

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	20JAN2012 03:21:35
Data source version	SCIA-OL/5.02-W
Processing scope for products	07JAN2012 00:00:00 to 08JAN2012 00:00:00
Start time of first product within scope	07JAN2012 00:21:59
Stop time of last product within scope	08JAN2012 00:43:47
Total number of level 2 products	11
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__2PWDP A20120107_002159_000035463110_00232_51539_3036.N1	07JAN2012 00:21:59	07JAN2012 01:21:05	0	GOOD
1	SCI_OL__2PWDP A20120107_020212_000035443110_00233_51540_3034.N1	07JAN2012 02:02:12	07JAN2012 03:01:17	0	GOOD
2	SCI_OL__2PWDP A20120107_034226_000035423110_00234_51541_3035.N1	07JAN2012 03:42:26	07JAN2012 04:41:28	0	GOOD
3	SCI_OL__2PWDP A20120107_084307_000001043110_00237_51544_3037.N1	07JAN2012 08:43:07	07JAN2012 08:44:52	0	GOOD
4	SCI_OL__2PWDP A20120107_102321_000035313110_00238_51545_3038.N1	07JAN2012 10:23:21	07JAN2012 11:22:12	0	GOOD

5	SCI_OL__2PWDP A20120107_120335_000035283110_00239_51546_3039.N1	07JAN2012 12:03:35	07JAN2012 13:02:23	0	GOOD
6	SCI_OL__2PWDP A20120107_134348_000035163110_00240_51547_3040.N1	07JAN2012 13:43:48	07JAN2012 14:42:24	0	GOOD
7	SCI_OL__2PWDP A20120107_152402_000035303110_00241_51548_3041.N1	07JAN2012 15:24:02	07JAN2012 16:22:53	0	GOOD
8	SCI_OL__2PWDP A20120107_184531_000034743110_00243_51550_3042.N1	07JAN2012 18:45:31	07JAN2012 19:43:25	0	GOOD
9	SCI_OL__2PWDP A20120107_220457_000035303110_00245_51552_3043.N1	07JAN2012 22:04:57	07JAN2012 23:03:48	0	GOOD
10	SCI_OL__2PWDP A20120107_234511_000035163110_00246_51553_3044.N1	07JAN2012 23:45:11	08JAN2012 00:43:47	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: 89647

Total number of cloud data DSRs with good quality flag (=0): 89647 (100.0 %)

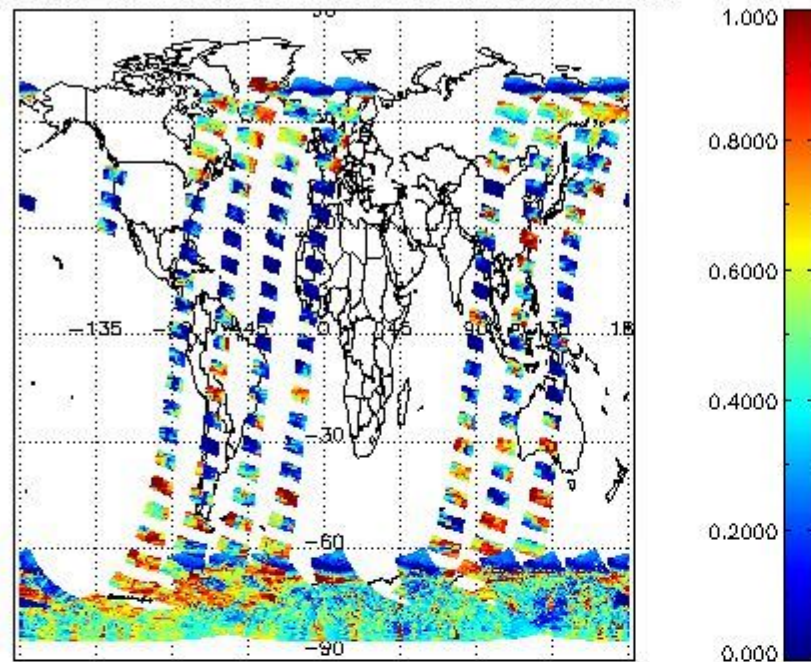
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	89647	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	89647	0.16452	0.12500	0.12500	0.25000	0.058121	s
CL_FRAC	89647	0.41103	0.39336	0.0000	1.0000	0.29291	
CL_FRAC_ERR	89647	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	89647	5.2645	4.0000	4.0000	8.0000	1.8599	
PMD_READ_CL[0]	89647	0.47949	0.0000	0.0000	8.0000	1.4078	-
PMD_READ_CL[1]	89647	0.98590	0.0000	0.0000	8.0000	2.1553	-
CL_TOP_HEIGHT	71843	3.8360	3.0640	0.0000	17.000	3.5084	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	71843	54.323	44.751	0.0000	101.00	41.619	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	89647	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	89647	11001100	11000100	11000000	11100000	3466.3	
AERO_ABSO_IND	89647	0.071892	0.0000	0.0000	9.5658	0.26558	
AERO_IND_DIAG	89647	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	89647	01010010	00000000	00000000	11000000	24326.	

Time and geolocation plots:

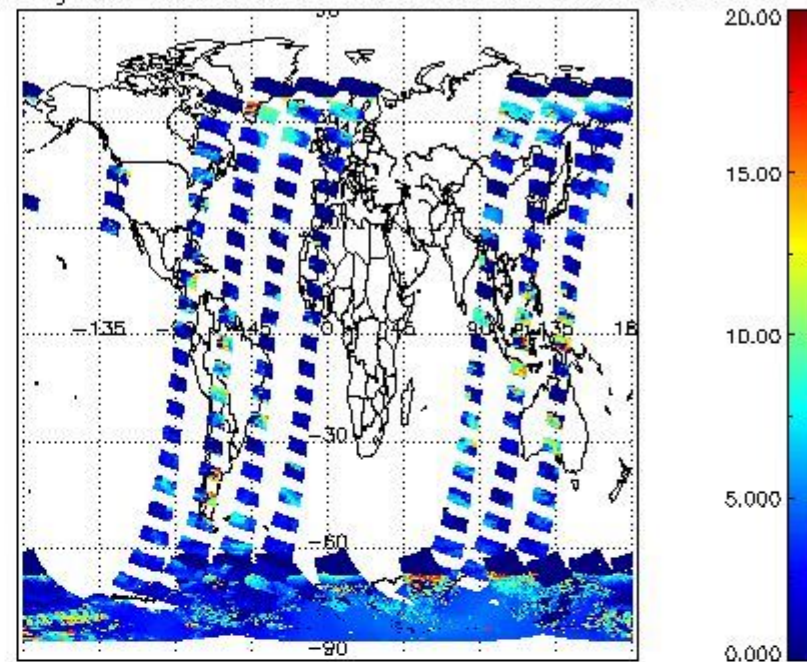
Plots are available for the following parameters:

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

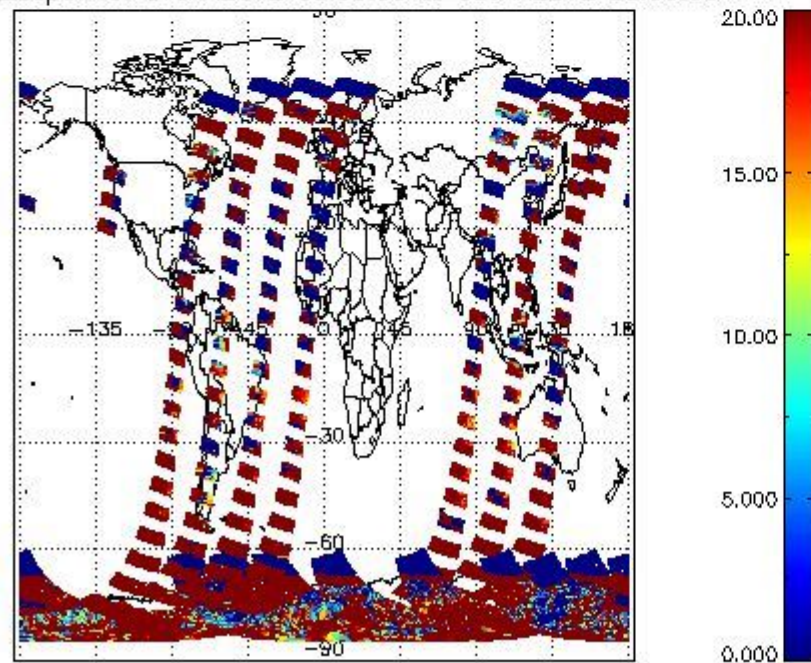
cL_frac for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



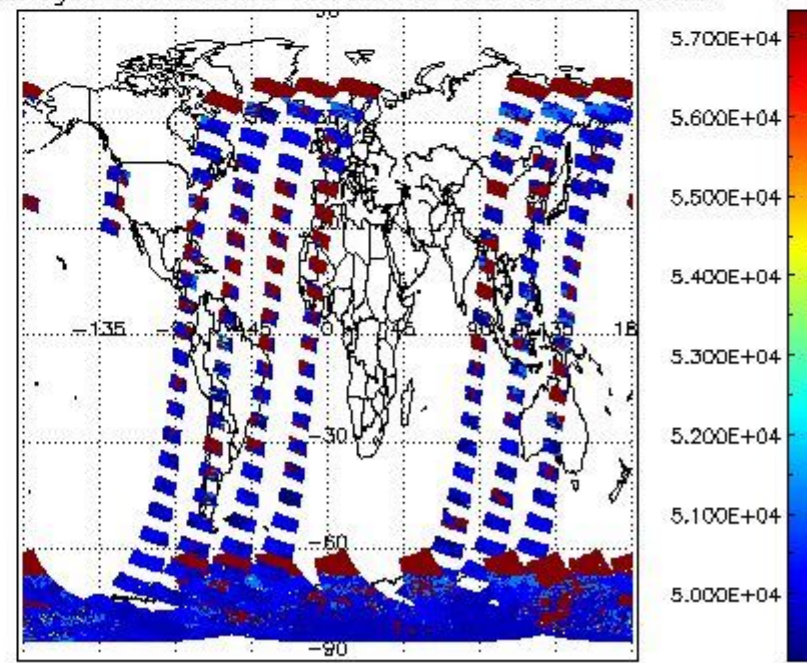
cL_top_height for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



cLopt_depth for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



cloud_flags for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



2.2.2 Nadir

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

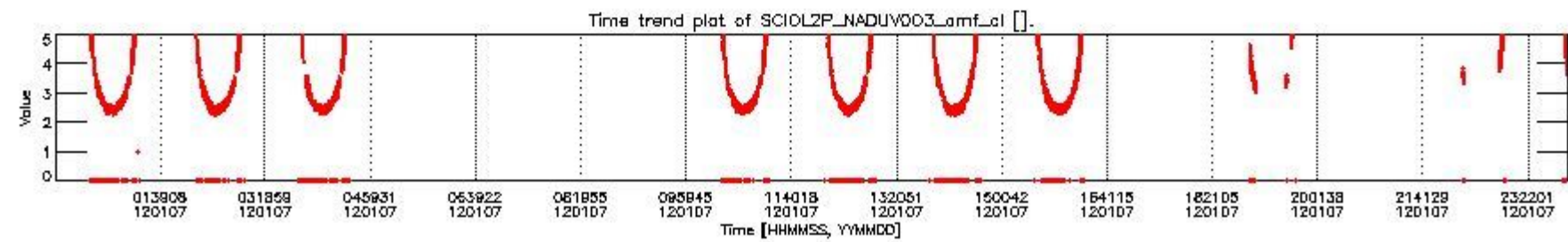
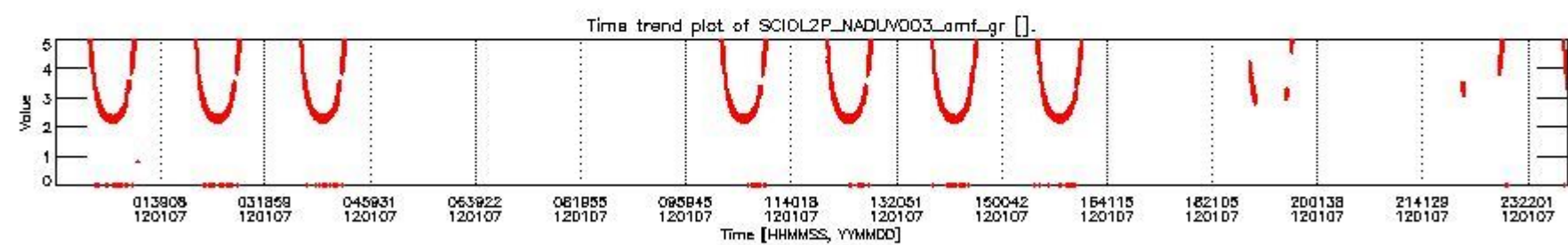
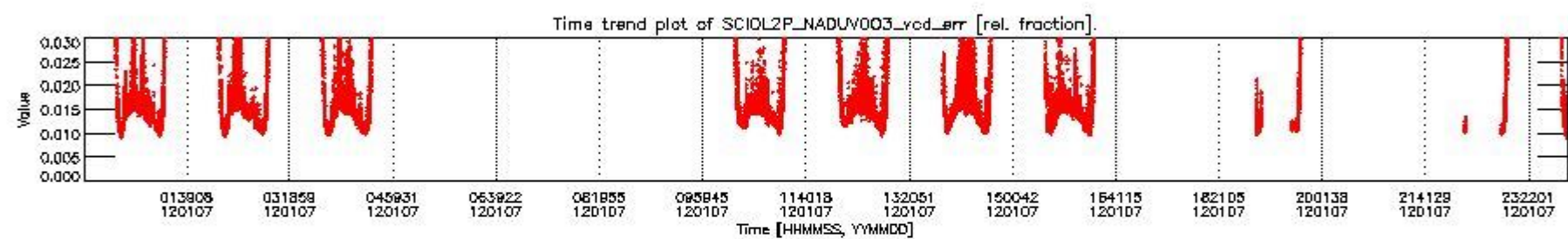
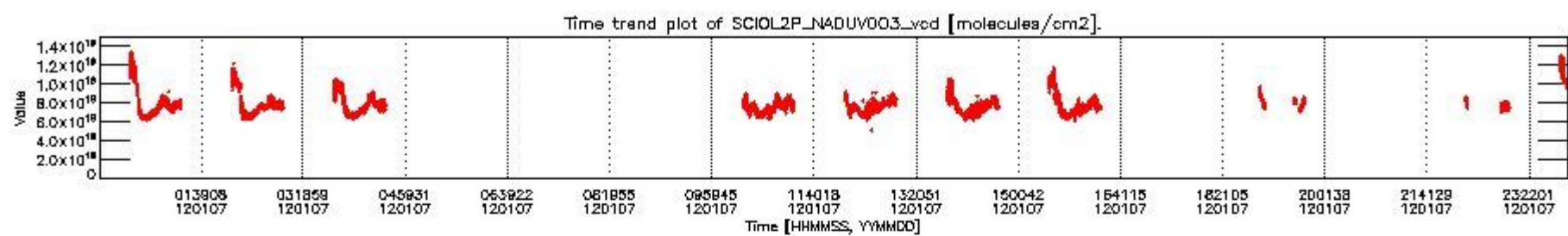
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

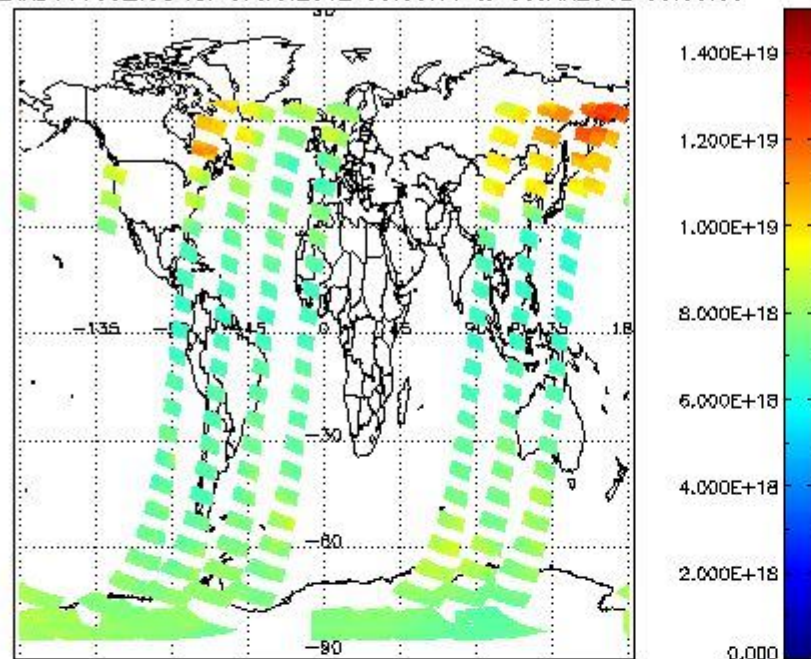
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

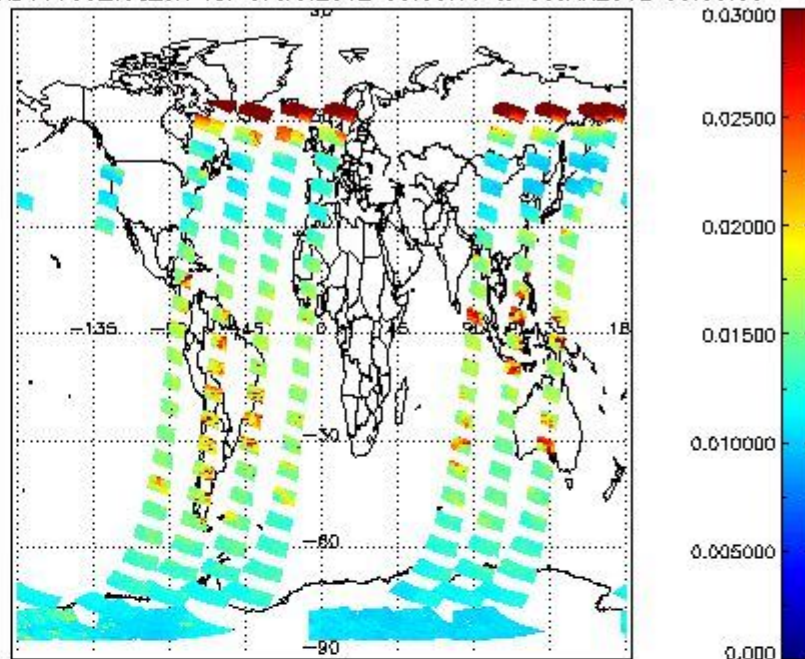
2.2.2.1 O3 (UV0)



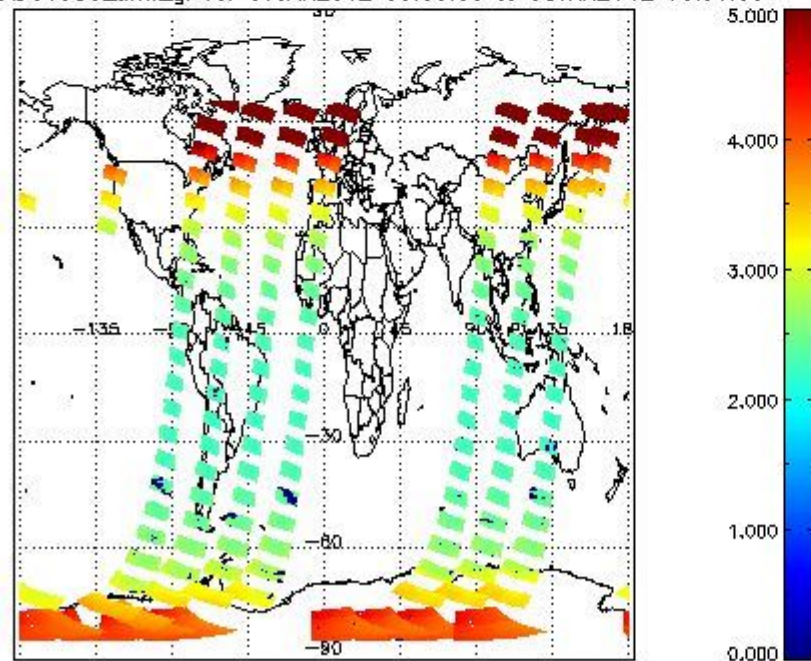
SCIOL2P_NADUV003_vcd for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



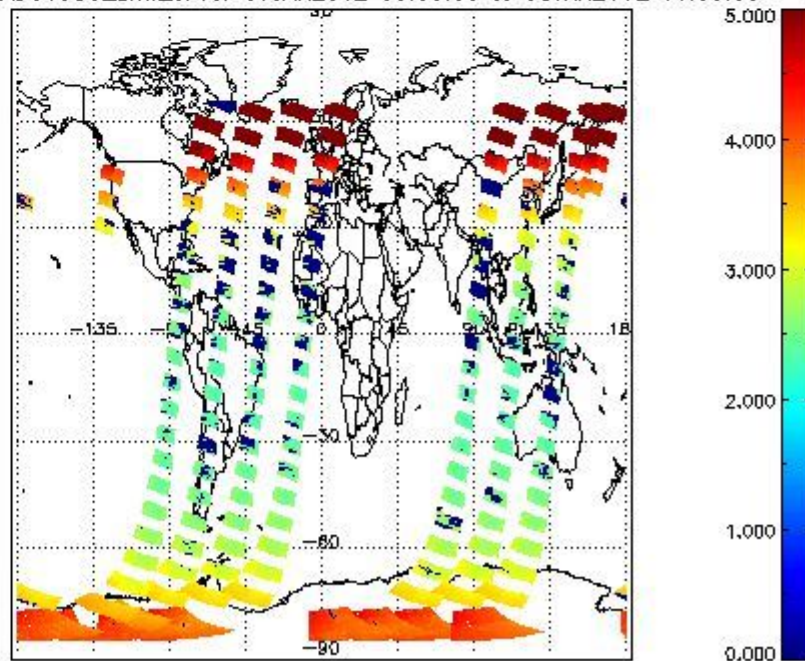
SCIOL2P_NADUV003_vcd_err for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



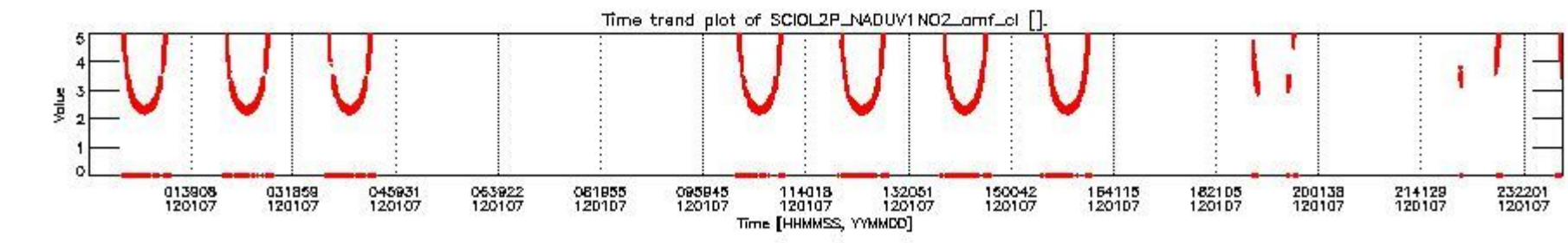
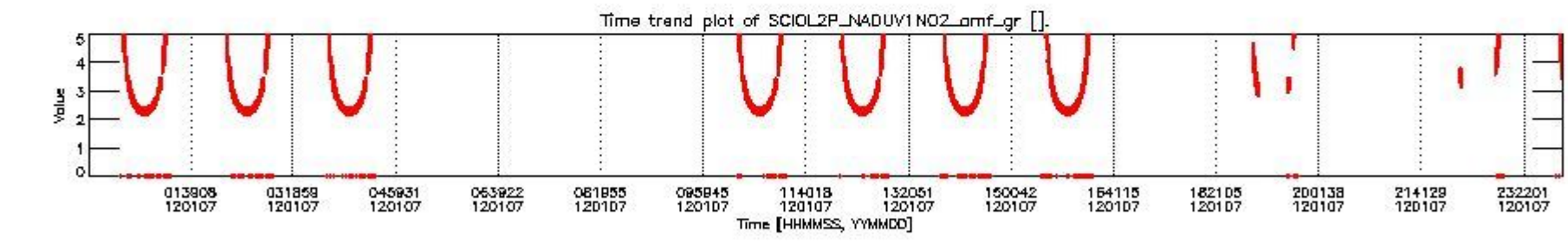
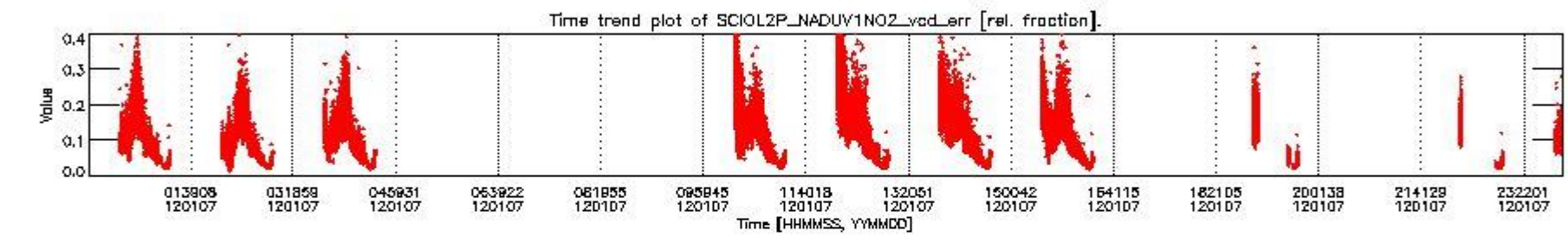
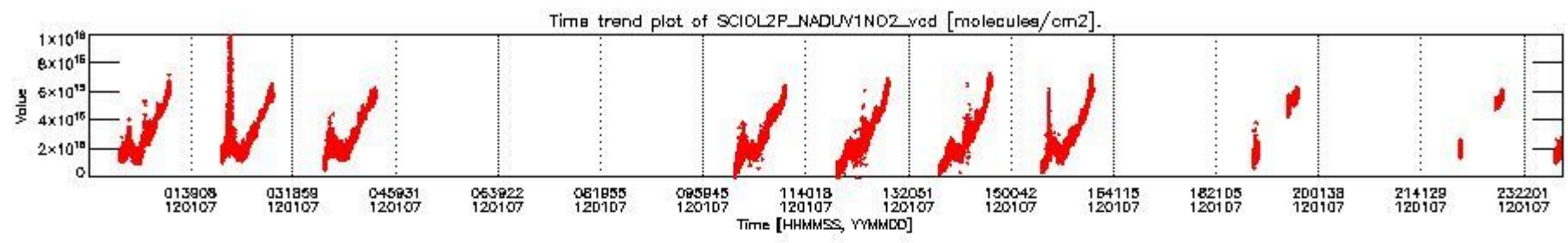
SCIOL2P_NADUV003_amf_gr for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



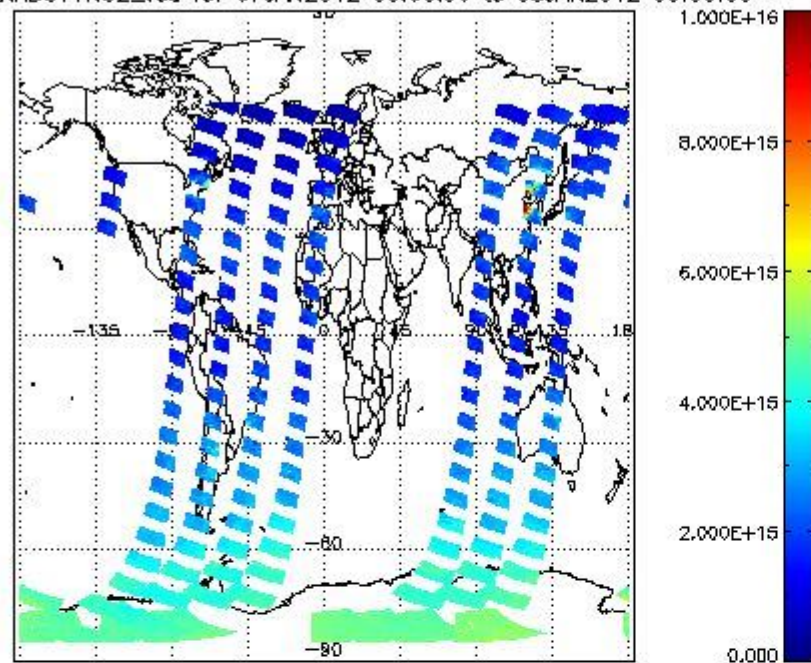
SCIOL2P_NADUV003_amf_cl for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



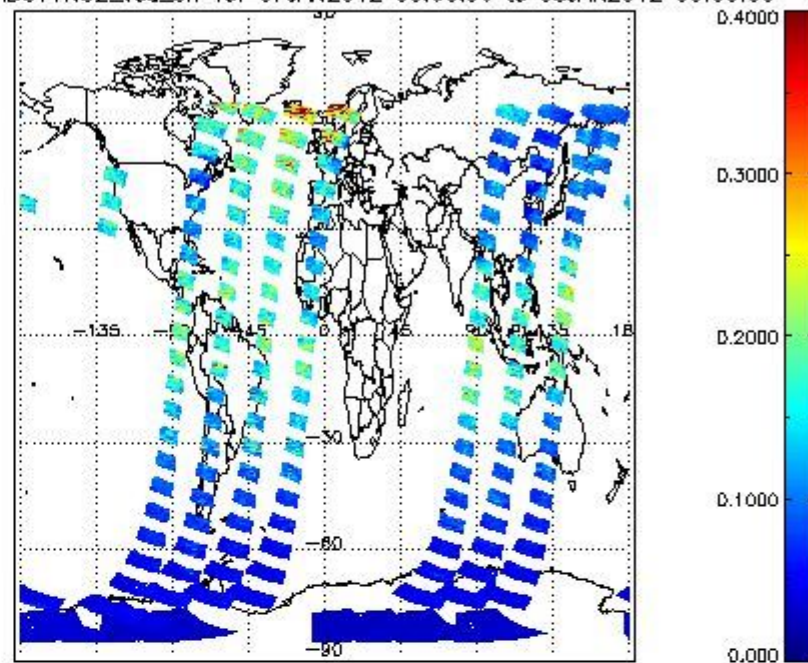
2.2.2.2 NO2 (UV1)



