

2. SCIAMACHY Daily Report for Level 2 products

[2.1. General Info](#)

[2.2 Product Quality Indicators](#)

- [2.2.1 Cloud parameters](#)
- [2.2.2 Nadir](#)
 - [2.2.2.1 O3 \(UV0\)](#)
 - [2.2.2.2 NO2 \(UV1\)](#)
 - [2.2.2.3 BrO \(UV3\)](#)
 - [2.2.2.4 SO2 \(UV5\)](#)
 - [2.2.2.5 SO2 \(UV7\)](#)
 - [2.2.2.6 OCIO \(UV6\)](#)
 - [2.2.2.7 H2O \(UV8\)](#)
 - [2.2.2.8 CO \(IR3\)](#)
- [2.2.3 Limb](#)
 - [2.2.3.1 O3 \(UV0\)](#)
 - [2.2.3.2 NO2 \(UV1\)](#)
 - [2.2.3.3 BrO \(UV3\)](#)

[2.3 ADF monitoring](#)

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	20MAR2012 15:13:23
Data source version	SCIA-OL/5.02-W
Processing scope for products	06MAR2012 00:00:00 to 07MAR2012 00:00:00
Start time of first product within scope	05MAR2012 23:13:03
Stop time of last product within scope	07MAR2012 01:15:21
Total number of level 2 products	16
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__2PWDPA20120305_231303_000035153112_00217_52386_3866.N1	05MAR2012 23:13:03	06MAR2012 00:11:38	0	GOOD
1	SCI_OL__2PWDPA20120306_005316_000035083112_00218_52387_3867.N1	06MAR2012 00:53:16	06MAR2012 01:51:45	0	GOOD
2	SCI_OL__2PWDPA20120306_023330_000035013112_00219_52388_3868.N1	06MAR2012 02:33:30	06MAR2012 03:31:51	0	GOOD
3	SCI_OL__2PWDPA20120306_041343_000035633112_00220_52389_3869.N1	06MAR2012 04:13:43	06MAR2012 05:13:06	0	GOOD
4	SCI_OL__2PWDPA20120306_055357_000035553112_00221_52390_3870.N1	06MAR2012 05:53:57	06MAR2012 06:53:13	0	GOOD

5	SCI_OL__2PWDP	A20120306_073410_000035483112_00222_52391_3871.N1	06MAR2012 07:34:10	06MAR2012 08:33:19	0	GOOD
6	SCI_OL__2PWDP	A20120306_091424_000035413112_00223_52392_3872.N1	06MAR2012 09:14:24	06MAR2012 10:13:25	0	GOOD
7	SCI_OL__2PWDP	A20120306_105437_000035333112_00224_52393_3873.N1	06MAR2012 10:54:37	06MAR2012 11:53:31	0	GOOD
8	SCI_OL__2PWDP	A20120306_123451_000035253112_00225_52394_3874.N1	06MAR2012 12:34:51	06MAR2012 13:33:37	0	GOOD
9	SCI_OL__2PWDP	A20120306_141504_000035183112_00226_52395_3875.N1	06MAR2012 14:15:04	06MAR2012 15:13:42	0	GOOD
10	SCI_OL__2PWDP	A20120306_155518_000035103112_00227_52396_3876.N1	06MAR2012 15:55:18	06MAR2012 16:53:48	0	GOOD
11	SCI_OL__2PWDP	A20120306_173634_000034503112_00228_52397_3877.N1	06MAR2012 17:36:34	06MAR2012 18:34:05	0	GOOD
12	SCI_OL__2PWDP	A20120306_191603_000035433112_00229_52398_3878.N1	06MAR2012 19:16:03	06MAR2012 20:15:07	0	GOOD
13	SCI_OL__2PWDP	A20120306_205558_000035533112_00230_52399_3879.N1	06MAR2012 20:55:58	06MAR2012 21:55:12	0	GOOD
14	SCI_OL__2PWDP	A20120306_223612_000035453112_00231_52400_3880.N1	06MAR2012 22:36:12	06MAR2012 23:35:17	0	GOOD
15	SCI_OL__2PWDP	A20120307_001625_000035363112_00232_52401_3881.N1	07MAR2012 00:16:25	07MAR2012 01:15:21	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: 132163

Total number of cloud data DSRs with good quality flag (=0): 132163 (100.0 %)

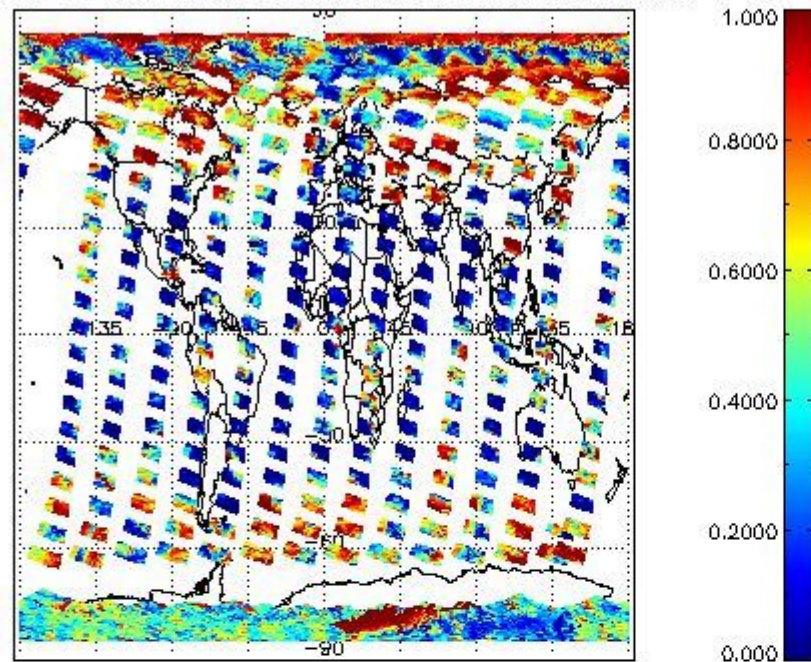
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	132163	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	132163	0.16951	0.12500	0.12500	0.25000	0.059855	s
CL_FRAC	132163	0.48291	0.46721	0.0000	1.0000	0.34347	
CL_FRAC_ERR	132163	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	132163	5.4243	4.0000	4.0000	8.0000	1.9154	
PMD_READ_CL[0]	132163	0.72800	0.0000	0.0000	8.0000	1.5837	-
PMD_READ_CL[1]	132163	1.2243	0.0000	0.0000	8.0000	2.5299	-
CL_TOP_HEIGHT	101981	3.8120	1.9660	0.0000	17.000	4.1261	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	101981	54.011	44.952	0.0000	101.00	40.182	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	132163	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	132163	11001101	11000100	11000000	11100000	3540.8	
AERO_ABSO_IND	132163	0.099129	0.0000	0.0000	7.4518	0.30294	
AERO_IND_DIAG	132163	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	132163	01010110	00000000	00000000	11000000	24465.	

Time and geolocation plots:

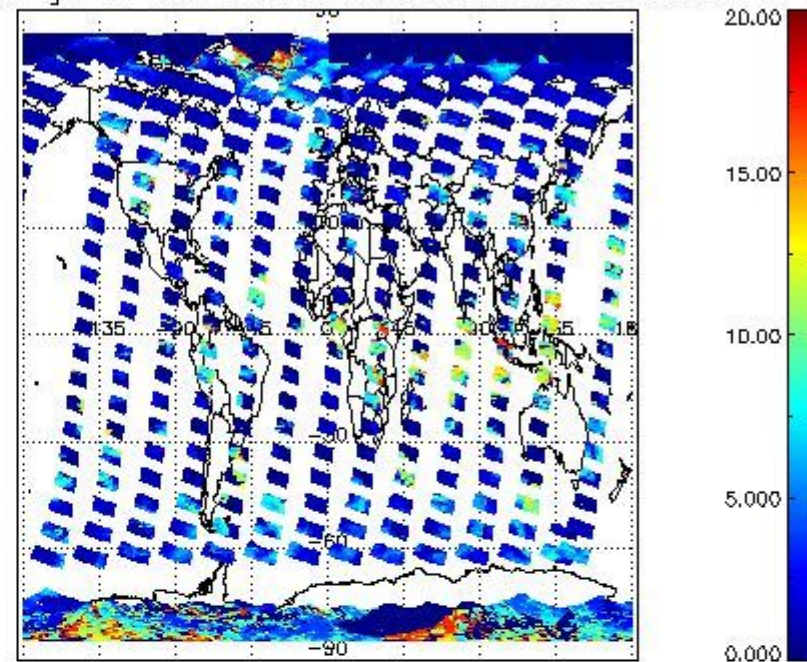
Plots are available for the following parameters:

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

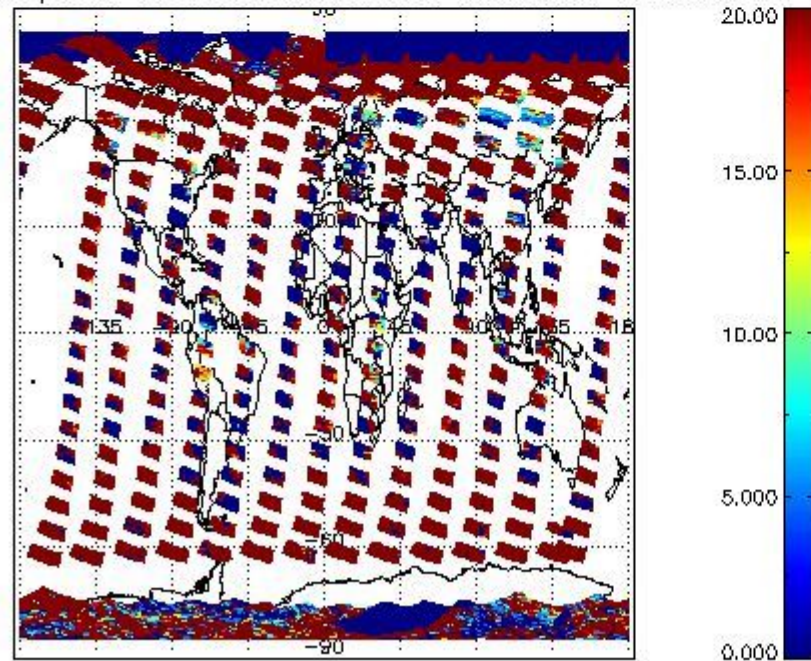
cL_frac for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



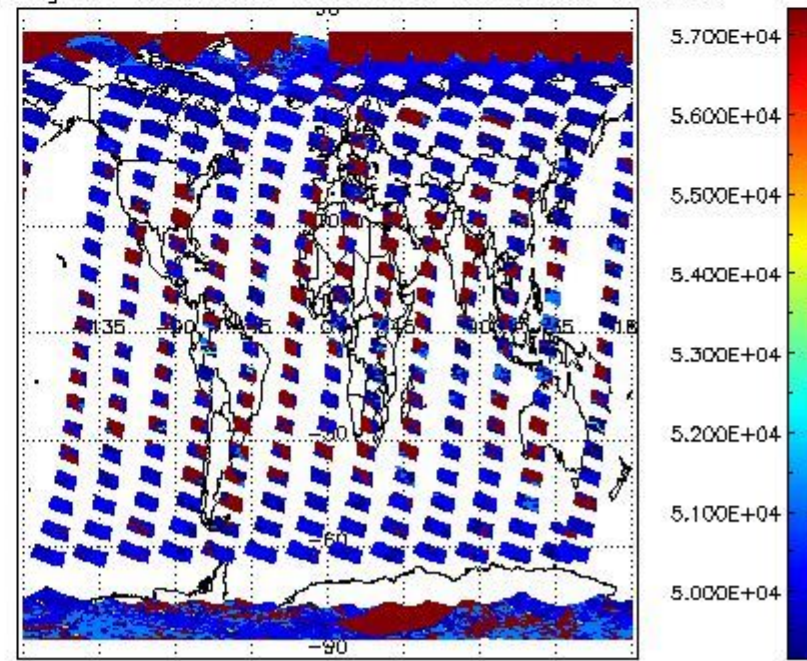
cL_top_height for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



cL_opt_depth for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



cloud_flags for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



2.2.2 Nadir

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

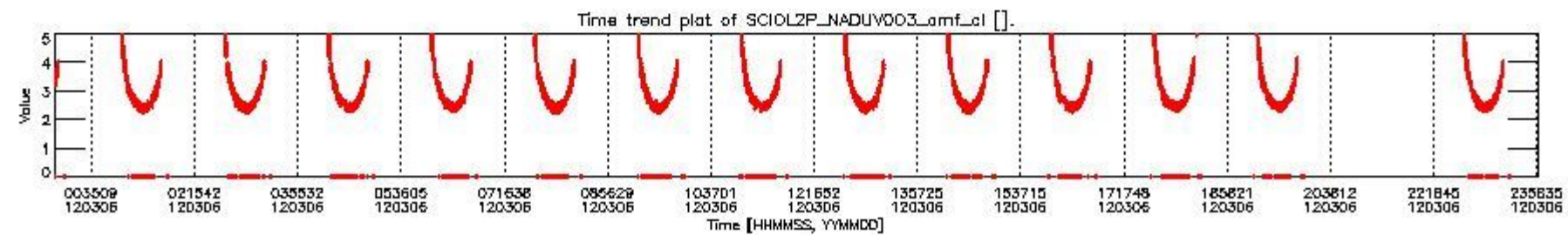
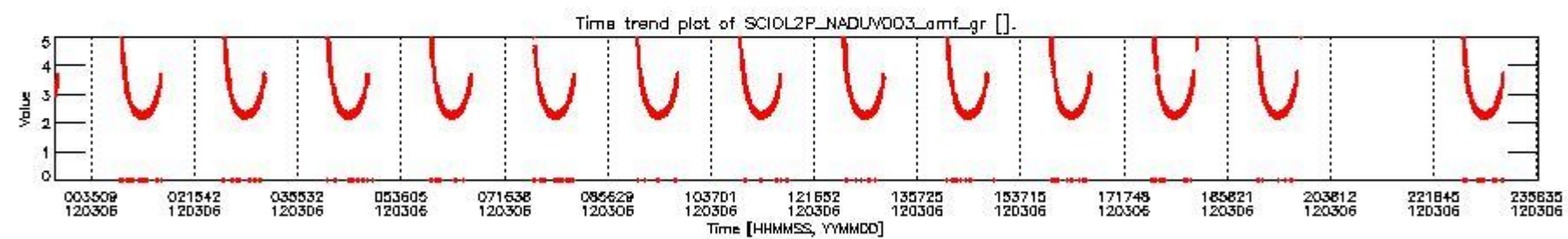
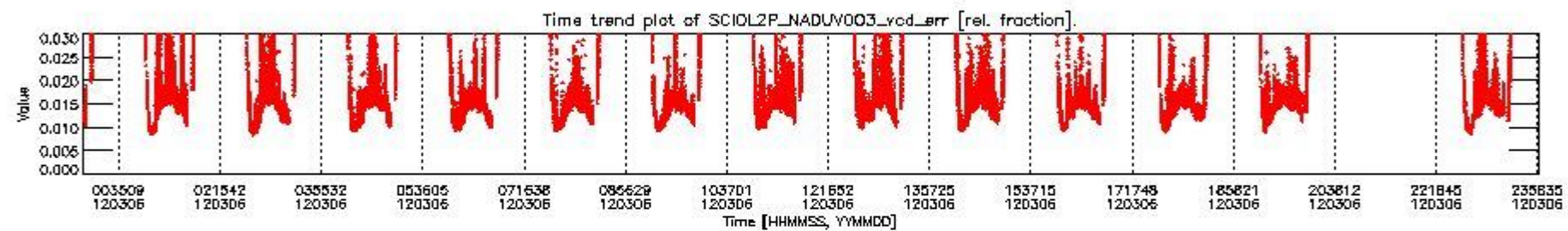
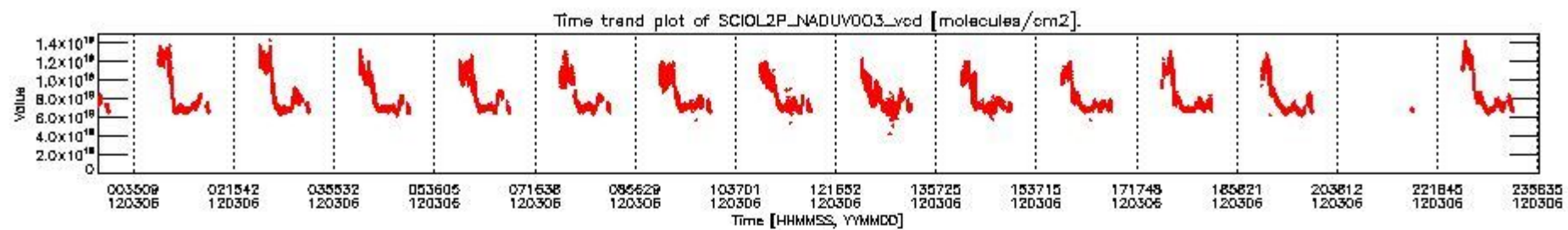
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

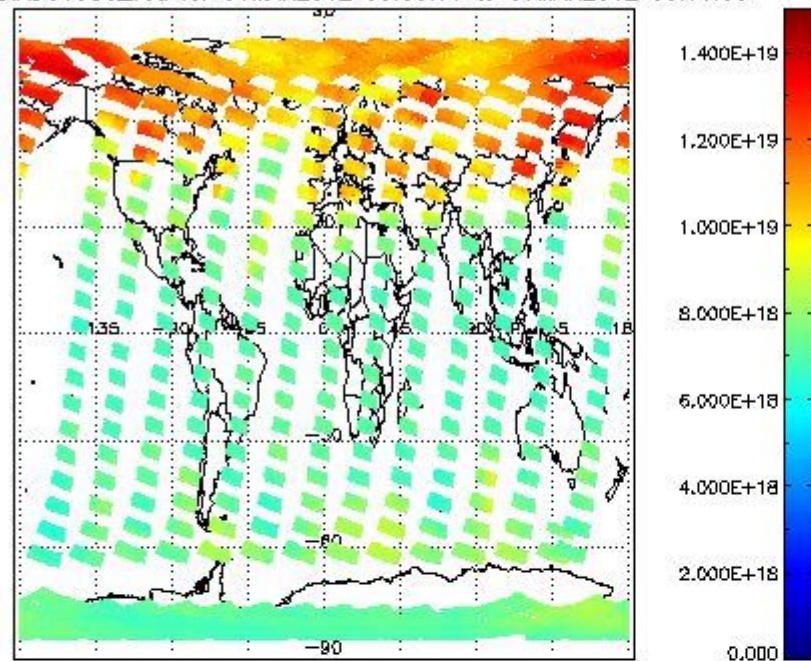
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

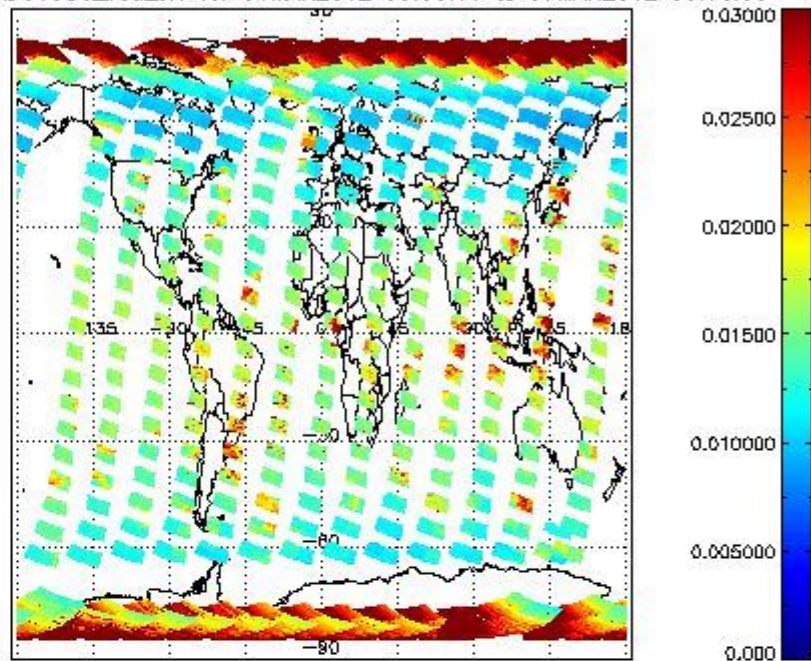
2.2.2.1 O3 (UV0)



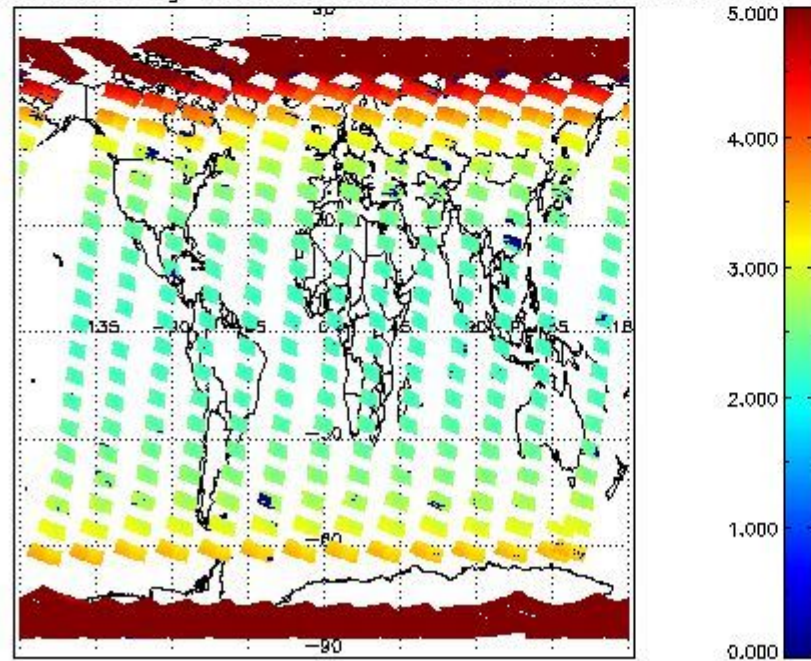
SCIOL2P_NADUV003_vcd for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



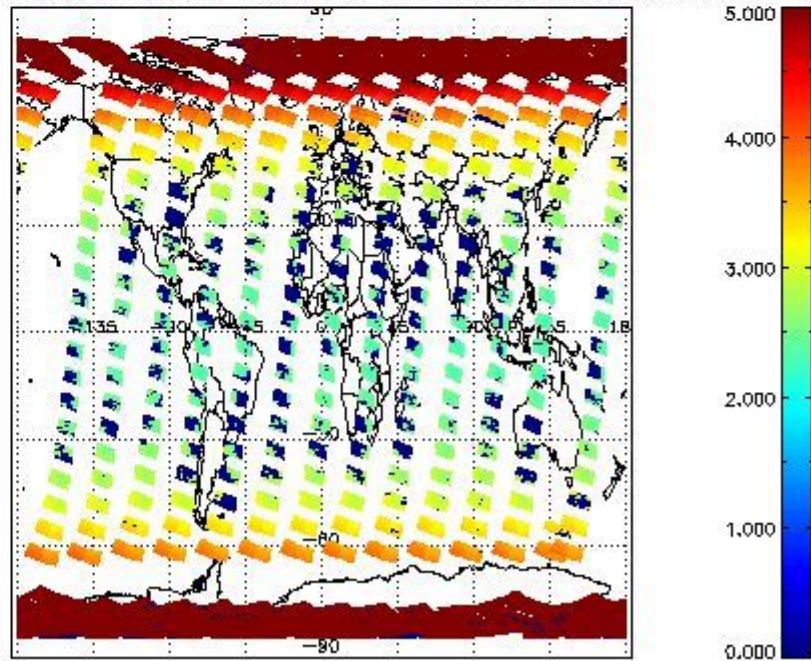
SCIOL2P_NADUV003_vcd_err for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



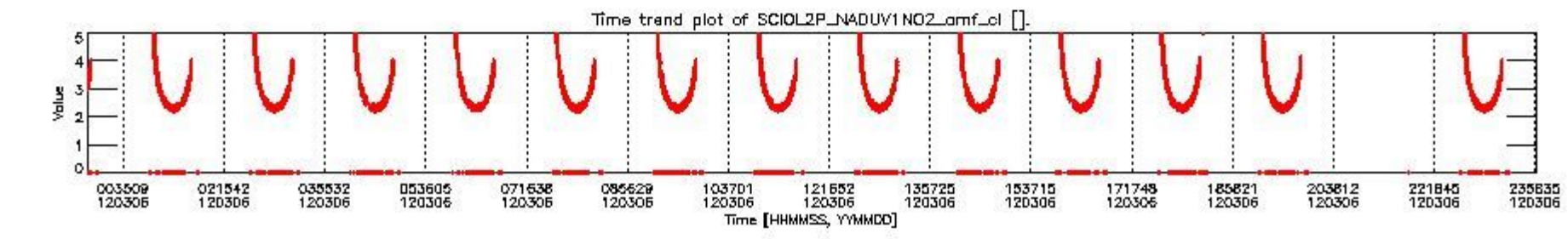
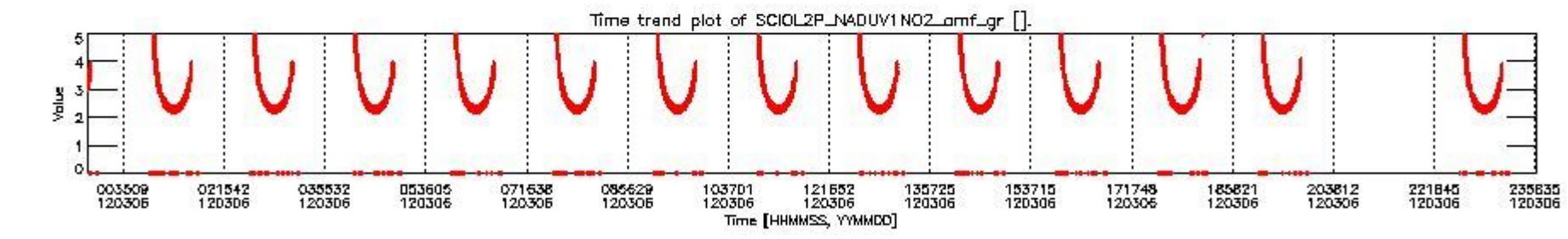
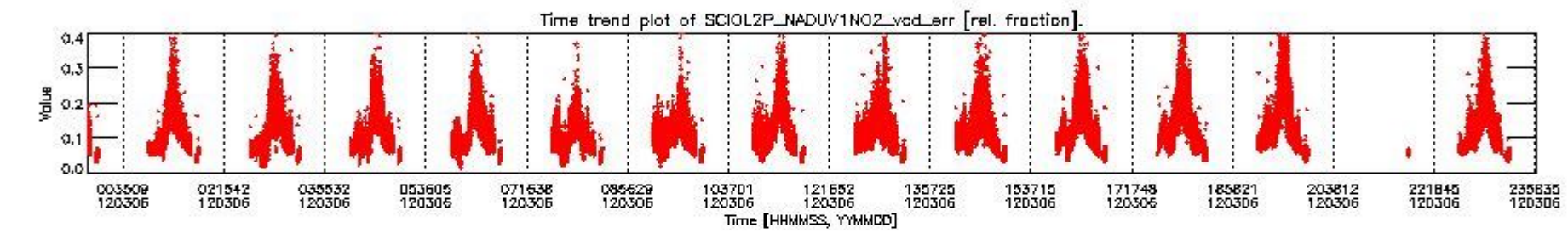
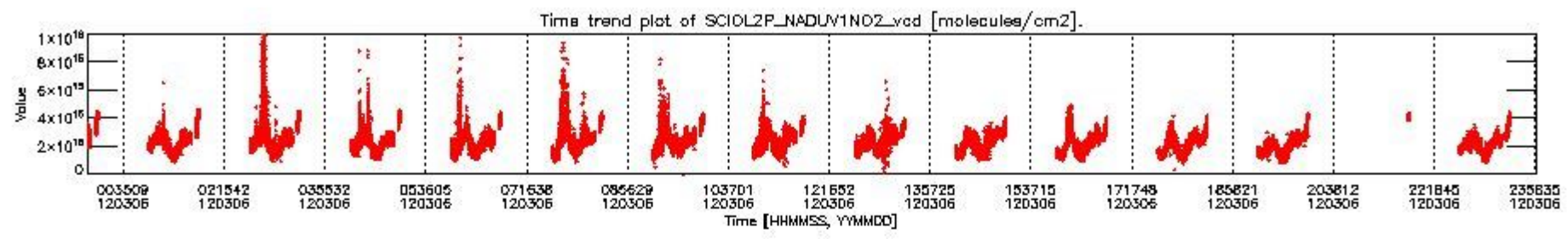
SCIOL2P_NADUV003_amf_gr for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



