

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	22MAR2012 03:27:06
Data source version	SCIA-OL/5.02-W
Processing scope for products	09MAR2012 00:00:00 to 10MAR2012 00:00:00
Start time of first product within scope	08MAR2012 23:02:42
Stop time of last product within scope	10MAR2012 01:04:55
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__2PWDPA20120308_230242_000035163112_00260_52429_3909.N1	08MAR2012 23:02:42	09MAR2012 00:01:18	0	GOOD
1	SCI_OL__2PWDPA20120309_004256_000035303112_00261_52430_3910.N1	09MAR2012 00:42:56	09MAR2012 01:41:46	0	GOOD
2	SCI_OL__2PWDPA20120309_022309_000035163112_00262_52431_3911.N1	09MAR2012 02:23:09	09MAR2012 03:21:45	0	GOOD
3	SCI_OL__2PWDPA20120309_040322_000035303112_00263_52432_3912.N1	09MAR2012 04:03:22	09MAR2012 05:02:13	0	GOOD
4	SCI_OL__2PWDPA20120309_054336_000035163112_00264_52433_3913.N1	09MAR2012 05:43:36	09MAR2012 06:42:12	0	GOOD

5	SCI_OL__2PWDP	20120309_072350_000035303112_00265_52434_3914.N1	09MAR2012 07:23:50	09MAR2012 08:22:40	0	GOOD
6	SCI_OL__2PWDP	20120309_090403_000035163112_00266_52435_3915.N1	09MAR2012 09:04:03	09MAR2012 10:02:39	0	GOOD
7	SCI_OL__2PWDP	20120309_104416_000035303112_00267_52436_3916.N1	09MAR2012 10:44:16	09MAR2012 11:43:07	0	GOOD
8	SCI_OL__2PWDP	20120309_122430_000035163112_00268_52437_3917.N1	09MAR2012 12:24:30	09MAR2012 13:23:06	0	GOOD
9	SCI_OL__2PWDP	20120309_140443_000035303112_00269_52438_3918.N1	09MAR2012 14:04:43	09MAR2012 15:03:34	0	GOOD
10	SCI_OL__2PWDP	20120309_154457_000035163112_00270_52439_3919.N1	09MAR2012 15:44:57	09MAR2012 16:43:33	0	GOOD
11	SCI_OL__2PWDP	20120309_172612_000034703112_00271_52440_3920.N1	09MAR2012 17:26:12	09MAR2012 18:24:03	0	GOOD
12	SCI_OL__2PWDP	20120309_190542_000035163112_00272_52441_3921.N1	09MAR2012 19:05:42	09MAR2012 20:04:18	0	GOOD
13	SCI_OL__2PWDP	20120309_204537_000035303112_00273_52442_3922.N1	09MAR2012 20:45:37	09MAR2012 21:44:28	0	GOOD
14	SCI_OL__2PWDP	20120309_222551_000035163112_00274_52443_3923.N1	09MAR2012 22:25:51	09MAR2012 23:24:27	0	GOOD
15	SCI_OL__2PWDP	20120310_000604_000035303112_00275_52444_3941.N1	10MAR2012 00:06:04	10MAR2012 01:04:55	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: 143343

Total number of cloud data DSRs with good quality flag (=0): 143343 (100.0 %)

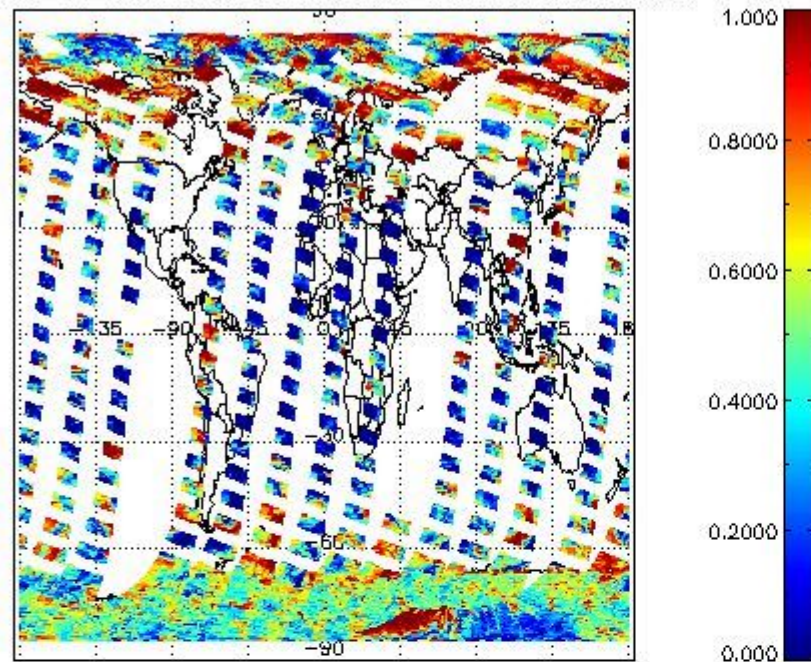
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	143343	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	143343	0.16422	0.12500	0.12500	0.25000	0.058004	s
CL_FRAC	143343	0.47397	0.45834	0.0000	1.0000	0.32526	
CL_FRAC_ERR	143343	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	143343	5.2552	4.0000	4.0000	8.0000	1.8561	
PMD_READ_CL[0]	143343	0.66993	0.0000	0.0000	8.0000	1.5430	-
PMD_READ_CL[1]	143343	1.0795	0.0000	0.0000	8.0000	2.3764	-
CL_TOP_HEIGHT	114009	3.6380	2.2362	0.0000	17.000	3.7542	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	114009	59.856	62.862	0.0000	101.00	40.700	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	143343	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	143343	11001011	11000100	11000000	11100000	3433.9	
AERO_ABSO_IND	143343	0.090797	0.0000	0.0000	6.4516	0.30394	
AERO_IND_DIAG	143343	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	143343	01010011	00000000	00000000	11000000	24354.	

Time and geolocation plots:

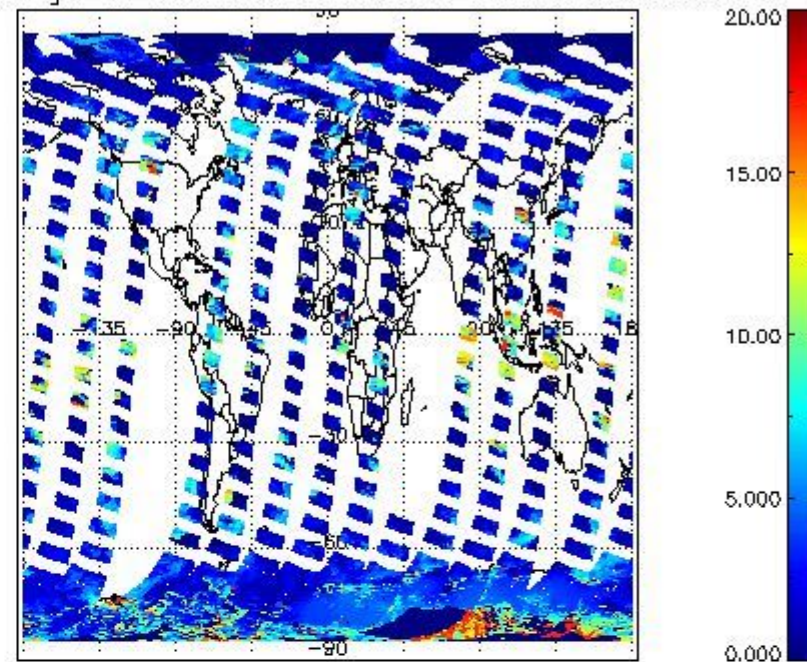
Plots are available for the following parameters:

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

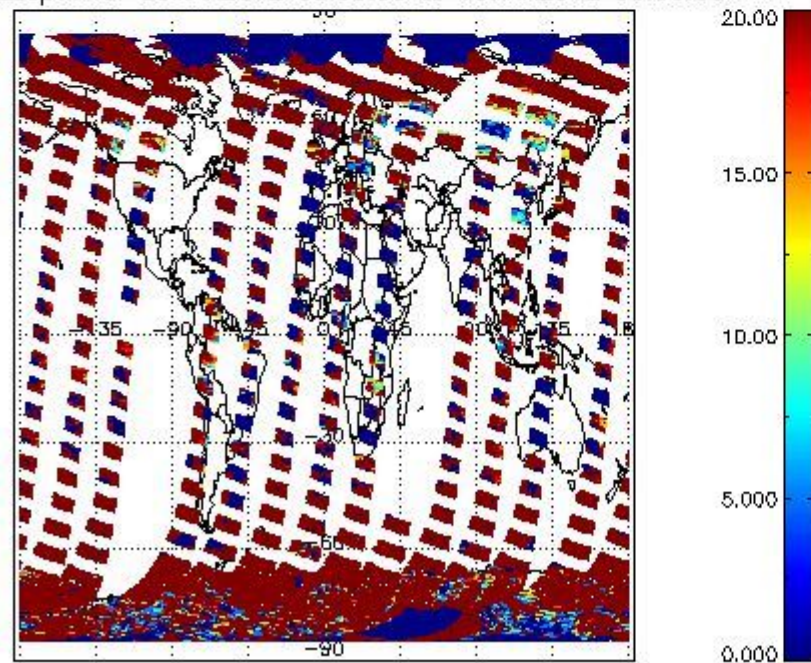
cL_frac for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



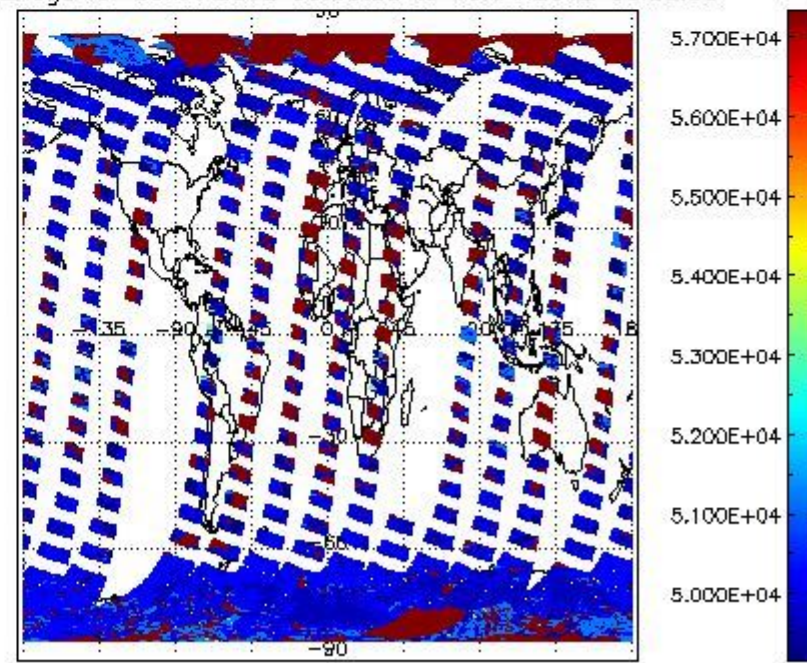
cL_top_height for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



cL_opt_depth for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



cloud_flags for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



2.2.2 Nadir

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

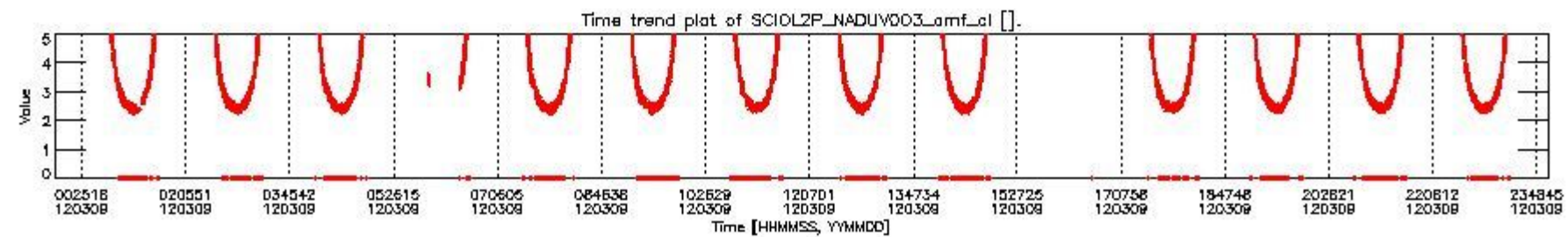
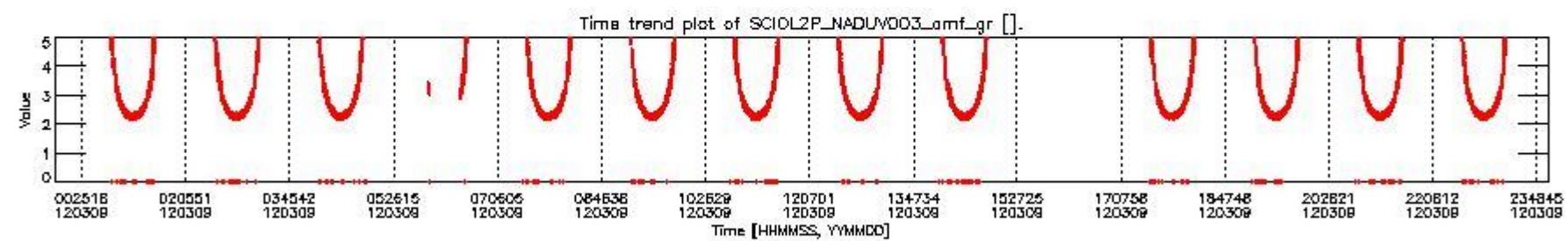
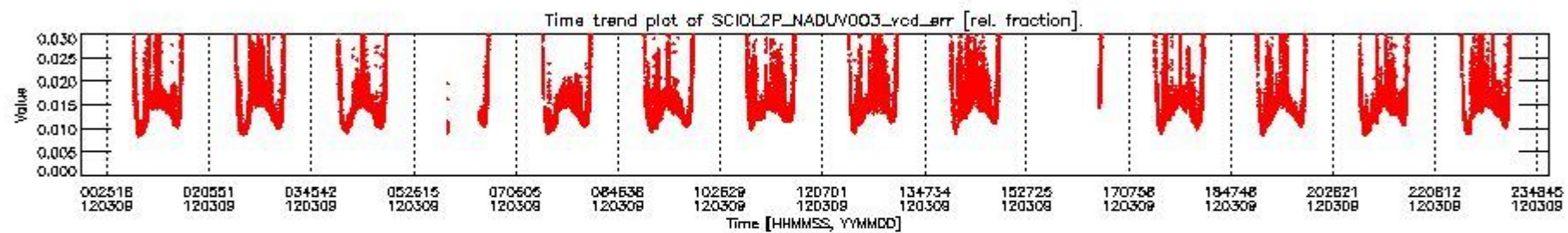
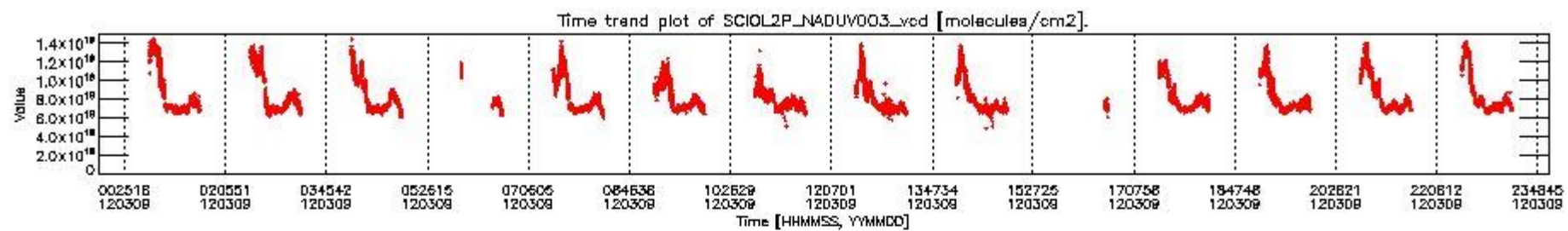
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

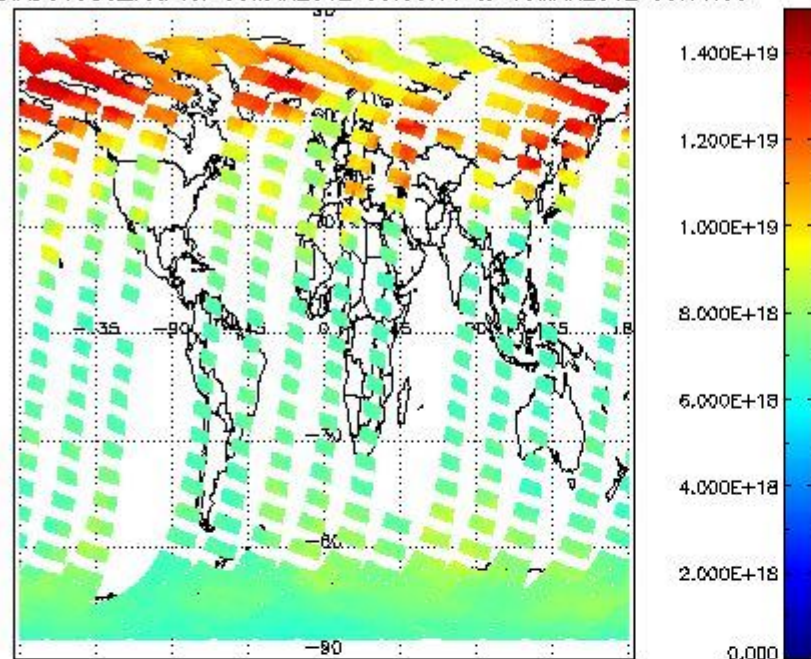
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

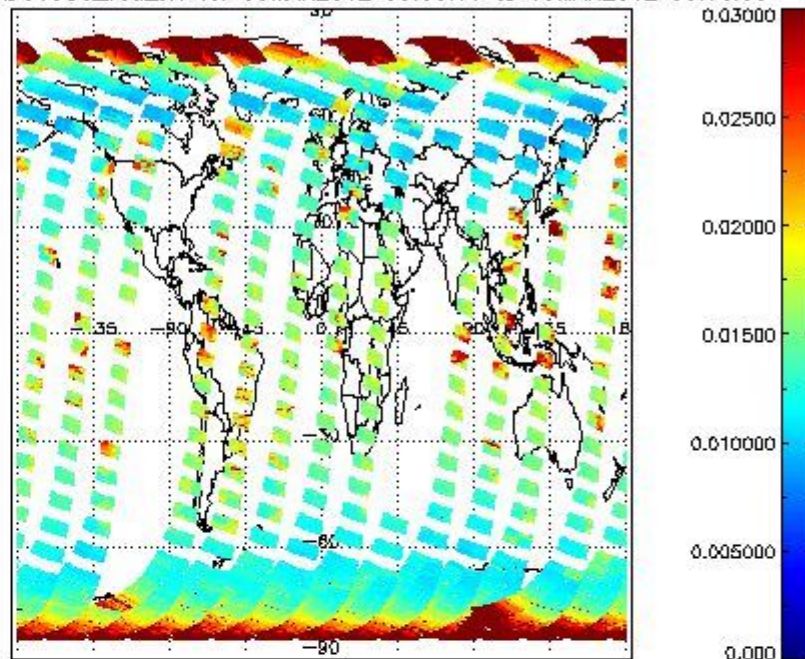
2.2.2.1 O3 (UV0)



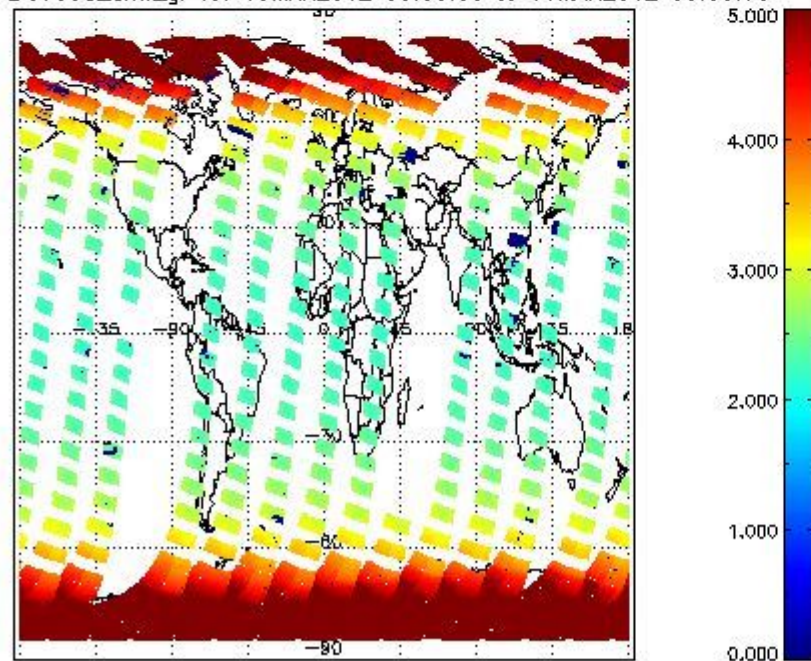
SCIOL2P_NADUV003_vcd for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



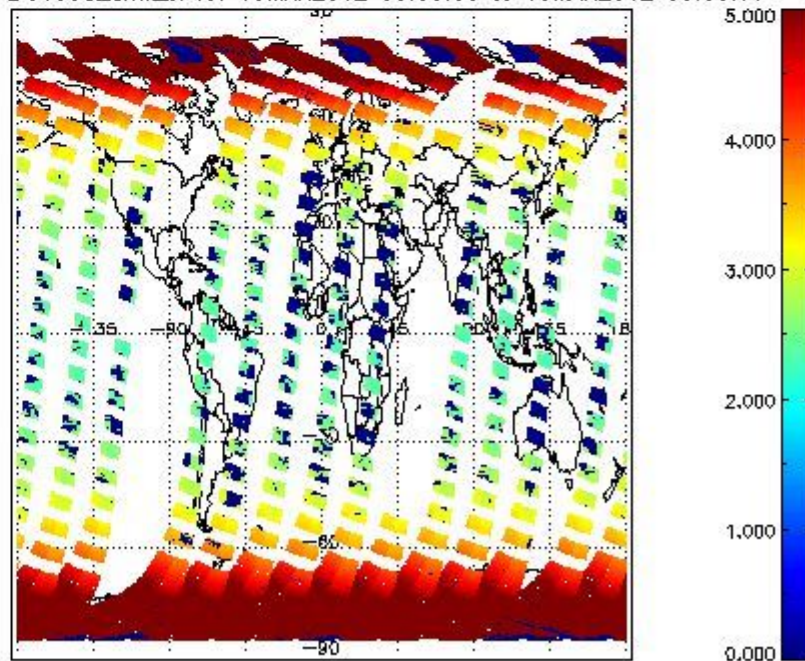
SCIOL2P_NADUV003_vcd_err for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



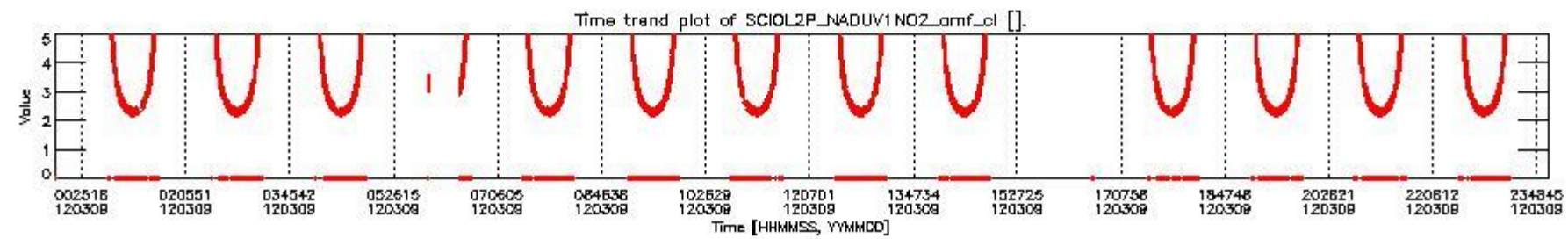
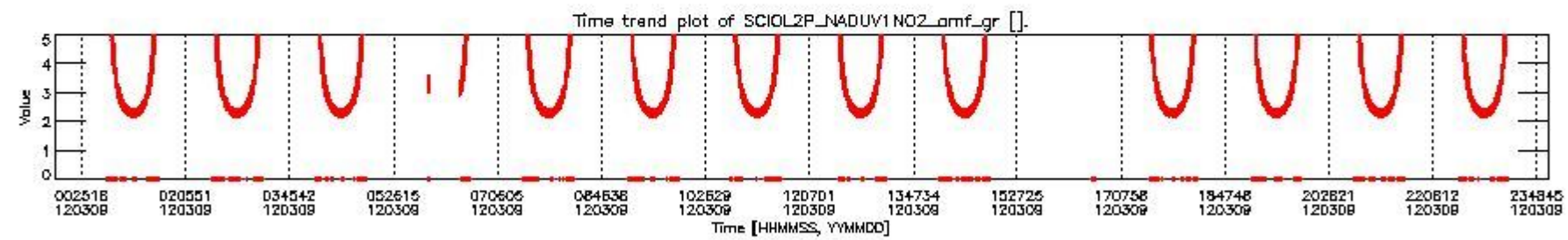
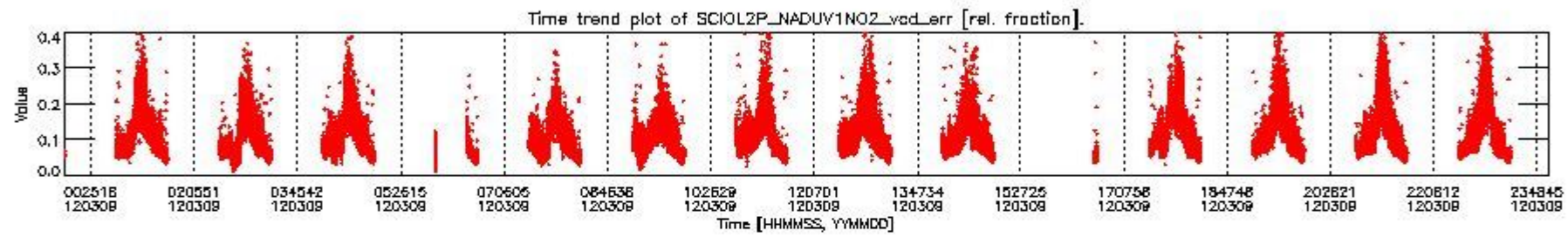
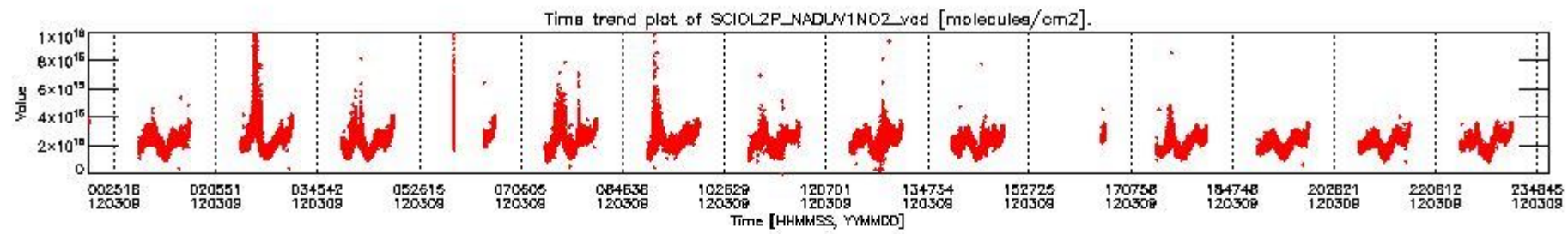
SCIOL2P_NADUV003_amf_gr for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



