

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	11APR2012 03:27:57
Data source version	SCIA-OL/5.02-W
Processing scope for products	30MAR2012 00:00:00 to 31MAR2012 00:00:00
Start time of first product within scope	29MAR2012 23:35:27
Stop time of last product within scope	30MAR2012 23:52:35
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__2PWDPA20120329_233527_000032133113_00131_52731_4213.N1	29MAR2012 23:35:27	30MAR2012 00:29:01	0	GOOD
1	SCI_OL__2PWDPA20120330_011636_000031453113_00132_52732_4214.N1	30MAR2012 01:16:36	30MAR2012 02:09:02	0	GOOD
2	SCI_OL__2PWDPA20120330_025102_000035303113_00133_52733_4215.N1	30MAR2012 02:51:02	30MAR2012 03:49:53	0	GOOD
3	SCI_OL__2PWDPA20120330_043116_000035163113_00134_52734_4216.N1	30MAR2012 04:31:16	30MAR2012 05:29:52	0	GOOD
4	SCI_OL__2PWDPA20120330_061129_000035303113_00135_52735_4217.N1	30MAR2012 06:11:29	30MAR2012 07:10:20	0	GOOD

5	SCI_OL__2PWDP	A20120330_075143_000035163113_00136_52736_4218.N1	30MAR2012 07:51:43	30MAR2012 08:50:19	0	GOOD
6	SCI_OL__2PWDP	A20120330_093156_000035303113_00137_52737_4219.N1	30MAR2012 09:31:56	30MAR2012 10:30:47	0	GOOD
7	SCI_OL__2PWDP	A20120330_111210_000035163113_00138_52738_4220.N1	30MAR2012 11:12:10	30MAR2012 12:10:46	0	GOOD
8	SCI_OL__2PWDP	A20120330_125223_000035303113_00139_52739_4221.N1	30MAR2012 12:52:23	30MAR2012 13:51:14	0	GOOD
9	SCI_OL__2PWDP	A20120330_143236_000035163113_00140_52740_4222.N1	30MAR2012 14:32:36	30MAR2012 15:31:13	0	GOOD
10	SCI_OL__2PWDP	A20120330_161250_000035303113_00141_52741_4223.N1	30MAR2012 16:12:50	30MAR2012 17:11:41	0	GOOD
11	SCI_OL__2PWDP	A20120330_175359_000034803113_00142_52742_4224.N1	30MAR2012 17:53:59	30MAR2012 18:52:00	0	GOOD
12	SCI_OL__2PWDP	A20120330_193332_000034613113_00143_52743_4225.N1	30MAR2012 19:33:32	30MAR2012 20:31:14	0	GOOD
13	SCI_OL__2PWDP	A20120330_211331_000035163113_00144_52744_4226.N1	30MAR2012 21:13:31	30MAR2012 22:12:07	0	GOOD
14	SCI_OL__2PWDP	A20120330_225344_000035303113_00145_52745_4227.N1	30MAR2012 22:53:44	30MAR2012 23:52:35	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 %)

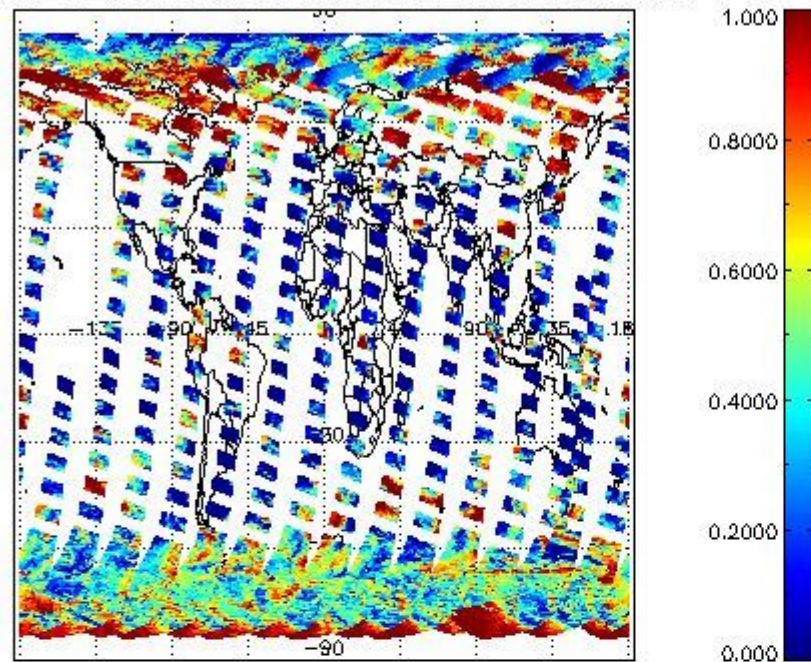
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	164840	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	164840	0.16483	0.12500	0.12500	0.25000	0.058242	s
CL_FRAC	164840	0.45651	0.42743	0.0000	1.0000	0.33579	
CL_FRAC_ERR	164840	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	164840	5.2744	4.0000	4.0000	8.0000	1.8638	
PMD_READ_CL[0]	164840	0.70003	0.0000	0.0000	8.0000	1.6010	-
PMD_READ_CL[1]	164840	1.2182	0.0000	0.0000	8.0000	2.4951	-
CL_TOP_HEIGHT	132203	3.3541	1.8190	0.0000	17.000	3.6459	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	132203	65.032	100.00	0.0000	101.00	41.304	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	164840	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	164840	11001100	11000100	11000000	11100000	3472.4	
AERO_ABSO_IND	164840	0.074359	0.0000	0.0000	6.1424	0.26863	
AERO_IND_DIAG	164840	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	164840	01010011	00000000	00000000	11000000	24365.	

Time and geolocation plots:

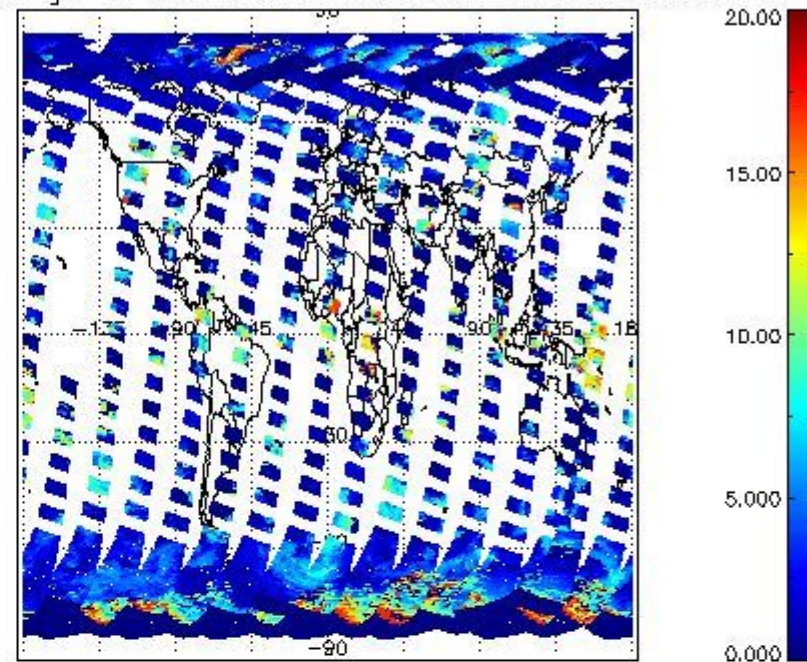
Plots are available for the following parameters:

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

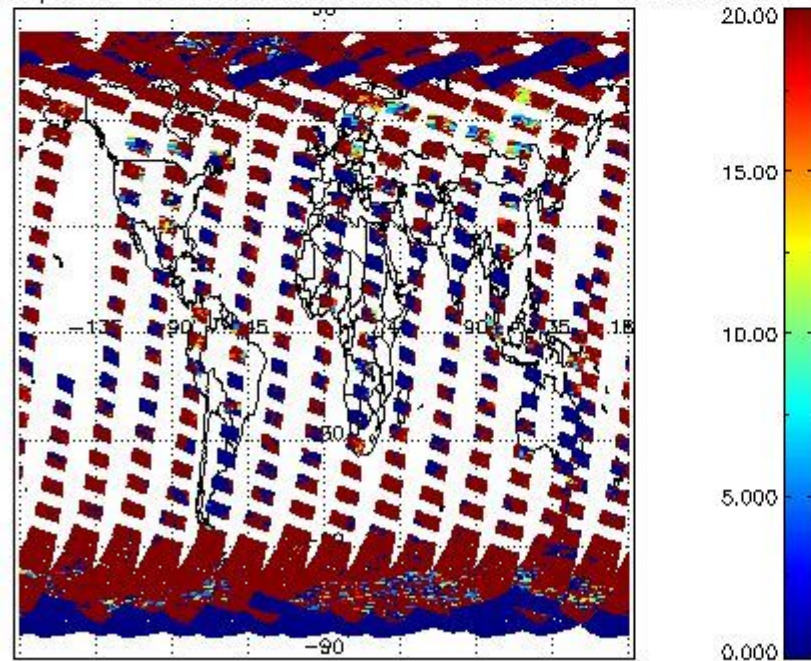
cL_frac for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



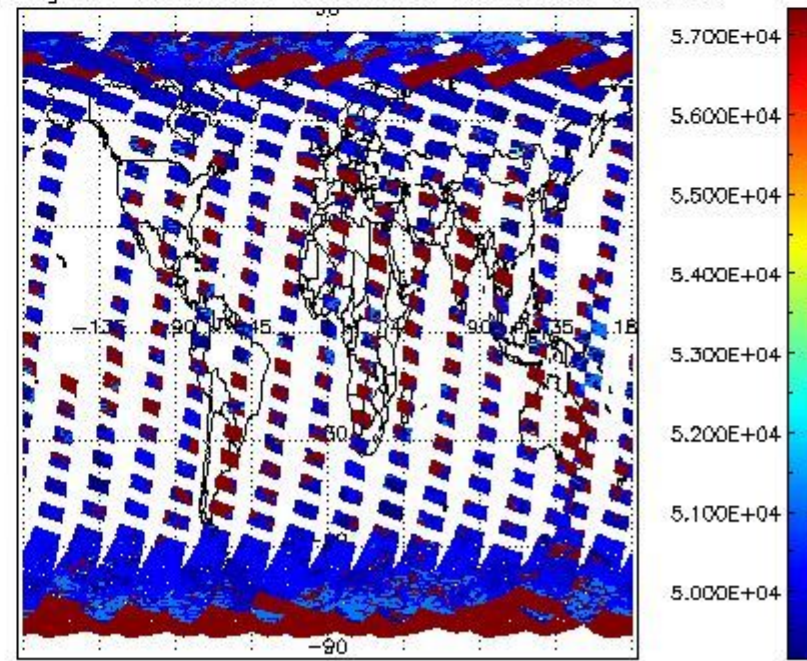
cL_top_height for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



cL_opt_depth for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



cloud_flags for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



2.2.2 Nadir

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

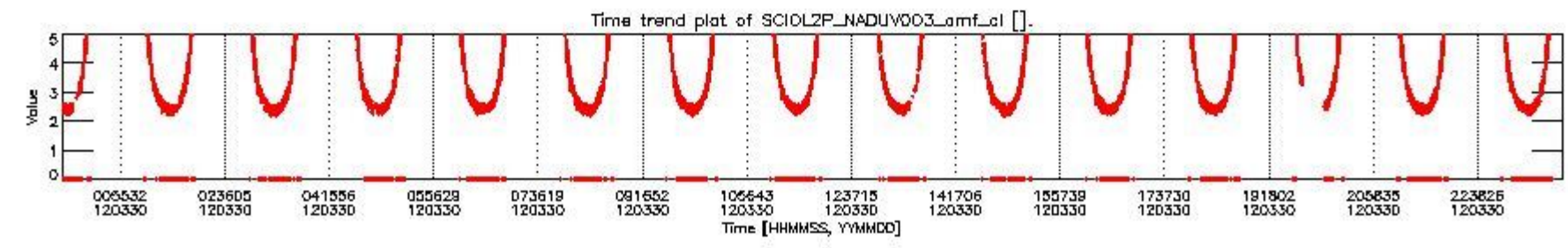
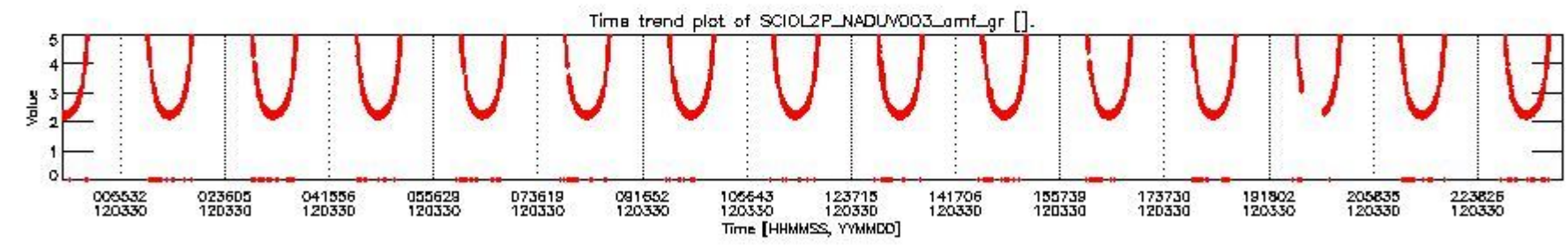
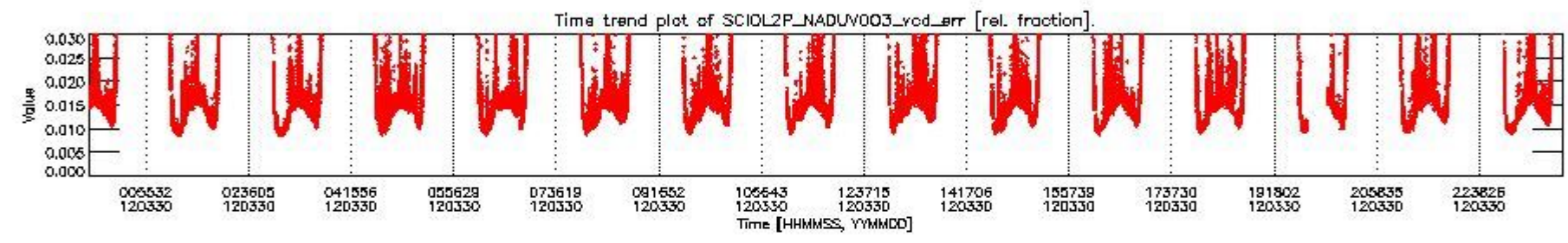
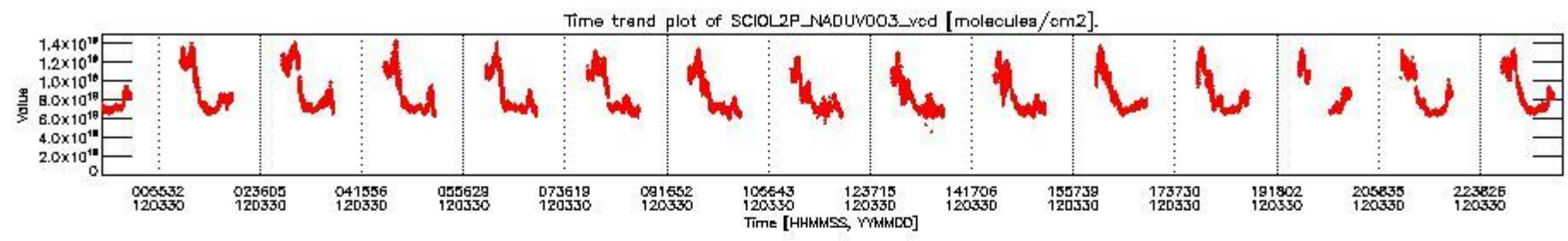
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

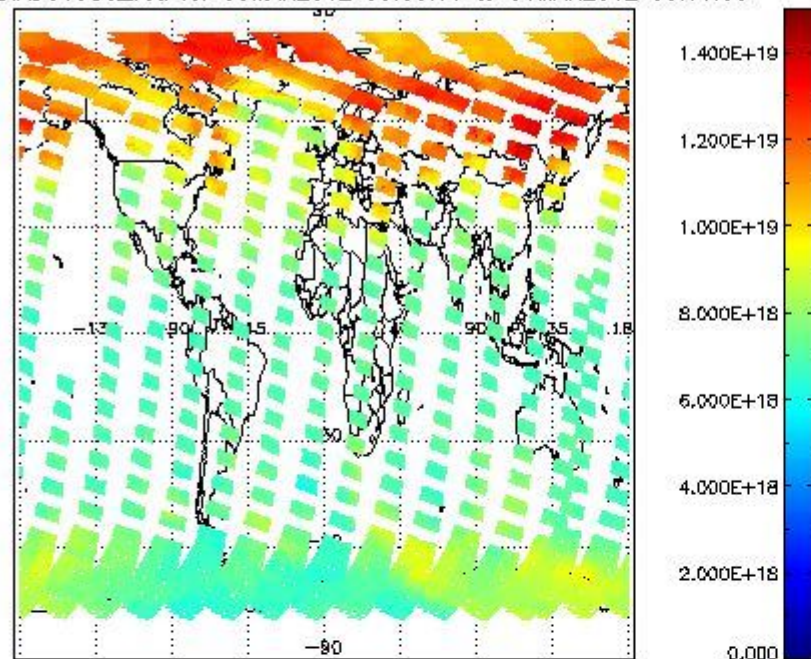
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

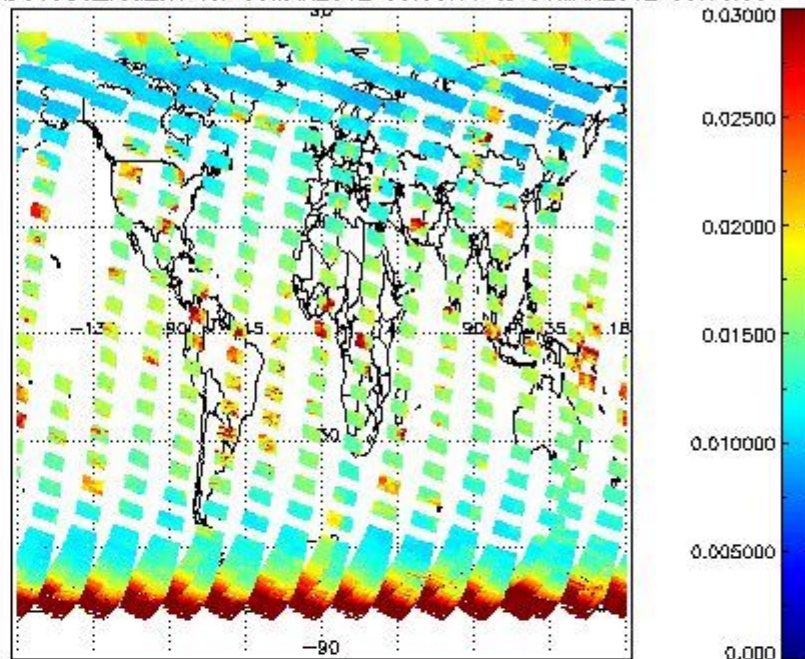
2.2.2.1 O3 (UV0)



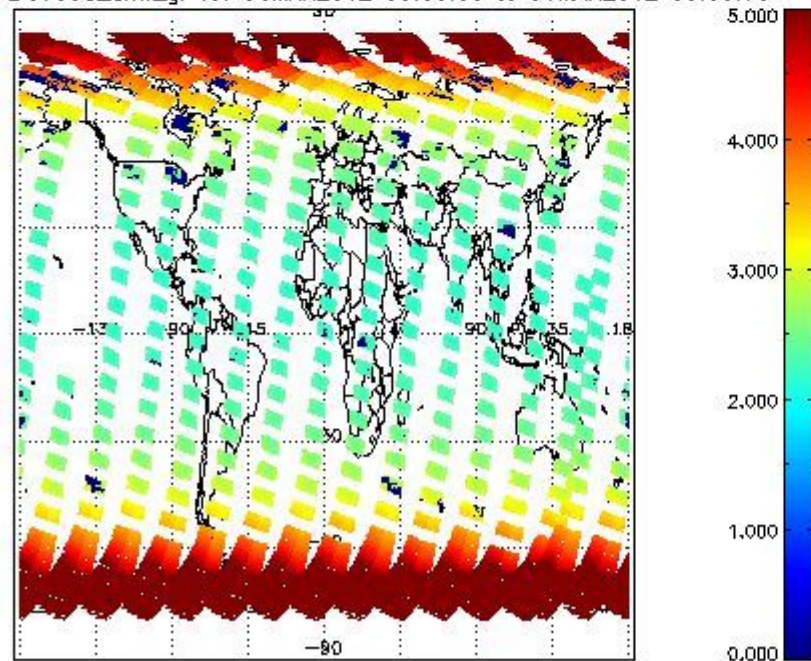
SCIOL2P_NADUV003_vcd for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



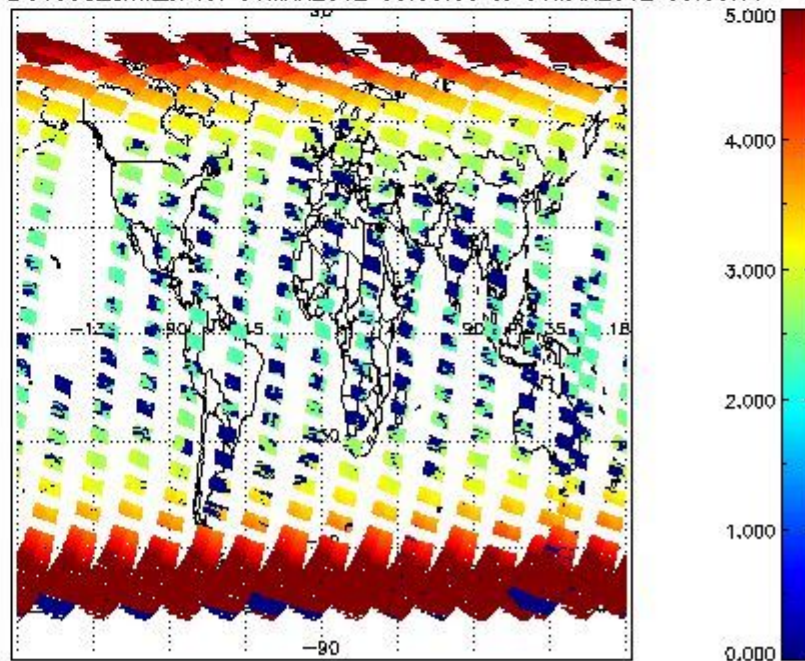
SCIOL2P_NADUV003_vcd_err for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



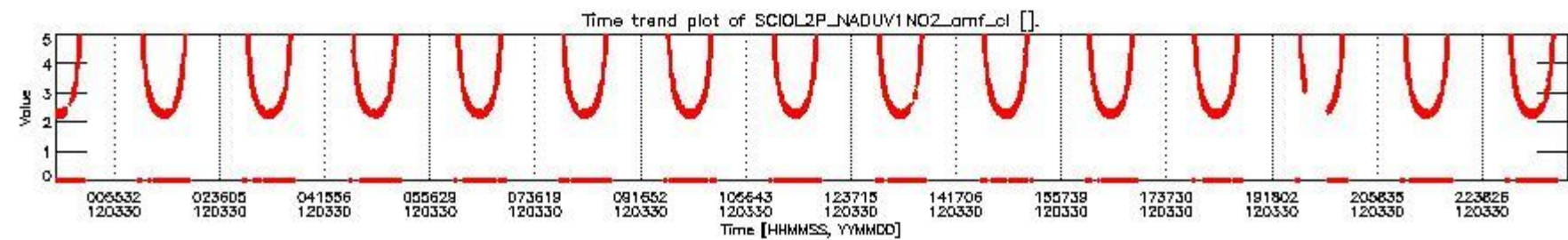
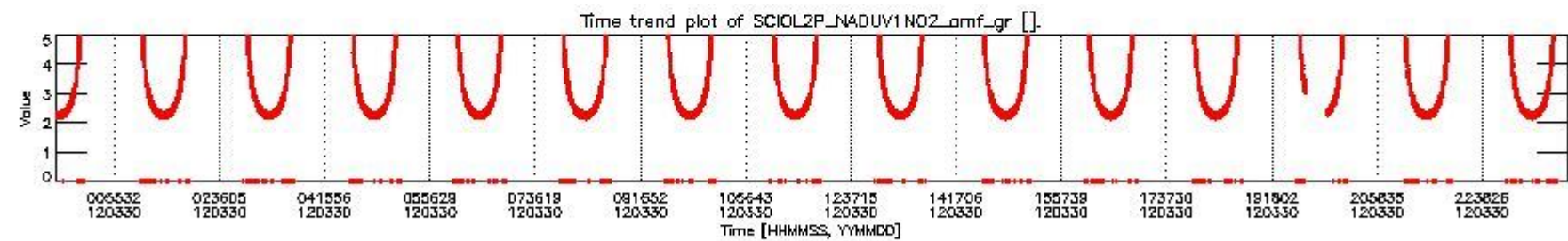
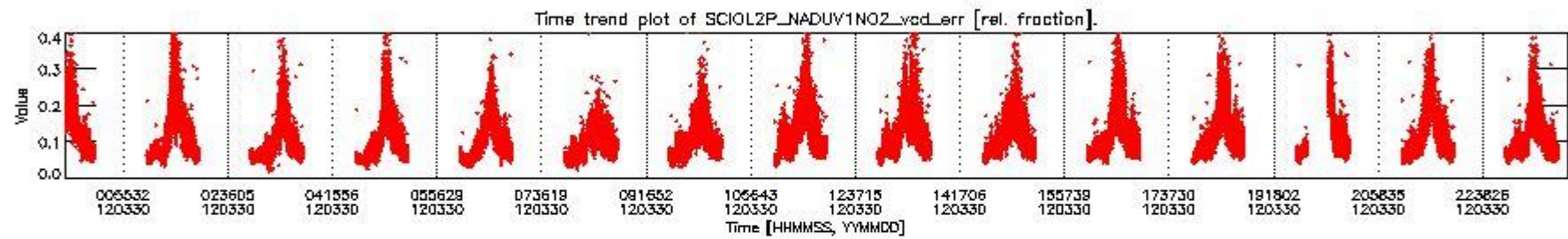
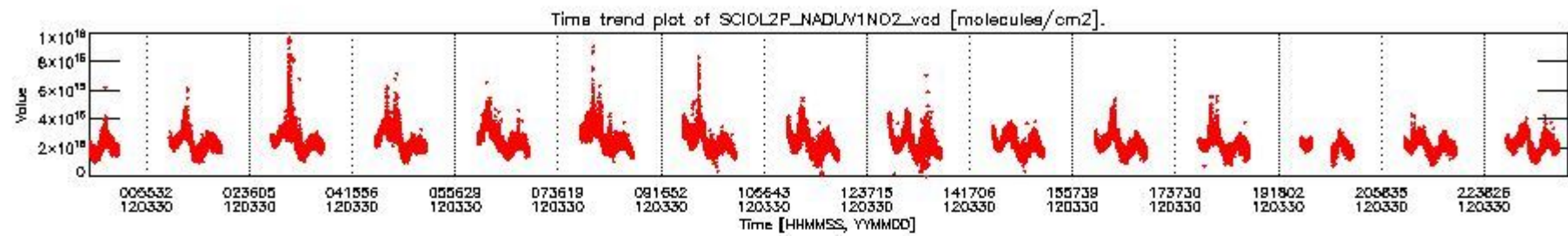
SCIOL2P_NADUV003_amf_gr for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



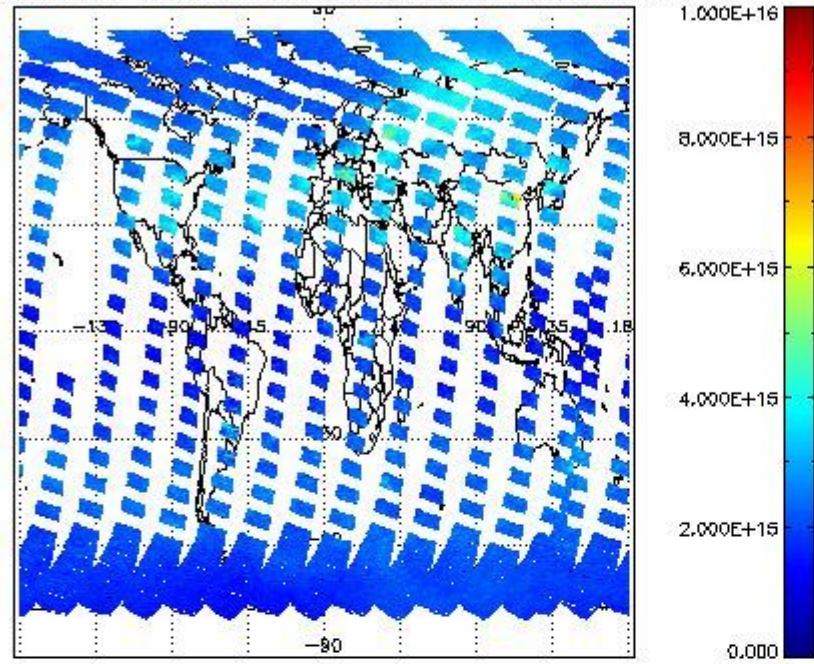
SCIOL2P_NADUV003_amf_cl for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



