

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	16FEB2012 03:21:33
Data source version	SCIA-OL/5.02-W
Processing scope for products	03FEB2012 00:00:00 to 04FEB2012 00:00:00
Start time of first product within scope	02FEB2012 22:49:46
Stop time of last product within scope	04FEB2012 00:51:43
Total number of level 2 products	15
Number of level 2 products with errors	0

2.1.2 Summary per product

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

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

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

#	Product name	Start time	Stop time	Prod err	Fit summary
0	SCI_OL__2PWDPA20120202_224946_000035303111_00188_51926_3362.N1	02FEB2012 22:49:46	02FEB2012 23:48:36	0	GOOD
1	SCI_OL__2PWDPA20120203_002959_000035163111_00189_51927_3363.N1	03FEB2012 00:29:59	03FEB2012 01:28:35	0	GOOD
2	SCI_OL__2PWDPA20120203_042958_000011443111_00191_51929_3364.N1	03FEB2012 04:29:58	03FEB2012 04:49:02	0	GOOD
3	SCI_OL__2PWDPA20120203_053040_000035303111_00192_51930_3365.N1	03FEB2012 05:30:40	03FEB2012 06:29:30	0	GOOD
4	SCI_OL__2PWDPA20120203_071053_000035163111_00193_51931_3366.N1	03FEB2012 07:10:53	03FEB2012 08:09:30	0	GOOD

5	SCI_OL__2PWDPA20120203_085107_000035303111_00194_51932_3367.N1	03FEB2012 08:51:07	03FEB2012 09:49:57	0	GOOD
6	SCI_OL__2PWDPA20120203_103120_000035163111_00195_51933_3373.N1	03FEB2012 10:31:20	03FEB2012 11:29:57	0	GOOD
7	SCI_OL__2PWDPA20120203_121134_000035303111_00196_51934_3368.N1	03FEB2012 12:11:34	03FEB2012 13:10:24	0	GOOD
8	SCI_OL__2PWDPA20120203_135147_000035163111_00197_51935_3369.N1	03FEB2012 13:51:47	03FEB2012 14:50:24	0	GOOD
9	SCI_OL__2PWDPA20120203_153201_000035303111_00198_51936_3370.N1	03FEB2012 15:32:01	03FEB2012 16:30:51	0	GOOD
10	SCI_OL__2PWDPA20120203_171214_000035163111_00199_51937_3371.N1	03FEB2012 17:12:14	03FEB2012 18:10:51	0	GOOD
11	SCI_OL__2PWDPA20120203_185335_000034683111_00200_51938_3372.N1	03FEB2012 18:53:35	03FEB2012 19:51:24	0	GOOD
12	SCI_OL__2PWDPA20120203_203302_000034993111_00201_51939_3374.N1	03FEB2012 20:33:02	03FEB2012 21:31:21	0	GOOD
13	SCI_OL__2PWDPA20120203_221255_000035173111_00202_51940_3375.N1	03FEB2012 22:12:55	03FEB2012 23:11:32	0	GOOD
14	SCI_OL__2PWDPA20120203_235309_000035143111_00203_51941_3376.N1	03FEB2012 23:53:09	04FEB2012 00:51:43	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: 133380

Total number of cloud data DSRs with good quality flag (=0): 133380 (100.0 %)

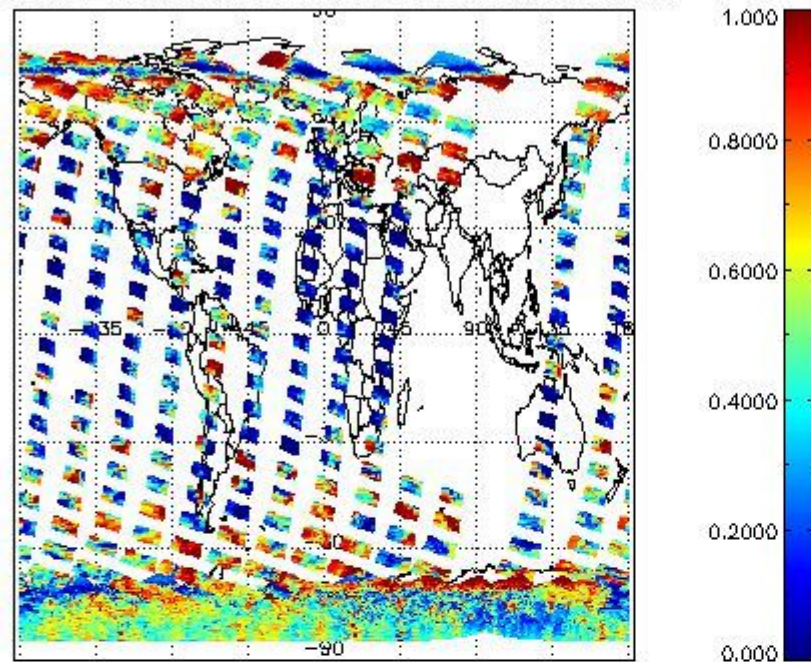
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	133380	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	133380	0.16472	0.12500	0.12500	0.25000	0.058200	s
CL_FRAC	133380	0.45467	0.44194	0.0000	1.0000	0.30667	
CL_FRAC_ERR	133380	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	133380	5.2710	4.0000	4.0000	8.0000	1.8624	
PMD_READ_CL[0]	133380	0.54157	0.0000	0.0000	8.0000	1.4099	-
PMD_READ_CL[1]	133380	1.0240	0.0000	0.0000	8.0000	2.2959	-
CL_TOP_HEIGHT	107047	3.9032	2.7970	0.0000	17.000	3.6438	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	107047	55.855	48.247	0.0000	101.00	40.482	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	133380	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	133380	11001011	11000100	11000000	11100000	3422.4	
AERO_ABSO_IND	133380	0.088570	0.0000	0.0000	5.4502	0.29401	
AERO_IND_DIAG	133380	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	133380	01010011	00000000	00000000	11000000	24372.	

Time and geolocation plots:

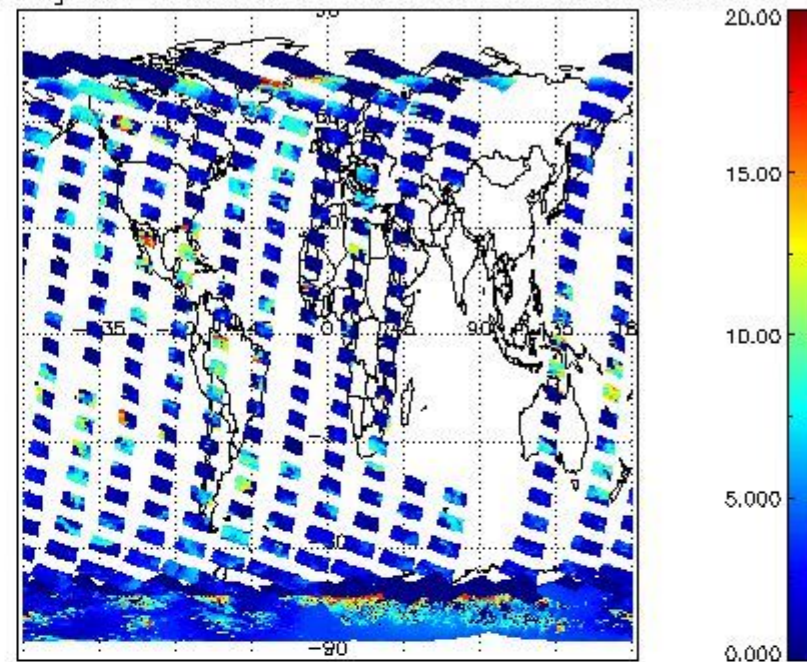
Plots are available for the following parameters:

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

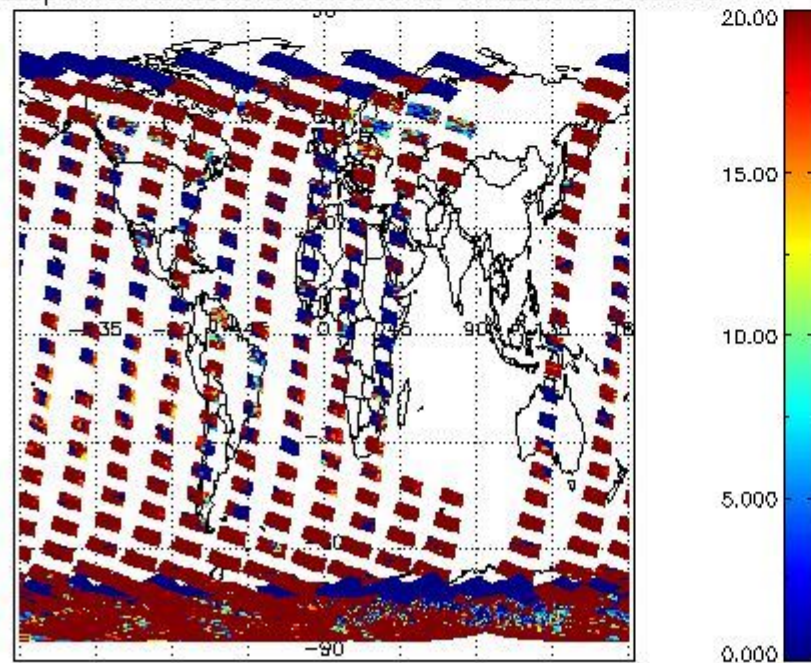
cL_frac for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



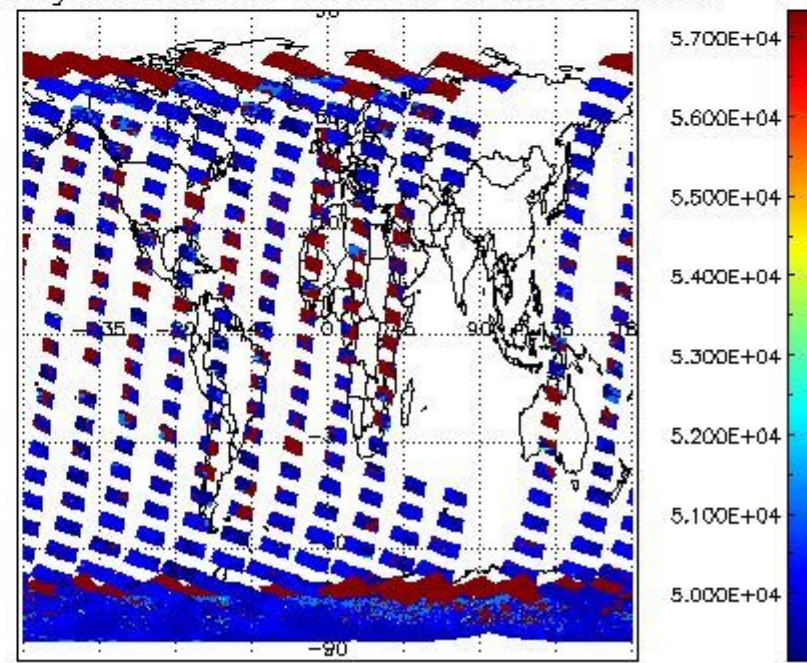
cL_top_height for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



cL_opt_depth for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



cloud_flags for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



2.2.2 Nadir

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

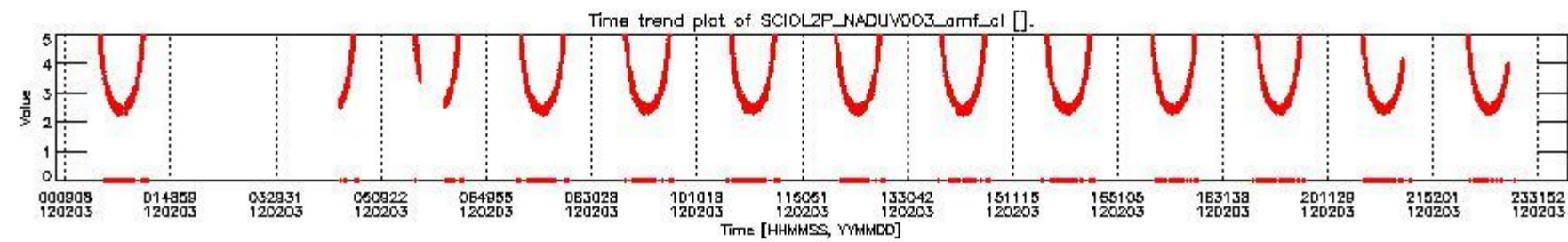
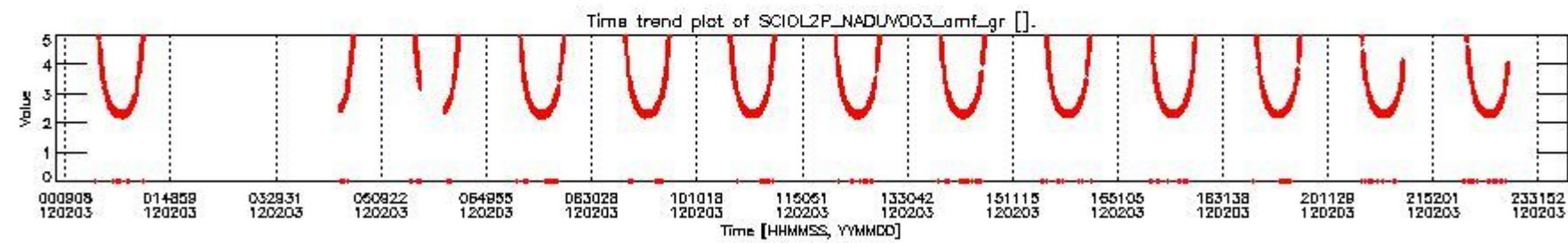
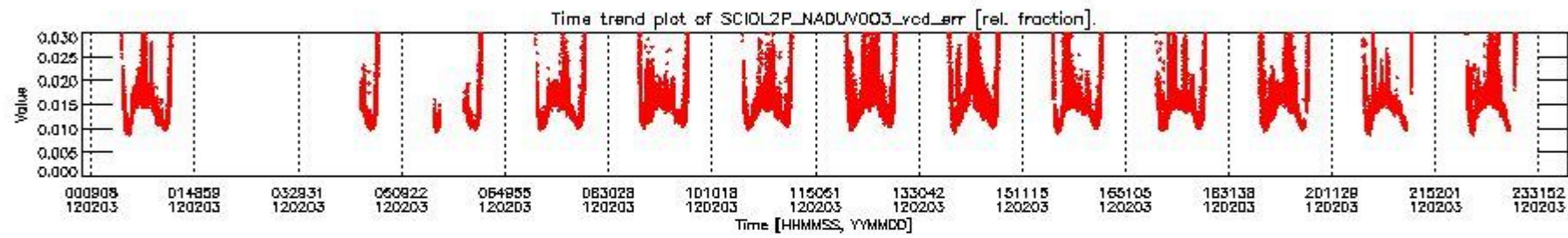
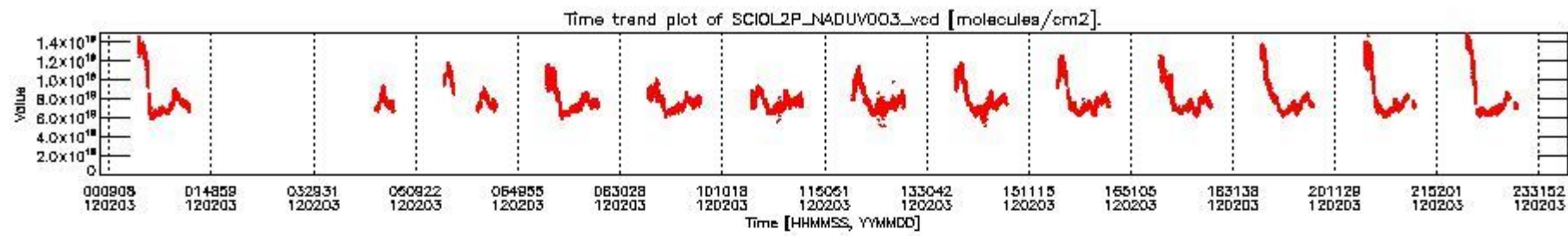
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

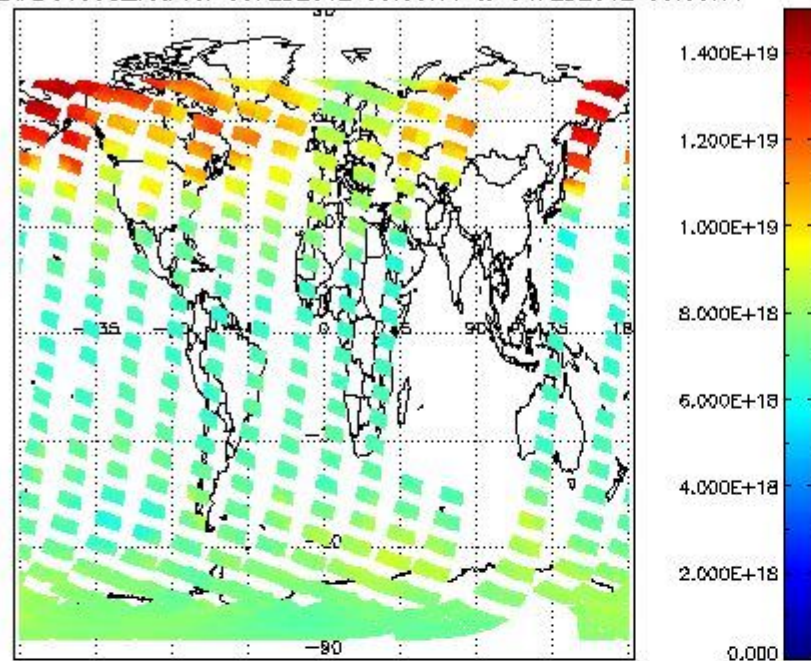
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

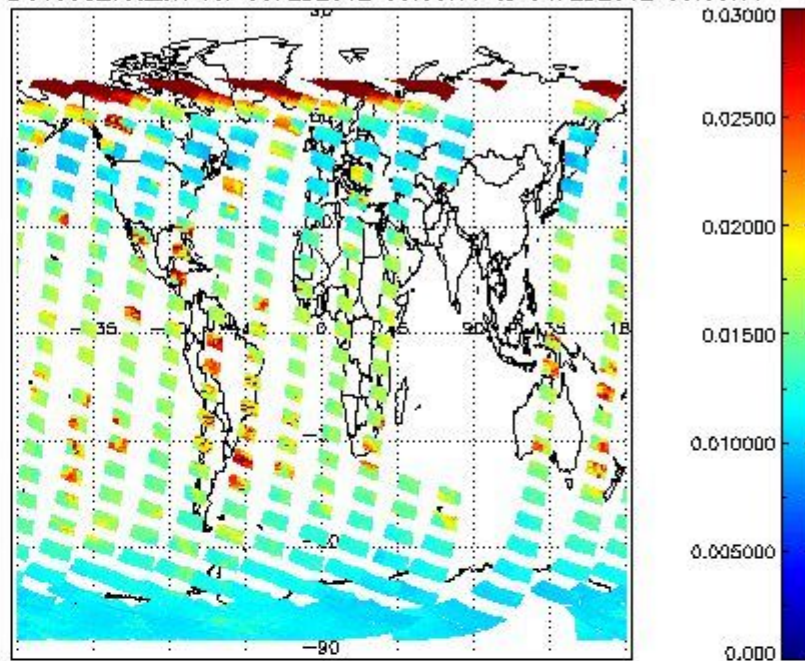
2.2.2.1 O3 (UV0)



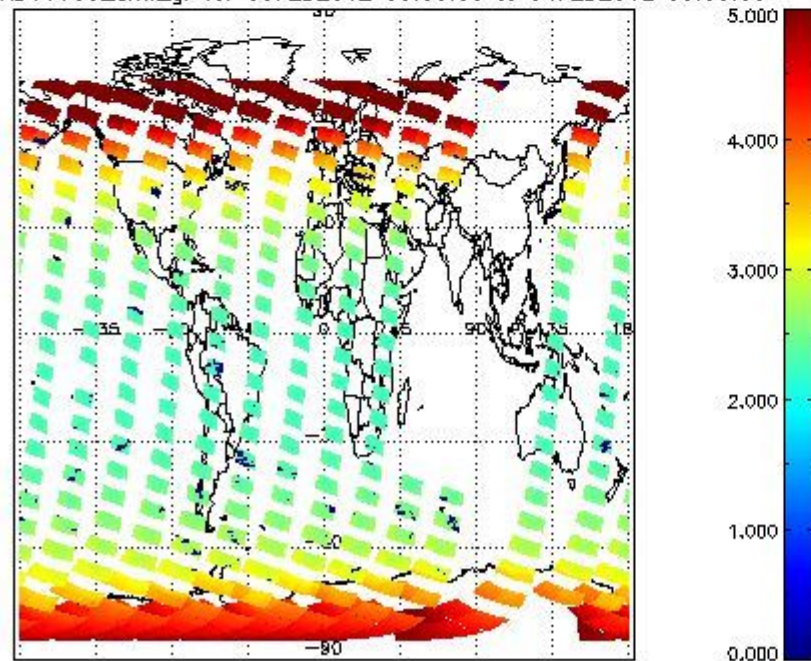
SCIOL2P_NADUV003_vcd for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



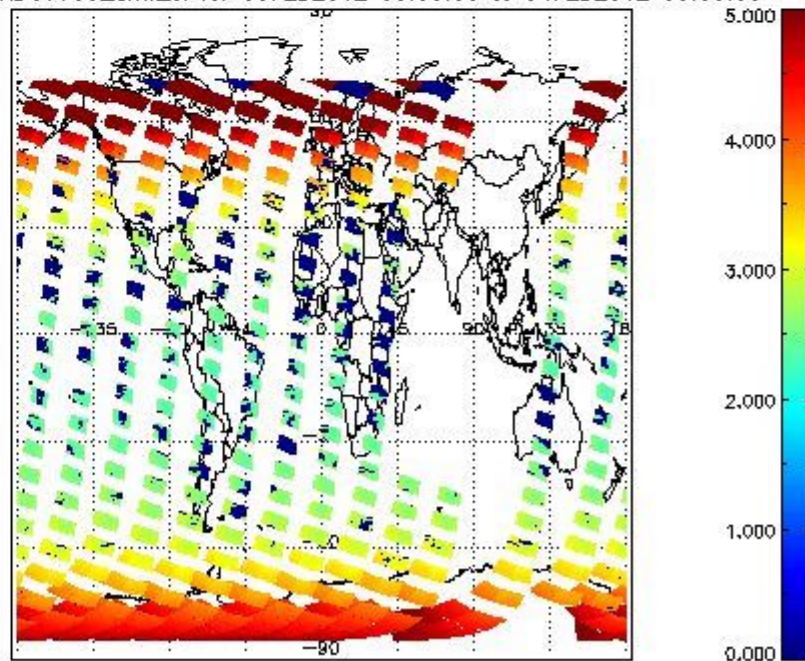
SCIOL2P_NADUV003_vcd_err for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



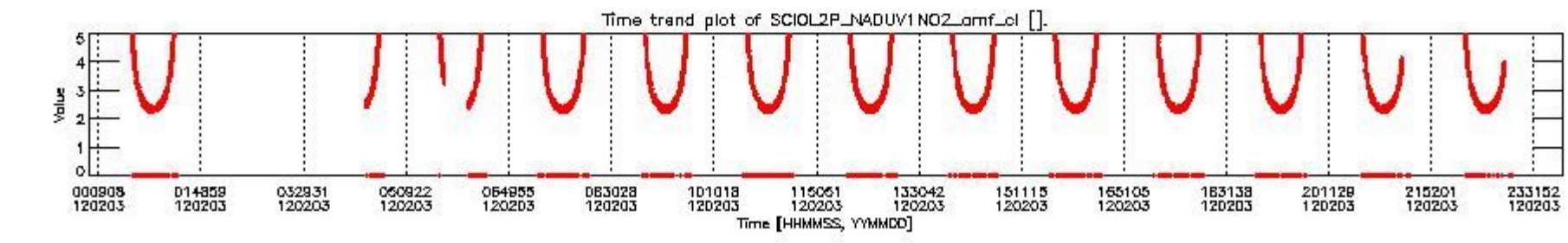
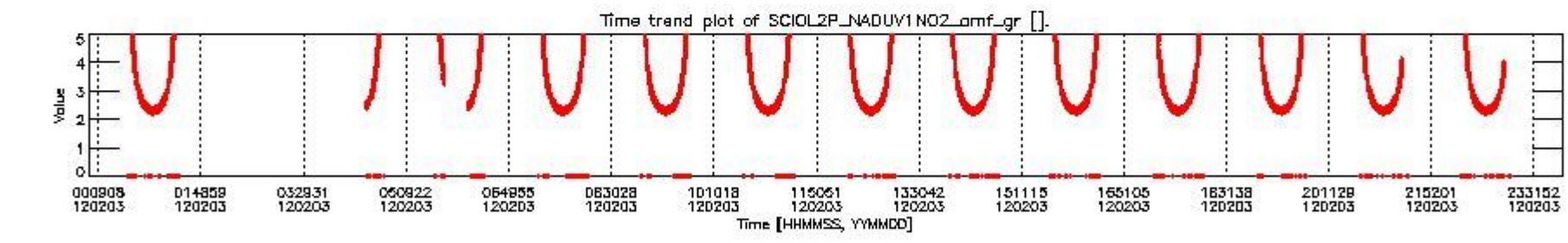
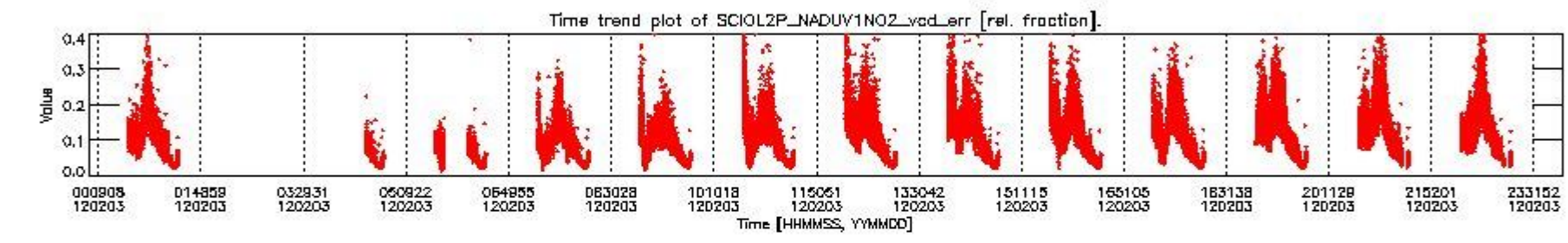
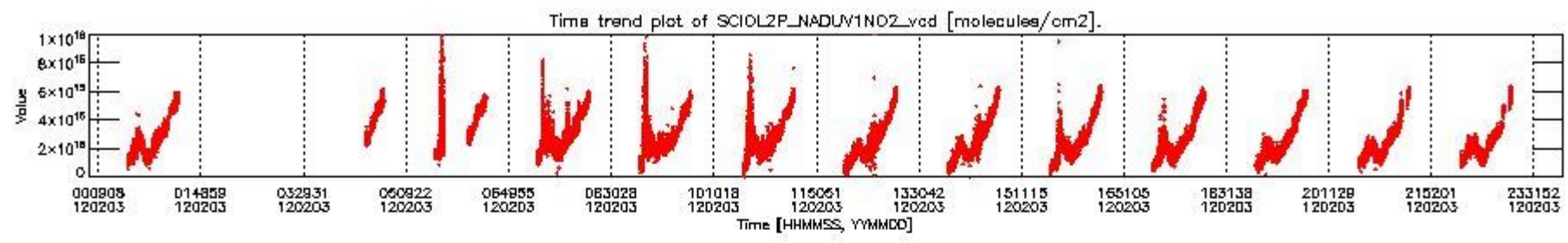
SCIOL2P_NADUV003_amf_gr for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



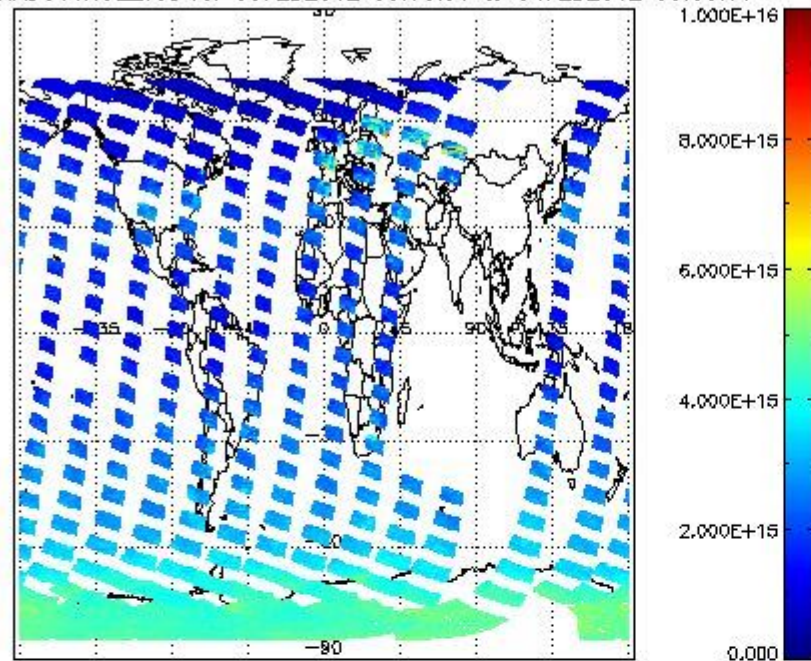
SCIOL2P_NADUV003_amf_cl for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



