

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	07MAR2012 03:10:31
Data source version	SCIA-OL/5.02-W
Processing scope for products	23FEB2012 00:00:00 to 24FEB2012 00:00:00
Start time of first product within scope	23FEB2012 11:36:00
Stop time of last product within scope	24FEB2012 00:16:10
Total number of level 2 products	7
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 A20120223_113600_000035303112_00052_52221_3709.N1	23FEB2012 11:36:00	23FEB2012 12:34:50	0	GOOD
1	SCI_OL__2PWDP A20120223_131613_000035163112_00053_52222_3702.N1	23FEB2012 13:16:13	23FEB2012 14:14:50	0	GOOD
2	SCI_OL__2PWDP A20120223_145627_000035303112_00054_52223_3710.N1	23FEB2012 14:56:27	23FEB2012 15:55:17	0	GOOD
3	SCI_OL__2PWDP A20120223_181800_000034713112_00056_52225_3703.N1	23FEB2012 18:18:00	23FEB2012 19:15:52	0	GOOD
4	SCI_OL__2PWDP A20120223_195727_000035163112_00057_52226_3704.N1	23FEB2012 19:57:27	23FEB2012 20:56:03	0	GOOD

5	SCI_OL_2PWDP A20120223_213721_000035303112_00058_52227_3705.N1	23FEB2012 21:37:21	23FEB2012 22:36:11	0	GOOD
6	SCI_OL_2PWDP A20120223_231734_000035163112_00059_52228_3706.N1	23FEB2012 23:17:34	24FEB2012 00:16:10	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: 73580

Total number of cloud data DSRs with good quality flag (=0): 73580 (100.0 %)

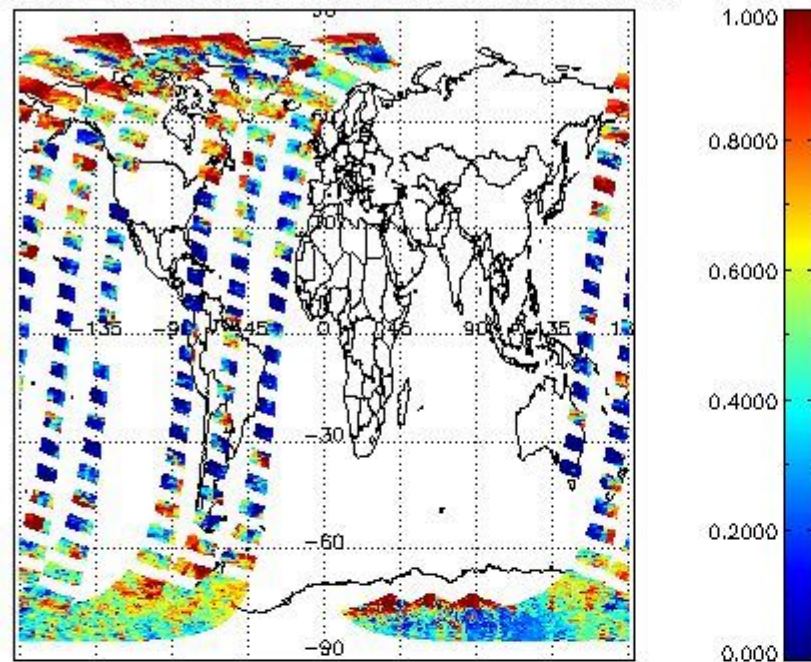
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	73580	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	73580	0.16784	0.12500	0.12500	0.25000	0.059329	s
CL_FRAC	73580	0.45492	0.44626	0.0000	1.0000	0.31832	
CL_FRAC_ERR	73580	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	73580	5.3710	4.0000	4.0000	8.0000	1.8985	
PMD_READ_CL[0]	73580	0.54638	0.0000	0.0000	8.0000	1.4326	-
PMD_READ_CL[1]	73580	1.1964	0.0000	0.0000	8.0000	2.4861	-
CL_TOP_HEIGHT	61114	3.9605	2.4730	0.0000	17.000	3.9967	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	61114	58.330	56.188	0.0000	101.00	40.490	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	73580	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	73580	11001011	11000100	11000000	11100000	3351.7	
AERO_ABSO_IND	73580	0.063227	0.0000	0.0000	3.0179	0.20886	
AERO_IND_DIAG	73580	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	73580	01011000	00000000	00000000	11000000	24491.	

Time and geolocation plots:

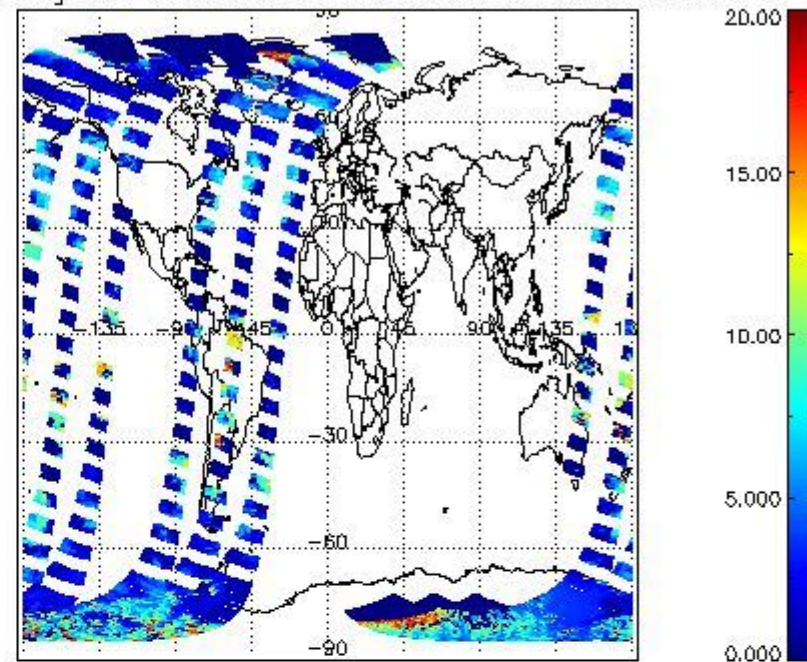
Plots are available for the following parameters:

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

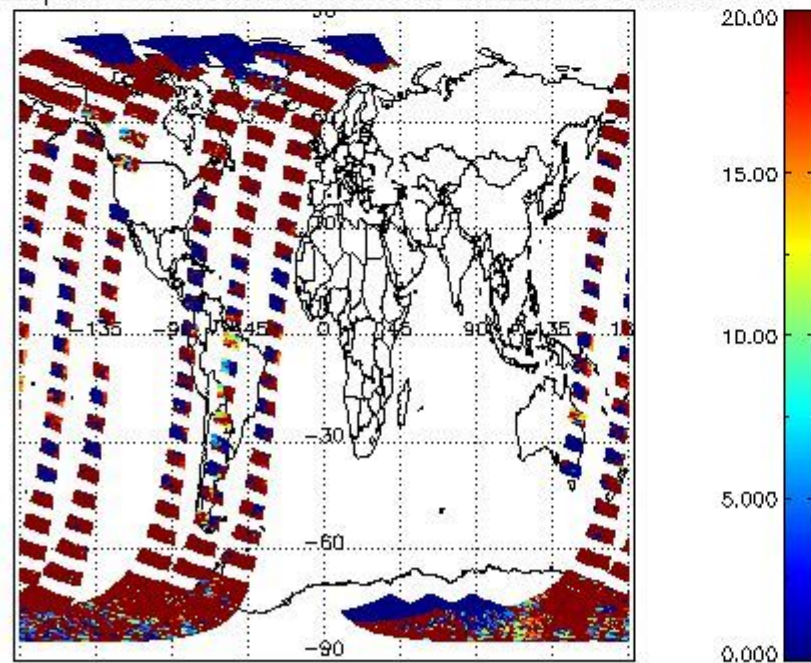
cL_frac for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



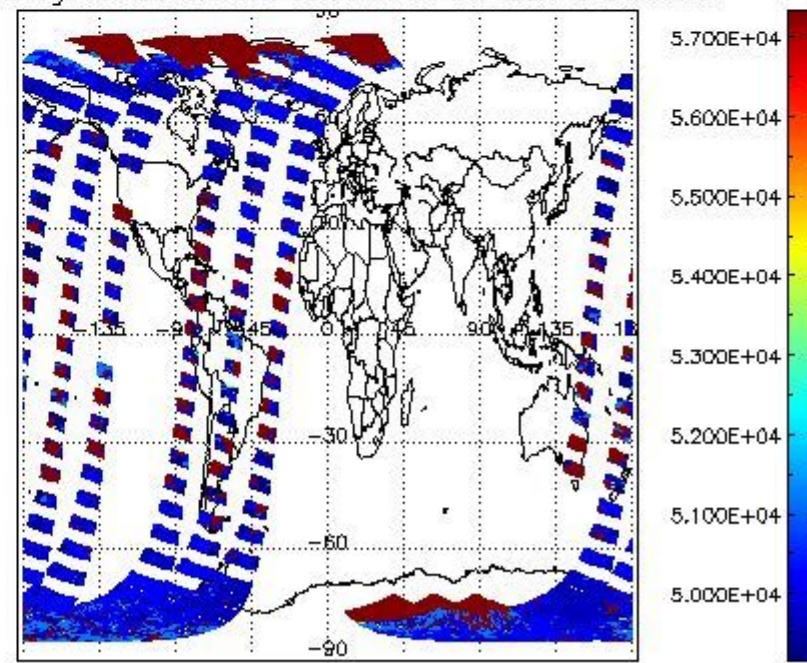
cL_top_height for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



cL_opt_depth for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



cloud_flags for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



2.2.2 Nadir

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

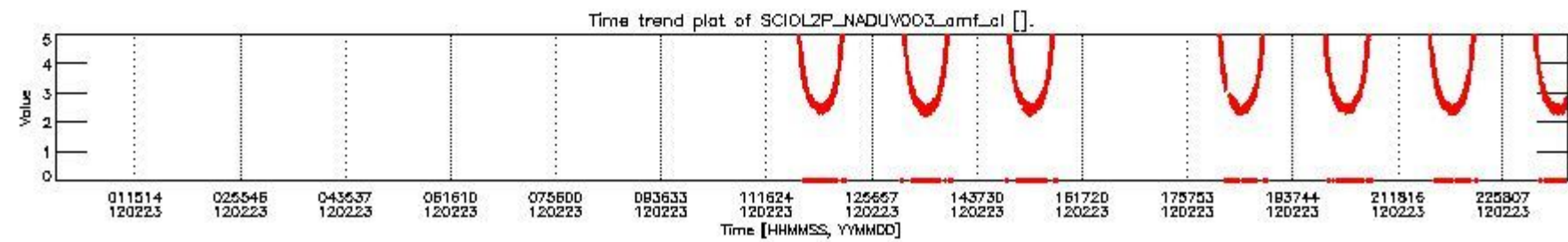
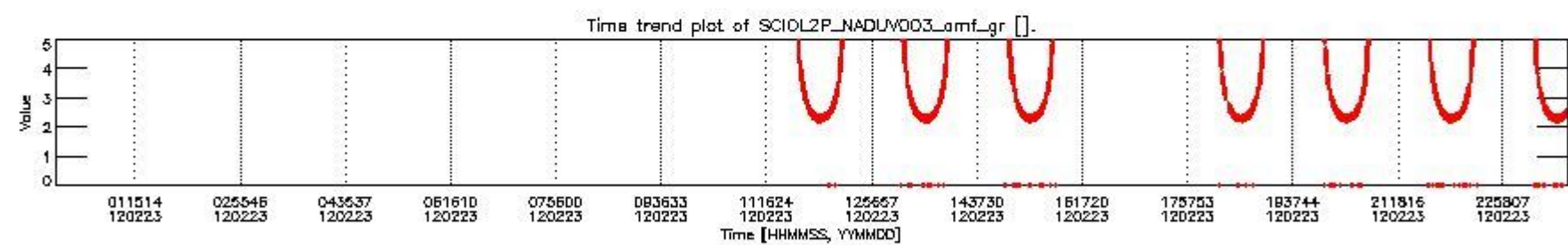
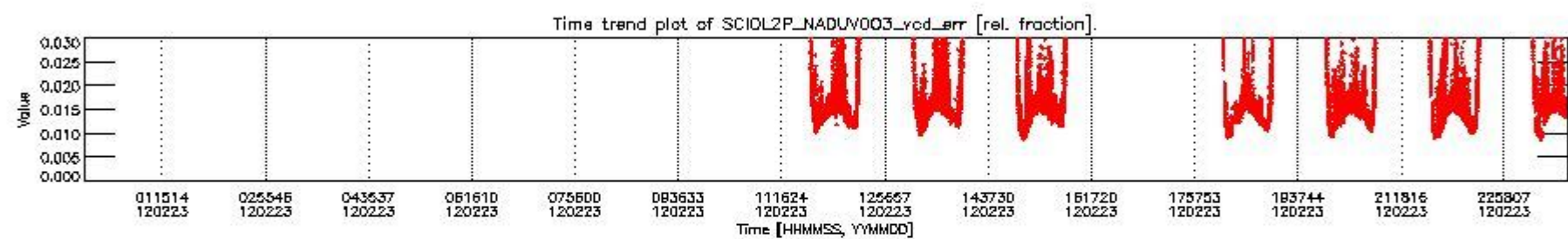
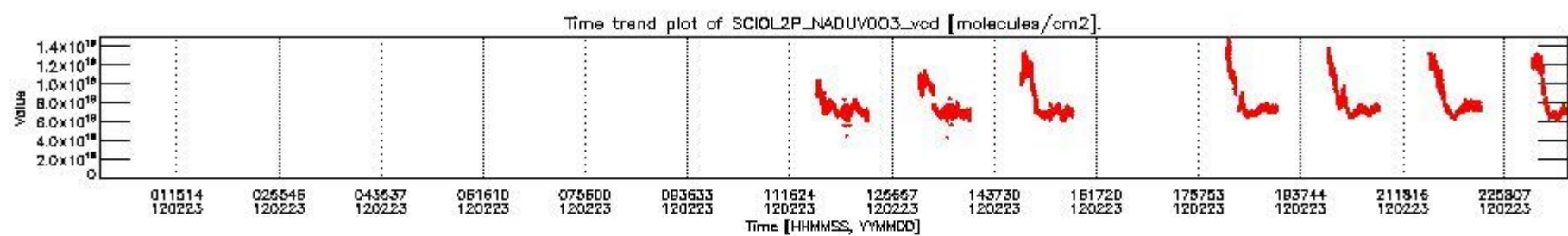
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

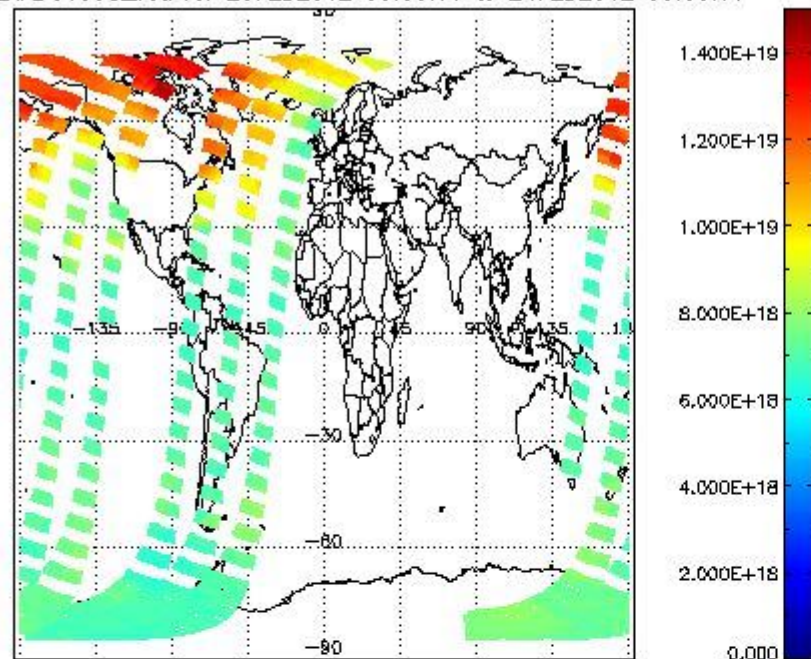
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

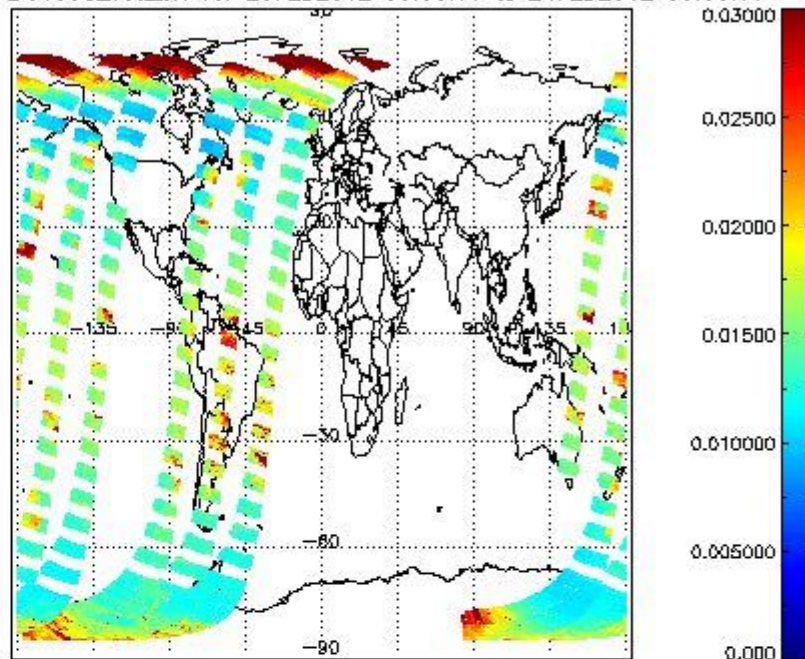
2.2.2.1 O3 (UV0)



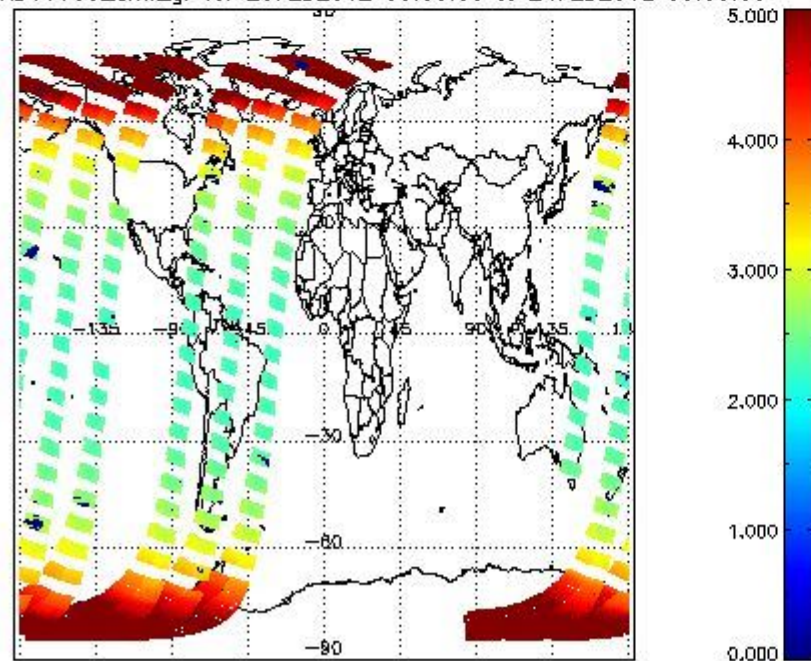
SCIOL2P_NADUV003_vcd for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



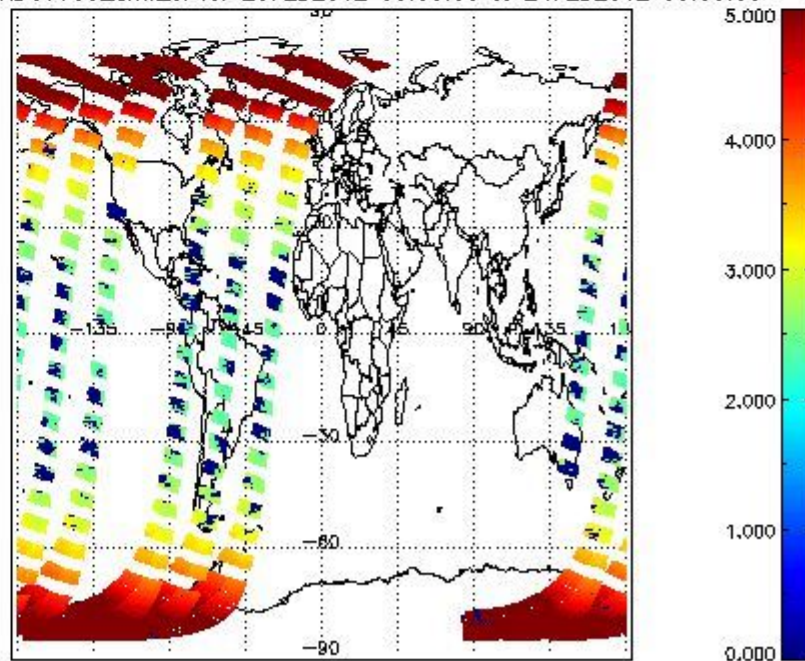
SCIOL2P_NADUV003_vcd_err for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



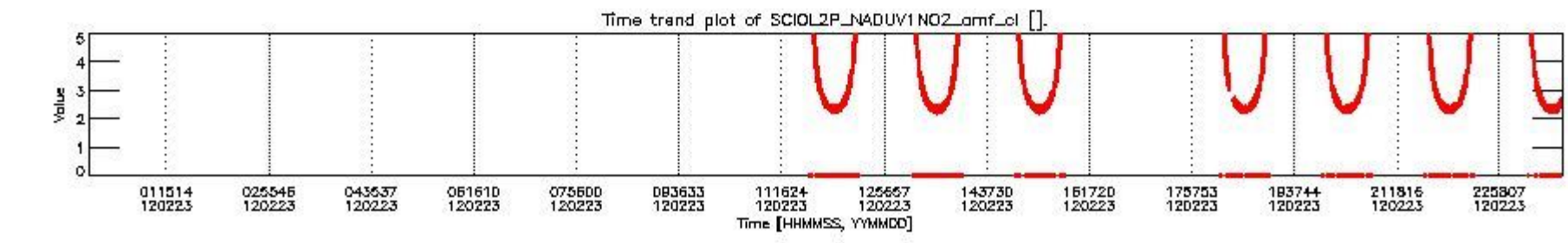
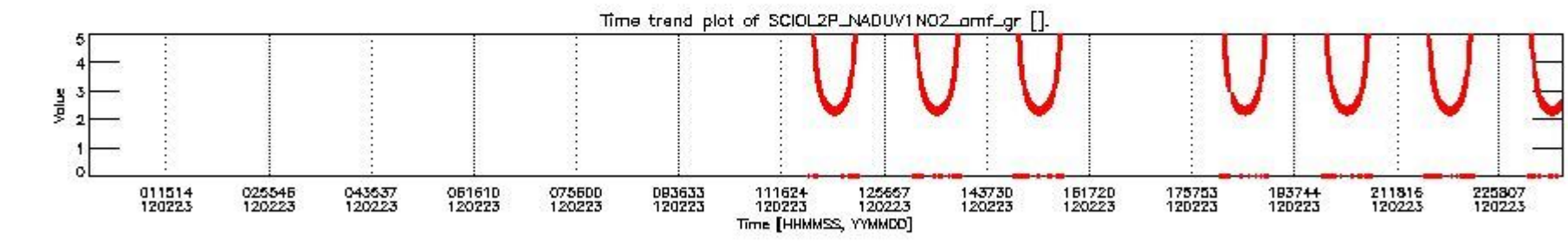
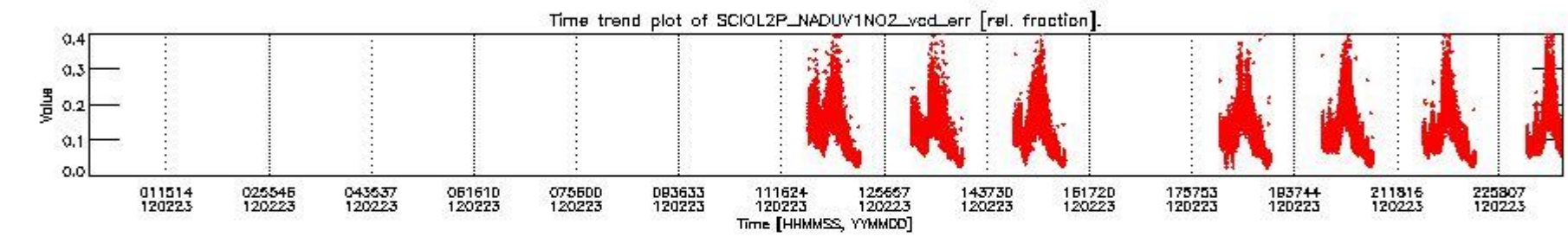
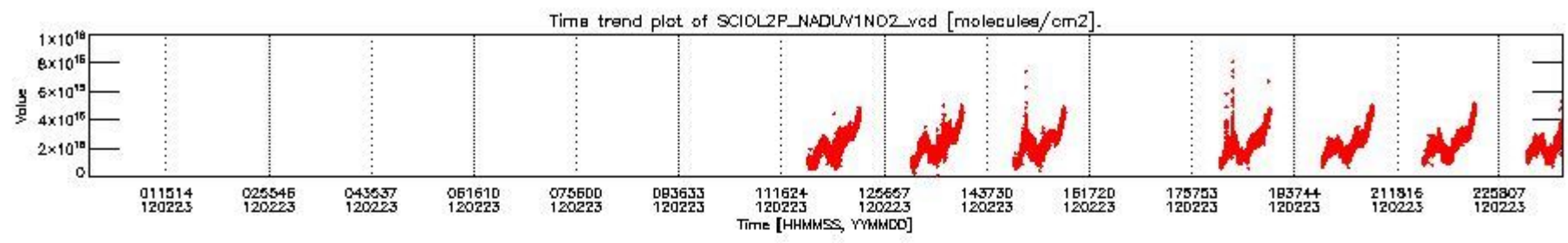
SCIOL2P_NADUV003_amf_gr for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



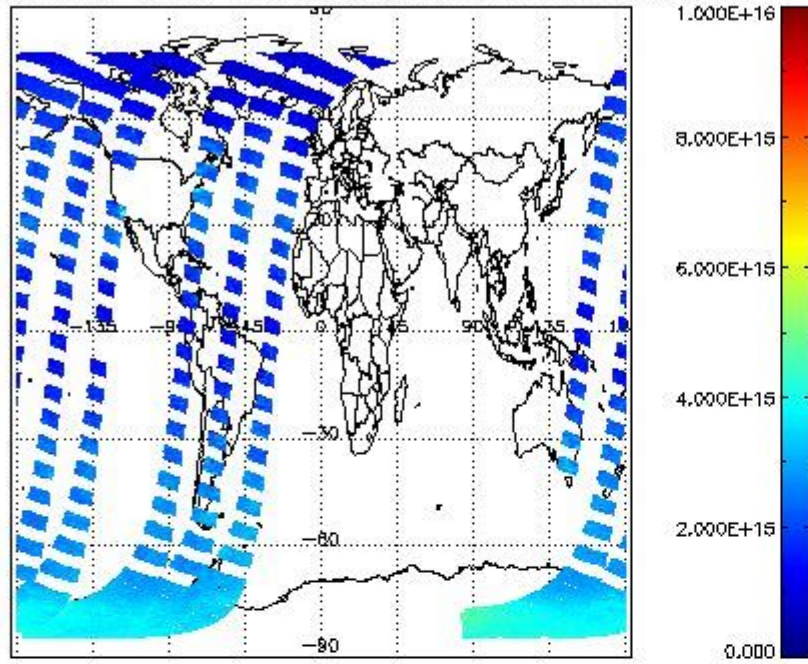
SCIOL2P_NADUV003_amf_cl for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