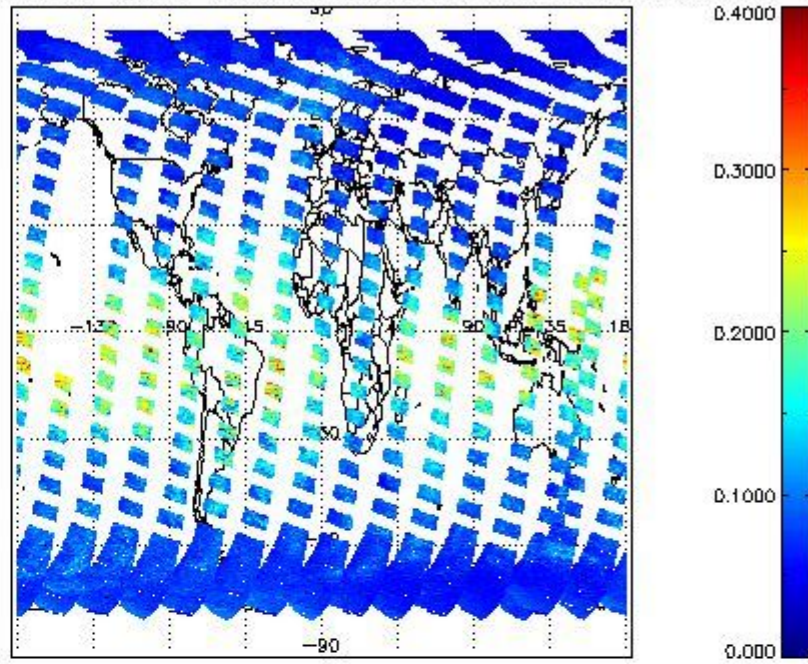
2.2.2.2 NO2 (UV1)



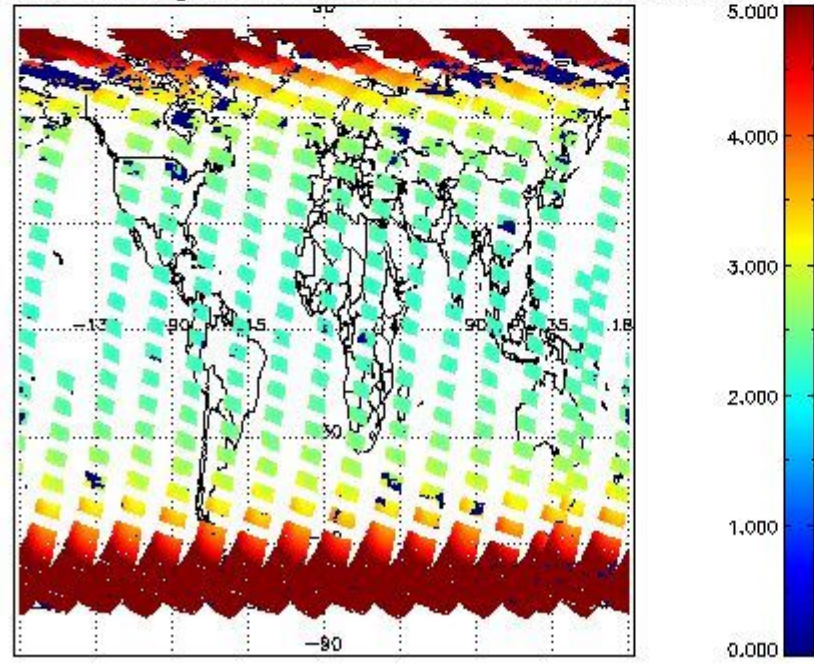
SCIOL2P_NADUV1NO2_vcd for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



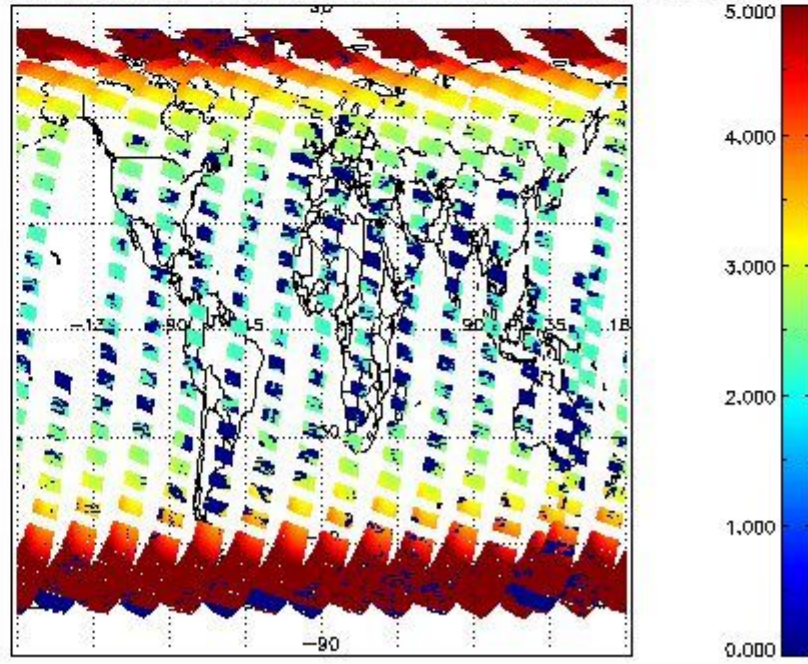
SCIOL2P_NADUV1NO2_vcd_err for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



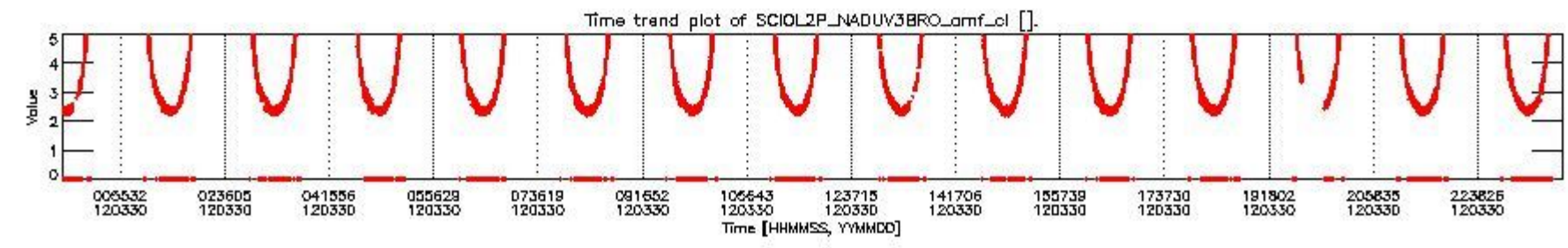
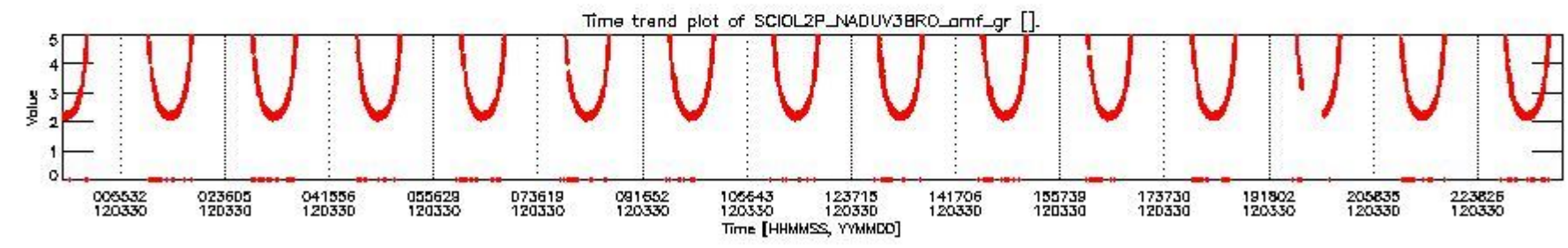
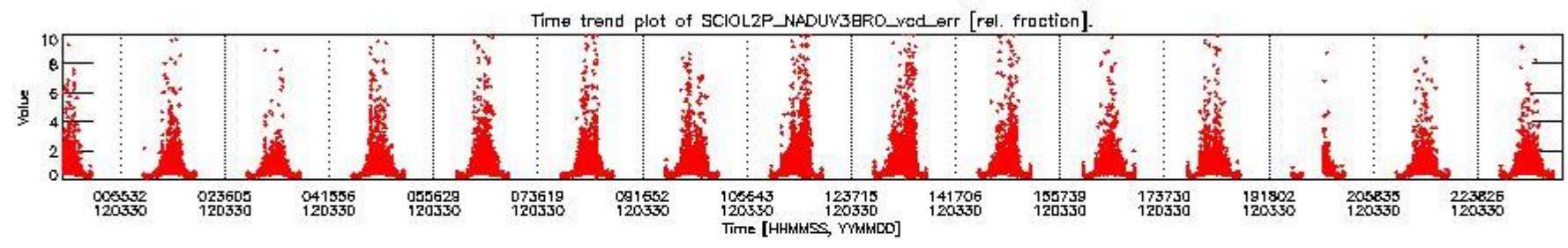
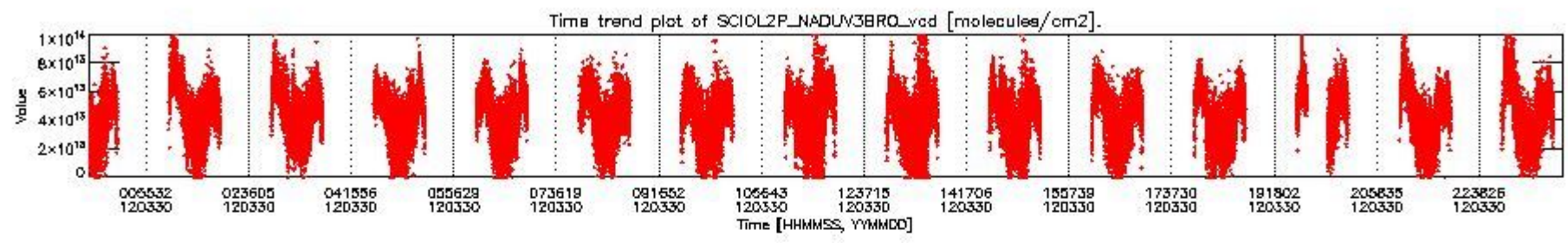
SCIOL2P_NADUV1NO2_amf_gr for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



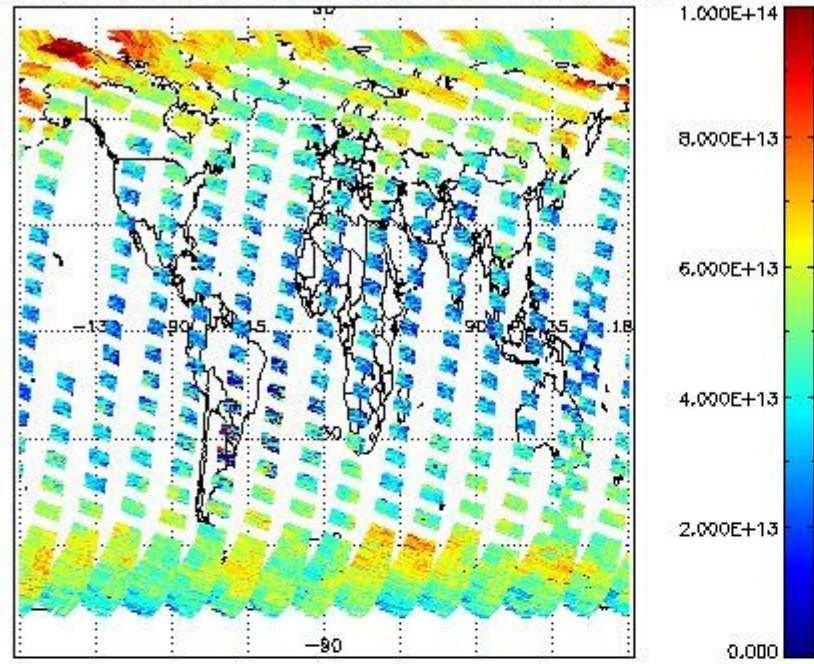
SCIOL2P_NADUV1NO2_amf_cl for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



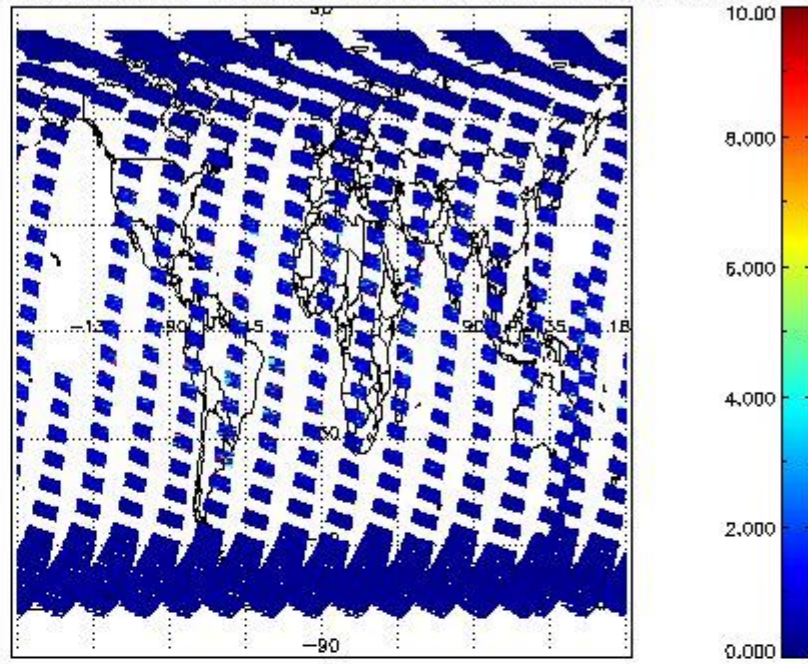
2.2.2.3 BrO (UV3)



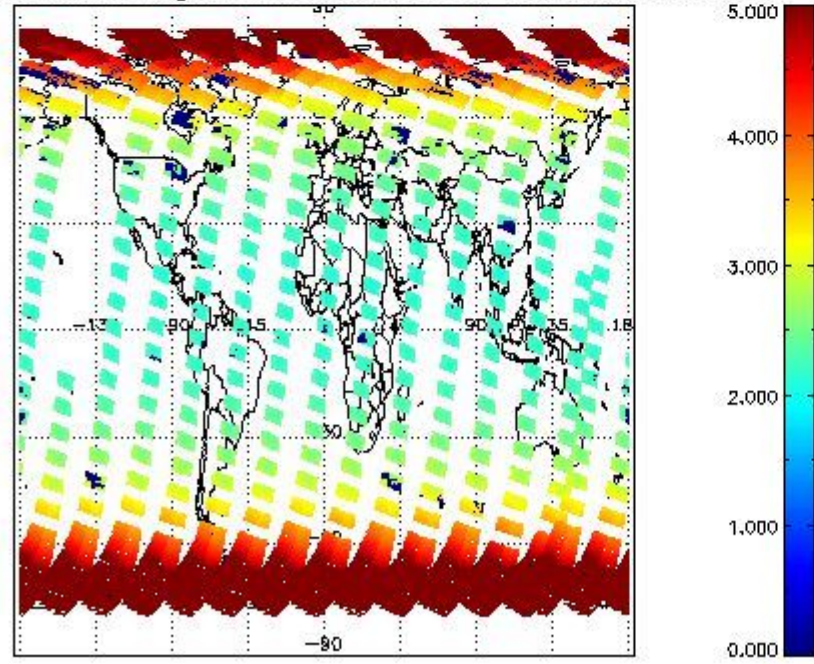
SCIOL2P_NADUV3BRO_vcd for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



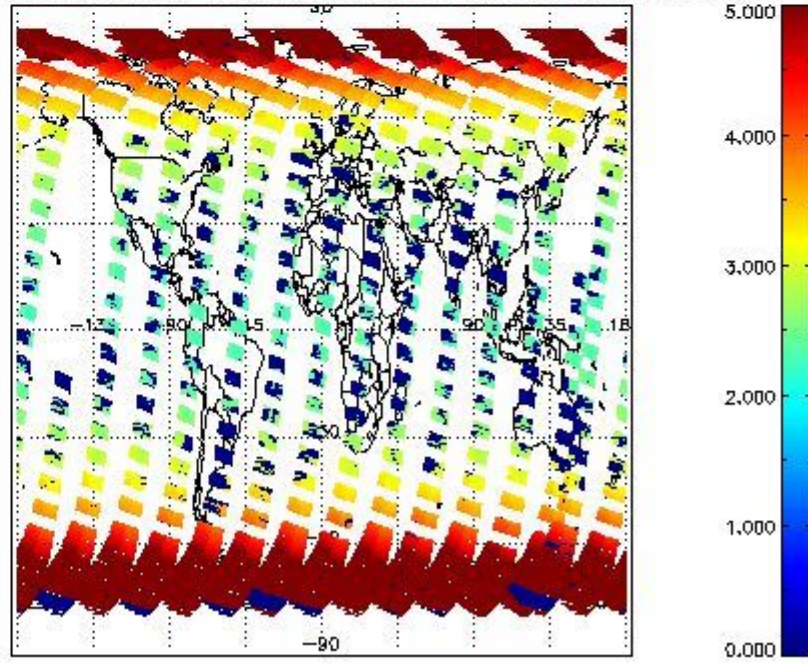
SCIOL2P_NADUV3BRO_vcd_err for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



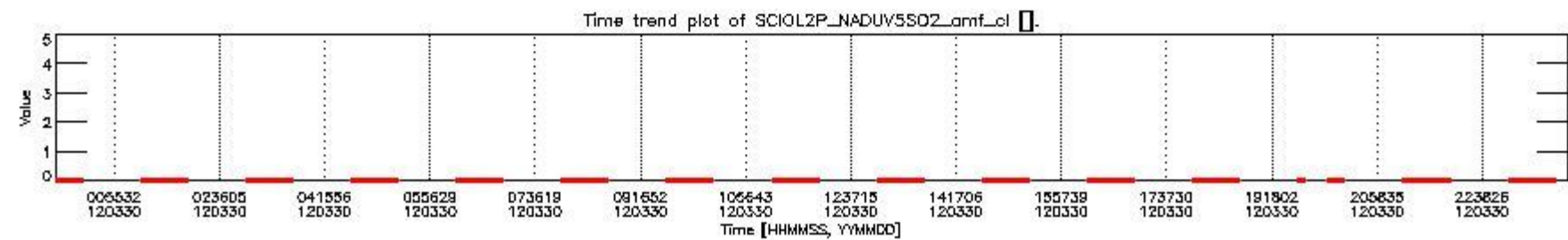
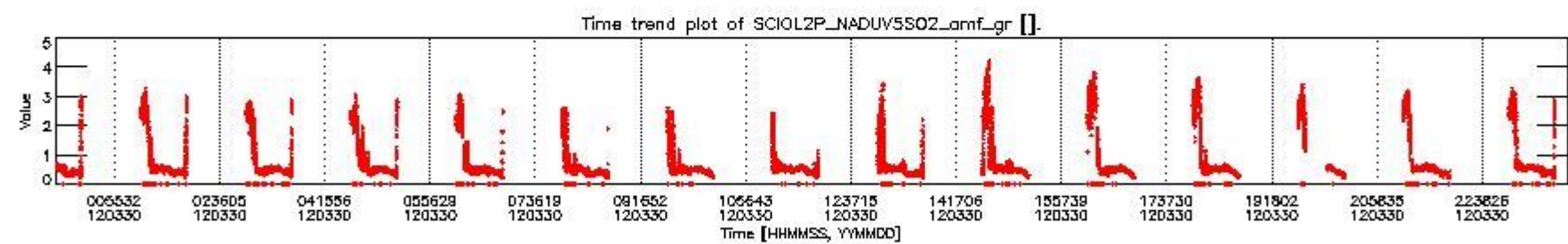
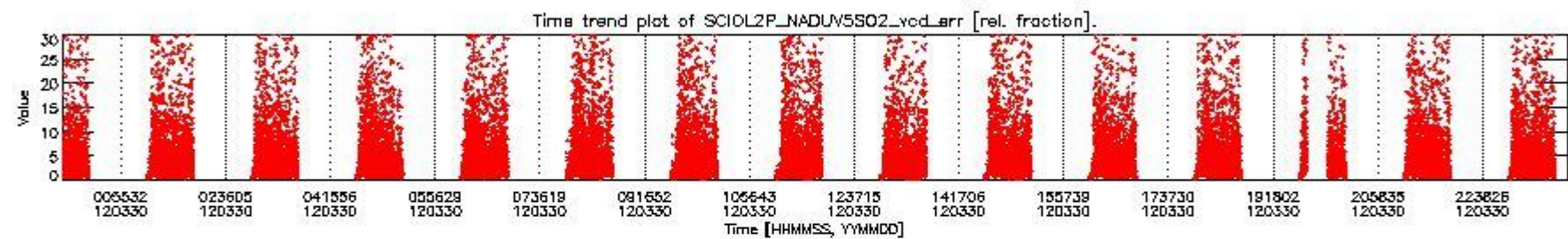
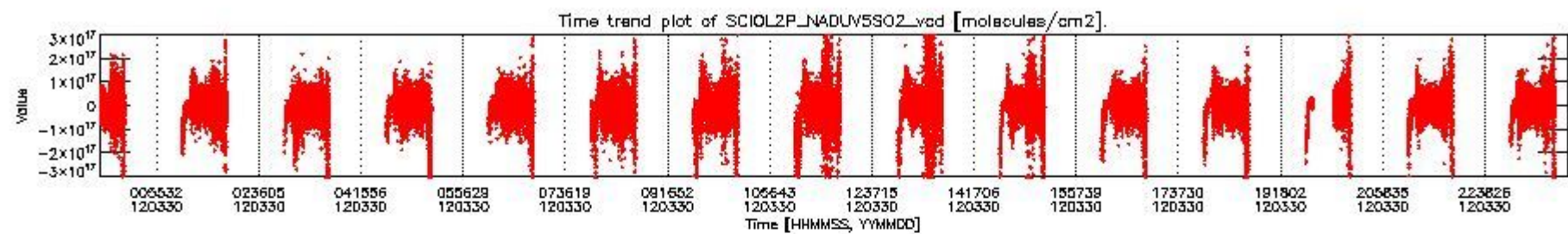
SCIOL2P_NADUV3BRO_amf_gr for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



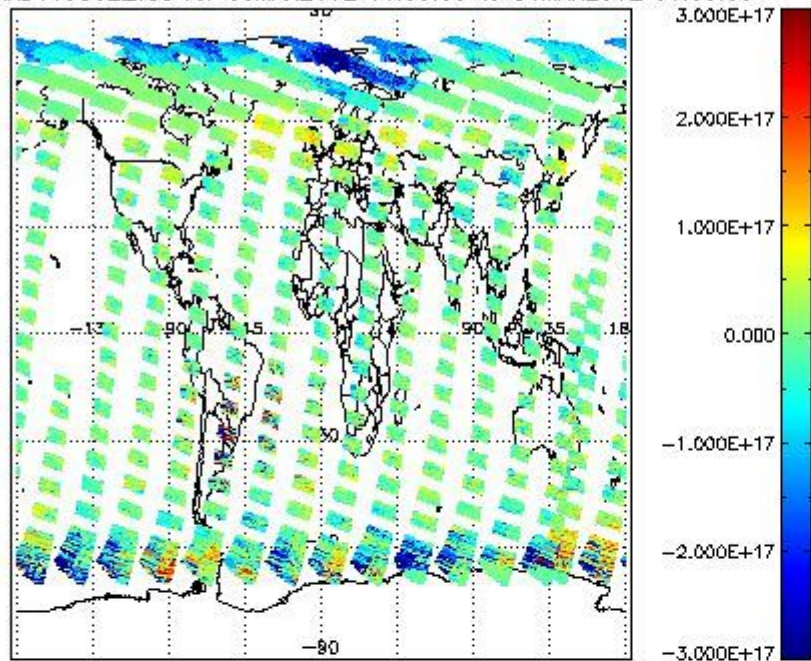
SCIOL2P_NADUV3BRO_amf_cl for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



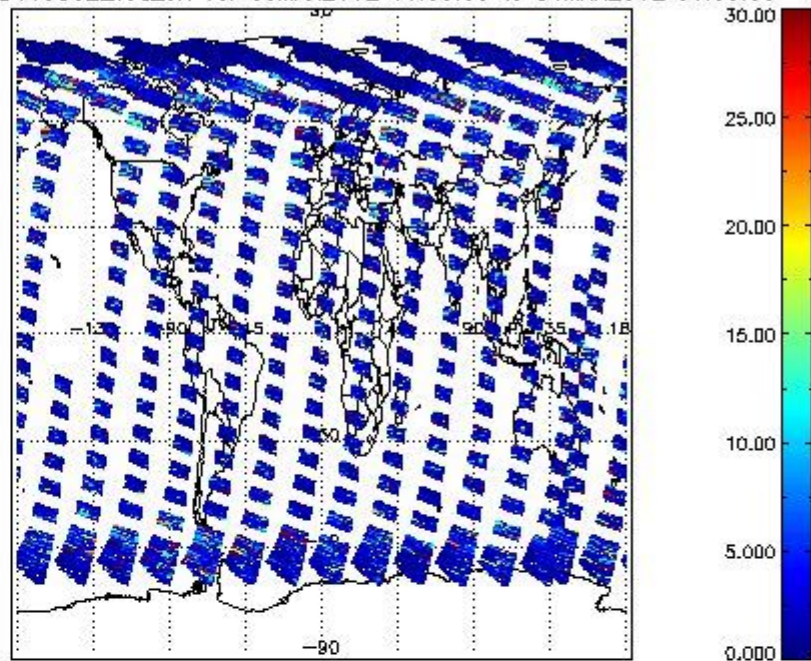
2.2.2.4 SO2 (UV5)



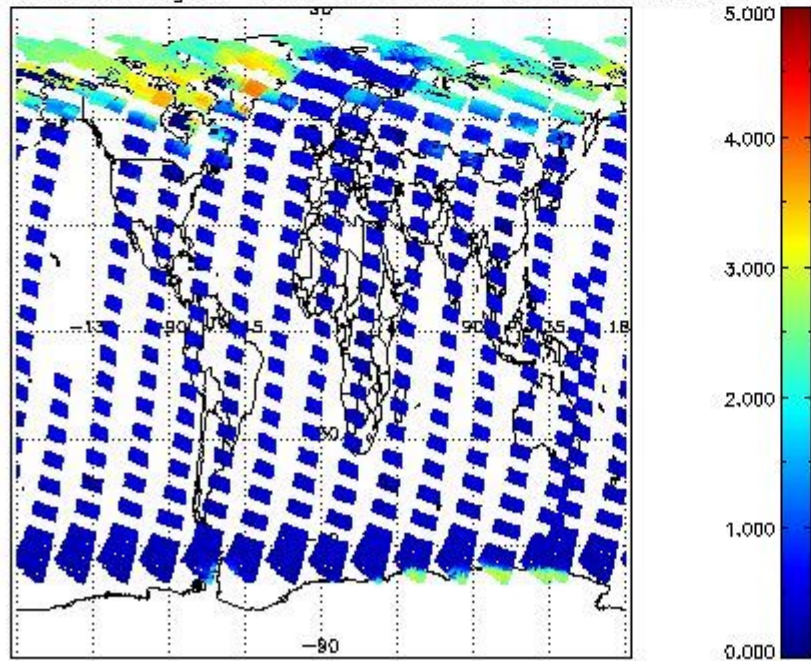
SCIOL2P_NADUV5SO2_vcd for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



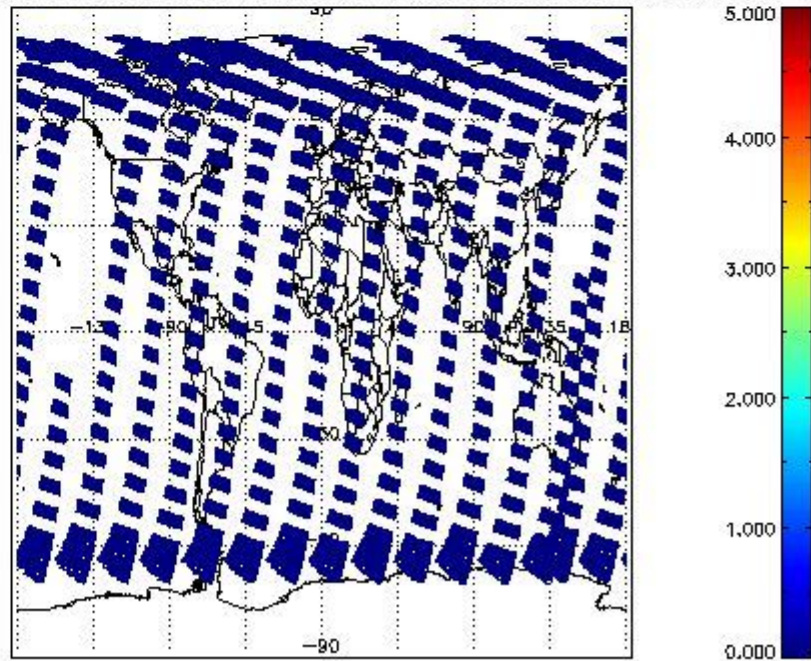
SCIOL2P_NADUV5SO2_vcd_err for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



