

2. SCIAMACHY Daily Report for Level 2 products

[2.1. General Info](#)

[2.2 Product Quality Indicators](#)

- [2.2.1 Cloud parameters](#)
- [2.2.2 Nadir](#)
 - [2.2.2.1 O3 \(UV0\)](#)
 - [2.2.2.2 NO2 \(UV1\)](#)
 - [2.2.2.3 BrO \(UV3\)](#)
 - [2.2.2.4 SO2 \(UV5\)](#)
 - [2.2.2.5 SO2 \(UV7\)](#)
 - [2.2.2.6 OCIO \(UV6\)](#)
 - [2.2.2.7 H2O \(UV8\)](#)
 - [2.2.2.8 CO \(IR3\)](#)
- [2.2.3 Limb](#)
 - [2.2.3.1 O3 \(UV0\)](#)
 - [2.2.3.2 NO2 \(UV1\)](#)
 - [2.2.3.3 BrO \(UV3\)](#)

[2.3 ADF monitoring](#)

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	25JAN2012 03:09:04
Data source version	SCIA-OL/5.02-W
Processing scope for products	12JAN2012 00:00:00 to 13JAN2012 00:00:00
Start time of first product within scope	11JAN2012 22:58:12
Stop time of last product within scope	13JAN2012 01:00:13
Total number of level 2 products	16
Number of level 2 products with errors	0

2.1.2 Summary per product

The following table shows a summary for each product used in this report.

Products are linked to a corresponding server directory for view/download. Note: Link access may be restricted by security settings of your internet browser or firewall.

Products are checked for a minimum duration of 3500.0000 seconds and a maximum duration of 6000.0000 seconds. Products failing the duration test are highlighted in bold, and their stop time is highlighted in red.

#	Product name	Start time	Stop time	Prod err	Fit summary
0	SCI_OL__2PWDPA20120111_225812_000035303110_00303_51610_3100.N1	11JAN2012 22:58:12	11JAN2012 23:57:02	0	GOOD
1	SCI_OL__2PWDPA20120112_003825_000035163110_00304_51611_3101.N1	12JAN2012 00:38:25	12JAN2012 01:37:01	0	GOOD
2	SCI_OL__2PWDPA20120112_021839_000035303110_00305_51612_3102.N1	12JAN2012 02:18:39	12JAN2012 03:17:29	0	GOOD
3	SCI_OL__2PWDPA20120112_035853_000035163110_00306_51613_3103.N1	12JAN2012 03:58:53	12JAN2012 04:57:29	0	GOOD
4	SCI_OL__2PWDPA20120112_053906_000035303110_00307_51614_3104.N1	12JAN2012 05:39:06	12JAN2012 06:37:57	0	GOOD

5	SCI_OL__2PWDP A20120112_071920_000035163110_00308_51615_3105.N1	12JAN2012 07:19:20	12JAN2012 08:17:56	0	GOOD
6	SCI_OL__2PWDP A20120112_085934_000035303110_00309_51616_3106.N1	12JAN2012 08:59:34	12JAN2012 09:58:24	0	GOOD
7	SCI_OL__2PWDP A20120112_103947_000035163110_00310_51617_3107.N1	12JAN2012 10:39:47	12JAN2012 11:38:23	0	GOOD
8	SCI_OL__2PWDP A20120112_122001_000035303110_00311_51618_3108.N1	12JAN2012 12:20:01	12JAN2012 13:18:51	0	GOOD
9	SCI_OL__2PWDP A20120112_140015_000035163110_00312_51619_3109.N1	12JAN2012 14:00:15	12JAN2012 14:58:51	0	GOOD
10	SCI_OL__2PWDP A20120112_154028_000035303110_00313_51620_3110.N1	12JAN2012 15:40:28	12JAN2012 16:39:19	0	GOOD
11	SCI_OL__2PWDP A20120112_172145_000034843110_00314_51621_3111.N1	12JAN2012 17:21:45	12JAN2012 18:19:49	0	GOOD
12	SCI_OL__2PWDP A20120112_190115_000035303110_00315_51622_3112.N1	12JAN2012 19:01:15	12JAN2012 20:00:05	0	GOOD
13	SCI_OL__2PWDP A20120112_204109_000035163110_00316_51623_3113.N1	12JAN2012 20:41:09	12JAN2012 21:39:46	0	GOOD
14	SCI_OL__2PWDP A20120112_222123_000035303110_00317_51624_3114.N1	12JAN2012 22:21:23	12JAN2012 23:20:14	0	GOOD
15	SCI_OL__2PWDP A20120113_000137_000035163110_00318_51625_3118.N1	13JAN2012 00:01:37	13JAN2012 01:00:13	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: 158860

Total number of cloud data DSRs with good quality flag (=0): 158860 (100.0 %)

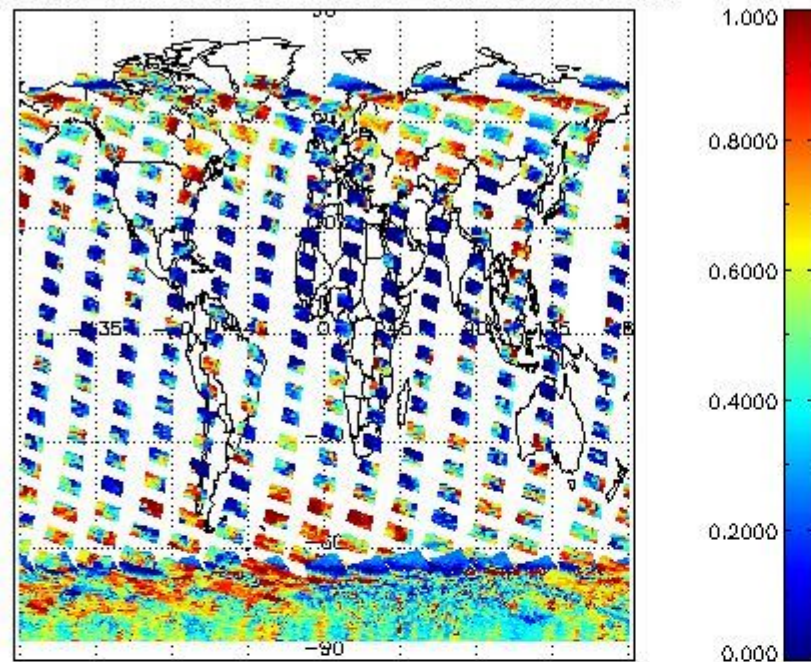
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	158860	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	158860	0.16653	0.12500	0.12500	0.25000	0.058877	s
CL_FRAC	158860	0.42803	0.41218	0.0000	1.0000	0.29627	
CL_FRAC_ERR	158860	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	158860	5.3290	4.0000	4.0000	8.0000	1.8841	
PMD_READ_CL[0]	158860	0.47389	0.0000	0.0000	8.0000	1.3757	-
PMD_READ_CL[1]	158860	1.0400	0.0000	0.0000	8.0000	2.3033	-
CL_TOP_HEIGHT	129560	4.0533	3.2860	0.0000	17.000	3.6003	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	129560	54.407	45.112	0.0000	101.00	40.890	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	158860	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	158860	11001011	11000100	11000000	11100000	3409.2	
AERO_ABSO_IND	158860	0.078401	0.0000	0.0000	5.7459	0.27698	
AERO_IND_DIAG	158860	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	158860	01010110	00000000	00000000	11000000	24453.	

Time and geolocation plots:

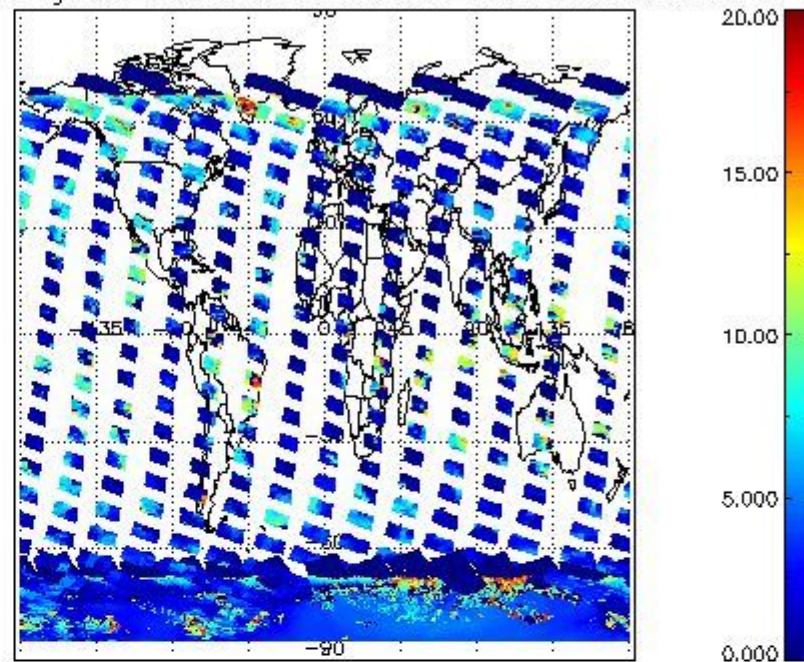
Plots are available for the following parameters:

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

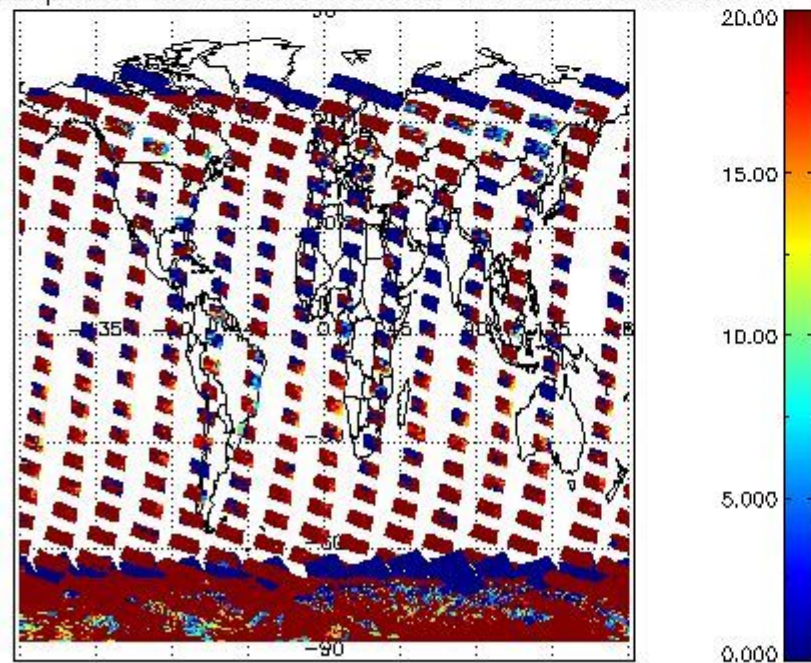
cL_frac for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



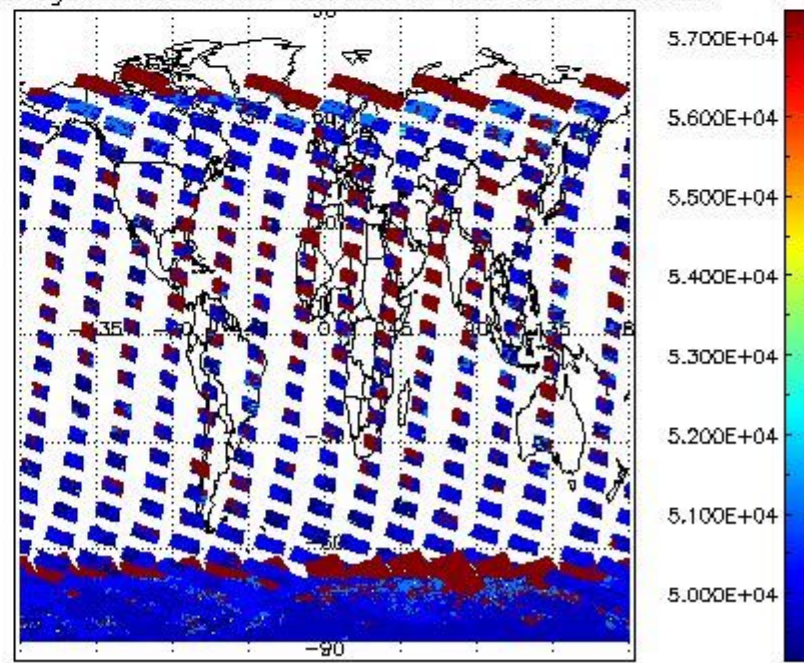
cL_top_height for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



cLopt_depth for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



cloud_flags for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



2.2.2 Nadir

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

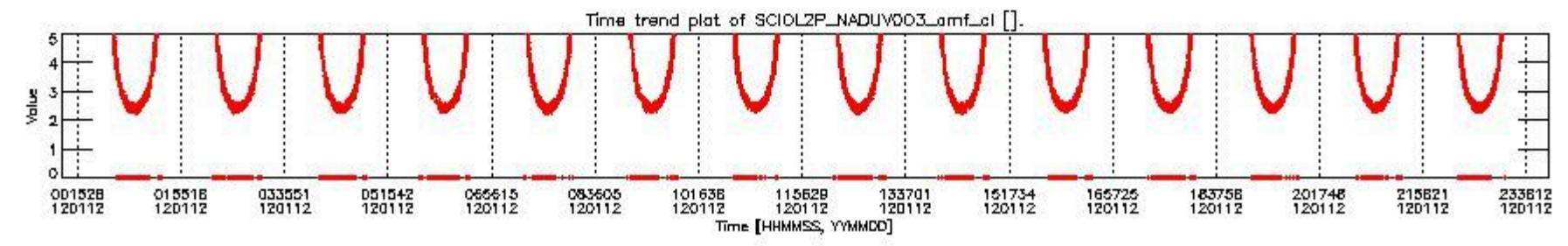
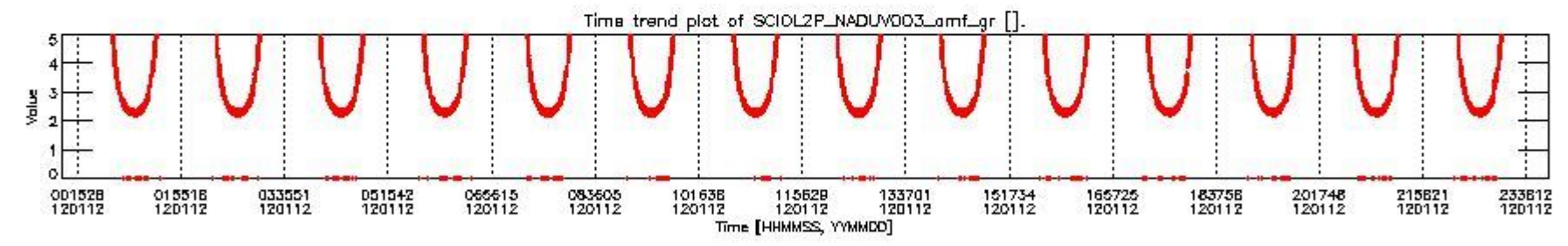
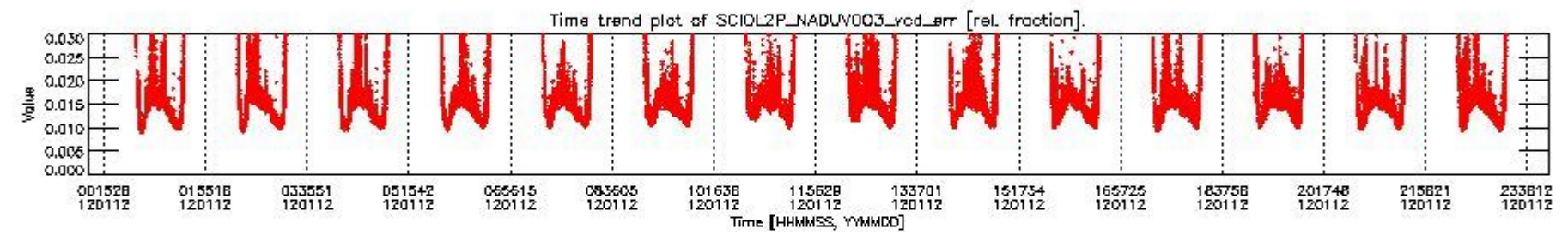
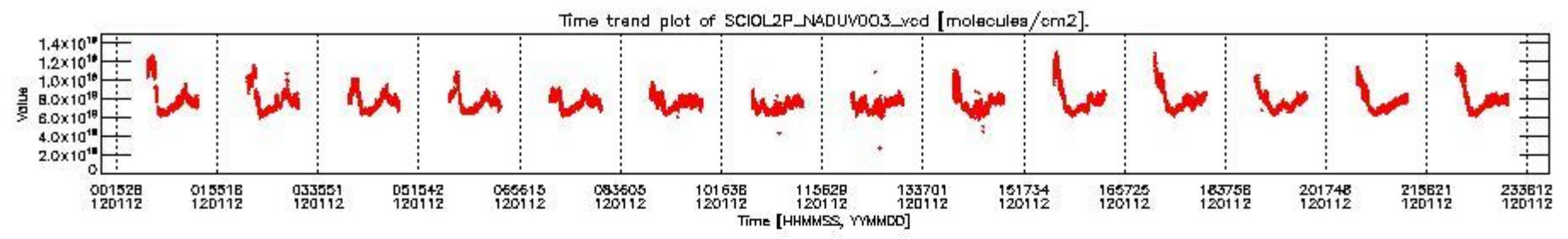
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

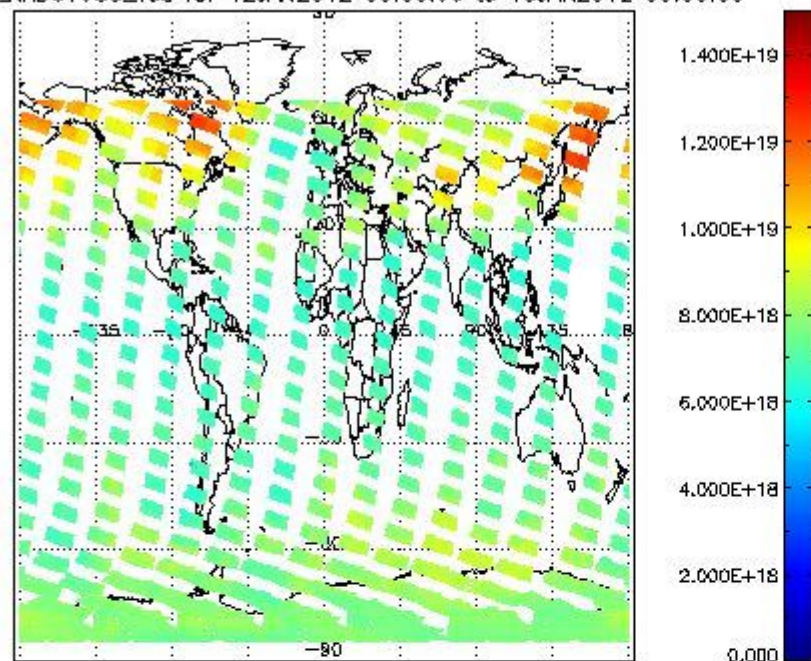
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

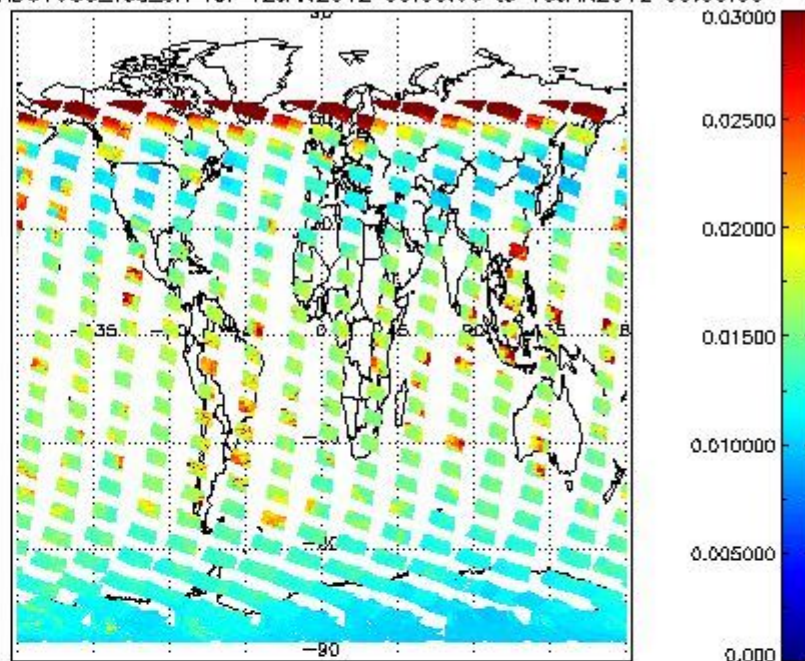
2.2.2.1 O3 (UV0)



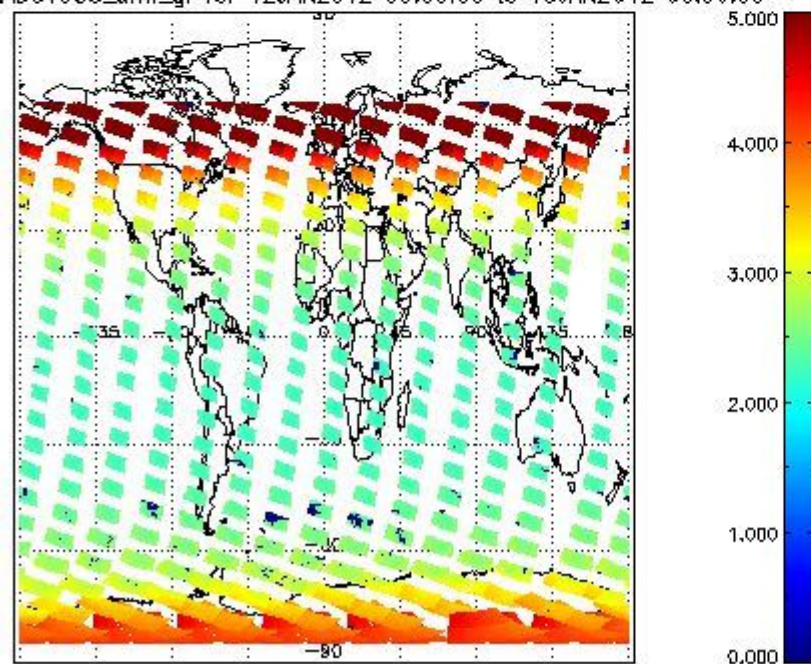
SCIOL2P_NADUV003_vcd for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



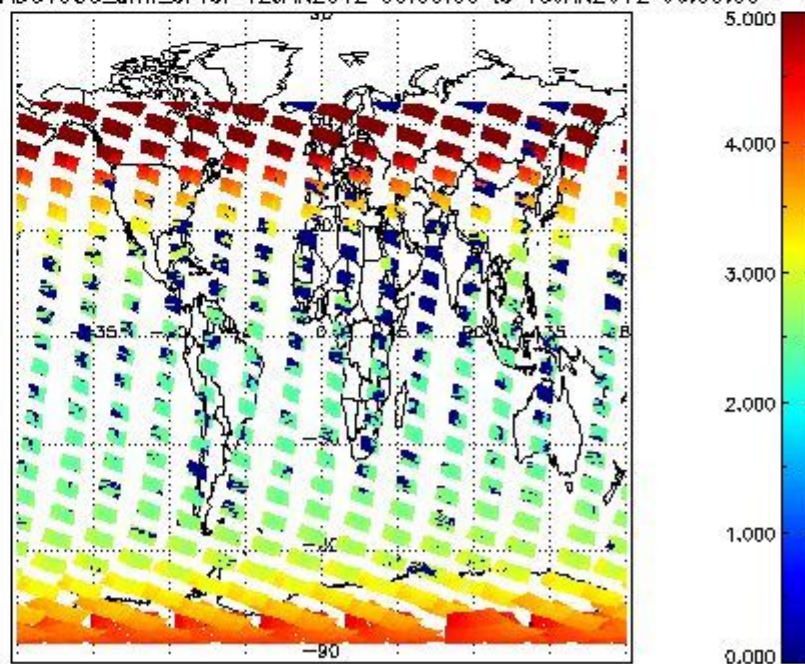
SCIOL2P_NADUV003_vcd_err for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



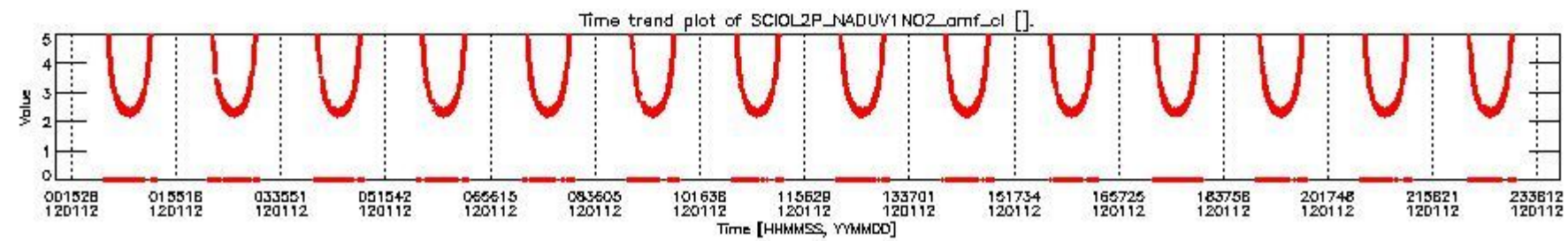
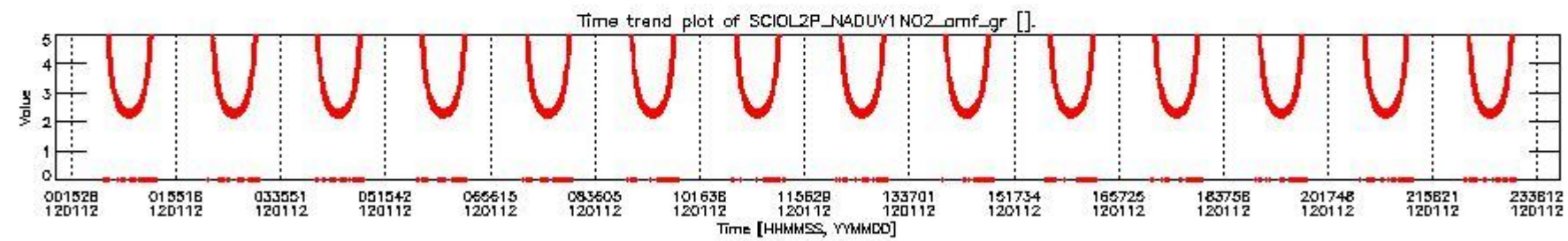
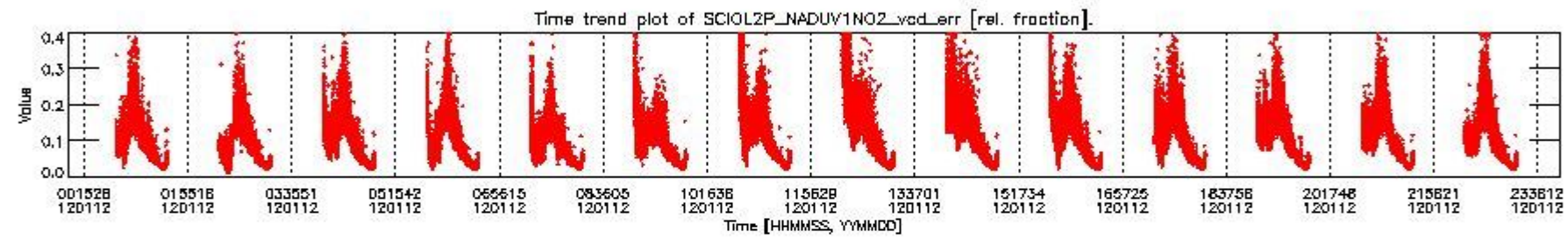
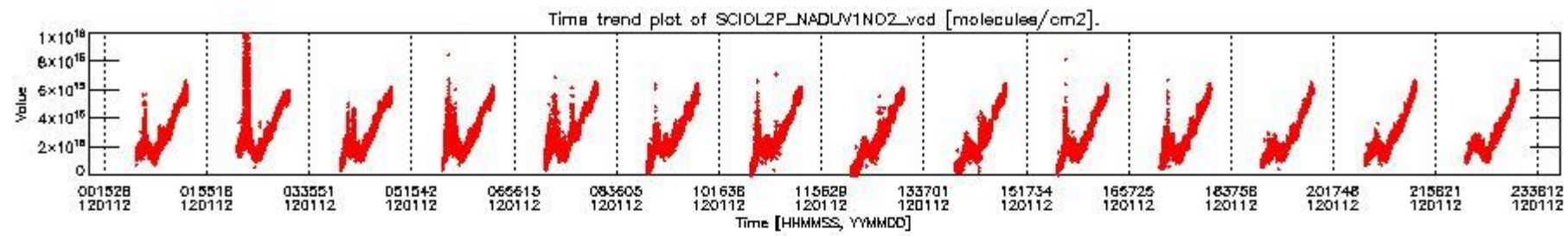
SCIOL2P_NADUV003_amf_gr for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

