

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	29MAR2012 03:25:16
Data source version	SCIA-OL/5.02-W
Processing scope for products	16MAR2012 00:00:00 to 17MAR2012 00:00:00
Start time of first product within scope	15MAR2012 23:51:10
Stop time of last product within scope	17MAR2012 00:07:07
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__2PWDPA20120315_235110_000031453112_00361_52530_4010.N1	15MAR2012 23:51:10	16MAR2012 00:43:35	0	GOOD
1	SCI_OL__2PWDPA20120316_012536_000035303112_00362_52531_4008.N1	16MAR2012 01:25:36	16MAR2012 02:24:26	0	GOOD
2	SCI_OL__2PWDPA20120316_030549_000035163112_00363_52532_4011.N1	16MAR2012 03:05:49	16MAR2012 04:04:25	0	GOOD
3	SCI_OL__2PWDPA20120316_044603_000035303112_00364_52533_4012.N1	16MAR2012 04:46:03	16MAR2012 05:44:53	0	GOOD
4	SCI_OL__2PWDPA20120316_062616_000035163112_00365_52534_4013.N1	16MAR2012 06:26:16	16MAR2012 07:24:52	0	GOOD

5	SCI_OL__2PWDP	A20120316_080630_000035303112_00366_52535_4014.N1	16MAR2012 08:06:30	16MAR2012 09:05:20	0	GOOD
6	SCI_OL__2PWDP	A20120316_094643_000035163112_00367_52536_4015.N1	16MAR2012 09:46:43	16MAR2012 10:45:19	0	GOOD
7	SCI_OL__2PWDP	A20120316_112657_000035303112_00368_52537_4016.N1	16MAR2012 11:26:57	16MAR2012 12:25:47	0	GOOD
8	SCI_OL__2PWDP	A20120316_130710_000035163112_00369_52538_4017.N1	16MAR2012 13:07:10	16MAR2012 14:05:46	0	GOOD
9	SCI_OL__2PWDP	A20120316_144724_000035303112_00370_52539_4018.N1	16MAR2012 14:47:24	16MAR2012 15:46:14	0	GOOD
10	SCI_OL__2PWDP	A20120316_162737_000035163112_00371_52540_4019.N1	16MAR2012 16:27:37	16MAR2012 17:26:13	0	GOOD
11	SCI_OL__2PWDP	A20120316_180851_000034683112_00372_52541_4020.N1	16MAR2012 18:08:51	16MAR2012 19:06:40	0	GOOD
12	SCI_OL__2PWDP	A20120316_194821_000035163112_00373_52542_4021.N1	16MAR2012 19:48:21	16MAR2012 20:46:57	0	GOOD
13	SCI_OL__2PWDP	A20120316_212818_000035303112_00374_52543_4022.N1	16MAR2012 21:28:18	16MAR2012 22:27:08	0	GOOD
14	SCI_OL__2PWDP	A20120316_230831_000035163112_00375_52544_4023.N1	16MAR2012 23:08:31	17MAR2012 00:07:07	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: 156916

Total number of cloud data DSRs with good quality flag (=0): 156916 (100.0 %)

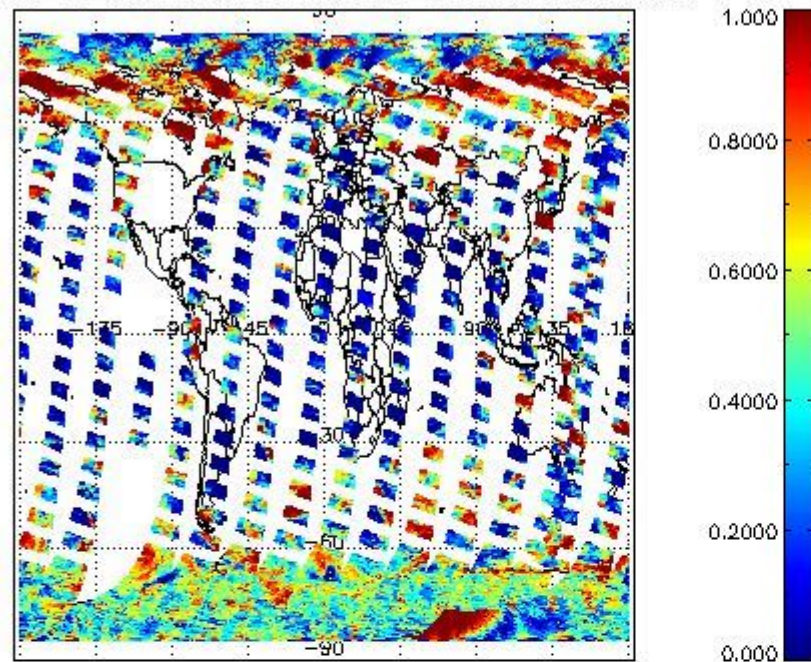
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	156916	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	156916	0.16746	0.12500	0.12500	0.25000	0.059200	s
CL_FRAC	156916	0.46752	0.44543	0.0000	1.0000	0.33388	
CL_FRAC_ERR	156916	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	156916	5.3587	4.0000	4.0000	8.0000	1.8944	
PMD_READ_CL[0]	156916	0.70132	0.0000	0.0000	8.0000	1.6062	-
PMD_READ_CL[1]	156916	1.1895	0.0000	0.0000	8.0000	2.4852	-
CL_TOP_HEIGHT	127945	3.5113	1.9940	0.0000	17.000	3.7125	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	127945	61.420	73.029	0.0000	101.00	40.928	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	156916	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	156916	11001011	11000100	11000000	11100000	3409.7	
AERO_ABSO_IND	156916	0.087527	0.0000	0.0000	7.1185	0.29370	
AERO_IND_DIAG	156916	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	156916	01010111	00000000	00000000	11000000	24483.	

Time and geolocation plots:

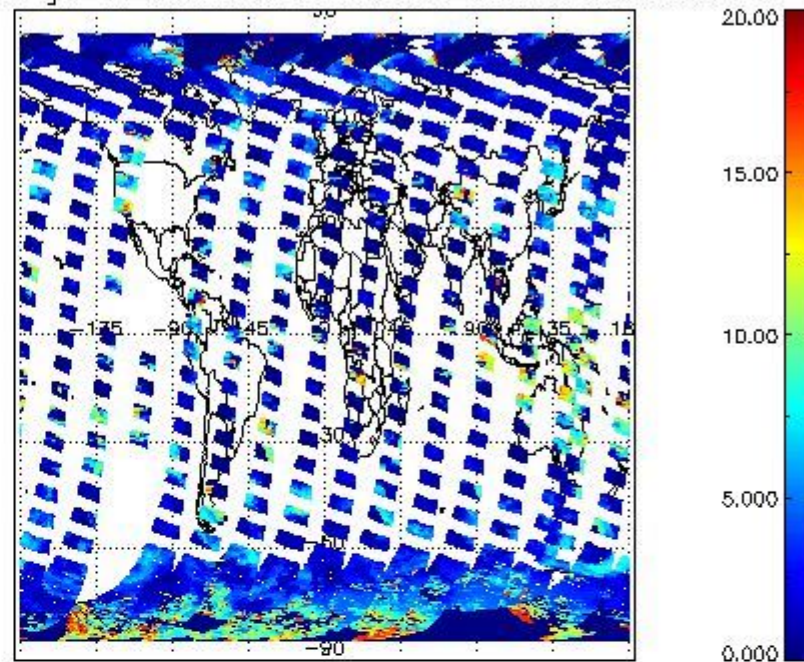
Plots are available for the following parameters:

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

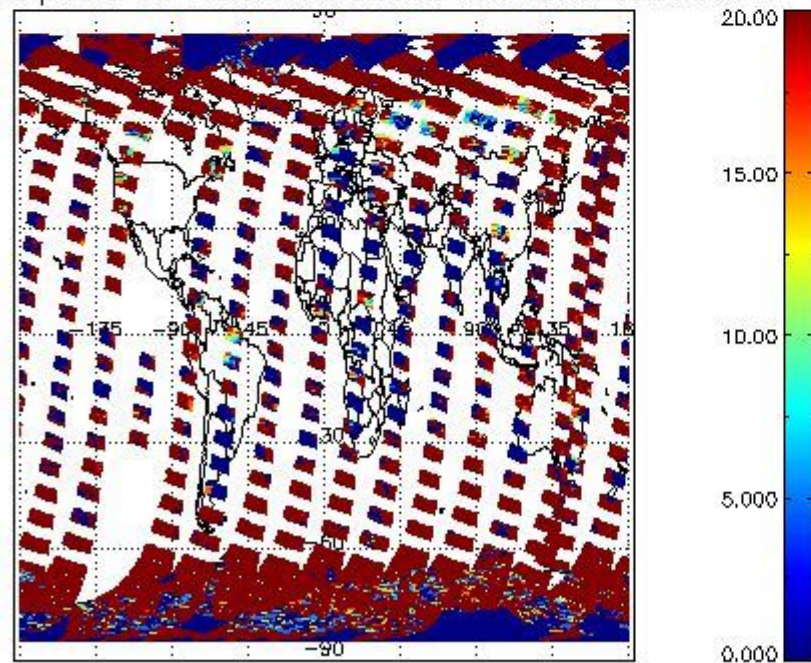
cL_frac for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



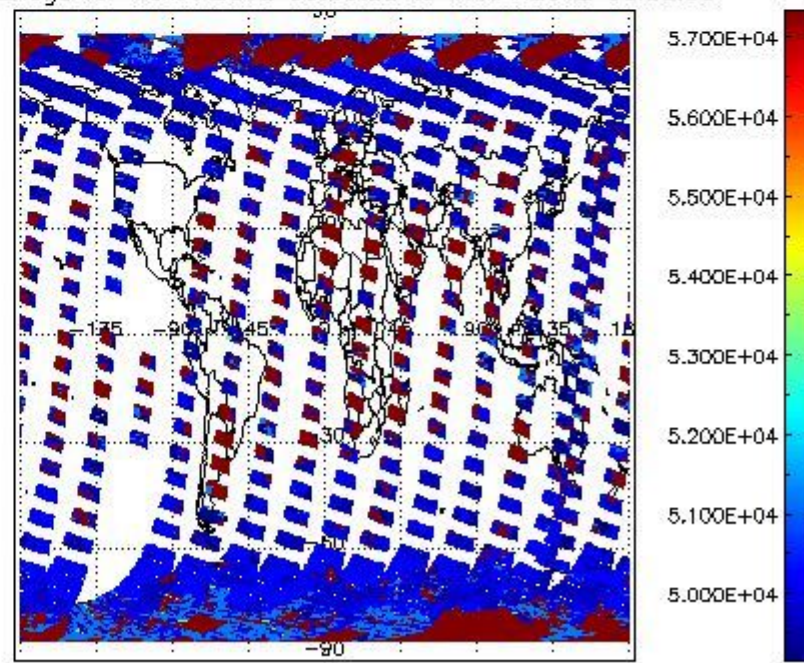
cL_top_height for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



cL_opt_depth for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



cloud_flags for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



2.2.2 Nadir

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

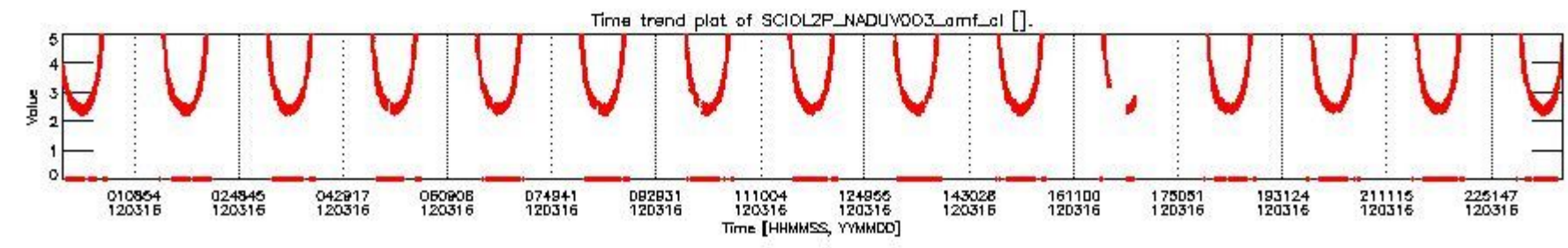
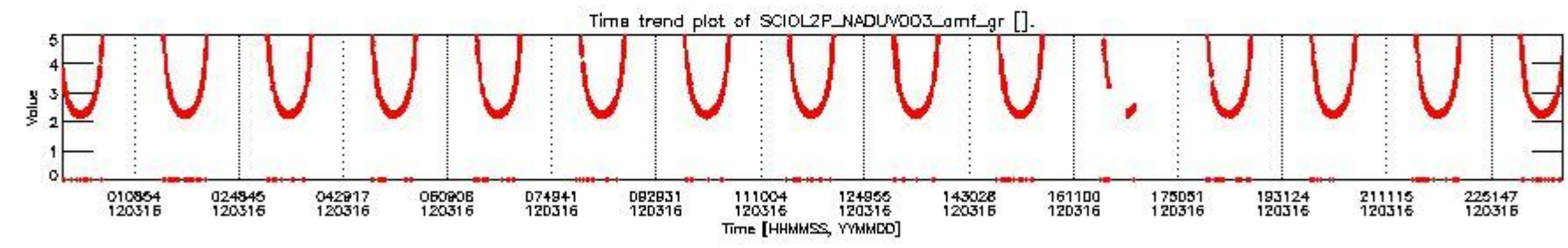
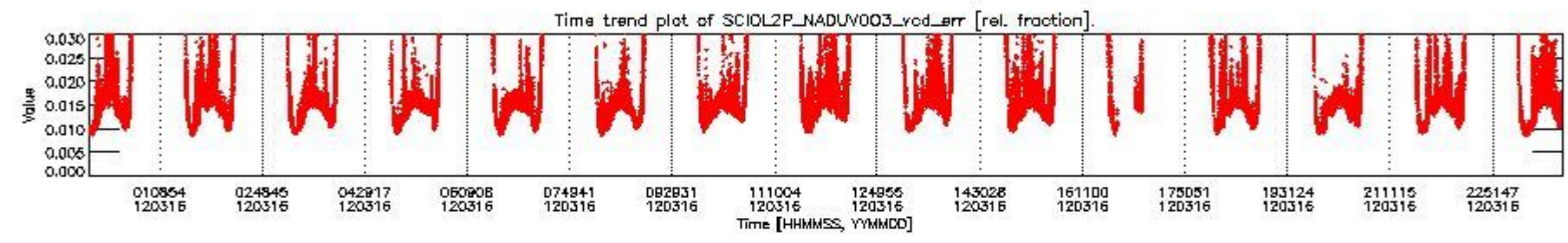
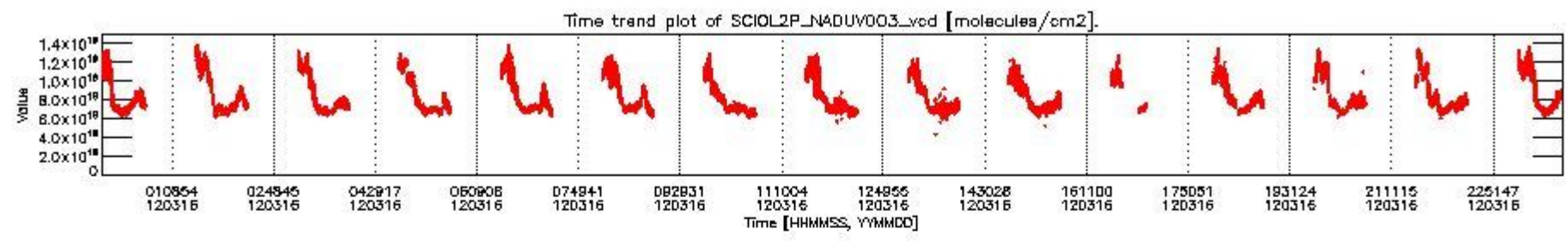
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

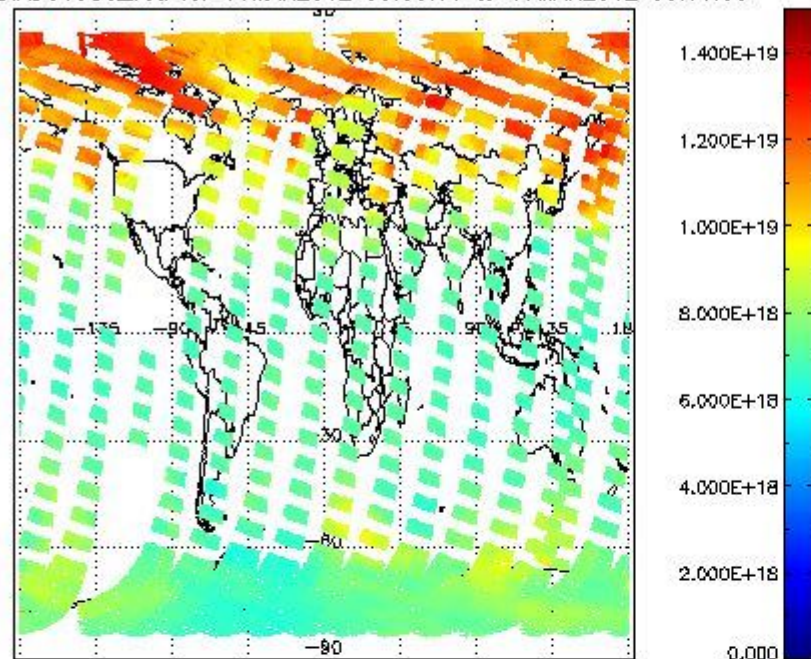
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

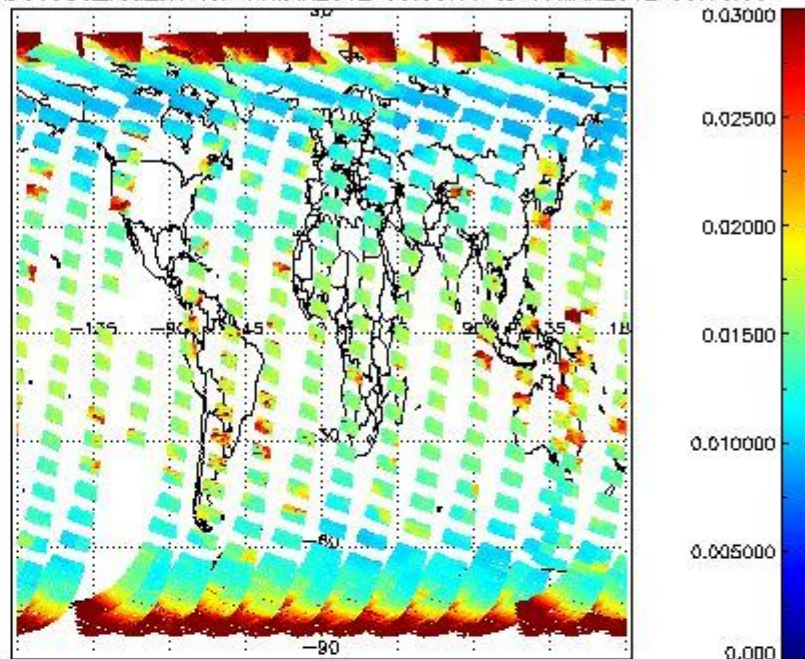
2.2.2.1 O3 (UV0)



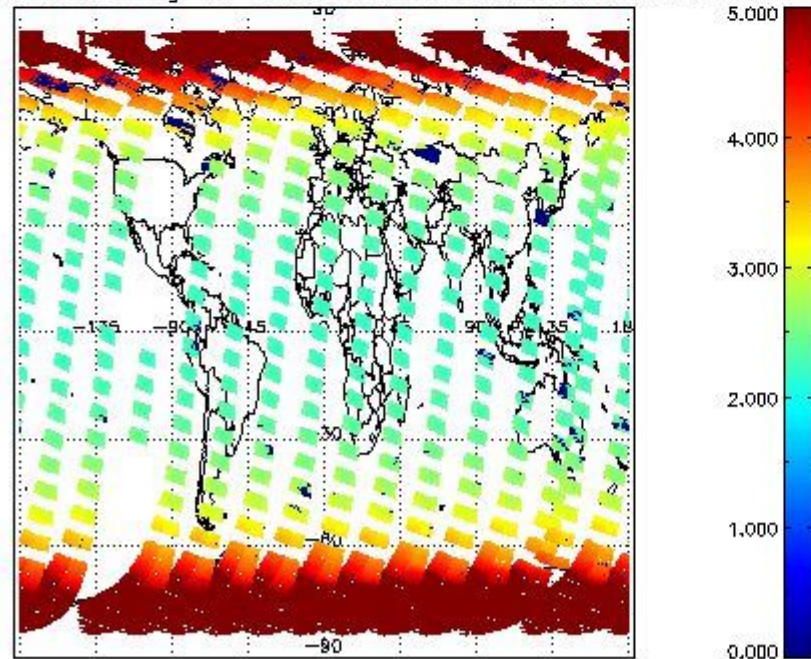
SCIOL2P_NADUV003_vcd for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



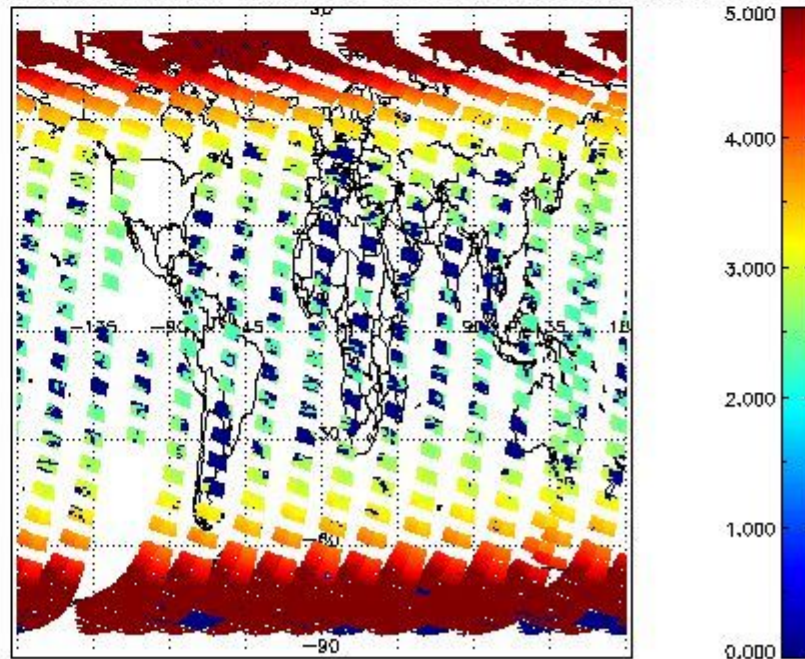
SCIOL2P_NADUV003_vcd_err for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



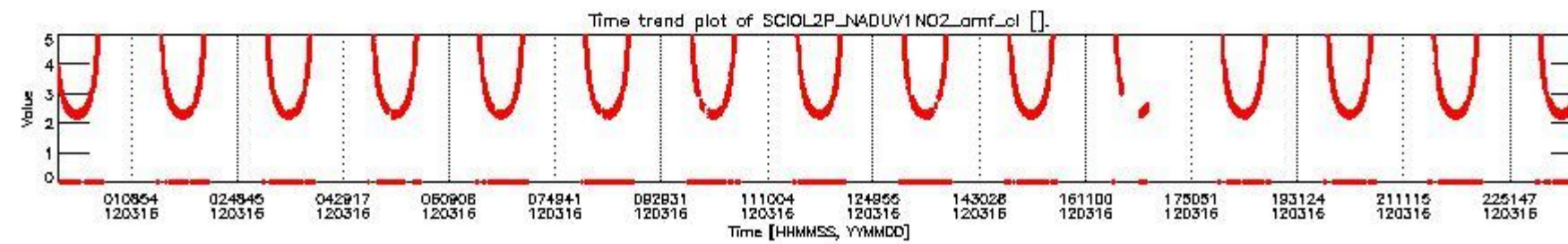
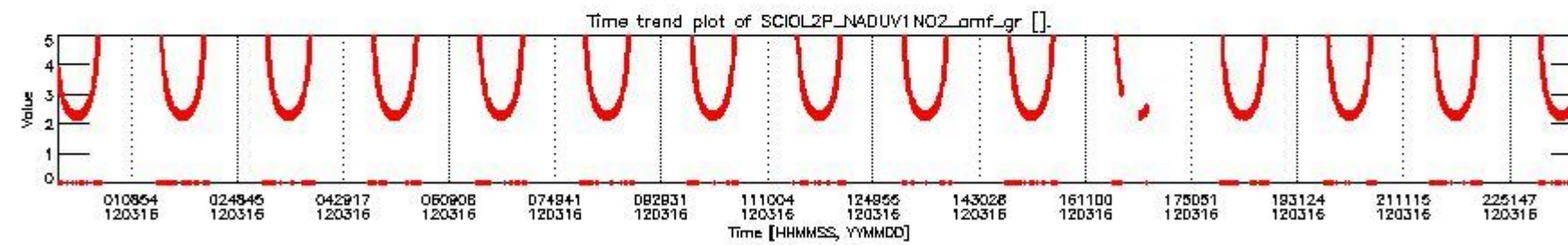
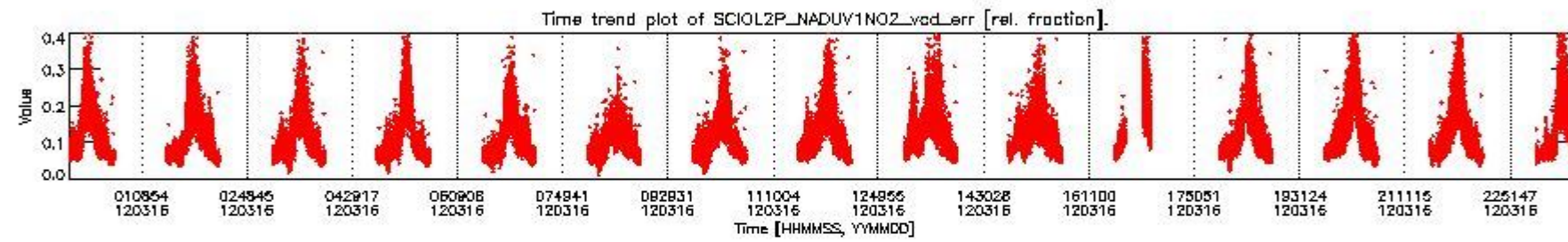
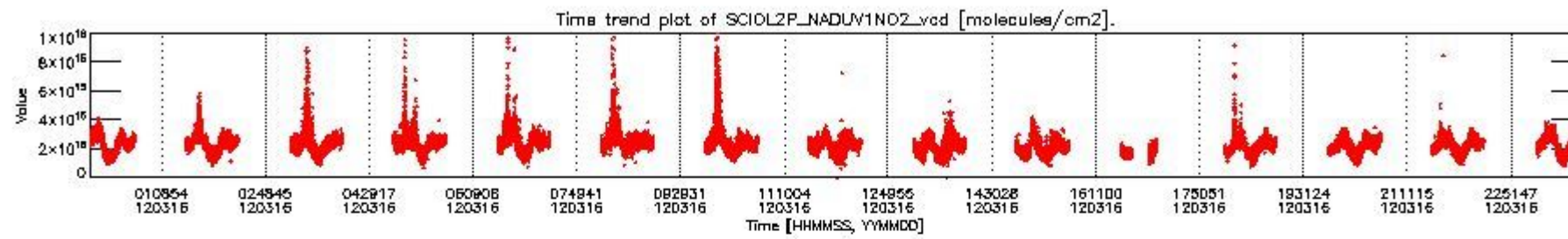
SCIOL2P_NADUV003_amf_gr for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



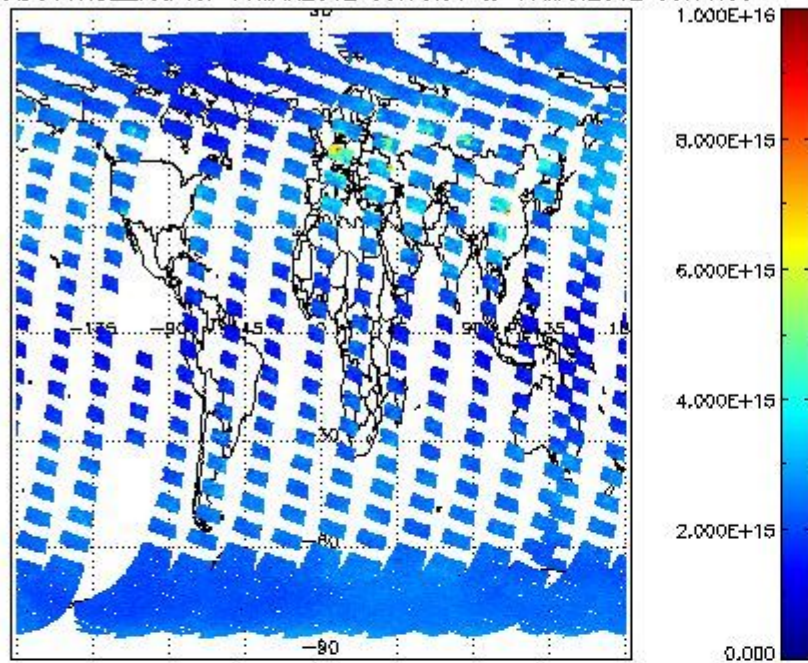
SCIOL2P_NADUV003_amf_cl for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