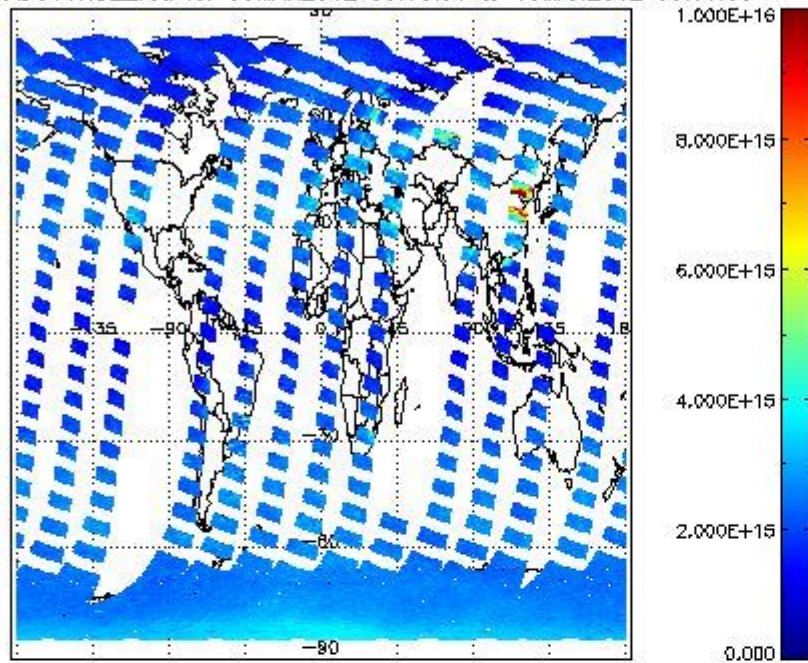
SCIOL2P_NADUV003_amf_cl for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



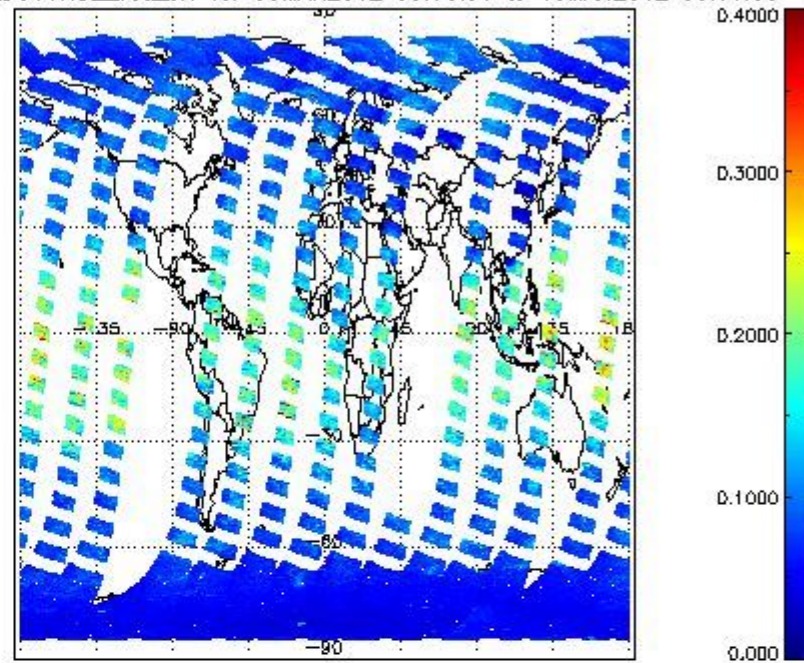
2.2.2.2 NO2 (UV1)



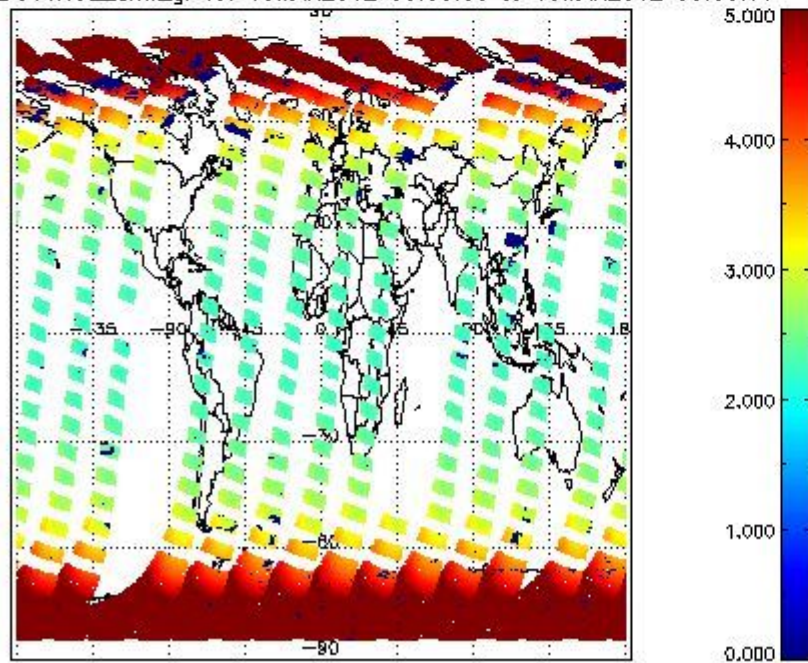
SCIOL2P_NADUV1NO2_vcd for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



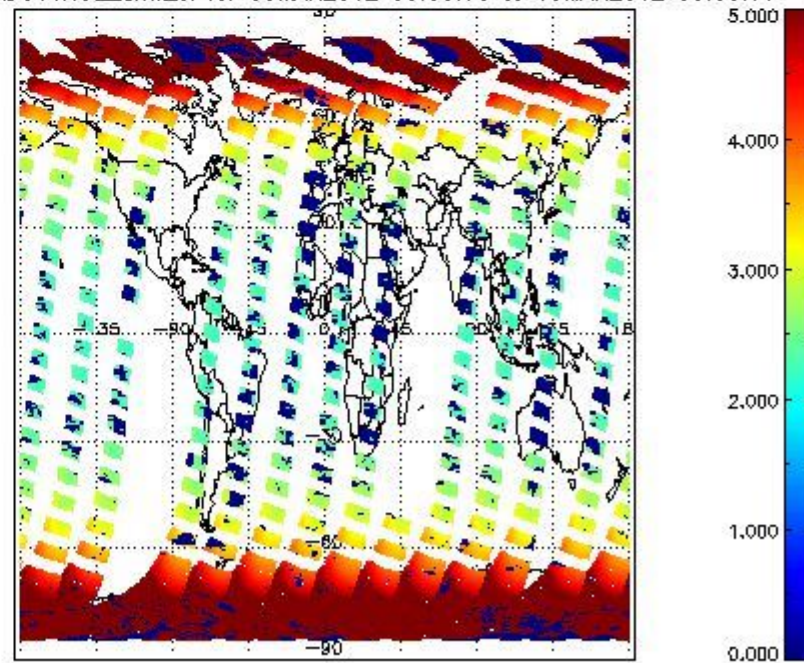
SCIOL2P_NADUV1NO2_vcd_err for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



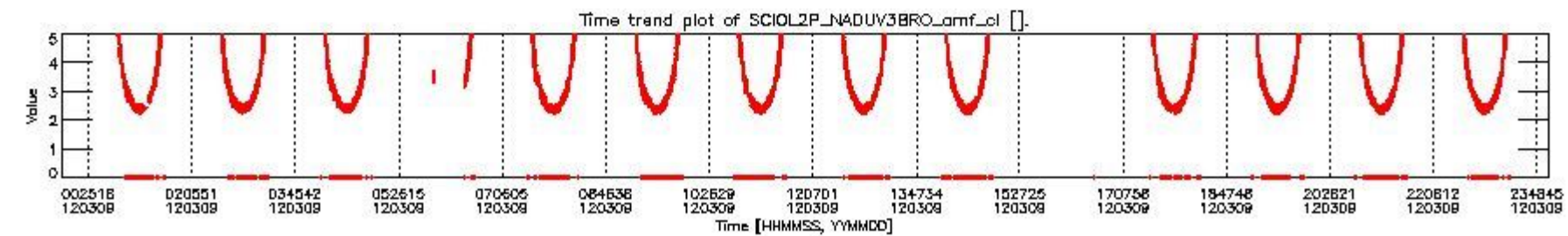
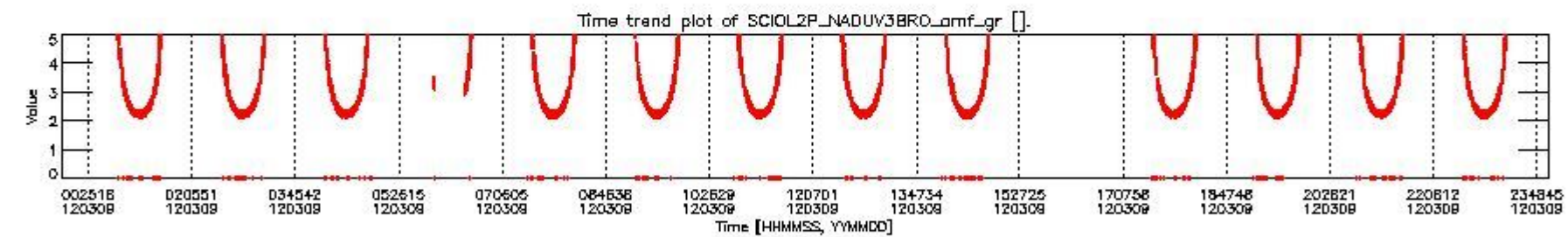
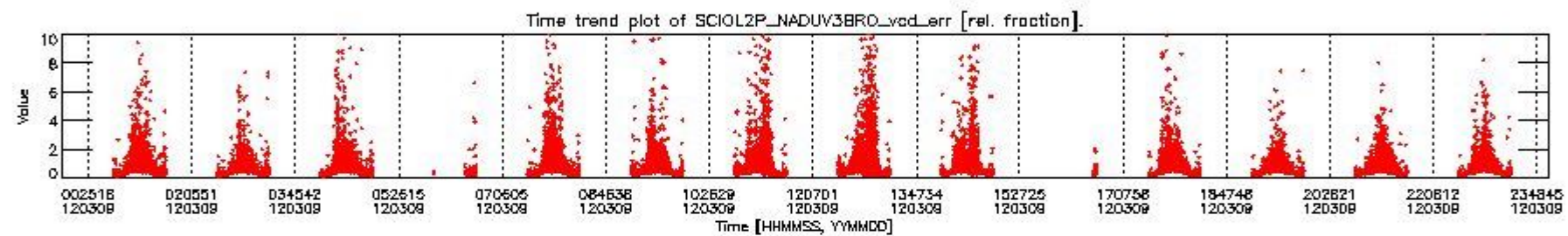
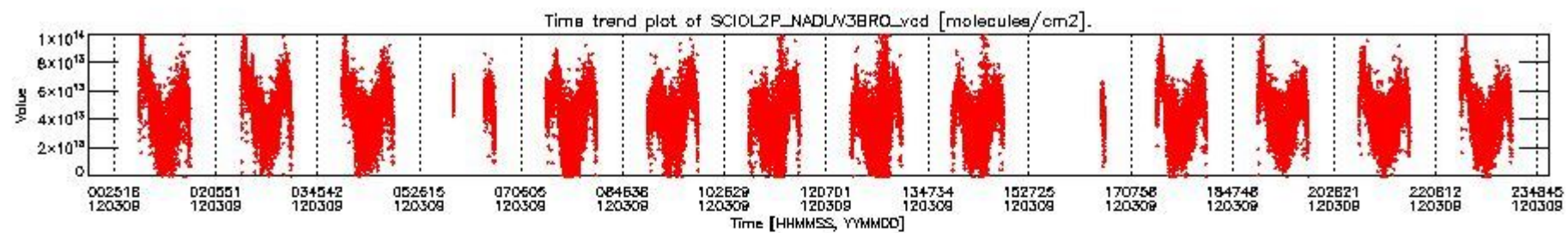
SCIOL2P_NADUV1NO2_amf_gr for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



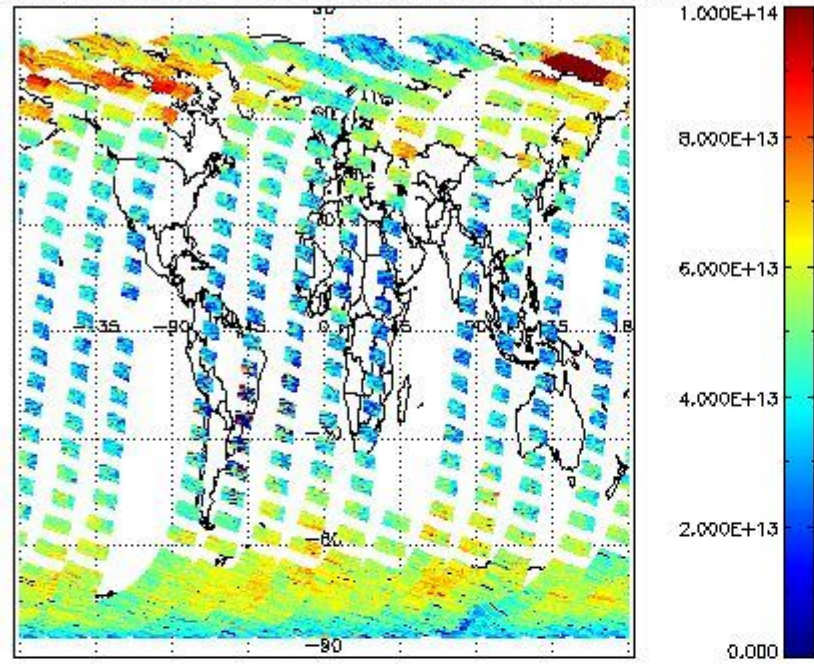
SCIOL2P_NADUV1NO2_amf_cl for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



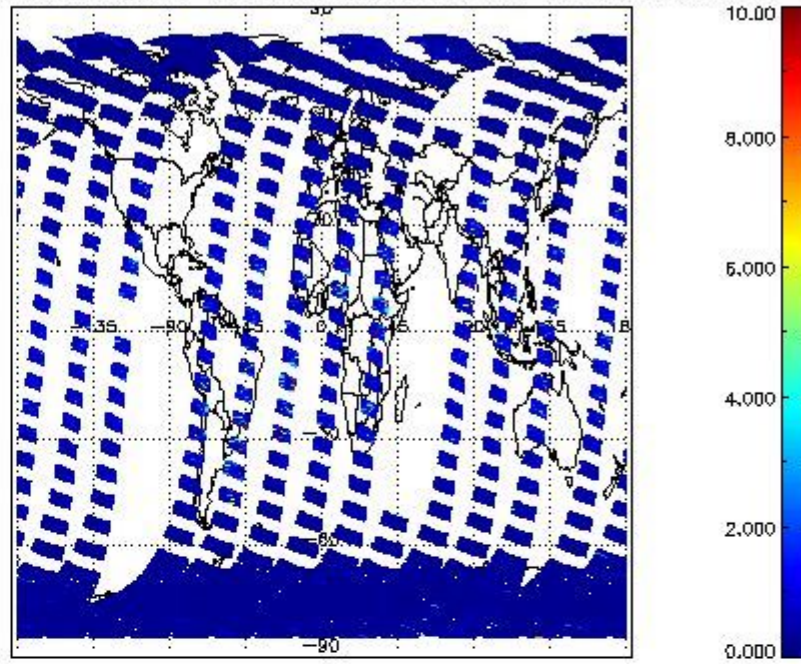
2.2.2.3 BrO (UV3)



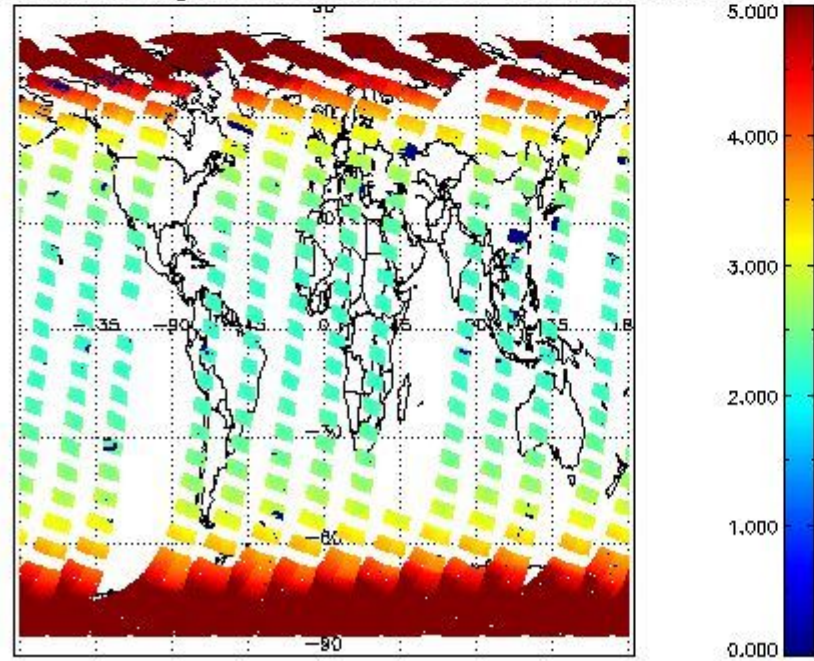
SCIOL2P_NADUV3BRO_vcd for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



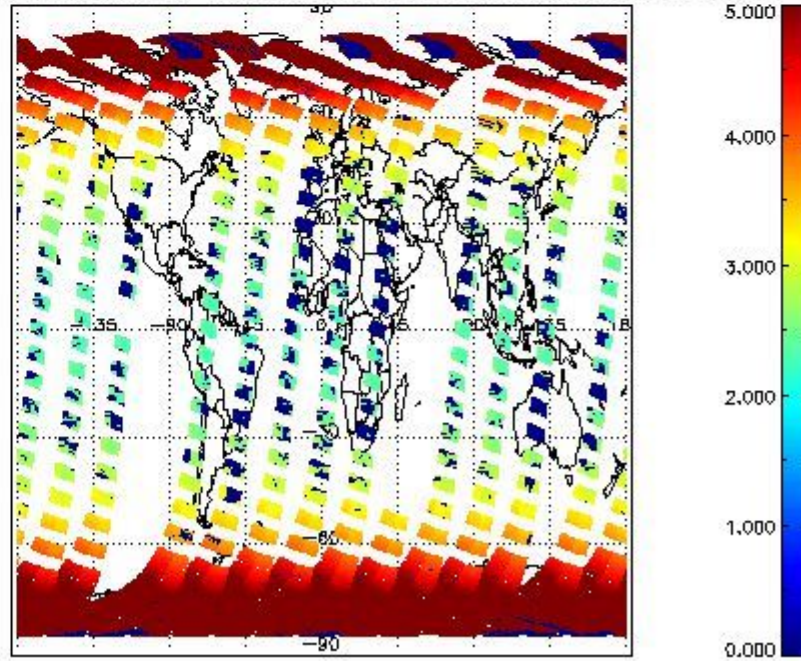
SCIOL2P_NADUV3BRO_vcd_err for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



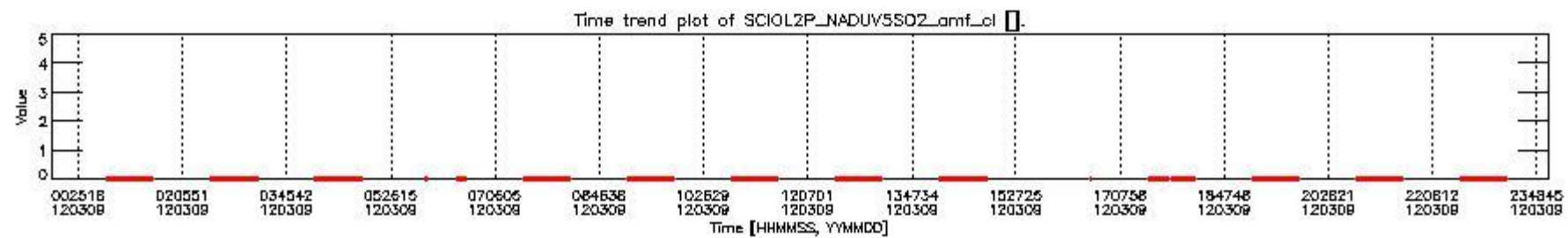
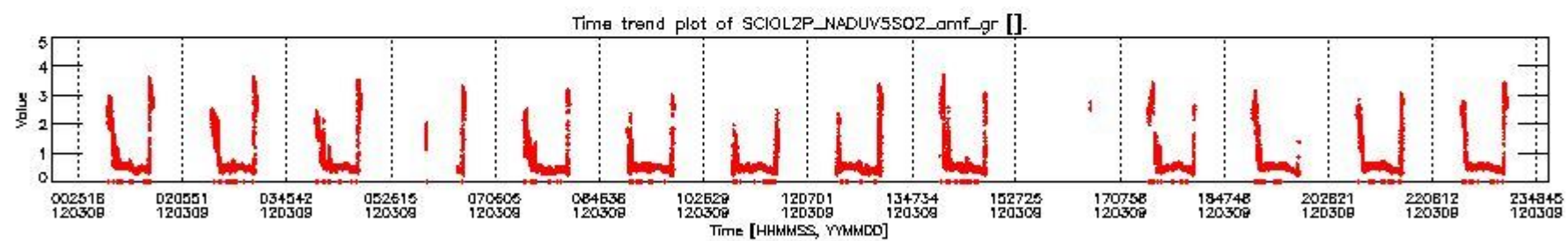
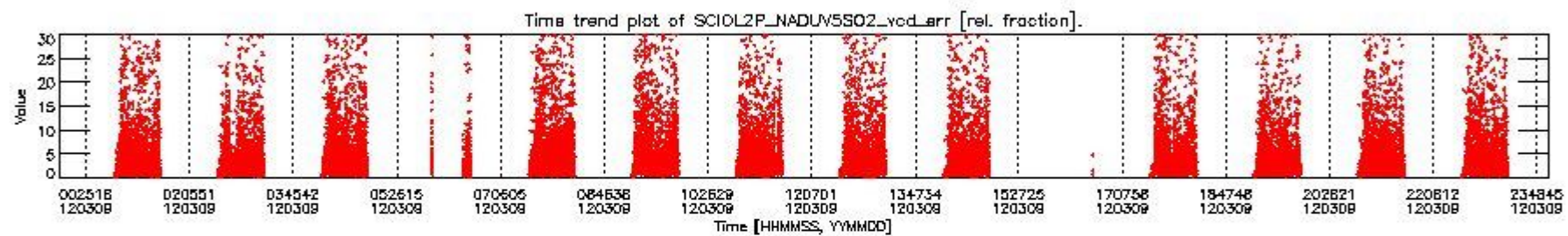
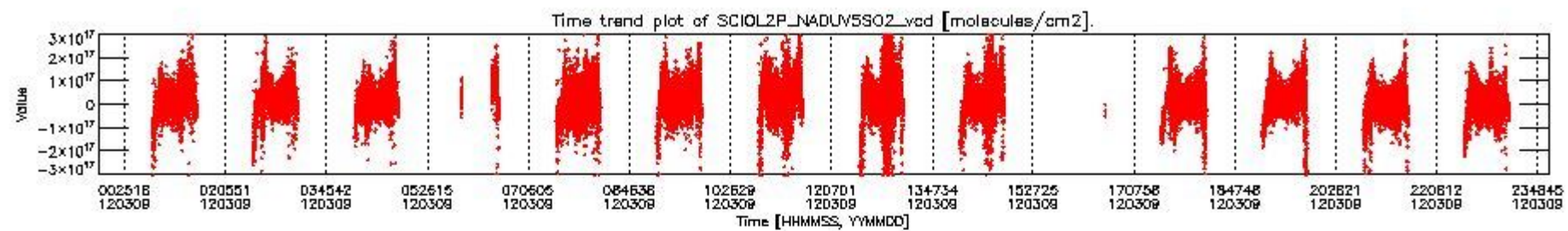
SCIOL2P_NADUV3BRO_amf_gr for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



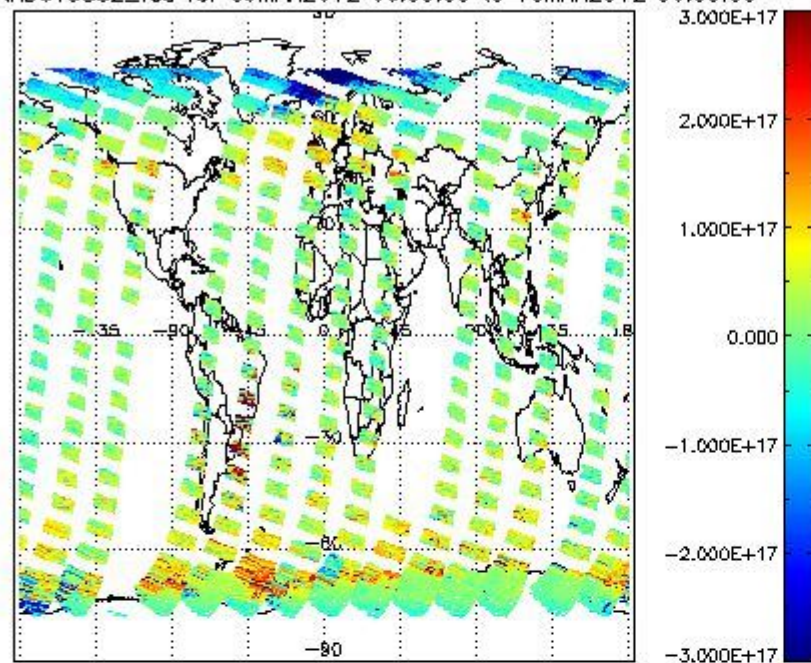
SCIOL2P_NADUV3BRO_amf_cl for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



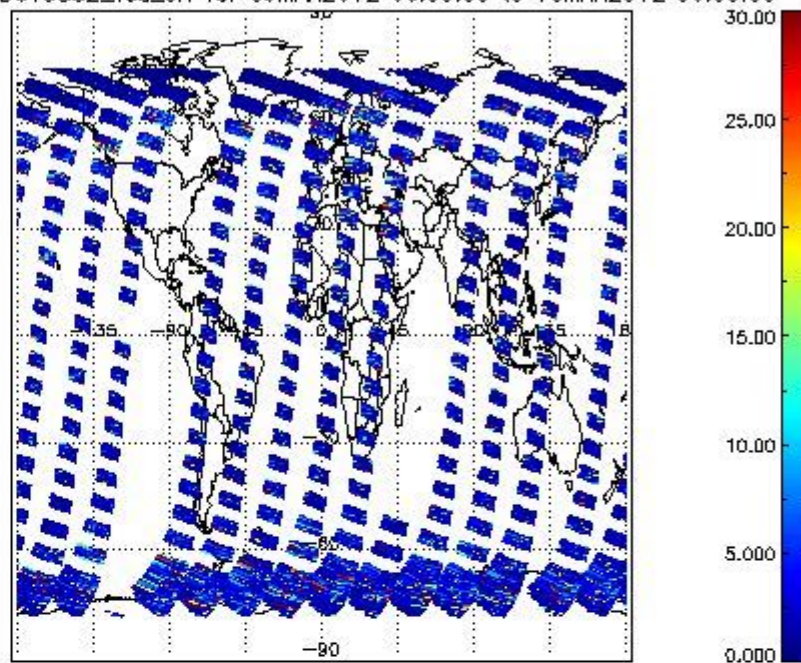
2.2.2.4 SO2 (UV5)



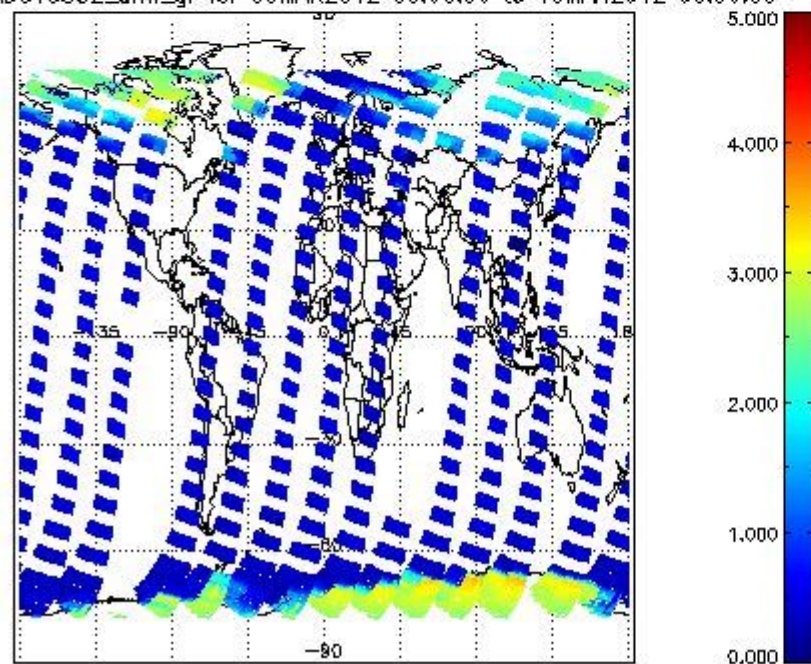
SCIOL2P_NADUV5SO2_vcd for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



