

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	01APR2012 03:28:22
Data source version	SCIA-OL/5.02-W
Processing scope for products	19MAR2012 00:00:00 to 20MAR2012 00:00:00
Start time of first product within scope	18MAR2012 23:35:02
Stop time of last product within scope	19MAR2012 23:57:02
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__2PWDPA20120318_233502_000035303112_00404_52573_4053.N1	18MAR2012 23:35:02	19MAR2012 00:33:53	0	GOOD
1	SCI_OL__2PWDPA20120319_011516_000035163112_00405_52574_4058.N1	19MAR2012 01:15:16	19MAR2012 02:13:52	0	GOOD
2	SCI_OL__2PWDPA20120319_025529_000035303112_00406_52575_4054.N1	19MAR2012 02:55:29	19MAR2012 03:54:20	0	GOOD
3	SCI_OL__2PWDPA20120319_043543_000035163112_00407_52576_4055.N1	19MAR2012 04:35:43	19MAR2012 05:34:19	0	GOOD
4	SCI_OL__2PWDPA20120319_061556_000035303112_00408_52577_4057.N1	19MAR2012 06:15:56	19MAR2012 07:14:47	0	GOOD

5	SCI_OL__2PWDP	A20120319_075610_000035163112_00409_52578_4056.N1	19MAR2012 07:56:10	19MAR2012 08:54:46	0	GOOD
6	SCI_OL__2PWDP	A20120319_093623_000035303112_00410_52579_4061.N1	19MAR2012 09:36:23	19MAR2012 10:35:14	0	GOOD
7	SCI_OL__2PWDP	A20120319_111637_000035163112_00411_52580_4059.N1	19MAR2012 11:16:37	19MAR2012 12:15:13	0	GOOD
8	SCI_OL__2PWDP	A20120319_125650_000035303112_00412_52581_4060.N1	19MAR2012 12:56:50	19MAR2012 13:55:41	0	GOOD
9	SCI_OL__2PWDP	A20120319_143704_000035163112_00413_52582_4063.N1	19MAR2012 14:37:04	19MAR2012 15:35:40	0	GOOD
10	SCI_OL__2PWDP	A20120319_161717_000035303112_00414_52583_4062.N1	19MAR2012 16:17:17	19MAR2012 17:16:08	0	GOOD
11	SCI_OL__2PWDP	A20120319_175830_000034823112_00415_52584_4065.N1	19MAR2012 17:58:30	19MAR2012 18:56:32	0	GOOD
12	SCI_OL__2PWDP	A20120319_193801_000035303112_00416_52585_4064.N1	19MAR2012 19:38:01	19MAR2012 20:36:51	0	GOOD
13	SCI_OL__2PWDP	A20120319_211758_000035163112_00417_52586_4066.N1	19MAR2012 21:17:58	19MAR2012 22:16:34	0	GOOD
14	SCI_OL__2PWDP	A20120319_225811_000035303112_00418_52587_4067.N1	19MAR2012 22:58:11	19MAR2012 23:57:02	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: 164840

Total number of cloud data DSRs with good quality flag (=0): 164840 (100.0 %)

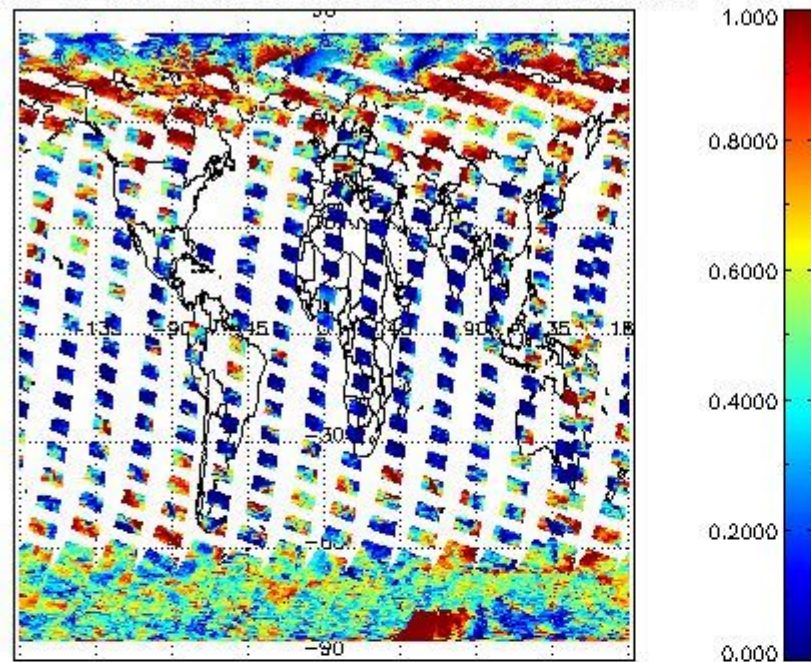
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	164840	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	164840	0.16601	0.12500	0.12500	0.25000	0.058689	s
CL_FRAC	164840	0.47389	0.45179	0.0000	1.0000	0.33276	
CL_FRAC_ERR	164840	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	164840	5.3123	4.0000	4.0000	8.0000	1.8781	
PMD_READ_CL[0]	164840	0.72036	0.0000	0.0000	8.0000	1.6266	-
PMD_READ_CL[1]	164840	1.1406	0.0000	0.0000	8.0000	2.4549	-
CL_TOP_HEIGHT	133730	3.5903	1.9024	0.0000	17.000	3.8891	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	133730	61.431	73.051	0.0000	101.00	40.955	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	164840	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	164840	11001011	11000100	11000000	11100000	3414.0	
AERO_ABSO_IND	164840	0.095011	0.0000	0.0000	6.6515	0.33874	
AERO_IND_DIAG	164840	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	164840	01010101	00000000	00000000	11000000	24430.	

Time and geolocation plots:

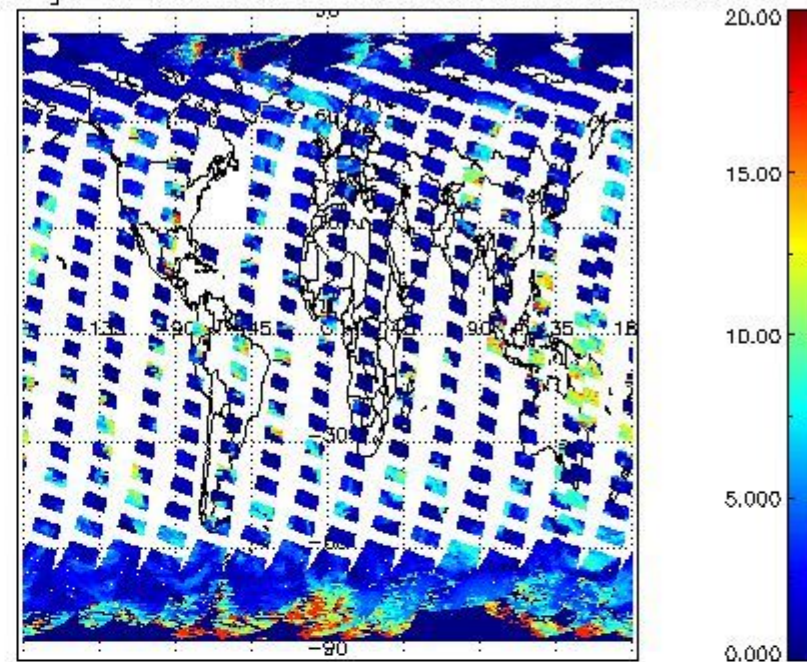
Plots are available for the following parameters:

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

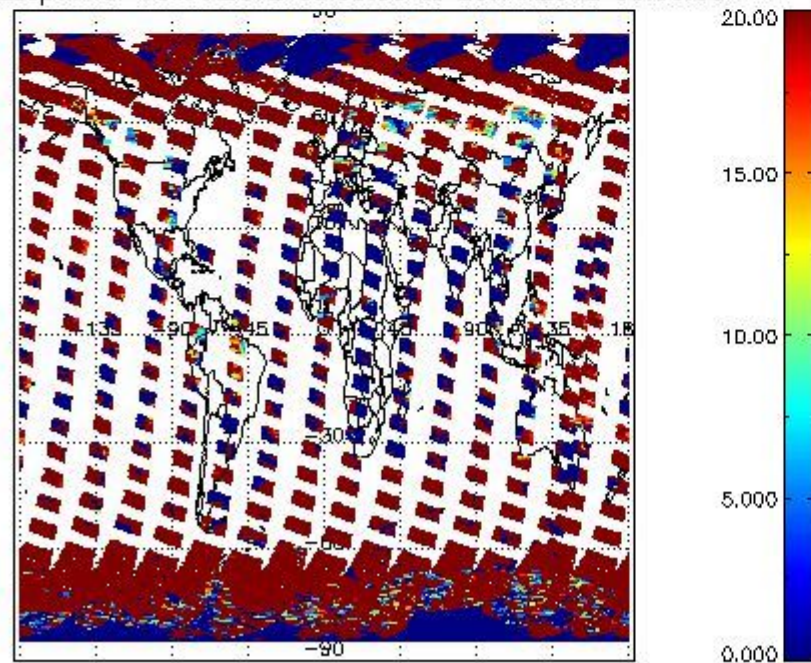
cL_frac for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



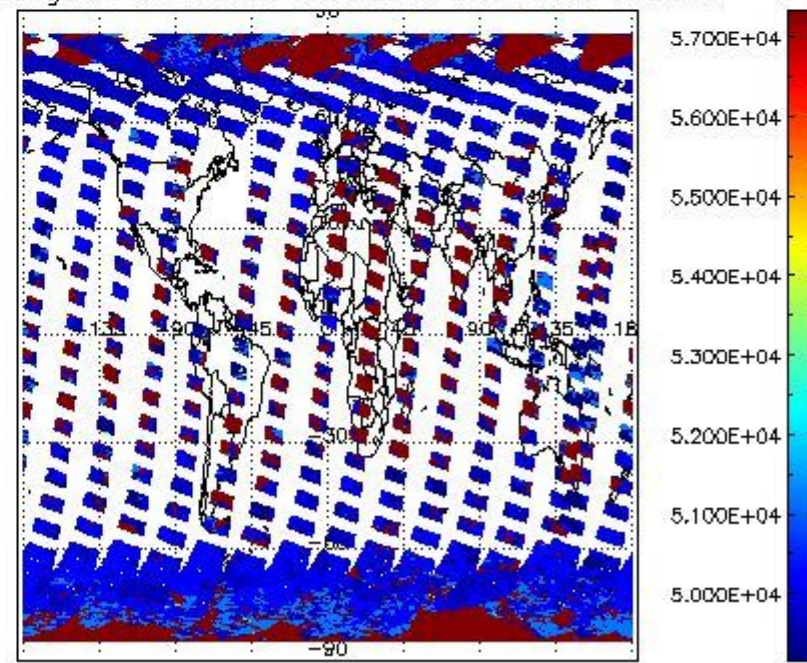
cL_top_height for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



cL_opt_depth for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



cloud_flags for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



2.2.2 Nadir

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

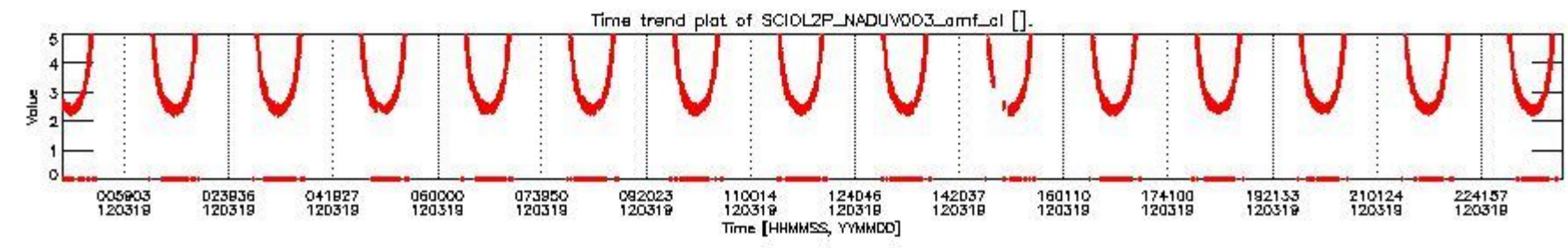
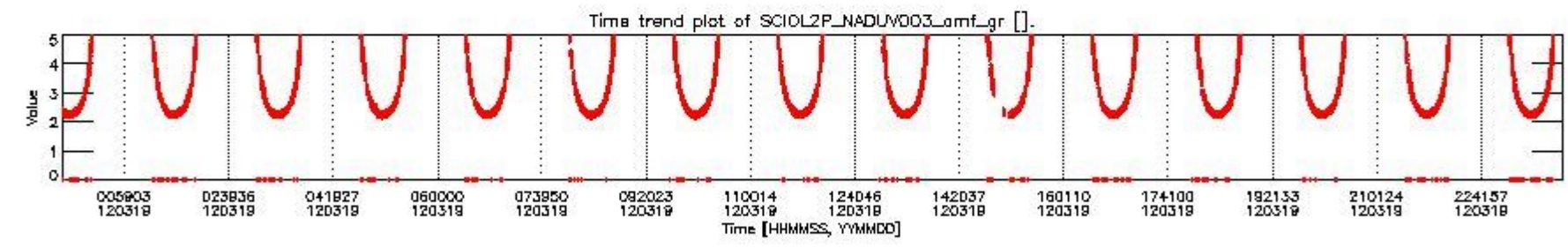
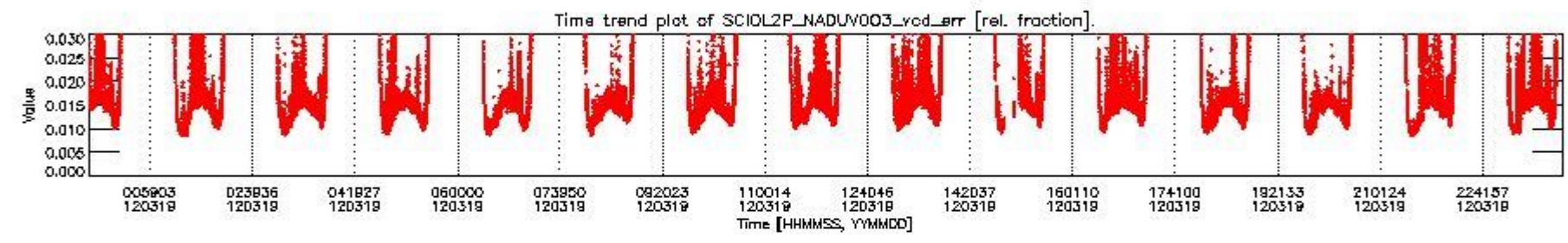
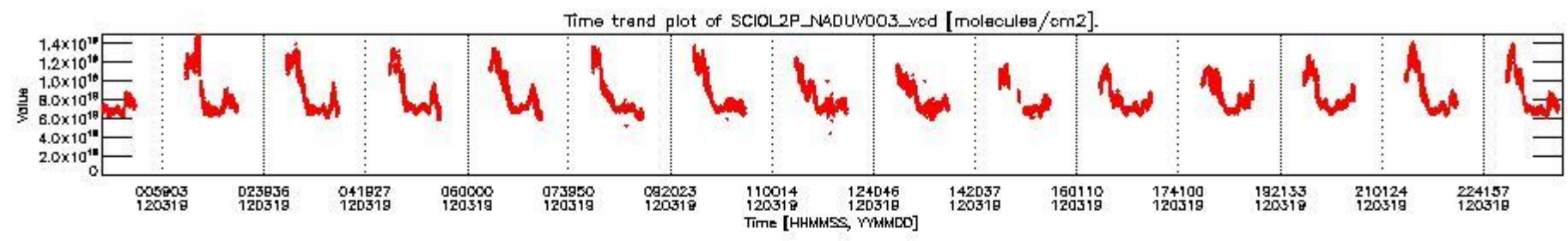
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

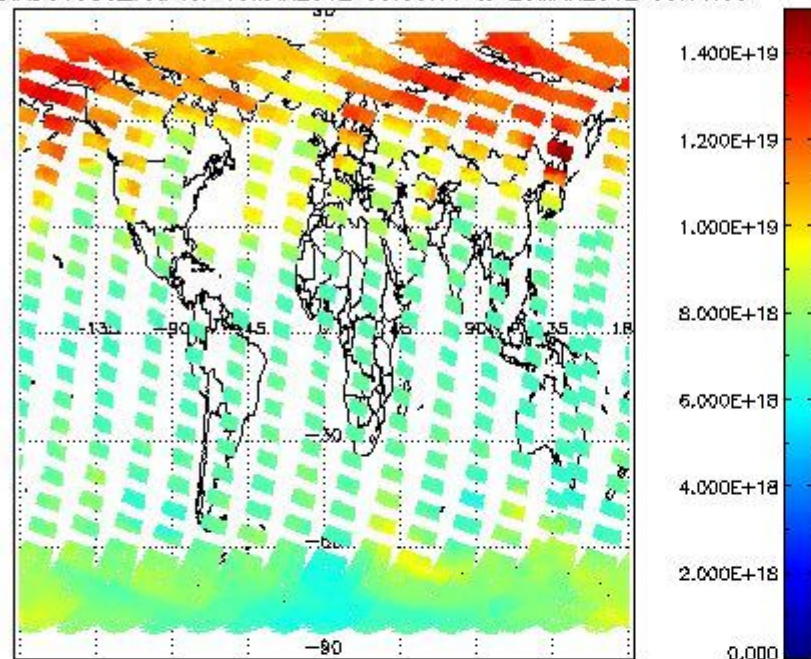
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

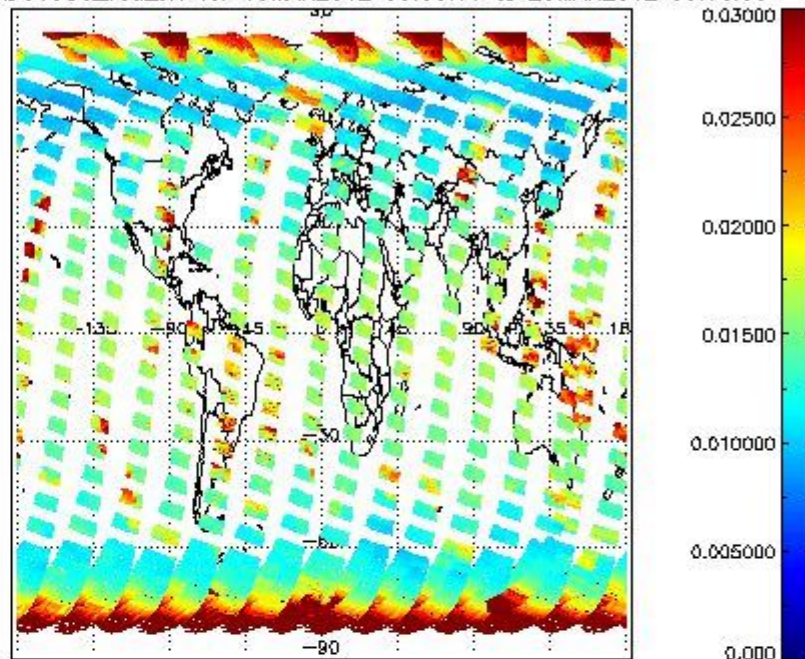
[2.2.2.1 O3 \(UV0\)](#)



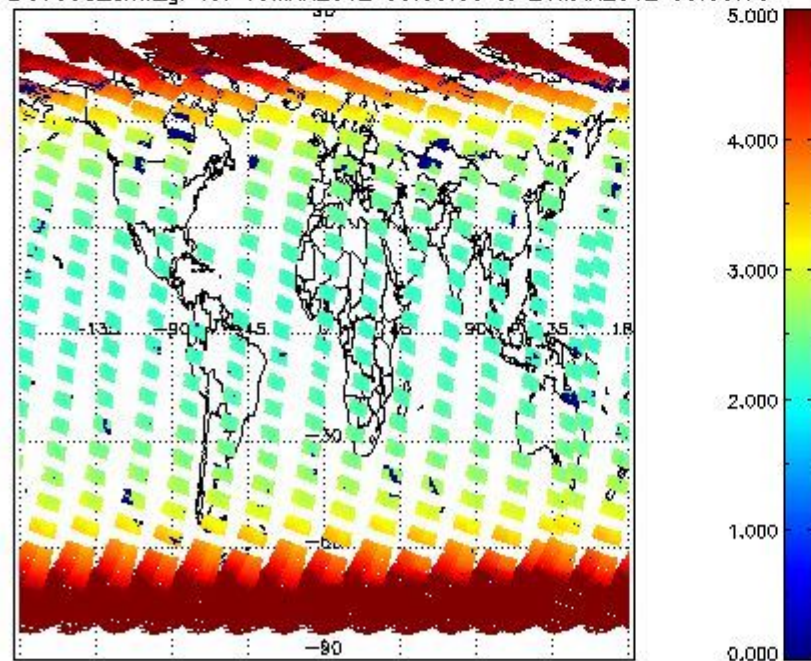
SCIOL2P_NADUV003_vcd for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



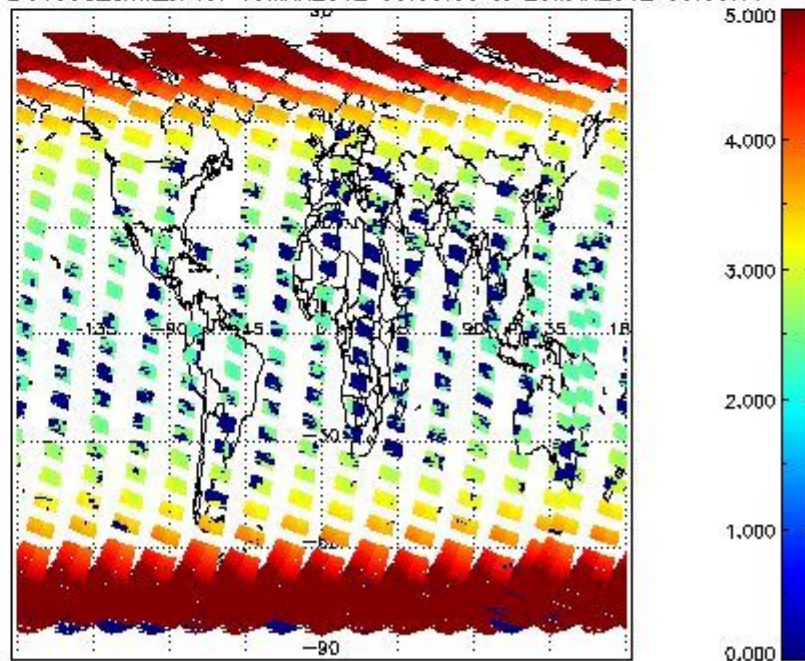
SCIOL2P_NADUV003_vcd_err for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



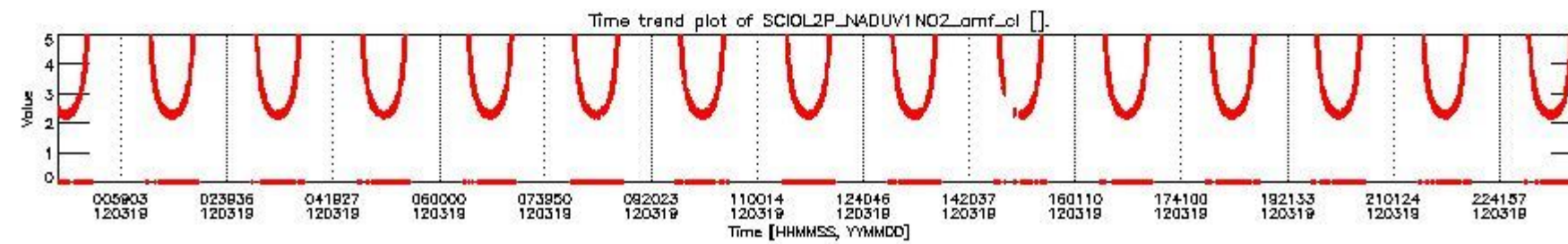
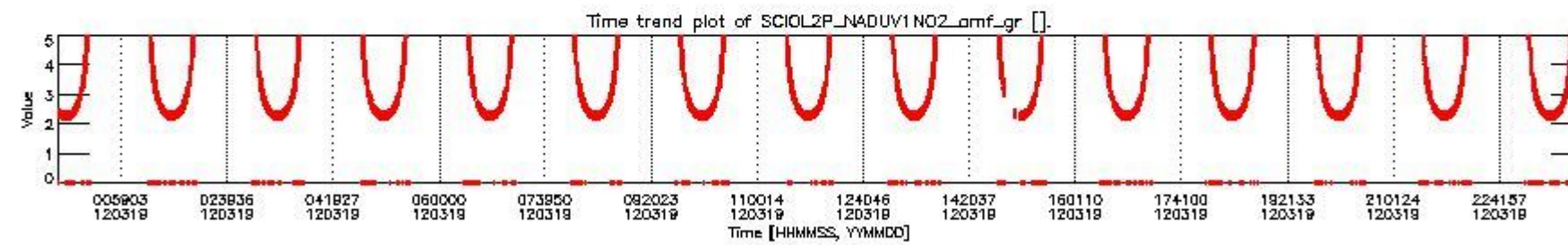
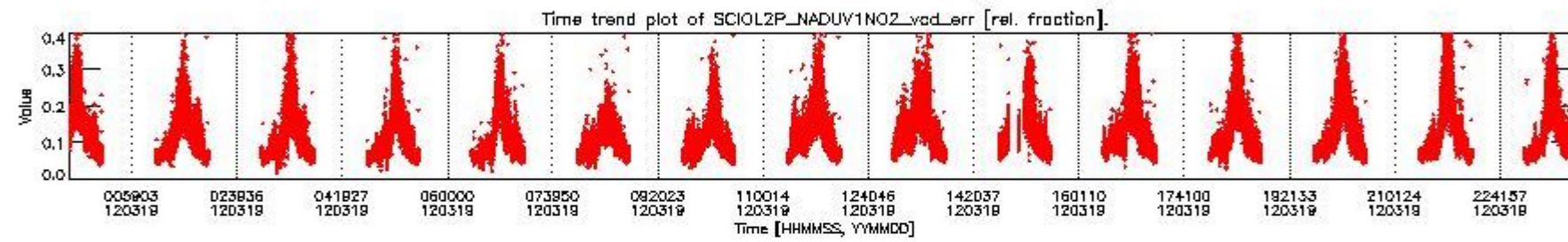
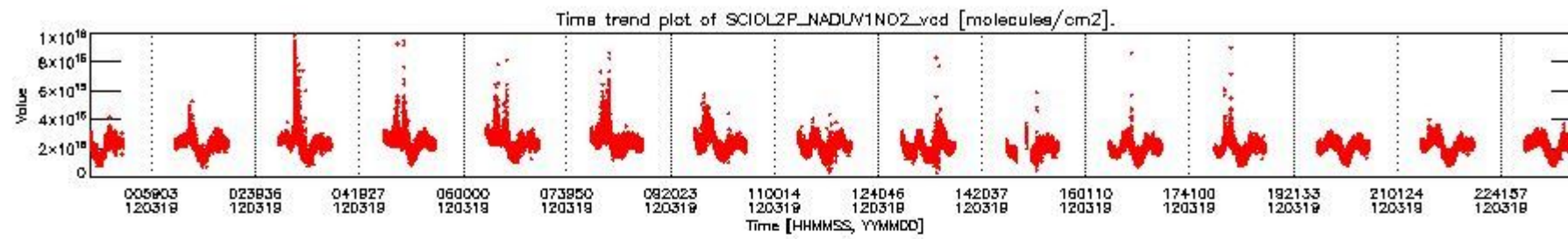
SCIOL2P_NADUV003_amf_gr for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