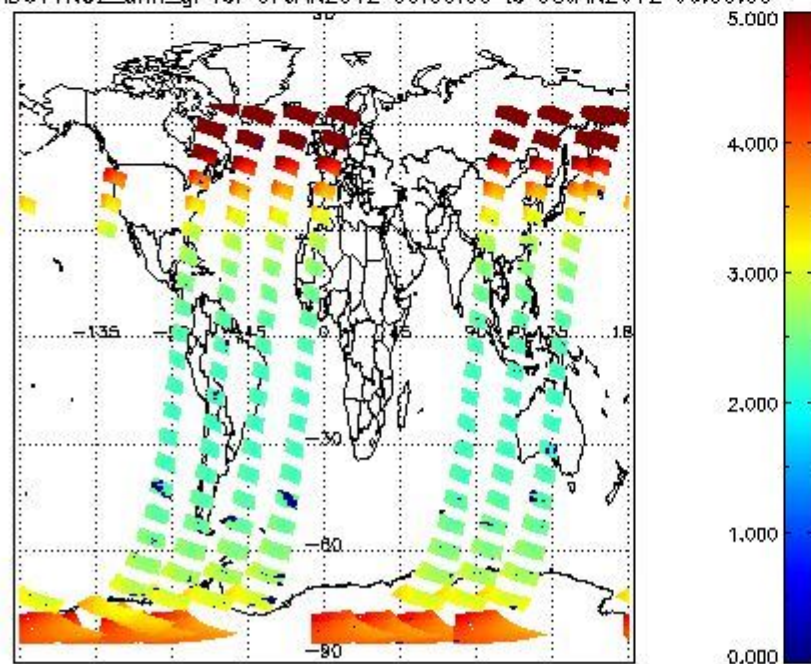
SCIOL2P_NADUV1NO2_vcd for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



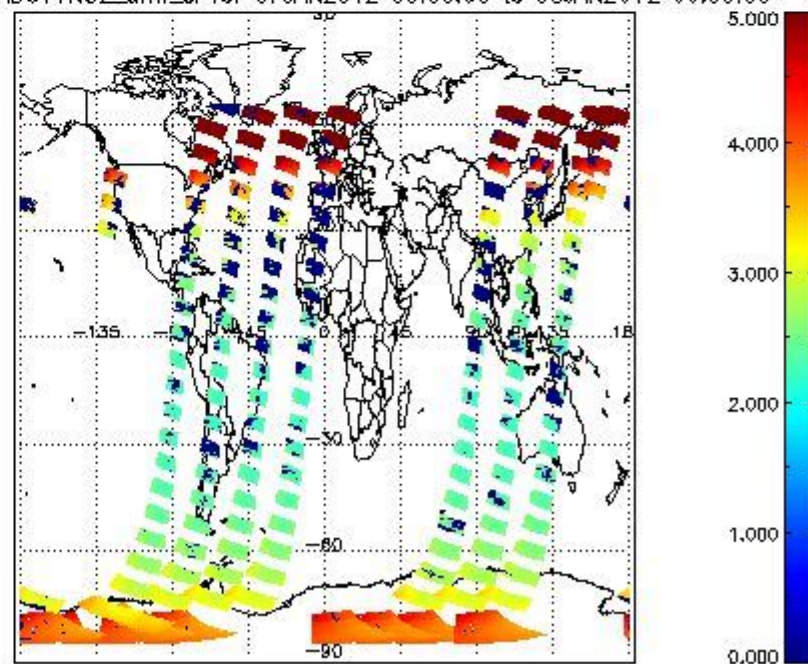
SCIOL2P_NADUV1NO2_vcd_err for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



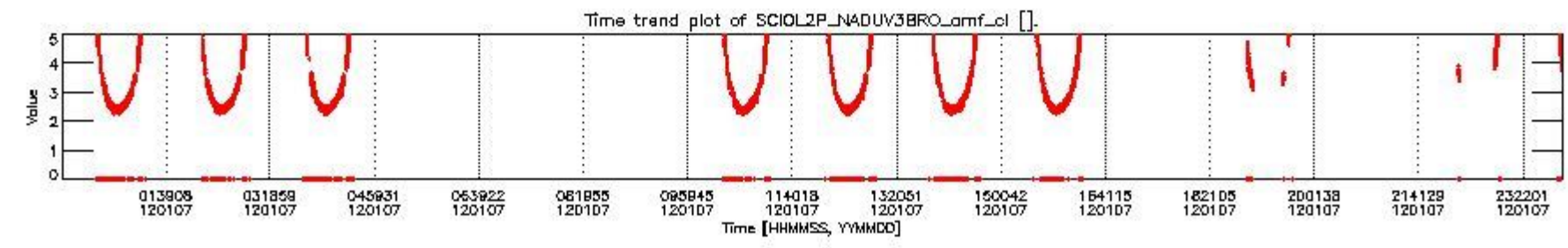
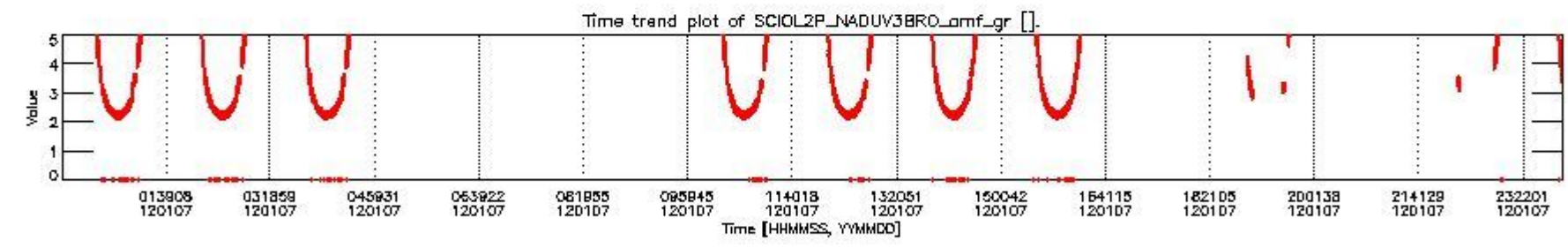
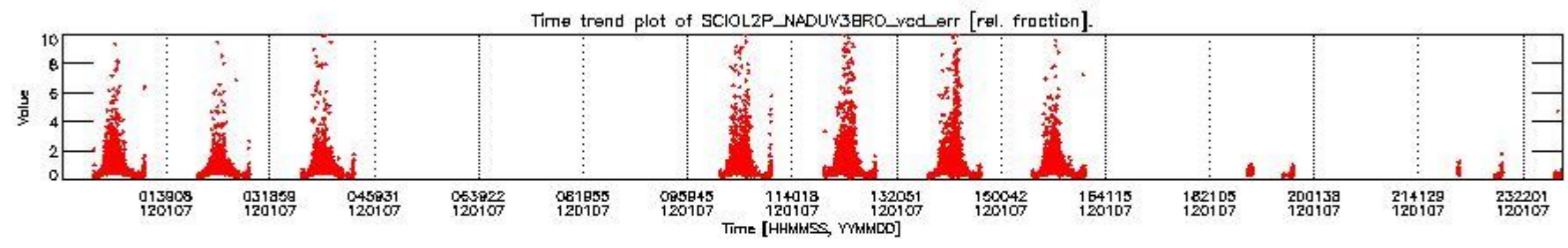
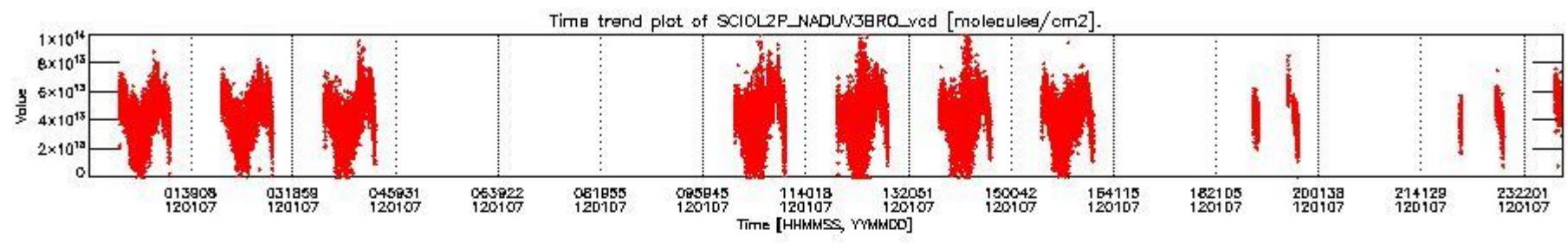
SCIOL2P_NADUV1NO2_amf_gr for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



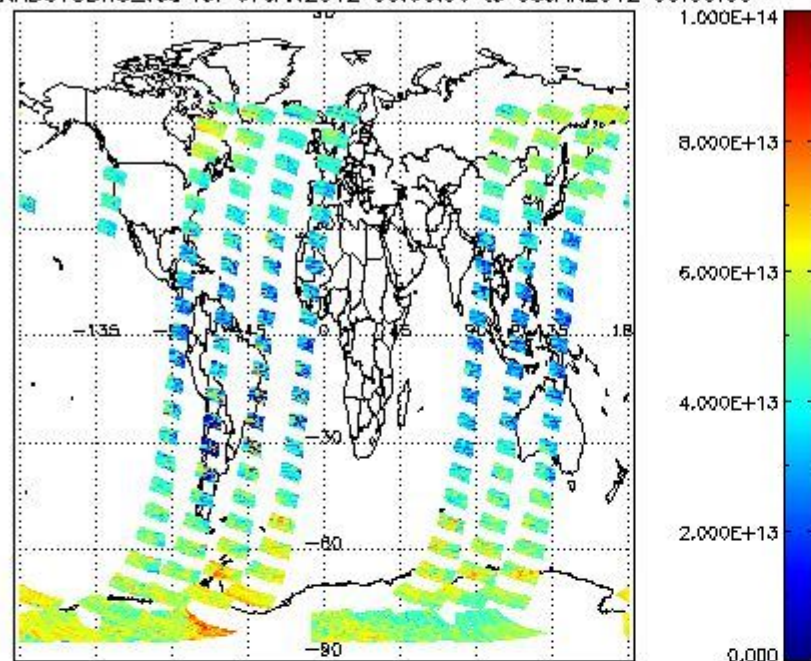
SCIOL2P_NADUV1NO2_amf_cl for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



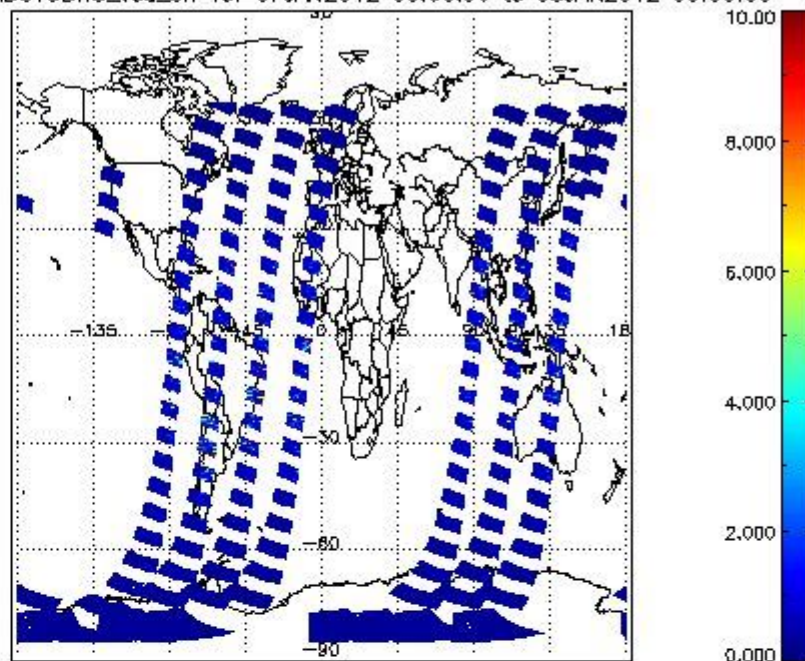
2.2.2.3 BrO (UV3)



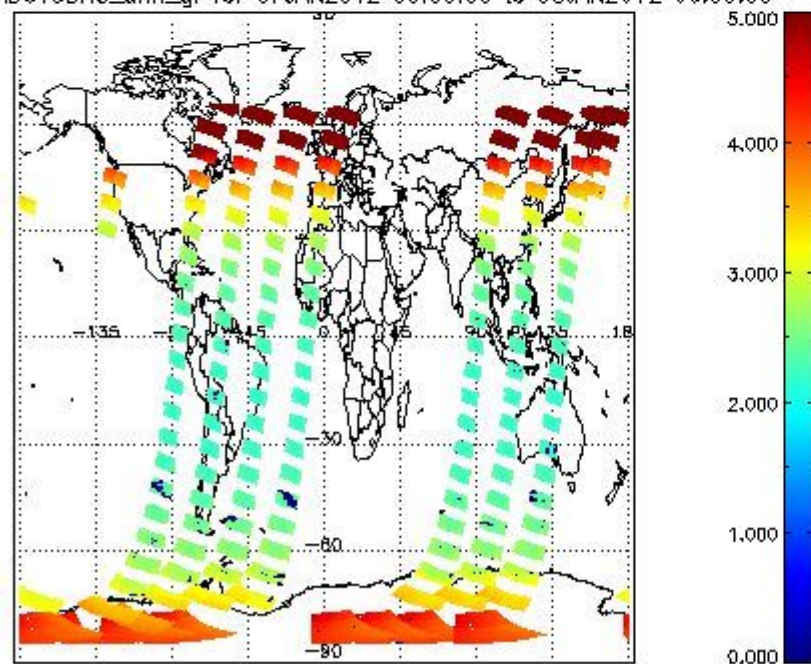
SCIOL2P_NADUV3BRO_vcd for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



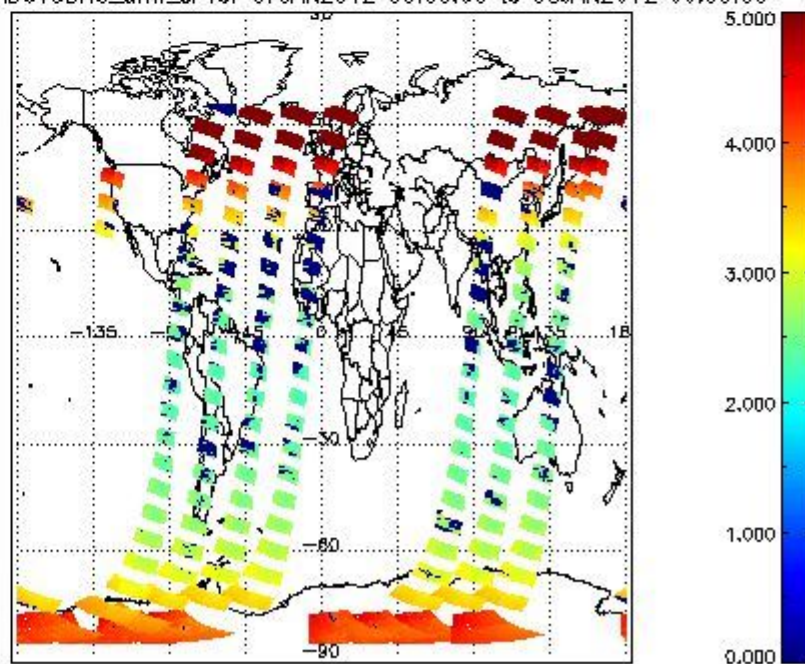
SCIOL2P_NADUV3BRO_vcd_err for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



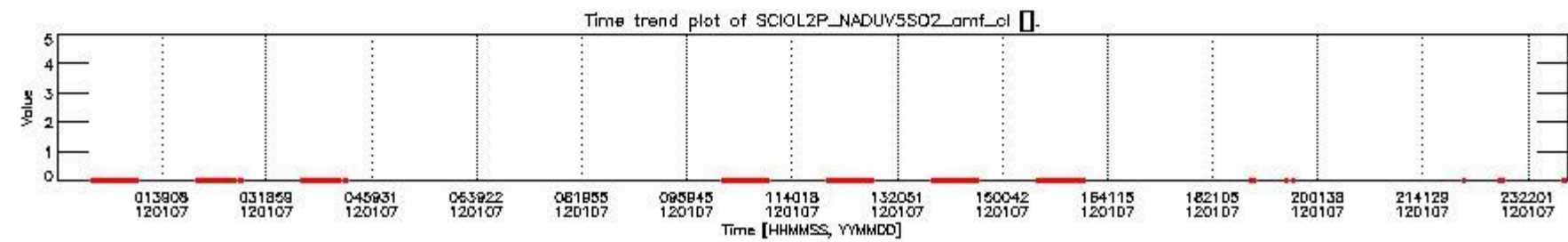
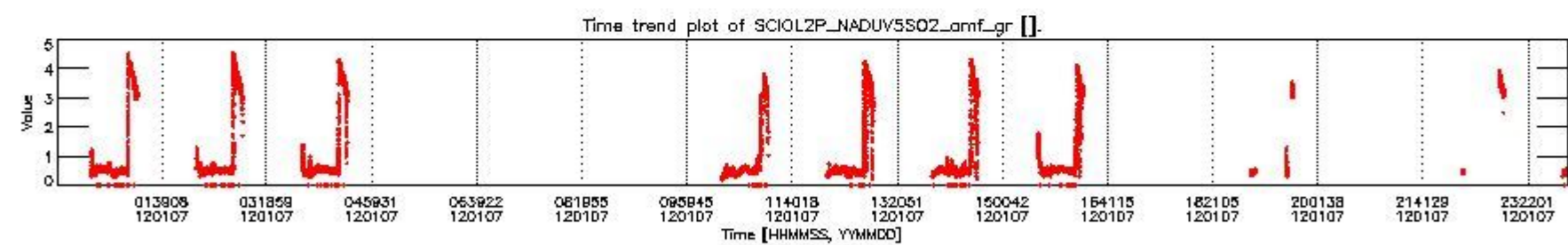
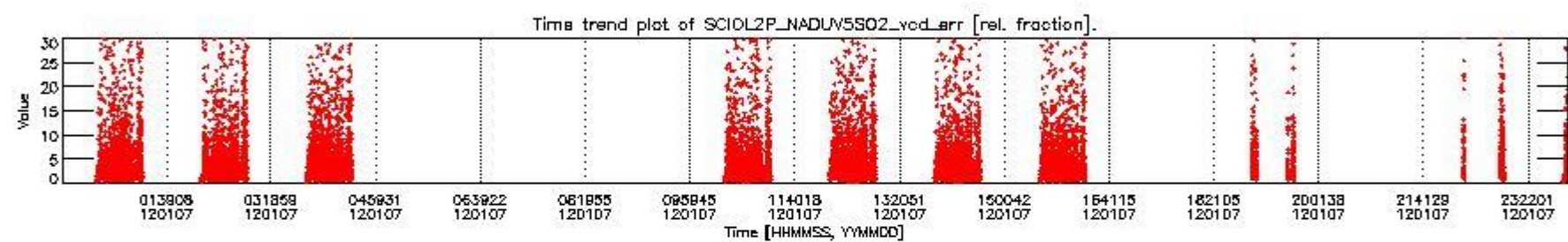
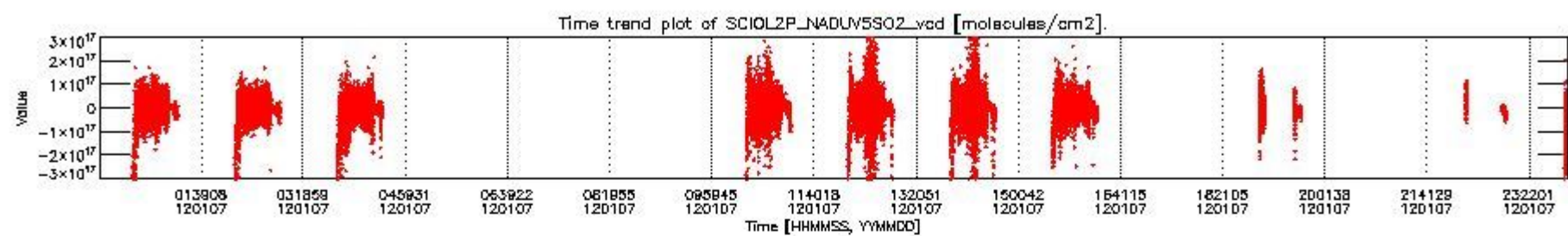
SCIOL2P_NADUV3BRO_amf_gr for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



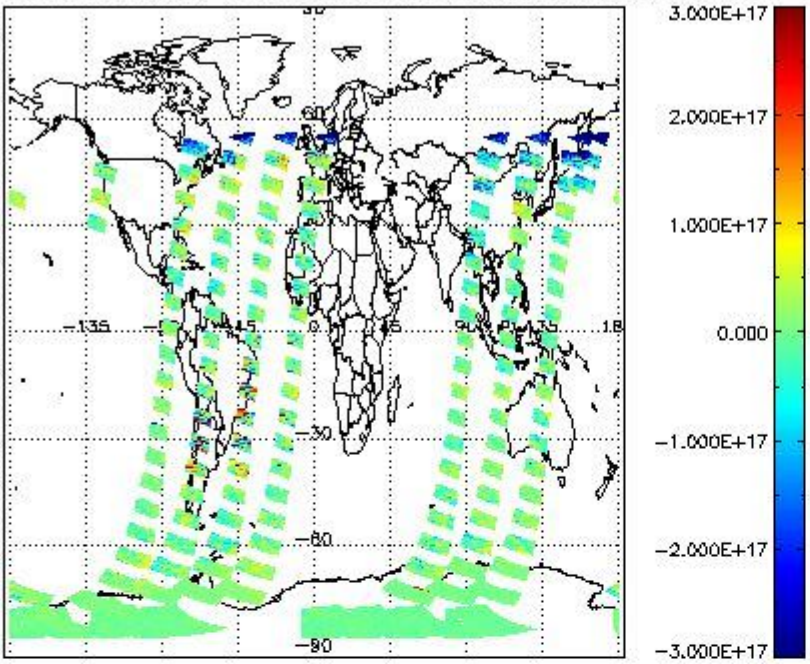
SCIOL2P_NADUV3BRO_amf_cl for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



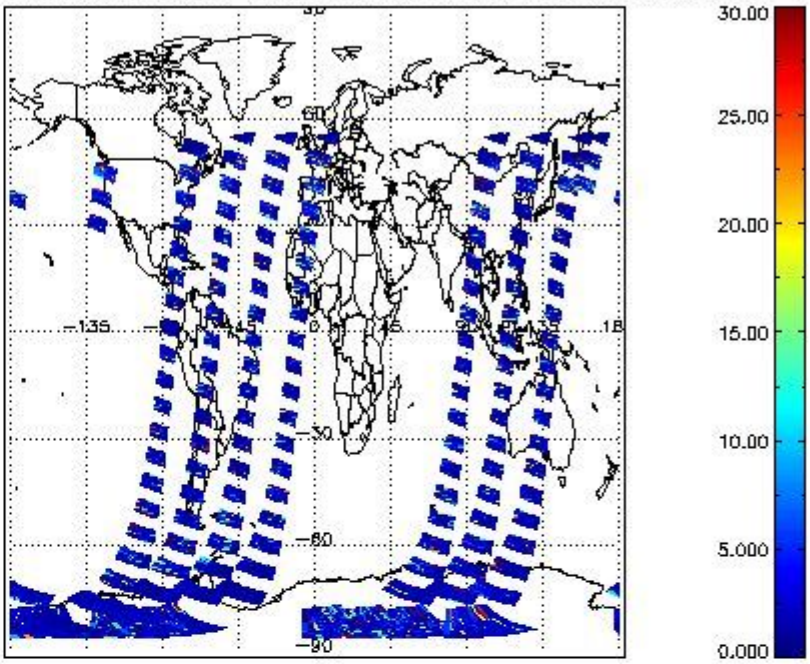
2.2.2.4 SO2 (UV5)



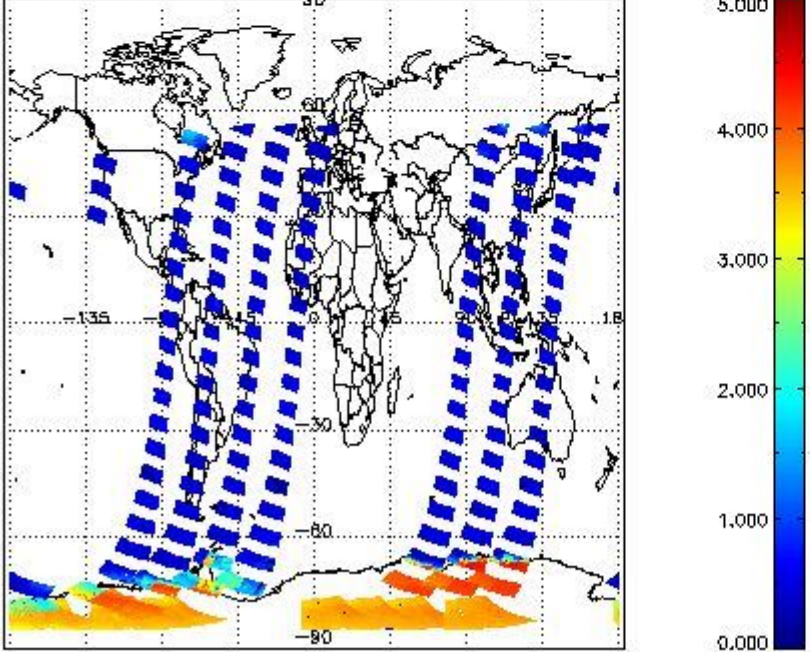
SCIOL2P_NADUV5SO2_vcd for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



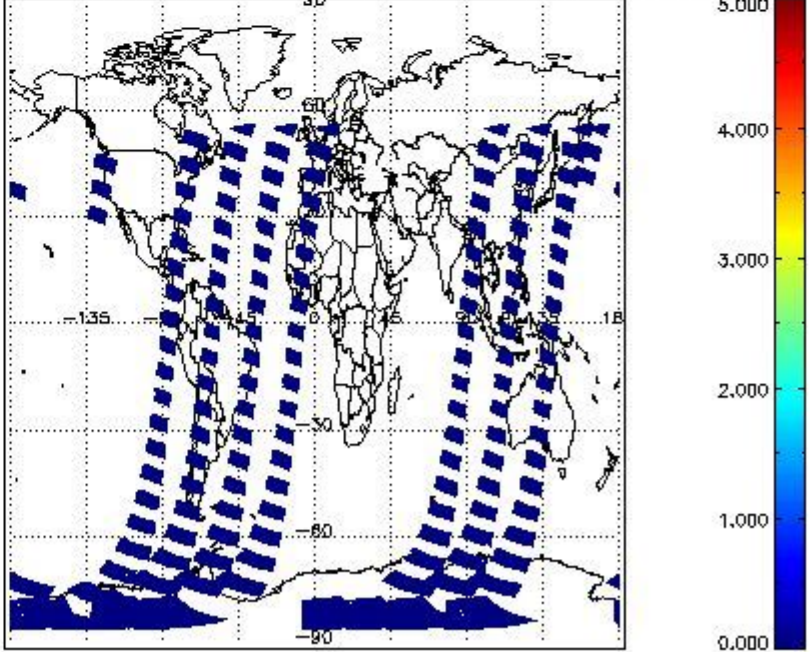
SCIOL2P_NADUV5SO2_vcd_err for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



