

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	24MAR2012 03:27:27
Data source version	SCIA-OL/5.02-W
Processing scope for products	11MAR2012 00:00:00 to 12MAR2012 00:00:00
Start time of first product within scope	10MAR2012 23:29:13
Stop time of last product within scope	11MAR2012 23:51:12
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__2PWDPA20120310_232913_000035303112_00289_52458_3937.N1	10MAR2012 23:29:13	11MAR2012 00:28:03	0	GOOD
1	SCI_OL__2PWDPA20120311_010926_000035163112_00290_52459_3942.N1	11MAR2012 01:09:26	11MAR2012 02:08:02	0	GOOD
2	SCI_OL__2PWDPA20120311_024939_000035303112_00291_52460_3938.N1	11MAR2012 02:49:39	11MAR2012 03:48:30	0	GOOD
3	SCI_OL__2PWDPA20120311_042953_000035163112_00292_52461_3939.N1	11MAR2012 04:29:53	11MAR2012 05:28:29	0	GOOD
4	SCI_OL__2PWDPA20120311_061007_000035303112_00293_52462_3940.N1	11MAR2012 06:10:07	11MAR2012 07:08:57	0	GOOD

5	SCI_OL__2PWDP	A20120311_075020_000035163112_00294_52463_3943.N1	11MAR2012 07:50:20	11MAR2012 08:48:56	0	GOOD
6	SCI_OL__2PWDP	A20120311_093033_000035303112_00295_52464_3944.N1	11MAR2012 09:30:33	11MAR2012 10:29:24	0	GOOD
7	SCI_OL__2PWDP	A20120311_111047_000035163112_00296_52465_3945.N1	11MAR2012 11:10:47	11MAR2012 12:09:23	0	GOOD
8	SCI_OL__2PWDP	A20120311_125100_000035303112_00297_52466_3946.N1	11MAR2012 12:51:00	11MAR2012 13:49:51	0	GOOD
9	SCI_OL__2PWDP	A20120311_143114_000035163112_00298_52467_3947.N1	11MAR2012 14:31:14	11MAR2012 15:29:50	0	GOOD
10	SCI_OL__2PWDP	A20120311_161127_000035303112_00299_52468_3948.N1	11MAR2012 16:11:27	11MAR2012 17:10:18	0	GOOD
11	SCI_OL__2PWDP	A20120311_175242_000034843112_00300_52469_3949.N1	11MAR2012 17:52:42	11MAR2012 18:50:46	0	GOOD
12	SCI_OL__2PWDP	A20120311_193212_000035303112_00301_52470_3950.N1	11MAR2012 19:32:12	11MAR2012 20:31:02	0	GOOD
13	SCI_OL__2PWDP	A20120311_211208_000035163112_00302_52471_3951.N1	11MAR2012 21:12:08	11MAR2012 22:10:44	0	GOOD
14	SCI_OL__2PWDP	A20120311_225221_000035303112_00303_52472_3952.N1	11MAR2012 22:52:21	11MAR2012 23:51:12	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: 161980

Total number of cloud data DSRs with good quality flag (=0): 161980 (100.0 %)

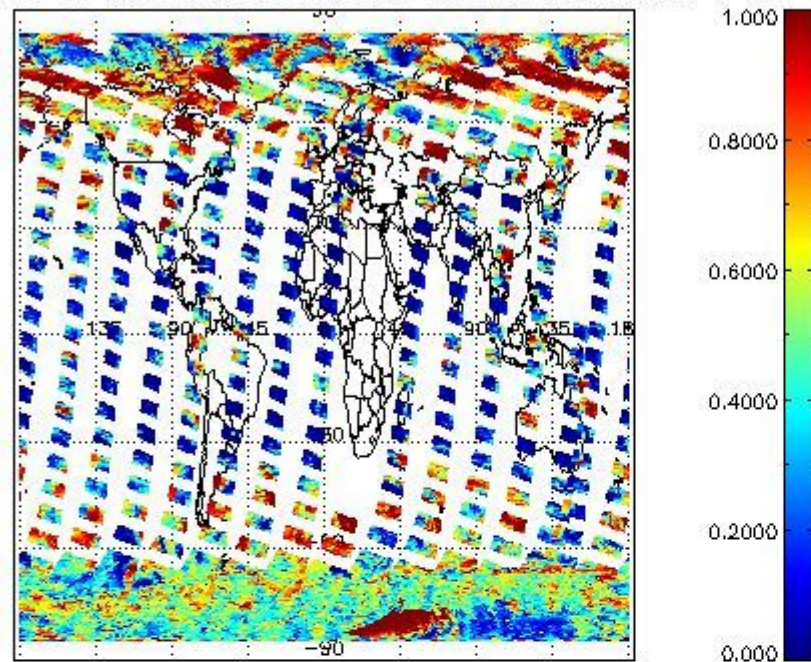
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	161980	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	161980	0.16453	0.12500	0.12500	0.25000	0.058125	s
CL_FRAC	161980	0.48113	0.46733	0.0000	1.0000	0.32659	
CL_FRAC_ERR	161980	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	161980	5.2648	4.0000	4.0000	8.0000	1.8600	
PMD_READ_CL[0]	161980	0.69220	0.0000	0.0000	8.0000	1.5594	-
PMD_READ_CL[1]	161980	1.0652	0.0000	0.0000	8.0000	2.3649	-
CL_TOP_HEIGHT	130588	3.6004	2.0959	0.0000	17.000	3.8097	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	130588	60.629	65.647	0.0000	101.00	40.536	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	161980	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	161980	11001011	11000100	11000000	11100000	3393.4	
AERO_ABSO_IND	161980	0.078733	0.0000	0.0000	3.8586	0.26758	
AERO_IND_DIAG	161980	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	161980	01010011	00000000	00000000	11000000	24375.	

Time and geolocation plots:

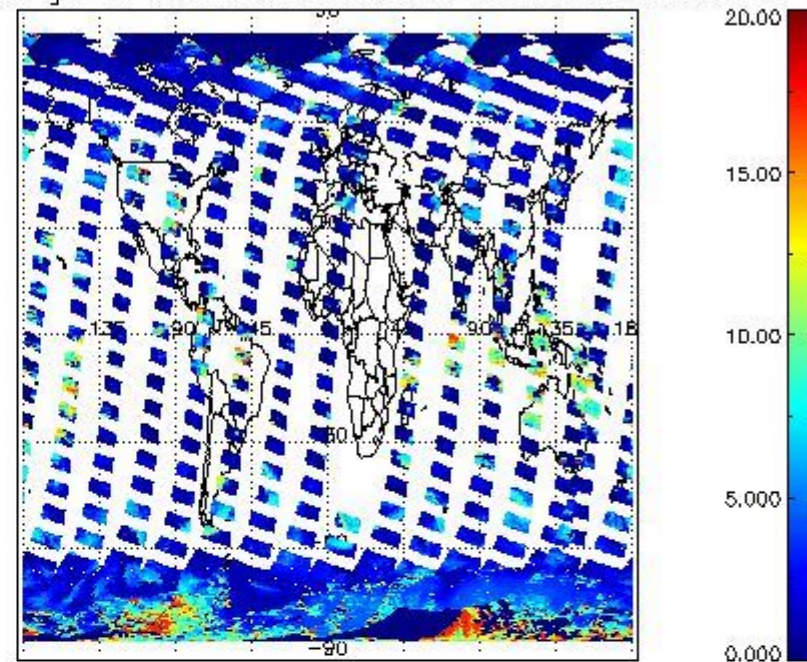
Plots are available for the following parameters:

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

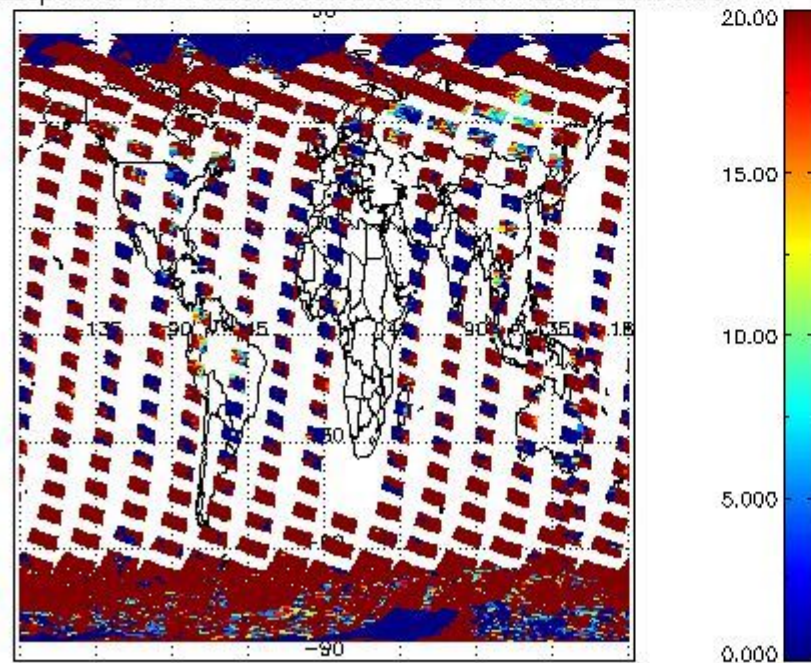
cL_frac for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



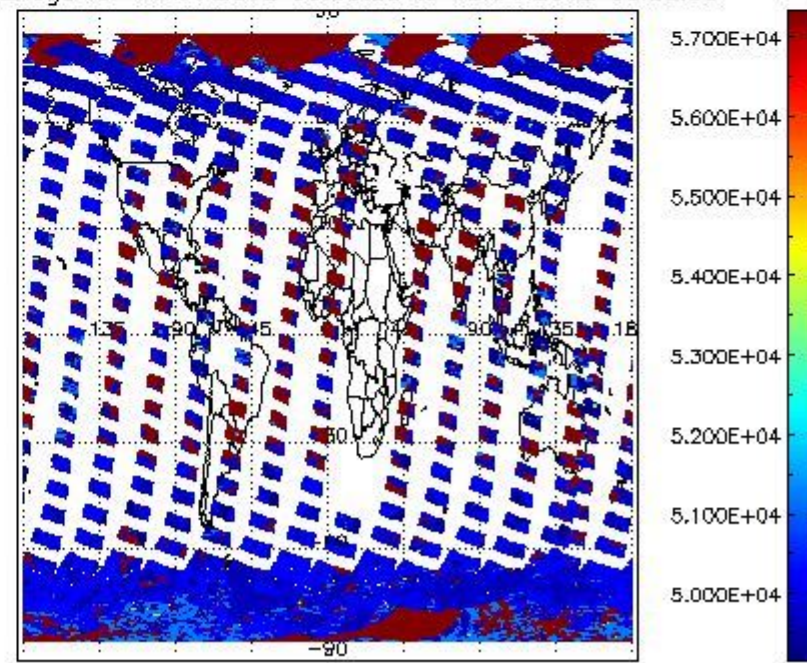
cL_top_height for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



cL_opt_depth for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



cloud_flags for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



2.2.2 Nadir

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

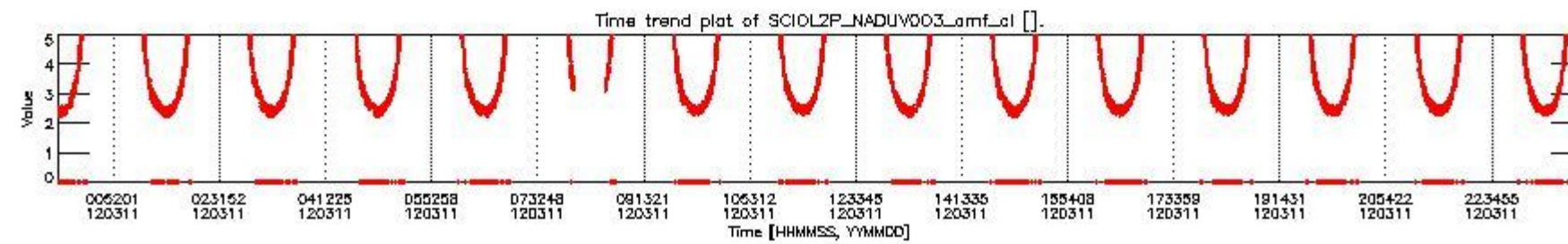
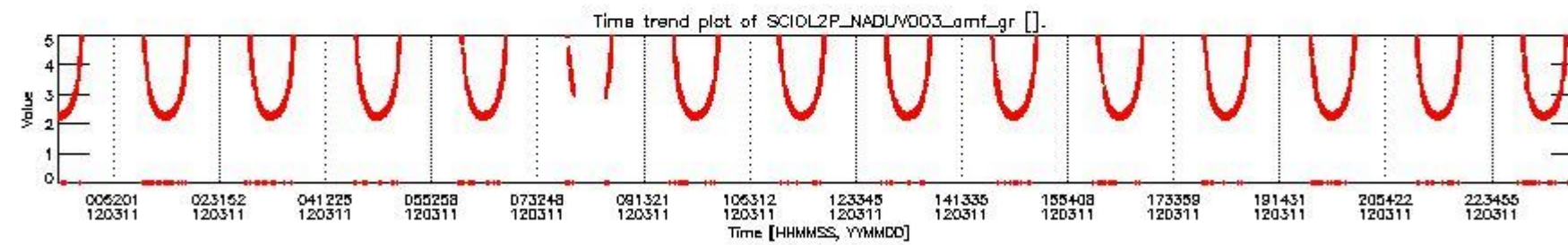
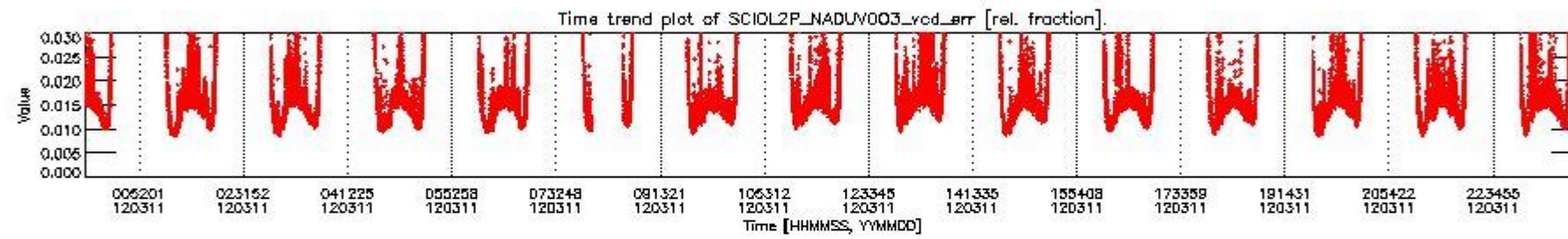
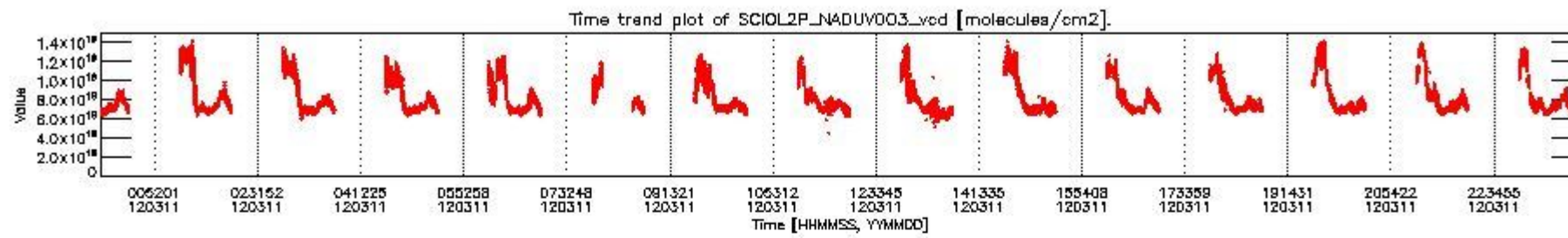
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

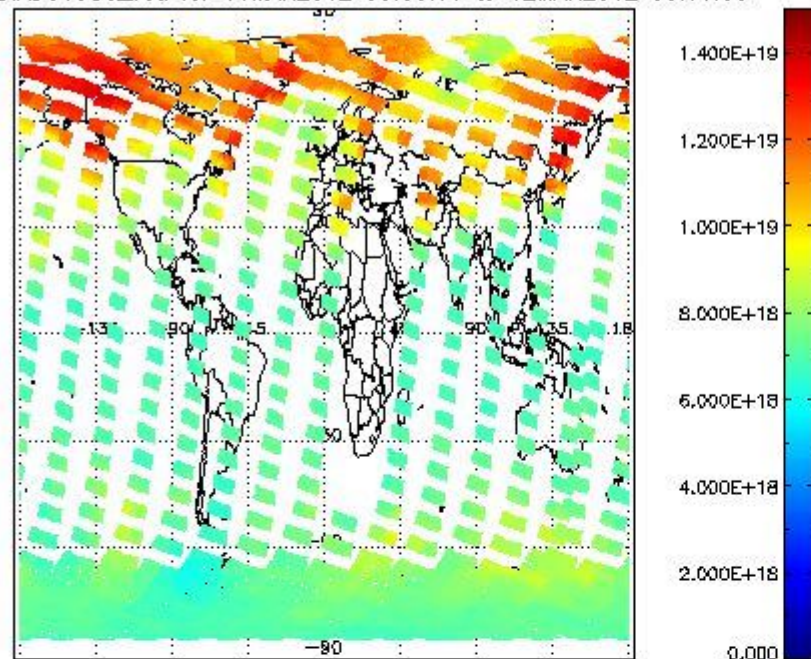
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

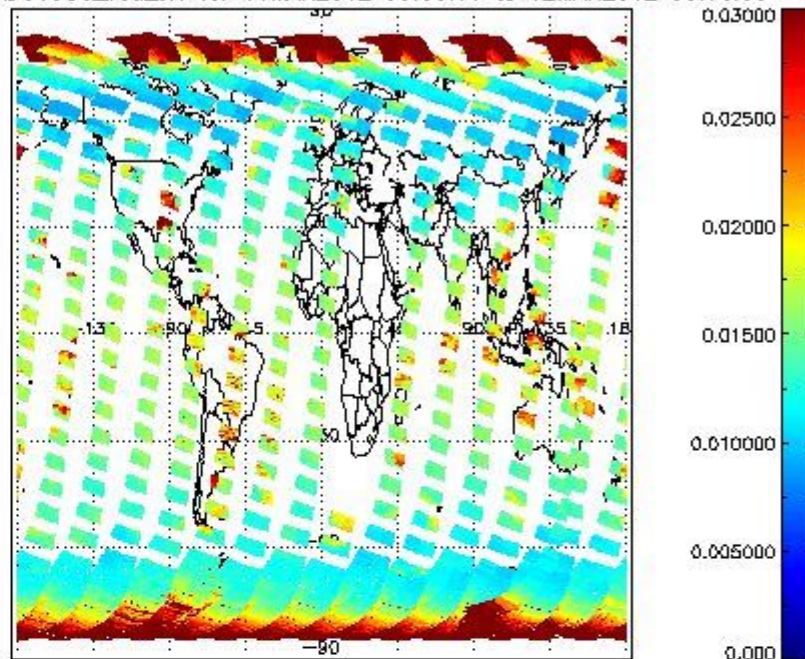
2.2.2.1 O3 (UV0)



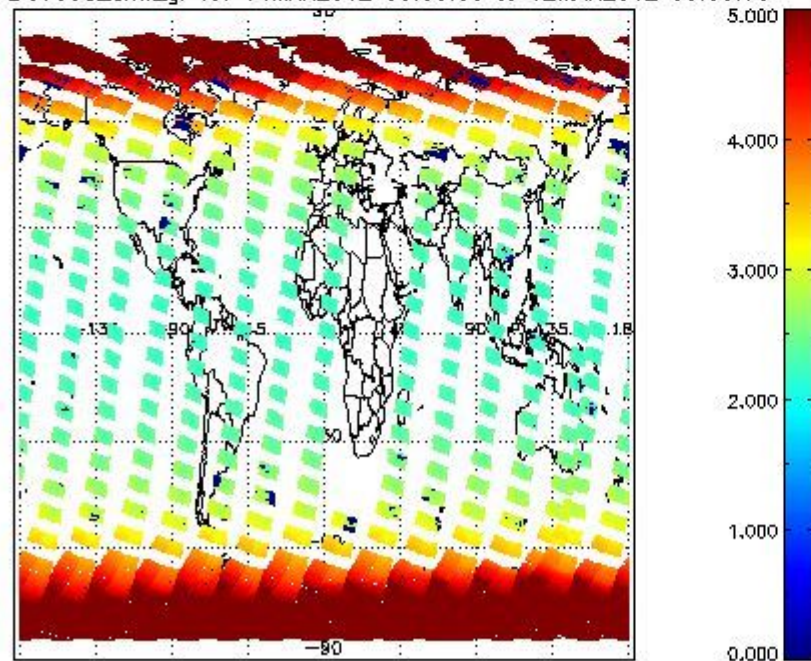
SCIOL2P_NADUV003_vcd for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



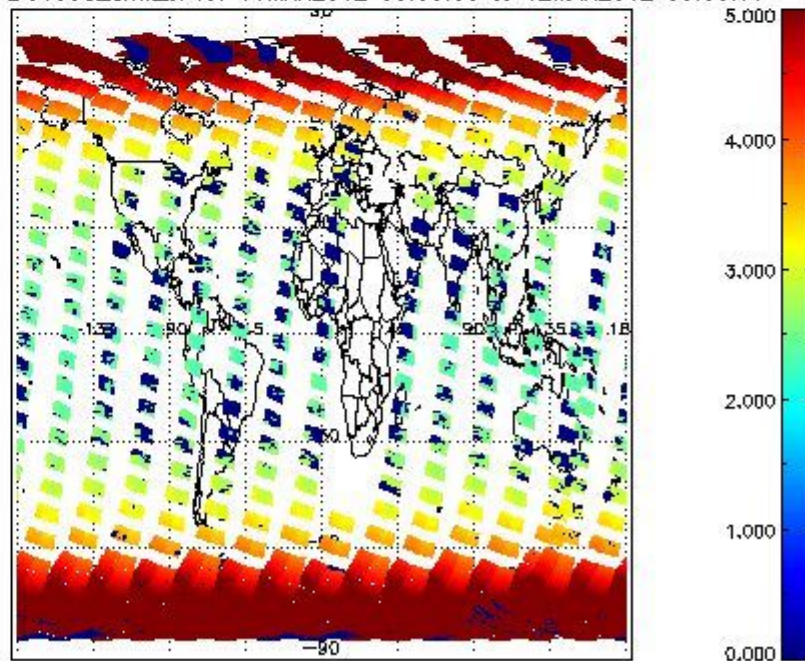
SCIOL2P_NADUV003_vcd_err for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



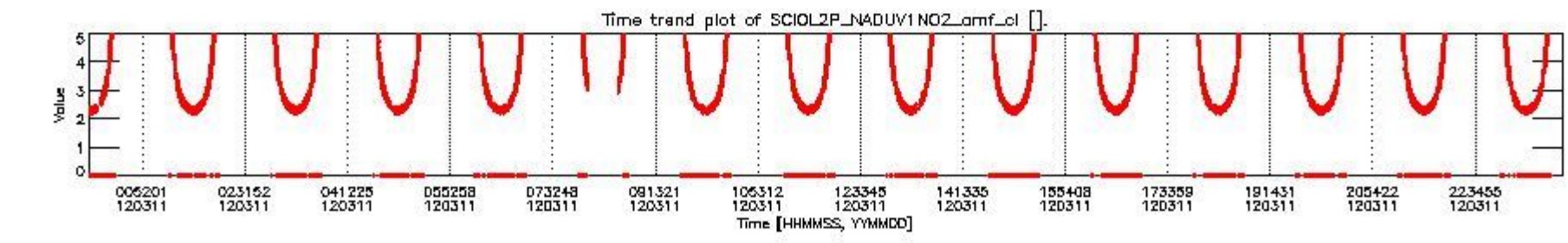
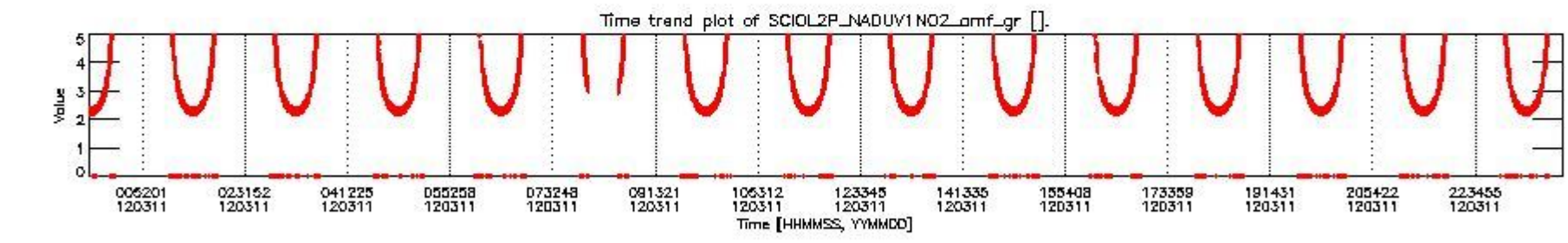
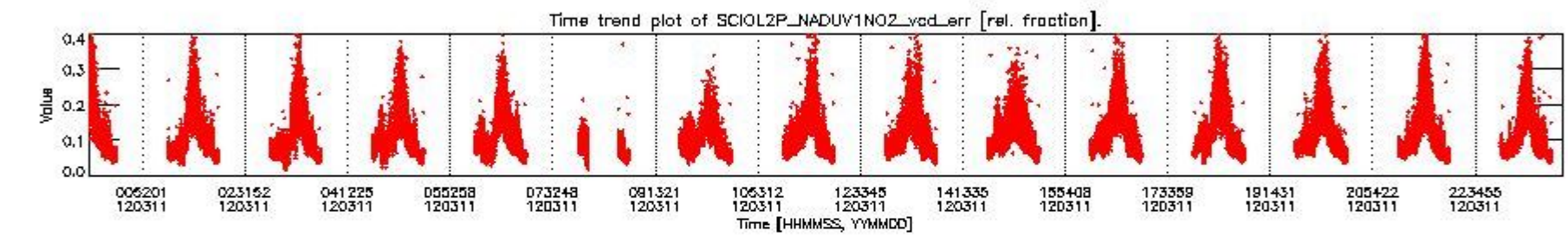
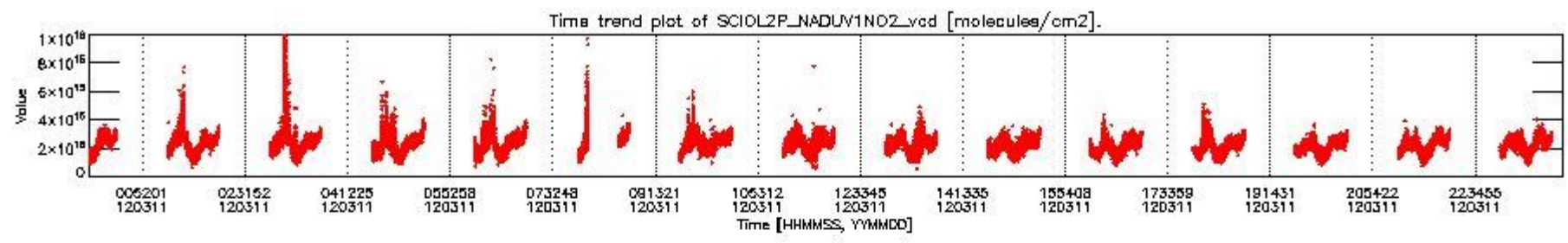
SCIOL2P_NADUV003_amf_gr for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



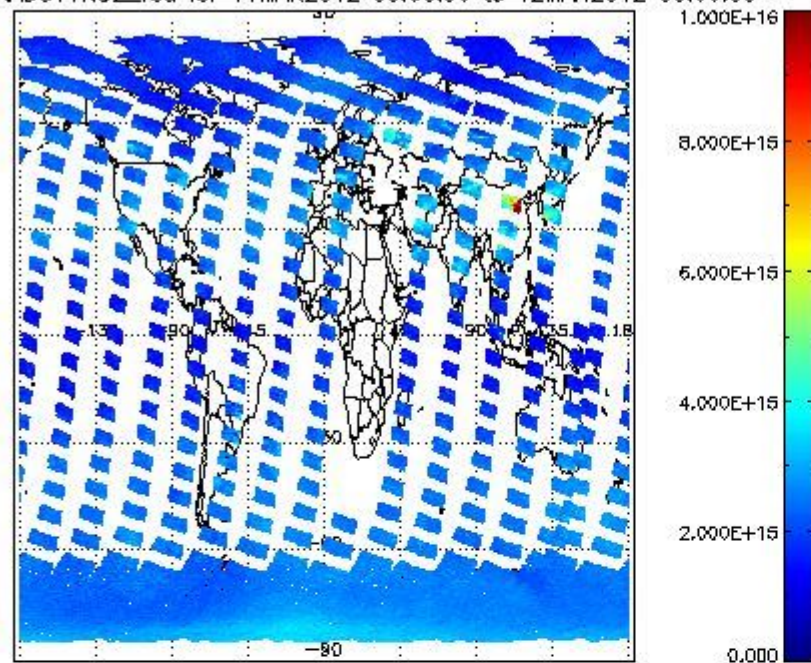
SCIOL2P_NADUV003_amf_cl for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



