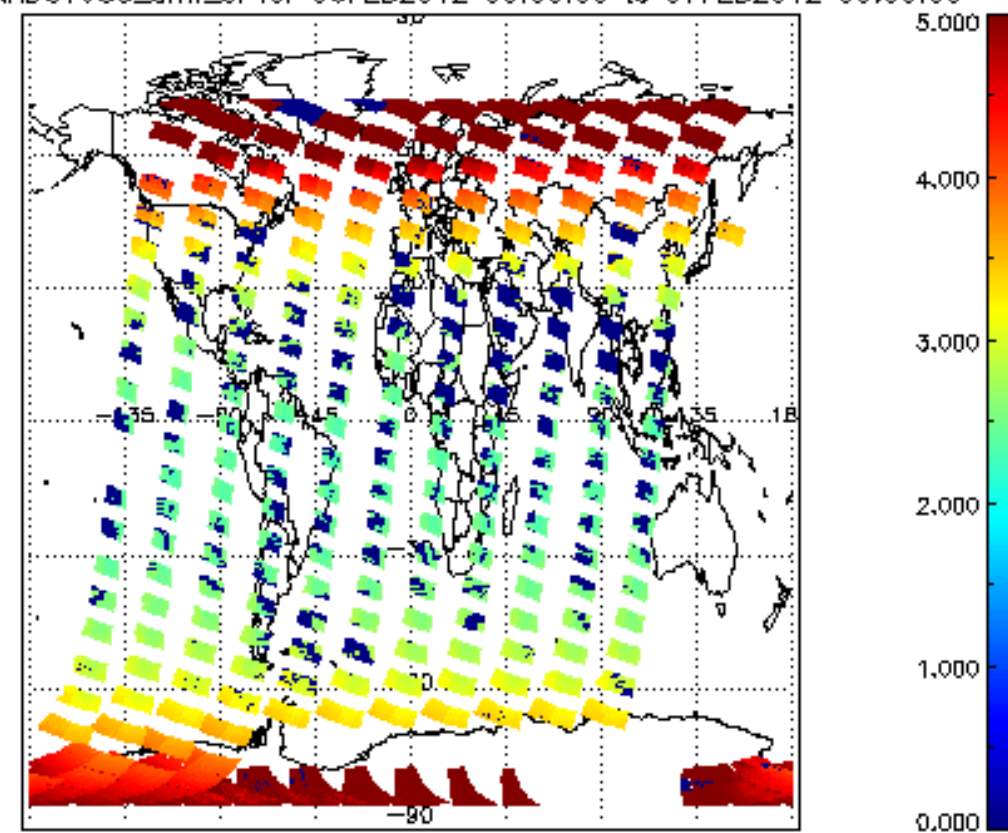
SCIOL2P_NADUV003_vcd_err for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

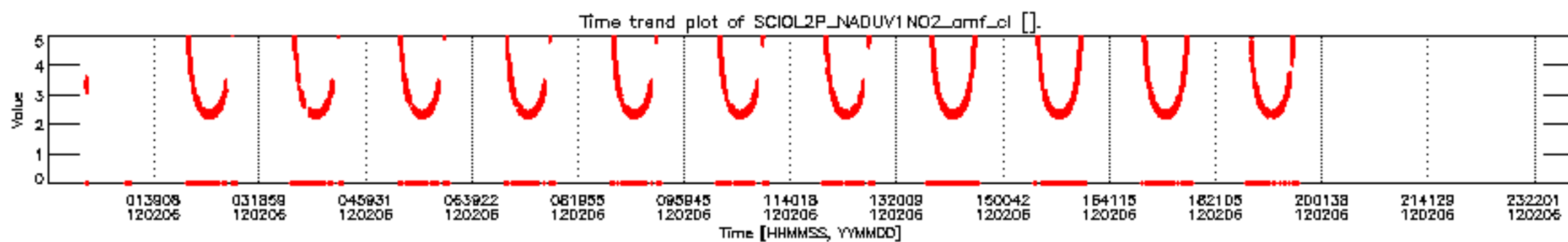
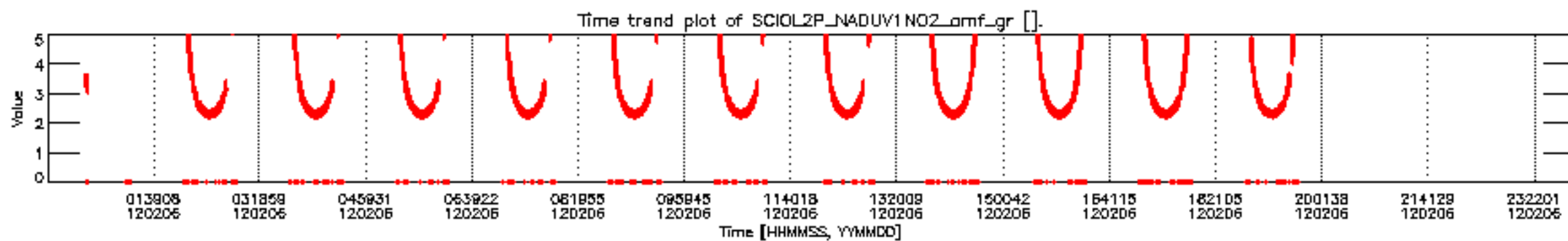
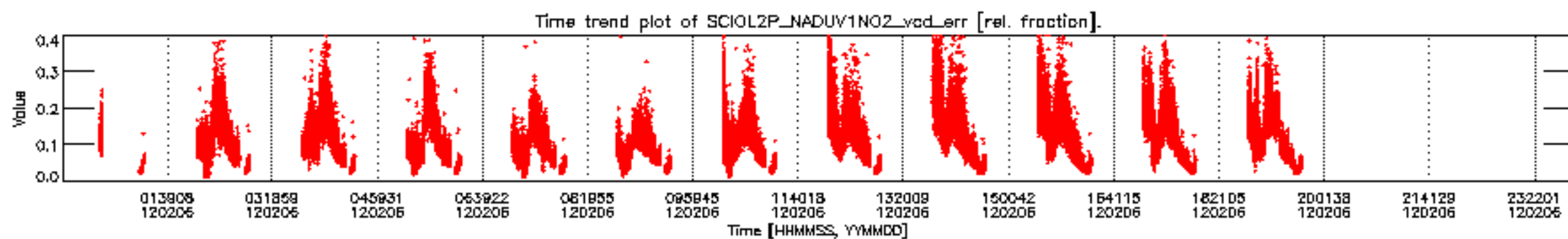
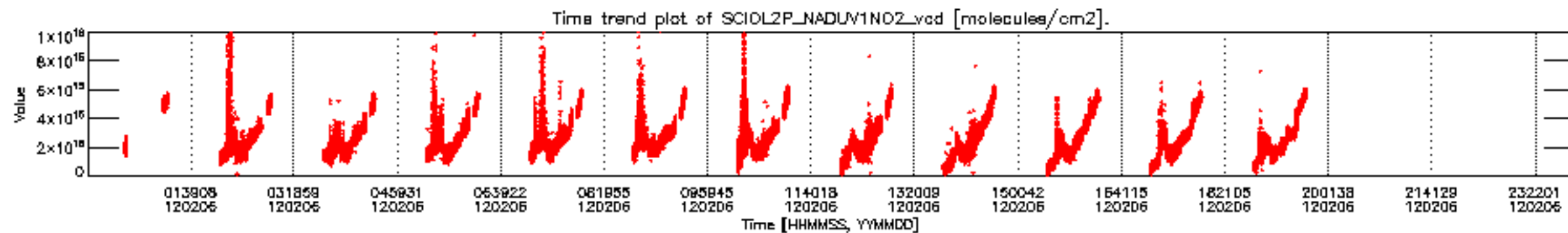