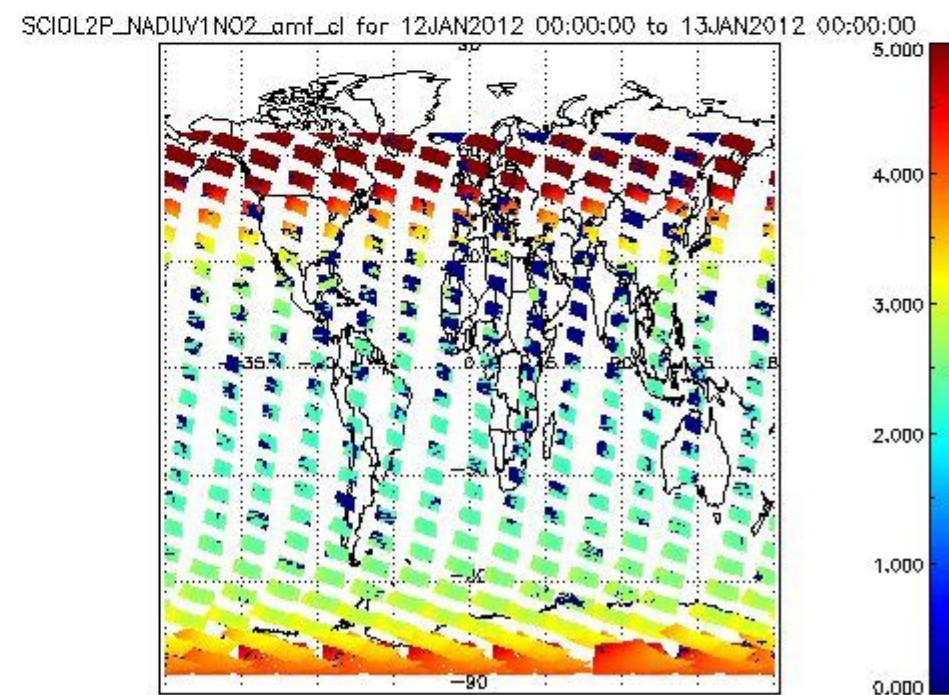
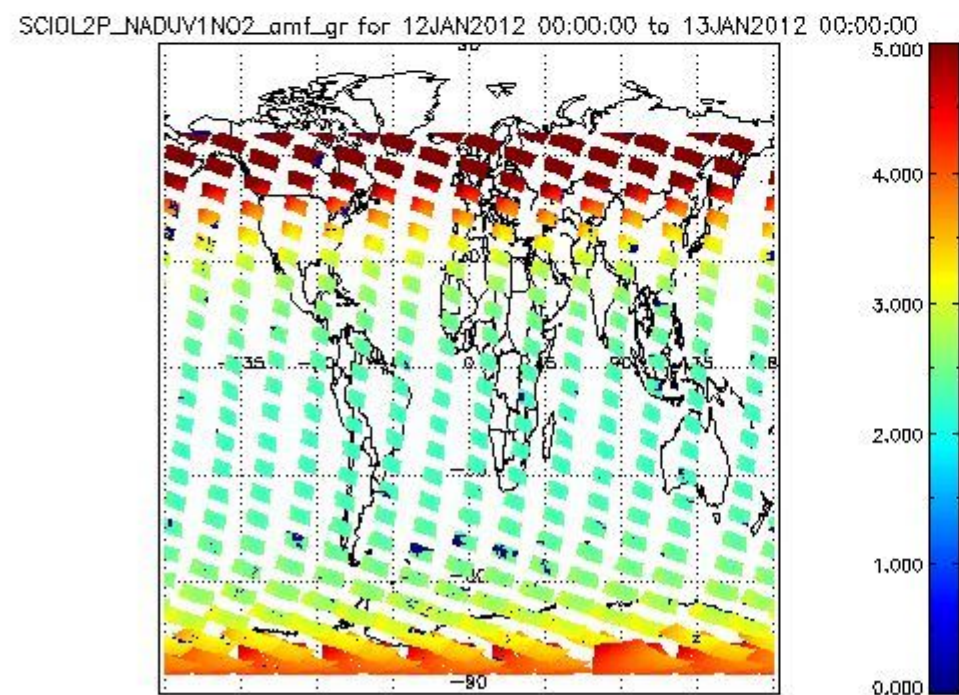
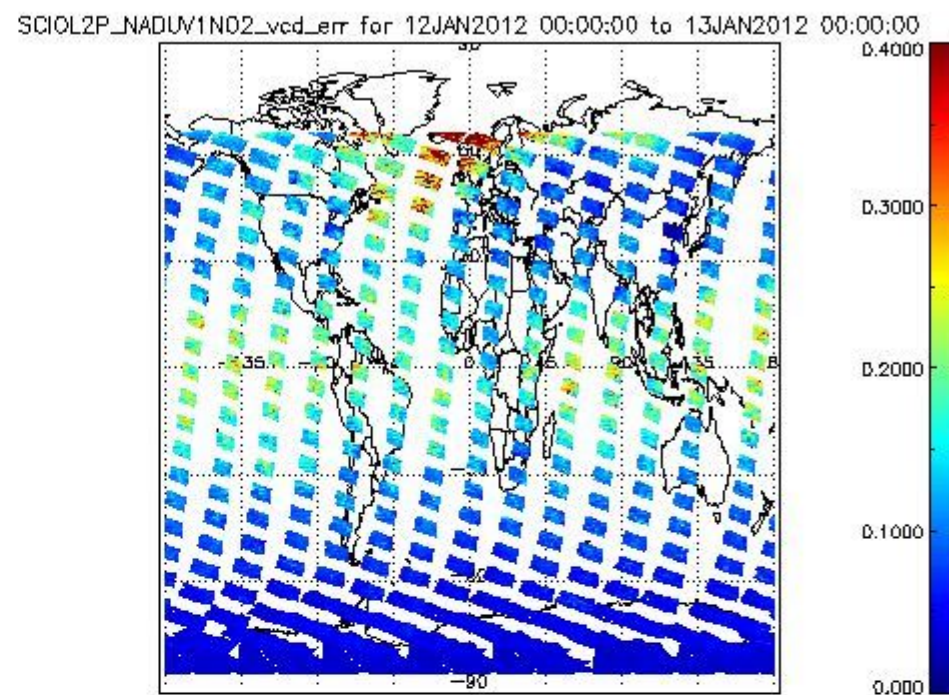
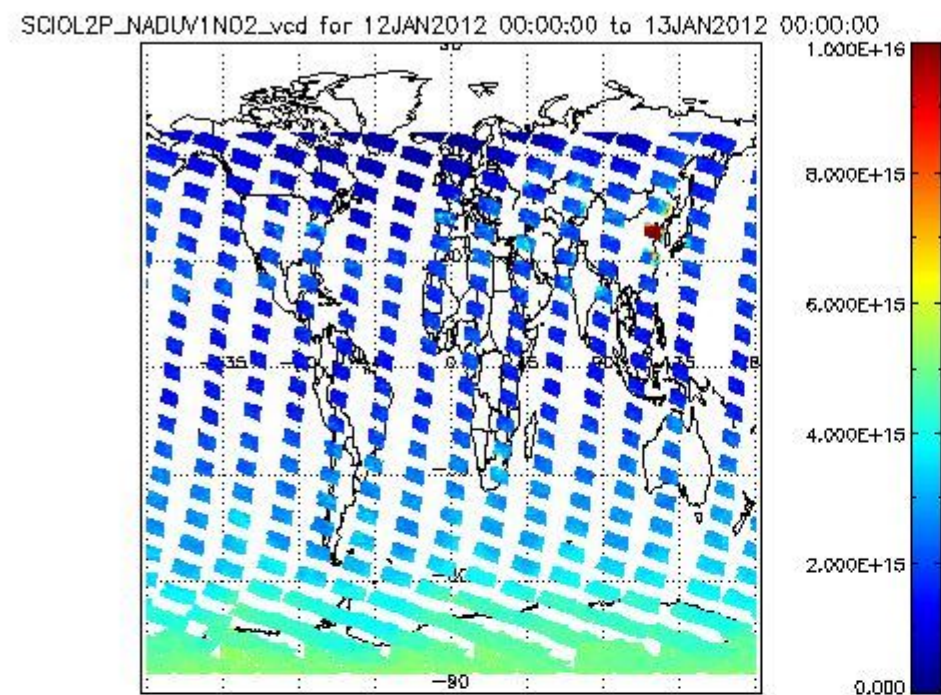


SCIOL2P_NADUV003_amf_cl for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

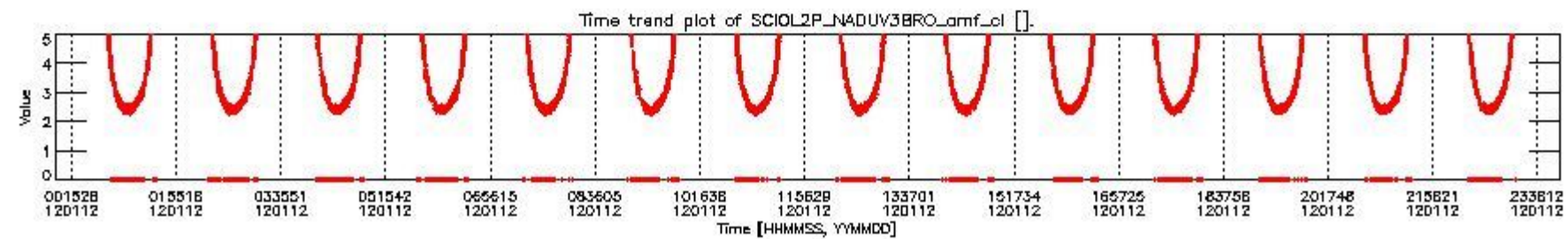
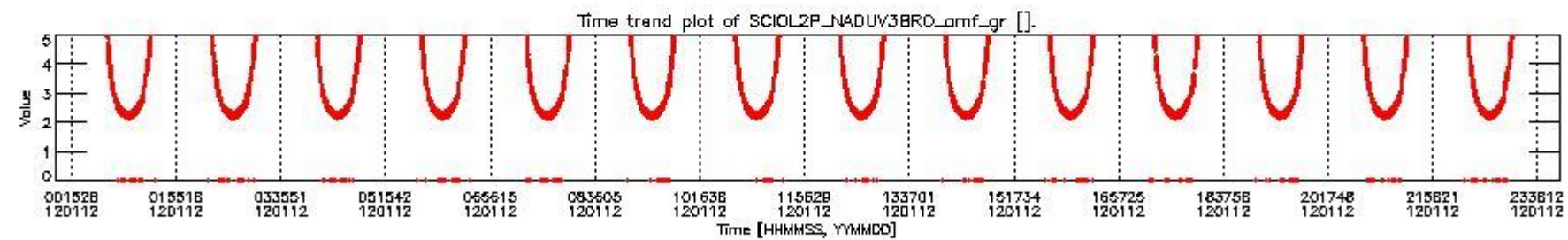
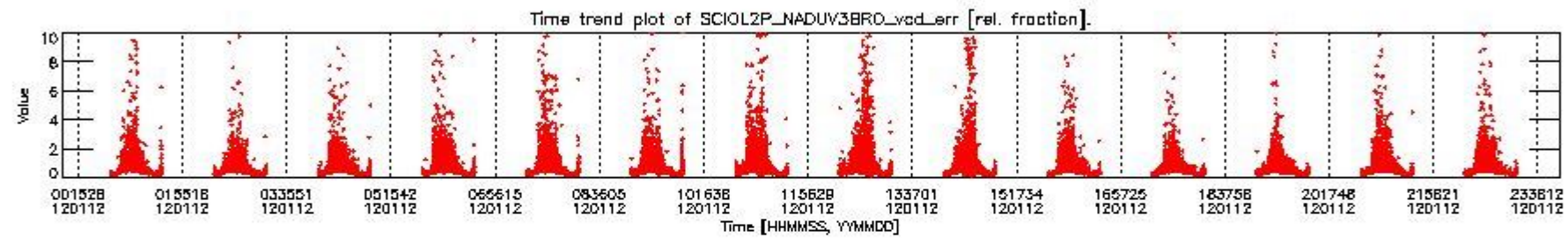
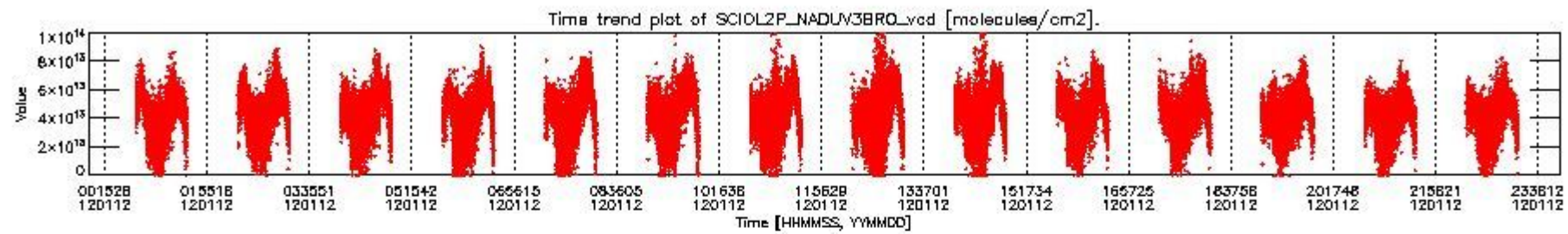


2.2.2.2 NO2 (UV1)

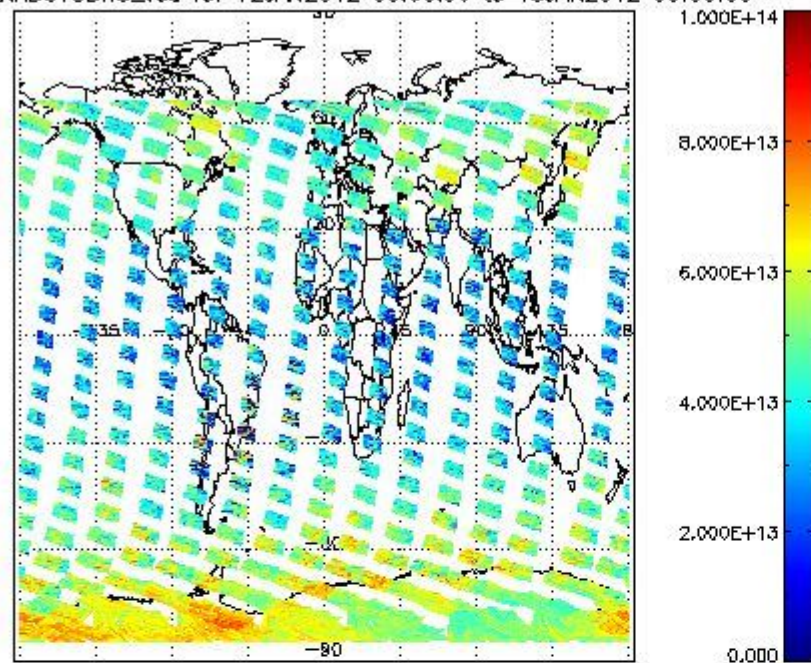




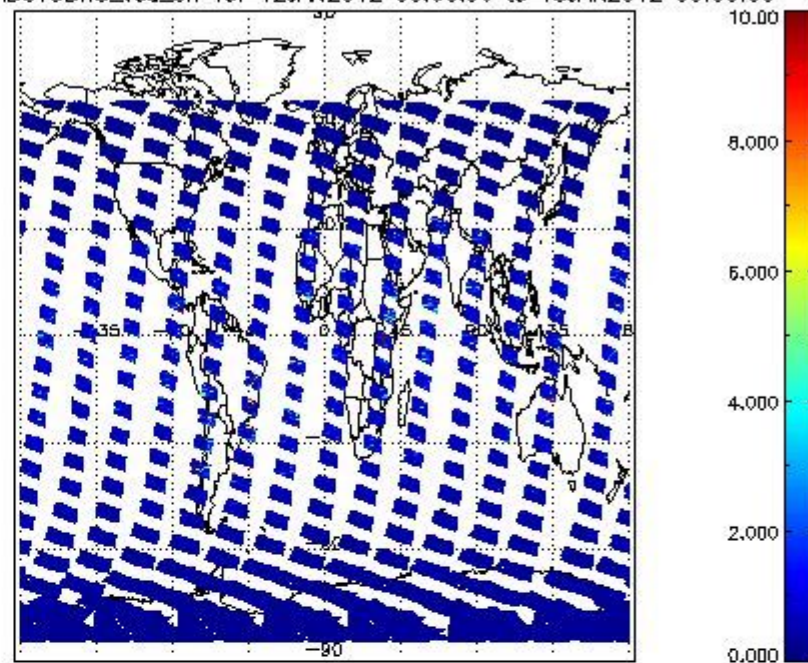
2.2.2.3 BrO (UV3)



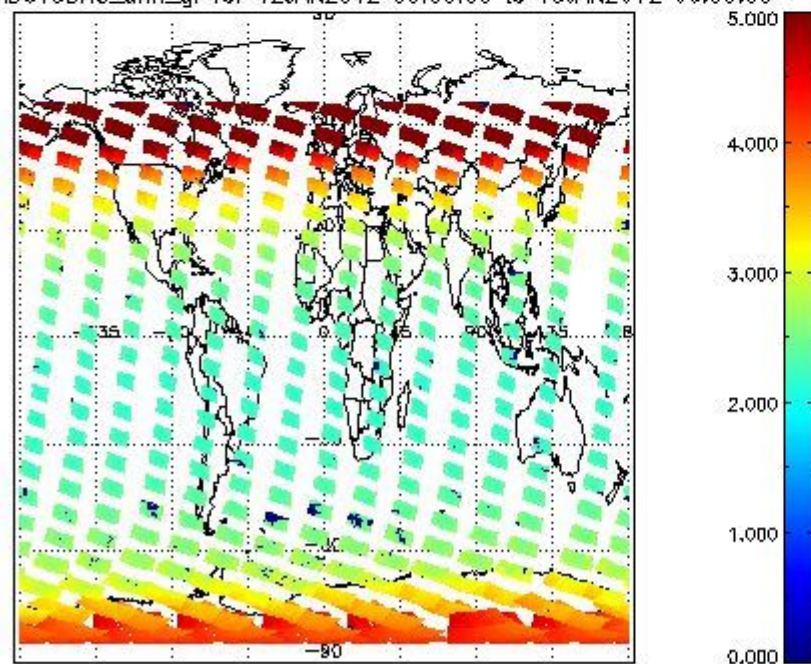
SCIOL2P_NADUV3BRO_vcd for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



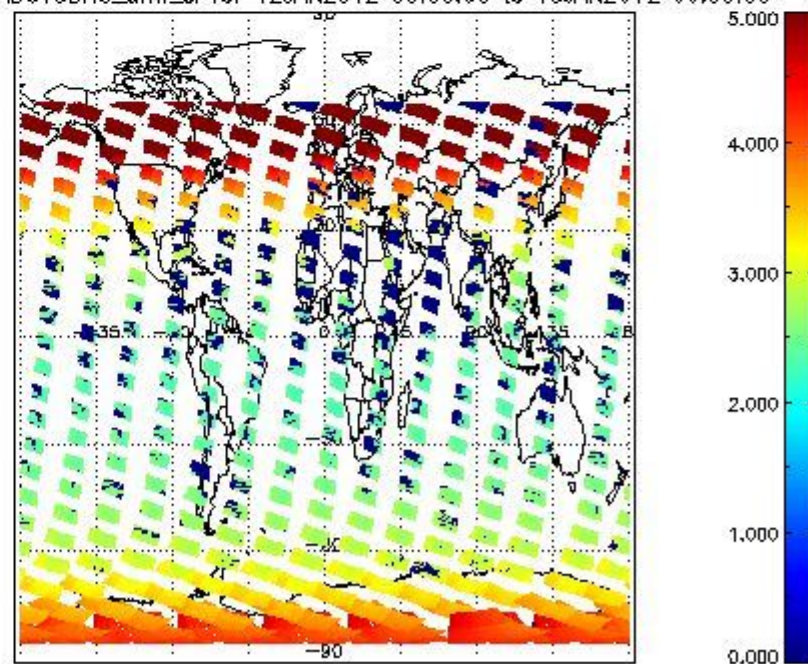
SCIOL2P_NADUV3BRO_vcd_err for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



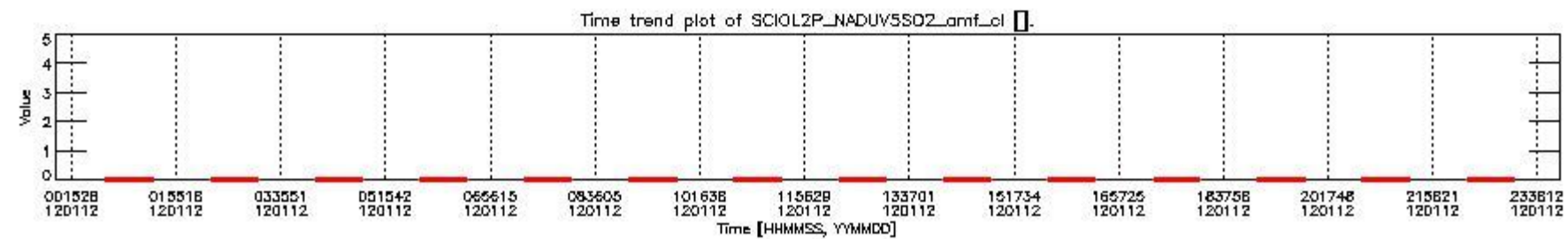
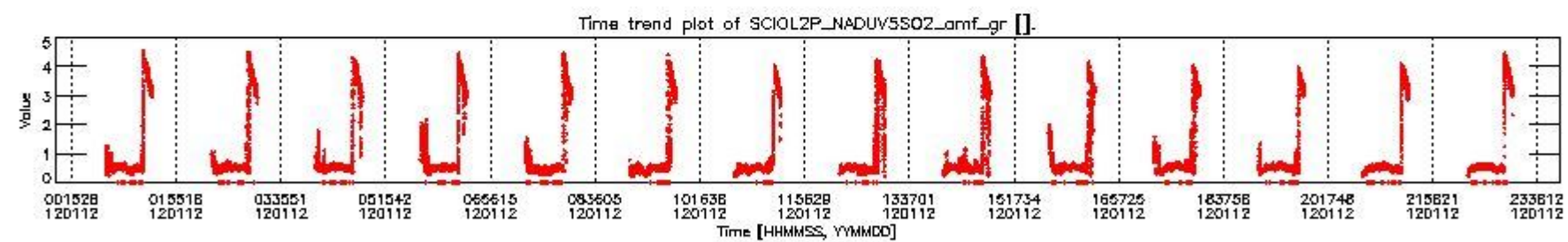
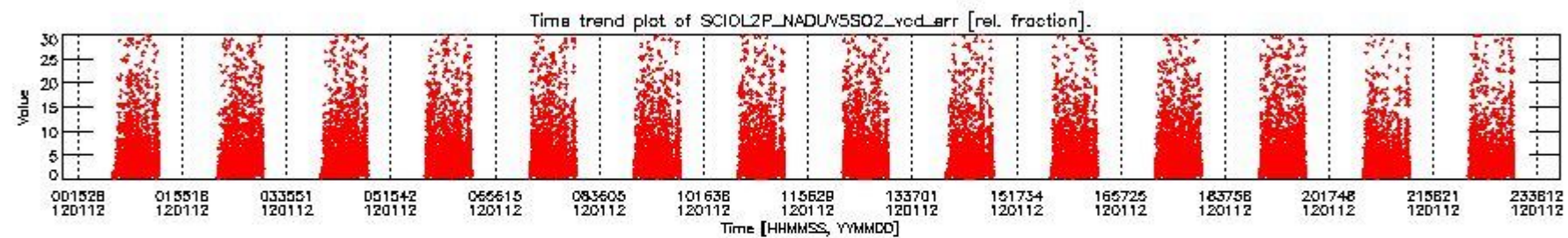
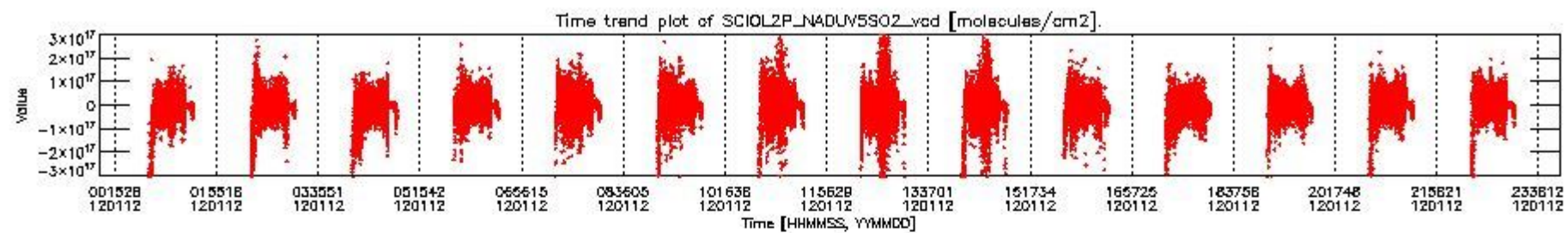
SCIOL2P_NADUV3BRO_amf_gr for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



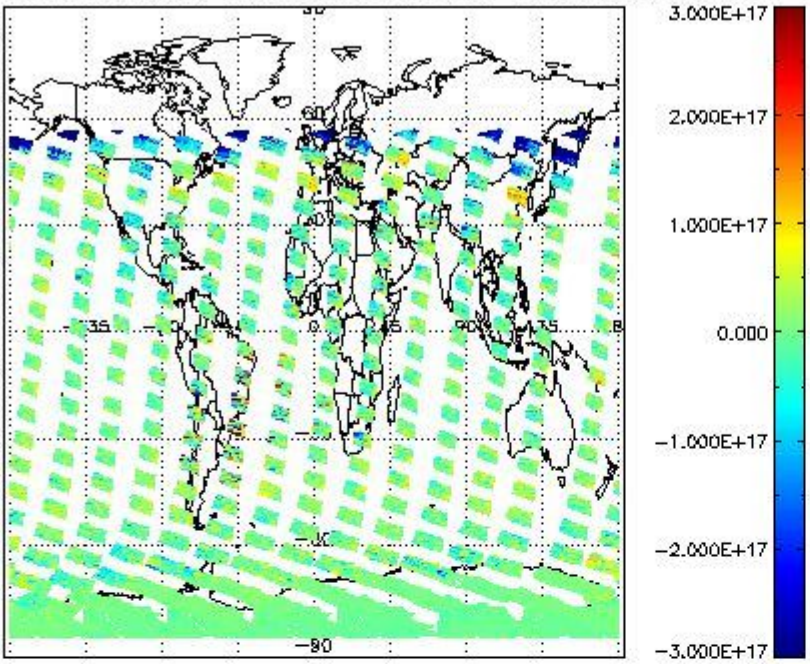
SCIOL2P_NADUV3BRO_amf_cl for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



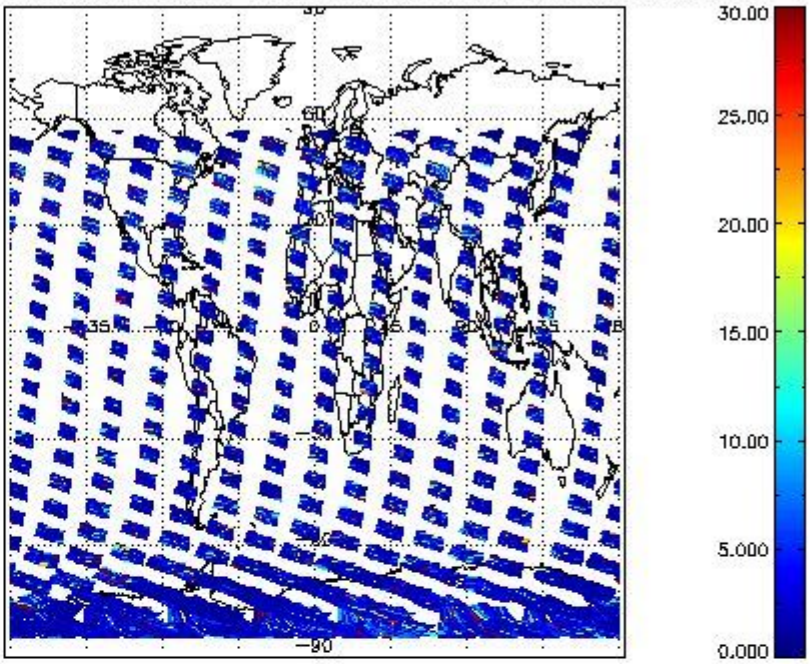
2.2.2.4 SO2 (UV5)



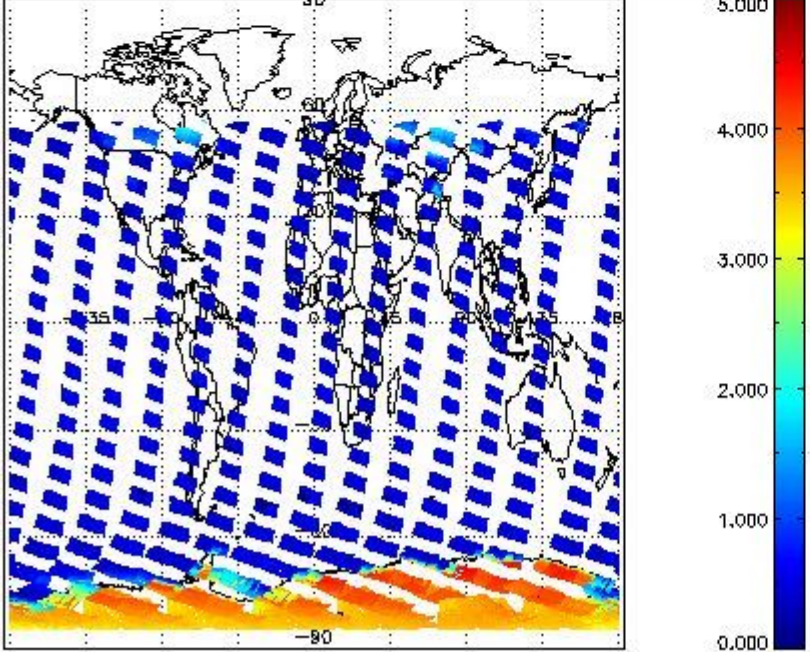
SCIOL2P_NADUV5SO2_vcd for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