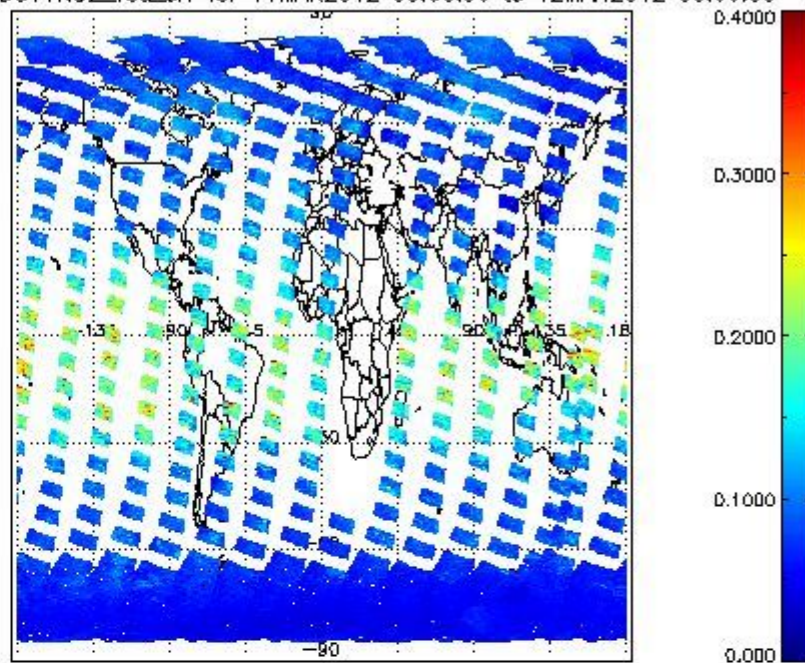
2.2.2.2 NO2 (UV1)



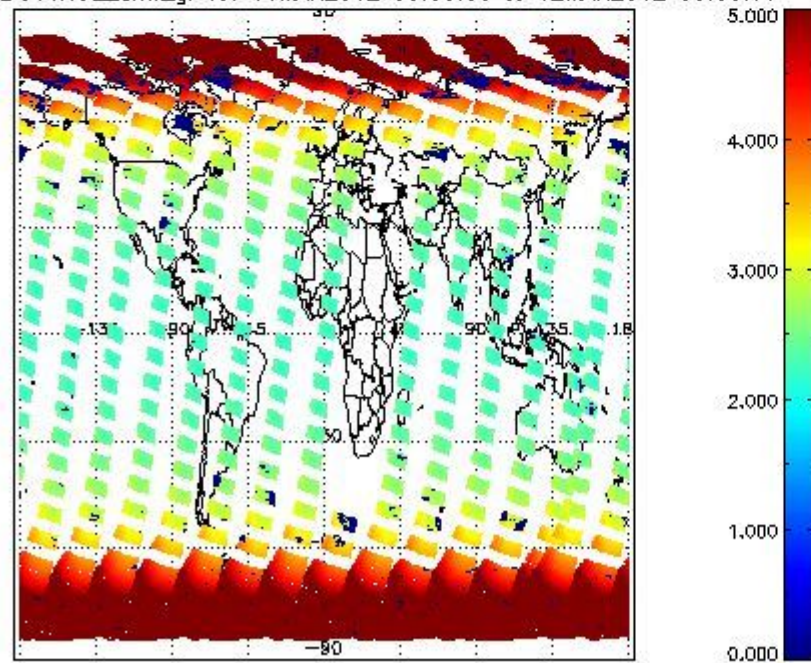
SCIOL2P_NADUV1NO2_vcd for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



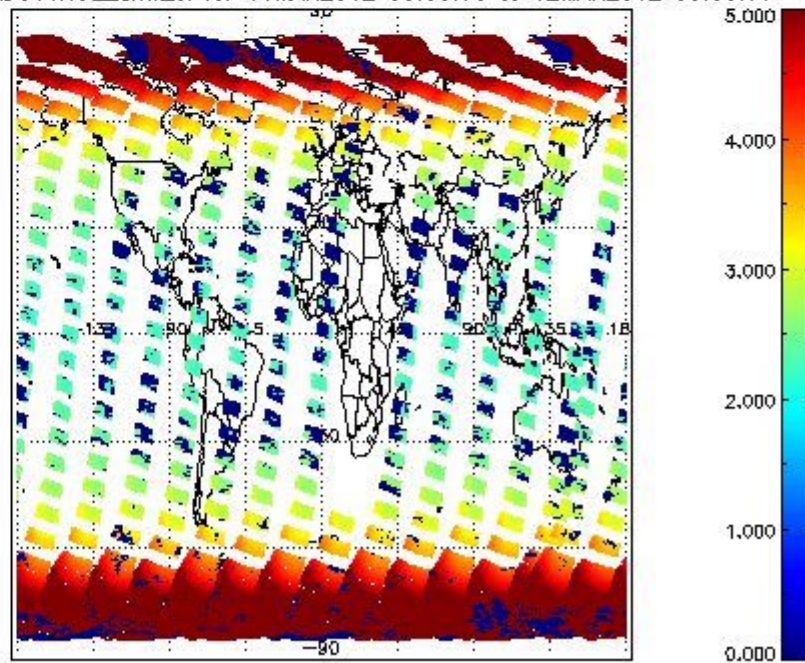
SCIOL2P_NADUV1NO2_vcd_err for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



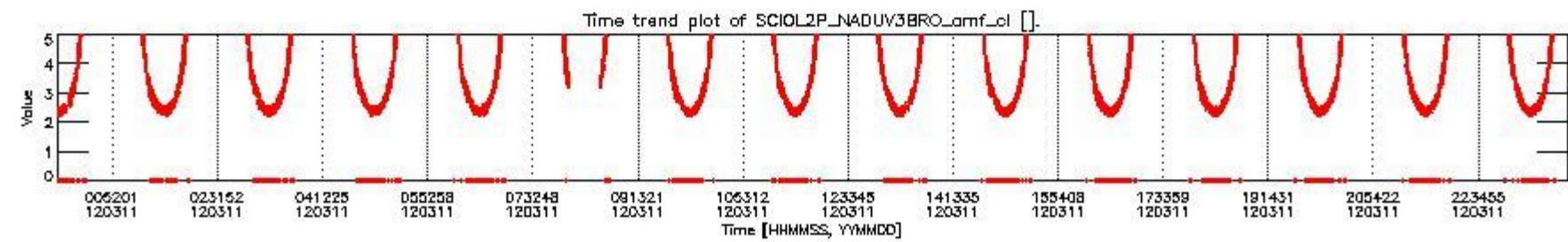
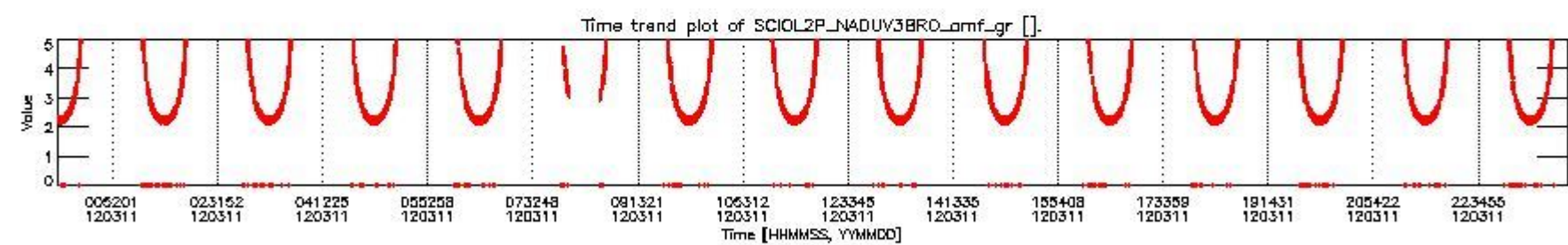
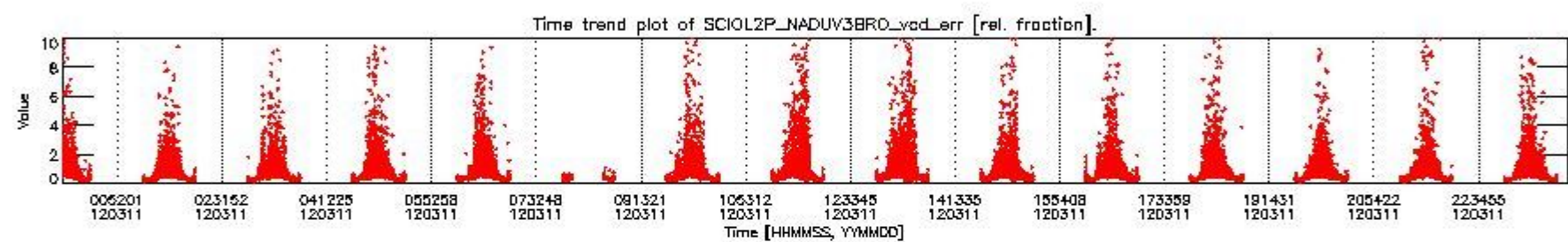
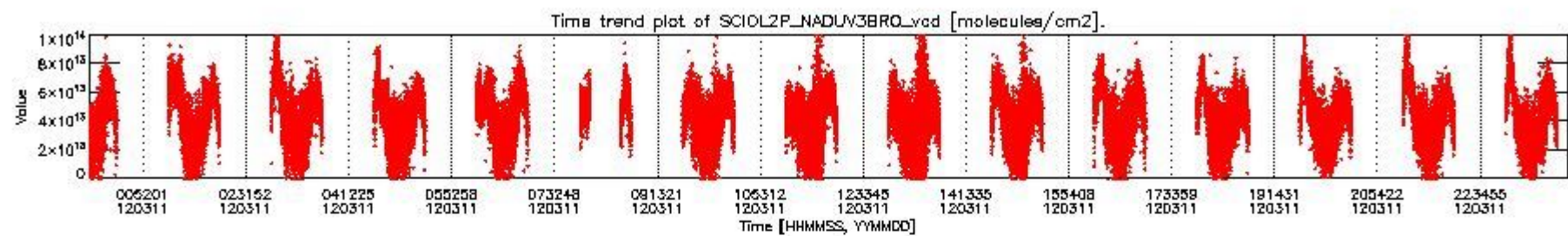
SCIOL2P_NADUV1NO2_amf_gr for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



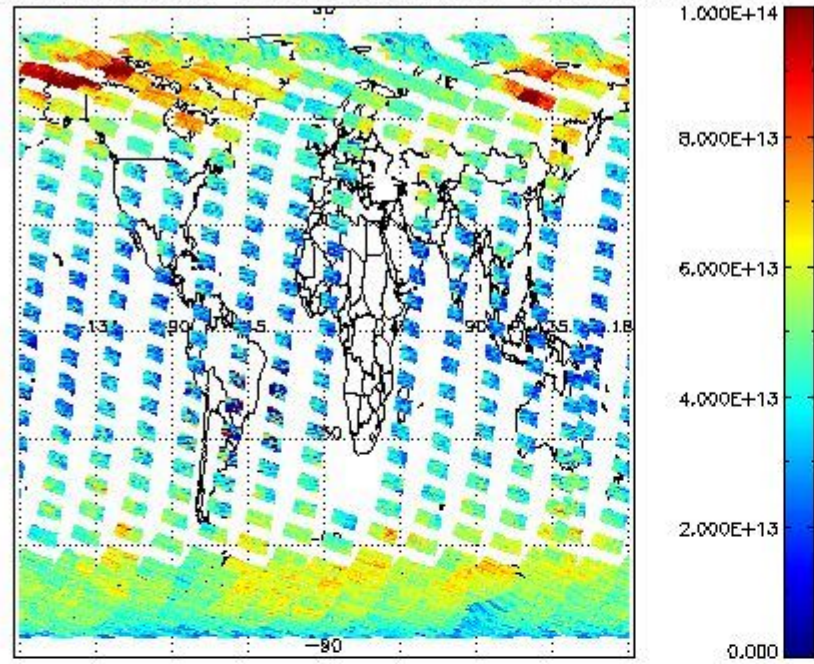
SCIOL2P_NADUV1NO2_amf_cl for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



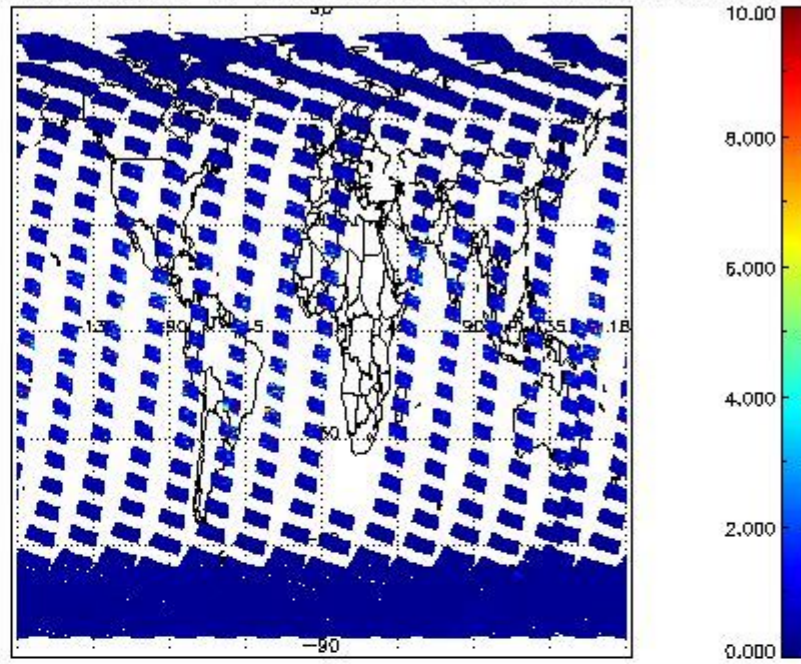
2.2.2.3 Bro (UV3)



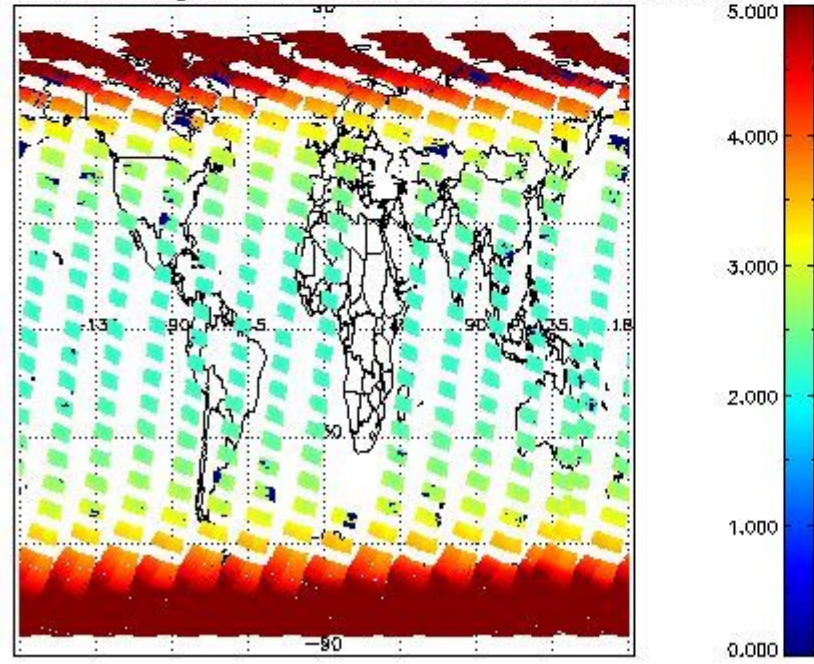
SCIOL2P_NADUV3BRO_vcd for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



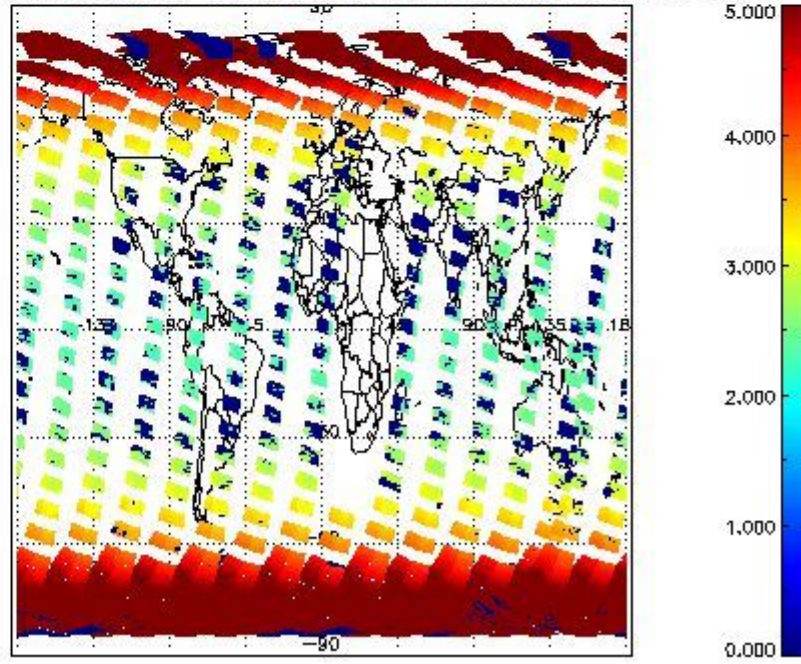
SCIOL2P_NADUV3BRO_vcd_err for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



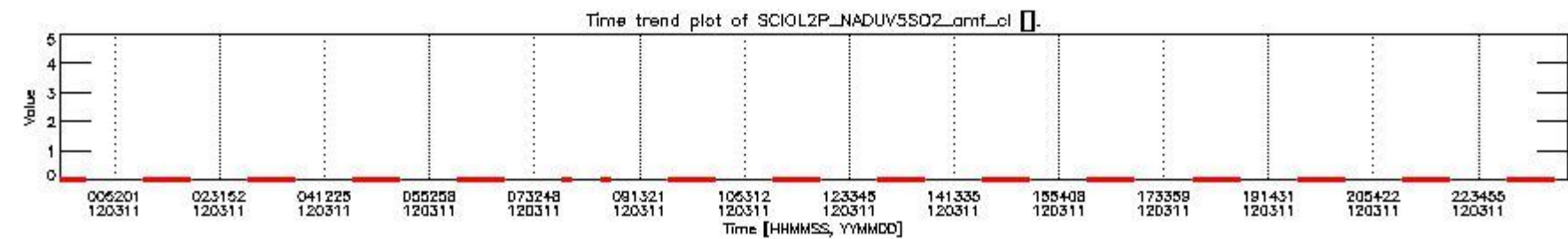
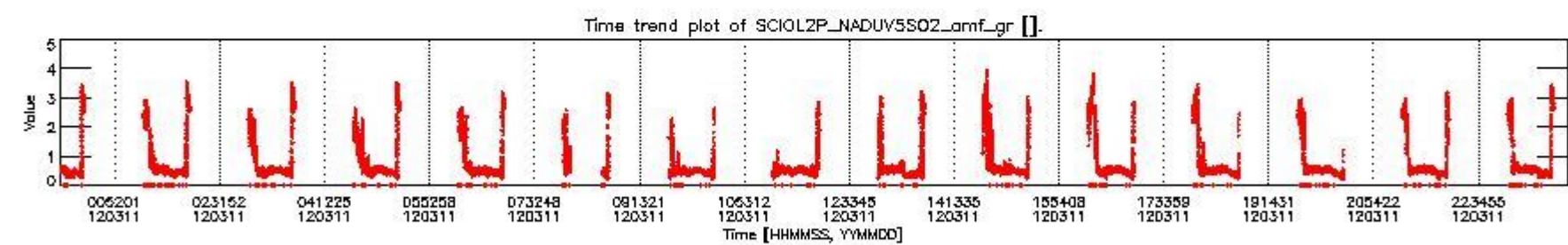
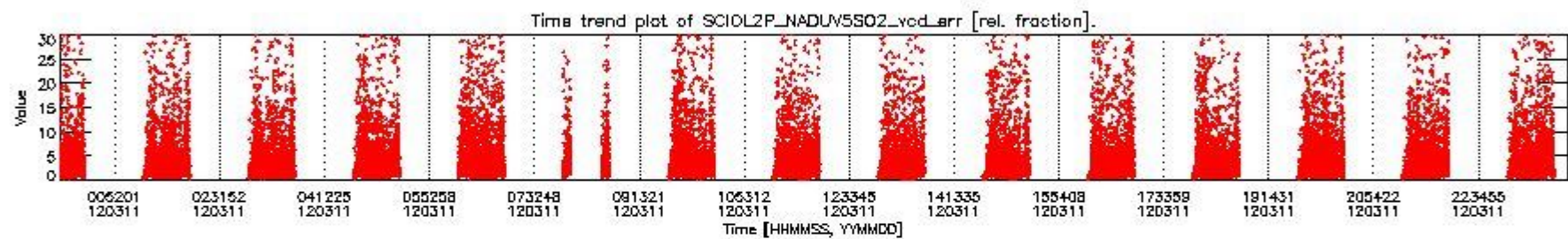
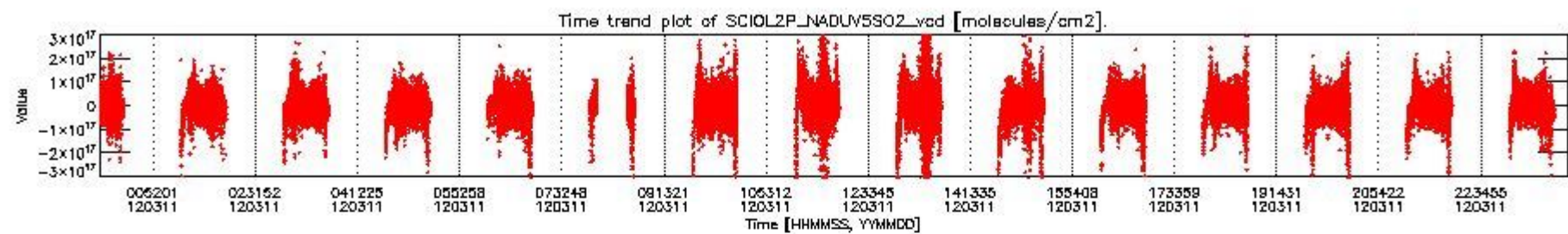
SCIOL2P_NADUV3BRO_amf_gr for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



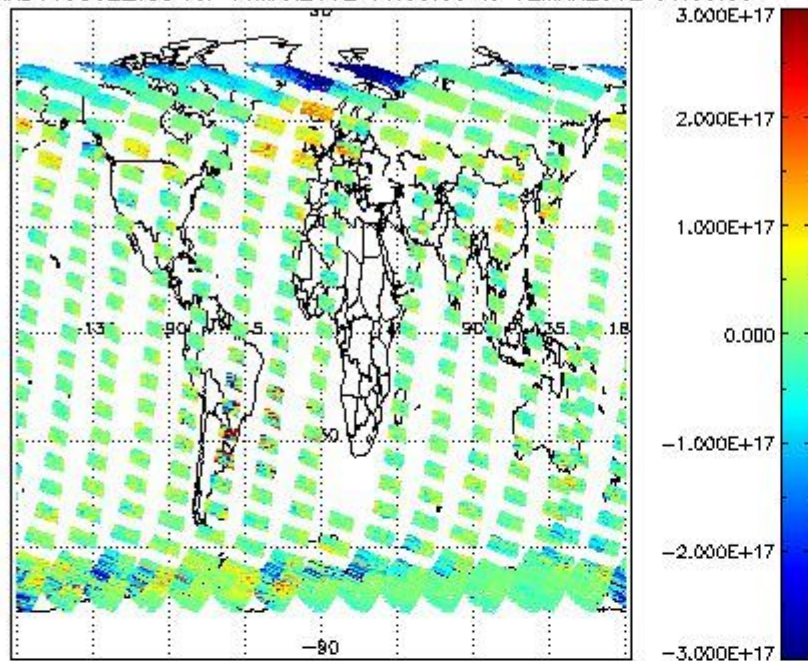
SCIOL2P_NADUV3BRO_amf_cl for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



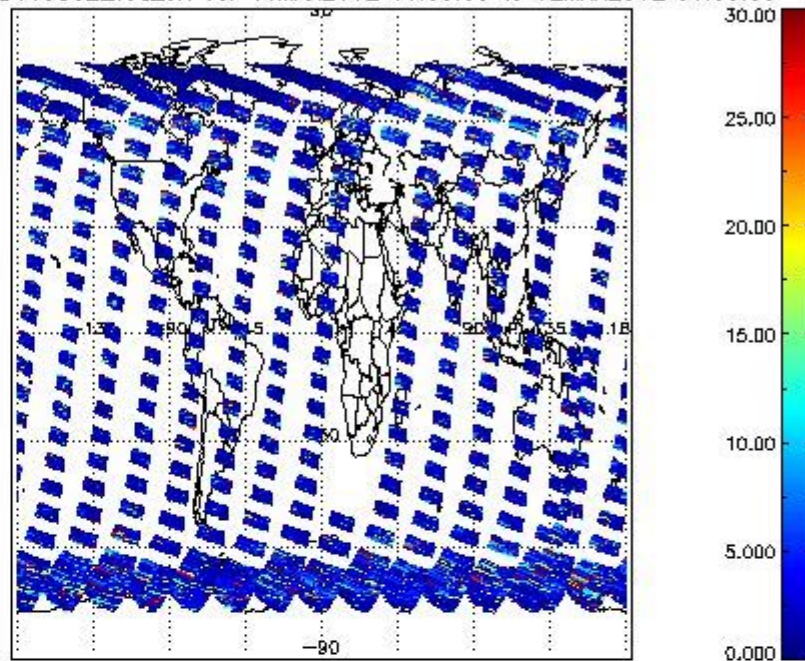
2.2.2.4 SO2 (UV5)



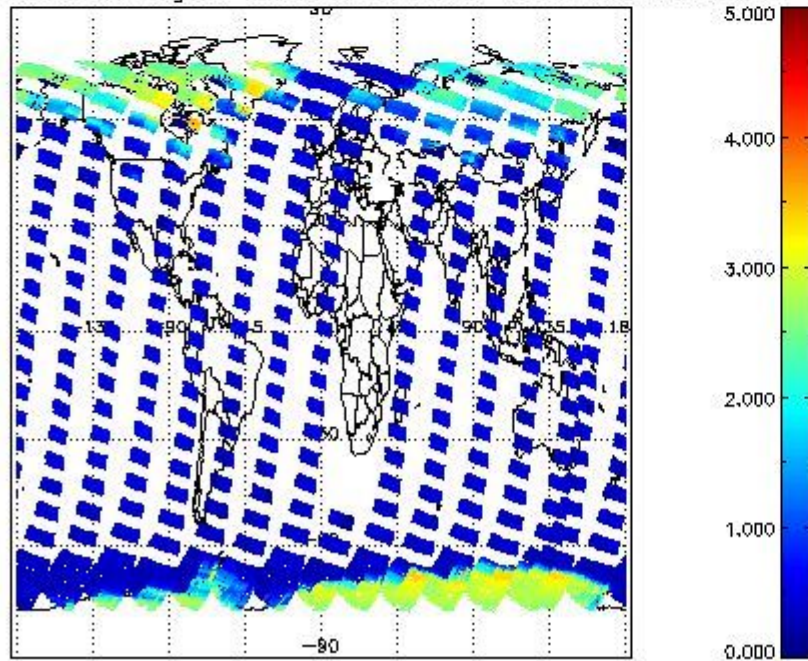
SCIOL2P_NADUV5SO2_vcd for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



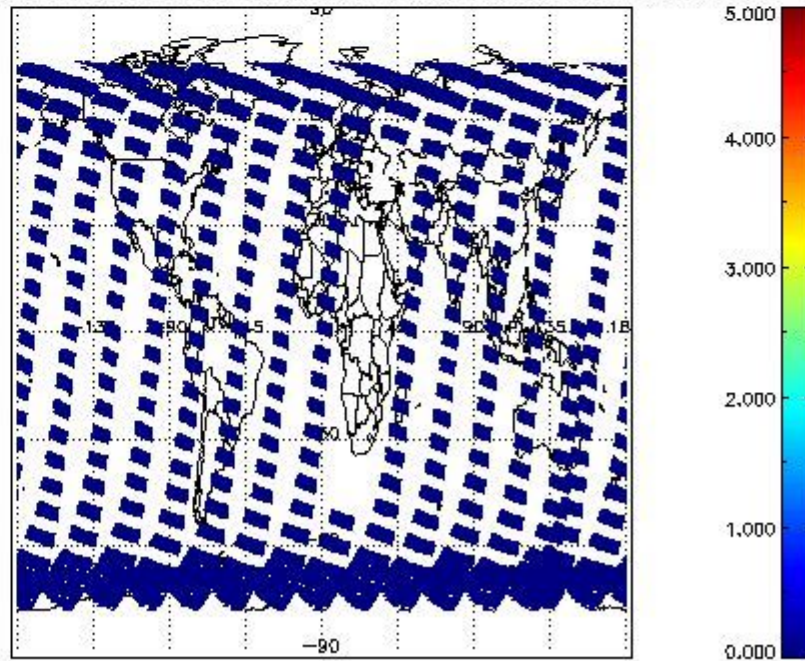
SCIOL2P_NADUV5SO2_vcd_err for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