SCIOL2P_NADUV003_amf_gr for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

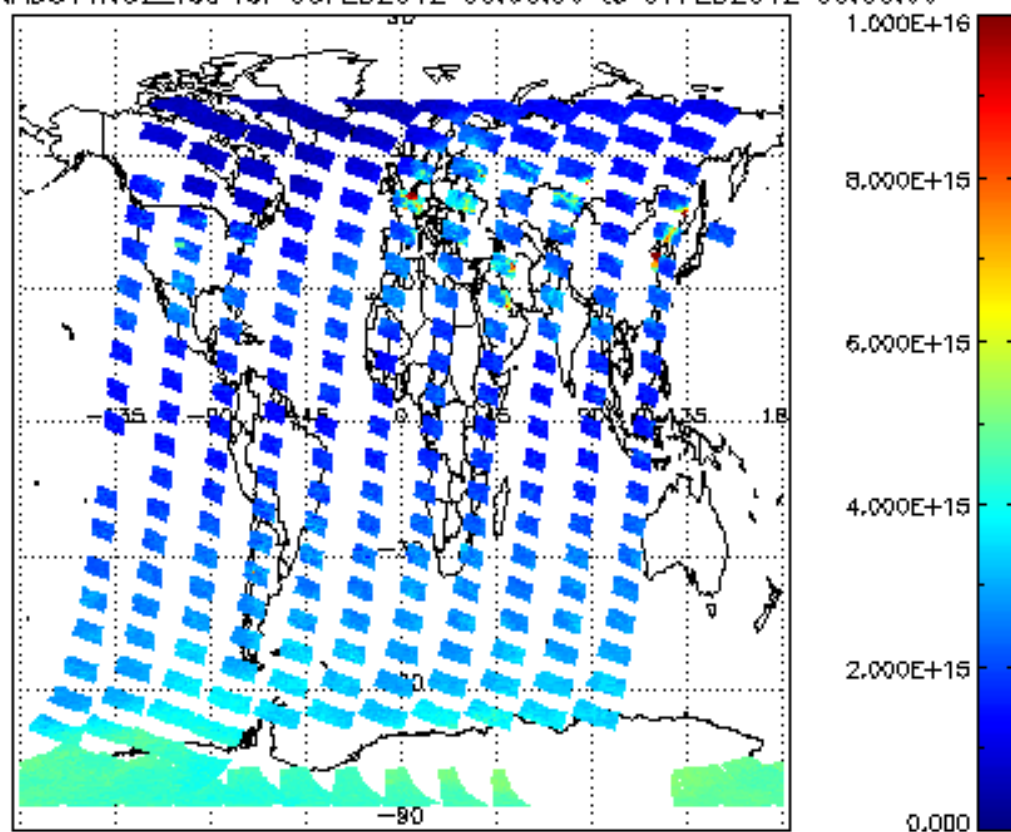


SCIOL2P_NADUV003_amf_cl for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

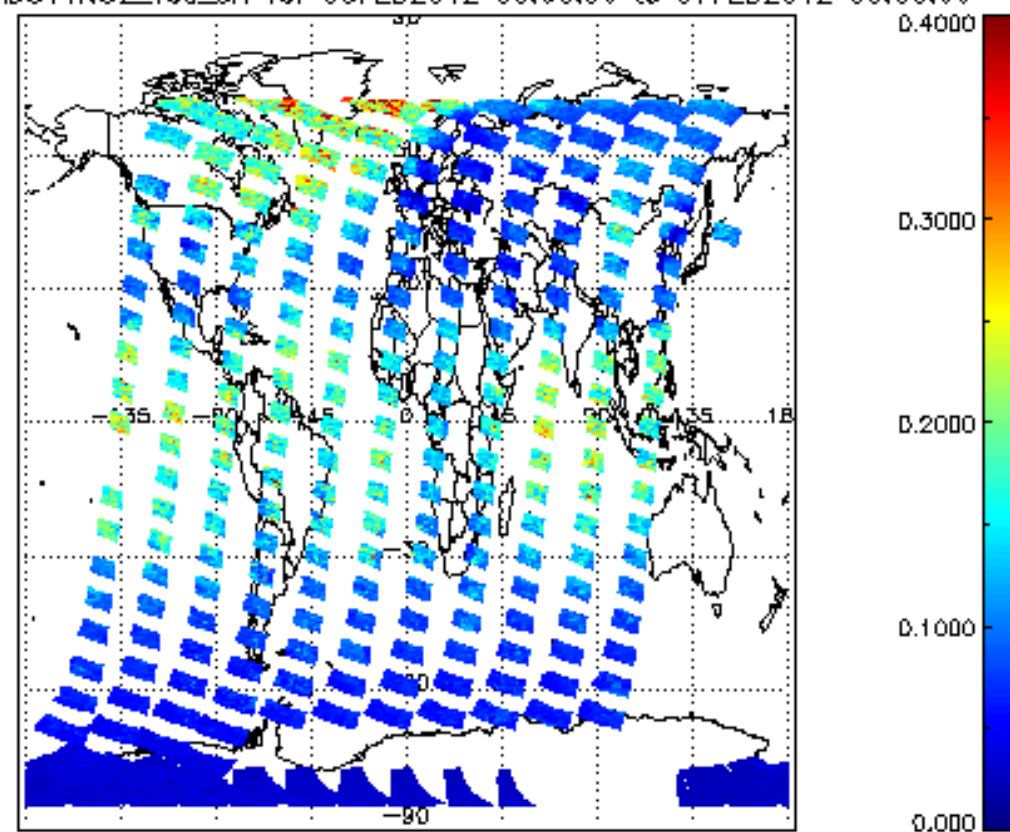




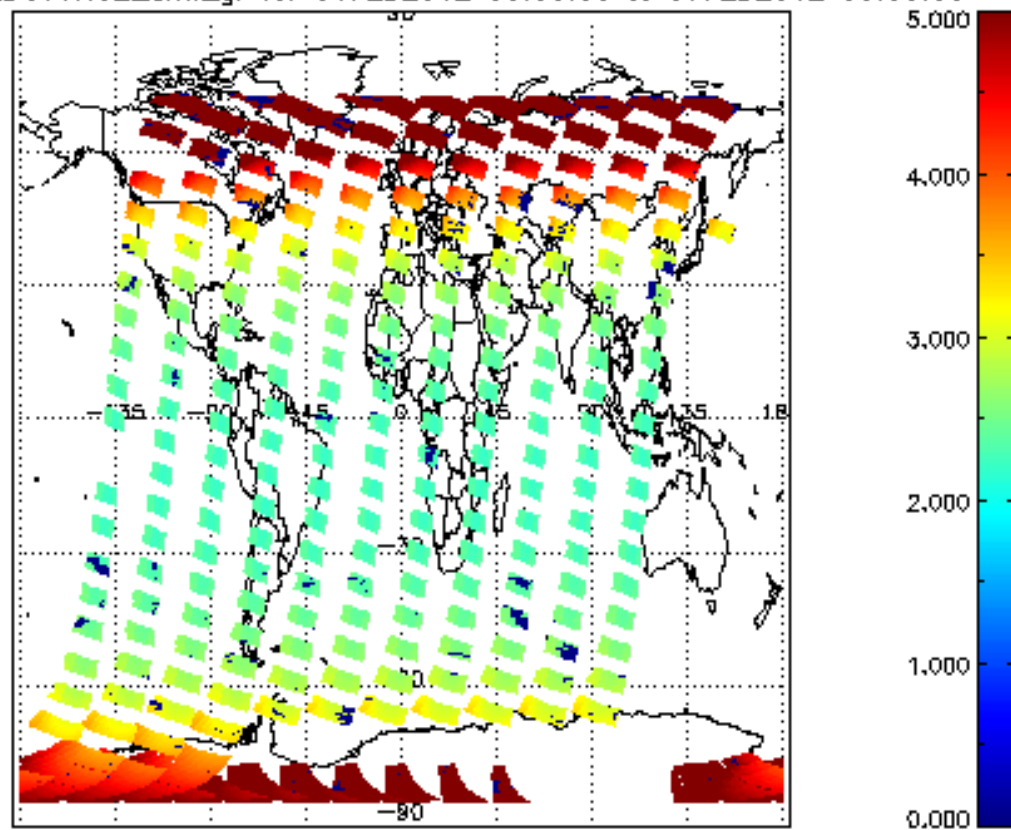
SCIOL2P_NADUV1N02_vcd for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



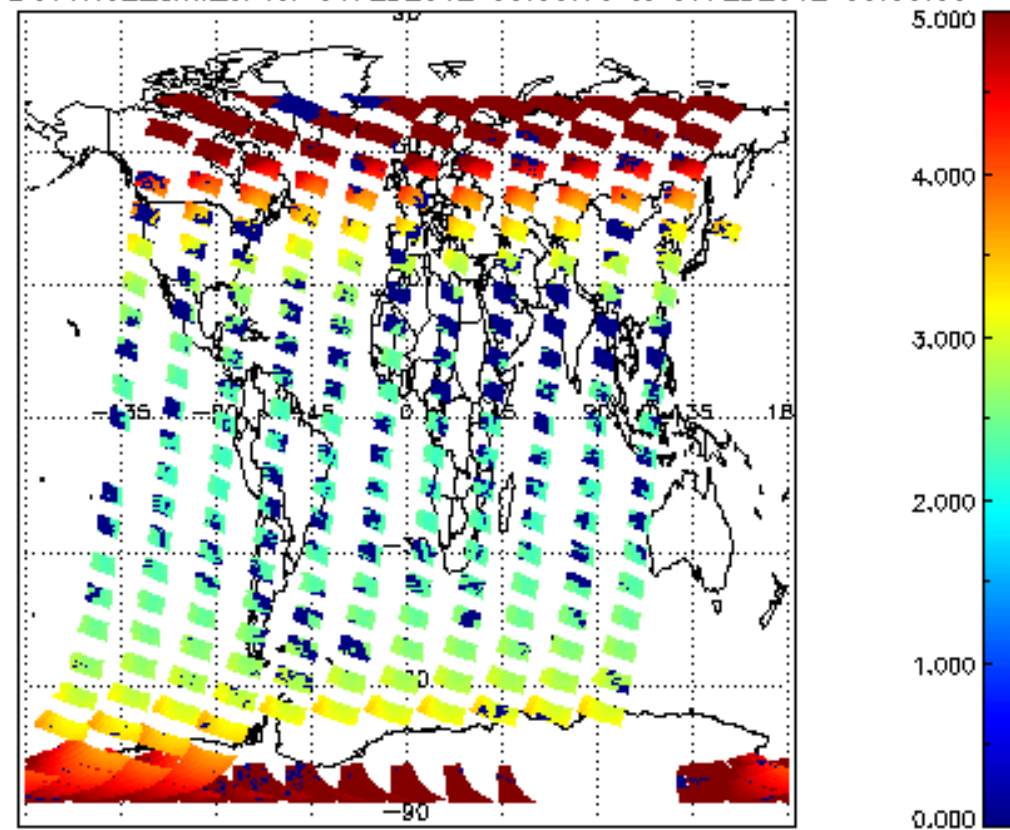
SCIOL2P_NADUV1N02_vcd_err for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

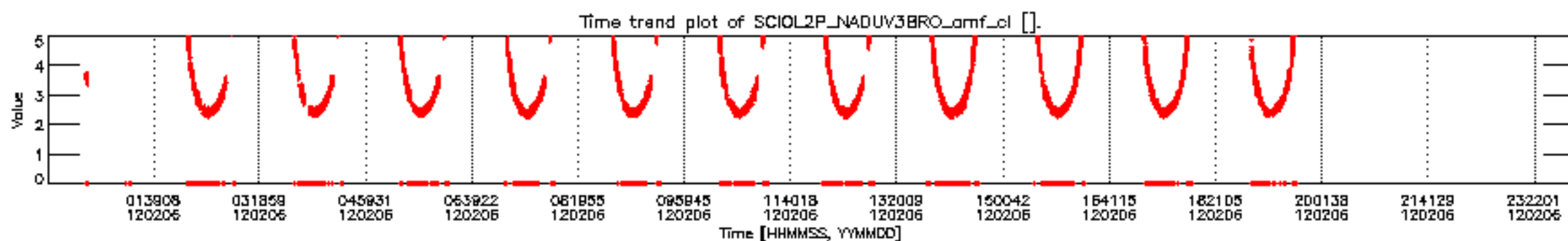
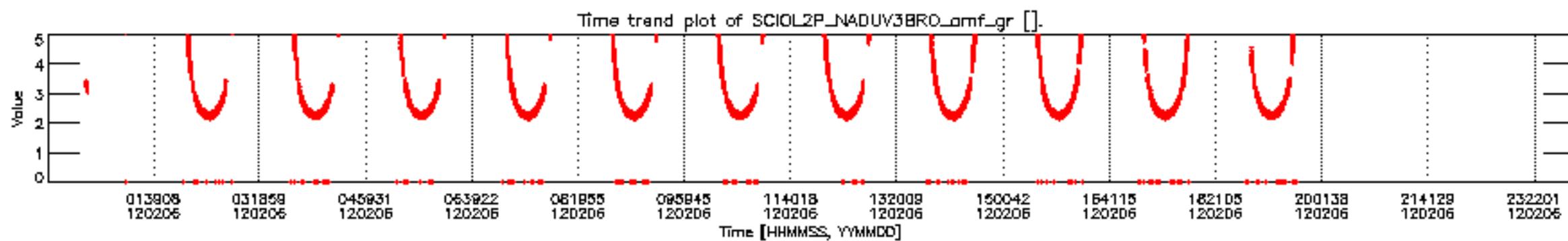
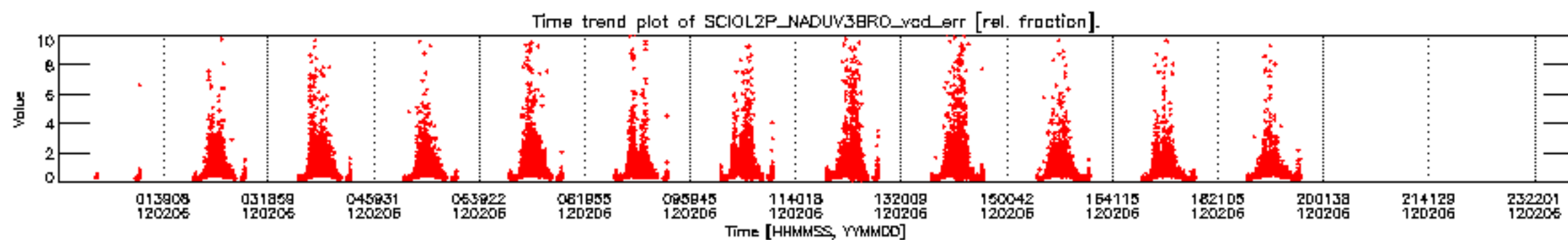
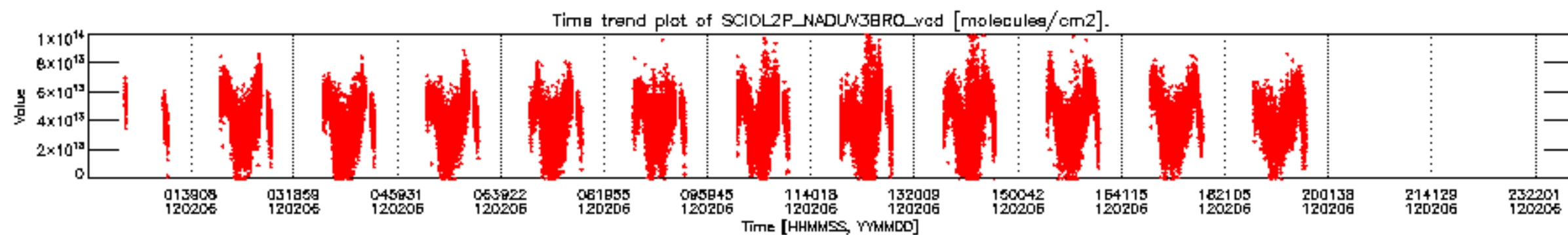


SCIOL2P_NADUV1N02_amf_gr for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

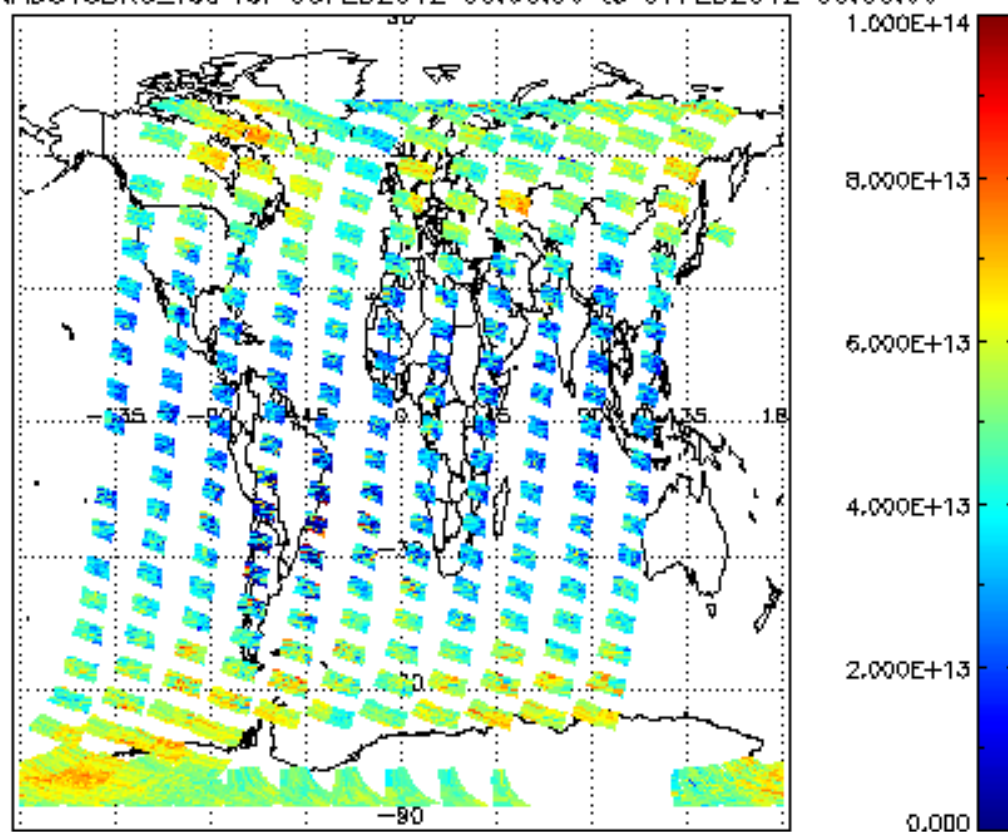


SCIOL2P_NADUV1N02_amf_cl for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