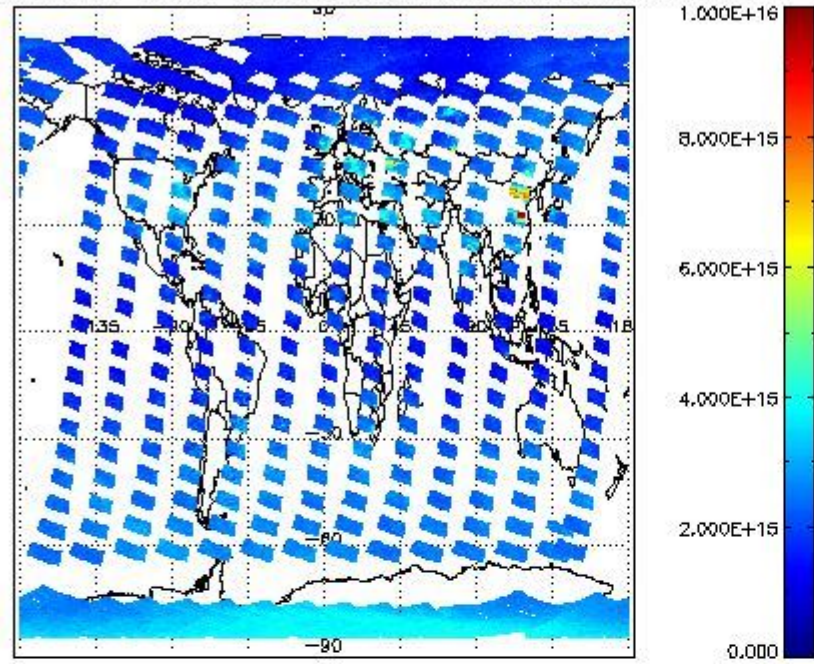
SCIOL2P_NADUV003_amf_cl for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



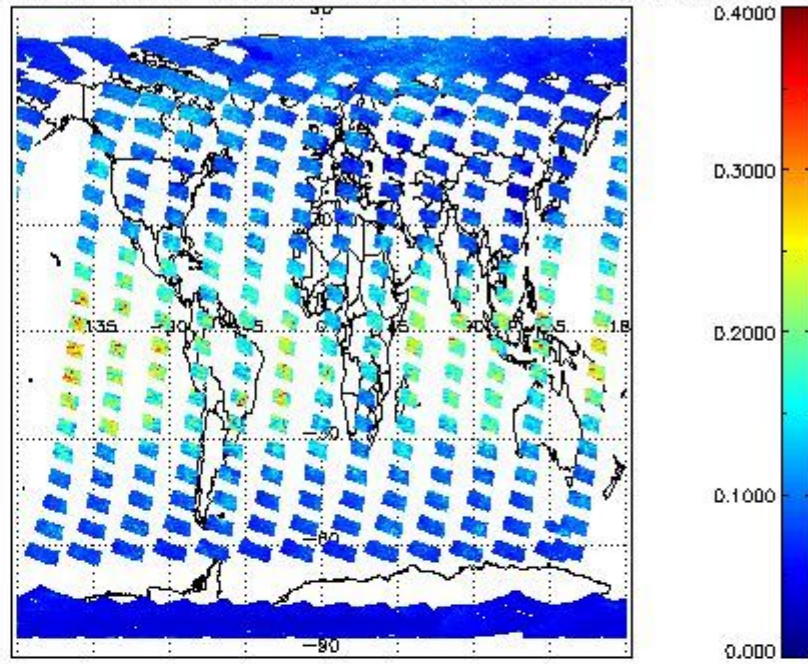
2.2.2.2 NO2 (UV1)



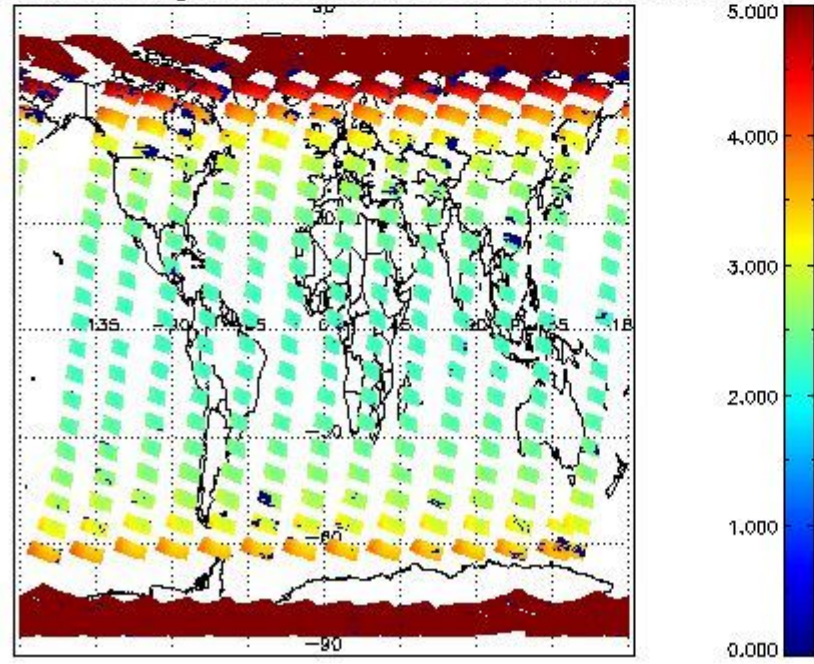
SCIOL2P_NADUV1NO2_vcd for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



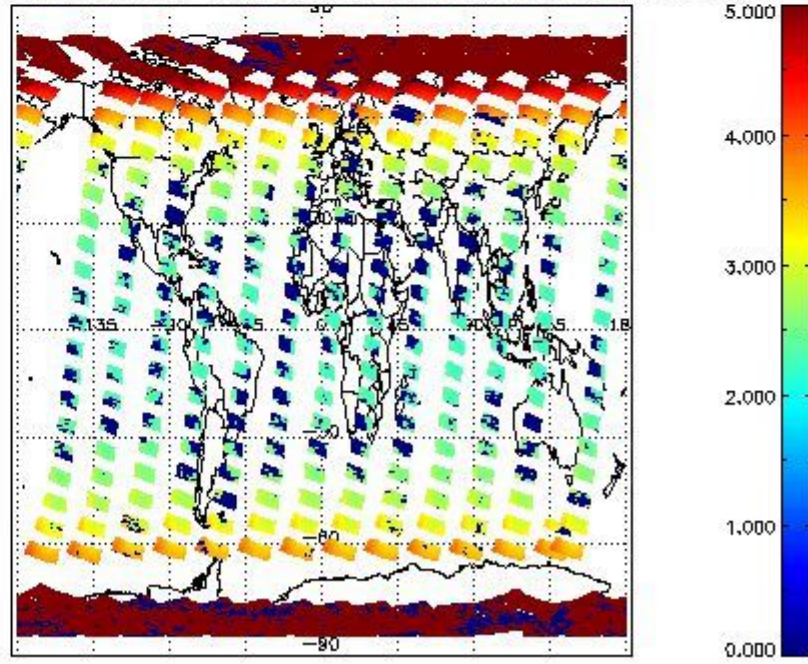
SCIOL2P_NADUV1NO2_vcd_err for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



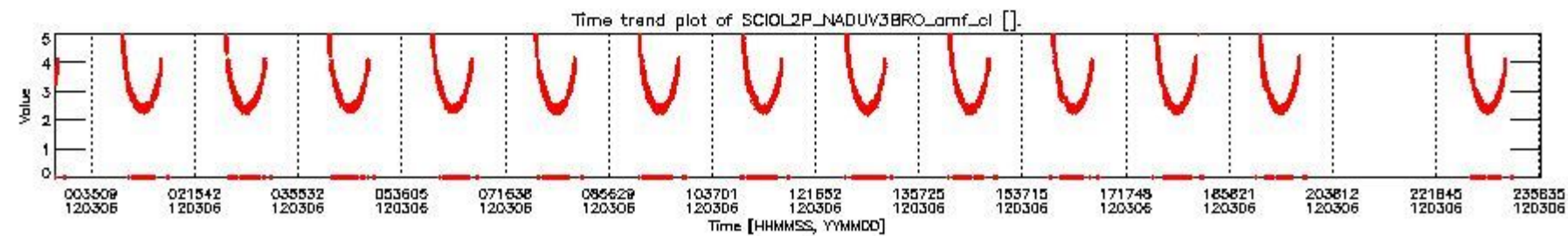
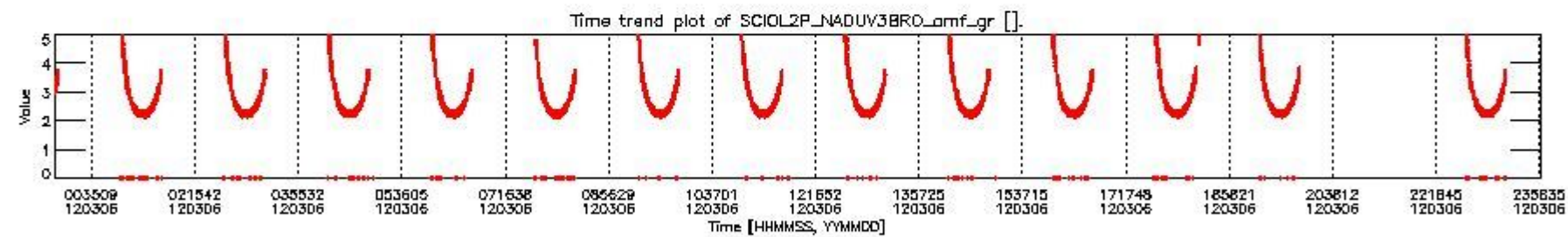
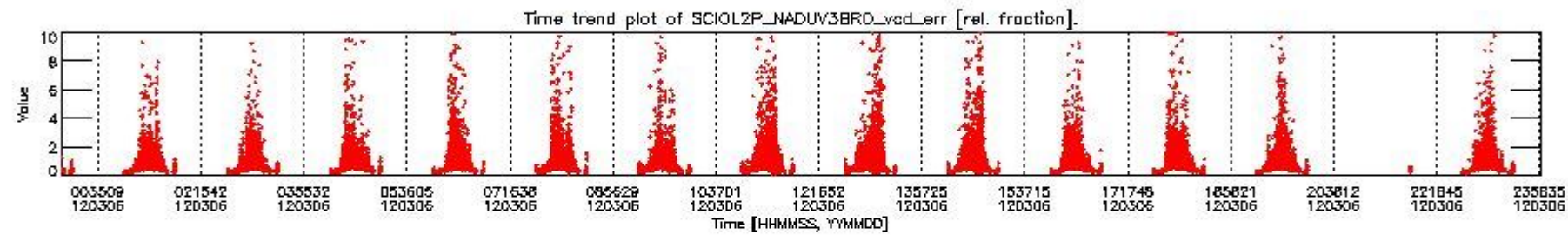
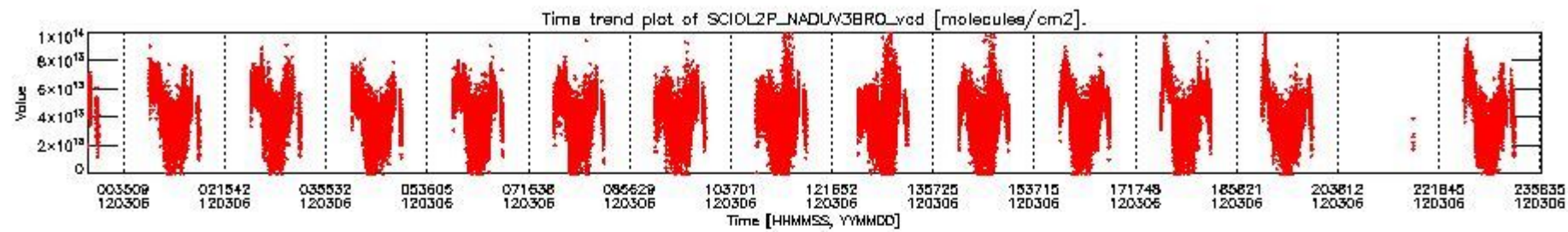
SCIOL2P_NADUV1NO2_amf_gr for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



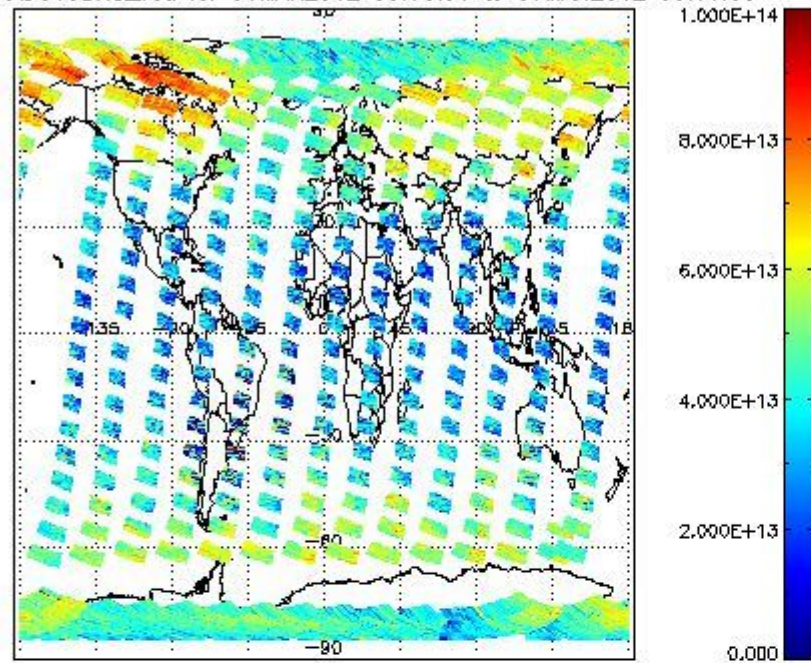
SCIOL2P_NADUV1NO2_amf_cl for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



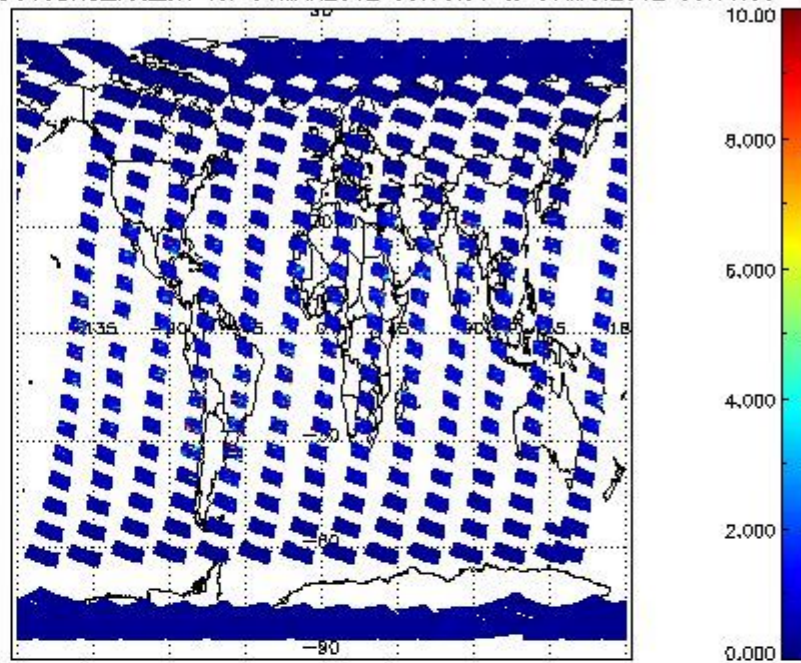
2.2.2.3 Bro (UV3)



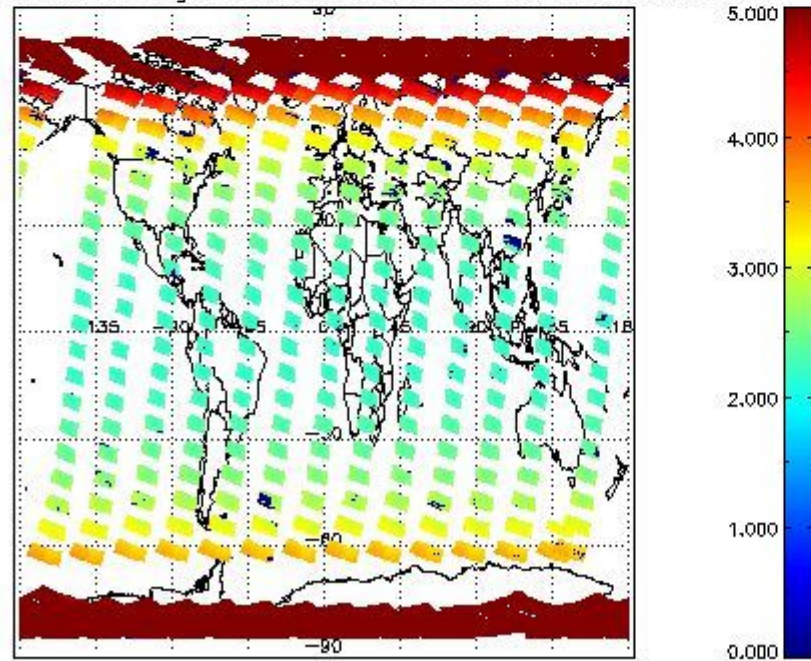
SCIOL2P_NADUV3BRO_vcd for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



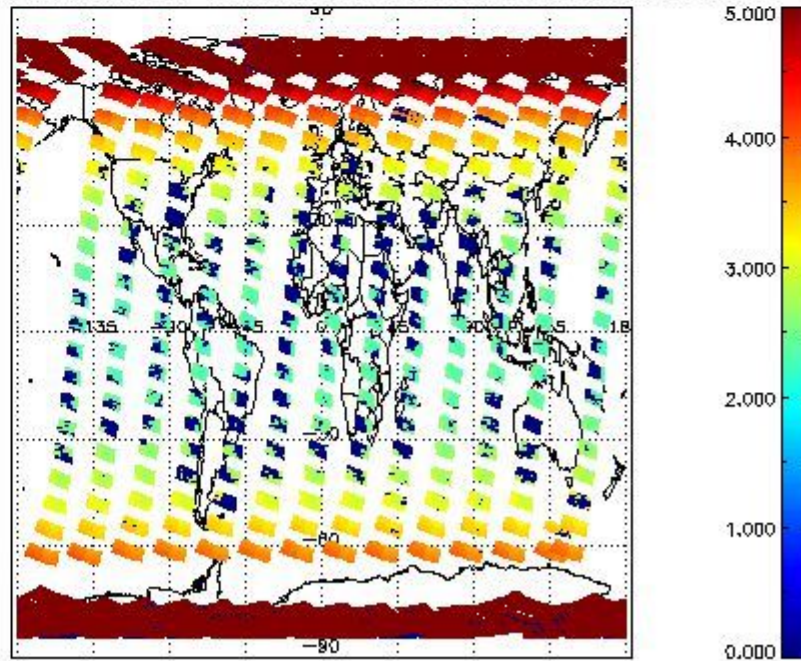
SCIOL2P_NADUV3BRO_vcd_err for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



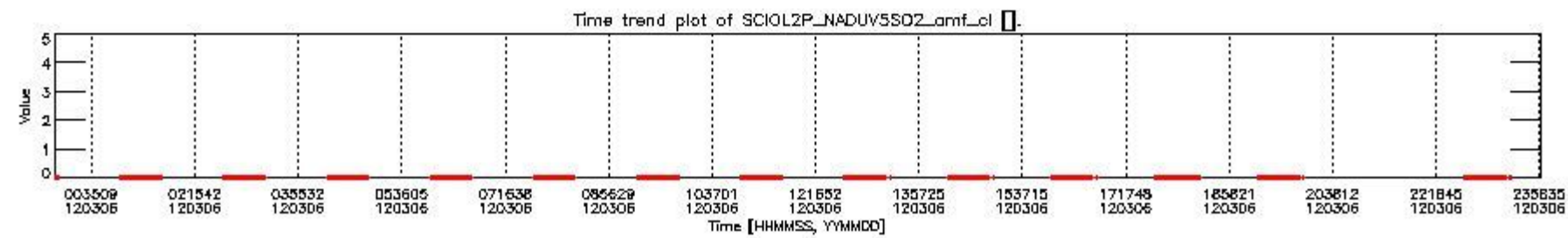
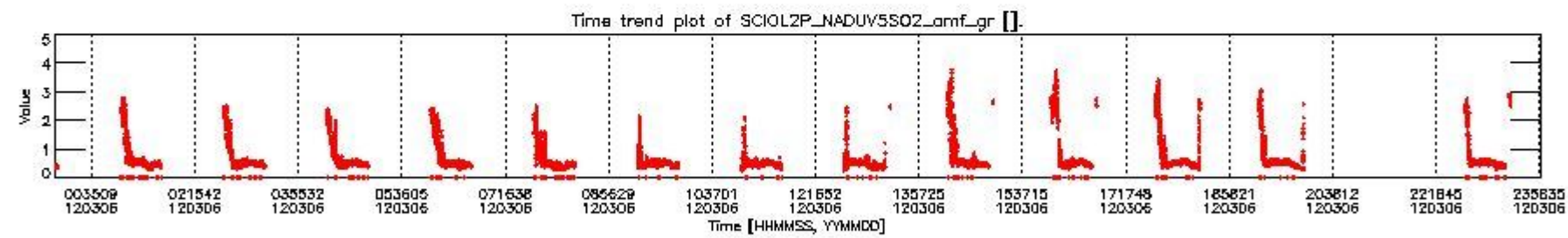
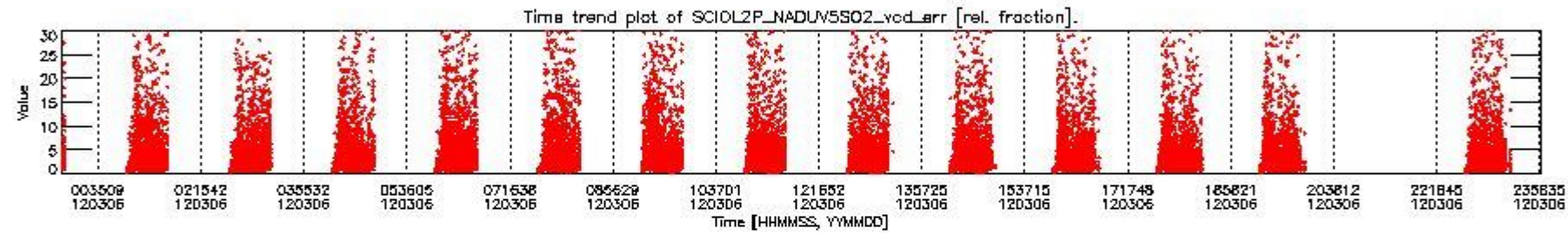
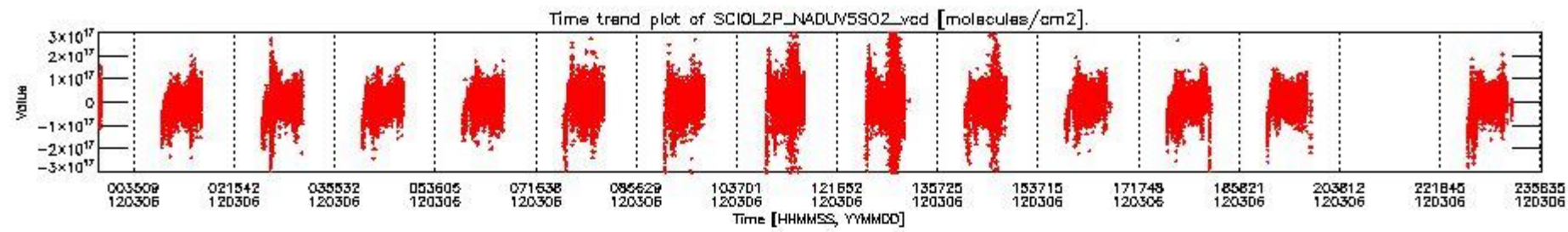
SCIOL2P_NADUV3BRO_amf_gr for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



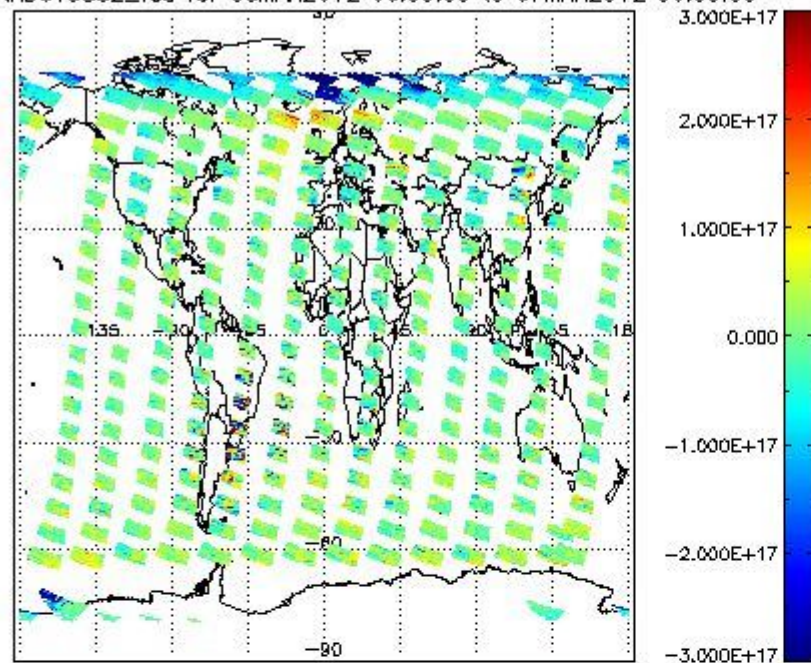
SCIOL2P_NADUV3BRO_amf_cl for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



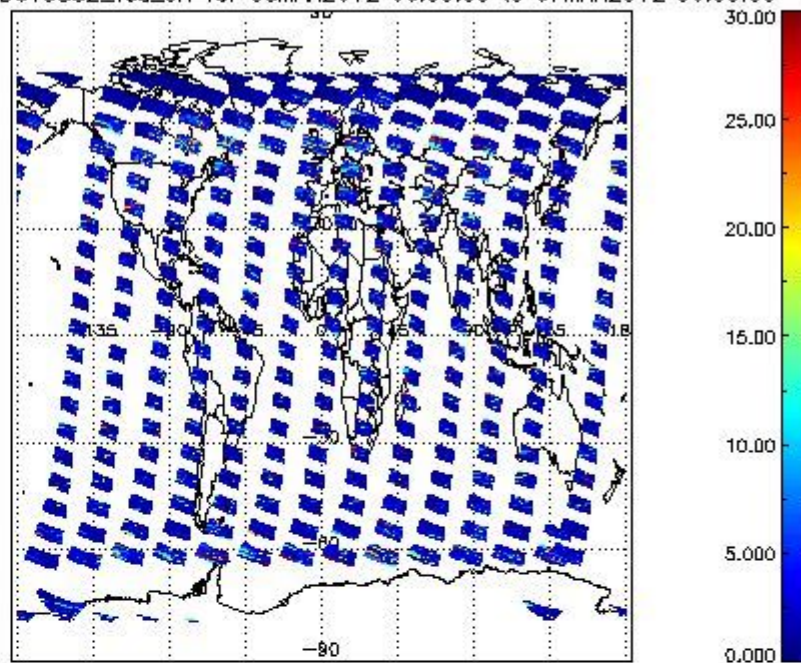
2.2.2.4 SO2 (UV5)



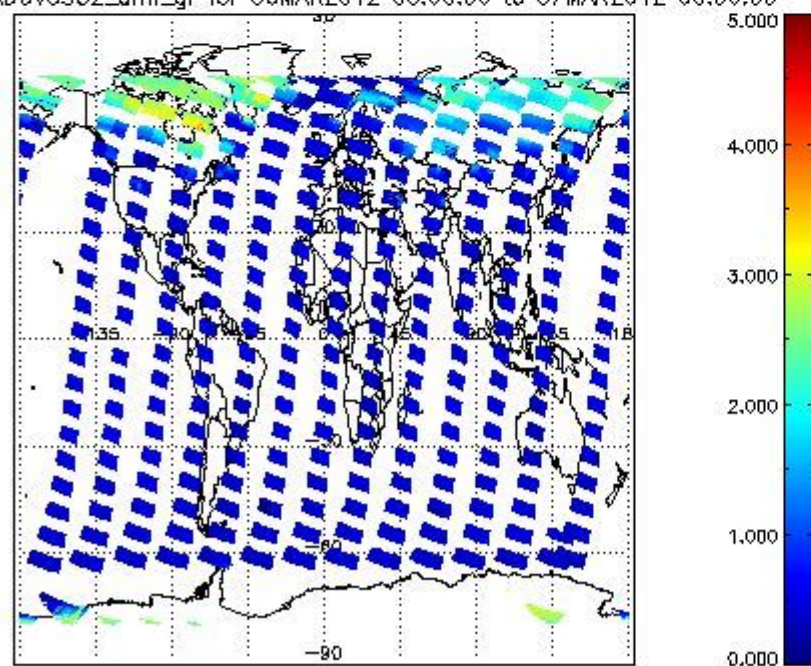
SCIOL2P_NADUV5SO2_vcd for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