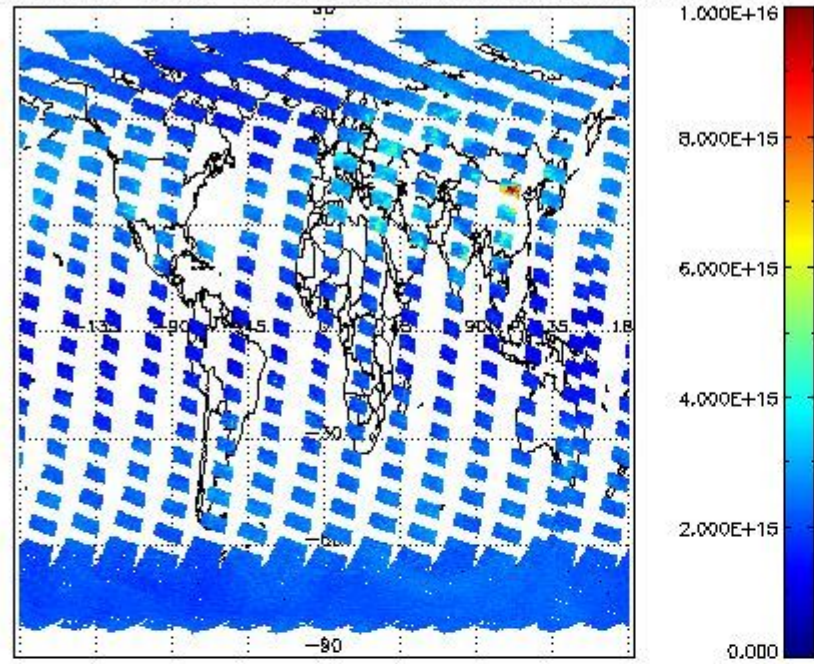
SCIOL2P_NADUV003_amf_cl for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



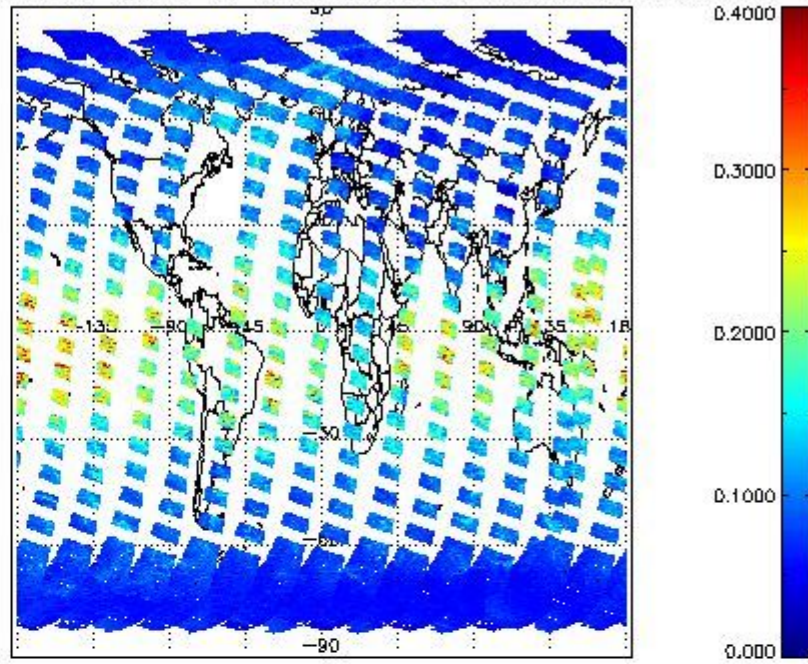
2.2.2.2 NO2 (UV1)



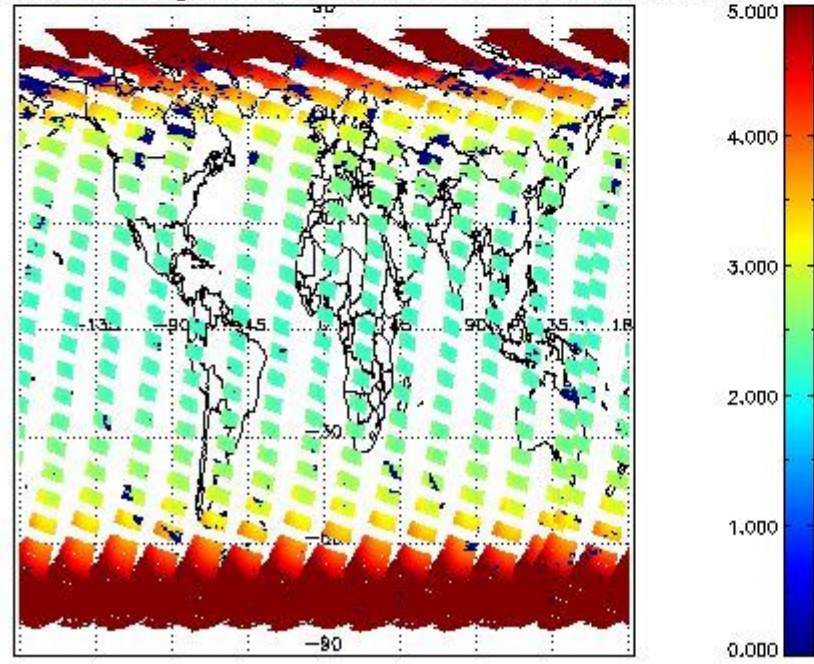
SCIOL2P_NADUV1NO2_vcd for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



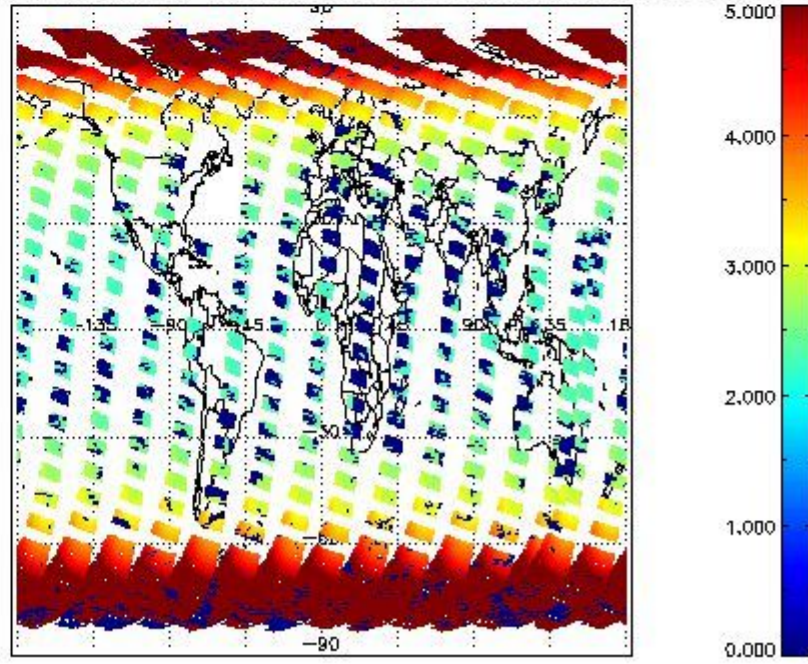
SCIOL2P_NADUV1NO2_vcd_err for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



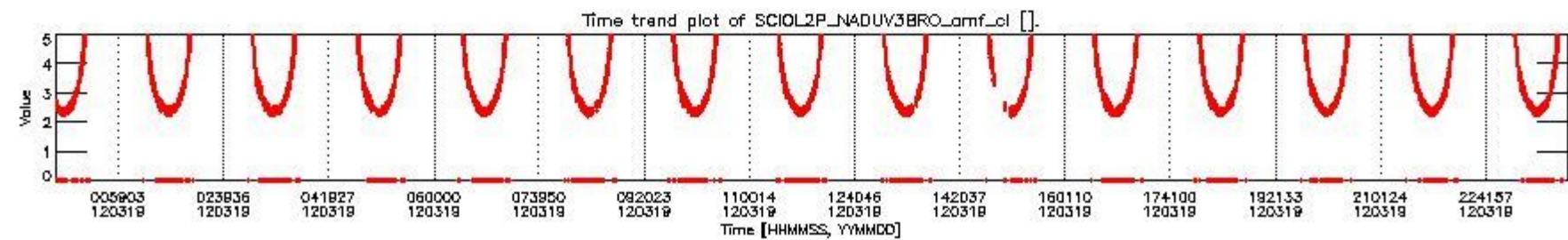
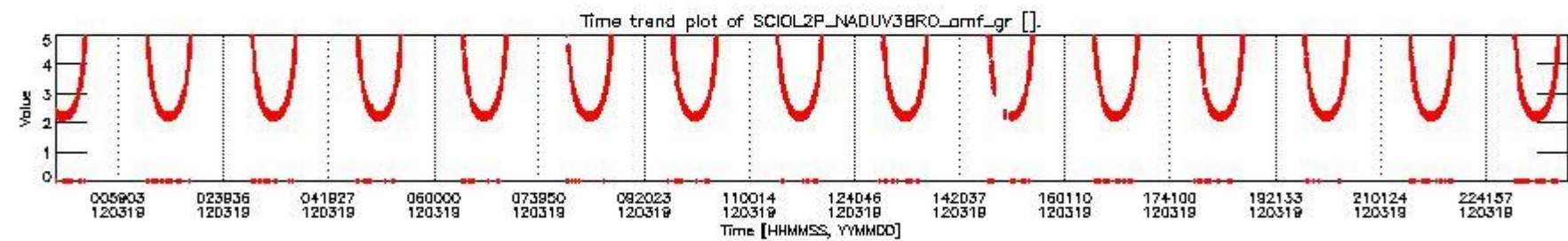
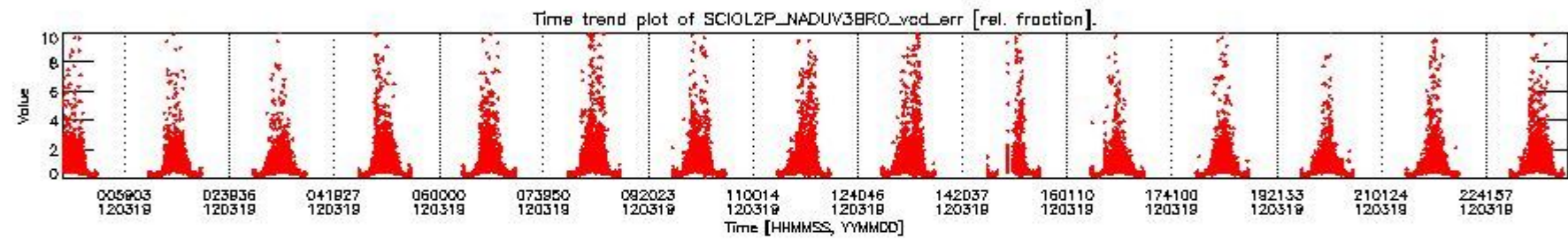
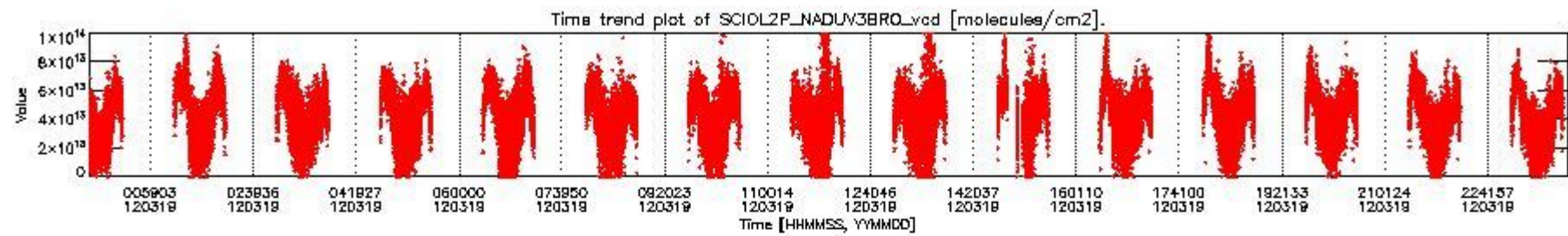
SCIOL2P_NADUV1NO2_amf_gr for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



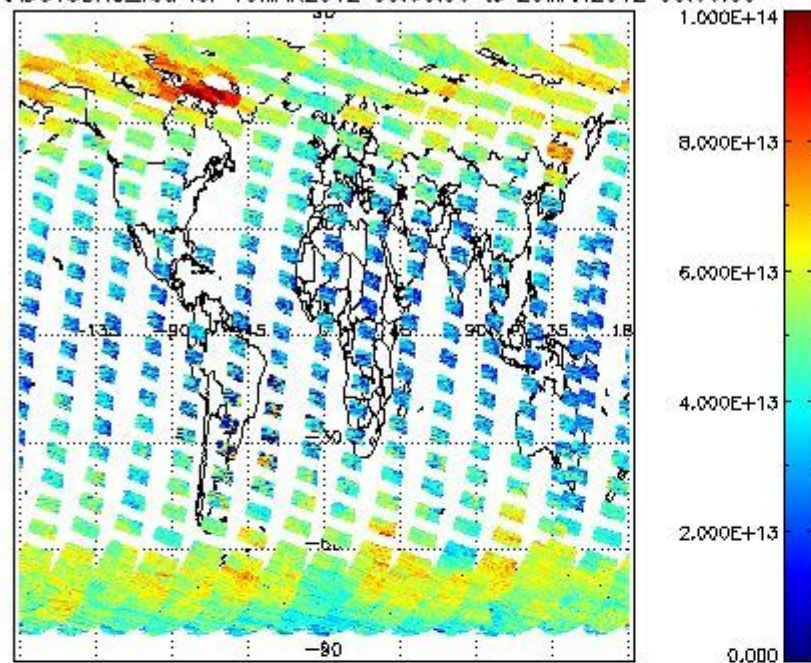
SCIOL2P_NADUV1NO2_amf_cl for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



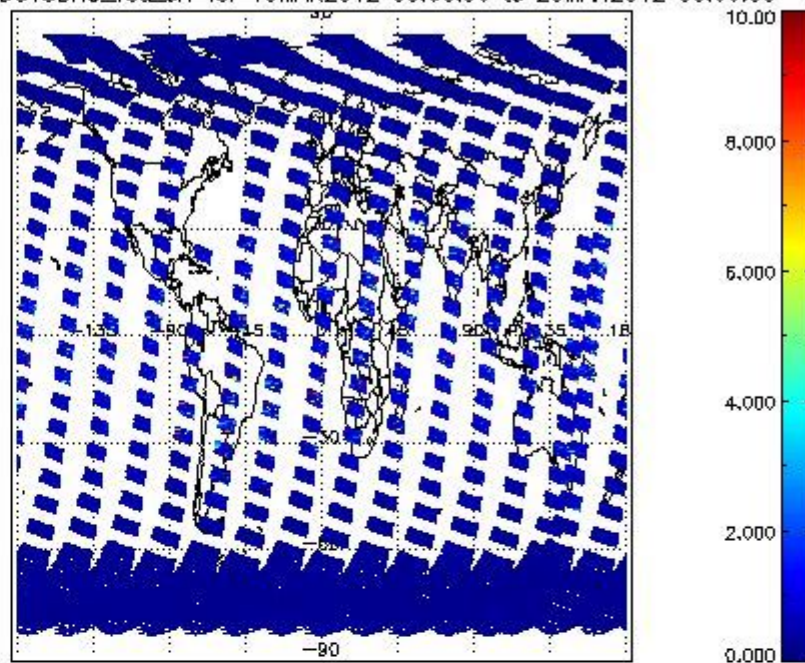
2.2.2.3 BrO (UV3)



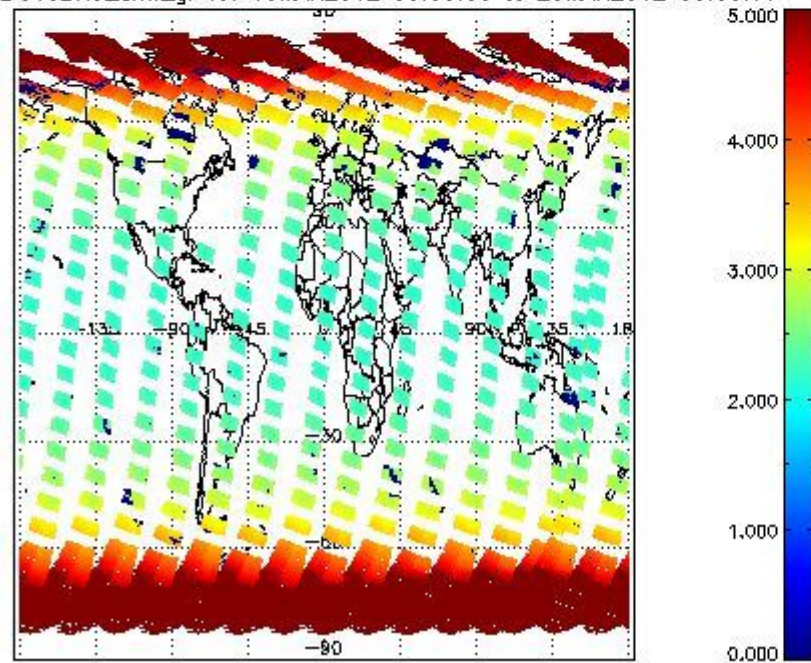
SCIOL2P_NADUV3BRO_vcd for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



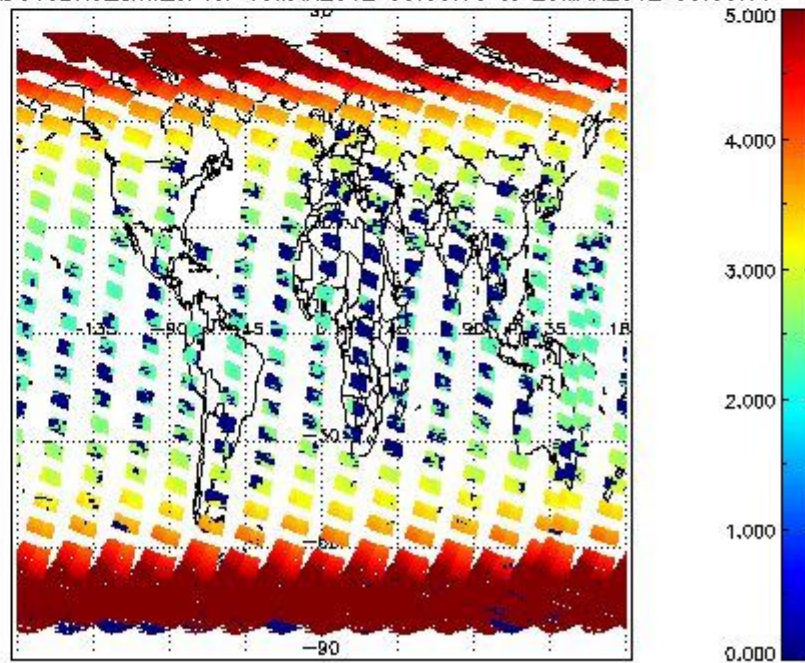
SCIOL2P_NADUV3BRO_vcd_err for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



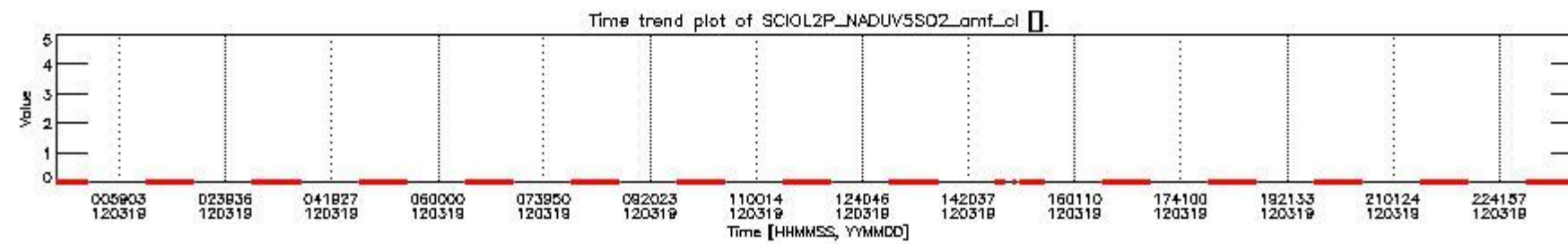
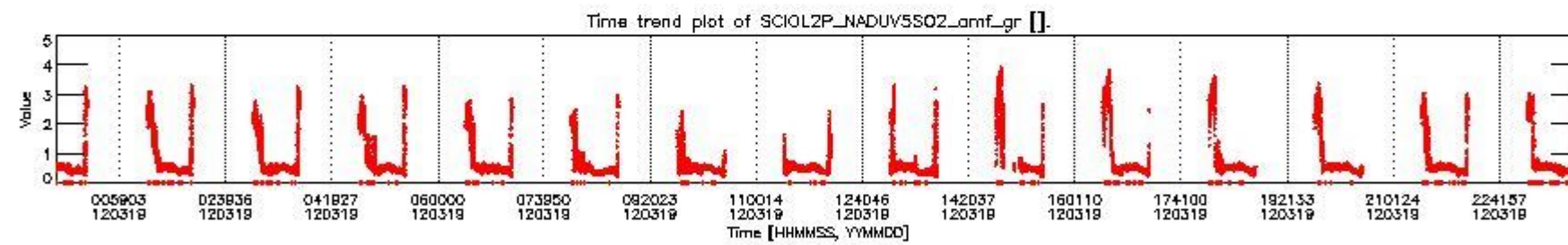
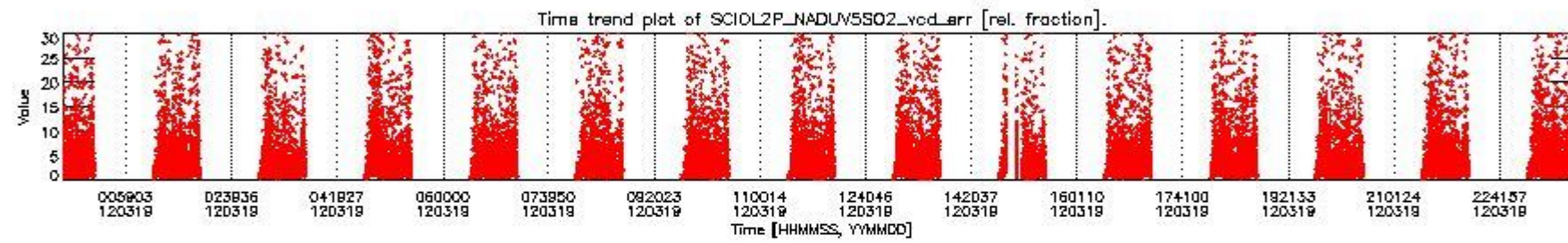
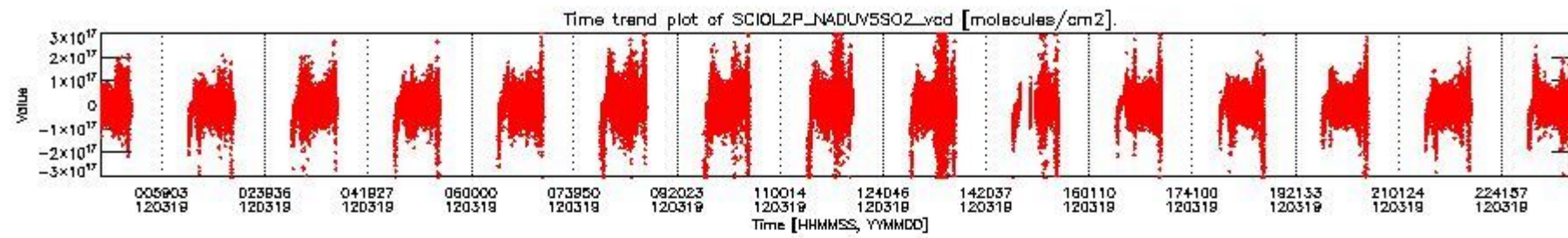
SCIOL2P_NADUV3BRO_amf_gr for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



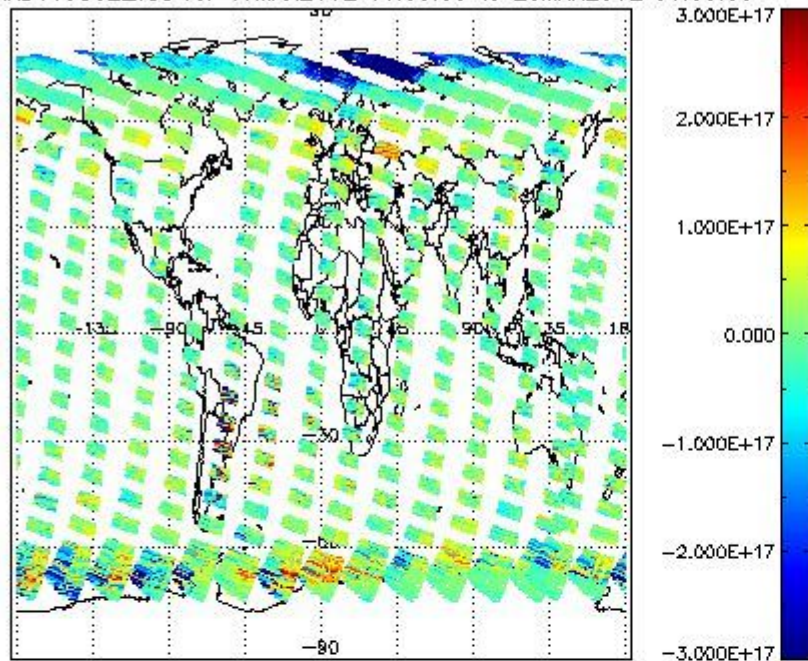
SCIOL2P_NADUV3BRO_amf_cl for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



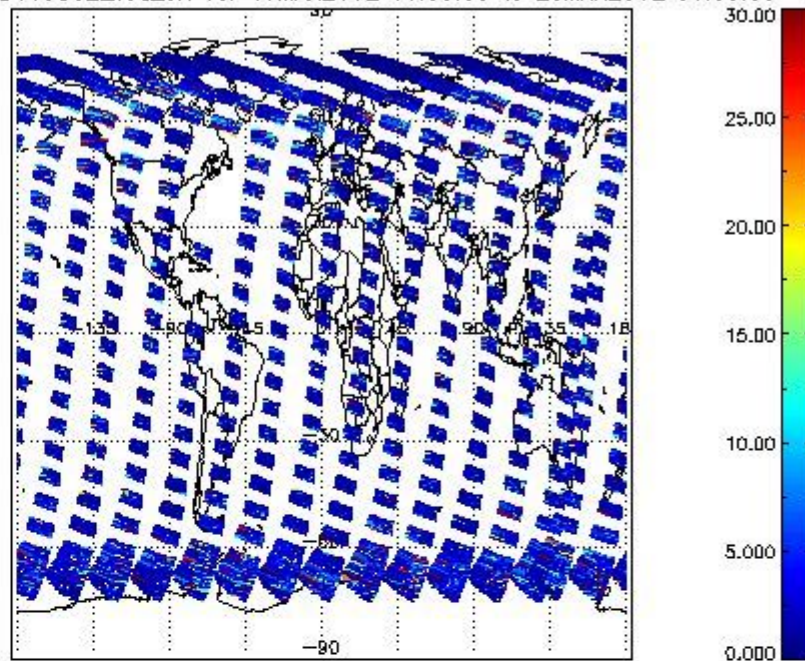
2.2.2.4 SO2 (UV5)



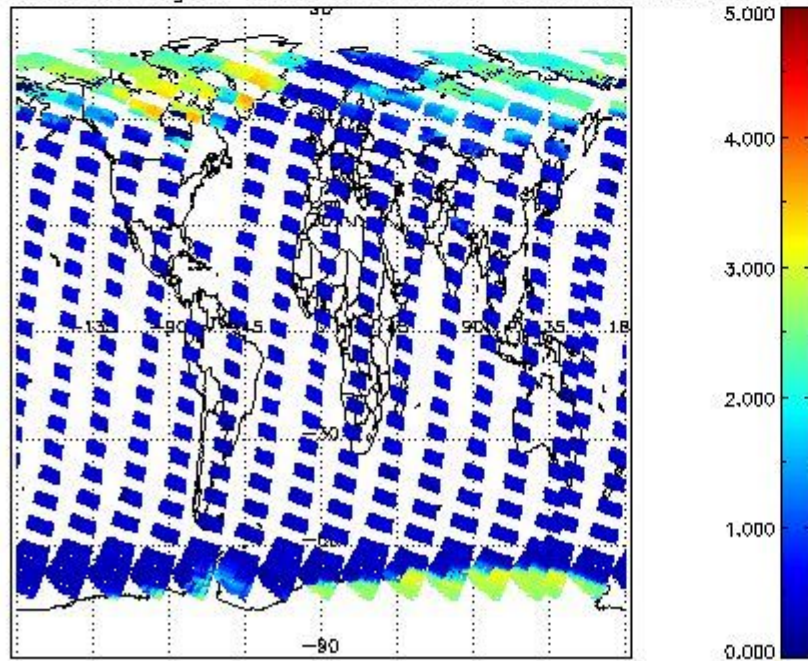
SCIOL2P_NADUV5SO2_vcd for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