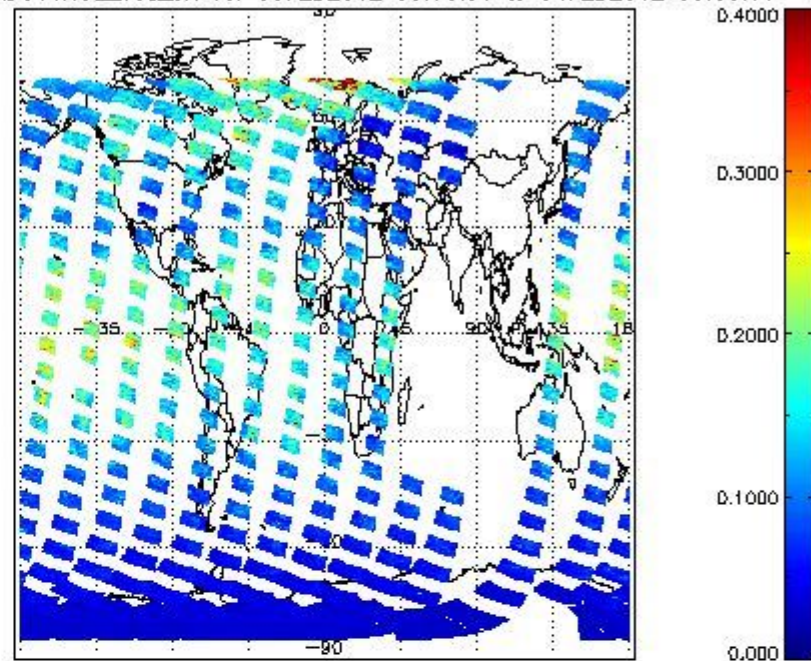
2.2.2.2 NO2 (UV1)



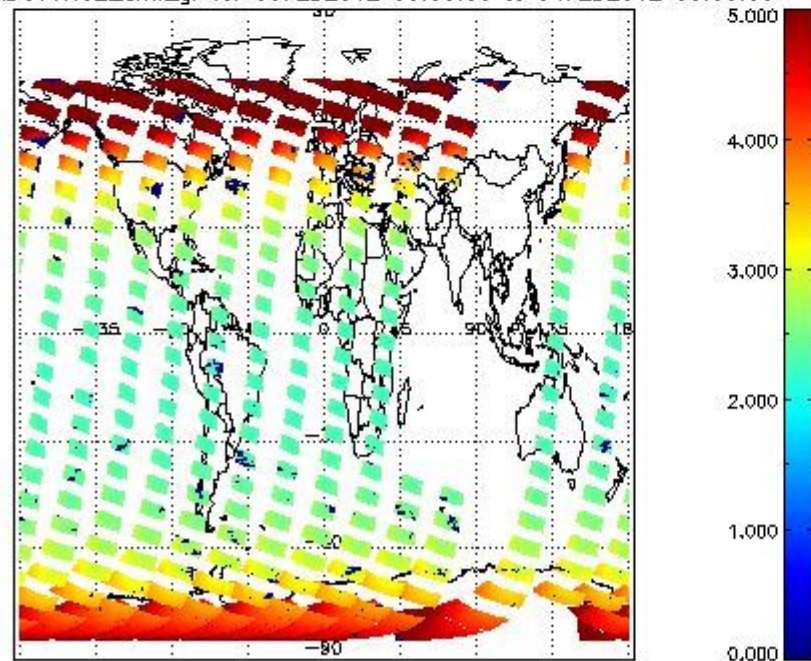
SCIOL2P_NADUV1N02_vcd for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



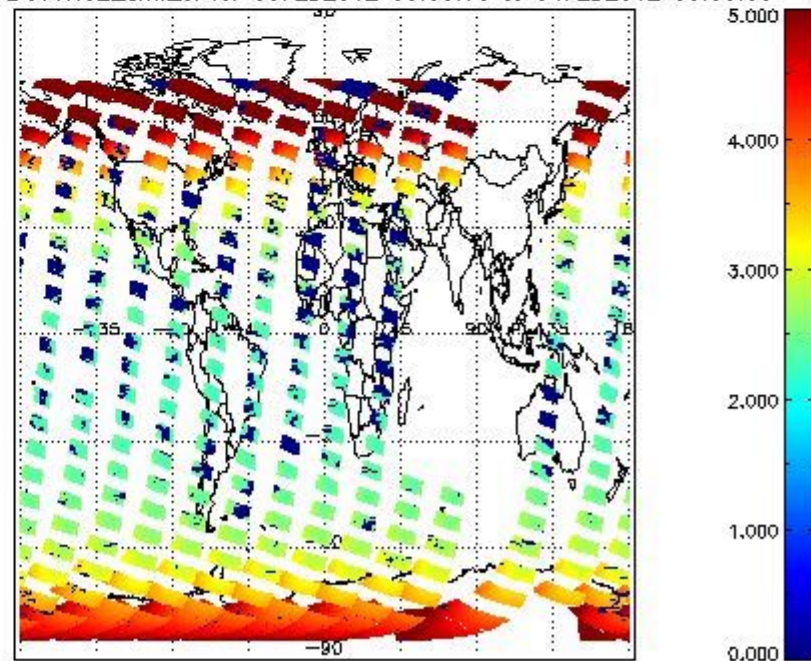
SCIOL2P_NADUV1N02_vcd_err for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



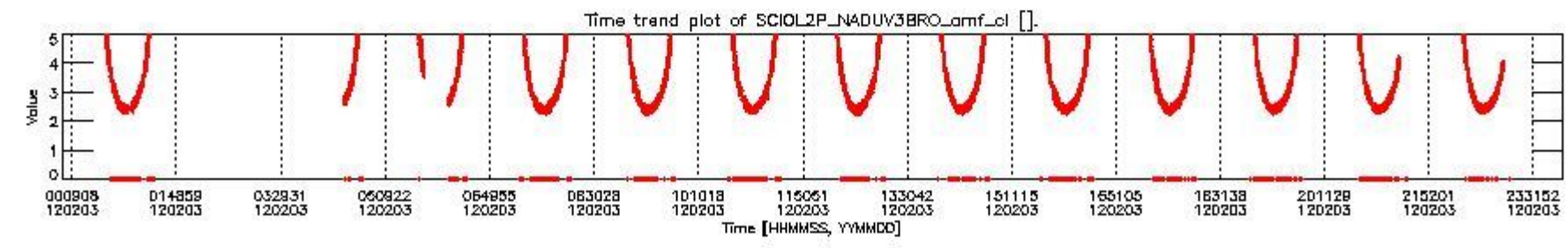
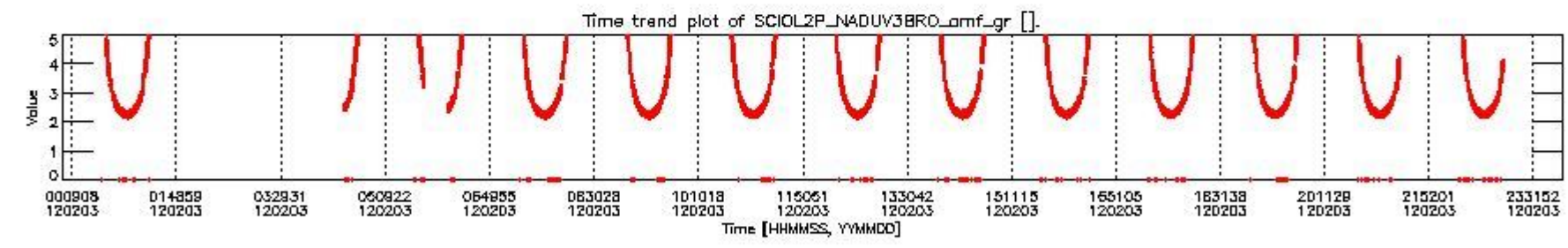
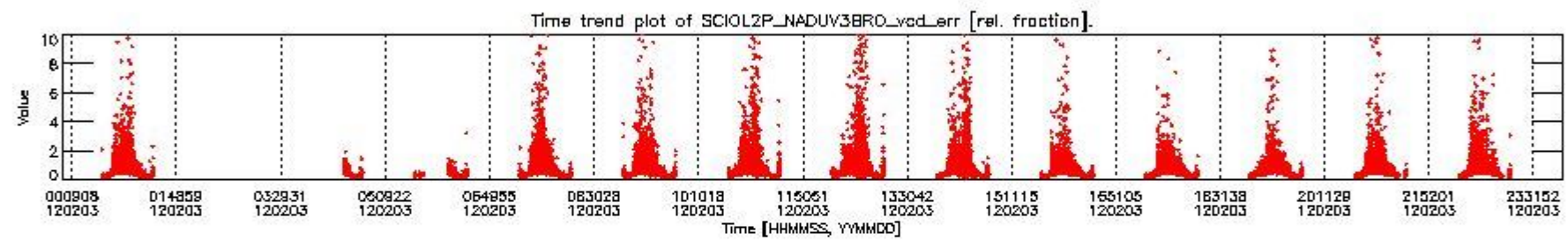
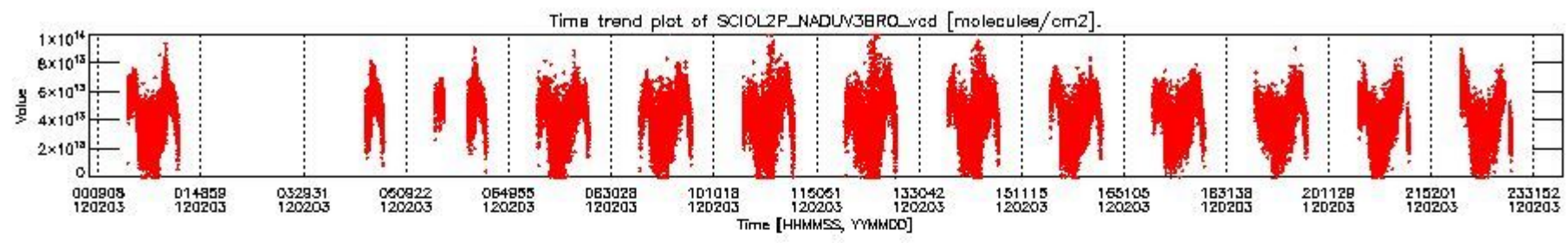
SCIOL2P_NADUV1N02_amf_gr for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



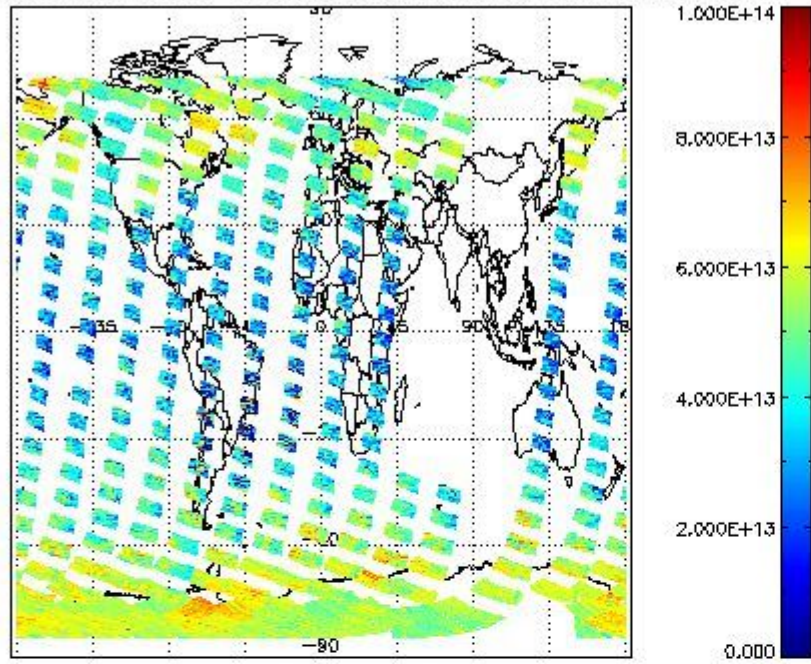
SCIOL2P_NADUV1N02_amf_cl for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



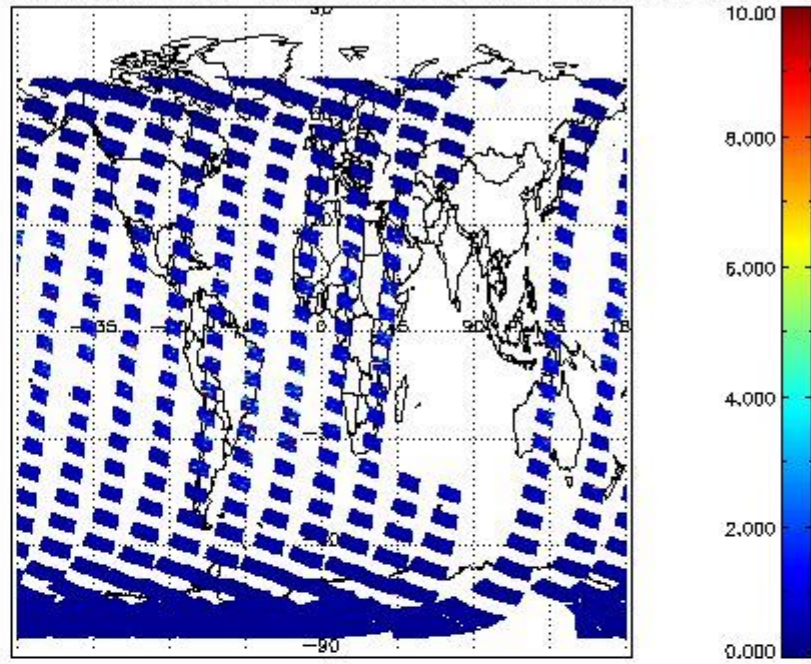
2.2.2.3 BrO (UV3)



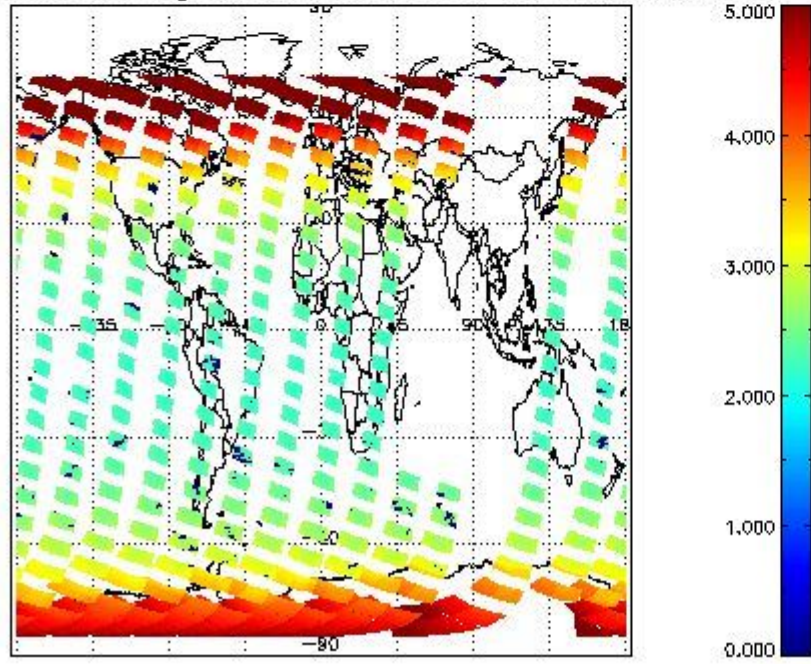
SCIOL2P_NADUV3BRO_vcd for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



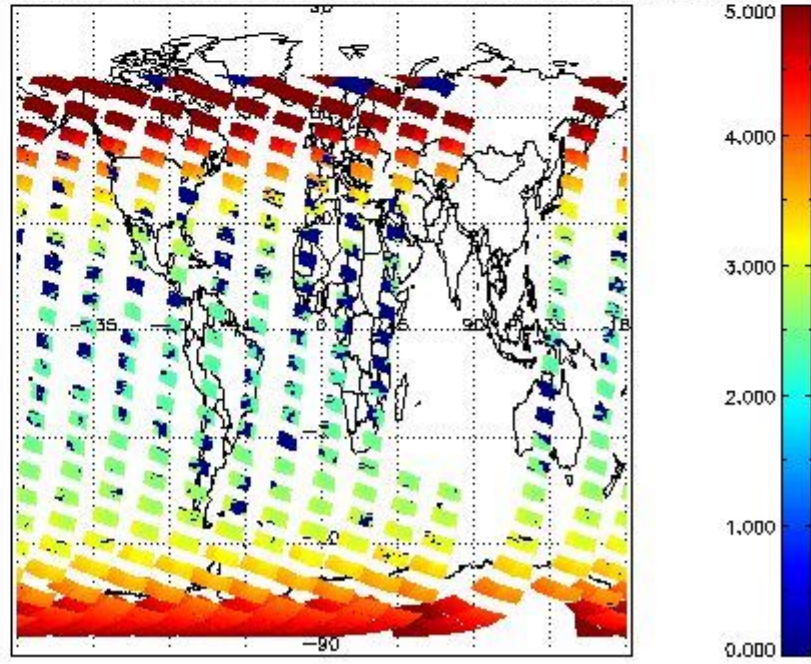
SCIOL2P_NADUV3BRO_vcd_err for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



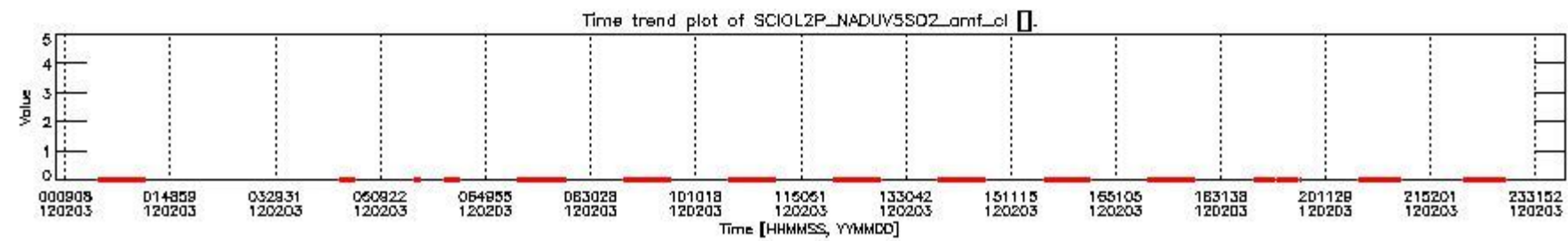
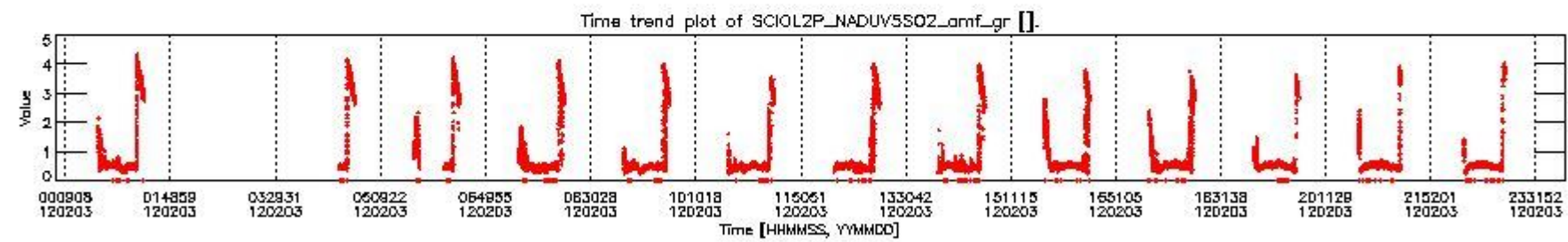
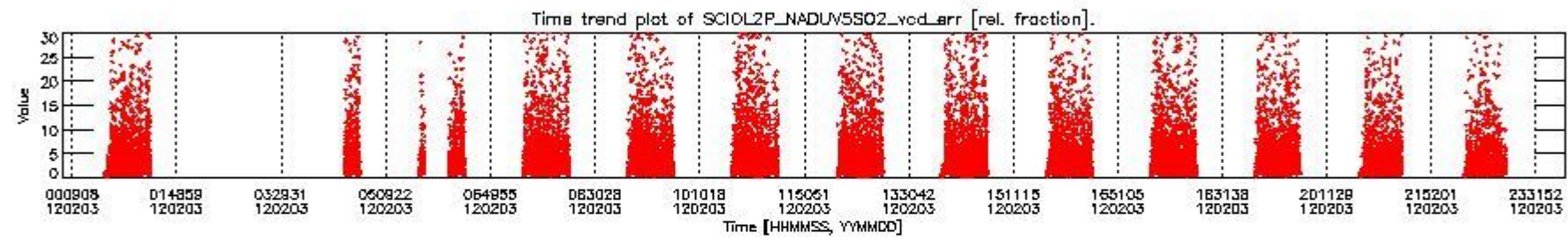
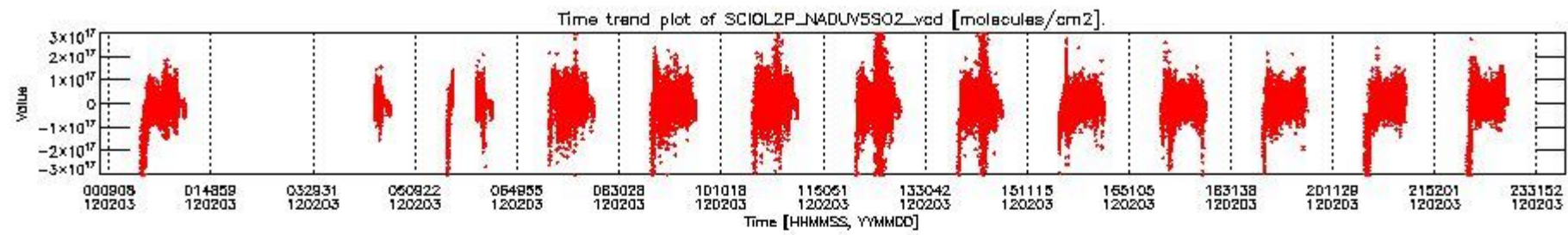
SCIOL2P_NADUV3BRO_amf_gr for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



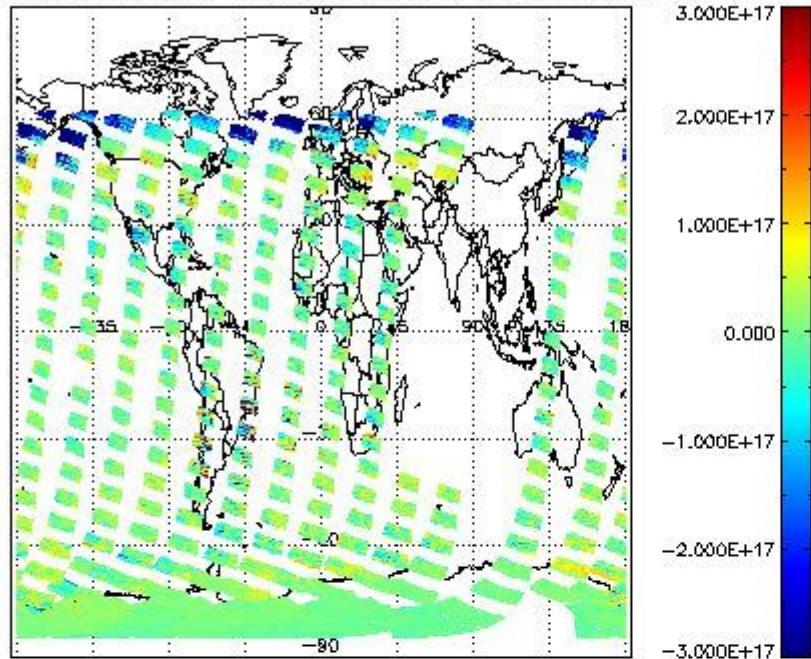
SCIOL2P_NADUV3BRO_amf_cl for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



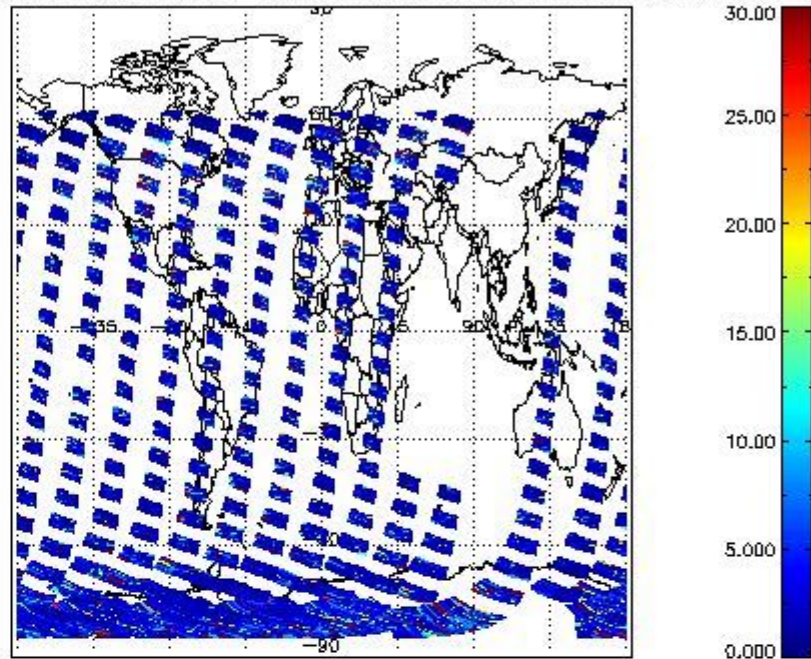
2.2.2.4 SO2 (UV5)



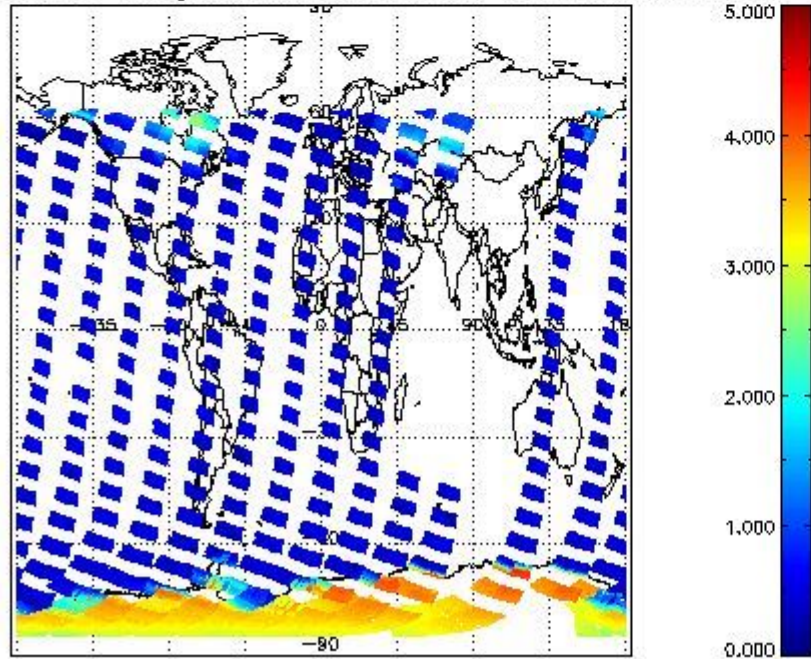
SCIOL2P_NADUV5SO2_vcd for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



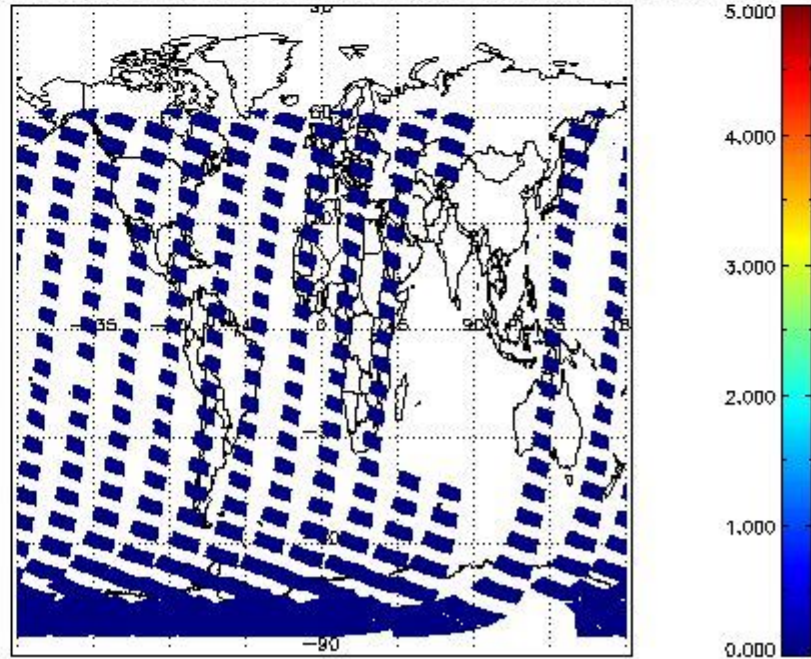
SCIOL2P_NADUV5SO2_vcd_err for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