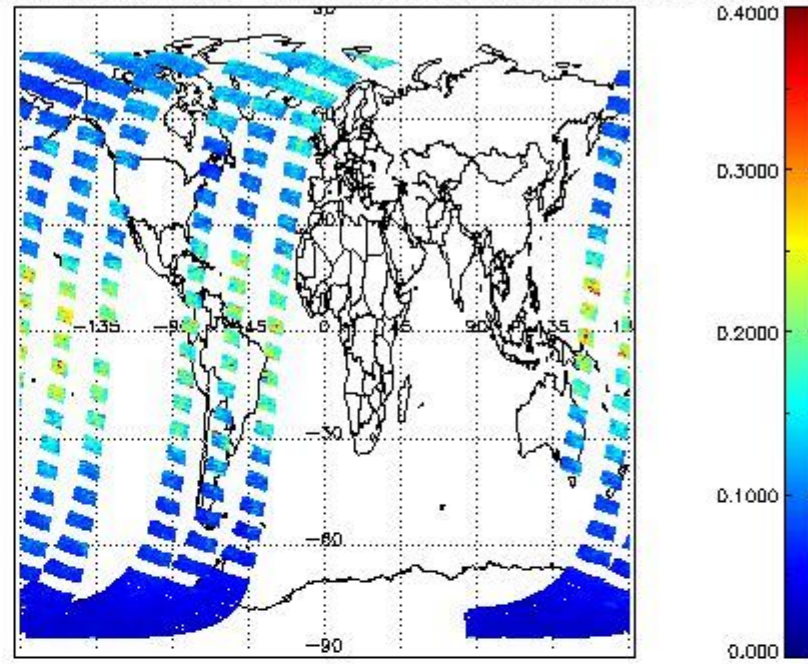
2.2.2.2 NO2 (UV1)



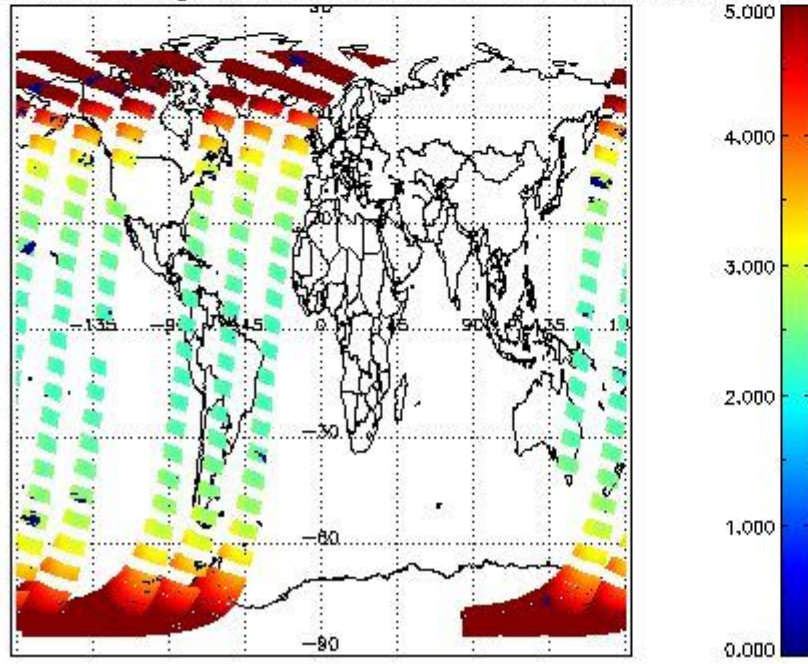
SCIOL2P_NADUV1N02_vcd for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



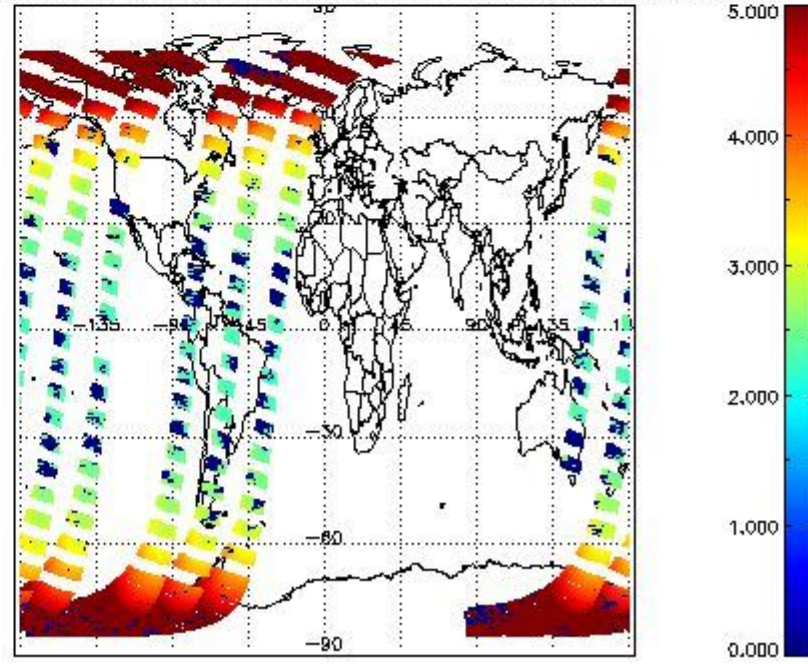
SCIOL2P_NADUV1N02_vcd_err for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



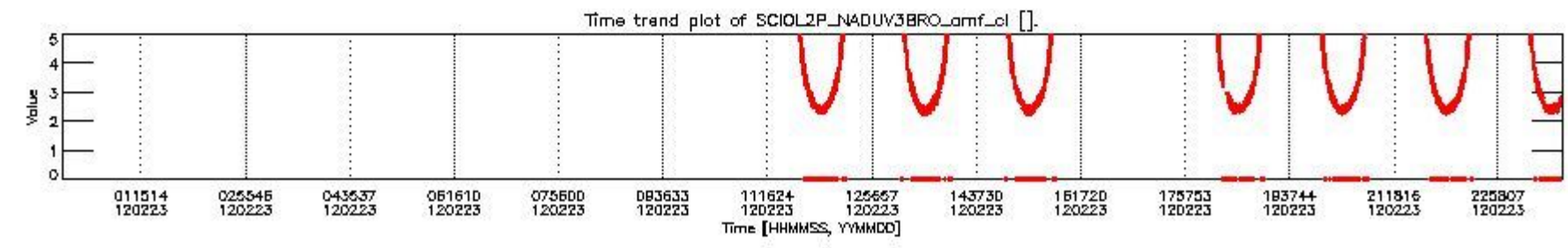
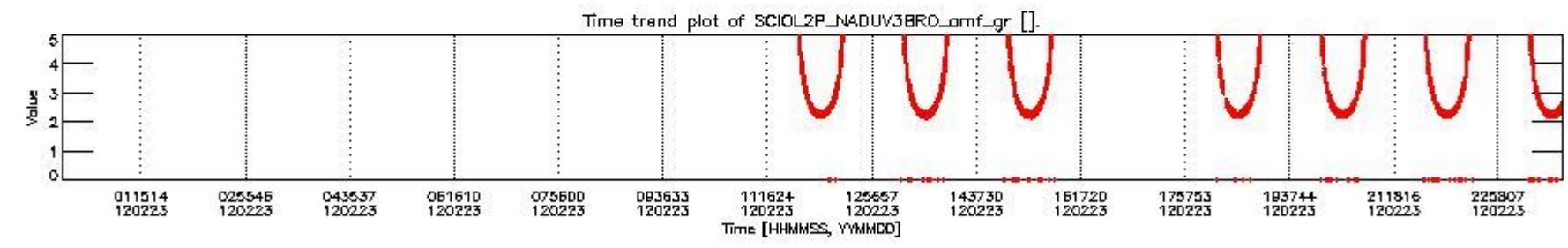
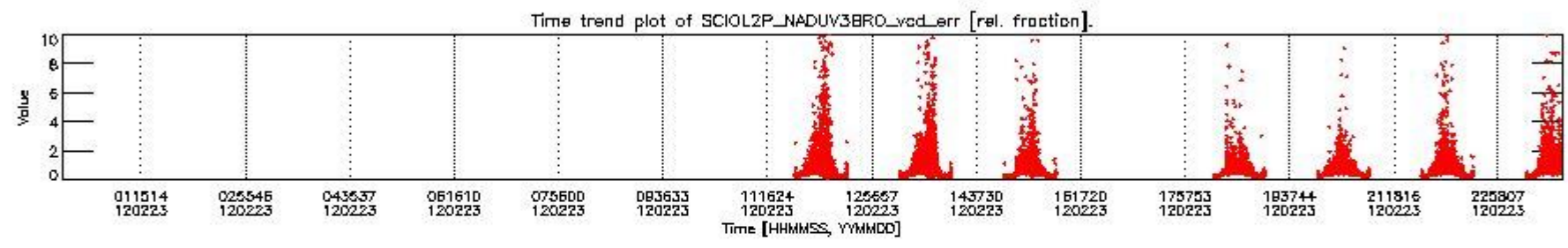
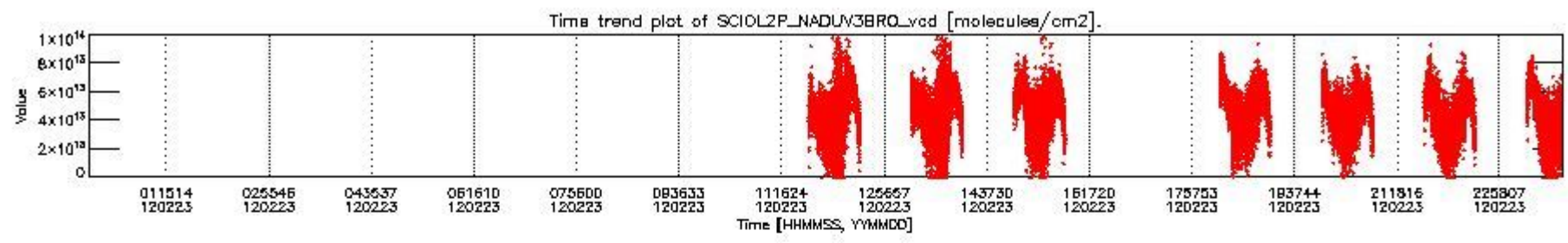
SCIOL2P_NADUV1N02_amf_gr for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



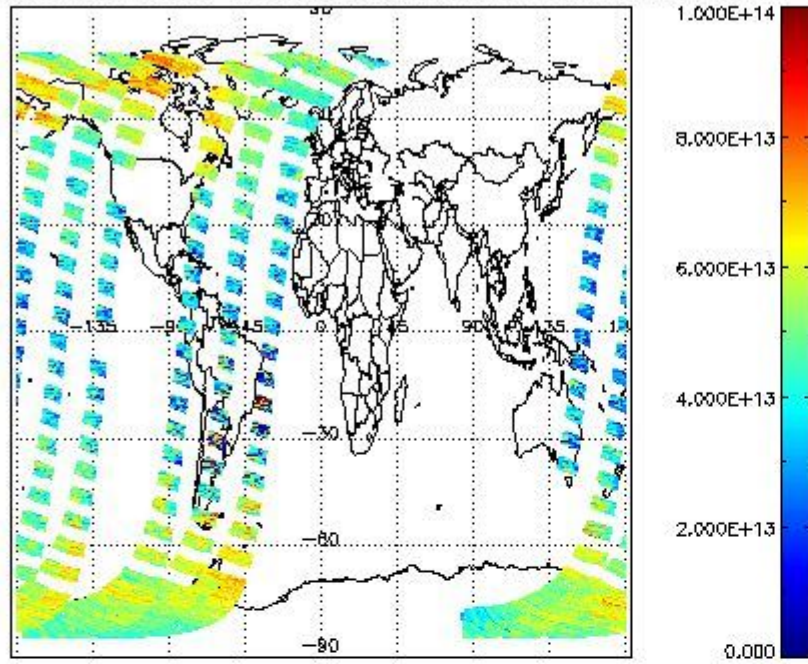
SCIOL2P_NADUV1N02_amf_cl for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



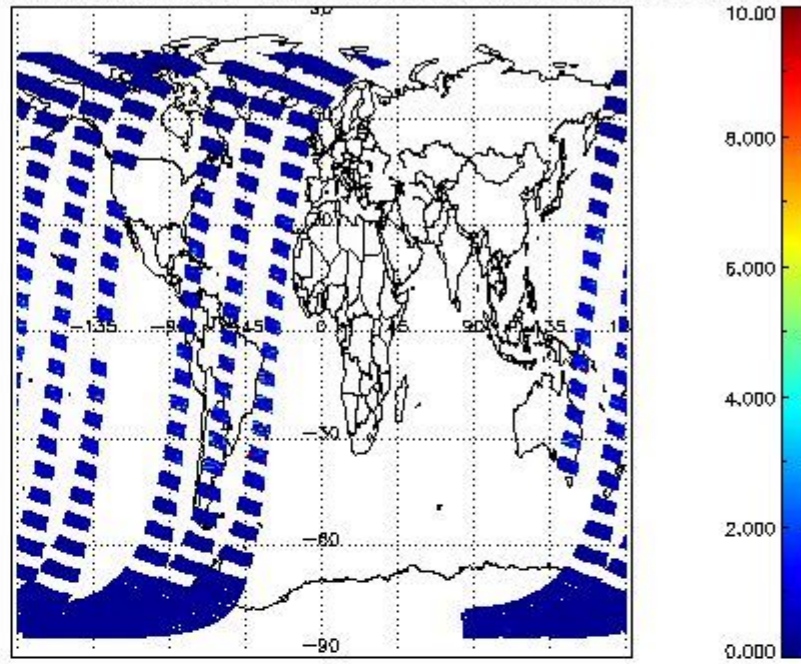
2.2.2.3 Bro (UV3)



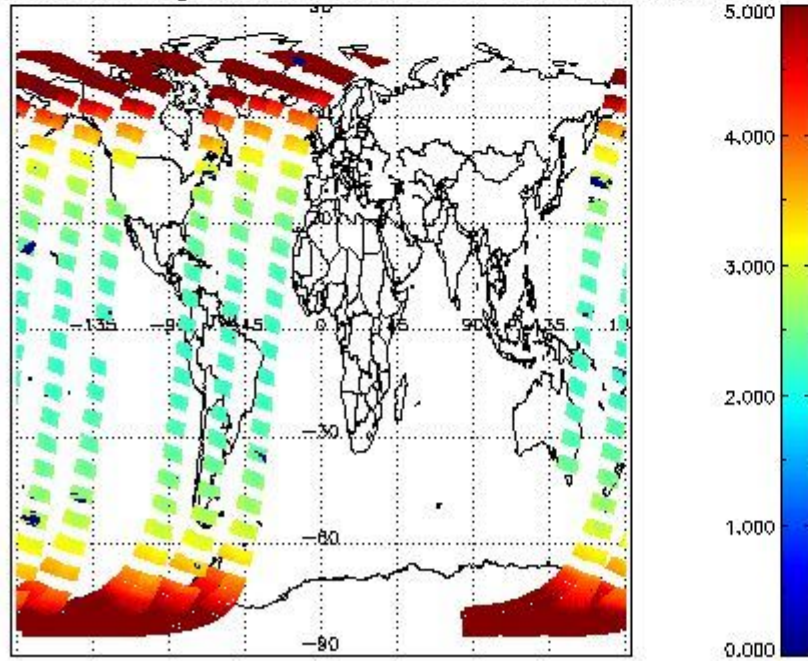
SCIOL2P_NADUV3BRO_vcd for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



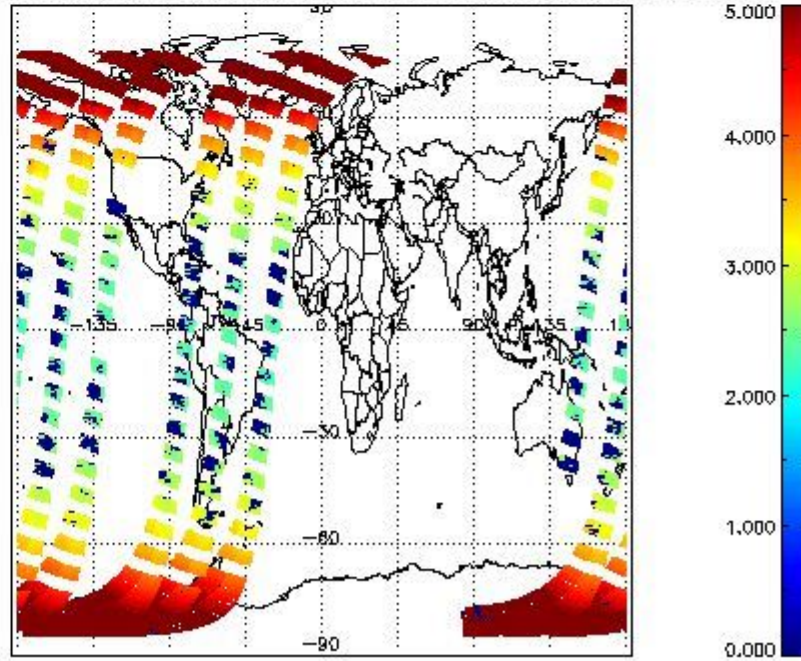
SCIOL2P_NADUV3BRO_vcd_err for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



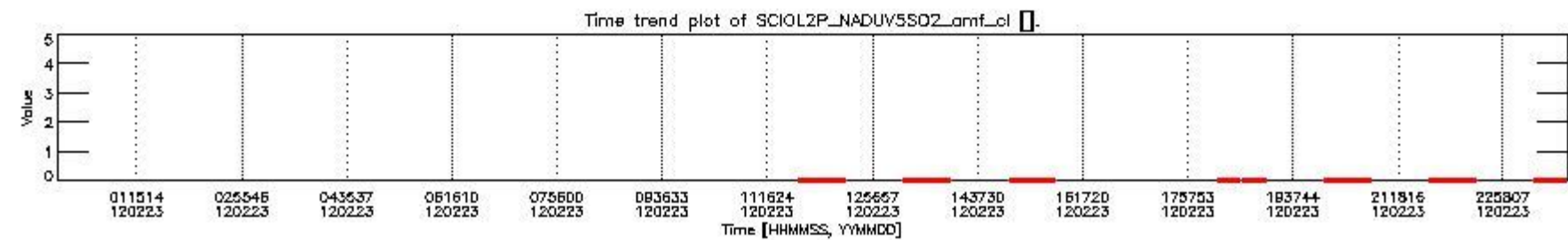
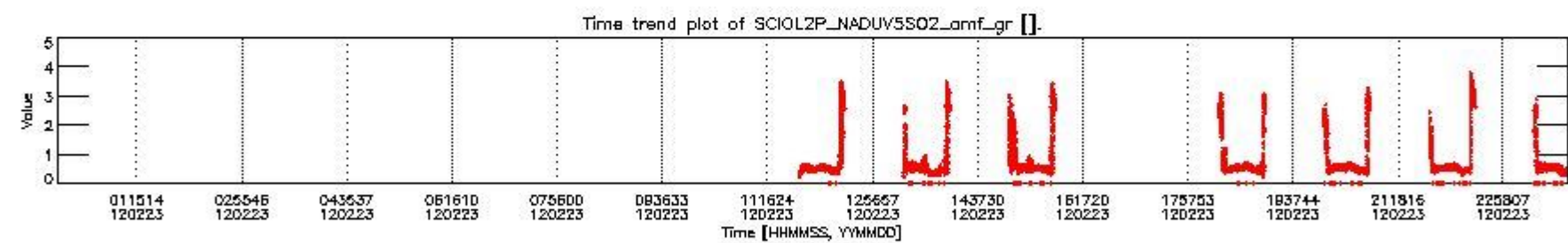
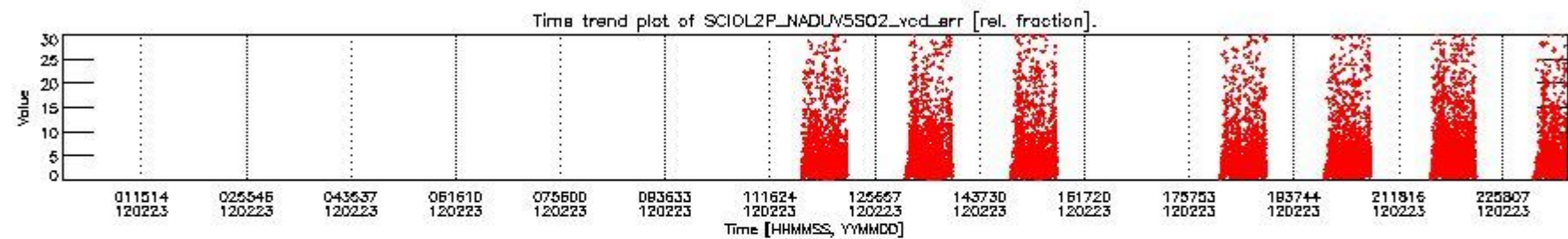
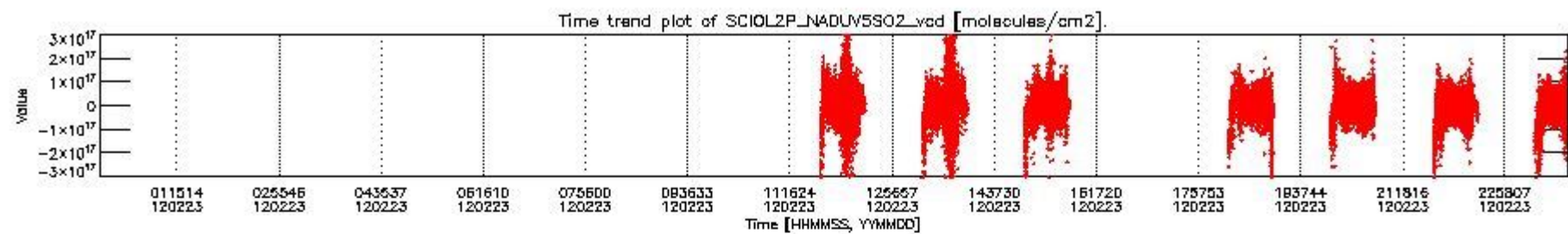
SCIOL2P_NADUV3BRO_amf_gr for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



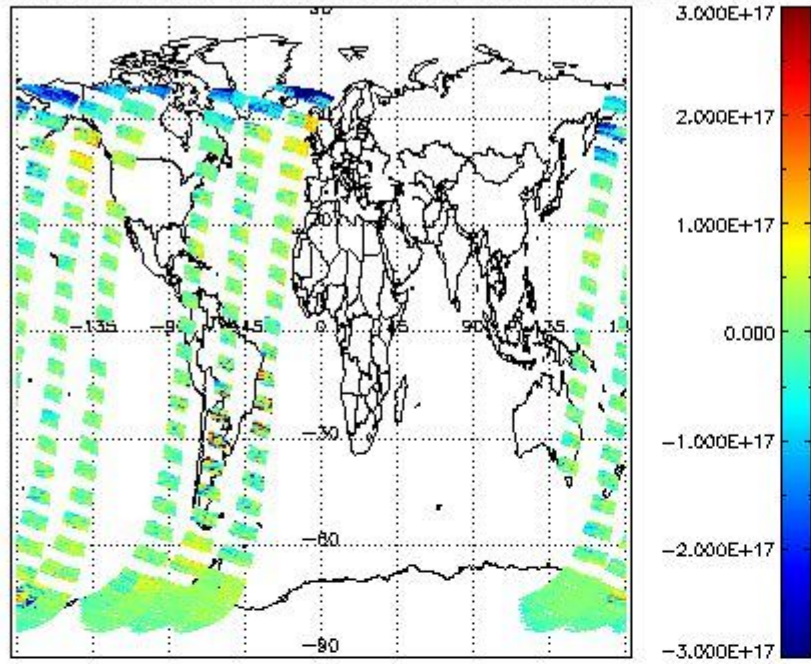
SCIOL2P_NADUV3BRO_amf_cl for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



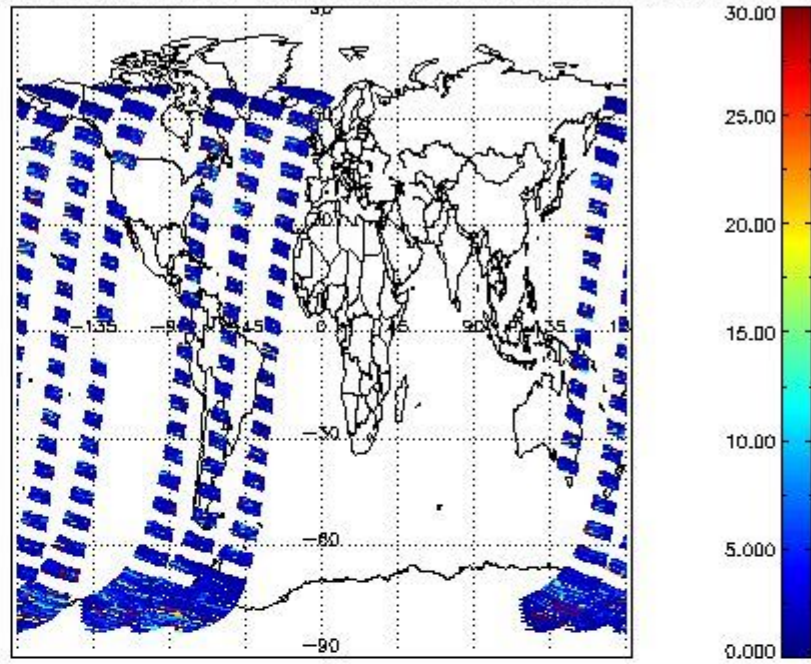
2.2.2.4 SO2 (UV5)



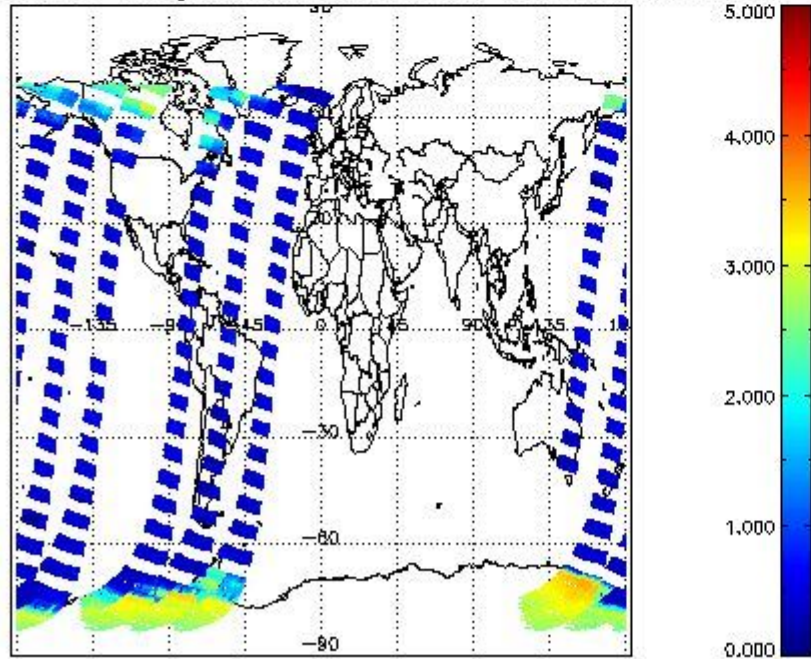
SCIOL2P_NADUV5SO2_vcd for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