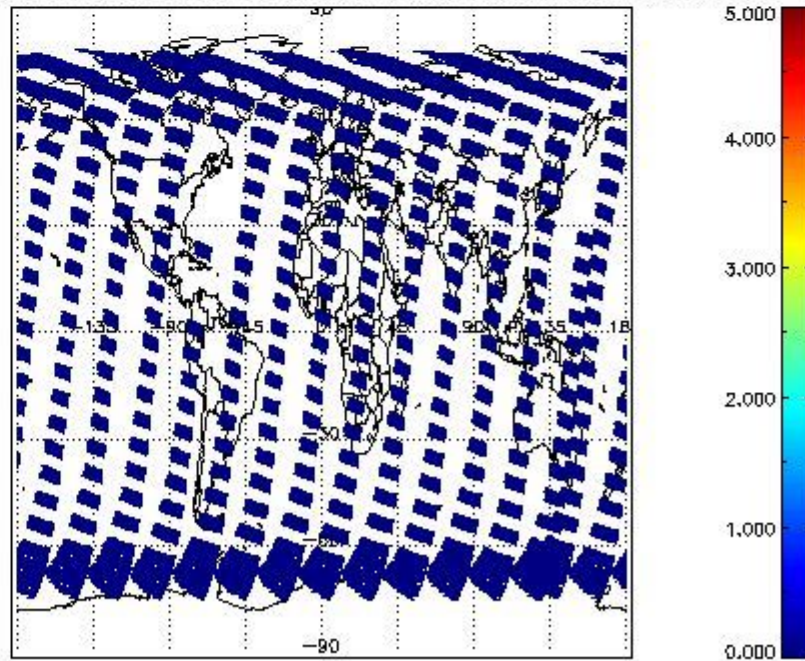
SCIOL2P_NADUV5SO2_vcd_err for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



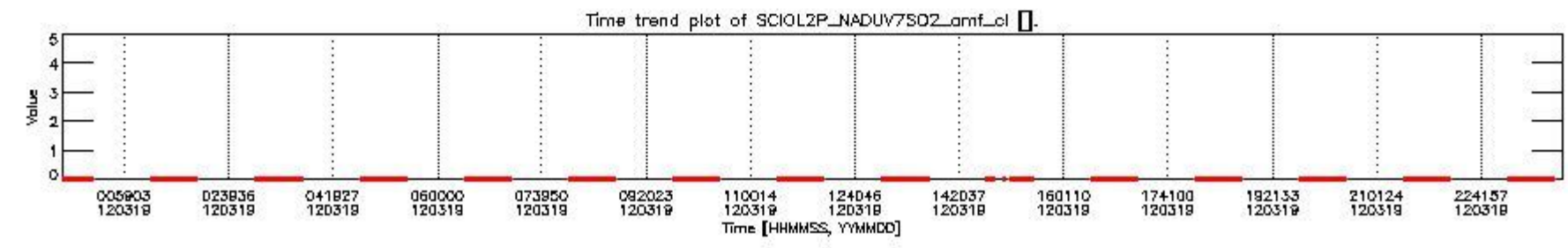
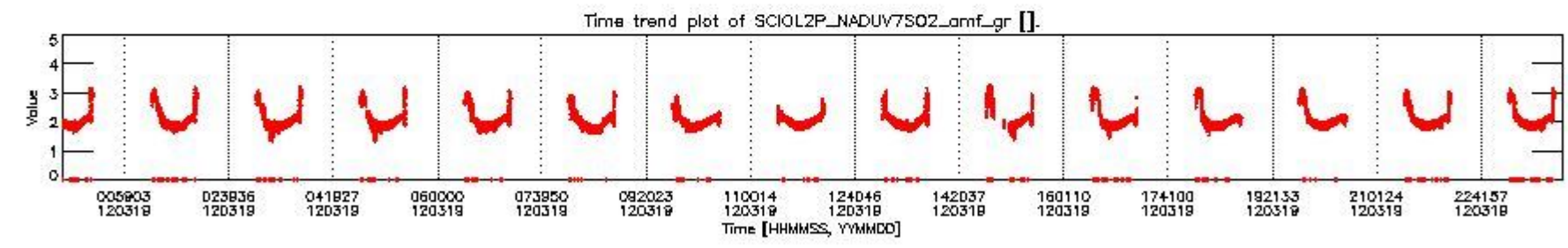
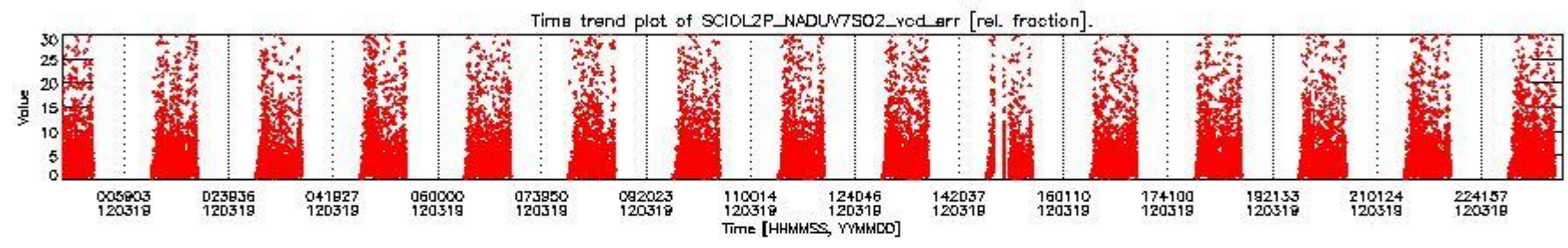
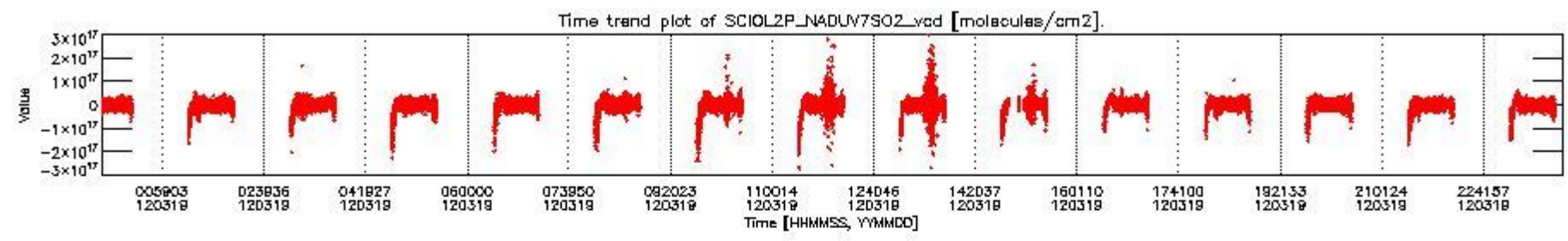
SCIOL2P_NADUV5SO2_amf_gr for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



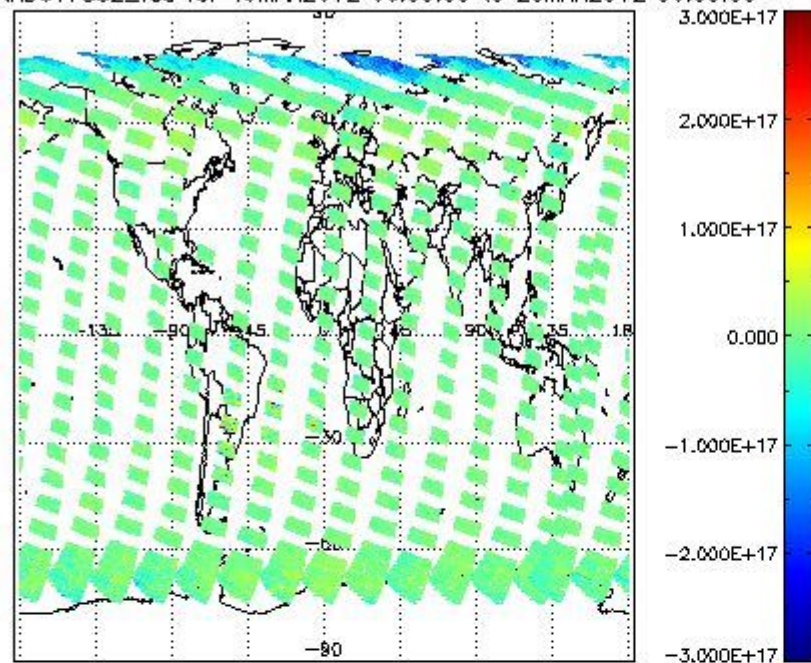
SCIOL2P_NADUV5SO2_amf_cl for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



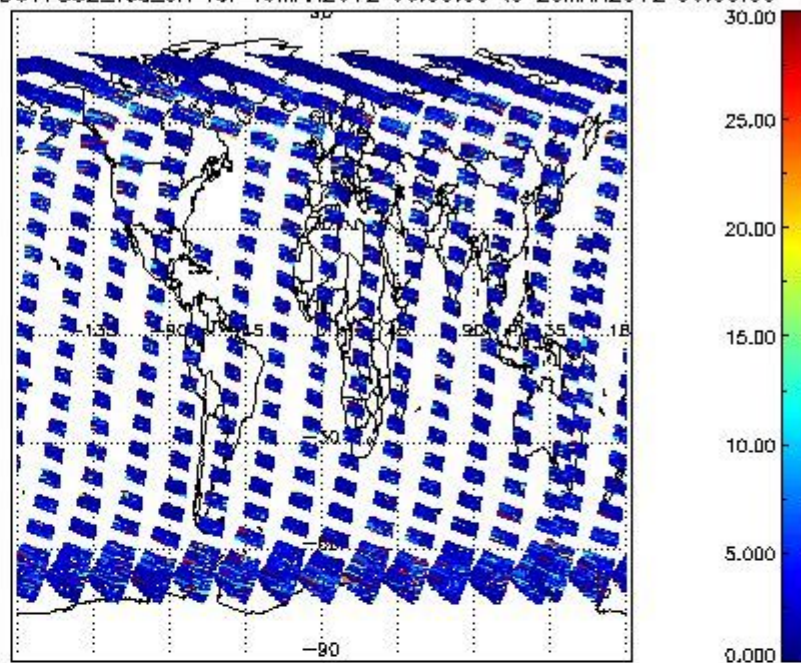
2.2.2.5 SO2 (UV7)



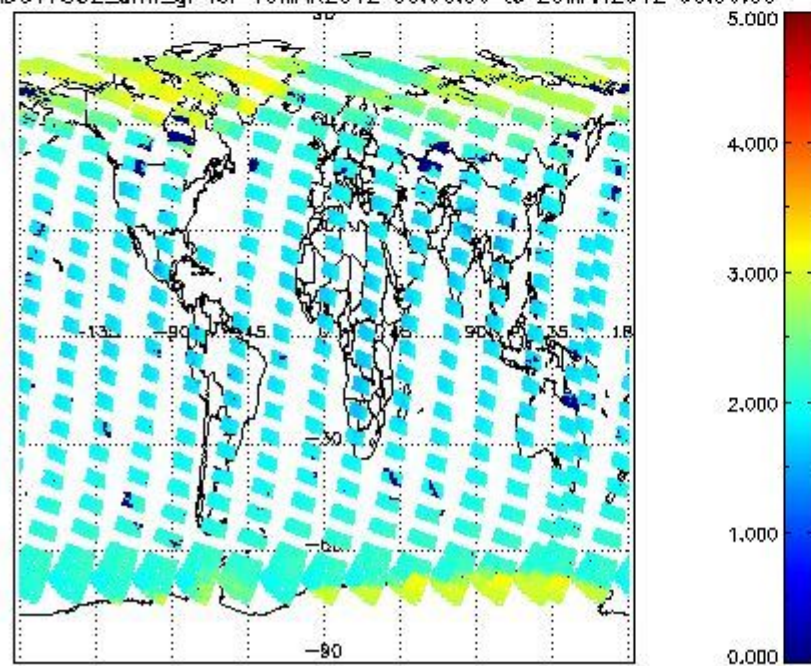
SCIOL2P_NADUV7S02_vcd for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



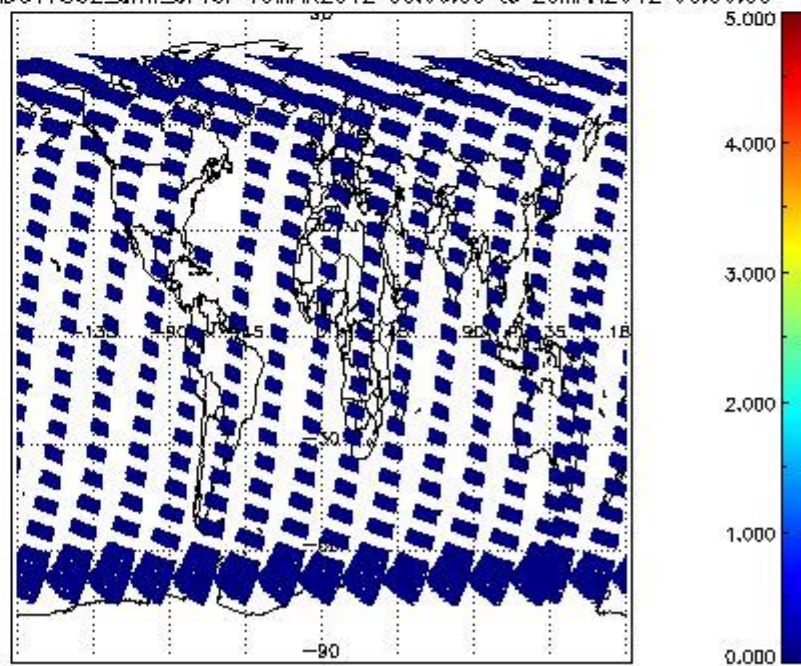
SCIOL2P_NADUV7S02_vcd_err for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



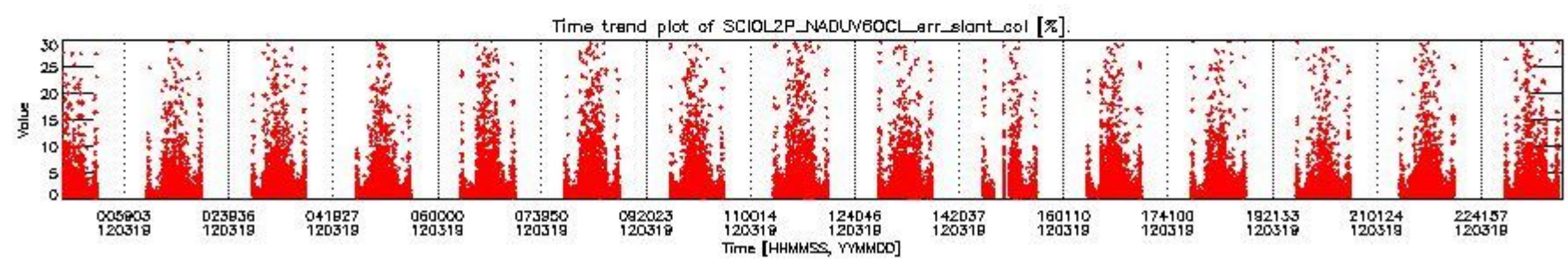
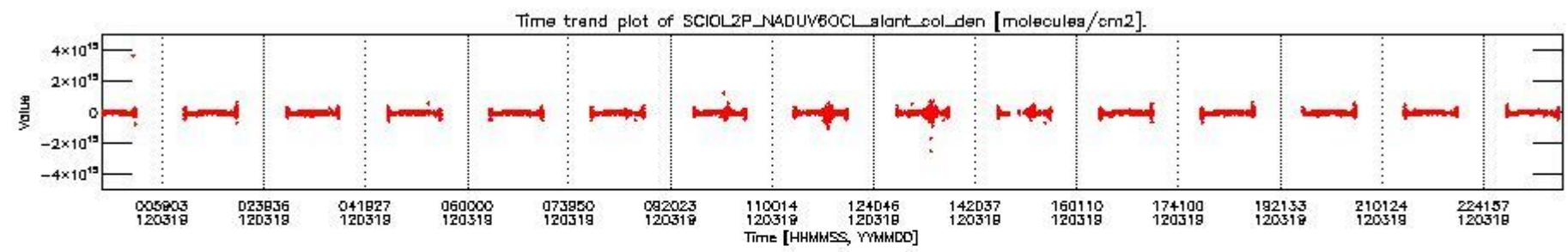
SCIOL2P_NADUV7S02_amf_gr for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



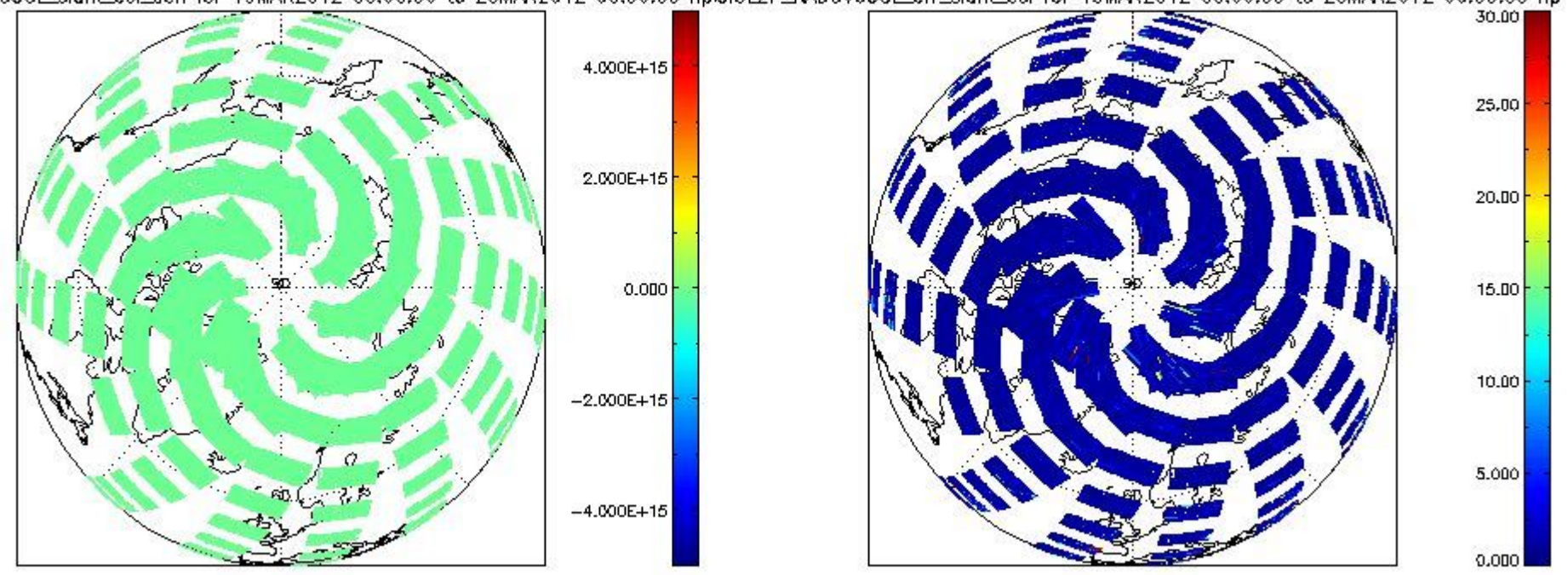
SCIOL2P_NADUV7S02_amf_cl for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



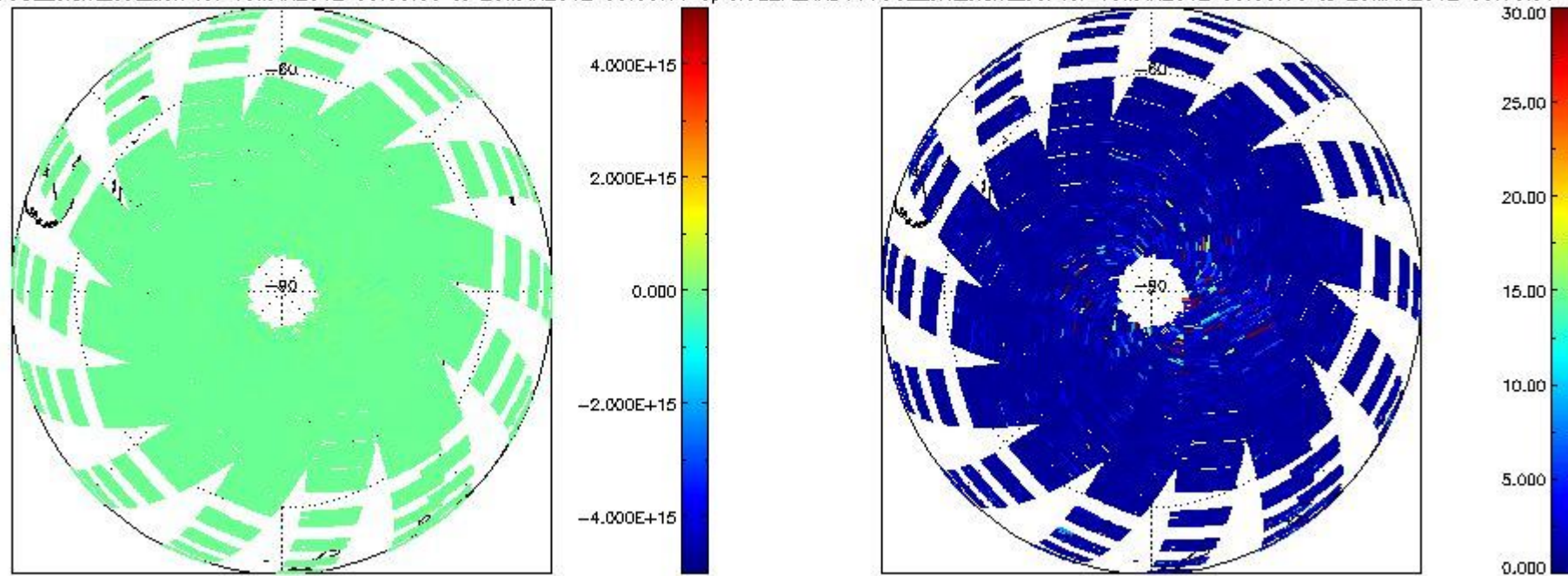
2.2.2.6 OCIO (UV6)



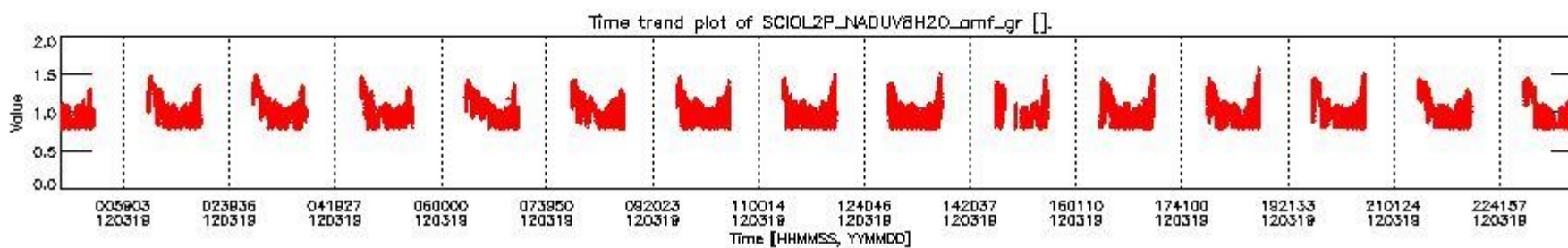
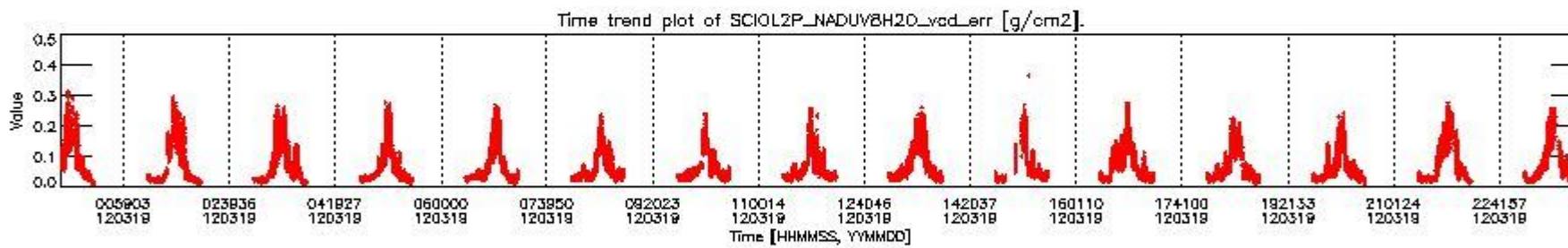
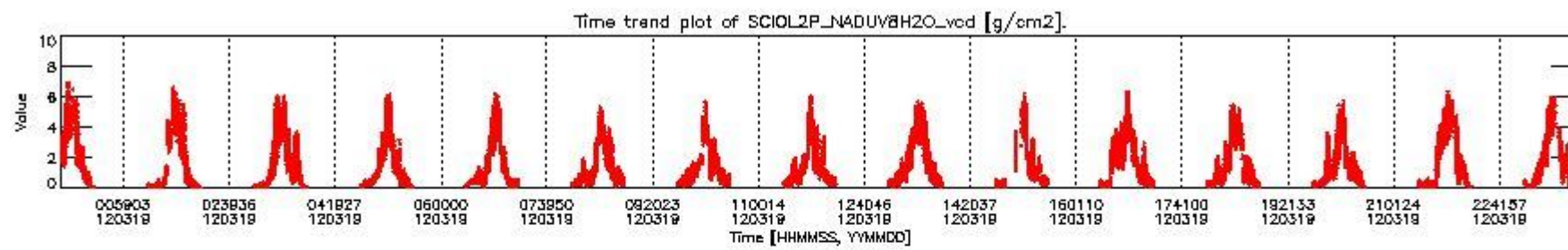
CIOL2P_NADUV6OCLslant_col_den for 19MAR2012 00:00:00 to 20MAR2012 00:00:00 npCIOL2P_NADUV6OCLerr_slant_col for 19MAR2012 00:00:00 to 20MAR2012 00:00:00 np



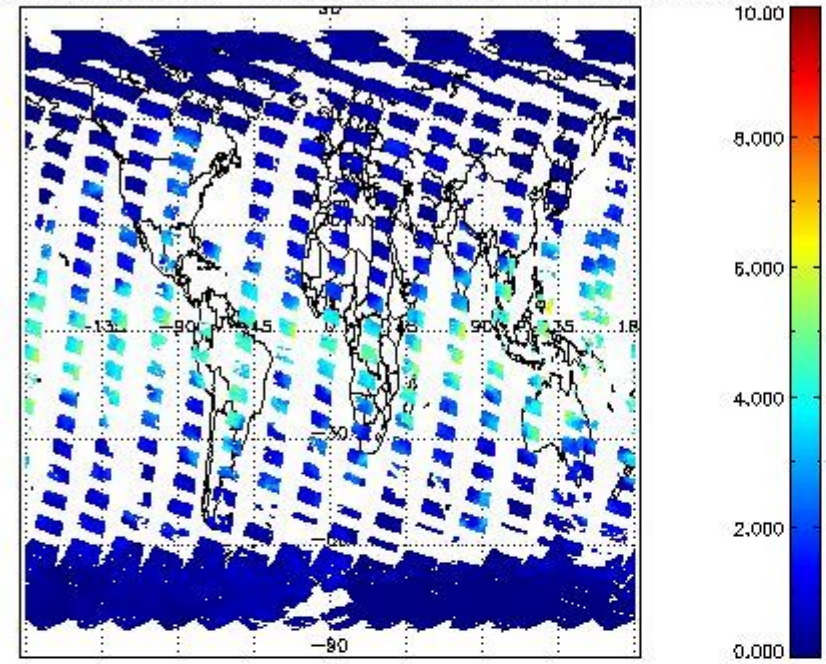
CIOL2P_NADUV6OCL_slant_coLden for 19MAR2012 00:00:00 to 20MAR2012 00:00:00 spCIOL2P_NADUV6OCL_err_slant_col for 19MAR2012 00:00:00 to 20MAR2012 00:00:00 sp