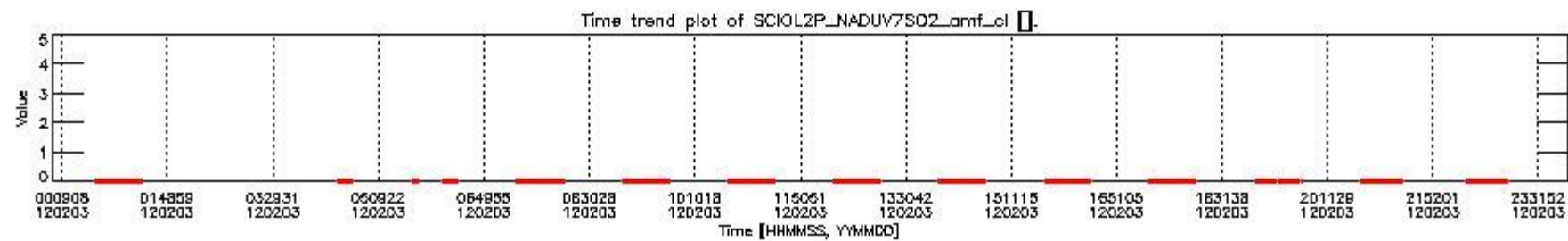
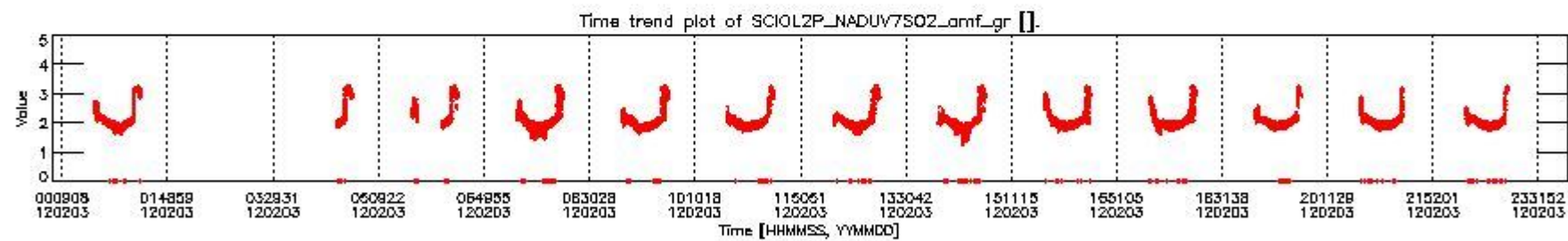
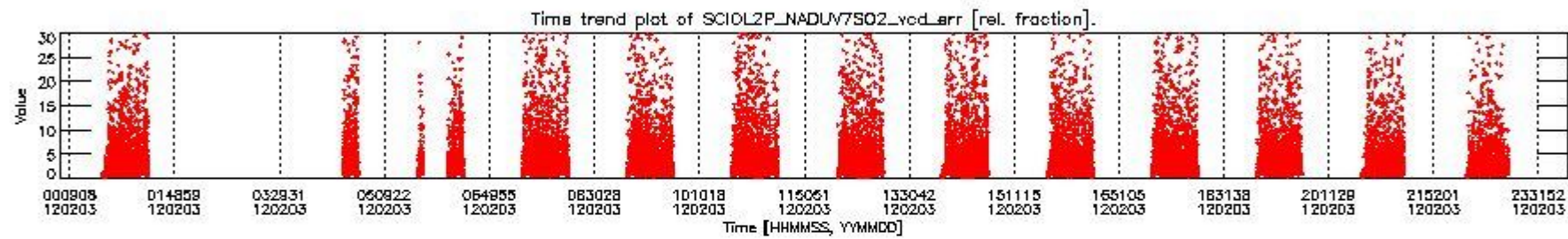
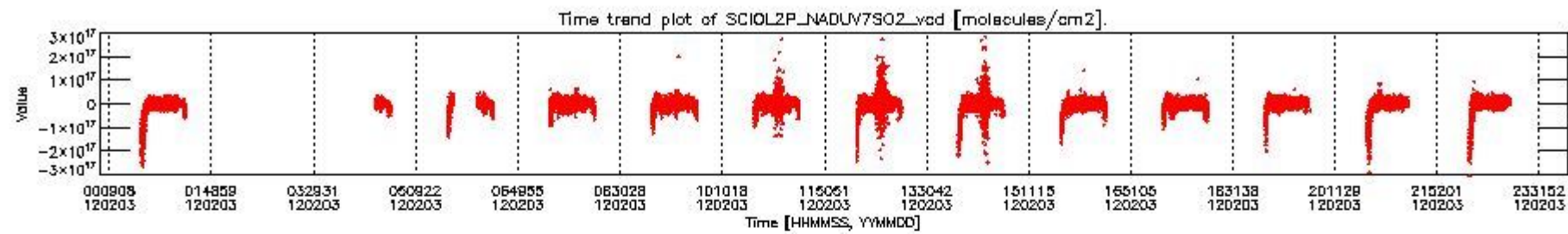
SCIOL2P_NADUV5SO2_amf_gr for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



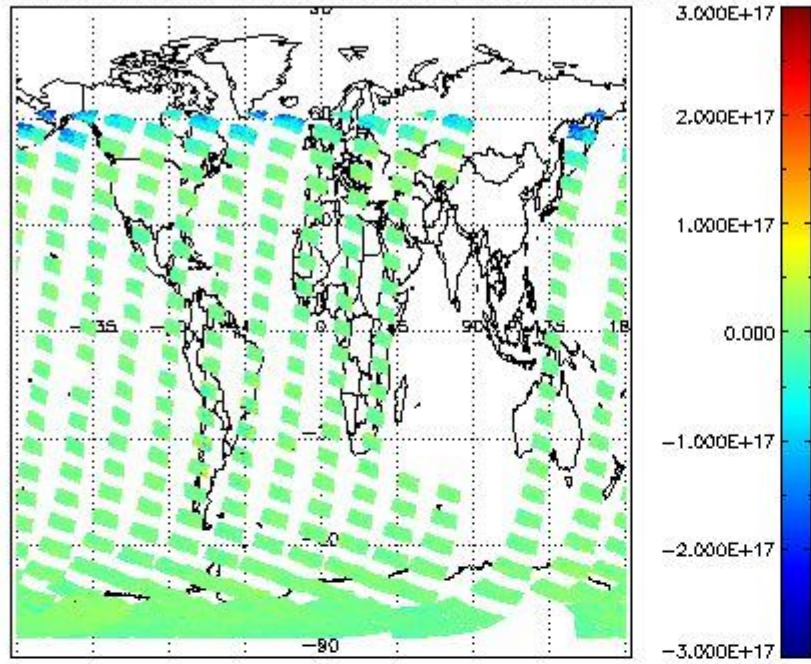
SCIOL2P_NADUV5SO2_amf_cl for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



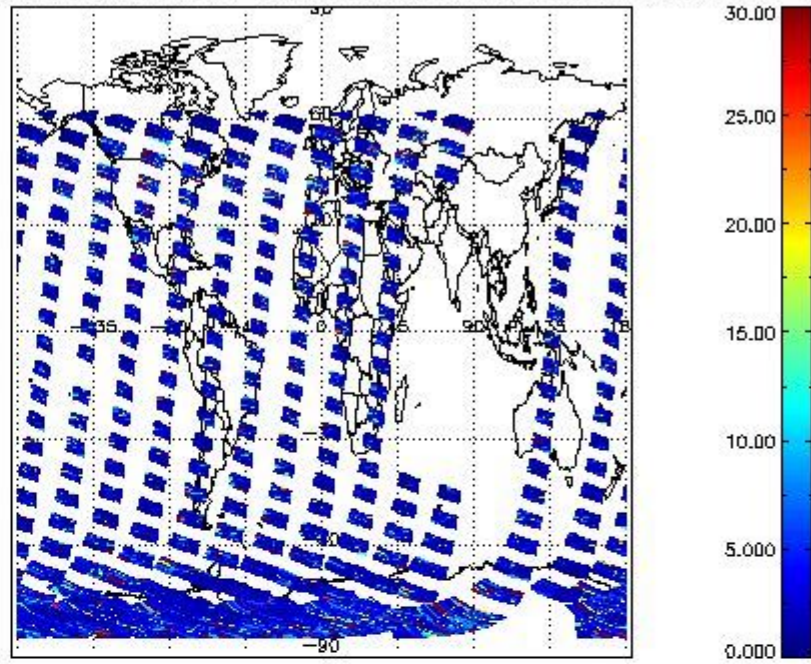
2.2.2.5 SO2 (UV7)



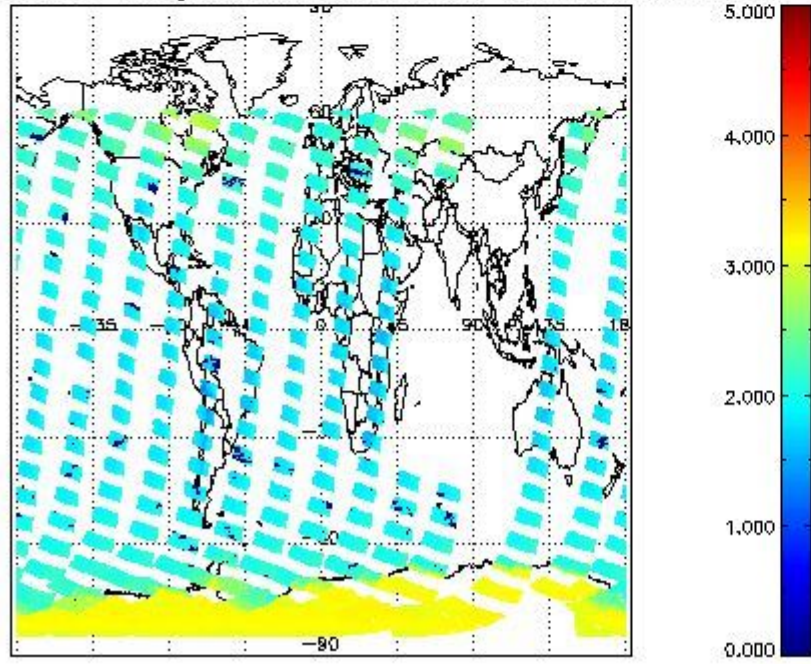
SCIOL2P_NADUV7S02_vcd for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



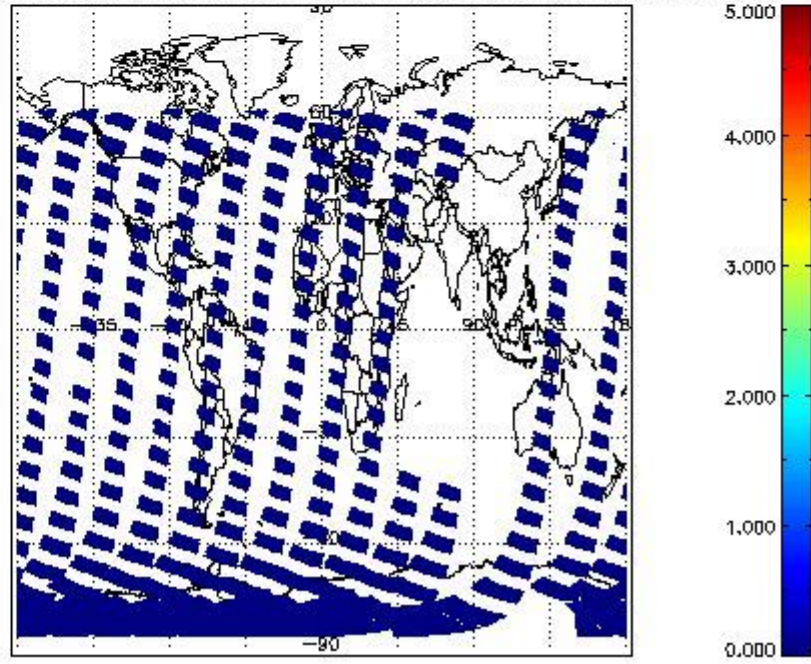
SCIOL2P_NADUV7S02_vcd_err for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



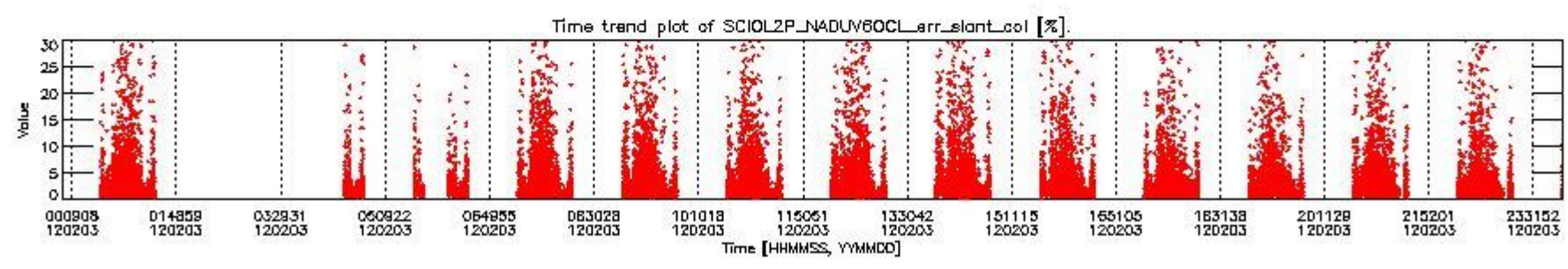
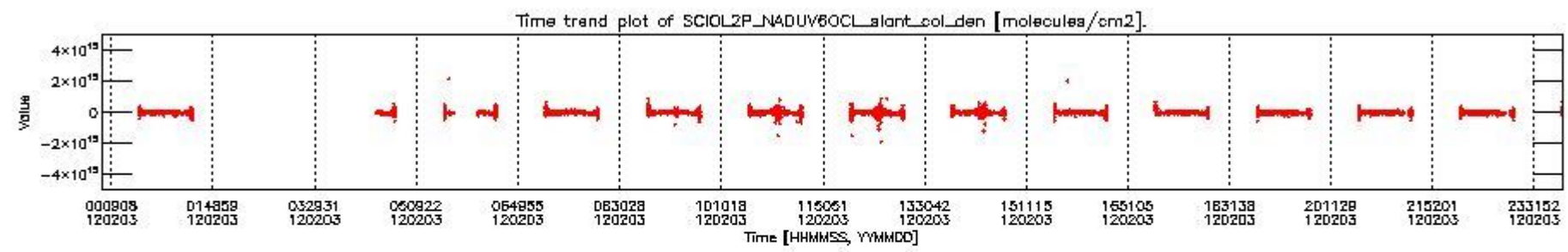
SCIOL2P_NADUV7S02_amf_gr for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



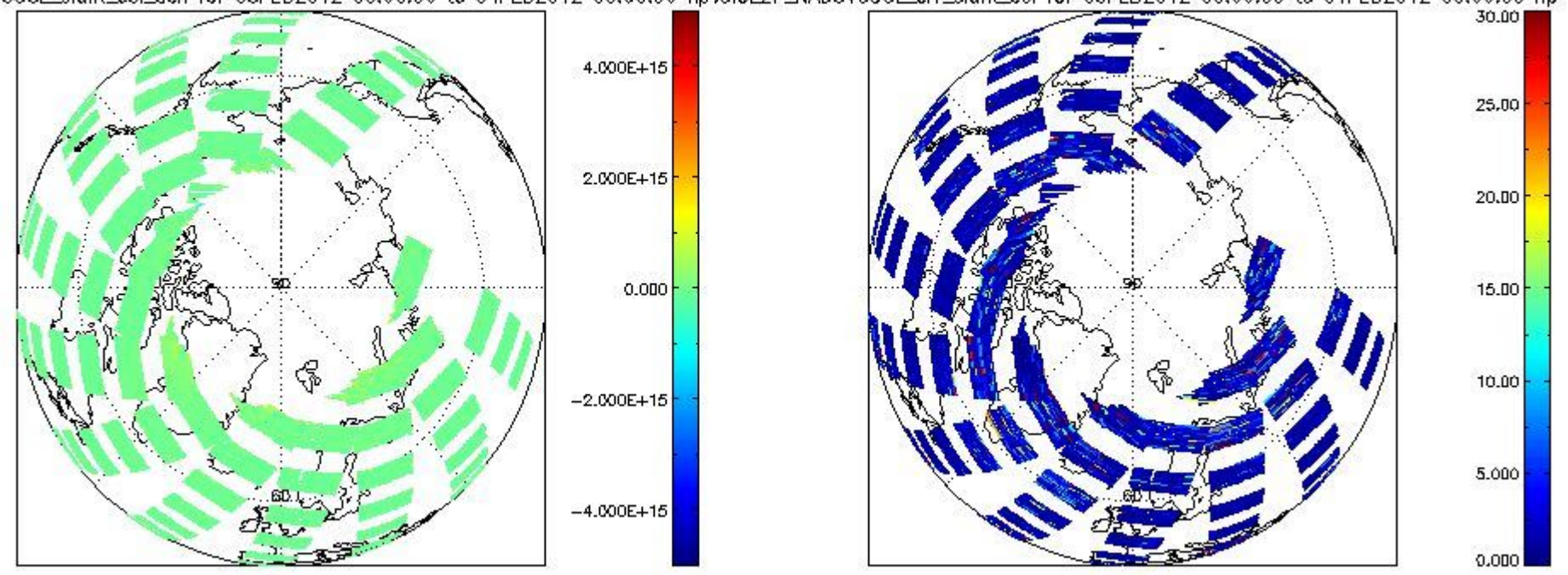
SCIOL2P_NADUV7S02_amf_cl for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



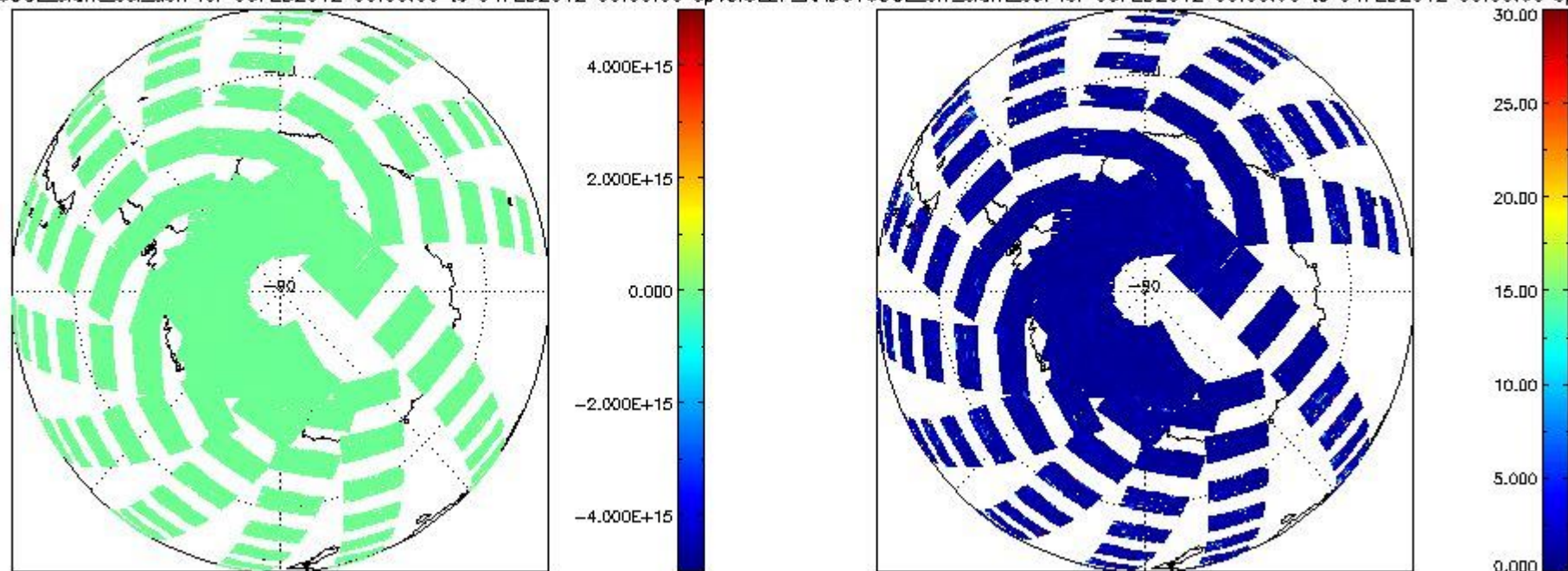
2.2.2.6 OCIO (UV6)



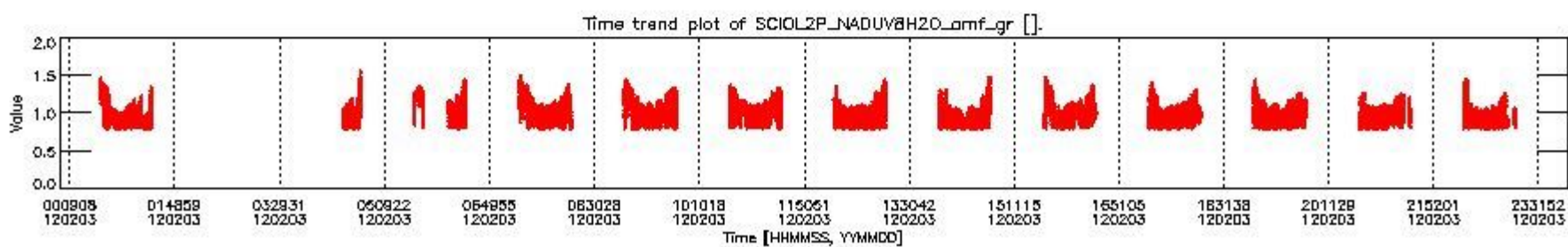
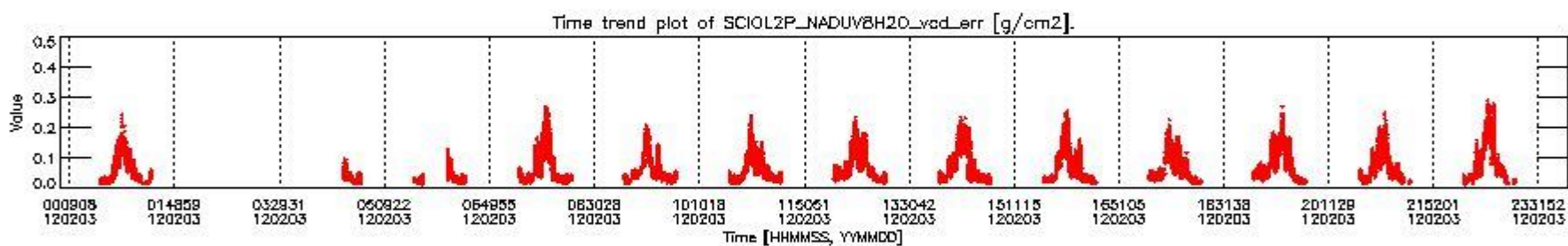
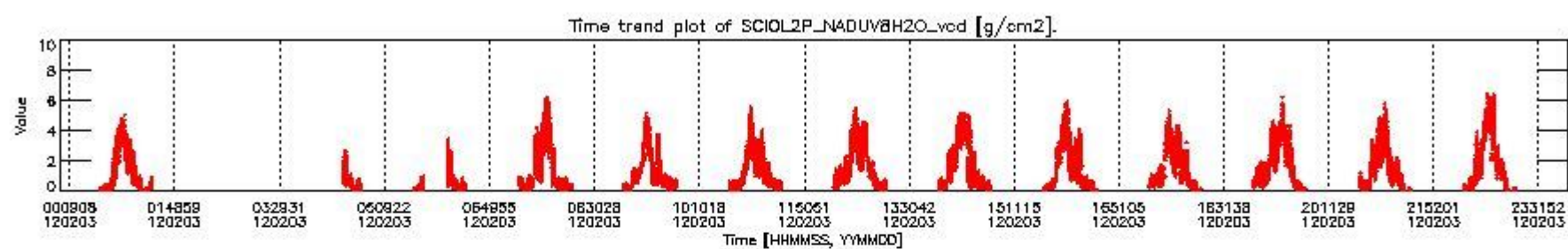
CIOL2P_NADUV60CL_slant_col_den for 03FEB2012 00:00:00 to 04FEB2012 00:00:00 np; CIOL2P_NADUV60CL_err_slant_col for 03FEB2012 00:00:00 to 04FEB2012 00:00:00 np



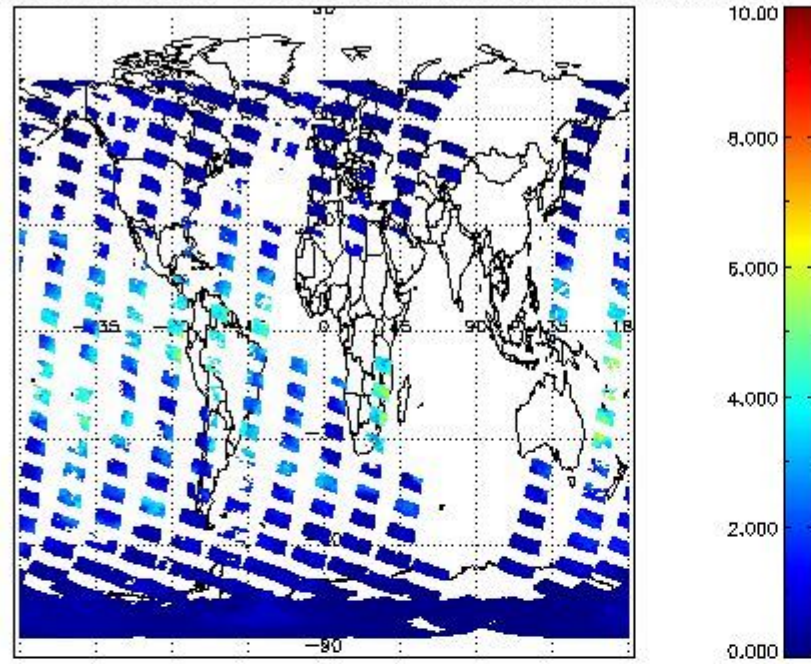
CIOL2P_NADUV60CL_slant_col_den for 03FEB2012 00:00:00 to 04FEB2012 00:00:00 sp;CIOL2P_NADUV60CL_err_slant_col for 03FEB2012 00:00:00 to 04FEB2012 00:00:00 sp



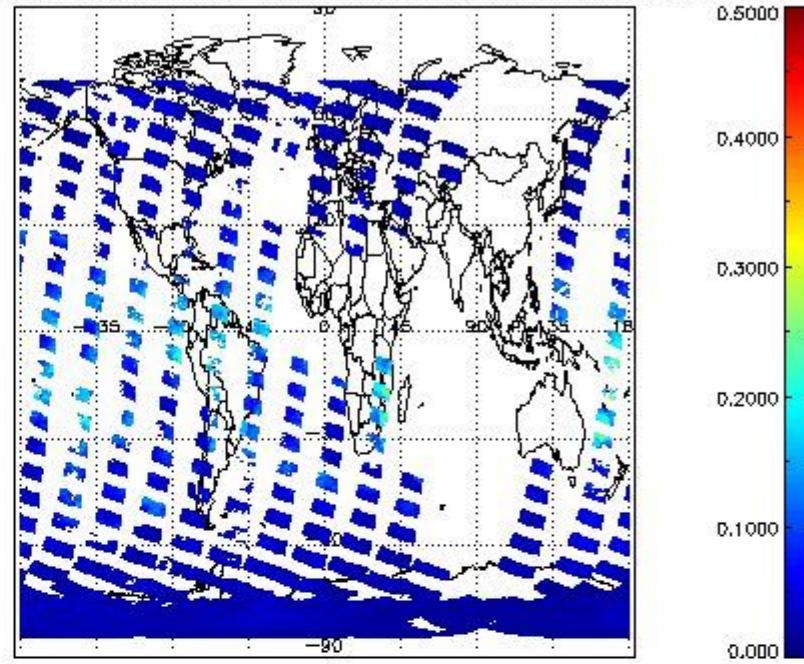
2.2.2.7 H2O (UV8)



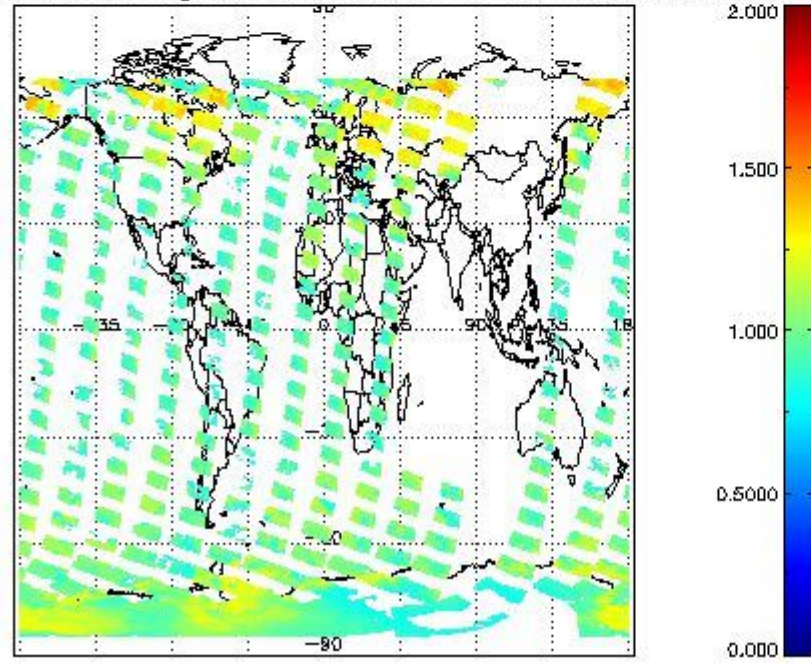
SCIOL2P_NADUV8H2O_vcd for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



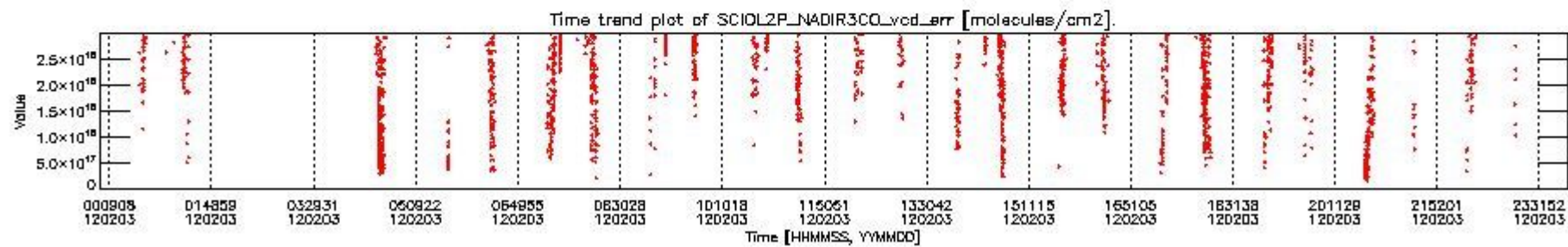
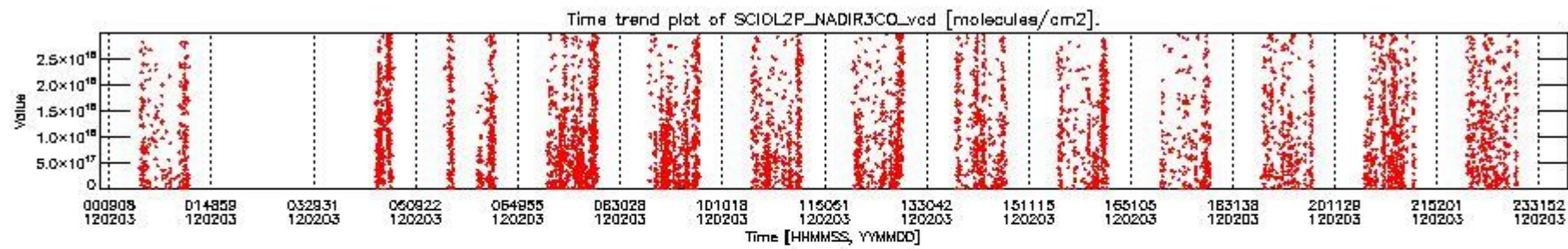
SCIOL2P_NADUV8H2O_vcd_err for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