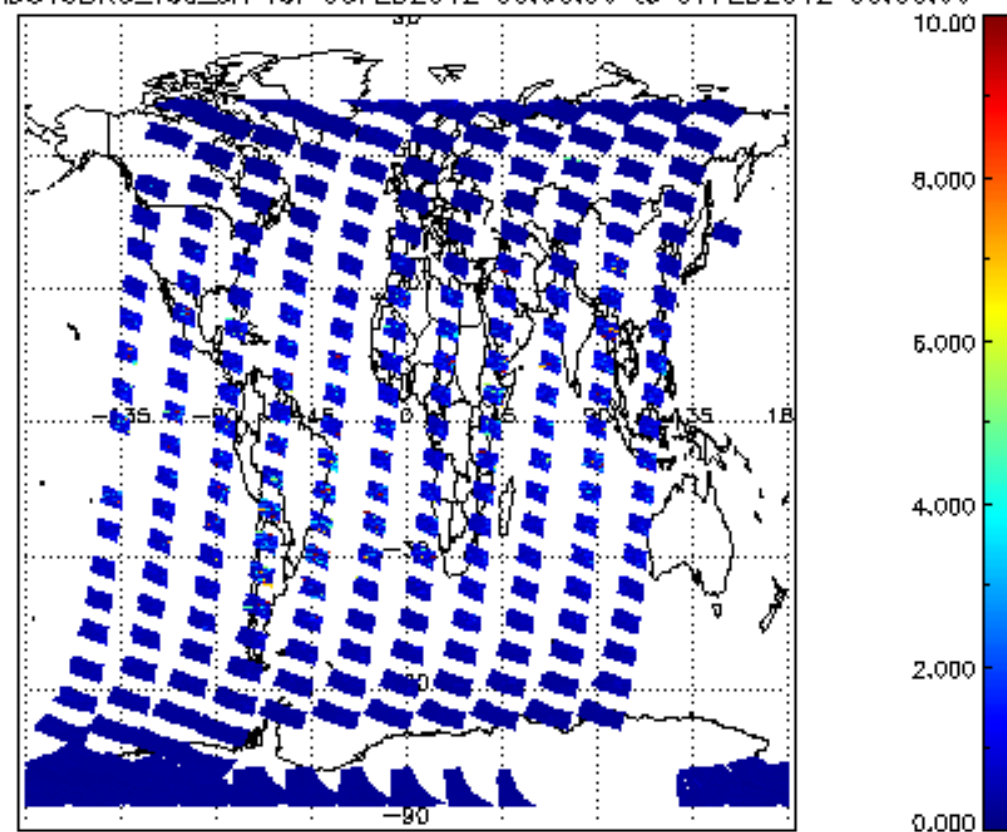




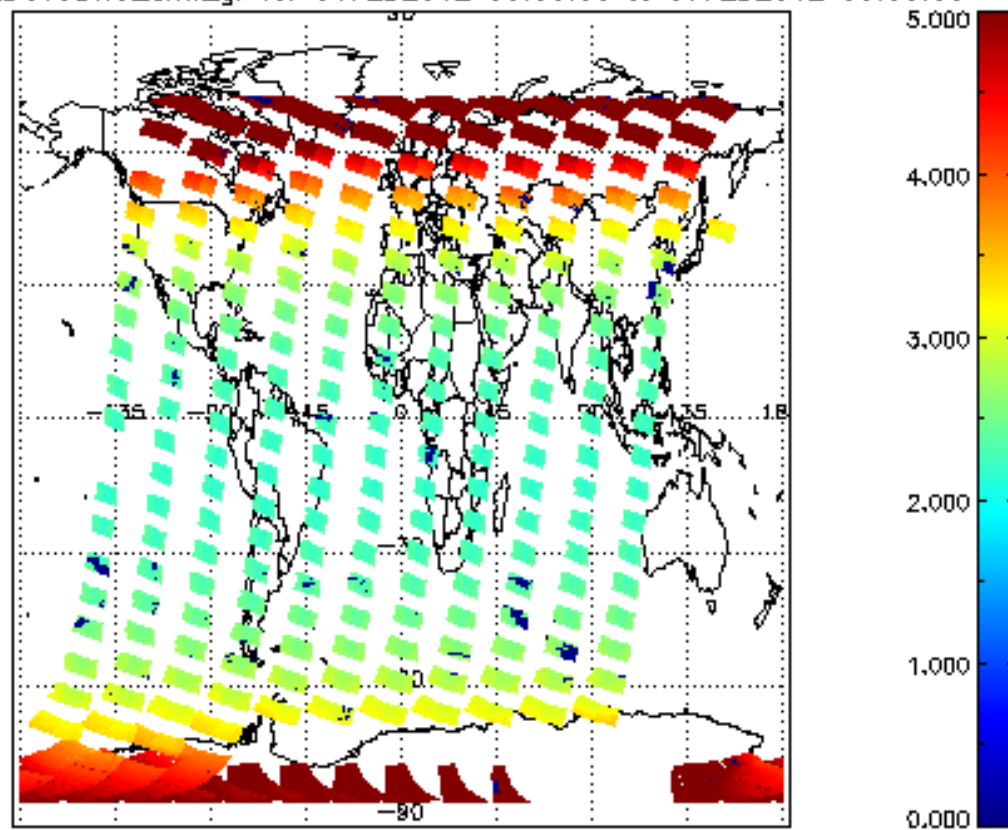
SCIOL2P_NADUV3BRO_vcd for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



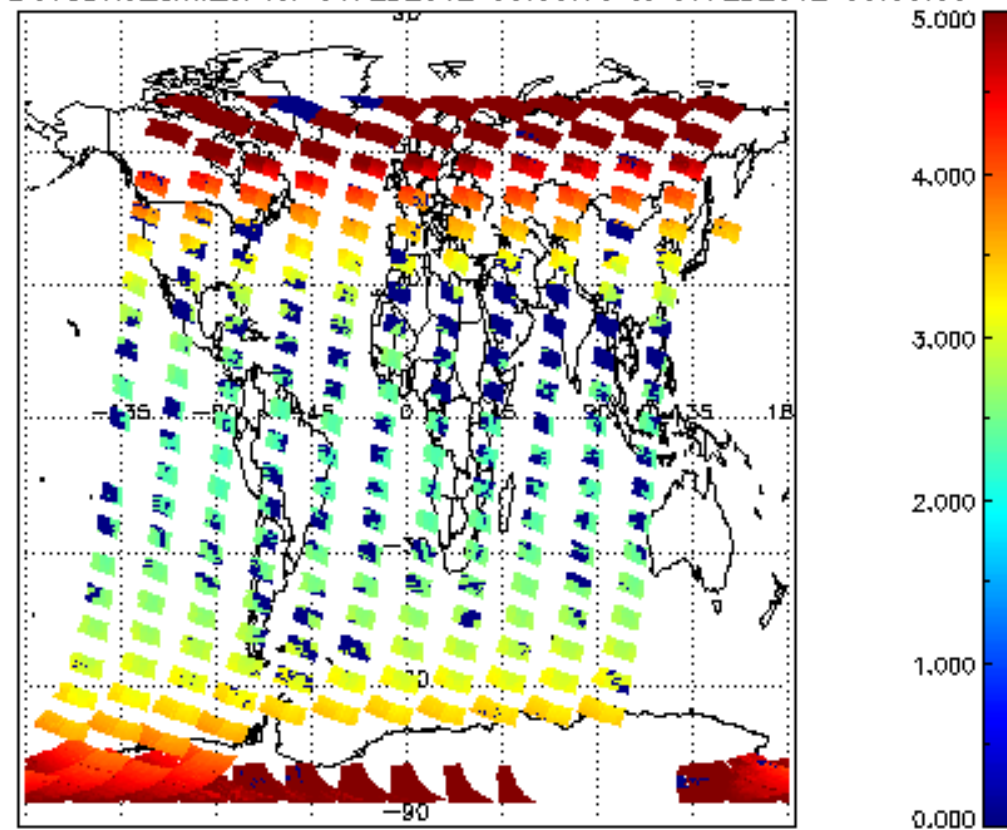
SCIOL2P_NADUV3BRO_vcd_err for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

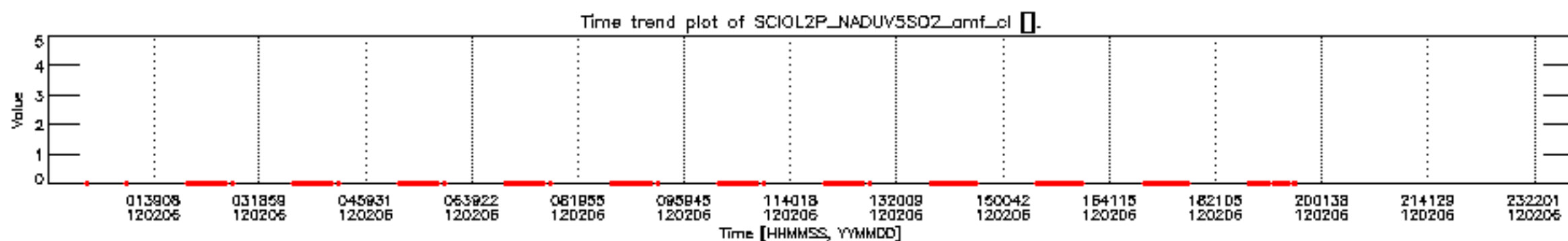
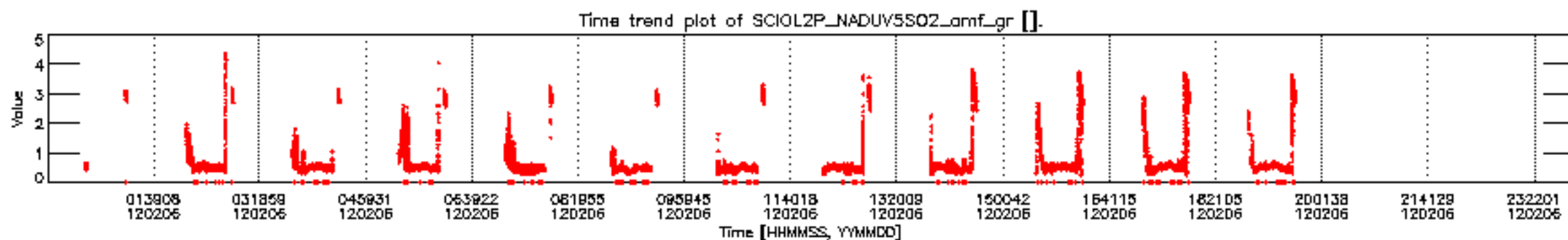
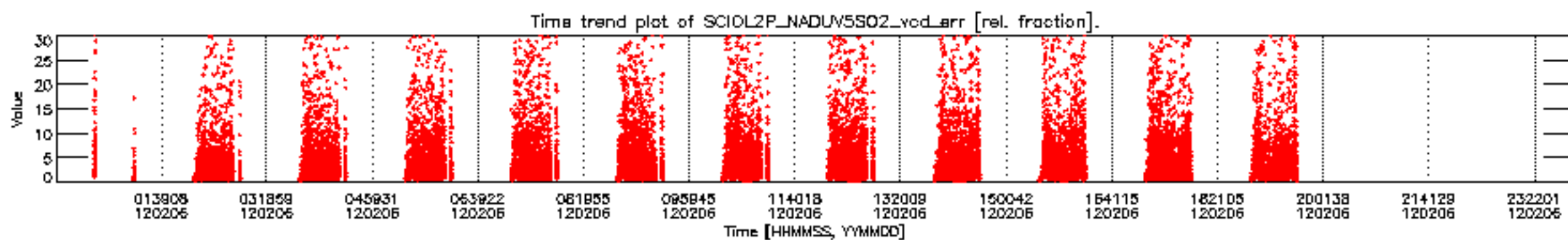
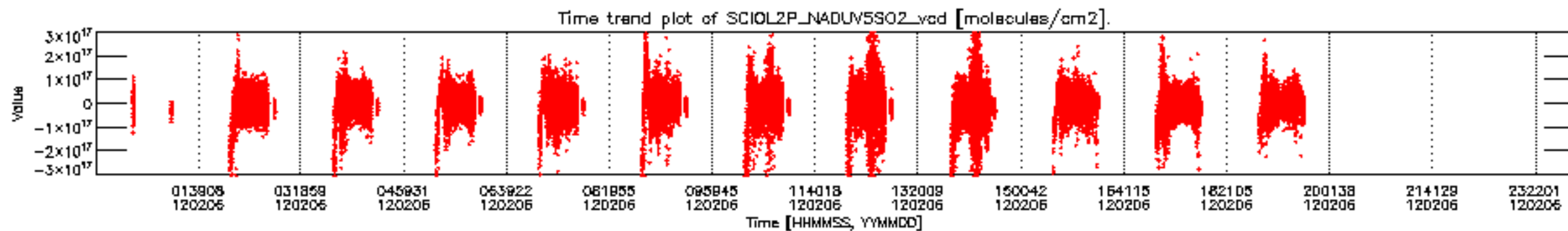