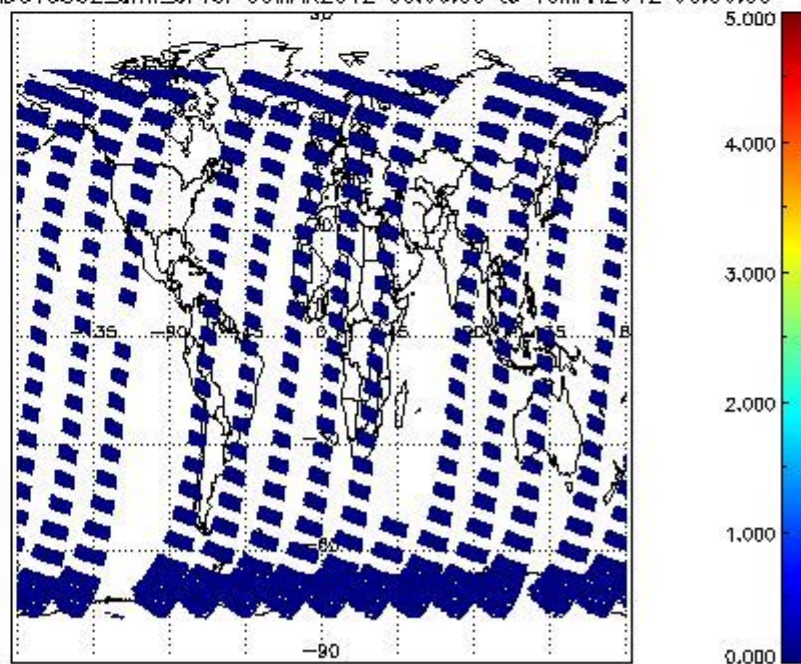
SCIOL2P_NADUV5SO2_vcd_err for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



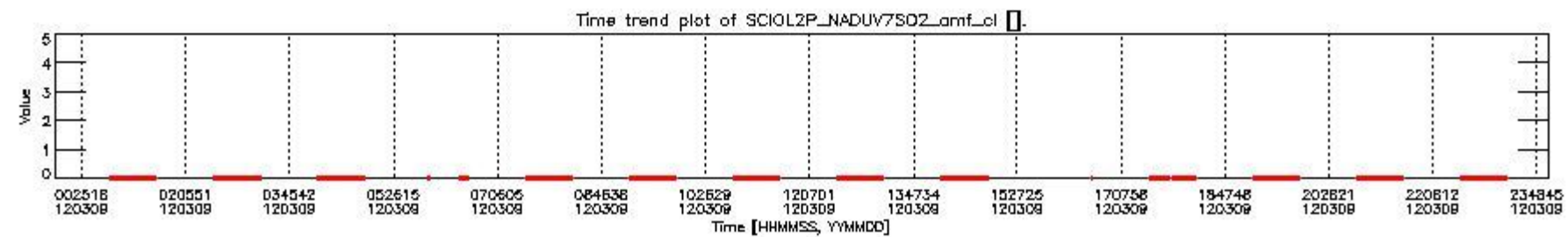
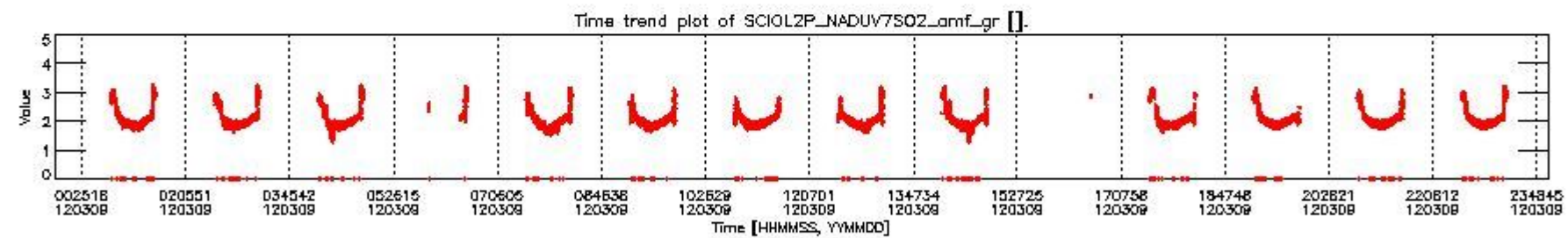
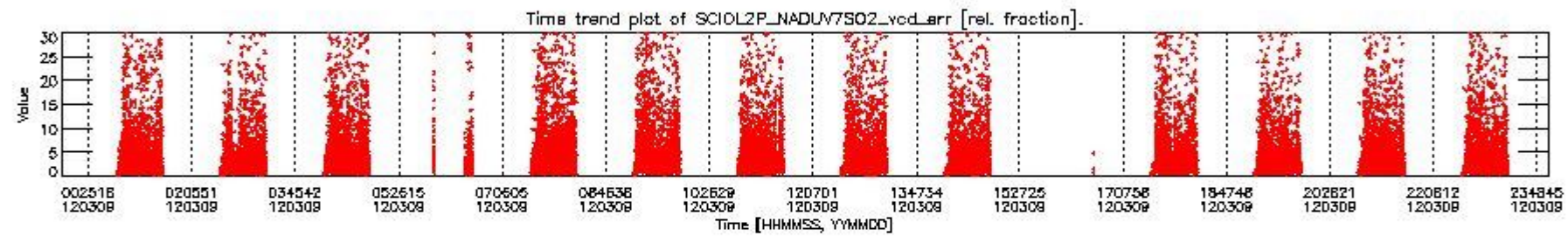
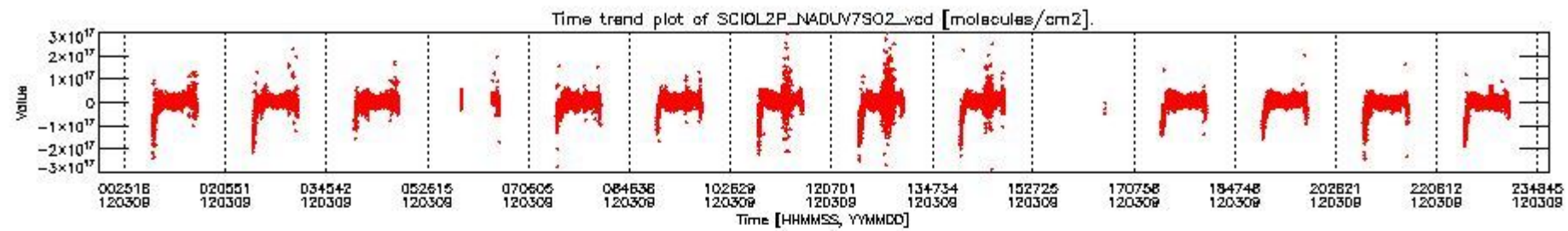
SCIOL2P_NADUV5SO2_amf_gr for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



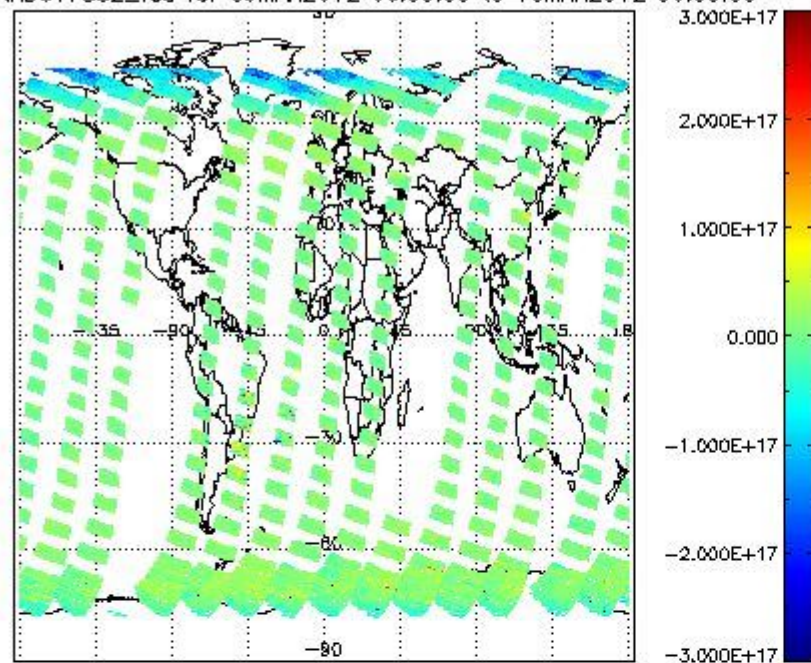
SCIOL2P_NADUV5SO2_amf_cl for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



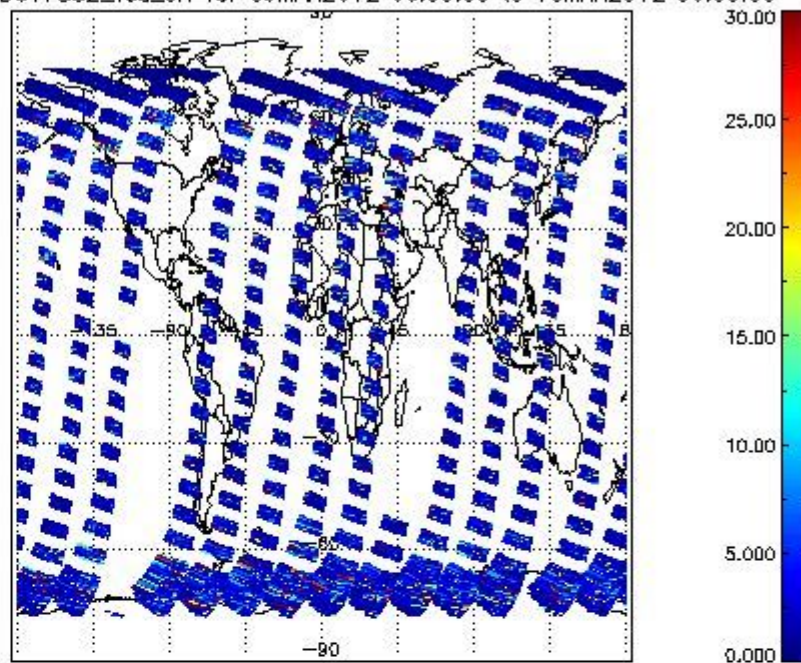
2.2.2.5 SO2 (UV7)



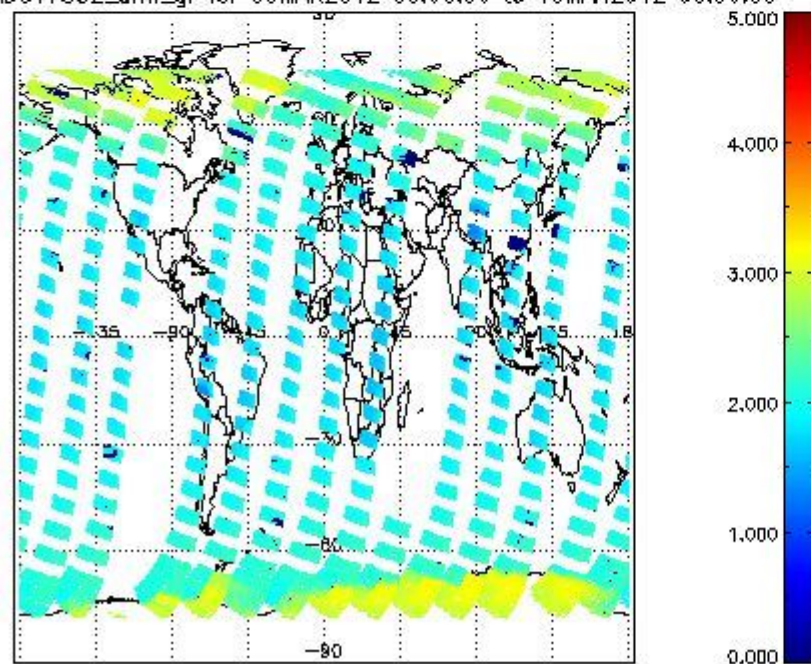
SCIOL2P_NADUV7S02_vcd for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



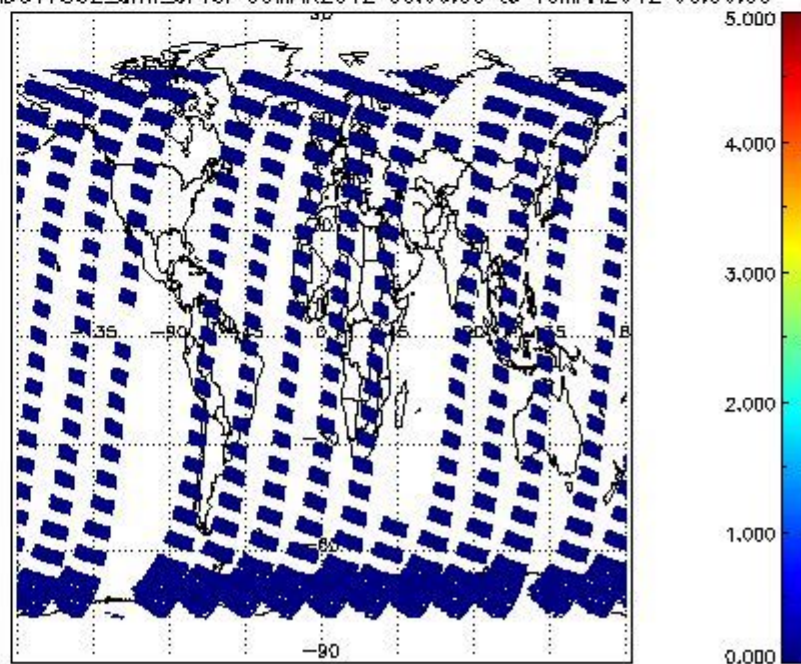
SCIOL2P_NADUV7S02_vcd_err for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



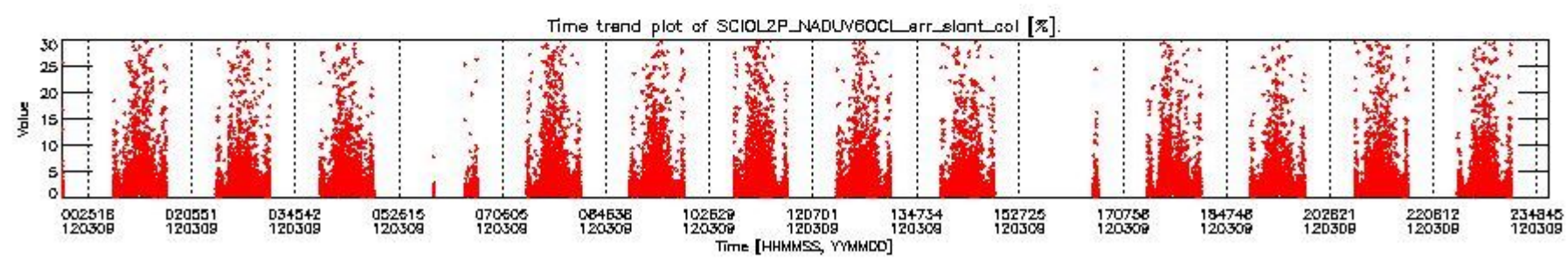
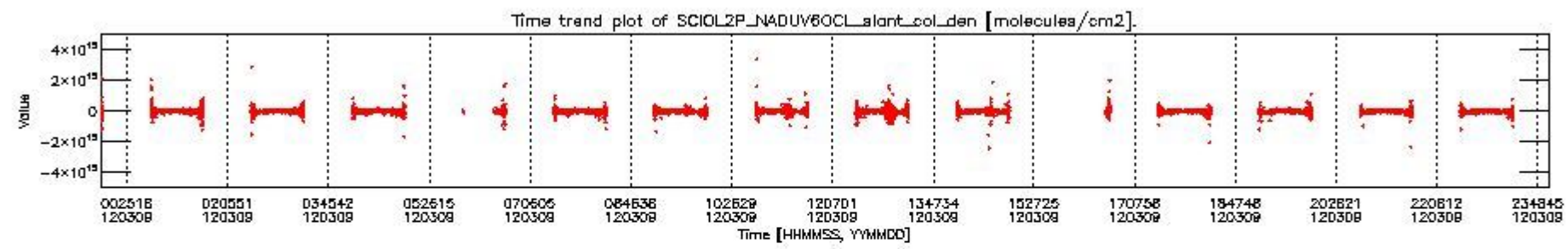
SCIOL2P_NADUV7S02_amf_gr for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



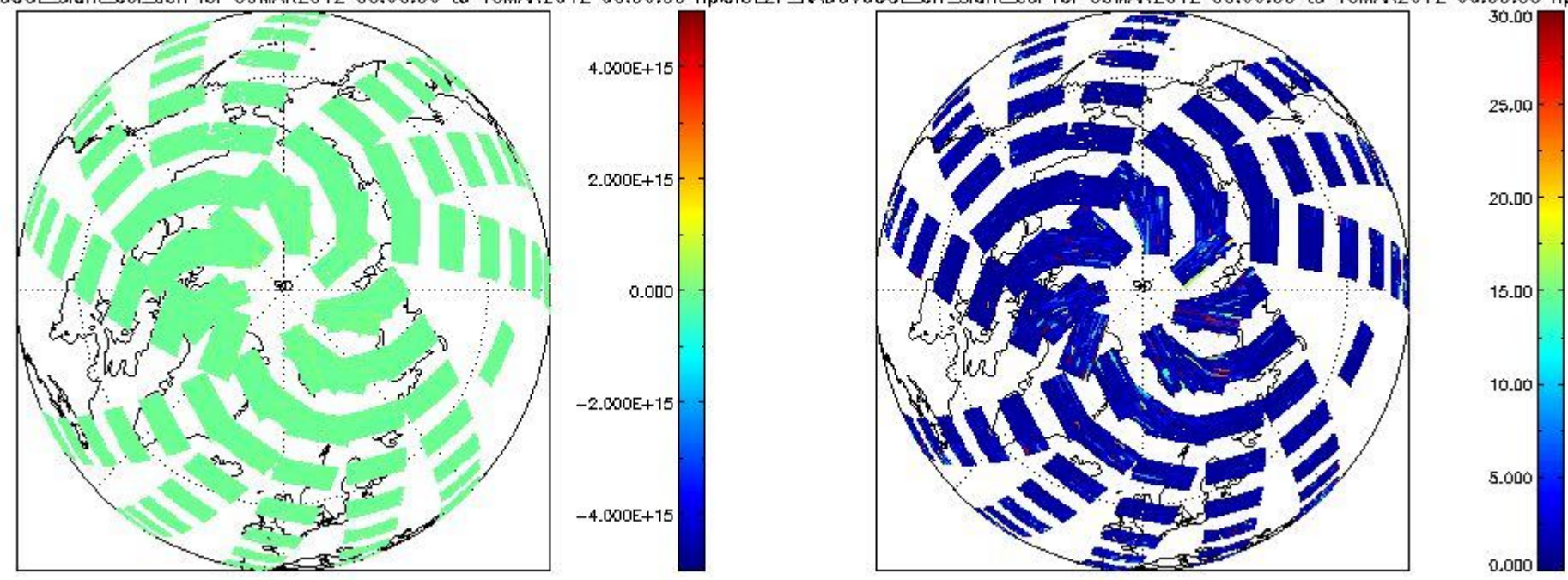
SCIOL2P_NADUV7S02_amf_cl for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



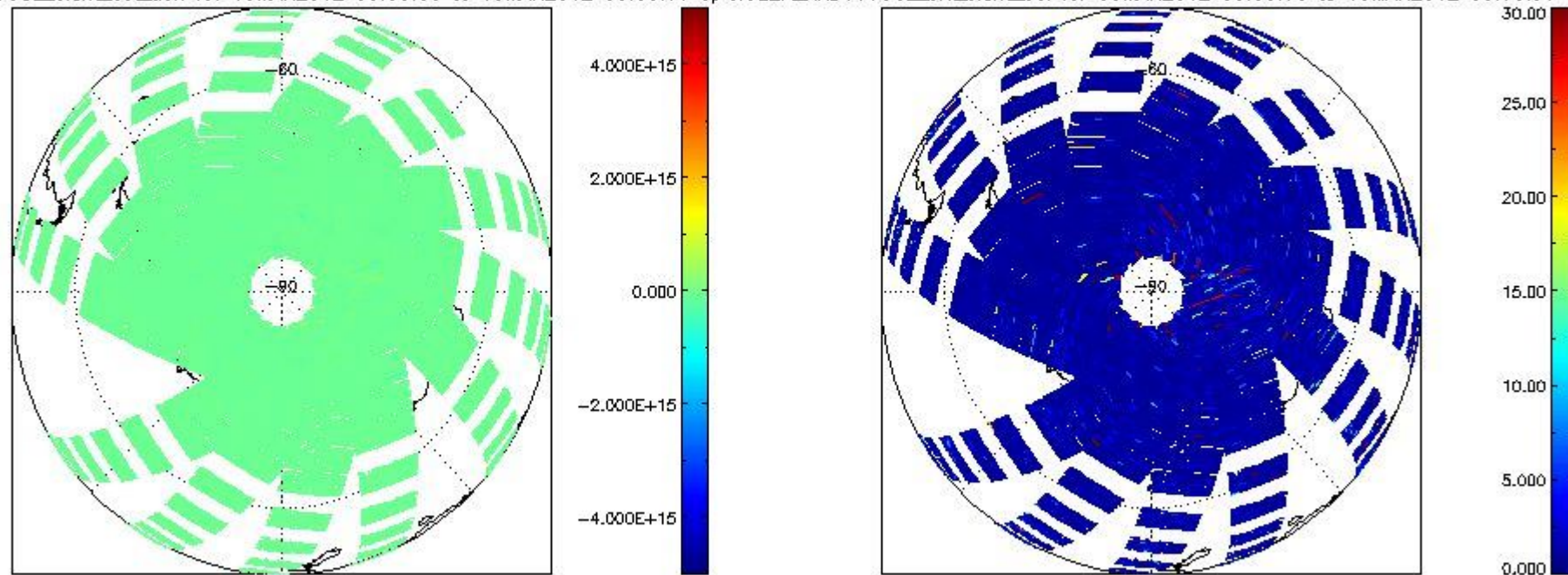
2.2.2.6 OCIO (UV6)



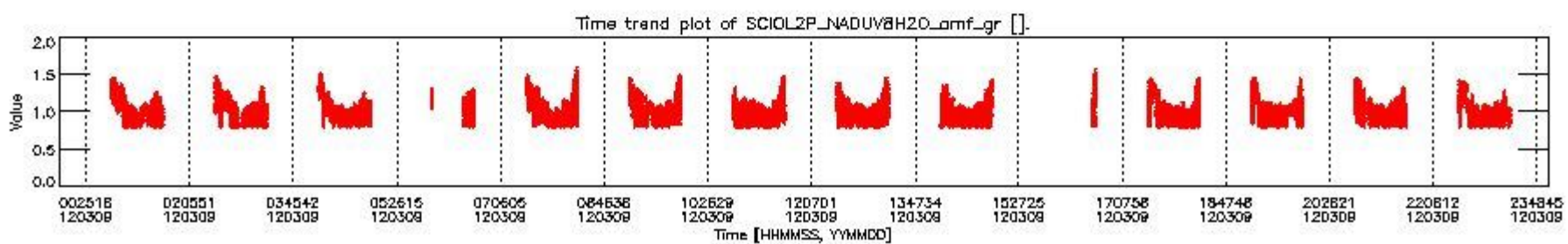
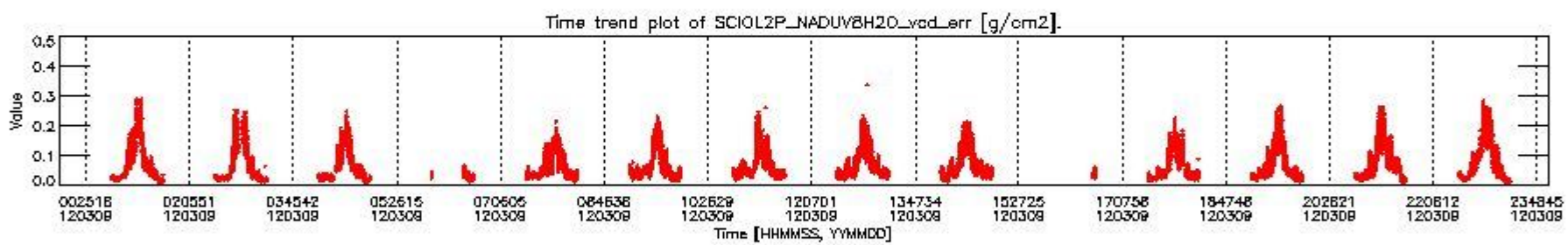
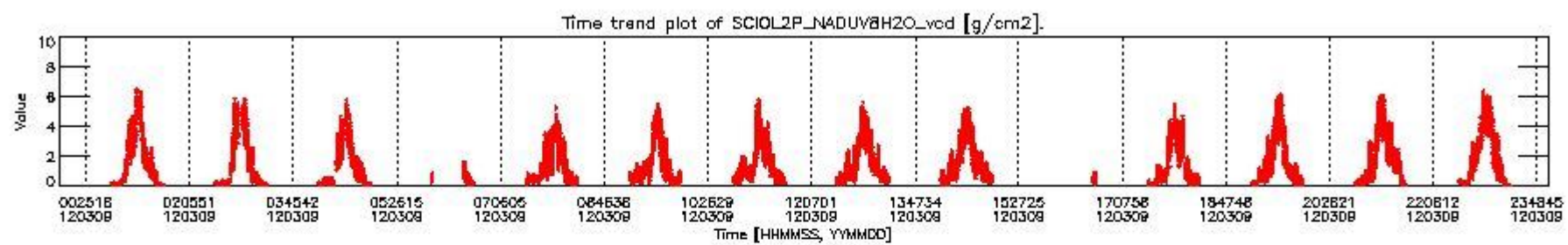
CIOL2P_NADUV6OCL_slant_col_den for 09MAR2012 00:00:00 to 10MAR2012 00:00:00 np CIOL2P_NADUV6OCL_err_slant_col for 09MAR2012 00:00:00 to 10MAR2012 00:00:00 np



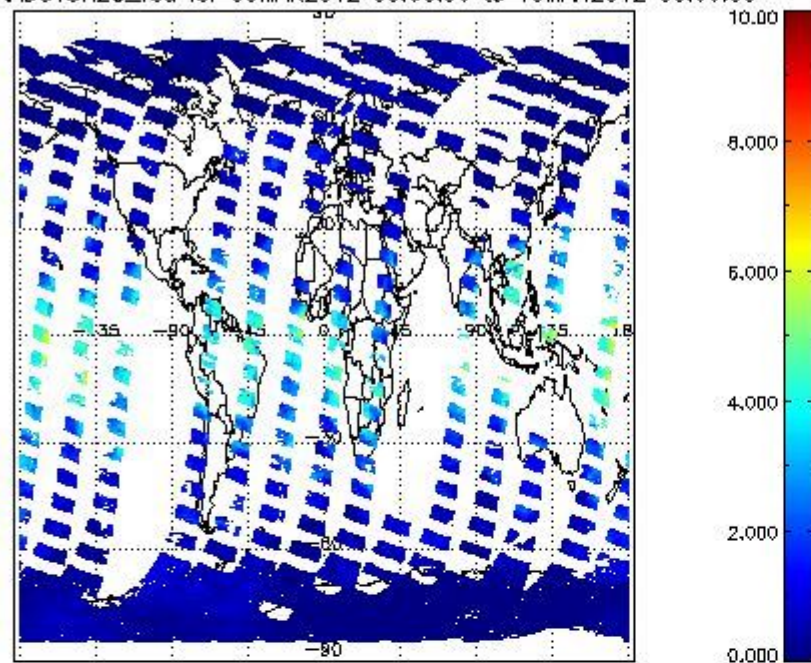
CIOL2P_NADUV6OCL_slant_colDen for 09MAR2012 00:00:00 to 10MAR2012 00:00:00 sp:CIOL2P_NADUV6OCL_err_slant_col for 09MAR2012 00:00:00 to 10MAR2012 00:00:00 sp