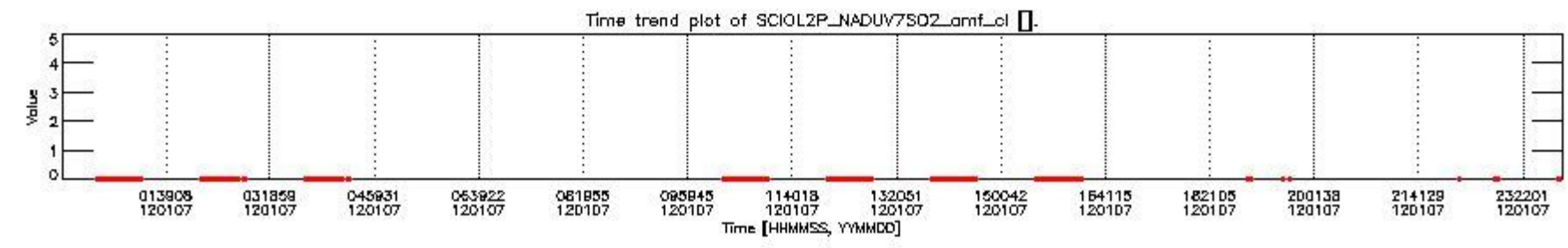
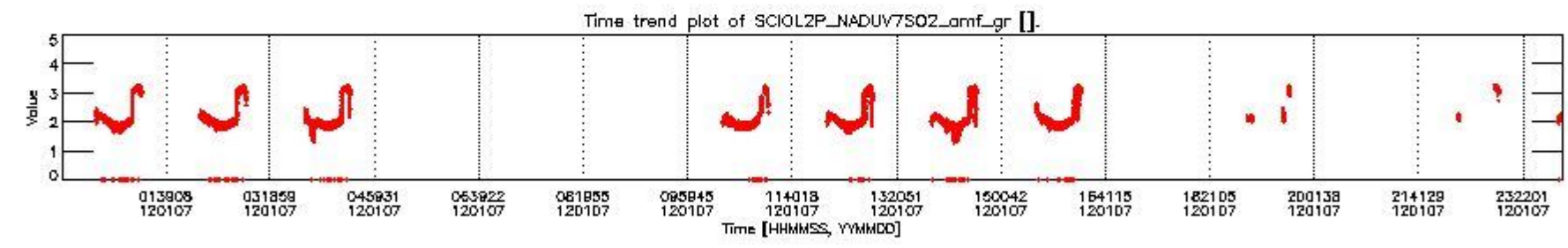
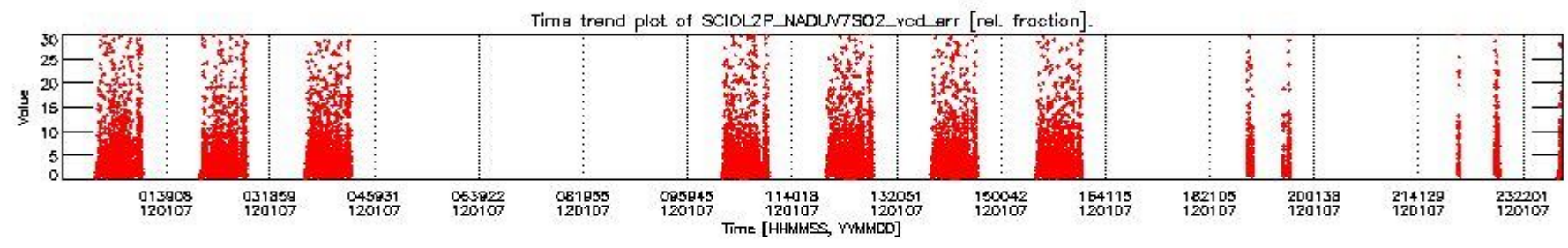
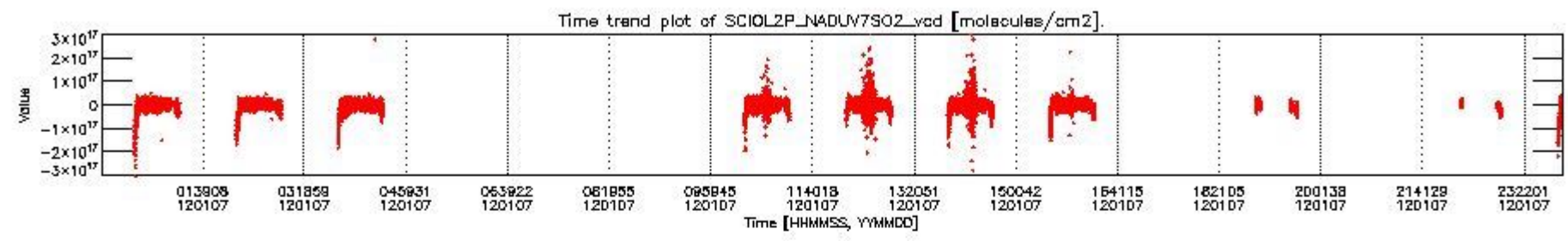
SCIOL2P_NADUV5SO2_amf_gr for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



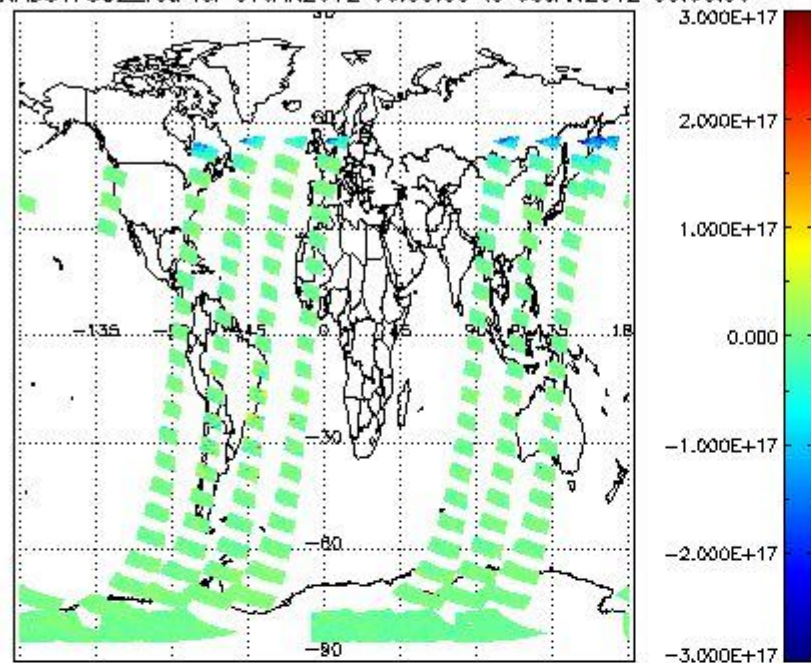
SCIOL2P_NADUV5SO2_amf_cl for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



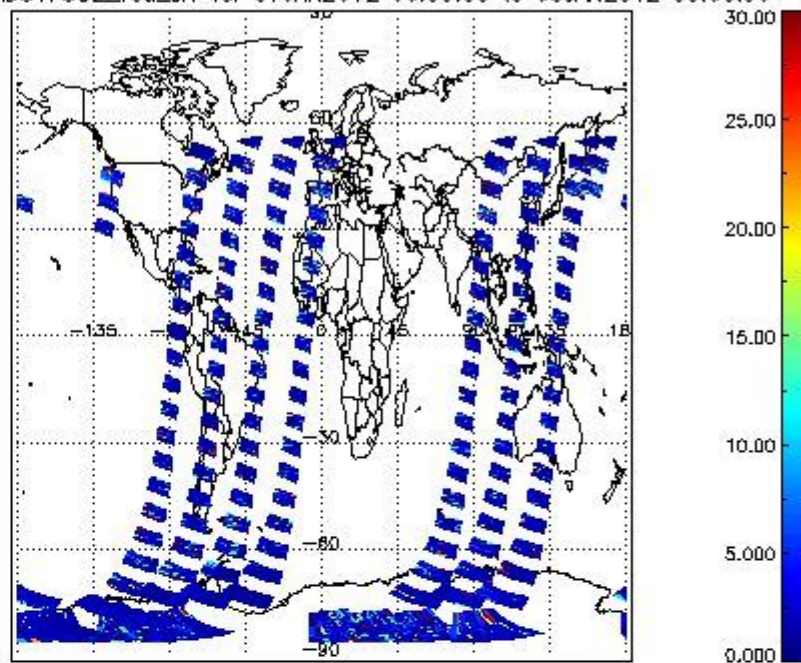
2.2.2.5 SO2 (UV7)



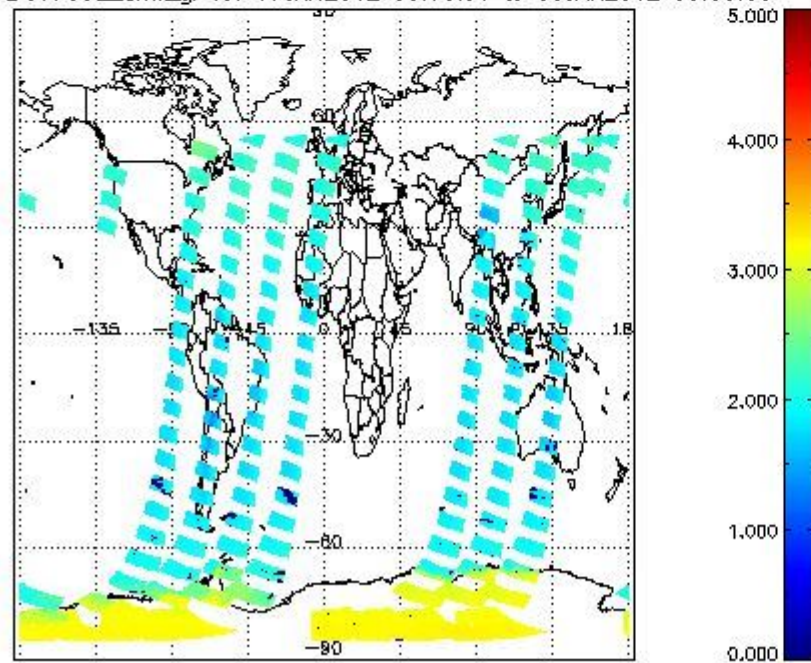
SCIOL2P_NADUV7S02_vcd for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



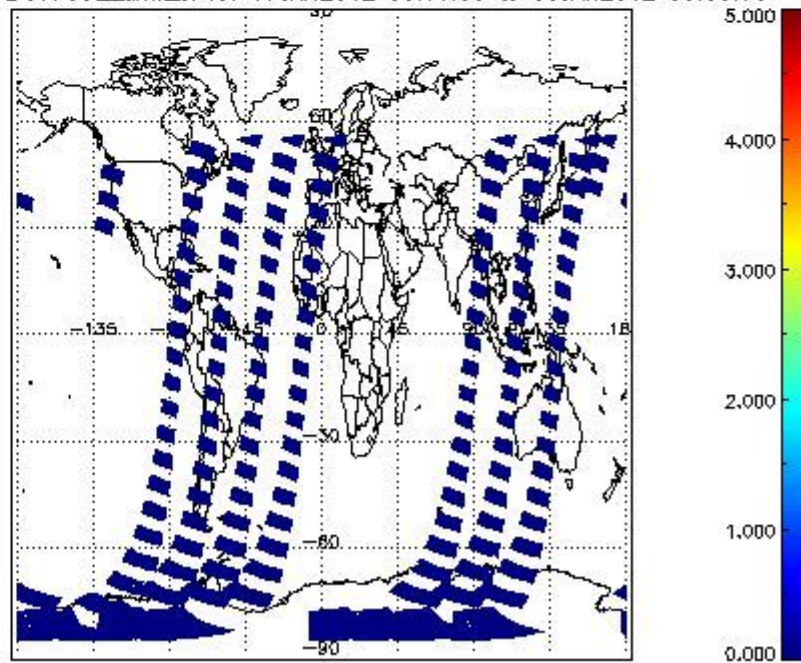
SCIOL2P_NADUV7S02_vcd_err for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



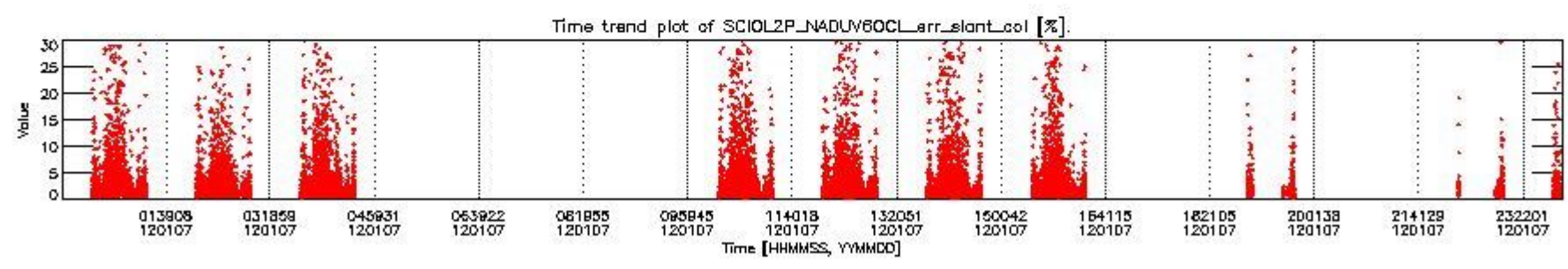
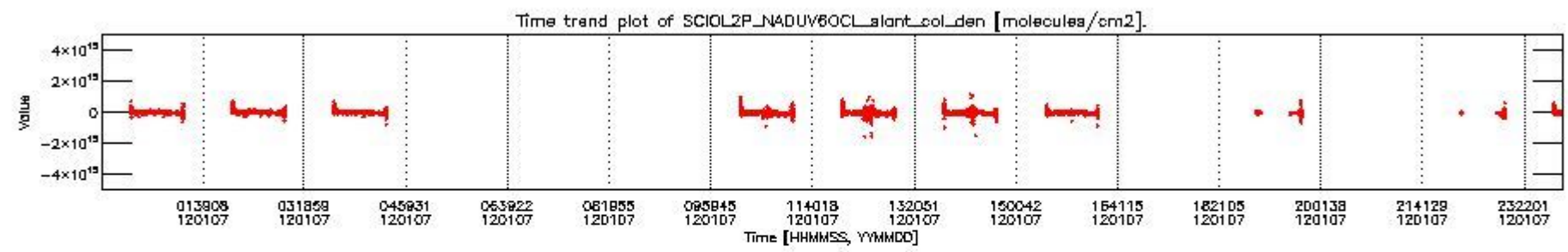
SCIOL2P_NADUV7S02_amf_gr for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



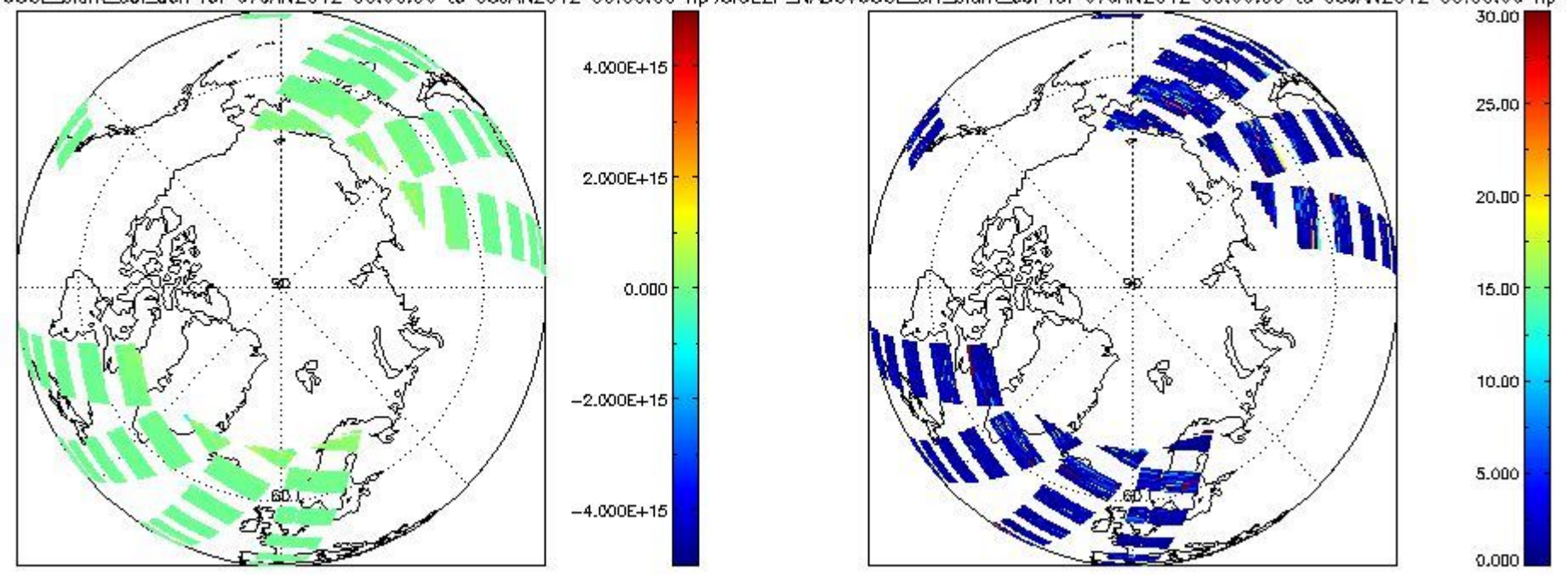
SCIOL2P_NADUV7S02_amf_cl for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



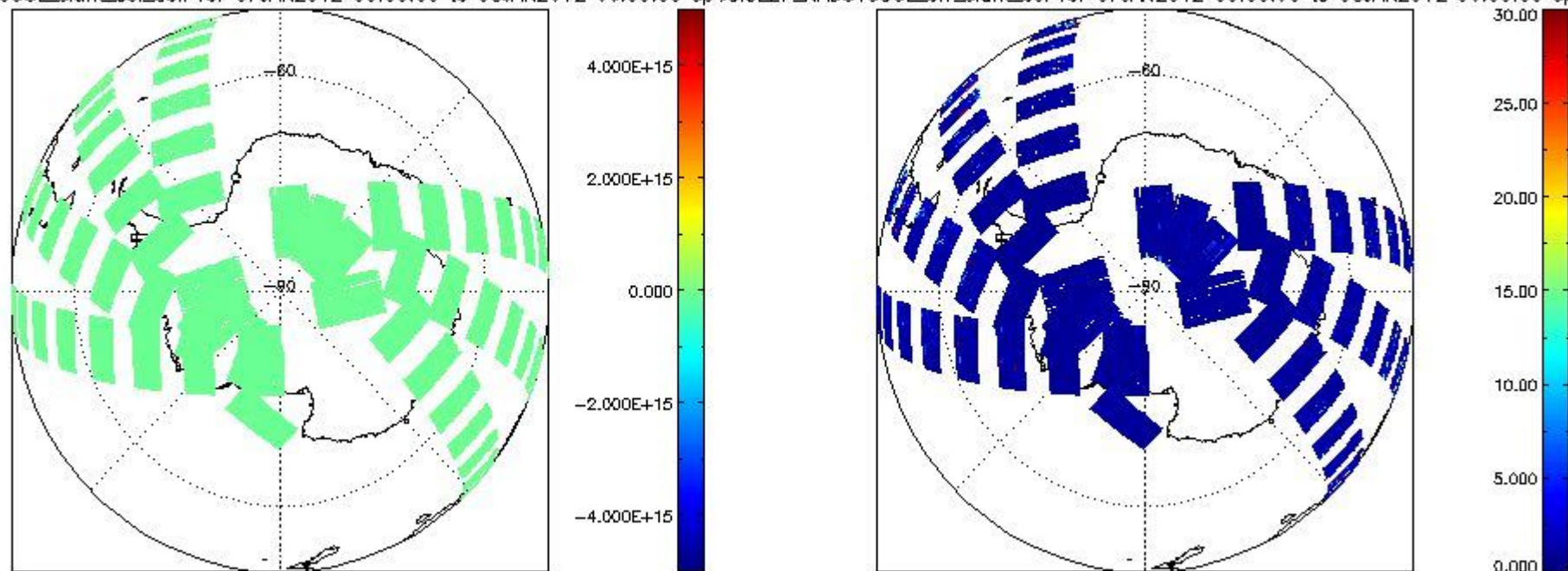
2.2.2.6 OCIO (UV6)



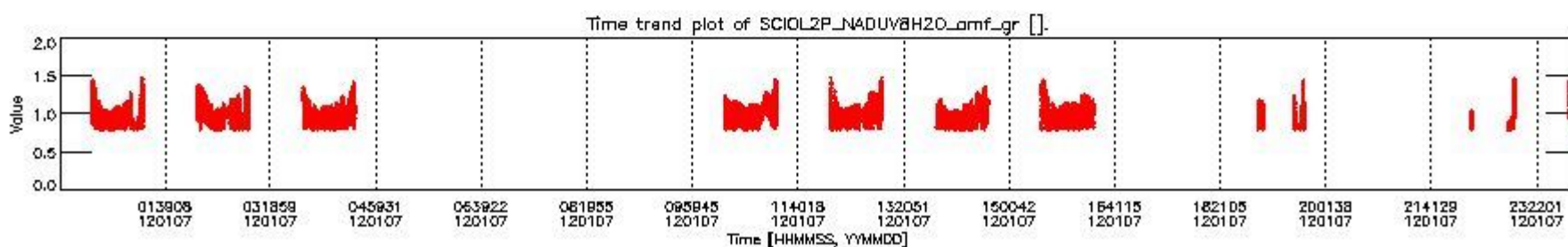
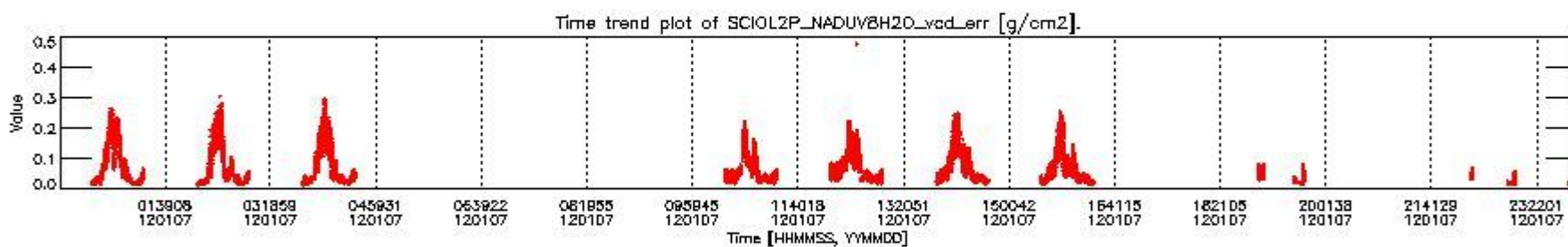
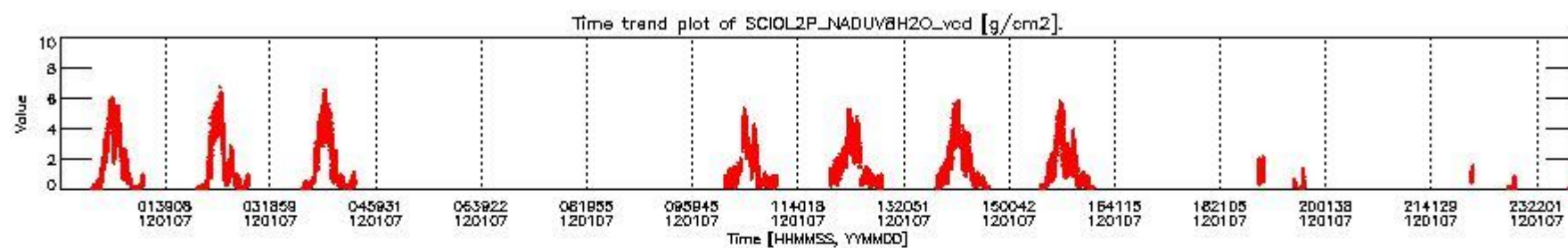
SCIOI2P_NADUV60CL_slant_col_den for 07JAN2012 00:00:00 to 08JAN2012 00:00:00 np; SCIOI2P_NADUV60CL_err_slant_col for 07JAN2012 00:00:00 to 08JAN2012 00:00:00 np



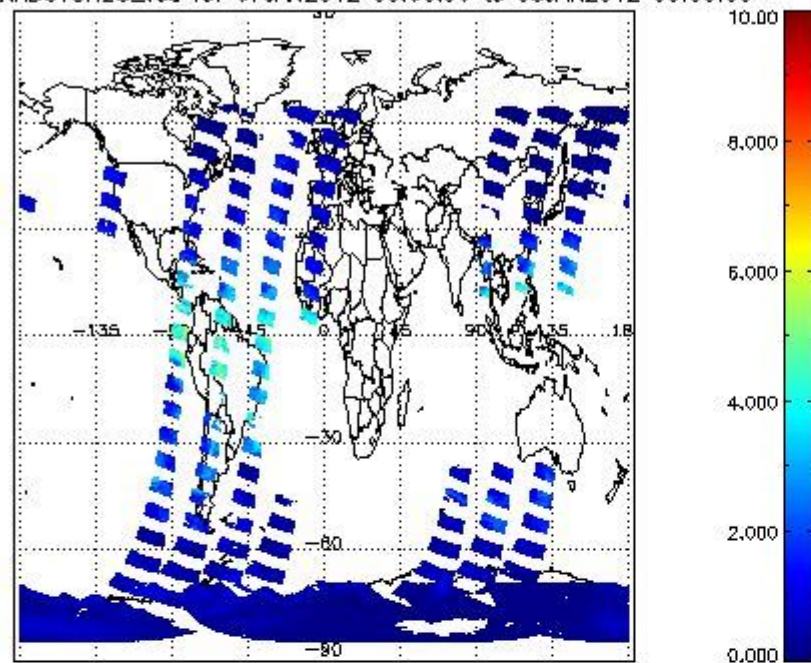
SCIOL2P_NADUV60CL_slant_col_den for 07JAN2012 00:00:00 to 08JAN2012 00:00:00 sp SCIOL2P_NADUV60CL_err_slant_col for 07JAN2012 00:00:00 to 08JAN2012 00:00:00 sp



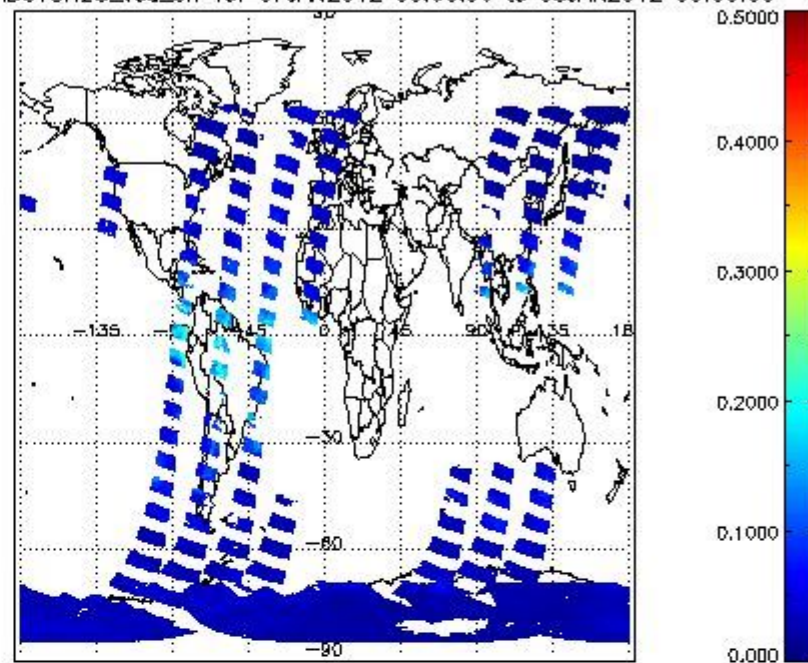
2.2.2.7 H2O (UV8)



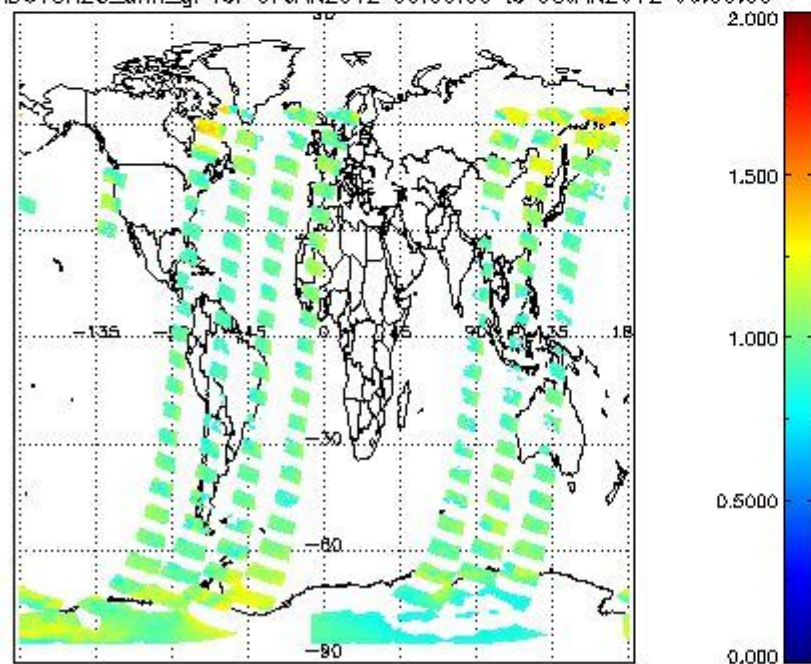
SCIOL2P_NADUV8H20_vcd for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

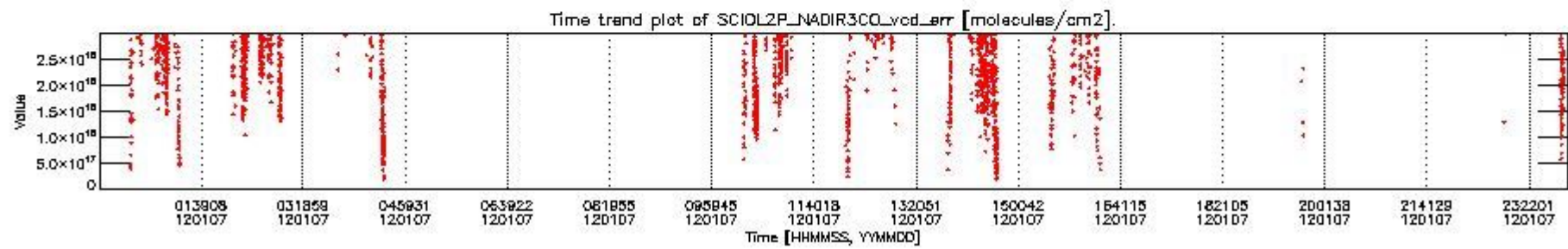
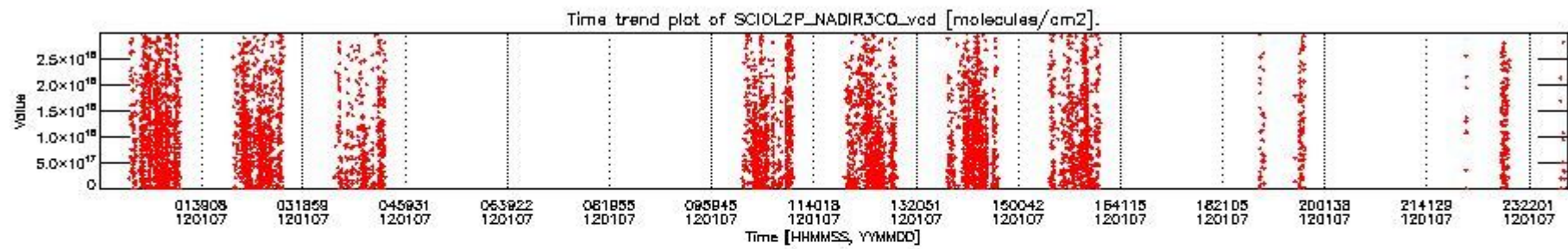