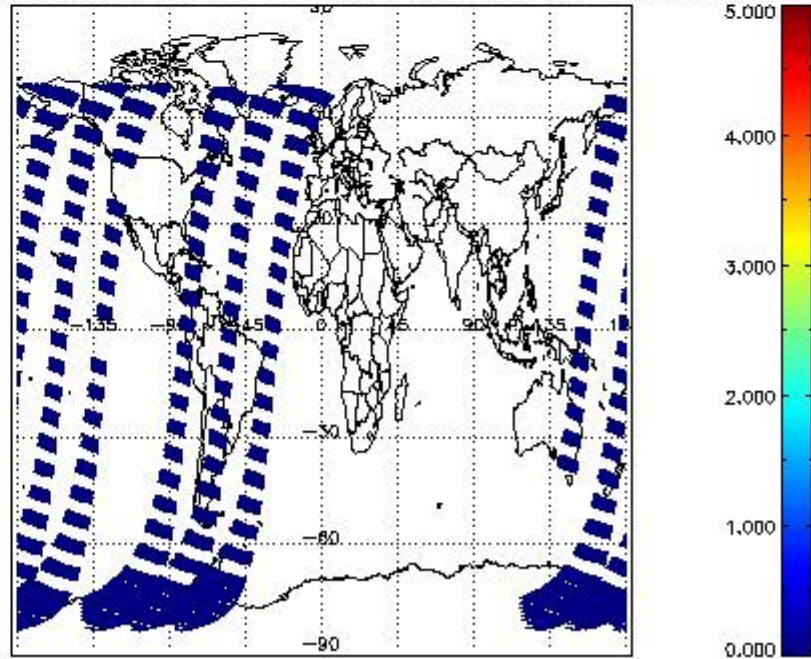
SCIOL2P_NADUV5SO2_vcd_err for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



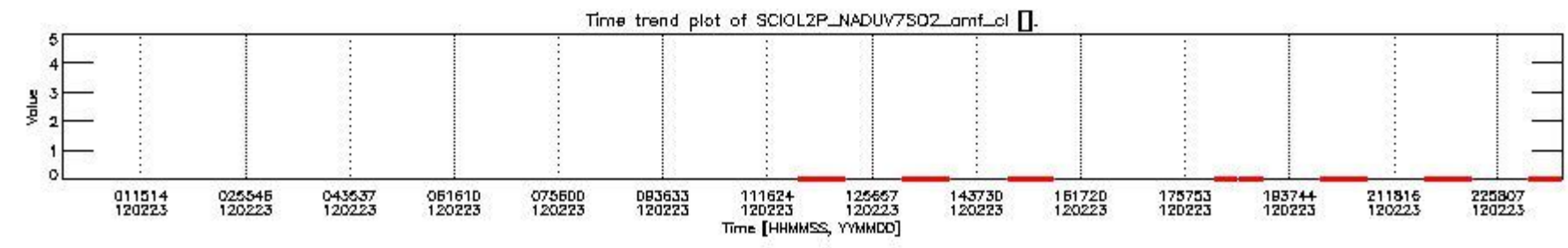
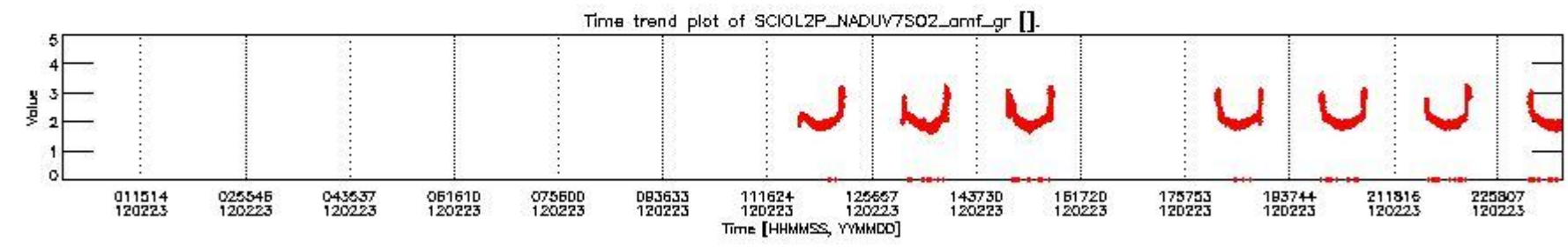
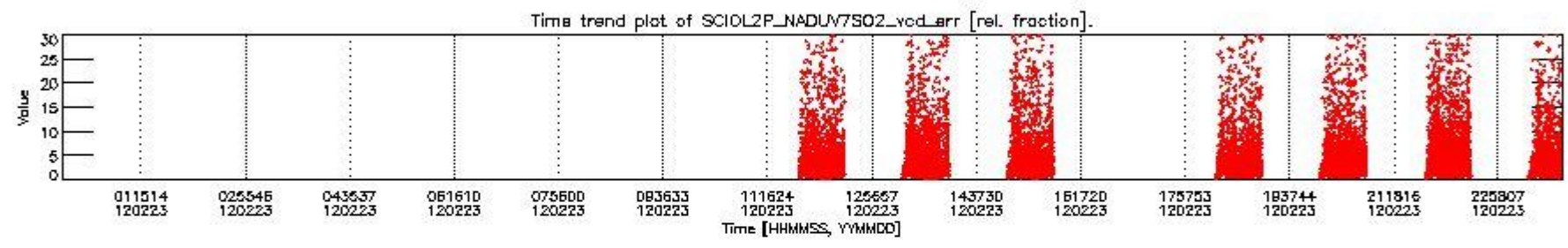
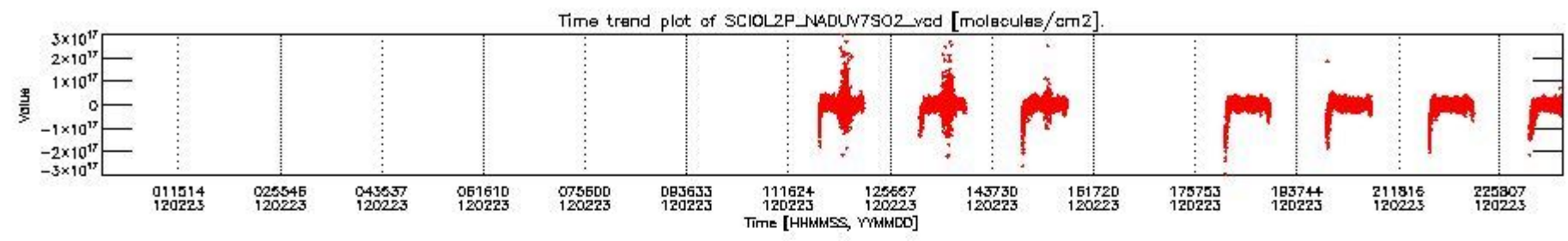
SCIOL2P_NADUV5SO2_amf_gr for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



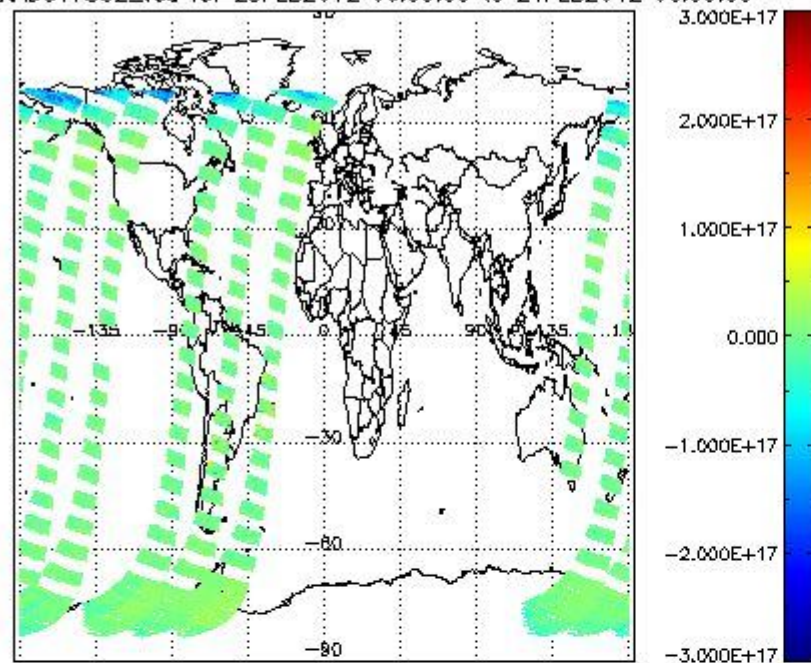
SCIOL2P_NADUV5SO2_amf_cl for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



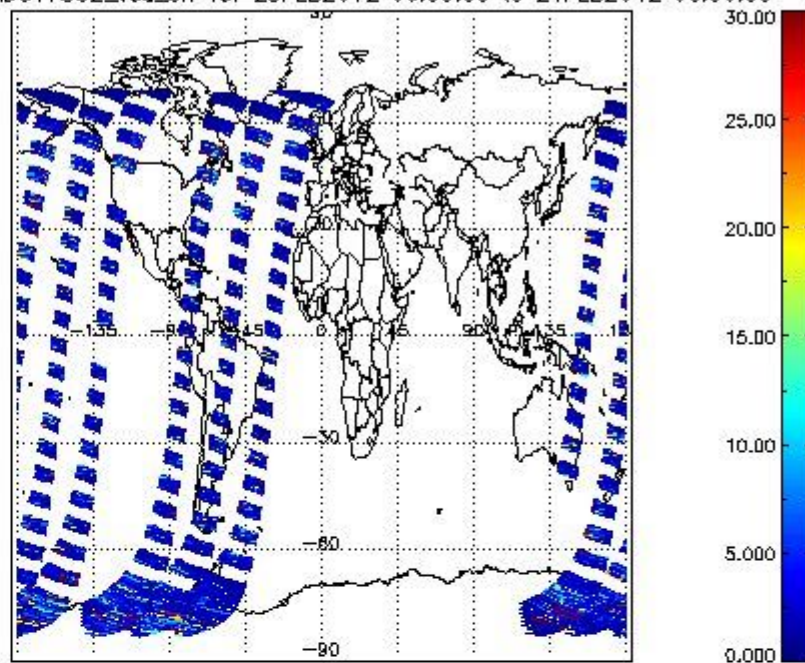
2.2.2.5 SO2 (UV7)



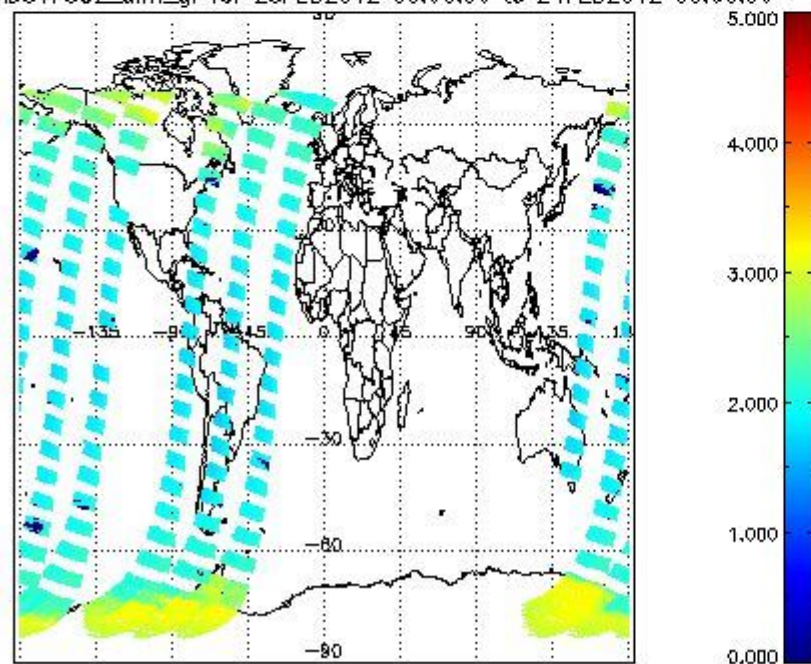
SCIOL2P_NADUV7S02_vcd for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



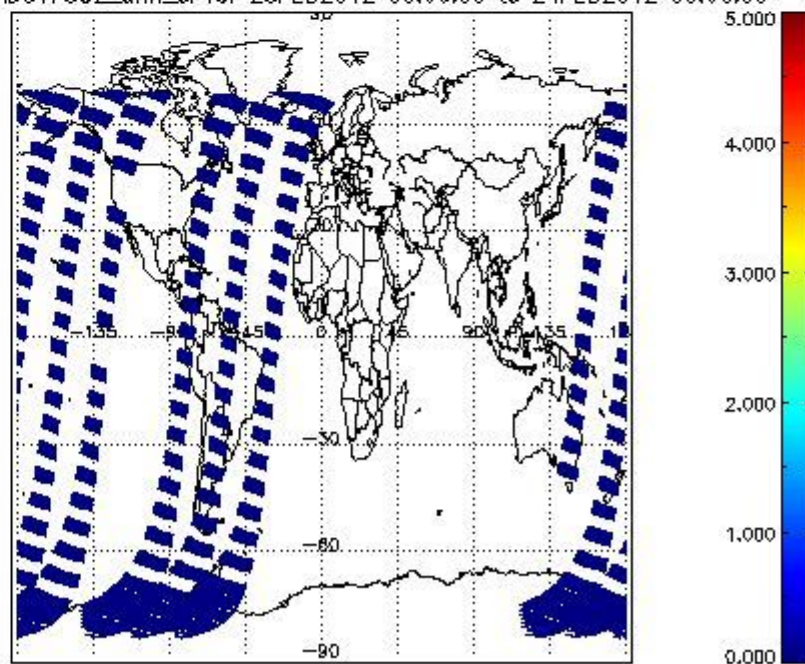
SCIOL2P_NADUV7S02_vcd_err for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



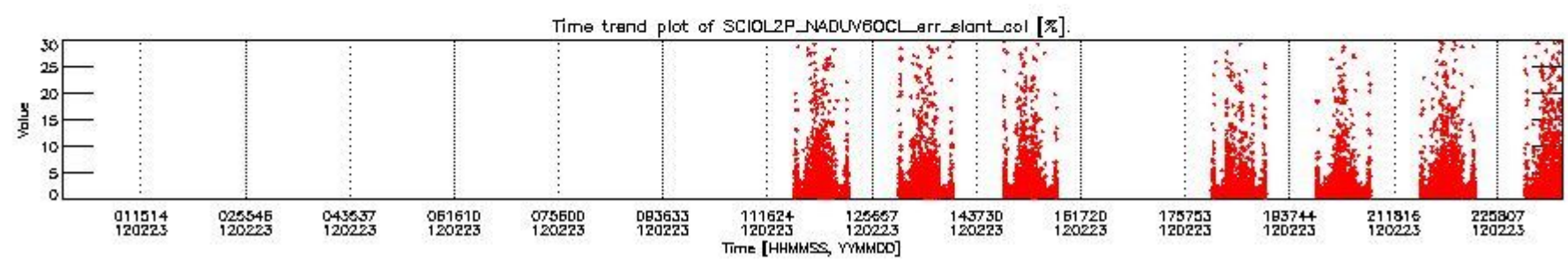
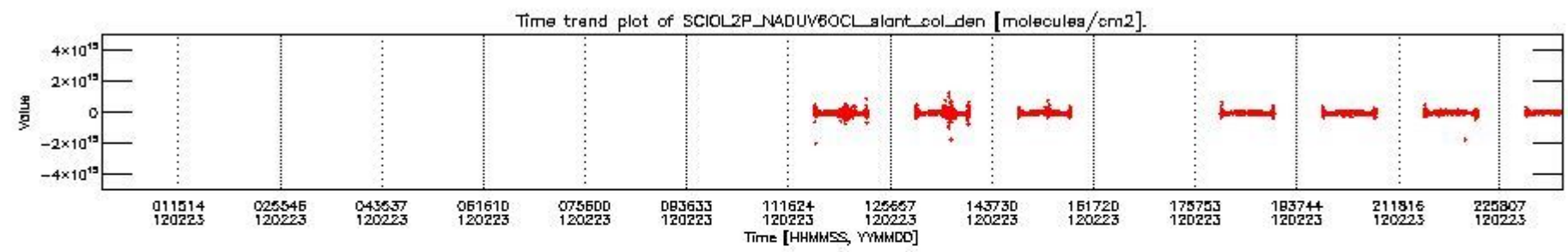
SCIOL2P_NADUV7S02_amf_gr for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



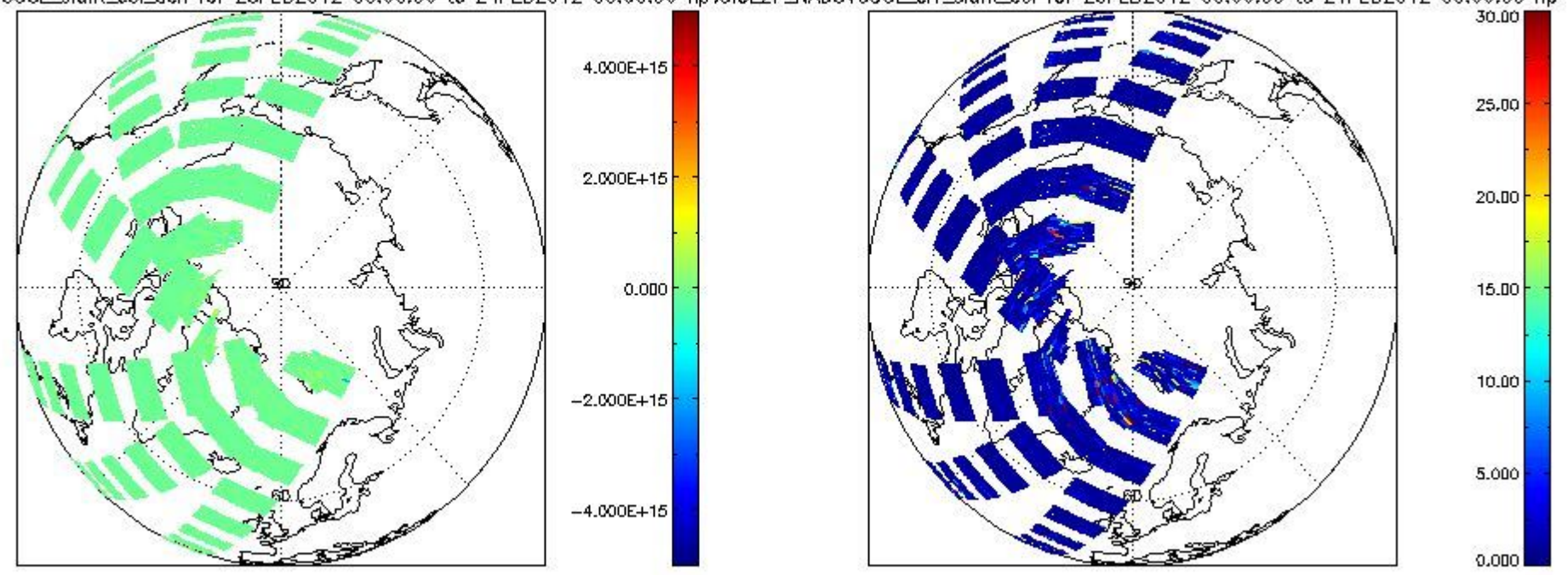
SCIOL2P_NADUV7S02_amf_cl for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



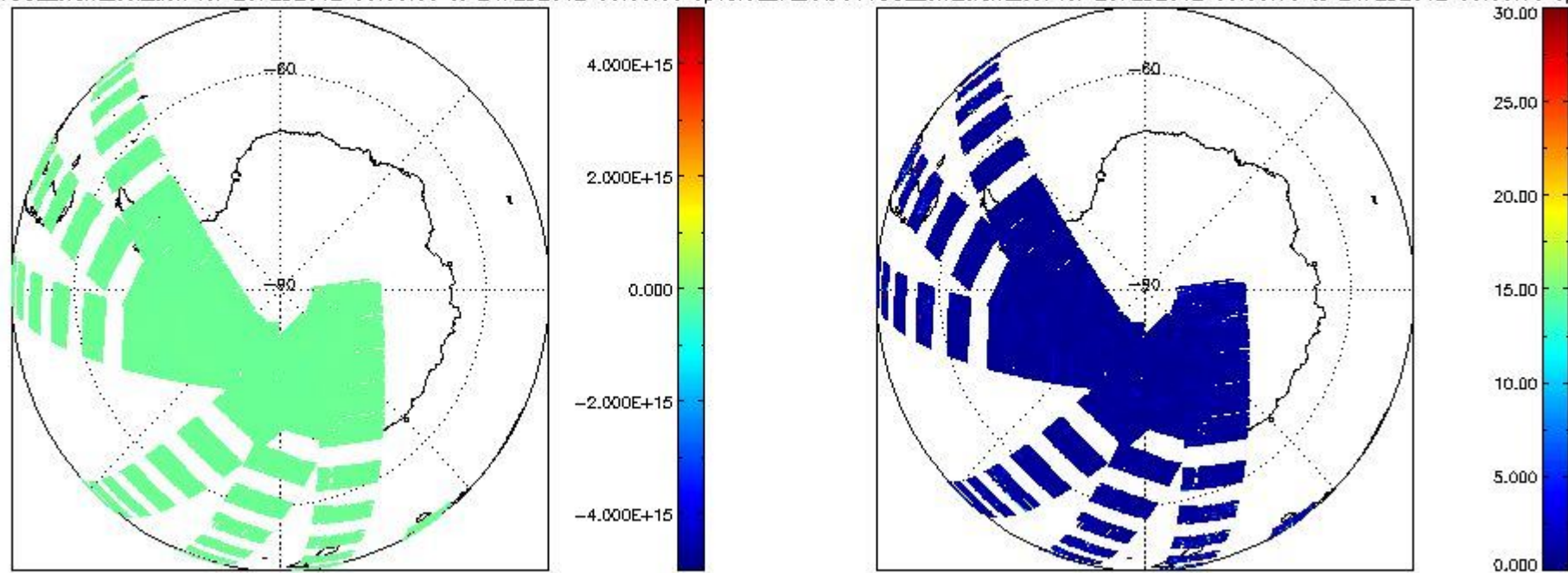
2.2.2.6 OCIO (UV6)



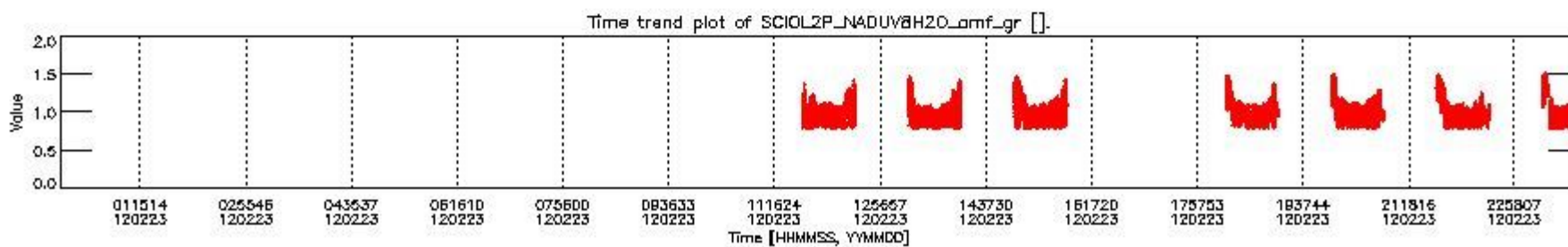
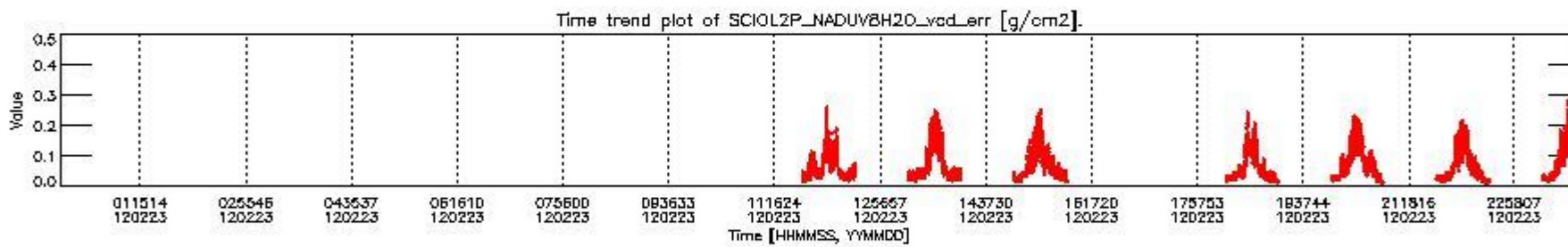
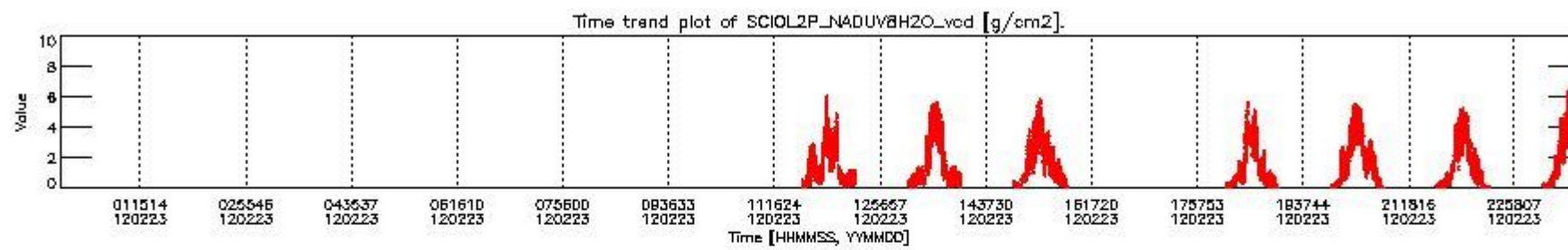
CIOL2P_NADUV6OCL_slant_col_den for 23FEB2012 00:00:00 to 24FEB2012 00:00:00 np; CIOL2P_NADUV6OCL_err_slant_col for 23FEB2012 00:00:00 to 24FEB2012 00:00:00 np