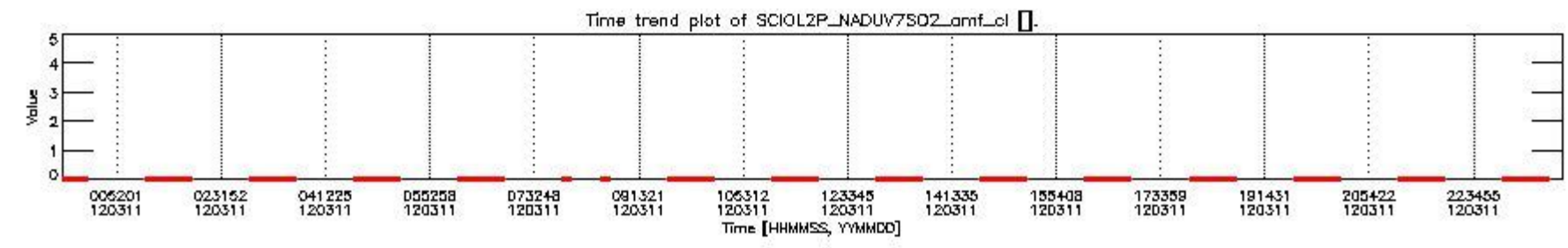
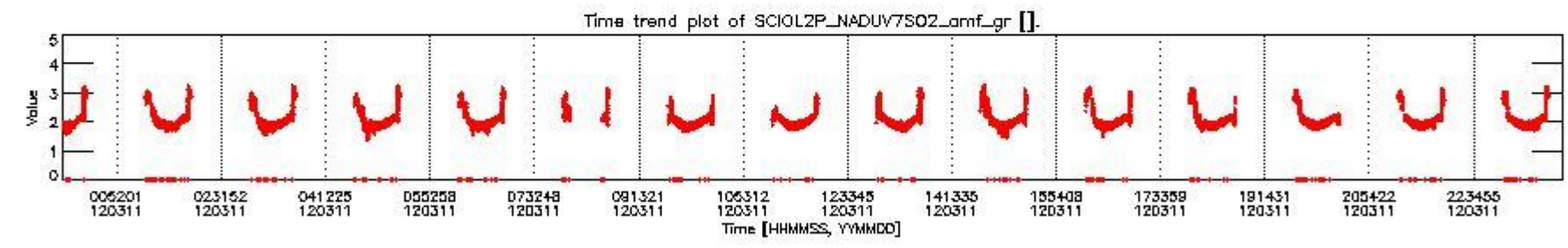
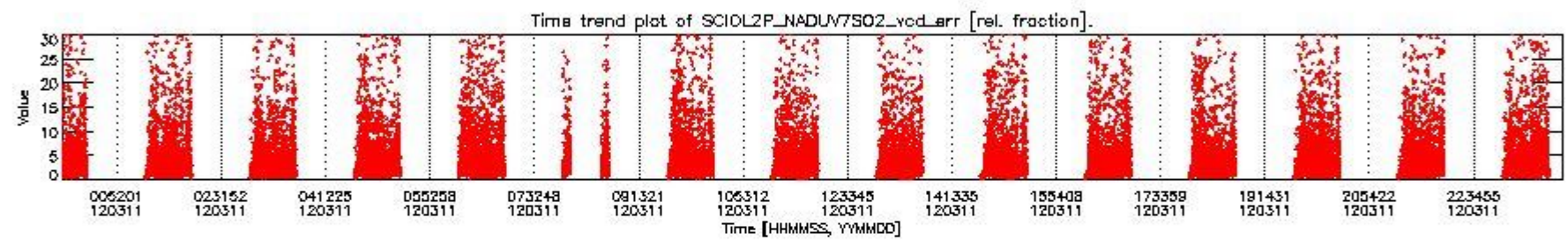
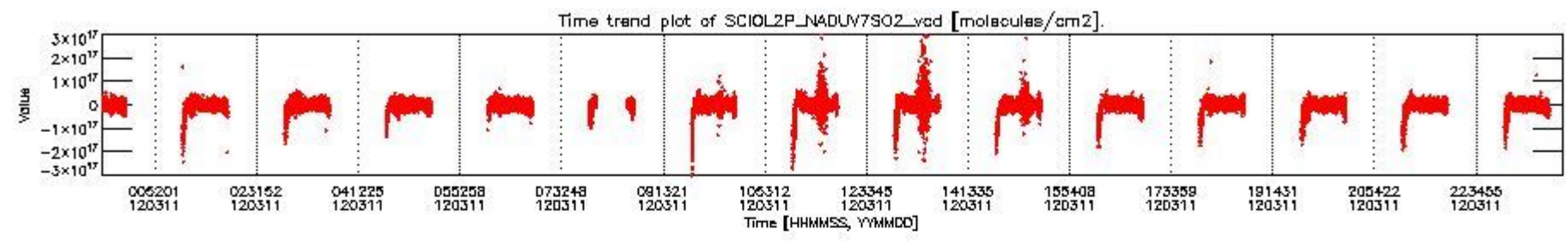
SCIOL2P_NADUV5SO2_amf_gr for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



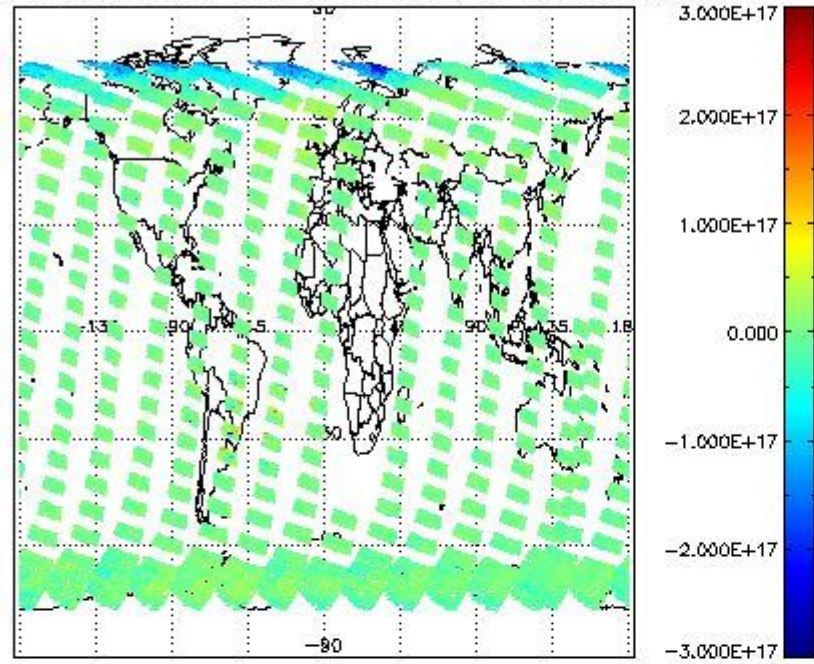
SCIOL2P_NADUV5SO2_amf_cl for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



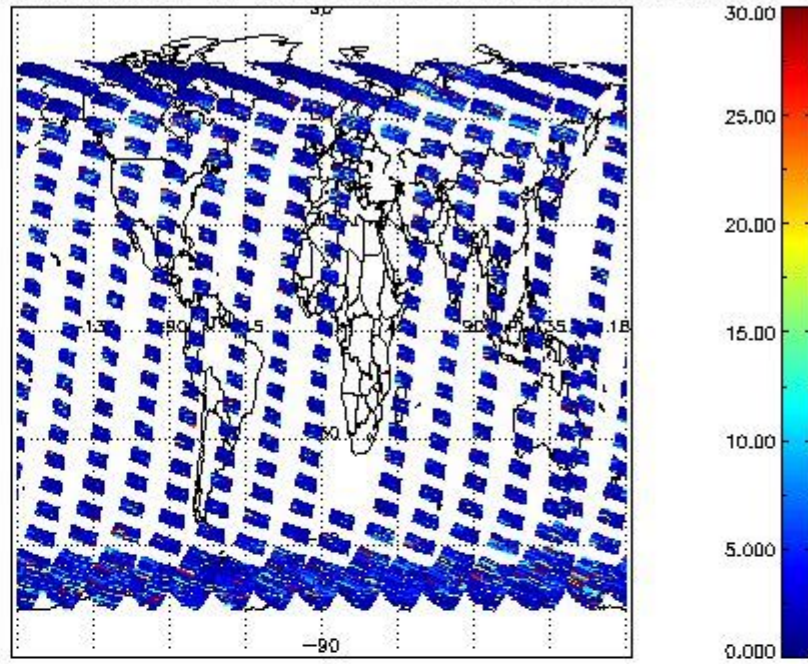
2.2.2.5 SO2 (UV7)



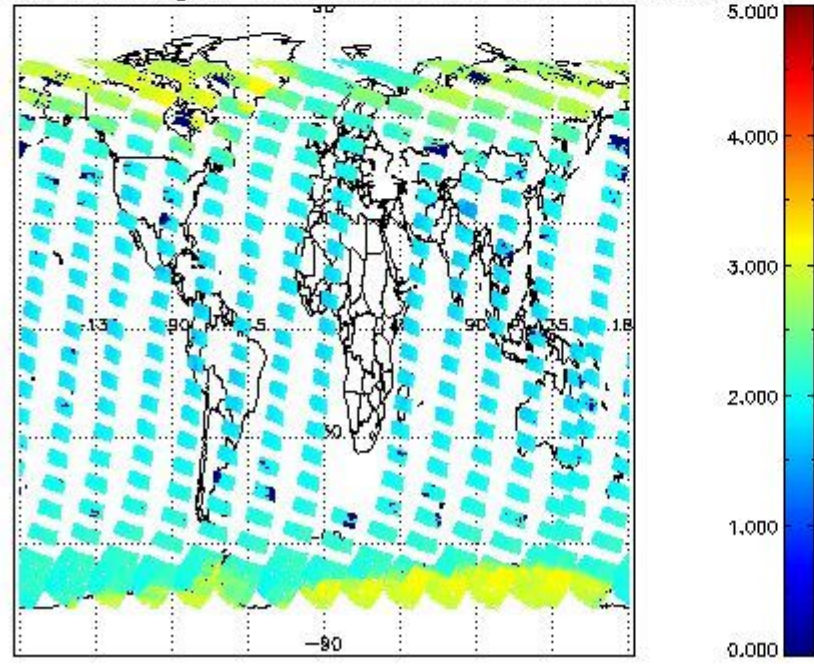
SCIOL2P_NADUV7S02_vcd for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



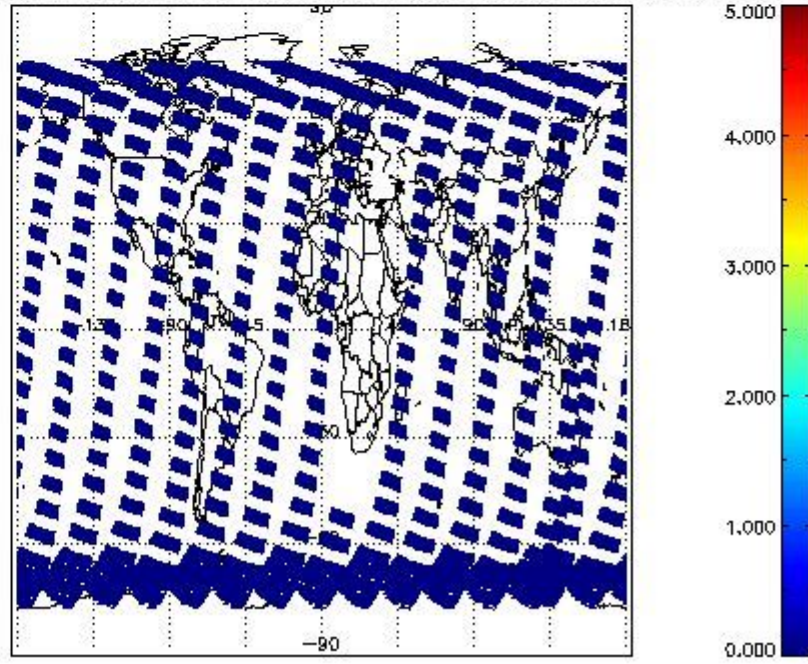
SCIOL2P_NADUV7S02_vcd_err for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



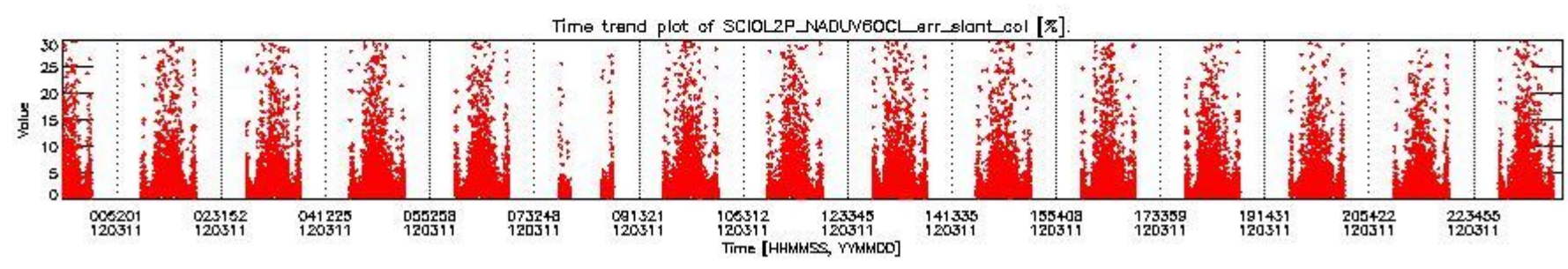
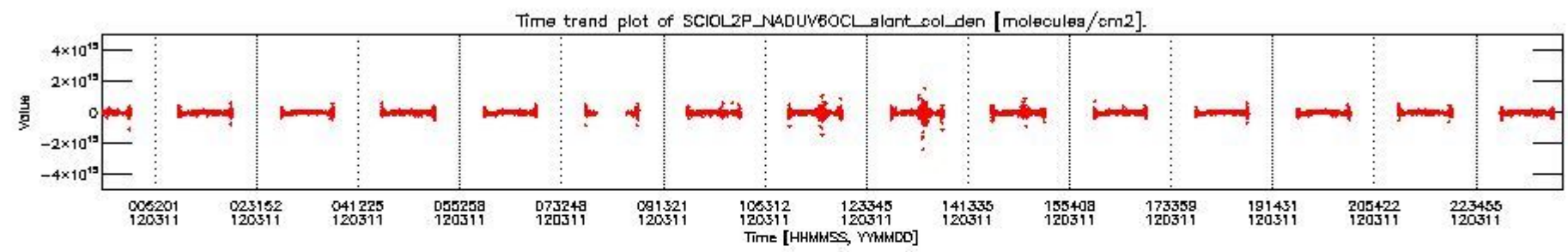
SCIOL2P_NADUV7S02_amf_gr for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



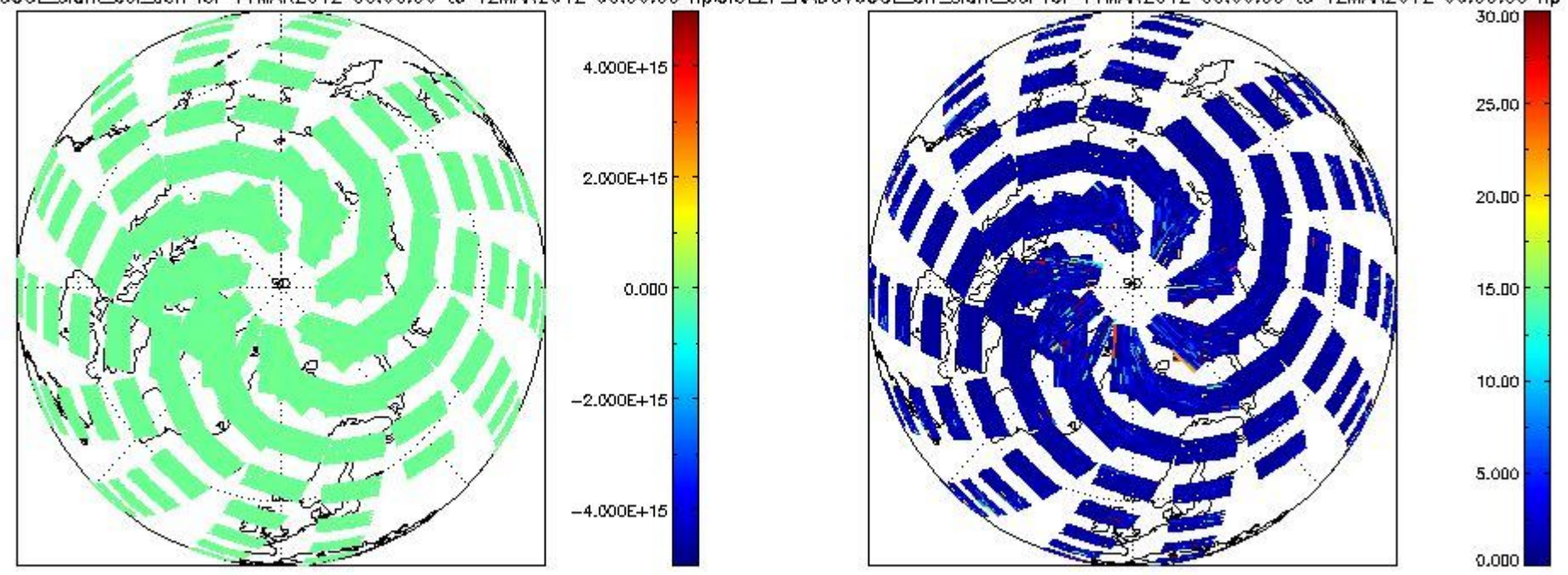
SCIOL2P_NADUV7S02_amf_cl for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



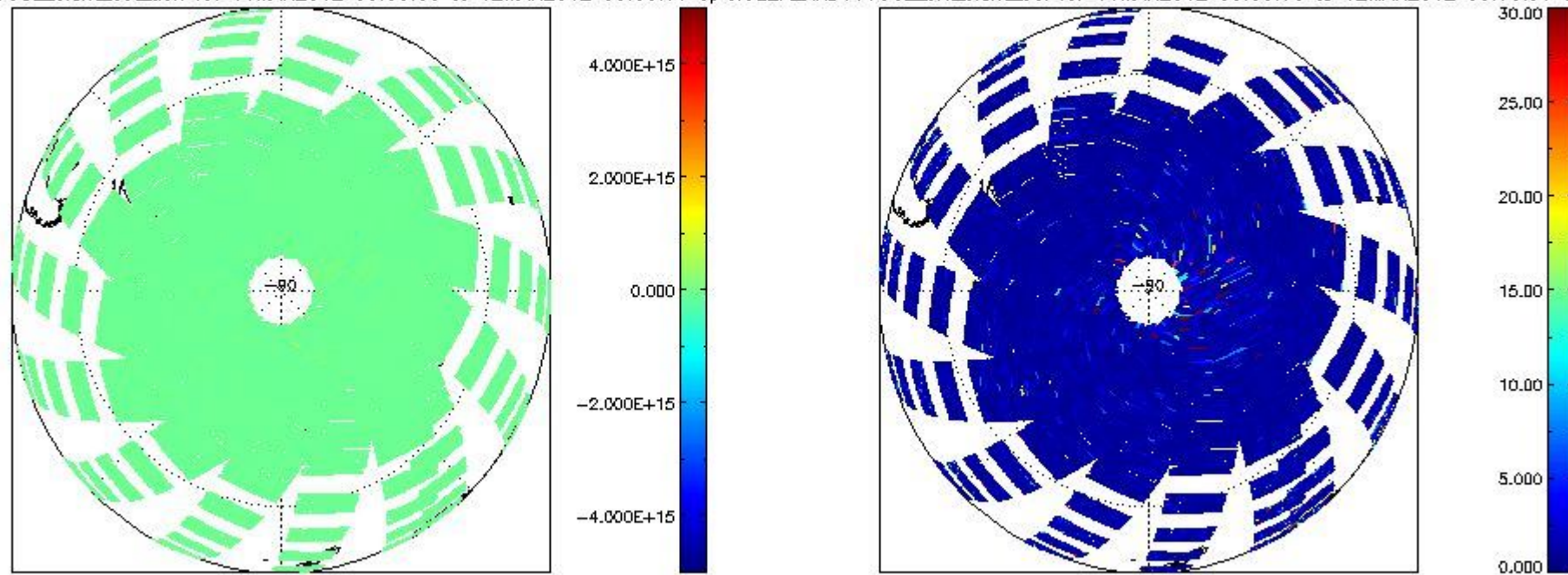
2.2.2.6 OCIO (UV6)



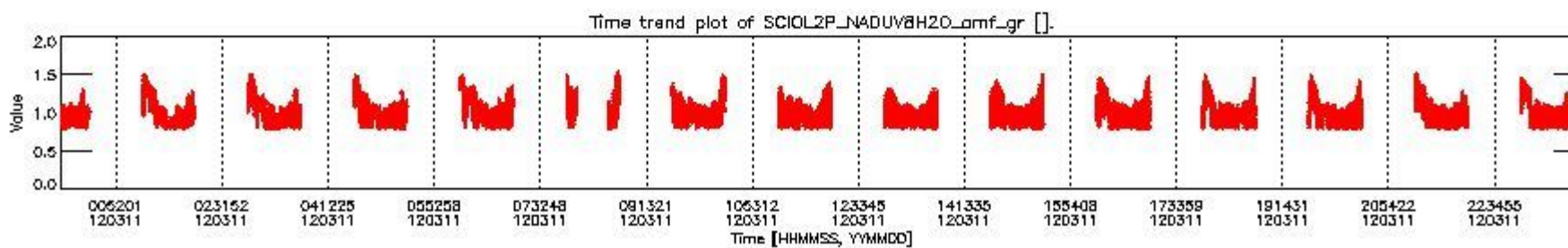
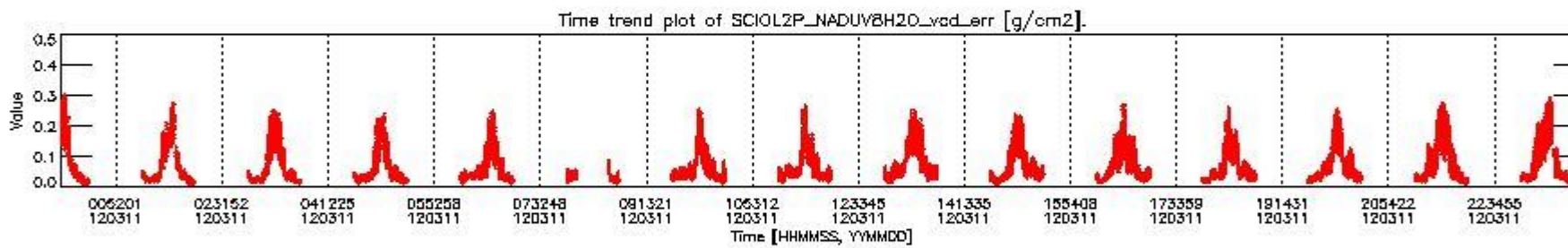
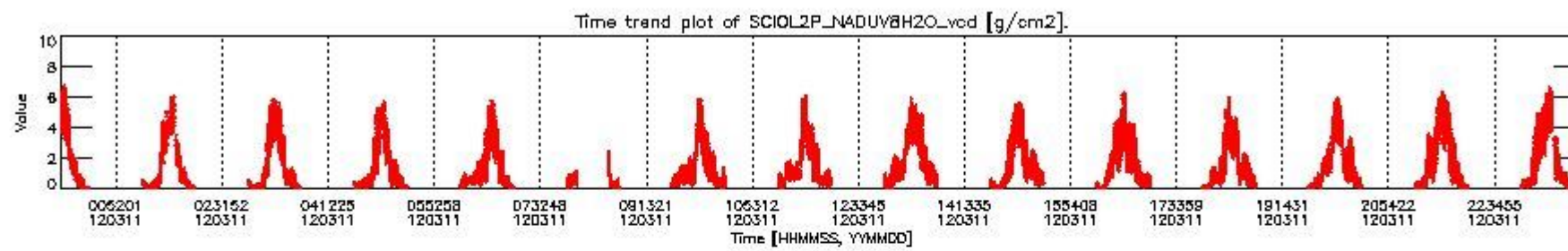
CIOL2P_NADUV6OCL_slant_col_den for 11MAR2012 00:00:00 to 12MAR2012 00:00:00 np CIOL2P_NADUV6OCL_err_slant_col for 11MAR2012 00:00:00 to 12MAR2012 00:00:00 np



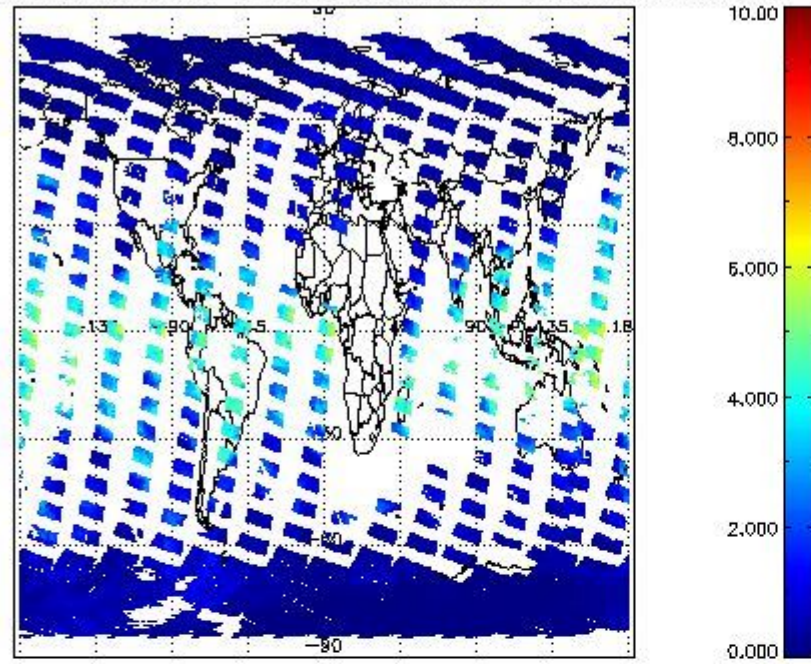
CIOL2P_NADUV6OCL_slant_coLden for 11MAR2012 00:00:00 to 12MAR2012 00:00:00 sp:CIOL2P_NADUV6OCL_err_slant_col for 11MAR2012 00:00:00 to 12MAR2012 00:00:00 sp



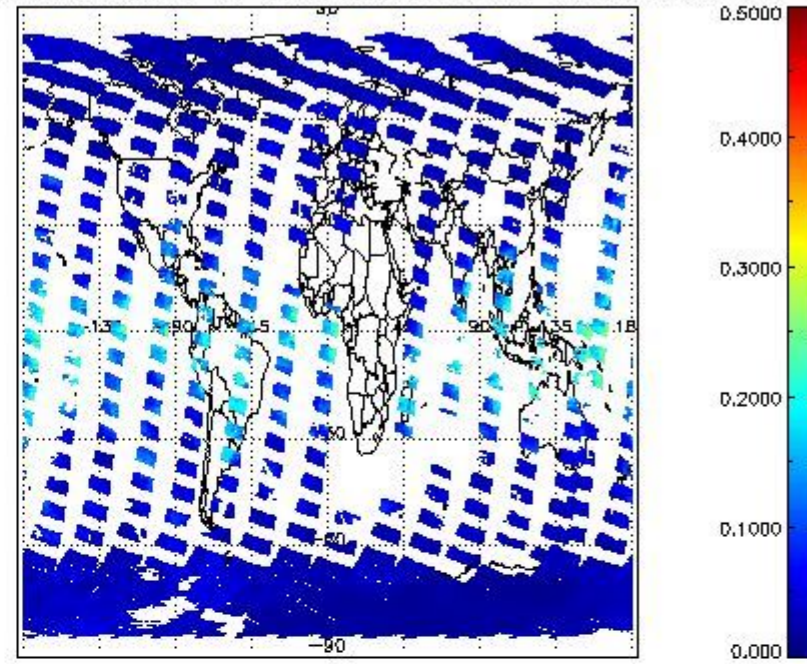
2.2.2.7 H2O (UV8)



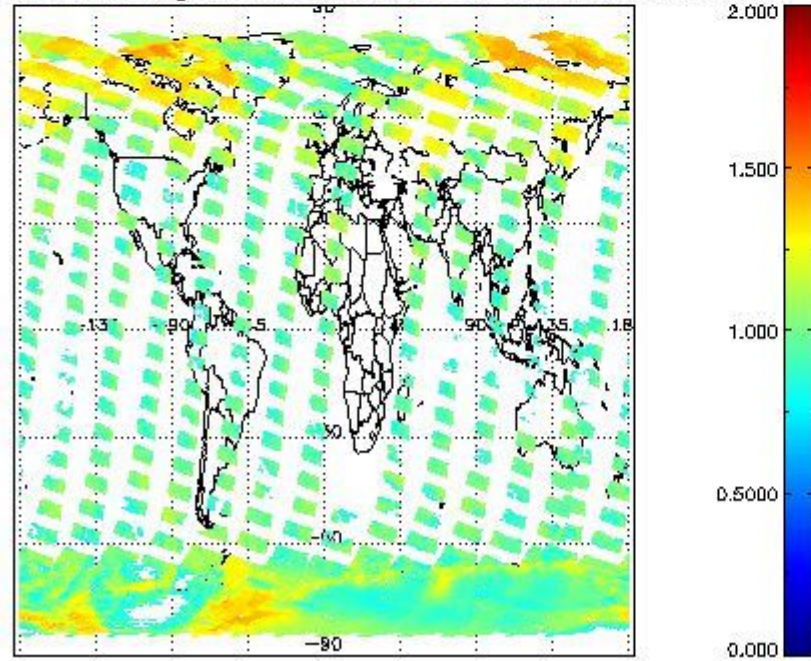
SCIOL2P_NADUV8H2O_vcd for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