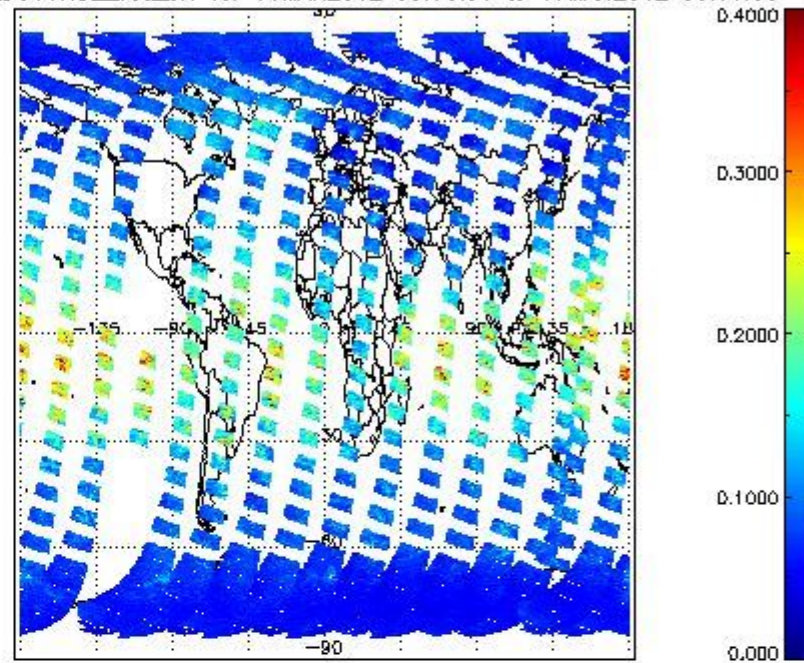
2.2.2.2 NO2 (UV1)



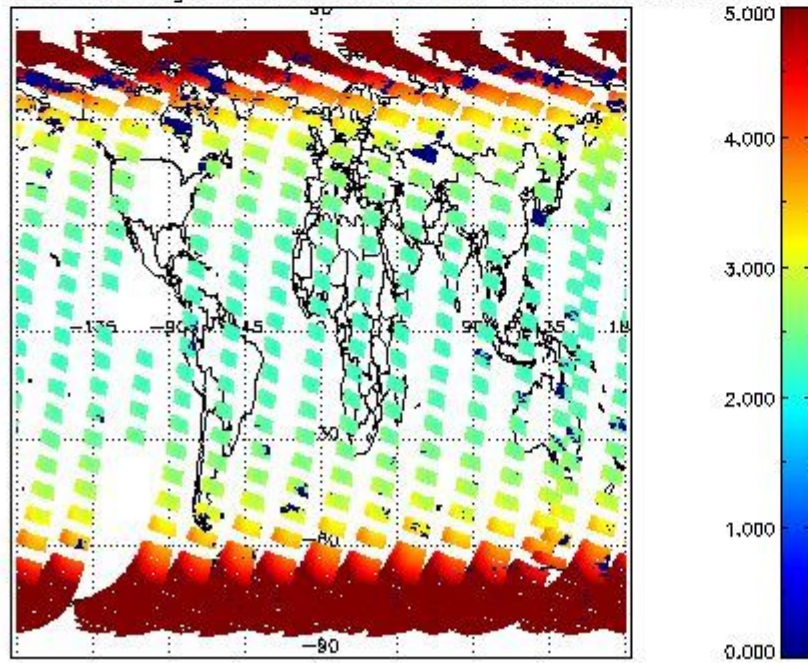
SCIOL2P_NADUV1NO2_vcd for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



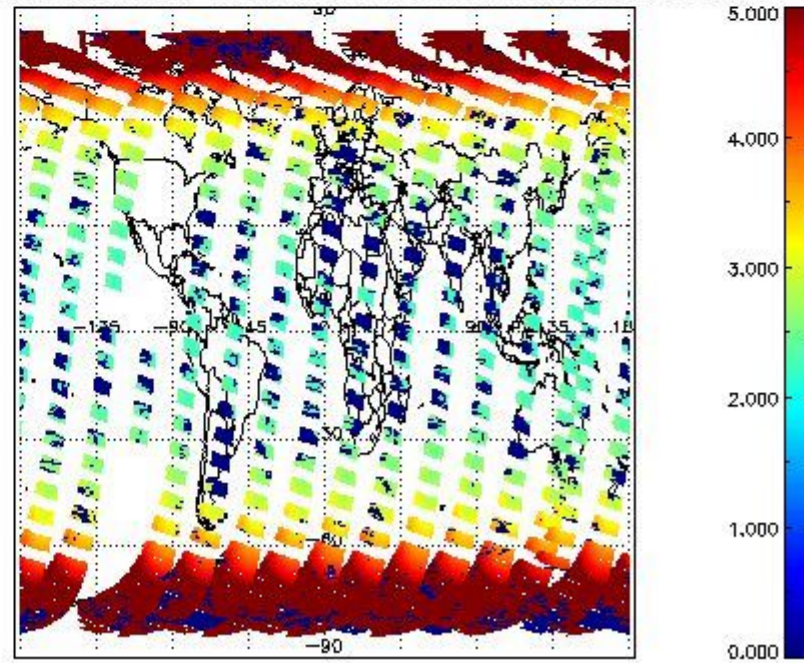
SCIOL2P_NADUV1NO2_vcd_err for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



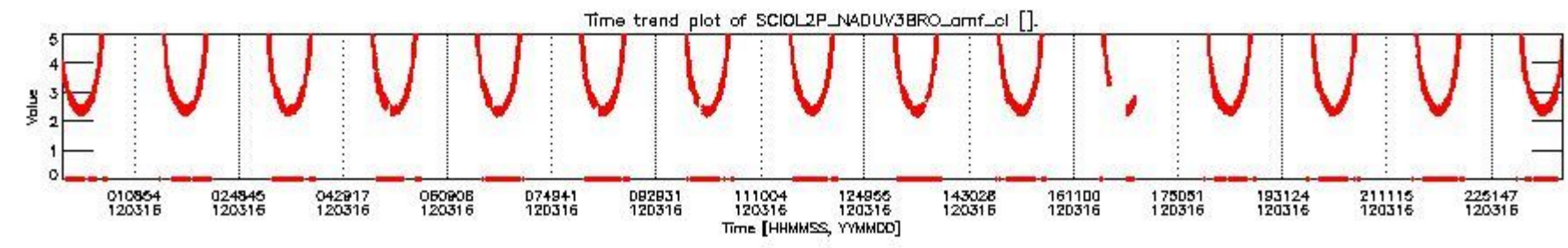
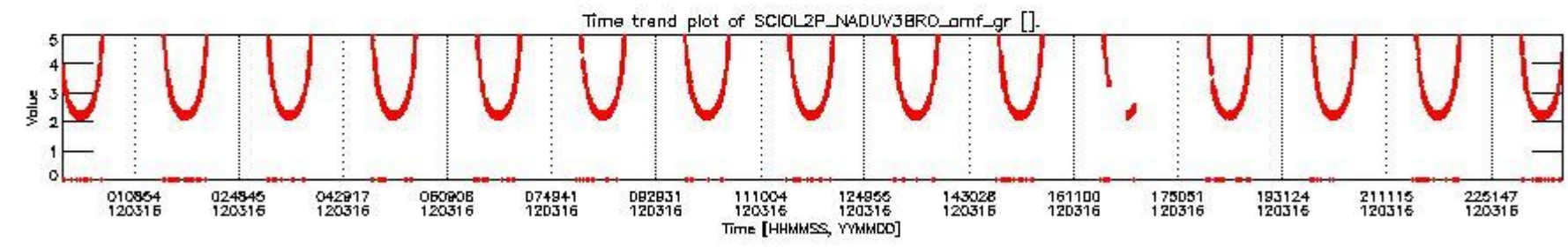
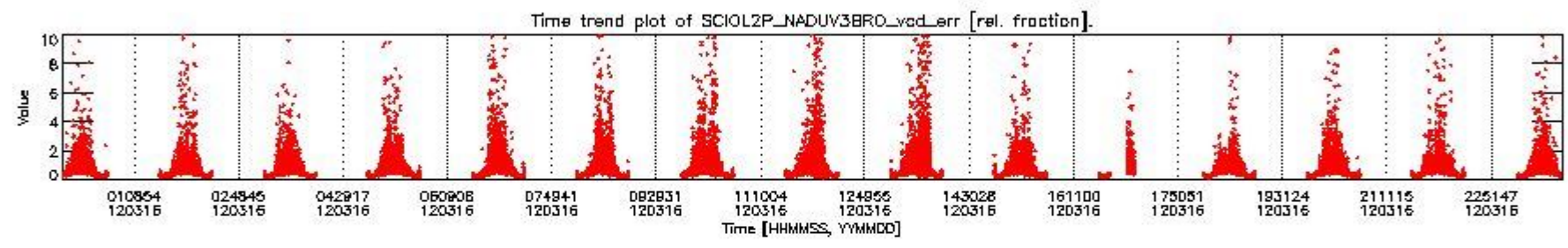
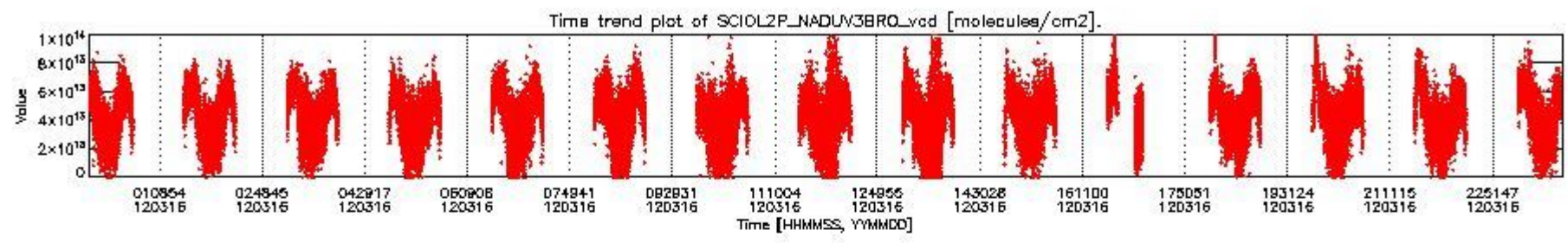
SCIOL2P_NADUV1NO2_amf_gr for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



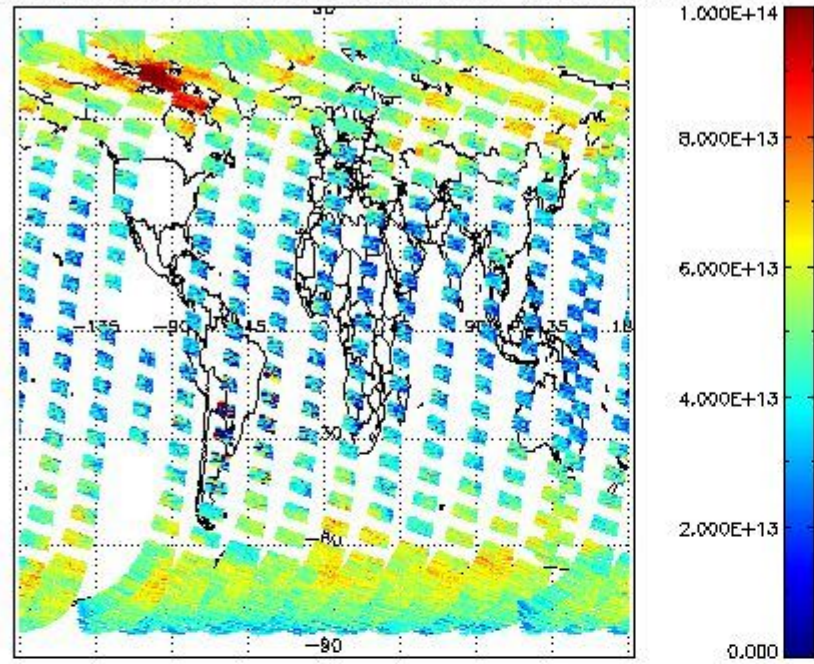
SCIOL2P_NADUV1NO2_amf_cl for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



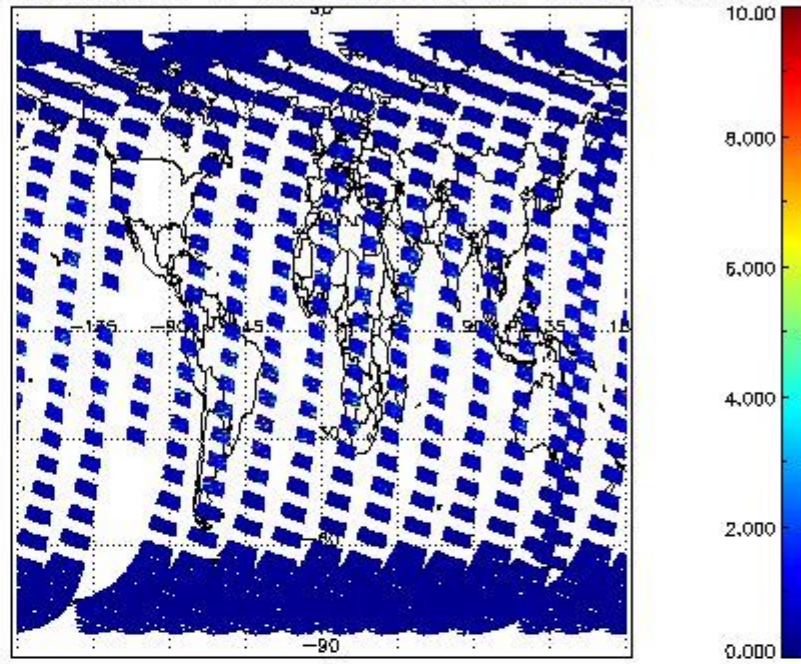
2.2.2.3 BrO (UV3)



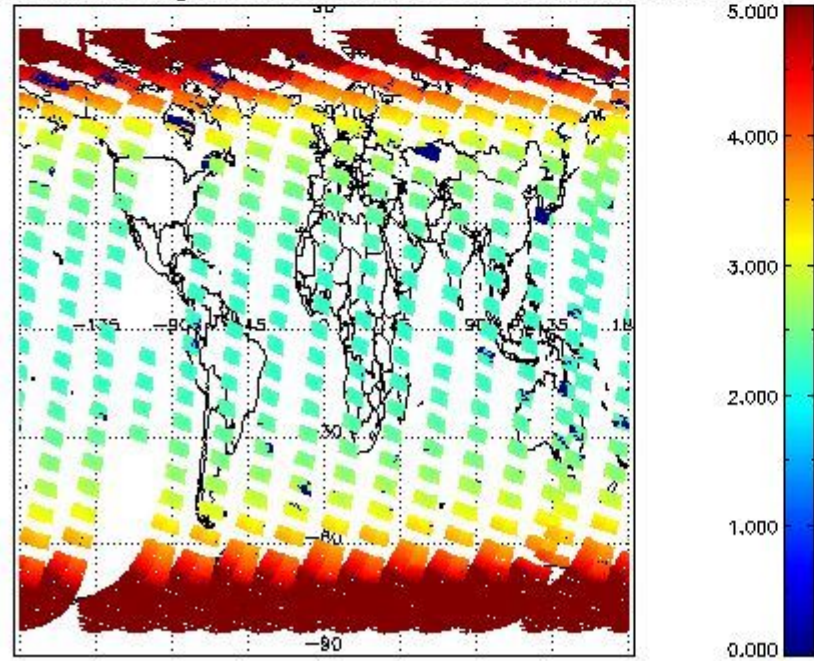
SCIOL2P_NADUV3BRO_vcd for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



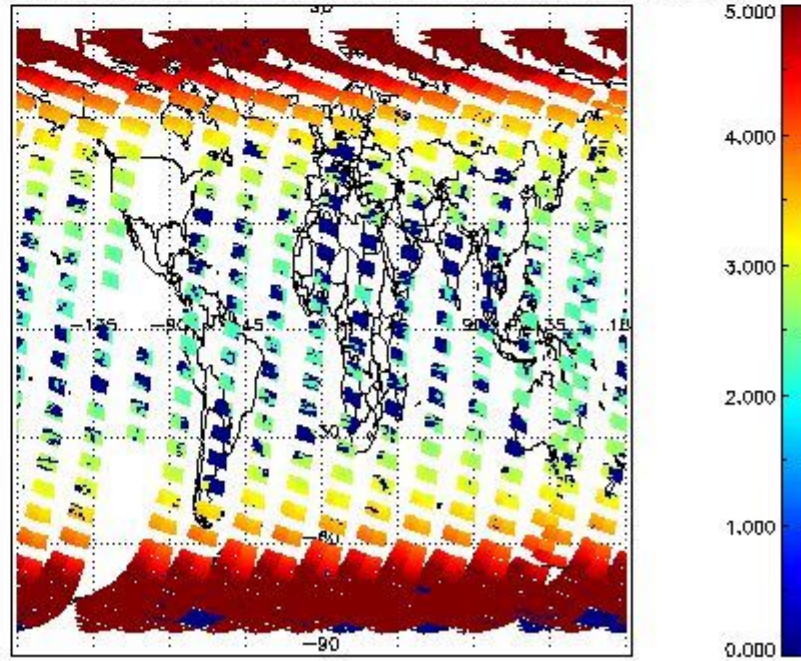
SCIOL2P_NADUV3BRO_vcd_err for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



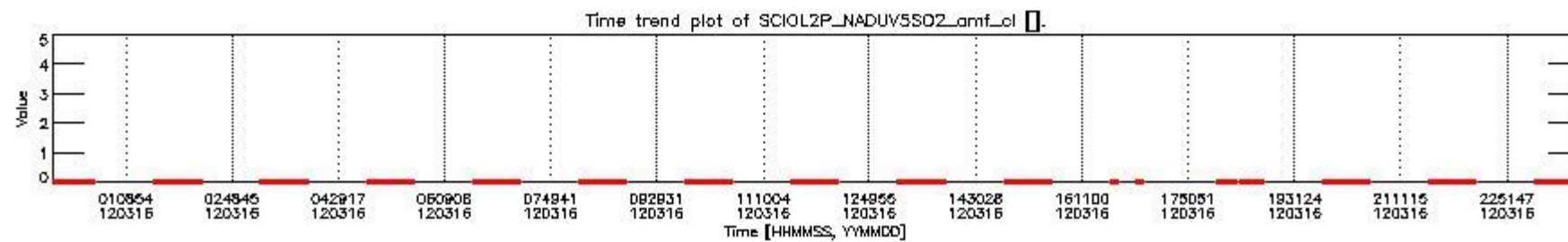
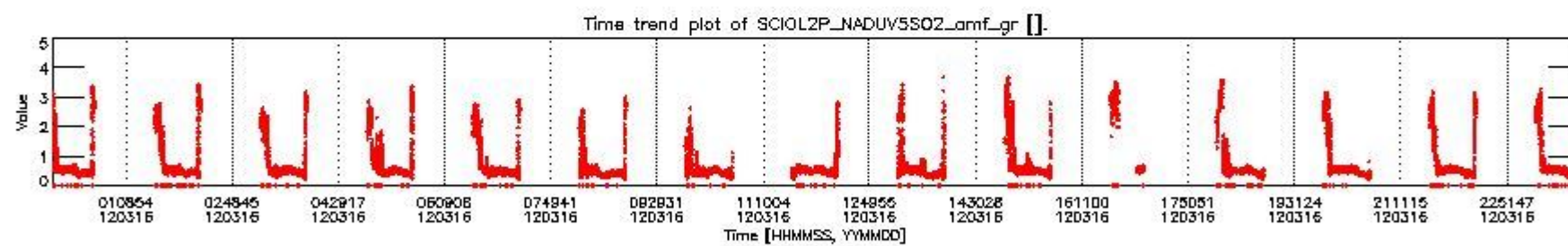
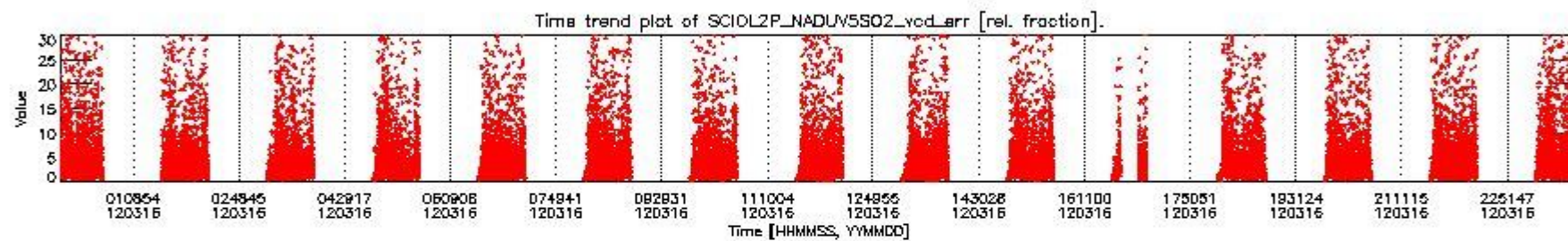
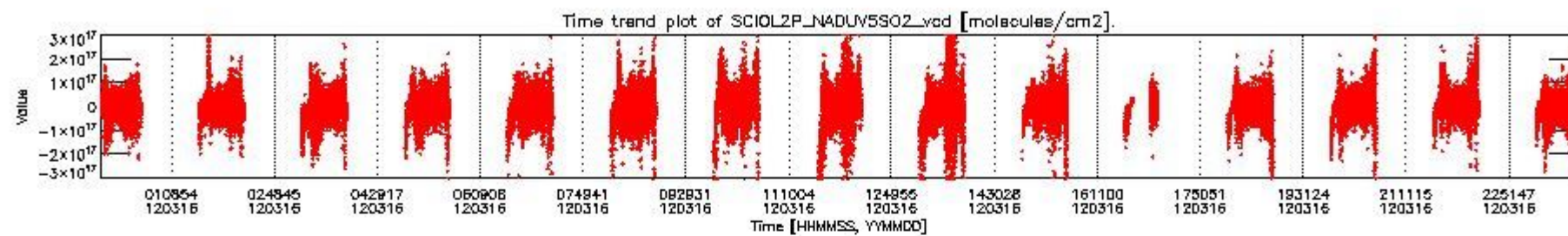
SCIOL2P_NADUV3BRO_amf_gr for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



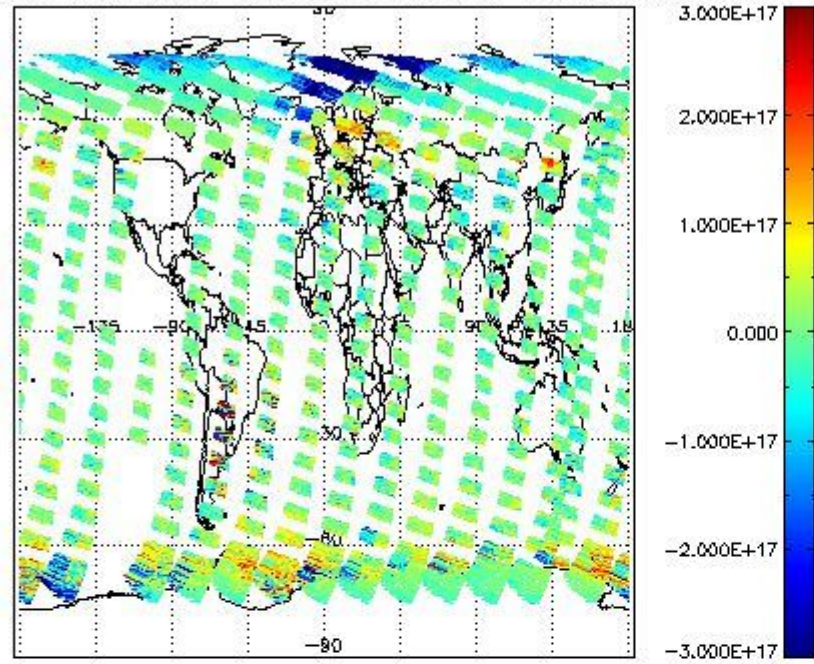
SCIOL2P_NADUV3BRO_amf_cl for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



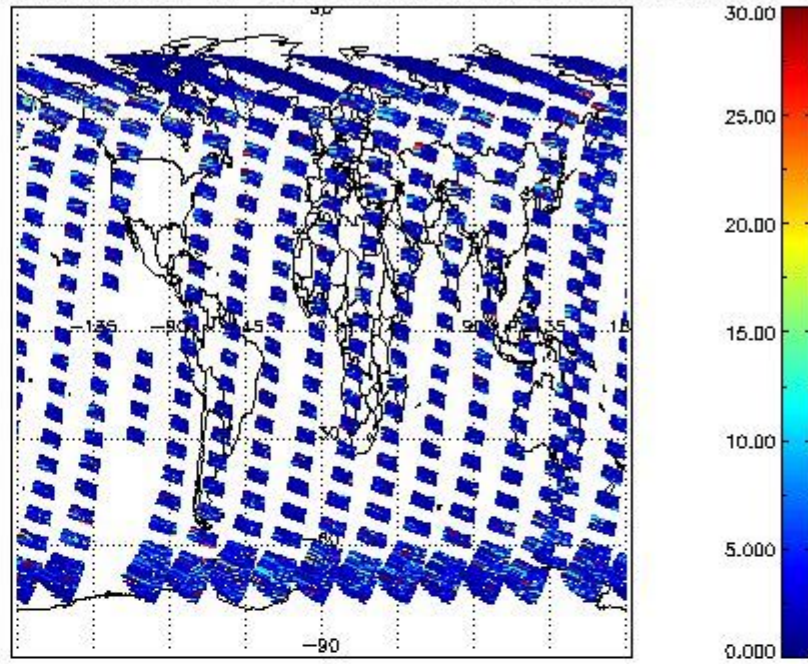
2.2.2.4 SO2 (UV5)



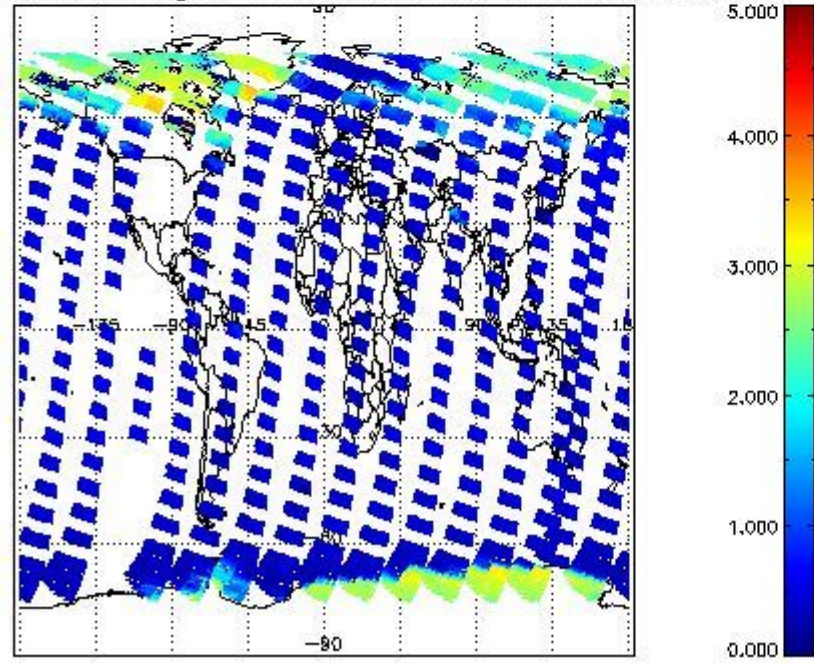
SCIOL2P_NADUV5SO2_vcd for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