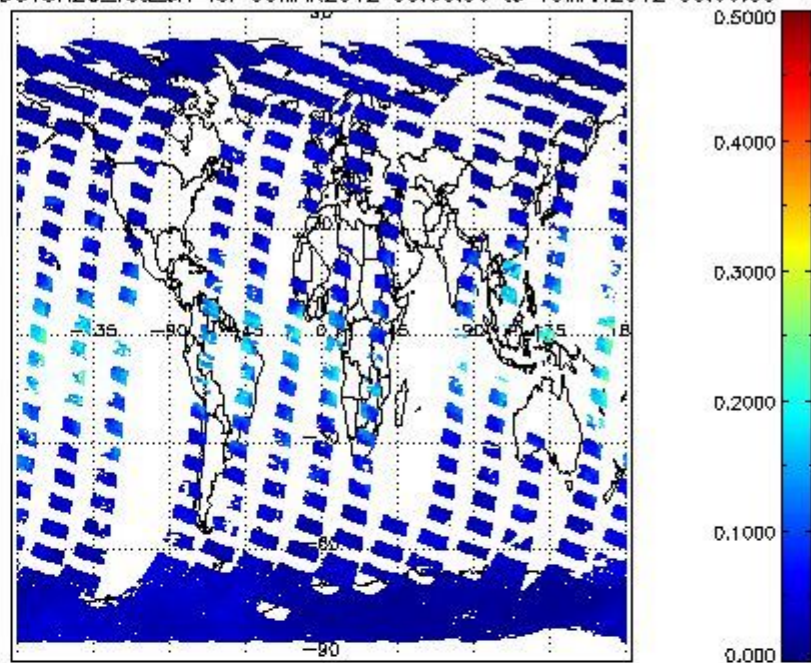
2.2.2.7 H2O (UV8)



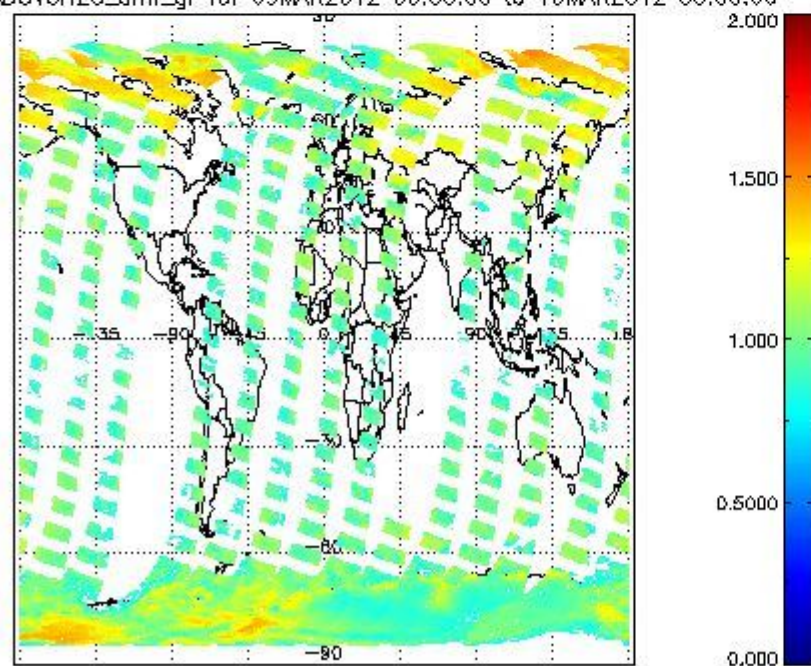
SCIOL2P_NADUV8H2O_vcd for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

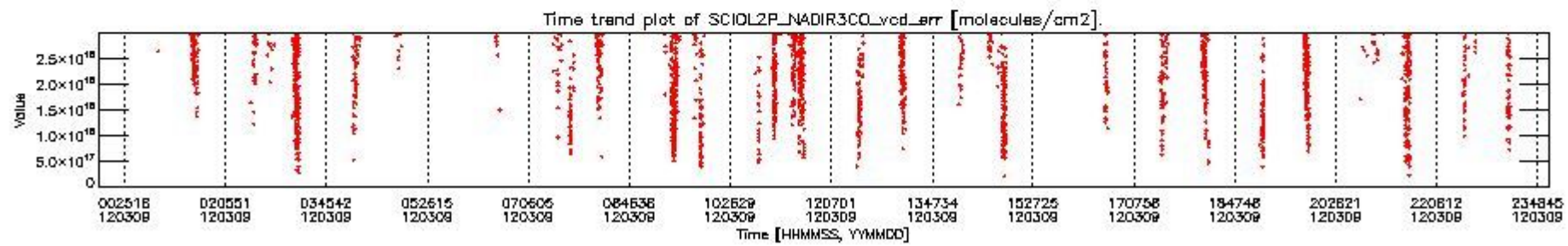
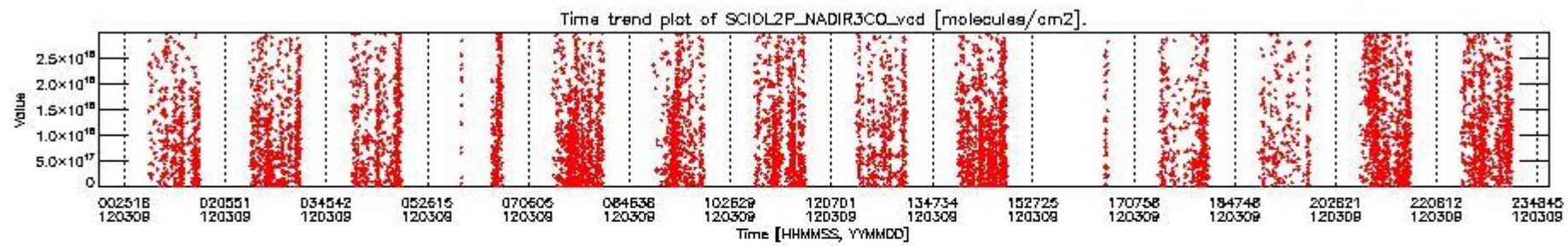


SCIOL2P_NADUV8H2O_vcd_err for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

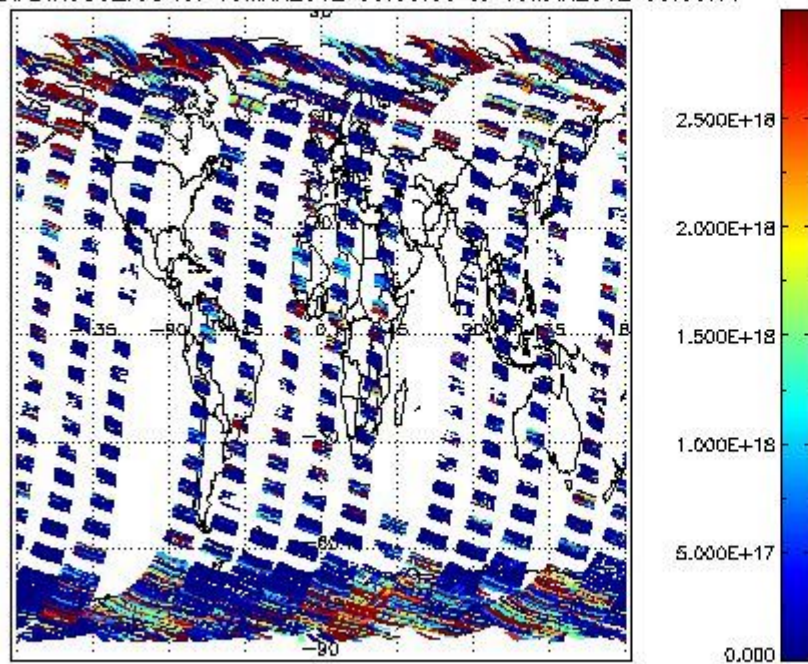


SCIOL2P_NADUV8H2O_amf_gr for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

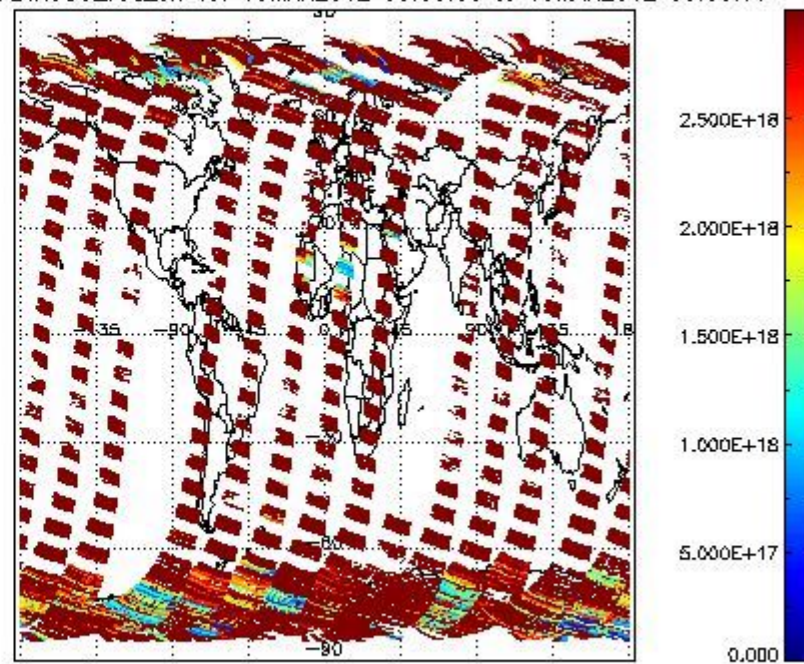




SCIDL2P_NADIR3CO_vcd for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



SCIDL2P_NADIR3CO_vcd_err for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



2.2.3 Limb

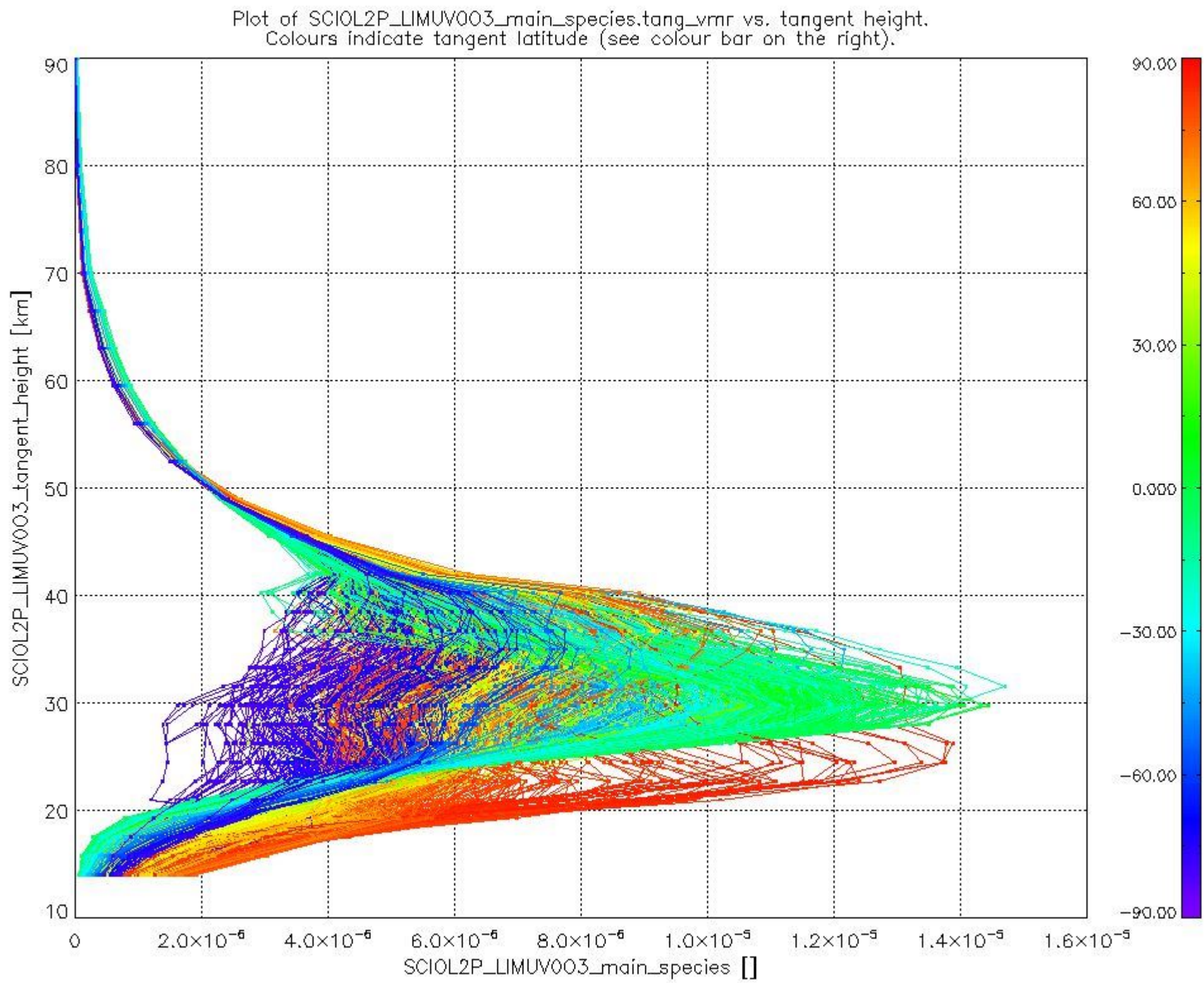
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

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

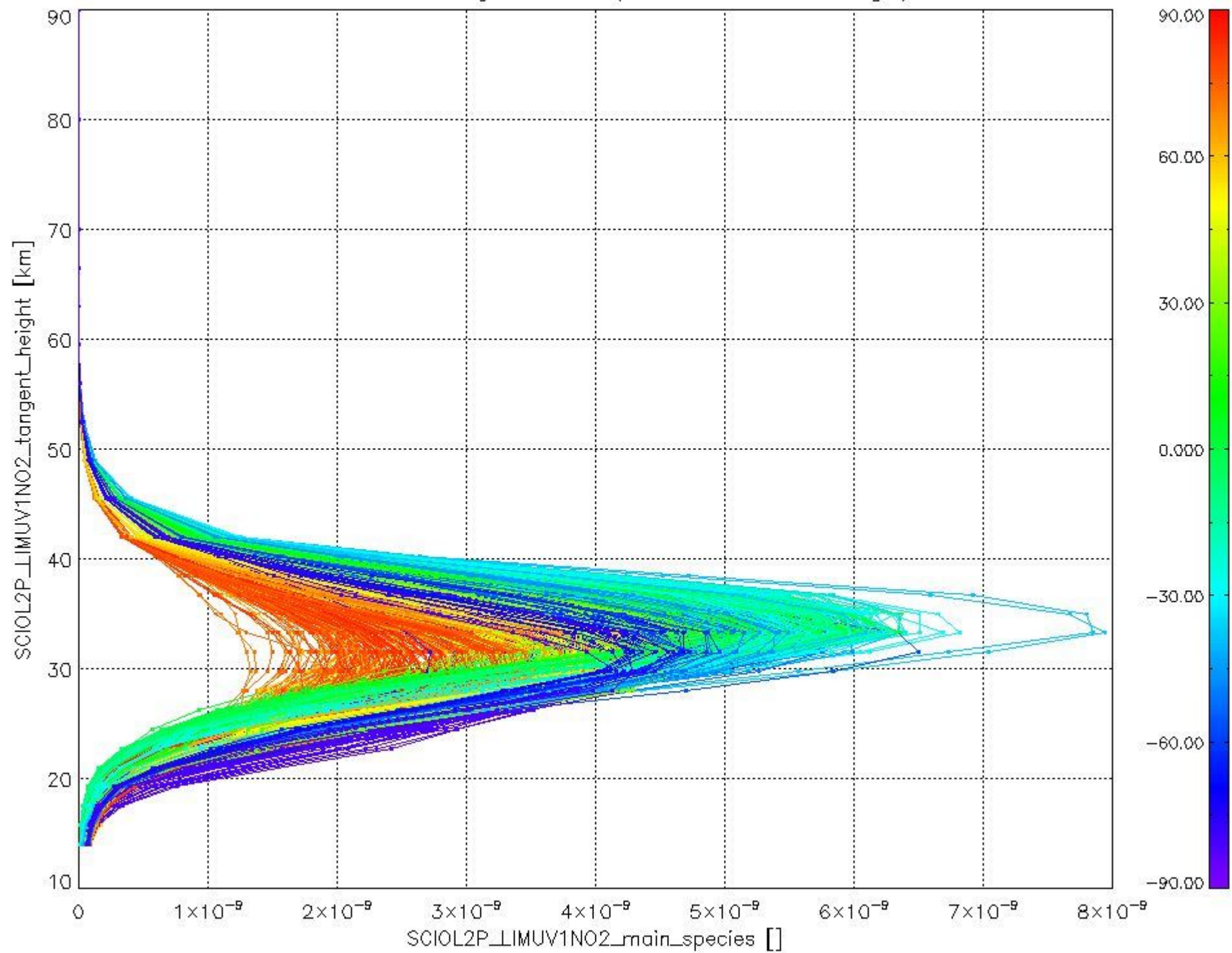
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



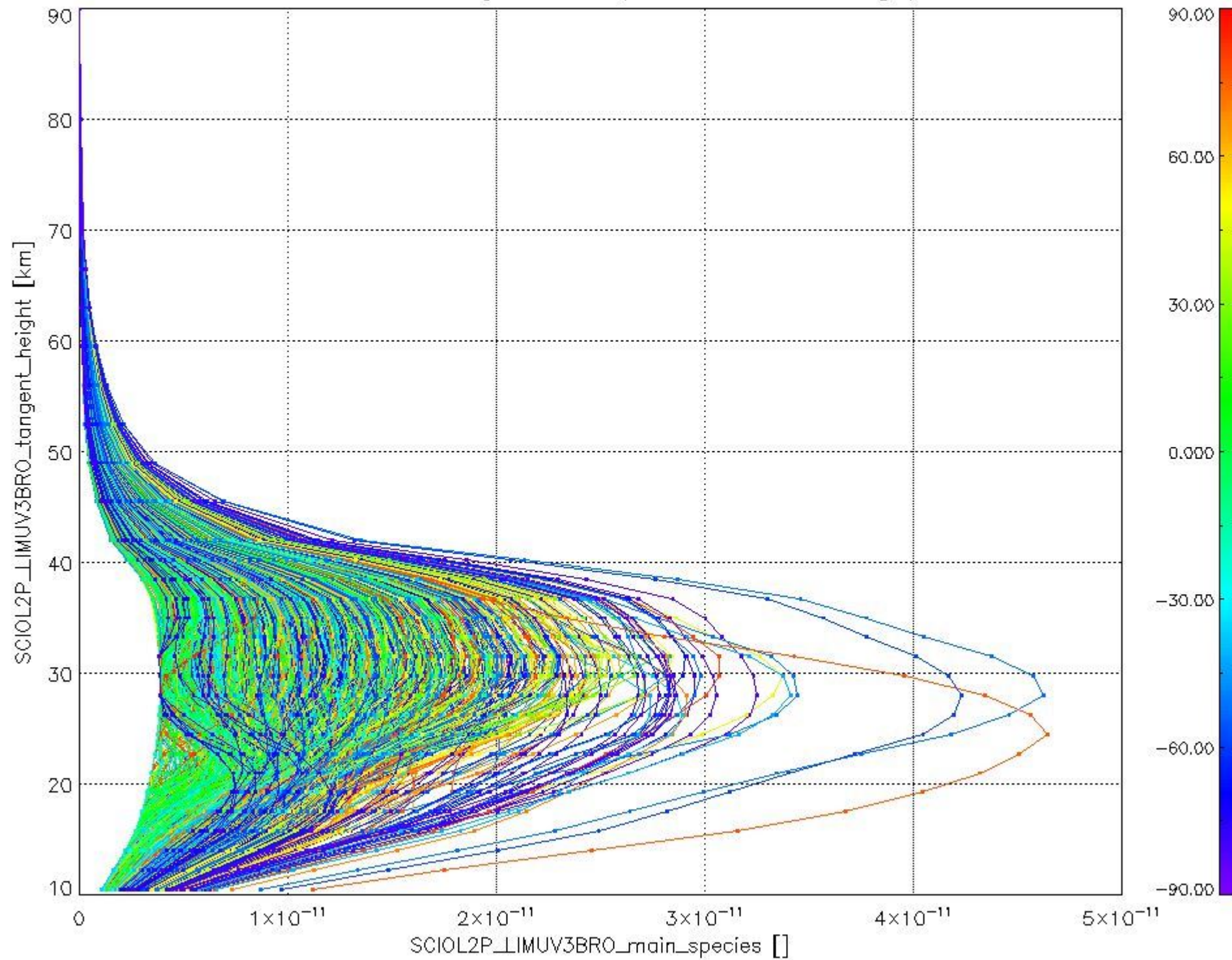
2.2.3.2 NO2 (UV1)

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)

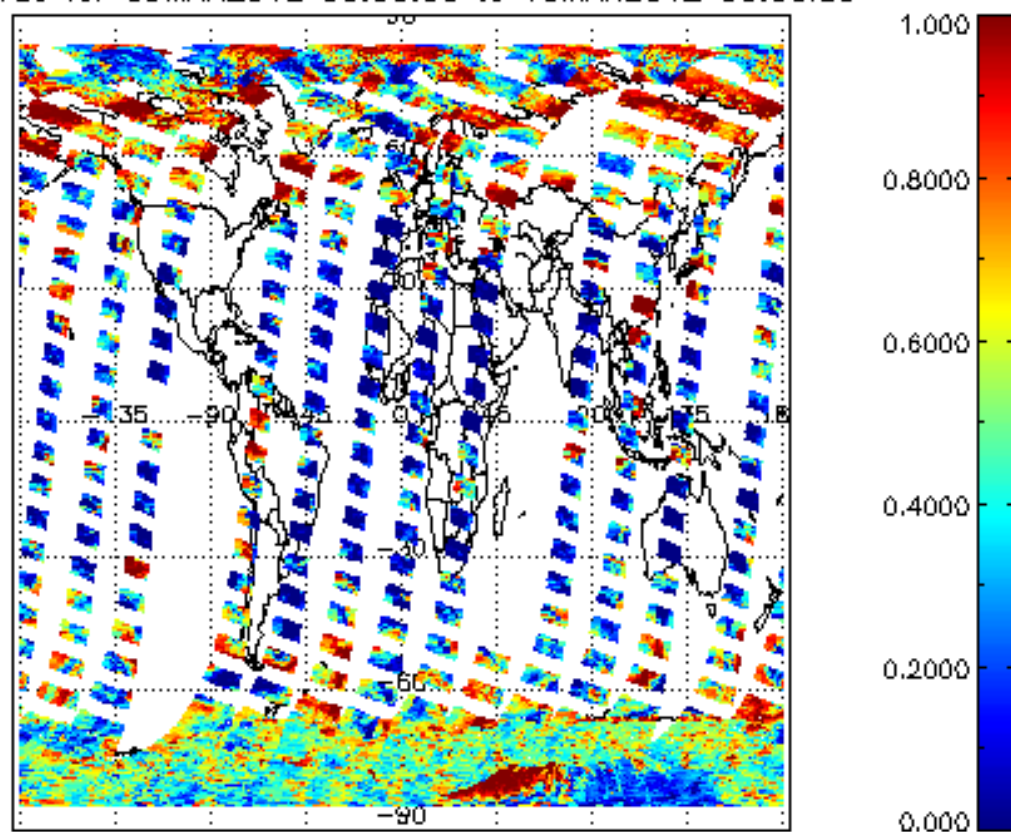
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



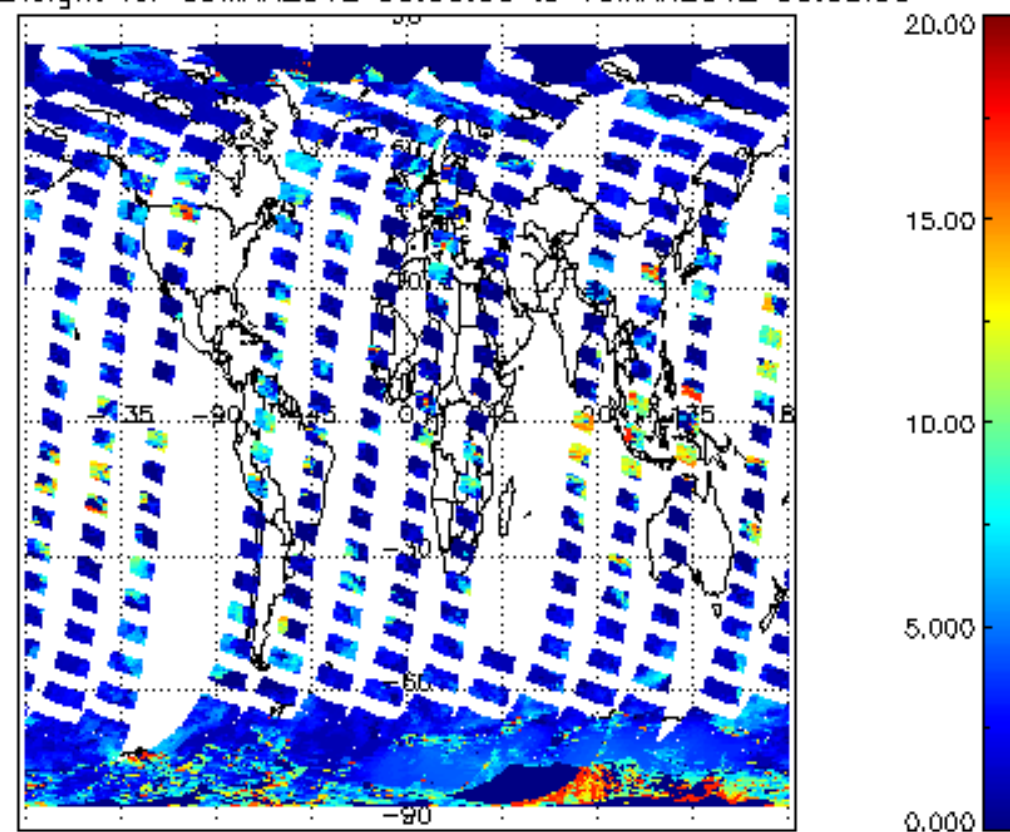
2.3 ADF monitoring

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_AXVIEC20120315_082408_20120308_190620_20120310_190620
3	SCI_MF1_AXVIEC20120315_082515_20120309_182934_20120311_182934

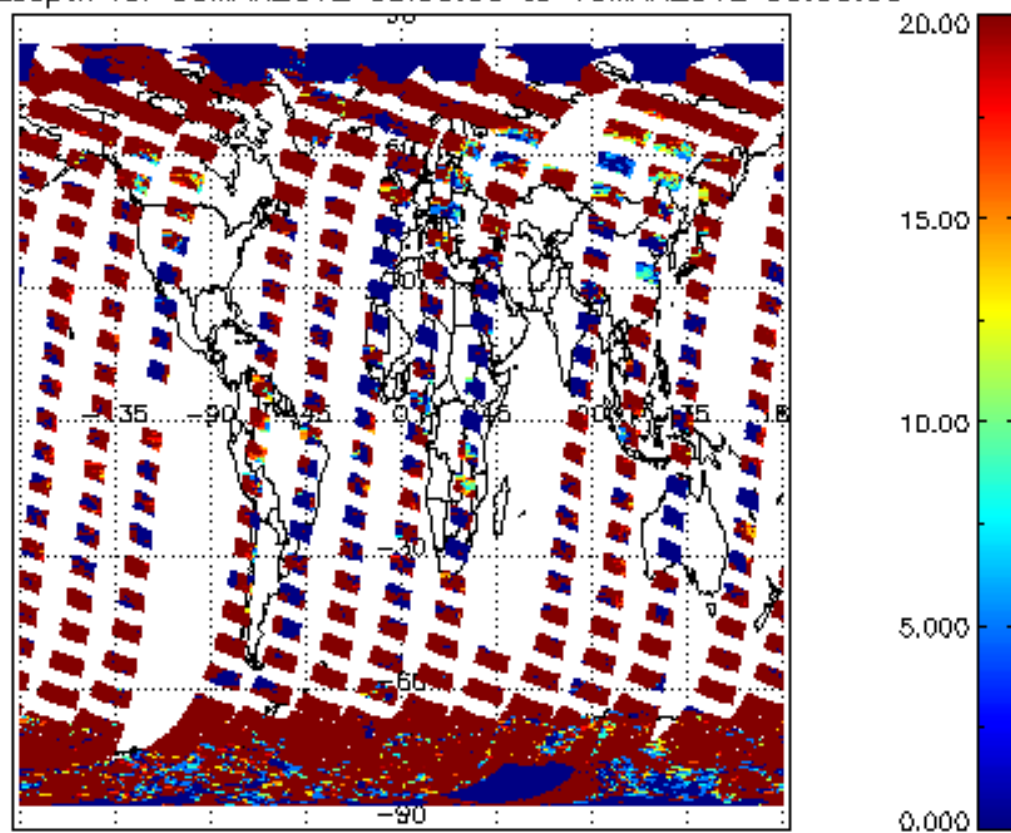
cL_frac for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