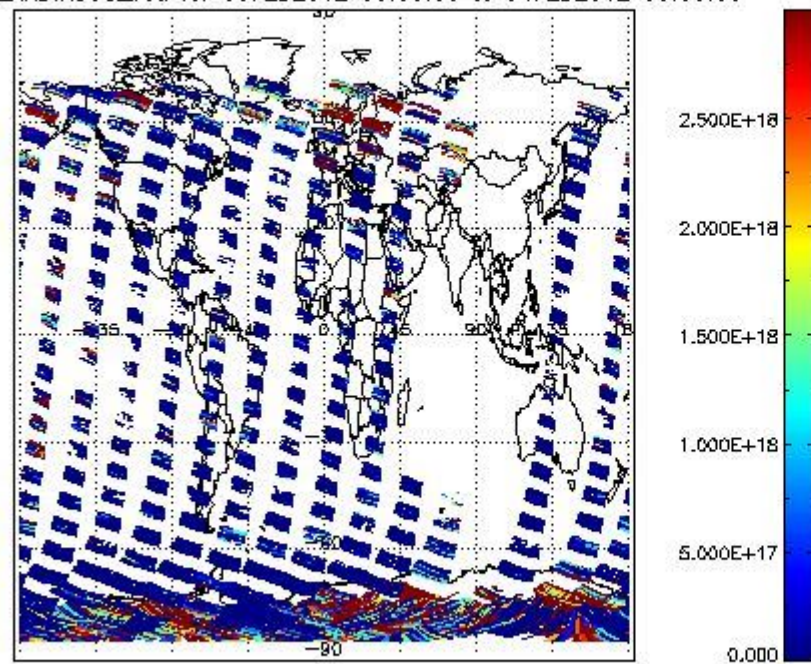
SCIOL2P_NADUV8H2O_amf_gr for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



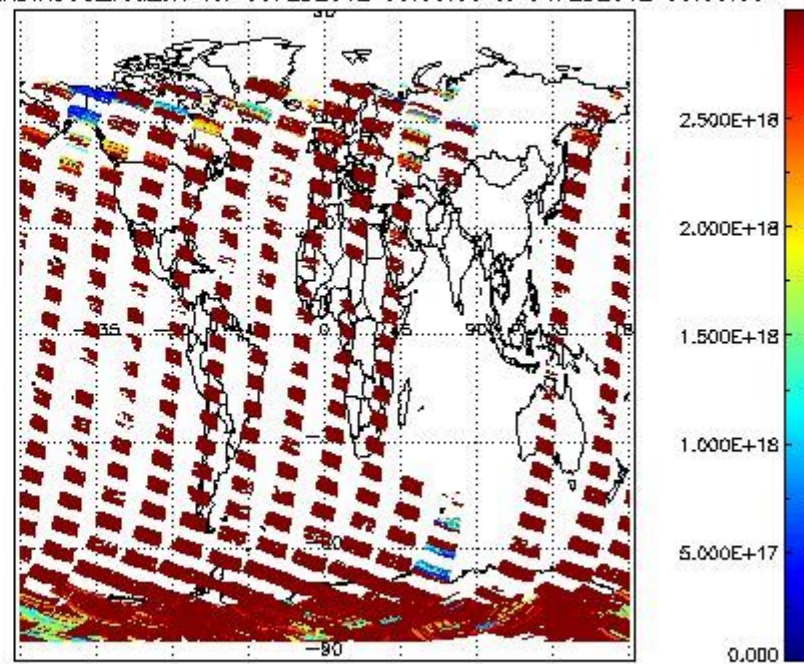
2.2.2.8 CO (IR3)



SCIDL2P_NADIR3CO_vcd for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



SCIDL2P_NADIR3CO_vcd_err for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



2.2.3 Limb

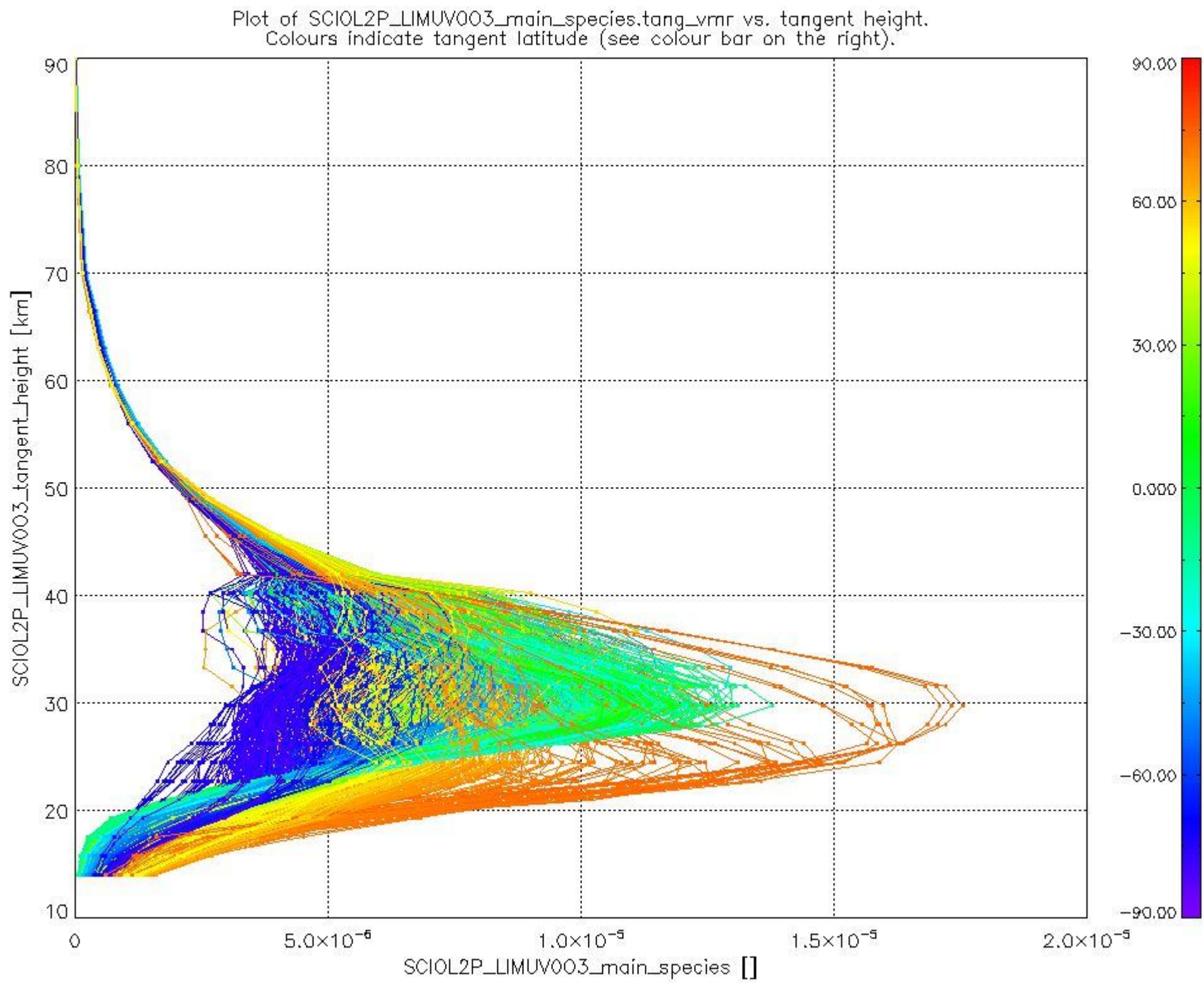
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

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

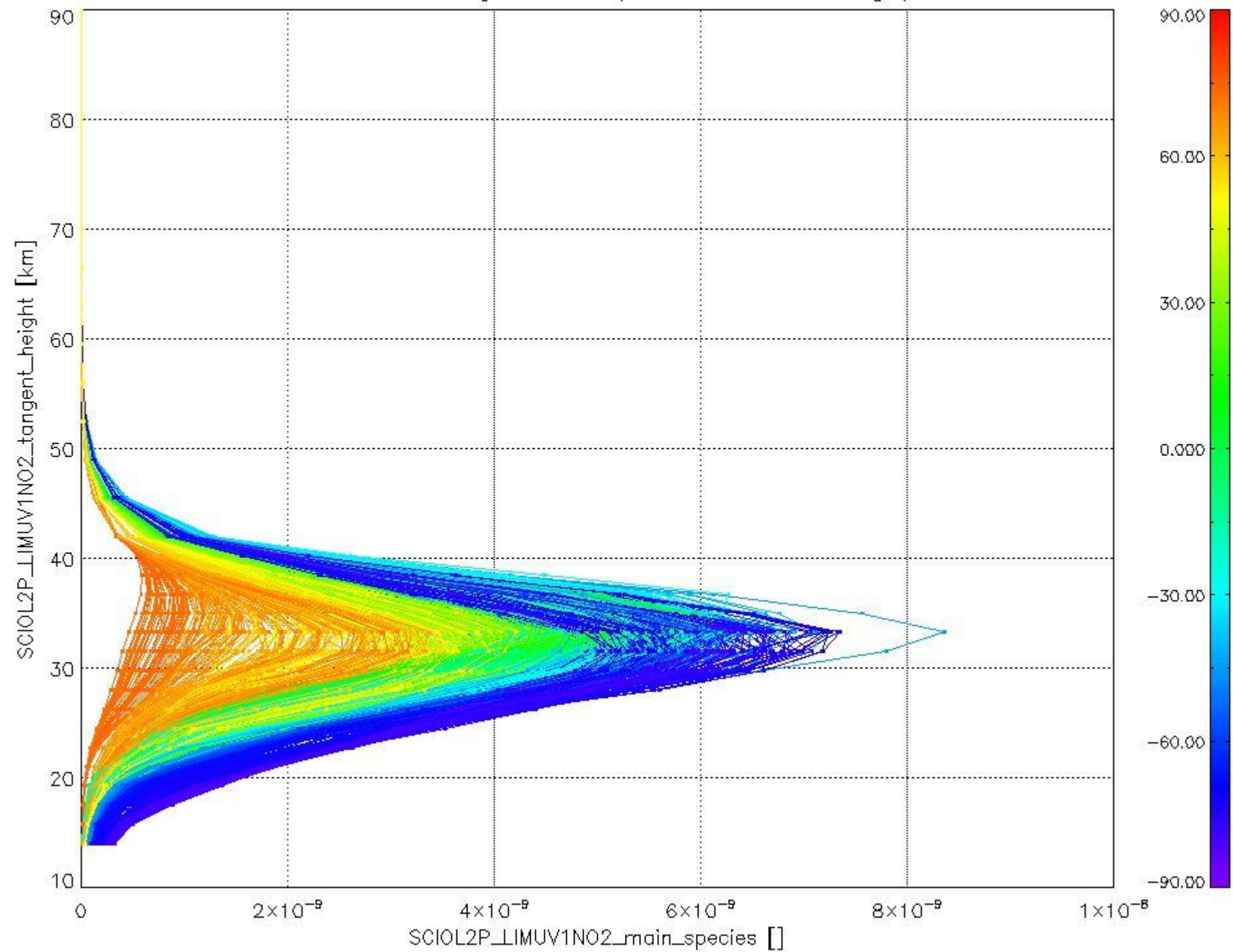
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



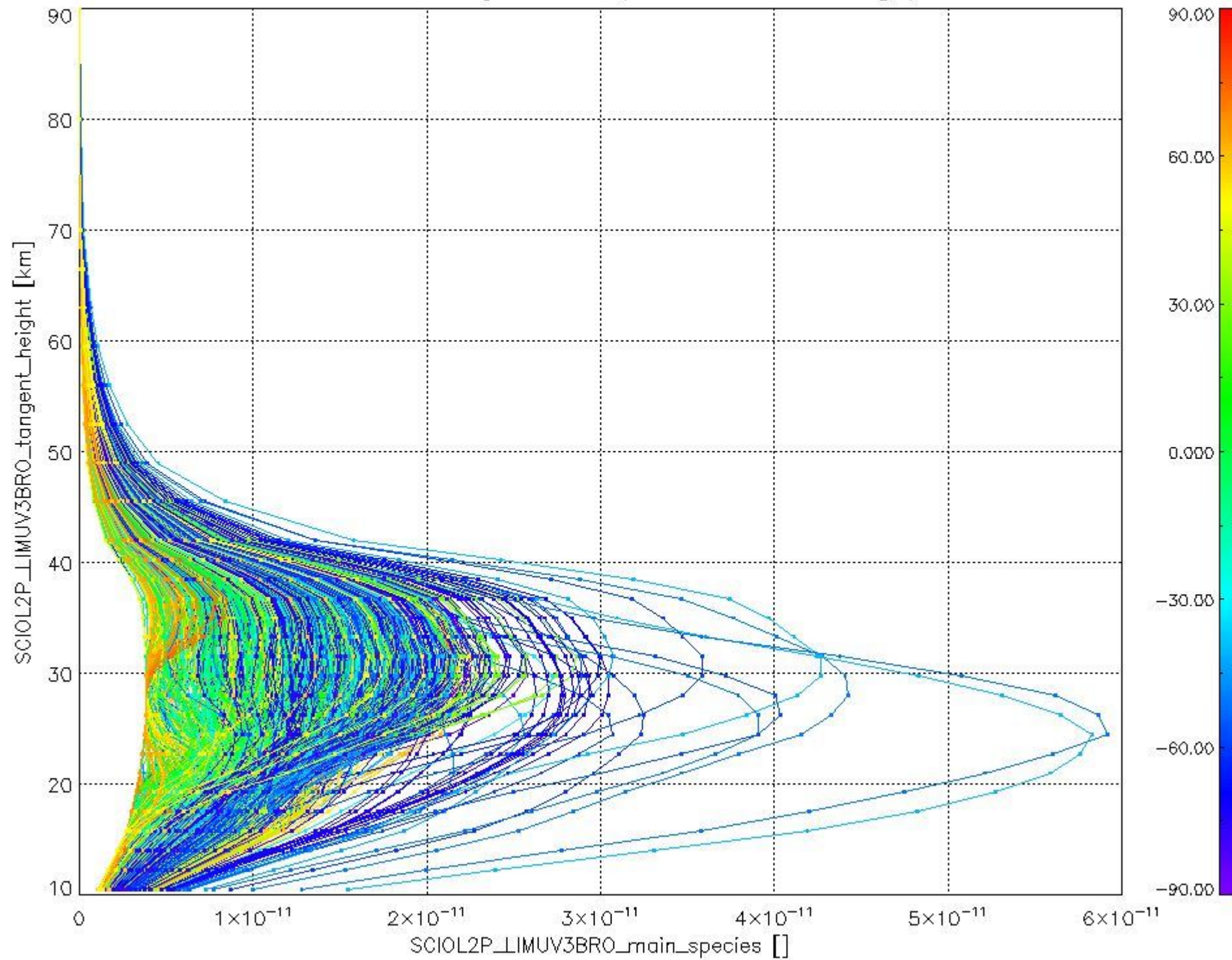
2.2.3.2 NO2 (UV1)

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)

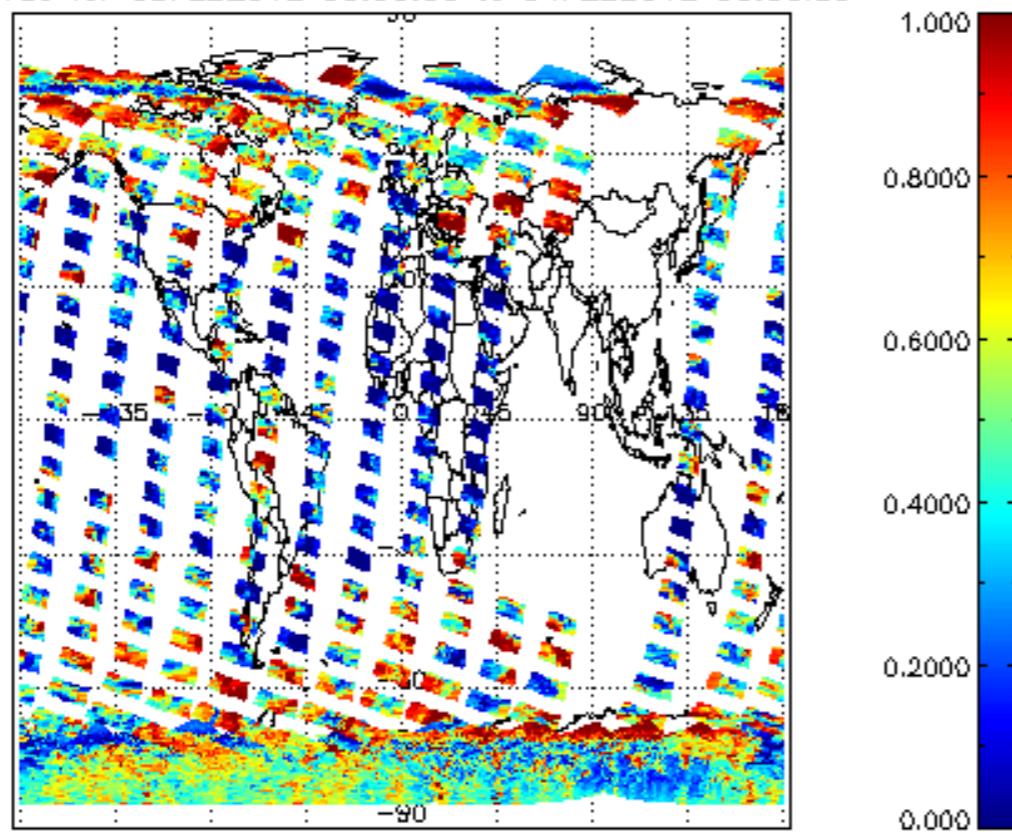
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



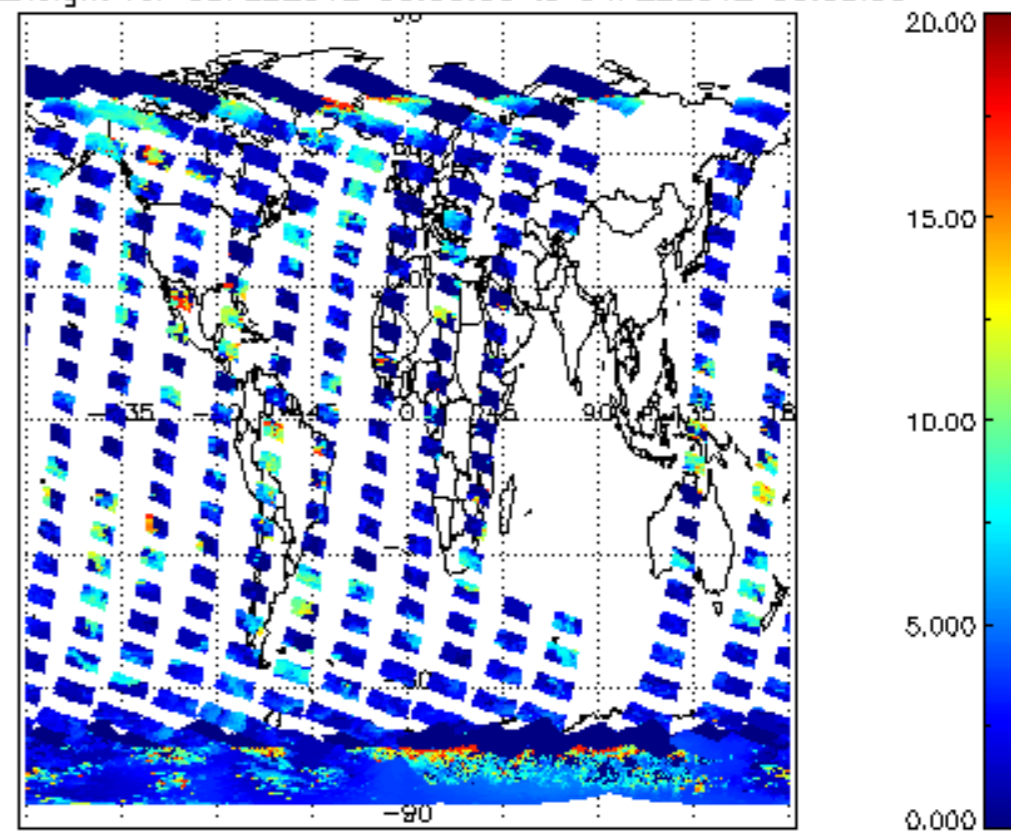
2.3 ADF monitoring

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_AXVIEC20120207_164658_20120202_184950_20120204_184950
3	SCI_MF1_AXVIEC20120207_164758_20120203_181305_20120205_181305

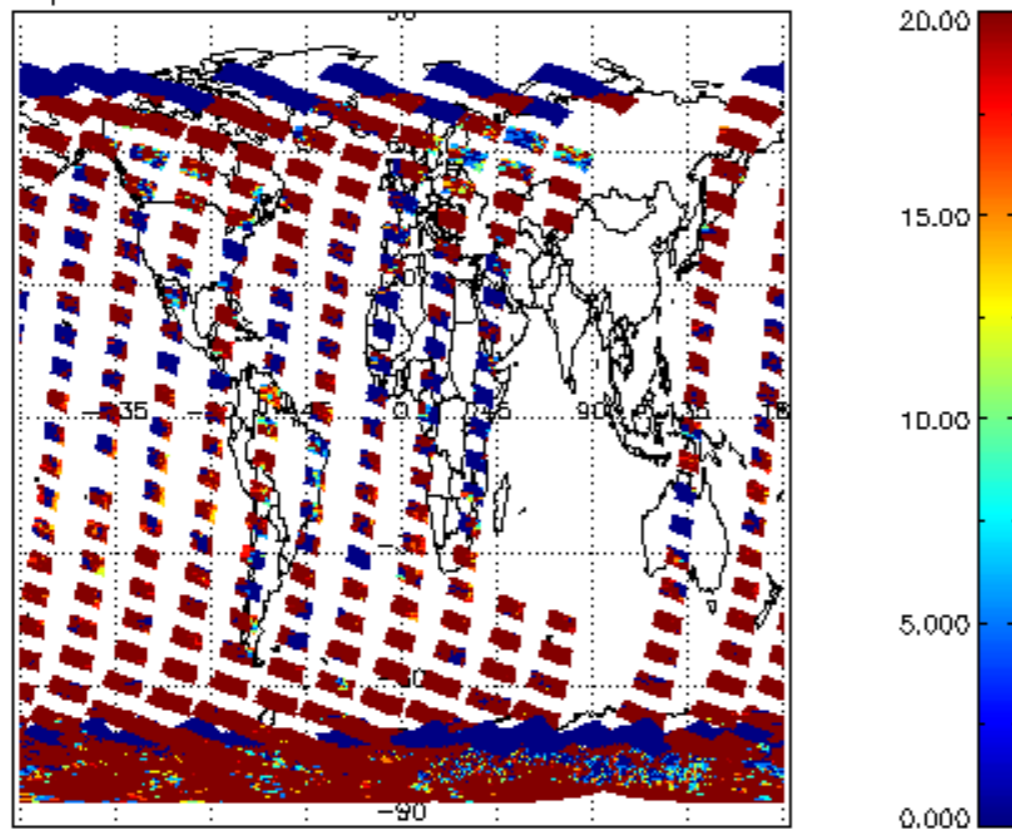
cl_frac for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



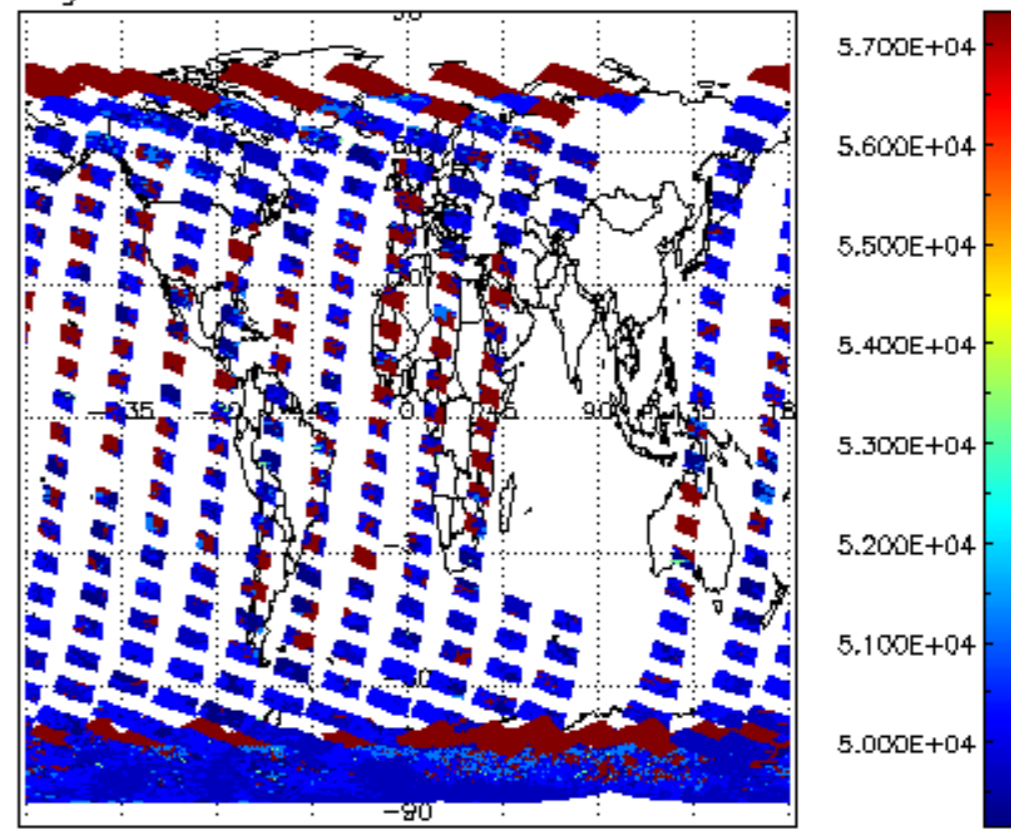
cl_top_height for 03FEB2012 00:00:00 to 04FEB2012 00:00:00

