

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 17:12:57
Data source version	SCIA-OL/5.02-W
Processing scope for products	23SEP2002 00:00:00 to 24SEP2002 00:00:00
Start time of first product within scope	22SEP2002 23:08:15
Stop time of last product within scope	23SEP2002 23:34:26
Total number of level 2 products	14
Number of level 2 products with errors	0

2.1.2 Summary per product

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

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

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

#	Product name	Start time	Stop time	Prod err	Fit summary
0	SCI_OL__2PWDP A20020922_230815_000034492009_00388_02947_1819.N1	22SEP2002 23:08:15	23SEP2002 00:05:44	0	GOOD
1	SCI_OL__2PWDP A20020923_004851_000035442009_00389_02948_1820.N1	23SEP2002 00:48:51	23SEP2002 01:47:56	0	GOOD
2	SCI_OL__2PWDP A20020923_022927_000034612009_00390_02949_3047.N1	23SEP2002 02:29:27	23SEP2002 03:27:09	0	GOOD
3	SCI_OL__2PWDP A20020923_041004_000035442009_00391_02950_3048.N1	23SEP2002 04:10:04	23SEP2002 05:09:09	0	GOOD
4	SCI_OL__2PWDP A20020923_055143_000033982009_00392_02951_1823.N1	23SEP2002 05:51:43	23SEP2002 06:48:22	0	GOOD

5	SCI_OL__2PWDP20020923_073117_000035442009_00393_02952_1824.N1	23SEP2002 07:31:17	23SEP2002 08:30:22	0	GOOD
6	SCI_OL__2PWDP20020923_091153_000034612009_00394_02953_1825.N1	23SEP2002 09:11:53	23SEP2002 10:09:35	0	GOOD
7	SCI_OL__2PWDP20020923_105230_000035442009_00395_02954_1826.N1	23SEP2002 10:52:30	23SEP2002 11:51:35	0	GOOD
8	SCI_OL__2PWDP20020923_141342_000035442009_00397_02956_1827.N1	23SEP2002 14:13:42	23SEP2002 15:12:47	0	GOOD
9	SCI_OL__2PWDP20020923_155419_000034612009_00398_02957_1828.N1	23SEP2002 15:54:19	23SEP2002 16:52:00	0	GOOD
10	SCI_OL__2PWDP20020923_173456_000035442009_00399_02958_1829.N1	23SEP2002 17:34:56	23SEP2002 18:34:00	0	GOOD
11	SCI_OL__2PWDP20020923_191610_000034442009_00400_02959_1830.N1	23SEP2002 19:16:10	23SEP2002 20:13:35	0	GOOD
12	SCI_OL__2PWDP20020923_205628_000034612009_00401_02960_1831.N1	23SEP2002 20:56:28	23SEP2002 21:54:10	0	GOOD
13	SCI_OL__2PWDP20020923_223645_000034612009_00402_02961_1832.N1	23SEP2002 22:36:45	23SEP2002 23:34:26	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: 228203

Total number of cloud data DSRs with good quality flag (=0): 228203 (100.0 %)

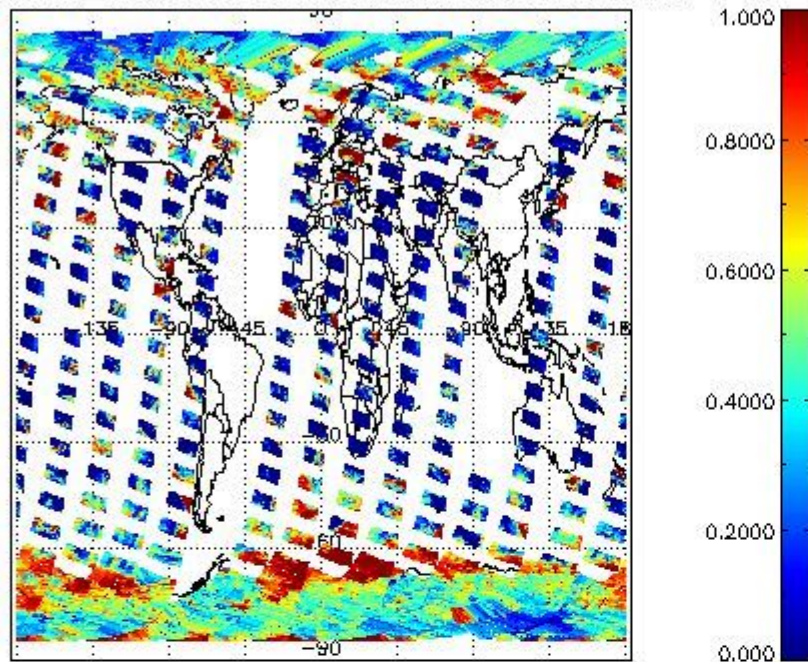
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	228203	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	228203	0.096276	0.062500	0.062500	1.0000	0.093723	s
CL_FRAC	228203	0.30041	0.17077	0.0000	1.0000	0.33395	
CL_FRAC_ERR	228203	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	228203	3.0808	2.0000	2.0000	32.000	2.9991	
PMD_READ_CL[0]	228203	0.30421	0.0000	0.0000	32.000	1.2005	-
PMD_READ_CL[1]	228203	0.82415	0.0000	0.0000	31.000	1.0955	-
CL_TOP_HEIGHT	210611	2.6628	1.1000	0.0000	17.000	3.7524	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	210611	36.047	20.917	0.0000	101.00	39.989	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	228203	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	228203	11001111	11000100	11000000	11100000	3712.9	
AERO_ABSO_IND	228203	0.24041	0.0000	0.0000	10.349	0.50330	
AERO_IND_DIAG	228203	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	228203	00101110	00000000	00000000	11000000	21105.	

Time and geolocation plots:

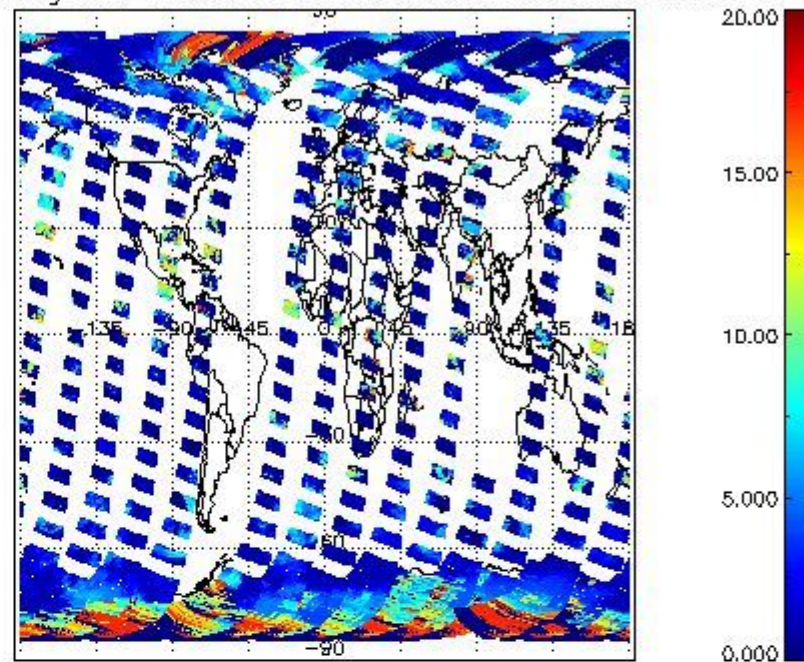
Plots are available for the following parameters:

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

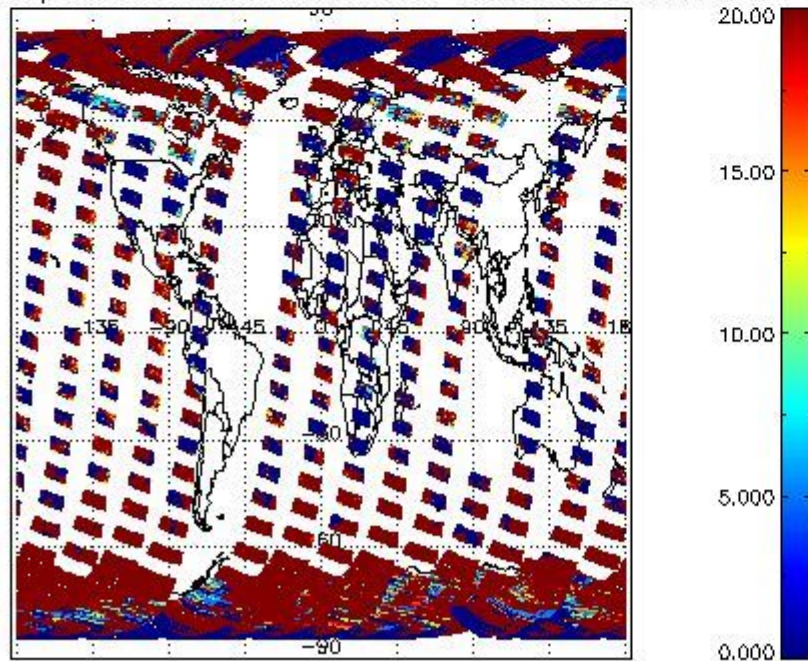
cL_frac for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



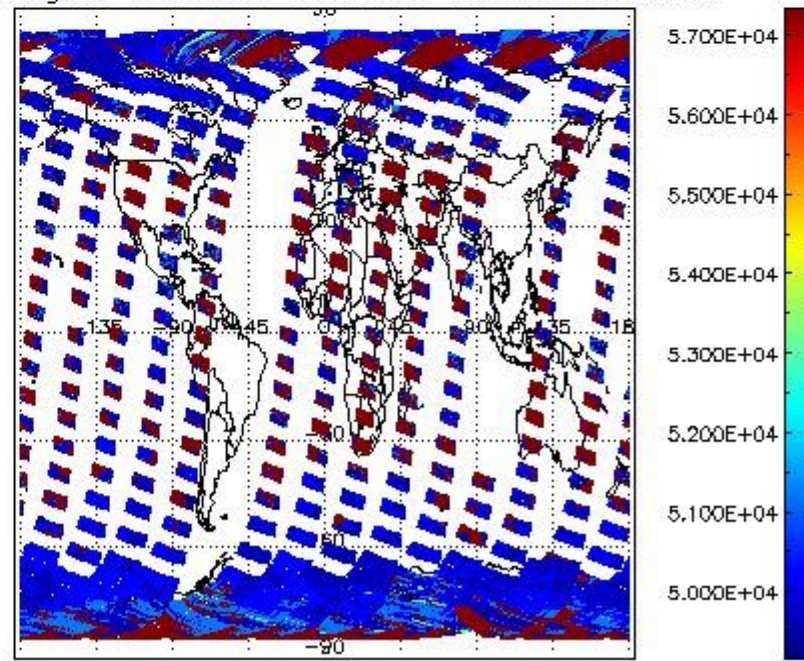
cL_top_height for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



cL_opt_depth for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



cloud_flags for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



2.2.2 Nadir

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

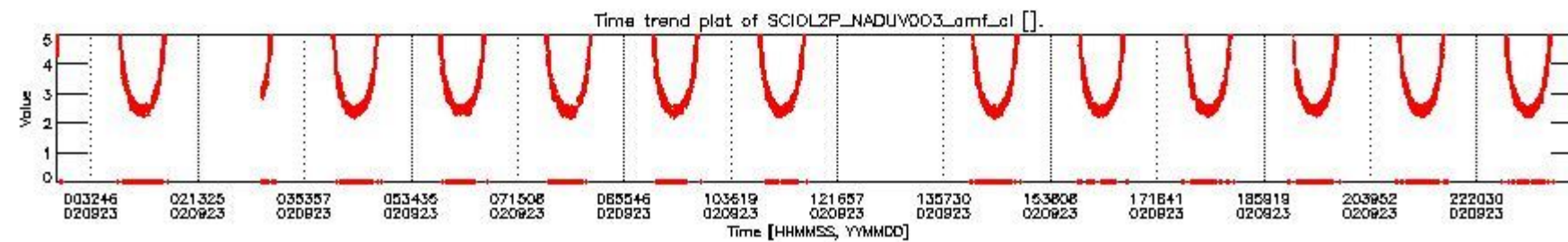
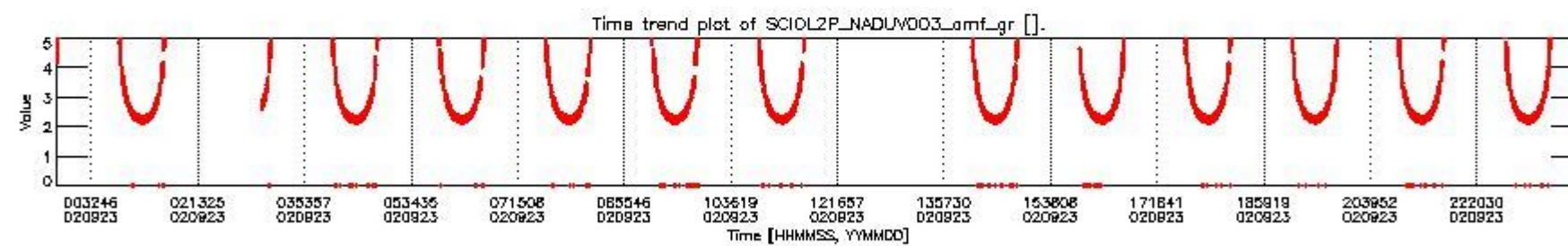
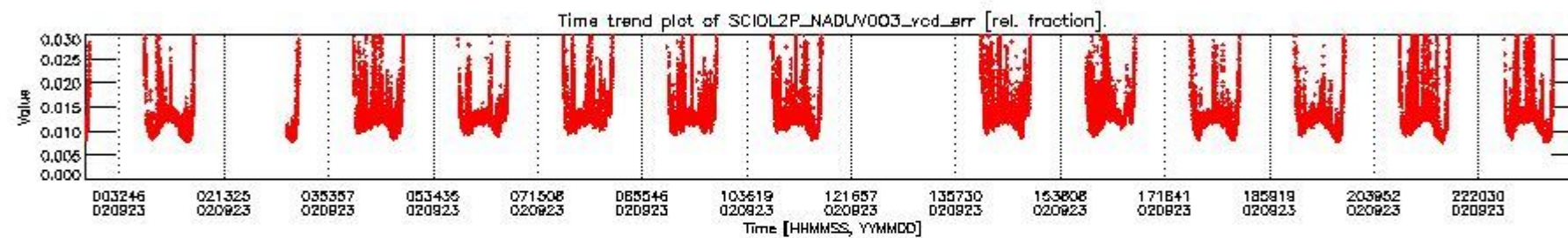
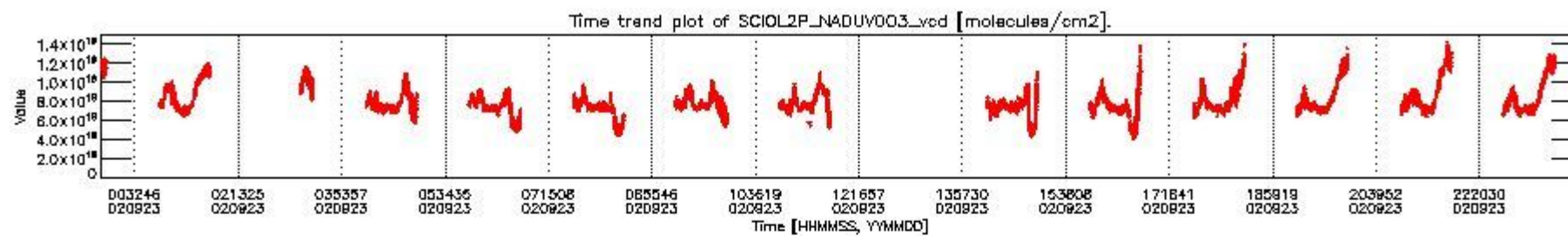
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

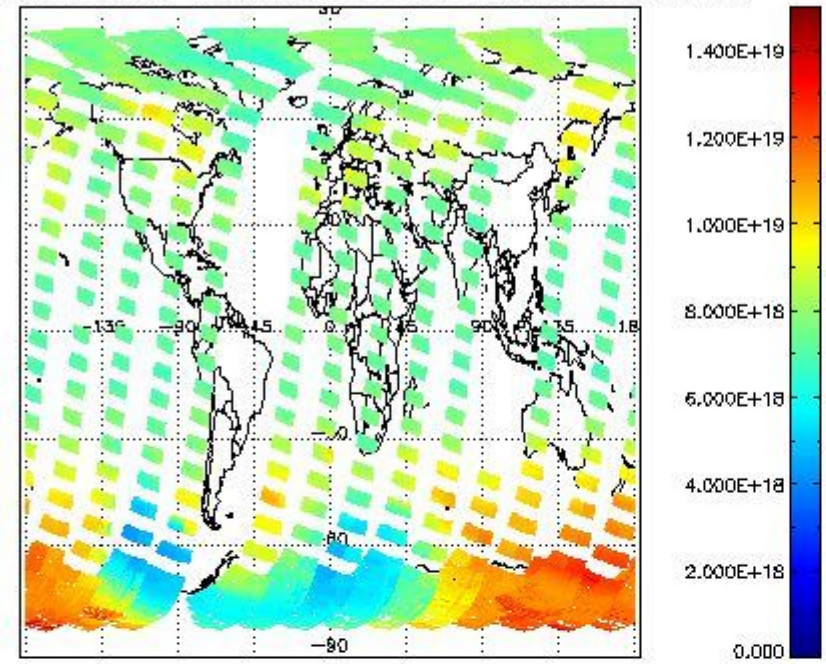
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

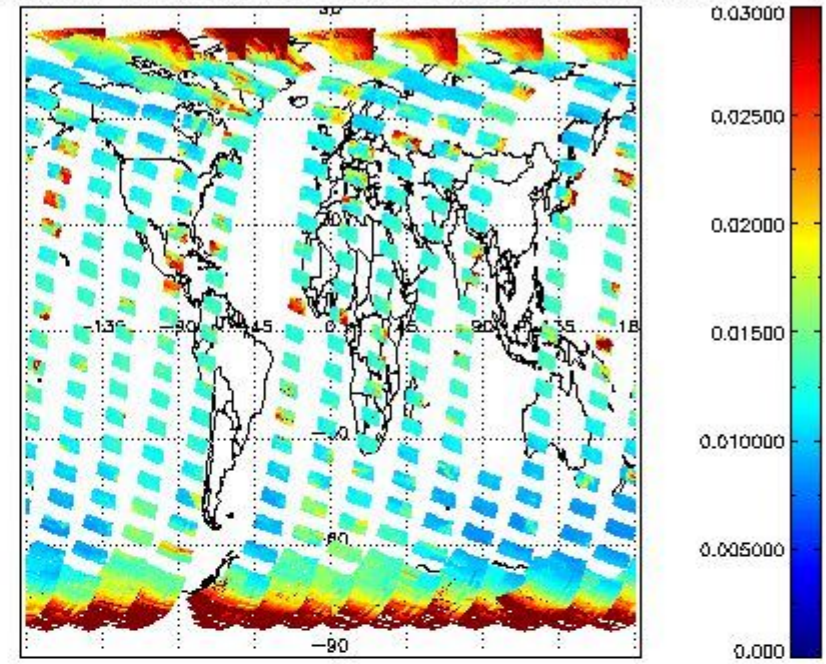
2.2.2.1 O3 (UV0)



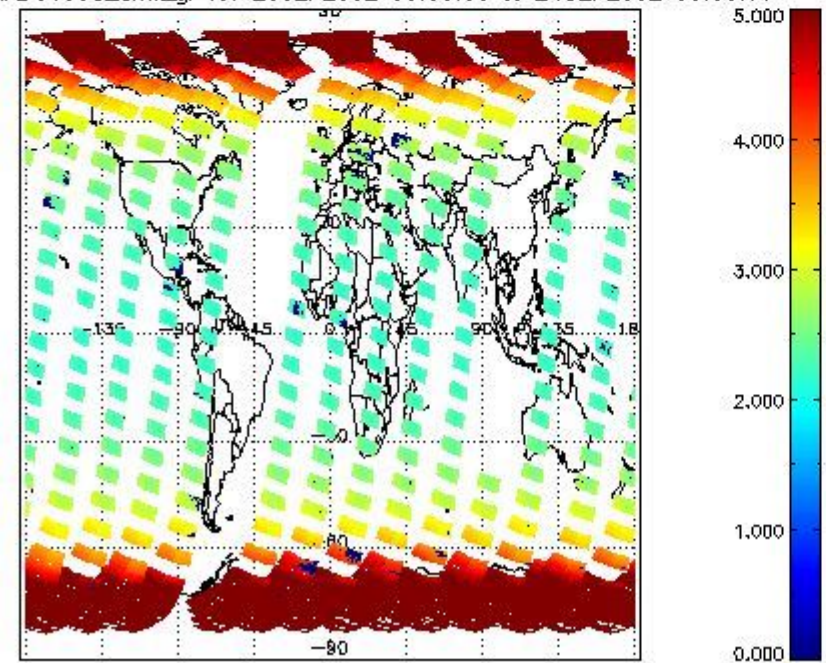
SCIOL2P_NADUV003_vcd for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



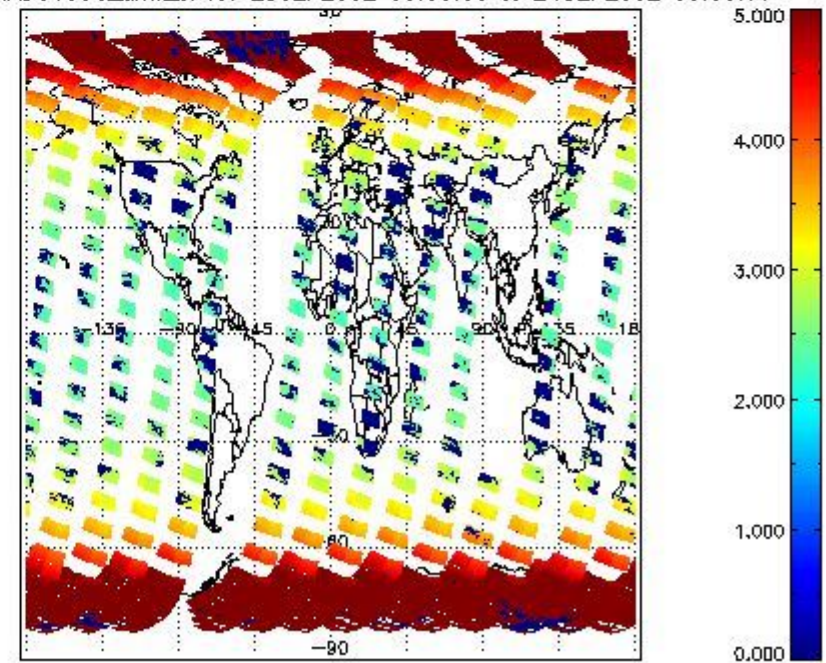
SCIOL2P_NADUV003_vcd_err for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



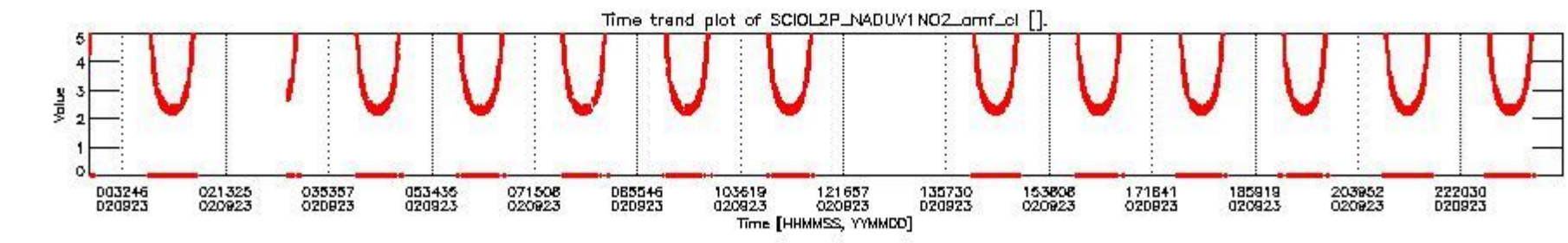
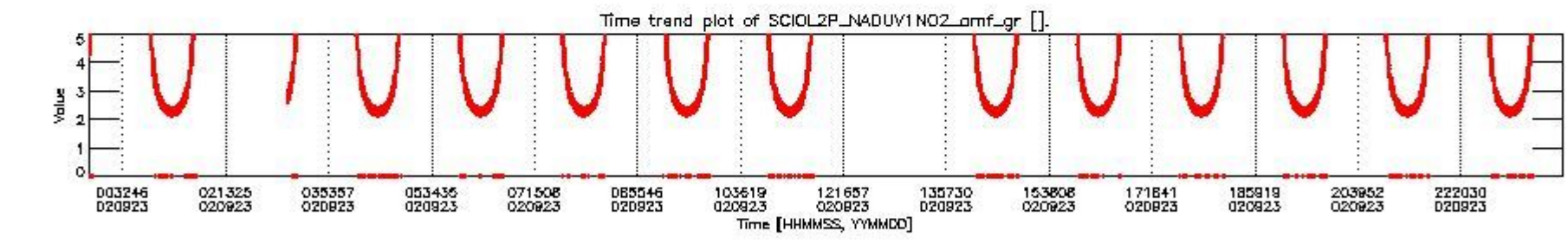
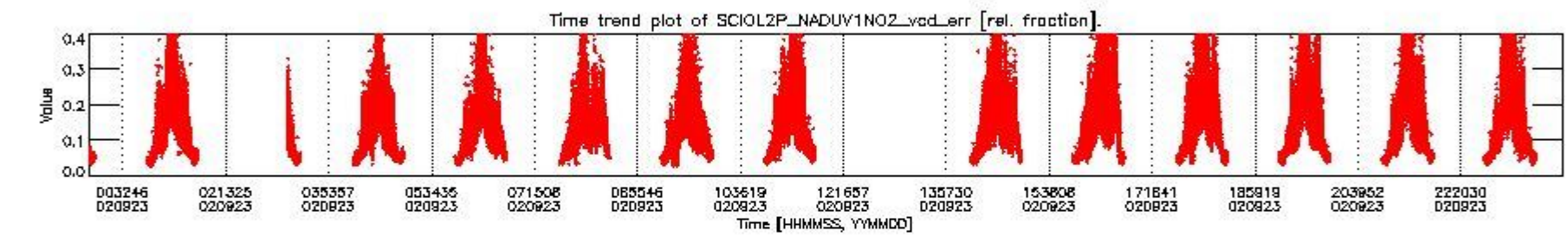
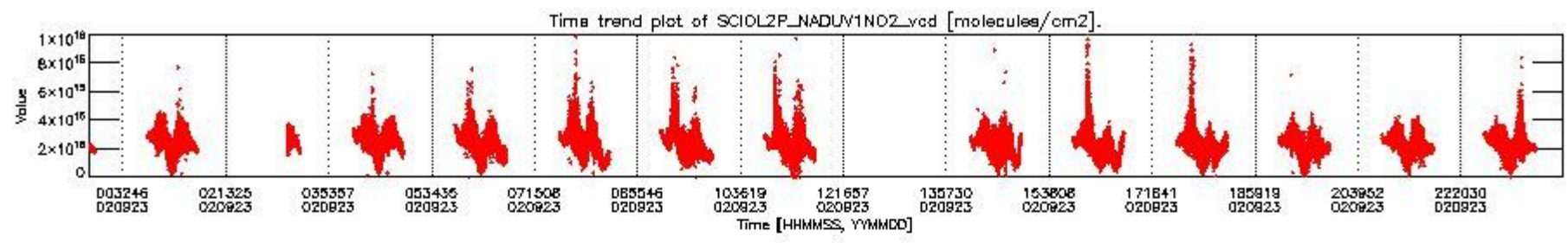
SCIOL2P_NADUV003_amf_gr for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



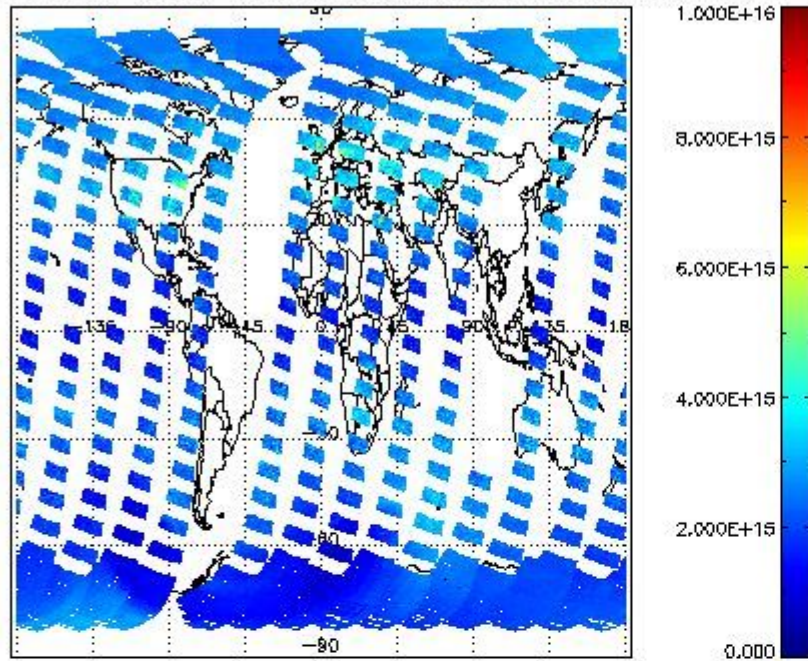
SCIOL2P_NADUV003_amf_cl for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



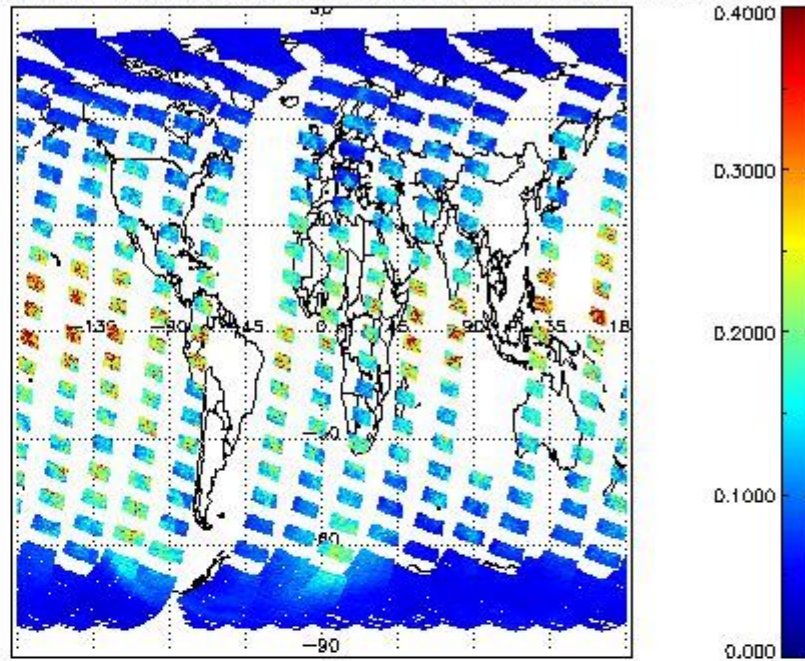
2.2.2.2 NO2 (UV1)



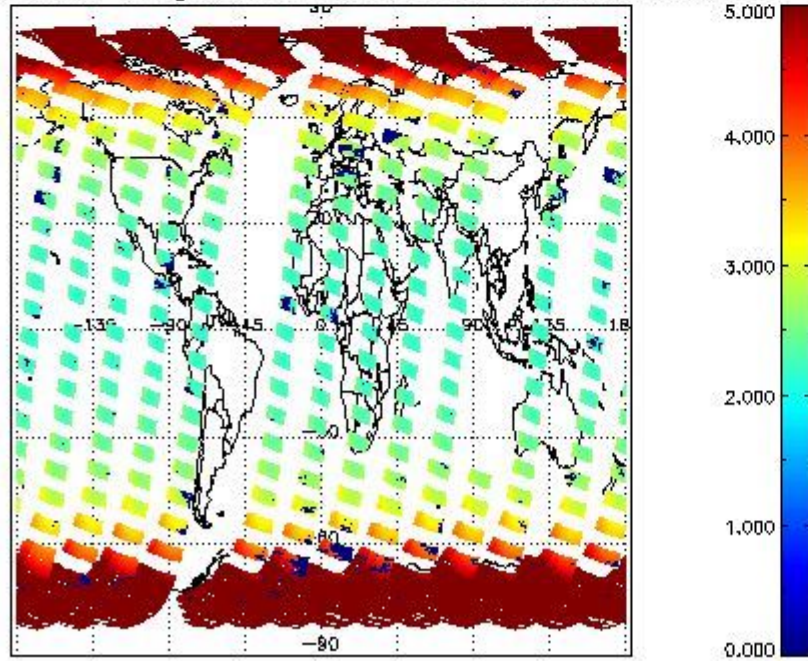
SCIOL2P_NADUV1N02_vcd for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



