

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	20MAR2012 15:14:45
Data source version	SCIA-OL/5.02-W
Processing scope for products	07MAR2012 00:00:00 to 08MAR2012 00:00:00
Start time of first product within scope	07MAR2012 00:16:25
Stop time of last product within scope	07MAR2012 19:37:50
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__2PWDPA20120307_001625_000035363112_00232_52401_3881.N1	07MAR2012 00:16:25	07MAR2012 01:15:21	0	GOOD
1	SCI_OL__2PWDPA20120307_015638_000035273112_00233_52402_3882.N1	07MAR2012 01:56:38	07MAR2012 02:55:26	0	GOOD
2	SCI_OL__2PWDPA20120307_033652_000035183112_00234_52403_3883.N1	07MAR2012 03:36:52	07MAR2012 04:35:30	0	GOOD
3	SCI_OL__2PWDPA20120307_051705_000035083112_00235_52404_3884.N1	07MAR2012 05:17:05	07MAR2012 06:15:34	0	GOOD
4	SCI_OL__2PWDPA20120307_065719_000034993112_00236_52405_3885.N1	07MAR2012 06:57:19	07MAR2012 07:55:38	0	GOOD

5	SCI_OL__2PWDP	20120307_083732_000035583112_00237_52406_3894.N1	07MAR2012 08:37:32	07MAR2012 09:36:51	0	GOOD
6	SCI_OL__2PWDP	20120307_101746_000035483112_00238_52407_3886.N1	07MAR2012 10:17:46	07MAR2012 11:16:54	0	GOOD
7	SCI_OL__2PWDP	20120307_115759_000035303112_00239_52408_3887.N1	07MAR2012 11:57:59	07MAR2012 12:56:50	0	GOOD
8	SCI_OL__2PWDP	20120307_133813_000035163112_00240_52409_3892.N1	07MAR2012 13:38:13	07MAR2012 14:36:49	0	GOOD
9	SCI_OL__2PWDP	20120307_151826_000035303112_00241_52410_3891.N1	07MAR2012 15:18:26	07MAR2012 16:17:17	0	GOOD
10	SCI_OL__2PWDP	20120307_165840_000035163112_00242_52411_3888.N1	07MAR2012 16:58:40	07MAR2012 17:57:16	0	GOOD
11	SCI_OL__2PWDP	20120307_184021_000034483112_00243_52412_3893.N1	07MAR2012 18:40:21	07MAR2012 19:37:50	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: 124540

Total number of cloud data DSRs with good quality flag (=0): 124540 (100.0 %)

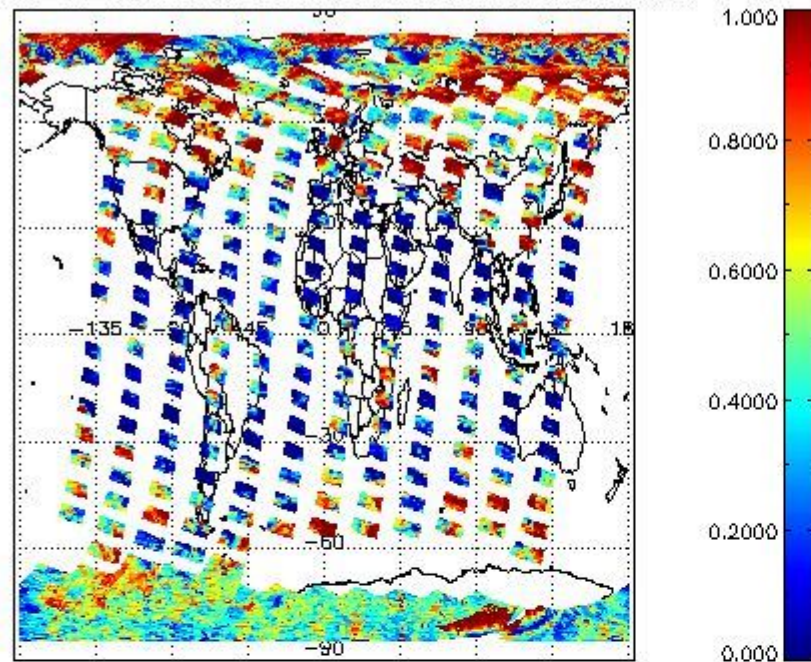
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	124540	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	124540	0.17015	0.12500	0.12500	0.25000	0.060043	s
CL_FRAC	124540	0.48059	0.46350	0.0000	1.0000	0.33176	
CL_FRAC_ERR	124540	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	124540	5.4447	4.0000	4.0000	8.0000	1.9214	
PMD_READ_CL[0]	124540	0.71364	0.0000	0.0000	8.0000	1.6037	-
PMD_READ_CL[1]	124540	1.1347	0.0000	0.0000	8.0000	2.4686	-
CL_TOP_HEIGHT	97822	3.7377	2.1409	0.0000	17.000	3.8948	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	97822	56.008	48.447	0.0000	101.00	40.827	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	124540	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	124540	11001100	11000100	11000000	11100000	3474.5	
AERO_ABSO_IND	124540	0.10530	0.0000	0.0000	7.8191	0.33553	
AERO_IND_DIAG	124540	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	124540	01011001	00000000	00000000	11000000	24512.	

Time and geolocation plots:

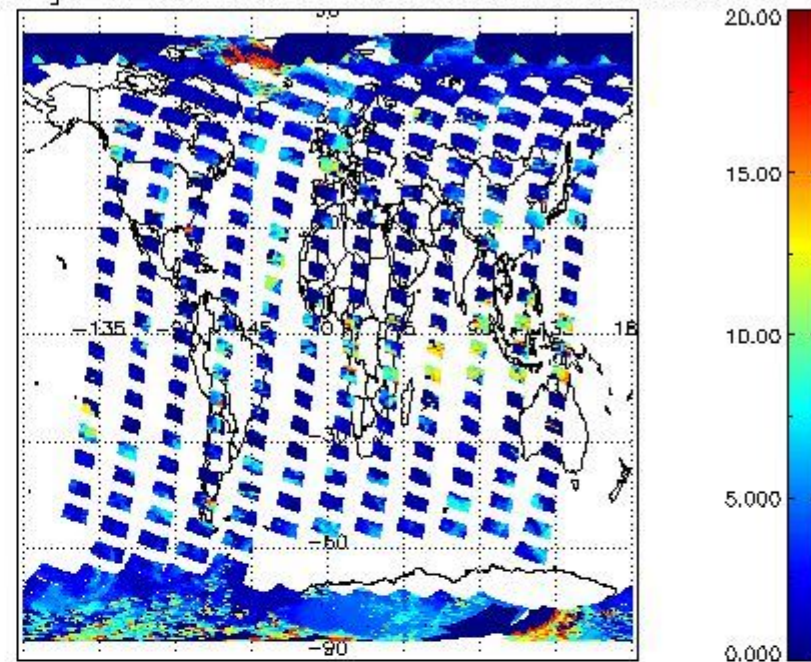
Plots are available for the following parameters:

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

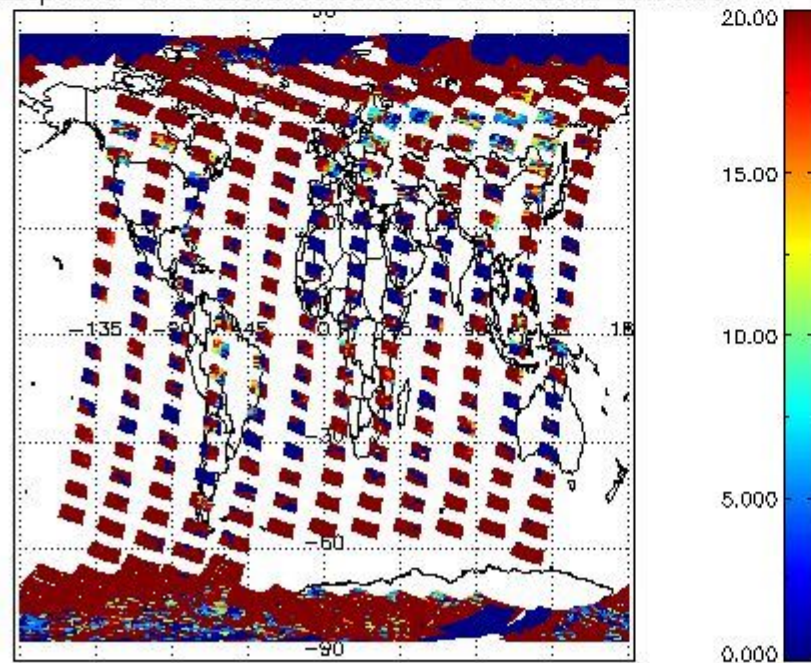
cL_frac for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



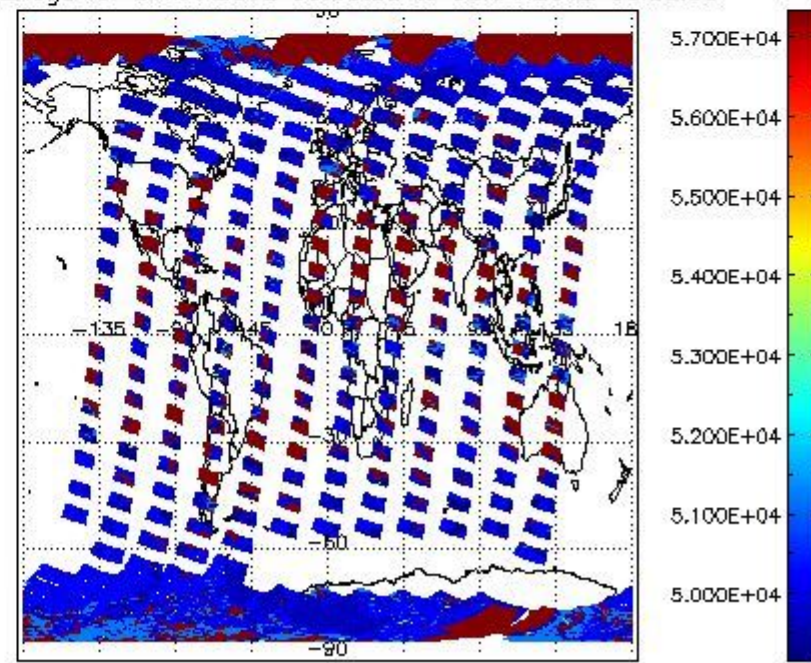
cL_top_height for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



cL_opt_depth for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



cloud_flags for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



2.2.2 Nadir

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

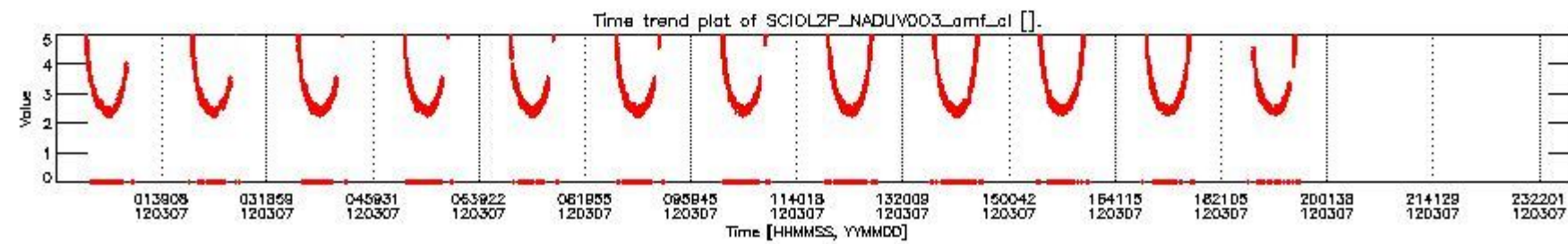
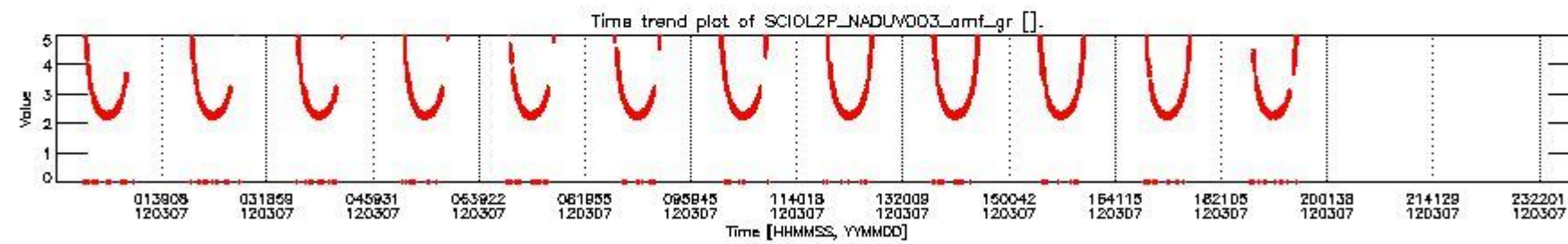
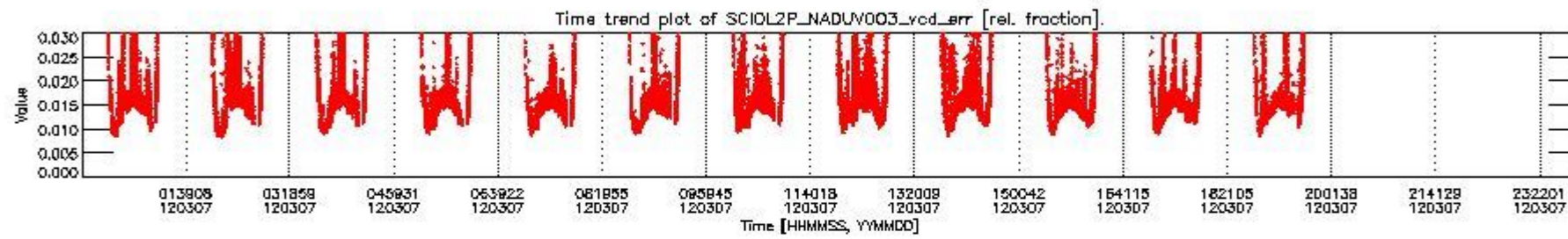
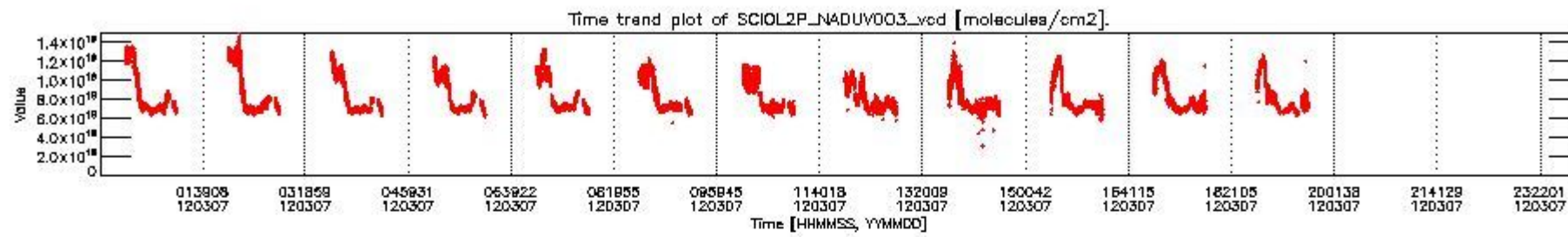
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

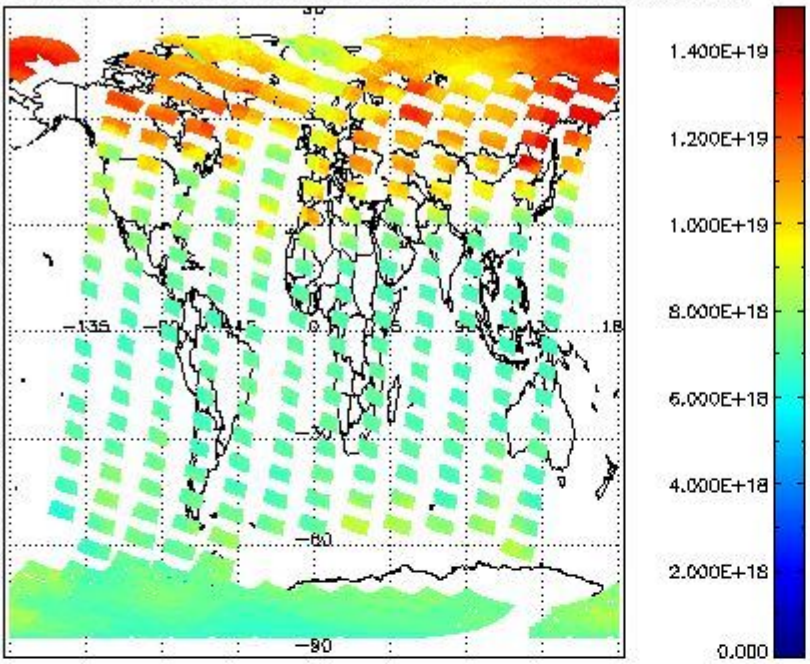
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

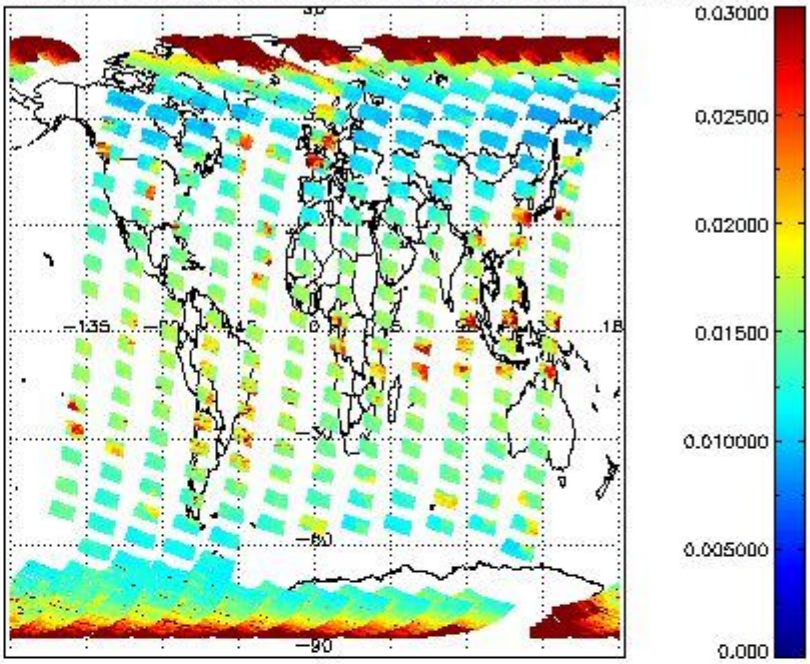
2.2.2.1 O3 (UV0)



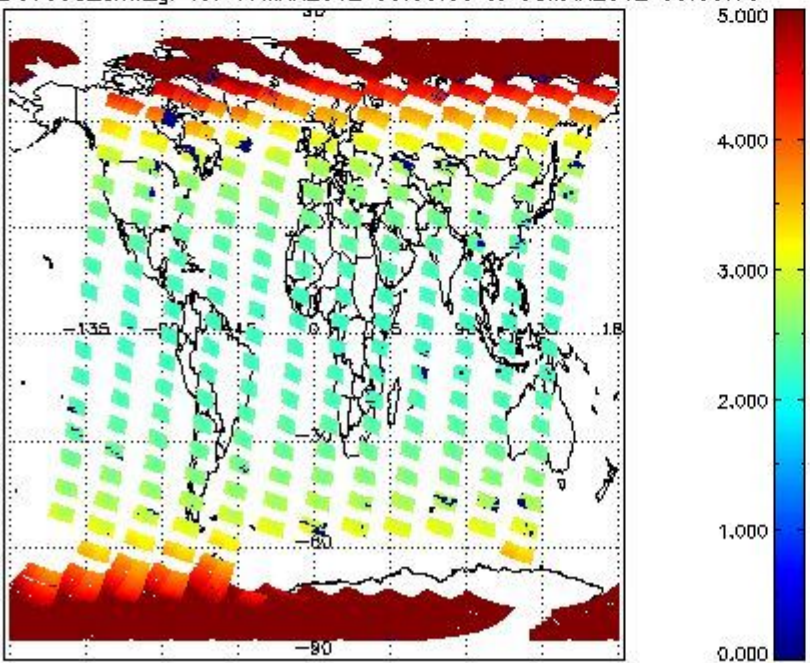
SCIOL2P_NADUV003_vcd for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



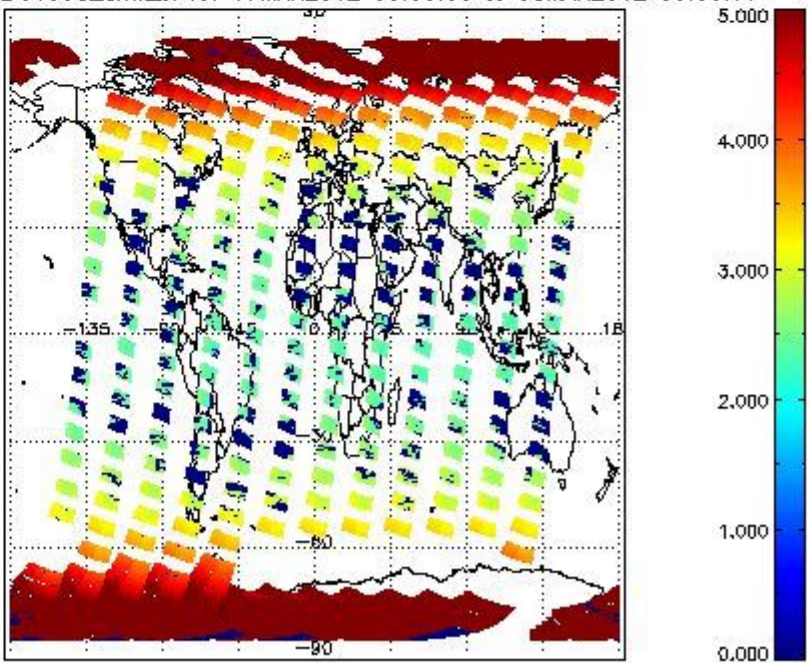
SCIOL2P_NADUV003_vcd_err for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



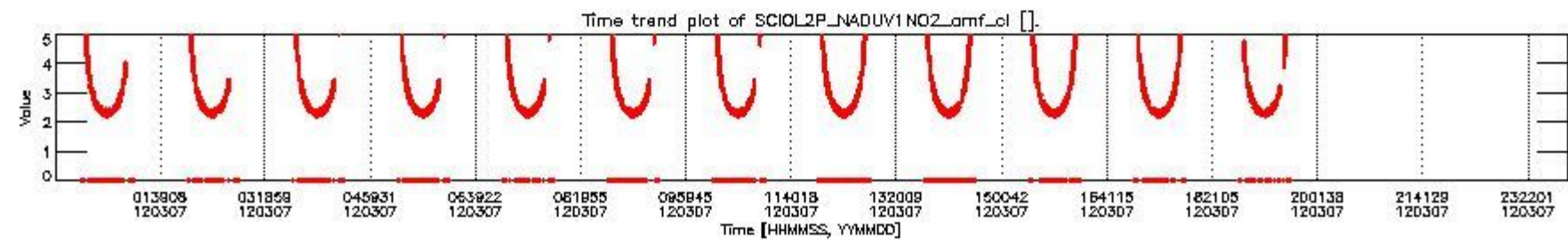
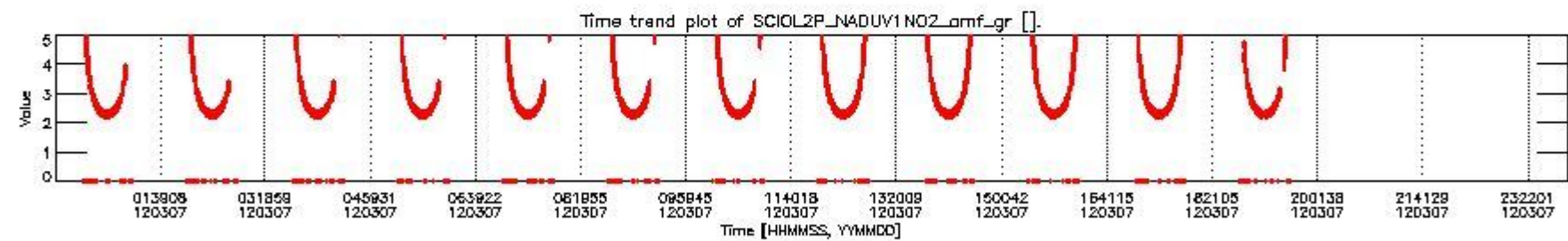
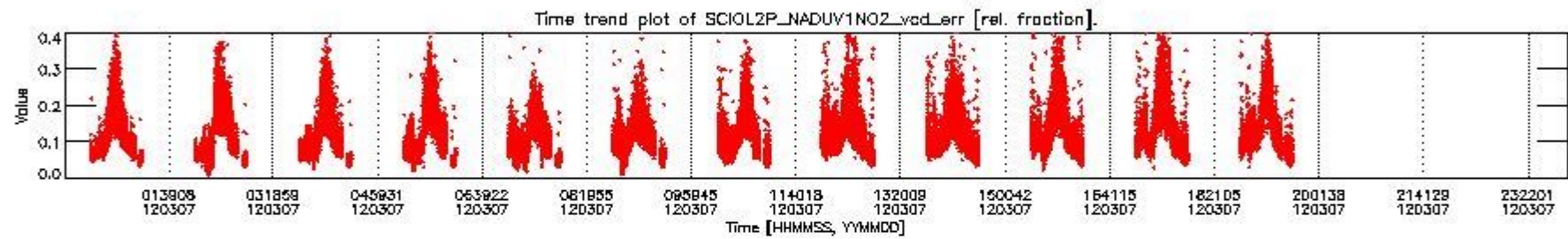
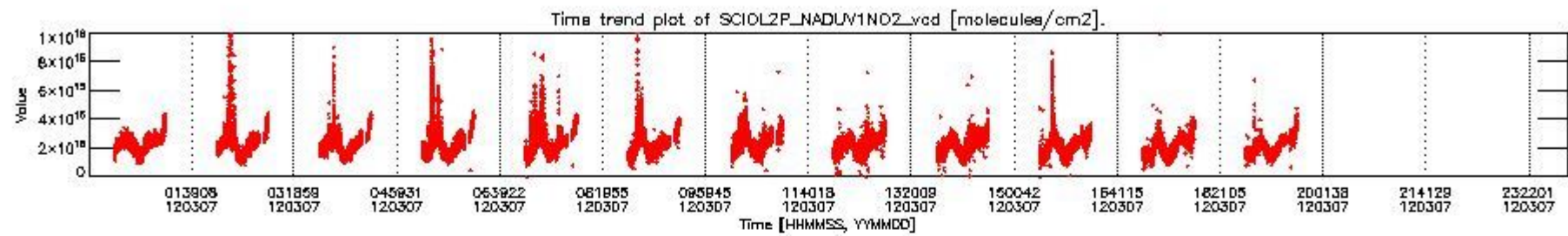
SCIOL2P_NADUV003_amf_gr for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



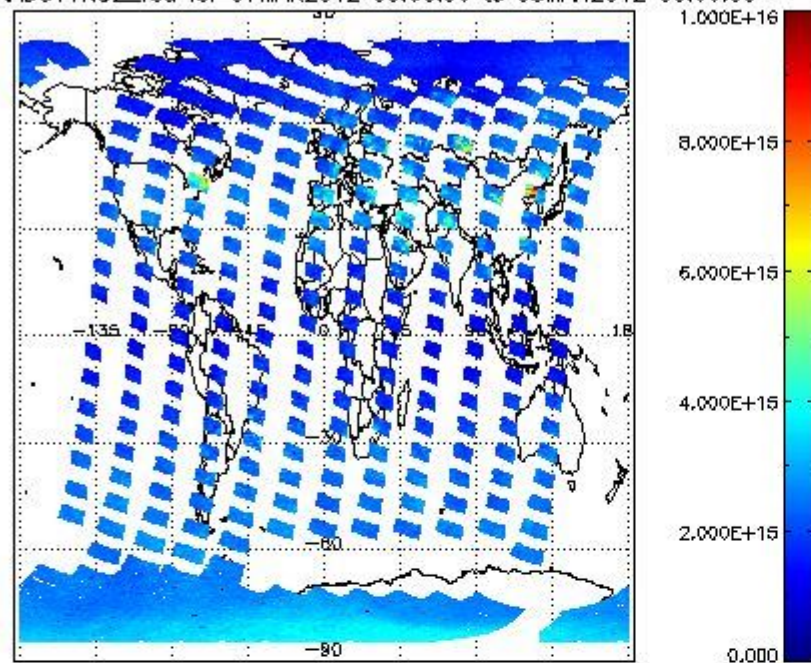
SCIOL2P_NADUV003_amf_cl for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