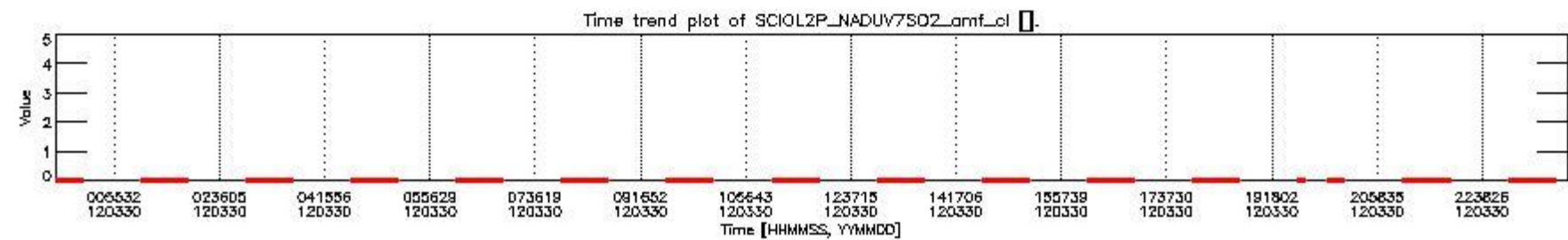
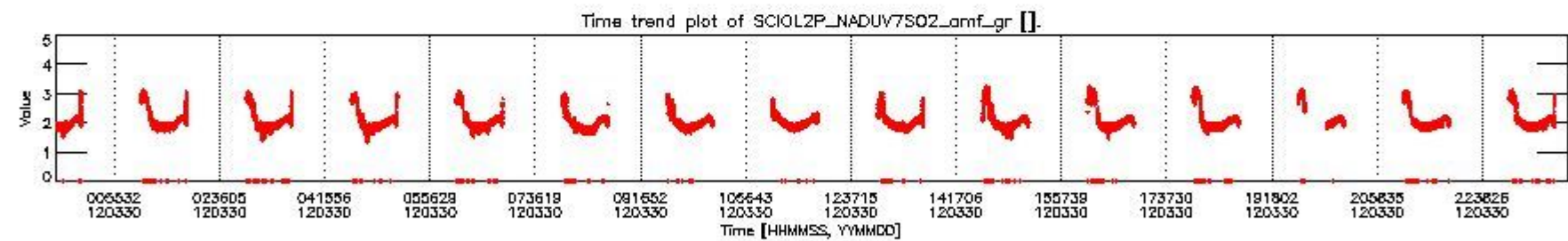
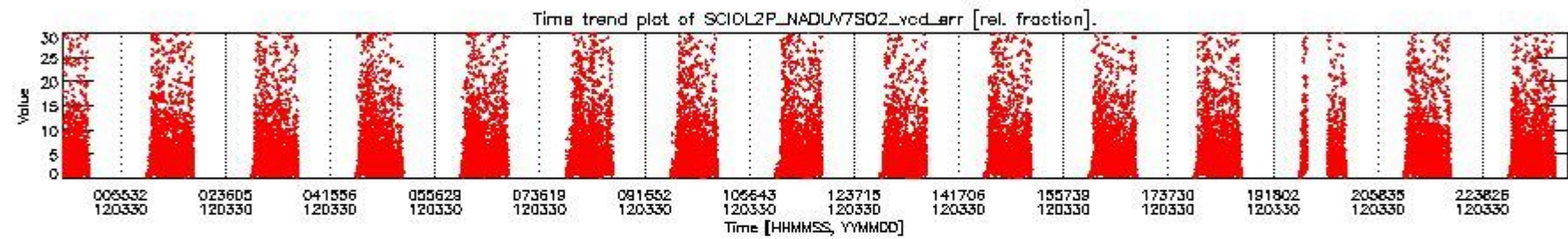
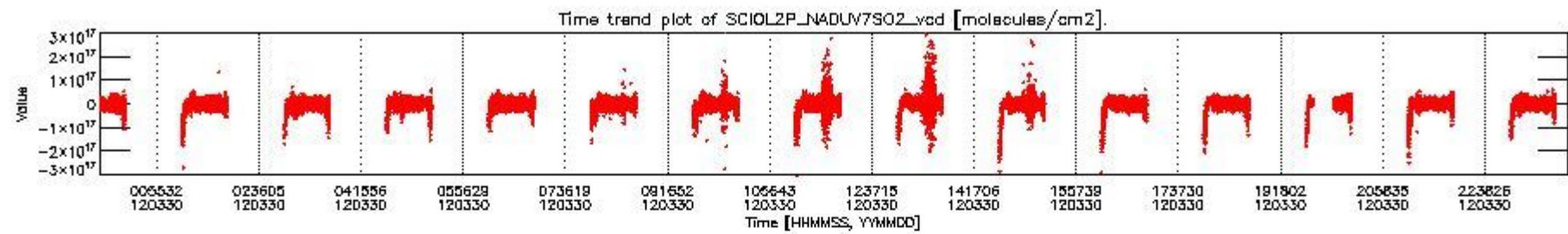
SCIOL2P_NADUV5SO2_amf_gr for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



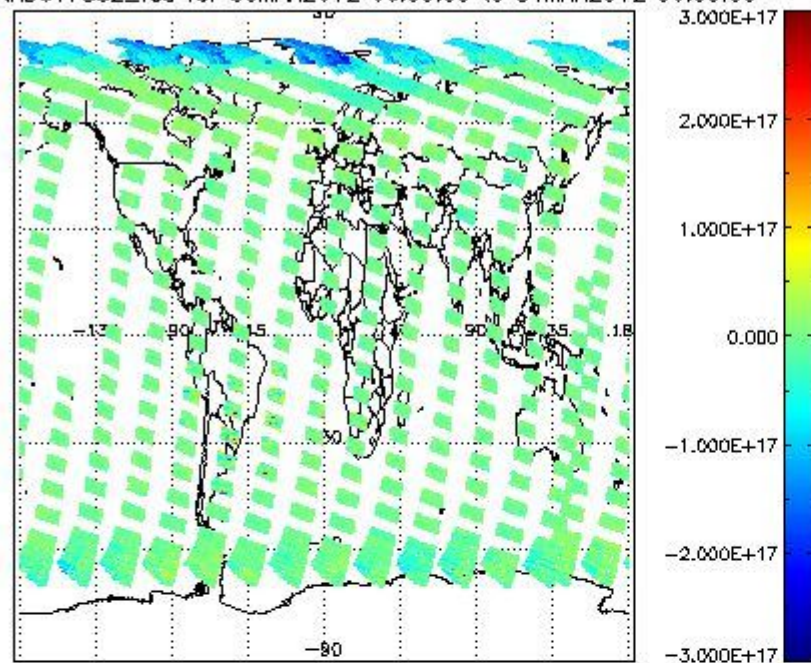
SCIOL2P_NADUV5SO2_amf_cl for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



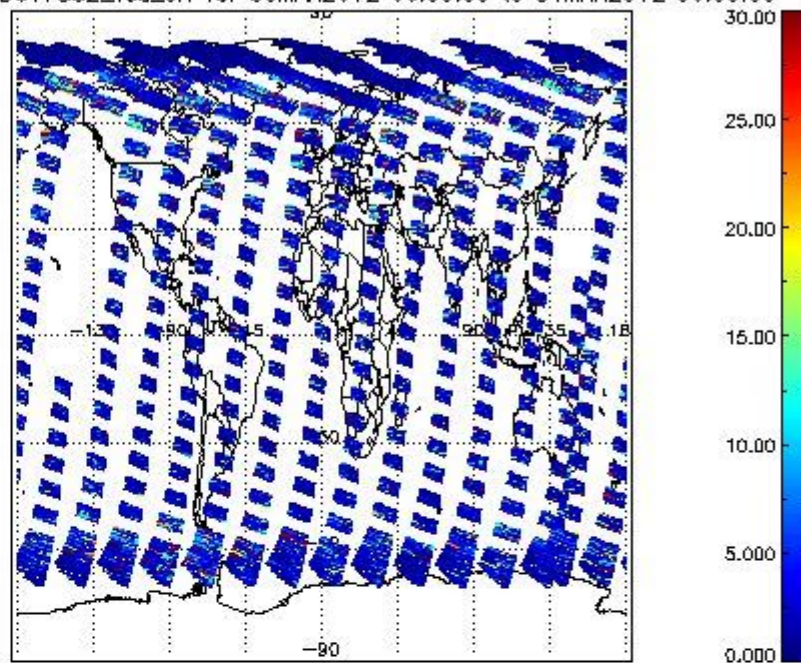
2.2.2.5 SO2 (UV7)



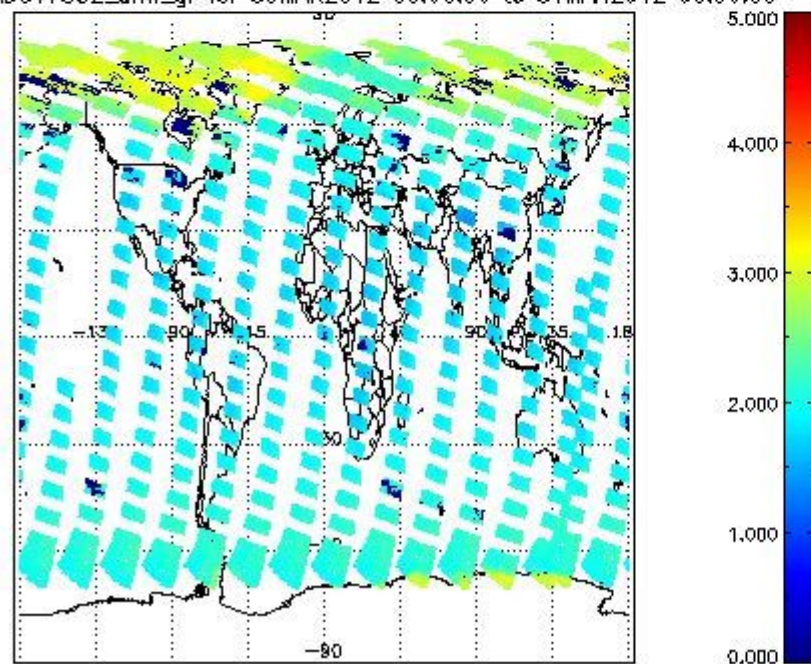
SCIOL2P_NADUV7S02_vcd for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



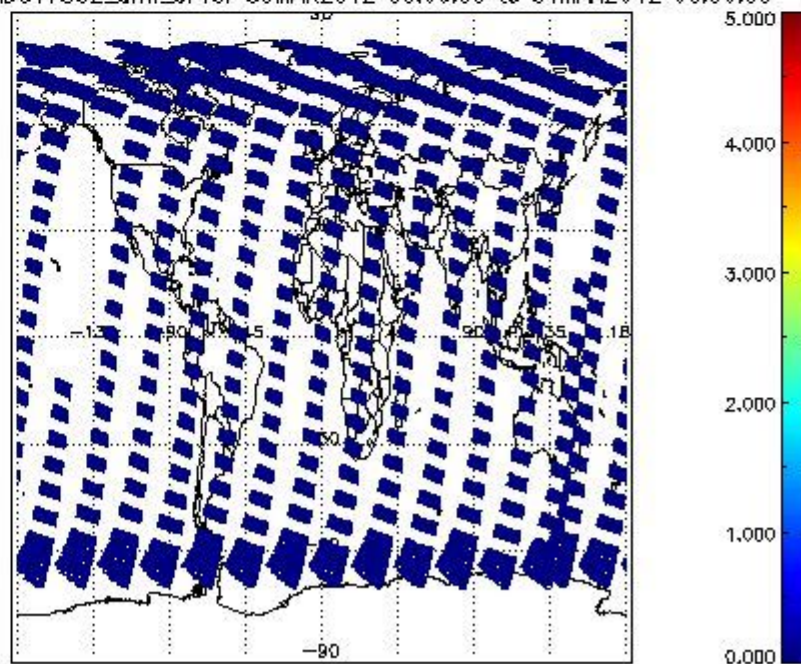
SCIOL2P_NADUV7S02_vcd_err for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



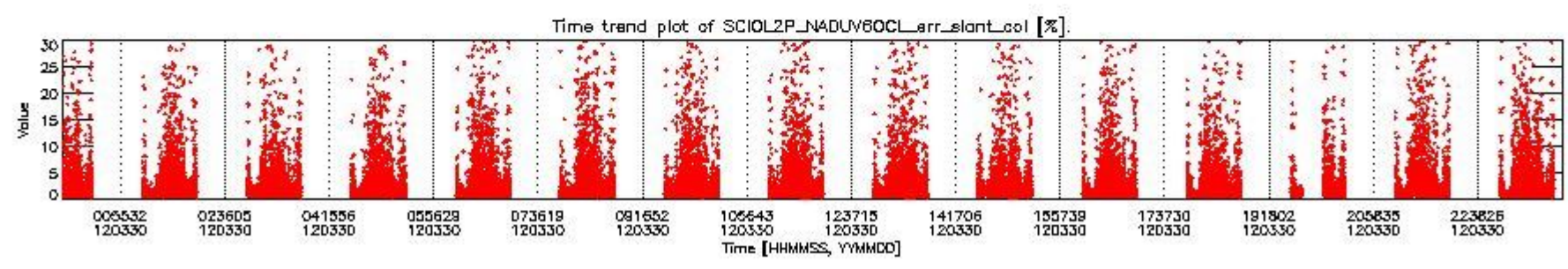
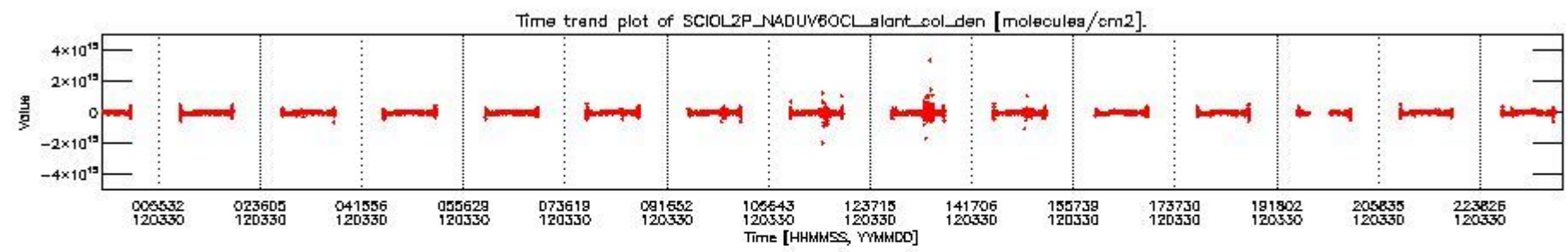
SCIOL2P_NADUV7S02_amf_gr for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



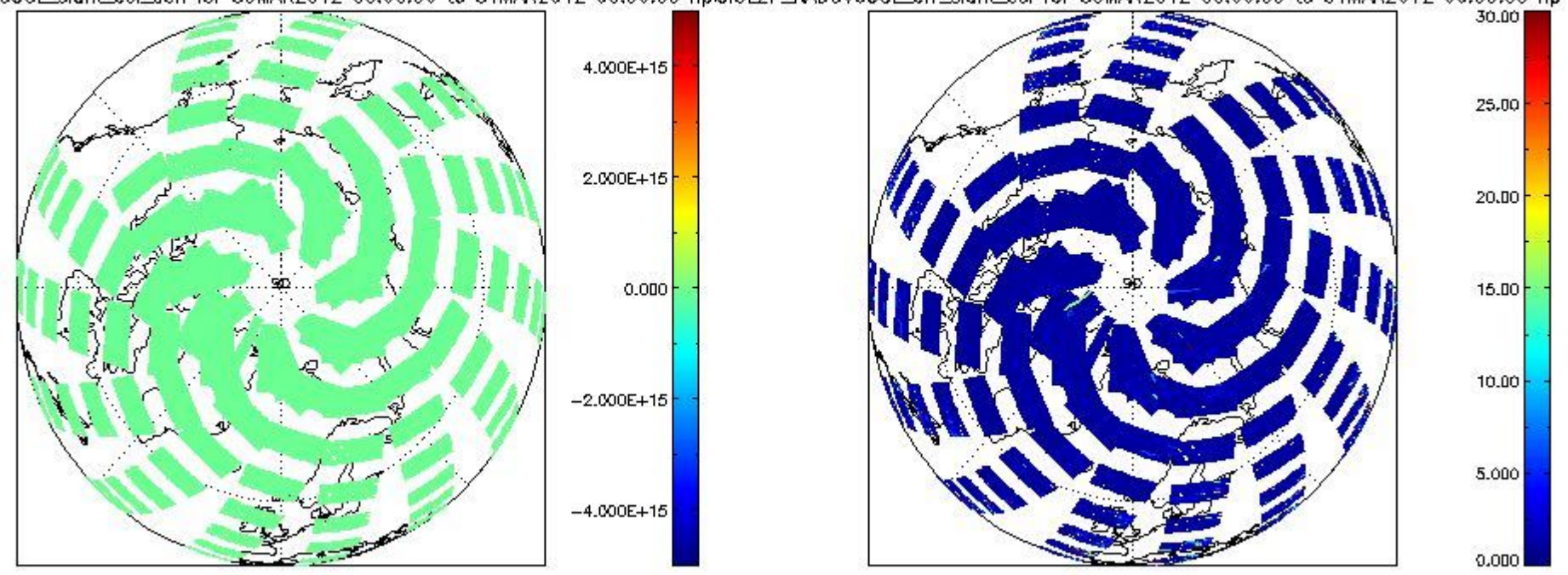
SCIOL2P_NADUV7S02_amf_cl for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



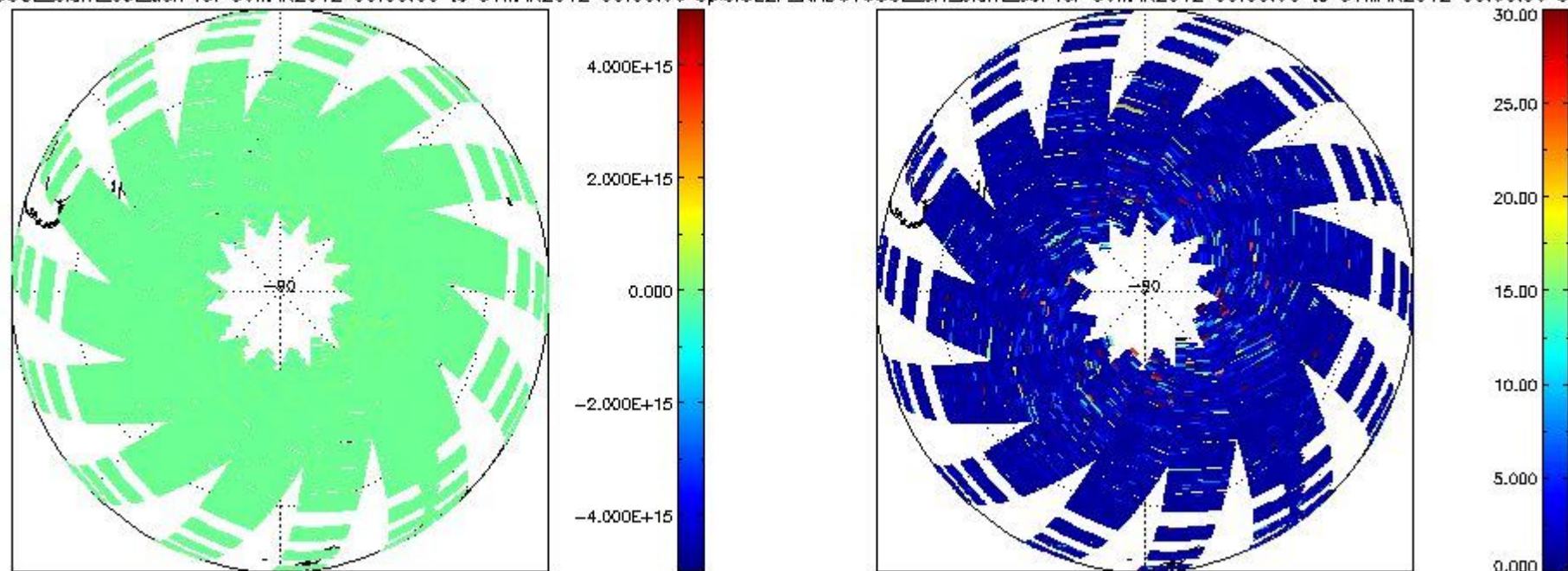
2.2.2.6 OCIO (UV6)



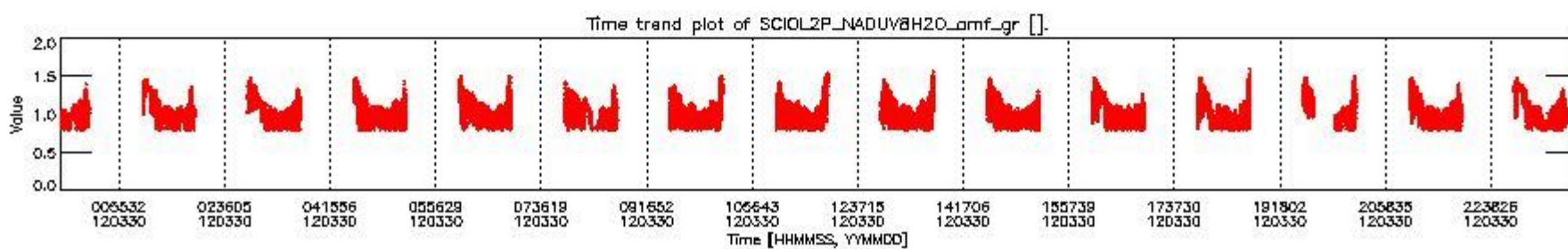
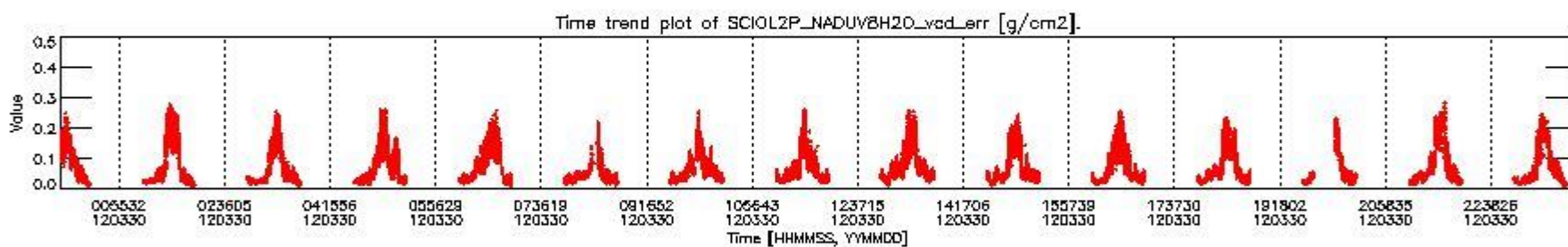
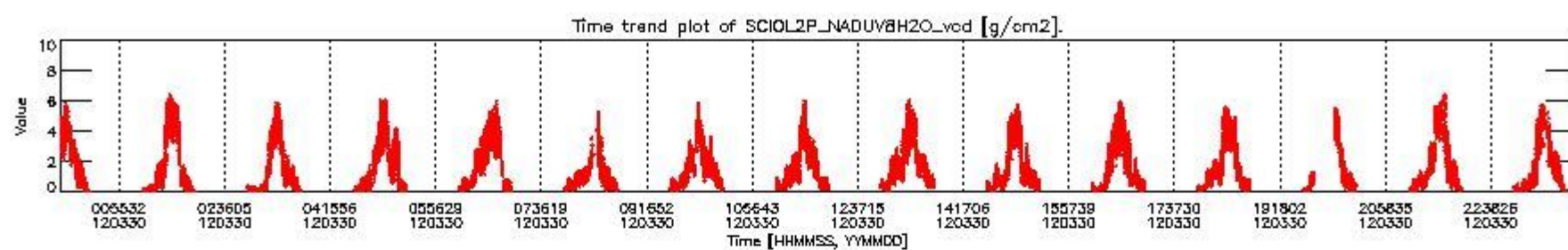
CIOL2P_NADUV6OCL_slant_col_den for 30MAR2012 00:00:00 to 31MAR2012 00:00:00 np CIOL2P_NADUV6OCL_err_slant_col for 30MAR2012 00:00:00 to 31MAR2012 00:00:00 np



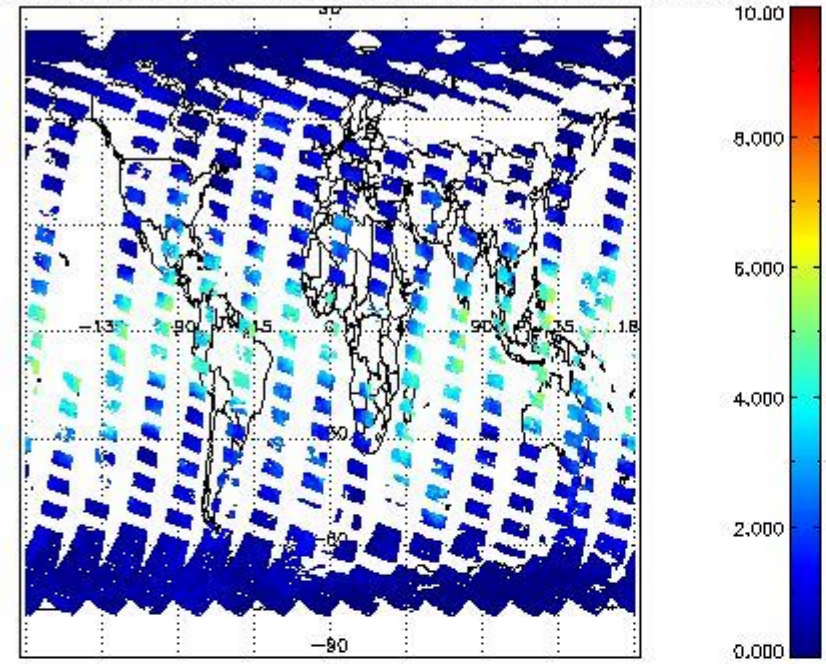
CIOL2P_NADUV6OCL_slant_colDen for 30MAR2012 00:00:00 to 31MAR2012 00:00:00 spCIOL2P_NADUV6OCL_err_slant_col for 30MAR2012 00:00:00 to 31MAR2012 00:00:00 sp



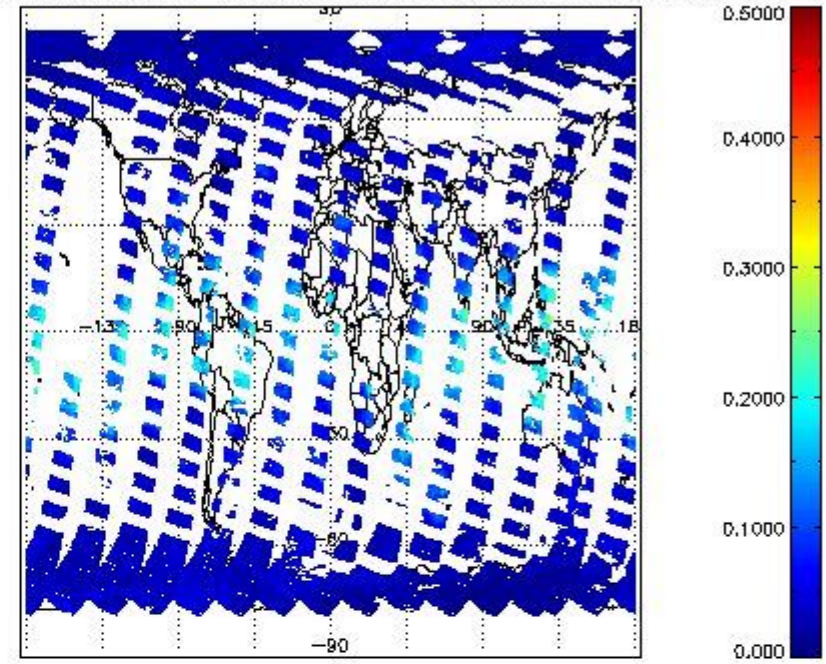
2.2.2.7 H2O (UV8)