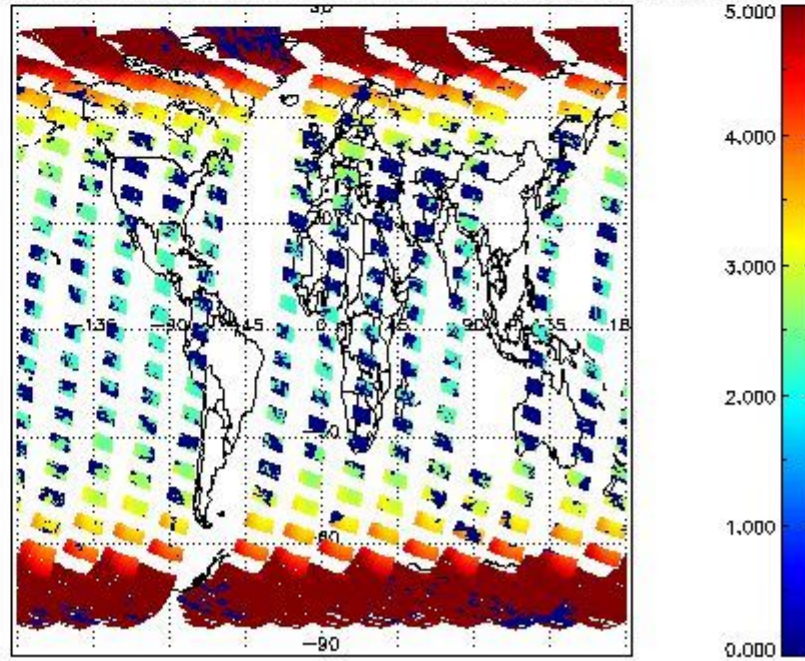
SCIOL2P_NADUV1N02_vcd_err for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



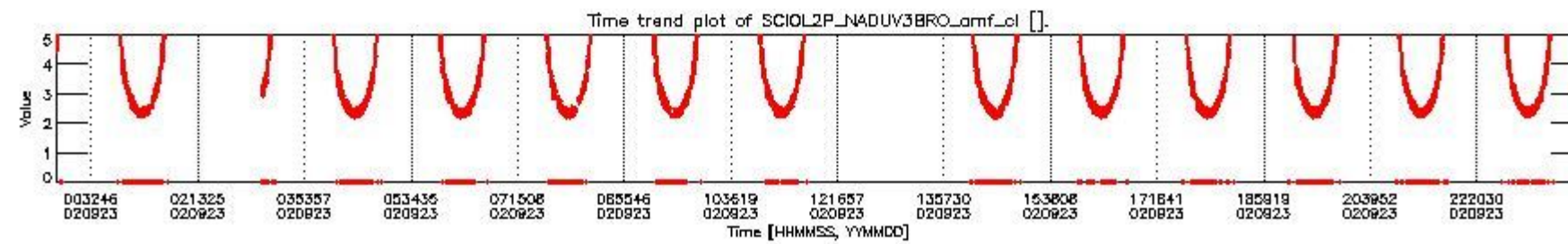
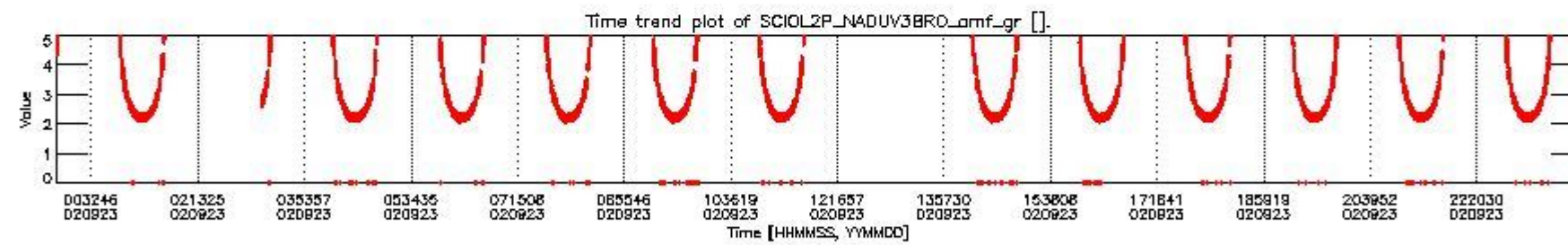
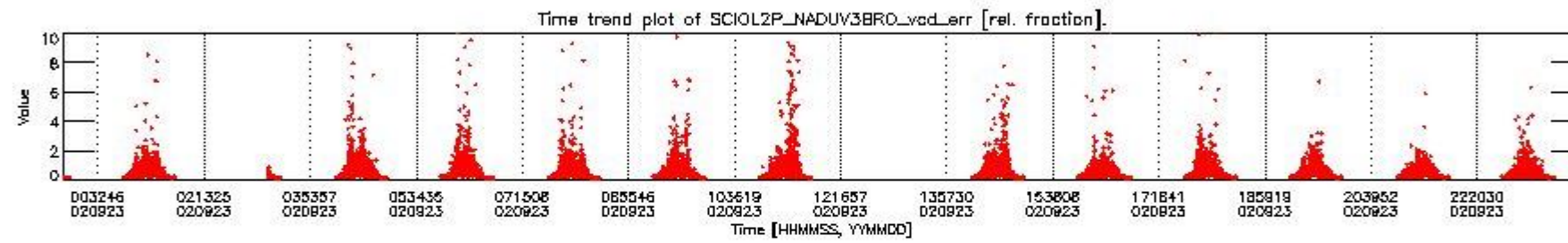
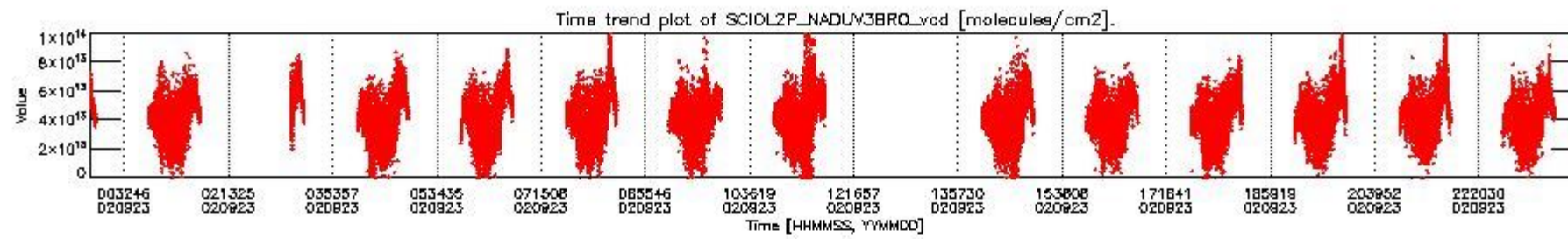
SCIOL2P_NADUV1N02_amf_gr for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



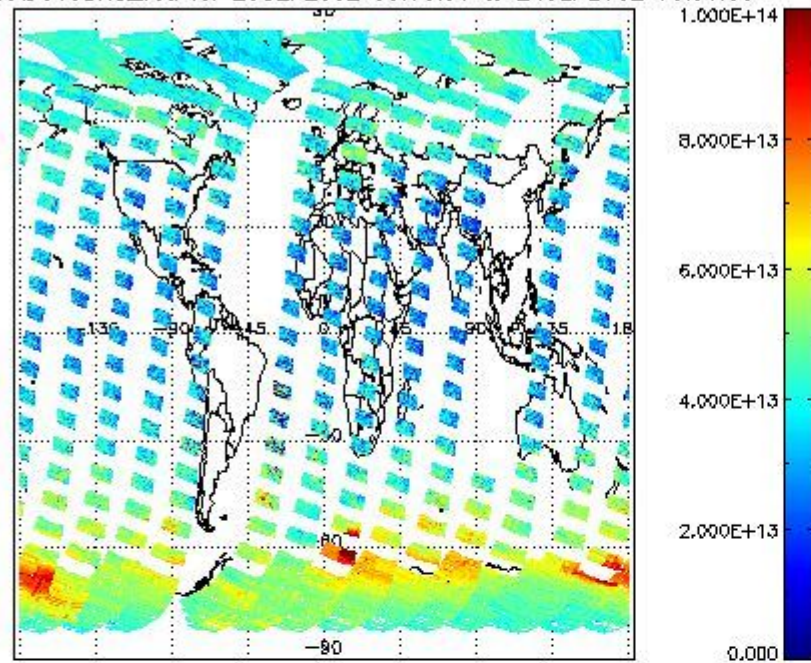
SCIOL2P_NADUV1N02_amf_cl for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



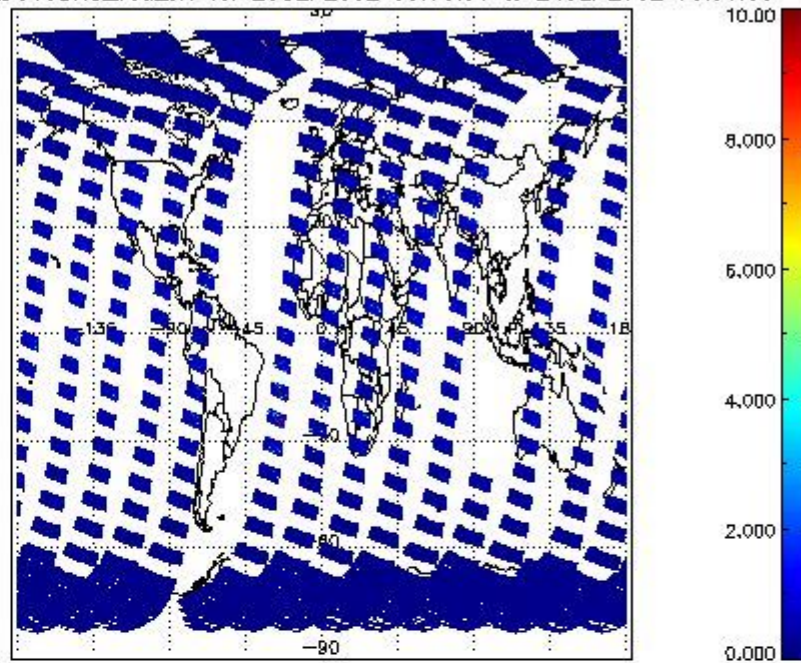
2.2.2.3 BrO (UV3)



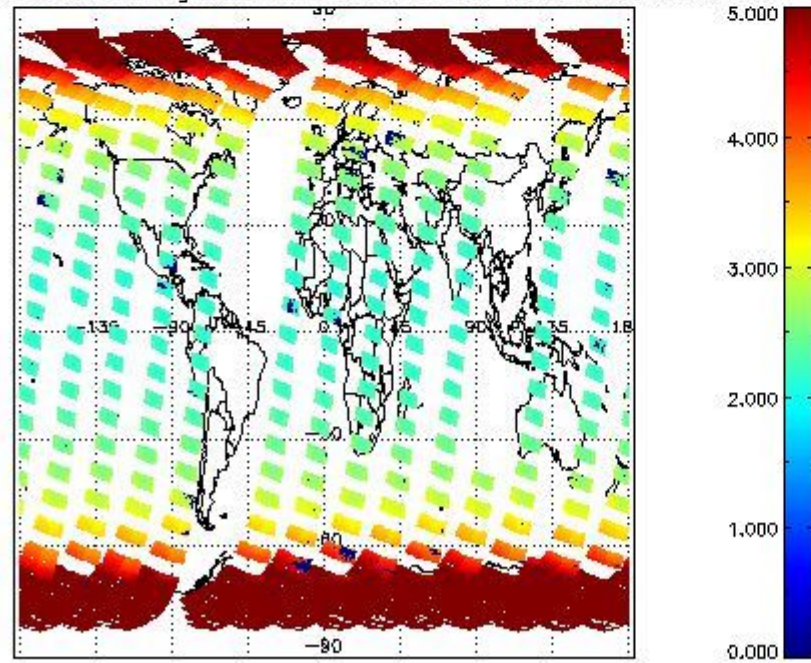
SCIOL2P_NADUV3BRO_vcd for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



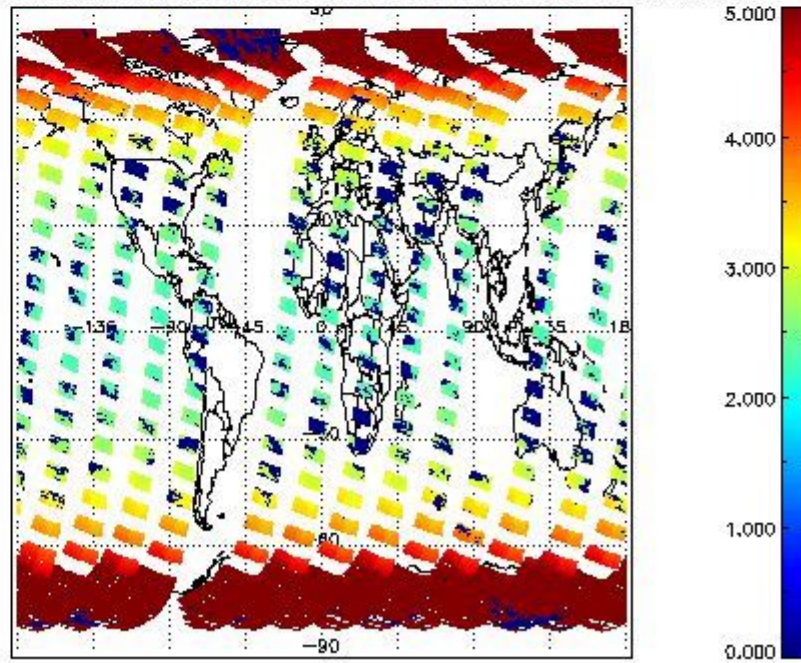
SCIOL2P_NADUV3BRO_vcd_err for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



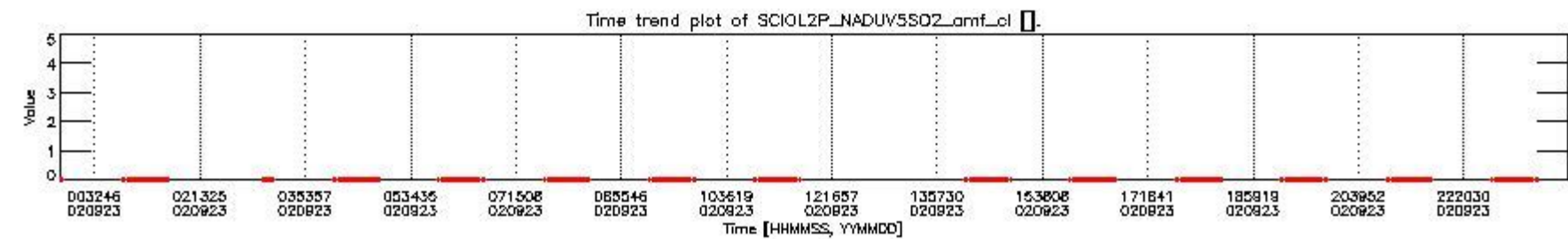
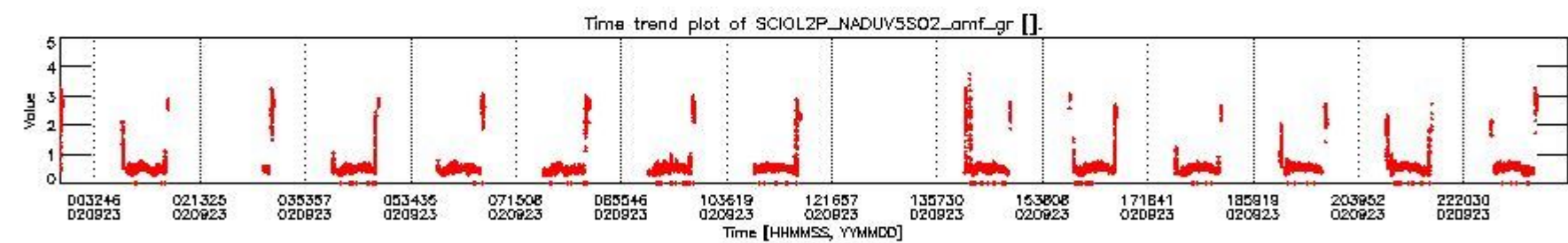
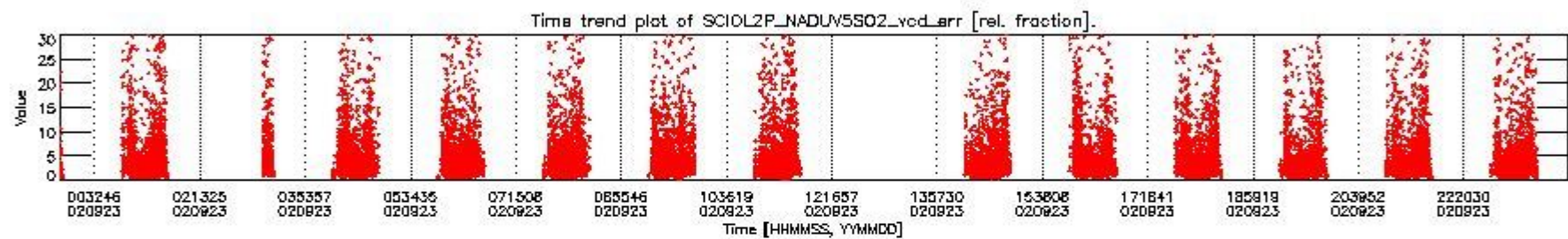
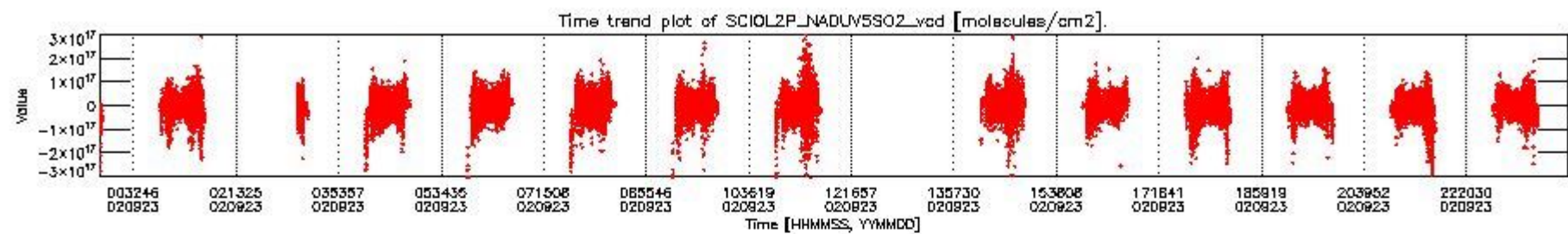
SCIOL2P_NADUV3BRO_amf_gr for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



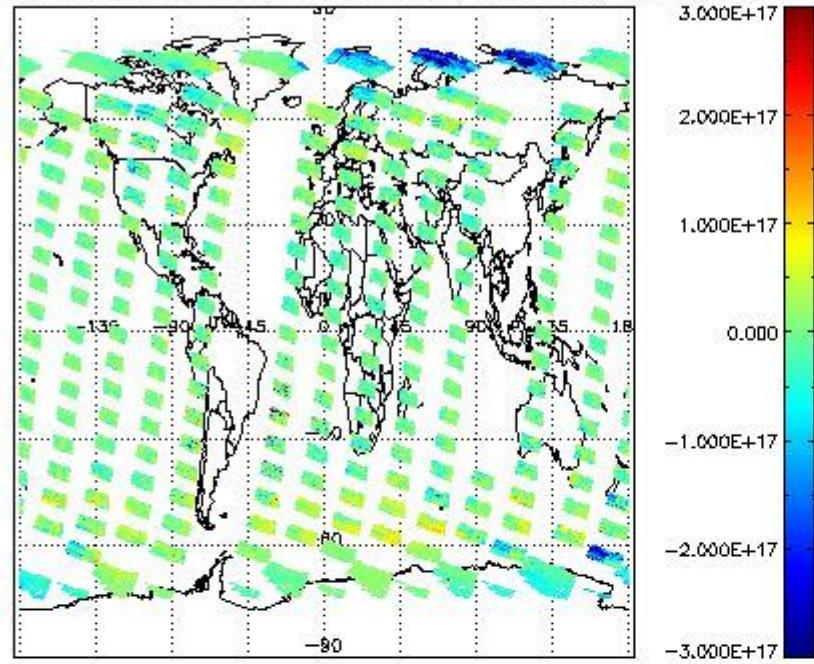
SCIOL2P_NADUV3BRO_amf_cl for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



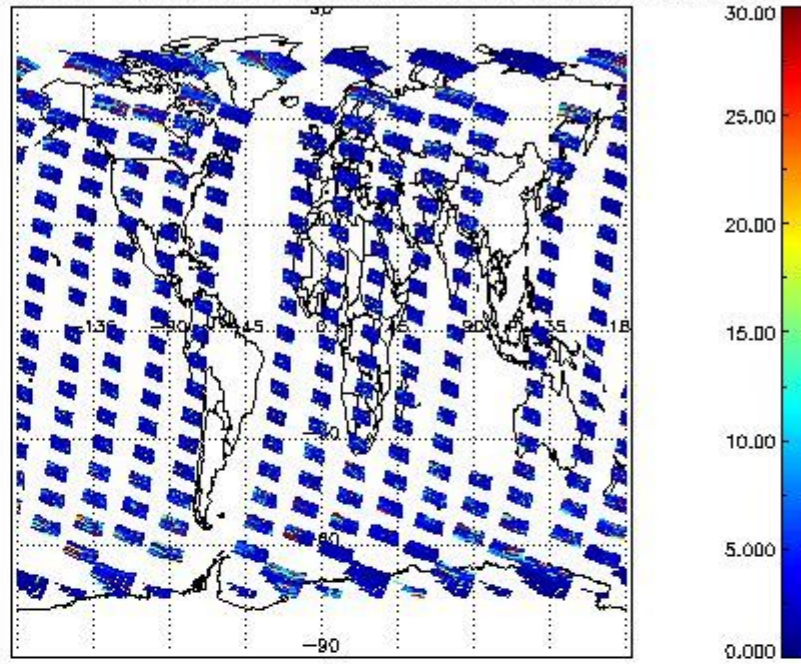
2.2.2.4 SO2 (UV5)



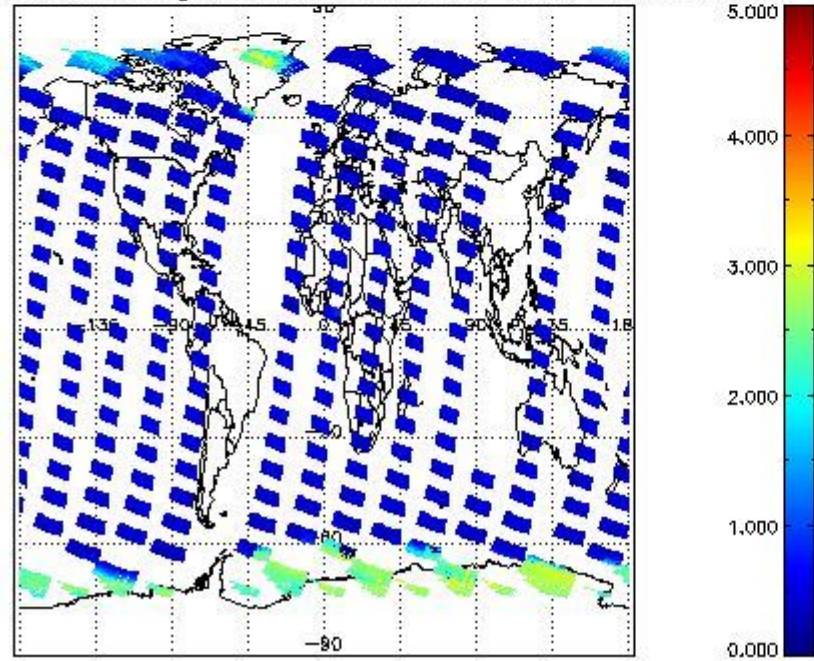
SCIOL2P_NADUV5S02_vcd for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



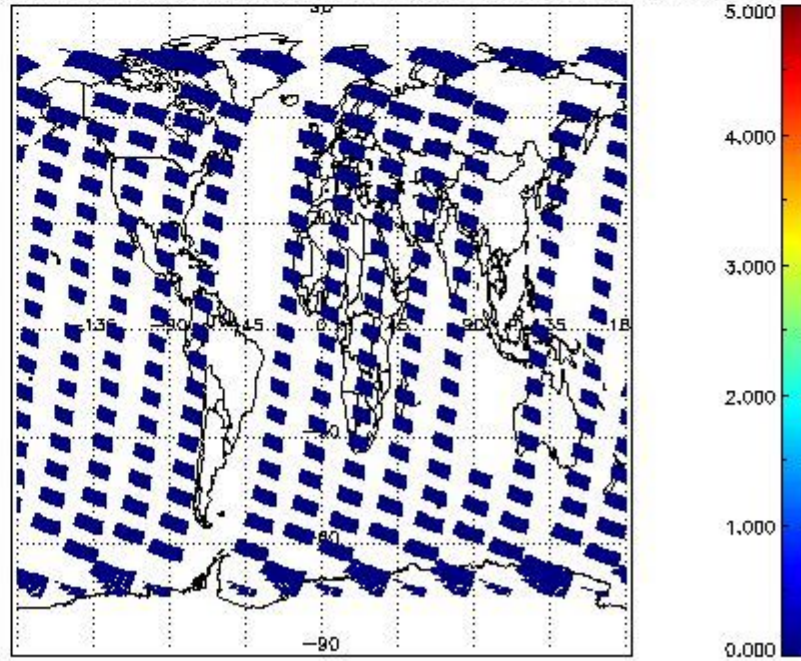
SCIOL2P_NADUV5S02_vcd_err for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



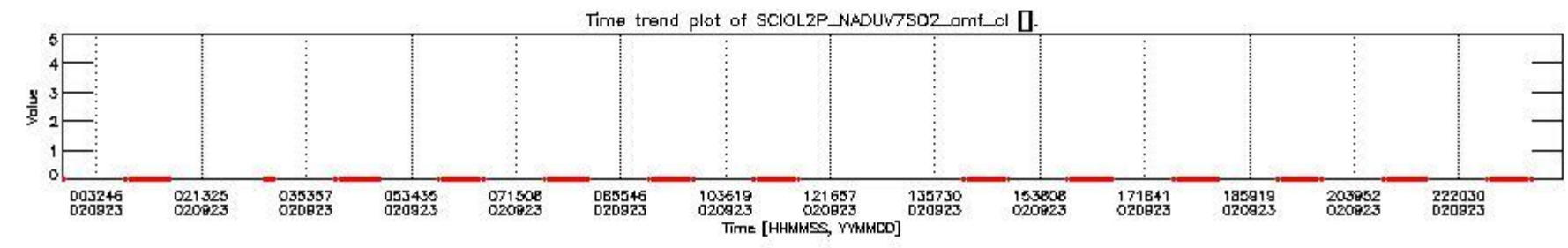
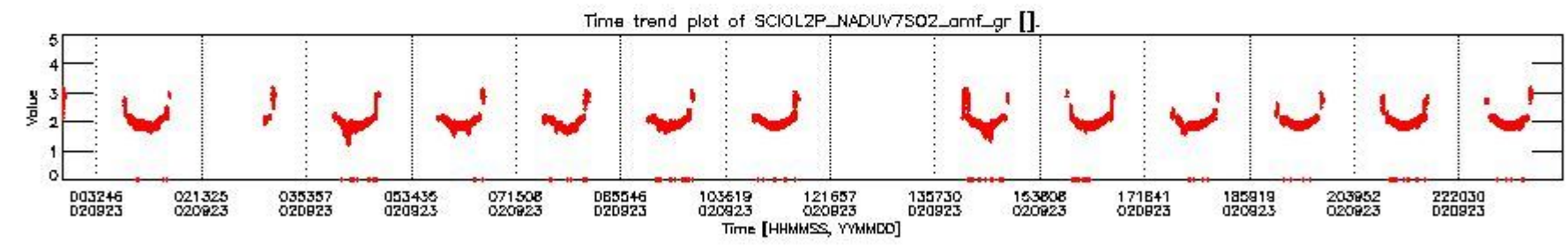
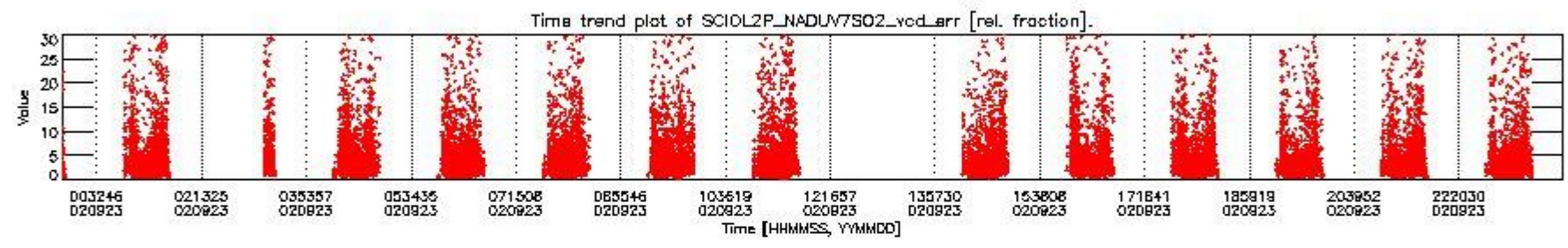
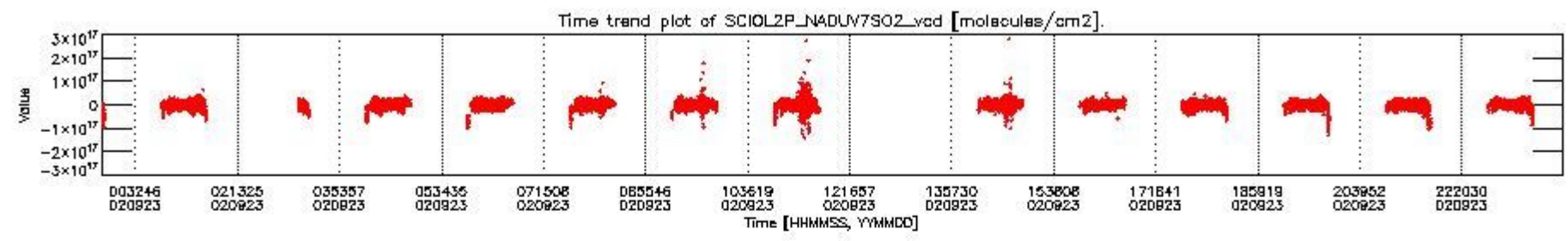
SCIOL2P_NADUV5S02_amf_gr for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



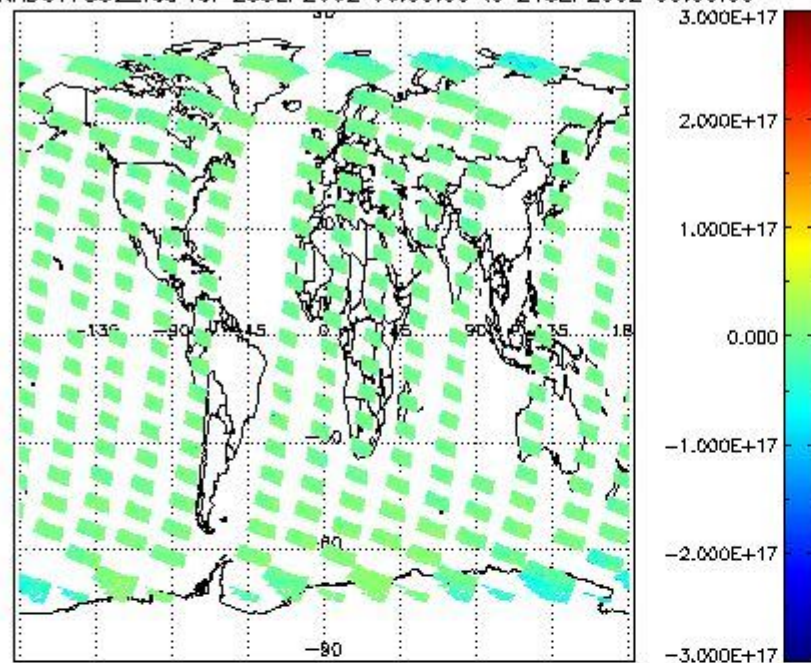
SCIOL2P_NADUV5S02_amf_cl for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



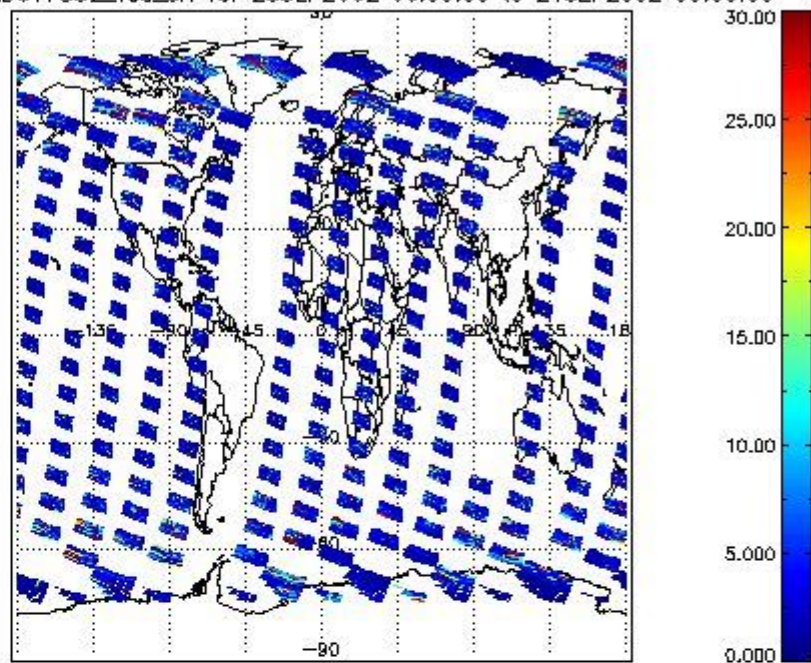
2.2.2.5 SO2 (UV7)