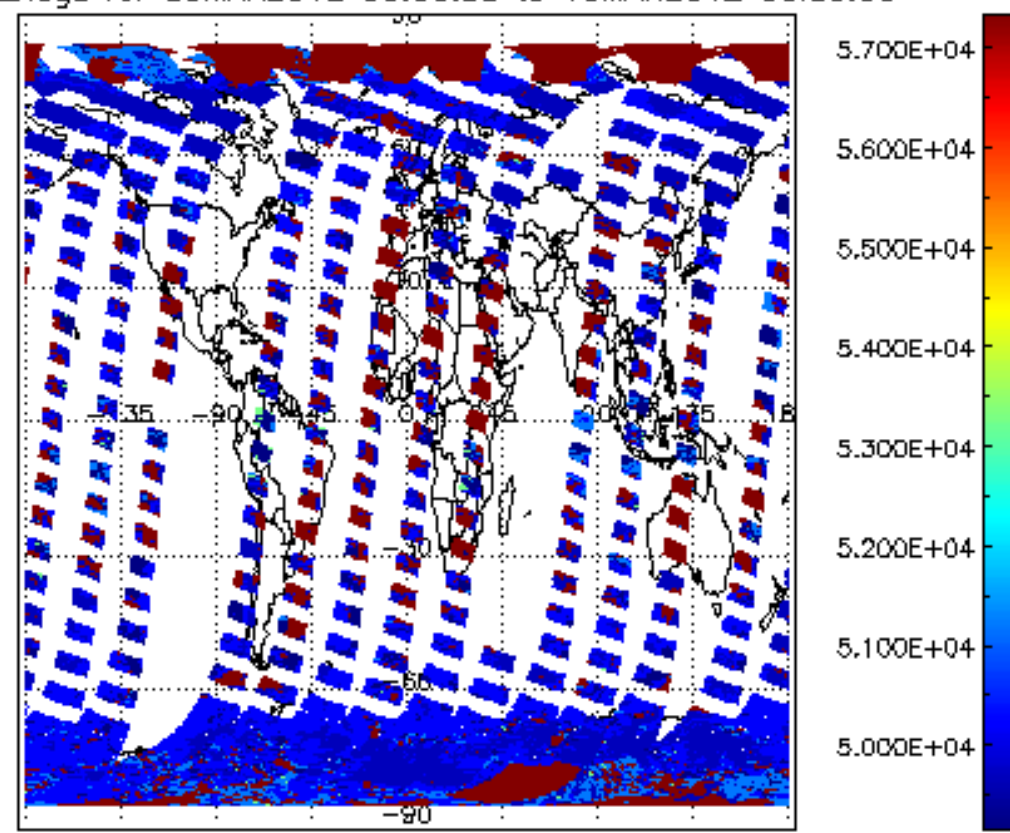
cL_top_height for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

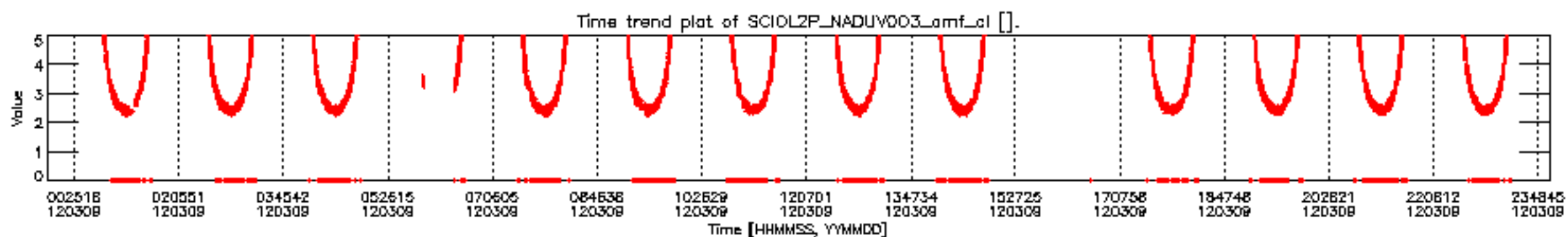
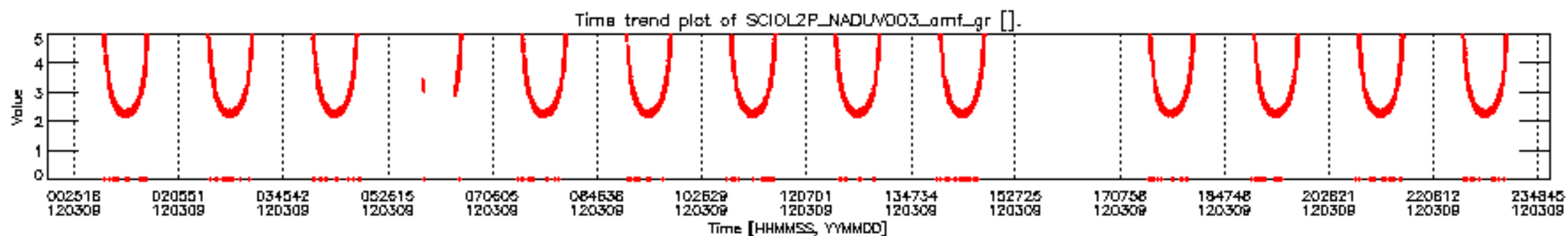
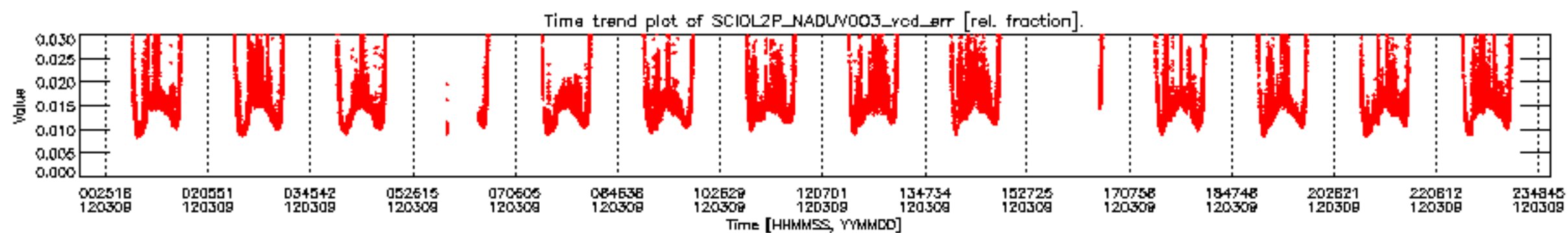
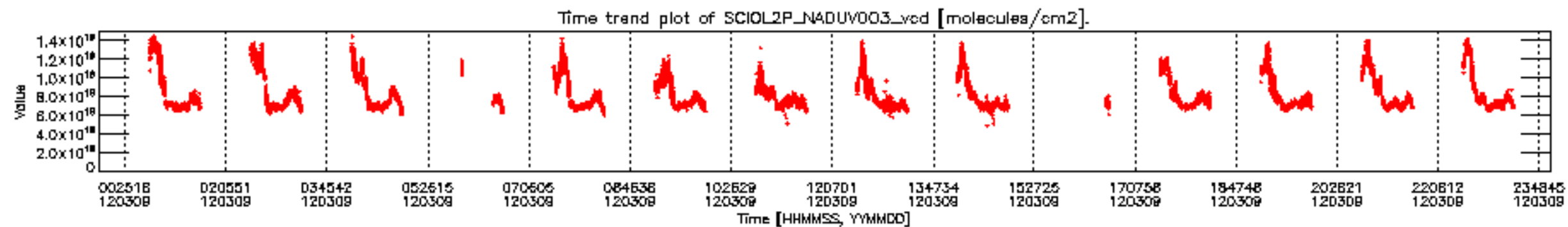


cL_opt_depth for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

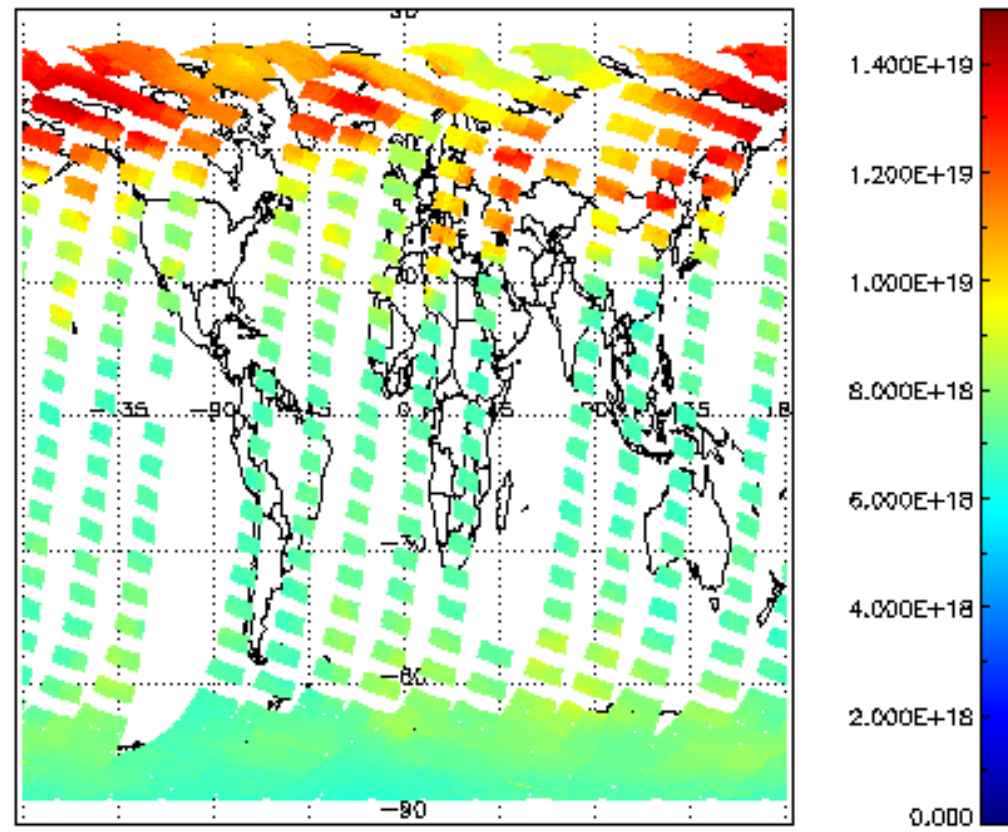


cloud_flags for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

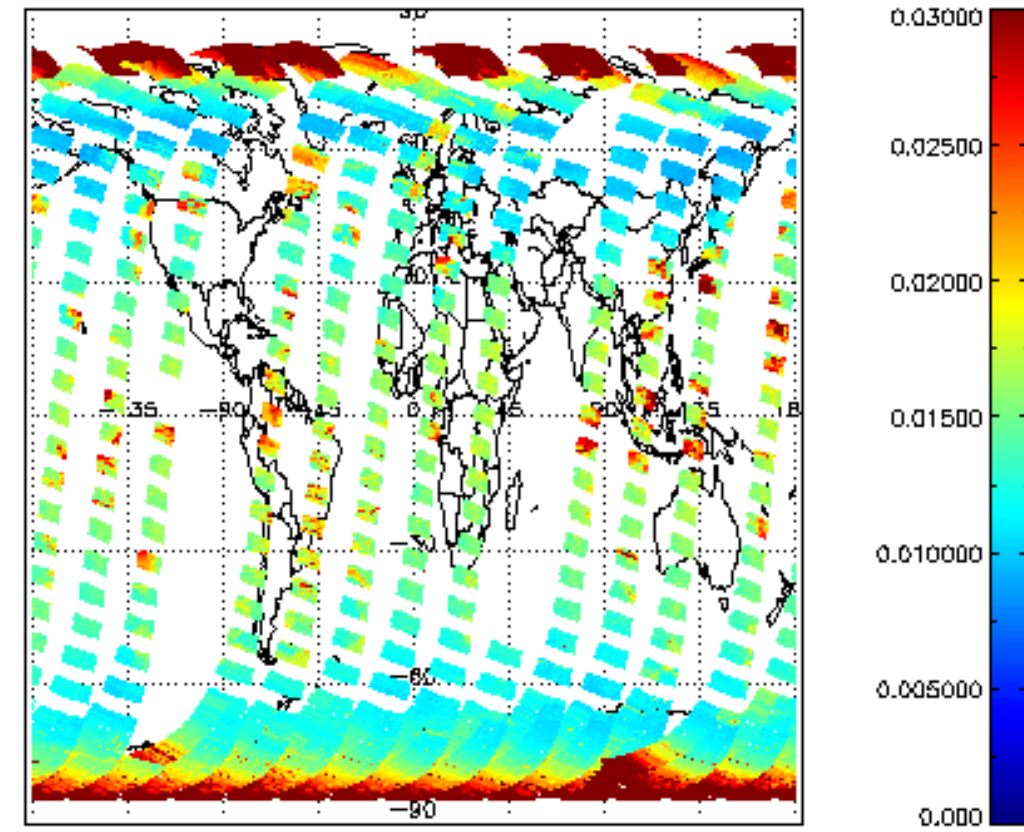




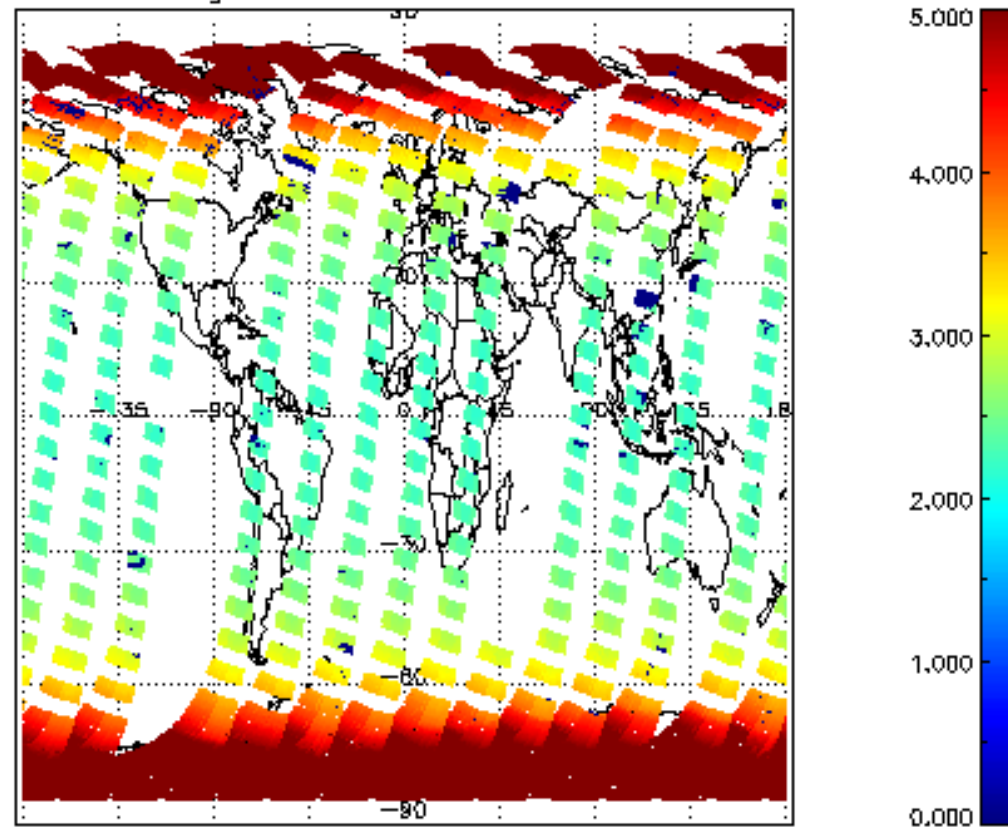
SCIOL2P_NADUV003_vcd for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



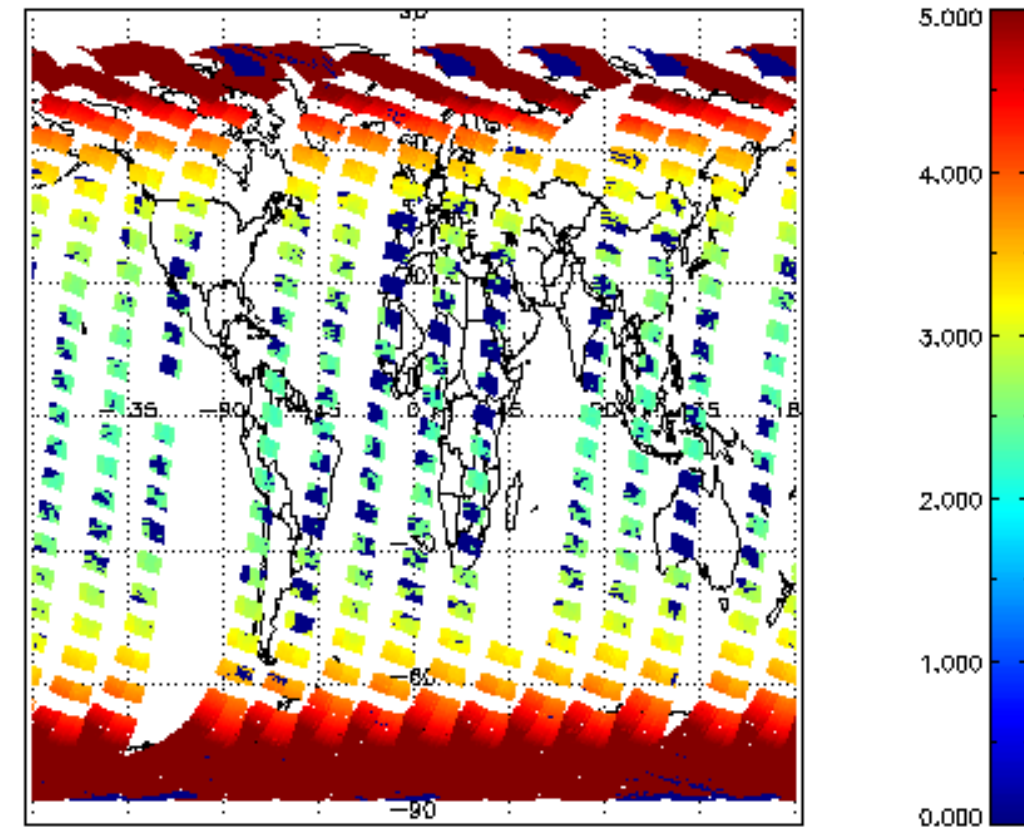
SCIOL2P_NADUV003_vcd_err for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

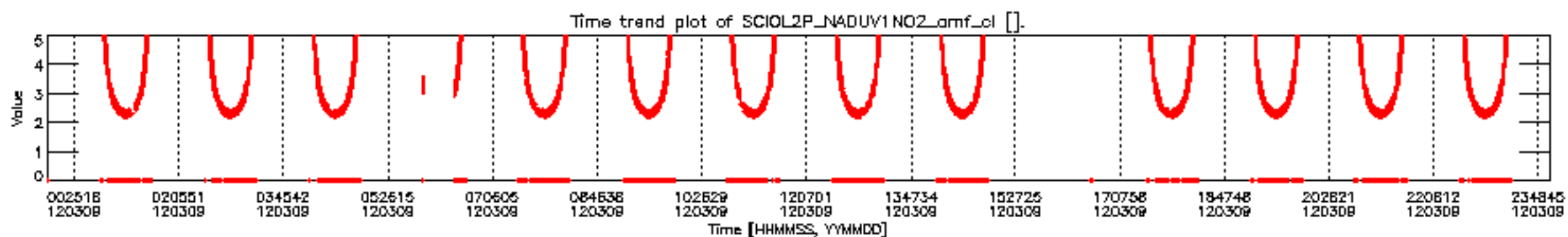
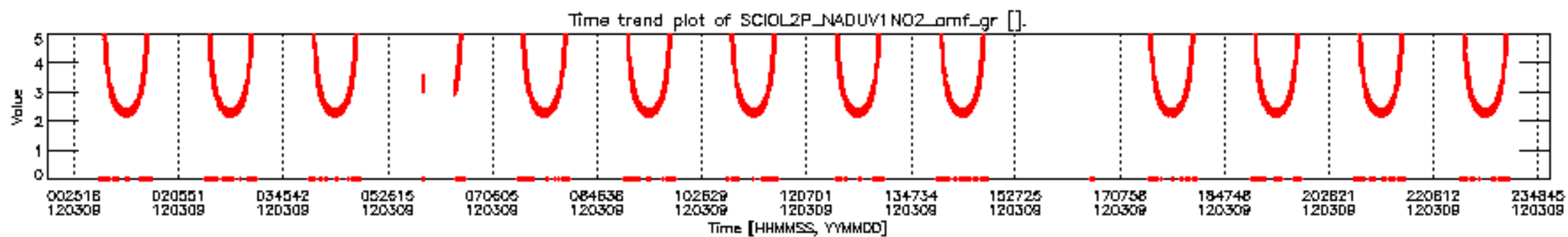
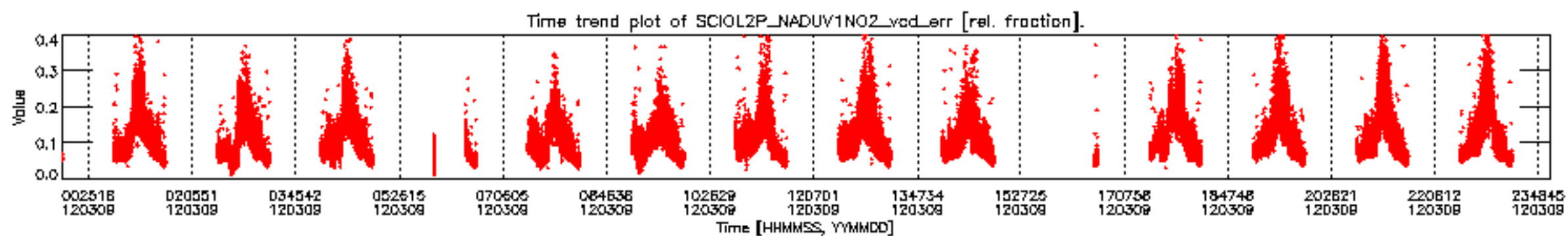
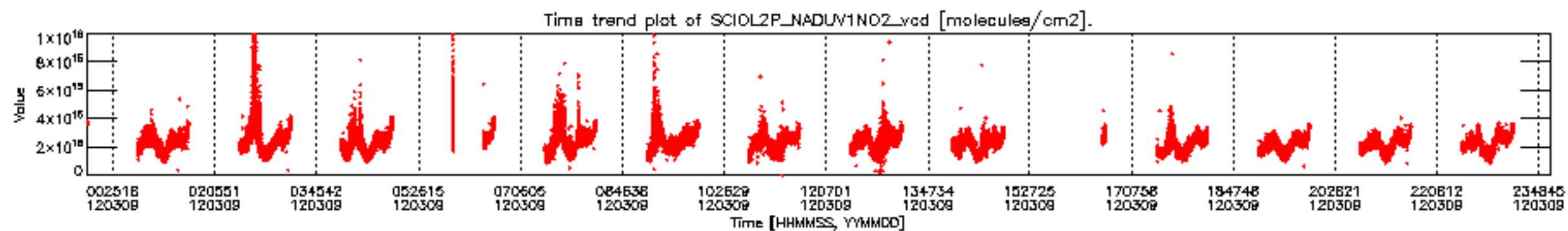


SCIOL2P_NADUV003_amf_gr for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

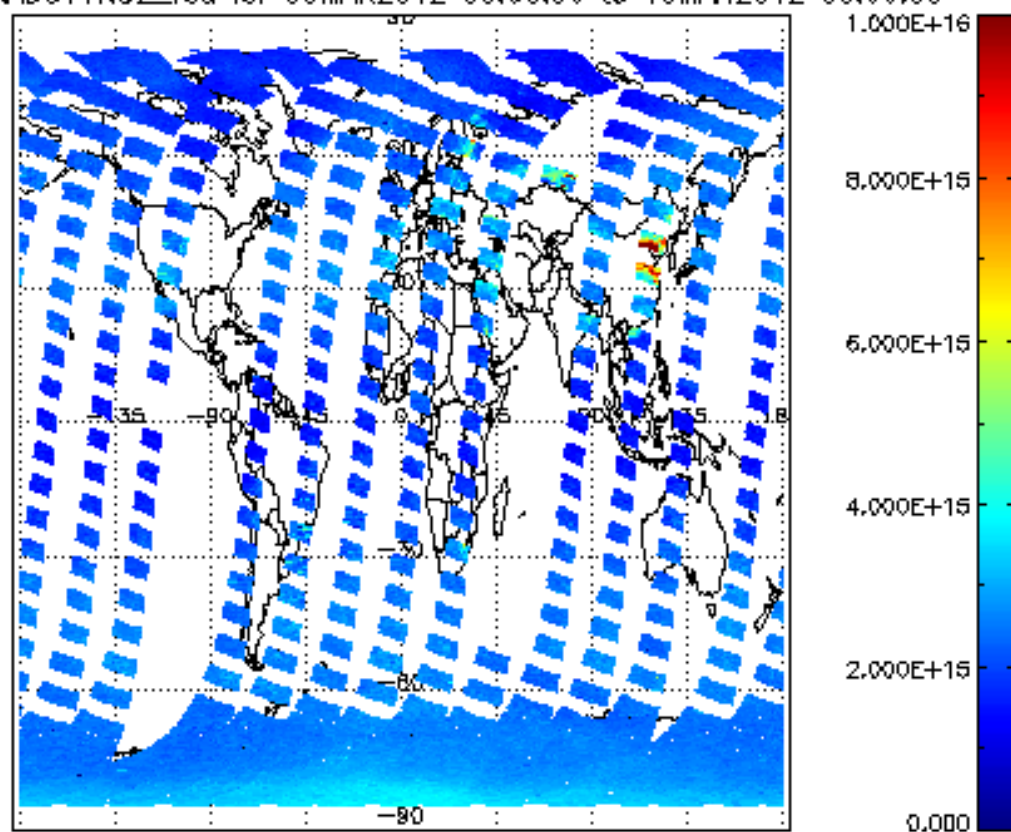


SCIOL2P_NADUV003_amf_cl for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

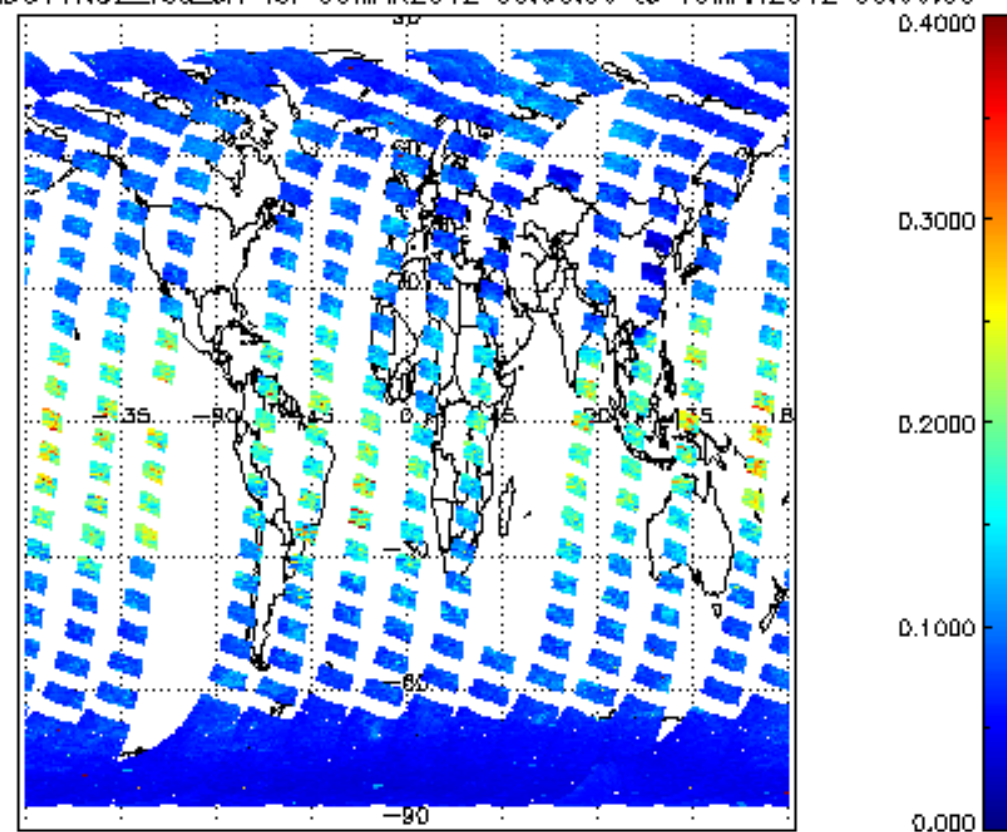




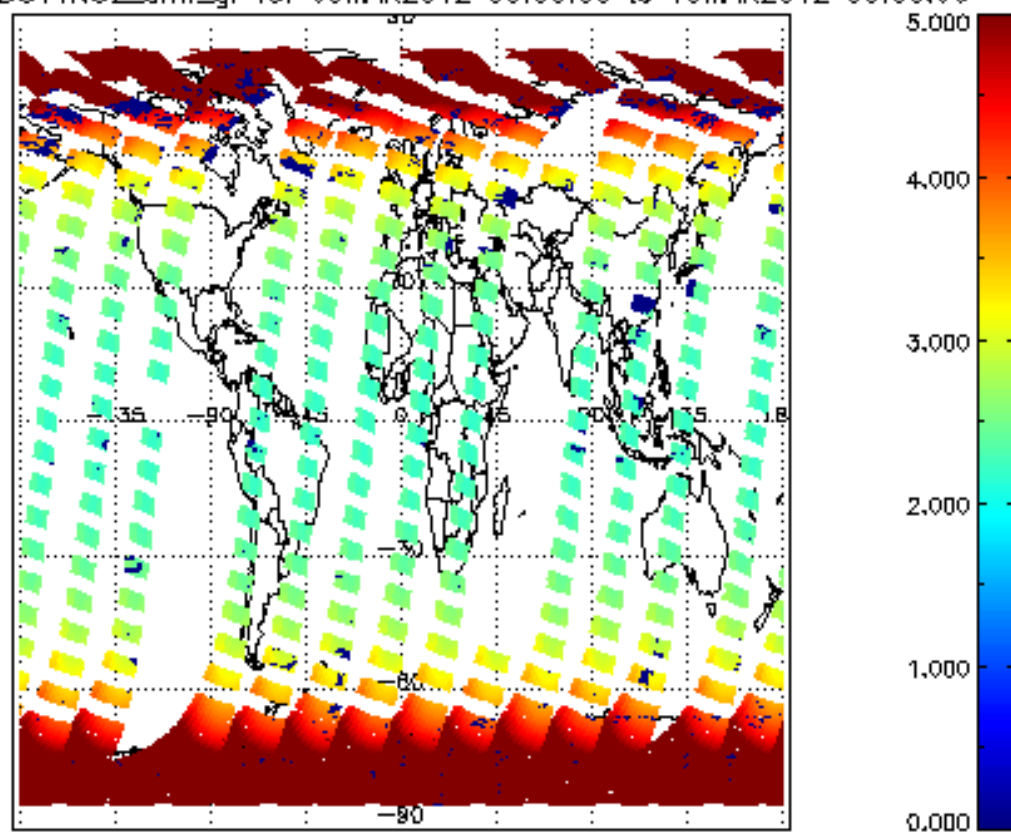
SCIOL2P_NADUV1NO2_vcd for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