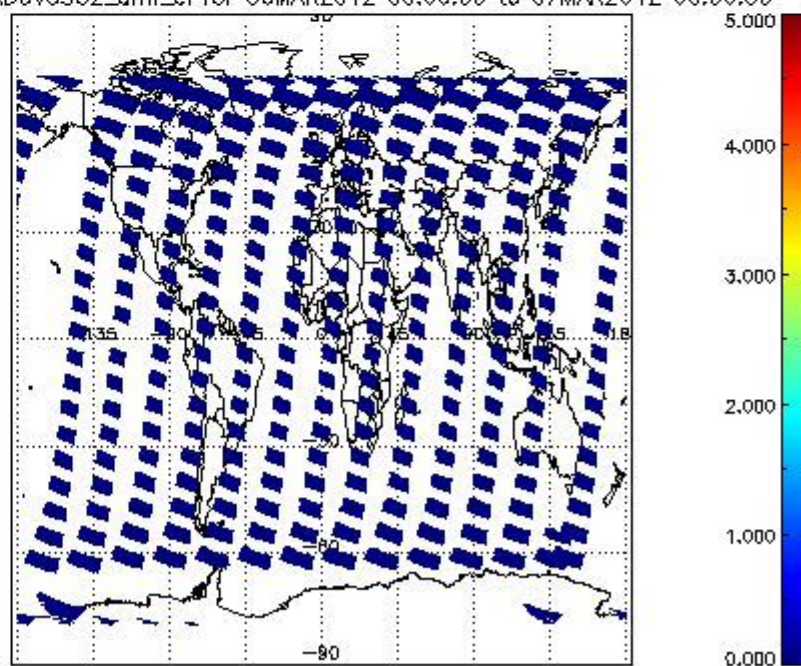
SCIOL2P_NADUV5SO2_vcd_err for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



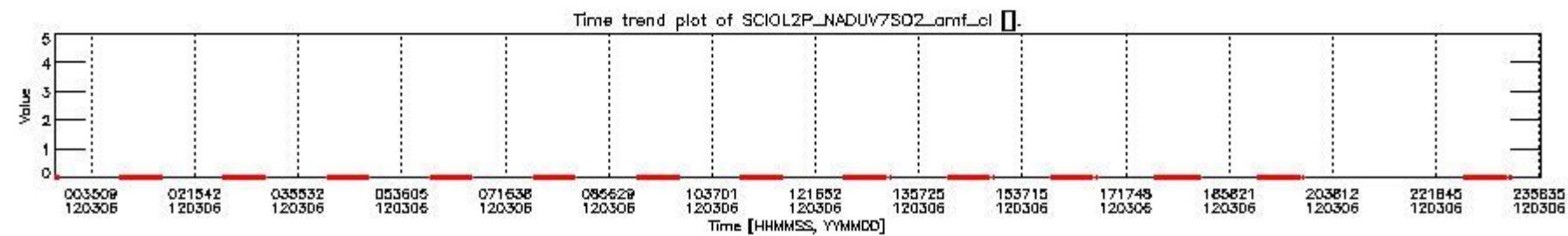
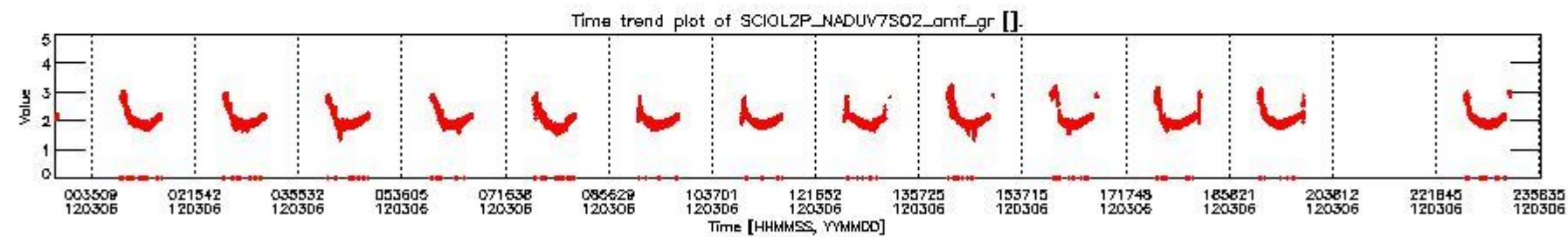
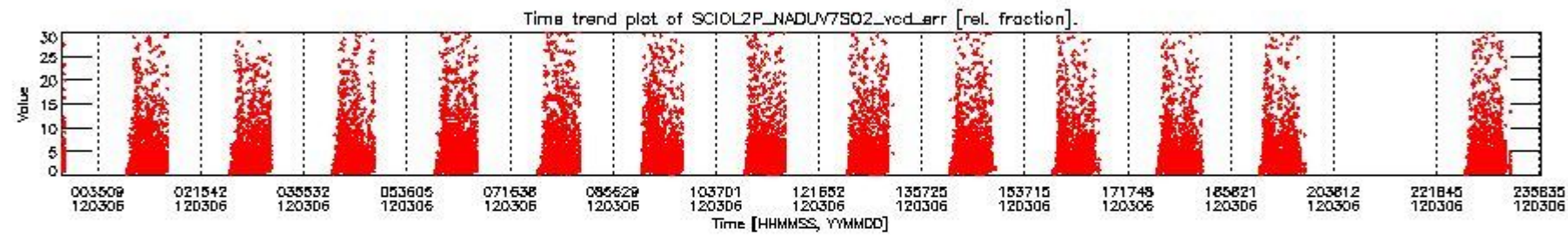
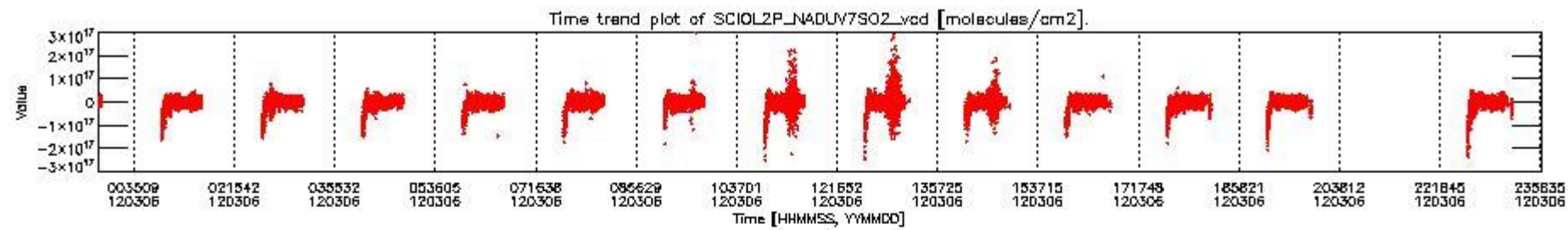
SCIOL2P_NADUV5SO2_amf_gr for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



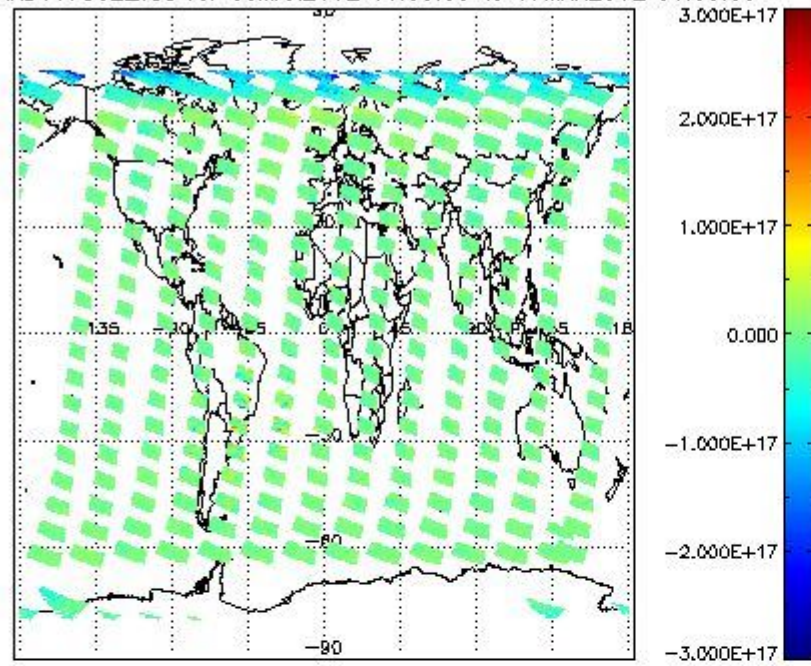
SCIOL2P_NADUV5SO2_amf_cl for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



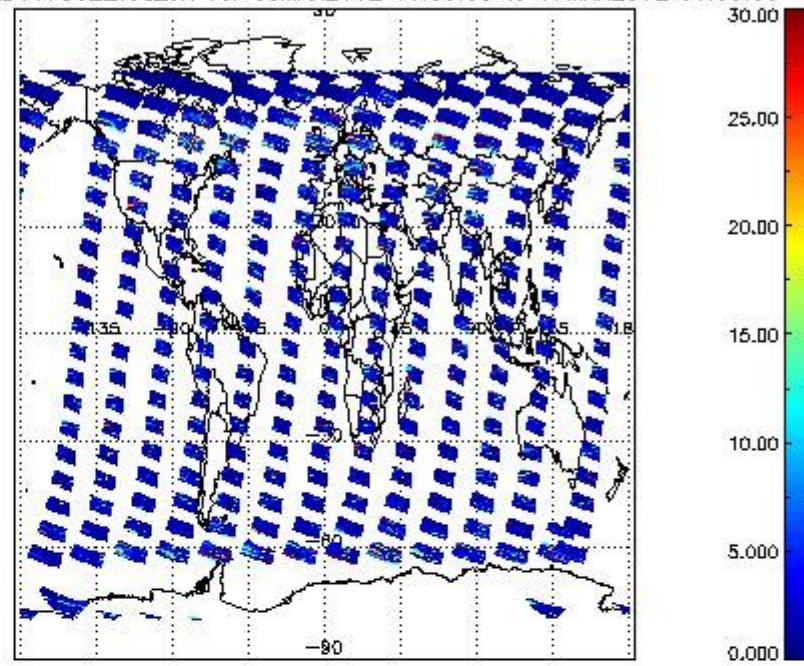
2.2.2.5 SO2 (UV7)



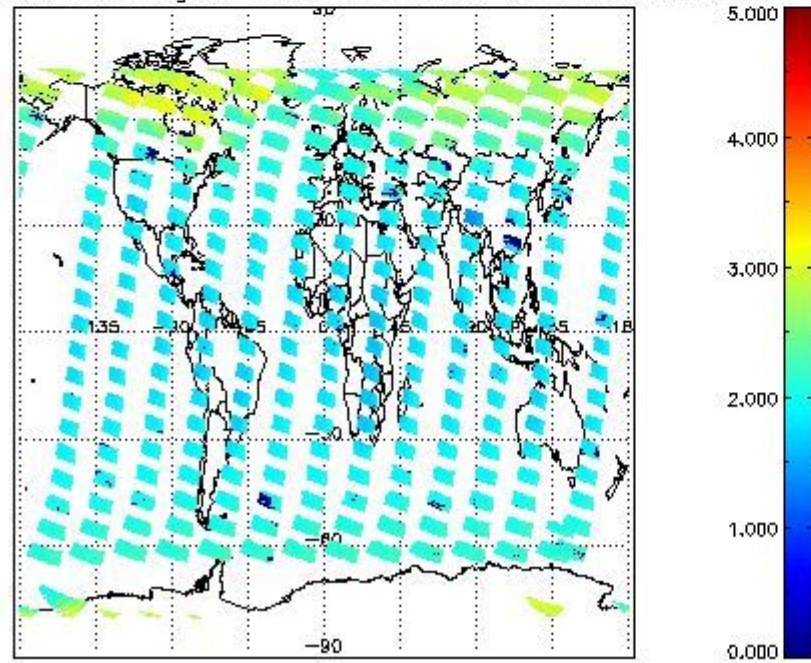
SCIOL2P_NADUV7S02_vcd for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



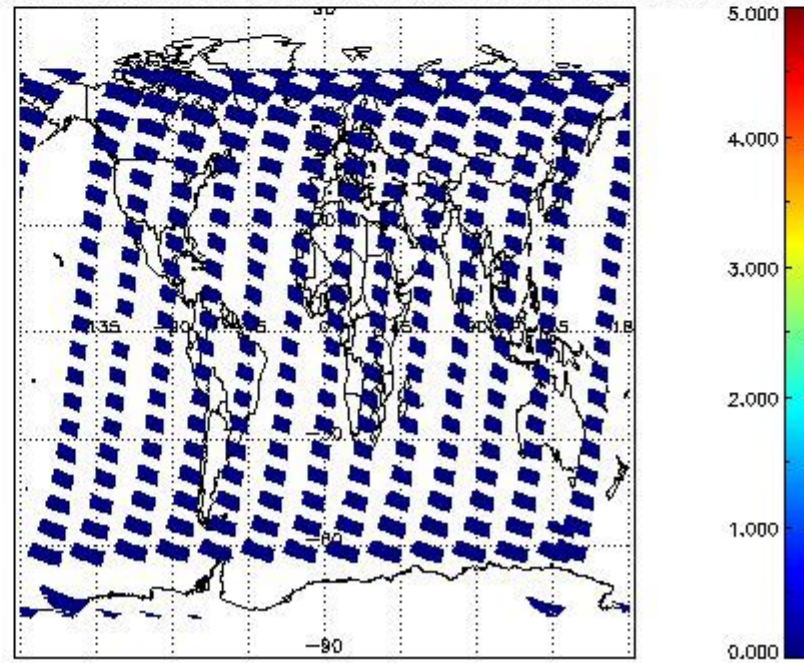
SCIOL2P_NADUV7S02_vcd_err for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



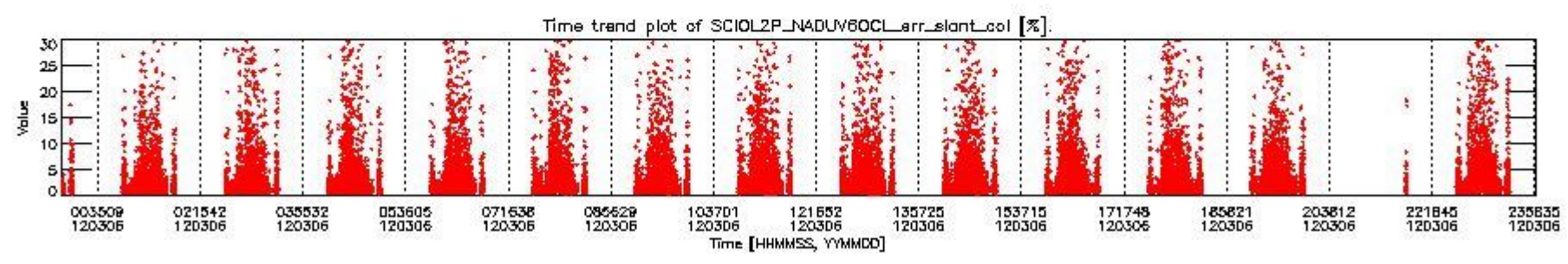
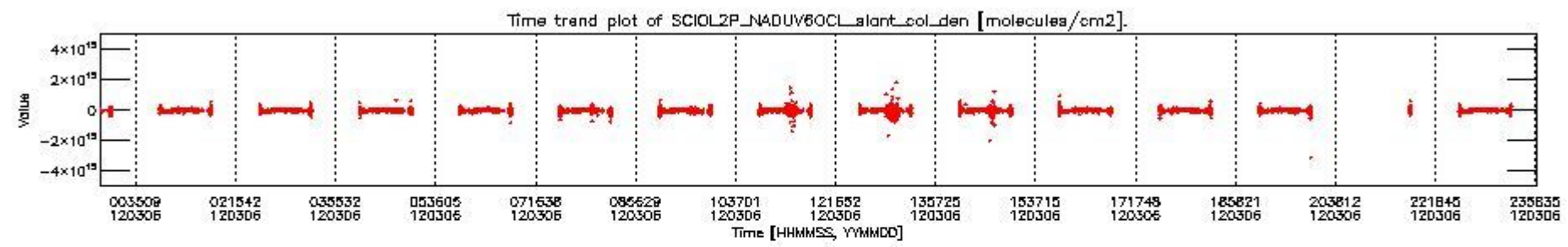
SCIOL2P_NADUV7S02_amf_gr for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



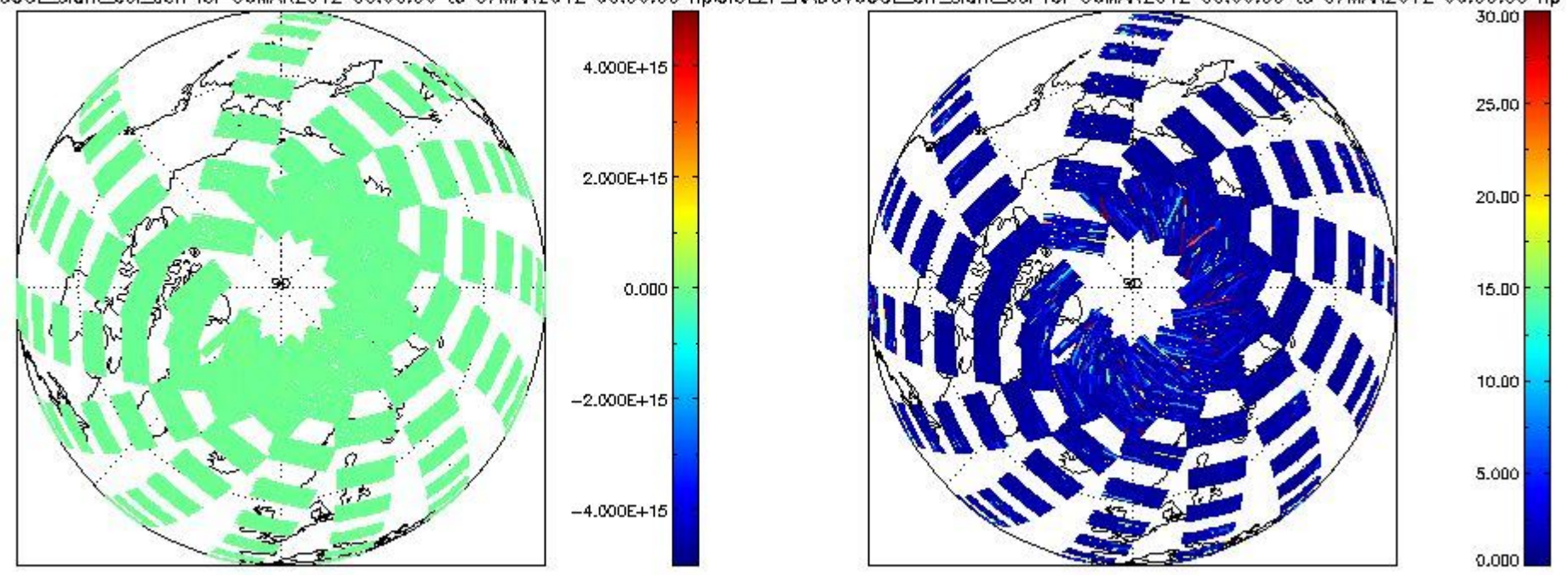
SCIOL2P_NADUV7S02_amf_cl for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



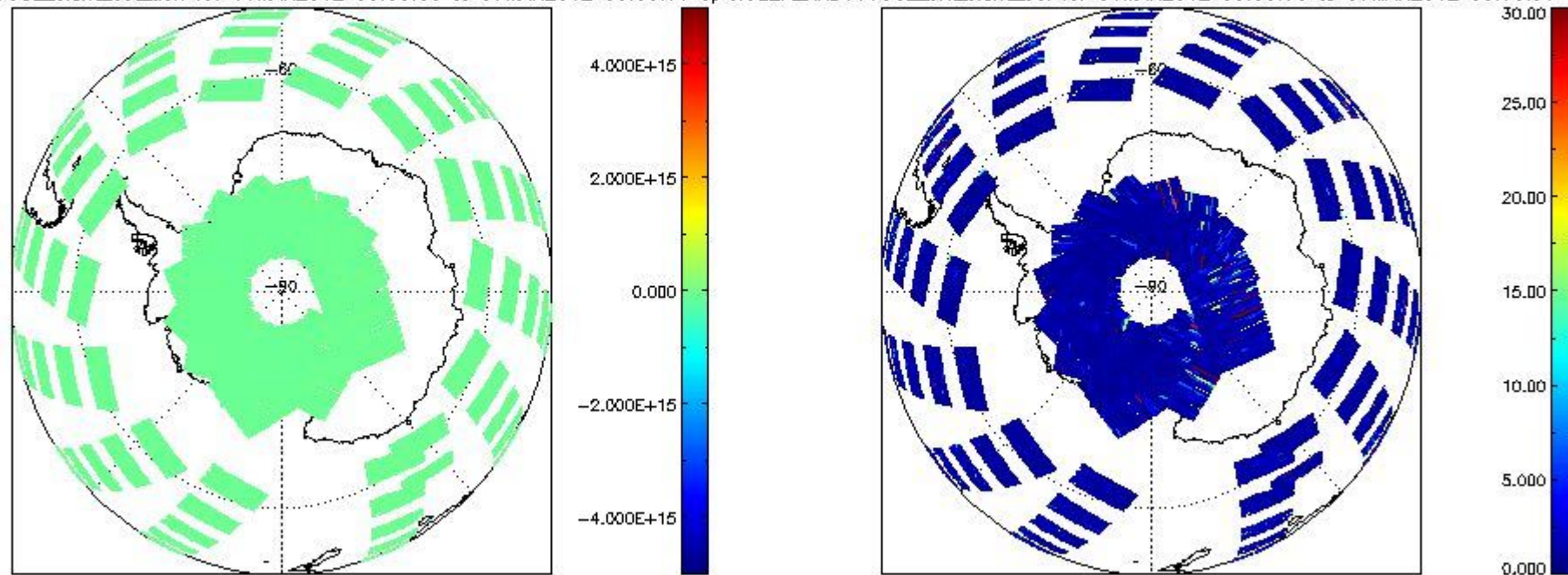
2.2.2.6 OCIO (UV6)



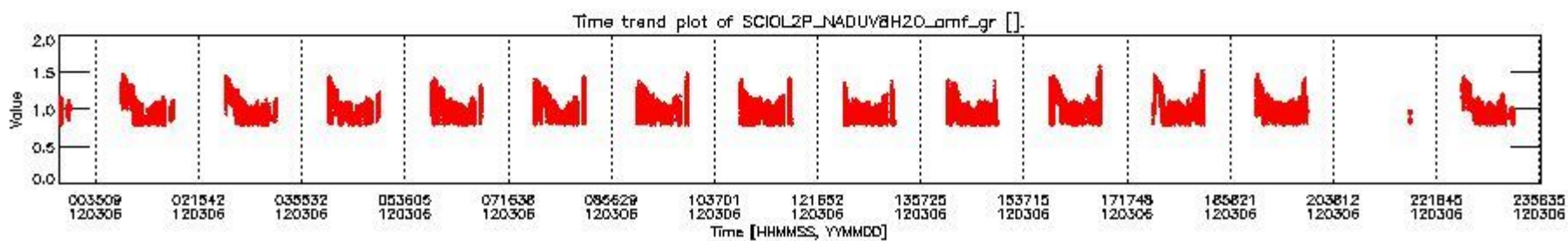
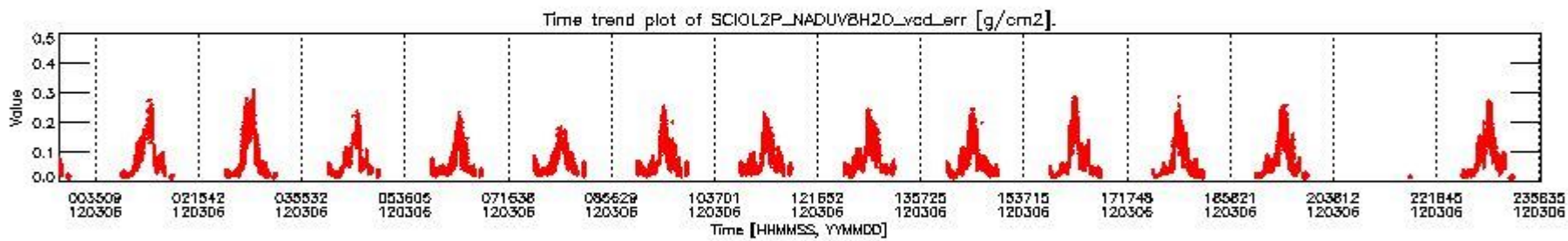
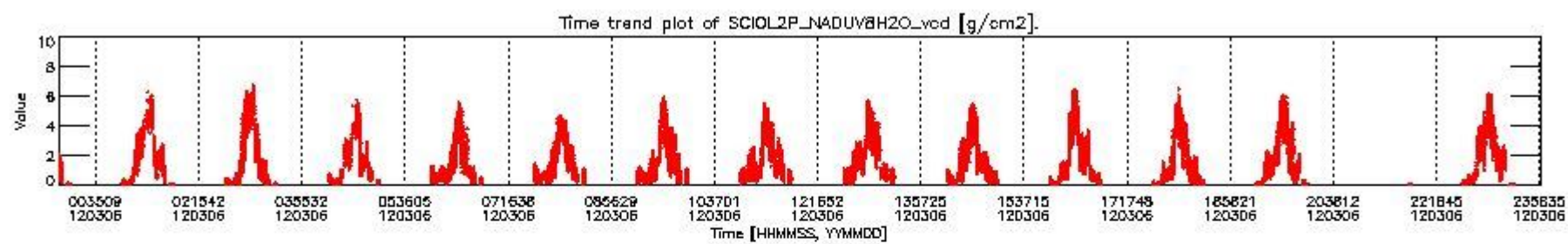
CIOL2P_NADUV6OCLslant_col_den for 06MAR2012 00:00:00 to 07MAR2012 00:00:00 npCIOL2P_NADUV6OCLerr_slant_col for 06MAR2012 00:00:00 to 07MAR2012 00:00:00 np



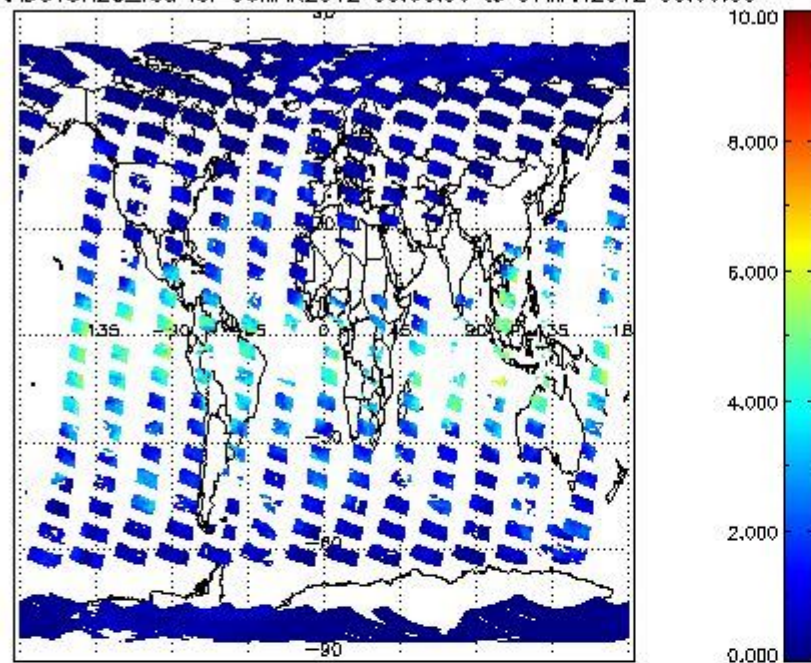
CIOL2P_NADUV6OCL_slant_coLden for 06MAR2012 00:00:00 to 07MAR2012 00:00:00 spCIOL2P_NADUV6OCL_err_slant_col for 06MAR2012 00:00:00 to 07MAR2012 00:00:00 sp