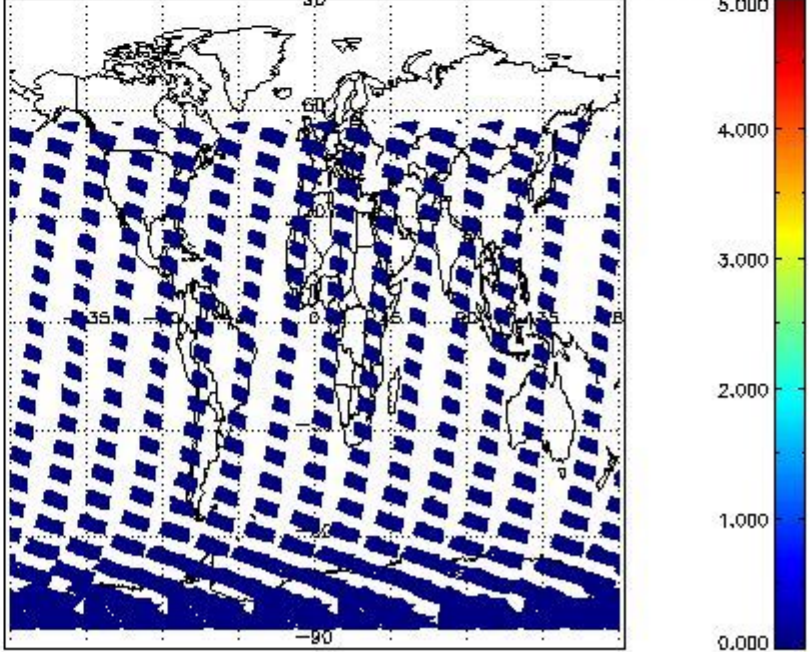
SCIOL2P_NADUV5SO2_vcd_err for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



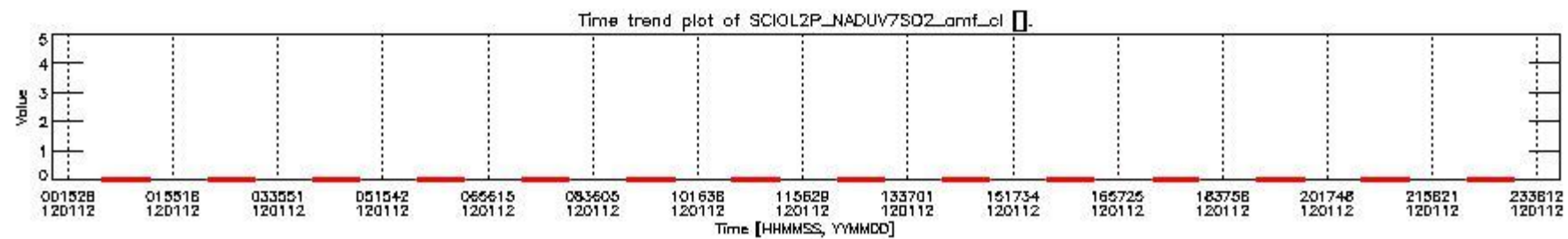
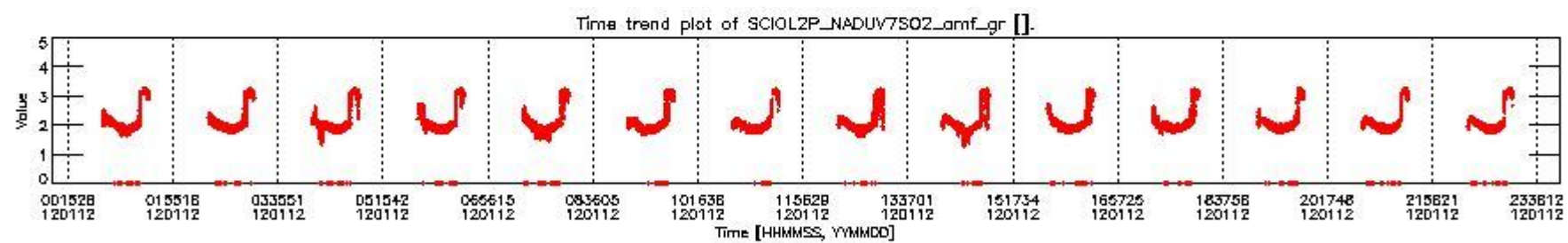
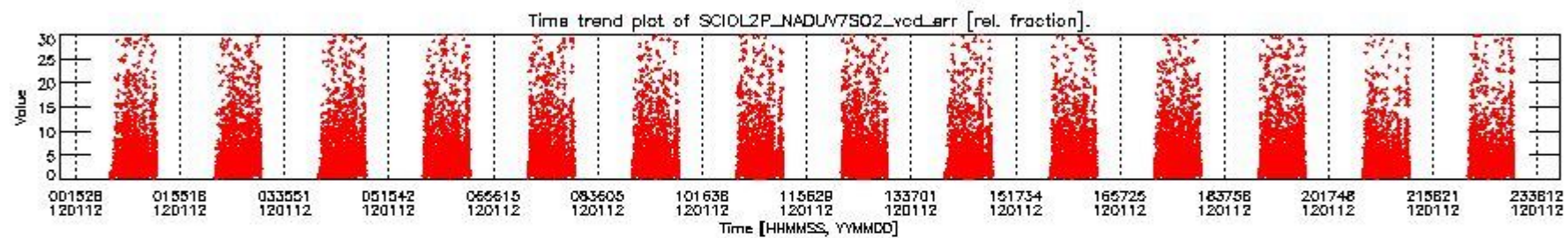
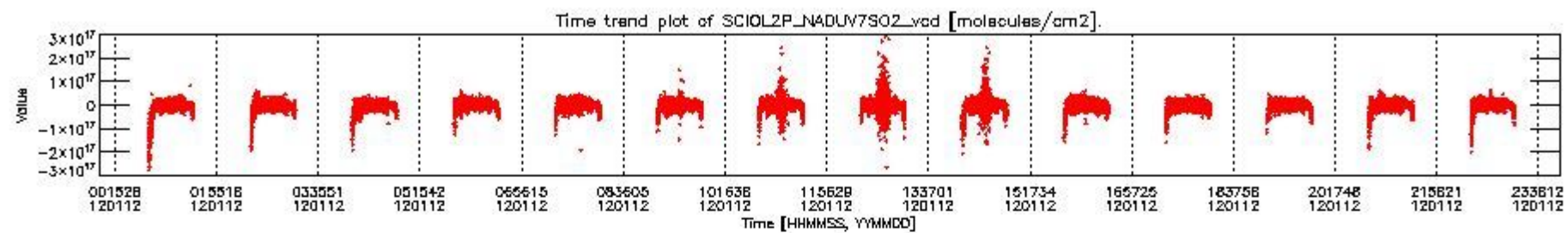
SCIOL2P_NADUV5SO2_amf_gr for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



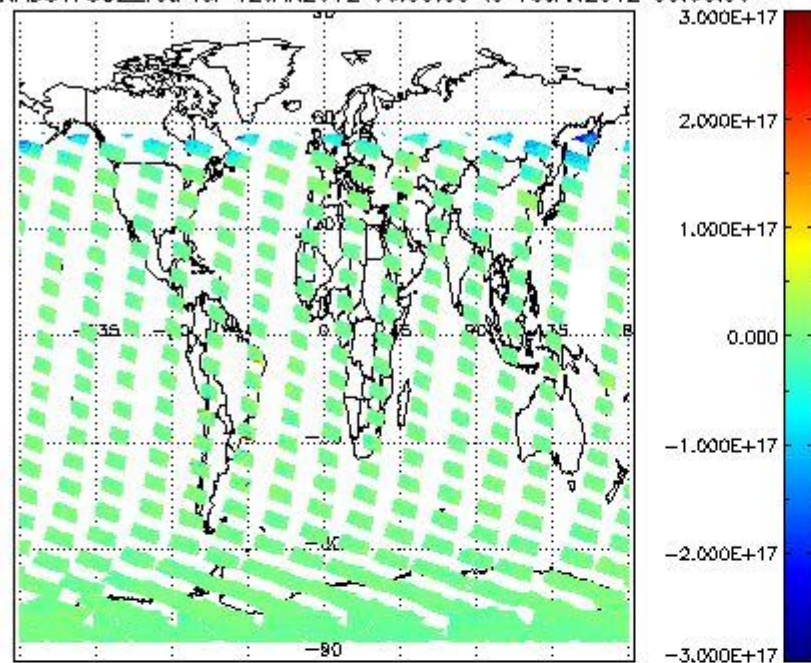
SCIOL2P_NADUV5SO2_amf_cl for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



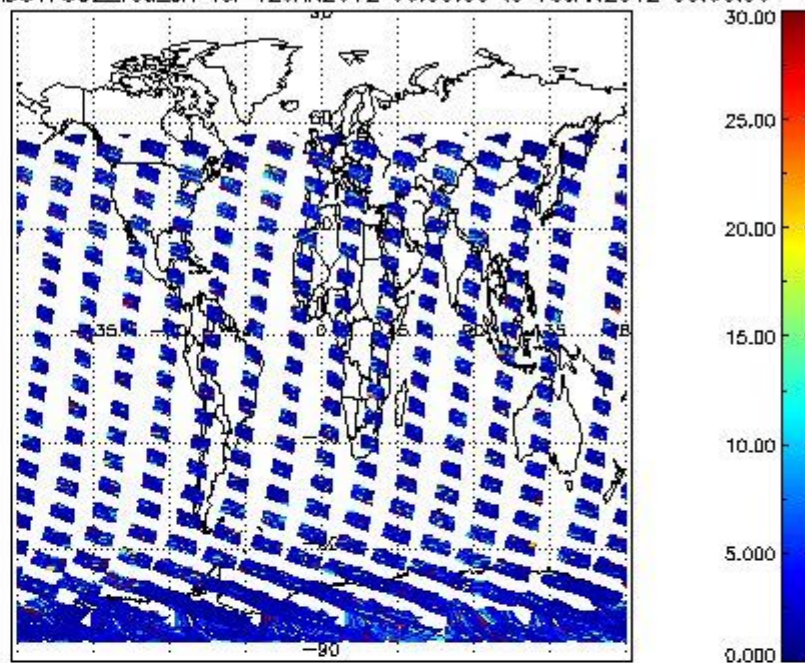
2.2.2.5 SO2 (UV7)



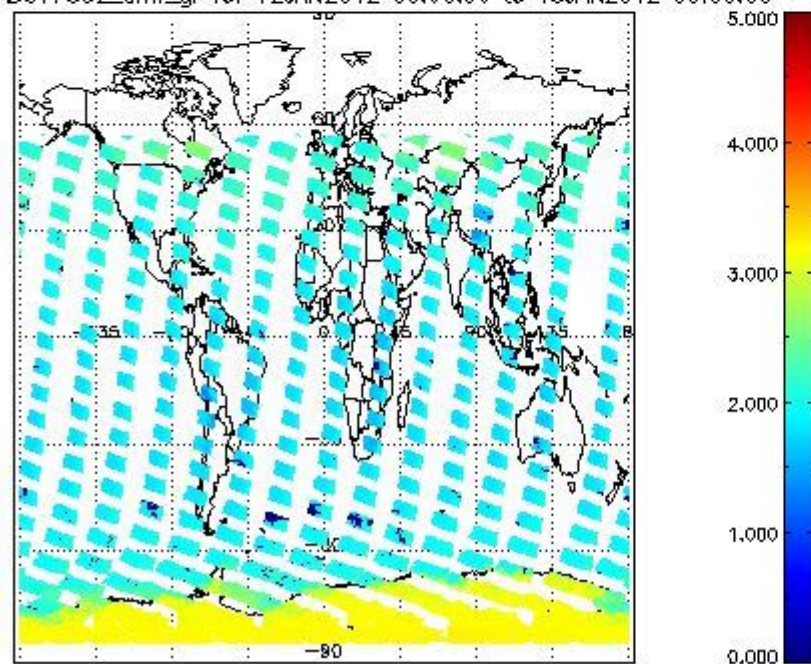
SCIOL2P_NADUV7S02_vcd for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



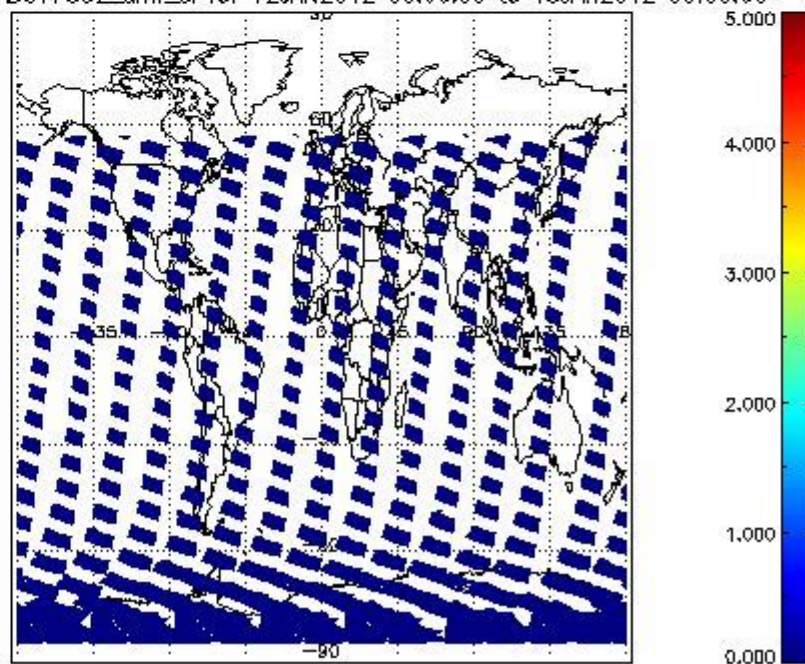
SCIOL2P_NADUV7S02_vcd_err for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



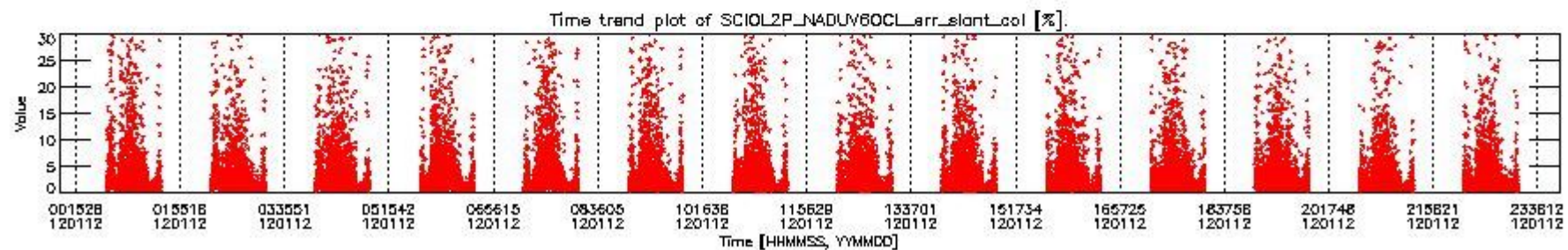
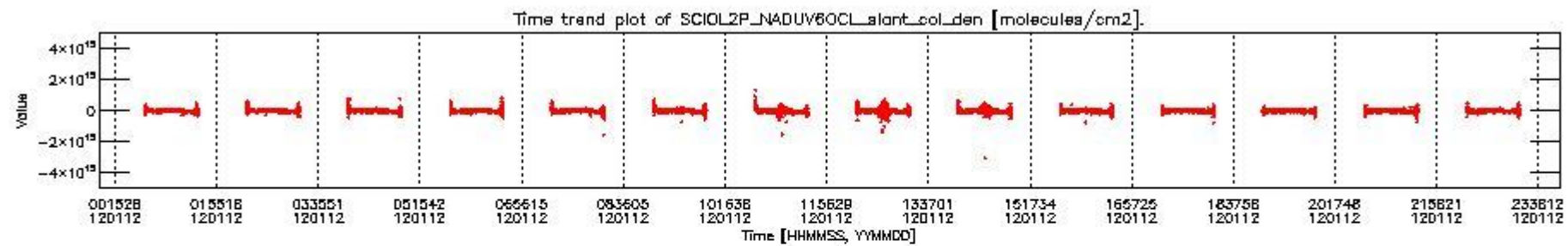
SCIOL2P_NADUV7S02_amf_gr for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



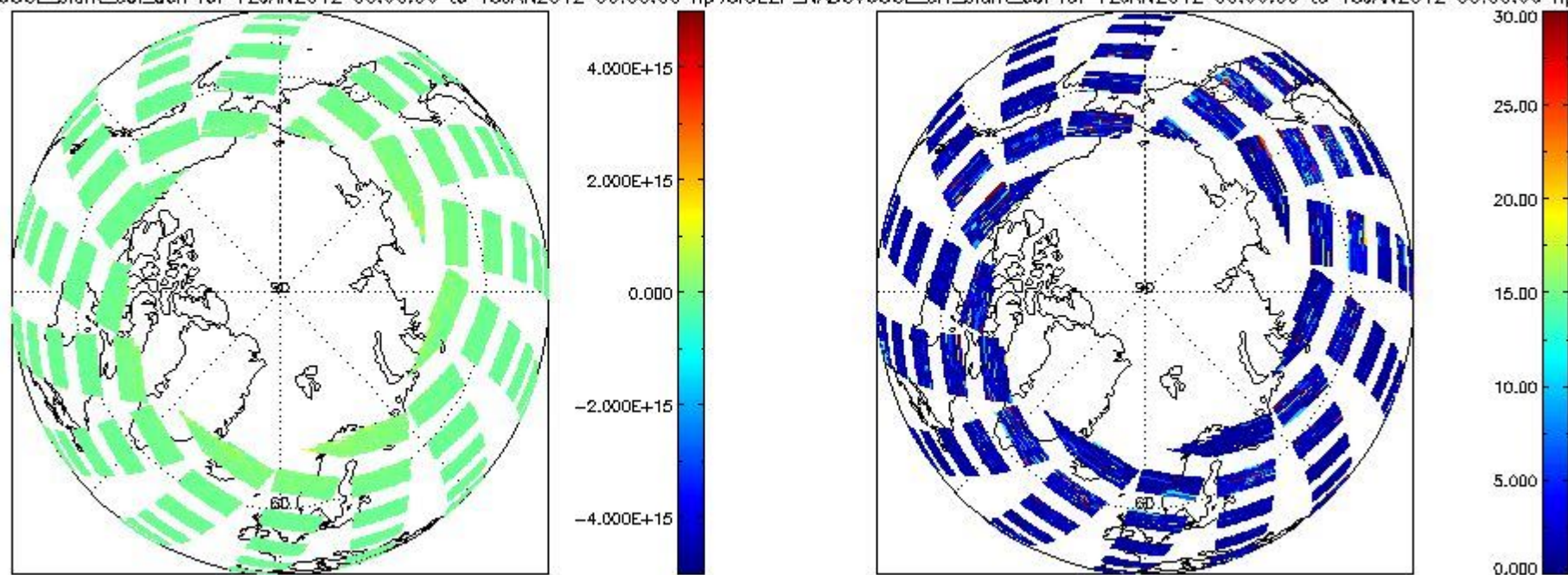
SCIOL2P_NADUV7S02_amf_cl for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



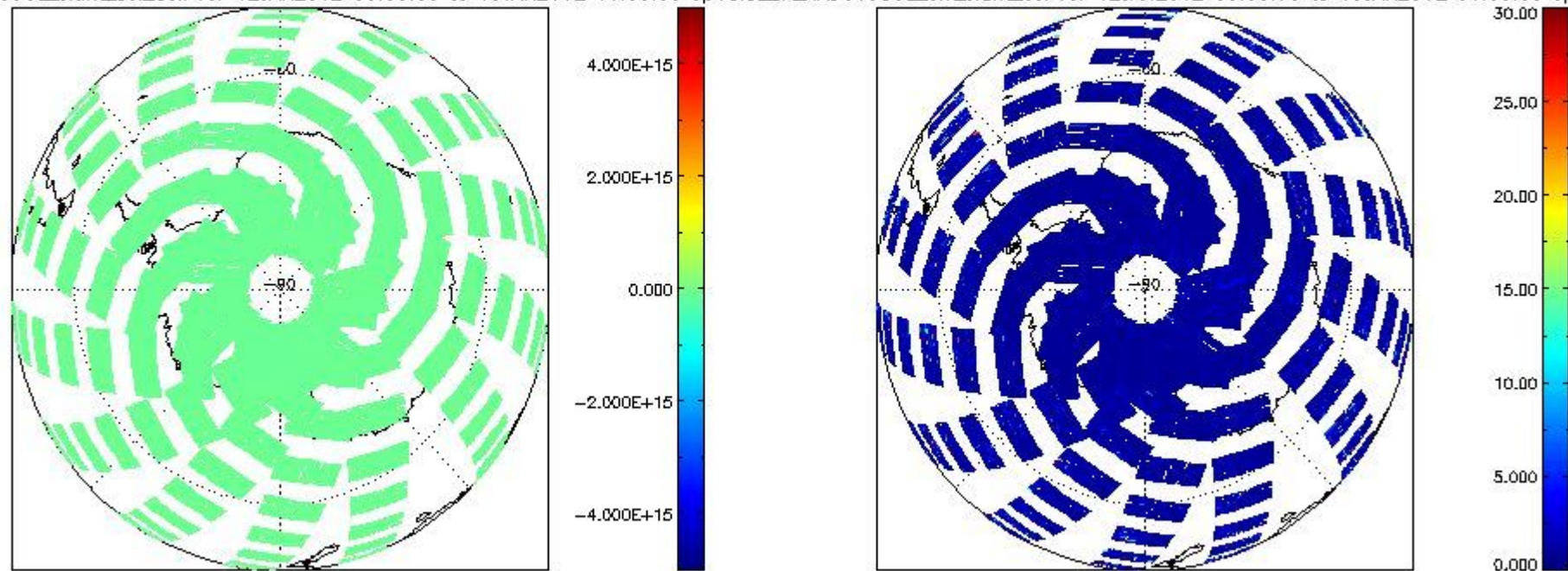
2.2.2.6 OCIO (UV6)



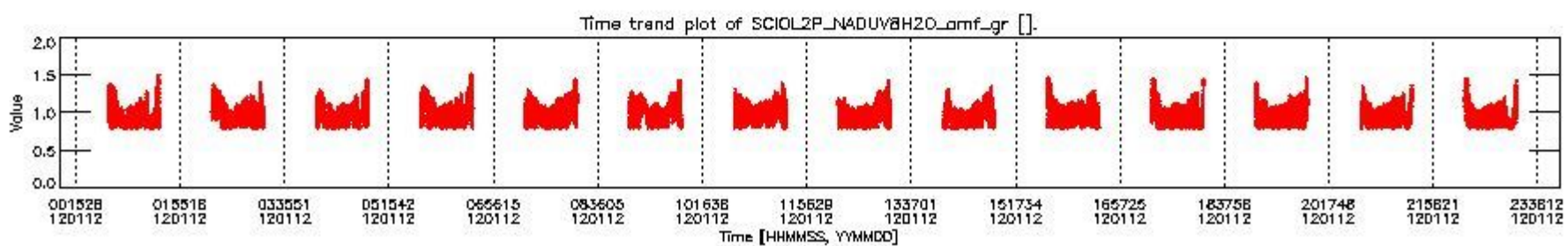
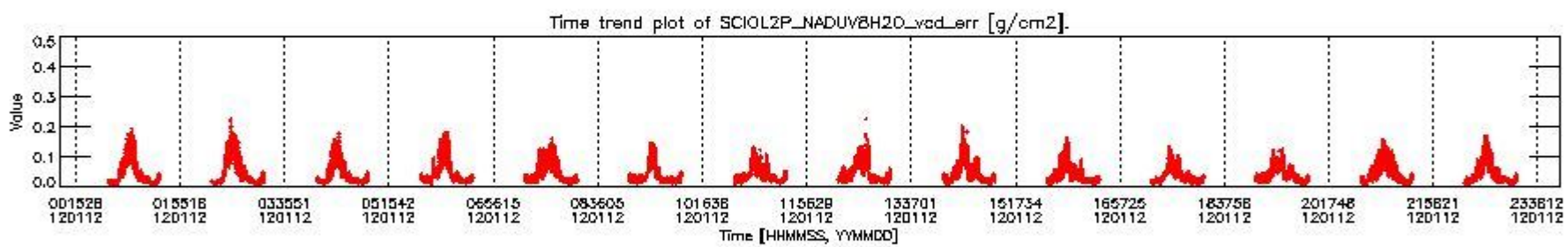
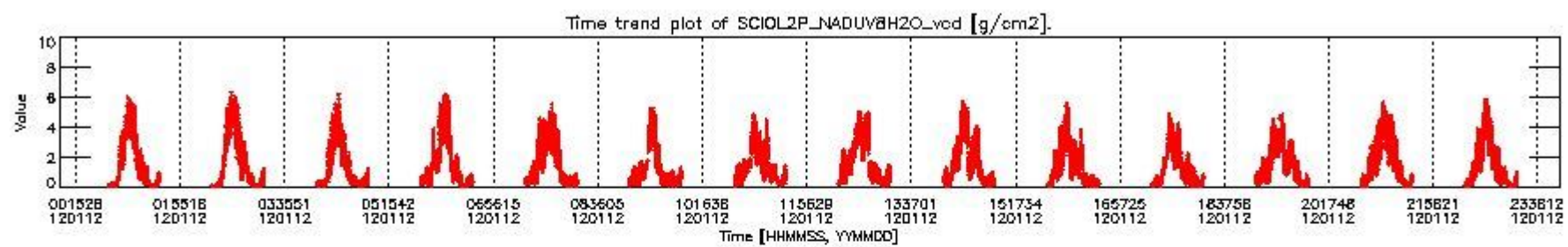
SCIDL2P_NADUV60CL_slant_col_den for 12JAN2012 00:00:00 to 13JAN2012 00:00:00 np;SCIDL2P_NADUV60CL_err_slant_col for 12JAN2012 00:00:00 to 13JAN2012 00:00:00 np



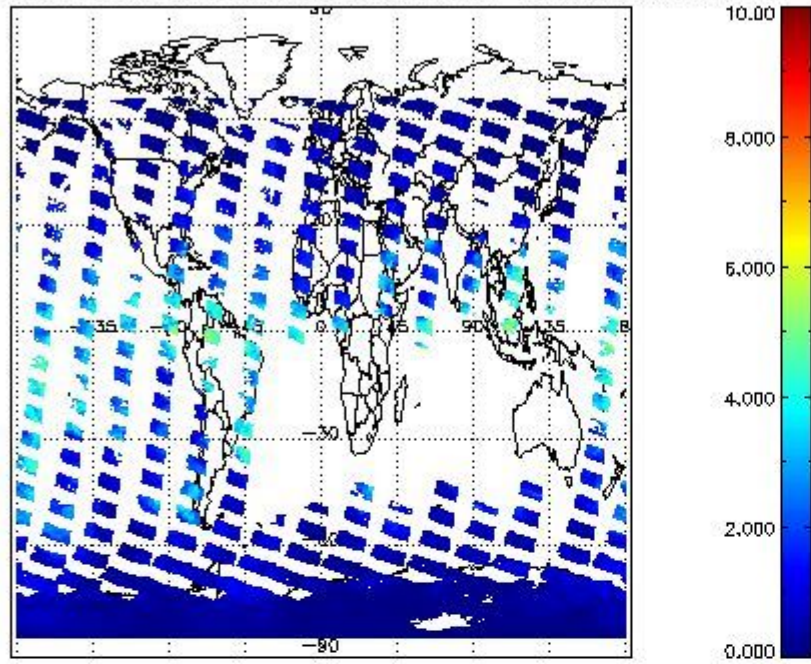
SCIOL2P_NADUV60CL_slant_col_den for 12JAN2012 00:00:00 to 13JAN2012 00:00:00 sp SCIOL2P_NADUV60CL_err_slant_col for 12JAN2012 00:00:00 to 13JAN2012 00:00:00 sp



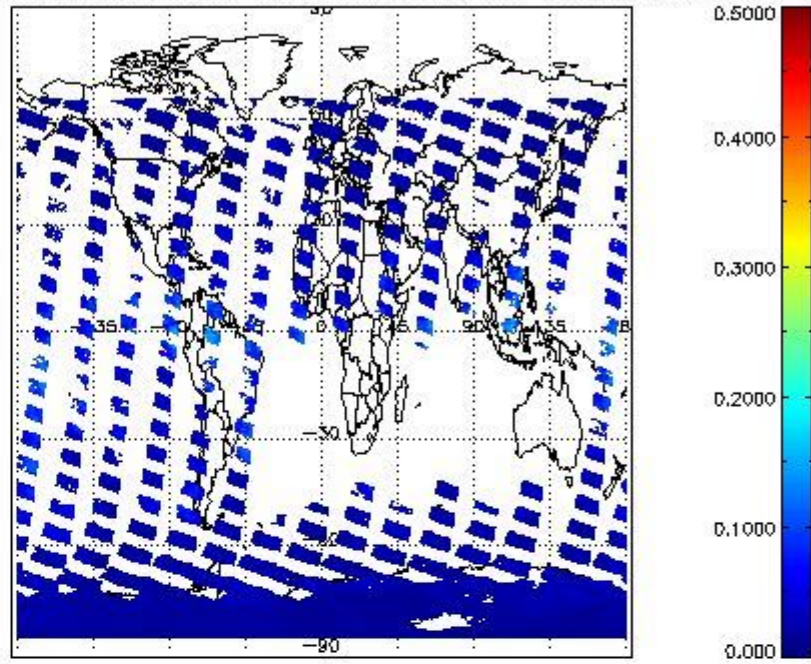
2.2.2.7 H2O (UV8)