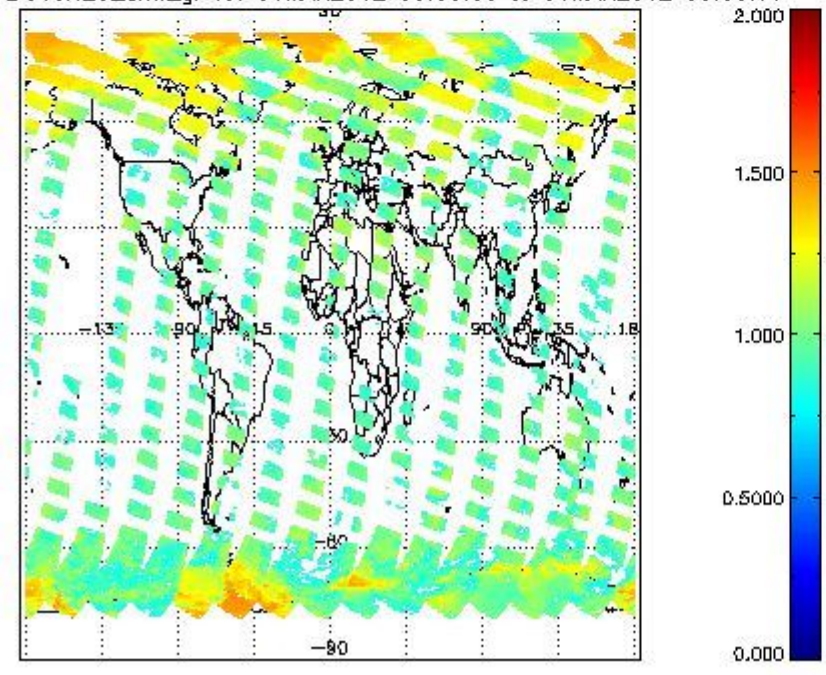
SCIOL2P_NADUV8H2O_vcd for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



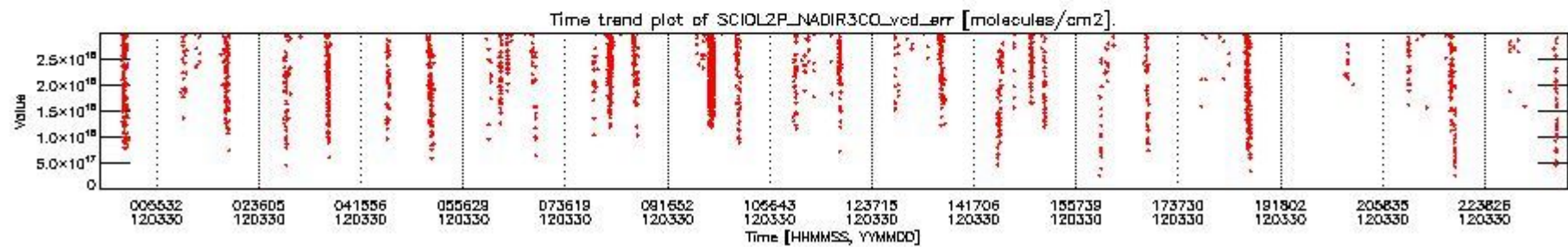
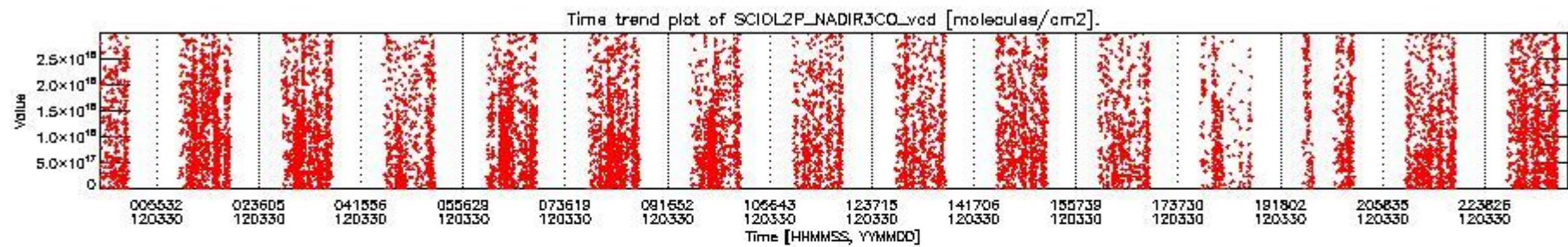
SCIOL2P_NADUV8H2O_vcd_err for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



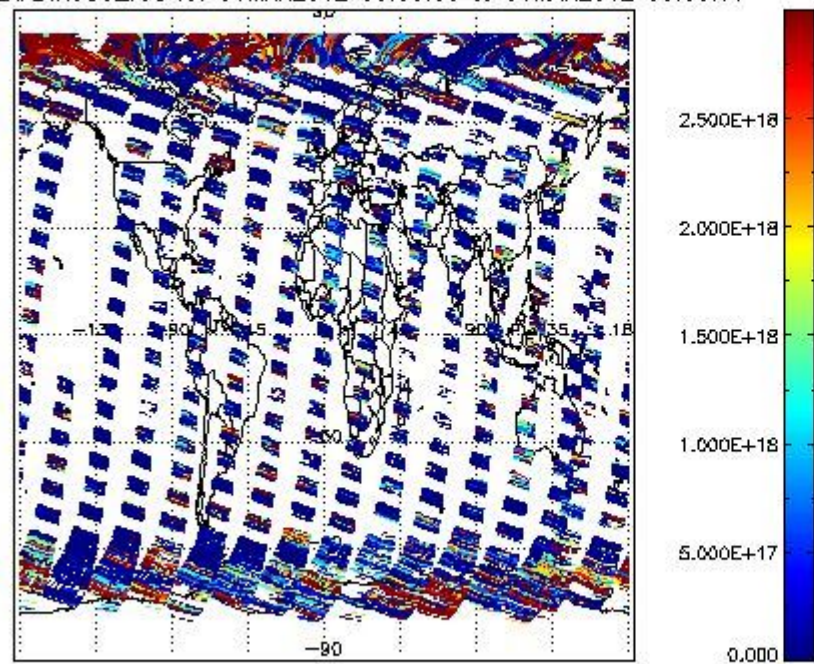
SCIOL2P_NADUV8H2O_arnf_gr for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



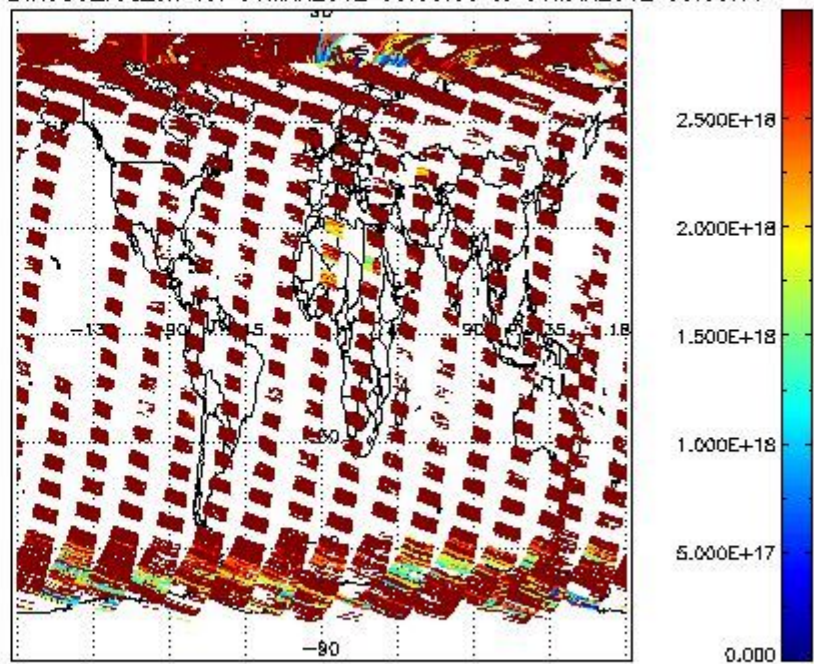
2.2.2.8 CO (IR3)



SCIDL2P_NADIR3CO_vcd for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



SCIDL2P_NADIR3CO_vcd_err for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



2.2.3 Limb

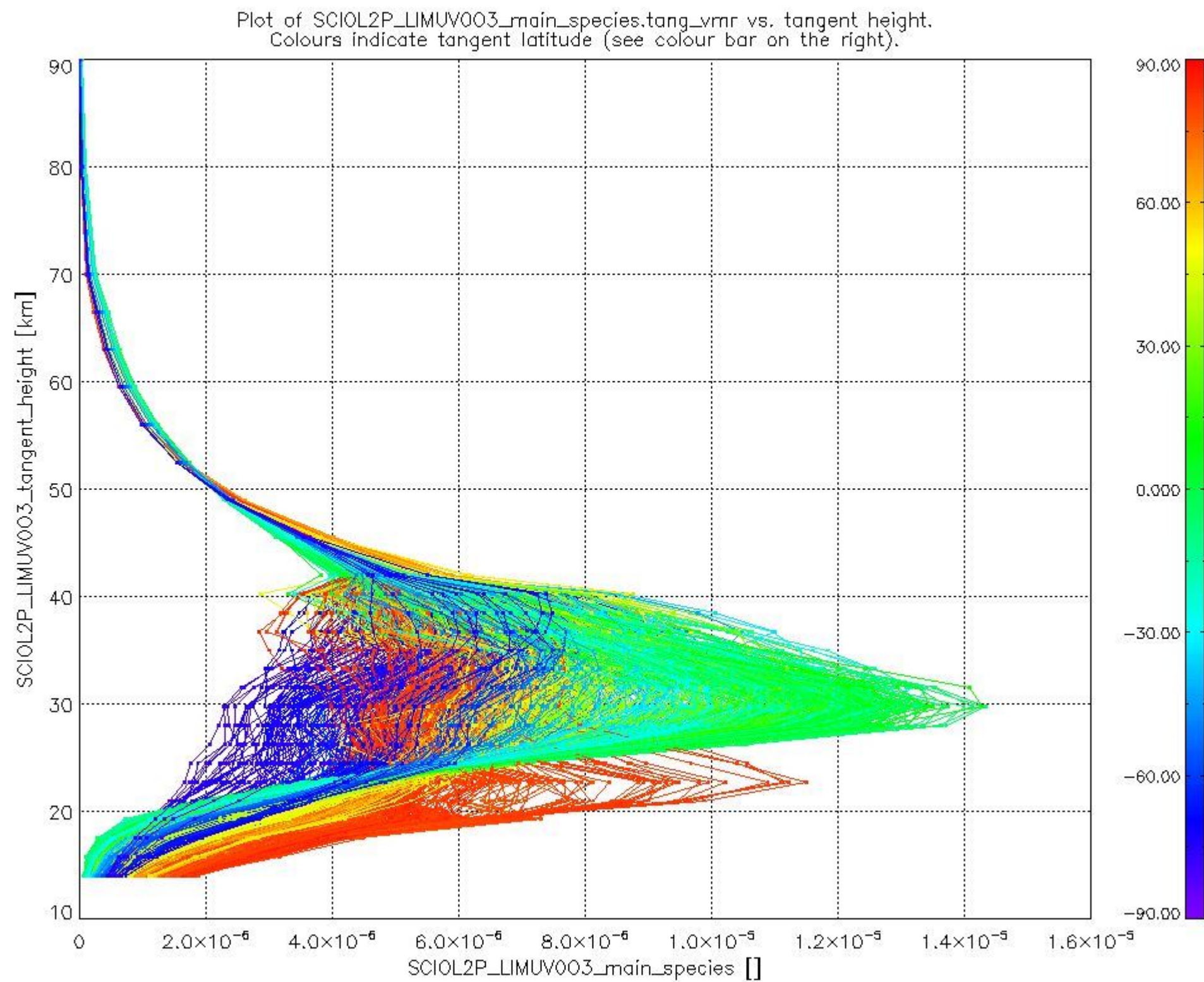
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

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

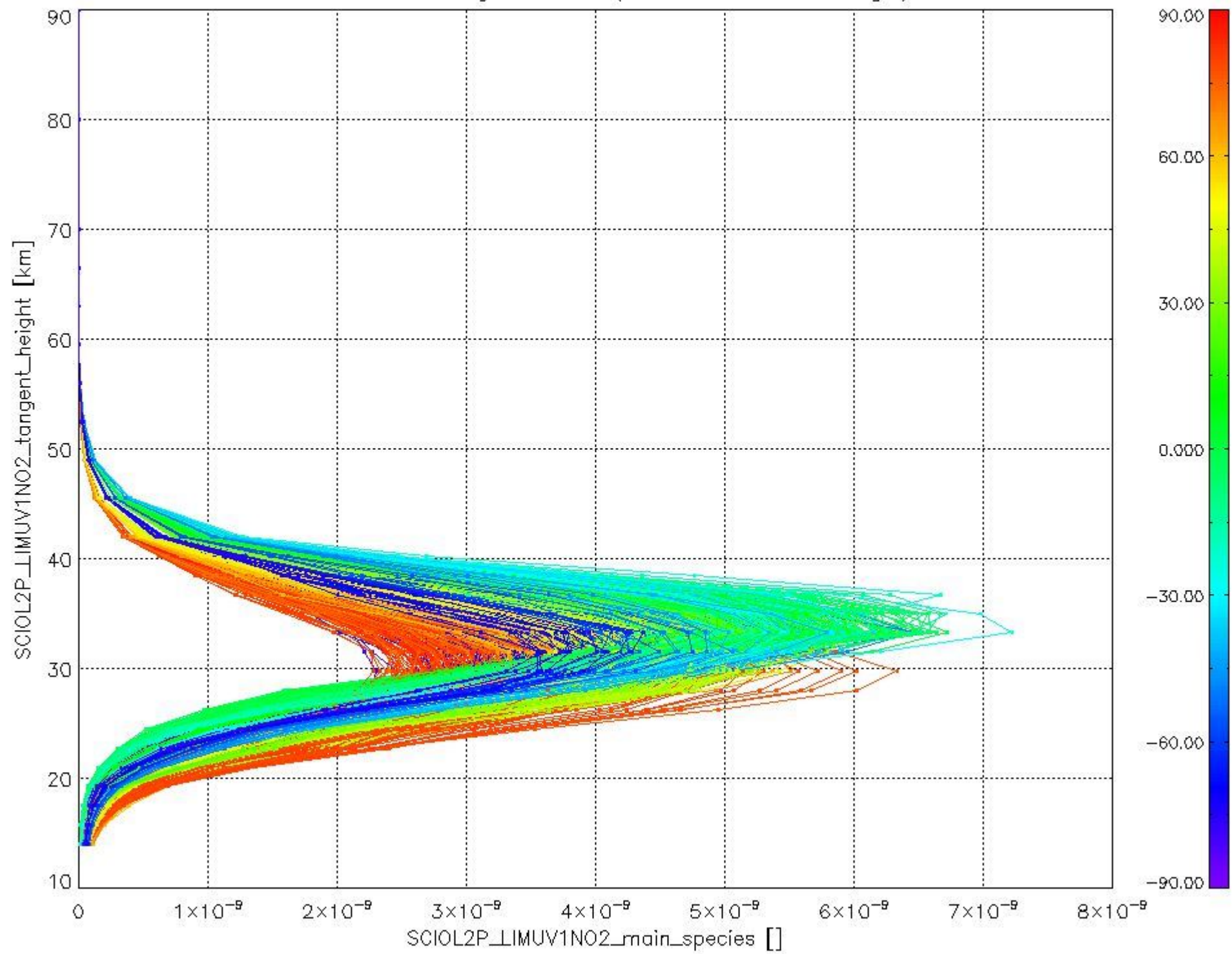
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



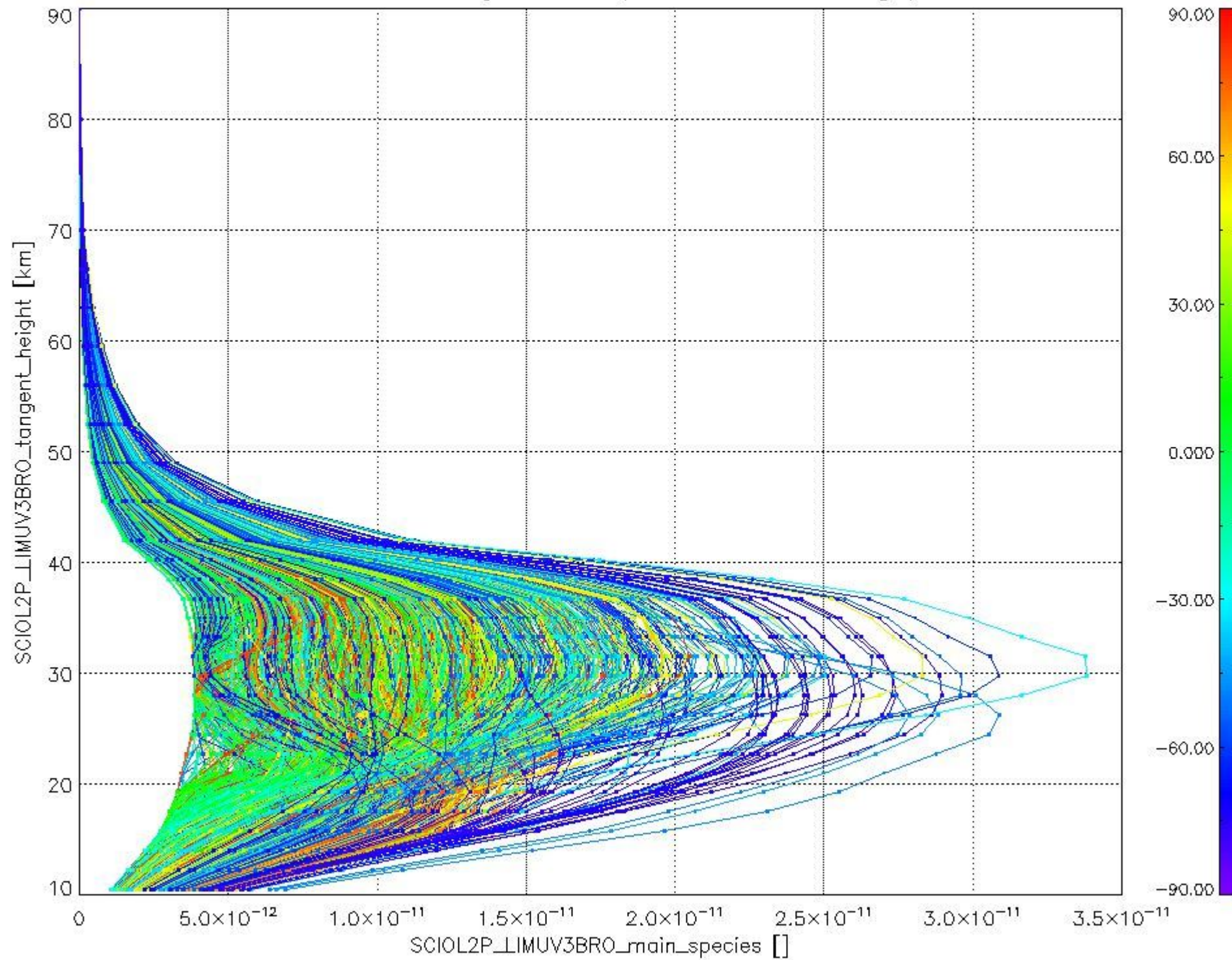
2.2.3.2 NO2 (UV1)

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)

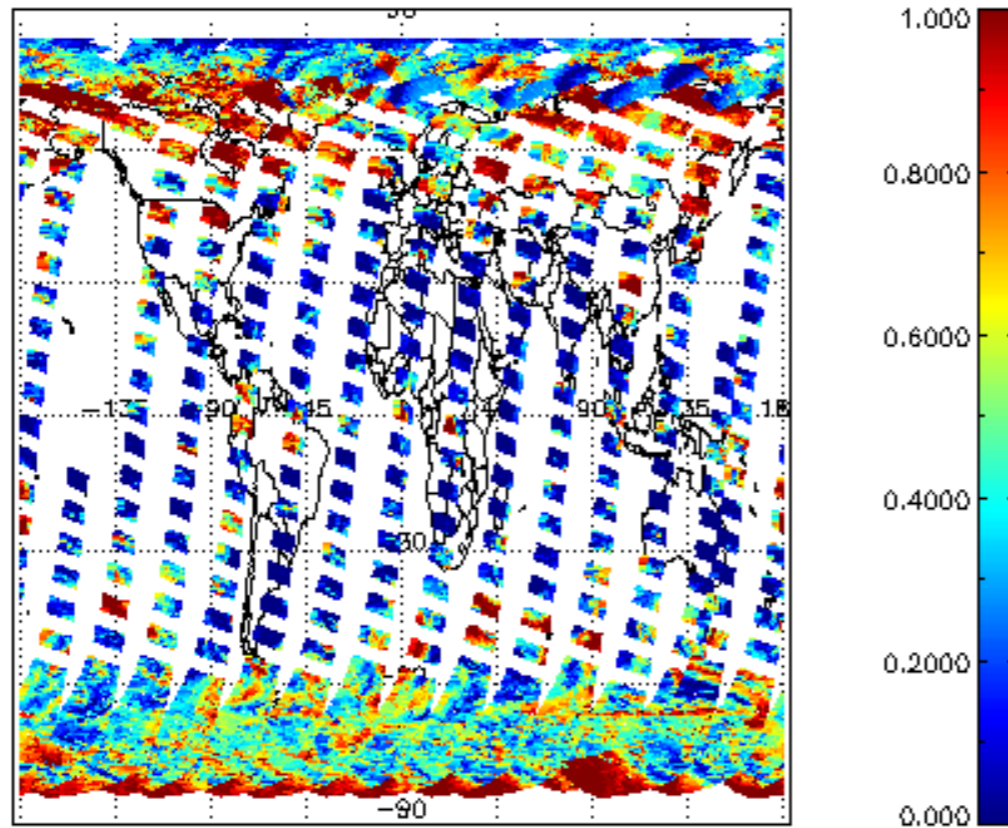
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



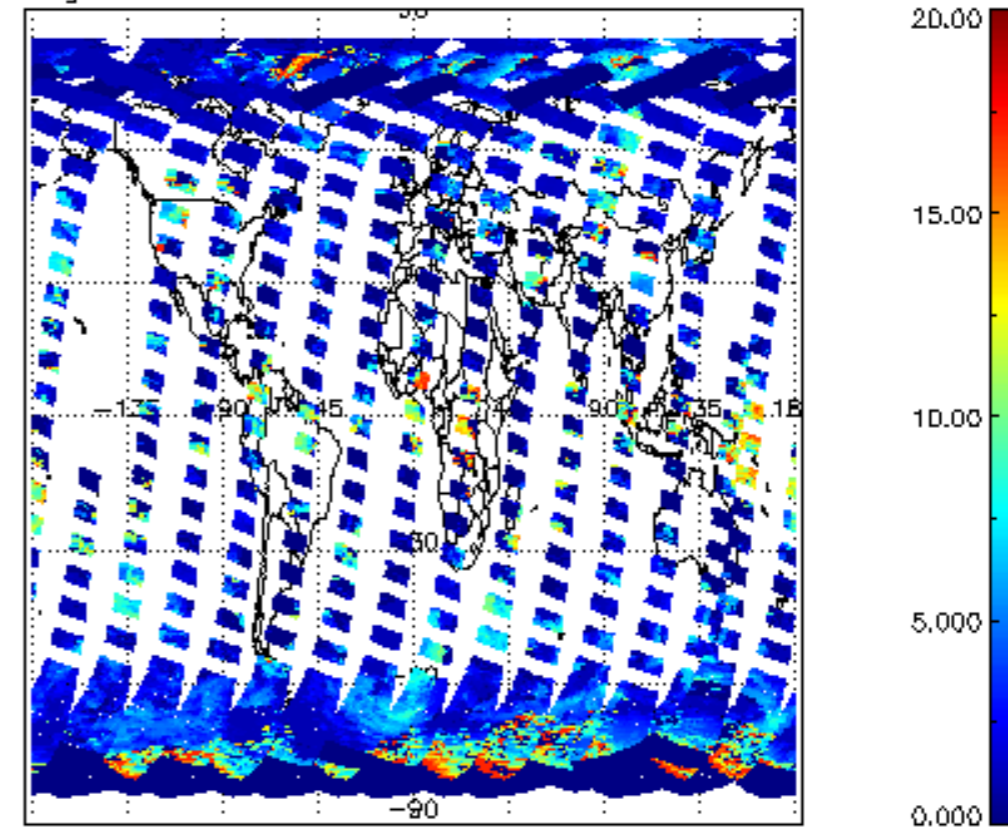
2.3 ADF monitoring

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_AXVIEC20120327_133111_20120329_193616_20120331_193616
3	SCI_MF1_AXVIEC20120327_133119_20120330_185931_20120401_185931

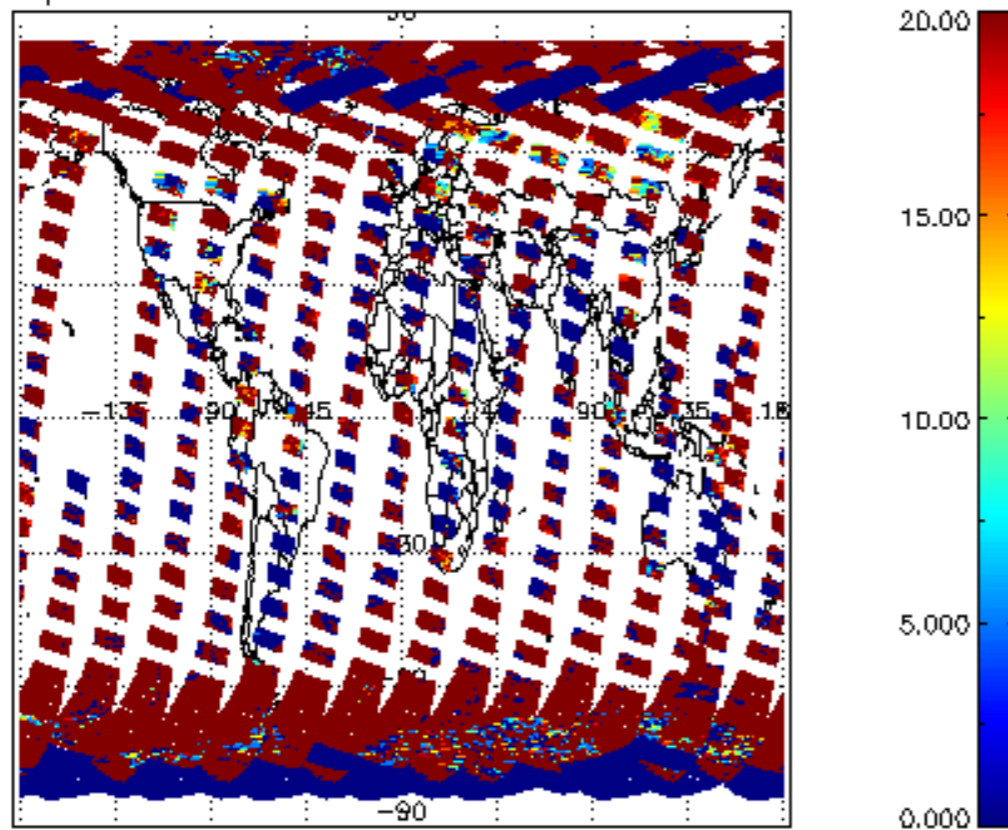
cL_frac for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



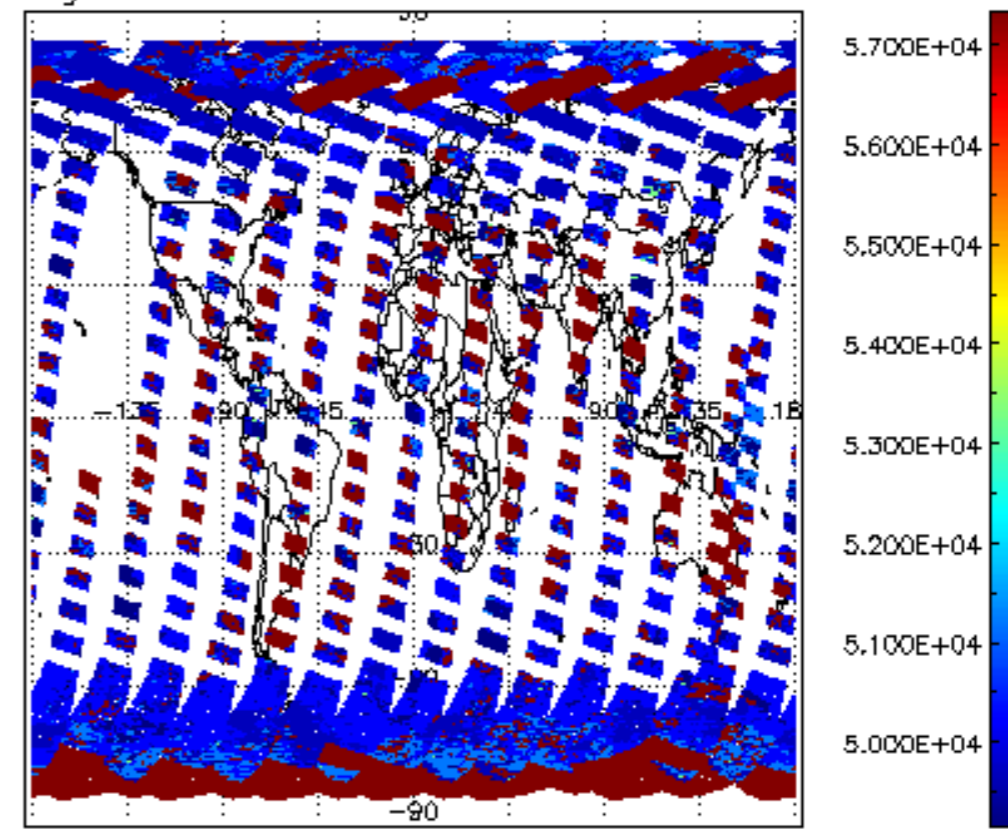
cL_top_height for 30MAR2012 00:00:00 to 31MAR2012 00:00:00