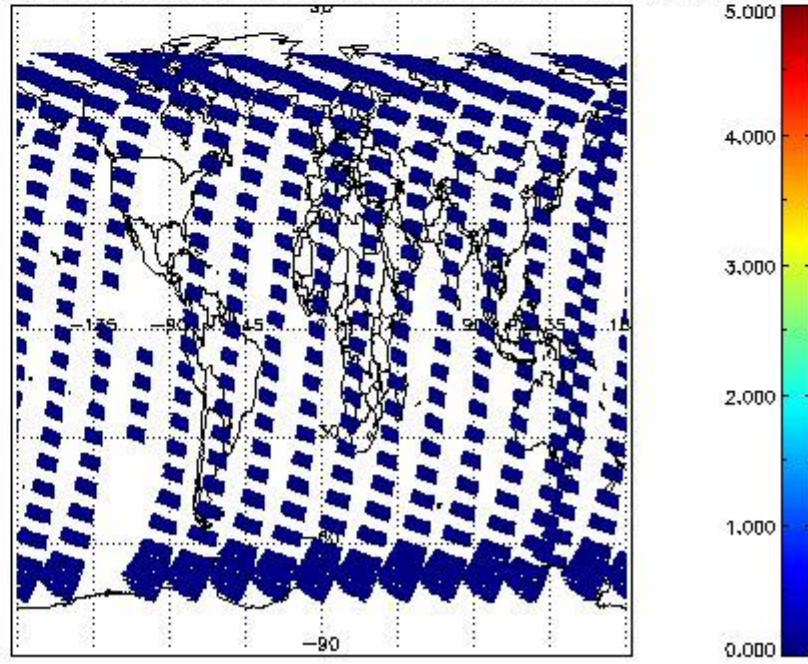
SCIOL2P_NADUV5SO2_vcd_err for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



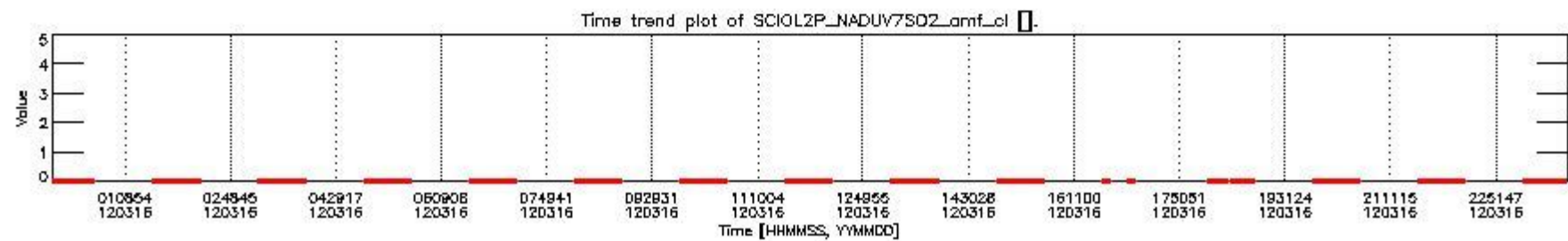
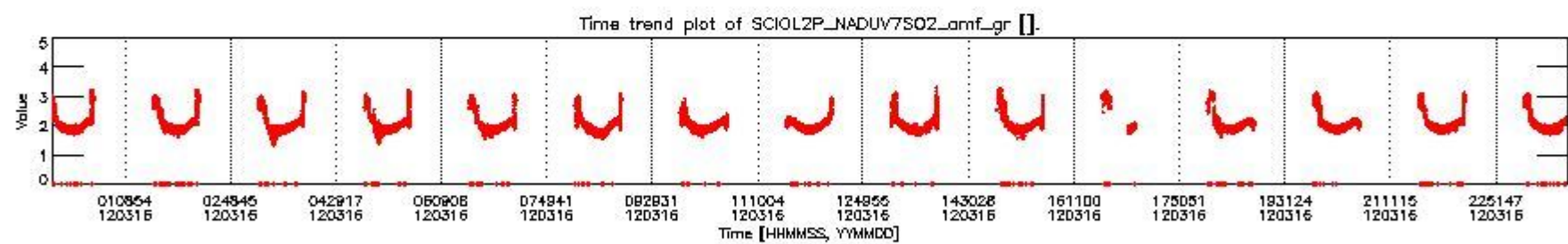
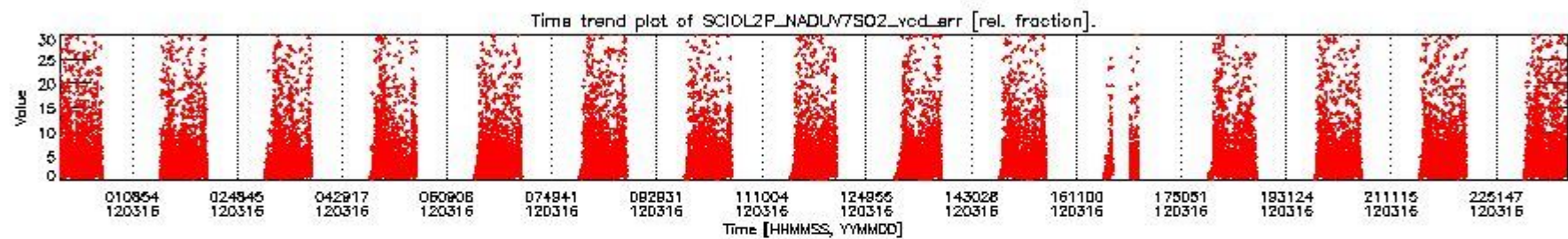
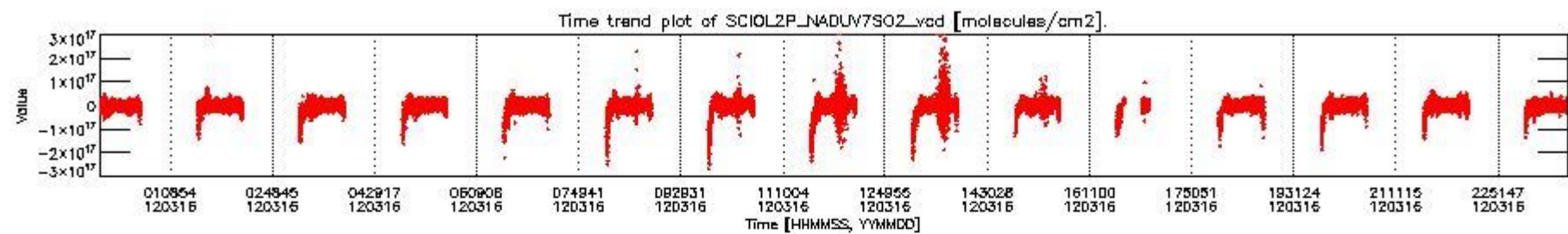
SCIOL2P_NADUV5SO2_amf_gr for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



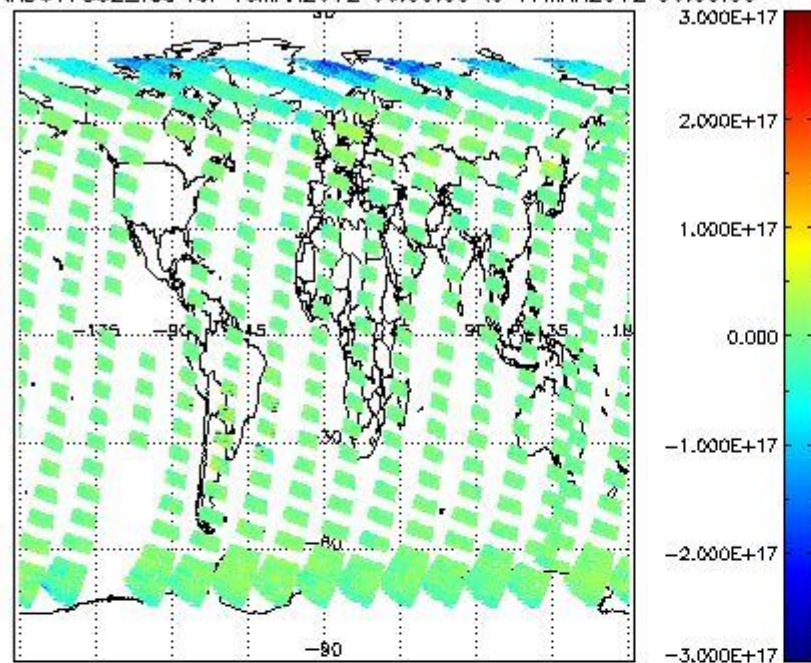
SCIOL2P_NADUV5SO2_amf_cl for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



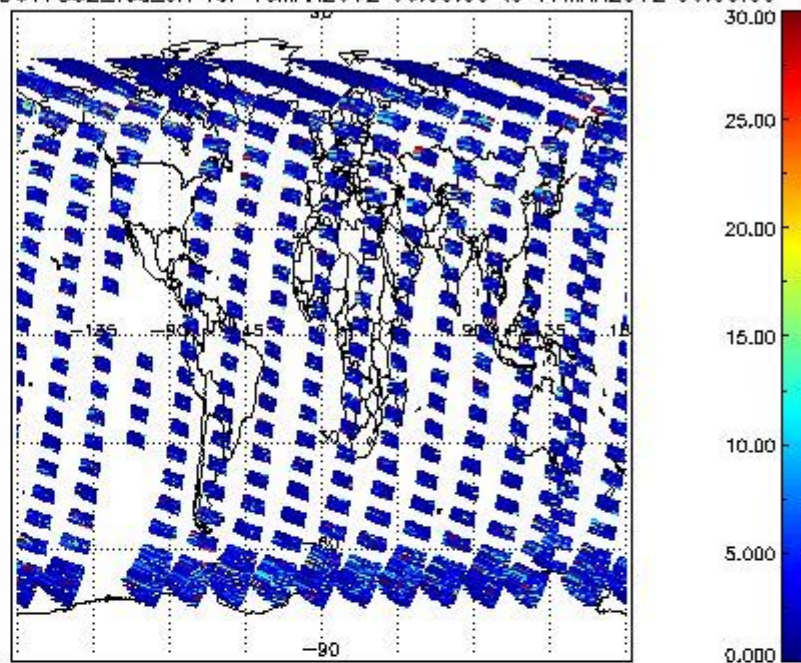
2.2.2.5 SO2 (UV7)



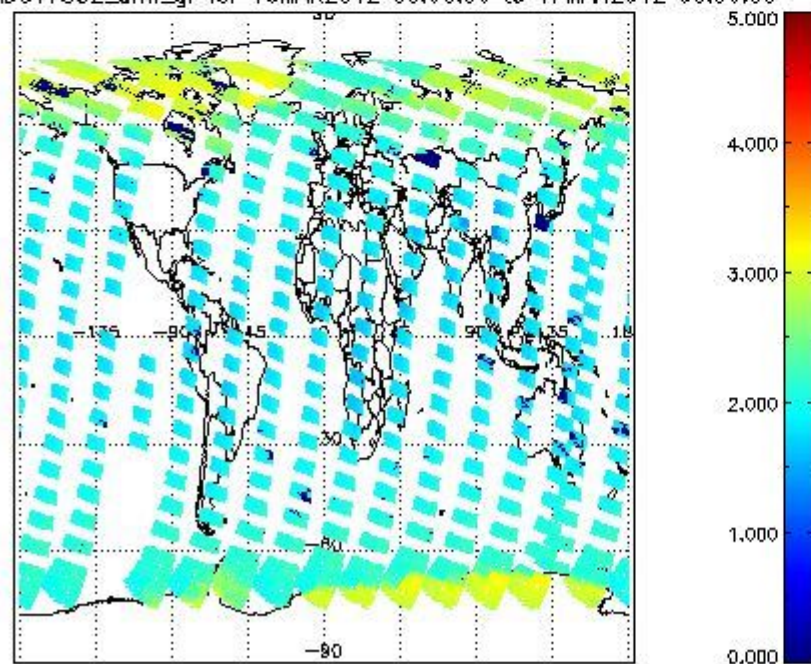
SCIOL2P_NADUV7S02_vcd for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



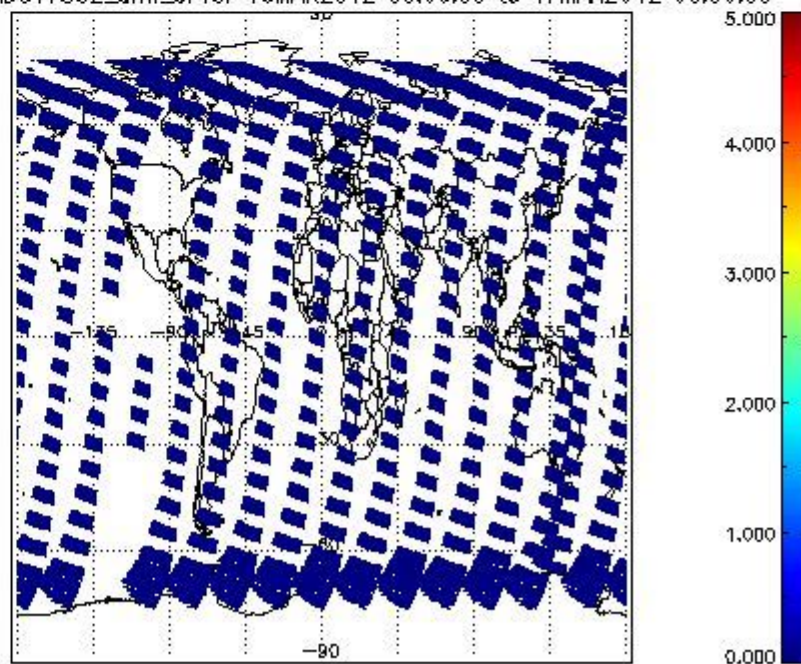
SCIOL2P_NADUV7S02_vcd_err for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



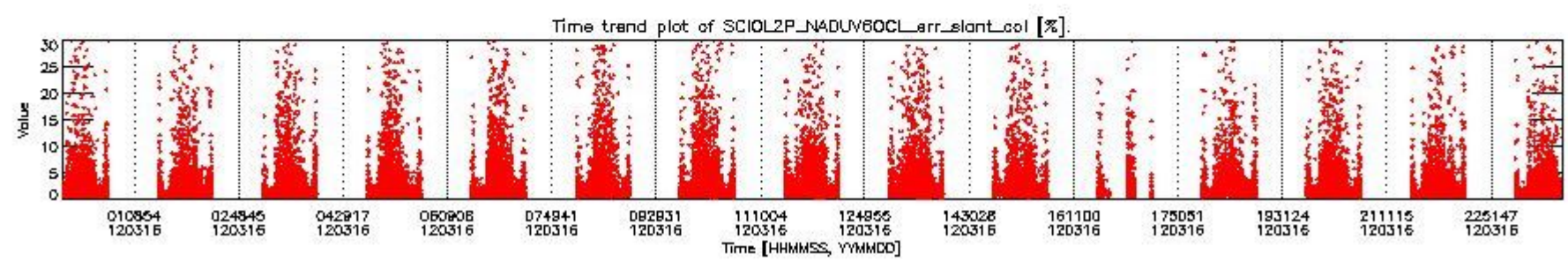
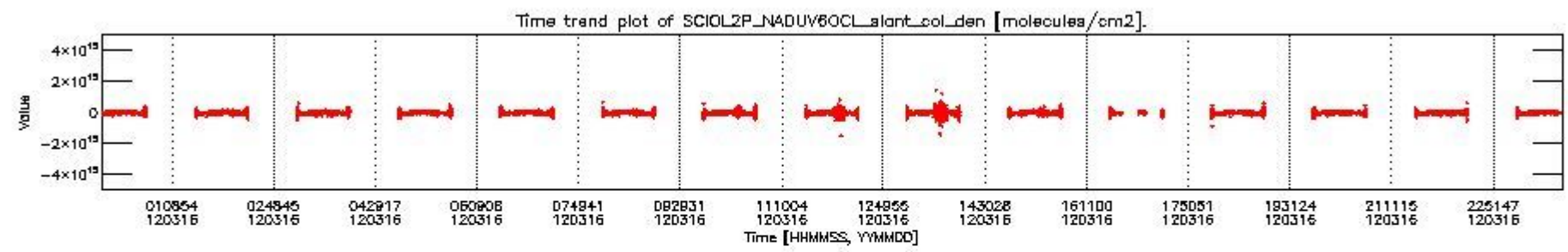
SCIOL2P_NADUV7S02_amf_gr for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



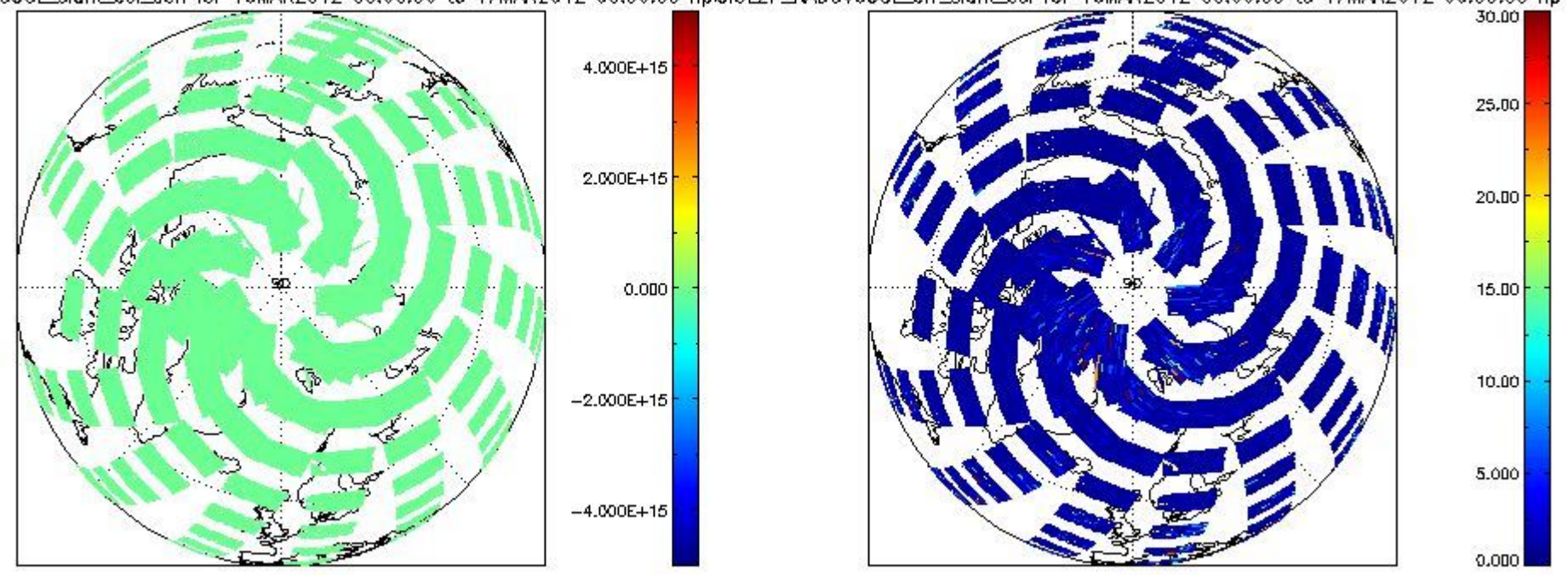
SCIOL2P_NADUV7S02_amf_cl for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



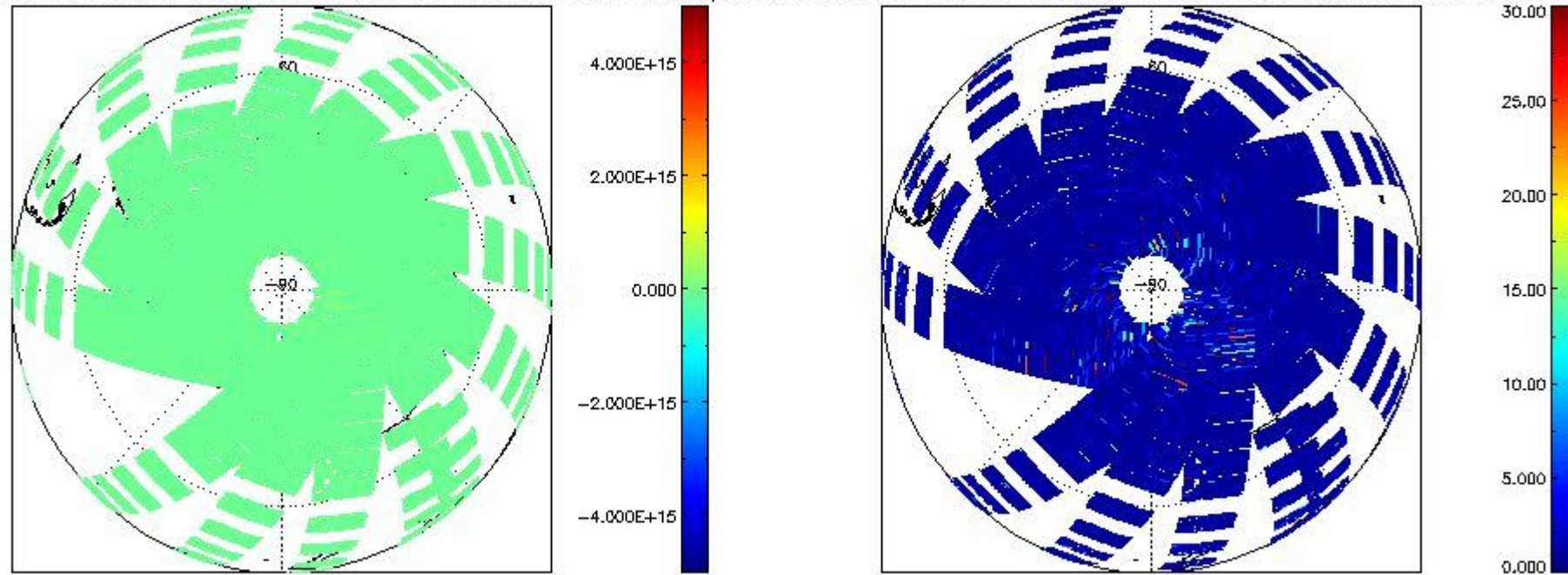
2.2.2.6 OCIO (UV6)



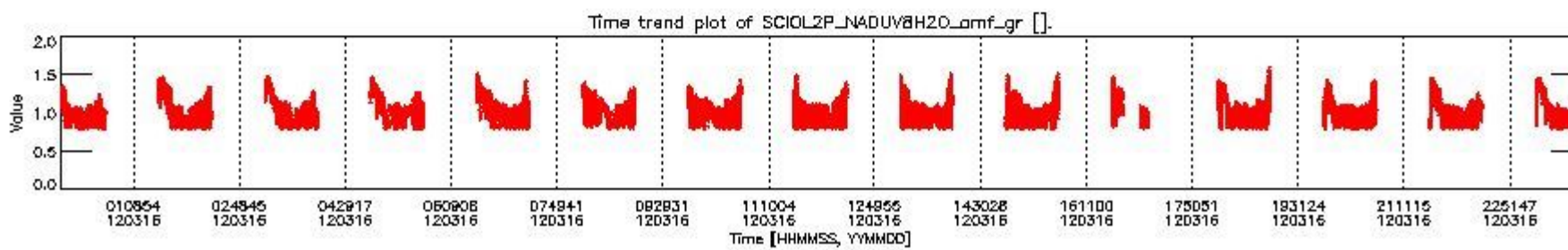
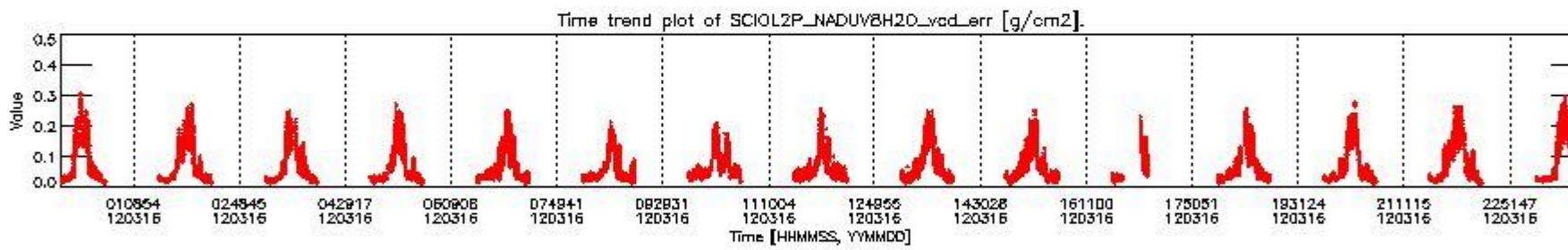
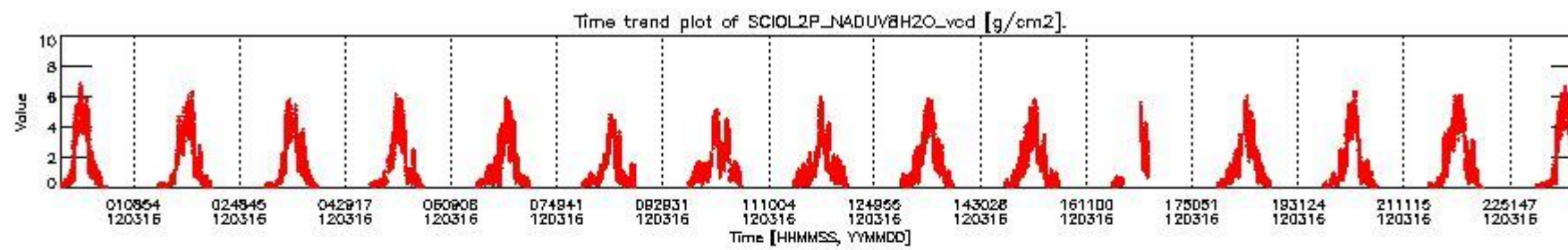
CIOL2P_NADUV6OCL_slant_col_den for 16MAR2012 00:00:00 to 17MAR2012 00:00:00 np CIOL2P_NADUV6OCL_err_slant_col for 16MAR2012 00:00:00 to 17MAR2012 00:00:00 np



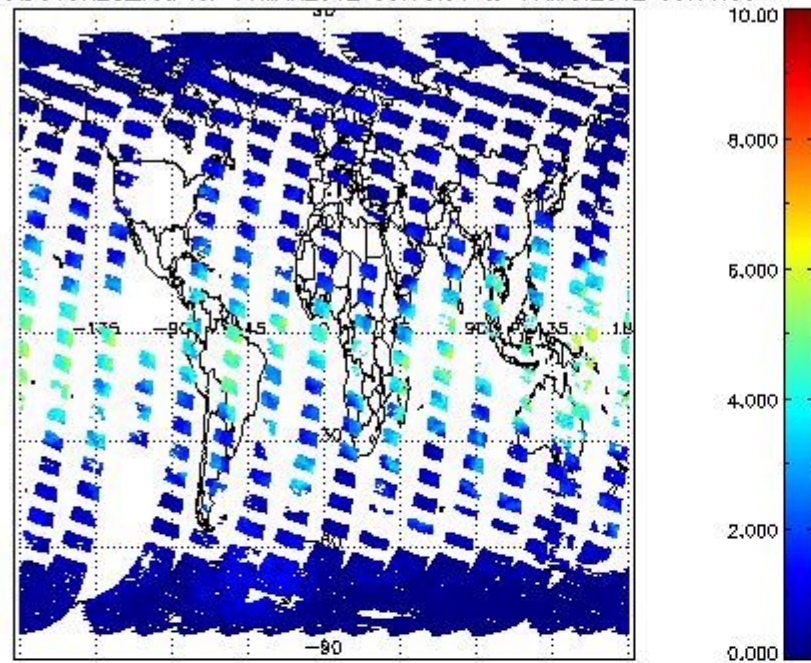
CIOL2P_NADUV6OCL_slant_coLden for 16MAR2012 00:00:00 to 17MAR2012 00:00:00 spCIOL2P_NADUV6OCL_err_slant_col for 16MAR2012 00:00:00 to 17MAR2012 00:00:00 sp



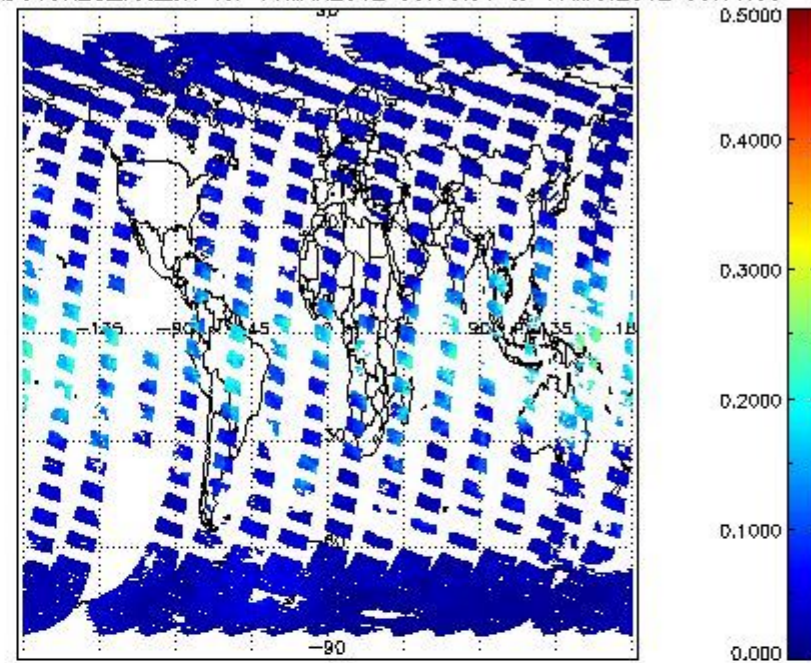
2.2.2.7 H2O (UV8)