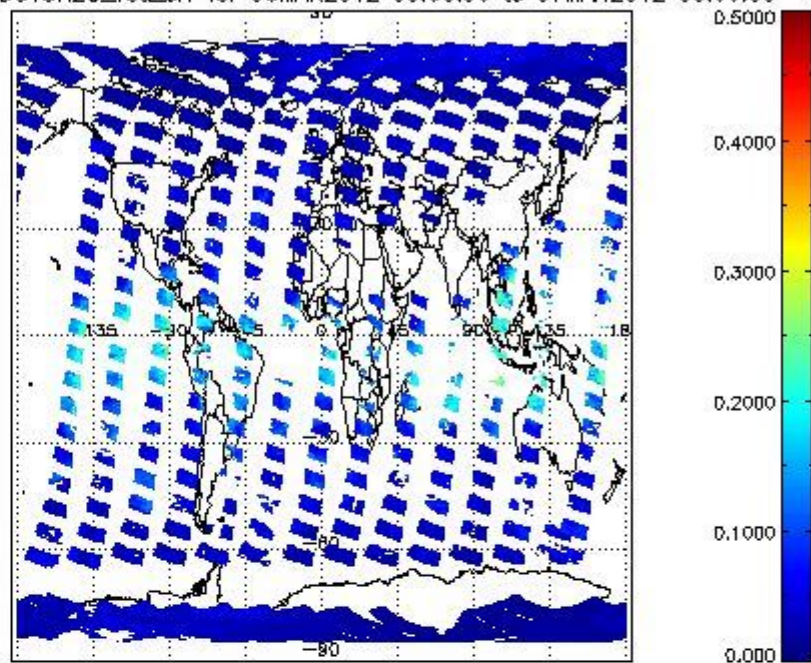
2.2.2.7 H₂O (UV8)



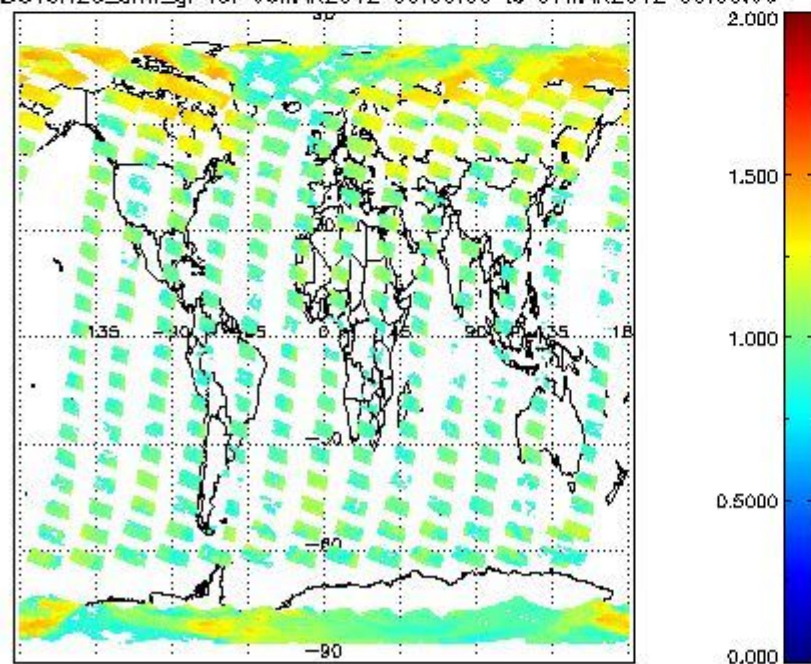
SCIOL2P_NADUV8H2O_vcd for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



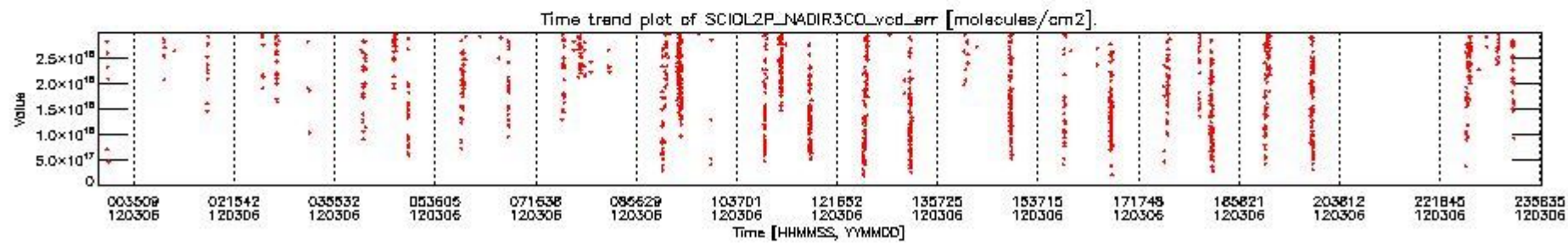
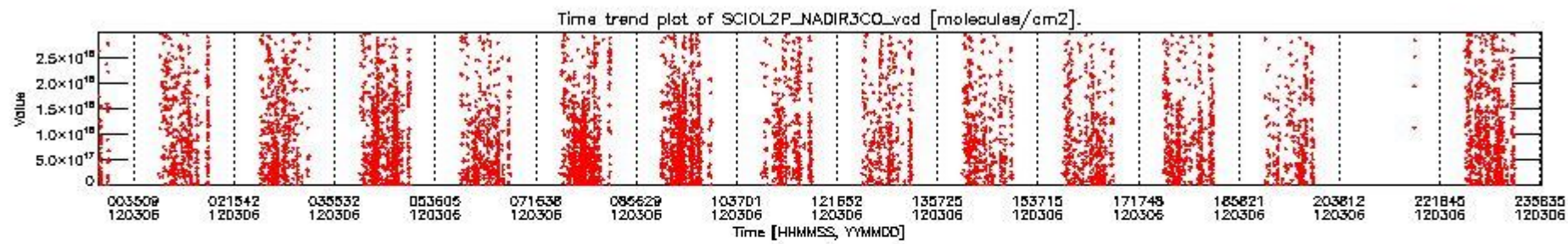
SCIOL2P_NADUV8H2O_vcd_err for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



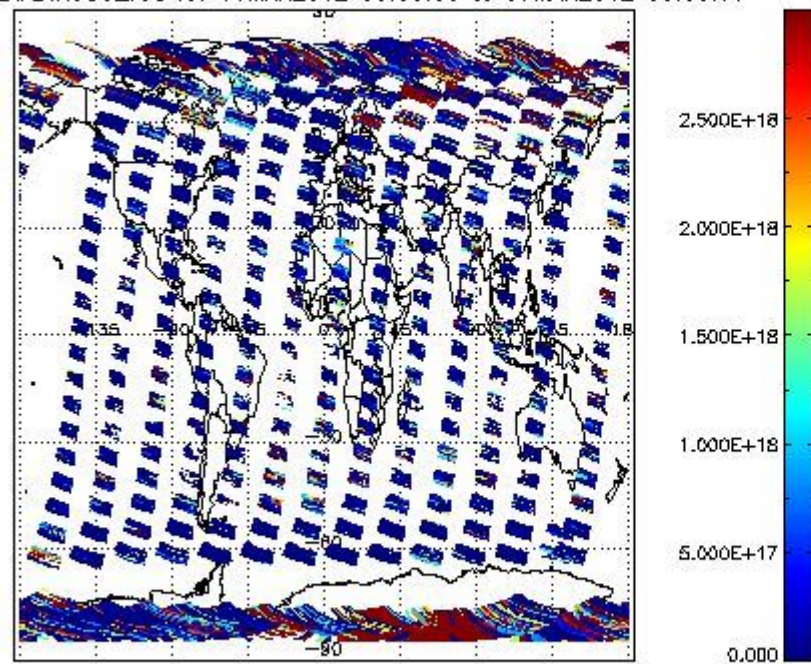
SCIOL2P_NADUV8H2O_arnf_gr for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



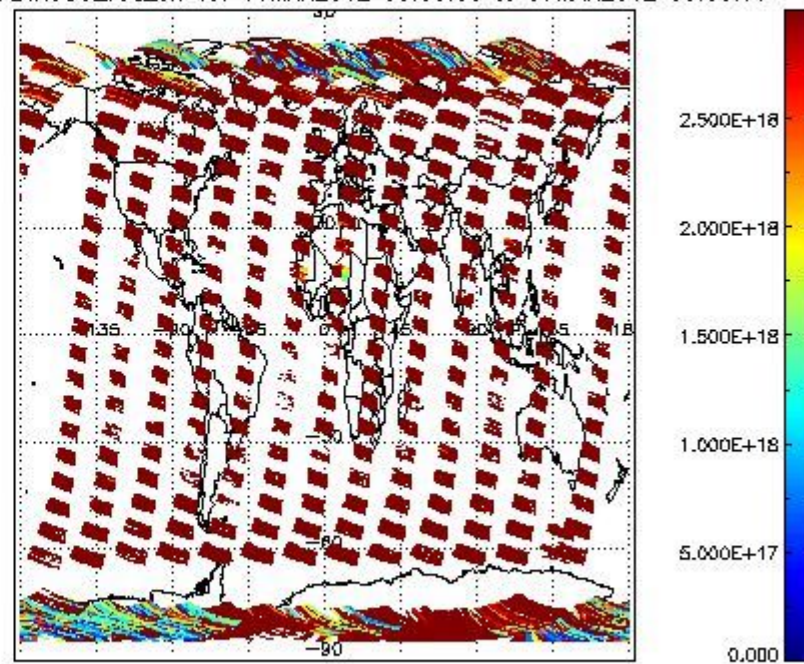
2.2.2.8 CO (IR3)



SCIO2P_NADIR3CO_vcd for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



SCIO2P_NADIR3CO_vcd_err for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



2.2.3 Limb

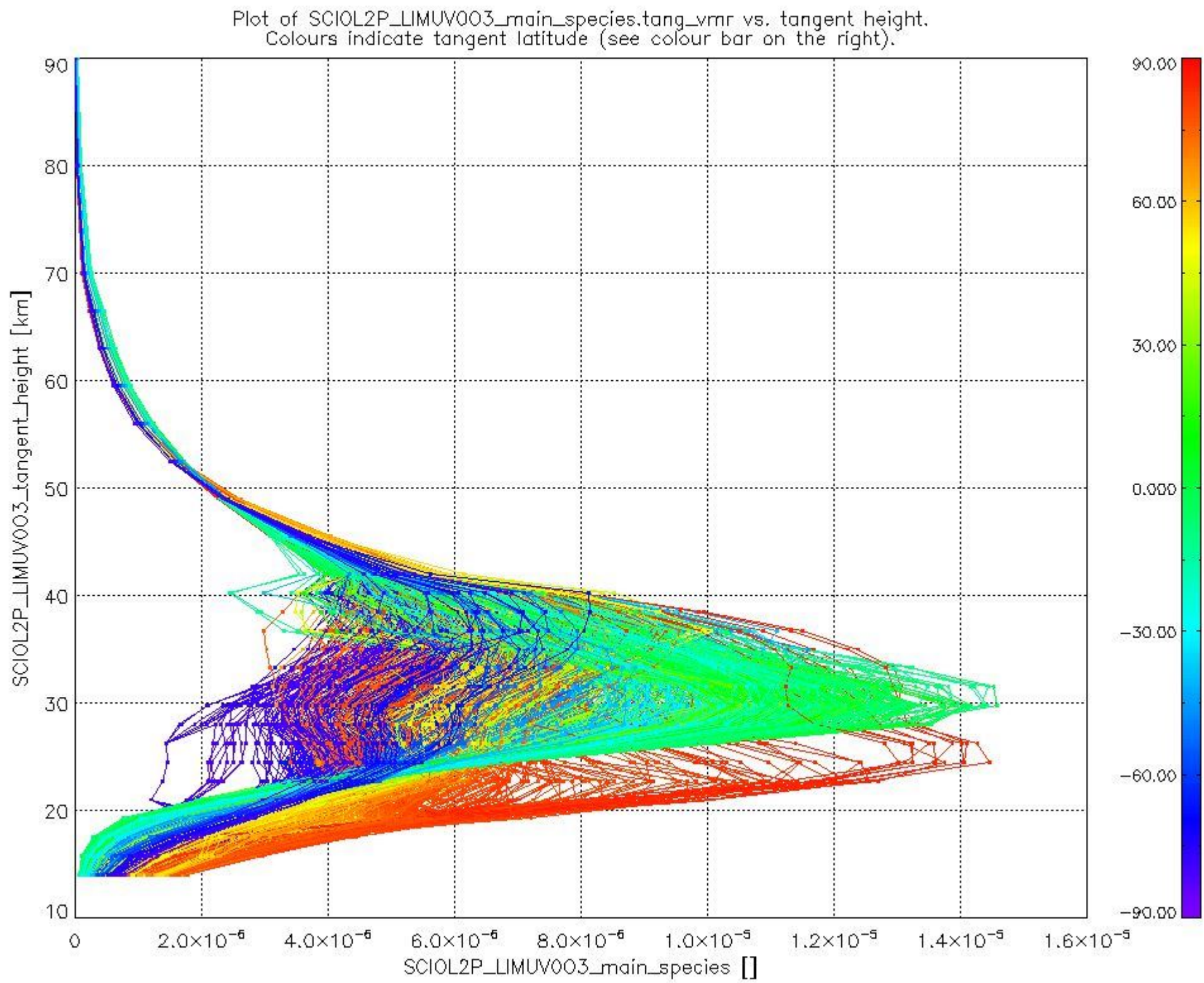
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

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

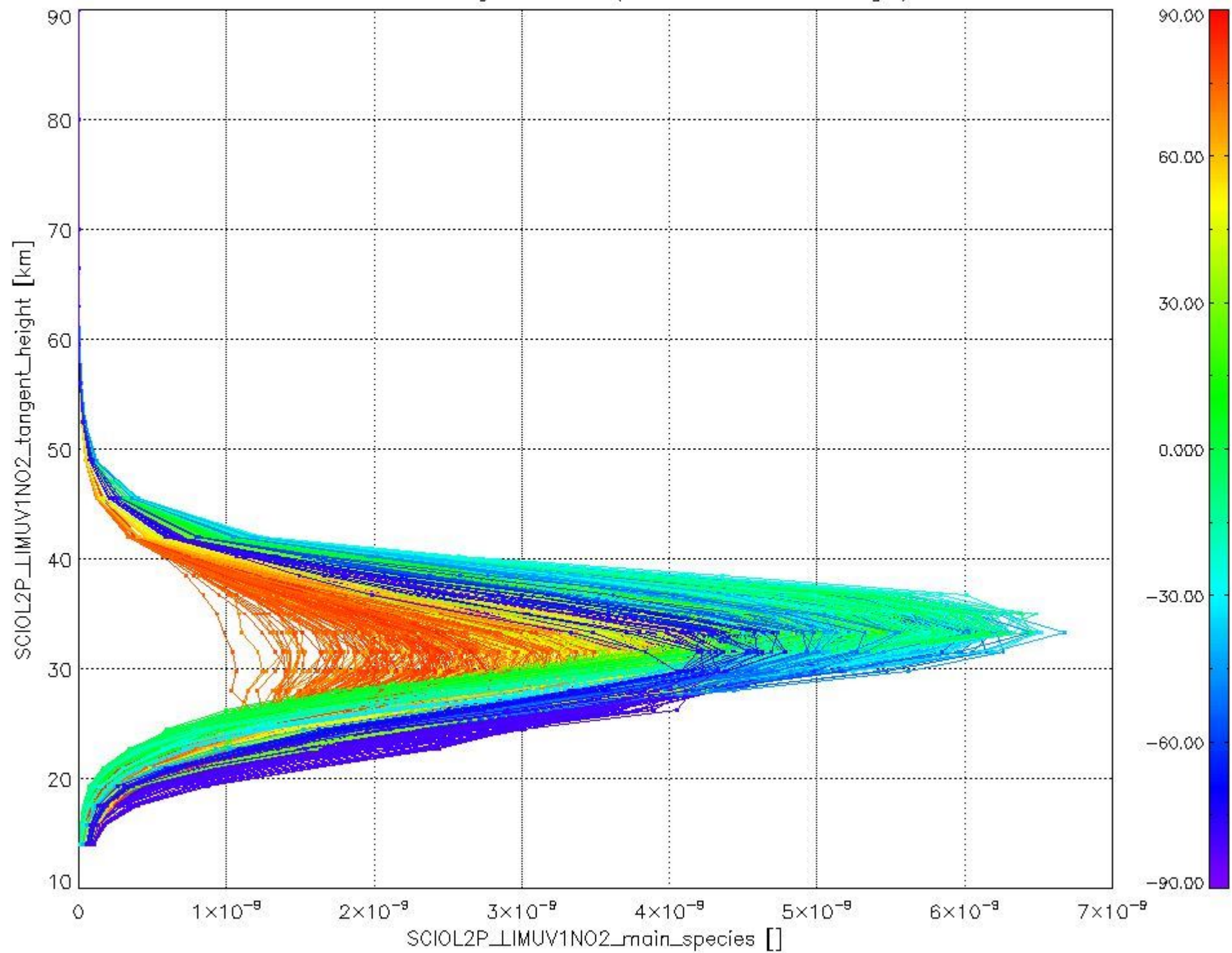
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



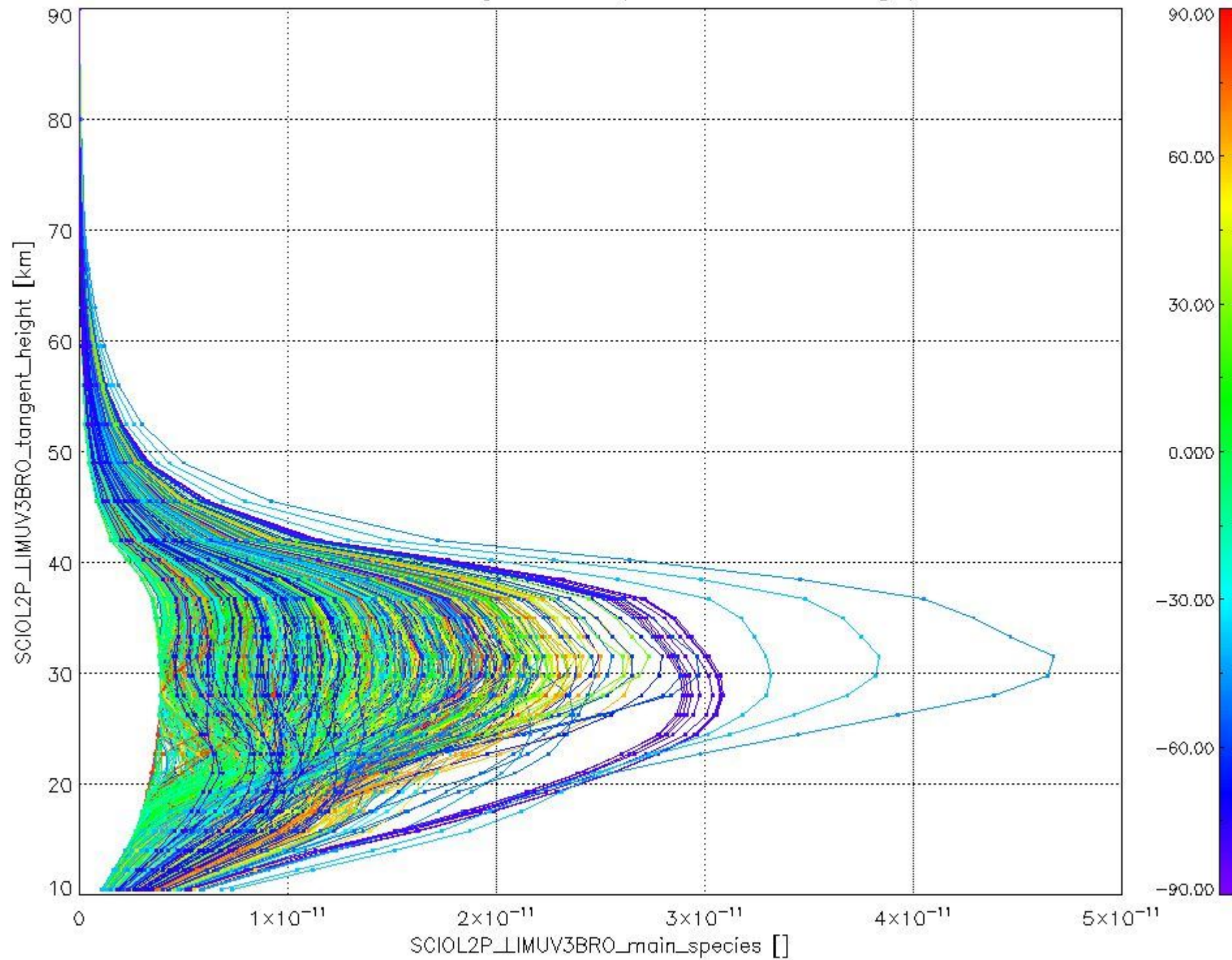
2.2.3.2 NO2 (UV1)

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)

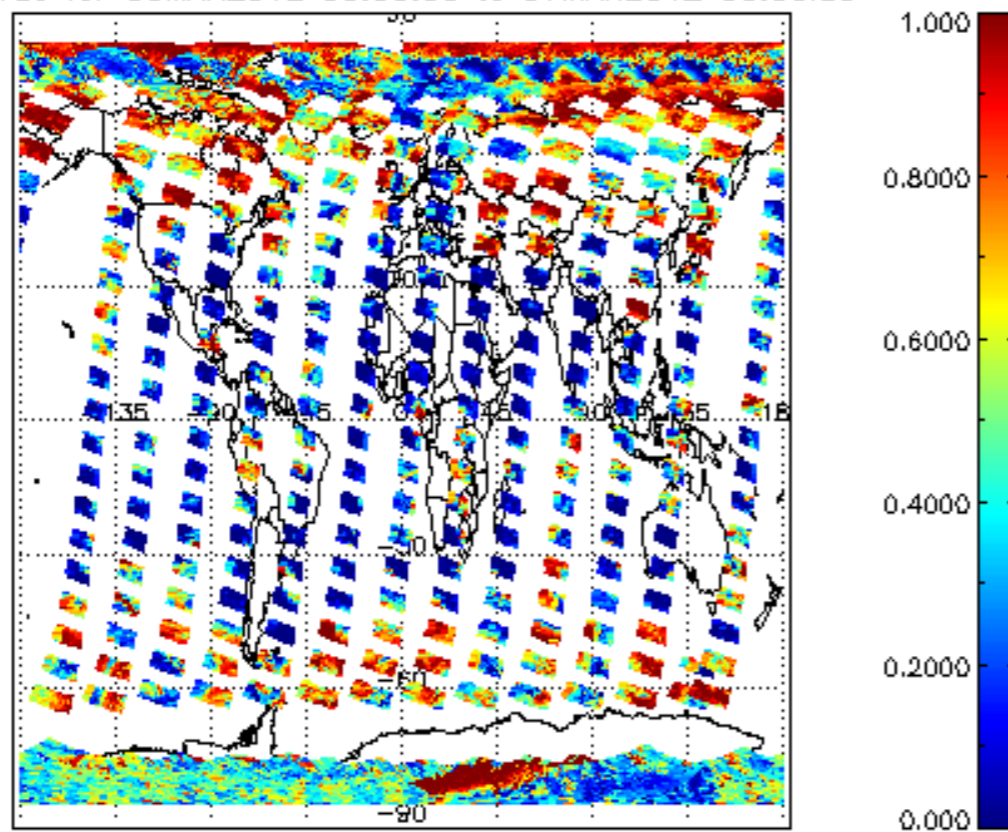
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



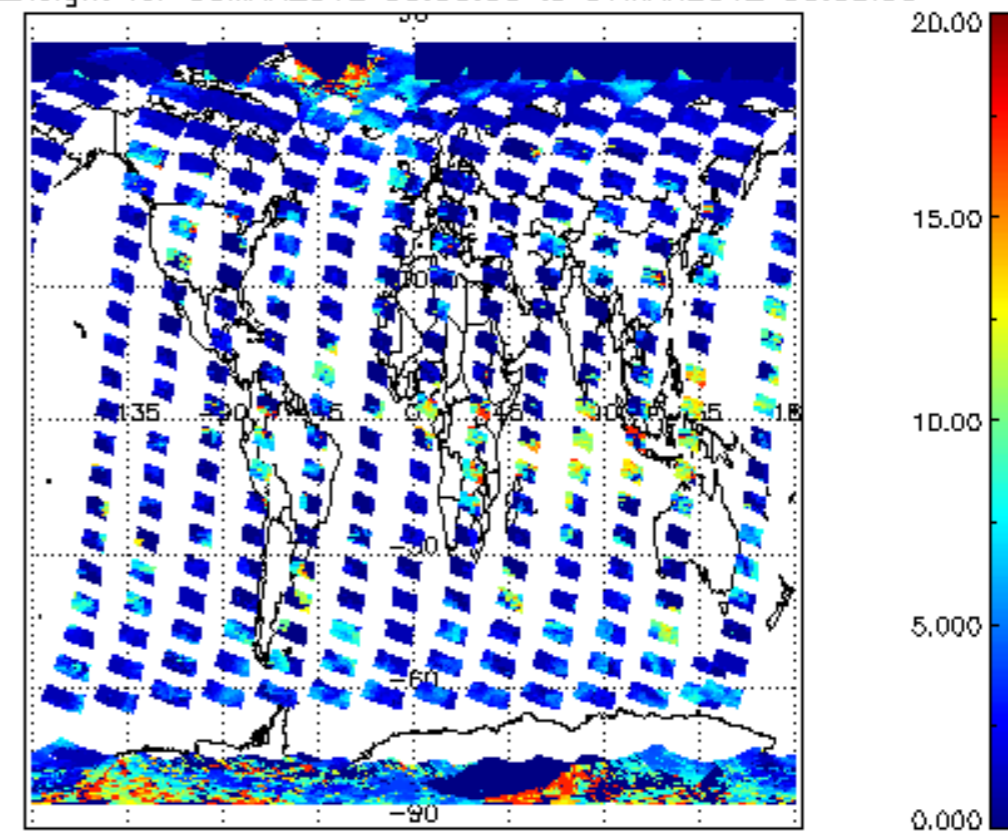
2.3 ADF monitoring

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_AXVIEC20120306_134921_20120305_191622_20120307_191622
3	SCI_MF1_AXVIEC20120306_135027_20120306_183937_20120308_183937

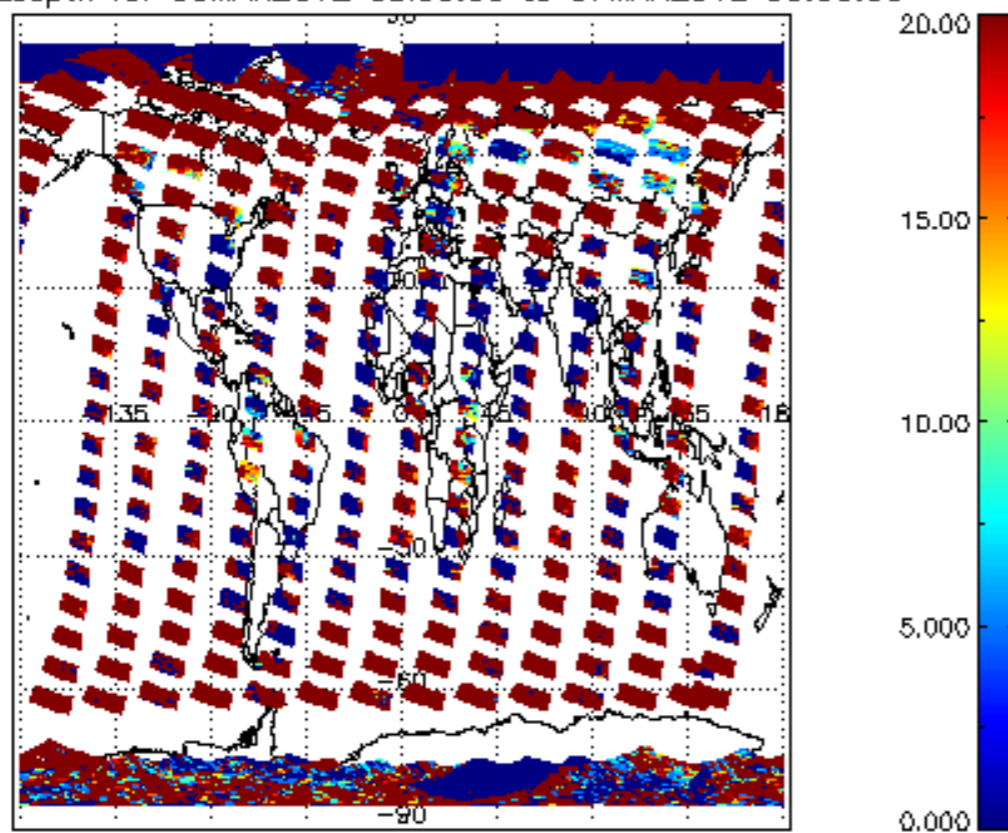
cL_frac for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