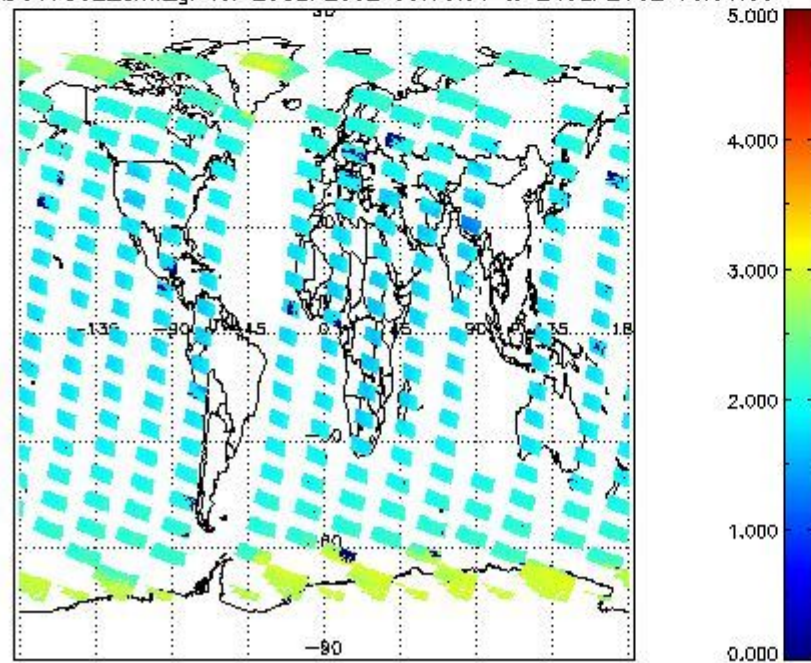
SCIOL2P_NADUV7S02_vcd for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



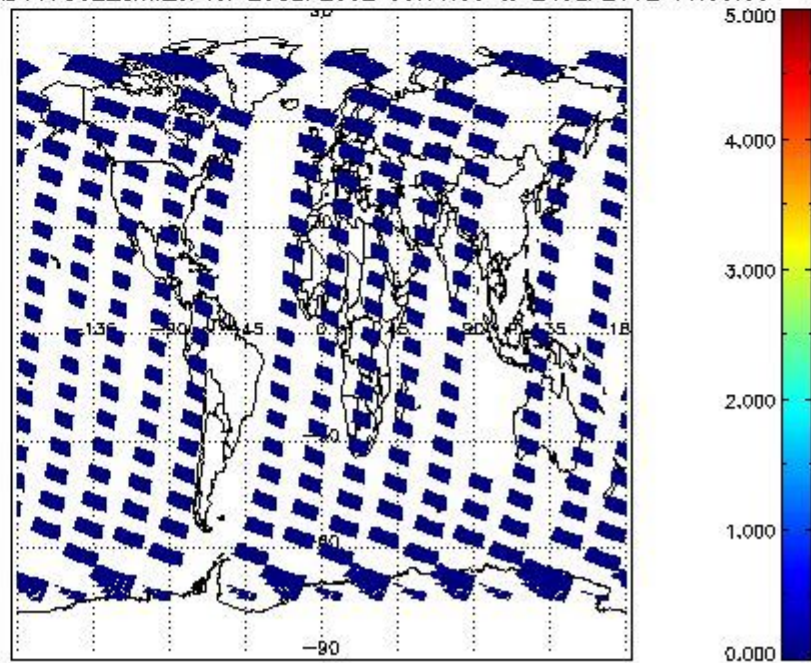
SCIOL2P_NADUV7S02_vcd_err for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



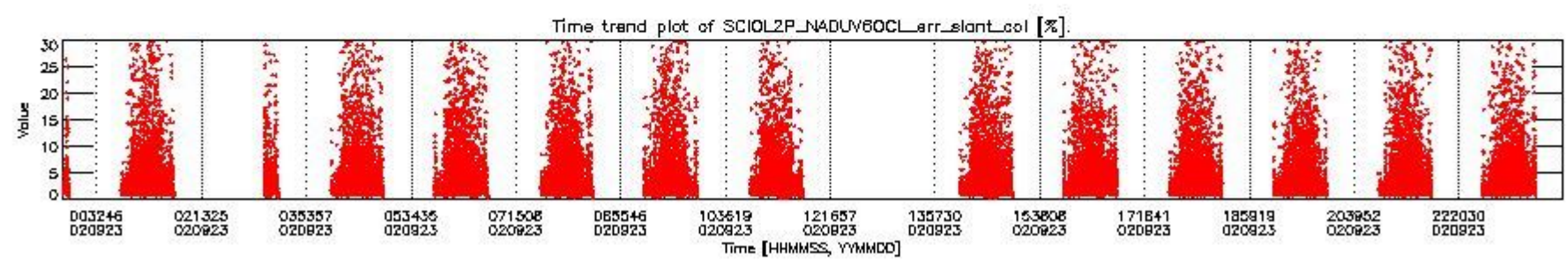
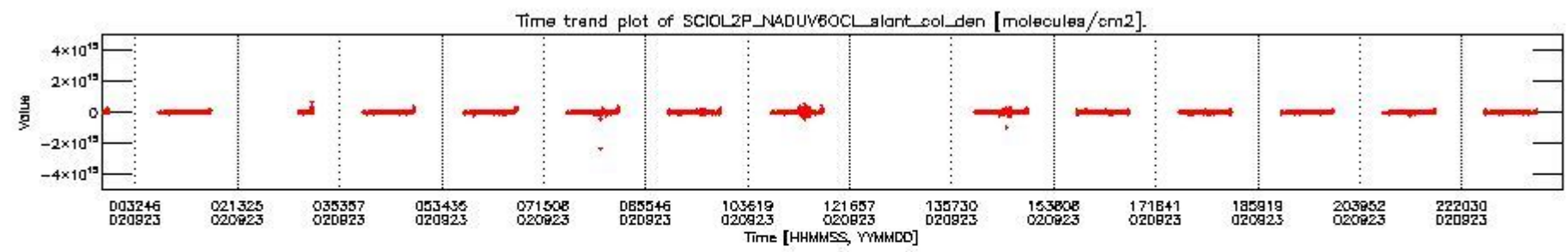
SCIOL2P_NADUV7S02_amf_gr for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



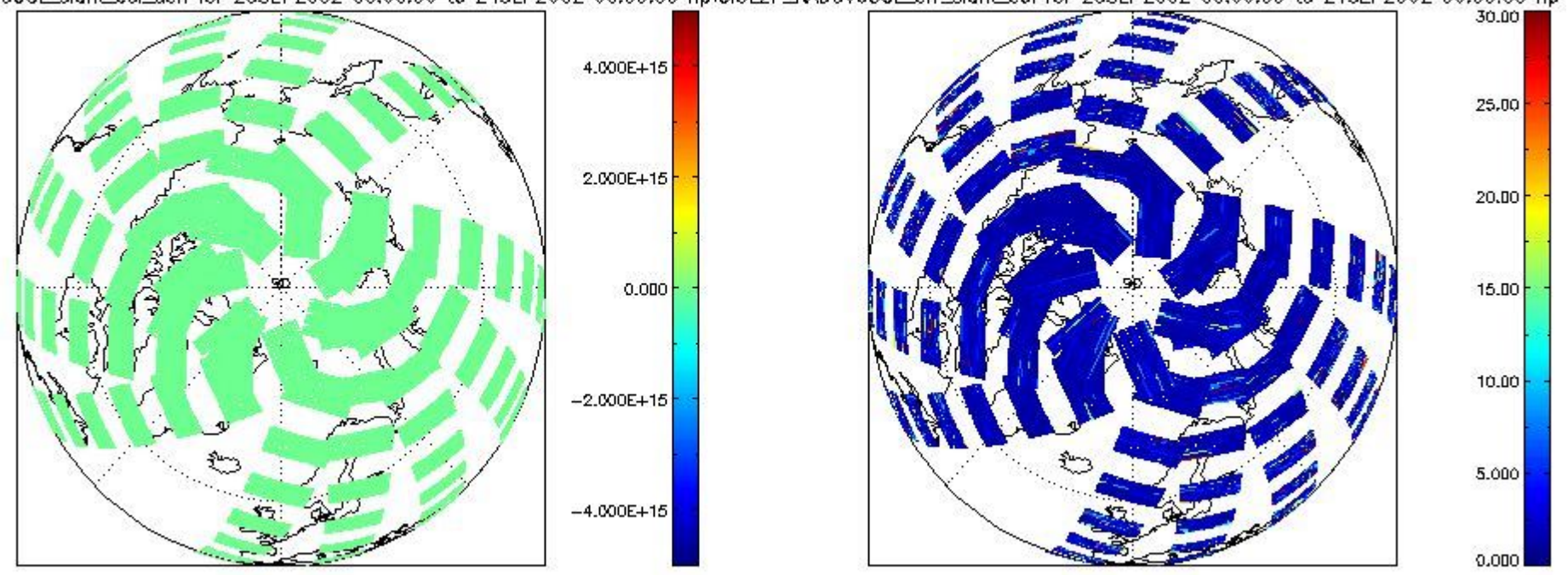
SCIOL2P_NADUV7S02_amf_cl for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



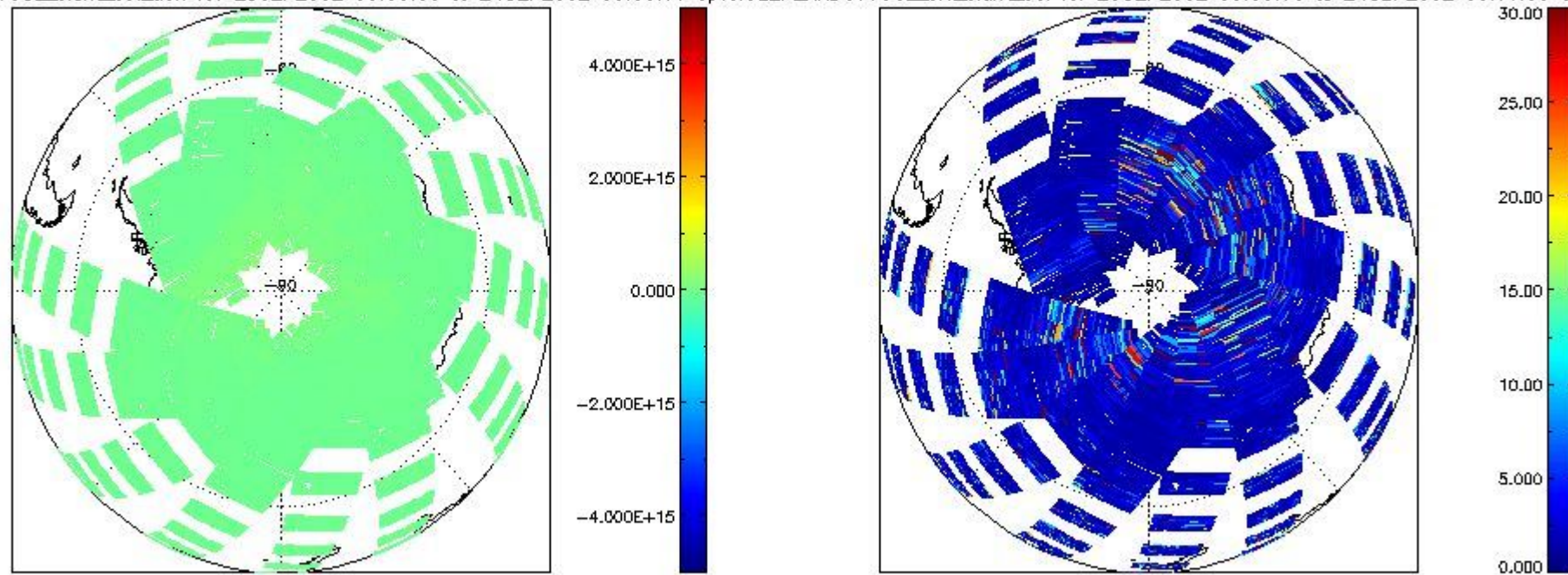
2.2.2.6 OCIO (UV6)



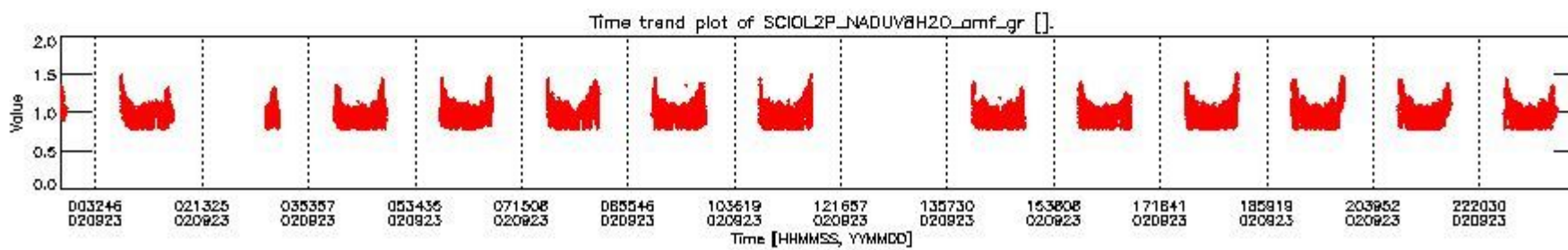
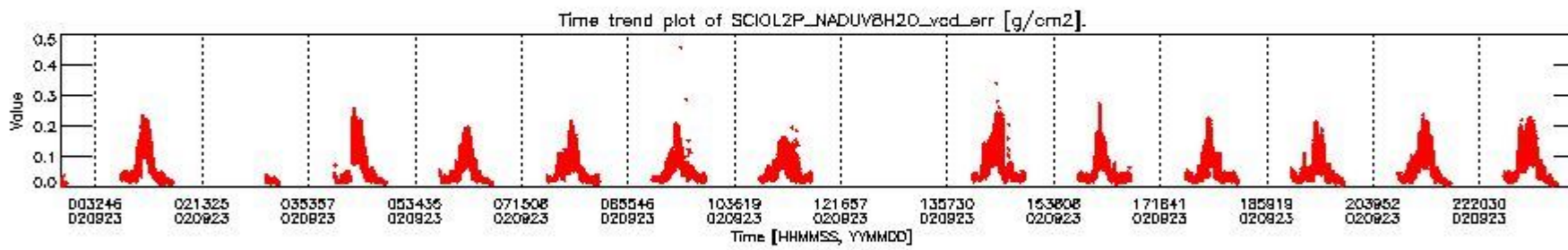
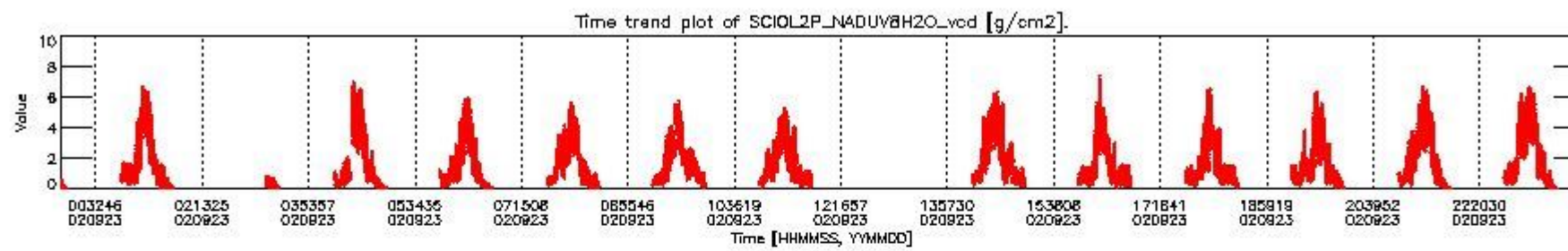
CIOL2P_NADUV60CLslant_col_den for 23SEP2002 00:00:00 to 24SEP2002 00:00:00 np | CIOL2P_NADUV60CLerr_slant_col for 23SEP2002 00:00:00 to 24SEP2002 00:00:00 np



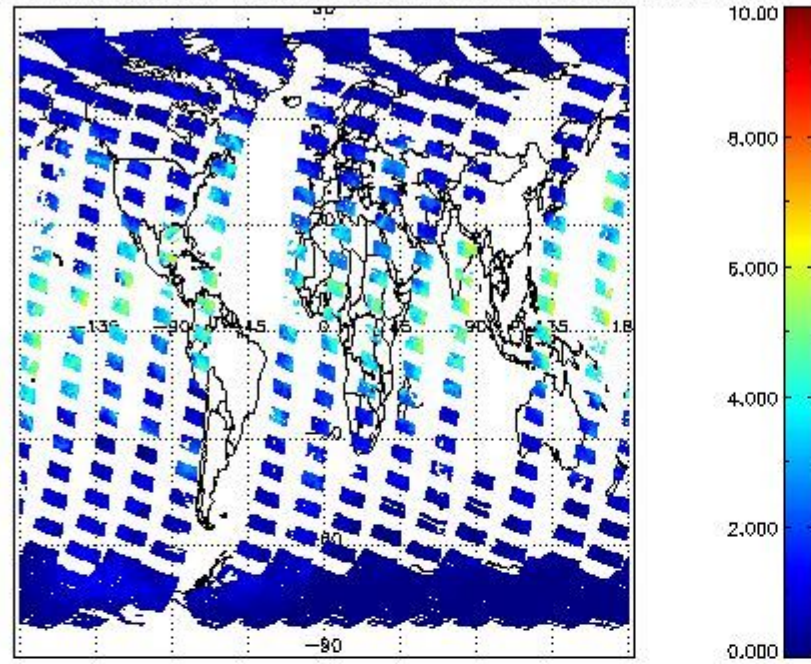
CIOL2P_NADUV60CL_slant_col_den for 23SEP2002 00:00:00 to 24SEP2002 00:00:00 sp CIOL2P_NADUV60CL_err_slant_col for 23SEP2002 00:00:00 to 24SEP2002 00:00:00 sp



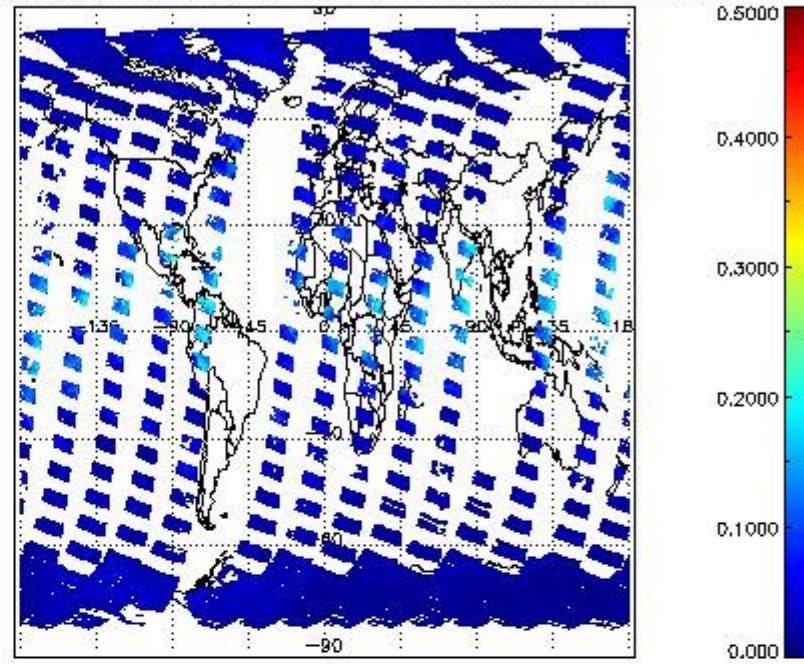
2.2.2.7 H2O (UV8)



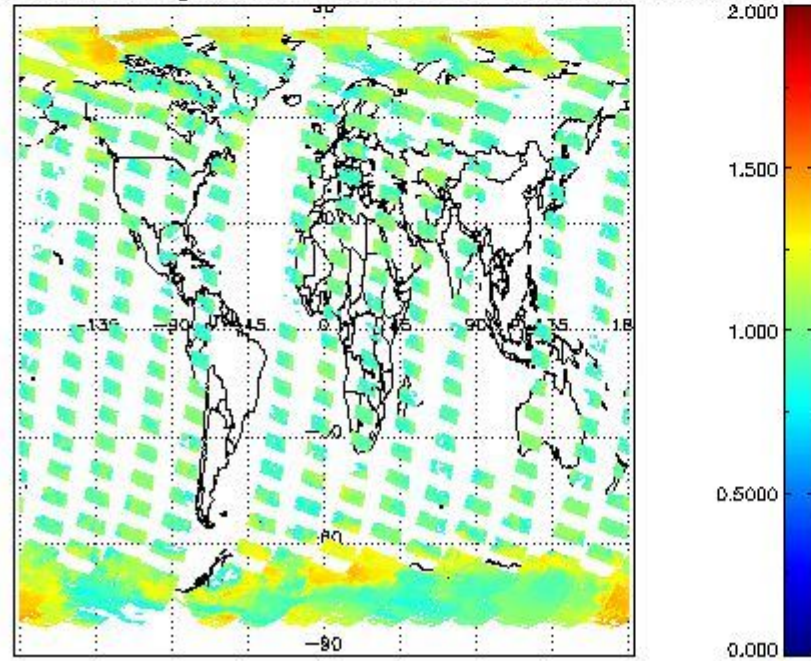
SCIOL2P_NADUV8H2O_vcd for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



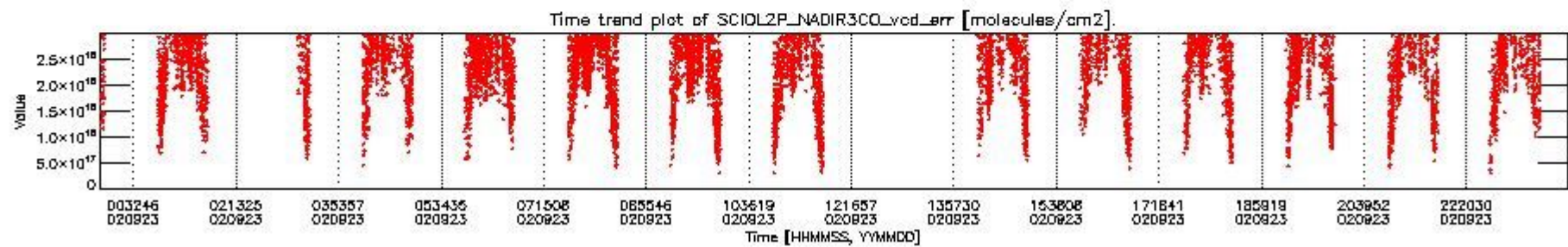
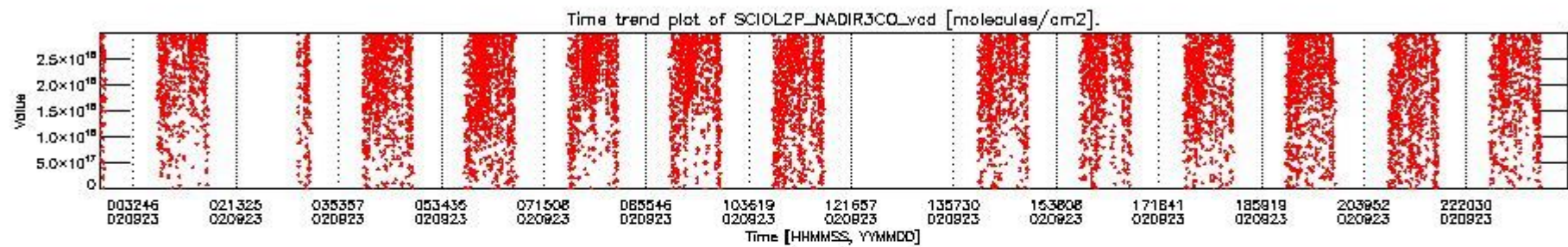
SCIOL2P_NADUV8H2O_vcd_err for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



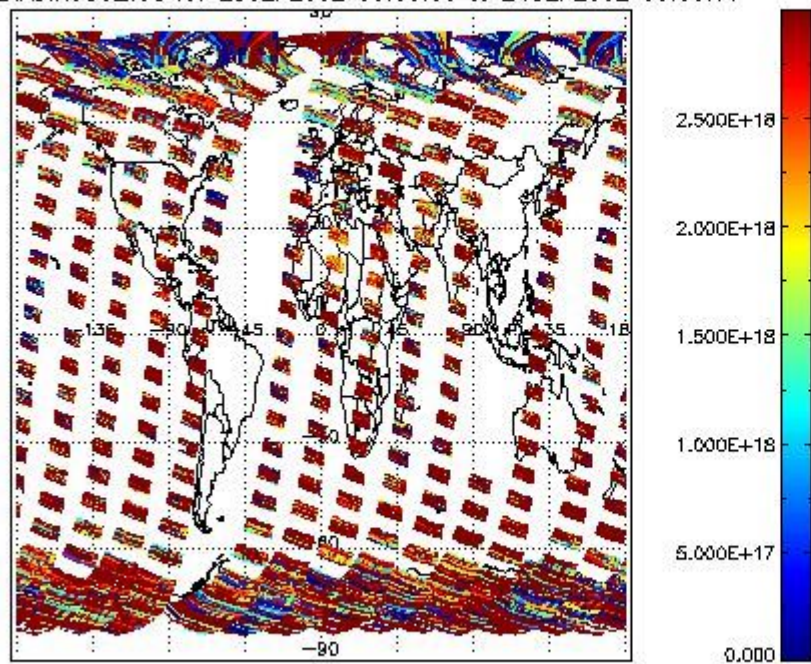
SCIOL2P_NADUV8H2O_arnf_gr for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



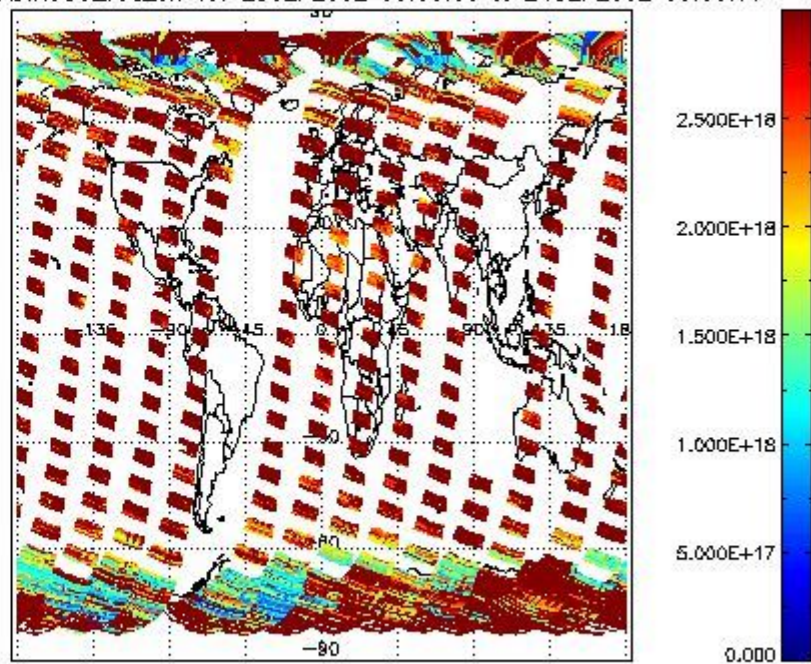
2.2.2.8 CO (IR3)



SCIO2P_NADIR3CO_vcd for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



SCIO2P_NADIR3CO_vcd_err for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



2.2.3 Limb

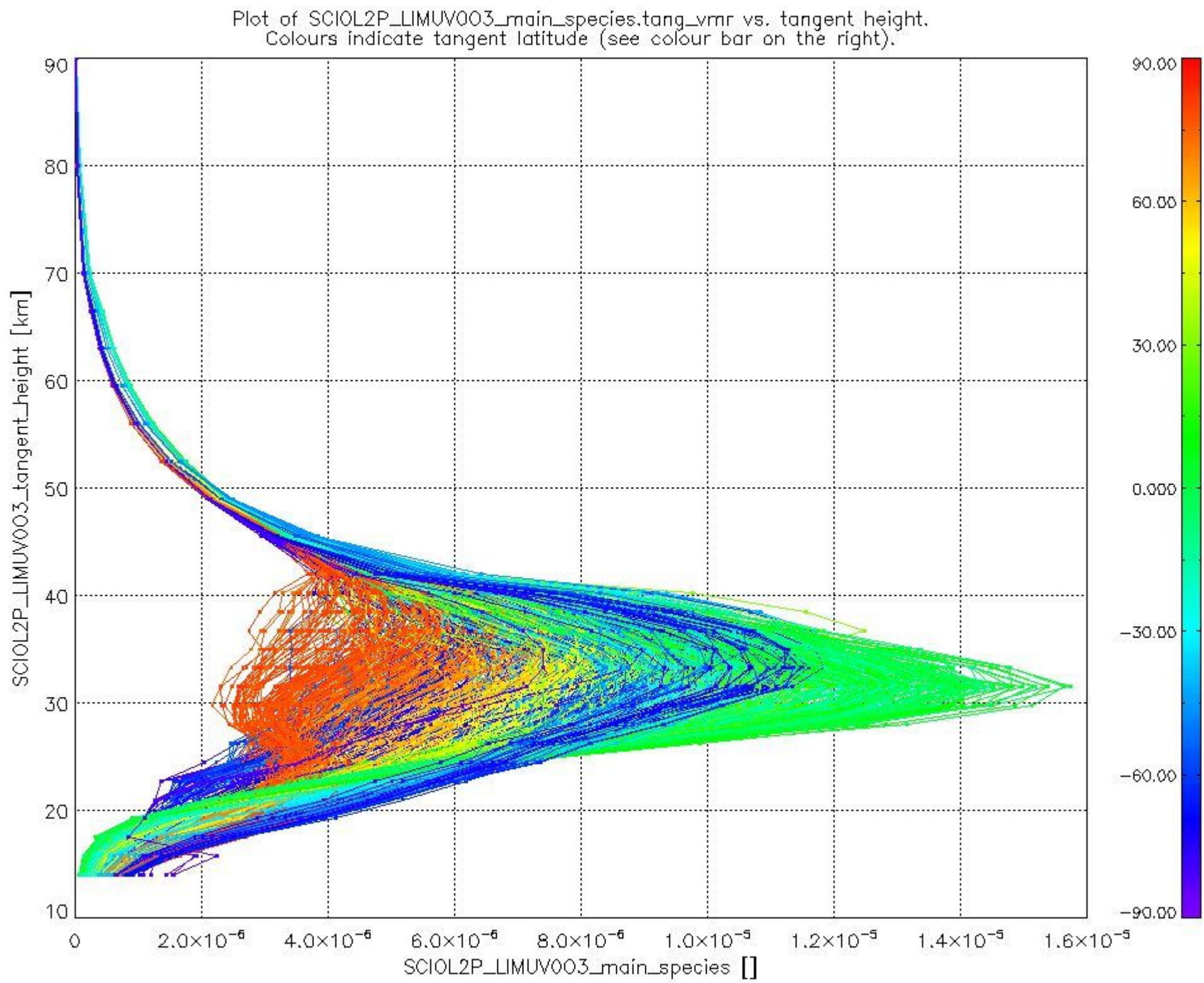
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

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

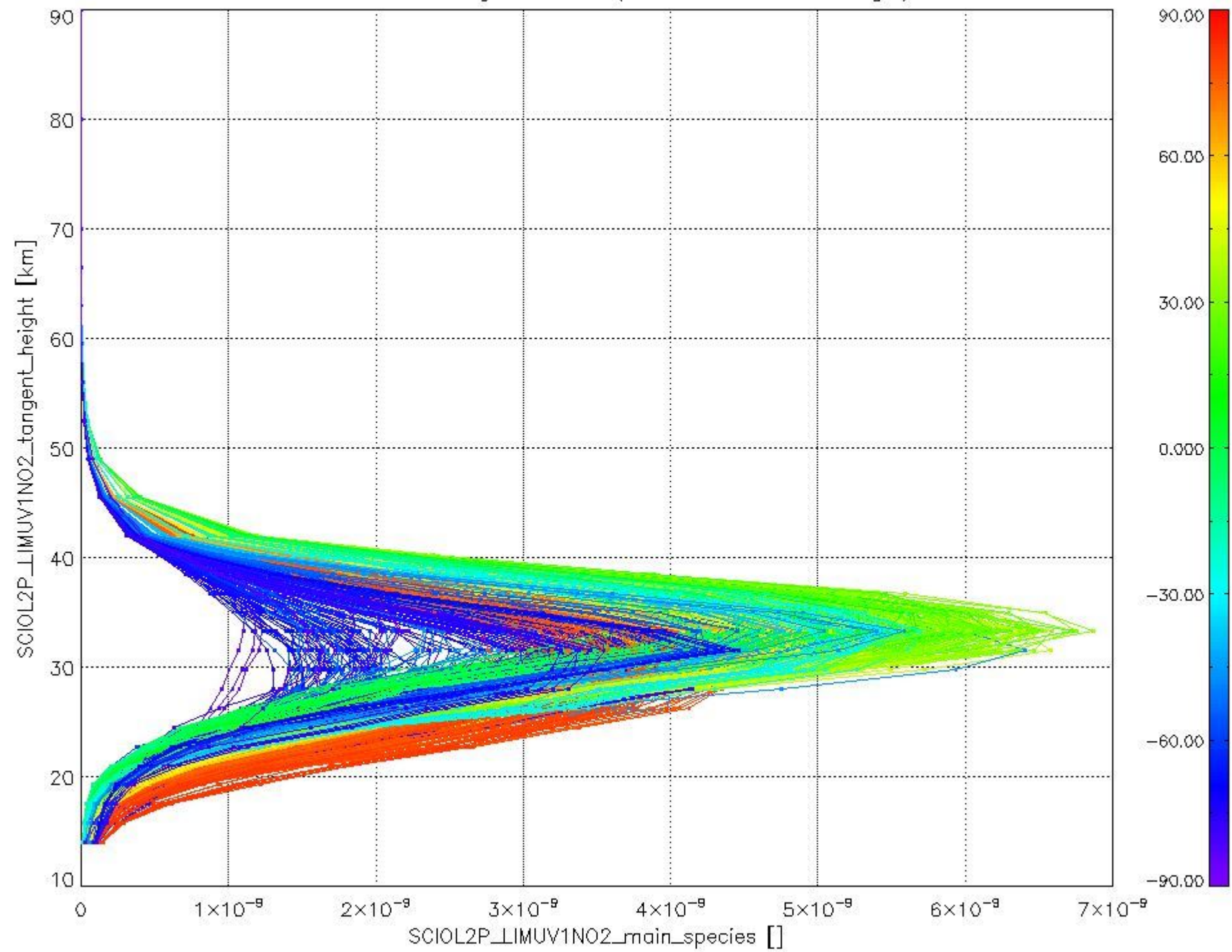
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