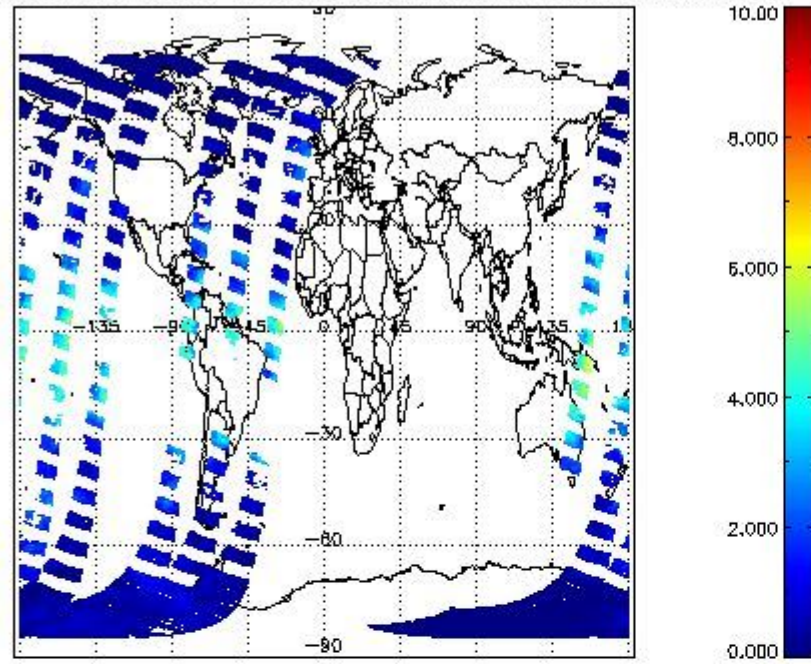
CIOL2P_NADUV6OCL_slant_col_den for 23FEB2012 00:00:00 to 24FEB2012 00:00:00 sp; CIOL2P_NADUV6OCL_err_slant_col for 23FEB2012 00:00:00 to 24FEB2012 00:00:00 sp



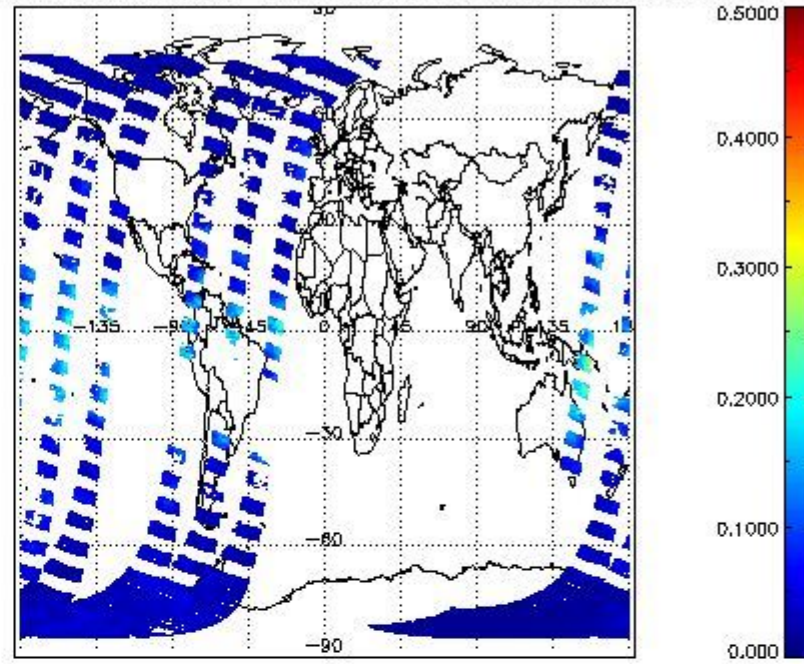
2.2.2.7 H2O (UV8)



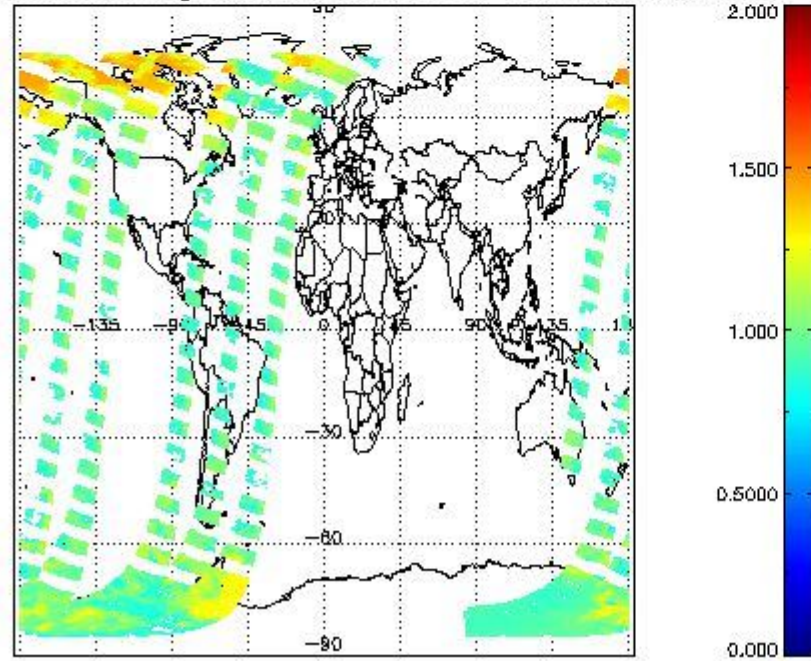
SCIOL2P_NADUV8H2O_vcd for 23FEB2012 00:00:00 to 24FEB2012 00:00:00

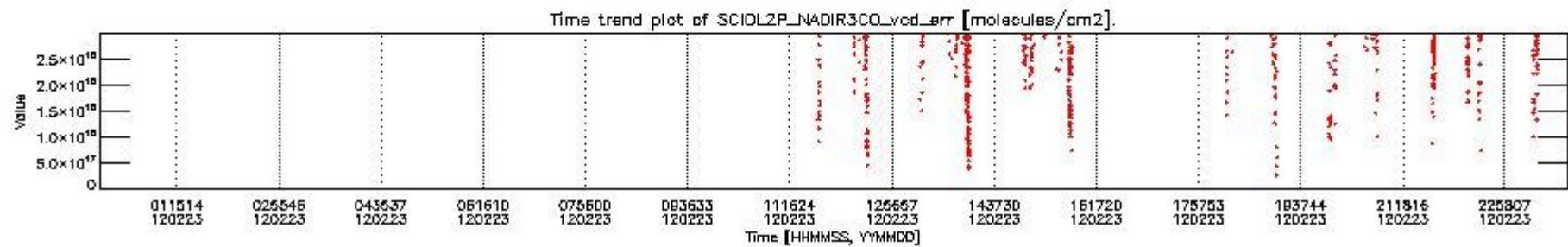
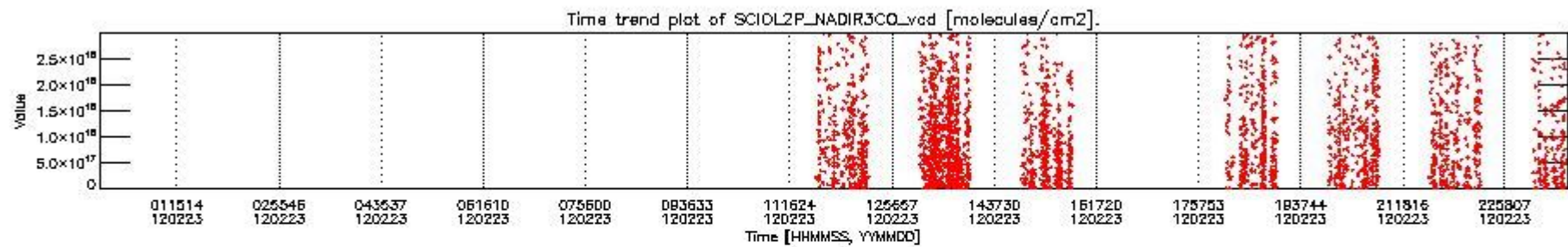


SCIOL2P_NADUV8H2O_vcd_err for 23FEB2012 00:00:00 to 24FEB2012 00:00:00

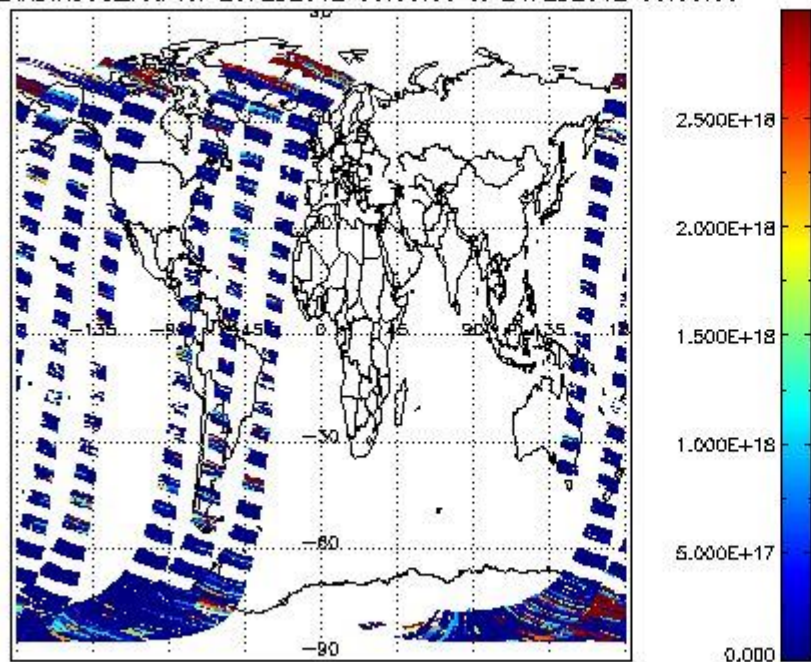


SCIOL2P_NADUV8H2O_amf_gr for 23FEB2012 00:00:00 to 24FEB2012 00:00:00

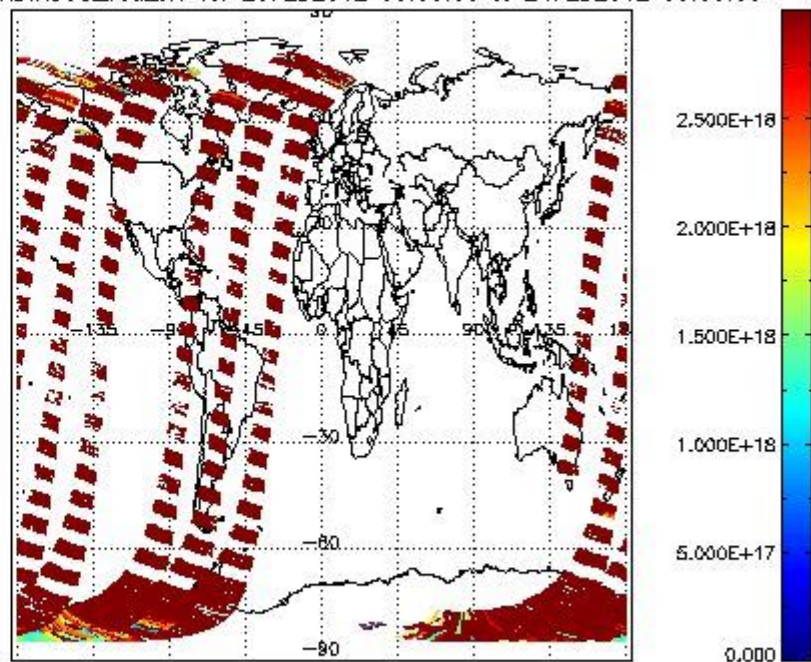




SCIO2P_NADIR3CO_vcd for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



SCIO2P_NADIR3CO_vcd_err for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



2.2.3 Limb

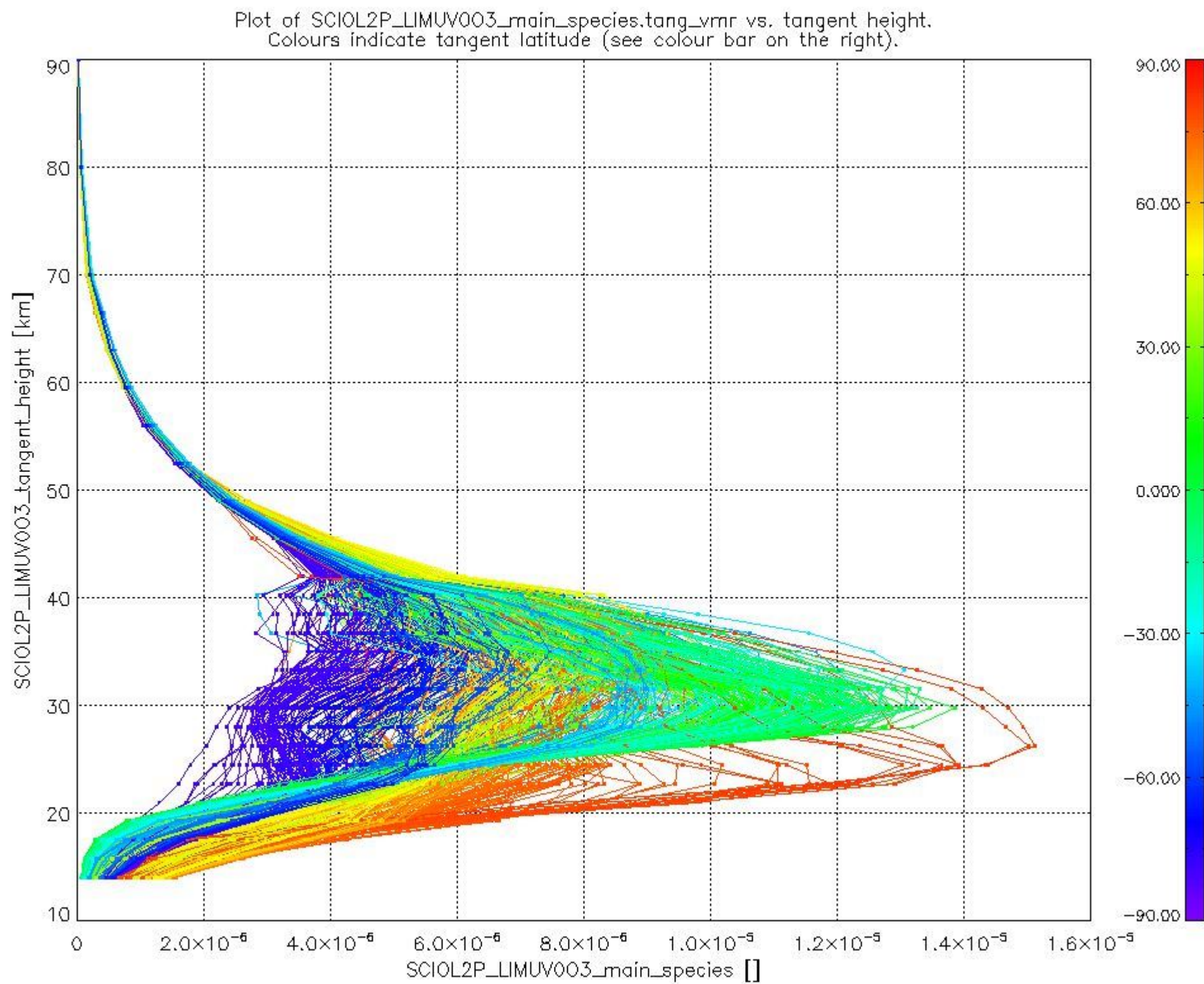
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

The following data items are currently included into this section:

Number	Data item ID
0	SCIO2P_LIMUV003_main_species
1	SCIO2P_LIMUV1NO2_main_species
2	SCIO2P_LIMUV3BRO_main_species

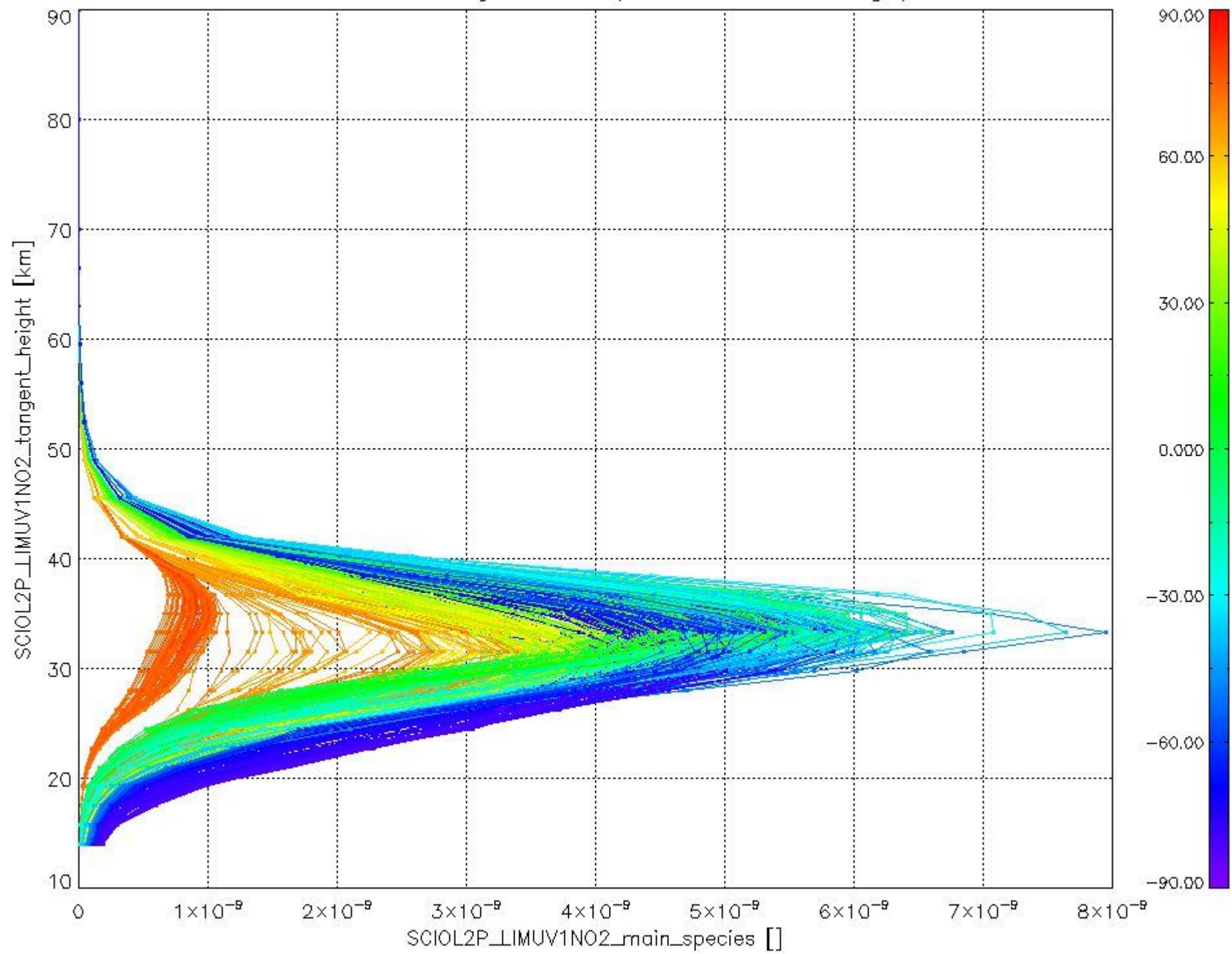
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



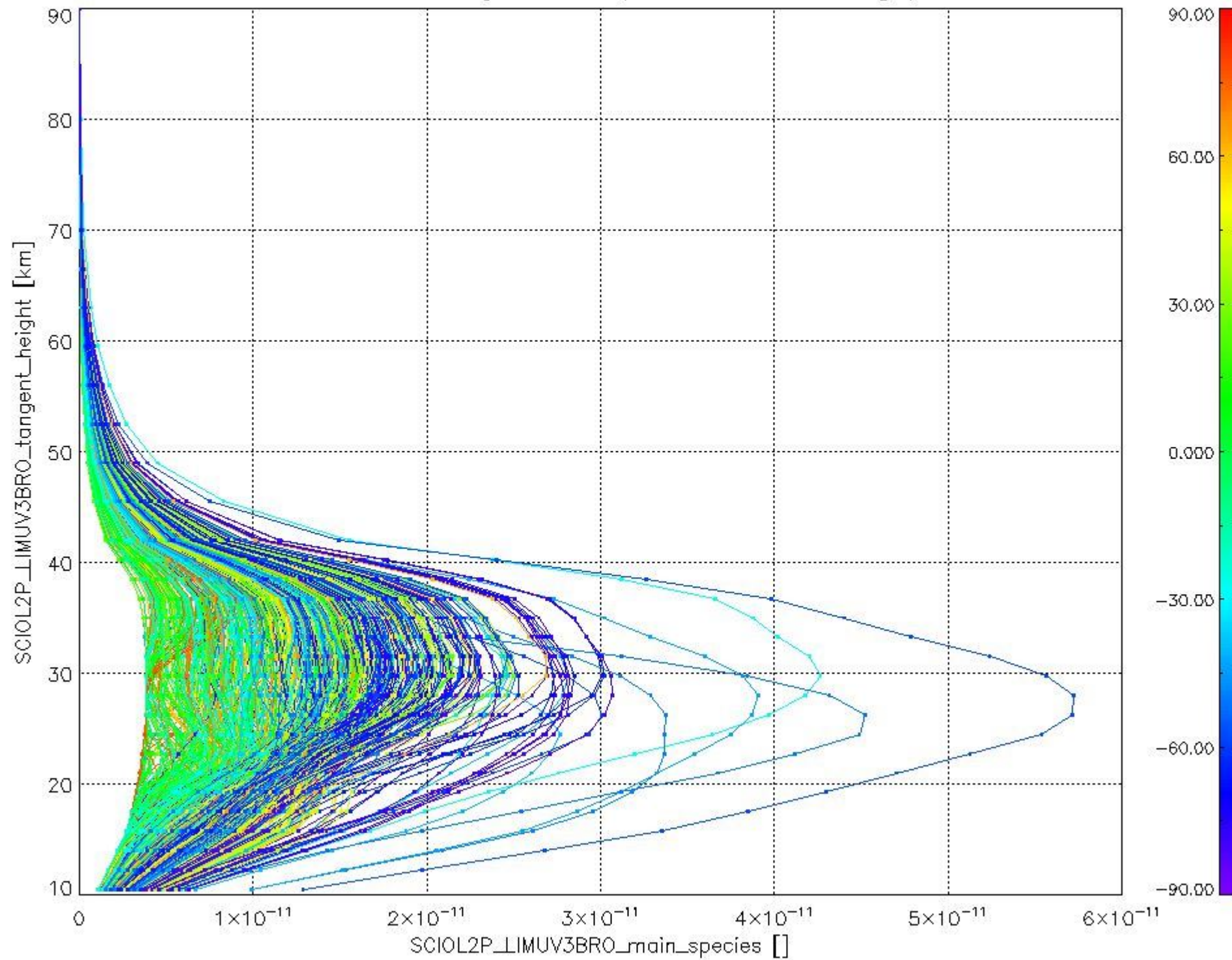
2.2.3.2 NO2 (UV1)

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)

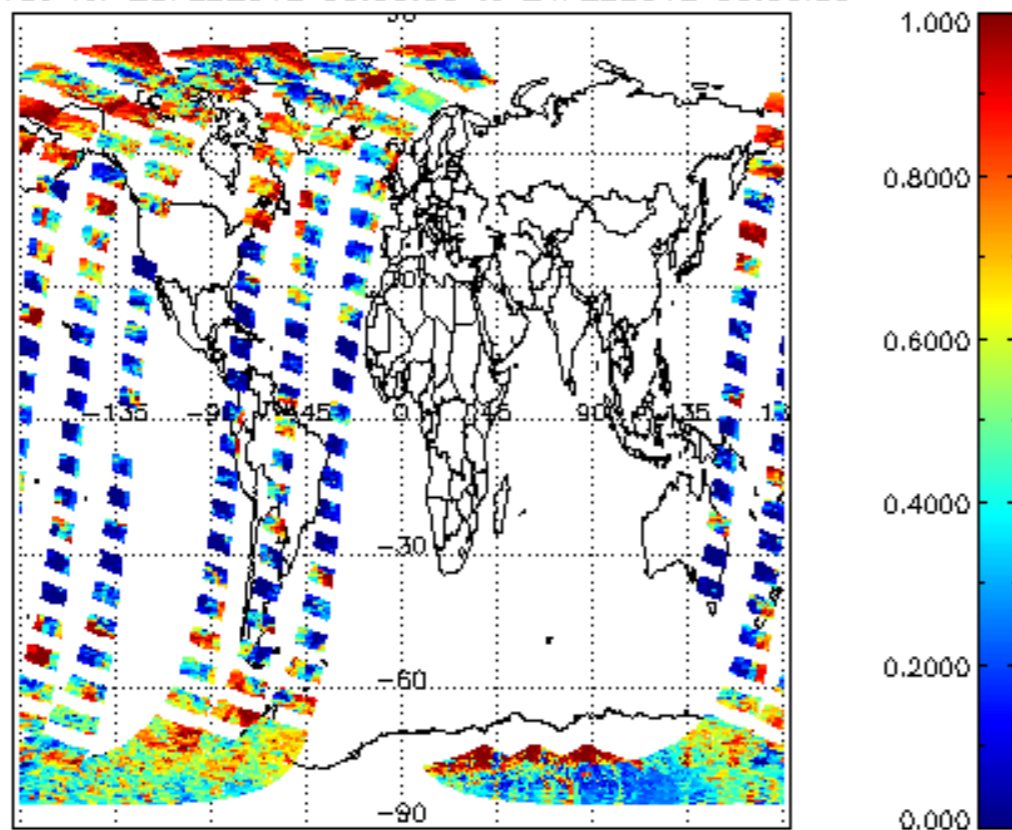
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



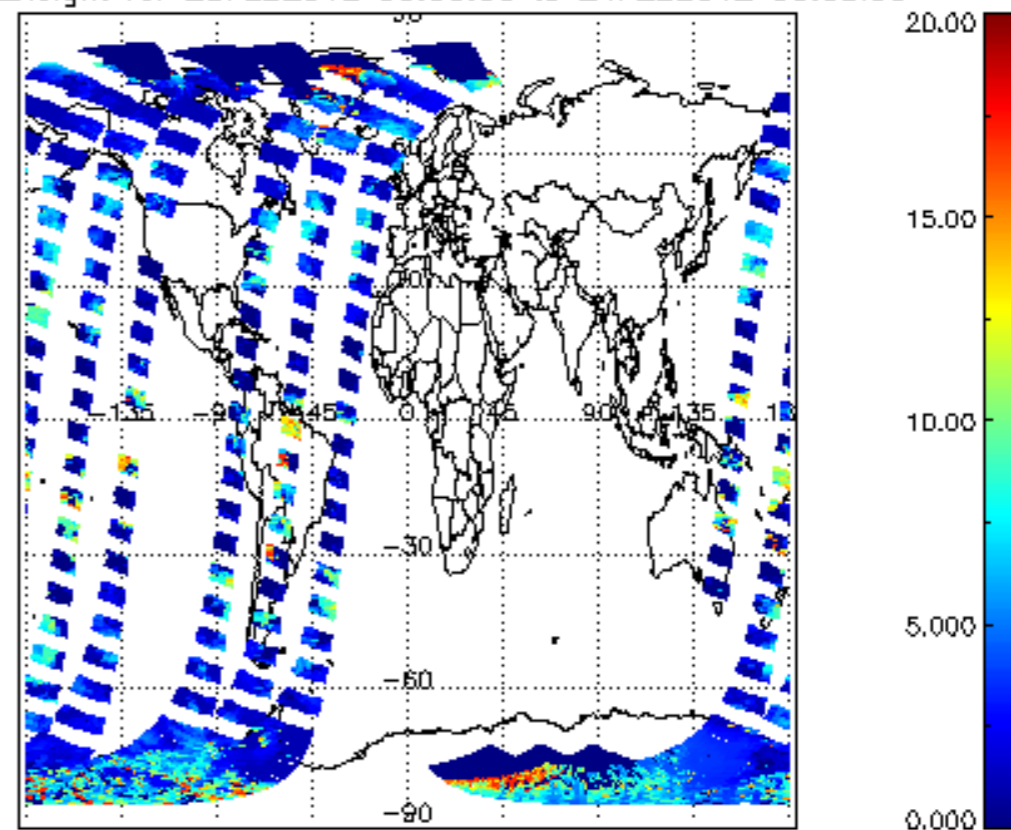
2.3 ADF monitoring

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_AXVIEC20120228_110035_20120223_191947_20120225_191947
3	SCI_MF1_AXVIEC20120228_110106_20120222_181618_20120224_181618