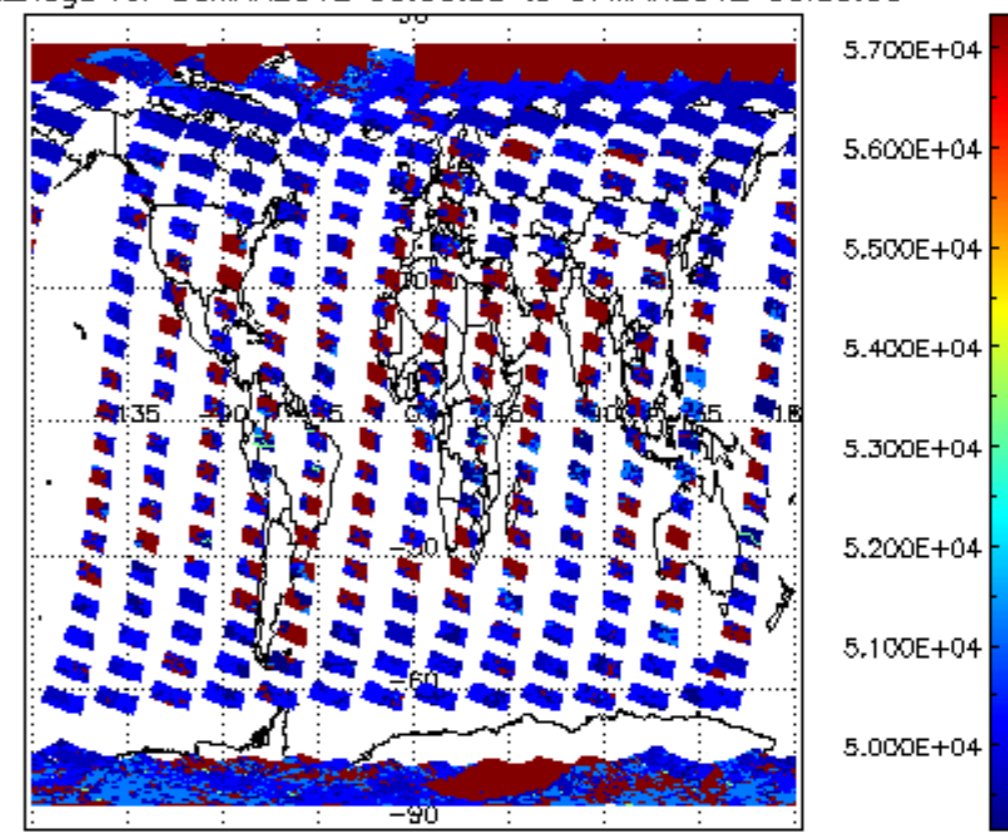
cL_top_height for 06MAR2012 00:00:00 to 07MAR2012 00:00:00

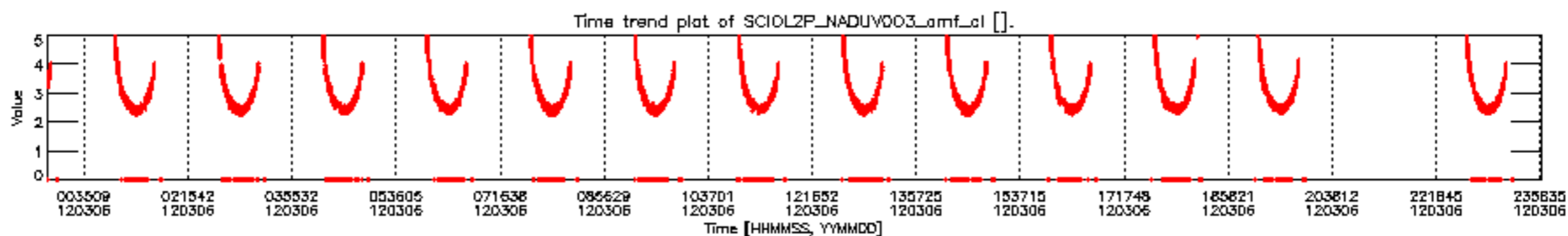
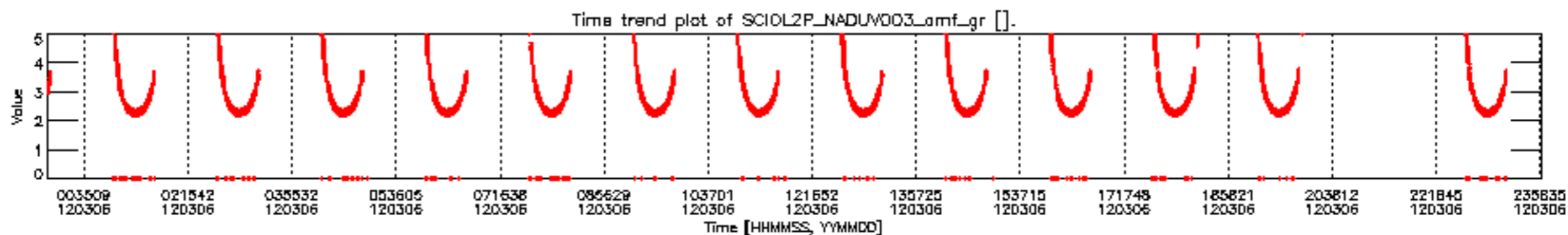
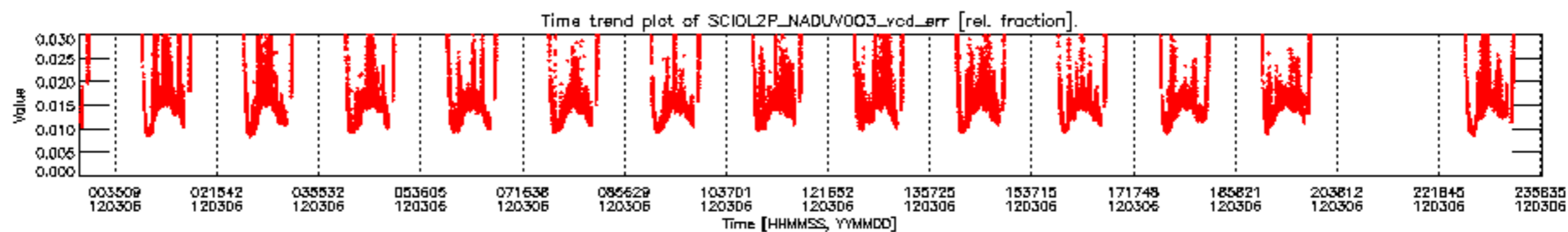
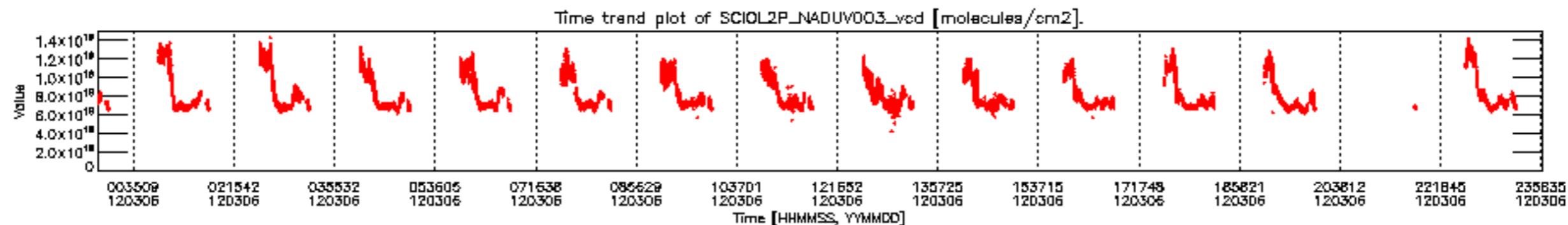


cL_opt_depth for 06MAR2012 00:00:00 to 07MAR2012 00:00:00

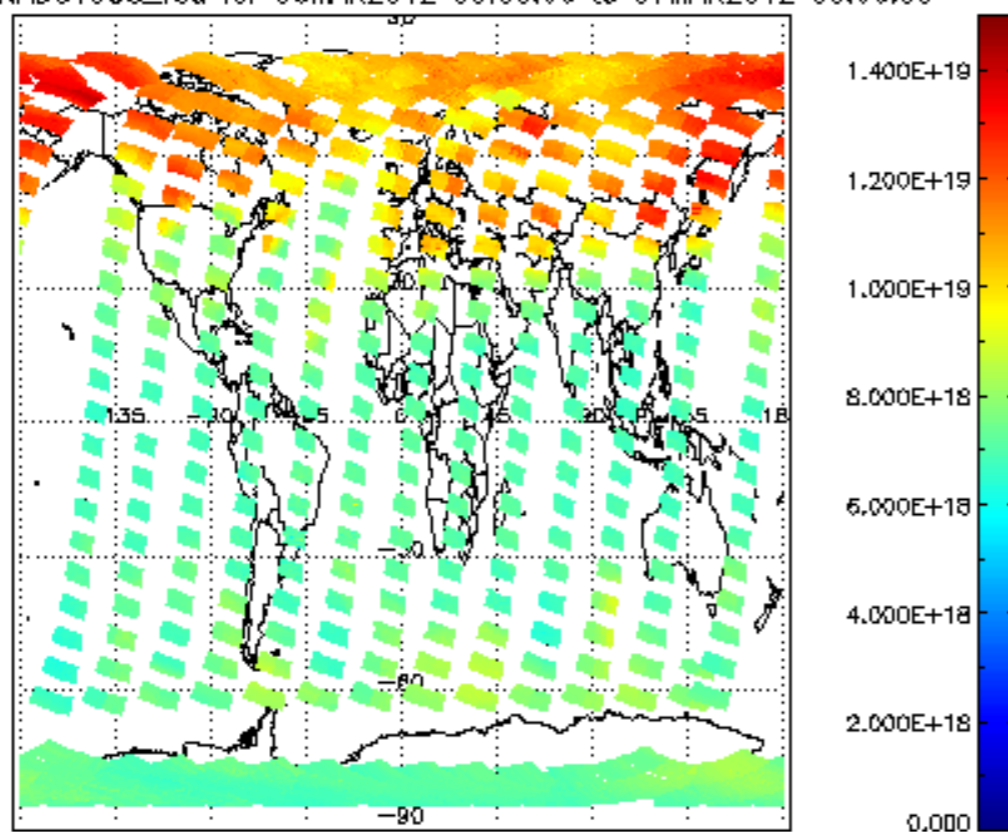


cloud_flags for 06MAR2012 00:00:00 to 07MAR2012 00:00:00

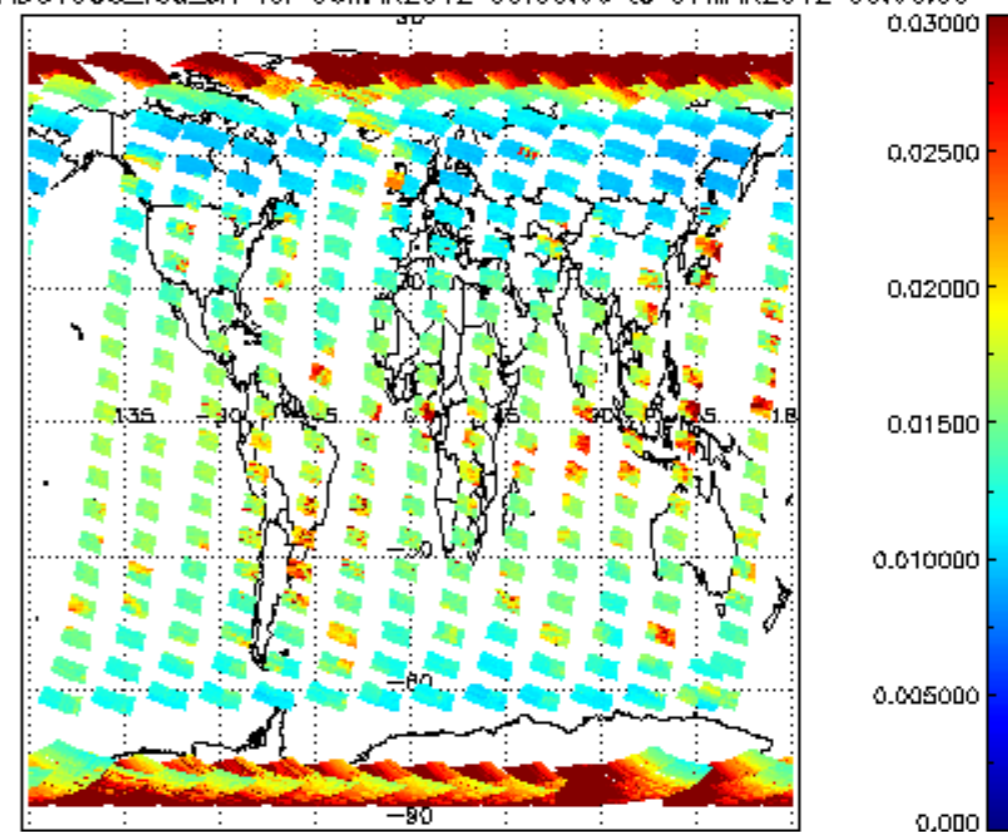




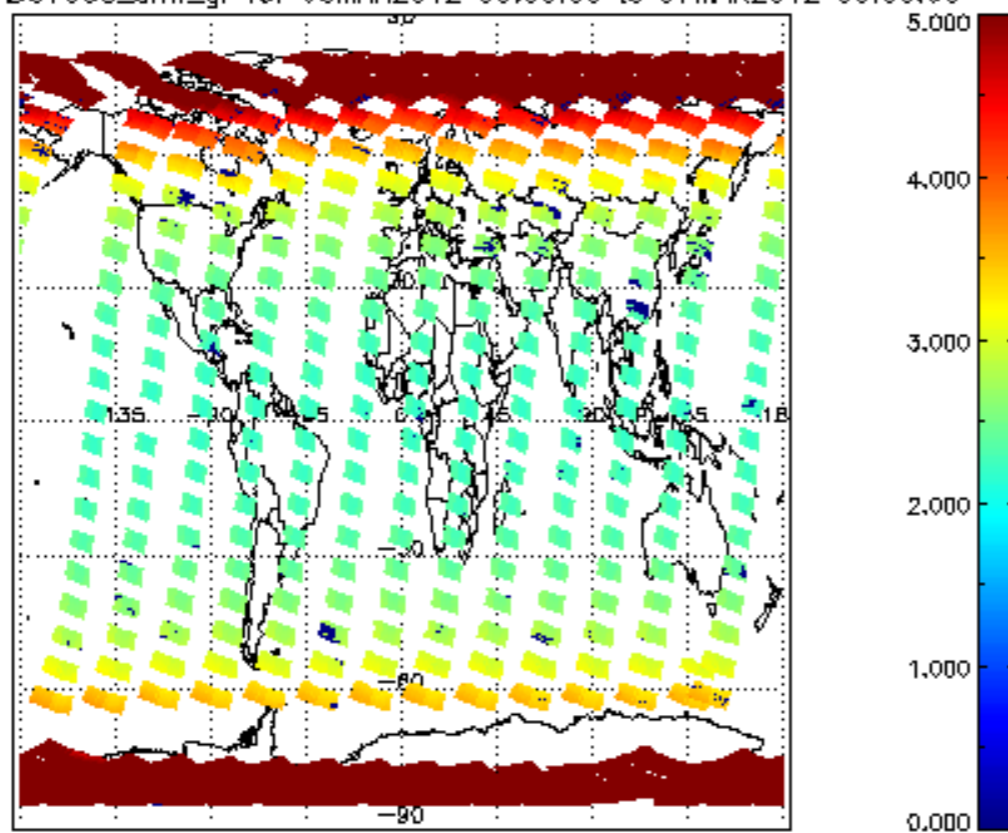
SCIOL2P_NADUV003_vcd for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



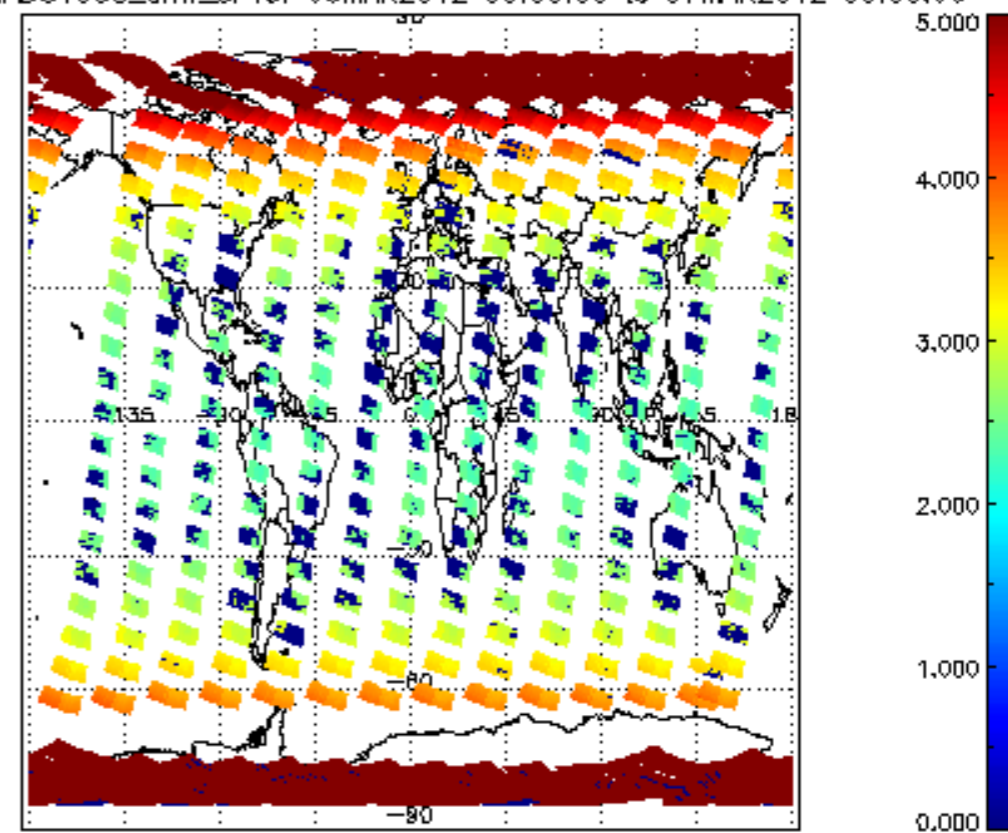
SCIOL2P_NADUV003_vcd_err for 06MAR2012 00:00:00 to 07MAR2012 00:00:00

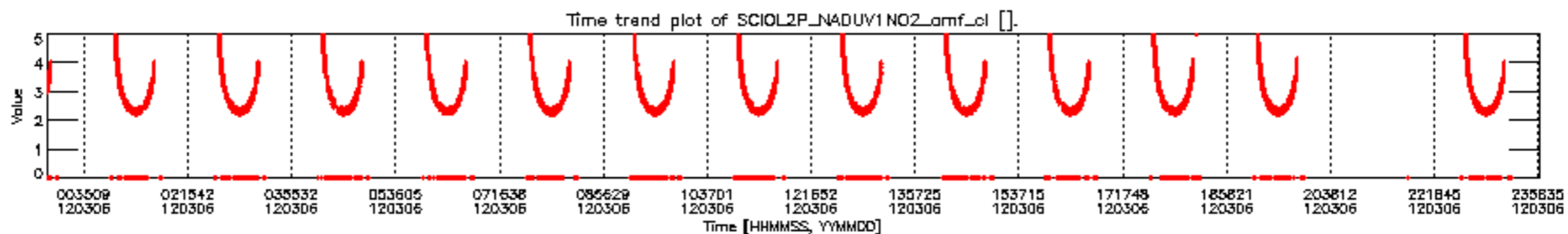
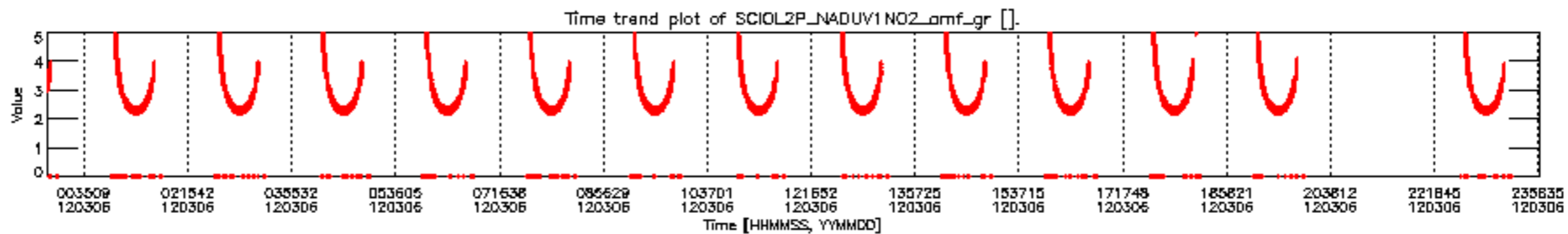
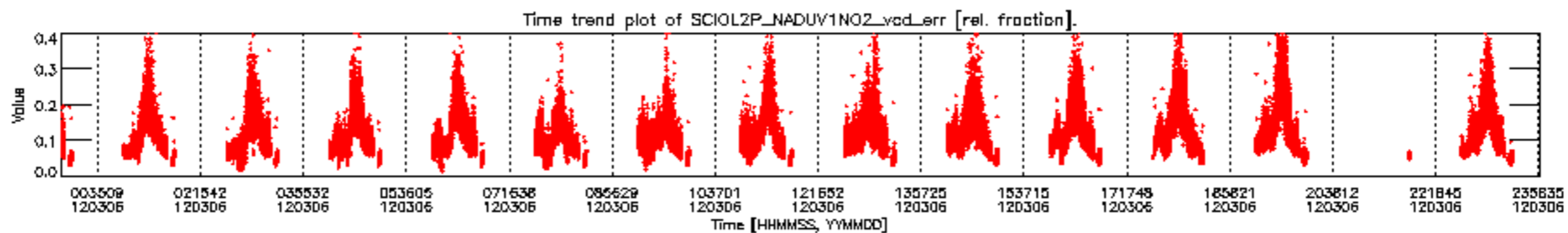
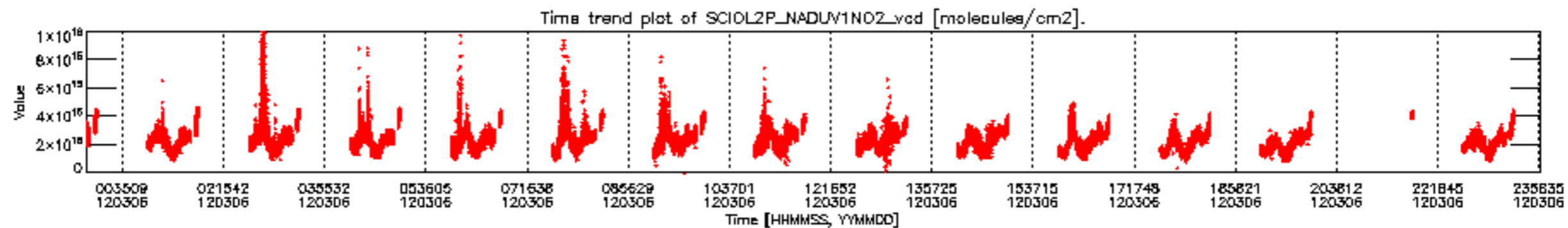


SCIOL2P_NADUV003_arnf_gr for 06MAR2012 00:00:00 to 07MAR2012 00:00:00

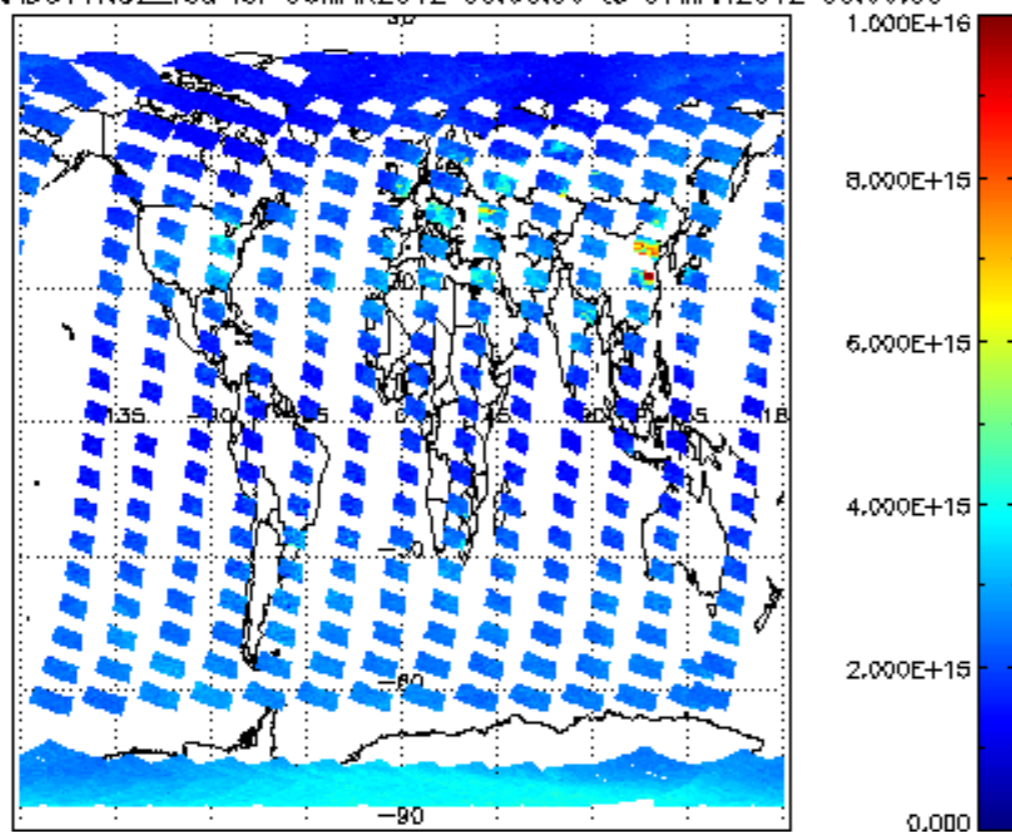


SCIOL2P_NADUV003_arnf_cl for 06MAR2012 00:00:00 to 07MAR2012 00:00:00

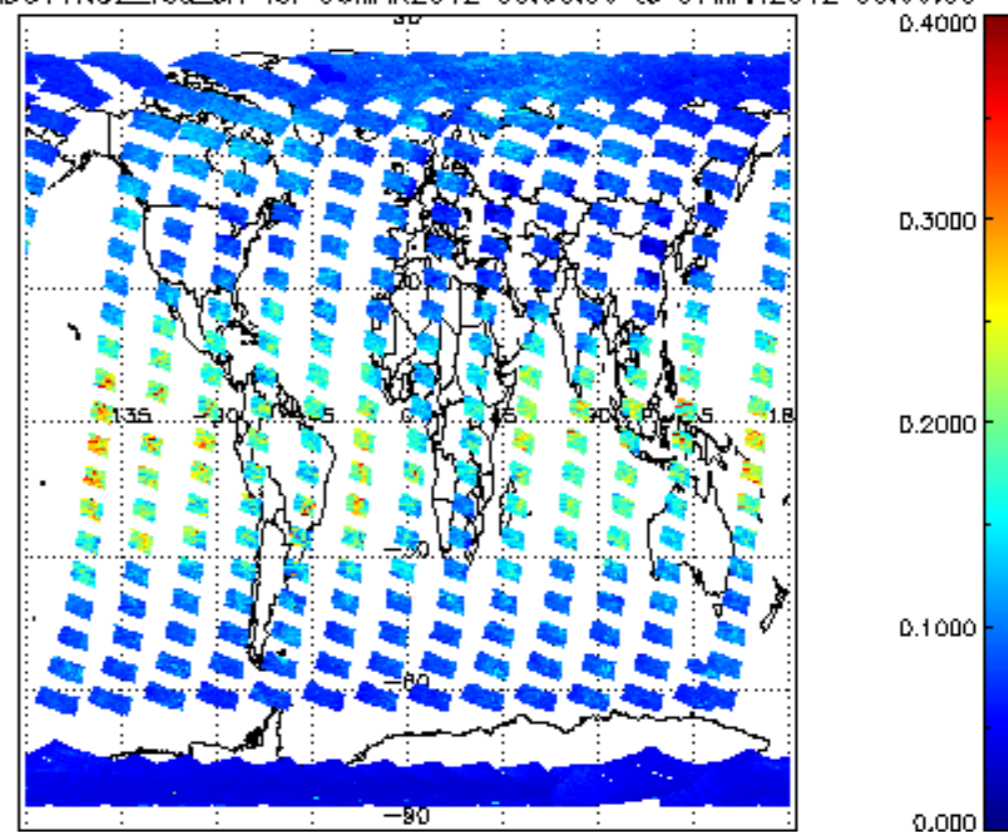




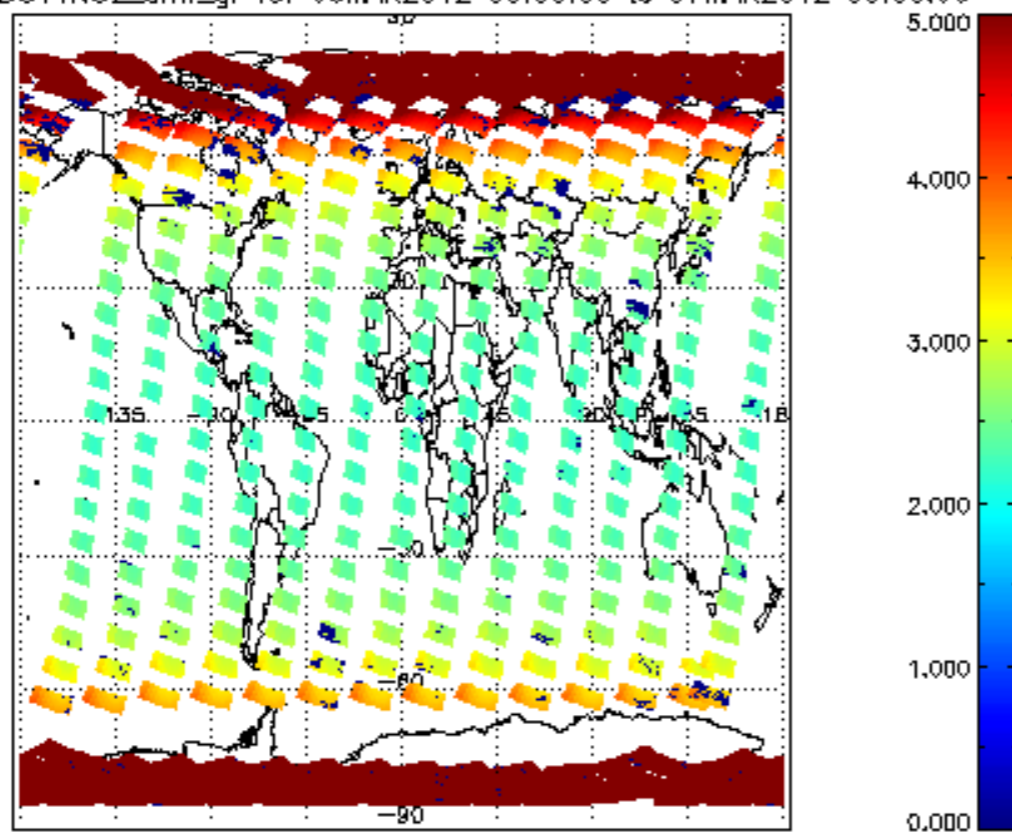
SCIOL2P_NADUV1NO2_vcd for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