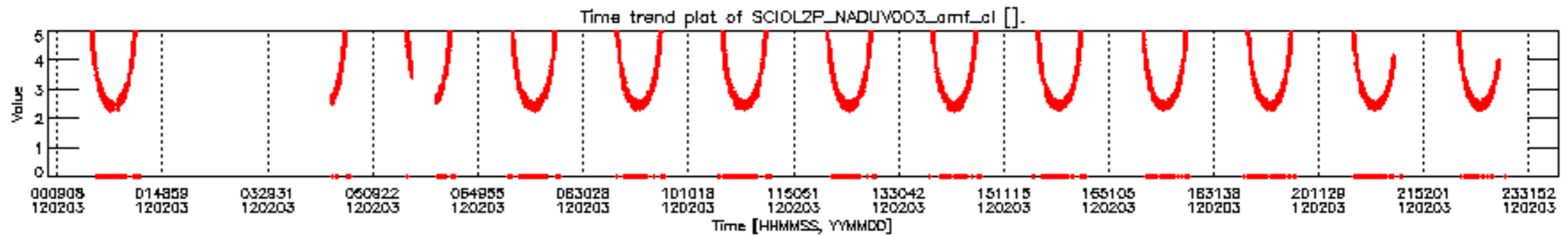
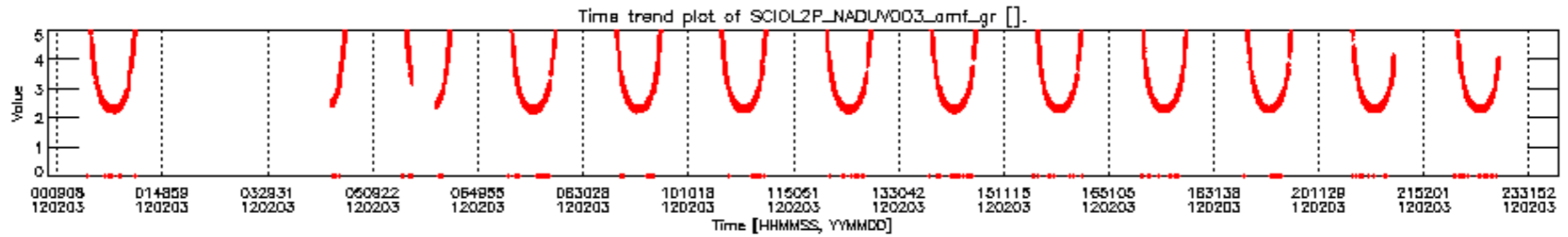
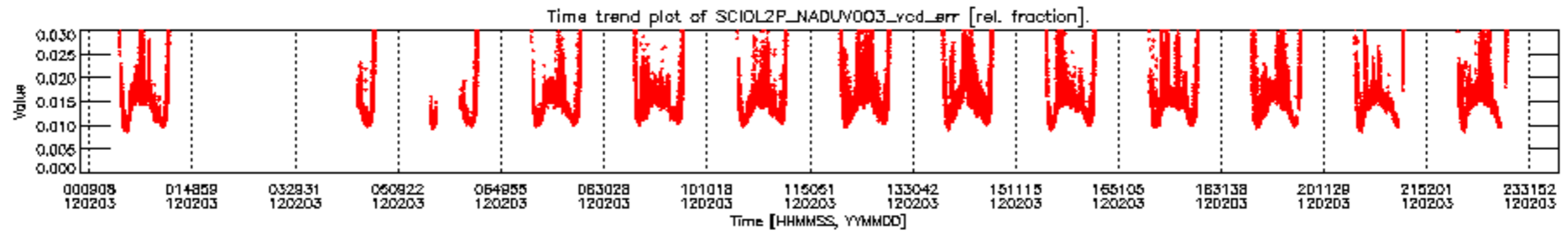
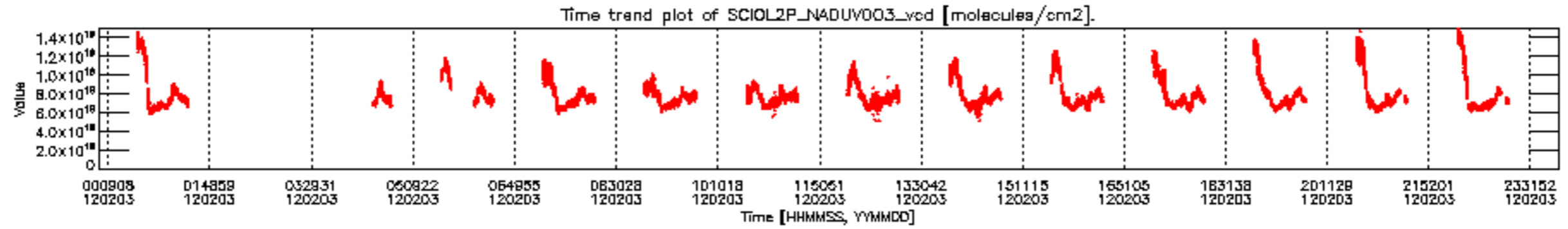


cl_opt_depth for 03FEB2012 00:00:00 to 04FEB2012 00:00:00

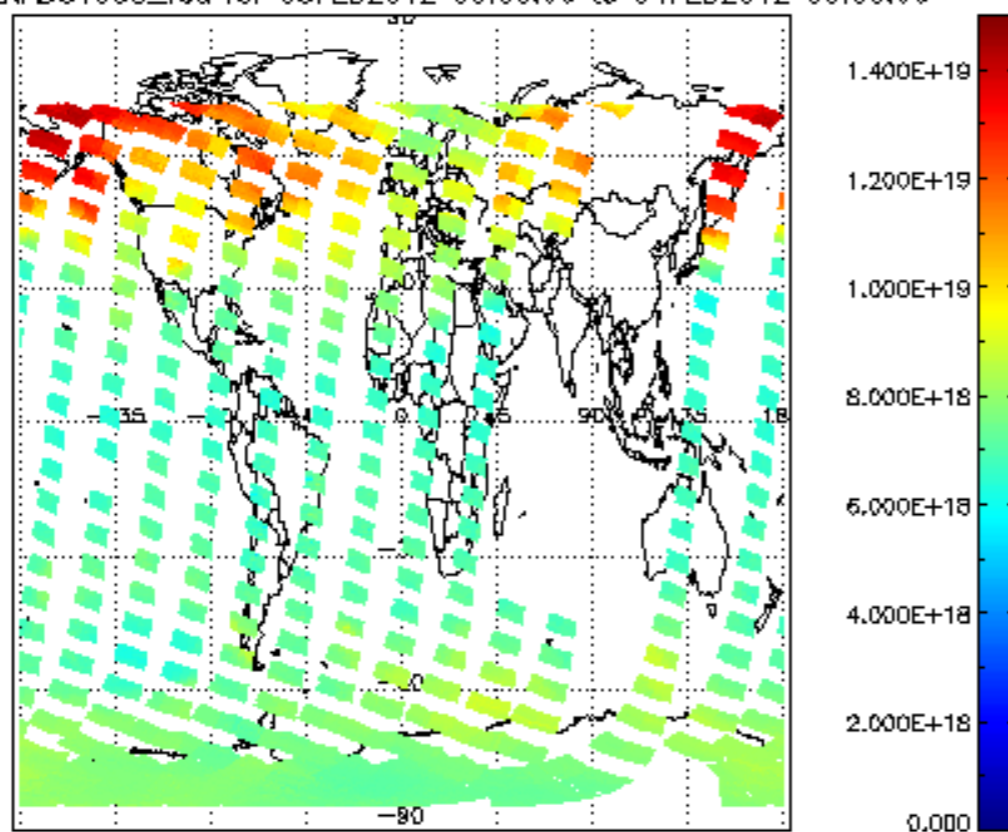


cloud_flags for 03FEB2012 00:00:00 to 04FEB2012 00:00:00

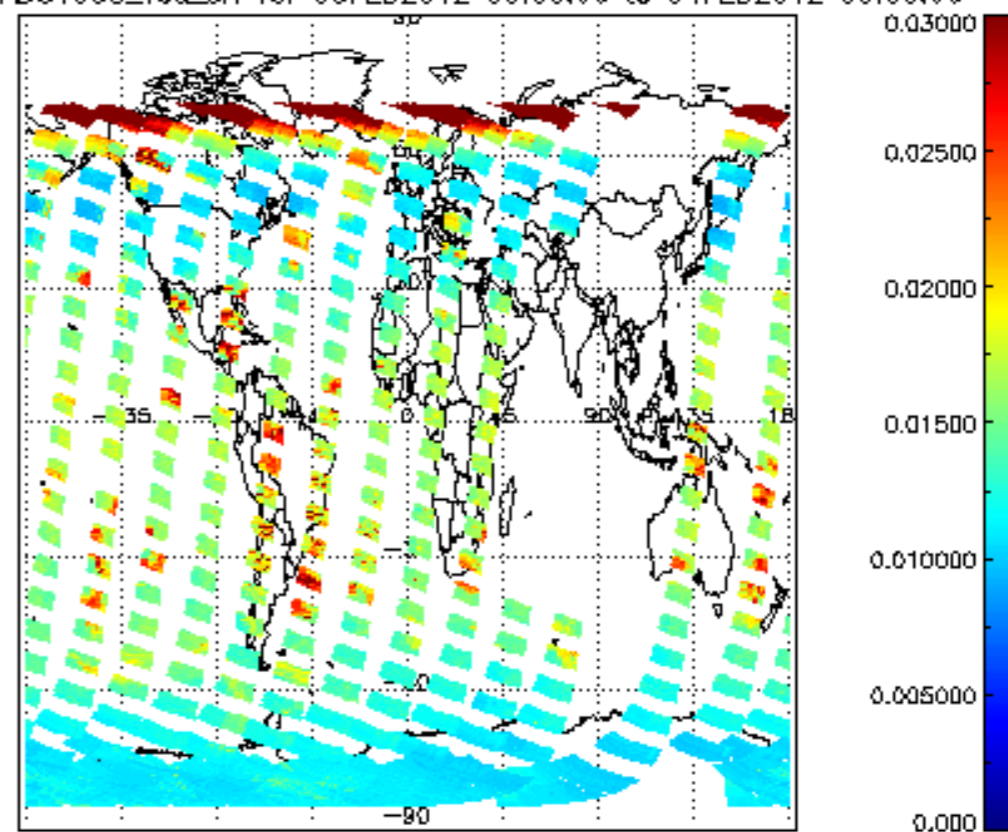




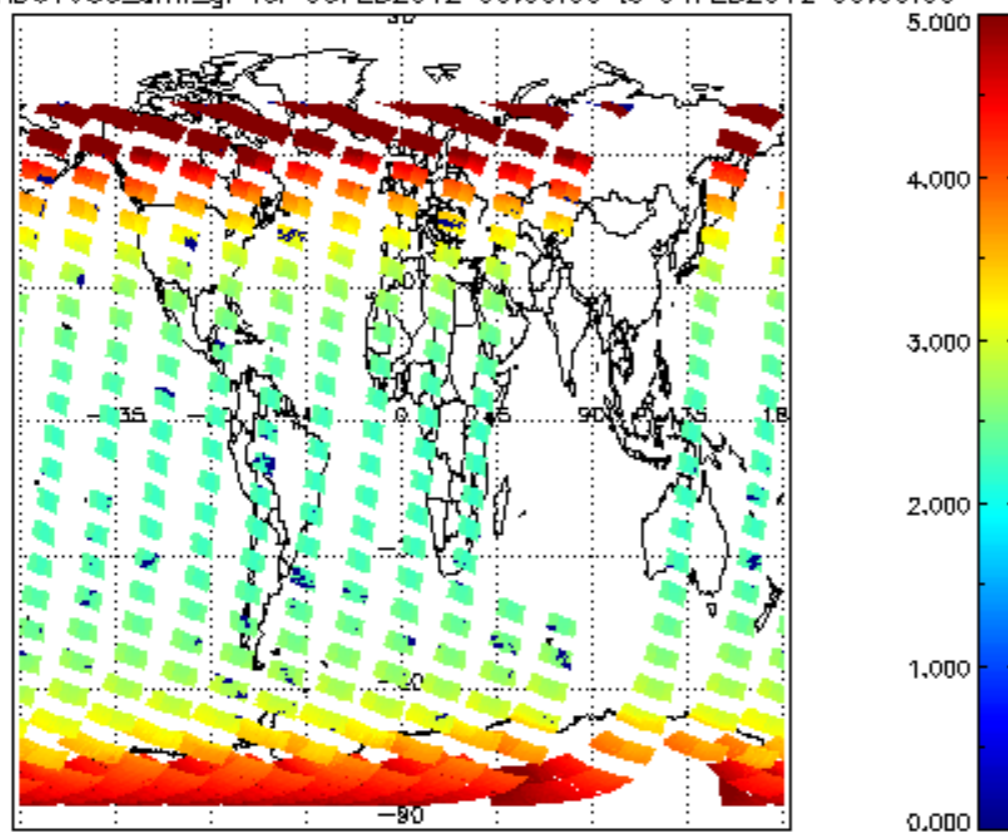
SCIOL2P_NADUV003_vcd for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



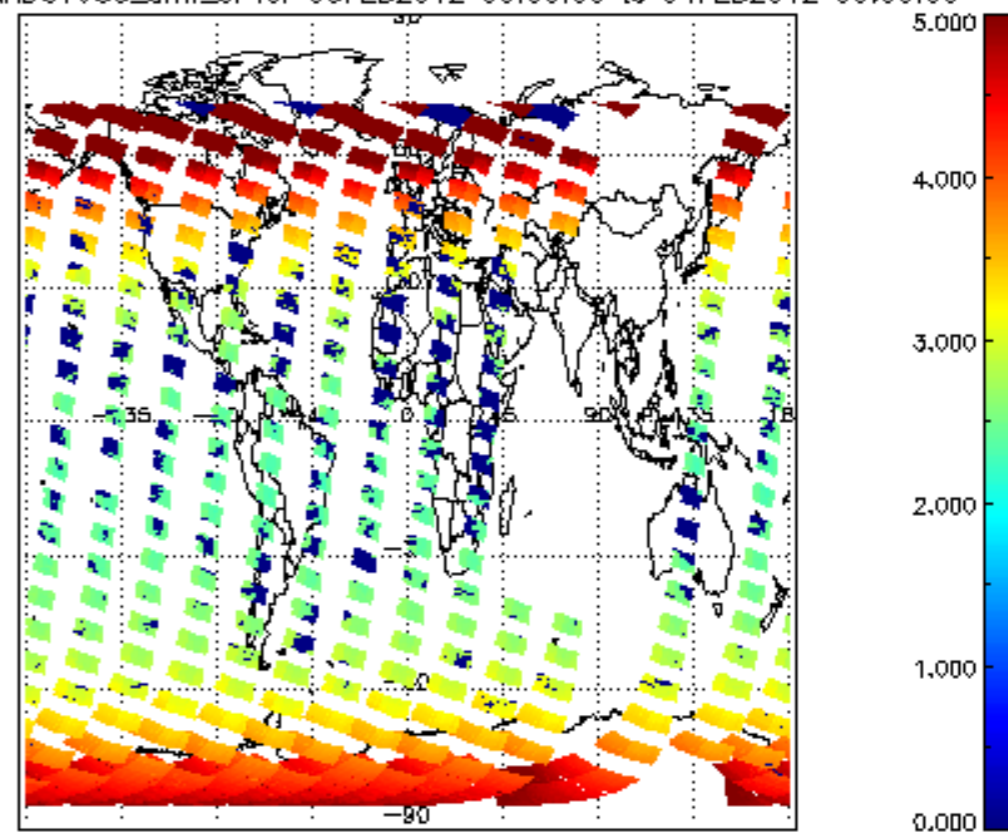
SCIOL2P_NADUV003_vcd_err for 03FEB2012 00:00:00 to 04FEB2012 00:00:00

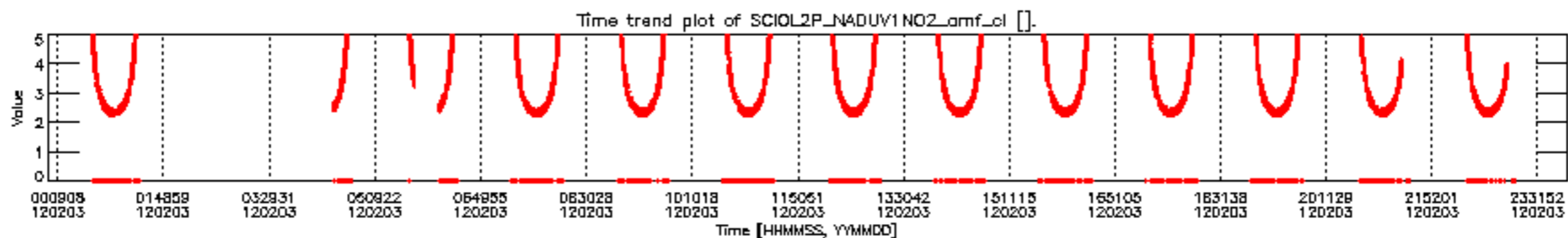
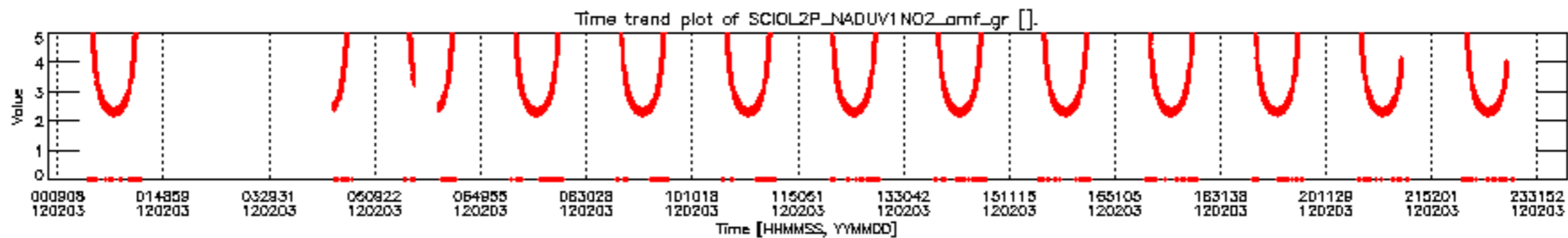
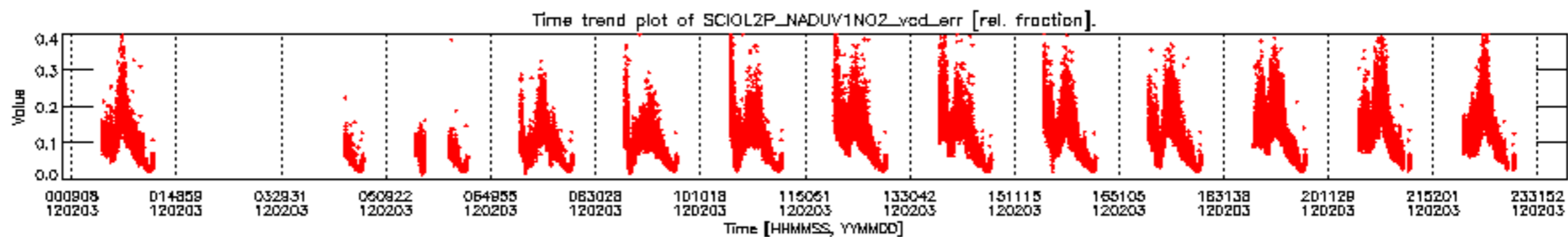
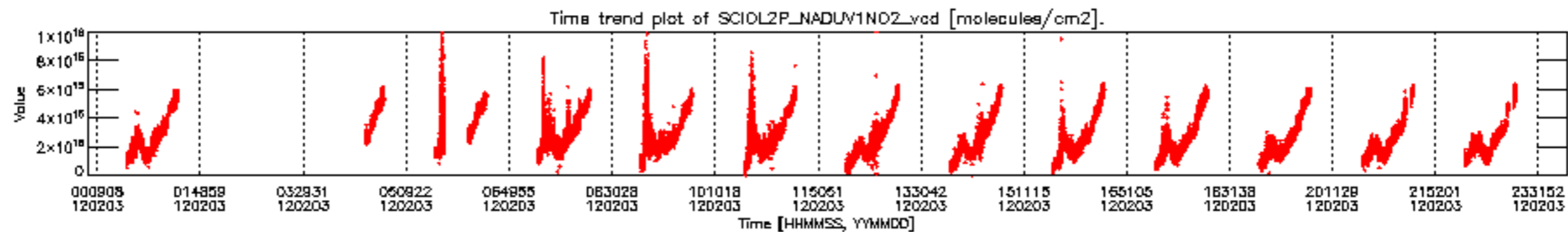


SCIOL2P_NADUV003_amf_gr for 03FEB2012 00:00:00 to 04FEB2012 00:00:00

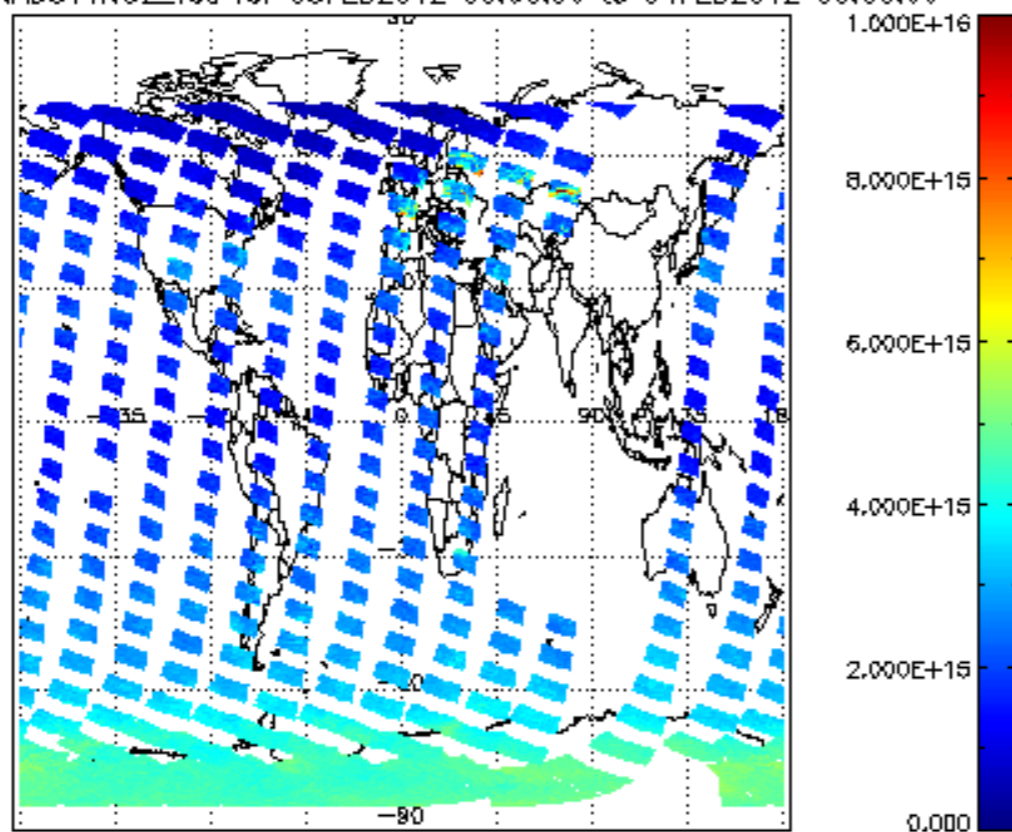


SCIOL2P_NADUV003_amf_cl for 03FEB2012 00:00:00 to 04FEB2012 00:00:00

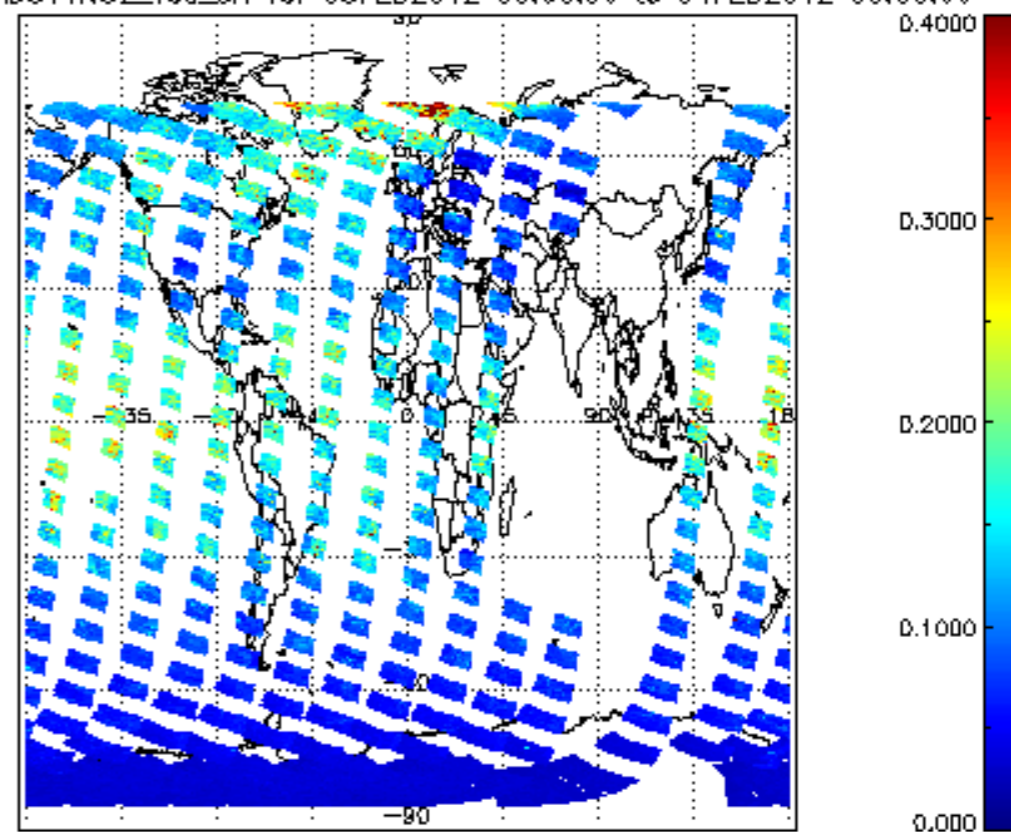




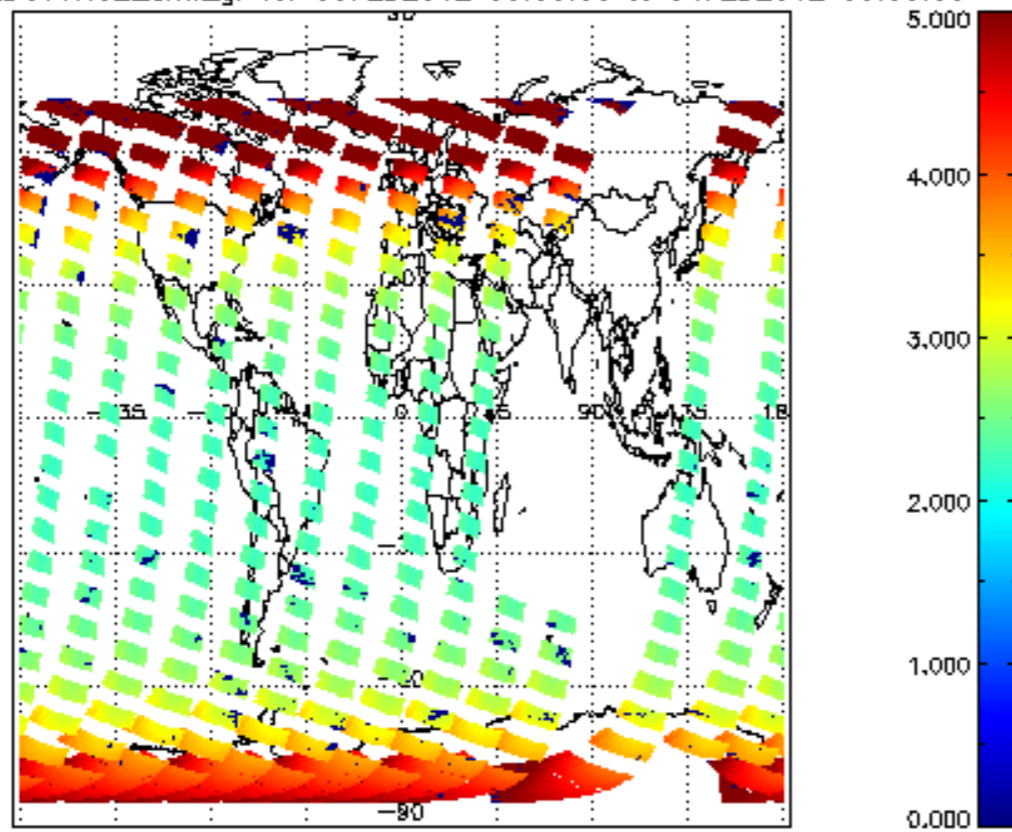
SCIOL2P_NADUV1N02_vcd for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



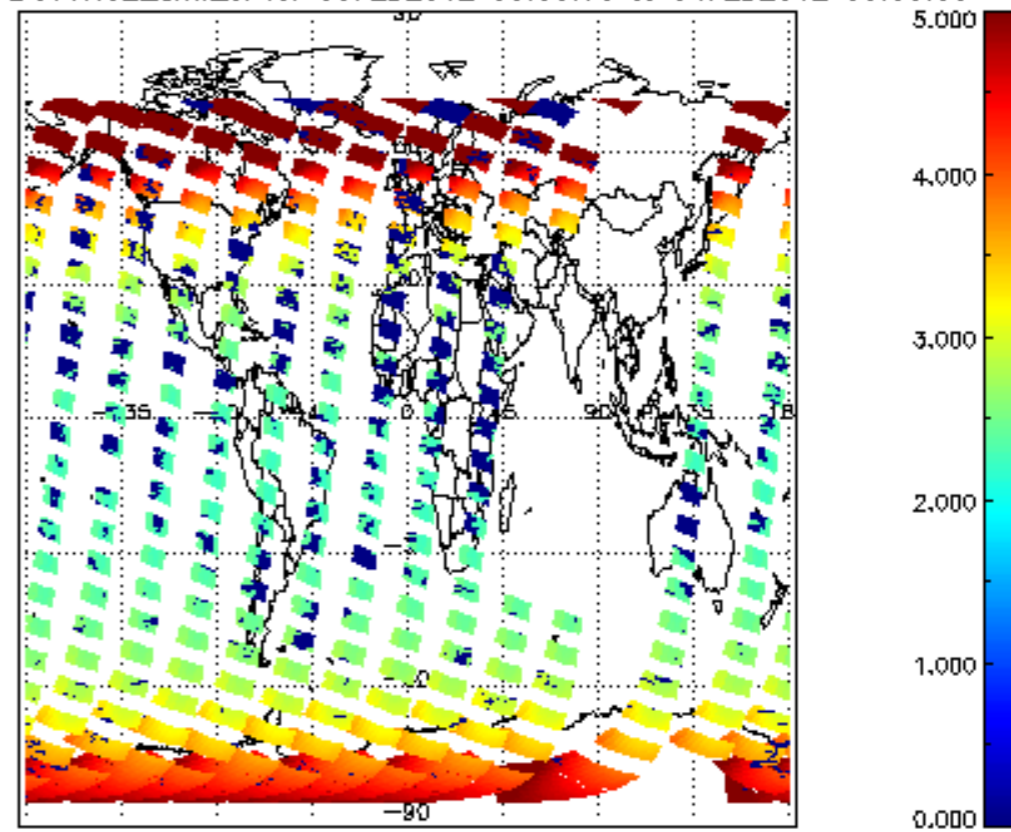
SCIOL2P_NADUV1N02_vcd_err for 03FEB2012 00:00:00 to 04FEB2012 00:00:00

