

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	11FEB2012 03:16:12
Data source version	SCIA-OL/5.02-W
Processing scope for products	29JAN2012 00:00:00 to 30JAN2012 00:00:00
Start time of first product within scope	29JAN2012 00:13:46
Stop time of last product within scope	30JAN2012 00:36:17
Total number of level 2 products	14
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__2PWDP20120129_001346_000035163111_00117_51855_3312.N1	29JAN2012 00:13:46	29JAN2012 01:12:22	0	GOOD
1	SCI_OL__2PWDP20120129_020056_000031573111_00118_51856_3311.N1	29JAN2012 02:00:56	29JAN2012 02:53:34	0	GOOD
2	SCI_OL__2PWDP20120129_034001_000032133111_00119_51857_3319.N1	29JAN2012 03:40:01	29JAN2012 04:33:34	0	GOOD
3	SCI_OL__2PWDP20120129_052123_000031573111_00120_51858_3318.N1	29JAN2012 05:21:23	29JAN2012 06:14:01	0	GOOD
4	SCI_OL__2PWDP20120129_070028_000032133111_00121_51859_3325.N1	29JAN2012 07:00:28	29JAN2012 07:54:02	0	GOOD

5	SCI_OL__2PWDP	A20120129_084150_000031573111_00122_51860_3320.N1	29JAN2012 08:41:50	29JAN2012 09:34:28	0	GOOD
6	SCI_OL__2PWDP	A20120129_102055_000032133111_00123_51861_3317.N1	29JAN2012 10:20:55	29JAN2012 11:14:29	0	GOOD
7	SCI_OL__2PWDP	A20120129_120217_000031573111_00124_51862_3315.N1	29JAN2012 12:02:17	29JAN2012 12:54:55	0	GOOD
8	SCI_OL__2PWDP	A20120129_134122_000032133111_00125_51863_3316.N1	29JAN2012 13:41:22	29JAN2012 14:34:56	0	GOOD
9	SCI_OL__2PWDP	A20120129_152244_000031573111_00126_51864_3314.N1	29JAN2012 15:22:44	29JAN2012 16:15:22	0	GOOD
10	SCI_OL__2PWDP	A20120129_170149_000032133111_00127_51865_3324.N1	29JAN2012 17:01:49	29JAN2012 17:55:23	0	GOOD
11	SCI_OL__2PWDP	A20120129_184127_000032133111_00128_51866_3323.N1	29JAN2012 18:41:27	29JAN2012 19:35:01	0	GOOD
12	SCI_OL__2PWDP	A20120129_202236_000031453111_00129_51867_3322.N1	29JAN2012 20:22:36	29JAN2012 21:15:02	0	GOOD
13	SCI_OL__2PWDP	A20120129_234243_000032133111_00131_51869_3291.N1	29JAN2012 23:42:43	30JAN2012 00:36:17	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: 146285

Total number of cloud data DSRs with good quality flag (=0): 146285 (100.0 %)

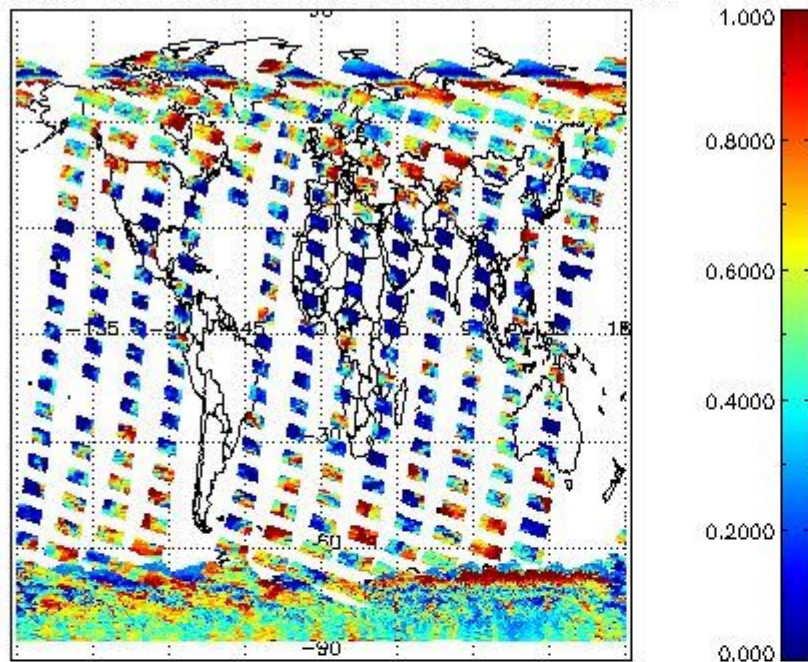
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	146285	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	146285	0.16380	0.12500	0.12500	0.25000	0.057832	s
CL_FRAC	146285	0.44750	0.43172	0.0000	1.0000	0.30209	
CL_FRAC_ERR	146285	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	146285	5.2415	4.0000	4.0000	8.0000	1.8506	
PMD_READ_CL[0]	146285	0.52206	0.0000	0.0000	8.0000	1.4117	-
PMD_READ_CL[1]	146285	1.0006	0.0000	0.0000	8.0000	2.3039	-
CL_TOP_HEIGHT	116650	3.8913	3.0340	0.0000	17.000	3.5807	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	116650	55.906	48.917	0.0000	101.00	40.628	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	146285	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	146285	11001011	11000100	11000000	11100000	3424.3	
AERO_ABSO_IND	146285	0.099658	0.0000	0.0000	9.7629	0.31114	
AERO_IND_DIAG	146285	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	146285	01010001	00000000	00000000	11000000	24313.	

Time and geolocation plots:

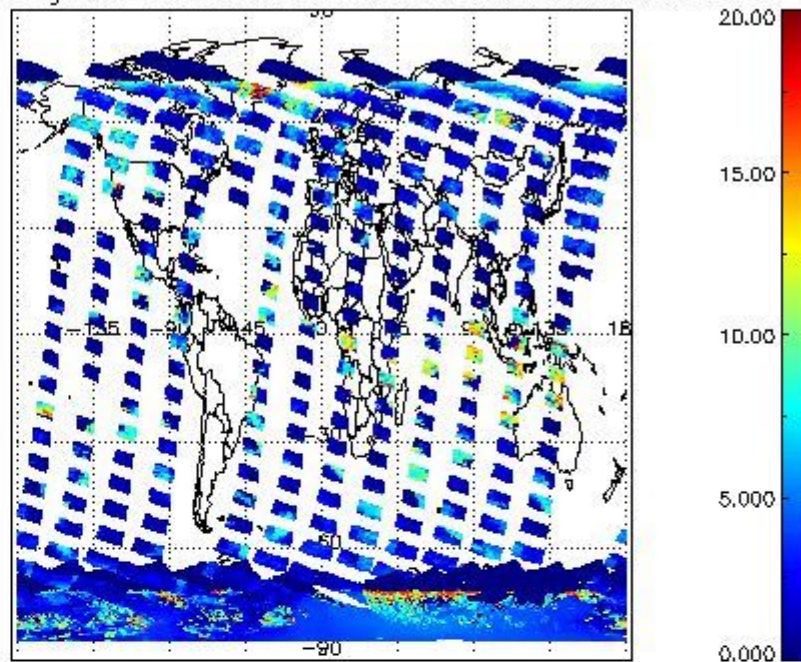
Plots are available for the following parameters:

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

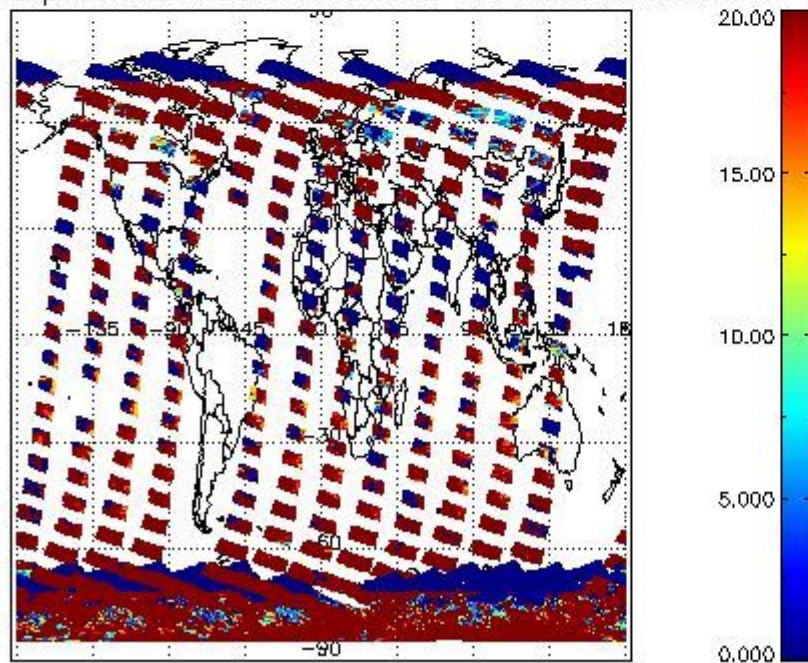
cL_frac for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



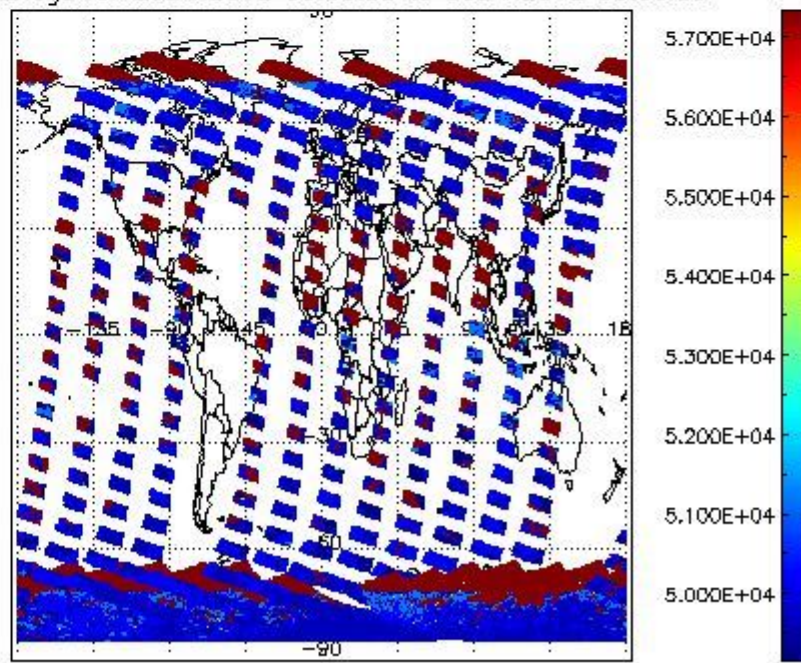
cL_top_height for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



cLopt_depth for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



cloud_flags for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



2.2.2 Nadir

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

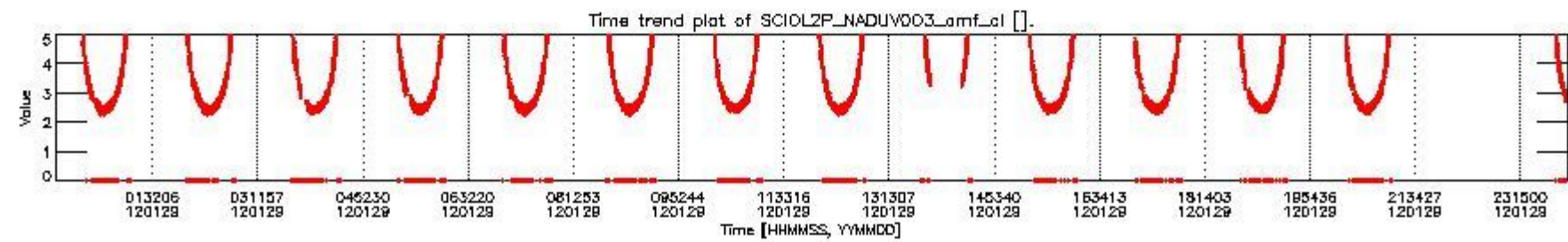
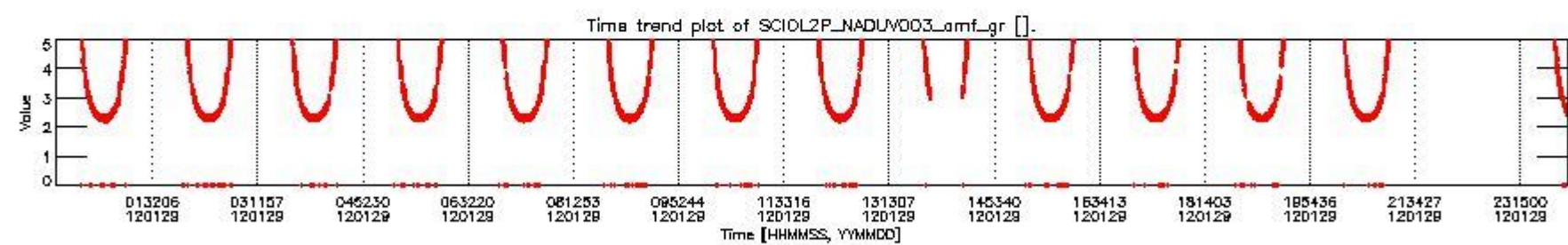
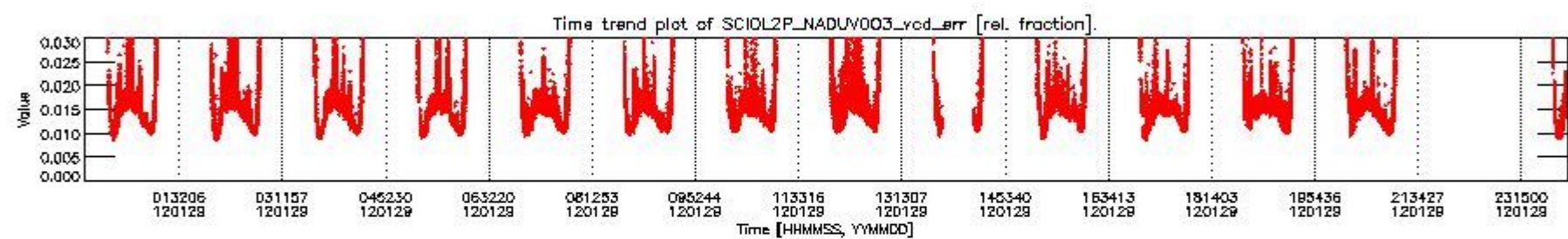
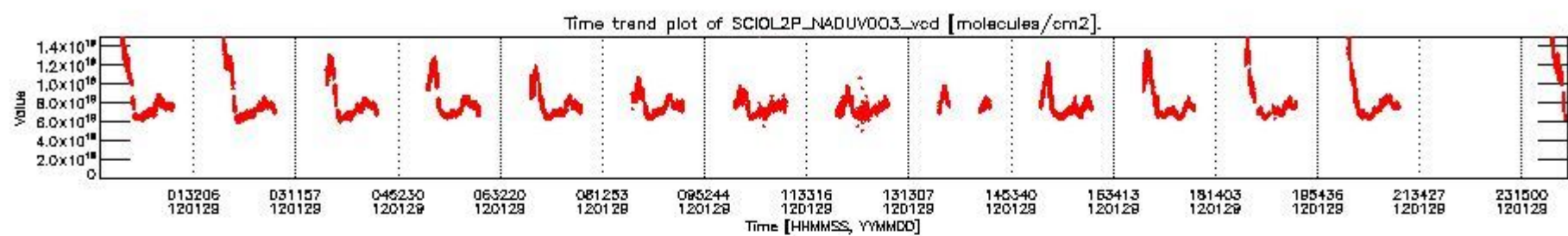
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

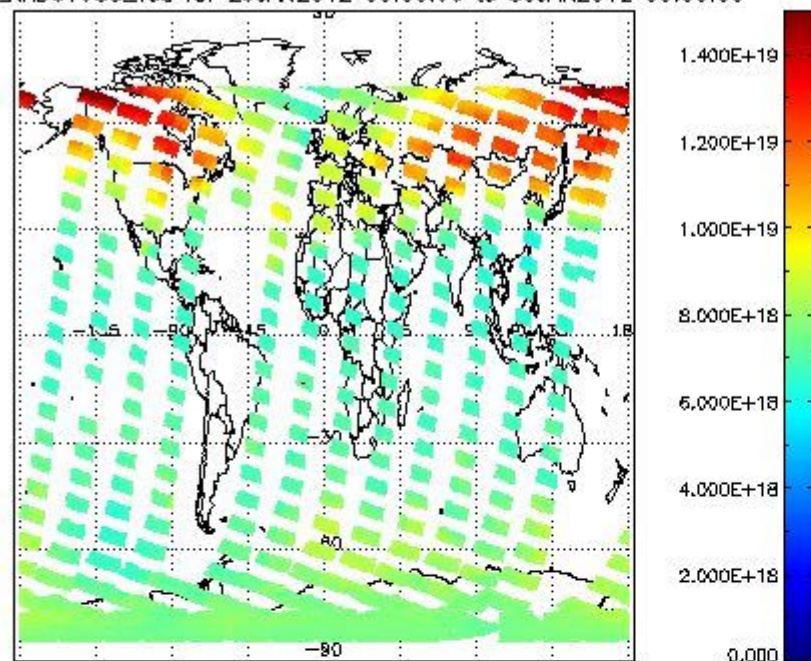
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

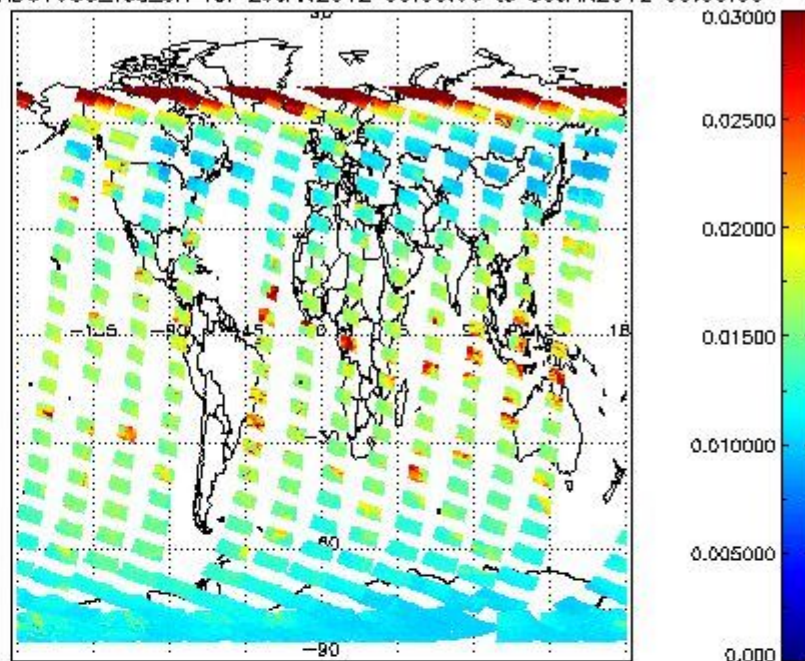
2.2.2.1 O3 (UV0)



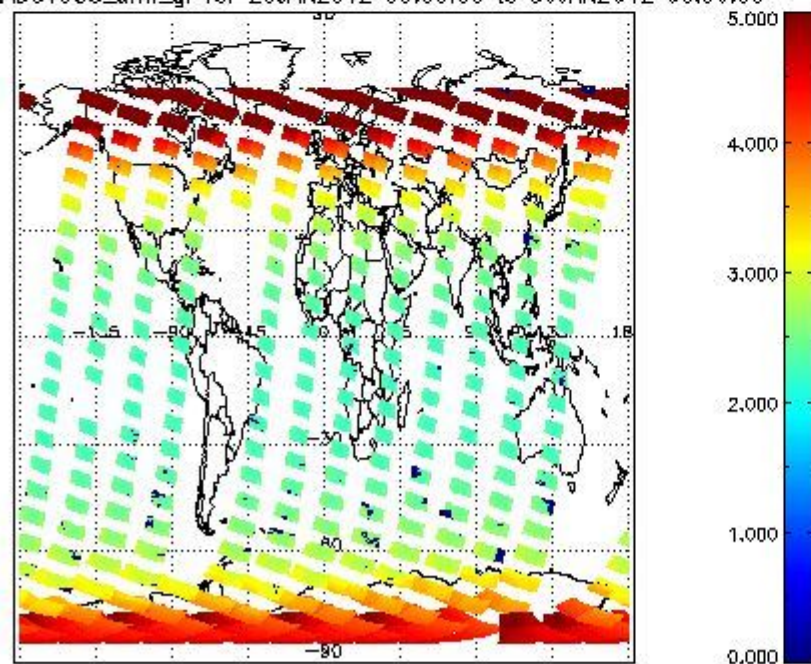
SCIOL2P_NADUV003_vcd for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



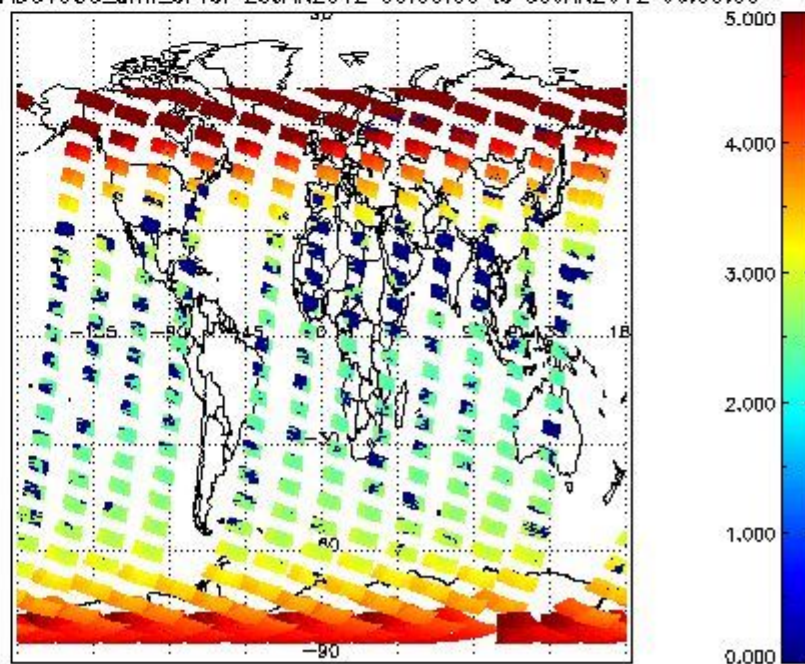
SCIOL2P_NADUV003_vcd_err for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



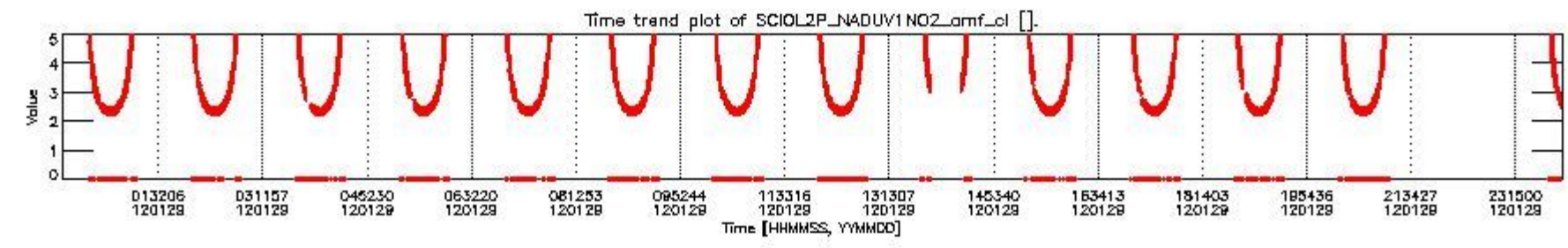
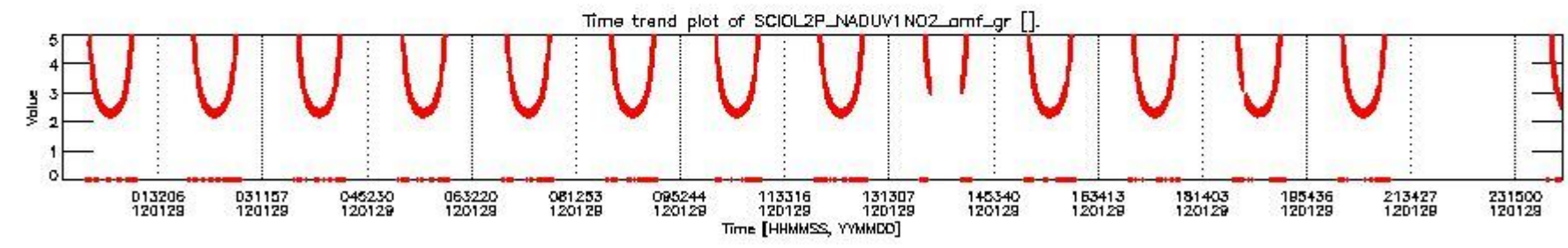
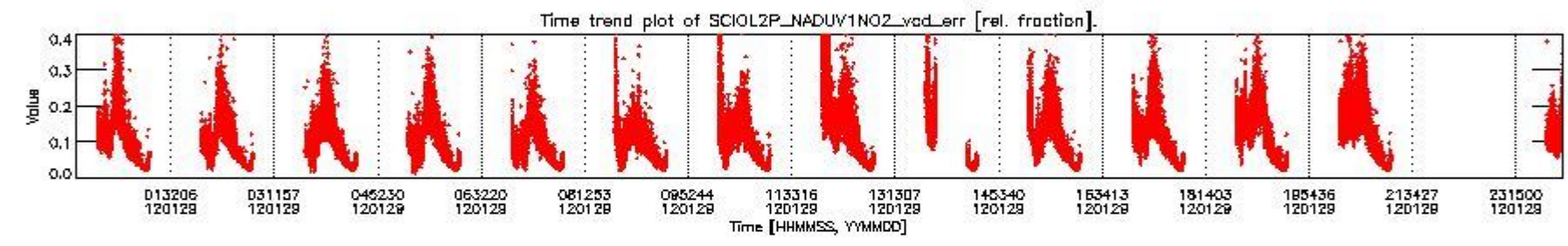
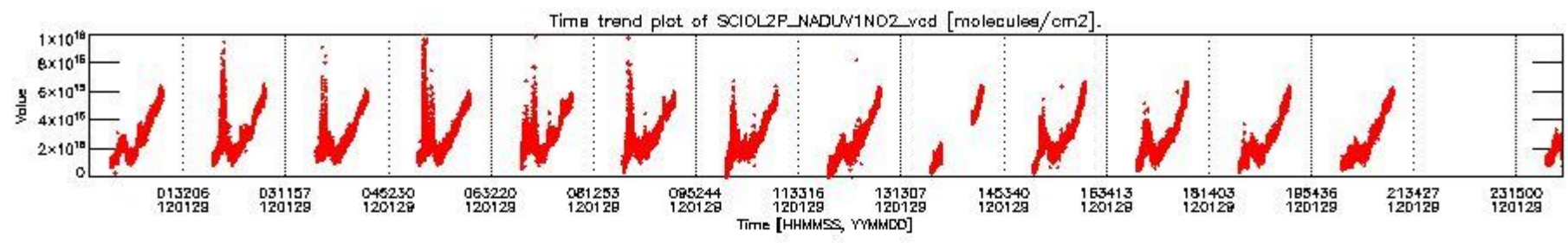
SCIOL2P_NADUV003_amf_gr for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



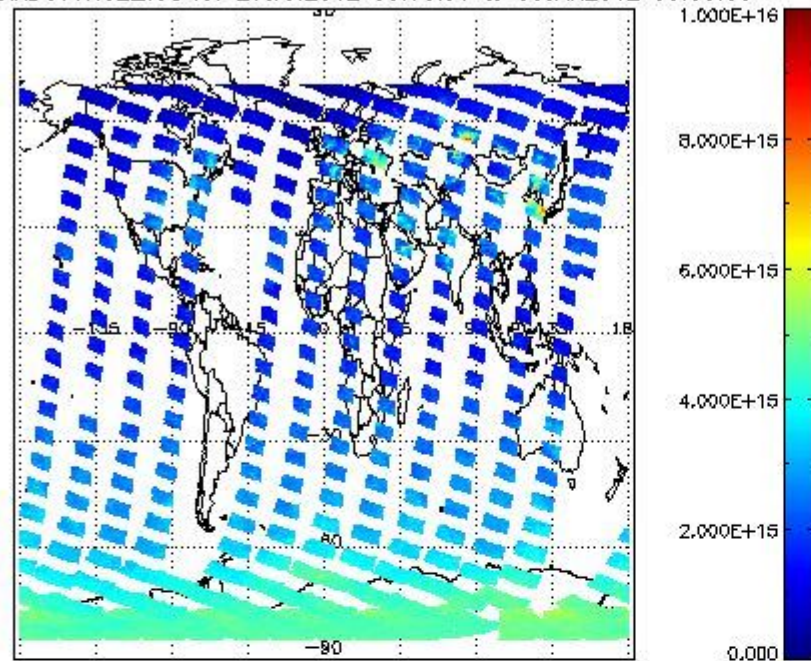
SCIOL2P_NADUV003_amf_cl for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