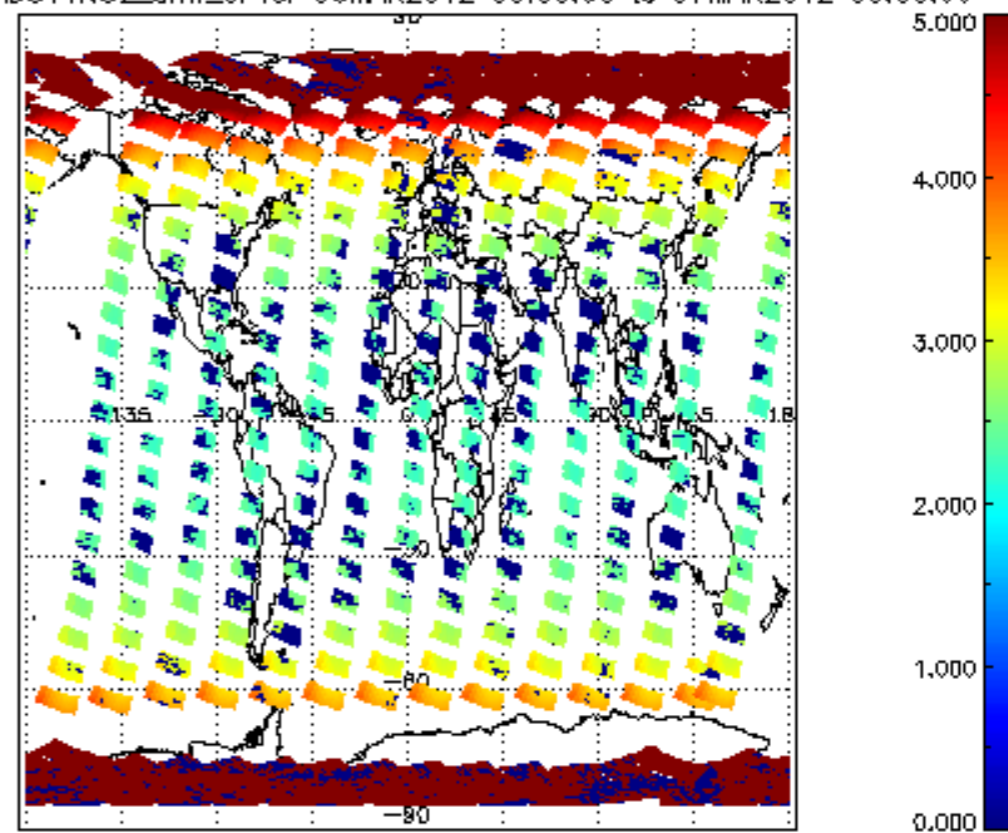
SCIOL2P_NADUV1NO2_vcd_err for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



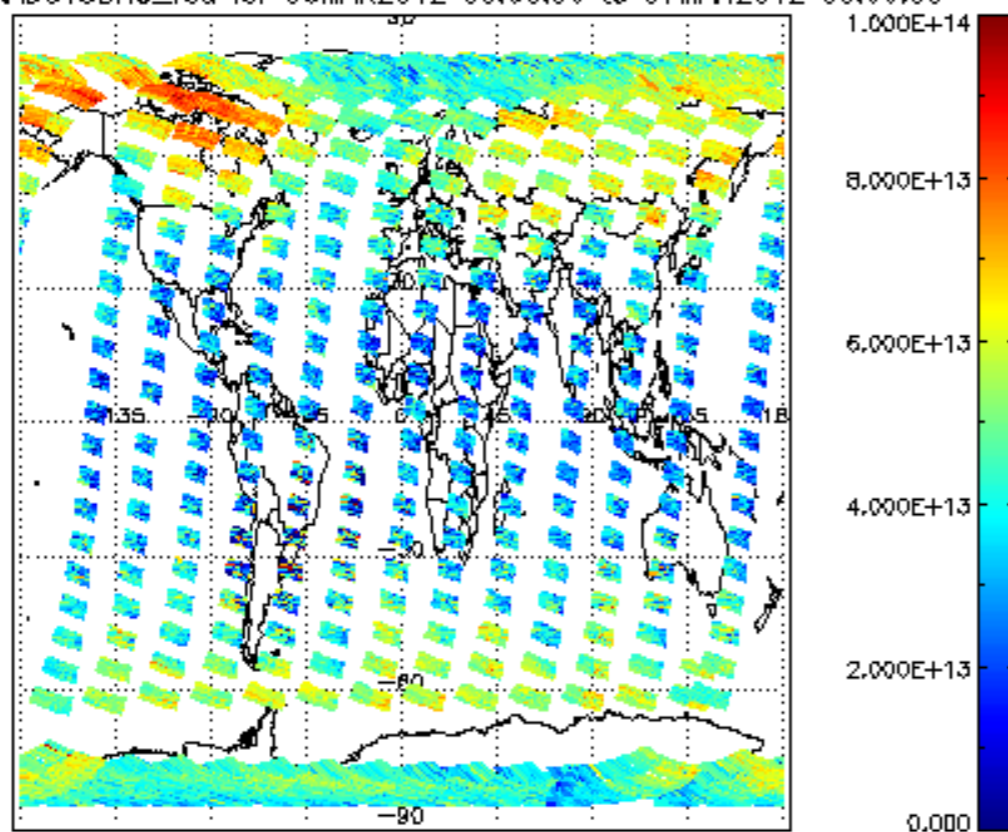
SCIOL2P_NADUV1NO2_amf_gr for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



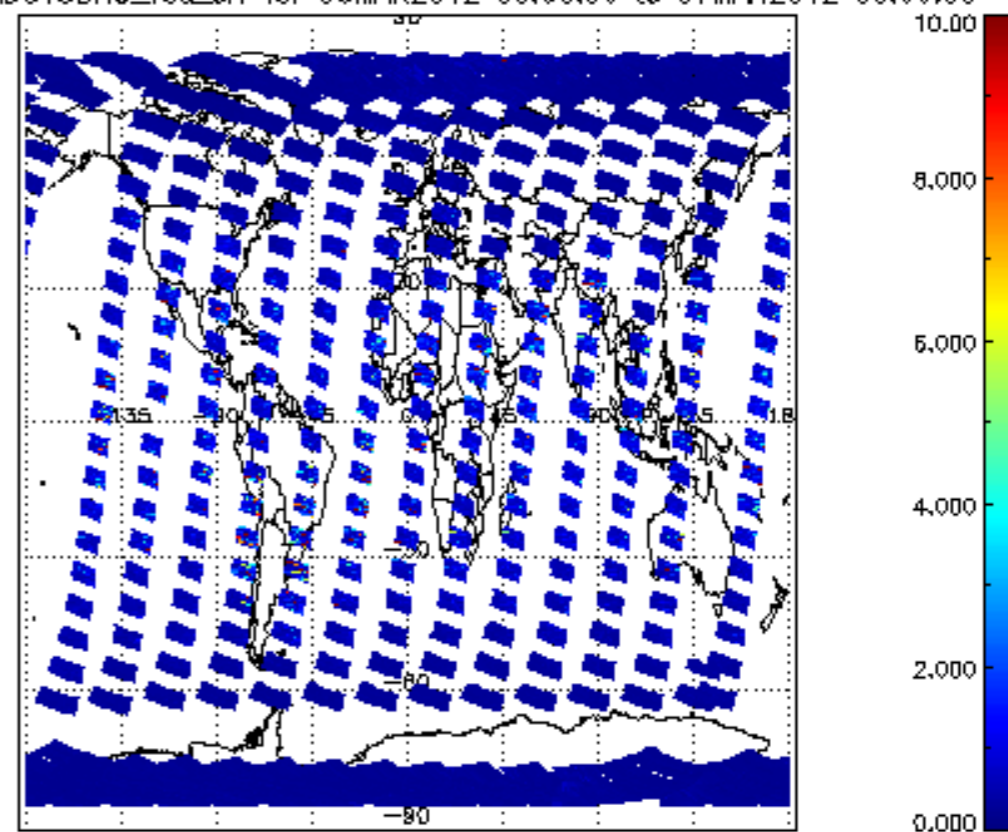
SCIOL2P_NADUV1NO2_amf_cl for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



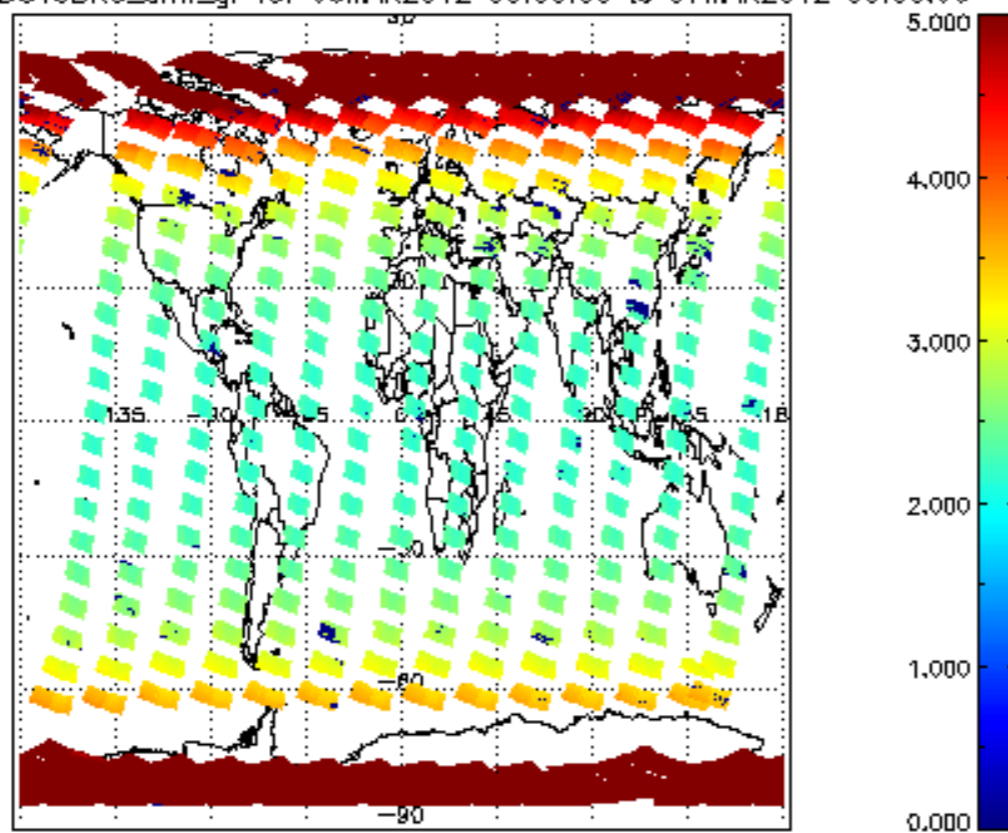
SCIOL2P_NADUV3BRO_vcd for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



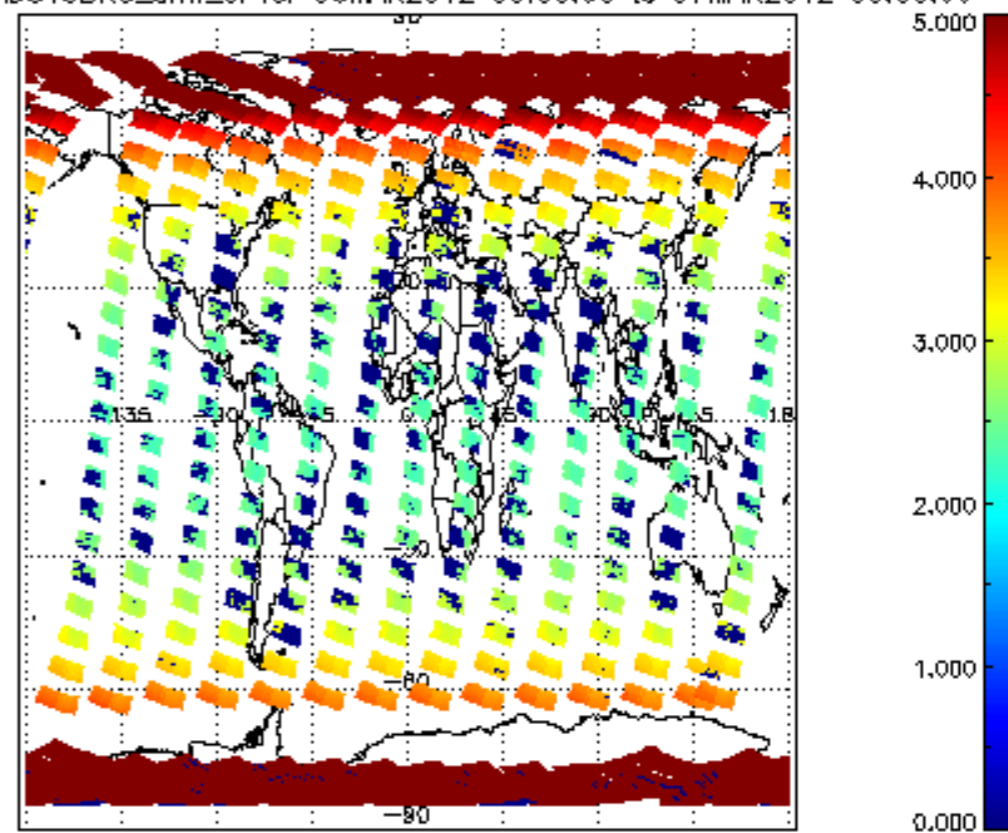
SCIOL2P_NADUV3BRO_vcd_err for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



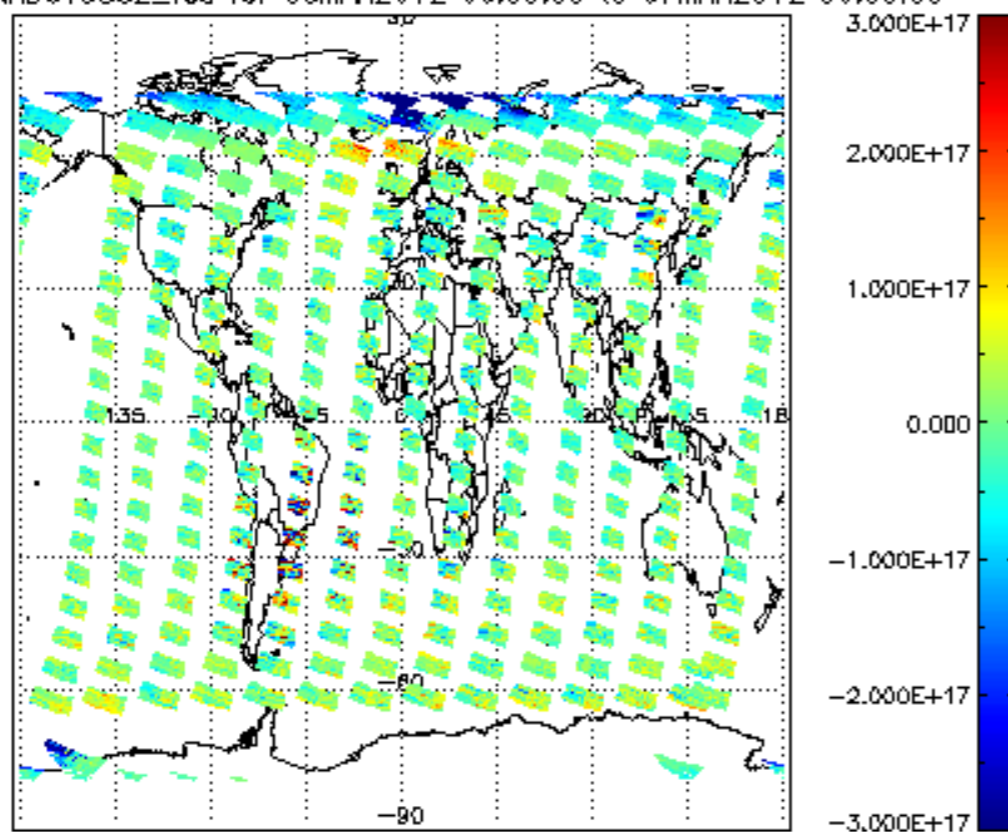
SCIOL2P_NADUV3BRO_arnf_gr for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



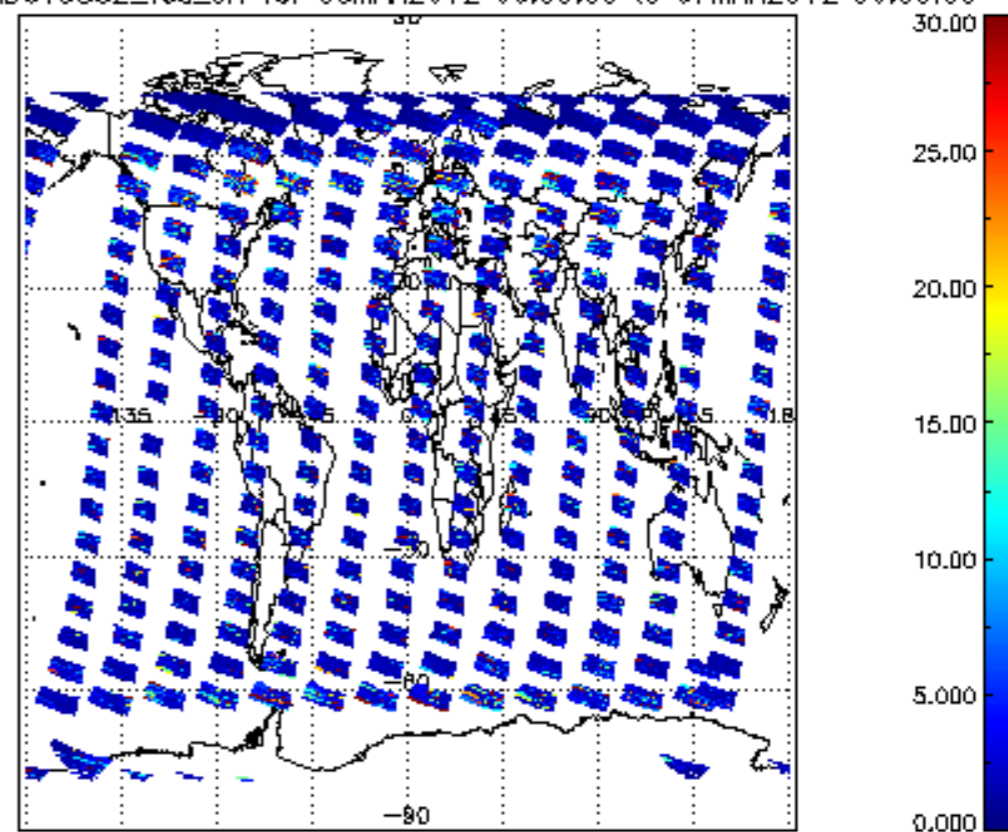
SCIOL2P_NADUV3BRO_arnf_cl for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



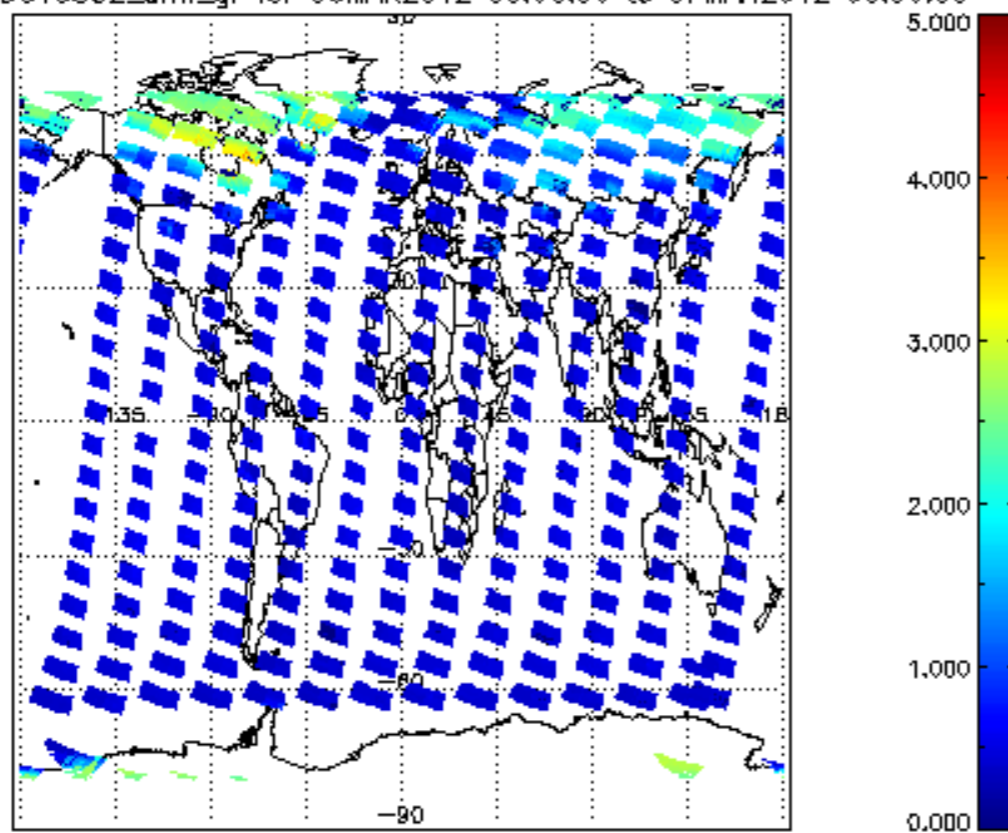
SCIOL2P_NADUV5S02_vcd for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



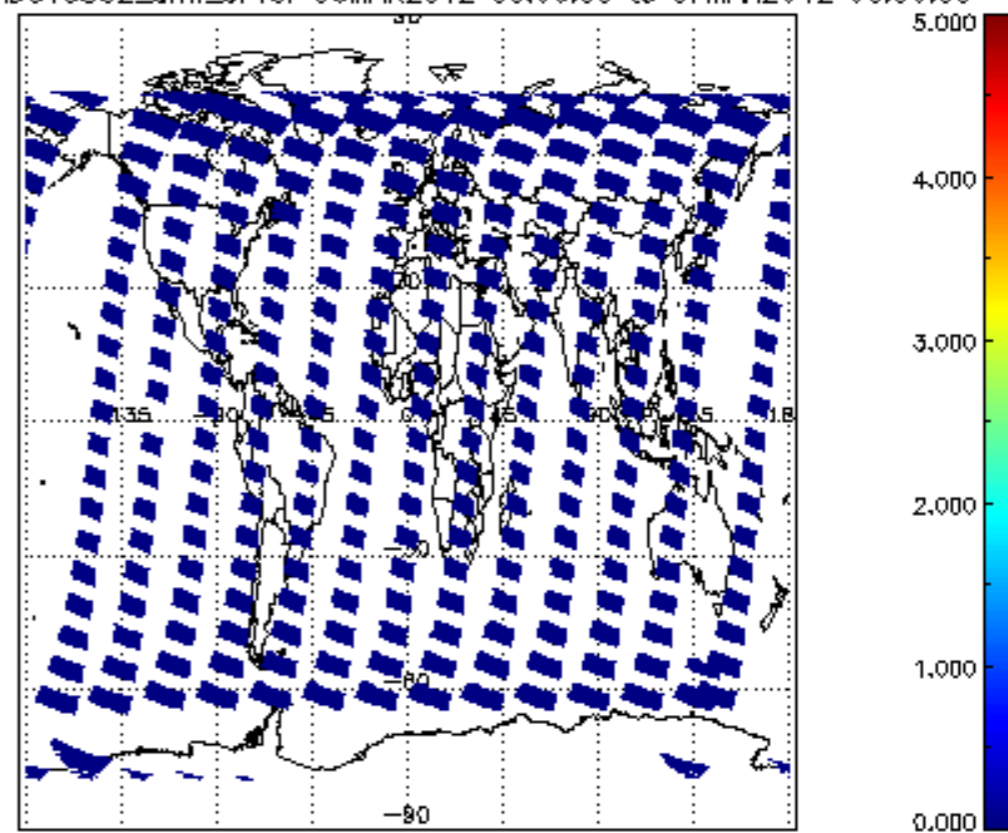
SCIOL2P_NADUV5S02_vcd_err for 06MAR2012 00:00:00 to 07MAR2012 00:00:00

