

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 15:10:34
Data source version	SCIA-OL/5.02-W
Processing scope for products	04MAR2012 00:00:00 to 05MAR2012 00:00:00
Start time of first product within scope	03MAR2012 22:46:32
Stop time of last product within scope	05MAR2012 00:48:45
Total number of level 2 products	15
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__2PWDPA20120303_224632_000035353112_00188_52357_3837.N1	03MAR2012 22:46:32	03MAR2012 23:45:28	0	GOOD
1	SCI_OL__2PWDPA20120304_002646_000035313112_00189_52358_3838.N1	04MAR2012 00:26:46	04MAR2012 01:25:37	0	GOOD
2	SCI_OL__2PWDPA20120304_020659_000035273112_00190_52359_3839.N1	04MAR2012 02:06:59	04MAR2012 03:05:46	0	GOOD
3	SCI_OL__2PWDPA20120304_034712_000035223112_00191_52360_3840.N1	04MAR2012 03:47:12	04MAR2012 04:45:55	0	GOOD
4	SCI_OL__2PWDPA20120304_052726_000035173112_00192_52361_3841.N1	04MAR2012 05:27:26	04MAR2012 06:26:04	0	GOOD

5	SCI_OL__2PWDP20120304_070740_000035133112_00193_52362_3842.N1	04MAR2012 07:07:40	04MAR2012 08:06:13	0	GOOD
6	SCI_OL__2PWDP20120304_084753_000035083112_00194_52363_3843.N1	04MAR2012 08:47:53	04MAR2012 09:46:21	0	GOOD
7	SCI_OL__2PWDP20120304_102806_000035033112_00195_52364_3844.N1	04MAR2012 10:28:06	04MAR2012 11:26:30	0	GOOD
8	SCI_OL__2PWDP20120304_120820_000034983112_00196_52365_3845.N1	04MAR2012 12:08:20	04MAR2012 13:06:39	0	GOOD
9	SCI_OL__2PWDP20120304_134833_000035623112_00197_52366_3846.N1	04MAR2012 13:48:33	04MAR2012 14:47:56	0	GOOD
10	SCI_OL__2PWDP20120304_152847_000035573112_00198_52367_3847.N1	04MAR2012 15:28:47	04MAR2012 16:28:04	0	GOOD
11	SCI_OL__2PWDP20120304_170900_000035523112_00199_52368_3855.N1	04MAR2012 17:09:00	04MAR2012 18:08:13	0	GOOD
12	SCI_OL__2PWDP20120304_202946_000035233112_00201_52370_3850.N1	04MAR2012 20:29:46	04MAR2012 21:28:29	0	GOOD
13	SCI_OL__2PWDP20120304_220941_000035363112_00202_52371_3848.N1	04MAR2012 22:09:41	04MAR2012 23:08:37	0	GOOD
14	SCI_OL__2PWDP20120304_234954_000035313112_00203_52372_3849.N1	04MAR2012 23:49:54	05MAR2012 00:48:45	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: 126523

Total number of cloud data DSRs with good quality flag (=0): 126523 (100.0 %)

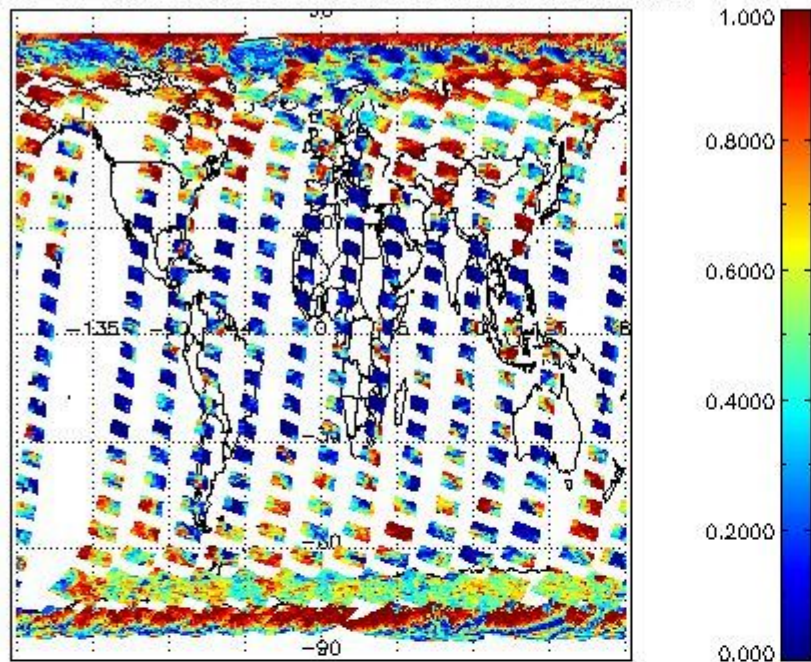
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	126523	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	126523	0.17175	0.12500	0.12500	0.25000	0.060483	s
CL_FRAC	126523	0.49245	0.49970	0.0000	1.0000	0.34304	
CL_FRAC_ERR	126523	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	126523	5.4960	4.0000	4.0000	8.0000	1.9355	
PMD_READ_CL[0]	126523	0.75559	0.0000	0.0000	8.0000	1.6849	-
PMD_READ_CL[1]	126523	1.2362	0.0000	0.0000	8.0000	2.5400	-
CL_TOP_HEIGHT	103539	3.1220	1.7290	0.0000	17.000	3.3492	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	103539	56.613	51.015	0.0000	101.00	40.096	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	126523	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	126523	11001011	11000100	11000000	11100000	3446.2	
AERO_ABSO_IND	126523	0.10429	0.0000	0.0000	7.0215	0.31279	
AERO_IND_DIAG	126523	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	126523	01011101	00000000	00000000	11000000	24566.	

Time and geolocation plots:

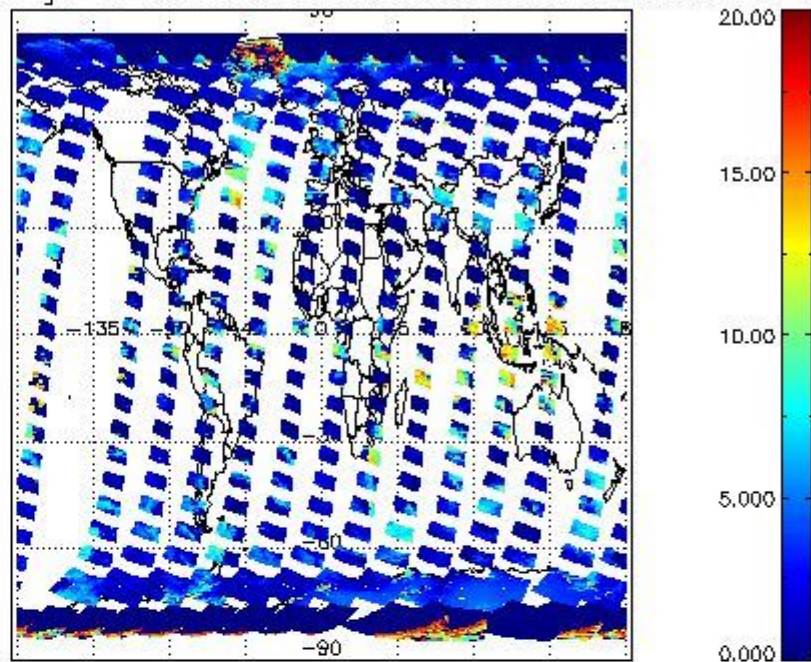
Plots are available for the following parameters:

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

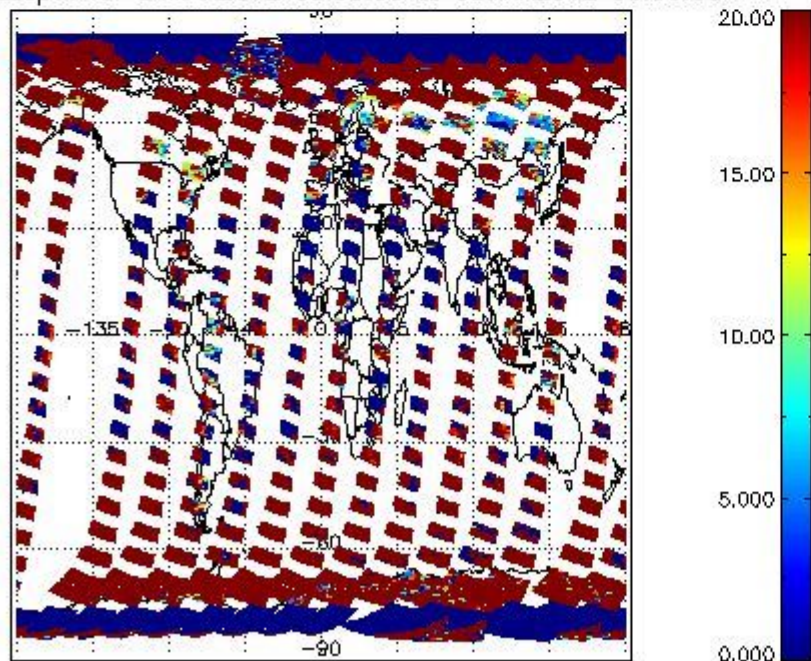
cL_frac for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



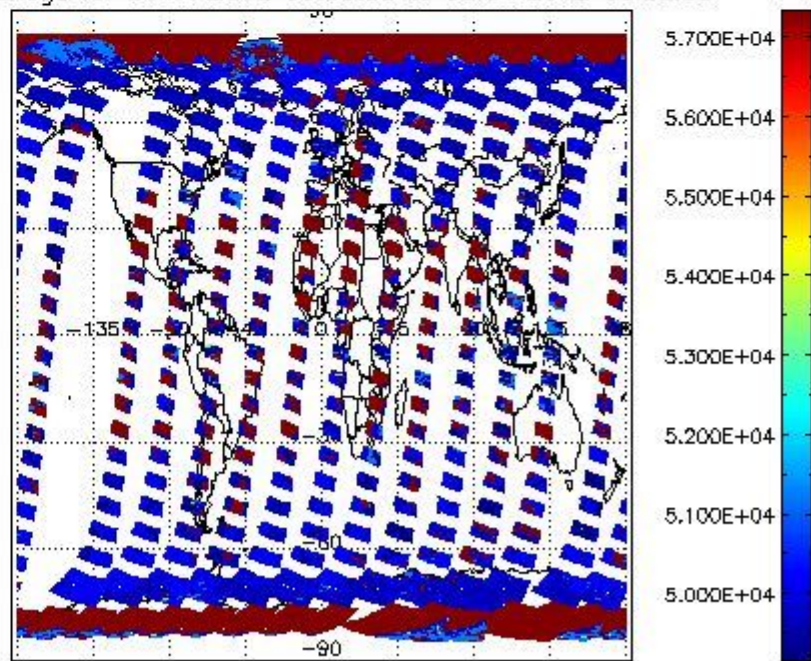
cL_top_height for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



cL_opt_depth for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



cloud_flags for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



2.2.2 Nadir

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

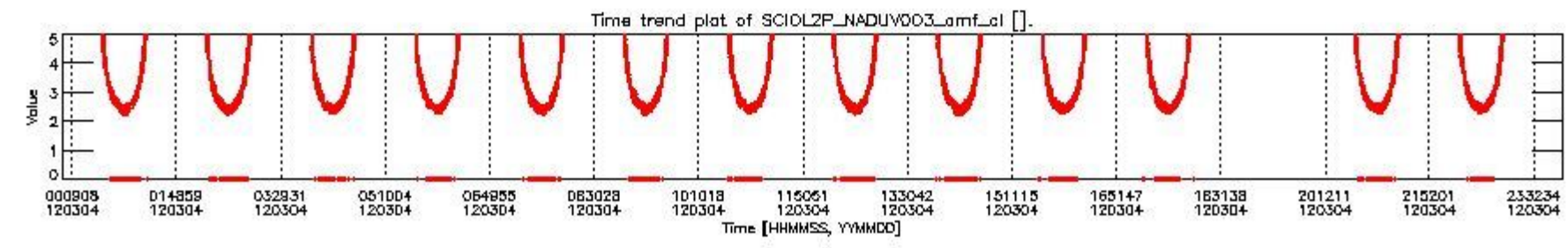
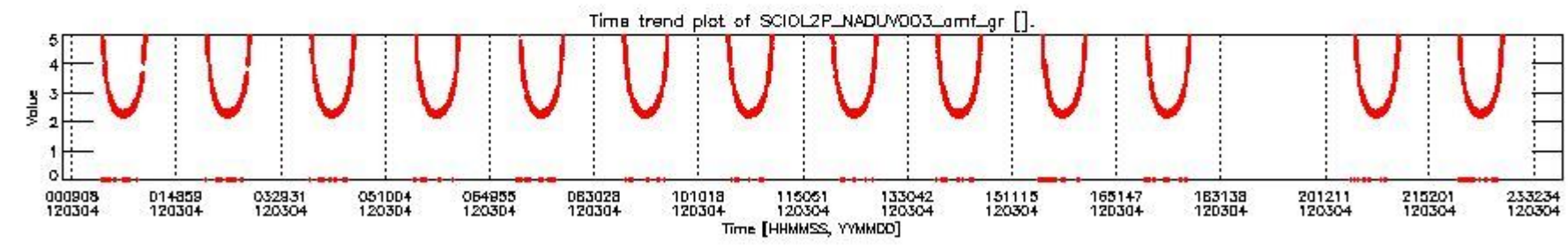
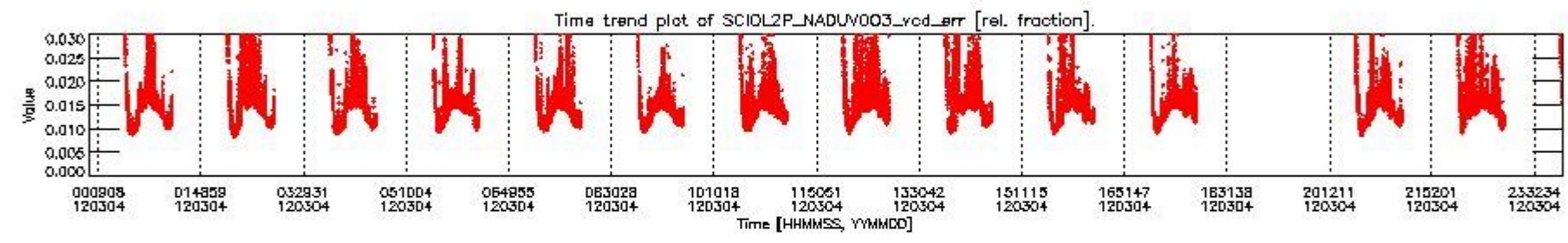
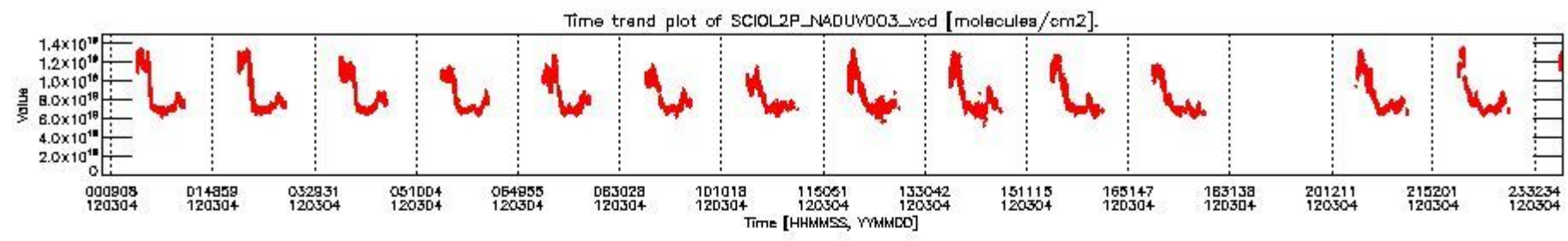
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

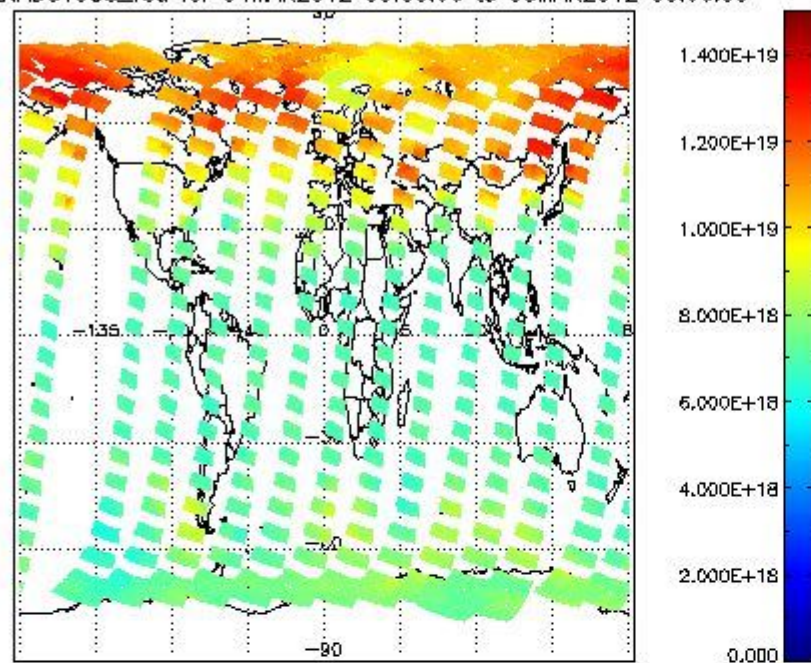
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

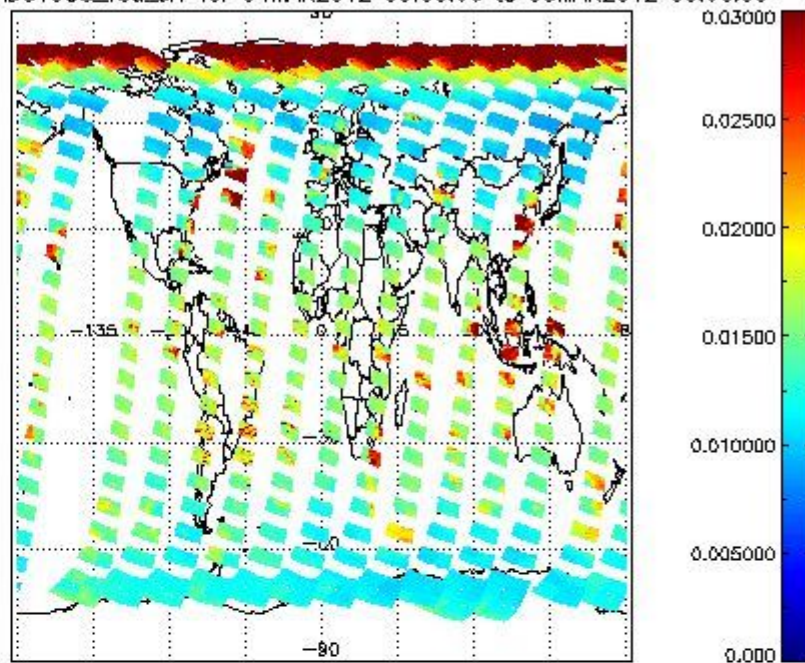
2.2.2.1 O3 (UV0)



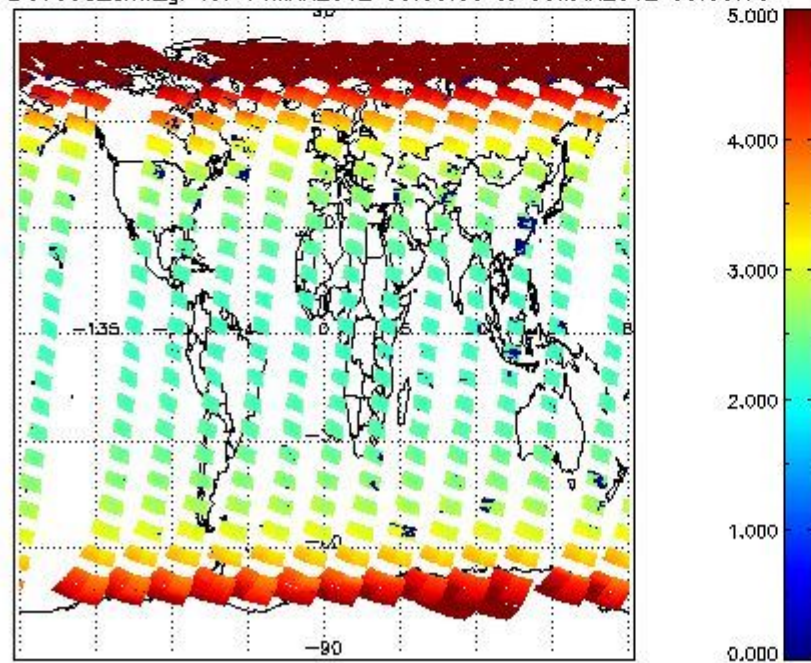
SCIOL2P_NADUV003_vcd for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



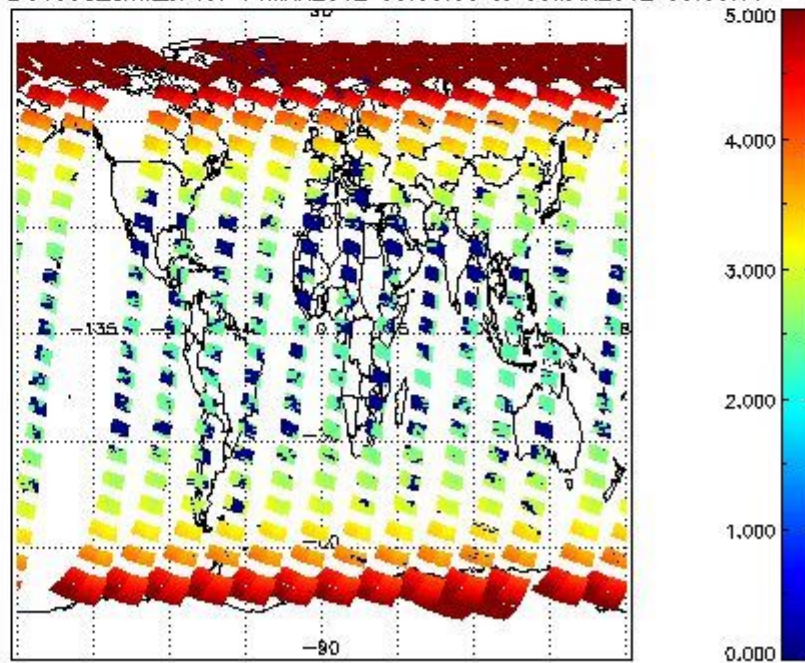
SCIOL2P_NADUV003_vcd_err for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



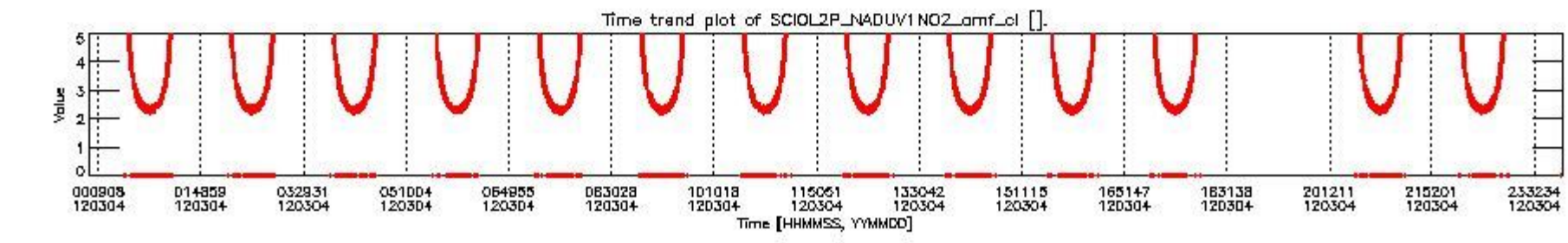
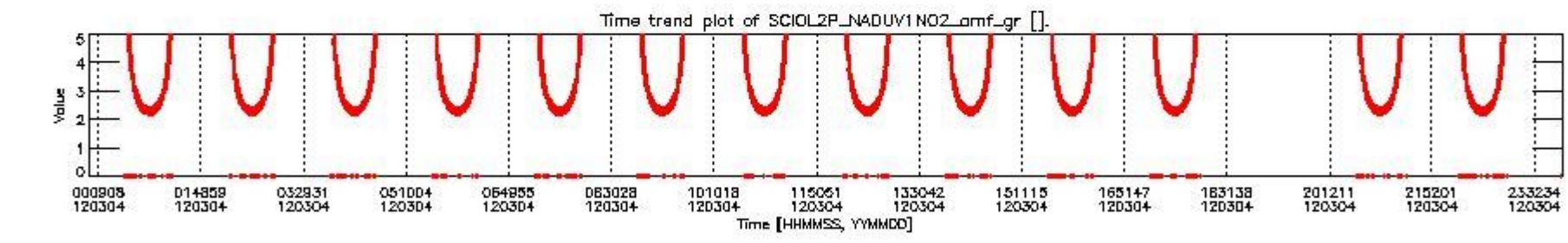
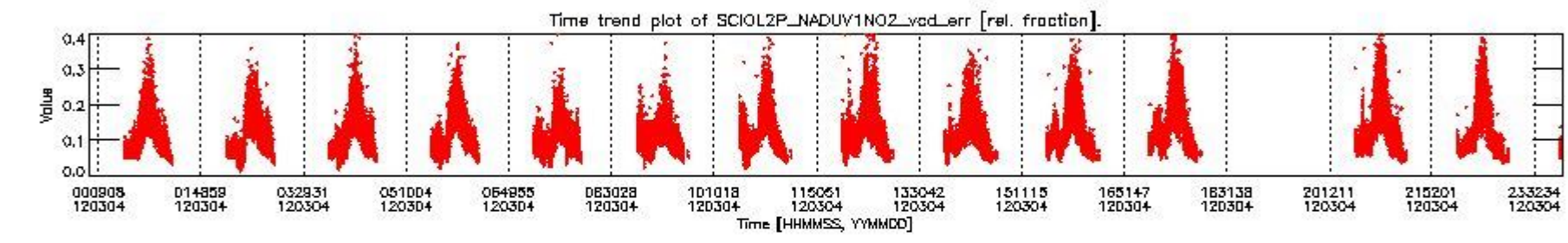
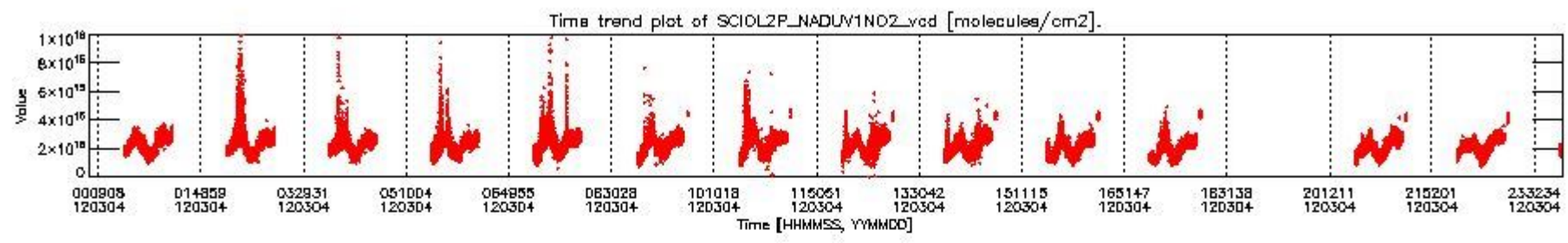
SCIOL2P_NADUV003_amf_gr for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