SCIOL2P_NADUV3BRO_amf_gr for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

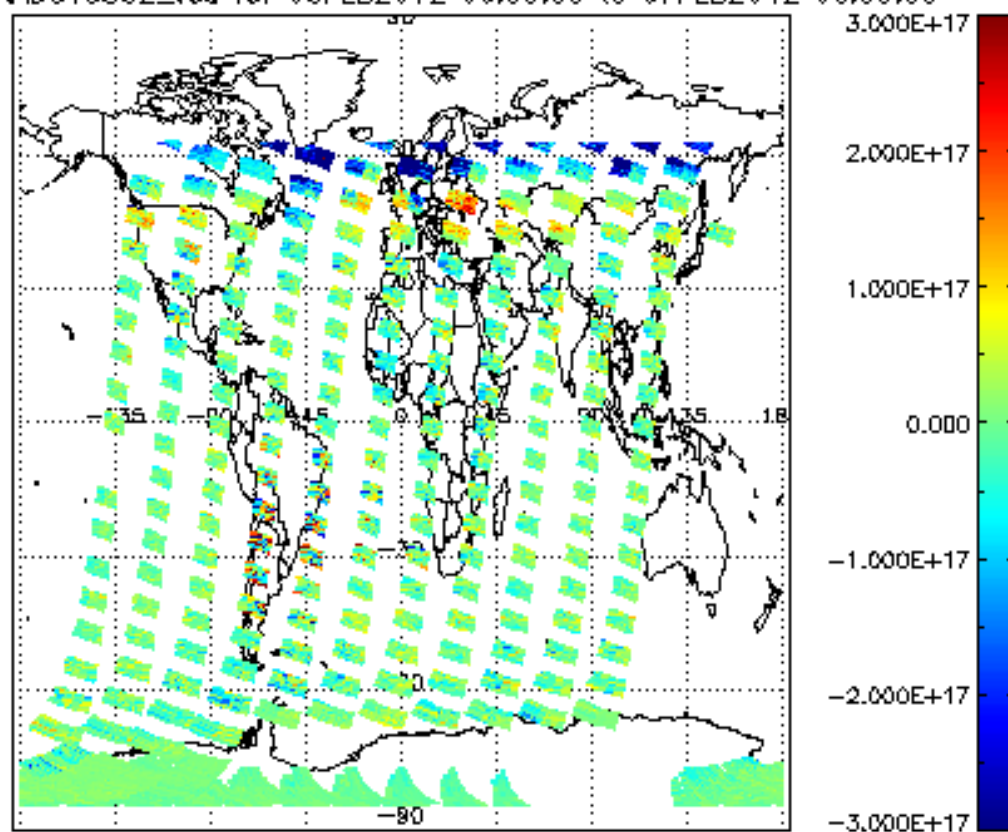


SCIOL2P_NADUV3BRO_amf_cl for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

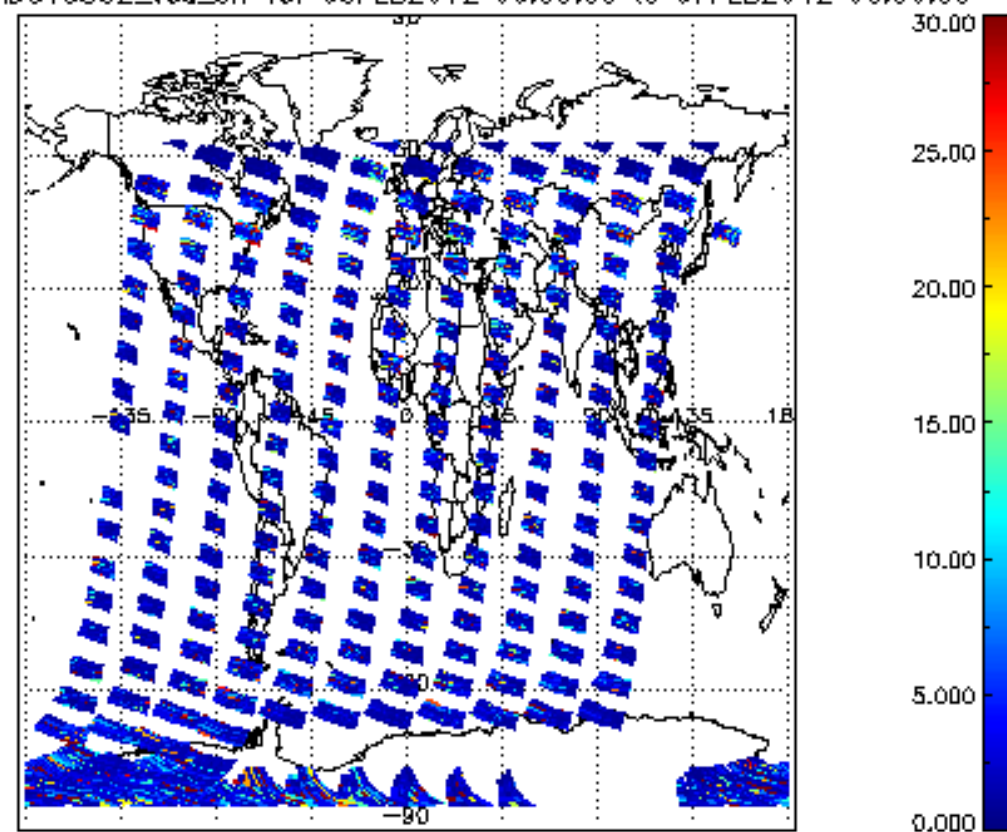




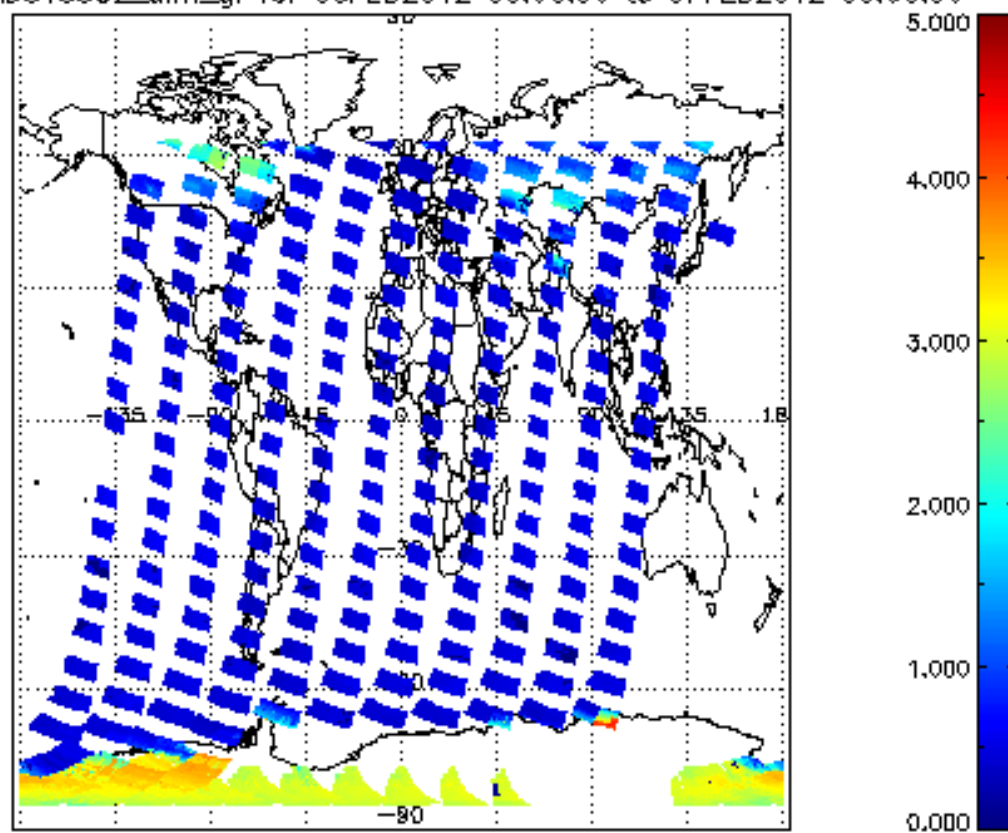
SCIOL2P_NADUV5S02_vcd for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



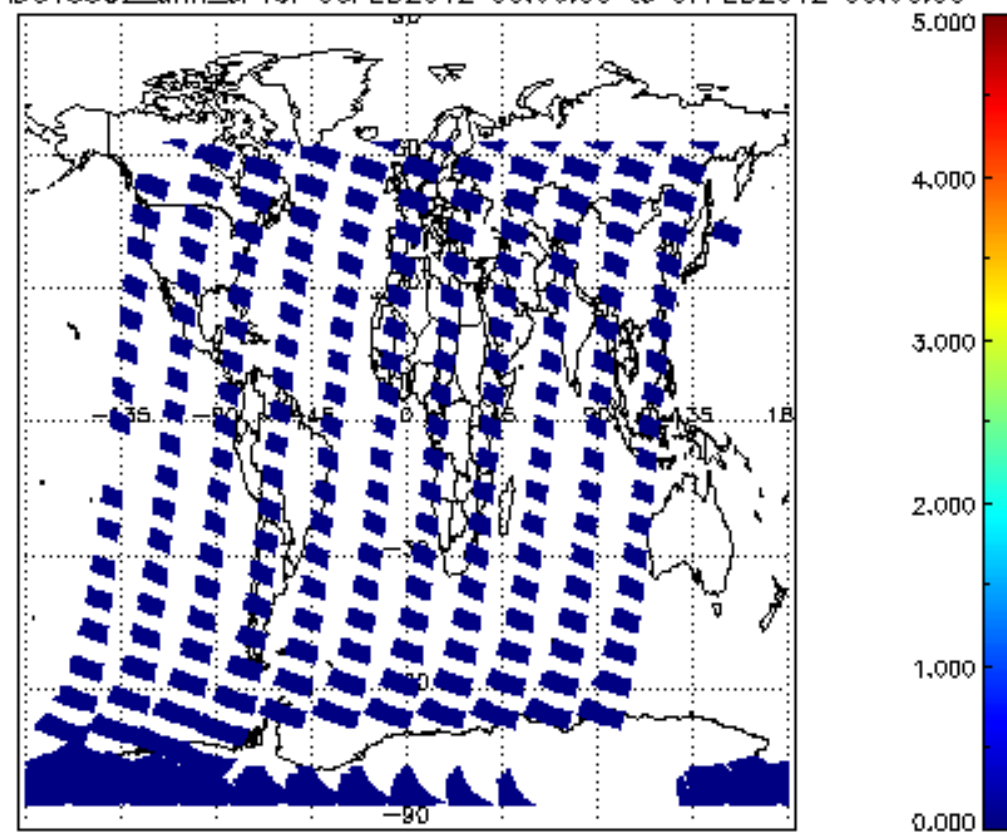
SCIOL2P_NADUV5S02_vcd_err for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