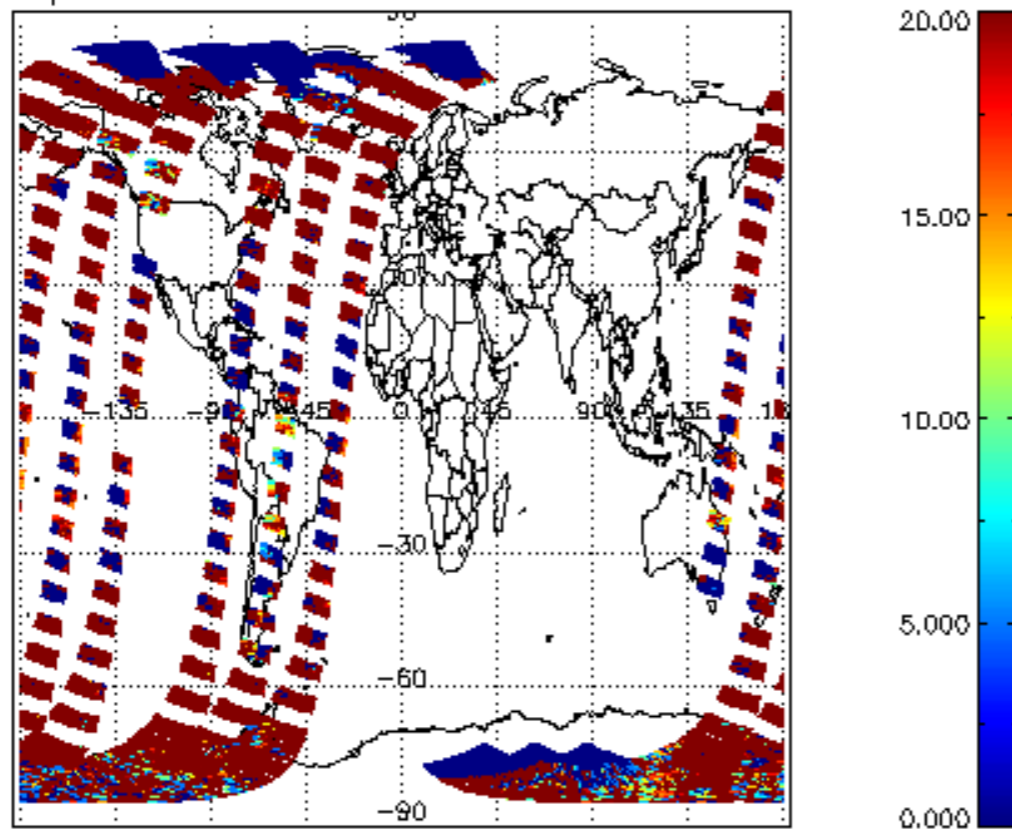
cl_frac for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



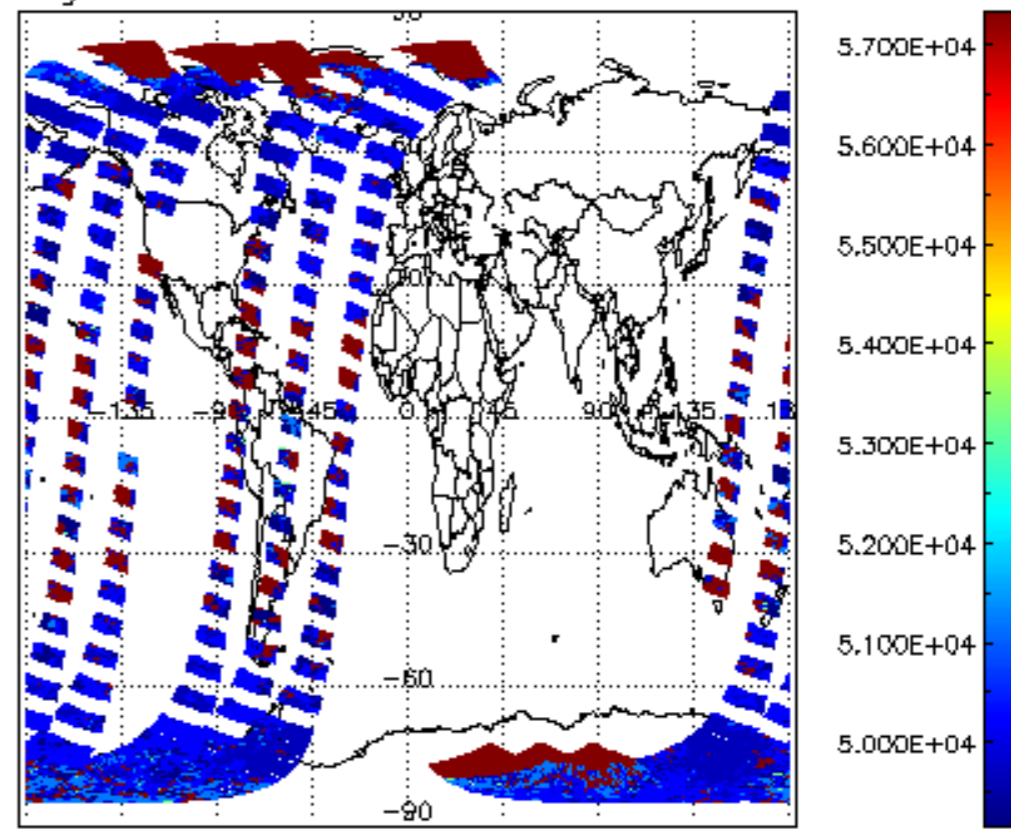
cl_top_height for 23FEB2012 00:00:00 to 24FEB2012 00:00:00

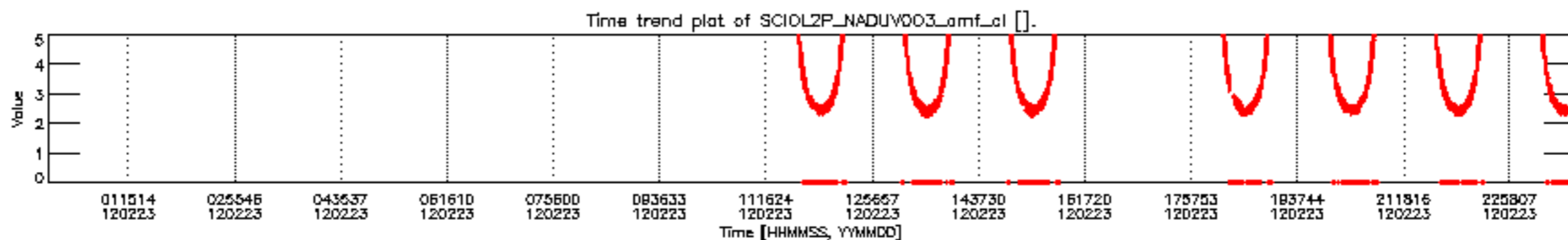
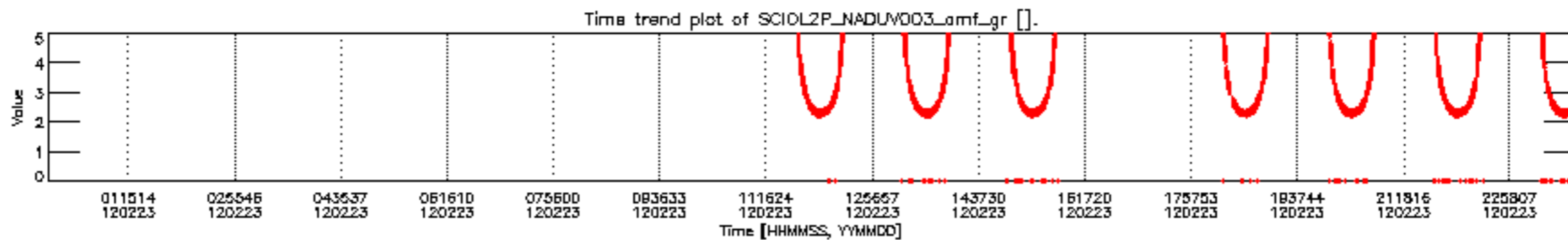
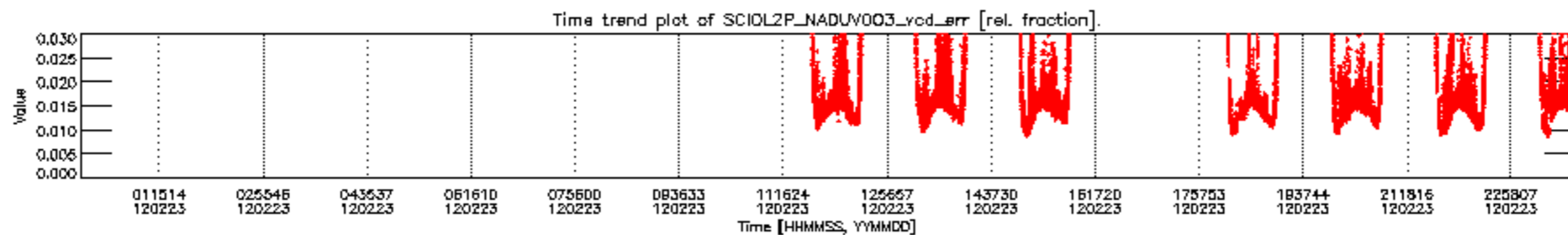
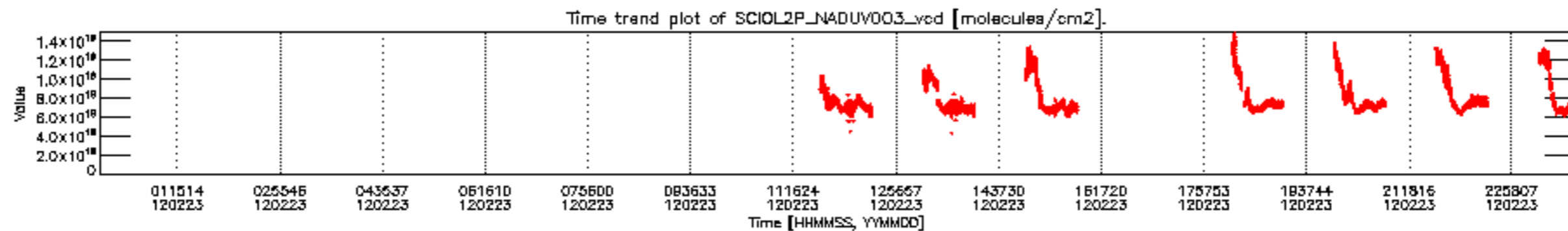


cl_opt_depth for 23FEB2012 00:00:00 to 24FEB2012 00:00:00

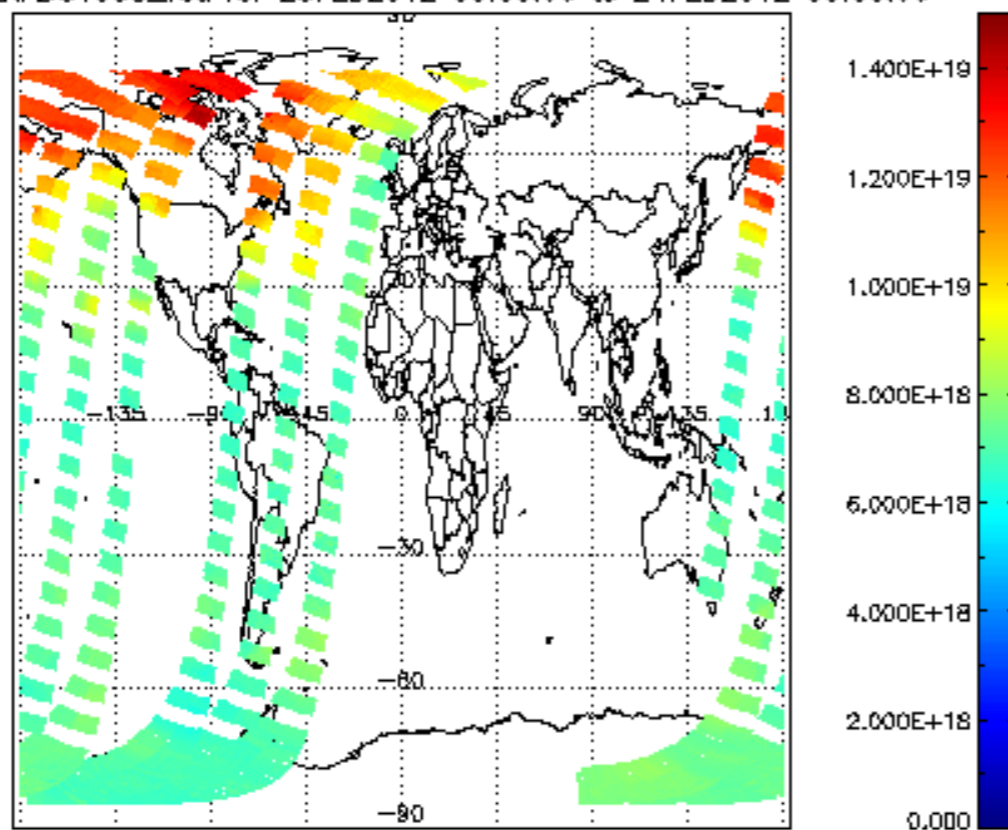


cloud_flags for 23FEB2012 00:00:00 to 24FEB2012 00:00:00

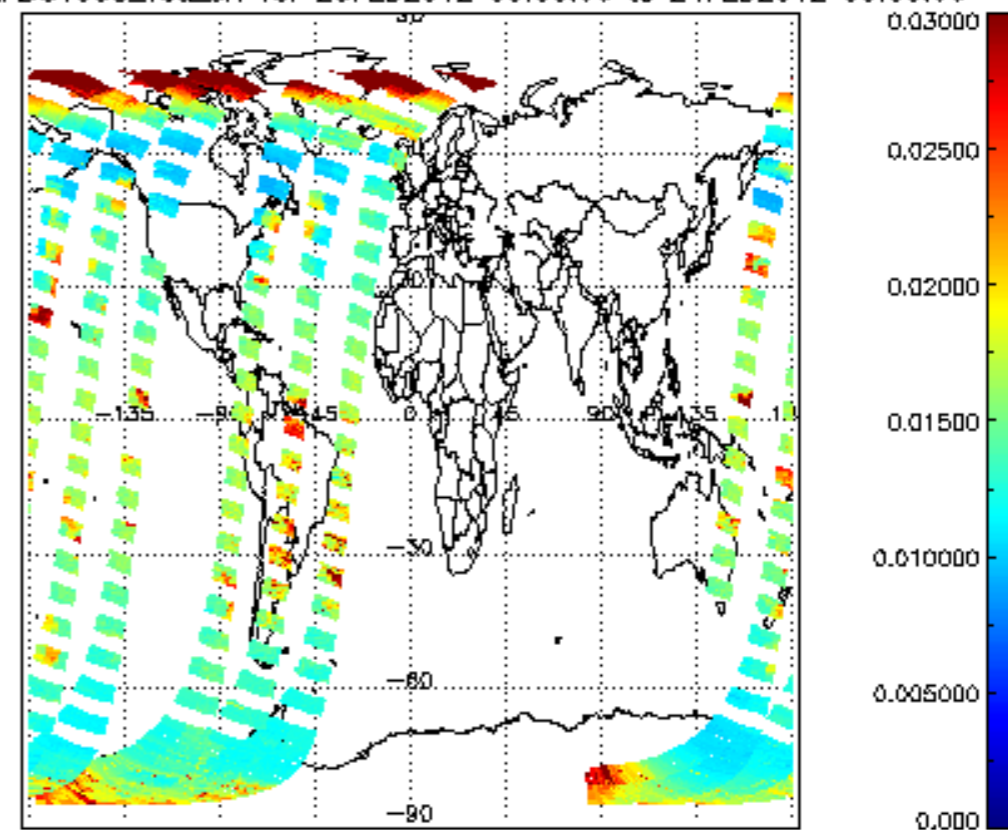




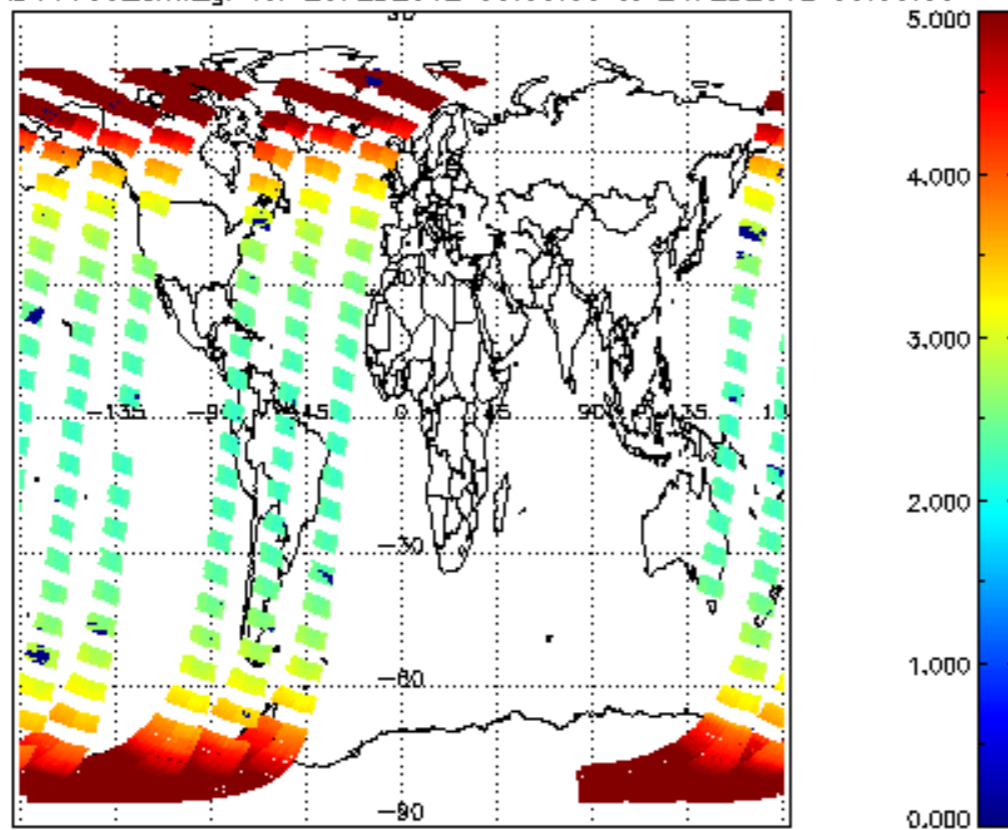
SCIOL2P_NADUV003_vcd for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



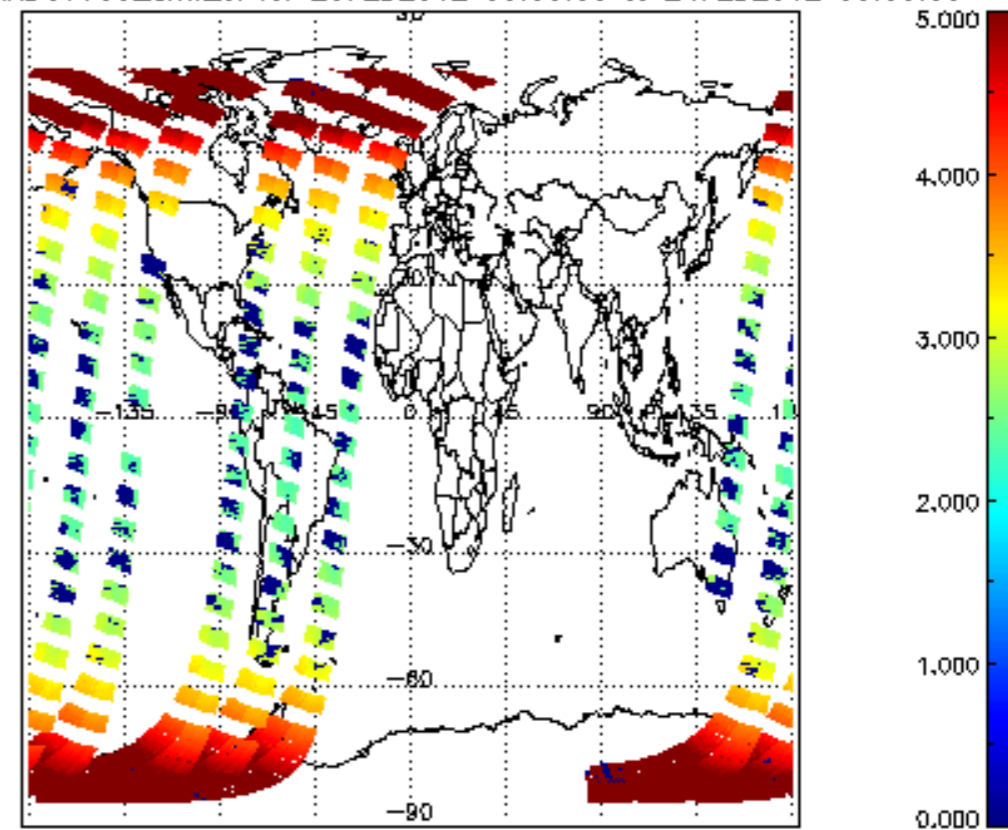
SCIOL2P_NADUV003_vcd_err for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



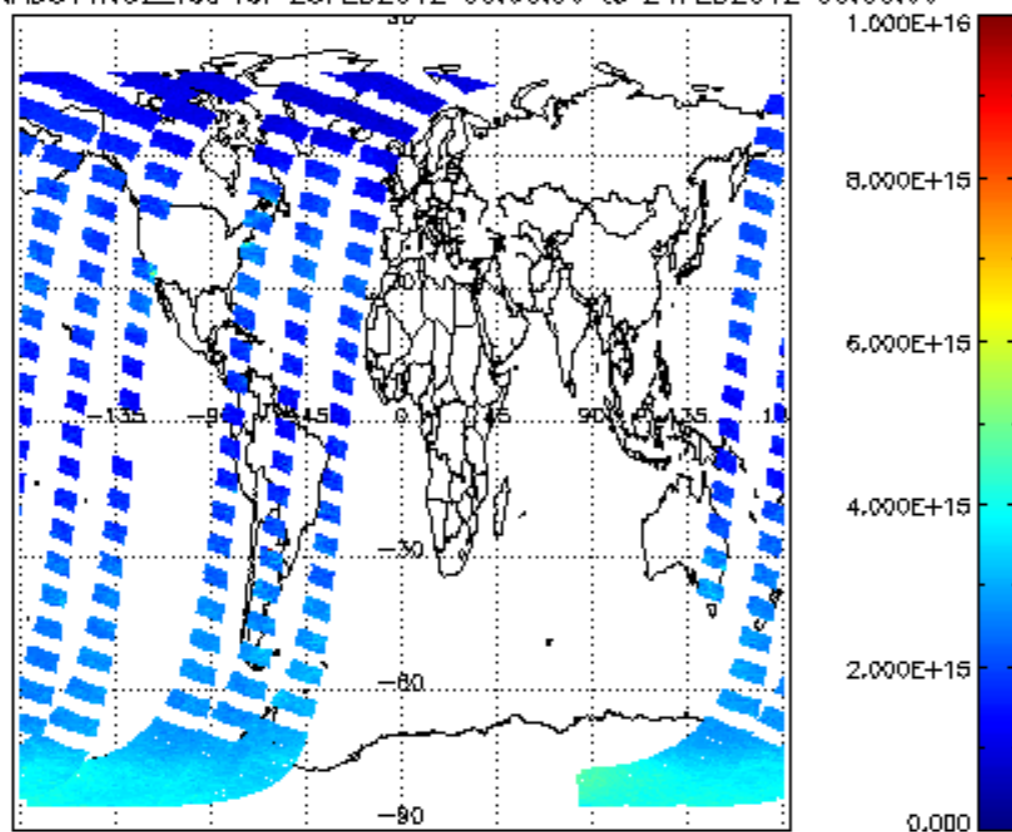
SCIOL2P_NADUV003_amf_gr for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



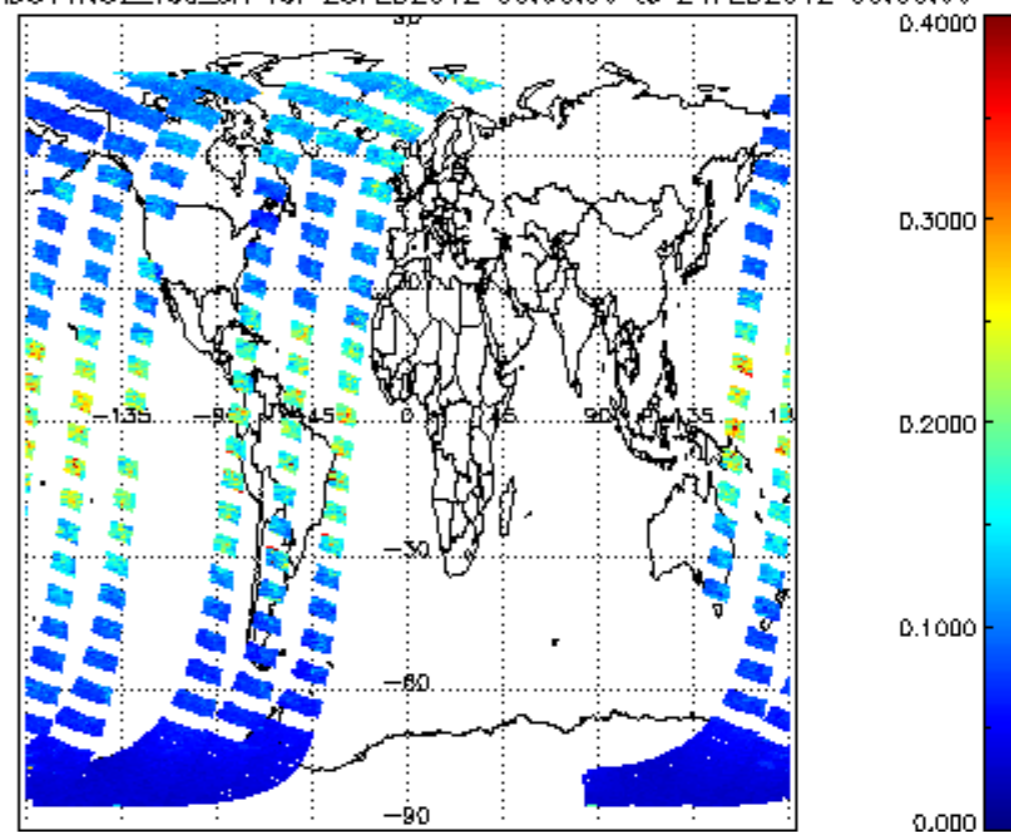
SCIOL2P_NADUV003_amf_cl for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