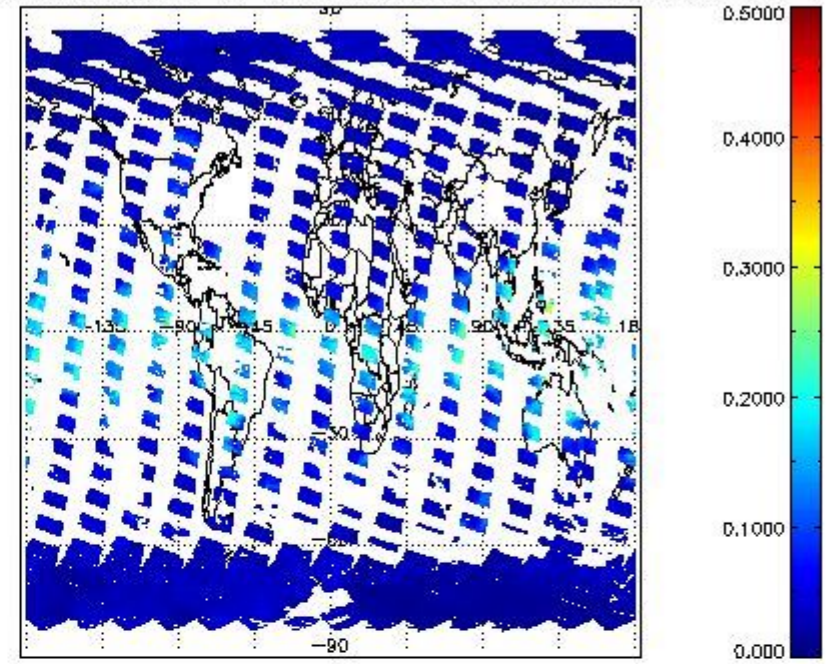
2.2.2.7 H2O (UV8)



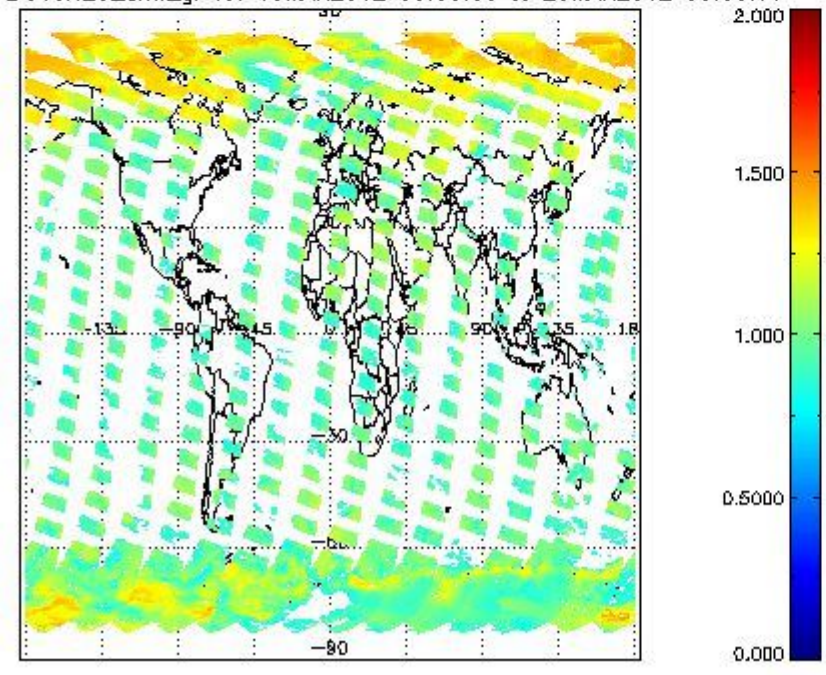
SCIOL2P_NADUV8H2O_vcd for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



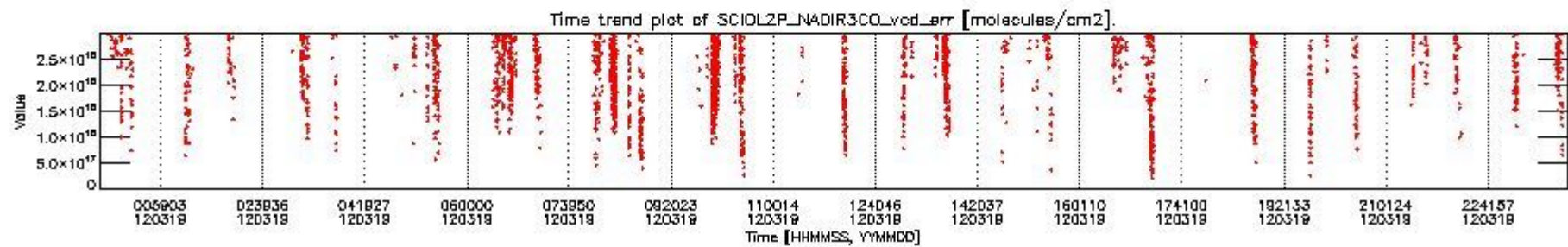
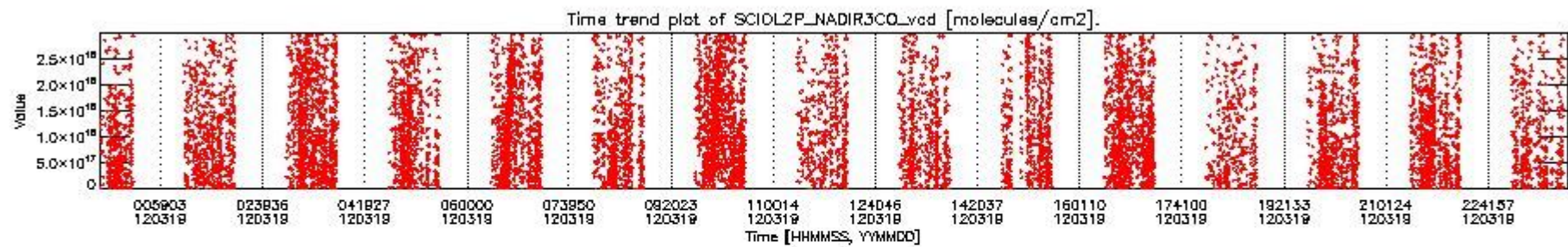
SCIOL2P_NADUV8H2O_vcd_err for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



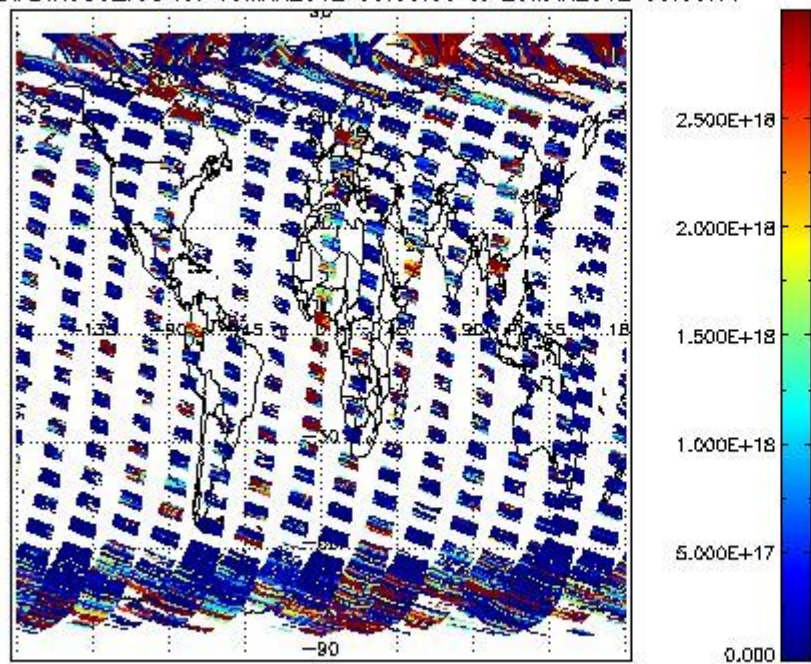
SCIOL2P_NADUV8H2O_arnf_gr for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



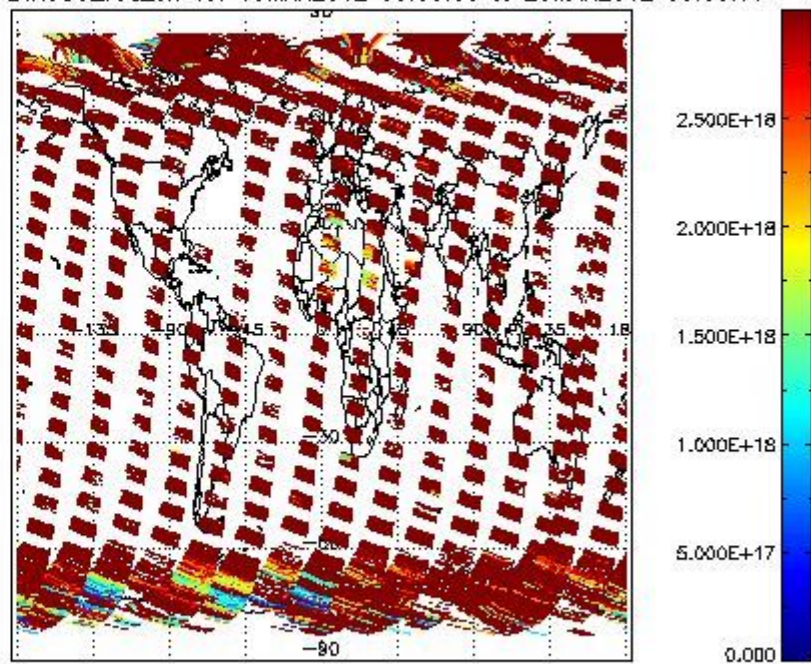
2.2.2.8 CO (IR3)



SCIDL2P_NADIR3CO_vcd for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



SCIDL2P_NADIR3CO_vcd_err for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



2.2.3 Limb

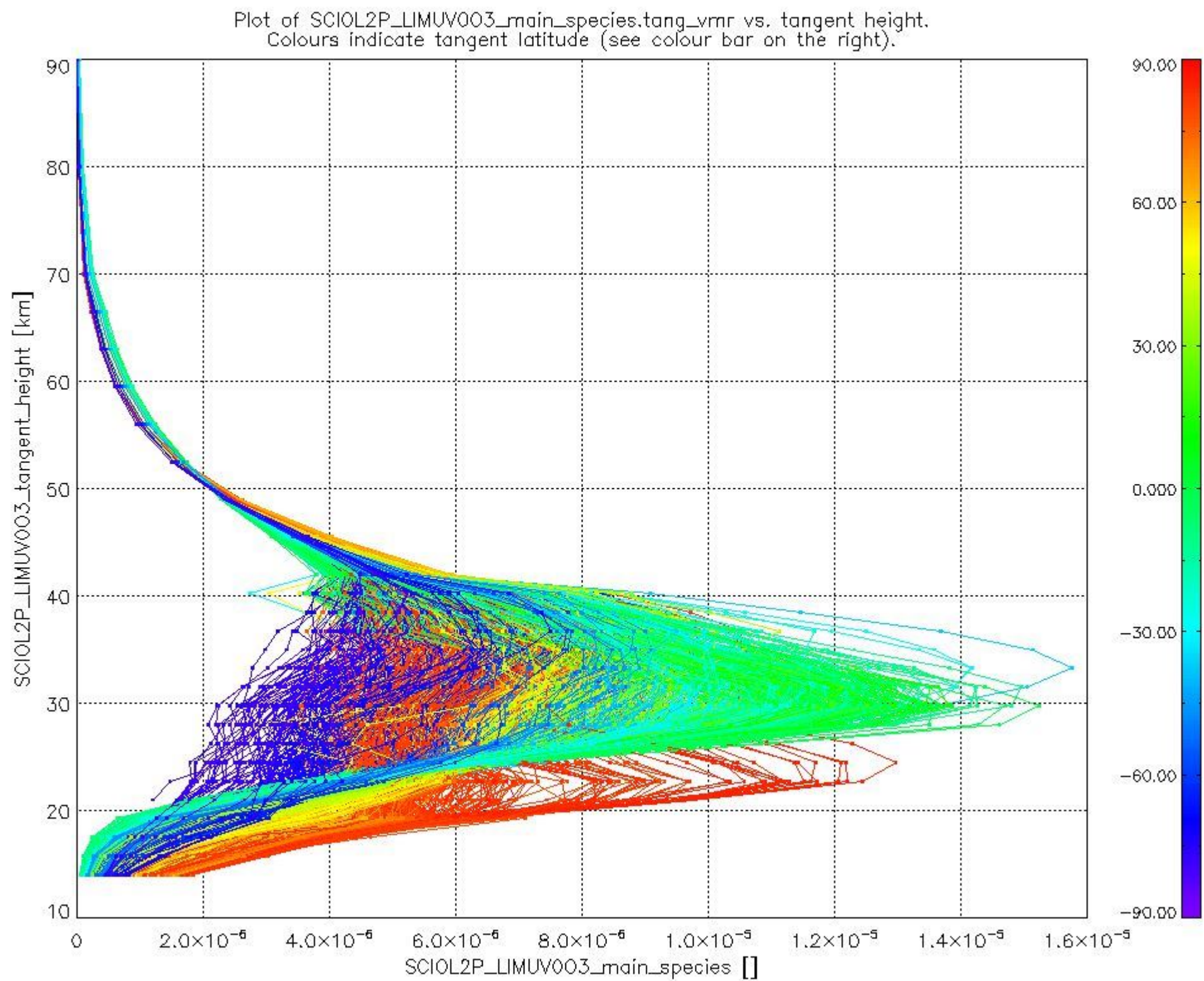
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

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

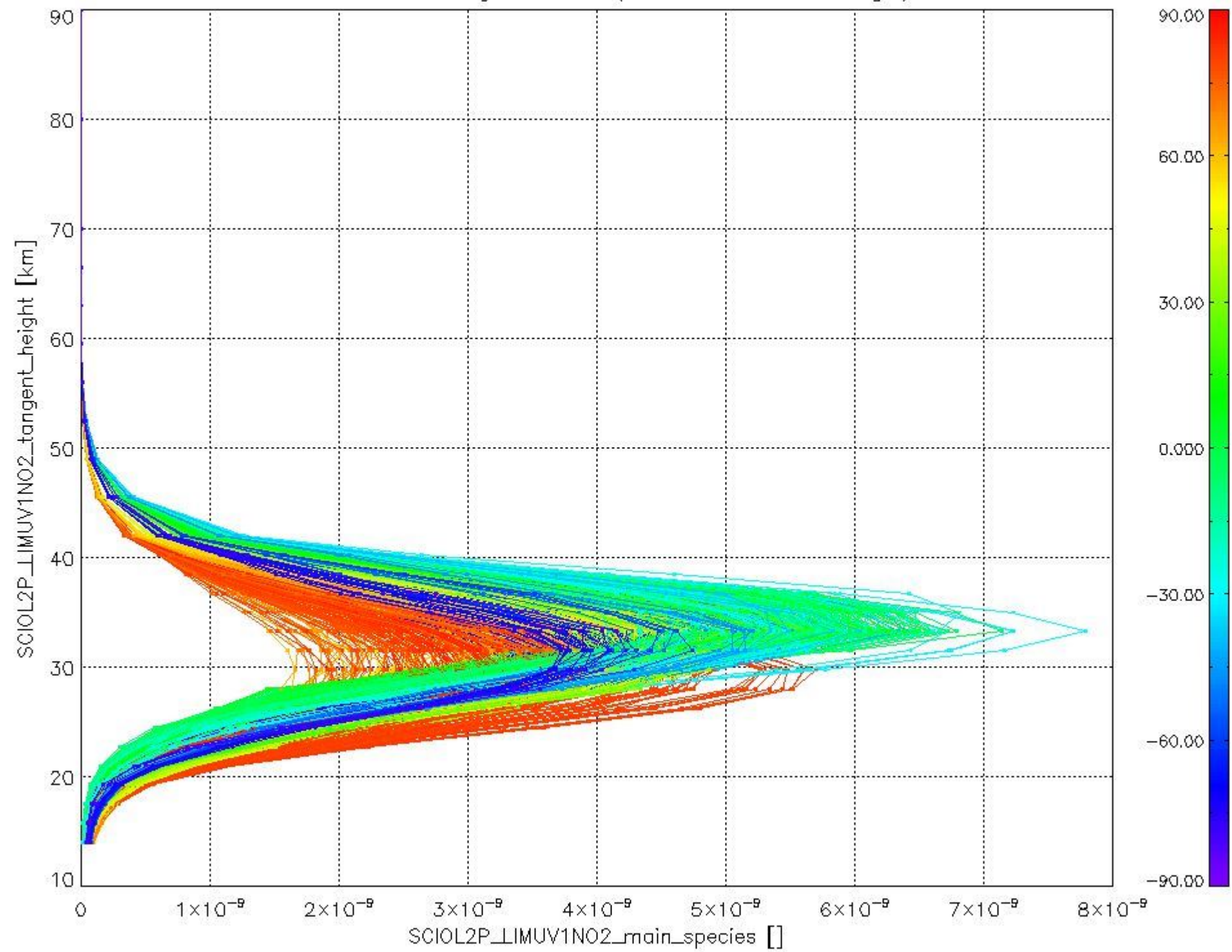
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



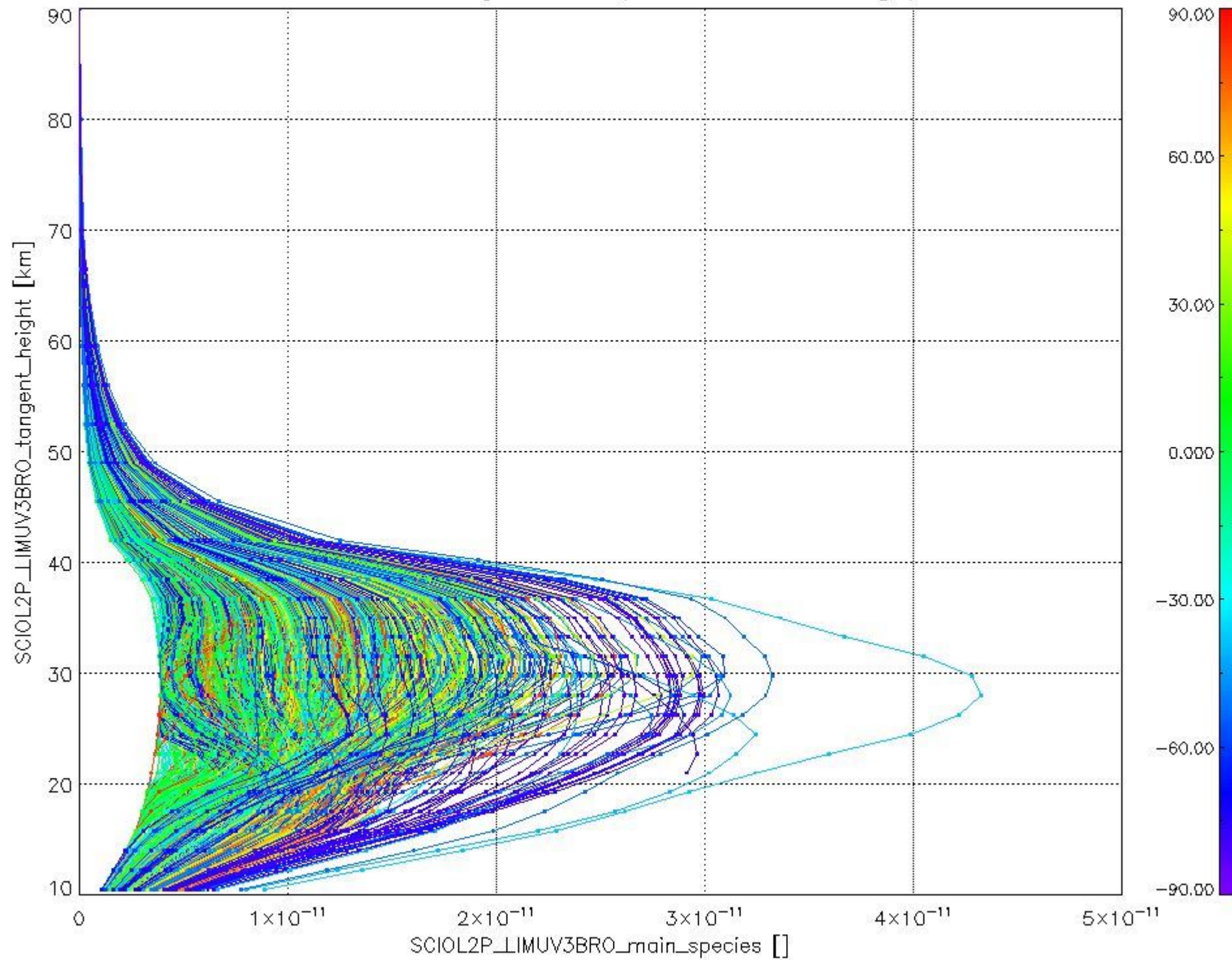
2.2.3.2 NO2 (UV1)

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)

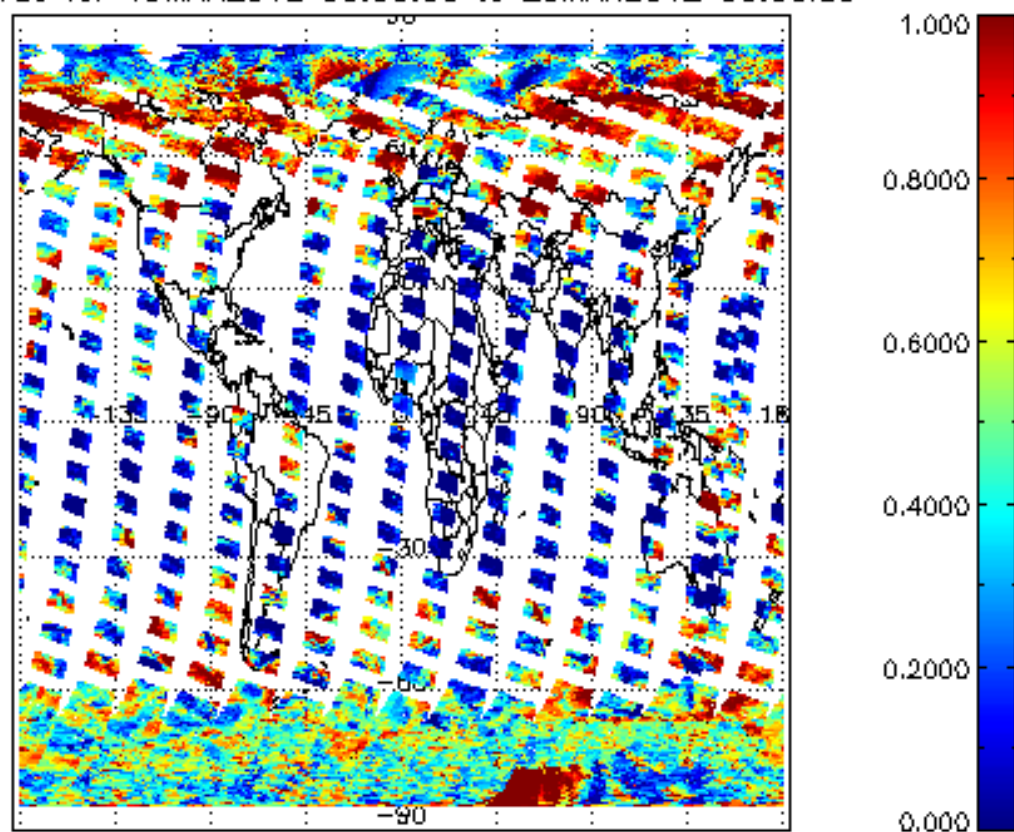
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



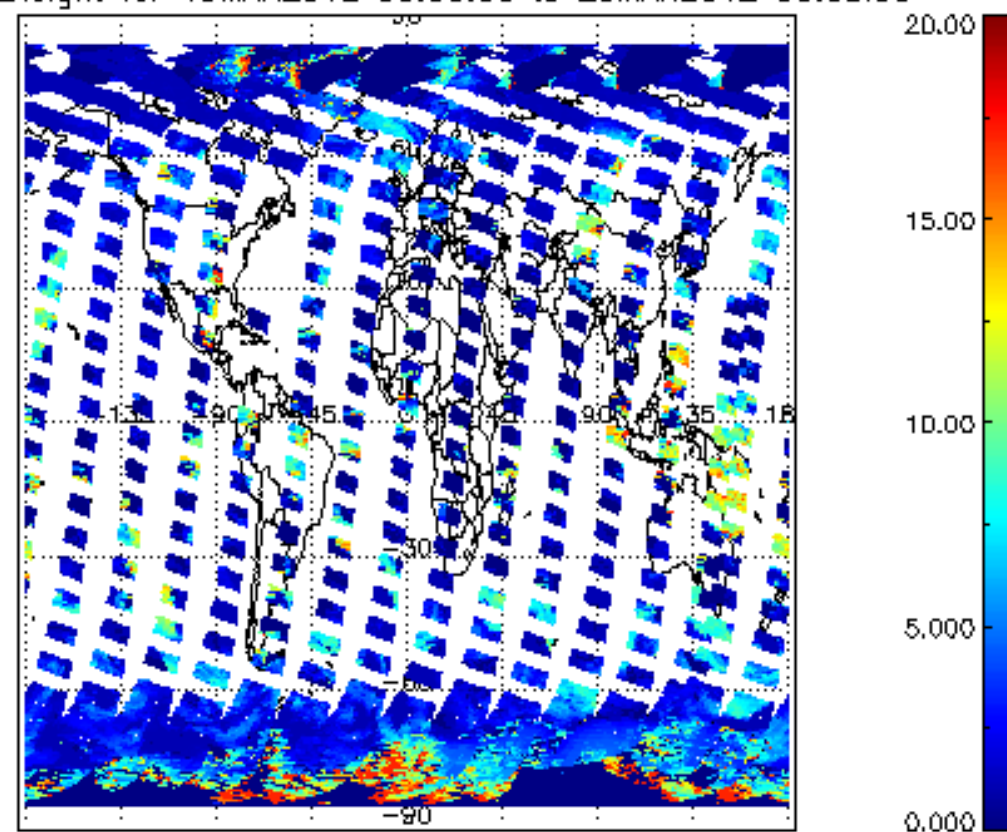
2.3 ADF monitoring

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_AXVIEC20120320_170253_20120318_193941_20120320_193941
3	SCI_MF1_AXVIEC20120320_170412_20120319_190255_20120321_190255

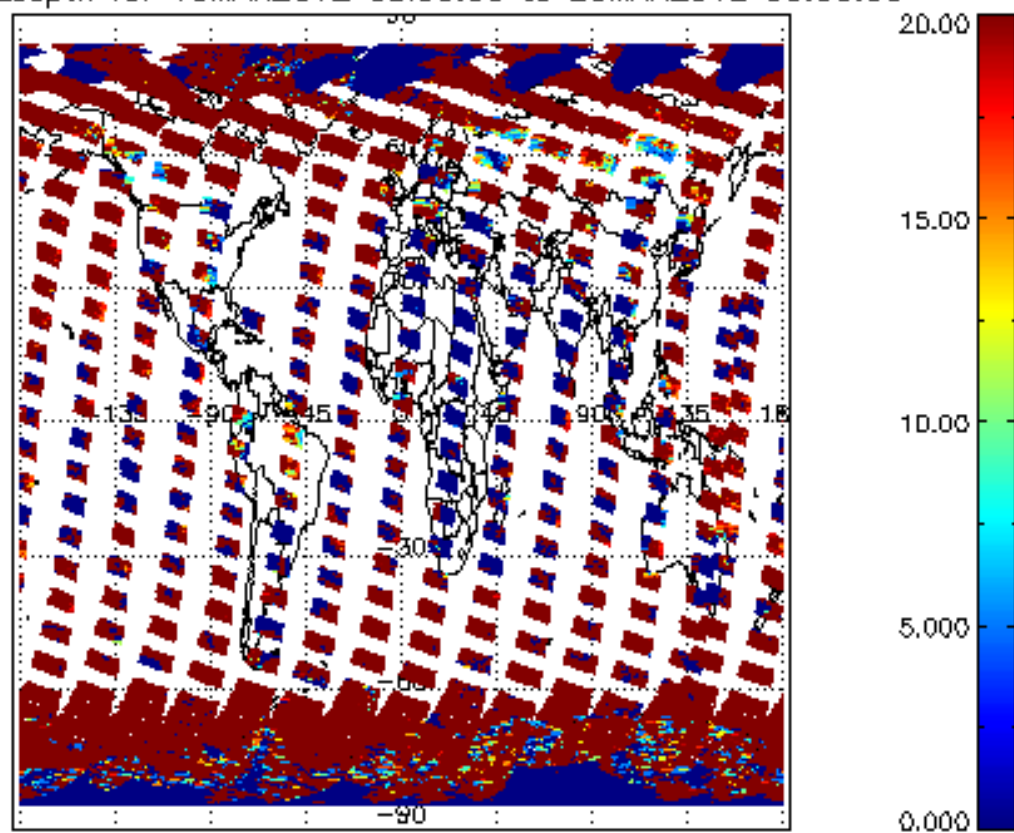
cL_frac for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