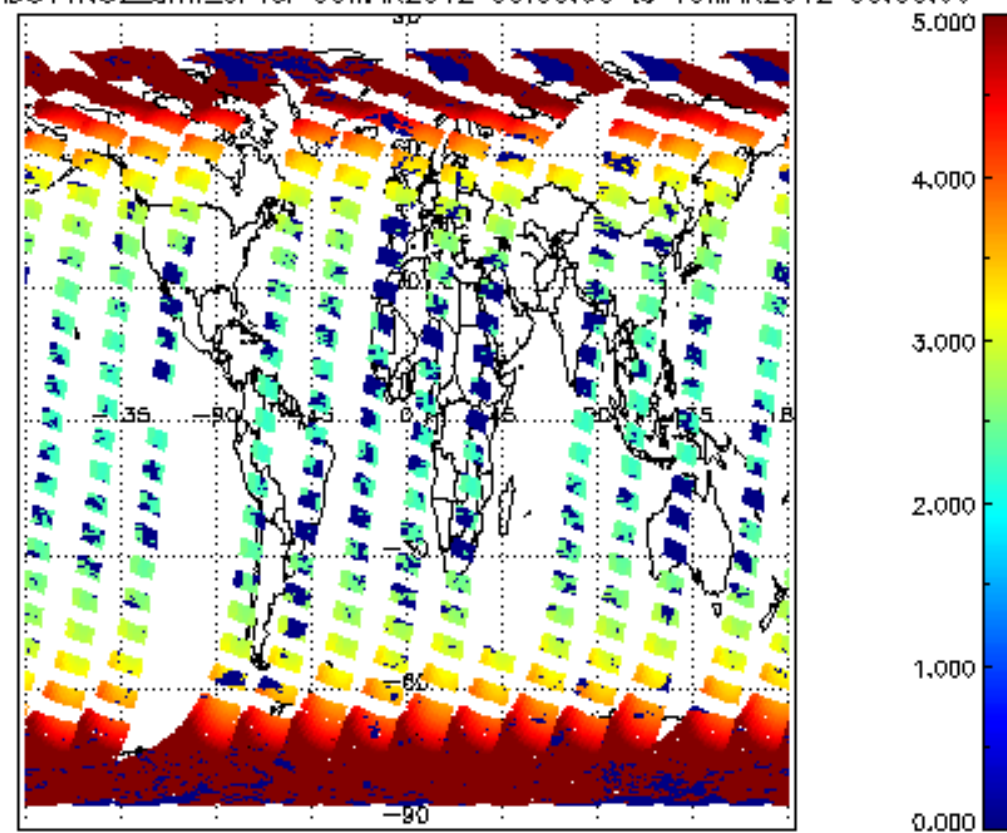
SCIOL2P_NADUV1NO2_vcd_err for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

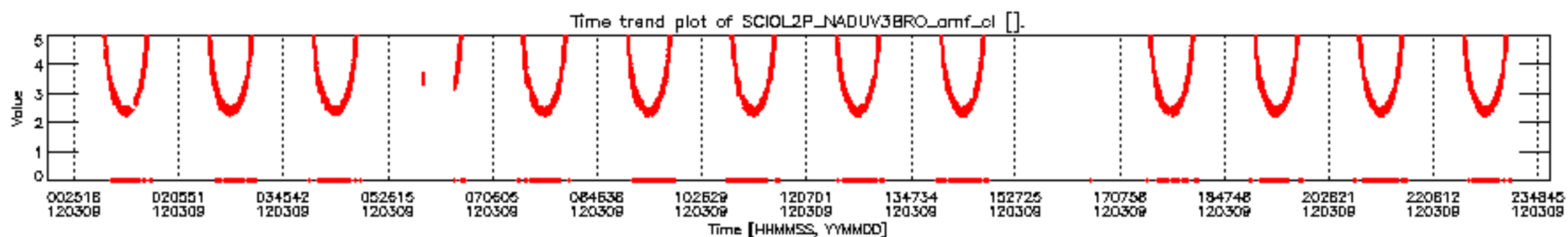
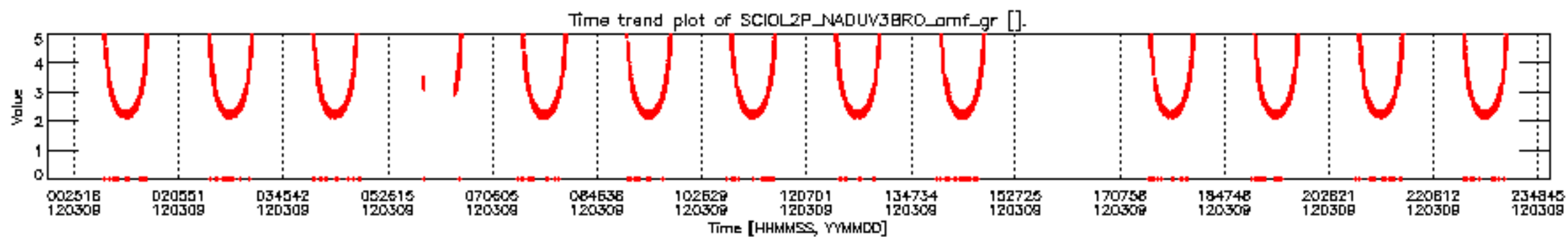
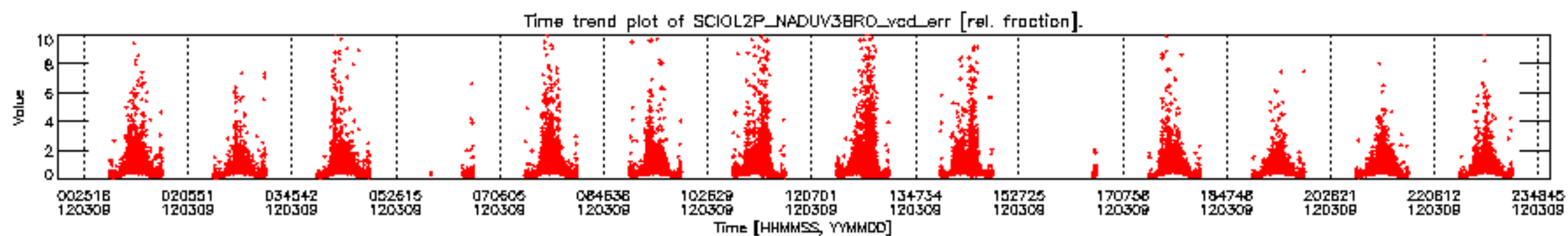
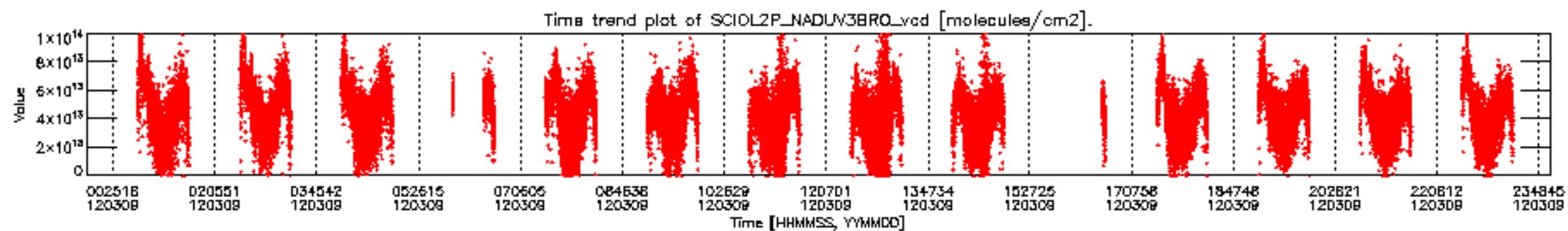


SCIOL2P_NADUV1NO2_amf_gr for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

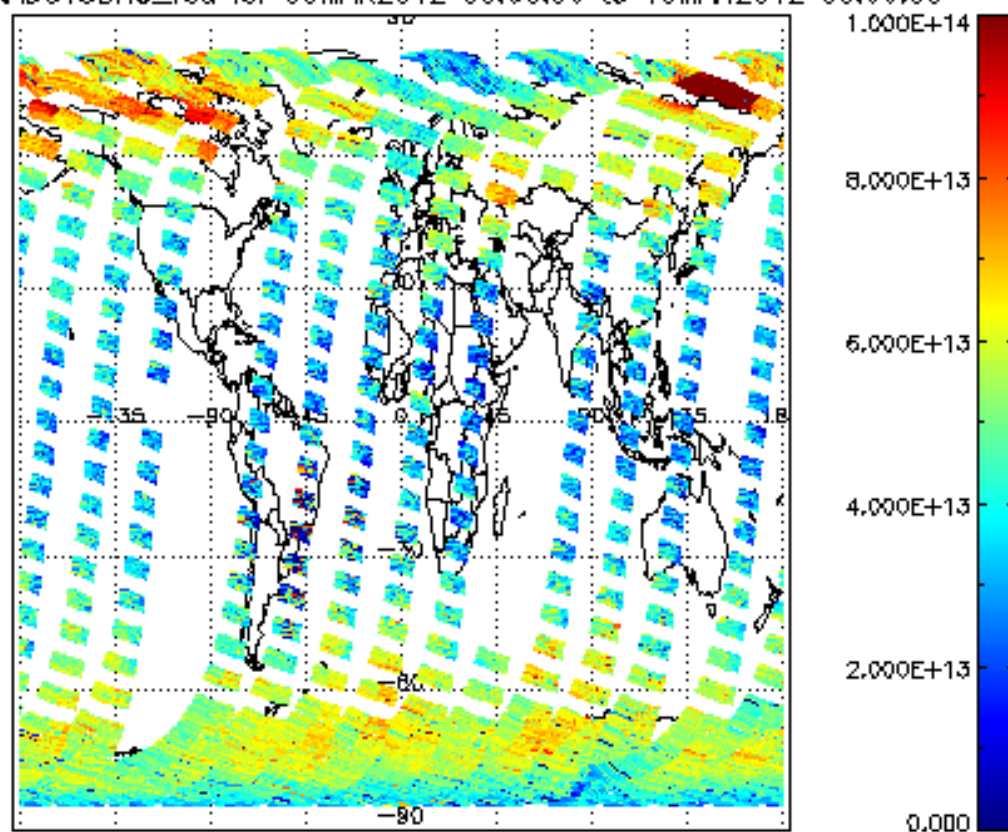


SCIOL2P_NADUV1NO2_amf_cl for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

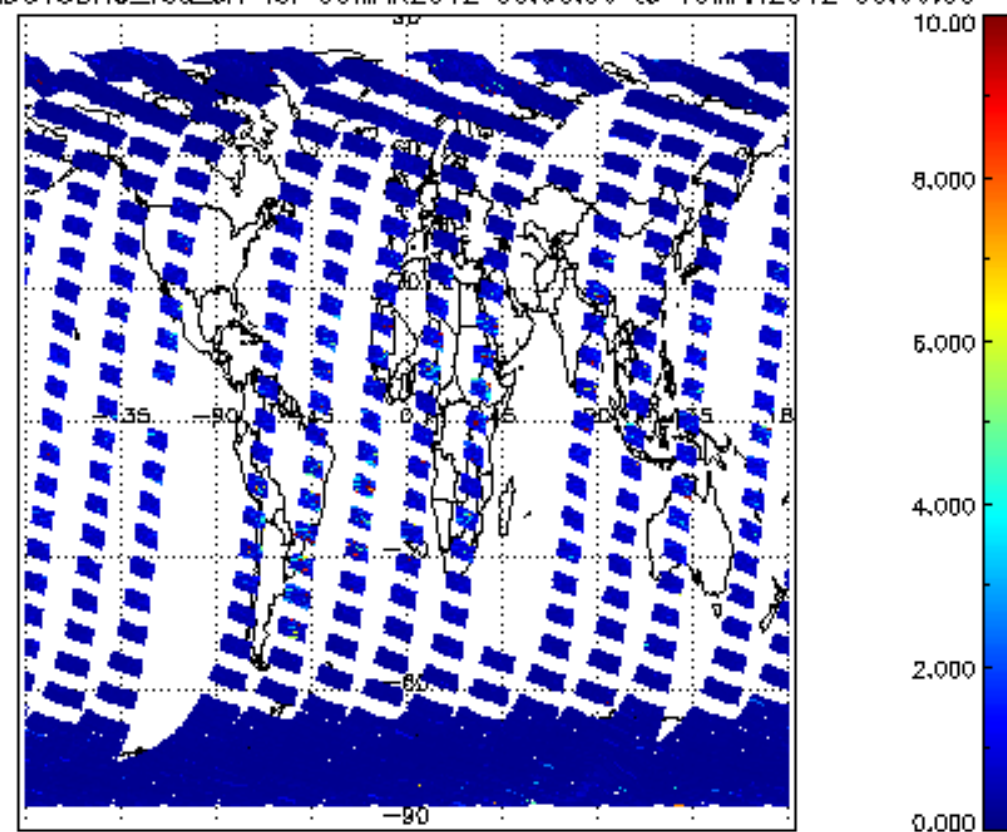




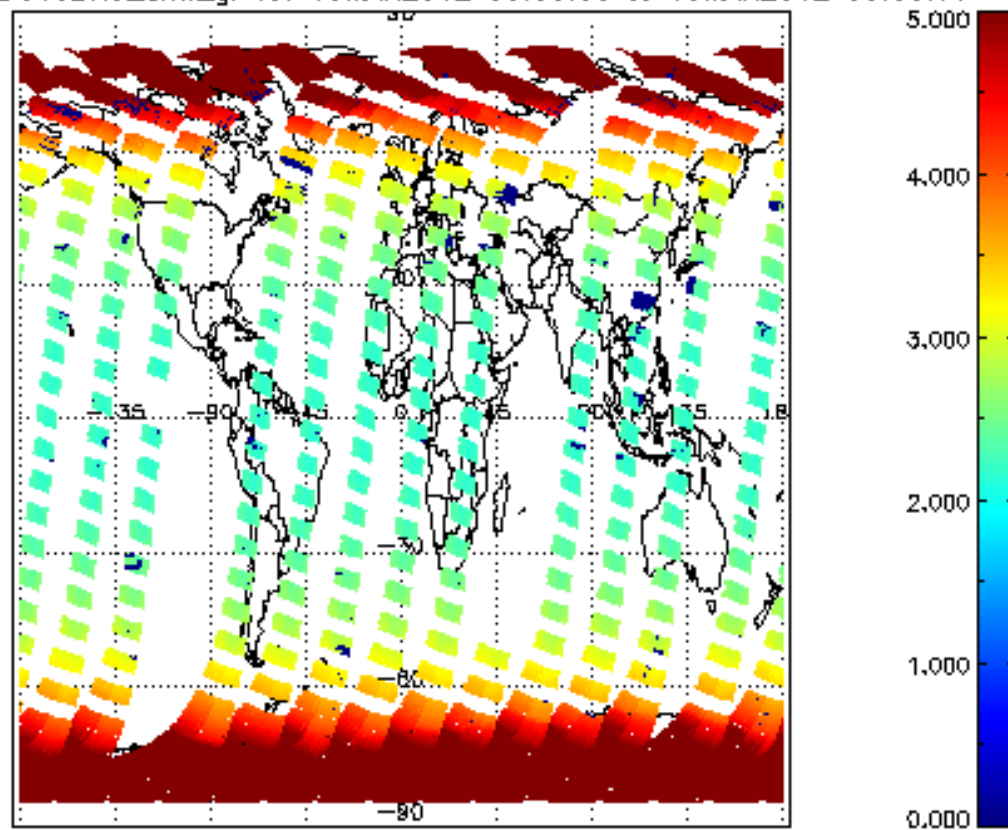
SCIOL2P_NADUV3BRO_vcd for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



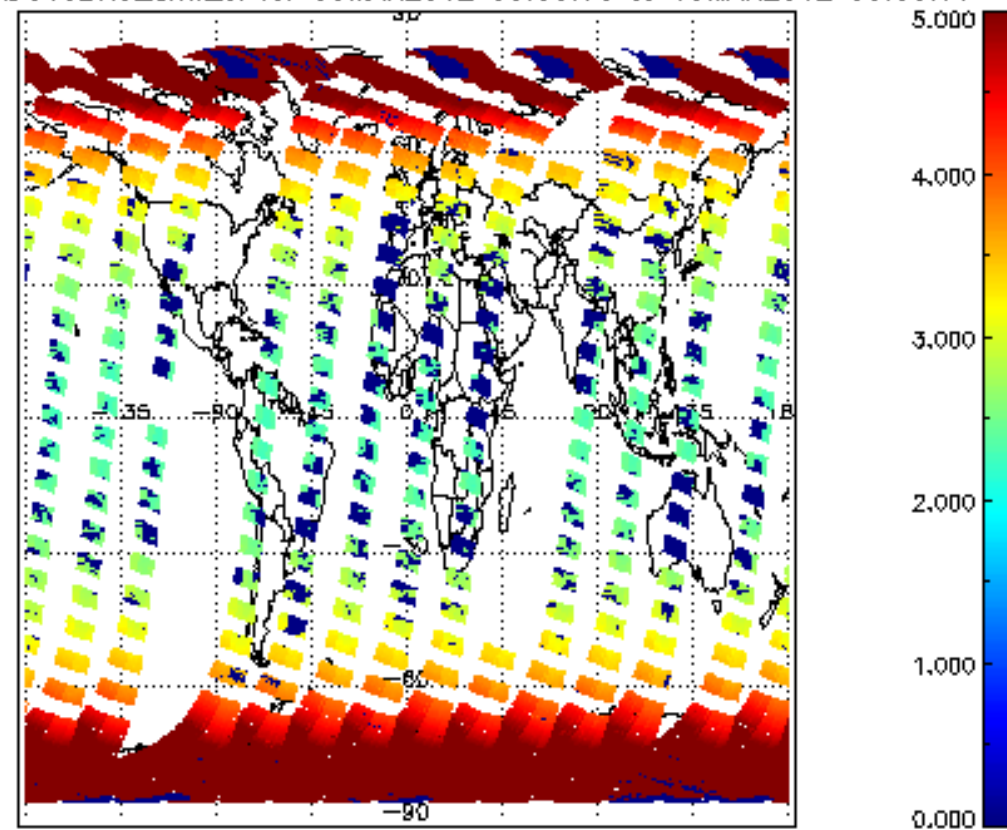
SCIOL2P_NADUV3BRO_vcd_err for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

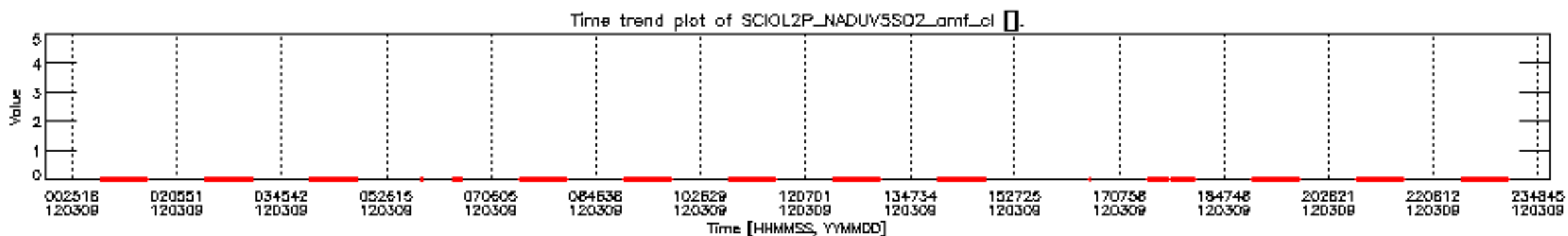
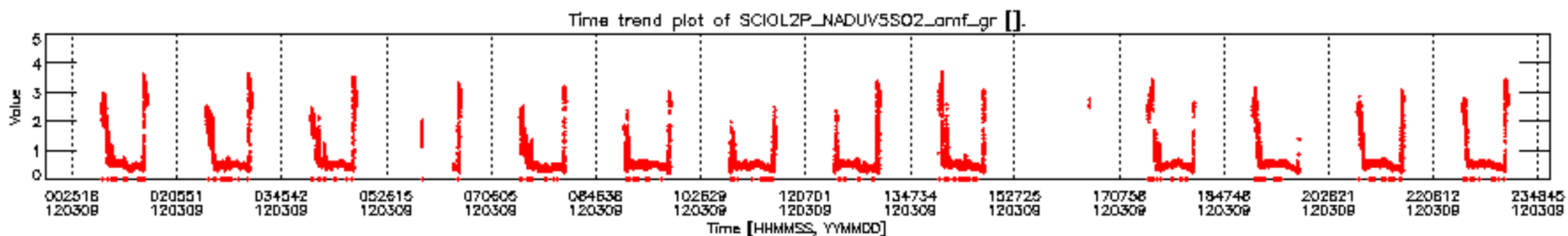
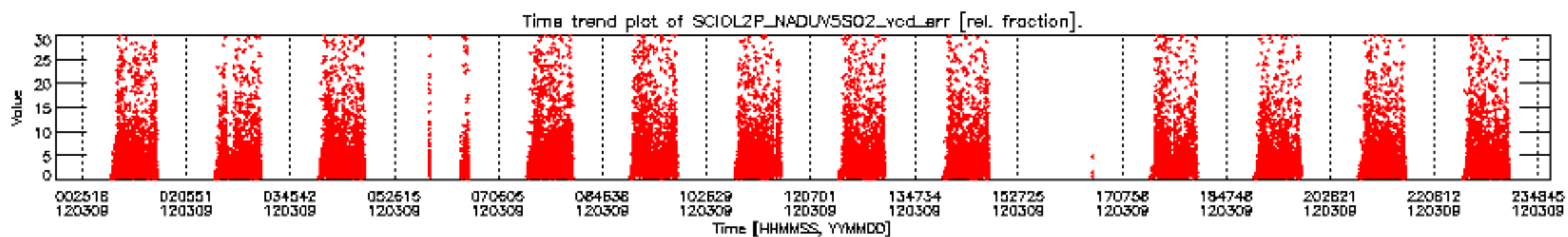
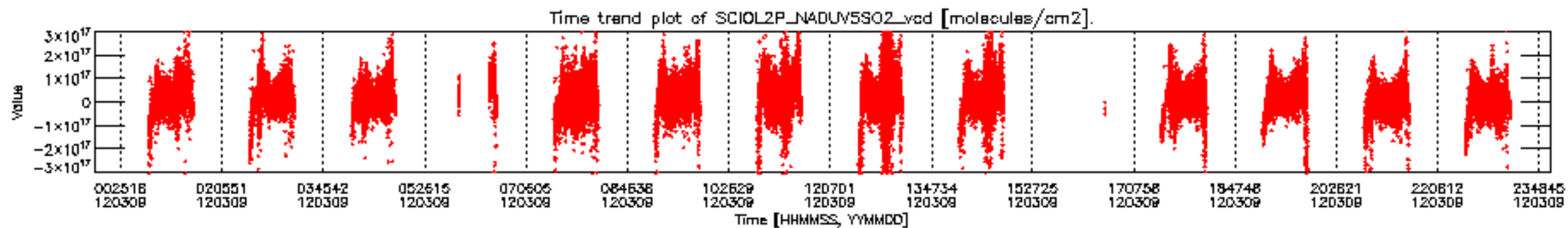


SCIOL2P_NADUV3BRO_amf_gr for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

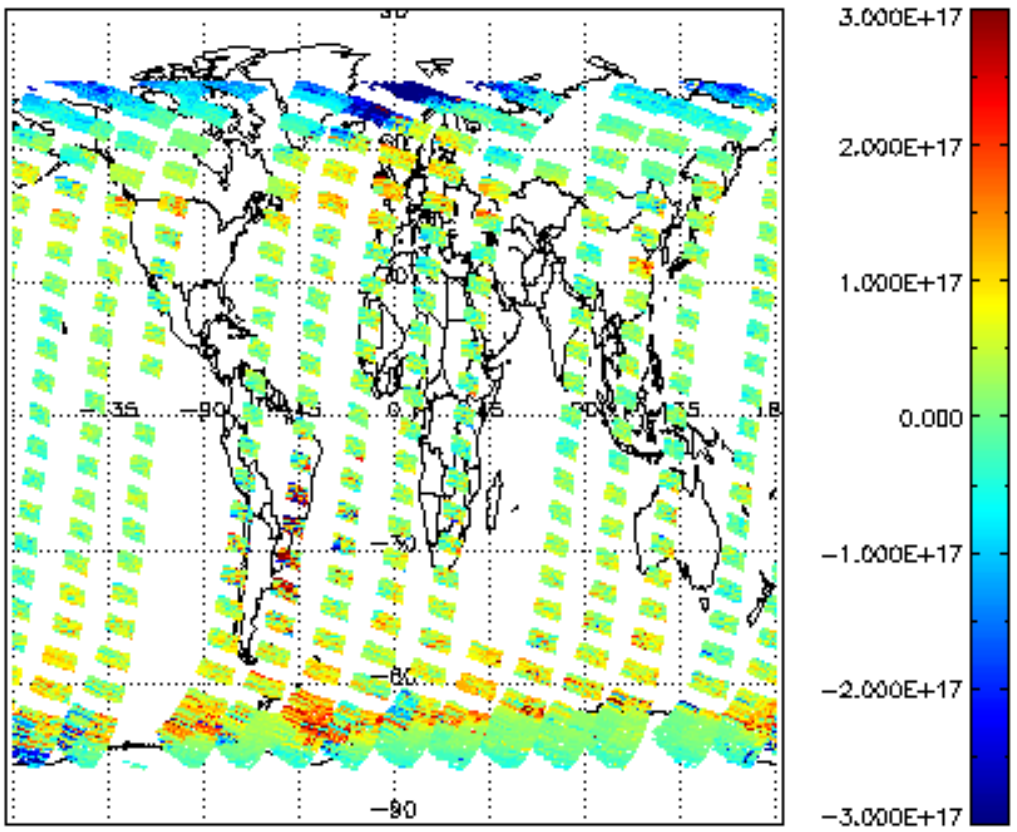


SCIOL2P_NADUV3BRO_amf_cl for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