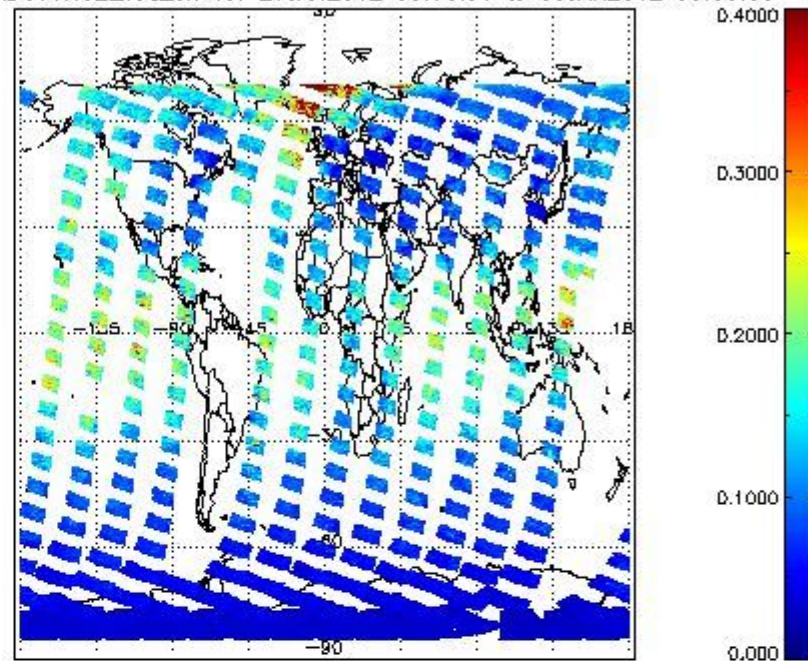
2.2.2.2 NO2 (UV1)



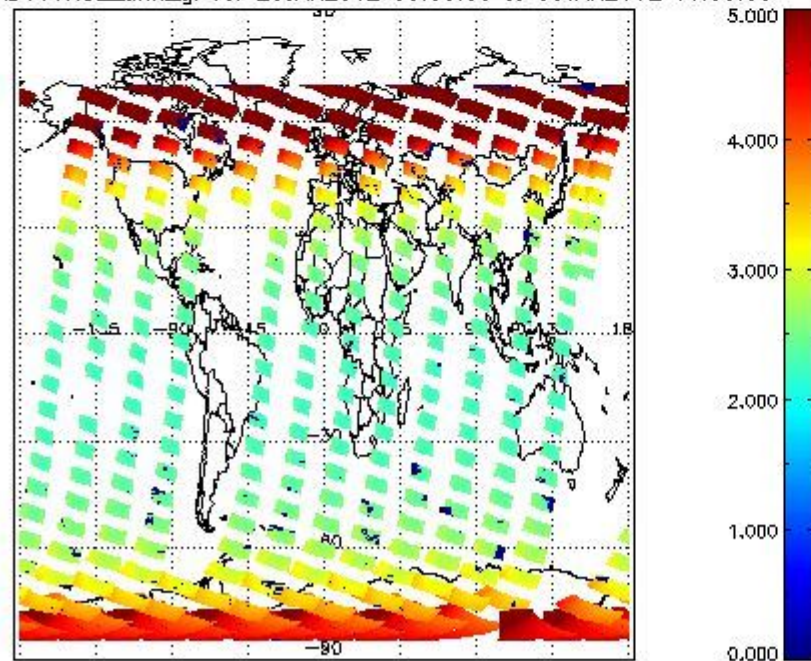
SCIOL2P_NADUV1NO2_vcd for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



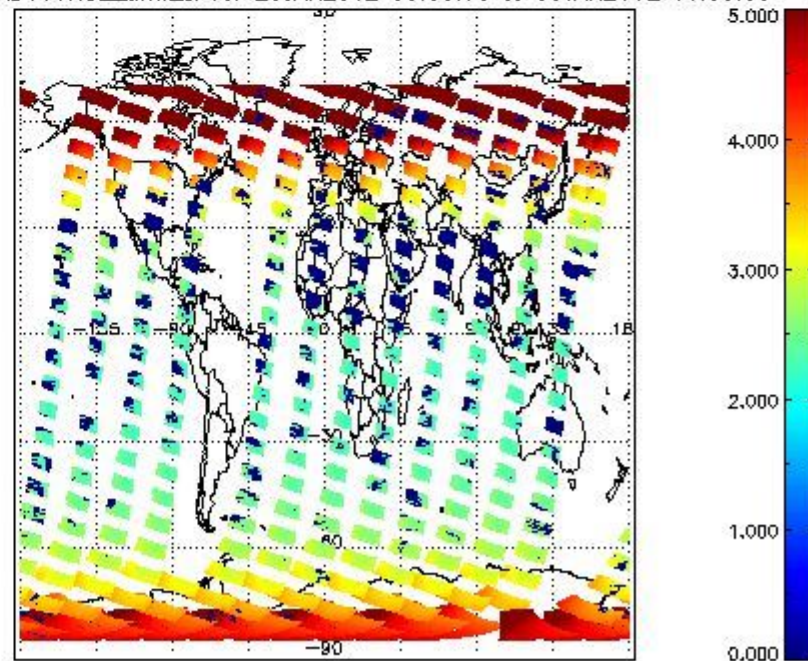
SCIOL2P_NADUV1NO2_vcd_err for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



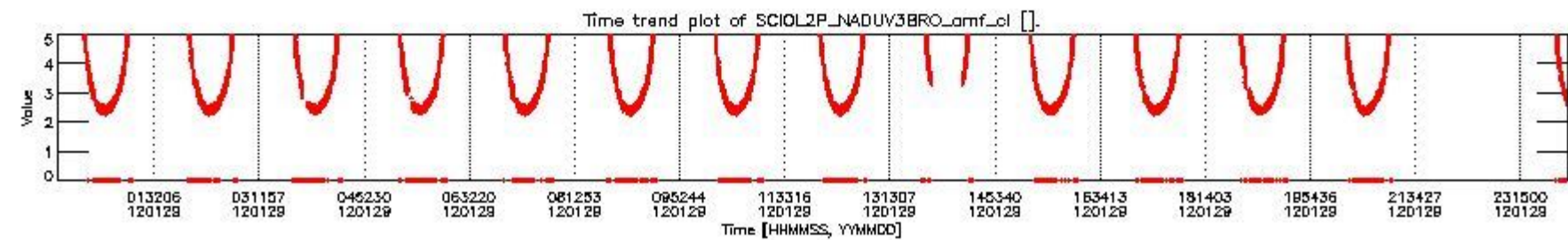
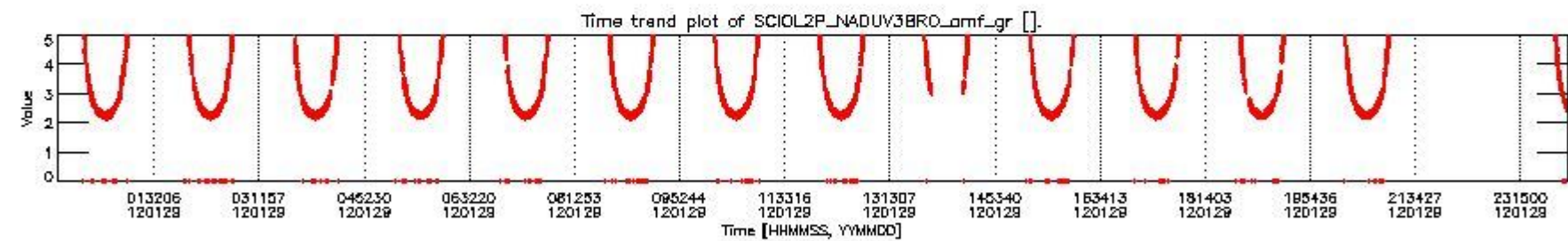
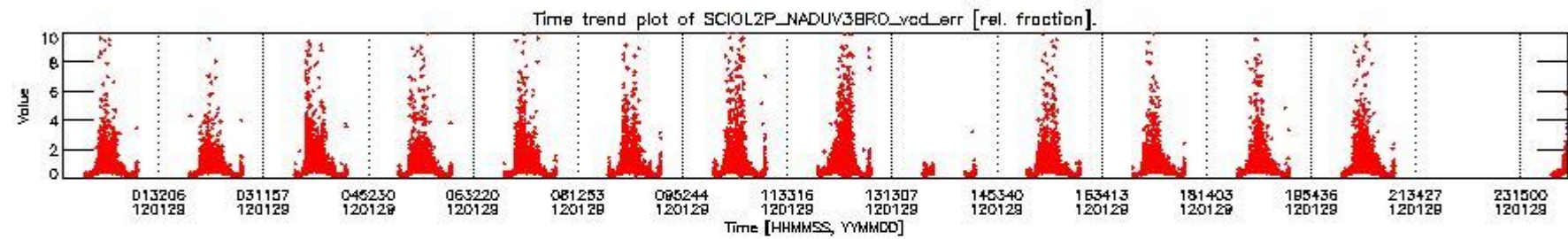
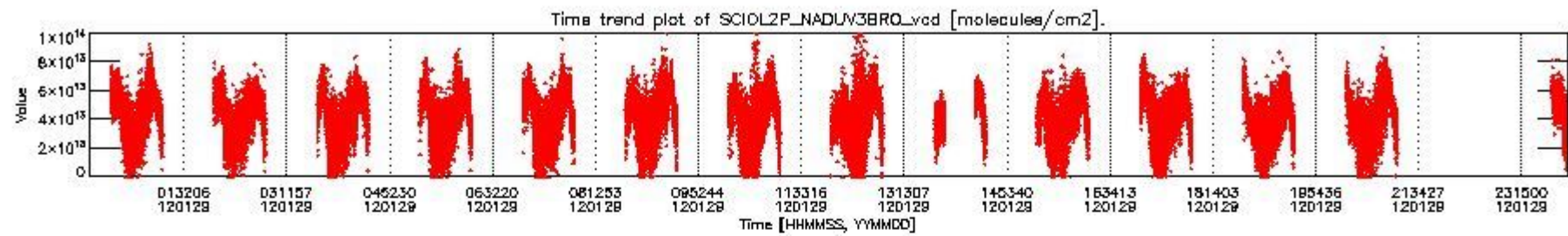
SCIOL2P_NADUV1NO2_amf_gr for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



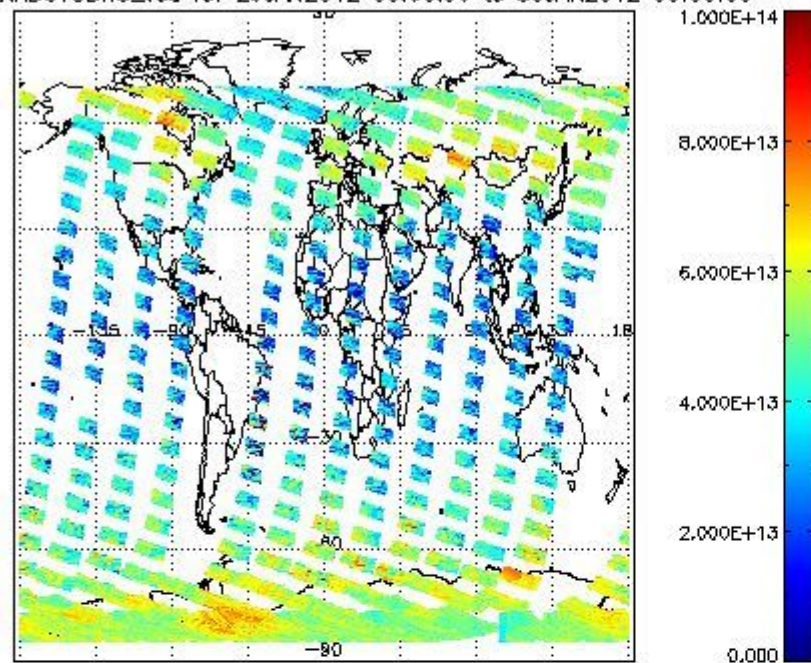
SCIOL2P_NADUV1NO2_amf_cl for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



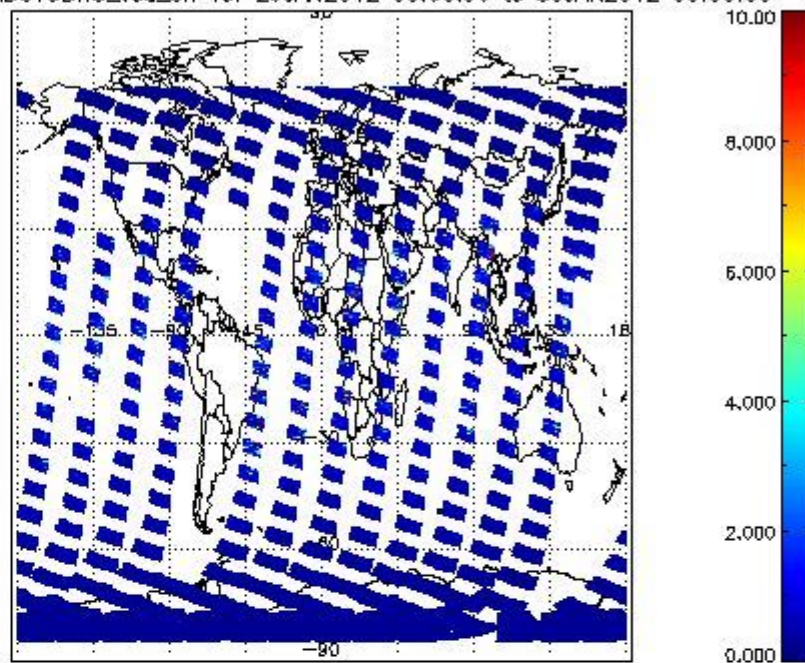
2.2.2.3 BrO (UV3)



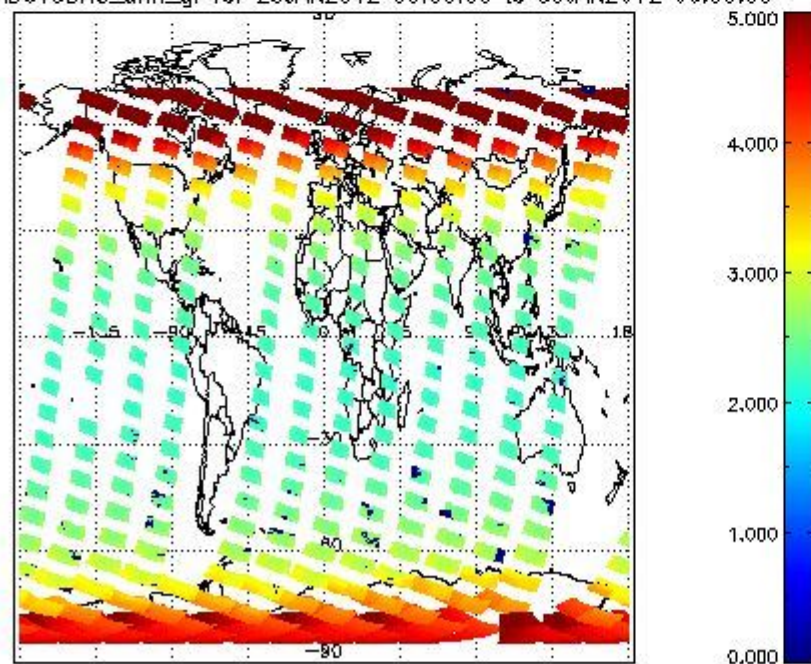
SCIOL2P_NADUV3BRO_vcd for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



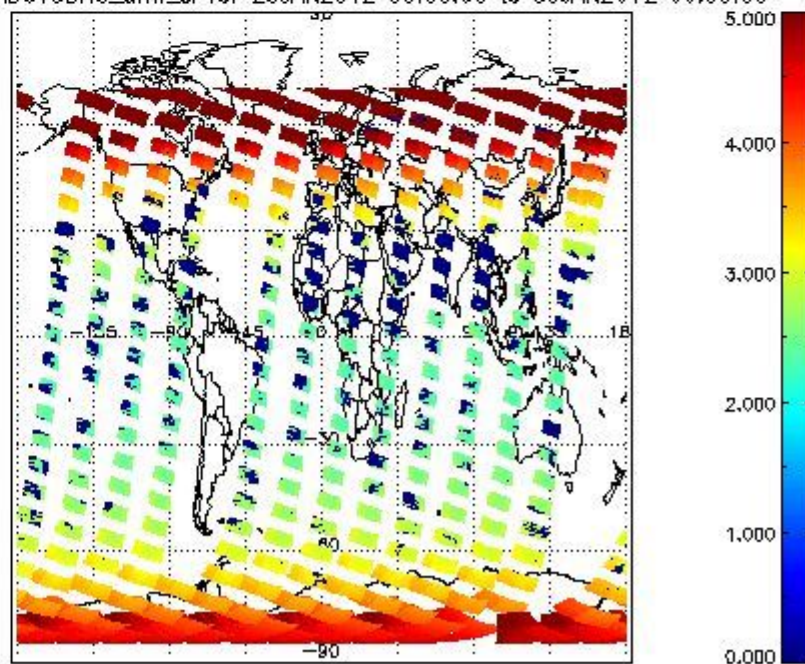
SCIOL2P_NADUV3BRO_vcd_err for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



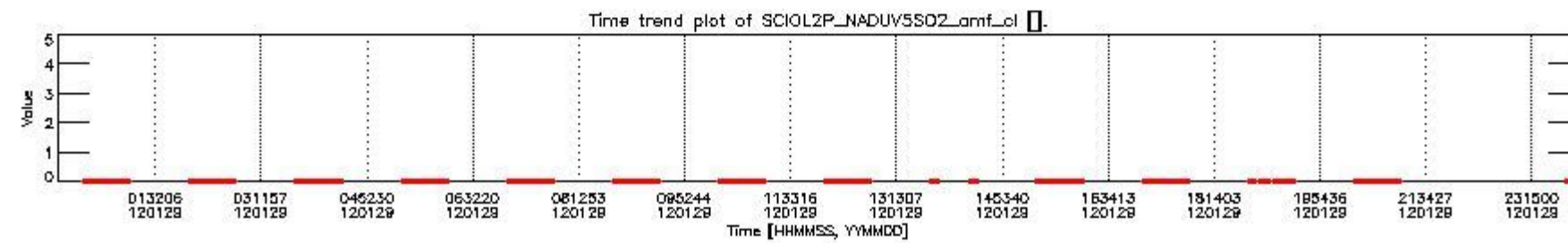
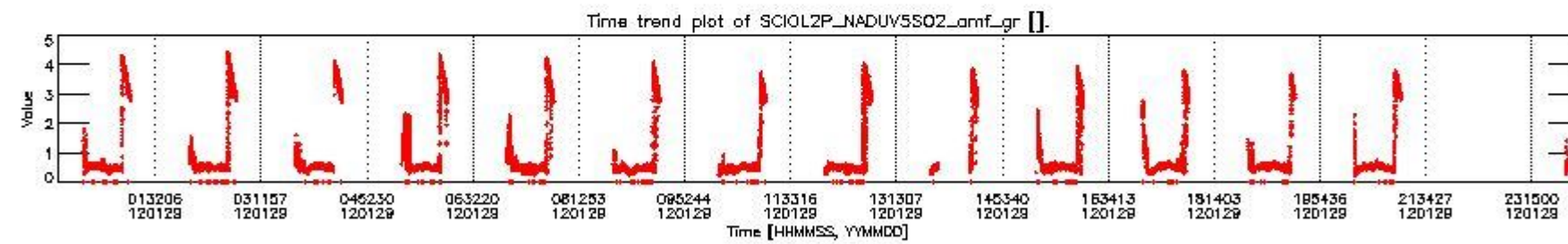
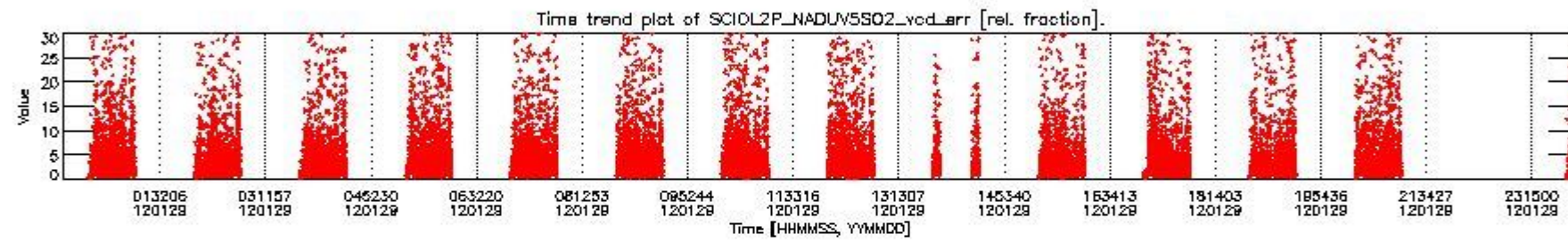
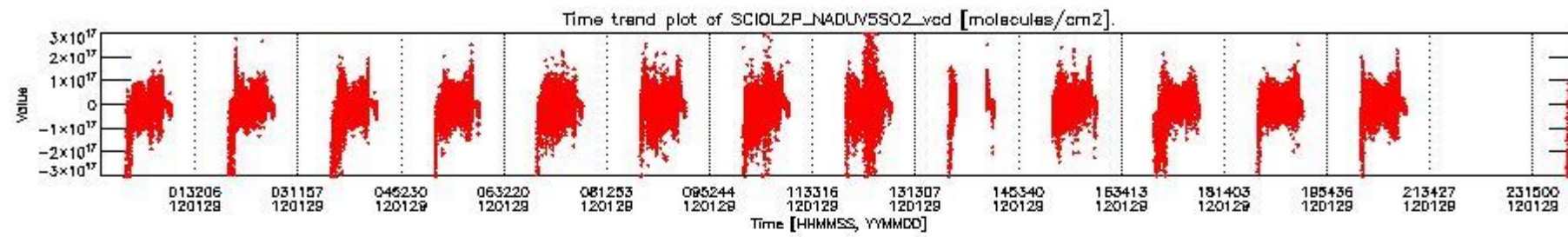
SCIOL2P_NADUV3BRO_amf_gr for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



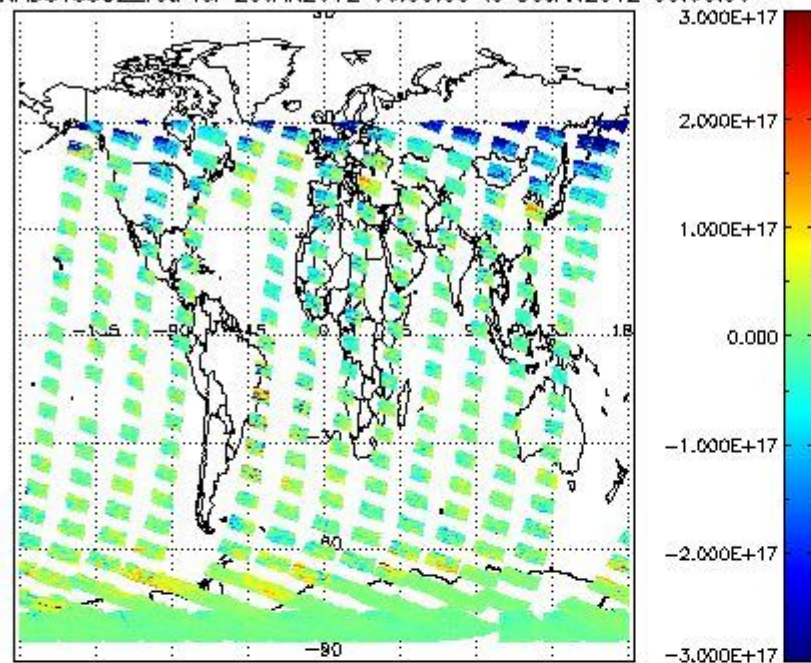
SCIOL2P_NADUV3BRO_amf_cl for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



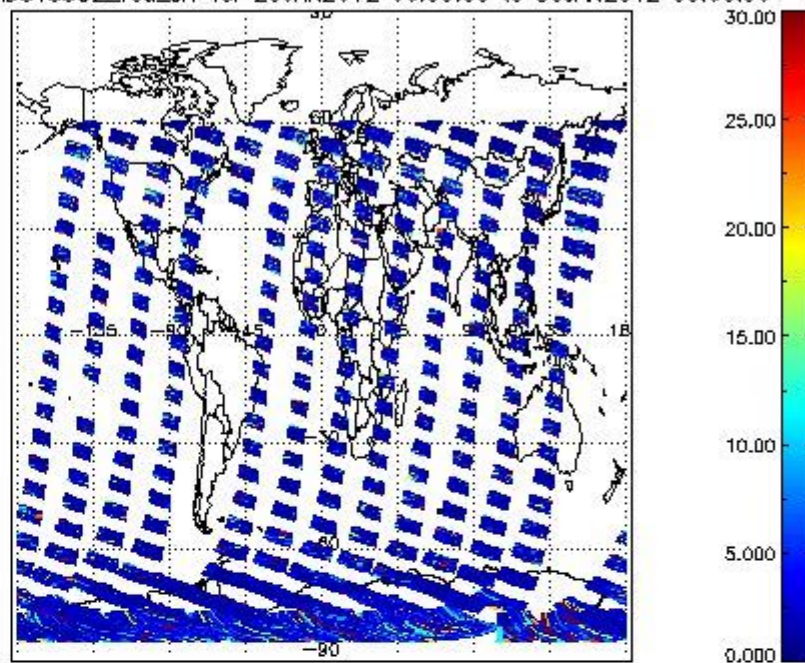
2.2.2.4 SO2 (UV5)



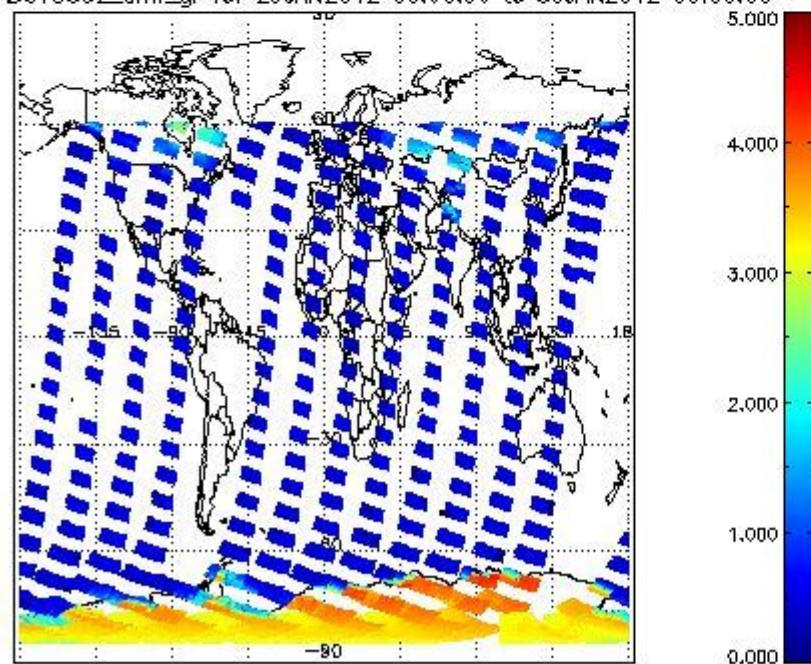
SCIOL2P_NADUV5SO2_vcd for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



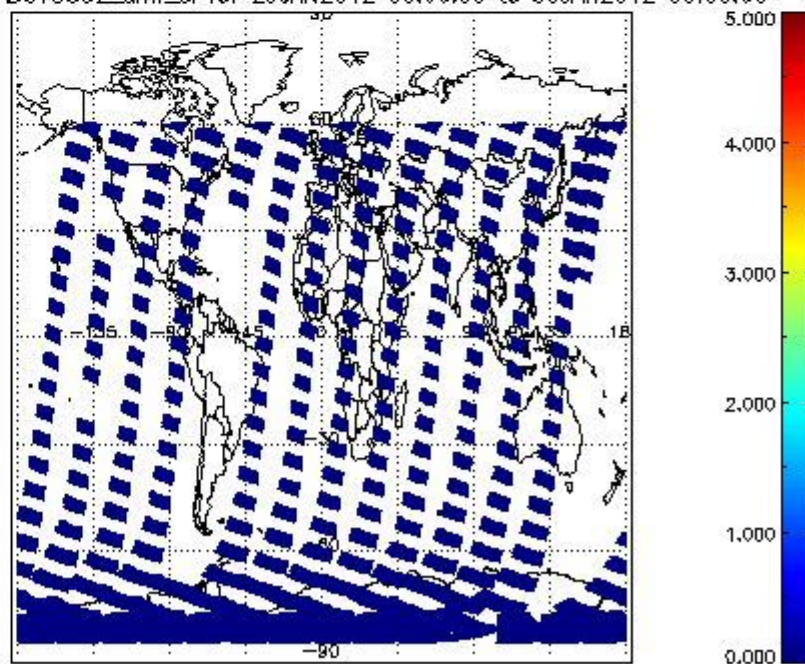
SCIOL2P_NADUV5SO2_vcd_err for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



