

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	24FEB2012 17:06:35
Data source version	SCIA-OL/5.02-W
Processing scope for products	18SEP2002 00:00:00 to 19SEP2002 00:00:00
Start time of first product within scope	18SEP2002 00:06:00
Stop time of last product within scope	19SEP2002 00:31:42
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__2PWDPA20020918_000600_000033802009_00317_02876_1749.N1	18SEP2002 00:06:00	18SEP2002 01:02:21	0	GOOD
1	SCI_OL__2PWDPA20020918_014543_000035332009_00318_02877_1750.N1	18SEP2002 01:45:43	18SEP2002 02:44:36	0	GOOD
2	SCI_OL__2PWDPA20020918_032716_000033832009_00319_02878_1751.N1	18SEP2002 03:27:16	18SEP2002 04:23:40	0	GOOD
3	SCI_OL__2PWDPA20020918_050656_000035332009_00320_02879_1752.N1	18SEP2002 05:06:56	18SEP2002 06:05:49	0	GOOD
4	SCI_OL__2PWDPA20020918_064832_000033862009_00321_02880_1753.N1	18SEP2002 06:48:32	18SEP2002 07:44:59	0	GOOD

5	SCI_OL__2PWDP A20020918_082910_000033872009_00322_02881_1754.N1	18SEP2002 08:29:10	18SEP2002 09:25:38	0	GOOD
6	SCI_OL__2PWDP A20020918_100948_000033892009_00323_02882_1755.N1	18SEP2002 10:09:48	18SEP2002 11:06:17	0	GOOD
7	SCI_OL__2PWDP A20020918_115025_000033902009_00324_02883_1756.N1	18SEP2002 11:50:25	18SEP2002 12:46:56	0	GOOD
8	SCI_OL__2PWDP A20020918_133103_000033912009_00325_02884_1757.N1	18SEP2002 13:31:03	18SEP2002 14:27:35	0	GOOD
9	SCI_OL__2PWDP A20020918_151141_000033932009_00326_02885_1758.N1	18SEP2002 15:11:41	18SEP2002 16:08:14	0	GOOD
10	SCI_OL__2PWDP A20020918_165219_000033942009_00327_02886_1759.N1	18SEP2002 16:52:19	18SEP2002 17:48:53	0	GOOD
11	SCI_OL__2PWDP A20020918_183227_000034492009_00328_02887_1760.N1	18SEP2002 18:32:27	18SEP2002 19:29:57	0	GOOD
12	SCI_OL__2PWDP A20020918_201309_000034202009_00329_02888_1761.N1	18SEP2002 20:13:09	18SEP2002 21:10:10	0	GOOD
13	SCI_OL__2PWDP A20020918_215337_000034312009_00330_02889_1762.N1	18SEP2002 21:53:37	18SEP2002 22:50:49	0	GOOD
14	SCI_OL__2PWDP A20020918_233414_000034472009_00331_02890_1763.N1	18SEP2002 23:34:14	19SEP2002 00:31:42	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: 101480

Total number of cloud data DSRs with good quality flag (=0): 101480 (100.0 %)

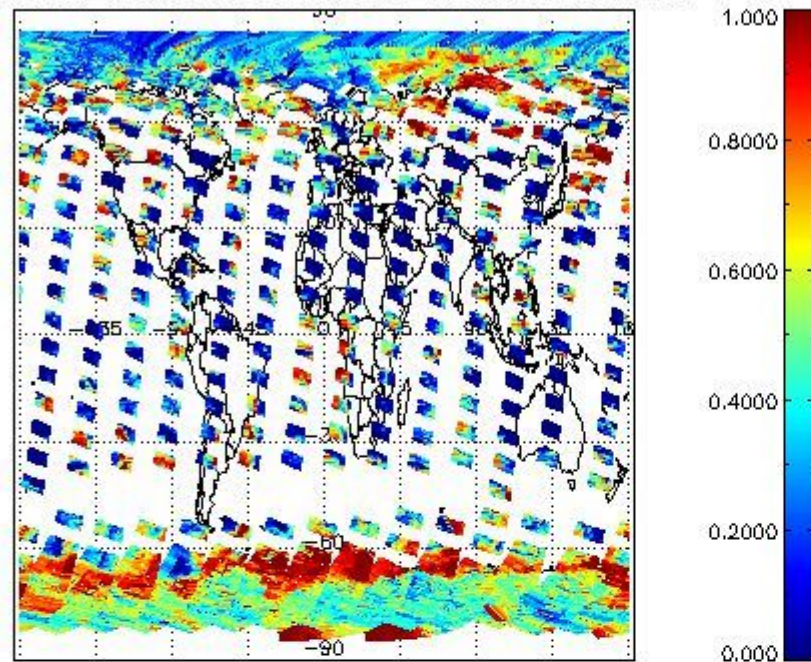
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	101480	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	101480	0.23029	0.25000	0.12500	1.0000	0.099916	s
CL_FRAC	101480	0.41262	0.38080	0.0000	1.0000	0.32897	
CL_FRAC_ERR	101480	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	101480	7.3693	8.0000	4.0000	32.000	3.1973	
PMD_READ_CL[0]	101480	0.76984	0.0000	0.0000	32.000	2.0049	-
PMD_READ_CL[1]	101480	1.7892	0.0000	0.0000	20.000	2.9359	-
CL_TOP_HEIGHT	92430	3.3516	1.7972	0.0000	17.000	3.6720	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	92430	55.099	47.984	0.0000	101.00	41.293	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	101480	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	101480	11001010	11000100	11000000	11100000	3249.2	
AERO_ABSO_IND	101480	0.16691	0.0000	0.0000	19.898	0.45308	
AERO_IND_DIAG	101480	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	101480	01110000	11000000	00000000	11000000	24190.	

Time and geolocation plots:

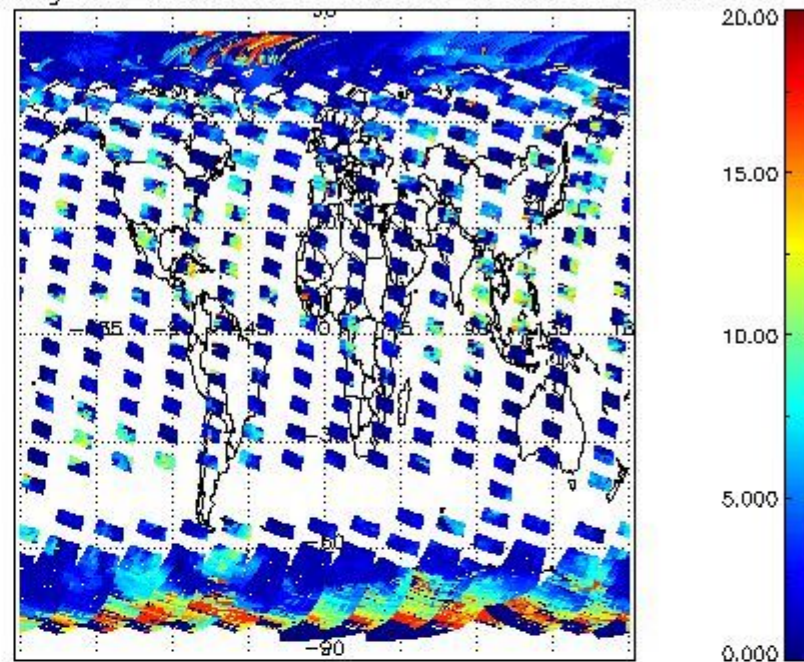
Plots are available for the following parameters:

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

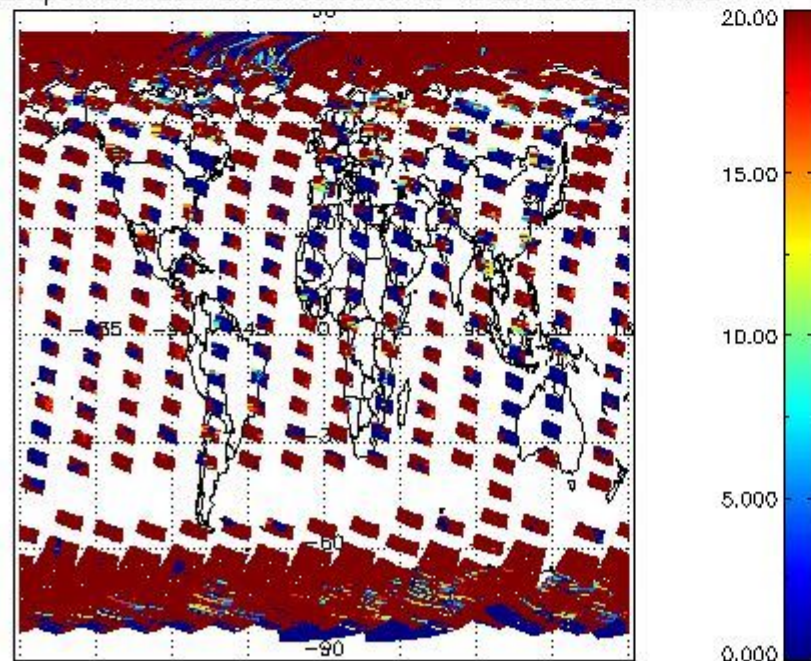
cL_frac for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



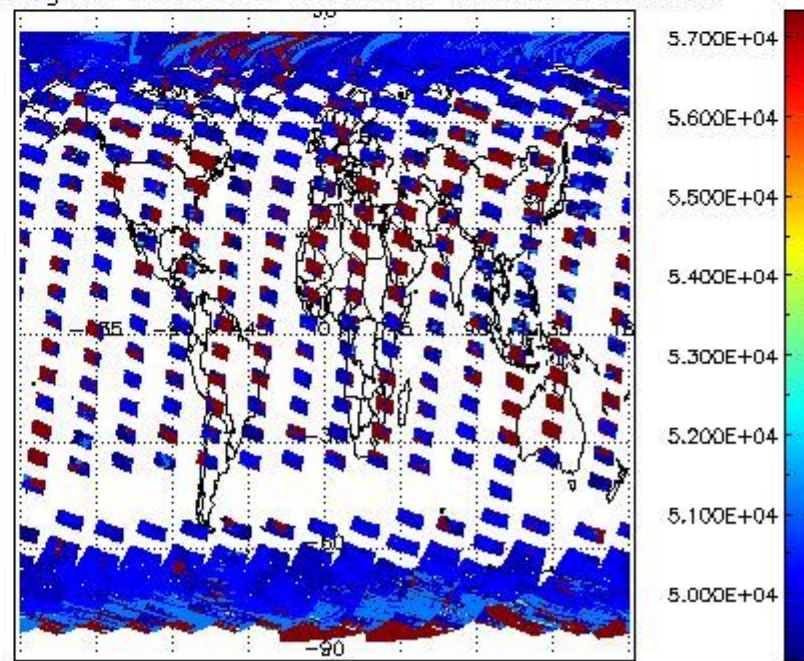
cL_top_height for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



cL_opt_depth for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



cloud_flags for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



2.2.2 Nadir

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

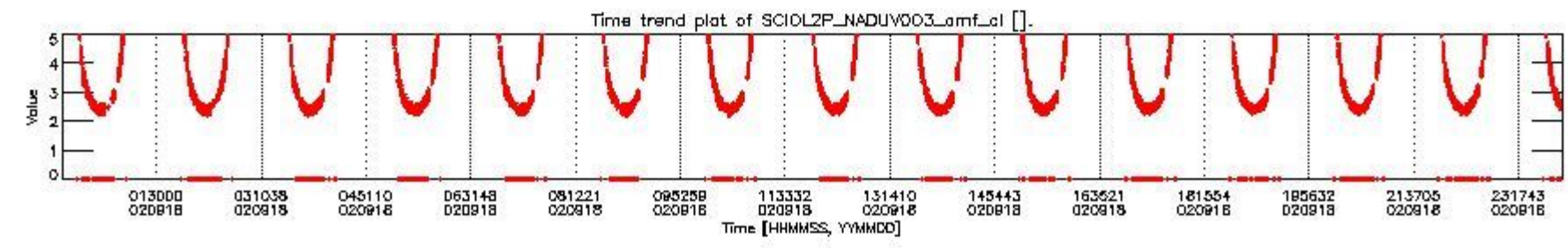
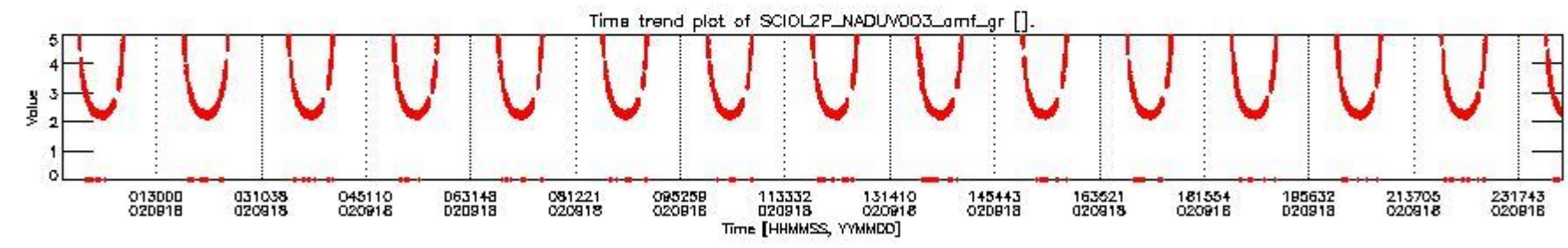
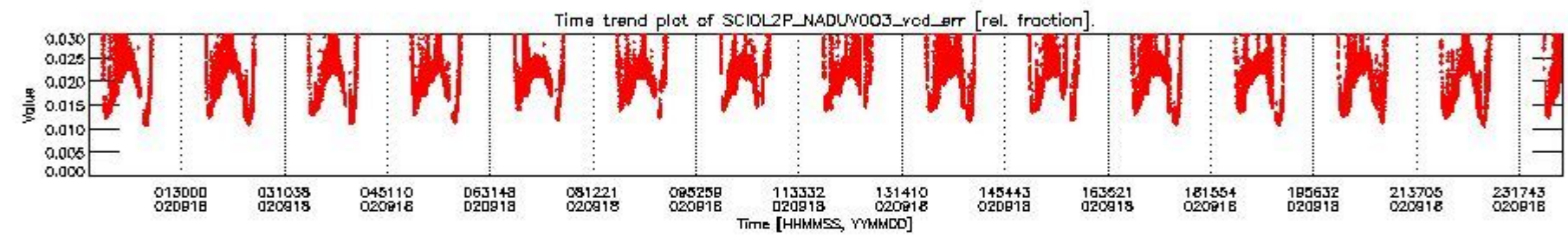
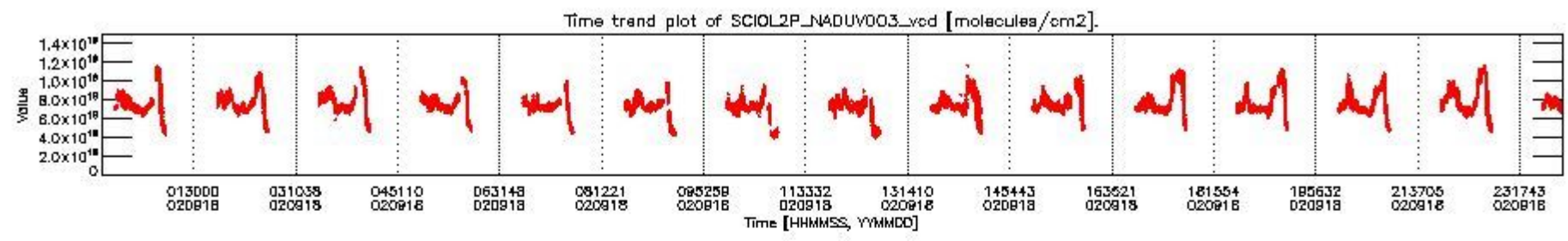
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

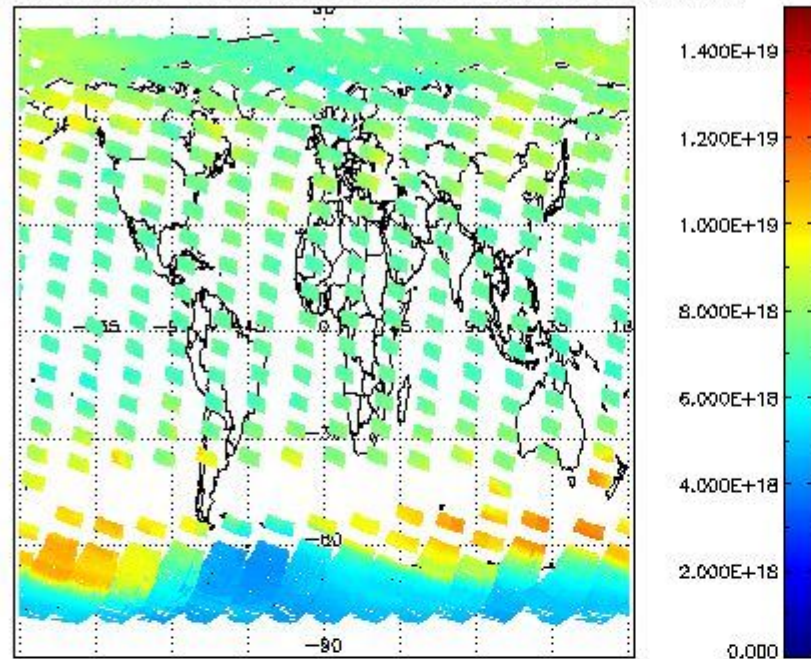
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

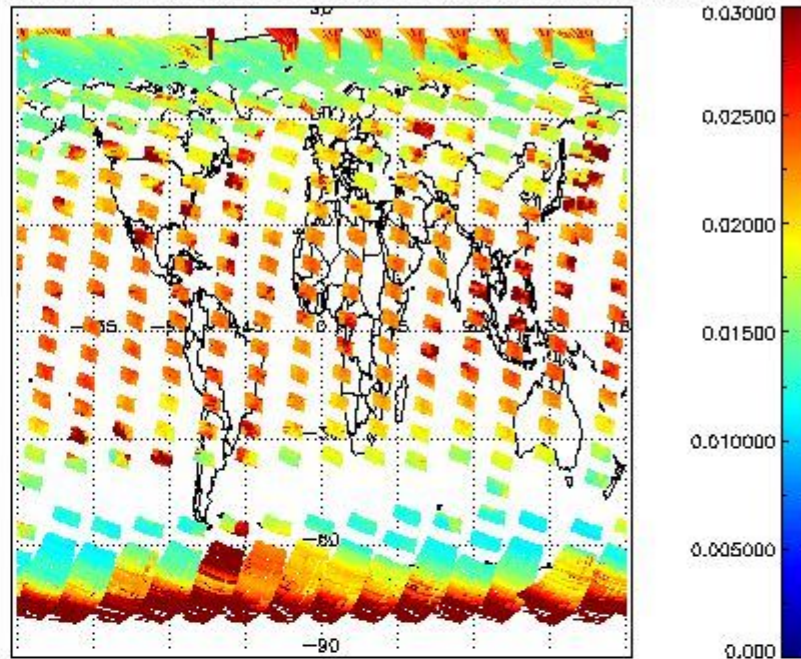
2.2.2.1 O3 (UV0)



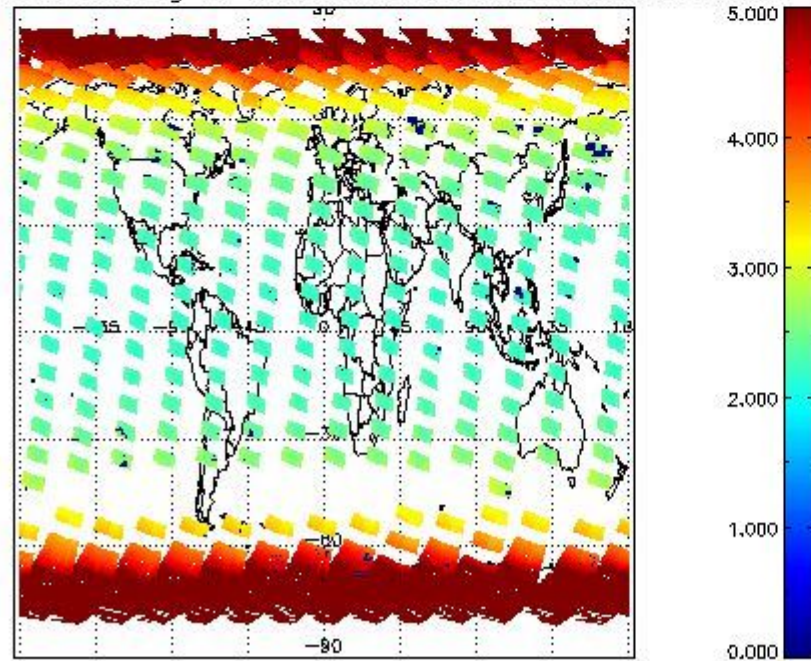
SCIOL2P_NADUV003_vcd for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



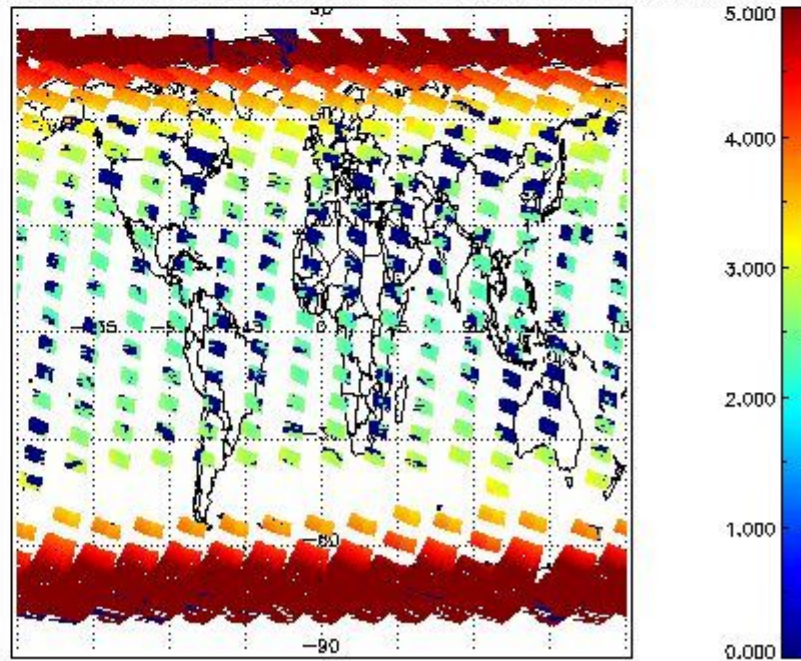
SCIOL2P_NADUV003_vcd_err for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



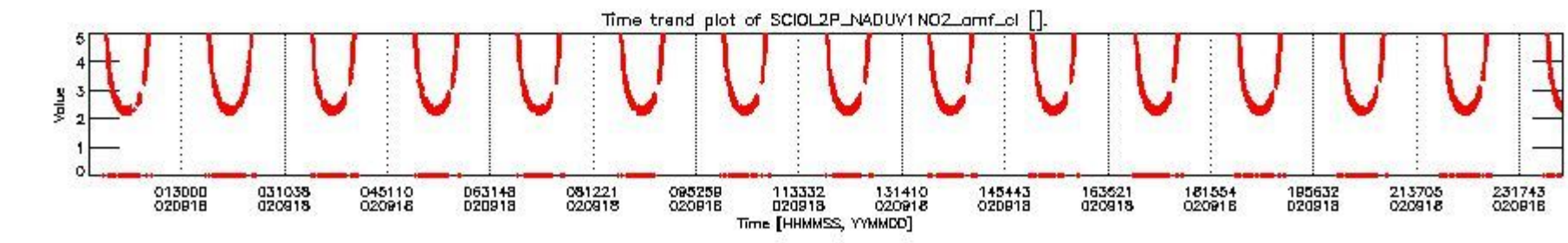
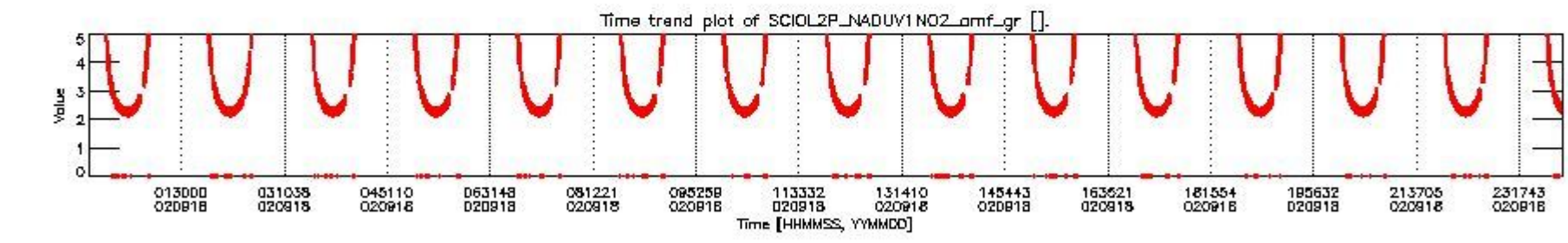
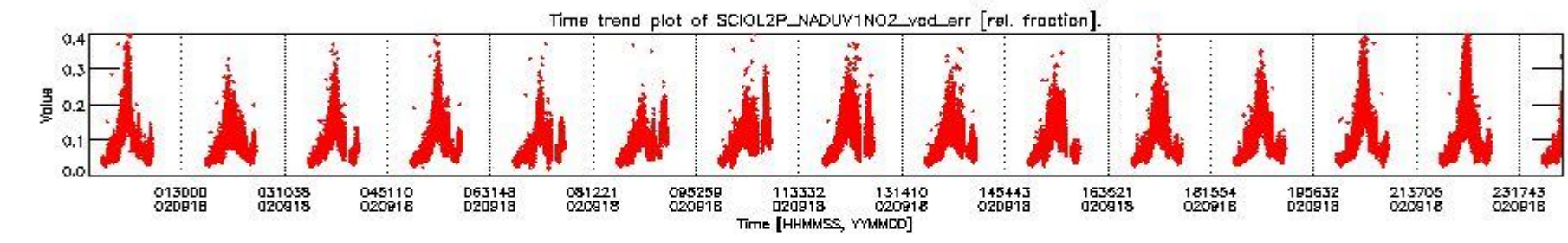
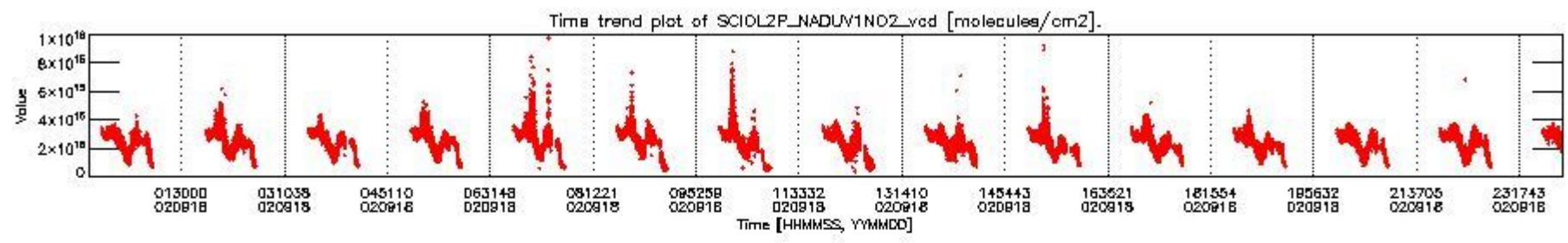
SCIOL2P_NADUV003_amf_gr for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



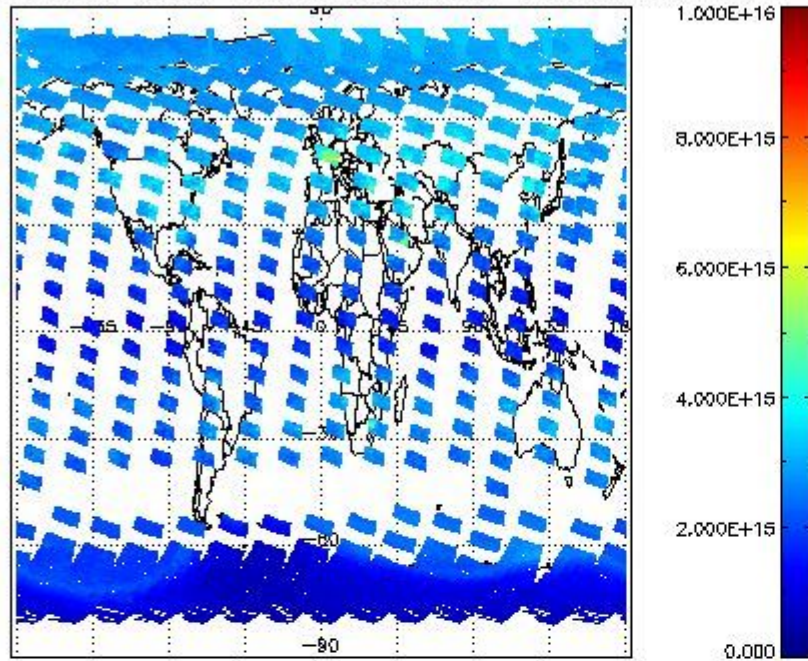
SCIOL2P_NADUV003_amf_cl for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



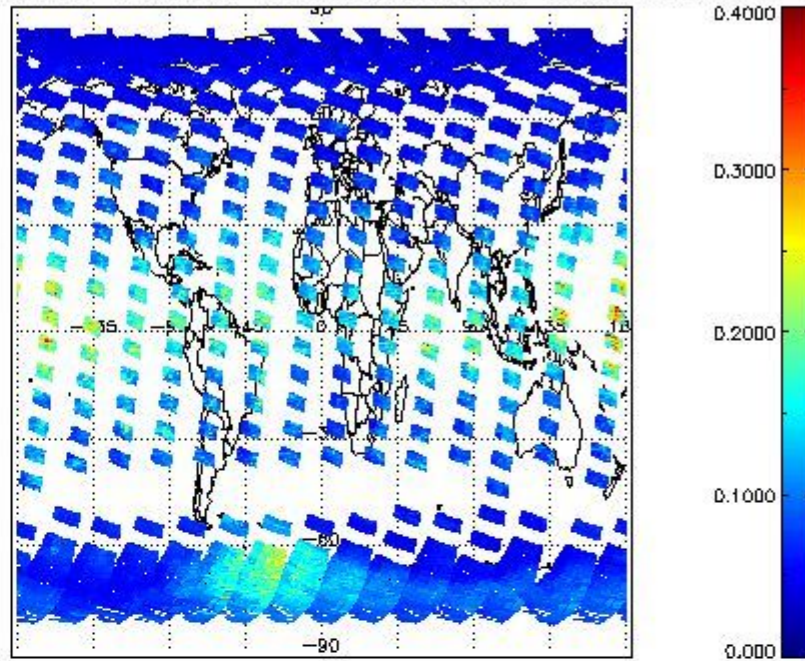
2.2.2.2 NO2 (UV1)



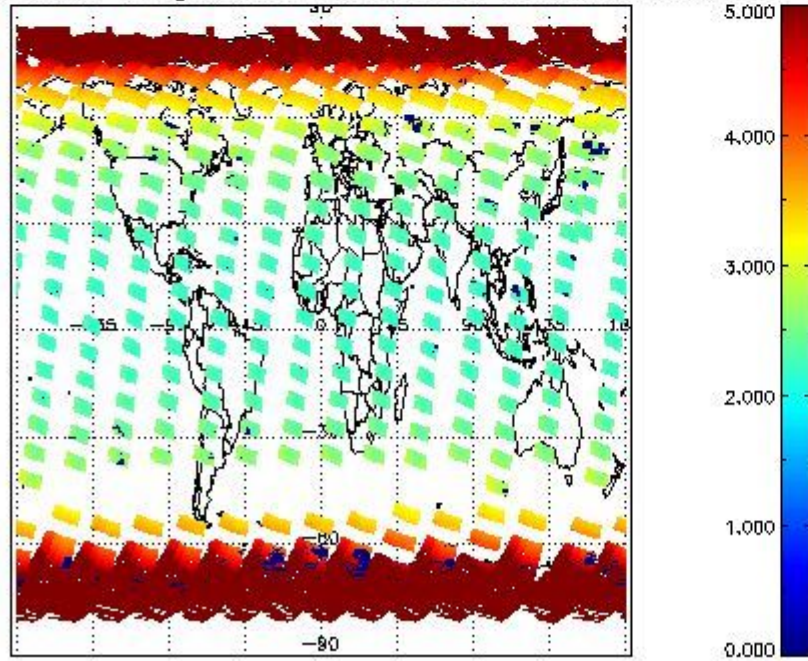
SCIOL2P_NADUV1N02_vcd for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



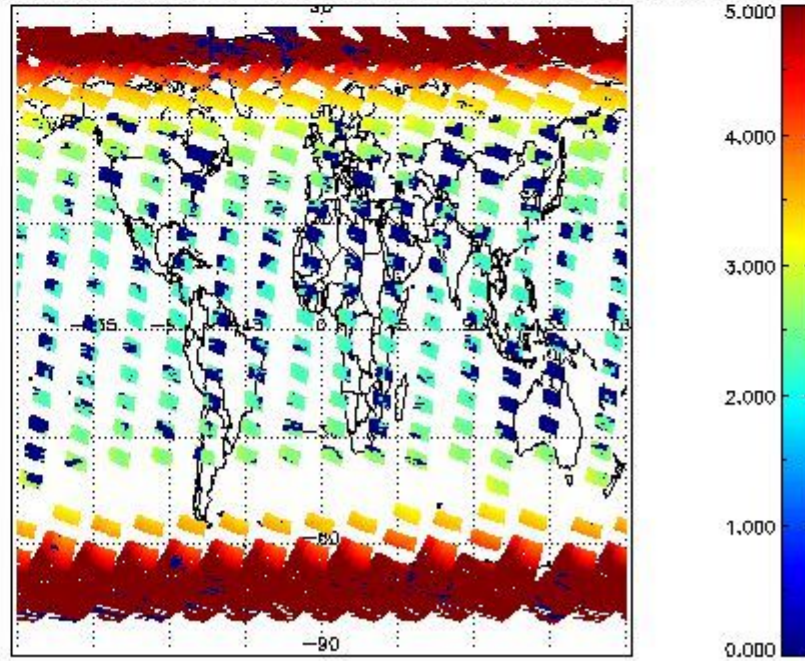
SCIOL2P_NADUV1N02_vcd_err for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