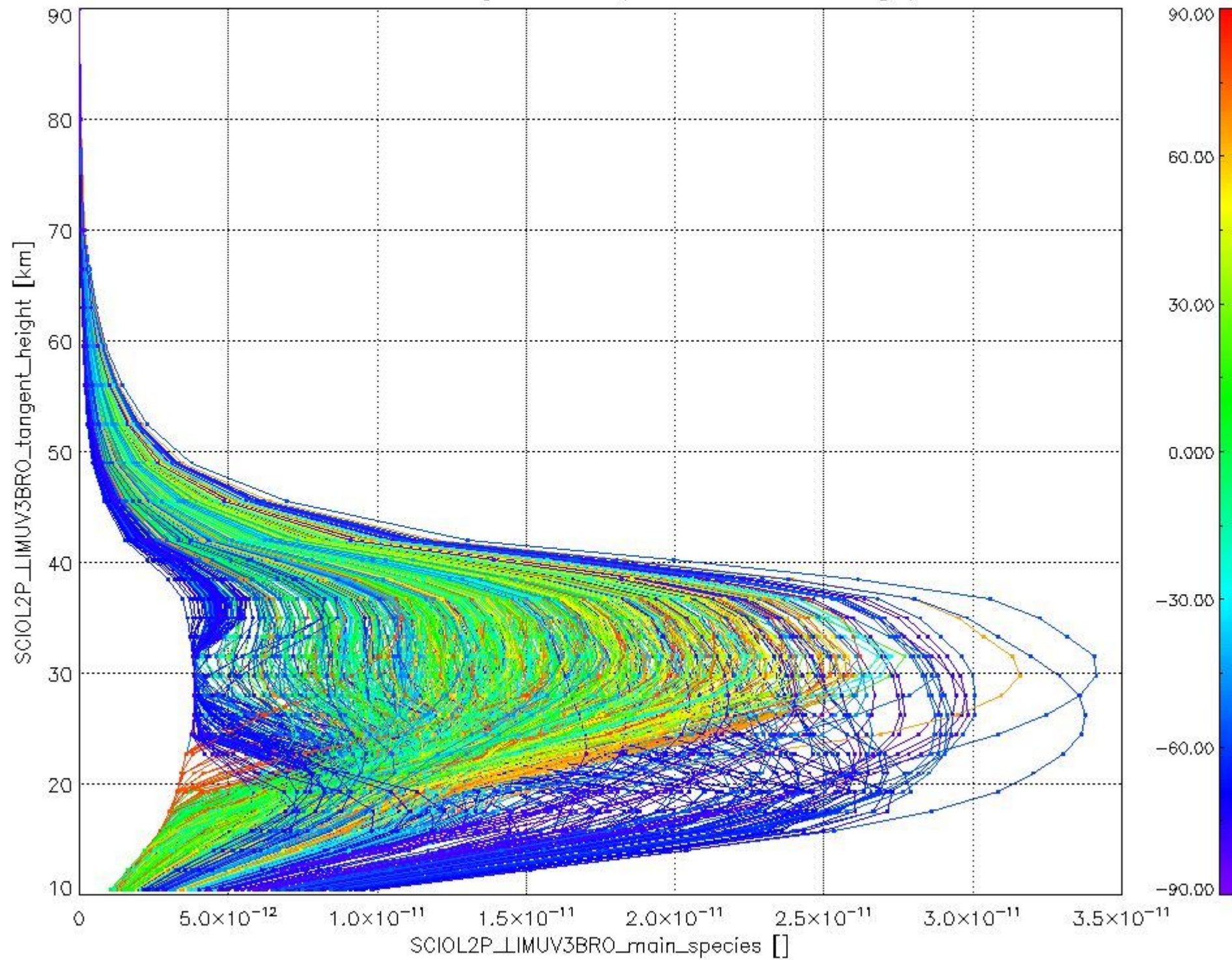
2.2.3.2 NO2 (UV1)

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)

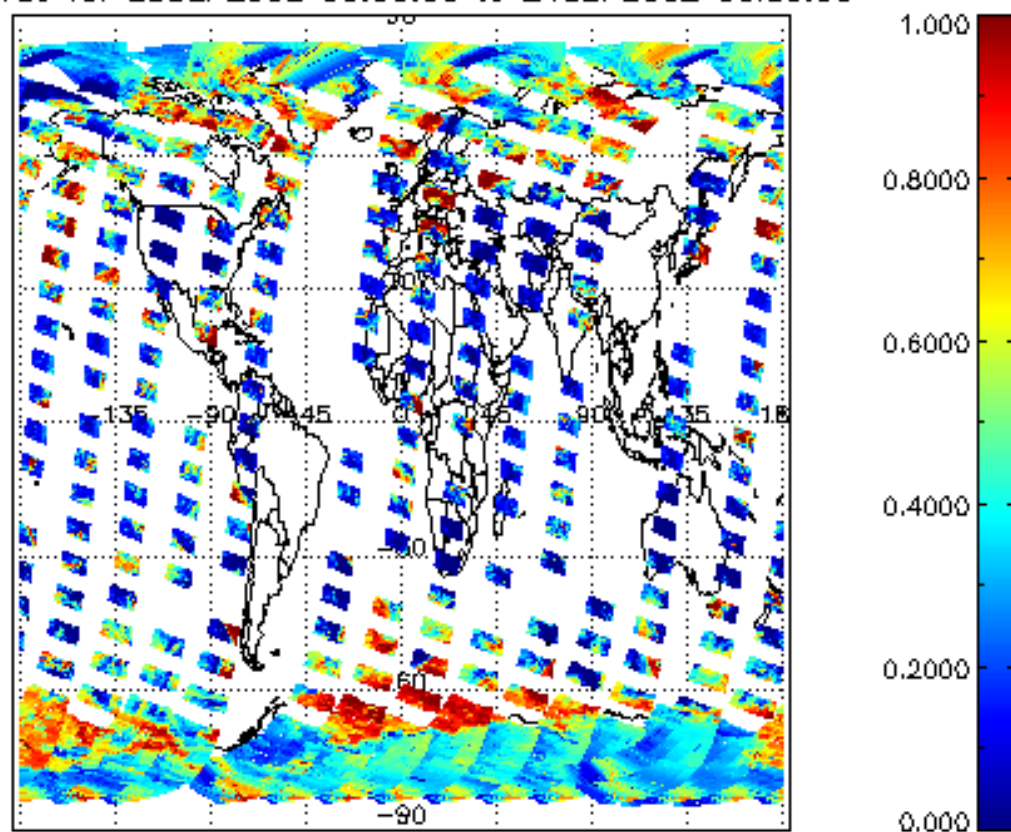
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



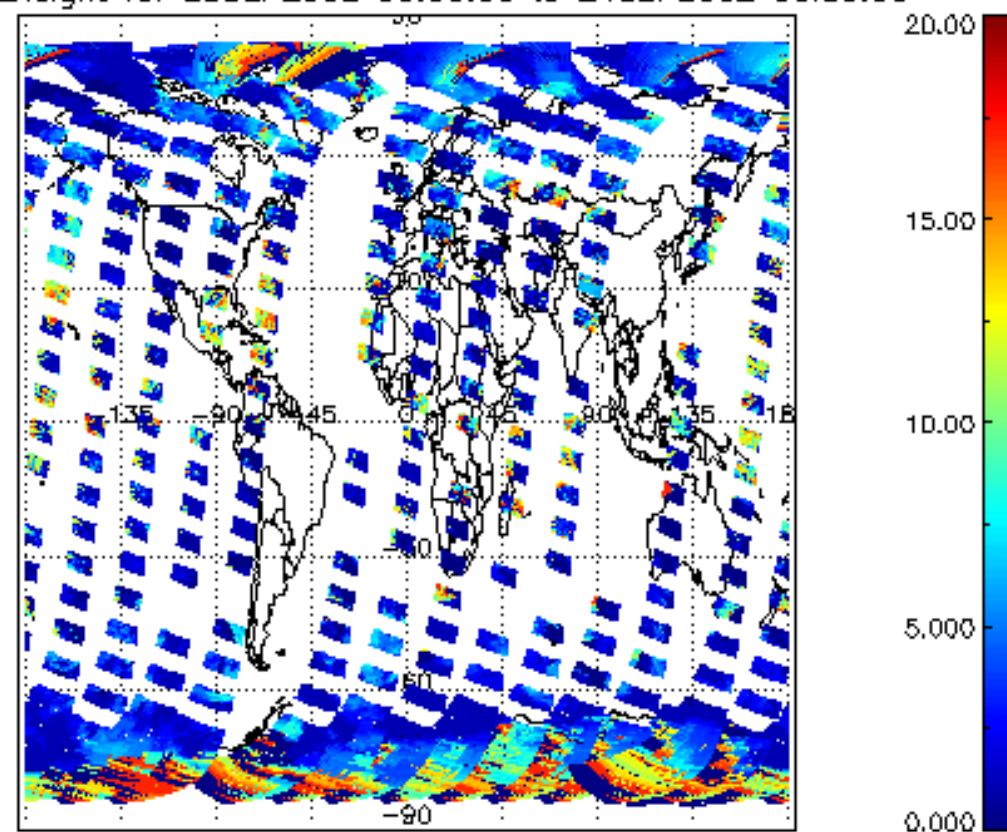
2.3 ADF monitoring

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_135001_20020922_155849_20020924_155849
3	SCI_MF1_AXNIEC20100218_135103_20020923_170748_20020925_170748

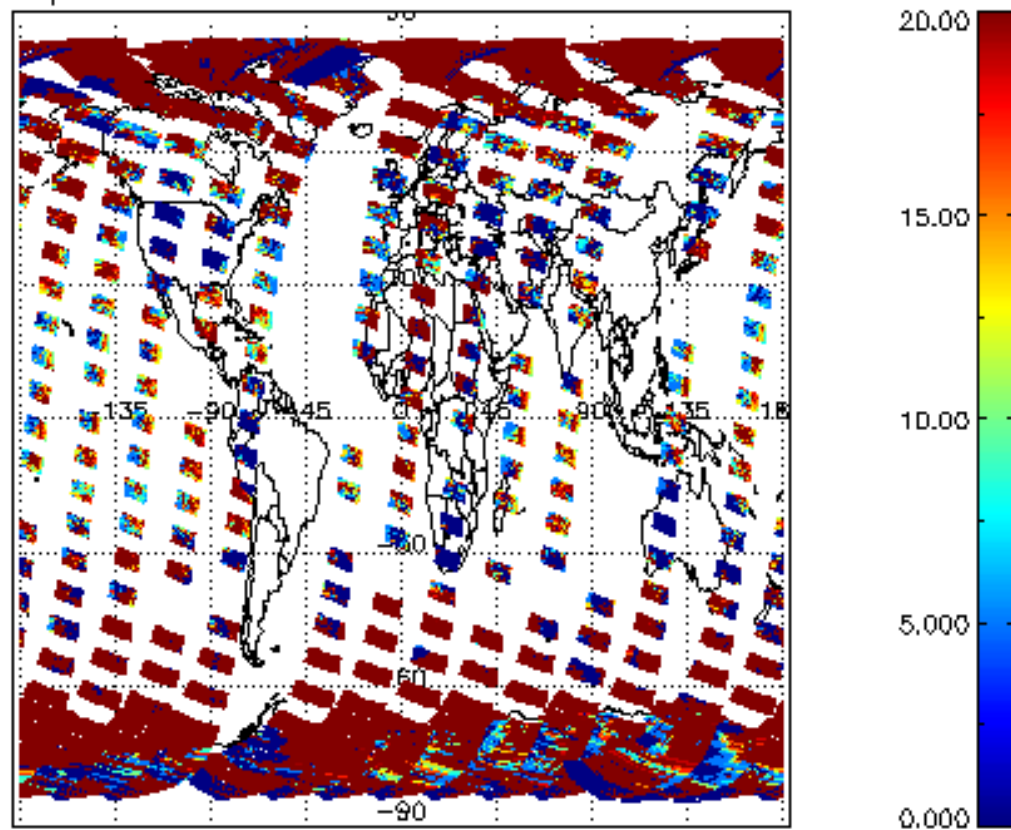
cl_frac for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



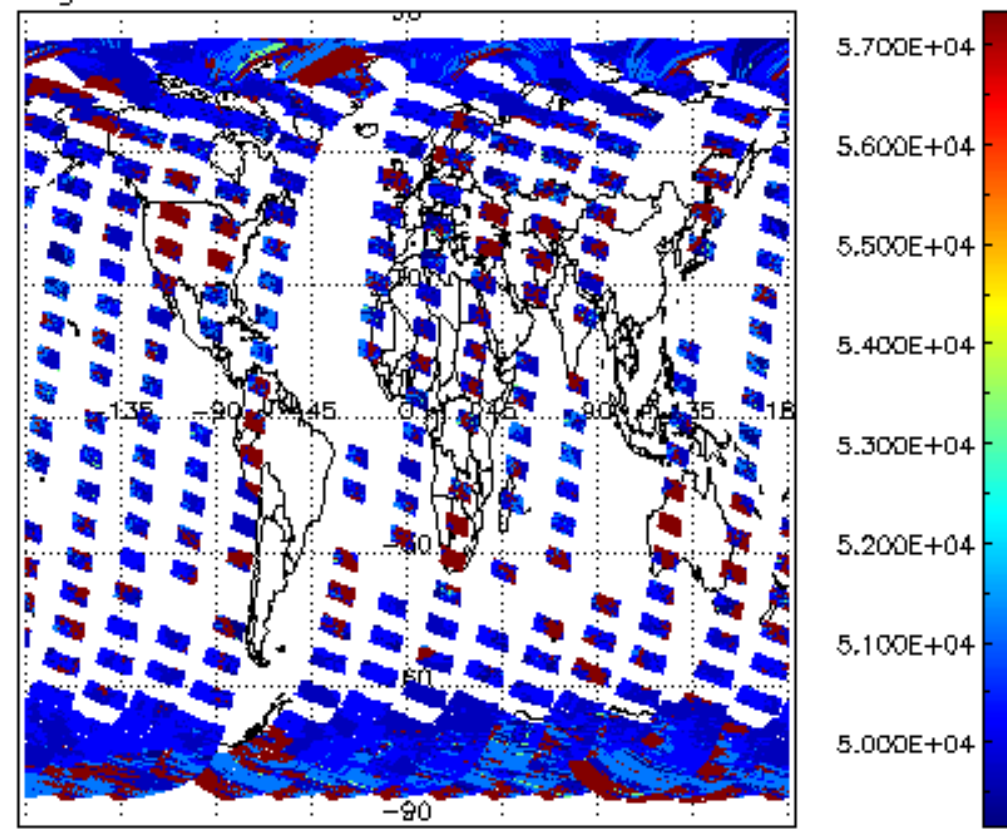
cl_top_height for 23SEP2002 00:00:00 to 24SEP2002 00:00:00

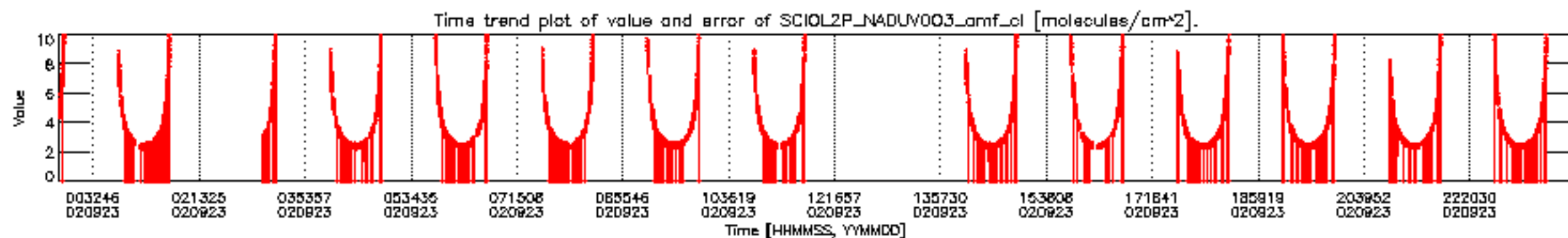
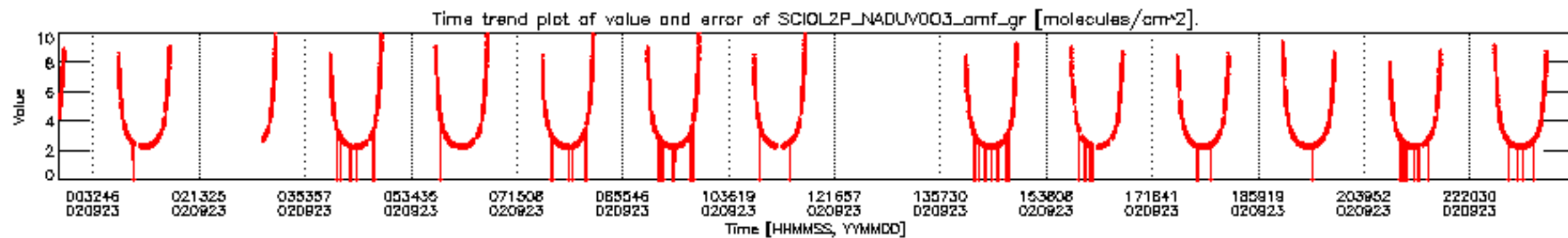
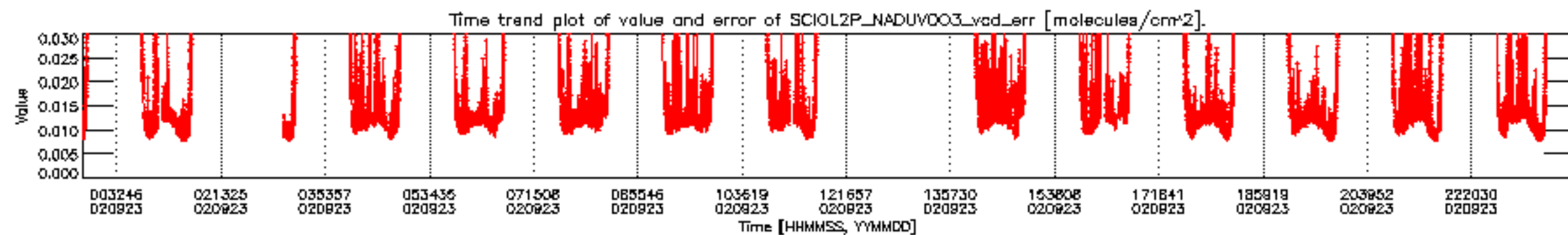
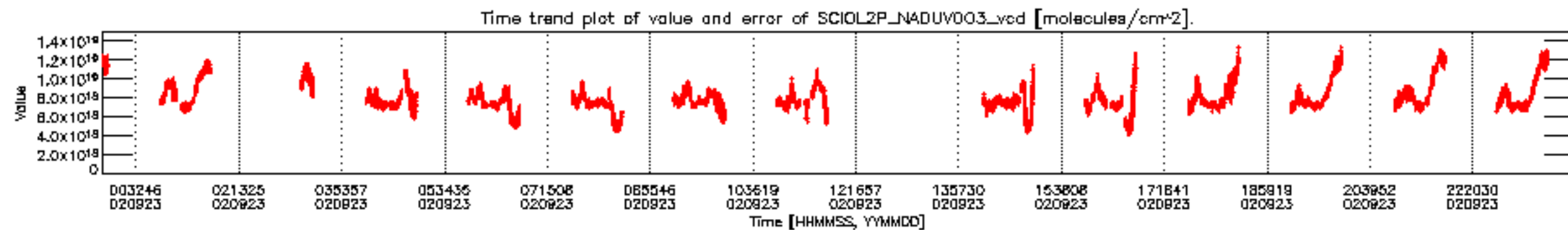


cl_opt_depth for 23SEP2002 00:00:00 to 24SEP2002 00:00:00

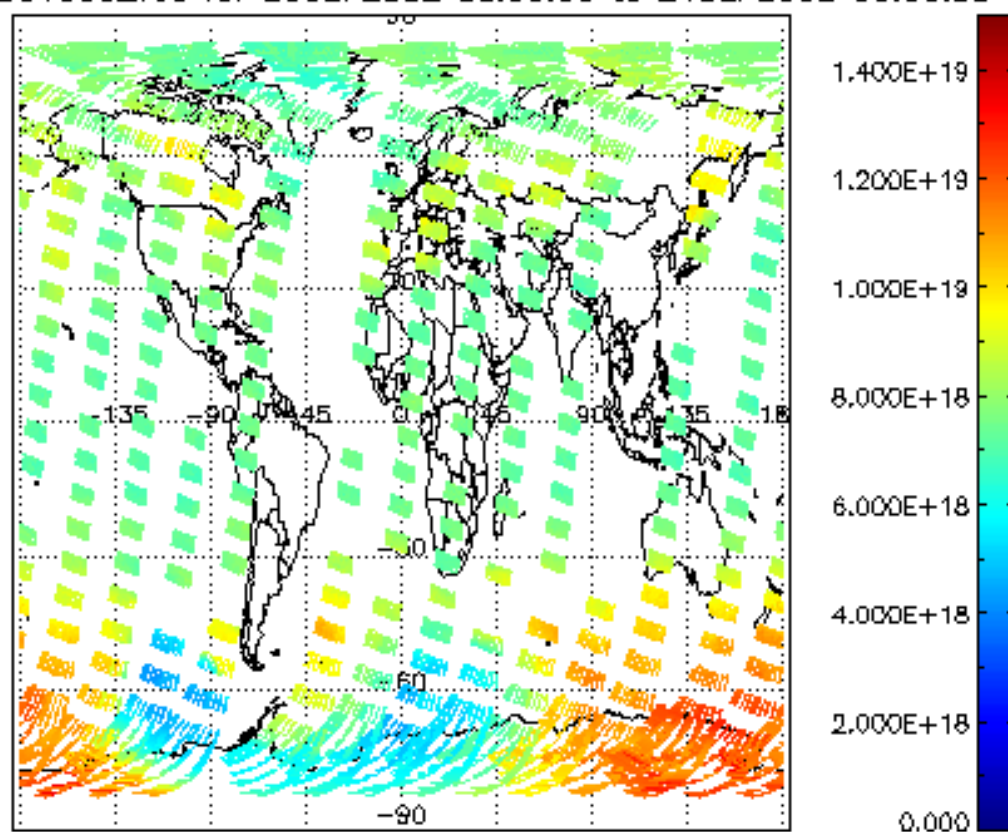


cloud_flags for 23SEP2002 00:00:00 to 24SEP2002 00:00:00

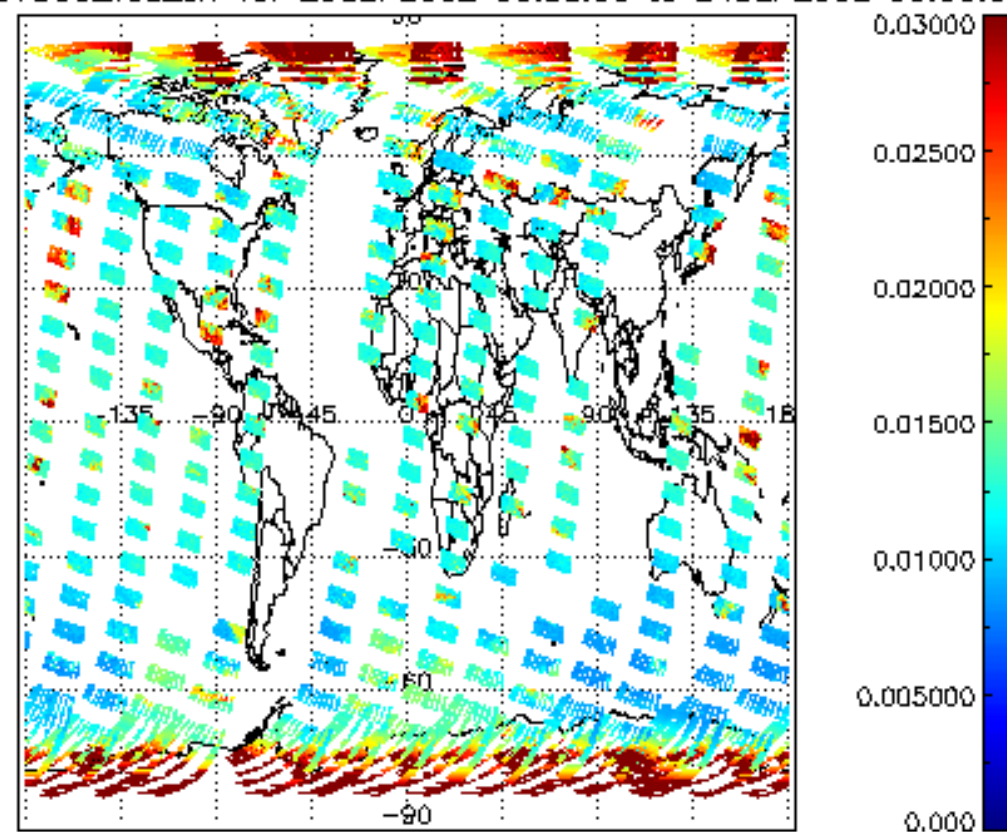




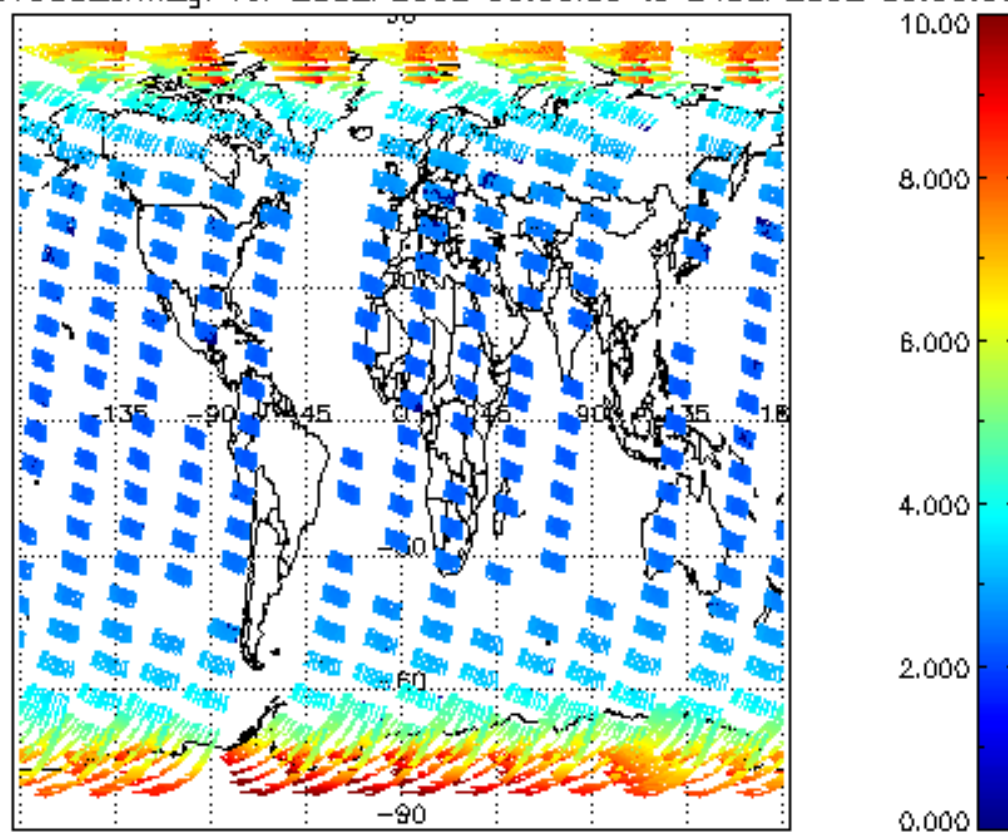
SCIOL2P_NADUV003_vcd for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



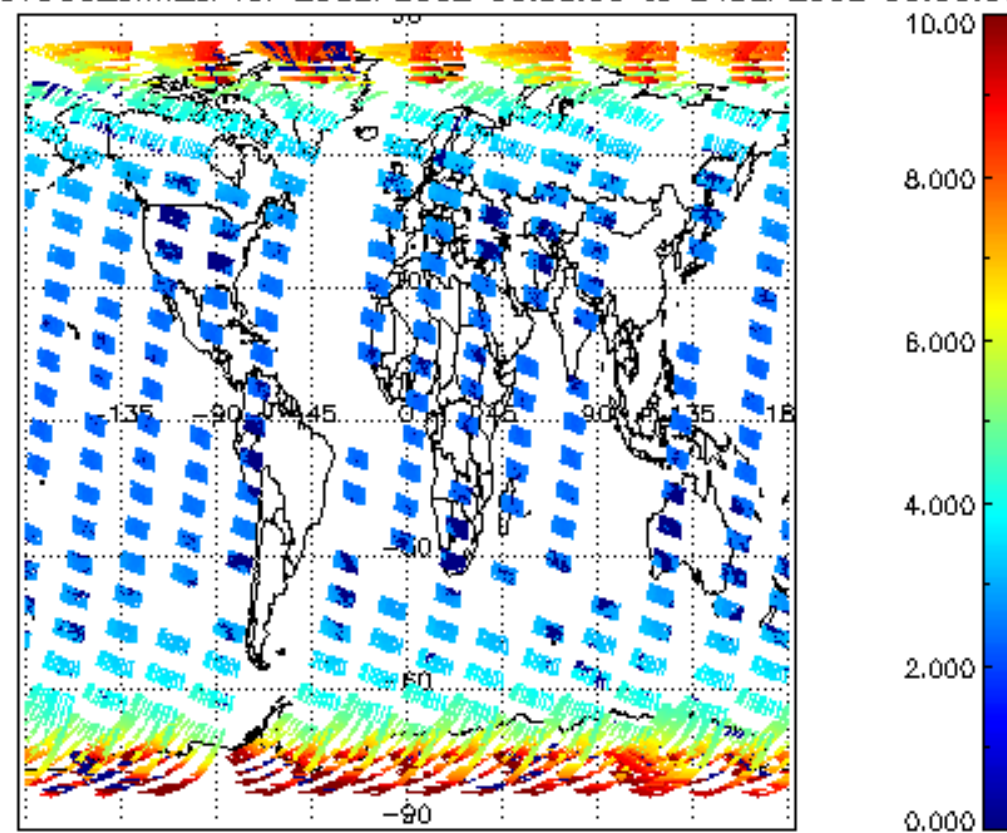
SCIOL2P_NADUV003_vcd_err for 23SEP2002 00:00:00 to 24SEP2002 00:00:00