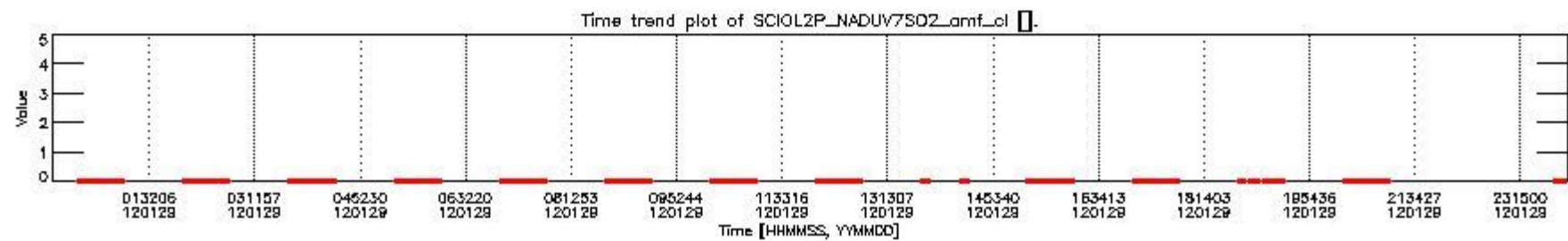
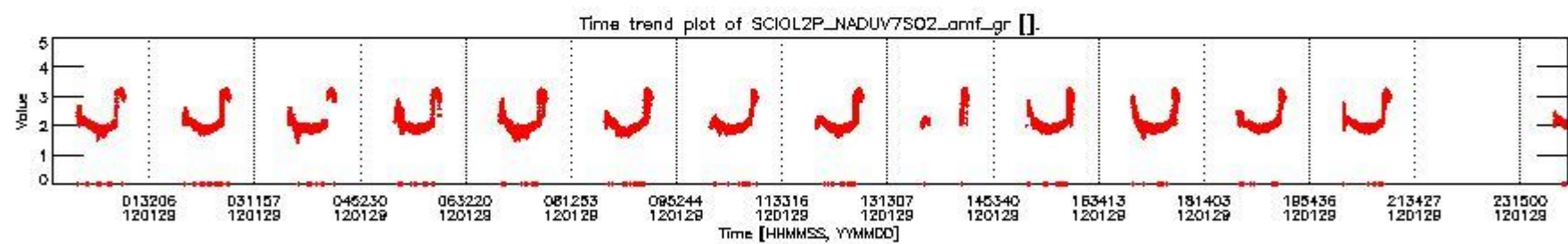
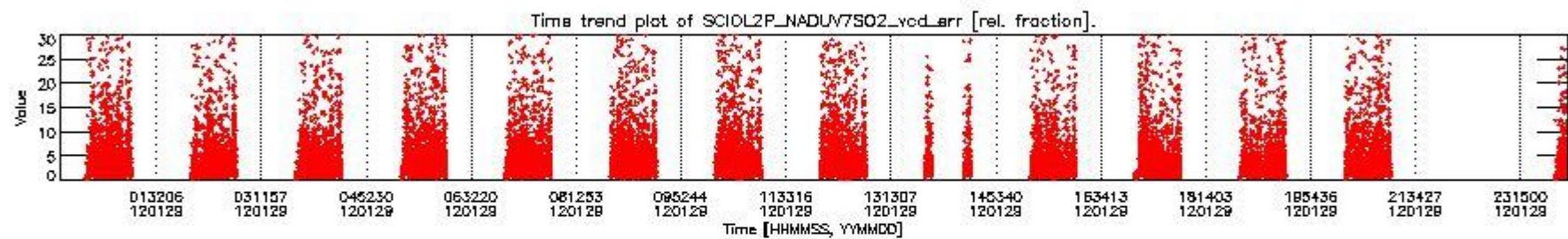
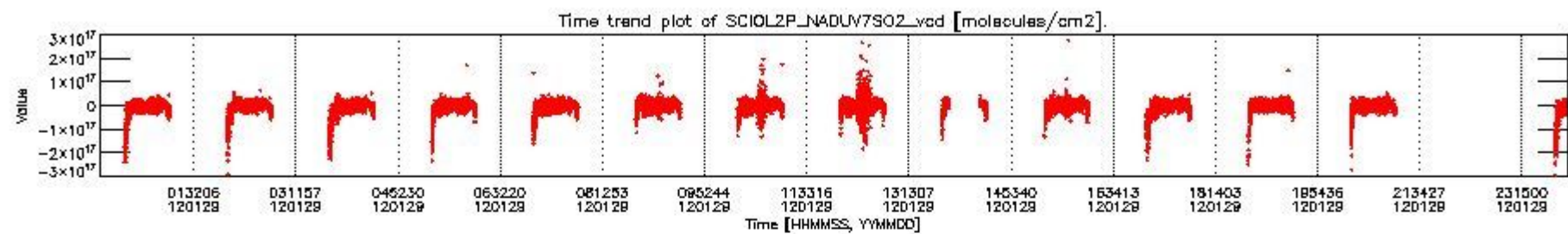
SCIOL2P_NADUV5SO2_amf_gr for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



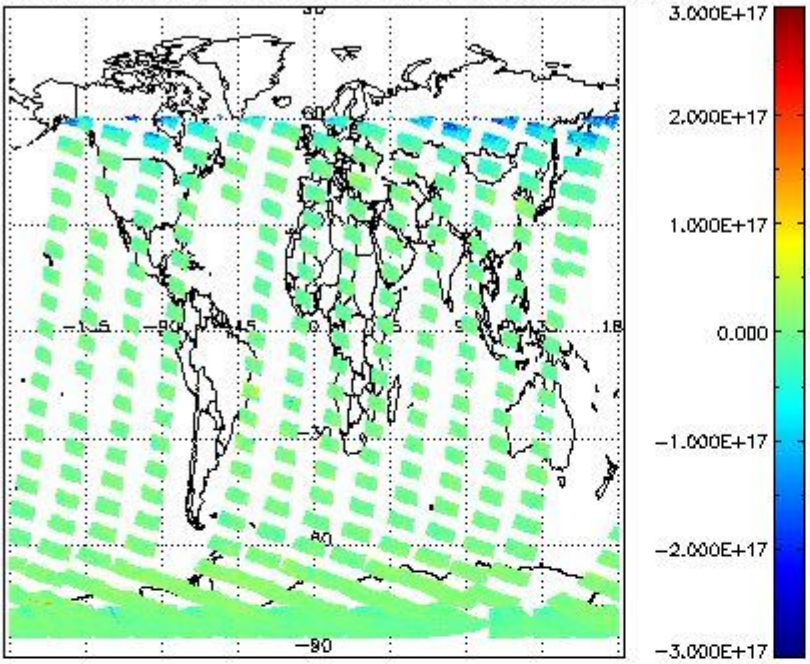
SCIOL2P_NADUV5SO2_amf_cl for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



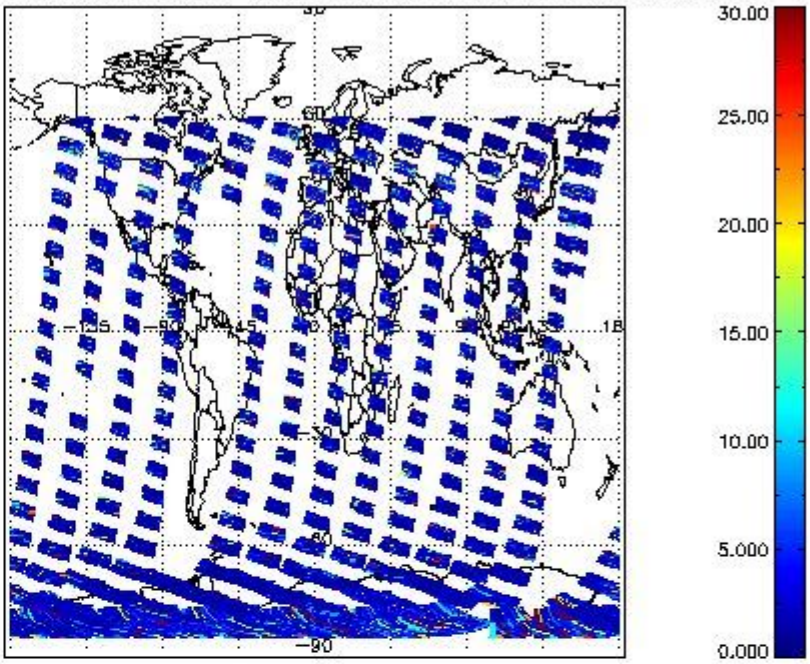
2.2.2.5 SO2 (UV7)



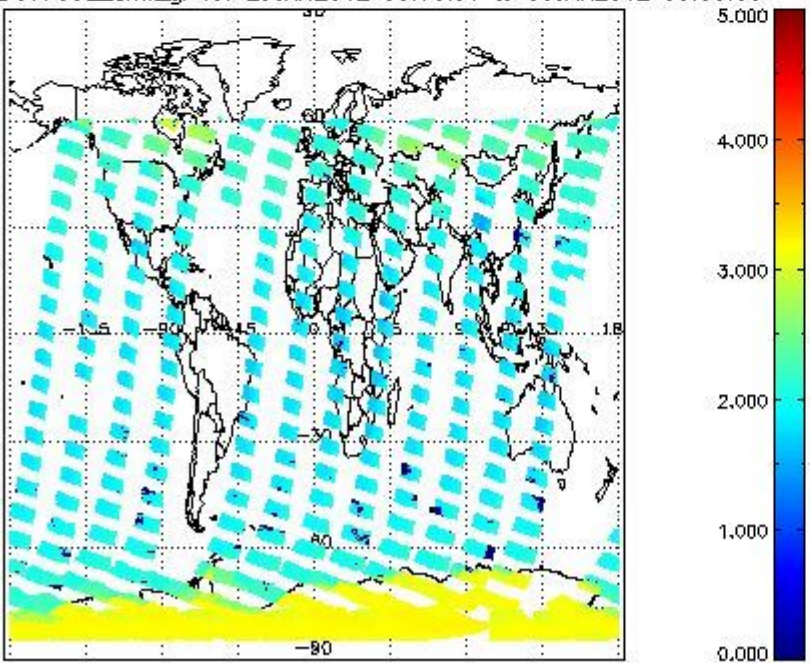
SCIOL2P_NADUV7S02_vcd for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



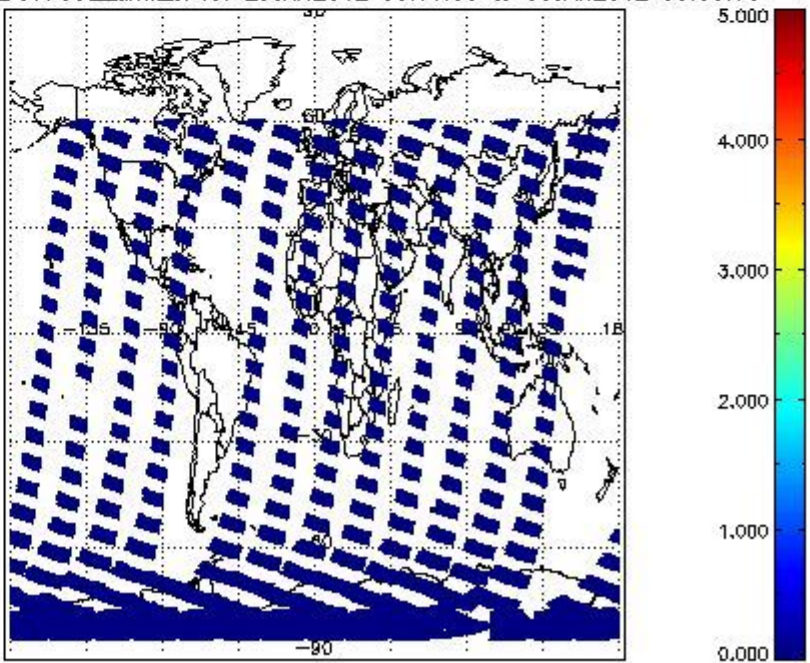
SCIOL2P_NADUV7S02_vcd_err for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



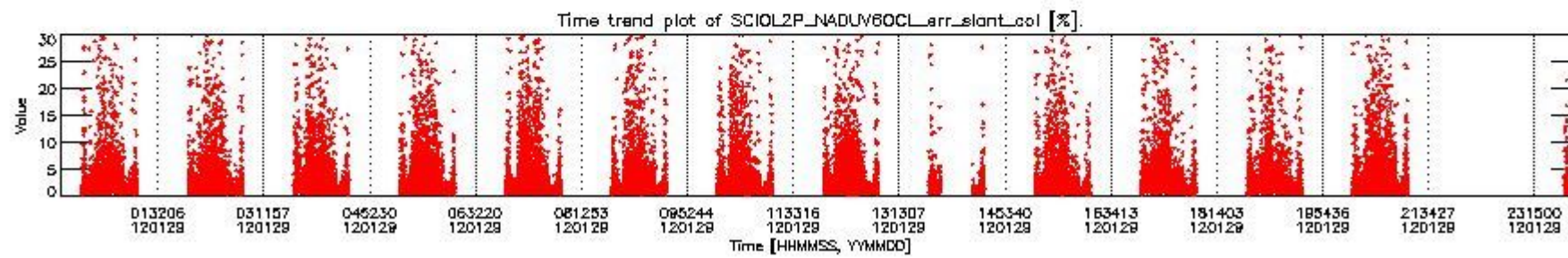
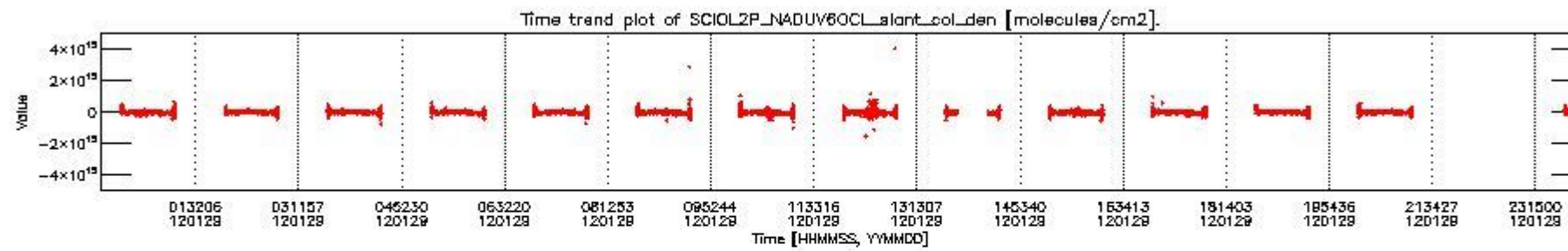
SCIOL2P_NADUV7S02_amf_gr for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



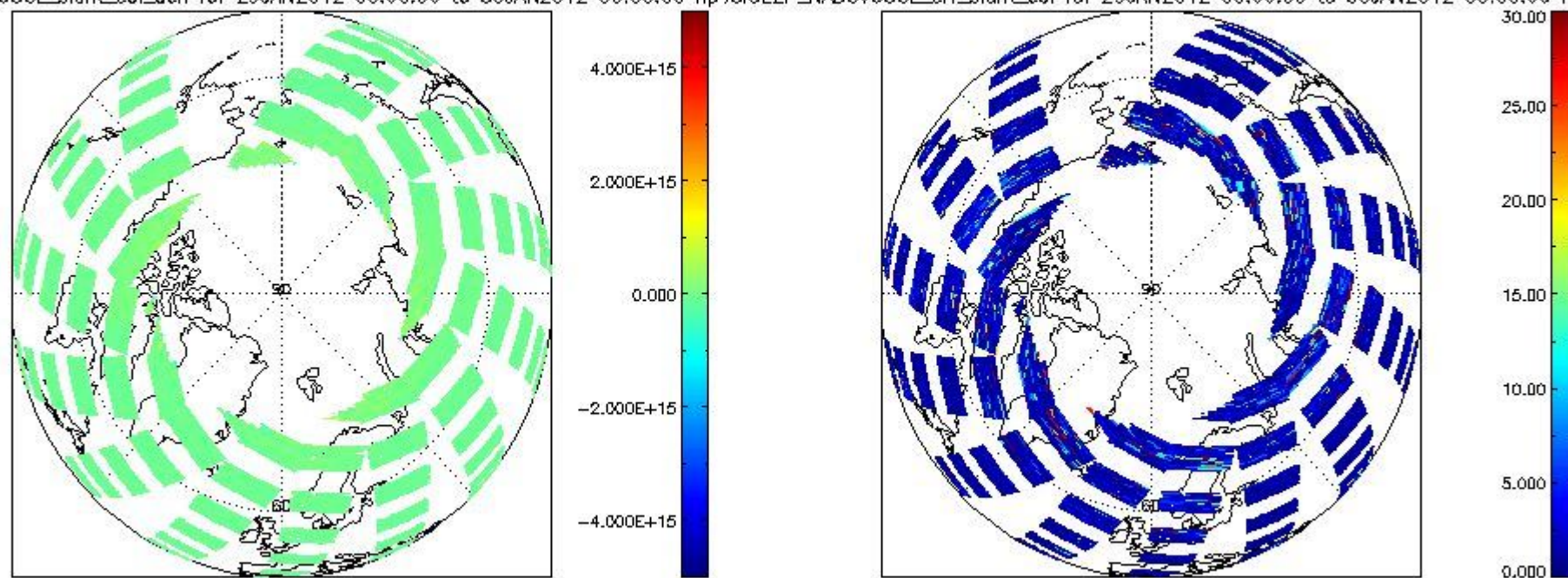
SCIOL2P_NADUV7S02_amf_cl for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



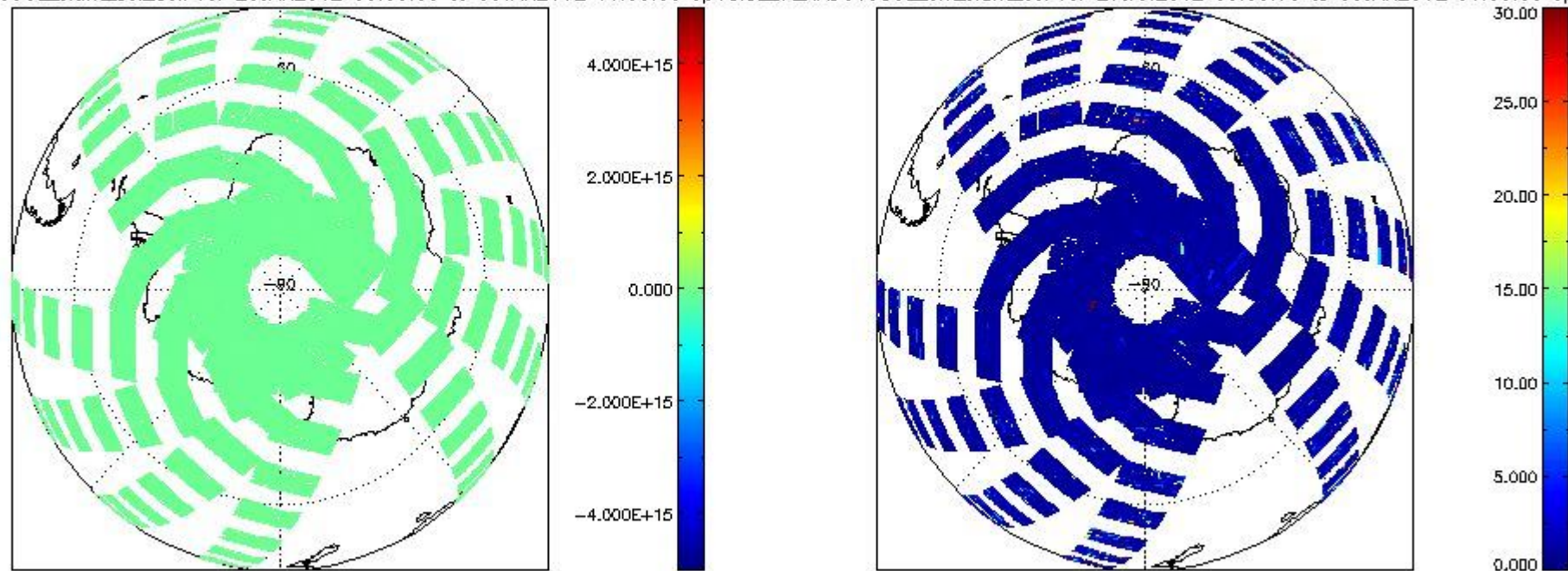
2.2.2.6 OCIO (UV6)



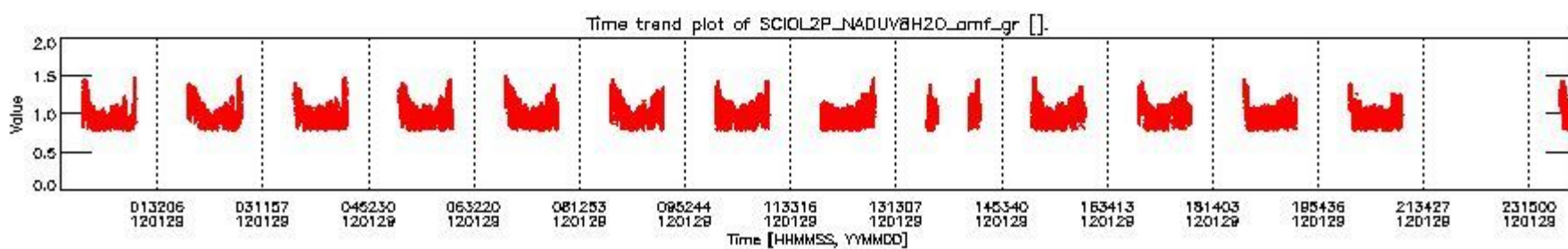
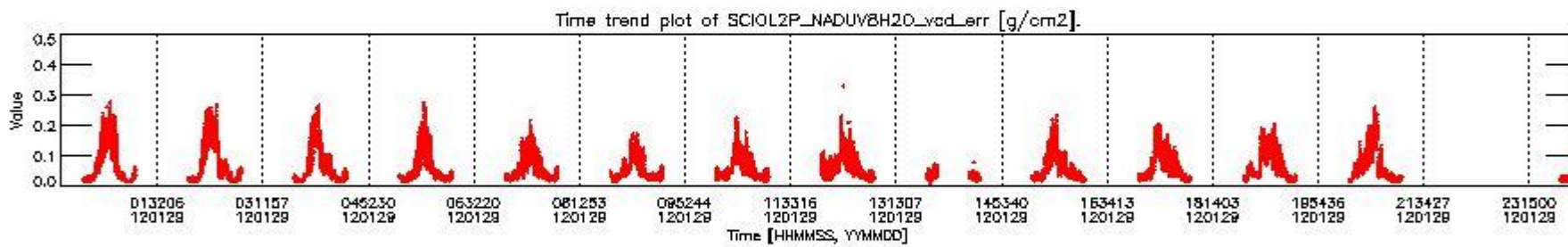
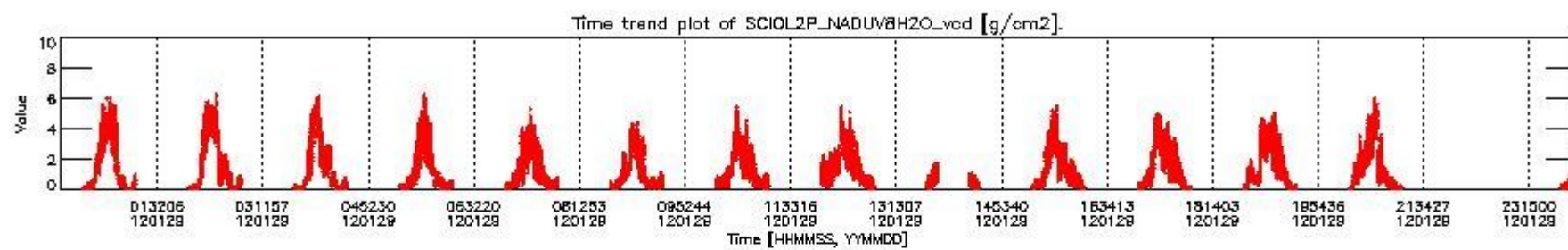
SCIOI2P_NADUV60CL_slant_col_den for 29JAN2012 00:00:00 to 30JAN2012 00:00:00 np; SCIOI2P_NADUV60CL_err_slant_col for 29JAN2012 00:00:00 to 30JAN2012 00:00:00 np



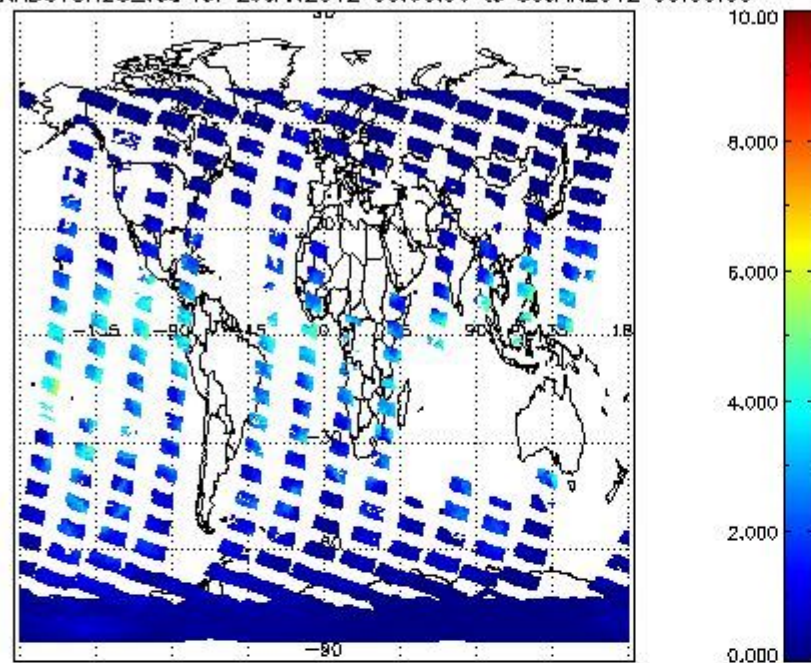
SCIOL2P_NADUV6OCL_slant_col_den for 29JAN2012 00:00:00 to 30JAN2012 00:00:00 sp SCIOL2P_NADUV6OCL_err_slant_col for 29JAN2012 00:00:00 to 30JAN2012 00:00:00 sp



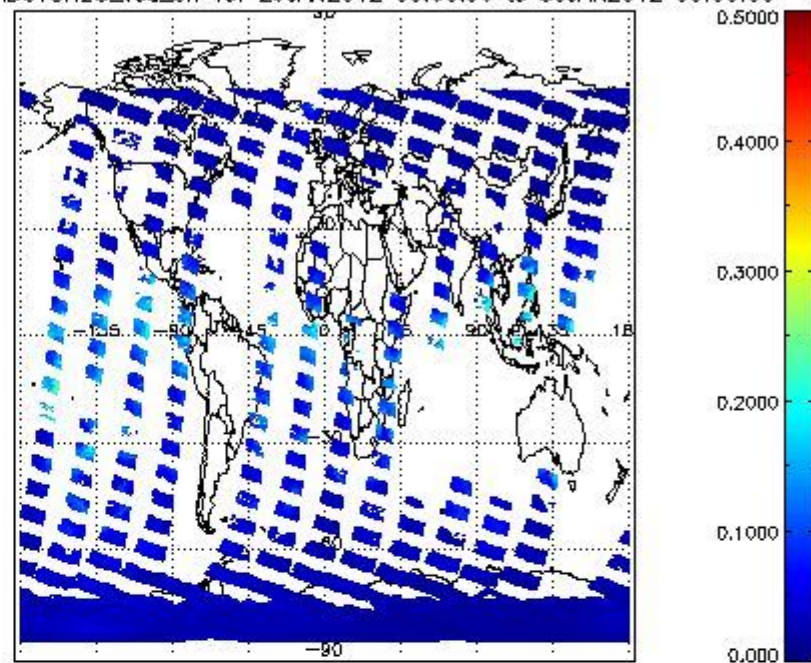
2.2.2.7 H2O (UV8)



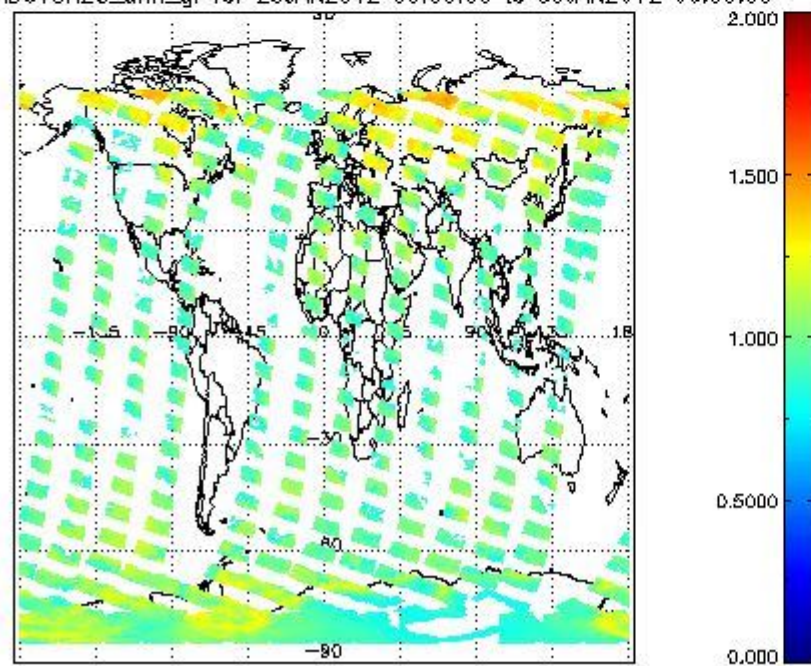
SCIOL2P_NADUV8H20_vcd for 29JAN2012 00:00:00 to 30JAN2012 00:00:00