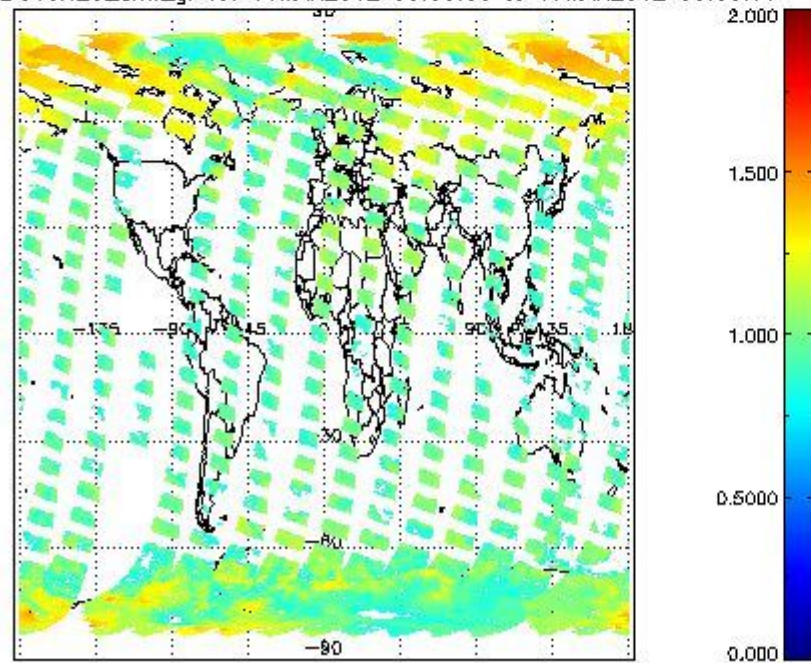
SCIOL2P_NADUV8H2O_vcd for 16MAR2012 00:00:00 to 17MAR2012 00:00:00

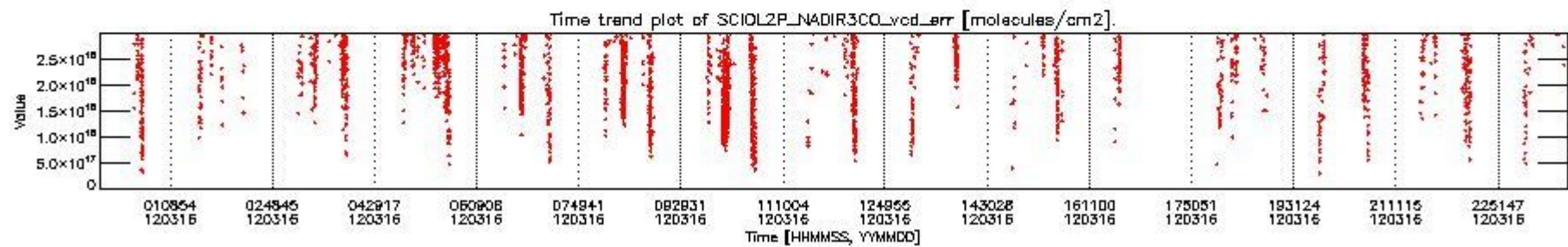
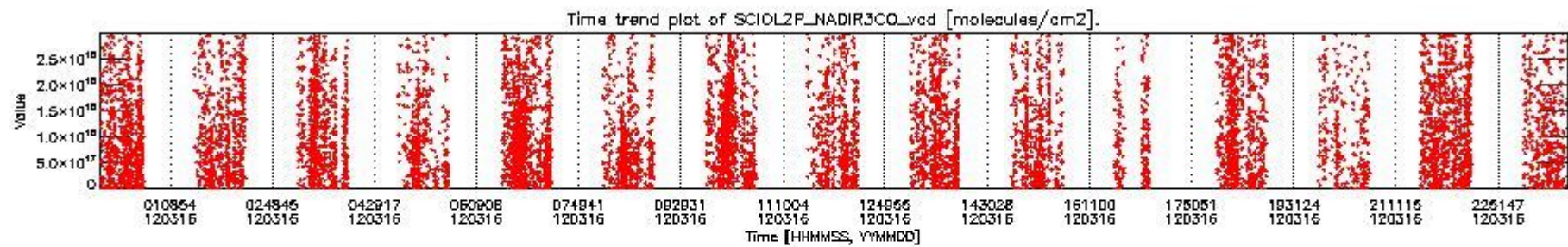


SCIOL2P_NADUV8H2O_vcd_err for 16MAR2012 00:00:00 to 17MAR2012 00:00:00

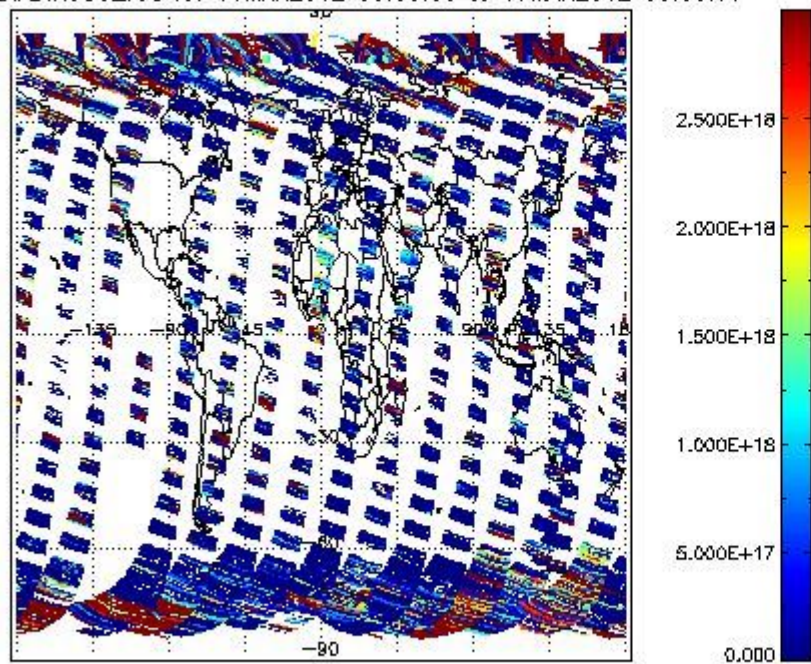


SCIOL2P_NADUV8H2O_arnf_gr for 16MAR2012 00:00:00 to 17MAR2012 00:00:00

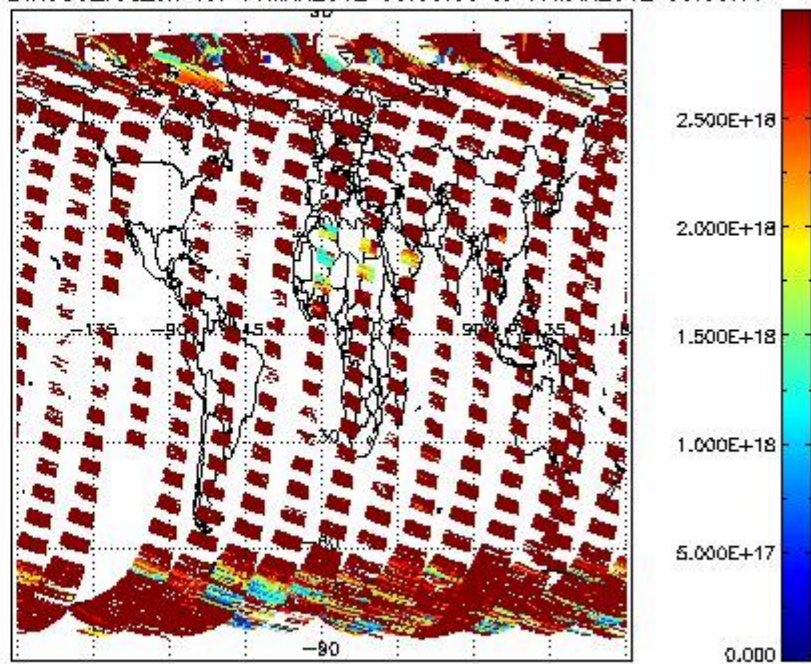




SCIDL2P_NADIR3CO_vcd for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



SCIDL2P_NADIR3CO_vcd_err for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



2.2.3 Limb

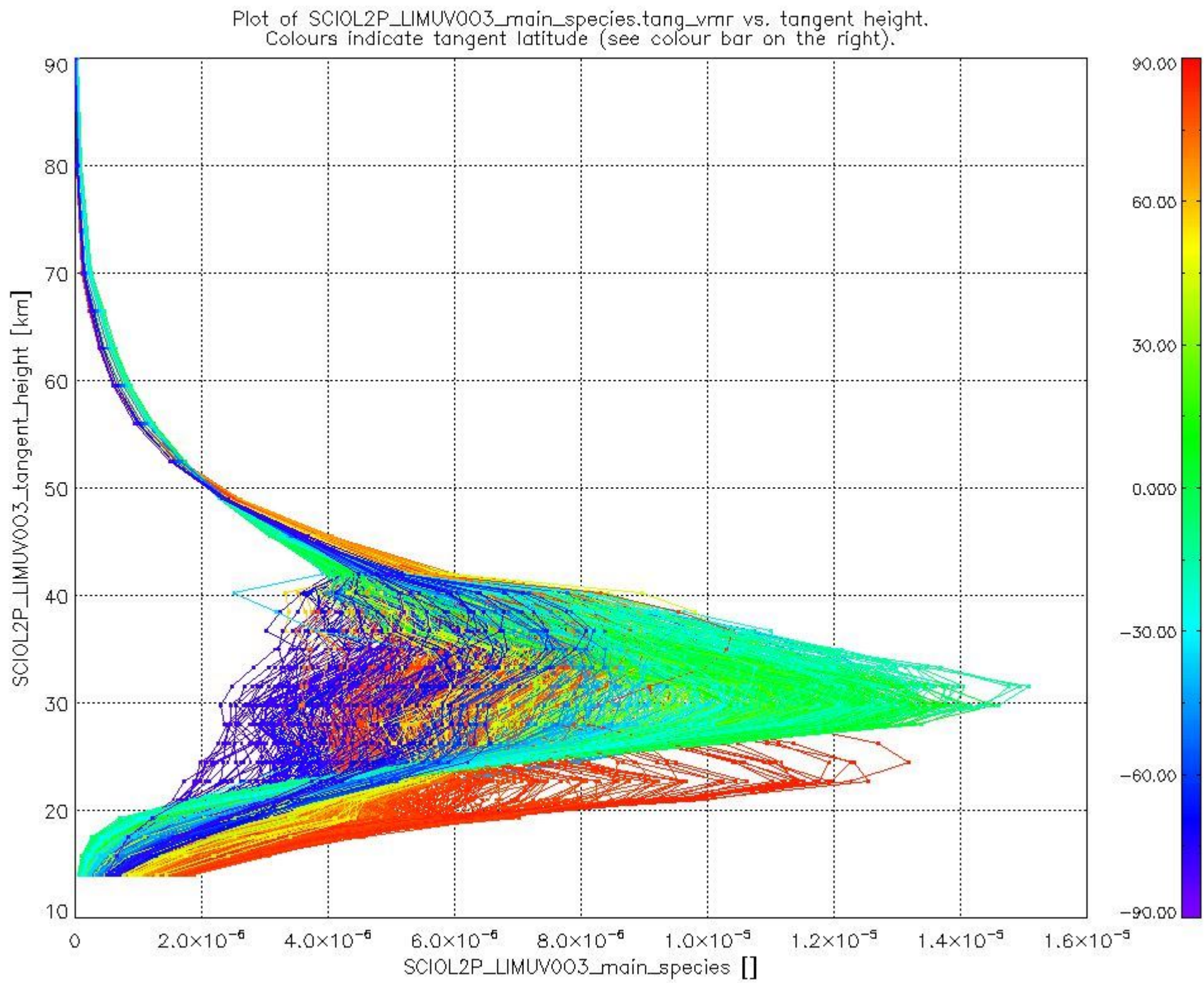
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

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

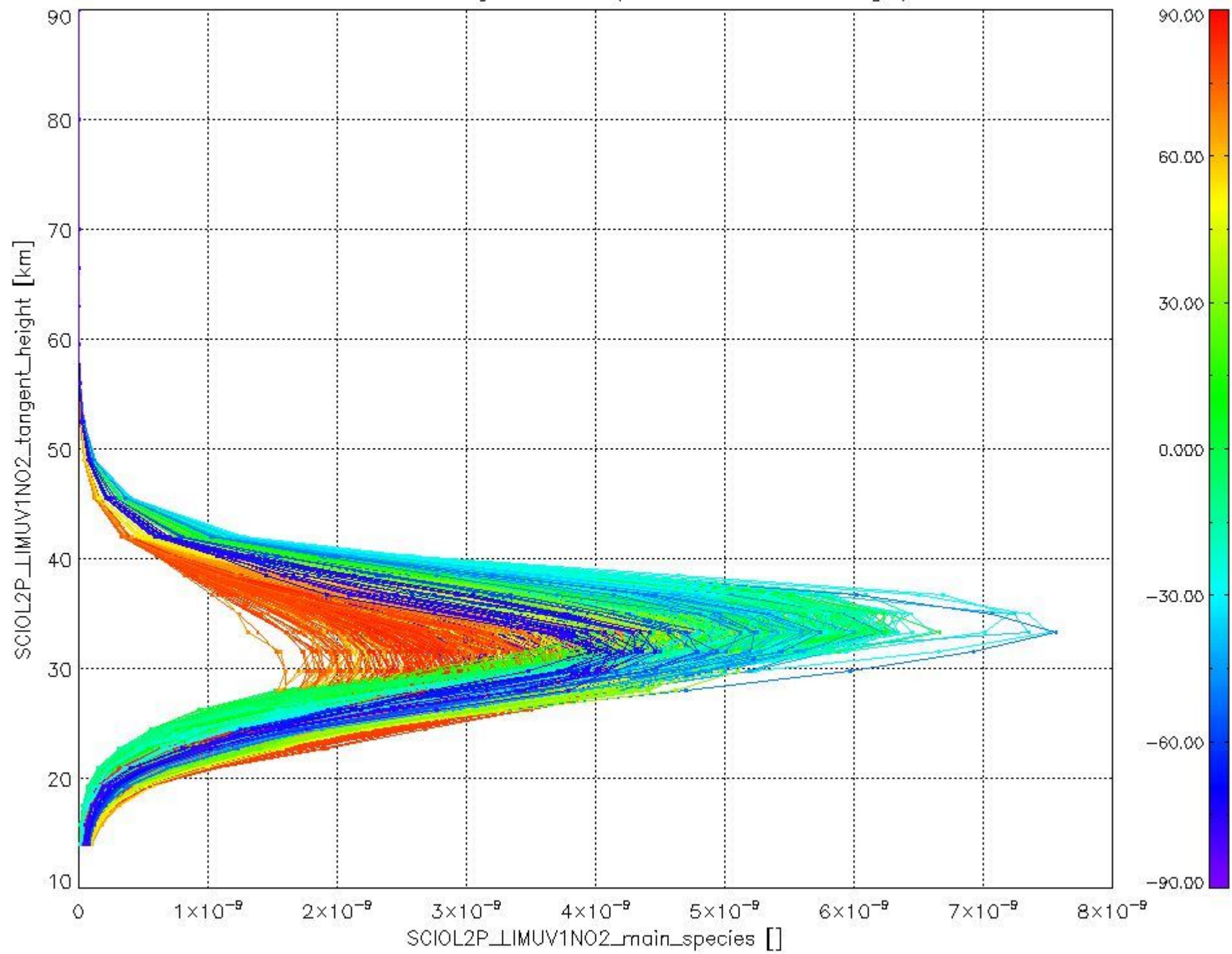
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



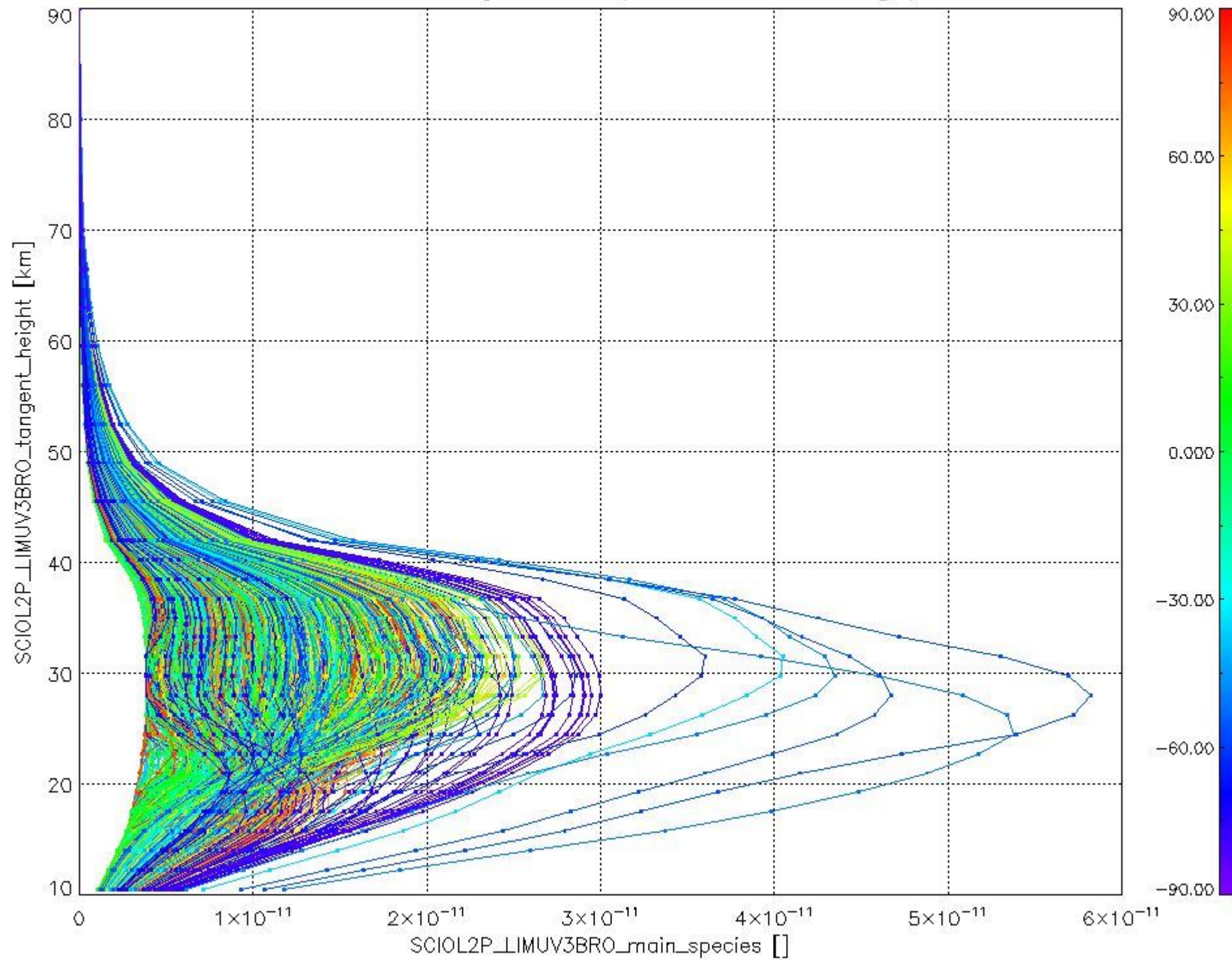
2.2.3.2 NO2 (UV1)

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)

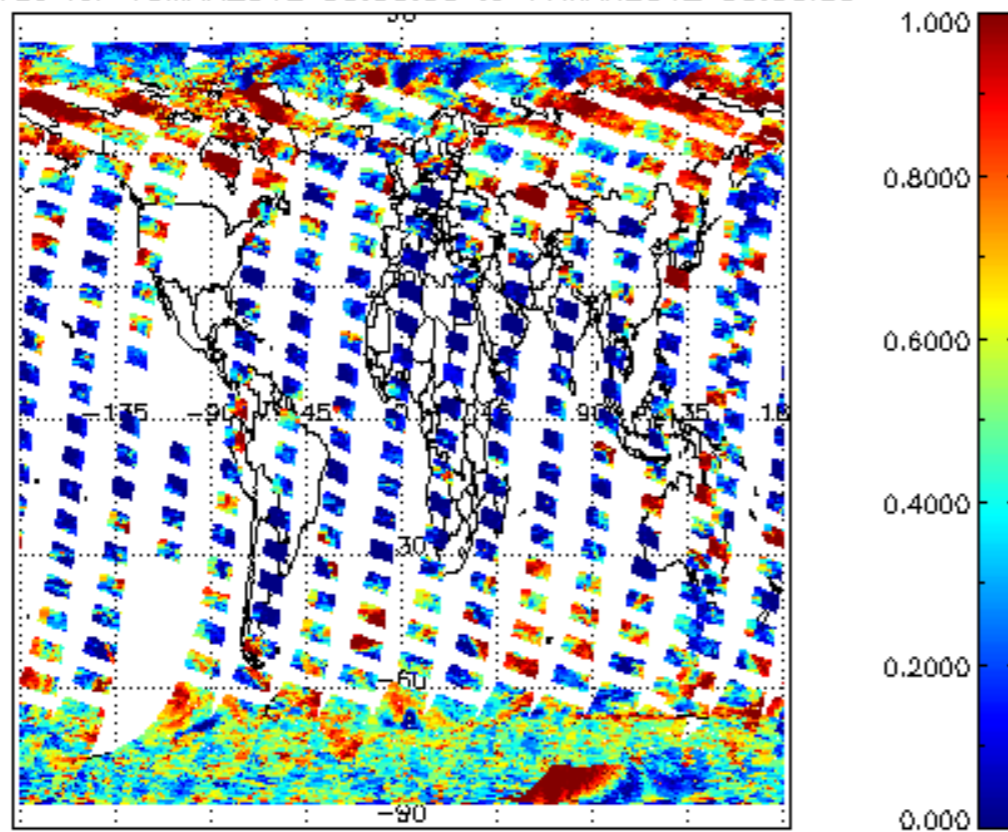
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



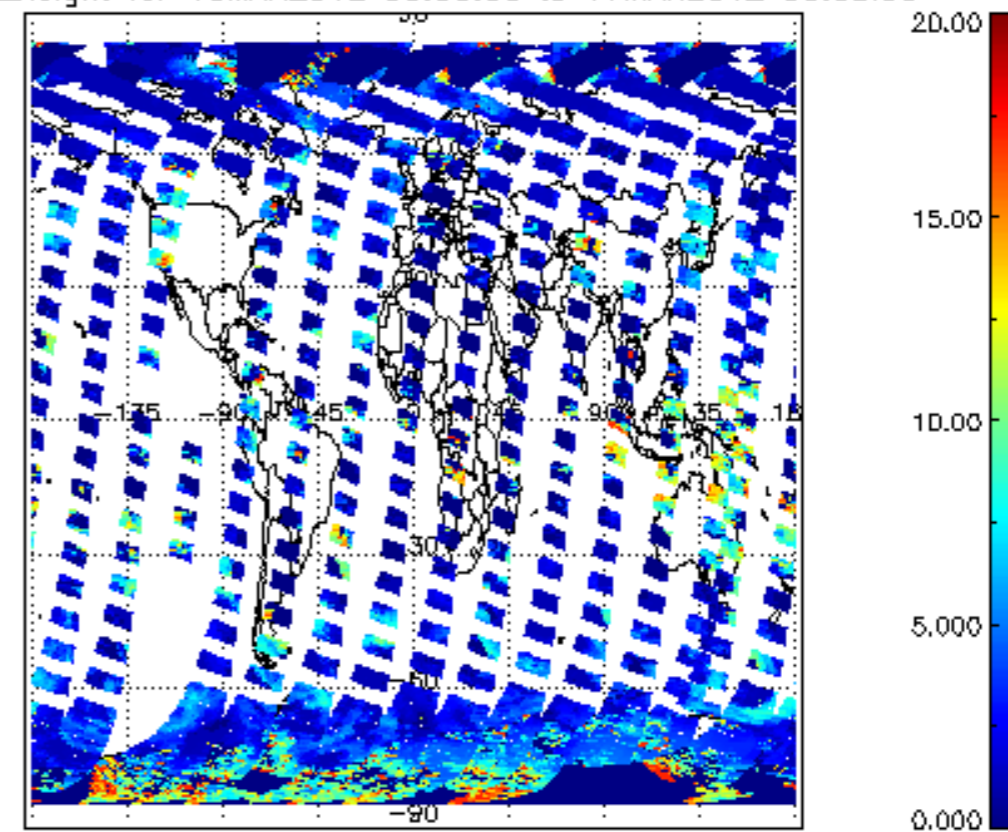
2.3 ADF monitoring

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_AXVIEC20120320_165950_20120315_180929_20120317_180929
3	SCI_MF1_AXVIEC20120320_170025_20120316_191258_20120318_191258

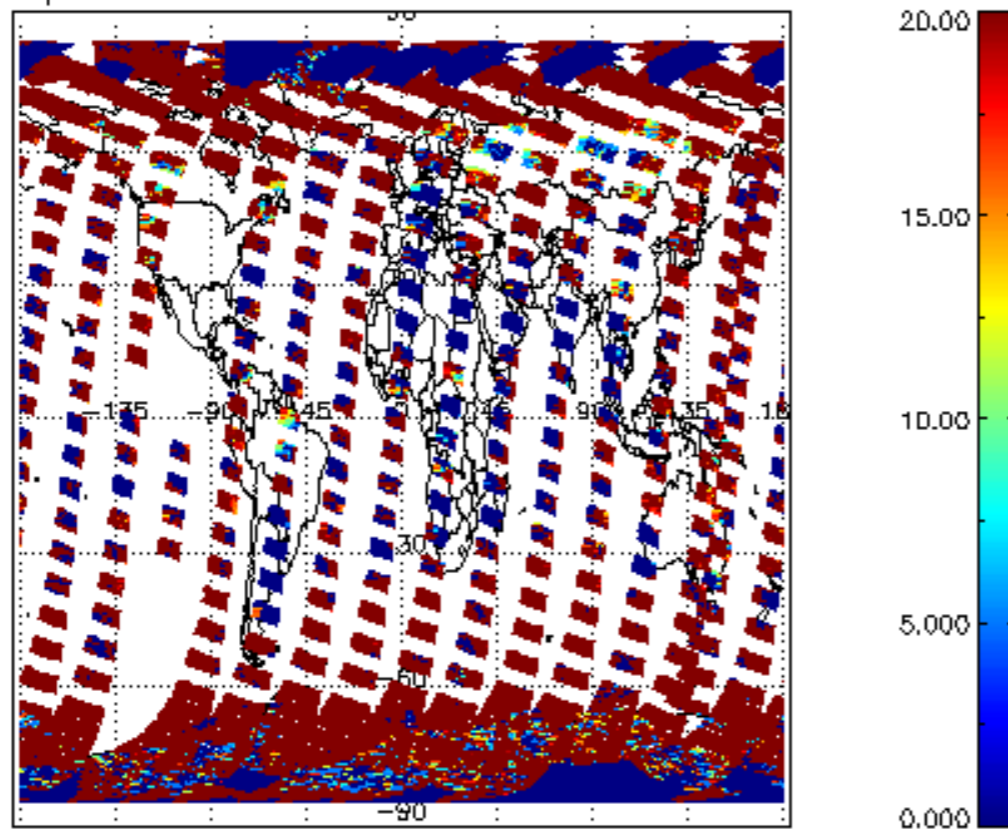
cL_frac for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