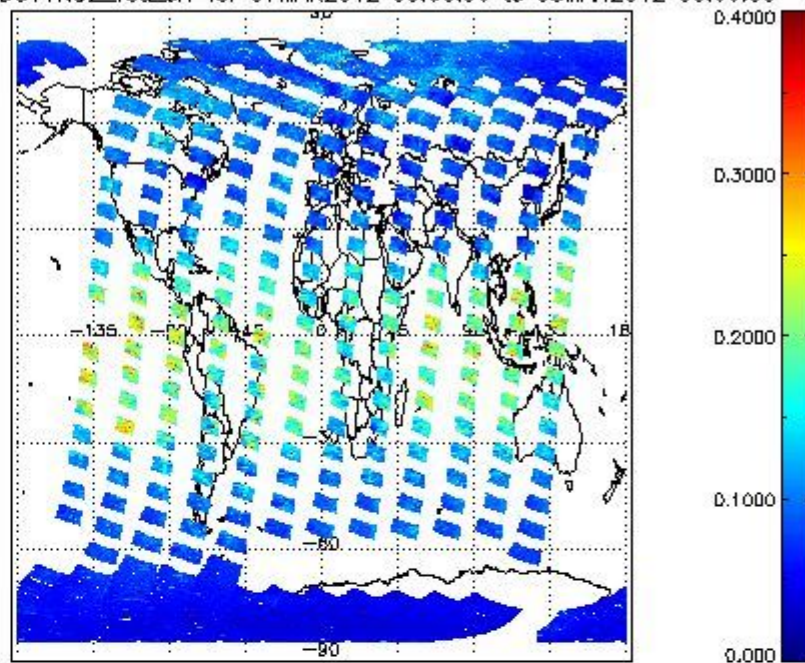
2.2.2.2 NO2 (UV1)



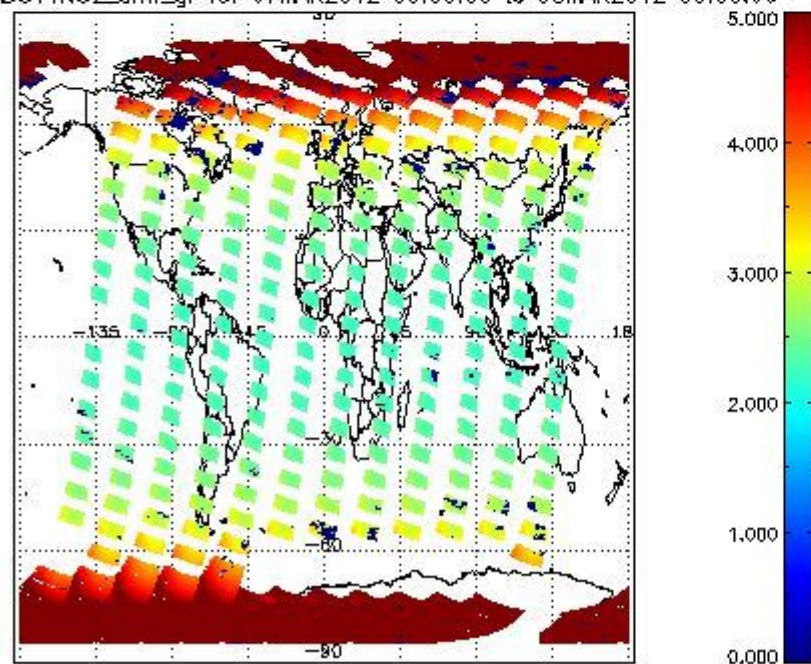
SCIOL2P_NADUV1NO2_vcd for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



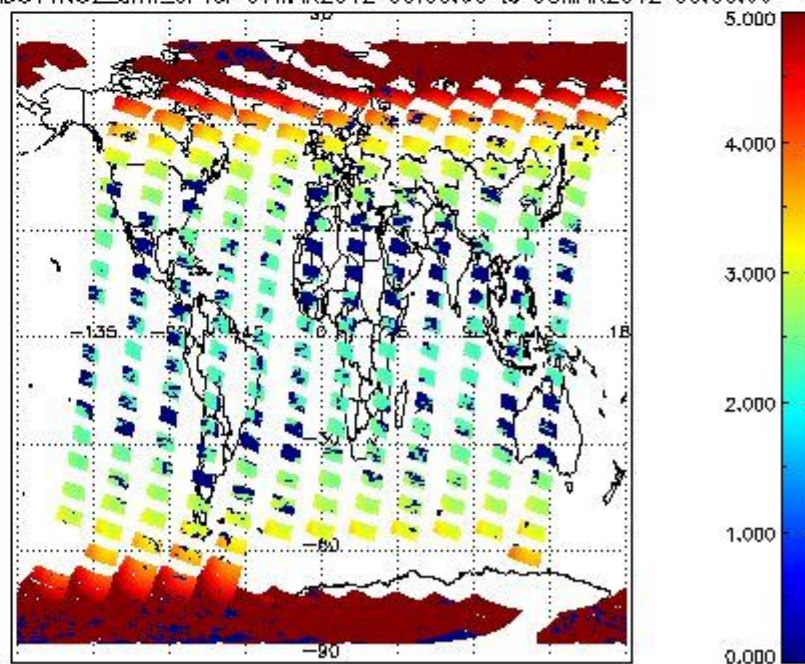
SCIOL2P_NADUV1NO2_vcd_err for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



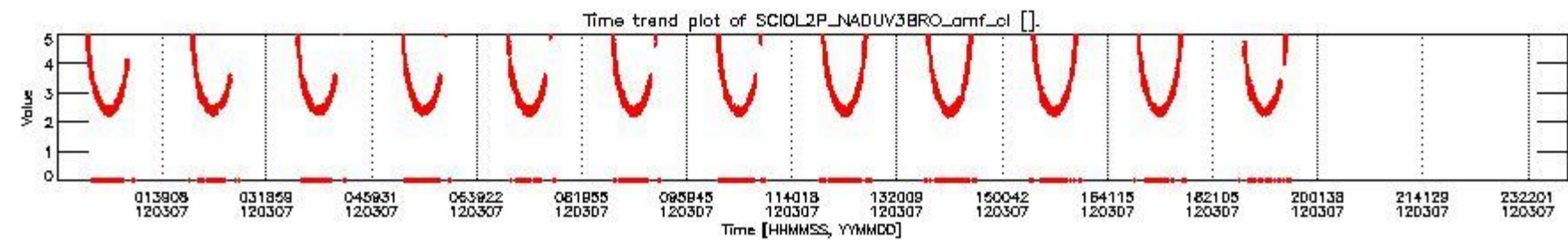
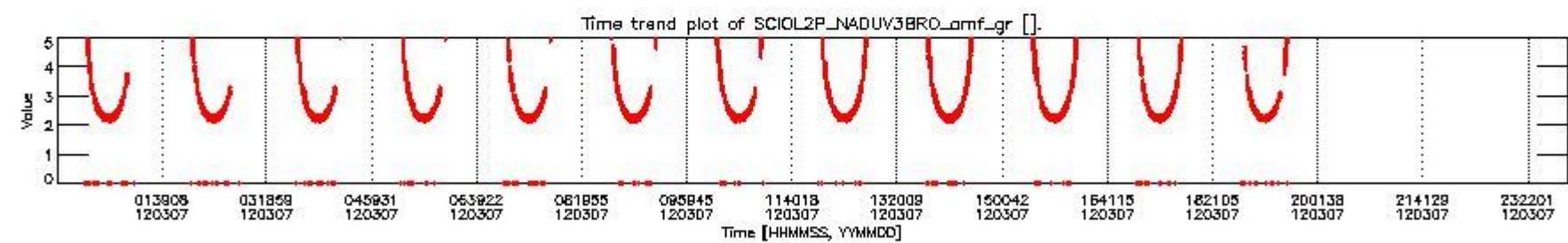
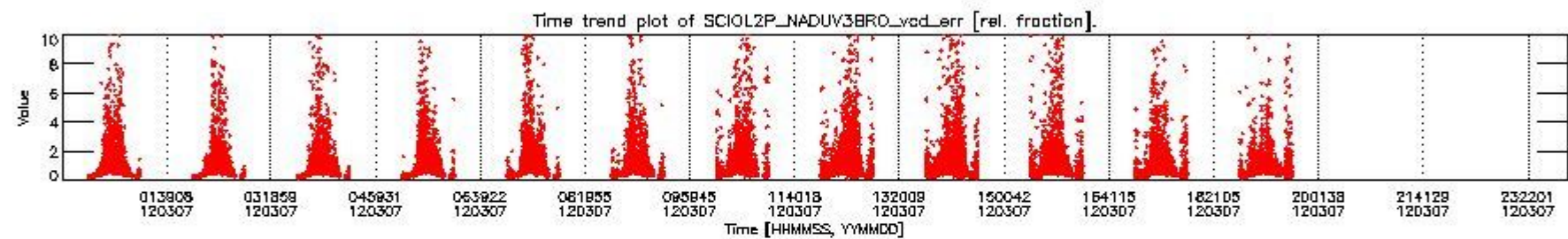
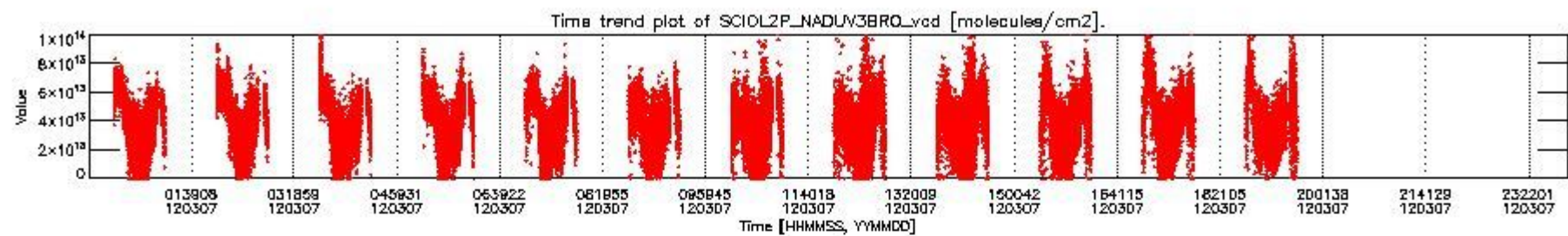
SCIOL2P_NADUV1NO2_amf_gr for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



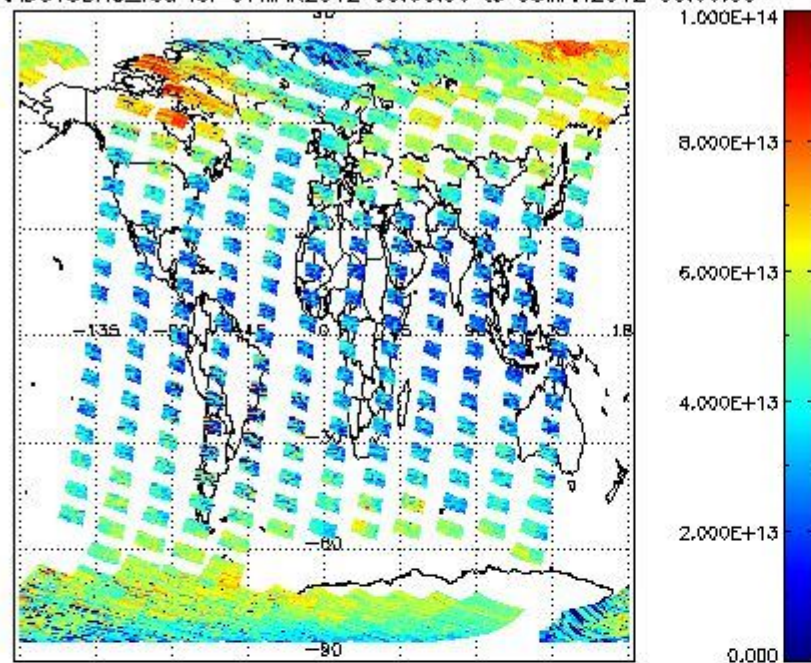
SCIOL2P_NADUV1NO2_amf_cl for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



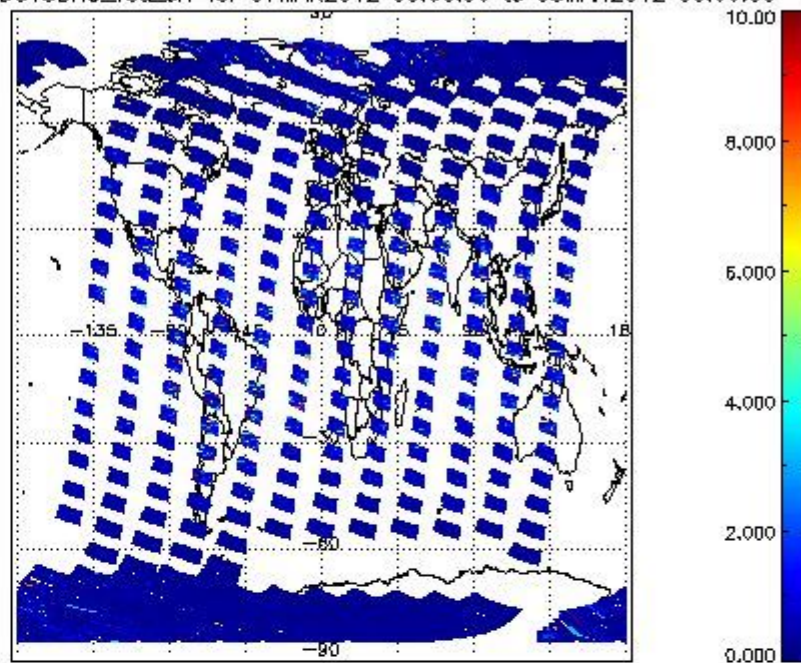
2.2.2.3 BrO (UV3)



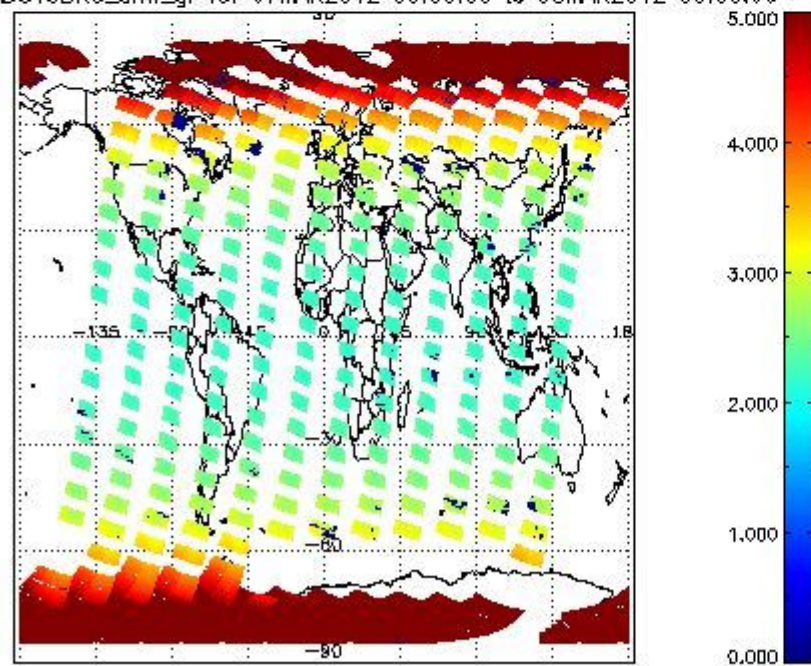
SCIOL2P_NADUV3BRO_vcd for 07MAR2012 00:00:00 to 06MAR2012 00:00:00



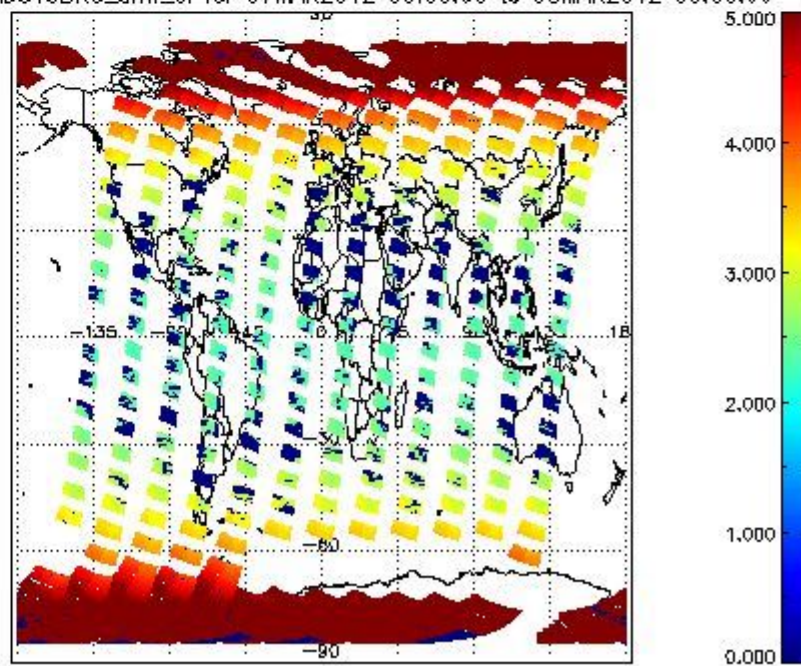
SCIOL2P_NADUV3BRO_vcd_err for 07MAR2012 00:00:00 to 06MAR2012 00:00:00



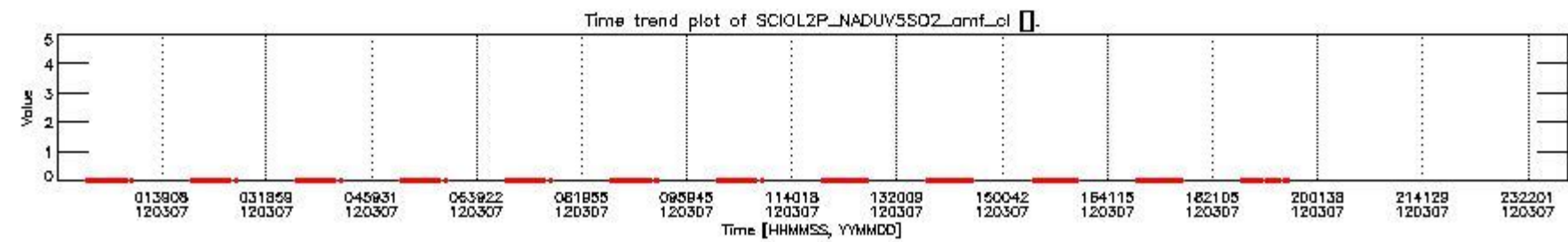
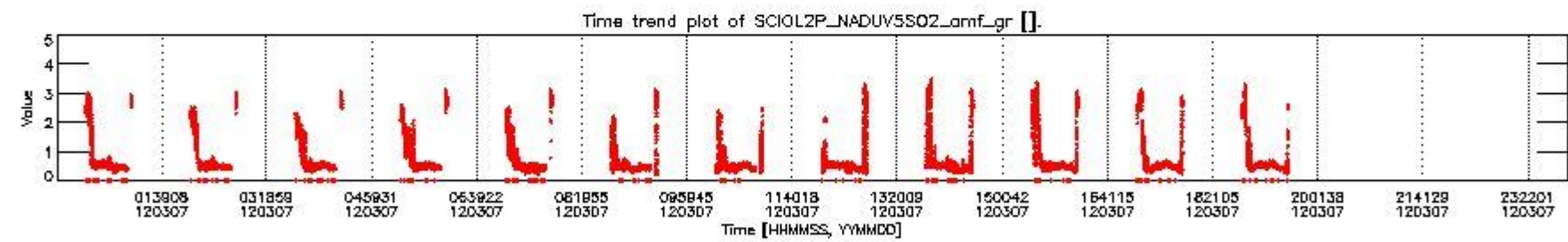
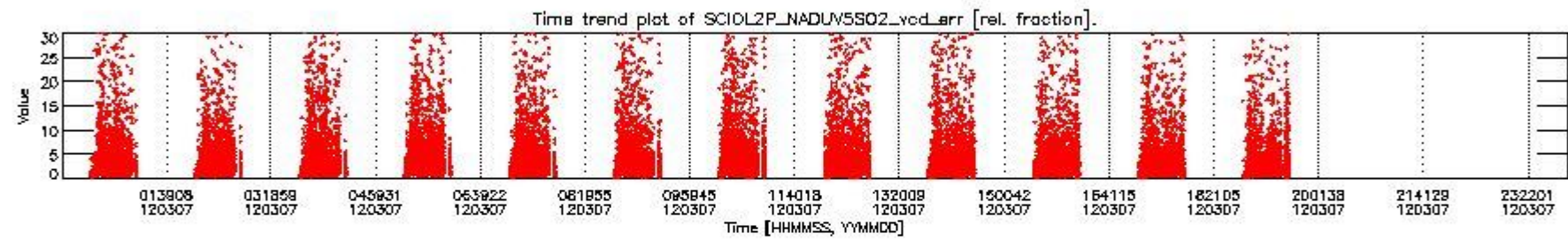
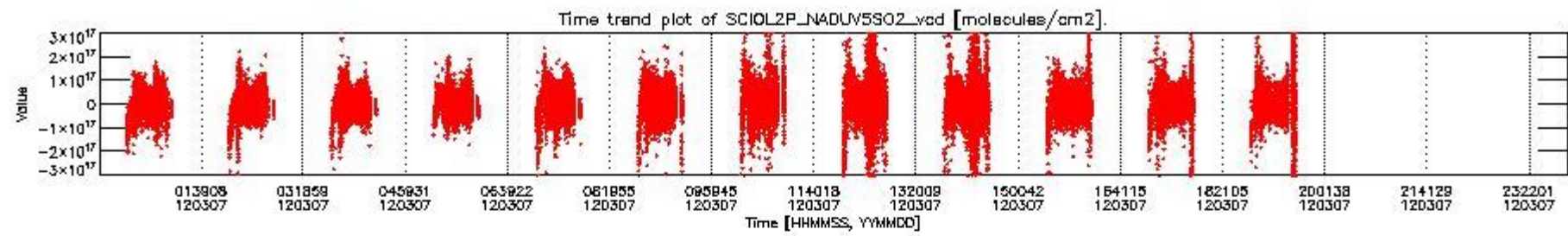
SCIOL2P_NADUV3BRO_amf_gr for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



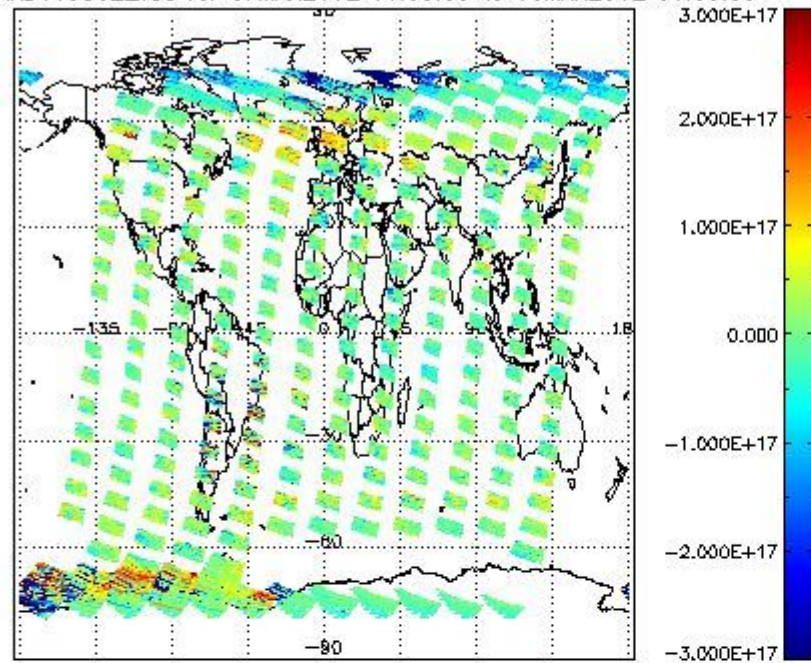
SCIOL2P_NADUV3BRO_amf_cl for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



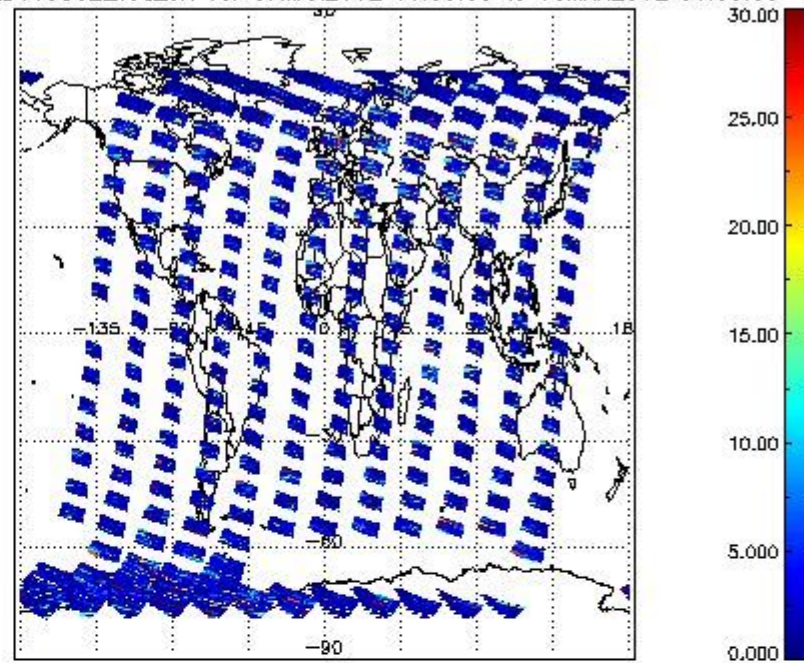
2.2.2.4 SO2 (UV5)



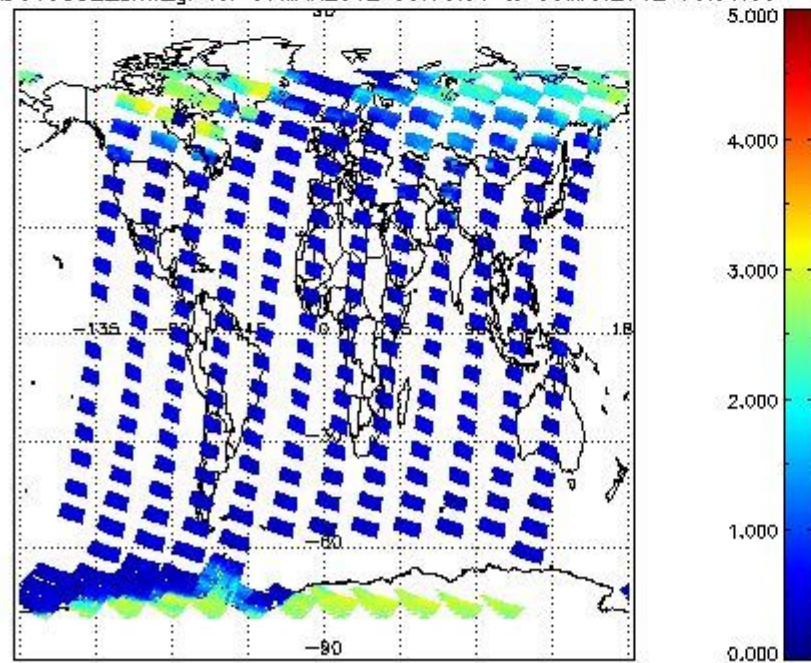
SCIOL2P_NADUV5SO2_vcd for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



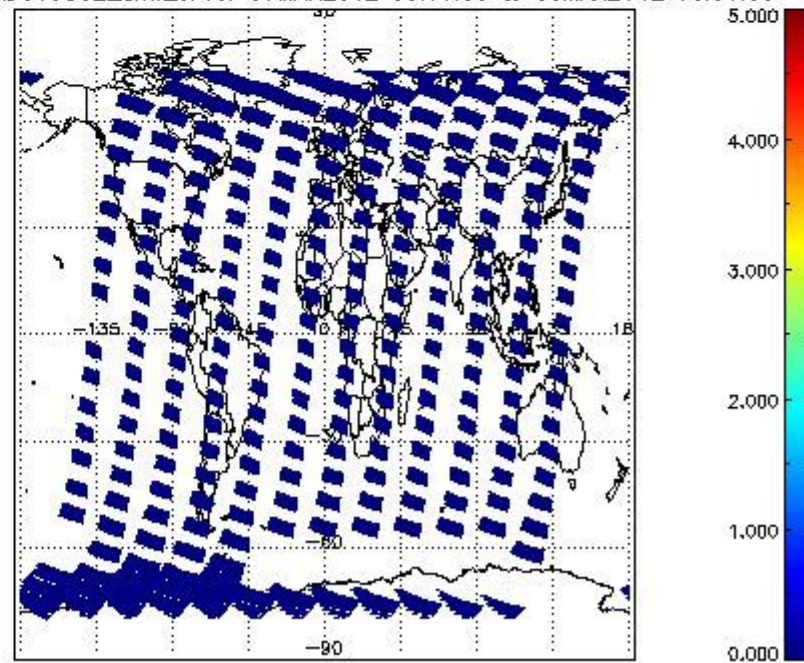
SCIOL2P_NADUV5SO2_vcd_err for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