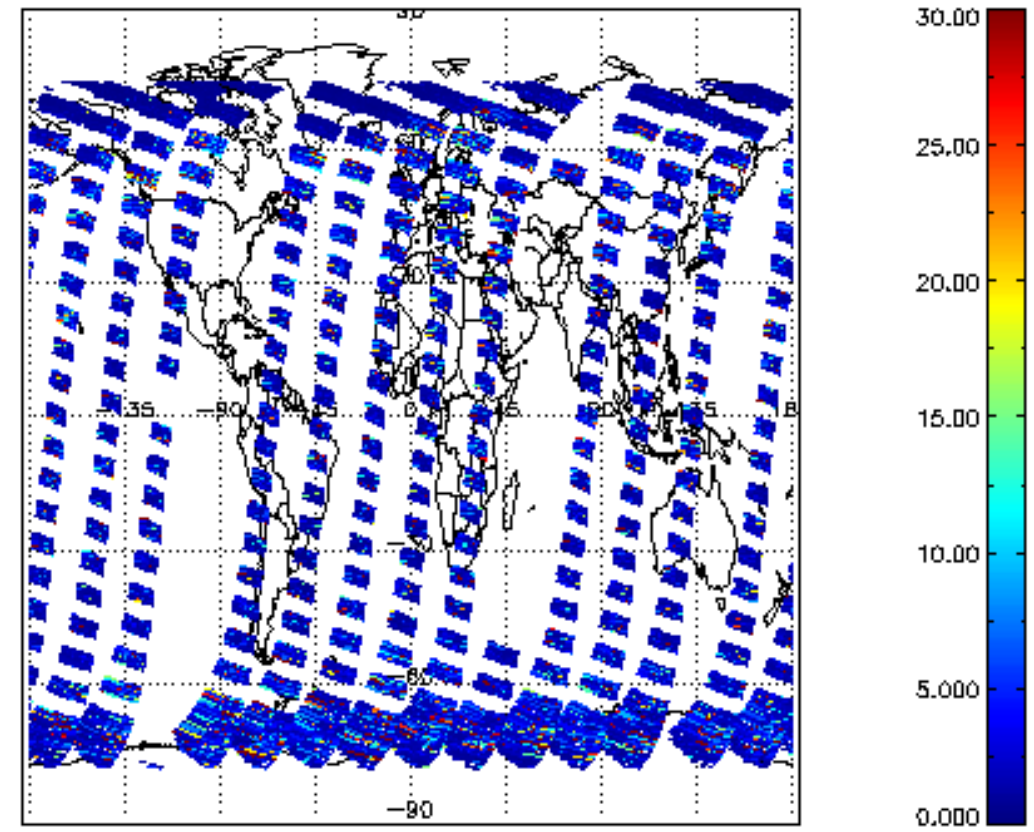




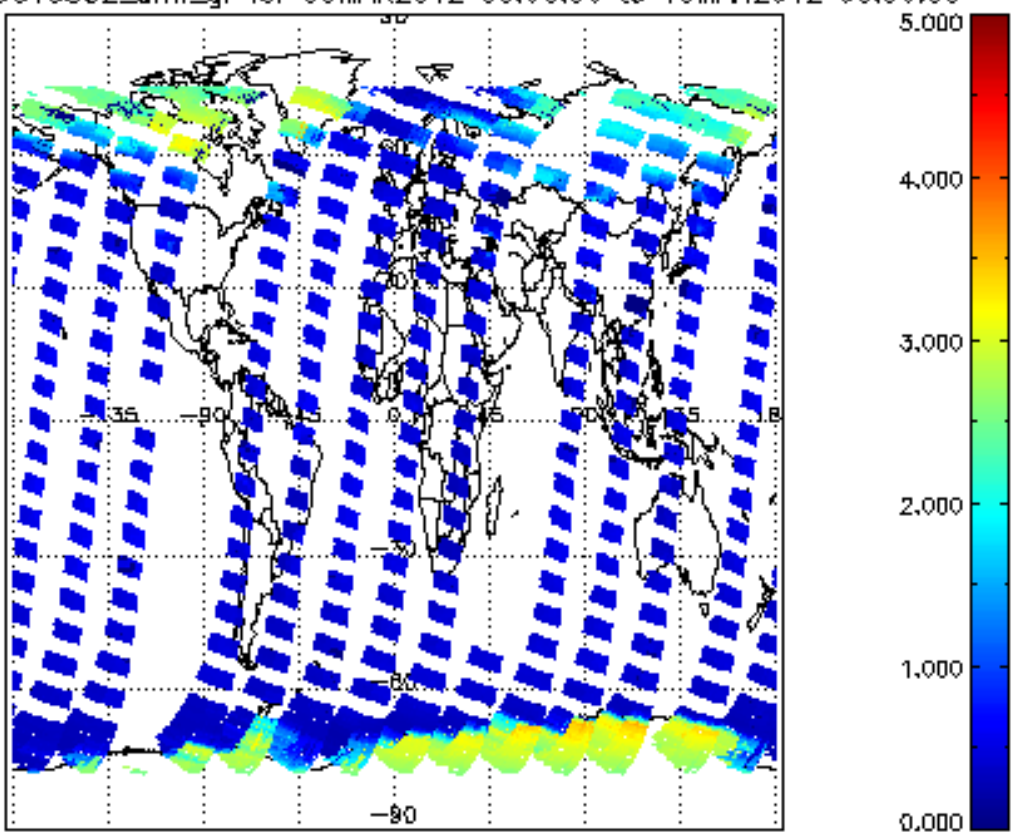
SCIOL2P_NADUV5S02_vcd for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



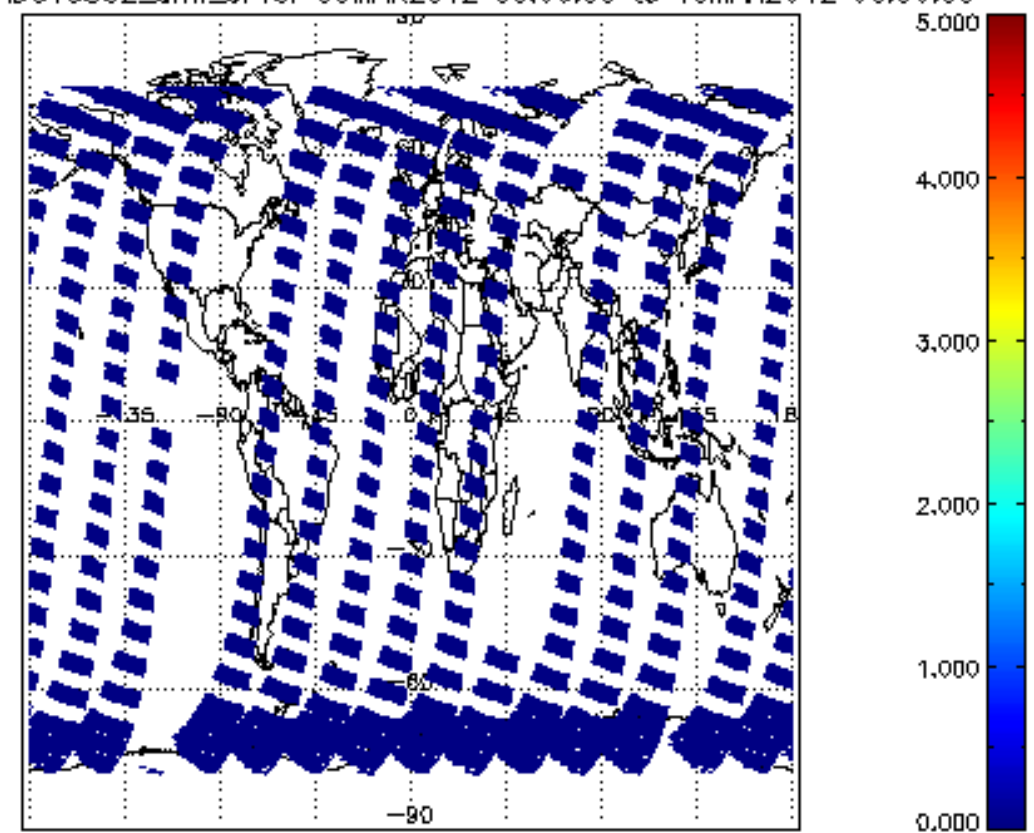
SCIOL2P_NADUV5S02_vcd_err for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

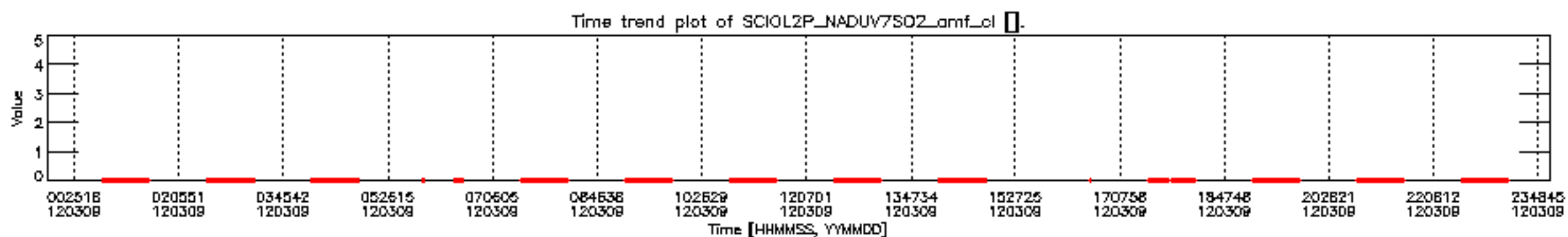
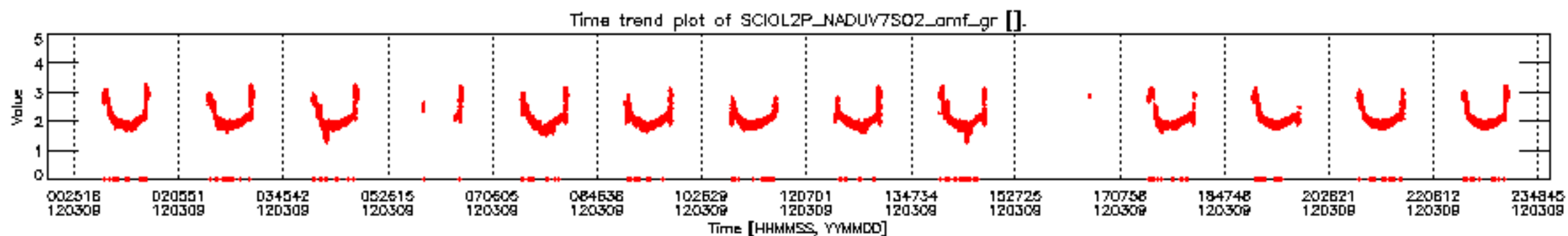
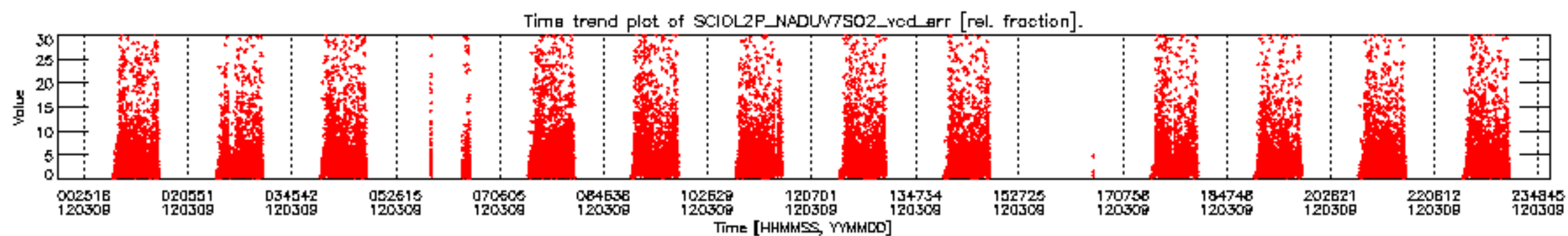
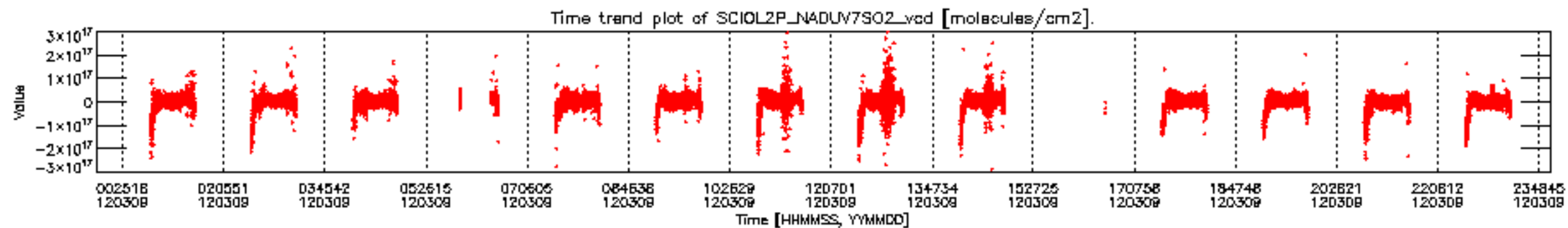


SCIOL2P_NADUV5S02_amf_gr for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

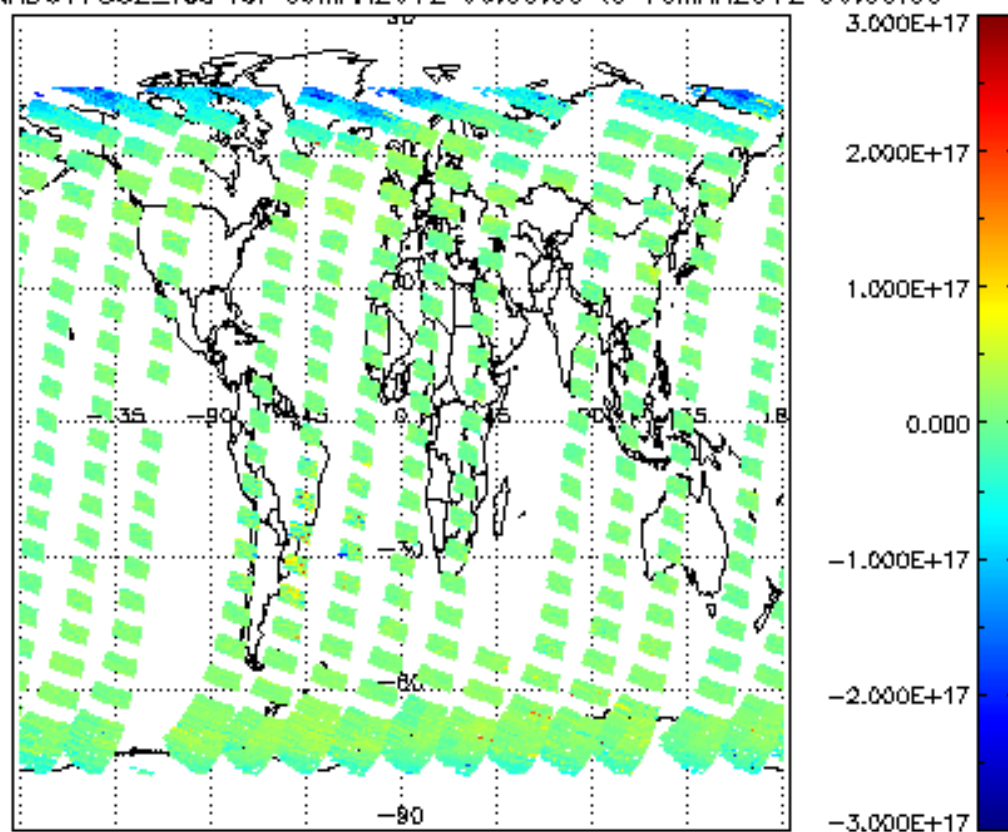


SCIOL2P_NADUV5S02_amf_cl for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

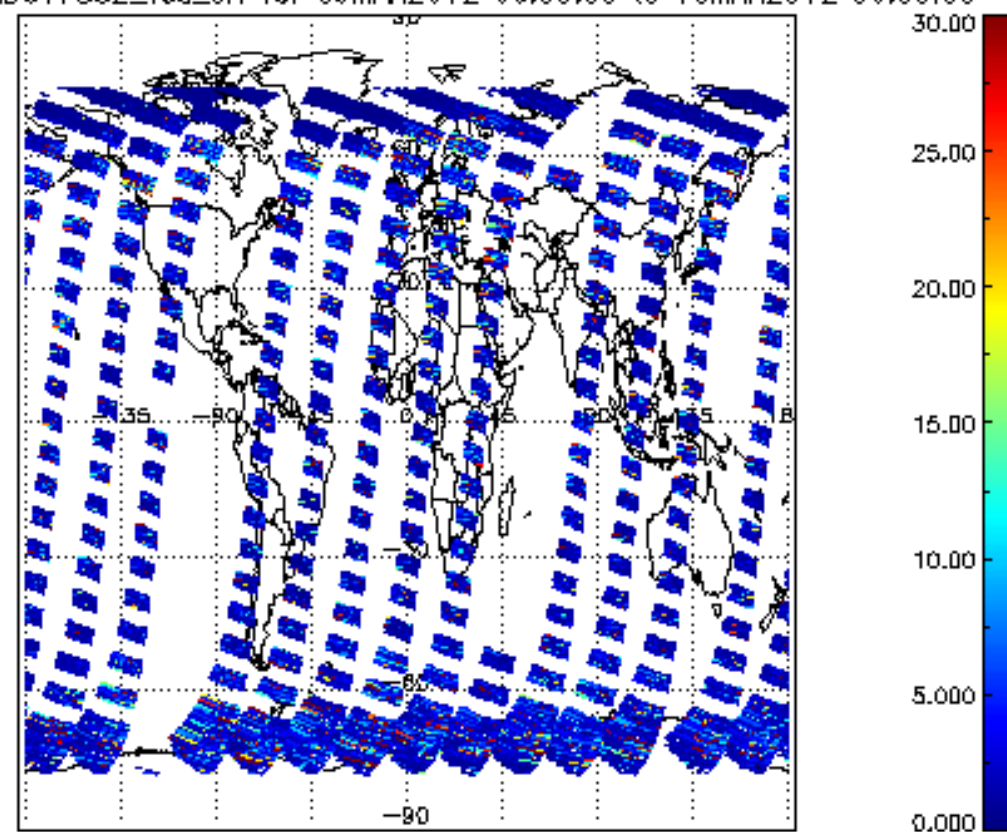




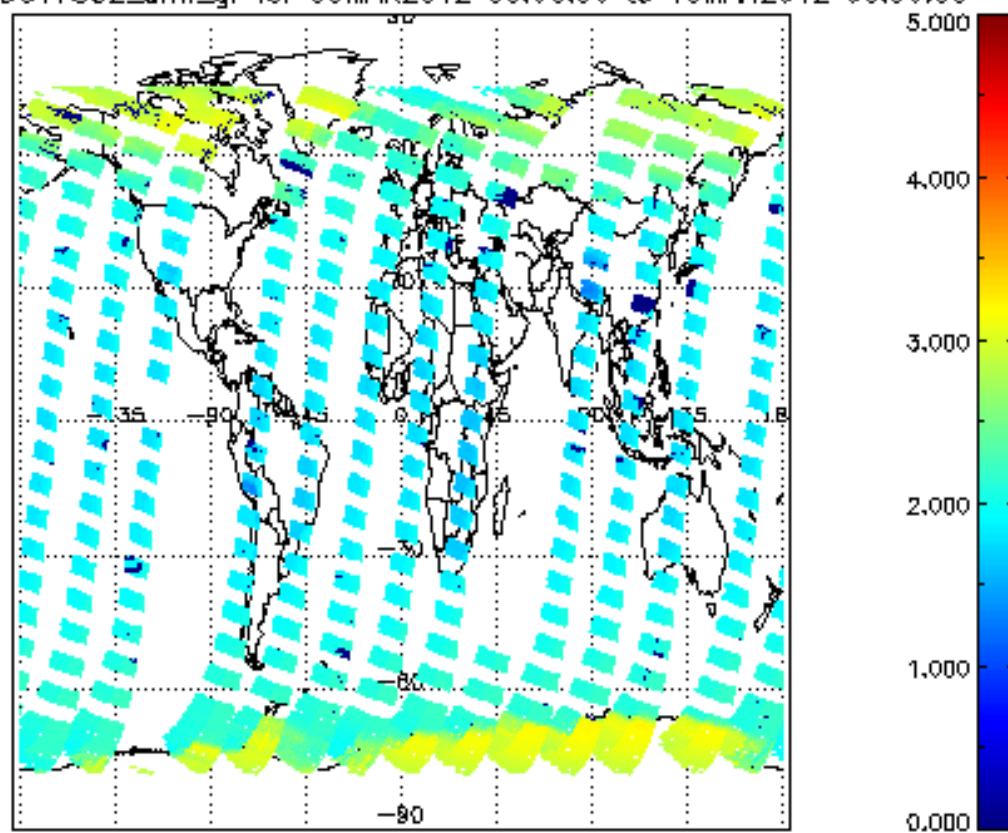
SCIOL2P_NADUV7S02_vcd for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



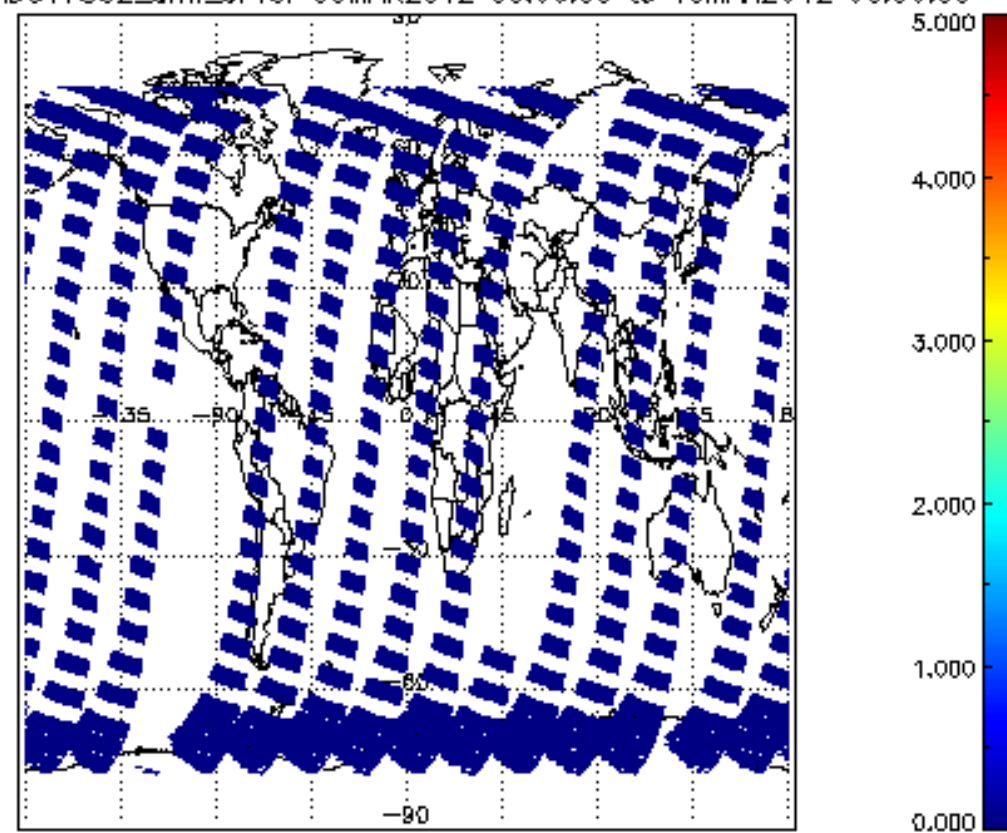
SCIOL2P_NADUV7S02_vcd_err for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

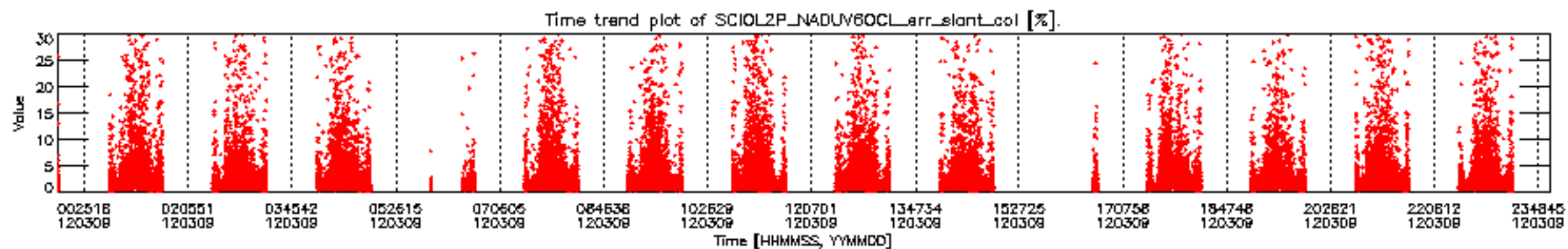
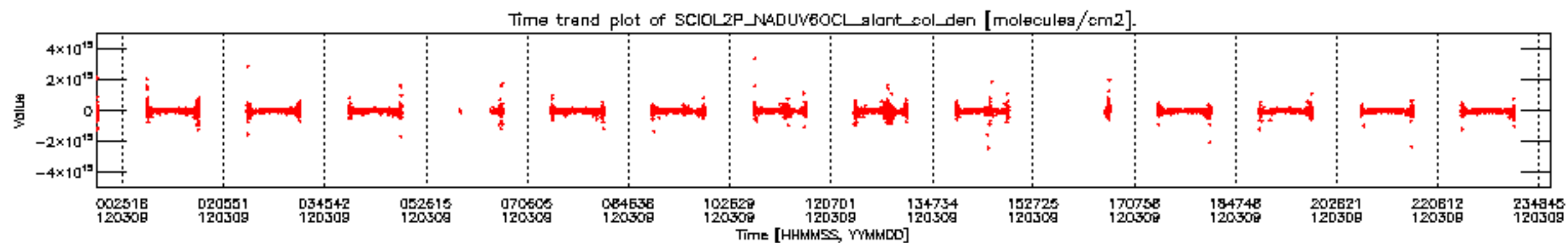


SCIOL2P_NADUV7S02_amf_gr for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