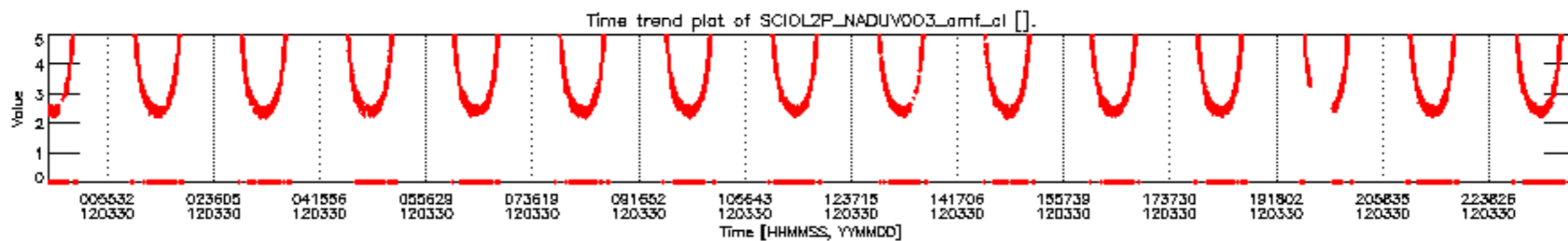
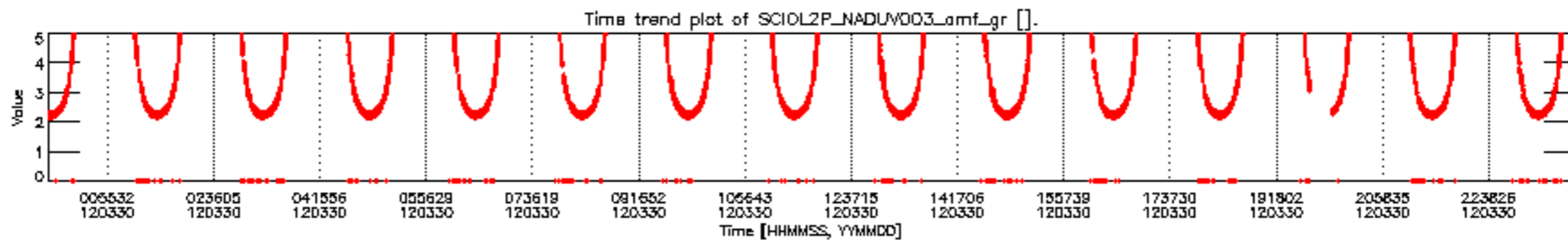
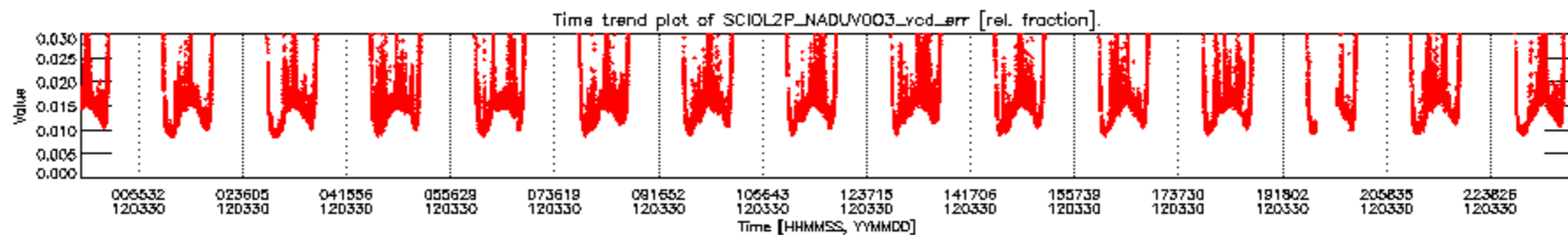
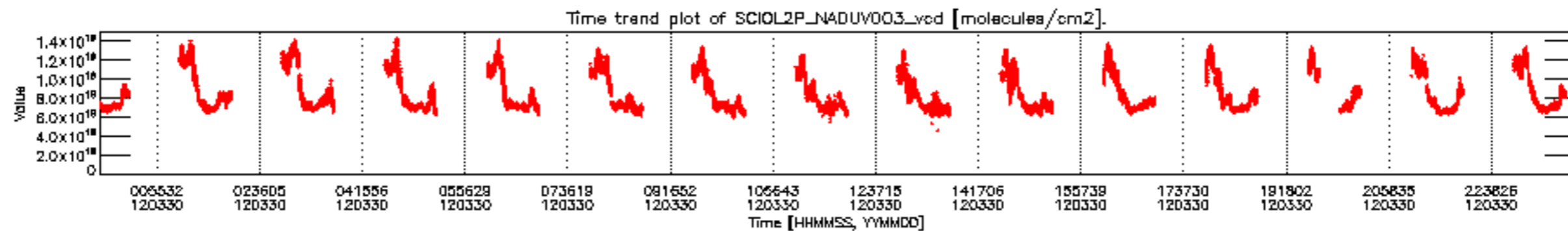


cL_opt_depth for 30MAR2012 00:00:00 to 31MAR2012 00:00:00

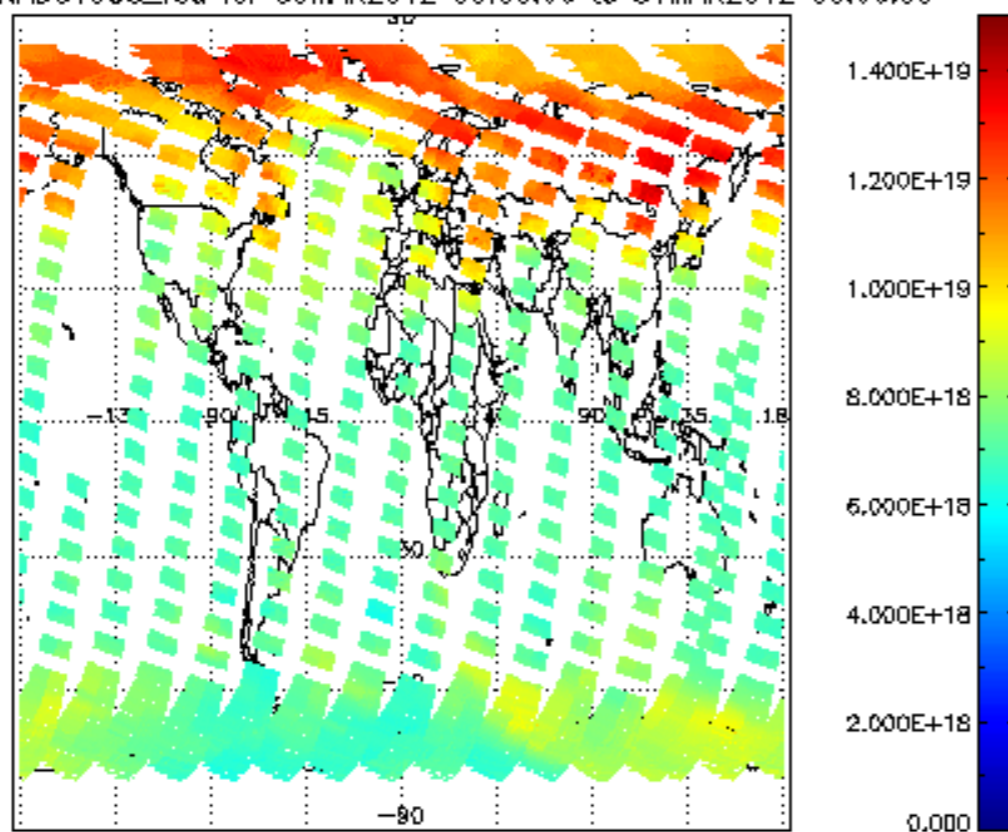


cloud_flags for 30MAR2012 00:00:00 to 31MAR2012 00:00:00

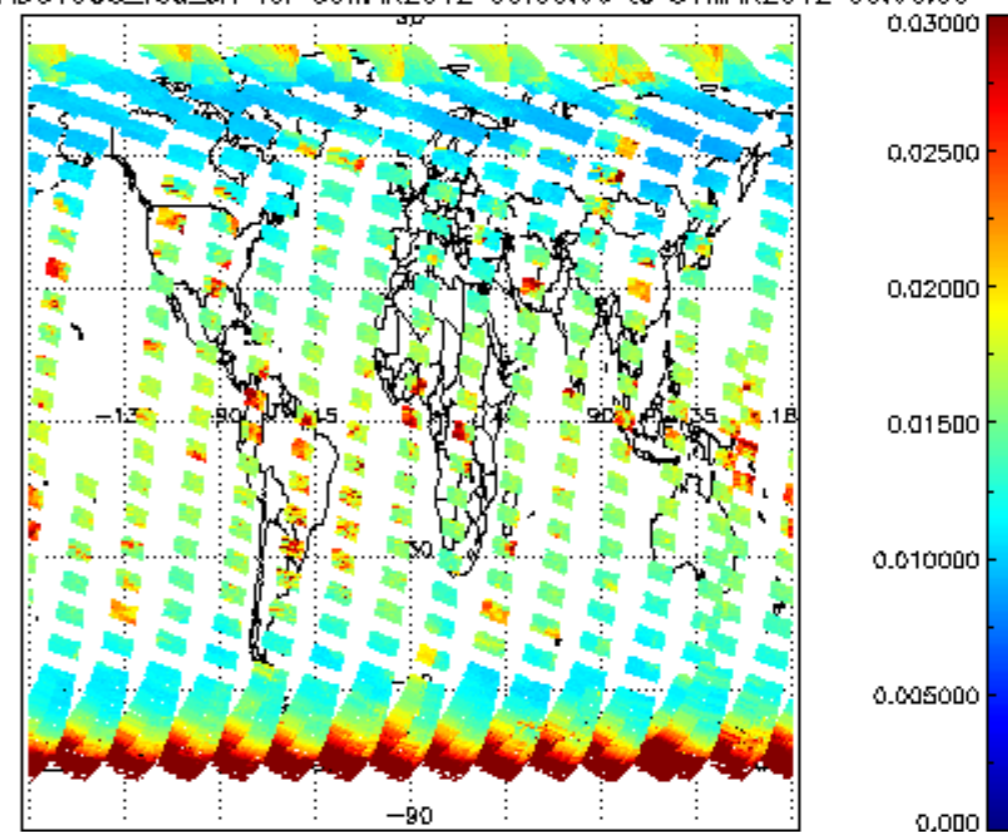




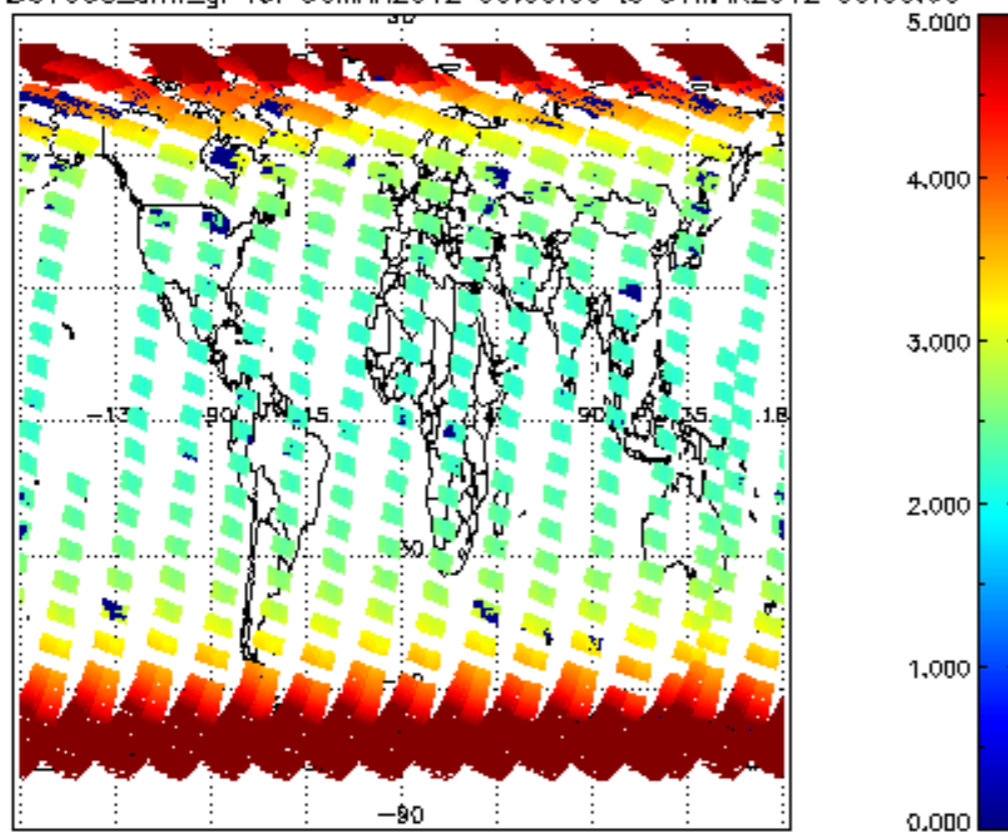
SCIOL2P_NADUV003_vcd for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



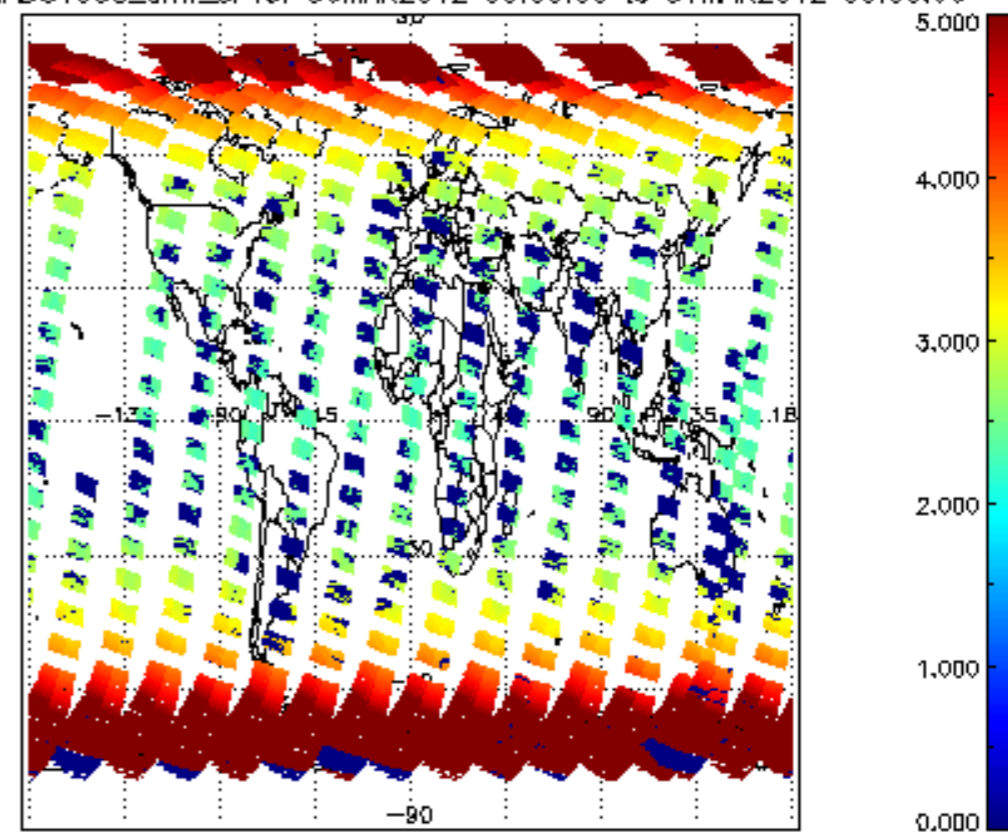
SCIOL2P_NADUV003_vcd_err for 30MAR2012 00:00:00 to 31MAR2012 00:00:00

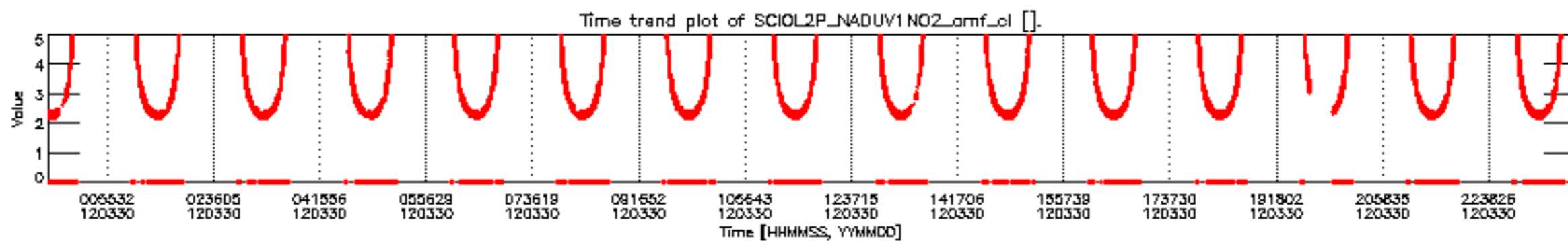
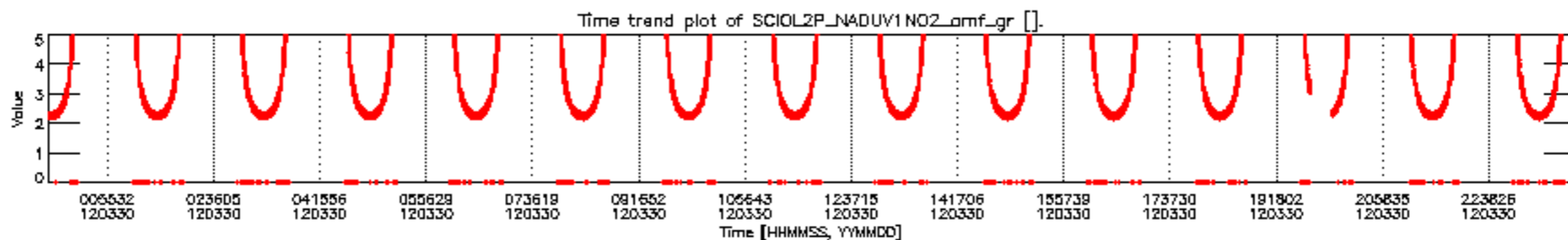
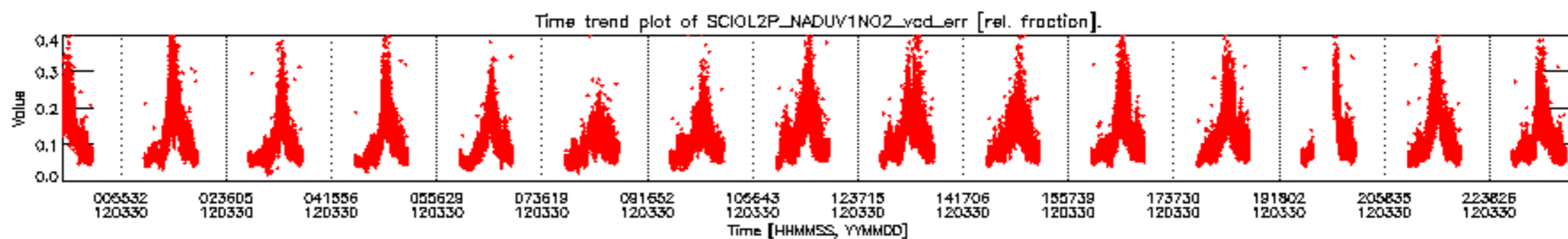
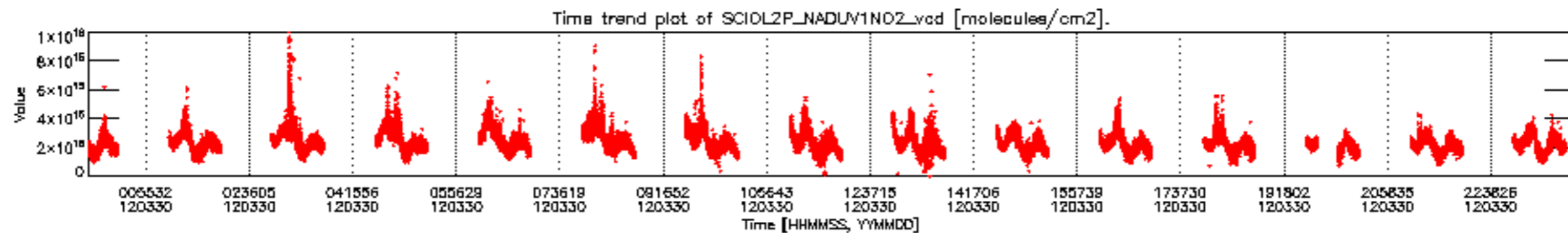


SCIOL2P_NADUV003_amf_gr for 30MAR2012 00:00:00 to 31MAR2012 00:00:00

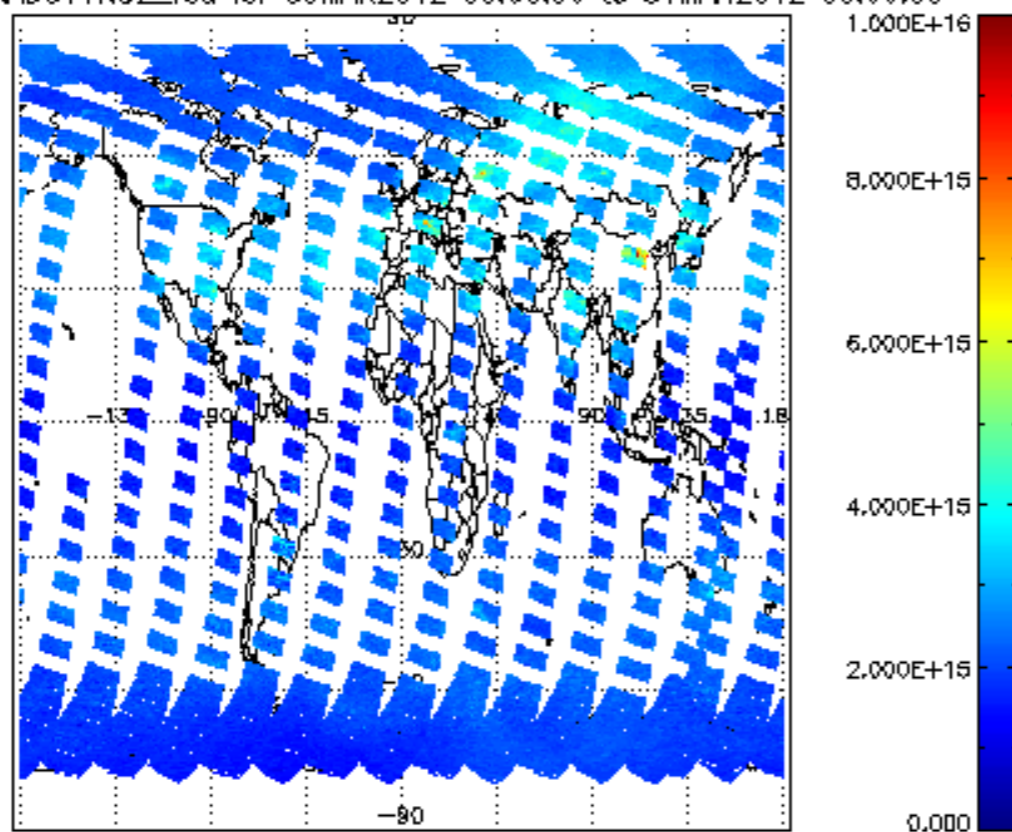


SCIOL2P_NADUV003_amf_cl for 30MAR2012 00:00:00 to 31MAR2012 00:00:00

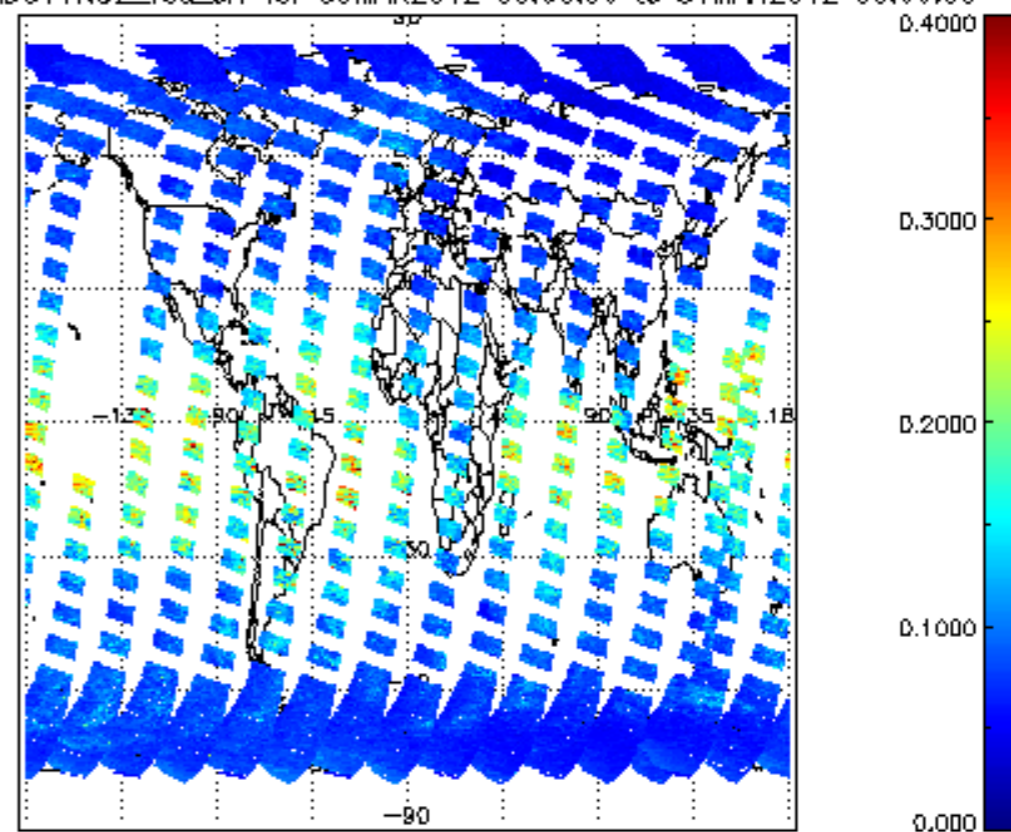




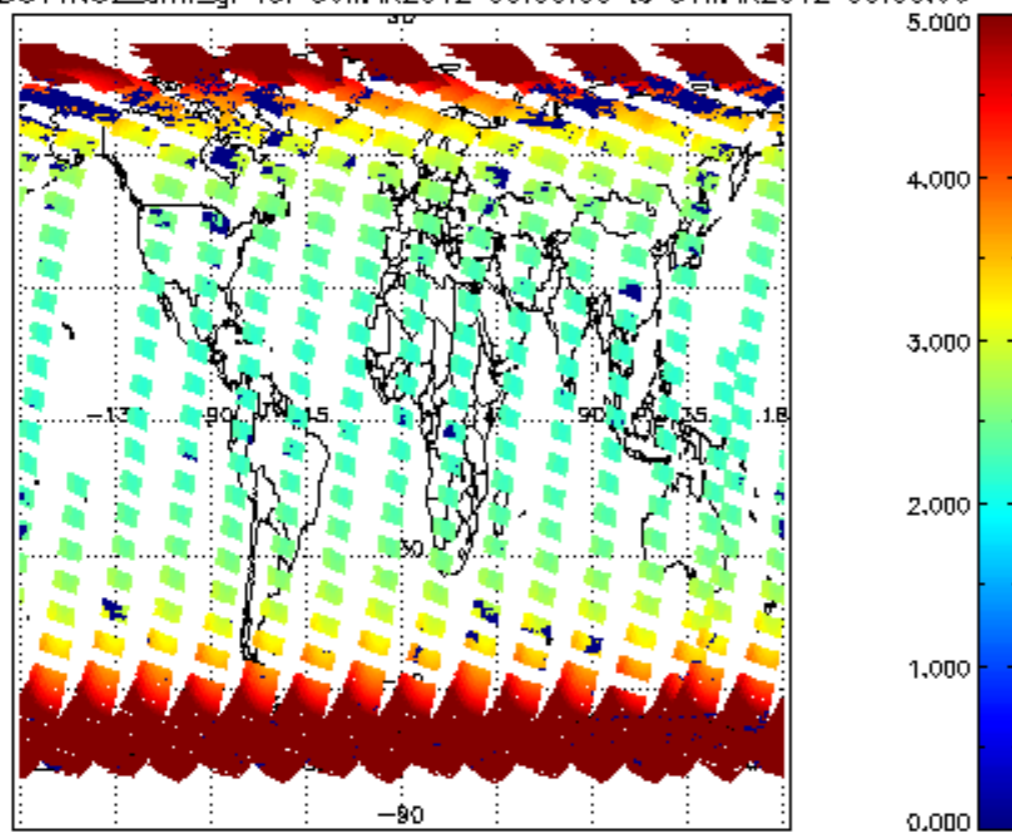
SCIOL2P_NADUV1NO2_vcd for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