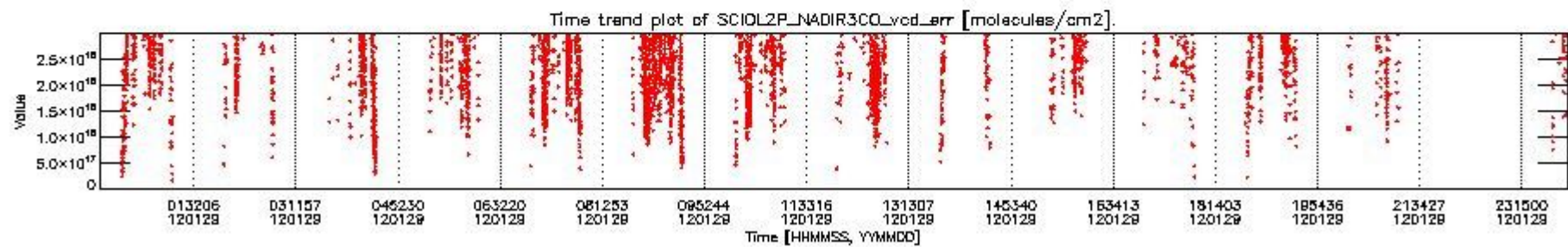
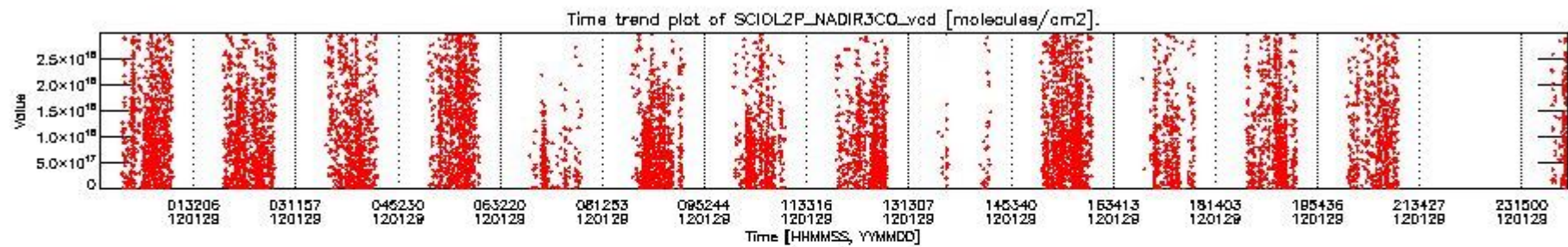


SCIOL2P_NADUV8H20_vcd_err for 29JAN2012 00:00:00 to 30JAN2012 00:00:00

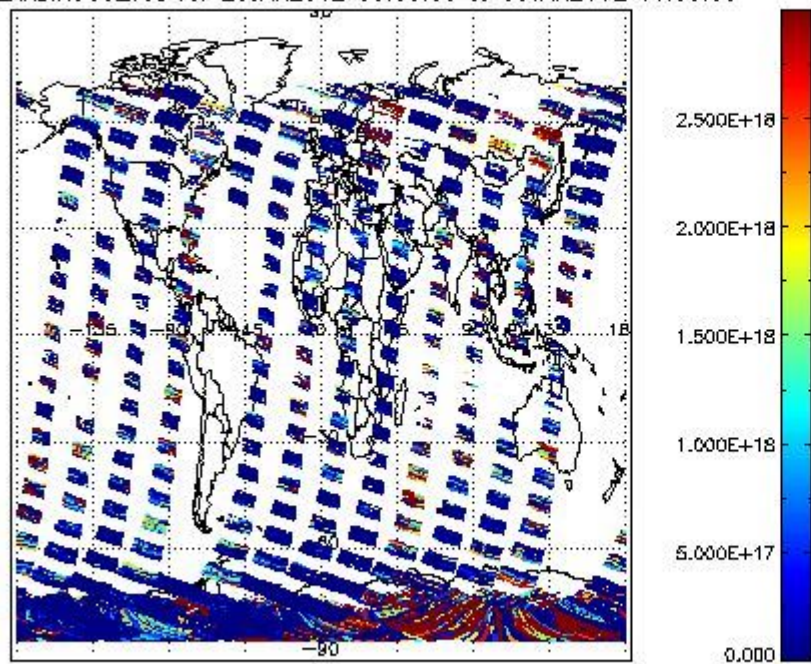


SCIOL2P_NADUV8H20_amf_gr for 29JAN2012 00:00:00 to 30JAN2012 00:00:00

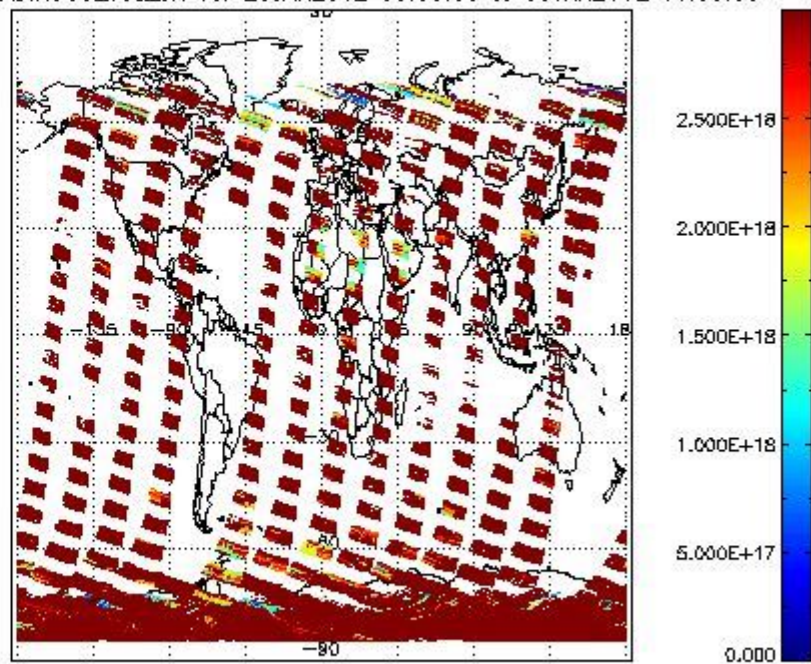




SCIDL2P_NADIR3CO_vcd for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



SCIDL2P_NADIR3CO_vcd_err for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



2.2.3 Limb

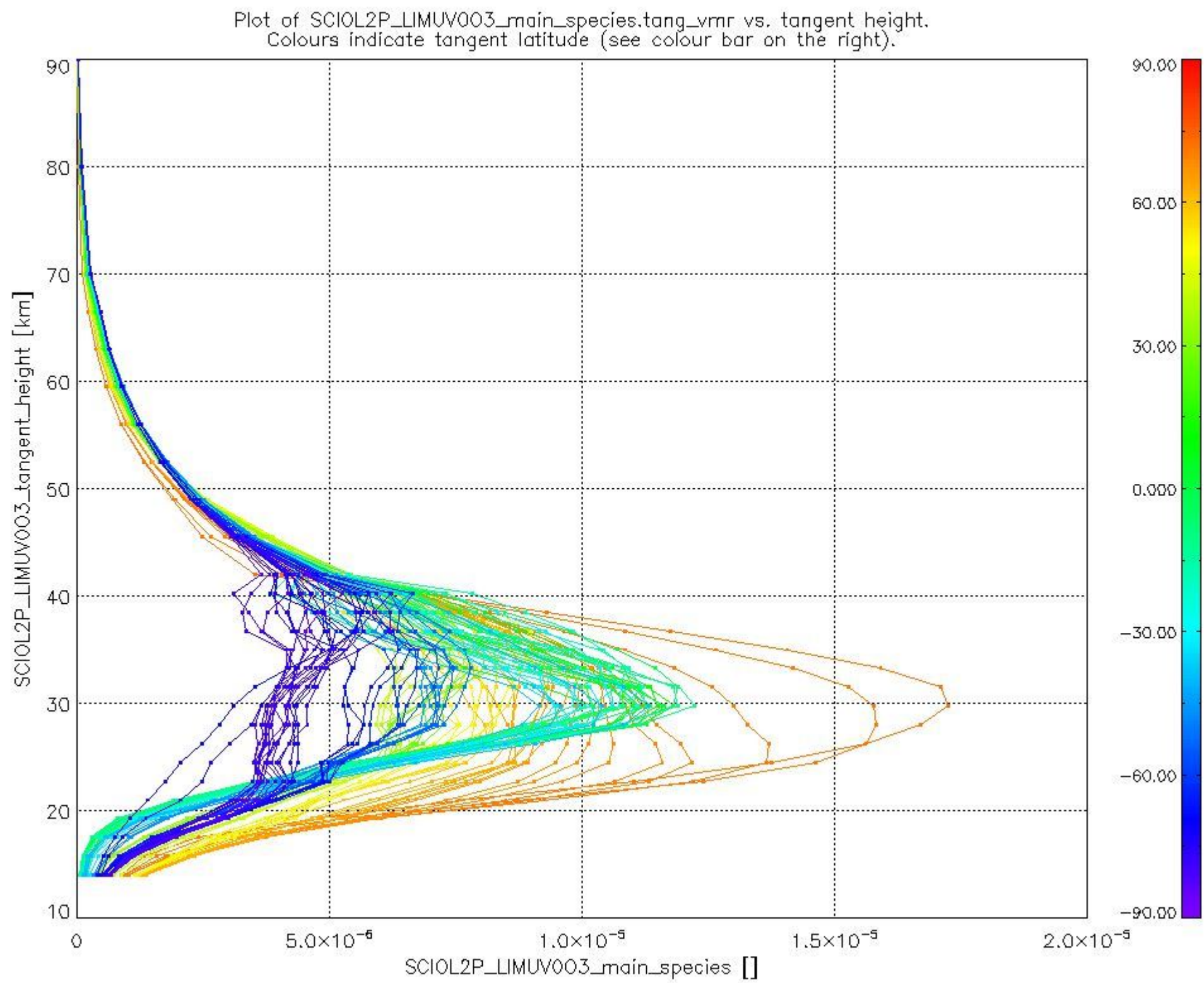
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

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

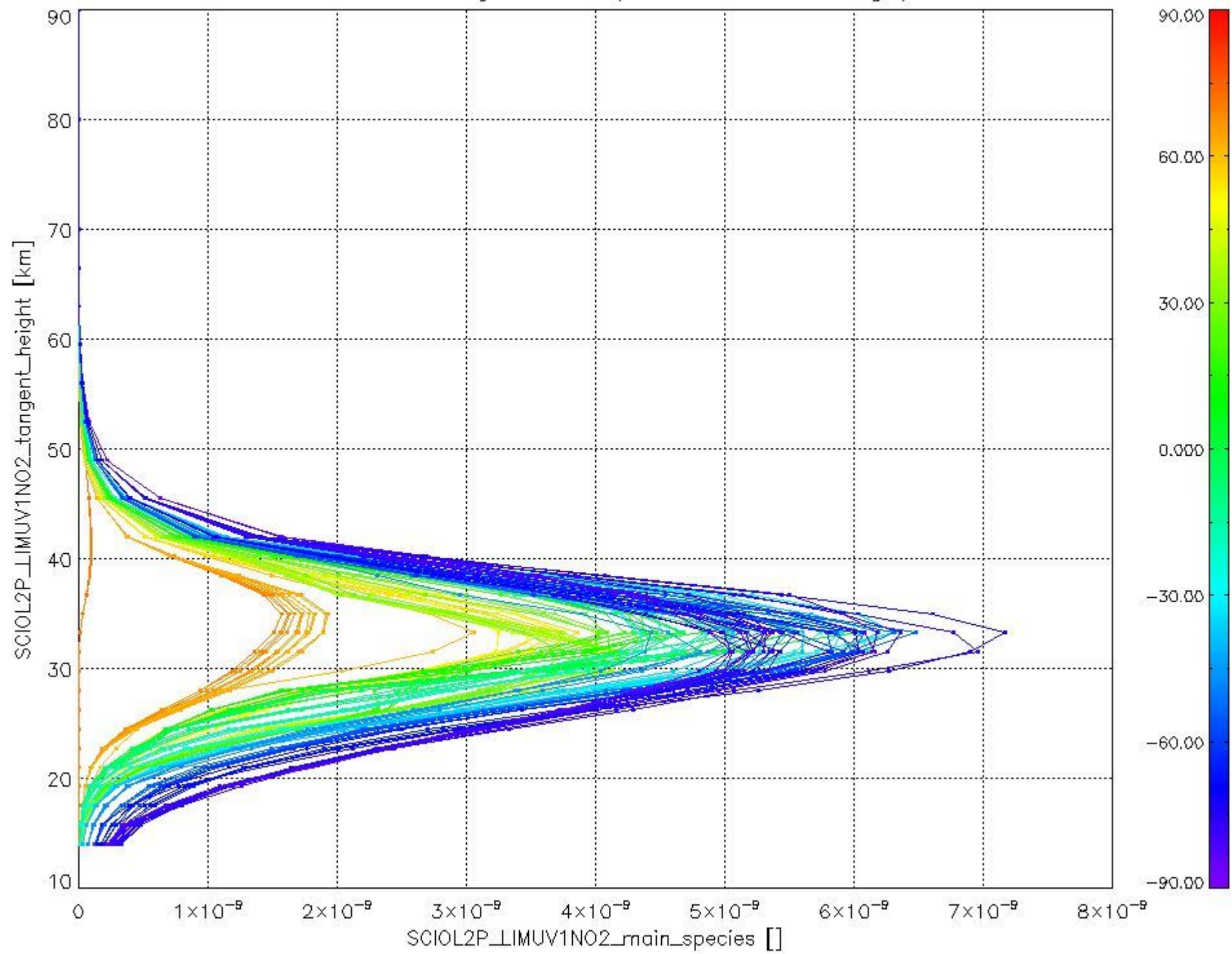
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



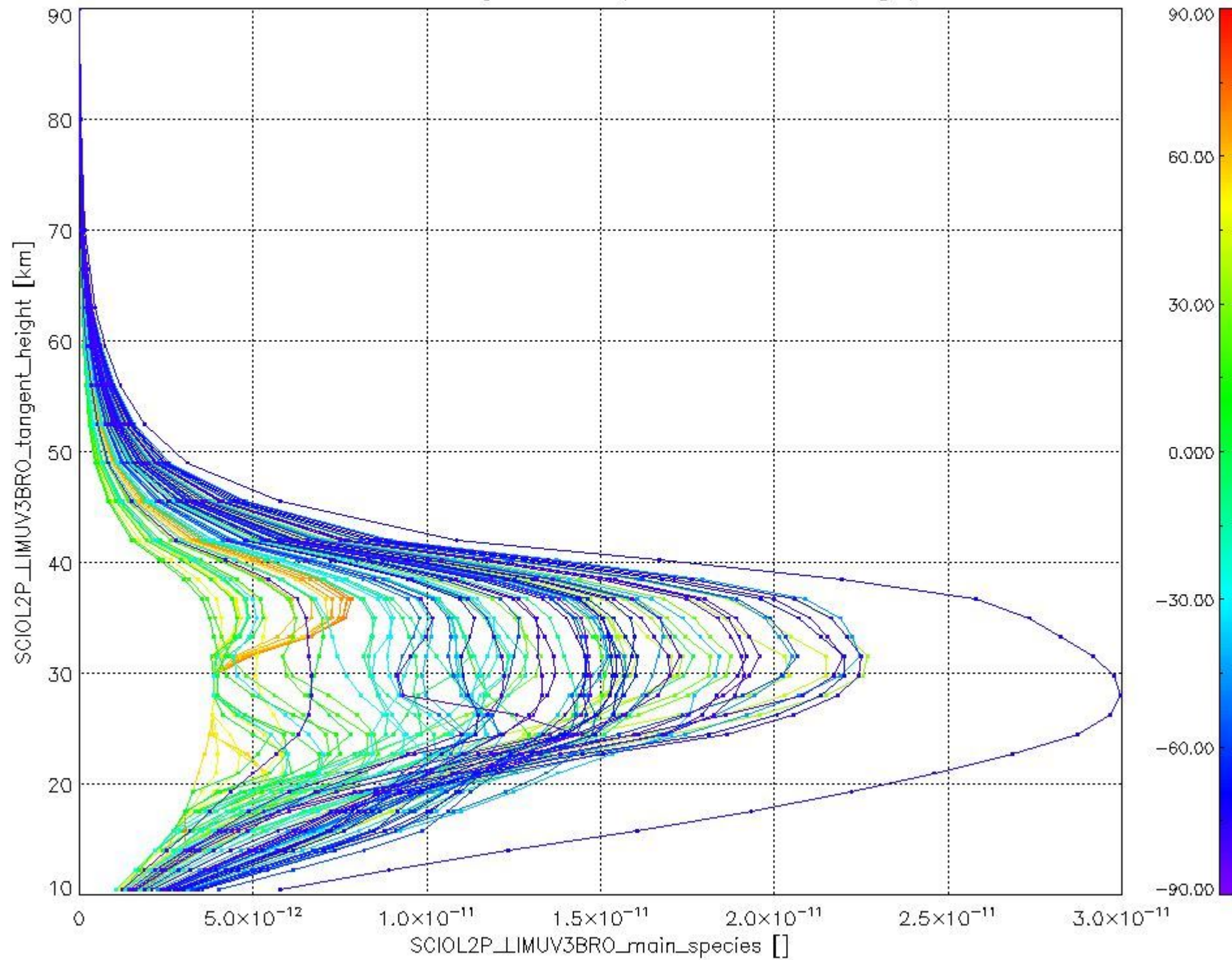
2.2.3.2 NO2 (UV1)

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)

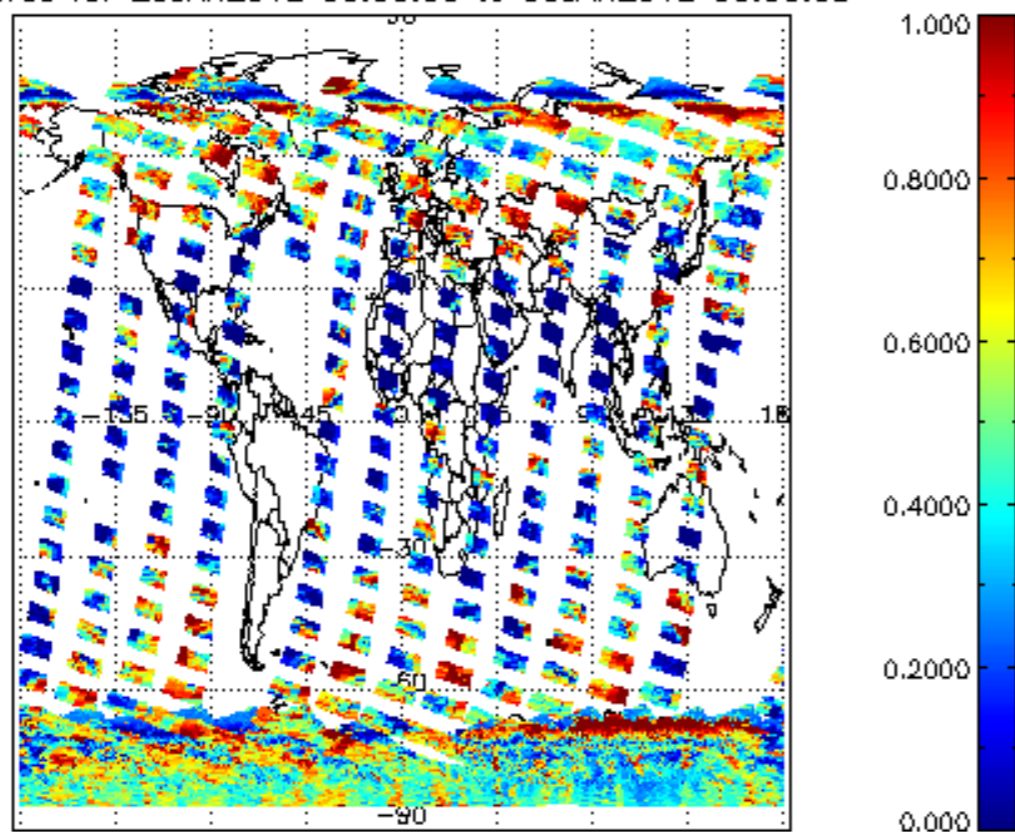
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



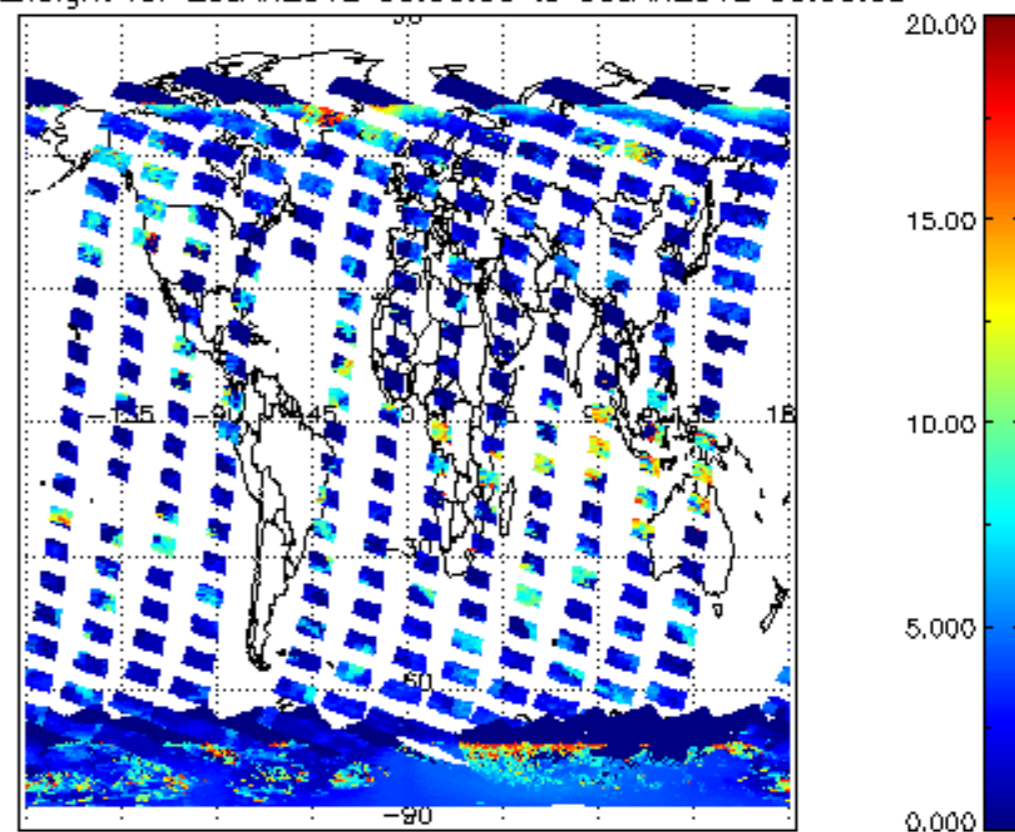
2.3 ADF monitoring

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_AXVIEC20120131_132847_20120128_183310_20120130_183310
3	SCI_MF1_AXVIEC20120131_132953_20120129_193638_20120131_193638

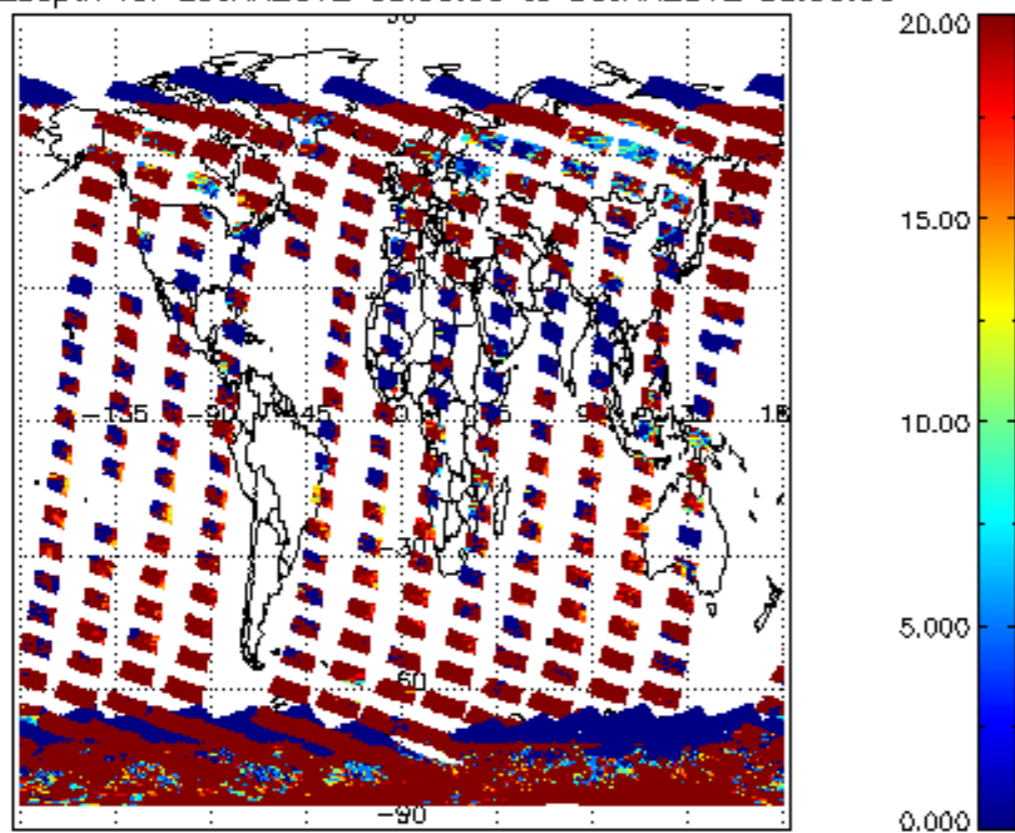
cL_frac for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



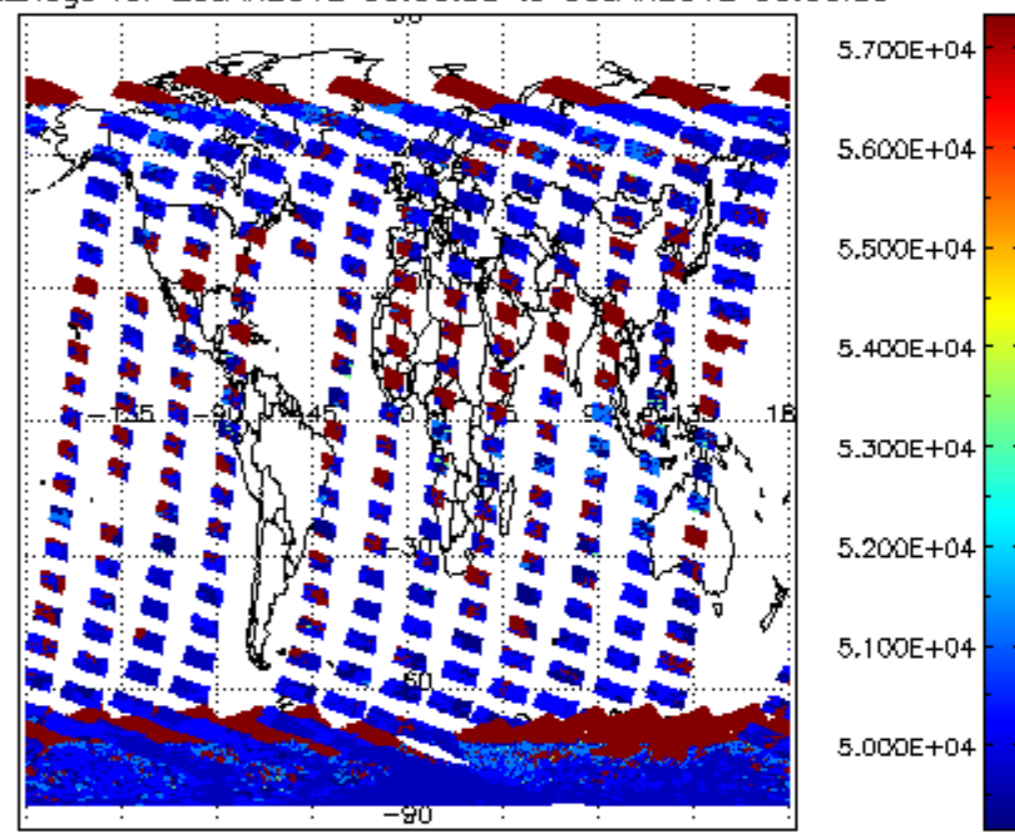
cL_top_height for 29JAN2012 00:00:00 to 30JAN2012 00:00:00