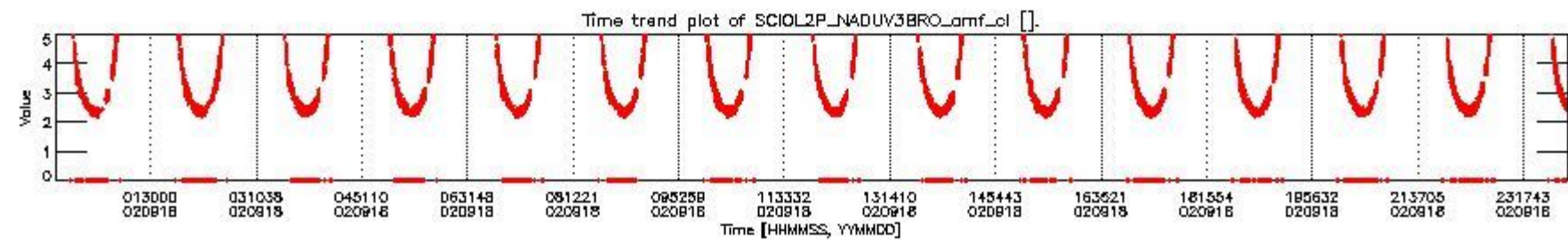
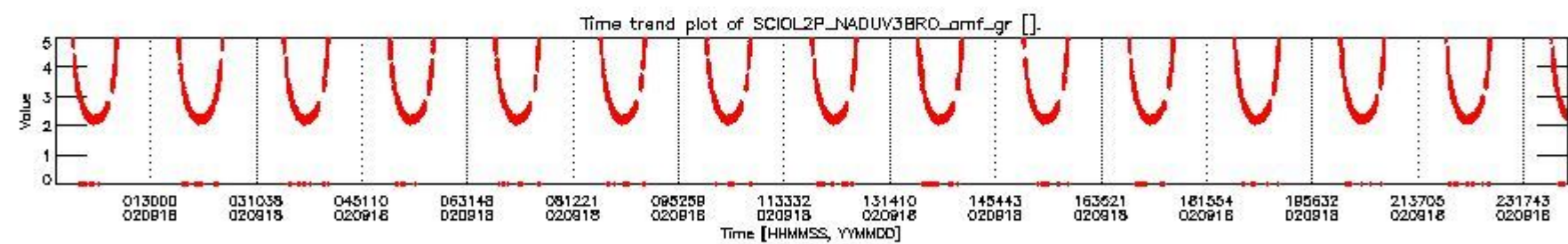
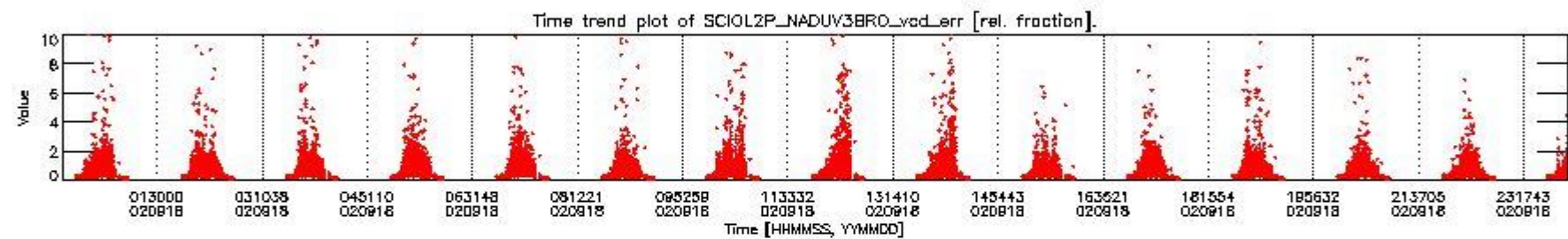
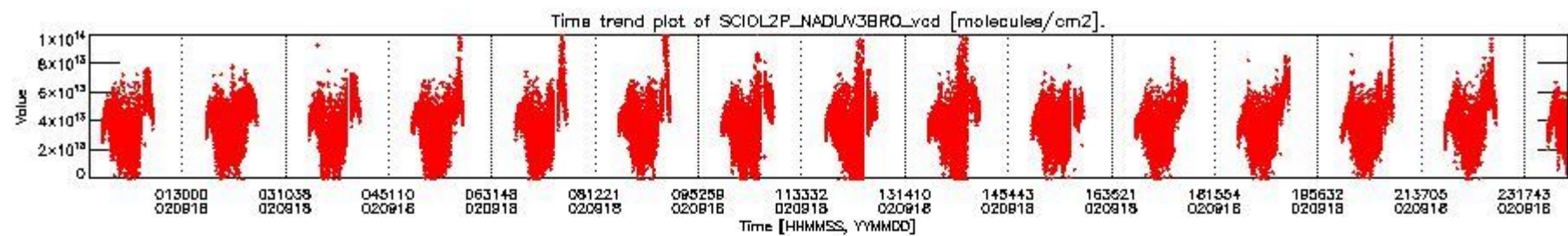
SCIOL2P_NADUV1N02_amf_gr for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



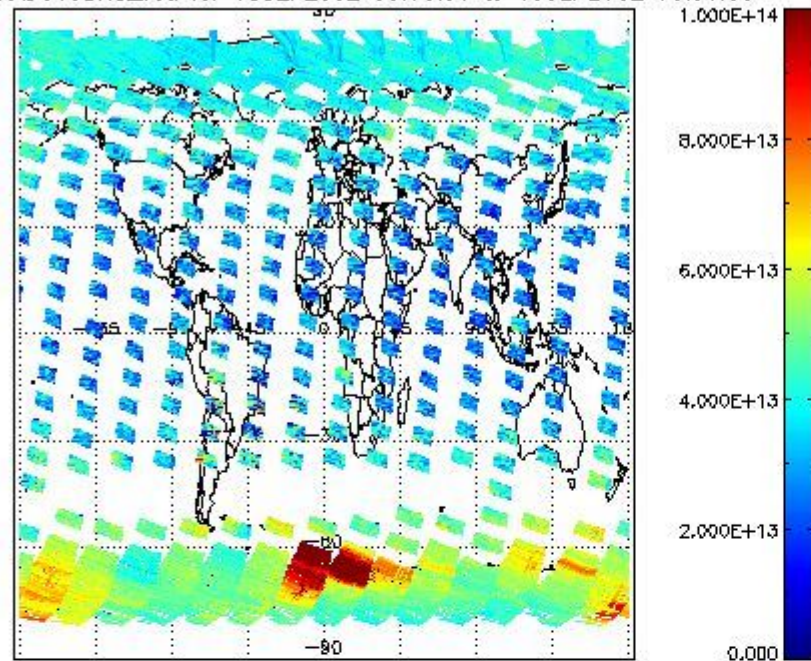
SCIOL2P_NADUV1N02_amf_cl for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



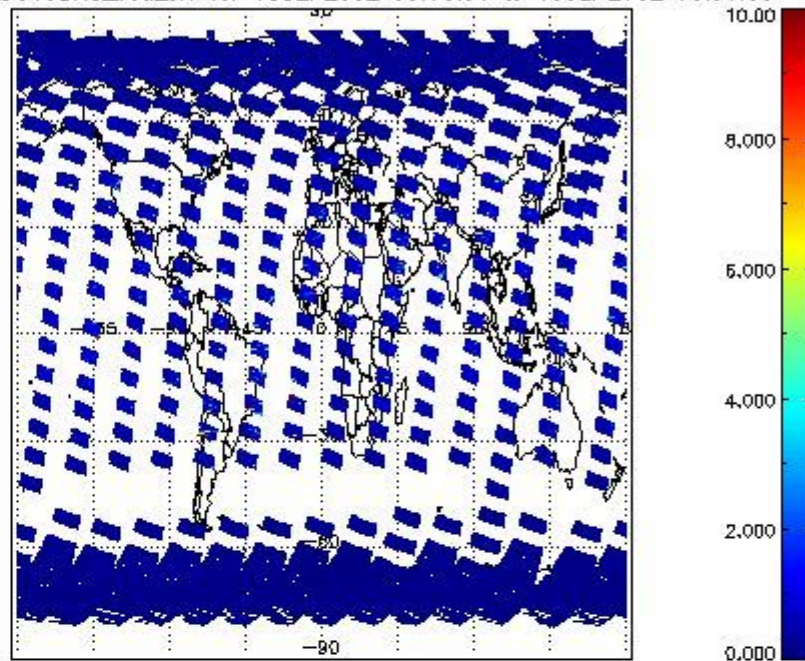
2.2.2.3 BrO (UV3)



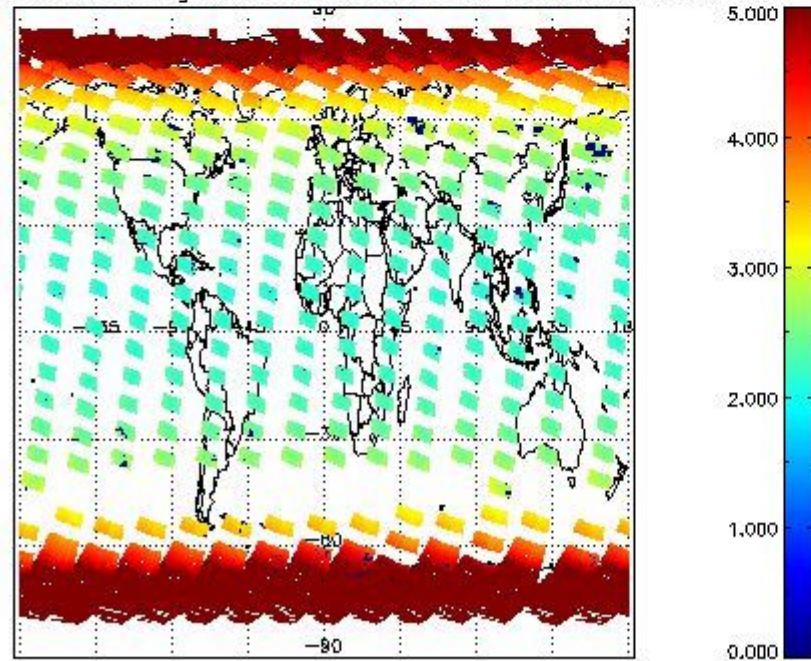
SCIOL2P_NADUV3BRO_vcd for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



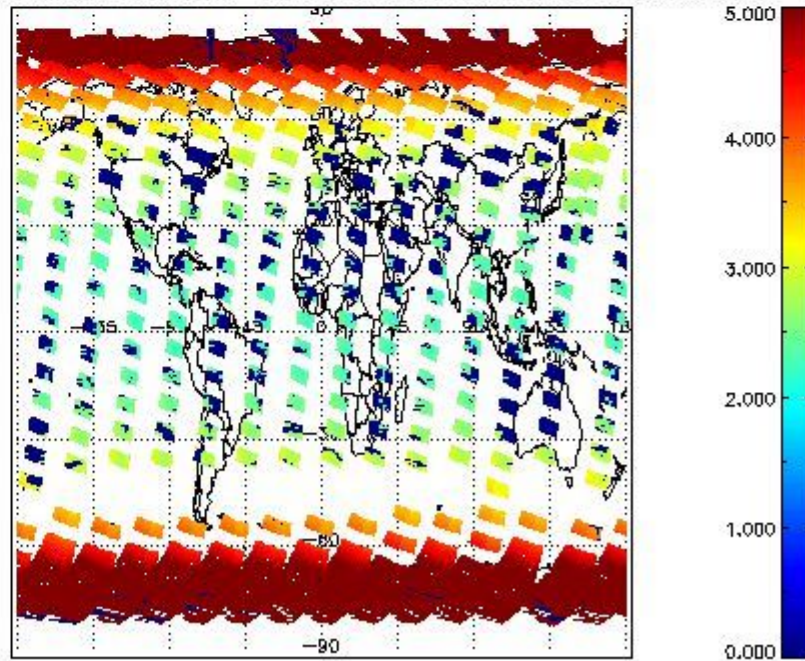
SCIOL2P_NADUV3BRO_vcd_err for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



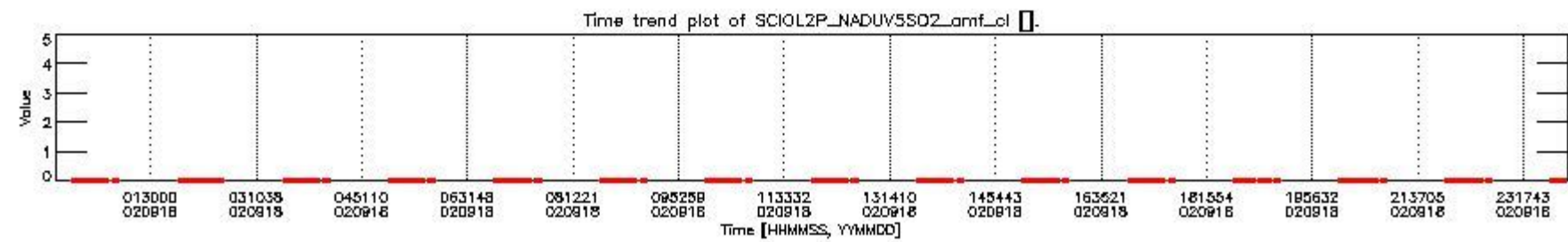
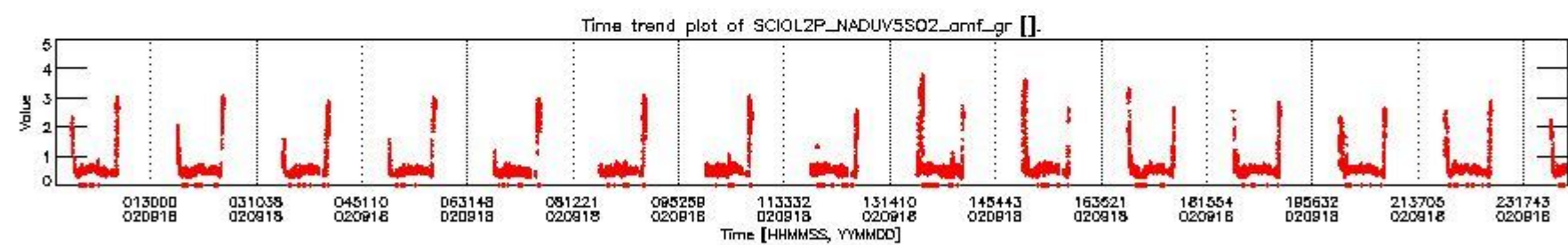
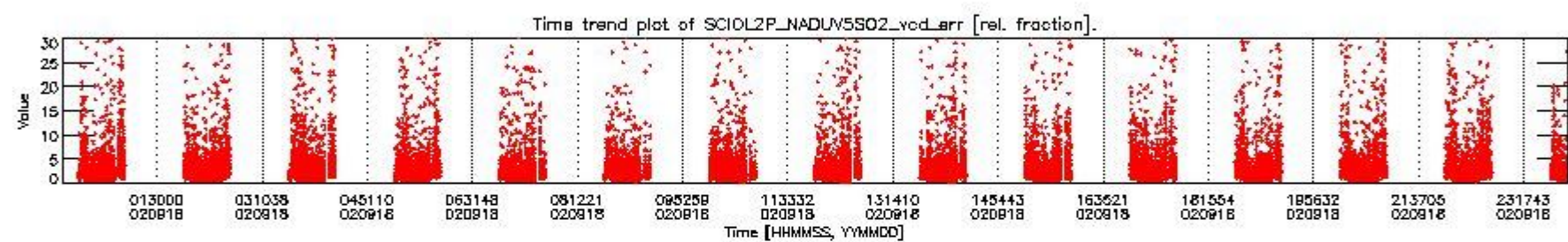
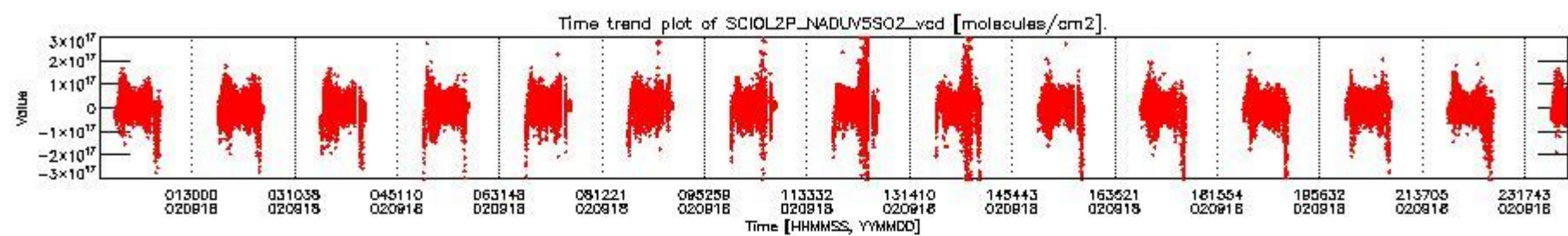
SCIOL2P_NADUV3BRO_amf_gr for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



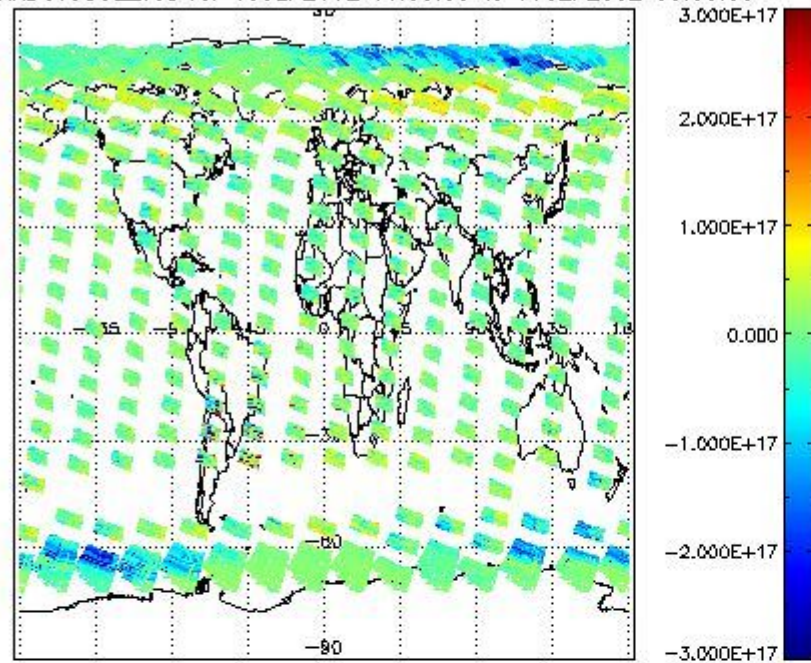
SCIOL2P_NADUV3BRO_amf_cl for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



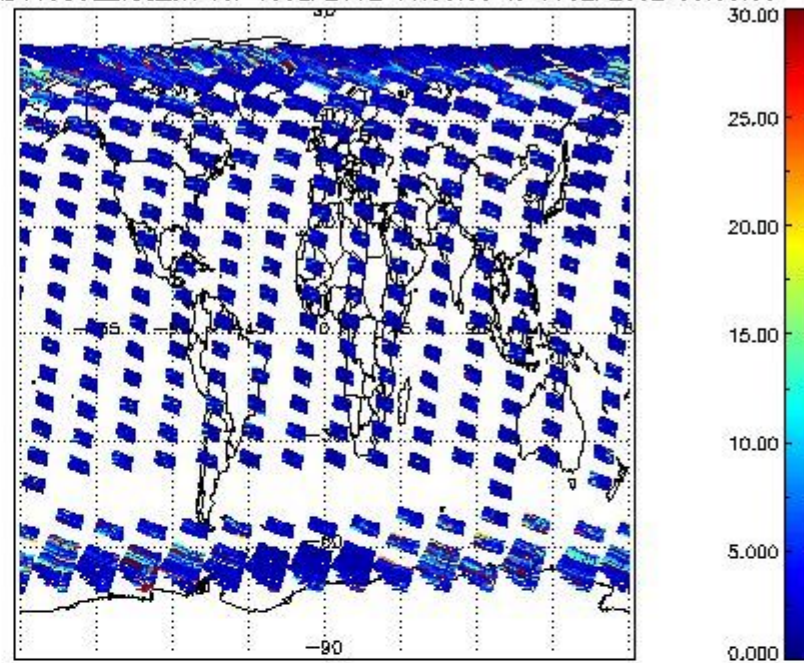
2.2.2.4 SO2 (UV5)



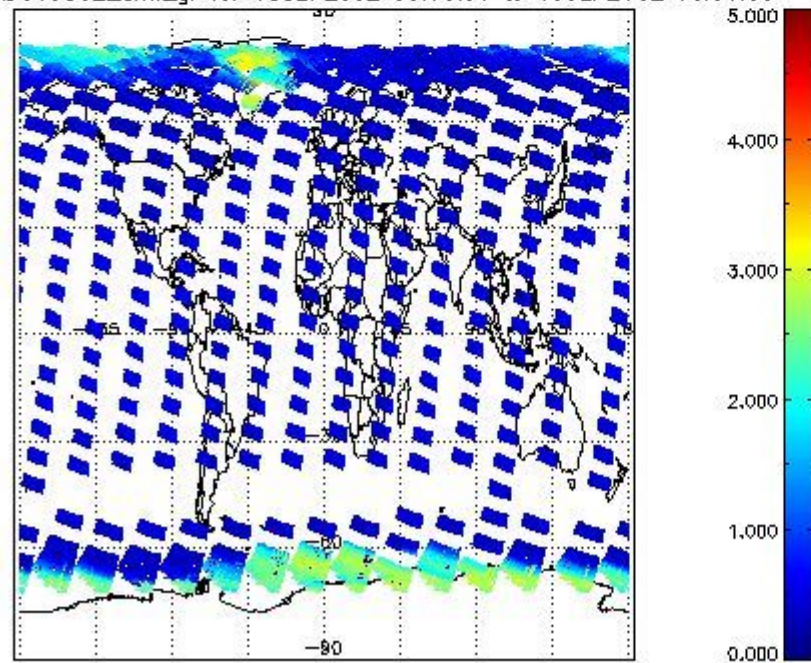
SCIOL2P_NADUV5S02_vcd for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



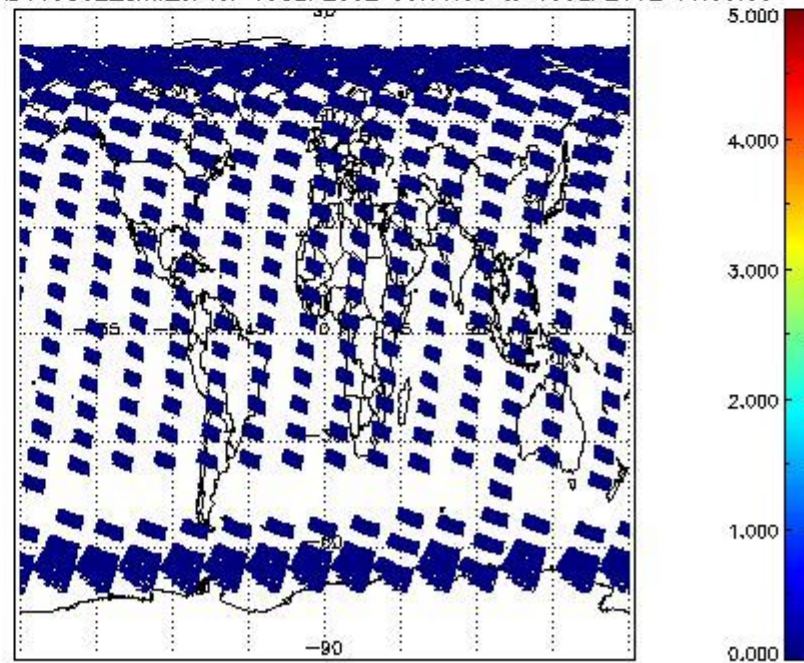
SCIOL2P_NADUV5S02_vcd_err for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



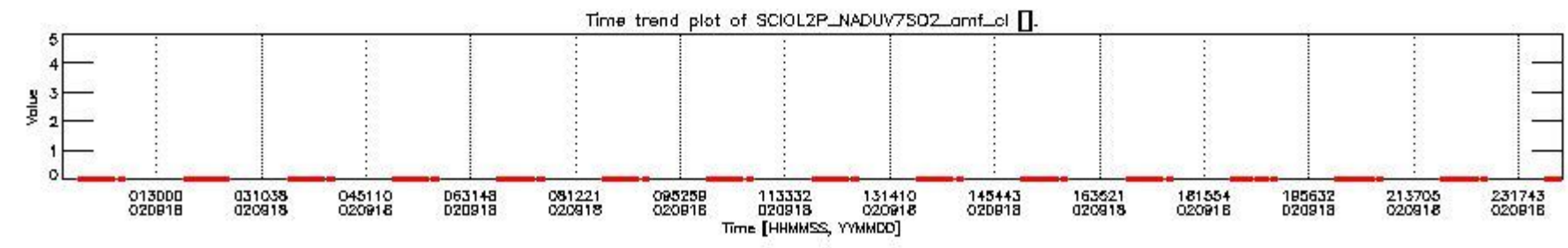
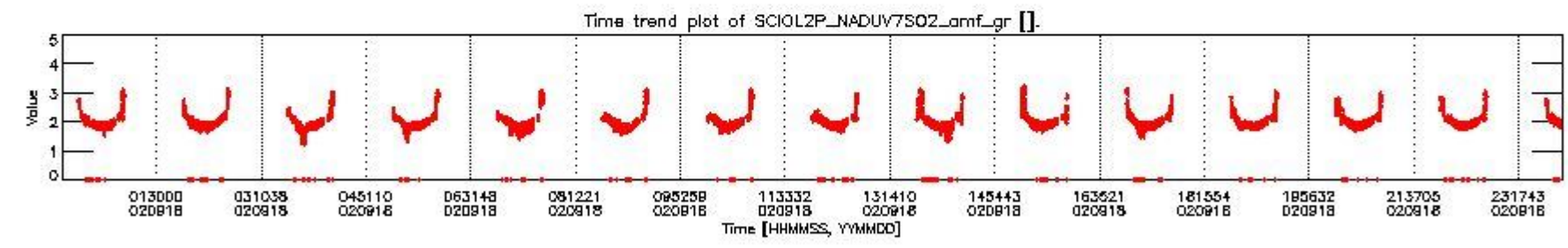
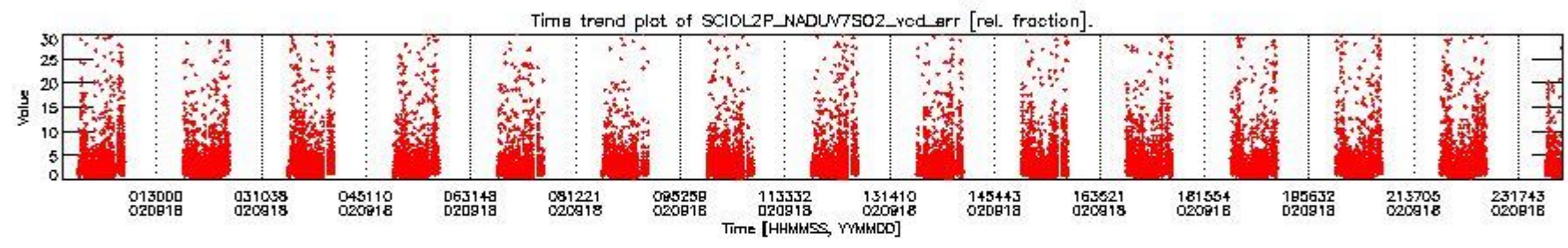
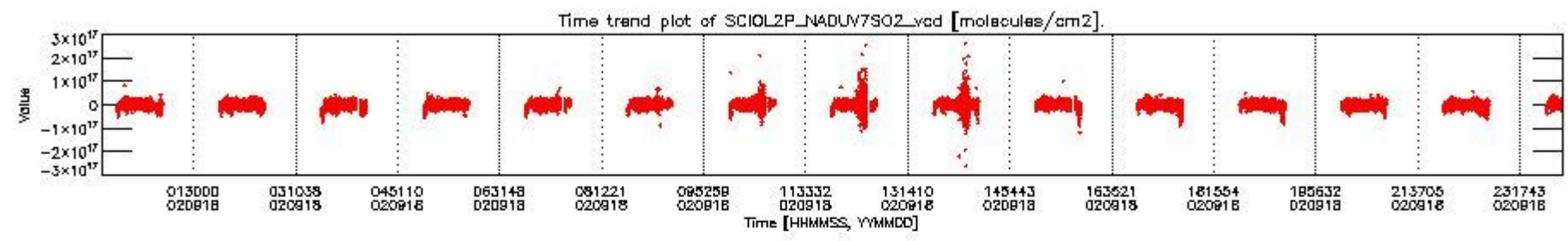
SCIOL2P_NADUV5S02_amf_gr for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



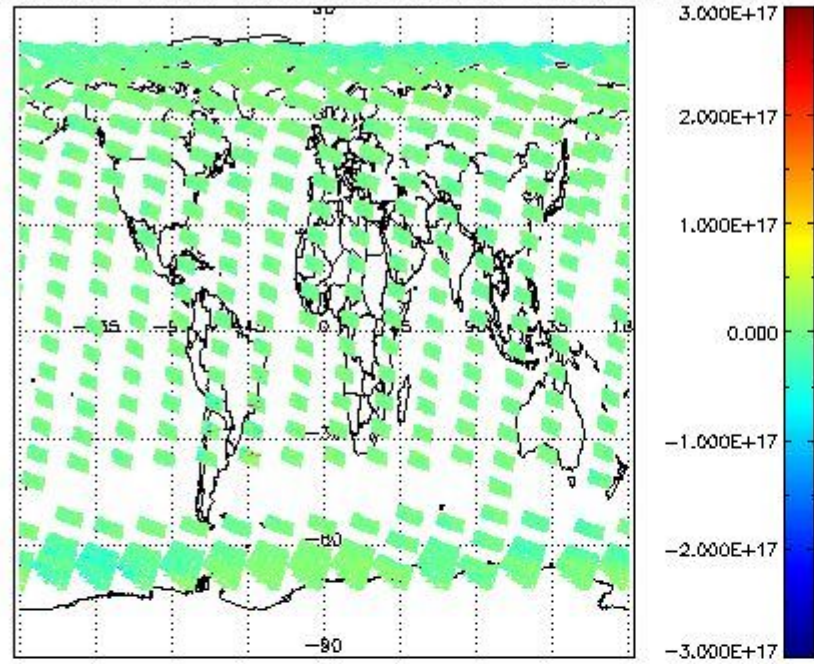
SCIOL2P_NADUV5S02_amf_cl for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



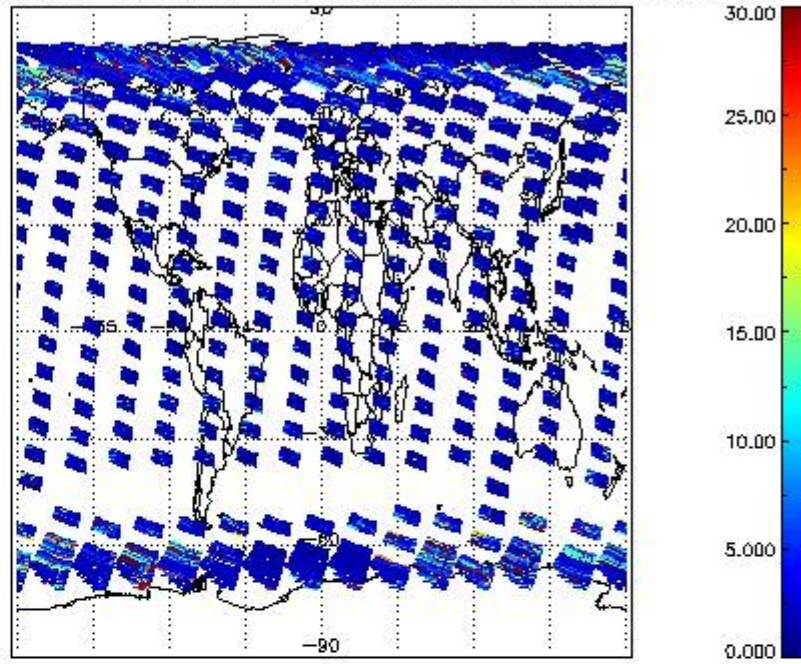
2.2.2.5 SO2 (UV7)



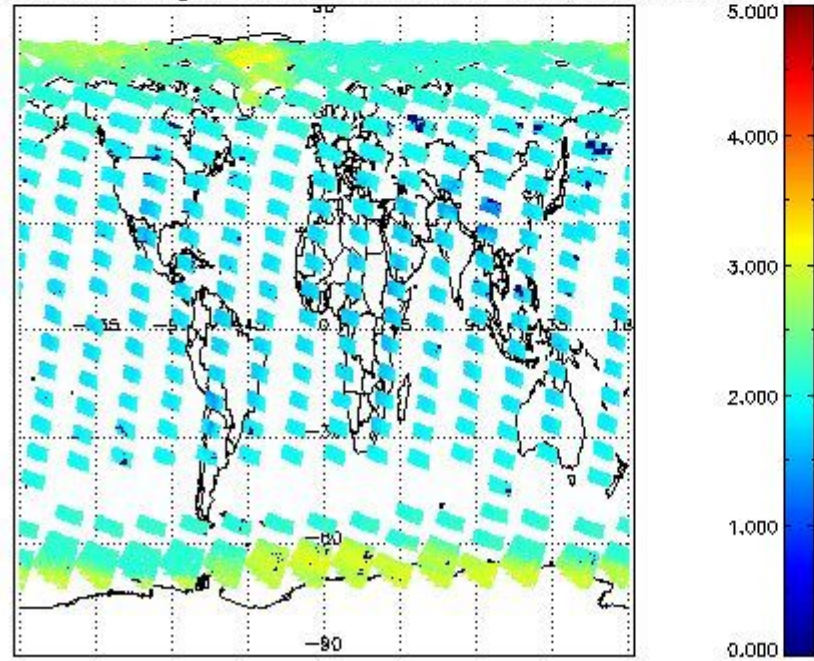
SCIOL2P_NADUV7S02_vcd for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



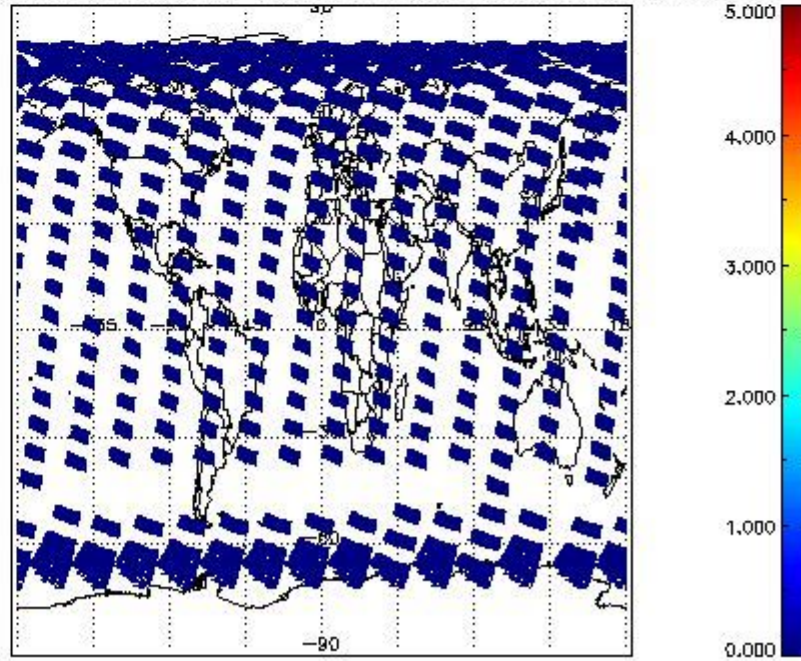
SCIOL2P_NADUV7S02_vcd_err for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