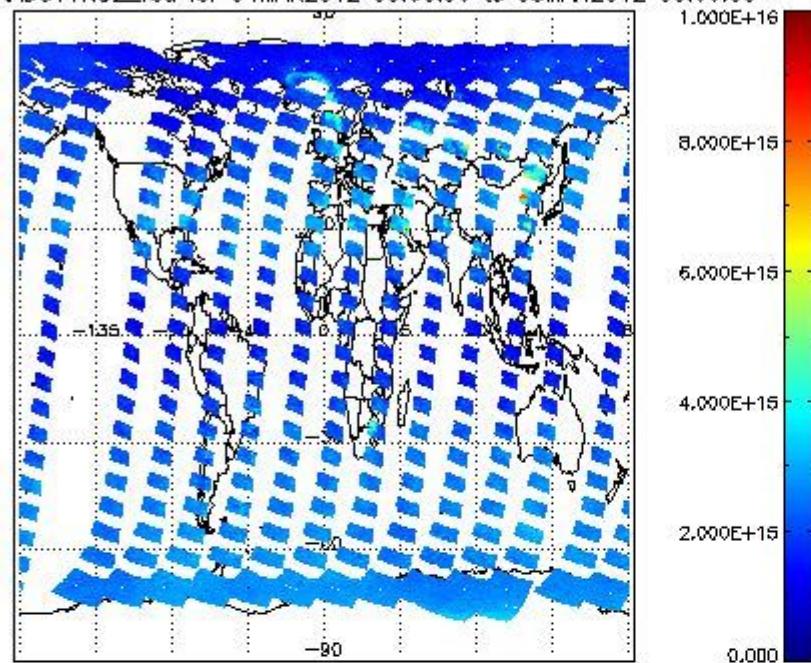
SCIOL2P_NADUV003_amf_cl for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



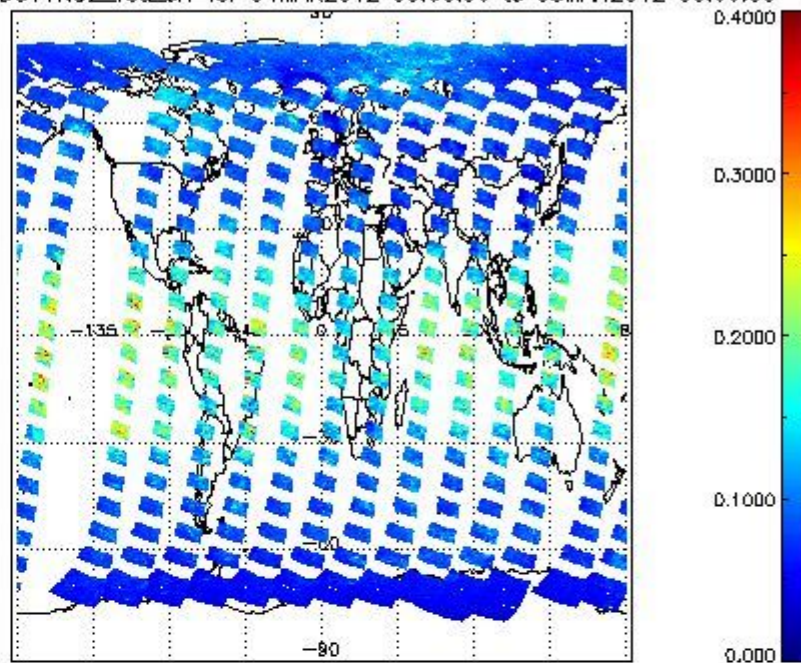
2.2.2.2 NO2 (UV1)



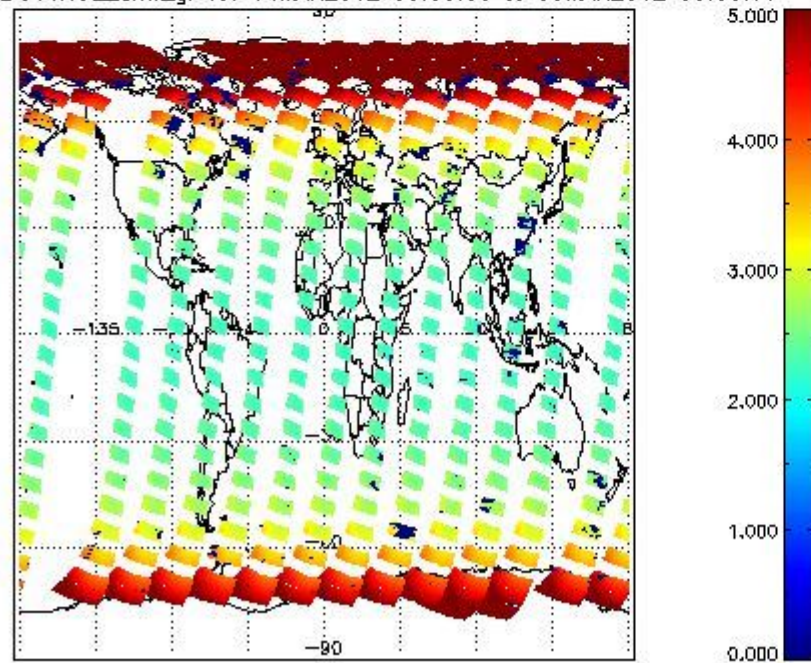
SCIOL2P_NADUV1NO2_vcd for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



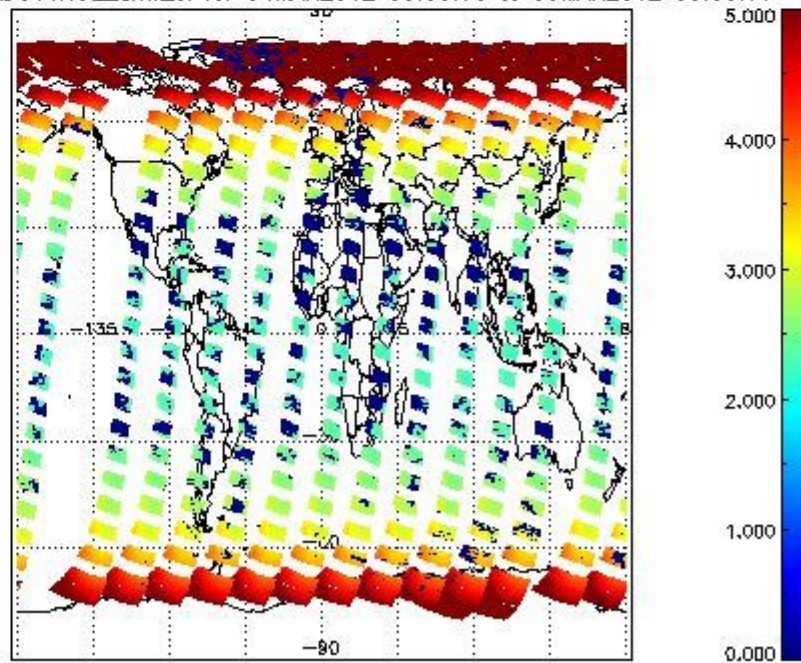
SCIOL2P_NADUV1NO2_vcd_err for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



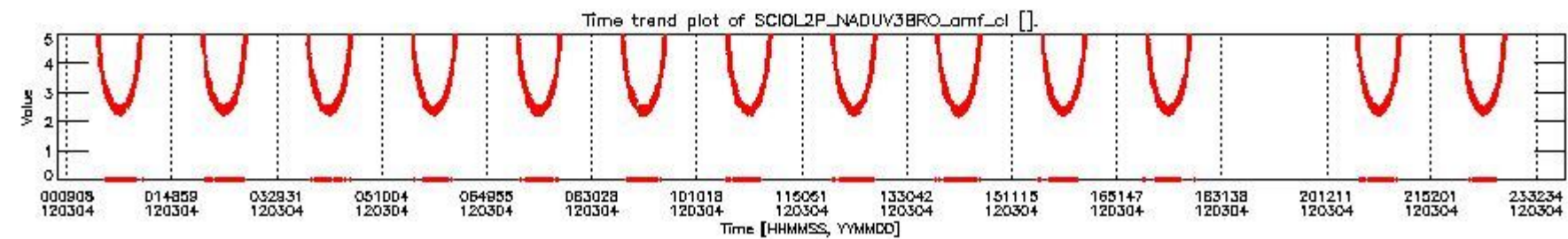
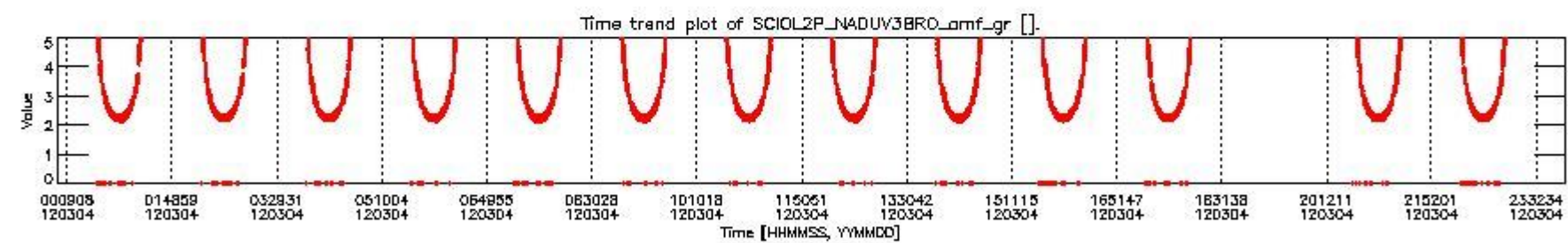
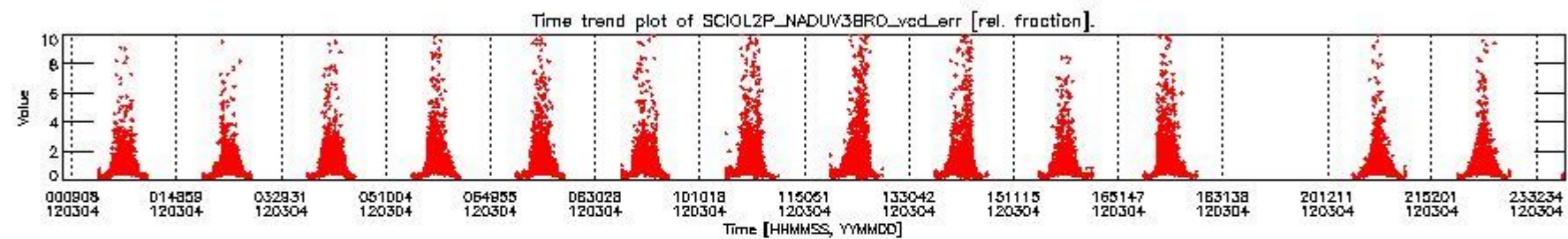
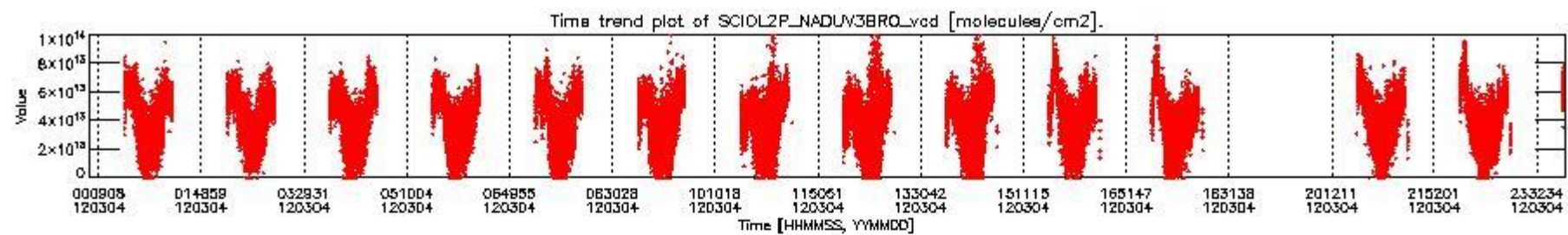
SCIOL2P_NADUV1NO2_amf_gr for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



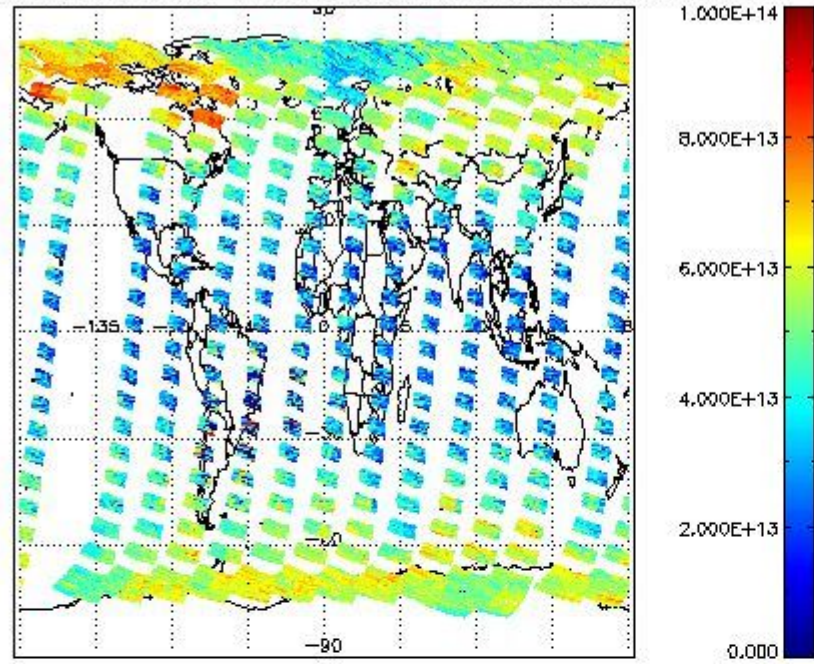
SCIOL2P_NADUV1NO2_amf_cl for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



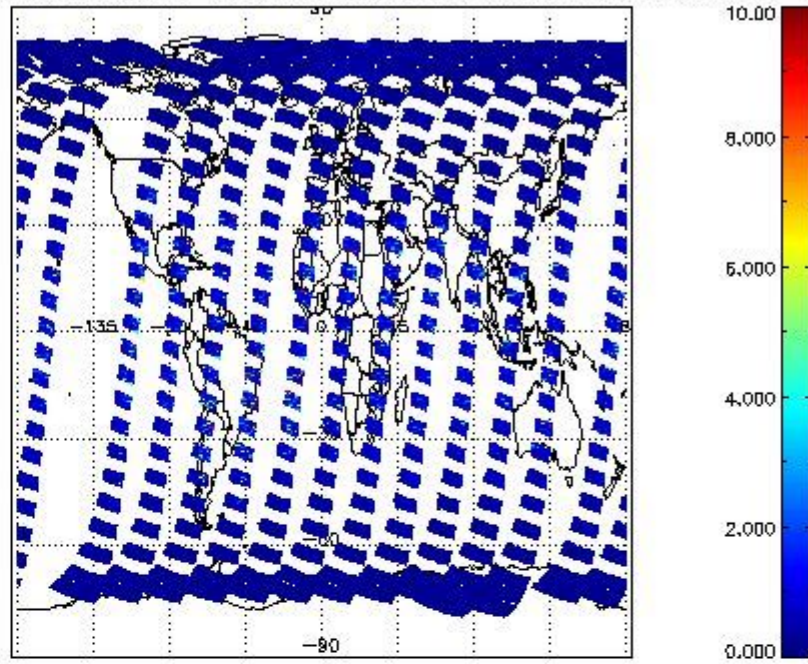
2.2.2.3 BrO (UV3)



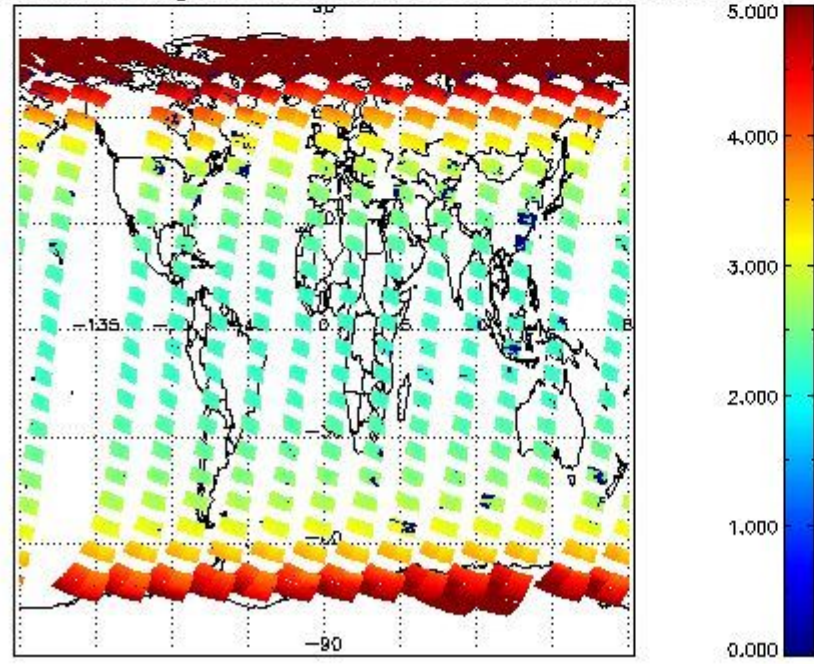
SCIOL2P_NADUV3BRO_vcd for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



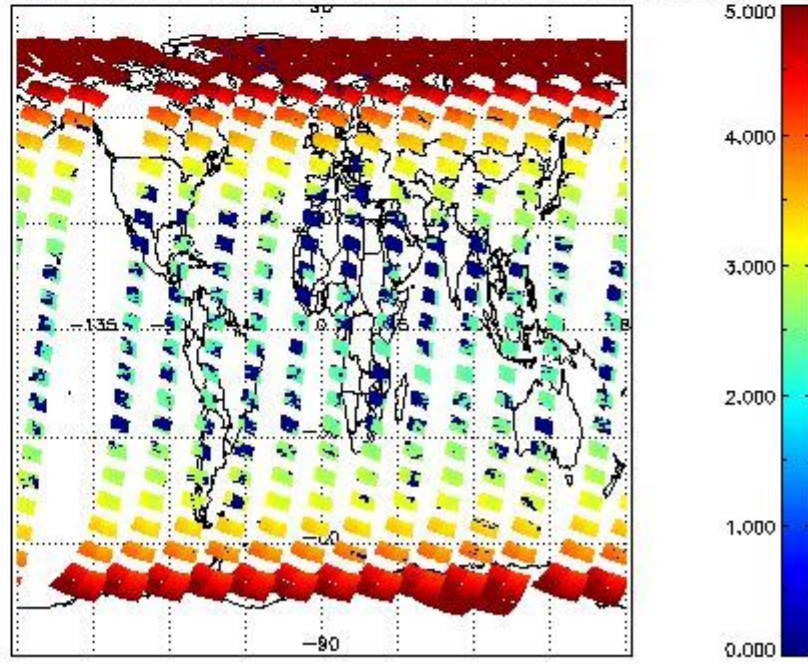
SCIOL2P_NADUV3BRO_vcd_err for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



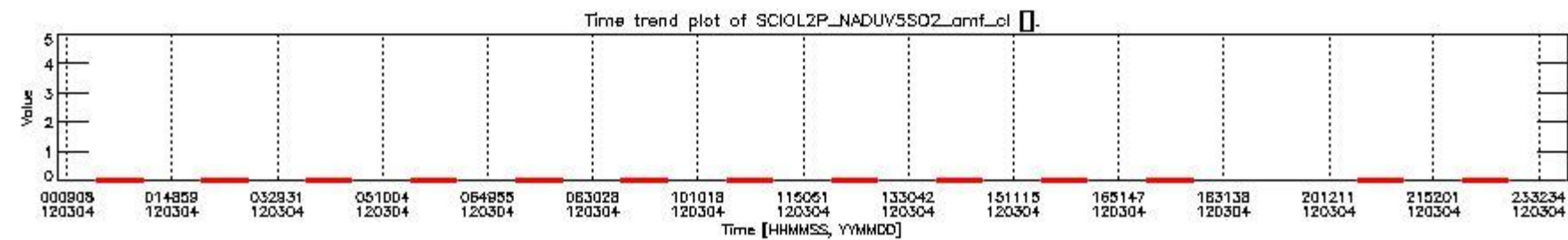
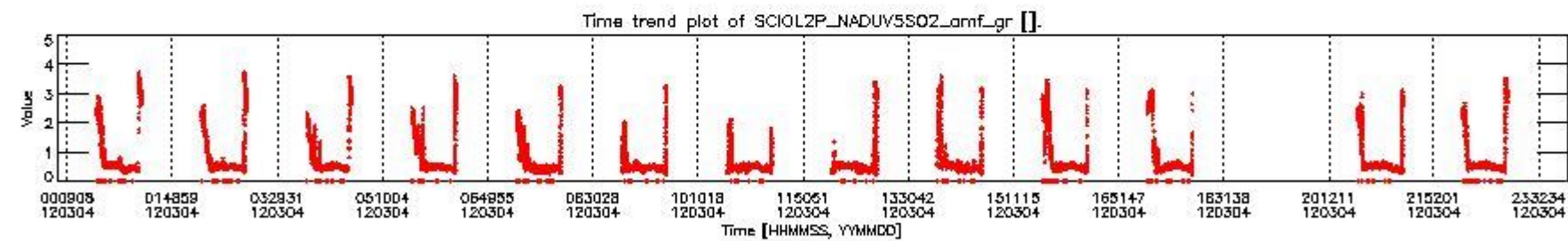
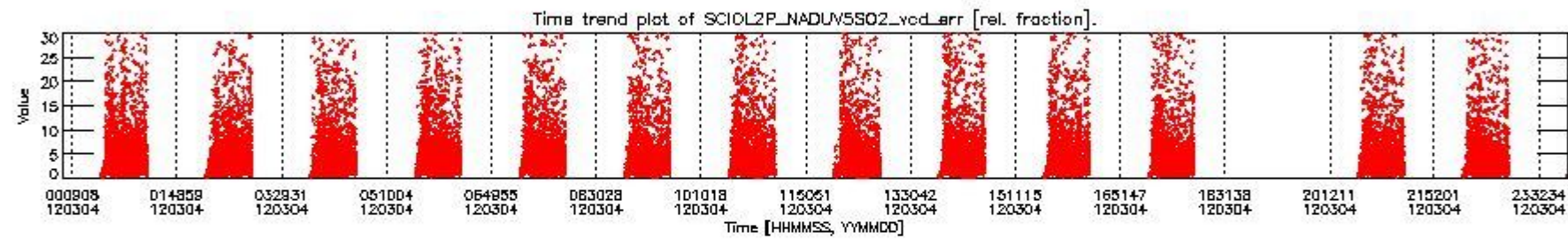
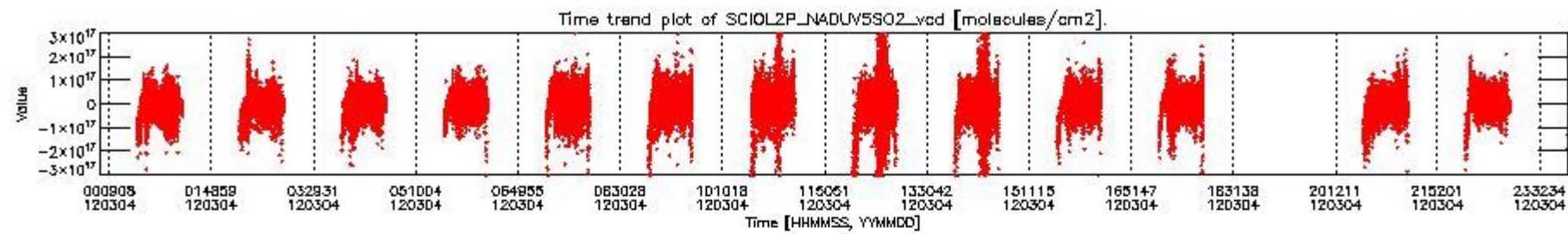
SCIOL2P_NADUV3BRO_amf_gr for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



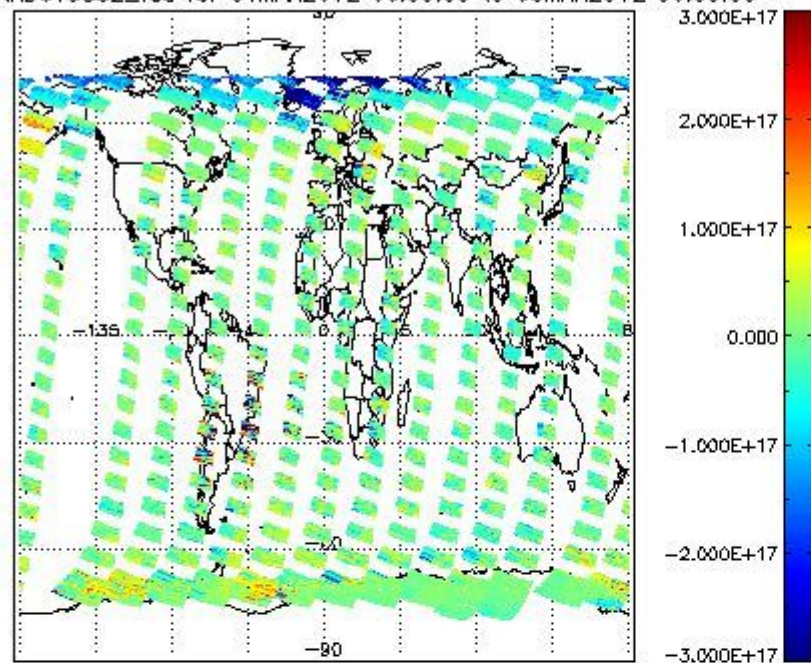
SCIOL2P_NADUV3BRO_amf_cl for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



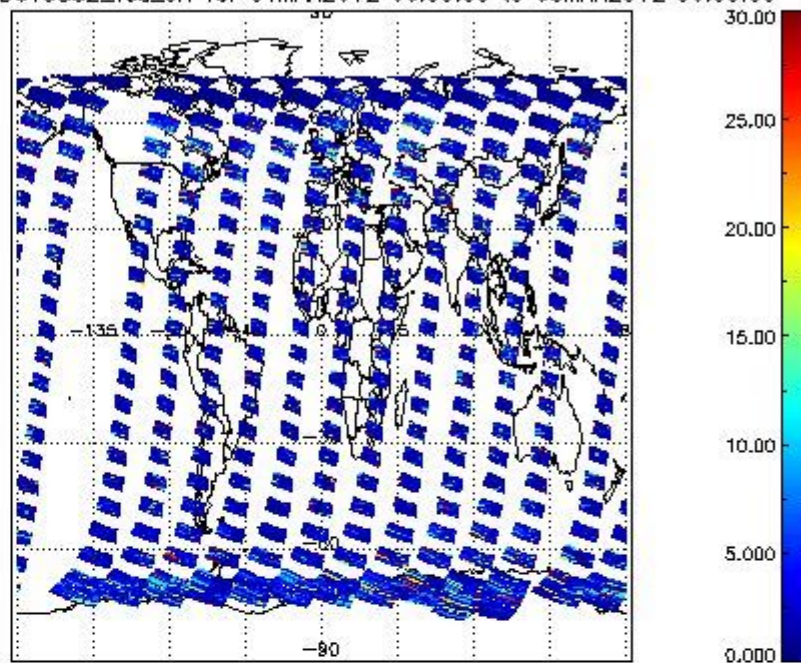
2.2.2.4 SO2 (UV5)



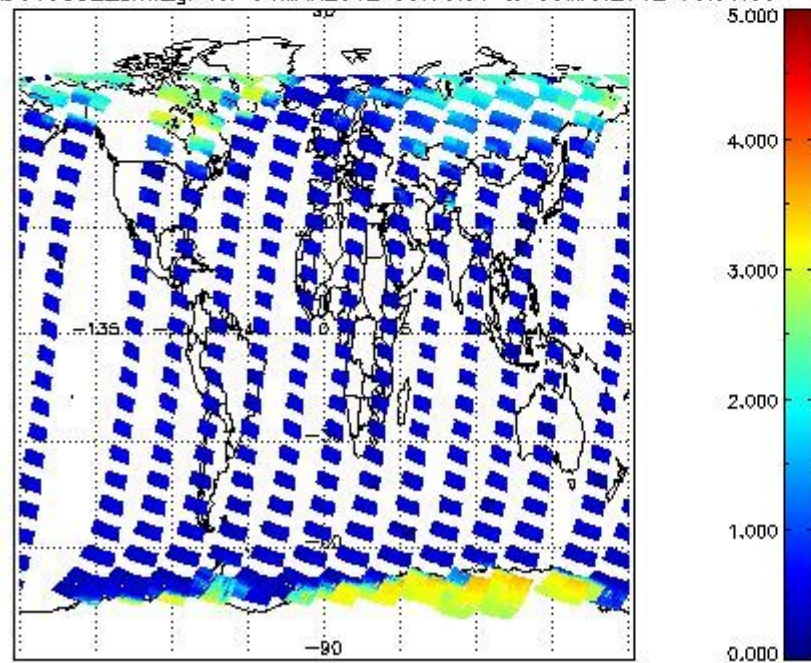
SCIOL2P_NADUV5S02_vcd for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