SCIOL2P_NADUV8H20_vcd_err for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

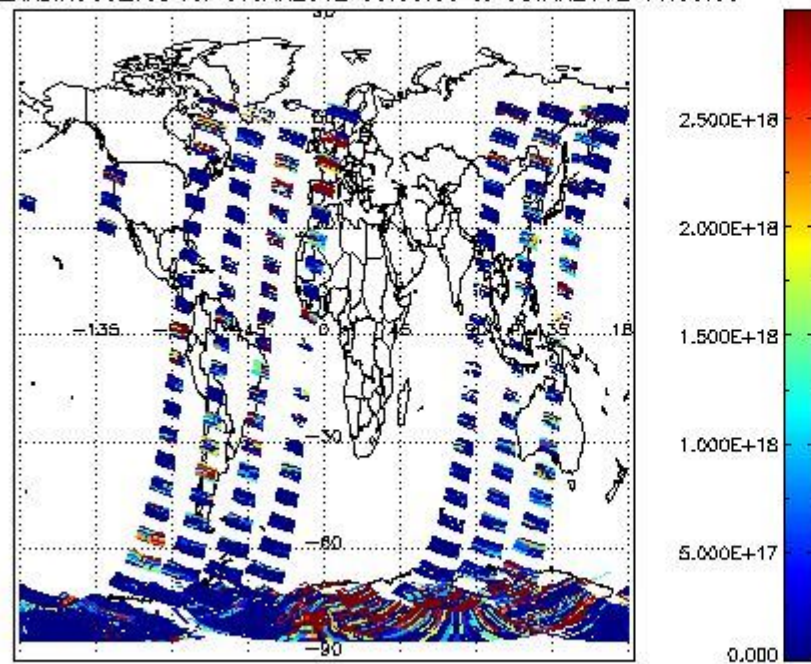


SCIOL2P_NADUV8H20_amf_gr for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

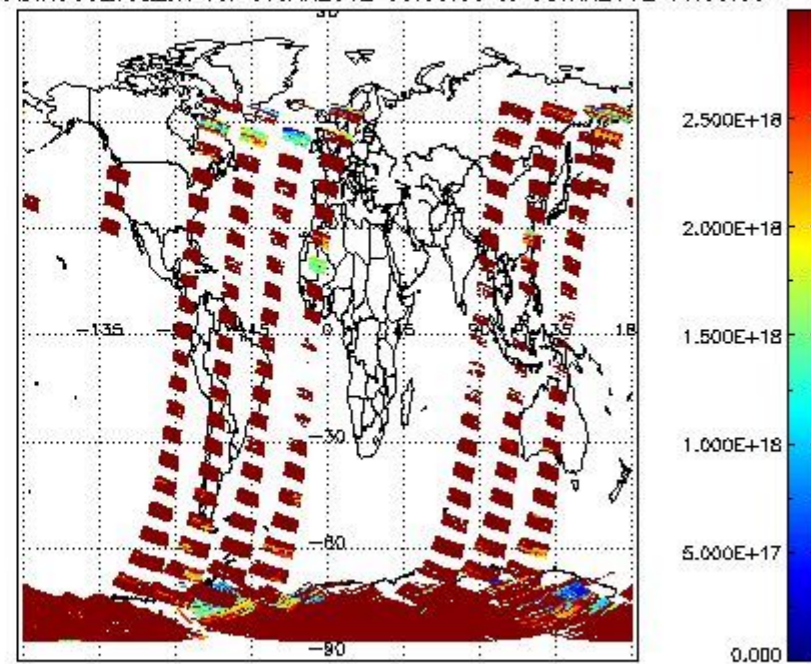




SCIDL2P_NADIR3CO_vcd for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



SCIDL2P_NADIR3CO_vcd_err for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



2.2.3 Limb

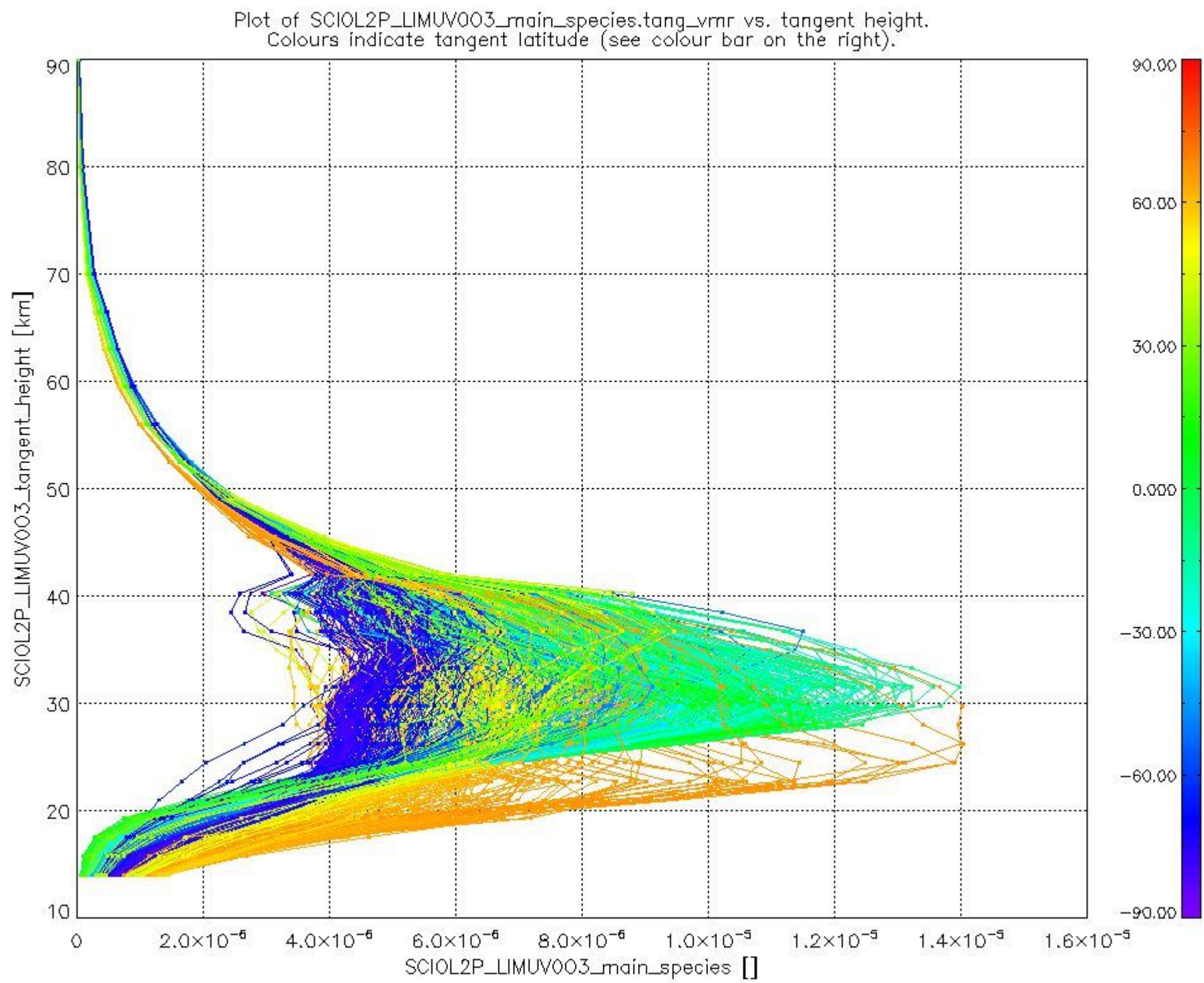
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

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

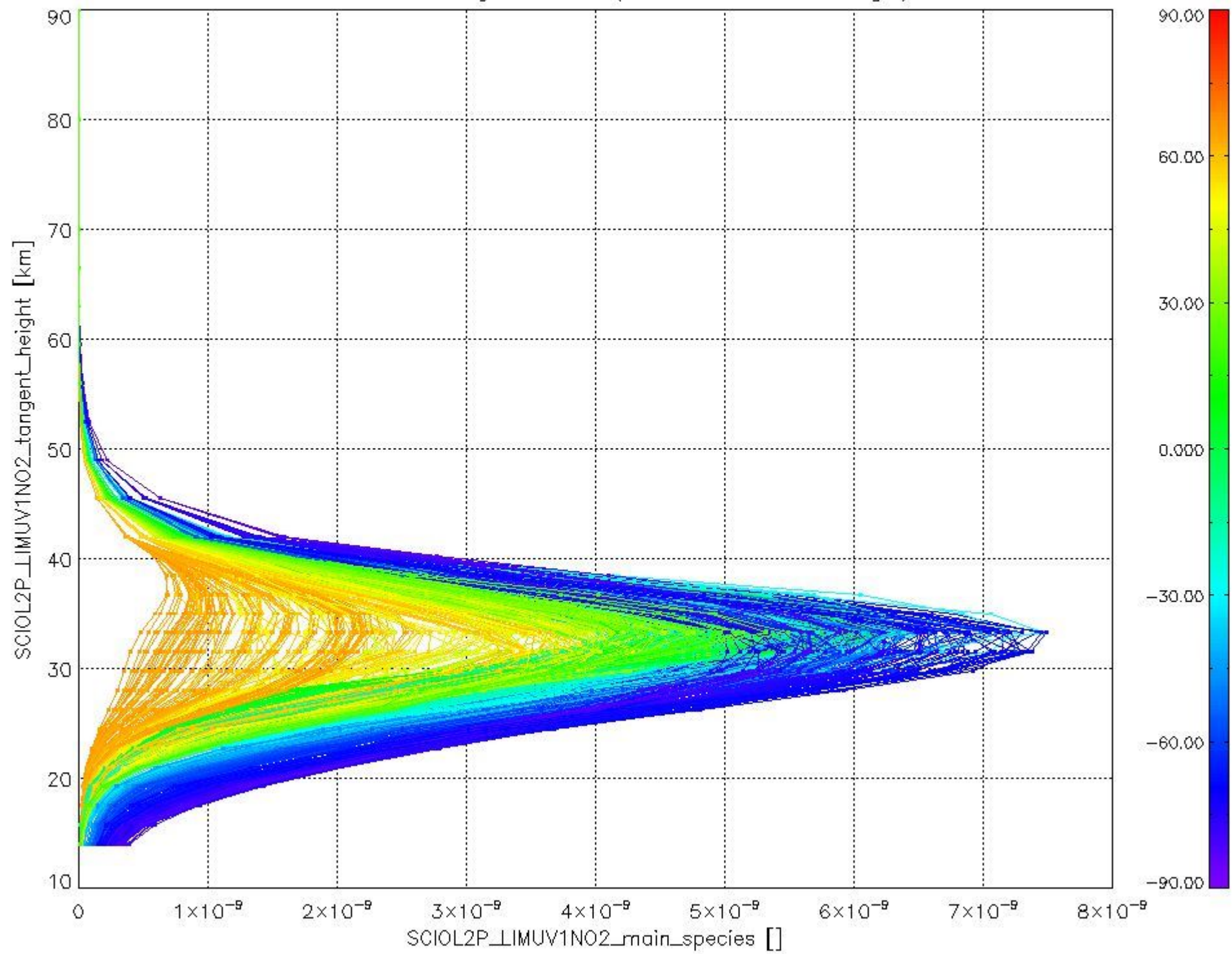
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



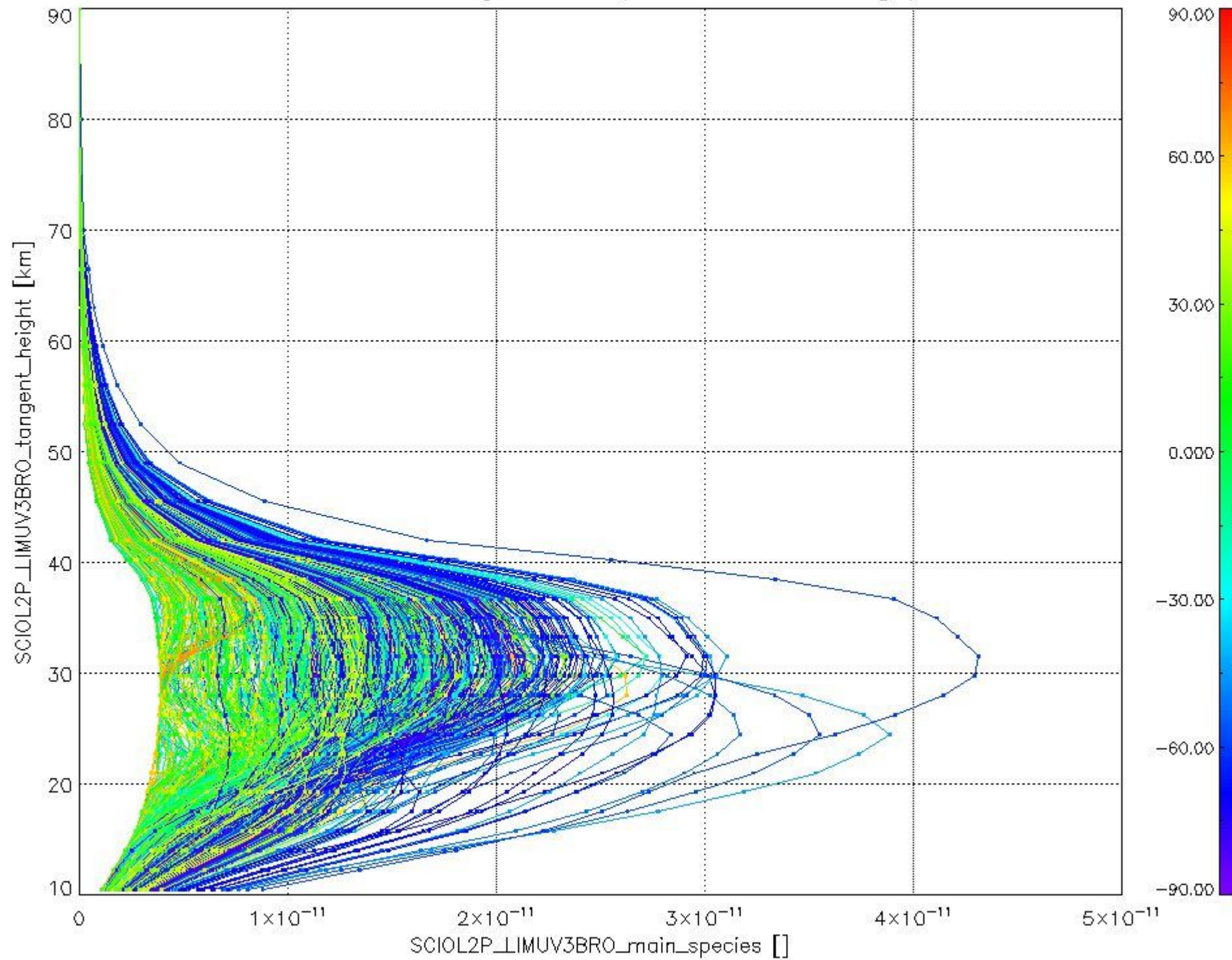
2.2.3.2 NO2 (UV1)

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)

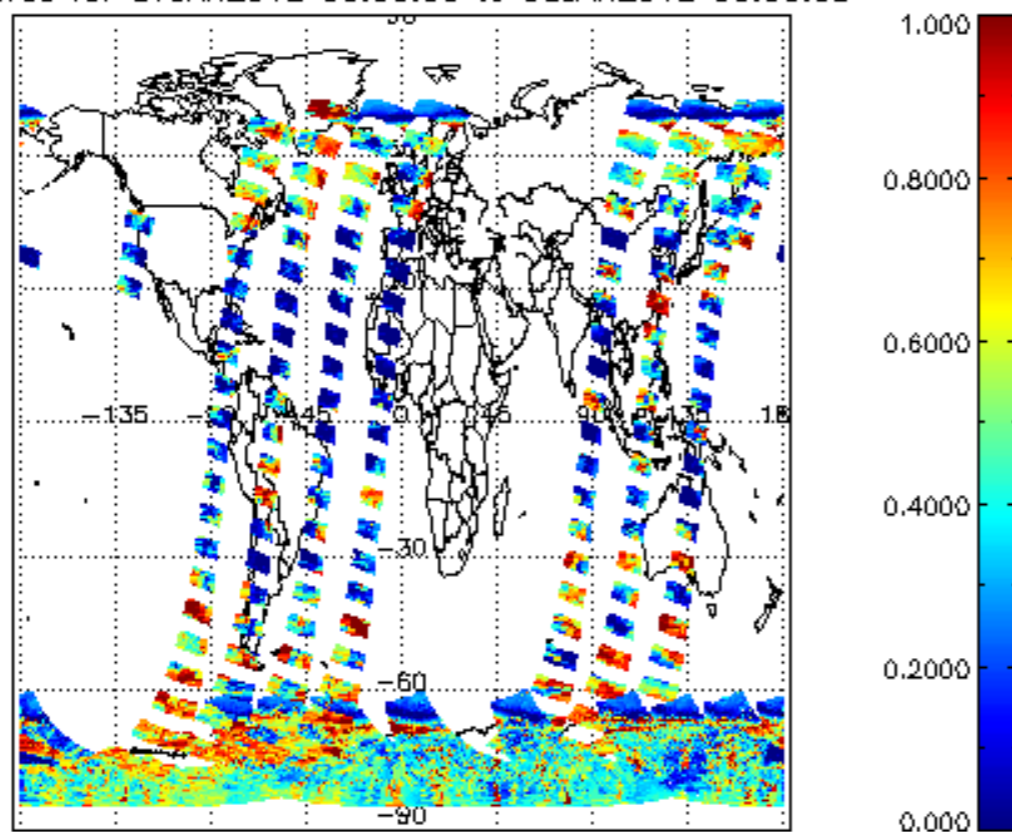
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



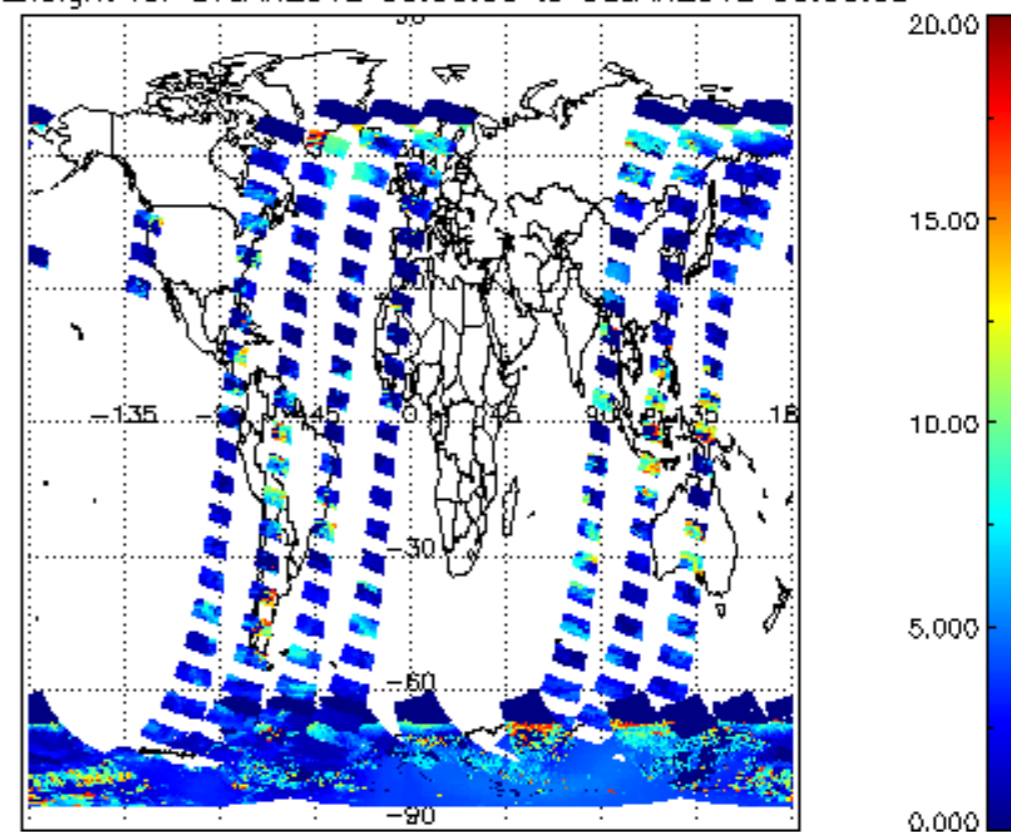
2.3 ADF monitoring

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_AXVIEC20120110_124620_20120106_183959_20120108_183959
3	SCI_MF1_AXVIEC20120113_143443_20120107_180313_20120109_180313

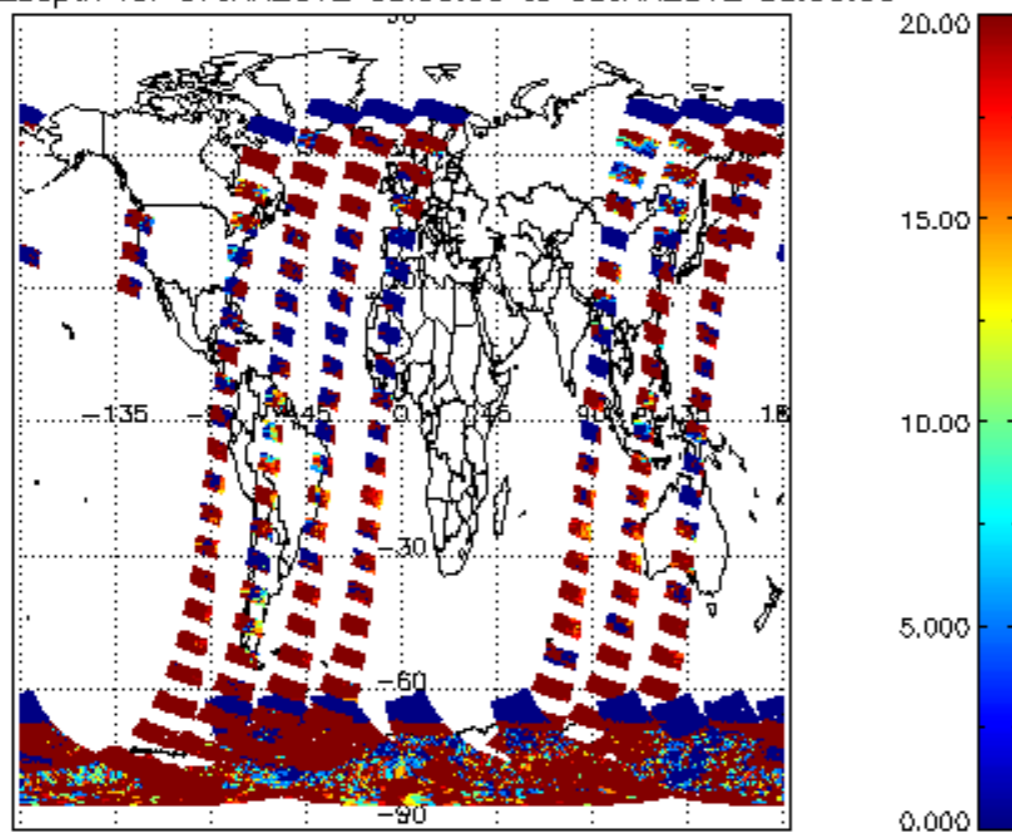
cL_frac for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



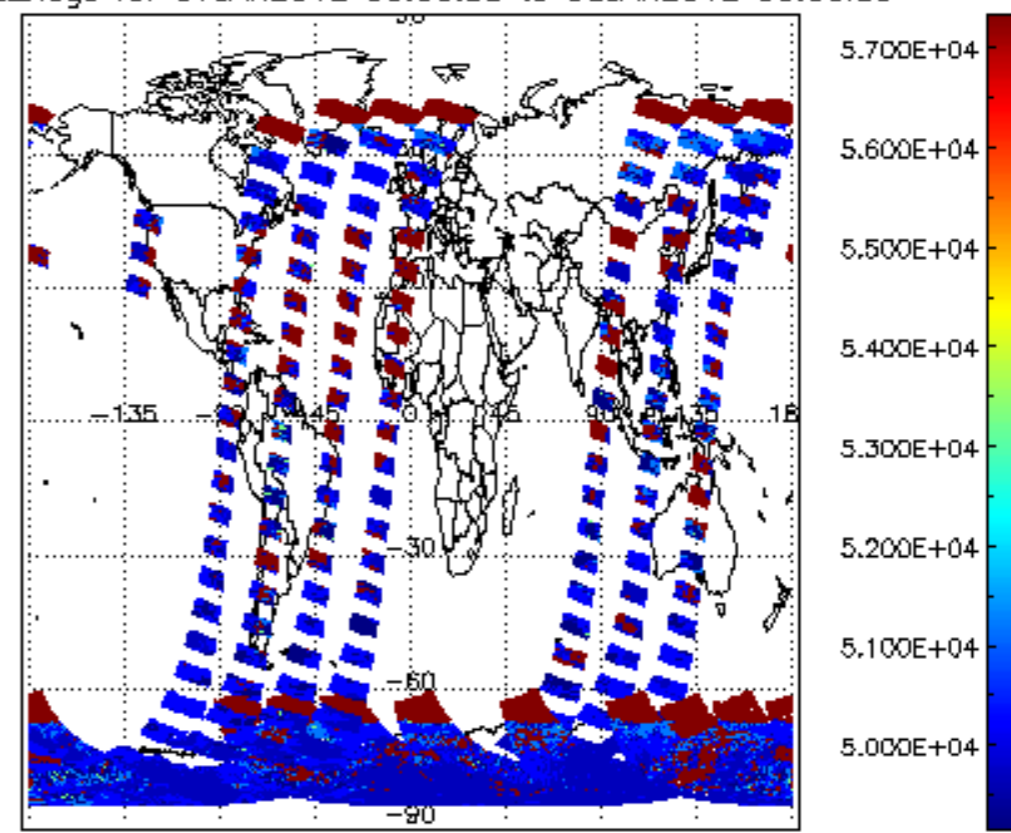
cL_top_height for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