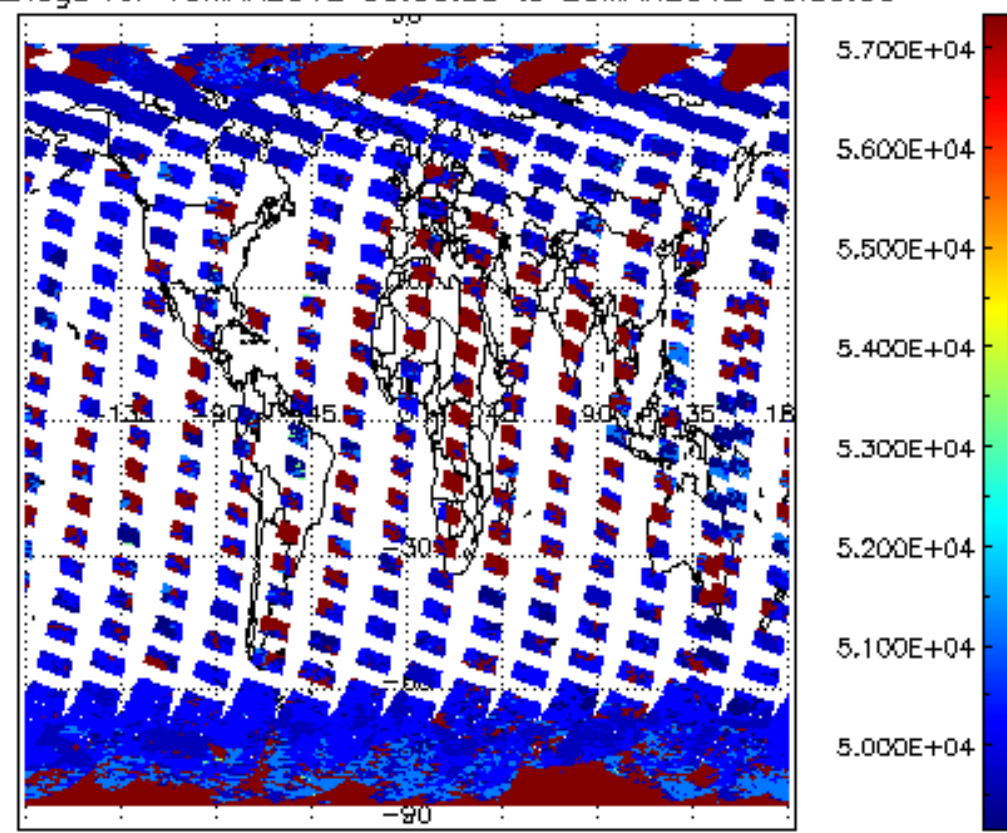
cL_top_height for 19MAR2012 00:00:00 to 20MAR2012 00:00:00

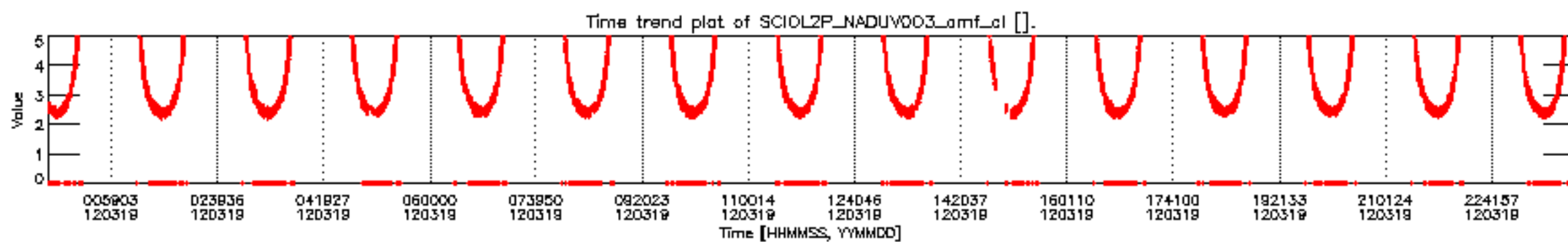
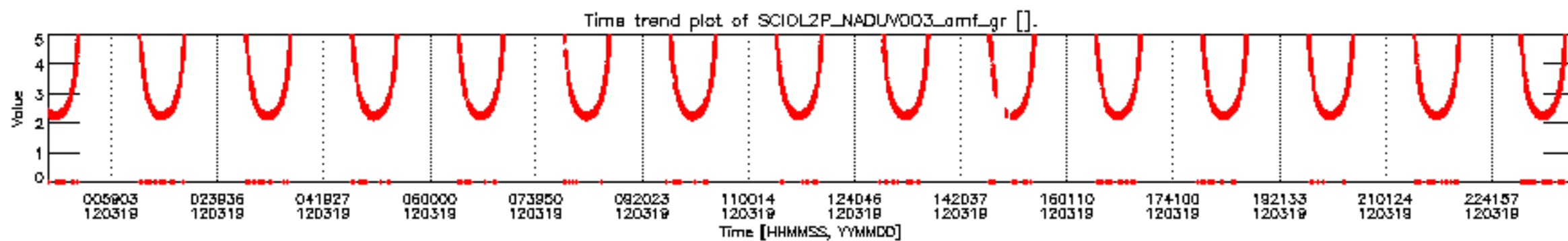
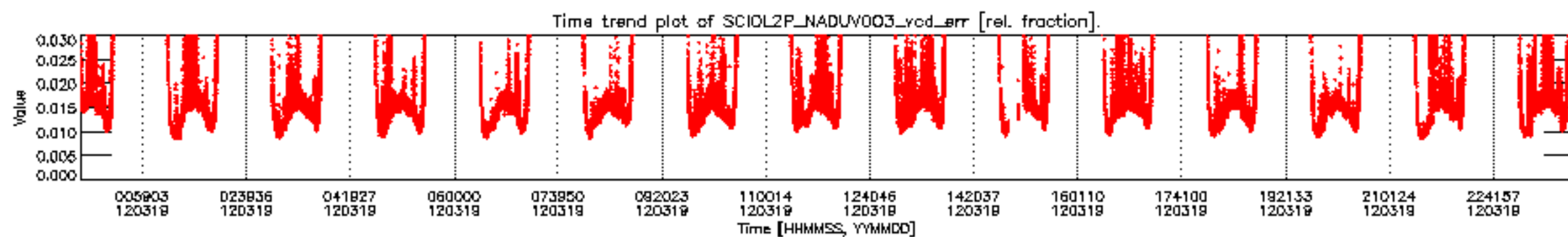
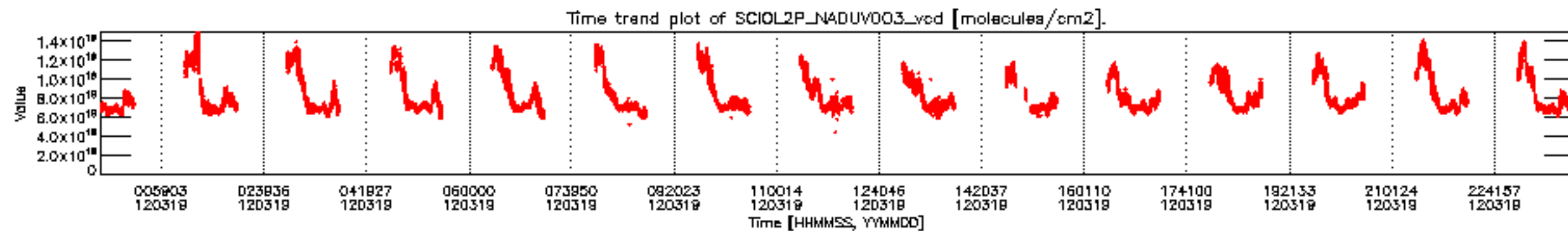


cL_opt_depth for 19MAR2012 00:00:00 to 20MAR2012 00:00:00

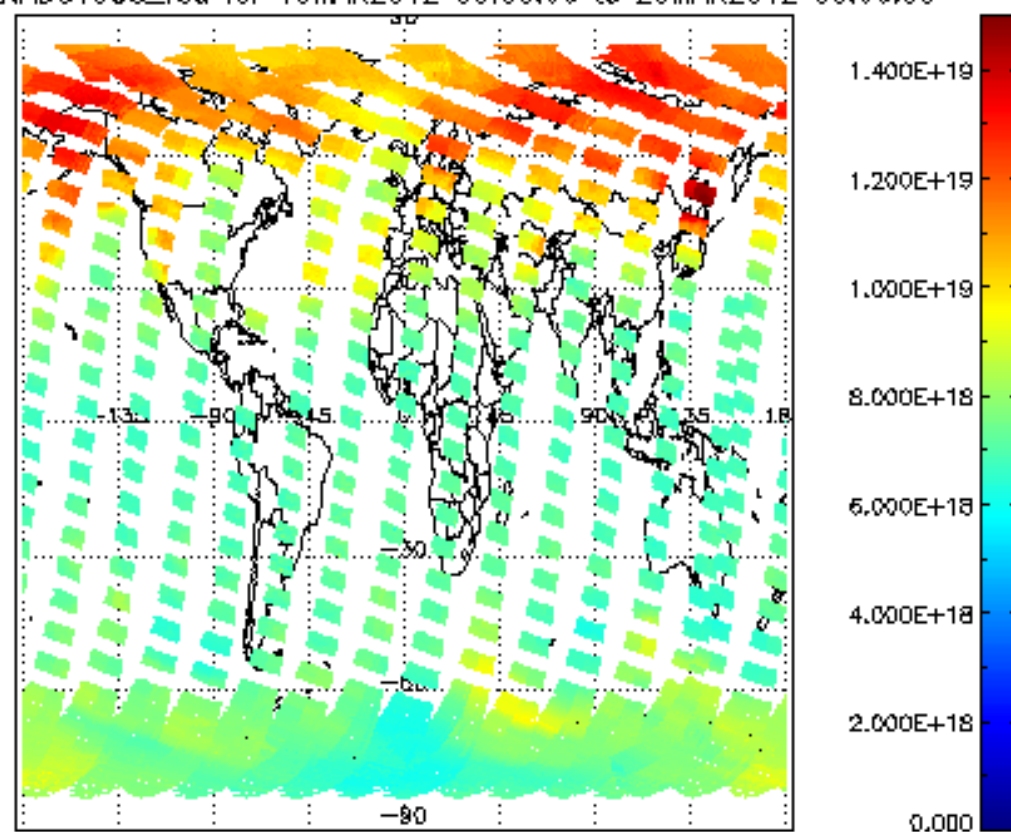


cloud_flags for 19MAR2012 00:00:00 to 20MAR2012 00:00:00

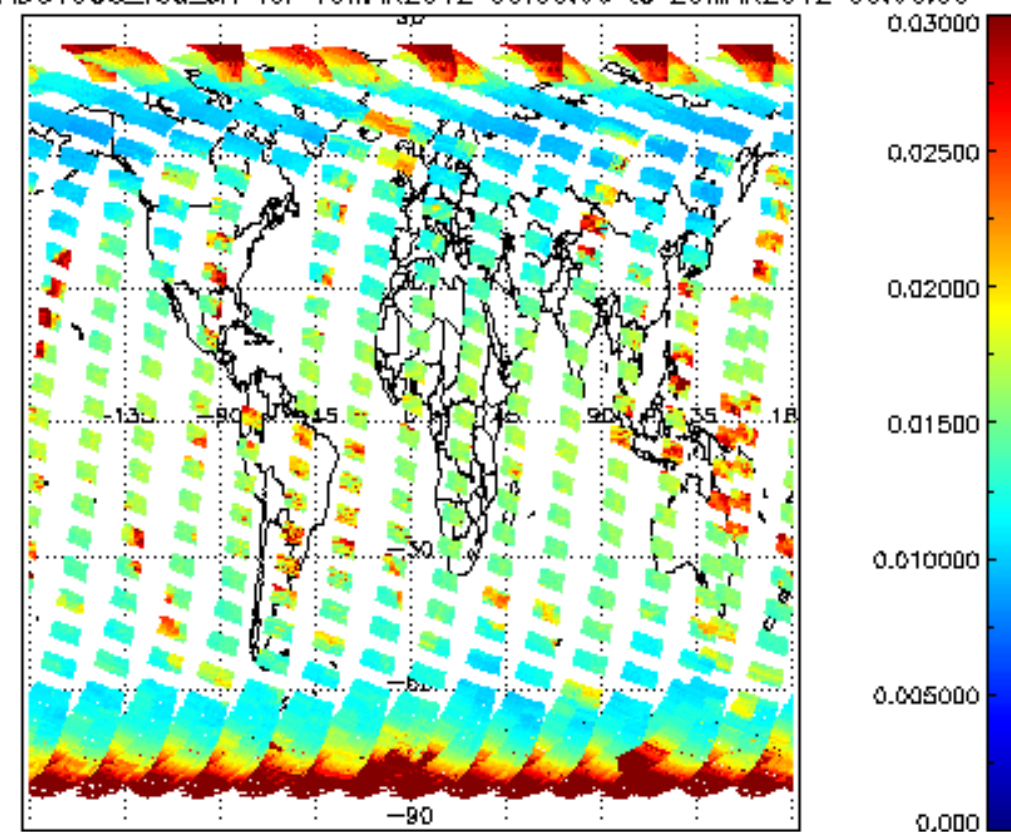




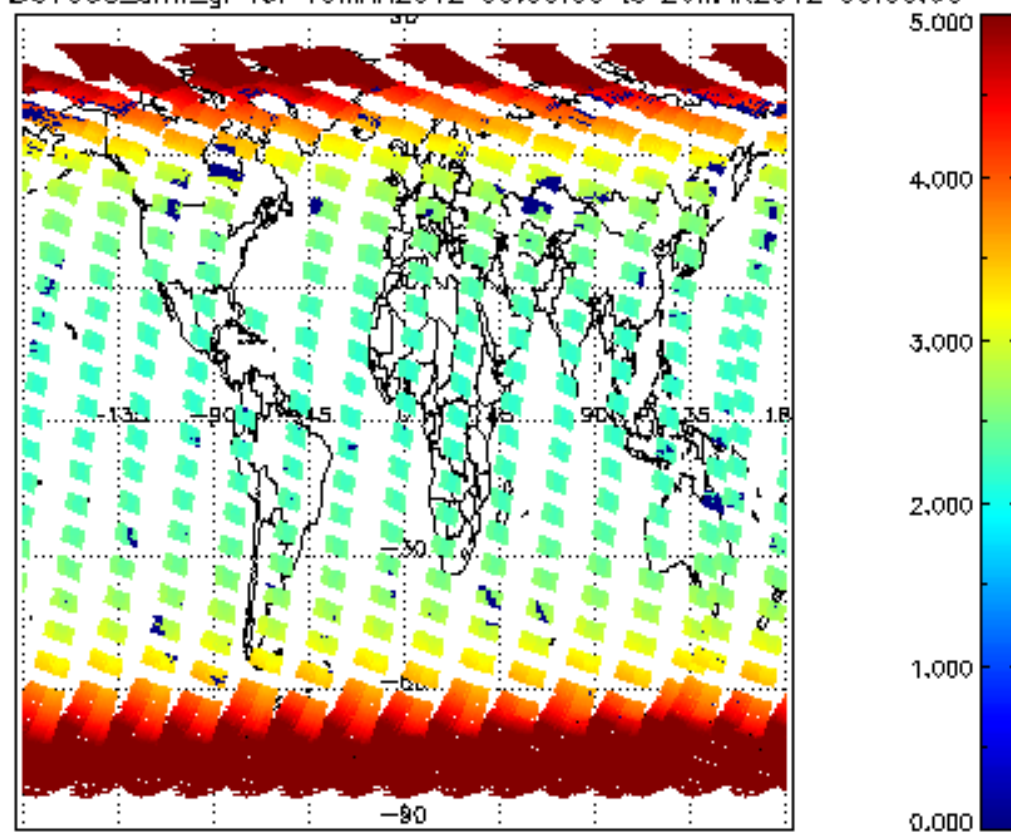
SCIOL2P_NADUV003_vcd for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



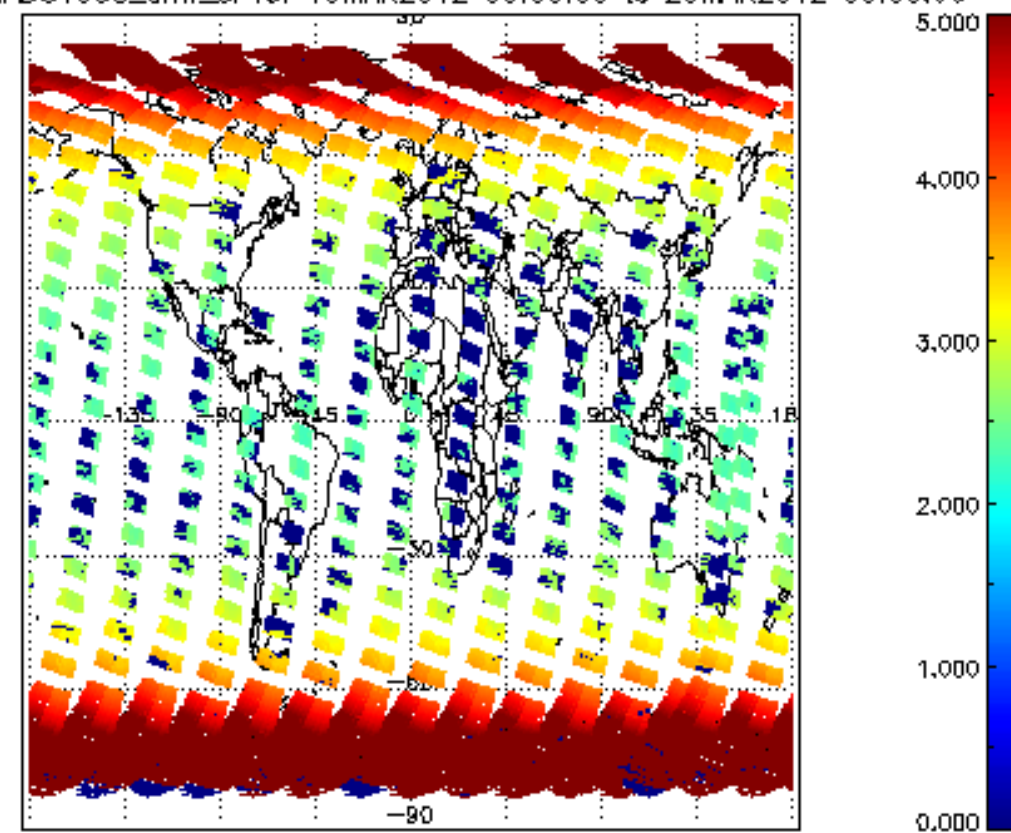
SCIOL2P_NADUV003_vcd_err for 19MAR2012 00:00:00 to 20MAR2012 00:00:00

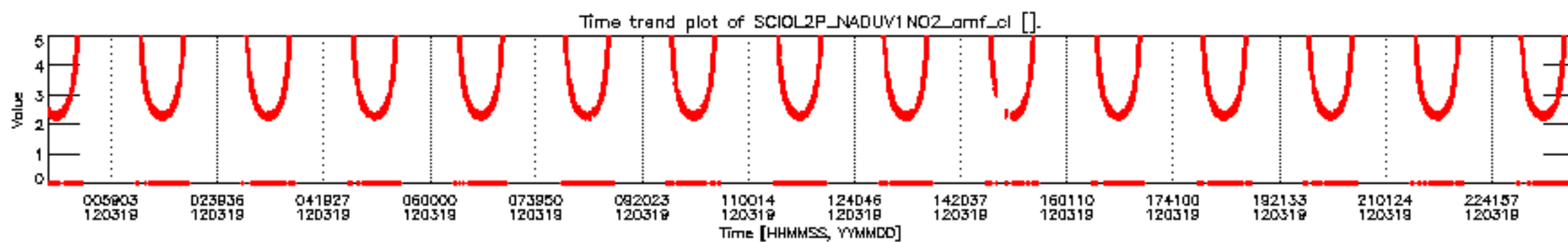
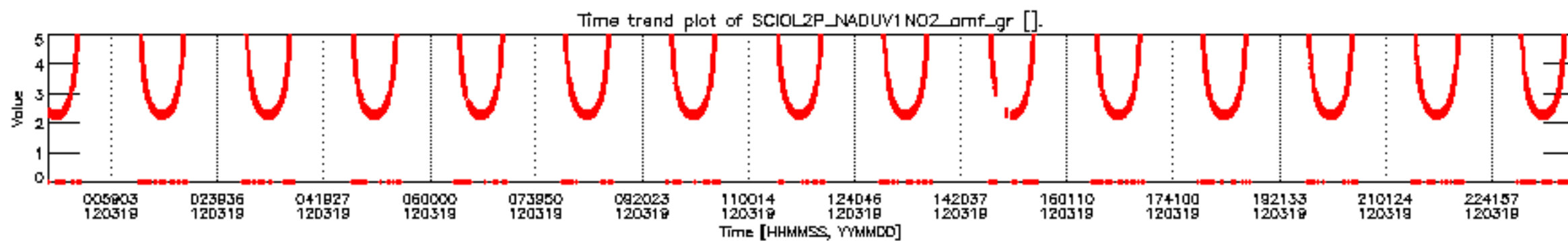
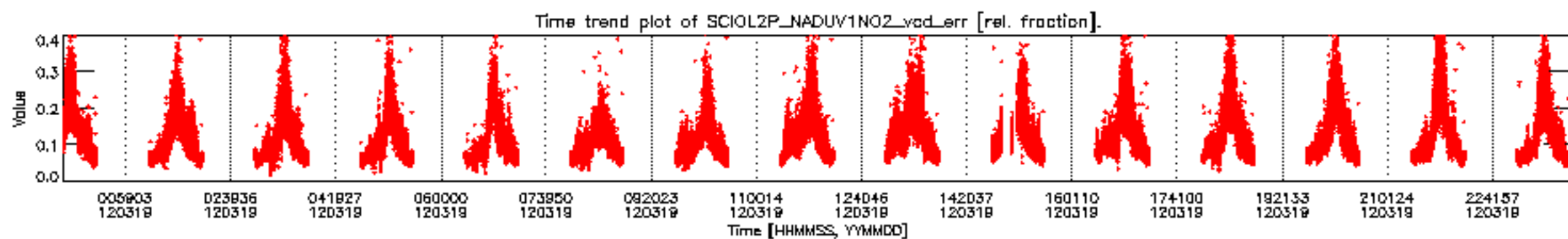
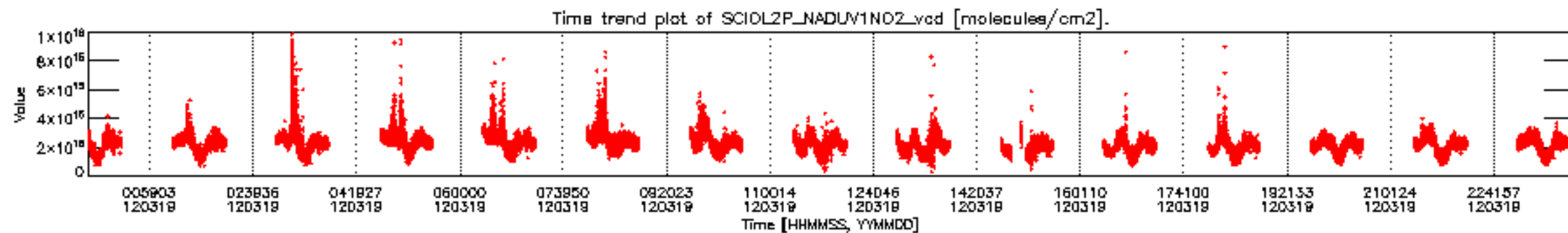