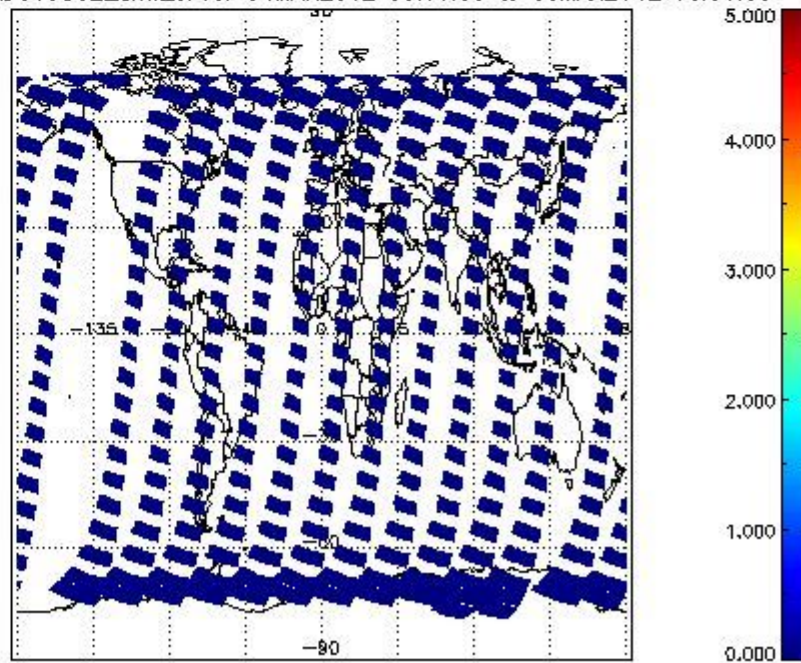
SCIOL2P_NADUV5S02_vcd_err for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



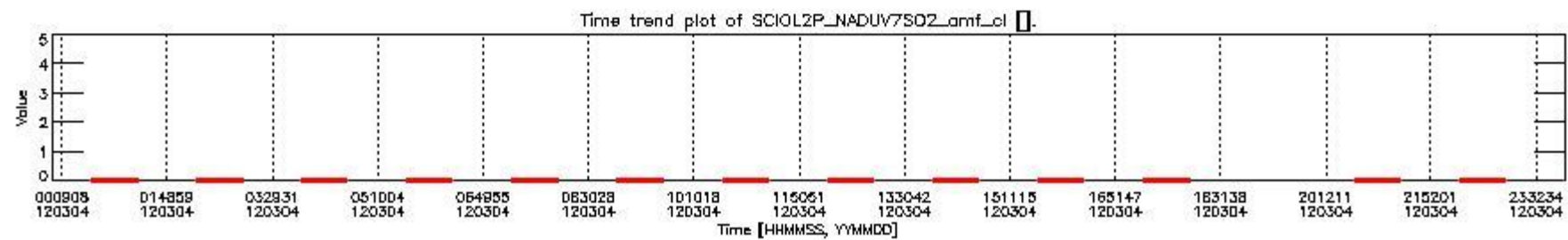
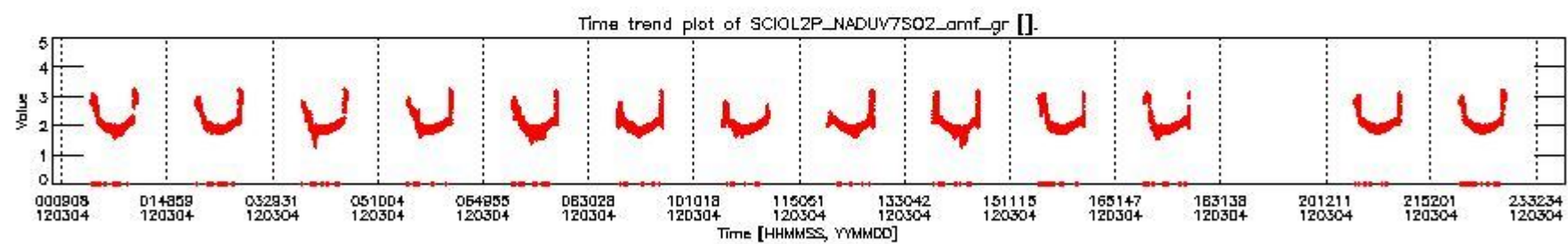
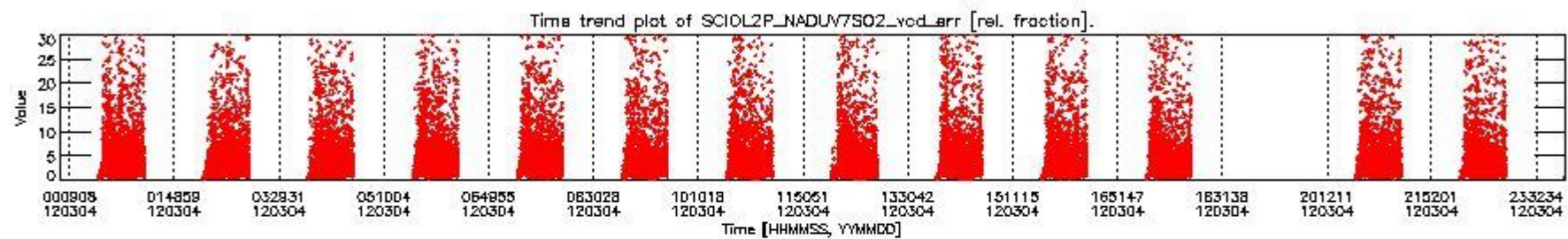
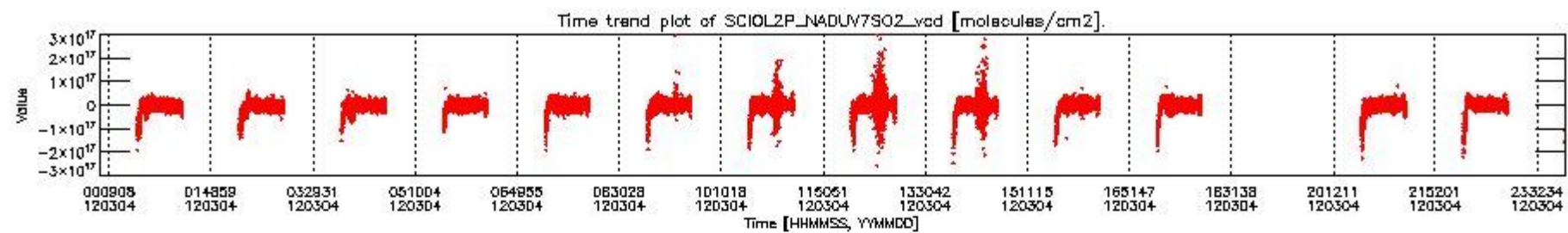
SCIOL2P_NADUV5S02_amf_gr for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



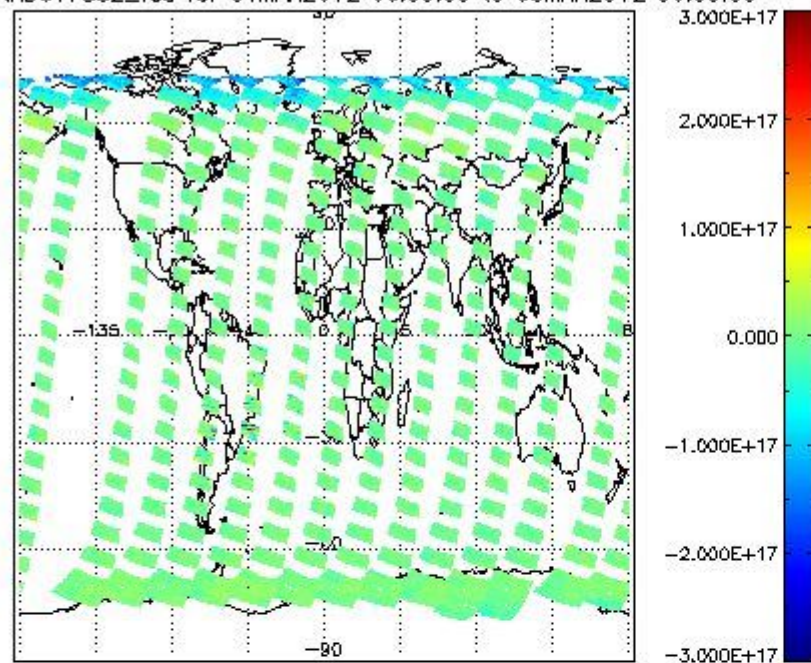
SCIOL2P_NADUV5S02_amf_cl for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



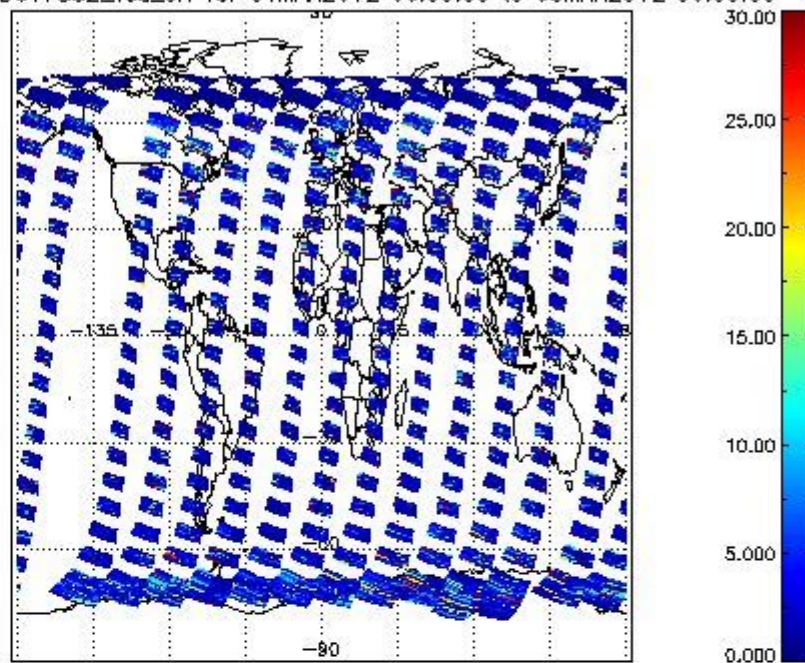
2.2.2.5 SO2 (UV7)



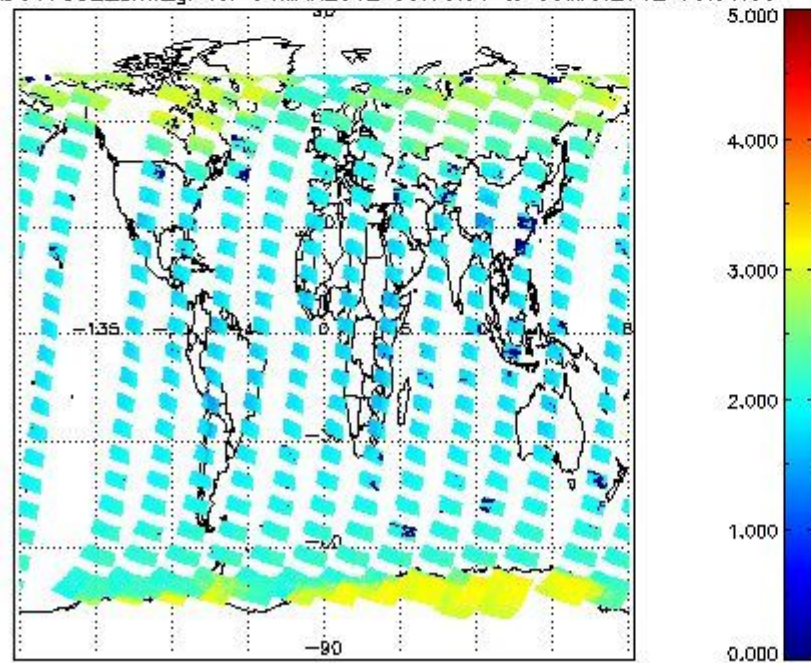
SCIOL2P_NADUV7S02_vcd for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



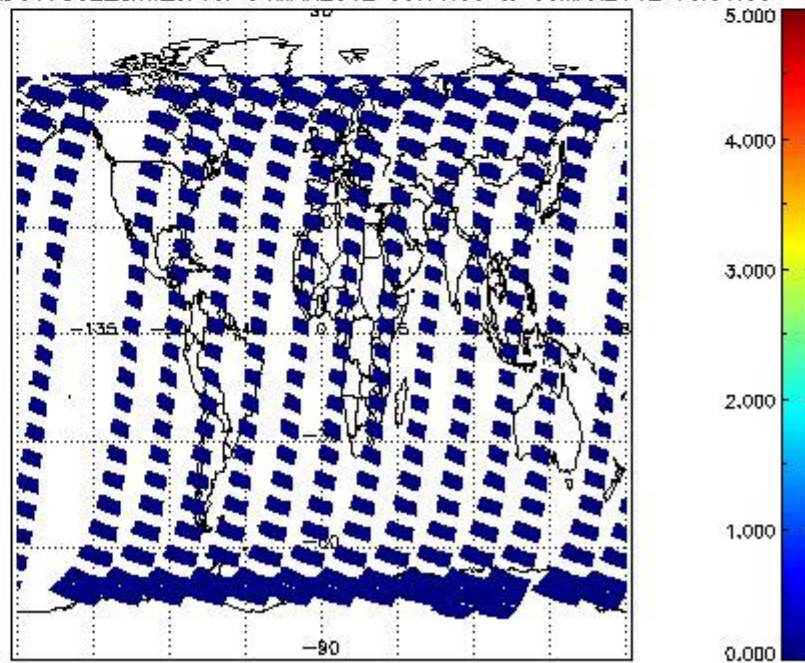
SCIOL2P_NADUV7S02_vcd_err for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



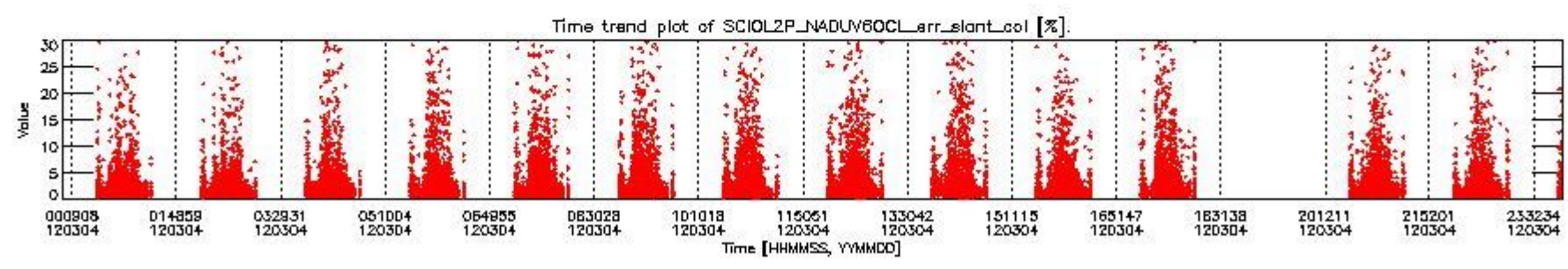
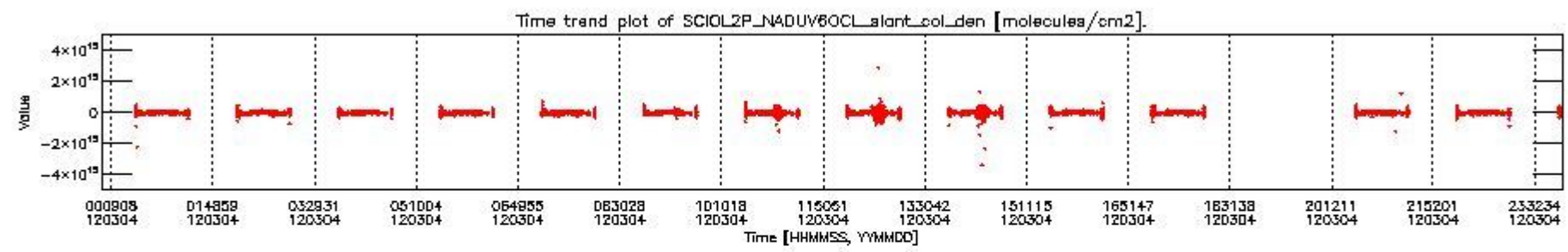
SCIOL2P_NADUV7S02_amf_gr for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



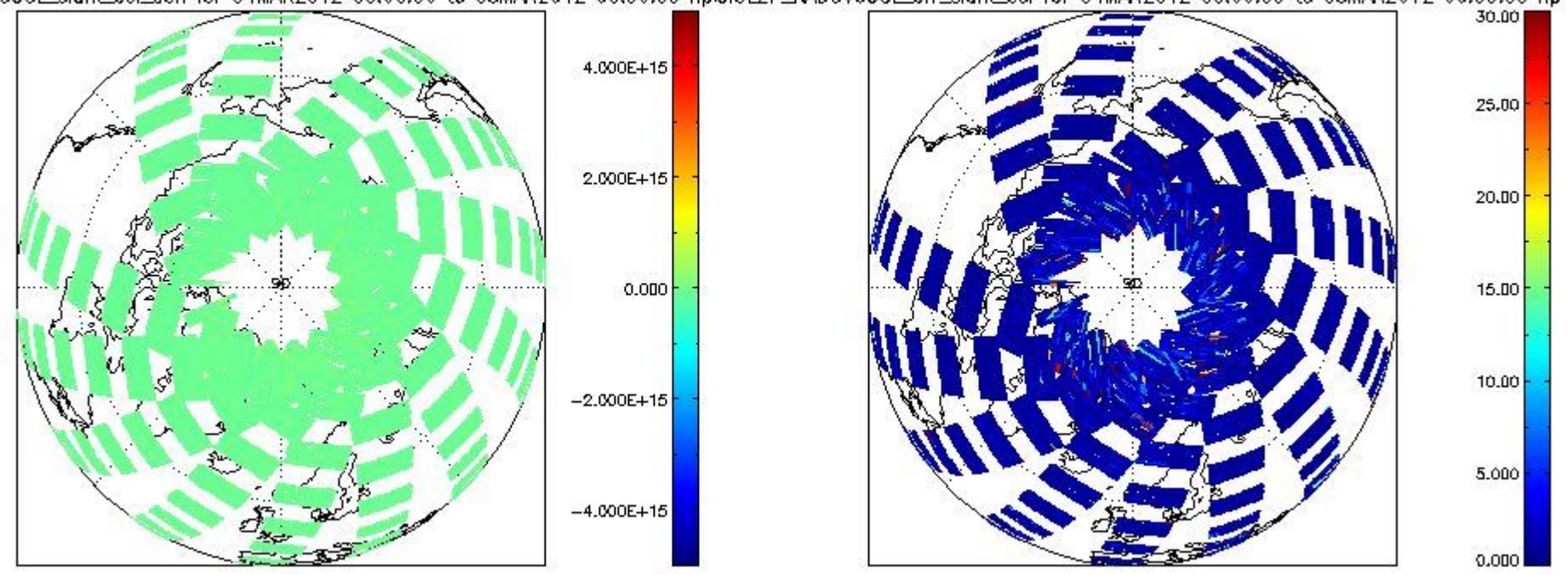
SCIOL2P_NADUV7S02_amf_cl for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



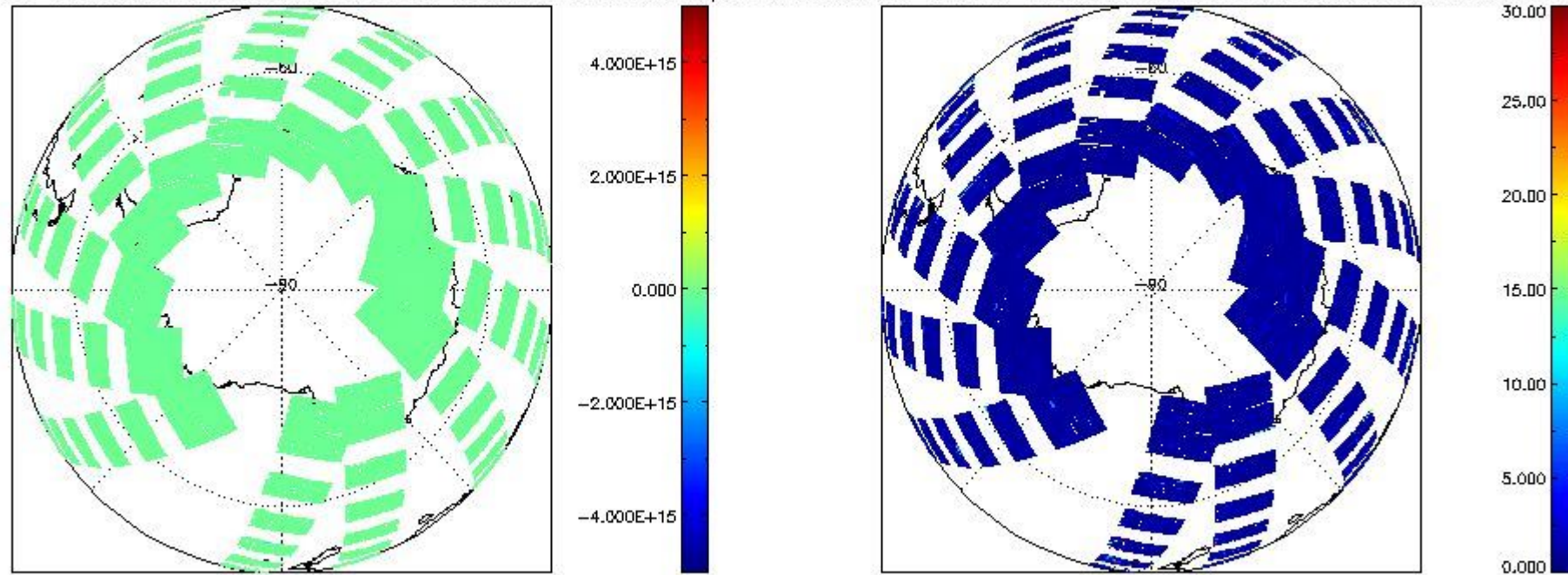
2.2.2.6 OCIO (UV6)



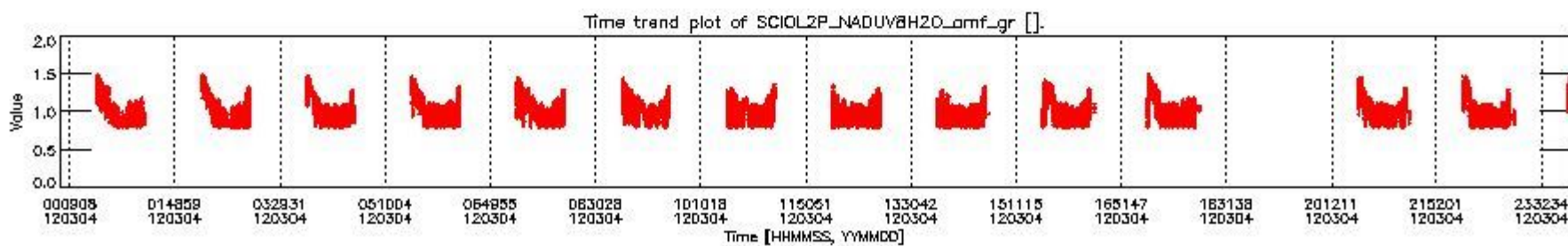
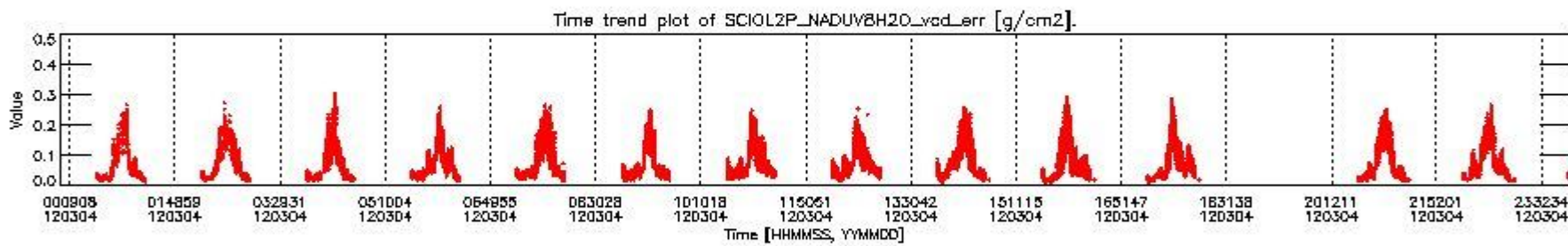
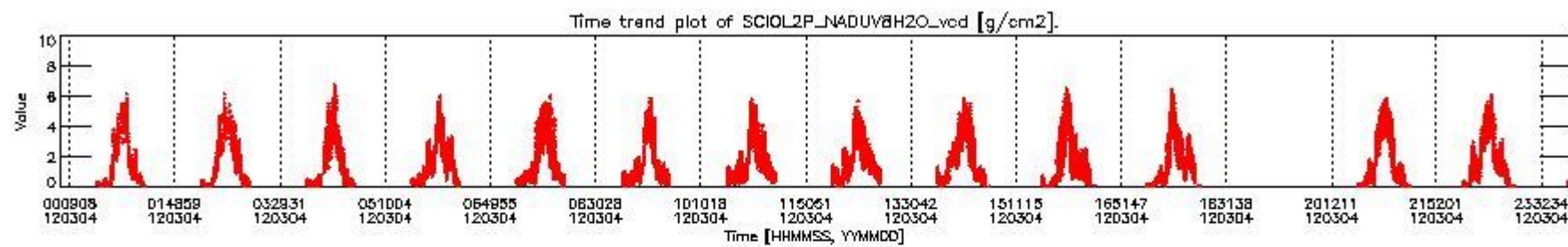
CIOL2P_NADUV6OCLslant_col_den for 04MAR2012 00:00:00 to 05MAR2012 00:00:00 npCIOL2P_NADUV6OCLerr_slant_col for 04MAR2012 00:00:00 to 05MAR2012 00:00:00 np



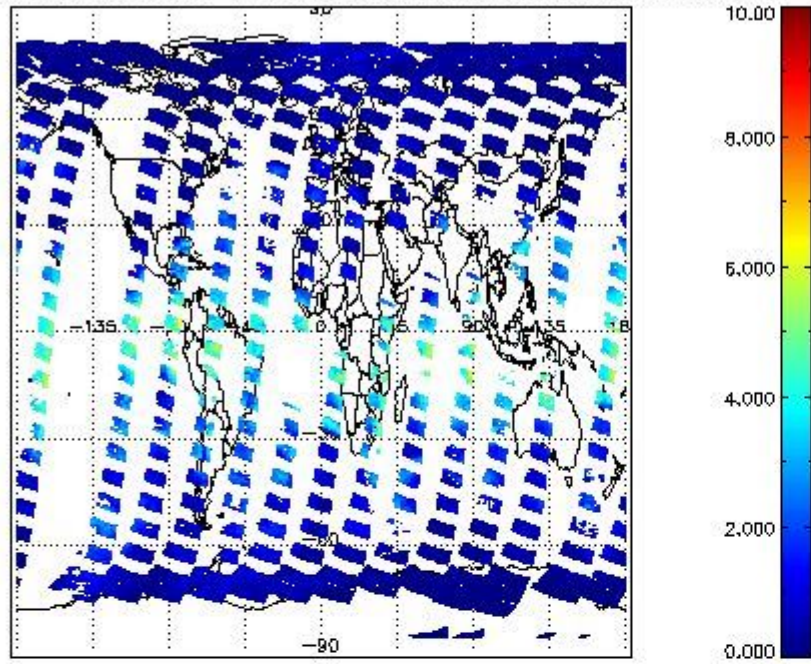
CIOL2P_NADUV6OCL_slant_coLden for 04MAR2012 00:00:00 to 05MAR2012 00:00:00 spCIOL2P_NADUV6OCL_err_slant_col for 04MAR2012 00:00:00 to 05MAR2012 00:00:00 sp