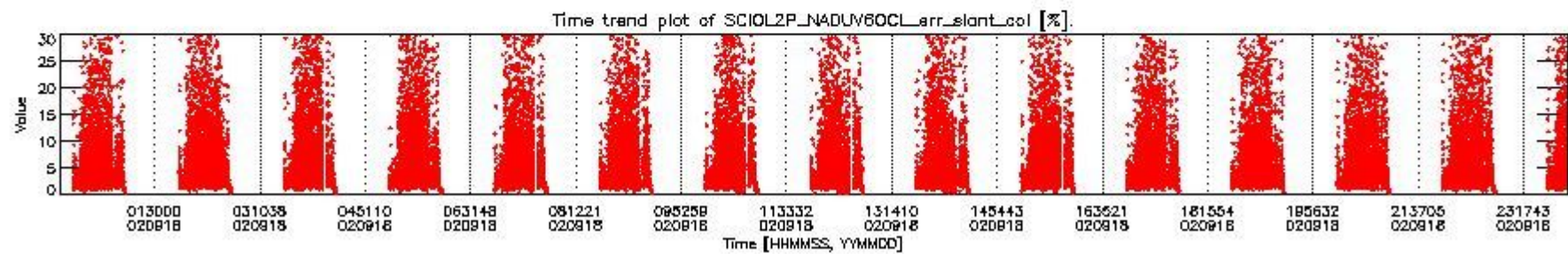
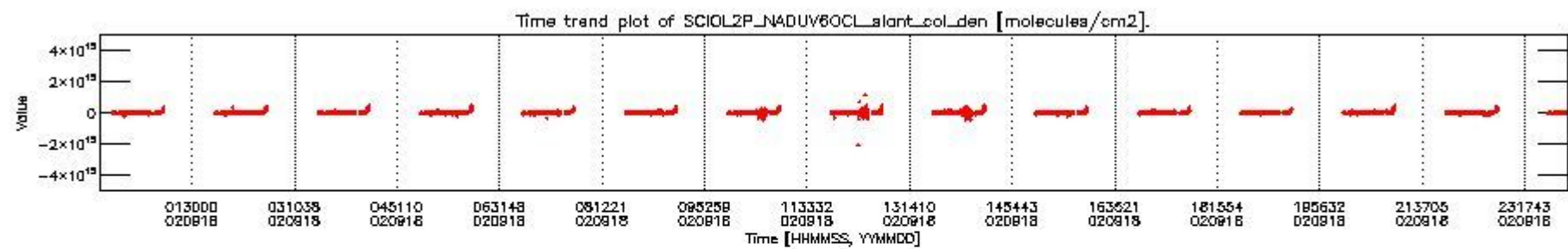
SCIOL2P_NADUV7S02_amf_gr for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



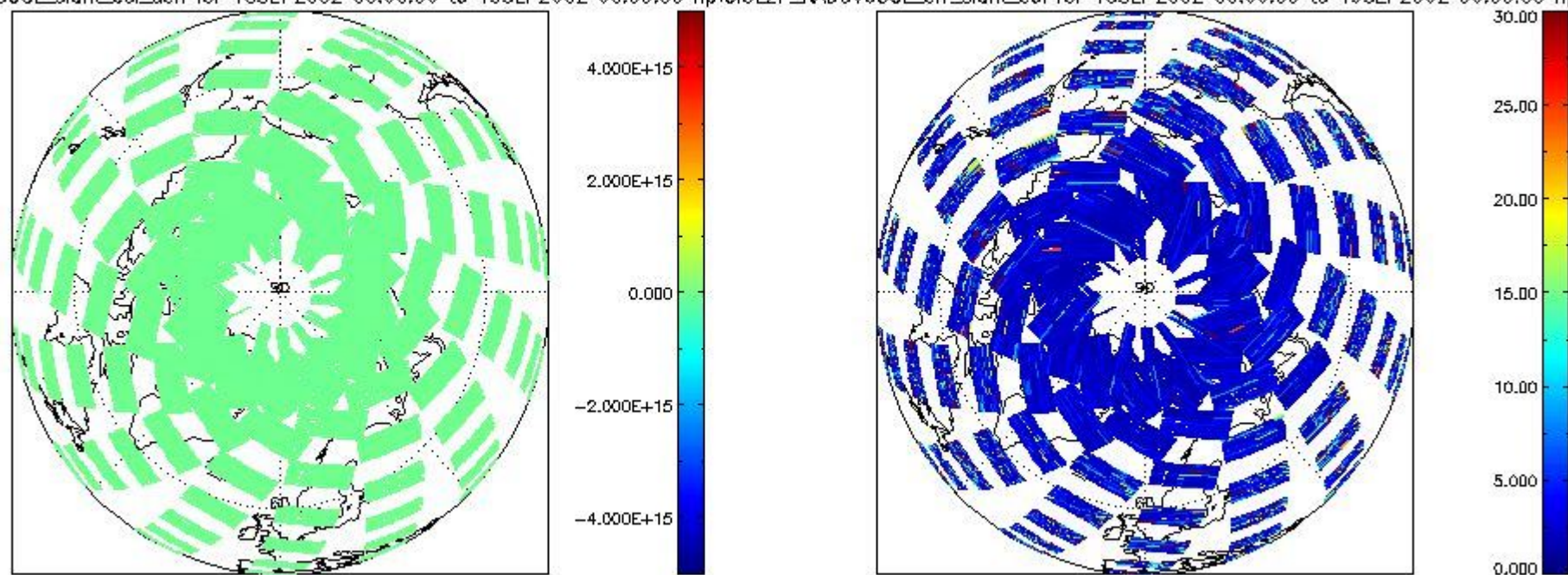
SCIOL2P_NADUV7S02_amf_cl for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



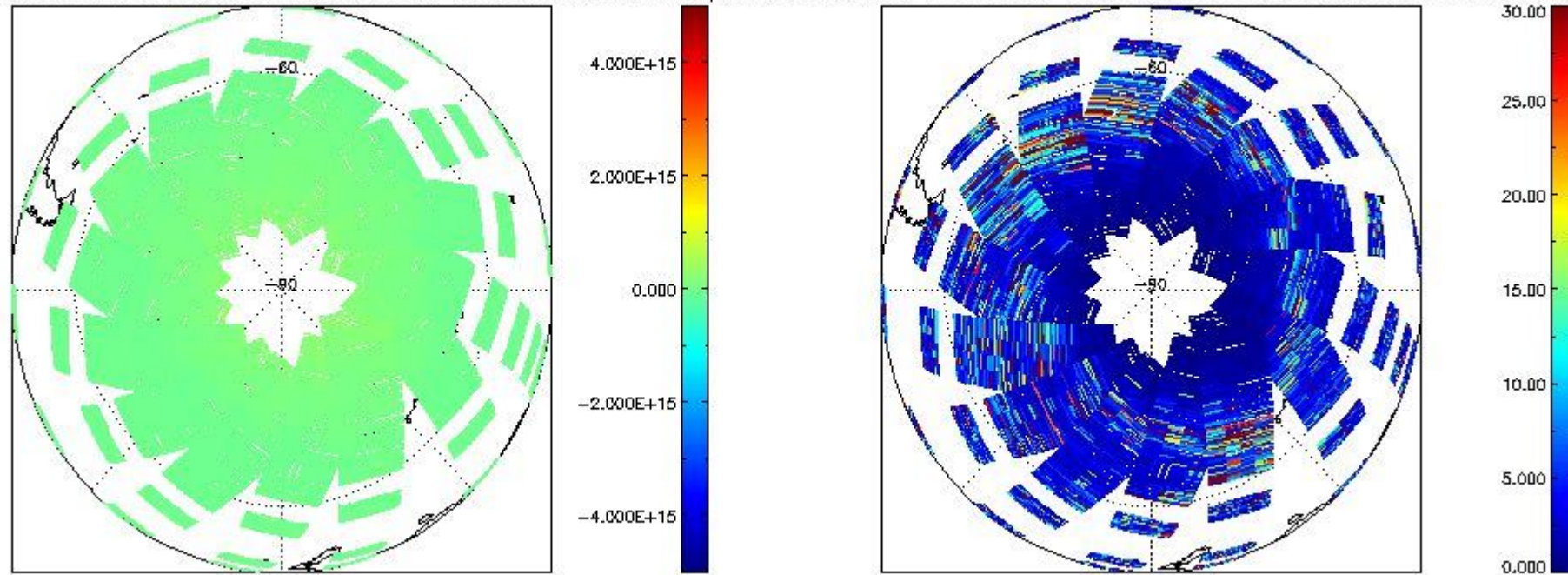
2.2.2.6 OCIO (UV6)



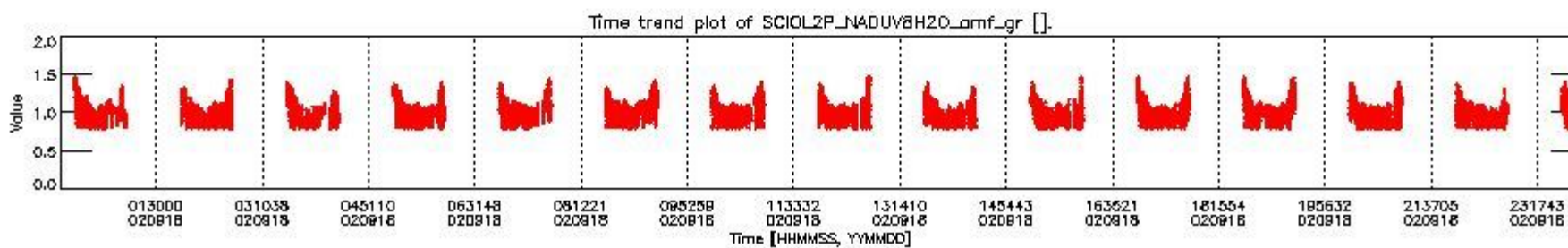
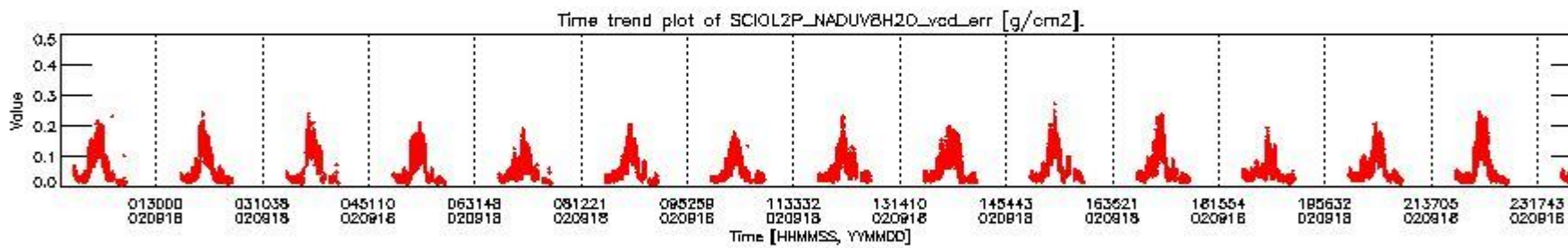
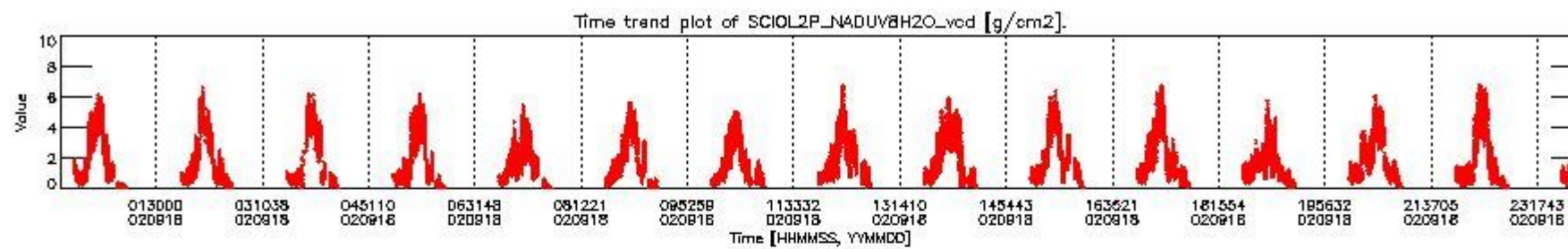
CIOL2P_NADUV60CL_slant_col_den for 18SEP2002 00:00:00 to 19SEP2002 00:00:00 np; CIOL2P_NADUV60CL_err_slant_col for 18SEP2002 00:00:00 to 19SEP2002 00:00:00 np



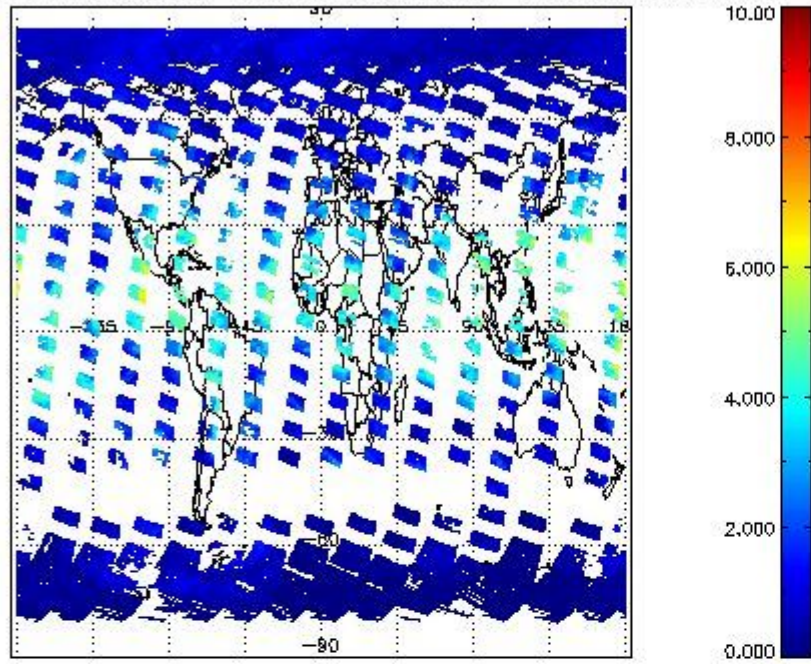
CIOL2P_NADUV60CL_slant_col_den for 18SEP2002 00:00:00 to 19SEP2002 00:00:00 sp | CIOL2P_NADUV60CL_err_slant_col for 18SEP2002 00:00:00 to 19SEP2002 00:00:00 sp



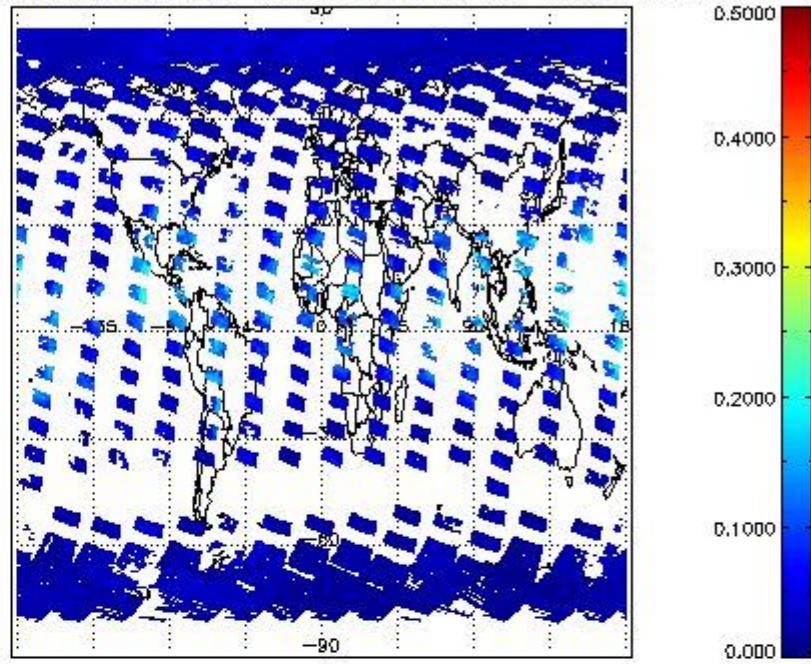
2.2.2.7 H2O (UV8)



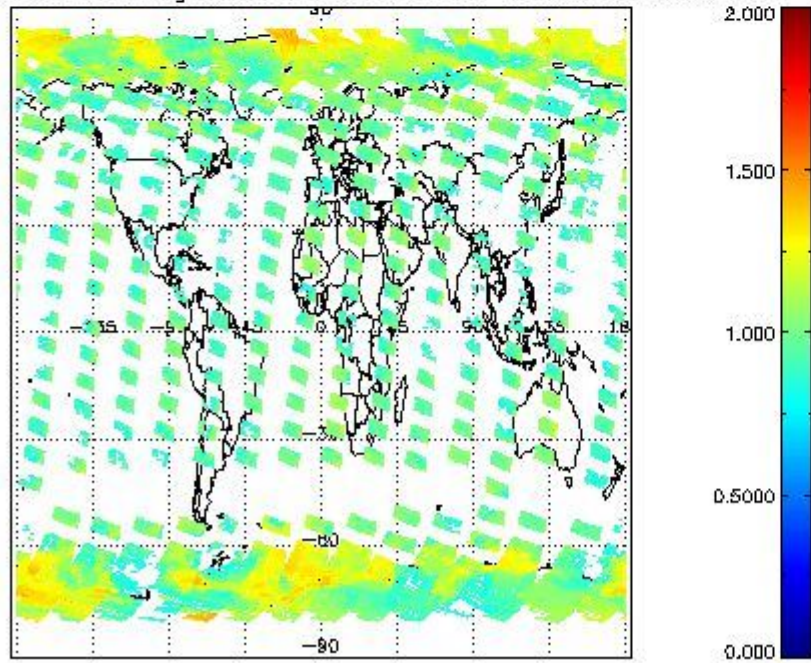
SCIOL2P_NADUV8H2O_vcd for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



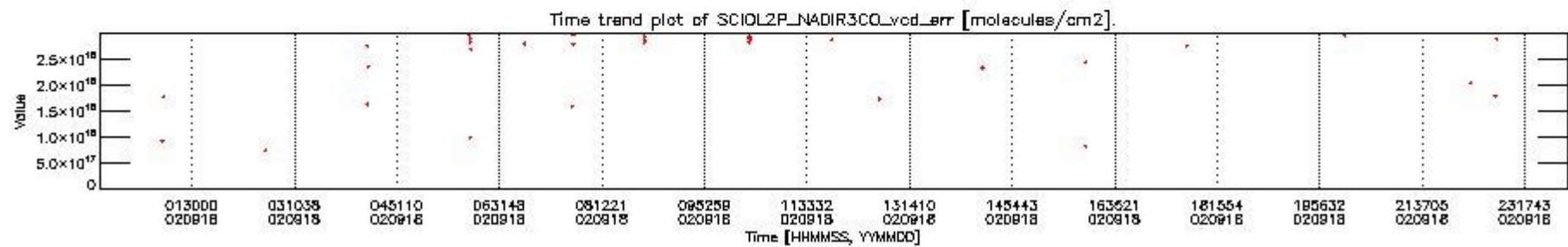
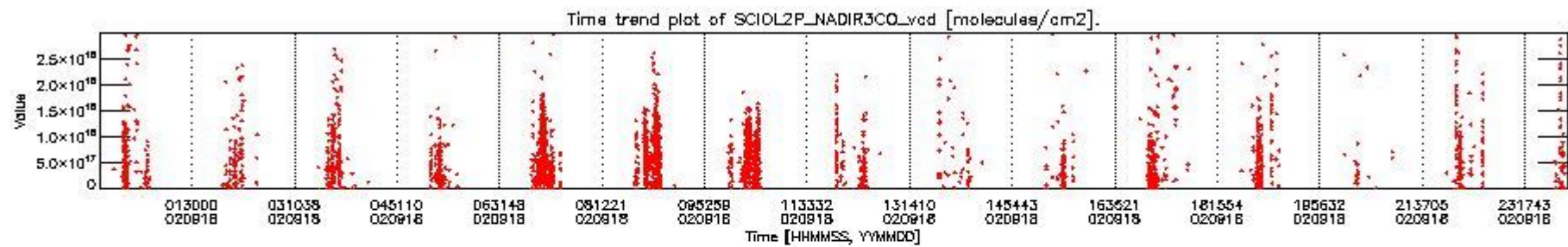
SCIOL2P_NADUV8H2O_vcd_err for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



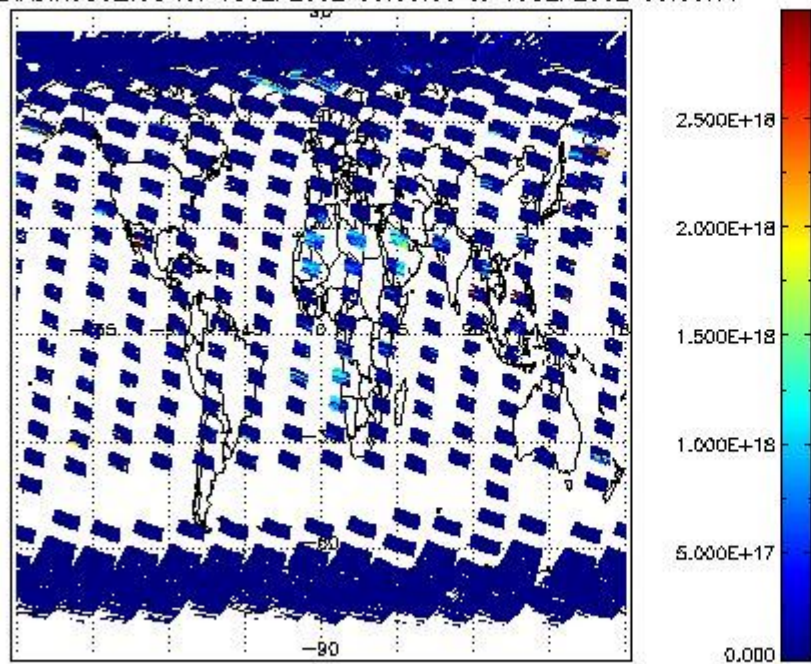
SCIOL2P_NADUV8H2O_arnf_gr for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



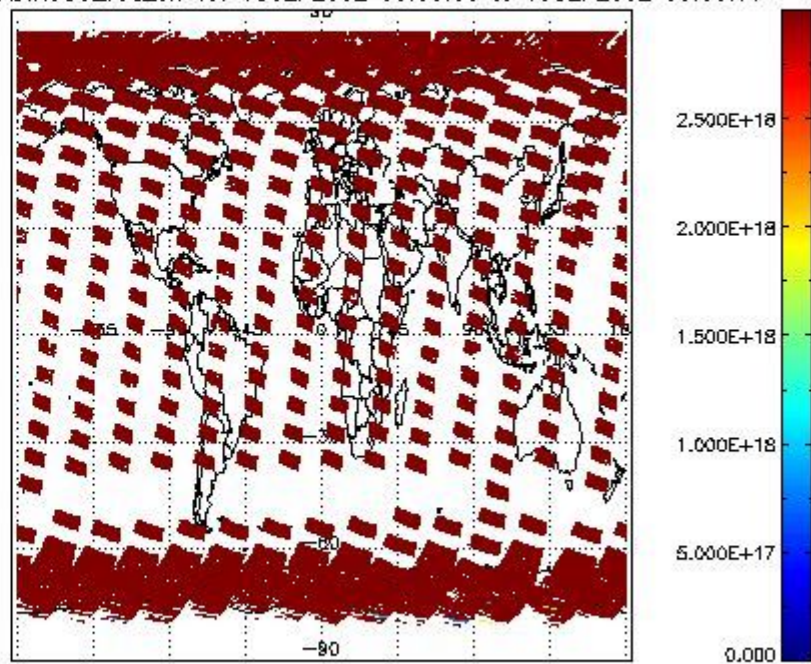
2.2.2.8 CO (IR3)



SCIO2P_NADIR3CO_vcd for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



SCIO2P_NADIR3CO_vcd_err for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



2.2.3 Limb

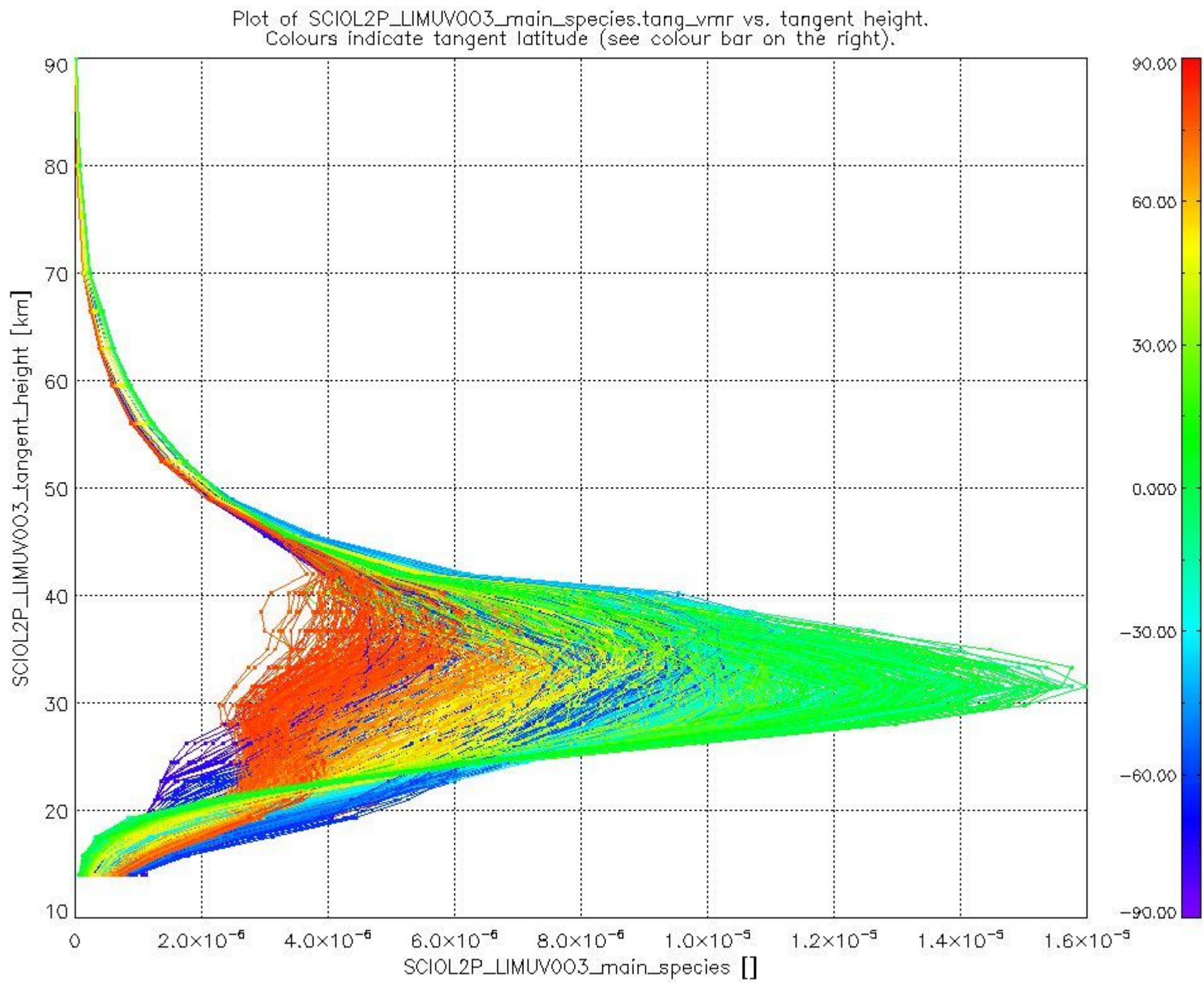
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

The following data items are currently included into this section:

Number	Data item ID
0	SCIO2P_LIMUV003_main_species
1	SCIO2P_LIMUV1NO2_main_species
2	SCIO2P_LIMUV3BRO_main_species

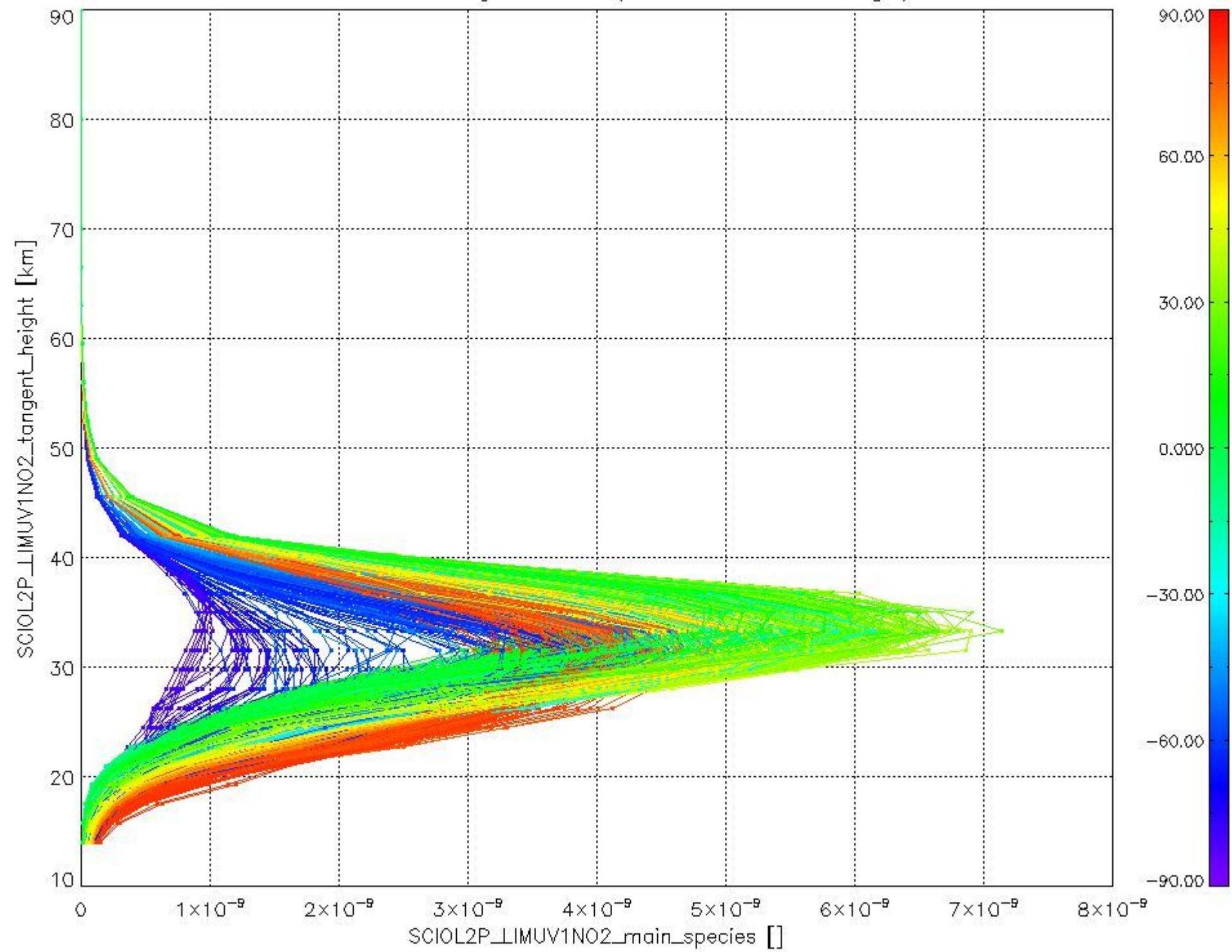
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



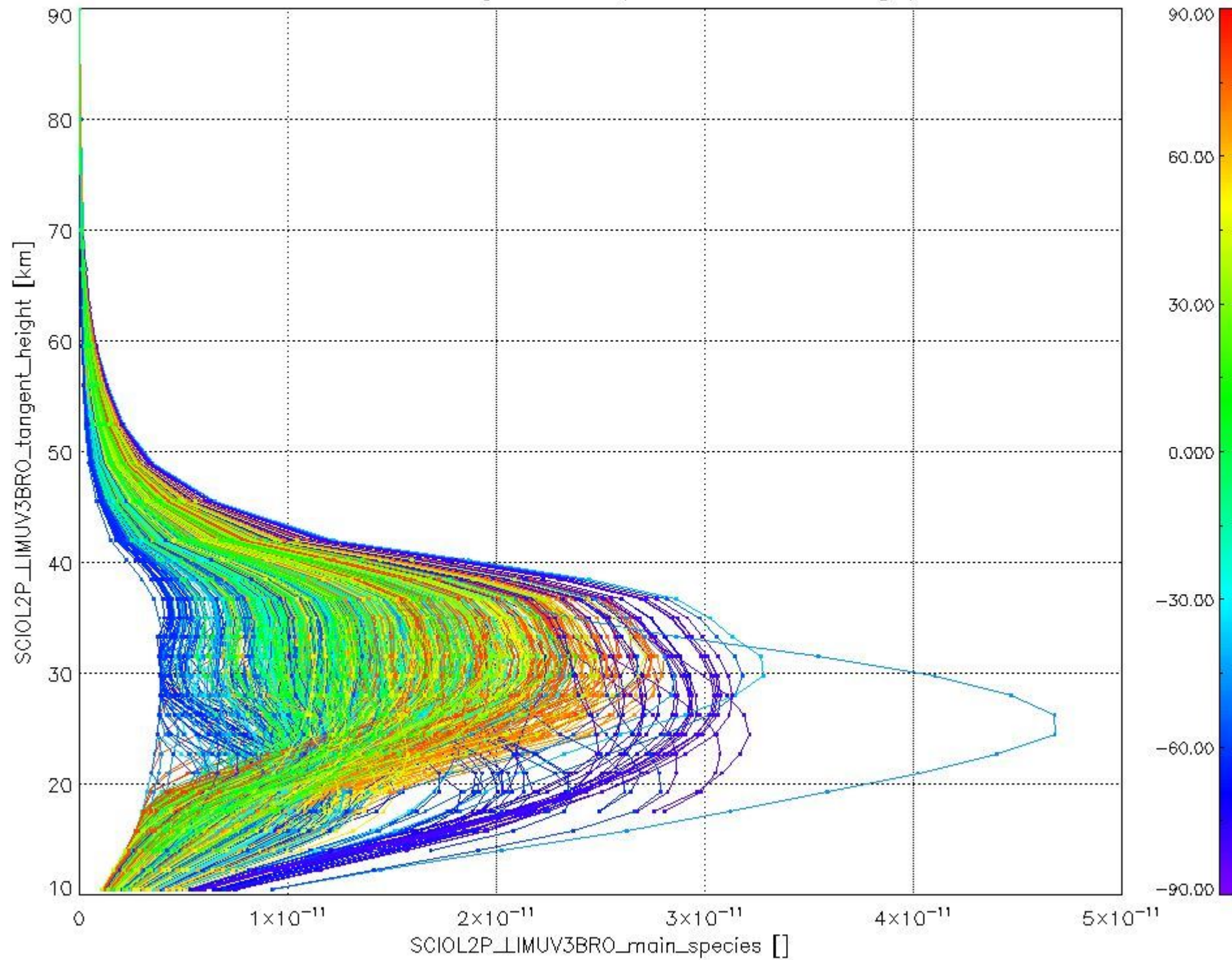
2.2.3.2 NO2 (UV1)

Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



2.2.3.3 BrO (UV3)

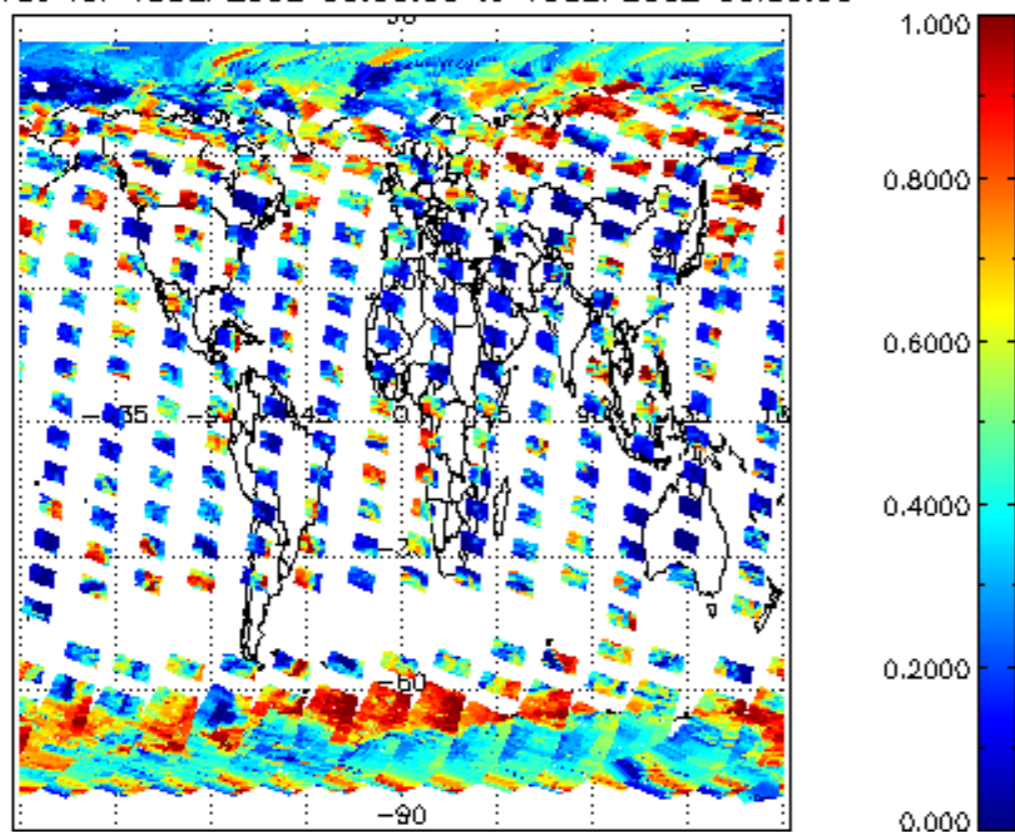
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