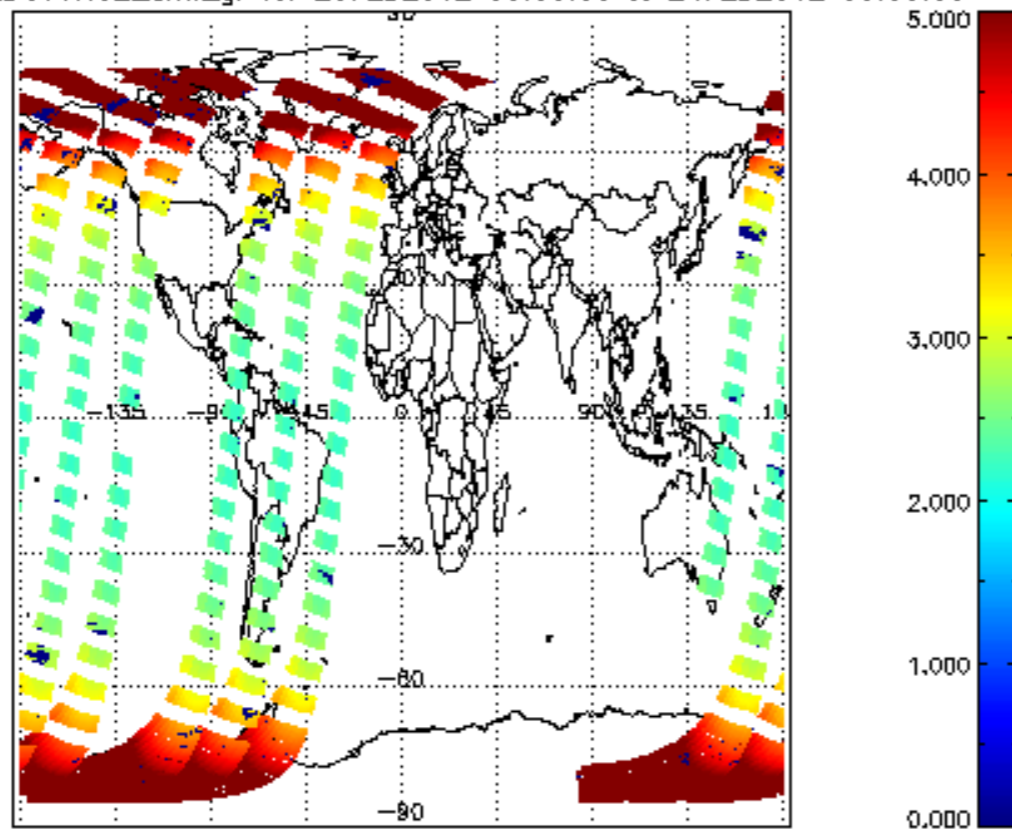
SCIOL2P_NADUV1N02_vcd for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



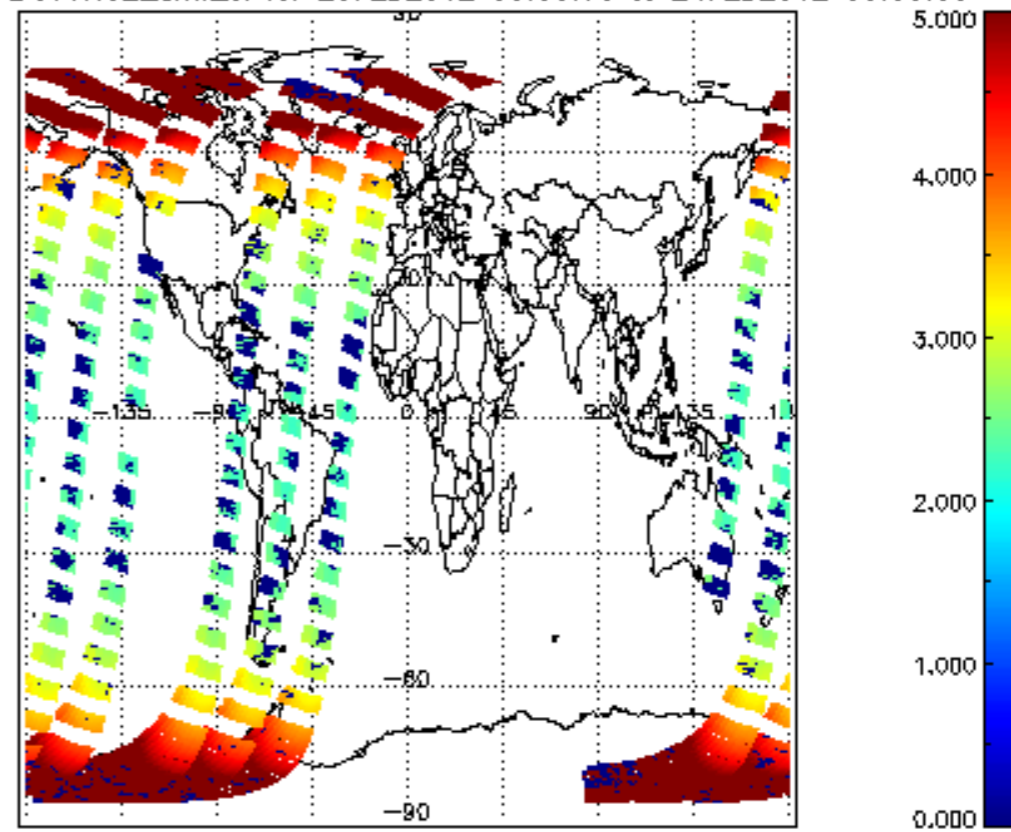
SCIOL2P_NADUV1N02_vcd_err for 23FEB2012 00:00:00 to 24FEB2012 00:00:00

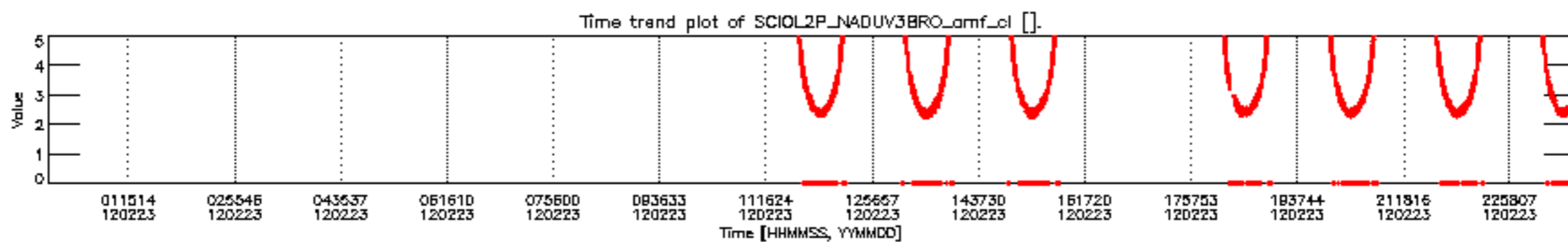
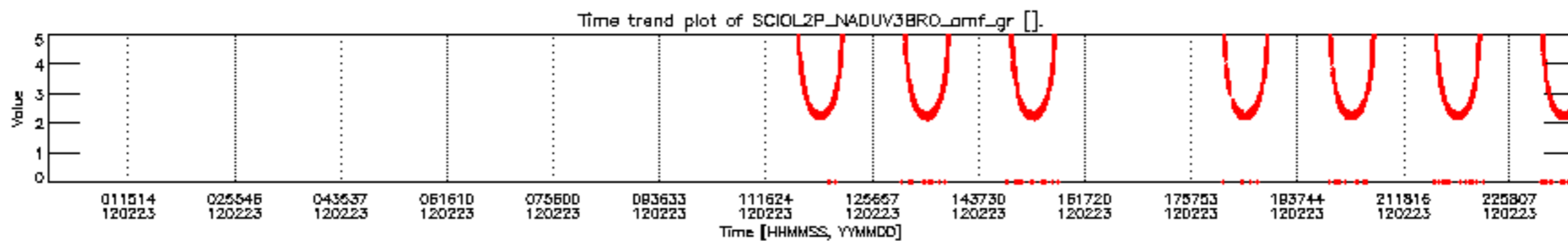
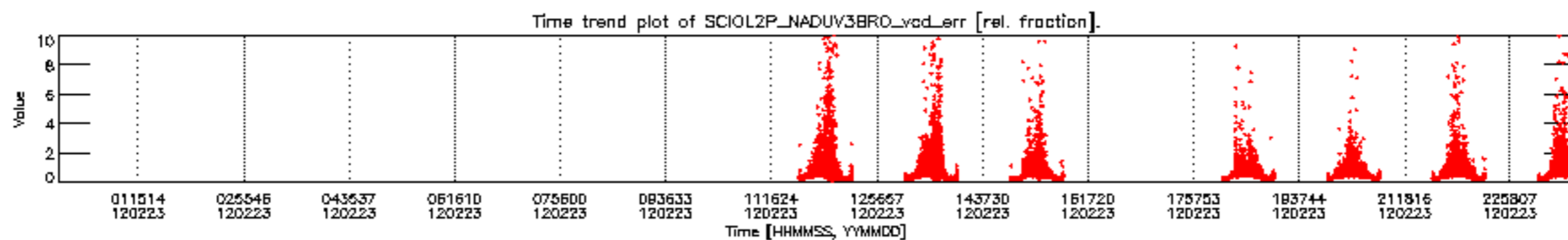
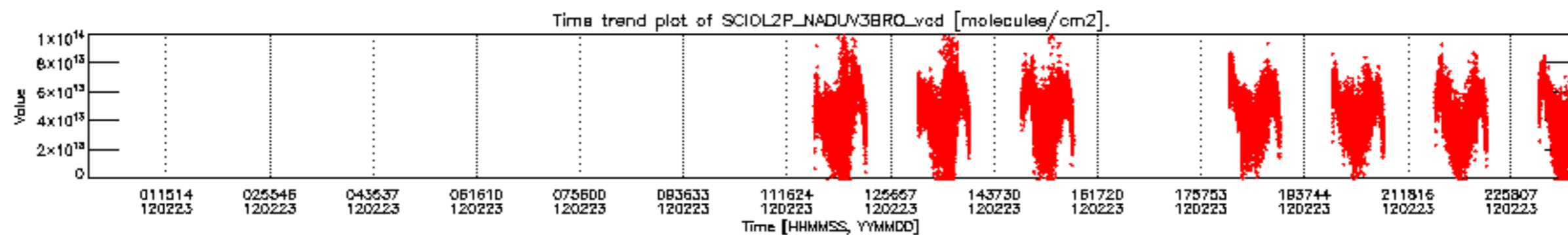


SCIOL2P_NADUV1N02_amf_gr for 23FEB2012 00:00:00 to 24FEB2012 00:00:00

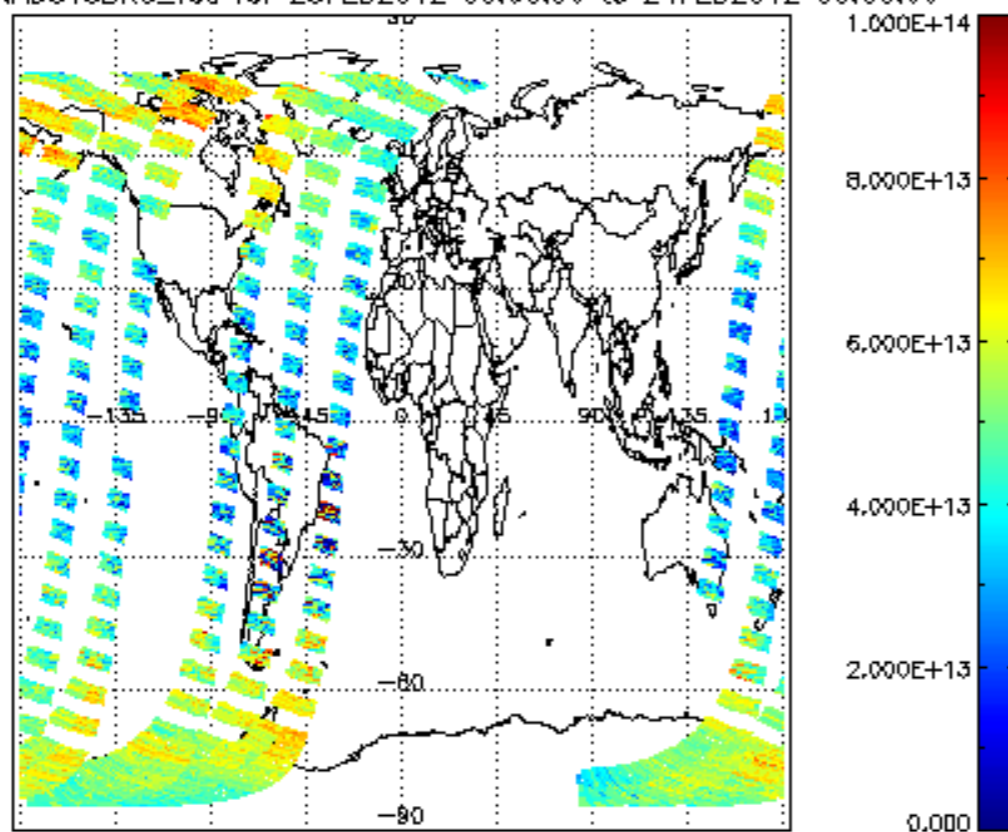


SCIOL2P_NADUV1N02_amf_cl for 23FEB2012 00:00:00 to 24FEB2012 00:00:00

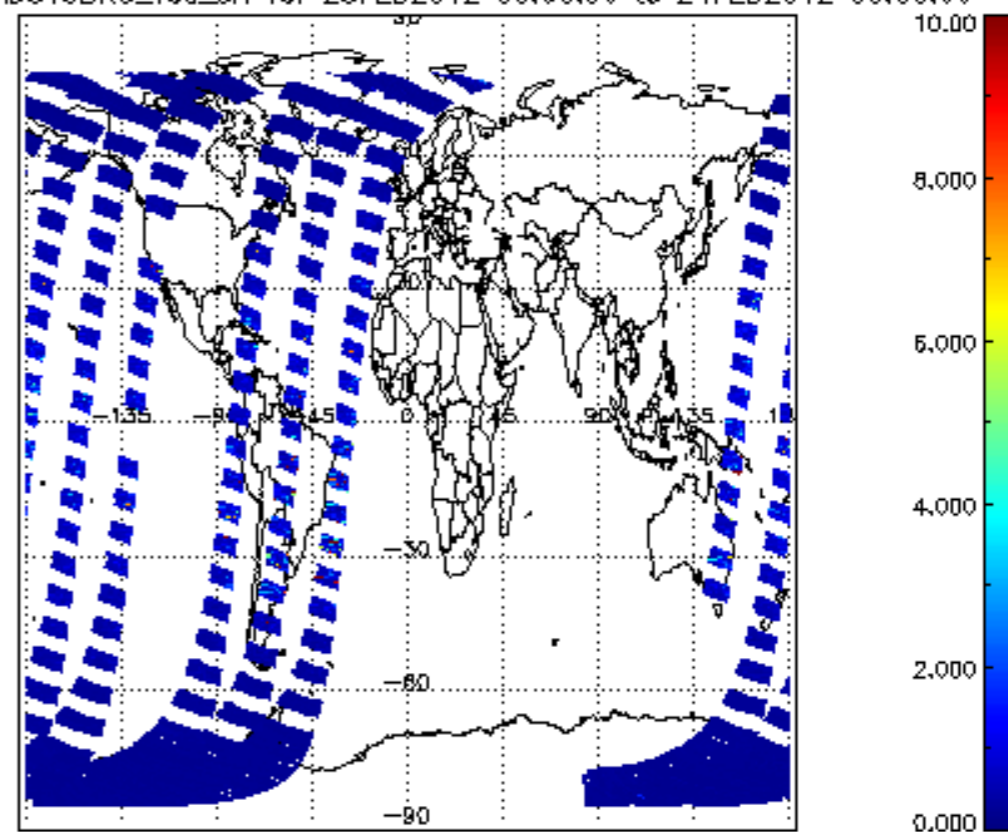




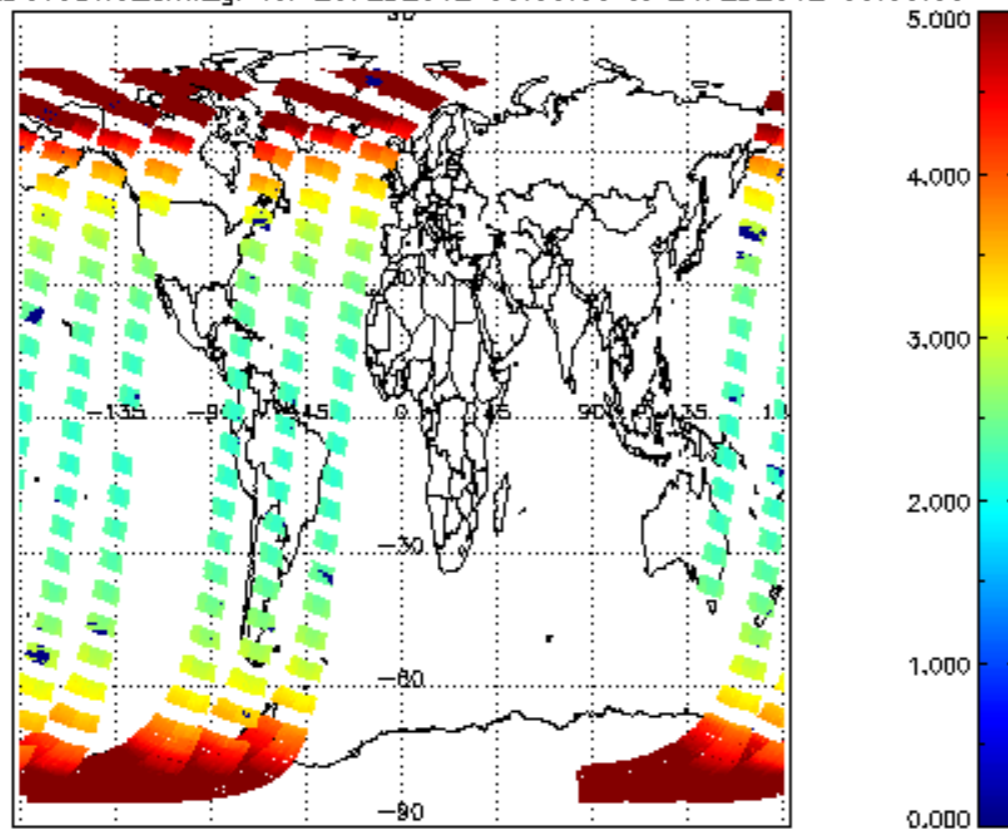
SCIOL2P_NADUV3BRO_vcd for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



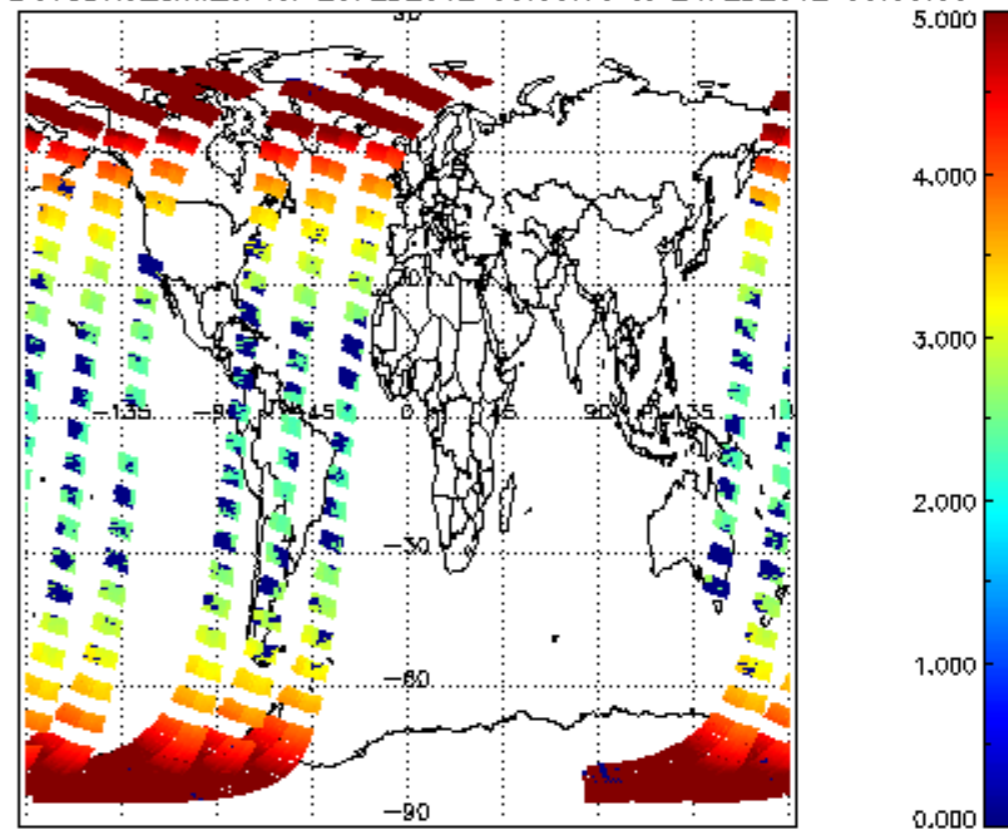
SCIOL2P_NADUV3BRO_vcd_err for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



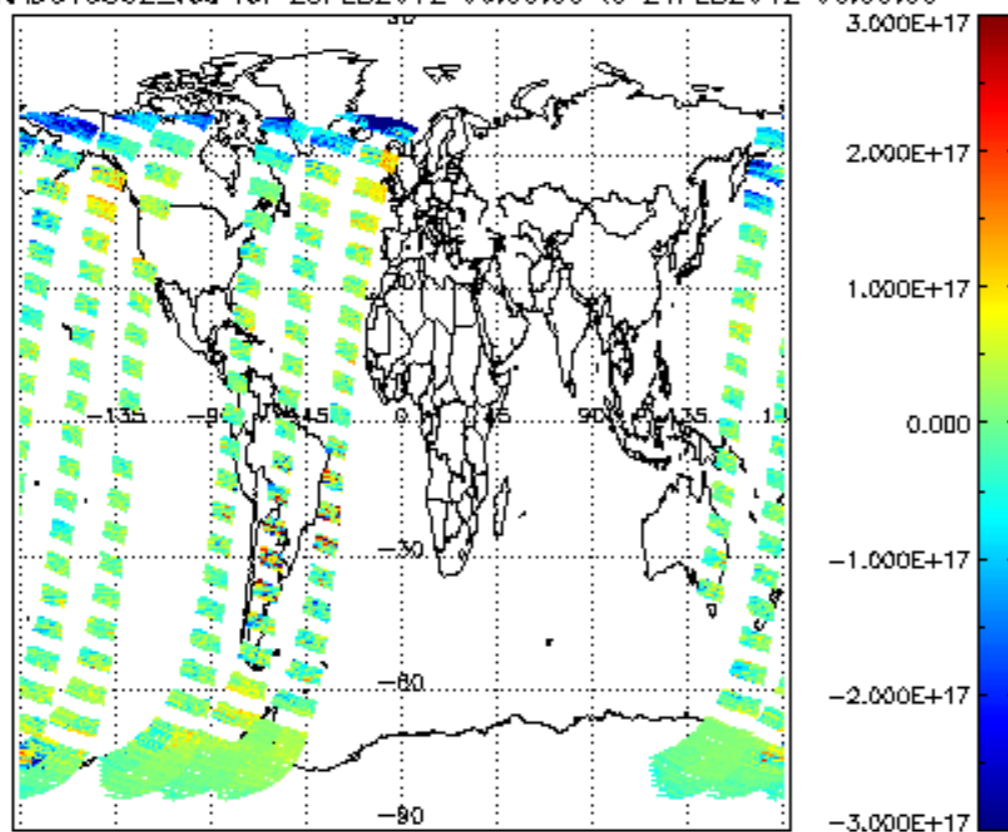
SCIOL2P_NADUV3BRO_amf_gr for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



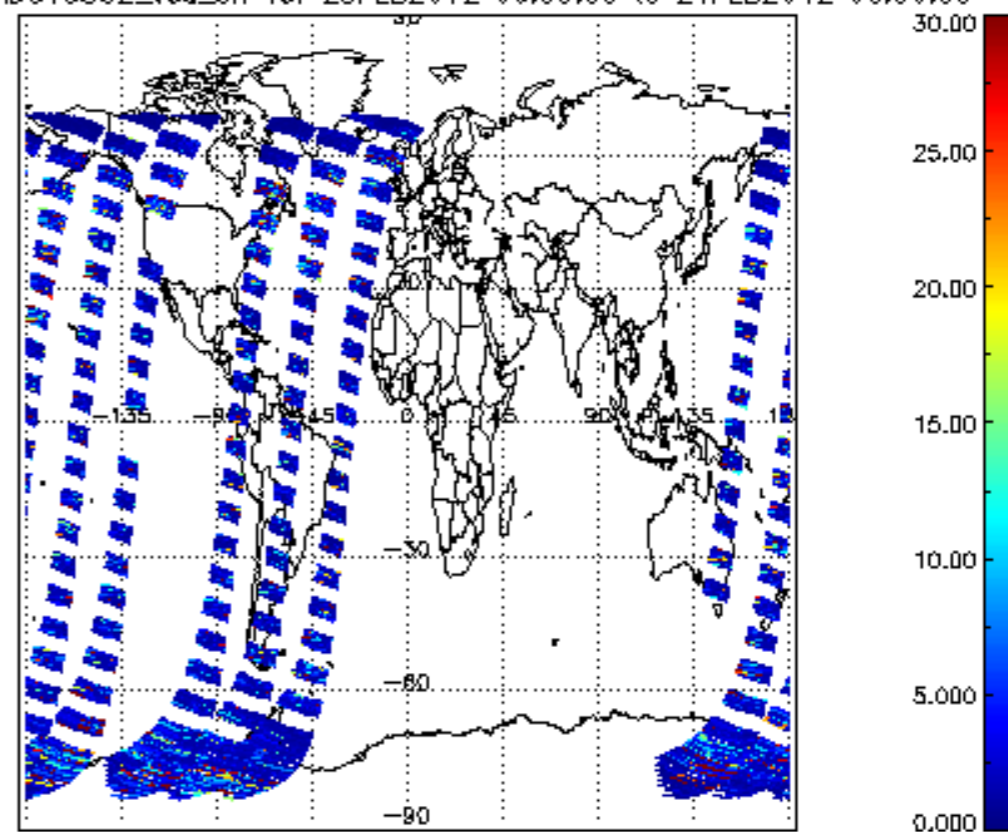
SCIOL2P_NADUV3BRO_amf_cl for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