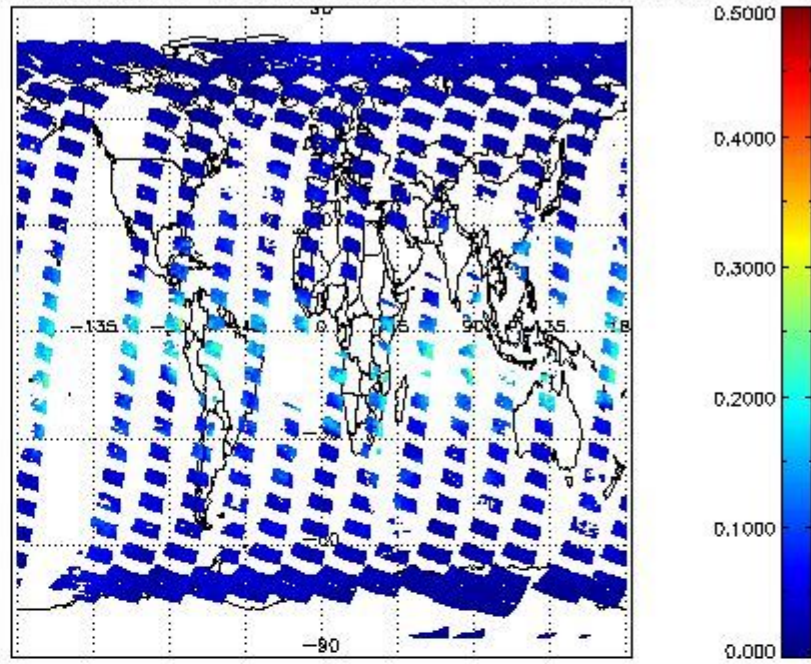
2.2.2.7 H2O (UV8)



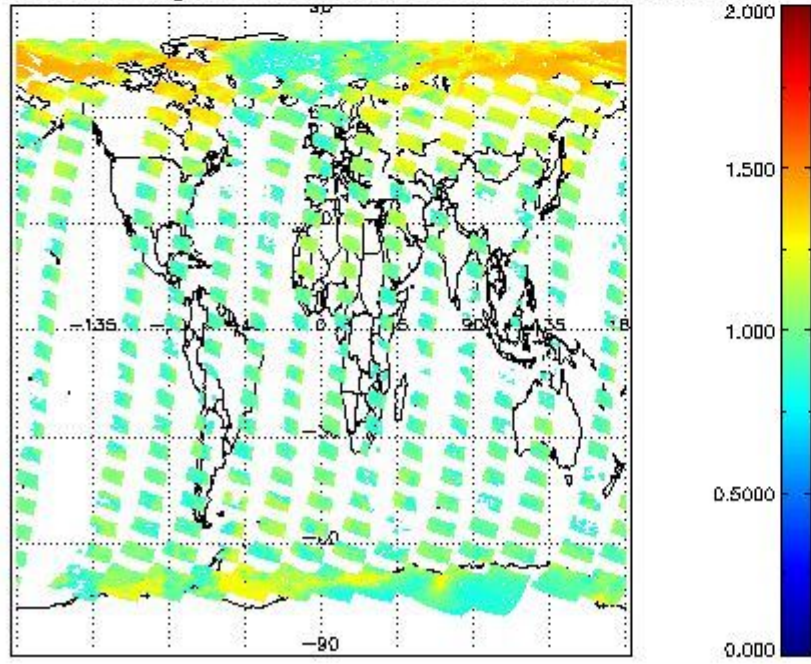
SCIOL2P_NADUV8H2O_vcd for 04MAR2012 00:00:00 to 05MAR2012 00:00:00

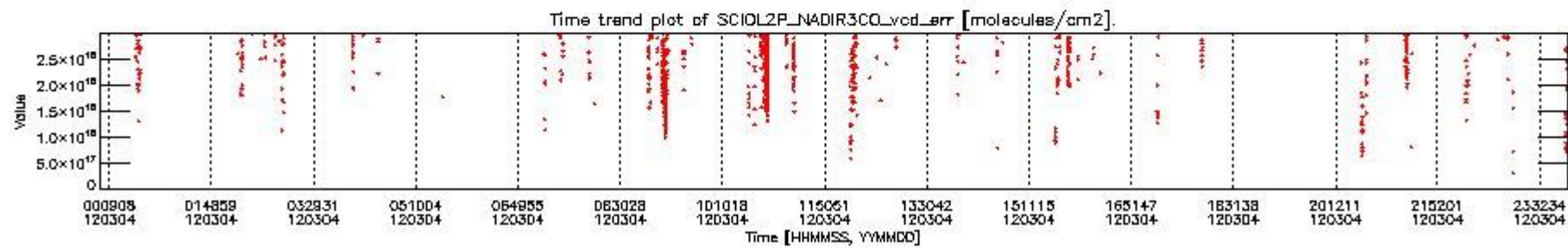
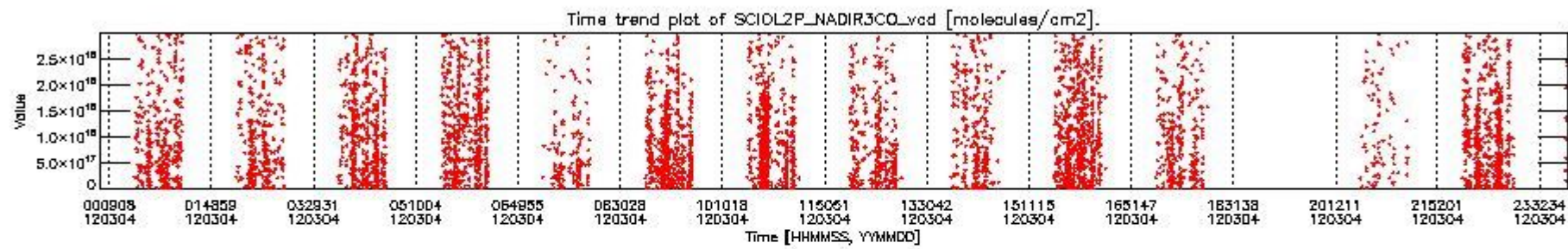


SCIOL2P_NADUV8H2O_vcd_err for 04MAR2012 00:00:00 to 05MAR2012 00:00:00

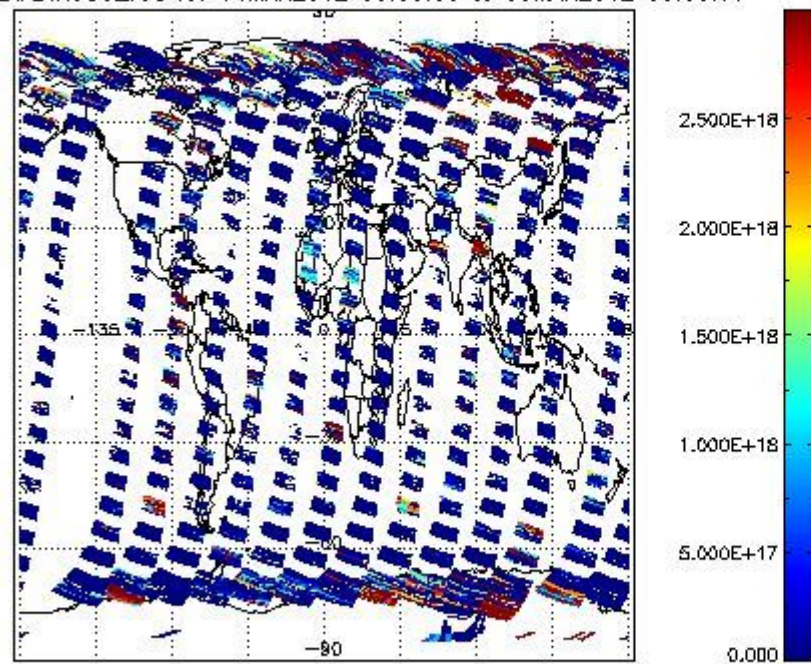


SCIOL2P_NADUV8H2O_arnf_gr for 04MAR2012 00:00:00 to 05MAR2012 00:00:00

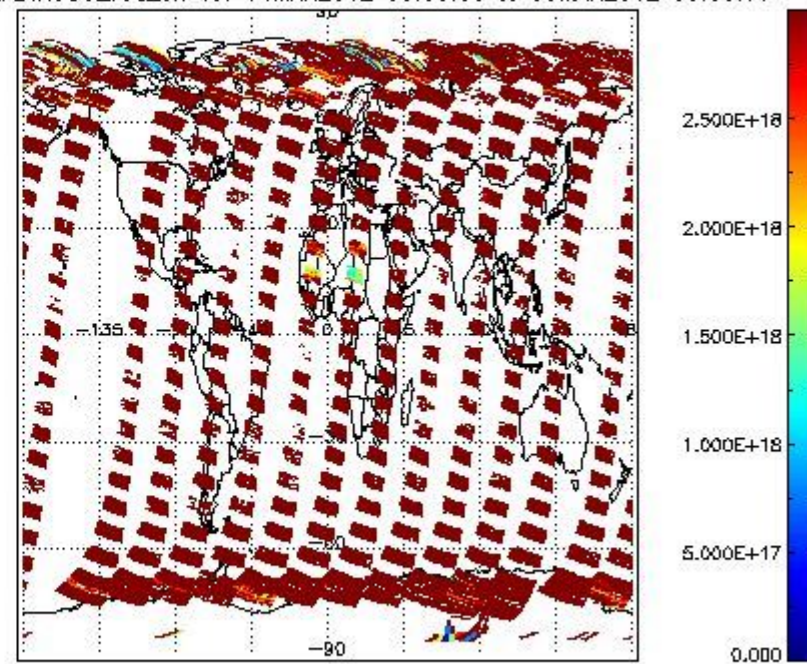




SCIDL2P_NADIR3CO_vcd for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



SCIDL2P_NADIR3CO_vcd_err for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



2.2.3 Limb

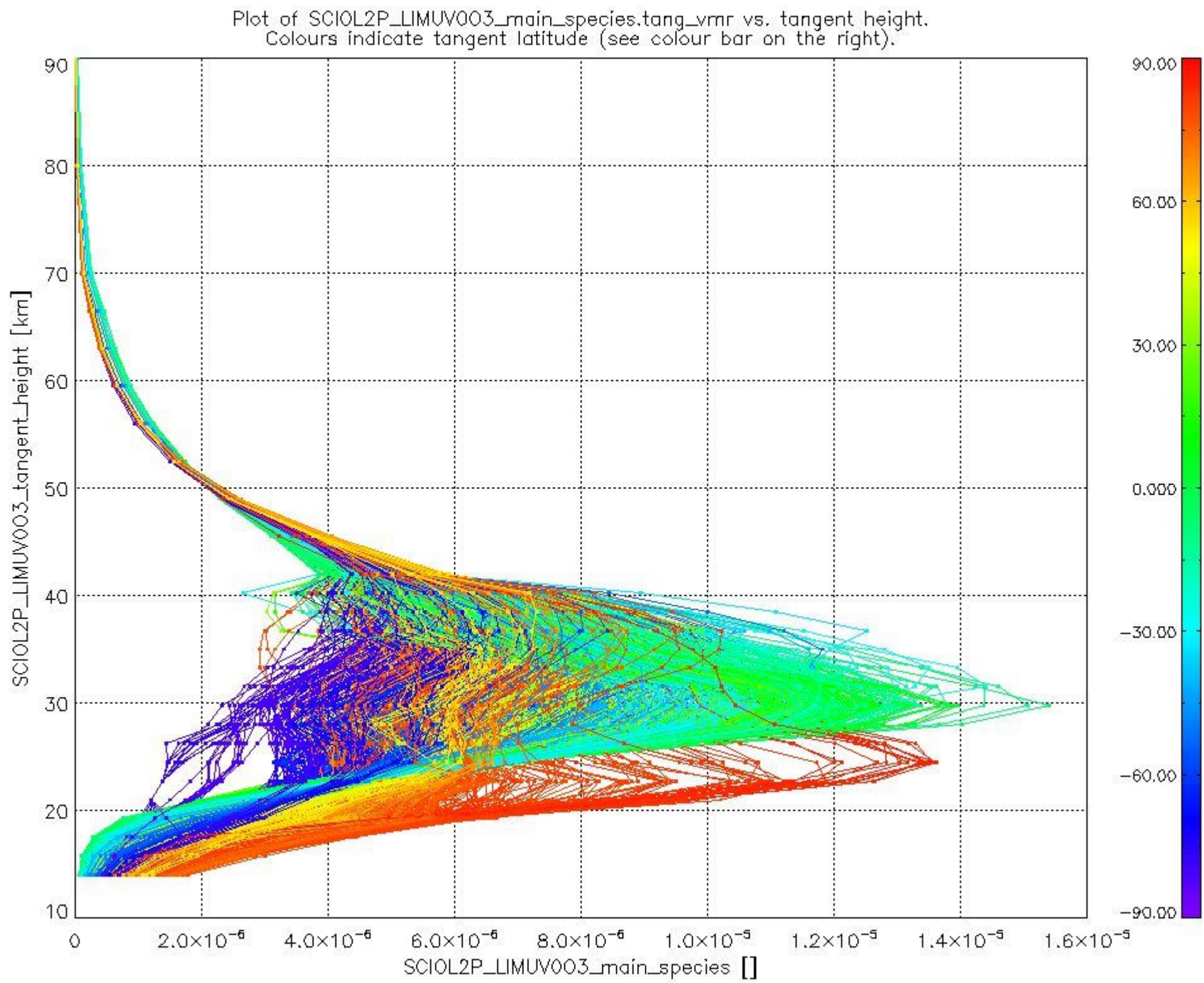
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

The following data items are currently included into this section:

Number	Data item ID
0	SCIDL2P_LIMUV003_main_species
1	SCIDL2P_LIMUV1NO2_main_species
2	SCIDL2P_LIMUV3BRO_main_species

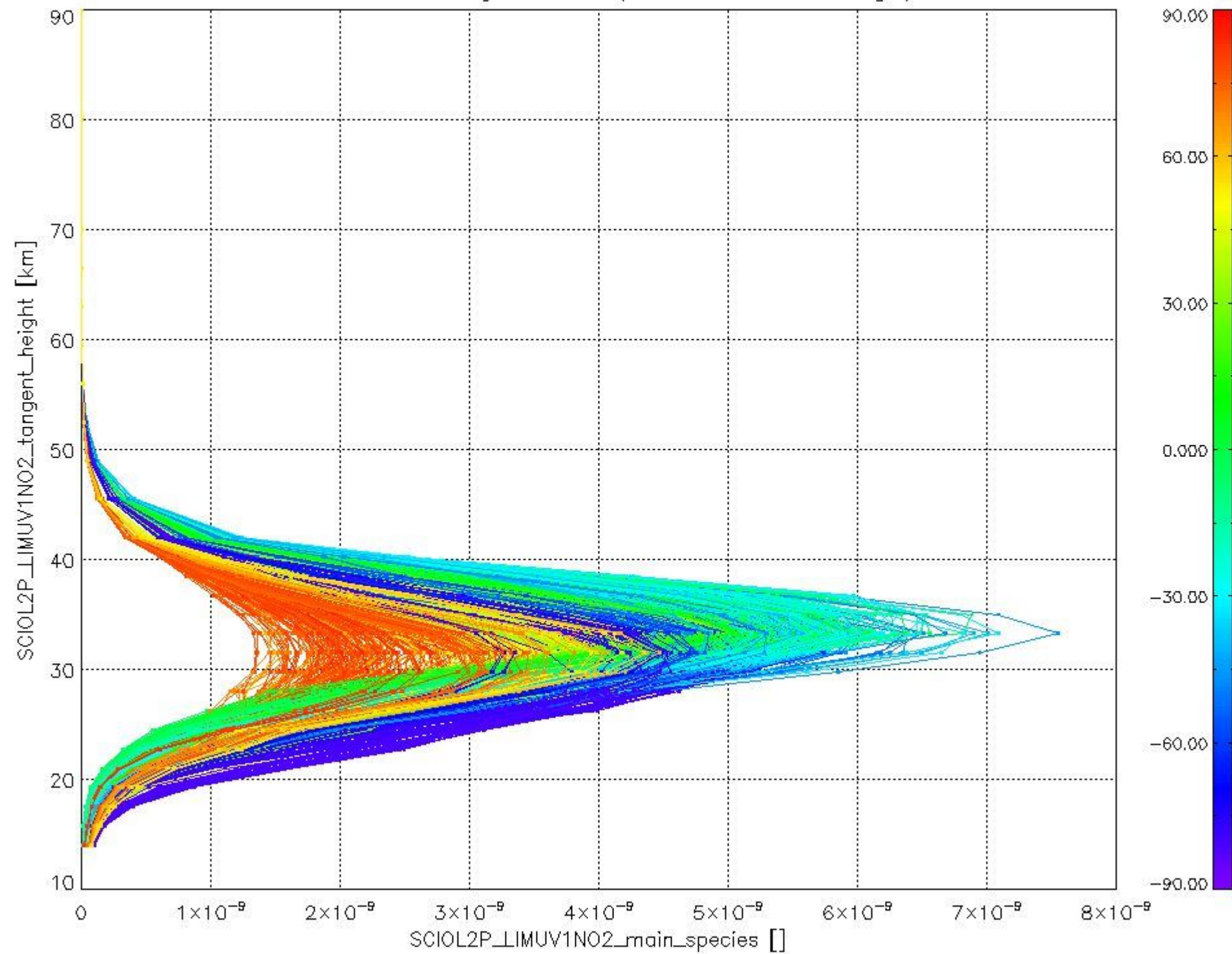
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



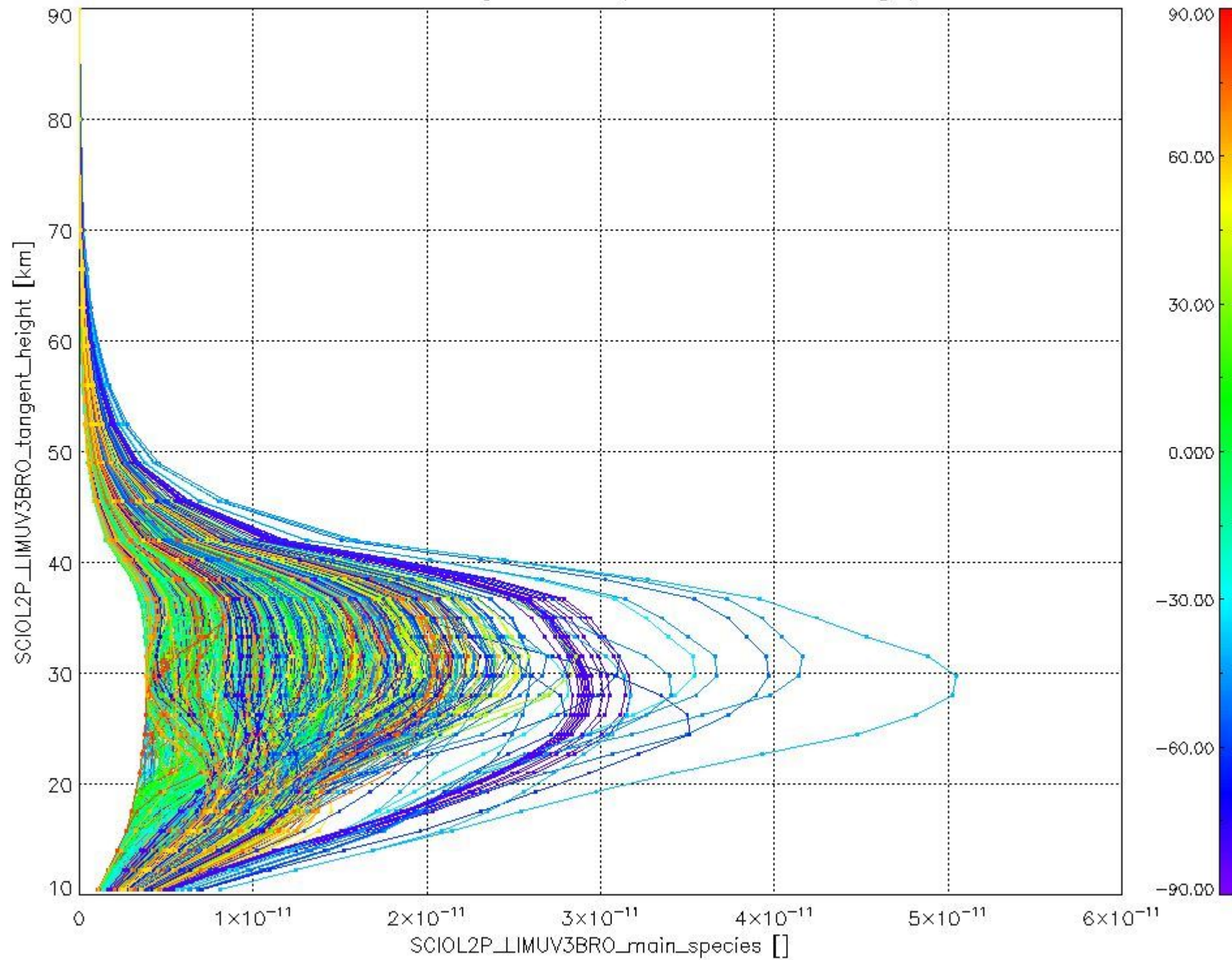
2.2.3.2 NO2 (UV1)

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



2.2.3.3 BrO (UV3)

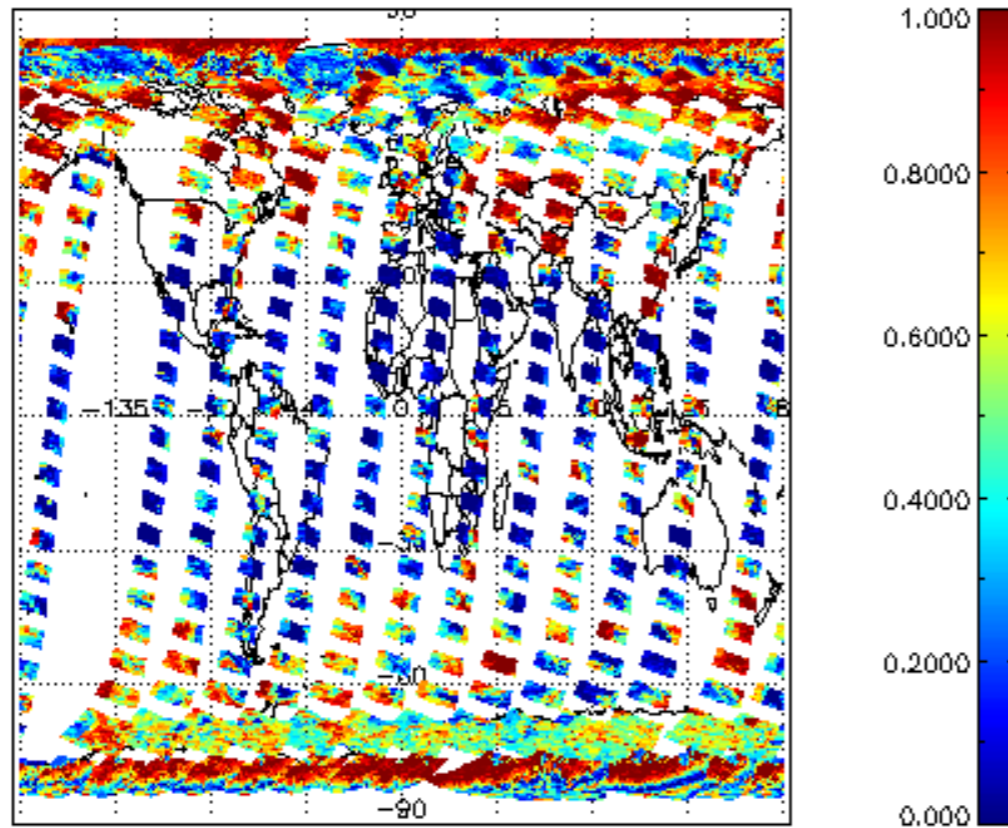
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



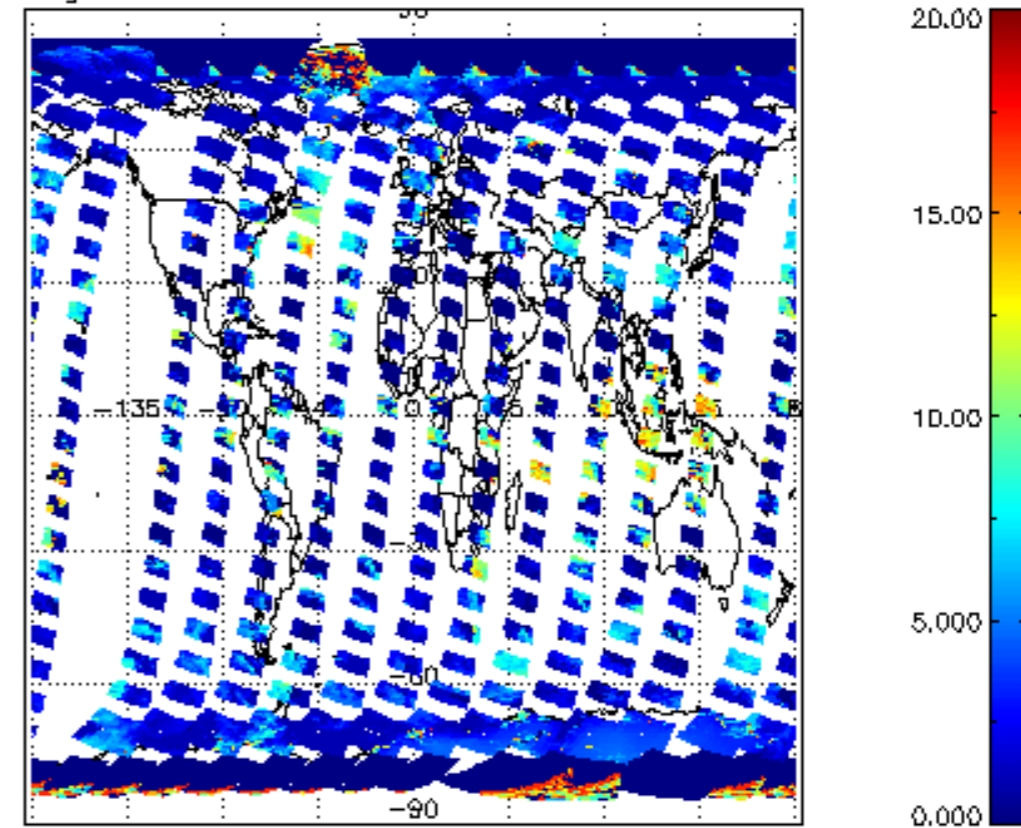
2.3 ADF monitoring

Number	ADF
	IN_ (INITIALISATION_FILE)
0	SCI_IN_AXNPDE20110201_120000_20020301_000000_20991231_235959
	ECF (ECMWF_FILE)
1	NOT USED
	MF1 (M_FACTOR_FILE)
2	SCI_MF1_AXVIEC20120306_134710_20120303_184939_20120305_184939
3	SCI_MF1_AXVIEC20120306_134816_20120304_181254_20120306_181254