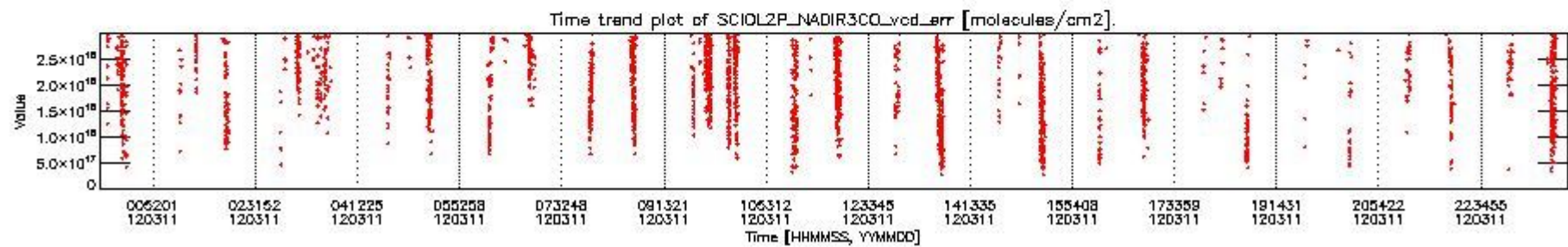
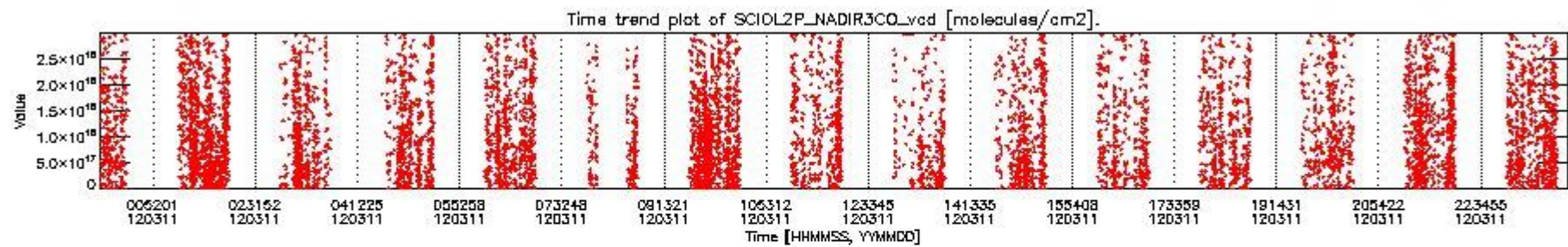
SCIOL2P_NADUV8H2O_vcd_err for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



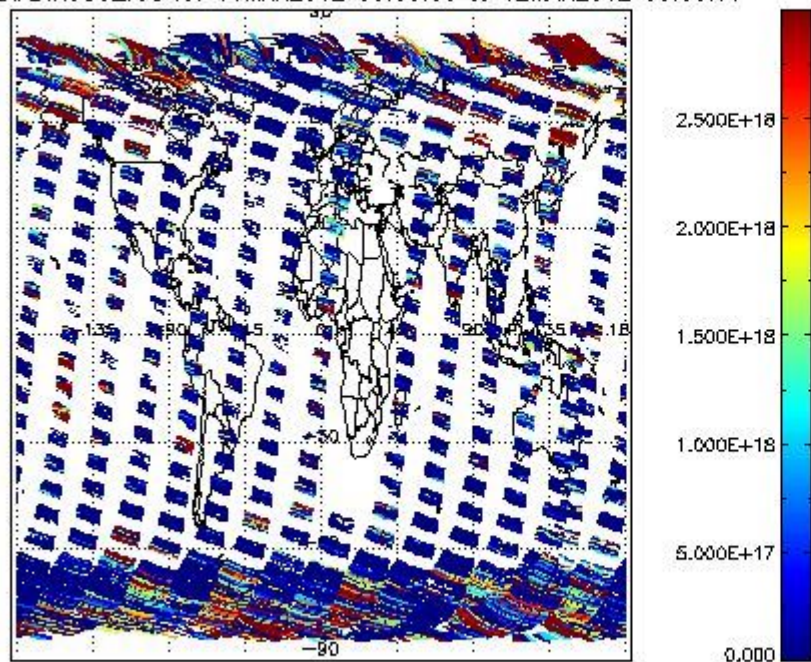
SCIOL2P_NADUV8H2O_amf_gr for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



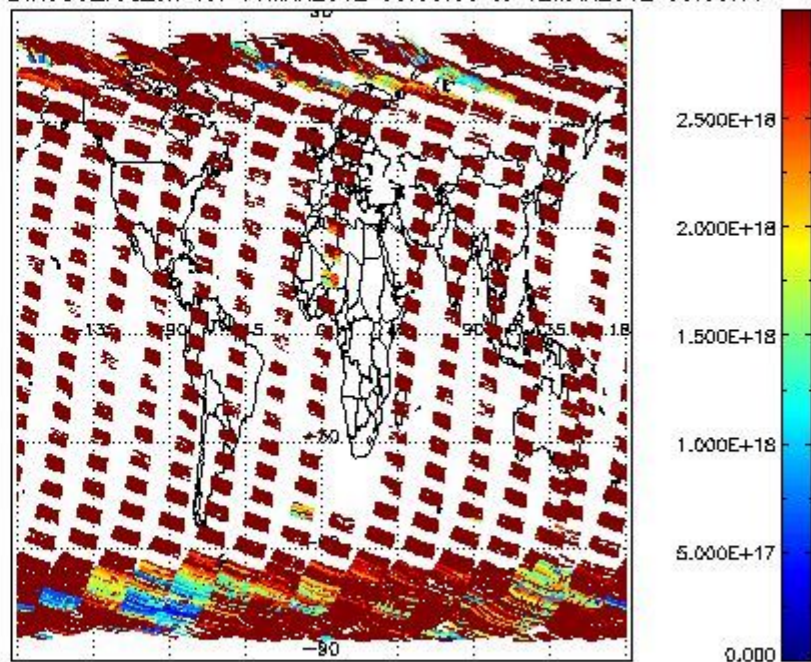
2.2.2.8 CO (IR3)



SCIDL2P_NADIR3CO_vcd for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



SCIDL2P_NADIR3CO_vcd_err for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



2.2.3 Limb

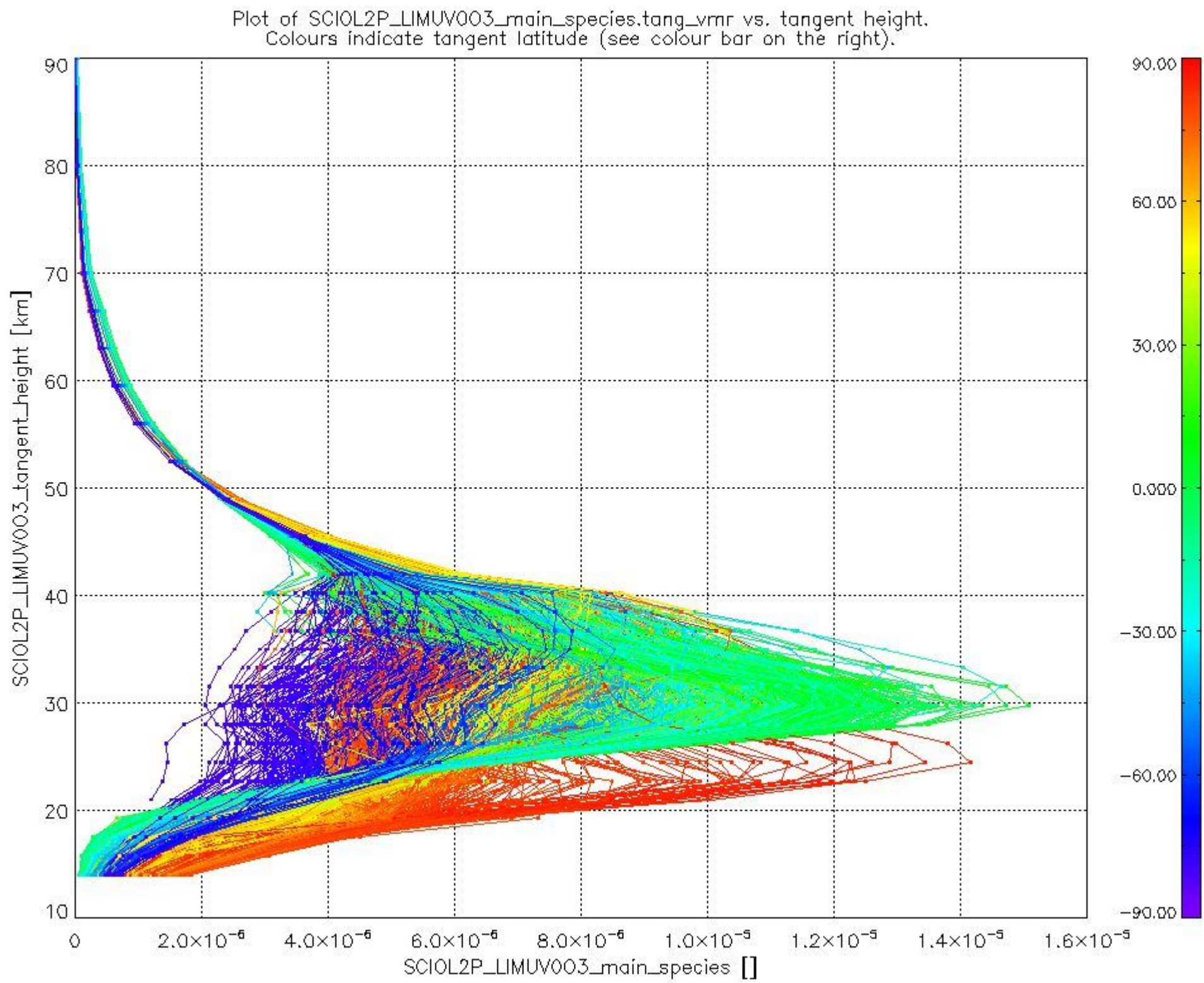
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

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

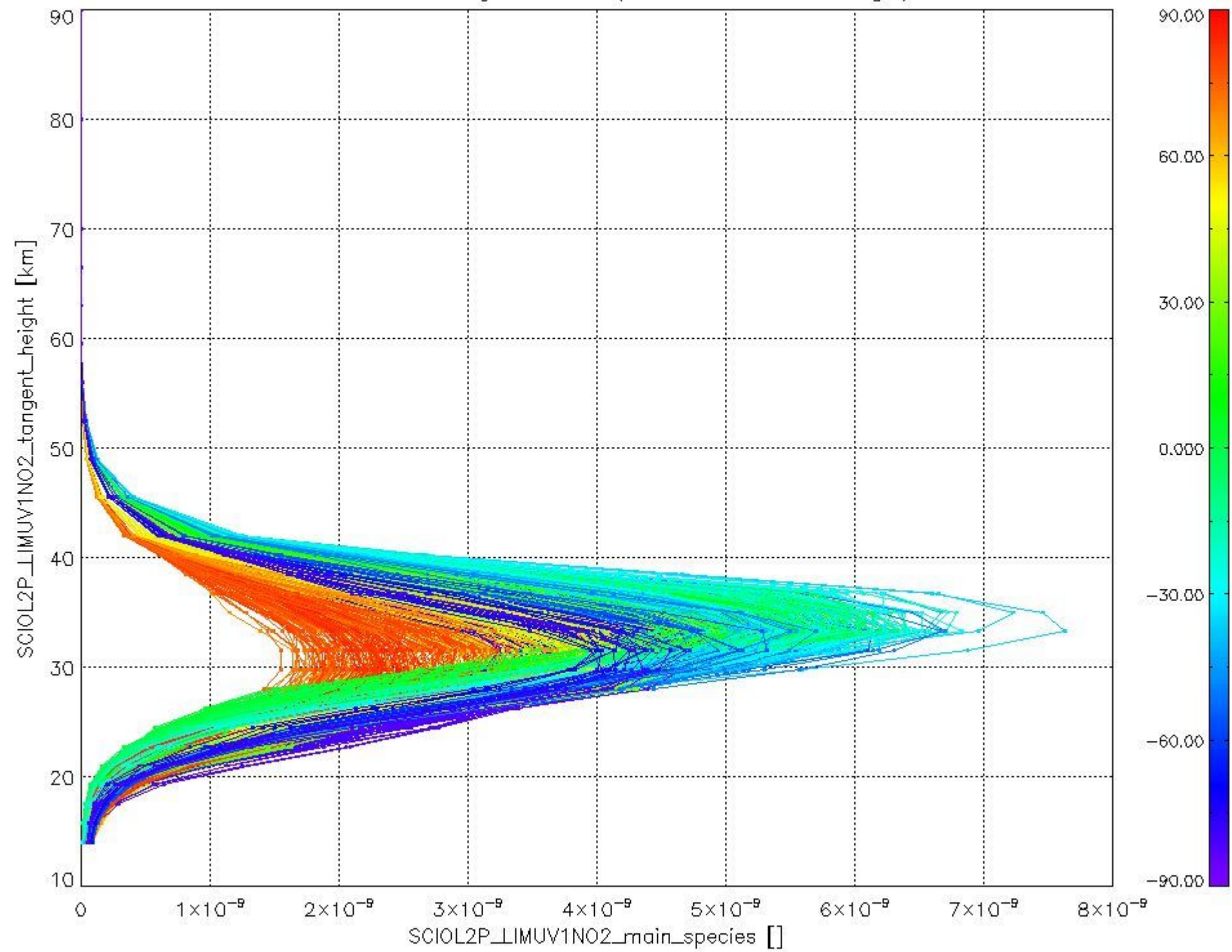
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



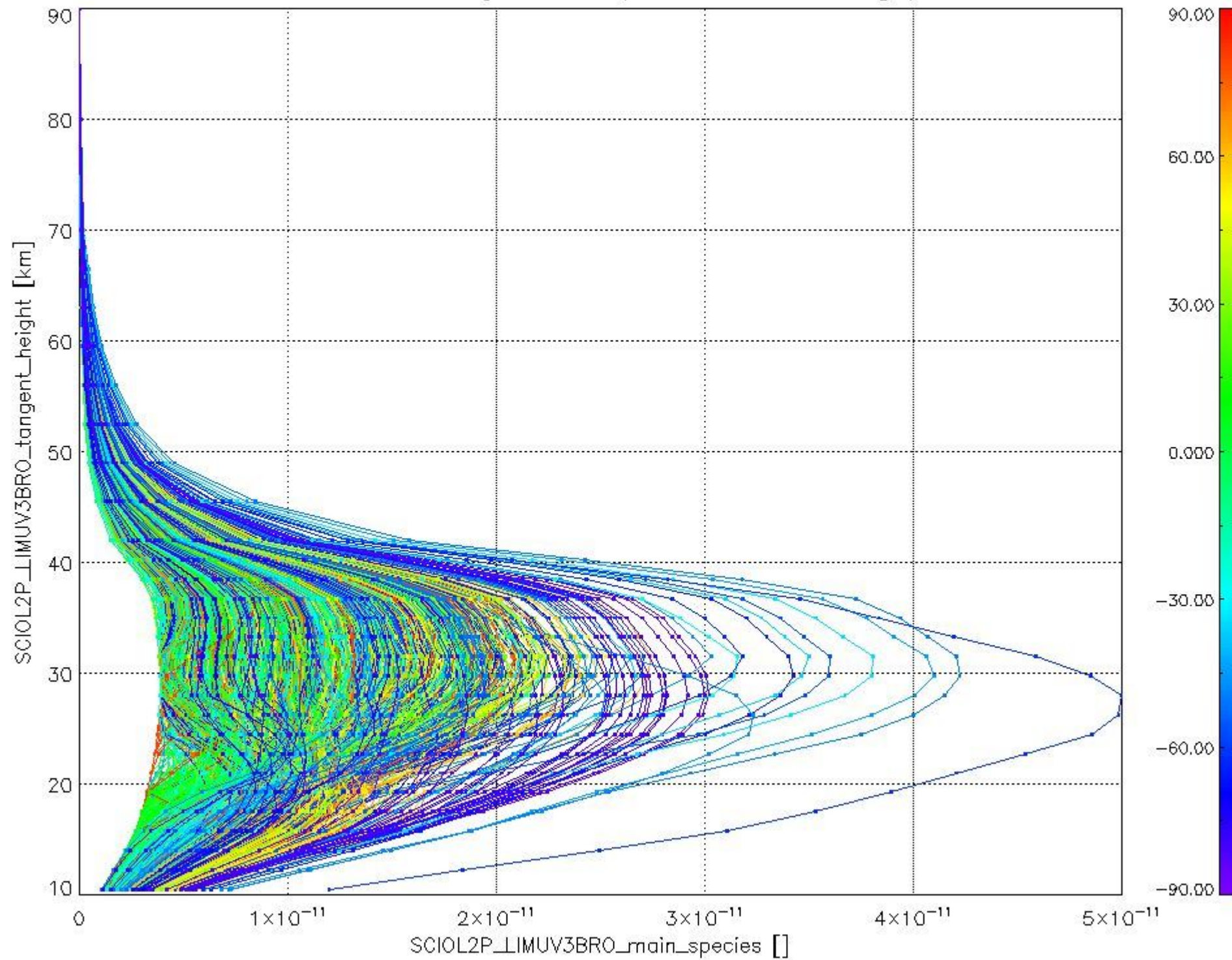
2.2.3.2 NO2 (UV1)

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)

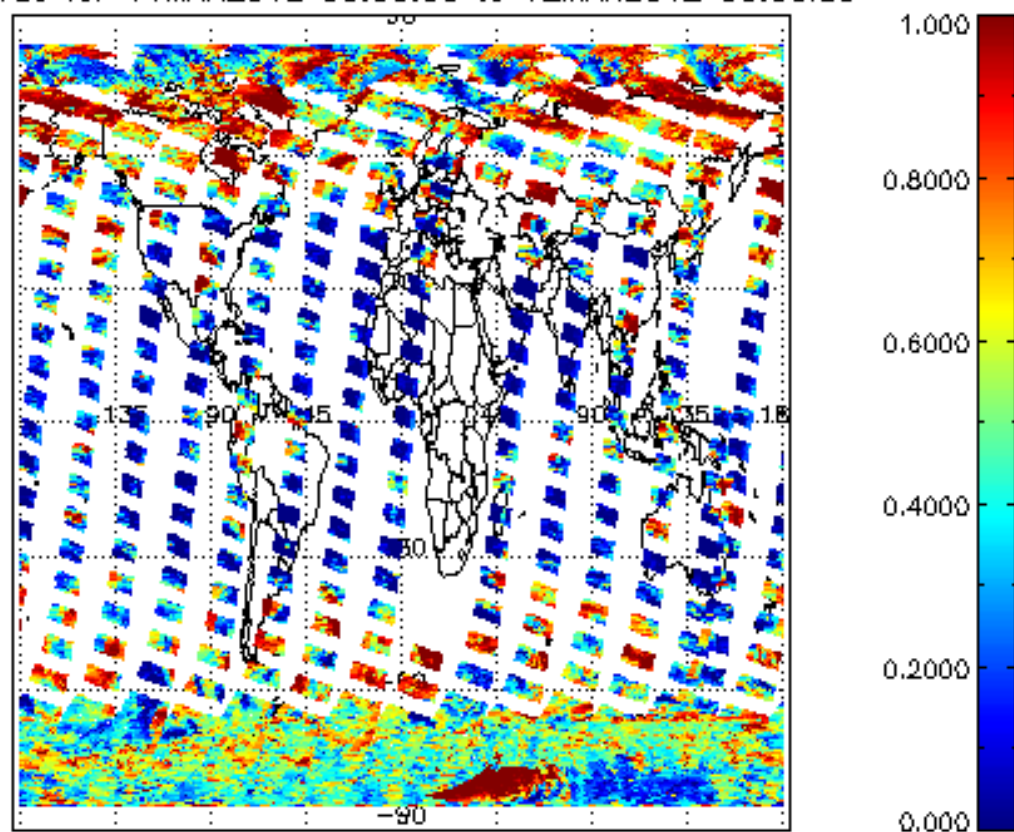
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



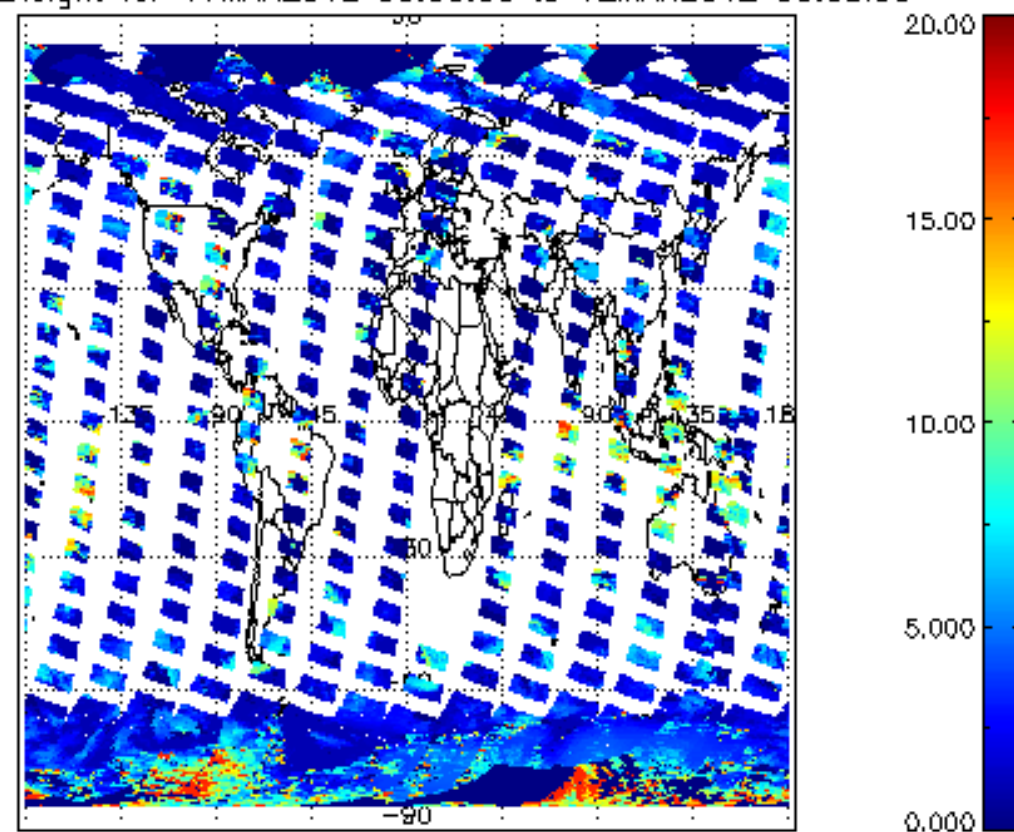
2.3 ADF monitoring

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_082620_20120310_193303_20120312_193303
3	SCI_MF1_AXVIEC20120315_082725_20120311_185617_20120313_185617

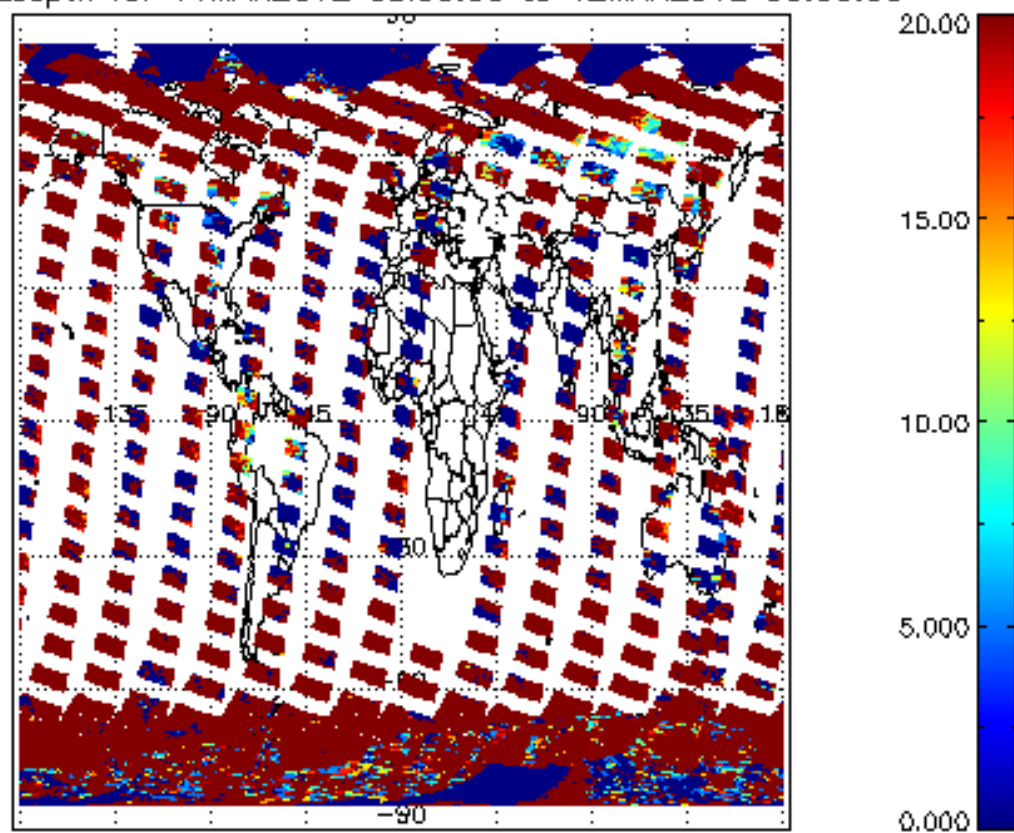
cL_frac for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



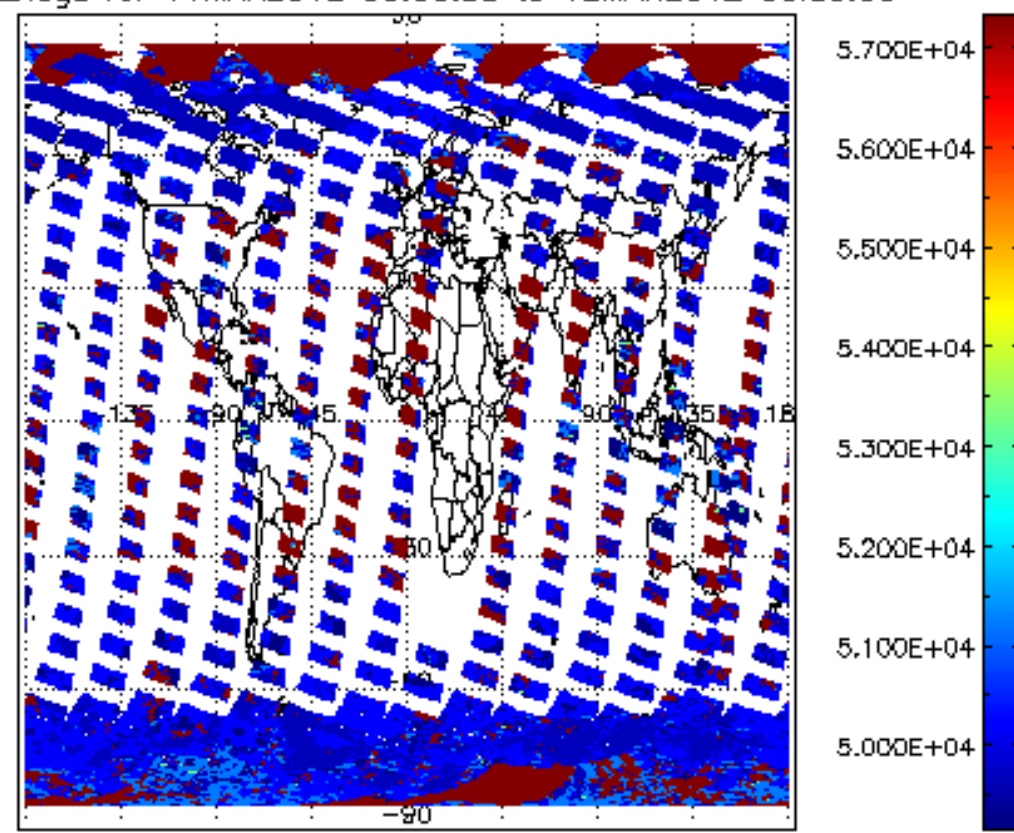
cL_top_height for 11MAR2012 00:00:00 to 12MAR2012 00:00:00