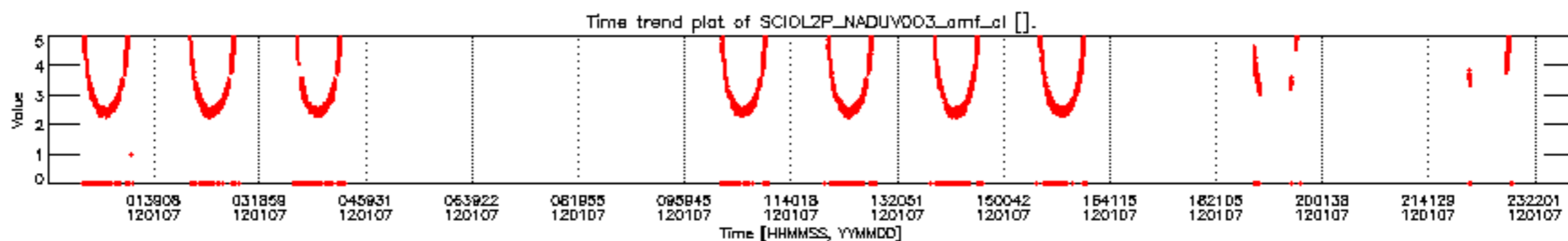
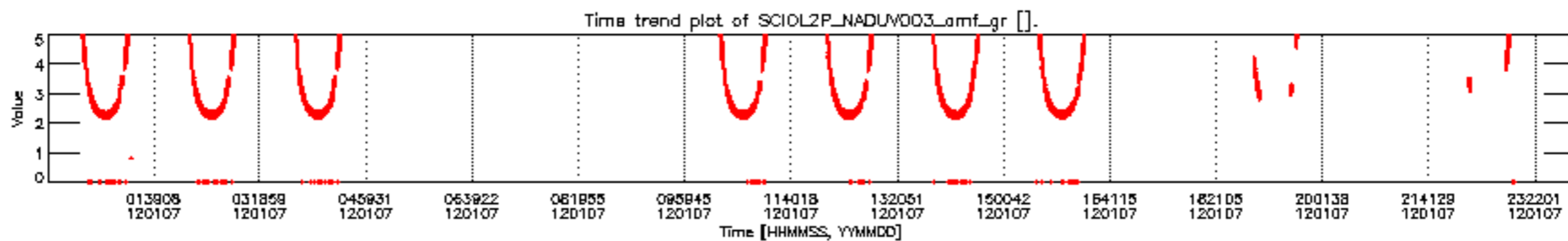
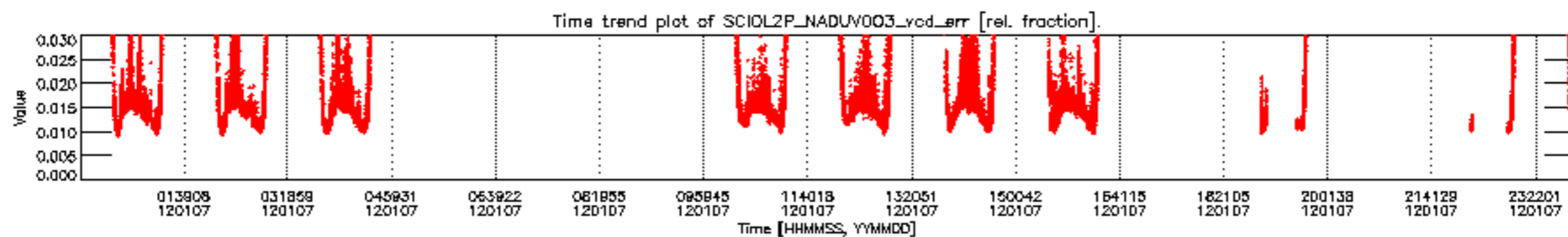
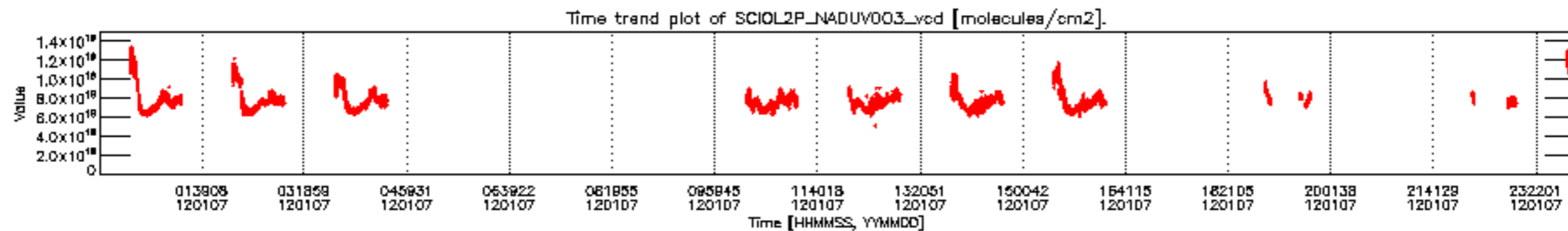


cLopt_depth for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

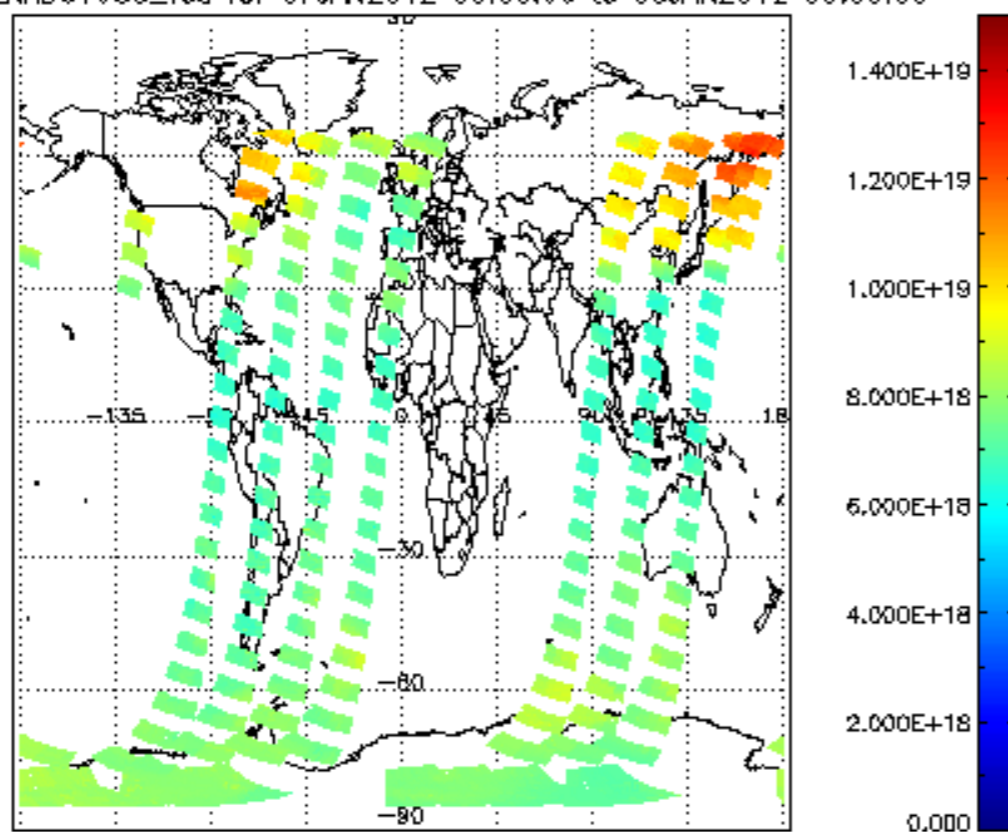


cloud_flags for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

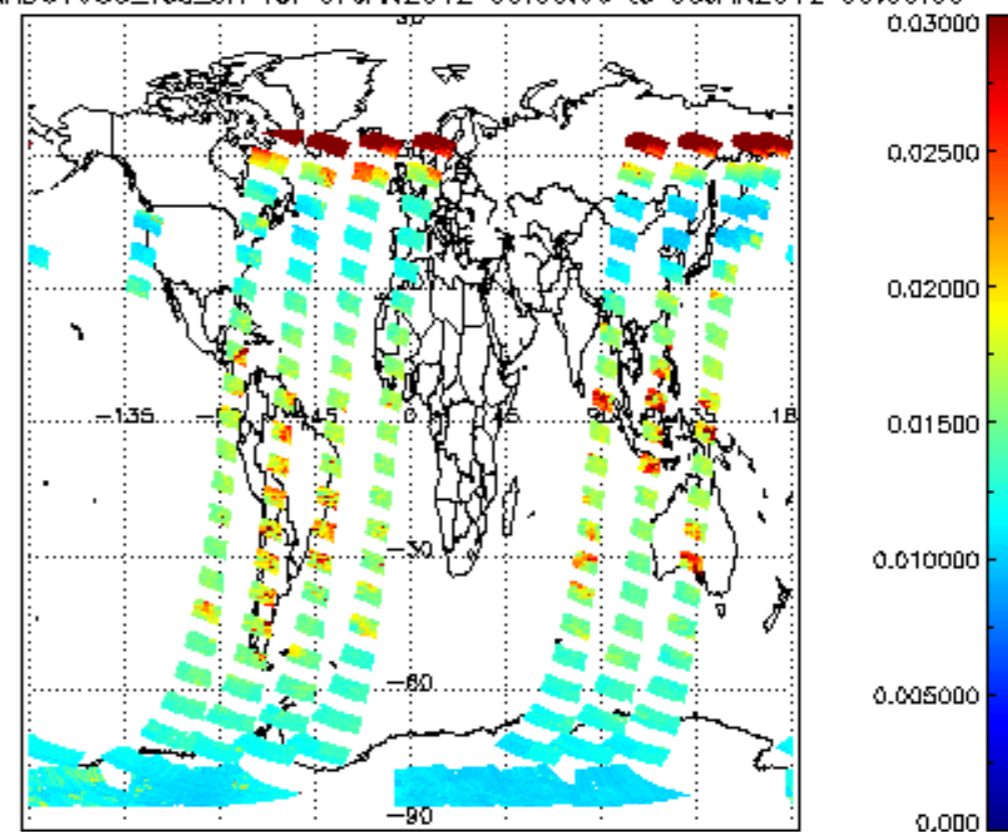




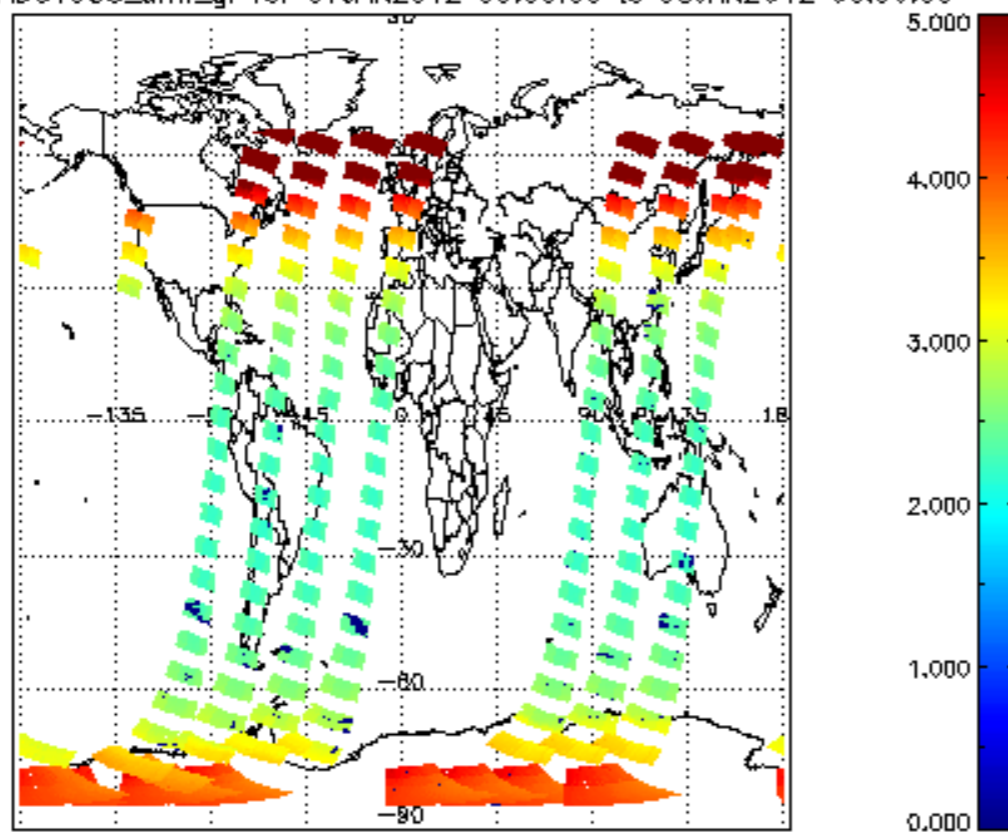
SCIOL2P_NADUV003_vcd for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



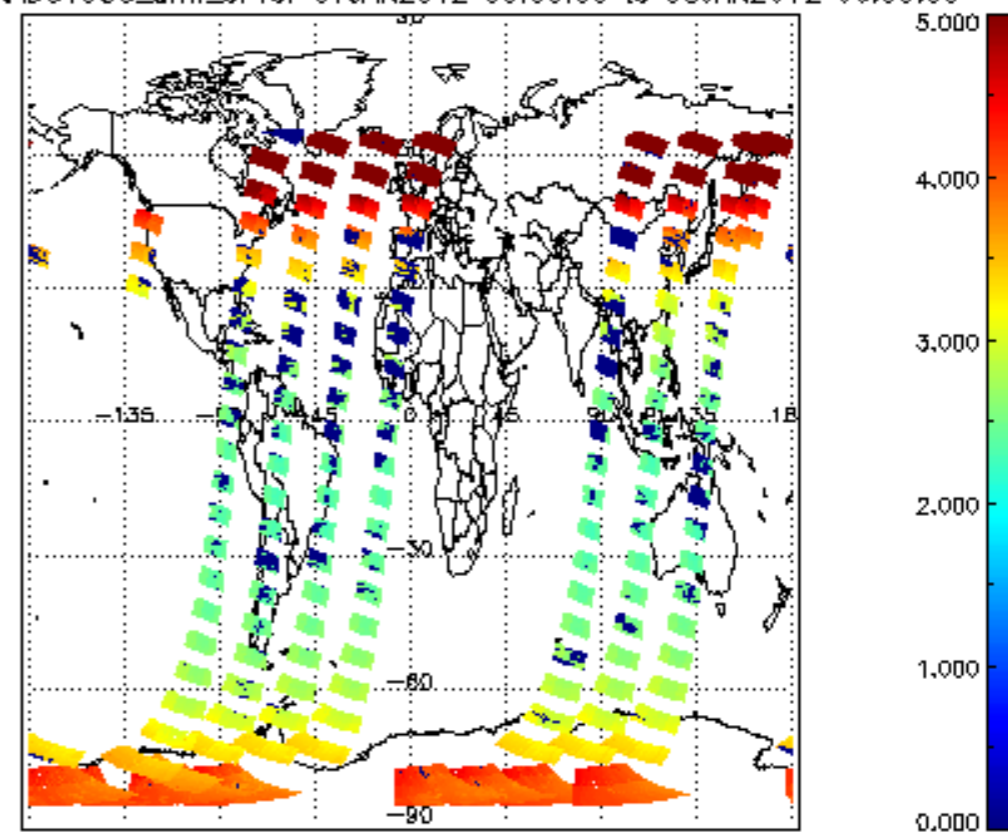
SCIOL2P_NADUV003_vcd_err for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

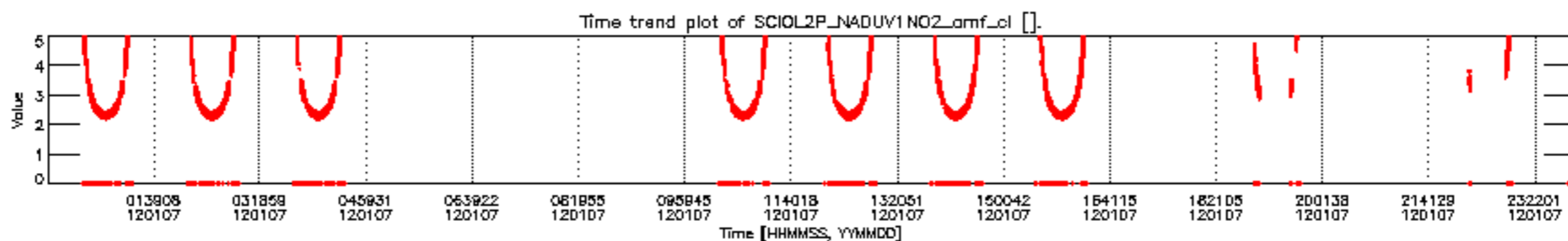
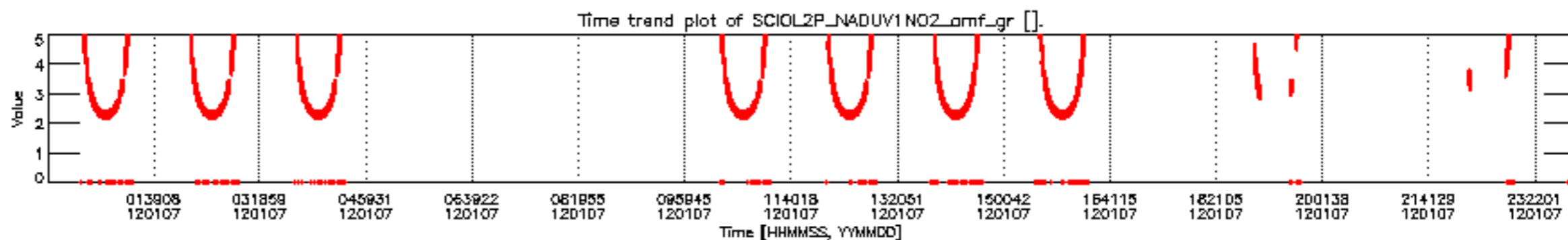
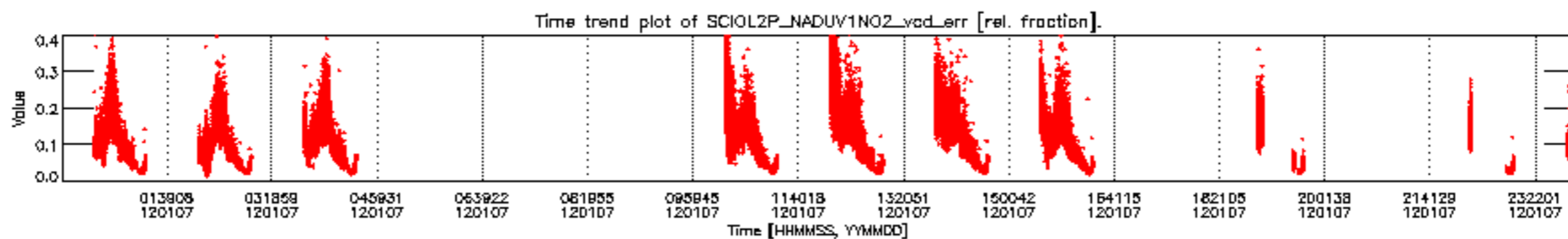
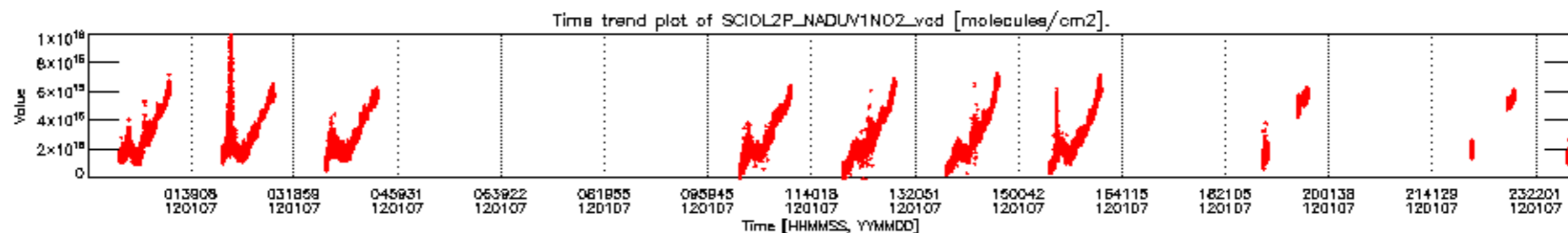


SCIOL2P_NADUV003_amf_gr for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

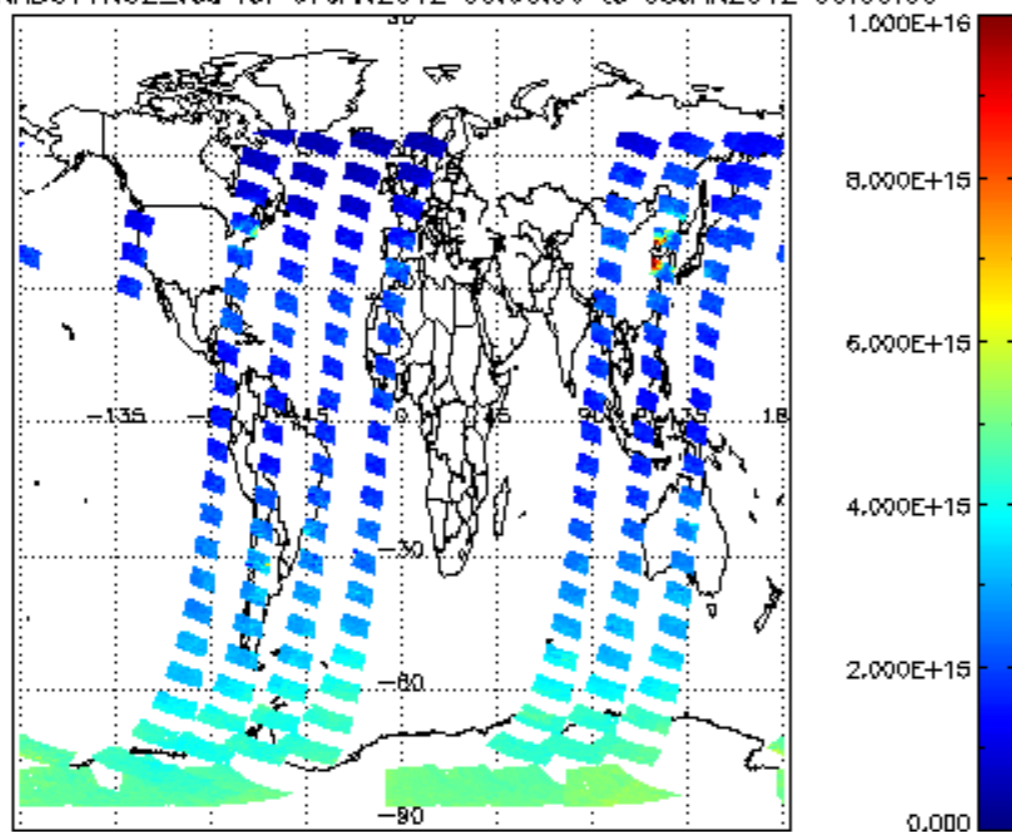


SCIOL2P_NADUV003_amf_cl for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

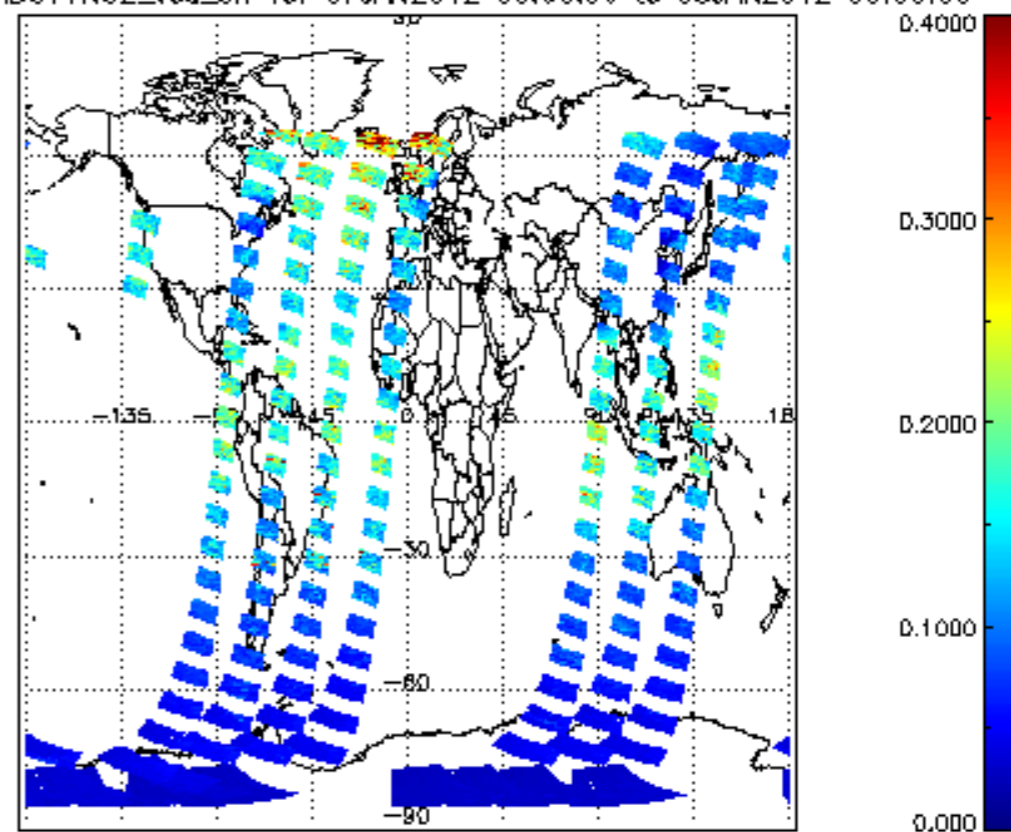




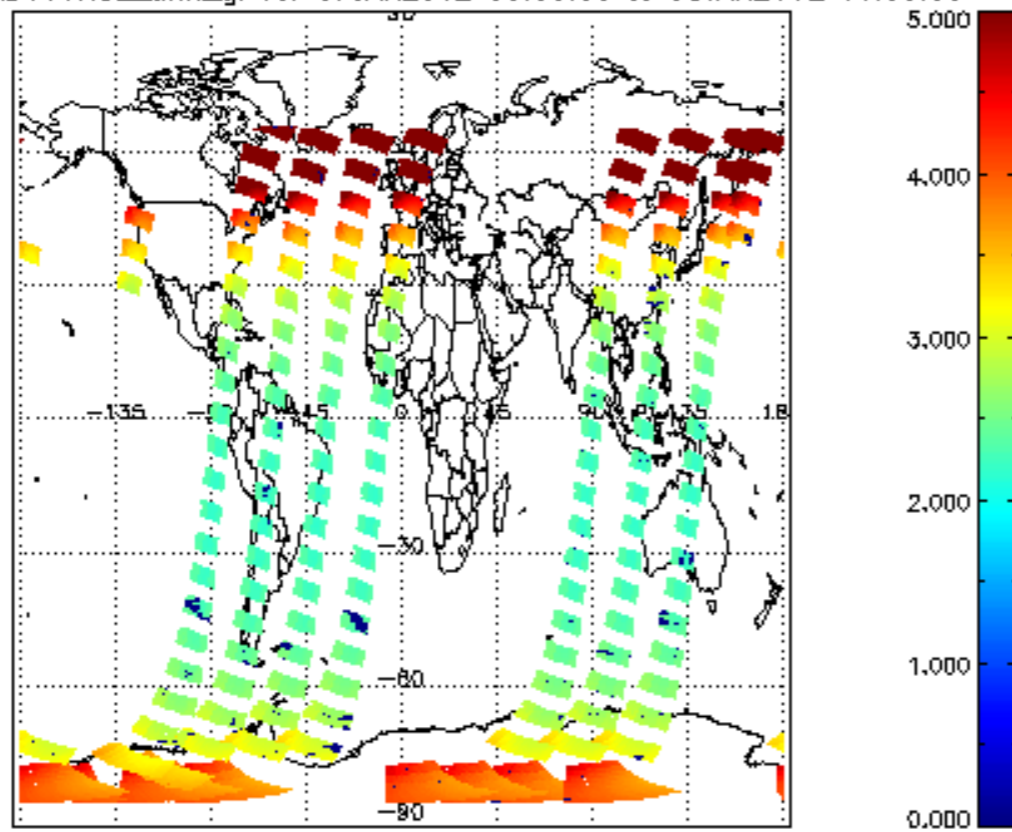
SCIOL2P_NADUV1NO2_vcd for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



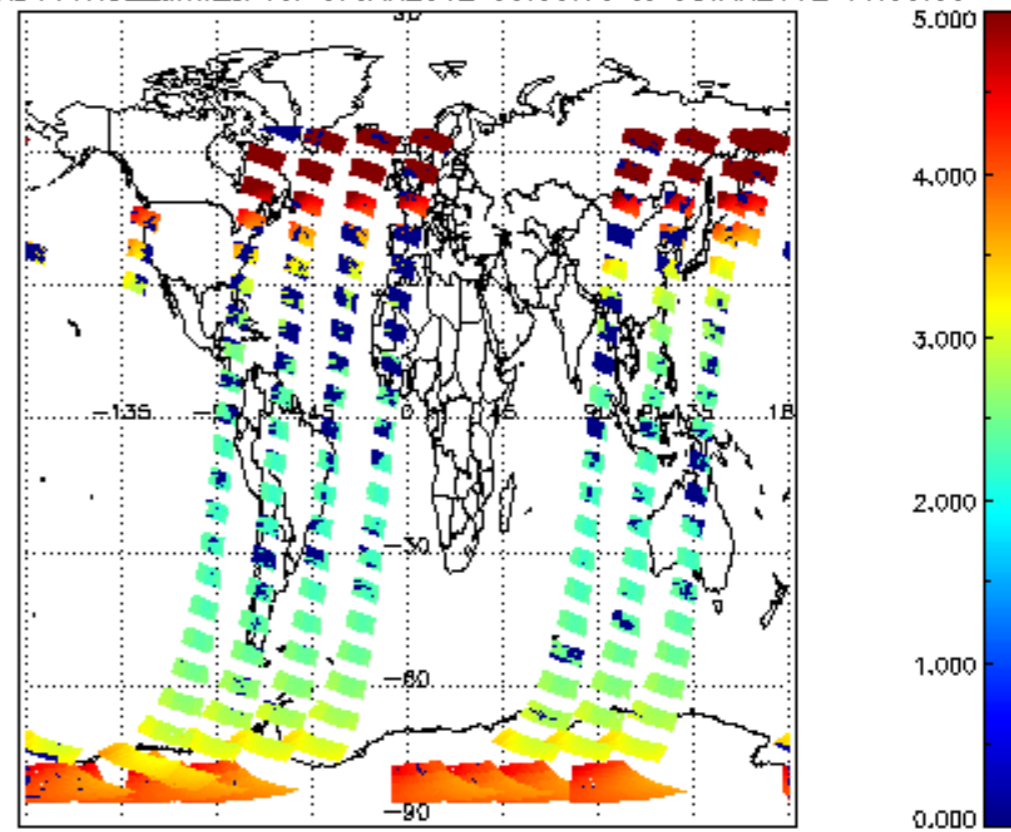
SCIOL2P_NADUV1NO2_vcd_err for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