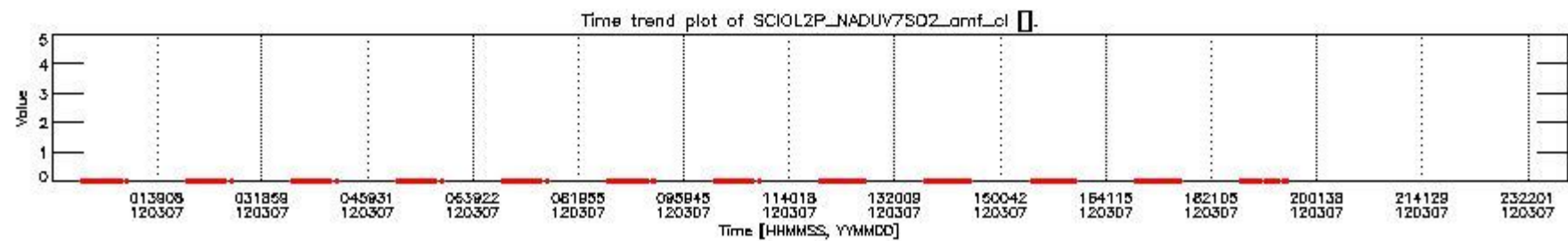
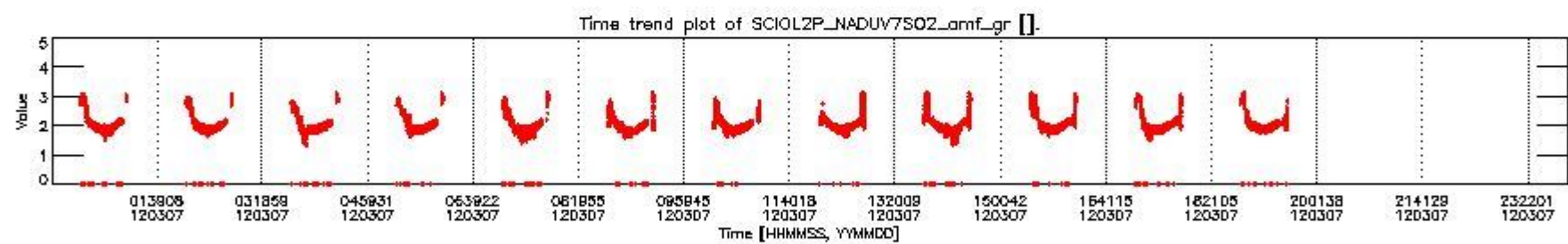
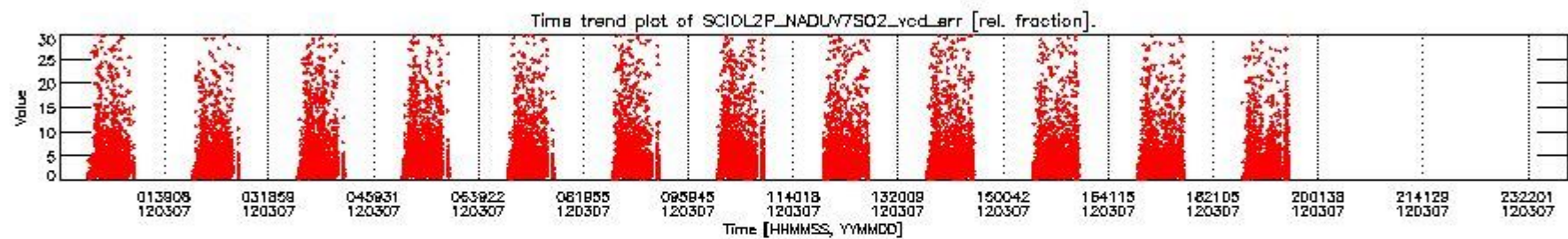
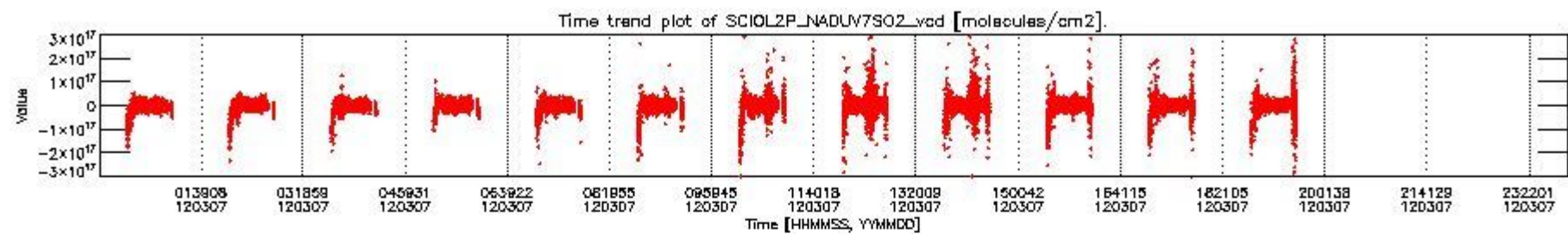
SCIOL2P_NADUV5SO2_amf_gr for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



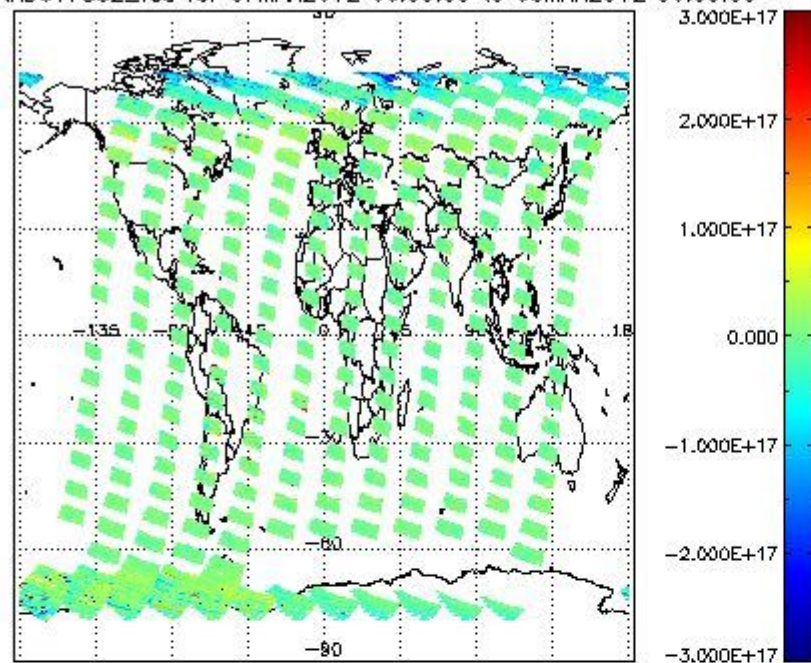
SCIOL2P_NADUV5SO2_amf_cl for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



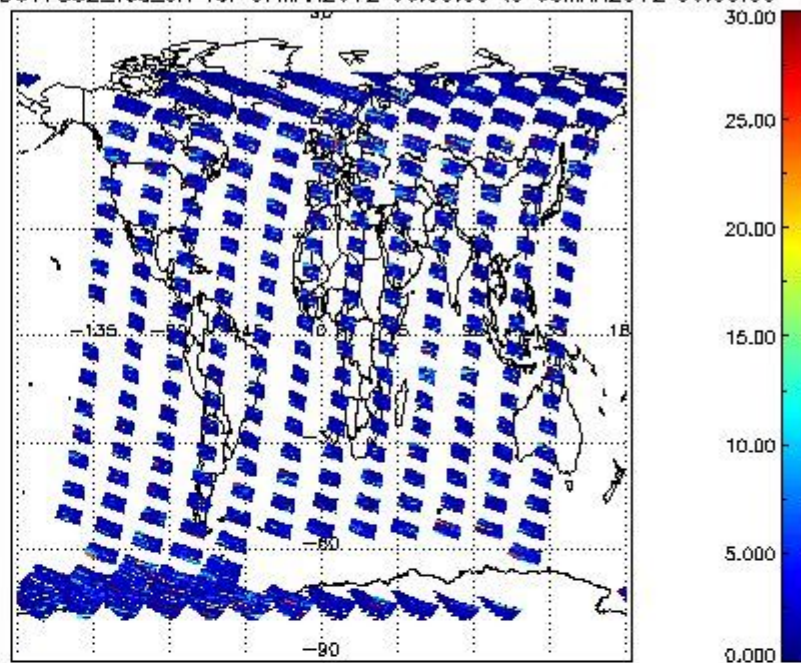
2.2.2.5 SO2 (UV7)



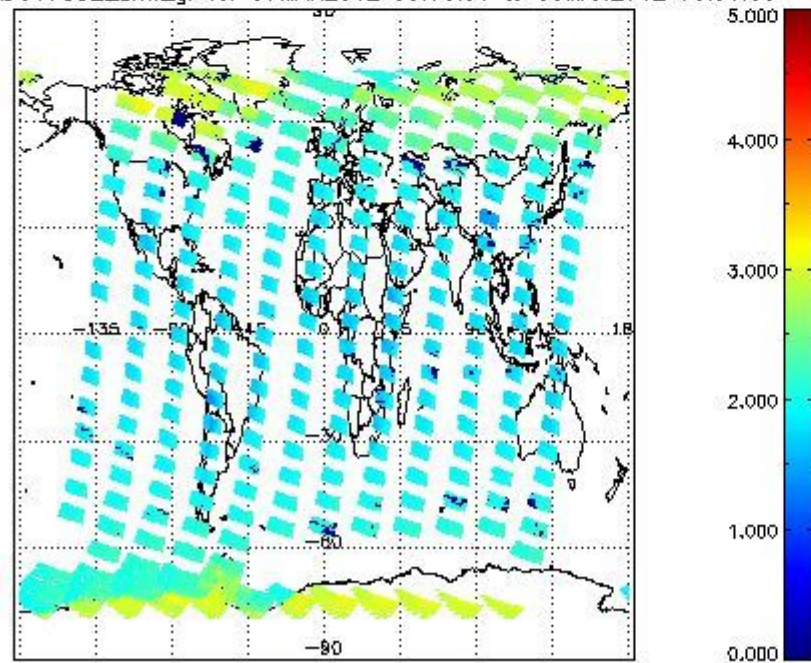
SCIOL2P_NADUV7S02_vcd for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



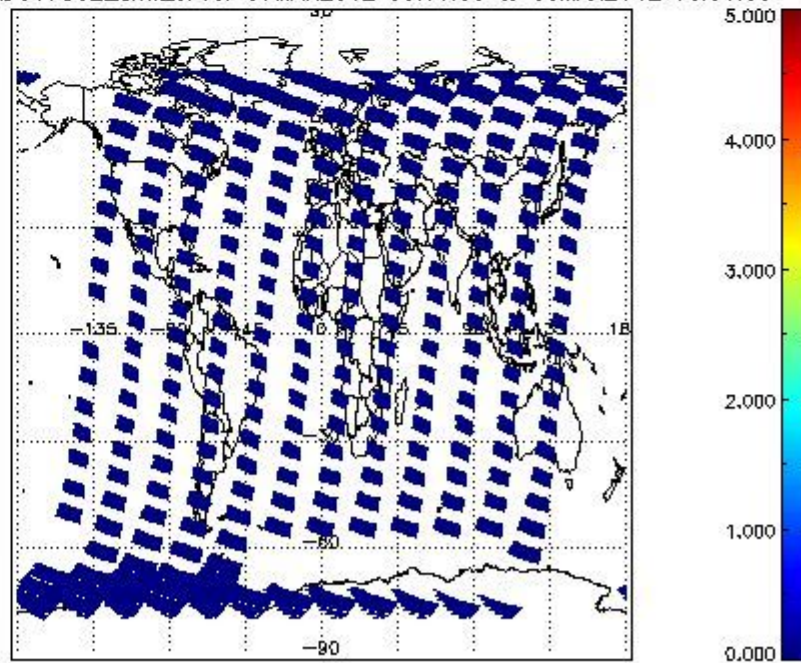
SCIOL2P_NADUV7S02_vcd_err for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



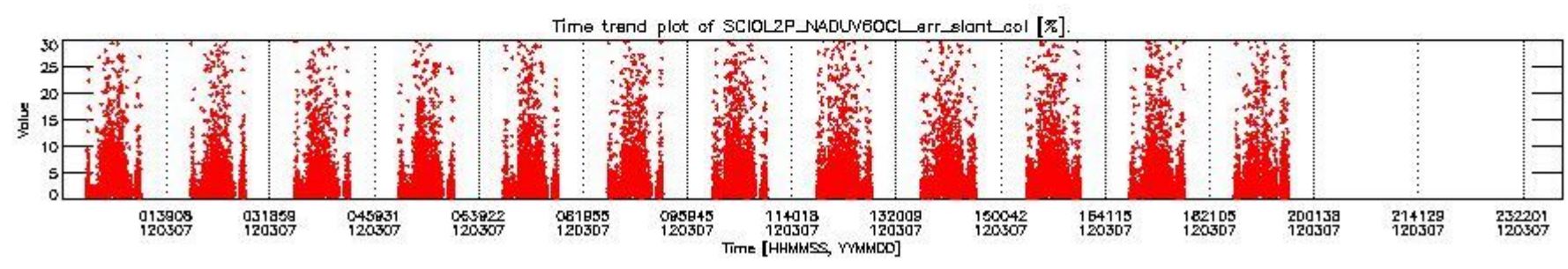
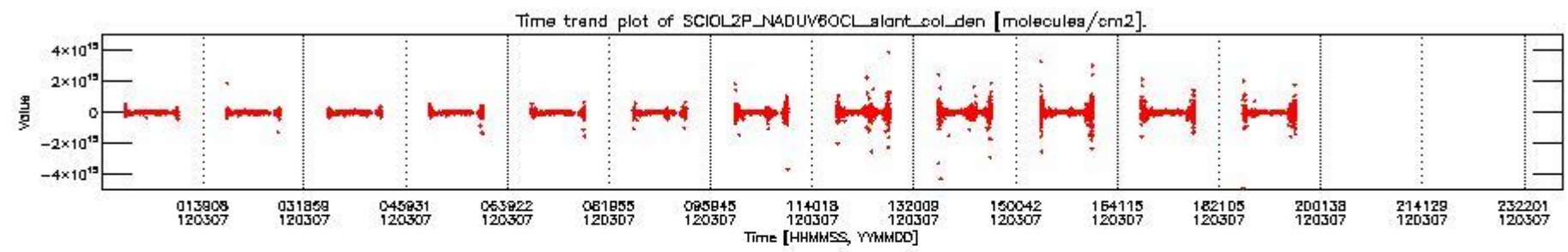
SCIOL2P_NADUV7S02_amf_gr for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



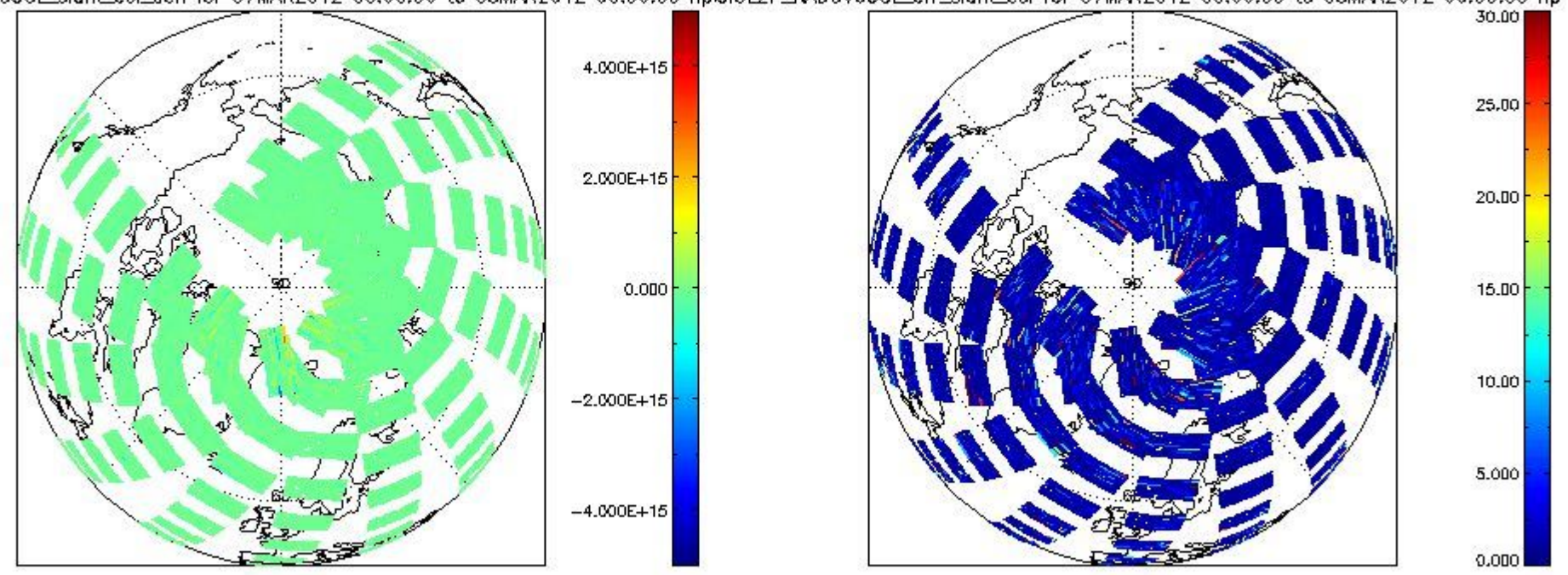
SCIOL2P_NADUV7S02_amf_cl for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



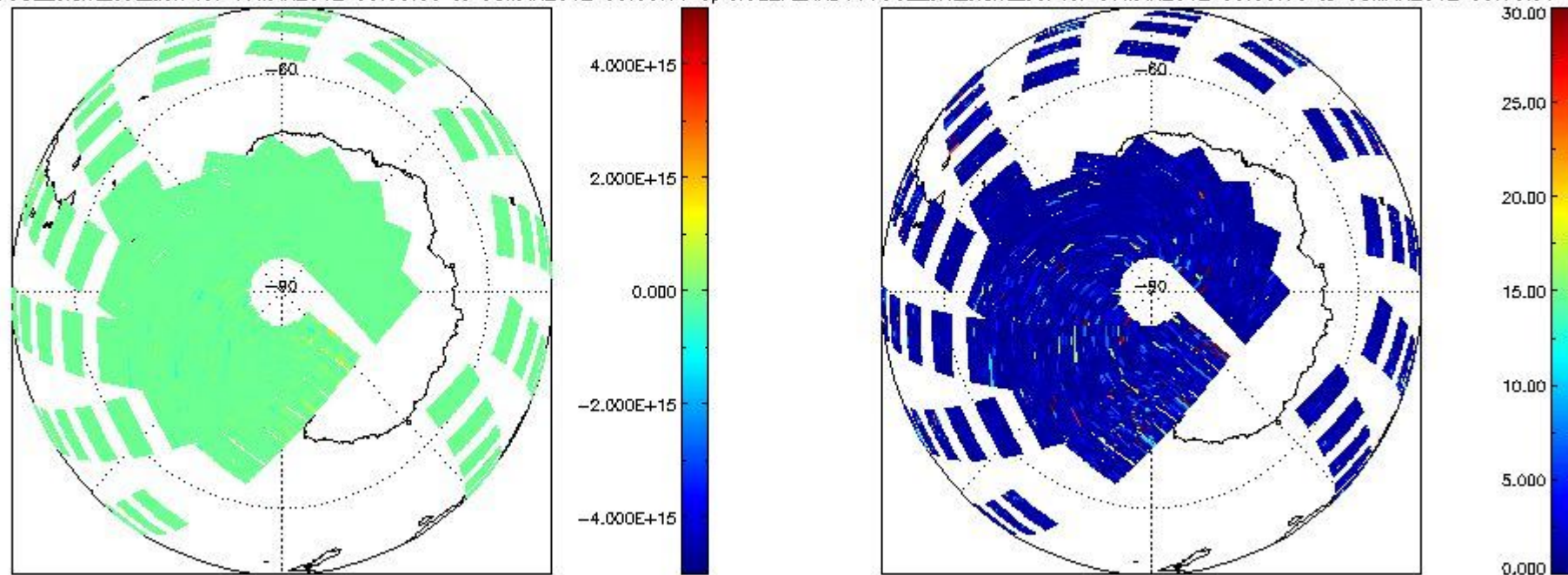
2.2.2.6 OCIO (UV6)



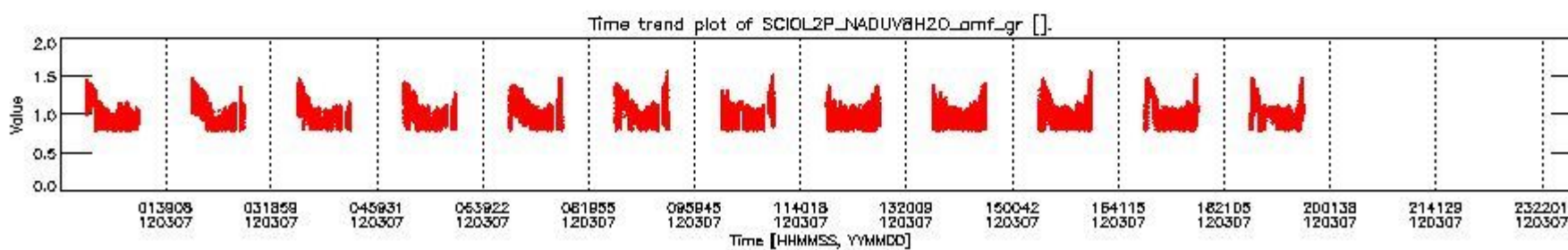
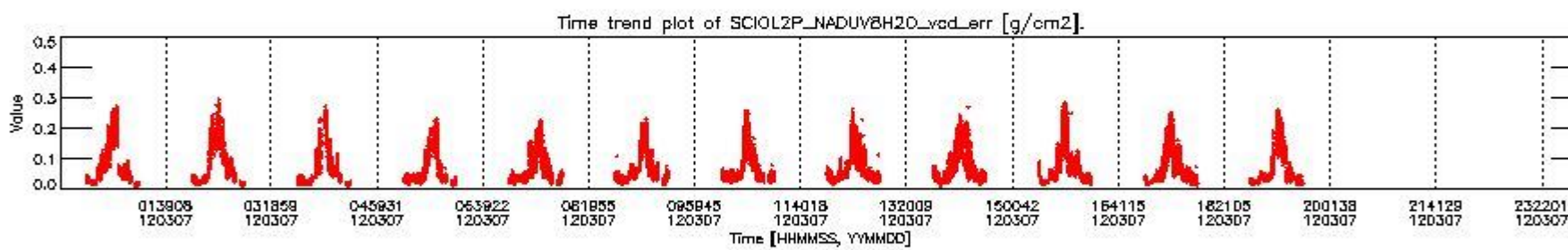
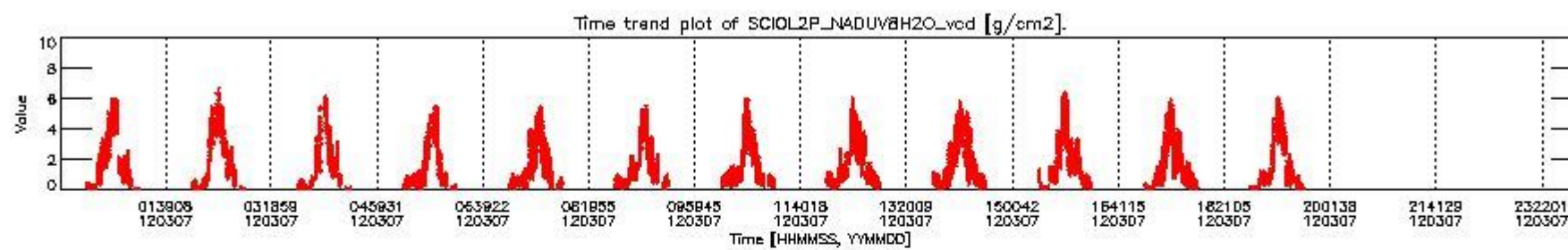
CIOL2P_NADUV6OCL_slant_col_den for 07MAR2012 00:00:00 to 08MAR2012 00:00:00 npCIOL2P_NADUV6OCL_err_slant_col for 07MAR2012 00:00:00 to 08MAR2012 00:00:00 np



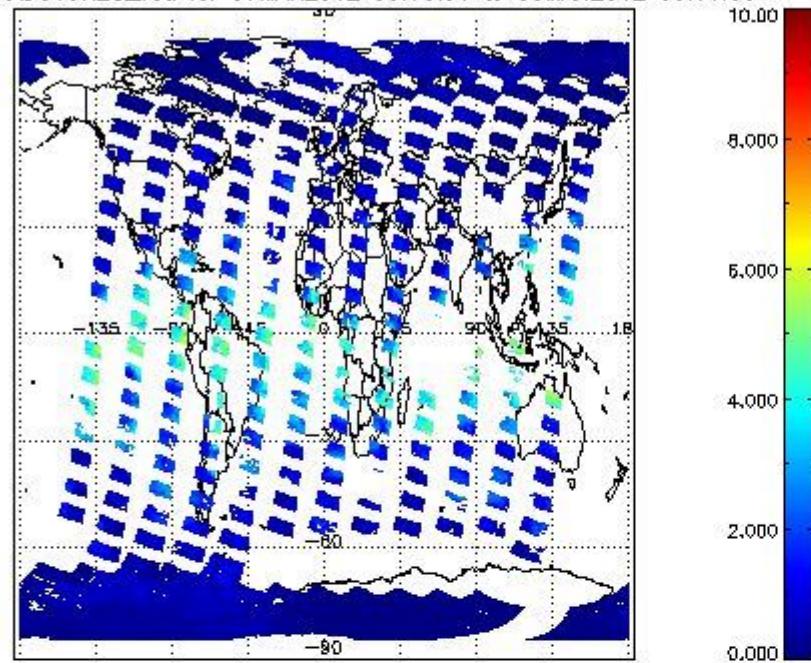
CIOL2P_NADUV6OCL_slant_coLden for 07MAR2012 00:00:00 to 08MAR2012 00:00:00 spCIOL2P_NADUV6OCL_err_slant_col for 07MAR2012 00:00:00 to 08MAR2012 00:00:00 sp



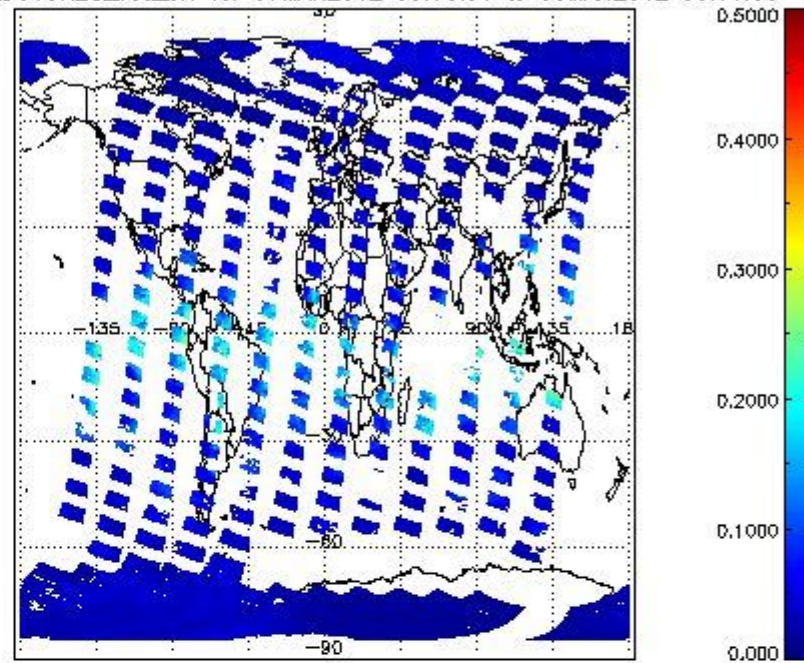
2.2.2.7 H2O (UV8)



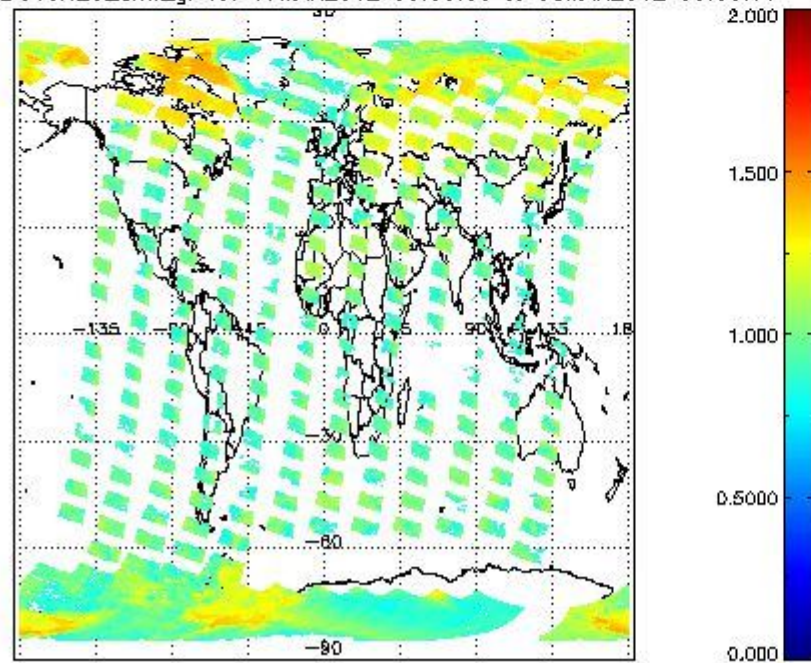
SCIOL2P_NADUV8H2O_vcd for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