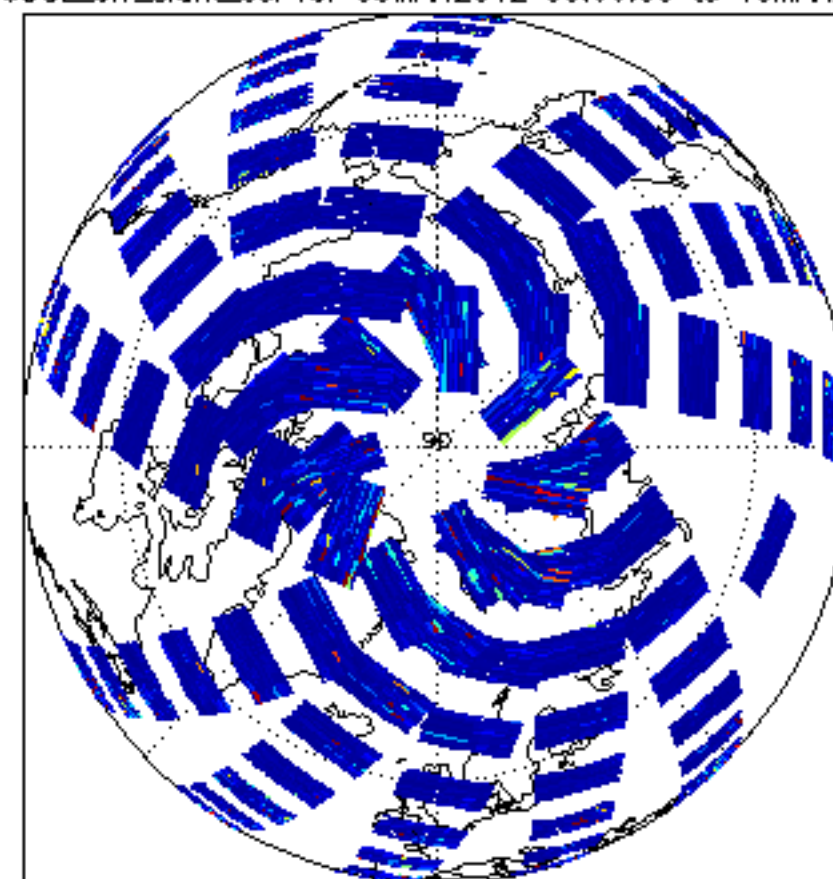
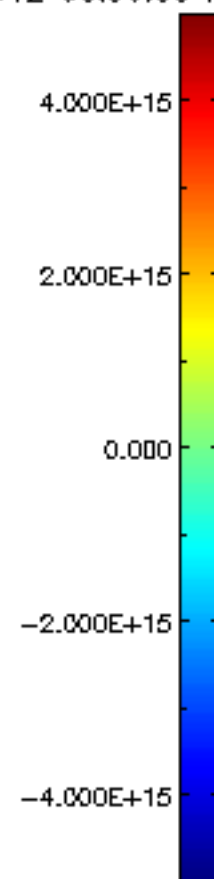
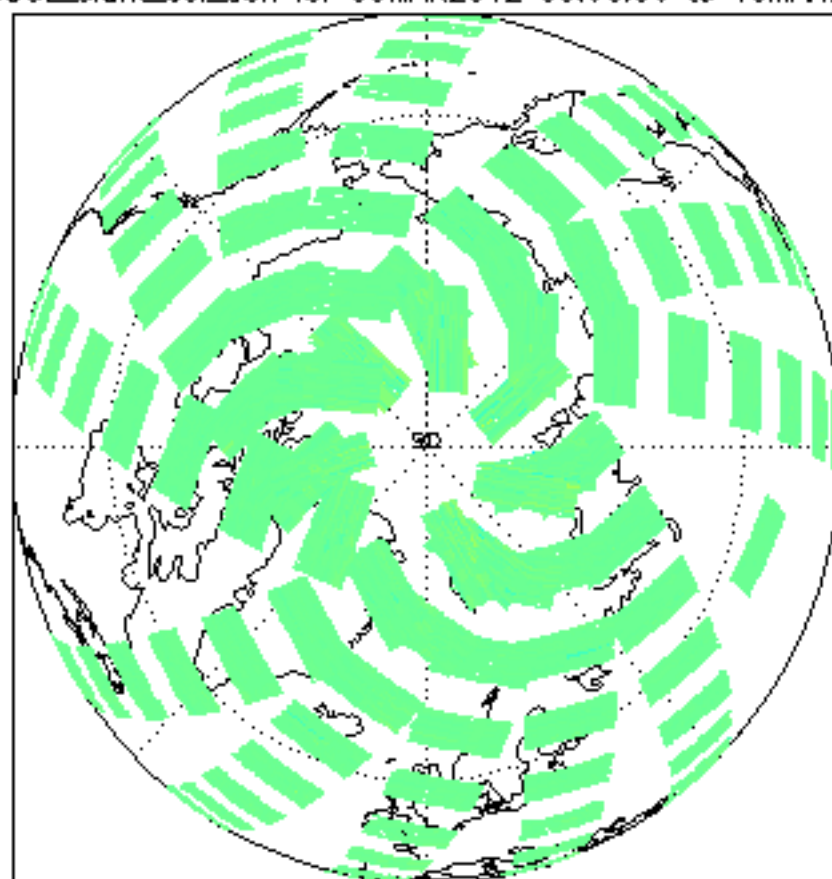


SCIOL2P_NADUV7S02_amf_cl for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

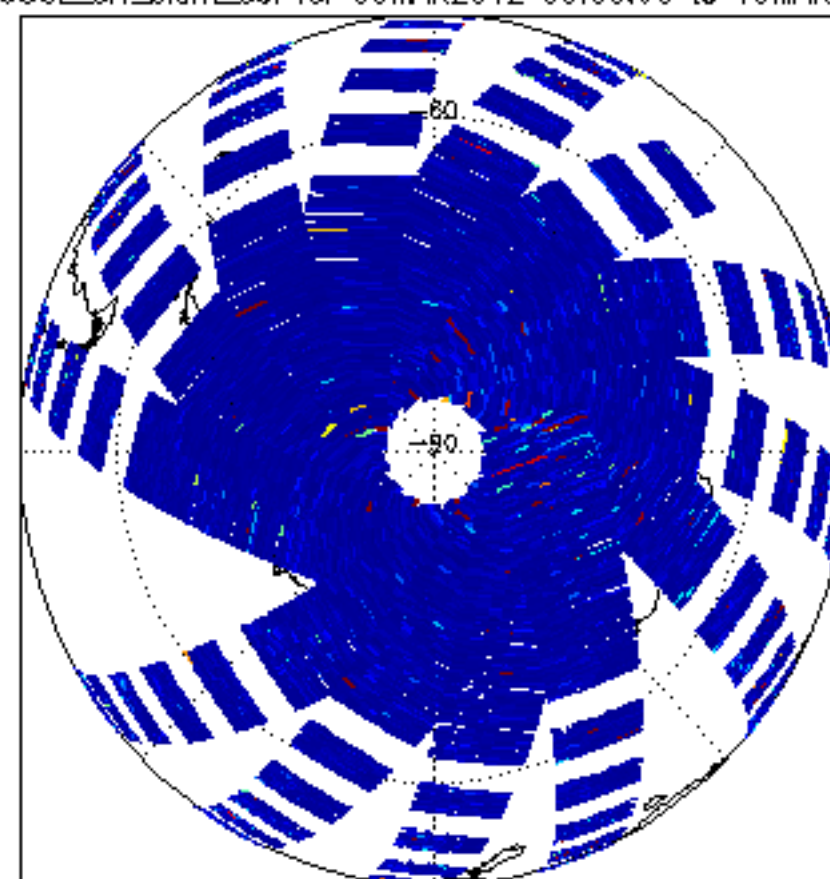
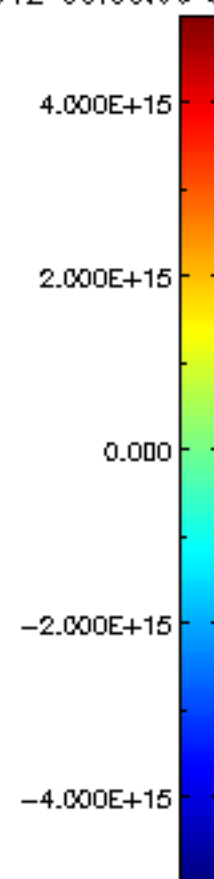
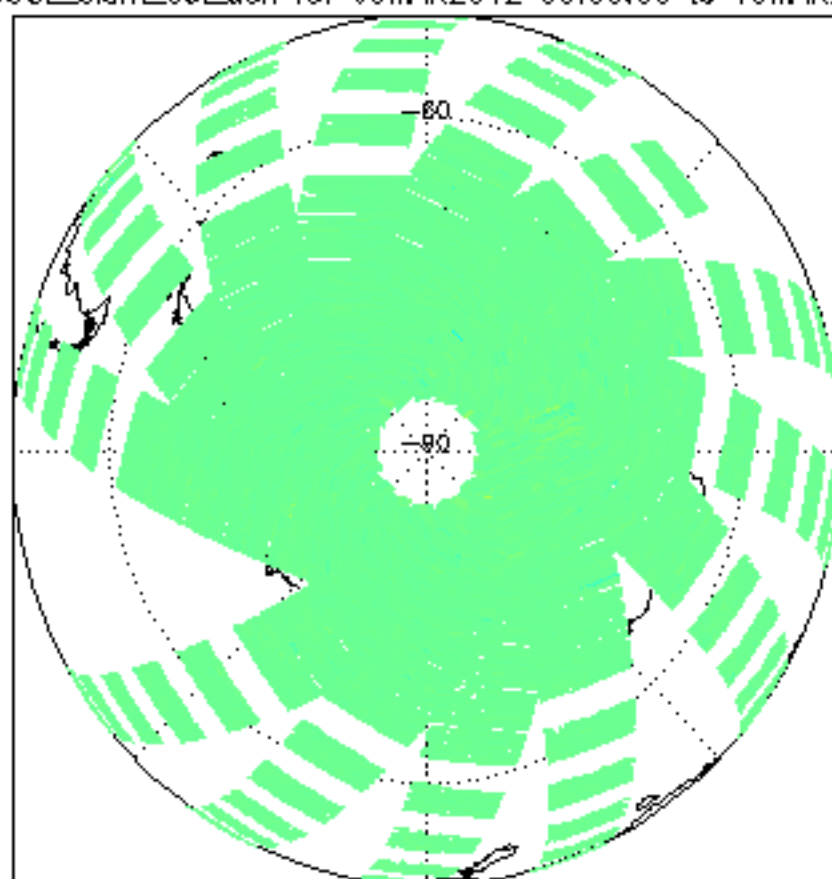




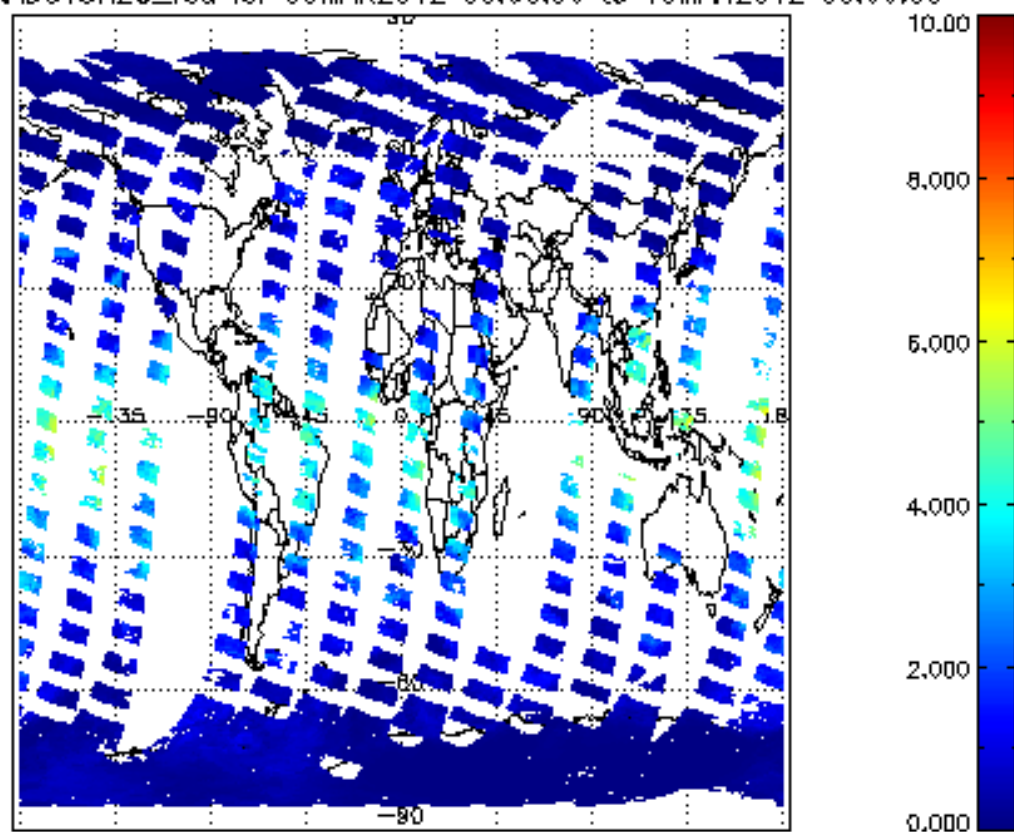
CIOL2P_NADUV6OCL_slant_col_den for 09MAR2012 00:00:00 to 10MAR2012 00:00:00 np; CIOL2P_NADUV6OCL_err_slant_col for 09MAR2012 00:00:00 to 10MAR2012 00:00:00 np

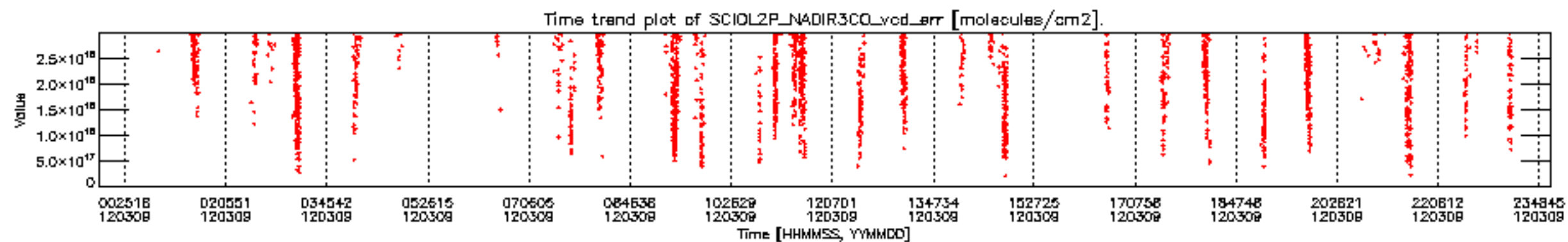
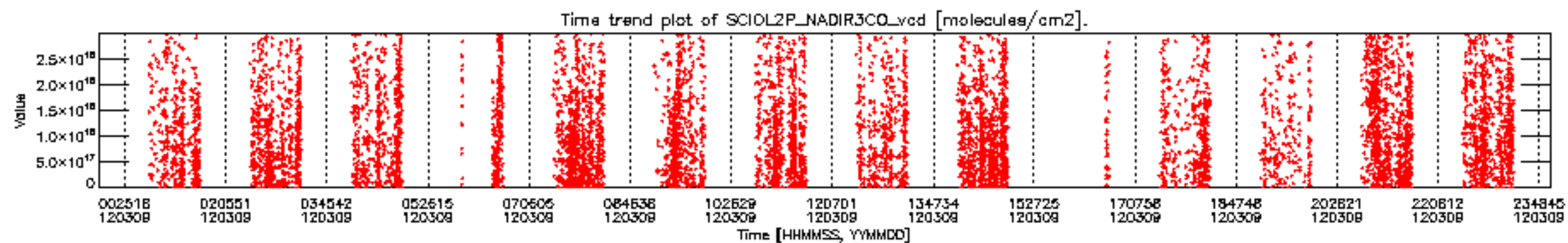


CIOL2P_NADUV6OCL_slant_coLden for 09MAR2012 00:00:00 to 10MAR2012 00:00:00 sp; CIOL2P_NADUV6OCL_err_slant_col for 09MAR2012 00:00:00 to 10MAR2012 00:00:00 sp

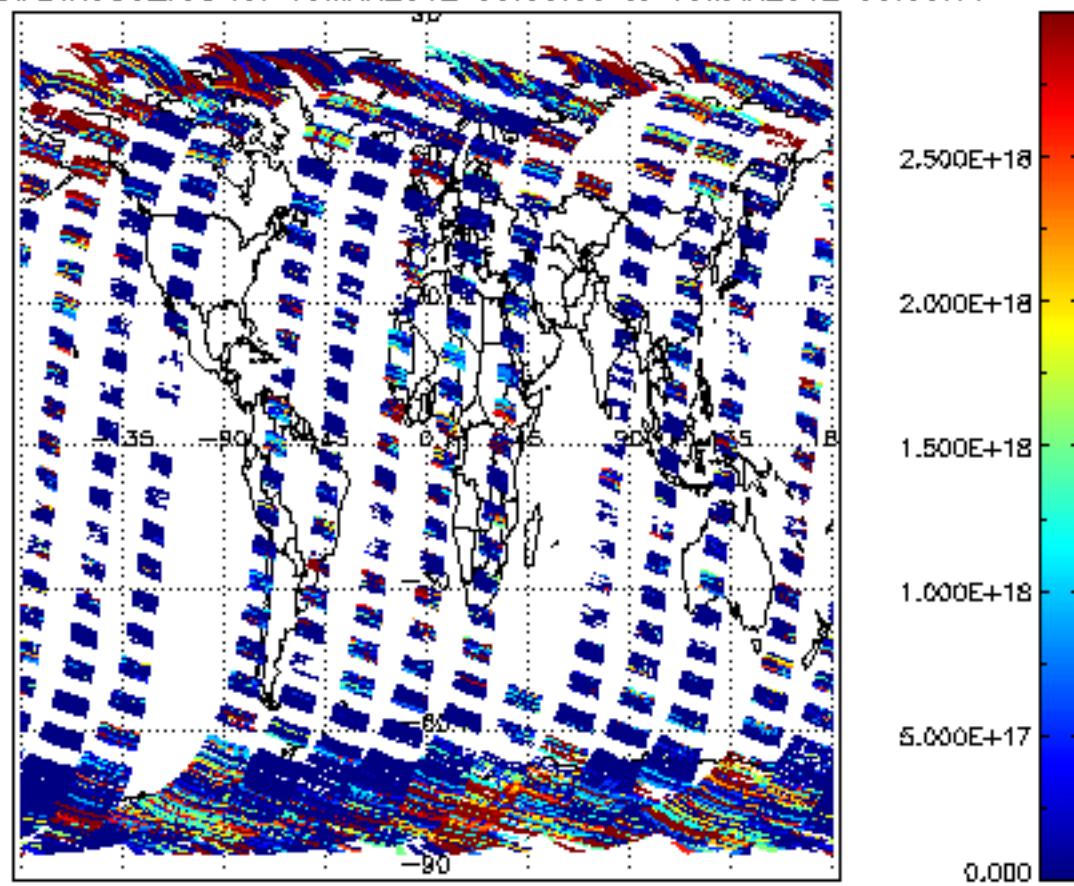


SCIOL2P_NADUV8H2O_vcd for 09MAR2012 00:00:00 to 10MAR2012 00:00:00

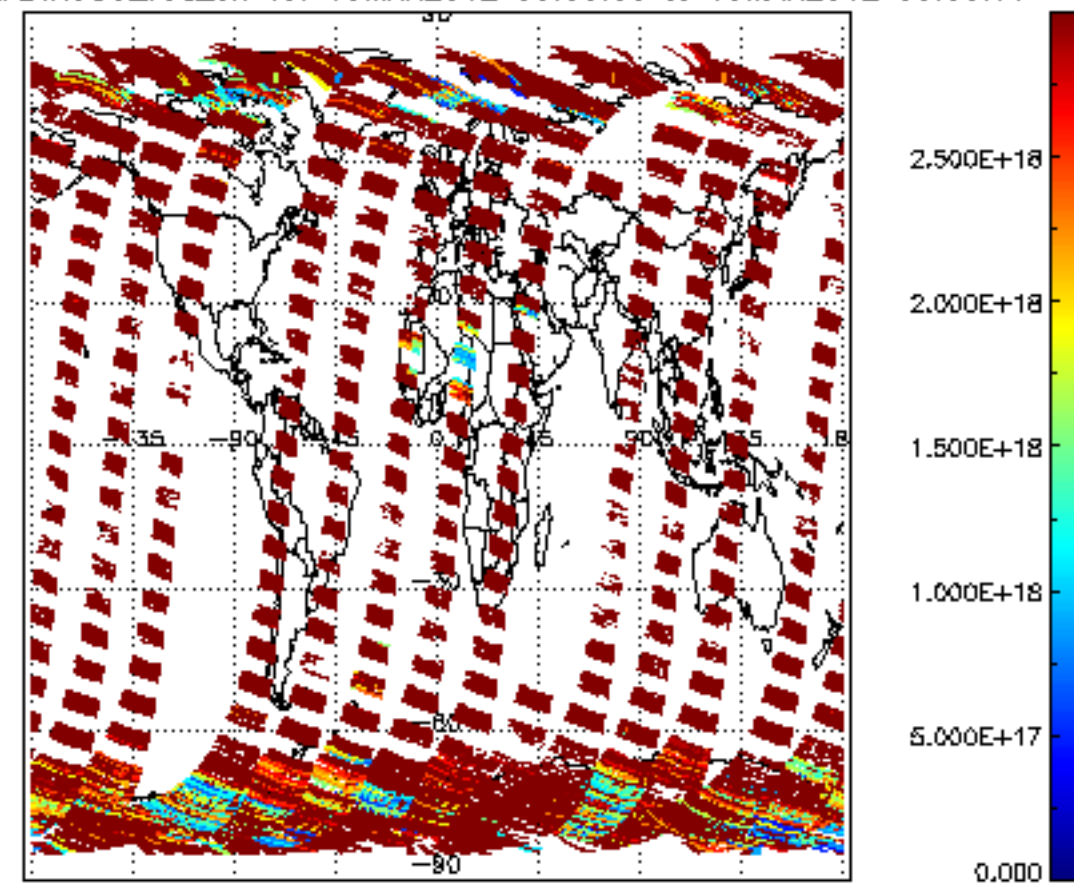




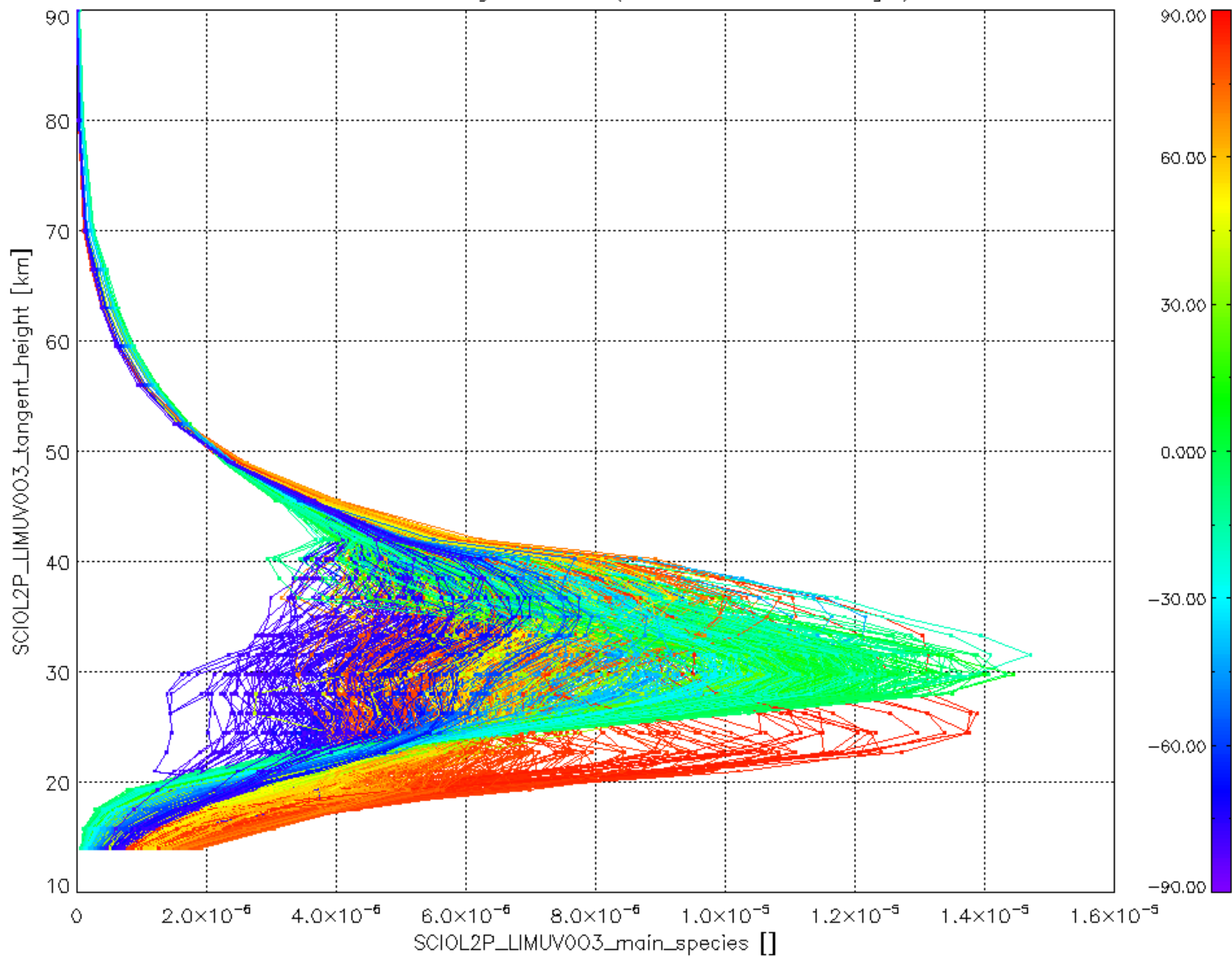
SCIOL2P_NADIR3CO_vcd for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



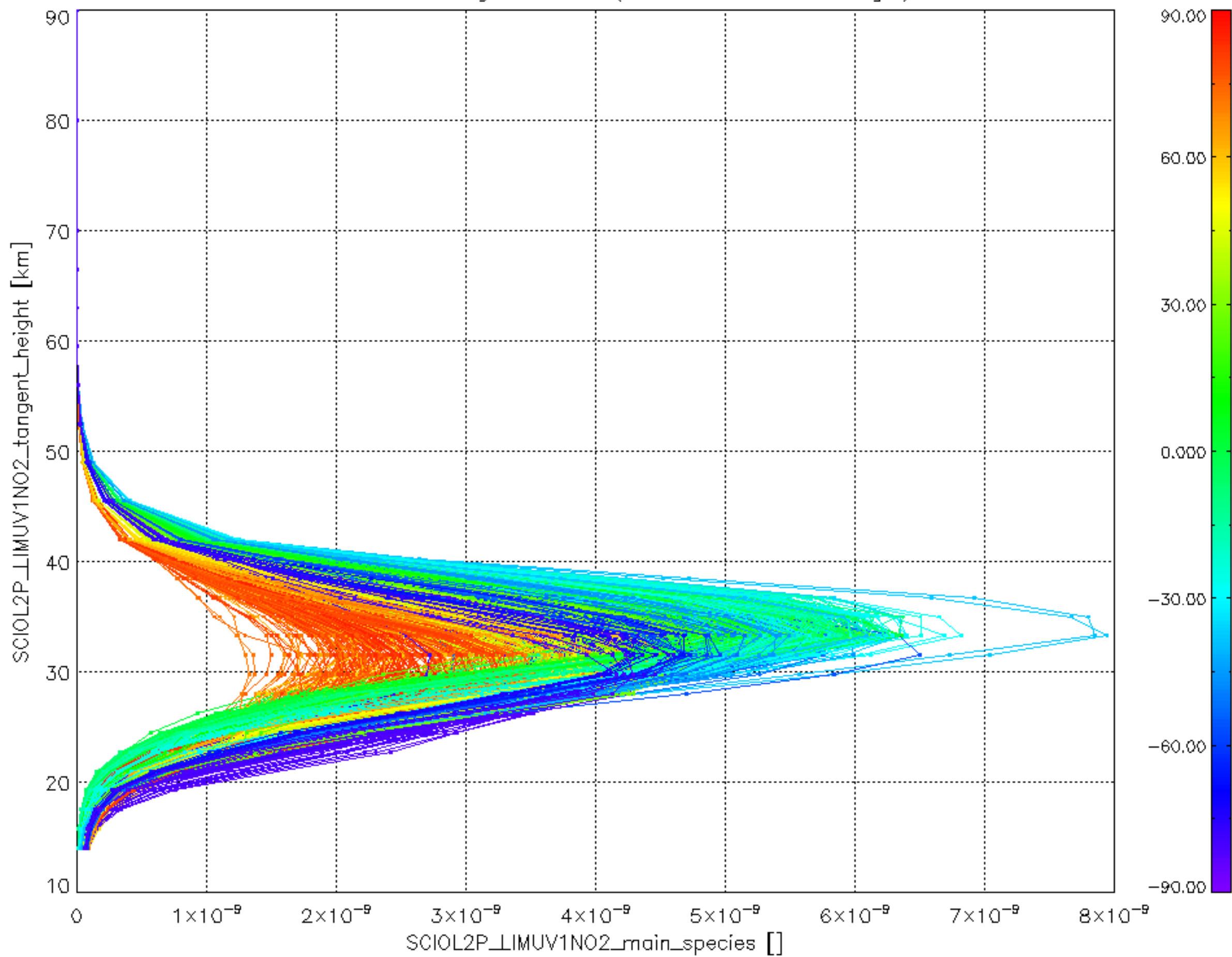
SCIOL2P_NADIR3CO_vcd_err for 09MAR2012 00:00:00 to 10MAR2012 00:00:00



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).