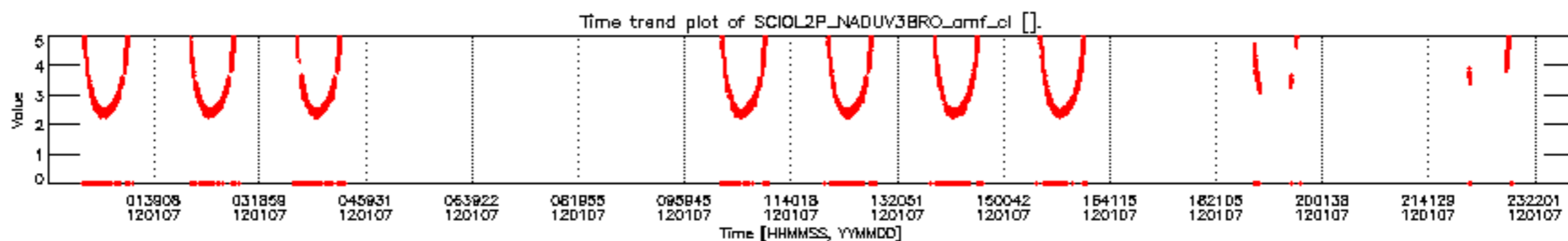
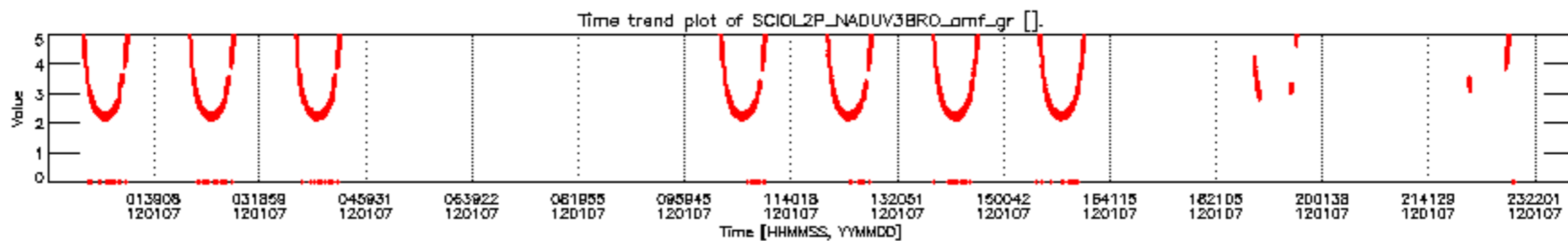
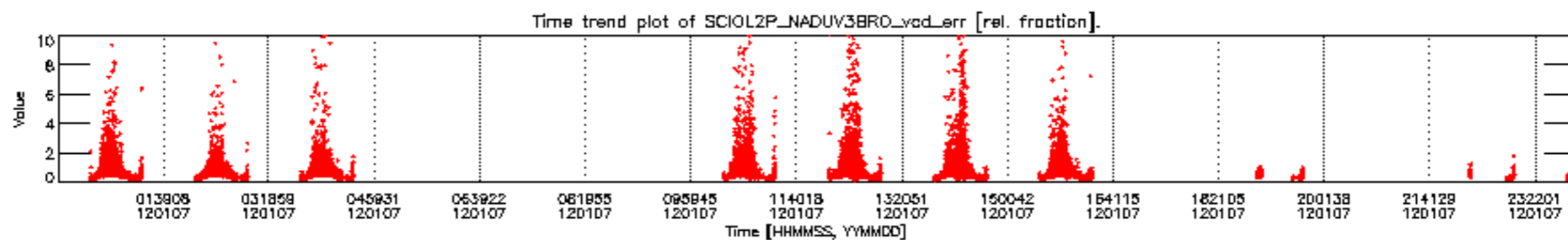
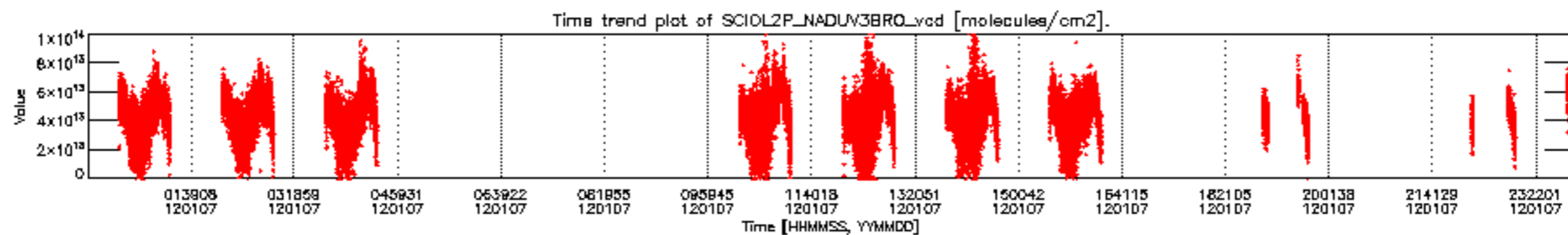


SCIOL2P_NADUV1NO2_amf_gr for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

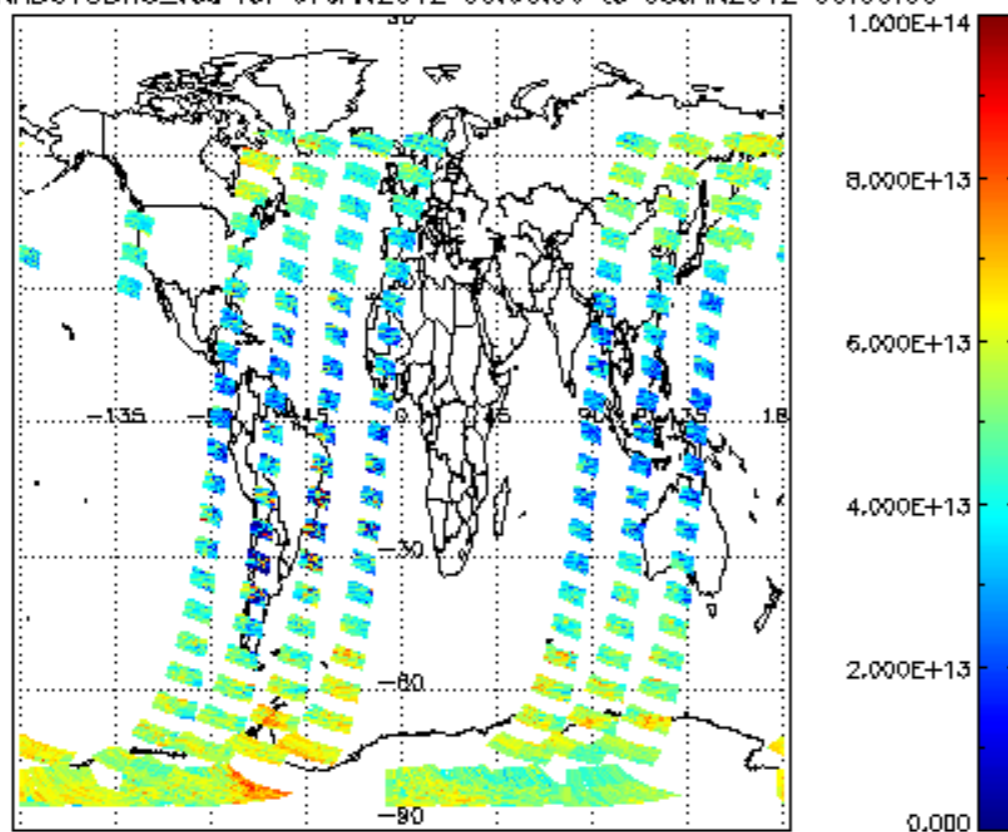


SCIOL2P_NADUV1NO2_amf_cl for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

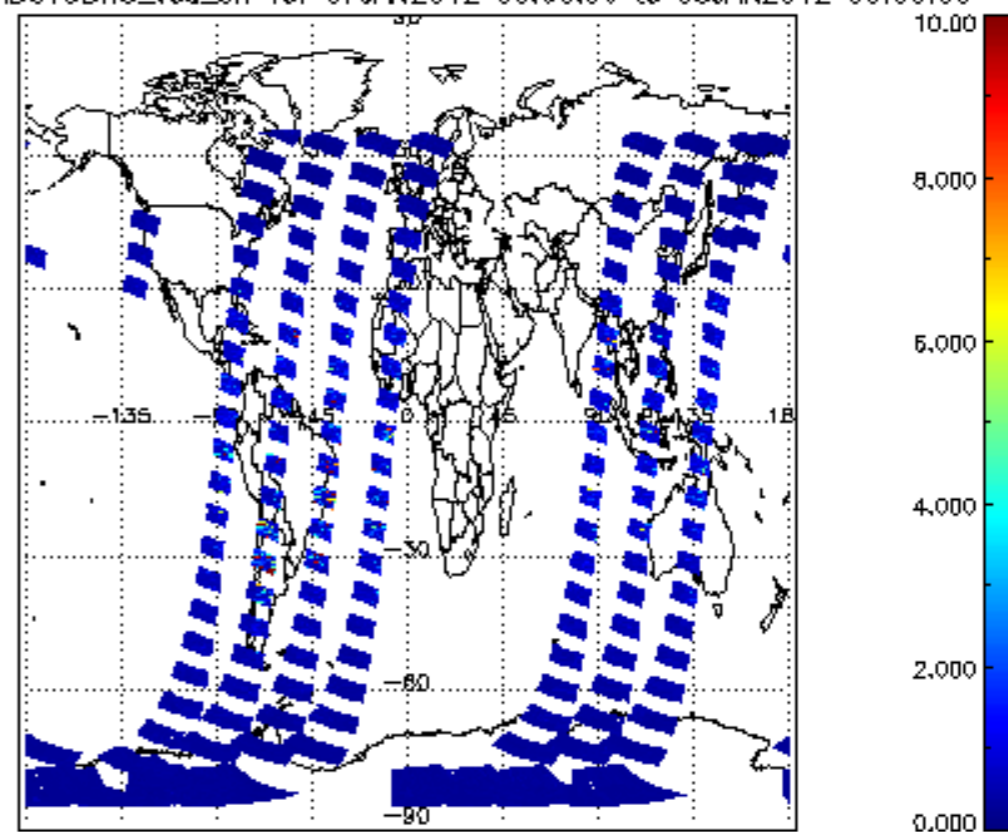




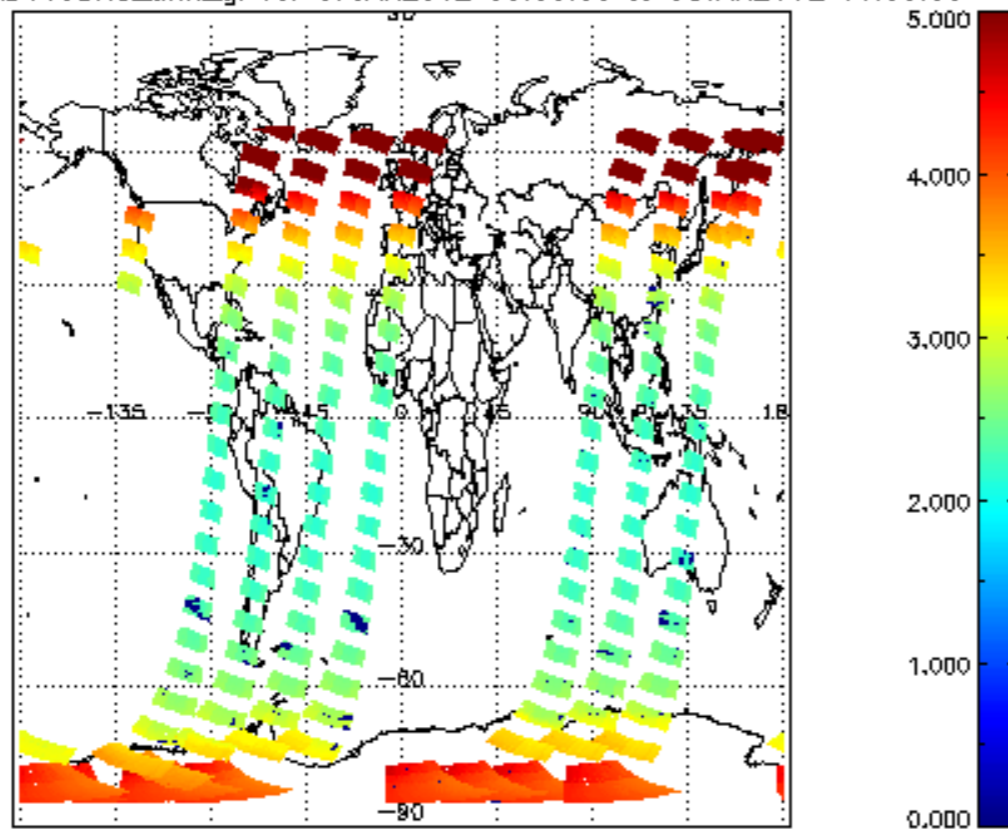
SCIOL2P_NADUV3BRO_vcd for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



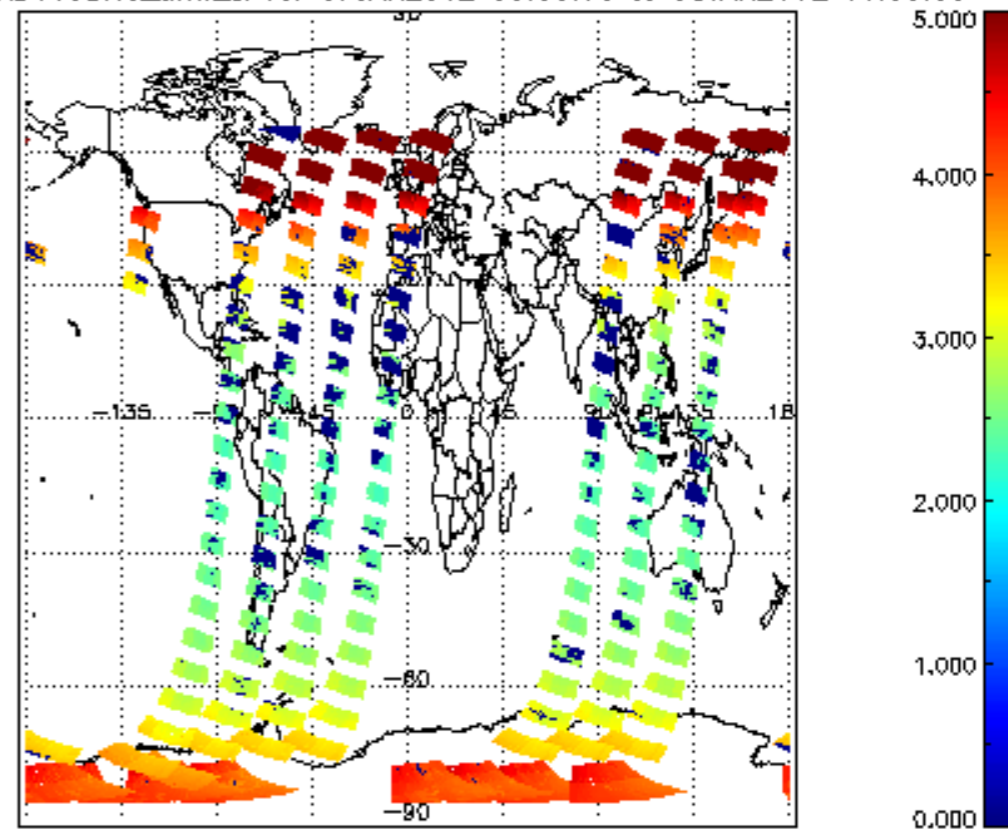
SCIOL2P_NADUV3BRO_vcd_err for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

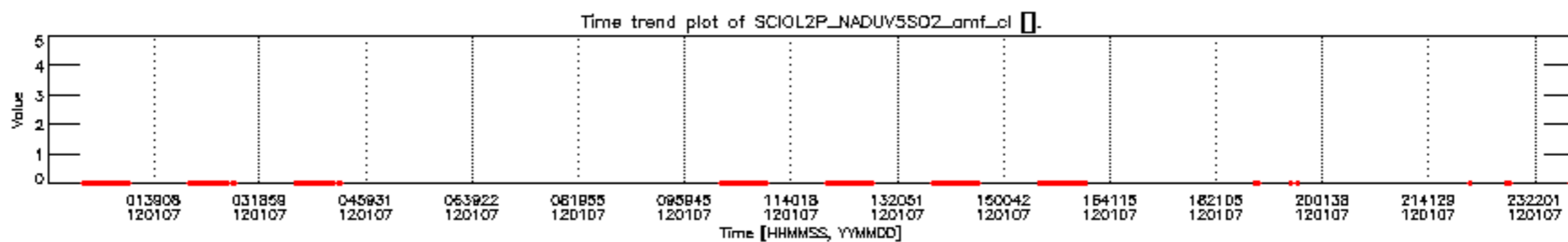
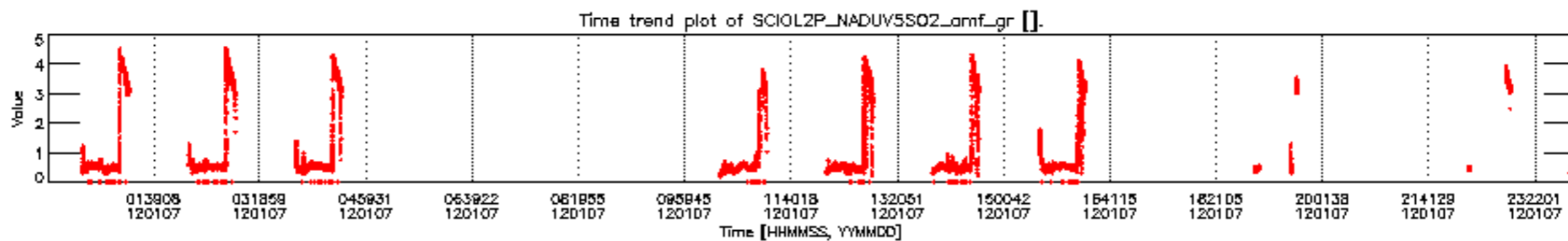
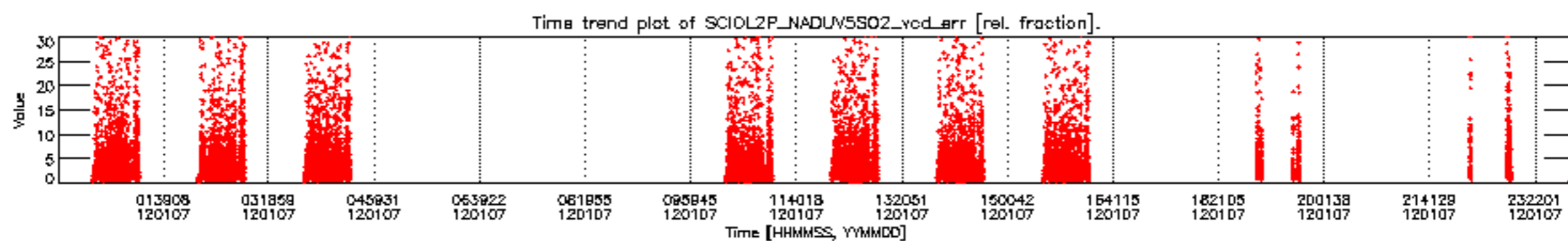
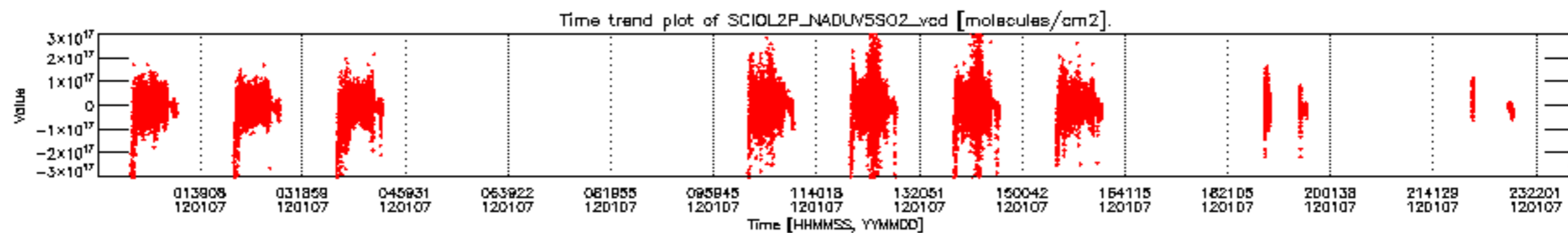


SCIOL2P_NADUV3BRO_amf_gr for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

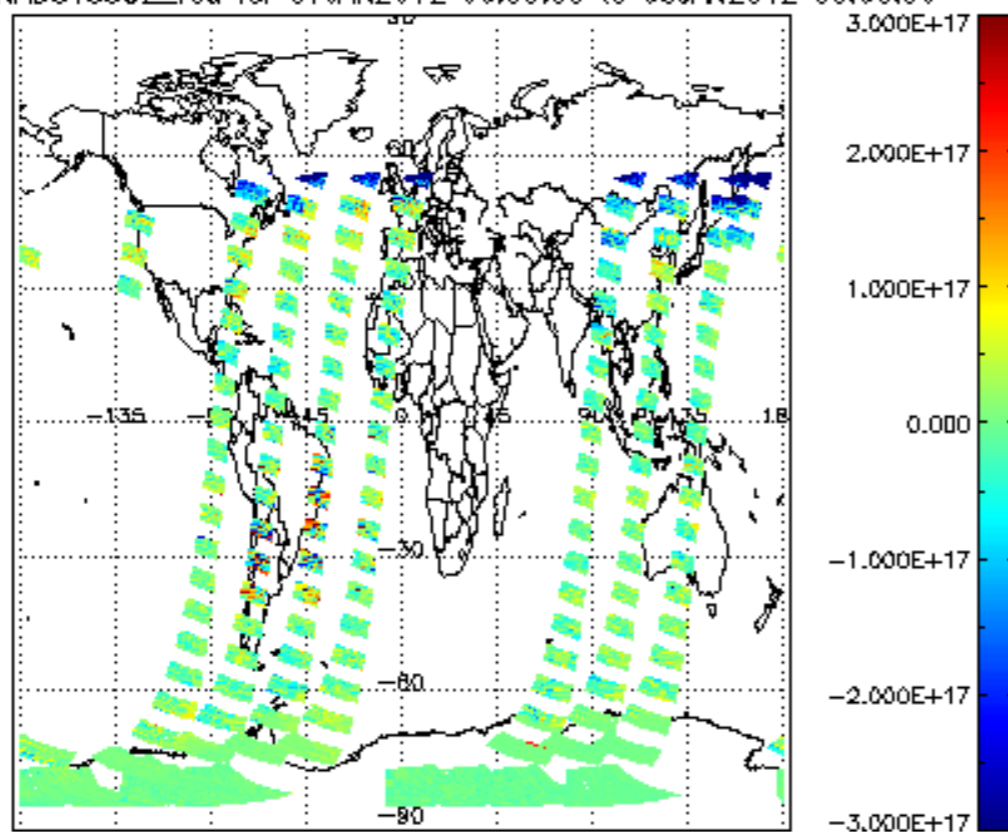


SCIOL2P_NADUV3BRO_amf_cl for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

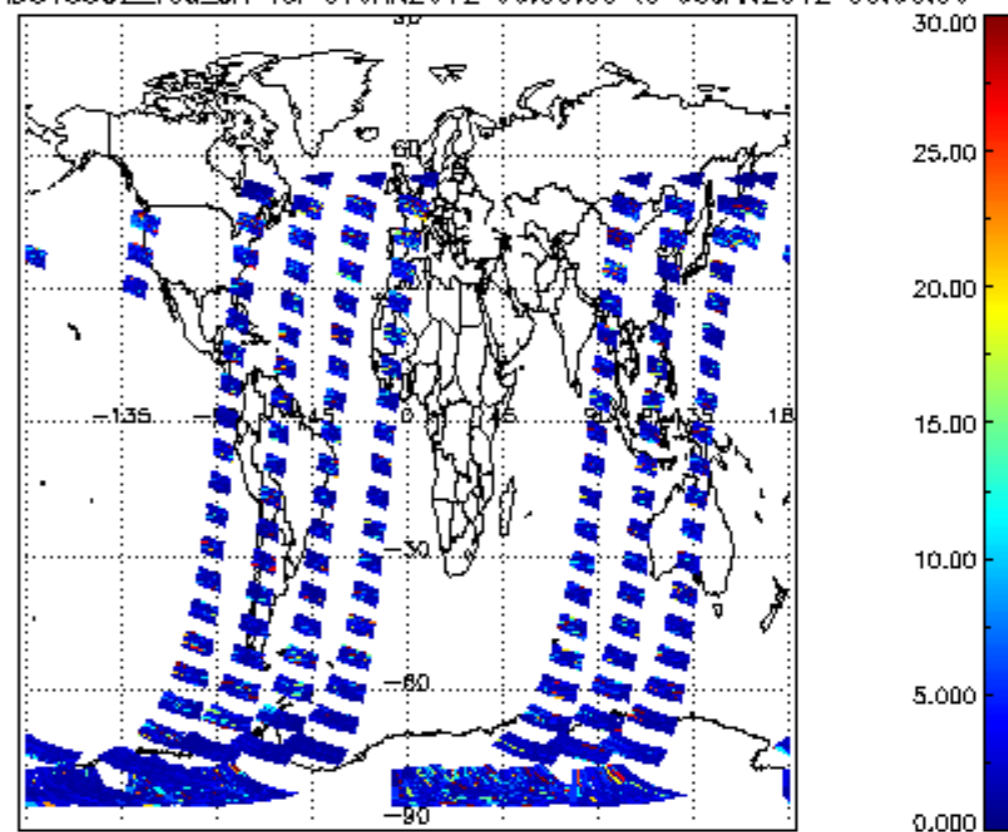




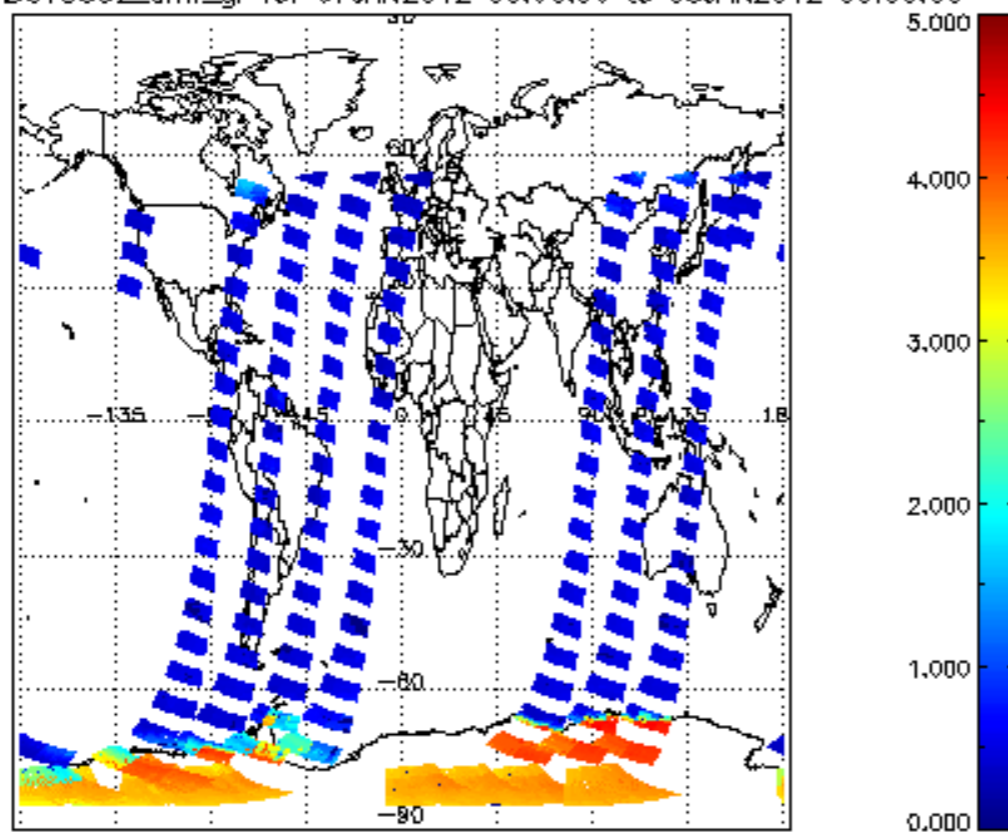
SCIOL2P_NADUV5S02_vcd for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



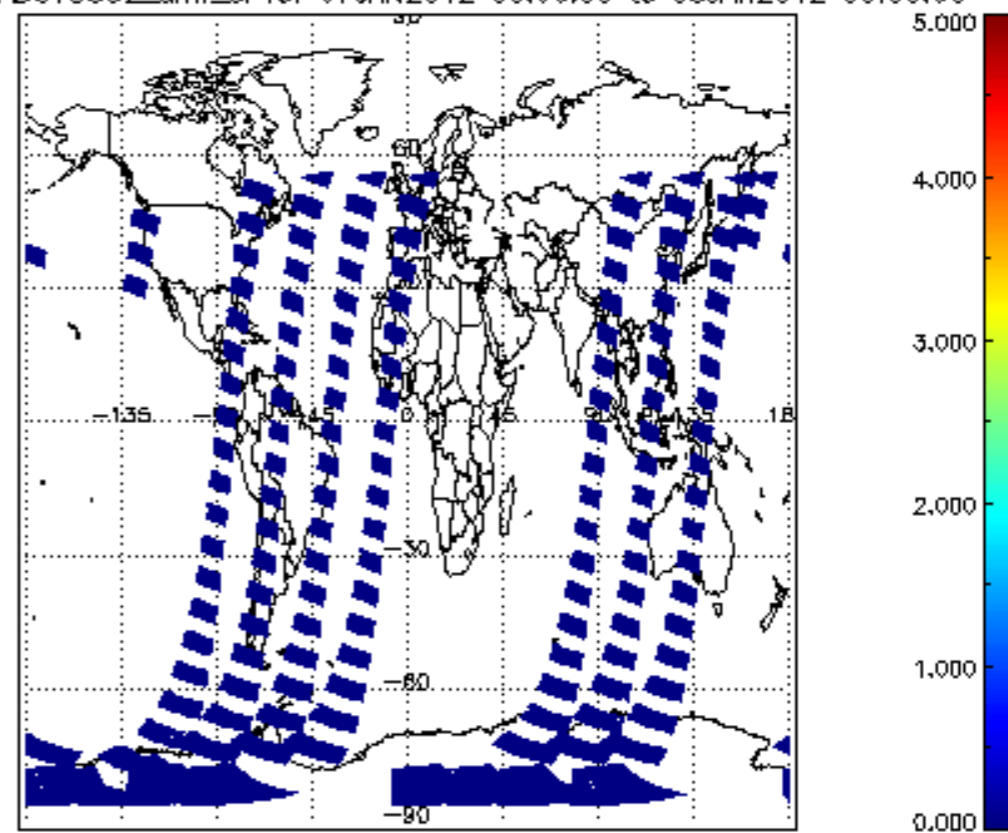
SCIOL2P_NADUV5S02_vcd_err for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