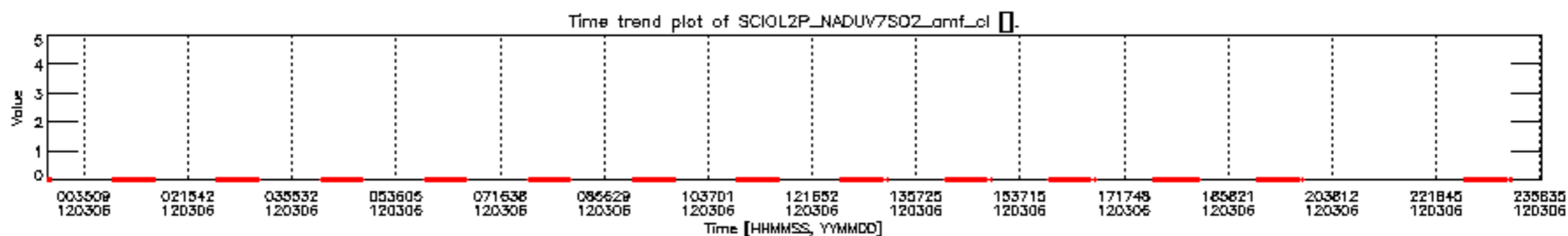
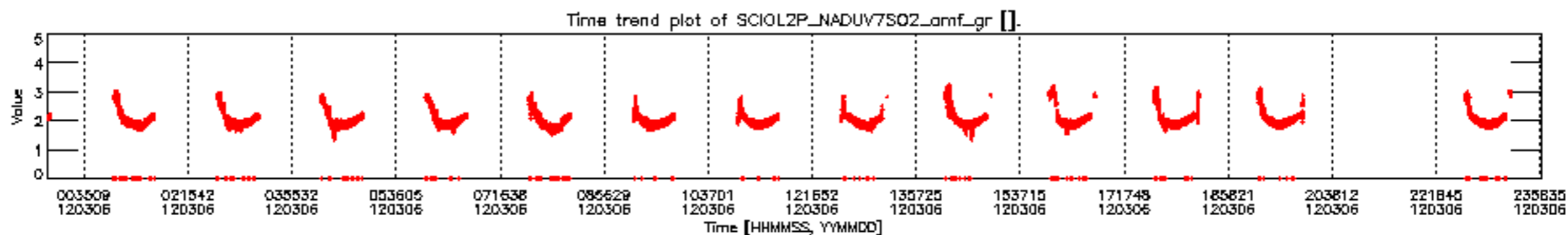
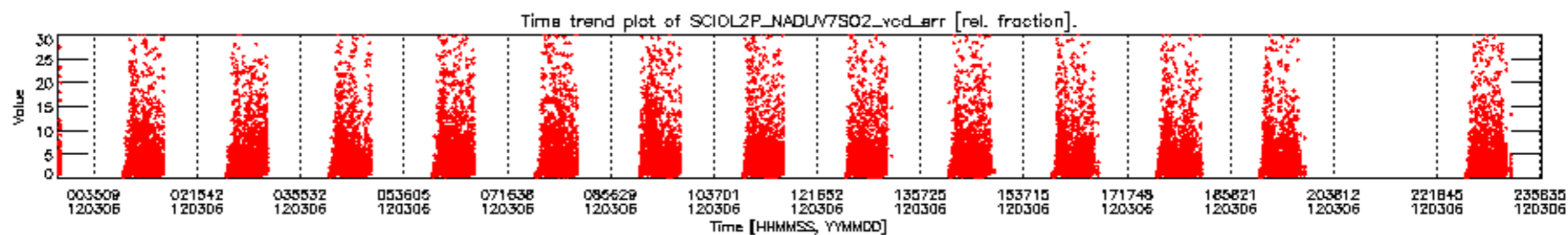
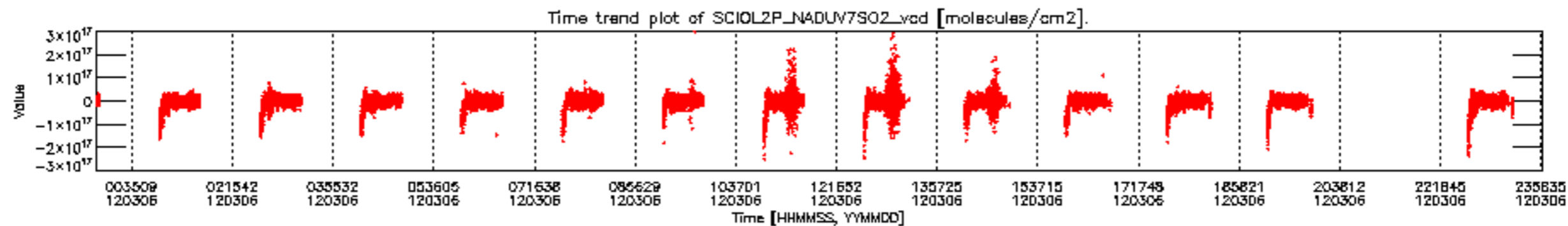


SCIOL2P_NADUV5S02_amf_gr for 06MAR2012 00:00:00 to 07MAR2012 00:00:00

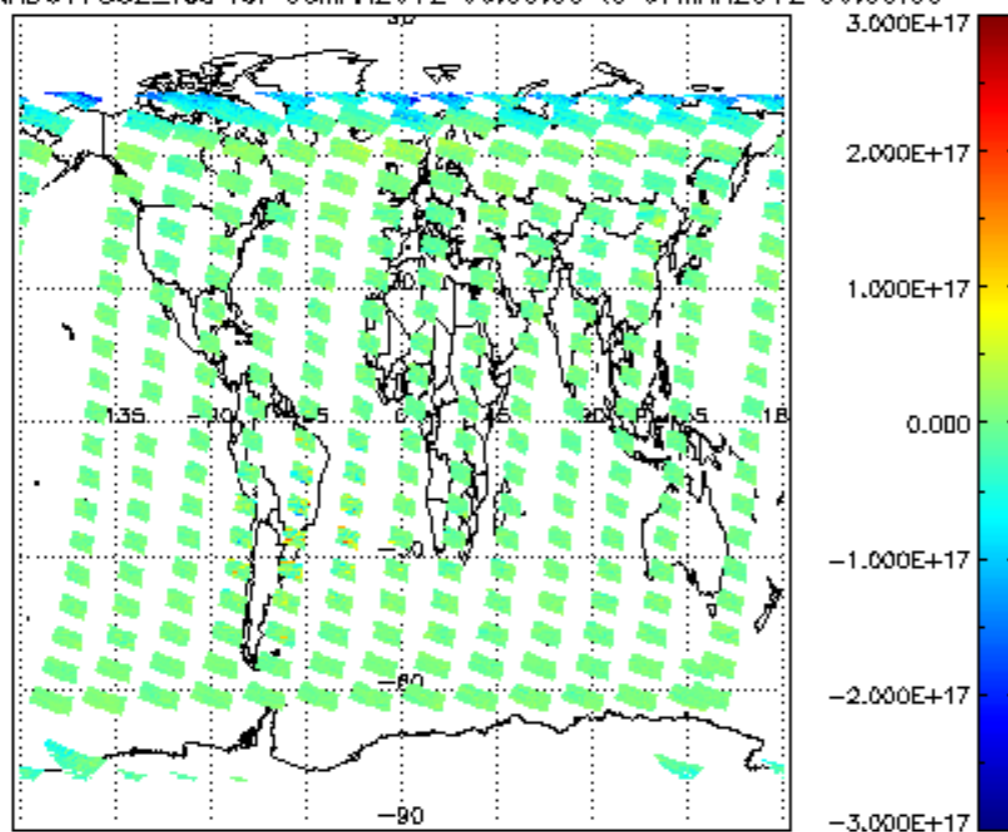


SCIOL2P_NADUV5S02_amf_cl for 06MAR2012 00:00:00 to 07MAR2012 00:00:00

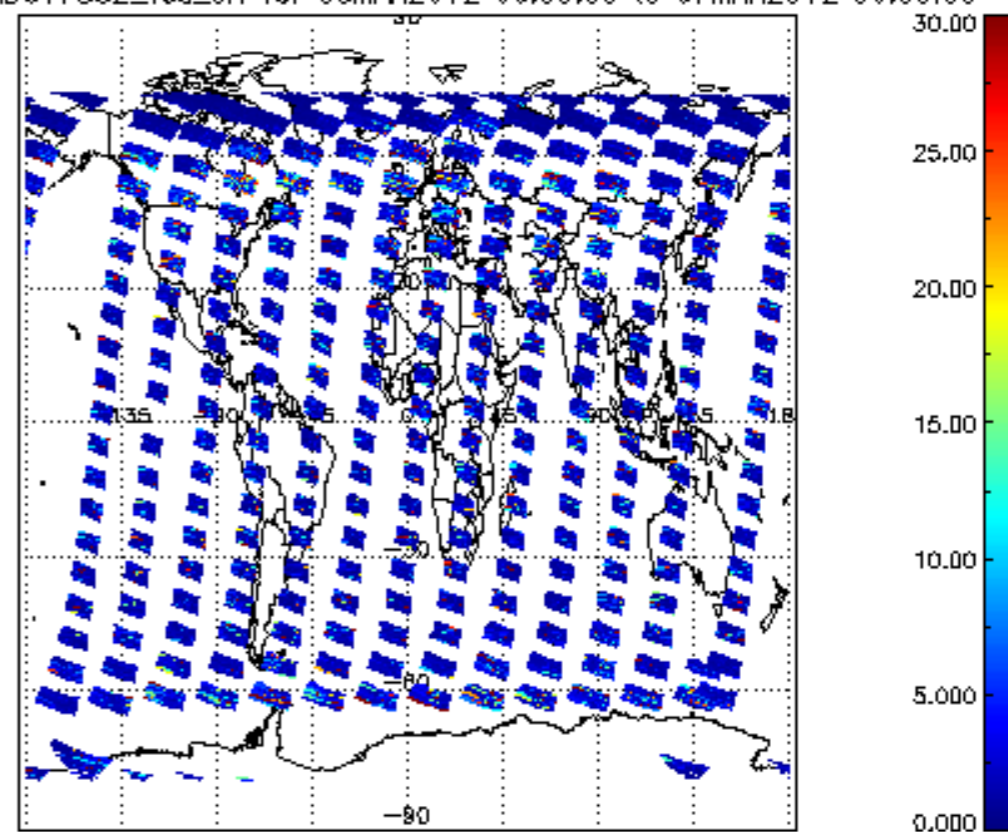




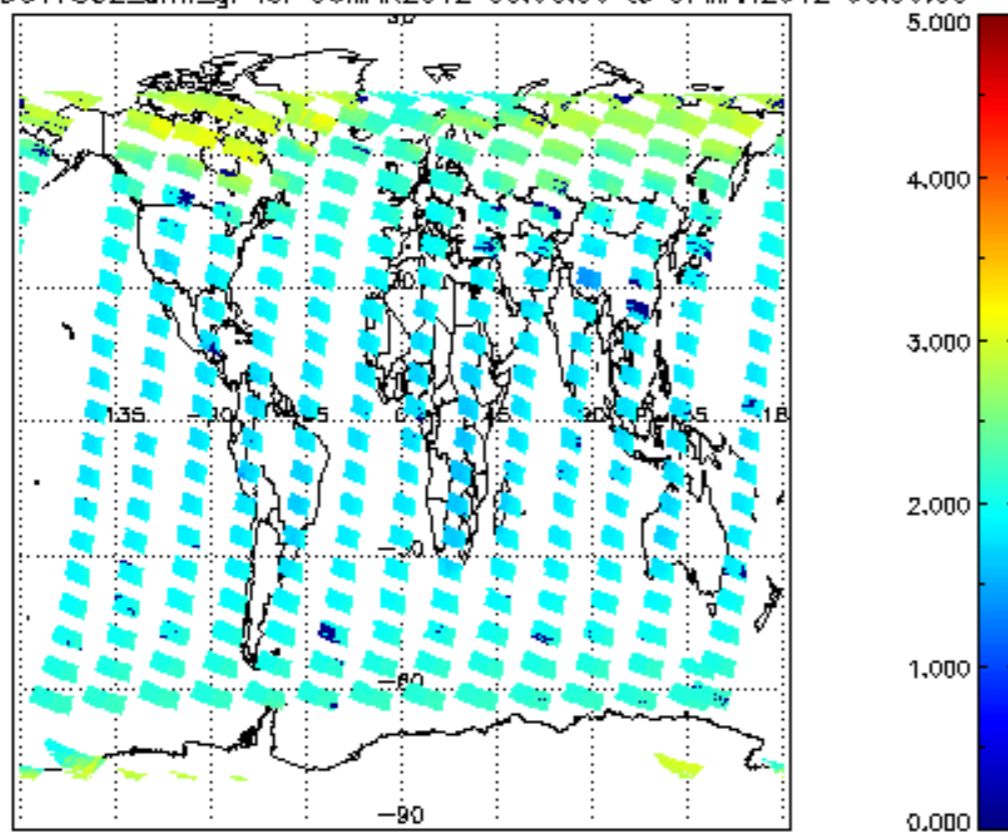
SCIOL2P_NADUV7S02_vcd for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



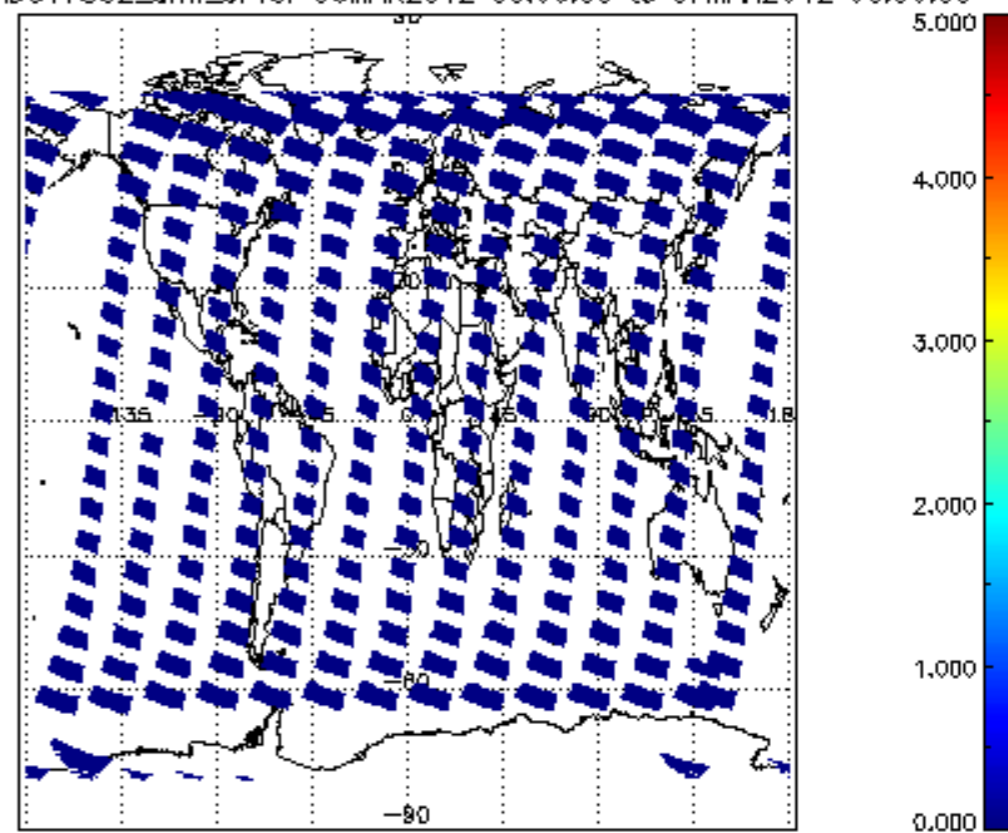
SCIOL2P_NADUV7S02_vcd_err for 06MAR2012 00:00:00 to 07MAR2012 00:00:00

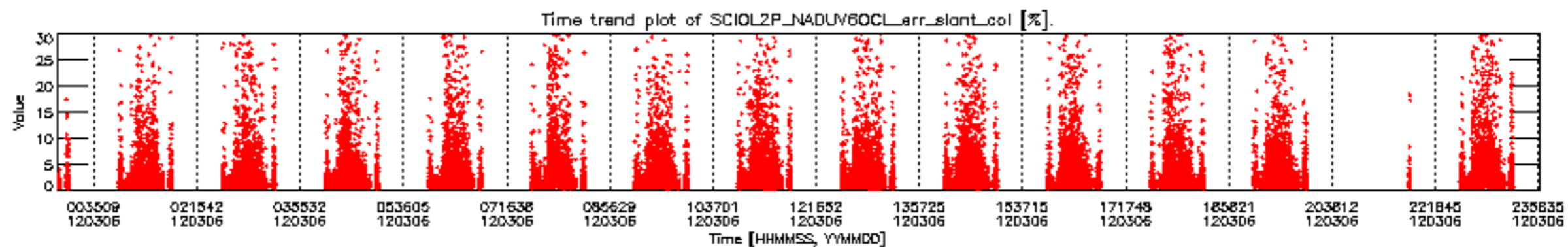
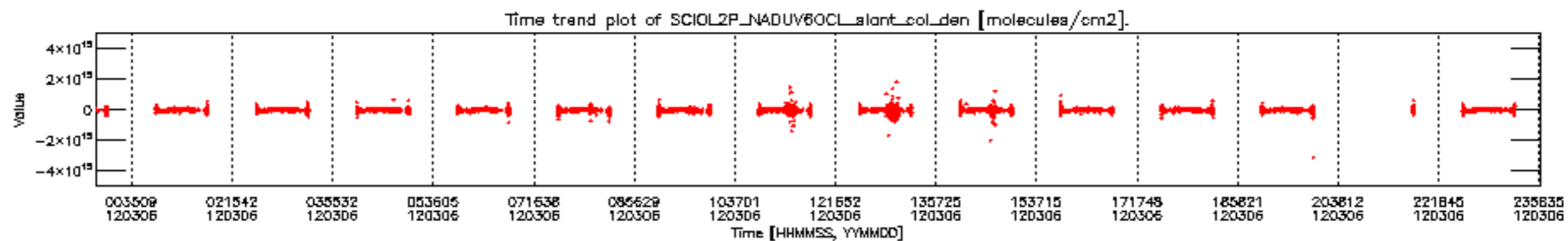


SCIOL2P_NADUV7S02_amf_gr for 06MAR2012 00:00:00 to 07MAR2012 00:00:00

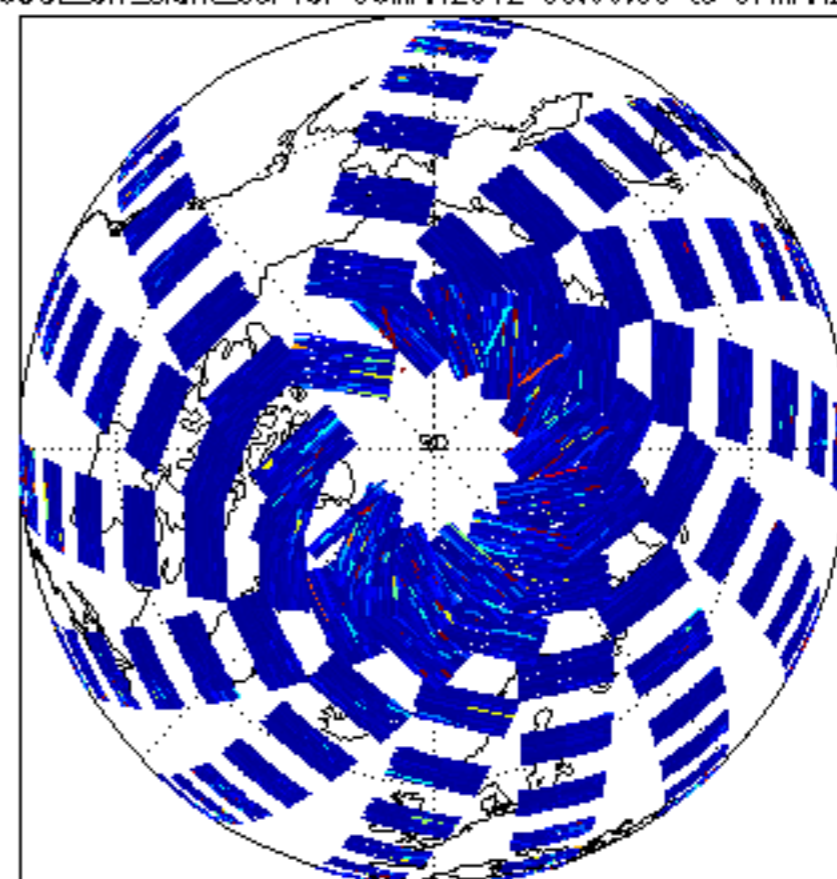
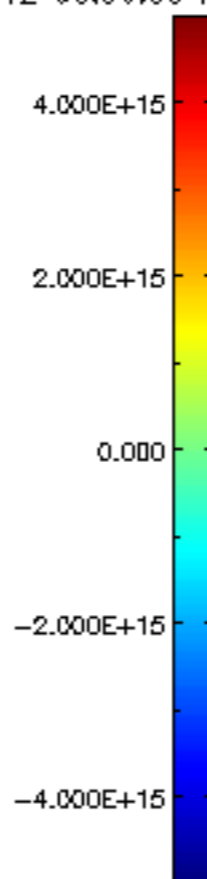
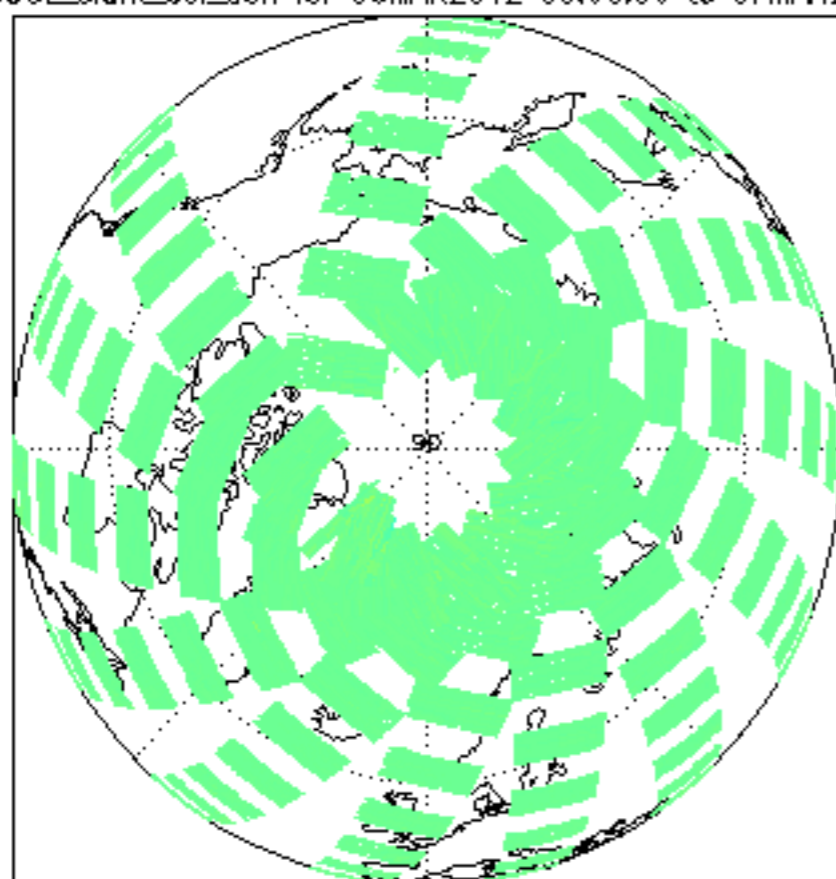


SCIOL2P_NADUV7S02_amf_cl for 06MAR2012 00:00:00 to 07MAR2012 00:00:00

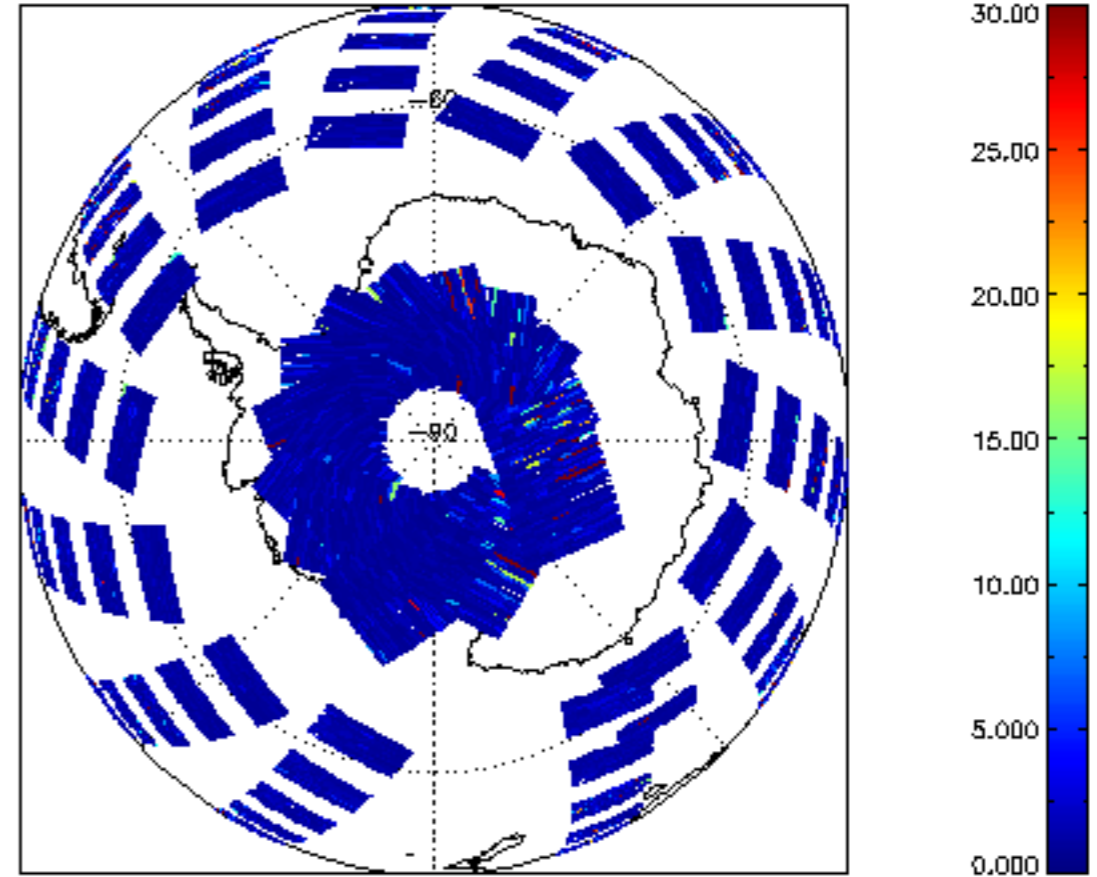
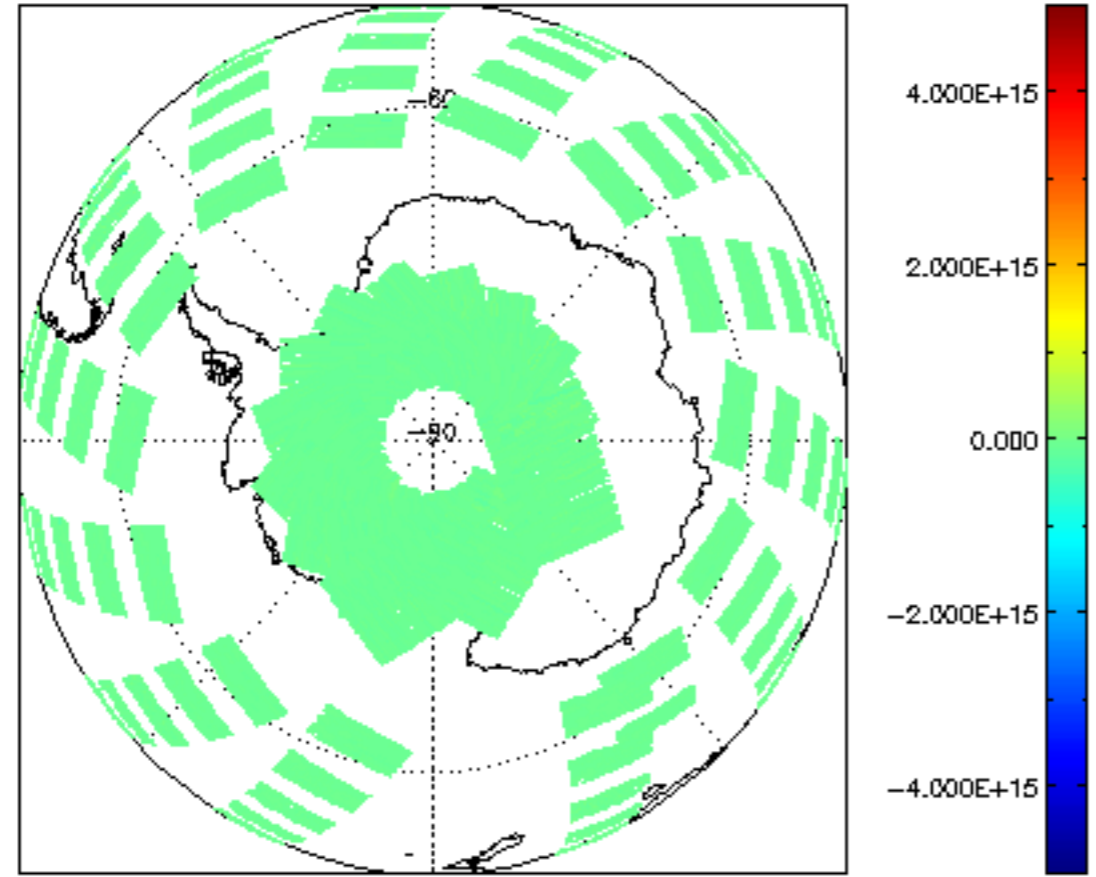