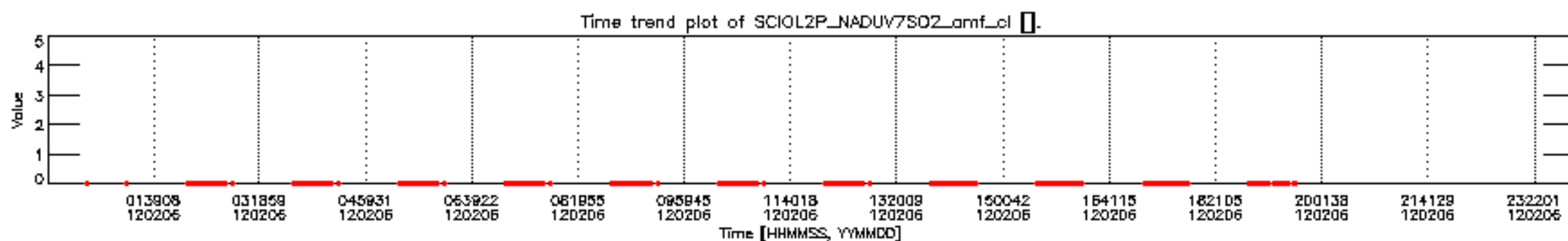
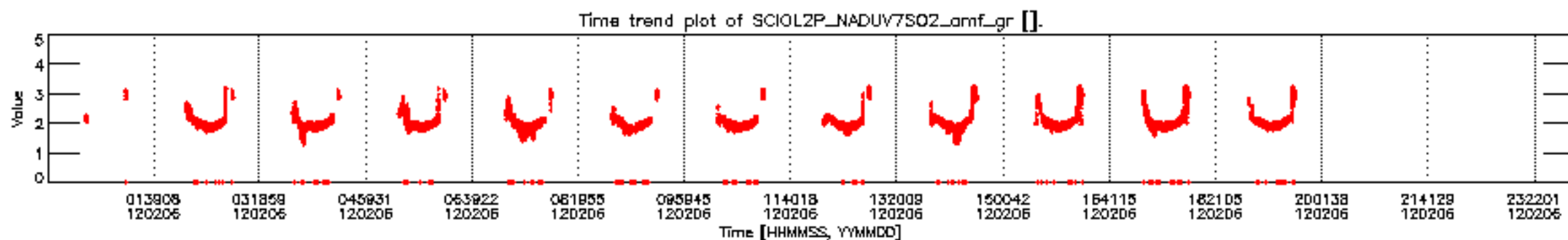
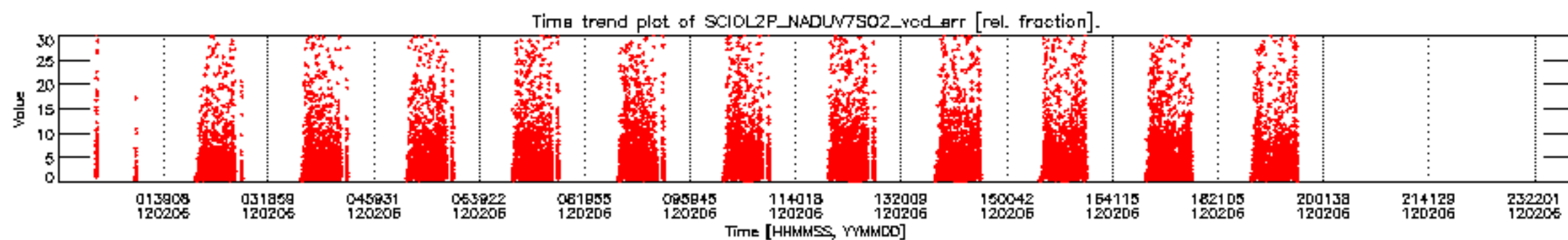
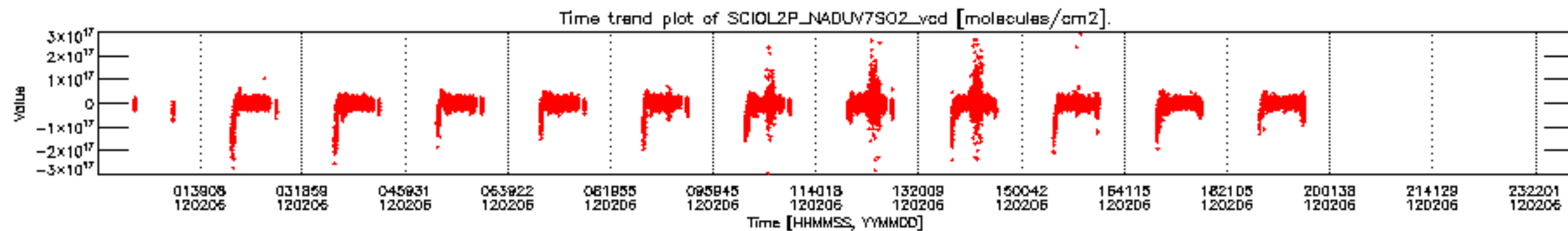


SCIOL2P_NADUV5S02_amf_gr for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

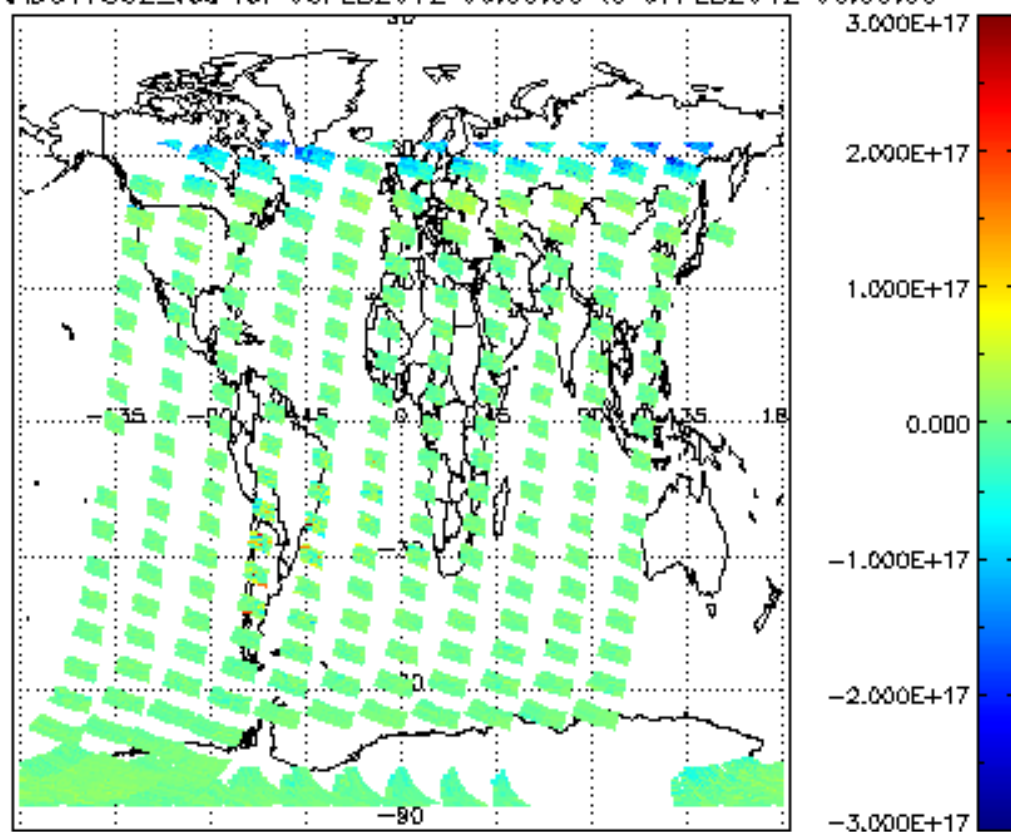


SCIOL2P_NADUV5S02_amf_cl for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

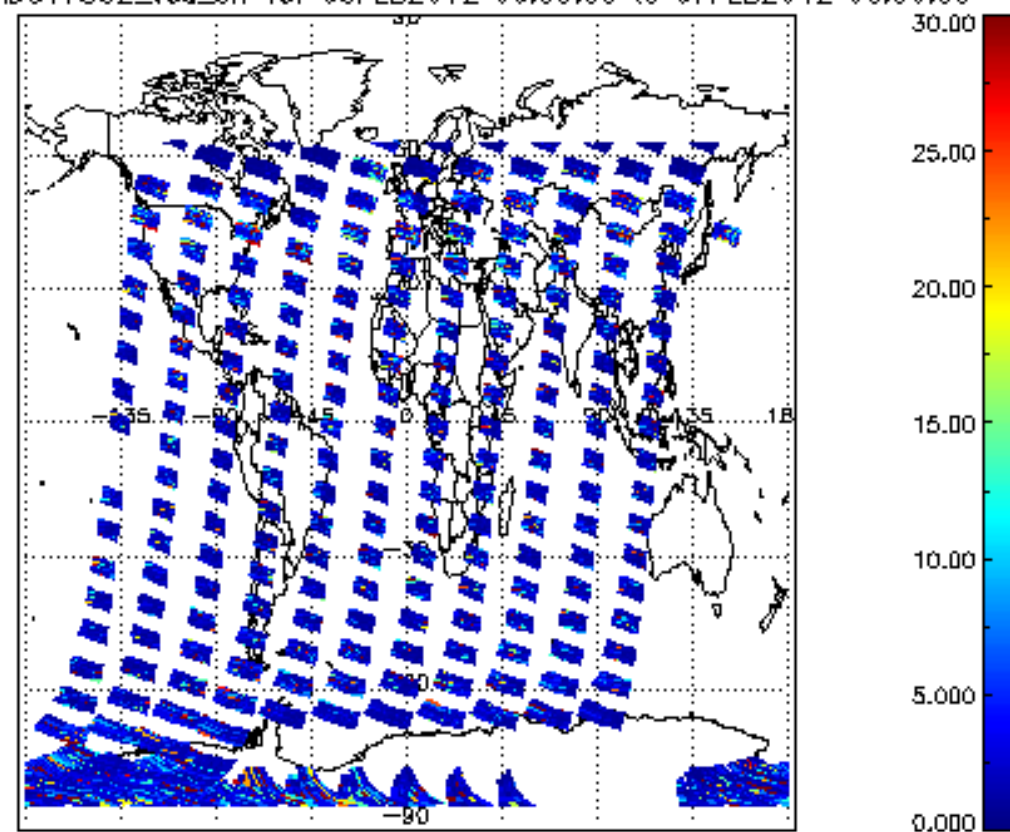




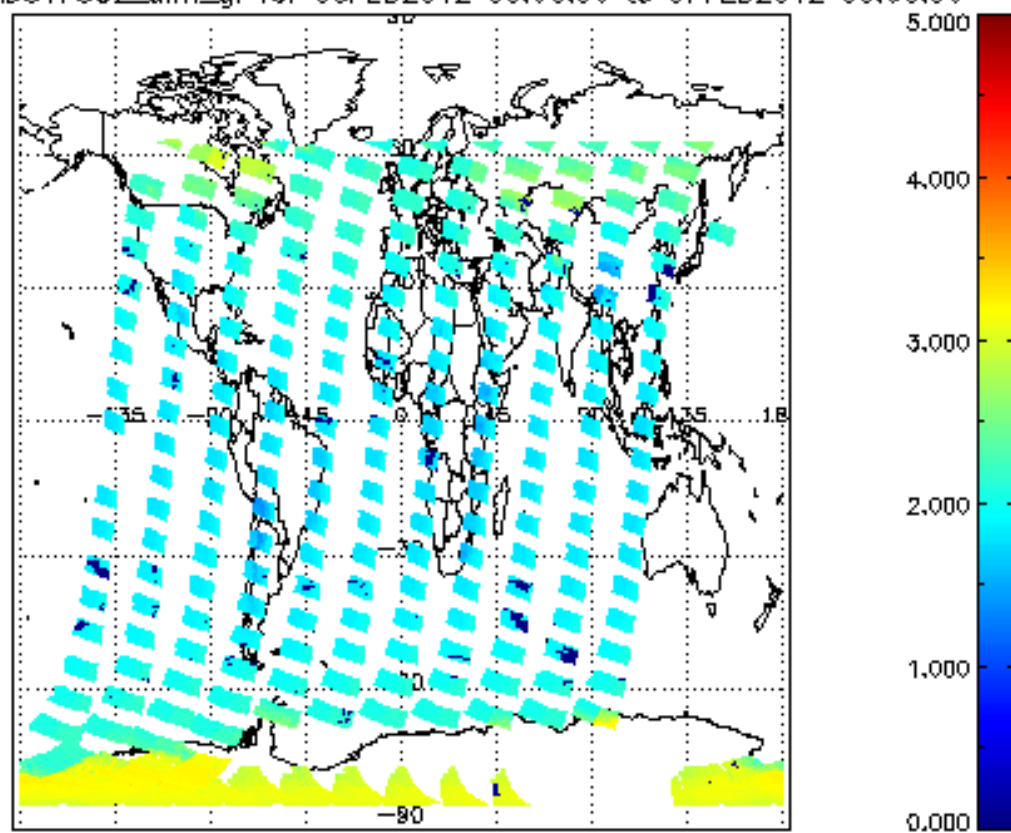
SCIOL2P_NADUV7S02_vcd for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



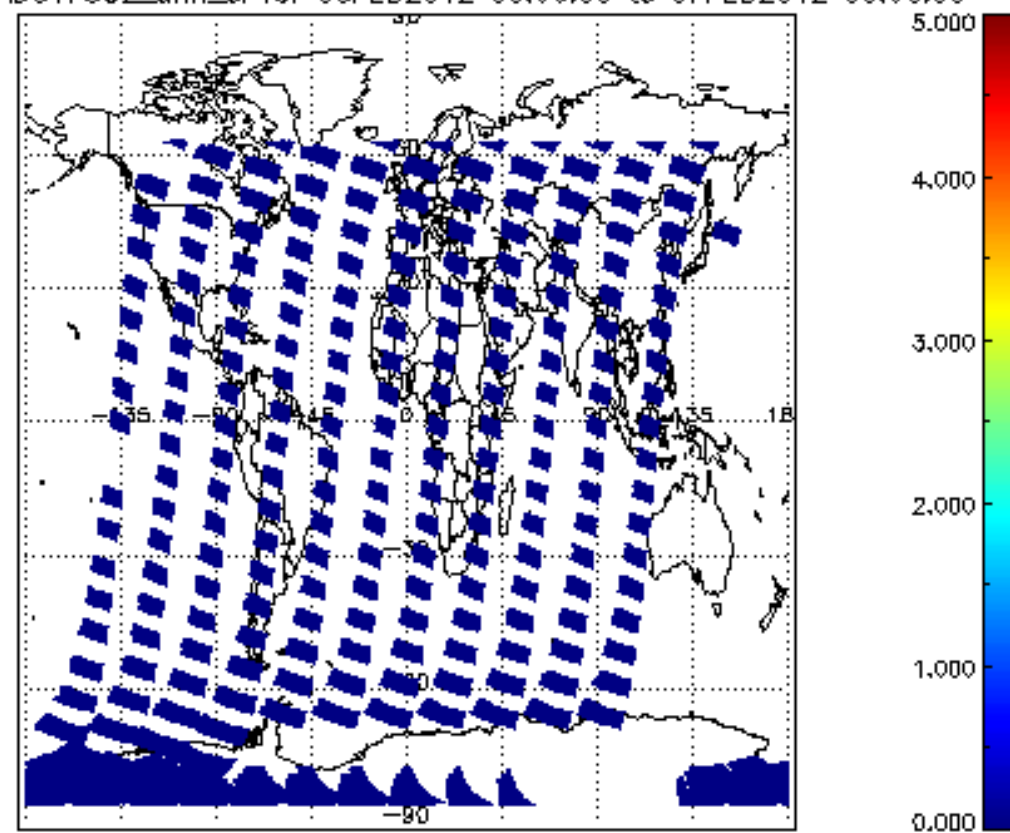
SCIOL2P_NADUV7S02_vcd_err for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