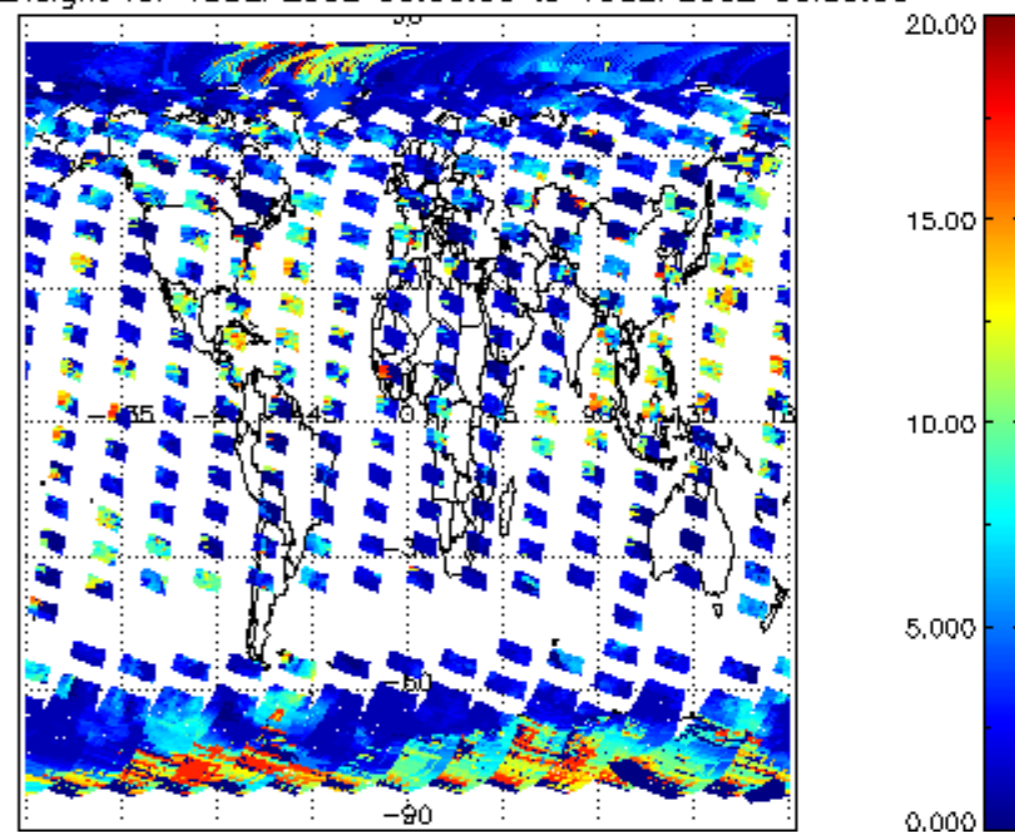
2.3 ADF monitoring

Number	ADF
	IN_ (INITIALISATION_FILE)
0	SCI_IN_AXNPDE20110201_120000_20020301_000000_20991231_235959
	ECF (ECMWF_FILE)
1	NOT USED
	MF1 (M_FACTOR_FILE)
2	SCI_MF1_AXNIEC20100218_134452_20020917_165618_20020919_165618
3	SCI_MF1_AXNIEC20100218_134554_20020918_162441_20020920_162441

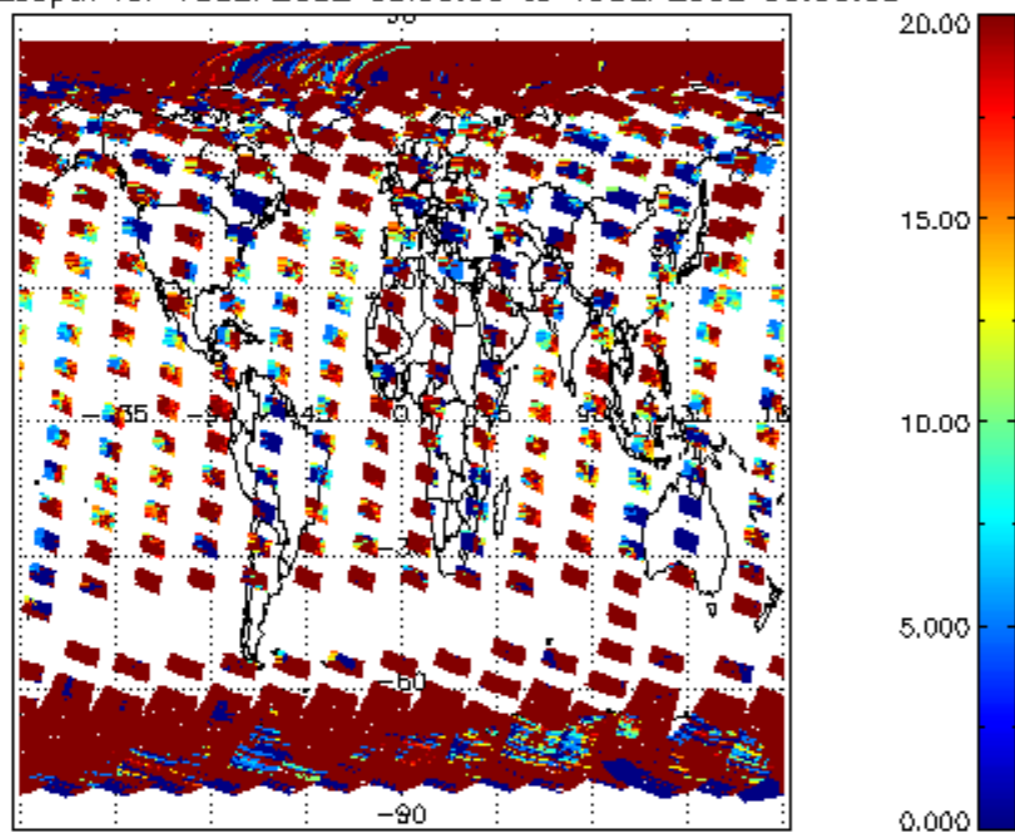
cl_frac for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



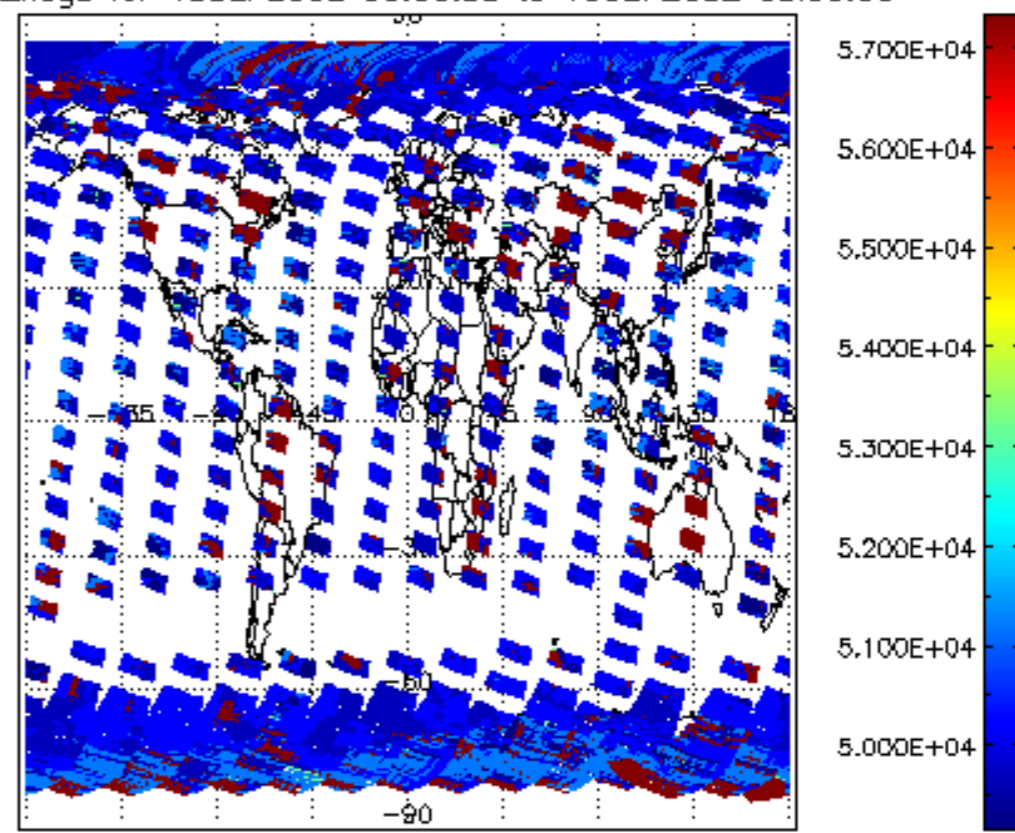
cl_top_height for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

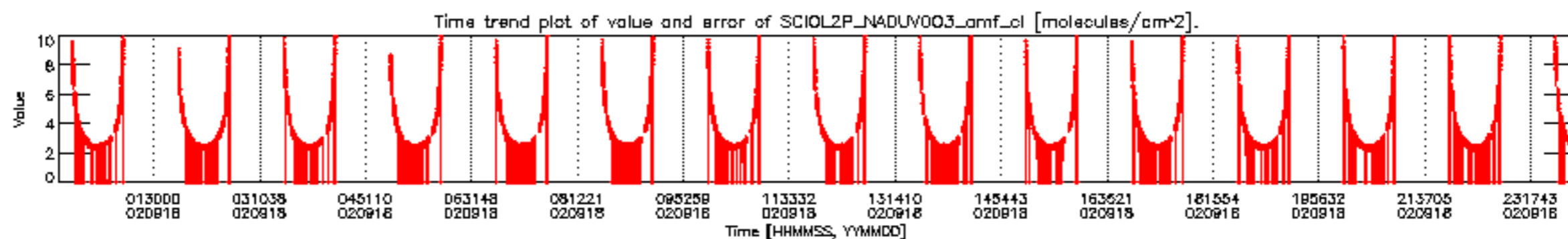
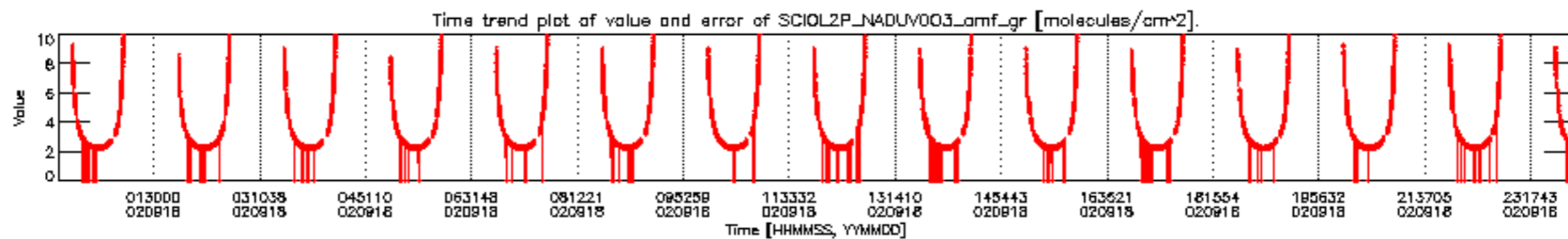
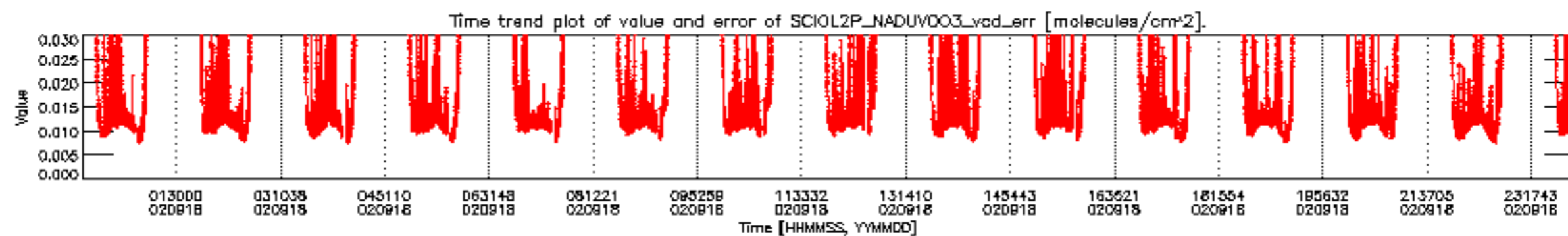
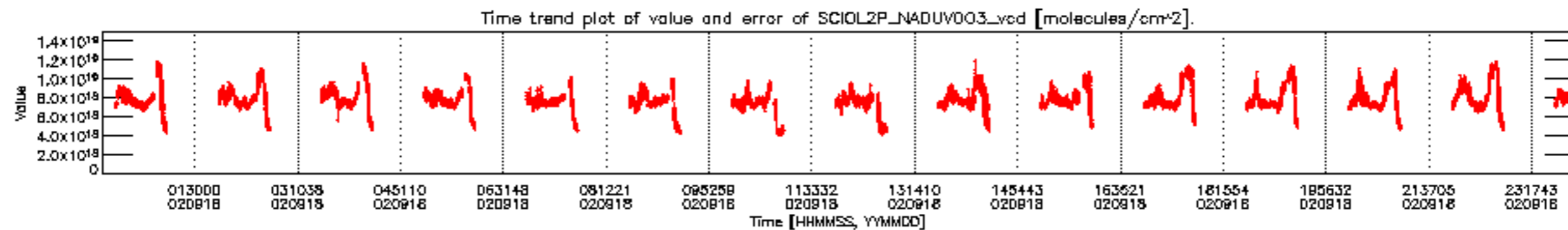


cl_opt_depth for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

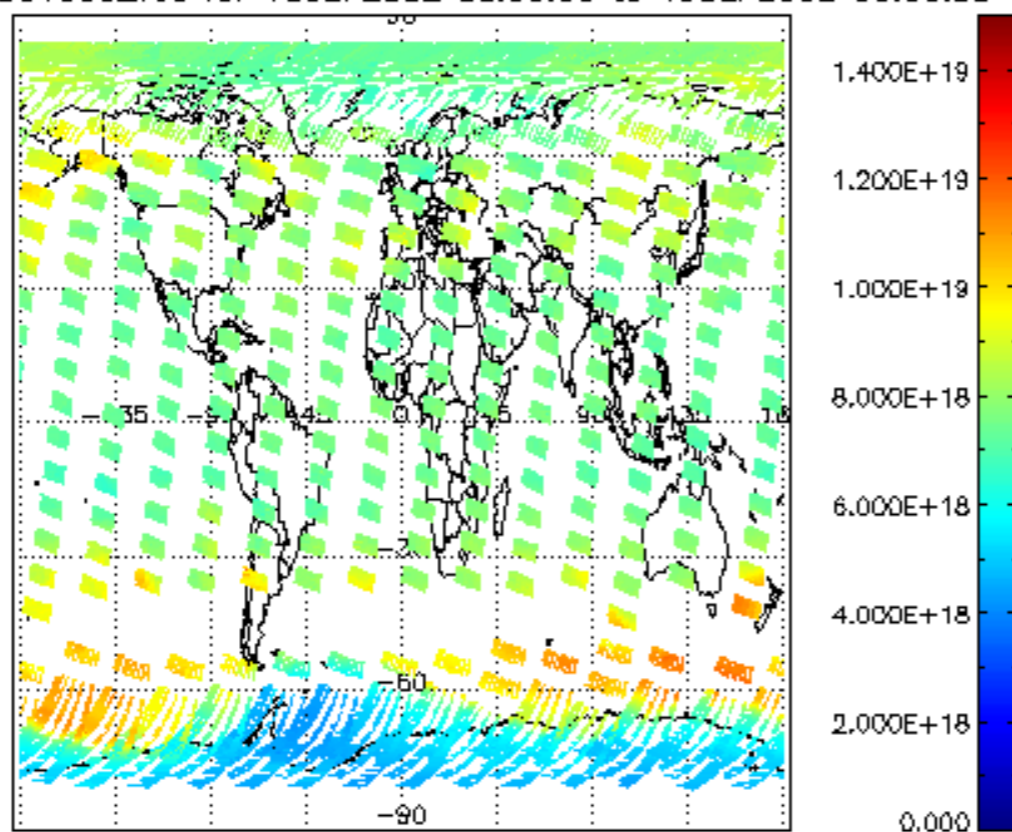


cloud_flags for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

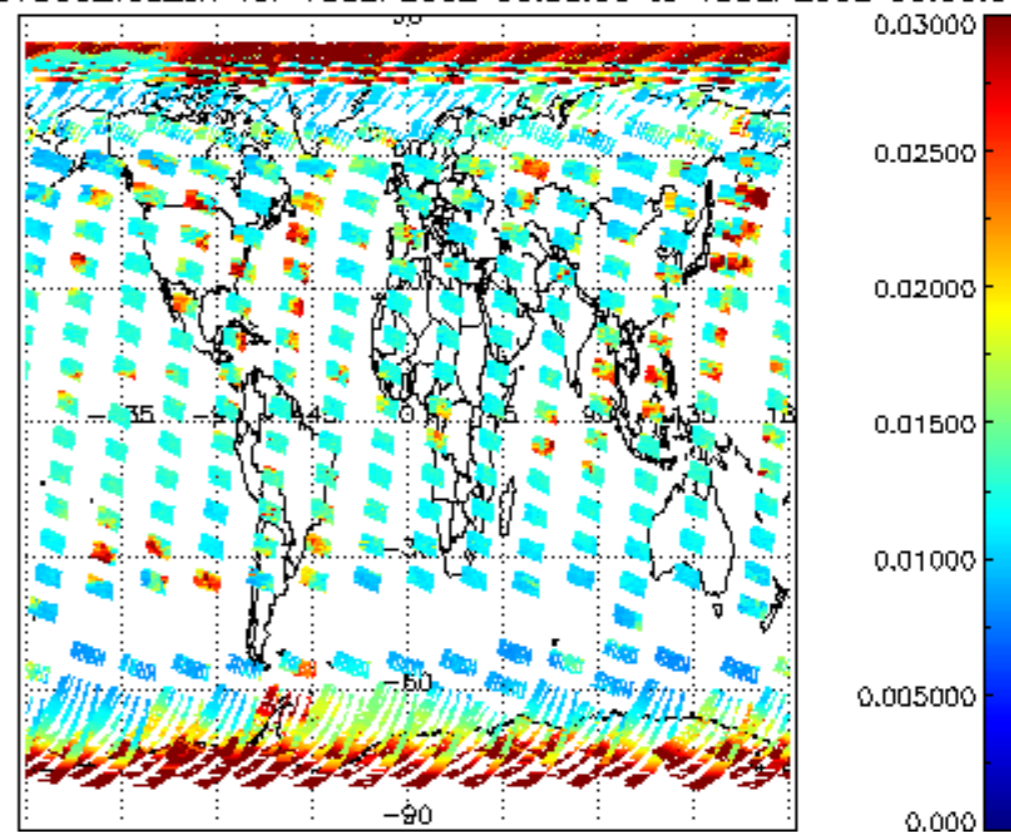




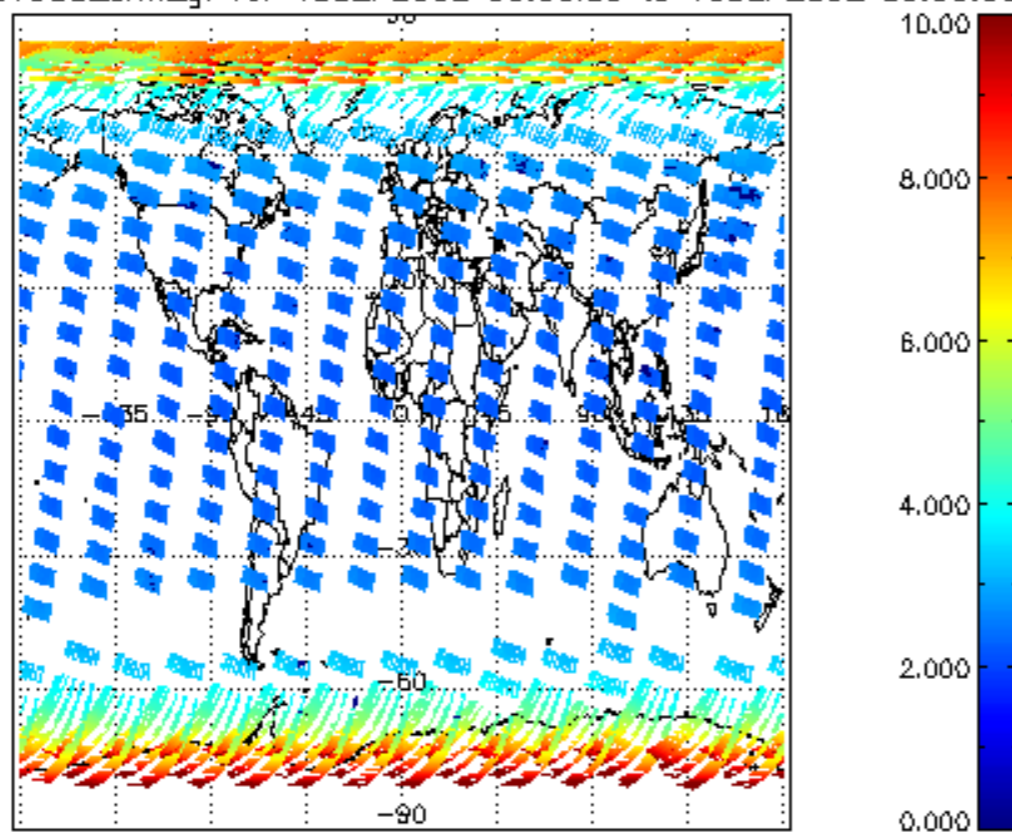
SCIOL2P_NADUV003_vcd for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



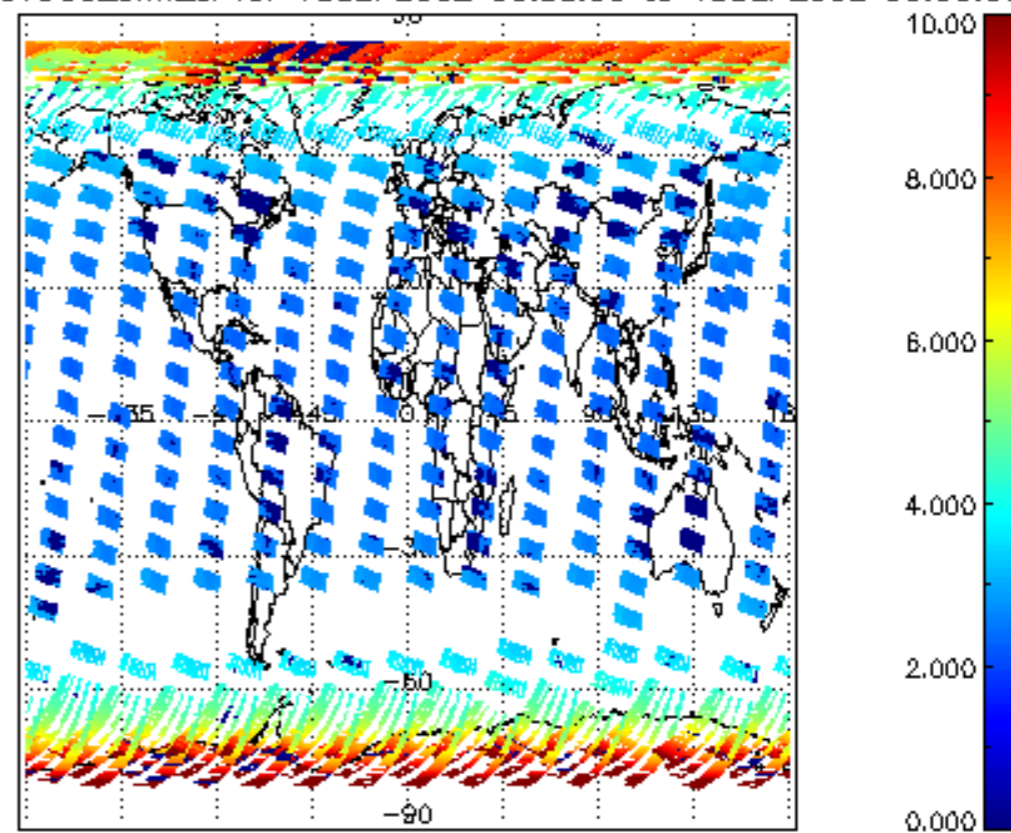
SCIOL2P_NADUV003_vcd_err for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

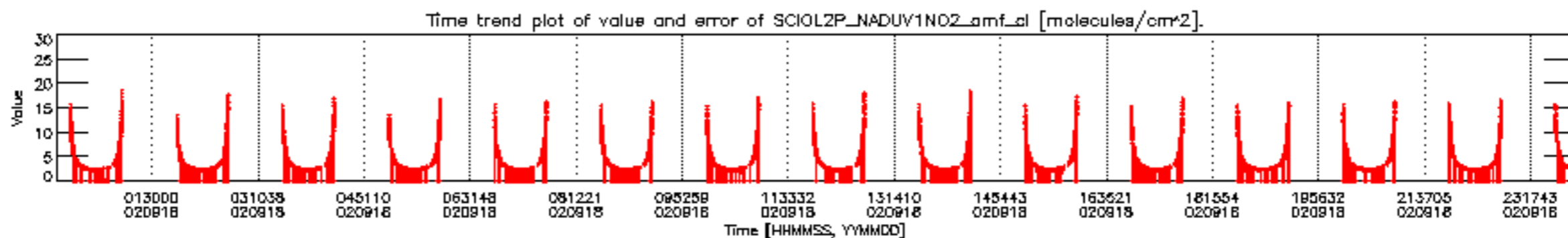
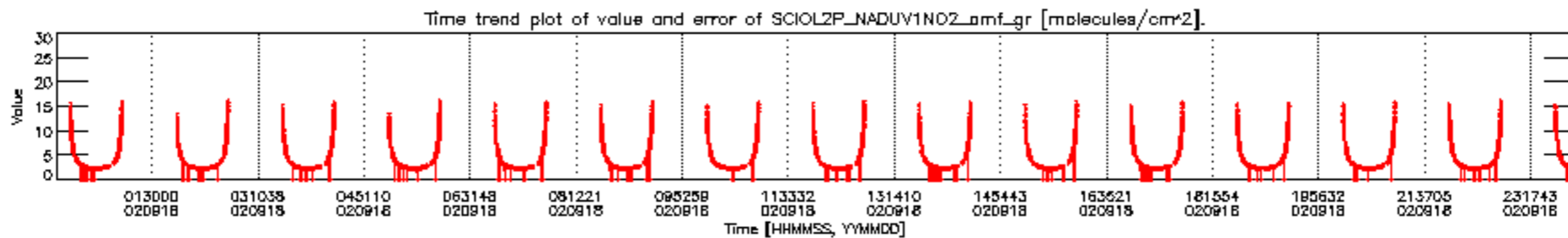
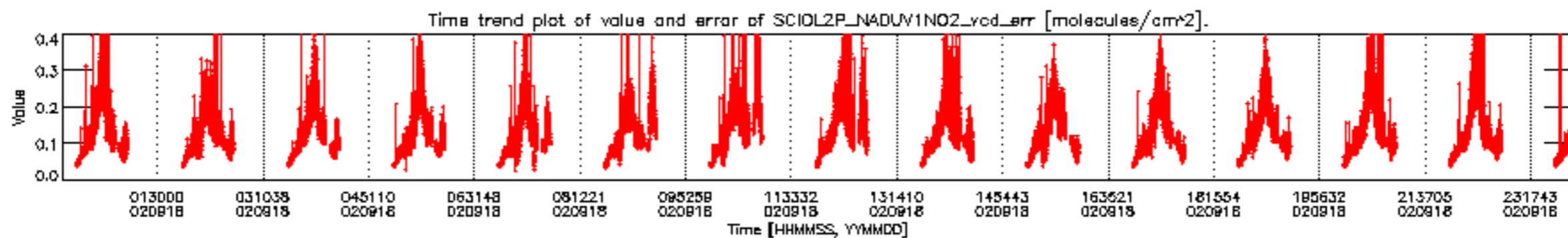
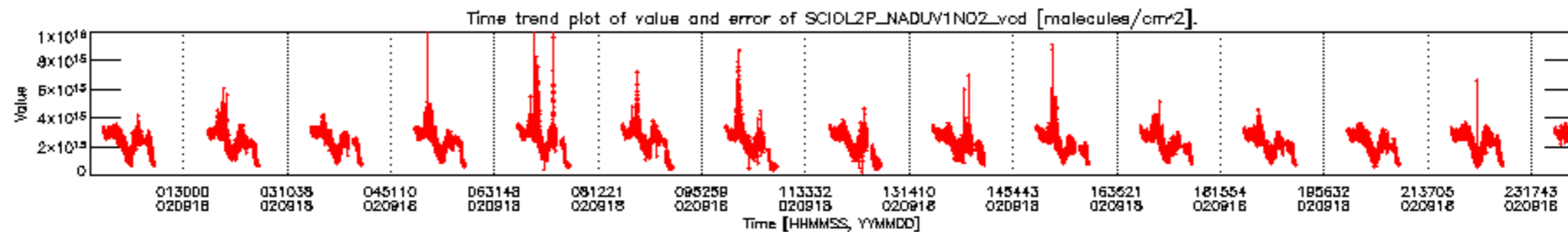


SCIOL2P_NADUV003_amf_gr for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

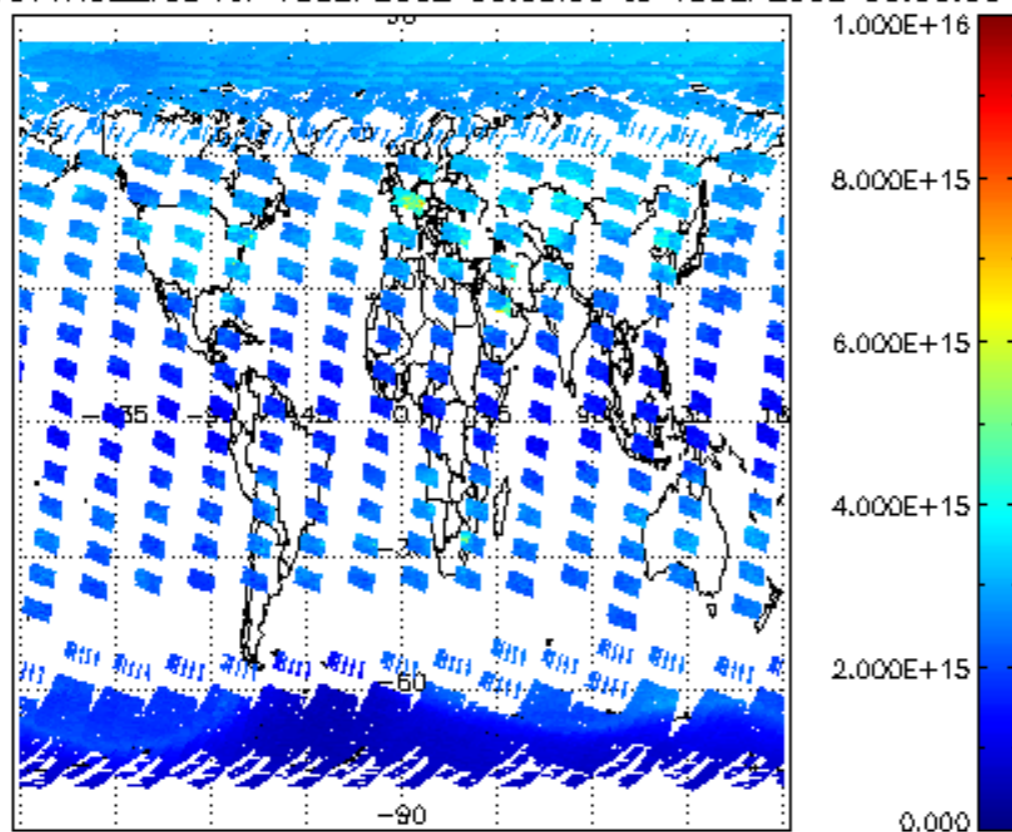


SCIOL2P_NADUV003_amf_cl for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

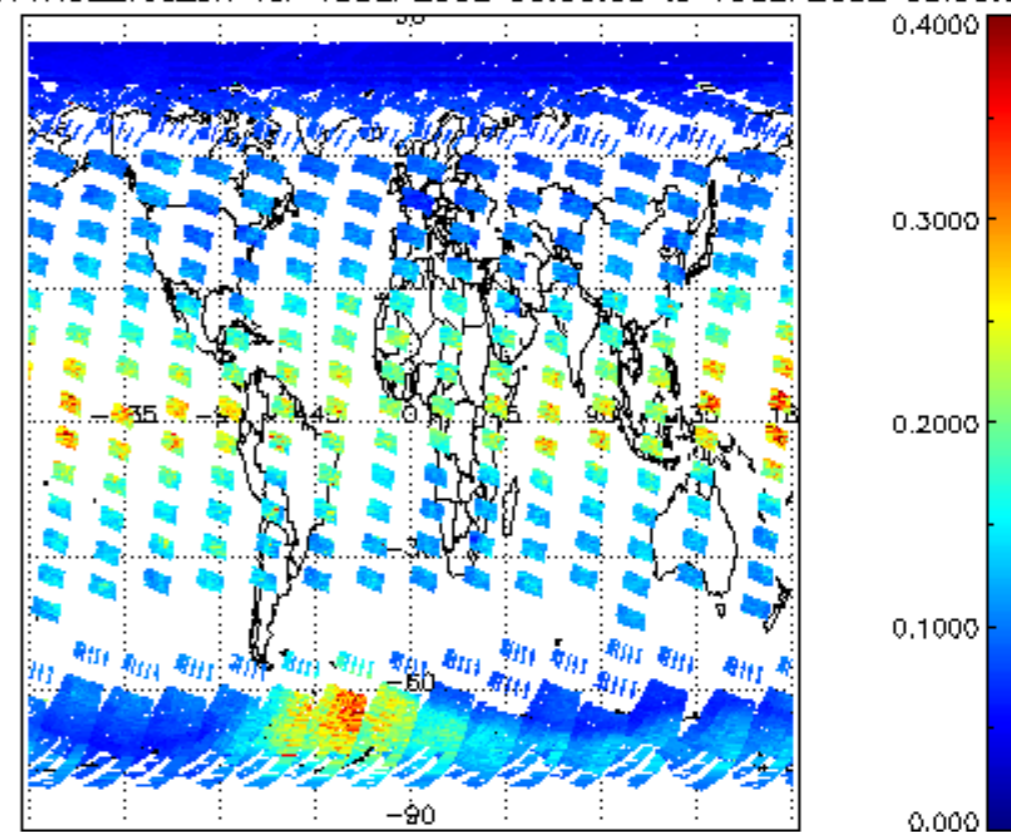




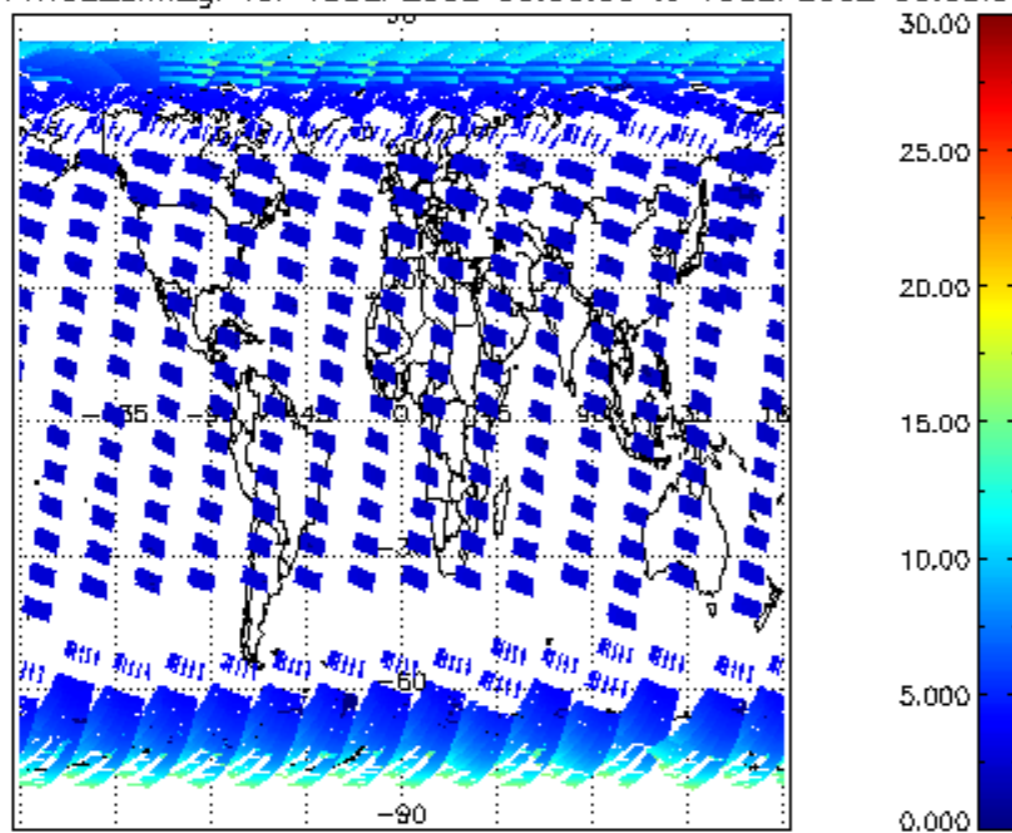
SCIOL2P_NADUV1NO2_vcd for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