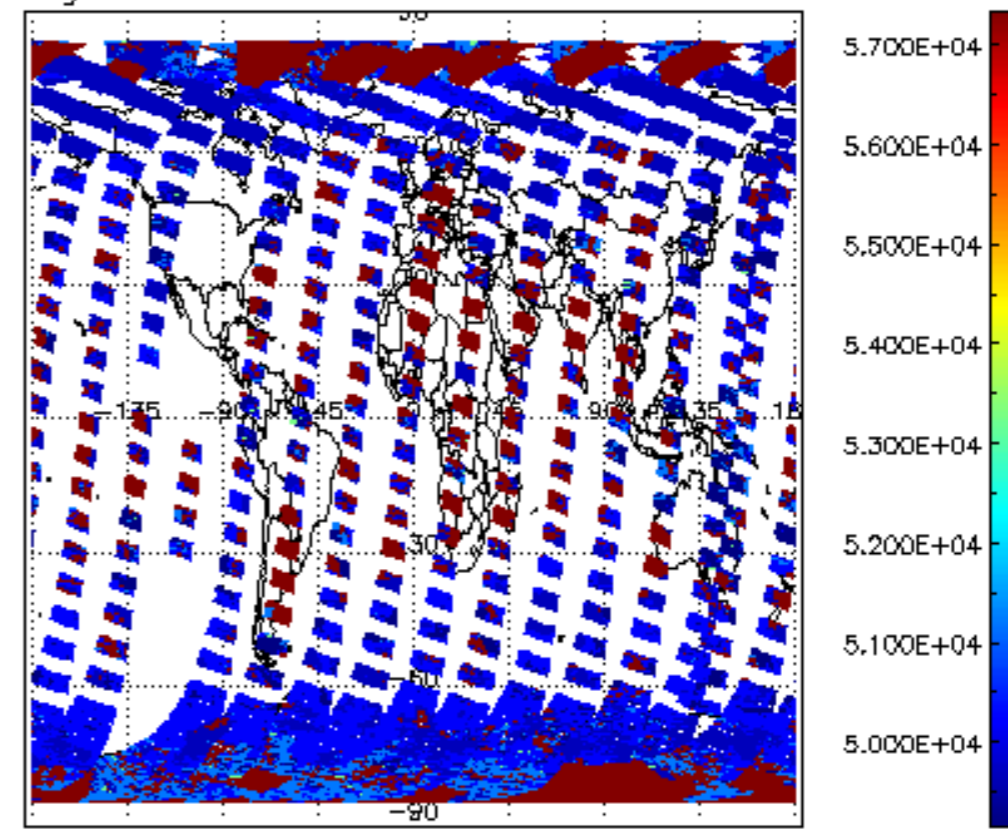
cL_top_height for 16MAR2012 00:00:00 to 17MAR2012 00:00:00

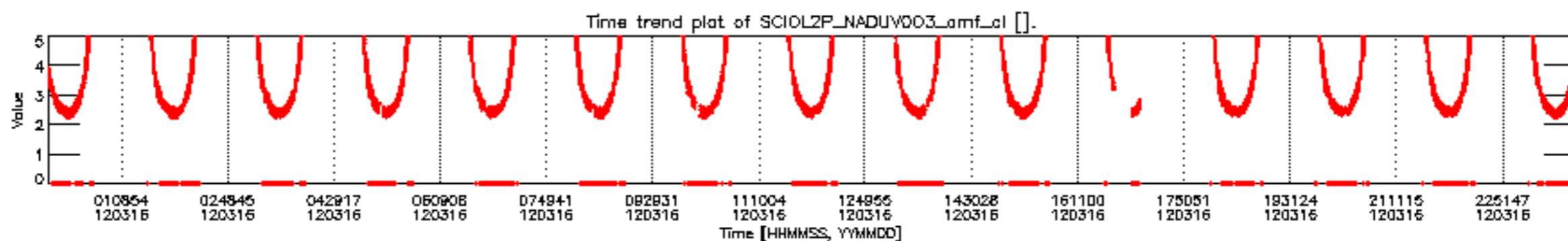
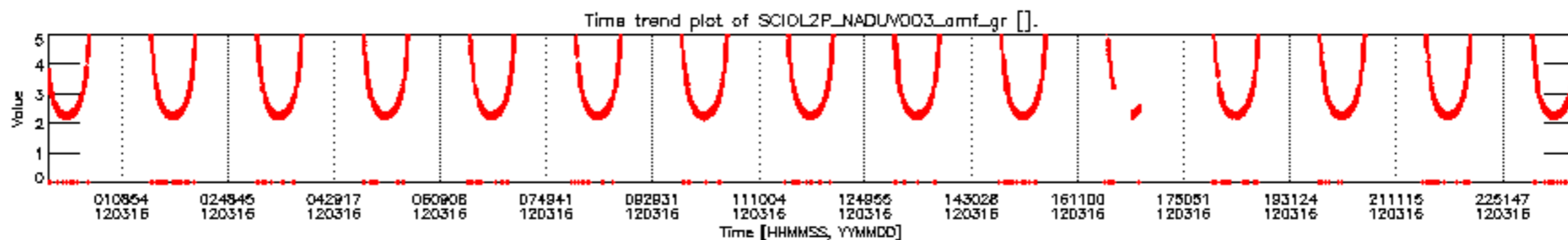
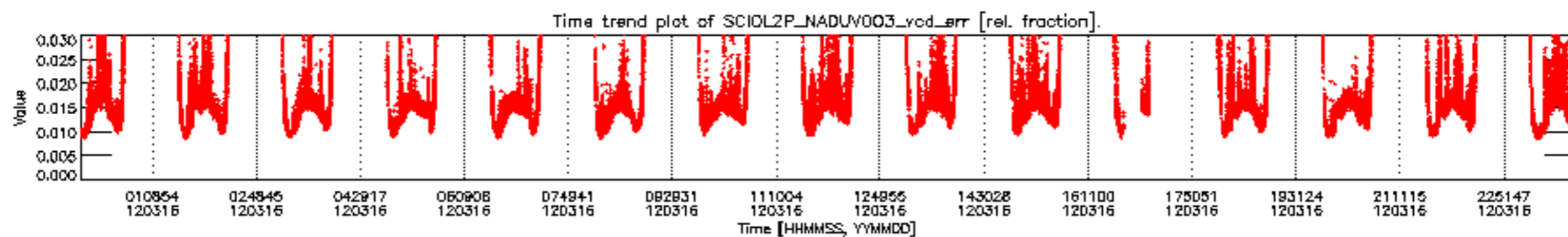
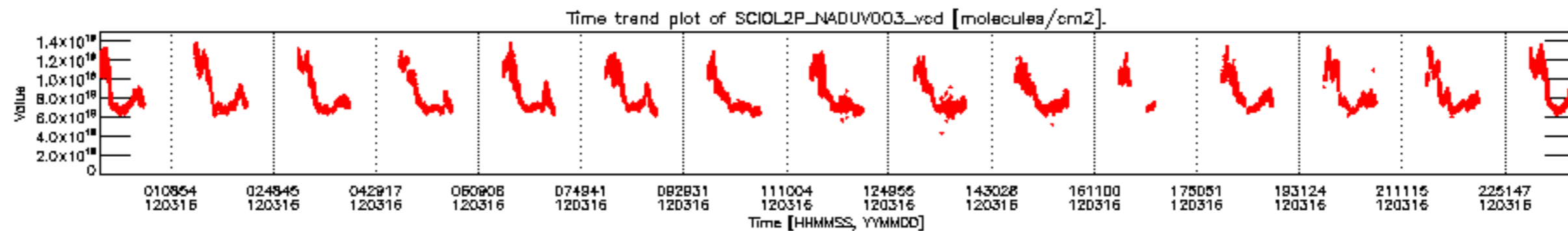


cL_opt_depth for 16MAR2012 00:00:00 to 17MAR2012 00:00:00

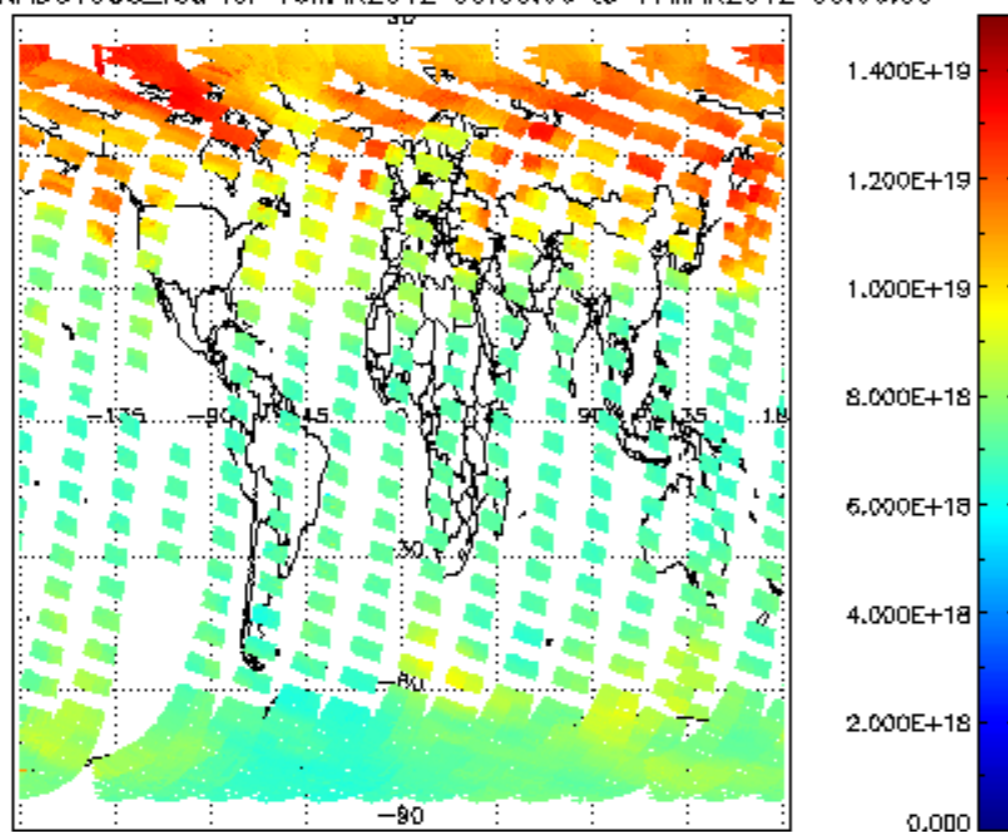


cloud_flags for 16MAR2012 00:00:00 to 17MAR2012 00:00:00

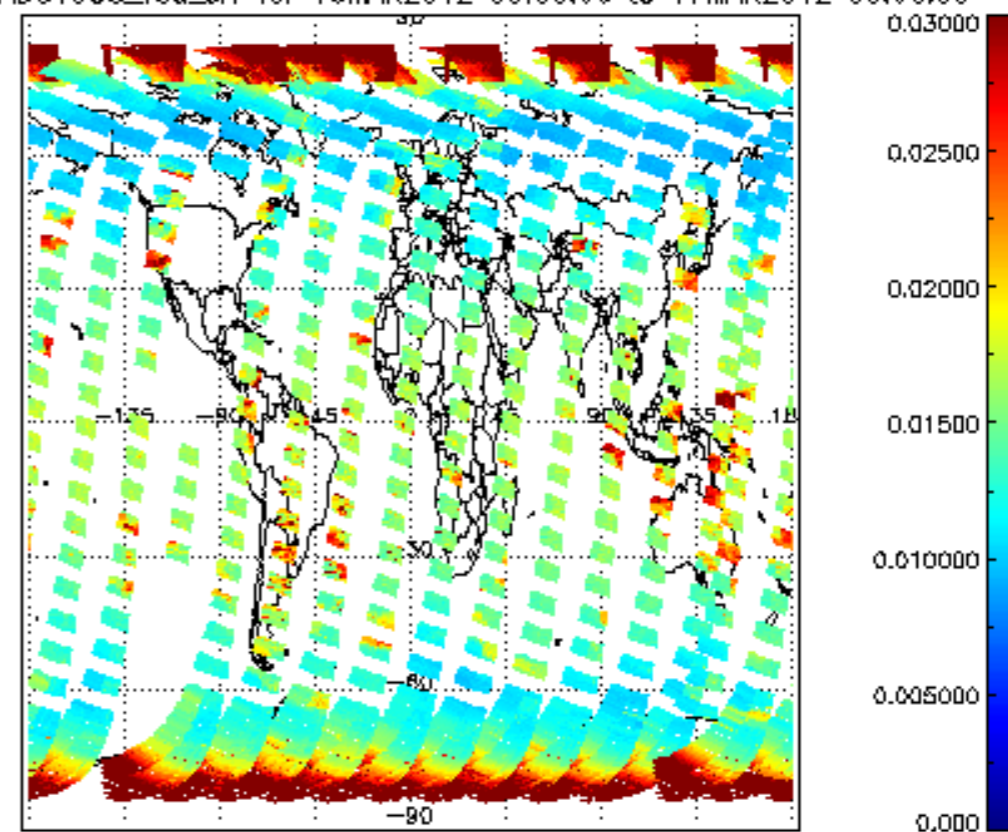




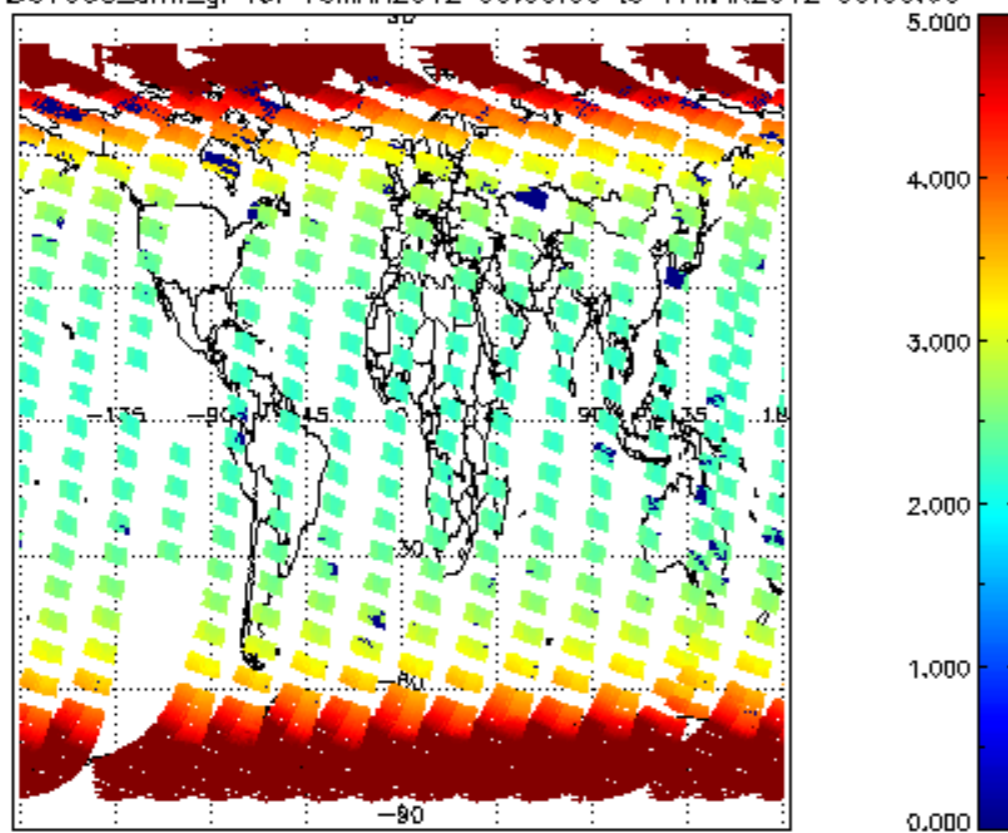
SCIOL2P_NADUV003_vcd for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



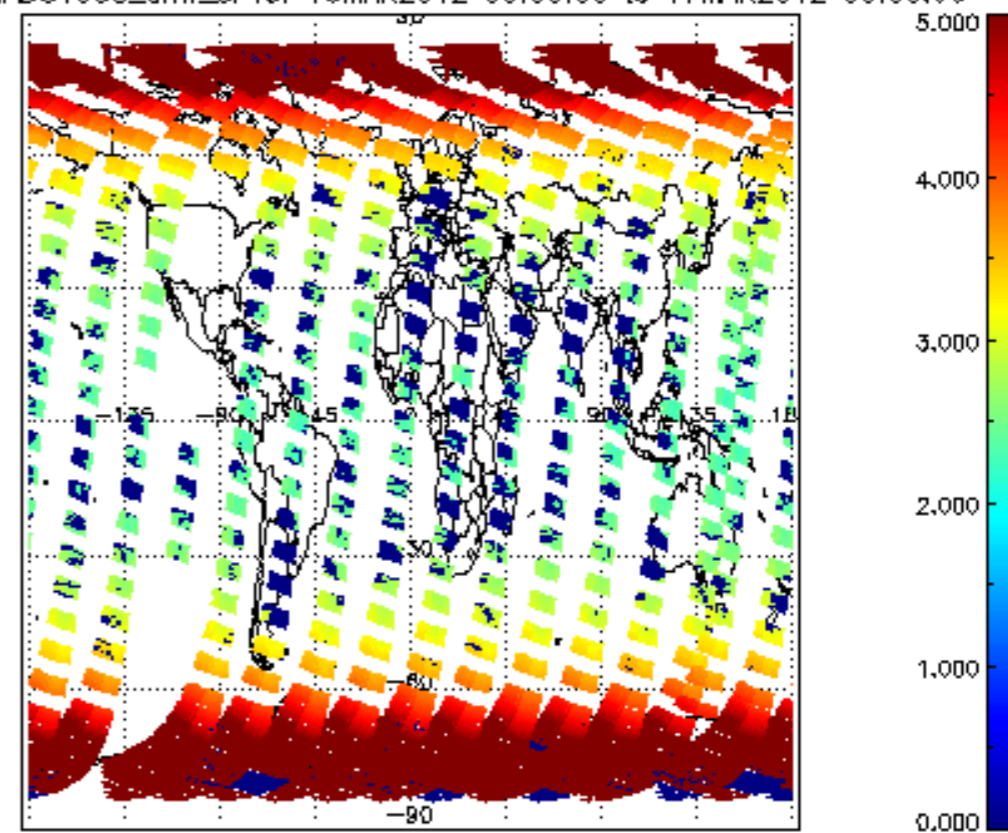
SCIOL2P_NADUV003_vcd_err for 16MAR2012 00:00:00 to 17MAR2012 00:00:00

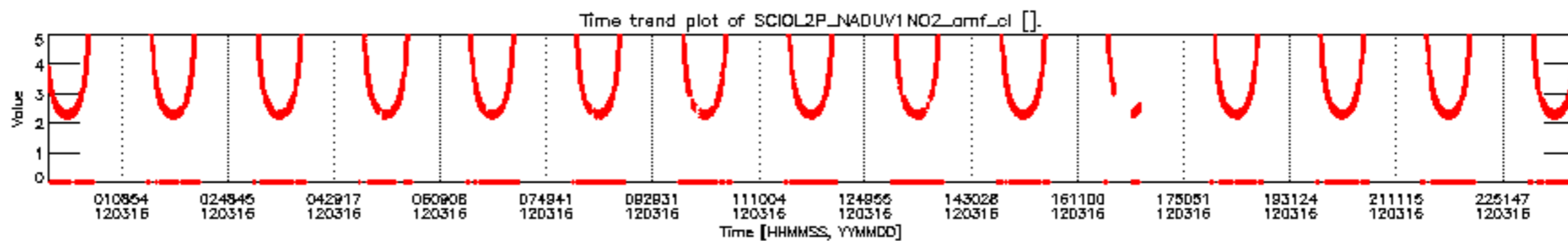
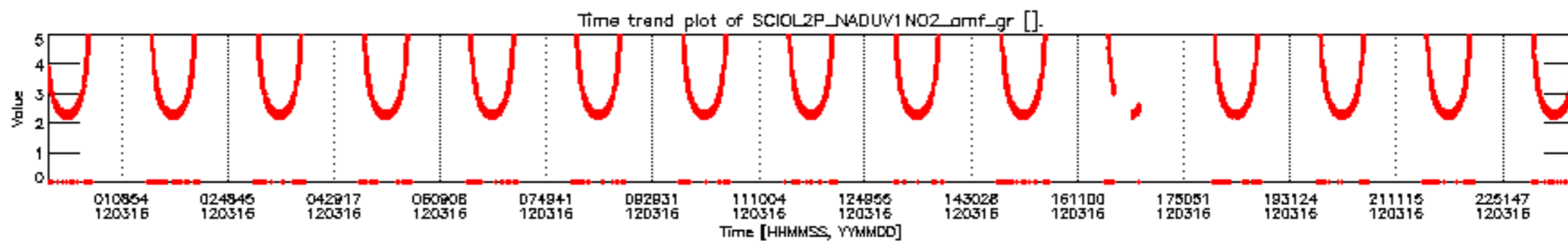
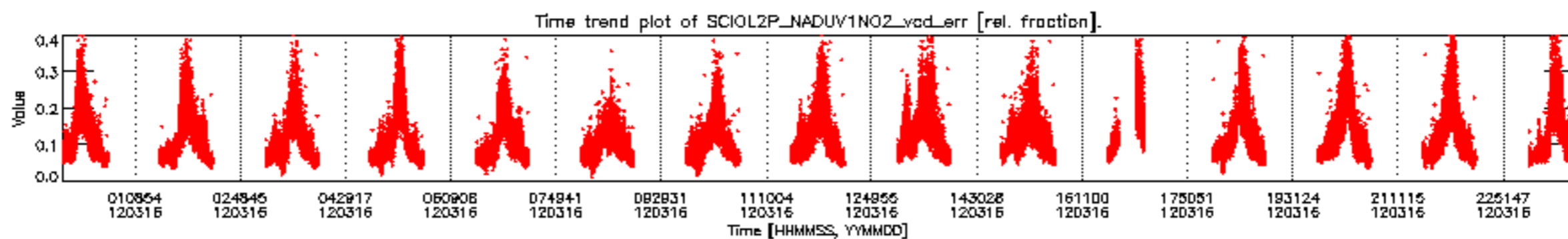
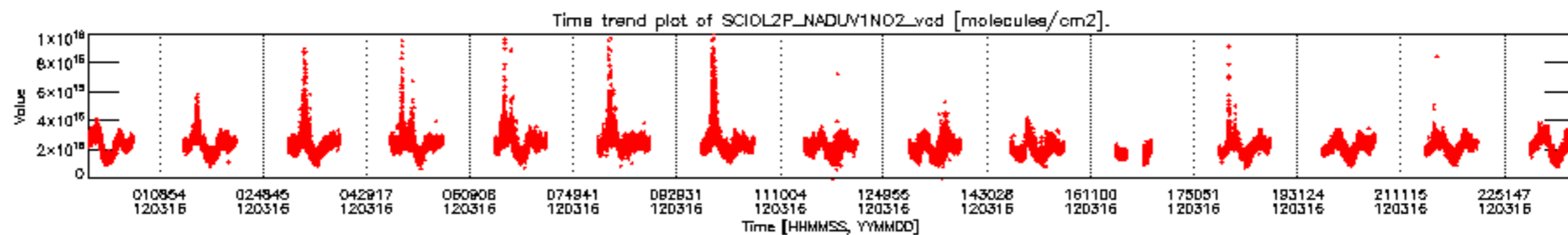


SCIOL2P_NADUV003_arnf_gr for 16MAR2012 00:00:00 to 17MAR2012 00:00:00

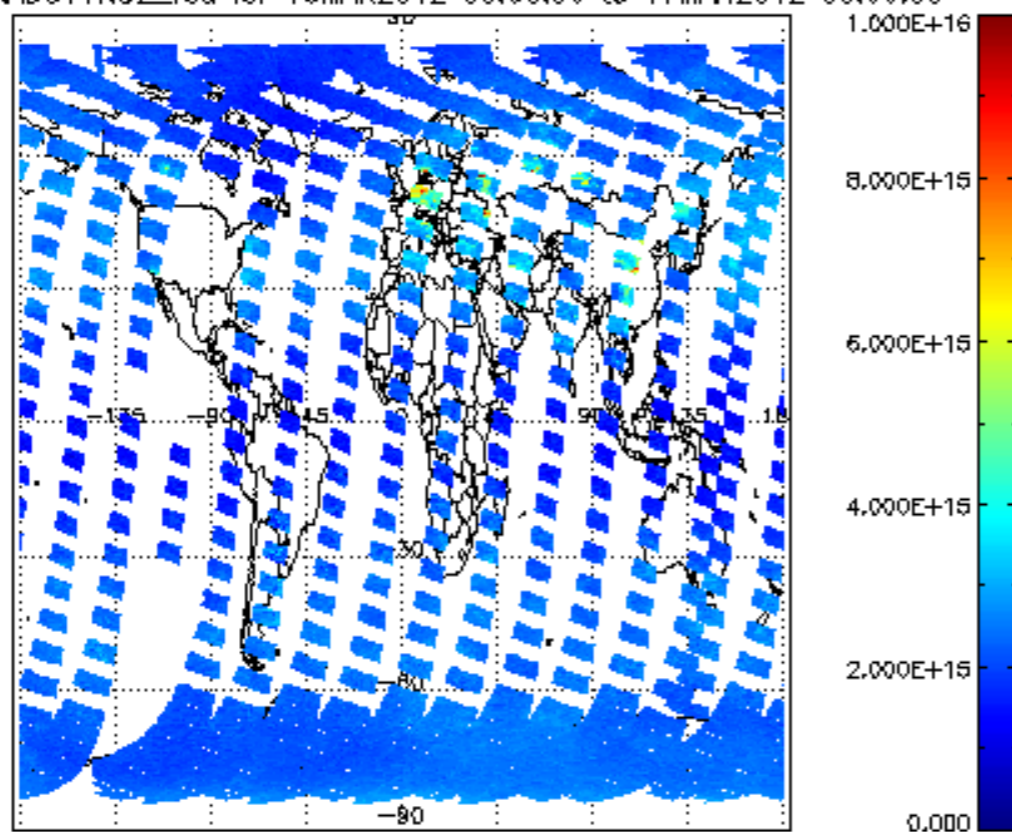


SCIOL2P_NADUV003_arnf_cl for 16MAR2012 00:00:00 to 17MAR2012 00:00:00

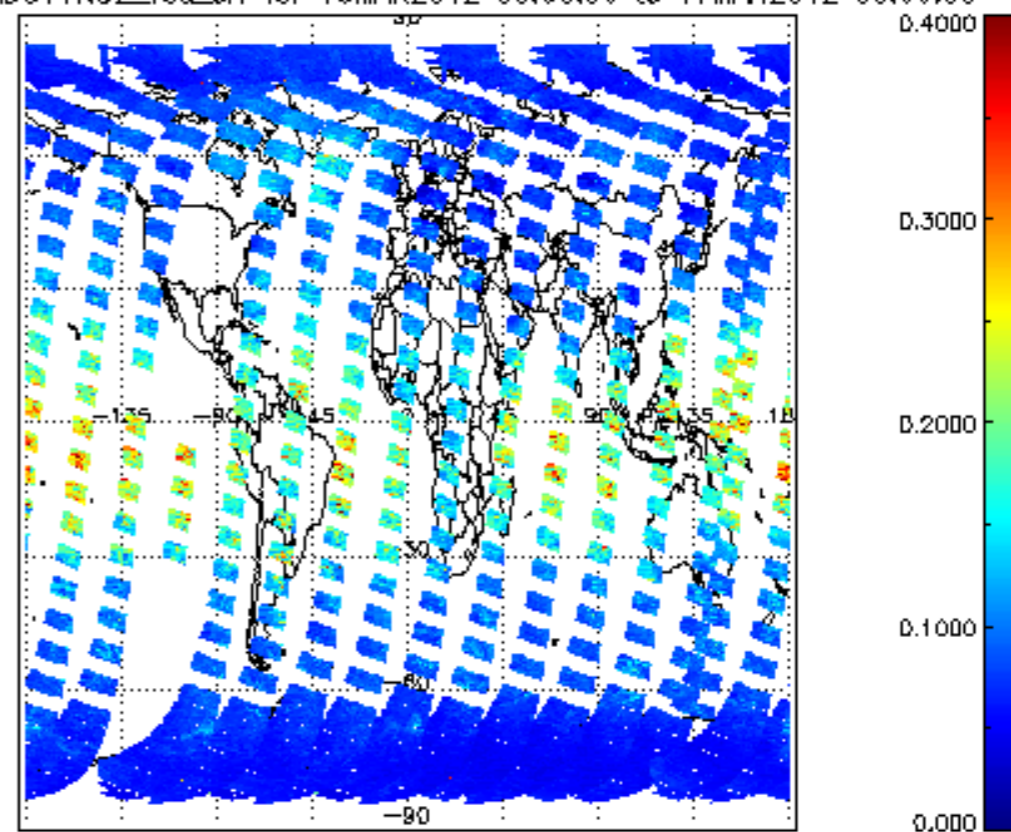




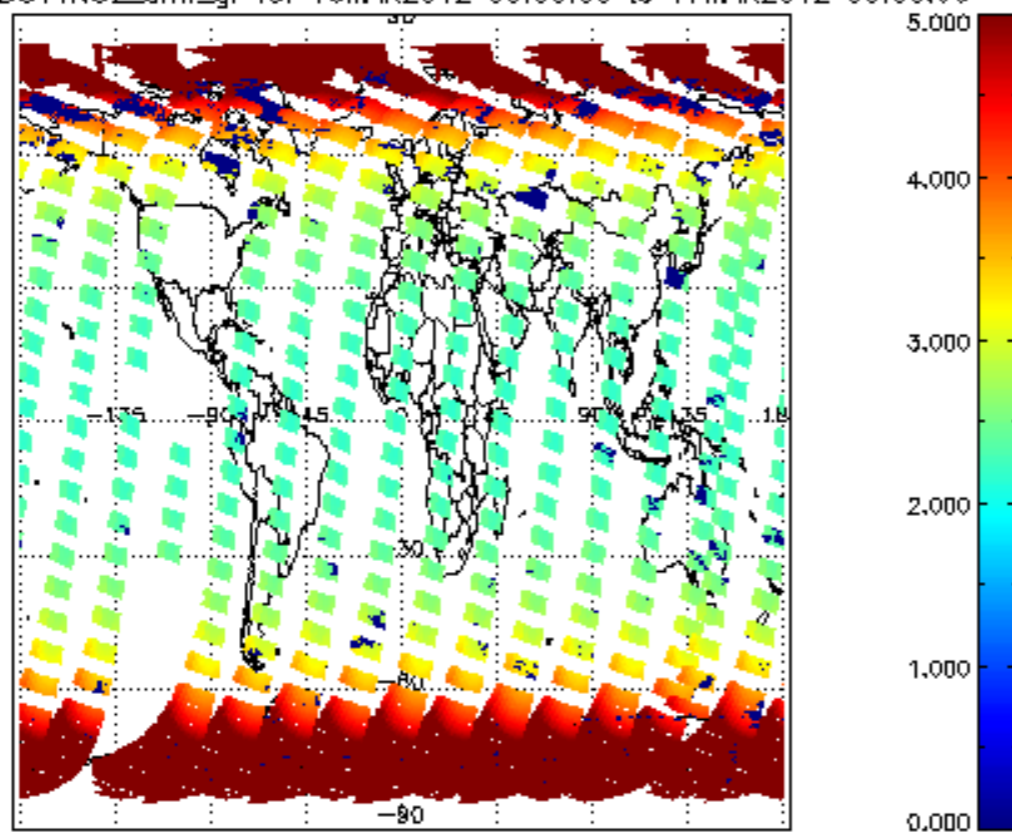
SCIOL2P_NADUV1NO2_vcd for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