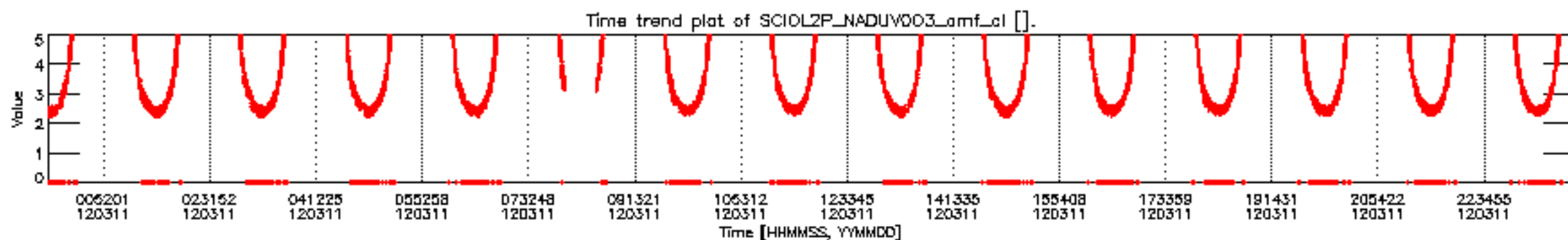
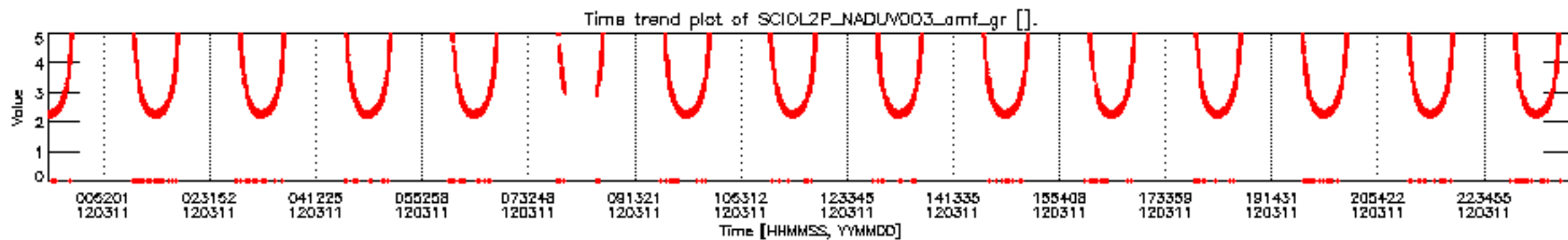
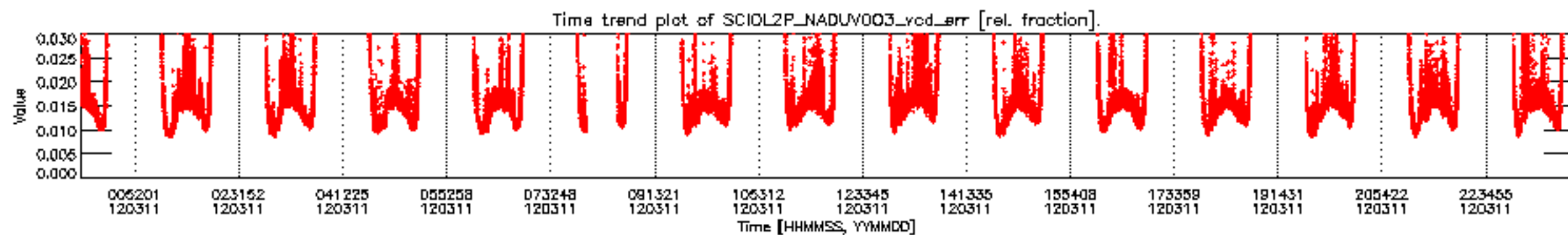
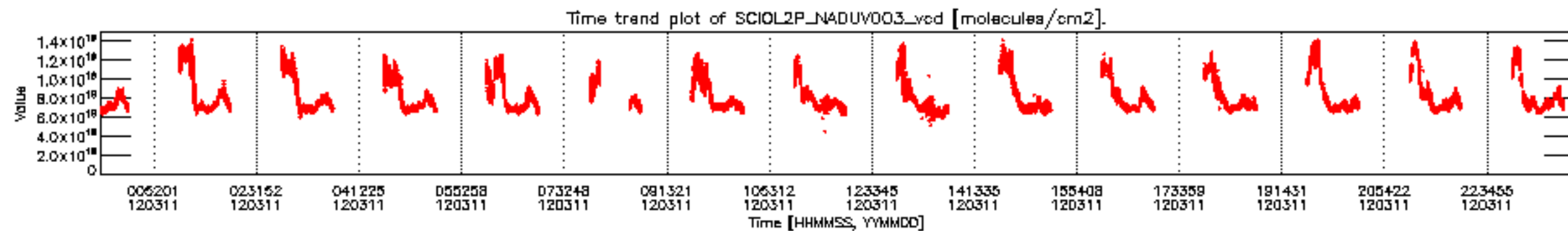


cL_opt_depth for 11MAR2012 00:00:00 to 12MAR2012 00:00:00

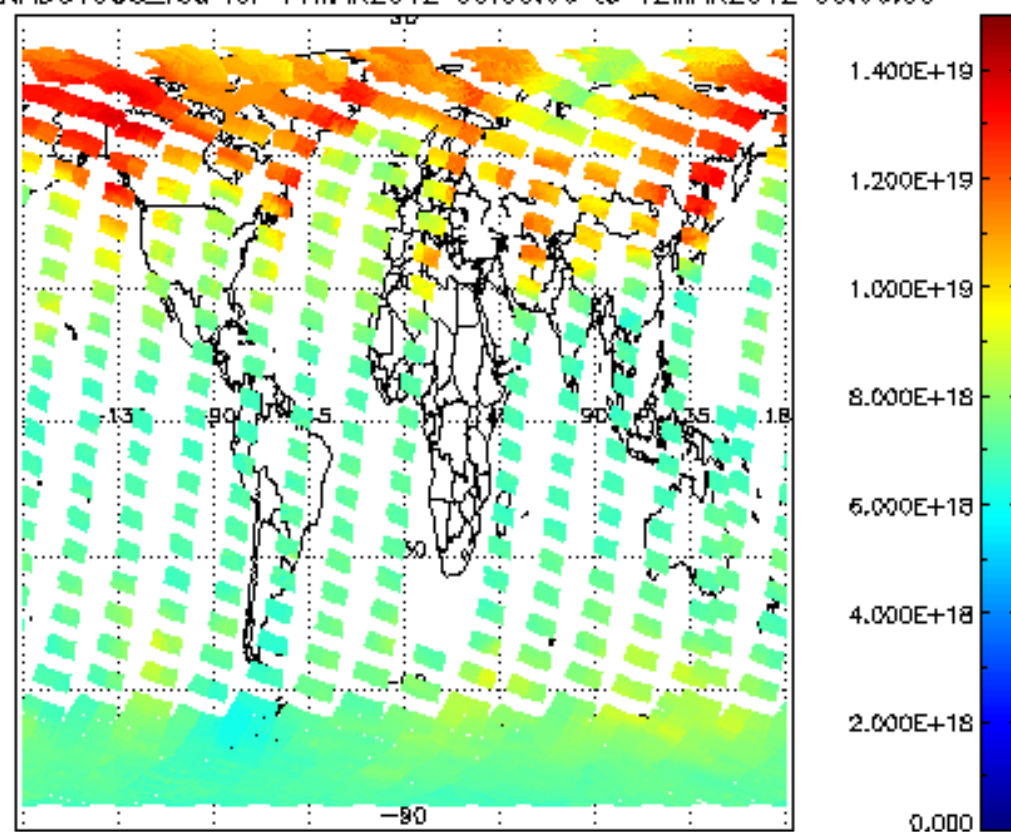


cloud_flags for 11MAR2012 00:00:00 to 12MAR2012 00:00:00

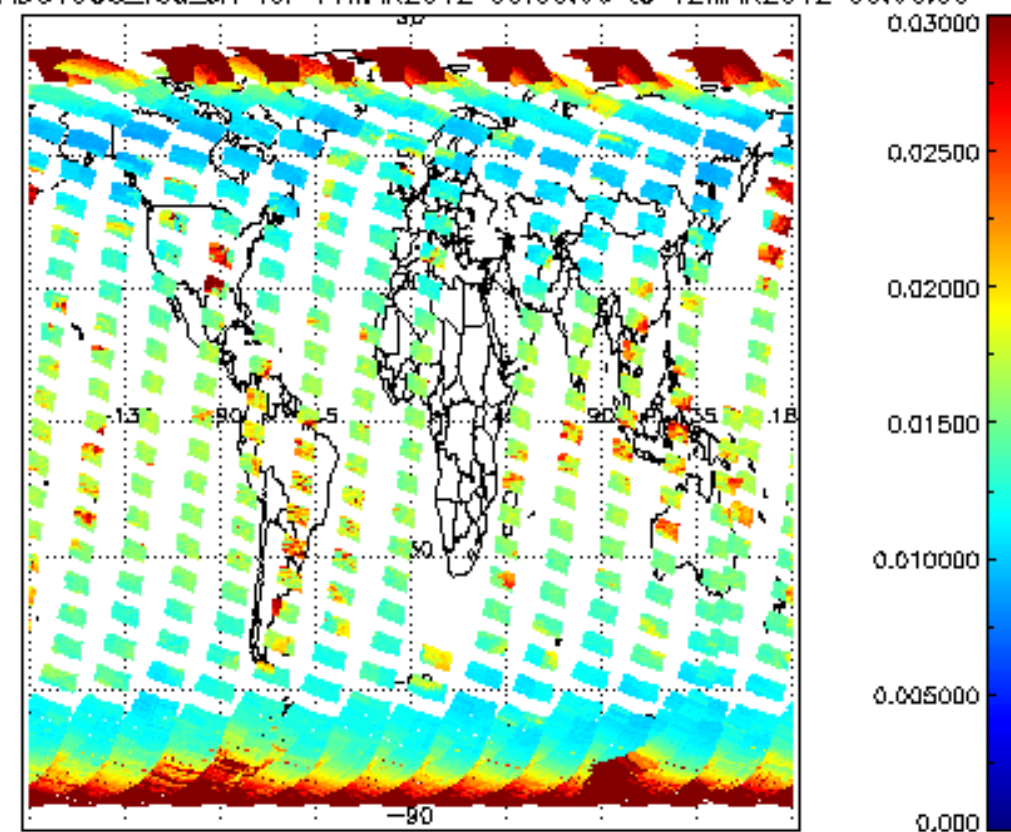




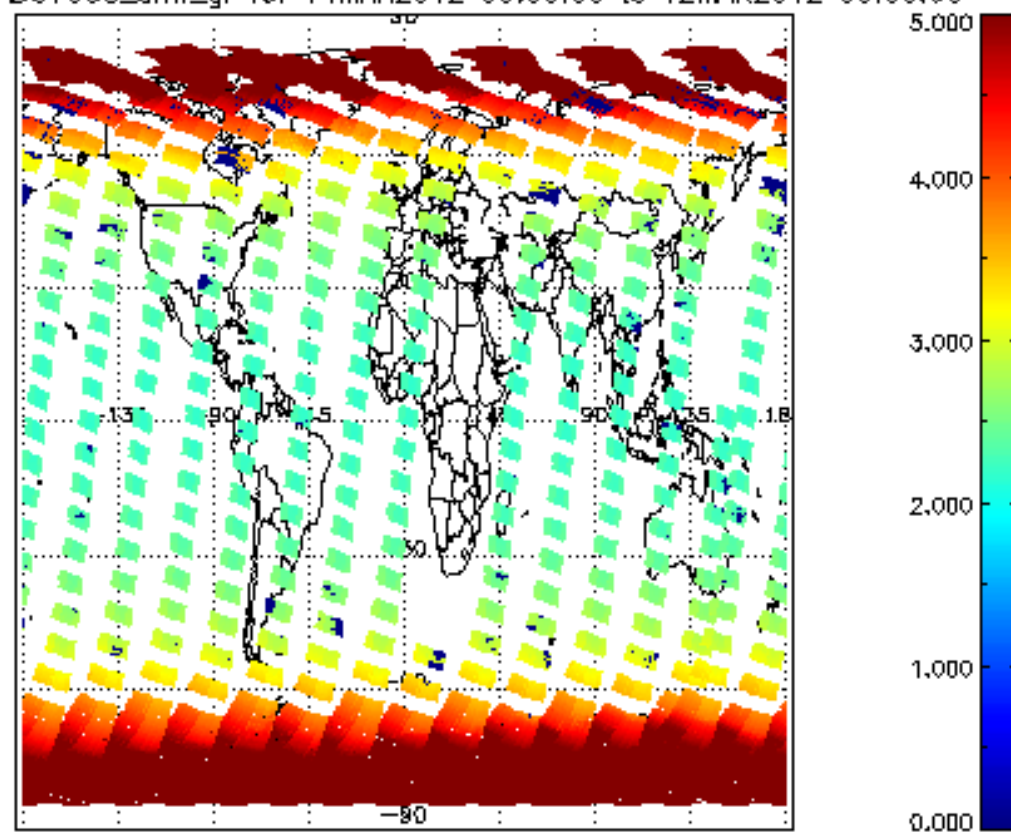
SCIOL2P_NADUV003_vcd for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



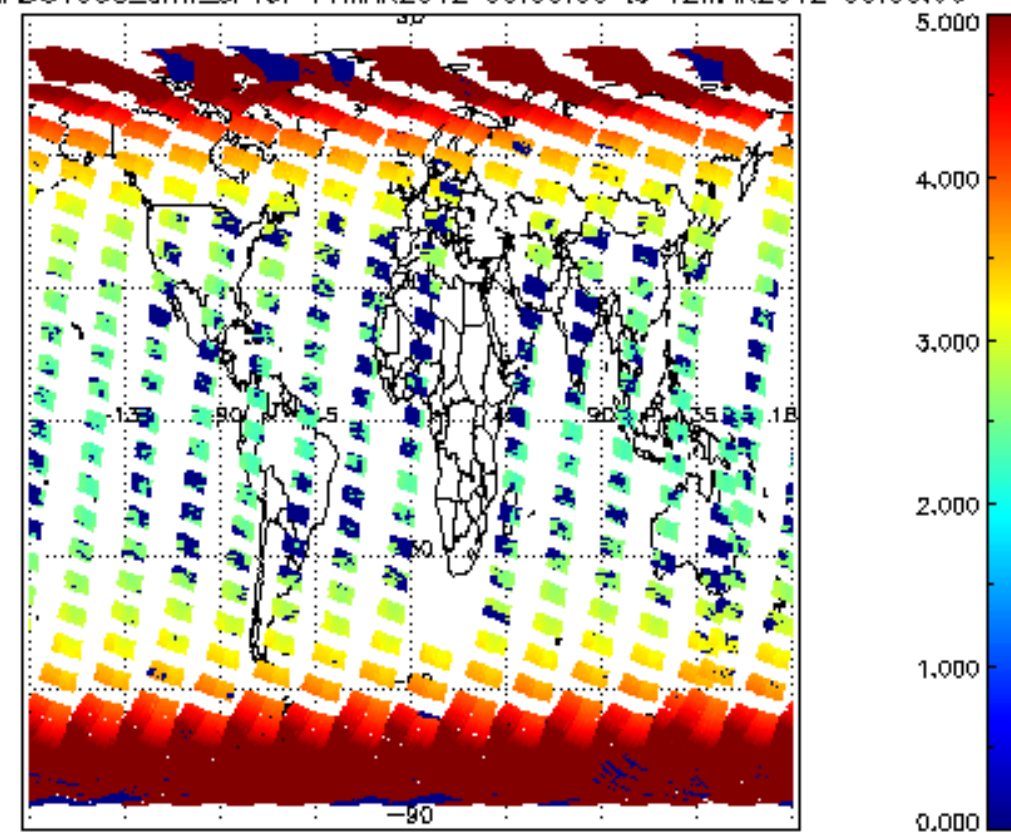
SCIOL2P_NADUV003_vcd_err for 11MAR2012 00:00:00 to 12MAR2012 00:00:00

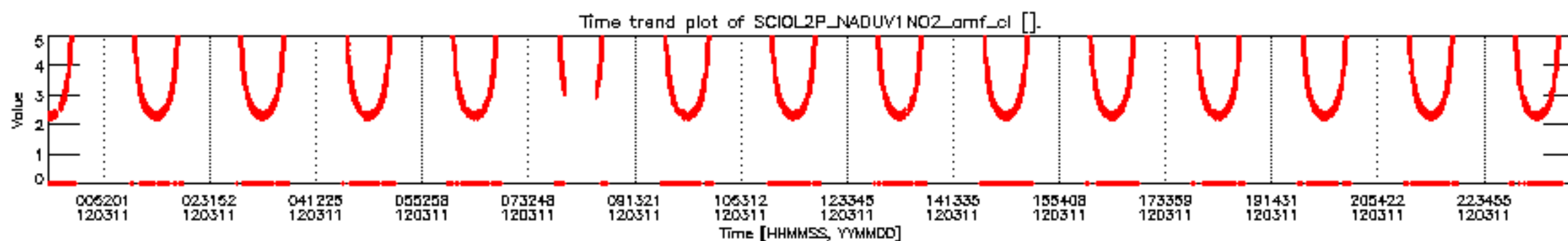
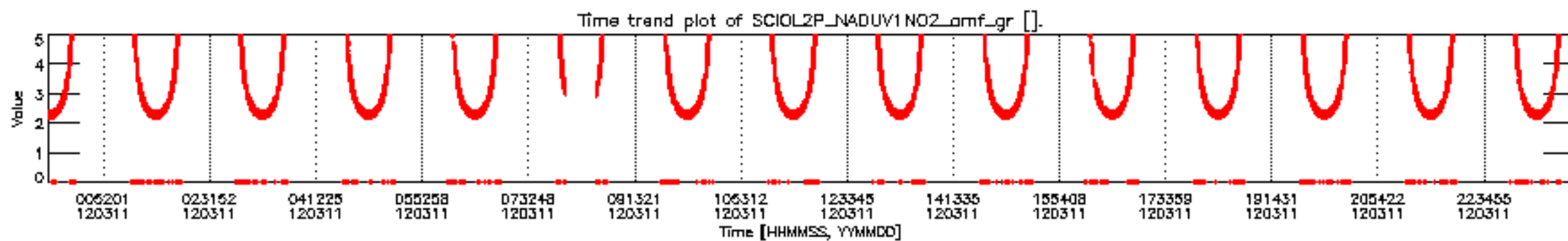
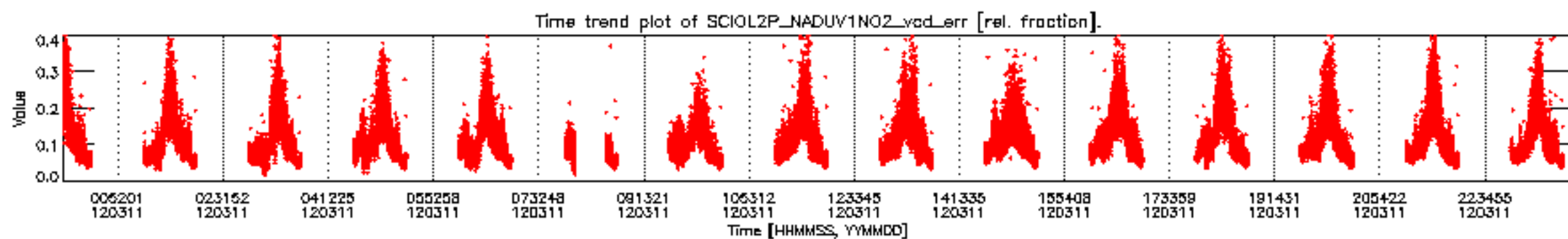
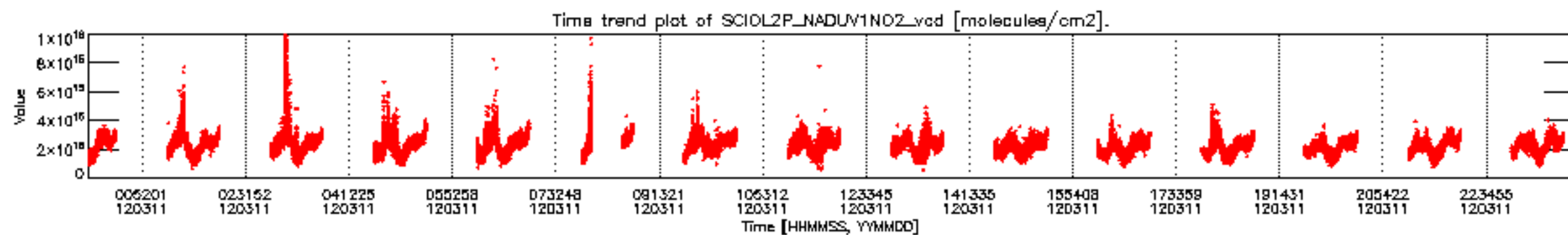


SCIOL2P_NADUV003_amf_gr for 11MAR2012 00:00:00 to 12MAR2012 00:00:00

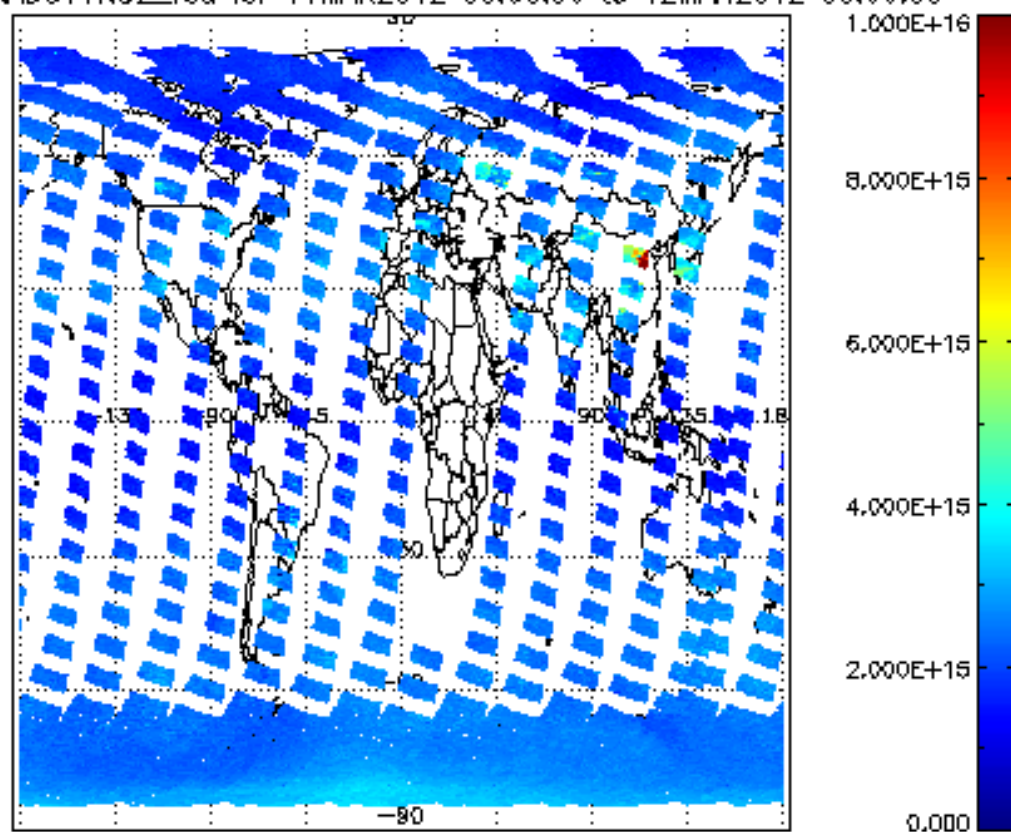


SCIOL2P_NADUV003_amf_cl for 11MAR2012 00:00:00 to 12MAR2012 00:00:00

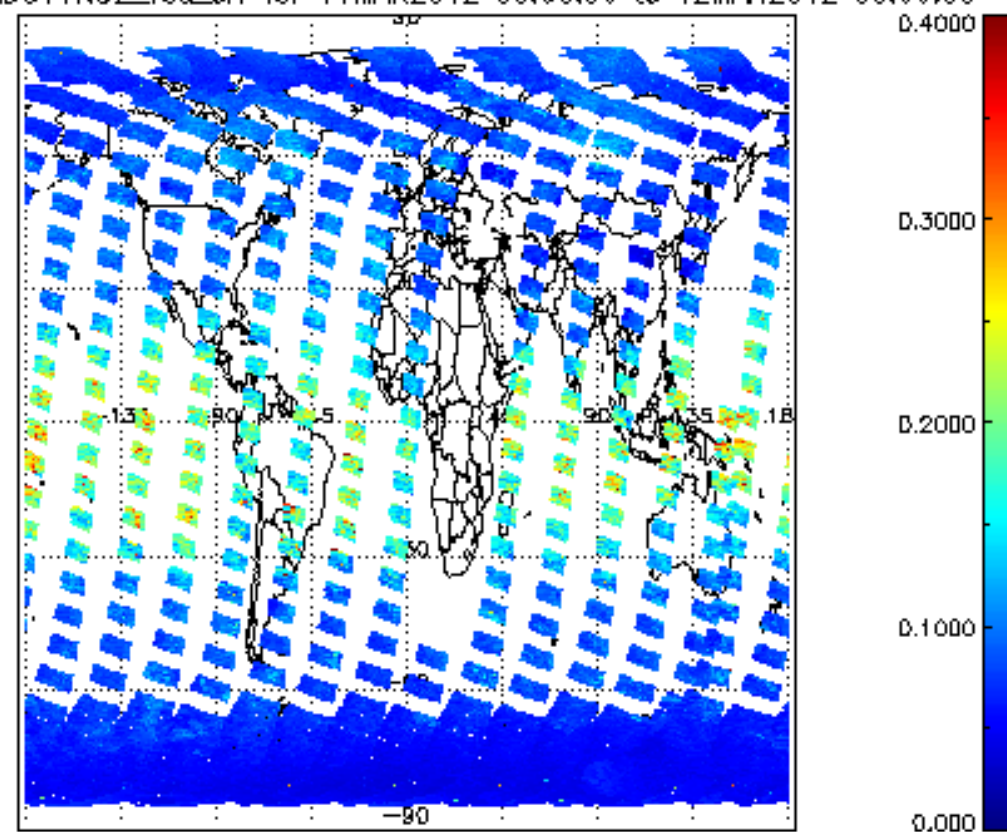




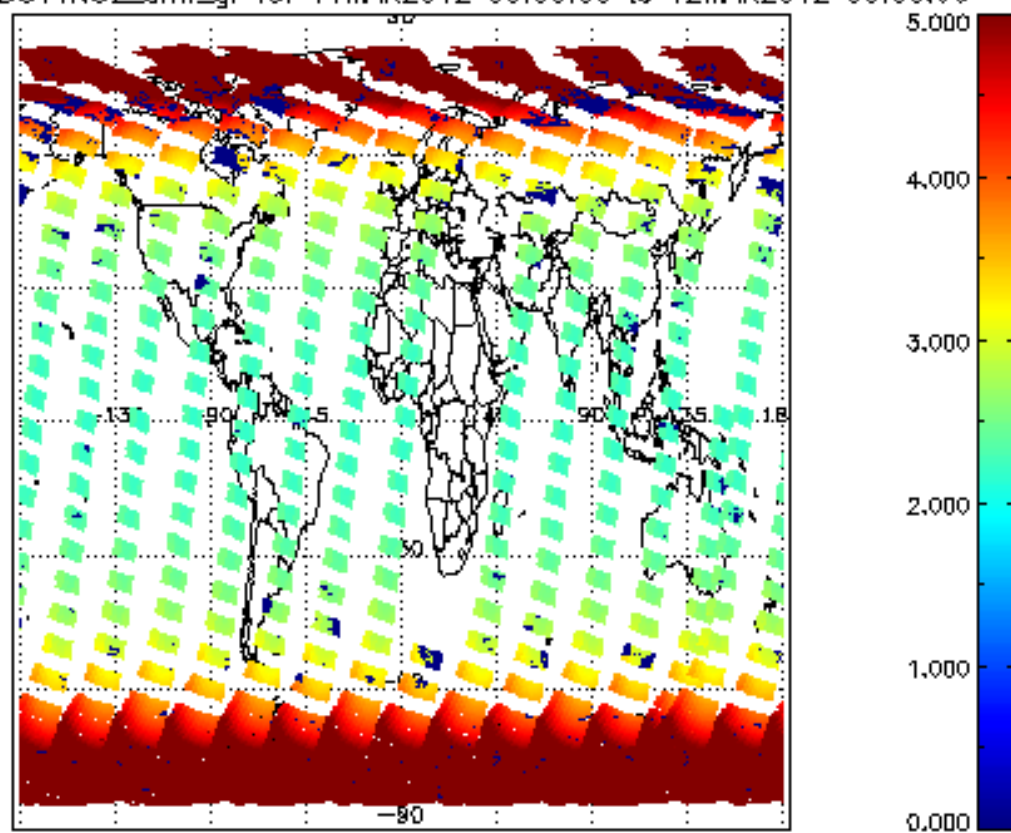
SCIOL2P_NADUV1NO2_vcd for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



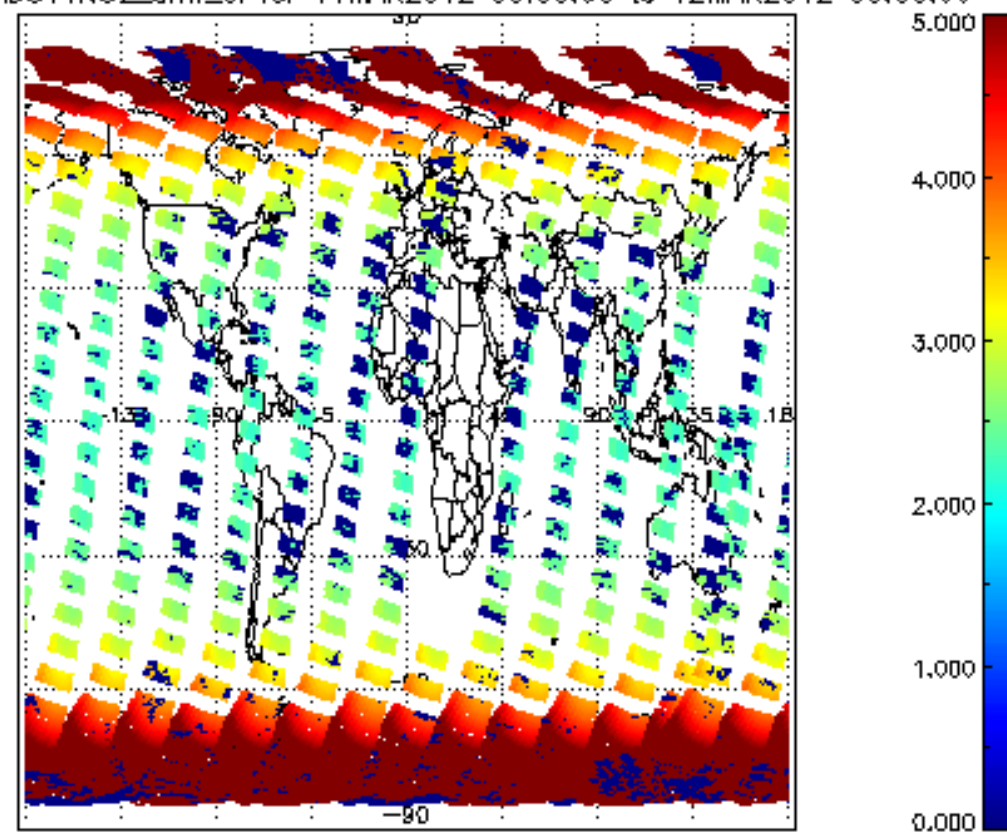
SCIOL2P_NADUV1NO2_vcdLerr for 11MAR2012 00:00:00 to 12MAR2012 00:00:00