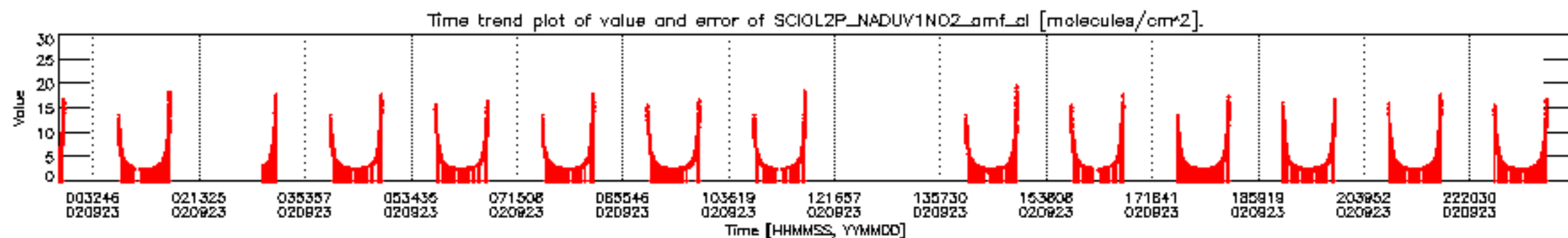
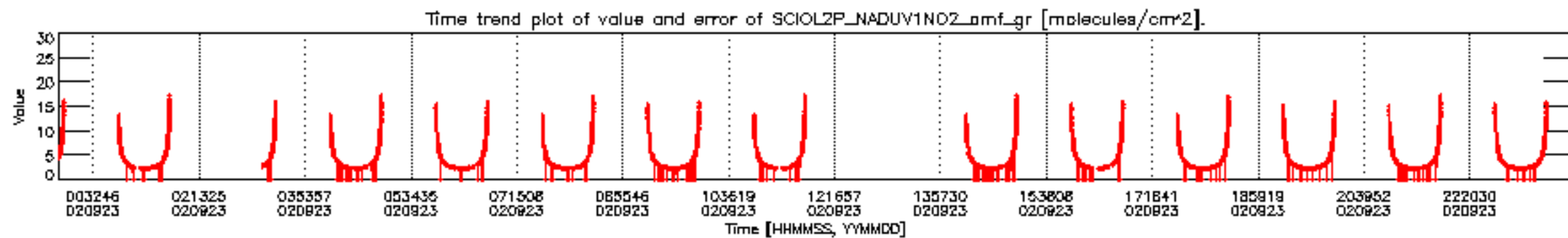
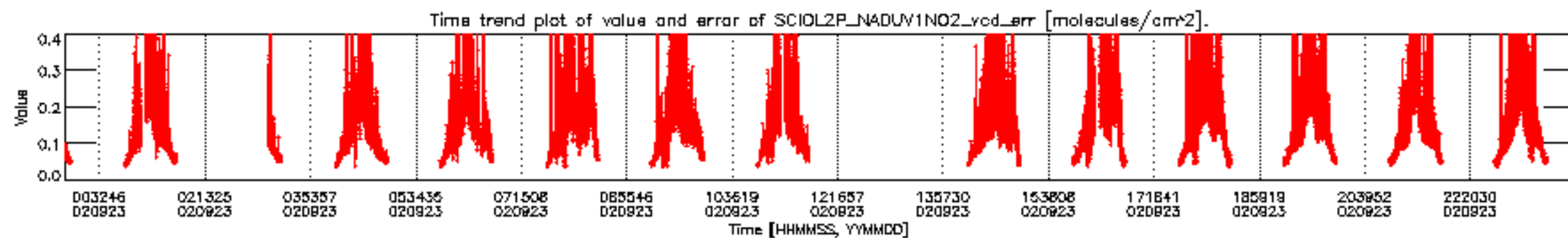
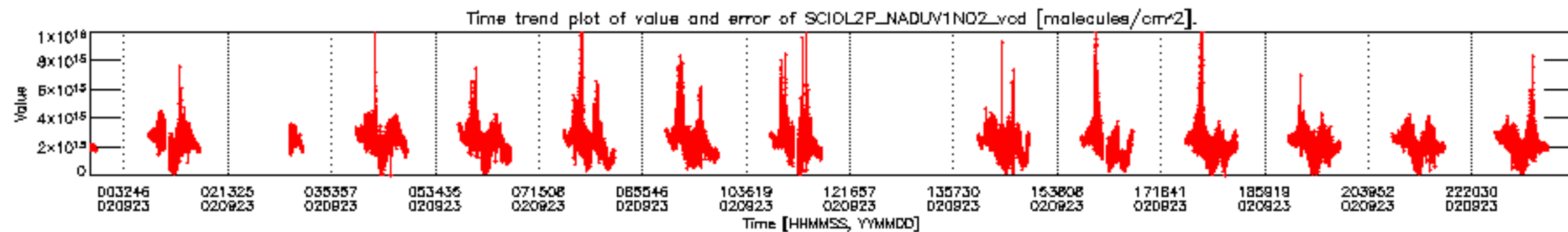


SCIOL2P_NADUV003_amf_gr for 23SEP2002 00:00:00 to 24SEP2002 00:00:00

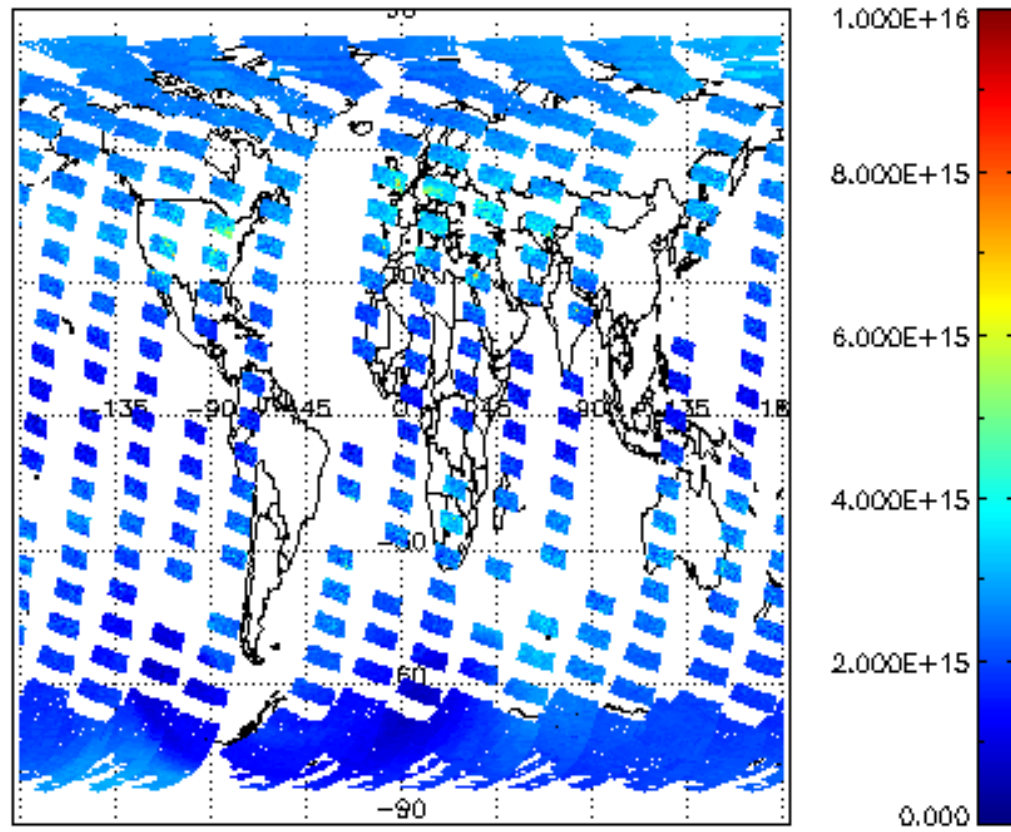


SCIOL2P_NADUV003_amf_cl for 23SEP2002 00:00:00 to 24SEP2002 00:00:00

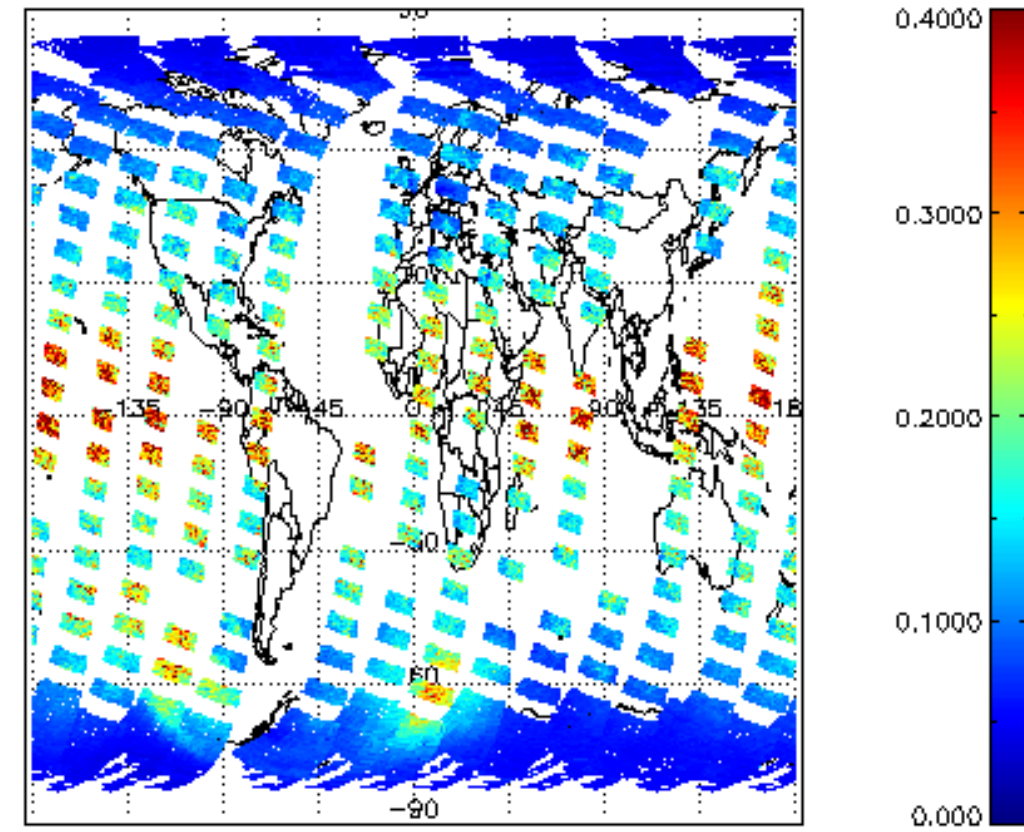




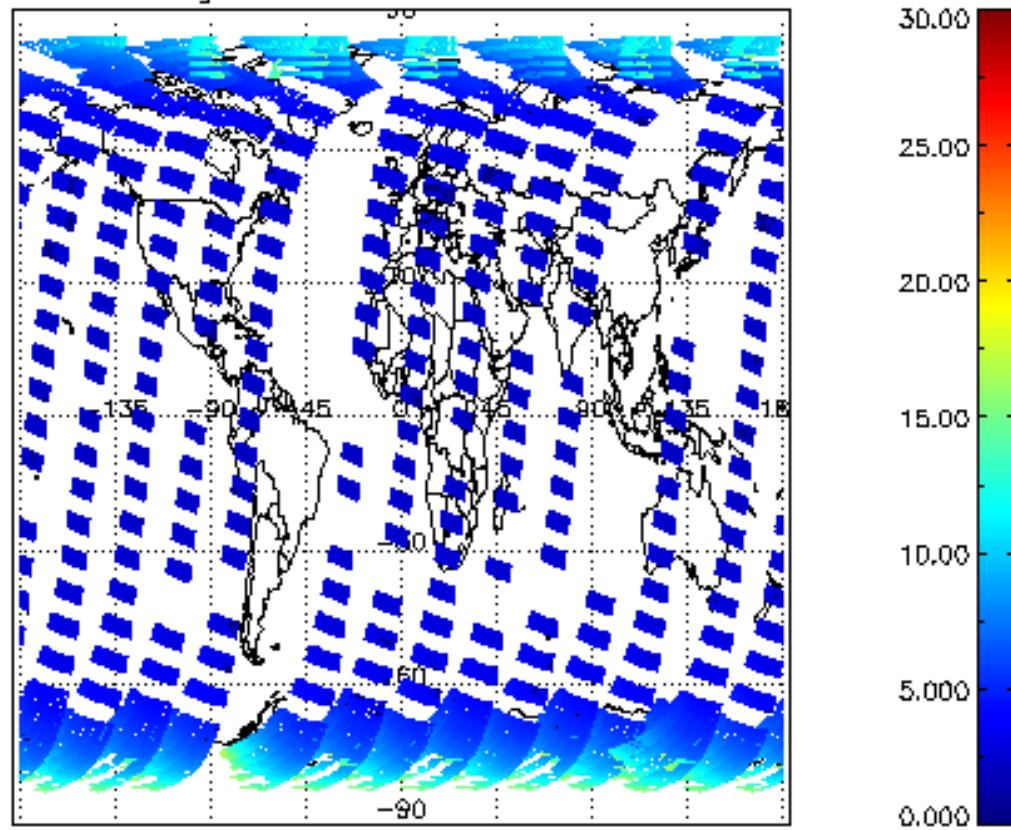
SCIOL2P_NADUV1NO2_vcd for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



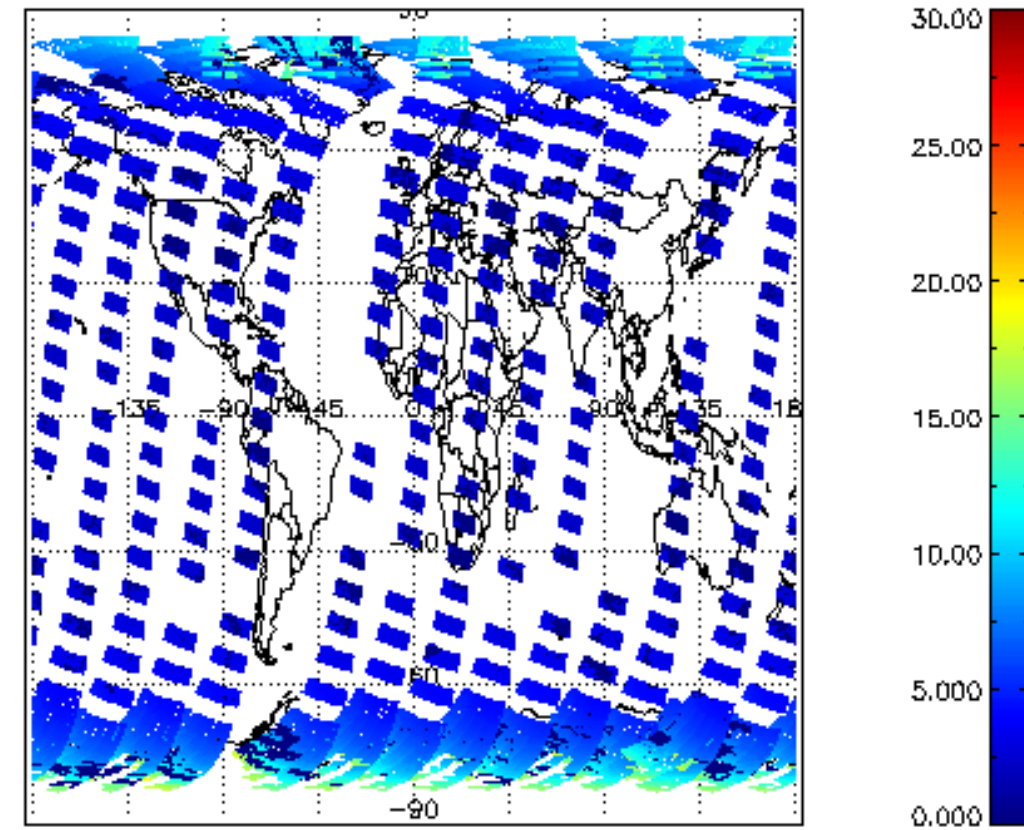
iCIOL2P_NADUV1NO2_vcd_err for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



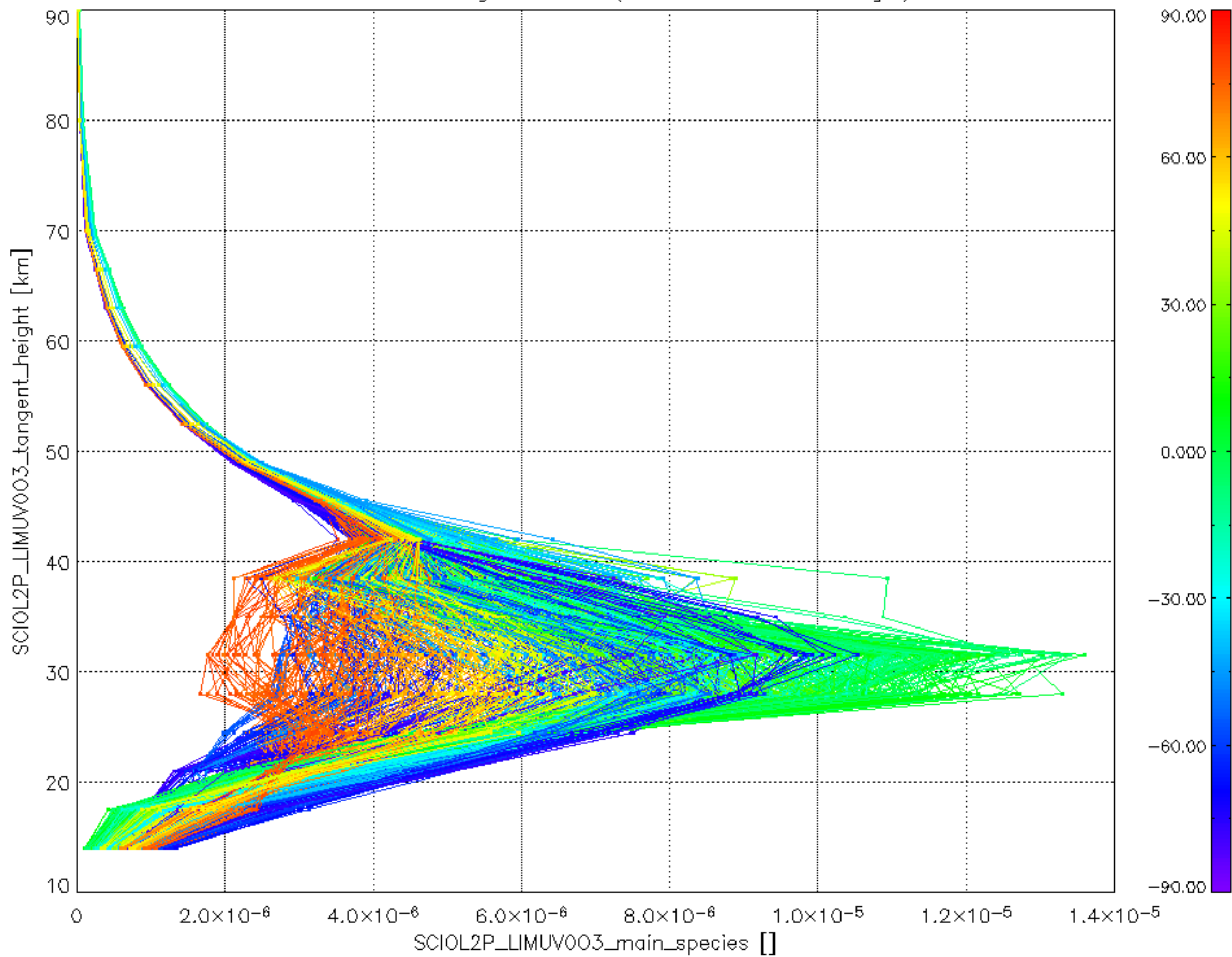
iCIOL2P_NADUV1NO2_amf_gr for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



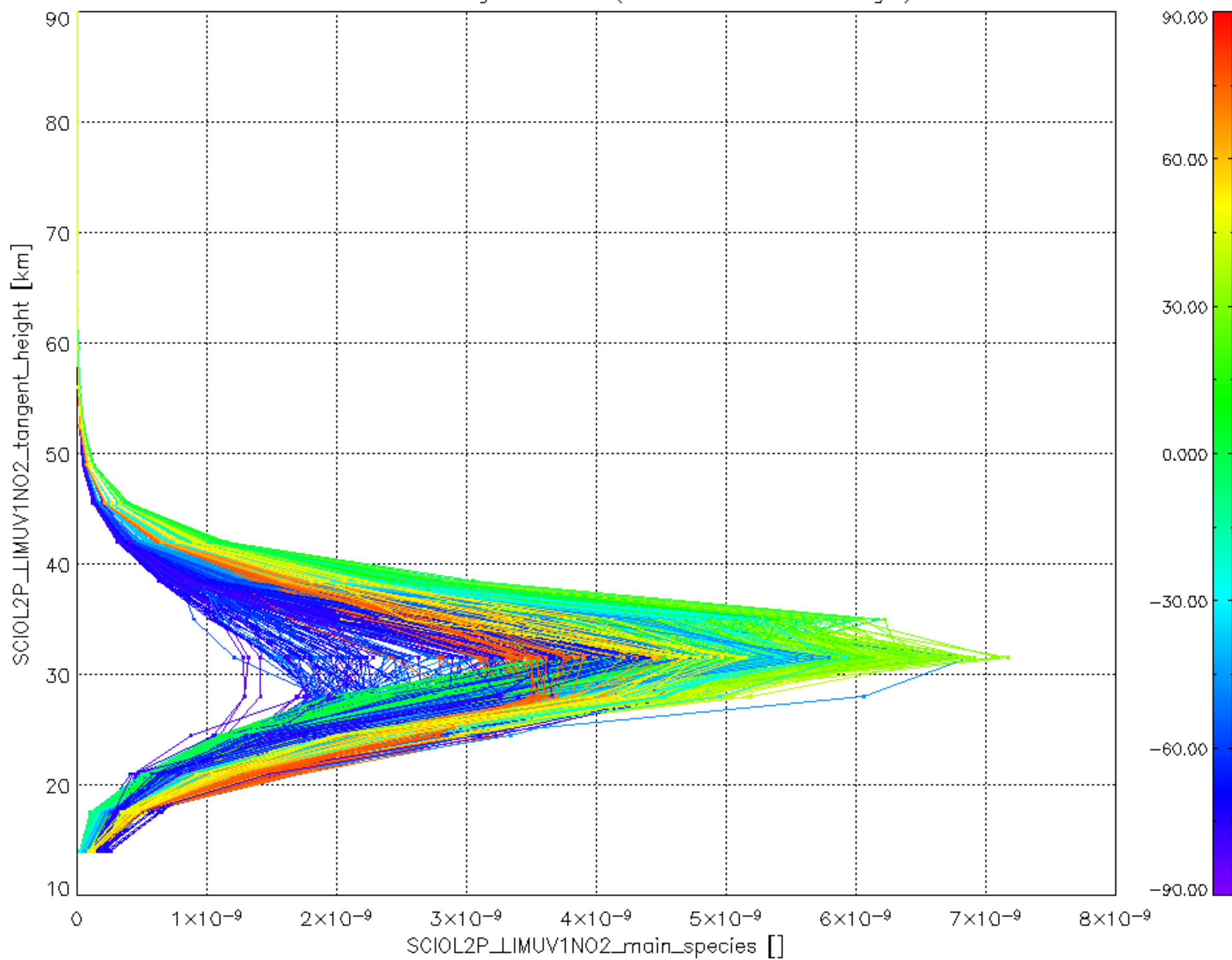
iCIOL2P_NADUV1NO2_amf_cl for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



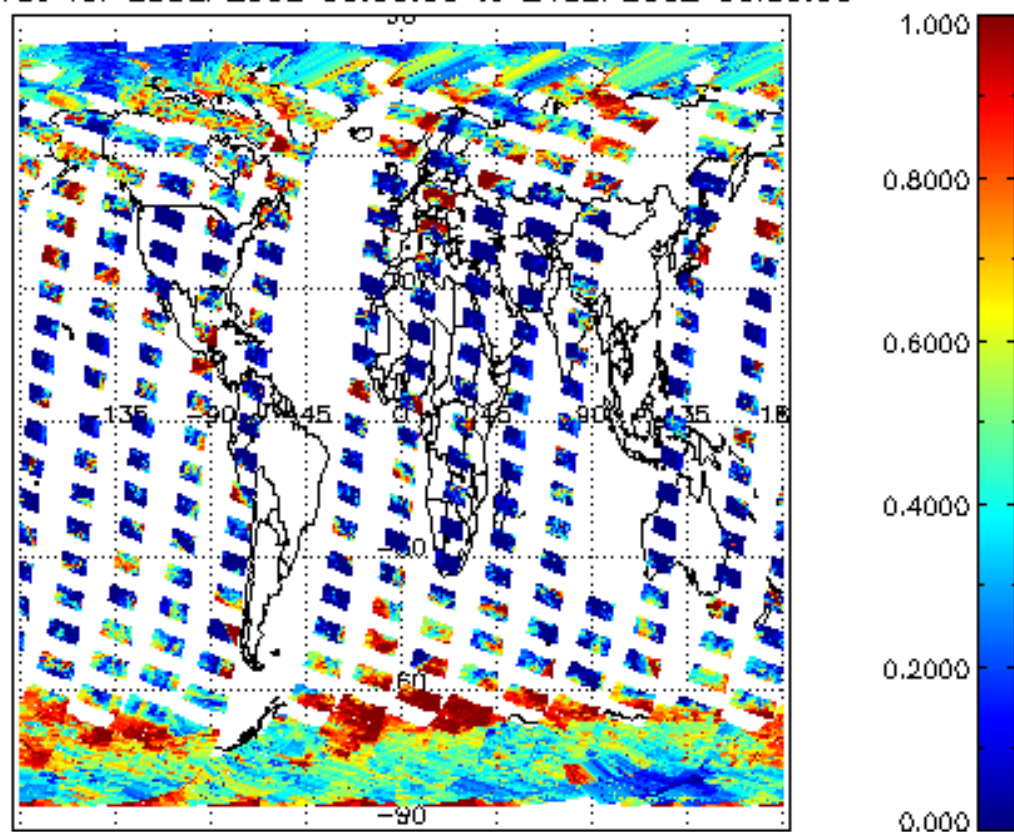
Plot of SCIOL2P_LIMUV003_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



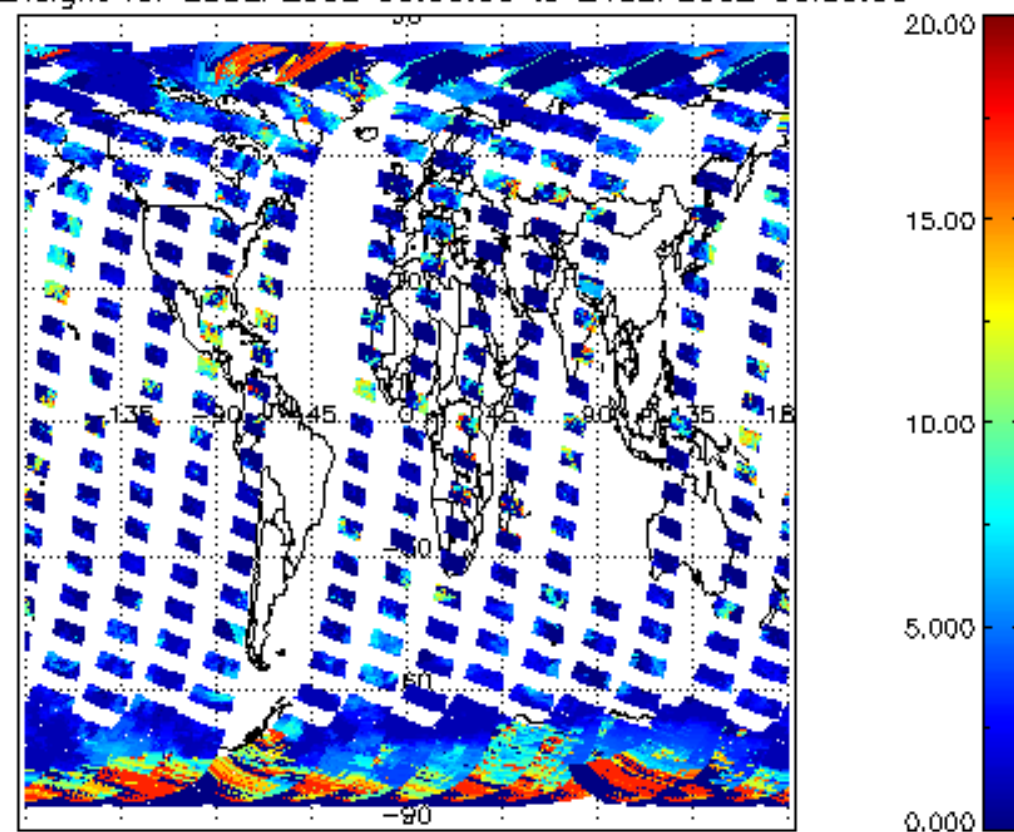
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



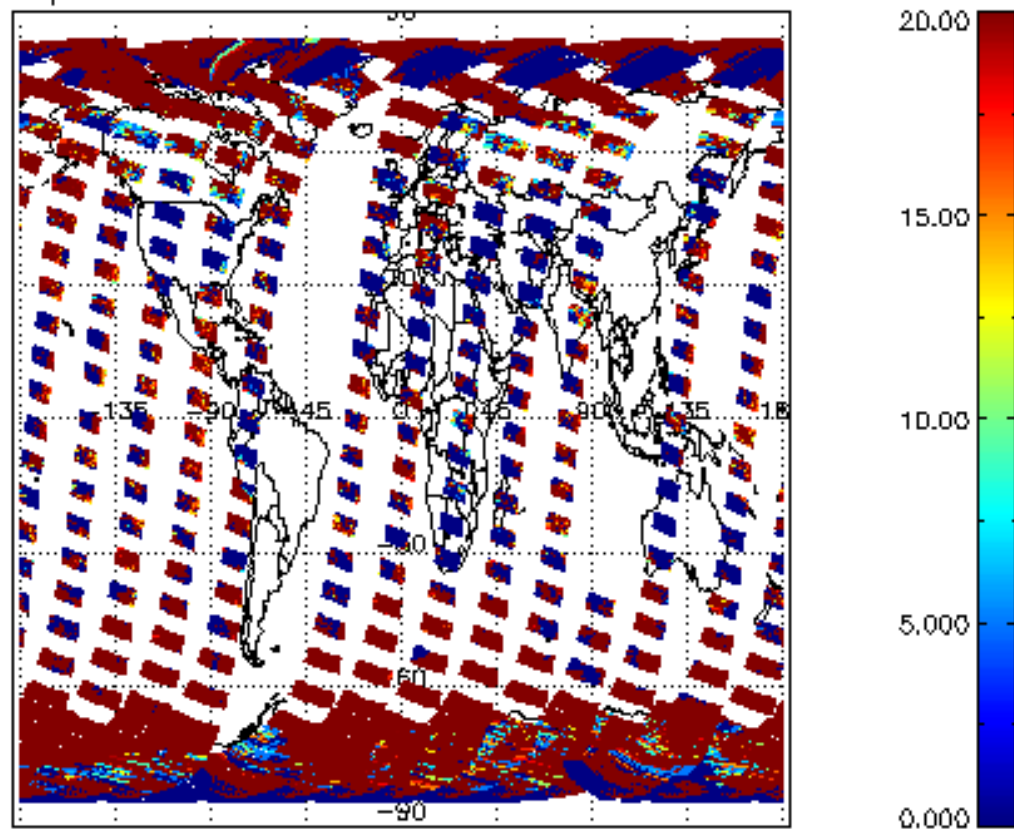
cl_frac for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



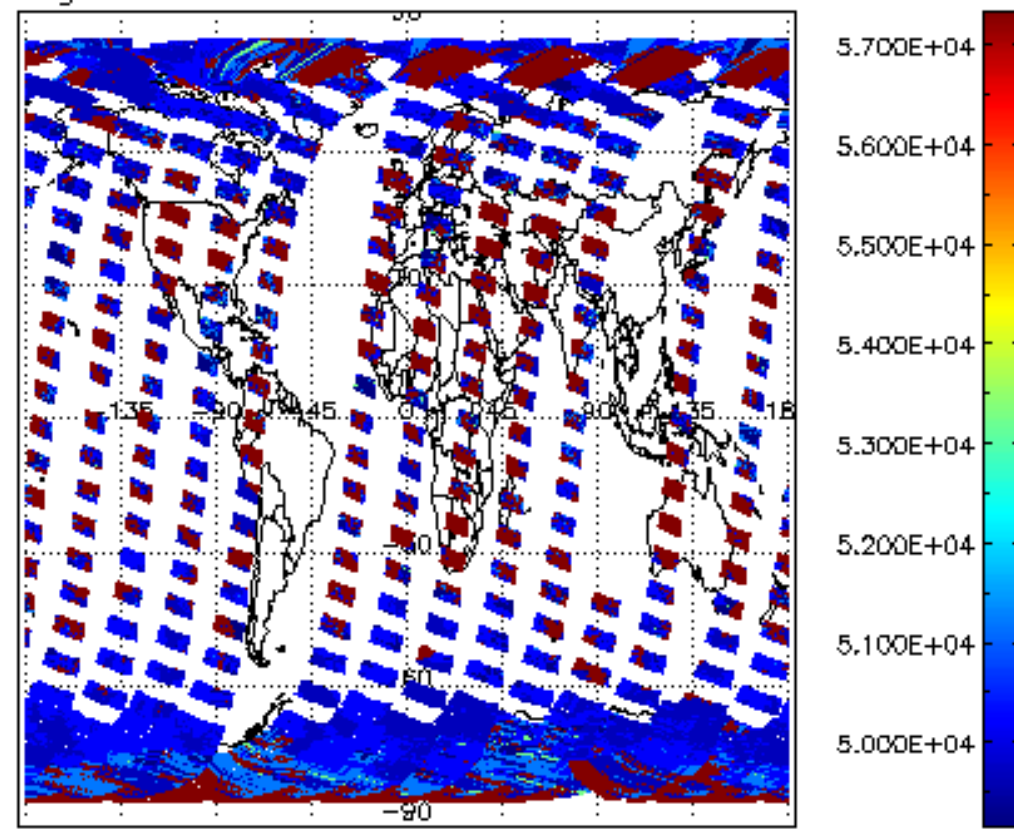
cl_top_height for 23SEP2002 00:00:00 to 24SEP2002 00:00:00