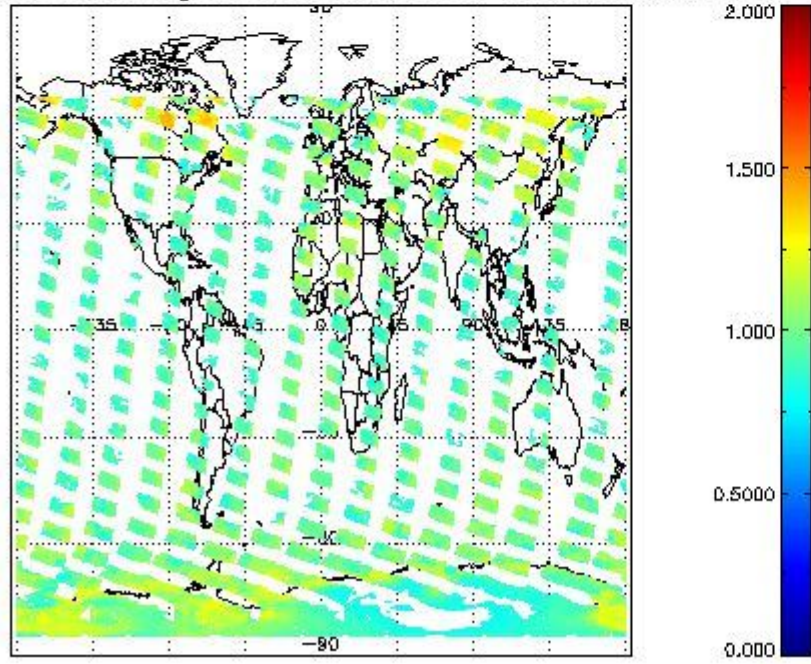
SCIOL2P_NADUV8H20_vcd for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

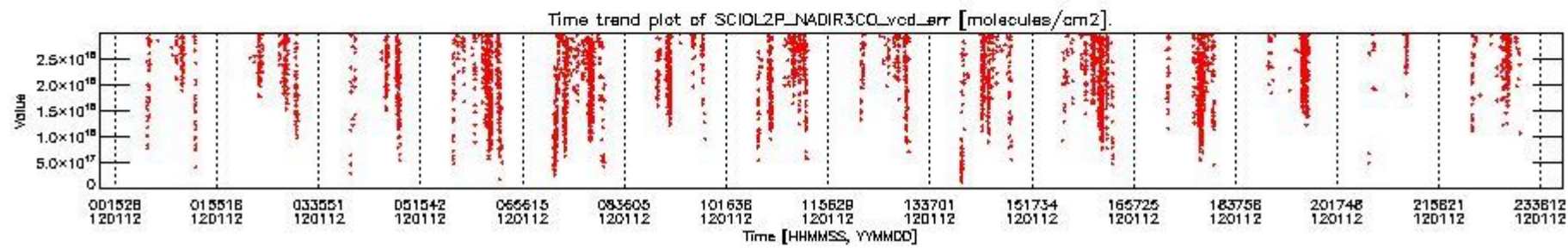
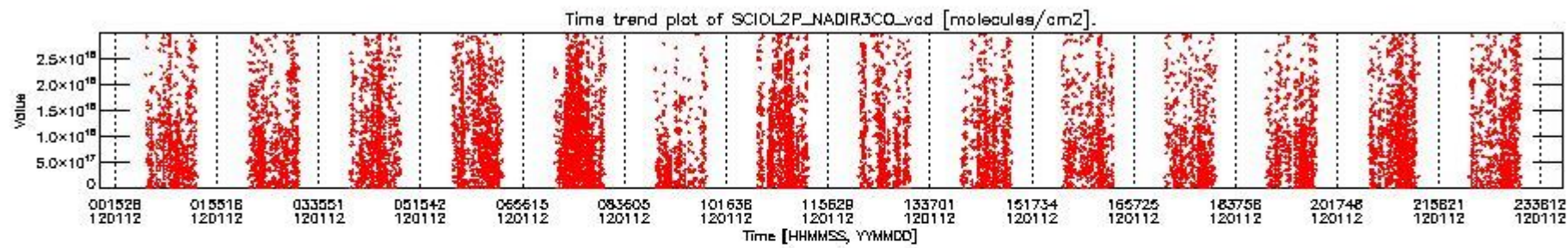


SCIOL2P_NADUV8H20_vcd_err for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

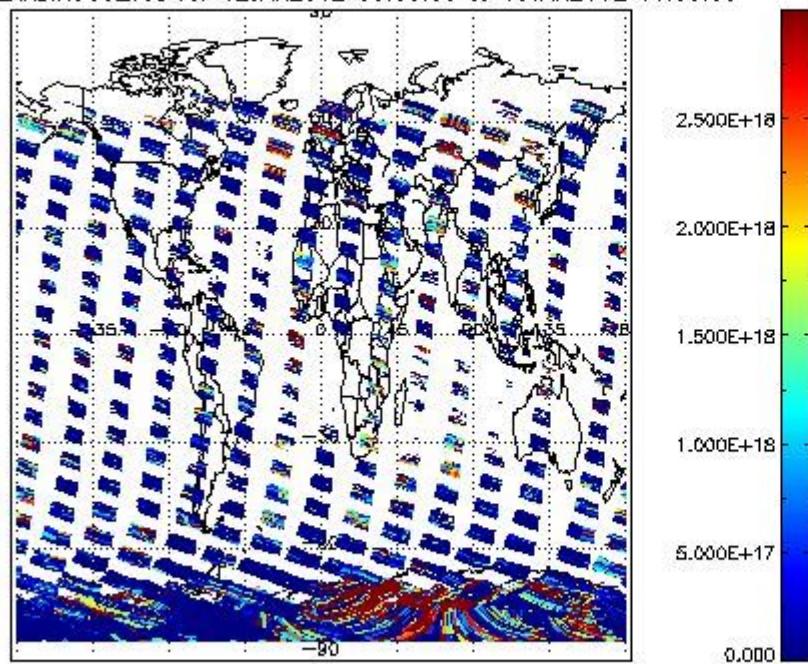


SCIOL2P_NADUV8H20_amf_gr for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

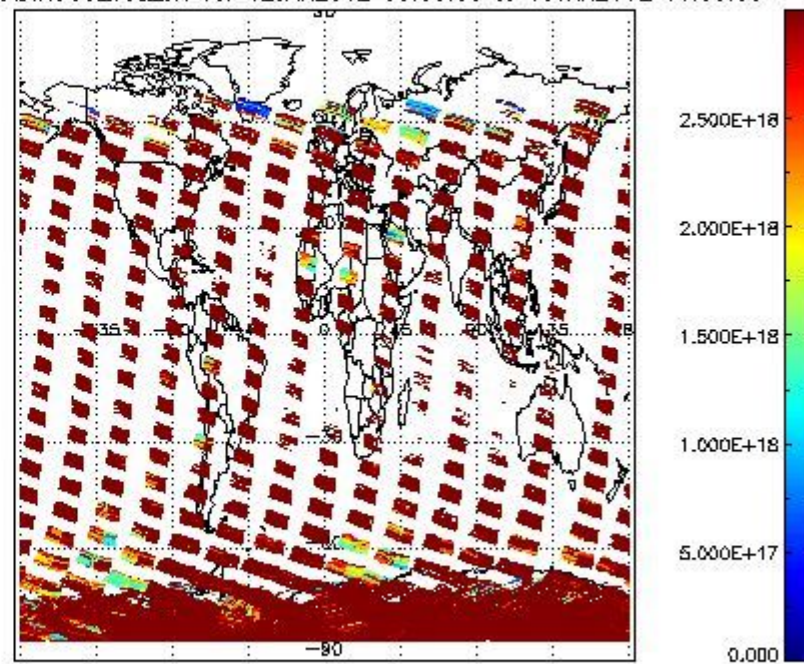




SCIDL2P_NADIR3CO_vcd for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



SCIDL2P_NADIR3CO_vcd_err for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



2.2.3 Limb

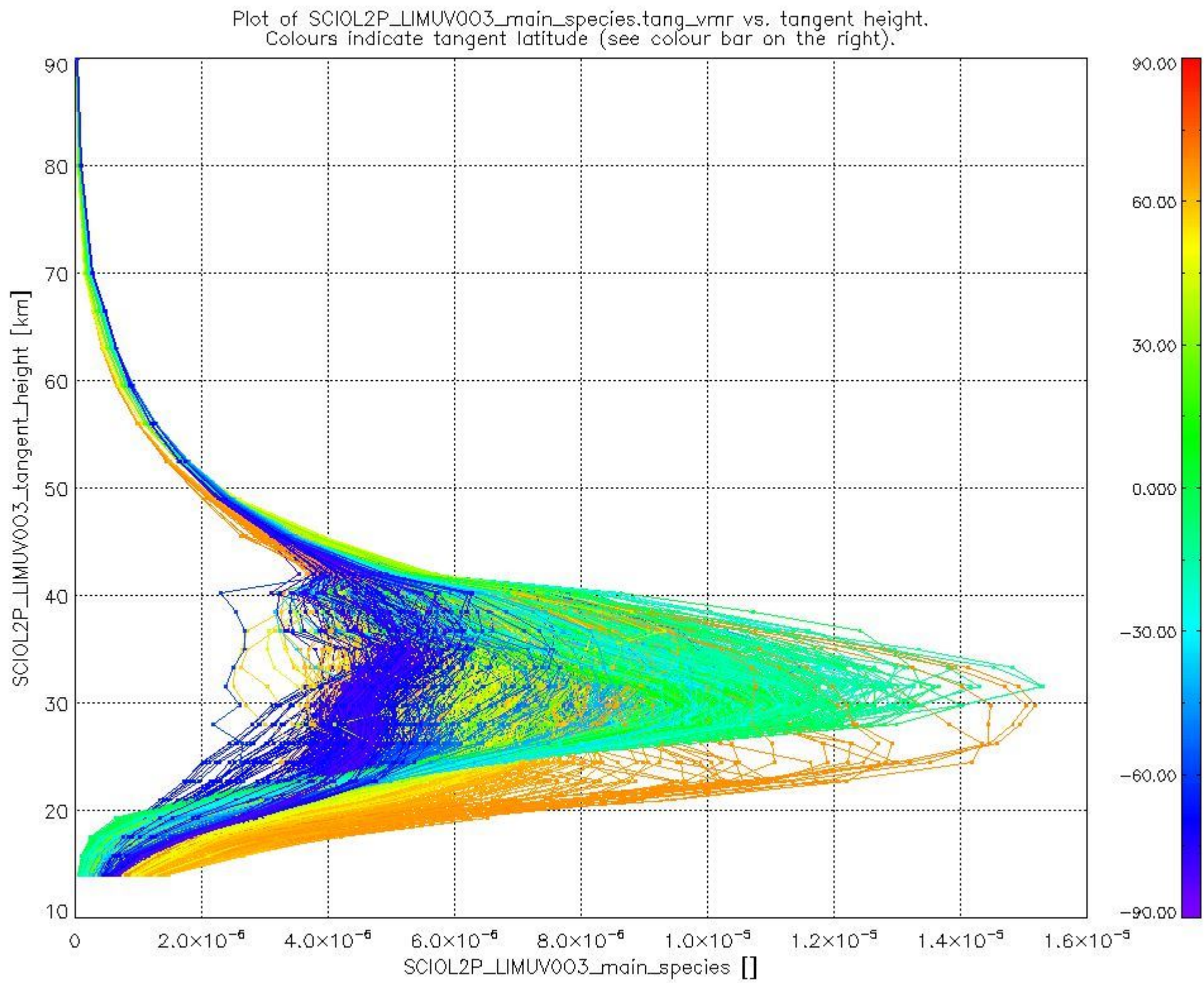
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

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

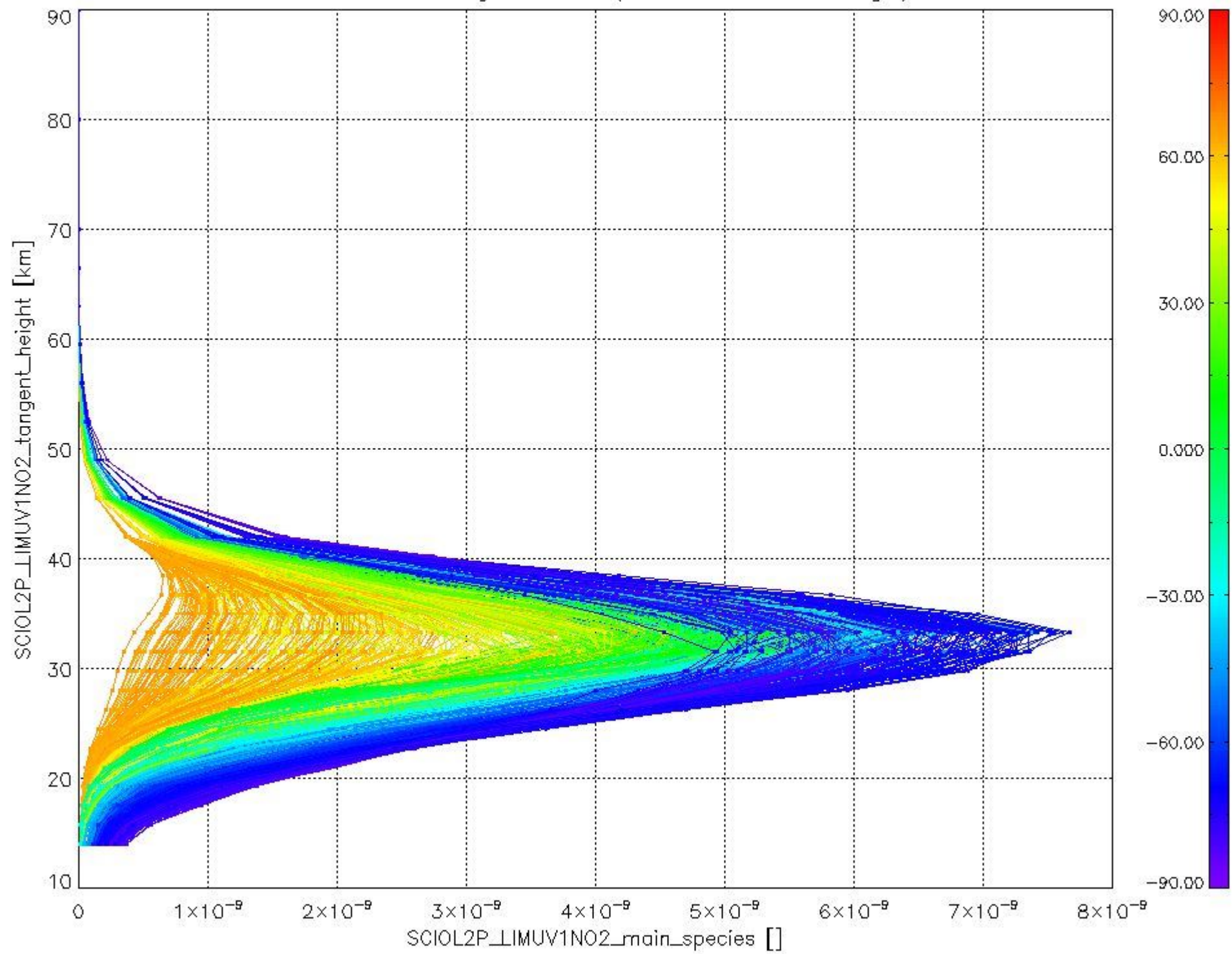
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



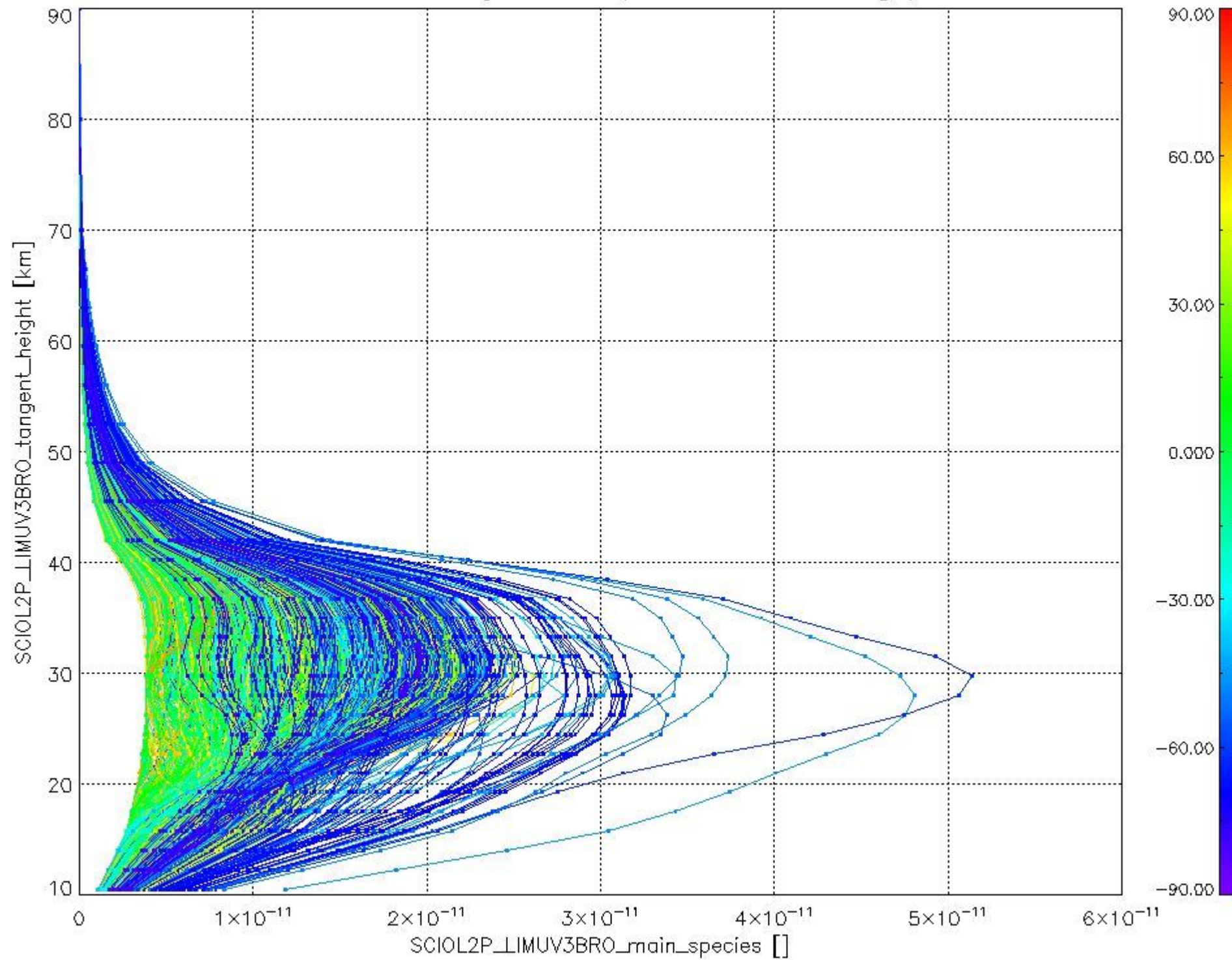
2.2.3.2 NO2 (UV1)

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)

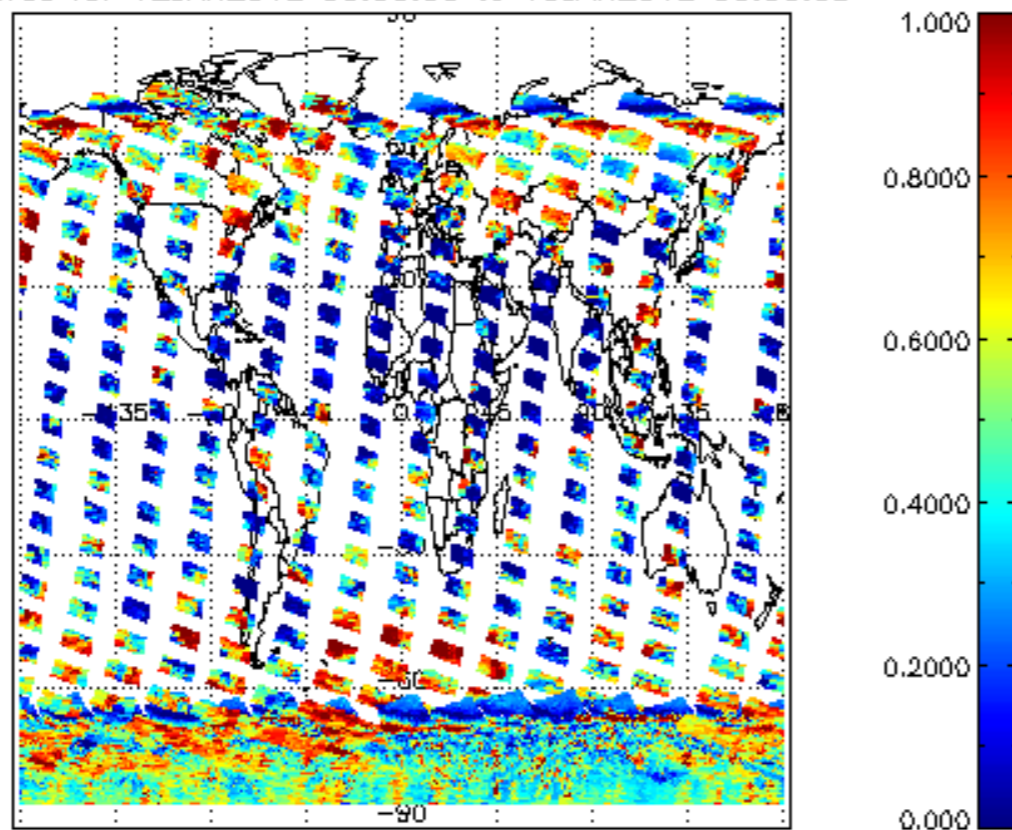
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



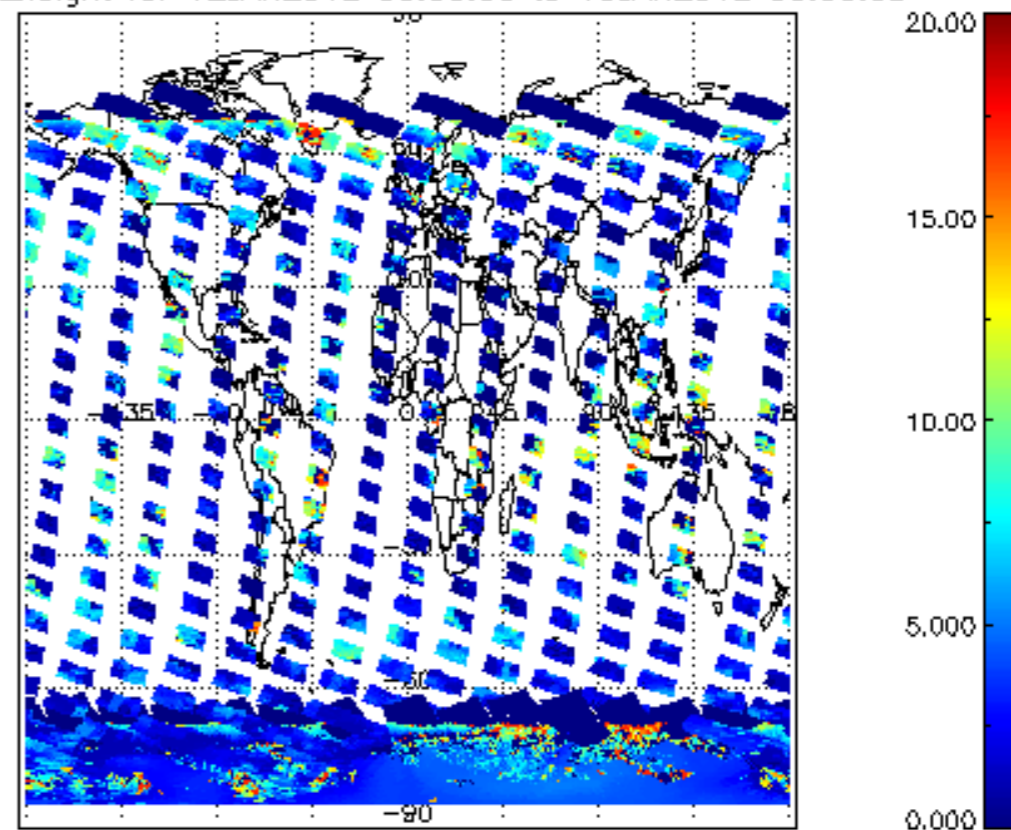
2.3 ADF monitoring

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_AXVIEC20120117_135501_20120111_185639_20120113_185639
3	SCI_MF1_AXVIEC20120117_135607_20120112_181954_20120114_181954

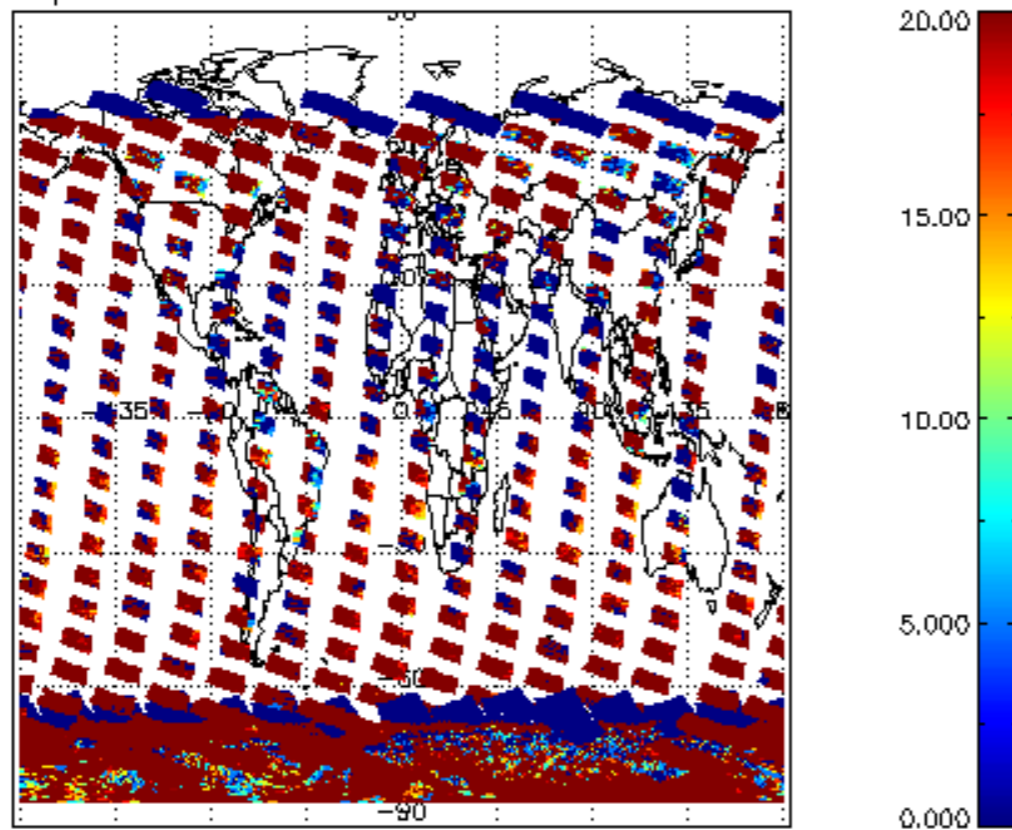
cL_frac for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



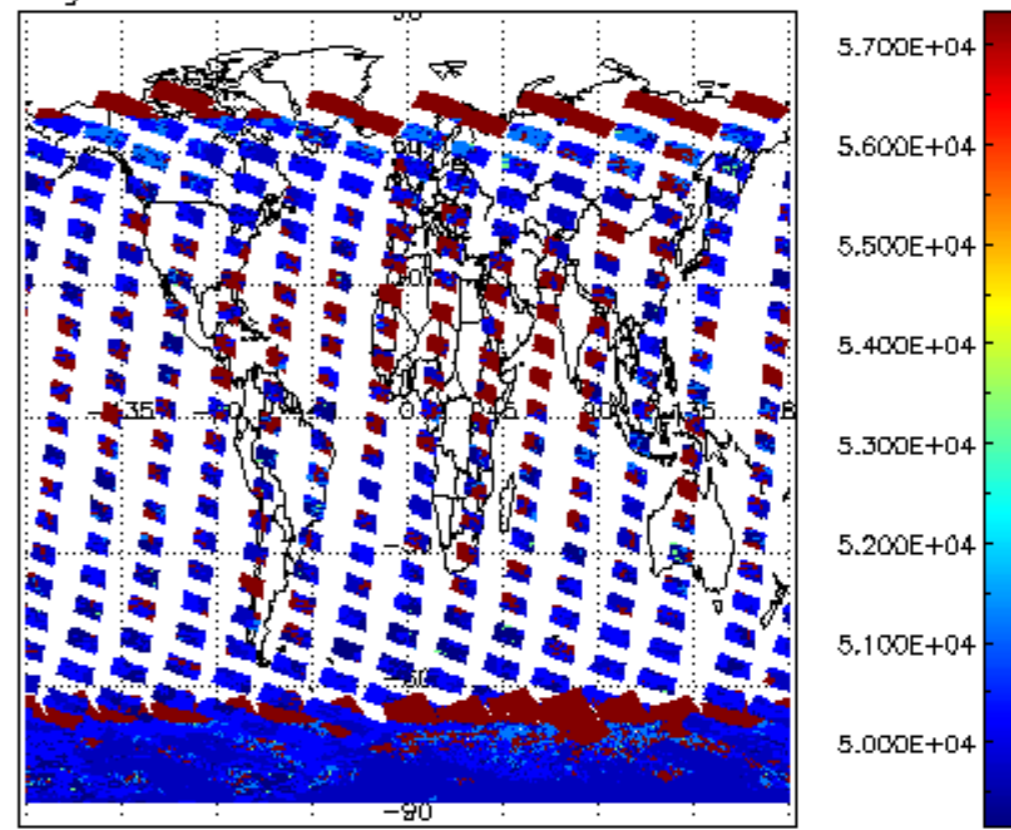
cL_top_height for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