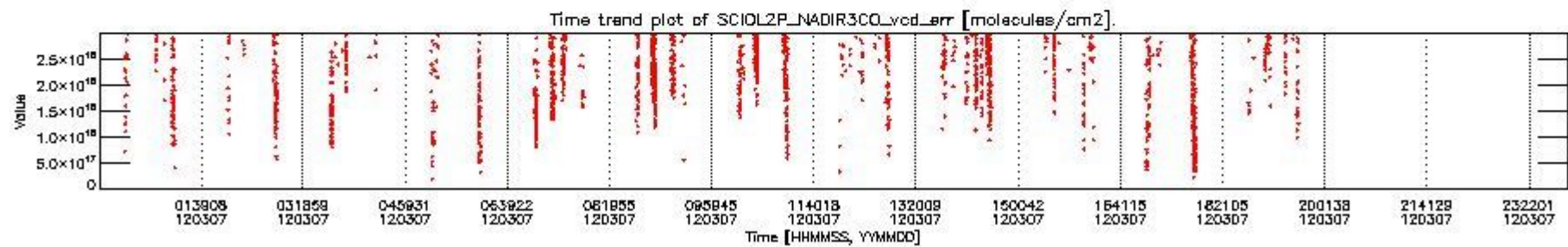
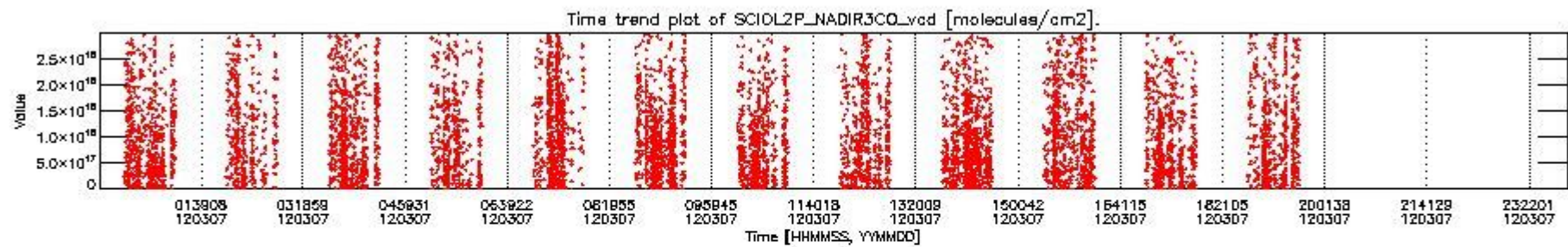


SCIOL2P_NADUV8H2O_vcd_err for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

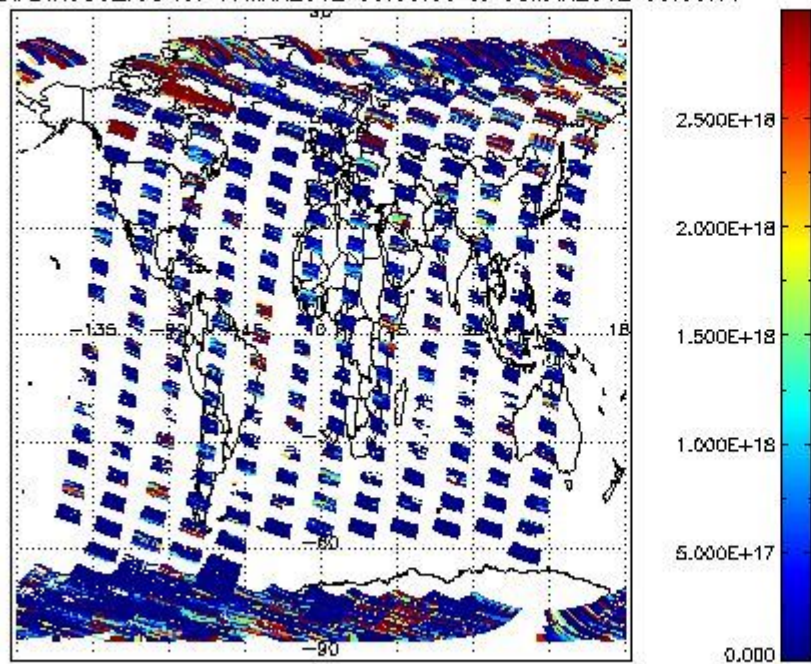


SCIOL2P_NADUV8H2O_amb_gr for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

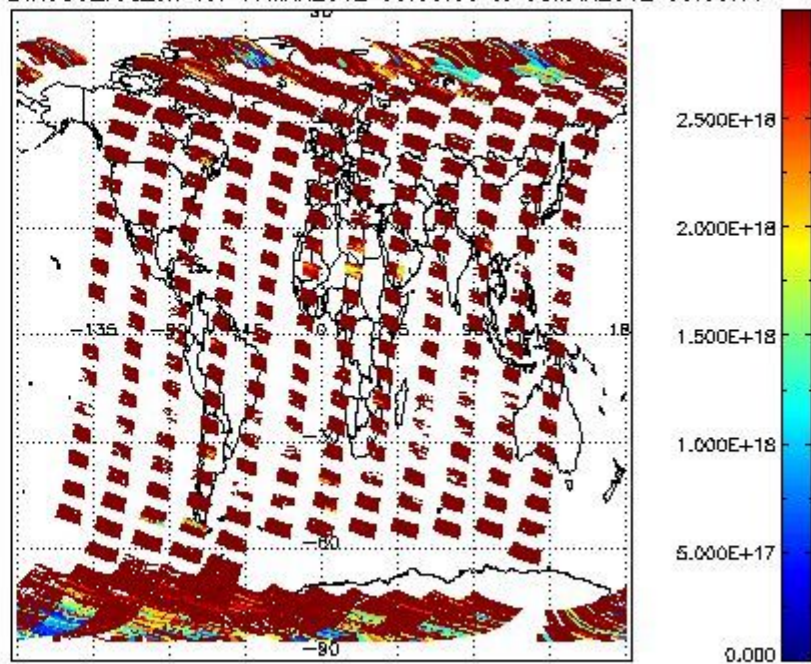




SCIDL2P_NADIR3CO_vcd for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



SCIDL2P_NADIR3CO_vcd_err for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



2.2.3 Limb

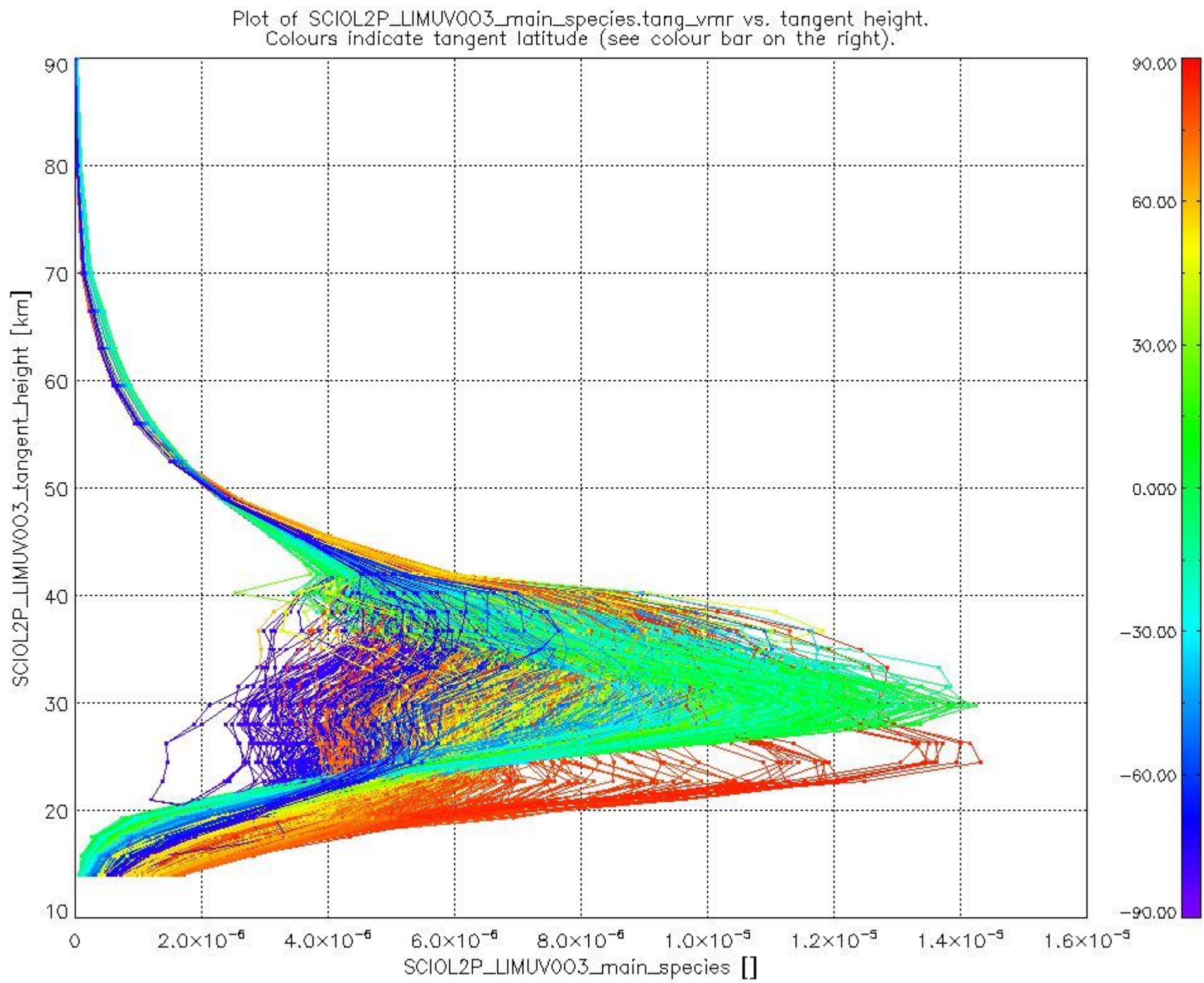
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

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

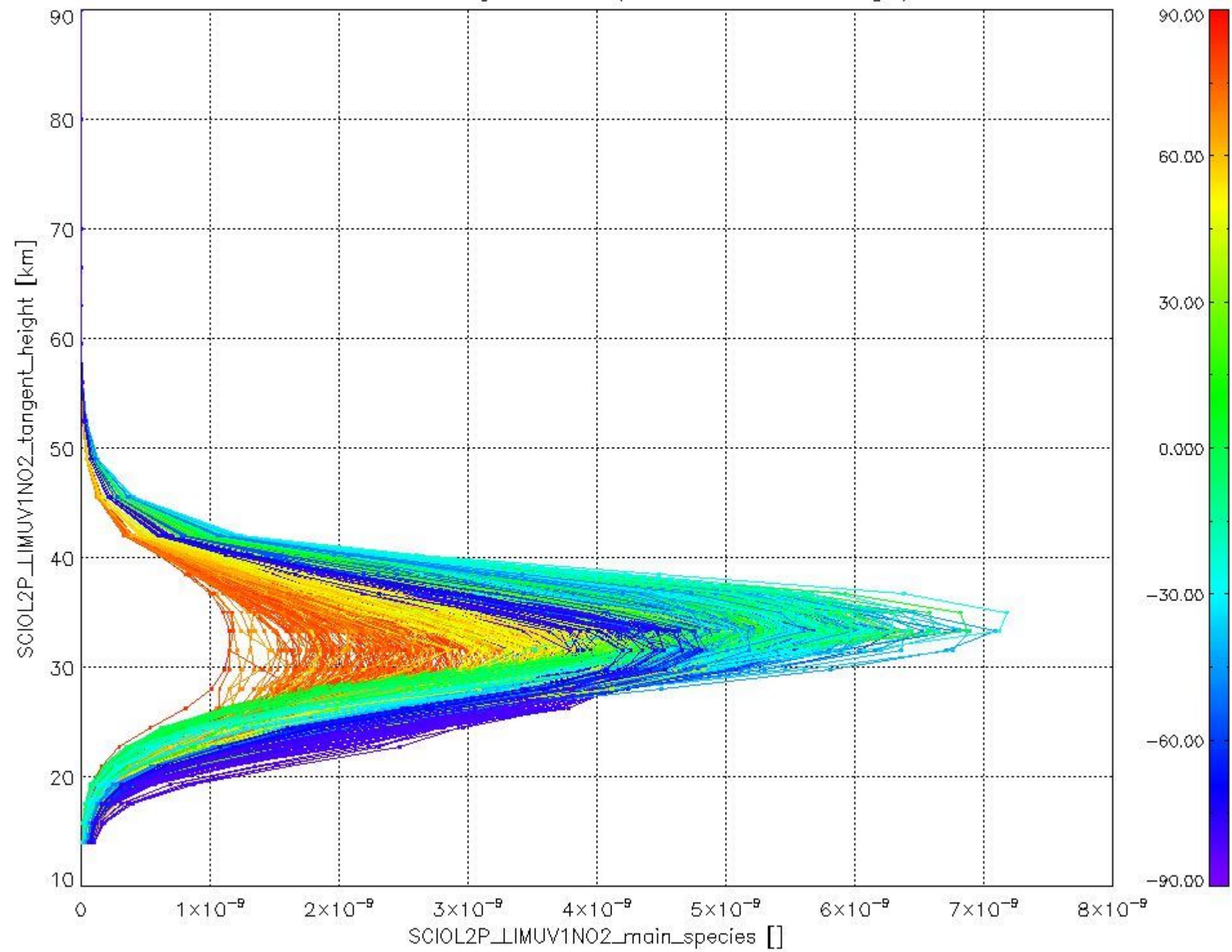
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



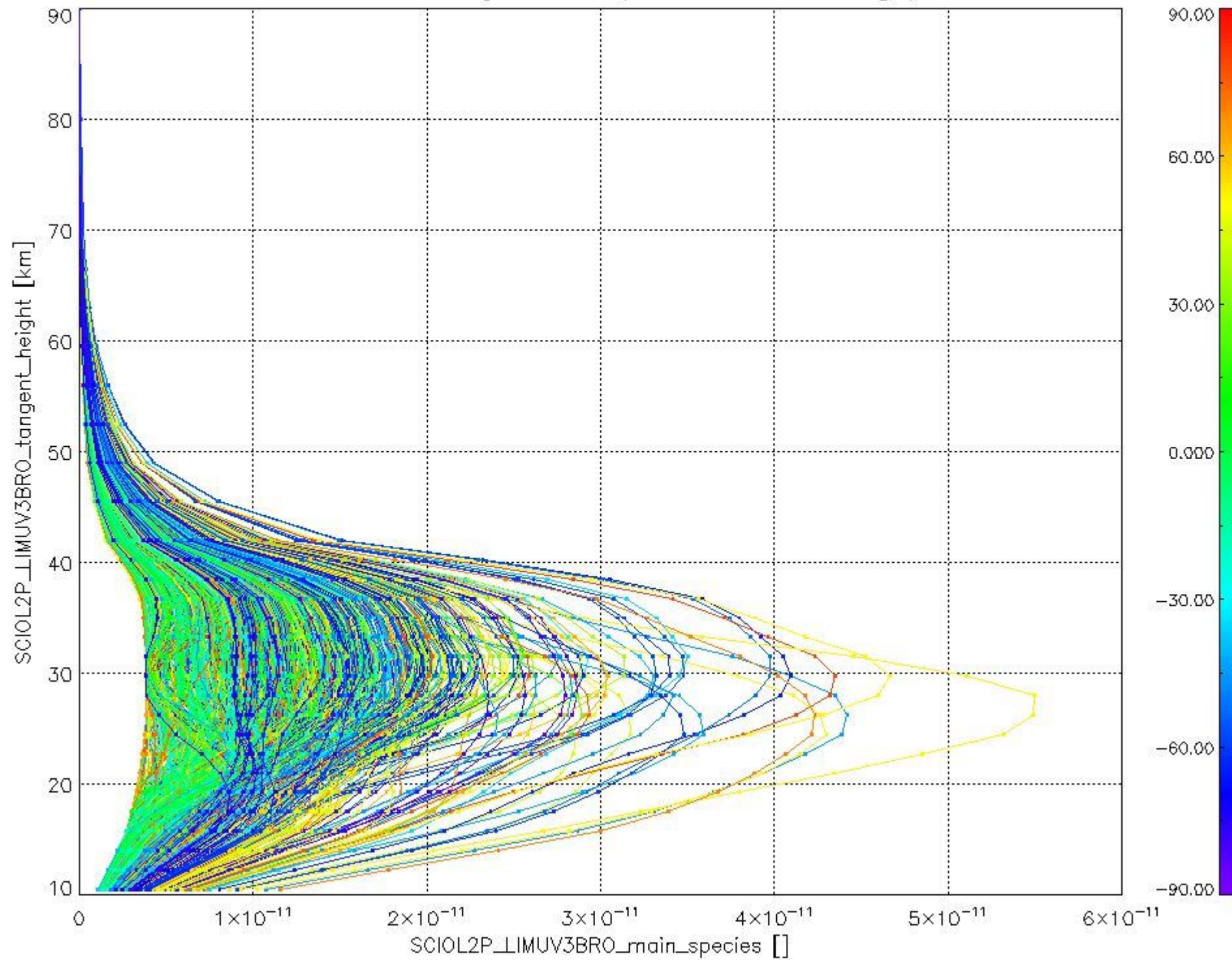
2.2.3.2 NO2 (UV1)

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)

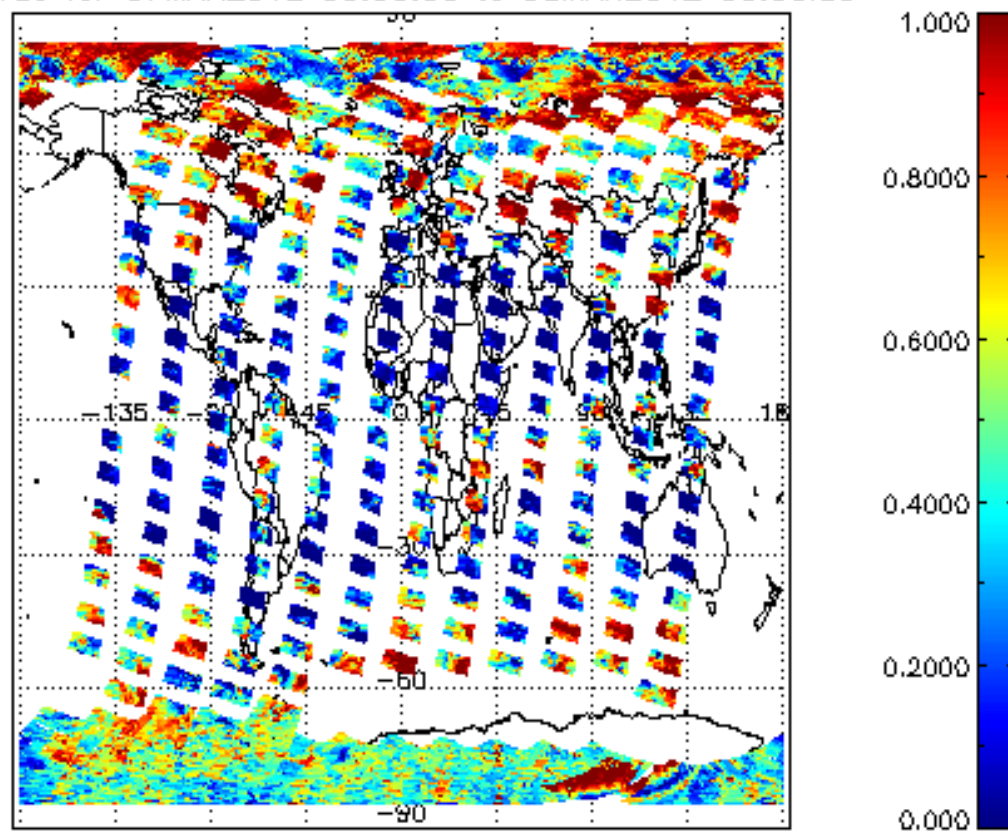
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



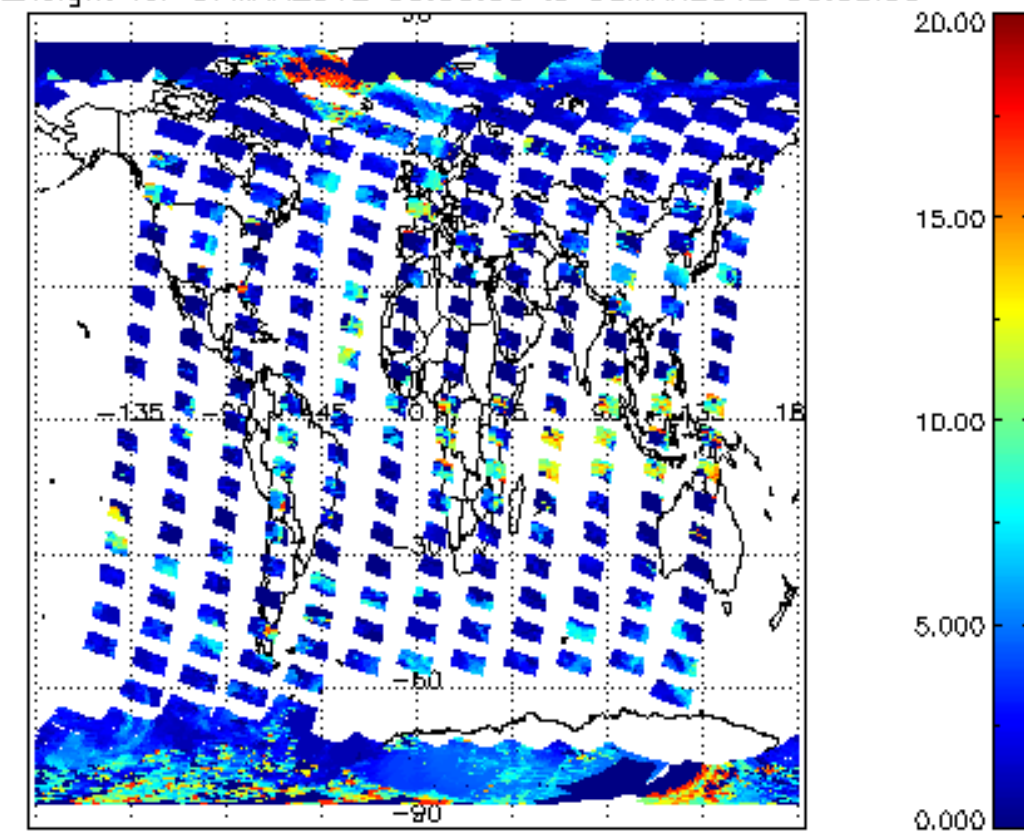
2.3 ADF monitoring

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_AXVIEC20120306_135027_20120306_183937_20120308_183937
3	SCI_MF1_AXVIEC20120306_135132_20120307_180251_20120309_180251

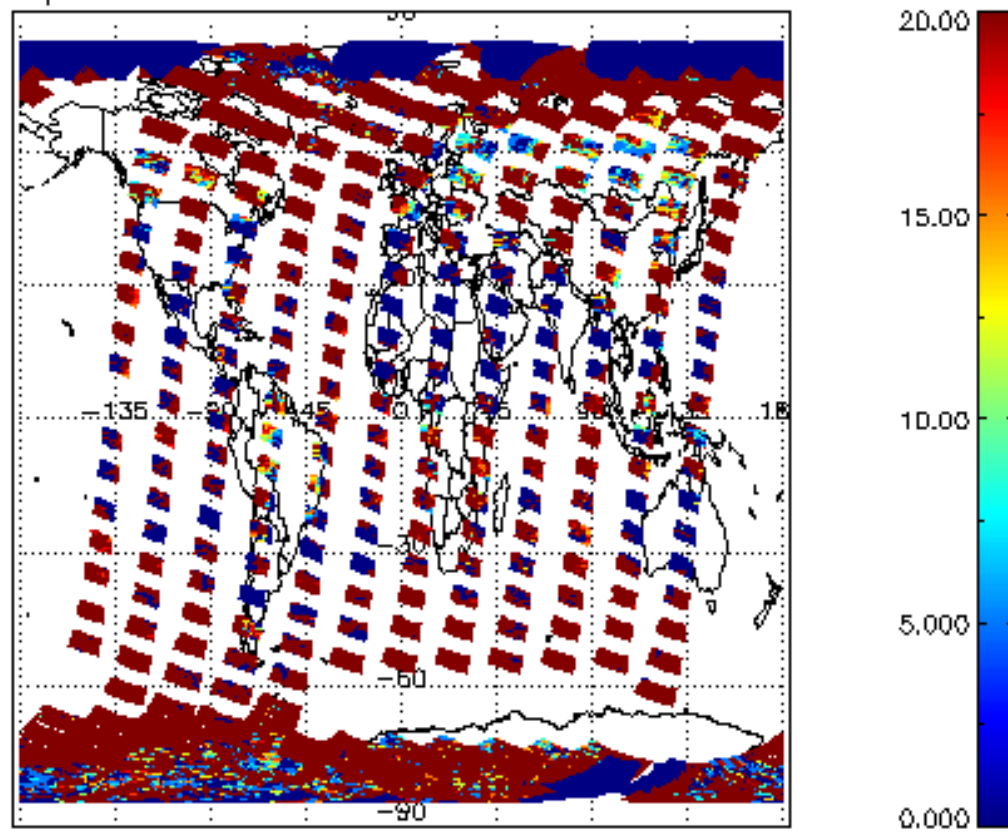
cL_frac for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



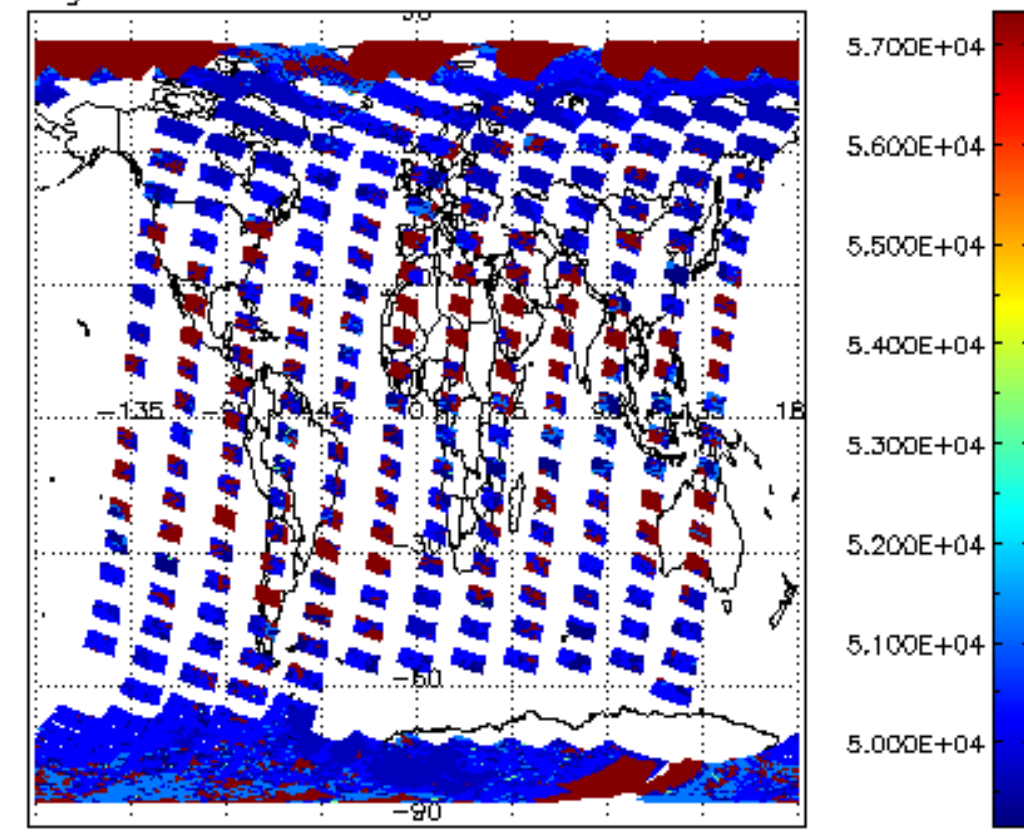
cL_top_height for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