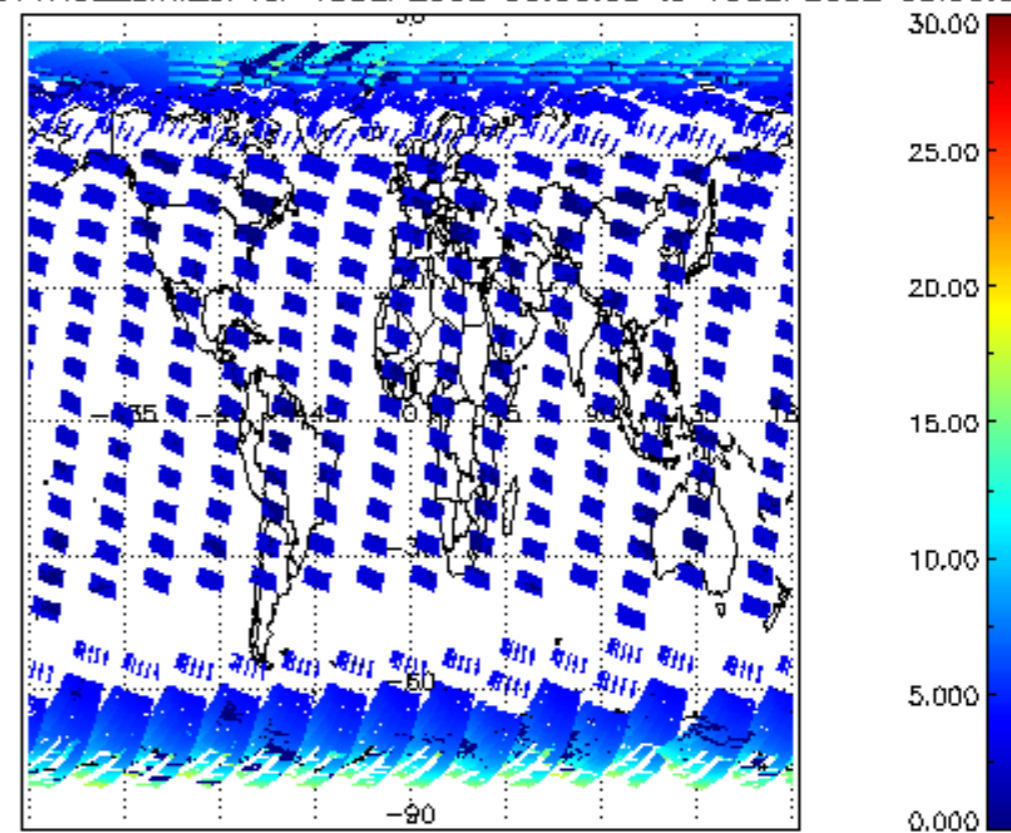
iCIOL2P_NADUV1NO2_vcd_err for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



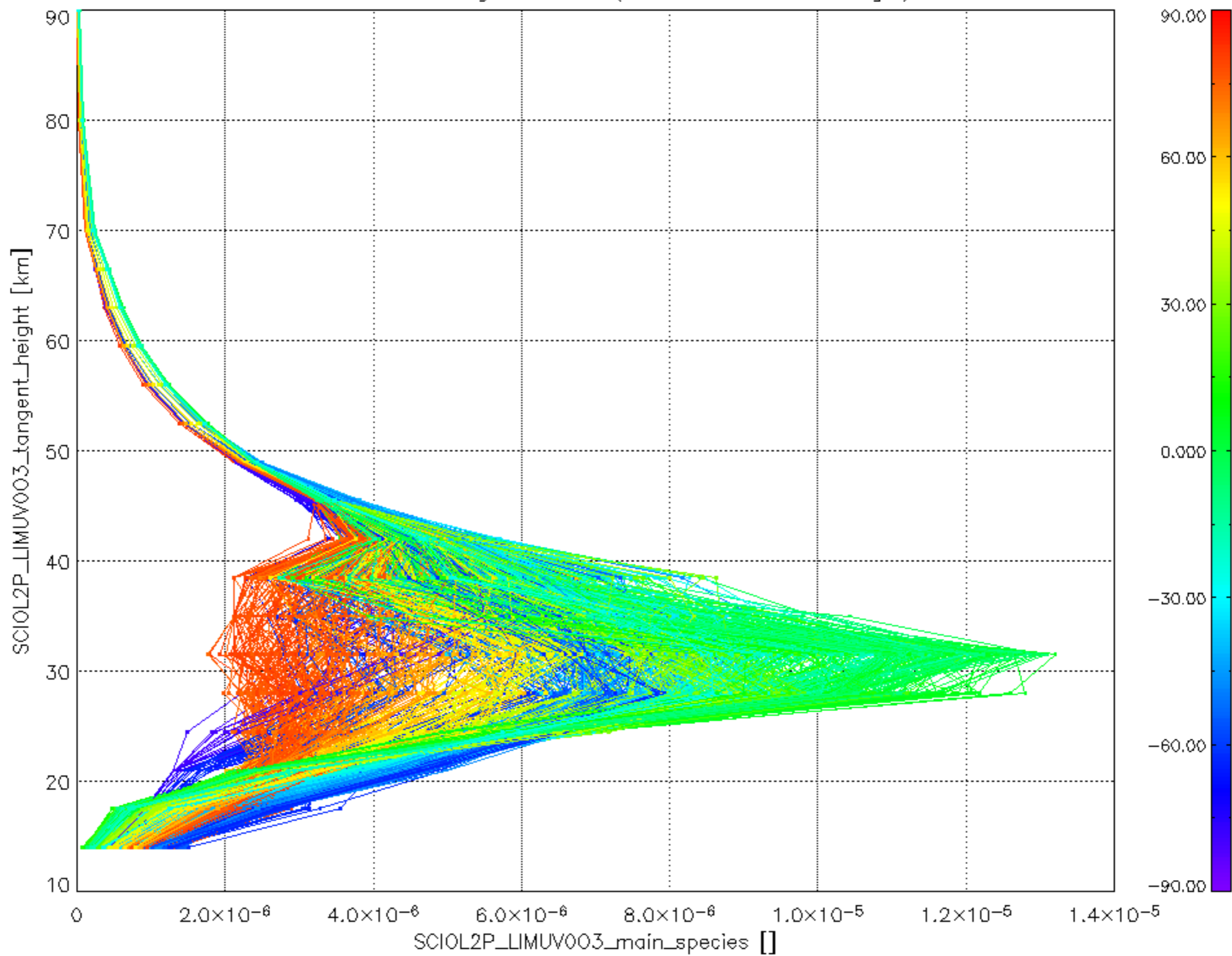
iCIOL2P_NADUV1NO2_amf_gr for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



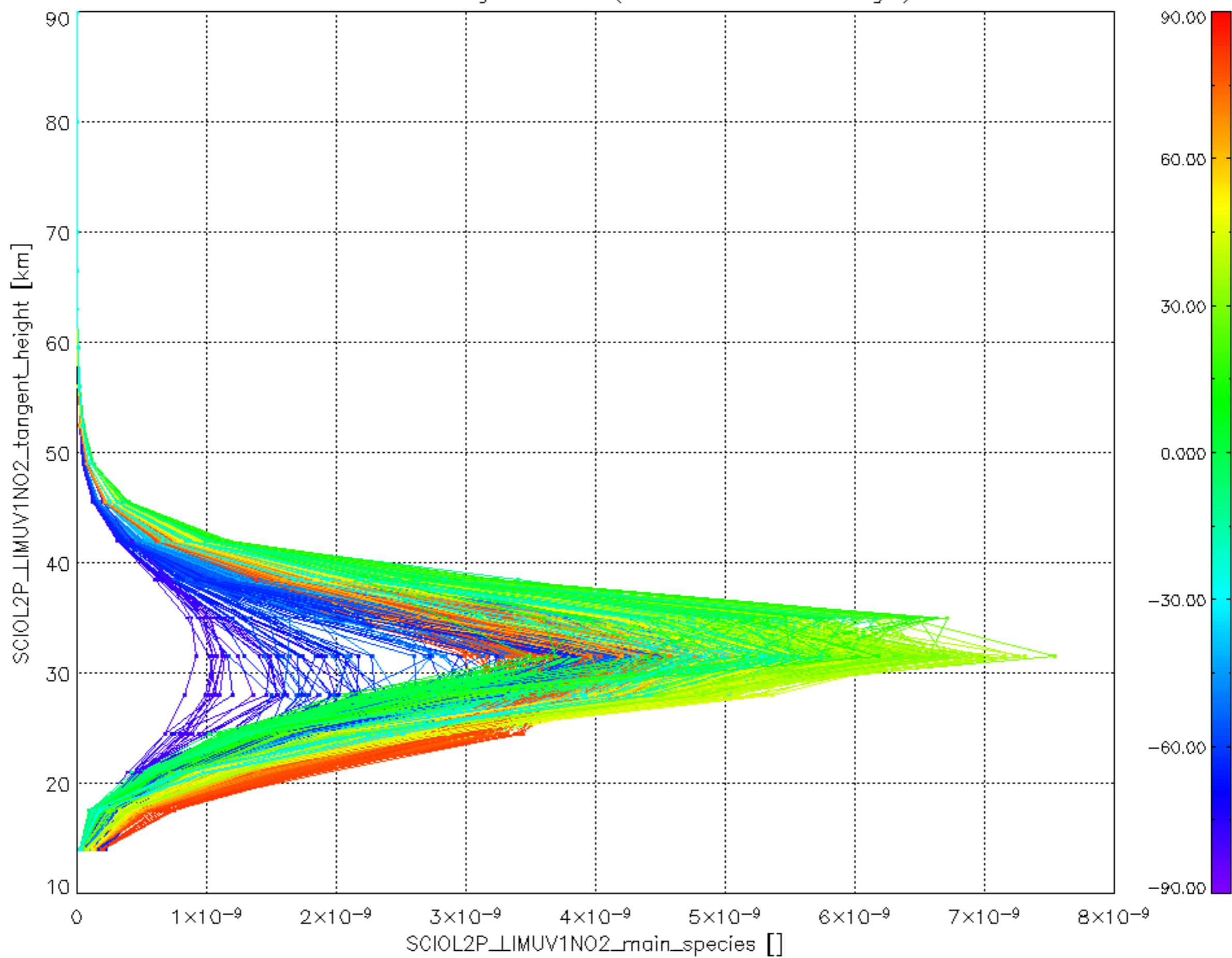
iCIOL2P_NADUV1NO2_amf_cl for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



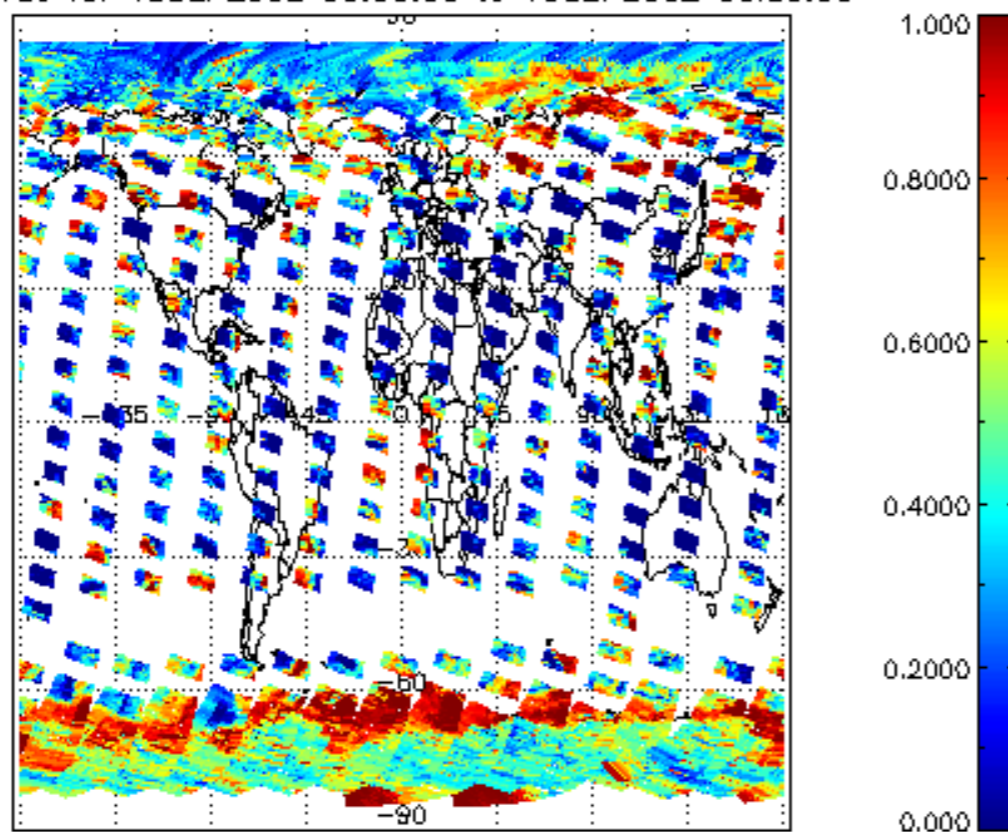
Plot of SCIOL2P_LIMUV003_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



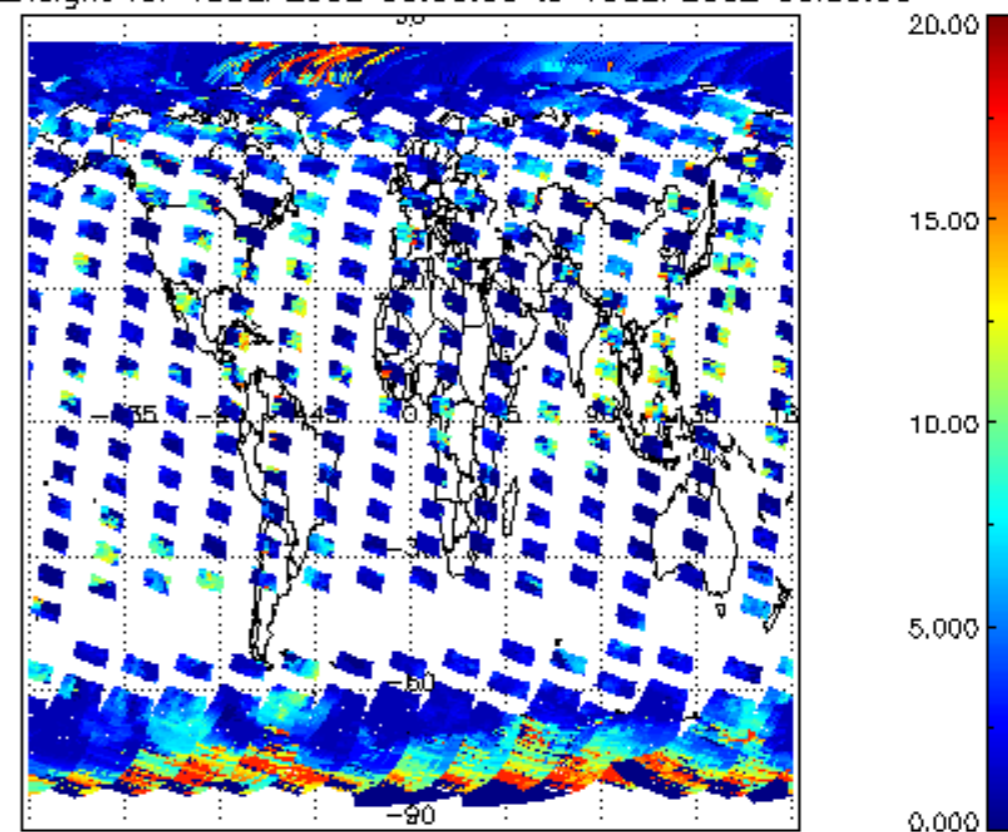
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



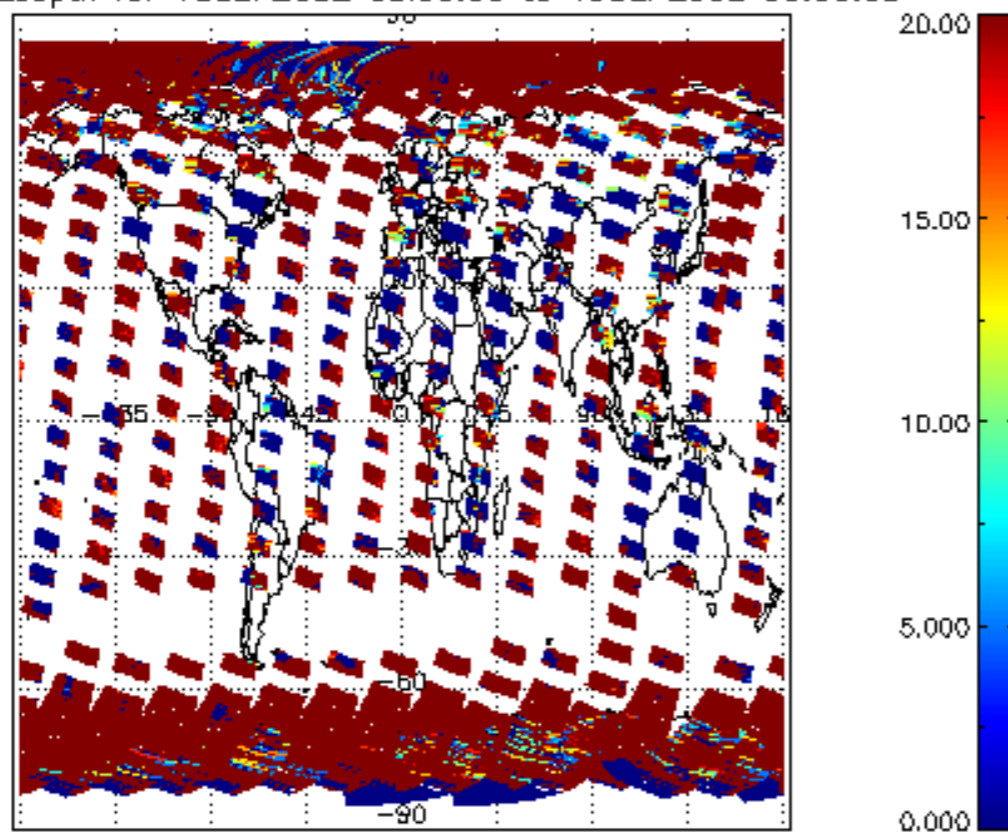
cl_frac for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



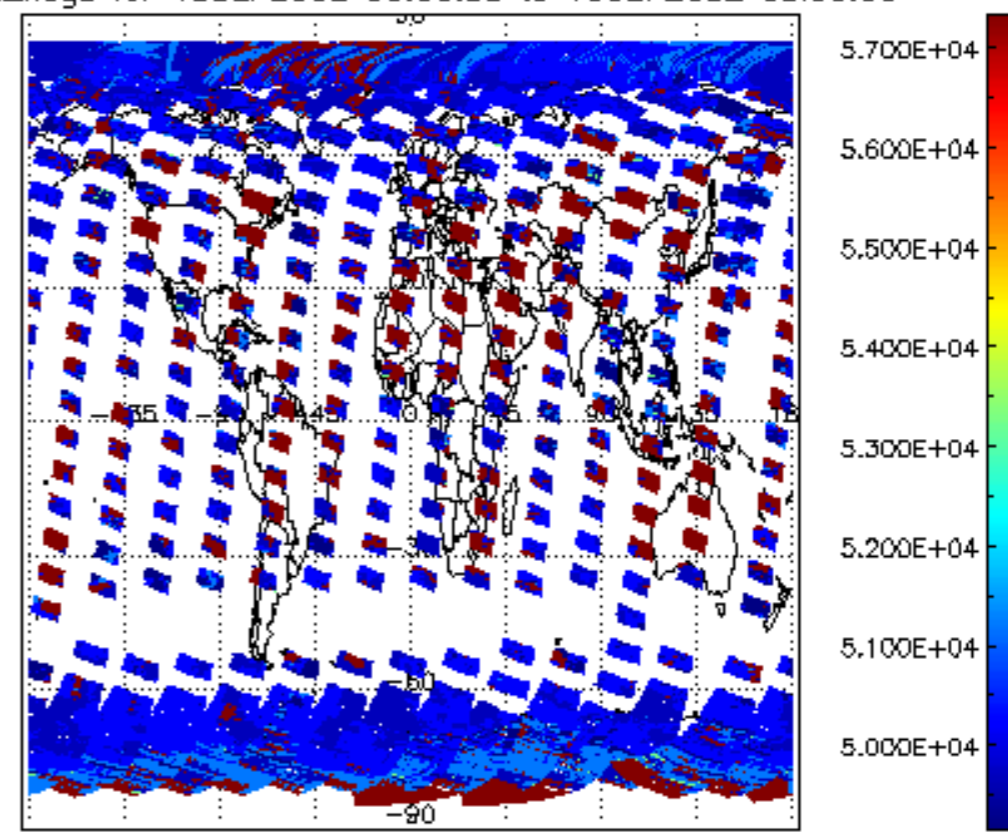
cl_top_height for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

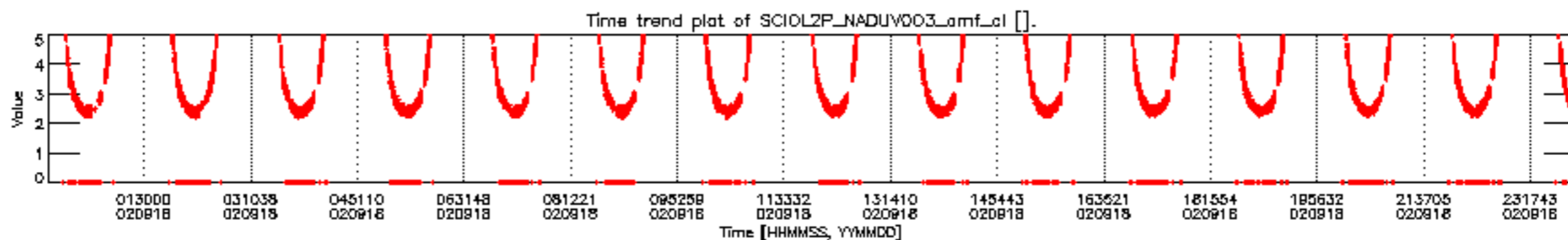
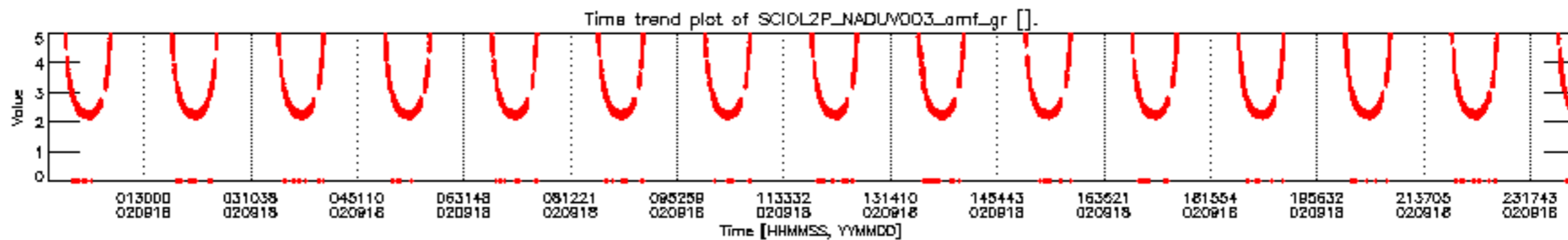
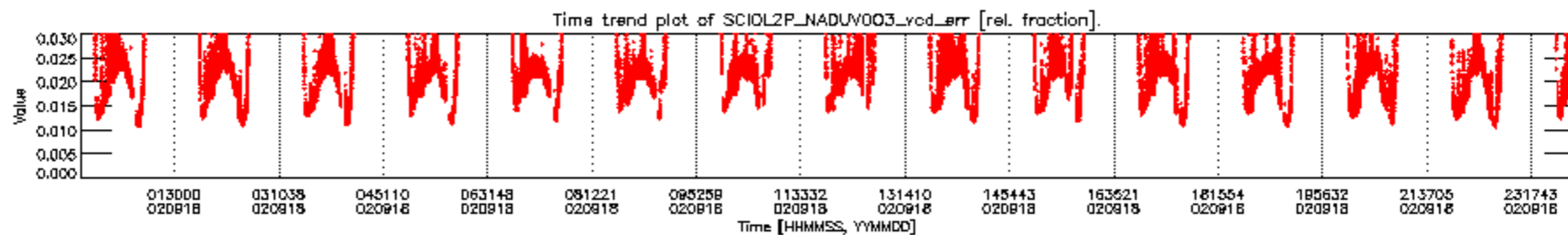
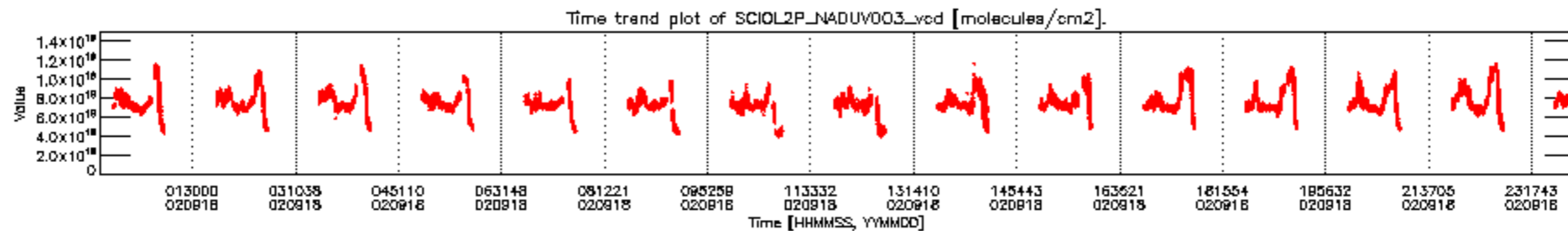


cl_opt_depth for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

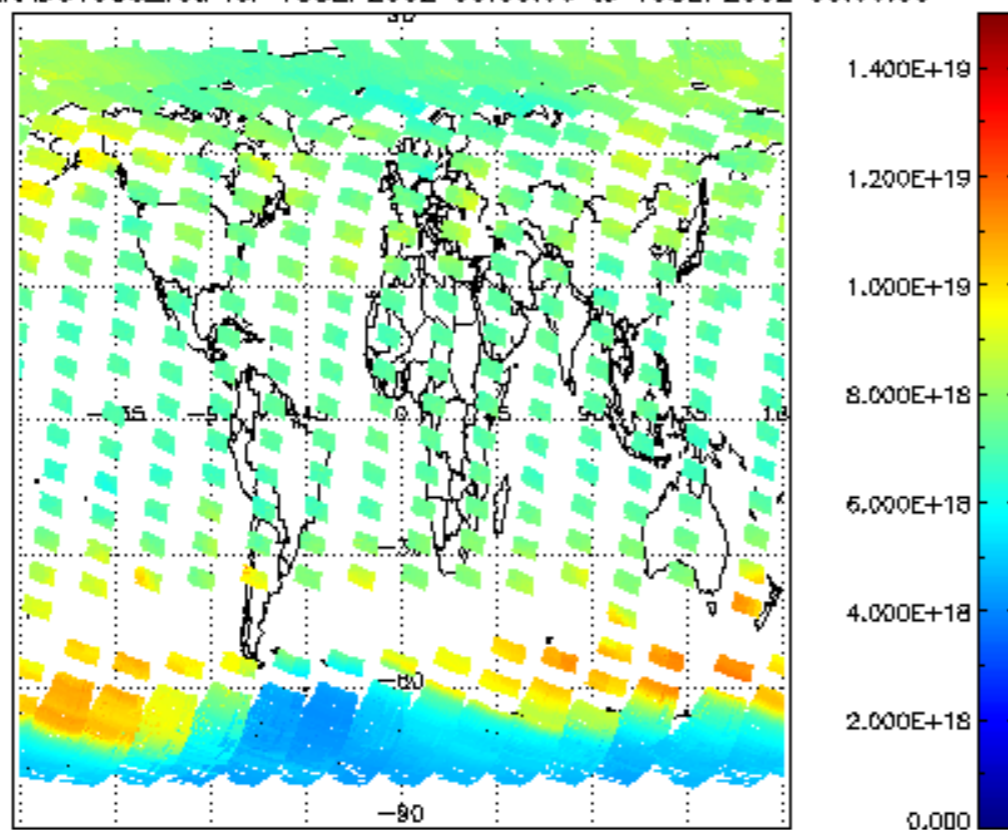


cloud_flags for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

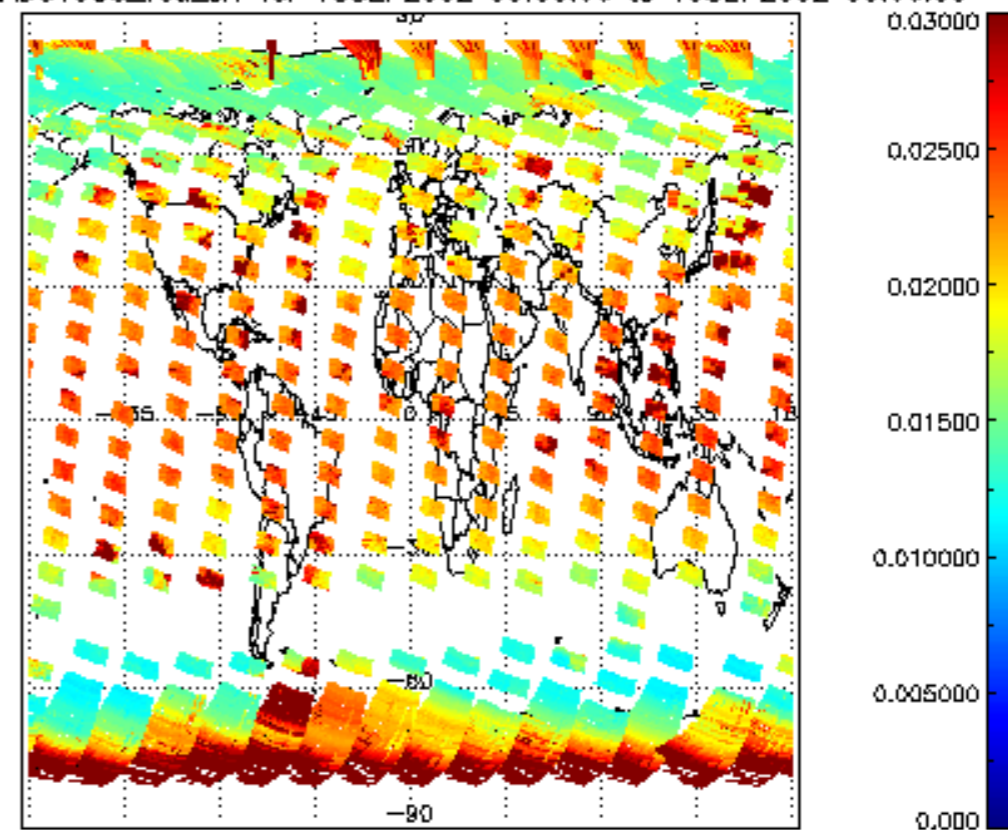




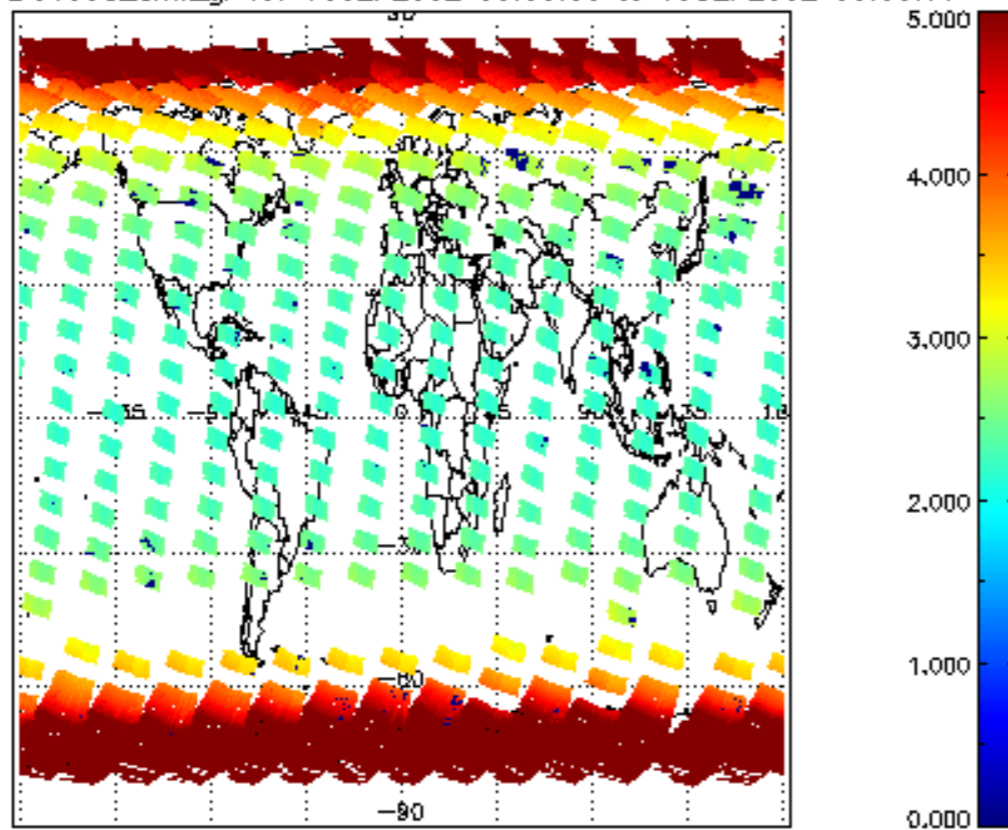
SCIOL2P_NADUV003_vcd for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