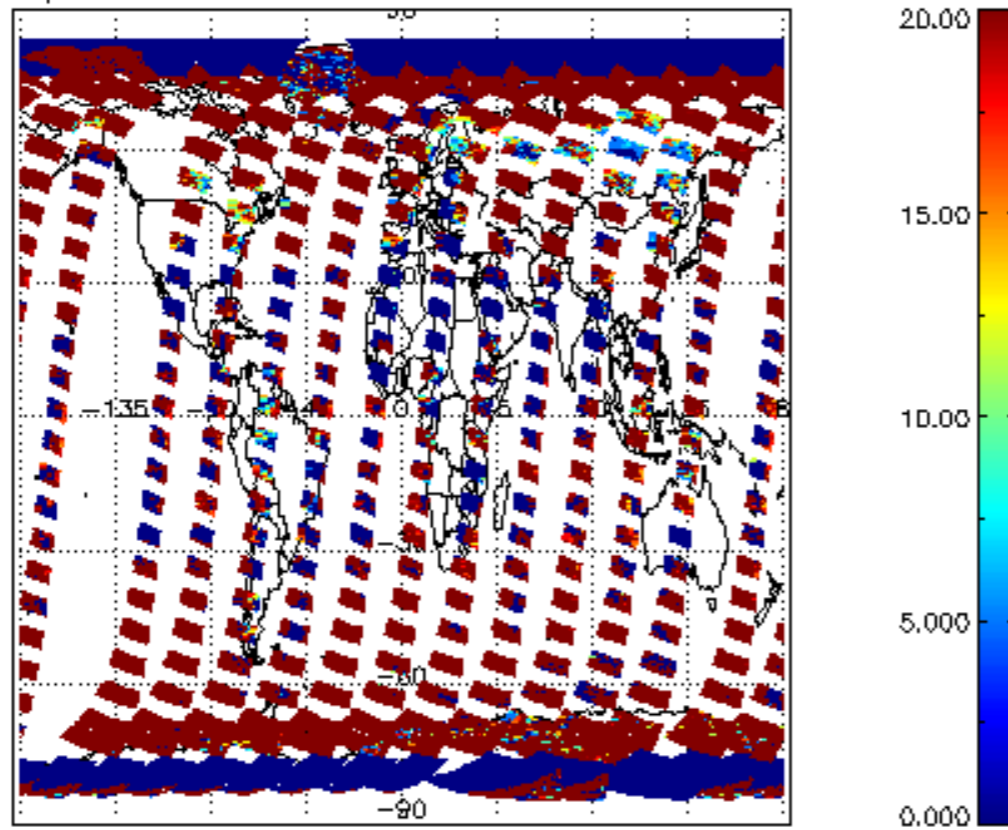
cL_frac for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



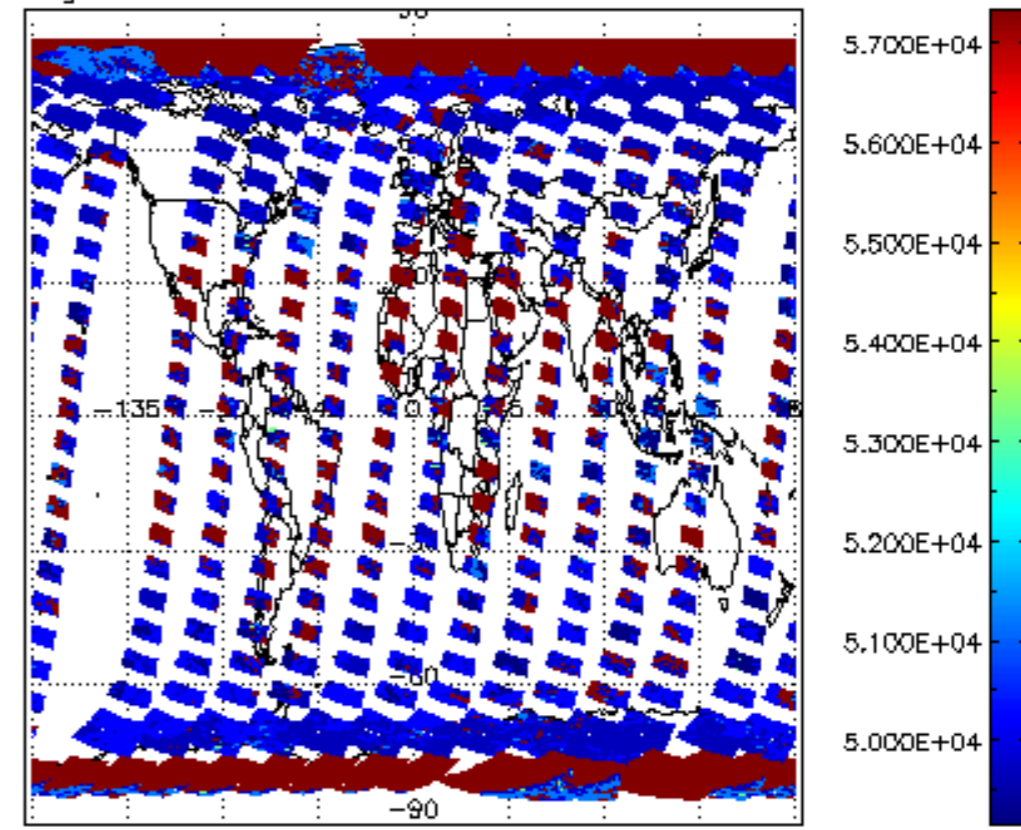
cL_top_height for 04MAR2012 00:00:00 to 05MAR2012 00:00:00

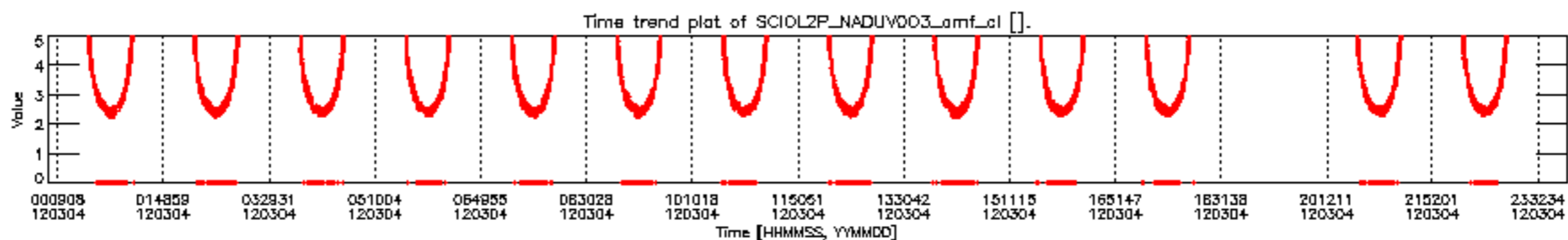
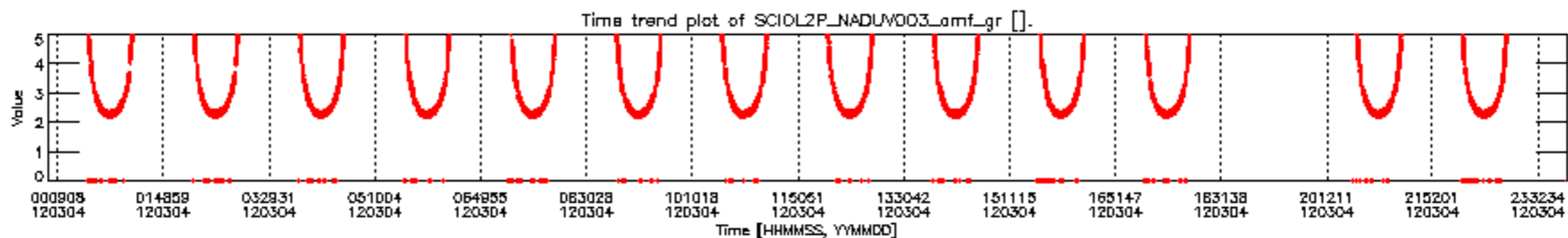
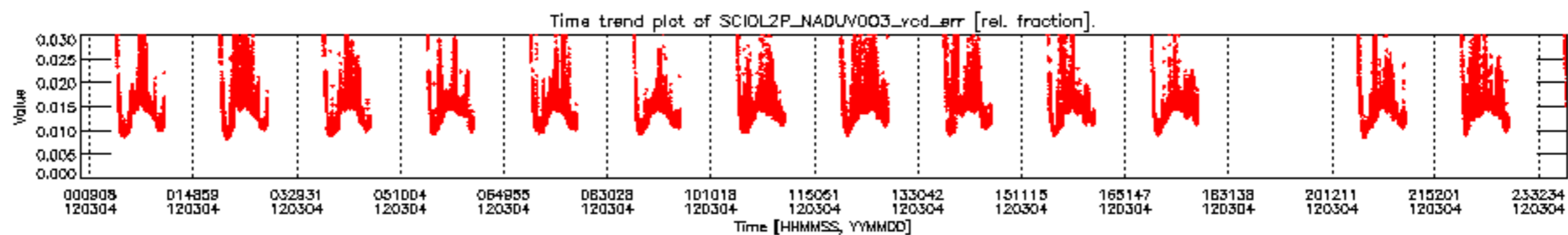
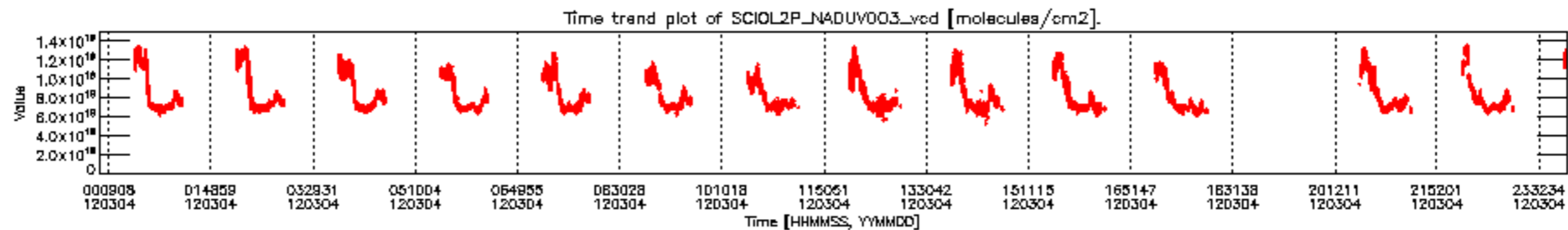


cL_opt_depth for 04MAR2012 00:00:00 to 05MAR2012 00:00:00

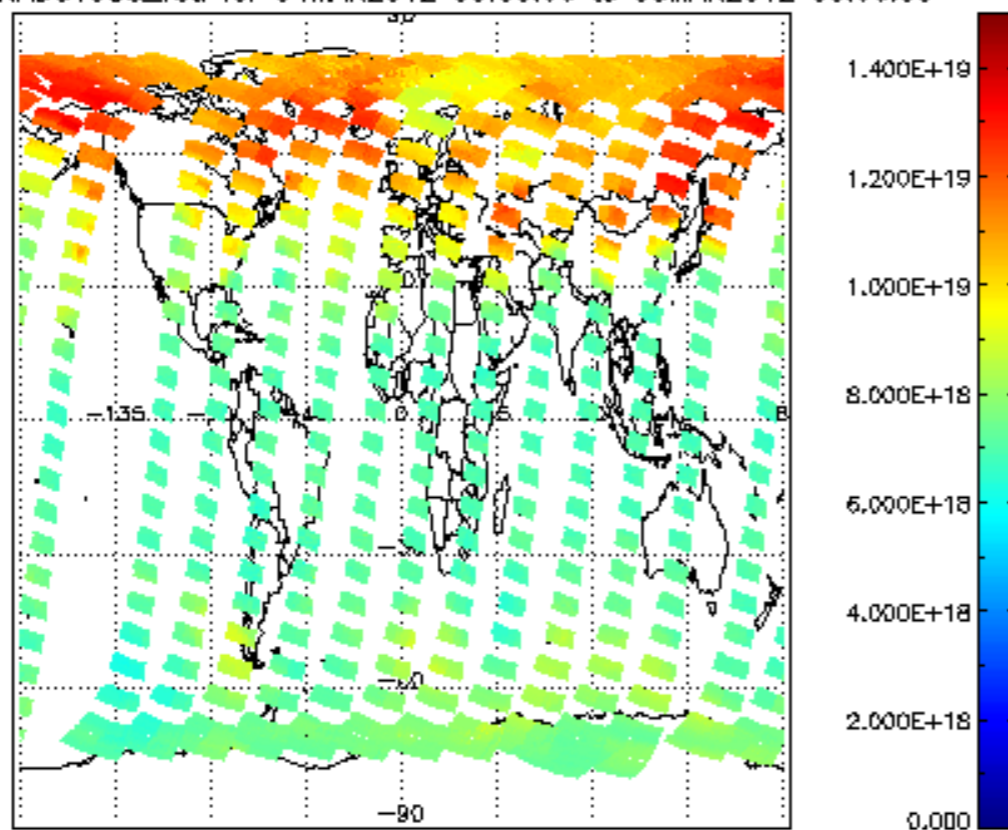


cloud_flags for 04MAR2012 00:00:00 to 05MAR2012 00:00:00

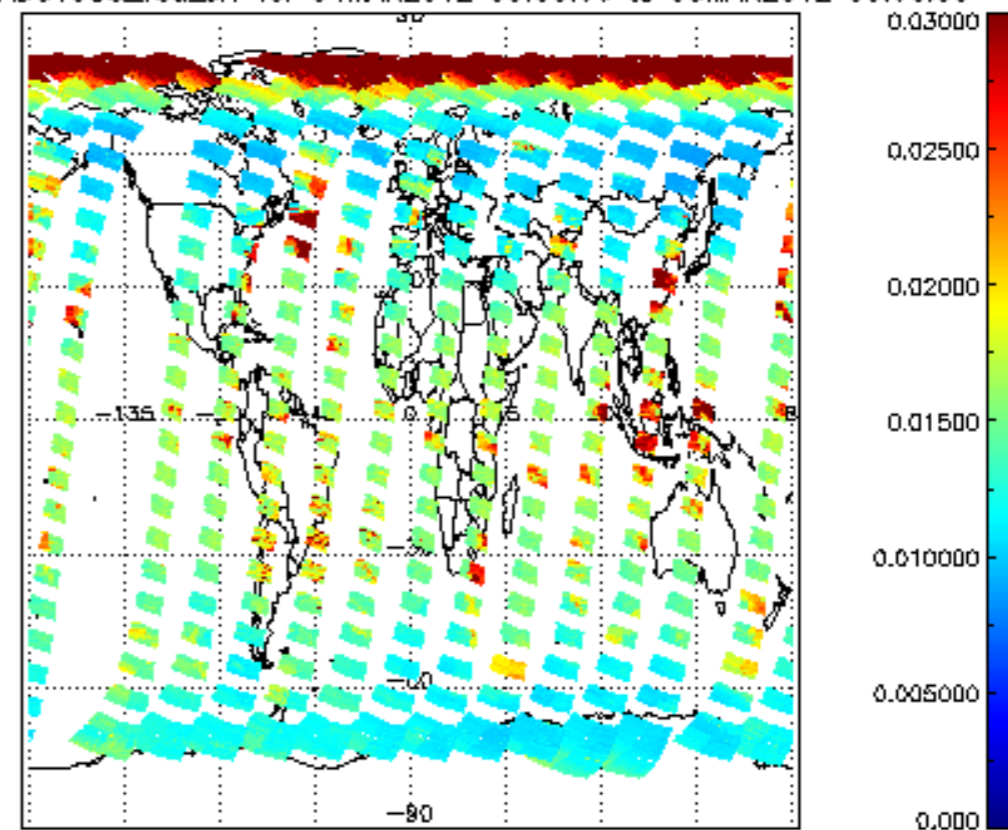




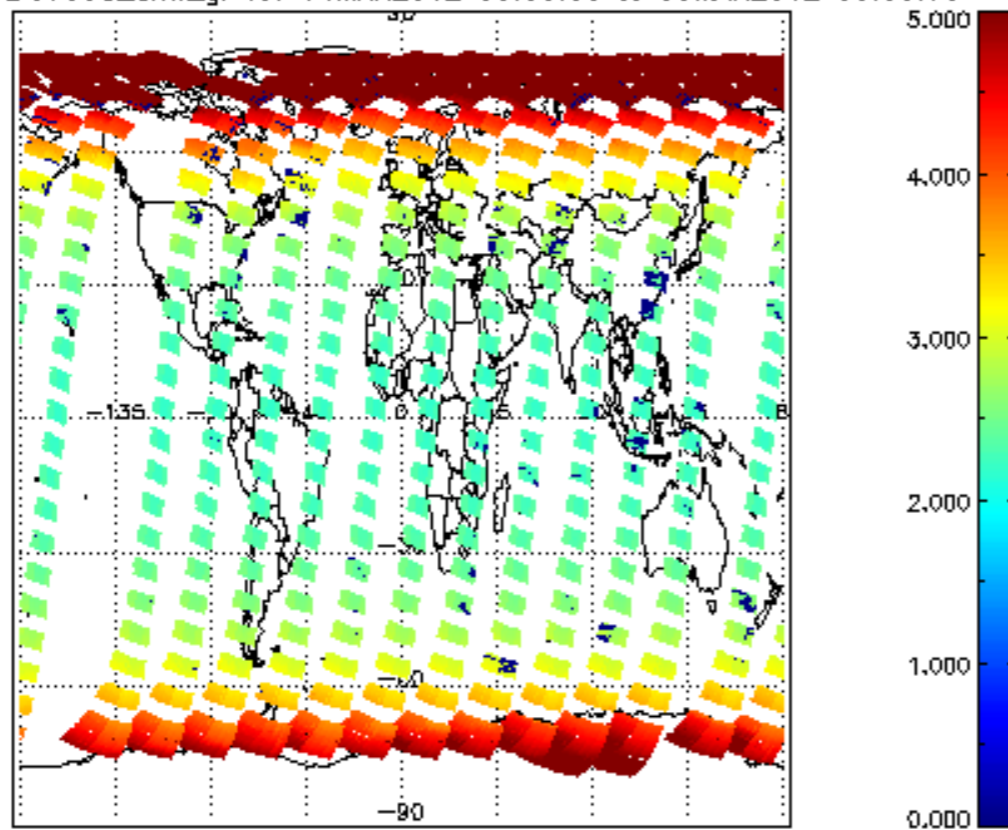
SCIOL2P_NADUV003_vcd for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



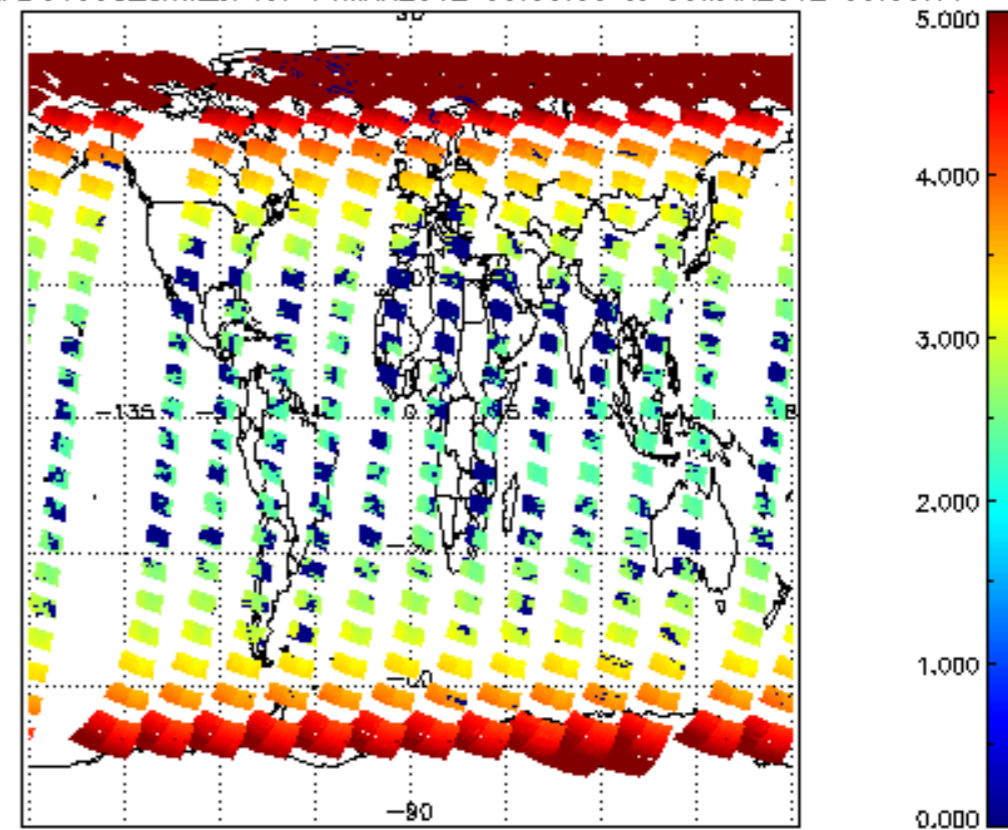
SCIOL2P_NADUV003_vcd_err for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



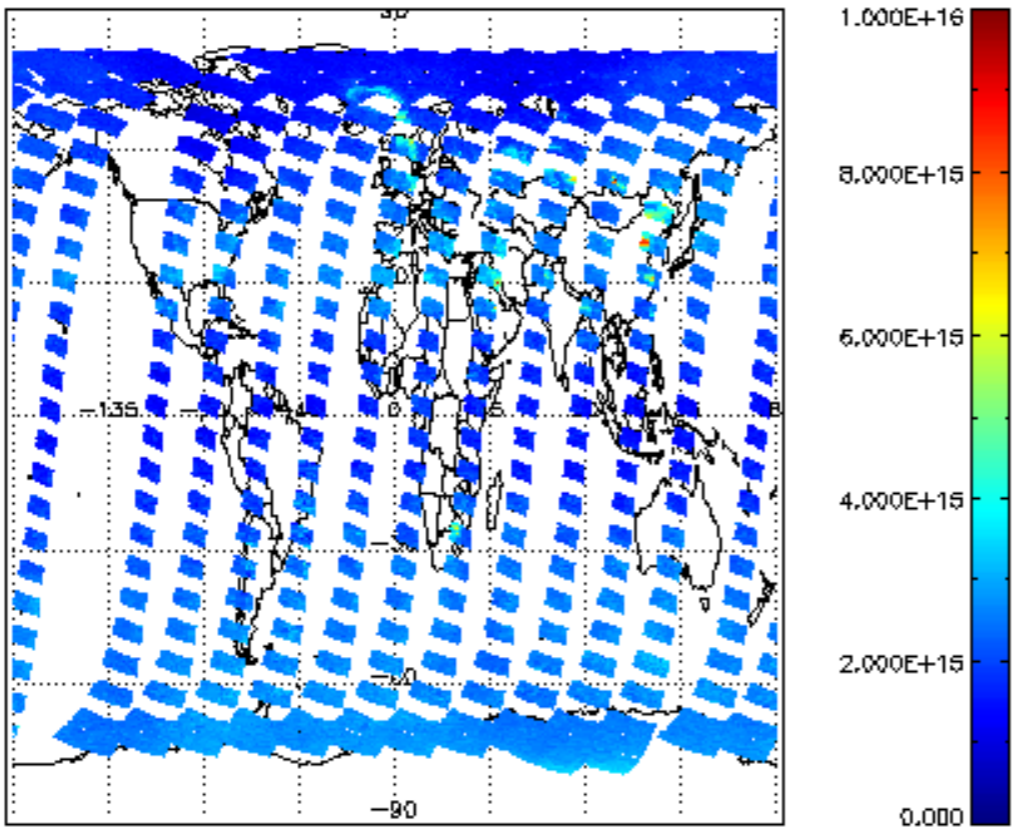
SCIOL2P_NADUV003_amf_gr for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



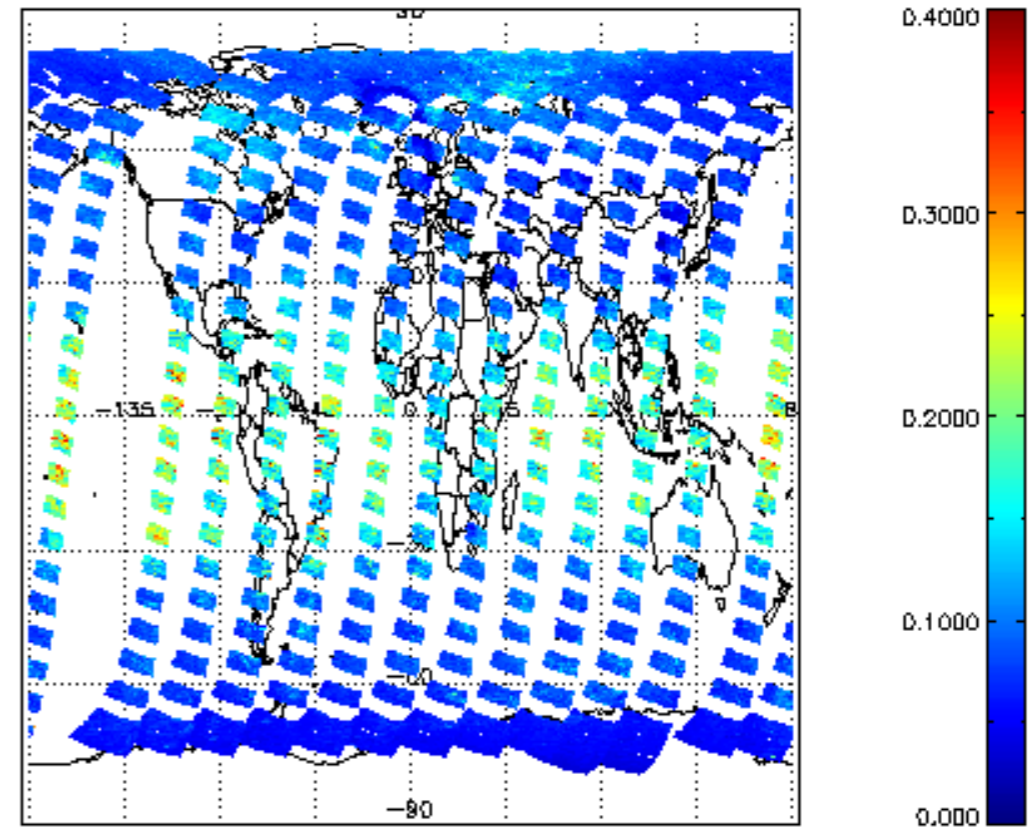
SCIOL2P_NADUV003_amf_cl for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



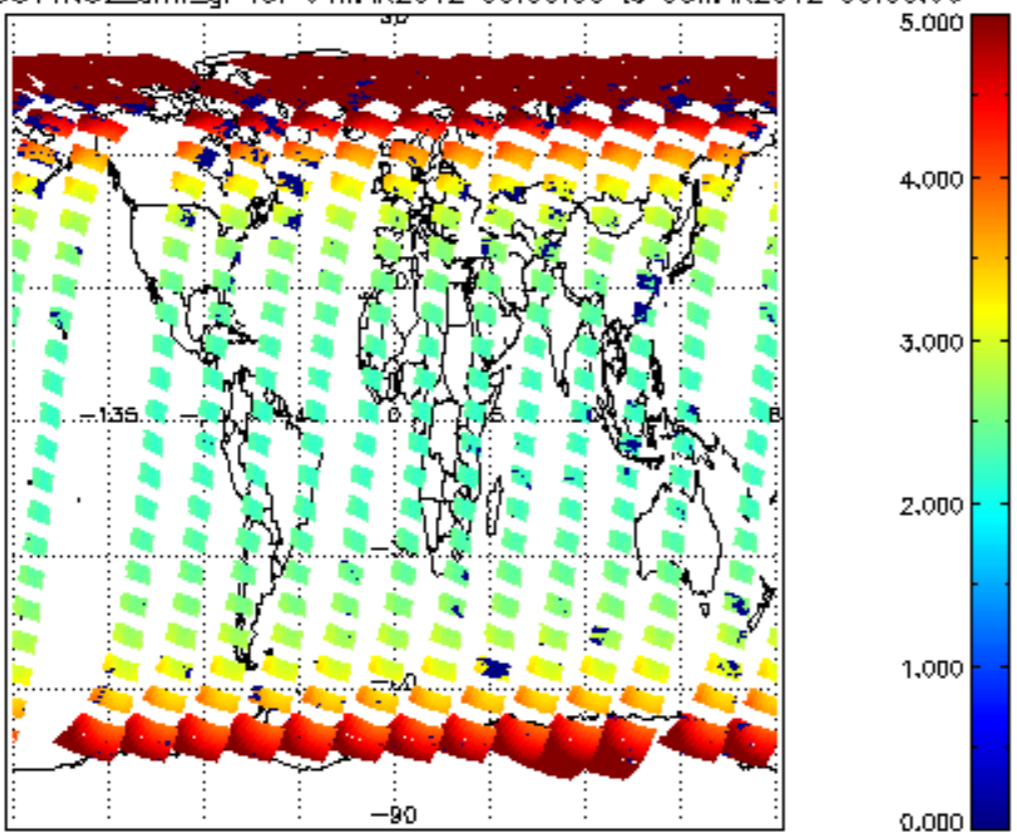
SCIOL2P_NADUV1NO2_vcd for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