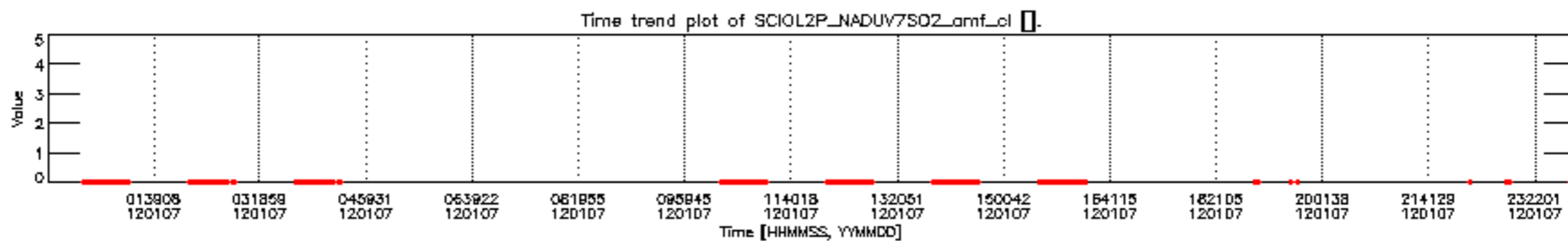
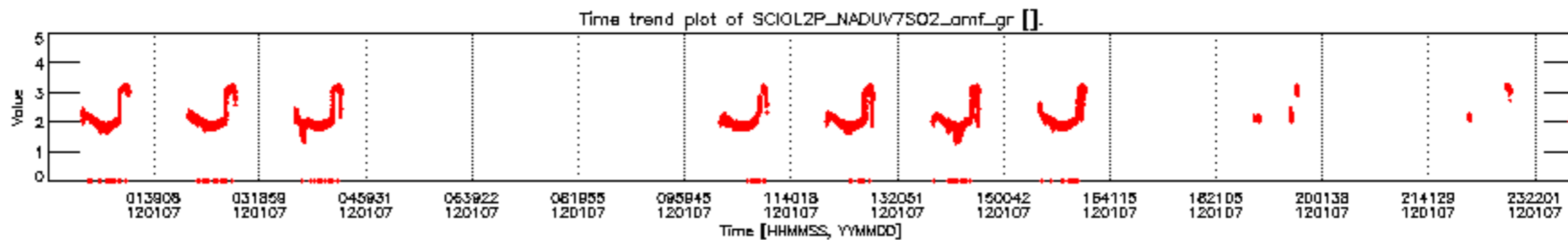
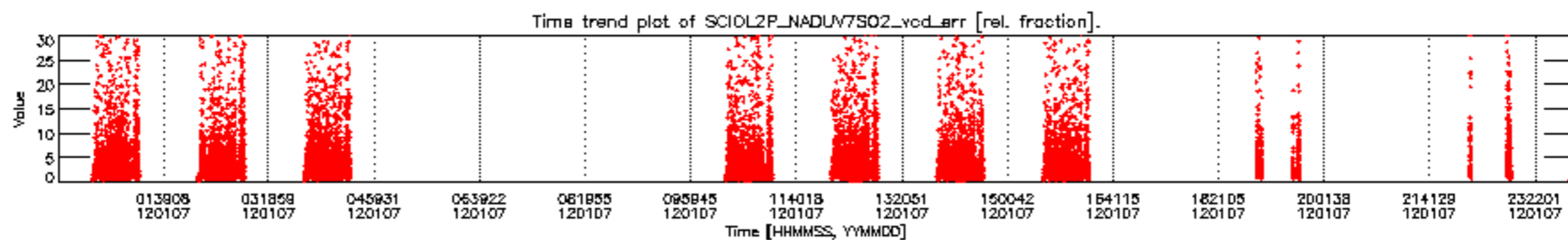
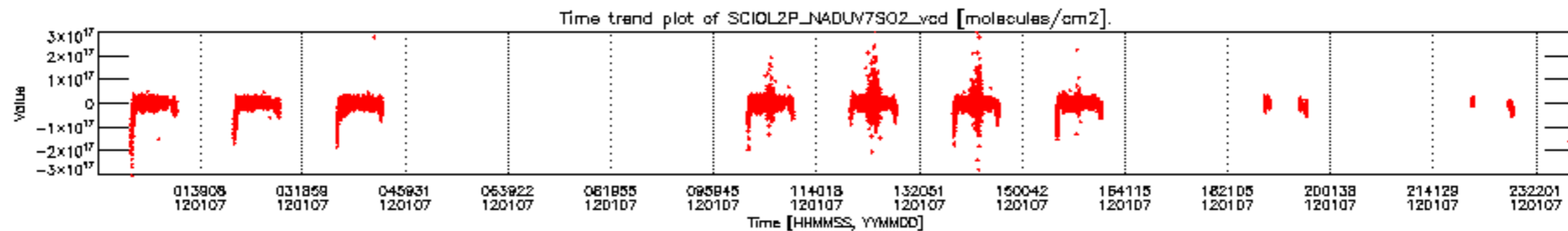


SCIOL2P_NADUV5S02_amf_gr for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

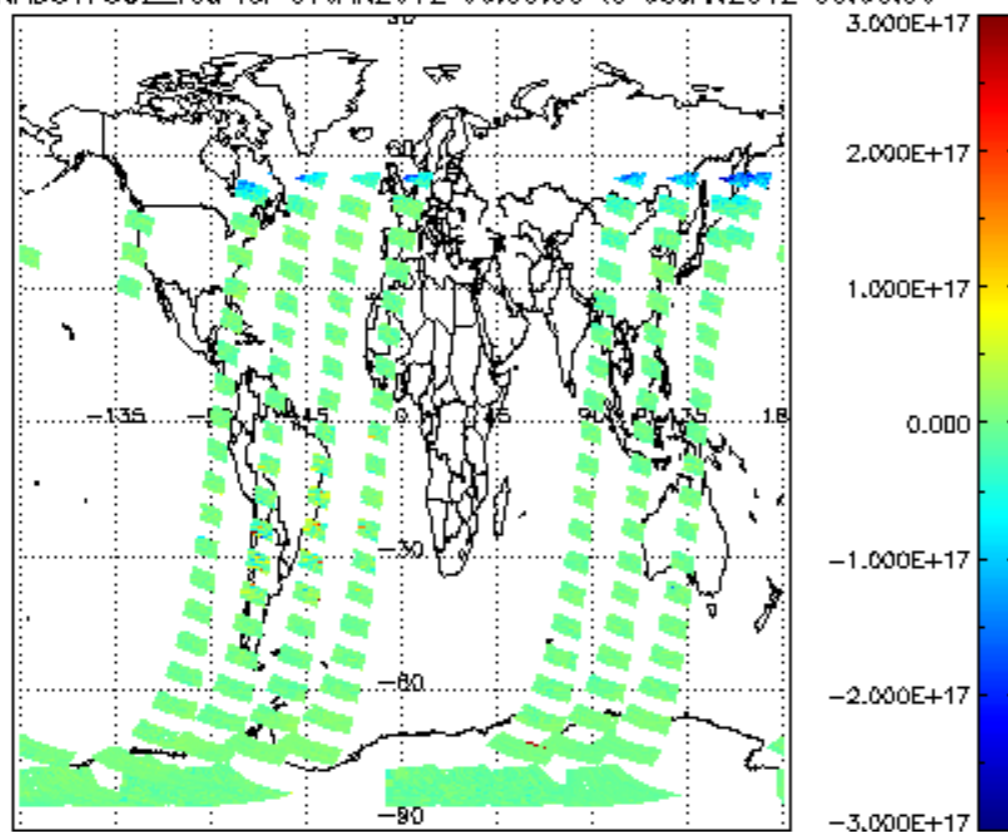


SCIOL2P_NADUV5S02_amf_cl for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

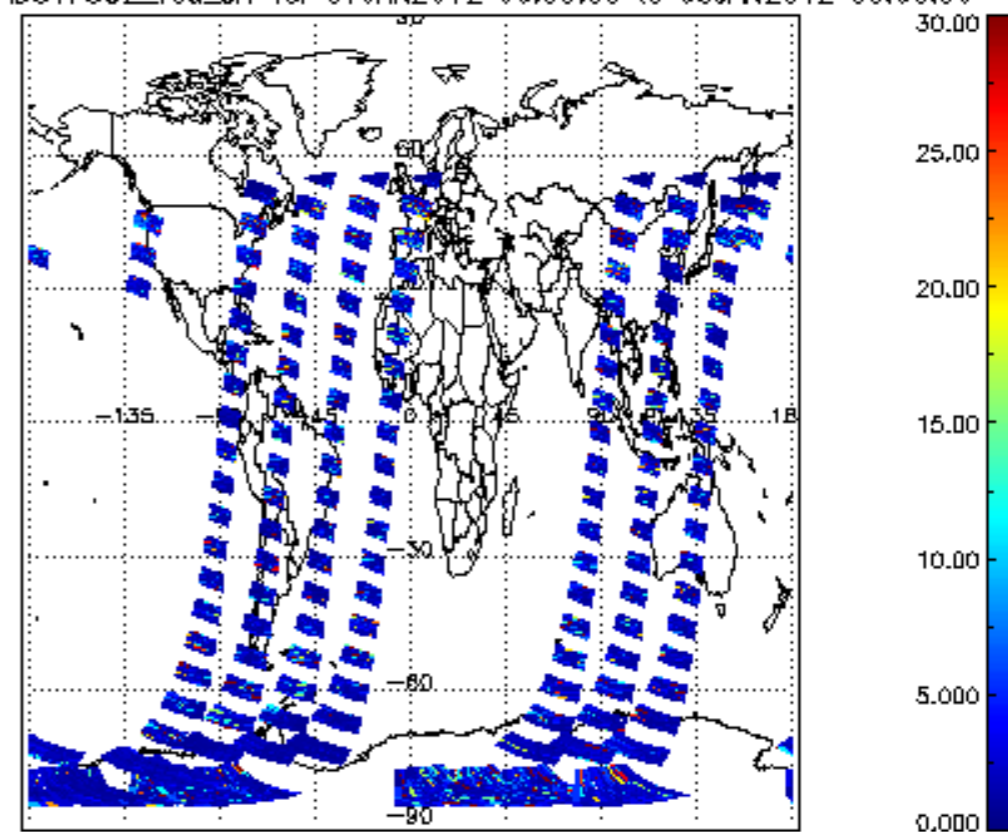




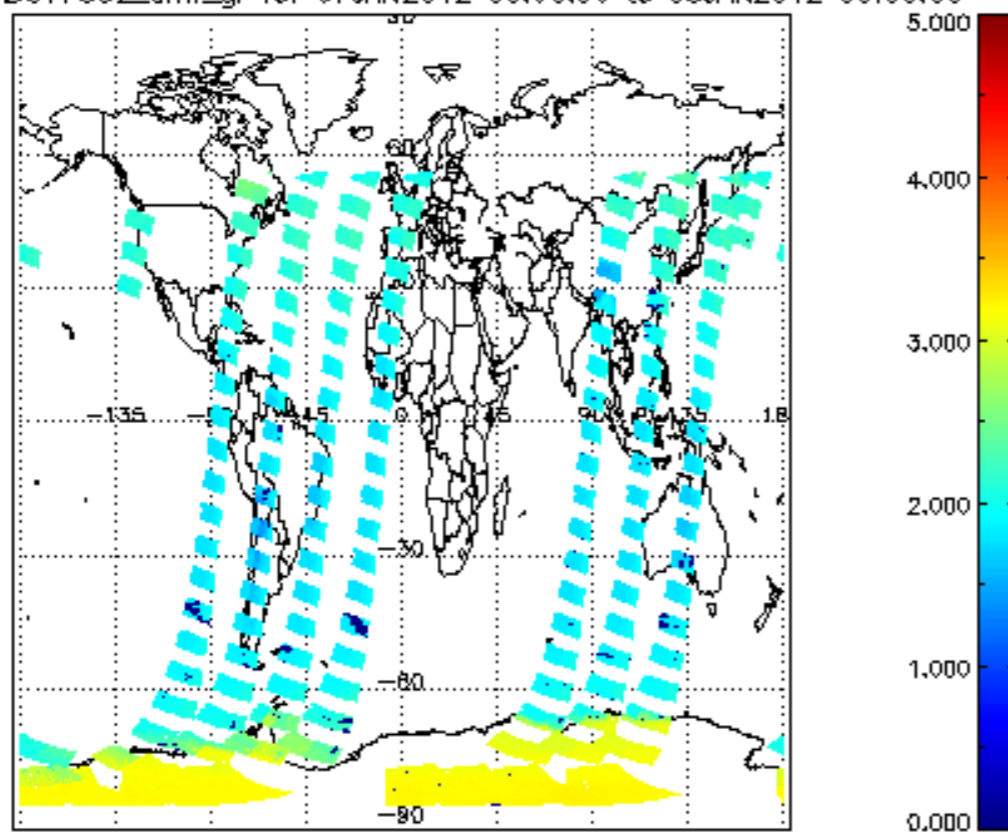
SCIOL2P_NADUV7S02_vcd for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



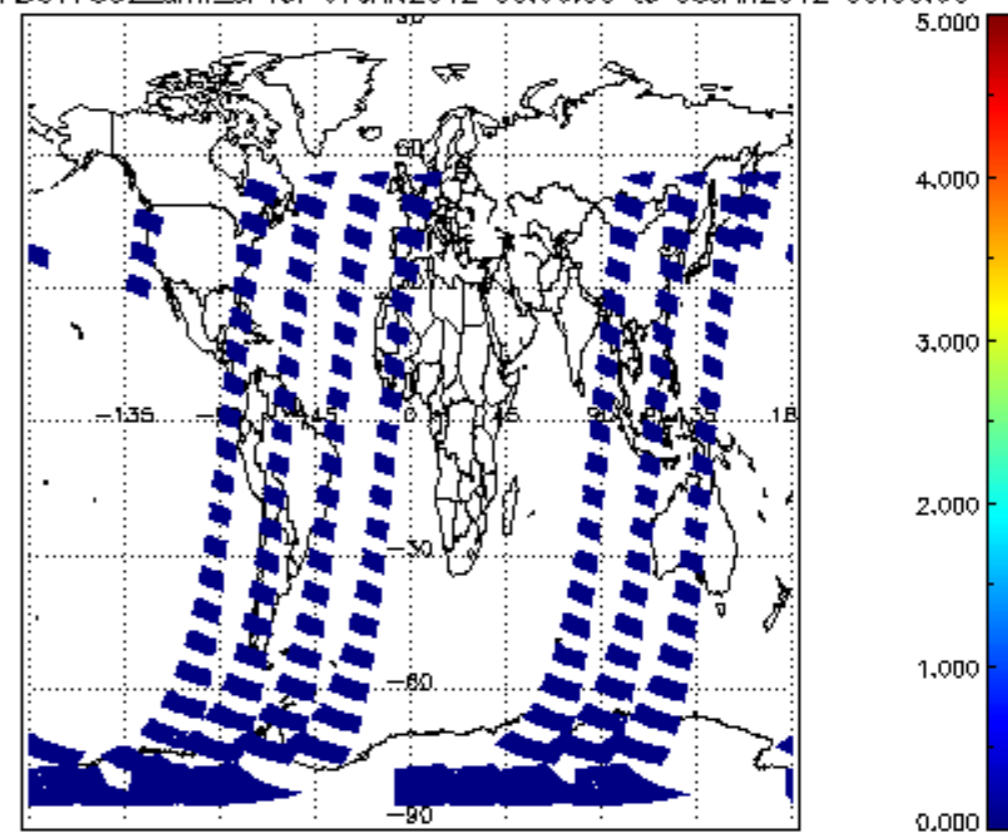
SCIOL2P_NADUV7S02_vcd_err for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

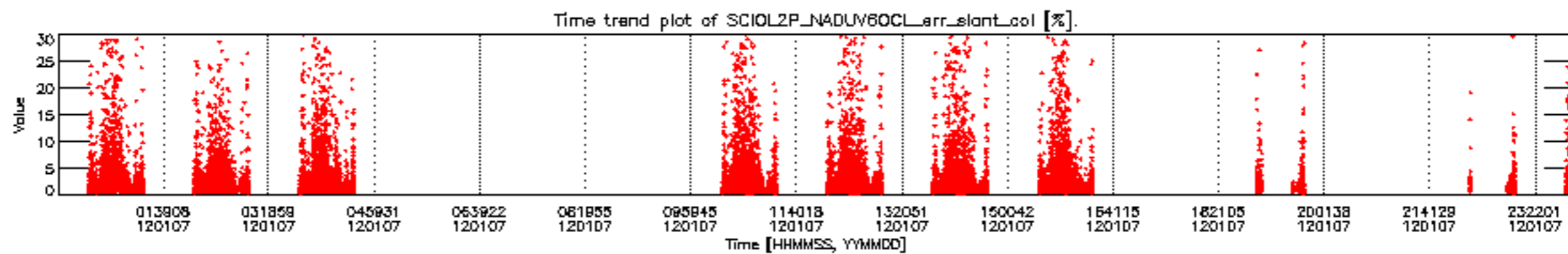
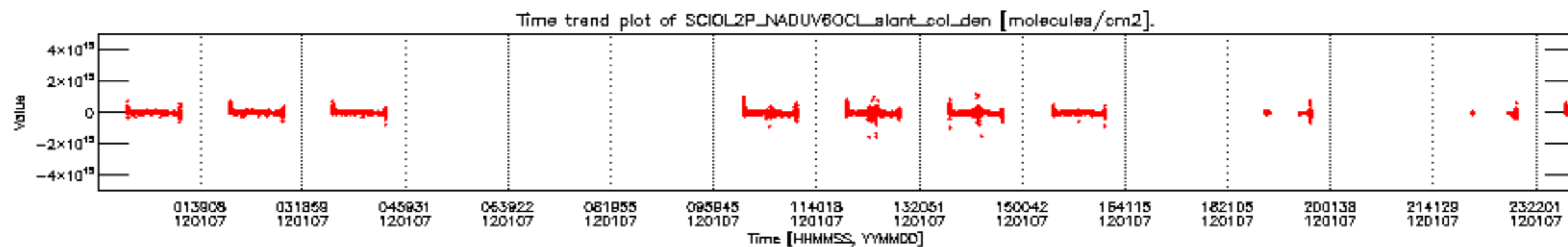


SCIOL2P_NADUV7S02_amf_gr for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

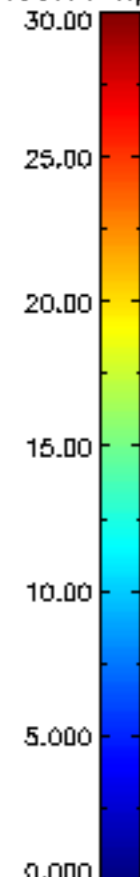
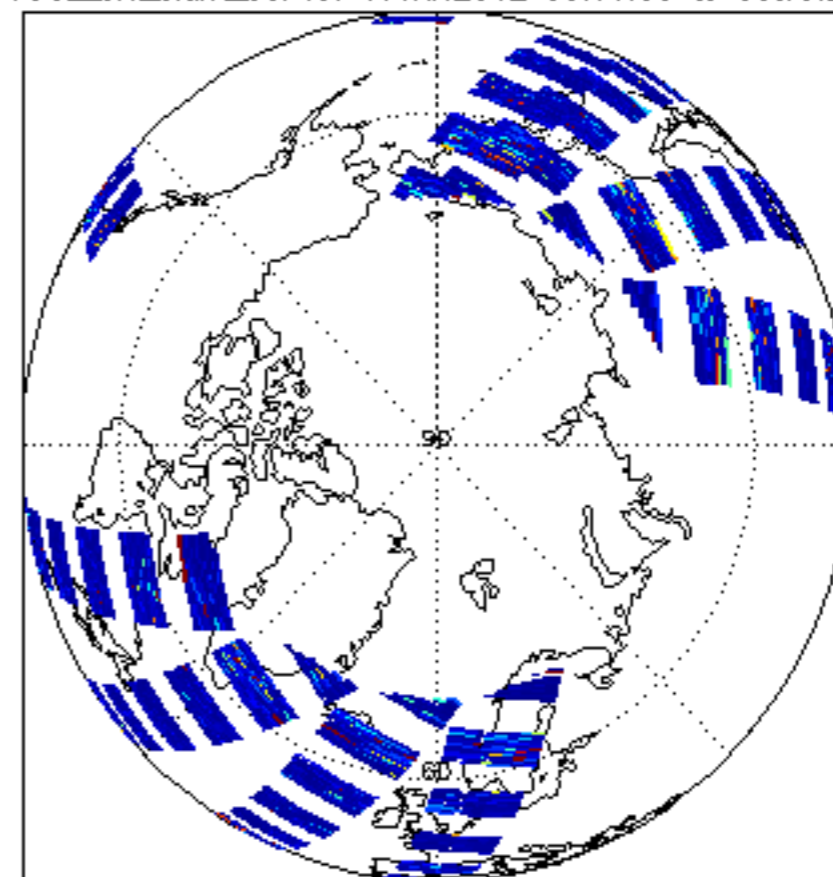
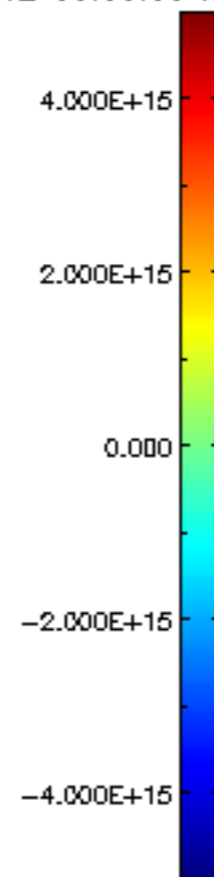
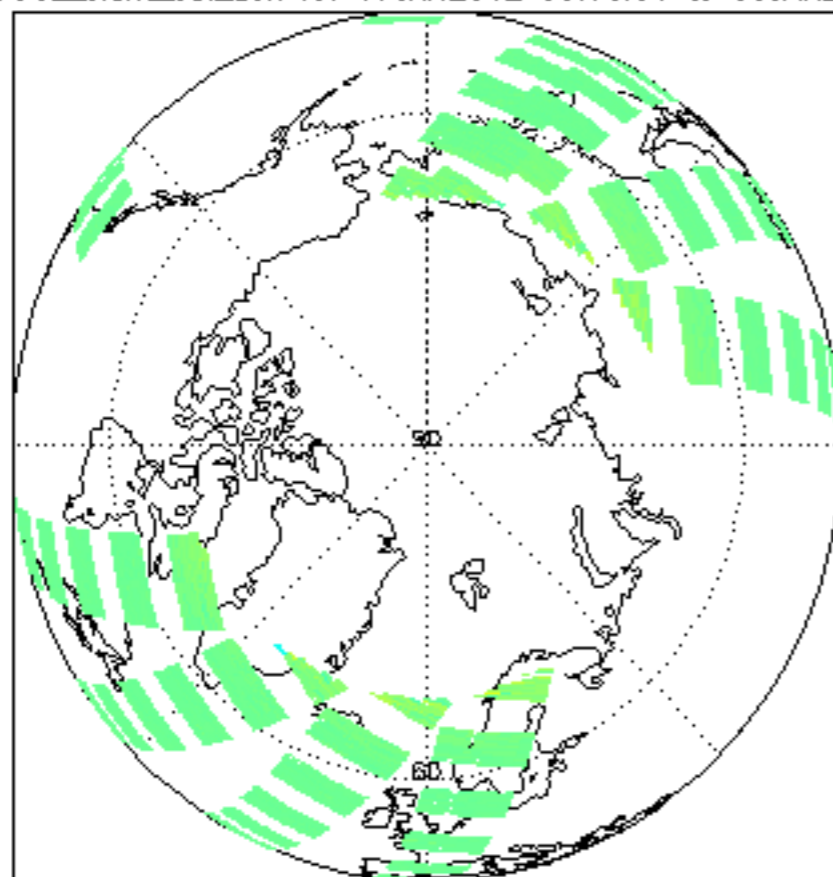


SCIOL2P_NADUV7S02_amf_cl for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

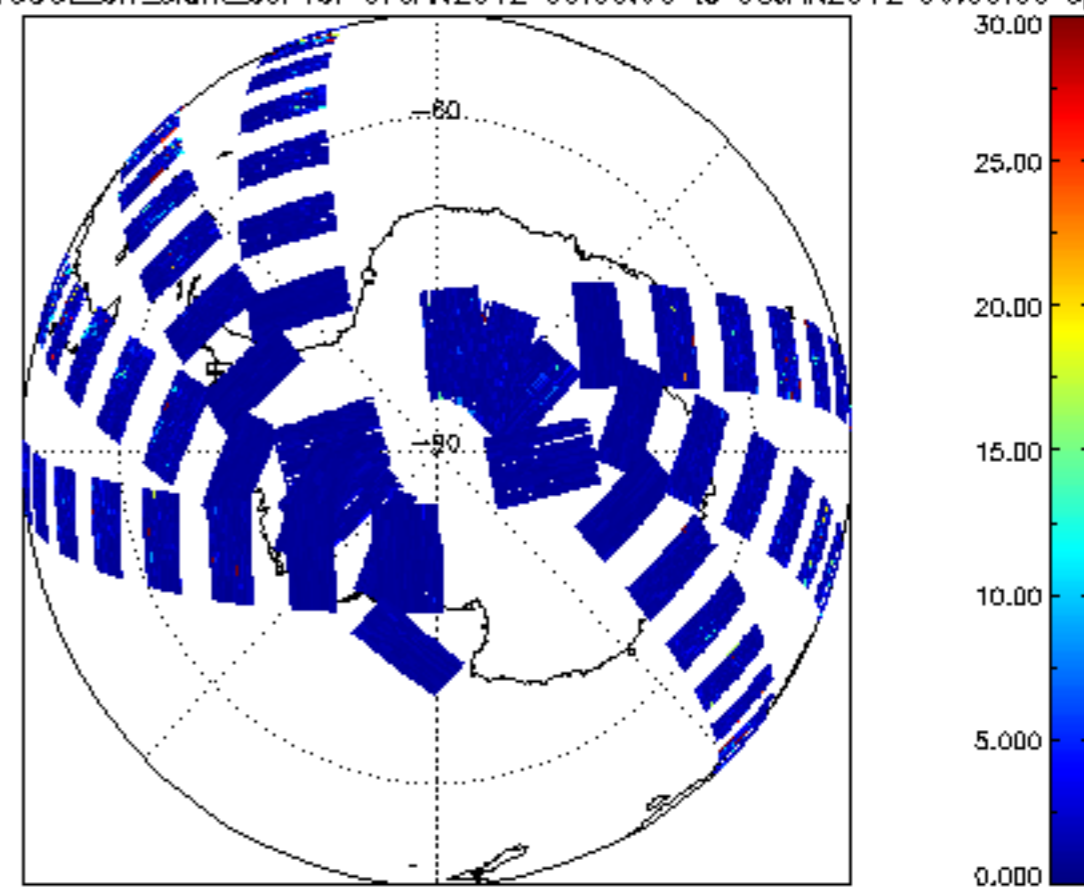
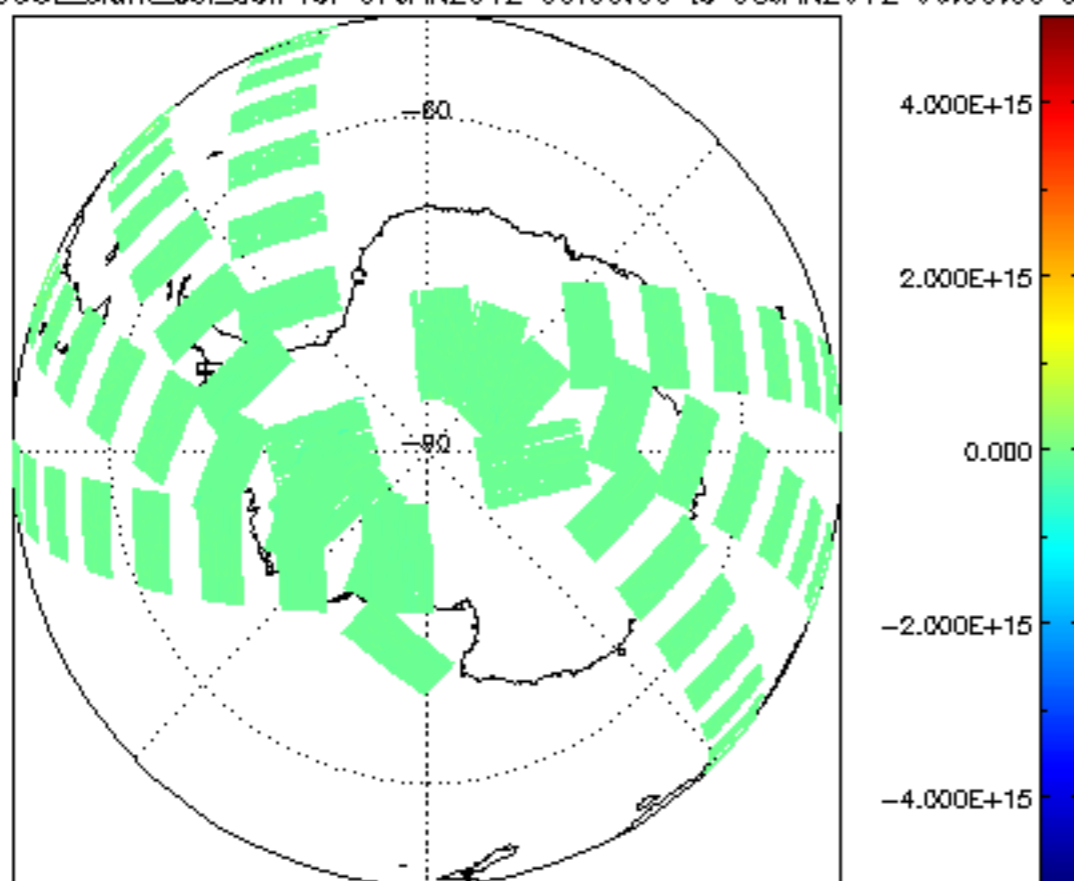