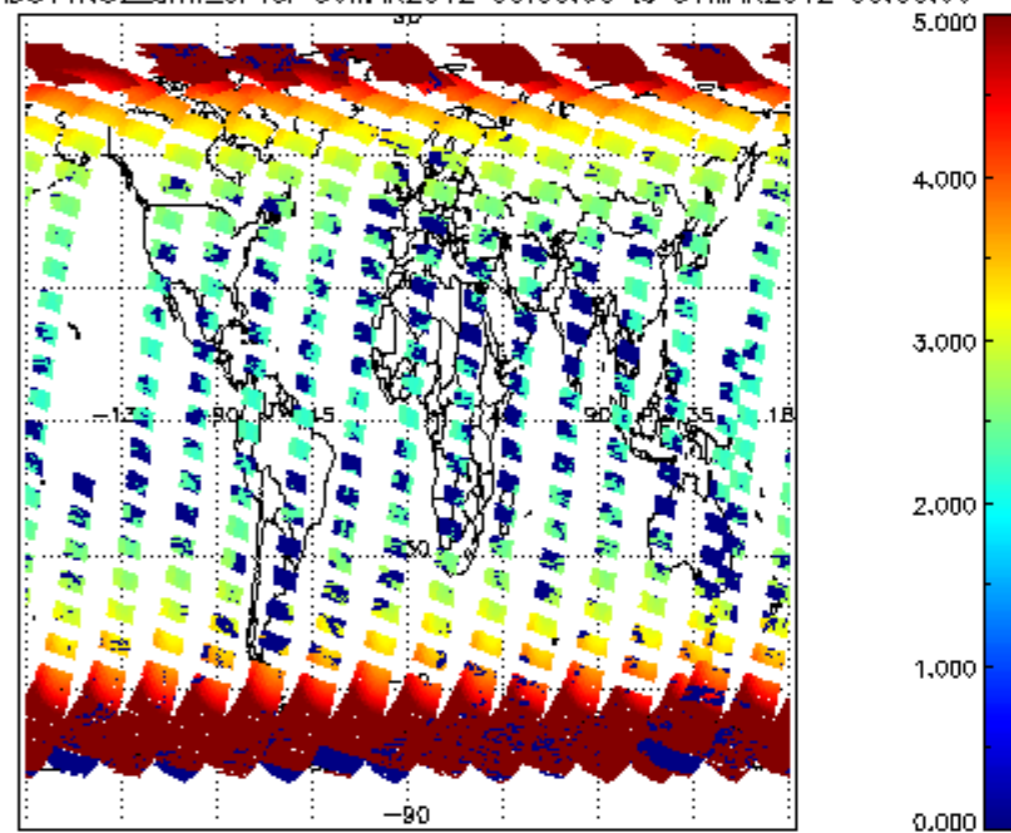
SCIOL2P_NADUV1NO2_vcd_err for 30MAR2012 00:00:00 to 31MAR2012 00:00:00

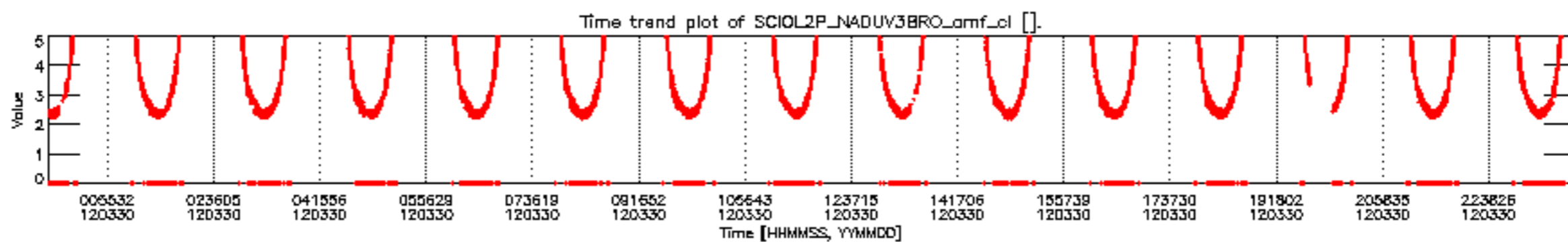
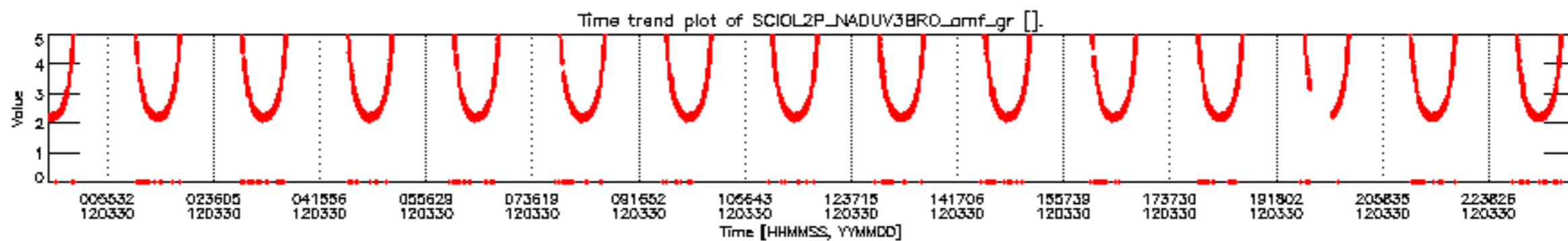
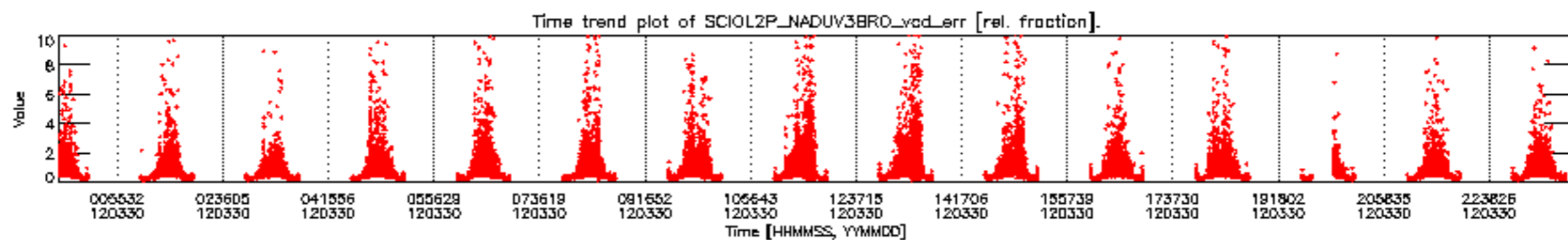
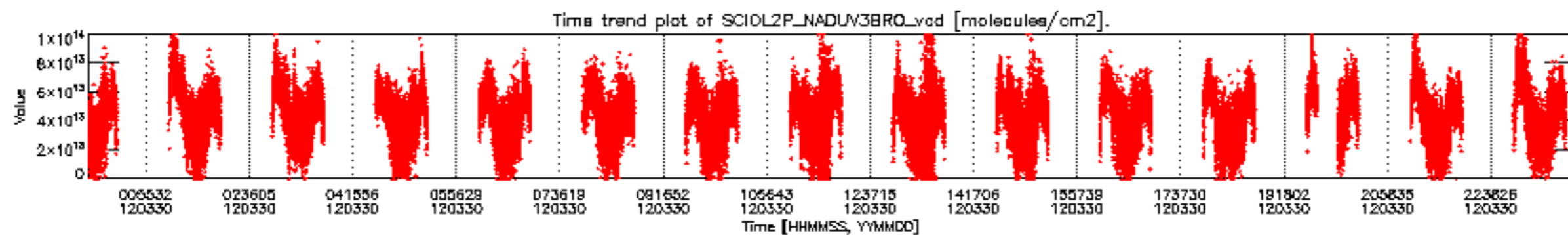


SCIOL2P_NADUV1NO2_amf_gr for 30MAR2012 00:00:00 to 31MAR2012 00:00:00

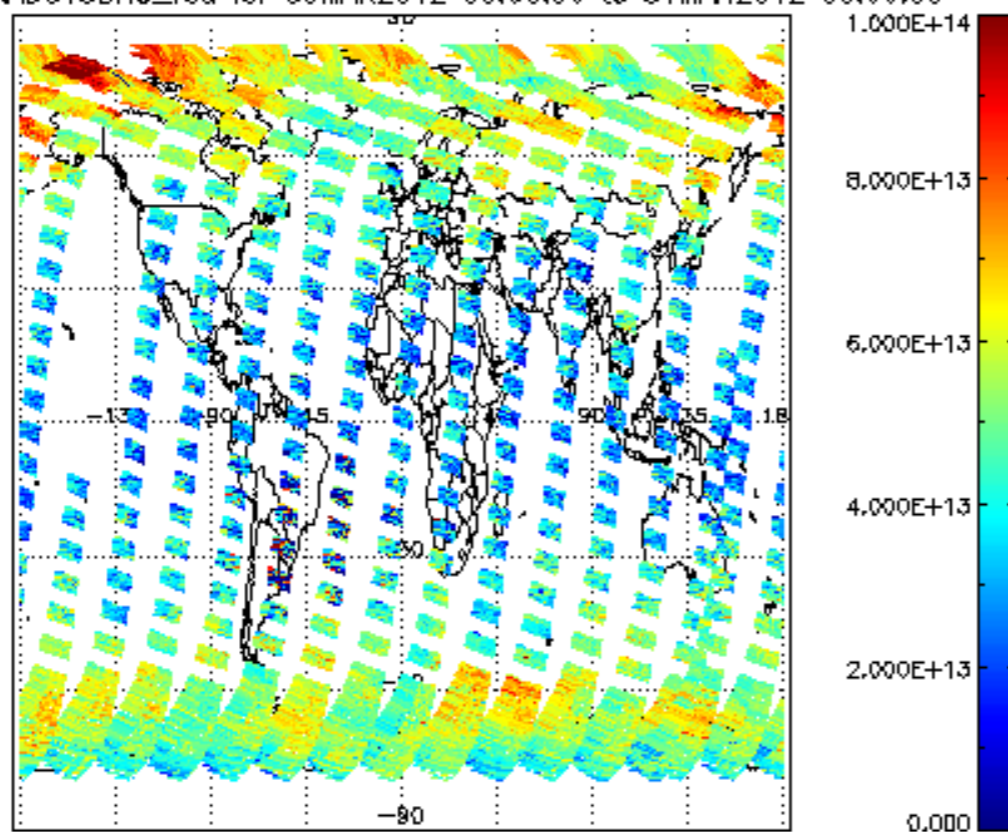


SCIOL2P_NADUV1NO2_amf_cl for 30MAR2012 00:00:00 to 31MAR2012 00:00:00

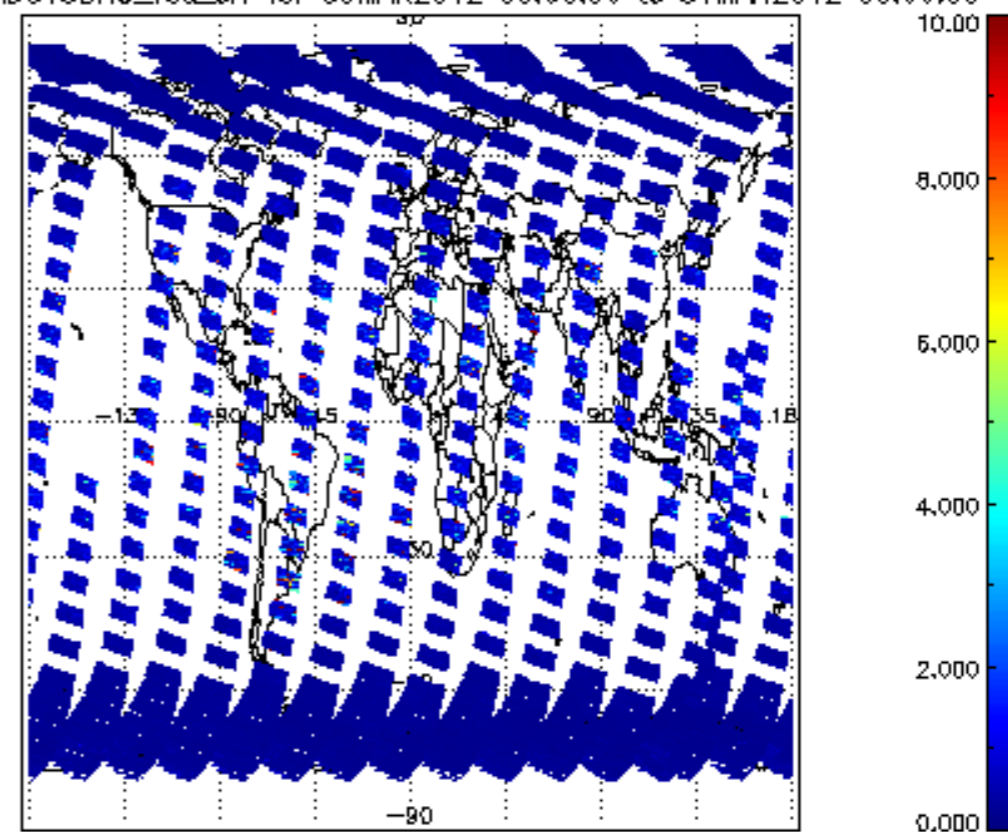




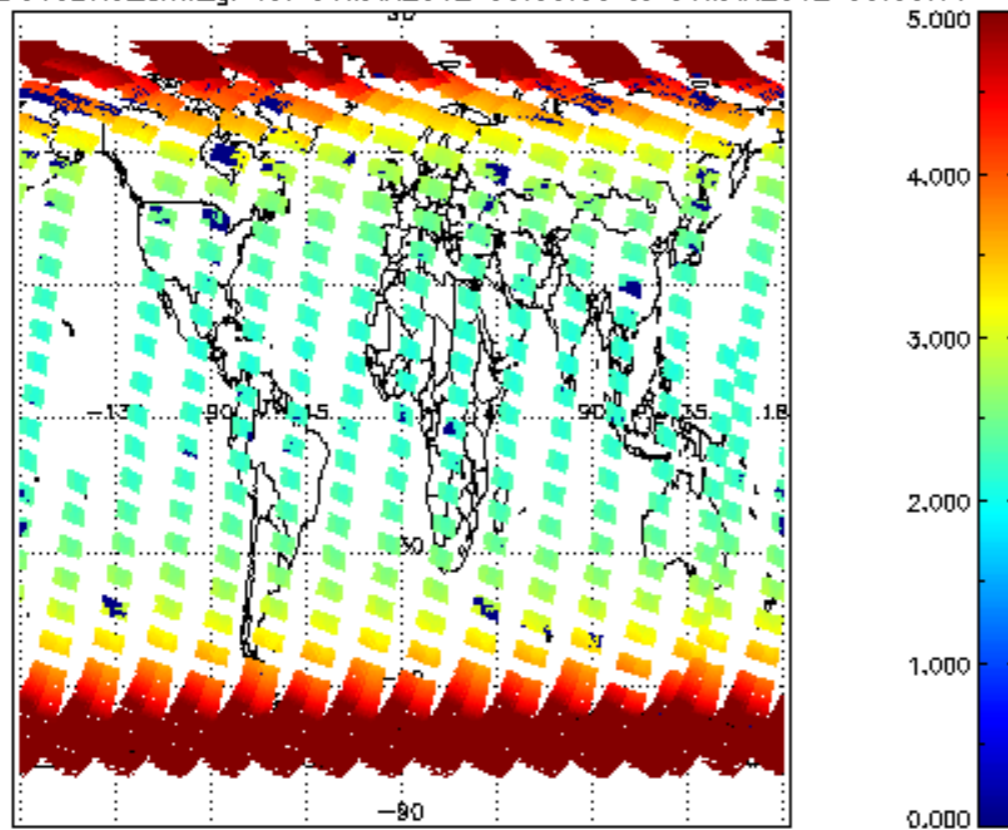
SCIOL2P_NADUV3BRO_vcd for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



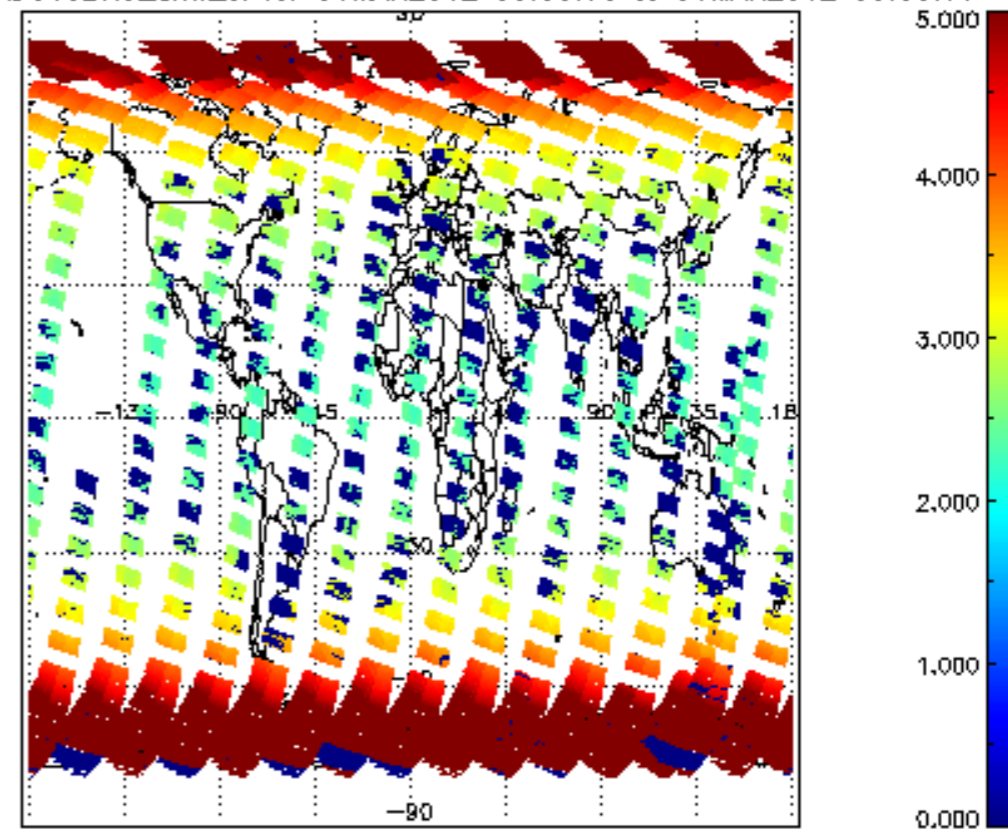
SCIOL2P_NADUV3BRO_vcd_err for 30MAR2012 00:00:00 to 31MAR2012 00:00:00

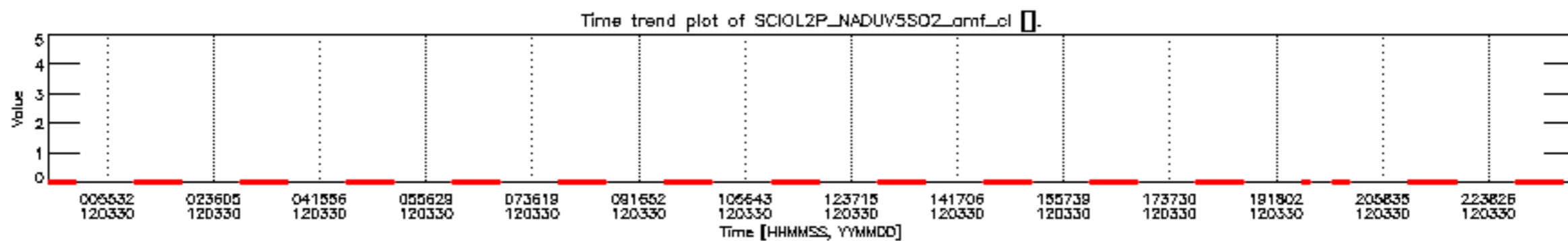
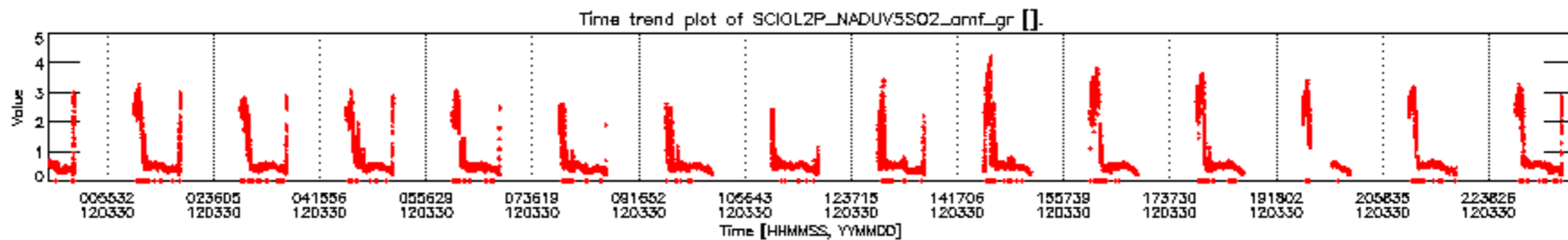
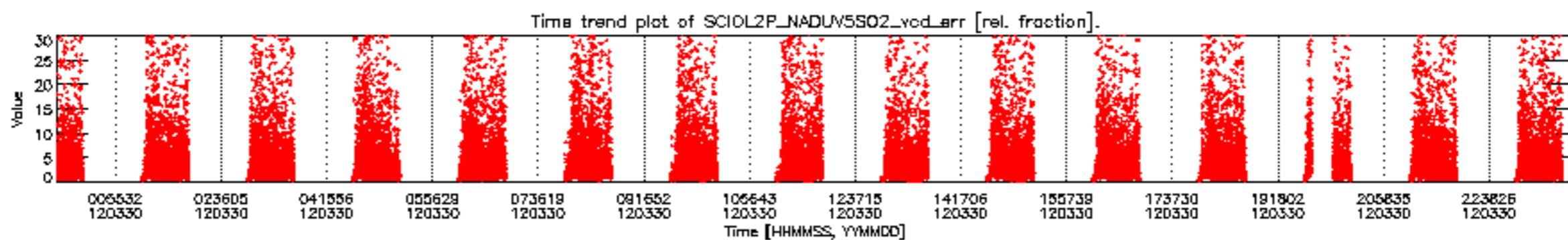
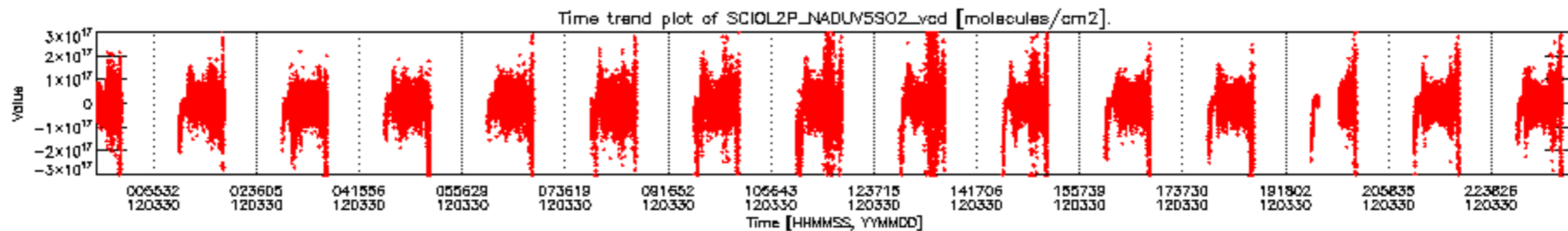


SCIOL2P_NADUV3BRO_amf_gr for 30MAR2012 00:00:00 to 31MAR2012 00:00:00

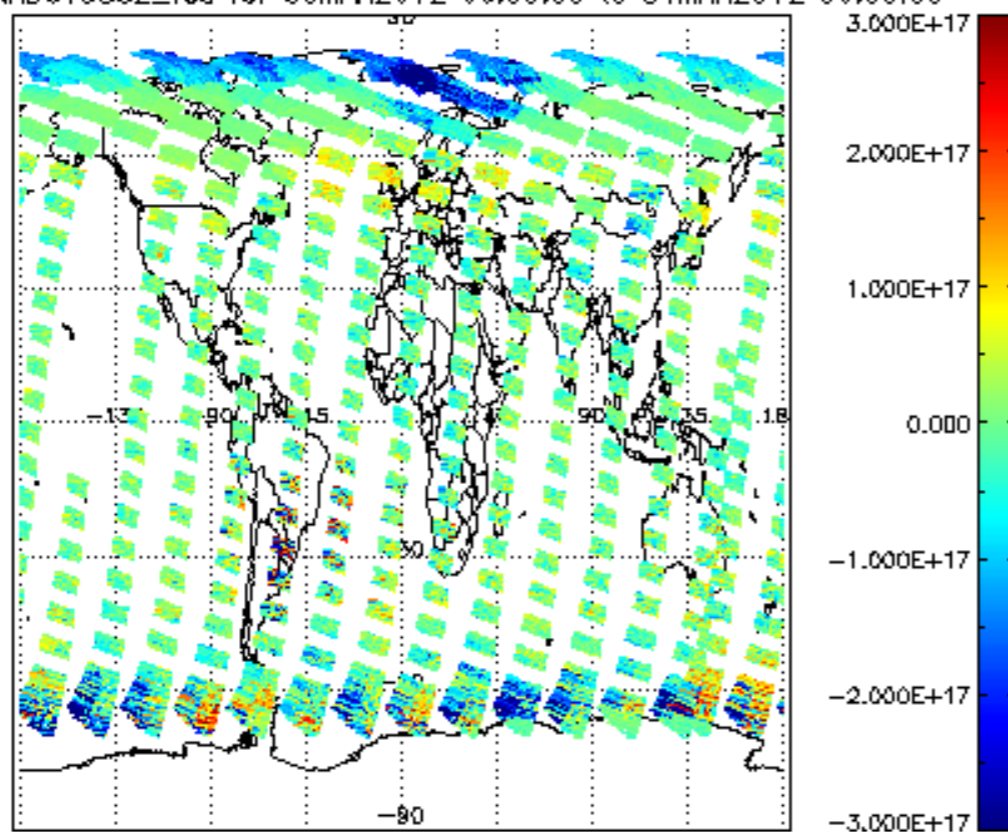


SCIOL2P_NADUV3BRO_amf_cl for 30MAR2012 00:00:00 to 31MAR2012 00:00:00

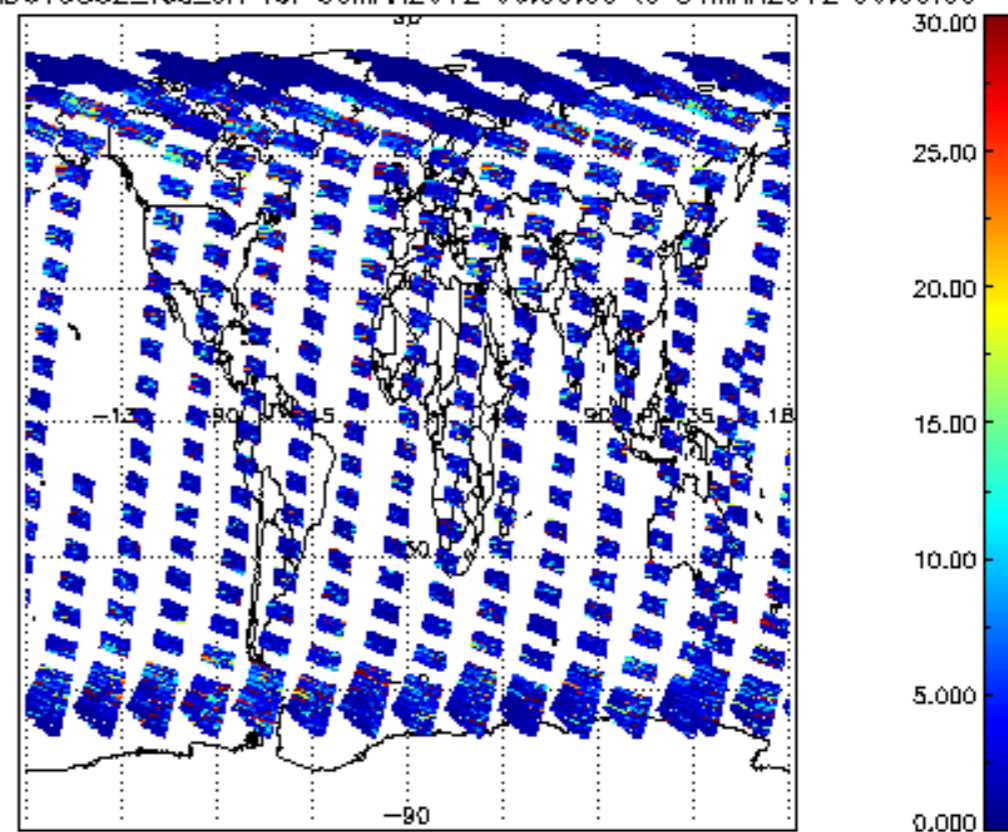




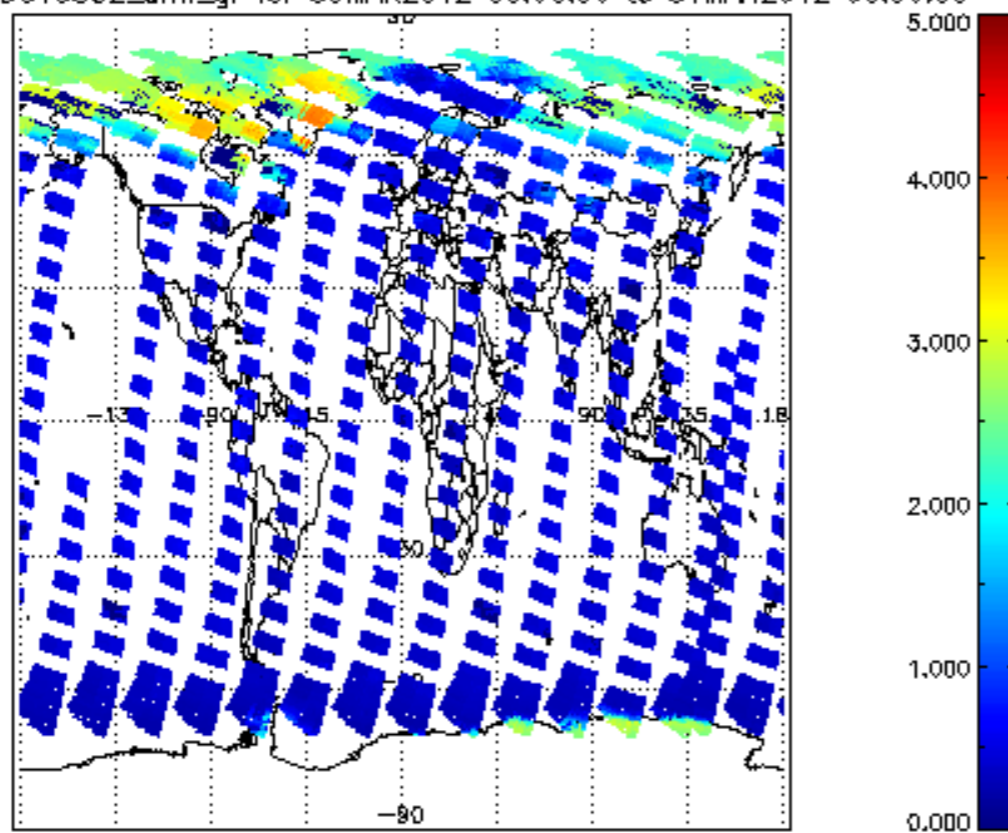
SCIOL2P_NADUV5S02_vcd for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