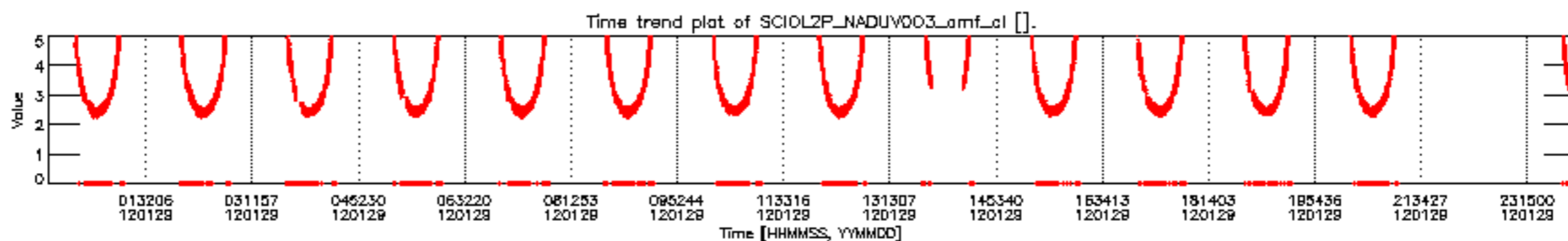
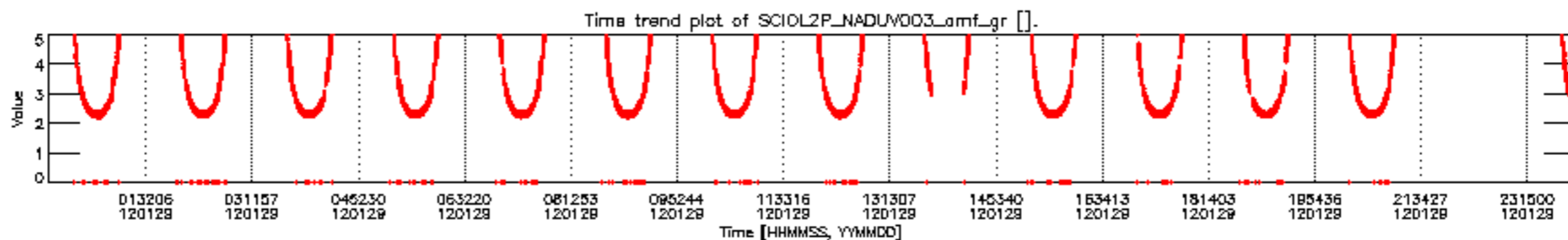
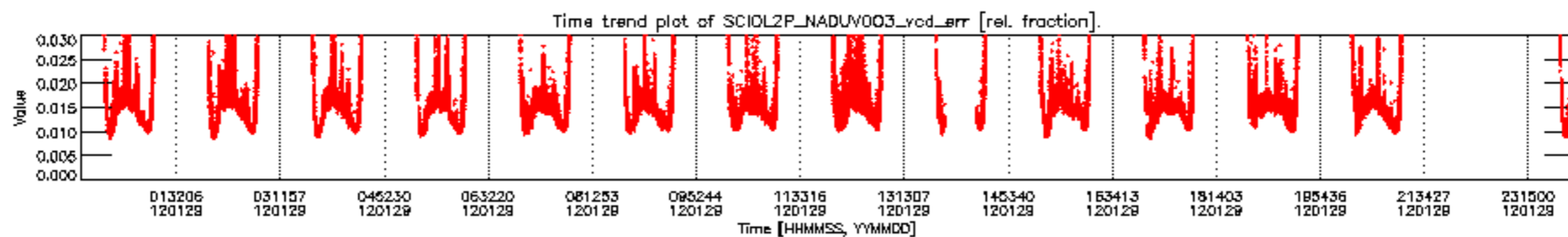
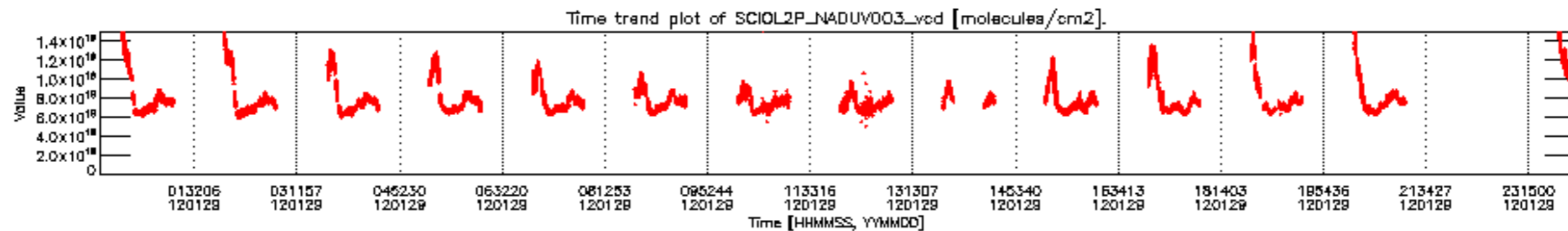


cLopt_depth for 29JAN2012 00:00:00 to 30JAN2012 00:00:00

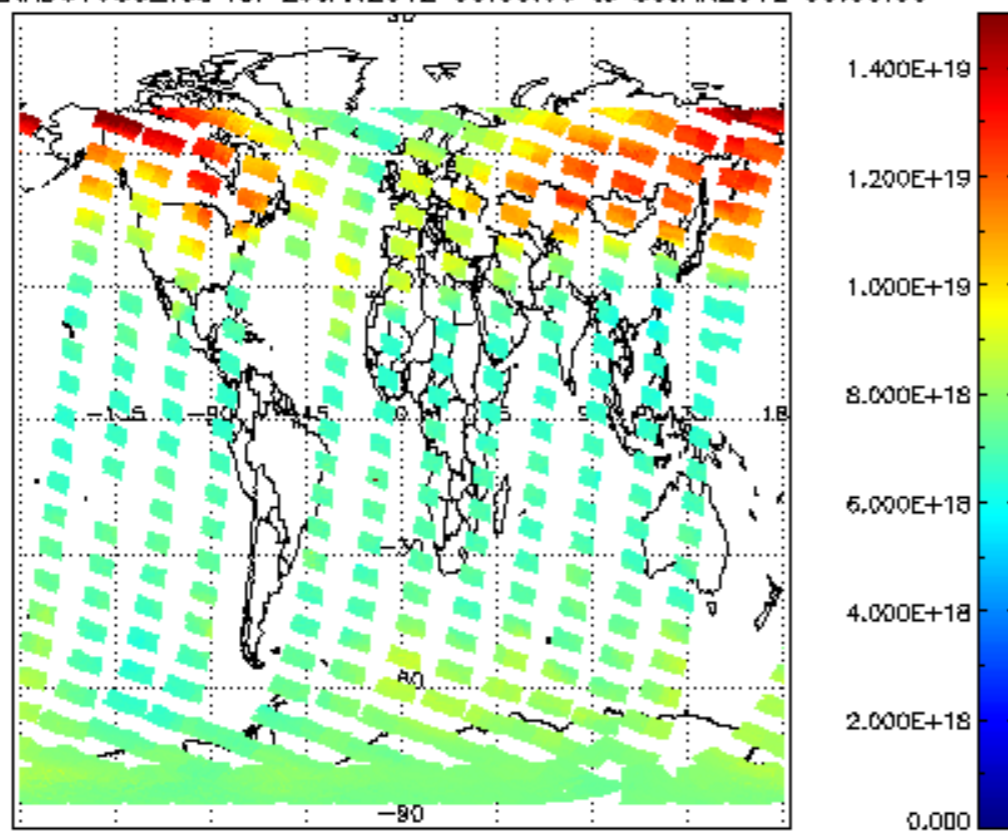


cloud_flags for 29JAN2012 00:00:00 to 30JAN2012 00:00:00

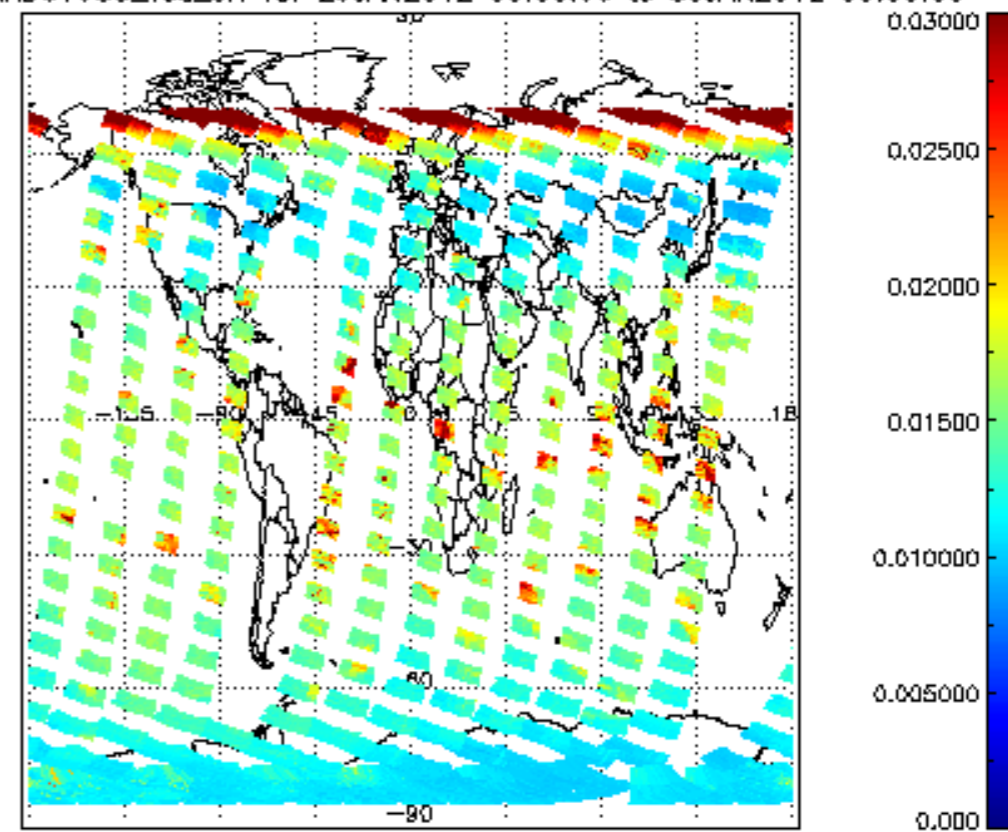




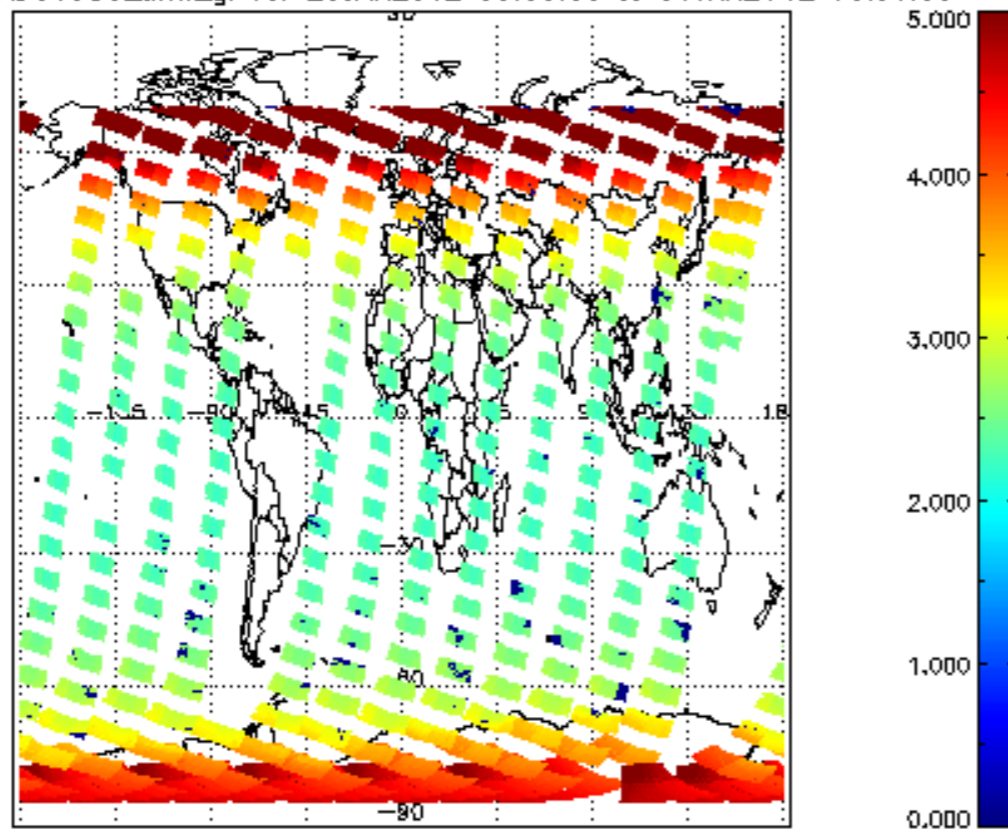
SCIOL2P_NADUV003_vcd for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



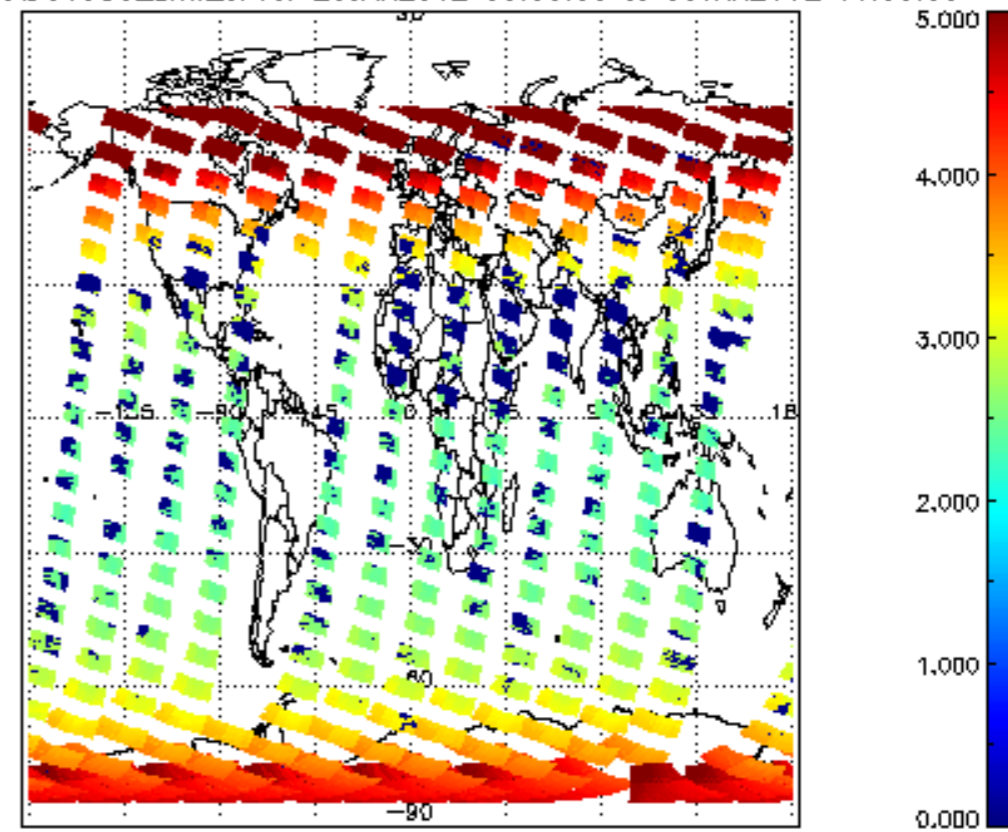
SCIOL2P_NADUV003_vcd_err for 29JAN2012 00:00:00 to 30JAN2012 00:00:00

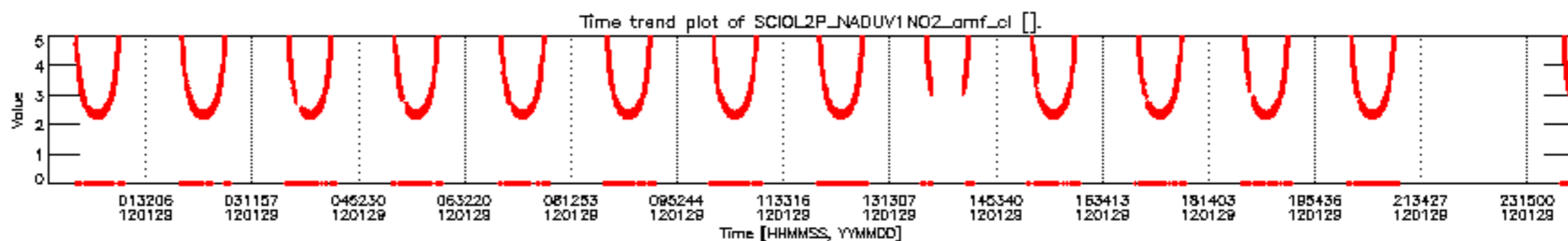
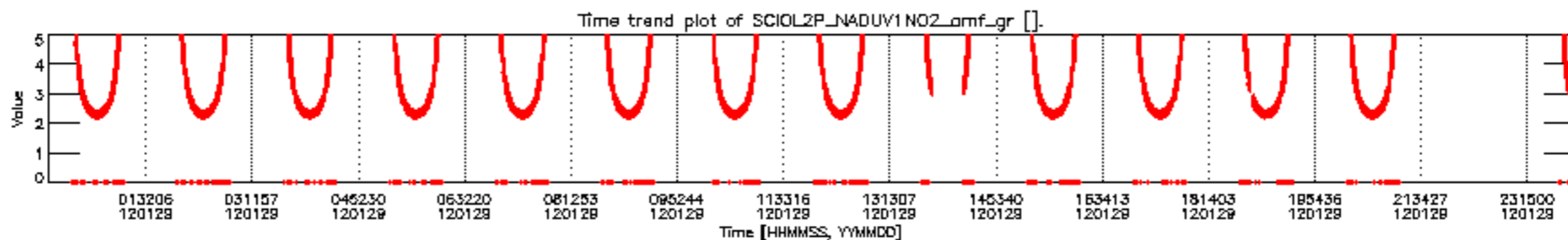
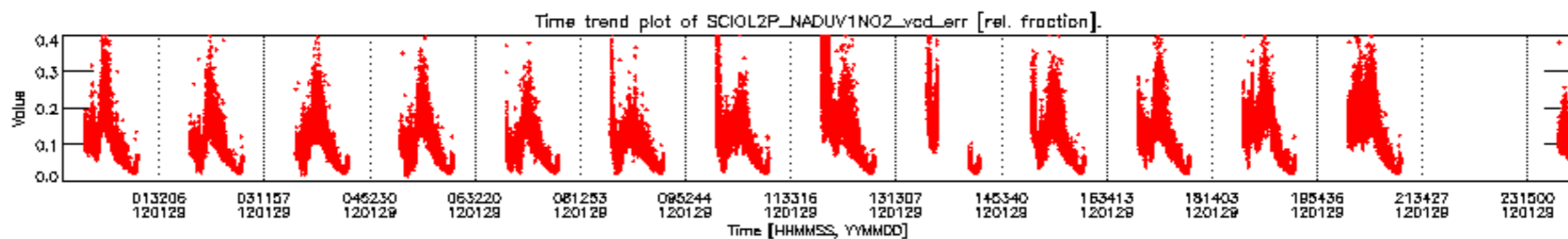
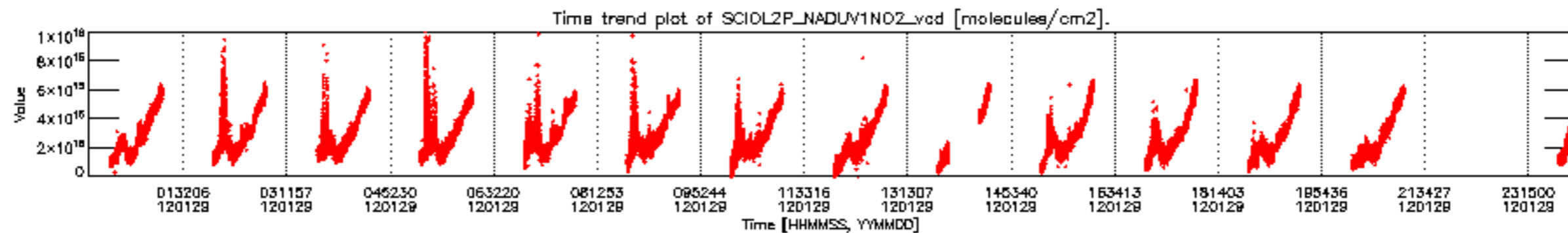


SCIOL2P_NADUV003_amf_gr for 29JAN2012 00:00:00 to 30JAN2012 00:00:00

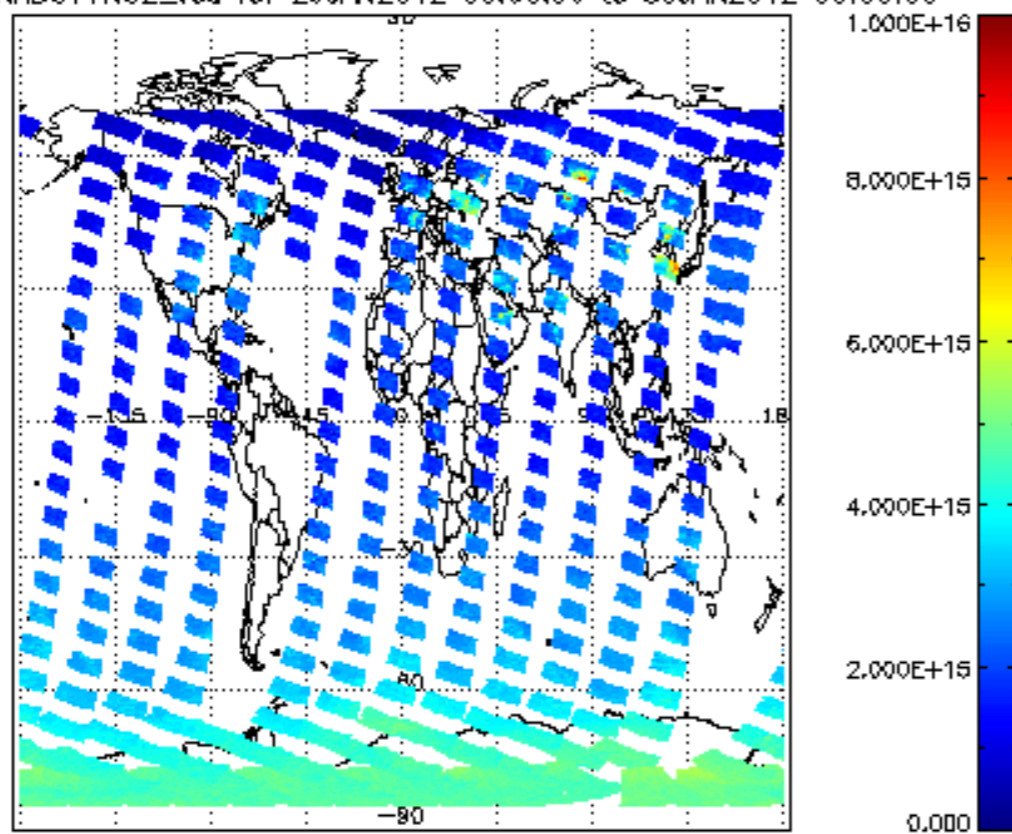


SCIOL2P_NADUV003_amf_cl for 29JAN2012 00:00:00 to 30JAN2012 00:00:00

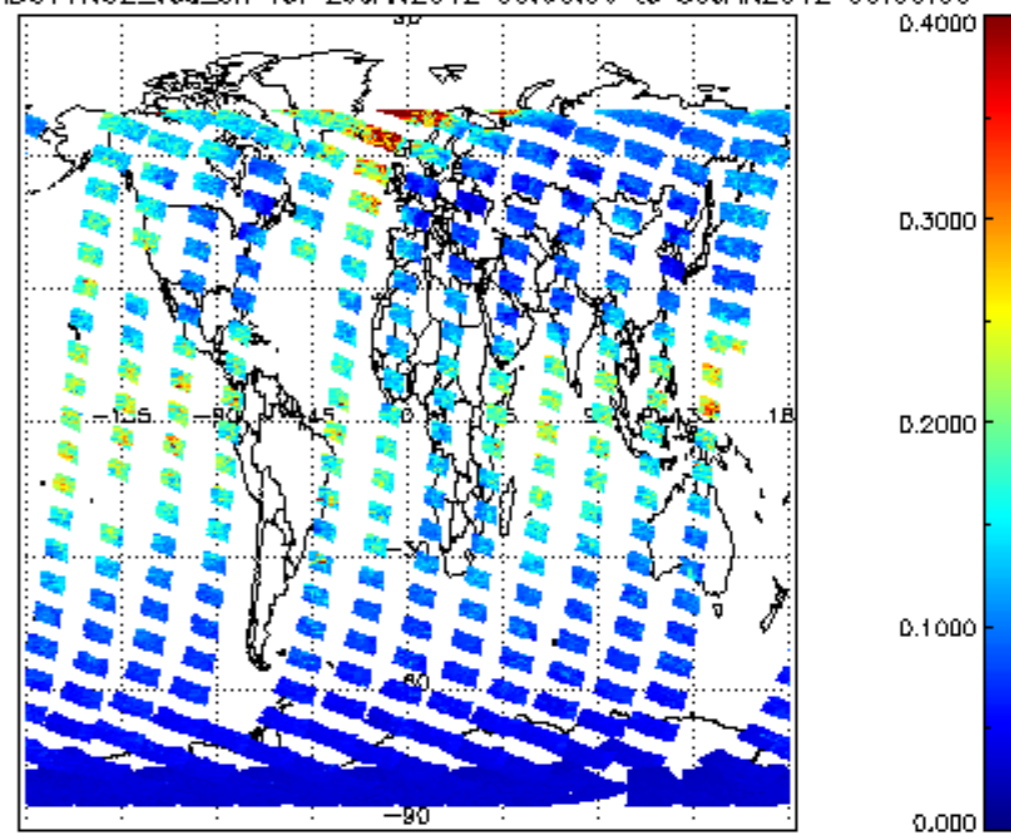




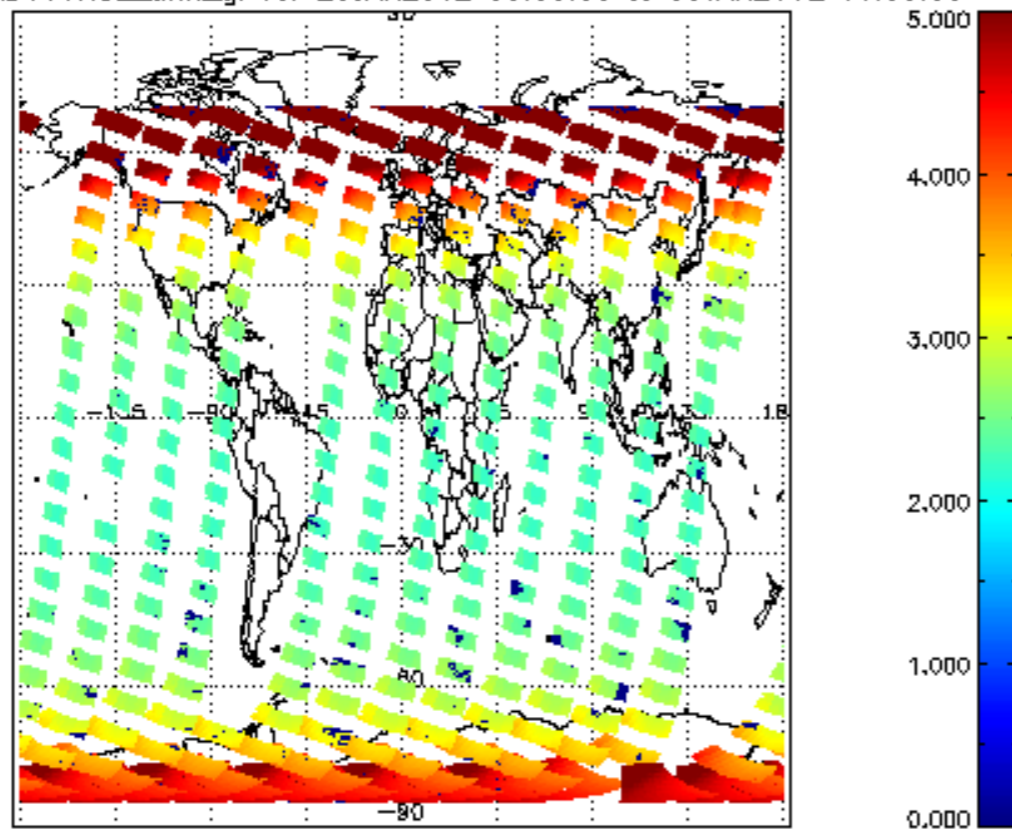
SCIOL2P_NADUV1NO2_vcd for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