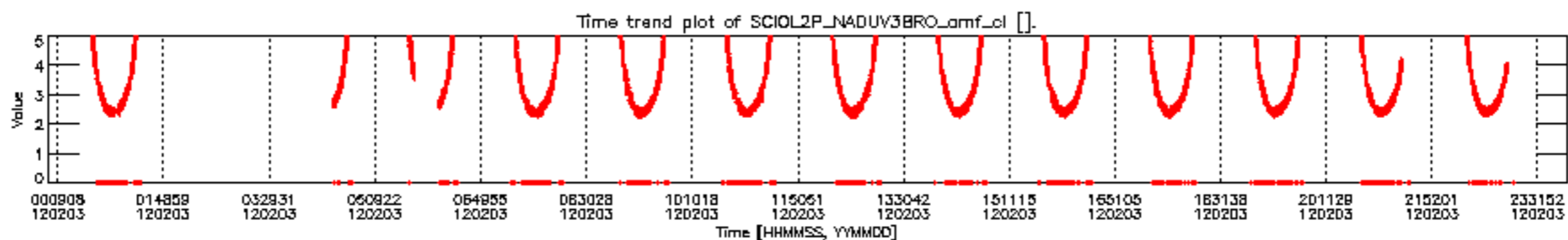
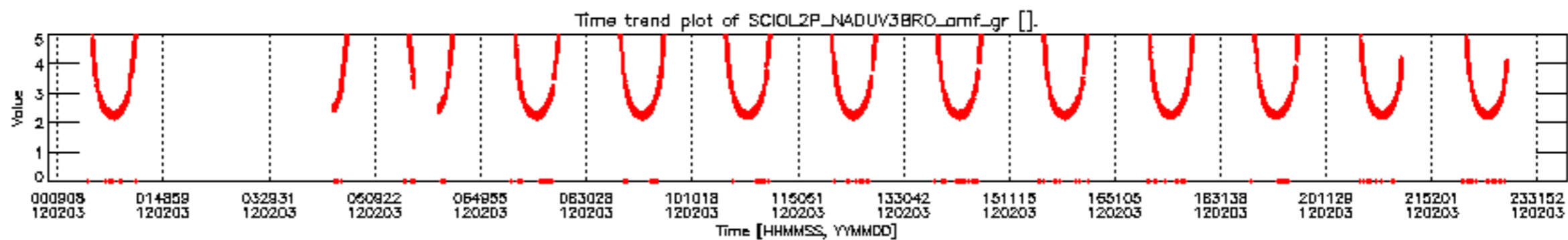
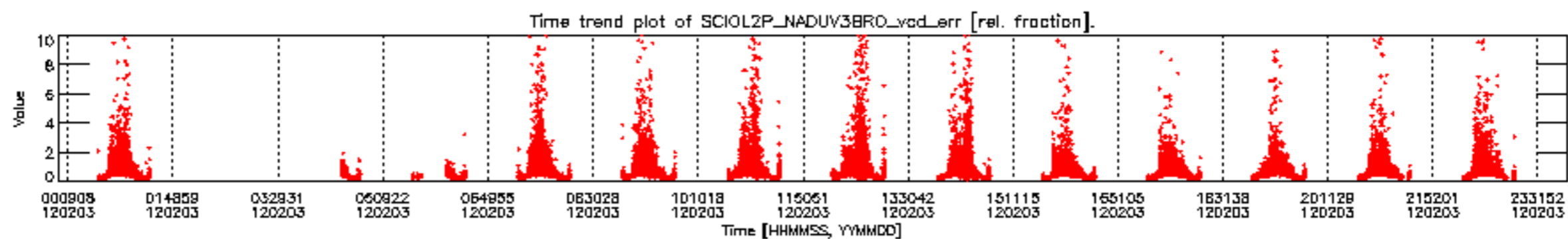
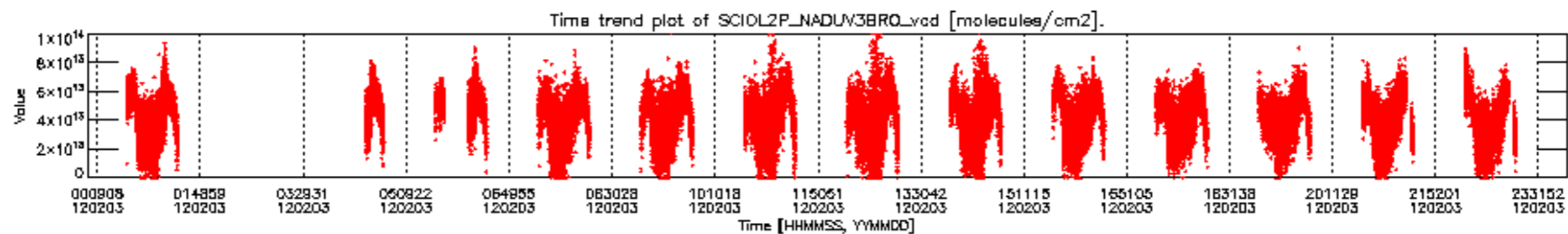


SCIOL2P_NADUV1N02_amf_gr for 03FEB2012 00:00:00 to 04FEB2012 00:00:00

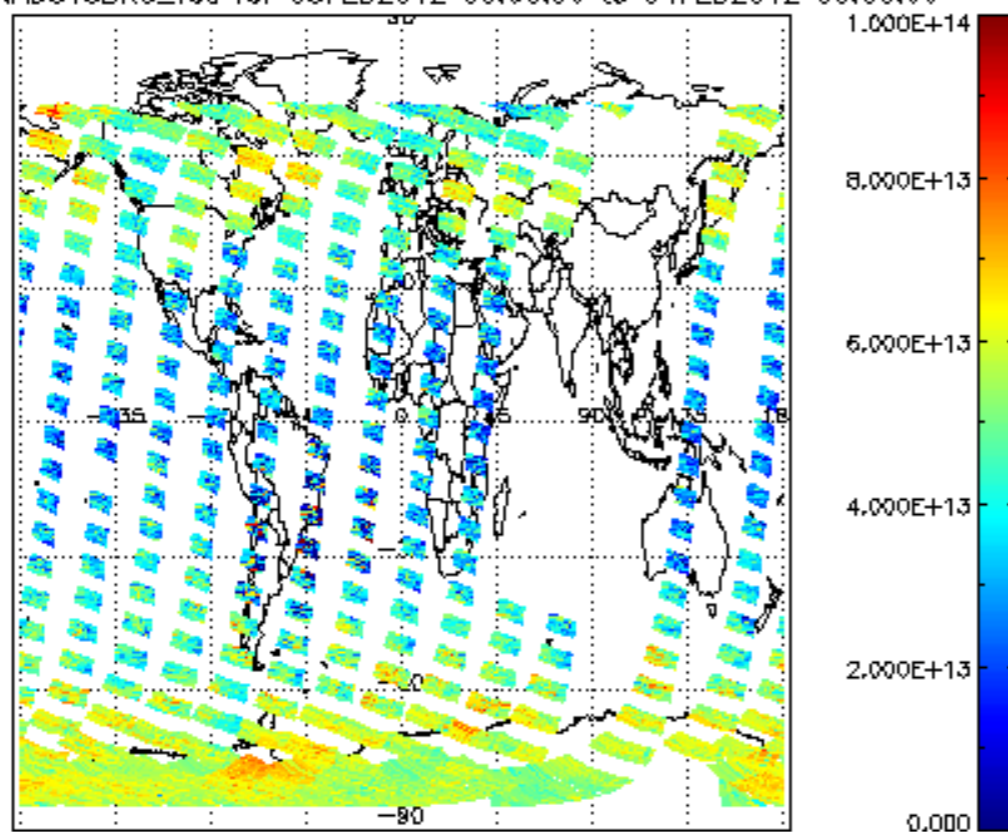


SCIOL2P_NADUV1N02_amf_cl for 03FEB2012 00:00:00 to 04FEB2012 00:00:00

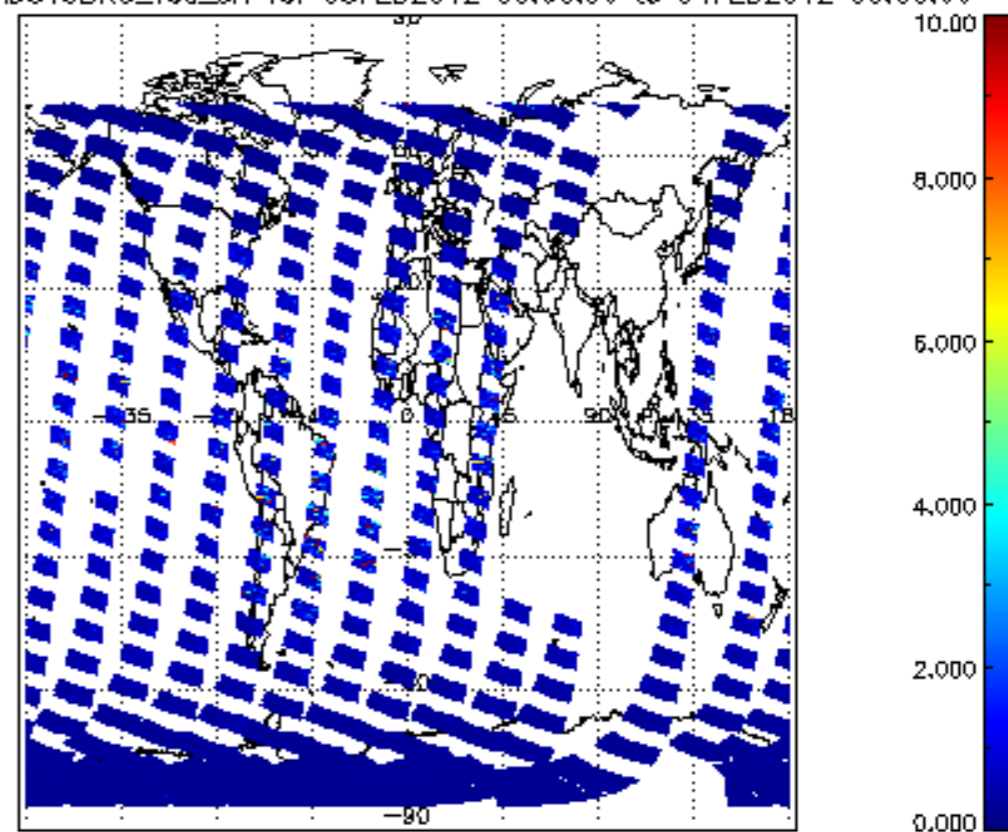




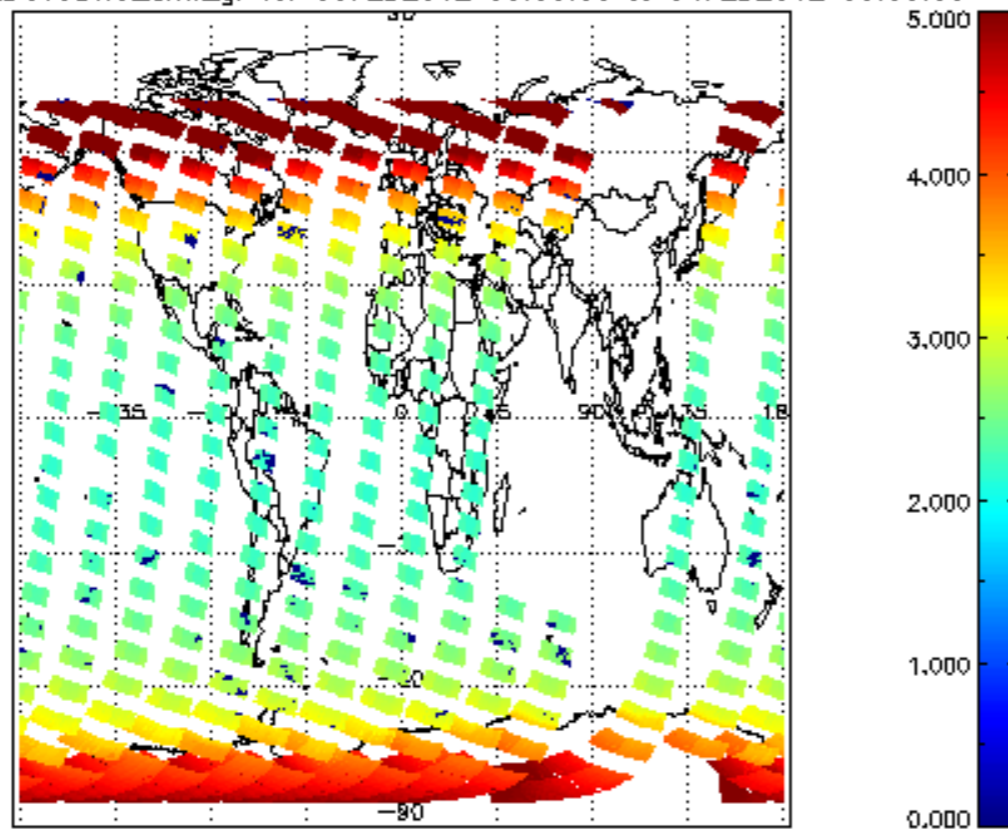
SCIOL2P_NADUV3BRO_vcd for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



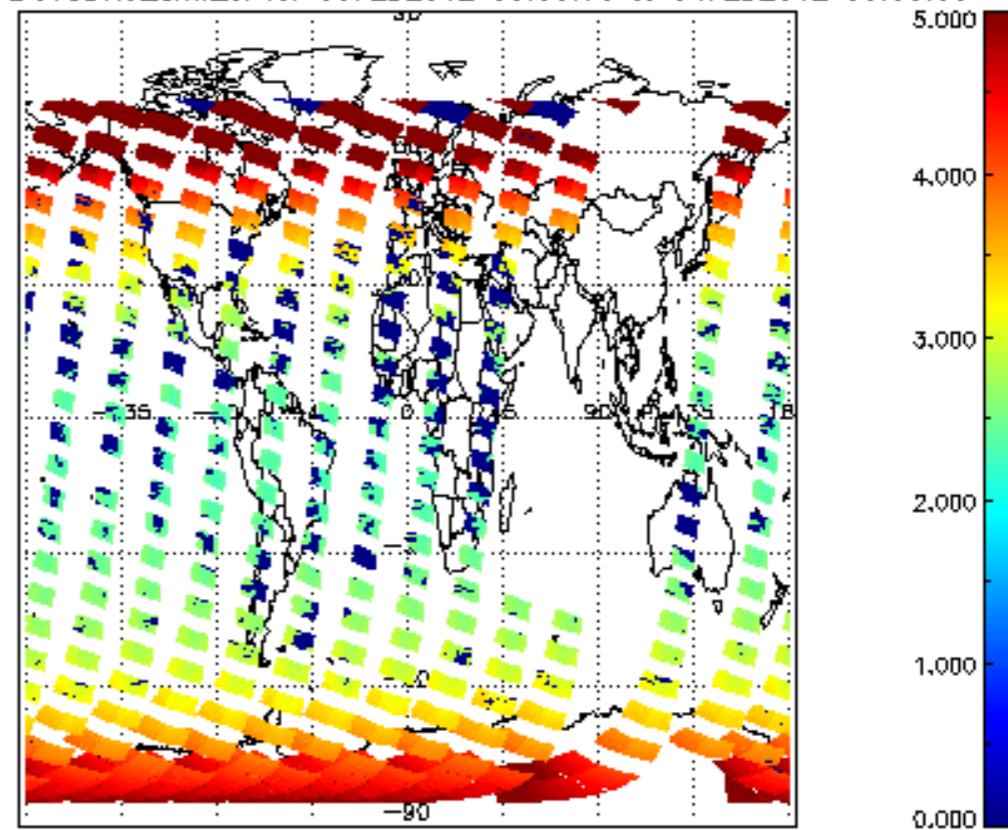
SCIOL2P_NADUV3BRO_vcd_err for 03FEB2012 00:00:00 to 04FEB2012 00:00:00

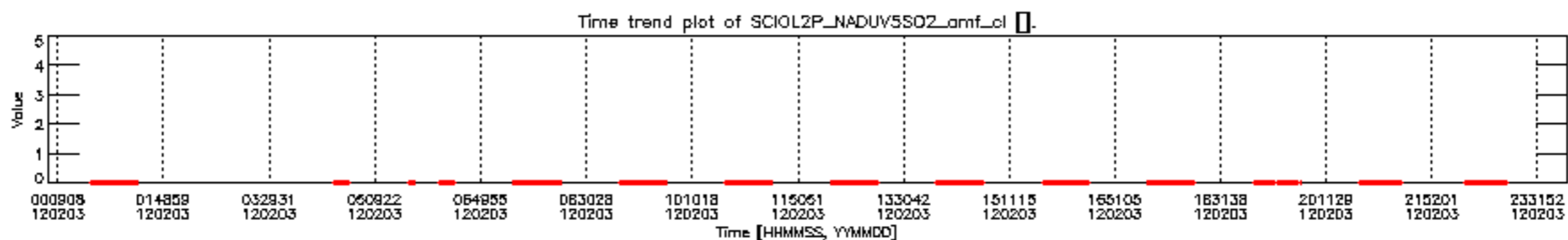
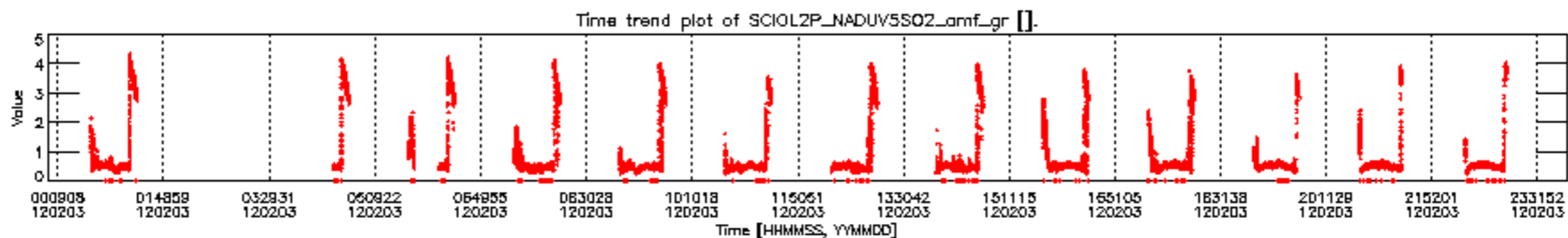
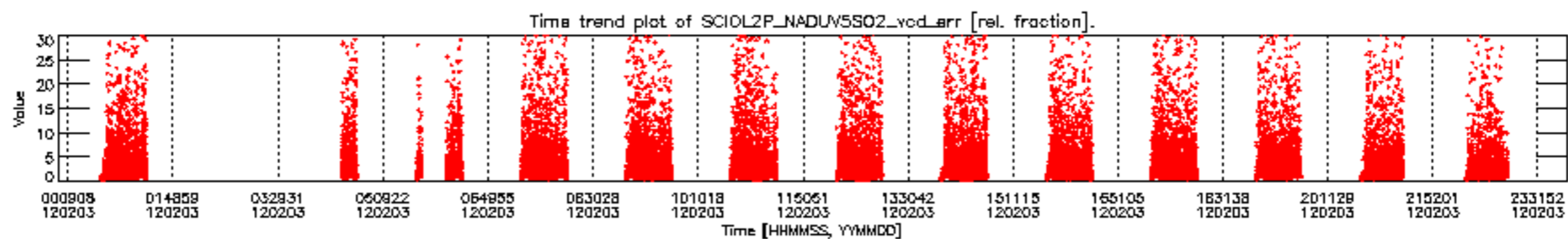
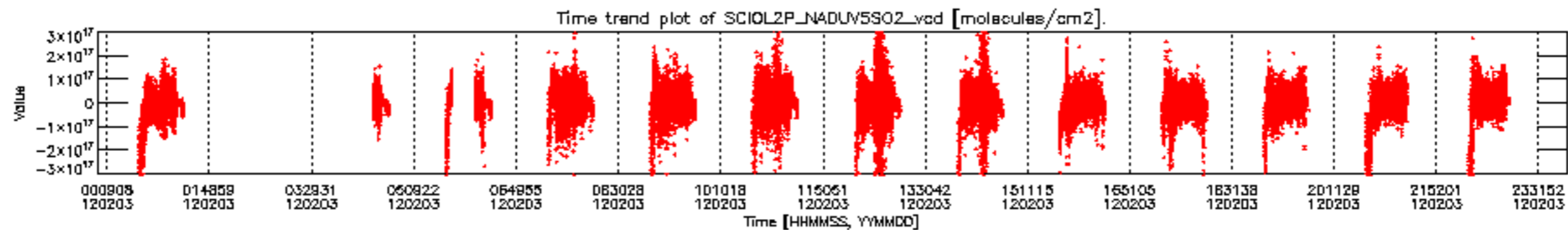


SCIOL2P_NADUV3BRO_amf_gr for 03FEB2012 00:00:00 to 04FEB2012 00:00:00

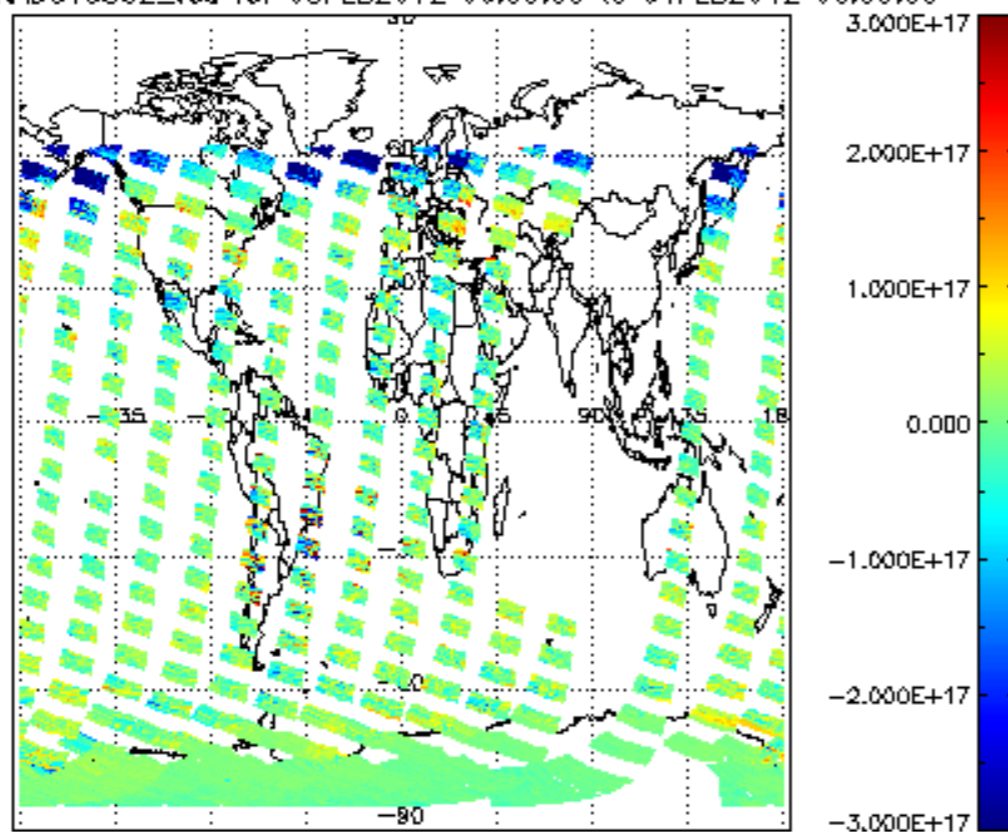


SCIOL2P_NADUV3BRO_amf_cl for 03FEB2012 00:00:00 to 04FEB2012 00:00:00

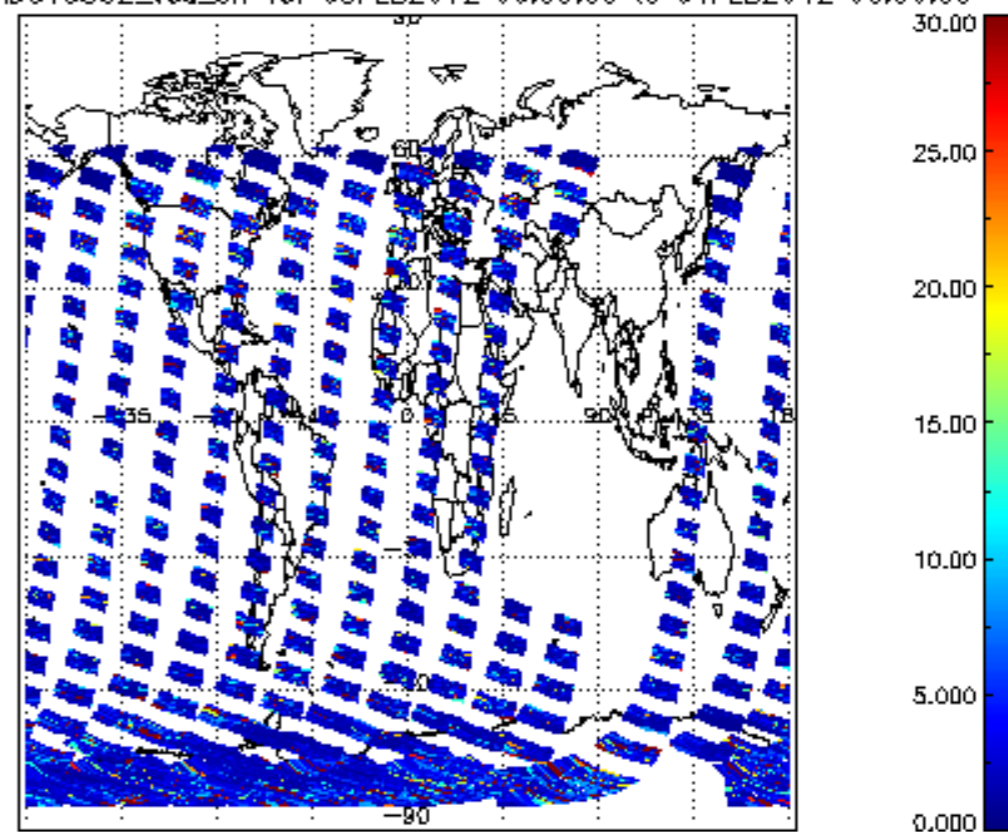




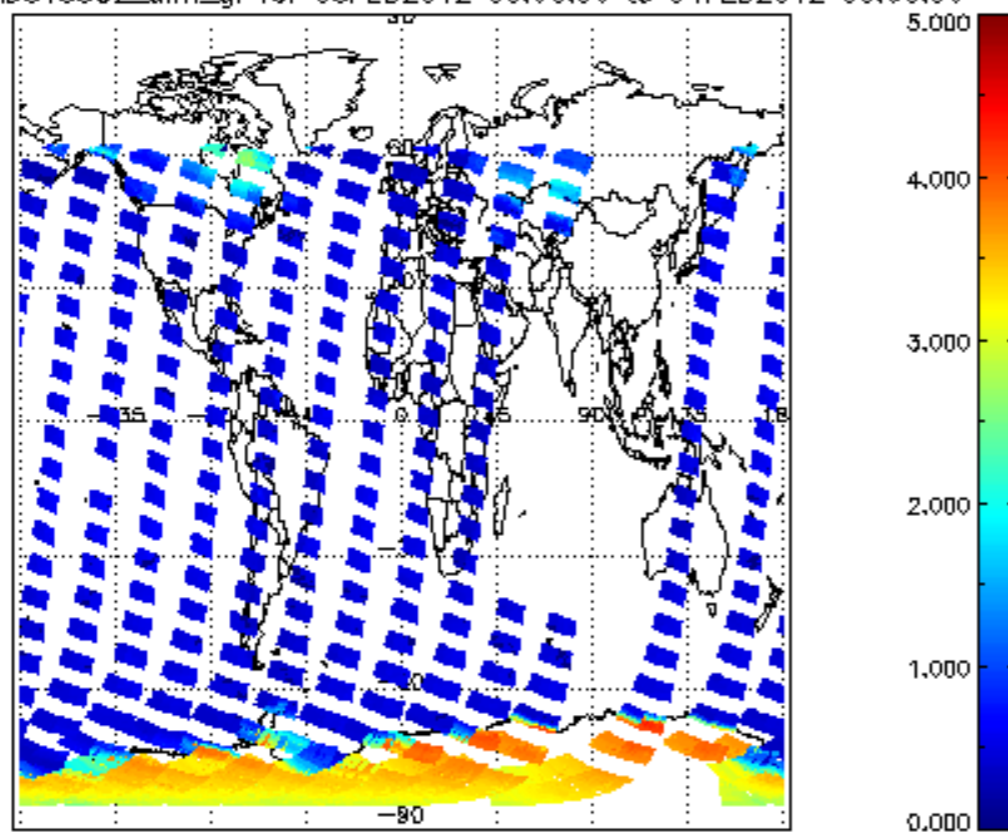
SCIOL2P_NADUV5S02_vcd for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



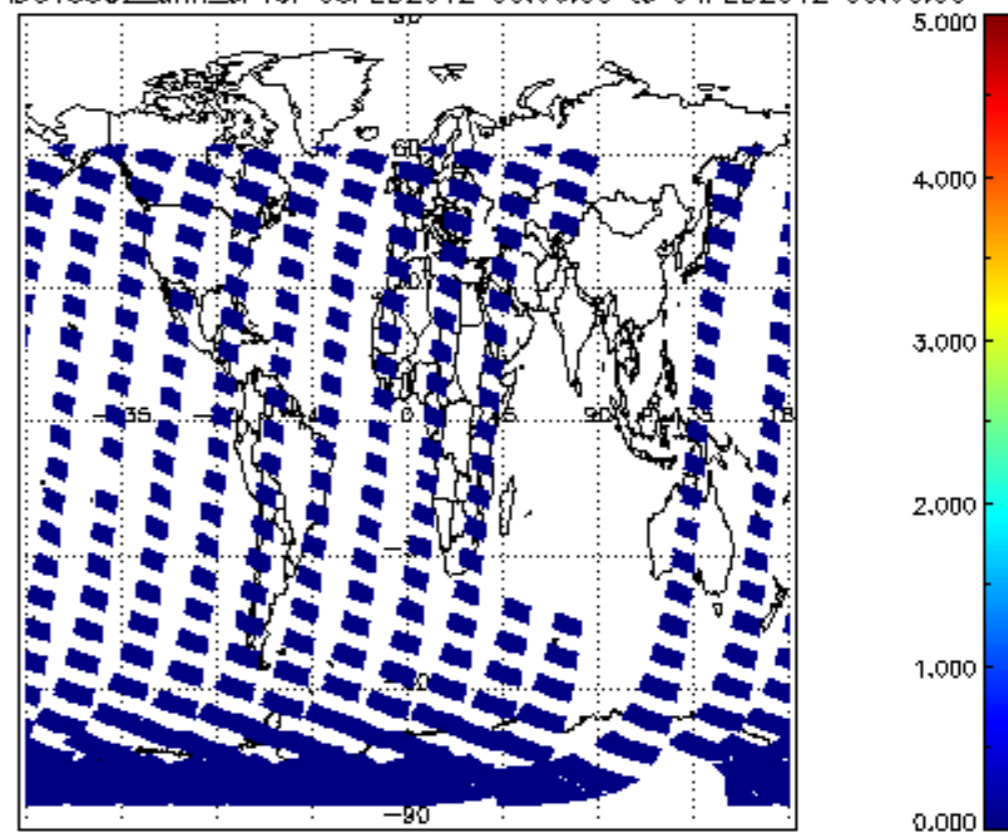
SCIOL2P_NADUV5S02_vcd_err for 03FEB2012 00:00:00 to 04FEB2012 00:00:00