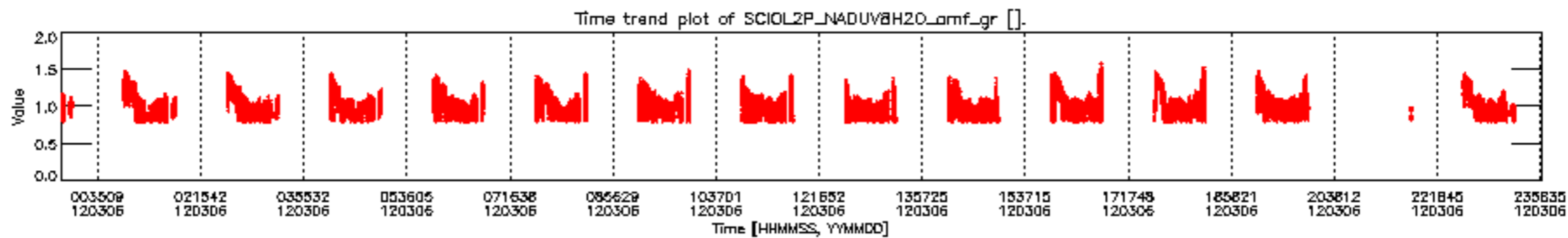
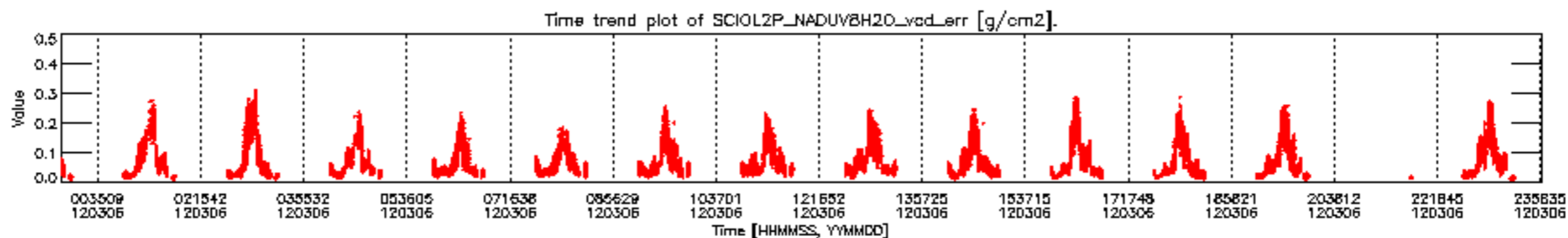
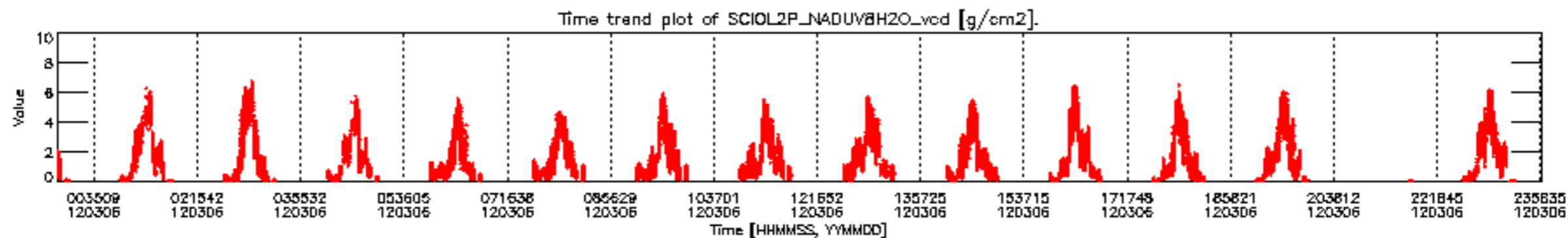


CIOL2P_NADUV6OCL_slant_col_den for 06MAR2012 00:00:00 to 07MAR2012 00:00:00 np; CIOL2P_NADUV6OCL_err_slant_col for 06MAR2012 00:00:00 to 07MAR2012 00:00:00 np

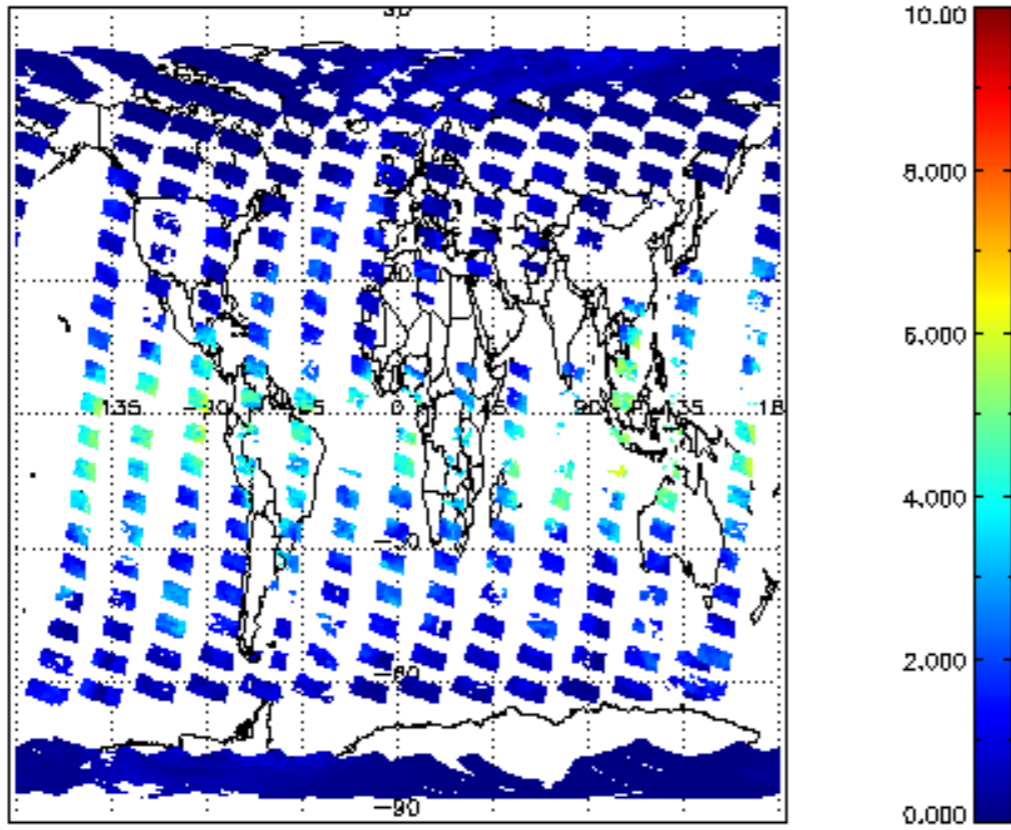


CIOL2P_NADUV6OCL_slant_colDen for 06MAR2012 00:00:00 to 07MAR2012 00:00:00 sp; CIOL2P_NADUV6OCL_err_slant_col for 06MAR2012 00:00:00 to 07MAR2012 00:00:00 sp

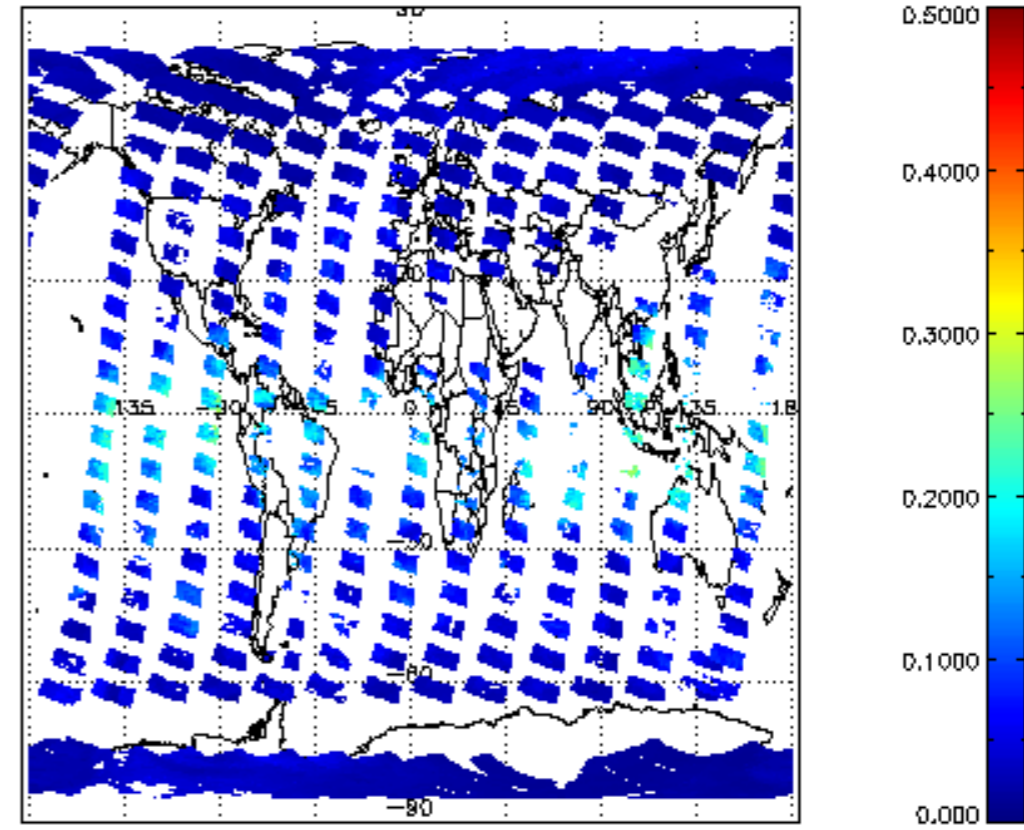




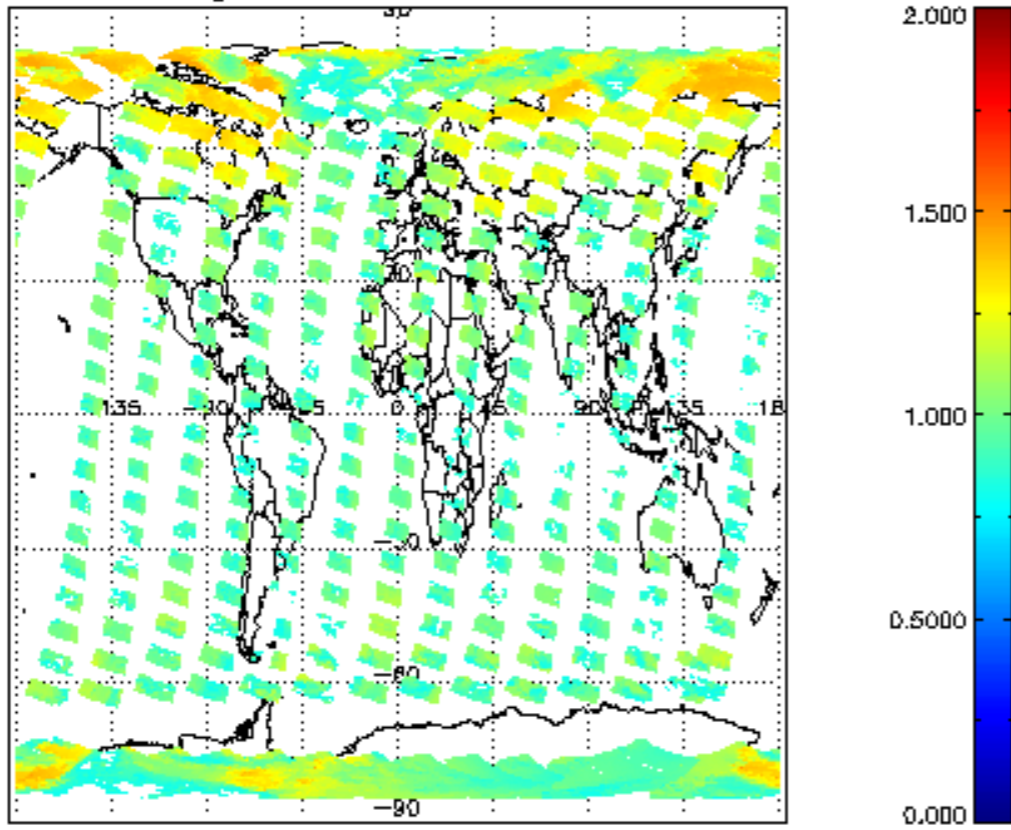
SCIOL2P_NADUV8H20_vcd for 06MAR2012 00:00:00 to 07MAR2012 00:00:00

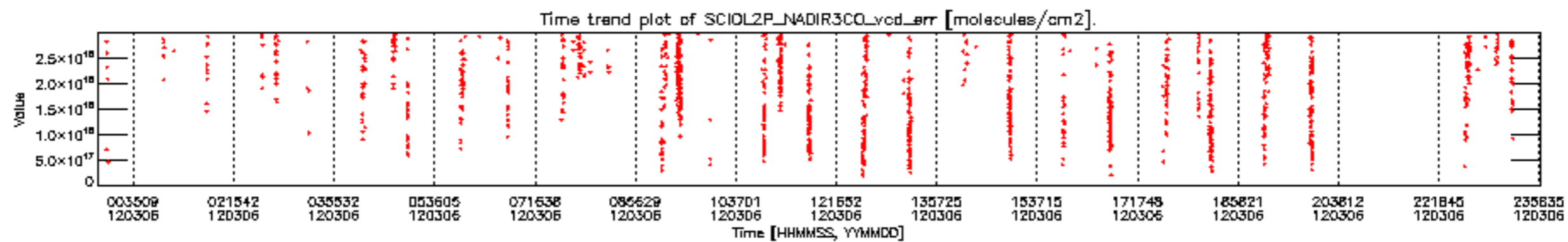
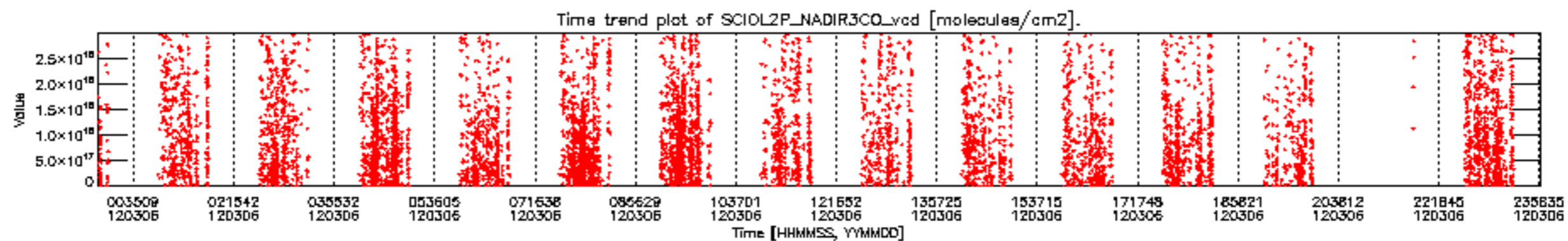


SCIOL2P_NADUV8H20_vcd_err for 06MAR2012 00:00:00 to 07MAR2012 00:00:00

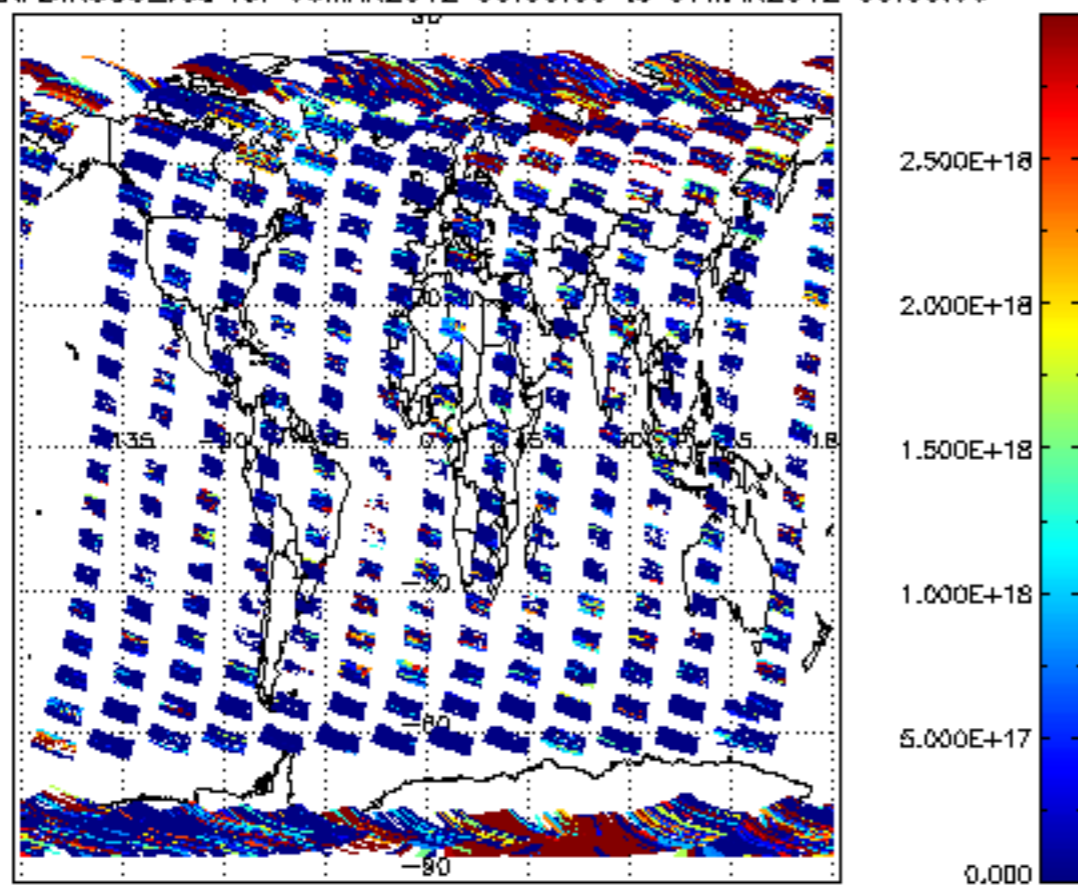


SCIOL2P_NADUV8H20_arnf_gr for 06MAR2012 00:00:00 to 07MAR2012 00:00:00

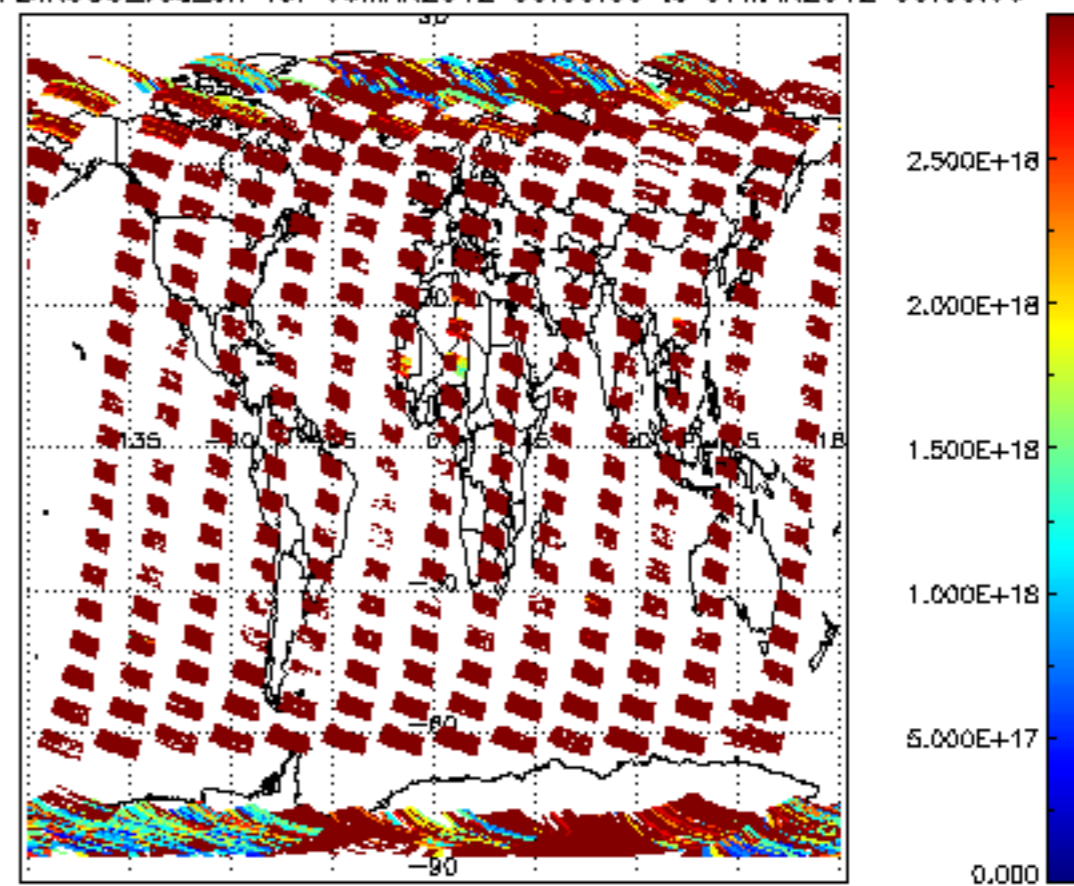




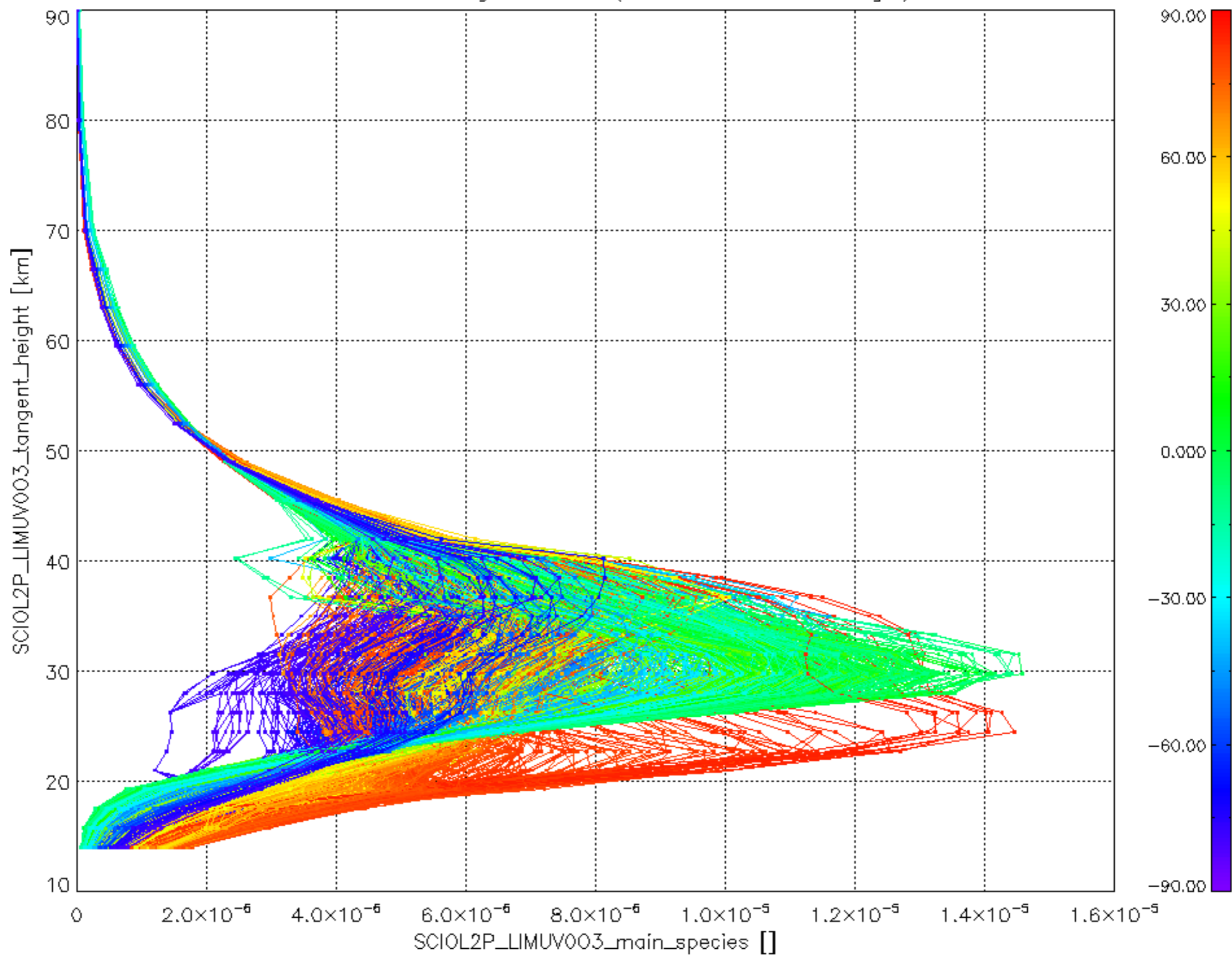
SCIOL2P_NADIR3CO_vcd for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



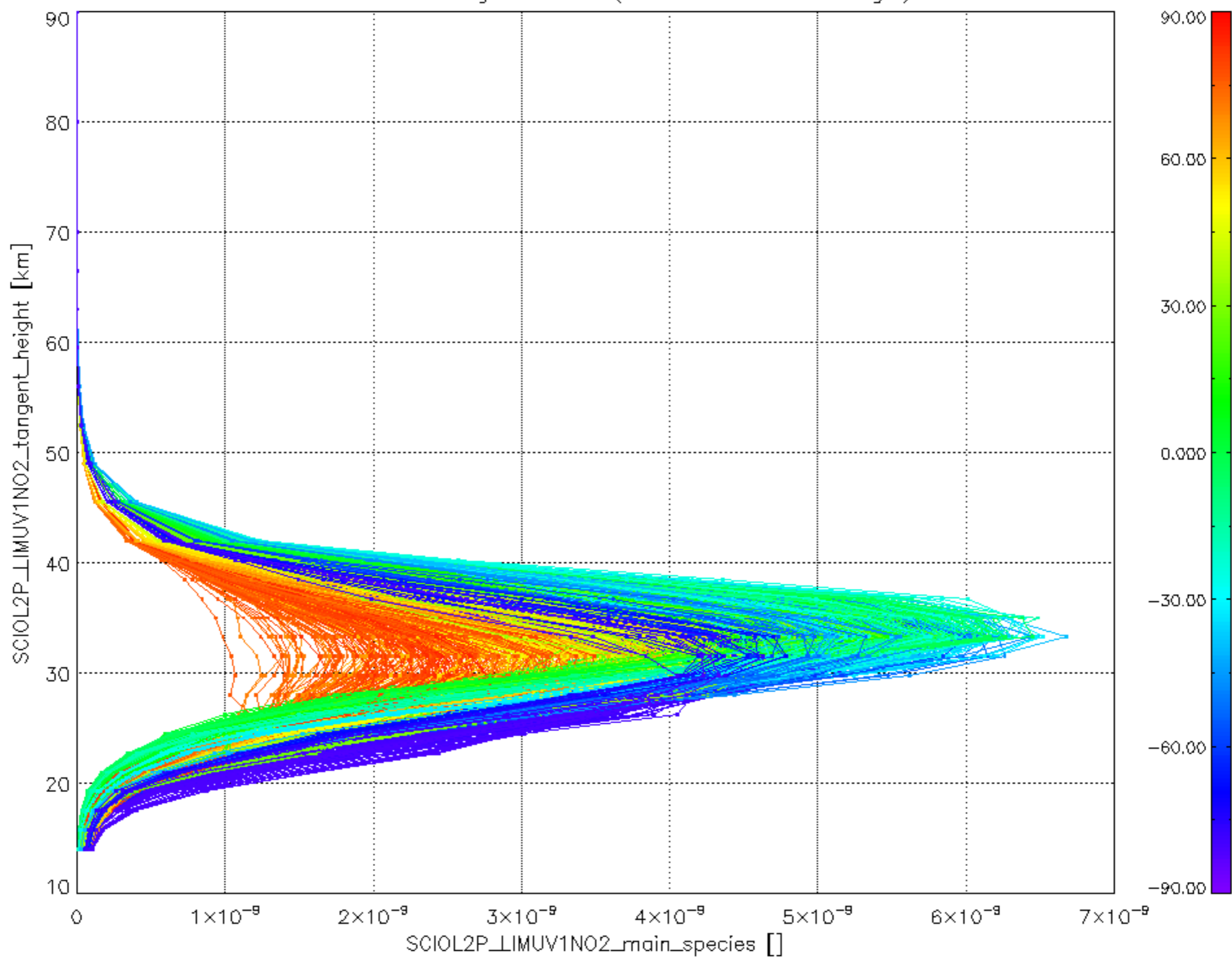
SCIOL2P_NADIR3CO_vcd_err for 06MAR2012 00:00:00 to 07MAR2012 00:00:00



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).