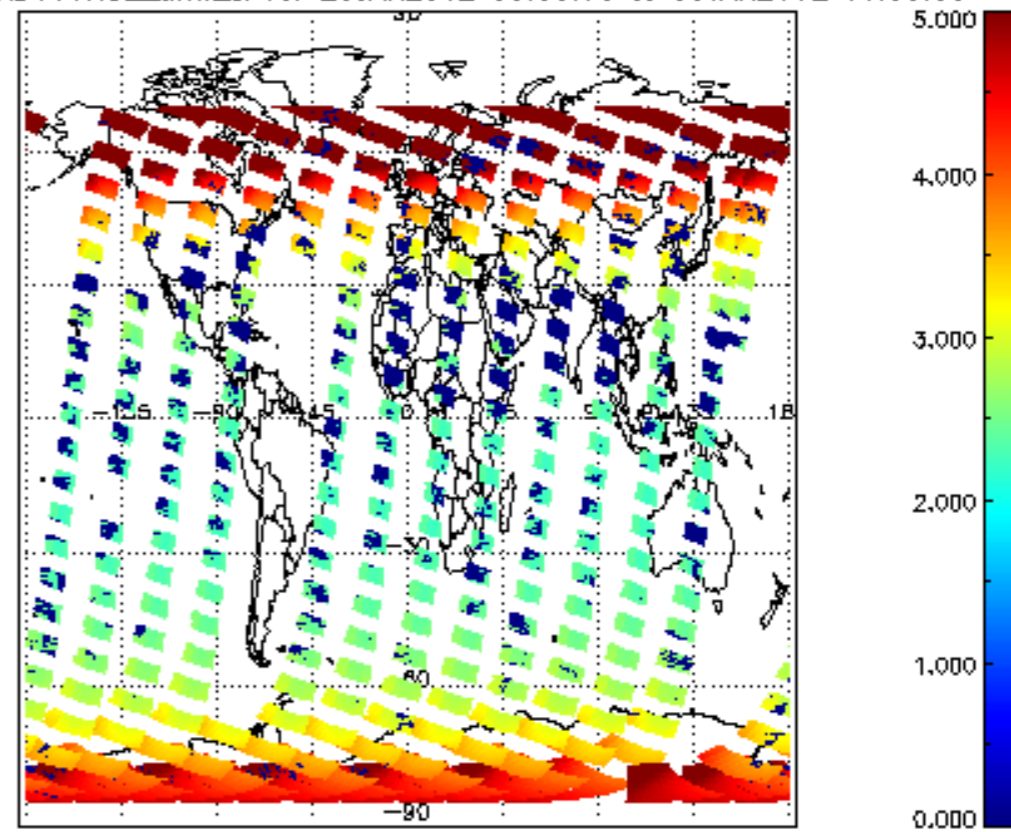
SCIOL2P_NADUV1NO2_vcd_err for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



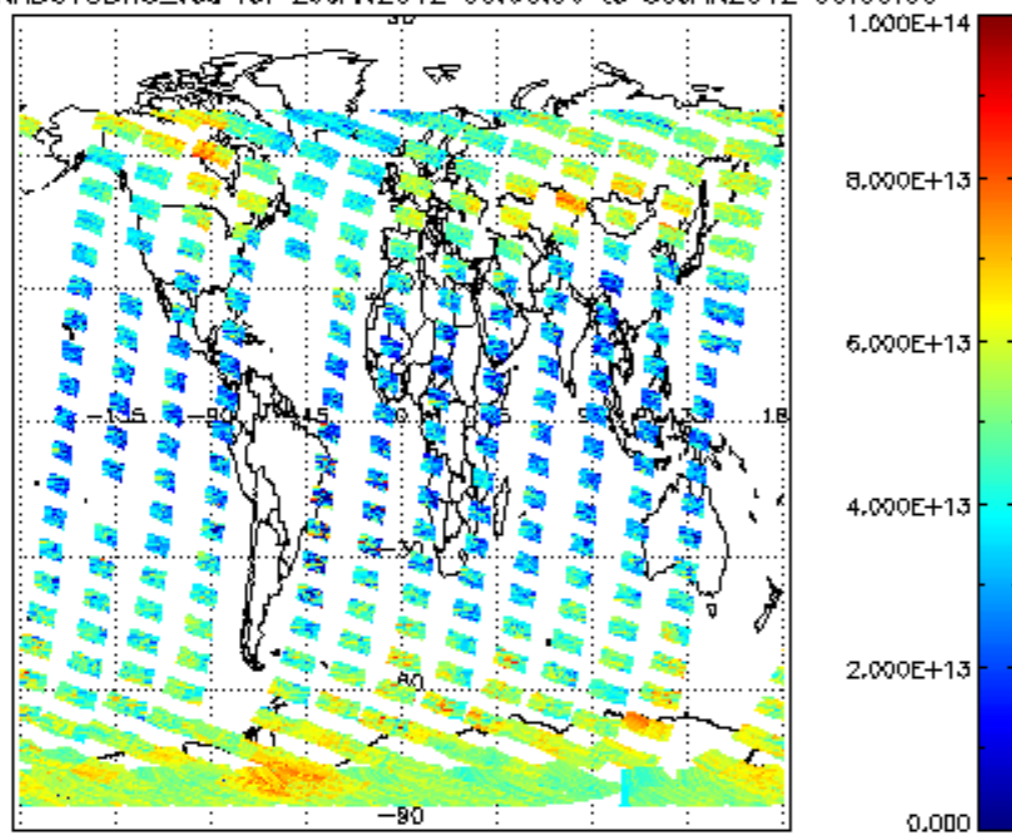
SCIOL2P_NADUV1NO2_amf_gr for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



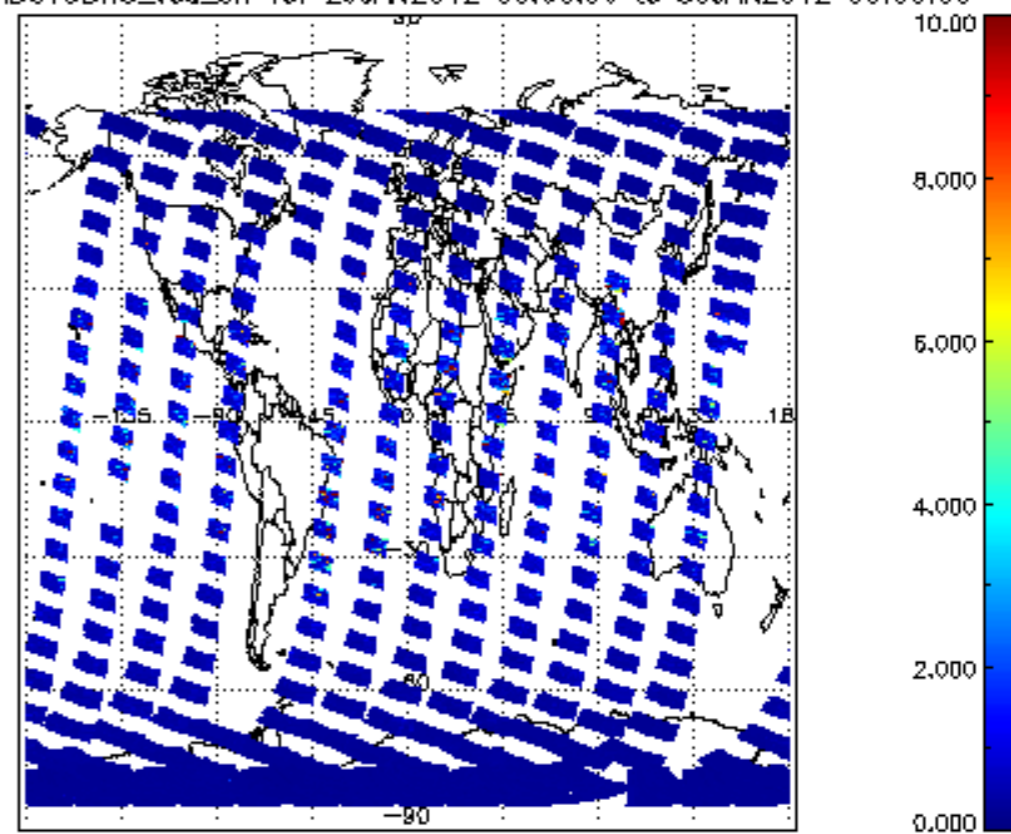
SCIOL2P_NADUV1NO2_amf_cl for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



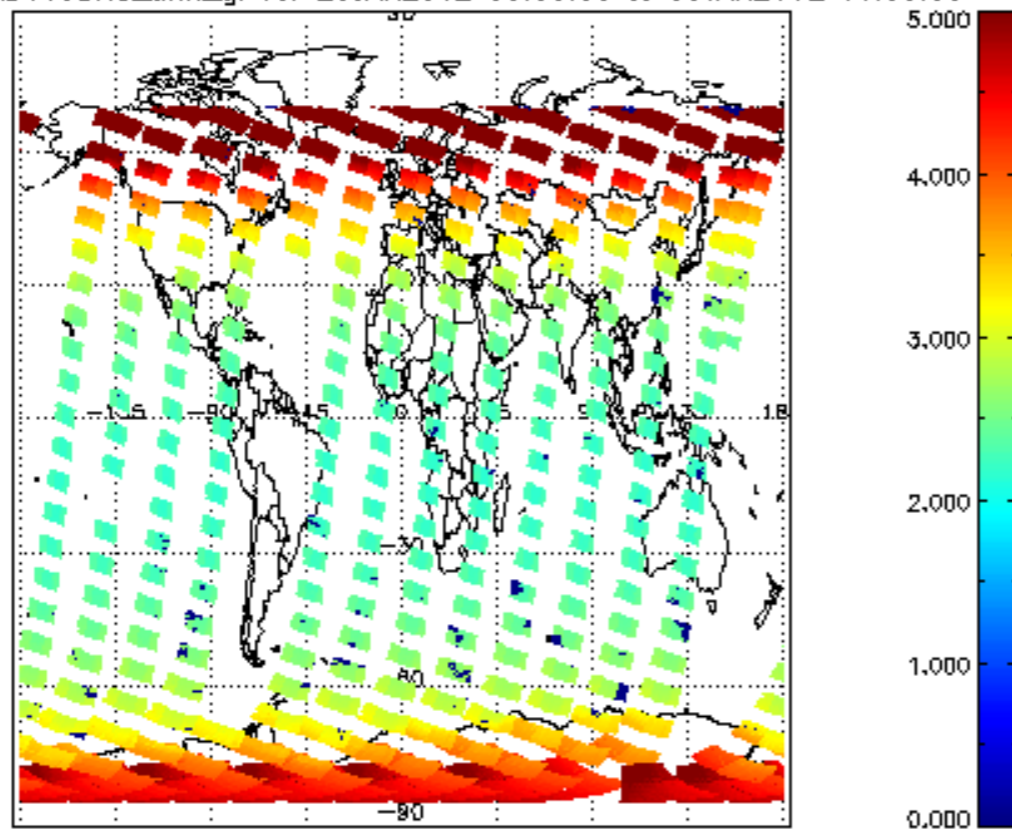
SCIOL2P_NADUV3BRO_vcd for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



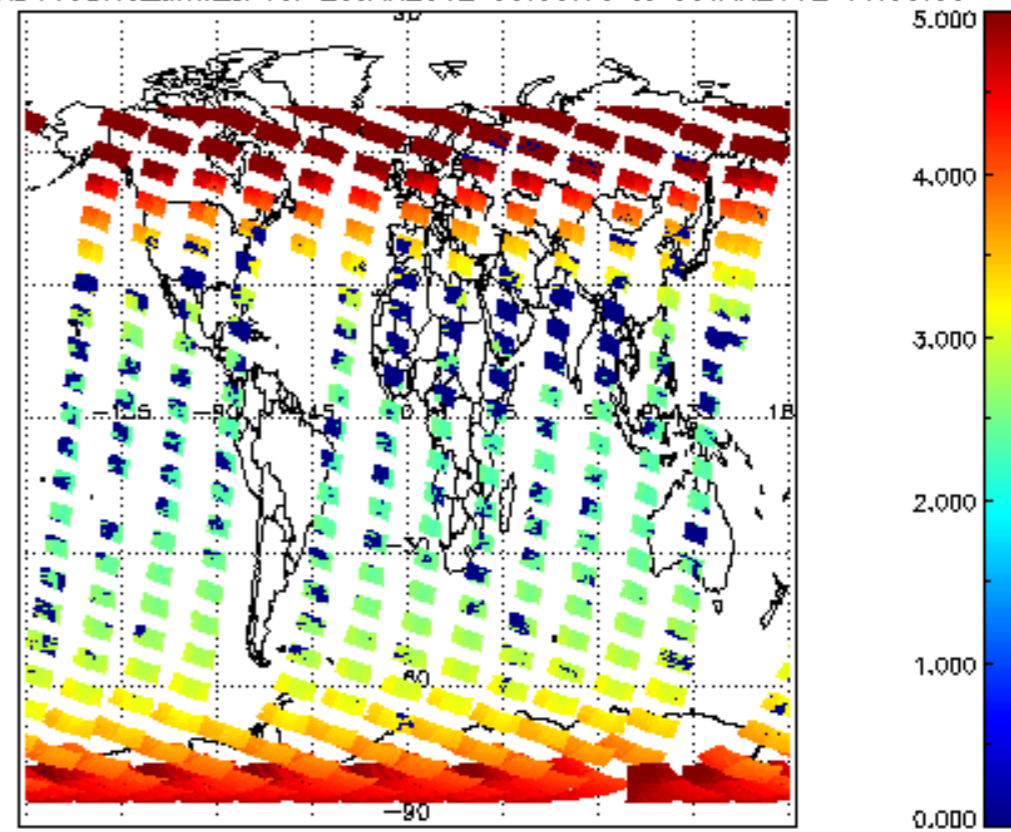
SCIOL2P_NADUV3BRO_vcd_err for 29JAN2012 00:00:00 to 30JAN2012 00:00:00

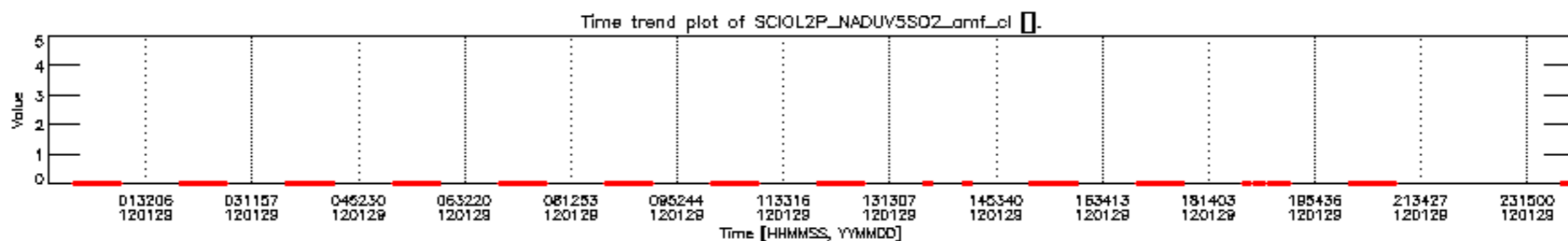
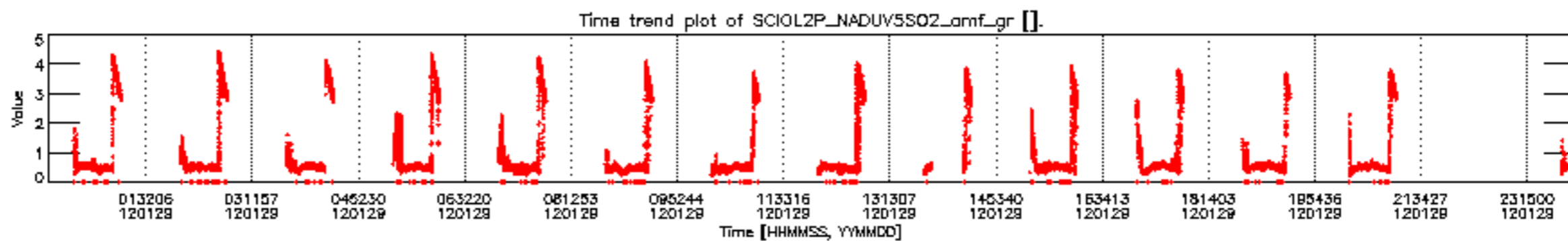
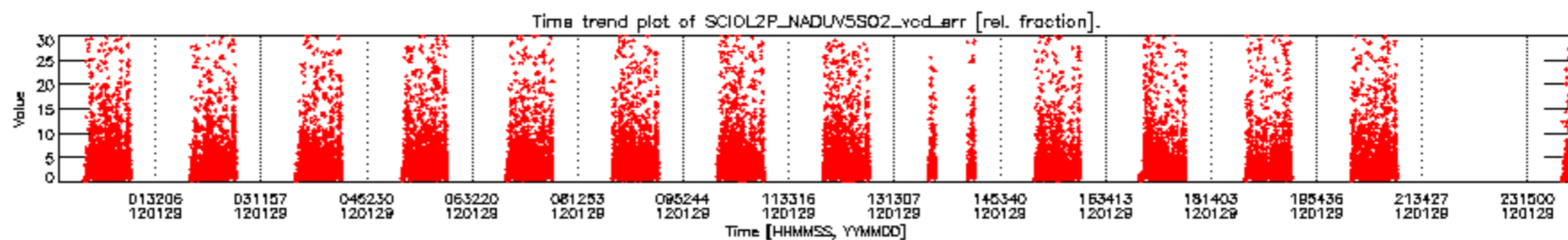
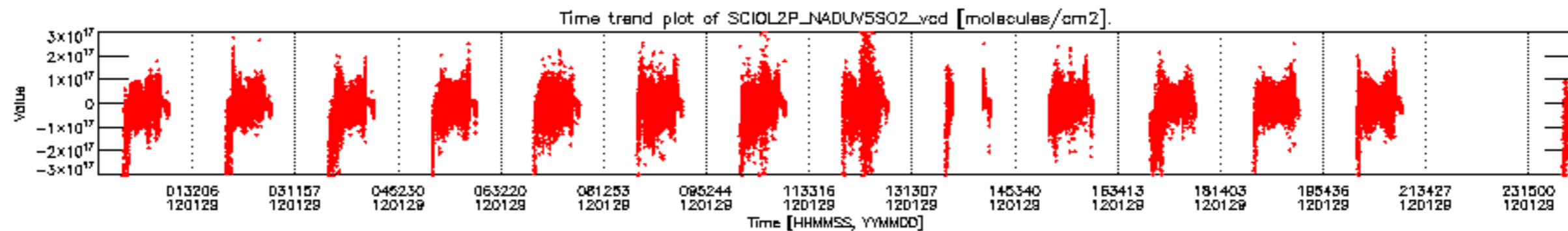


SCIOL2P_NADUV3BRO_amf_gr for 29JAN2012 00:00:00 to 30JAN2012 00:00:00

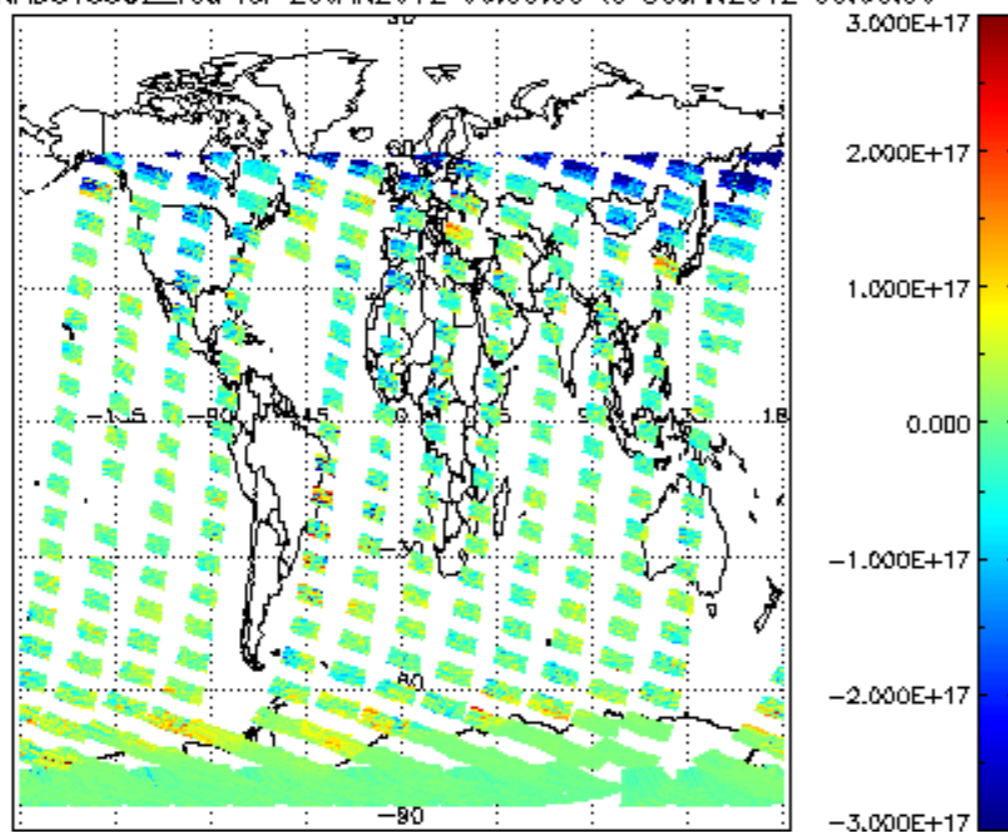


SCIOL2P_NADUV3BRO_amf_cl for 29JAN2012 00:00:00 to 30JAN2012 00:00:00

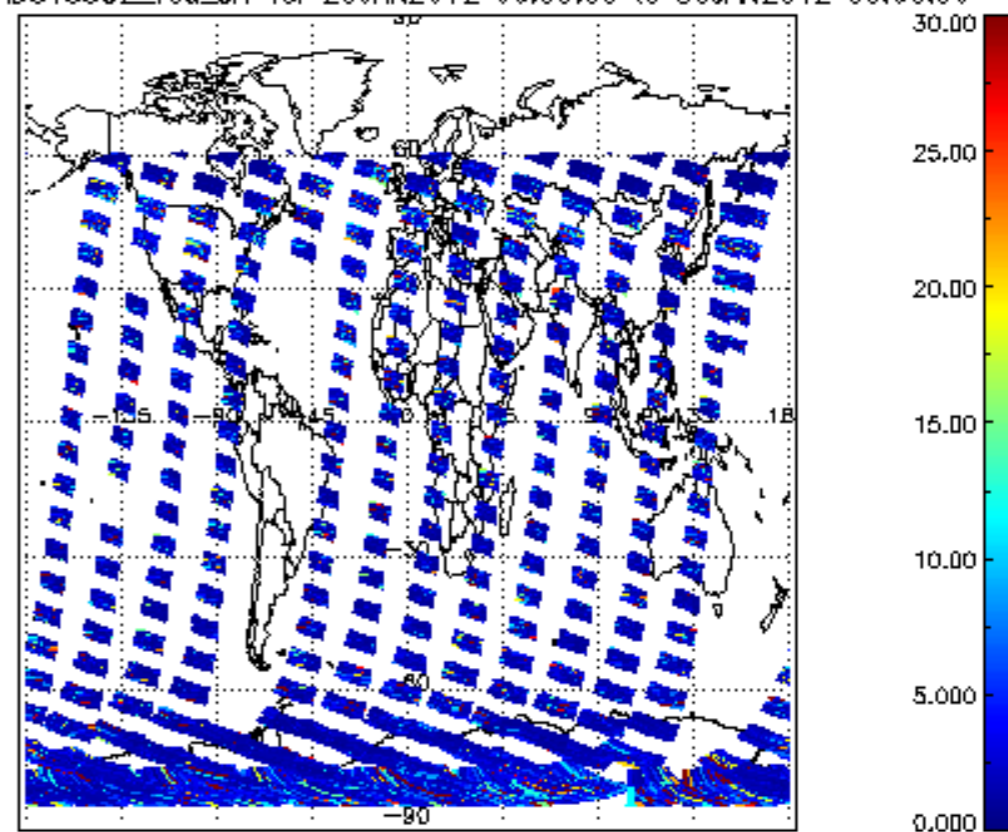




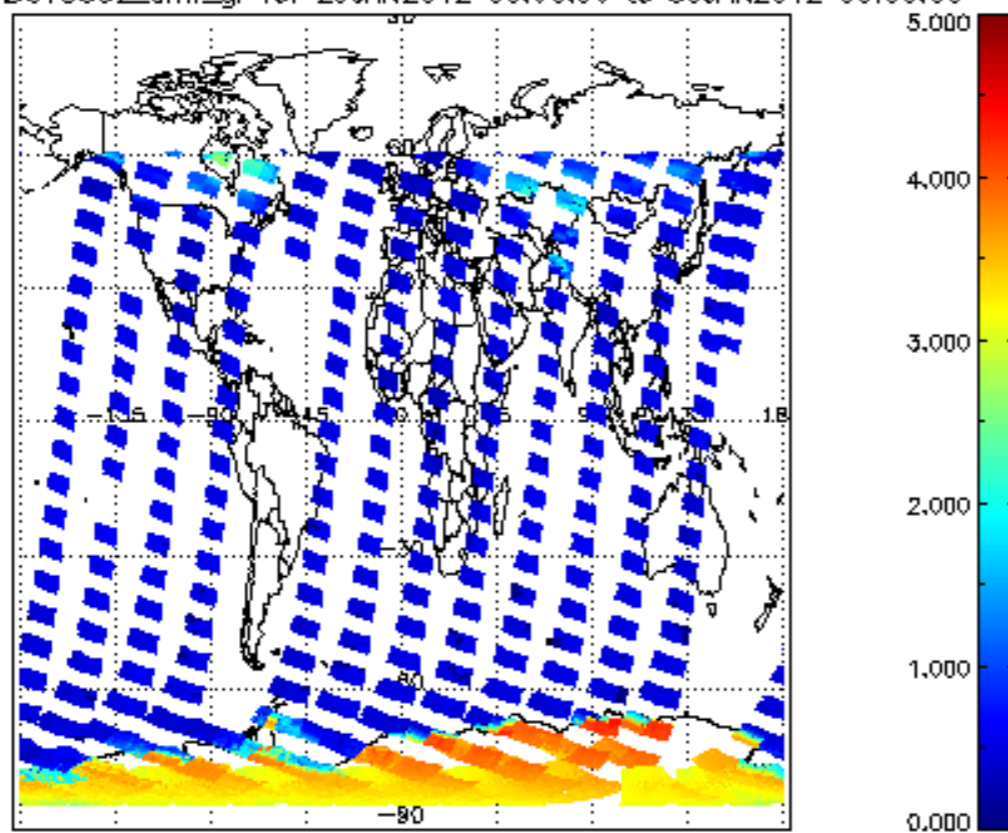
SCIOL2P_NADUV5S02_vcd for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



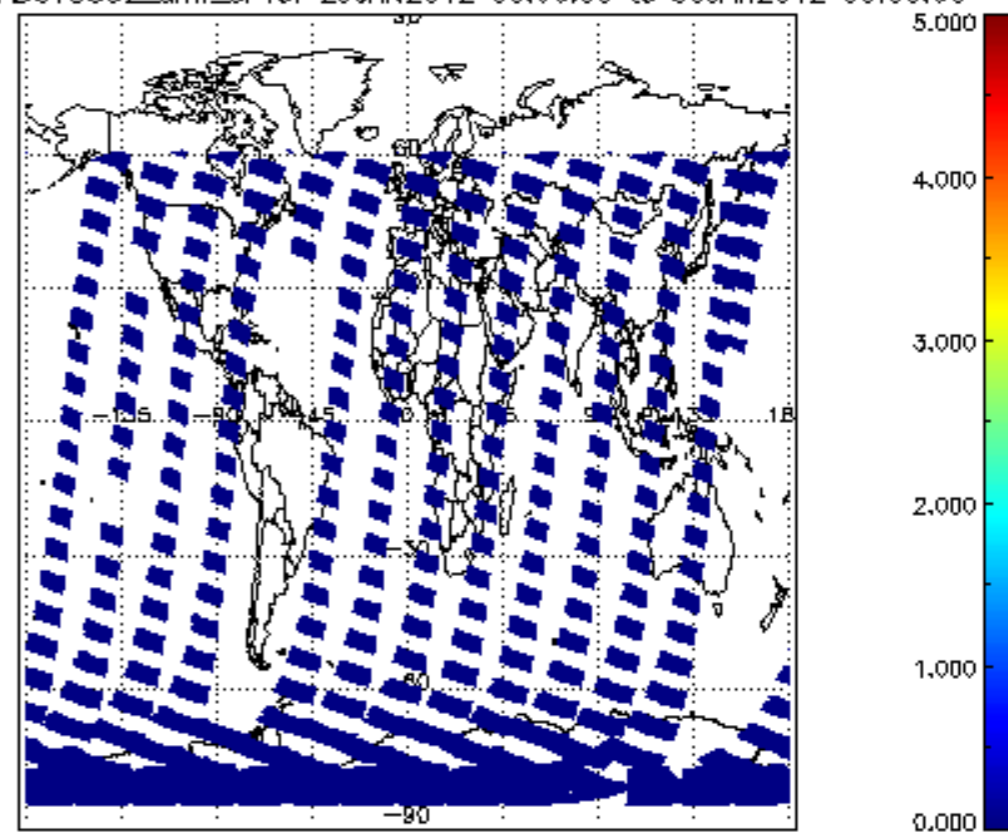
SCIOL2P_NADUV5S02_vcd_err for 29JAN2012 00:00:00 to 30JAN2012 00:00:00