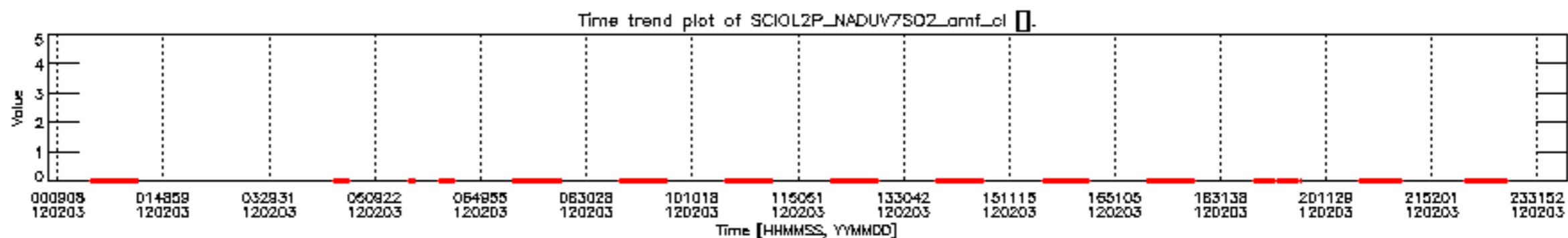
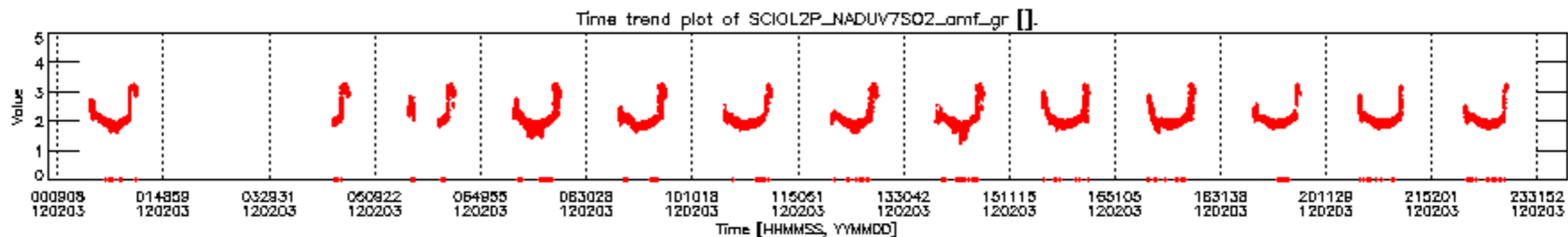
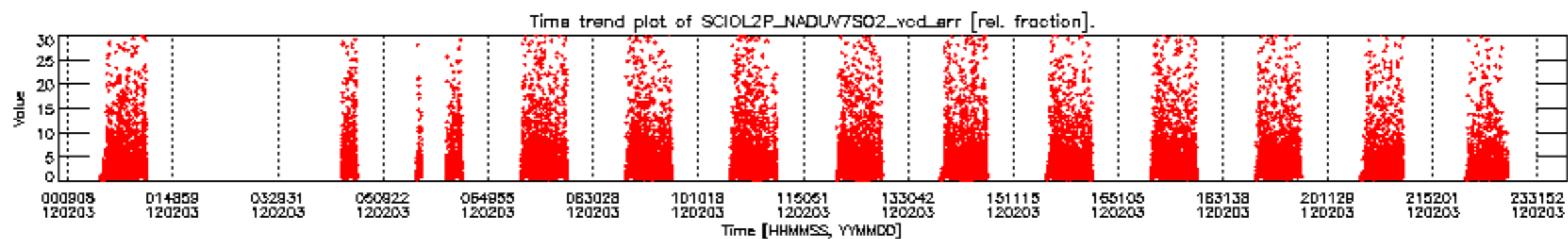
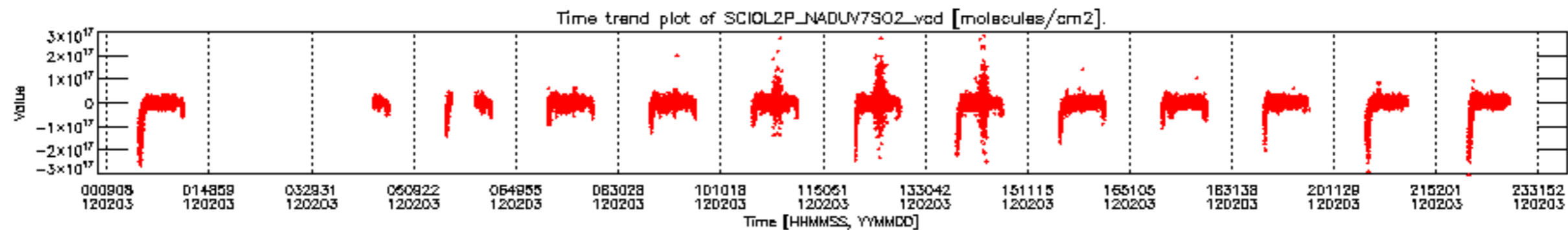


SCIOL2P_NADUV5S02_amf_gr for 03FEB2012 00:00:00 to 04FEB2012 00:00:00

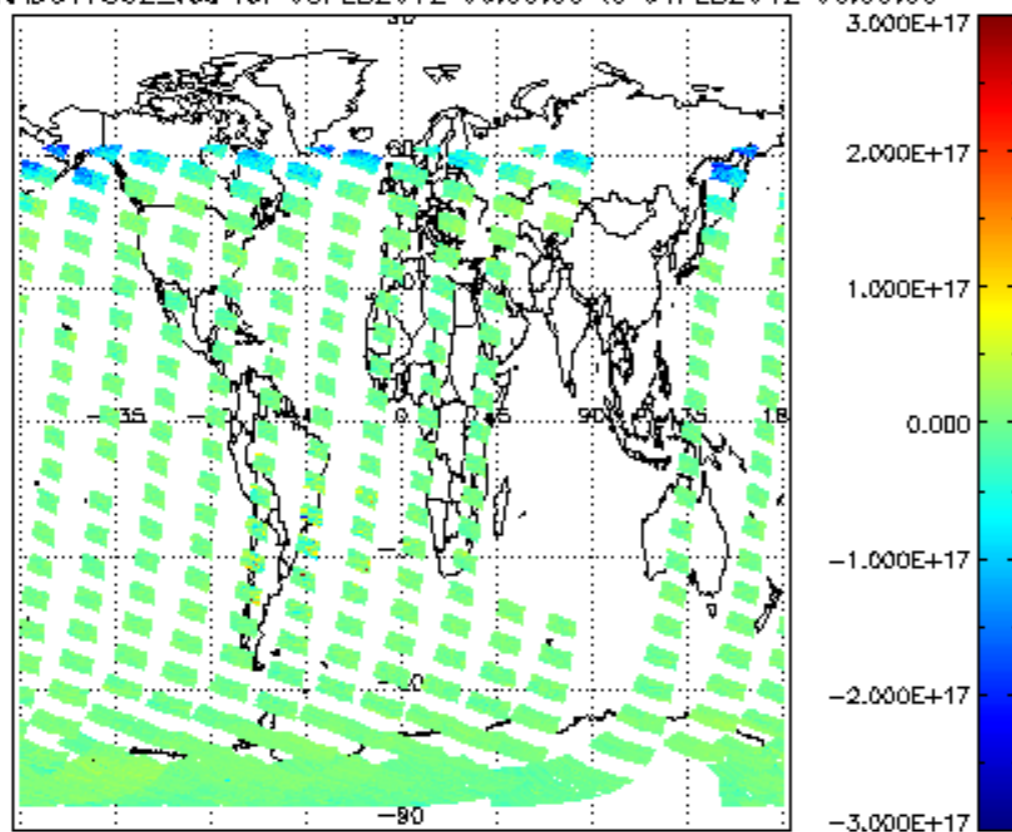


SCIOL2P_NADUV5S02_amf_cl for 03FEB2012 00:00:00 to 04FEB2012 00:00:00

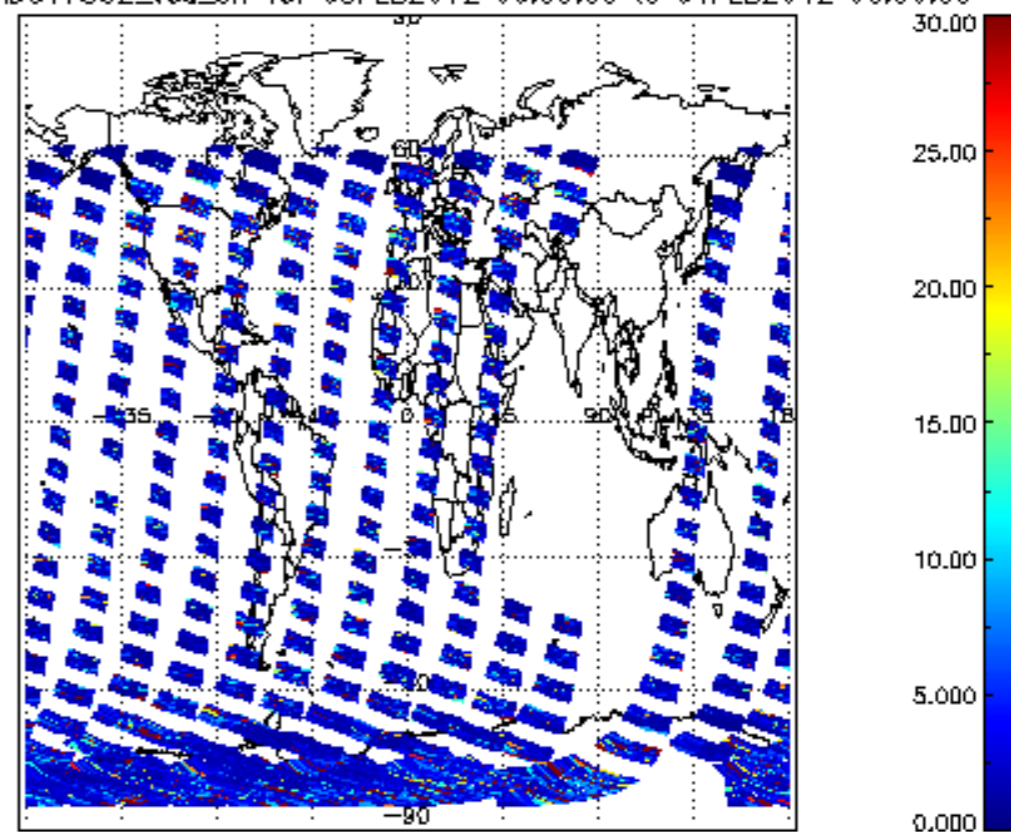




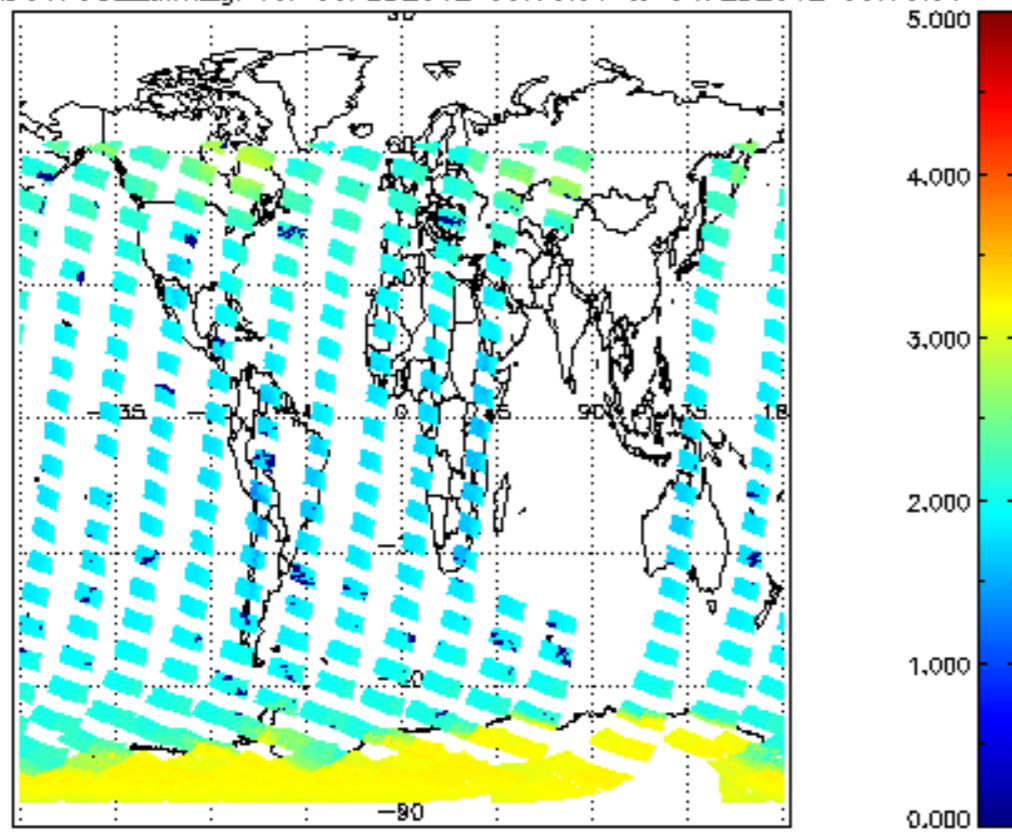
SCIOL2P_NADUV7S02_vcd for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



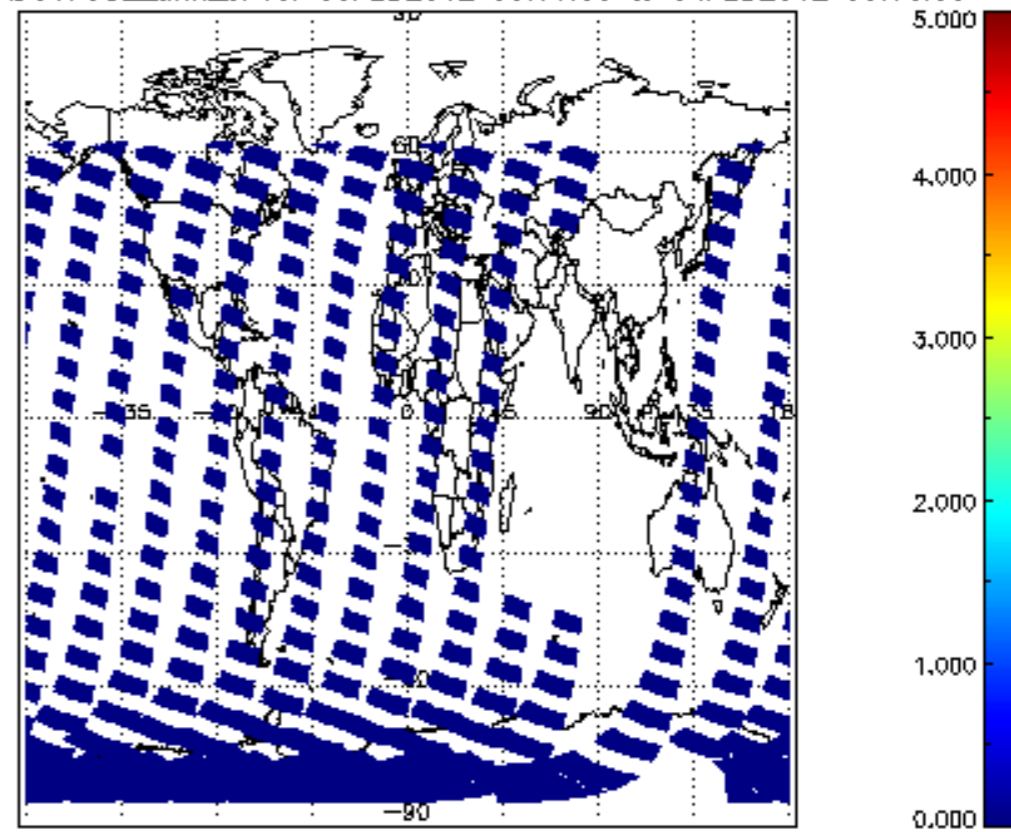
SCIOL2P_NADUV7S02_vcd_err for 03FEB2012 00:00:00 to 04FEB2012 00:00:00

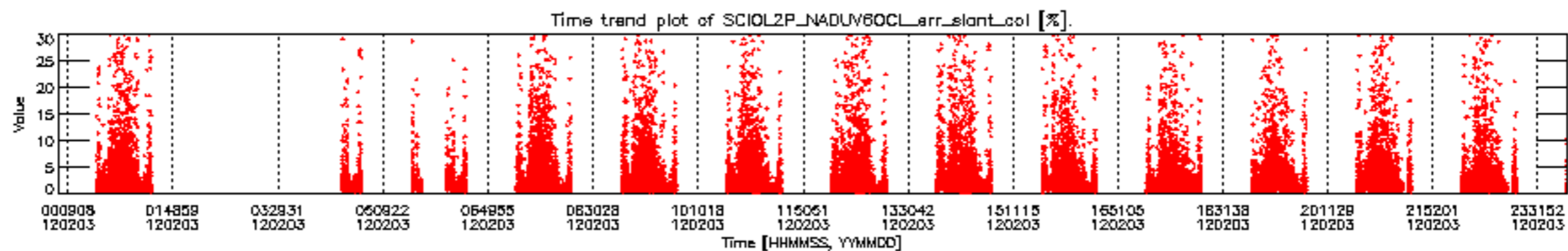
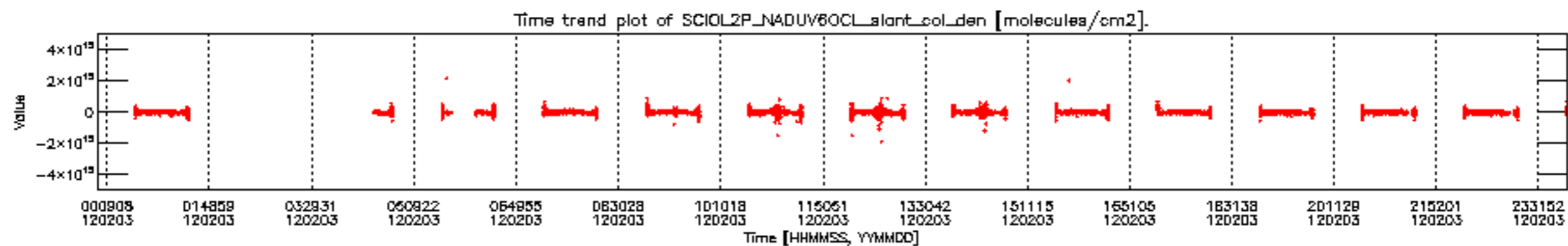


SCIOL2P_NADUV7S02_amf_gr for 03FEB2012 00:00:00 to 04FEB2012 00:00:00

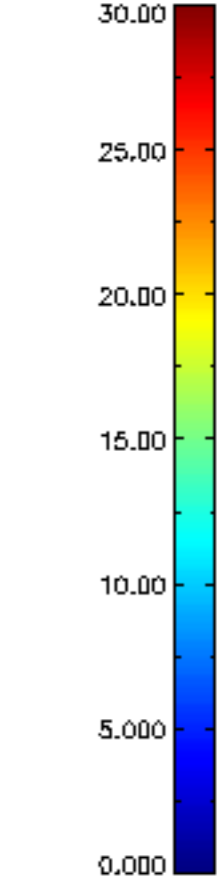
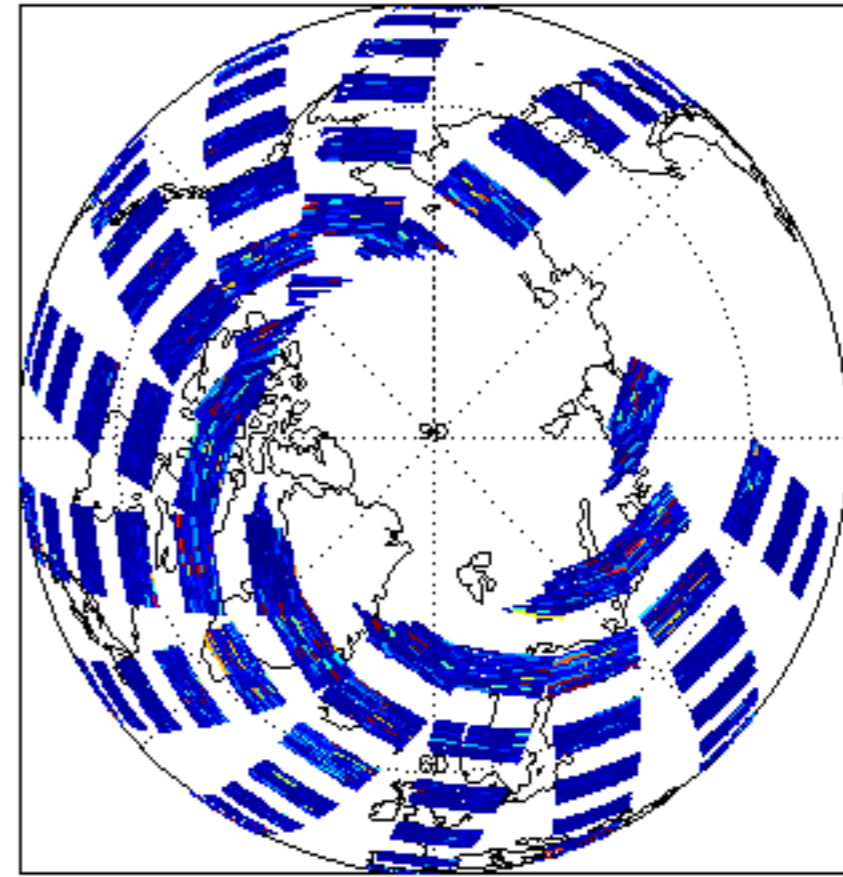
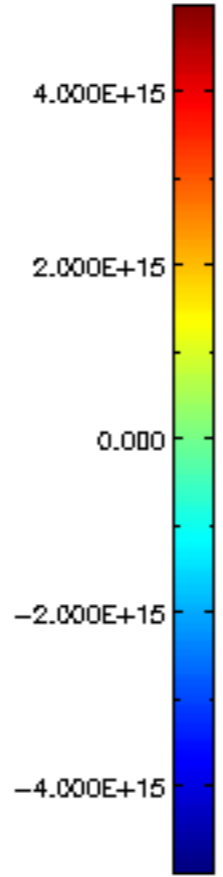
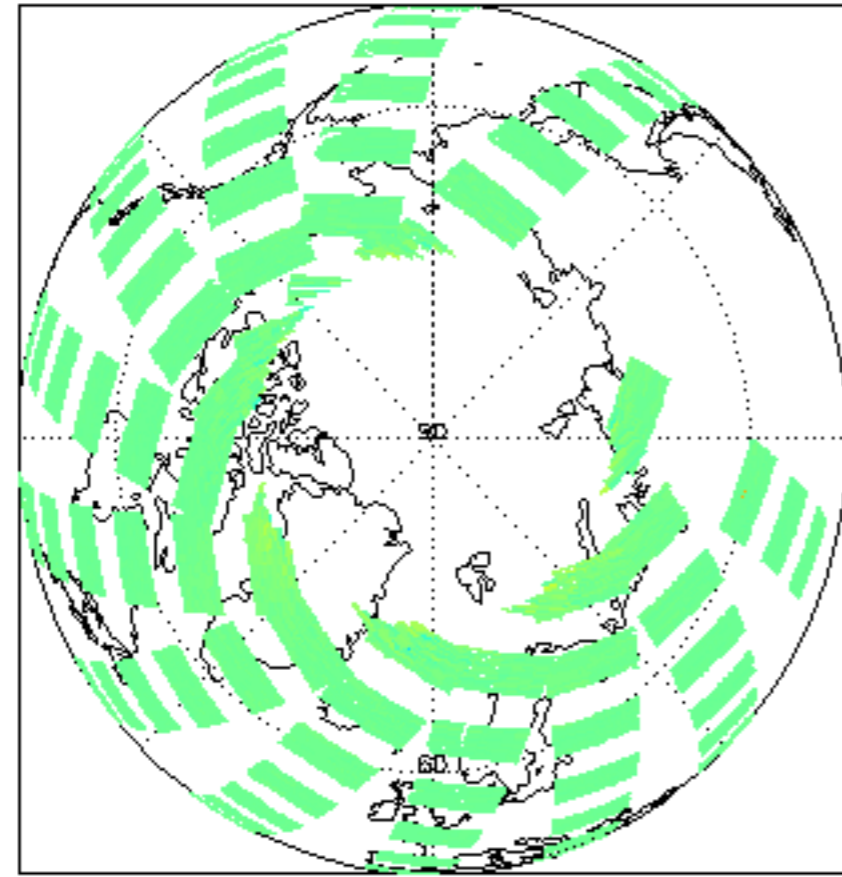


SCIOL2P_NADUV7S02_amf_cl for 03FEB2012 00:00:00 to 04FEB2012 00:00:00

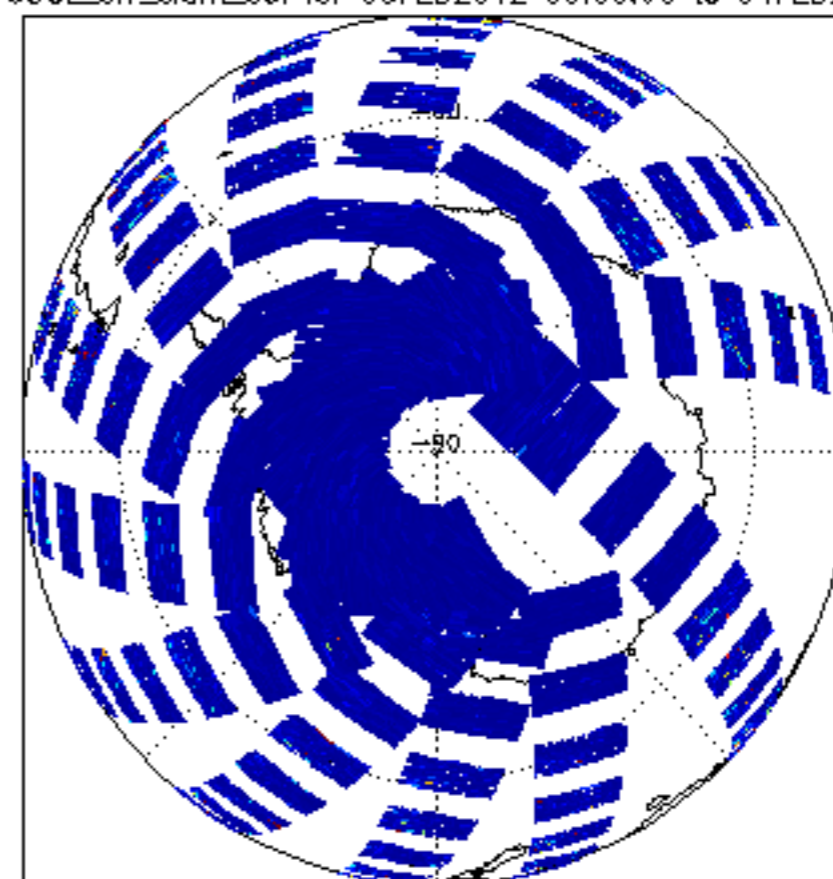
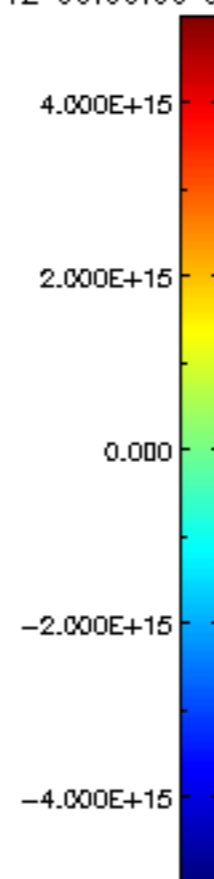
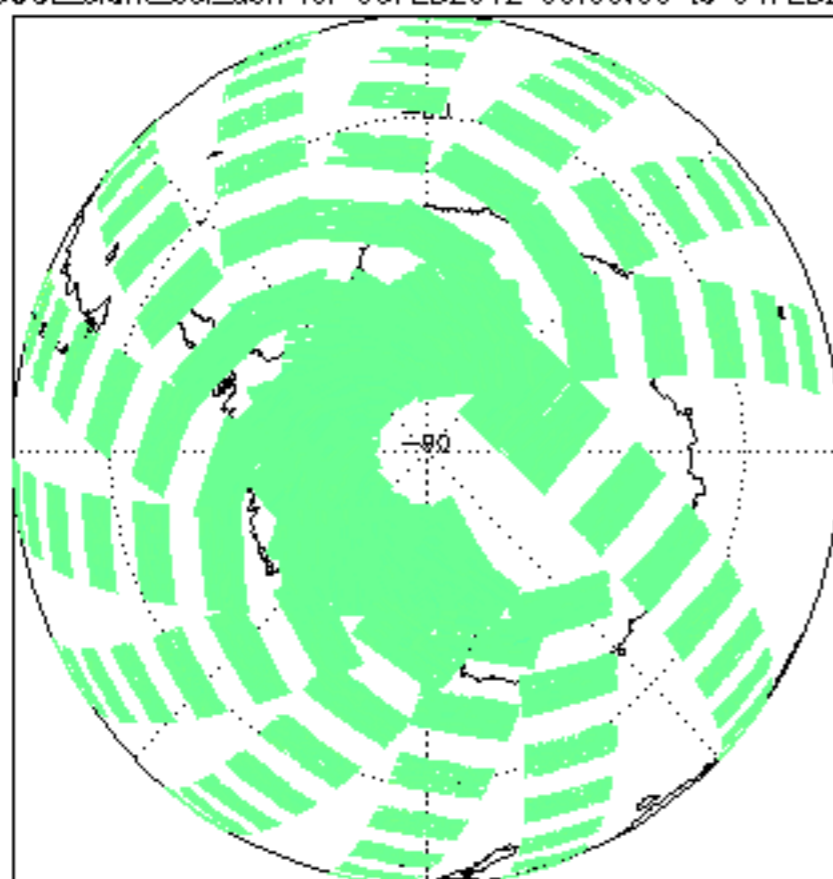