SCIOL2P_NADUV003_arnf_gr for 19MAR2012 00:00:00 to 20MAR2012 00:00:00

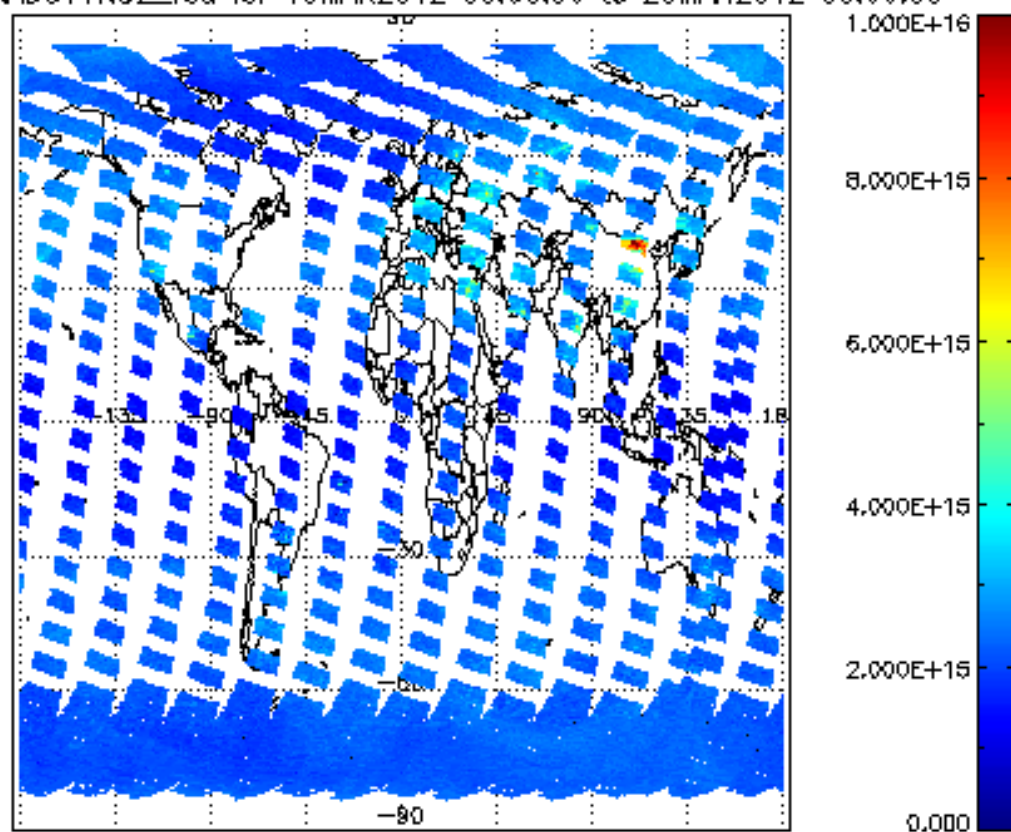


SCIOL2P_NADUV003_arnf_cl for 19MAR2012 00:00:00 to 20MAR2012 00:00:00

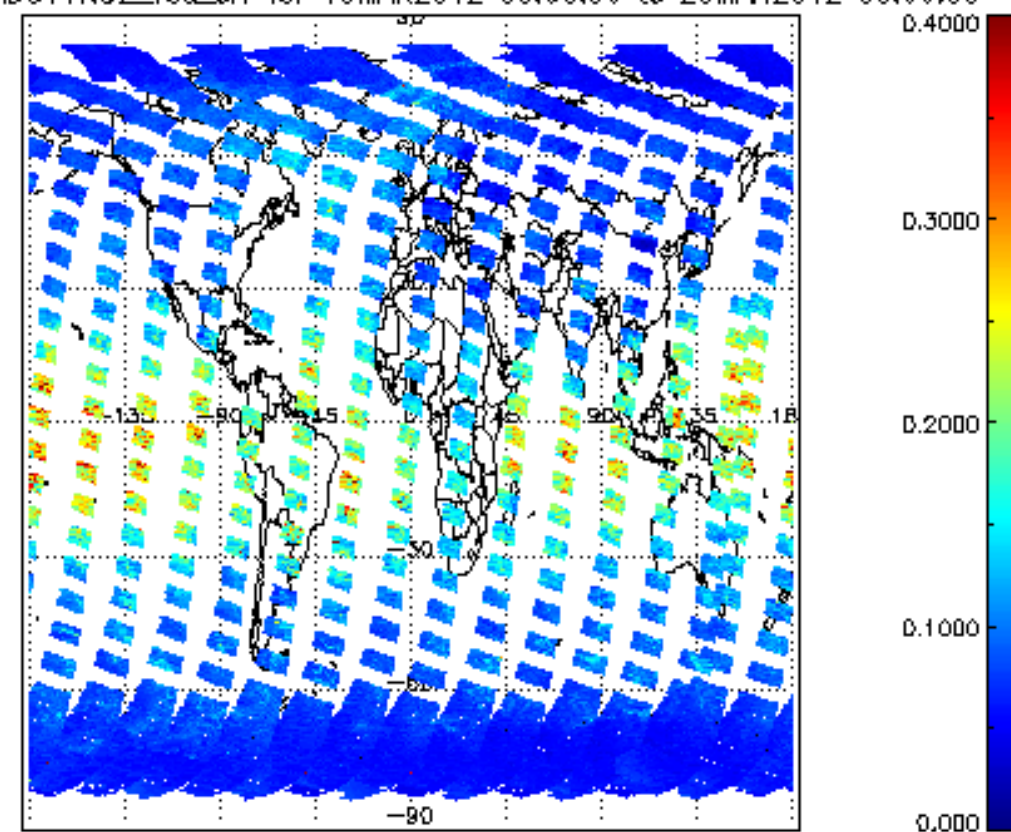




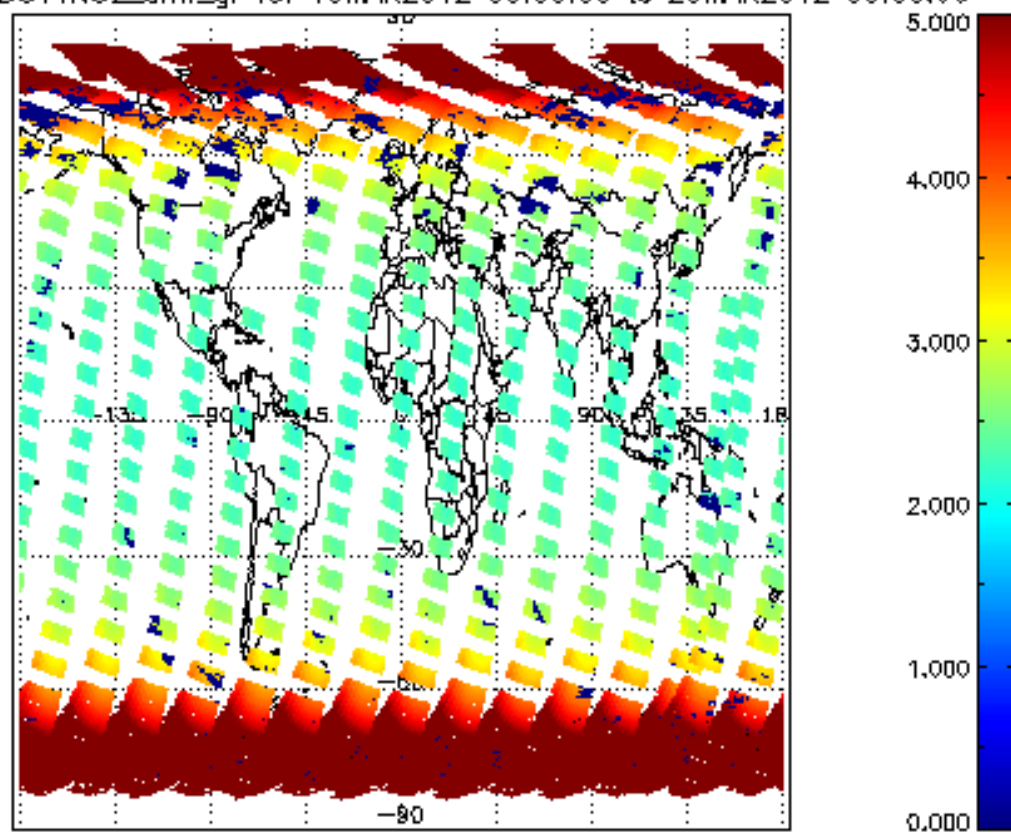
SCIOL2P_NADUV1NO2_vcd for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



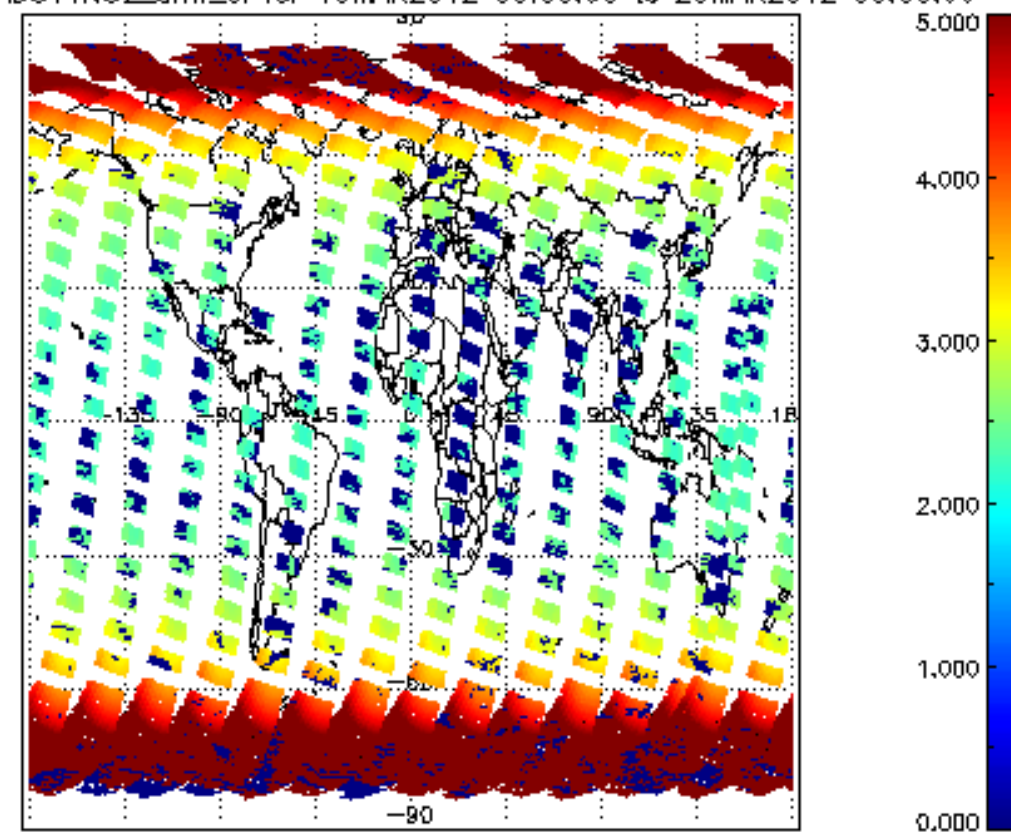
SCIOL2P_NADUV1NO2_vcd_err for 19MAR2012 00:00:00 to 20MAR2012 00:00:00

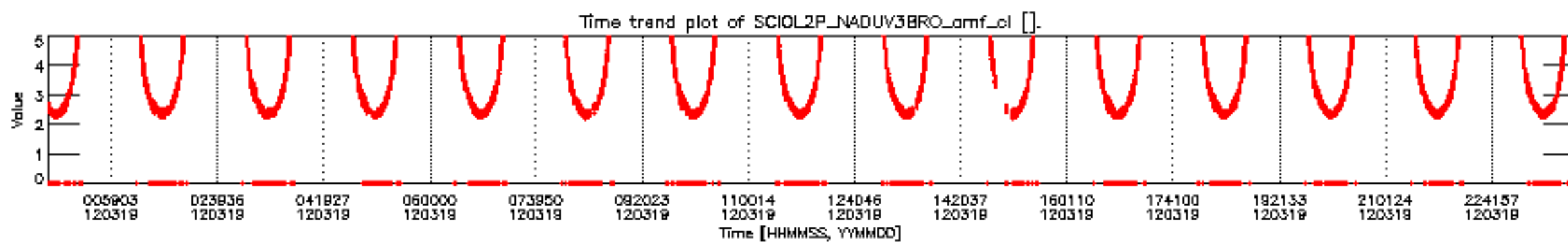
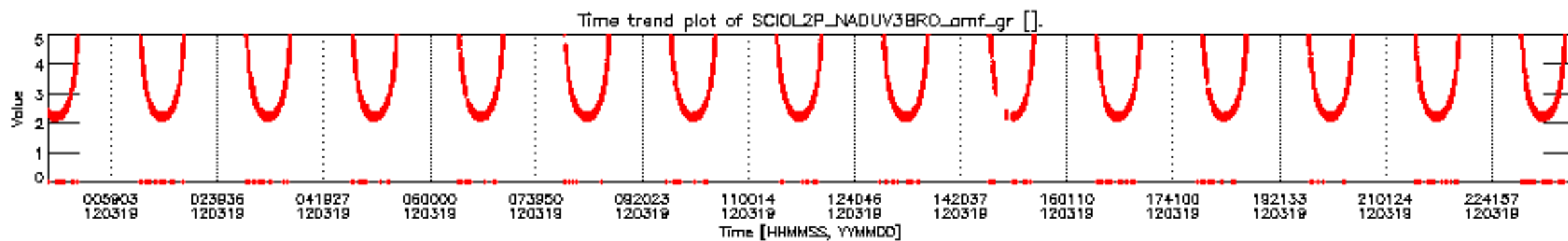
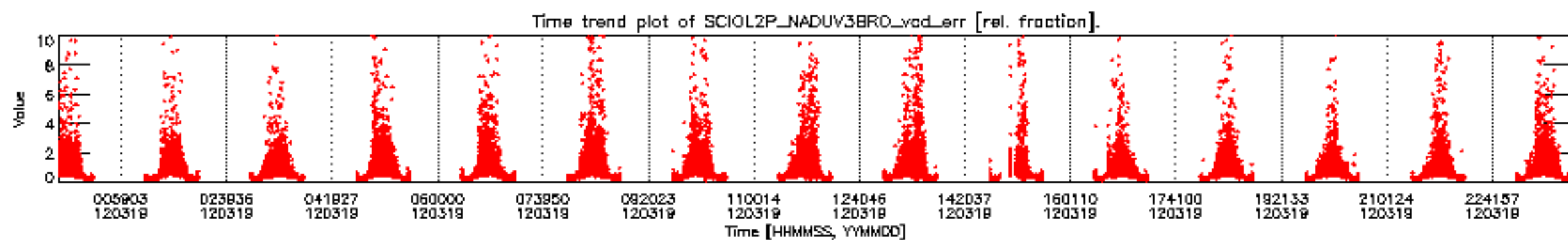
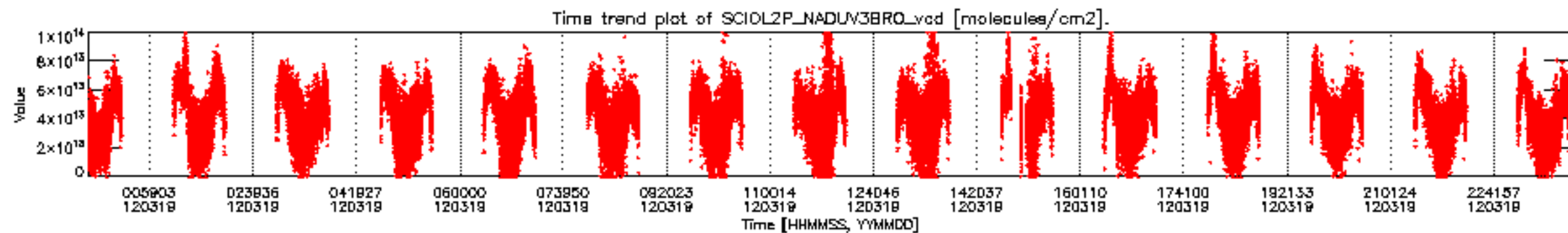


SCIOL2P_NADUV1NO2_amf_gr for 19MAR2012 00:00:00 to 20MAR2012 00:00:00

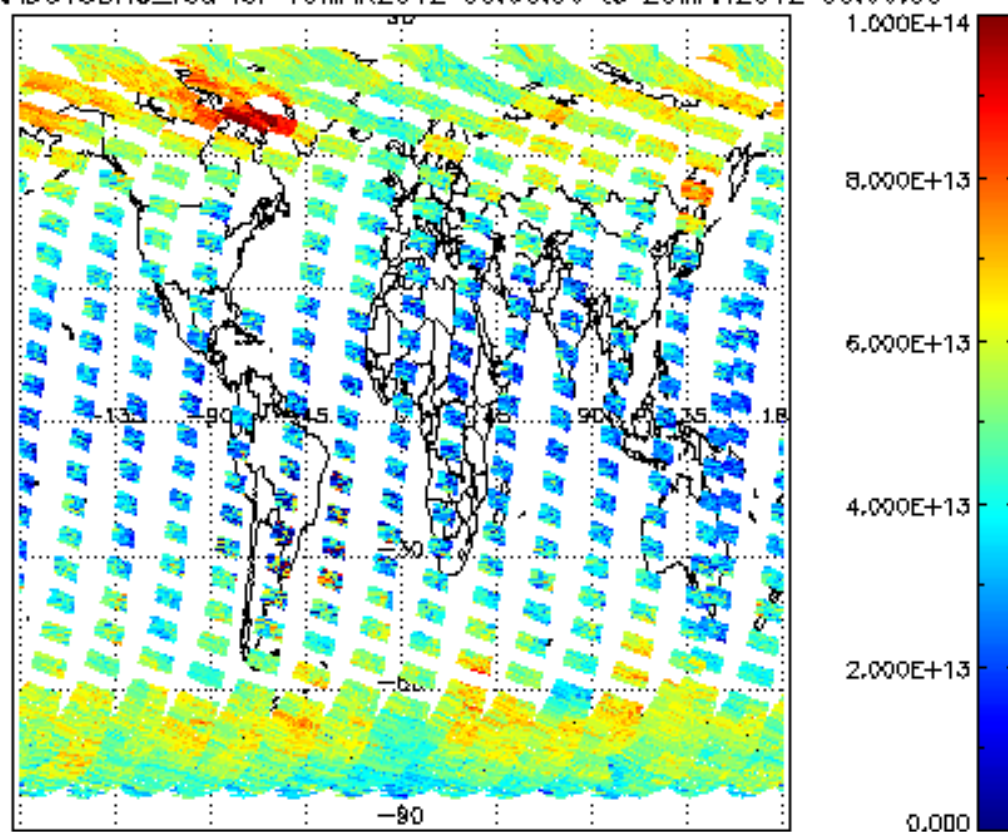


SCIOL2P_NADUV1NO2_amf_cl for 19MAR2012 00:00:00 to 20MAR2012 00:00:00

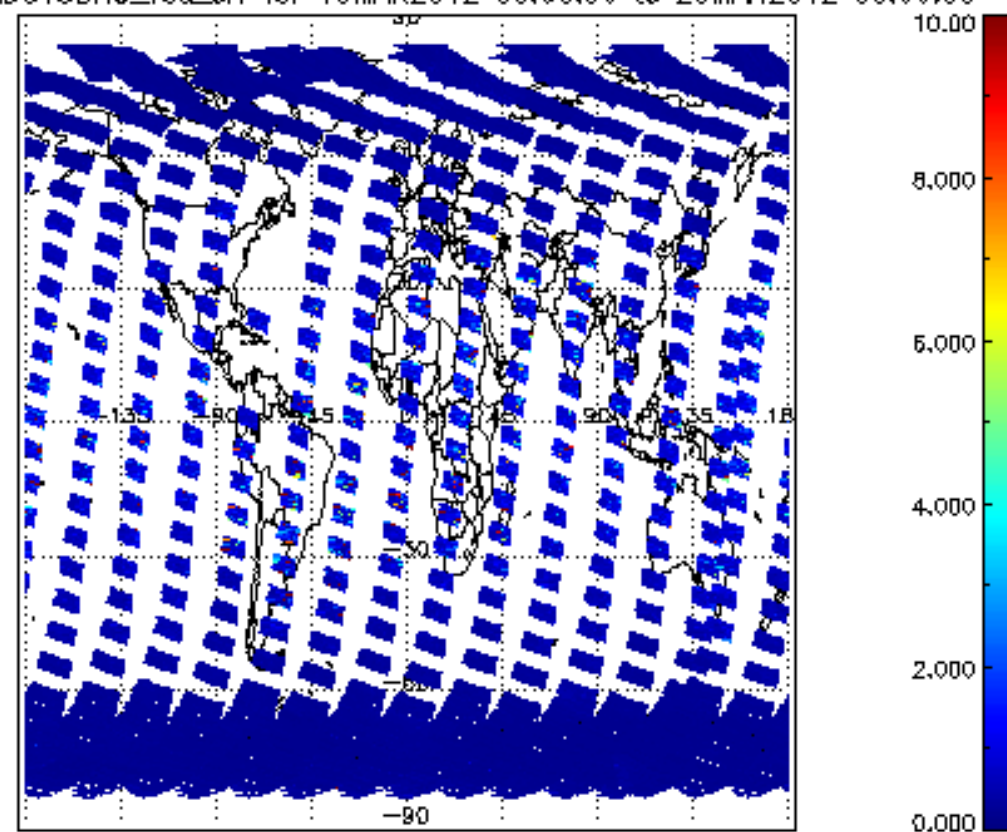




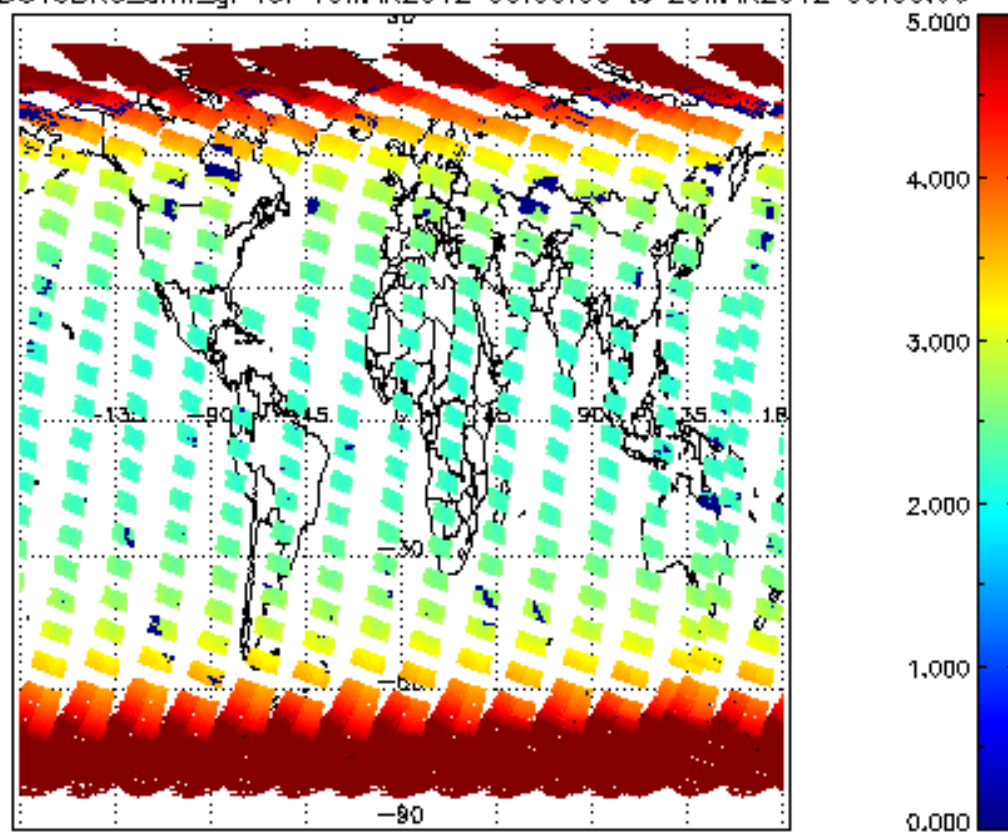
SCIOL2P_NADUV3BRO_vcd for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



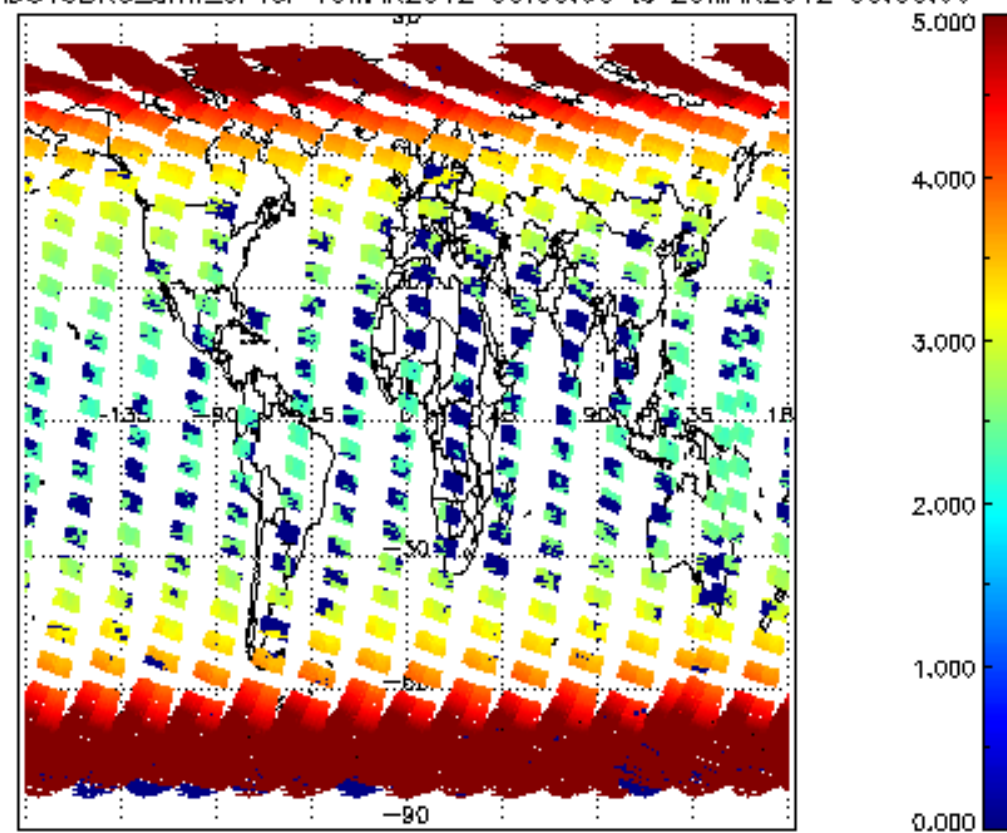
SCIOL2P_NADUV3BRO_vcd_err for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



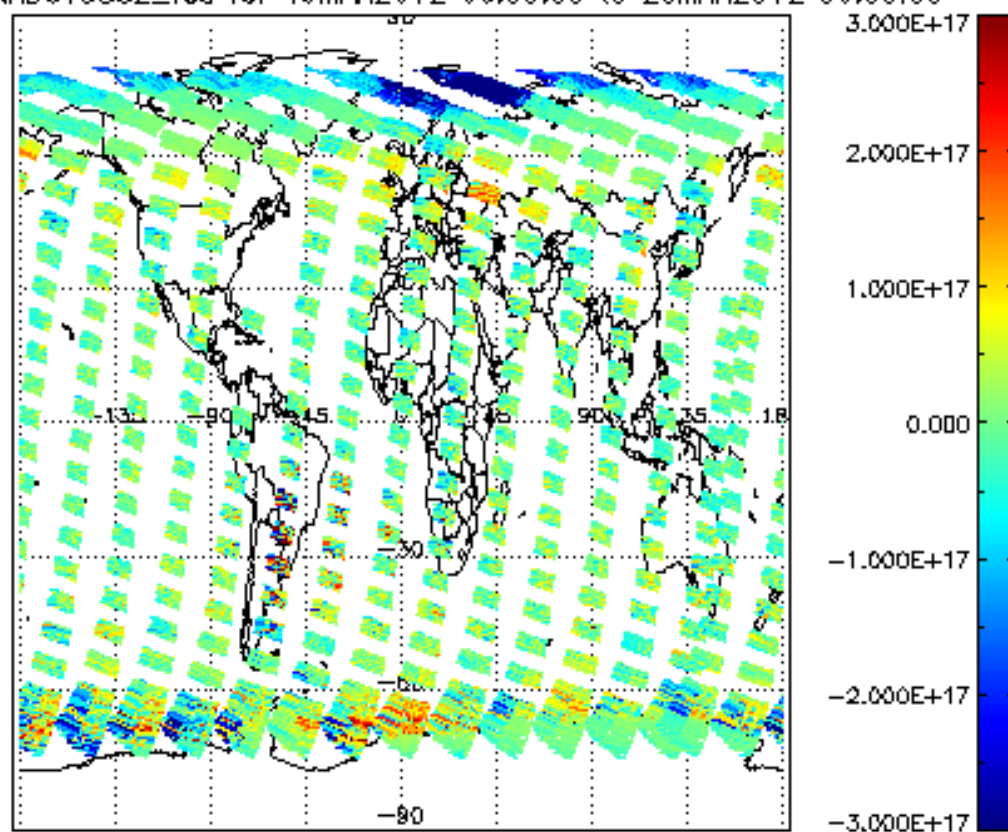
SCIOL2P_NADUV3BRO_amf_gr for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



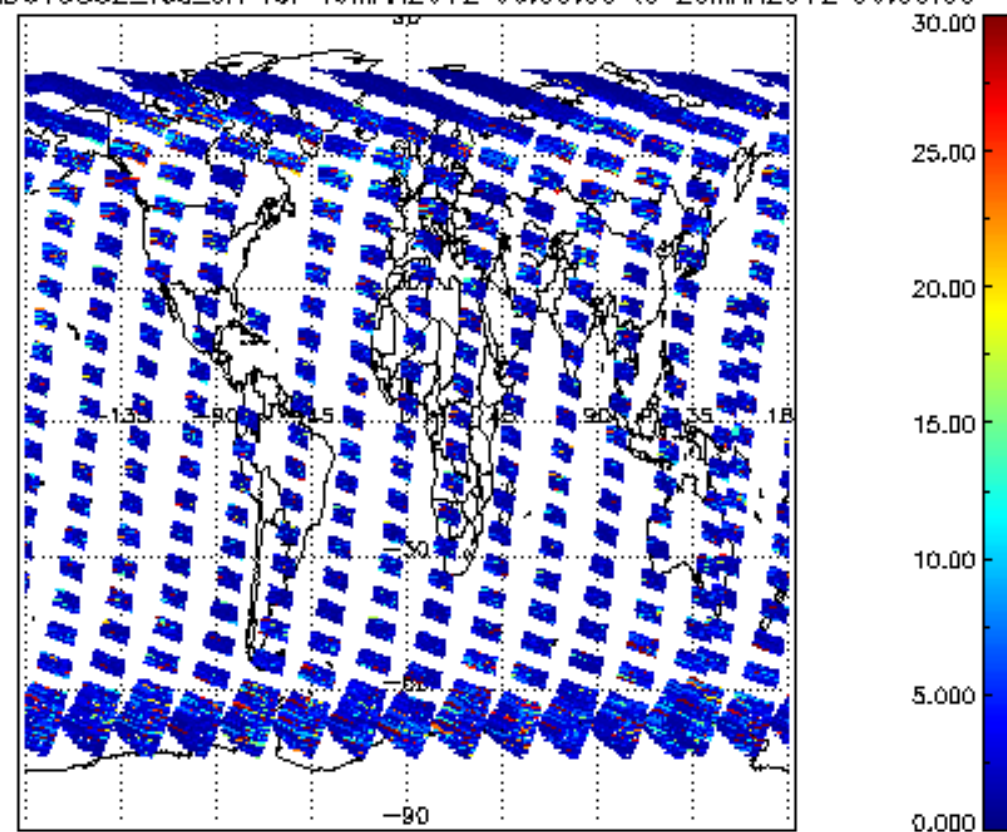
SCIOL2P_NADUV3BRO_amf_cl for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