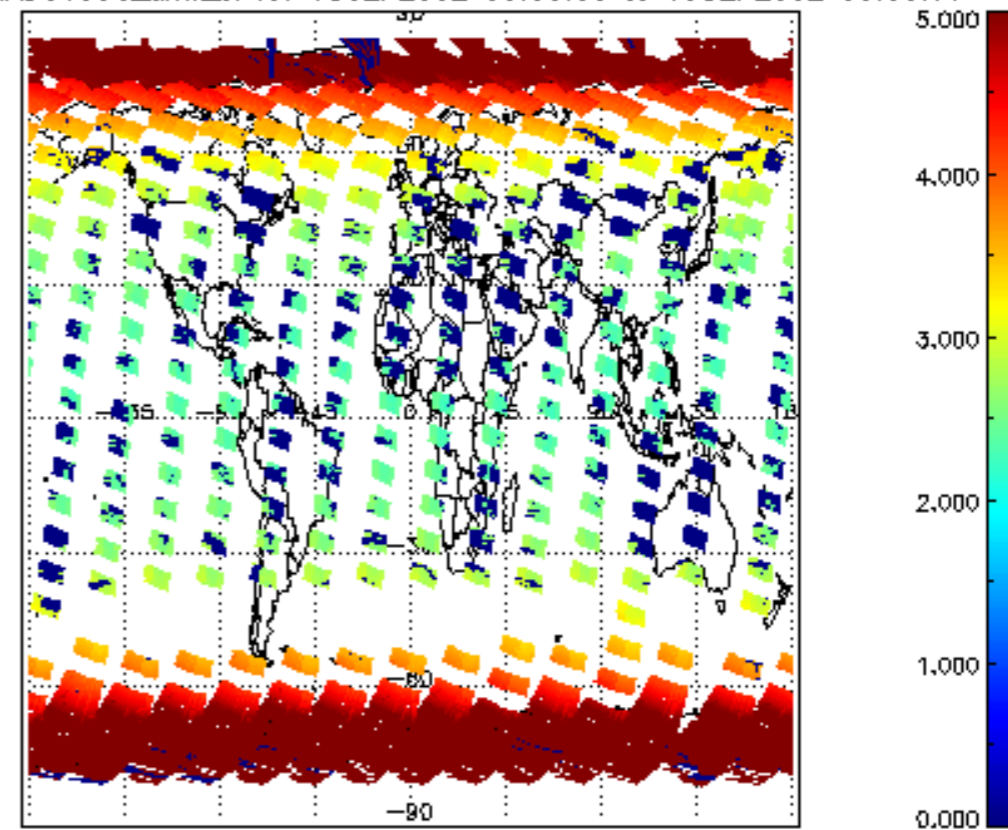
SCIOL2P_NADUV003_vcd_err for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

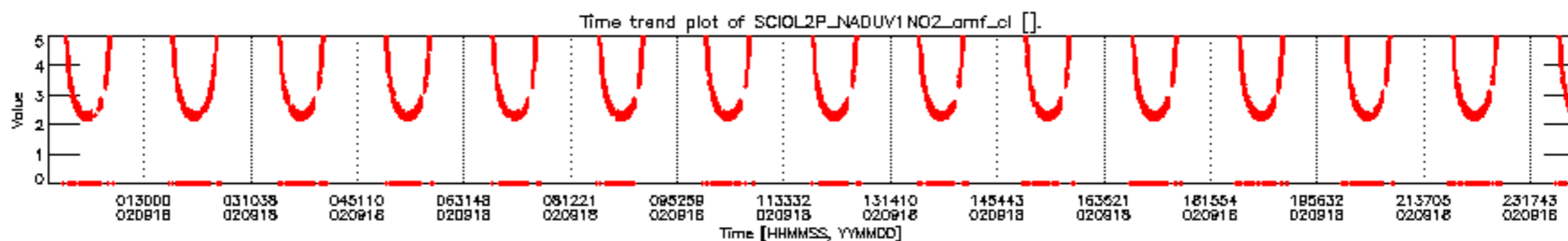
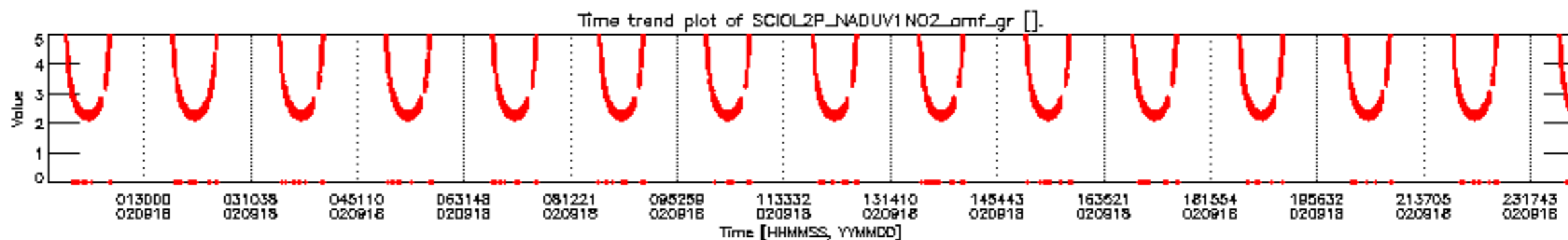
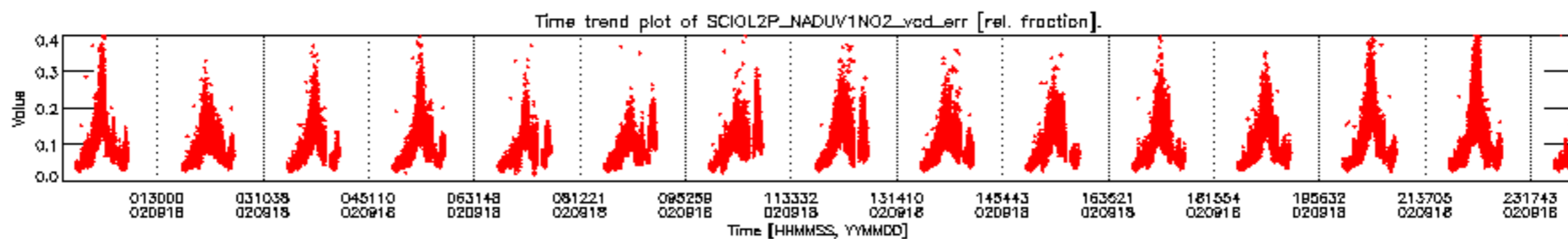
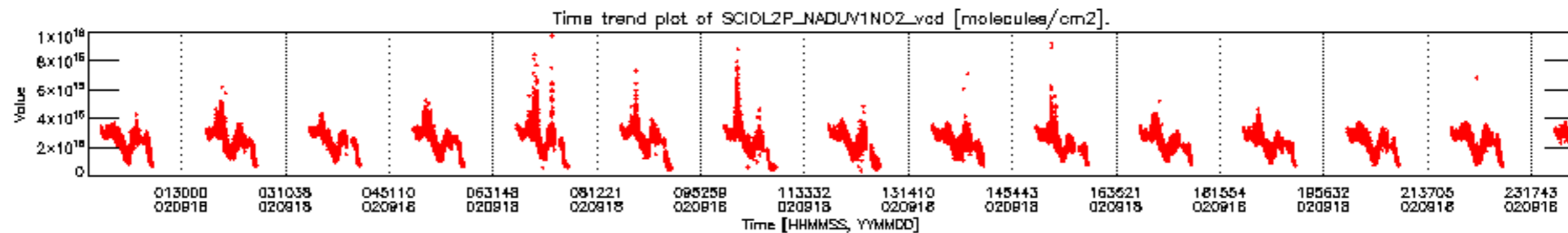


SCIOL2P_NADUV003_amf_gr for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

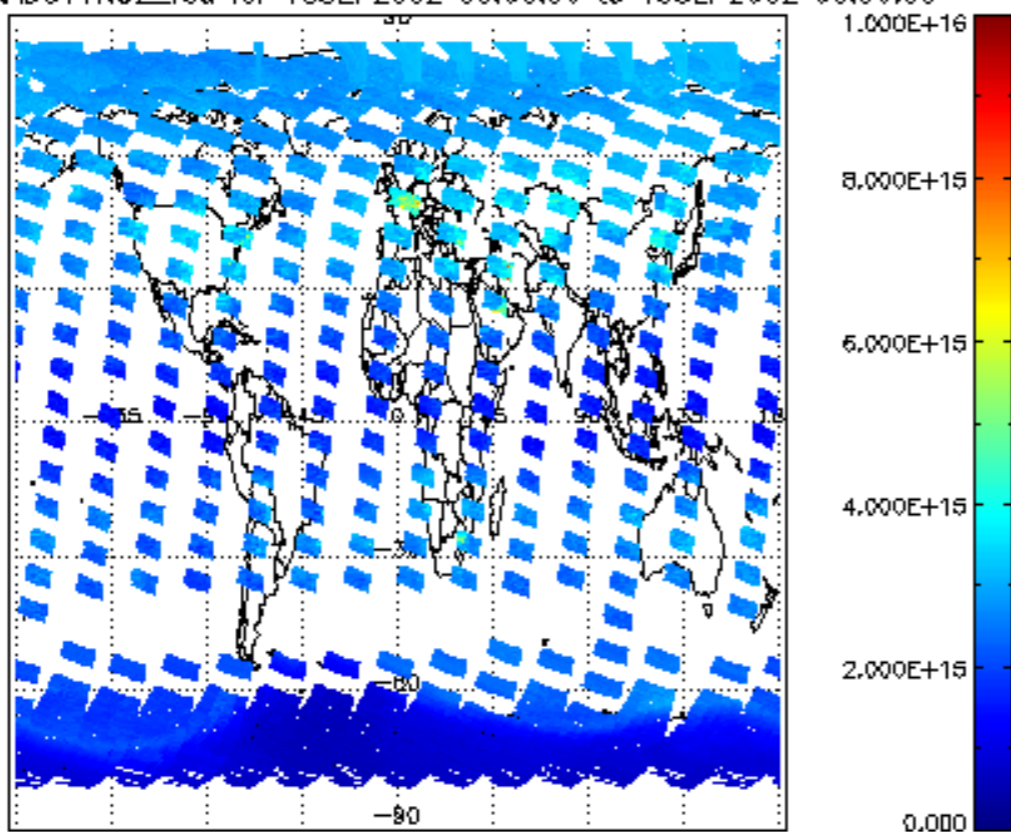


SCIOL2P_NADUV003_amf_cl for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

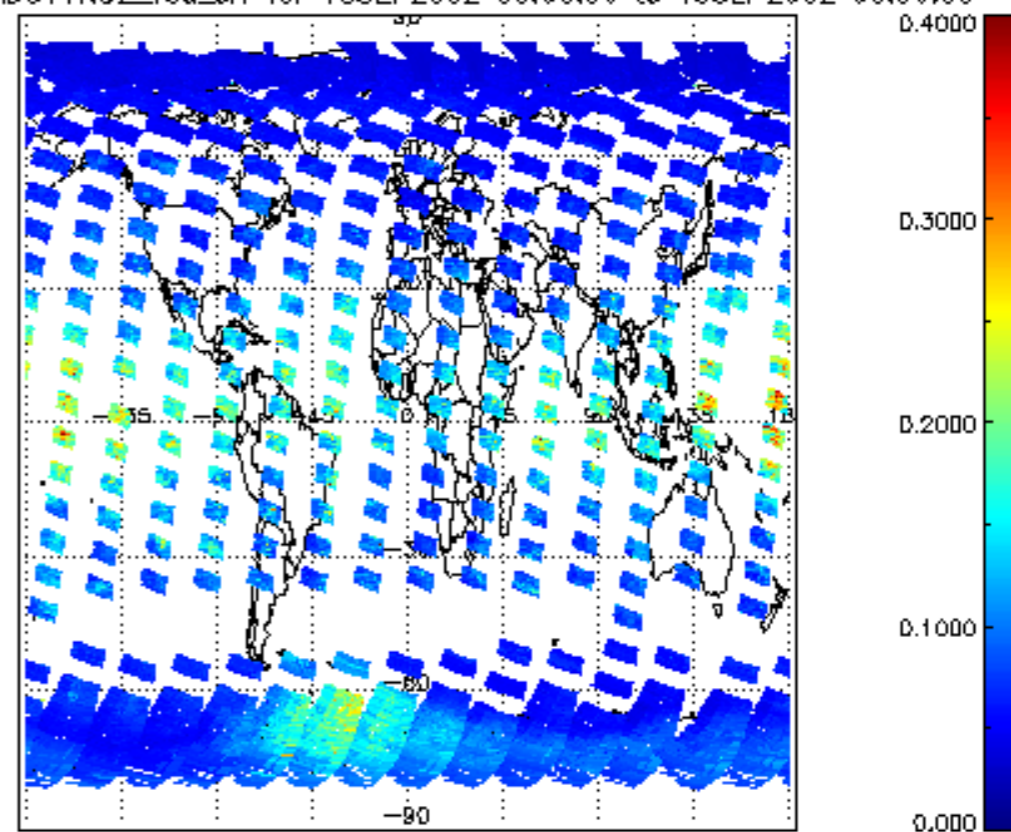




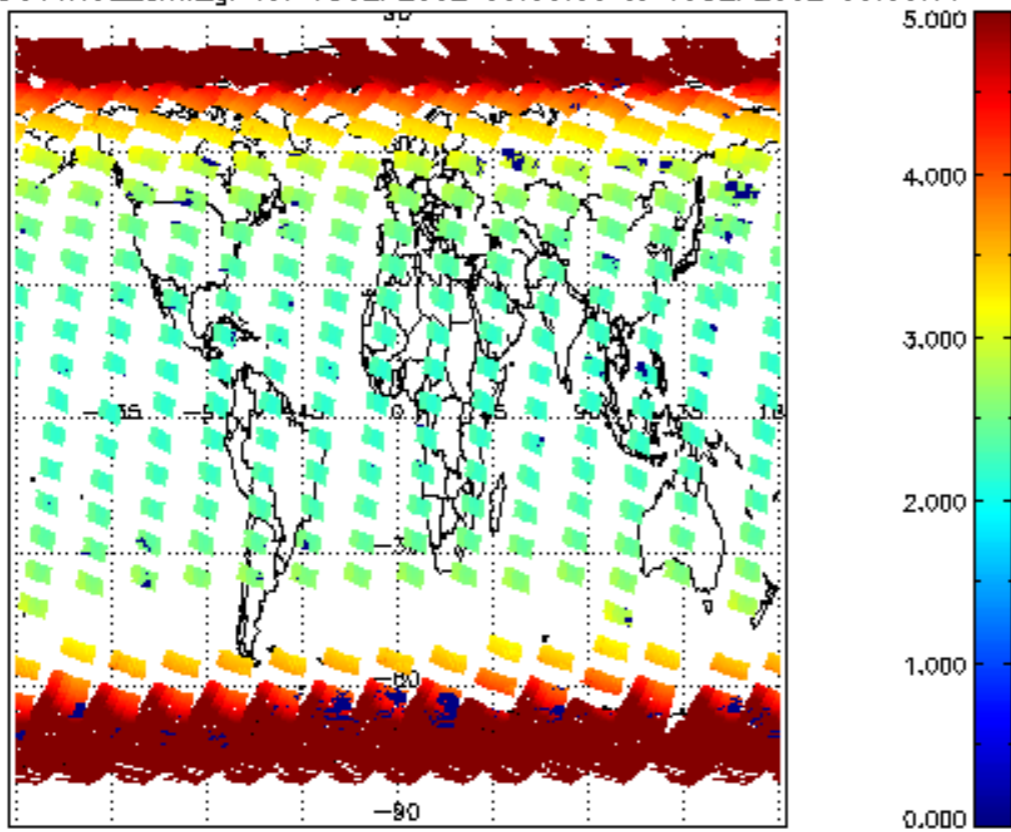
SCIOL2P_NADUV1N02_vcd for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



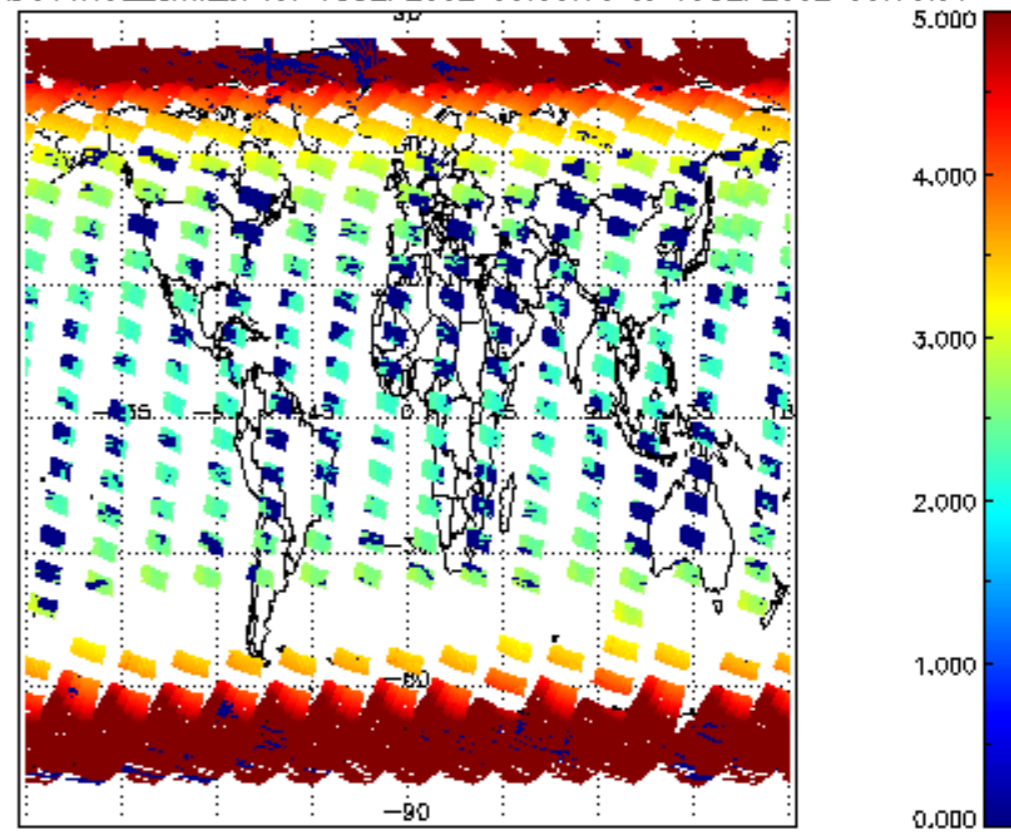
SCIOL2P_NADUV1N02_vcd_err for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

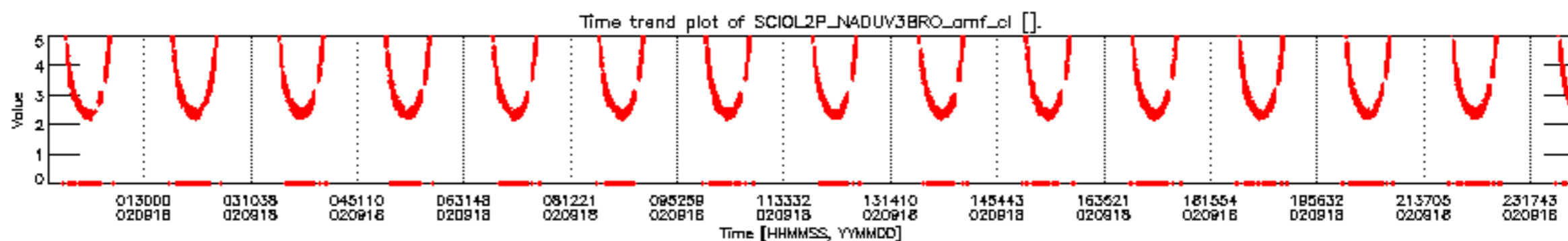
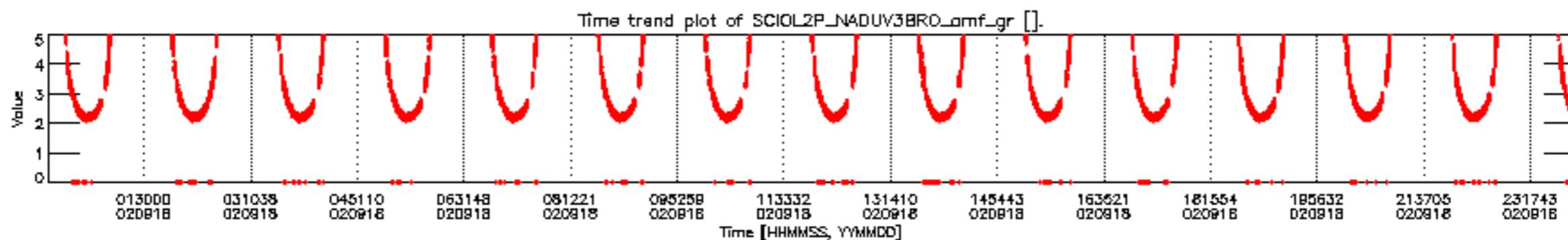
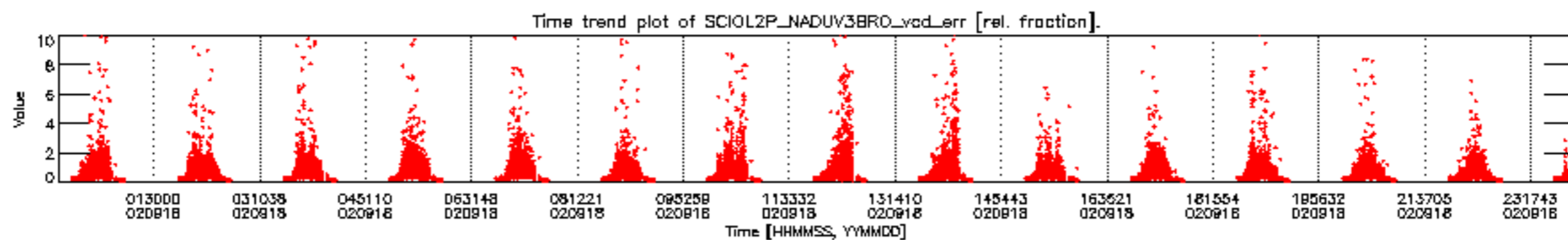
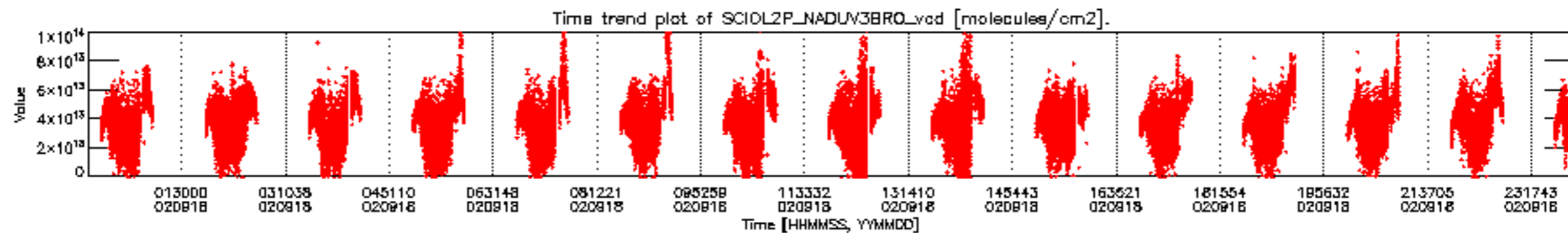


SCIOL2P_NADUV1N02_amf_gr for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

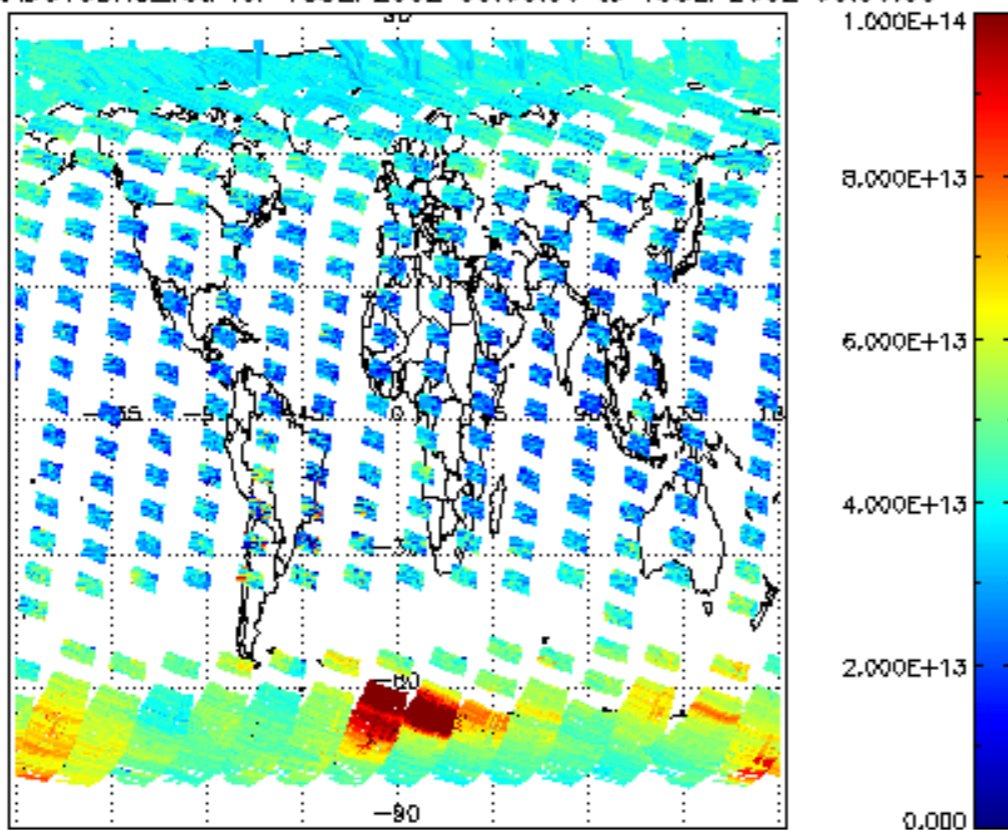


SCIOL2P_NADUV1N02_amf_cl for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

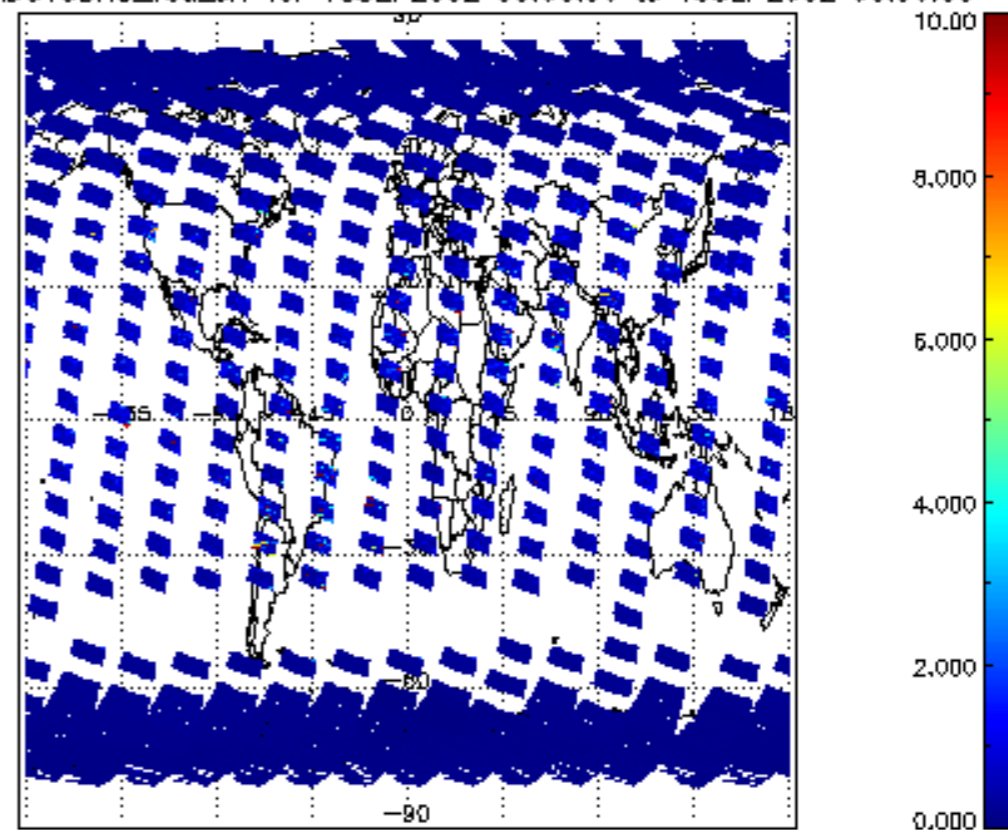




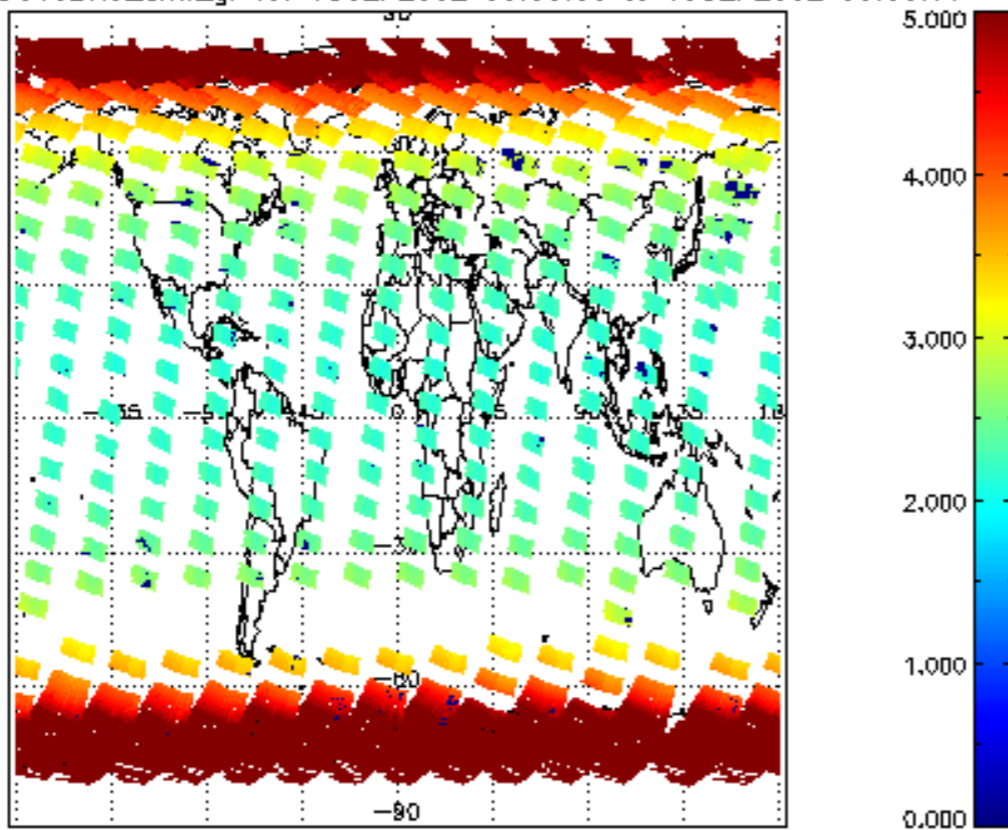
SCIOL2P_NADUV3BRO_vcd for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



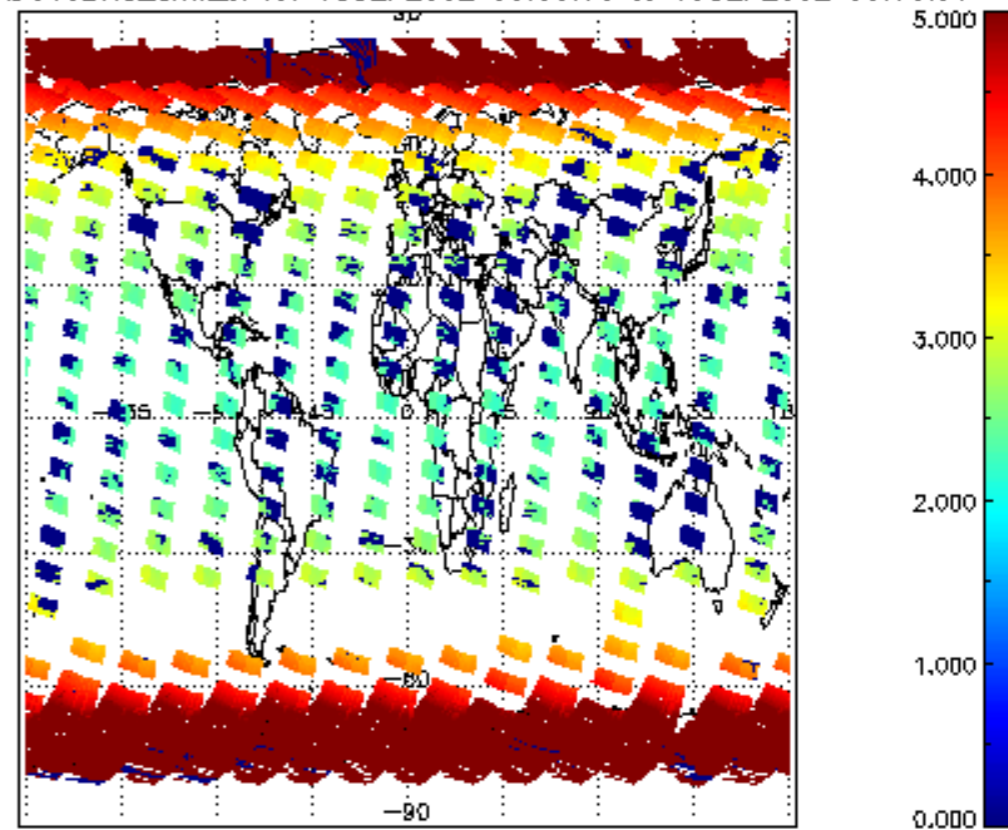
SCIOL2P_NADUV3BRO_vcd_err for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