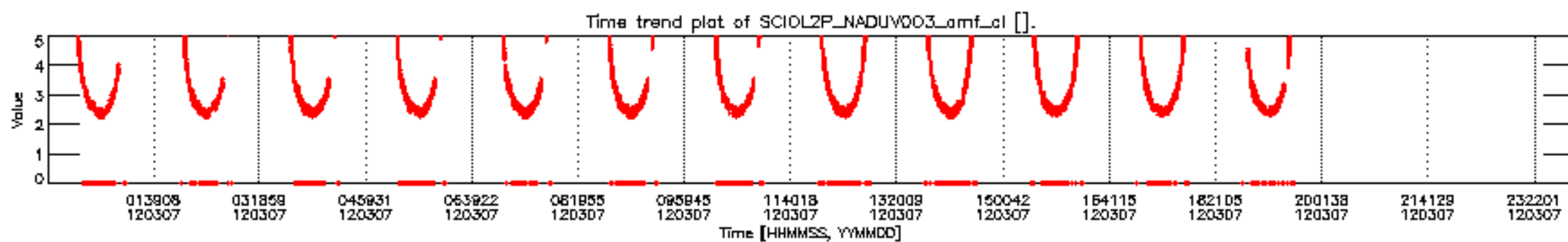
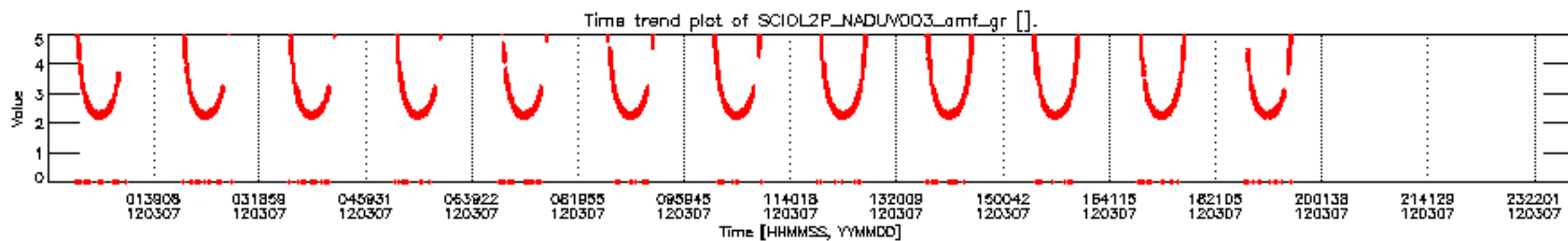
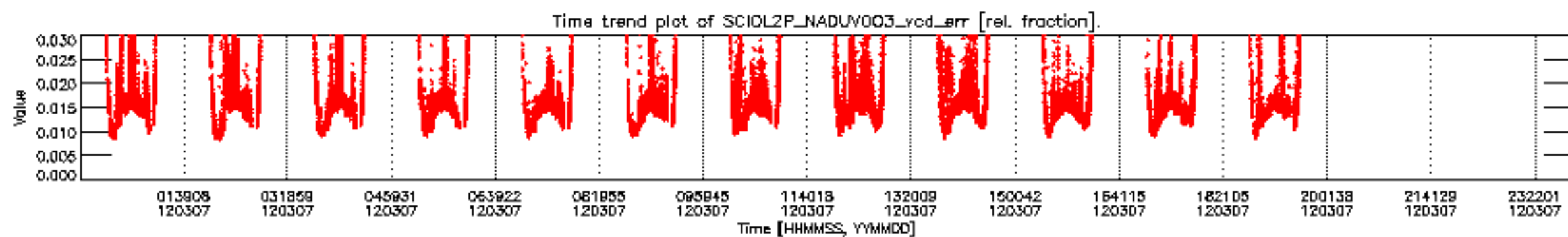
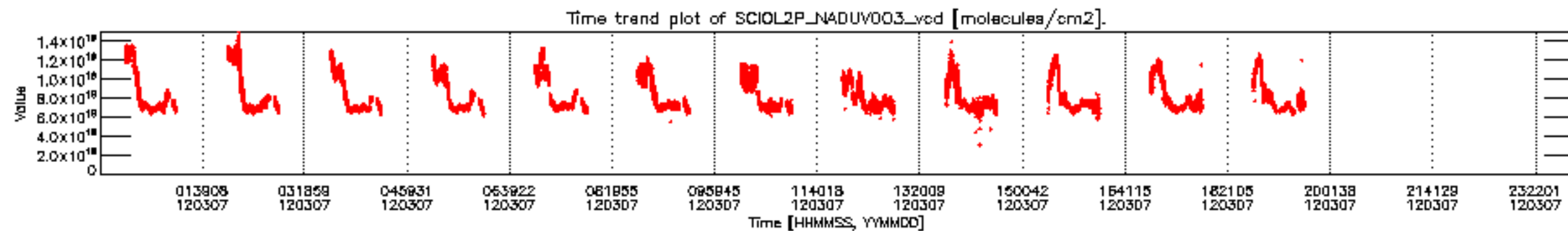


cL_opt_depth for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

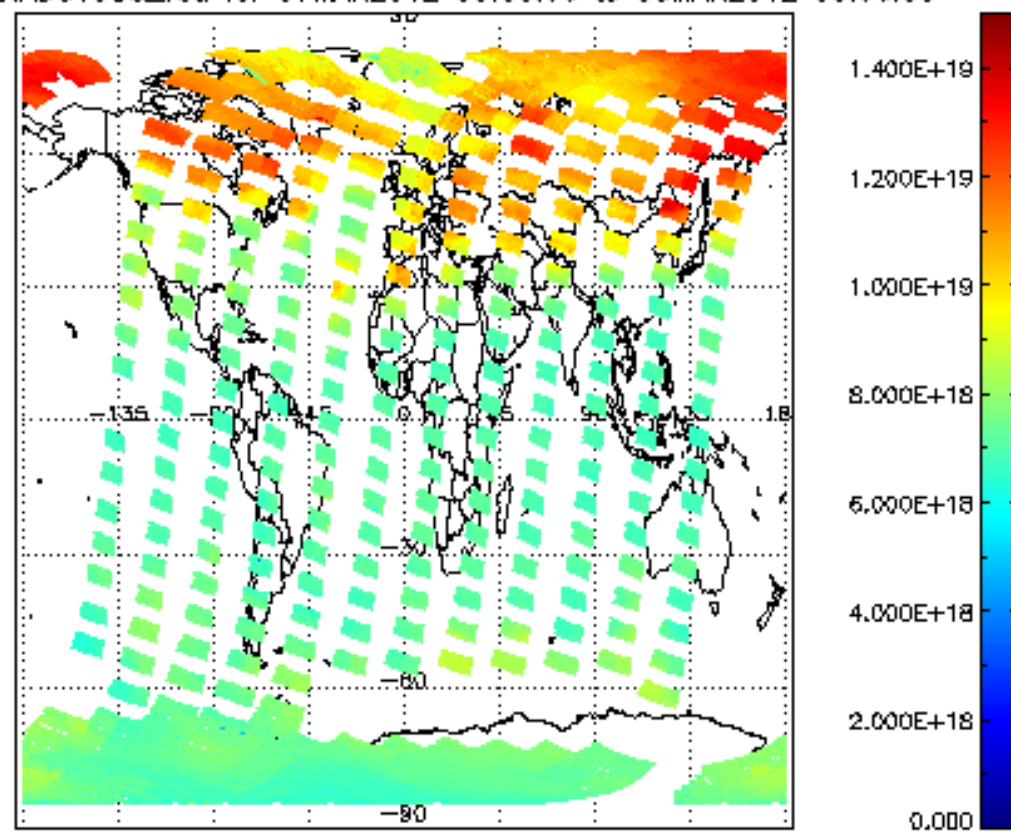


cloud_flags for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

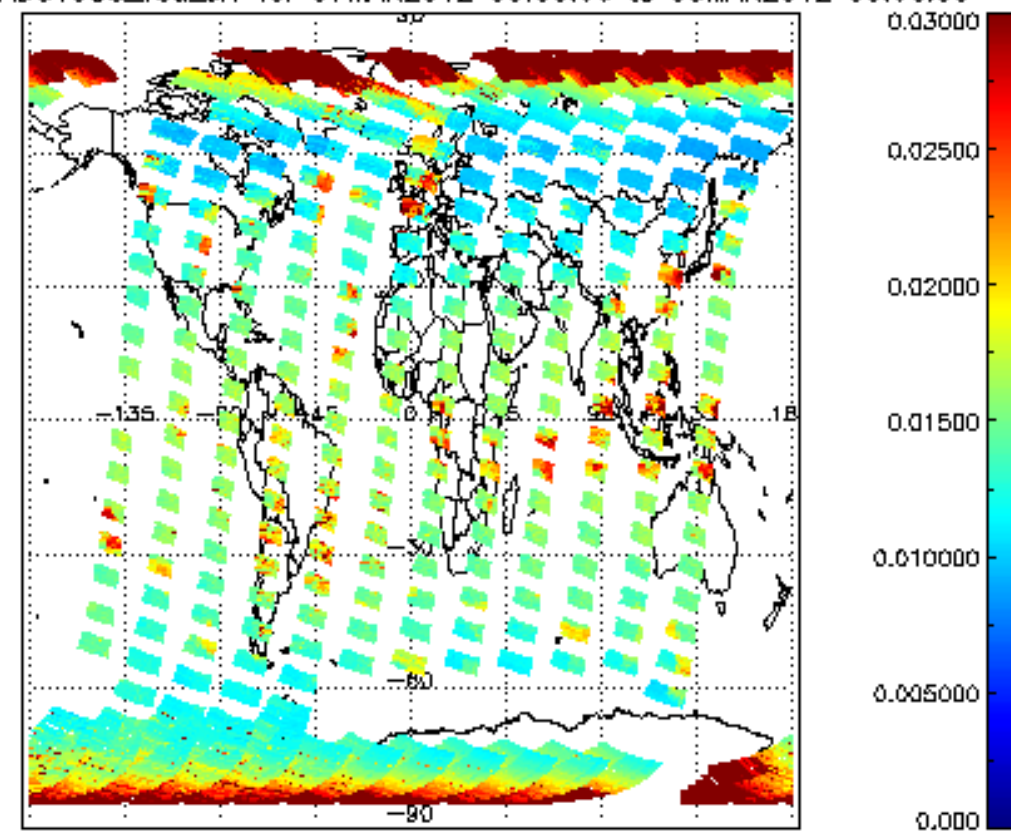




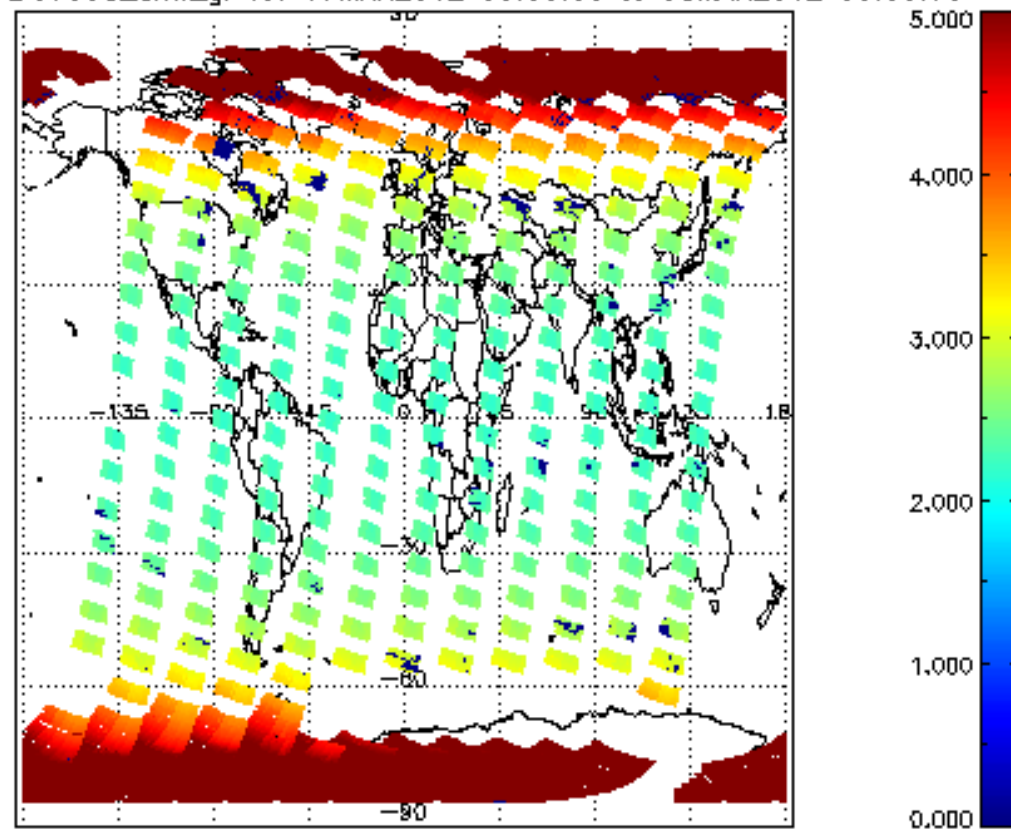
SCIOL2P_NADUV003_vcd for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



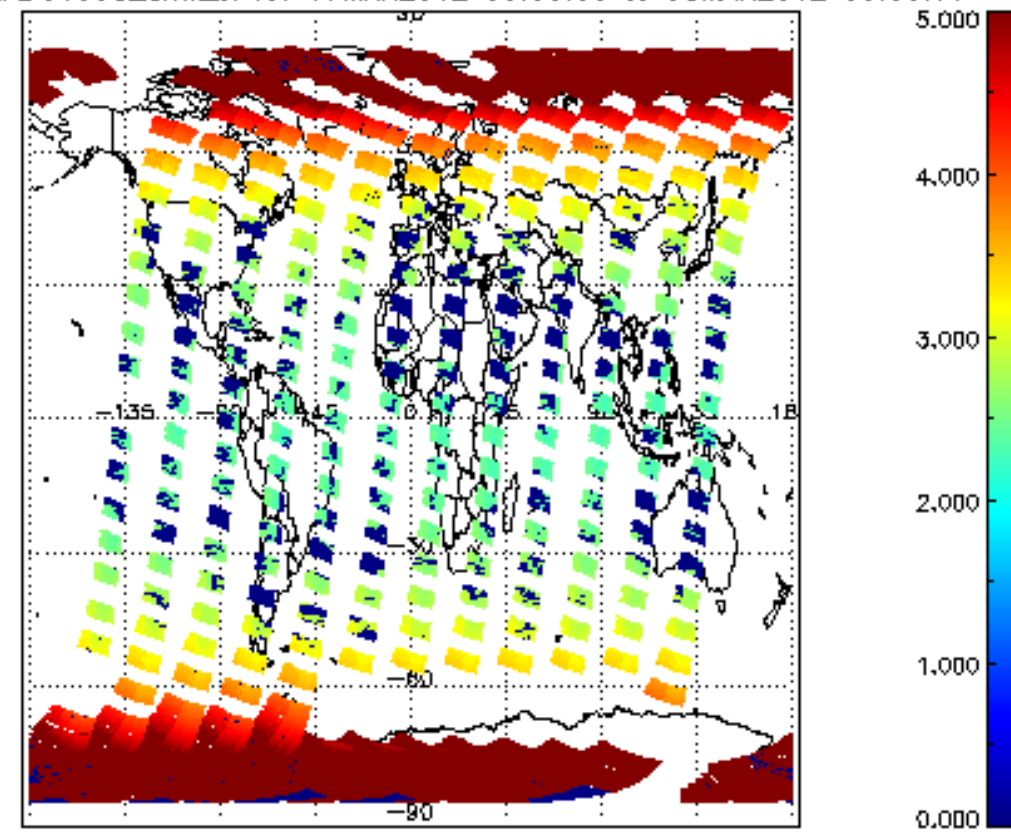
SCIOL2P_NADUV003_vcd_err for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

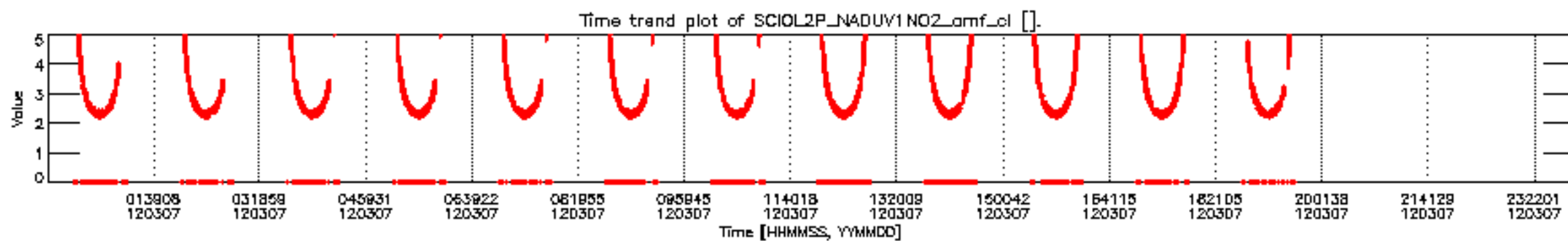
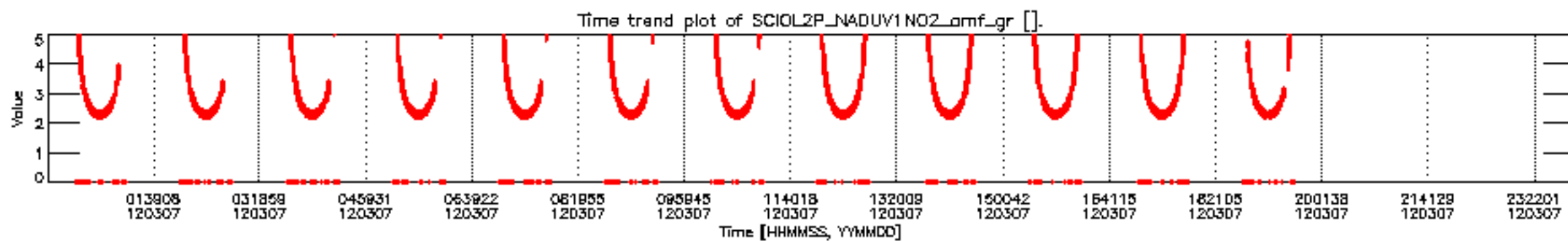
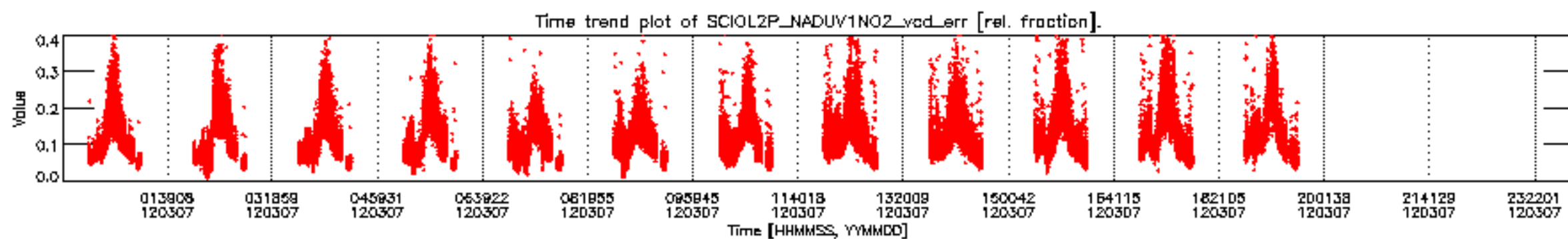
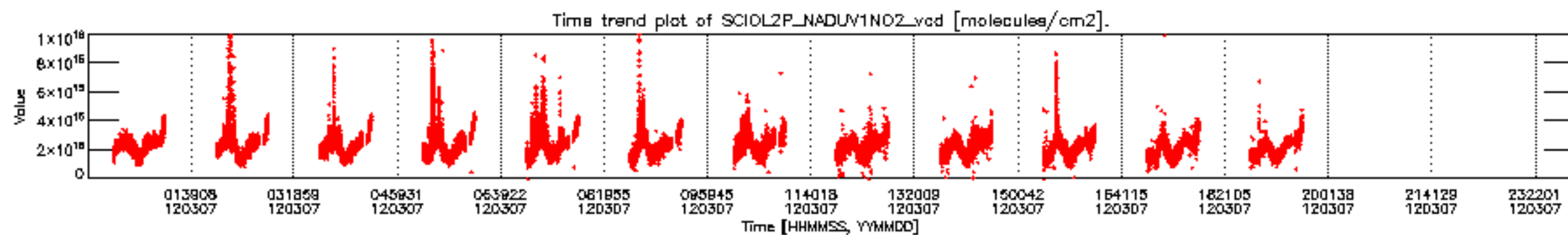


SCIOL2P_NADUV003_arnf_gr for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

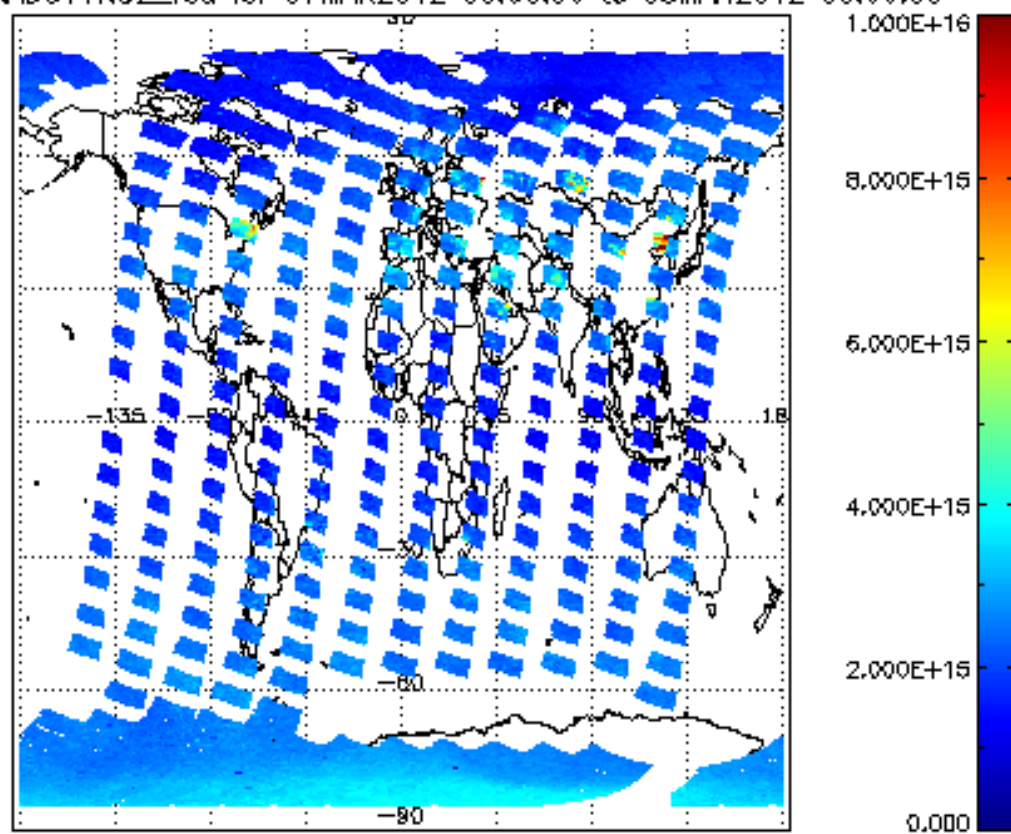


SCIOL2P_NADUV003_arnf_cl for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

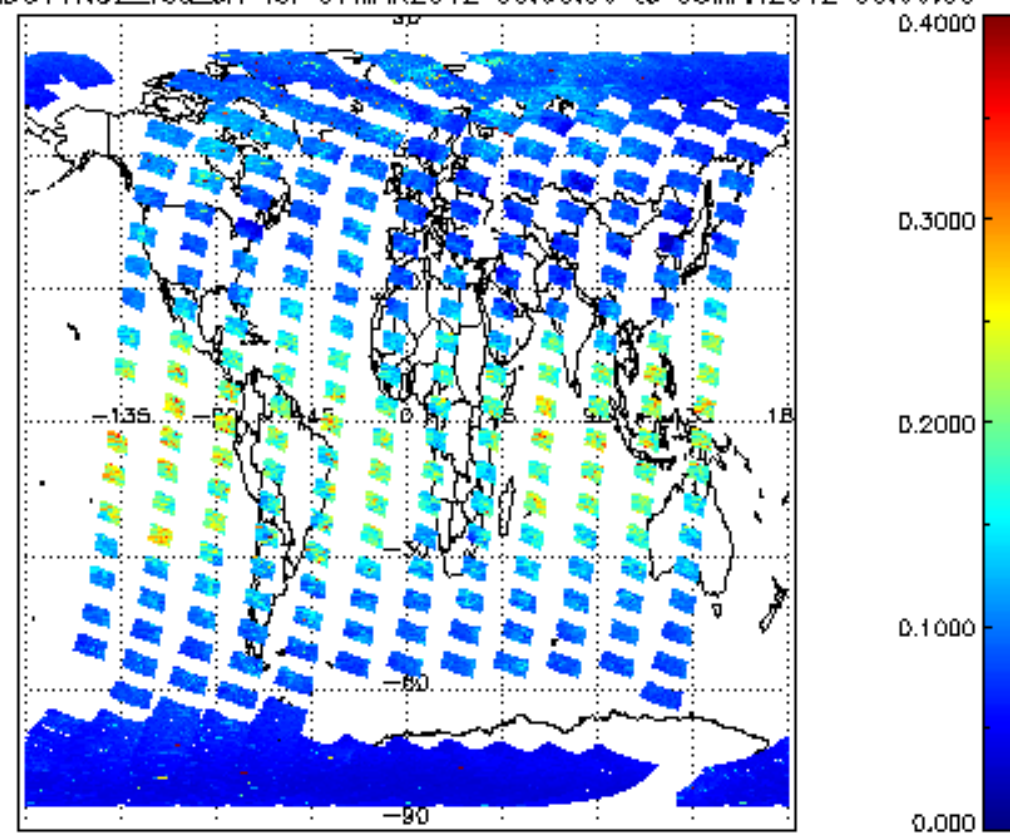




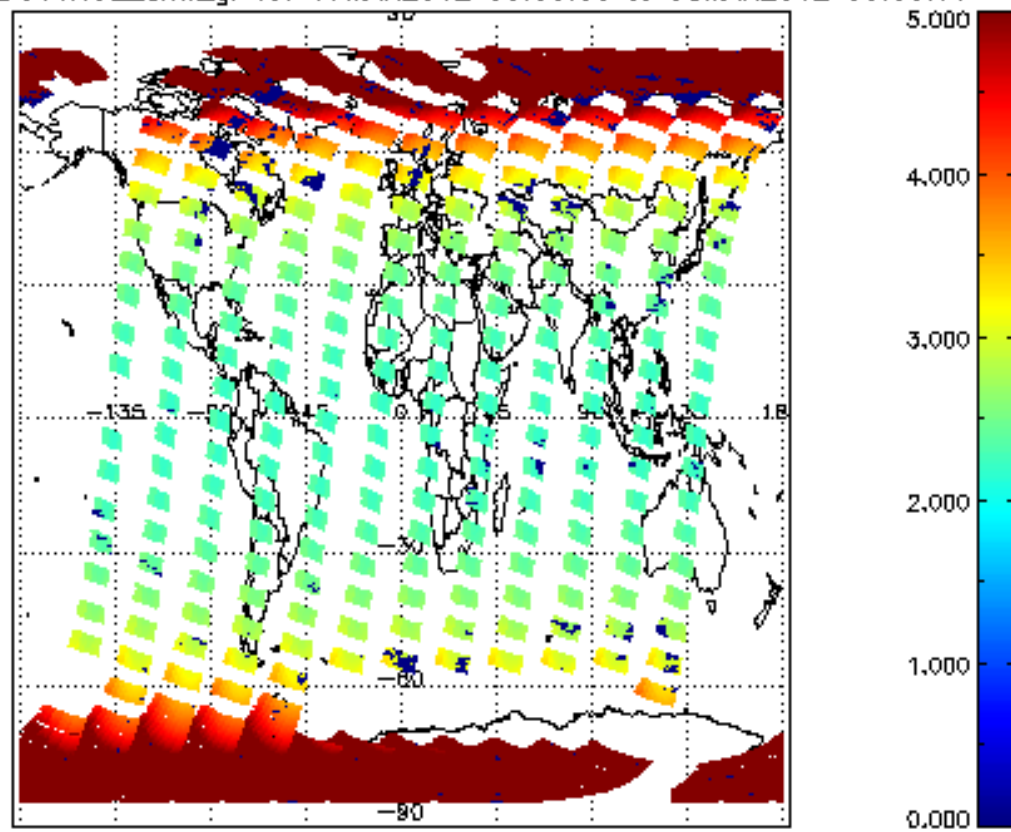
SCIOL2P_NADUV1NO2_vcd for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



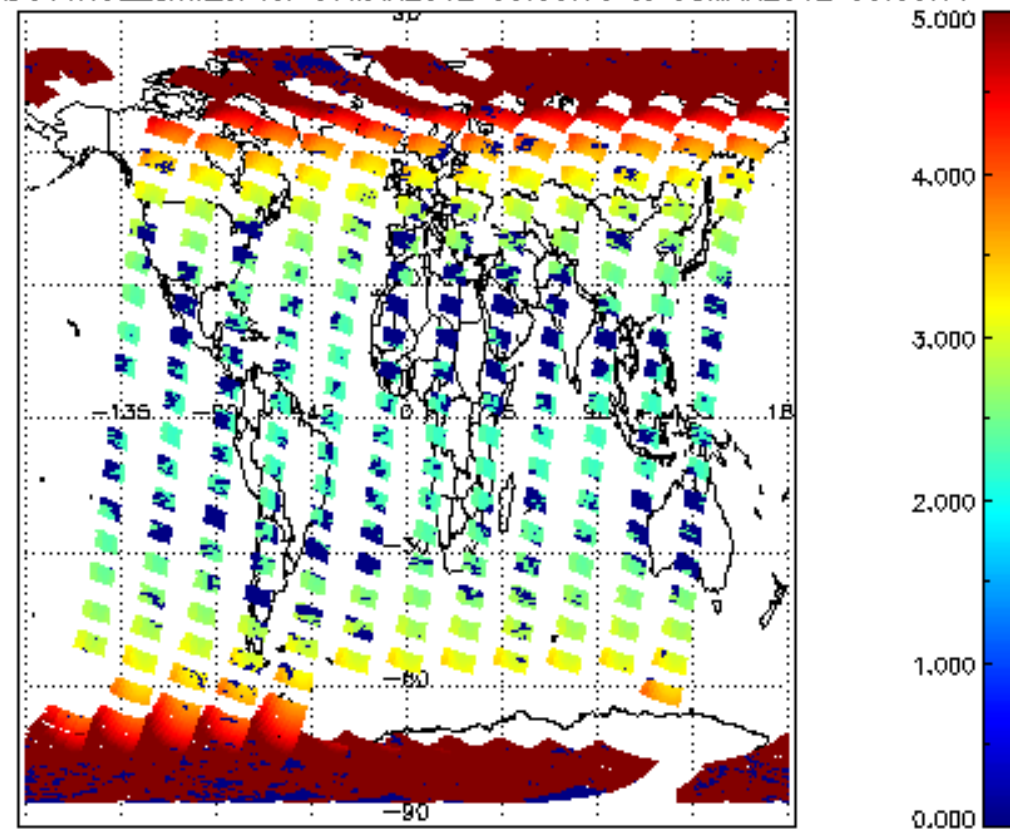
SCIOL2P_NADUV1NO2_vcd_err for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