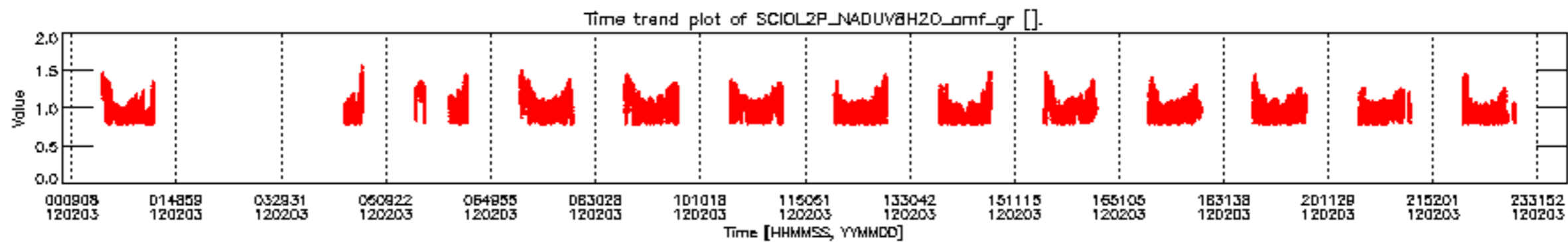
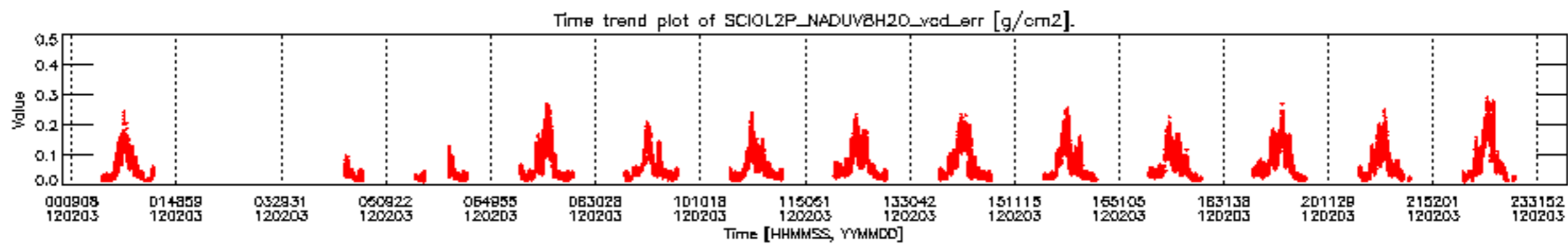
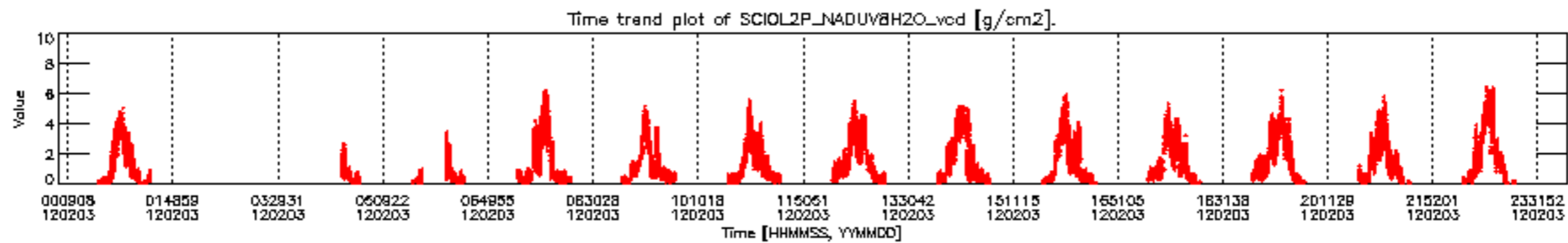


CIOL2P_NADUV6OCL_slant_col_den for 03FEB2012 00:00:00 to 04FEB2012 00:00:00 np; CIOL2P_NADUV6OCL_err_slant_col for 03FEB2012 00:00:00 to 04FEB2012 00:00:00 np

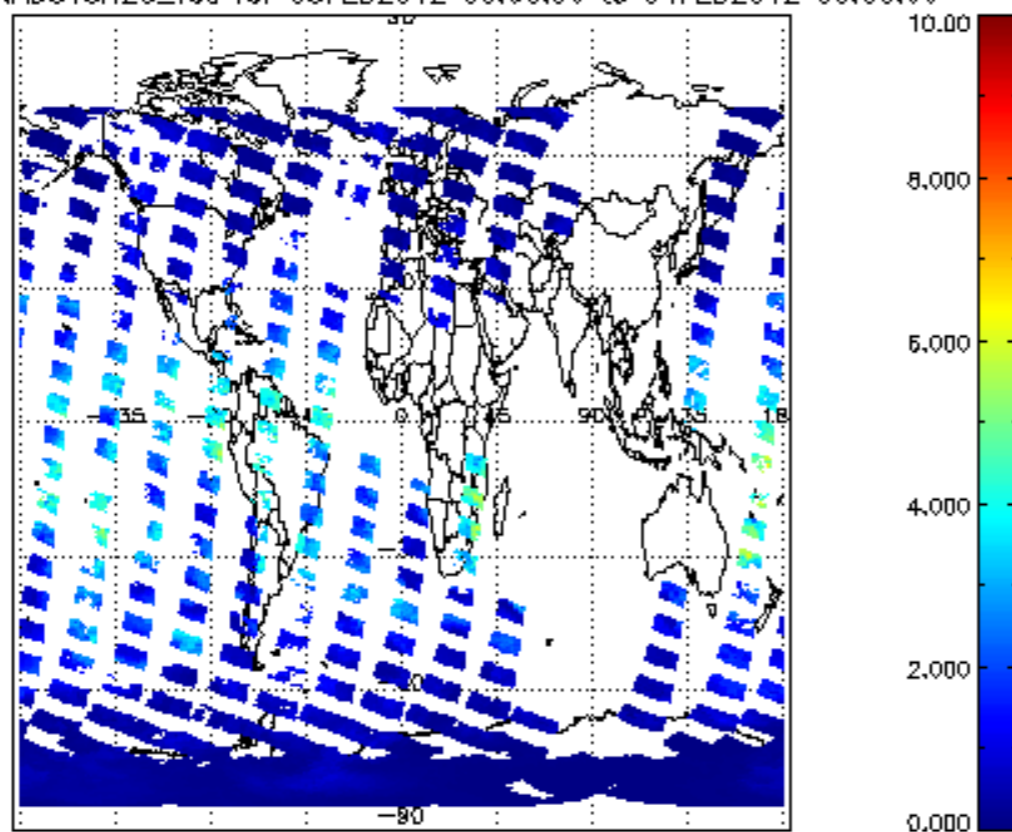


CIOL2P_NADUV6OCL_slant_col_den for 03FEB2012 00:00:00 to 04FEB2012 00:00:00 sp; CIOL2P_NADUV6OCL_err_slant_col for 03FEB2012 00:00:00 to 04FEB2012 00:00:00 sp

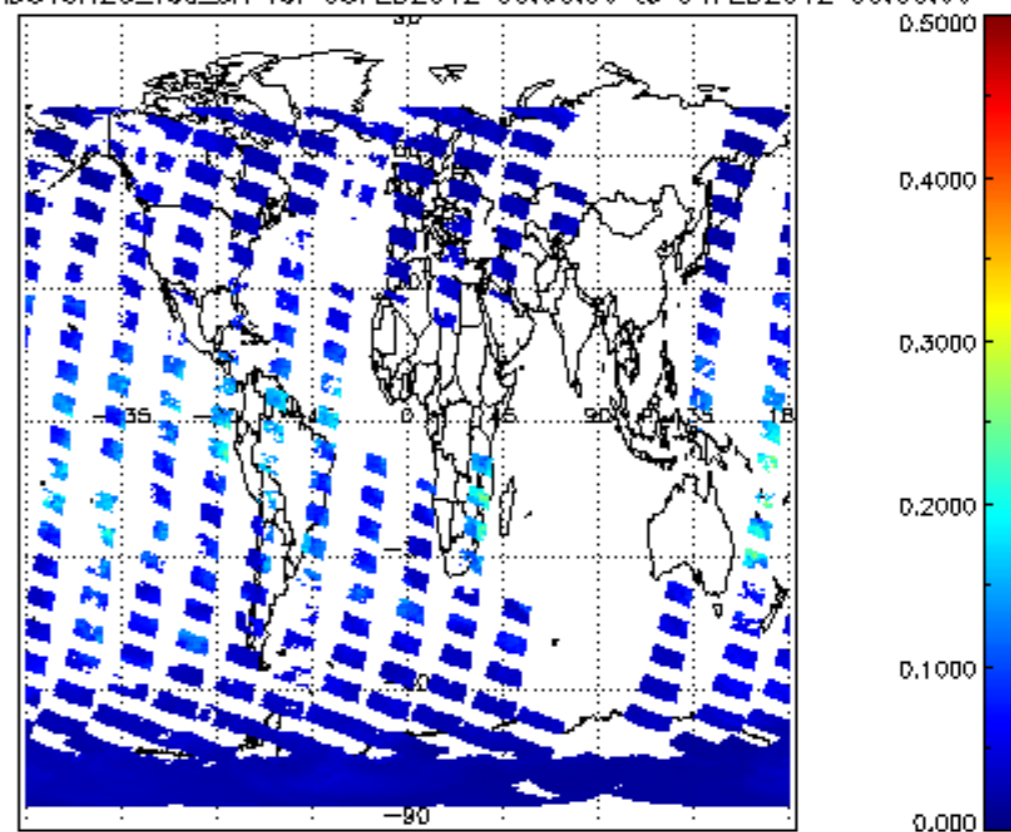




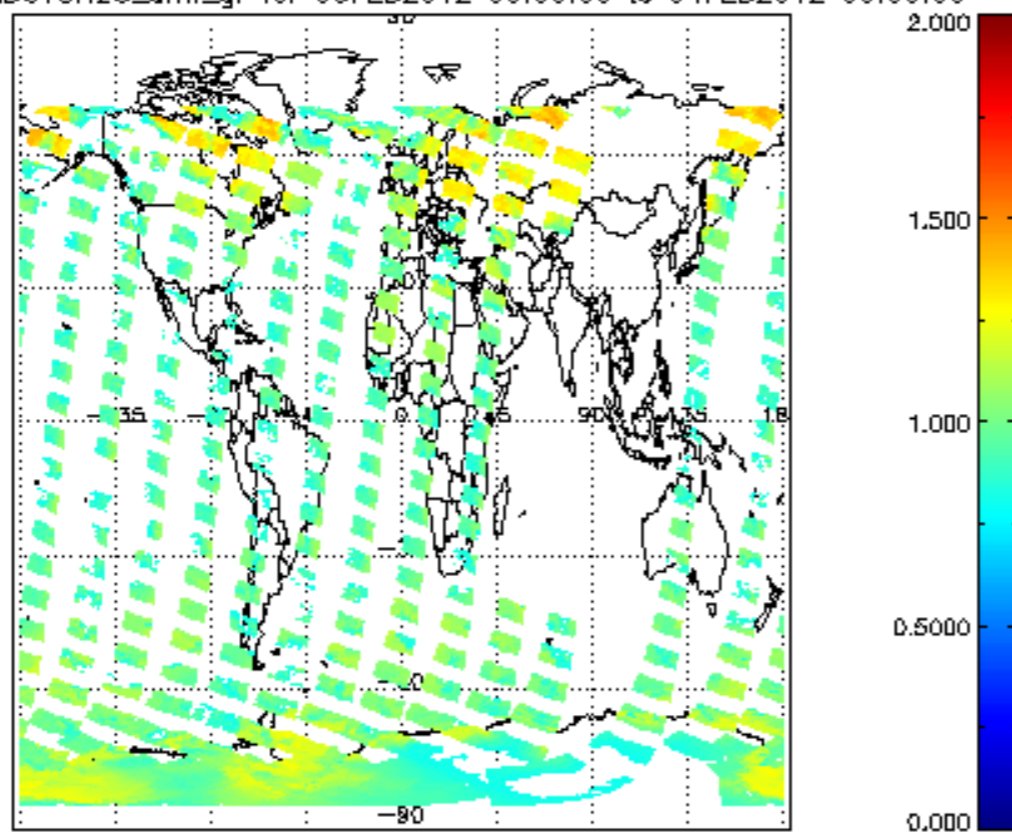
SCIOL2P_NADUV8H20_vcd for 03FEB2012 00:00:00 to 04FEB2012 00:00:00

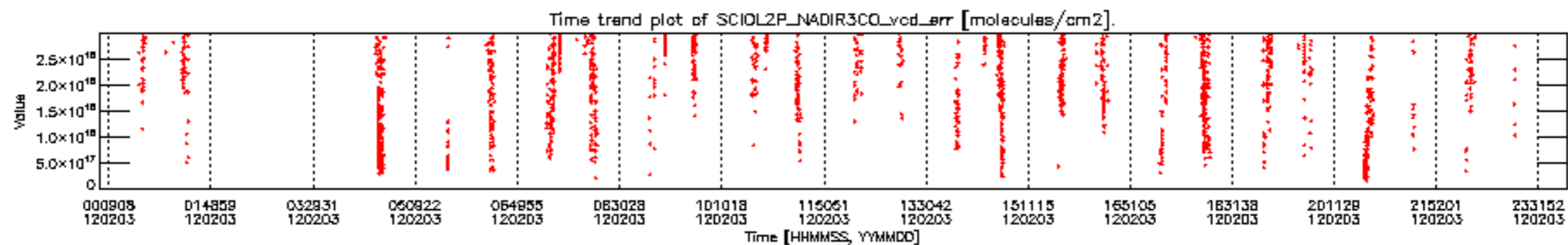
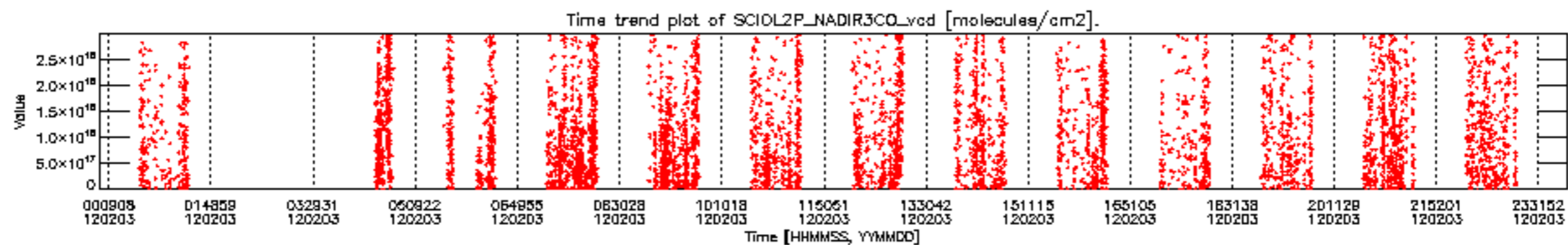


SCIOL2P_NADUV8H20_vcd_err for 03FEB2012 00:00:00 to 04FEB2012 00:00:00

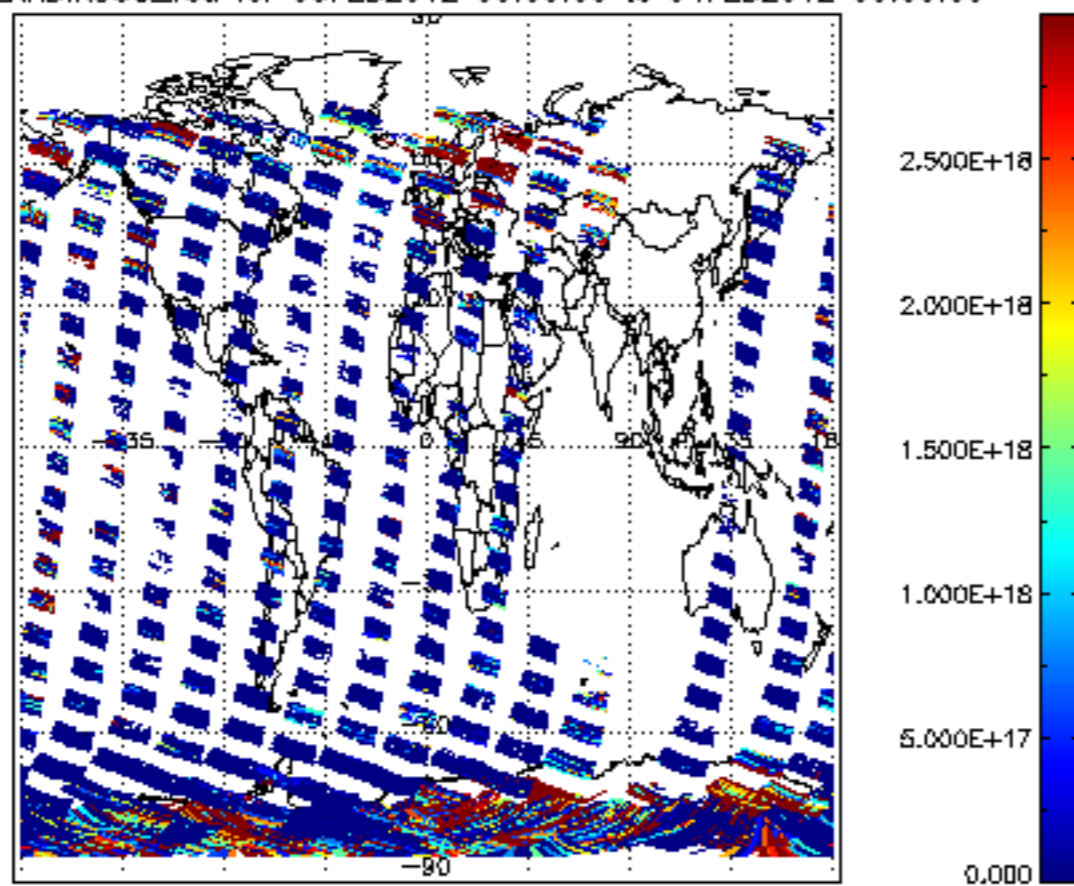


SCIOL2P_NADUV8H20_amf_gr for 03FEB2012 00:00:00 to 04FEB2012 00:00:00

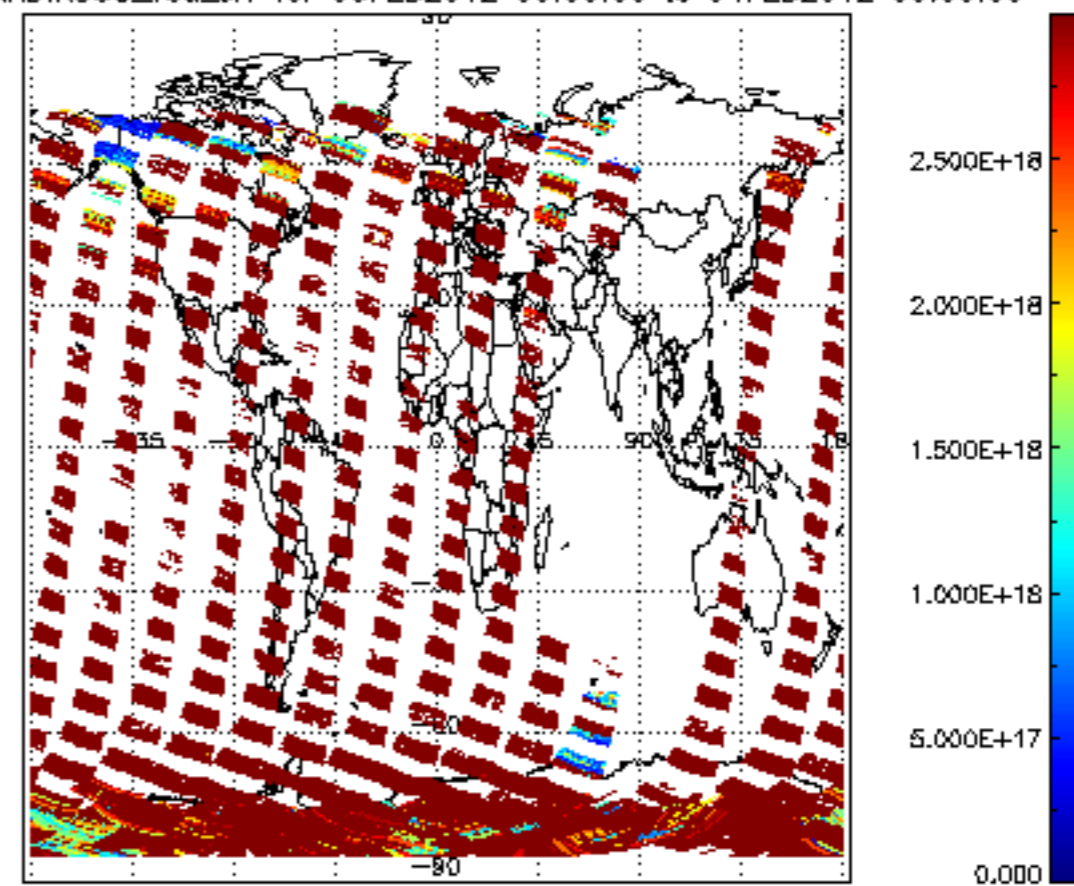




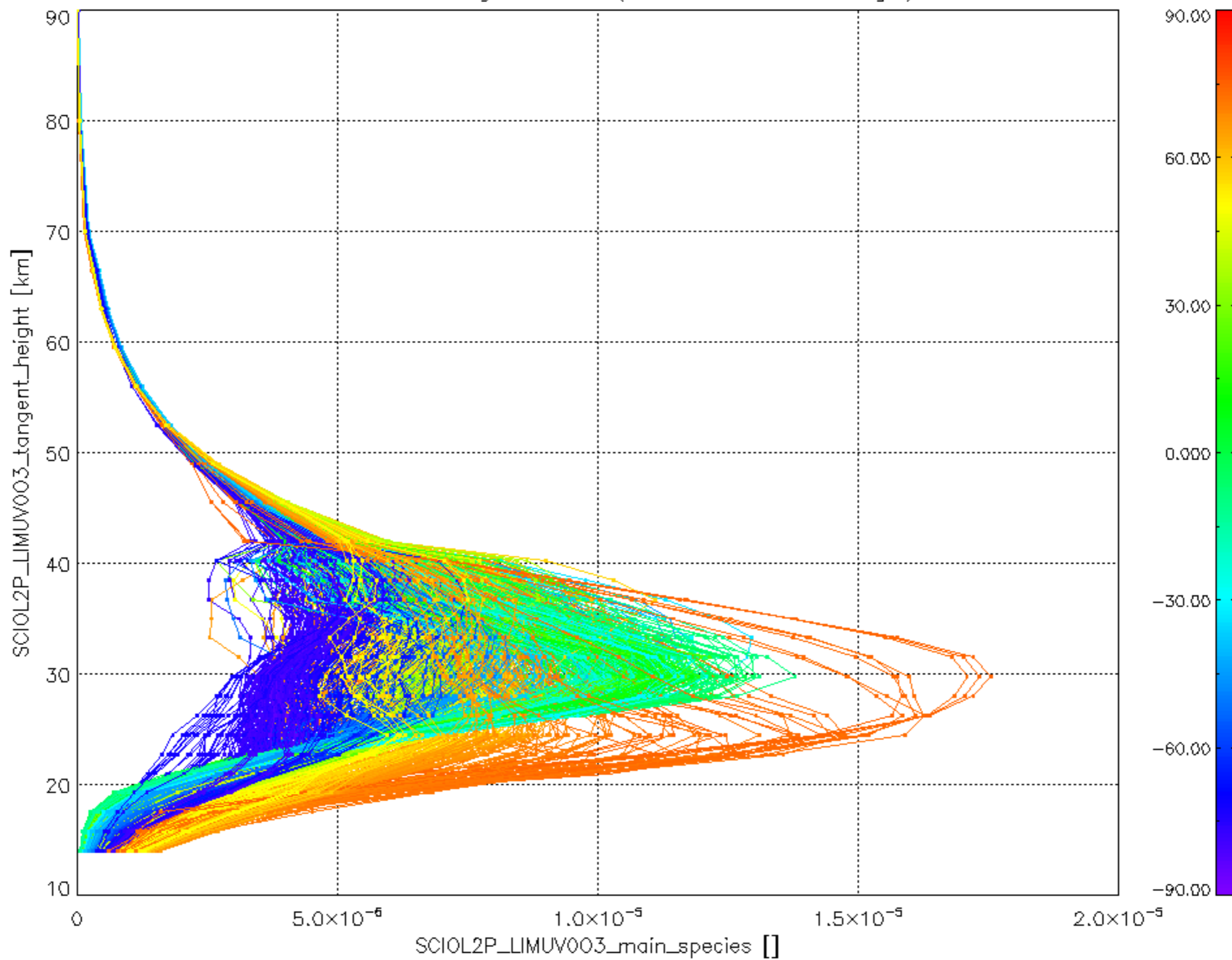
SCIOL2P_NADIR3CO_vcd for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



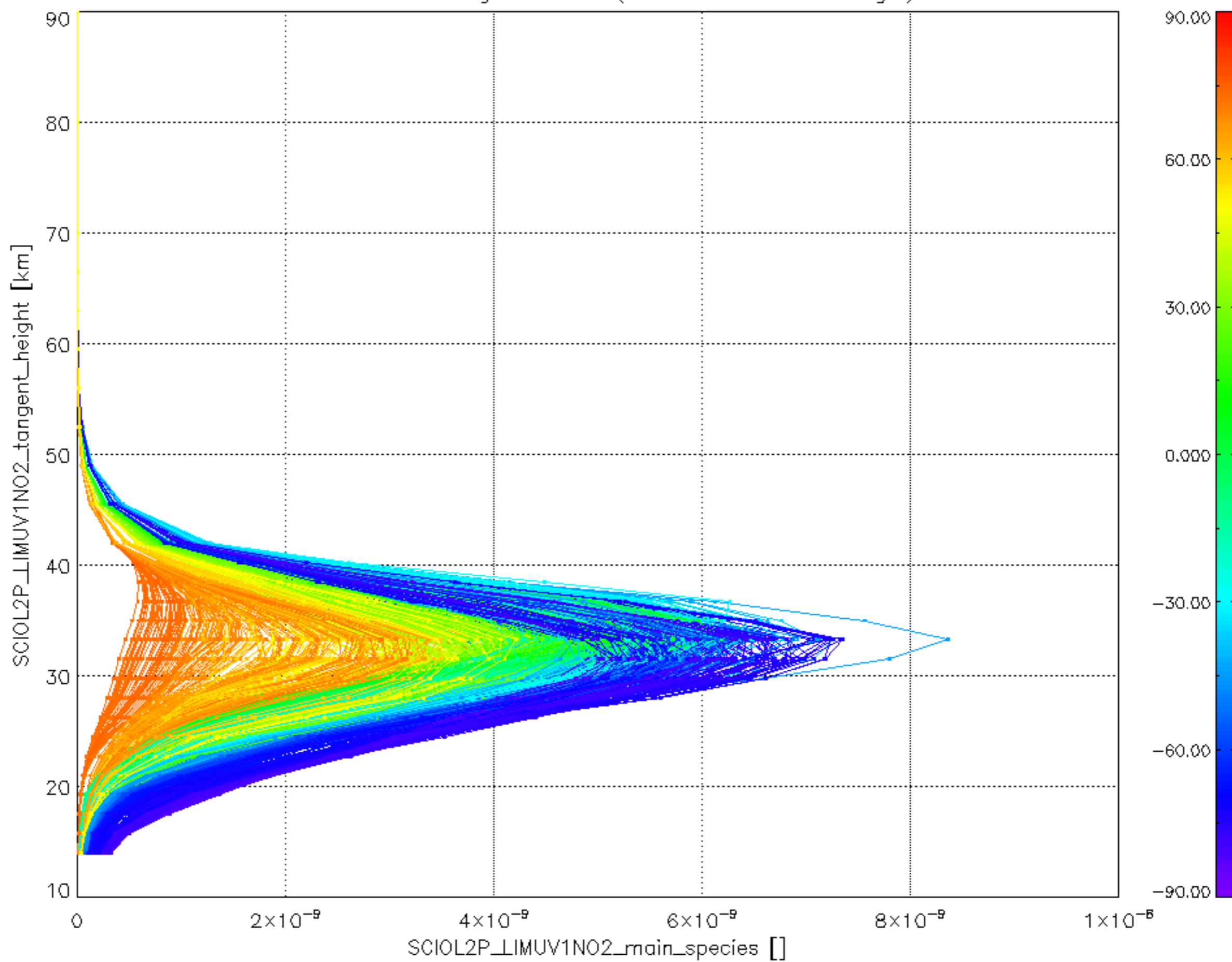
SCIOL2P_NADIR3CO_vcd_err for 03FEB2012 00:00:00 to 04FEB2012 00:00:00



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).