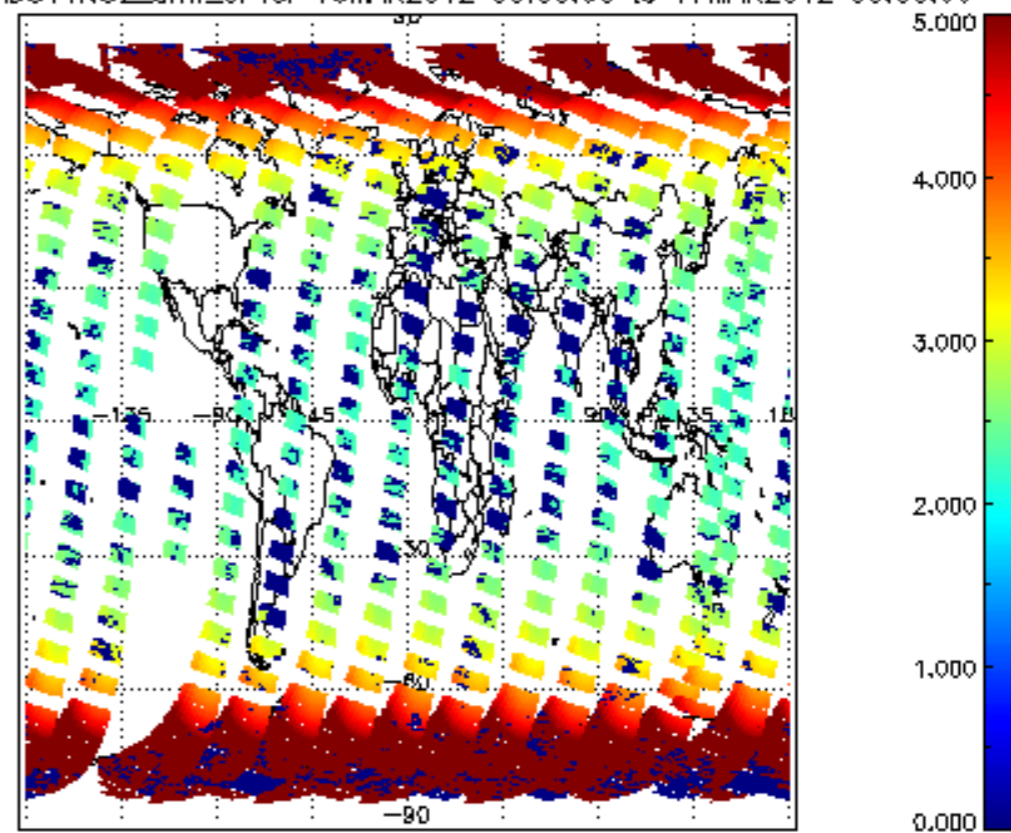
SCIOL2P_NADUV1NO2_vcd_err for 16MAR2012 00:00:00 to 17MAR2012 00:00:00

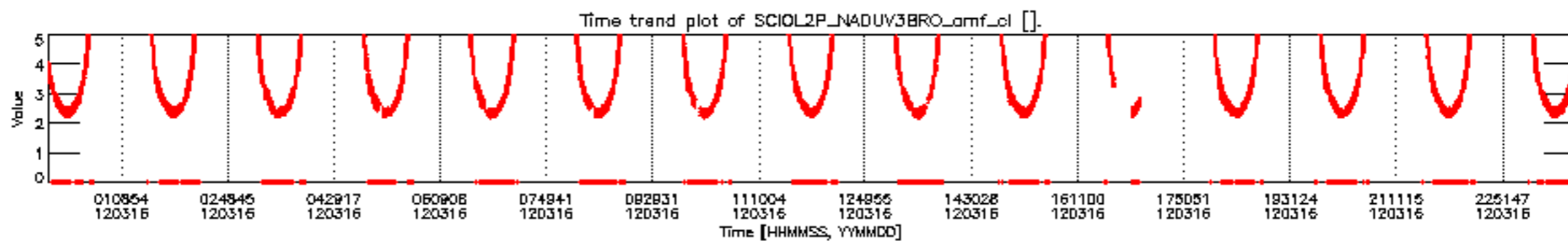
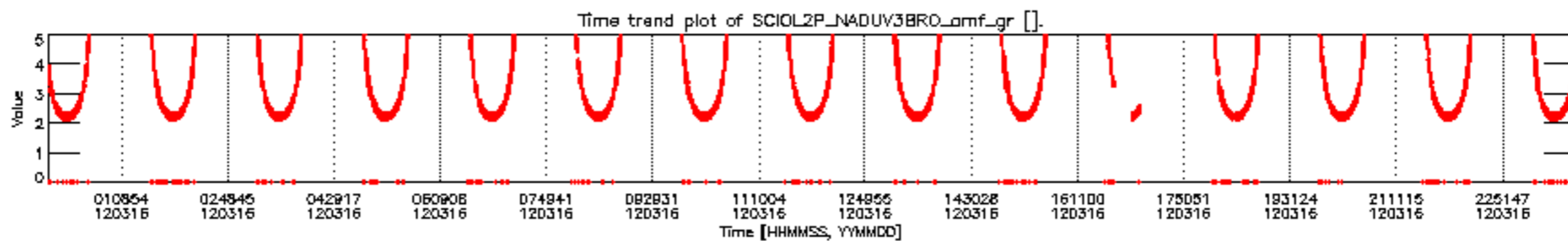
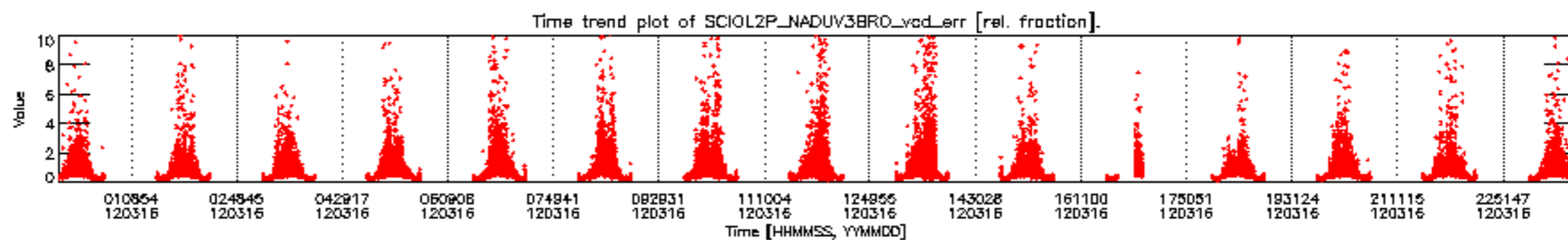
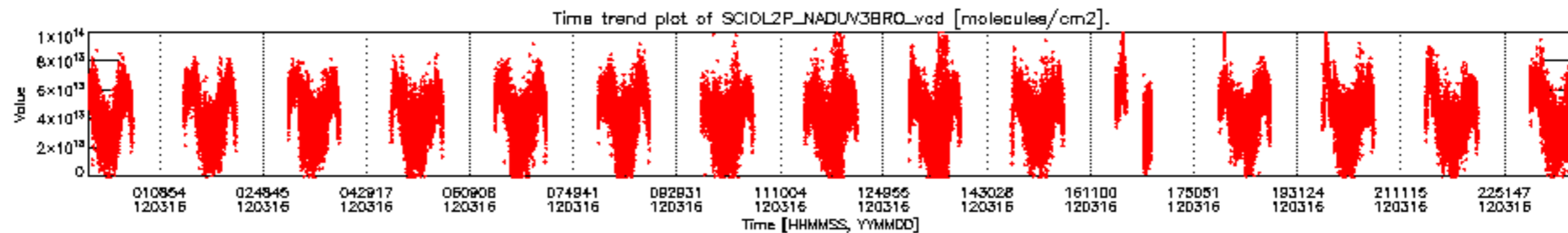


SCIOL2P_NADUV1NO2_amf_gr for 16MAR2012 00:00:00 to 17MAR2012 00:00:00

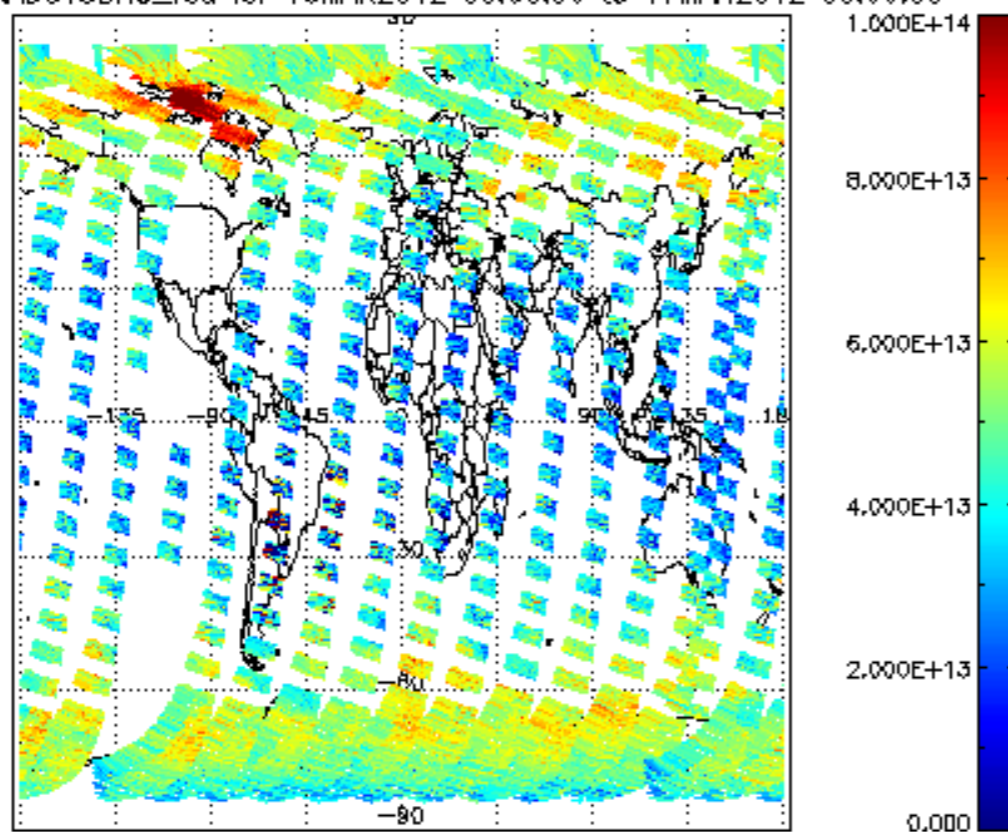


SCIOL2P_NADUV1NO2_amf_cl for 16MAR2012 00:00:00 to 17MAR2012 00:00:00

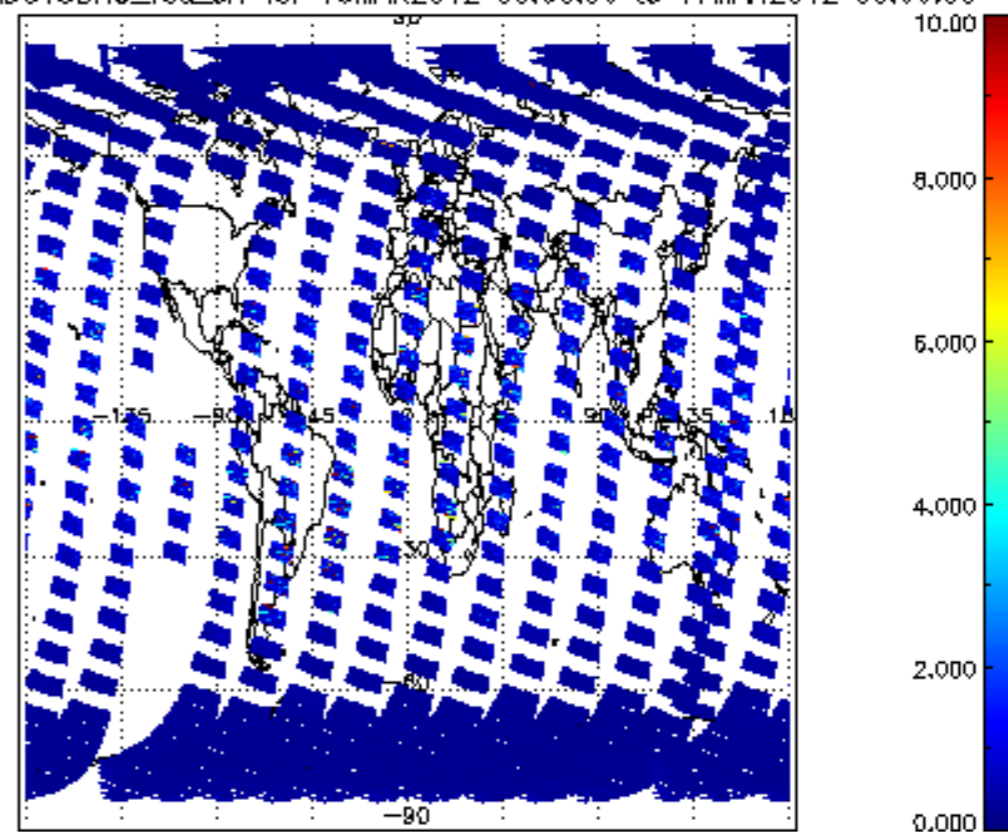




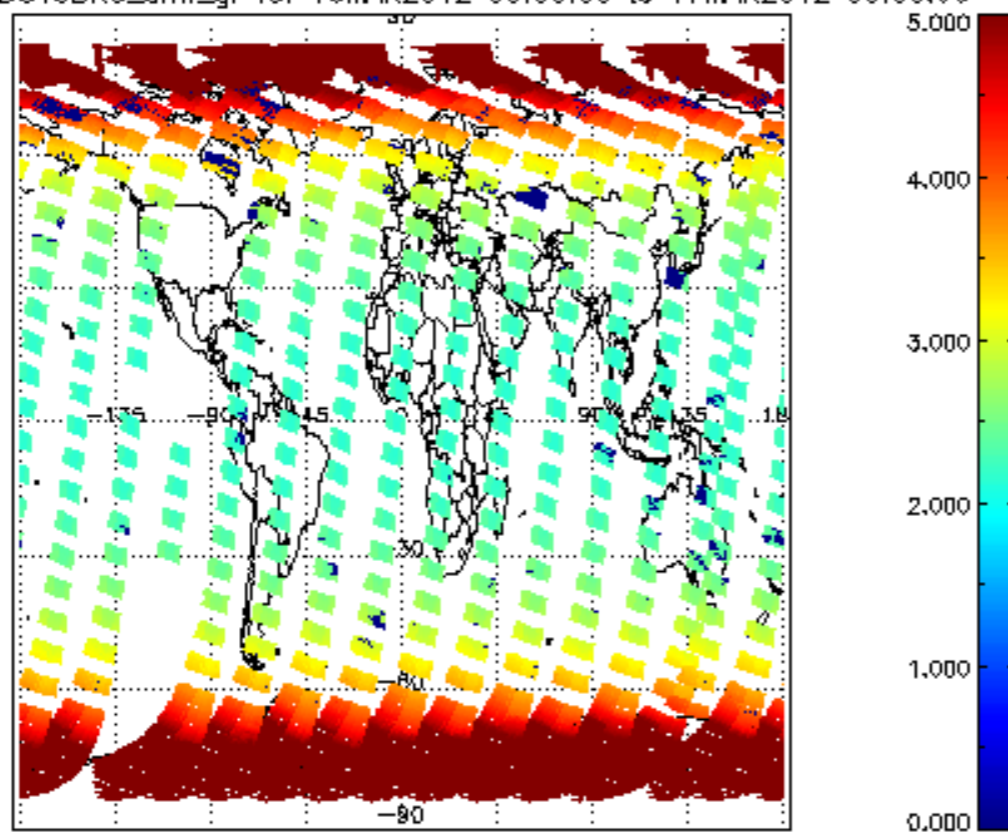
SCIOL2P_NADUV3BRO_vcd for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



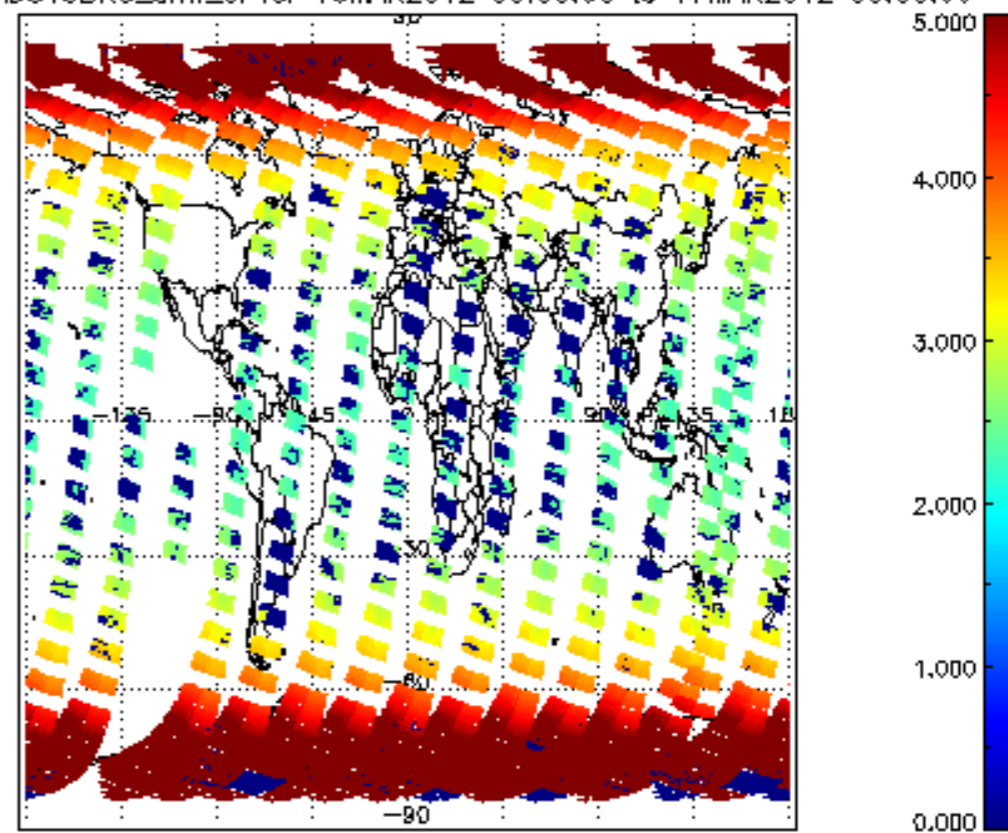
SCIOL2P_NADUV3BRO_vcd_err for 16MAR2012 00:00:00 to 17MAR2012 00:00:00

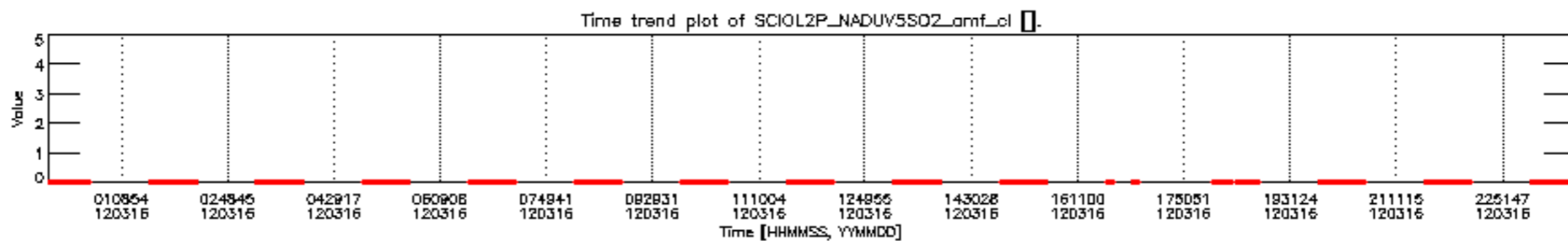
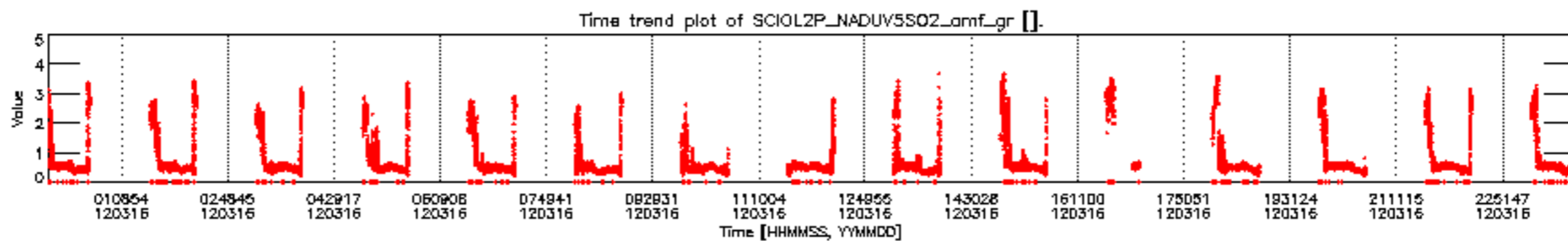
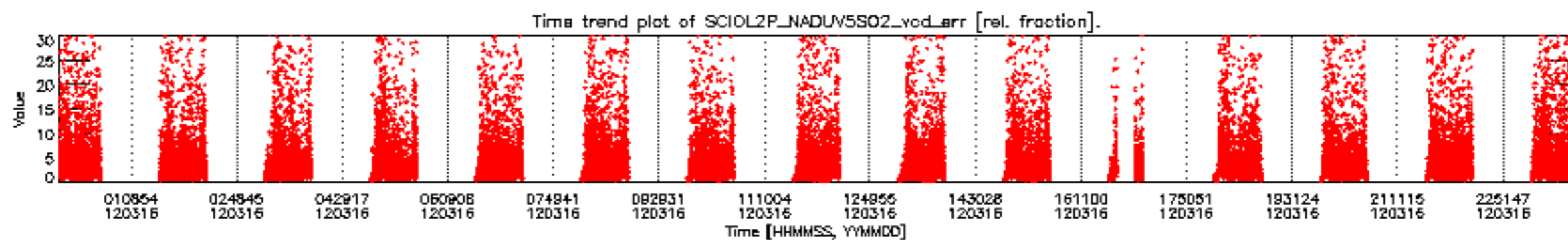
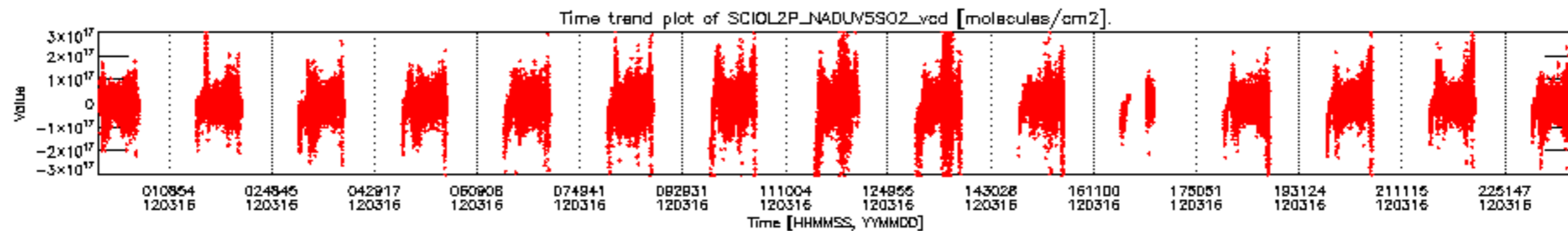