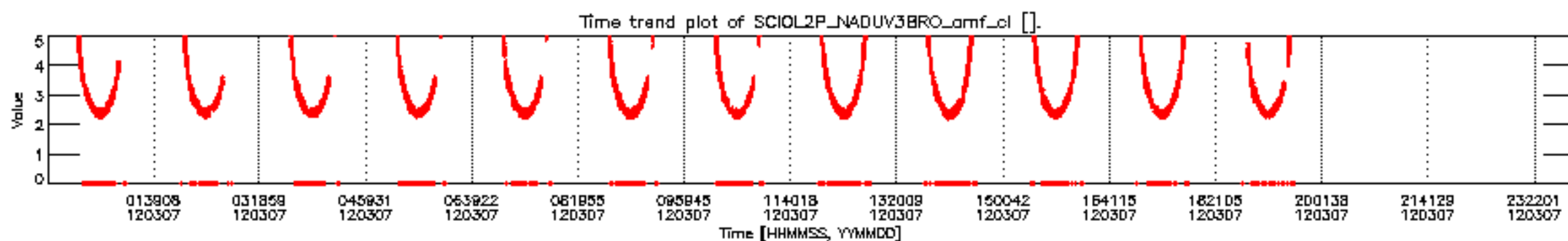
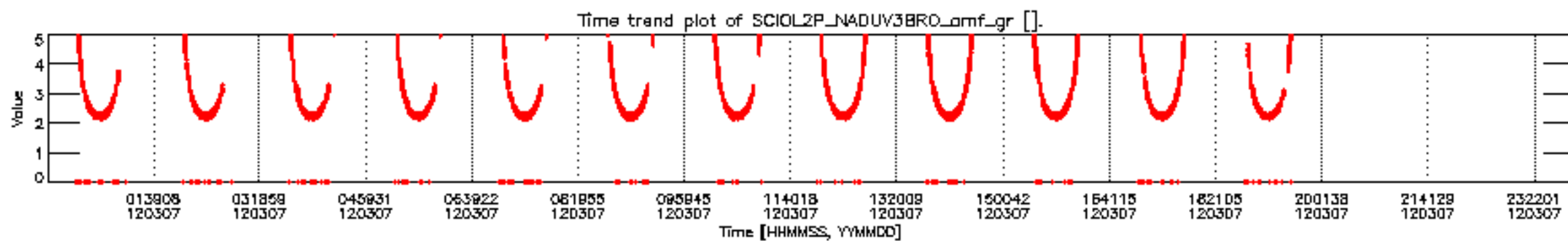
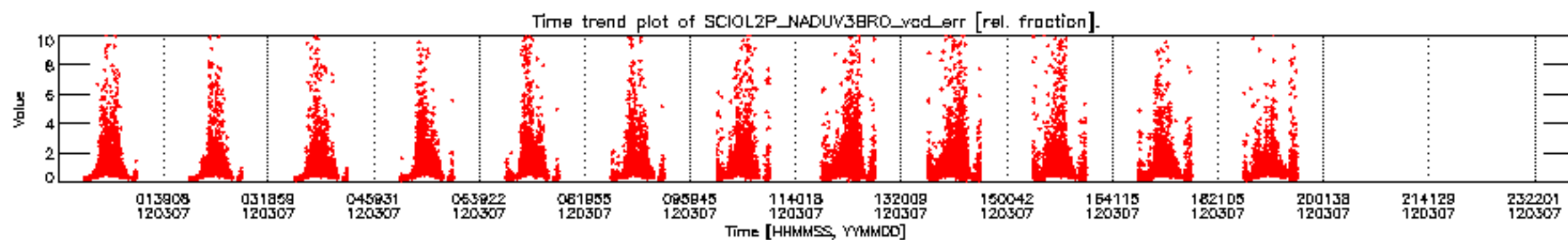
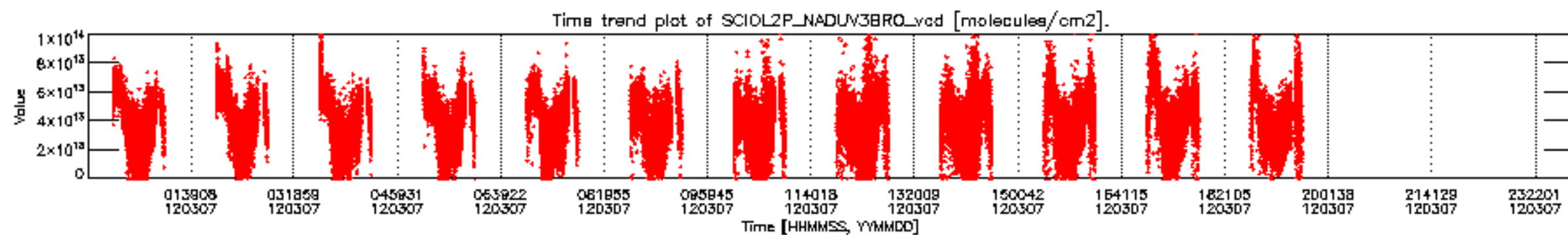


SCIOL2P_NADUV1NO2_amf_gr for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

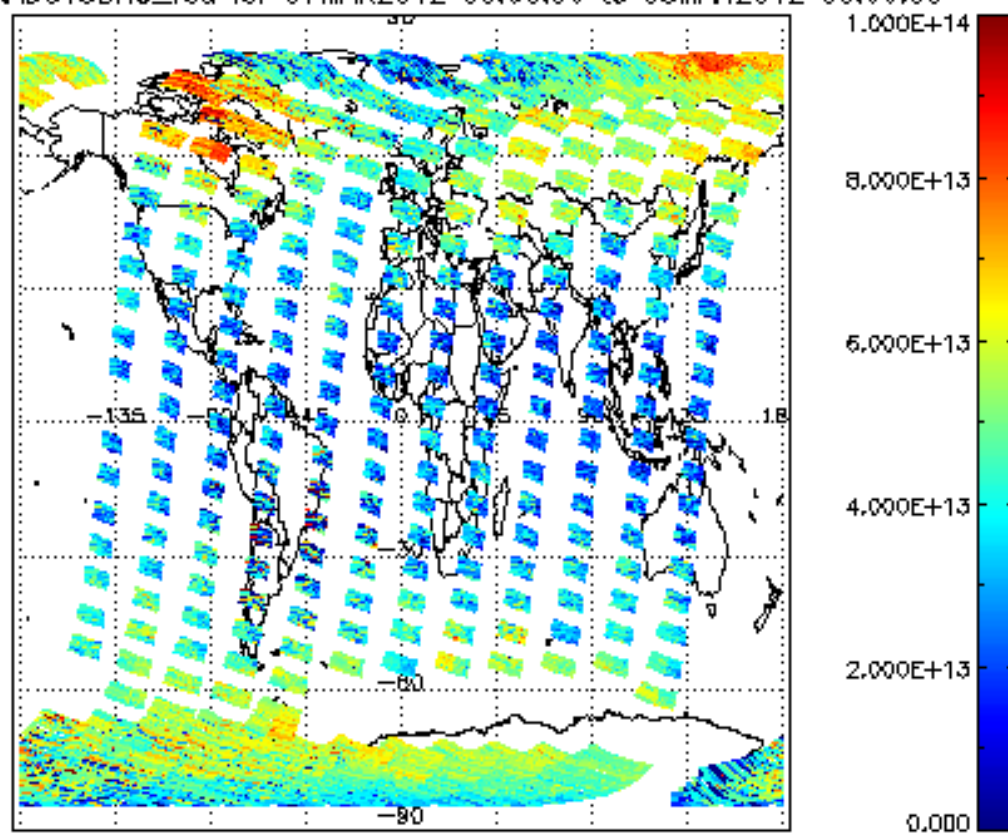


SCIOL2P_NADUV1NO2_amf_cl for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

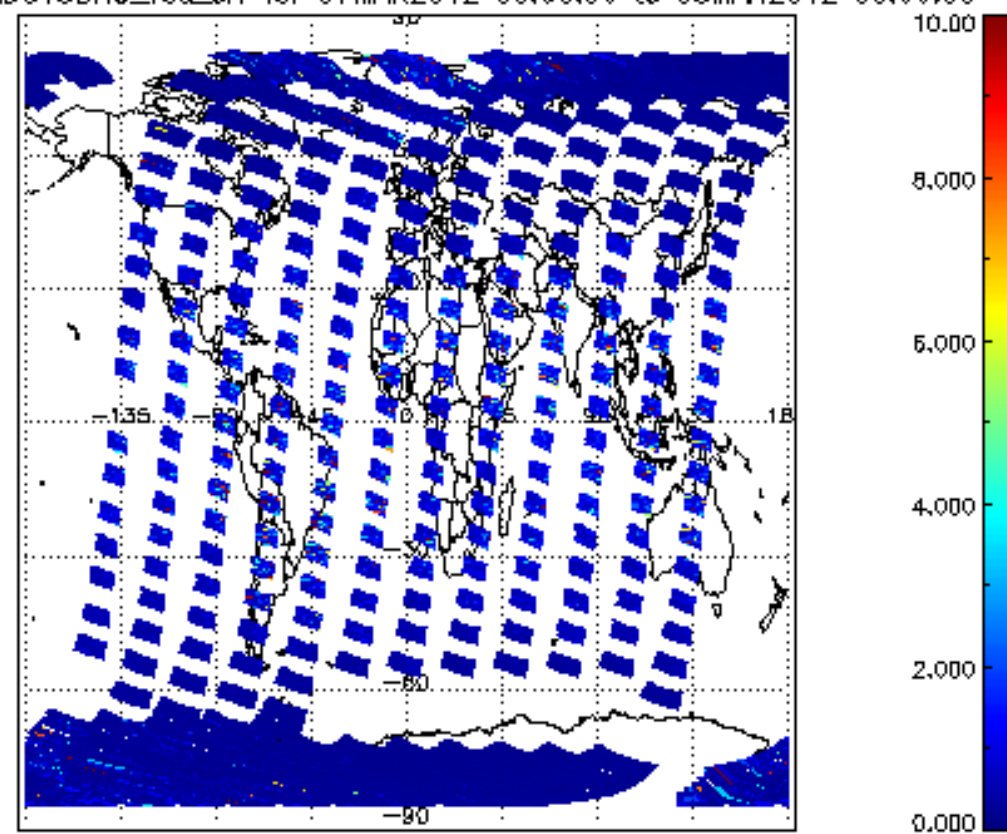




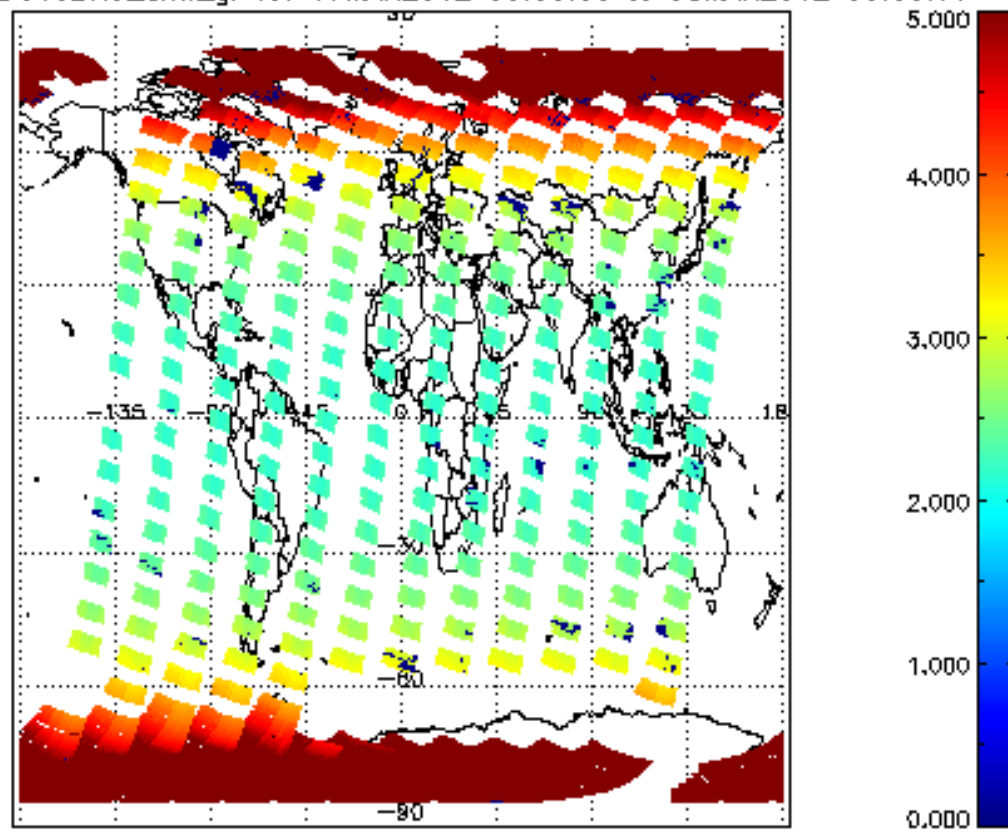
SCIOL2P_NADUV3BRO_vcd for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



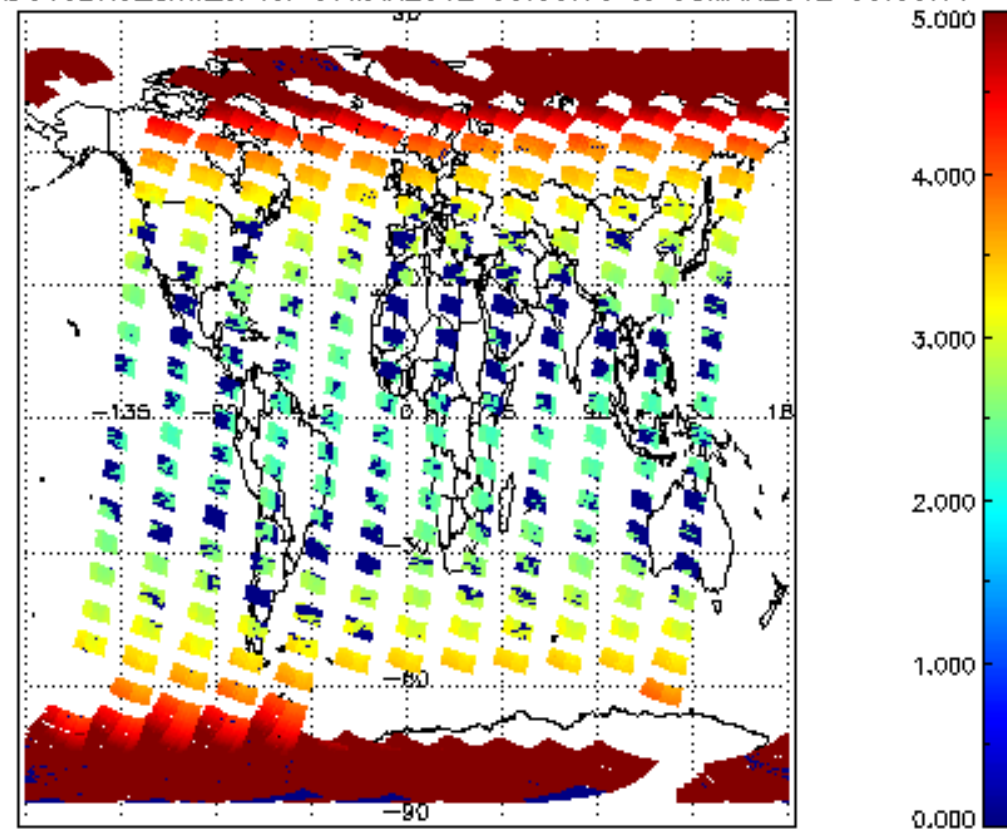
SCIOL2P_NADUV3BRO_vcd_err for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

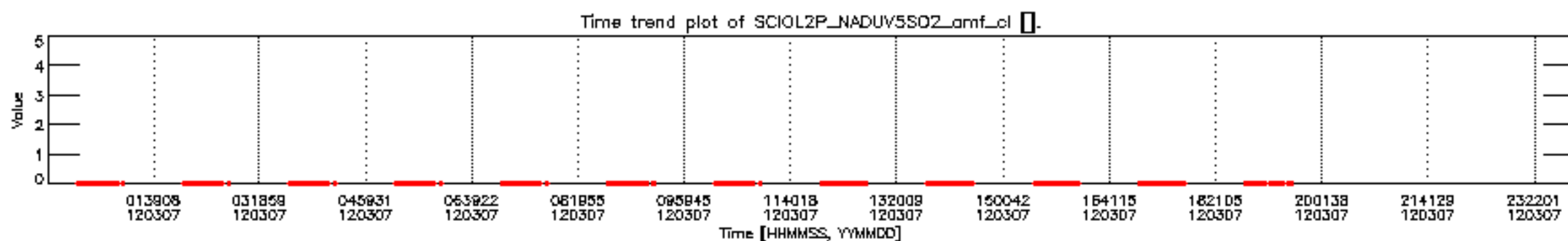
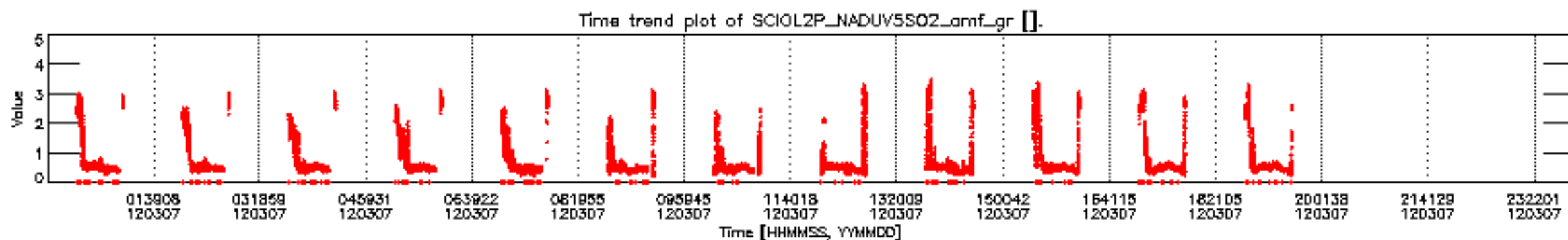
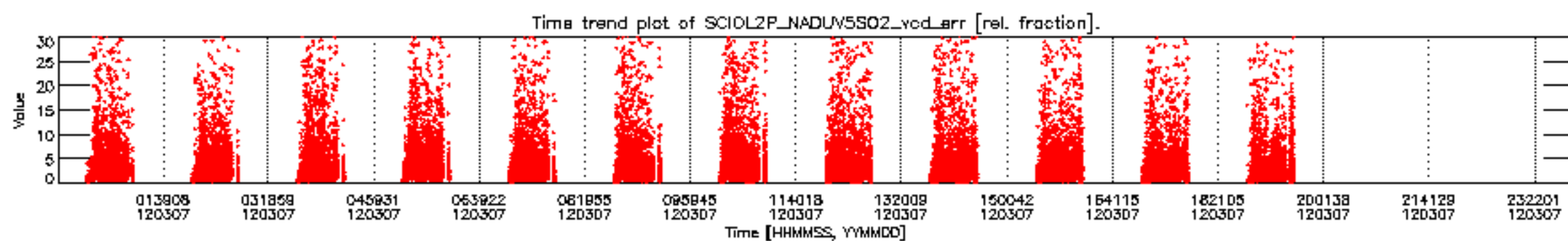
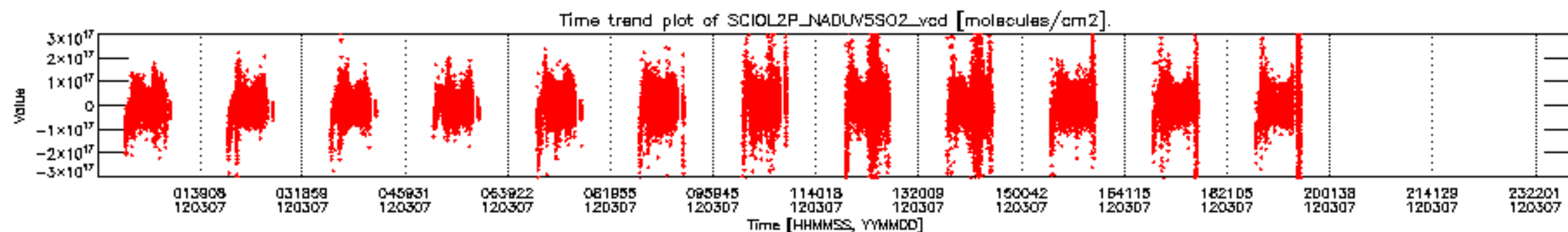


SCIOL2P_NADUV3BRO_amf_gr for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

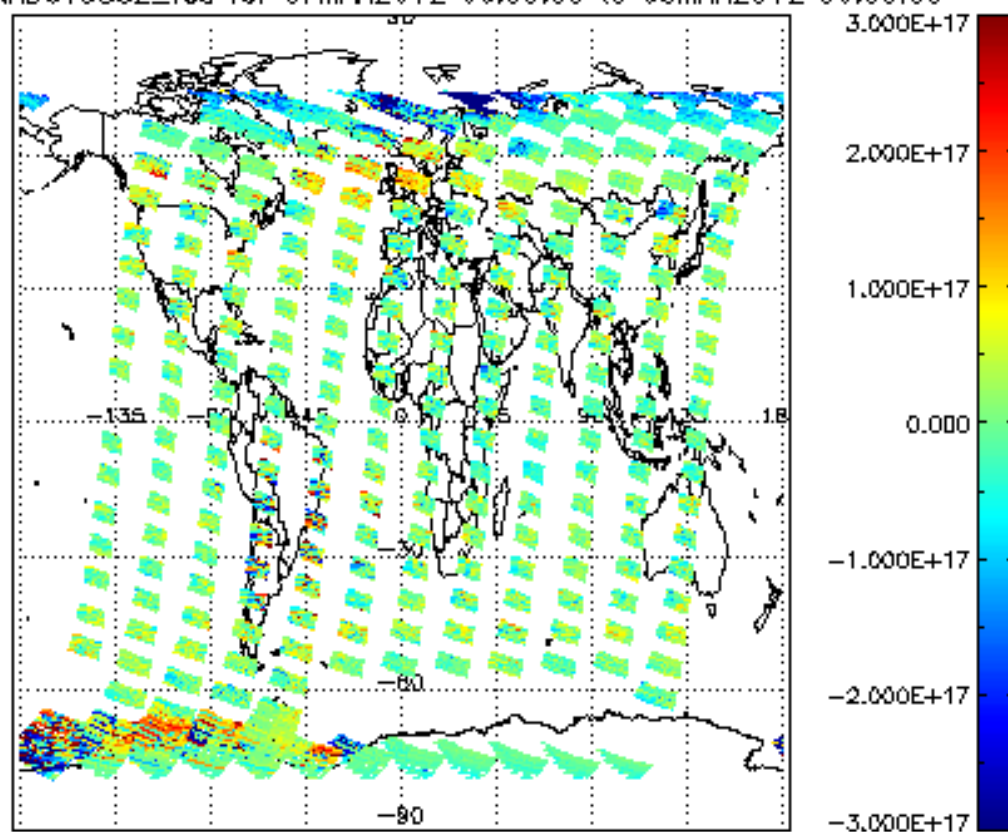


SCIOL2P_NADUV3BRO_amf_cl for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

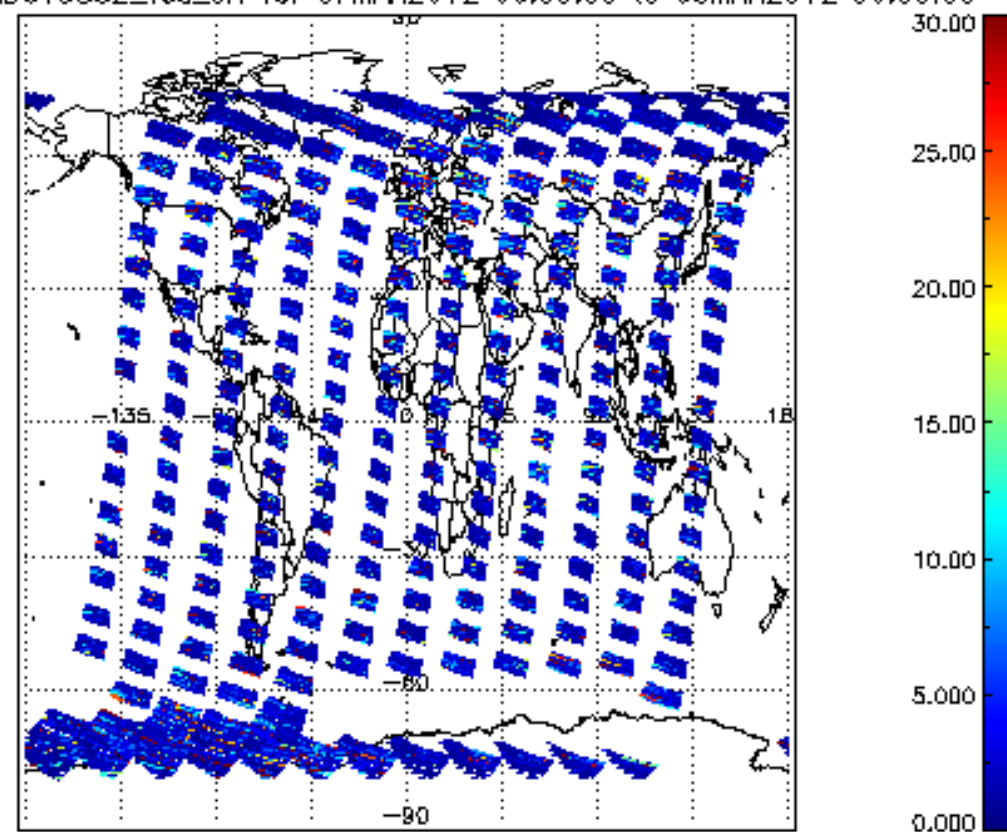




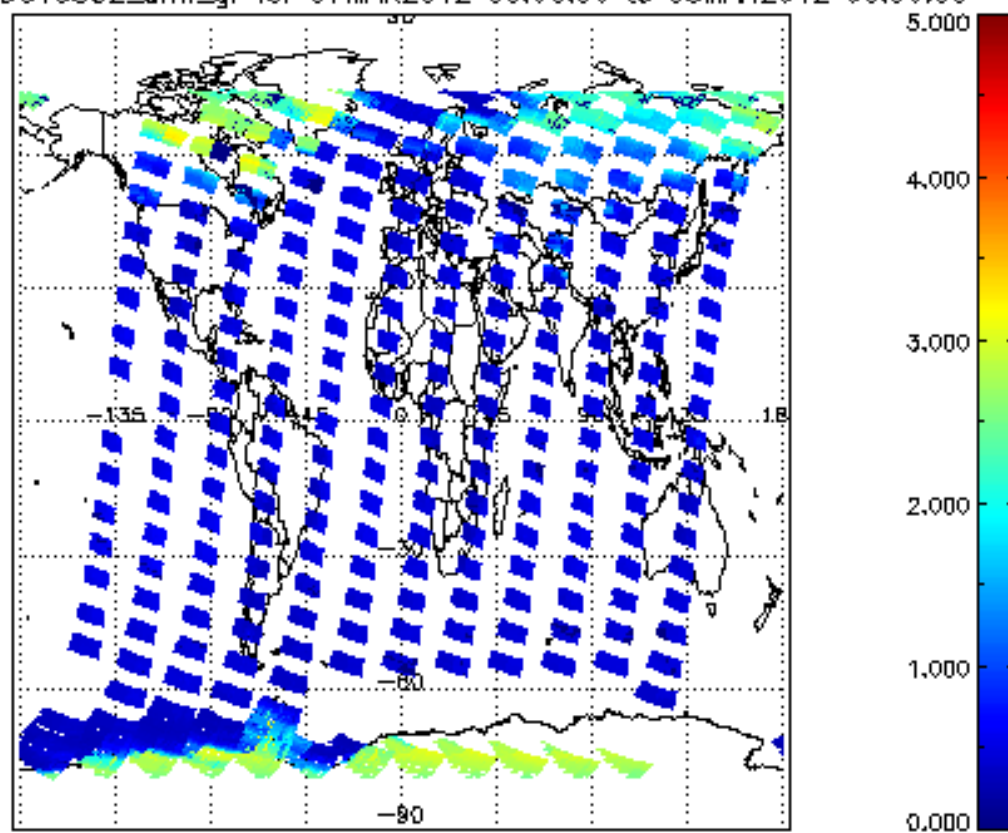
SCIOL2P_NADUV5S02_vcd for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



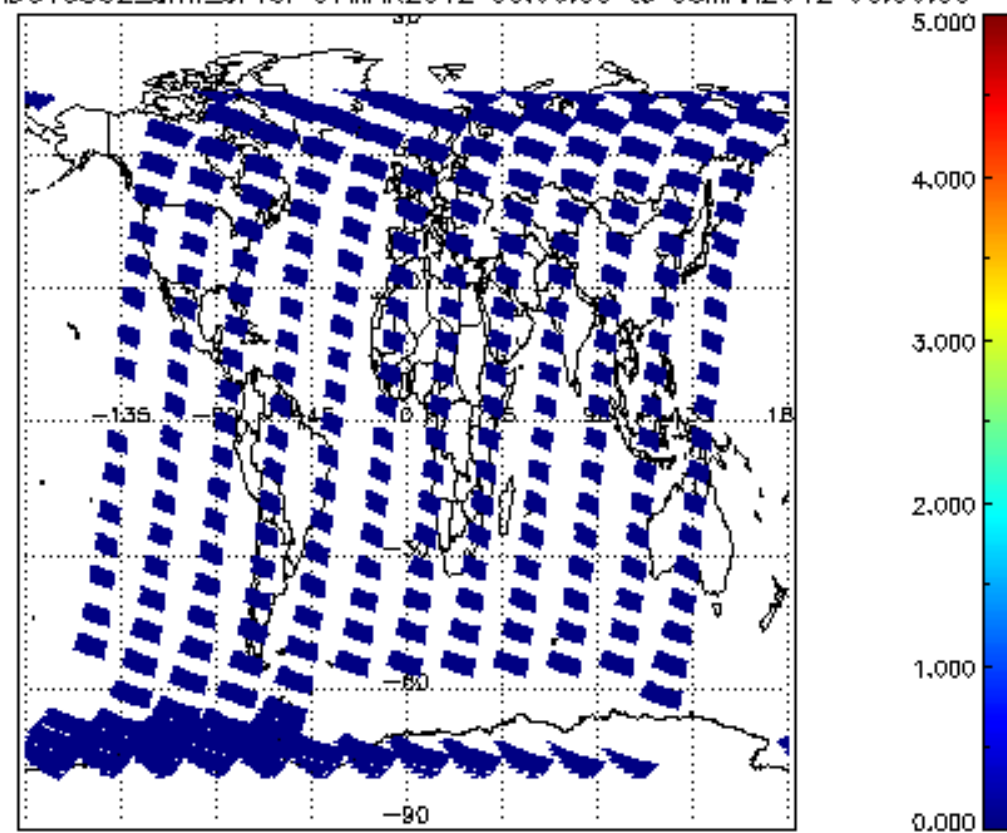
SCIOL2P_NADUV5S02_vcd_err for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