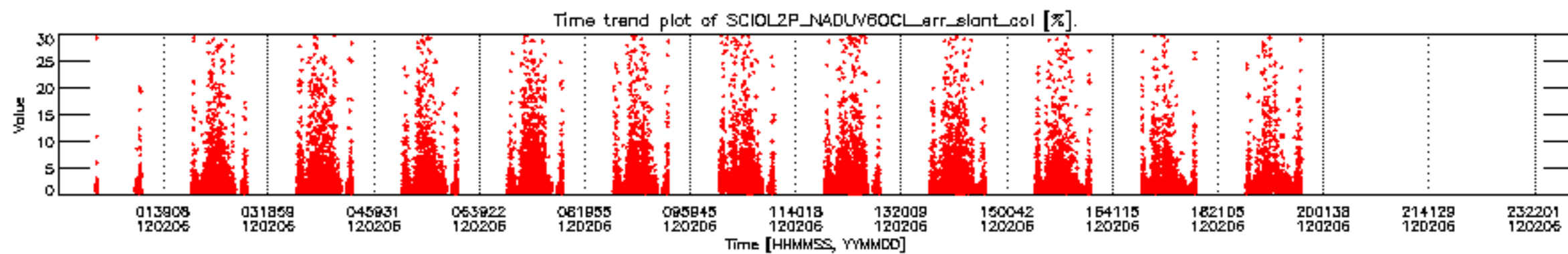
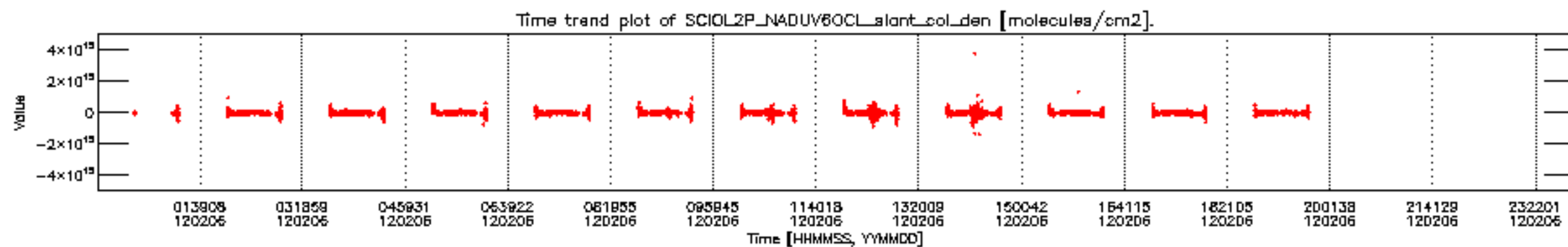


SCIOL2P_NADUV7S02_amf_gr for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

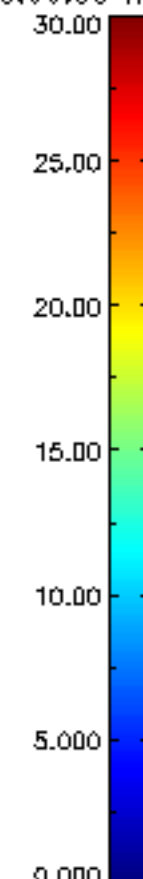
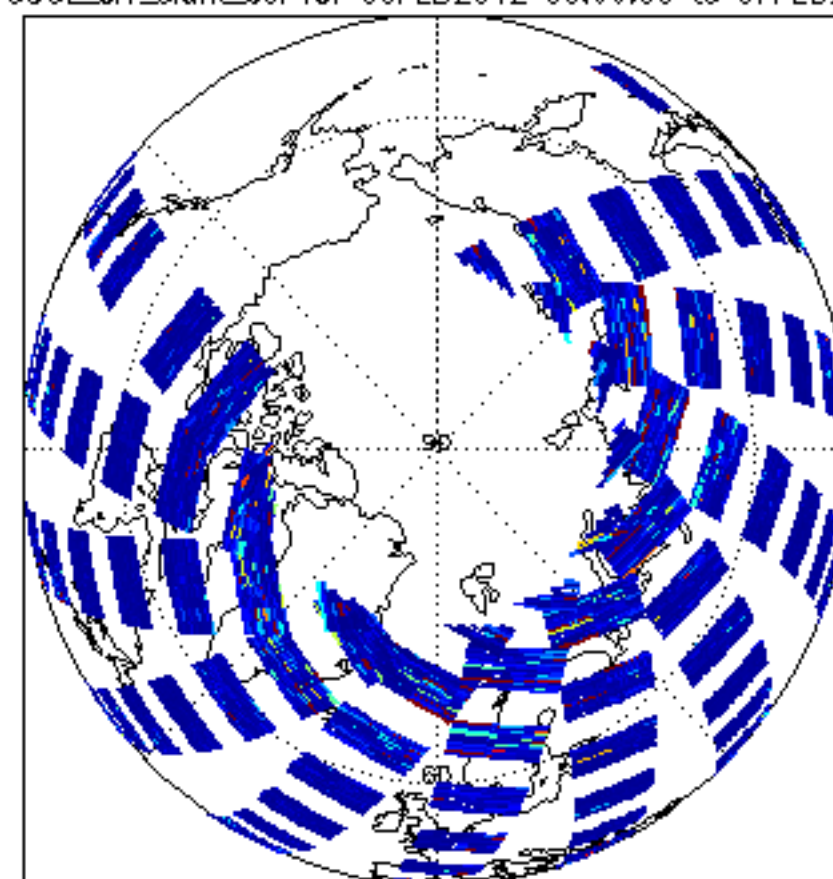
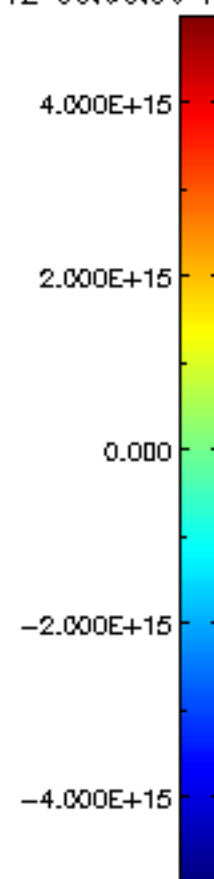
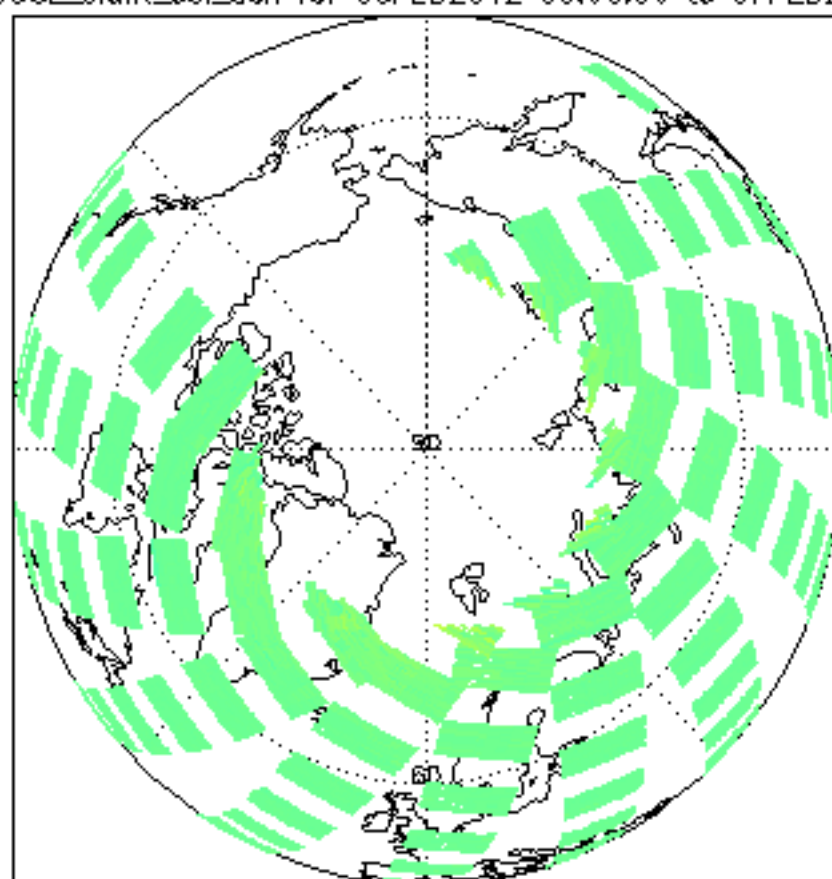


SCIOL2P_NADUV7S02_amf_cl for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

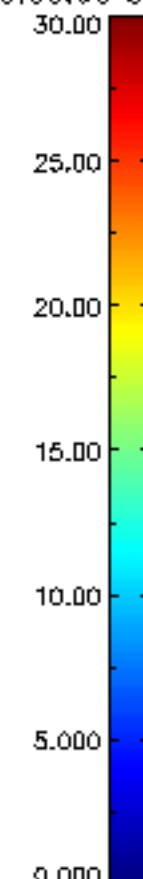
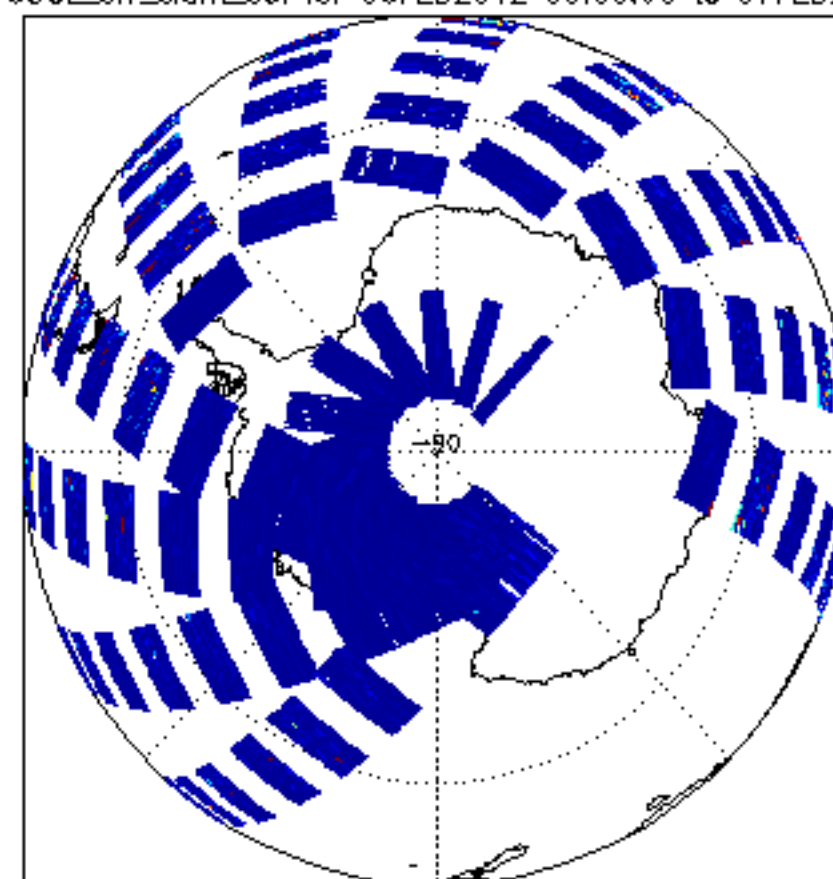
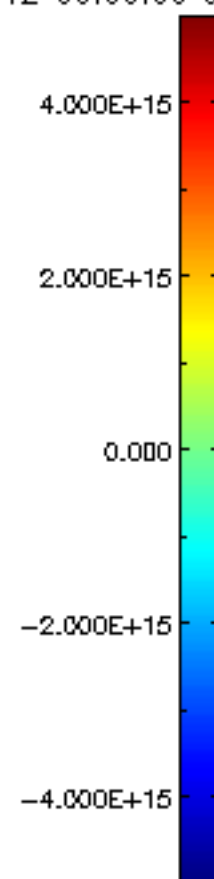
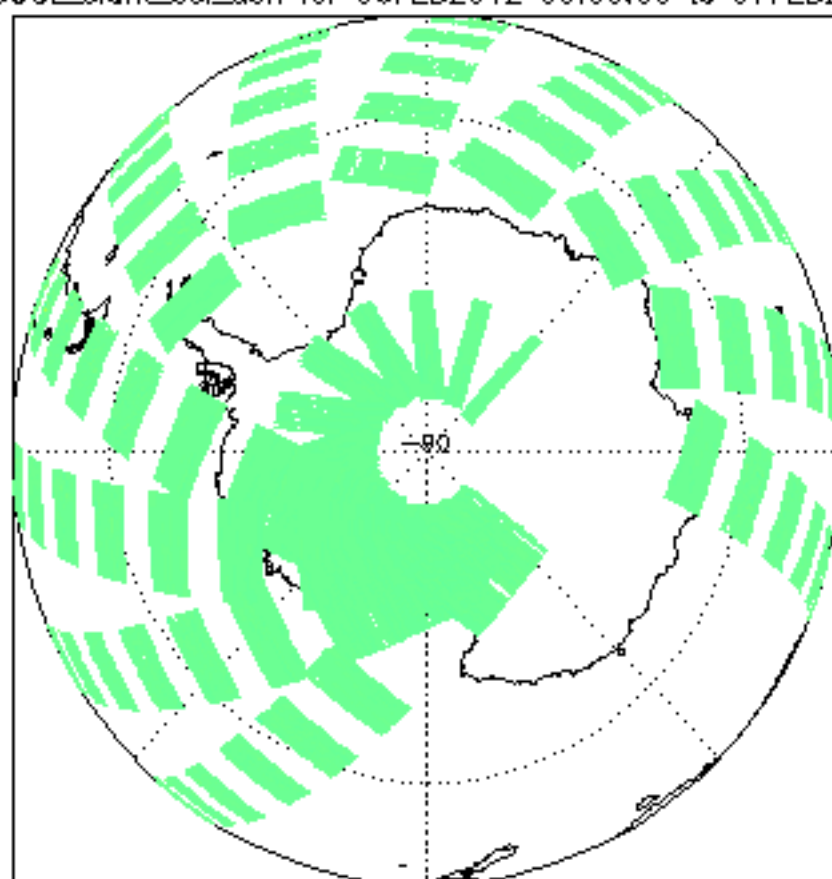