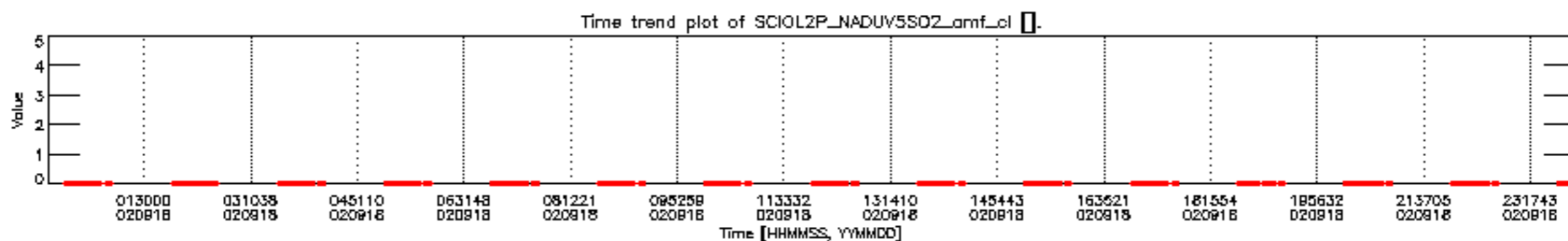
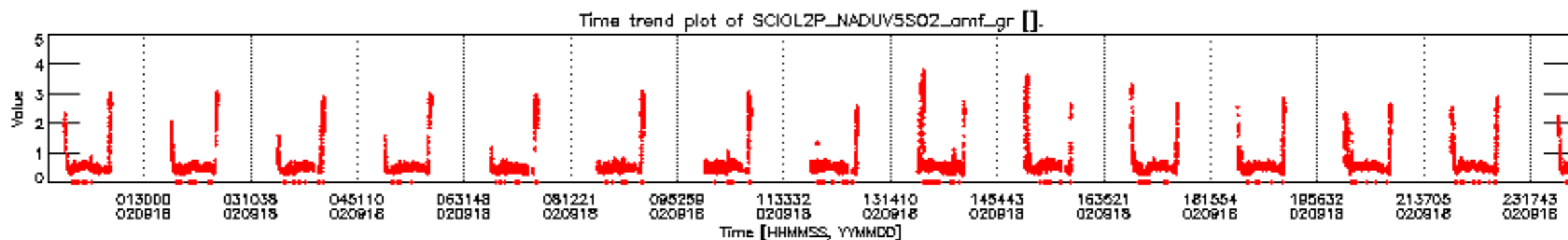
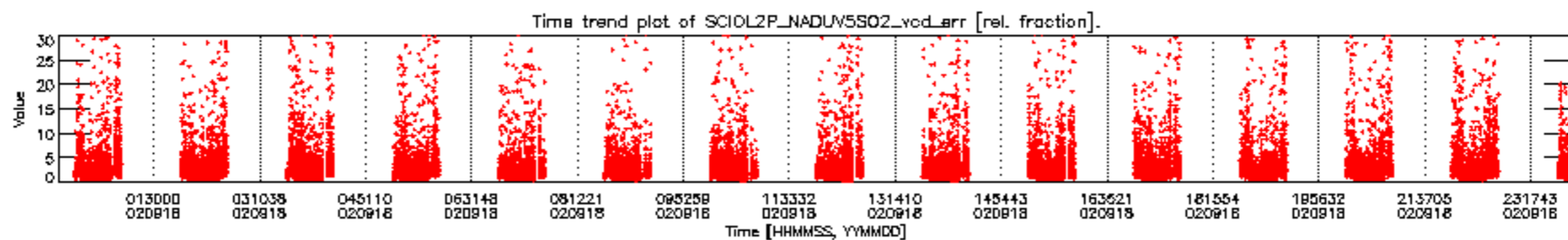
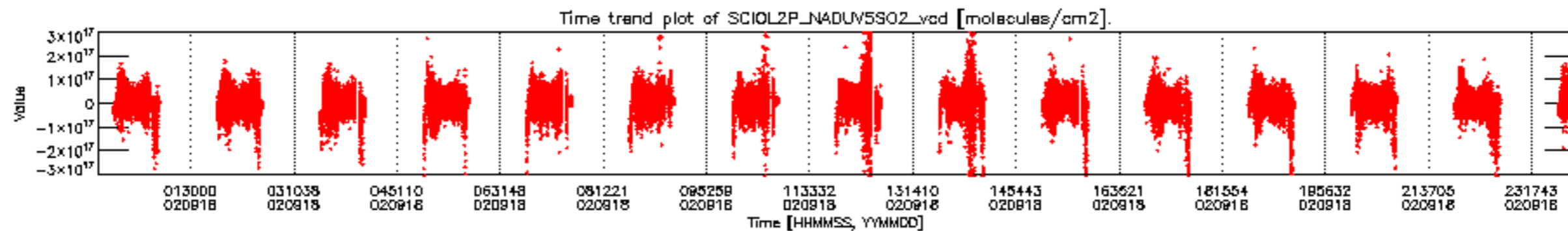


SCIOL2P_NADUV3BRO_amf_gr for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

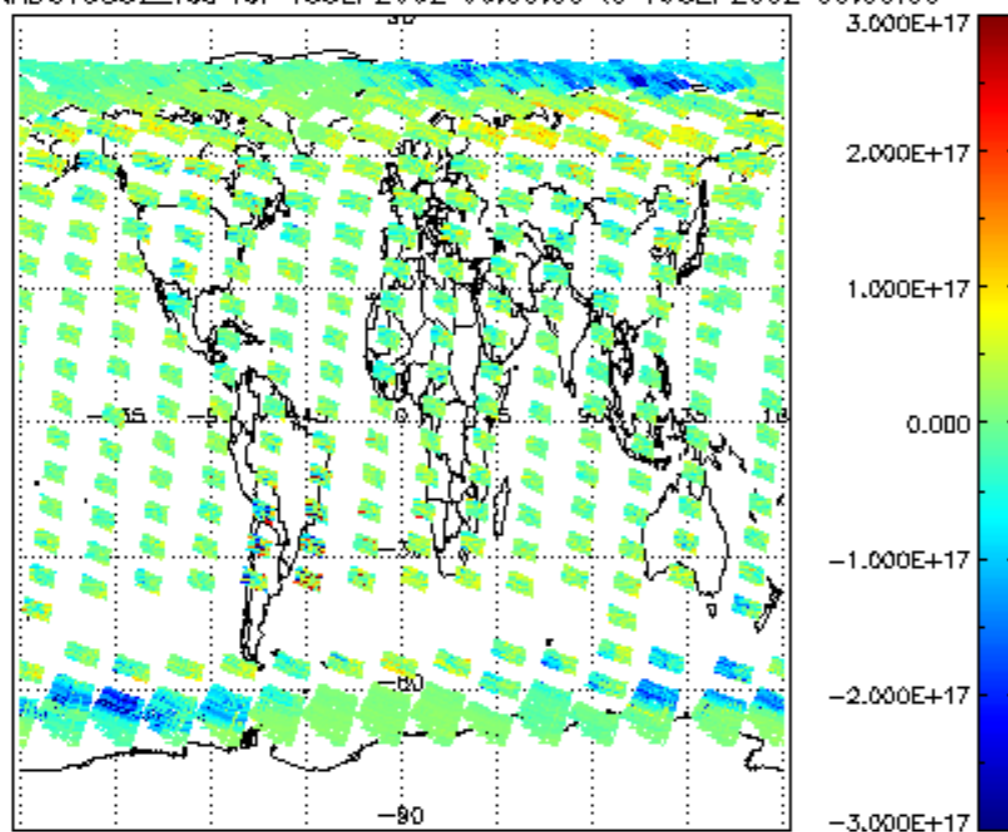


SCIOL2P_NADUV3BRO_amf_cl for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

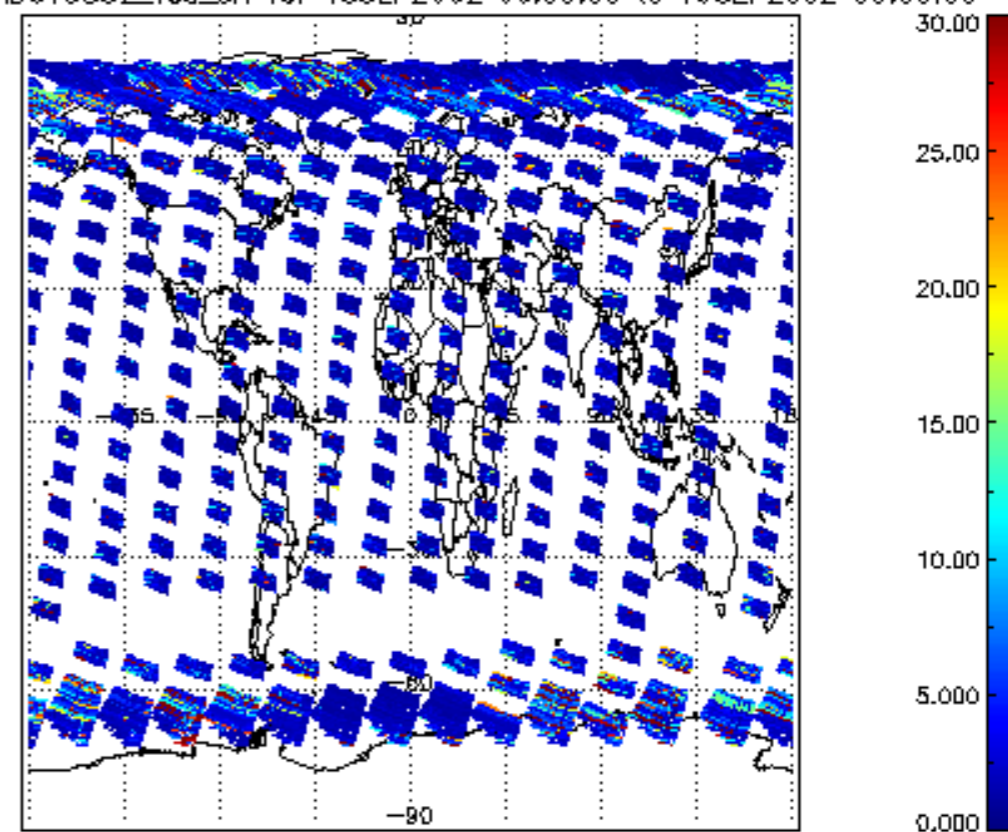




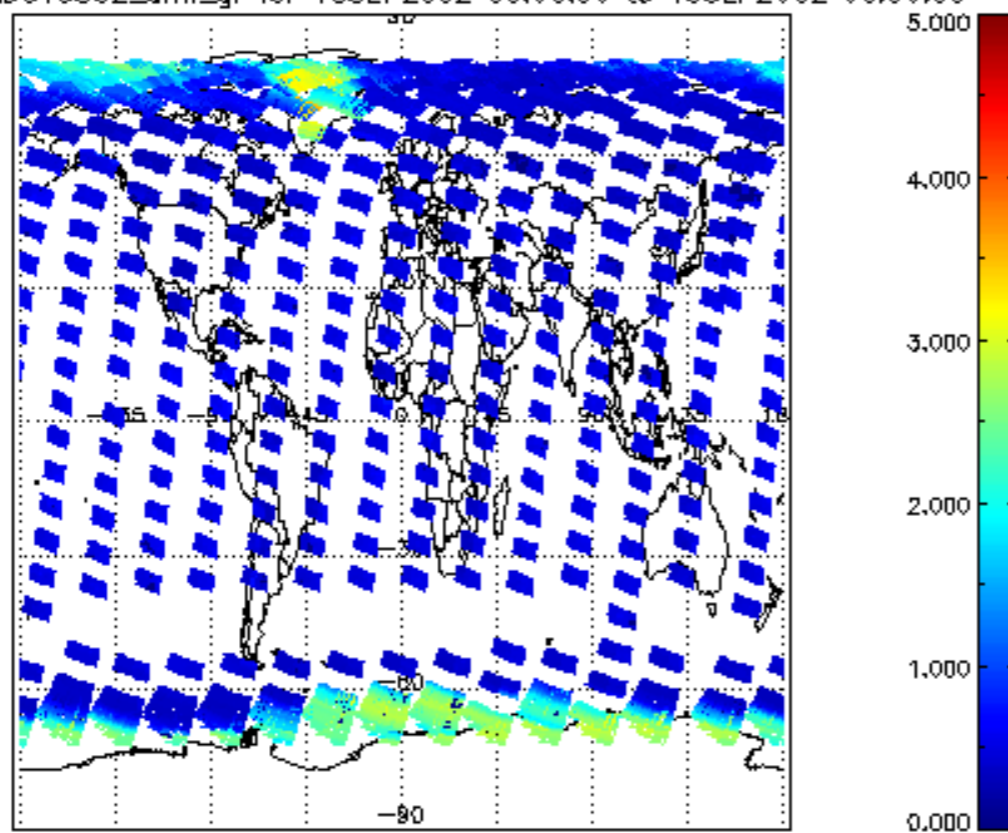
SCIOL2P_NADUV5S02_vcd for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



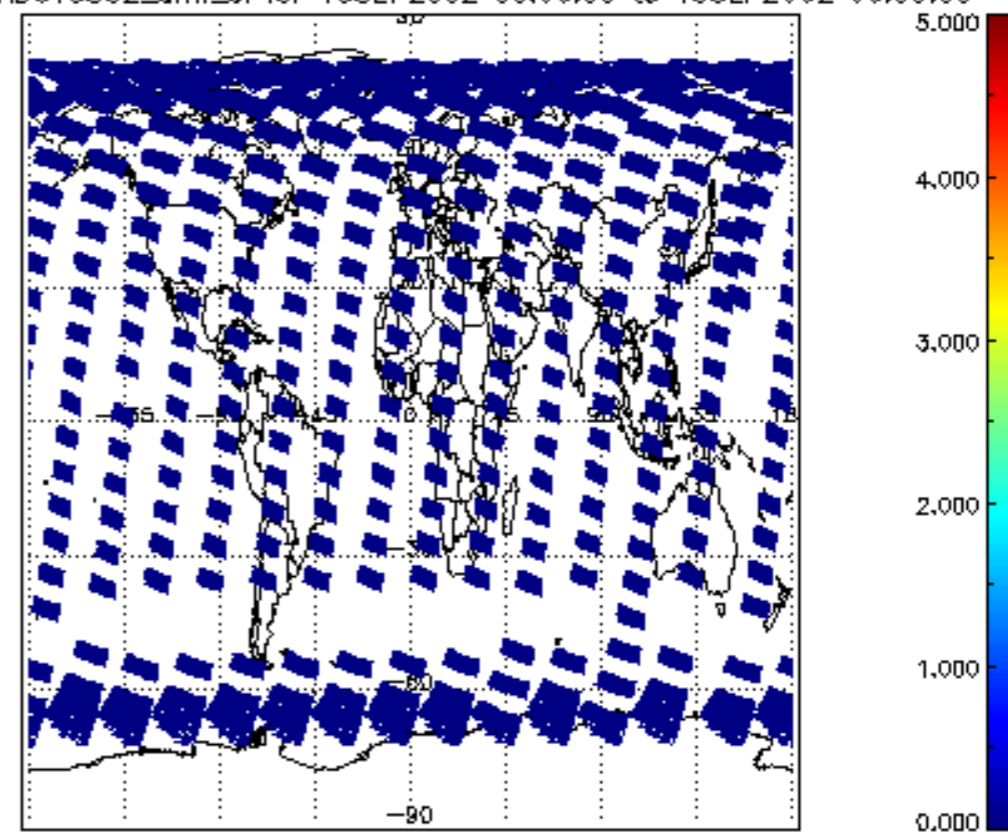
SCIOL2P_NADUV5S02_vcd_err for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

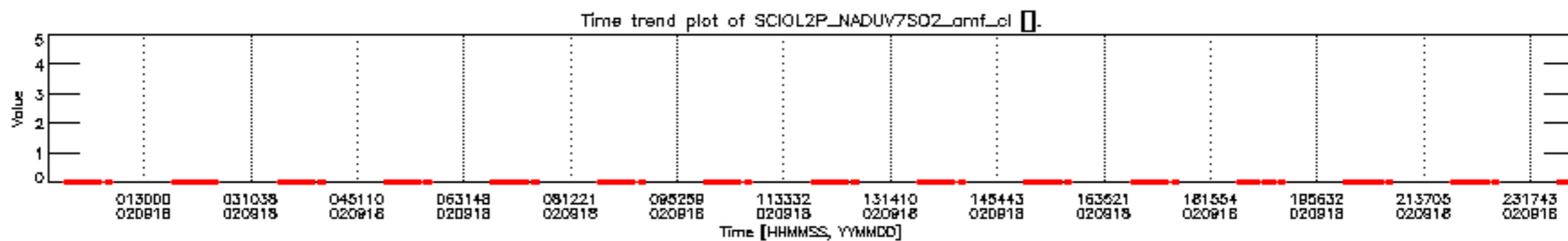
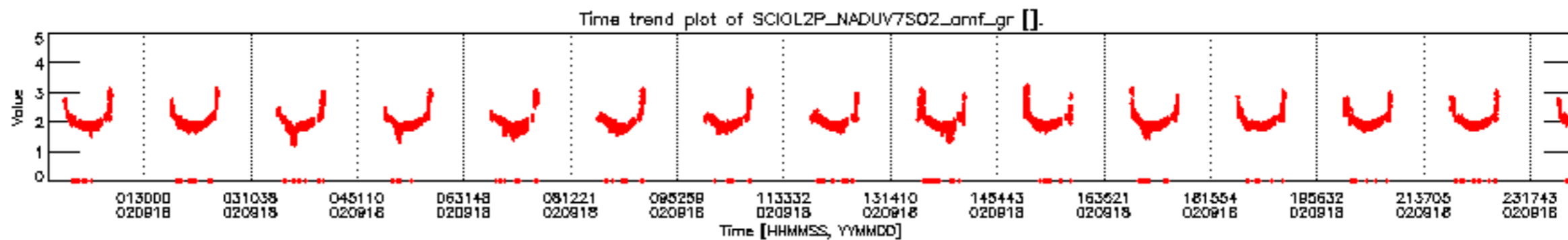
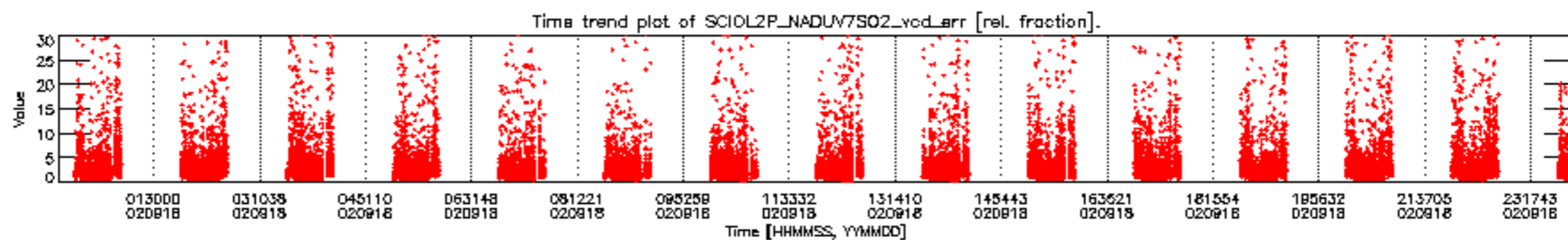
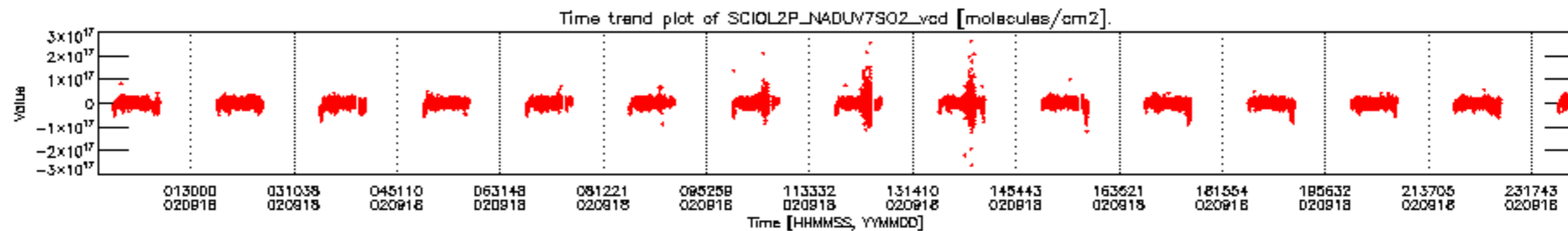


SCIOL2P_NADUV5S02_amf_gr for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

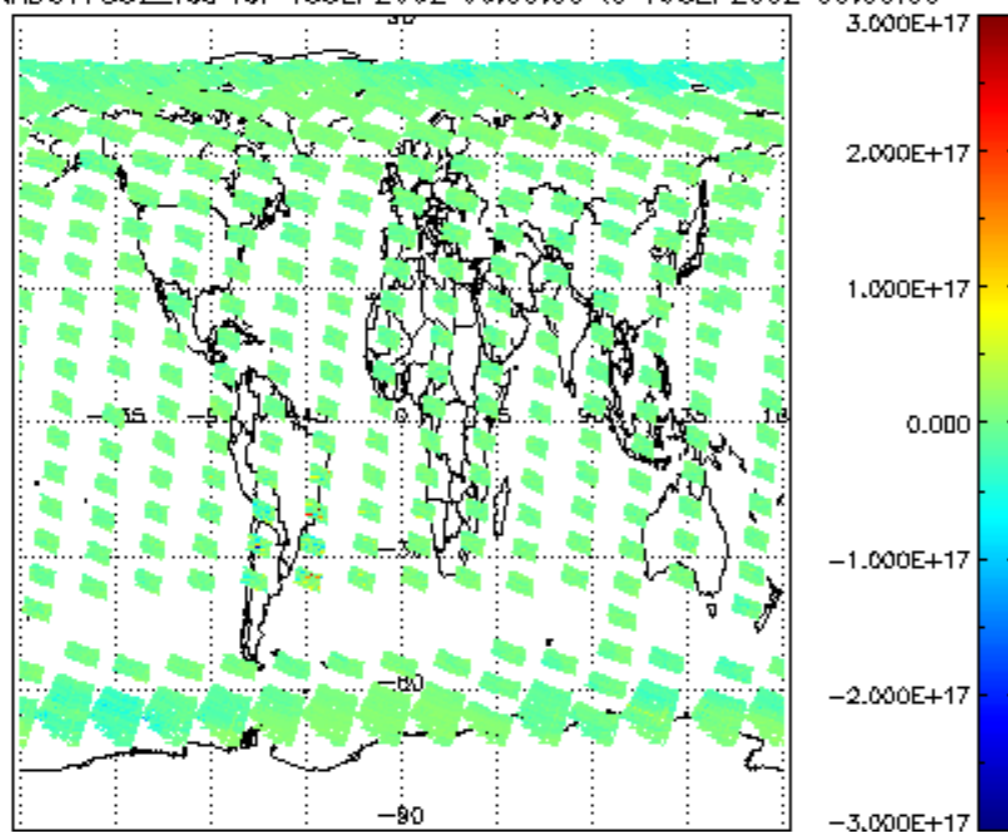


SCIOL2P_NADUV5S02_amf_cl for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

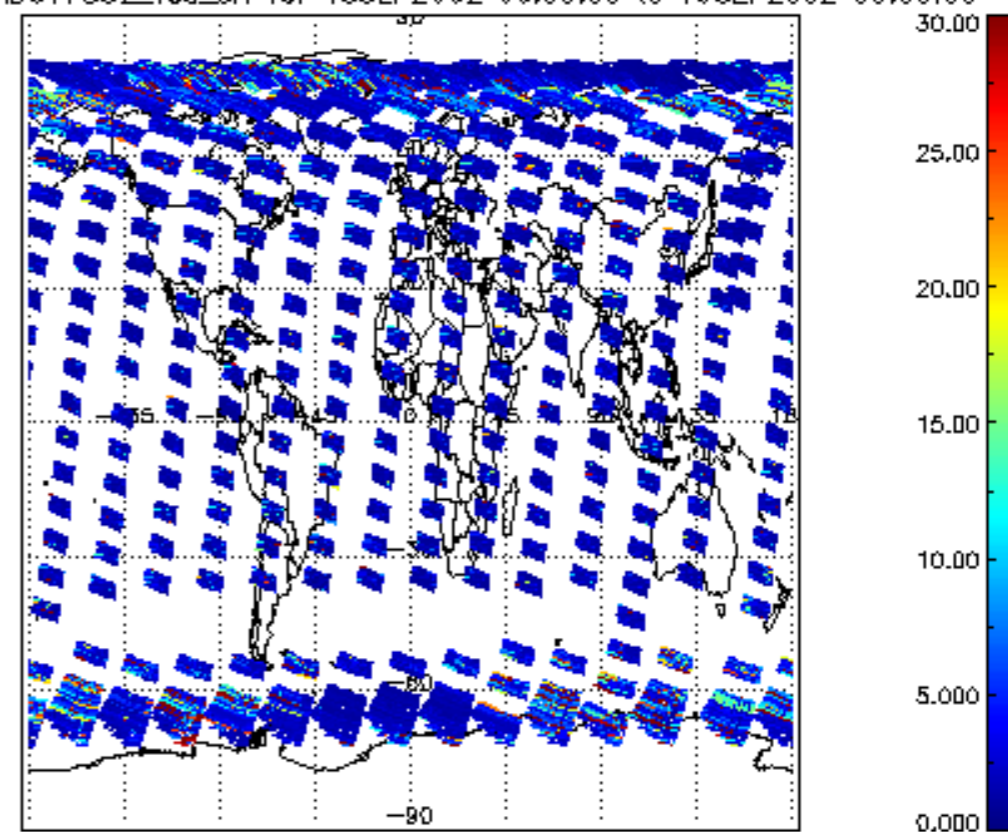




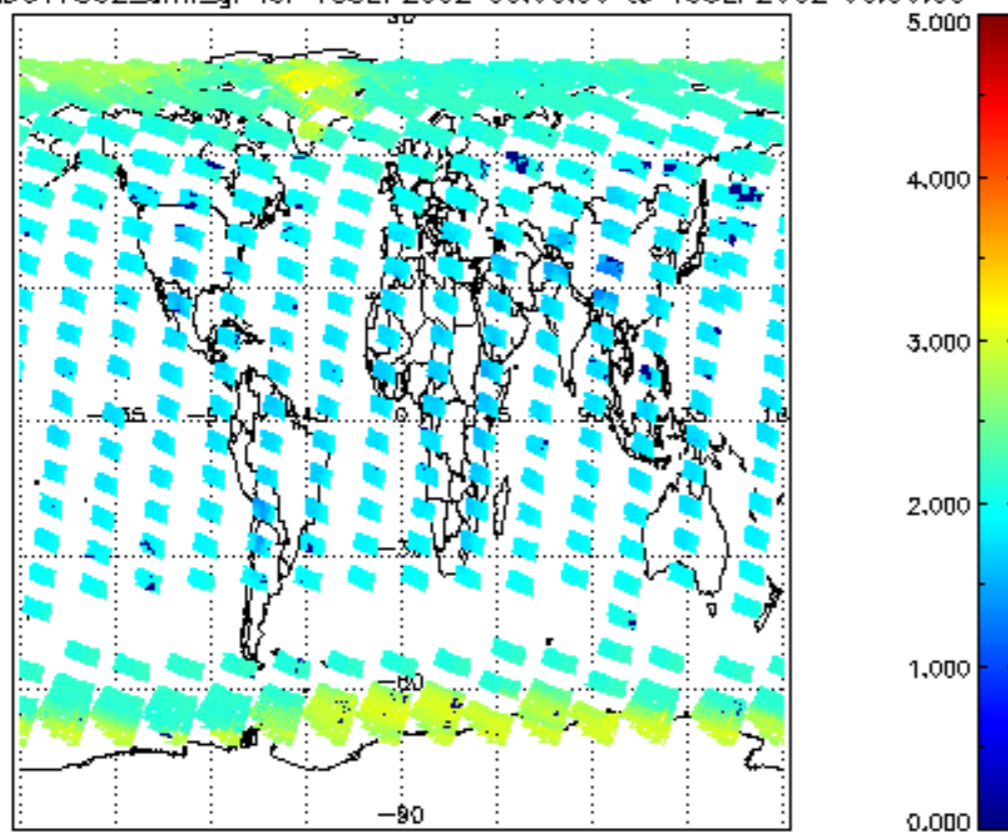
SCIOL2P_NADUV7S02_vcd for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



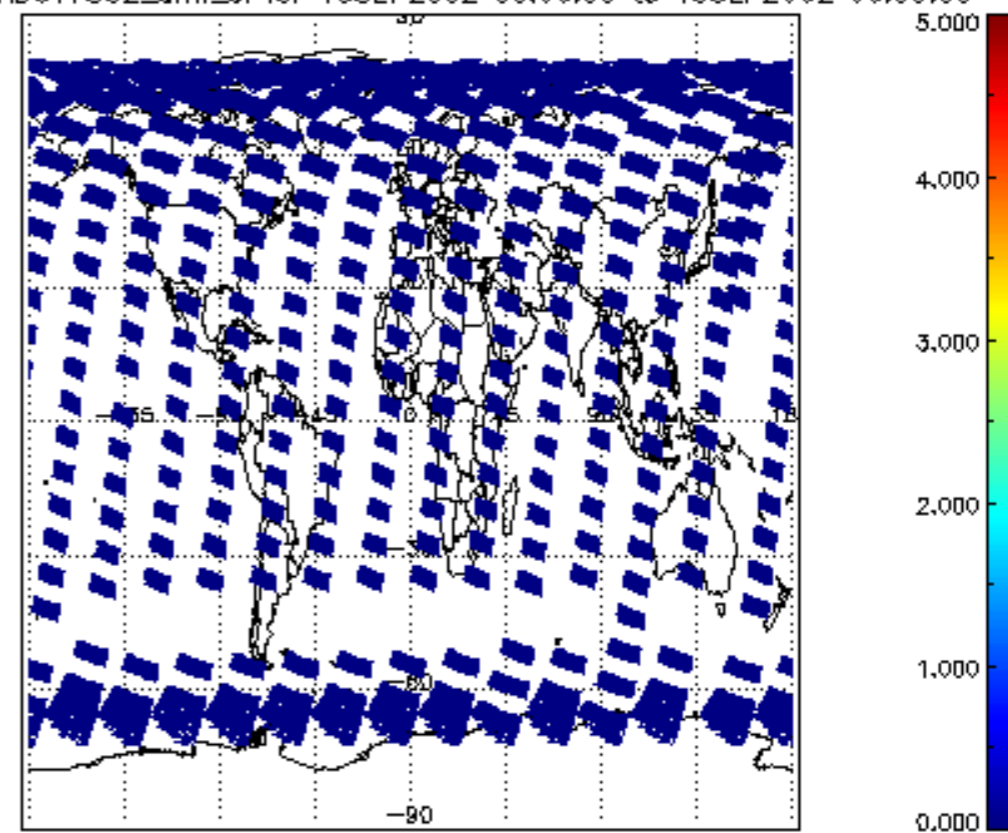
SCIOL2P_NADUV7S02_vcd_err for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

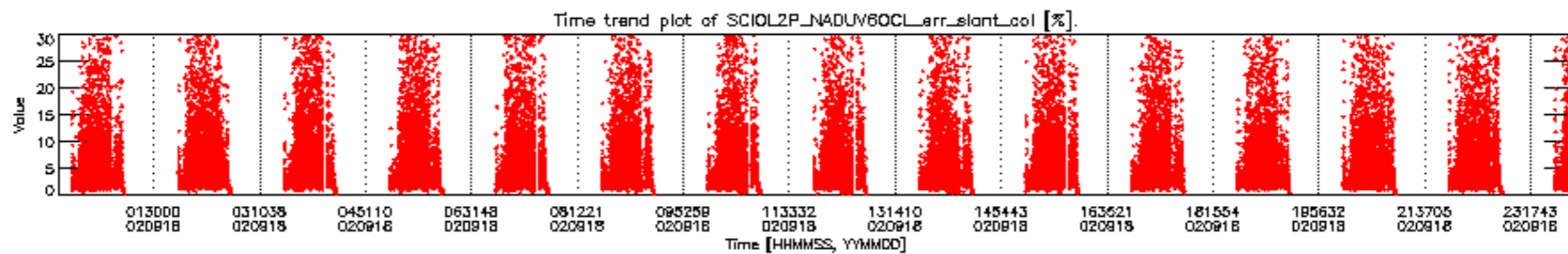
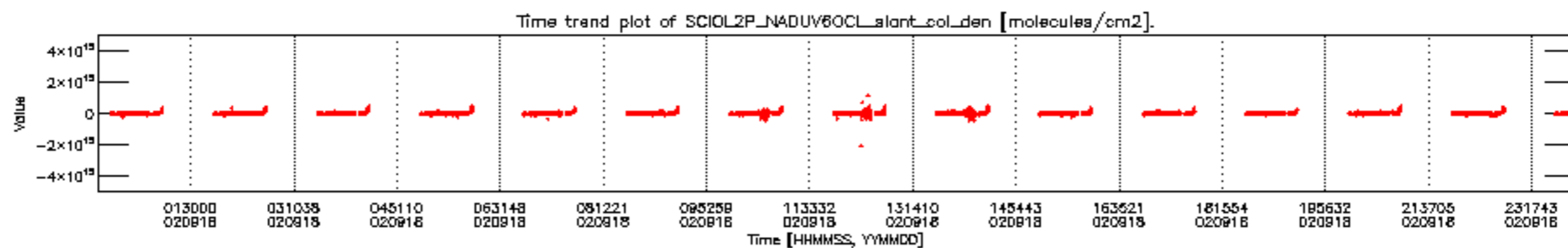


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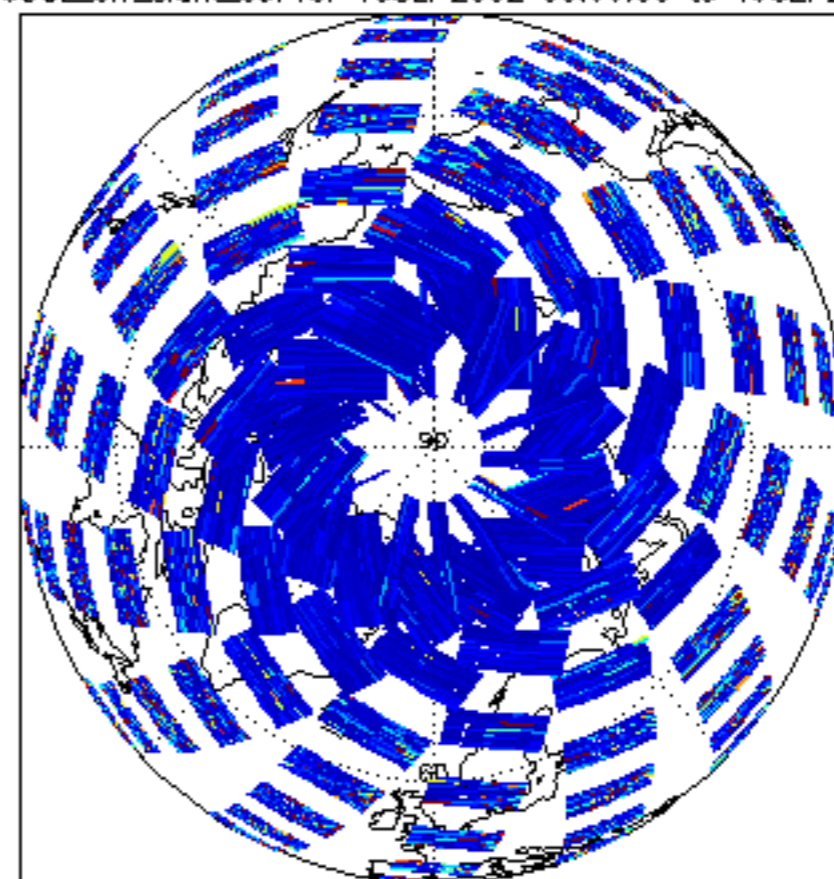
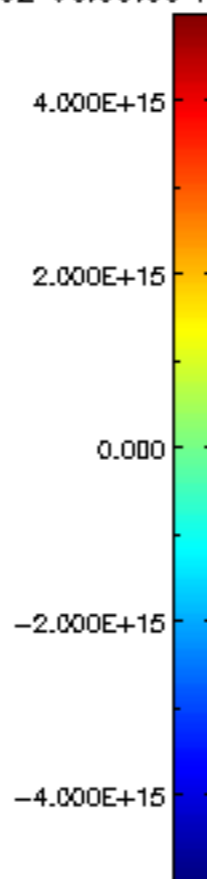
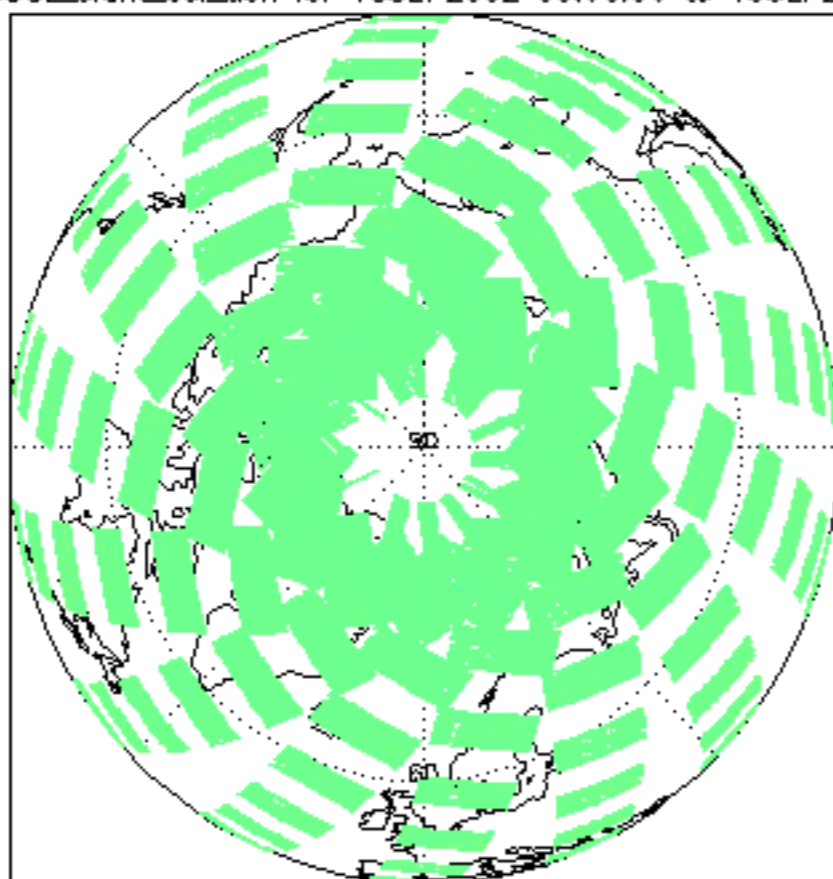