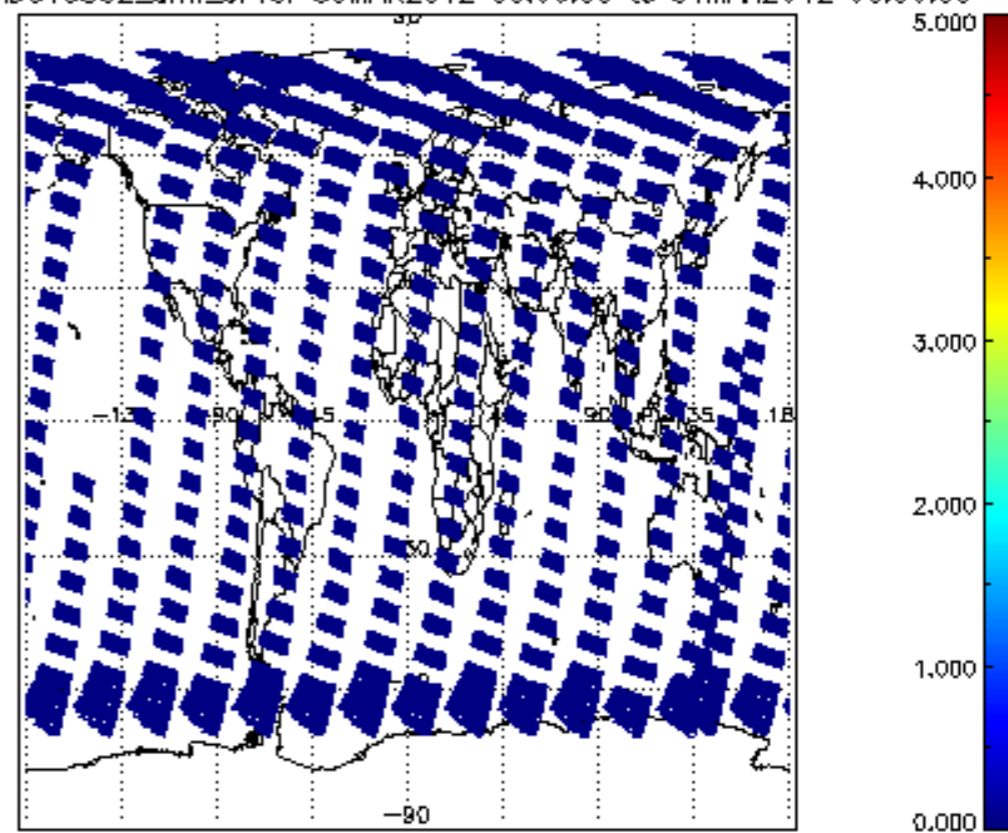
SCIOL2P_NADUV5S02_vcd_err for 30MAR2012 00:00:00 to 31MAR2012 00:00:00

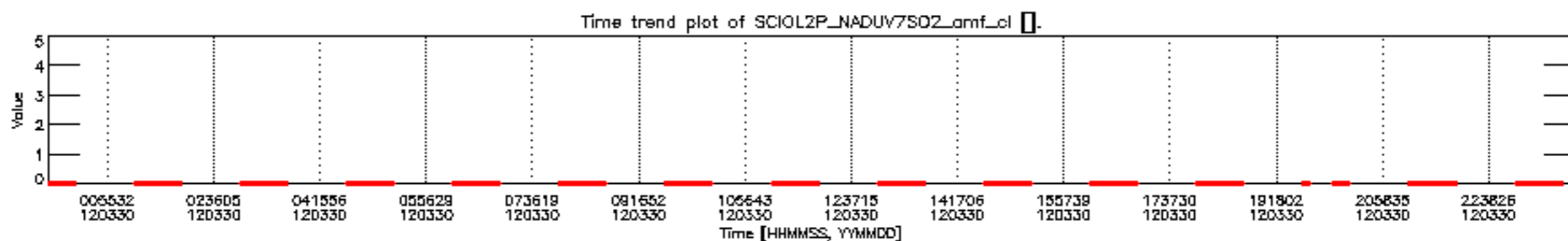
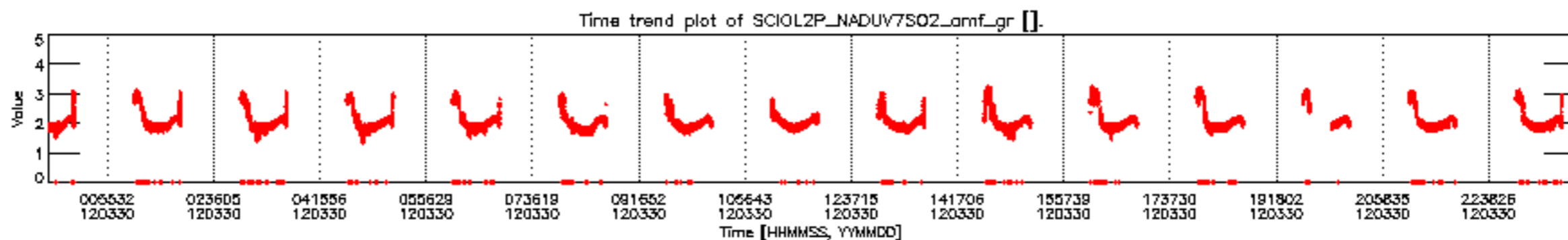
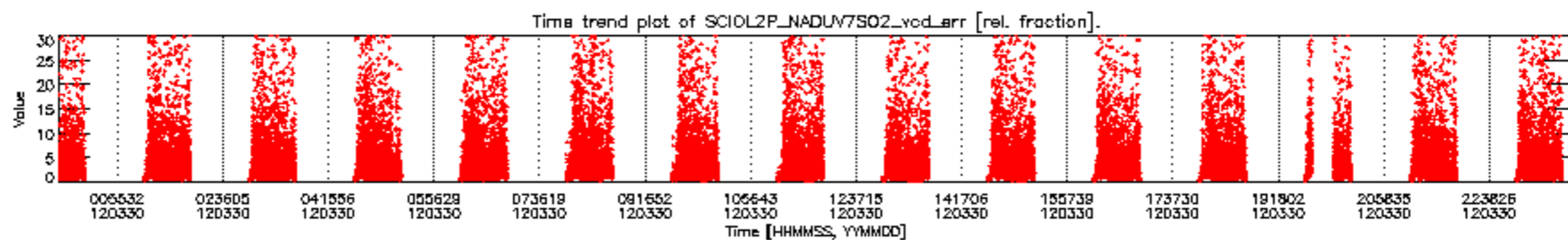
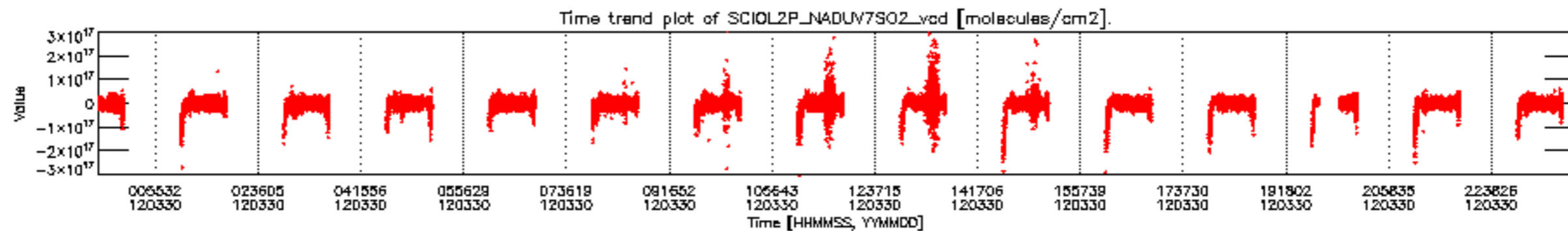


SCIOL2P_NADUV5S02_amf_gr for 30MAR2012 00:00:00 to 31MAR2012 00:00:00

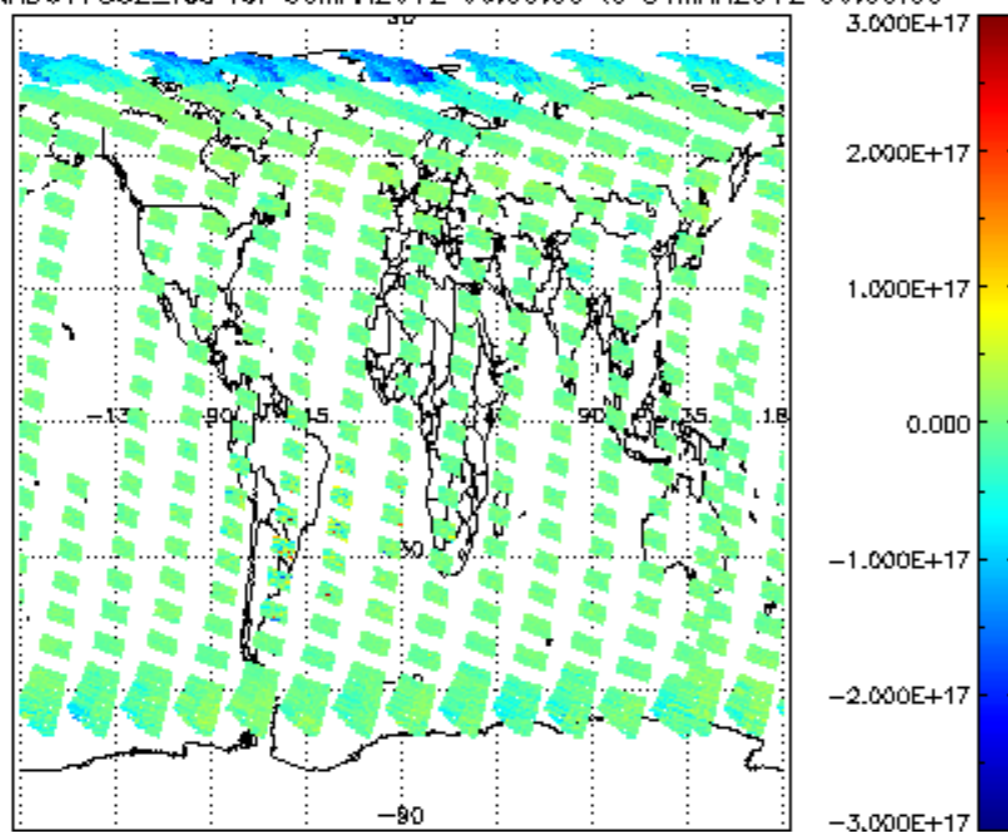


SCIOL2P_NADUV5S02_amf_cl for 30MAR2012 00:00:00 to 31MAR2012 00:00:00

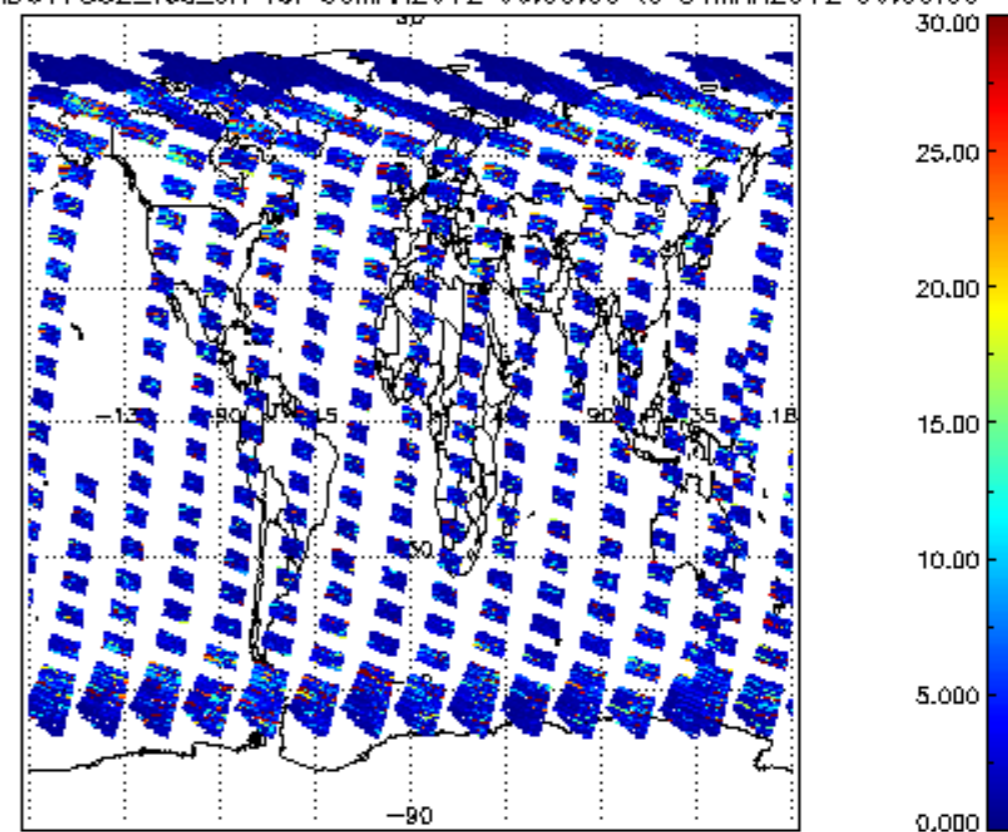




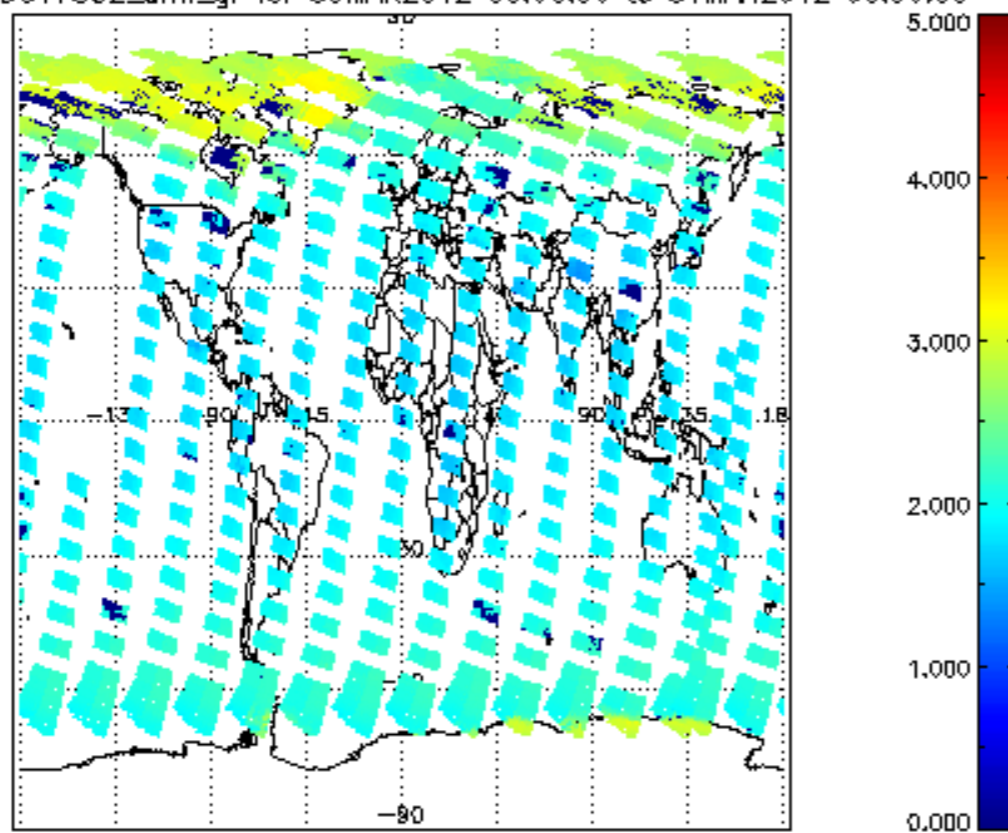
SCIOL2P_NADUV7S02_vcd for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



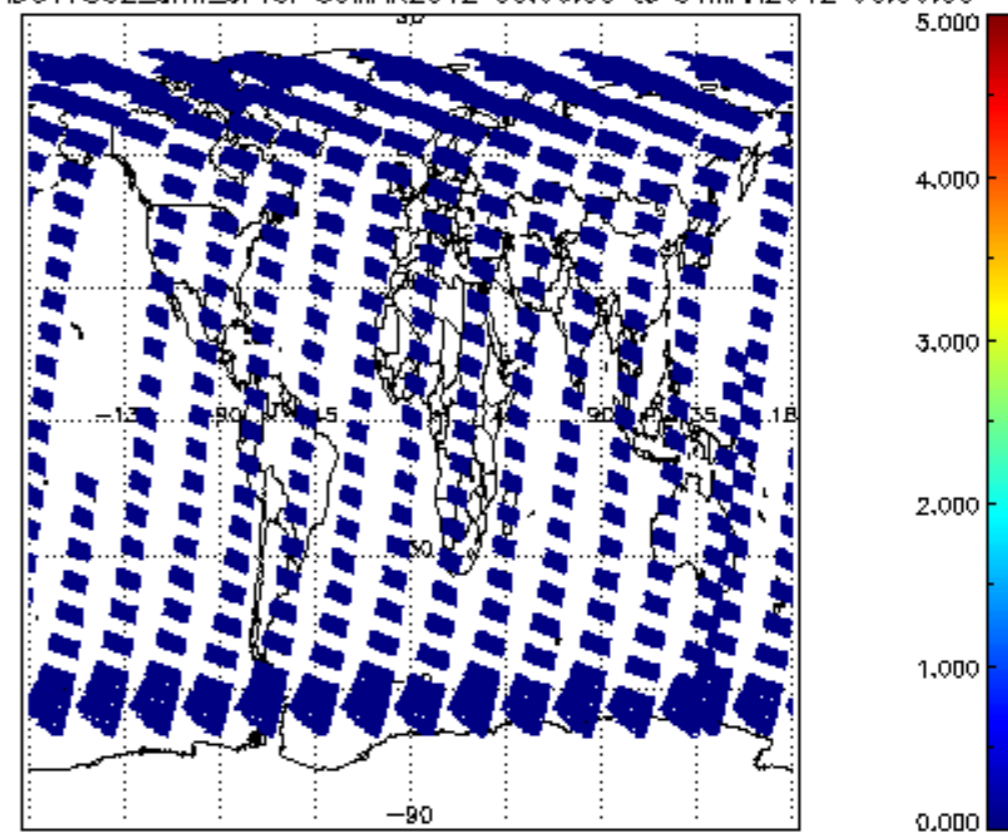
SCIOL2P_NADUV7S02_vcd_err for 30MAR2012 00:00:00 to 31MAR2012 00:00:00

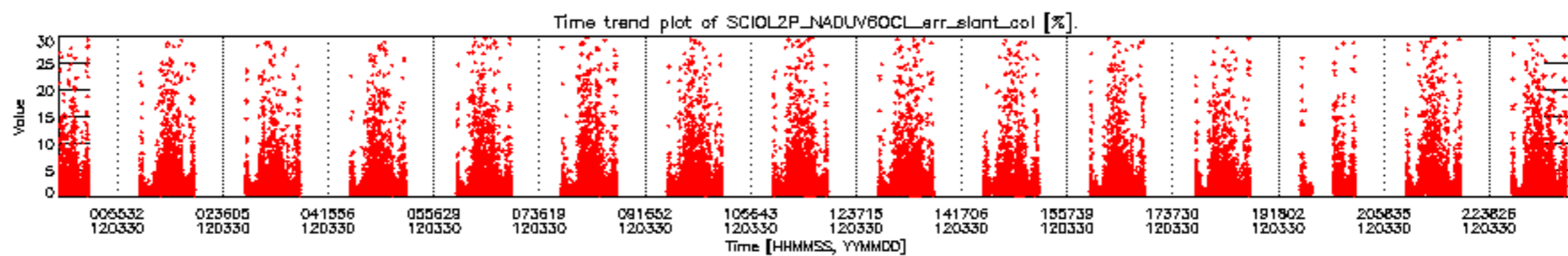
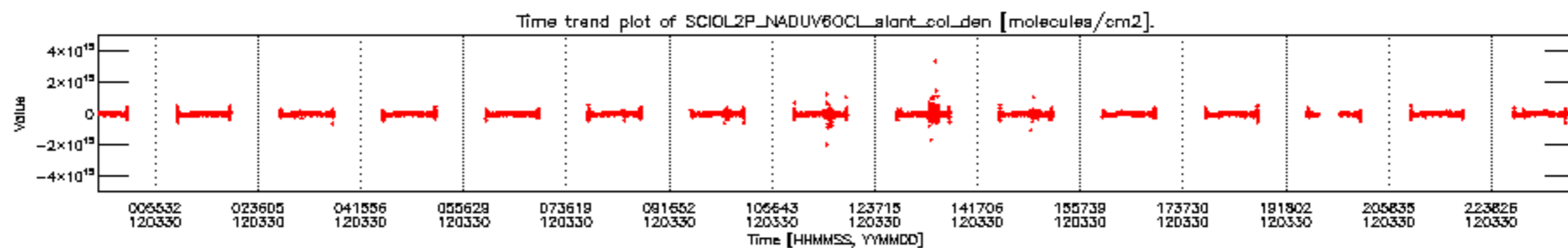


SCIOL2P_NADUV7S02_amf_gr for 30MAR2012 00:00:00 to 31MAR2012 00:00:00

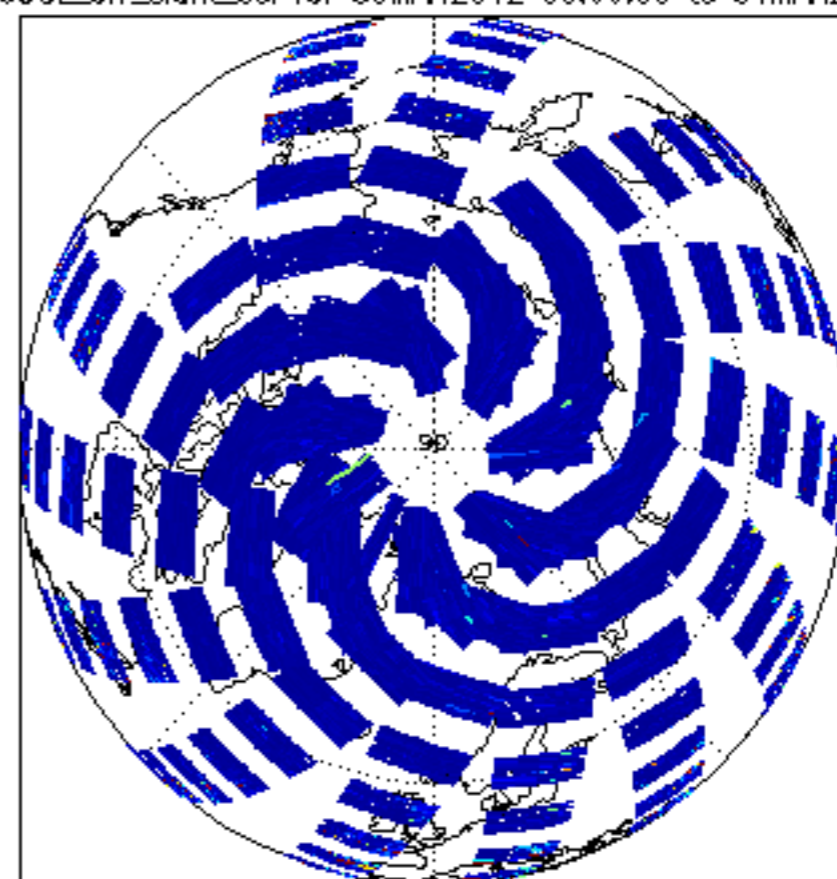
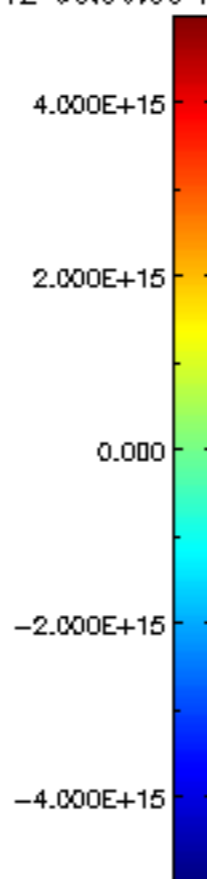
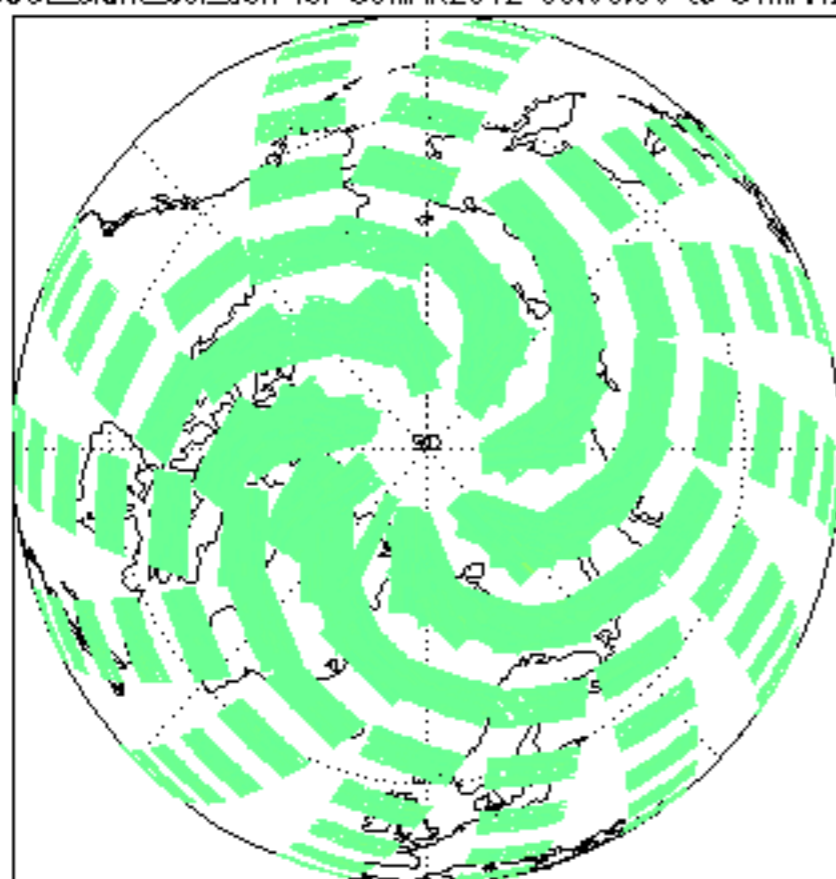