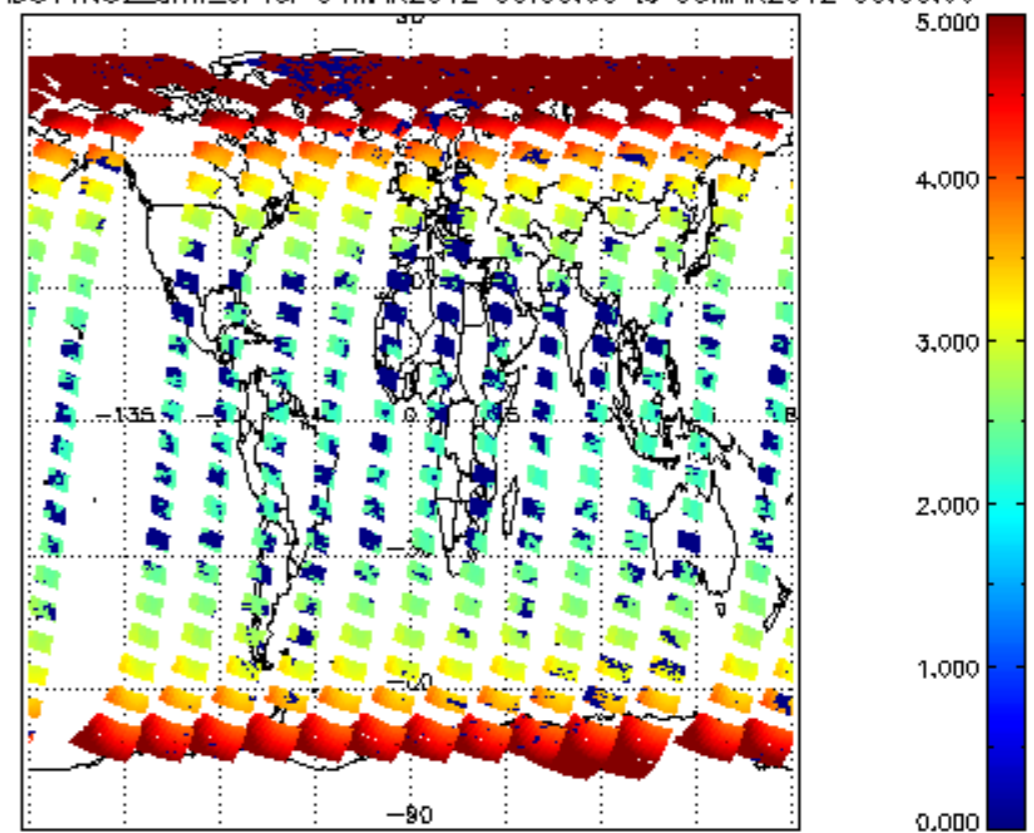
SCIOL2P_NADUV1NO2_vcd_err for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



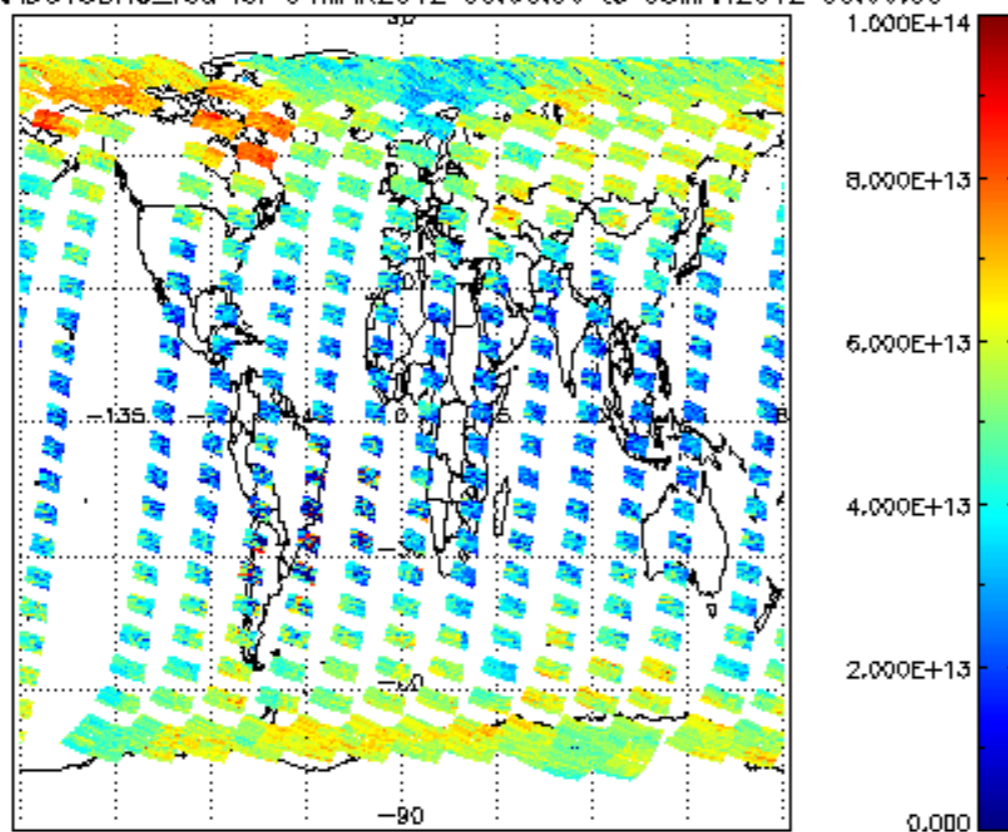
SCIOL2P_NADUV1NO2_amf_gr for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



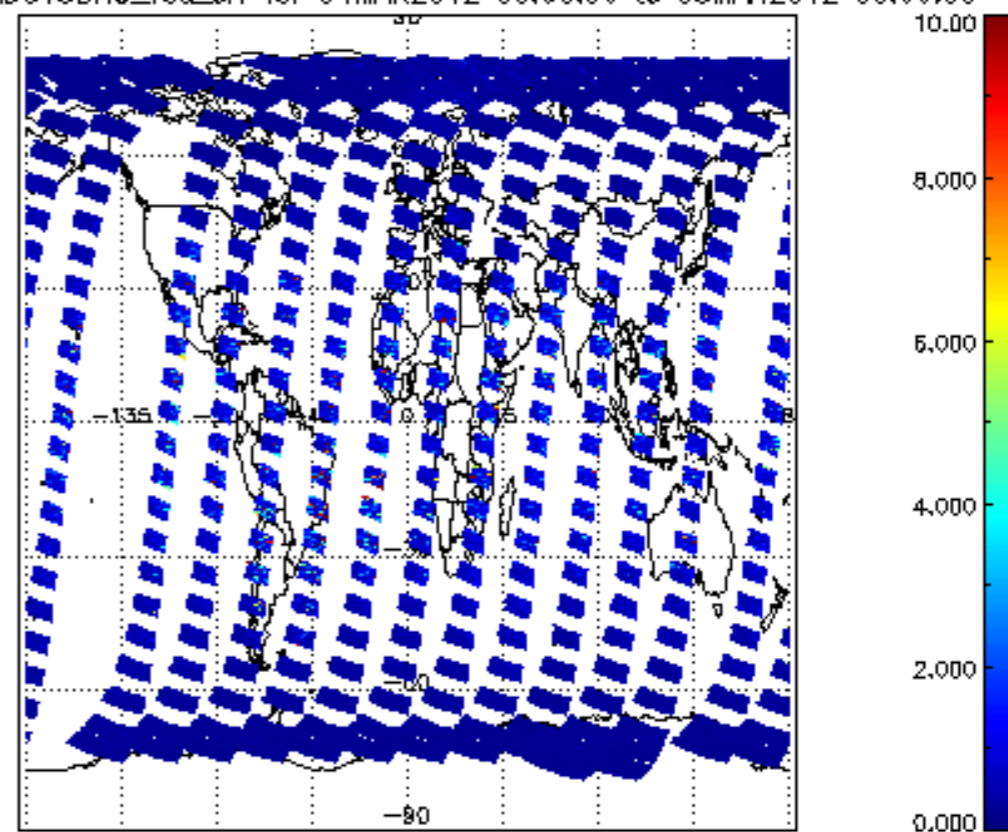
SCIOL2P_NADUV1NO2_amf_cl for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



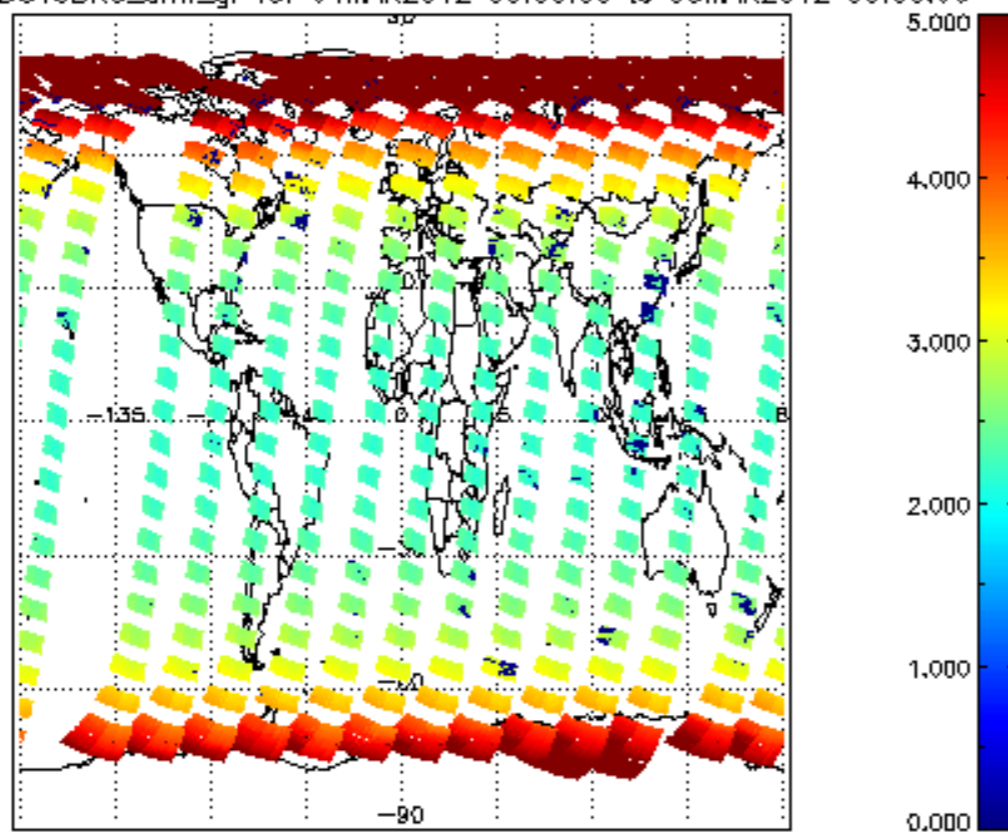
SCIOL2P_NADUV3BRO_vcd for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



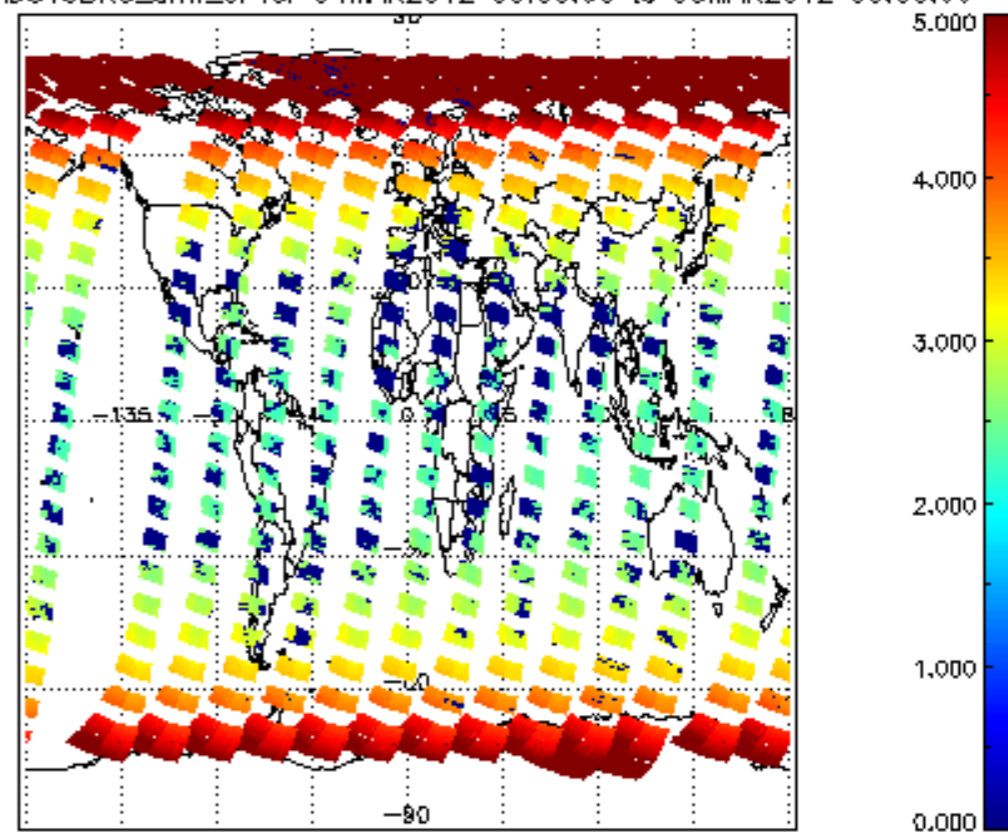
SCIOL2P_NADUV3BRO_vcd_err for 04MAR2012 00:00:00 to 05MAR2012 00:00:00

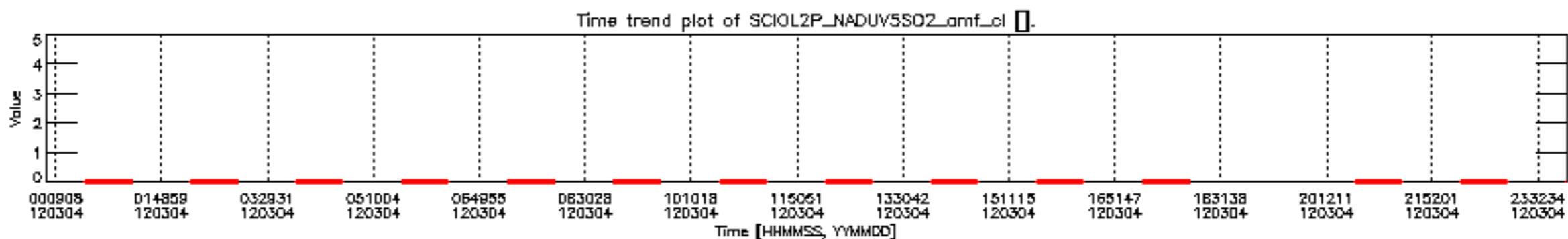
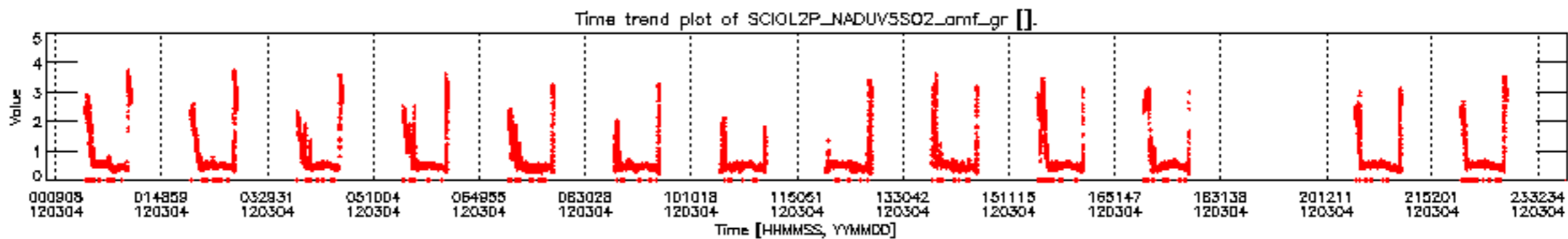
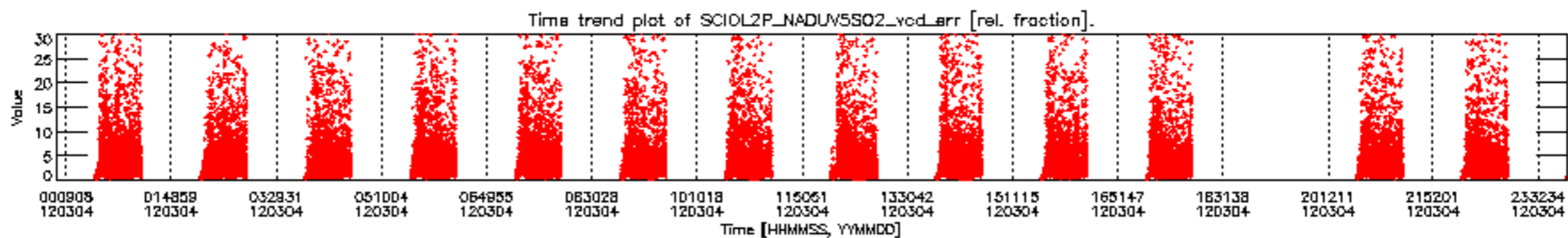
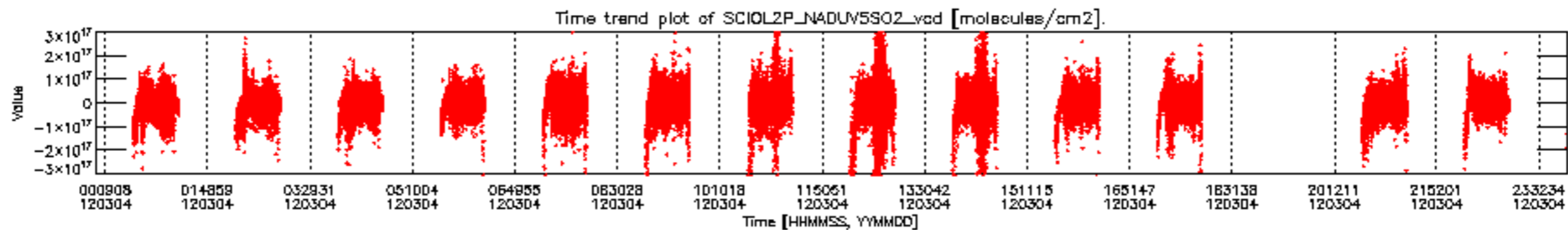


SCIOL2P_NADUV3BRO_arnf_gr for 04MAR2012 00:00:00 to 05MAR2012 00:00:00

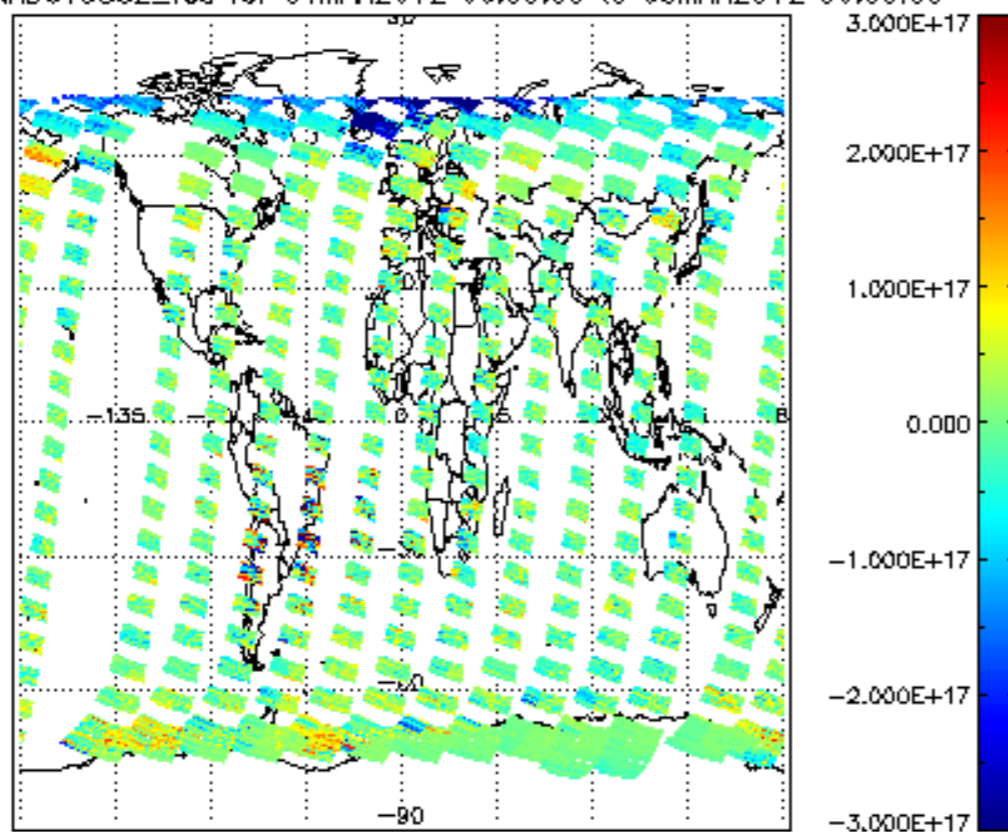


SCIOL2P_NADUV3BRO_arnf_cl for 04MAR2012 00:00:00 to 05MAR2012 00:00:00

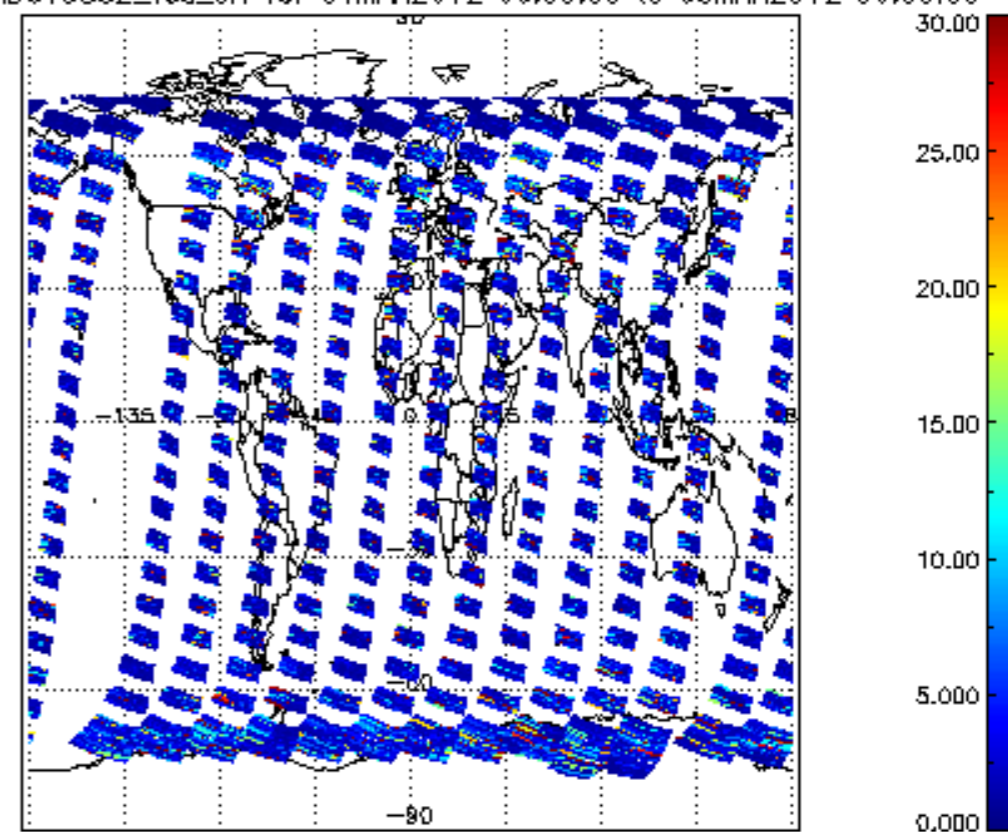




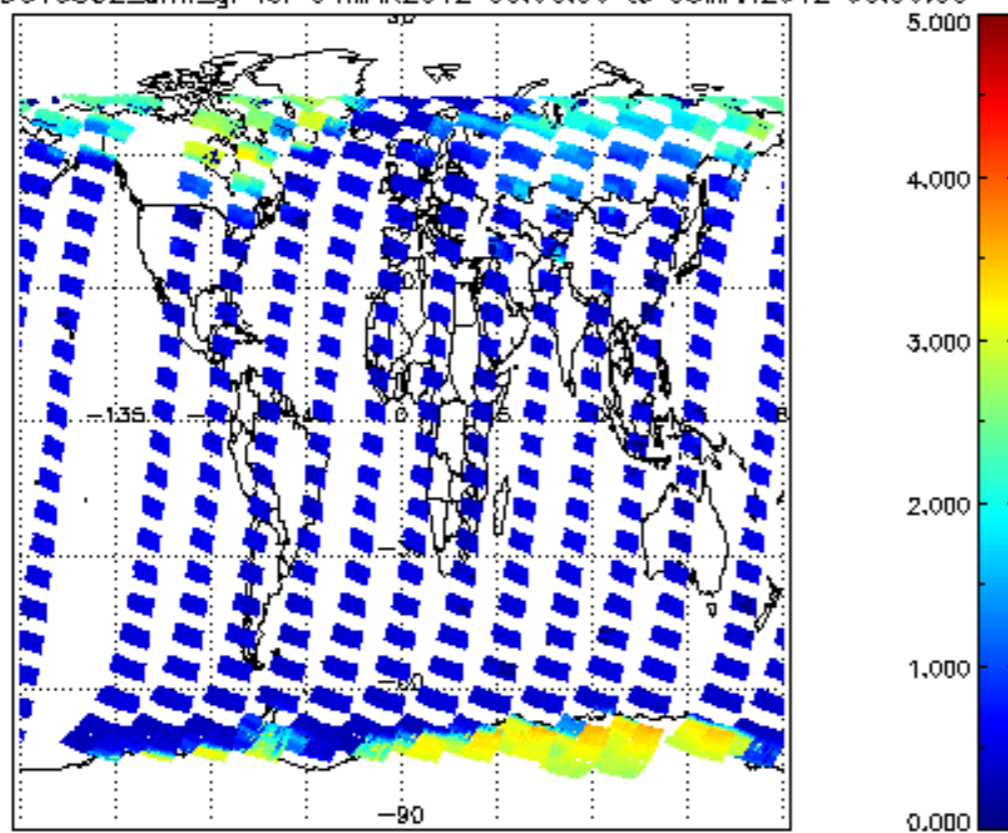
SCIOL2P_NADUV5S02_vcd for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