SCIOL2P_NADUV7S02_amf_cl for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

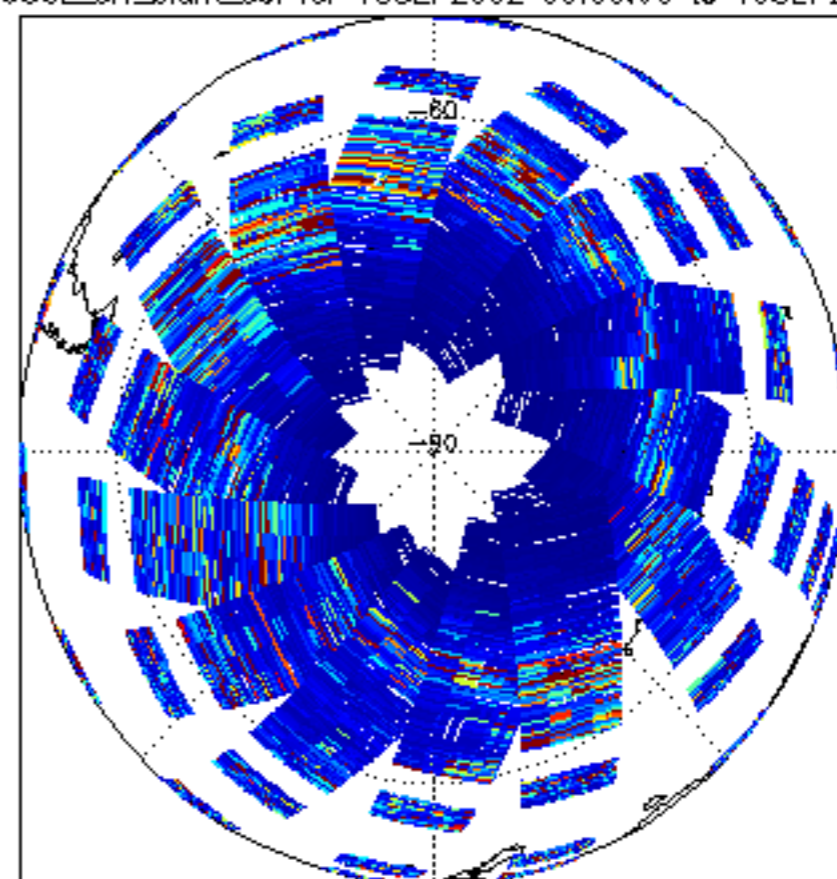
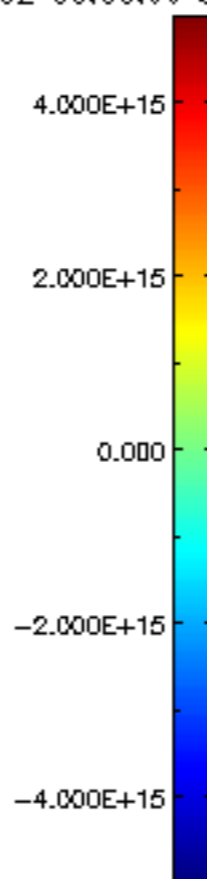
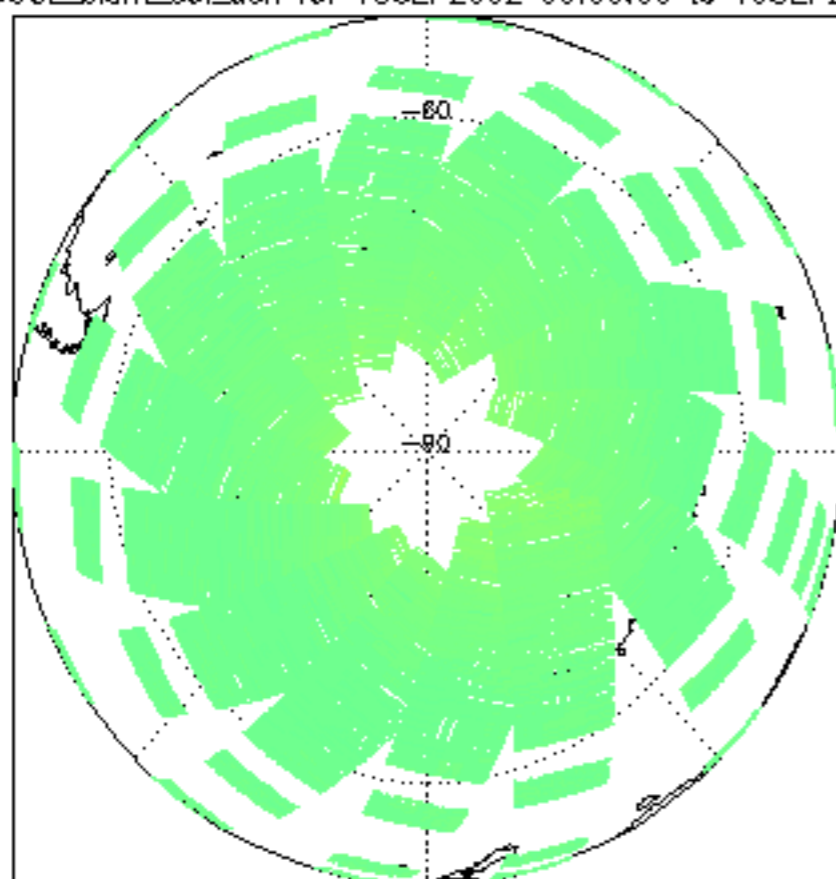


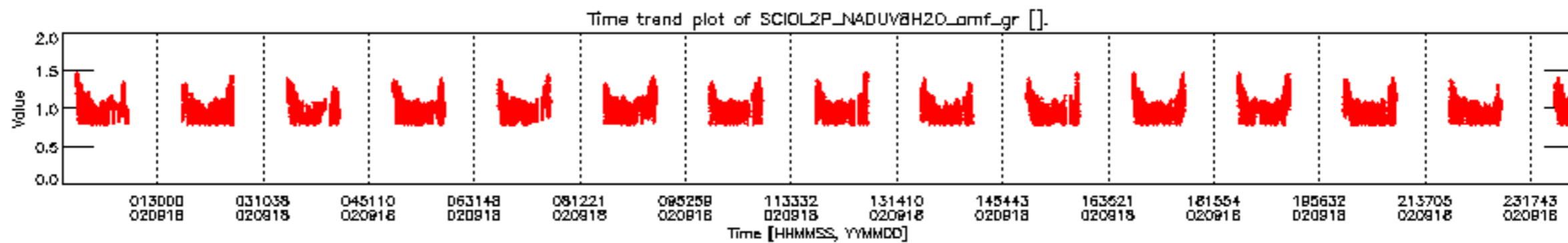
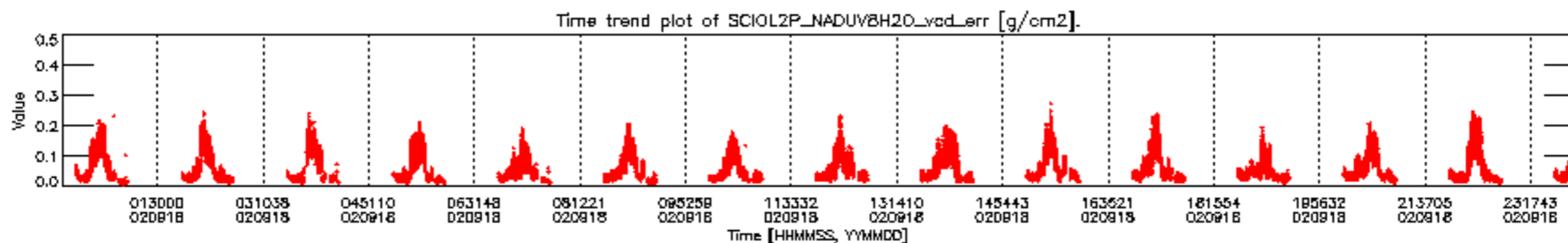
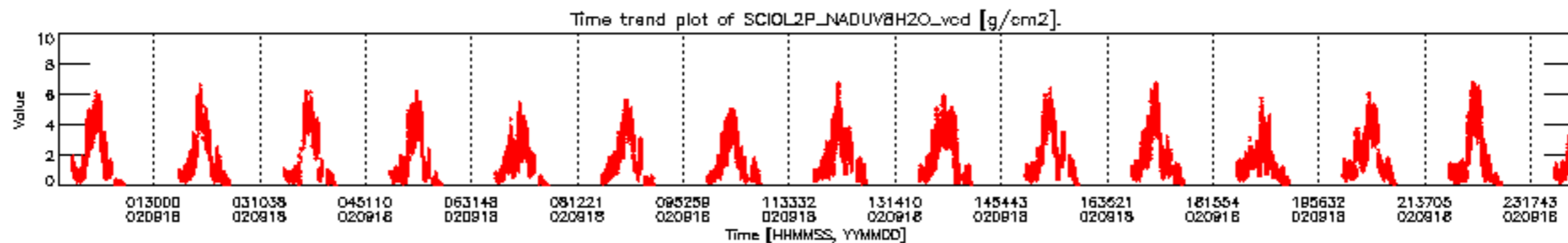


CIOL2P_NADUV60CL_slant_col_den for 18SEP2002 00:00:00 to 19SEP2002 00:00:00 np iCIOL2P_NADUV60CL_err_slant_col for 18SEP2002 00:00:00 to 19SEP2002 00:00:00 np

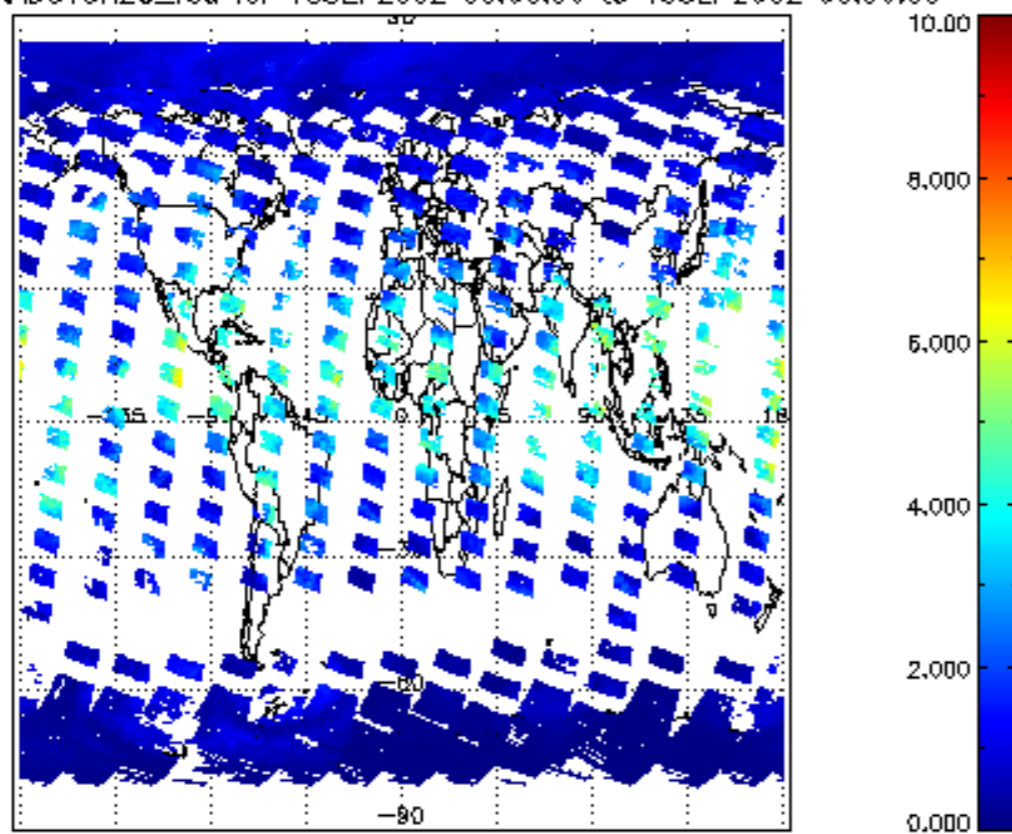


CIOL2P_NADUV60CL_slant_col_den for 18SEP2002 00:00:00 to 19SEP2002 00:00:00 sp iCIOL2P_NADUV60CL_err_slant_col for 18SEP2002 00:00:00 to 19SEP2002 00:00:00 sp

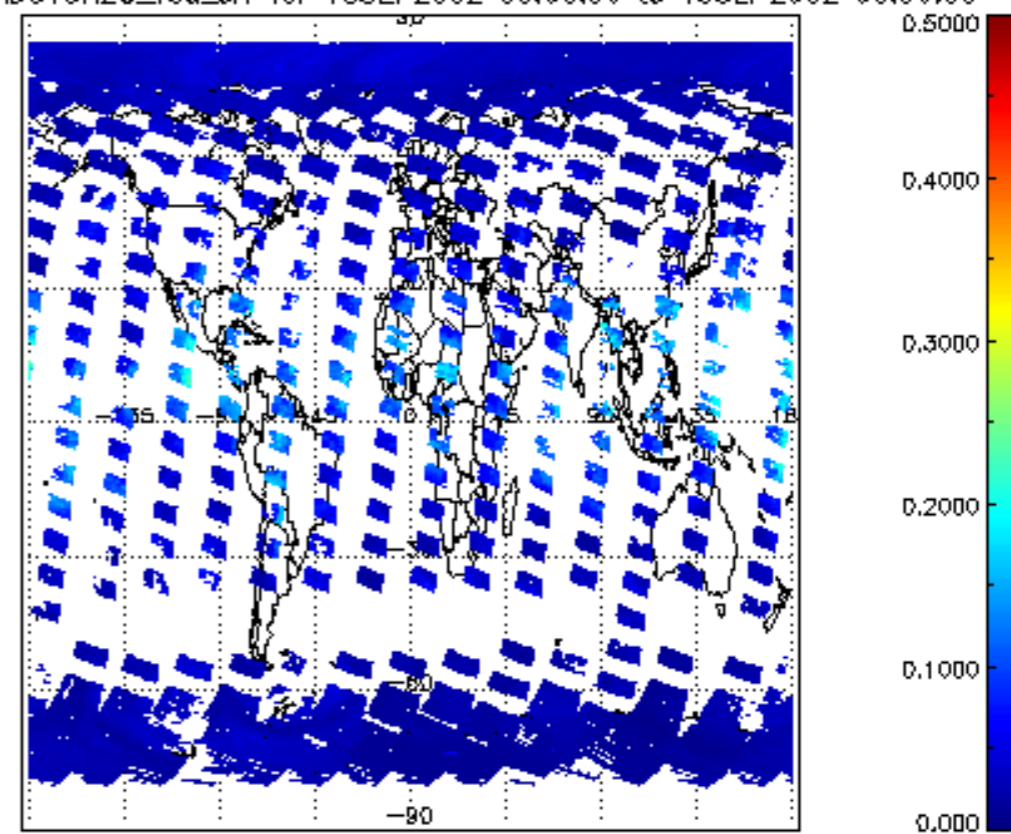




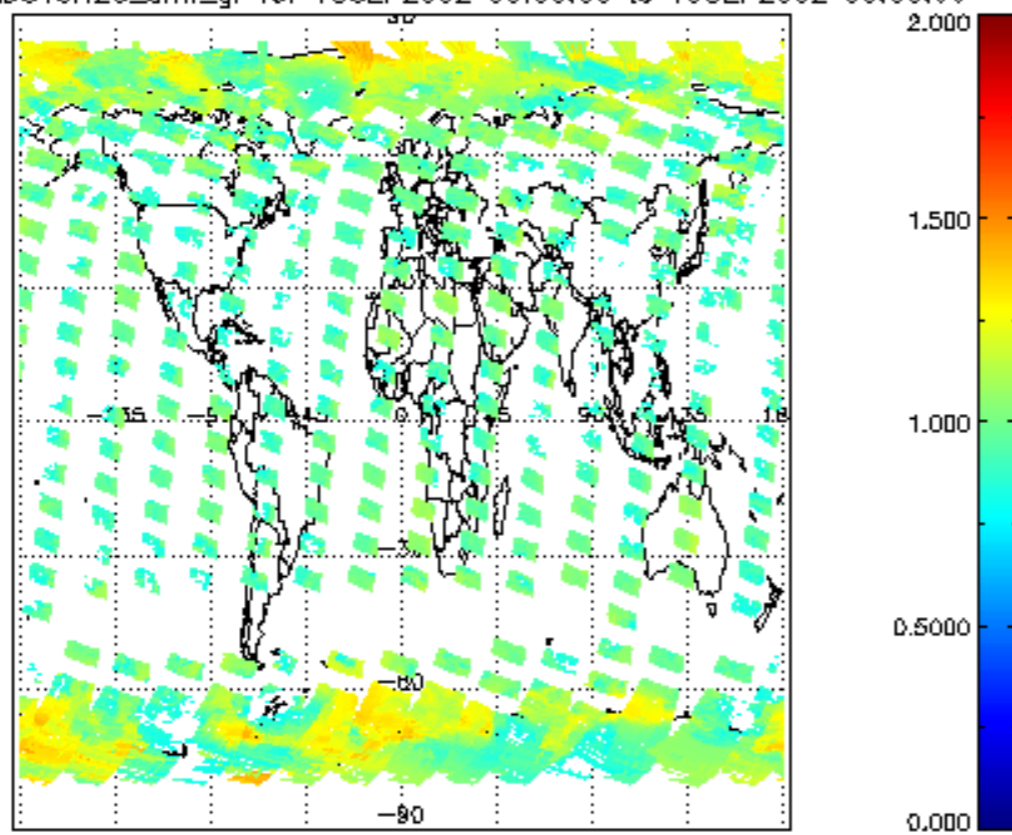
SCIOL2P_NADUV8H2O_vcd for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

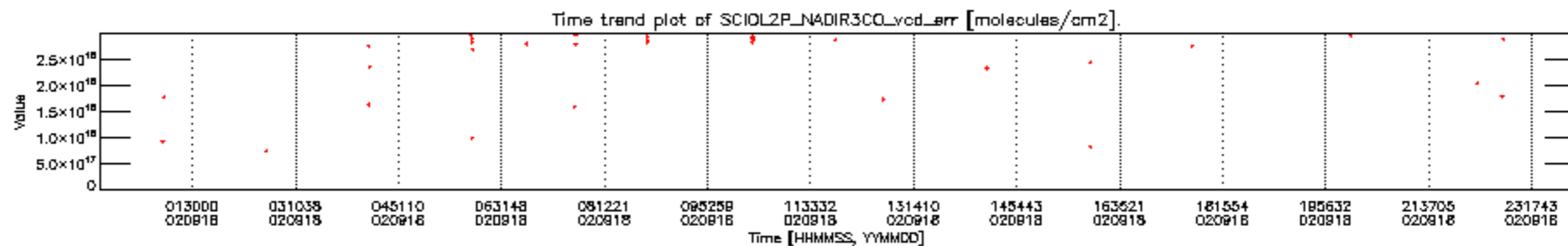
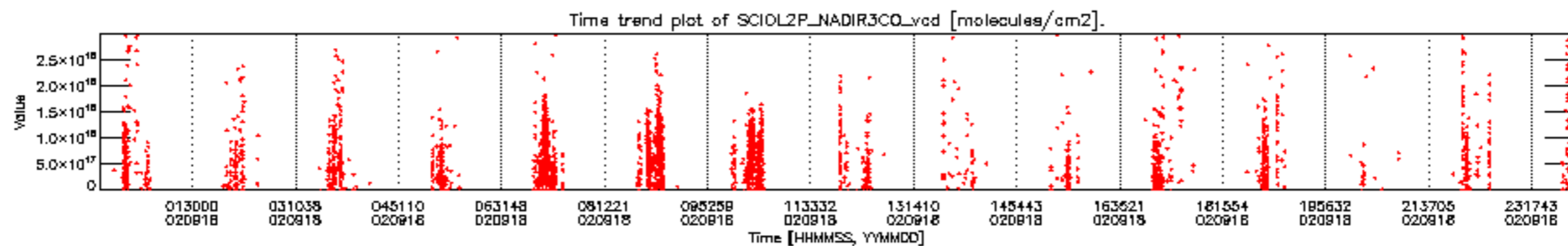


SCIOL2P_NADUV8H2O_vcd_err for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

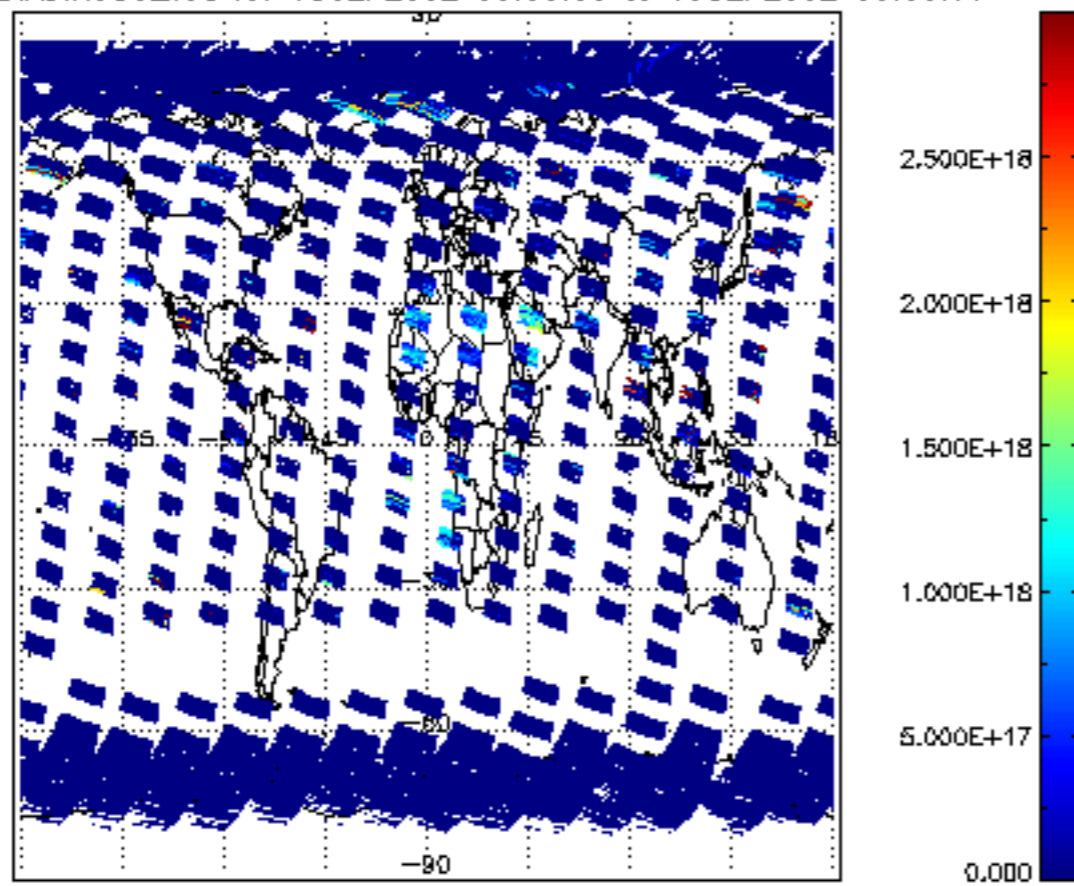


SCIOL2P_NADUV8H2O_amf_gr for 18SEP2002 00:00:00 to 19SEP2002 00:00:00

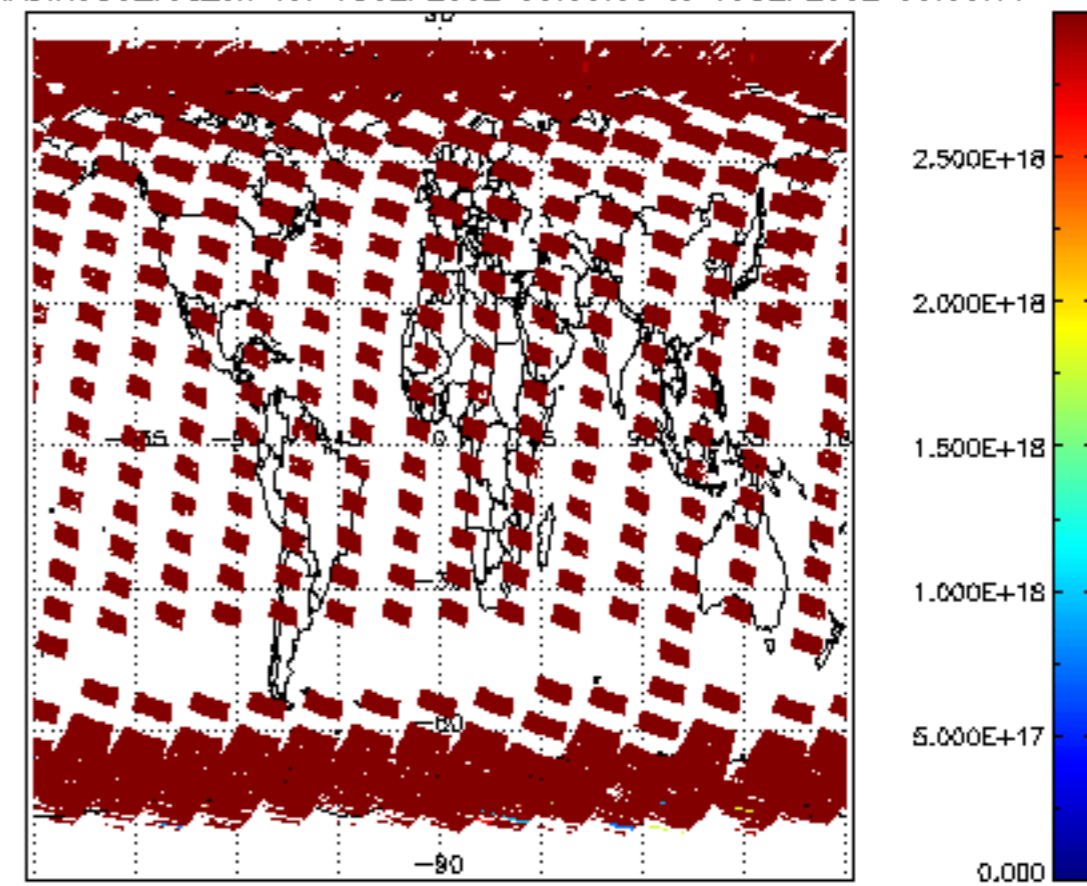




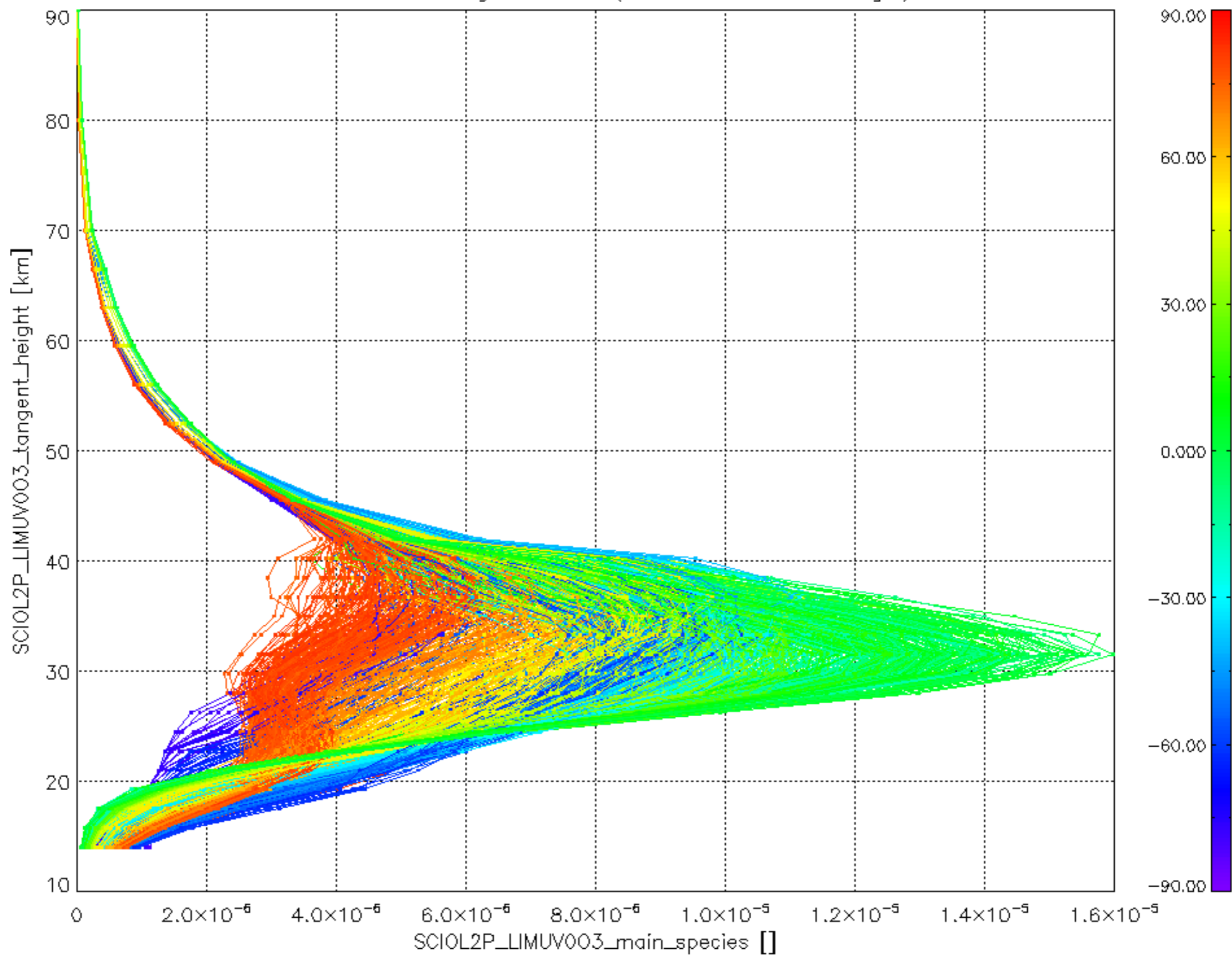
SCIOL2P_NADIR3CO_vcd for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



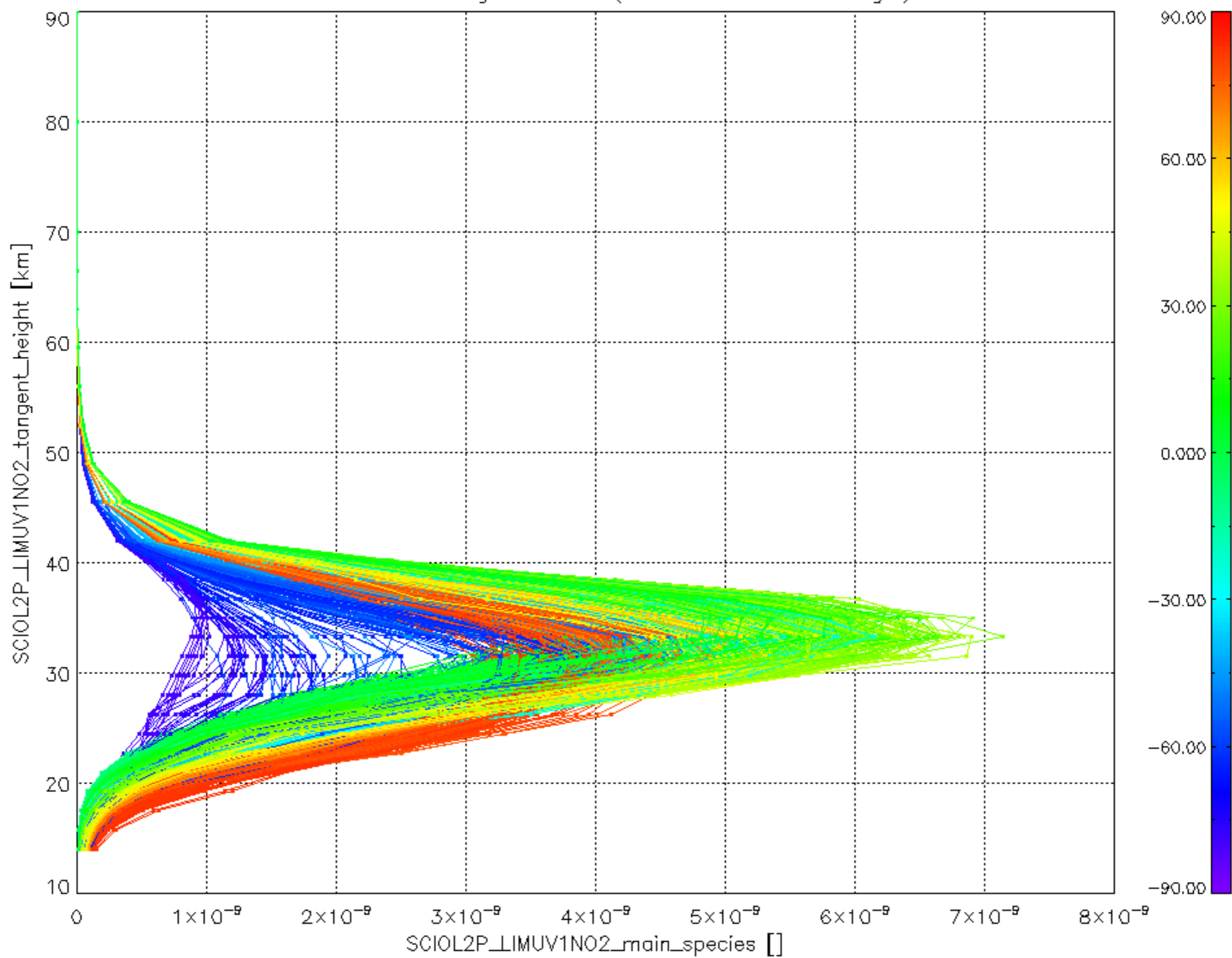
SCIOL2P_NADIR3CO_vcd_err for 18SEP2002 00:00:00 to 19SEP2002 00:00:00



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).