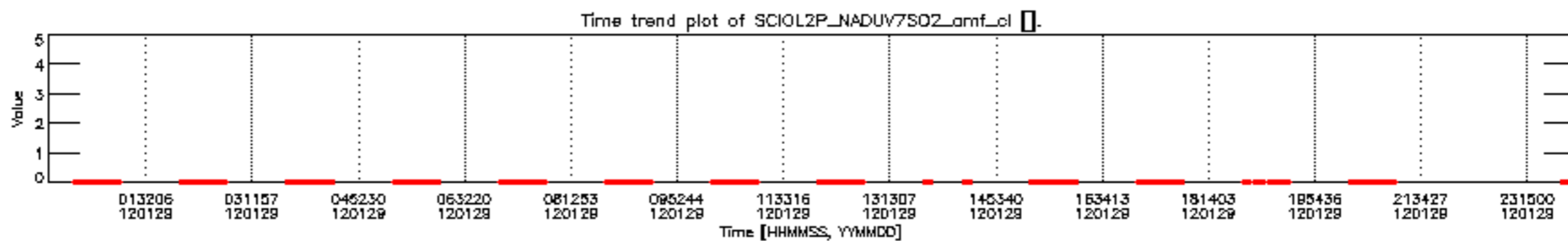
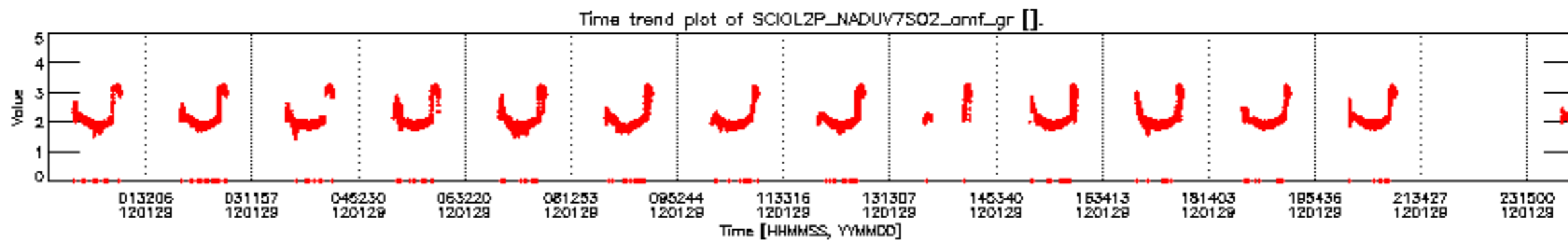
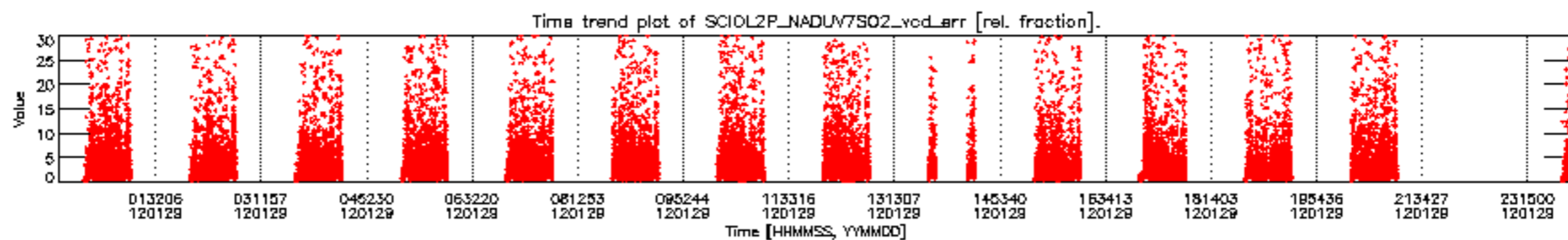
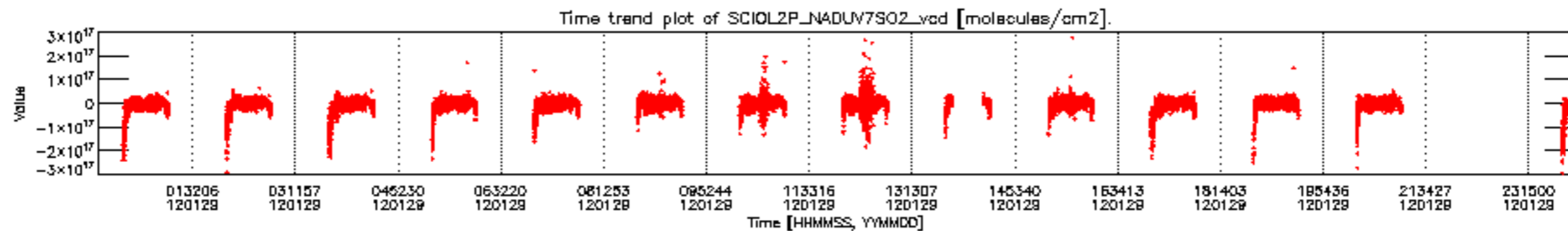


SCIOL2P_NADUV5S02_amf_gr for 29JAN2012 00:00:00 to 30JAN2012 00:00:00

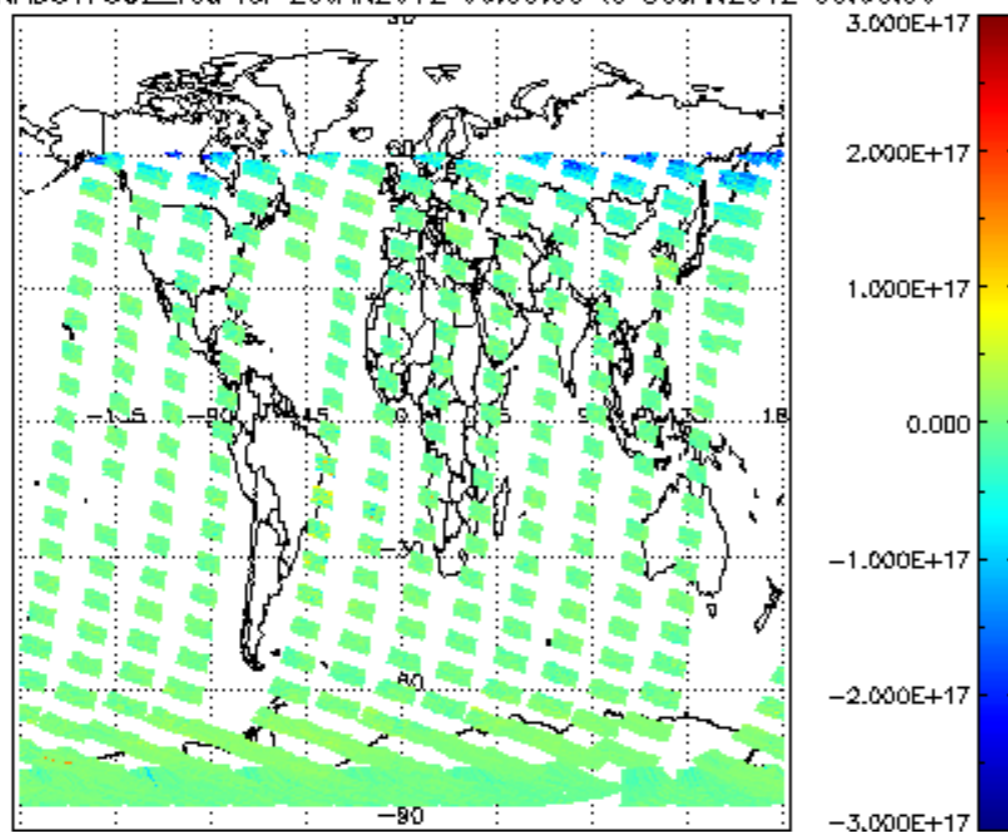


SCIOL2P_NADUV5S02_amf_cl for 29JAN2012 00:00:00 to 30JAN2012 00:00:00

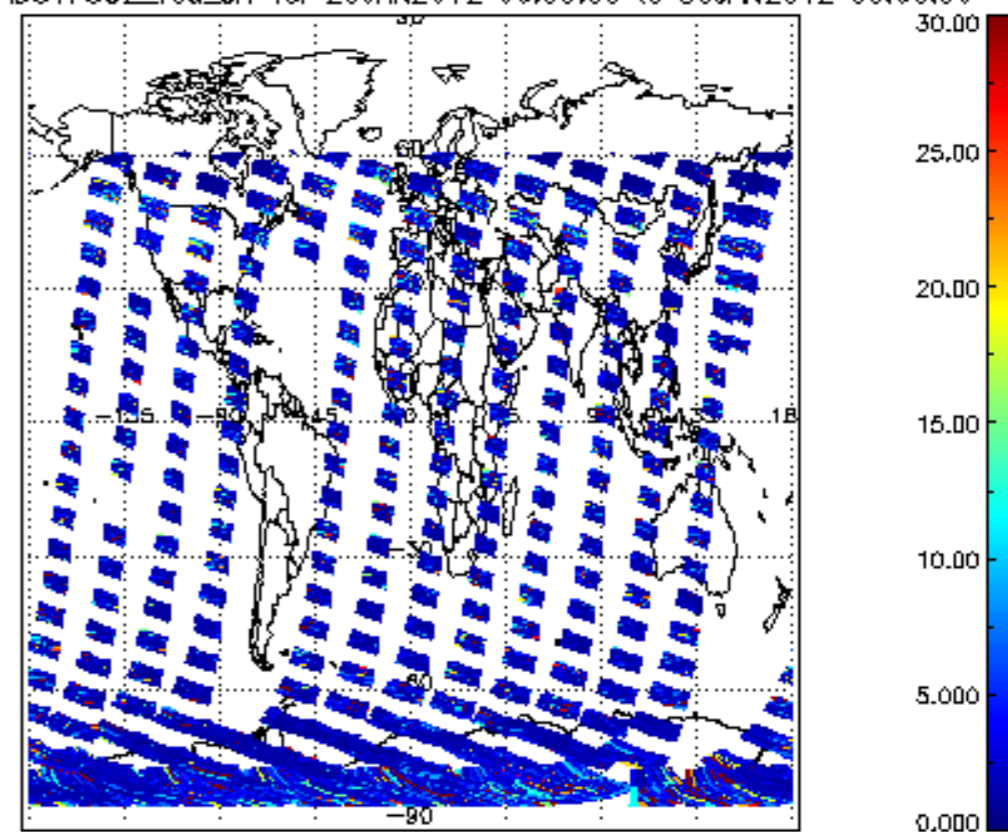




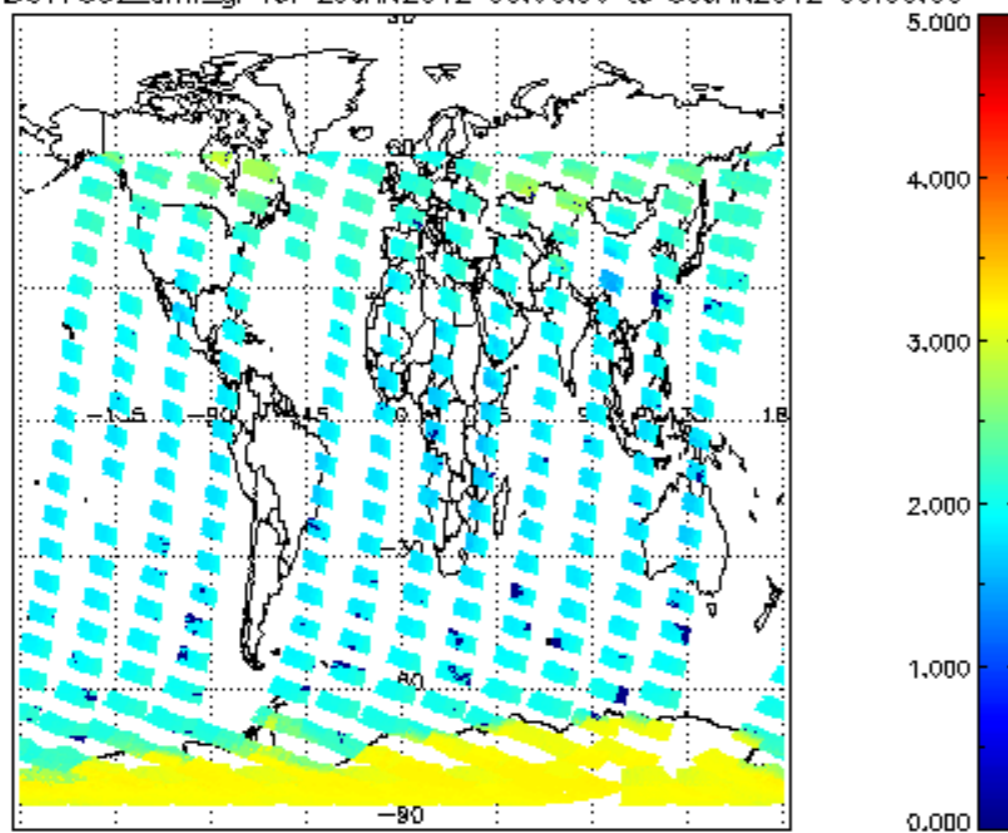
SCIOL2P_NADUV7S02_vcd for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



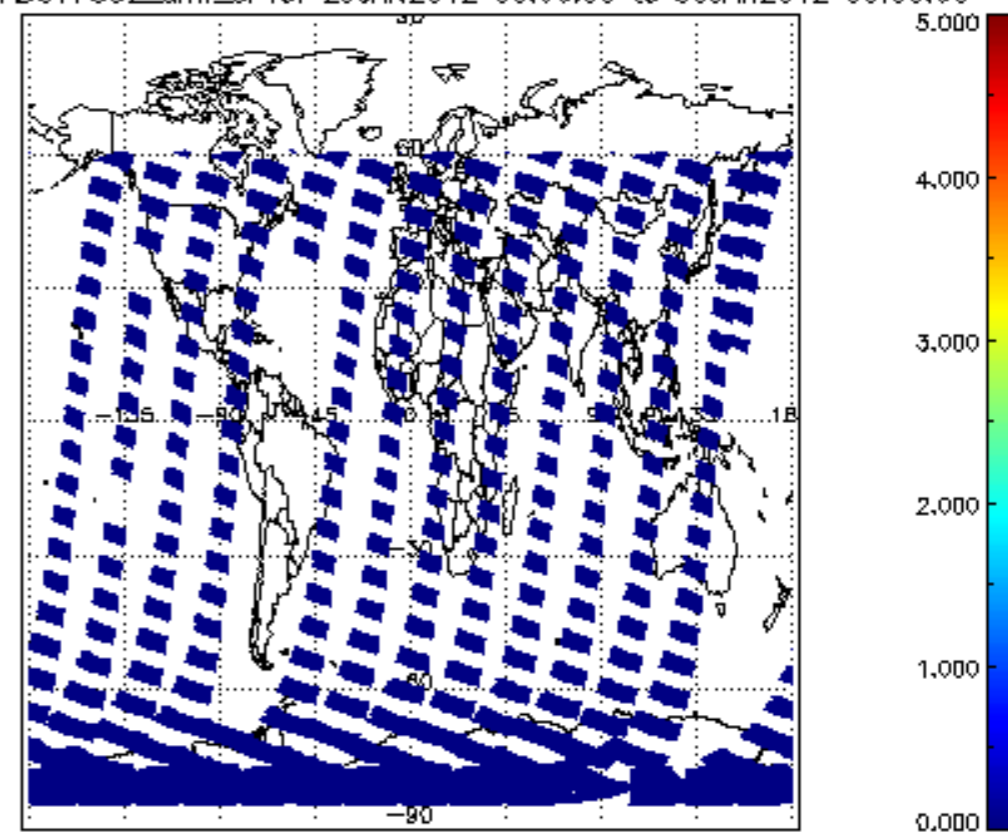
SCIOL2P_NADUV7S02_vcd_err for 29JAN2012 00:00:00 to 30JAN2012 00:00:00

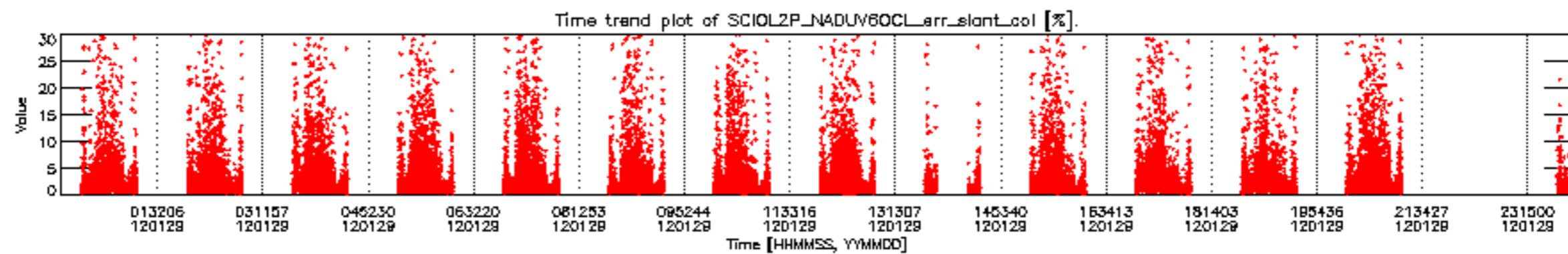
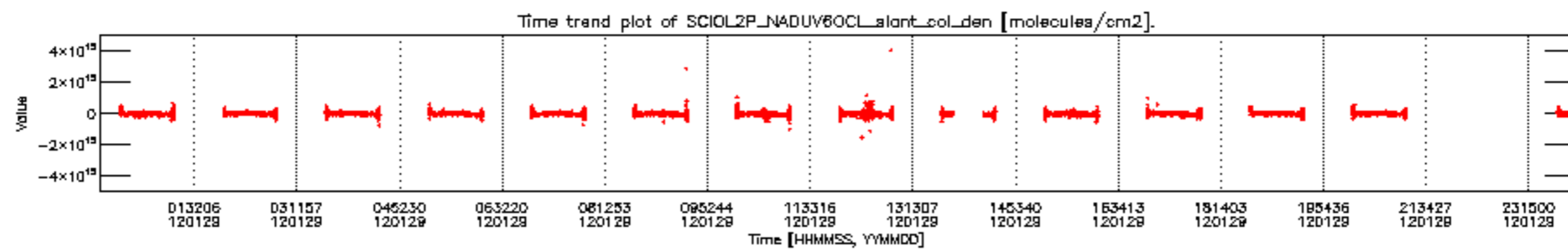


SCIOL2P_NADUV7S02_amf_gr for 29JAN2012 00:00:00 to 30JAN2012 00:00:00

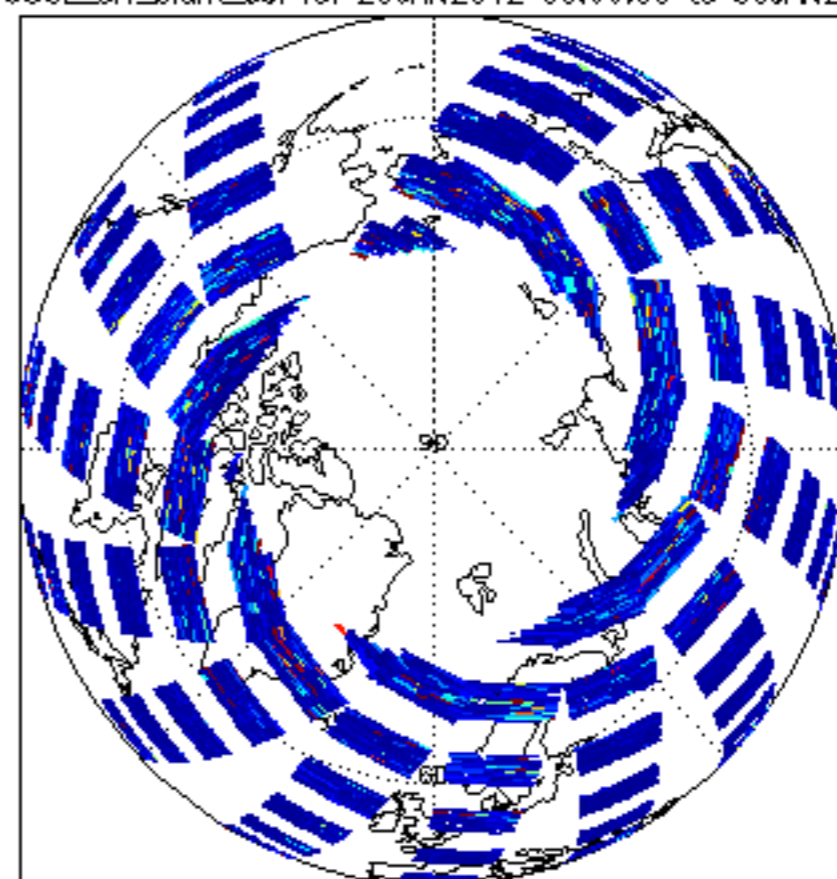
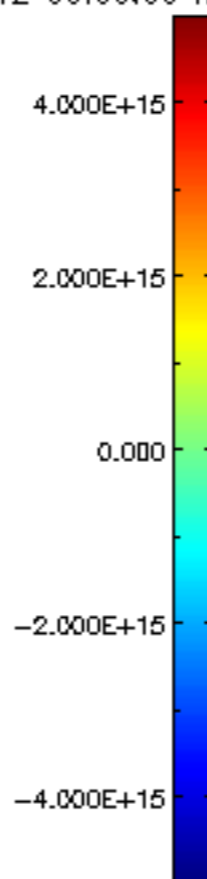
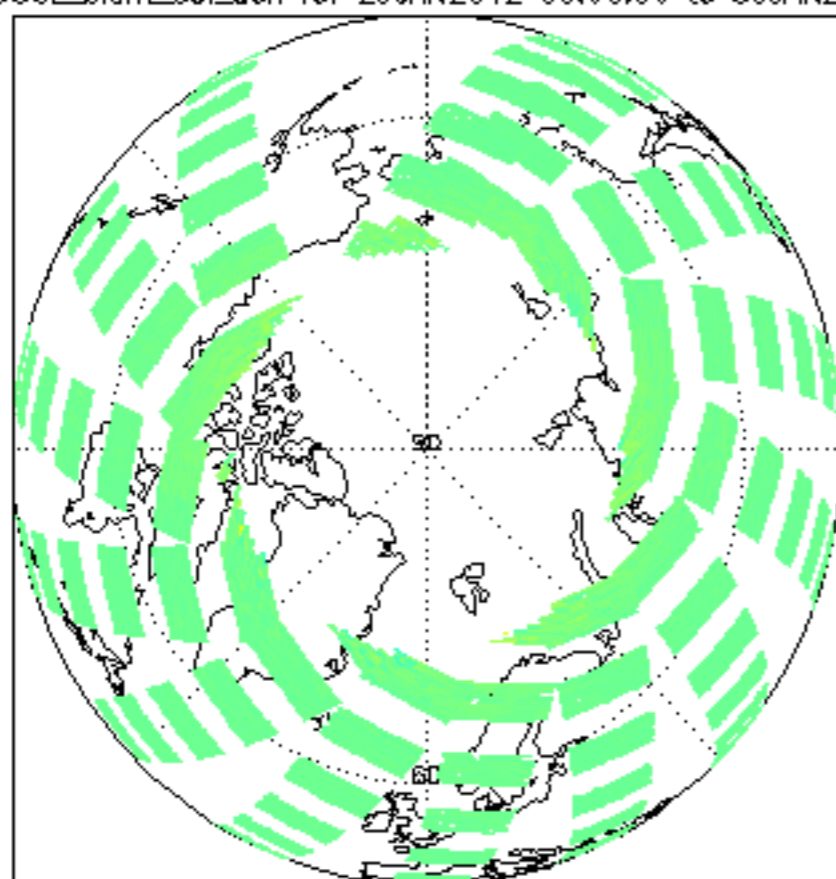


SCIOL2P_NADUV7S02_amf_cl for 29JAN2012 00:00:00 to 30JAN2012 00:00:00

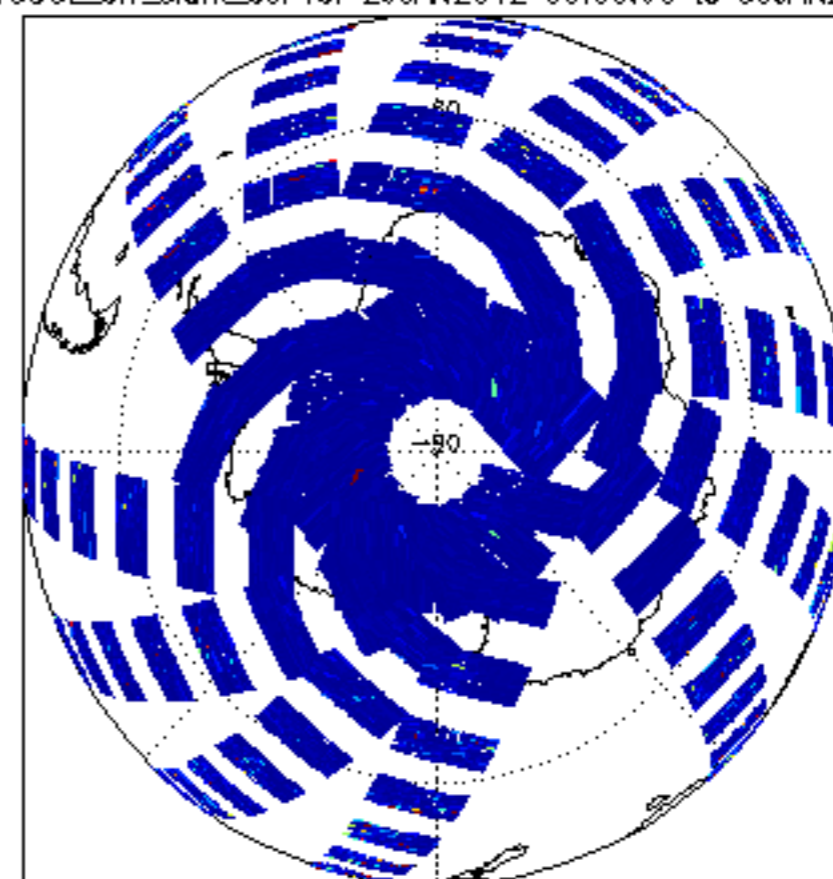
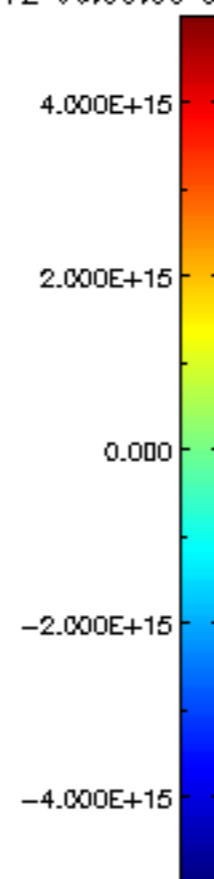
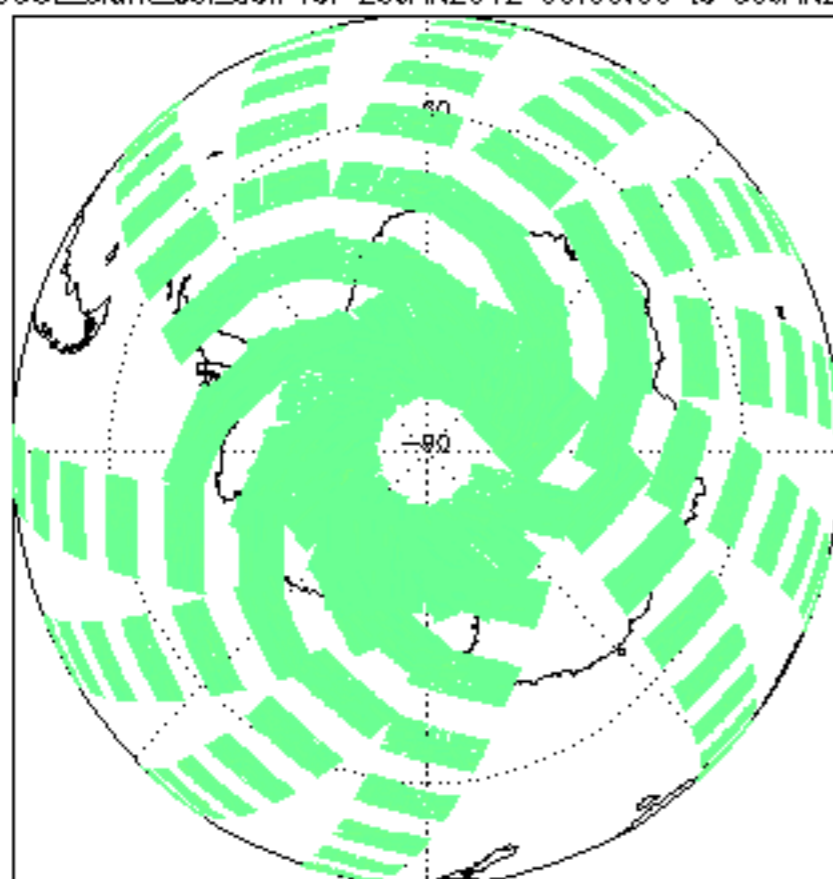