SCIOL2P_NADUV7S02_amf_cl for 30MAR2012 00:00:00 to 31MAR2012 00:00:00

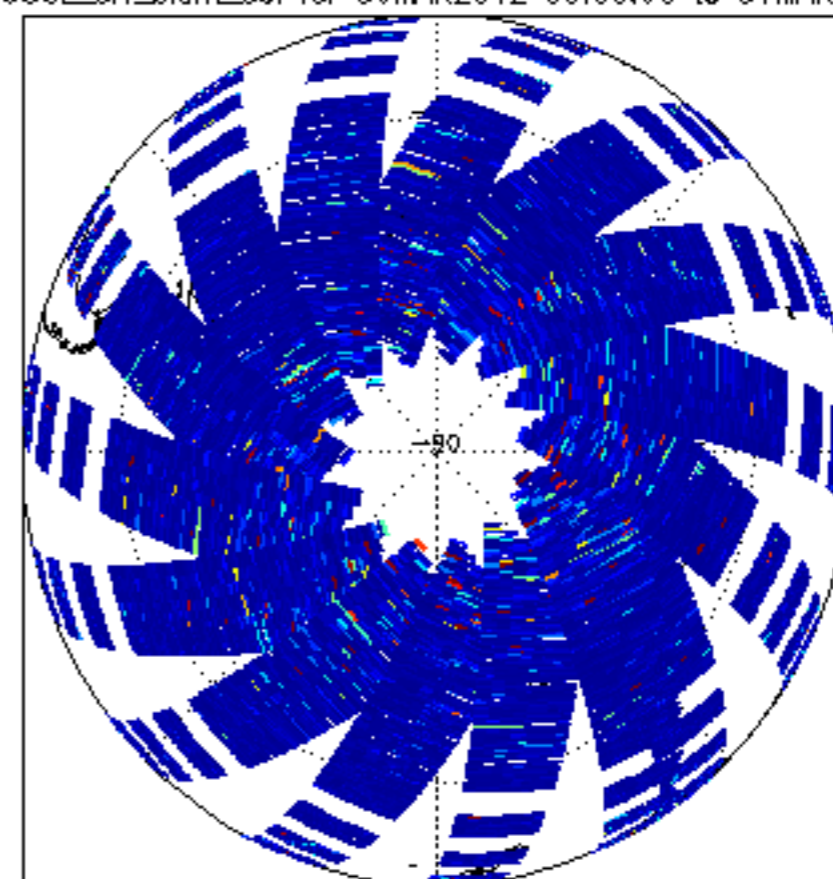
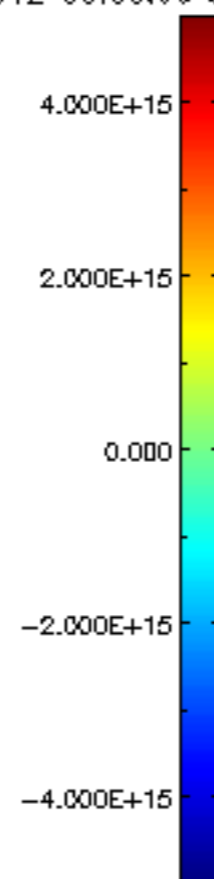
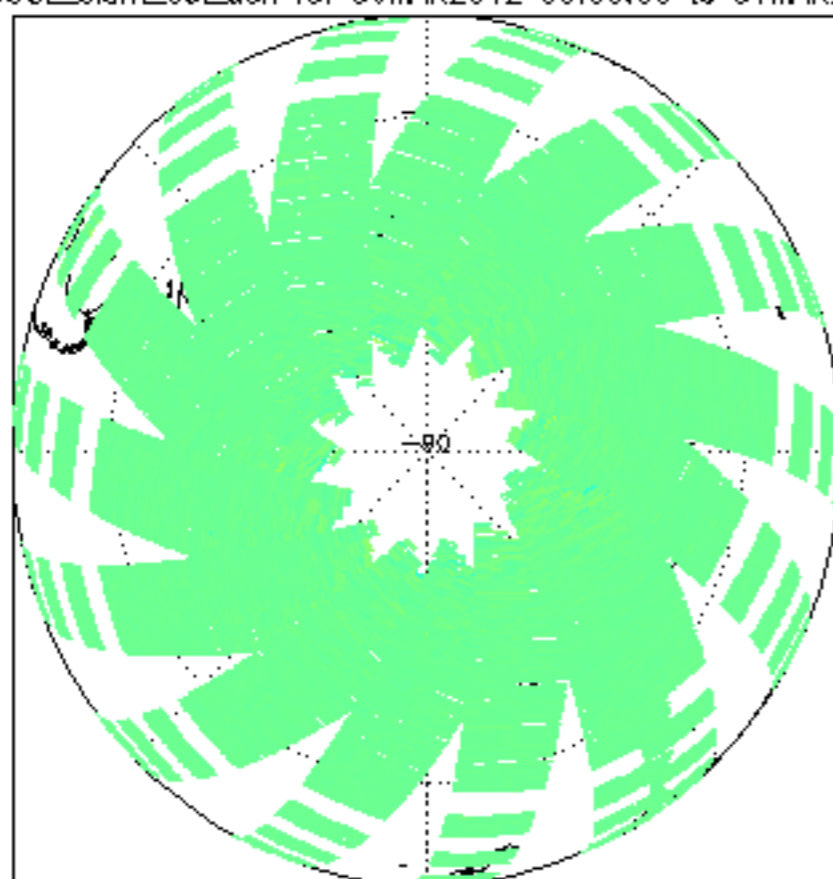




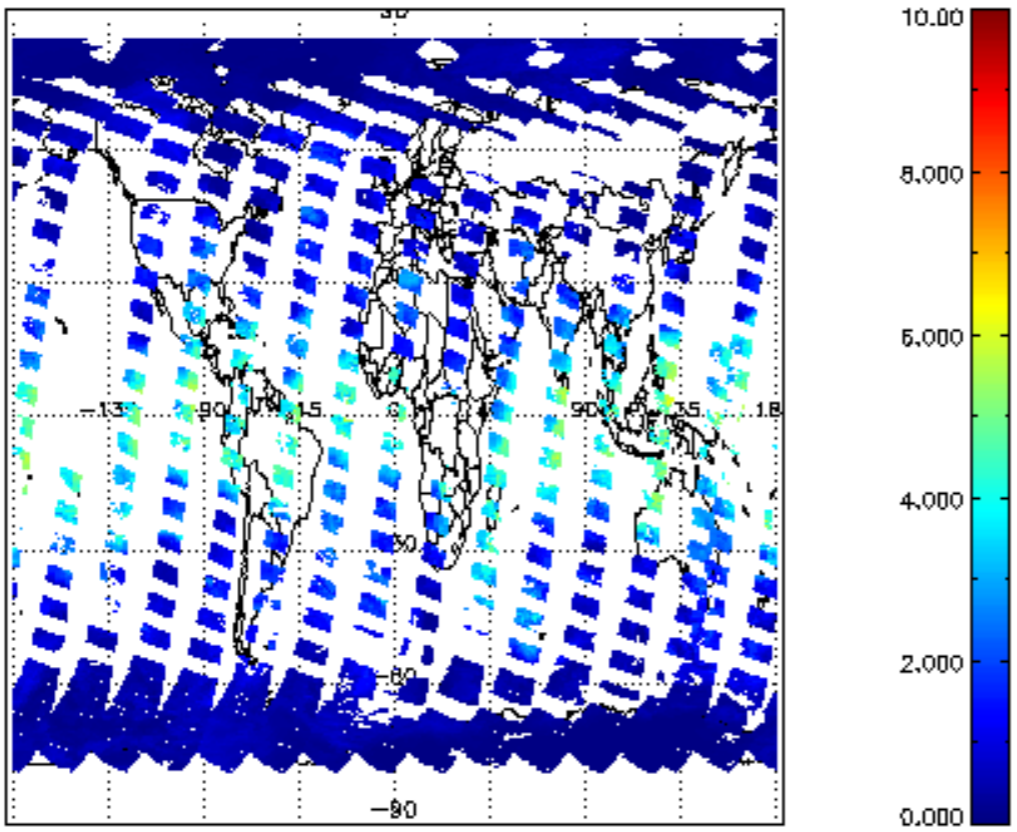
CIOL2P_NADUV6OCL_slant_col_den for 30MAR2012 00:00:00 to 31MAR2012 00:00:00 np; CIOL2P_NADUV6OCL_err_slant_col for 30MAR2012 00:00:00 to 31MAR2012 00:00:00 np



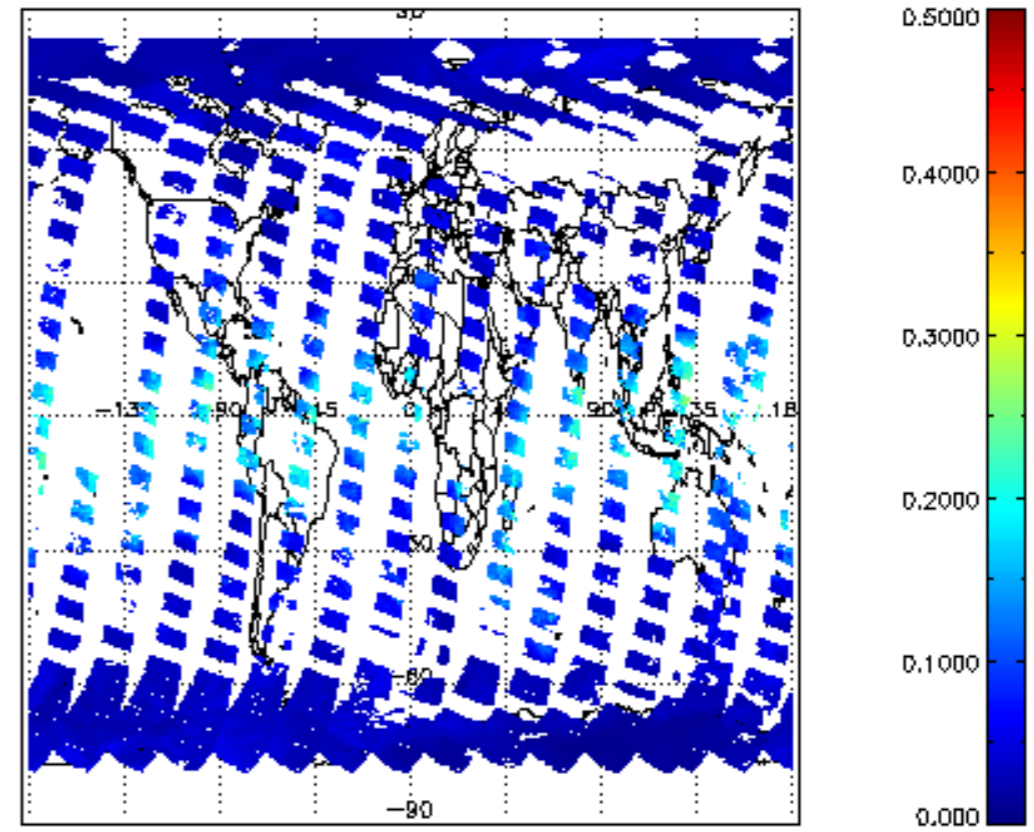
CIOL2P_NADUV6OCL_slant_coLden for 30MAR2012 00:00:00 to 31MAR2012 00:00:00 sp; CIOL2P_NADUV6OCL_err_slant_col for 30MAR2012 00:00:00 to 31MAR2012 00:00:00 sp



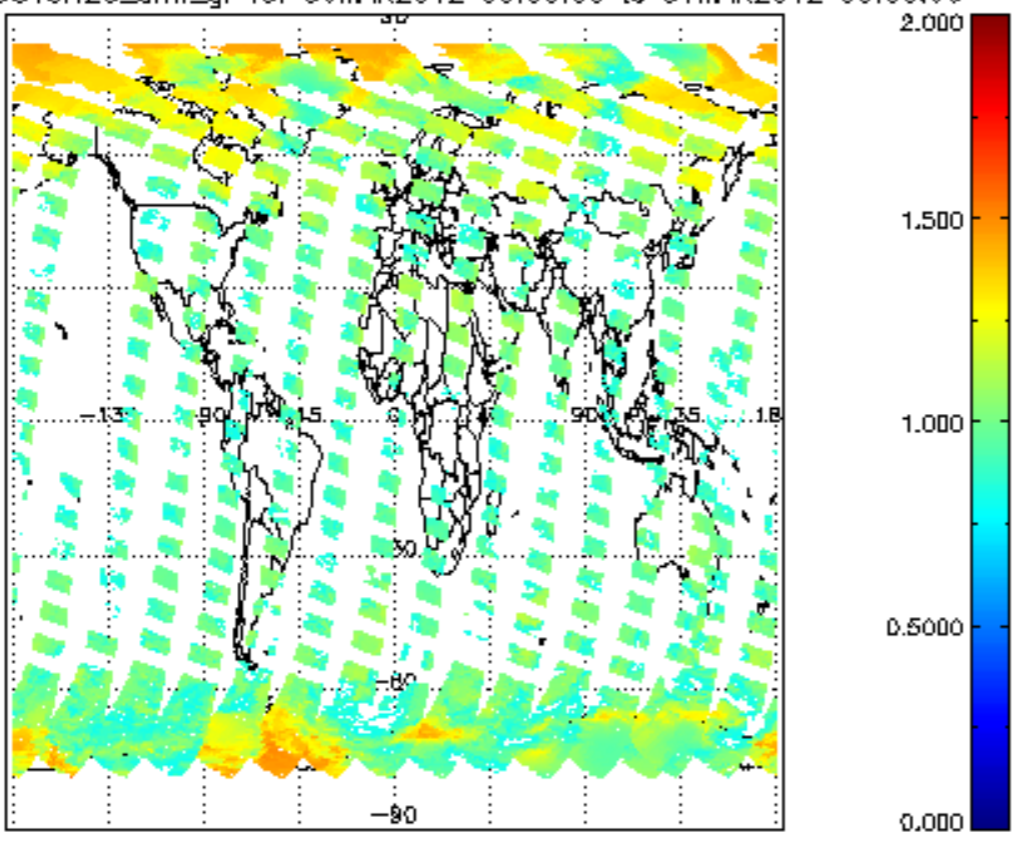
SCIOL2P_NADUV8H20_vcd for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



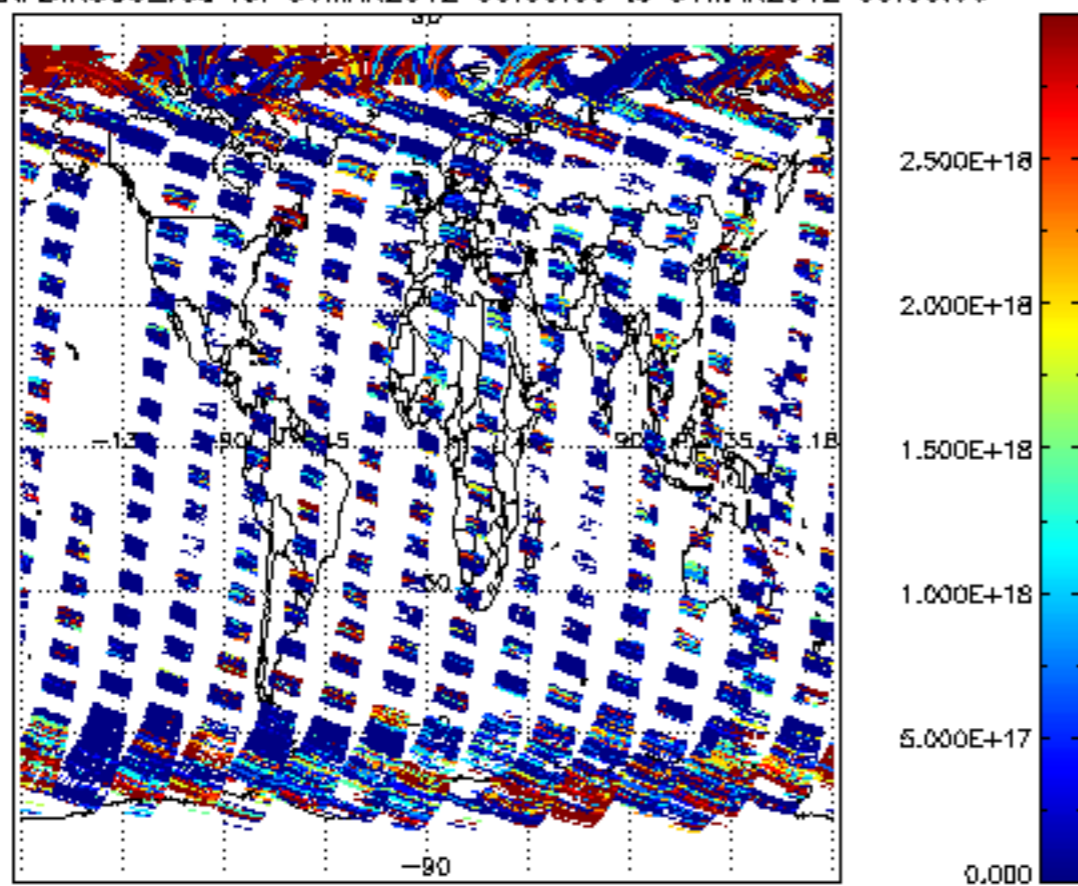
SCIOL2P_NADUV8H20_vcd_err for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



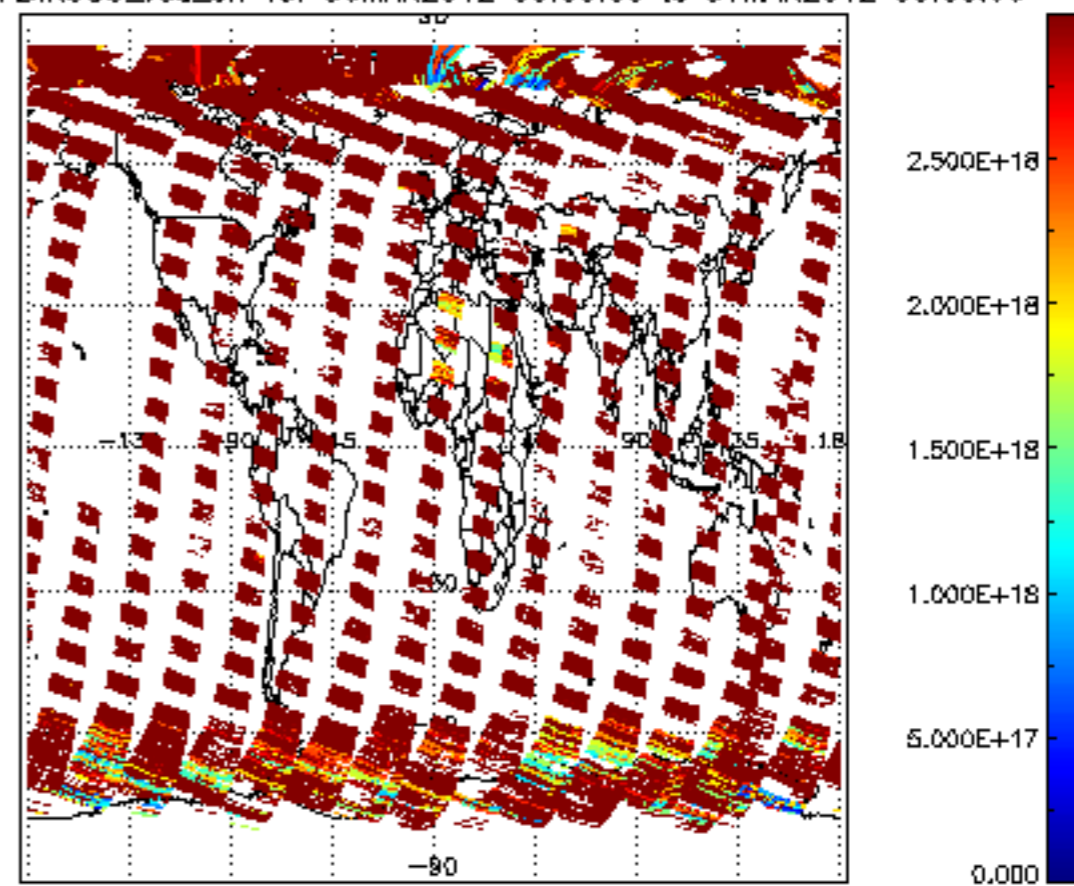
SCIOL2P_NADUV8H20_arnf_gr for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



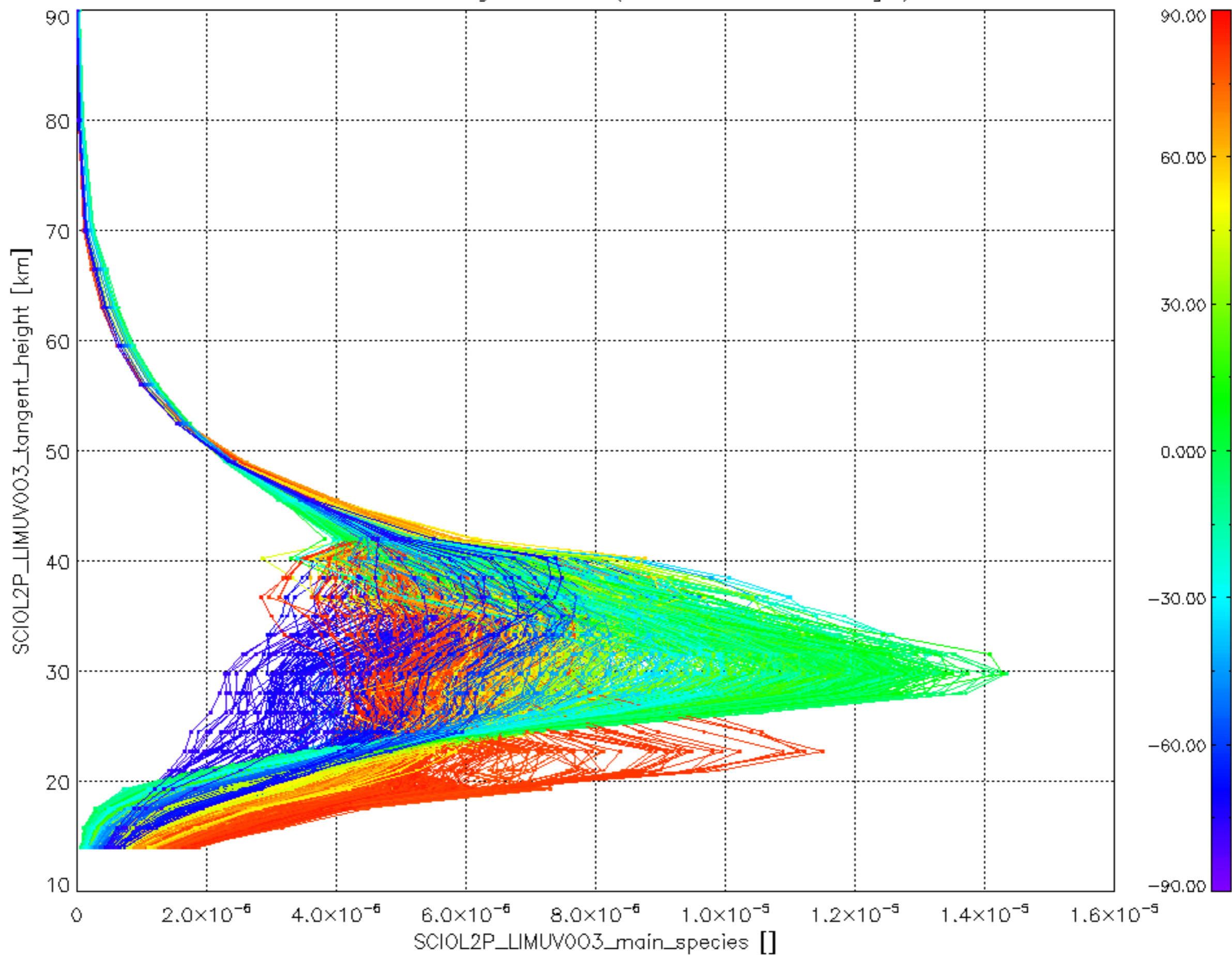
SCIOL2P_NADIR3CO_vcd for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



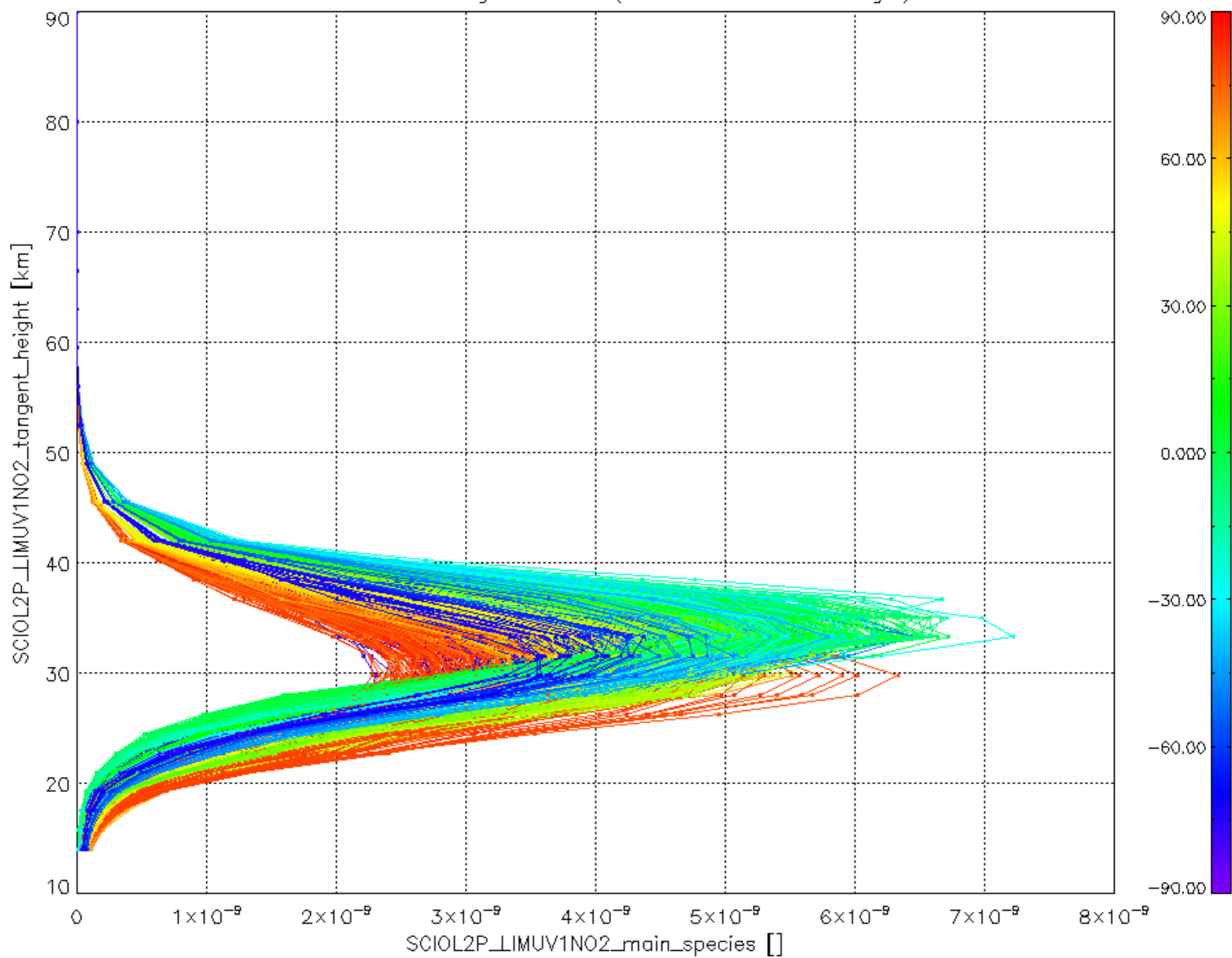
SCIOL2P_NADIR3CO_vcd_err for 30MAR2012 00:00:00 to 31MAR2012 00:00:00



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).