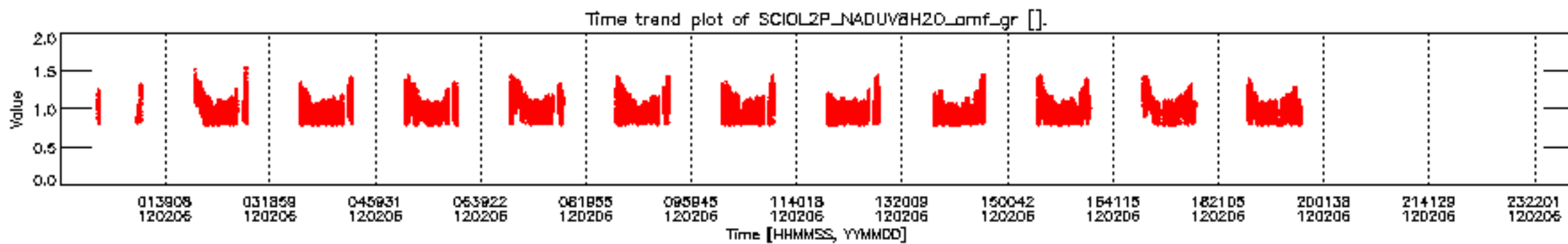
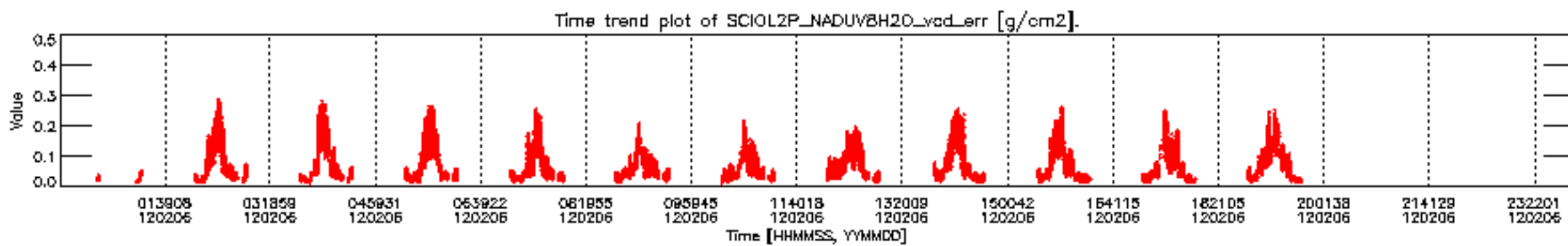
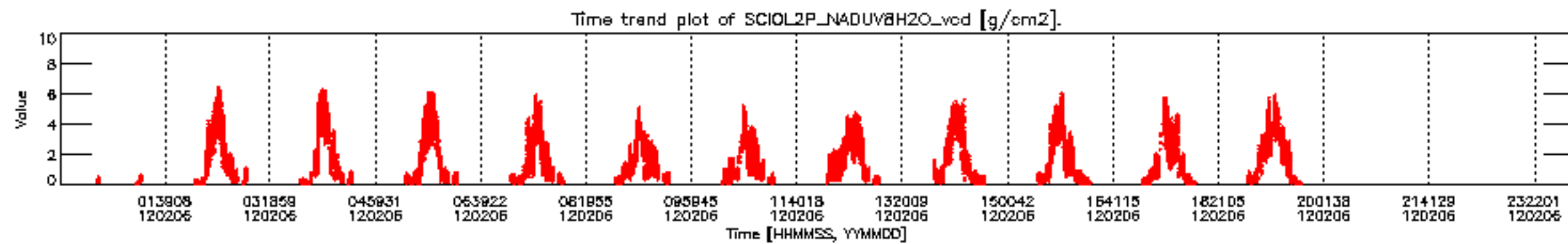


CIOL2P_NADUV6OCL_slant_col_den for 06FEB2012 00:00:00 to 07FEB2012 00:00:00 np; CIOL2P_NADUV6OCL_err_slant_col for 06FEB2012 00:00:00 to 07FEB2012 00:00:00 np

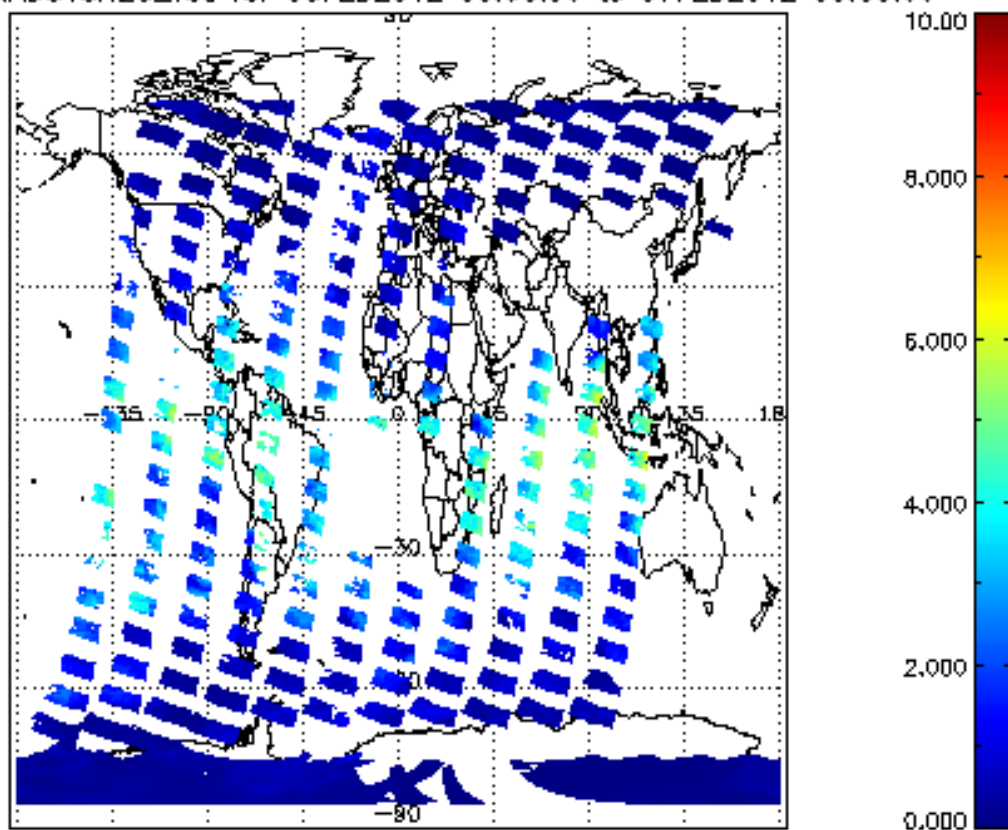


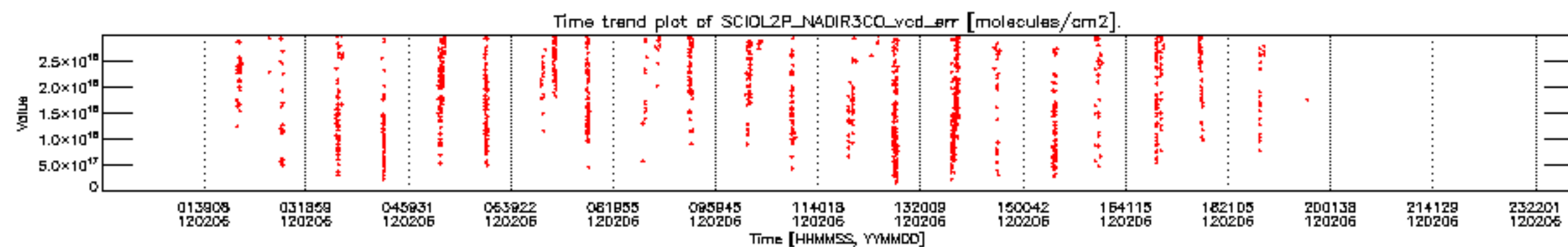
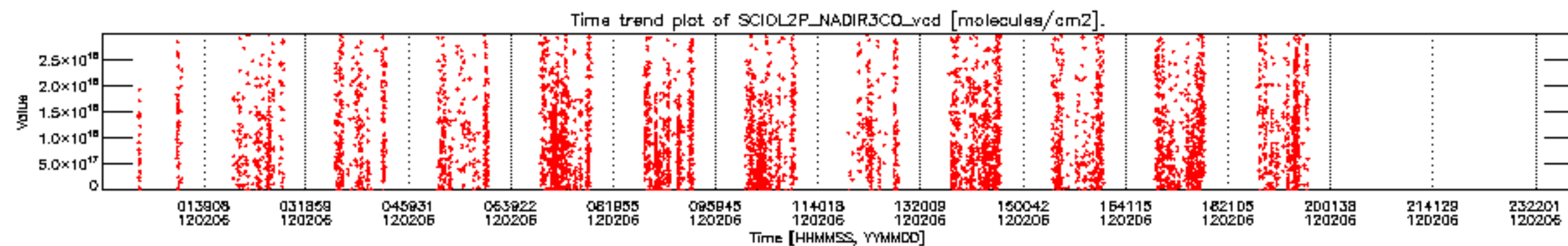
CIOL2P_NADUV6OCL_slant_col_den for 06FEB2012 00:00:00 to 07FEB2012 00:00:00 sp; CIOL2P_NADUV6OCL_err_slant_col for 06FEB2012 00:00:00 to 07FEB2012 00:00:00 sp