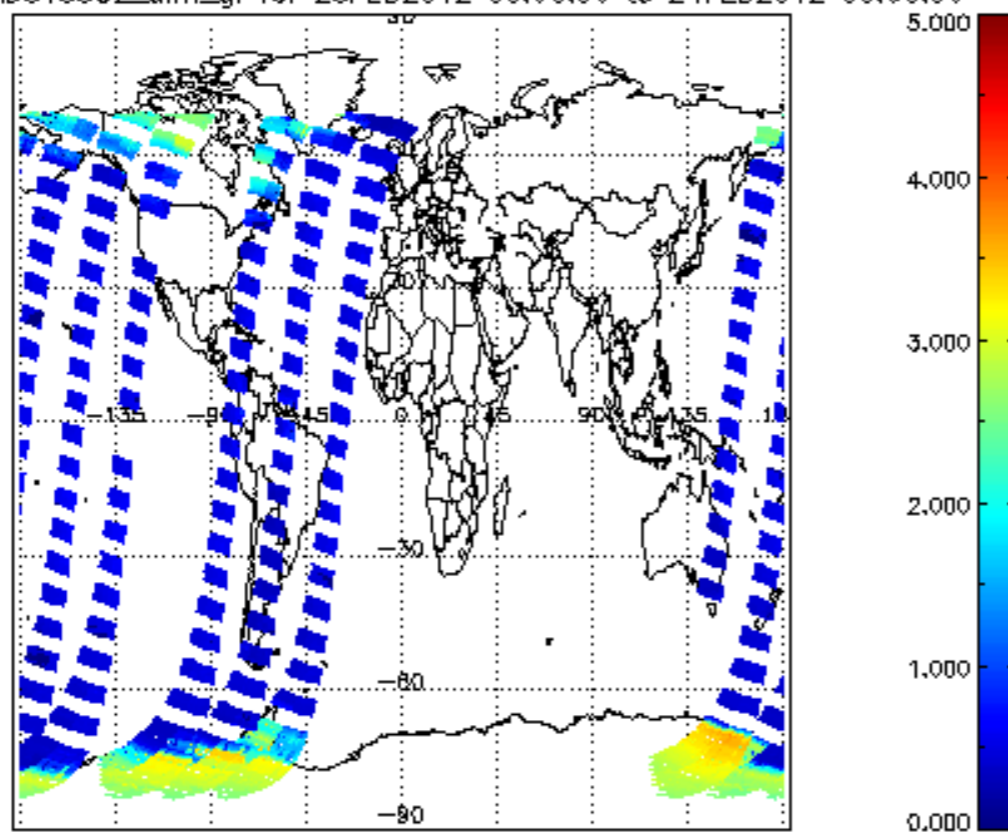
SCIOL2P_NADUV5S02_vcd for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



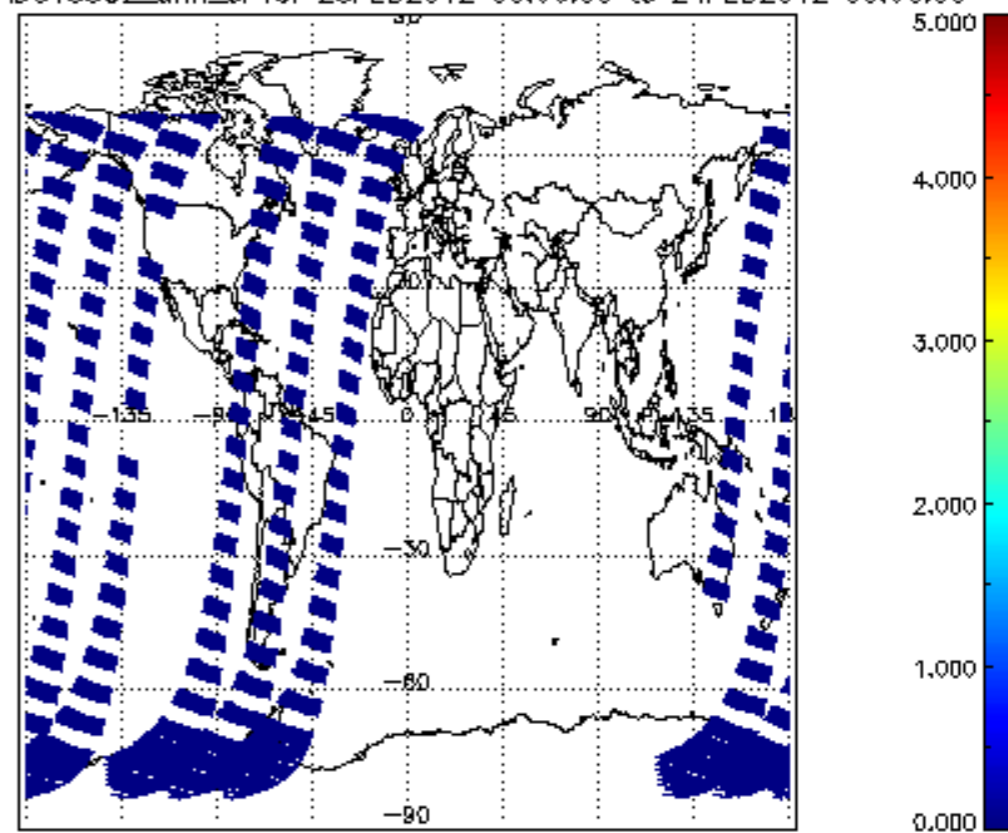
SCIOL2P_NADUV5S02_vcd_err for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



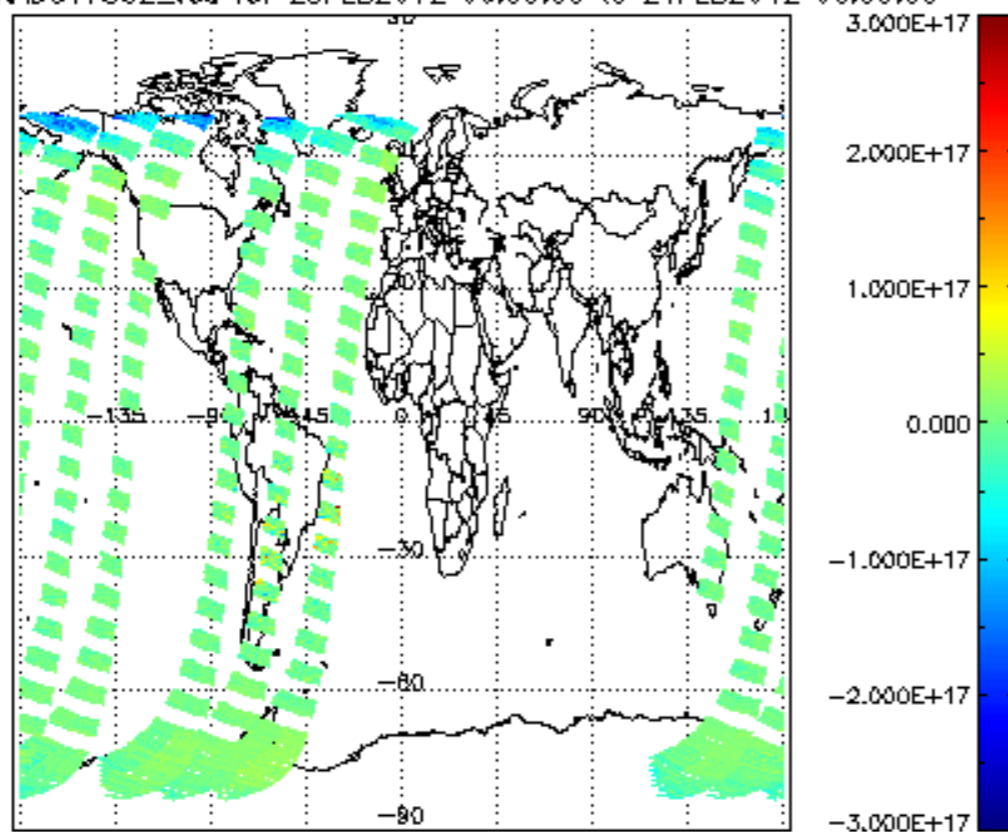
SCIOL2P_NADUV5S02_amf_gr for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



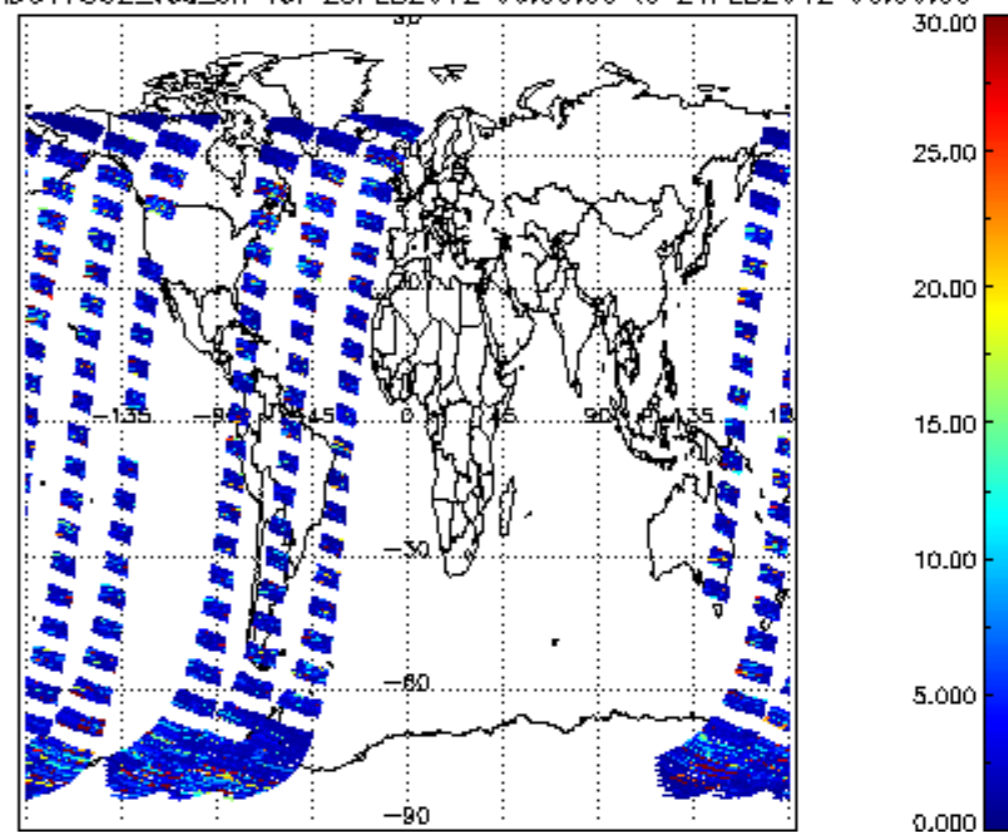
SCIOL2P_NADUV5S02_amf_cl for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



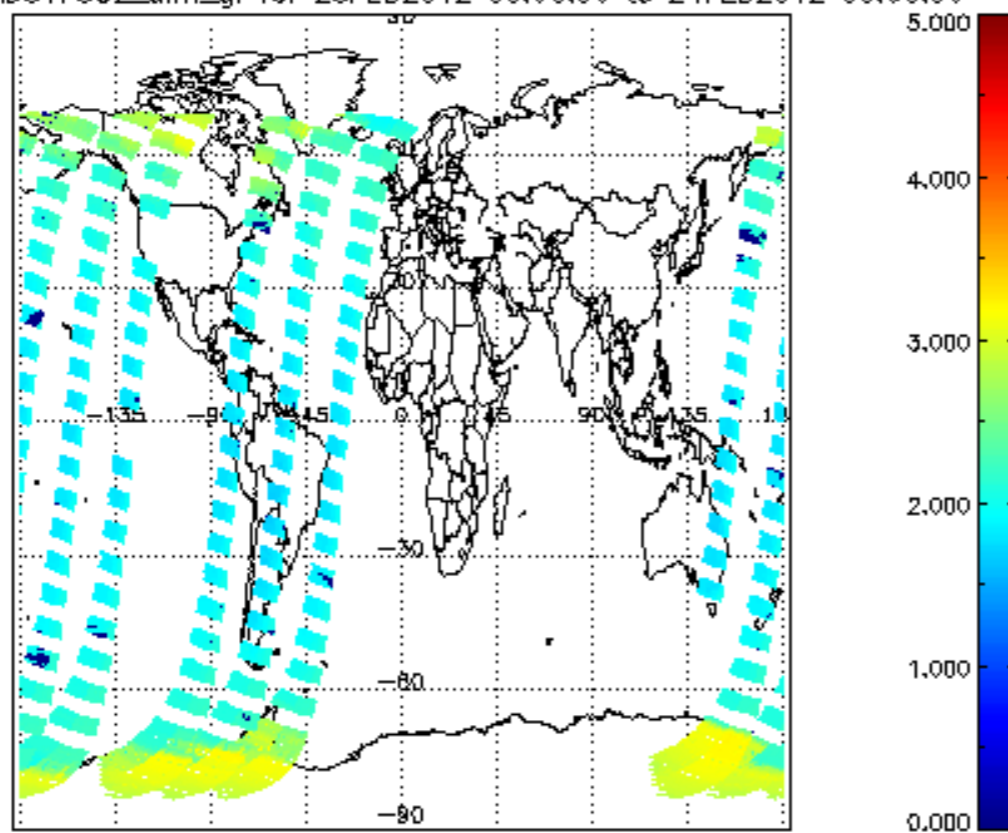
SCIOL2P_NADUV7S02_vcd for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



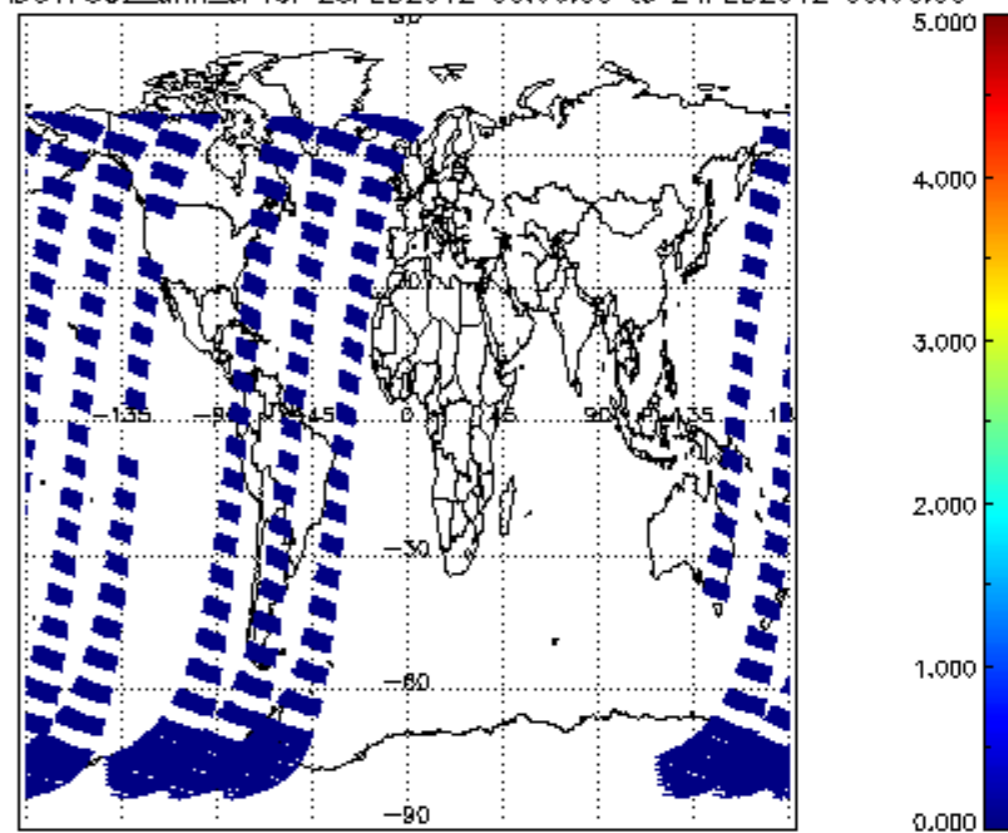
SCIOL2P_NADUV7S02_vcd_err for 23FEB2012 00:00:00 to 24FEB2012 00:00:00

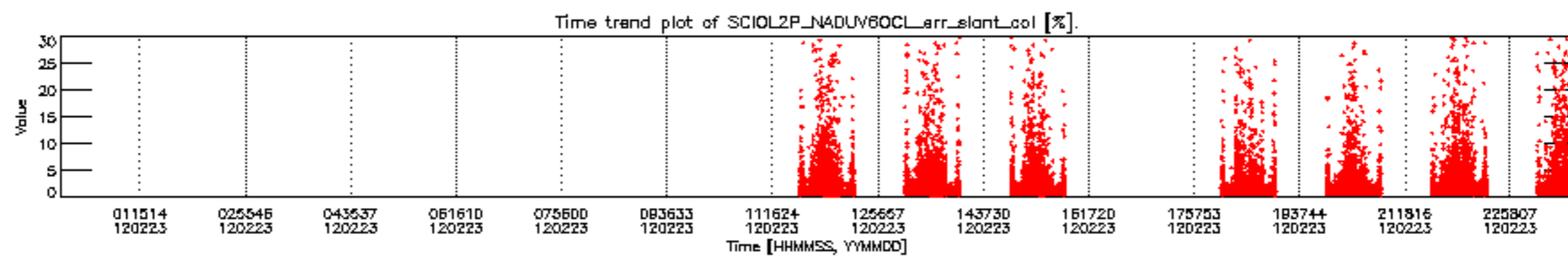
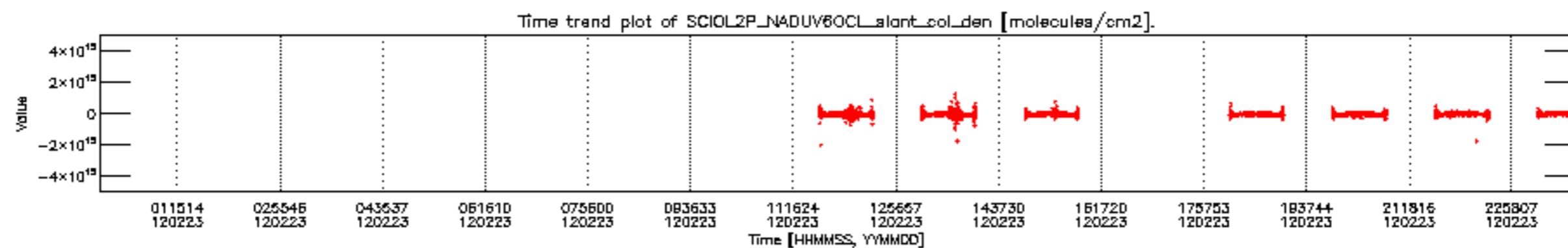


SCIOL2P_NADUV7S02_amf_gr for 23FEB2012 00:00:00 to 24FEB2012 00:00:00

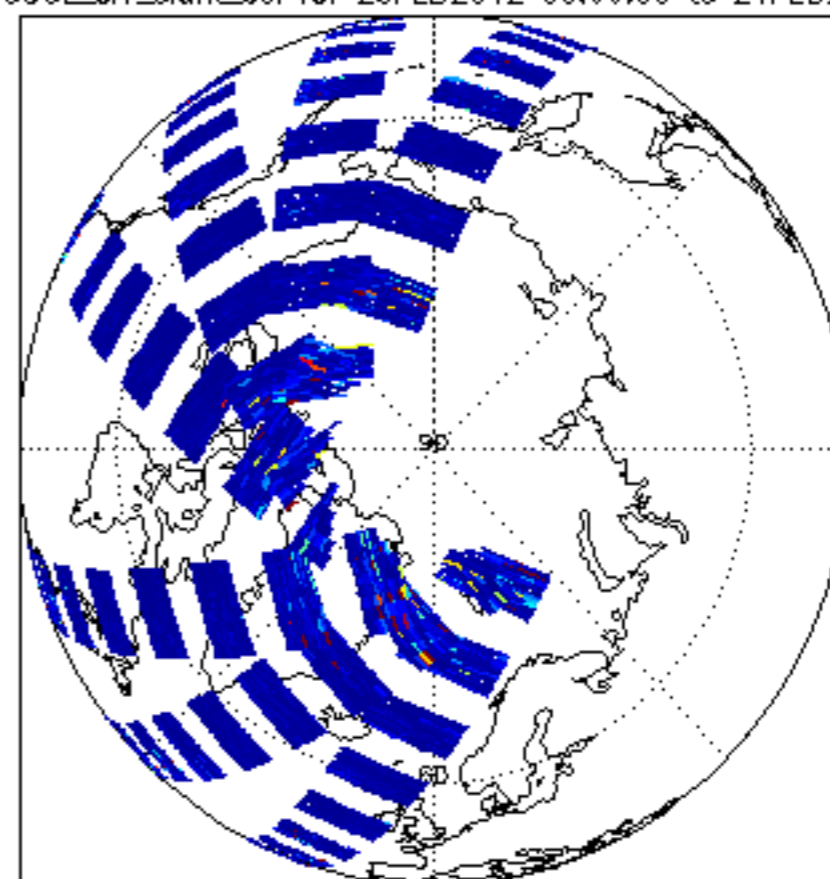
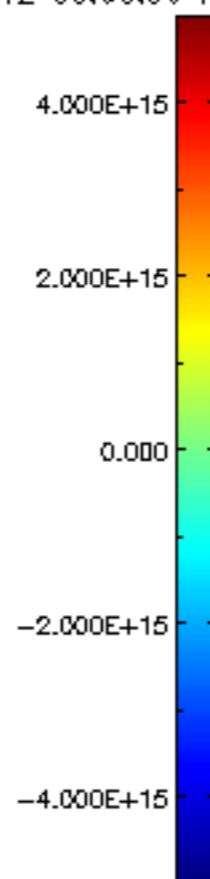
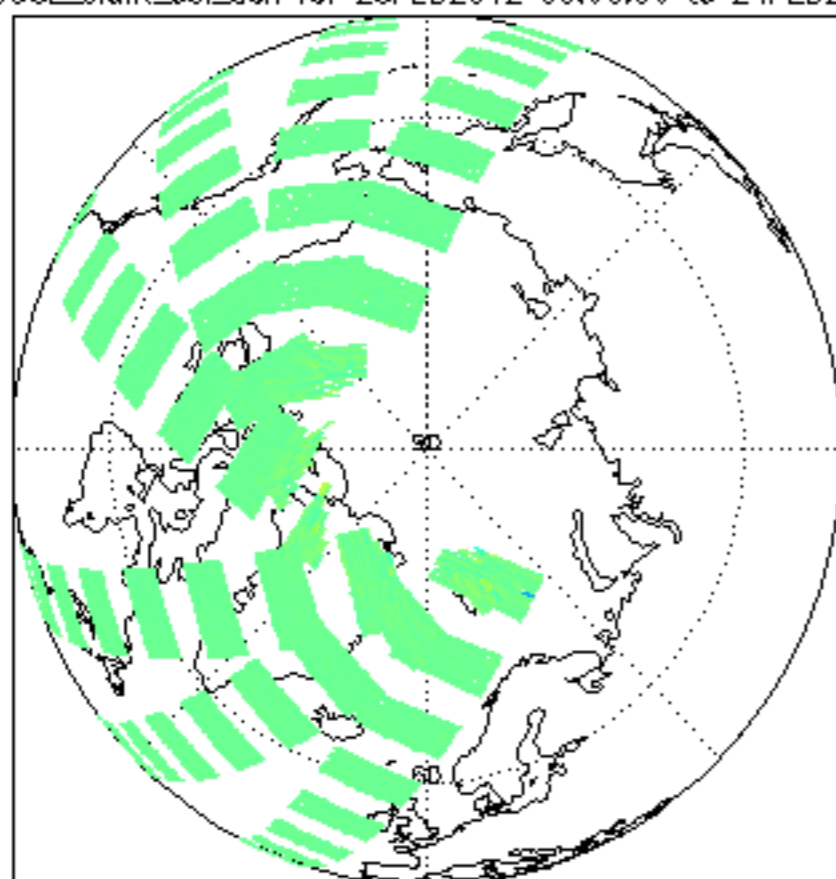


SCIOL2P_NADUV7S02_amf_cl for 23FEB2012 00:00:00 to 24FEB2012 00:00:00

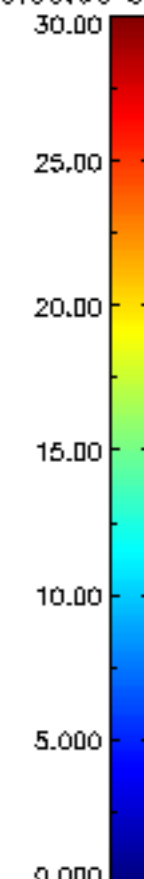
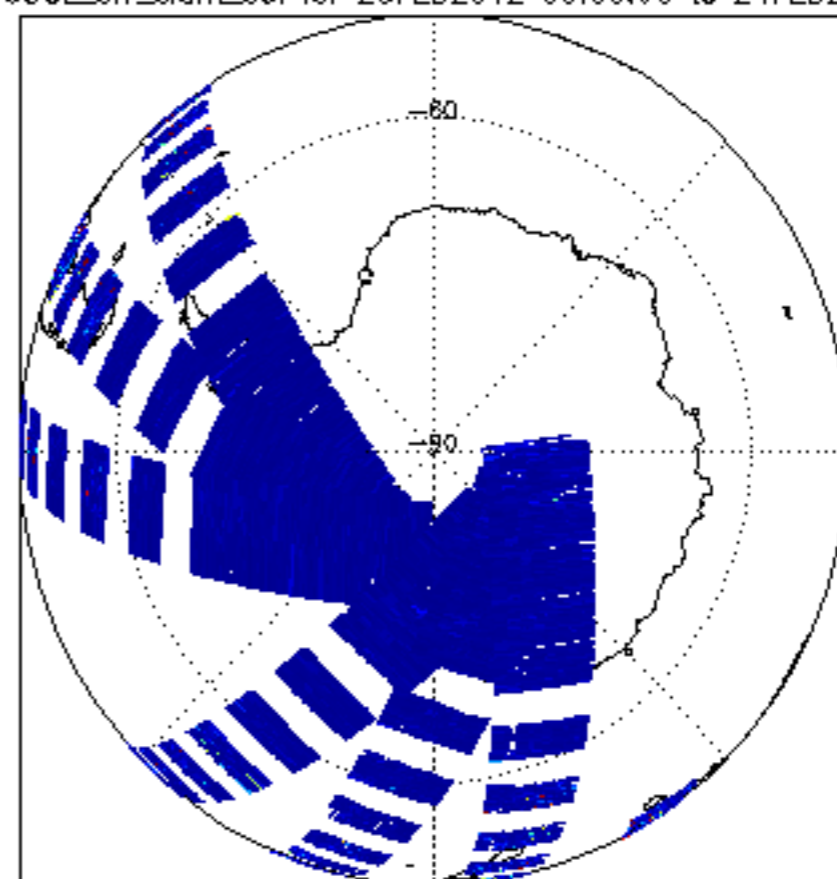
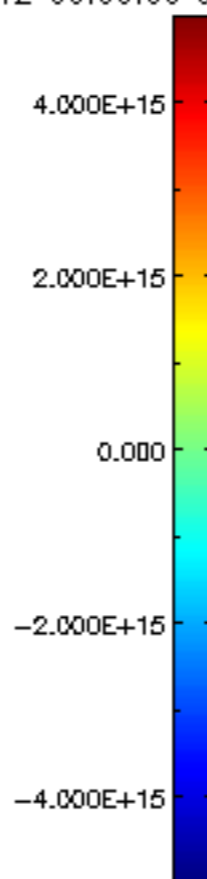
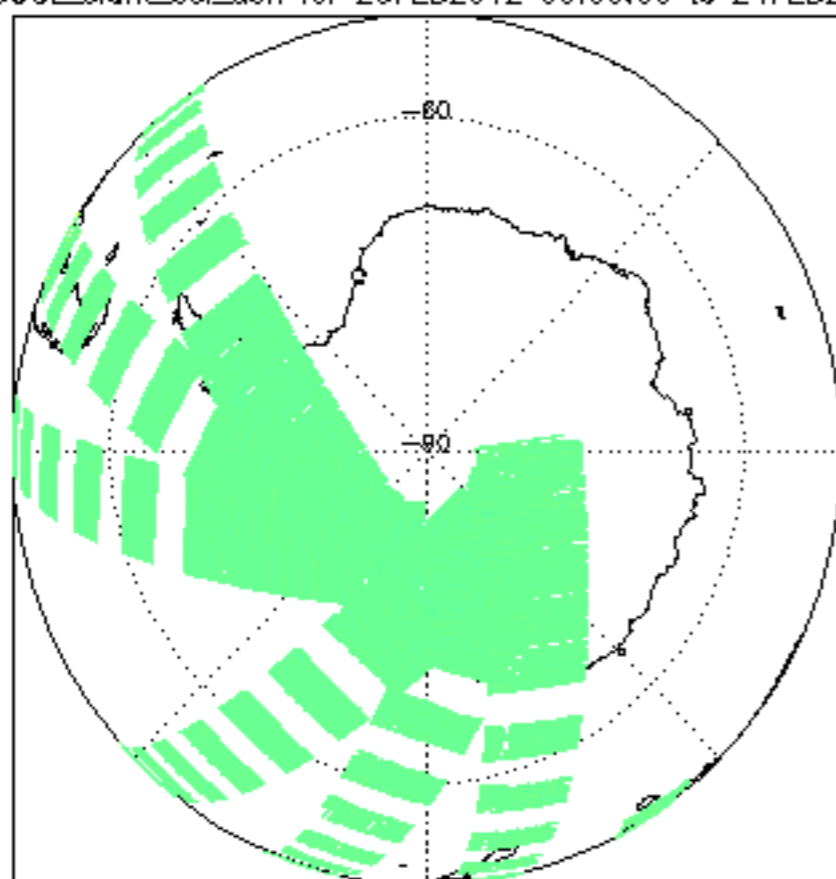