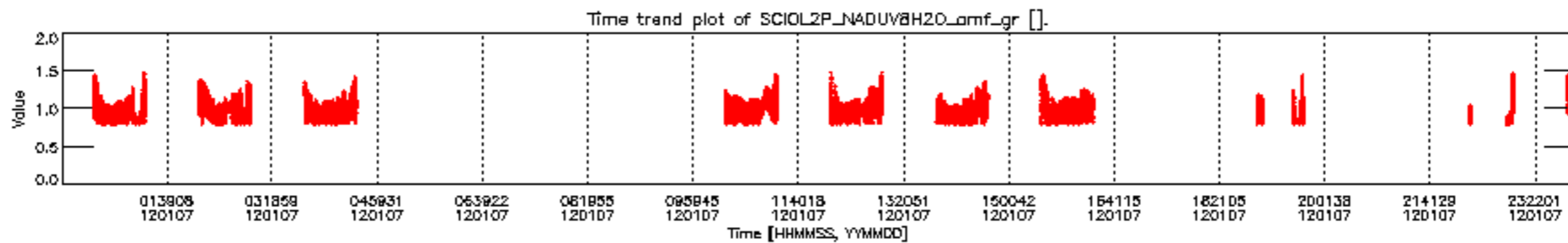
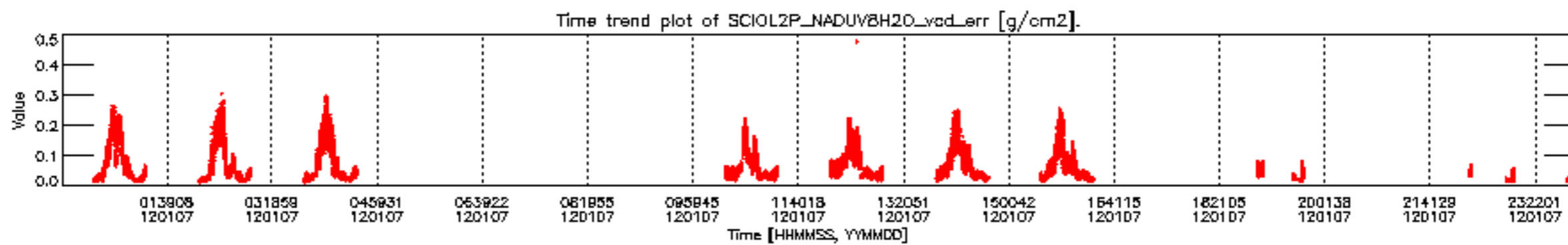
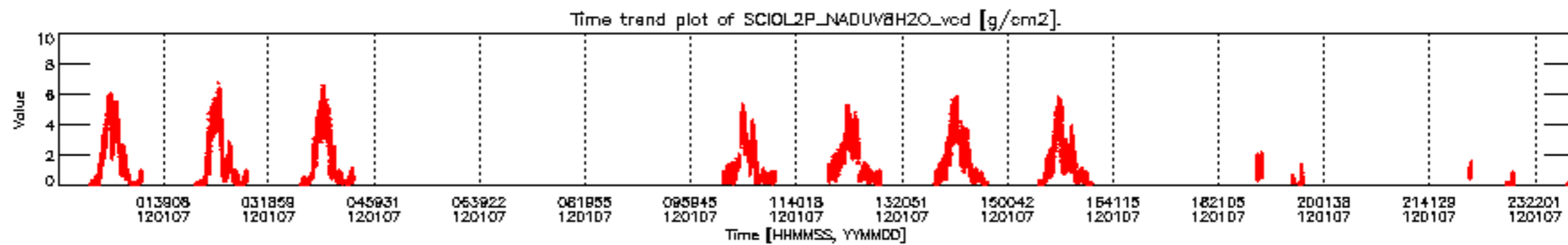


ICIOL2P_NADUV60CL_slant_col_den for 07JAN2012 00:00:00 to 08JAN2012 00:00:00 np;ICIOL2P_NADUV60CL_err_slant_col for 07JAN2012 00:00:00 to 08JAN2012 00:00:00 np

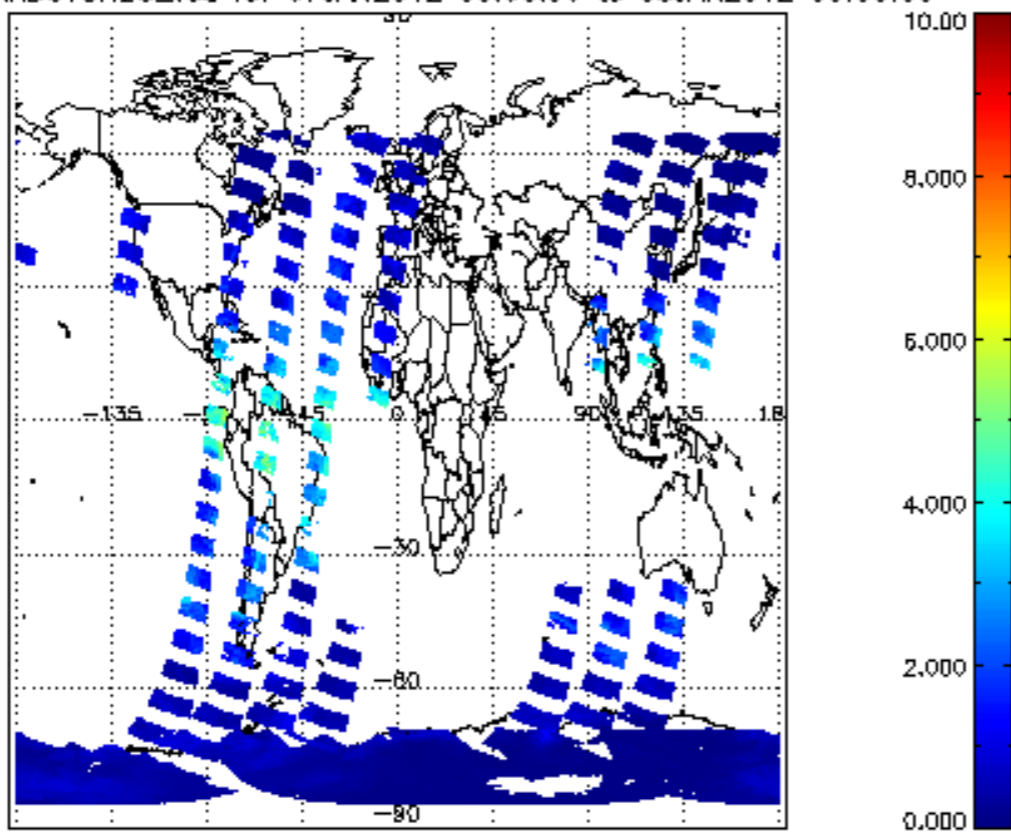


iCIOL2P_NADUV6OCL_slant_col_den for 07JAN2012 00:00:00 to 08JAN2012 00:00:00 sp iCIOL2P_NADUV6OCL_err_slant_col for 07JAN2012 00:00:00 to 08JAN2012 00:00:00 sp

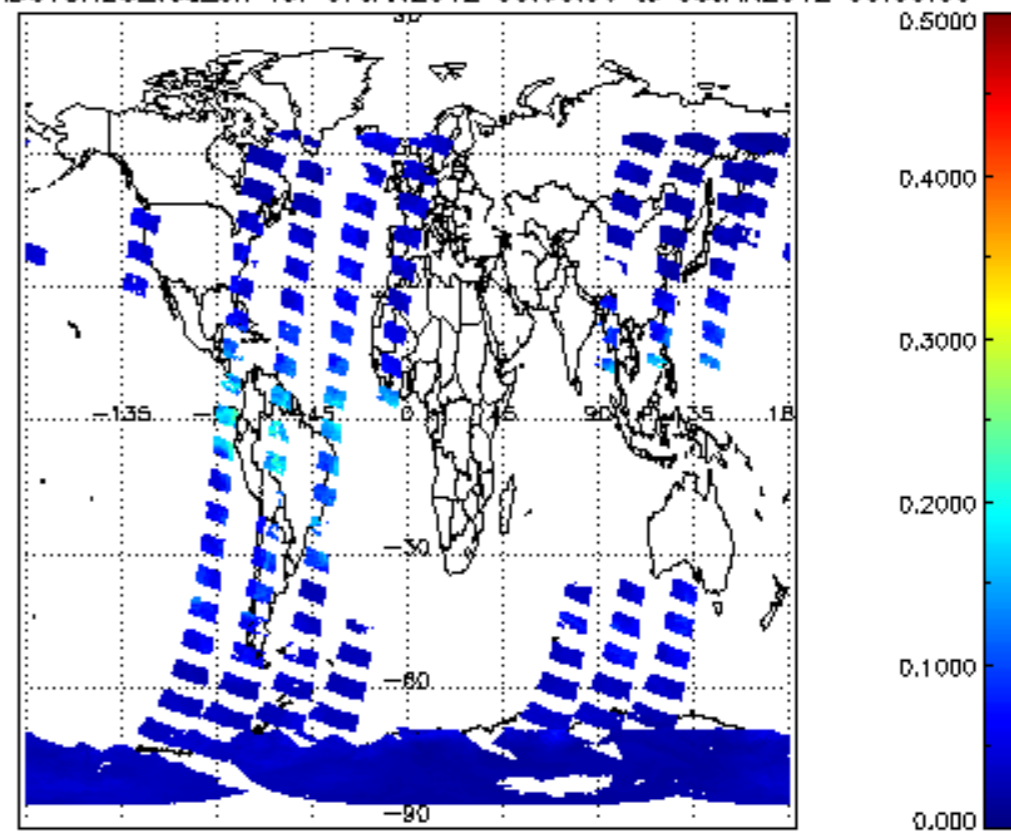




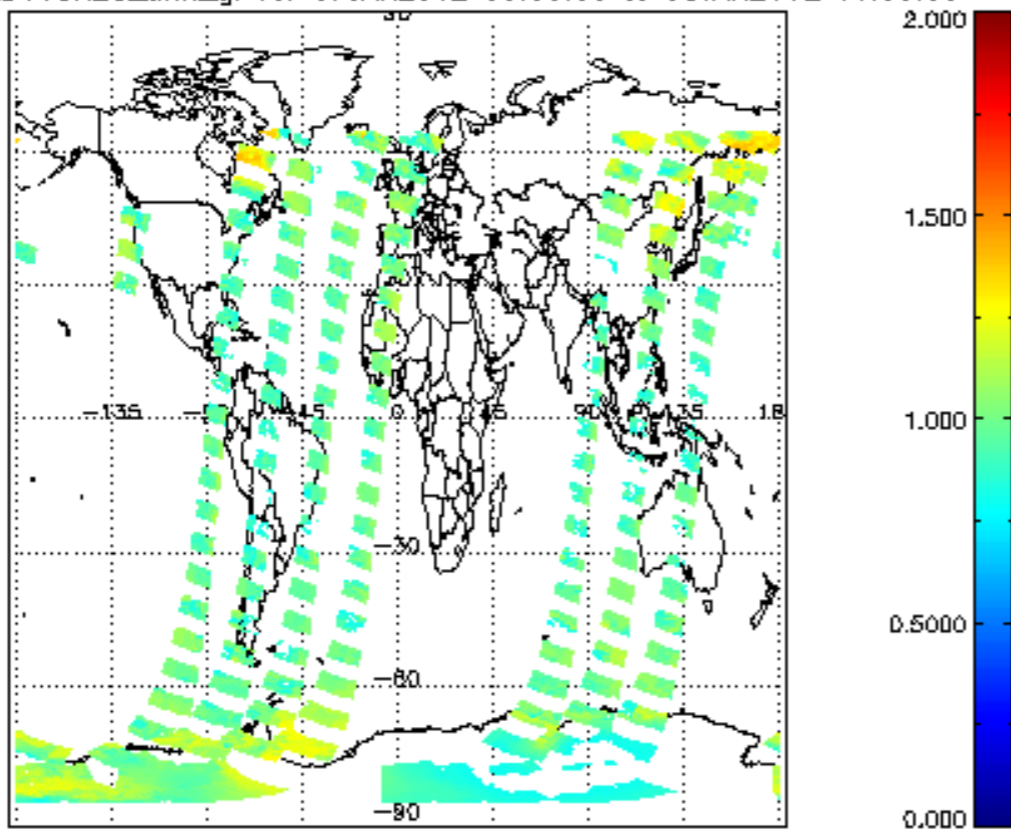
SCIOL2P_NADUV8H20_vcd for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

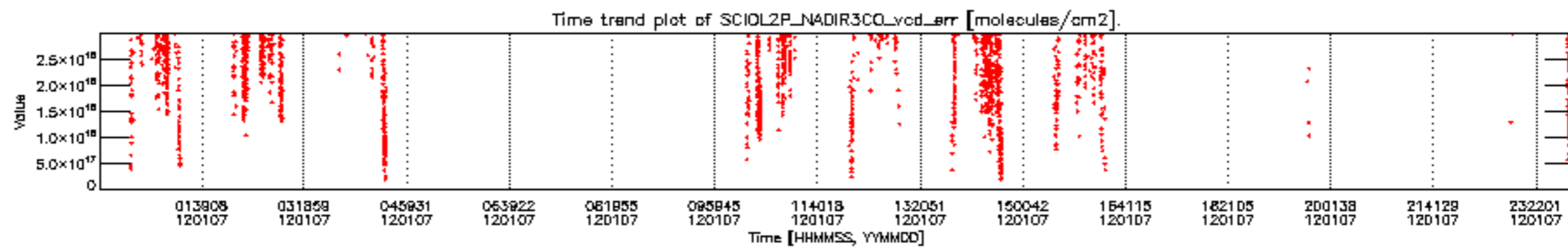
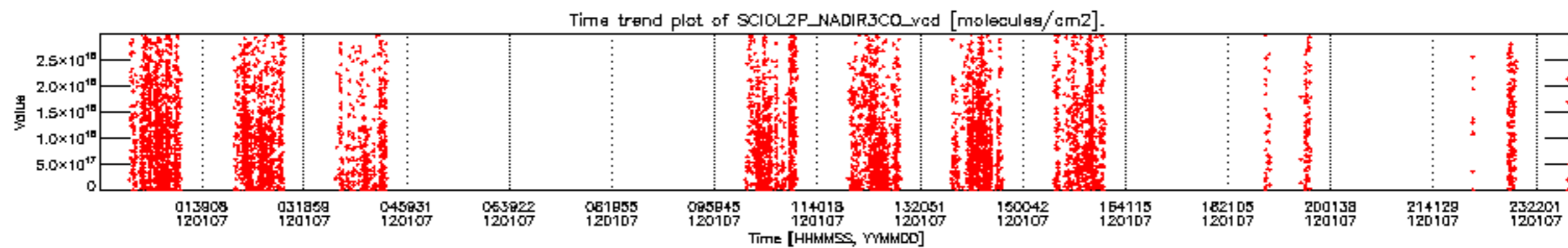


SCIOL2P_NADUV8H20_vcd_err for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

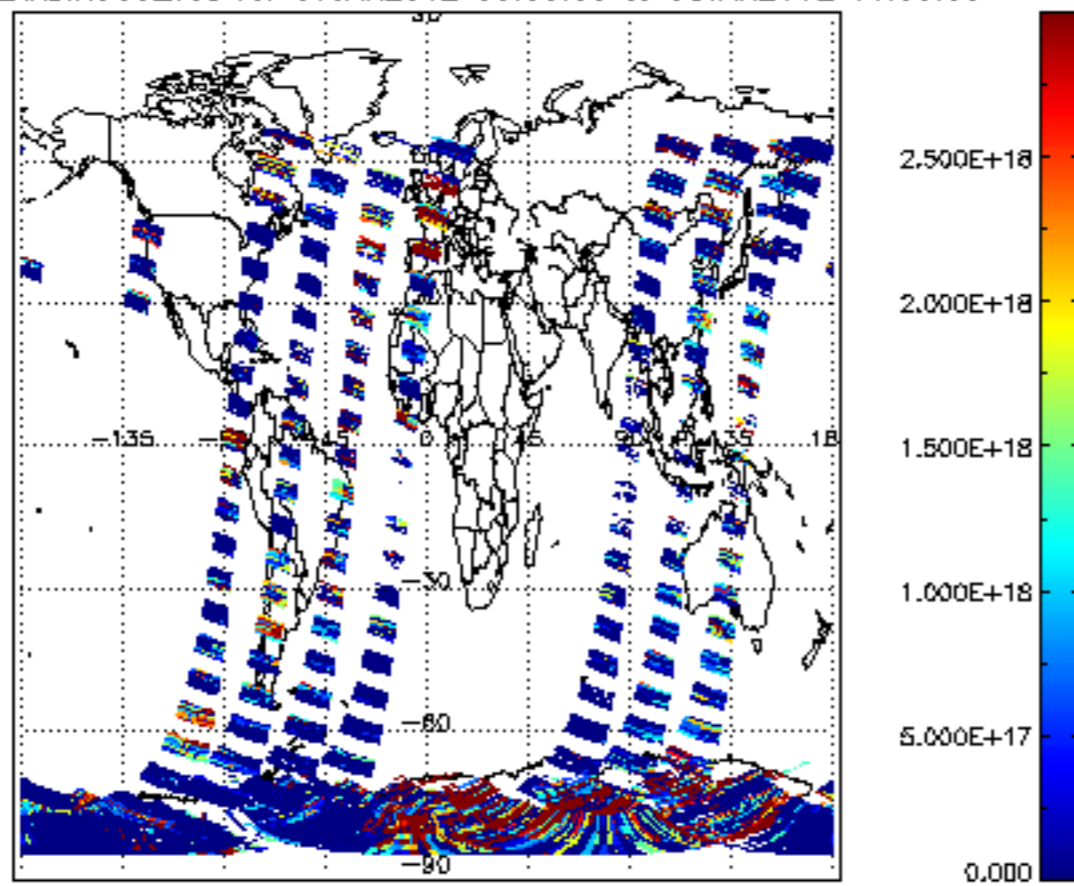


SCIOL2P_NADUV8H20_amf_gr for 07JAN2012 00:00:00 to 08JAN2012 00:00:00

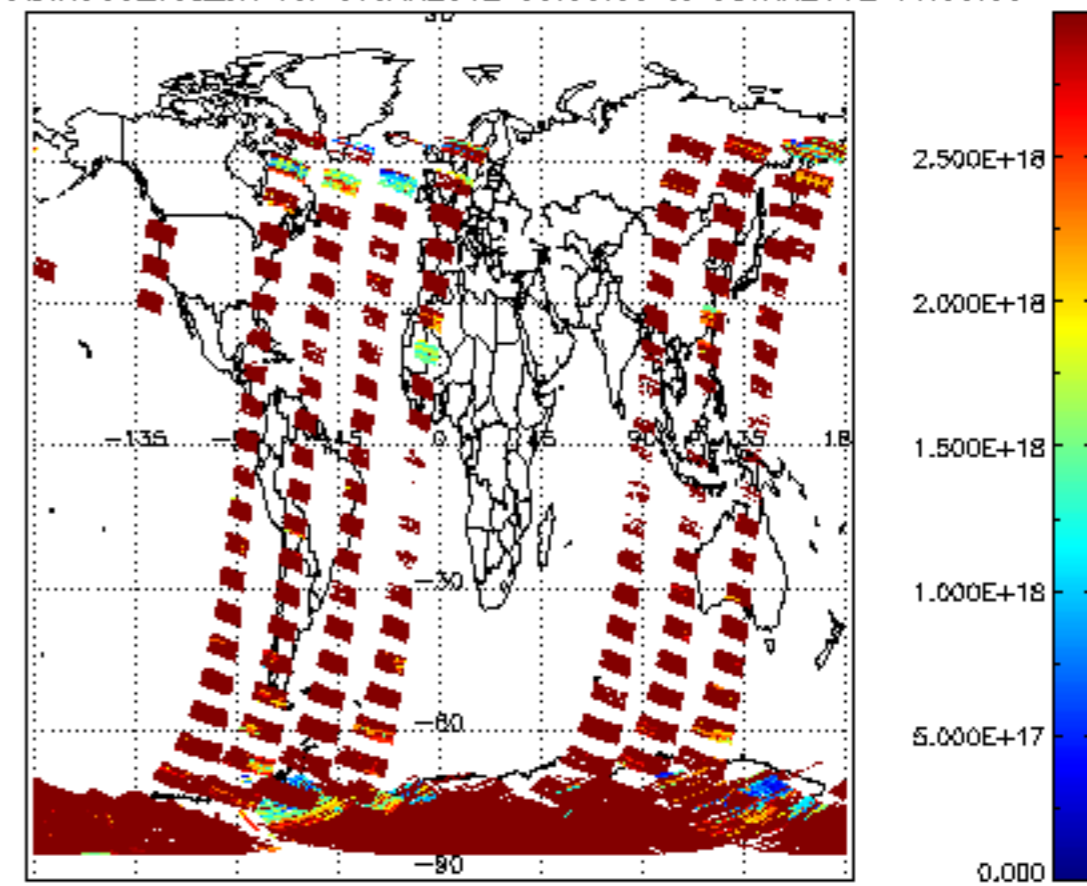




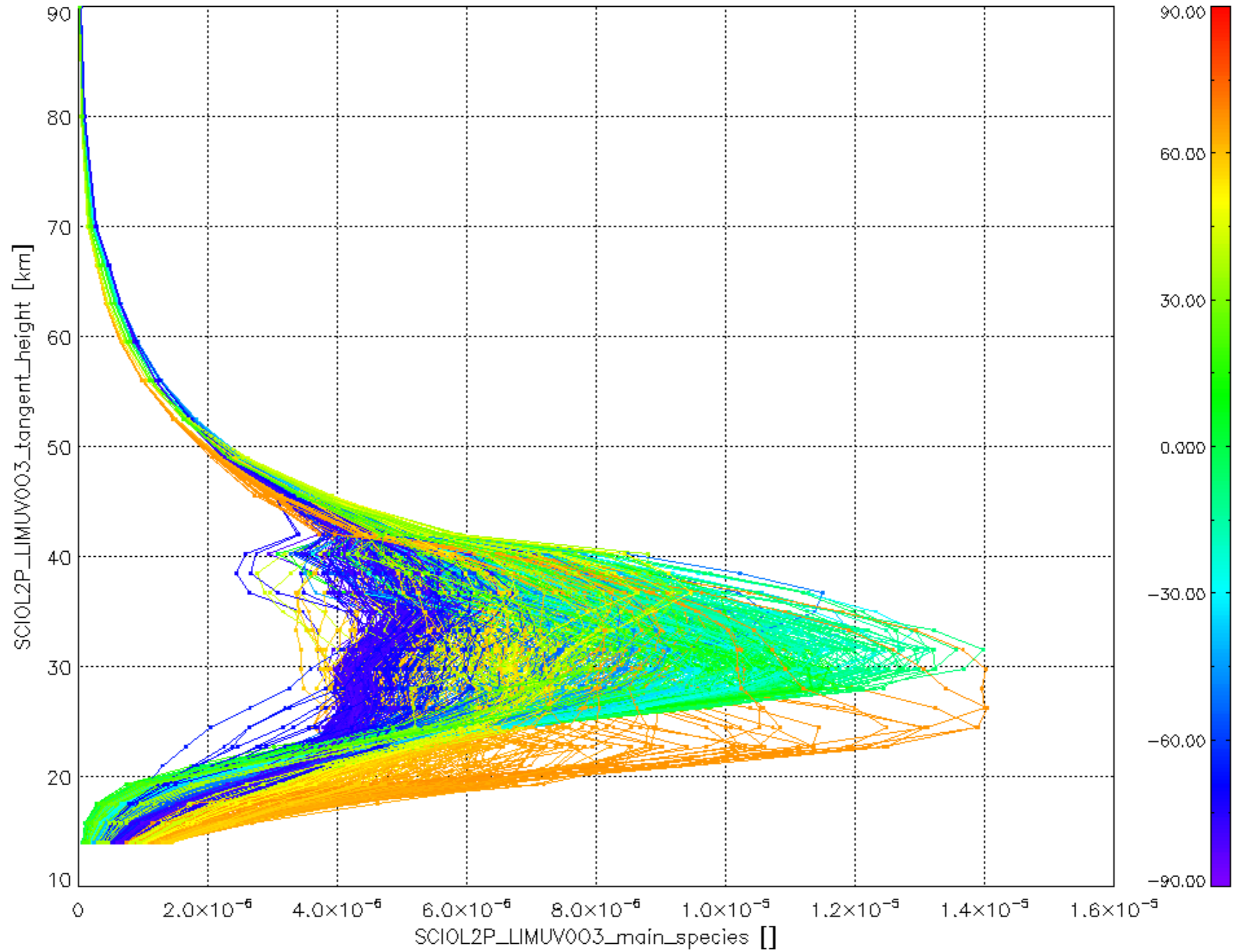
SCIOL2P_NADIR3CO_vcd for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



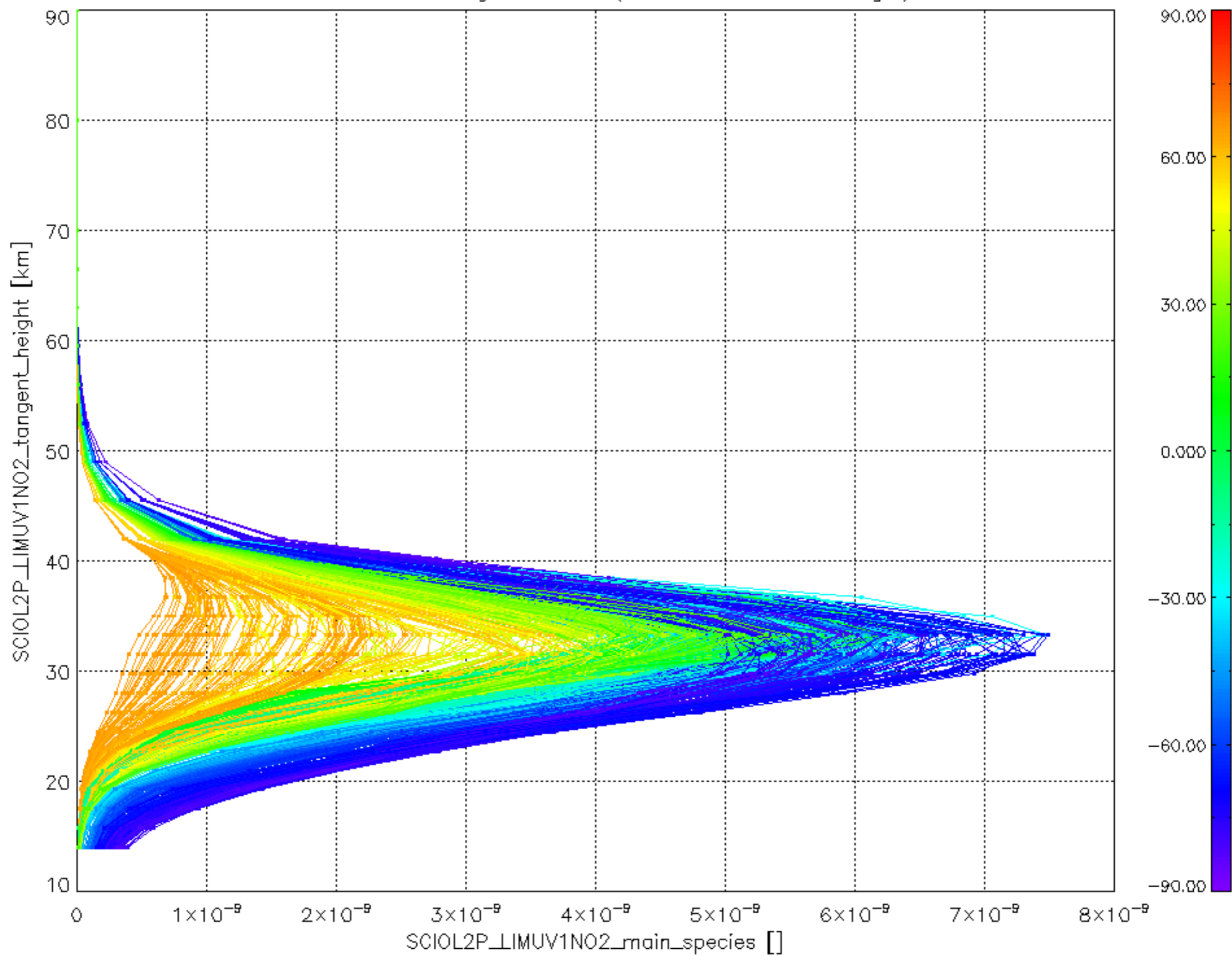
SCIOL2P_NADIR3CO_vcd_err for 07JAN2012 00:00:00 to 08JAN2012 00:00:00



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).