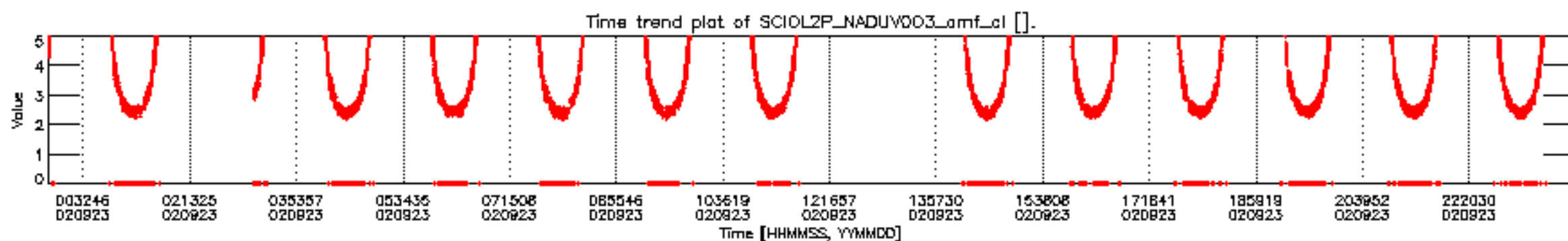
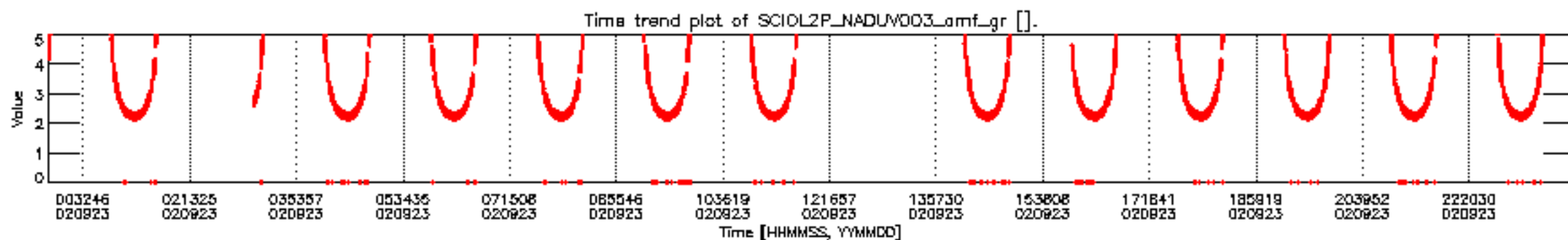
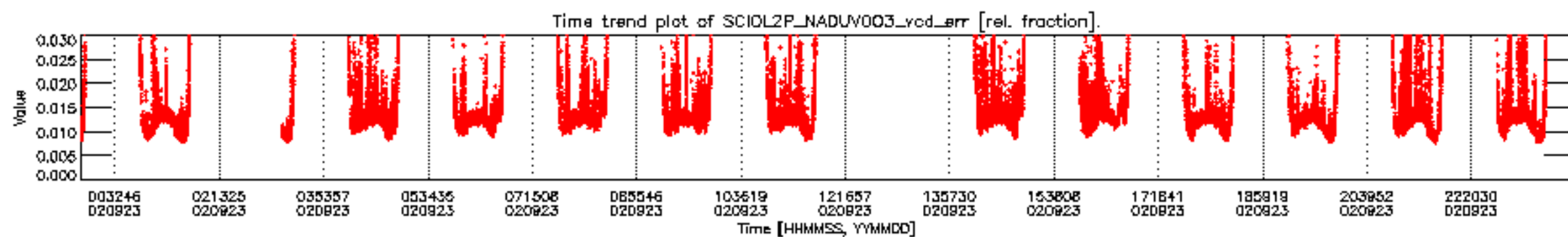
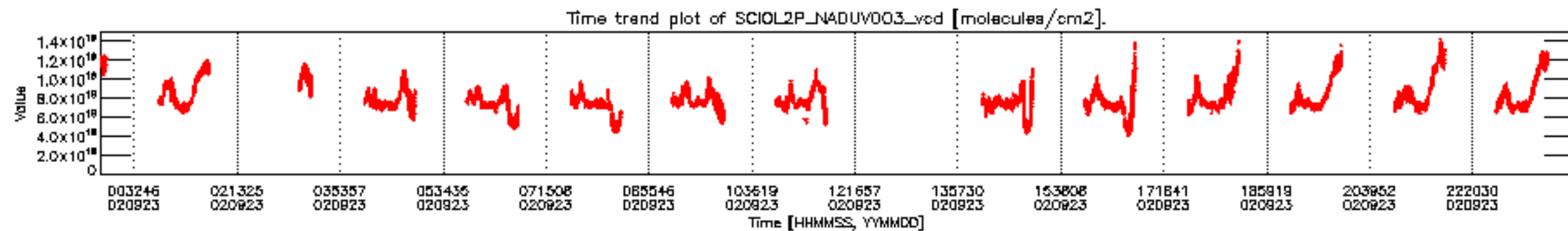


cl_opt_depth for 23SEP2002 00:00:00 to 24SEP2002 00:00:00

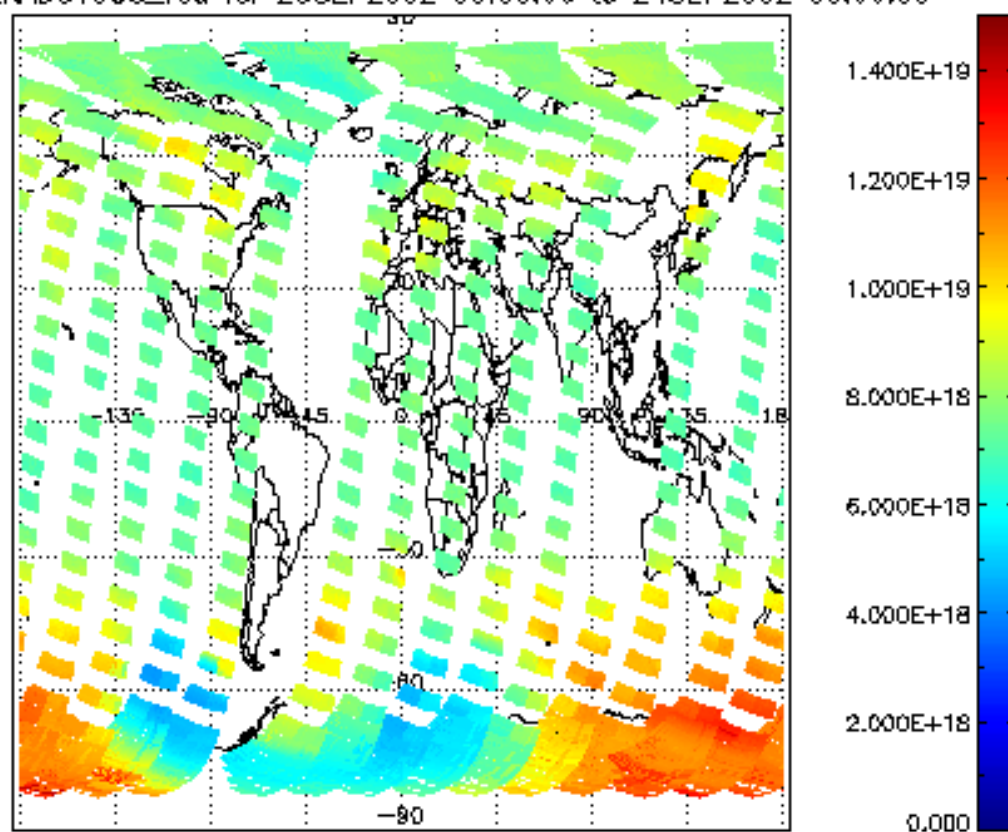


cloud_flags for 23SEP2002 00:00:00 to 24SEP2002 00:00:00

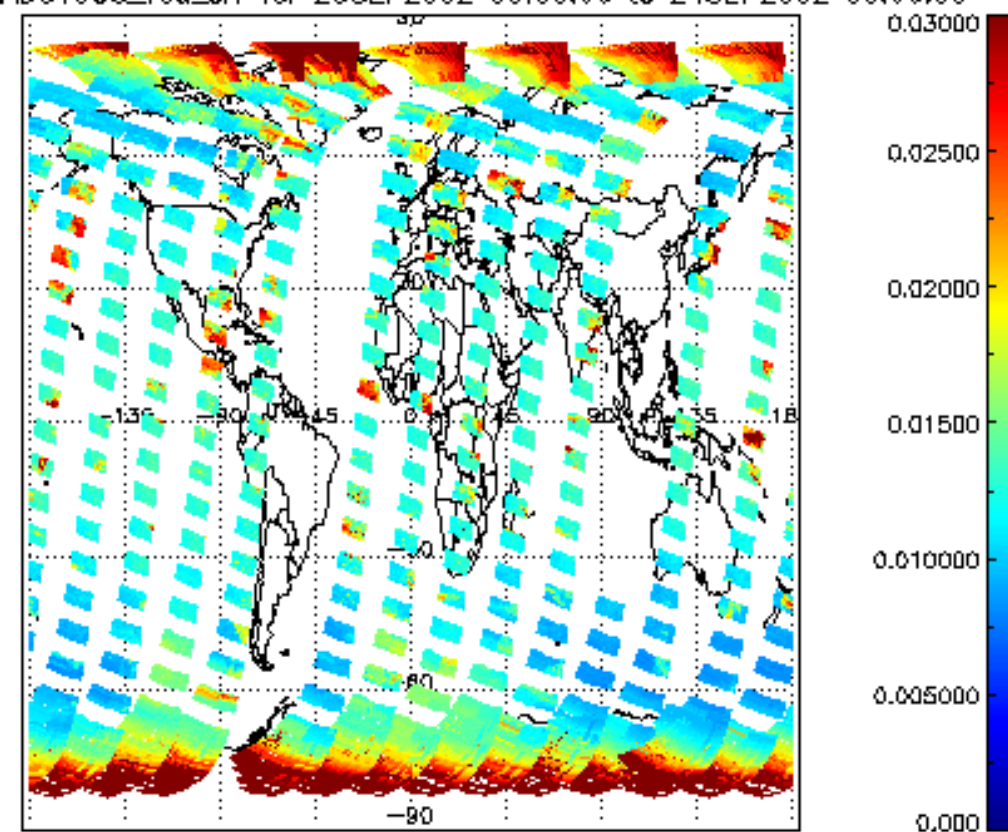




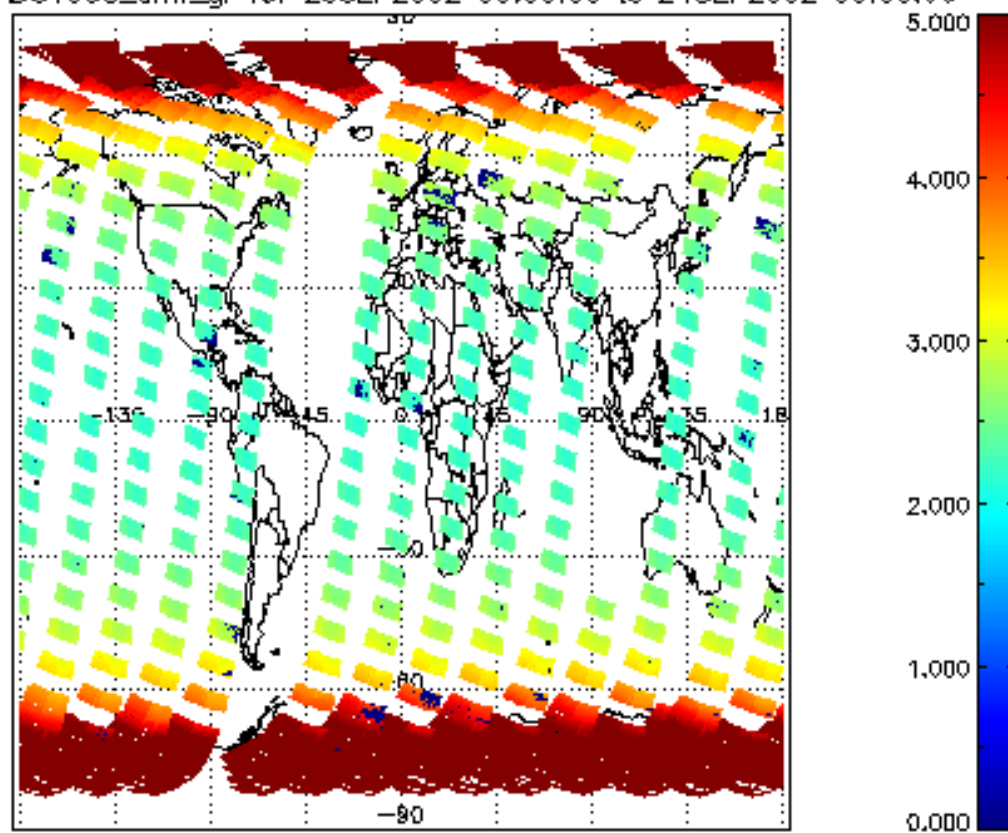
SCIOL2P_NADUV003_vcd for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



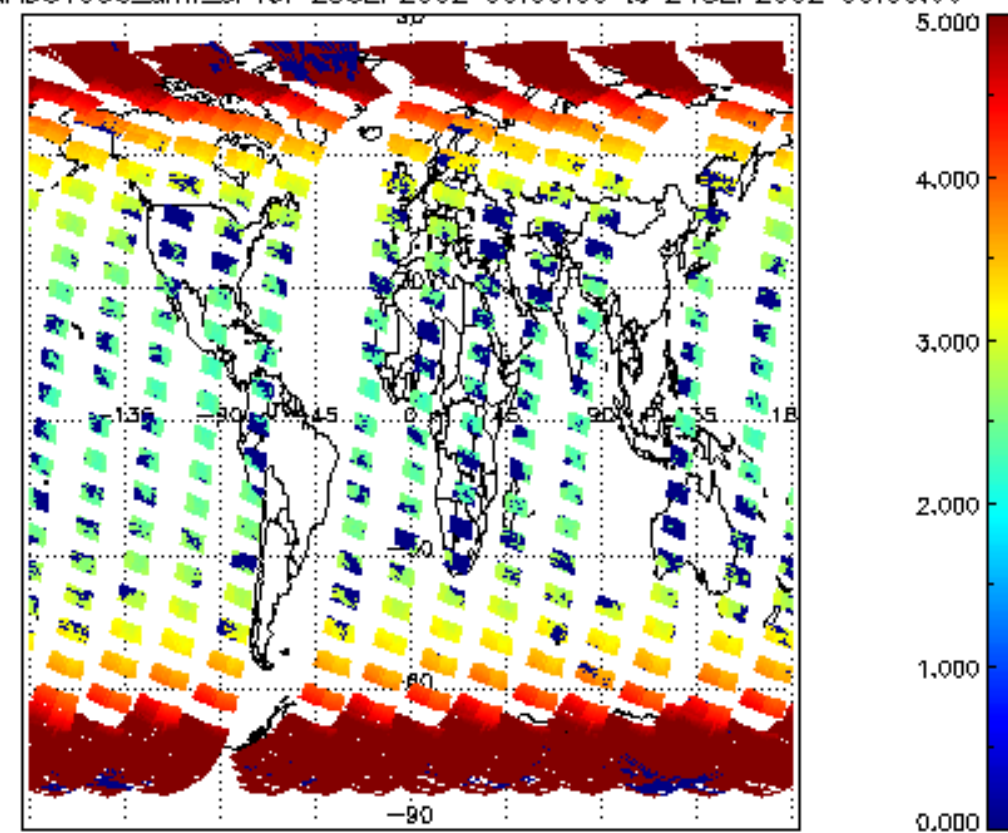
SCIOL2P_NADUV003_vcd_err for 23SEP2002 00:00:00 to 24SEP2002 00:00:00

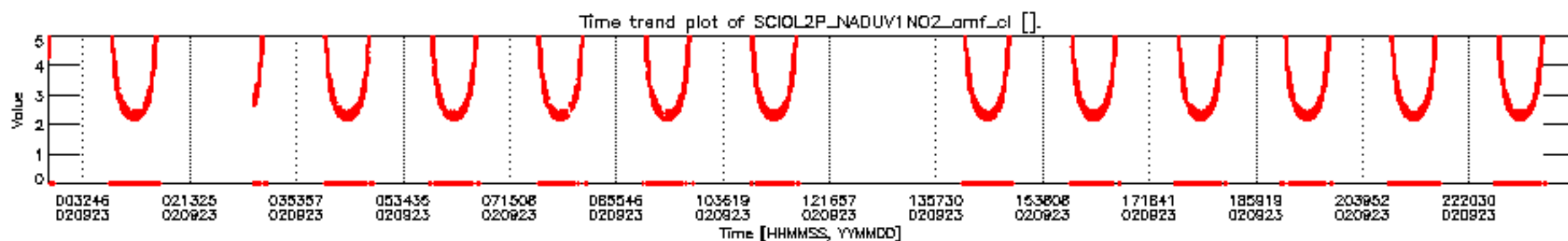
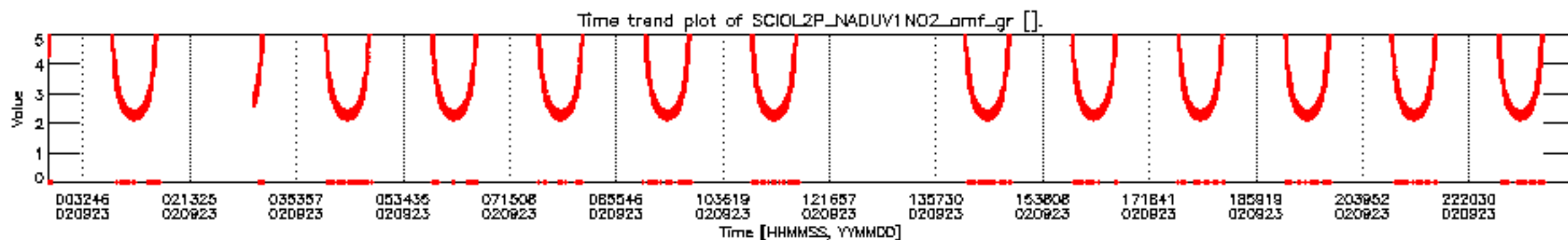
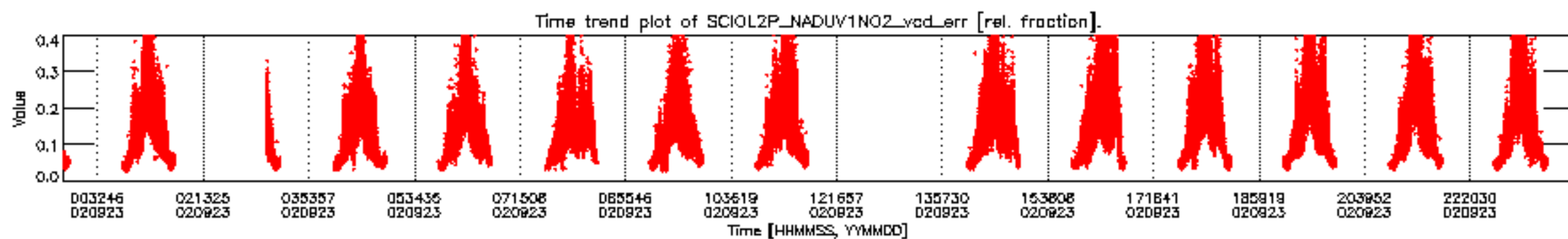
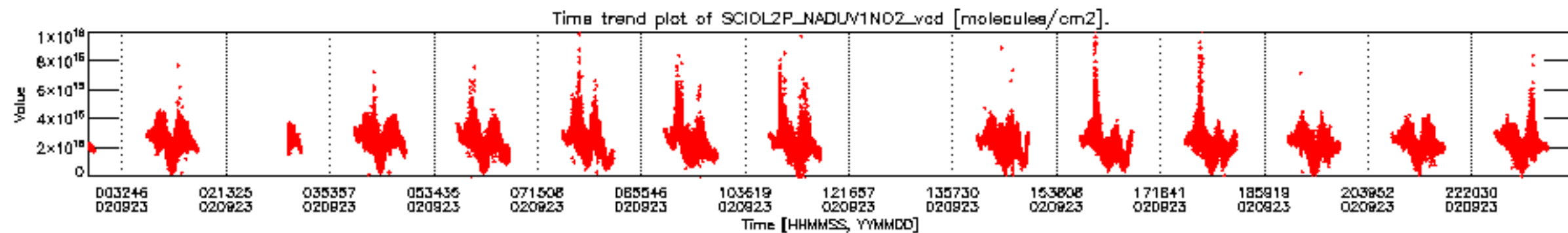


SCIOL2P_NADUV003_amf_gr for 23SEP2002 00:00:00 to 24SEP2002 00:00:00

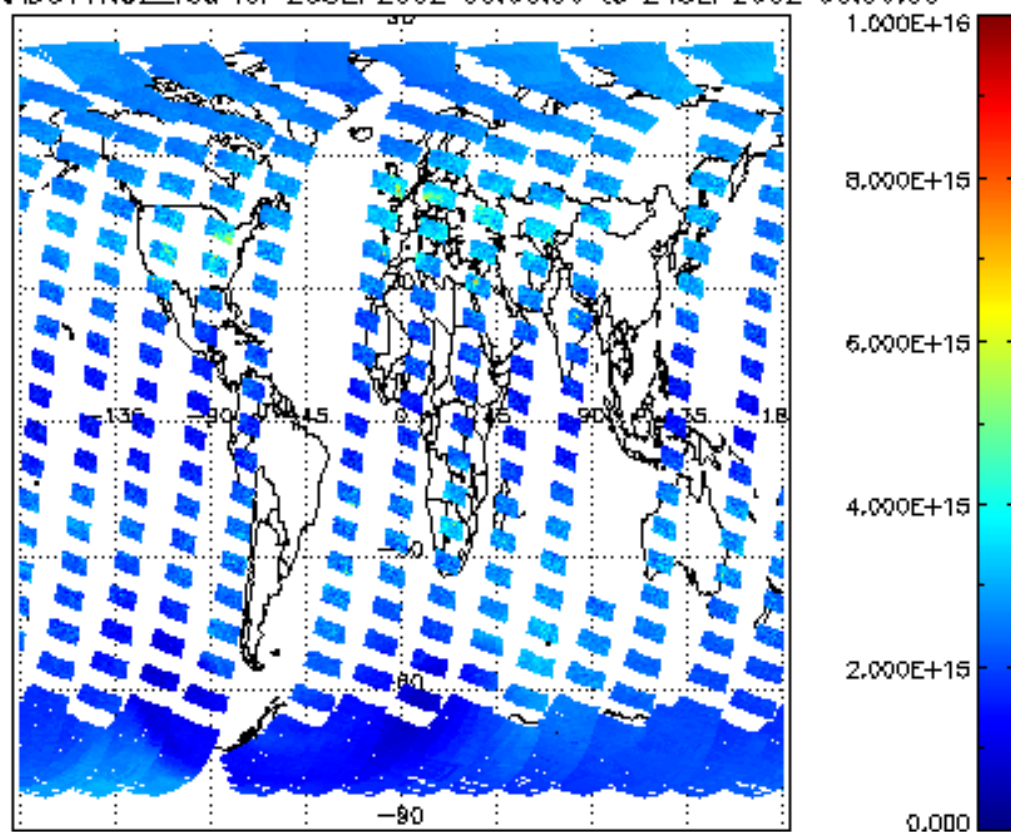


SCIOL2P_NADUV003_amf_cl for 23SEP2002 00:00:00 to 24SEP2002 00:00:00

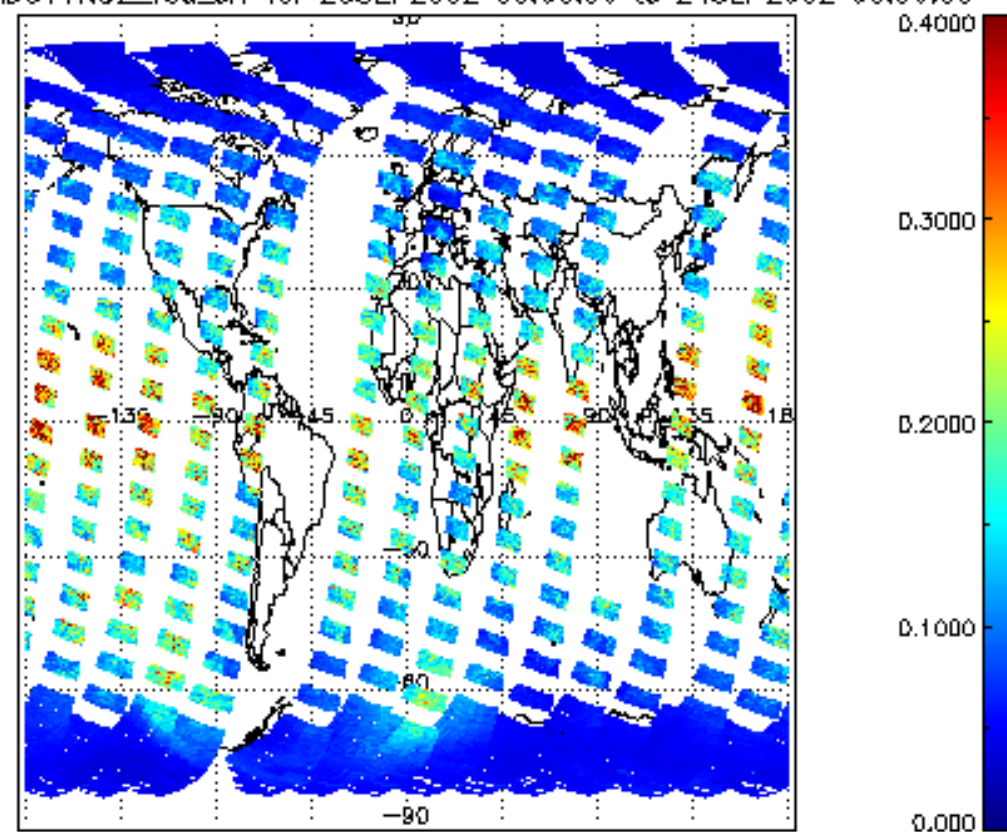




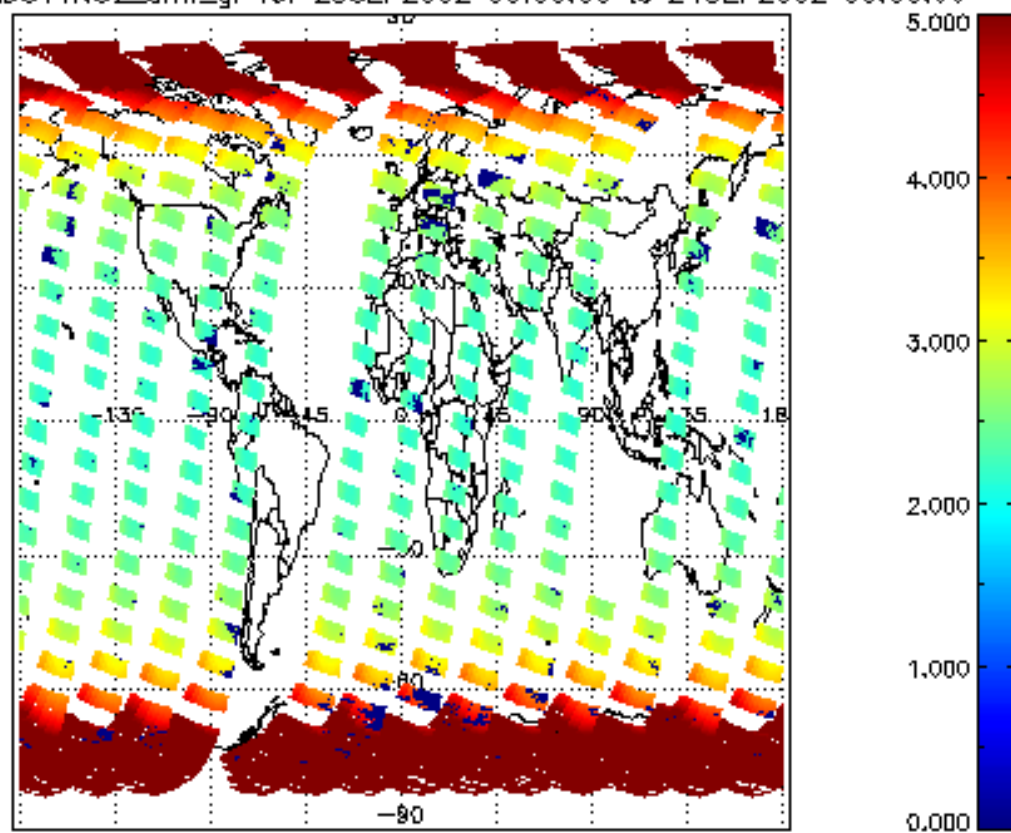
SCIOL2P_NADUV1NO2_vcd for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



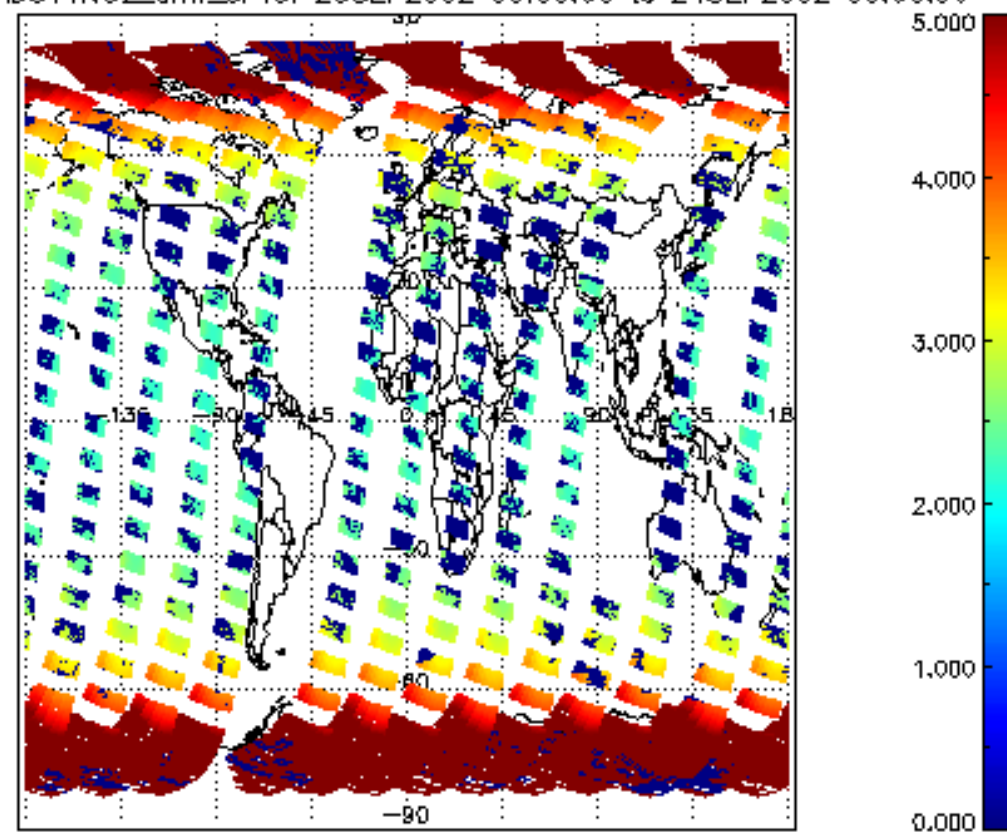
SCIOL2P_NADUV1NO2_vcd_err for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



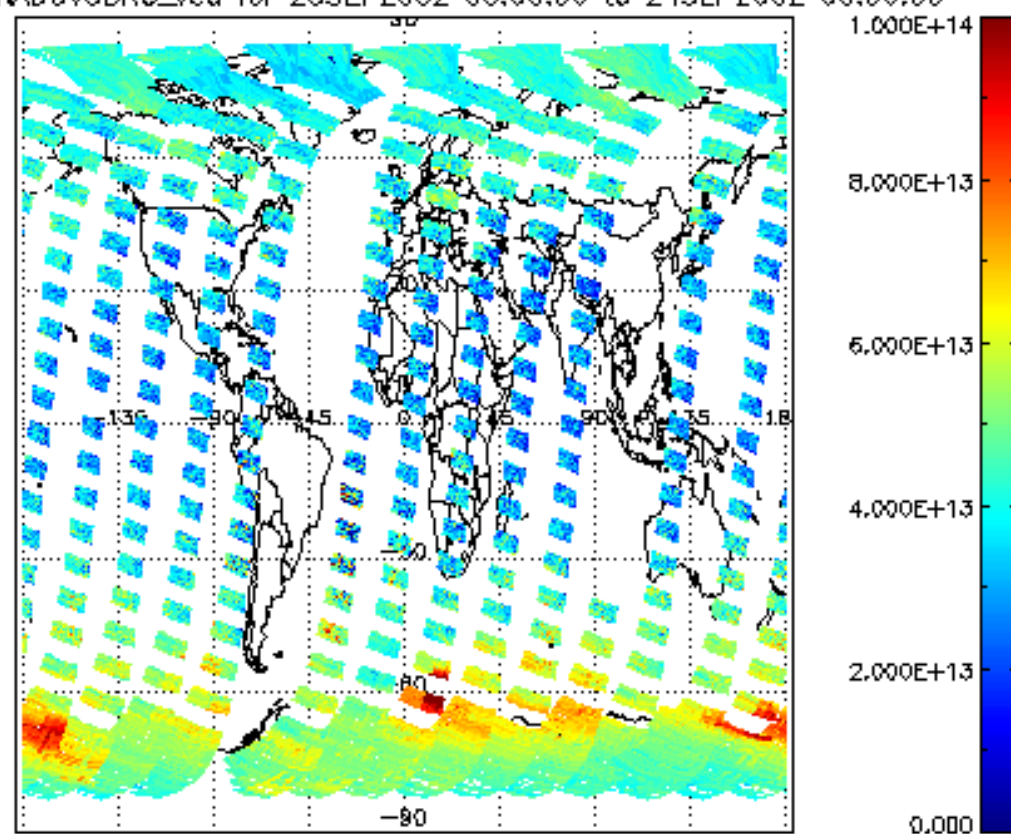
SCIOL2P_NADUV1NO2_amf_gr for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