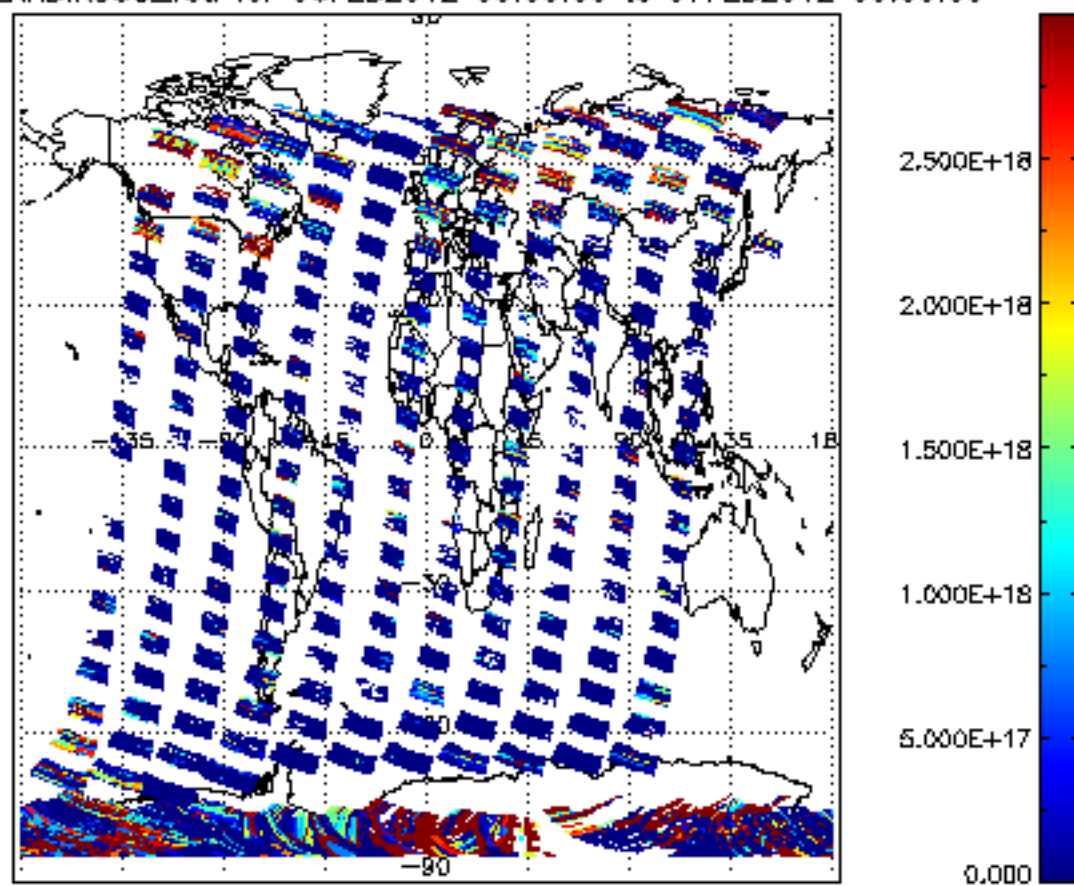


SCIOL2P_NADUV8H2O_vcd for 06FEB2012 00:00:00 to 07FEB2012 00:00:00

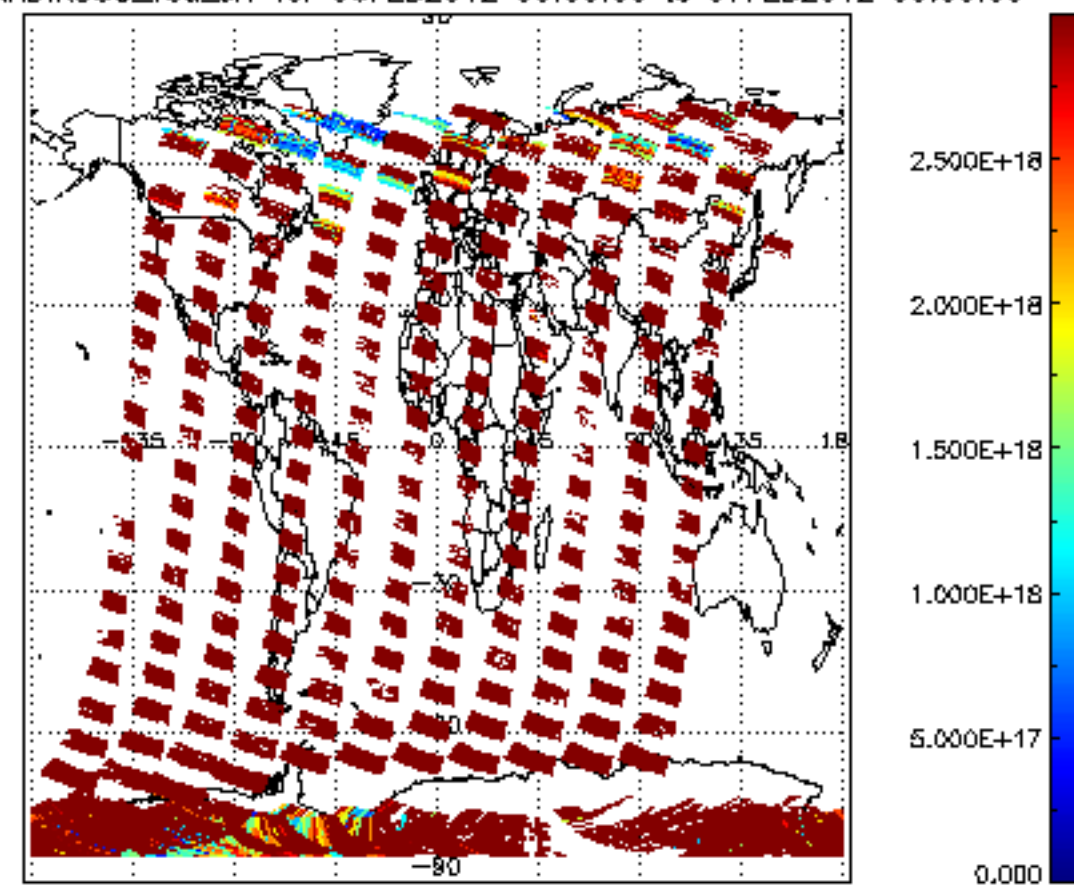




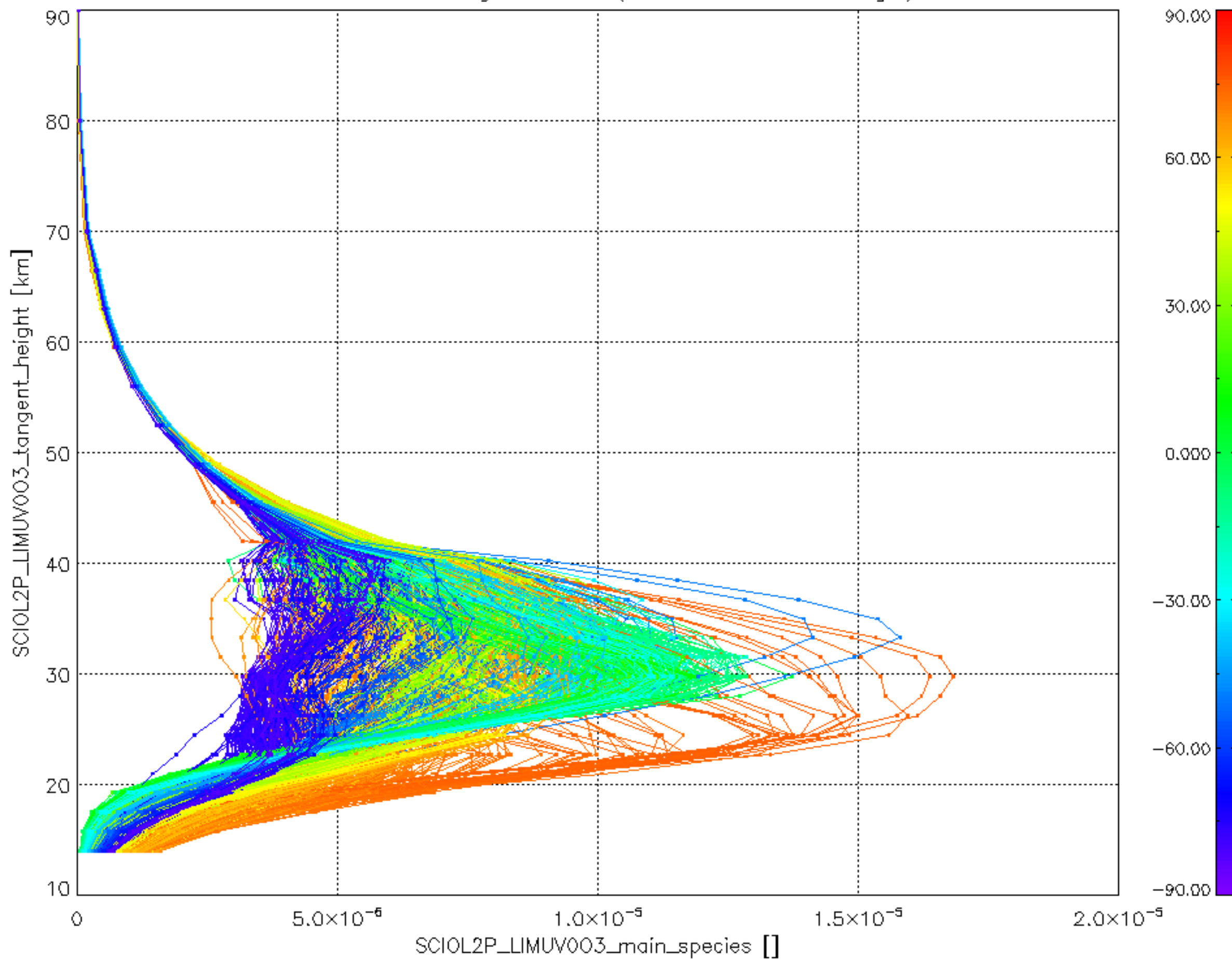
SCIOL2P_NADIR3CO_vcd for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



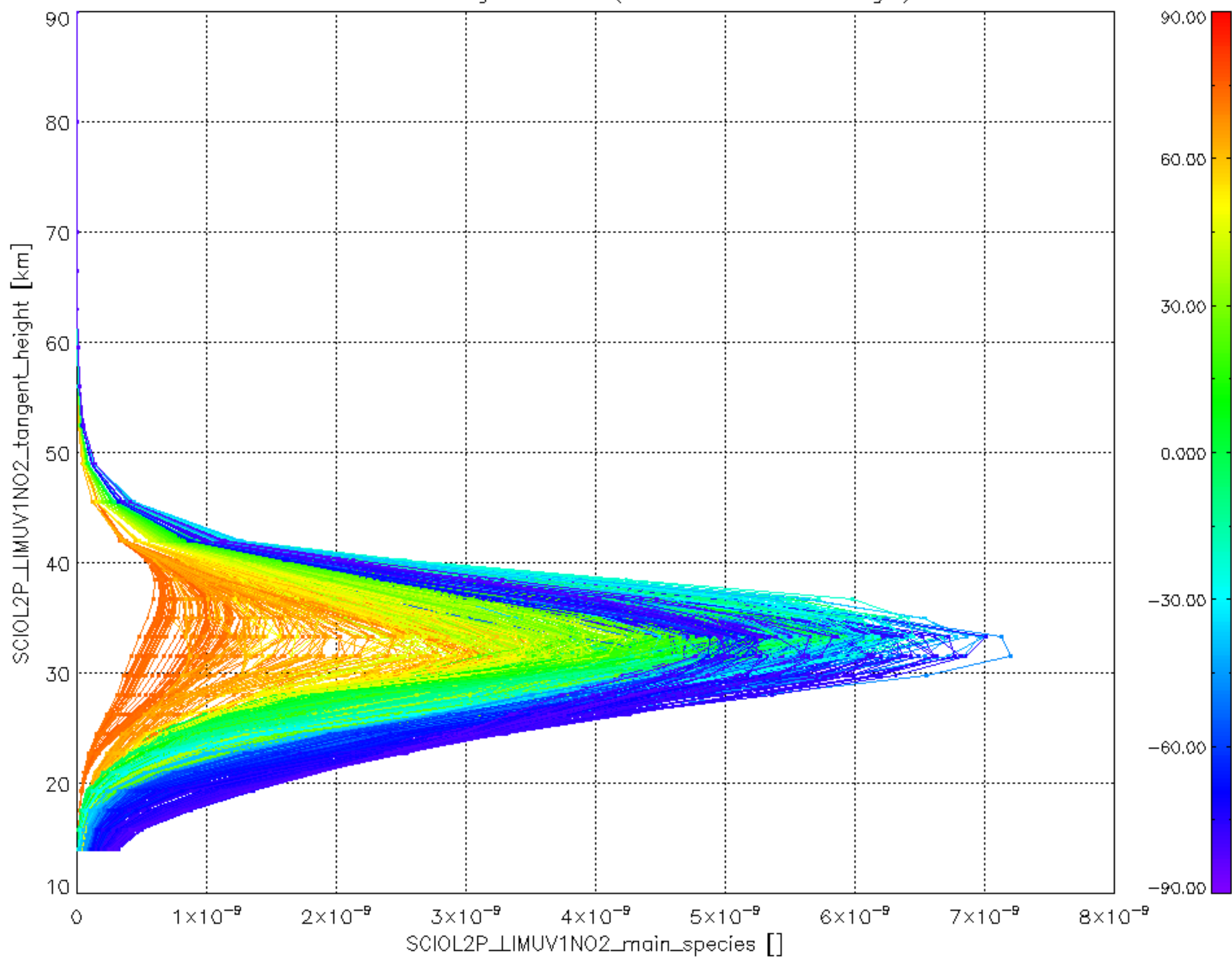
SCIOL2P_NADIR3CO_vcd_err for 06FEB2012 00:00:00 to 07FEB2012 00:00:00



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).