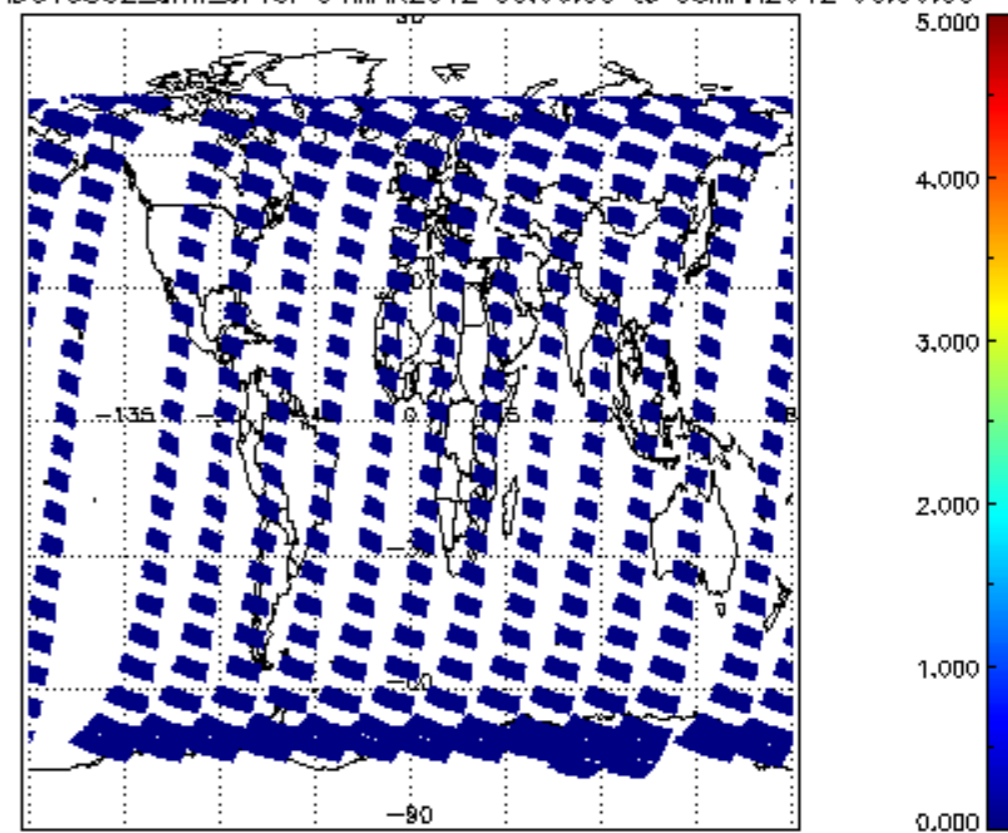
SCIOL2P_NADUV5S02_vcd_err for 04MAR2012 00:00:00 to 05MAR2012 00:00:00

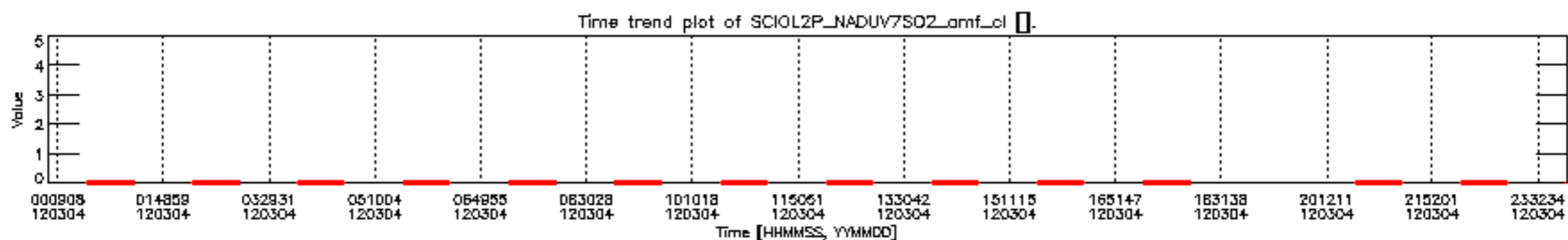
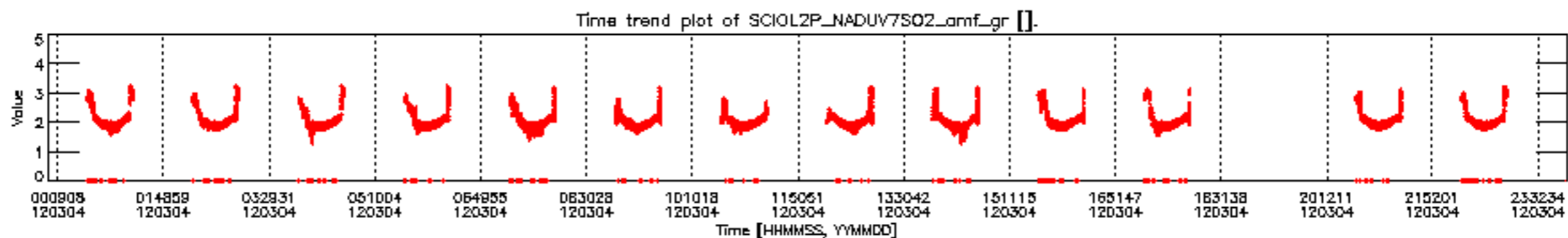
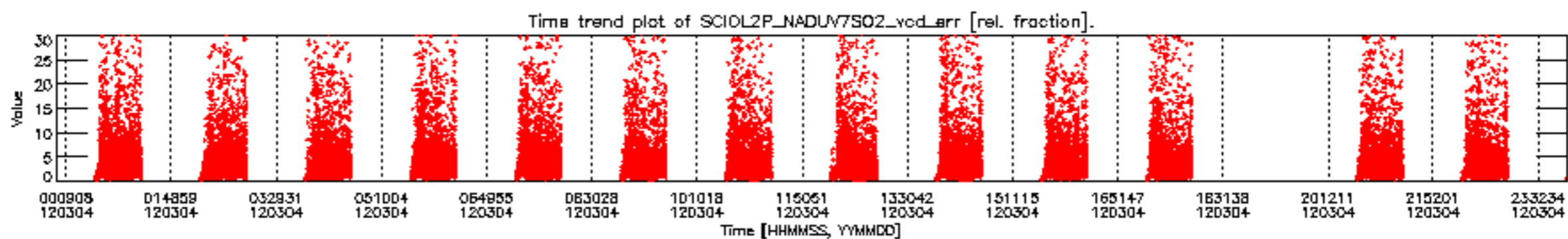
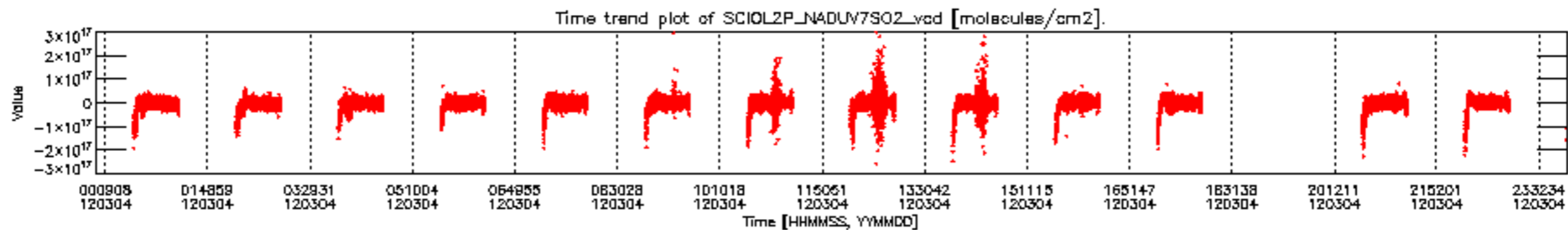


SCIOL2P_NADUV5S02_amf_gr for 04MAR2012 00:00:00 to 05MAR2012 00:00:00

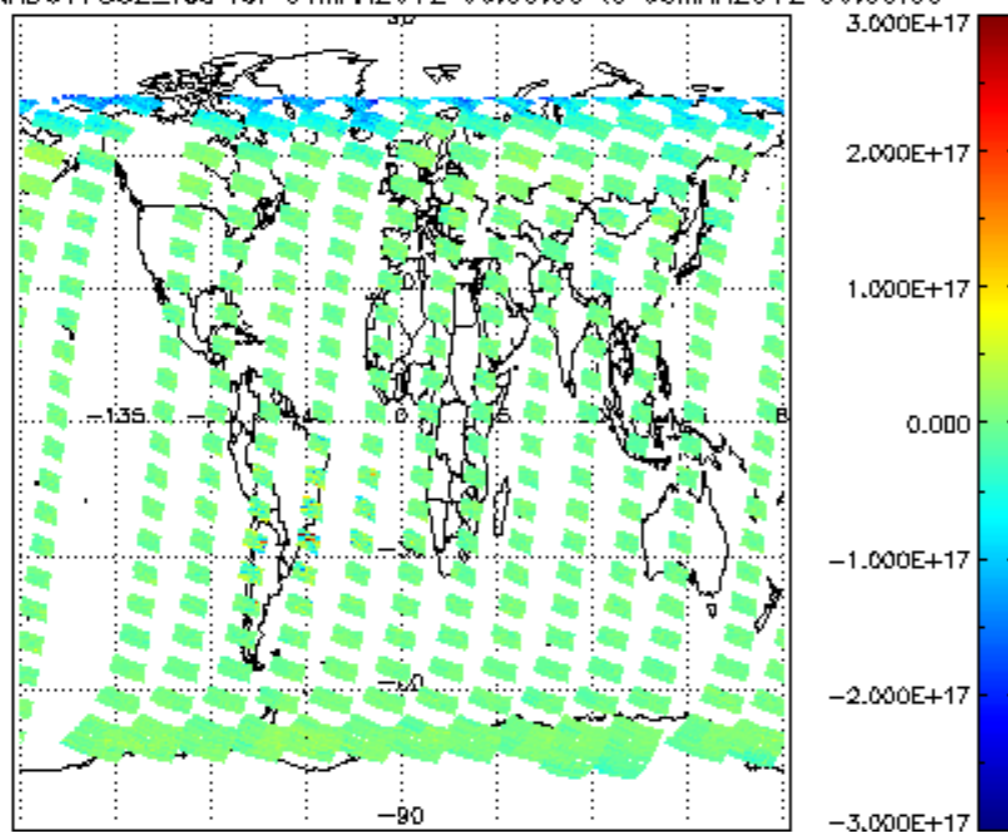


SCIOL2P_NADUV5S02_amf_cl for 04MAR2012 00:00:00 to 05MAR2012 00:00:00

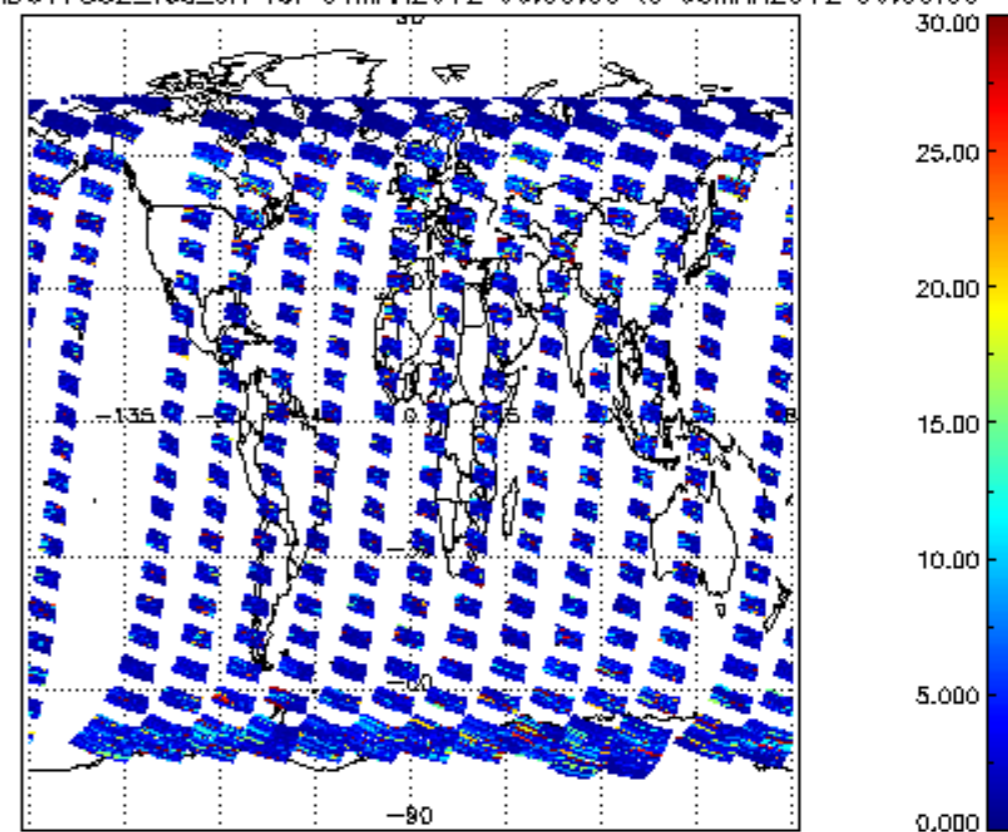




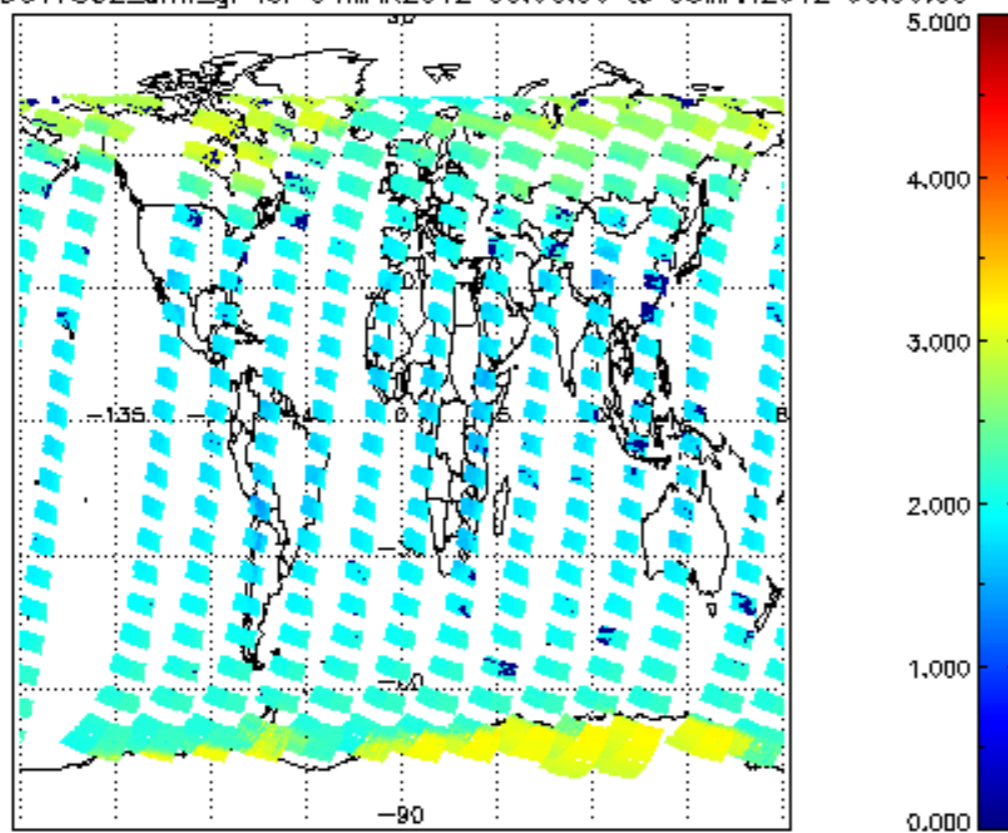
SCIOL2P_NADUV7S02_vcd for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



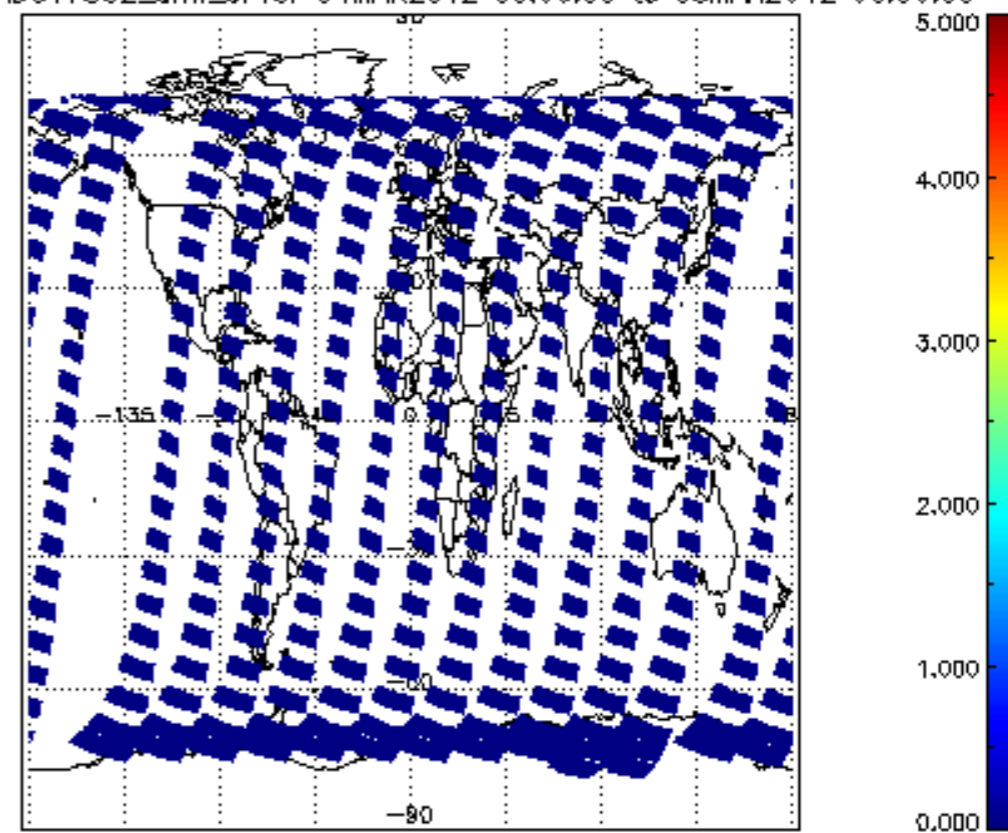
SCIOL2P_NADUV7S02_vcd_err for 04MAR2012 00:00:00 to 05MAR2012 00:00:00

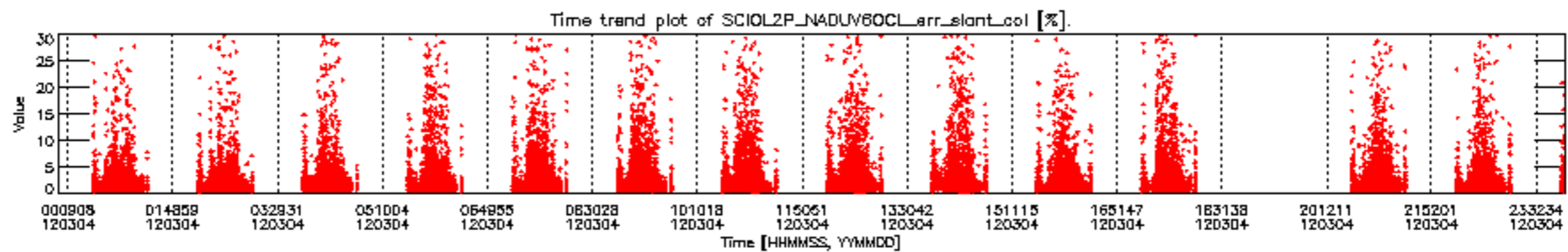
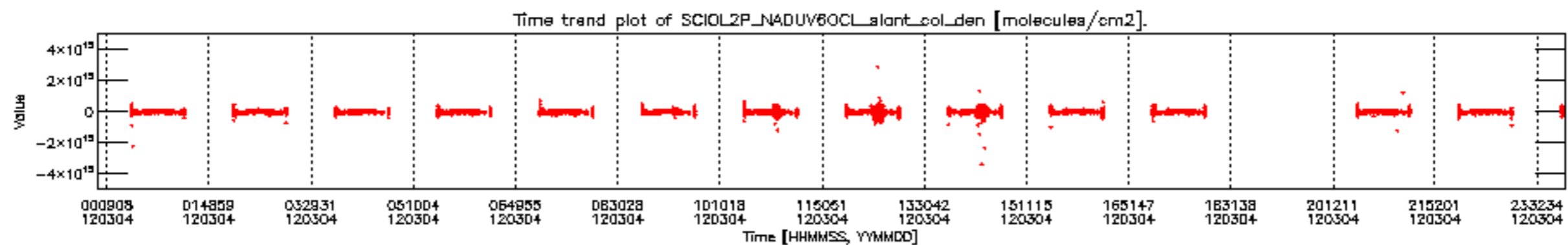


SCIOL2P_NADUV7S02_amf_gr for 04MAR2012 00:00:00 to 05MAR2012 00:00:00

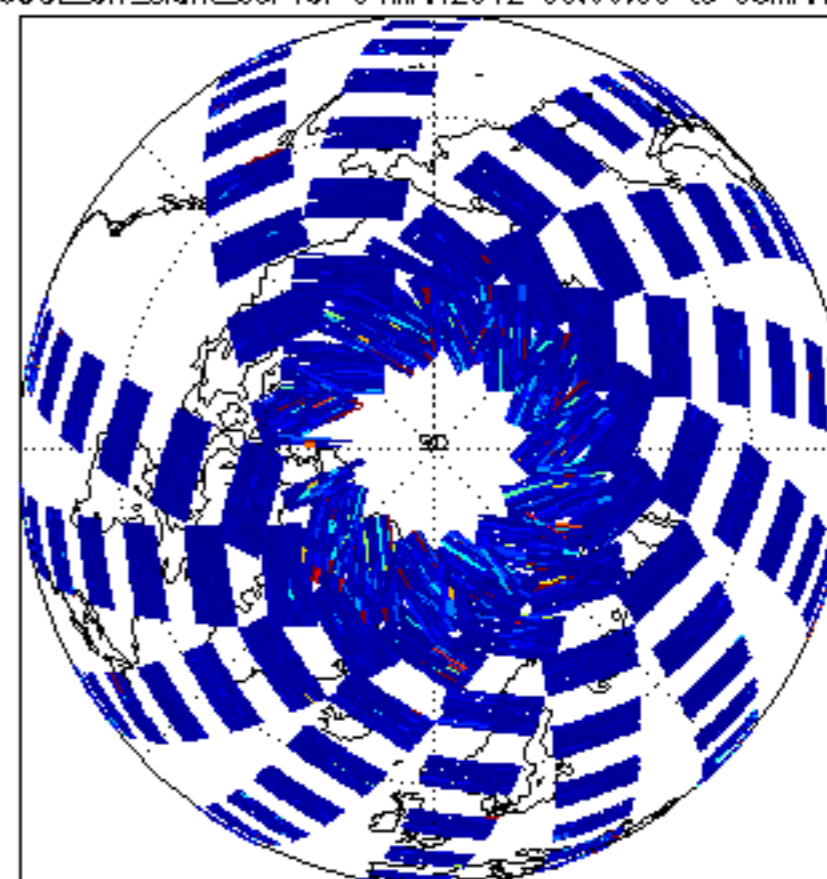
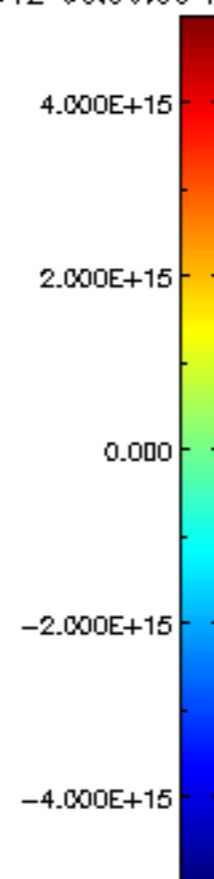
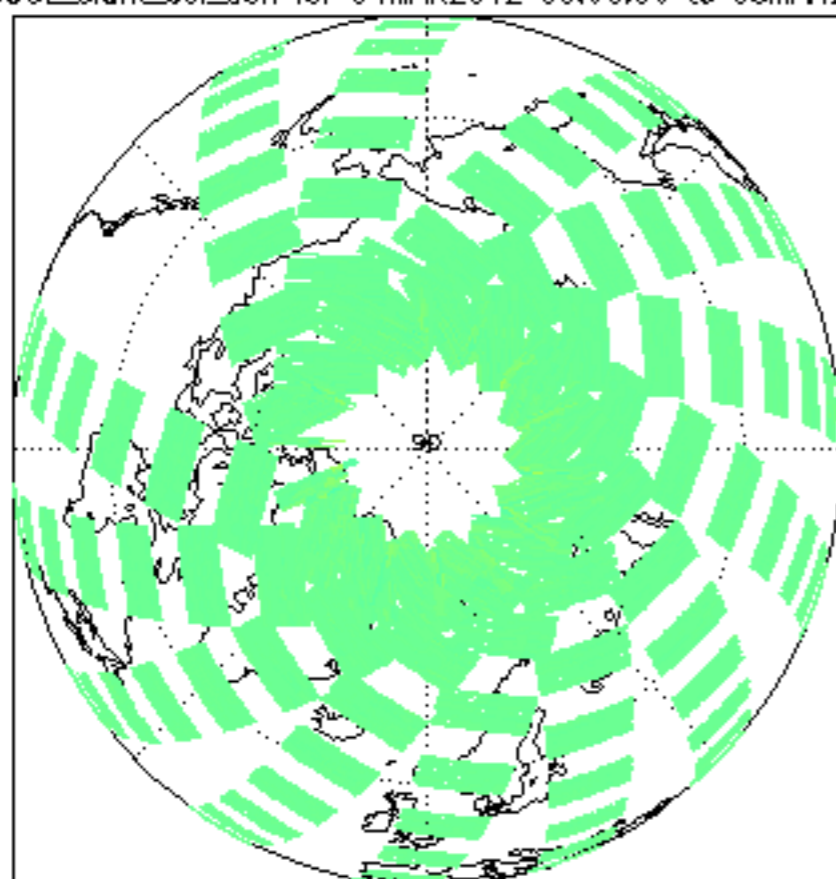