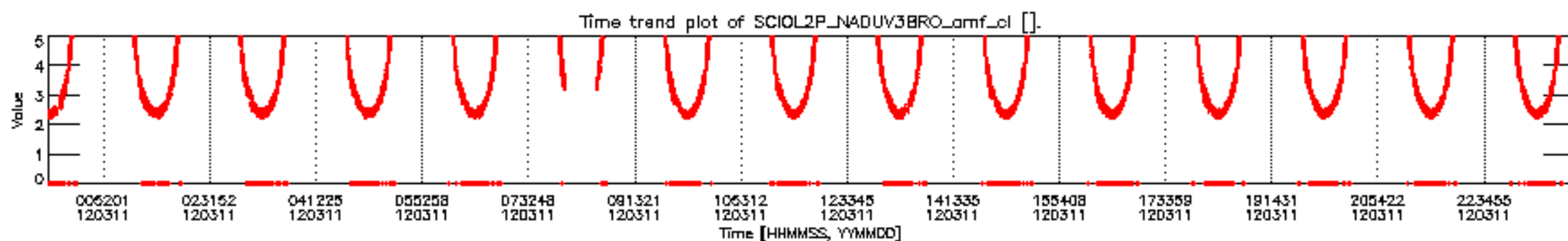
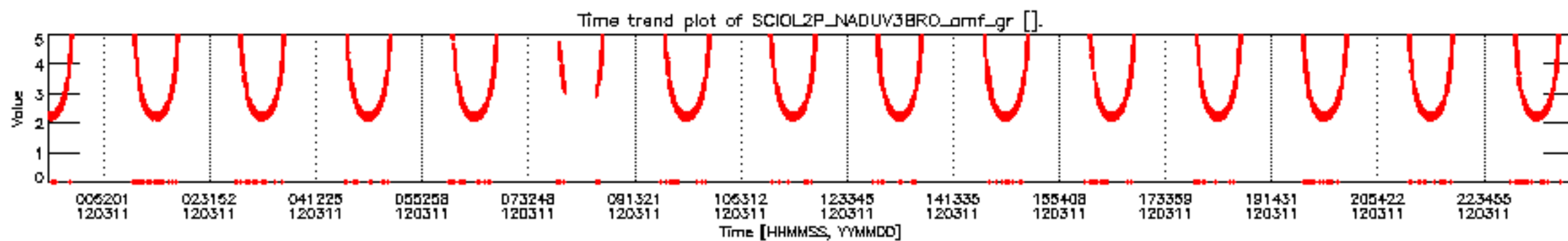
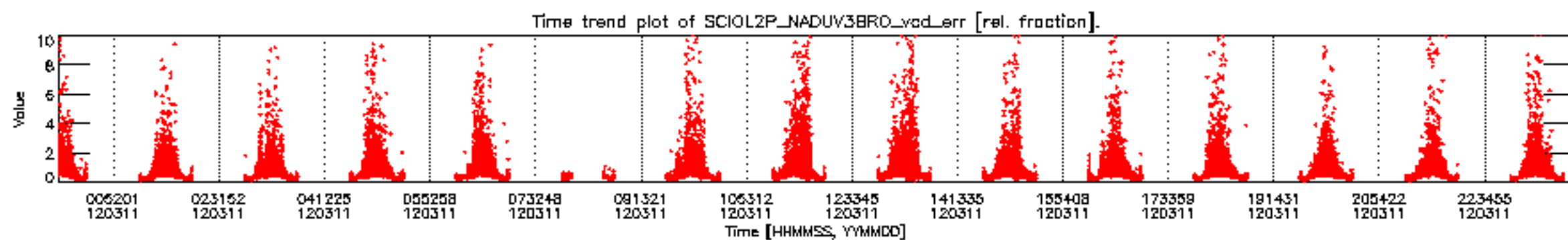
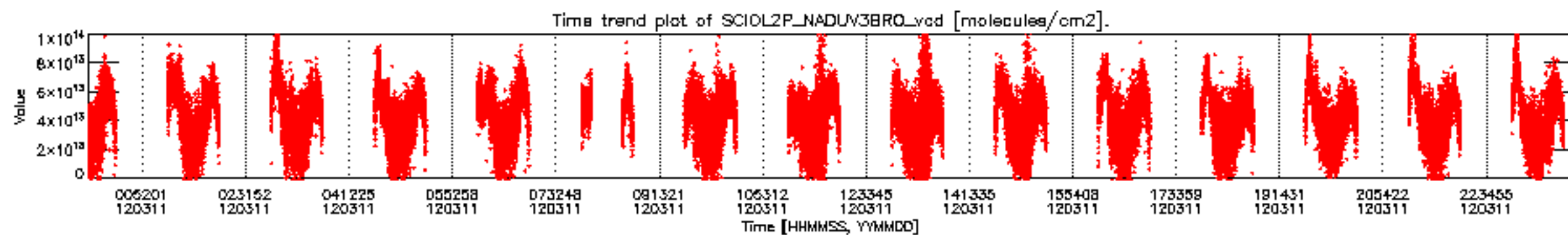


SCIOL2P_NADUV1NO2_amf_gr for 11MAR2012 00:00:00 to 12MAR2012 00:00:00

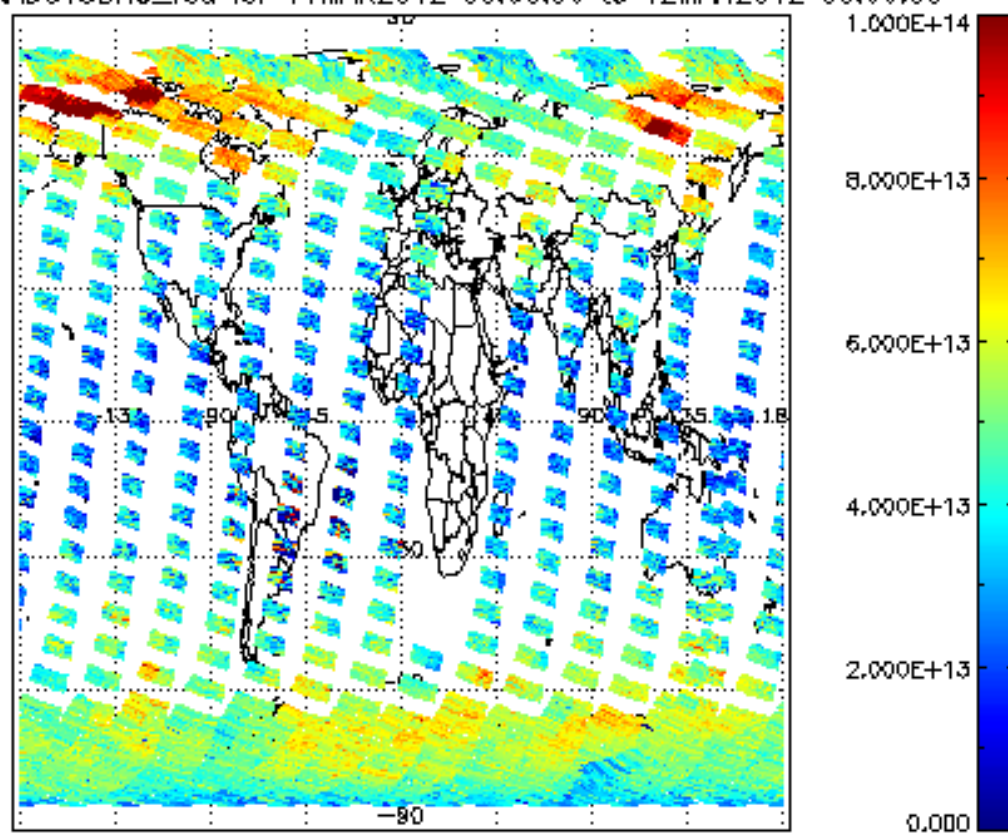


SCIOL2P_NADUV1NO2_amf_cl for 11MAR2012 00:00:00 to 12MAR2012 00:00:00

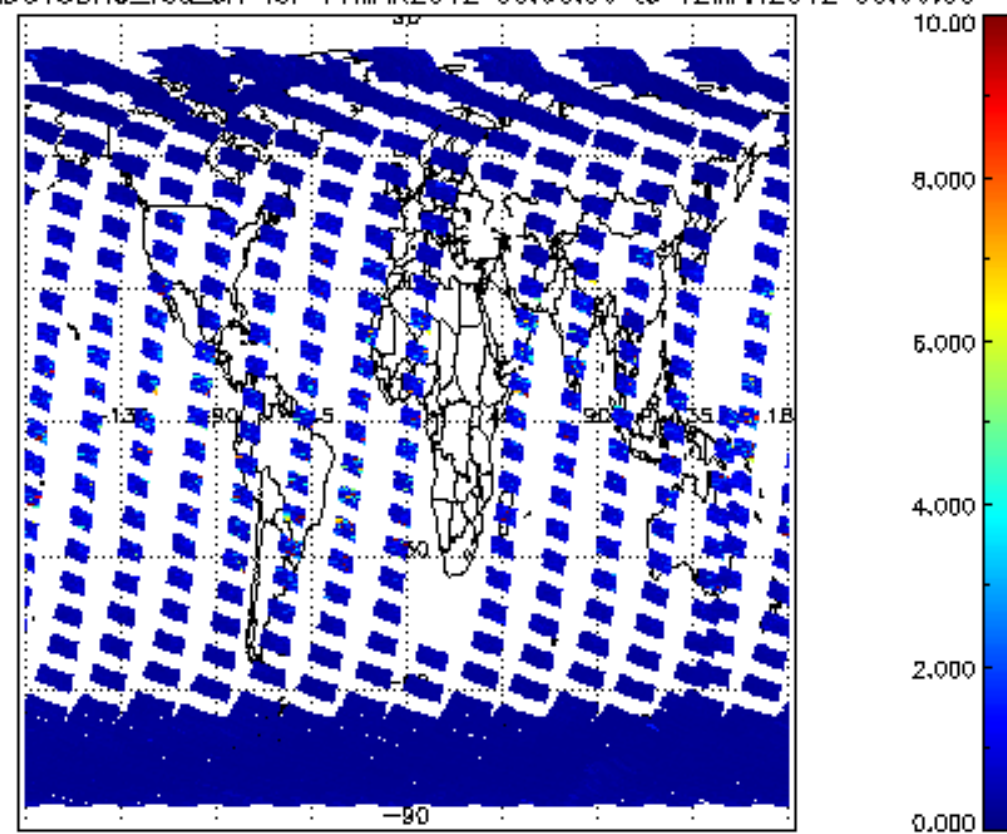




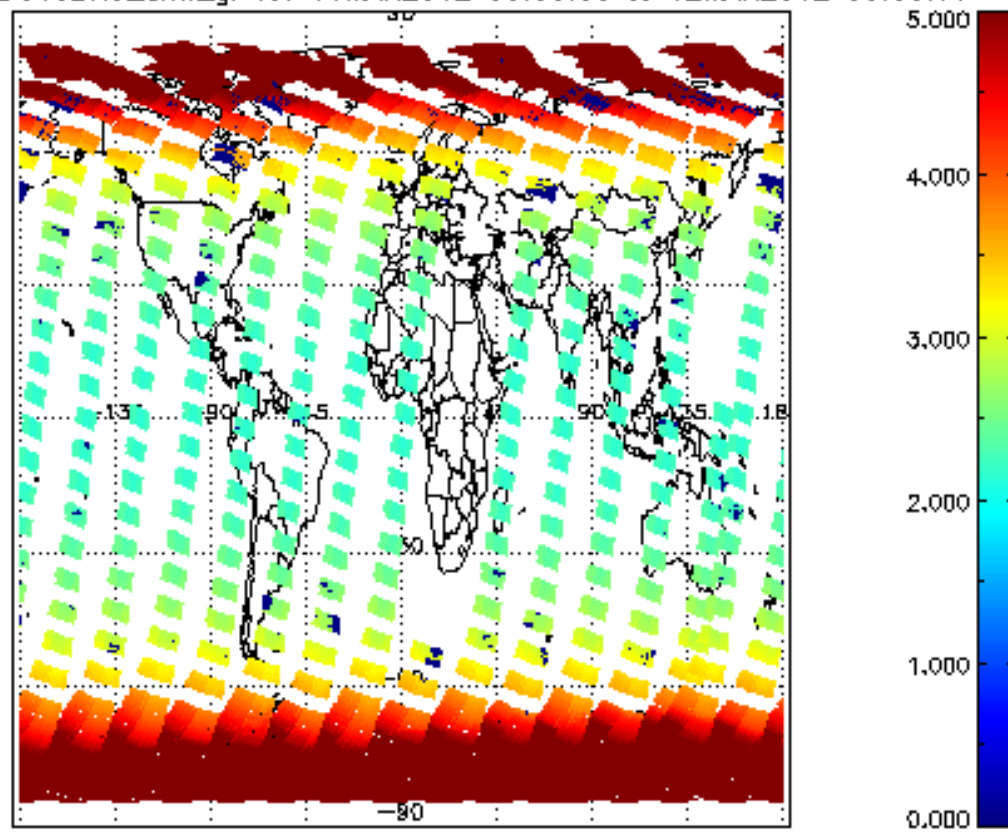
SCIOL2P_NADUV3BRO_vcd for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



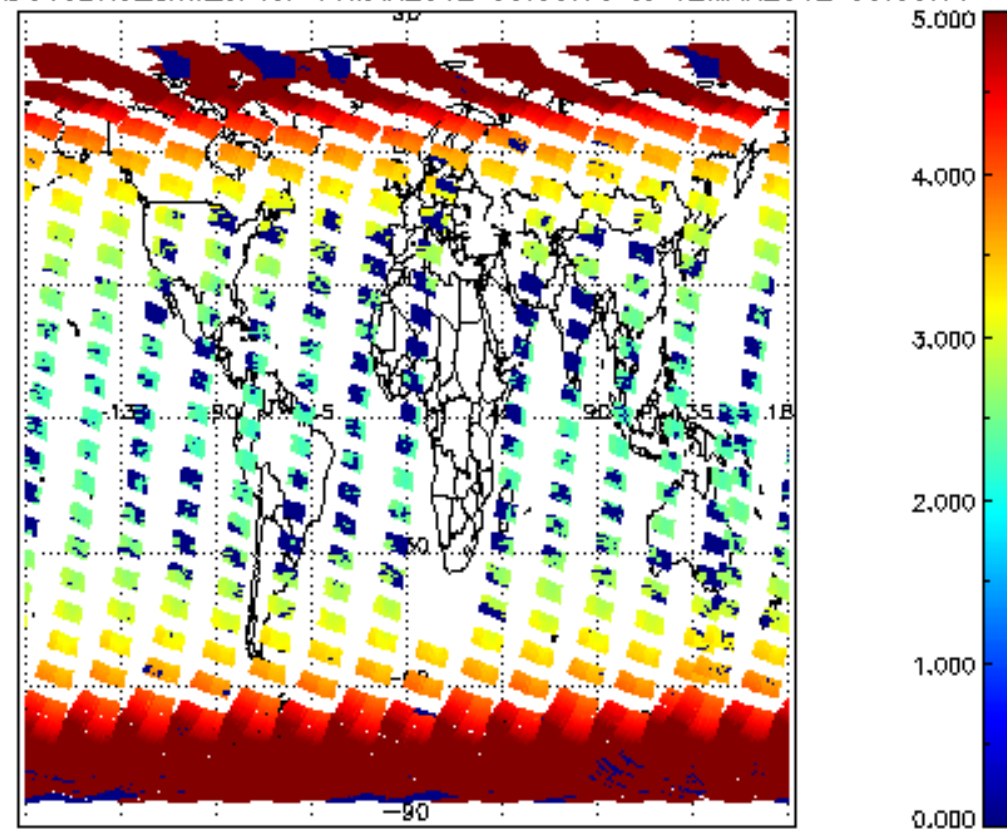
SCIOL2P_NADUV3BRO_vcdLerr for 11MAR2012 00:00:00 to 12MAR2012 00:00:00

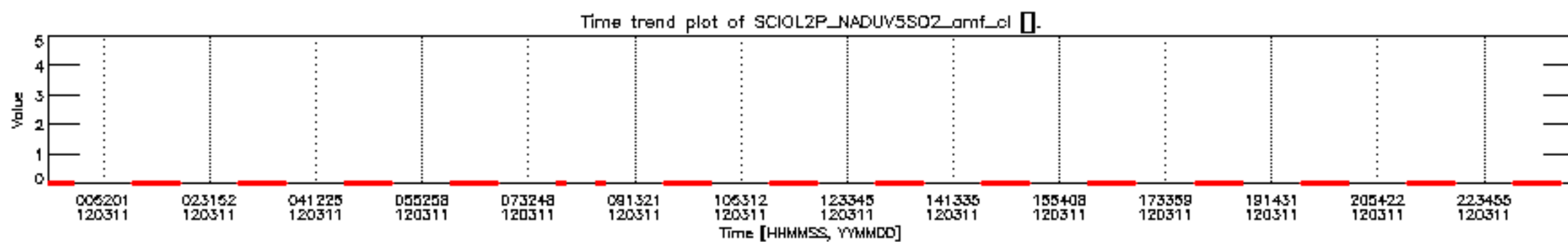
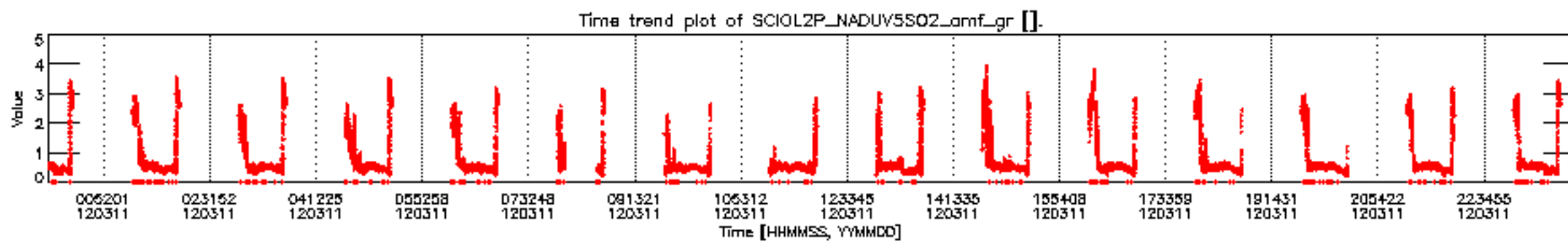
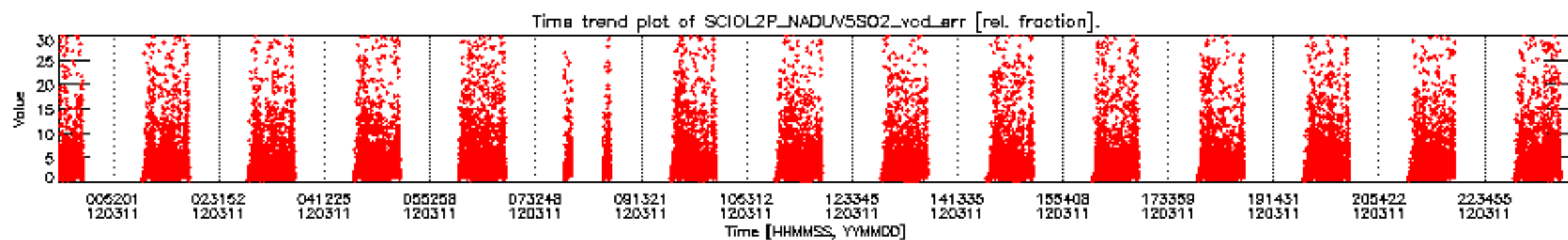
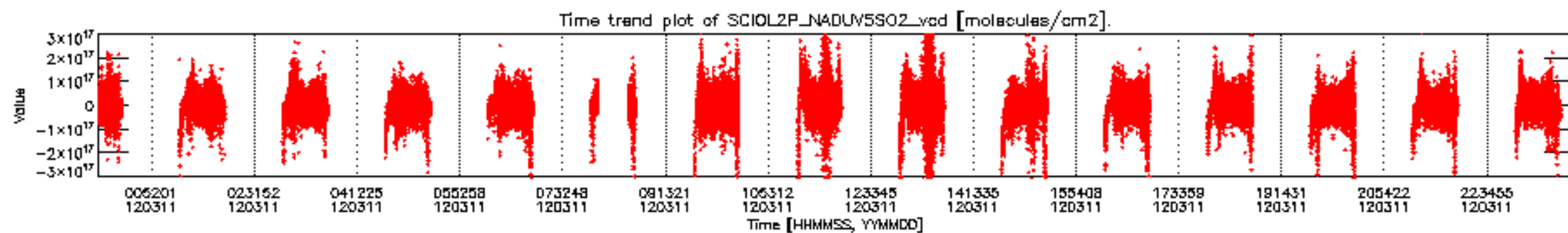


SCIOL2P_NADUV3BRO_amf_gr for 11MAR2012 00:00:00 to 12MAR2012 00:00:00

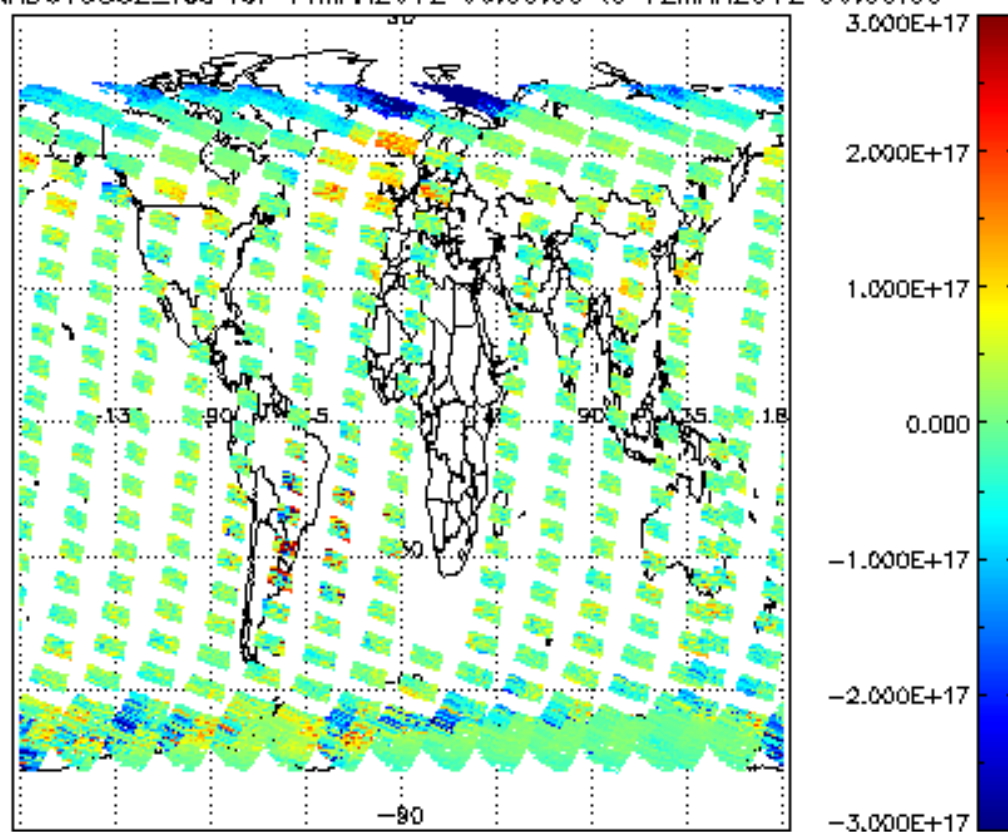


SCIOL2P_NADUV3BRO_amf_cl for 11MAR2012 00:00:00 to 12MAR2012 00:00:00

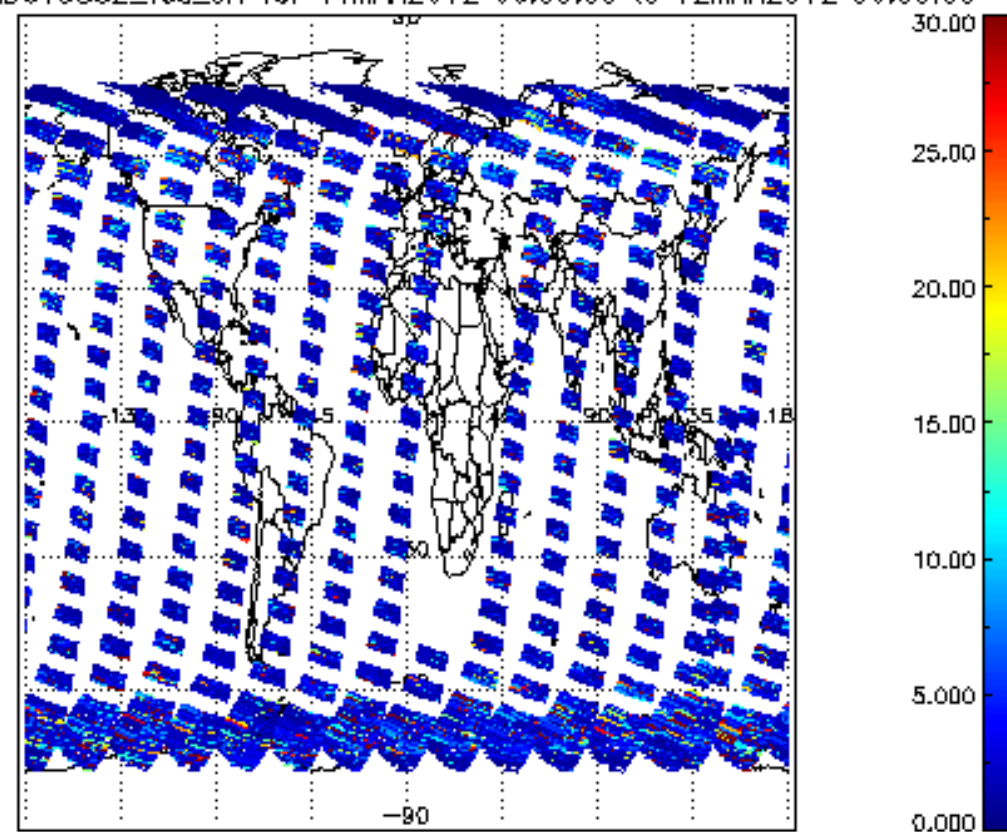




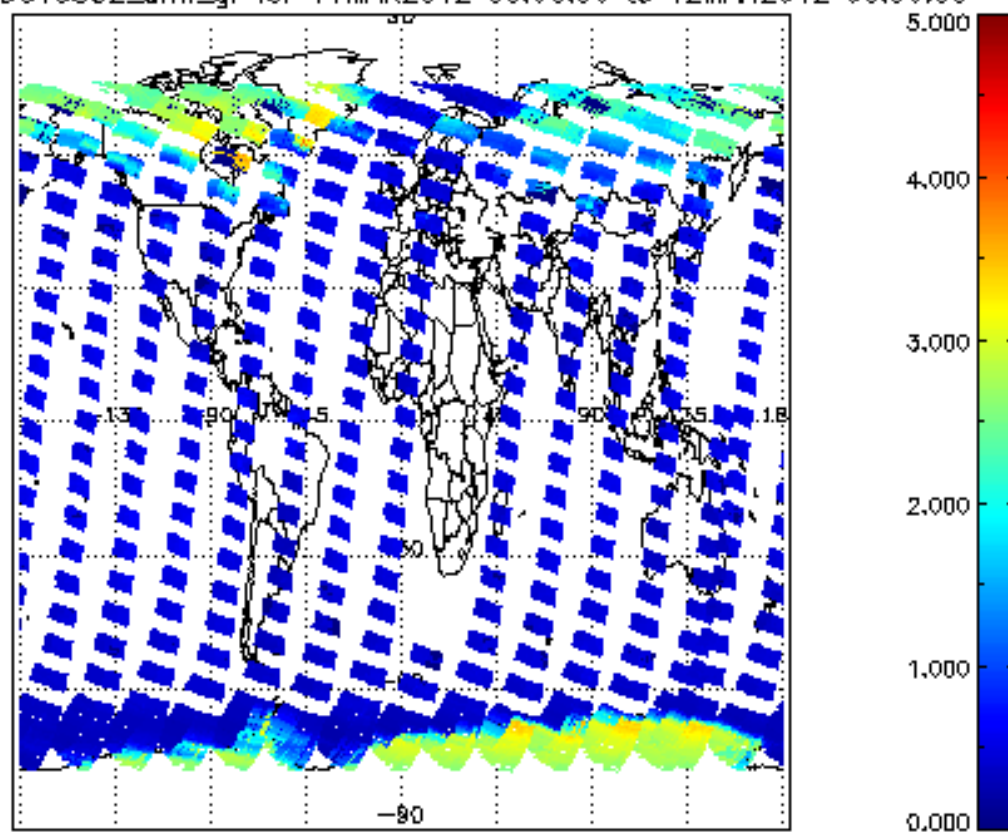
SCIOL2P_NADUV5S02_vcd for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