SCIOL2P_NADUV3BRO_arnf_gr for 16MAR2012 00:00:00 to 17MAR2012 00:00:00

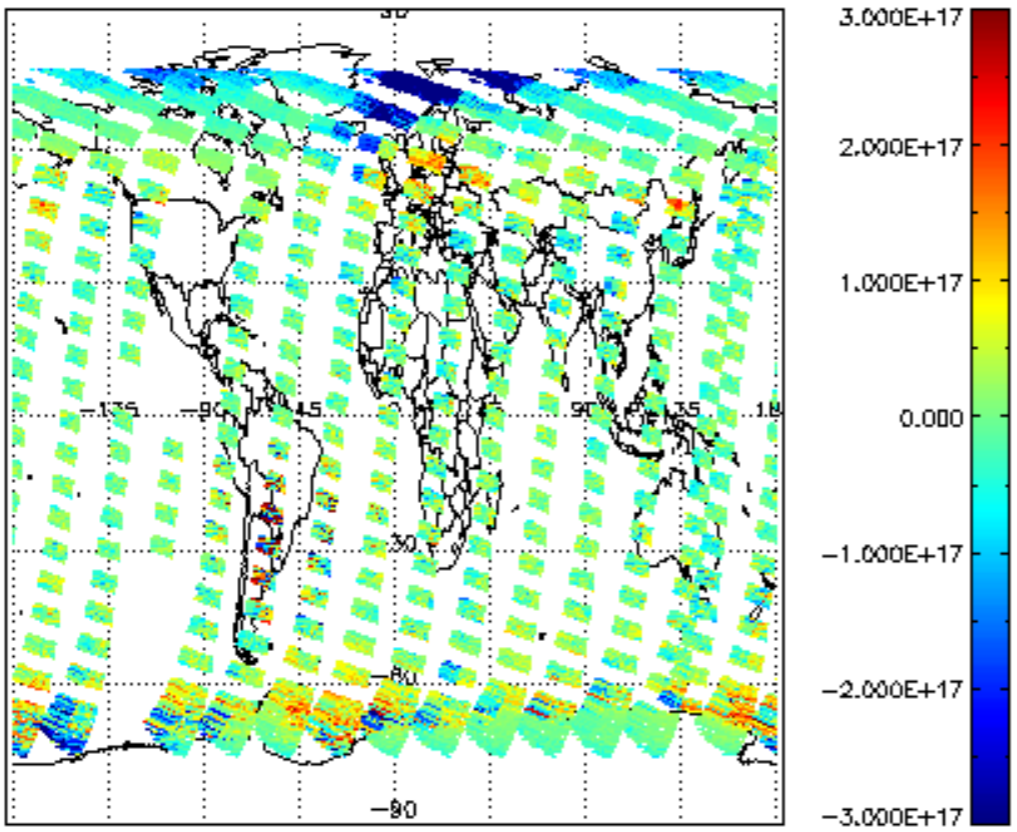


SCIOL2P_NADUV3BRO_arnf_cl for 16MAR2012 00:00:00 to 17MAR2012 00:00:00

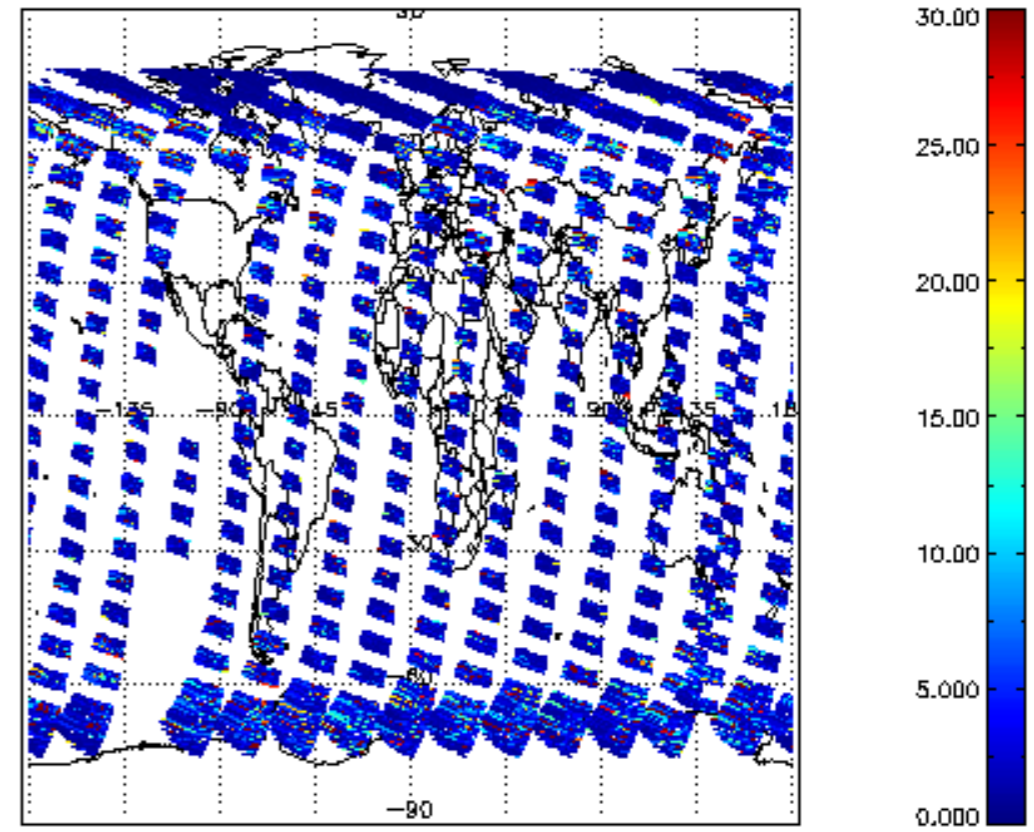




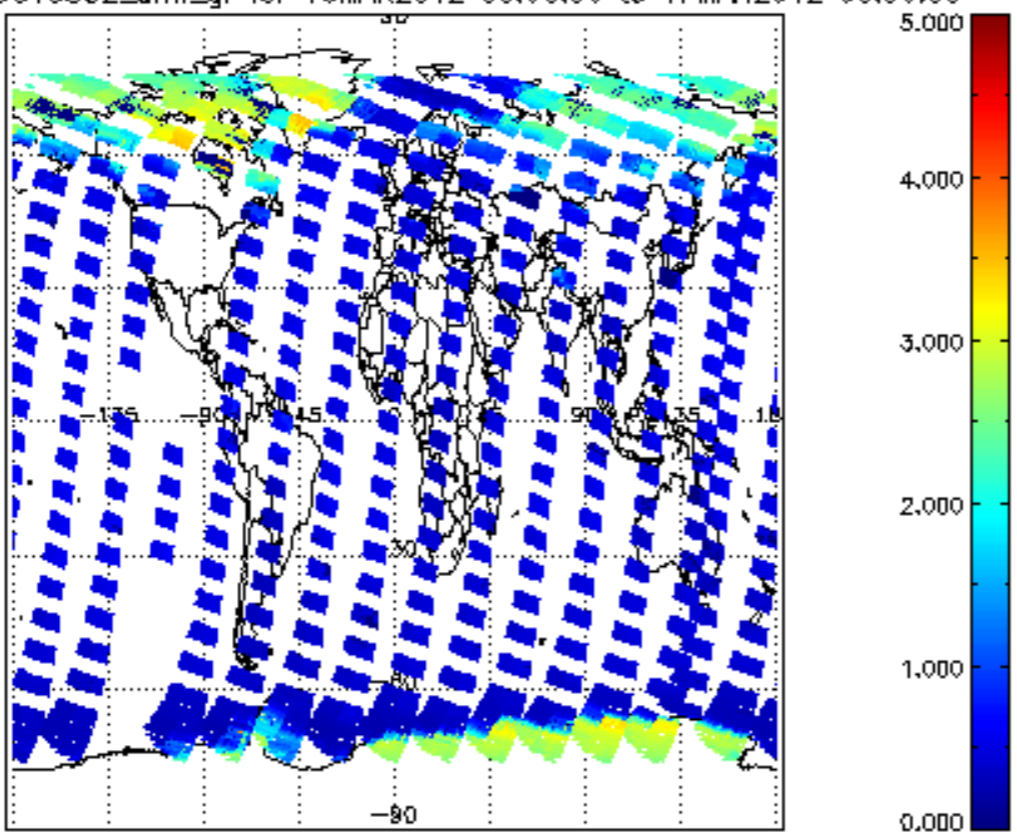
SCIOL2P_NADUV5S02_vcd for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



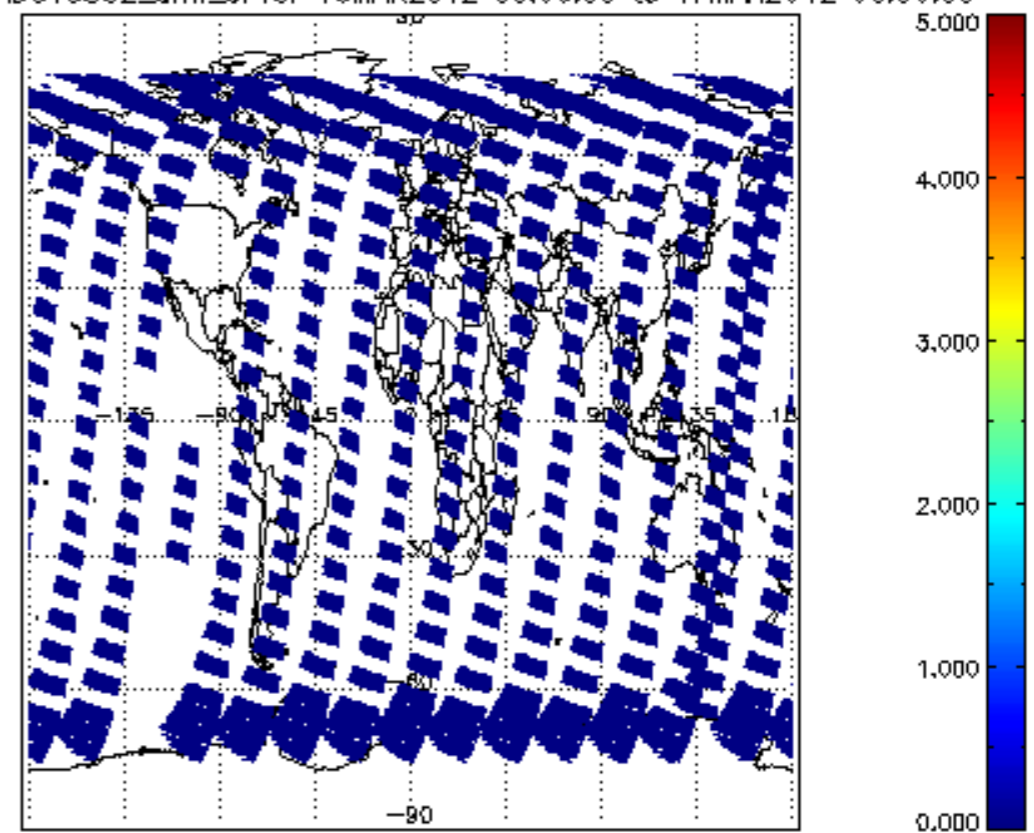
SCIOL2P_NADUV5S02_vcd_err for 16MAR2012 00:00:00 to 17MAR2012 00:00:00

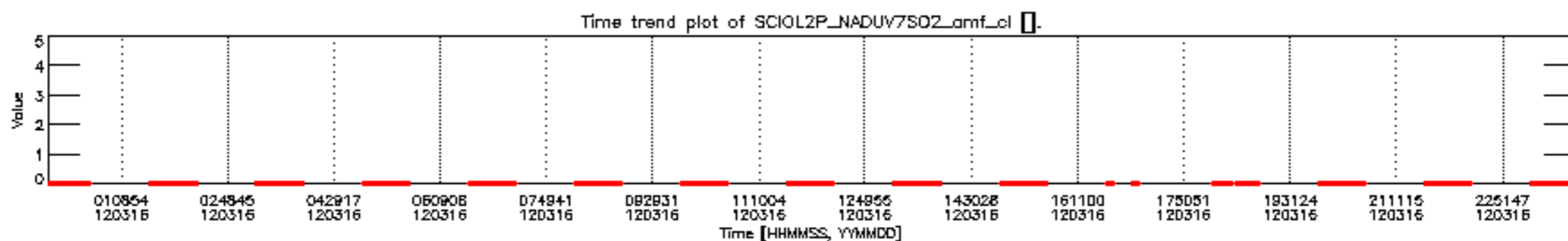
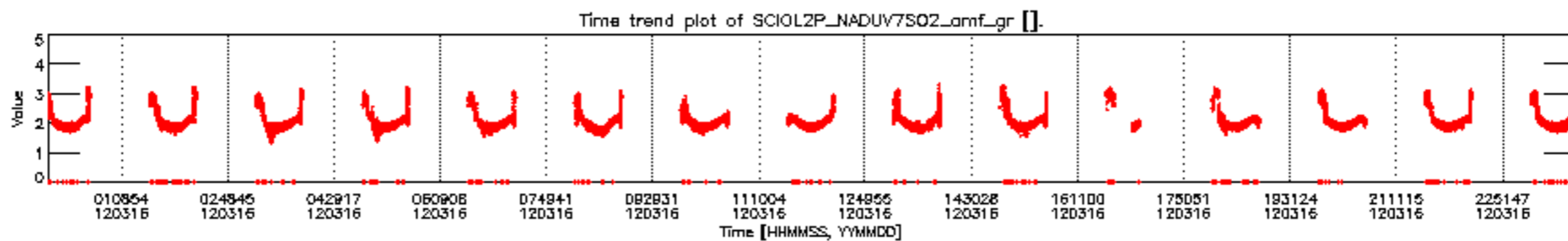
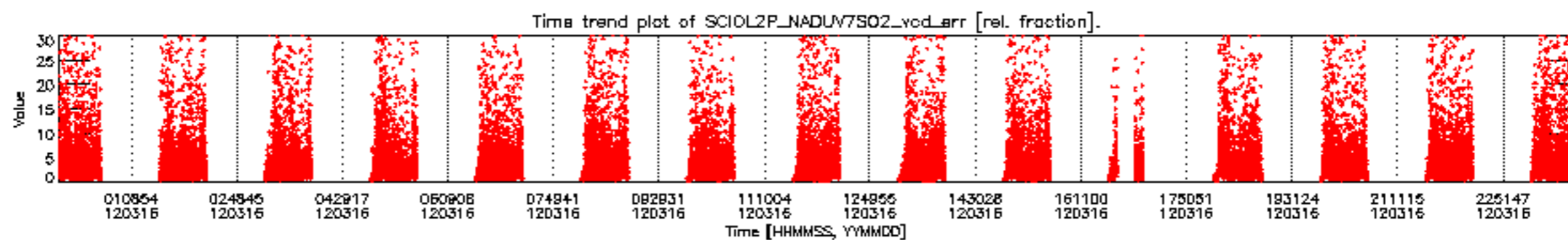
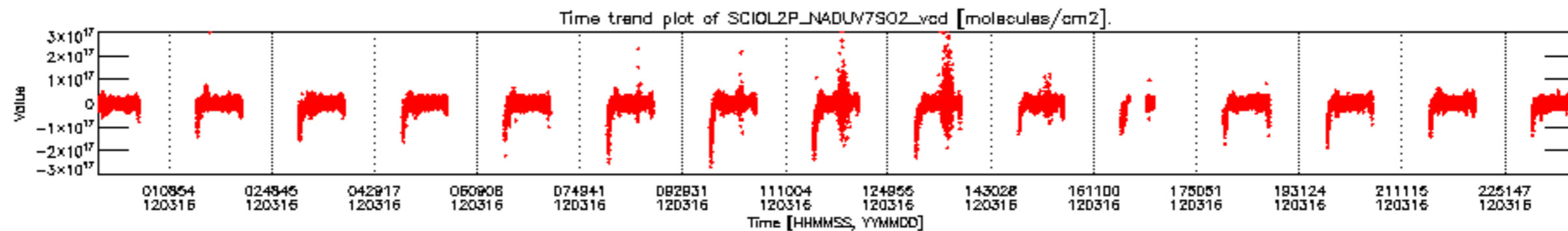


SCIOL2P_NADUV5S02_amf_gr for 16MAR2012 00:00:00 to 17MAR2012 00:00:00

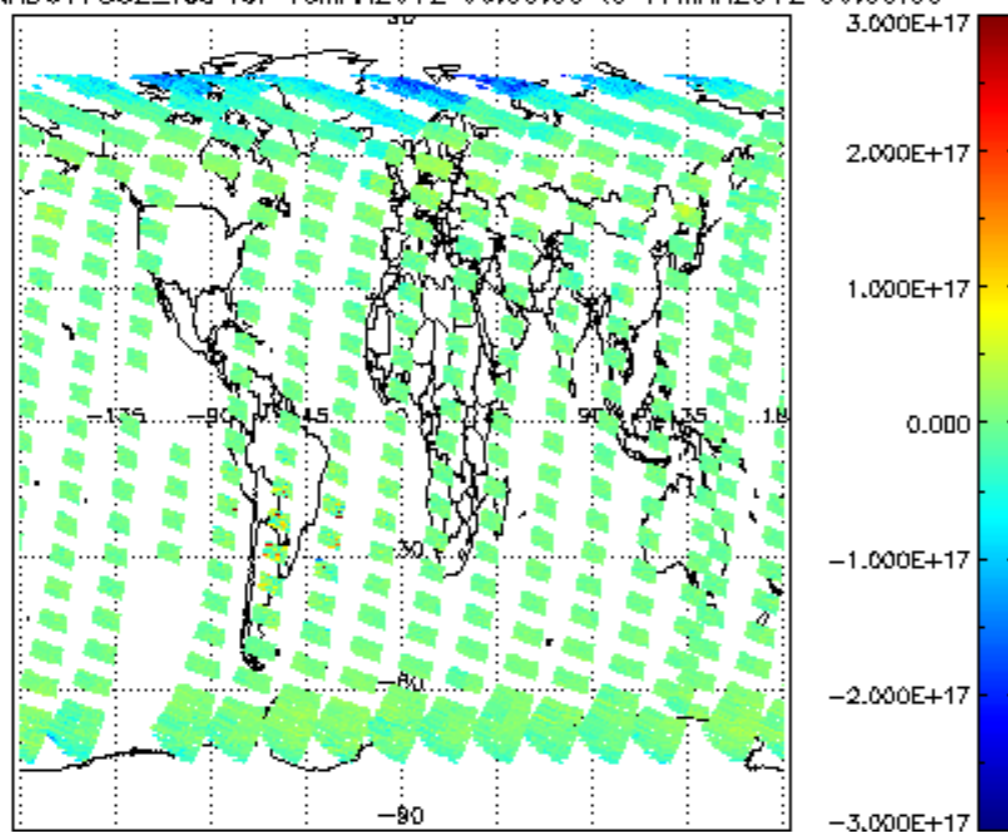


SCIOL2P_NADUV5S02_amf_cl for 16MAR2012 00:00:00 to 17MAR2012 00:00:00

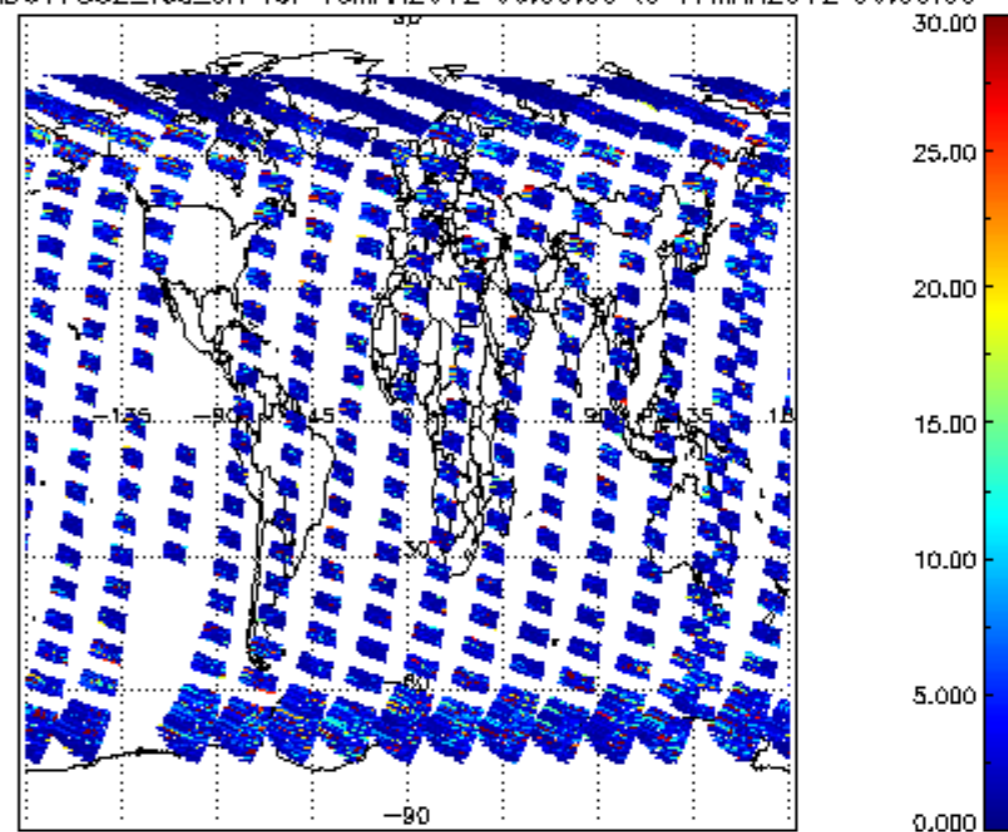




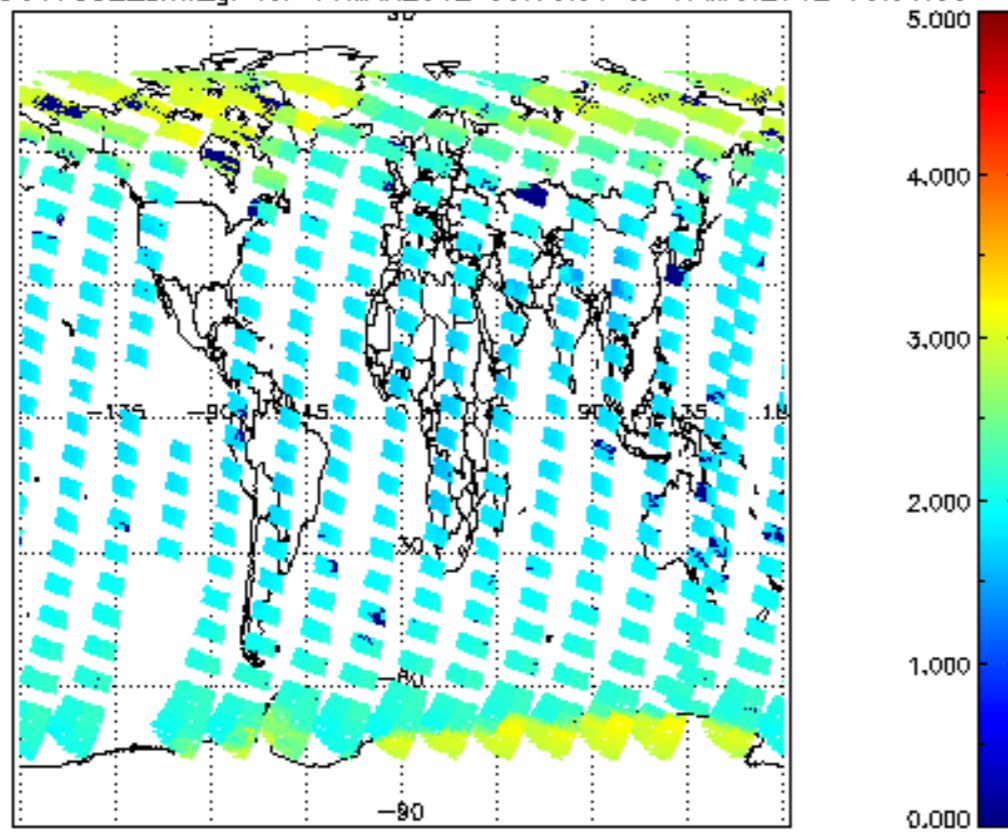
SCIOL2P_NADUV7S02_vcd for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



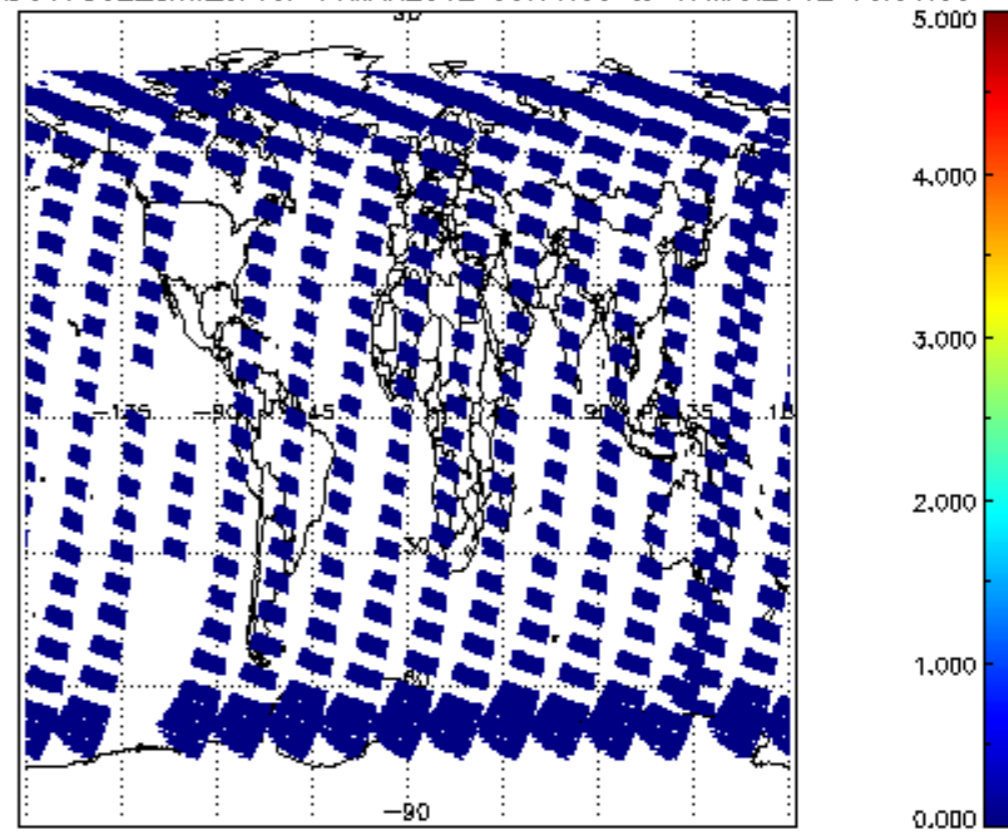
SCIOL2P_NADUV7S02_vcd_err for 16MAR2012 00:00:00 to 17MAR2012 00:00:00

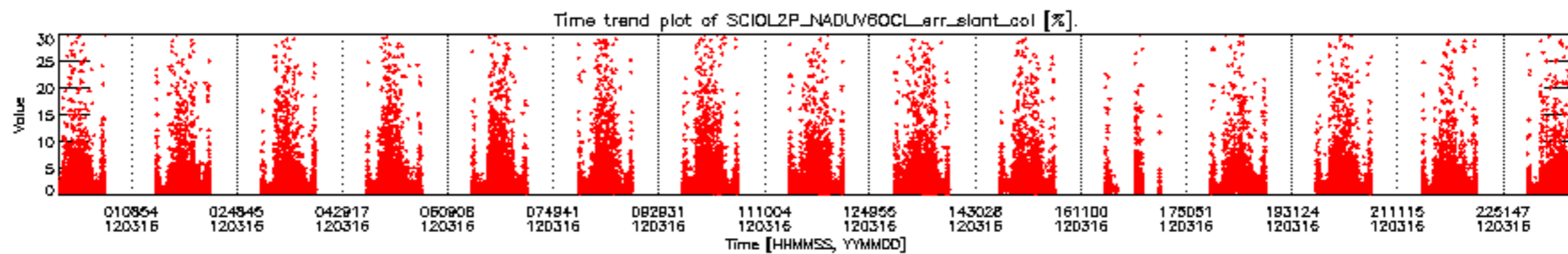
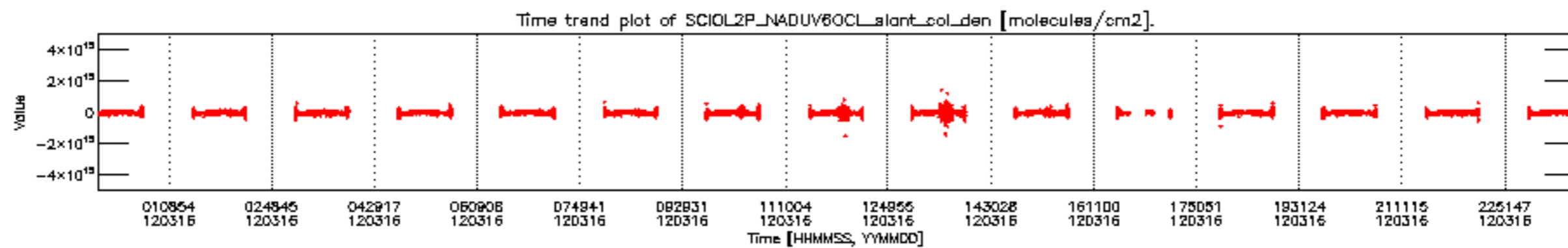