SCIOL2P_NADUV7S02_amf_cl for 04MAR2012 00:00:00 to 05MAR2012 00:00:00

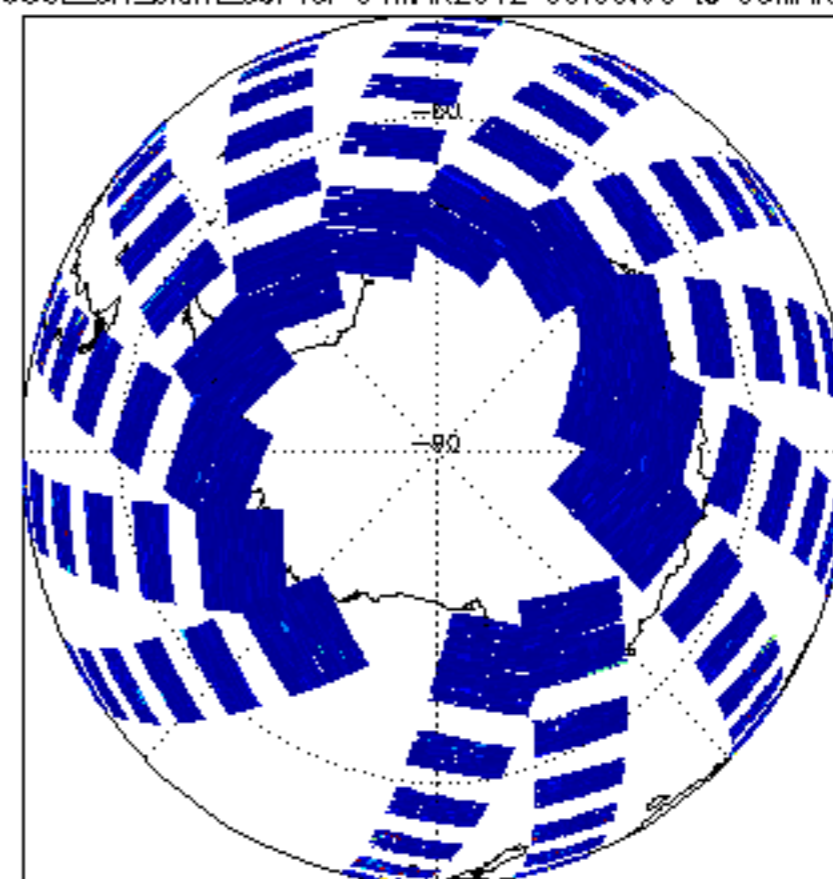
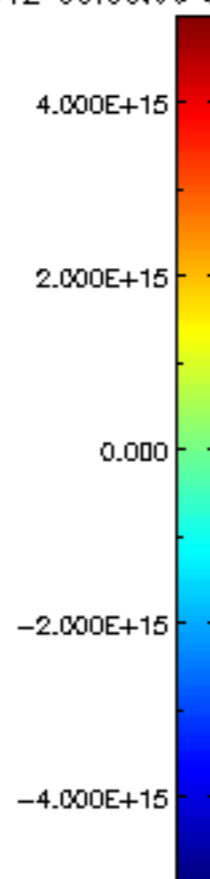
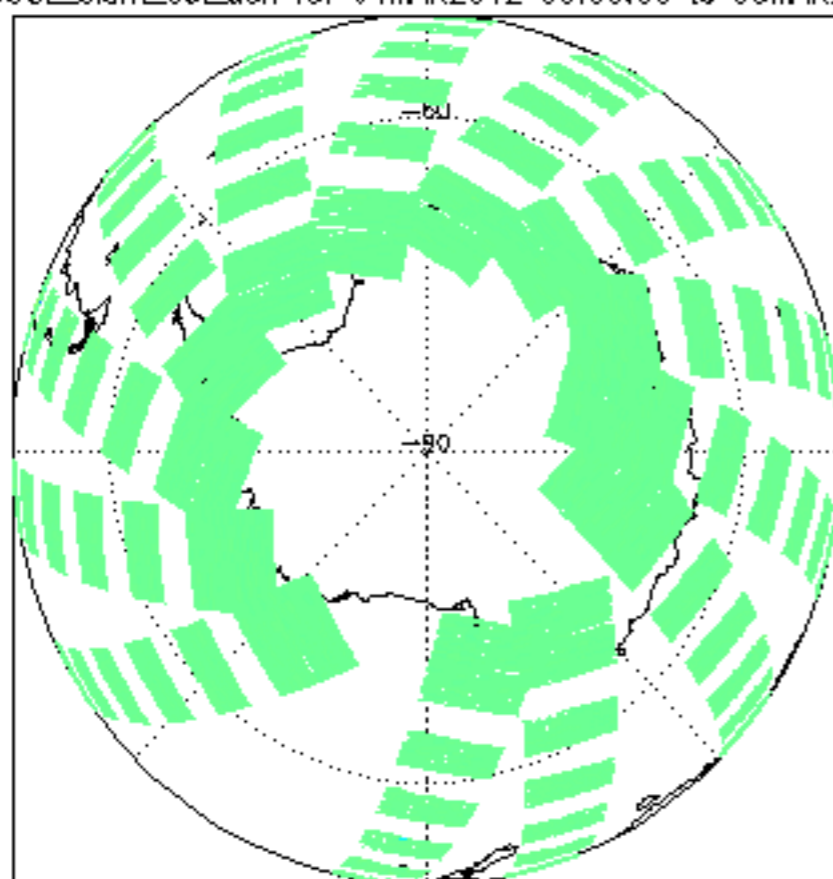




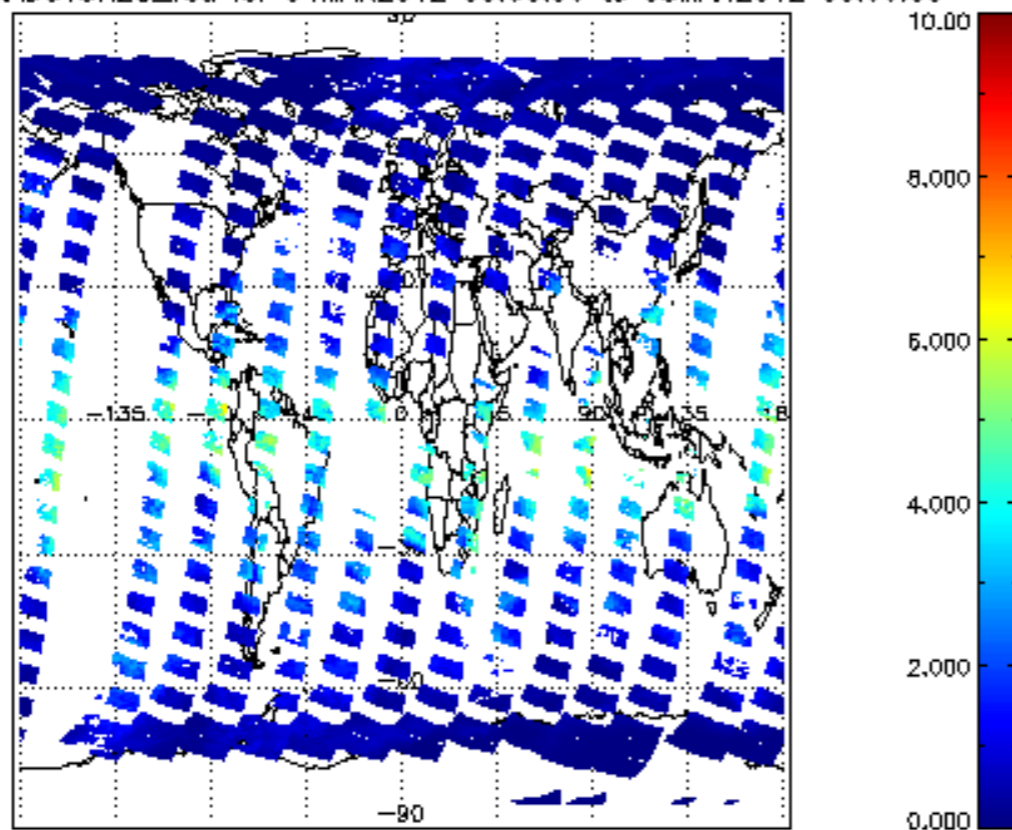
CIOL2P_NADUV6OCL_slant_col_den for 04MAR2012 00:00:00 to 05MAR2012 00:00:00 np; CIOL2P_NADUV6OCL_err_slant_col for 04MAR2012 00:00:00 to 05MAR2012 00:00:00 np



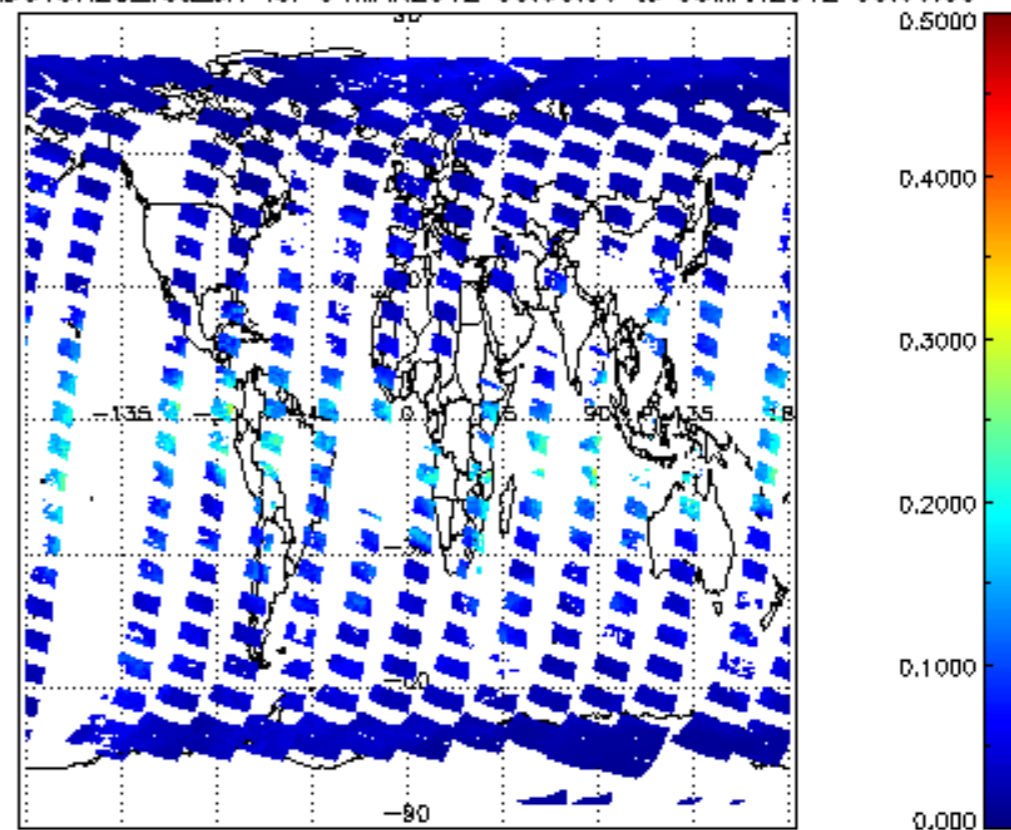
CIOL2P_NADUV6OCL_slant_col_den for 04MAR2012 00:00:00 to 05MAR2012 00:00:00 sp; CIOL2P_NADUV6OCL_err_slant_col for 04MAR2012 00:00:00 to 05MAR2012 00:00:00 sp



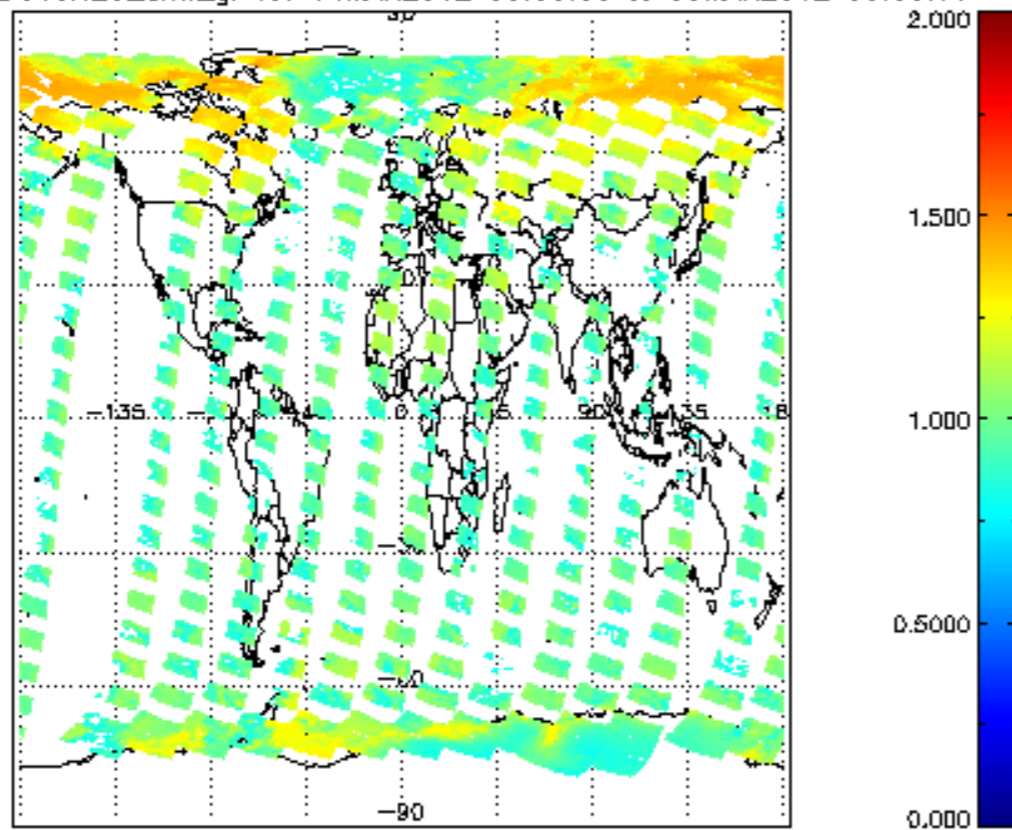
SCIOL2P_NADUV8H20_vcd for 04MAR2012 00:00:00 to 05MAR2012 00:00:00

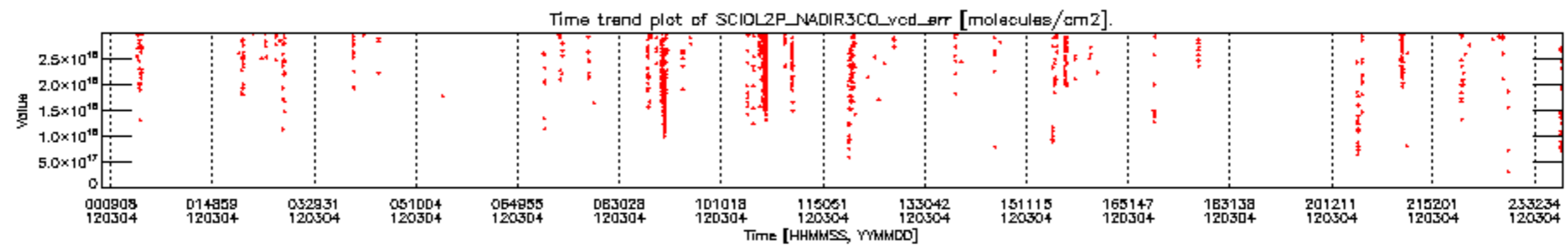
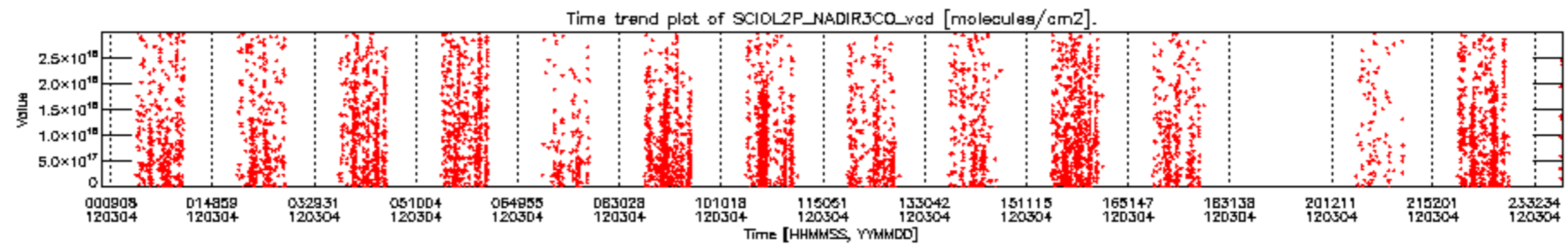


SCIOL2P_NADUV8H20_vcd_Lerr for 04MAR2012 00:00:00 to 05MAR2012 00:00:00

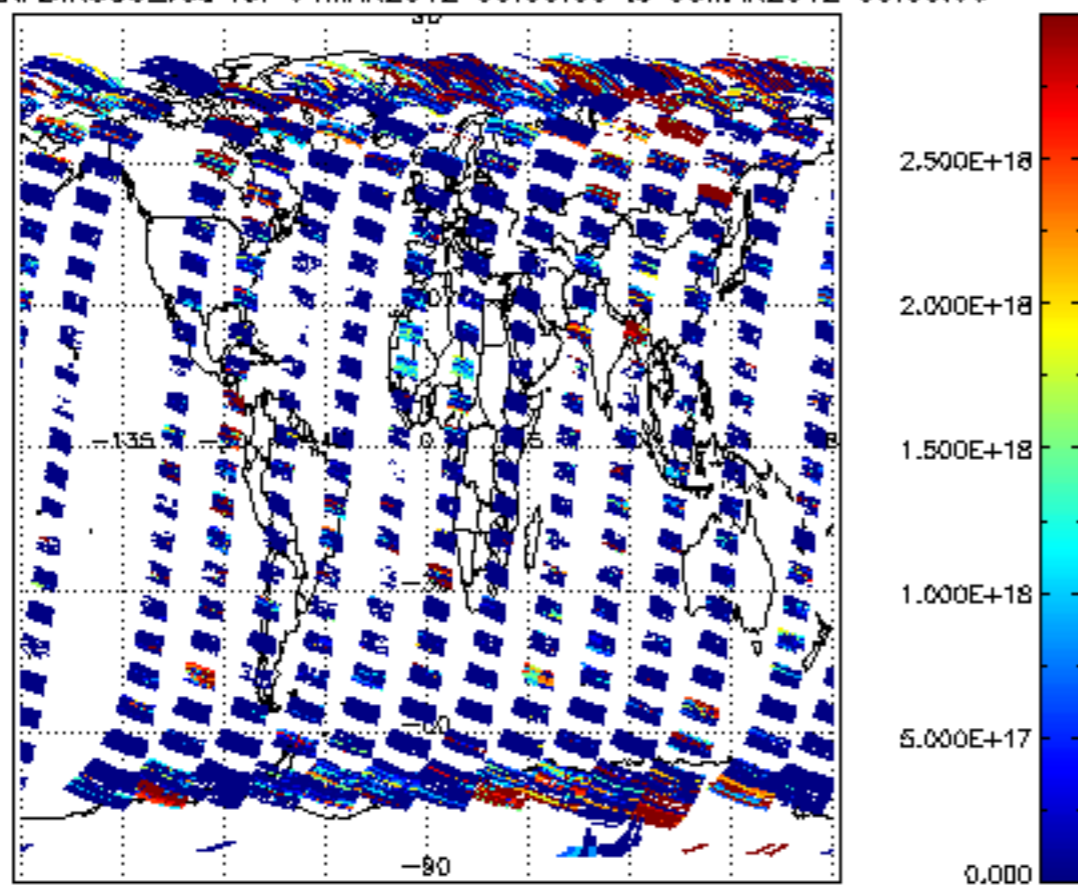


SCIOL2P_NADUV8H20_arnf_gr for 04MAR2012 00:00:00 to 05MAR2012 00:00:00

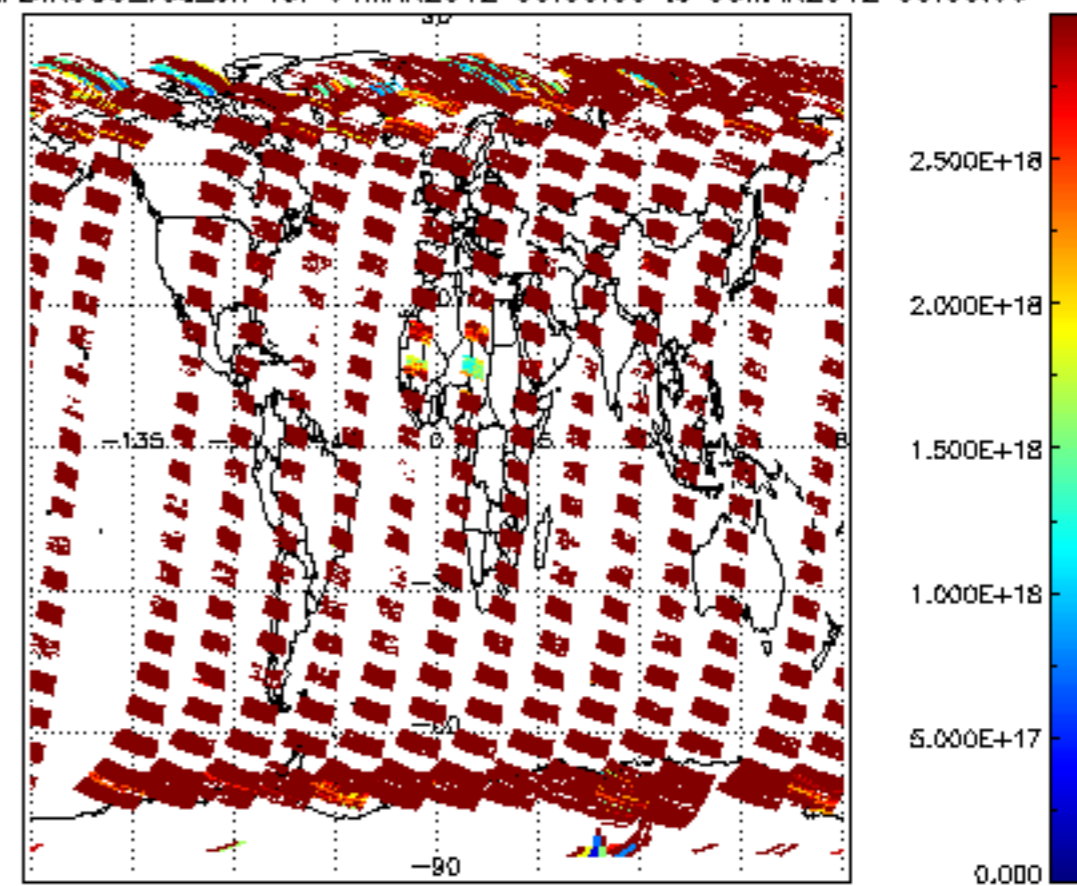




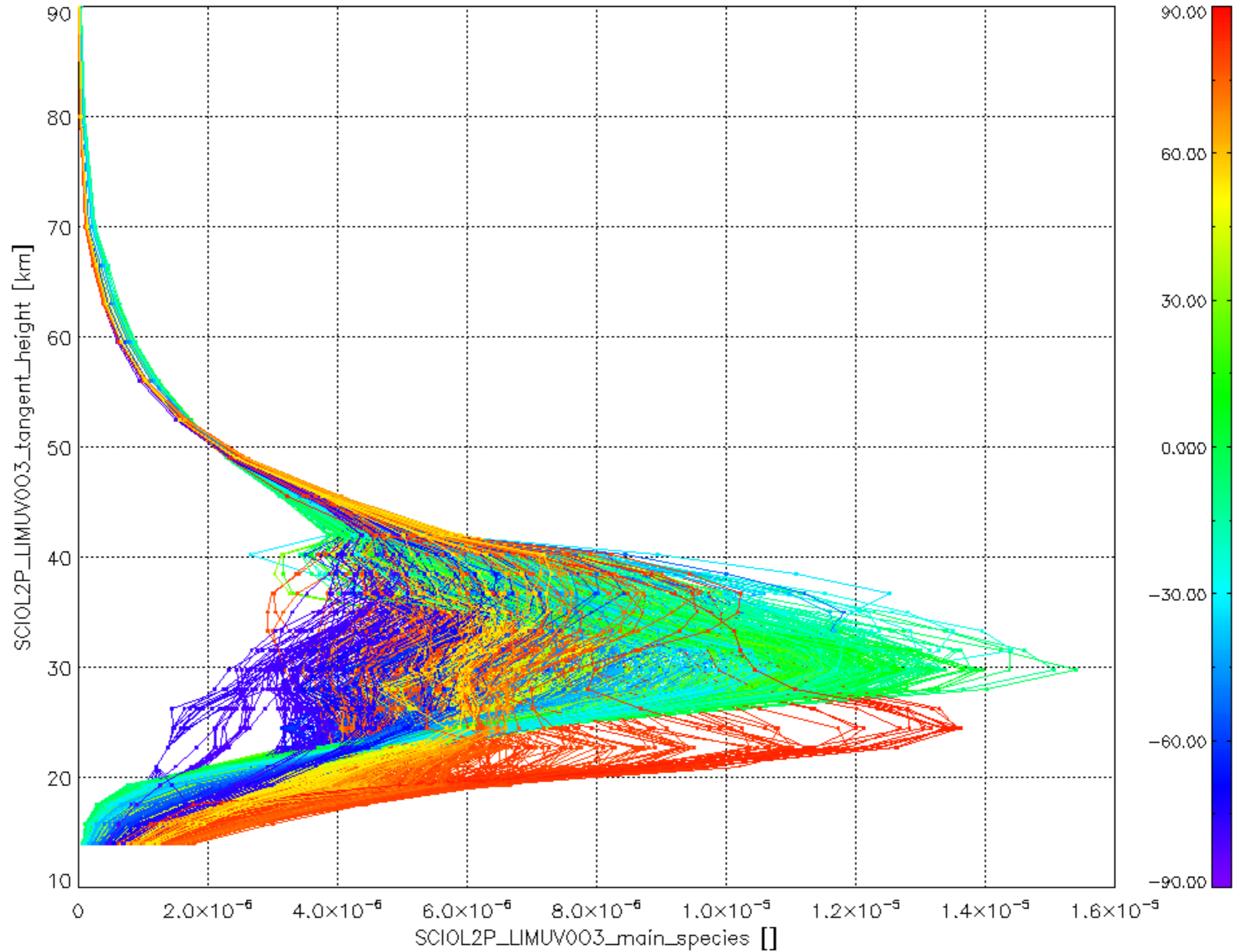
SCIOL2P_NADIR3CO_vcd for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



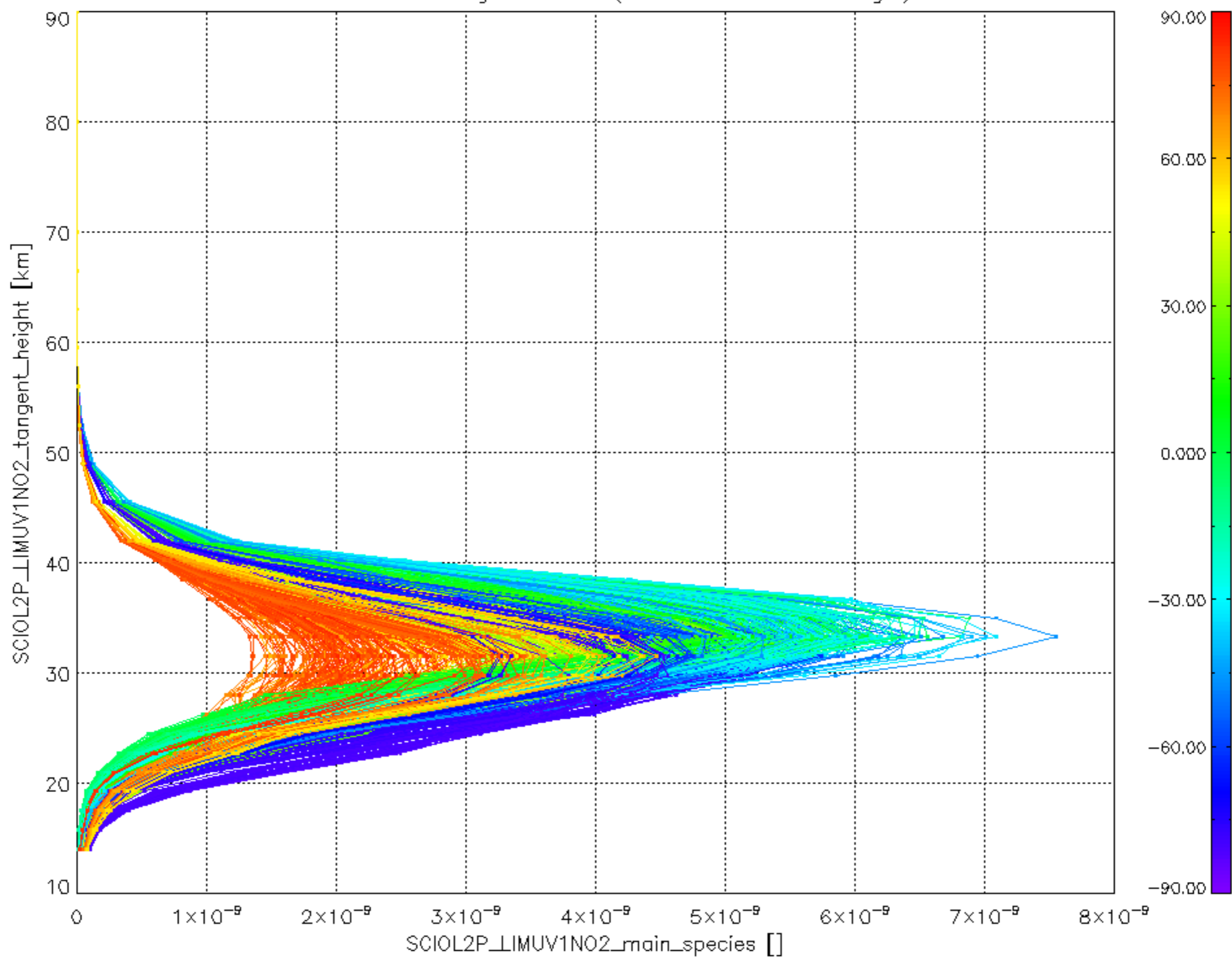
SCIOL2P_NADIR3CO_vcd_err for 04MAR2012 00:00:00 to 05MAR2012 00:00:00



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).