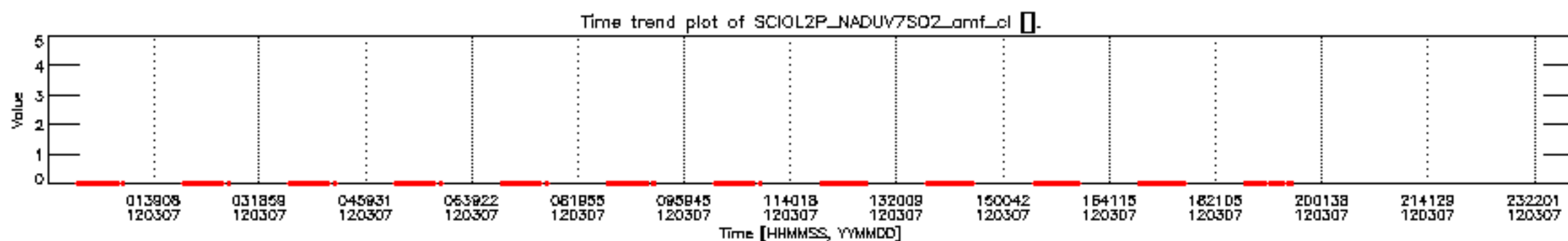
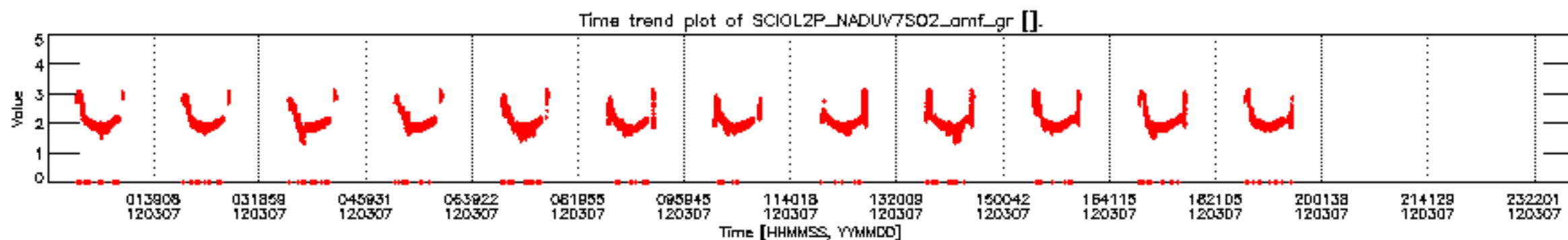
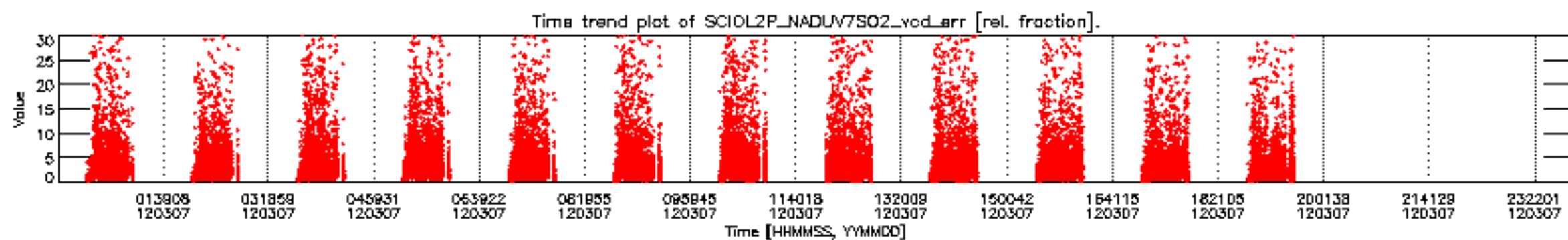
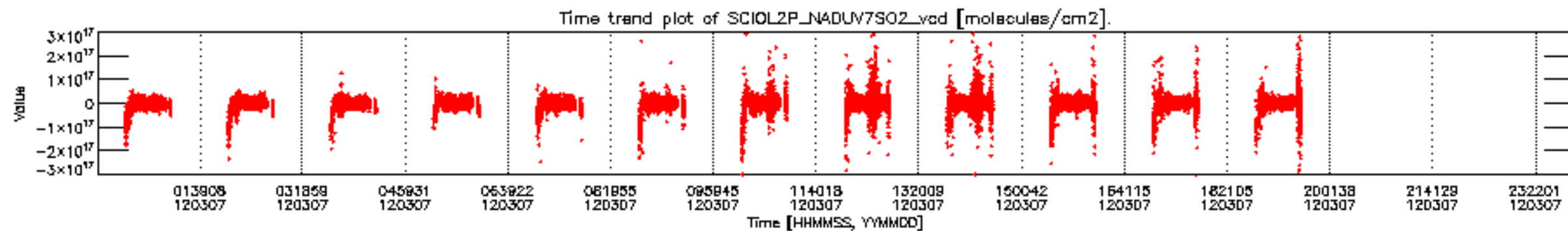


SCIOL2P_NADUV5S02_amf_gr for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

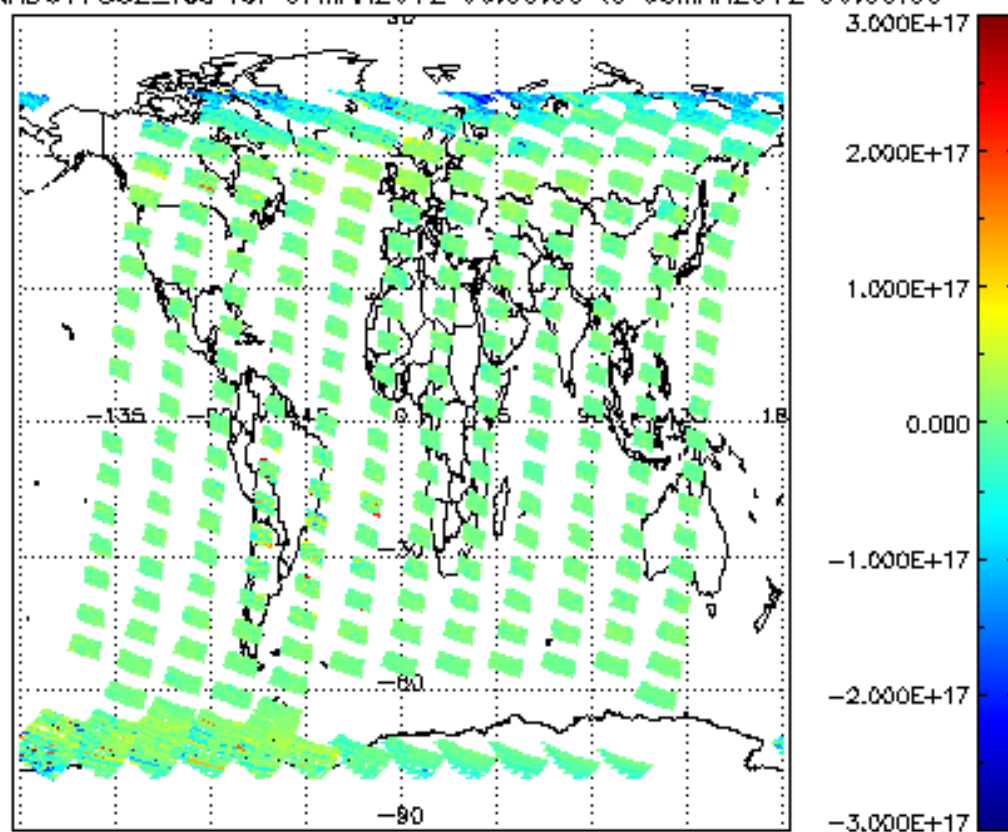


SCIOL2P_NADUV5S02_amf_cl for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

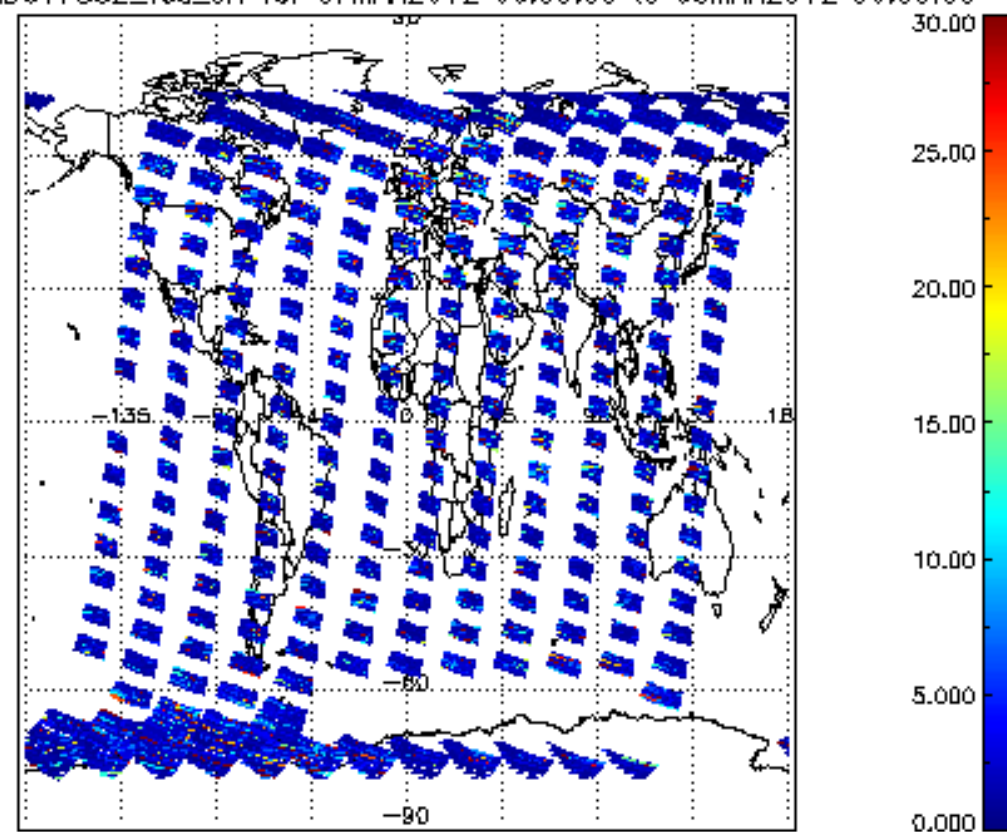




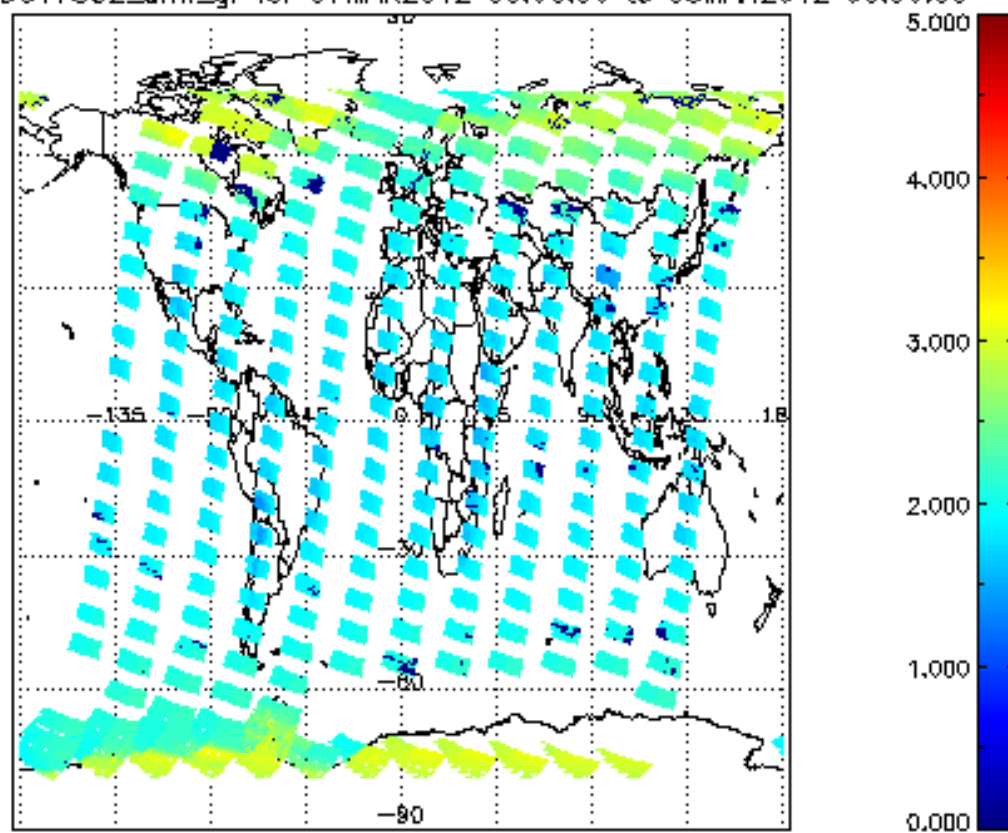
SCIOL2P_NADUV7S02_vcd for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



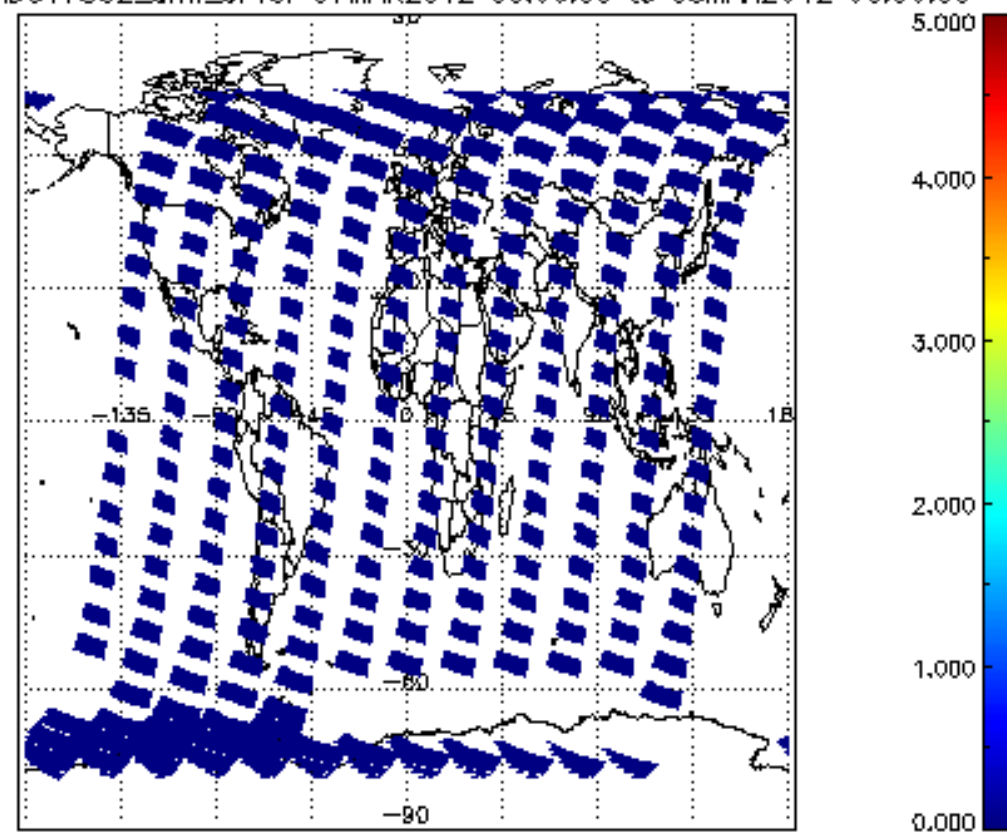
SCIOL2P_NADUV7S02_vcd_err for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

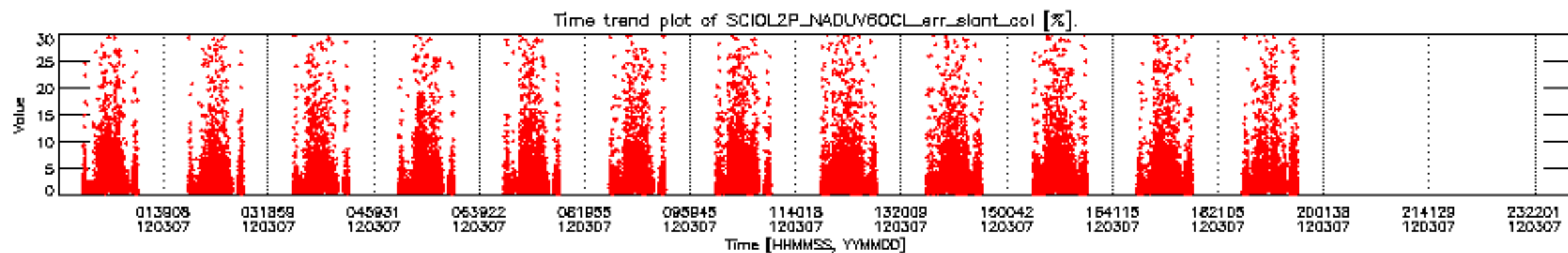
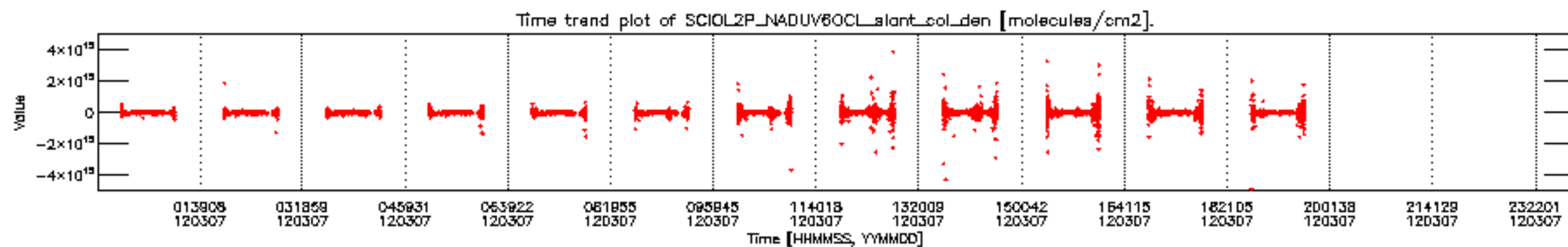


SCIOL2P_NADUV7S02_amf_gr for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

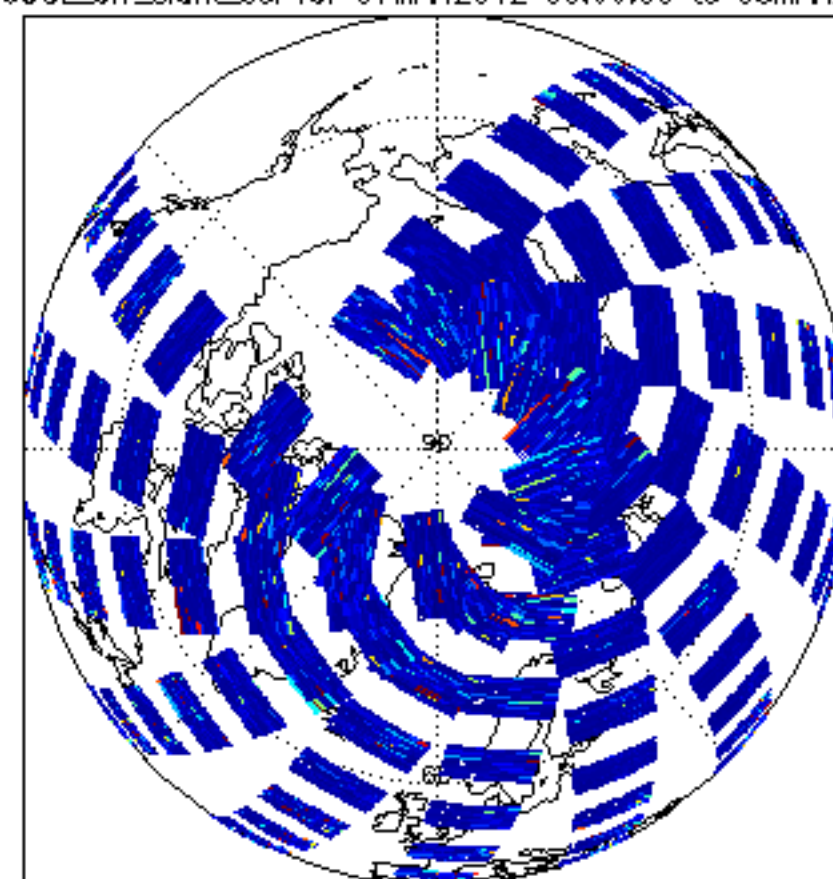
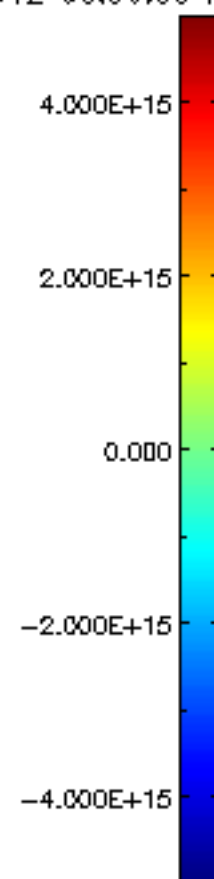
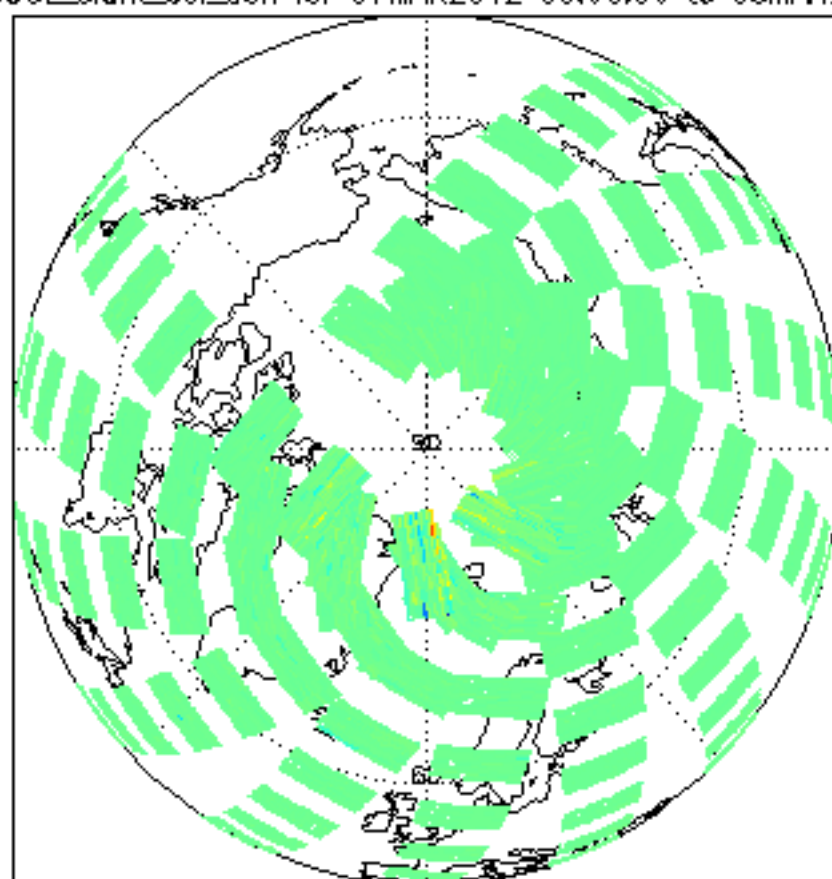


SCIOL2P_NADUV7S02_amf_cl for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

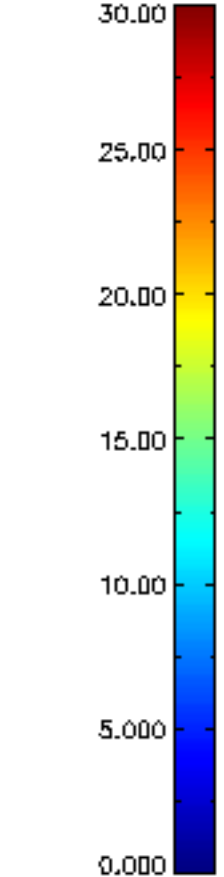
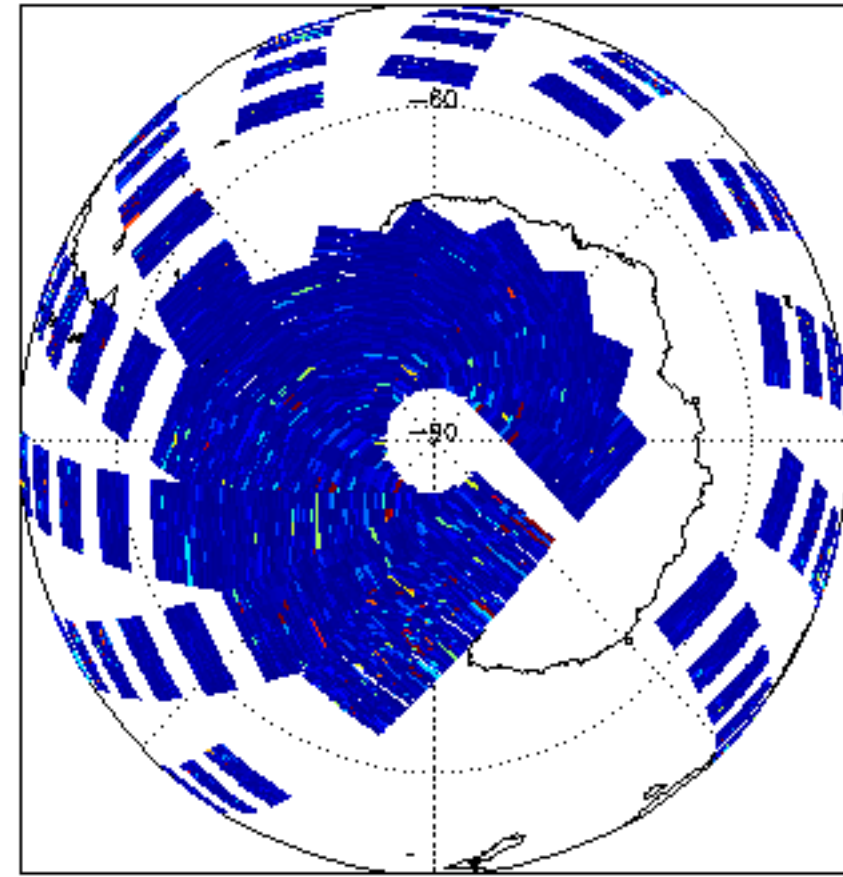
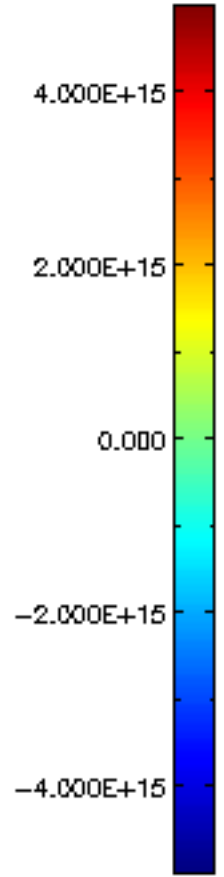
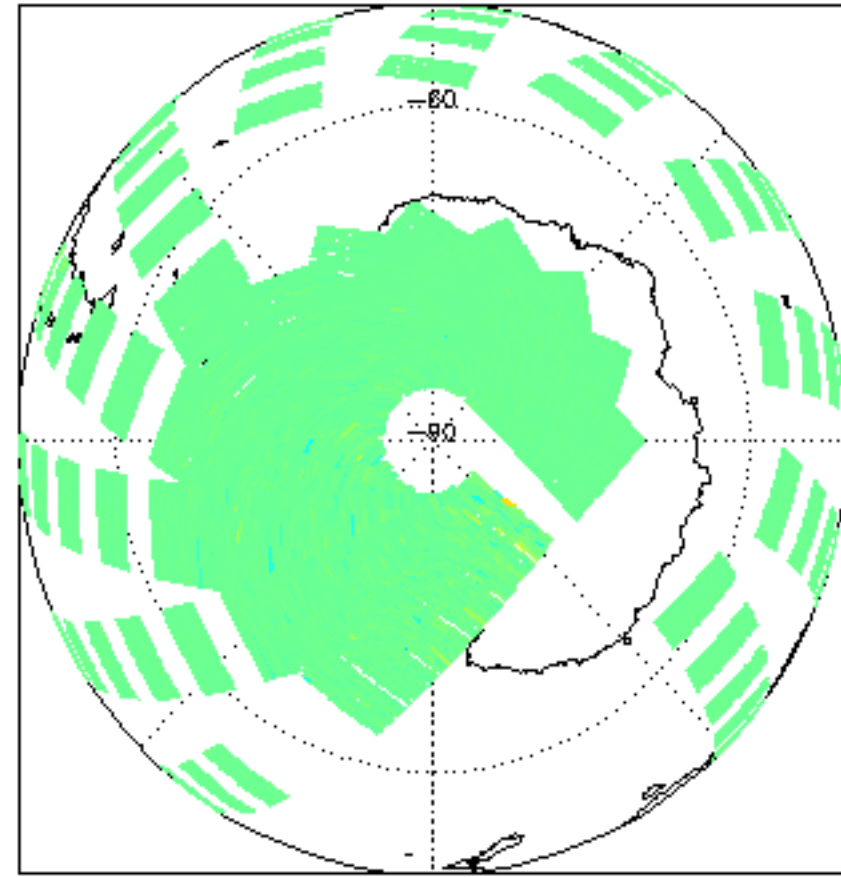