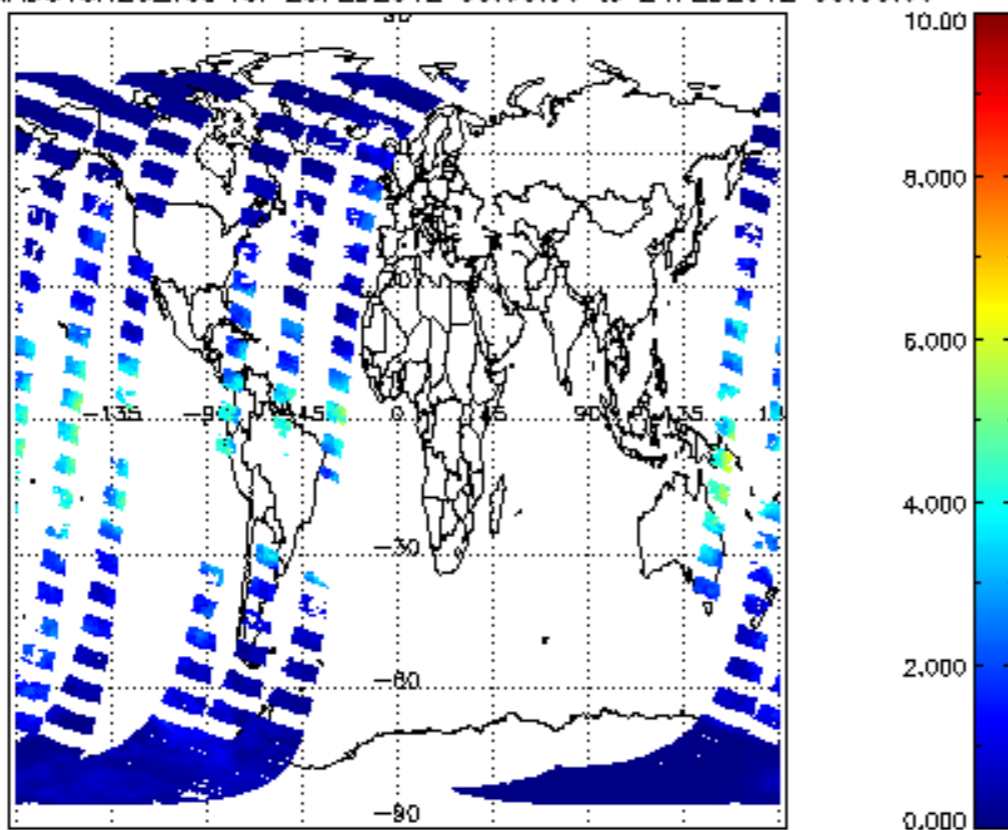
CIOL2P_NADUV6OCL_slant_col_den for 23FEB2012 00:00:00 to 24FEB2012 00:00:00 np; CIOL2P_NADUV6OCL_err_slant_col for 23FEB2012 00:00:00 to 24FEB2012 00:00:00 np



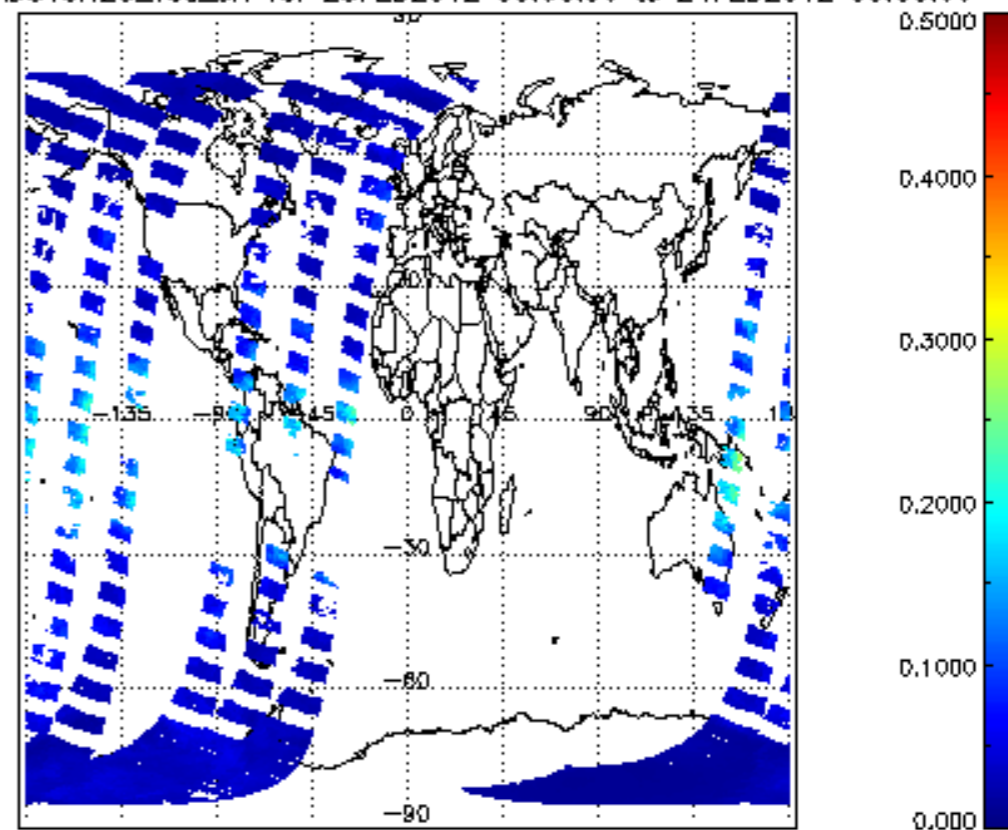
CIOL2P_NADUV6OCL_slant_col_den for 23FEB2012 00:00:00 to 24FEB2012 00:00:00 sp; CIOL2P_NADUV6OCL_err_slant_col for 23FEB2012 00:00:00 to 24FEB2012 00:00:00 sp



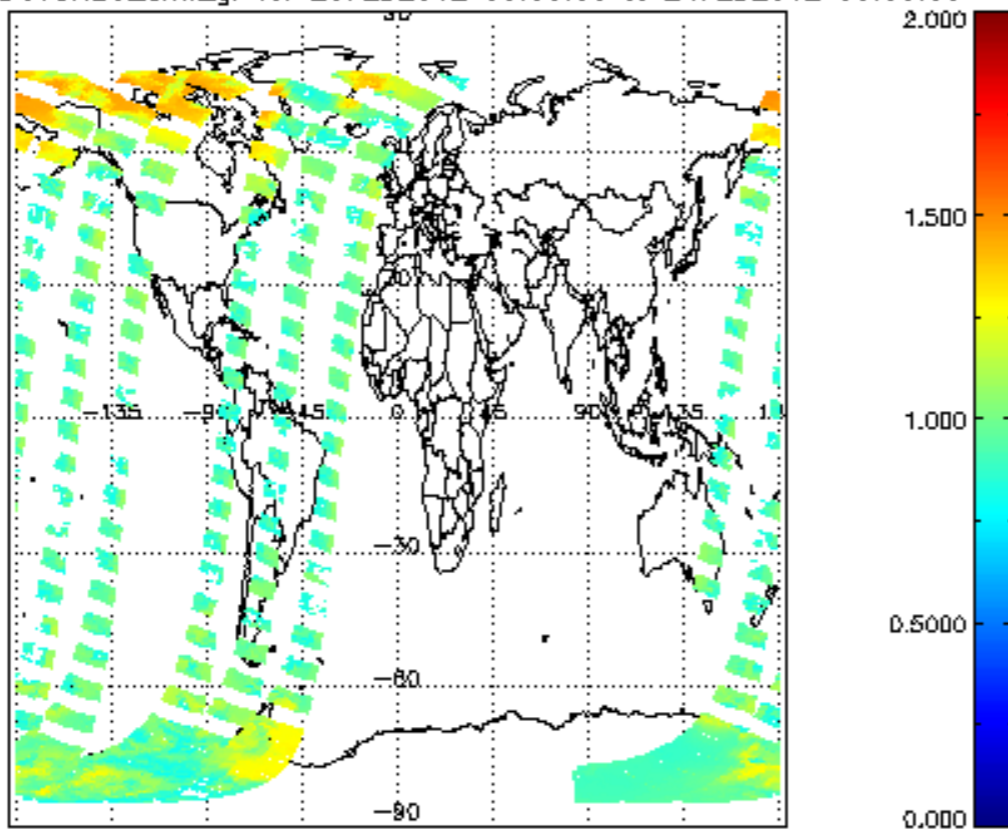
SCIOL2P_NADUV8H20_vcd for 23FEB2012 00:00:00 to 24FEB2012 00:00:00

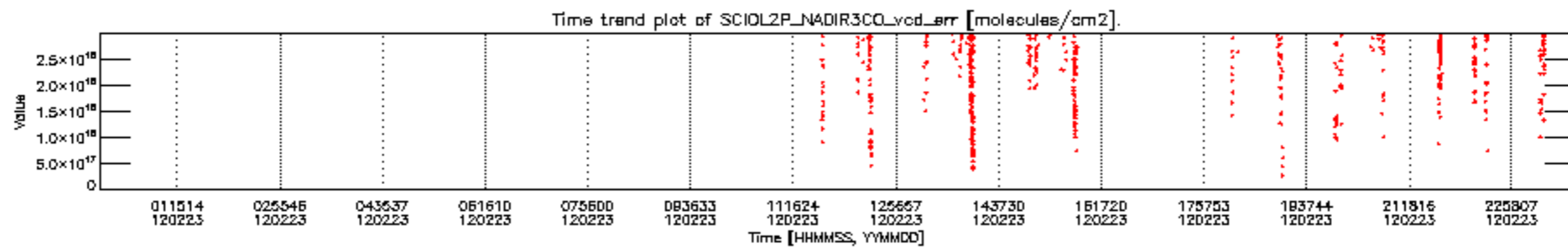
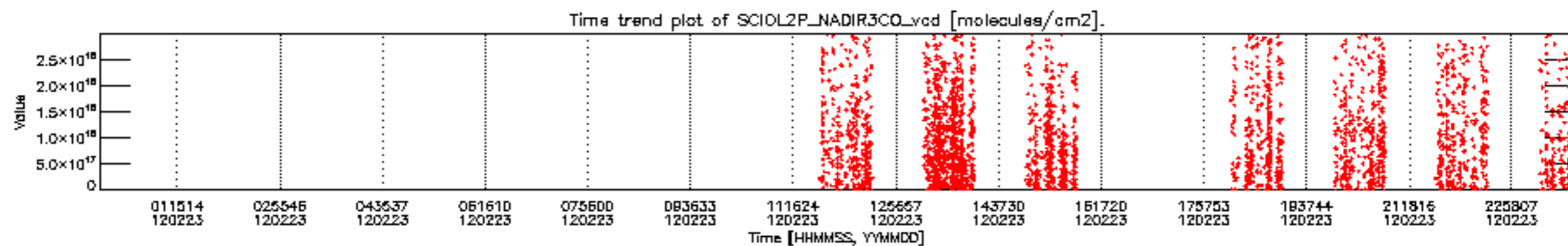


SCIOL2P_NADUV8H20_vcd_err for 23FEB2012 00:00:00 to 24FEB2012 00:00:00

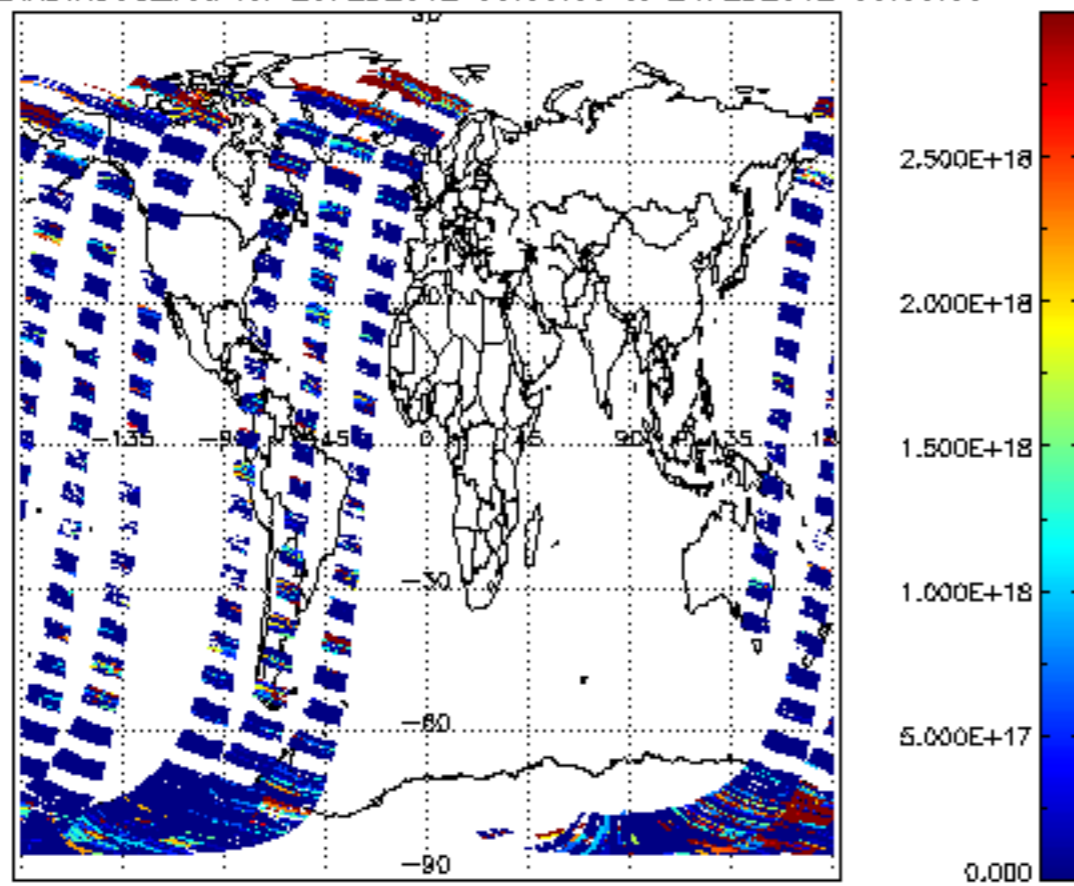


SCIOL2P_NADUV8H20_amf_gr for 23FEB2012 00:00:00 to 24FEB2012 00:00:00

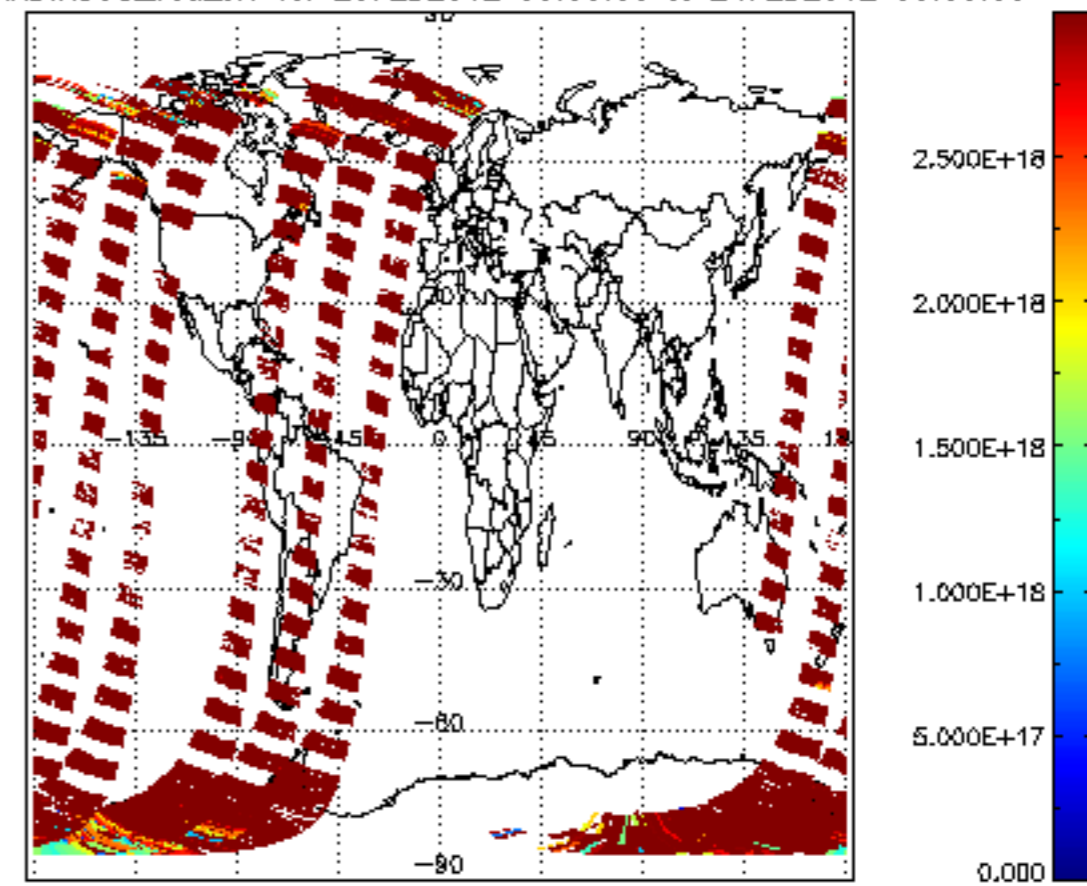




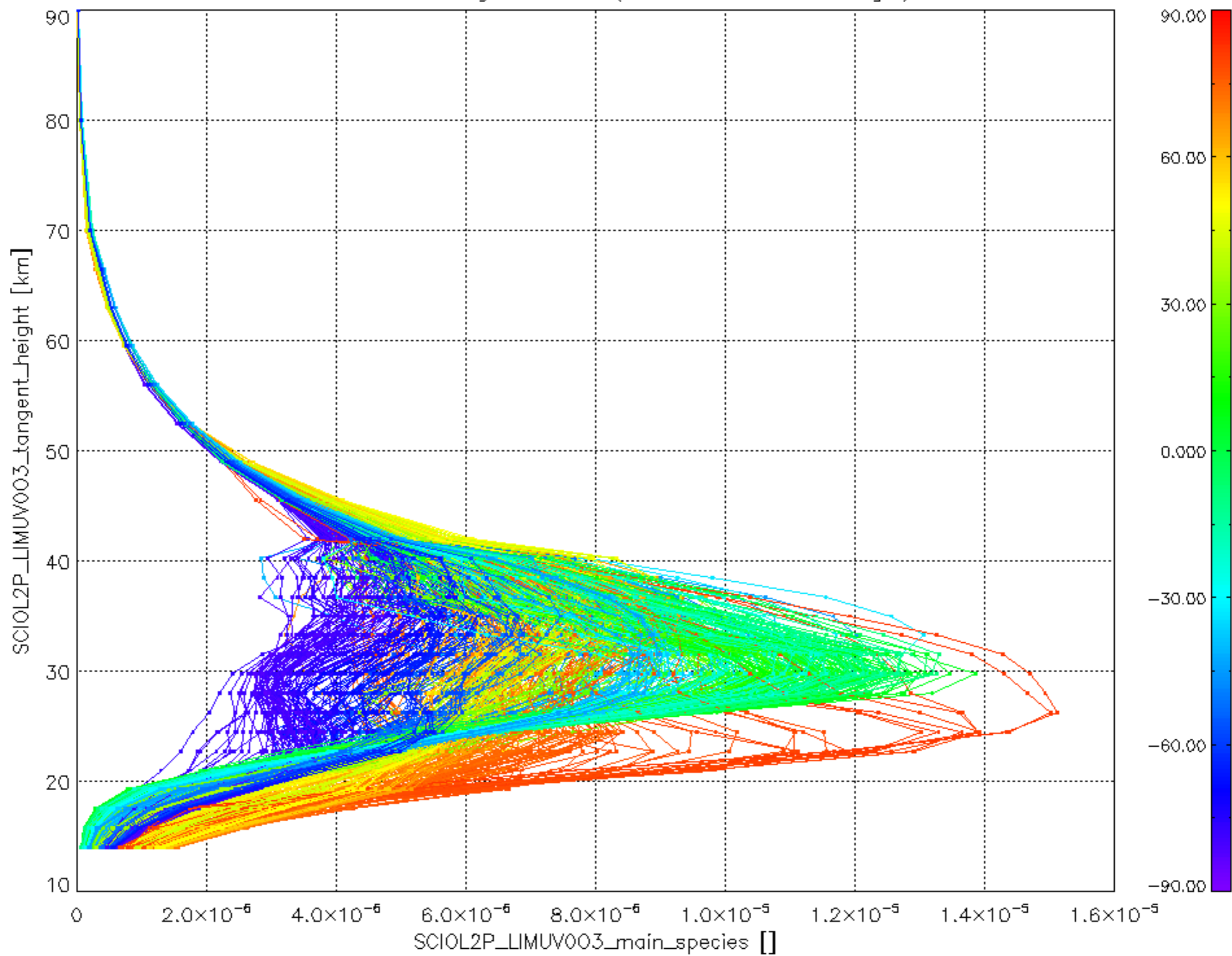
SCIOL2P_NADIR3CO_vcd for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



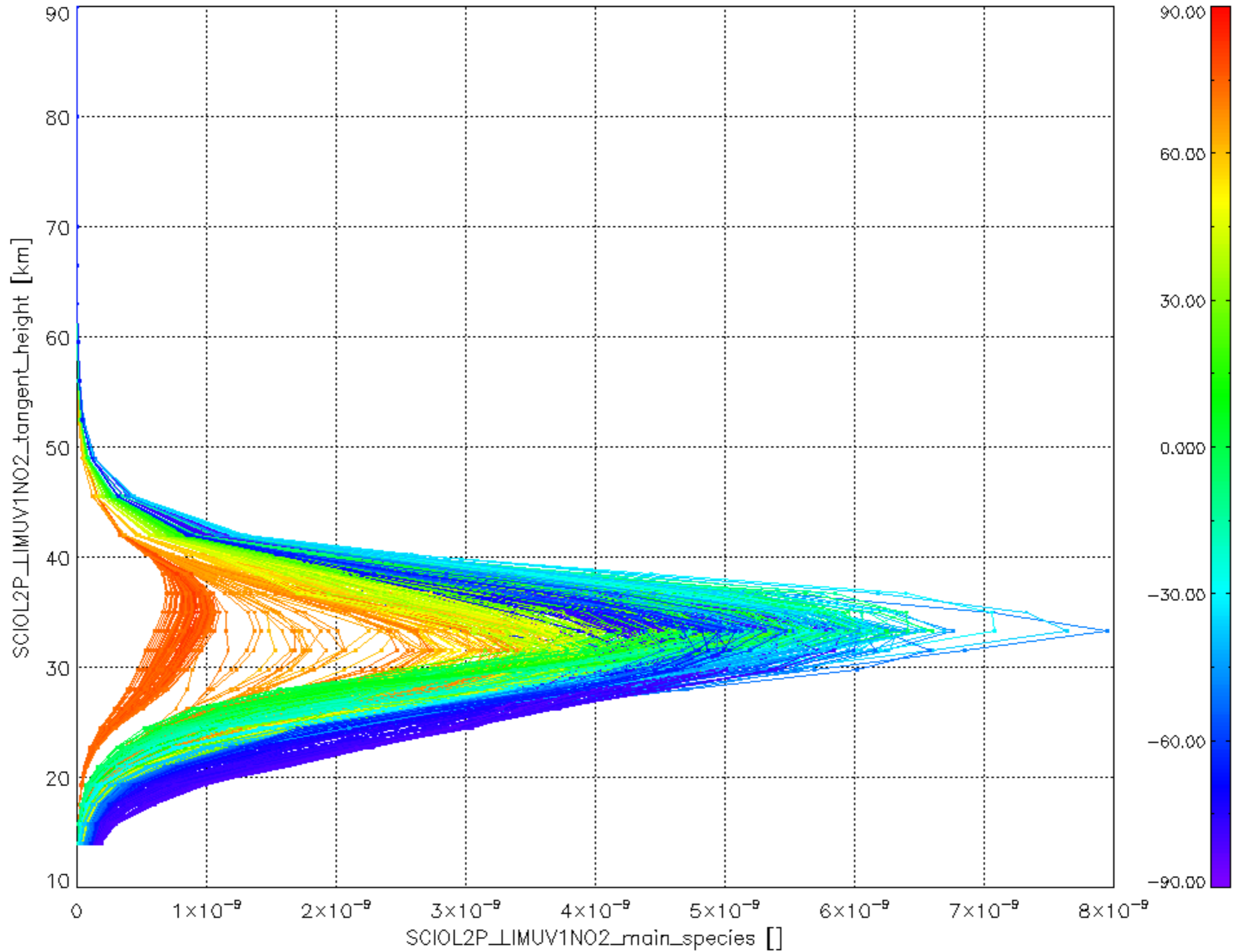
SCIOL2P_NADIR3CO_vcd_err for 23FEB2012 00:00:00 to 24FEB2012 00:00:00



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).