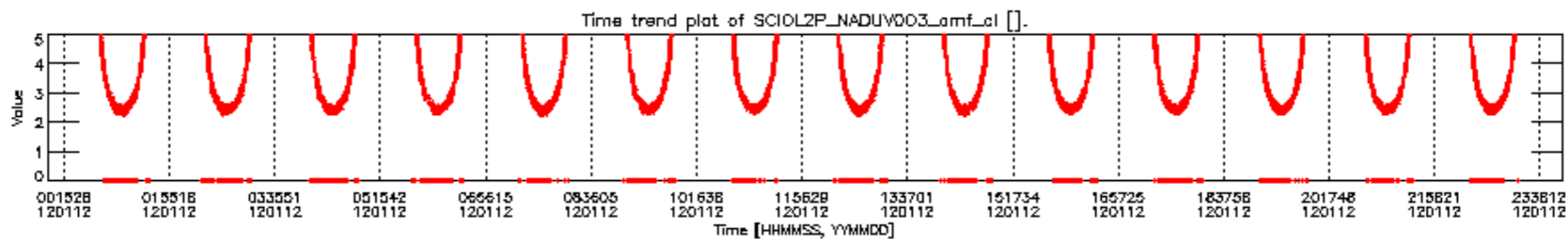
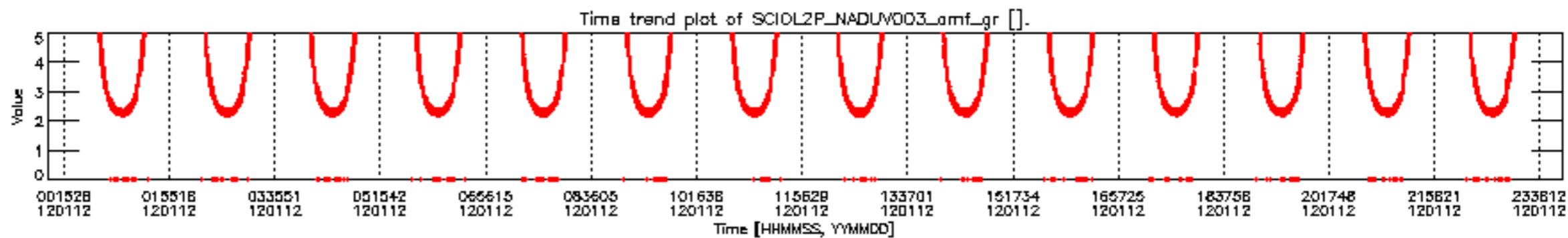
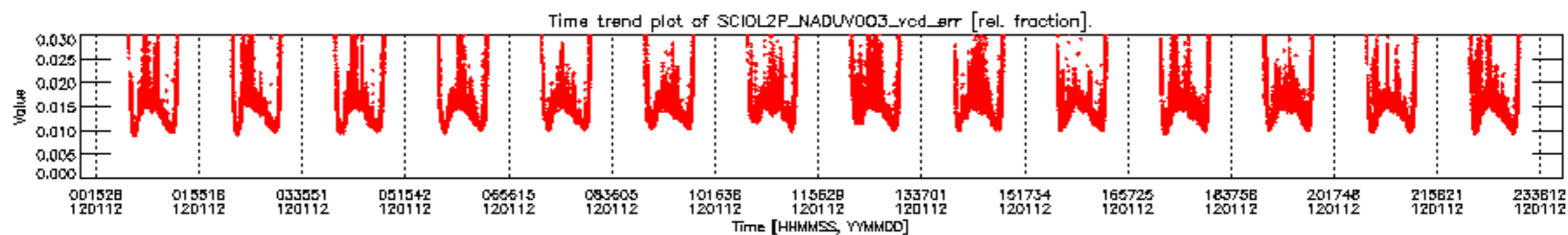
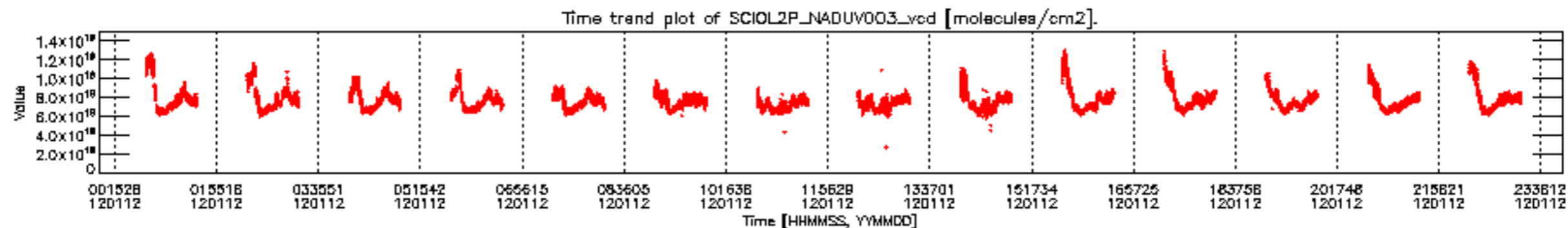


cLopt_depth for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

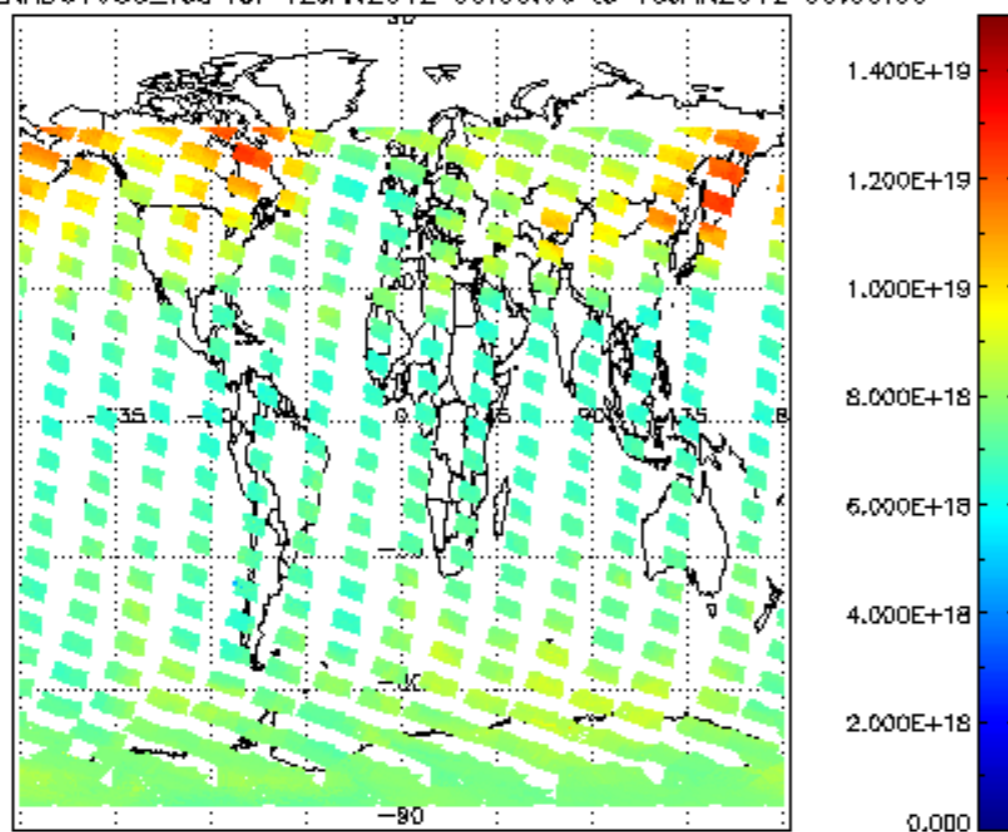


cloud_flags for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

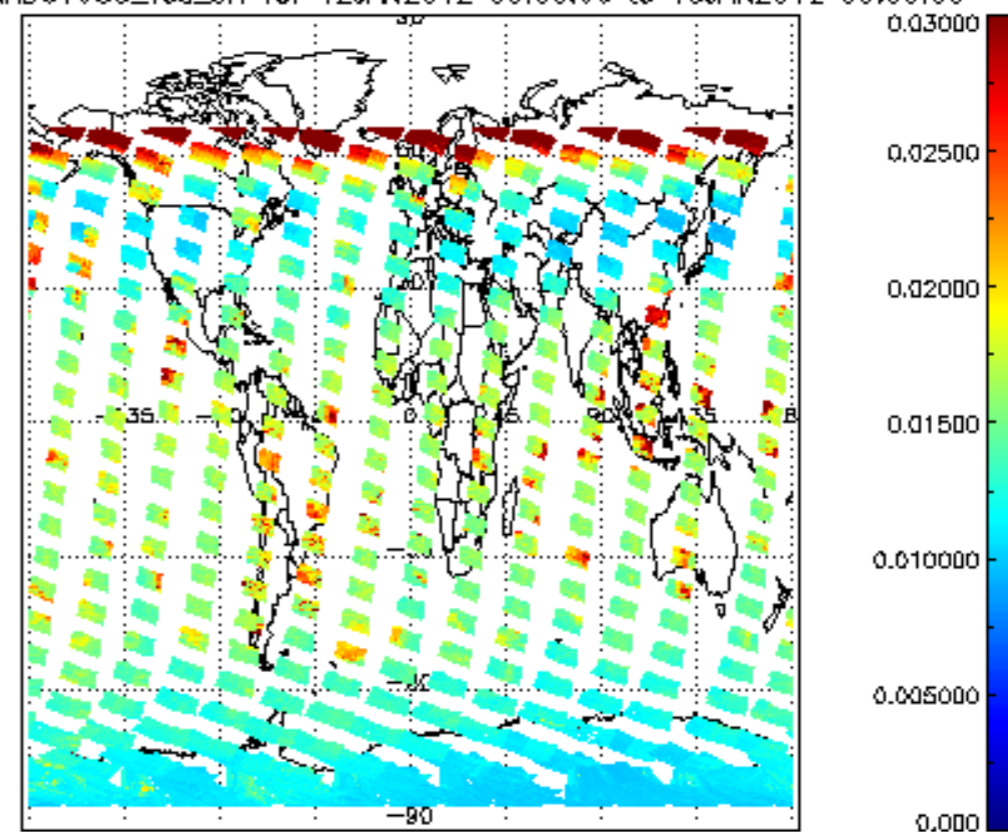




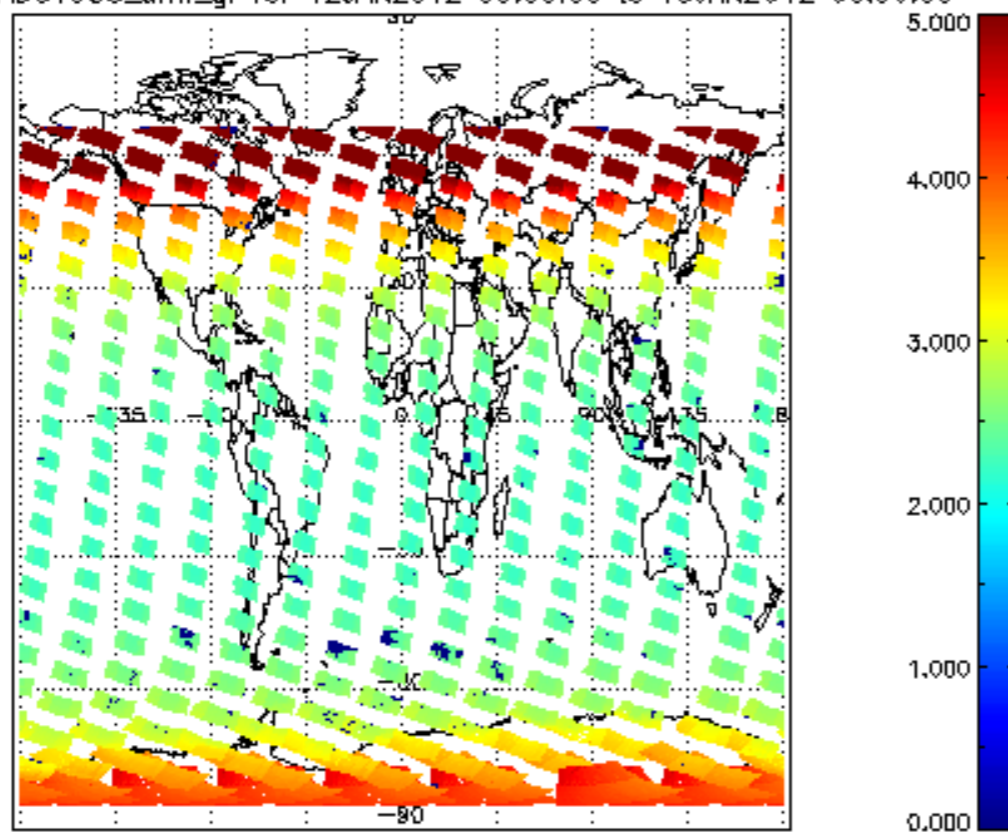
SCIOL2P_NADUV003_vcd for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



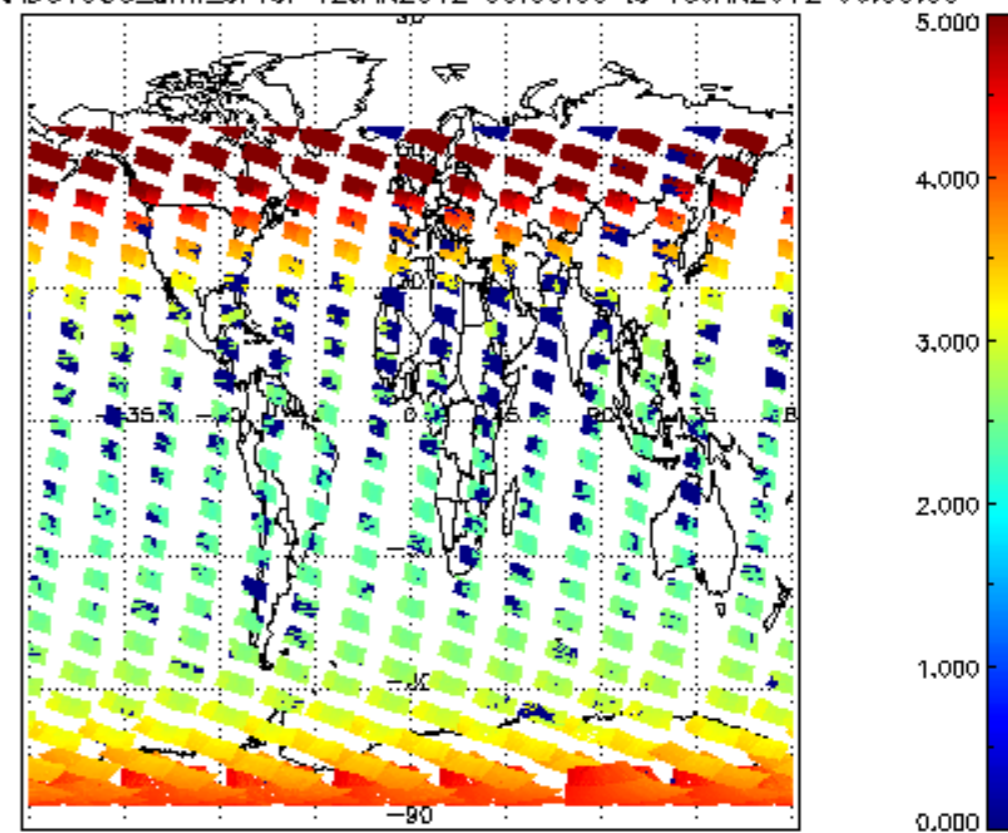
SCIOL2P_NADUV003_vcd_err for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

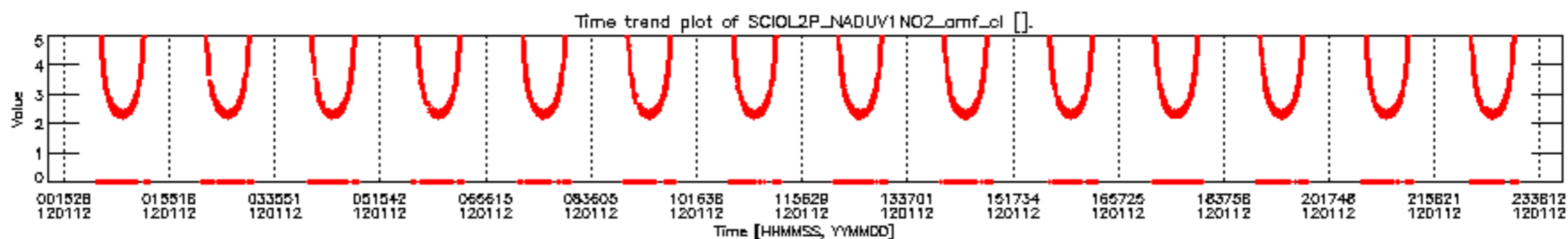
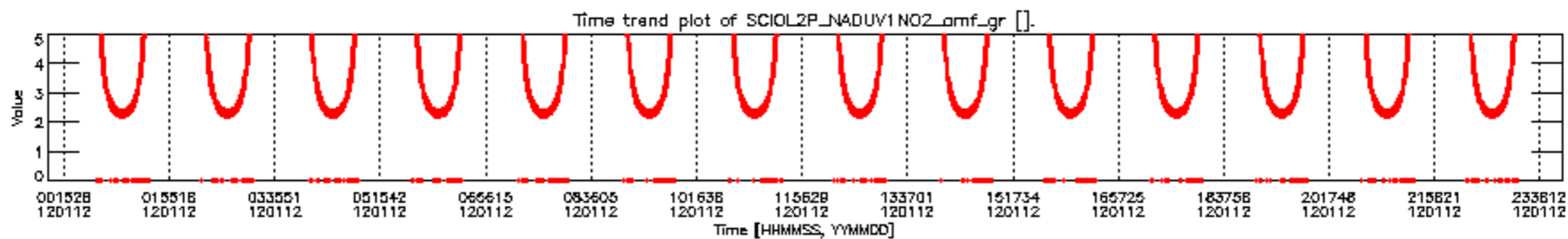
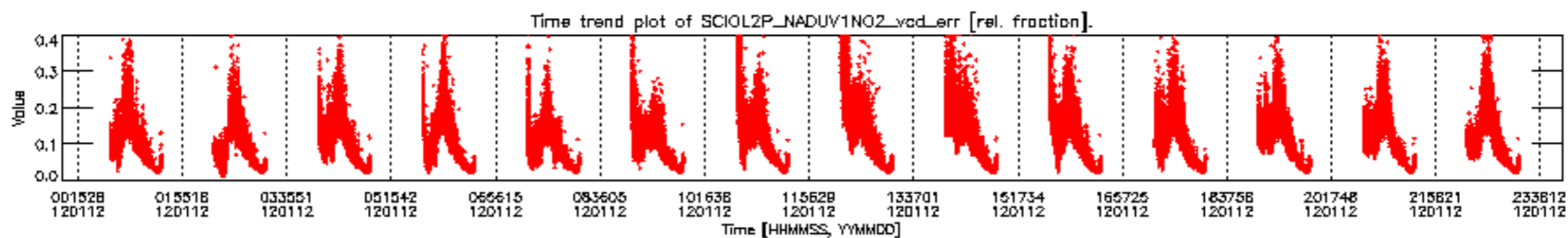
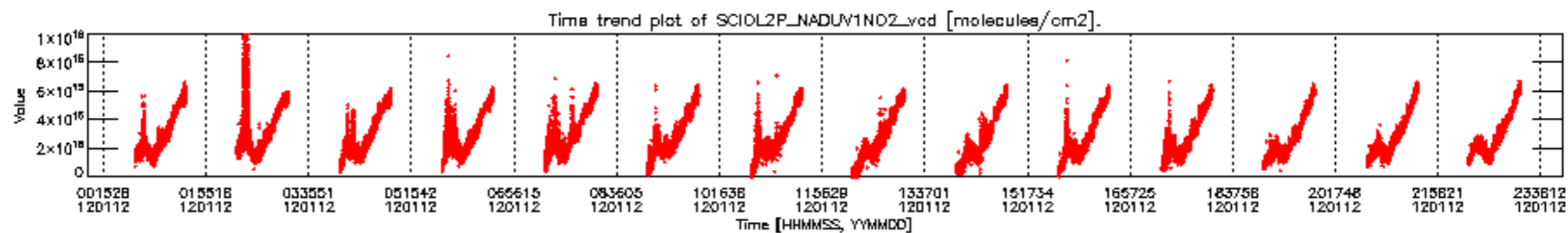


SCIOL2P_NADUV003_amf_gr for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

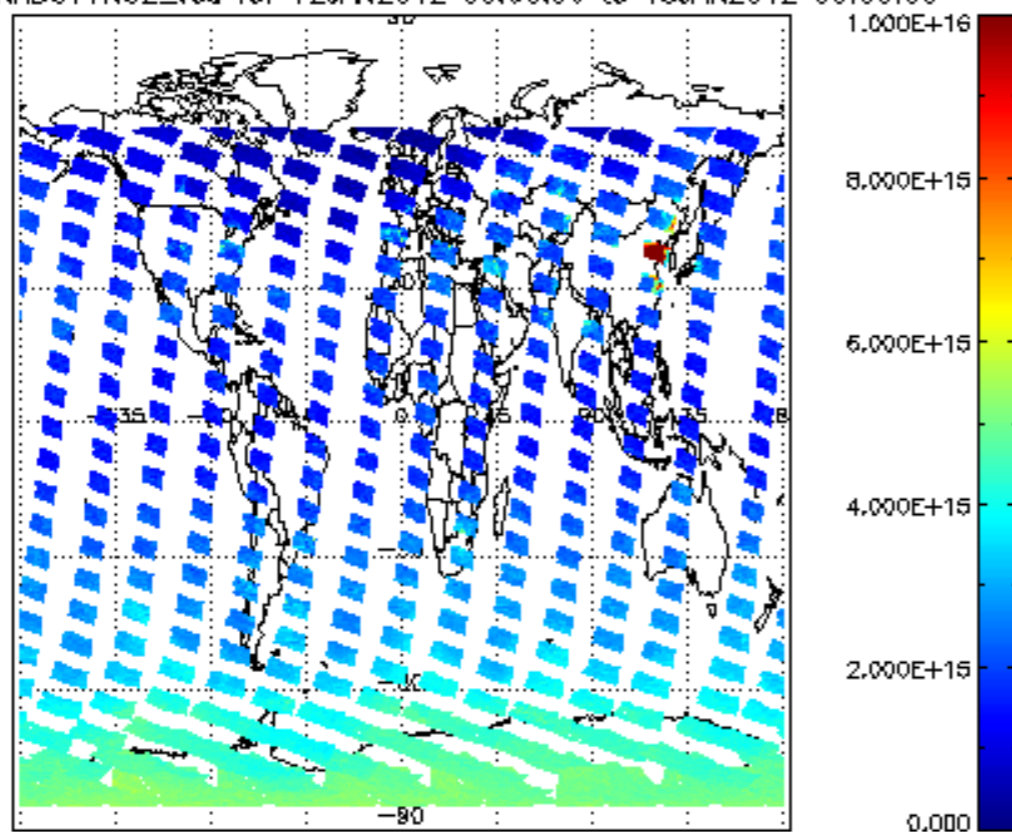


SCIOL2P_NADUV003_amf_cl for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

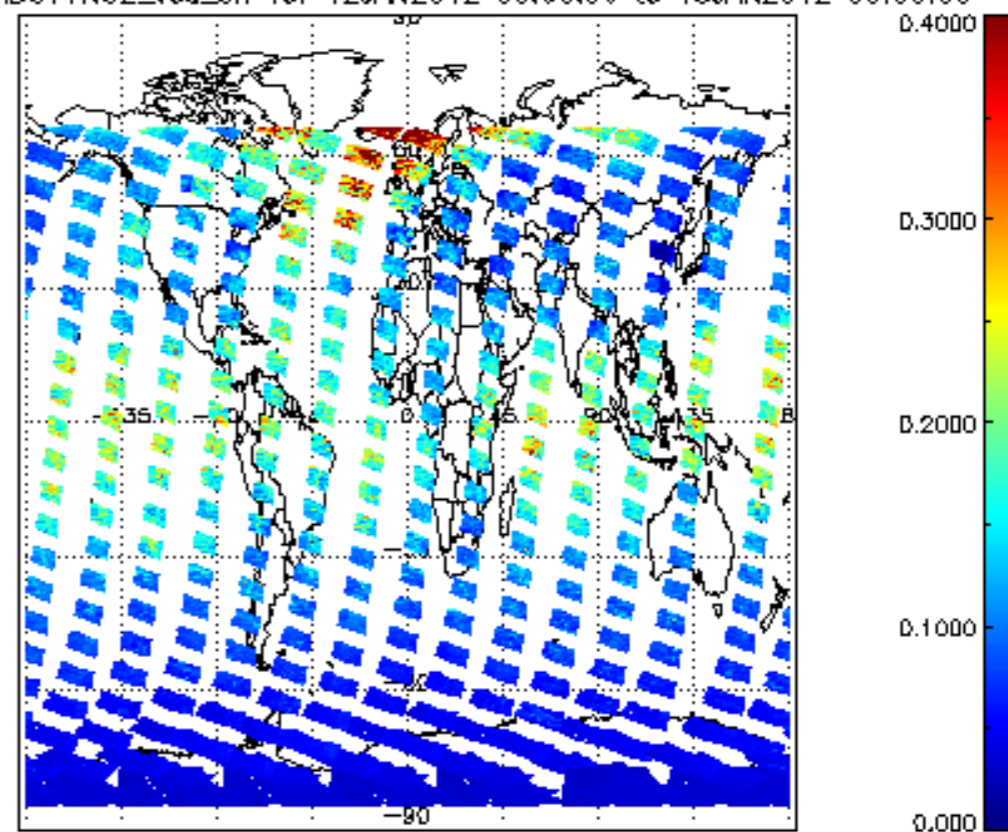




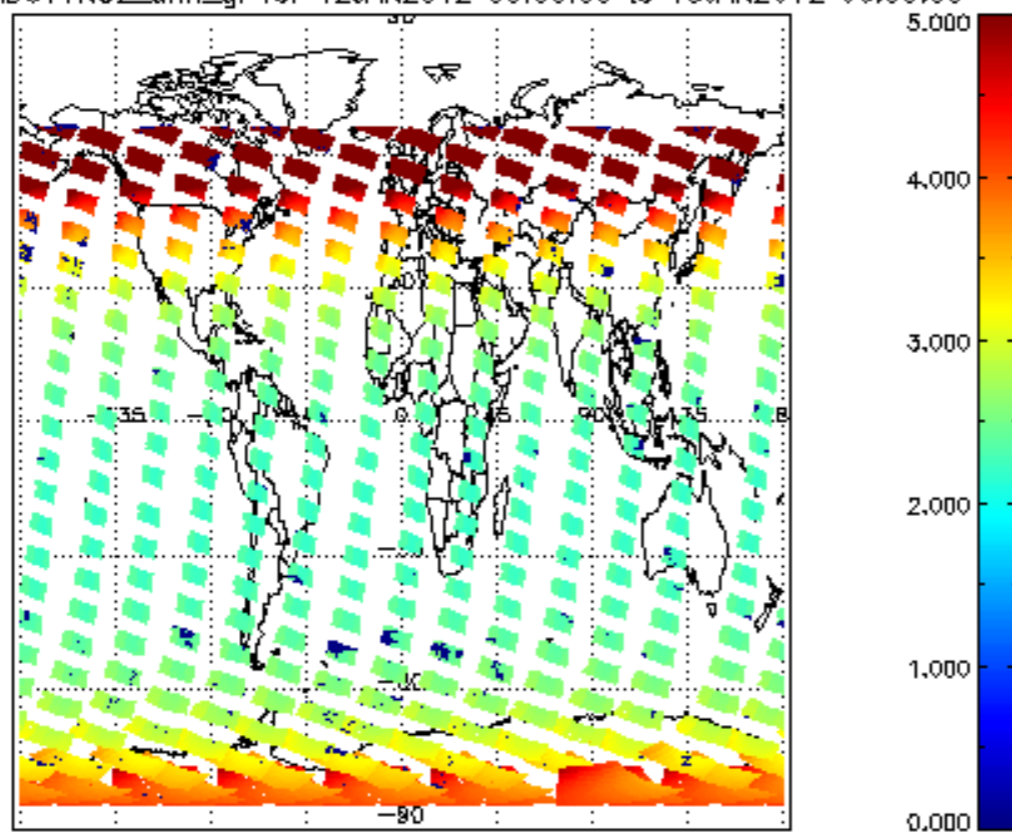
SCIOL2P_NADUV1NO2_vcd for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