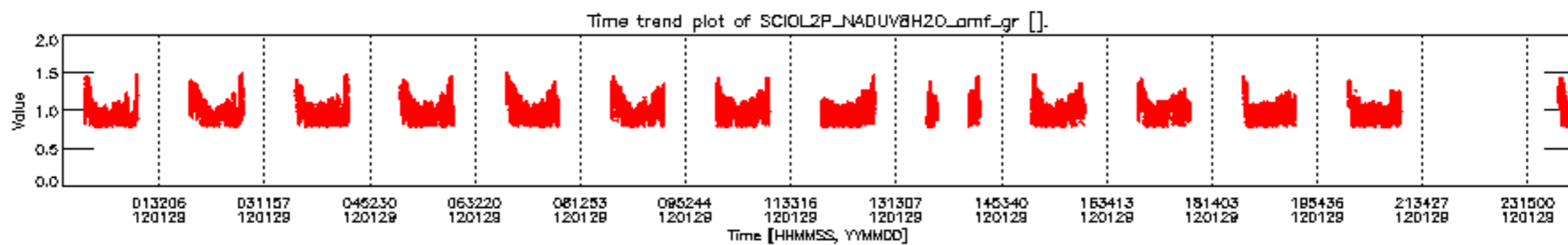
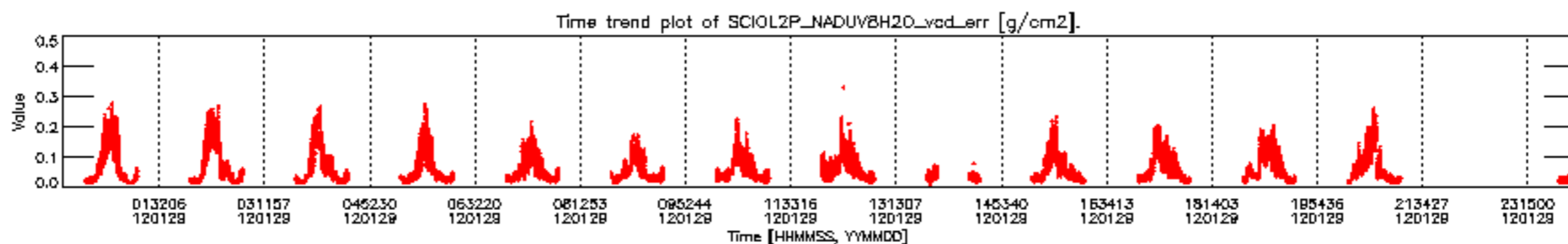
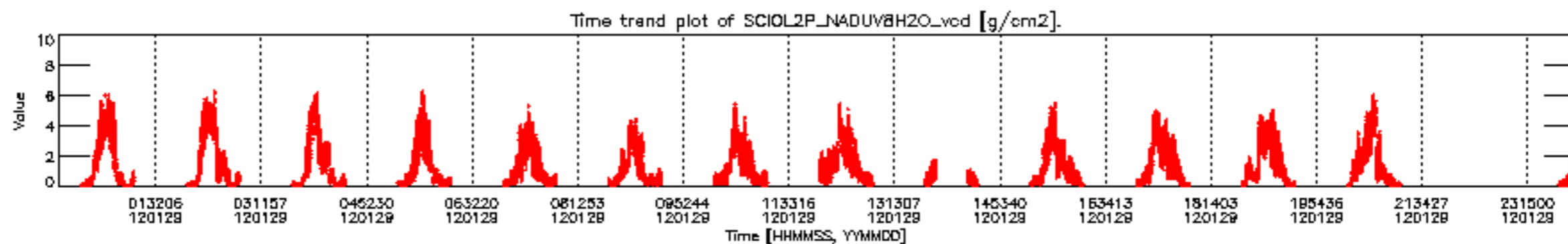


ICIOL2P_NADUV60CL_slant_col_den for 29JAN2012 00:00:00 to 30JAN2012 00:00:00 np;ICIOL2P_NADUV60CL_err_slant_col for 29JAN2012 00:00:00 to 30JAN2012 00:00:00 np

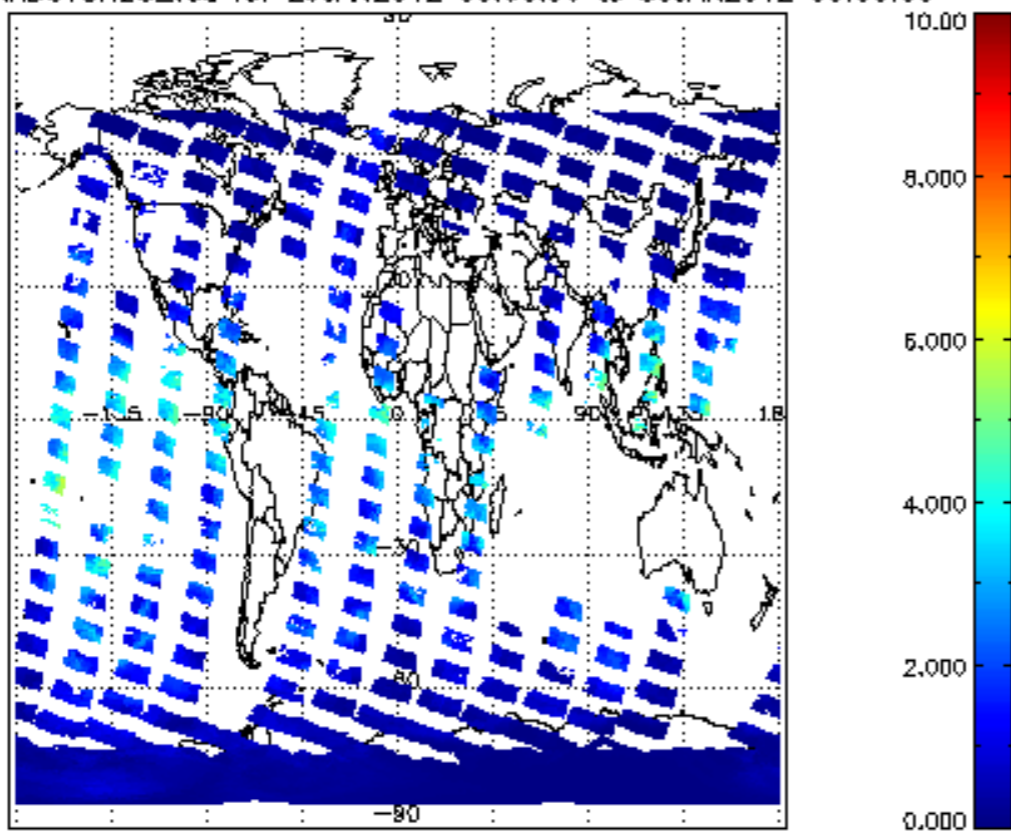


iCIOL2P_NADUV6OCL_slant_col_den for 29JAN2012 00:00:00 to 30JAN2012 00:00:00 sp iCIOL2P_NADUV6OCL_err_slant_col for 29JAN2012 00:00:00 to 30JAN2012 00:00:00 sp

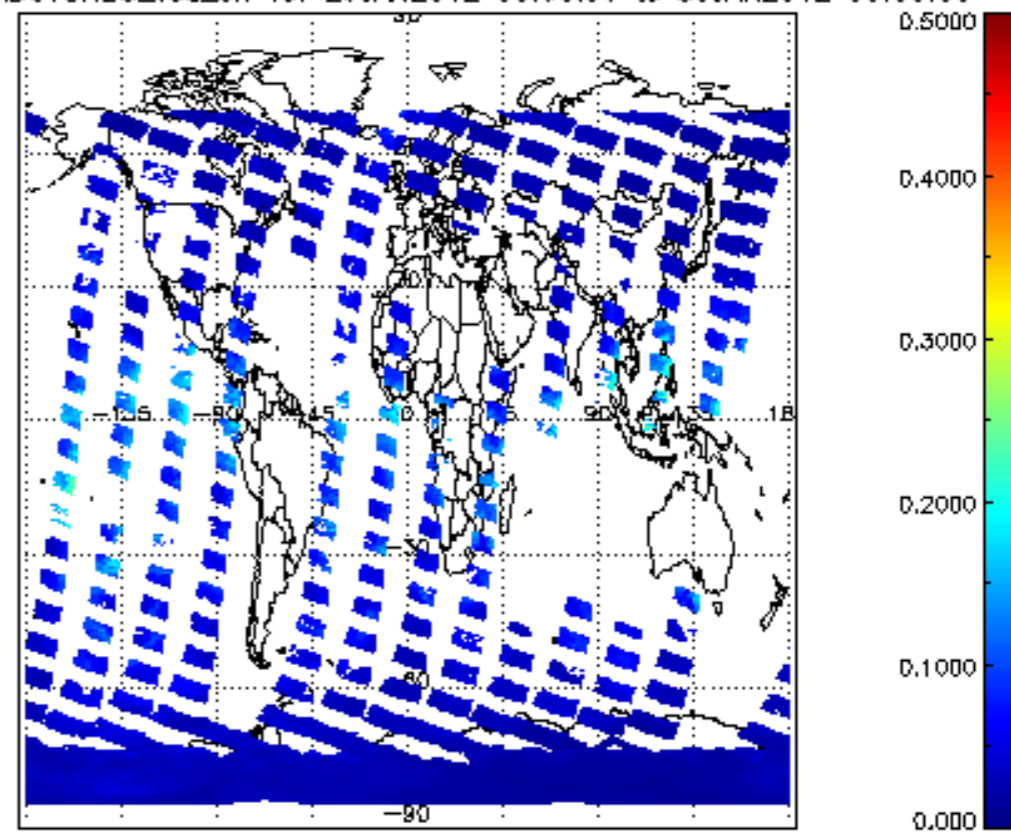




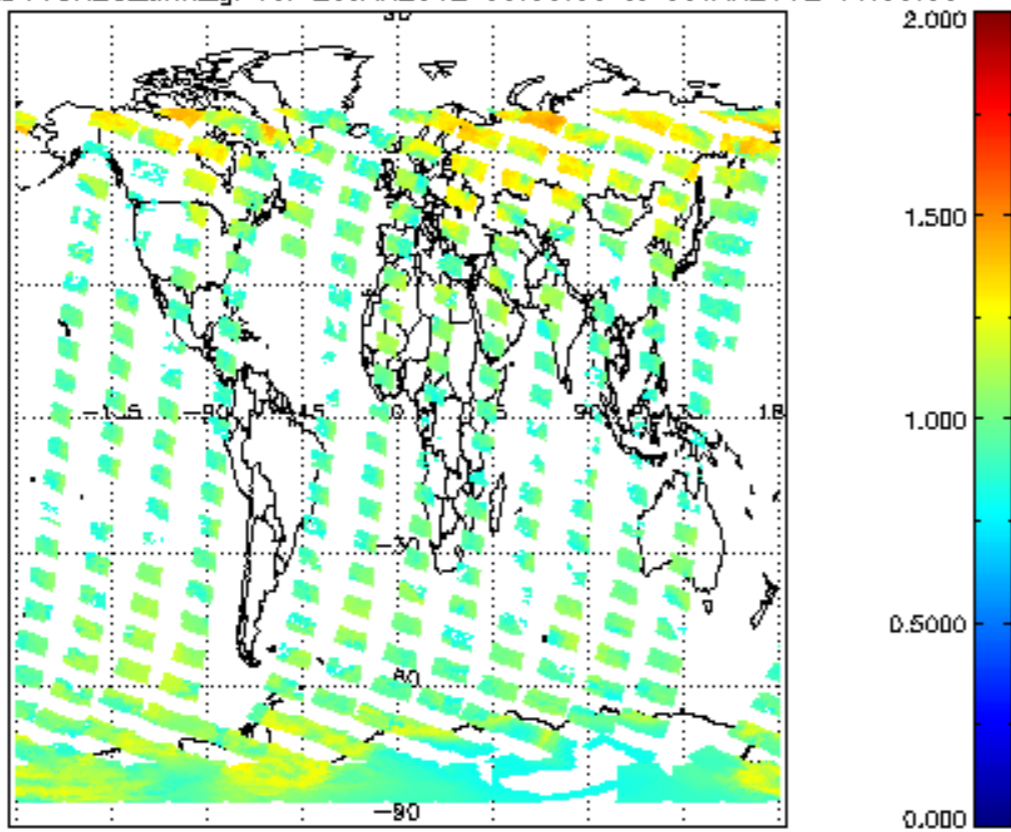
SCIOL2P_NADUV8H20_vcd for 29JAN2012 00:00:00 to 30JAN2012 00:00:00

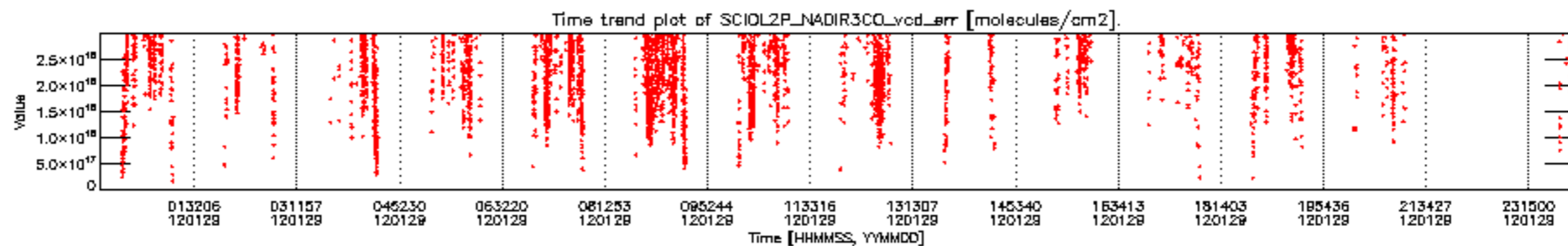
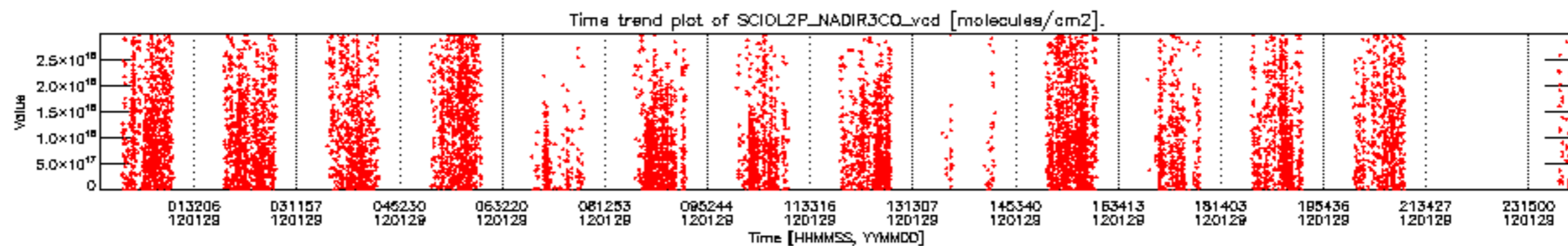


SCIOL2P_NADUV8H20_vcd_err for 29JAN2012 00:00:00 to 30JAN2012 00:00:00

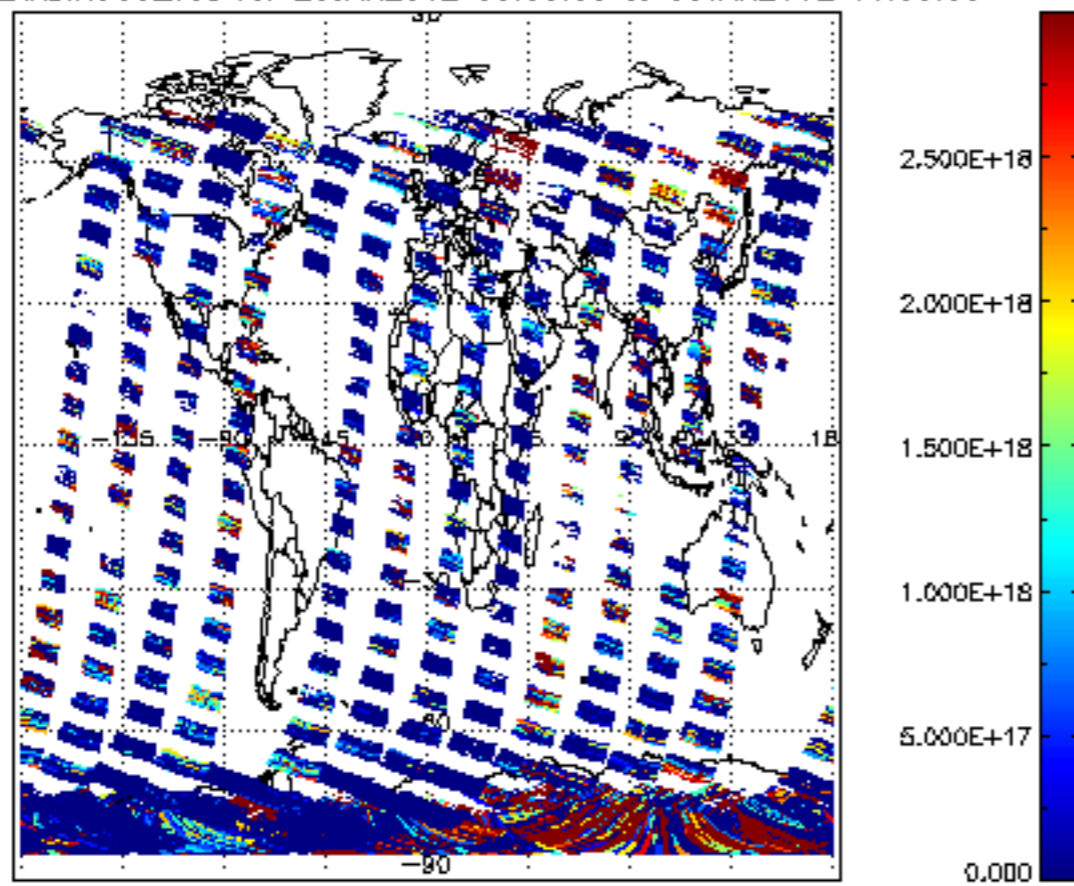


SCIOL2P_NADUV8H20_amf_gr for 29JAN2012 00:00:00 to 30JAN2012 00:00:00

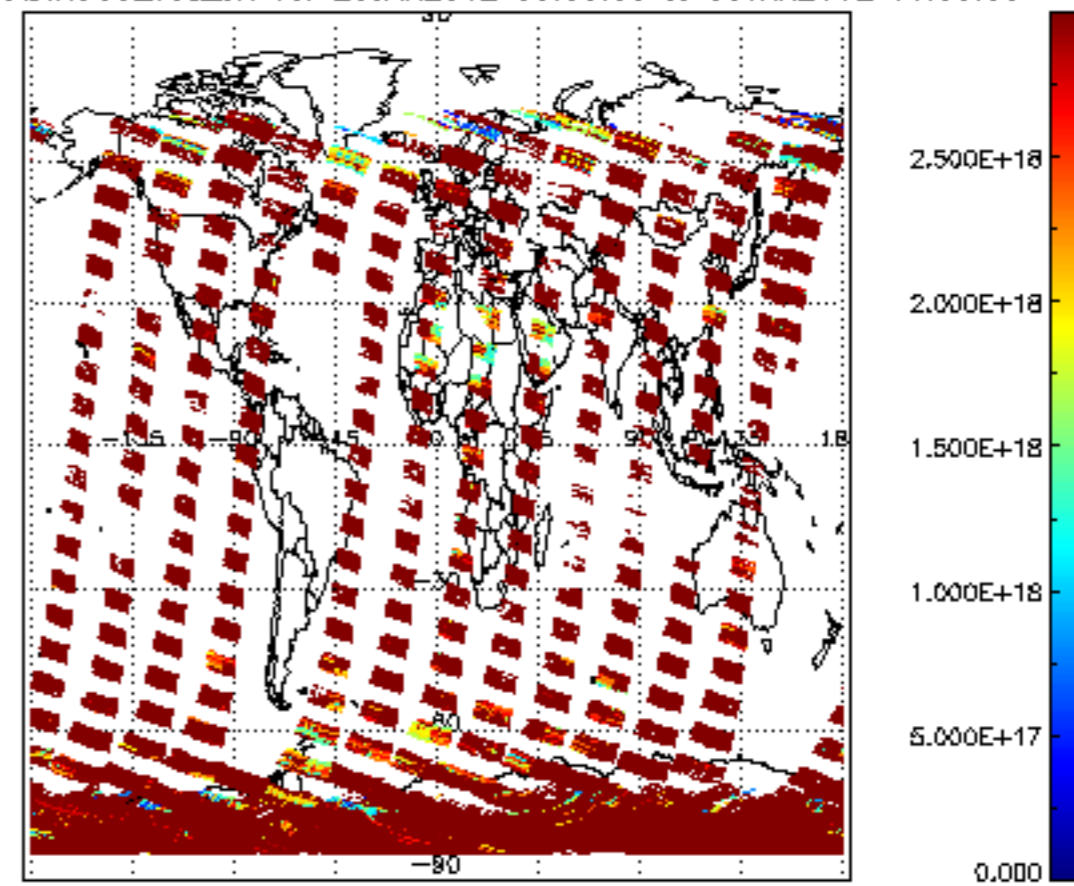




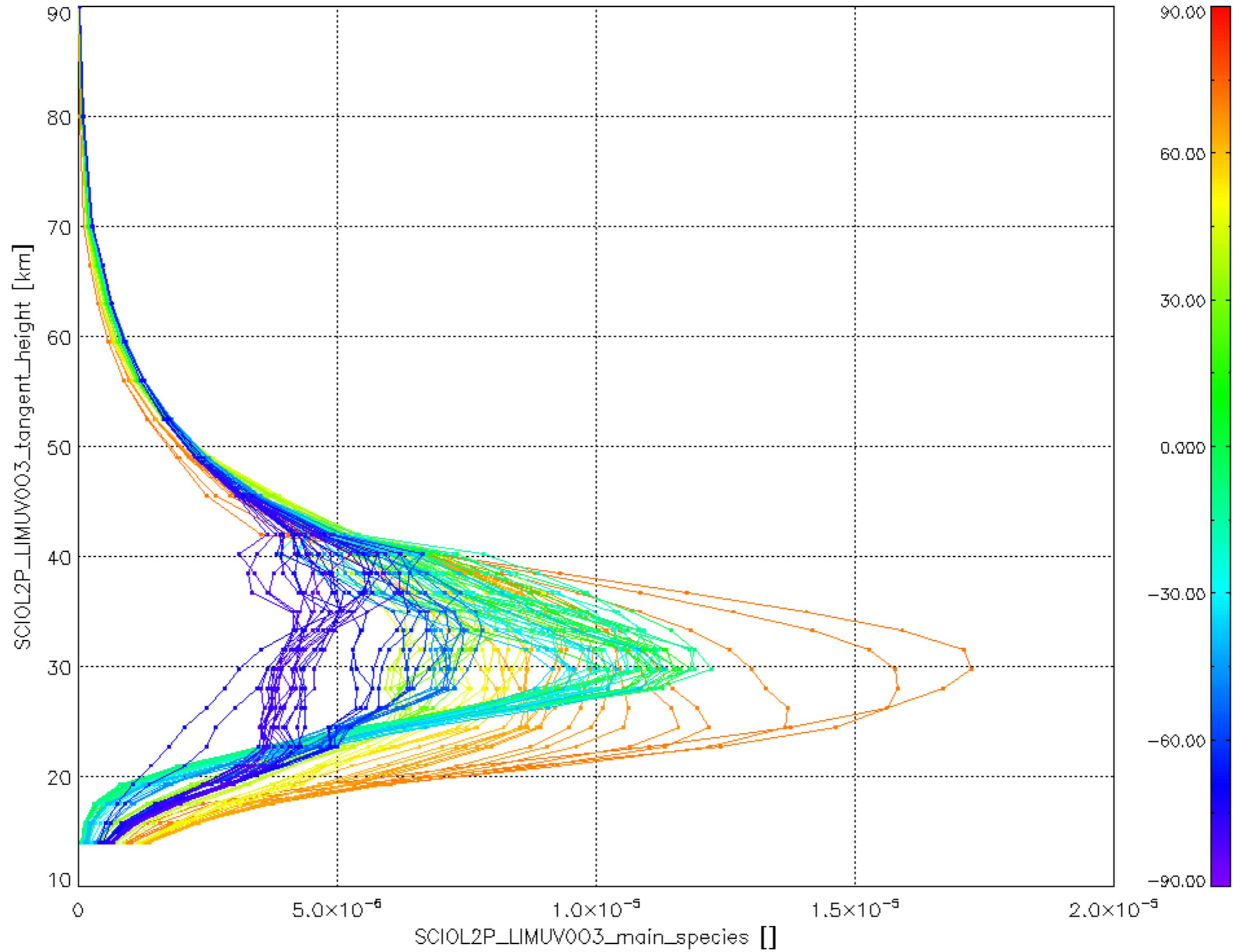
SCIOL2P_NADIR3CO_vcd for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



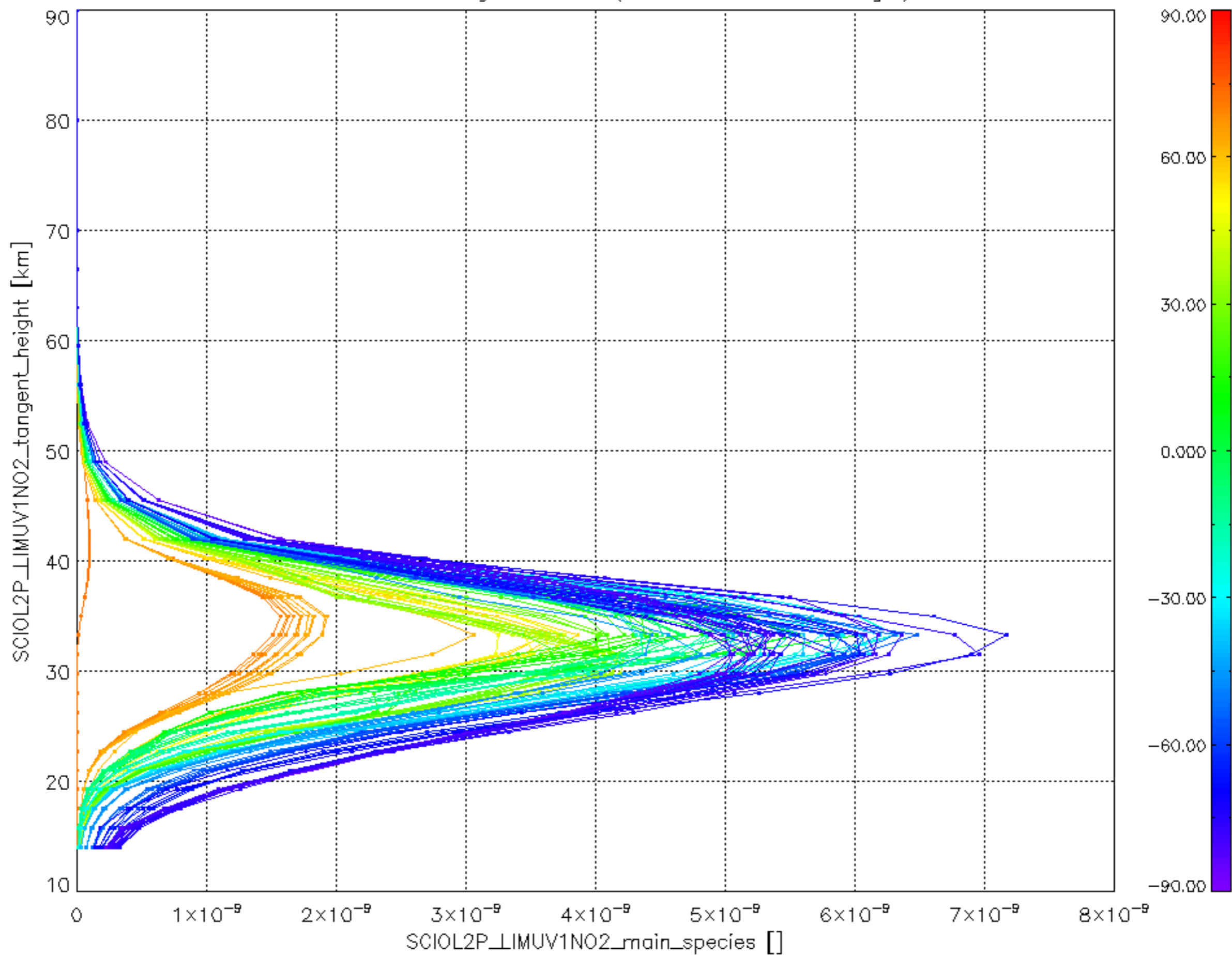
SCIOL2P_NADIR3CO_vcd_err for 29JAN2012 00:00:00 to 30JAN2012 00:00:00



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).