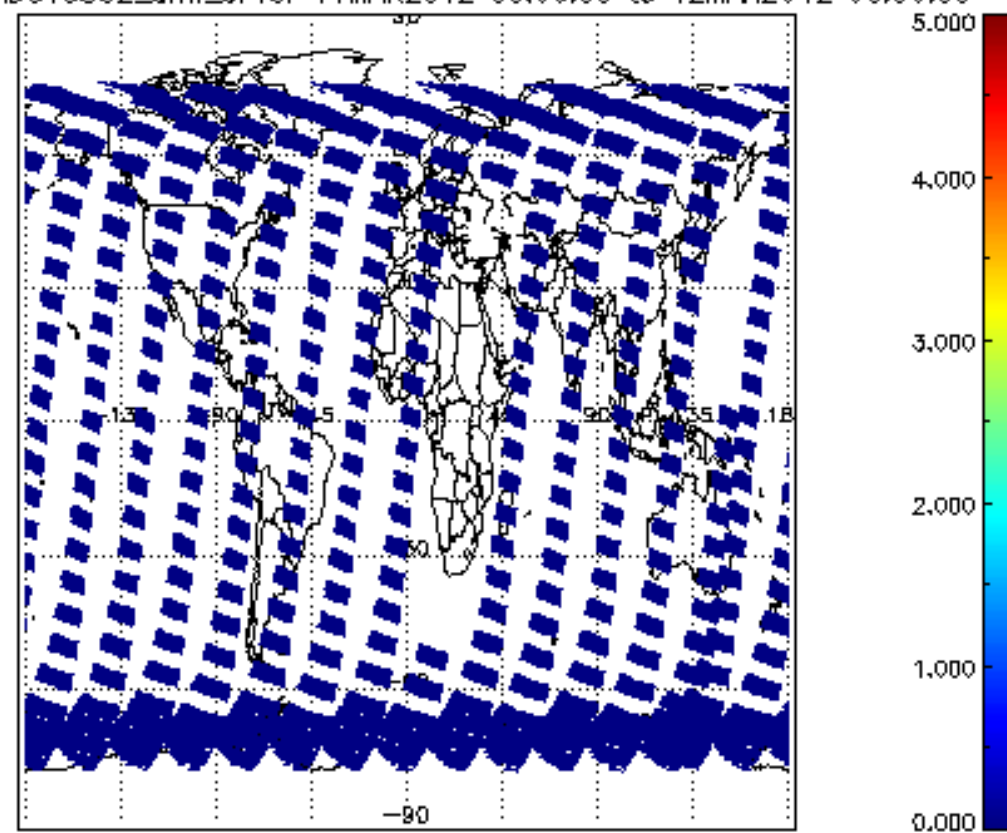
SCIOL2P_NADUV5S02_vcd_err for 11MAR2012 00:00:00 to 12MAR2012 00:00:00

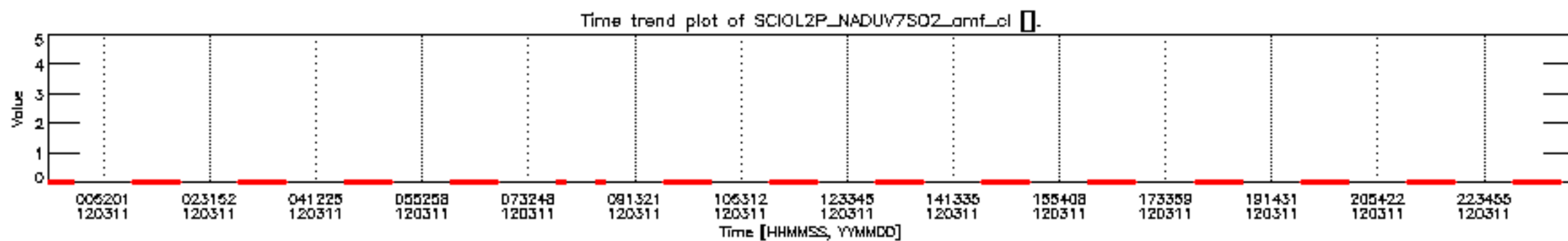
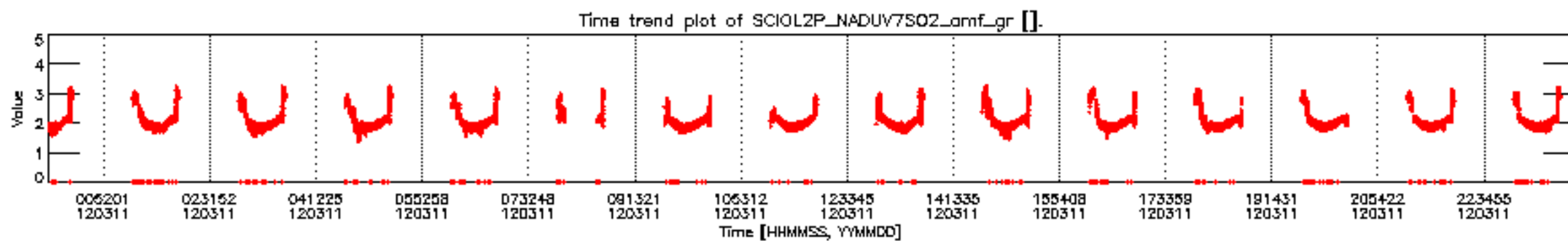
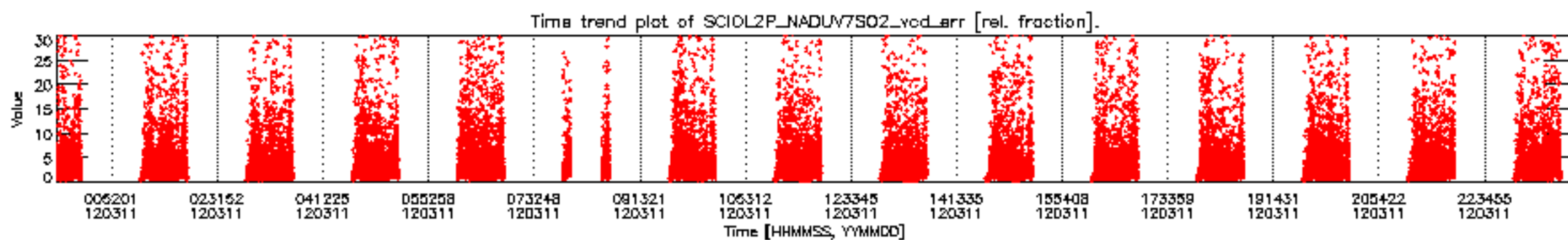
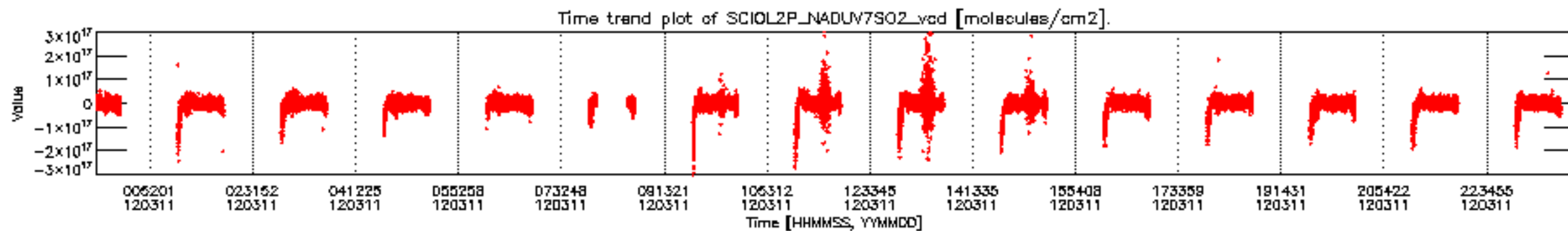


SCIOL2P_NADUV5S02_amf_gr for 11MAR2012 00:00:00 to 12MAR2012 00:00:00

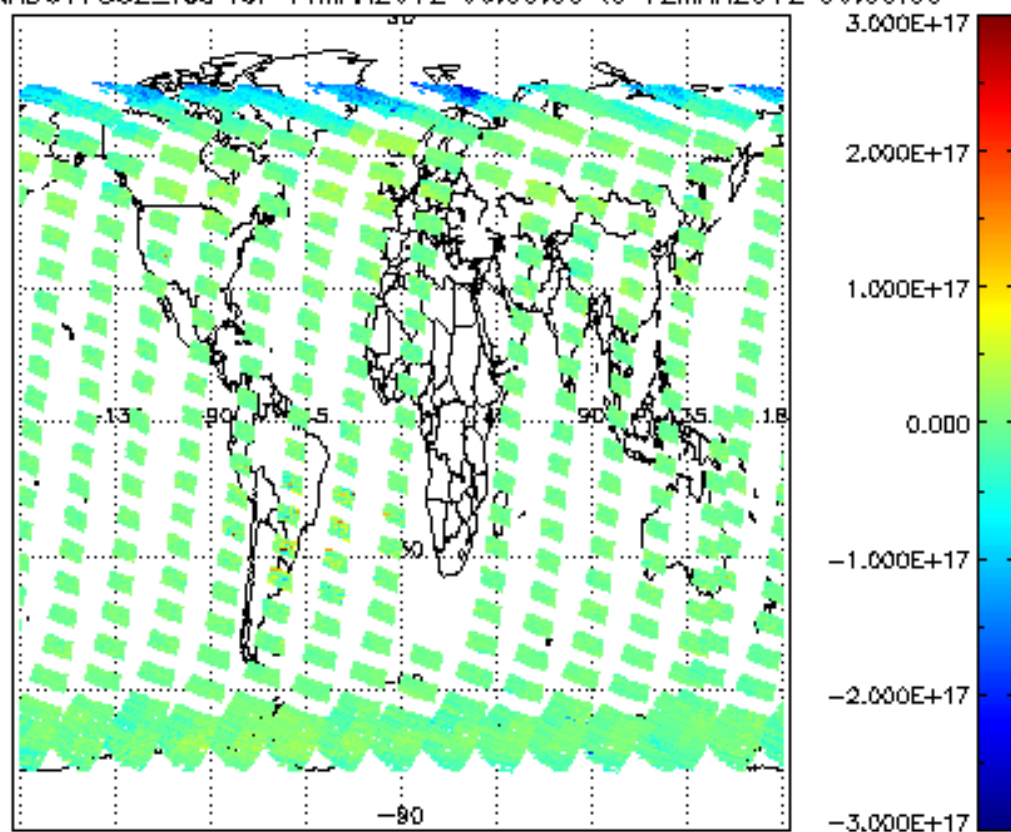


SCIOL2P_NADUV5S02_amf_cl for 11MAR2012 00:00:00 to 12MAR2012 00:00:00

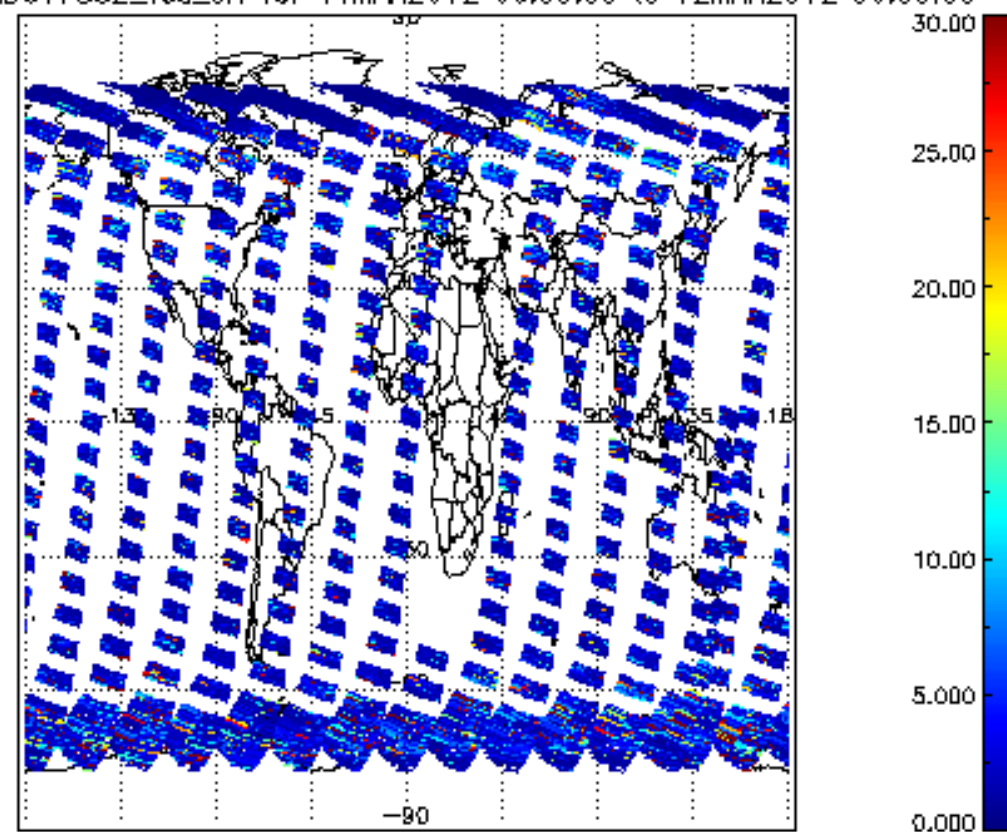




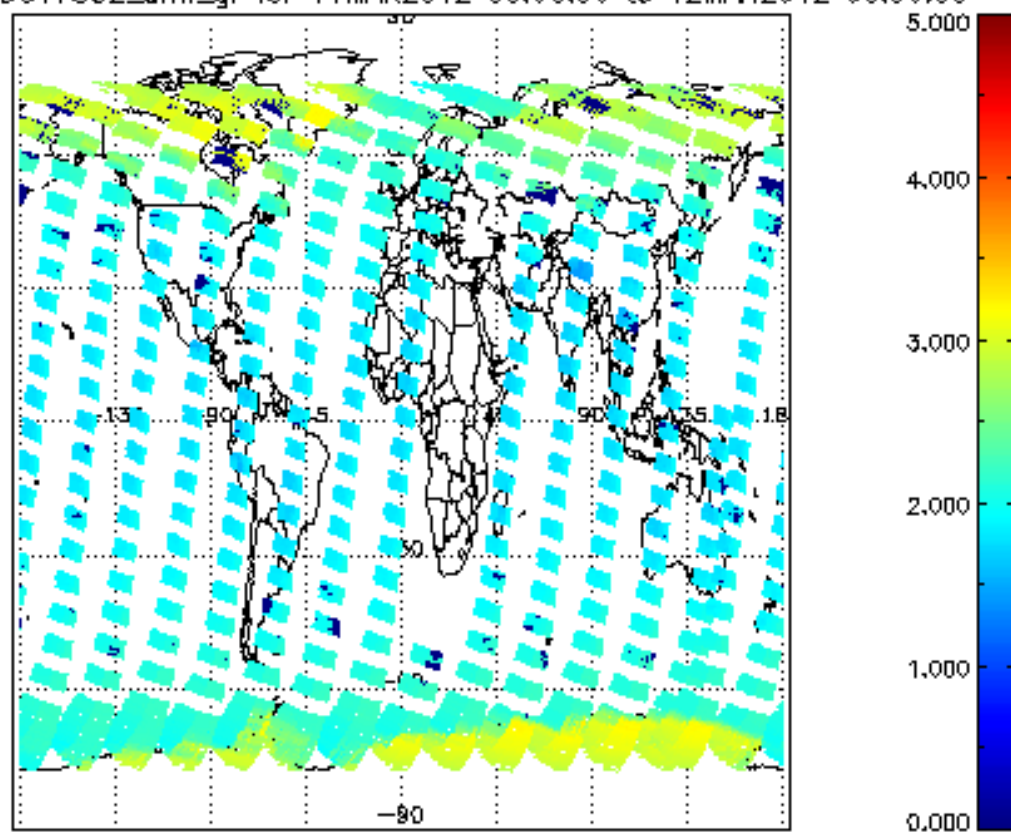
SCIOL2P_NADUV7S02_vcd for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



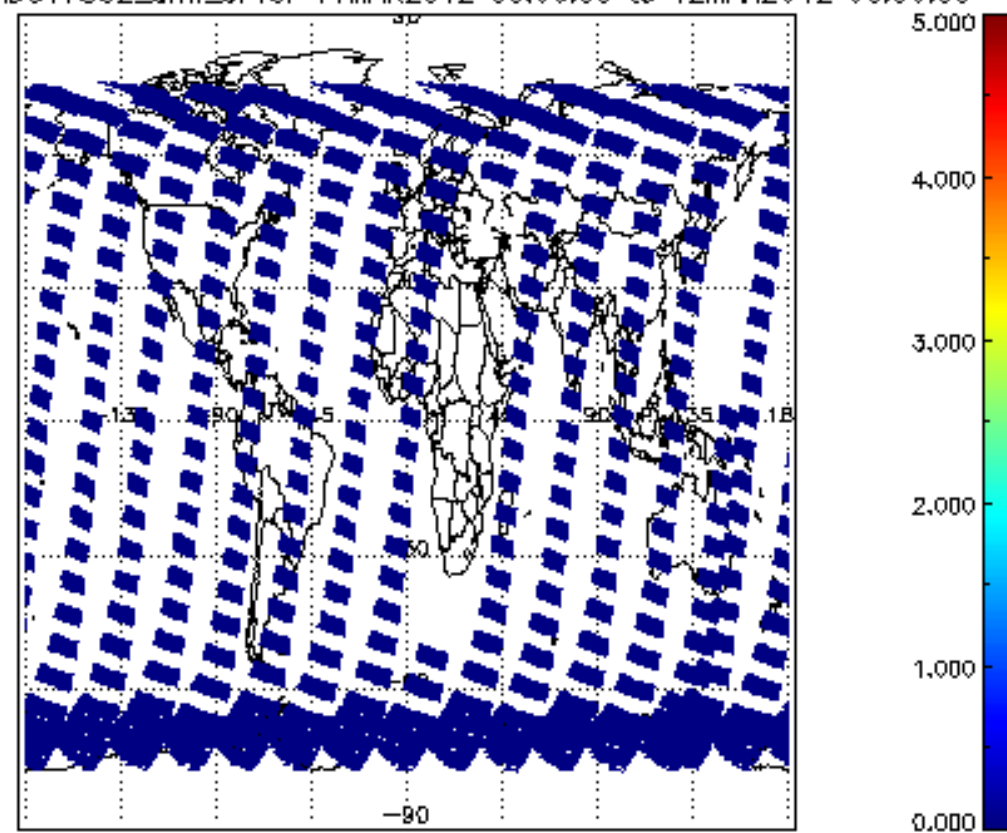
SCIOL2P_NADUV7S02_vcd_err for 11MAR2012 00:00:00 to 12MAR2012 00:00:00

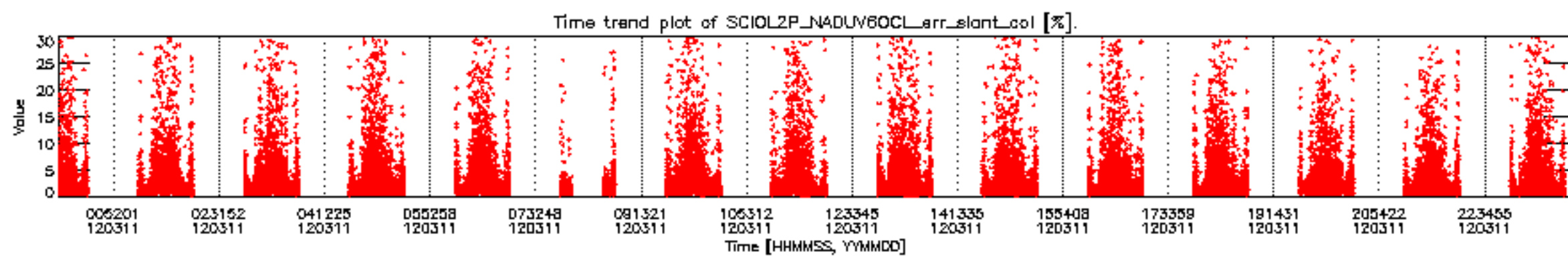
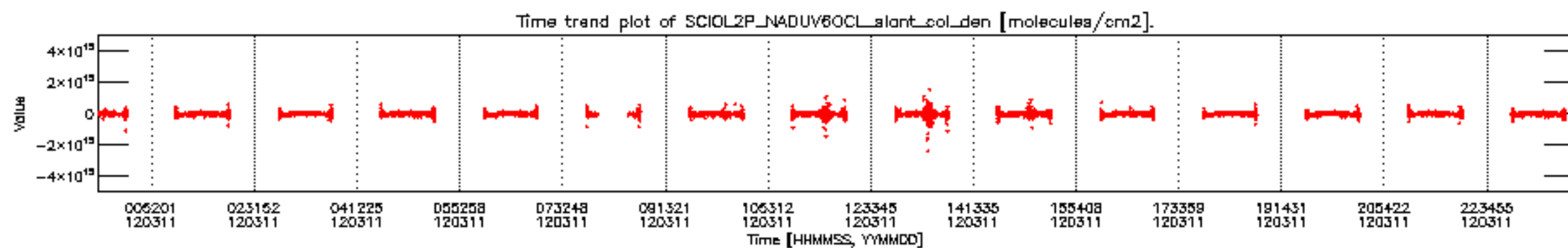


SCIOL2P_NADUV7S02_amf_gr for 11MAR2012 00:00:00 to 12MAR2012 00:00:00

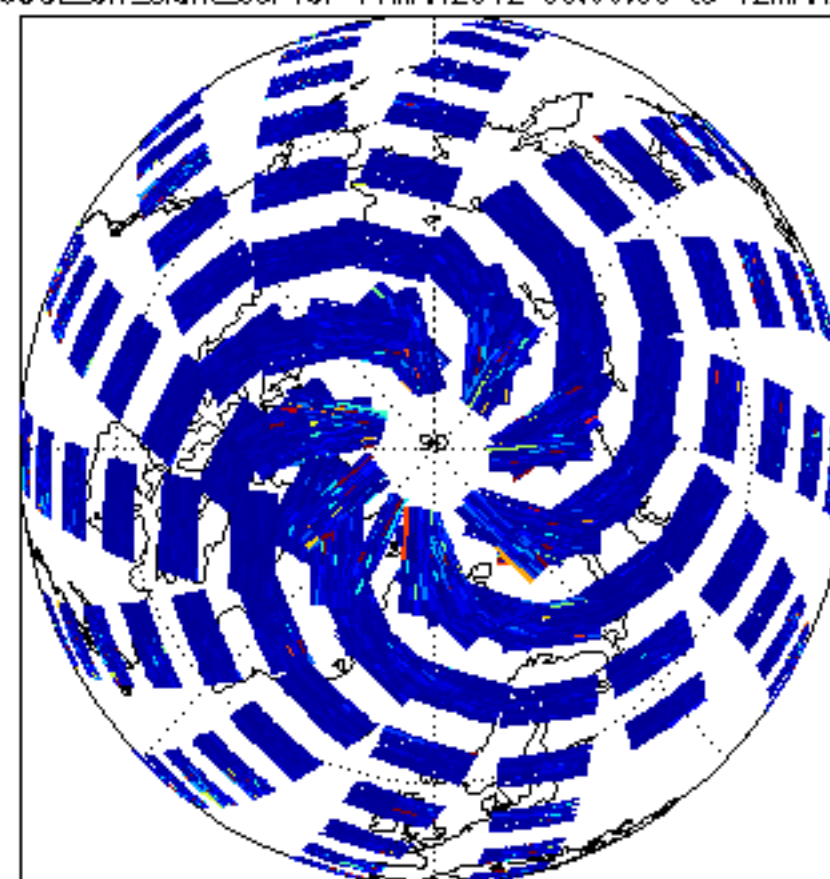
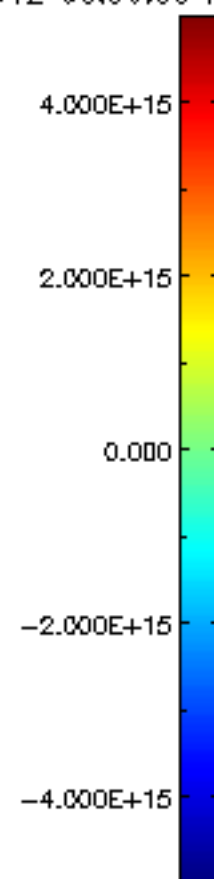
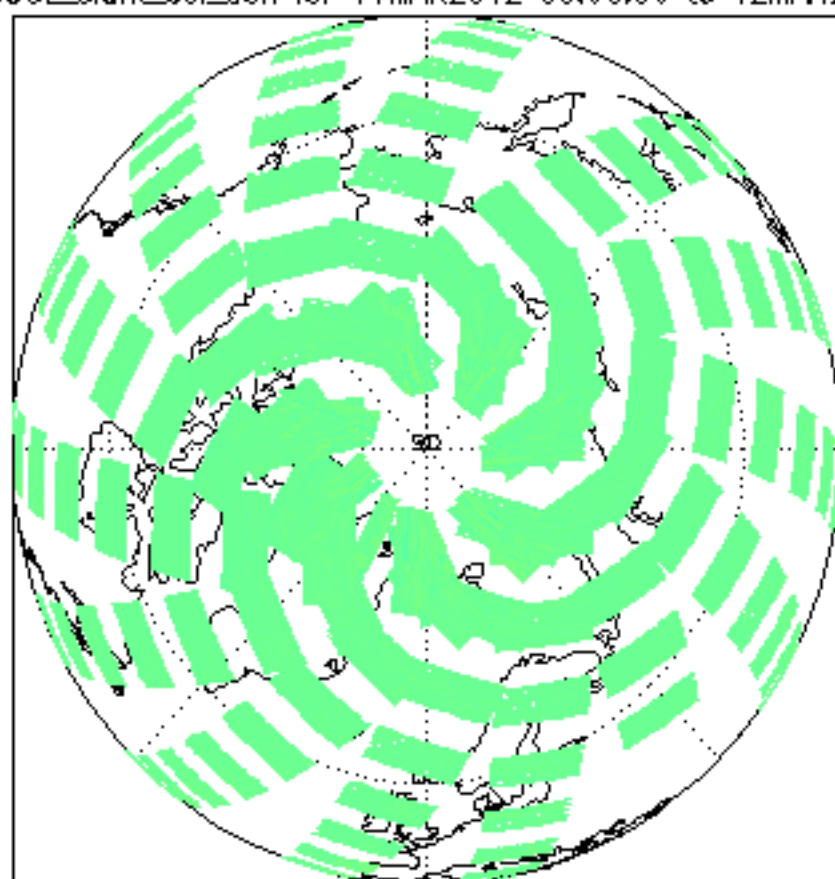