SCIOL2P_NADUV7S02_amf_gr for 16MAR2012 00:00:00 to 17MAR2012 00:00:00

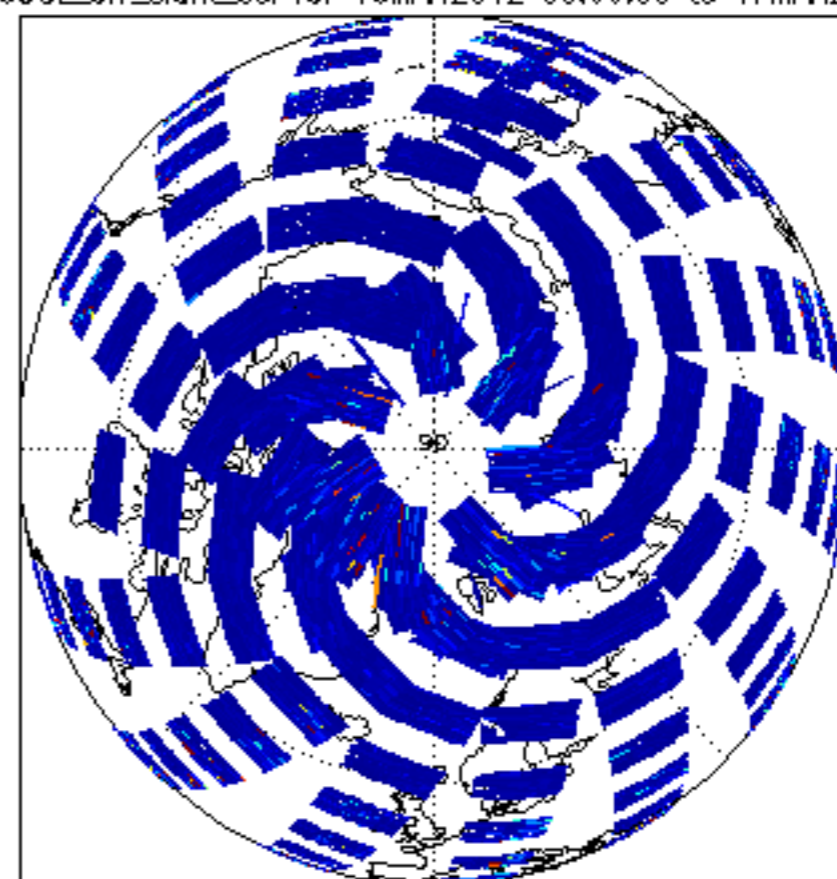
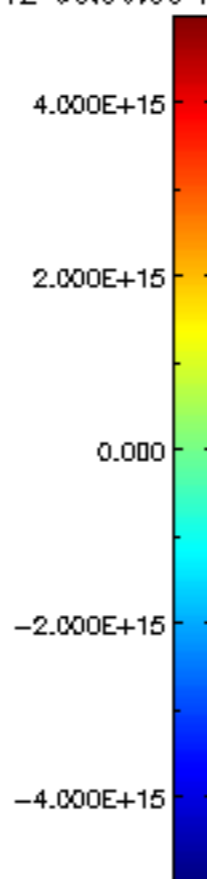
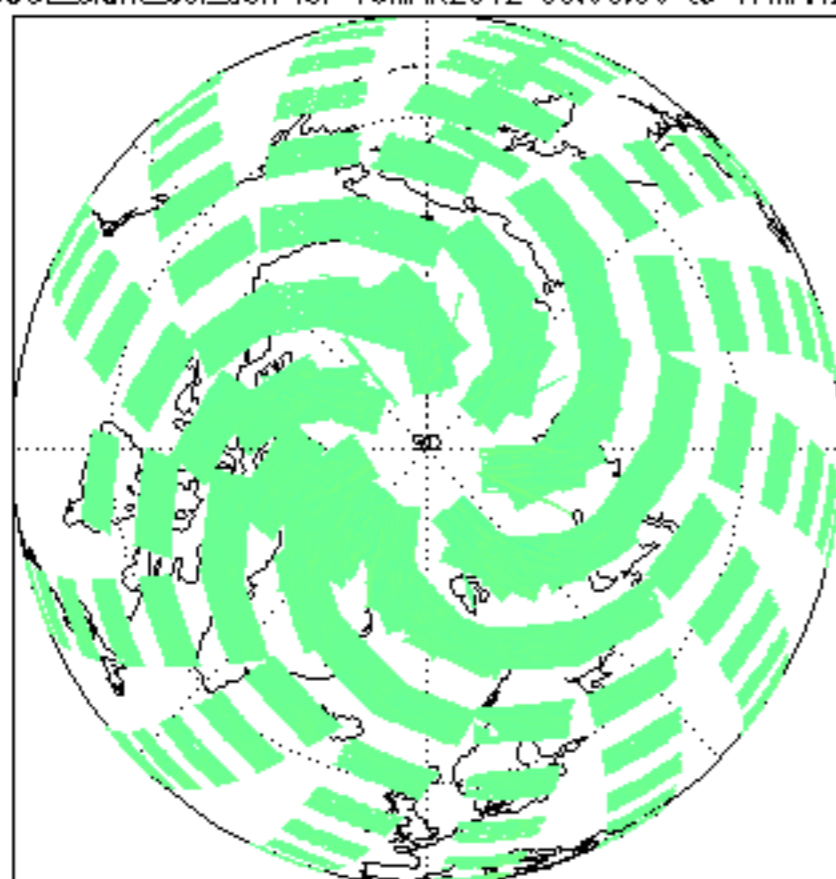


SCIOL2P_NADUV7S02_amf_cl for 16MAR2012 00:00:00 to 17MAR2012 00:00:00

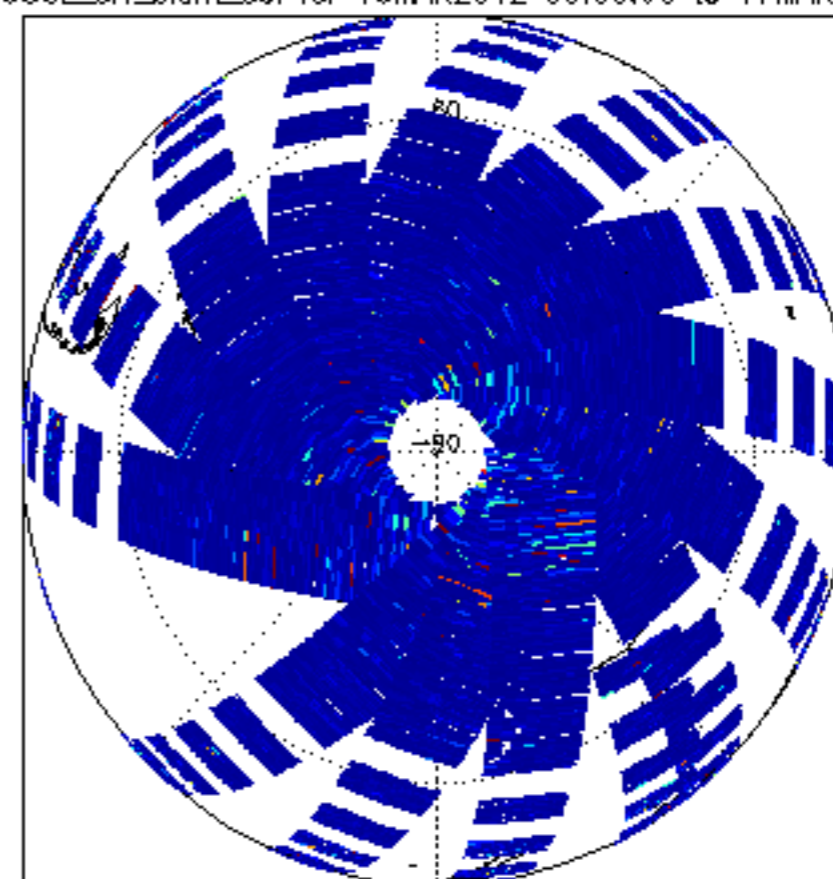
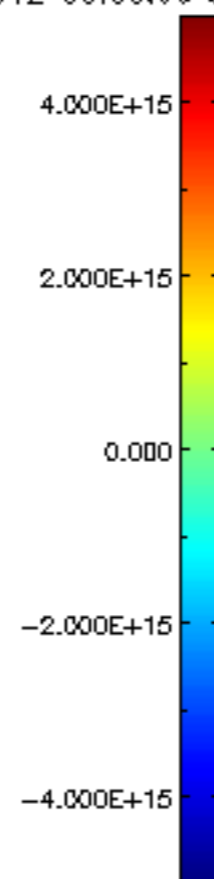
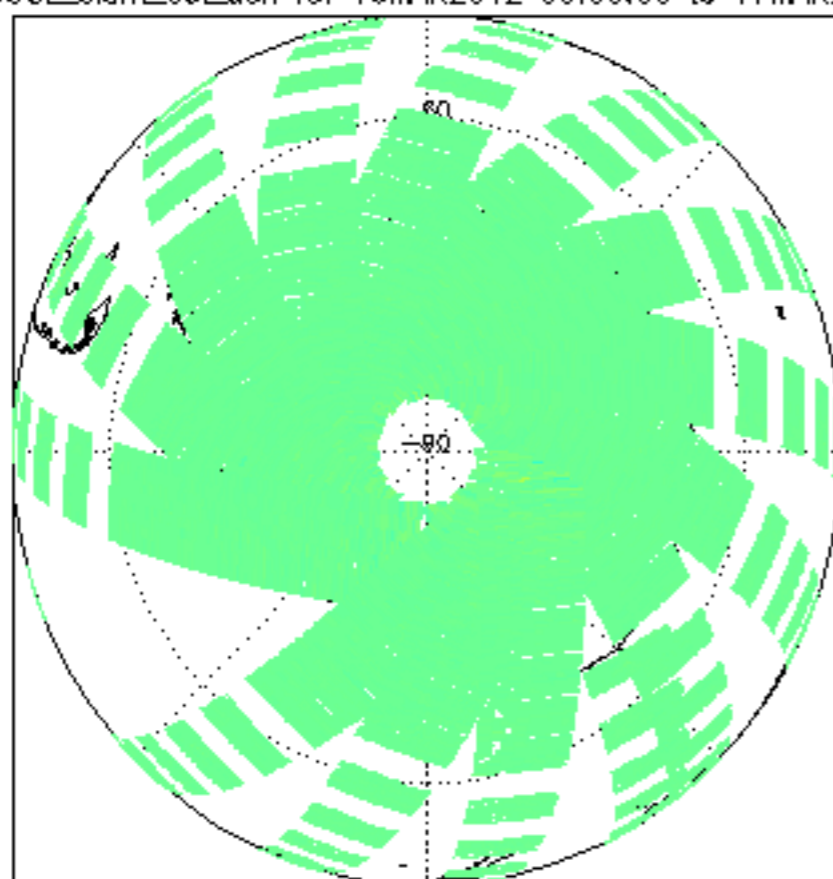


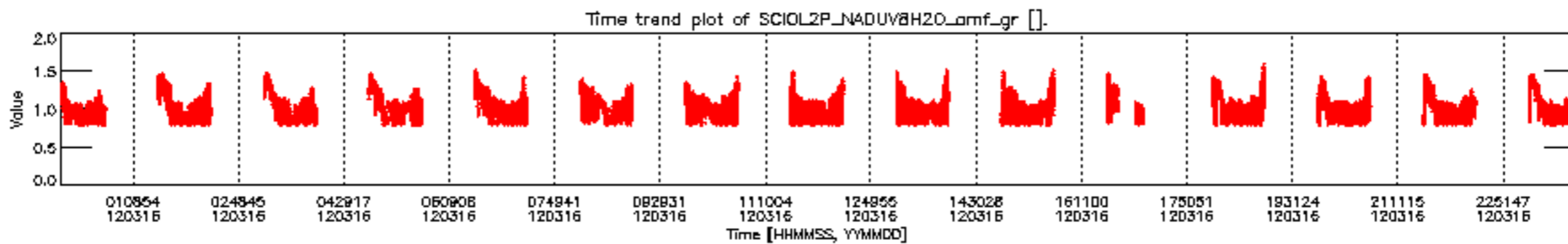
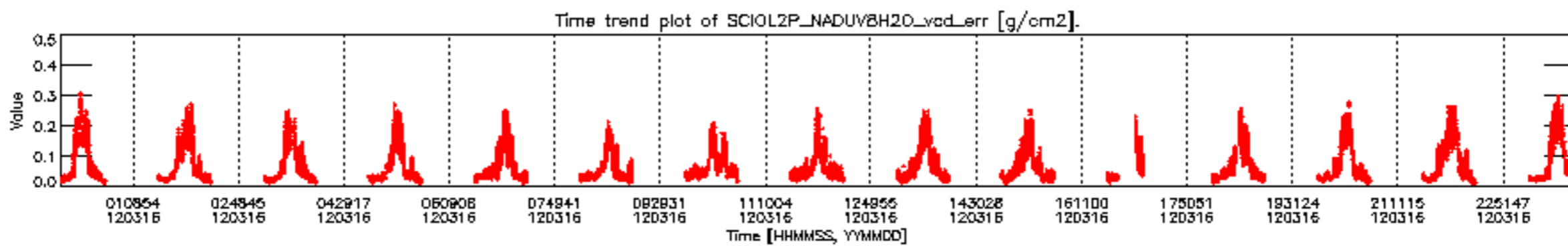
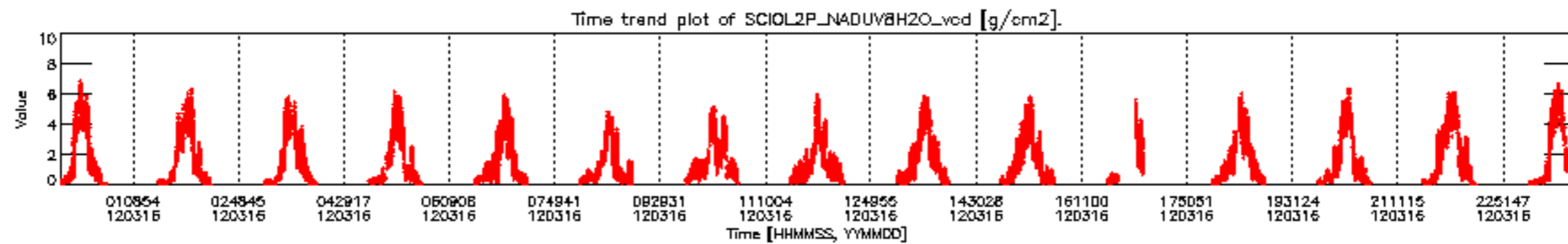


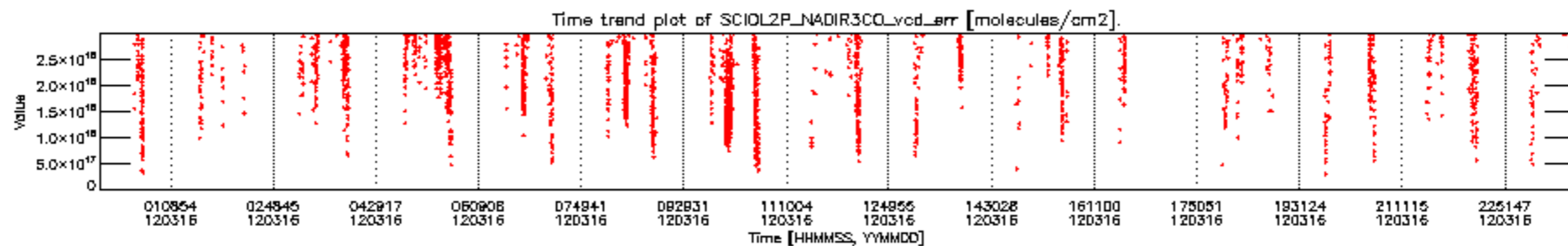
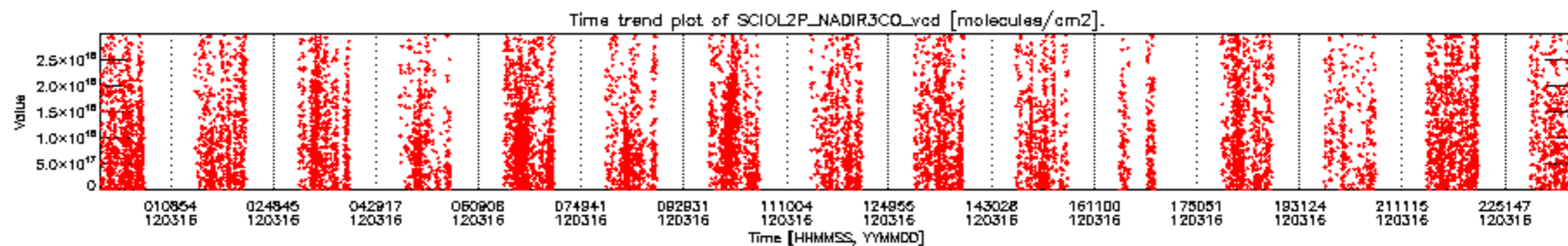
CIOL2P_NADUV6OCL_slant_col_den for 16MAR2012 00:00:00 to 17MAR2012 00:00:00 np; CIOL2P_NADUV6OCL_err_slant_col for 16MAR2012 00:00:00 to 17MAR2012 00:00:00 np



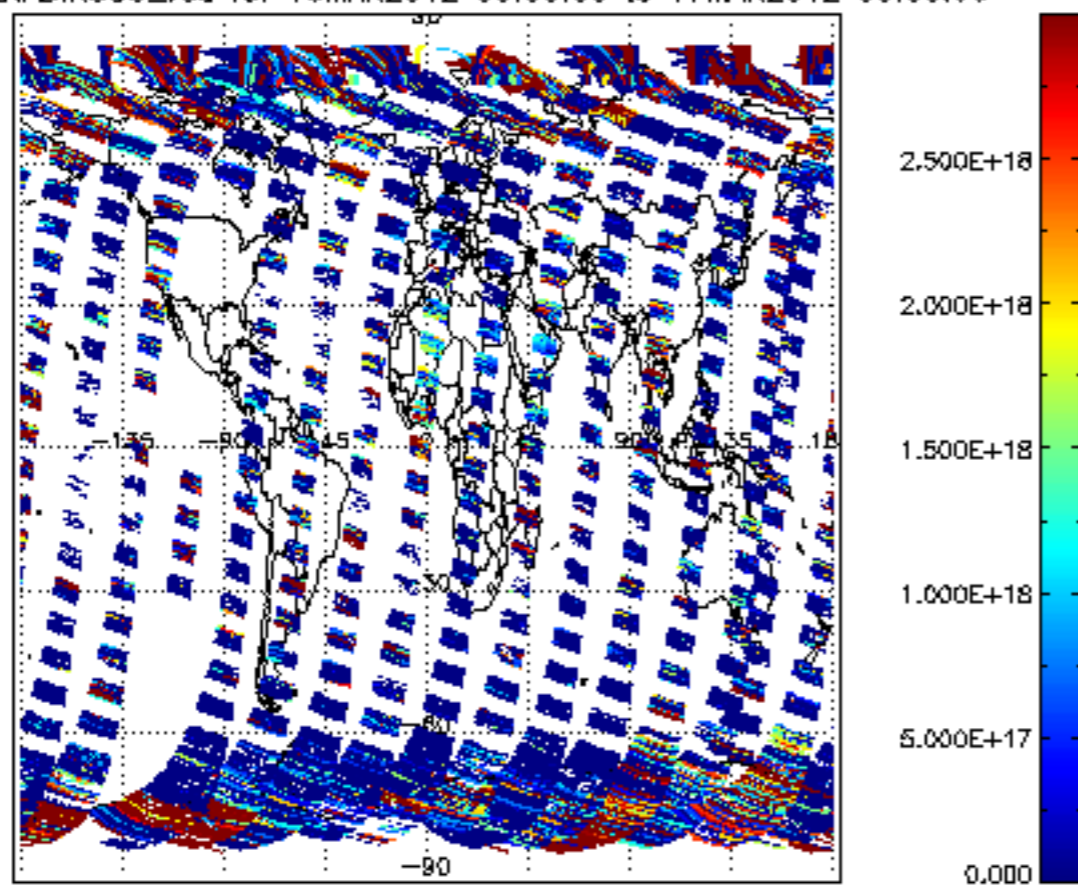
CIOL2P_NADUV6OCL_slant_colDen for 16MAR2012 00:00:00 to 17MAR2012 00:00:00 sp; CIOL2P_NADUV6OCL_err_slant_col for 16MAR2012 00:00:00 to 17MAR2012 00:00:00 sp



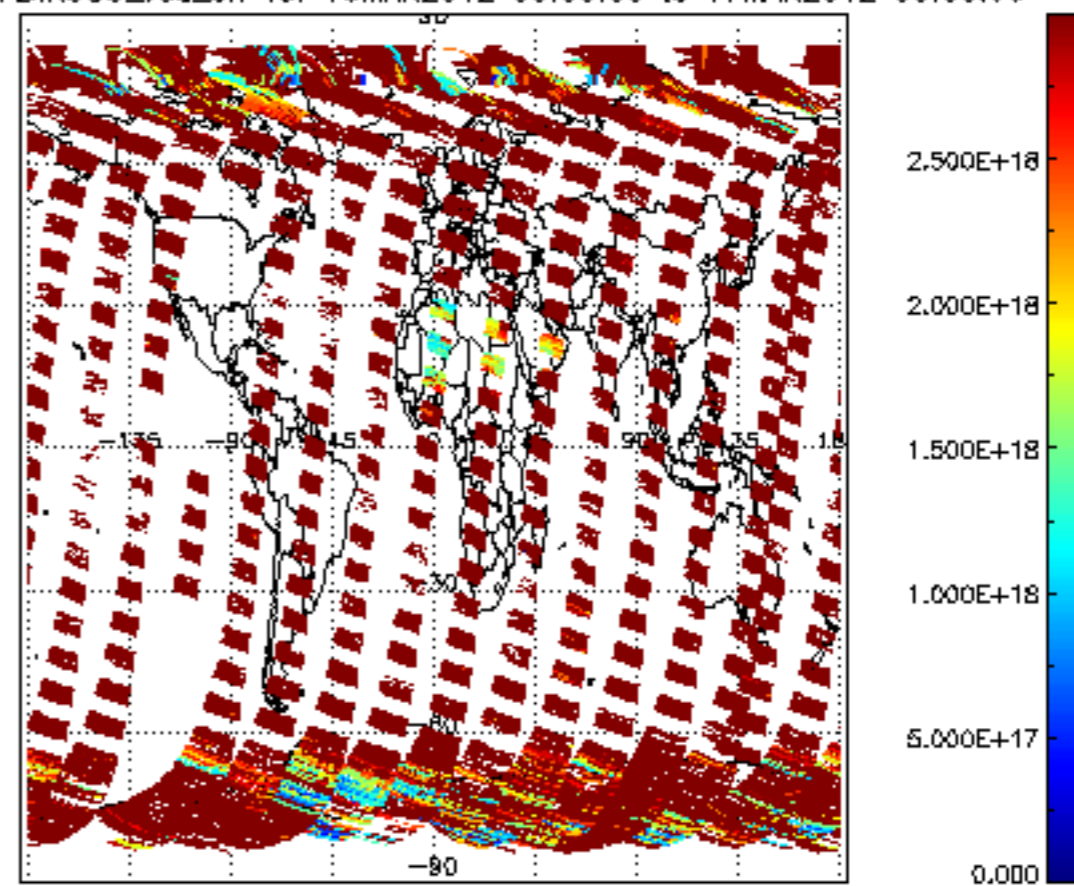




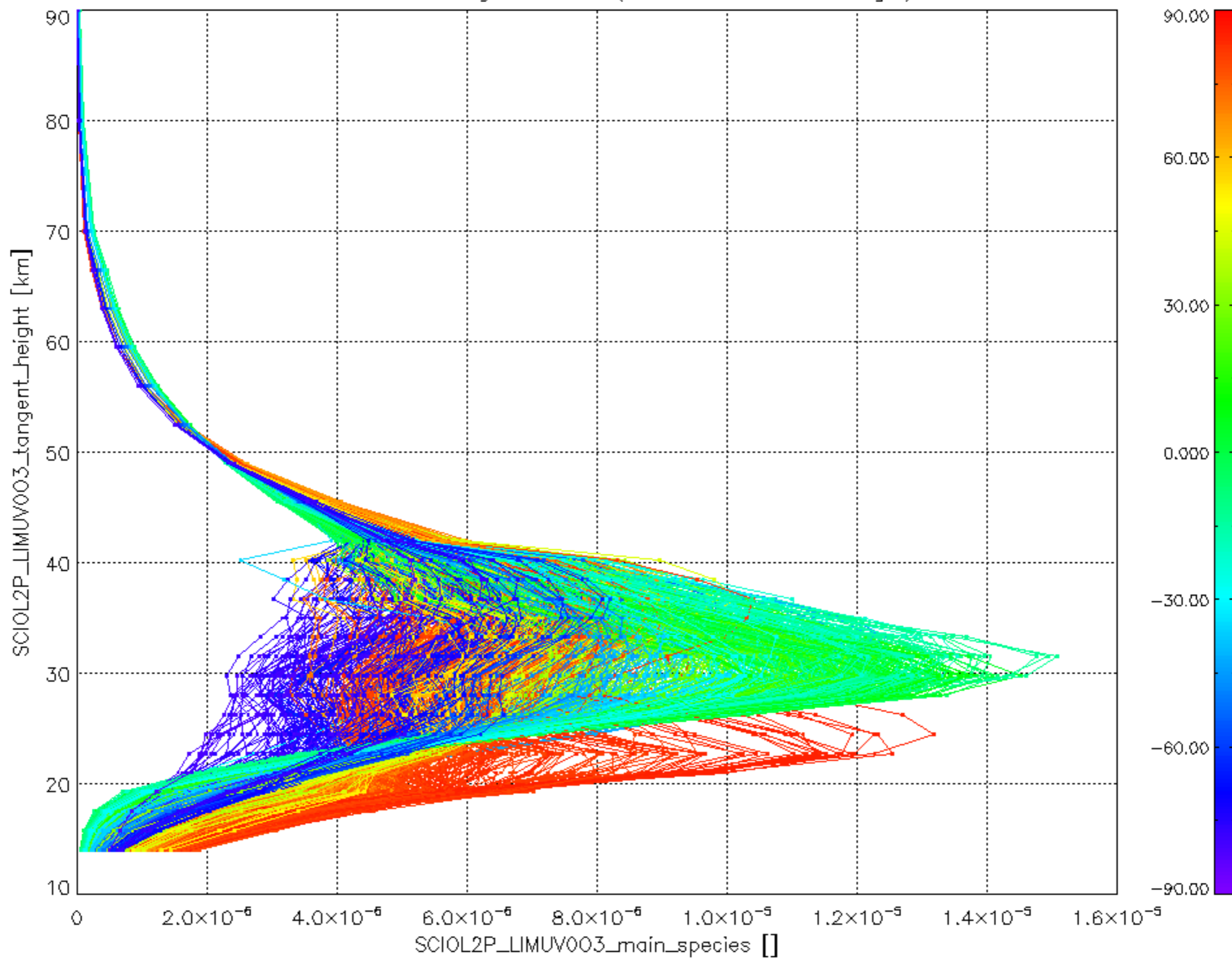
SCIOL2P_NADIR3CO_vcd for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



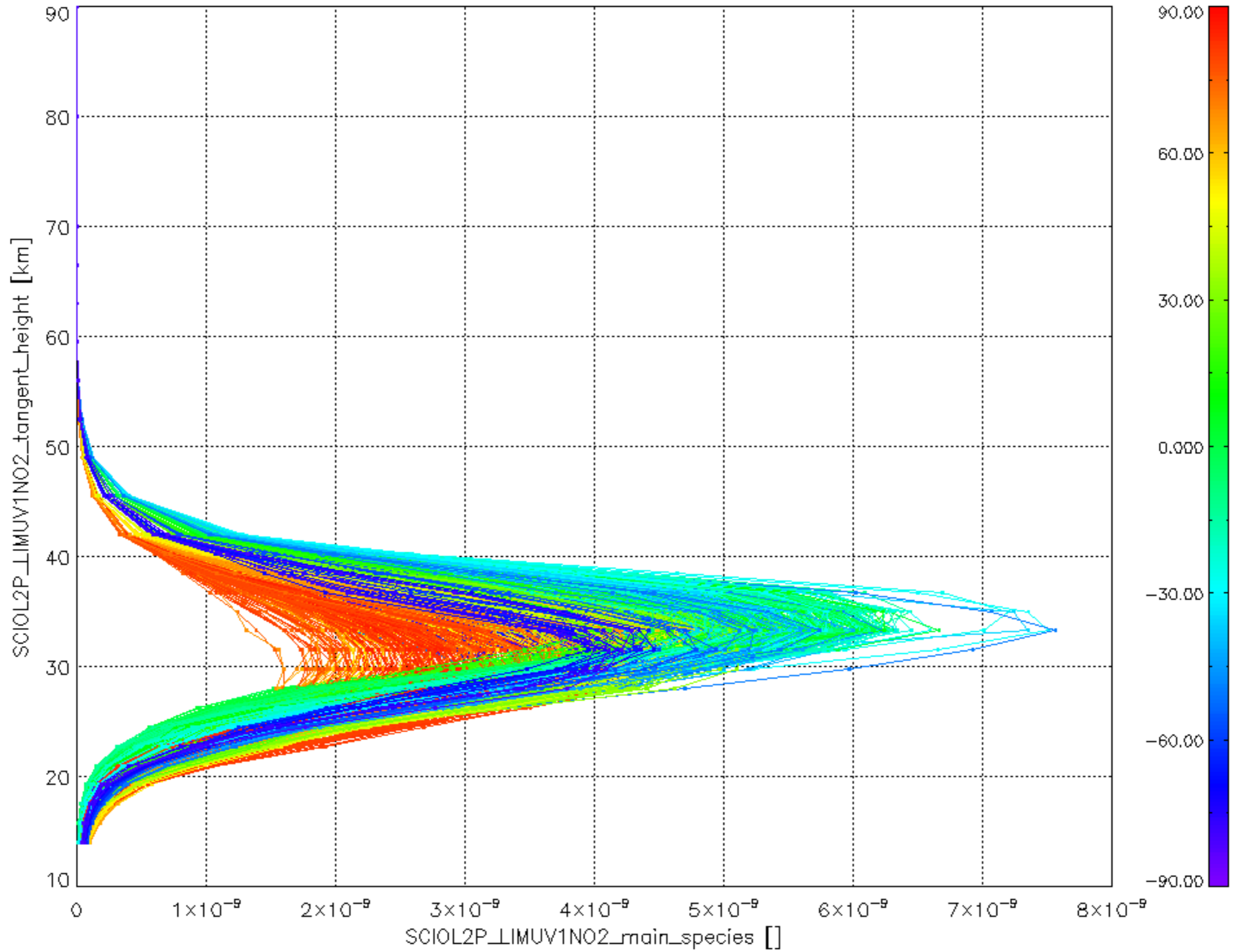
SCIOL2P_NADIR3CO_vcd_err for 16MAR2012 00:00:00 to 17MAR2012 00:00:00



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).