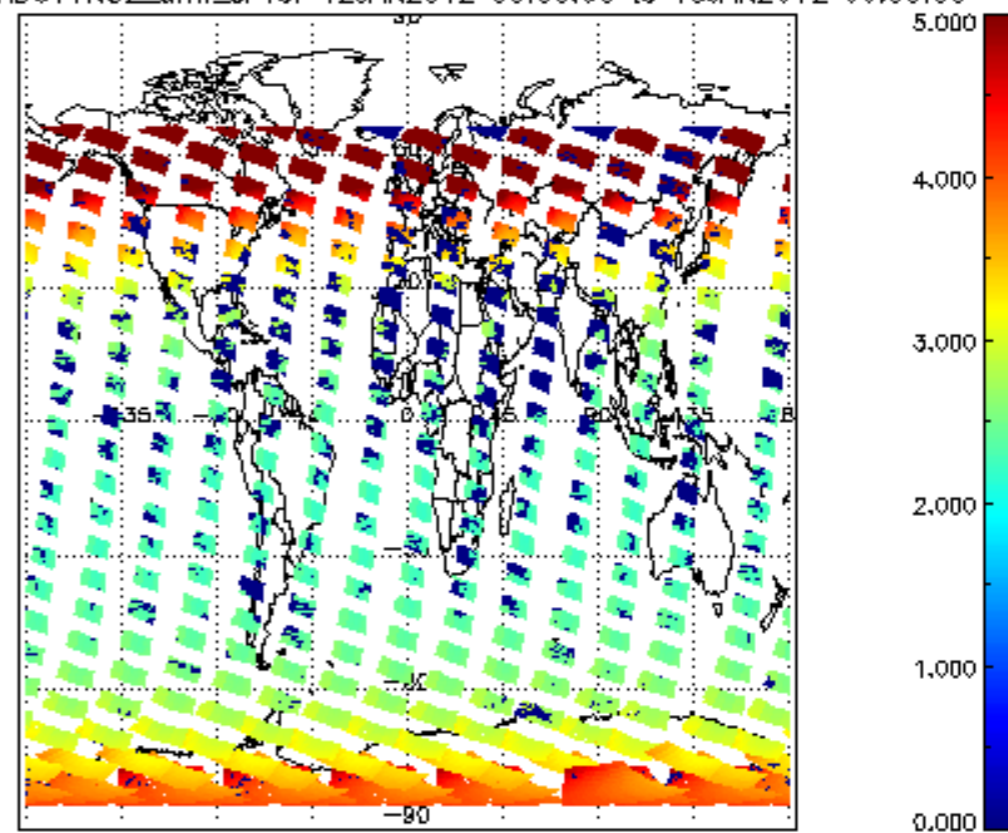
SCIOL2P_NADUV1NO2_vcd_err for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

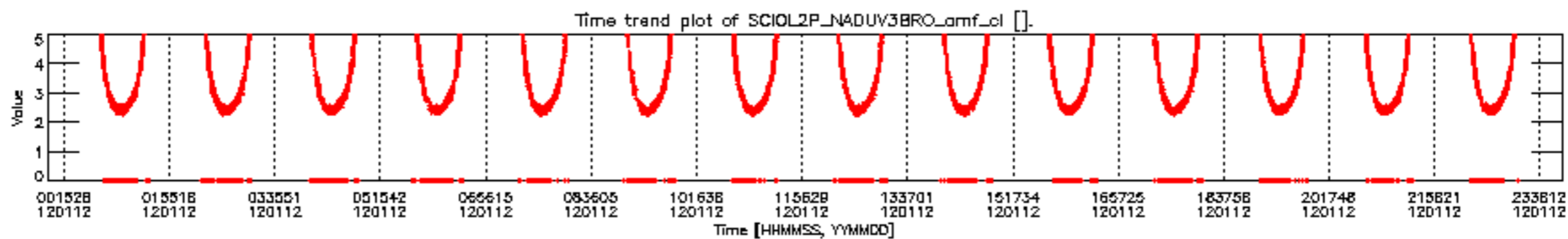
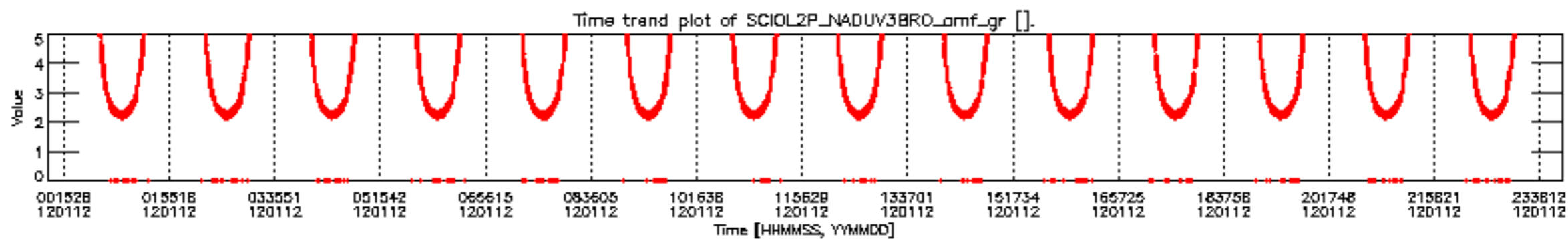
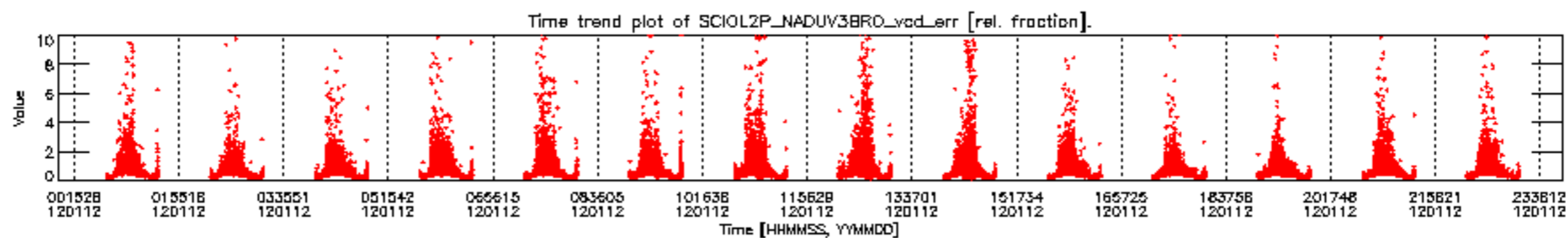
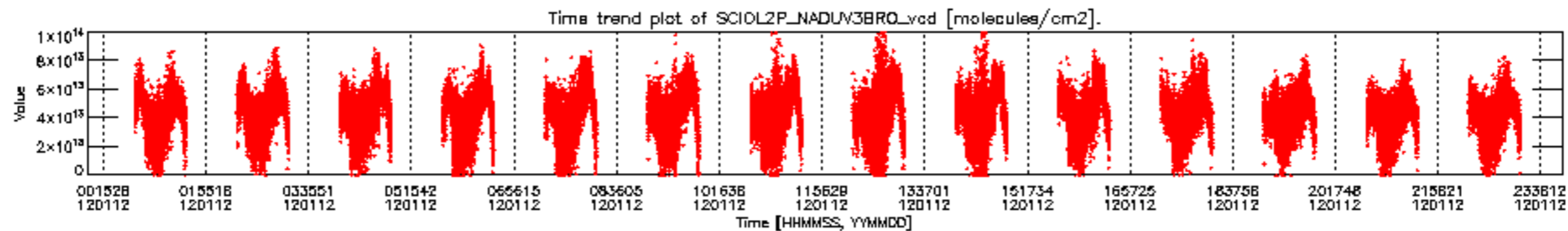


SCIOL2P_NADUV1NO2_amf_gr for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

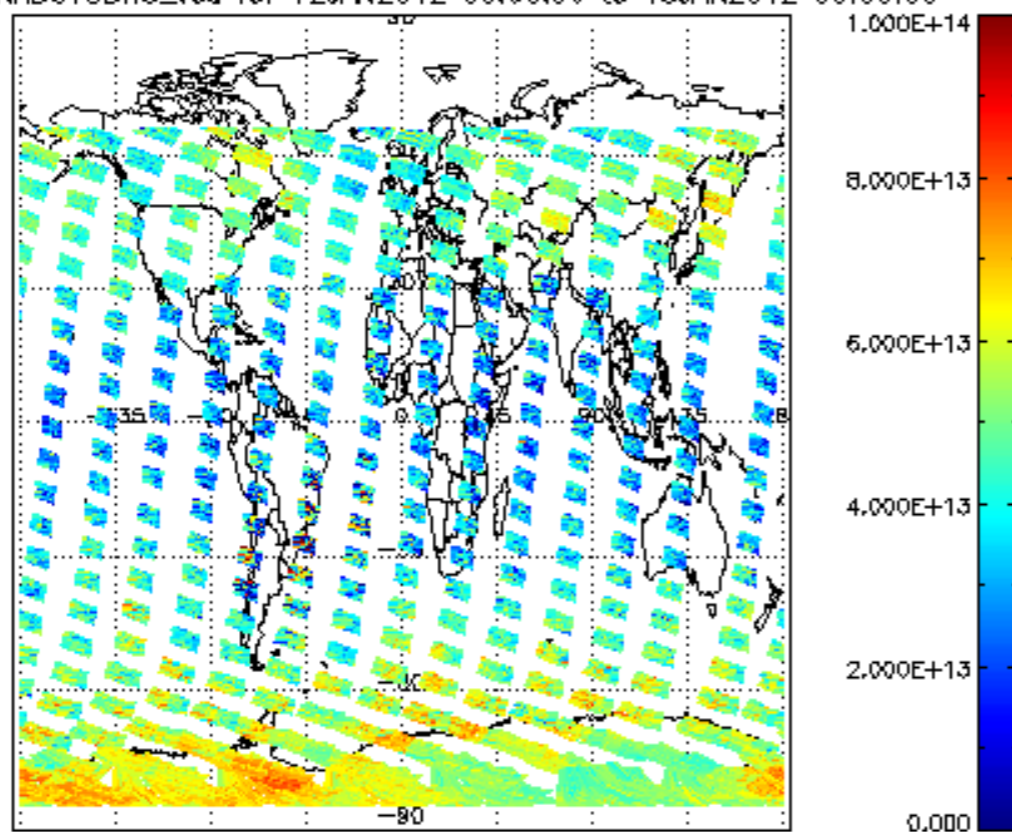


SCIOL2P_NADUV1NO2_amf_cl for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

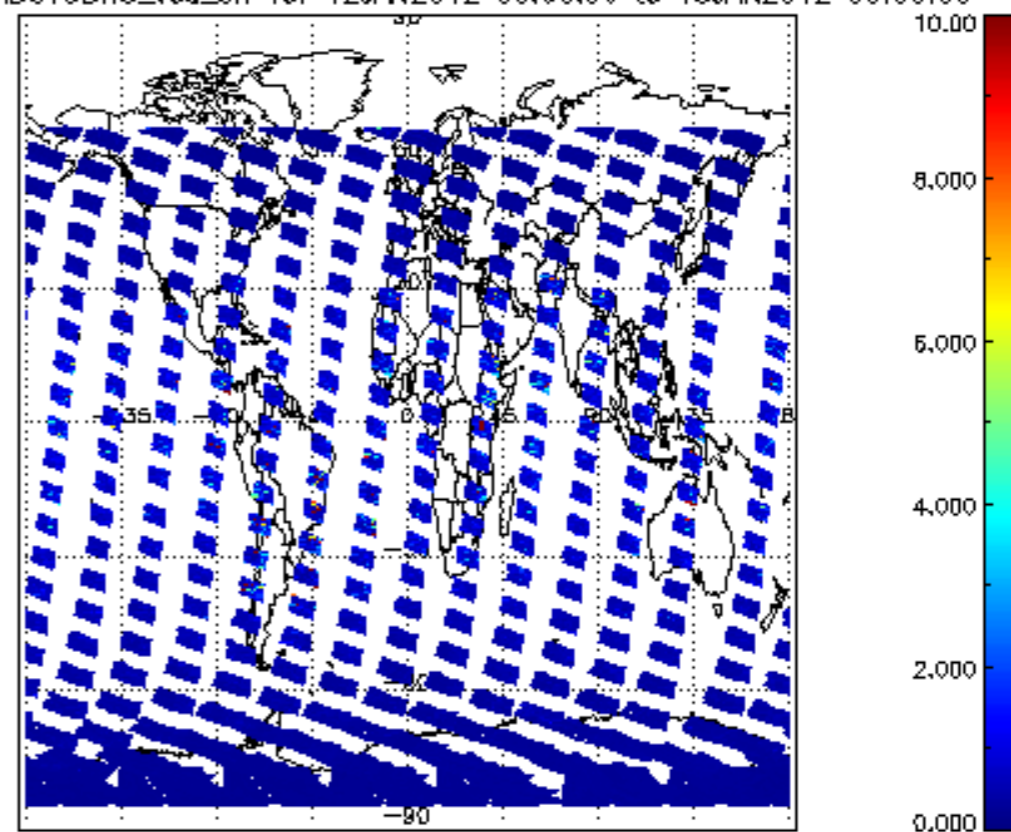




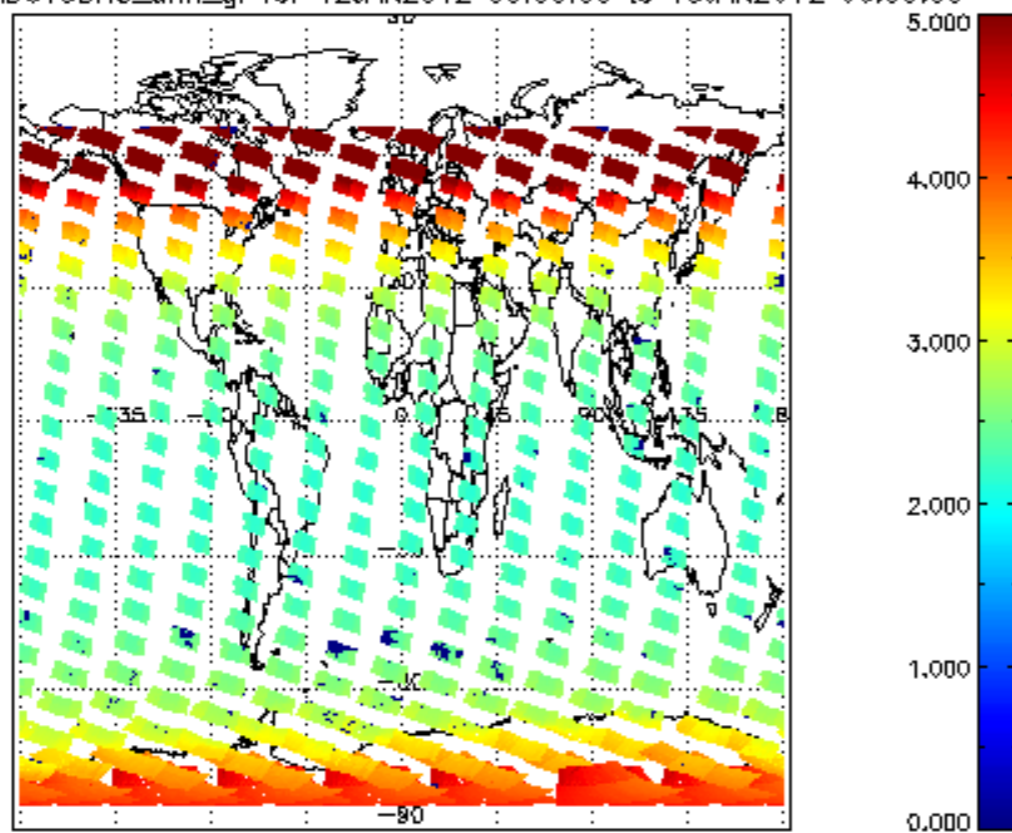
SCIOL2P_NADUV3BRO_vcd for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



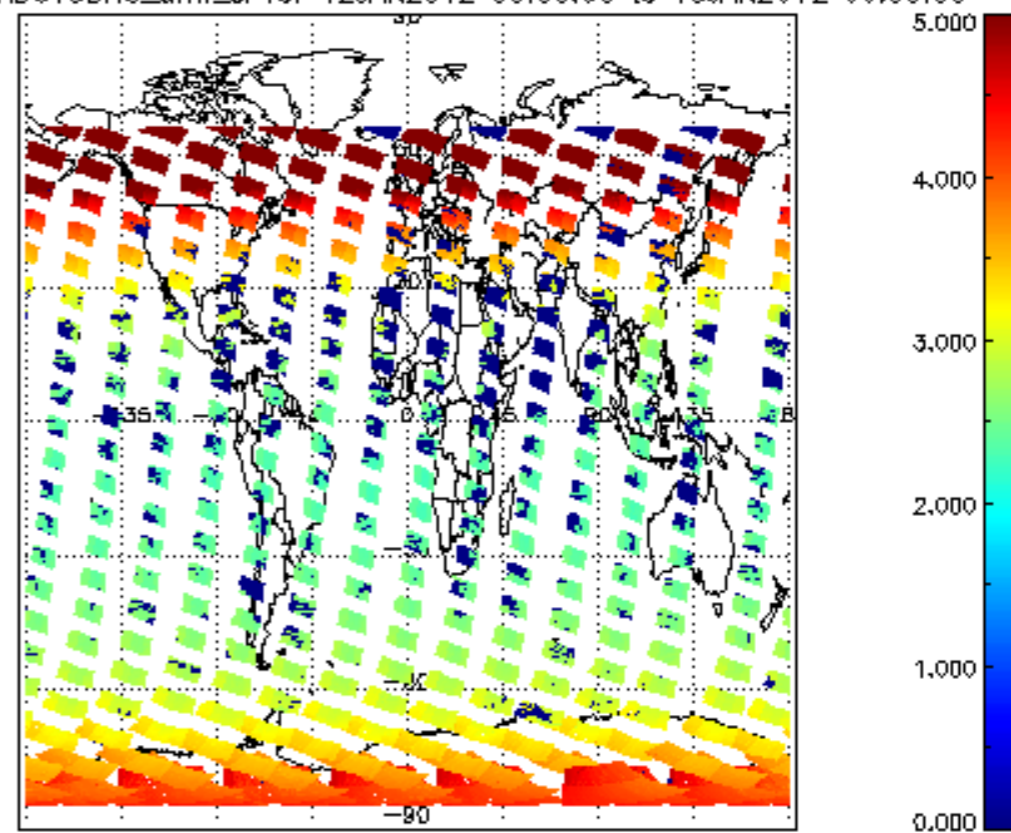
SCIOL2P_NADUV3BRO_vcd_err for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

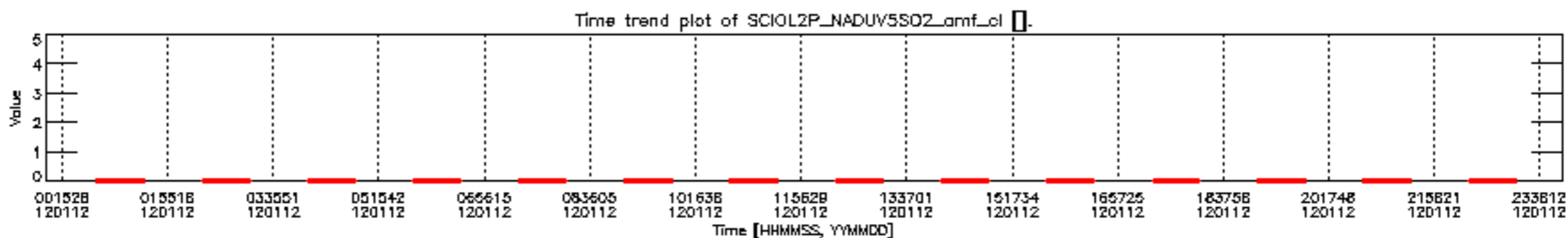
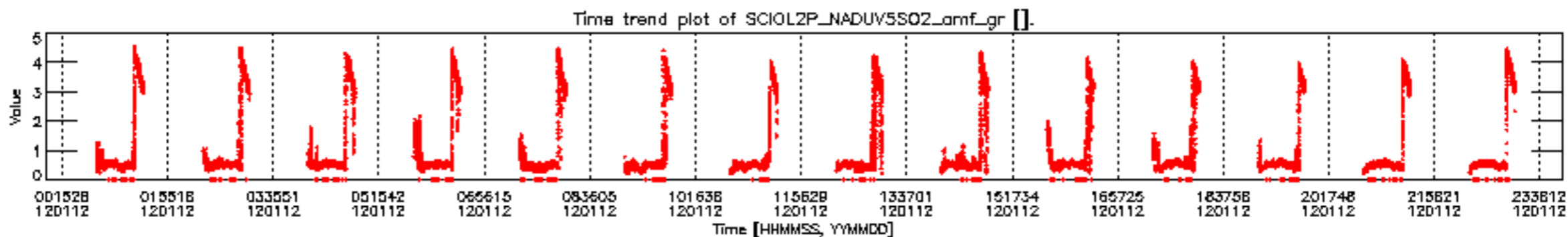
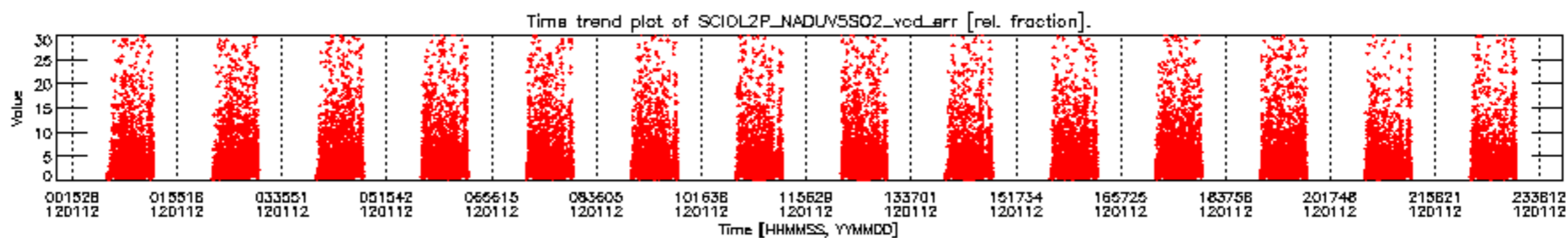
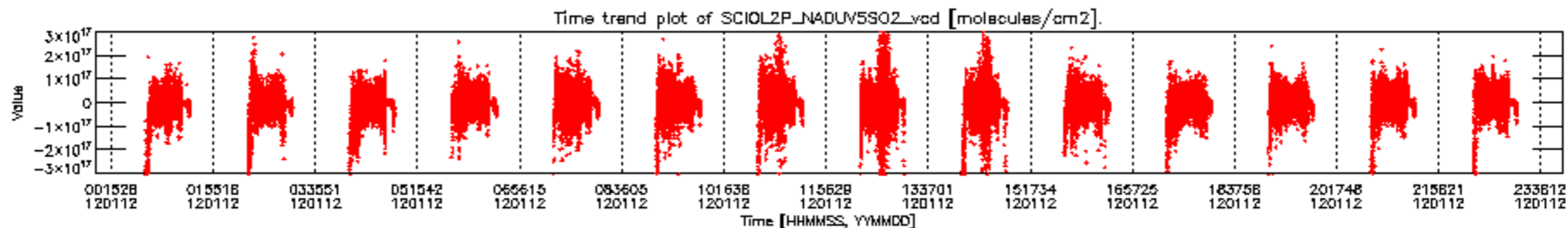


SCIOL2P_NADUV3BRO_amf_gr for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

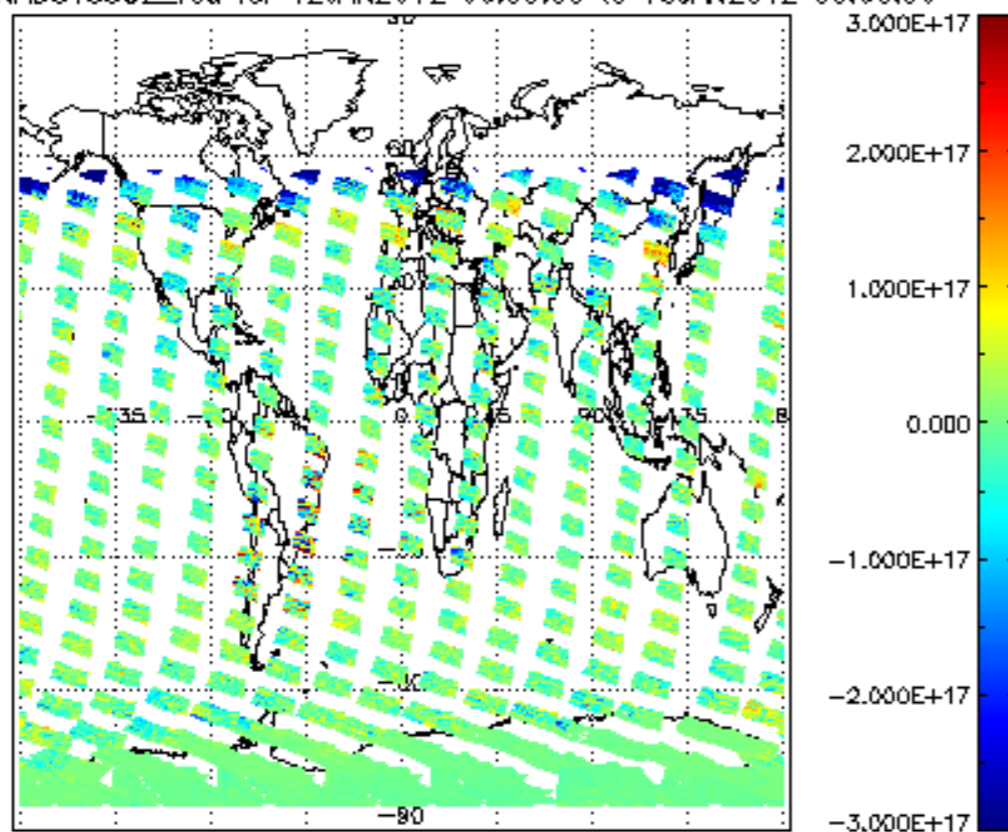


SCIOL2P_NADUV3BRO_amf_cl for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

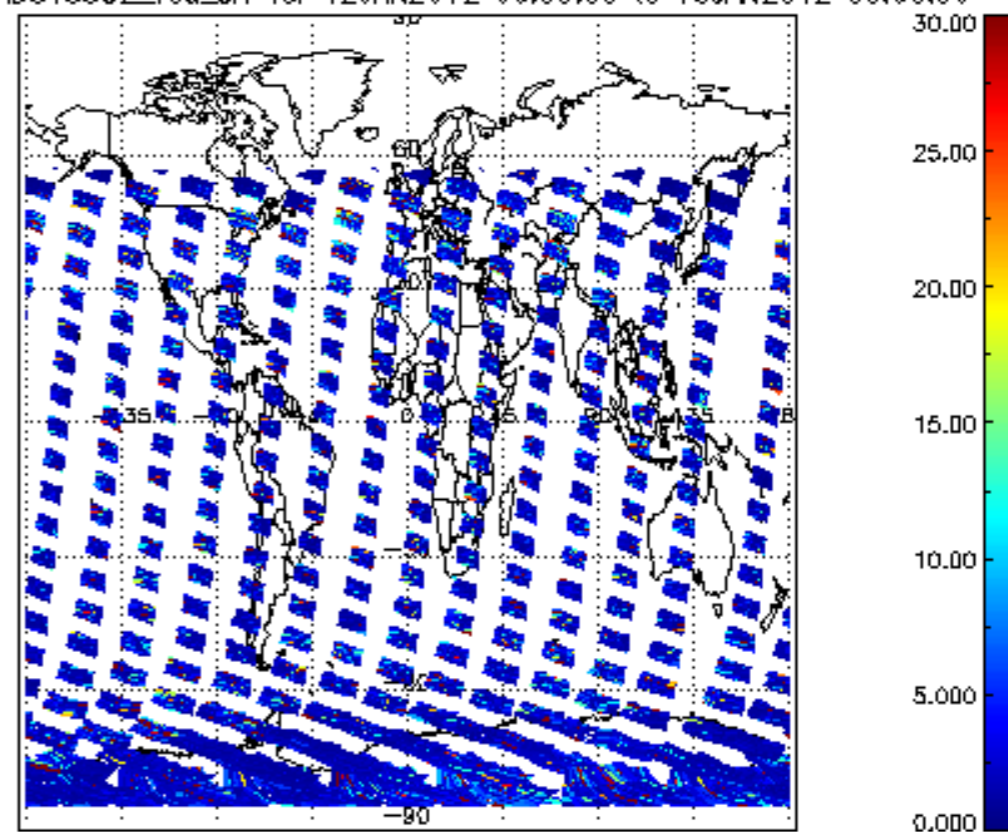




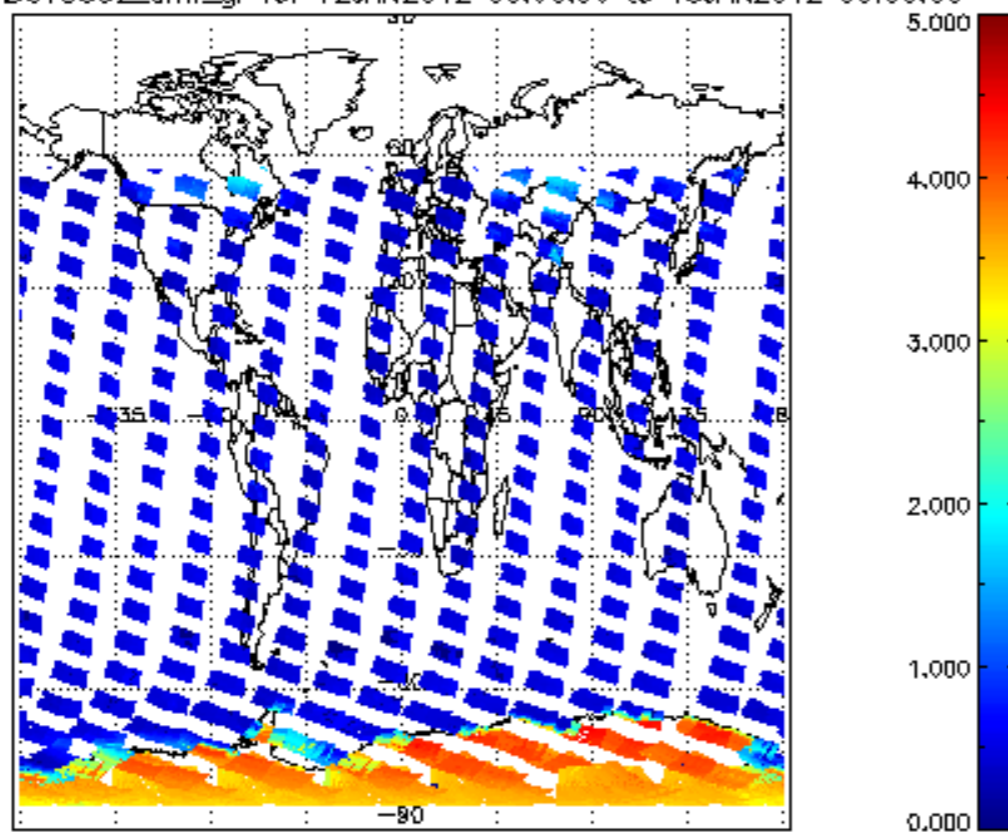
SCIOL2P_NADUV5S02_vcd for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