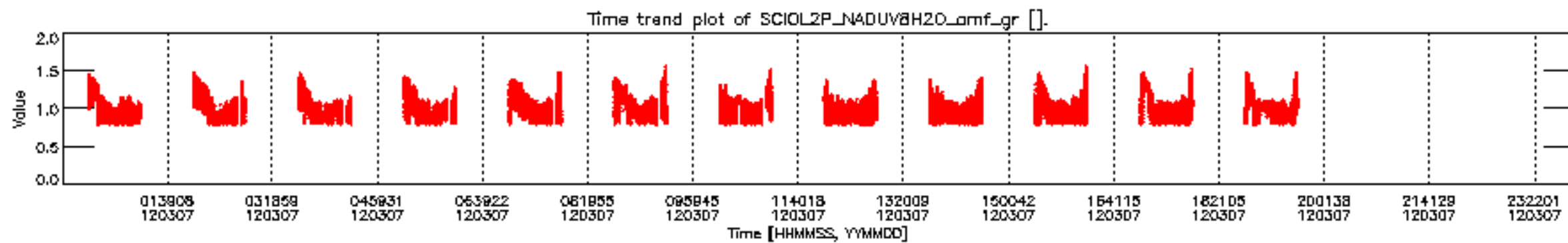
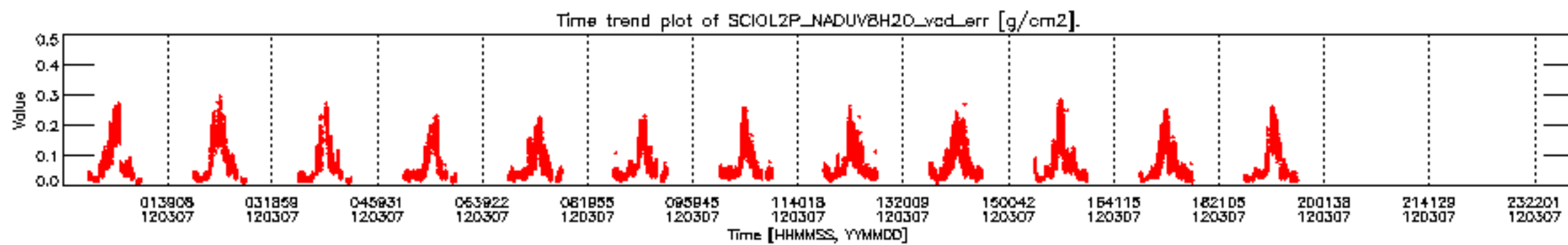
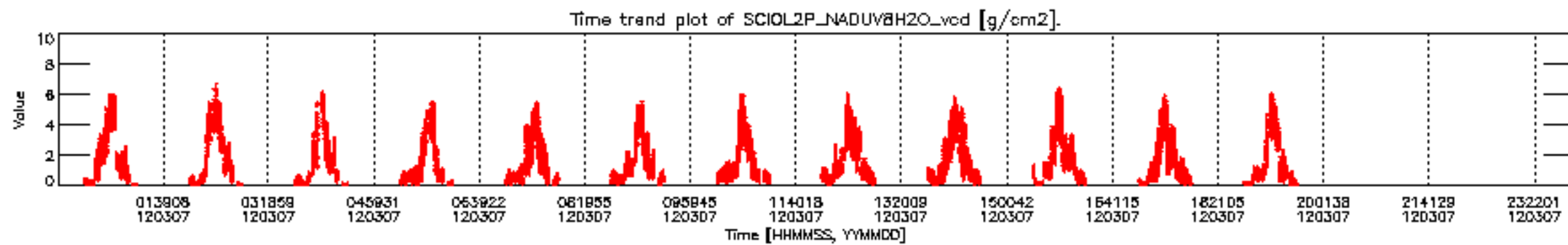


CIOL2P_NADUV6OCL_slant_col_den for 07MAR2012 00:00:00 to 08MAR2012 00:00:00 np; CIOL2P_NADUV6OCL_err_slant_col for 07MAR2012 00:00:00 to 08MAR2012 00:00:00 np

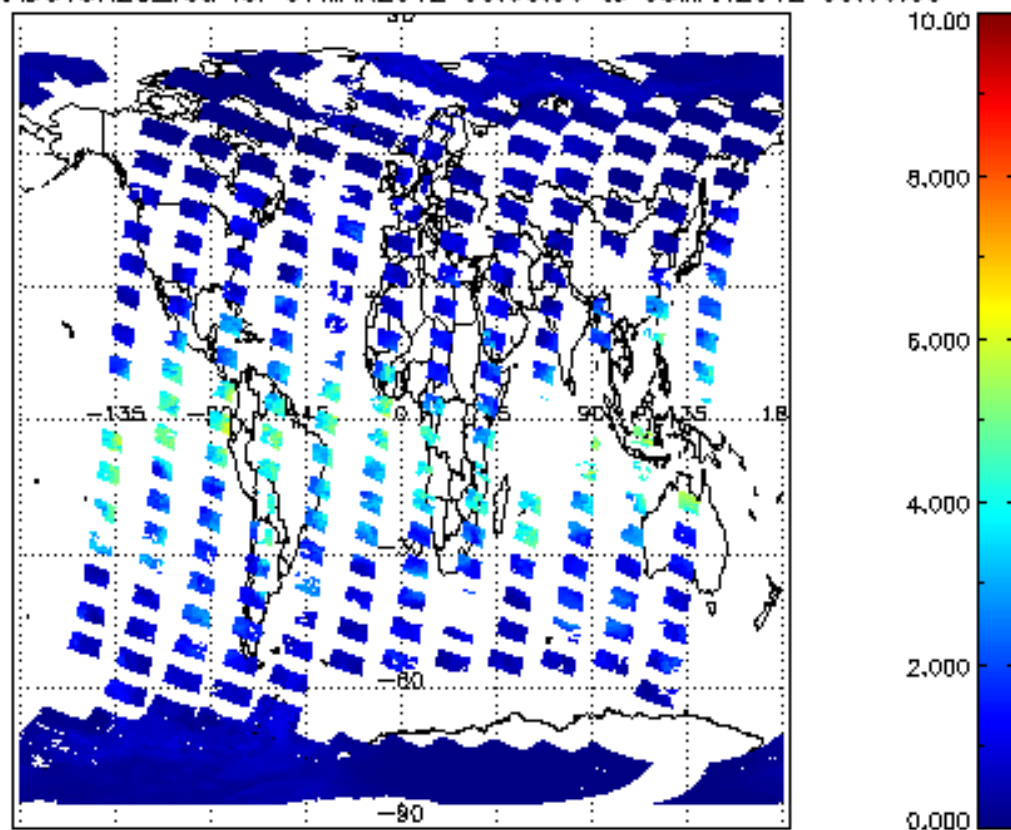


CIOL2P_NADUV6OCL_slant_col_den for 07MAR2012 00:00:00 to 08MAR2012 00:00:00 sp; CIOL2P_NADUV6OCL_err_slant_col for 07MAR2012 00:00:00 to 08MAR2012 00:00:00 sp

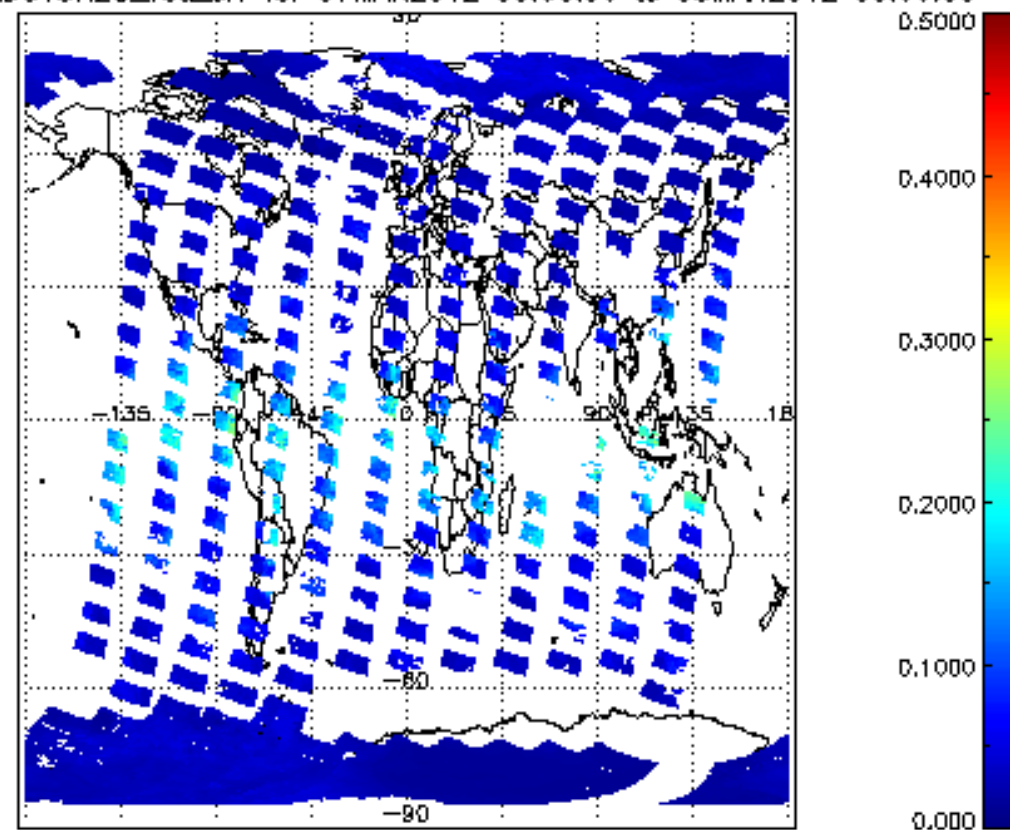




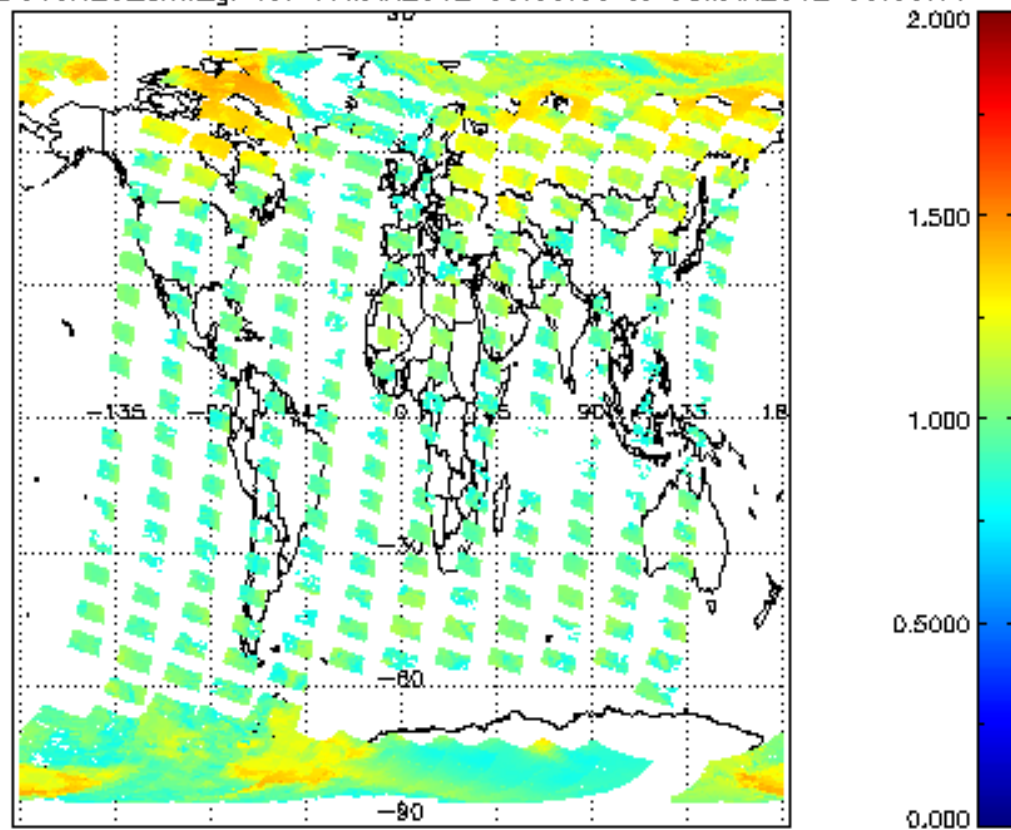
SCIOL2P_NADUV8H20_vcd for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

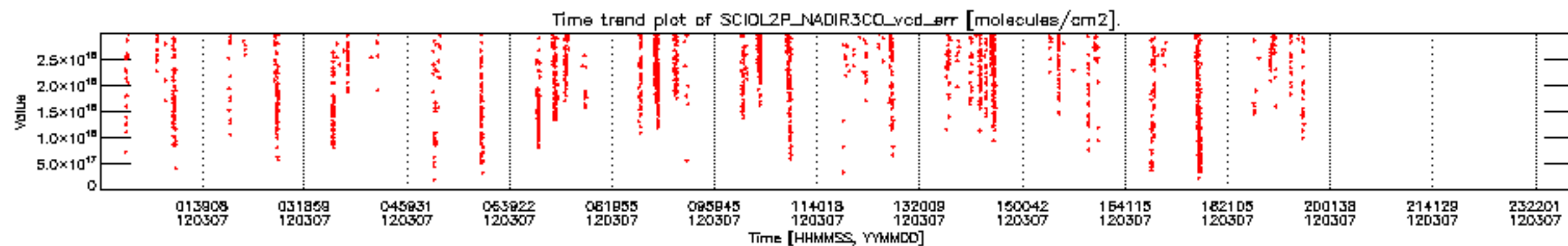
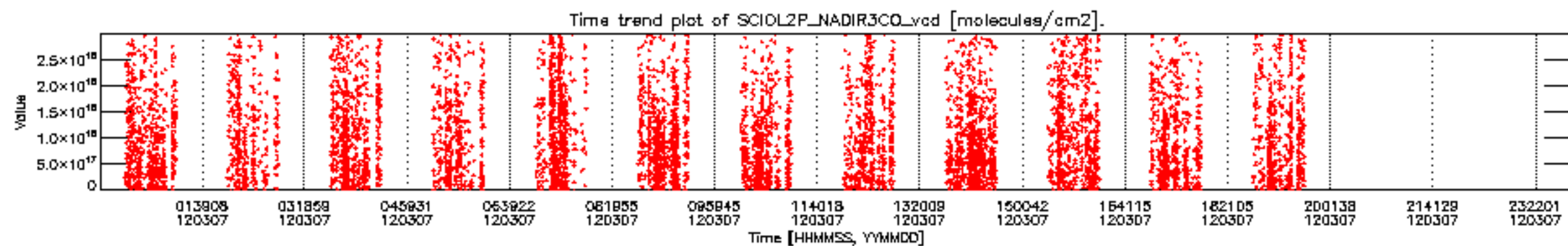


SCIOL2P_NADUV8H20_vcd_err for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

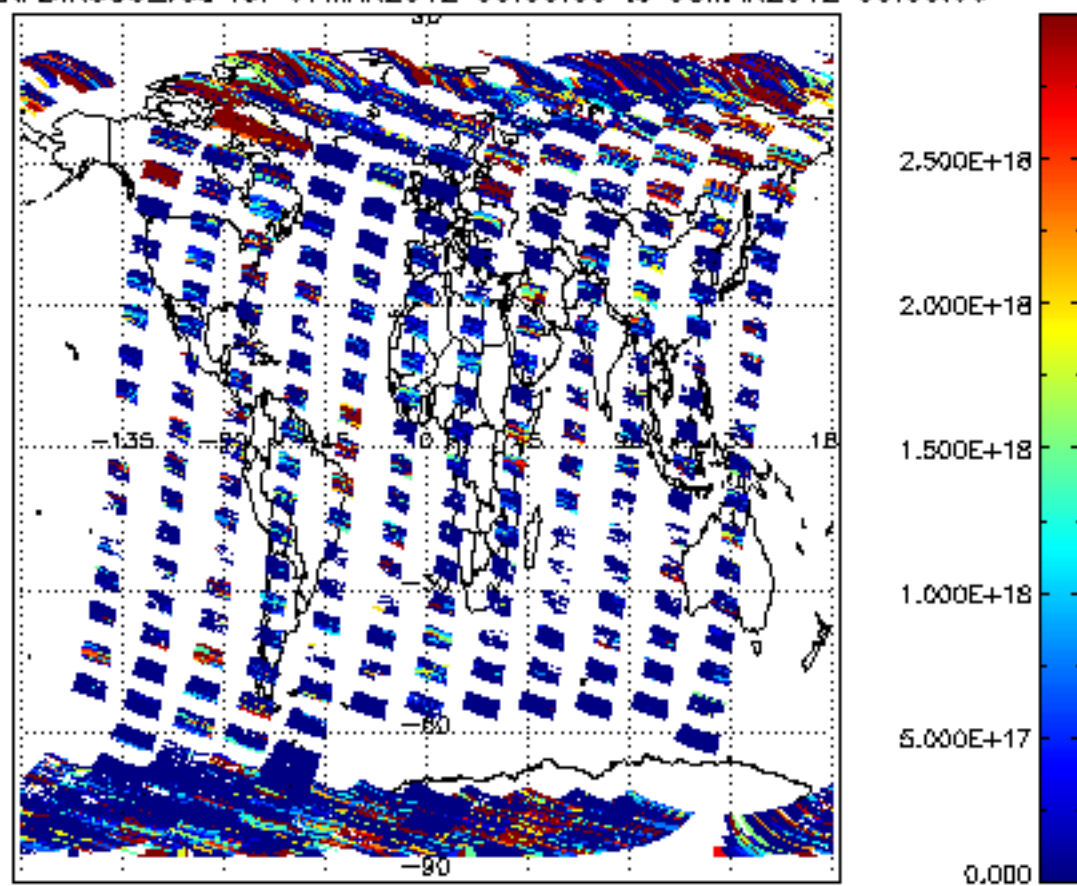


SCIOL2P_NADUV8H20_arnf_gr for 07MAR2012 00:00:00 to 08MAR2012 00:00:00

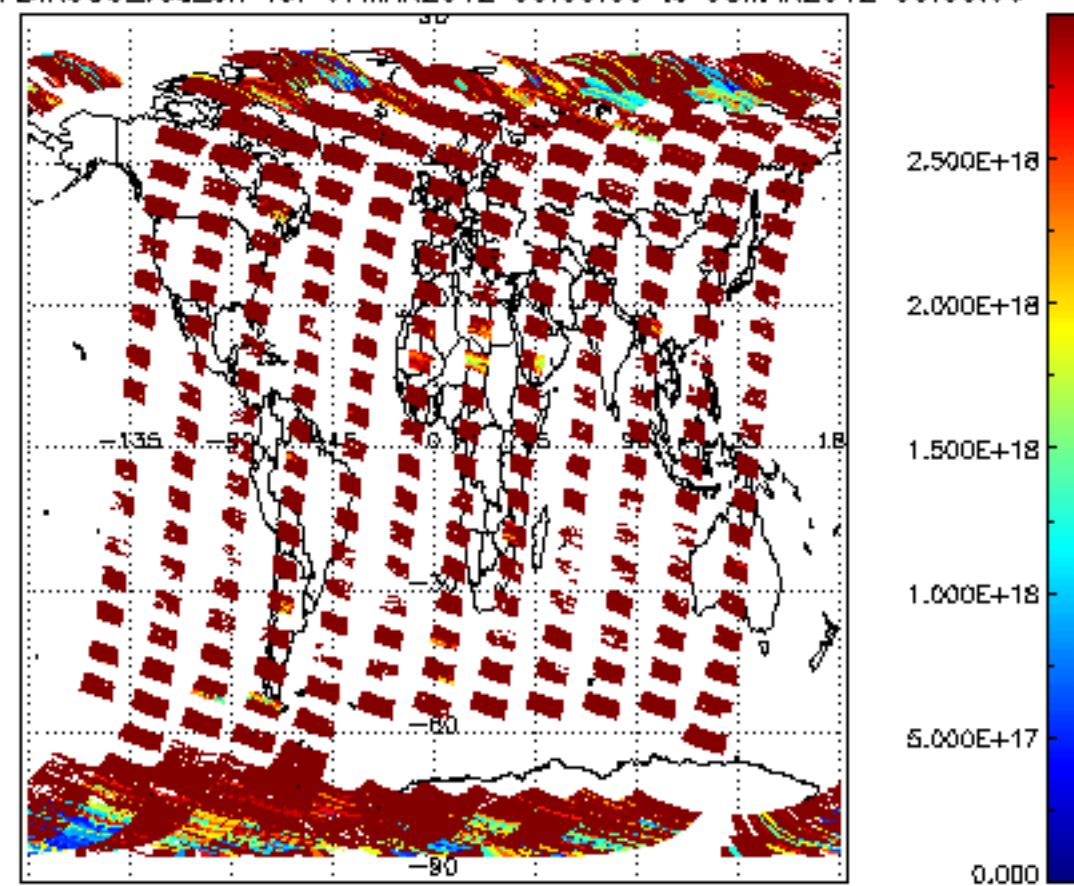




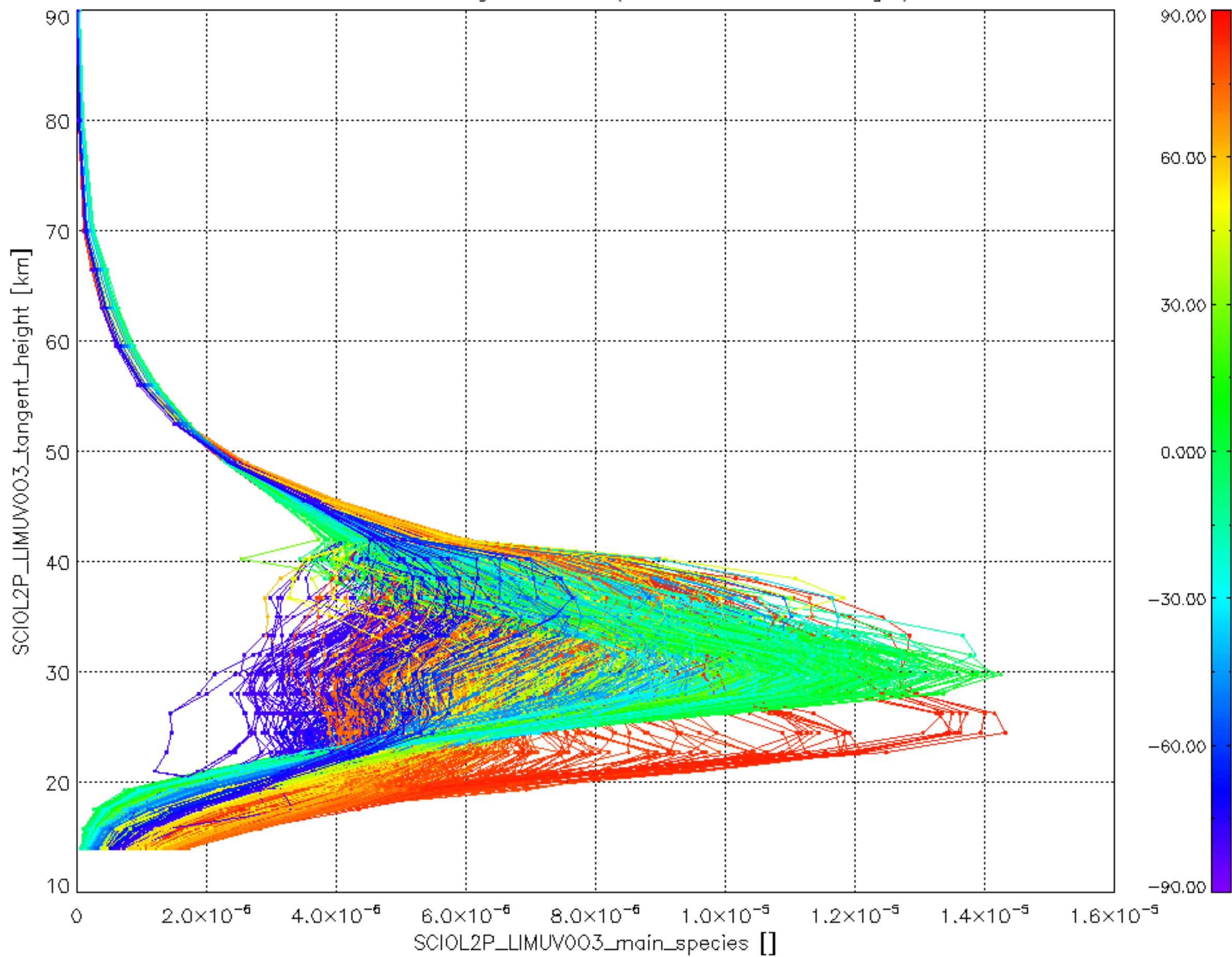
SCIOL2P_NADIR3CO_vcd for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



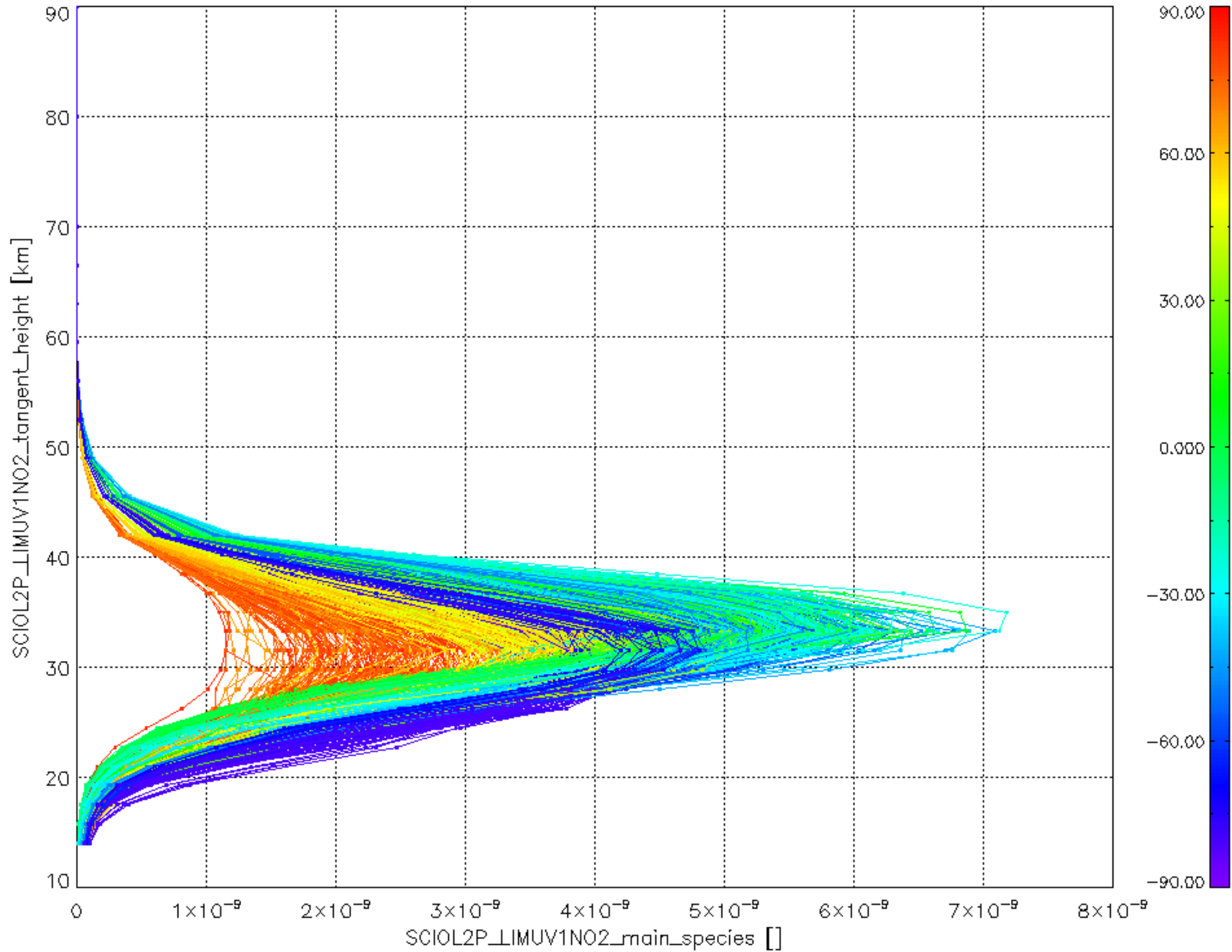
SCIOL2P_NADIR3CO_vcd_err for 07MAR2012 00:00:00 to 08MAR2012 00:00:00



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).