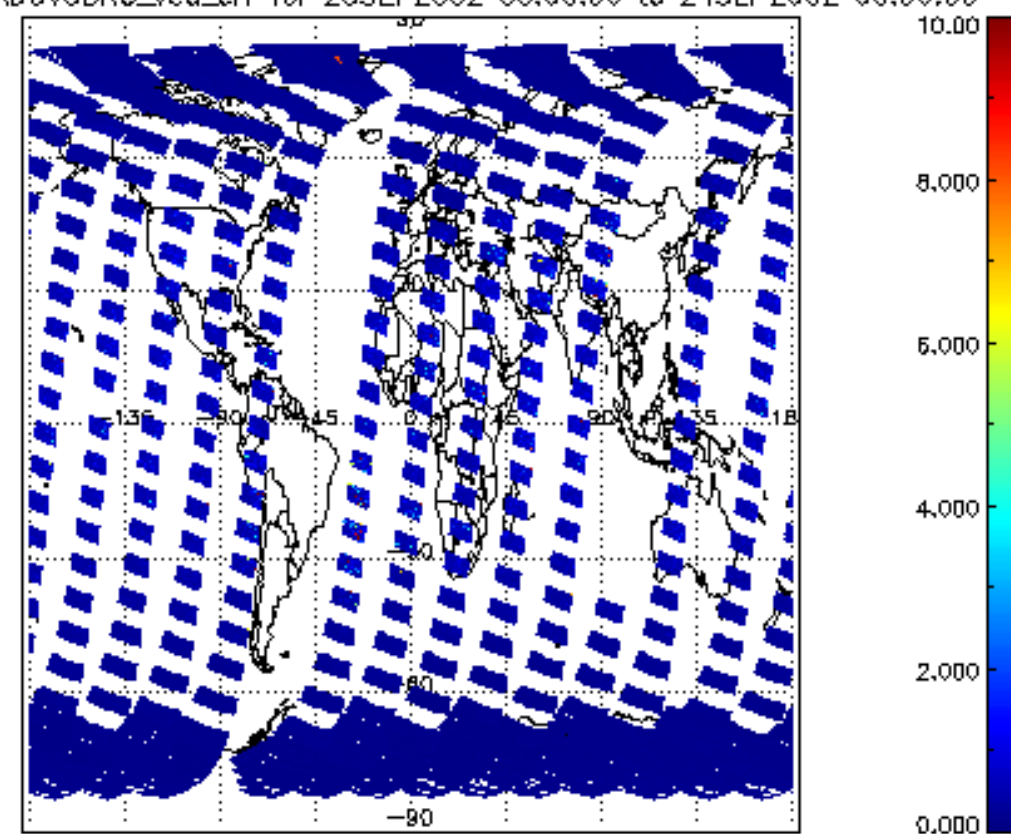
SCIOL2P_NADUV1NO2_amf_cl for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



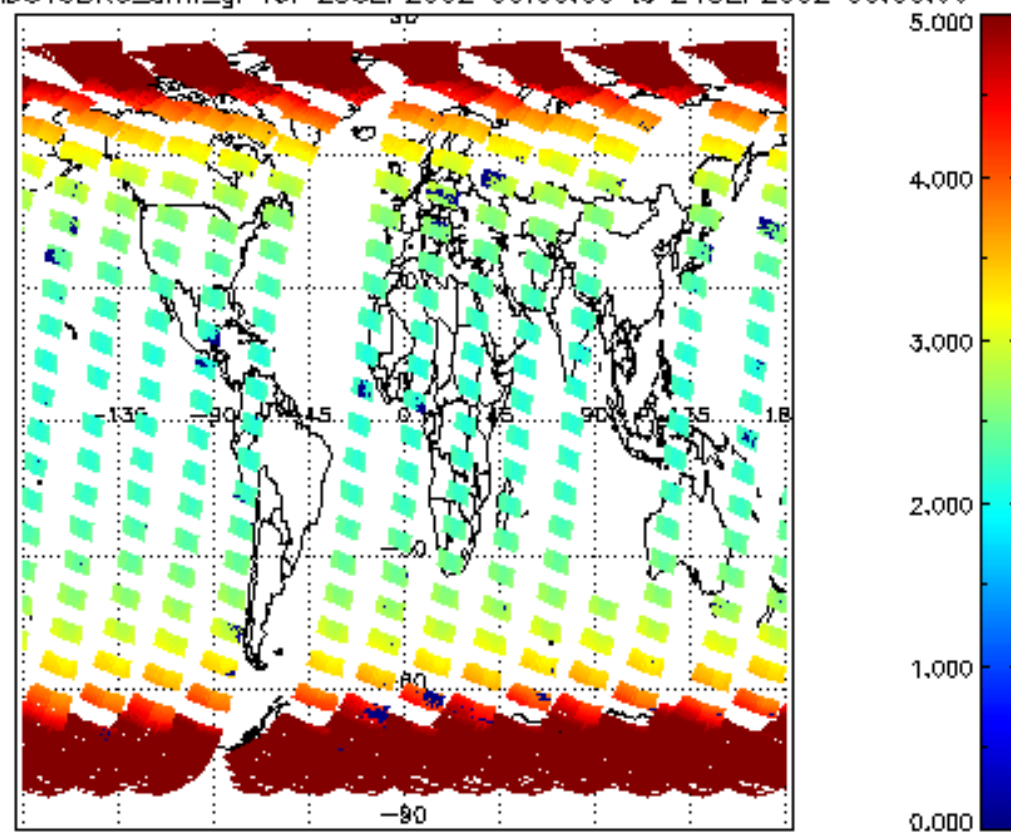
SCIOL2P_NADUV3BRO_vcd for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



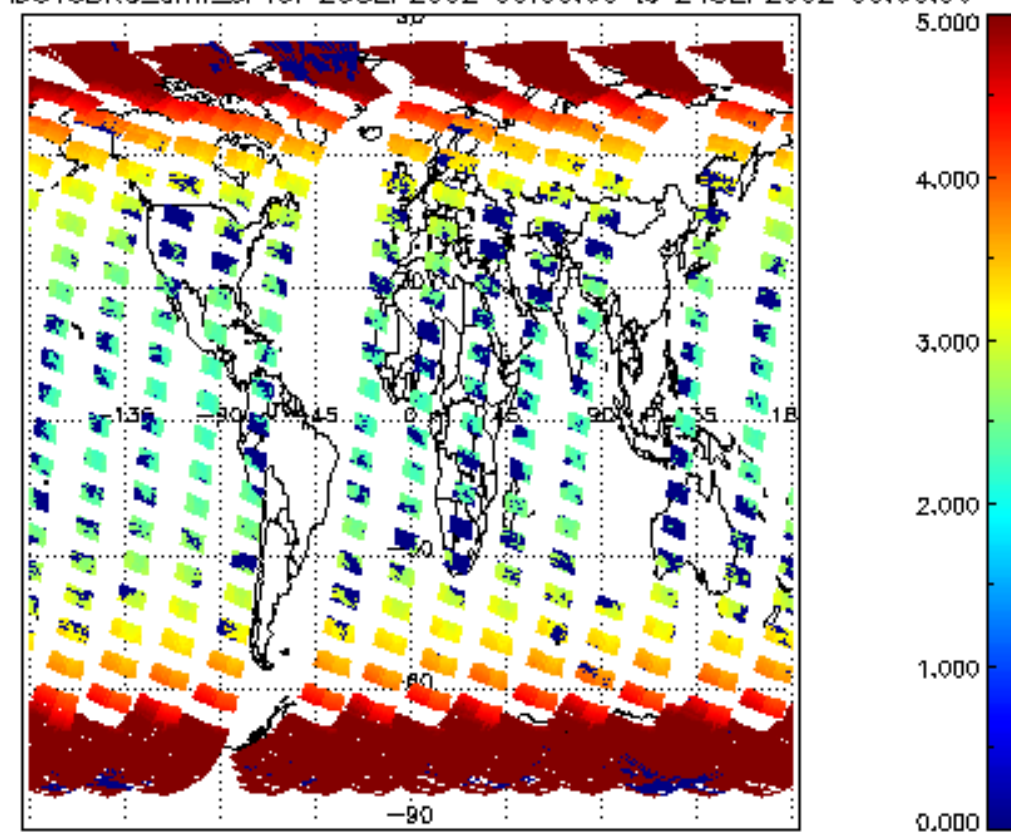
SCIOL2P_NADUV3BRO_vcd_err for 23SEP2002 00:00:00 to 24SEP2002 00:00:00

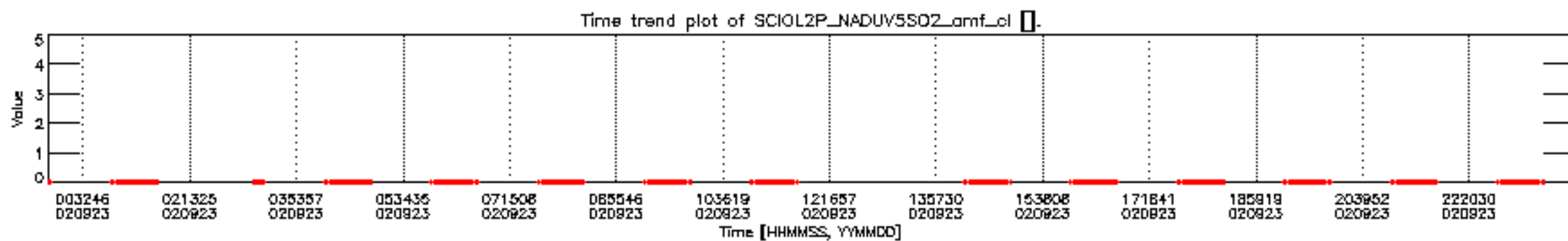
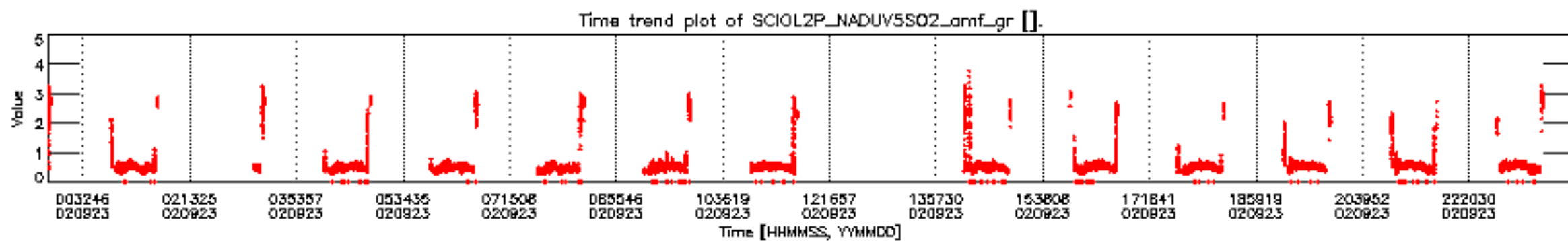
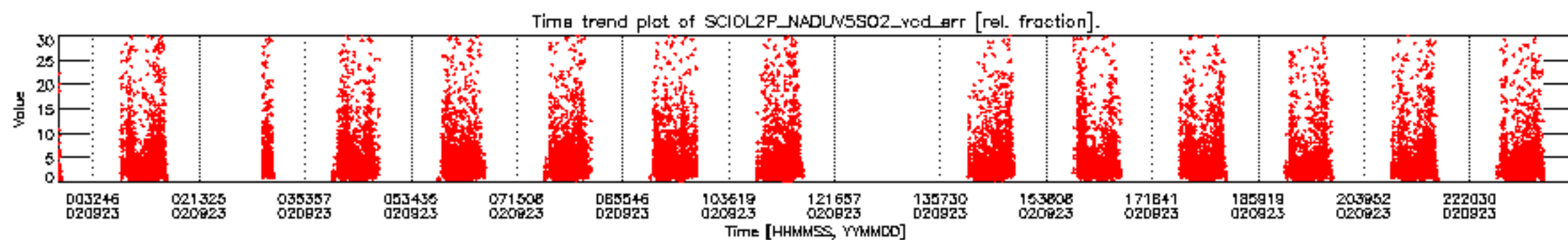
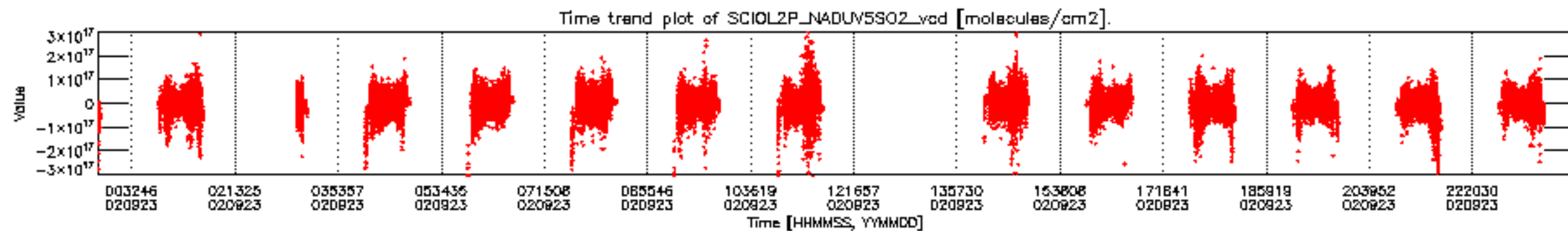


SCIOL2P_NADUV3BRO_amf_gr for 23SEP2002 00:00:00 to 24SEP2002 00:00:00

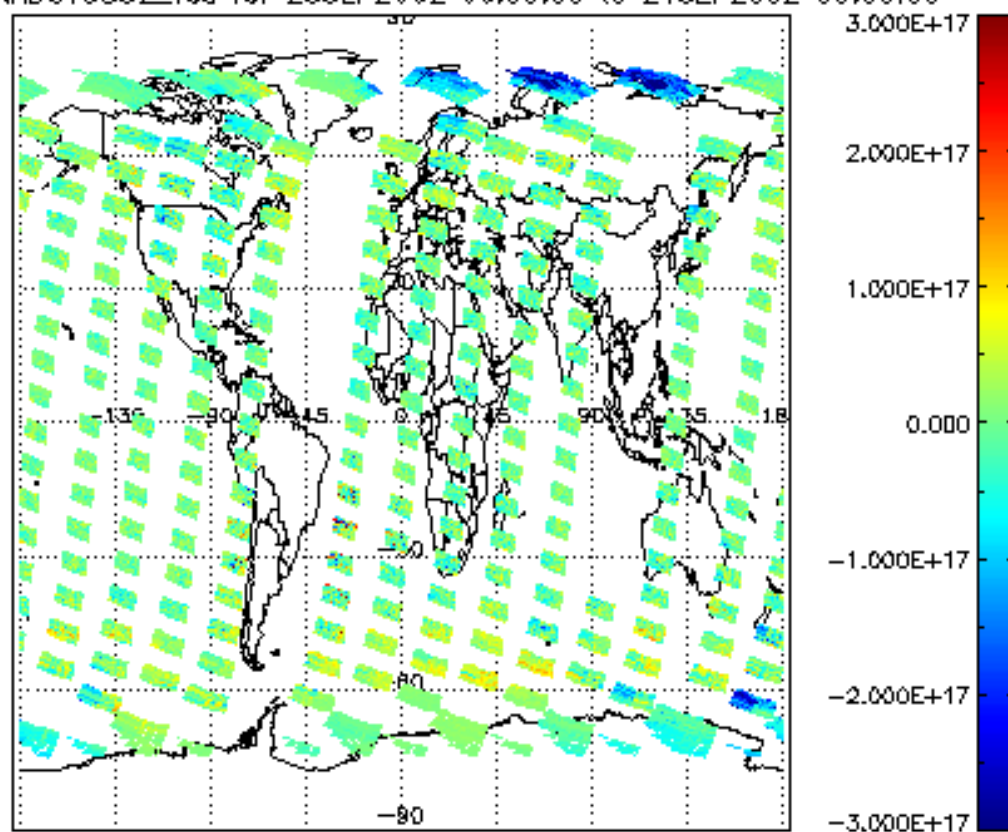


SCIOL2P_NADUV3BRO_amf_sl for 23SEP2002 00:00:00 to 24SEP2002 00:00:00

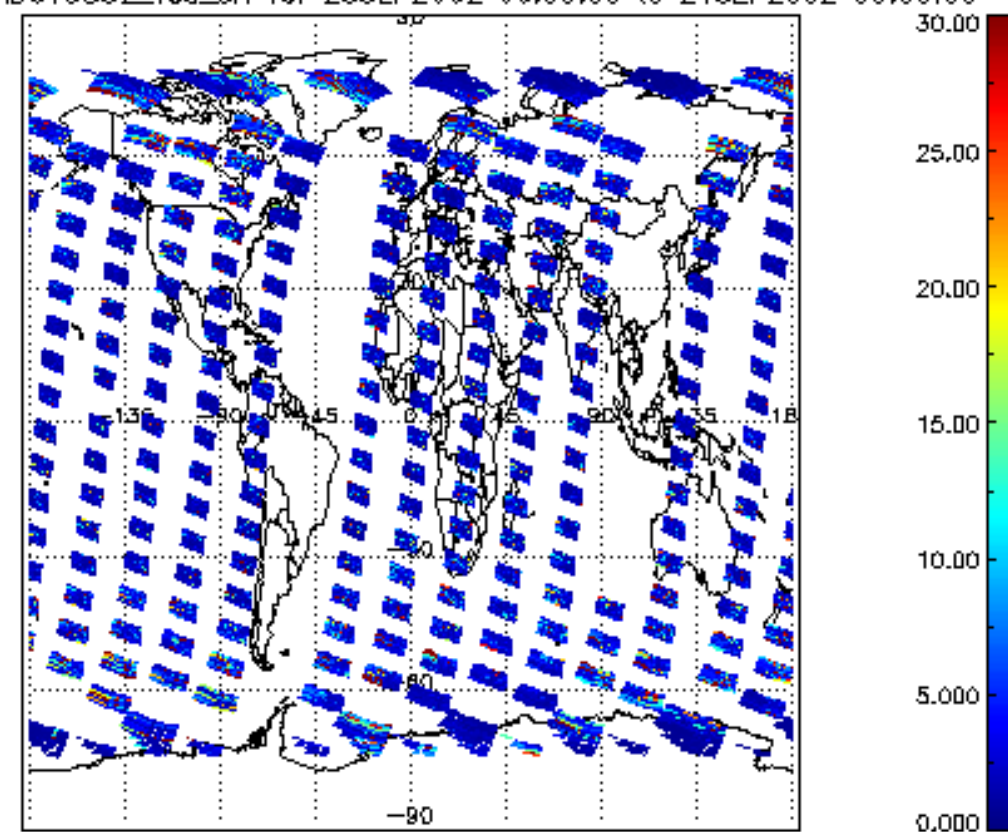




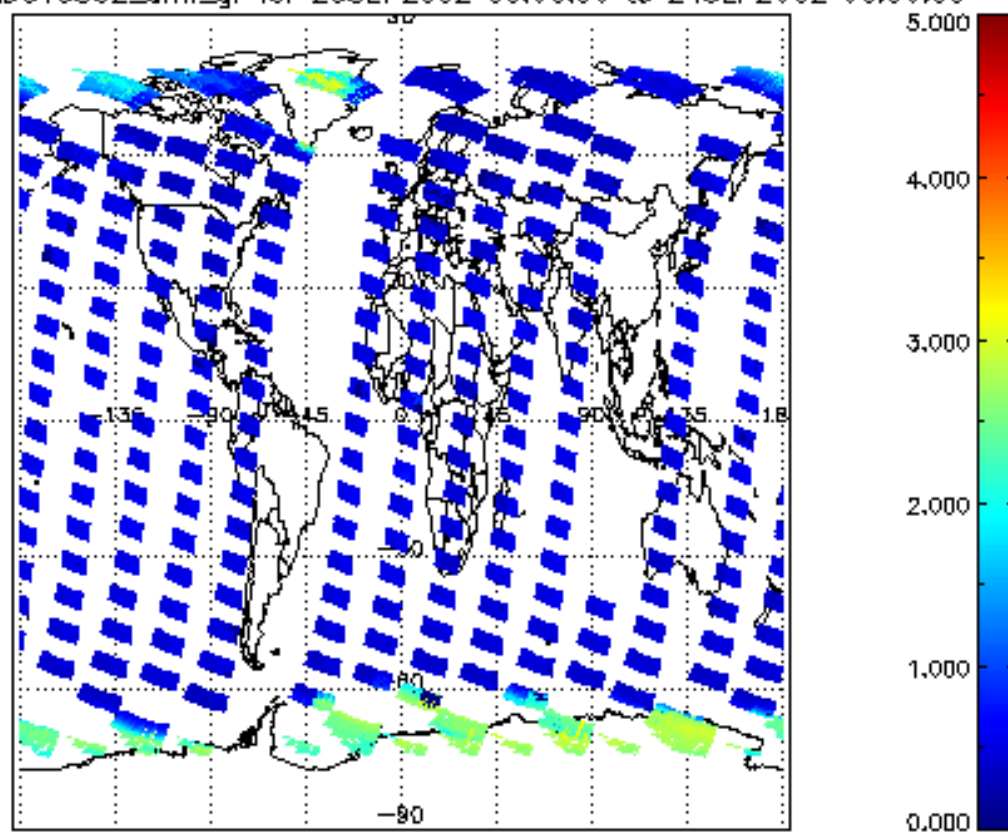
SCIOL2P_NADUV5S02_vcd for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



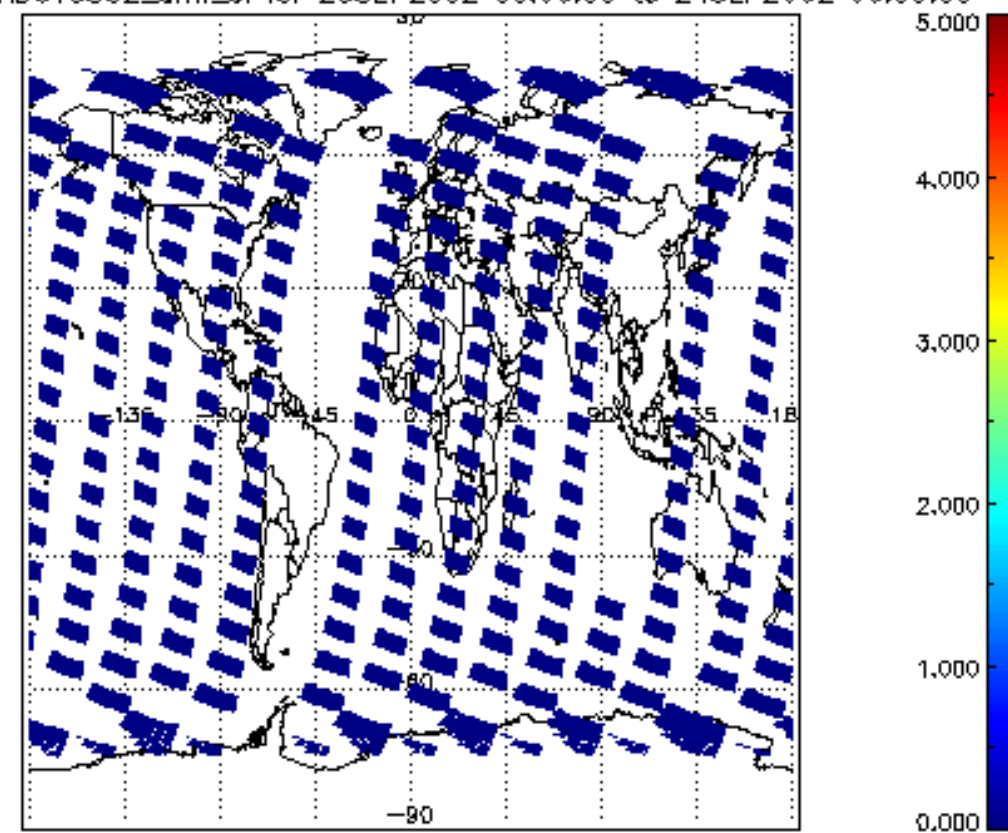
SCIOL2P_NADUV5S02_vcd_err for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



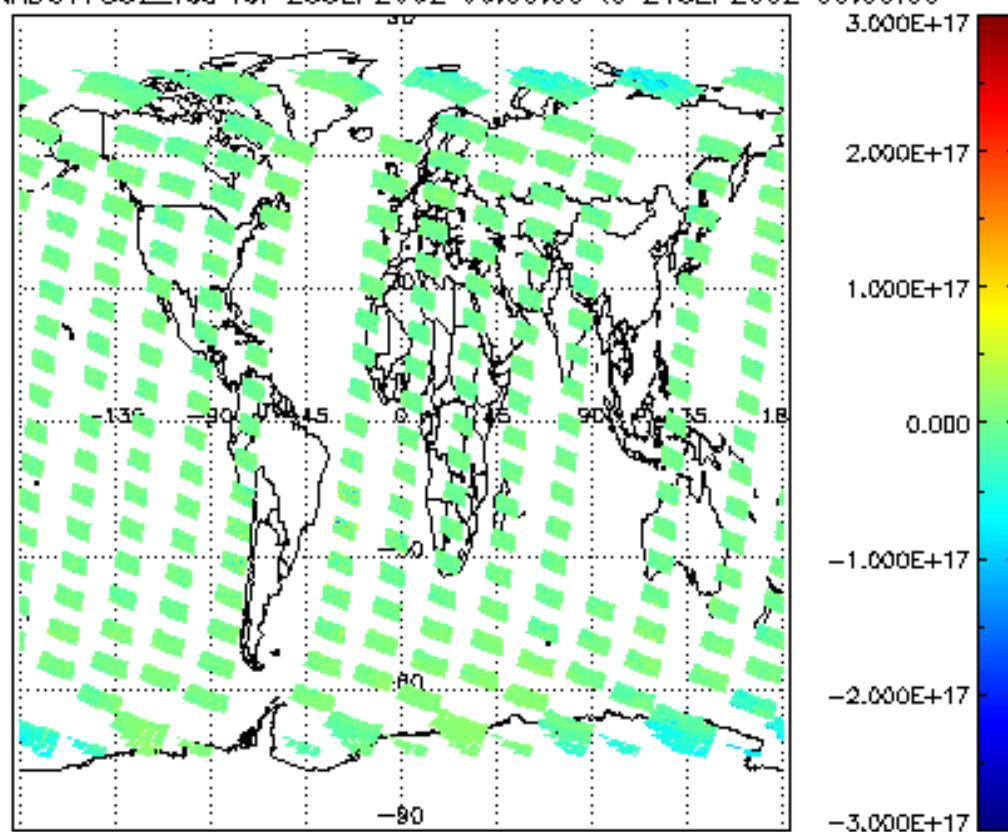
SCIOL2P_NADUV5S02_amf_gr for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



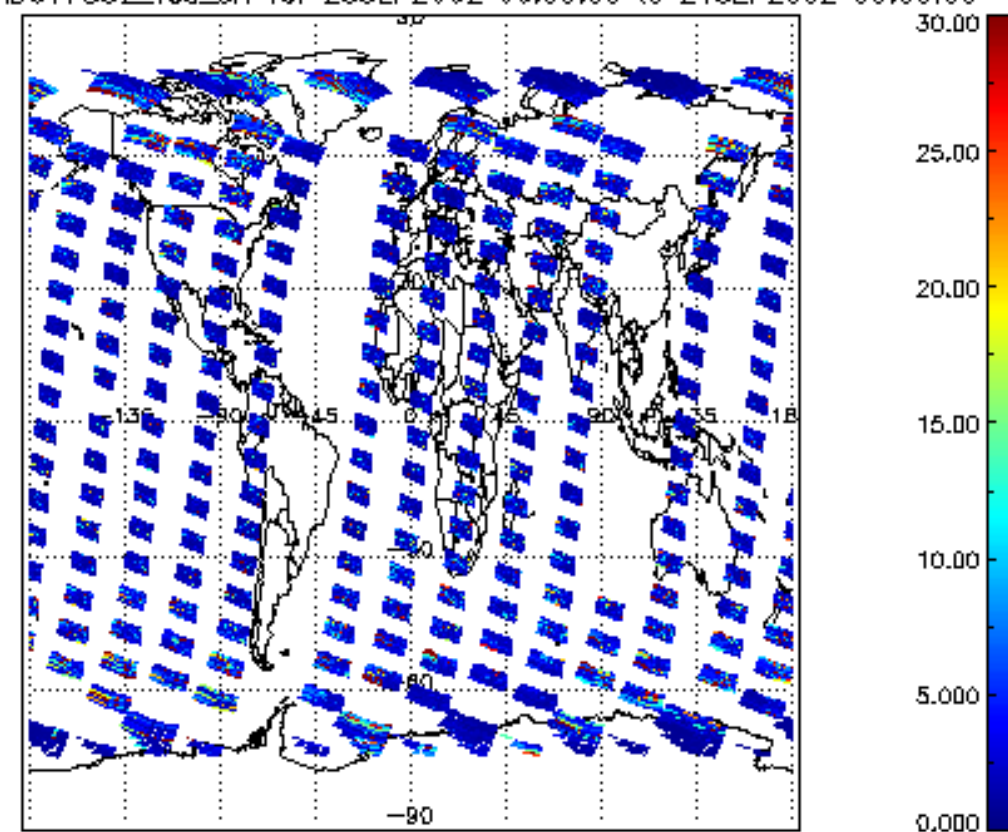
SCIOL2P_NADUV5S02_amf_cl for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



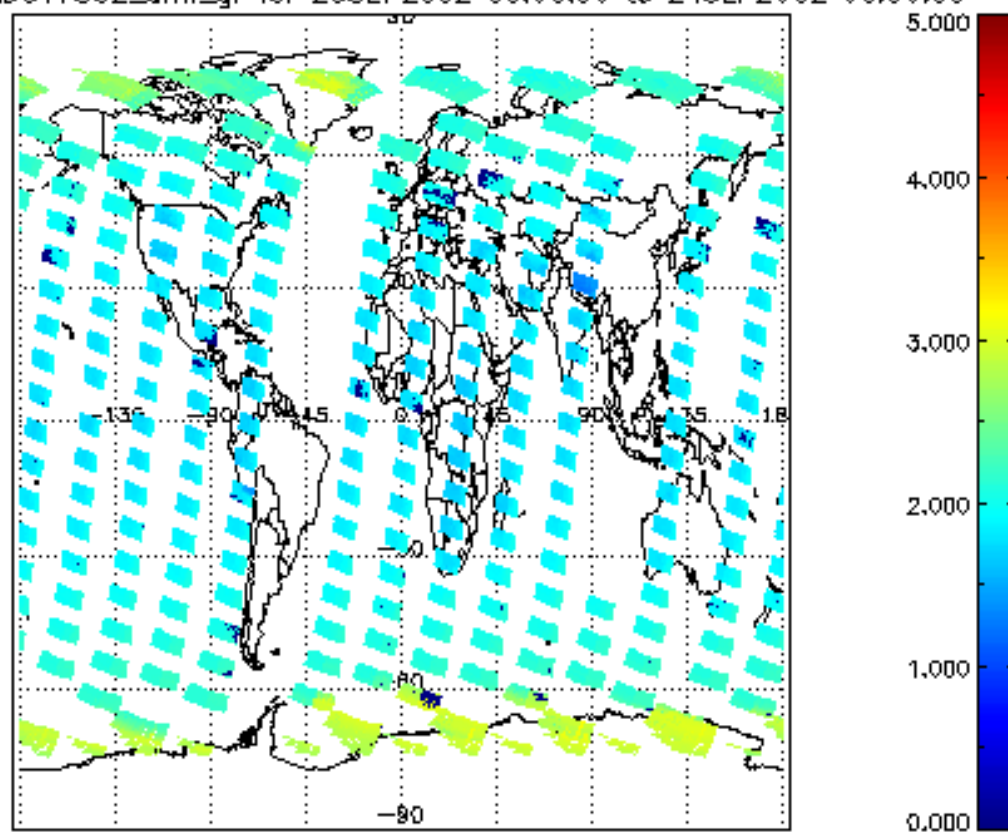
SCIOL2P_NADUV7S02_vcd for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