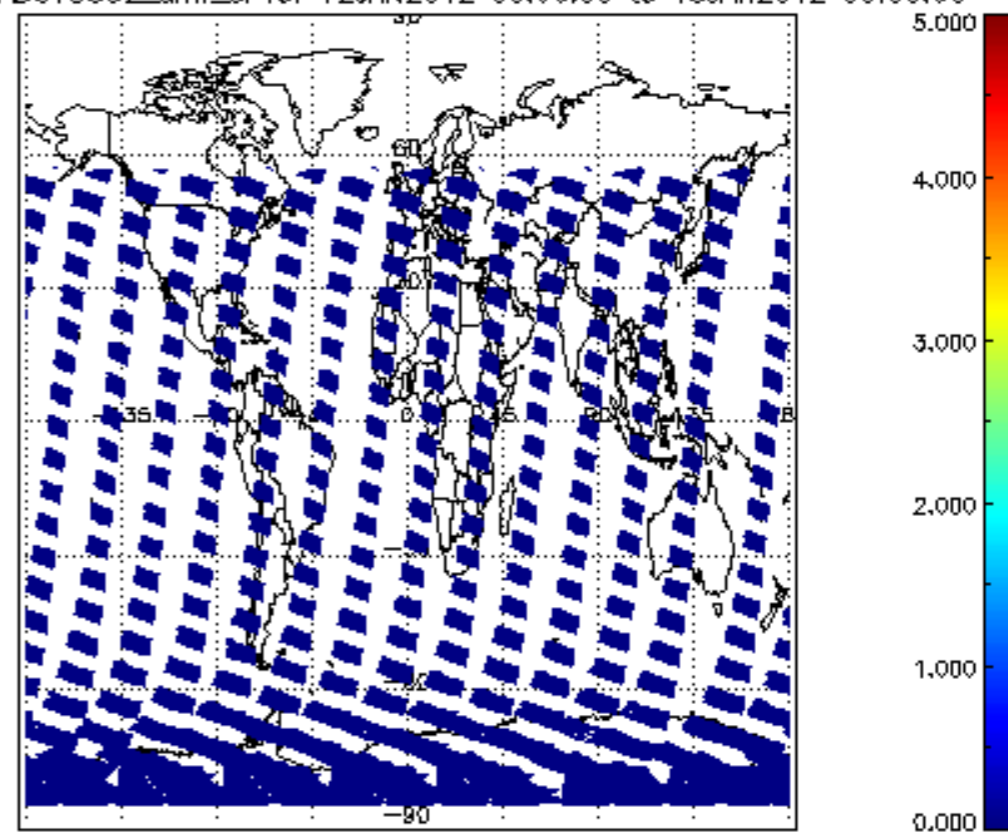
SCIOL2P_NADUV5S02_vcd_err for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

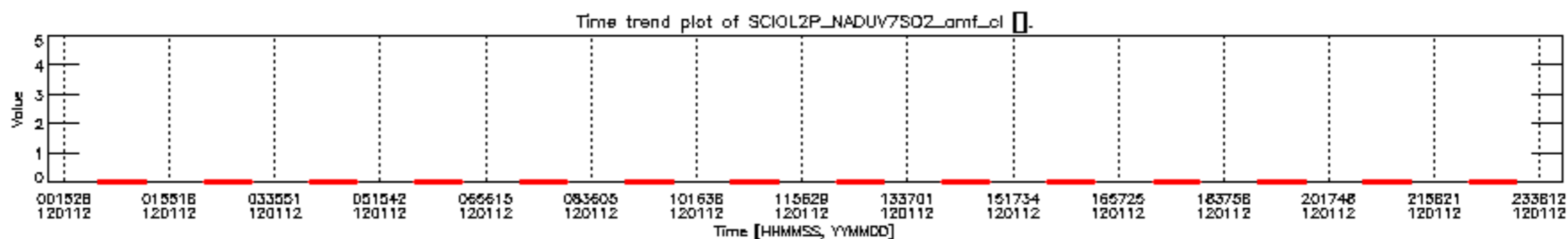
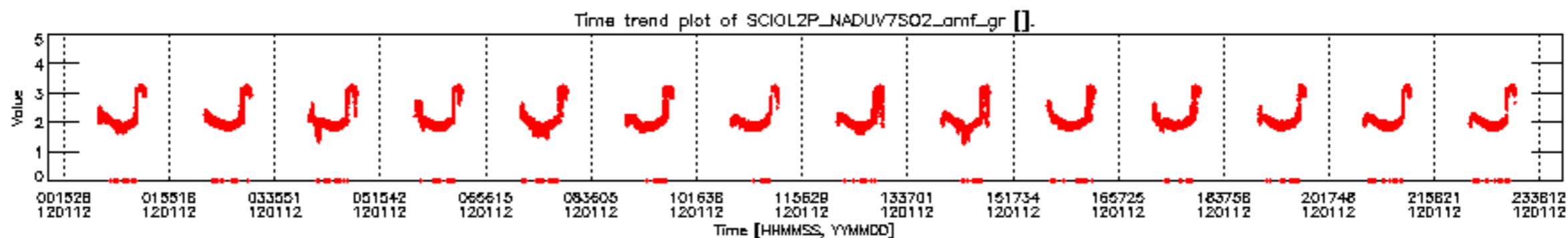
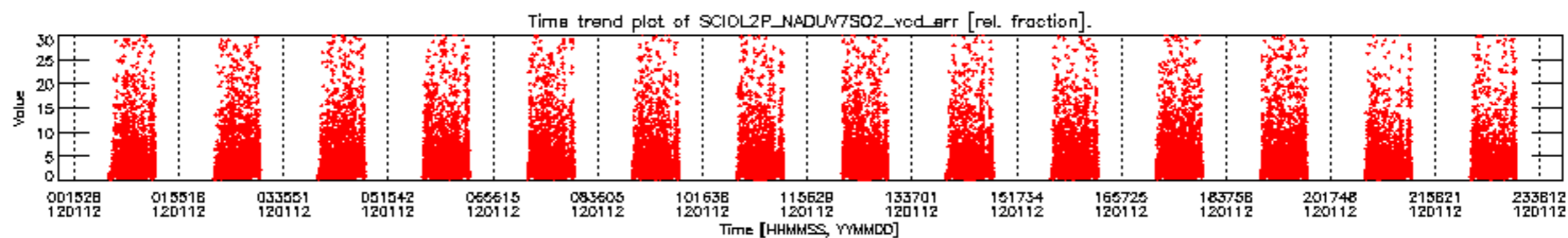
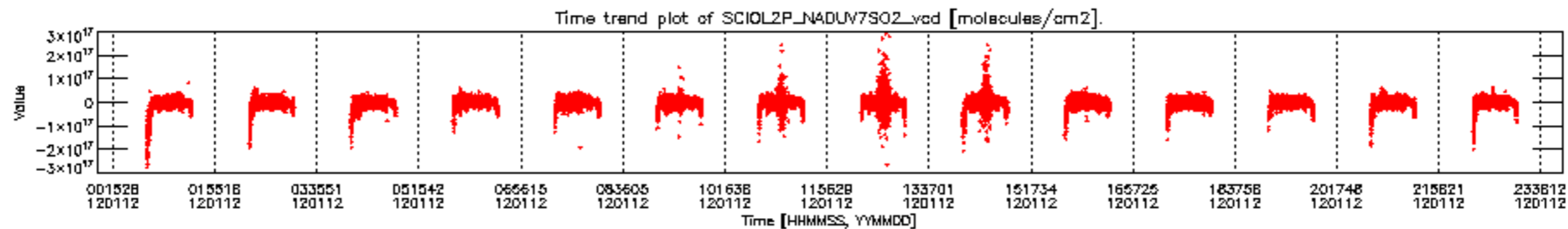


SCIOL2P_NADUV5S02_amf_gr for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

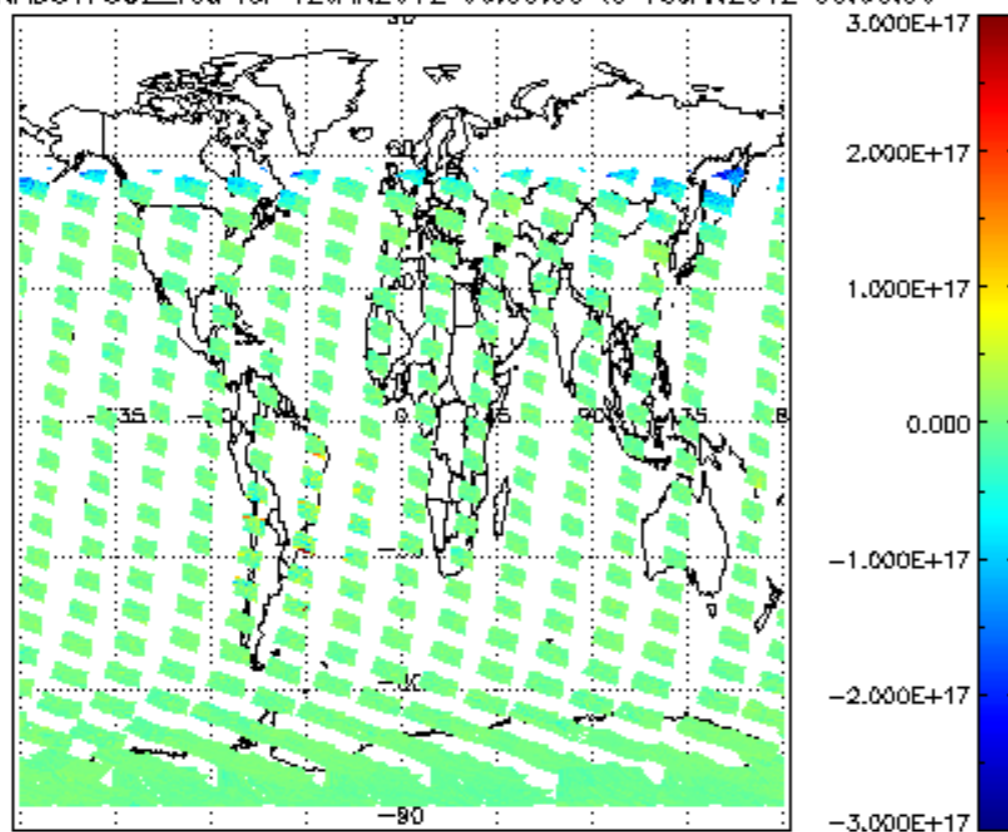


SCIOL2P_NADUV5S02_amf_cl for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

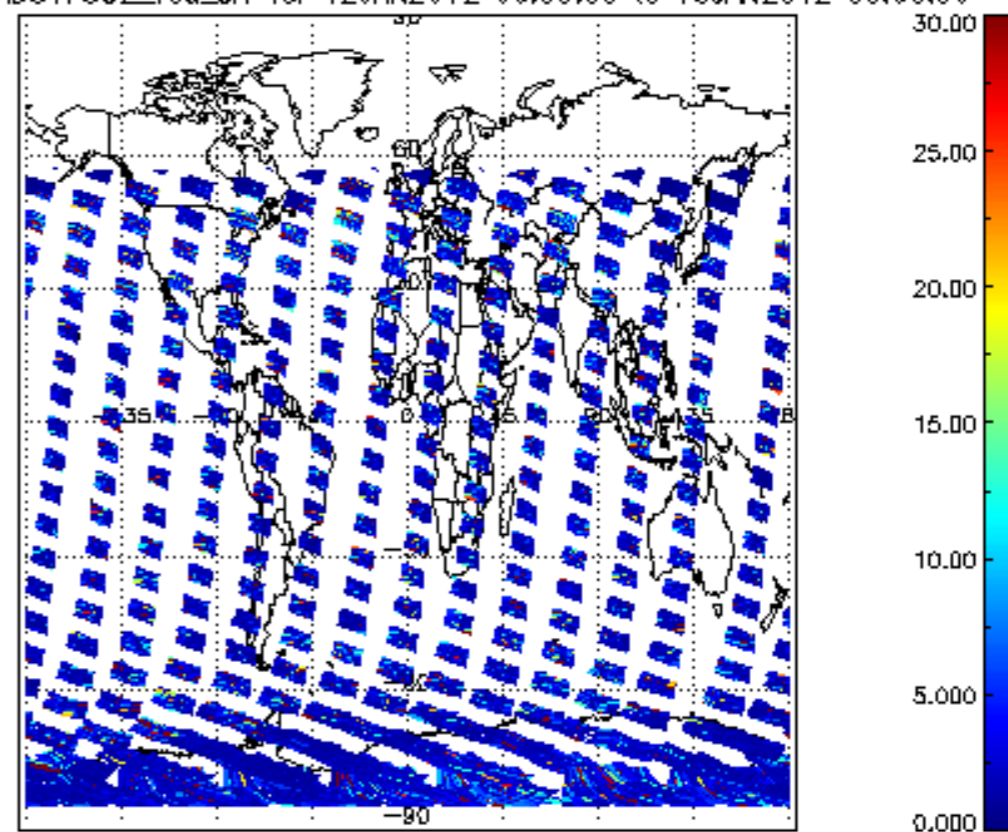




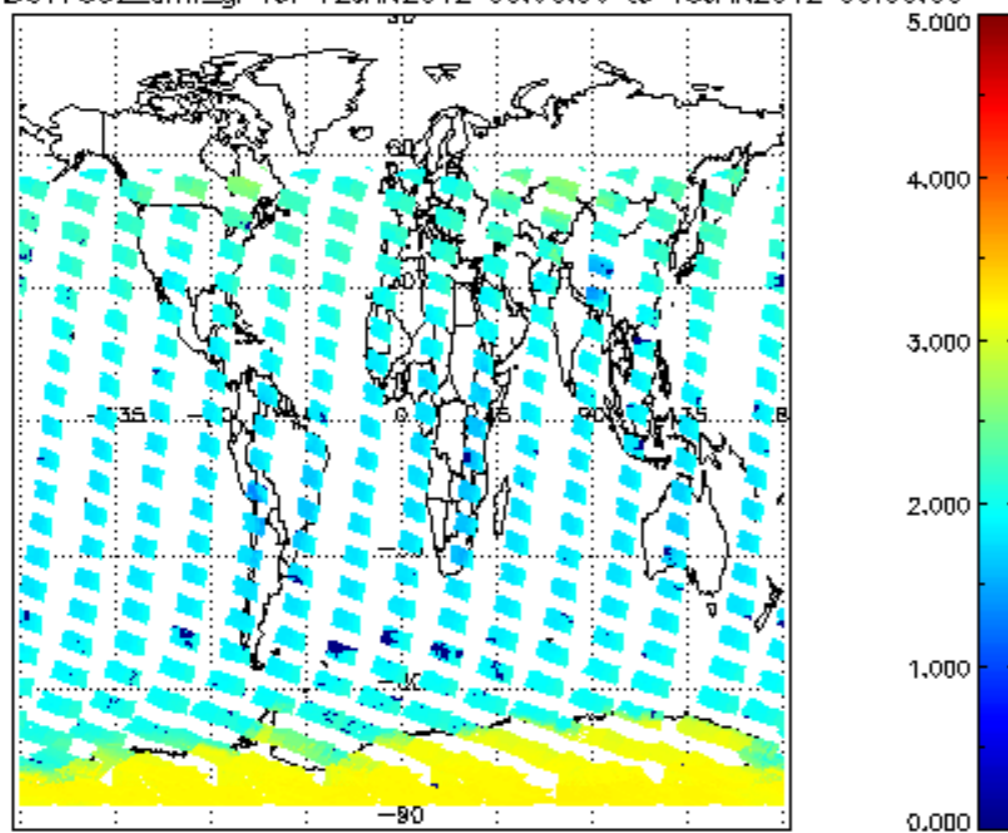
SCIOL2P_NADUV7S02_vcd for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



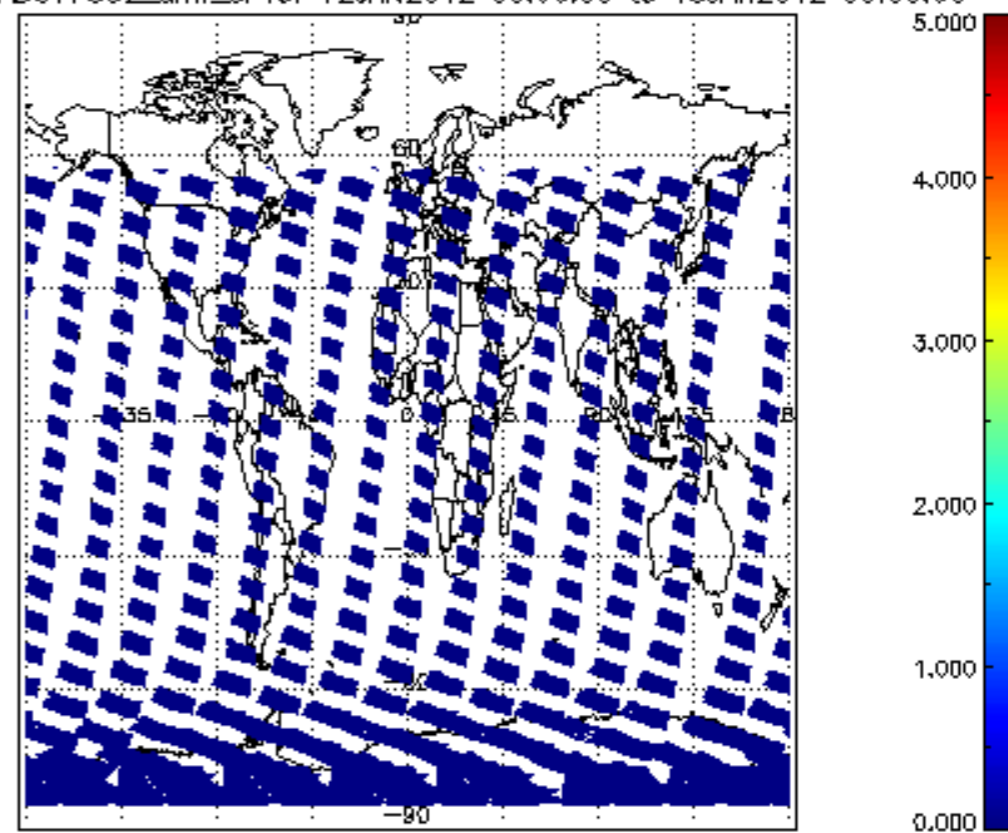
SCIOL2P_NADUV7S02_vcd_err for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

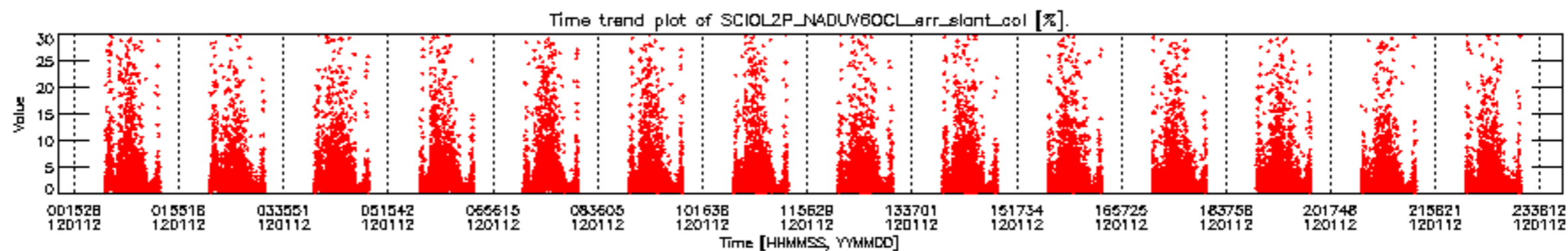
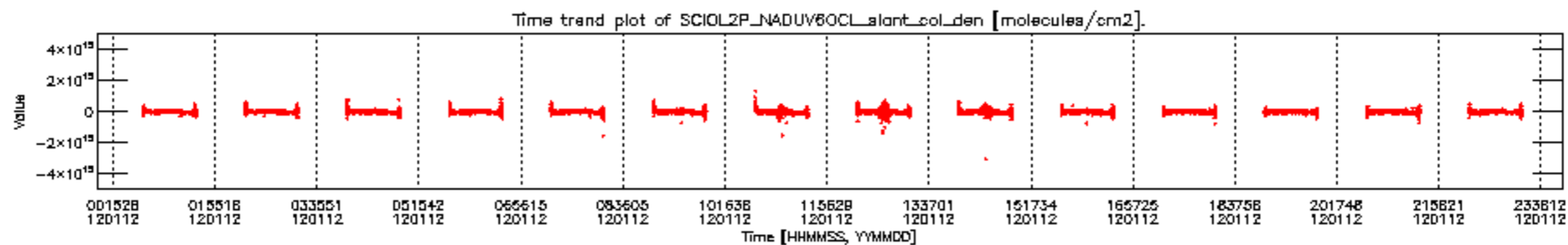


SCIOL2P_NADUV7S02_amf_gr for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

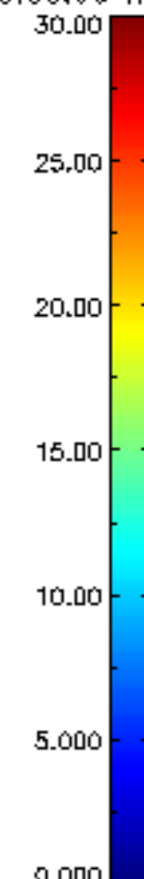
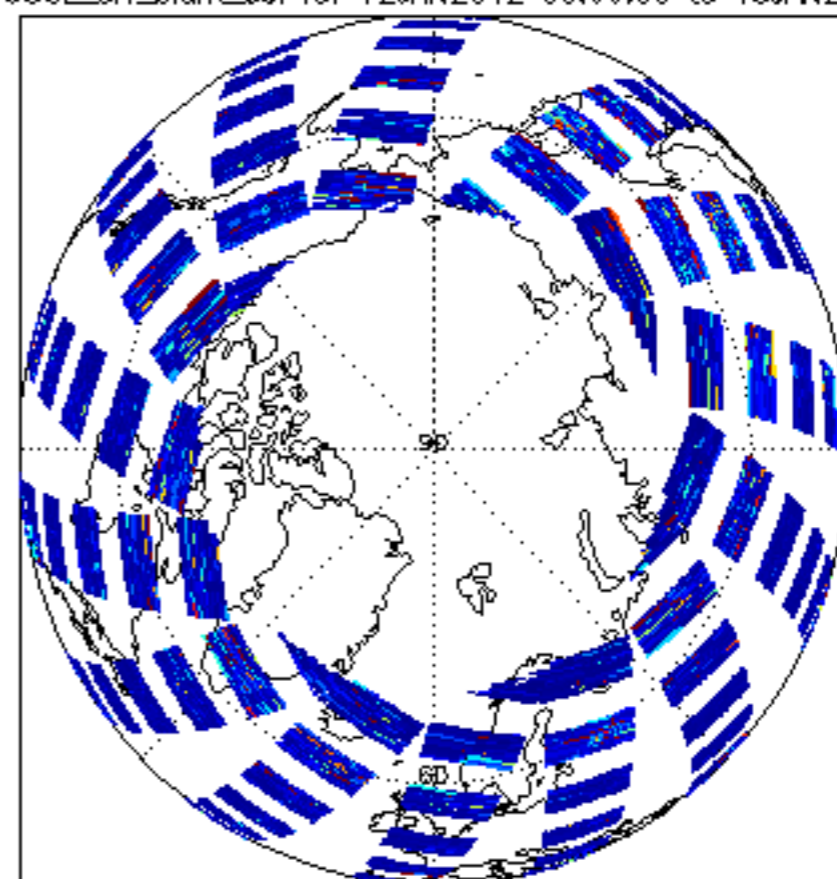
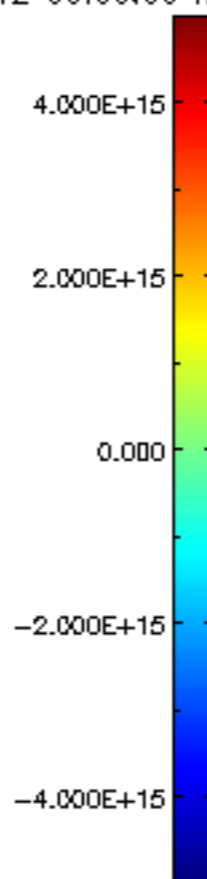
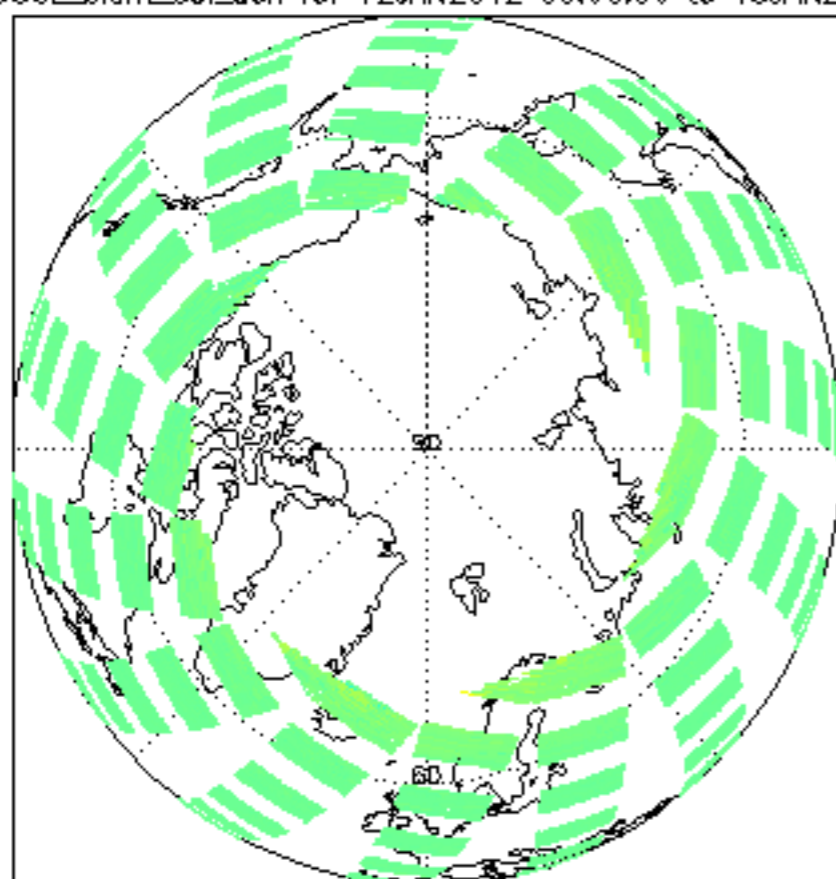


SCIOL2P_NADUV7S02_amf_cl for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