SCIOL2P_NADUV7S02_amf_cl for 11MAR2012 00:00:00 to 12MAR2012 00:00:00

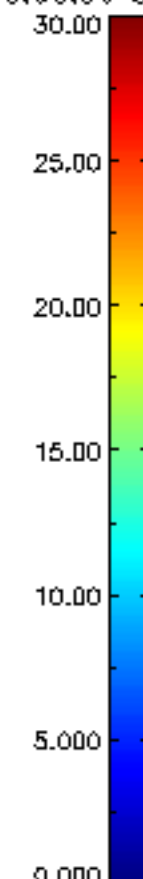
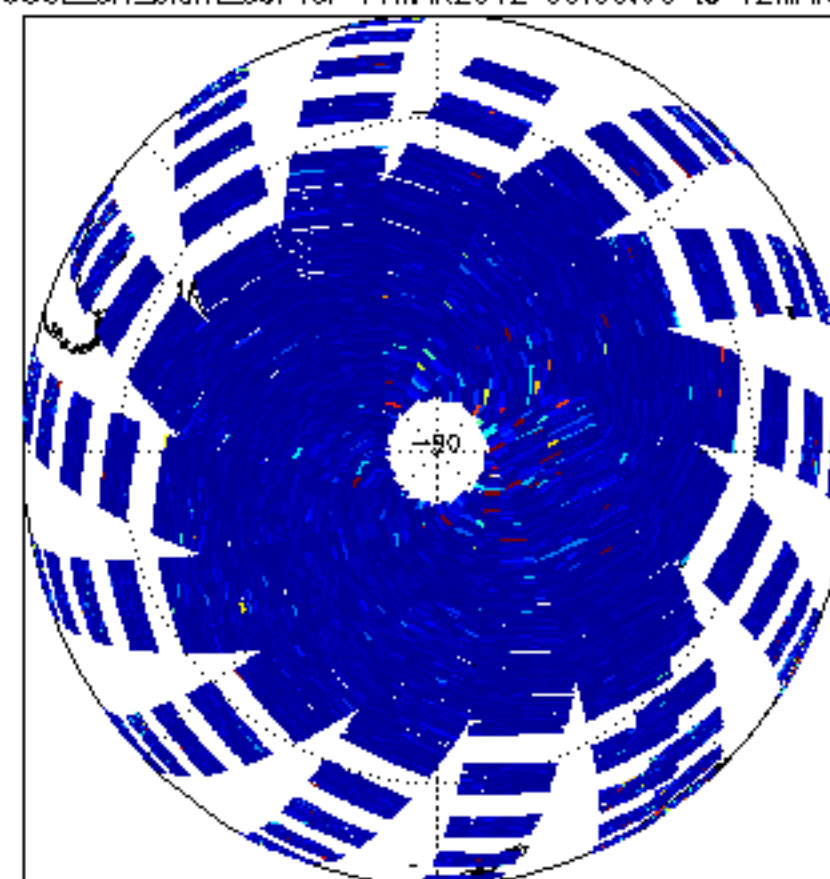
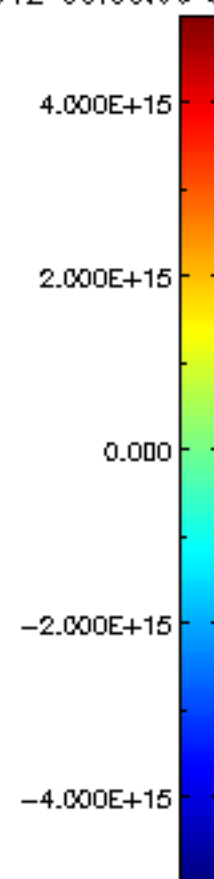
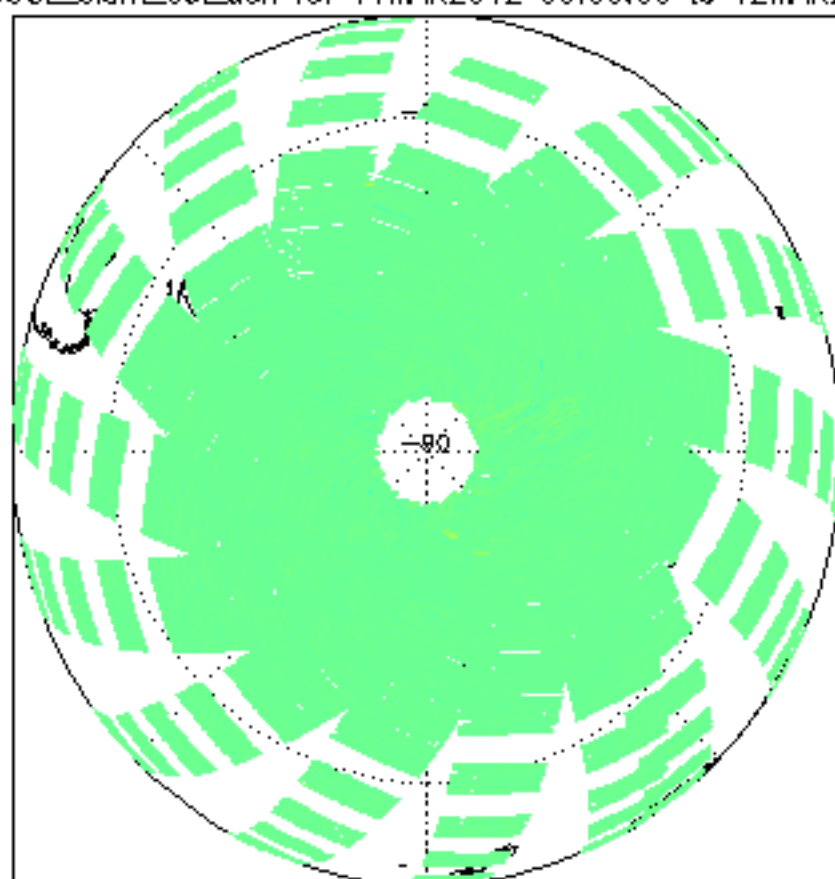


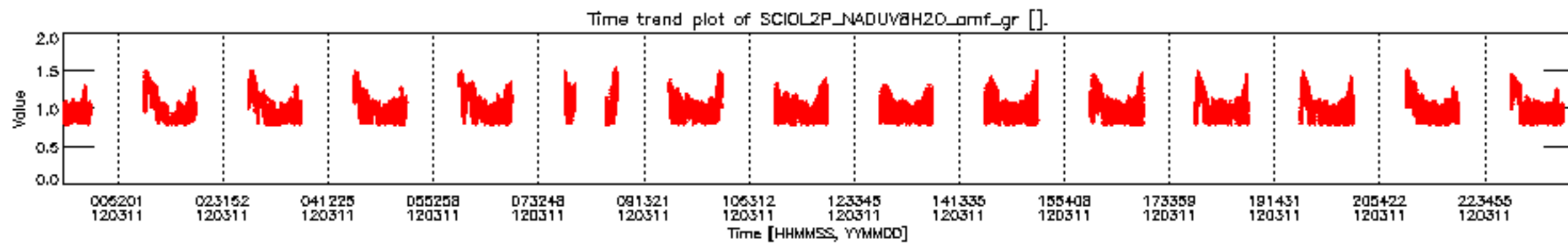
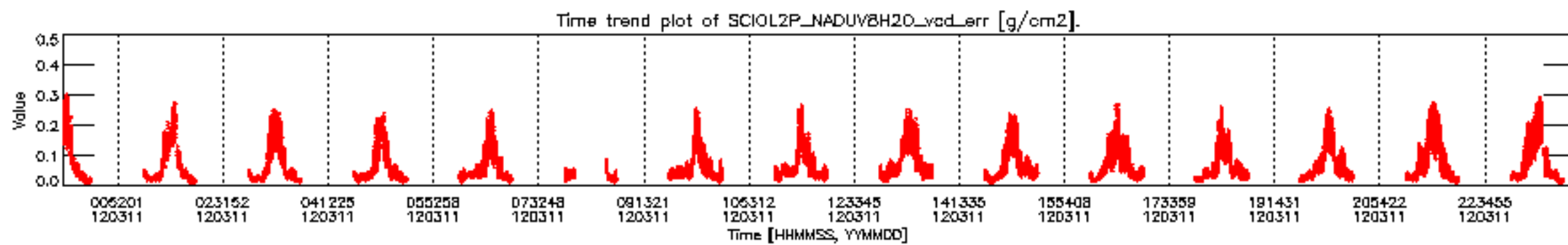
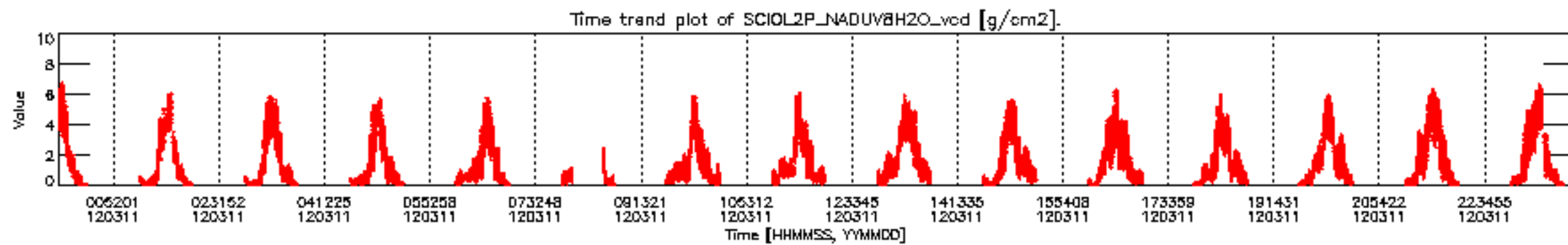


CIOL2P_NADUV6OCL_slant_col_den for 11MAR2012 00:00:00 to 12MAR2012 00:00:00 np; CIOL2P_NADUV6OCL_err_slant_col for 11MAR2012 00:00:00 to 12MAR2012 00:00:00 np

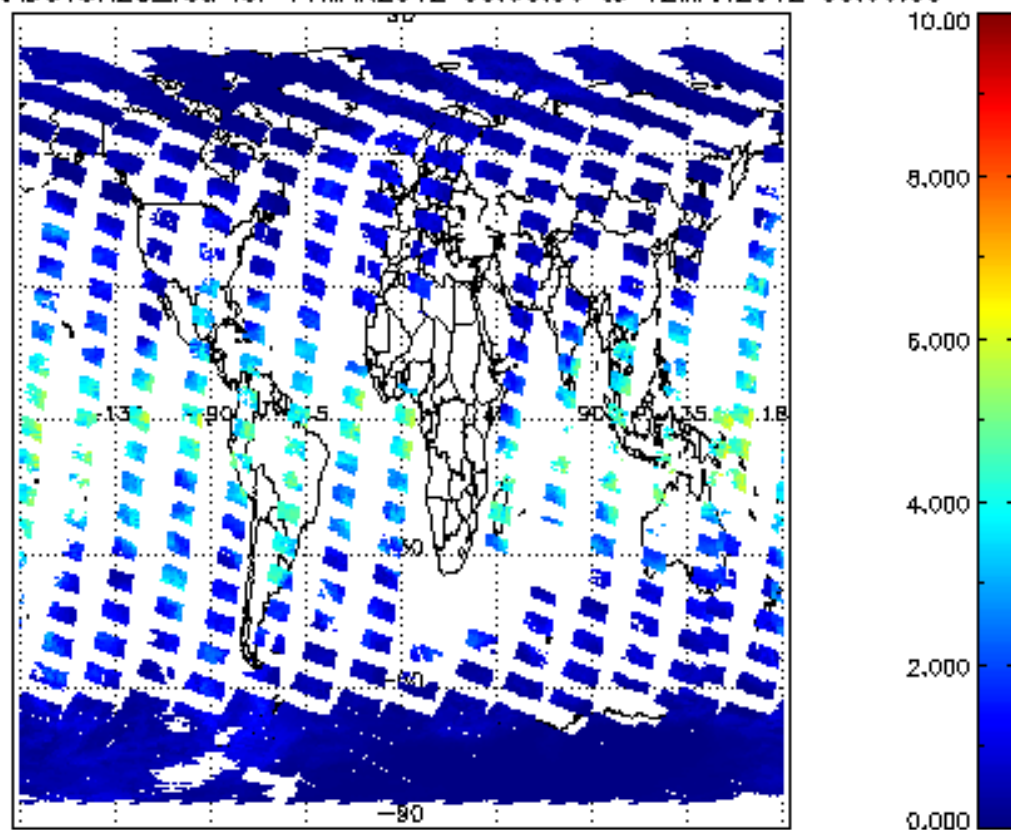


CIOL2P_NADUV6OCL_slant_coLden for 11MAR2012 00:00:00 to 12MAR2012 00:00:00 sp; CIOL2P_NADUV6OCL_err_slant_col for 11MAR2012 00:00:00 to 12MAR2012 00:00:00 sp

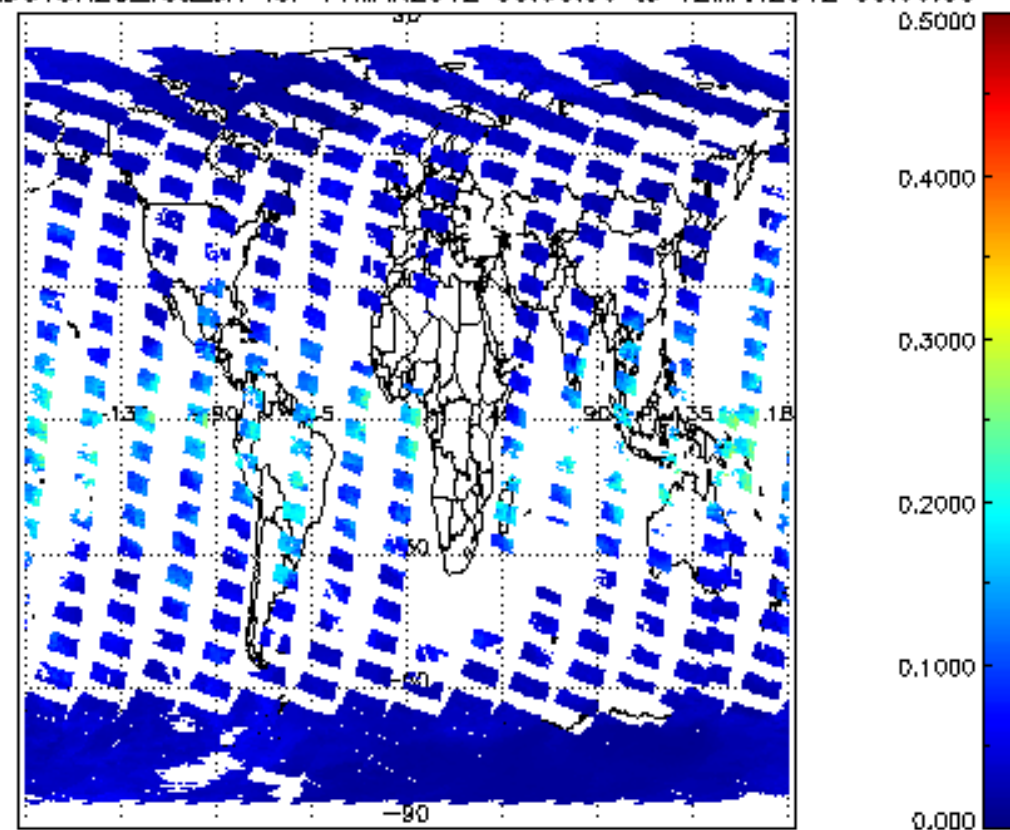




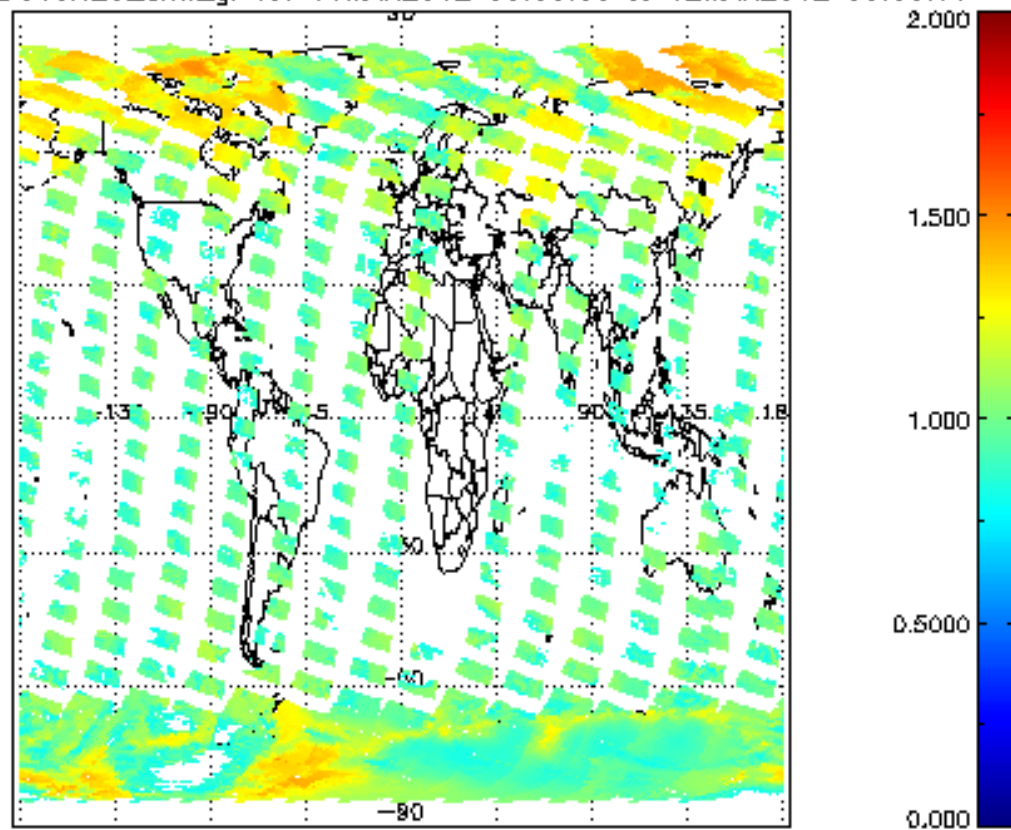
SCIOL2P_NADUV8H2O_vcd for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



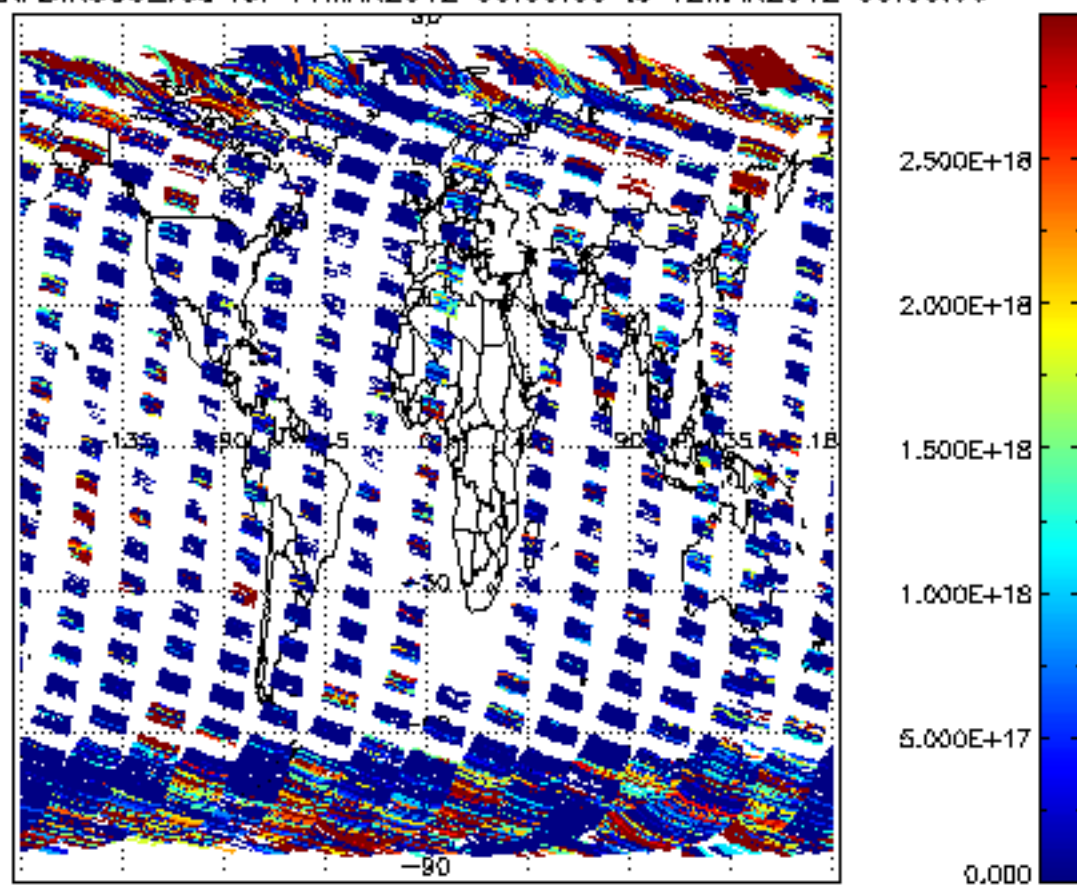
SCIOL2P_NADUV8H2O_vcd_Lerr for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



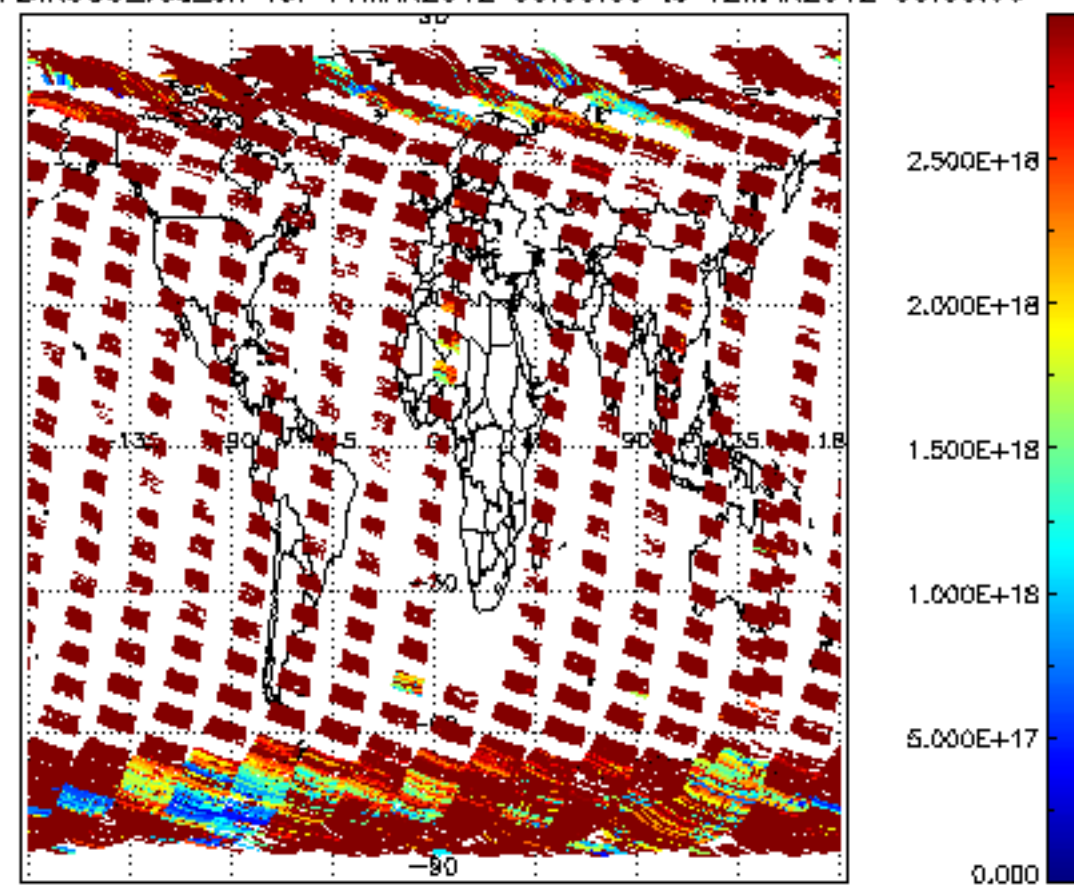
SCIOL2P_NADUV8H2O_arnf_gr for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



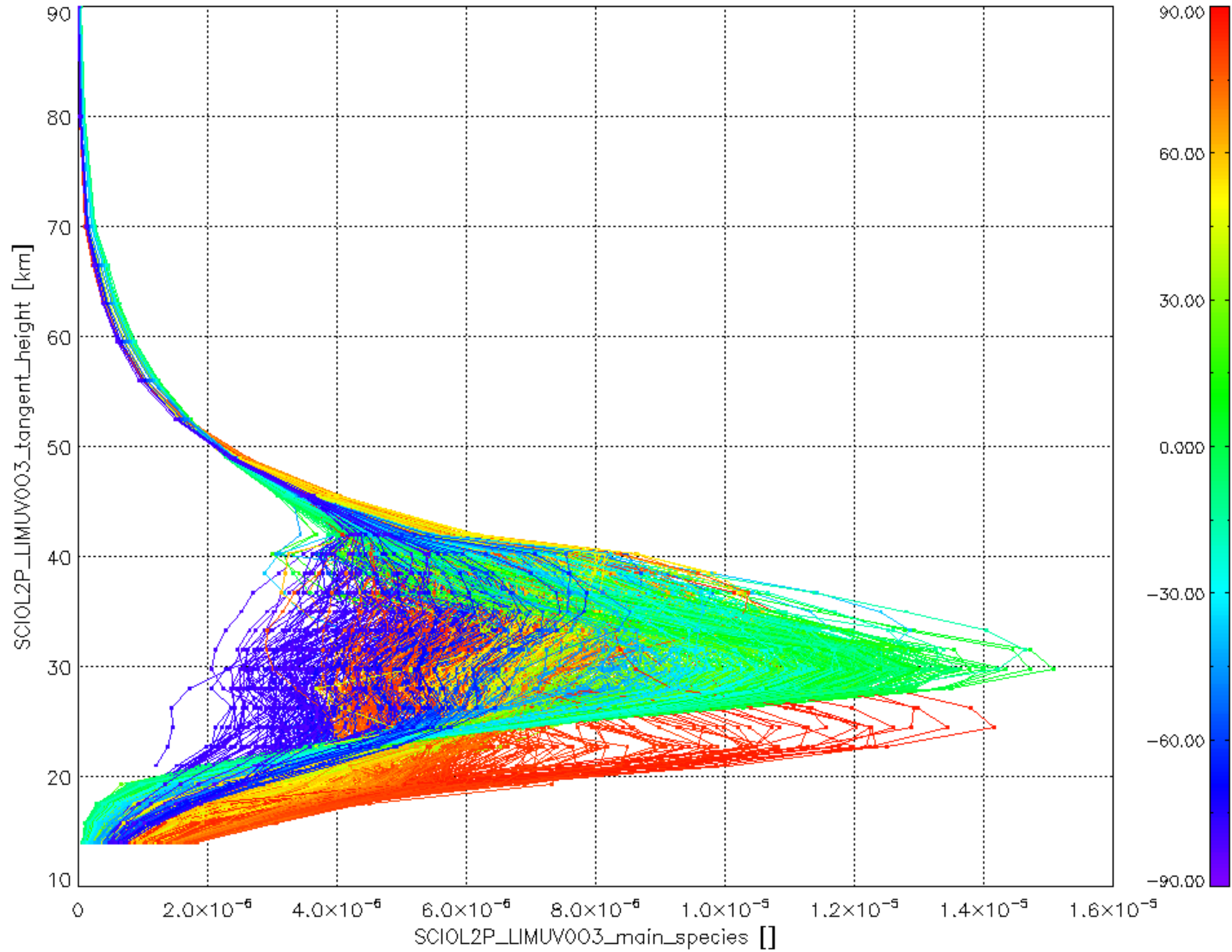
SCIOL2P_NADIR3CO_vcd for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



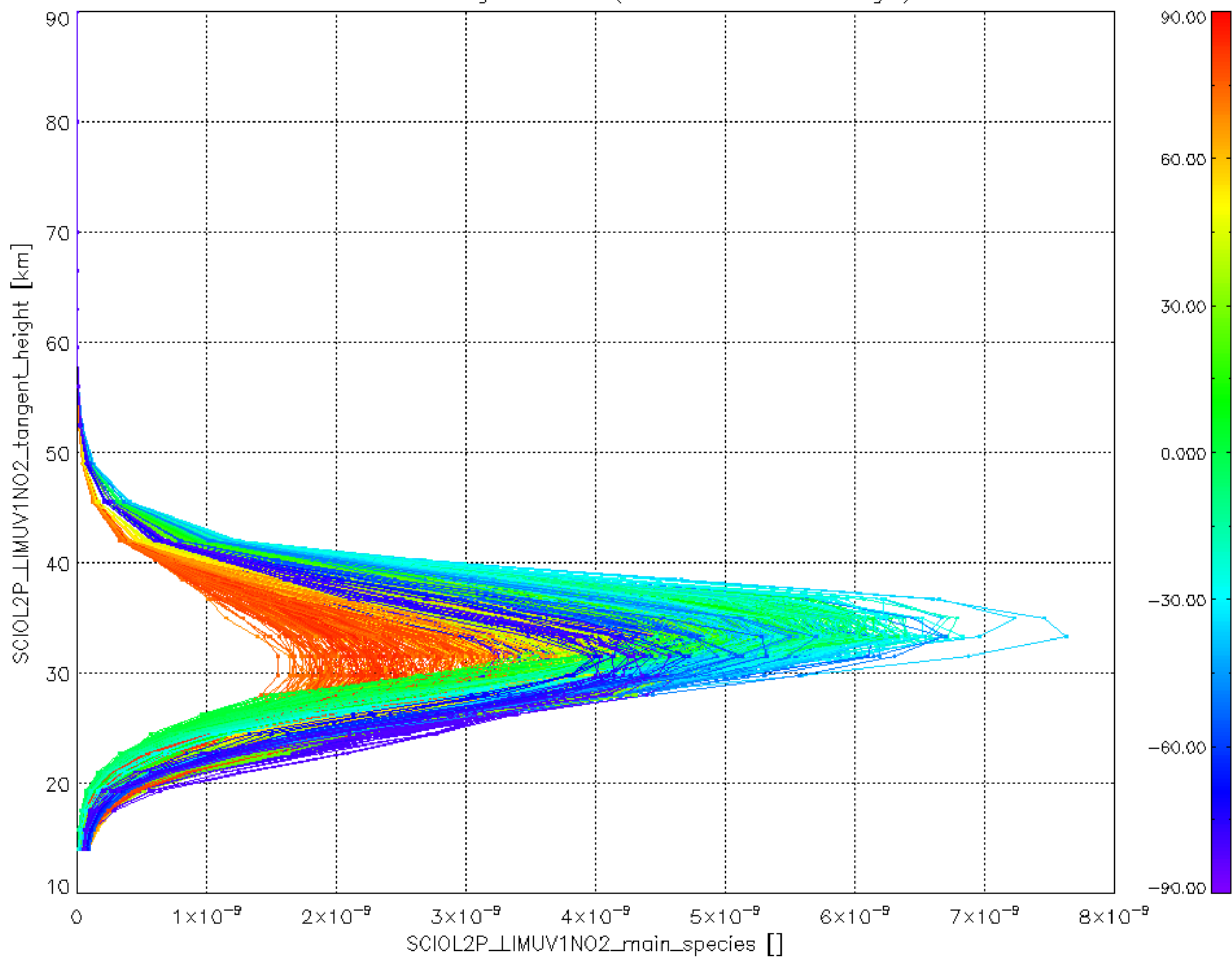
SCIOL2P_NADIR3CO_vcd_err for 11MAR2012 00:00:00 to 12MAR2012 00:00:00



Plot of SCIOL2P_LIMUV003_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



Plot of SCIOL2P_LIMUV1N02_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



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