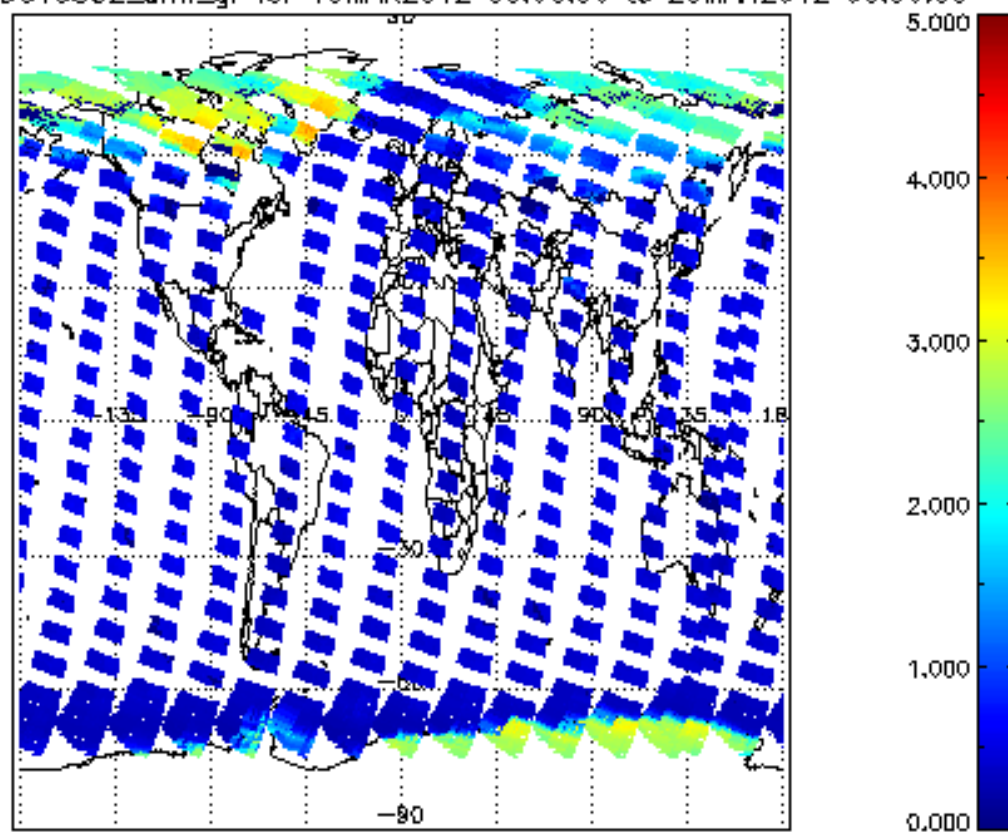
SCIOL2P_NADUV5S02_vcd for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



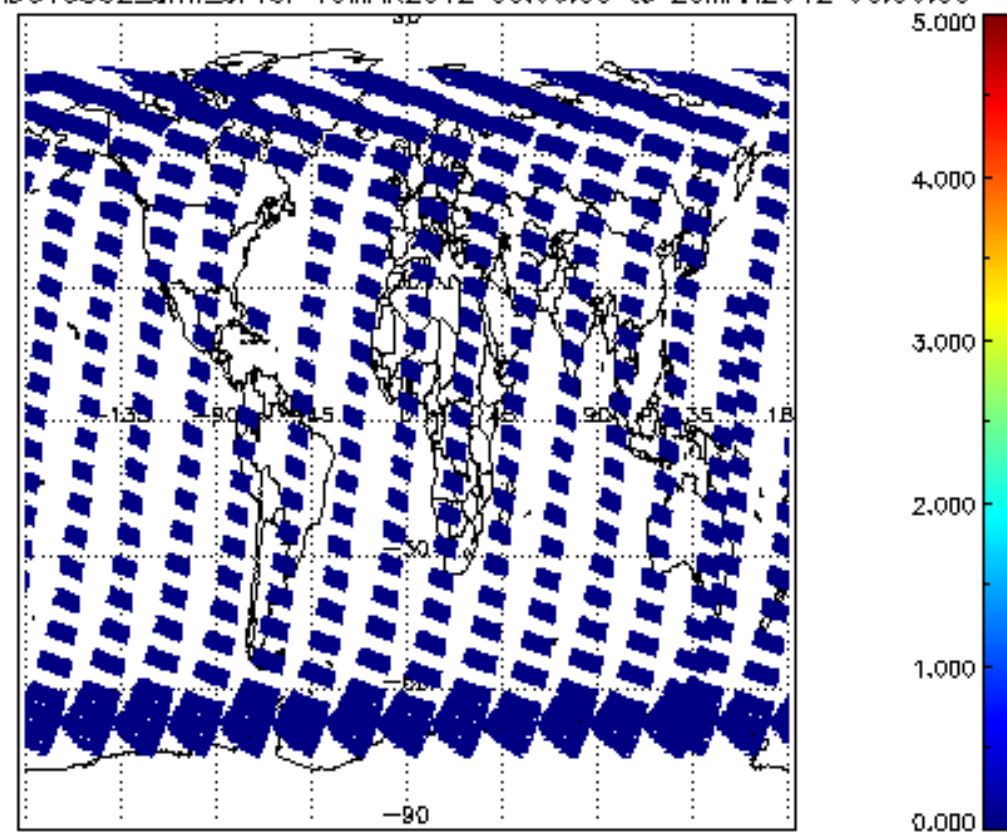
SCIOL2P_NADUV5S02_vcd_err for 19MAR2012 00:00:00 to 20MAR2012 00:00:00

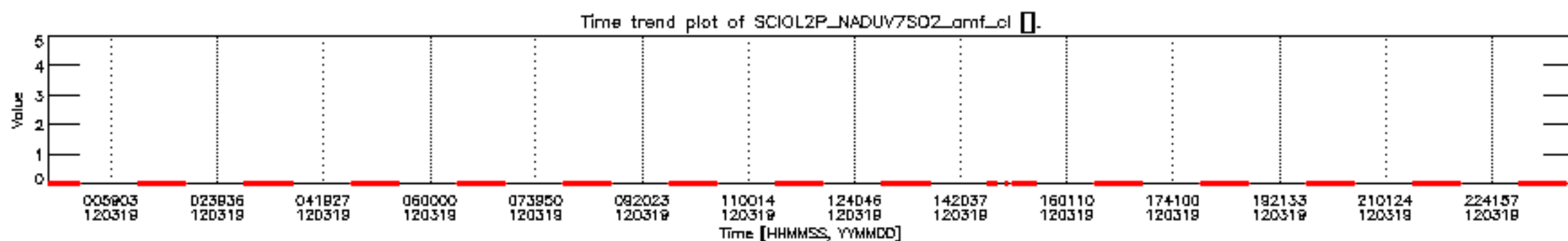
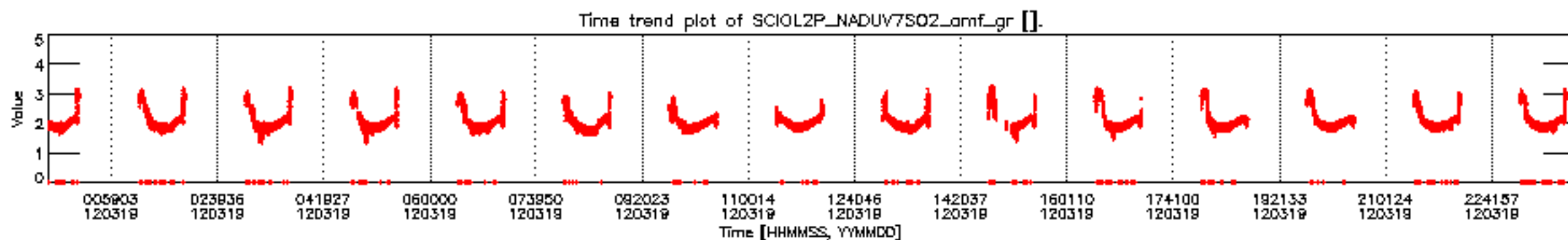
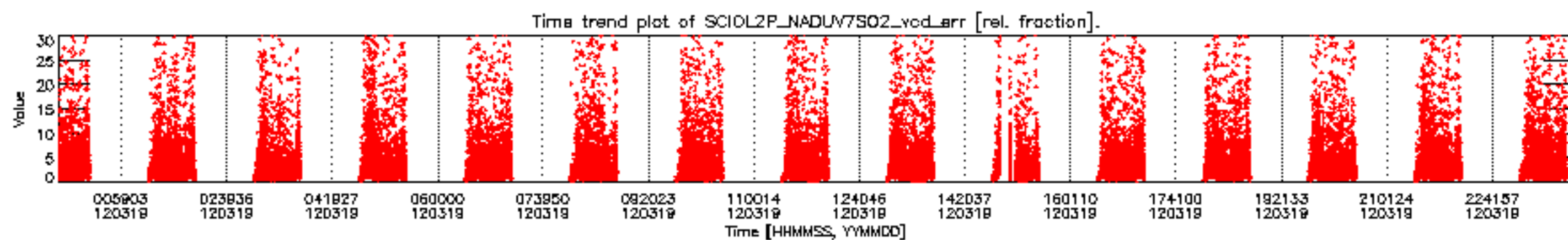
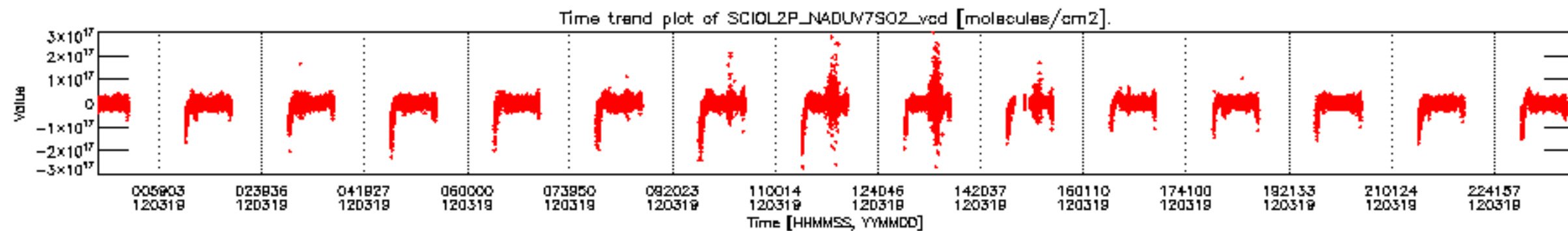


SCIOL2P_NADUV5S02_amf_gr for 19MAR2012 00:00:00 to 20MAR2012 00:00:00

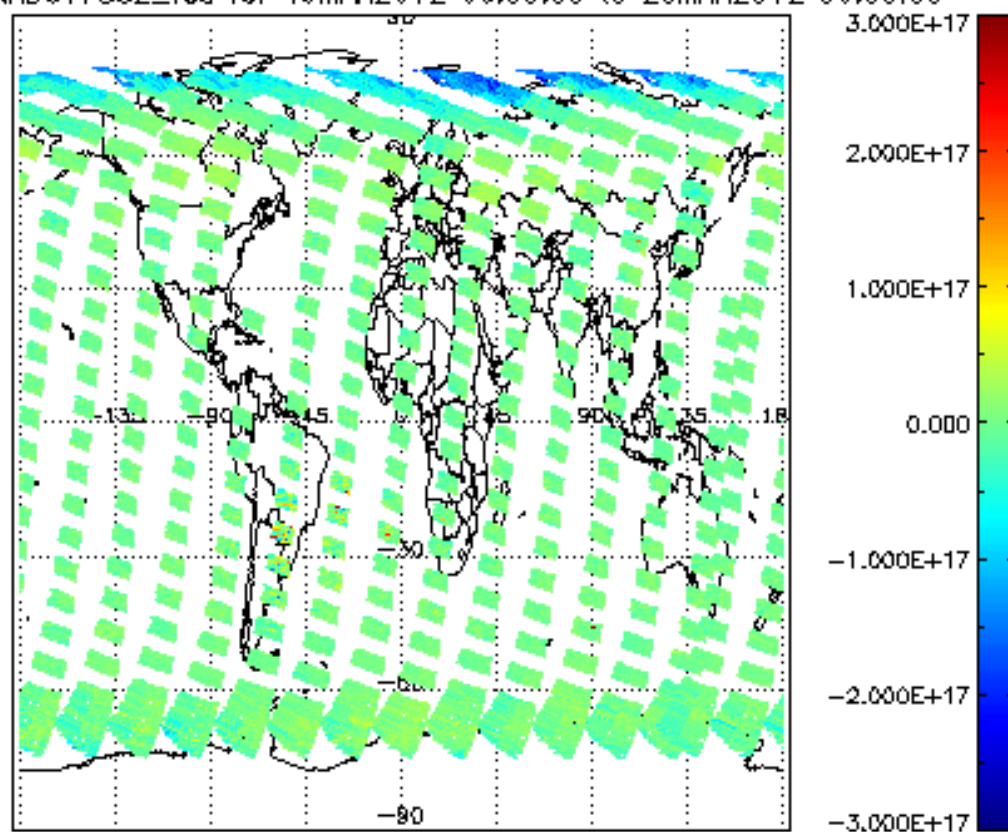


SCIOL2P_NADUV5S02_amf_cl for 19MAR2012 00:00:00 to 20MAR2012 00:00:00

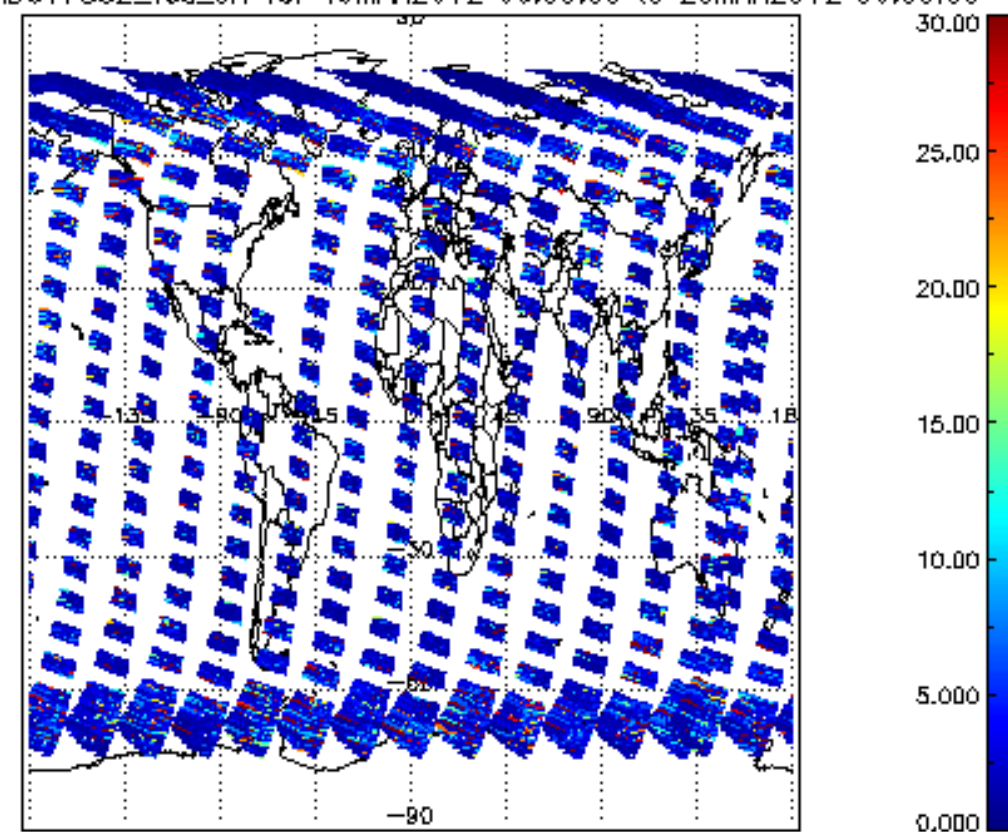




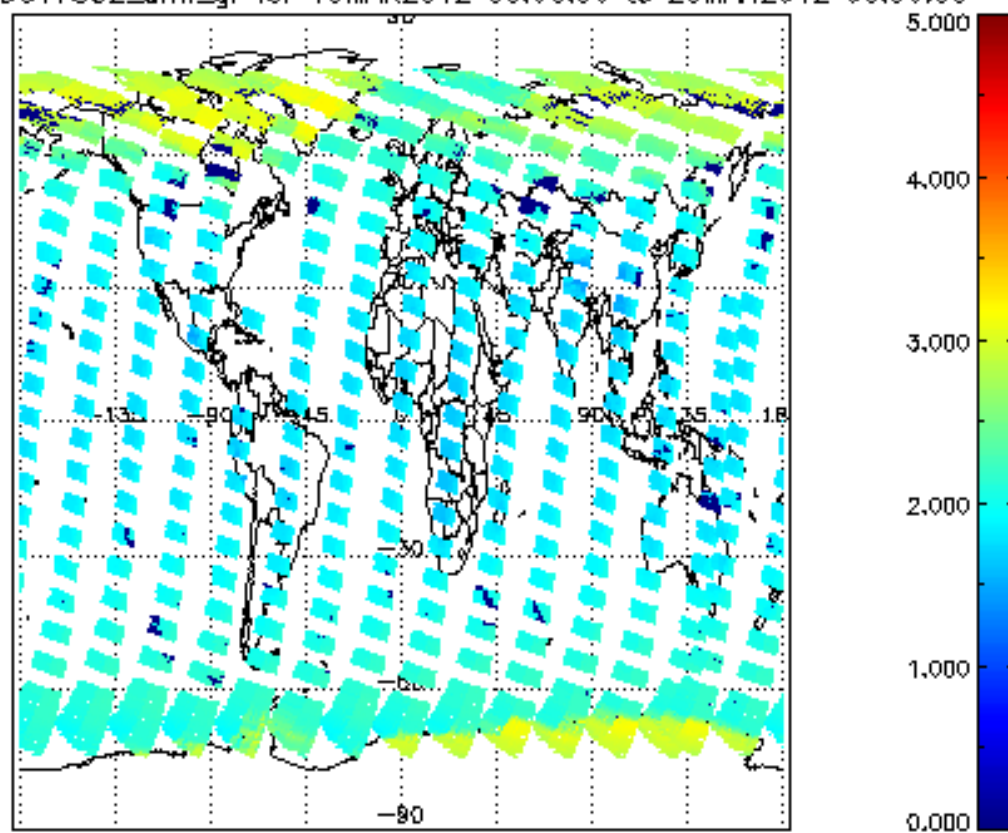
SCIOL2P_NADUV7S02_vcd for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



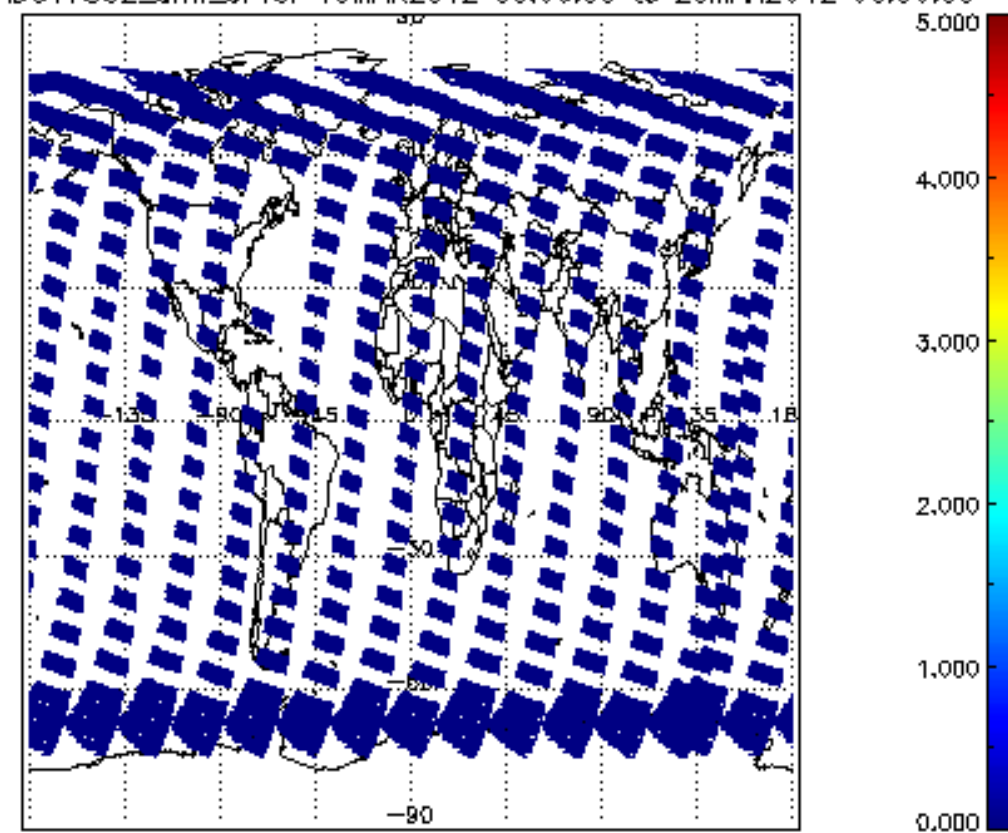
SCIOL2P_NADUV7S02_vcd_err for 19MAR2012 00:00:00 to 20MAR2012 00:00:00

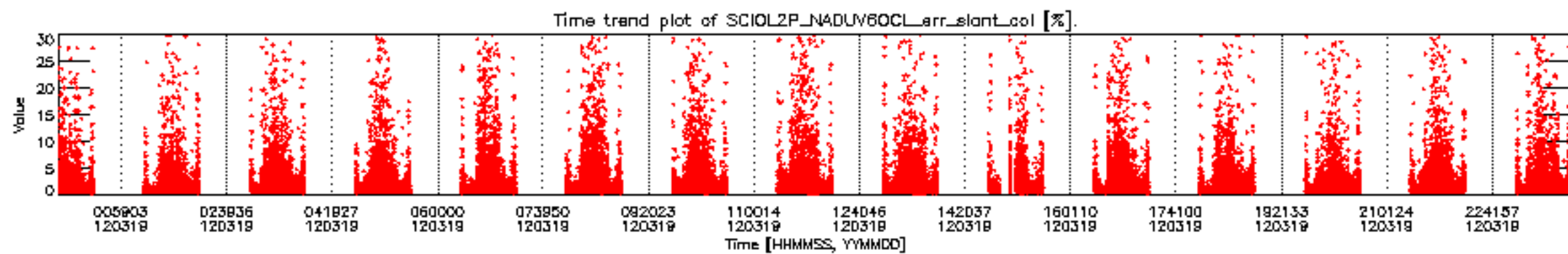
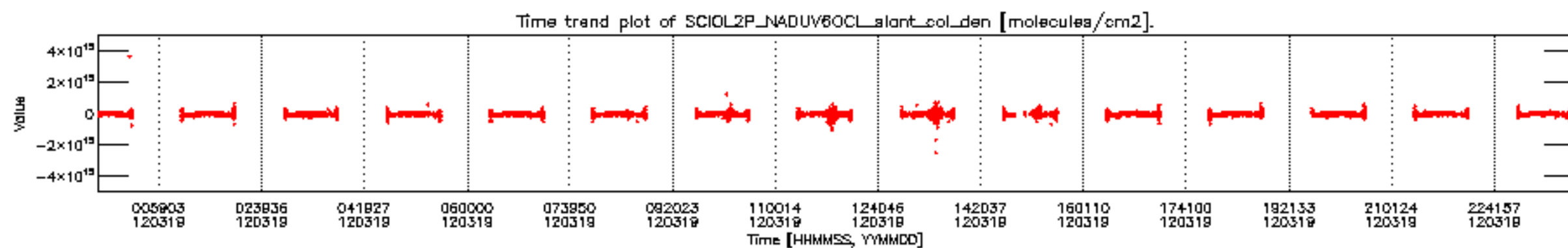


SCIOL2P_NADUV7S02_amf_gr for 19MAR2012 00:00:00 to 20MAR2012 00:00:00

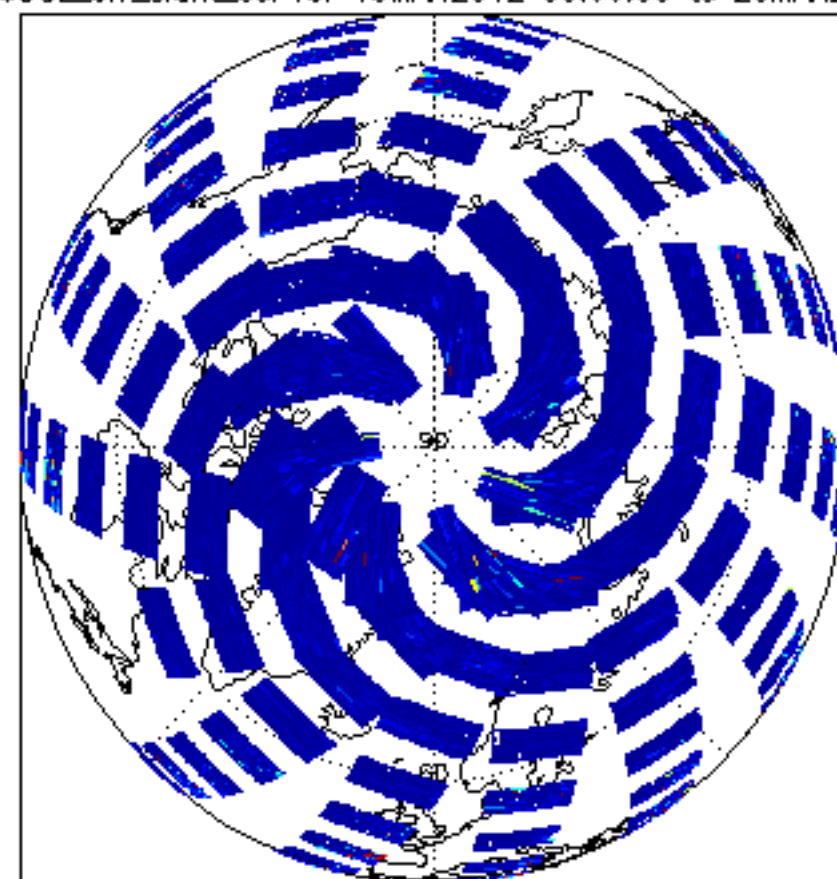
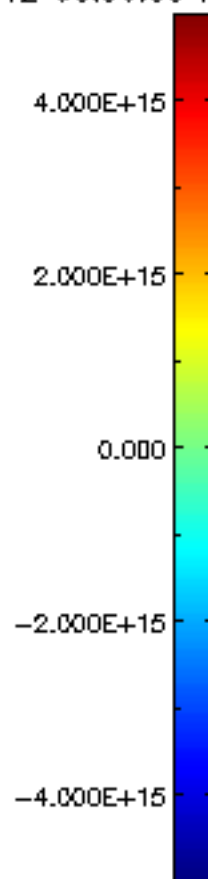
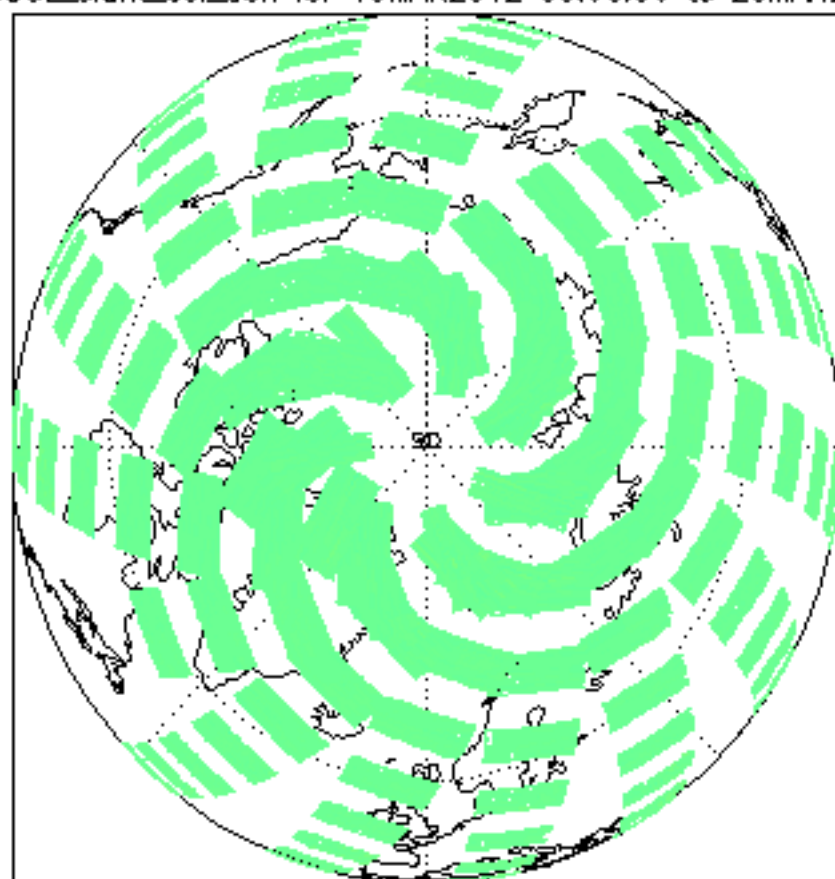