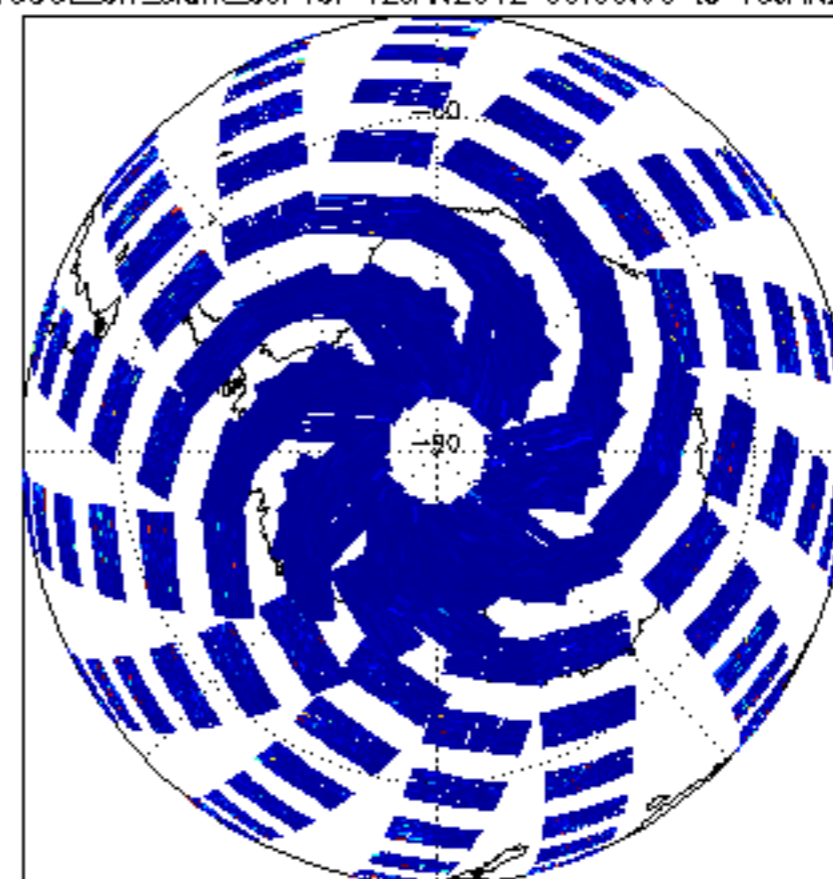
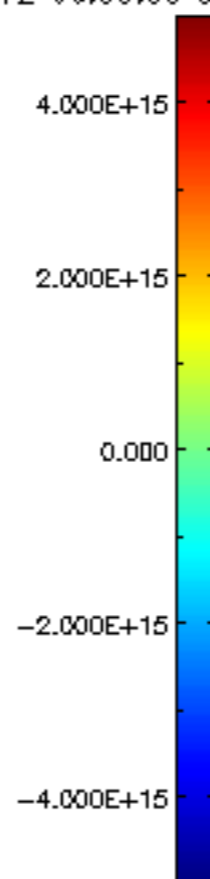
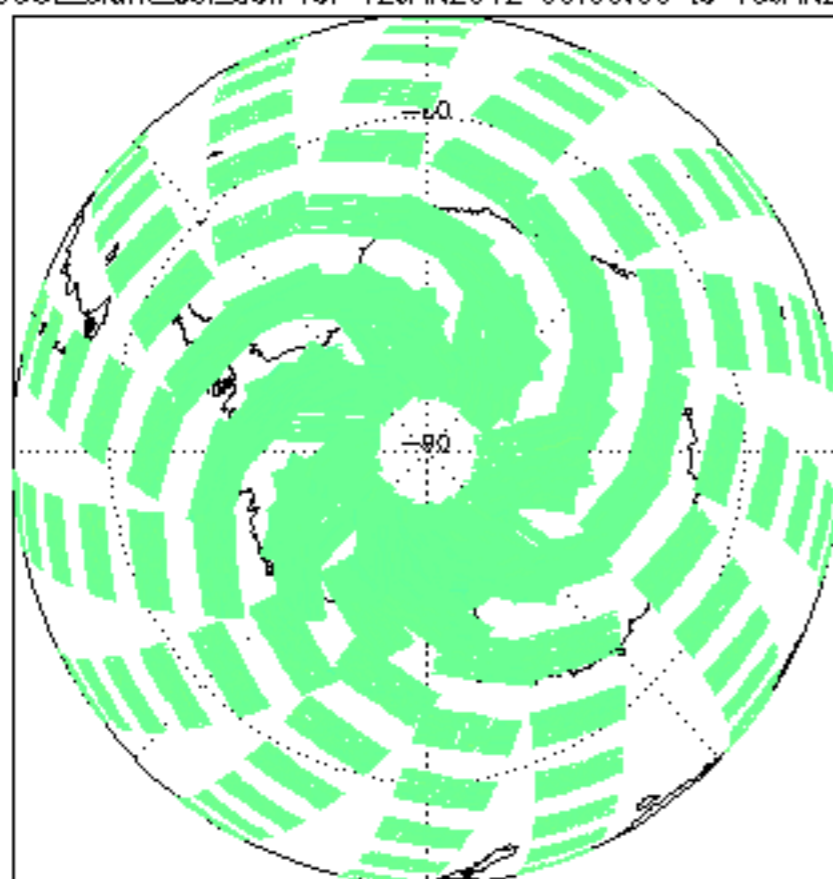




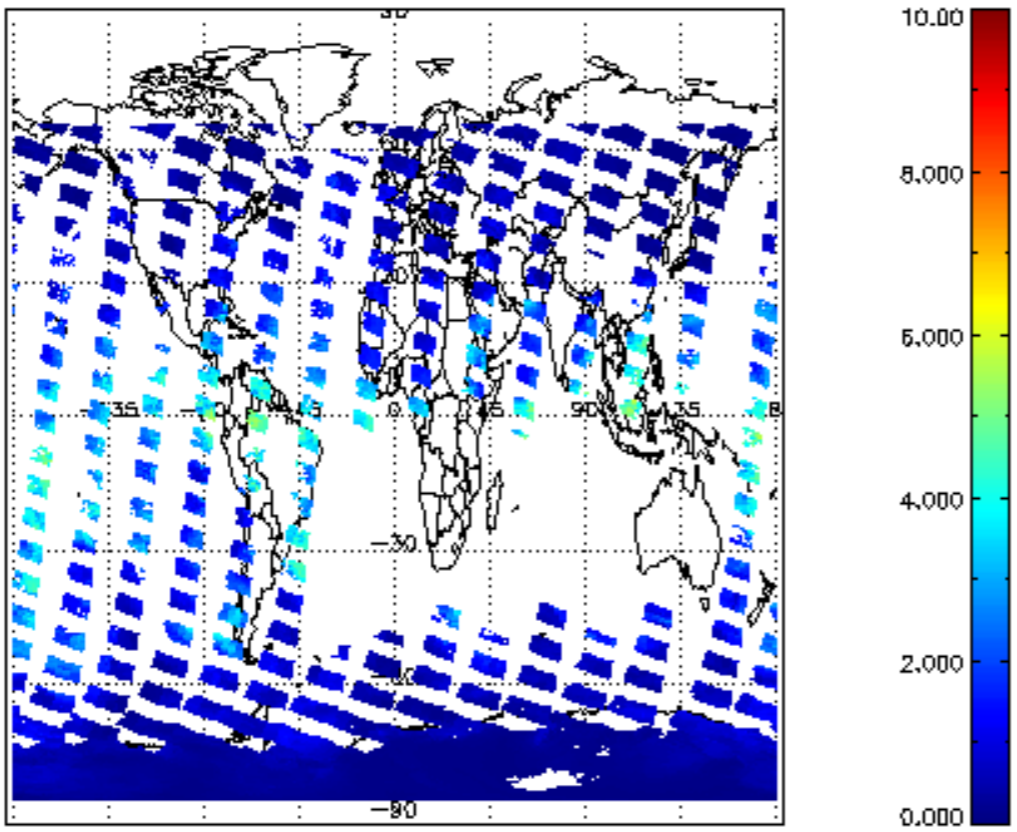
ICIOL2P_NADUV60CL_slant_col_den for 12JAN2012 00:00:00 to 13JAN2012 00:00:00 np;ICIOL2P_NADUV60CL_err_slant_col for 12JAN2012 00:00:00 to 13JAN2012 00:00:00 np



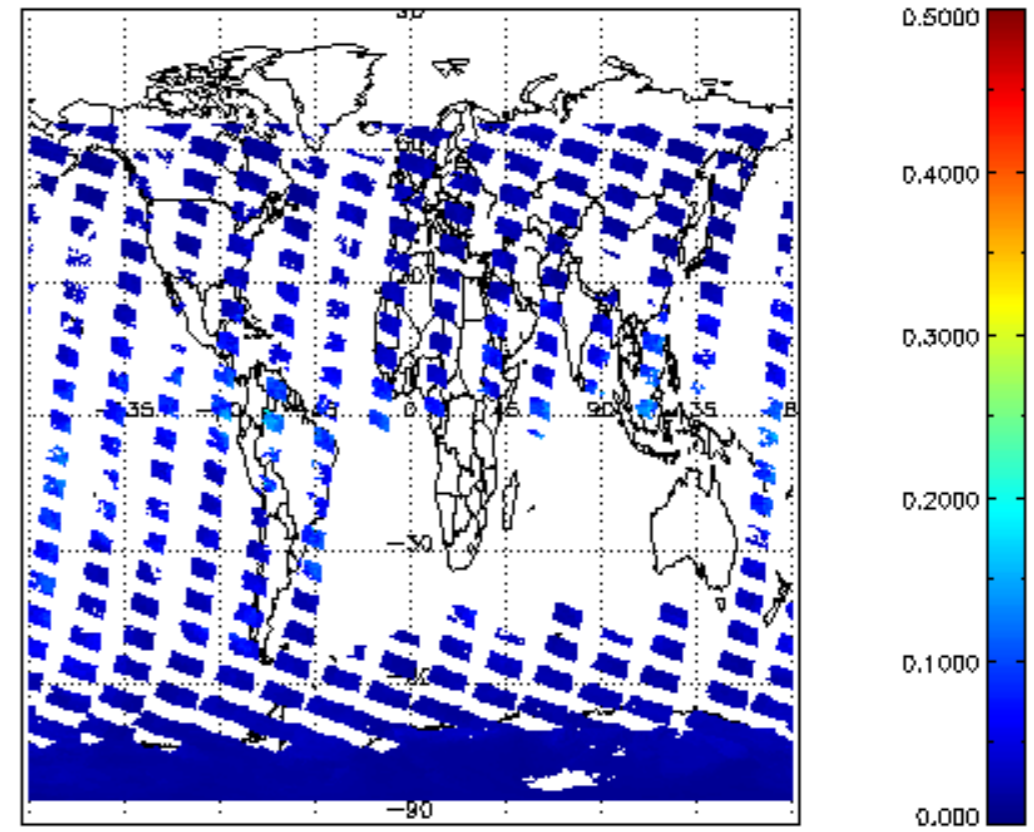
iCIOL2P_NADUV6OCL_slant_col_den for 12JAN2012 00:00:00 to 13JAN2012 00:00:00 sp iCIOL2P_NADUV6OCL_err_slant_col for 12JAN2012 00:00:00 to 13JAN2012 00:00:00 sp



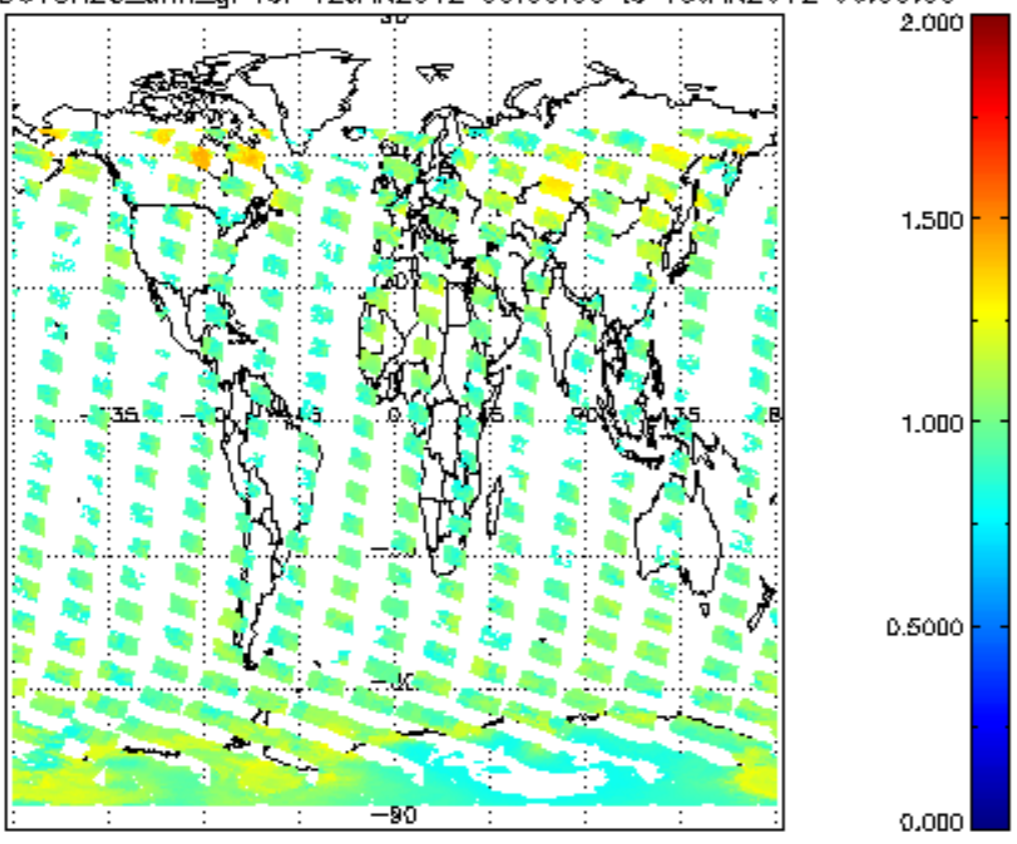
SCIOL2P_NADUV8H20_vcd for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

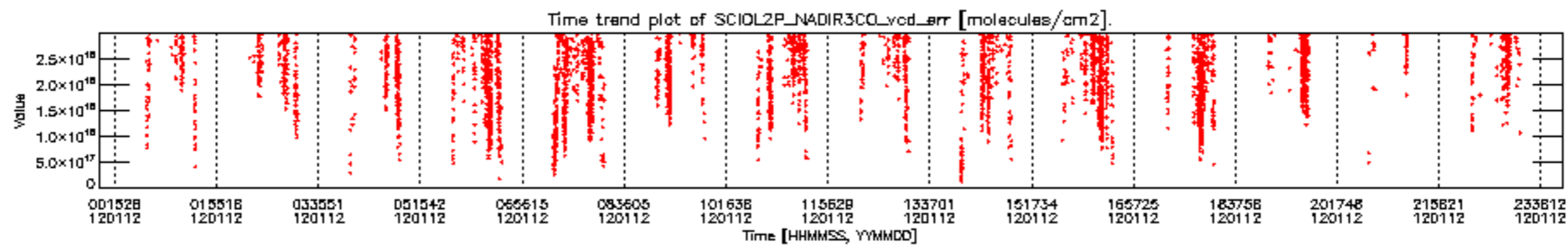
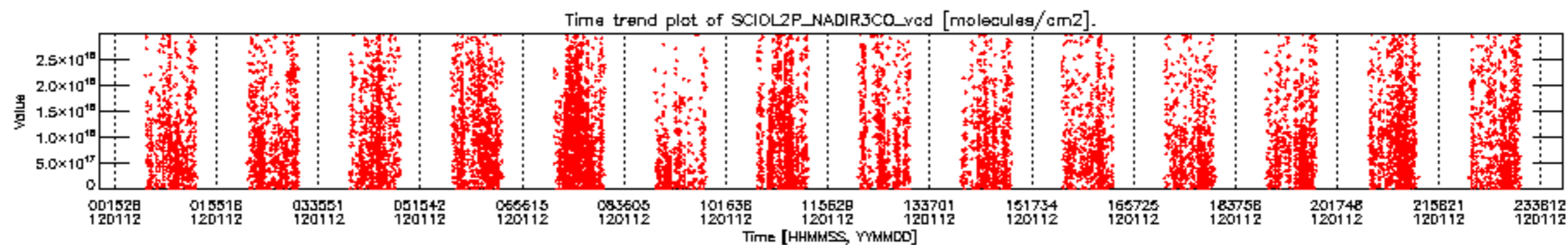


SCIOL2P_NADUV8H20_vcd_err for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

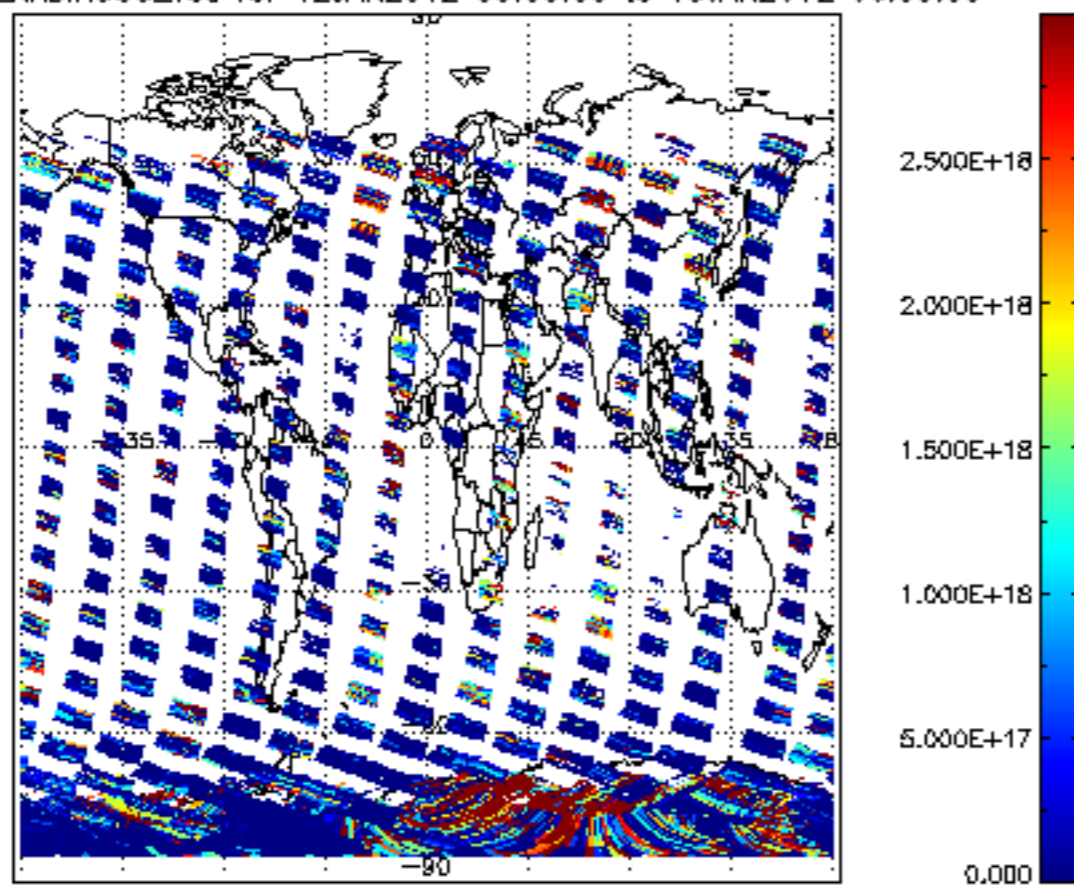


SCIOL2P_NADUV8H20_amf_gr for 12JAN2012 00:00:00 to 13JAN2012 00:00:00

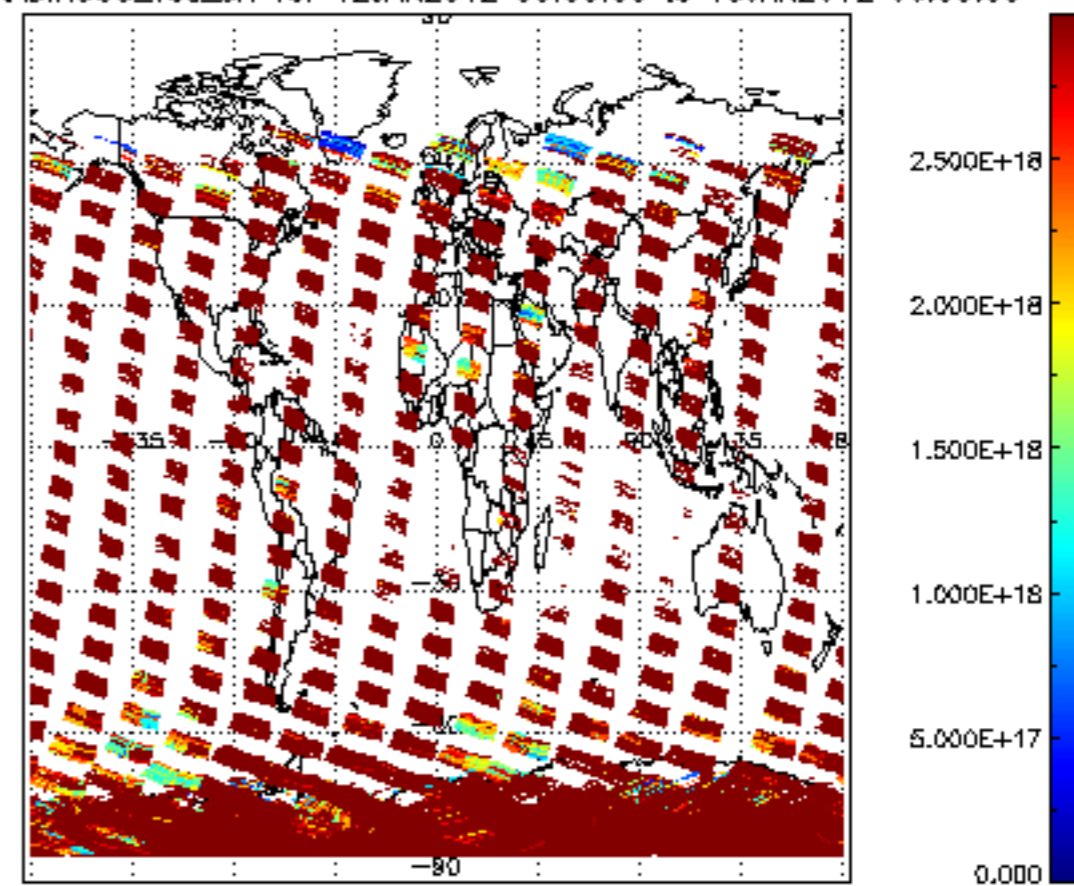




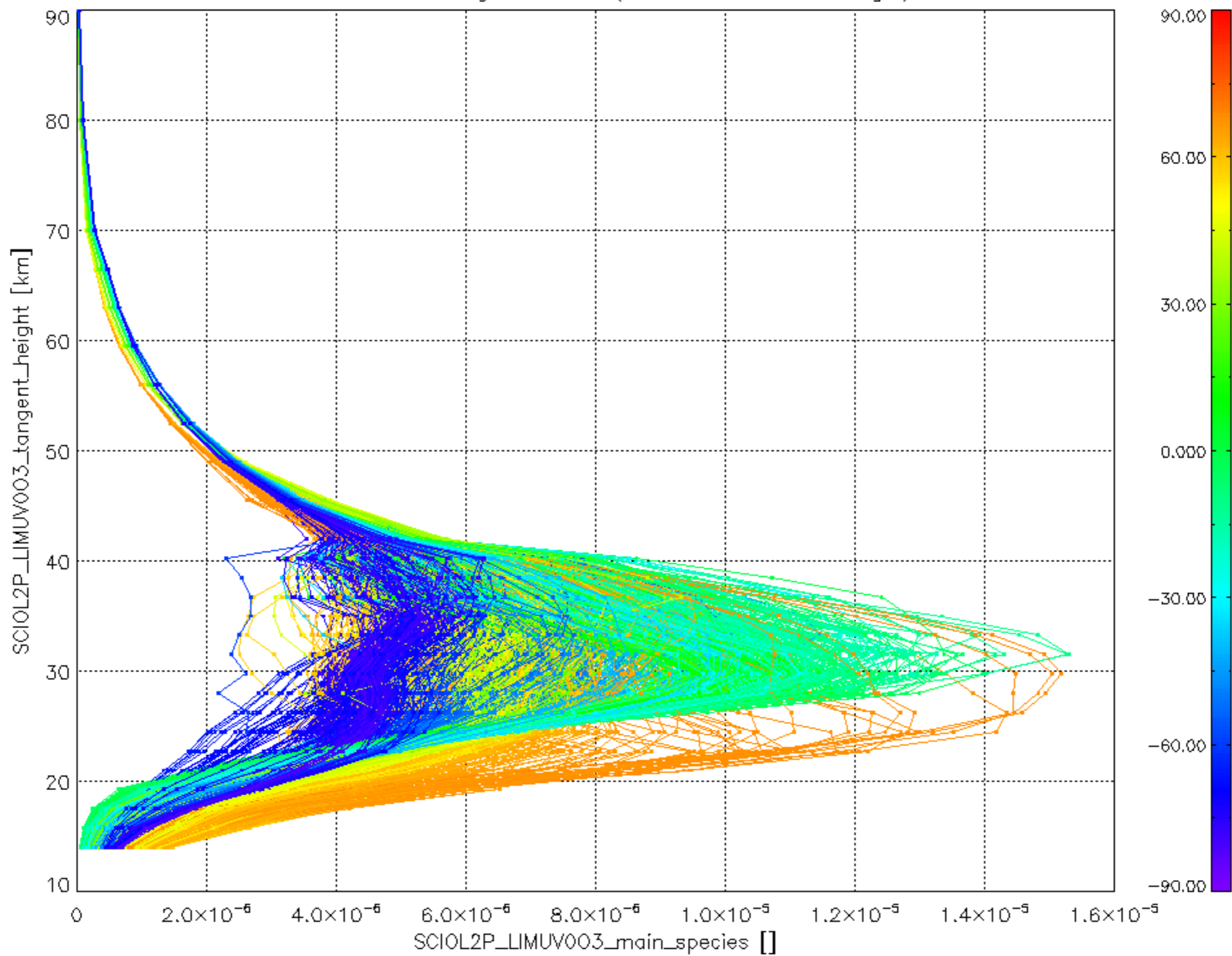
SCIOL2P_NADIR3CO_vcd for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



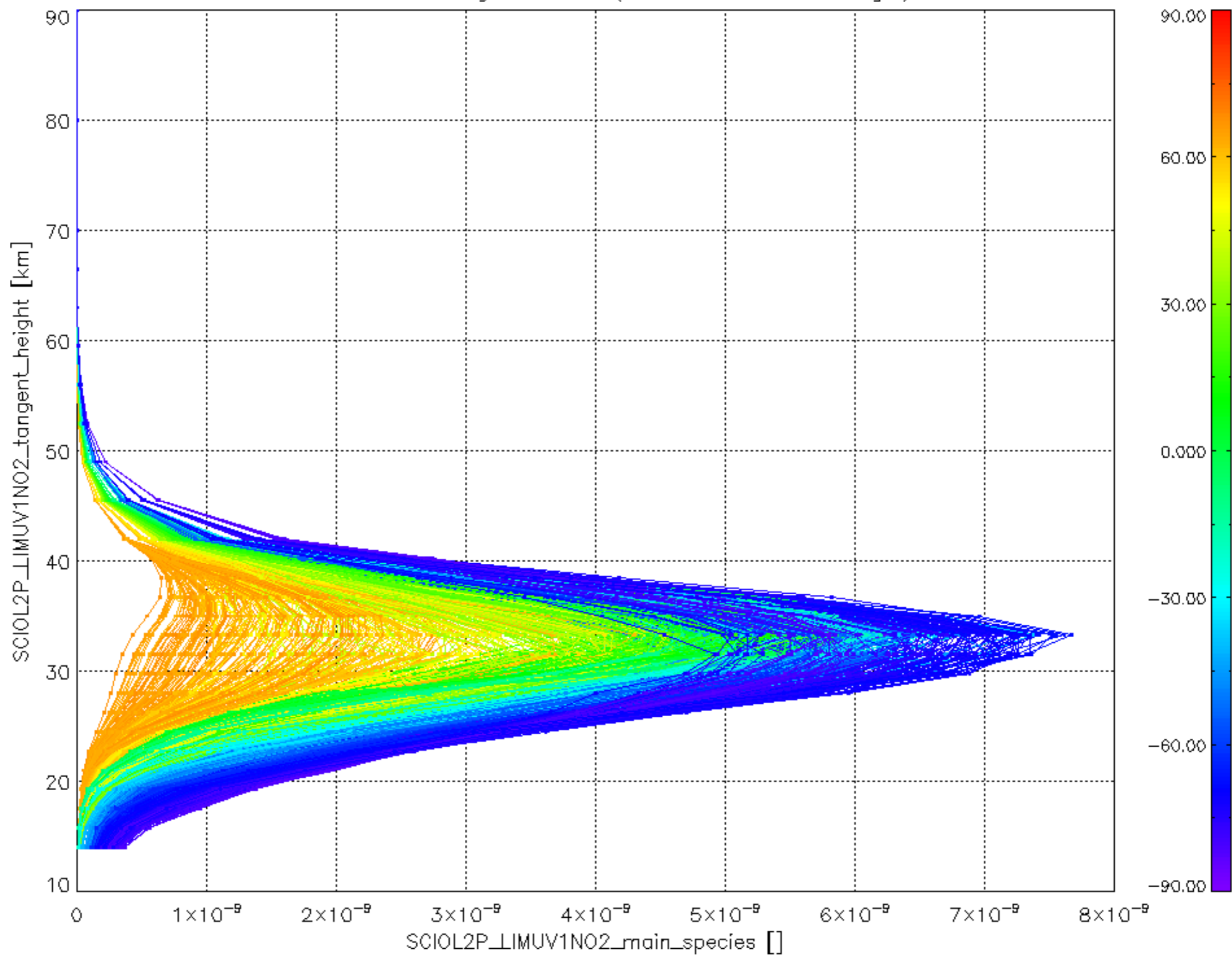
SCIOL2P_NADIR3CO_vcd_err for 12JAN2012 00:00:00 to 13JAN2012 00:00:00



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).