SCIOL2P_NADUV7S02_amf_cl for 19MAR2012 00:00:00 to 20MAR2012 00:00:00

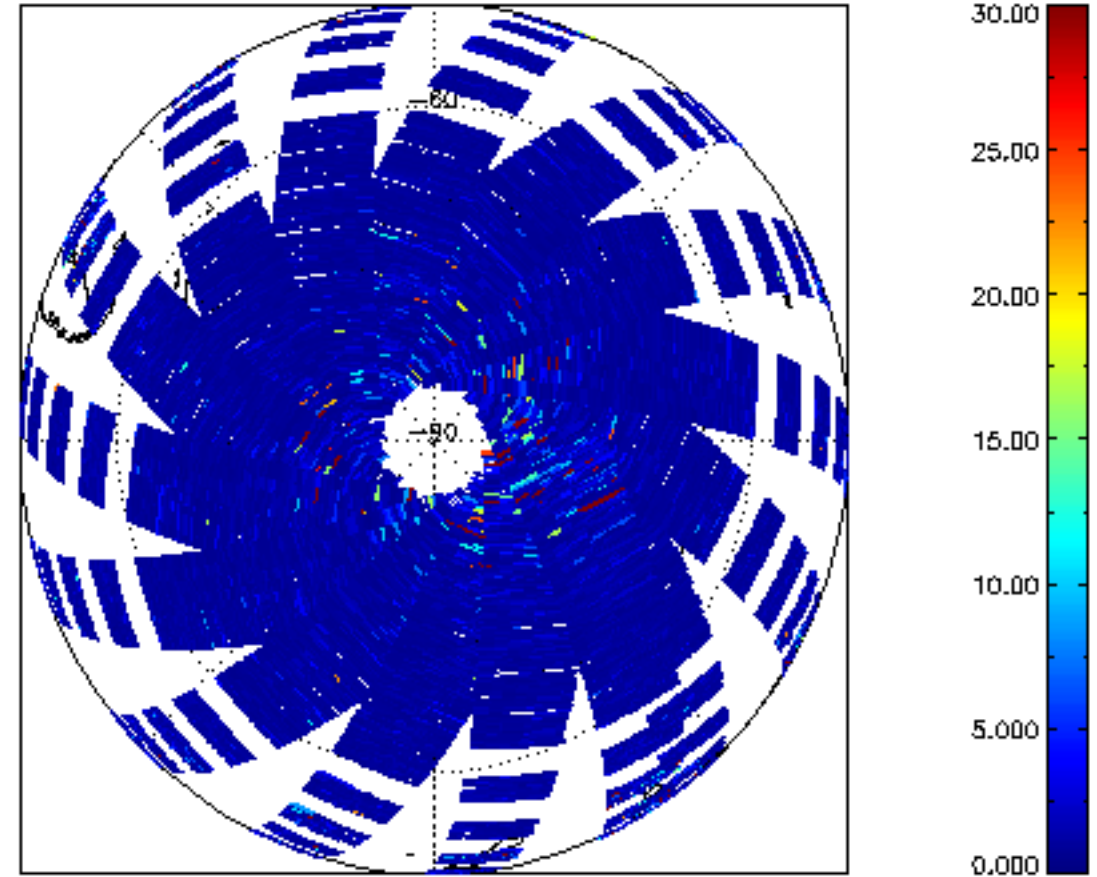
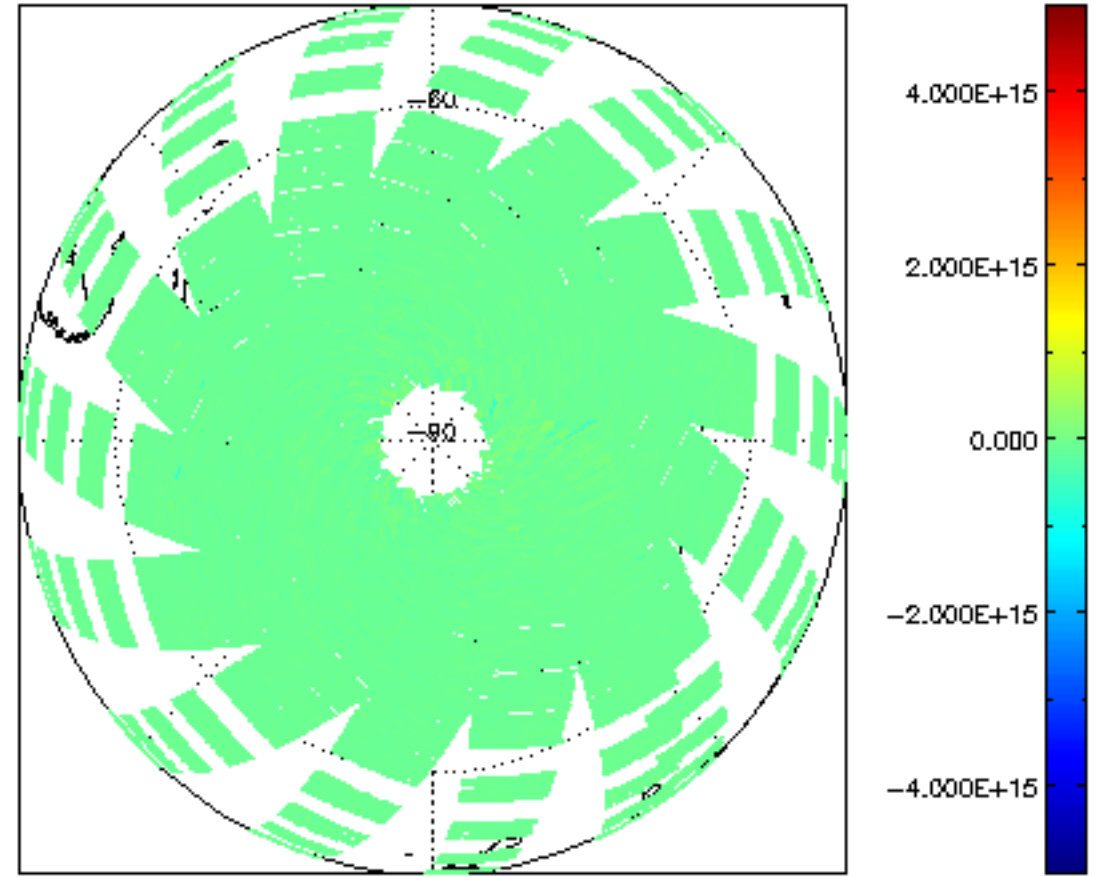


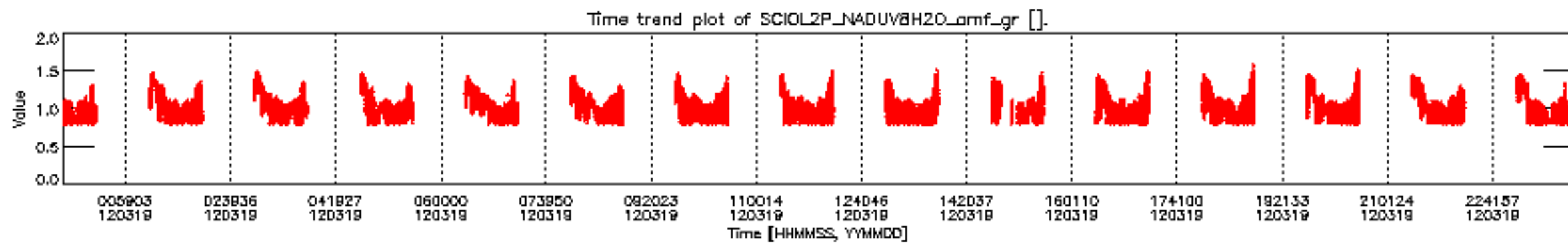
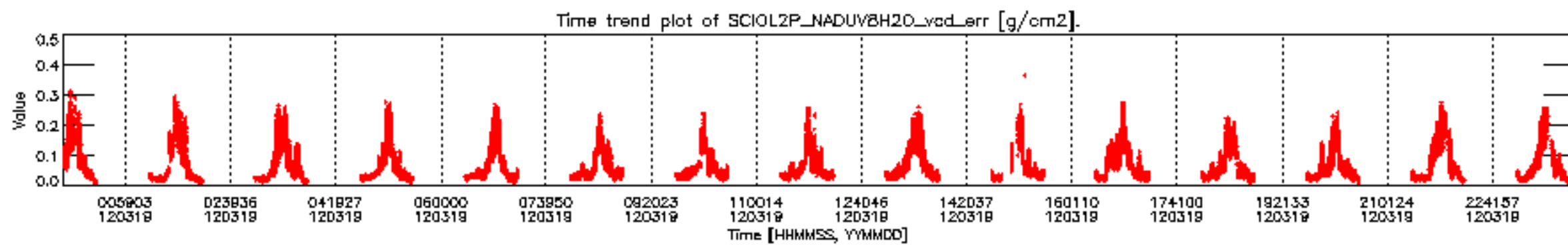
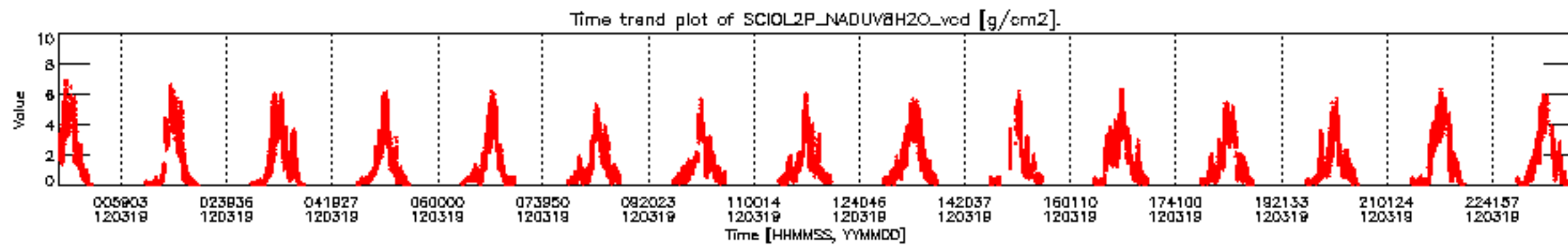


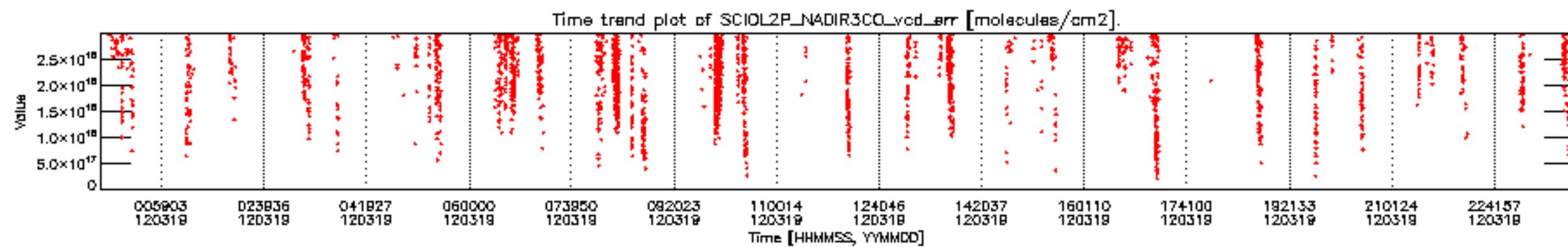
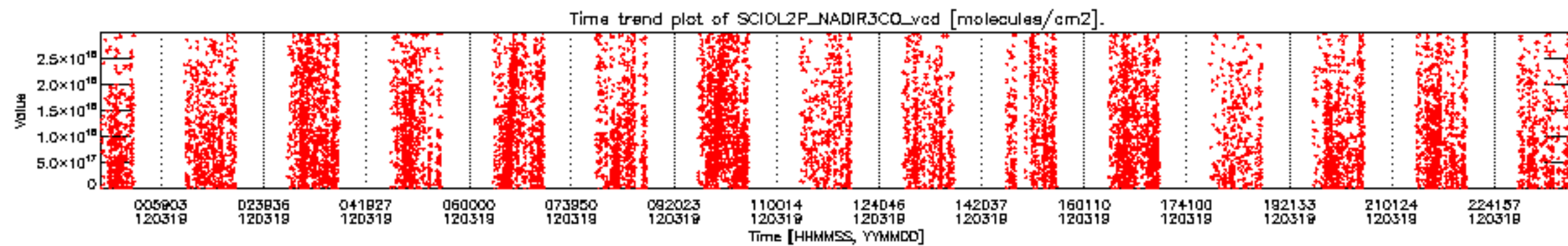
CIOL2P_NADUV6OCL_slant_col_den for 19MAR2012 00:00:00 to 20MAR2012 00:00:00 np; CIOL2P_NADUV6OCL_err_slant_col for 19MAR2012 00:00:00 to 20MAR2012 00:00:00 np



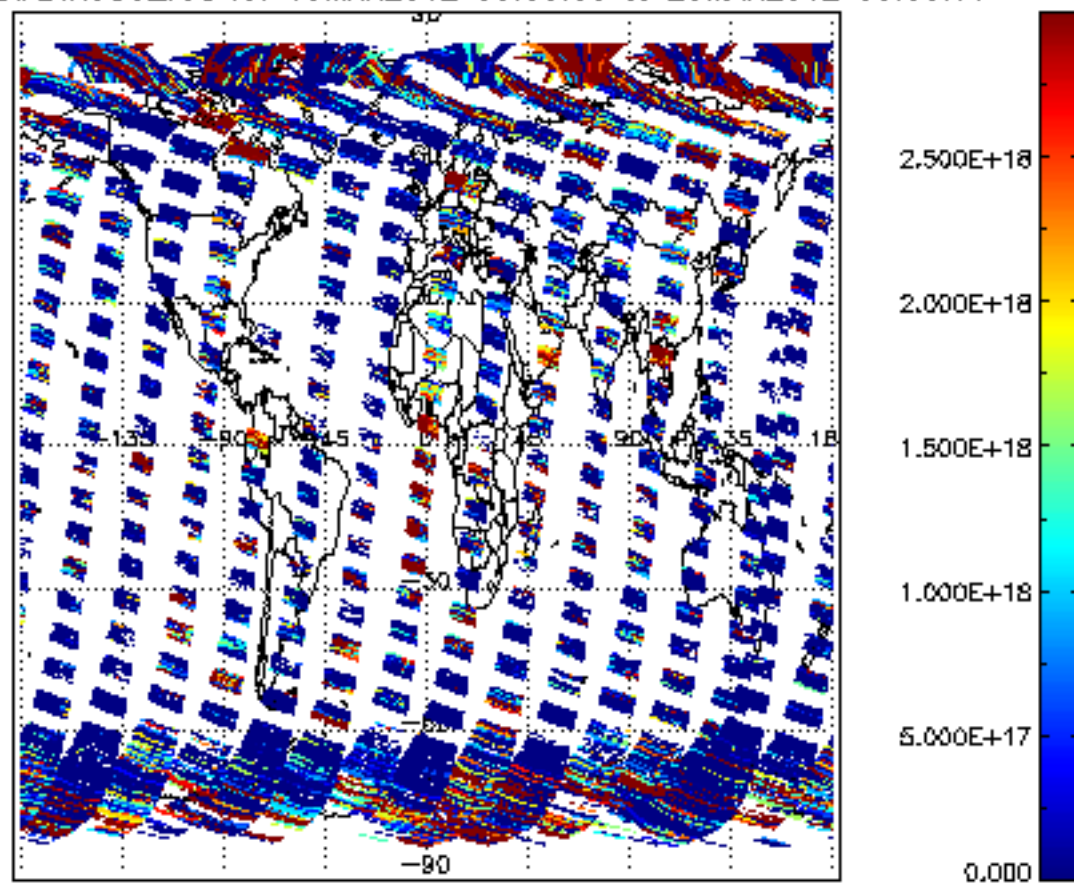
CIOL2P_NADUV6OCL_slant_coLden for 19MAR2012 00:00:00 to 20MAR2012 00:00:00 sp; CIOL2P_NADUV6OCL_err_slant_col for 19MAR2012 00:00:00 to 20MAR2012 00:00:00 sp



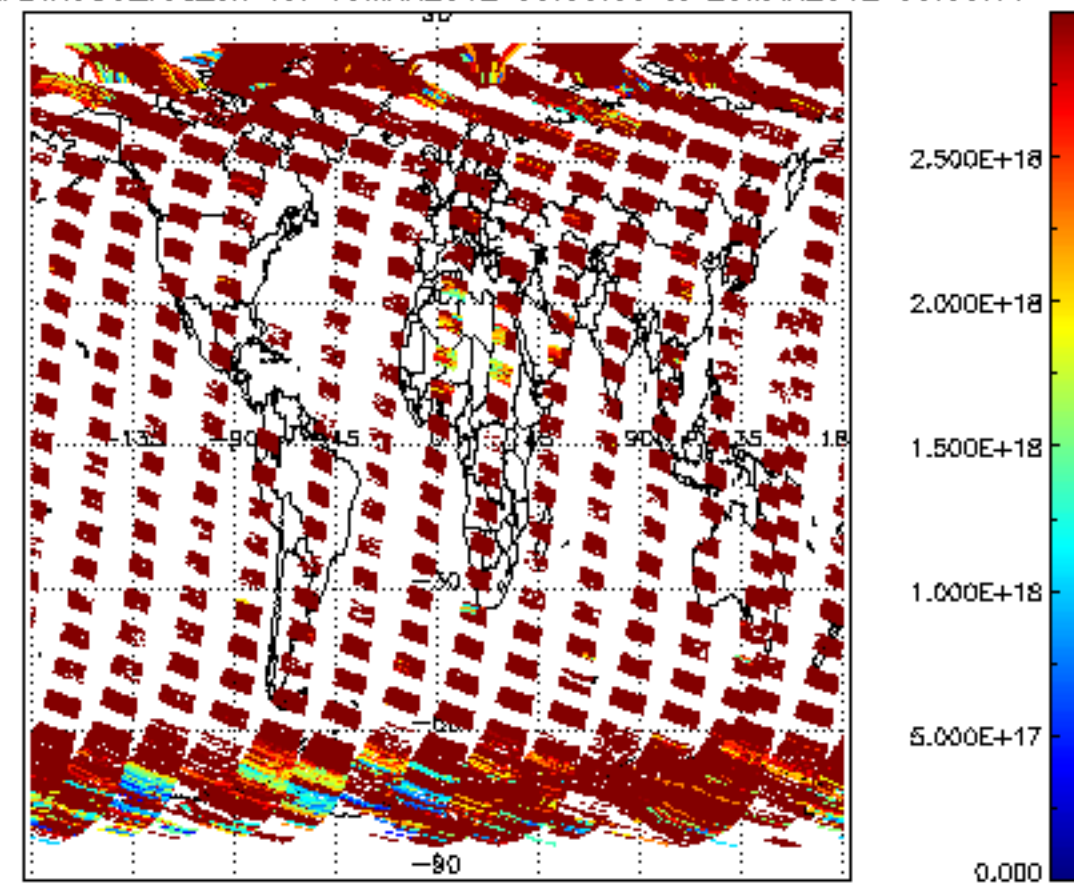




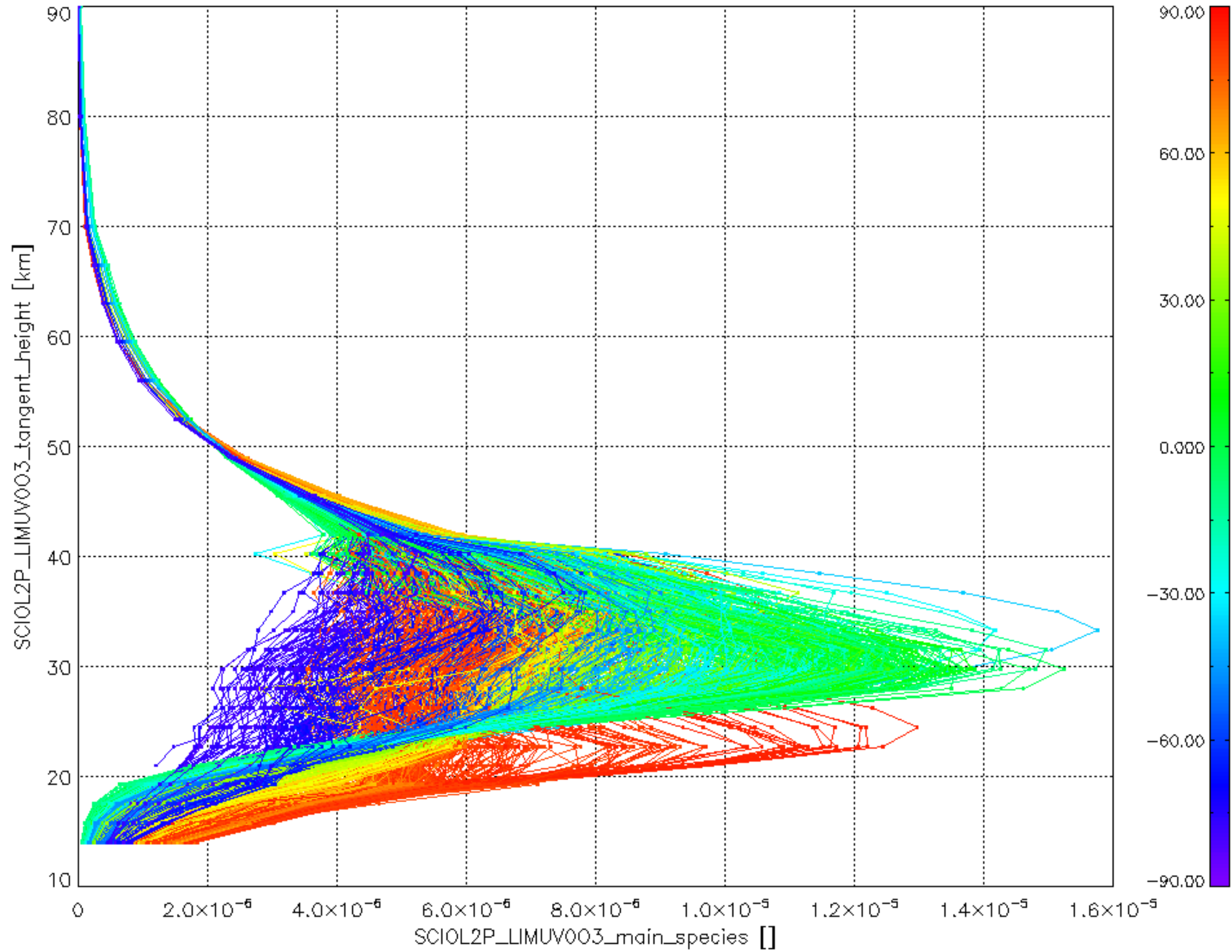
SCIOL2P_NADIR3CO_vcd for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



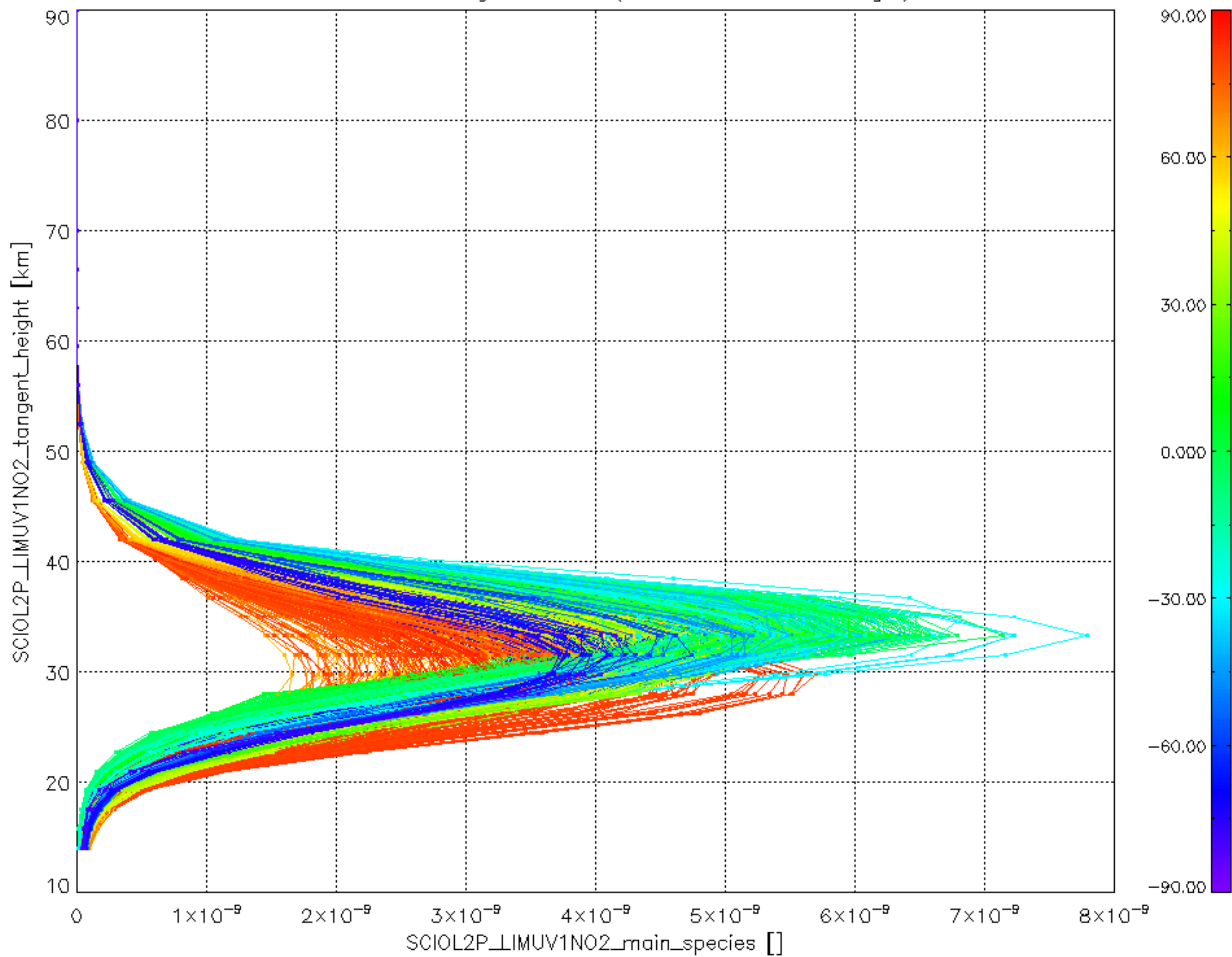
SCIOL2P_NADIR3CO_vcd_err for 19MAR2012 00:00:00 to 20MAR2012 00:00:00



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).