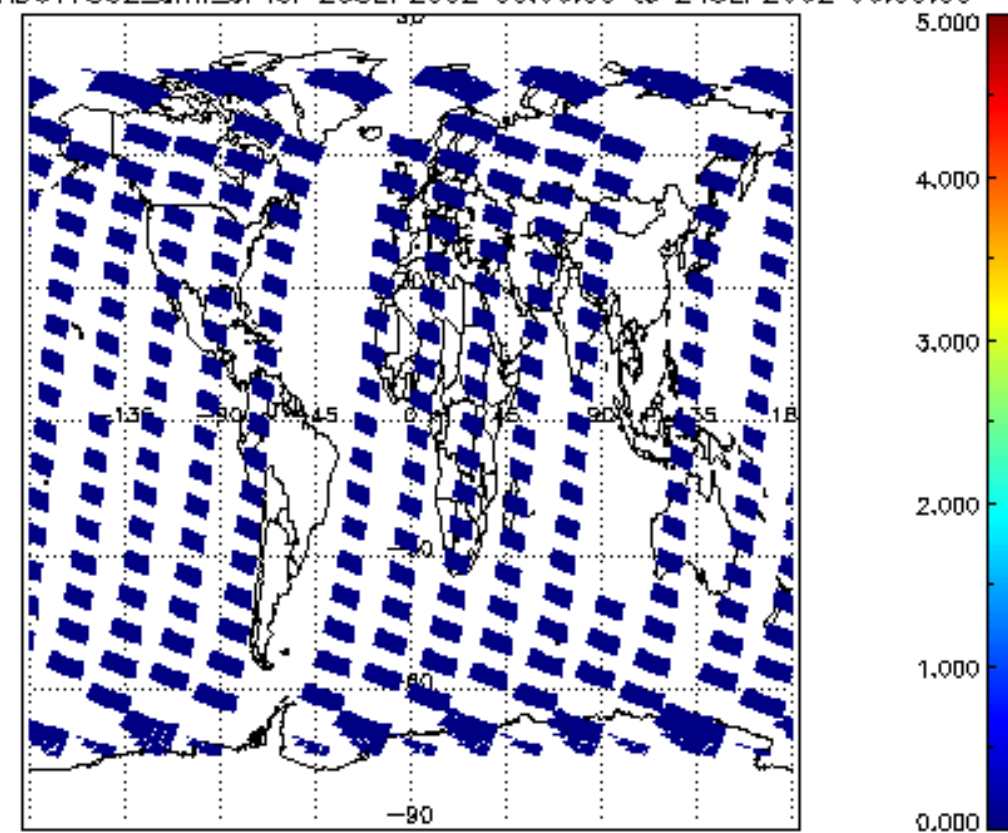
SCIOL2P_NADUV7S02_vcd_err for 23SEP2002 00:00:00 to 24SEP2002 00:00:00

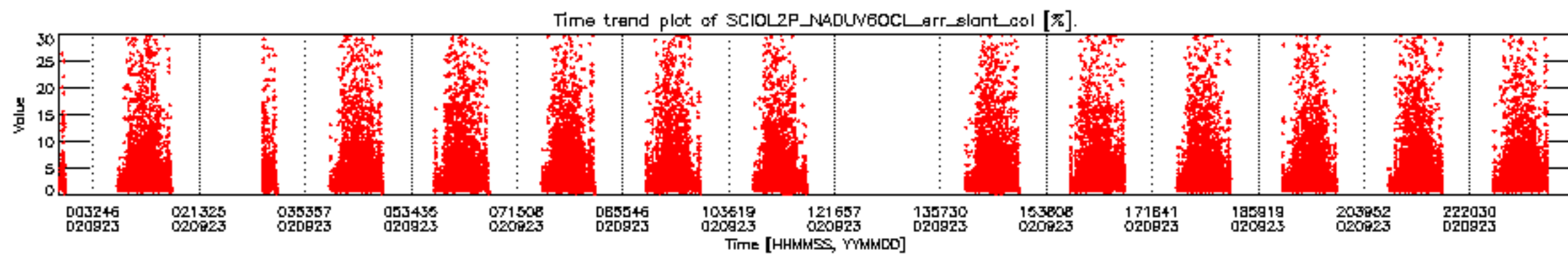
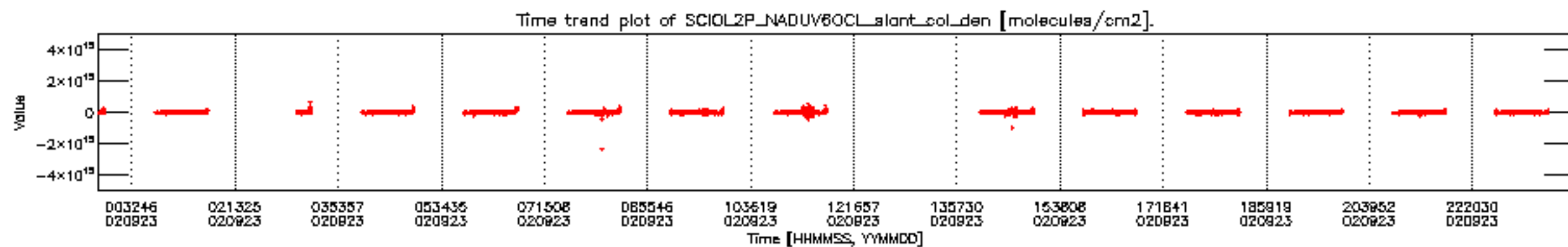


SCIOL2P_NADUV7S02_amf_gr for 23SEP2002 00:00:00 to 24SEP2002 00:00:00

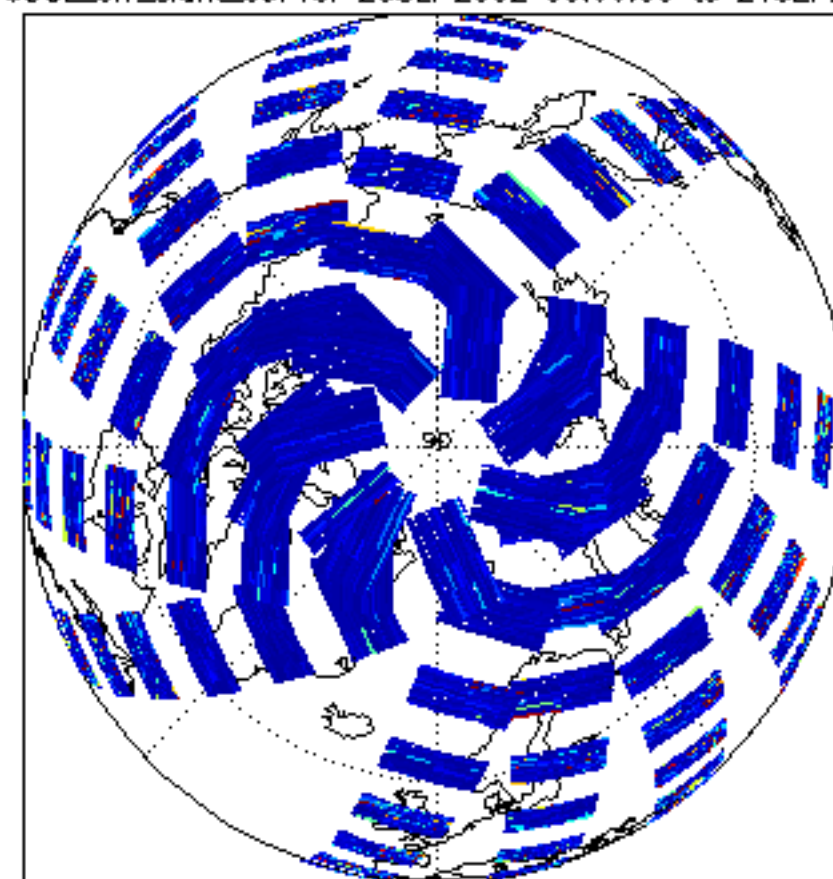
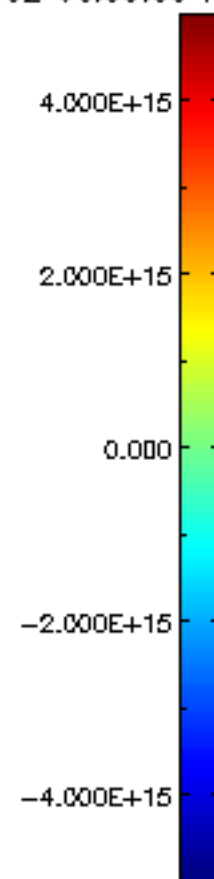
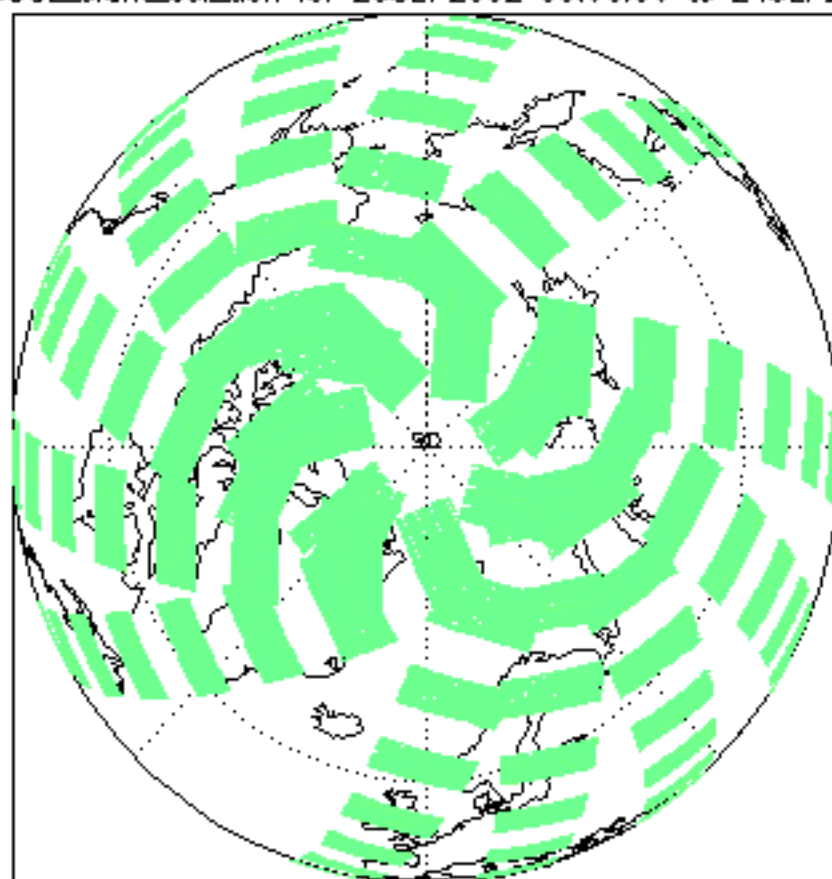


SCIOL2P_NADUV7S02_amf_cl for 23SEP2002 00:00:00 to 24SEP2002 00:00:00

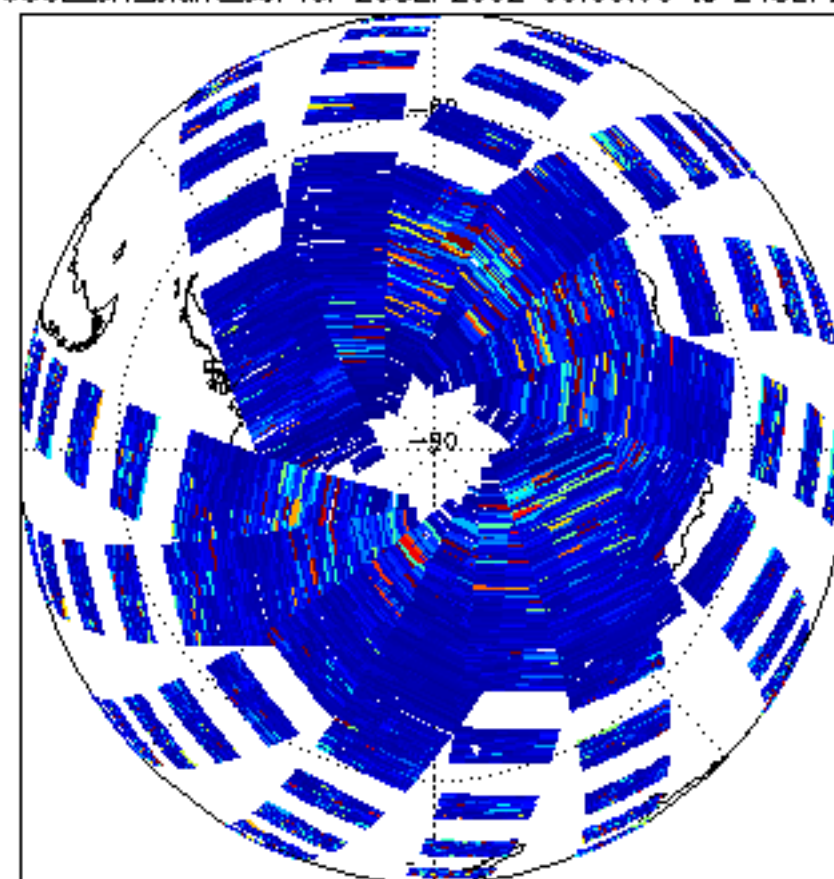
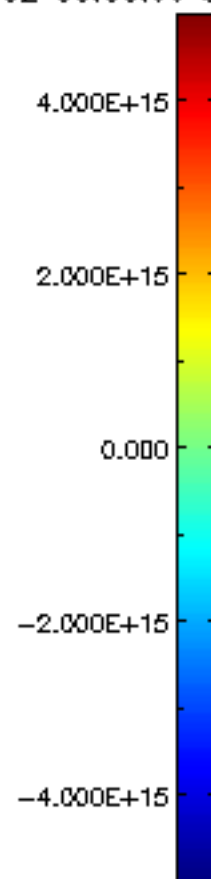
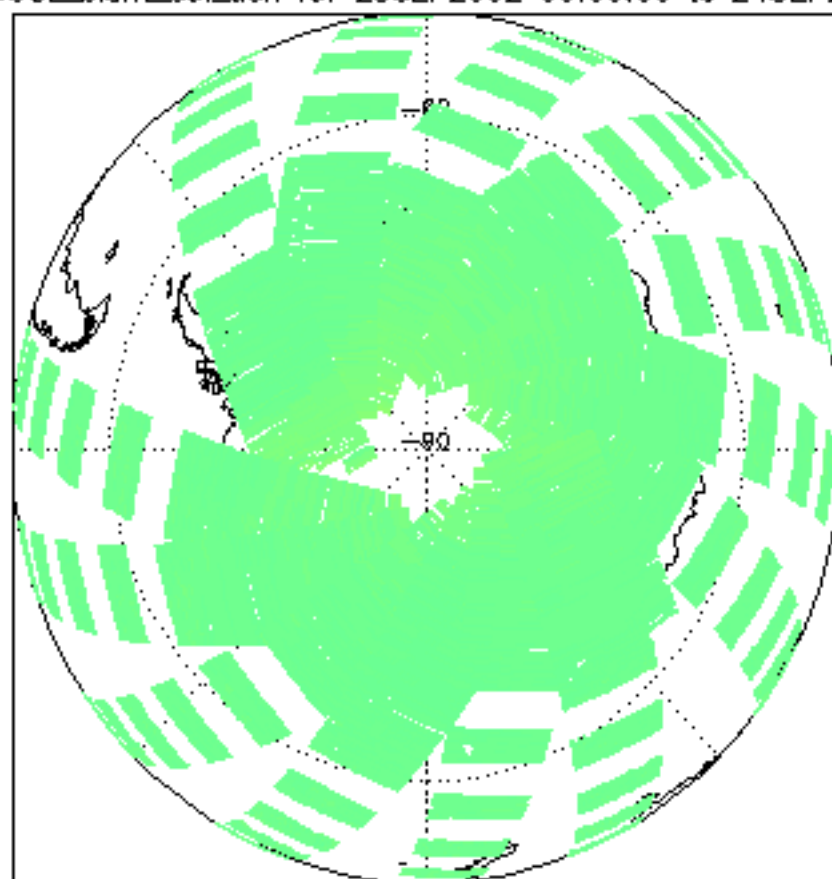




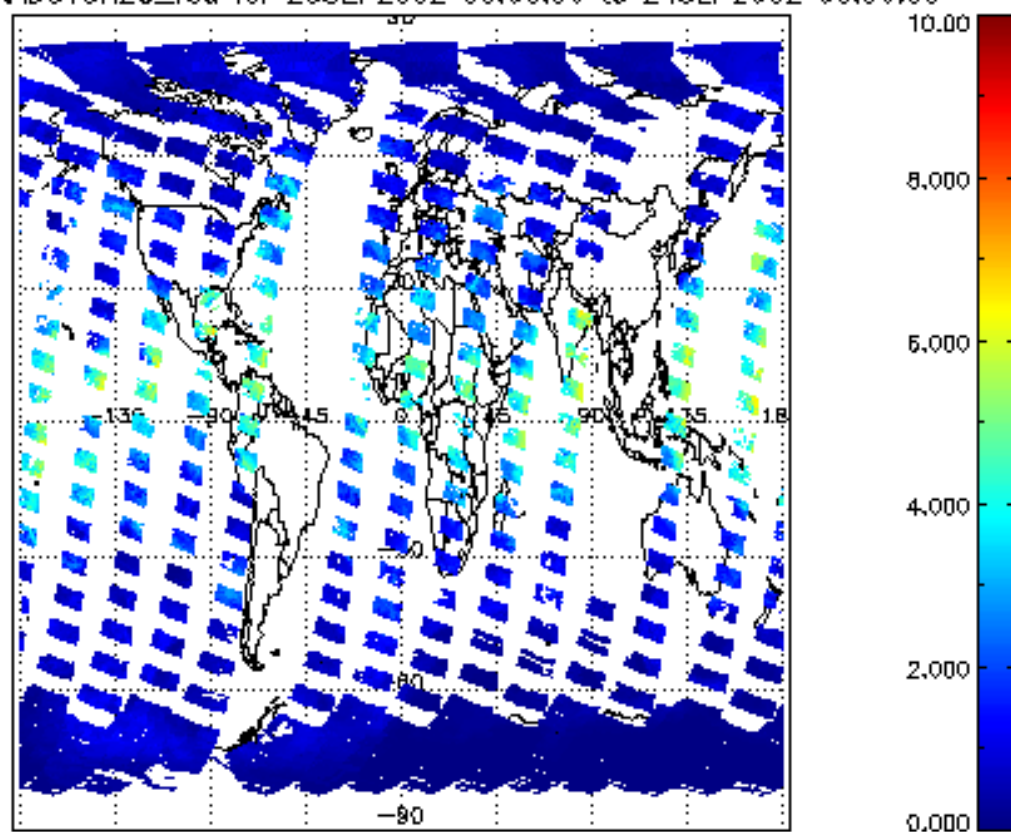
CIOL2P_NADUV60CL_slant_col_den for 23SEP2002 00:00:00 to 24SEP2002 00:00:00 np iCIOL2P_NADUV60CL_err_slant_col for 23SEP2002 00:00:00 to 24SEP2002 00:00:00 np



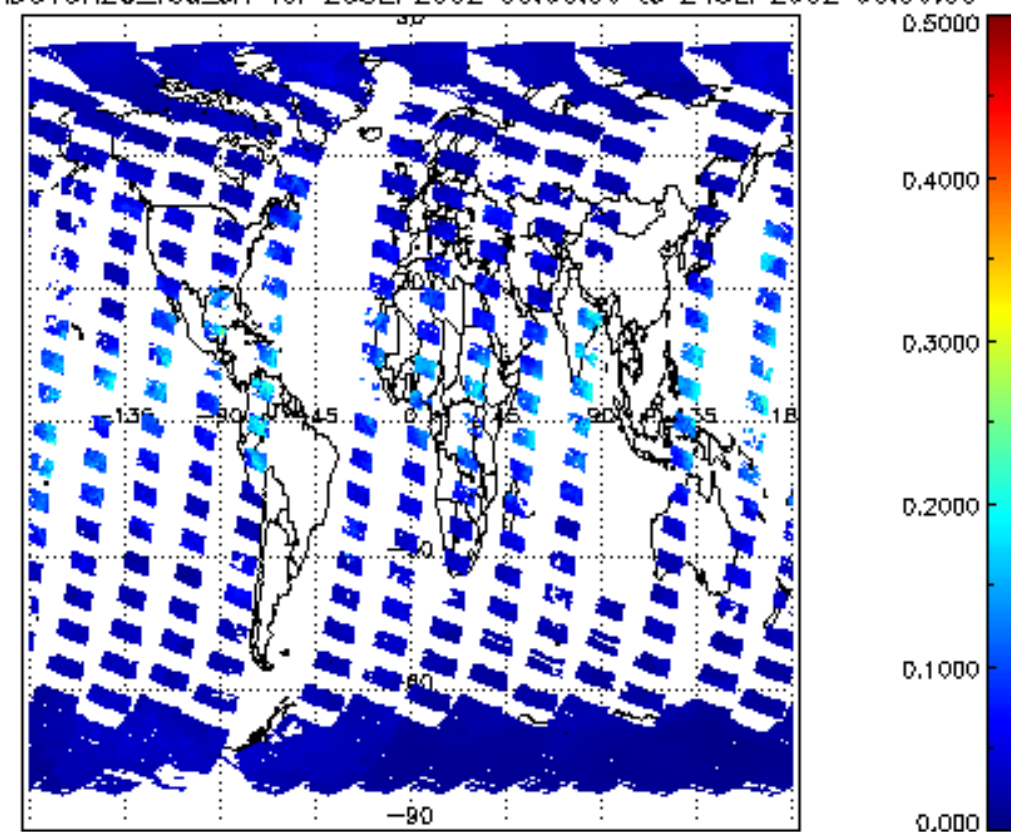
CIOL2P_NADUV60CL_slant_col_den for 23SEP2002 00:00:00 to 24SEP2002 00:00:00 sp iCIOL2P_NADUV60CL_err_slant_col for 23SEP2002 00:00:00 to 24SEP2002 00:00:00 sp



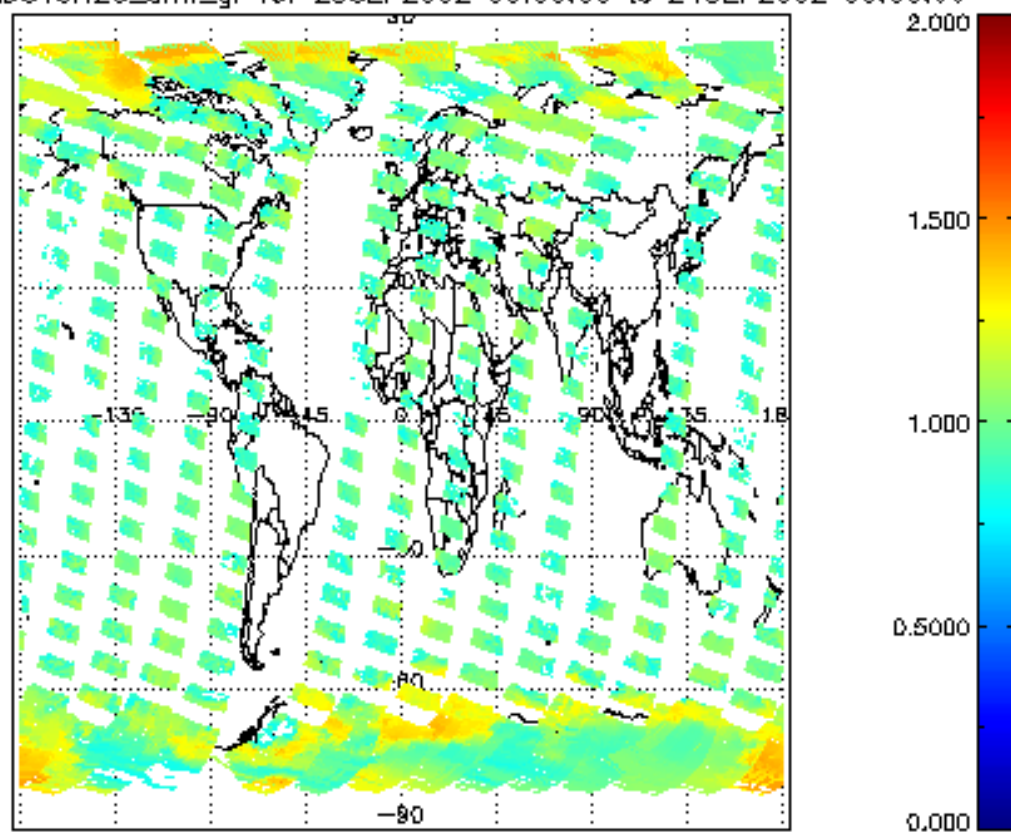
SCIOL2P_NADUV8H20_vcd for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



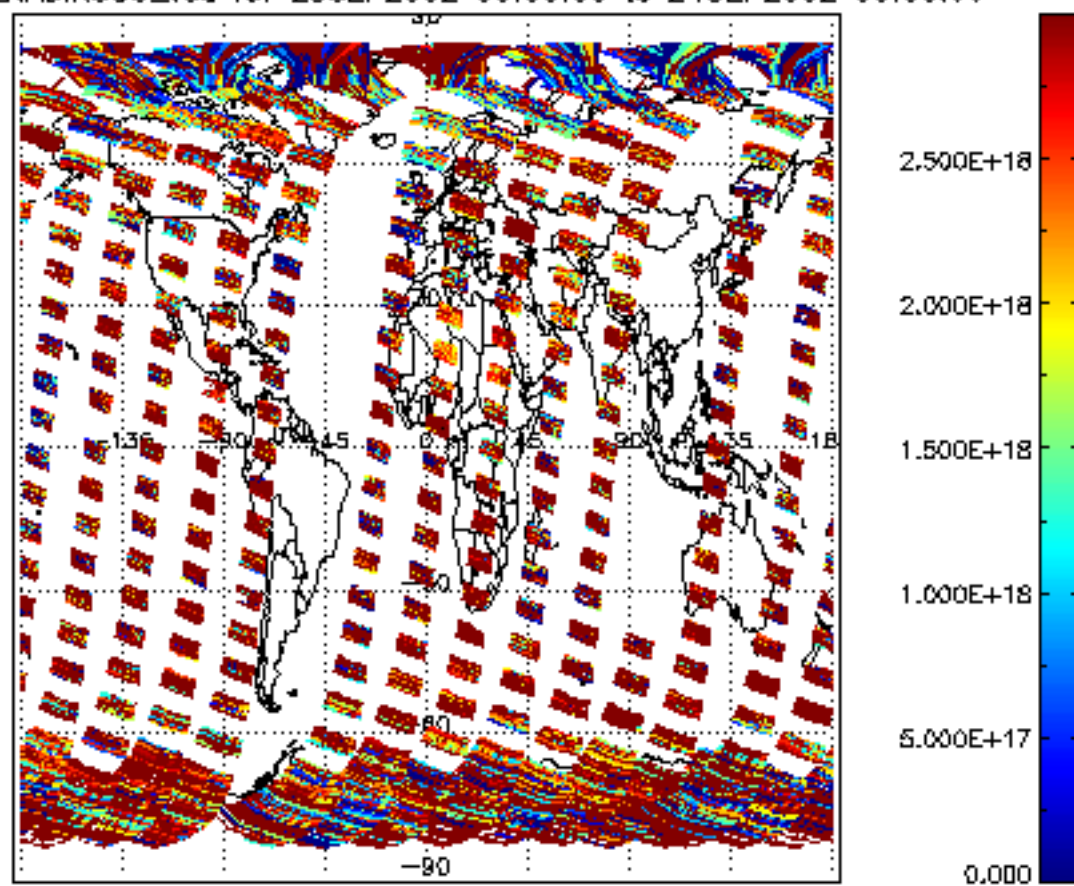
SCIOL2P_NADUV8H20_vcd_err for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



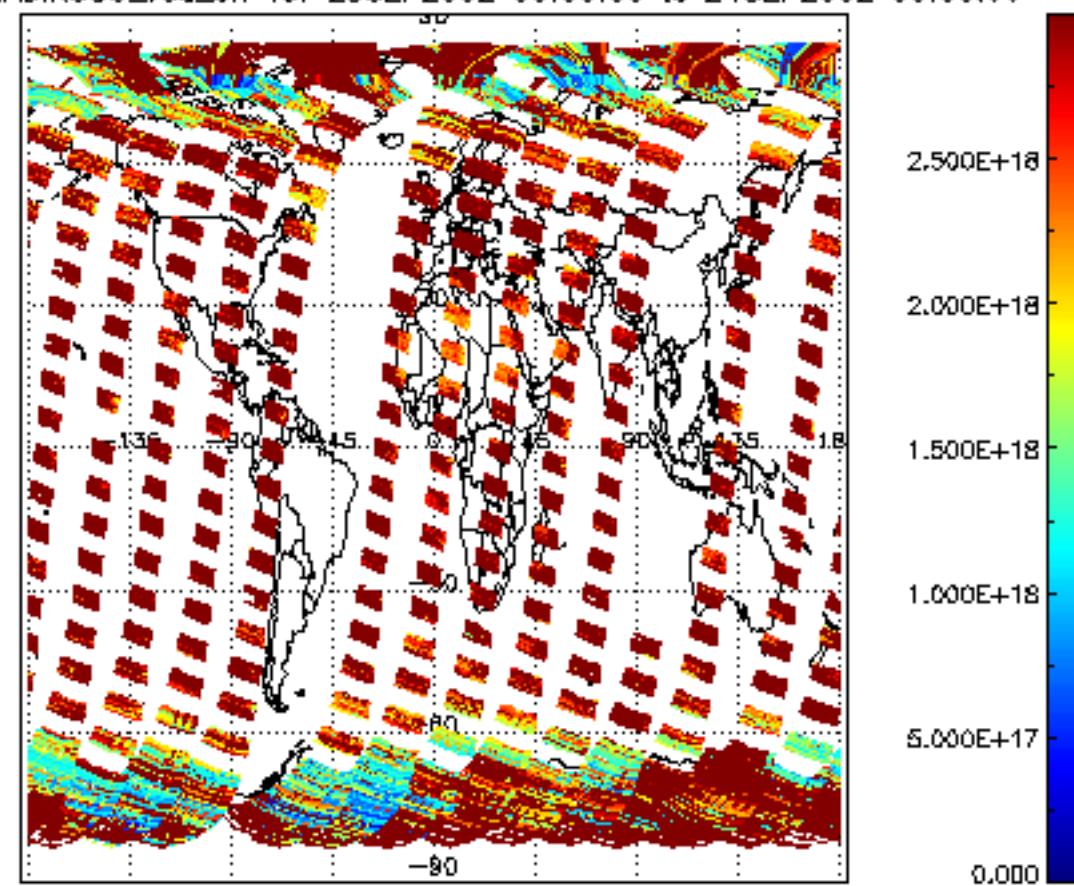
SCIOL2P_NADUV8H20_amf_gr for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



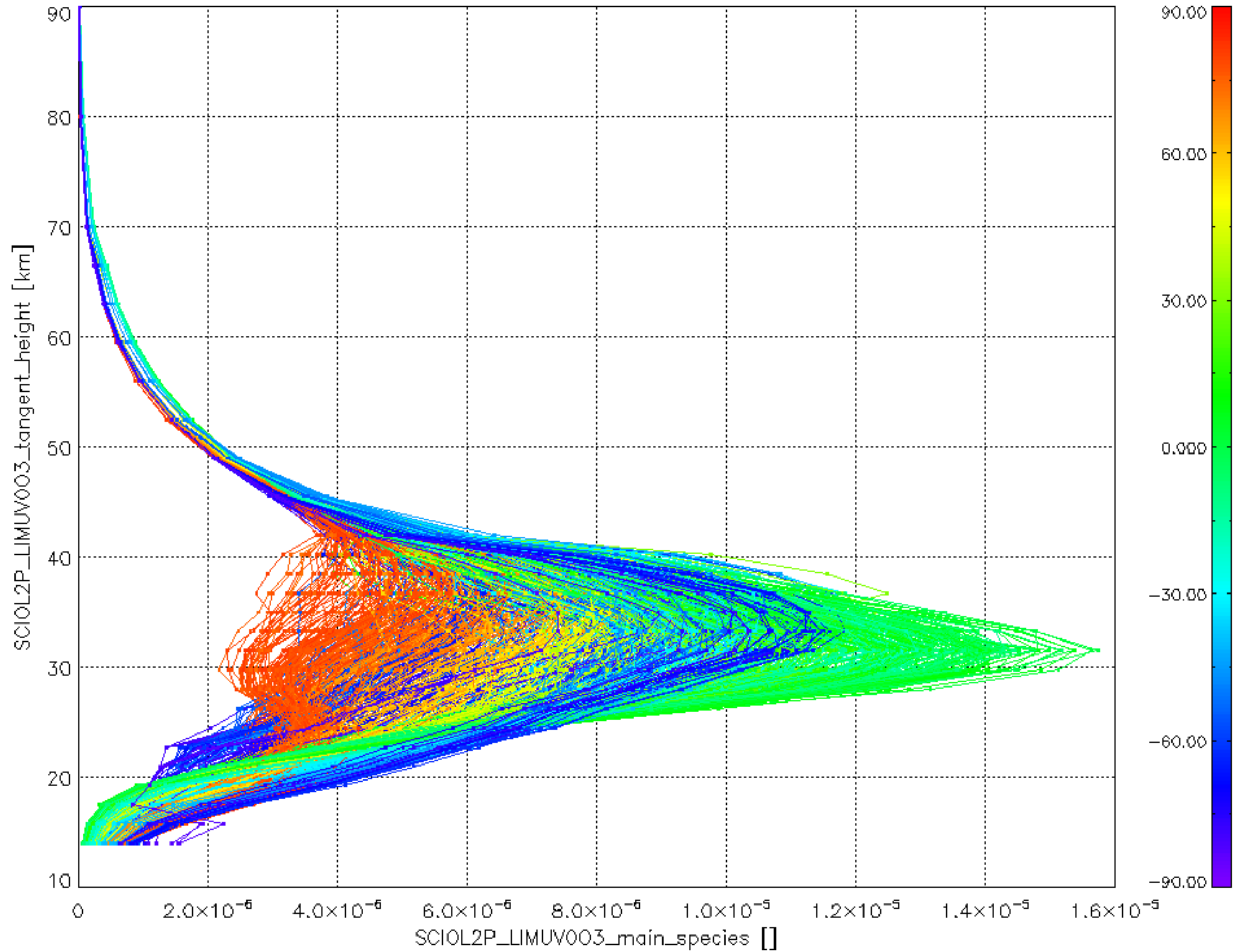
SCIOL2P_NADIR3CO_vcd for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



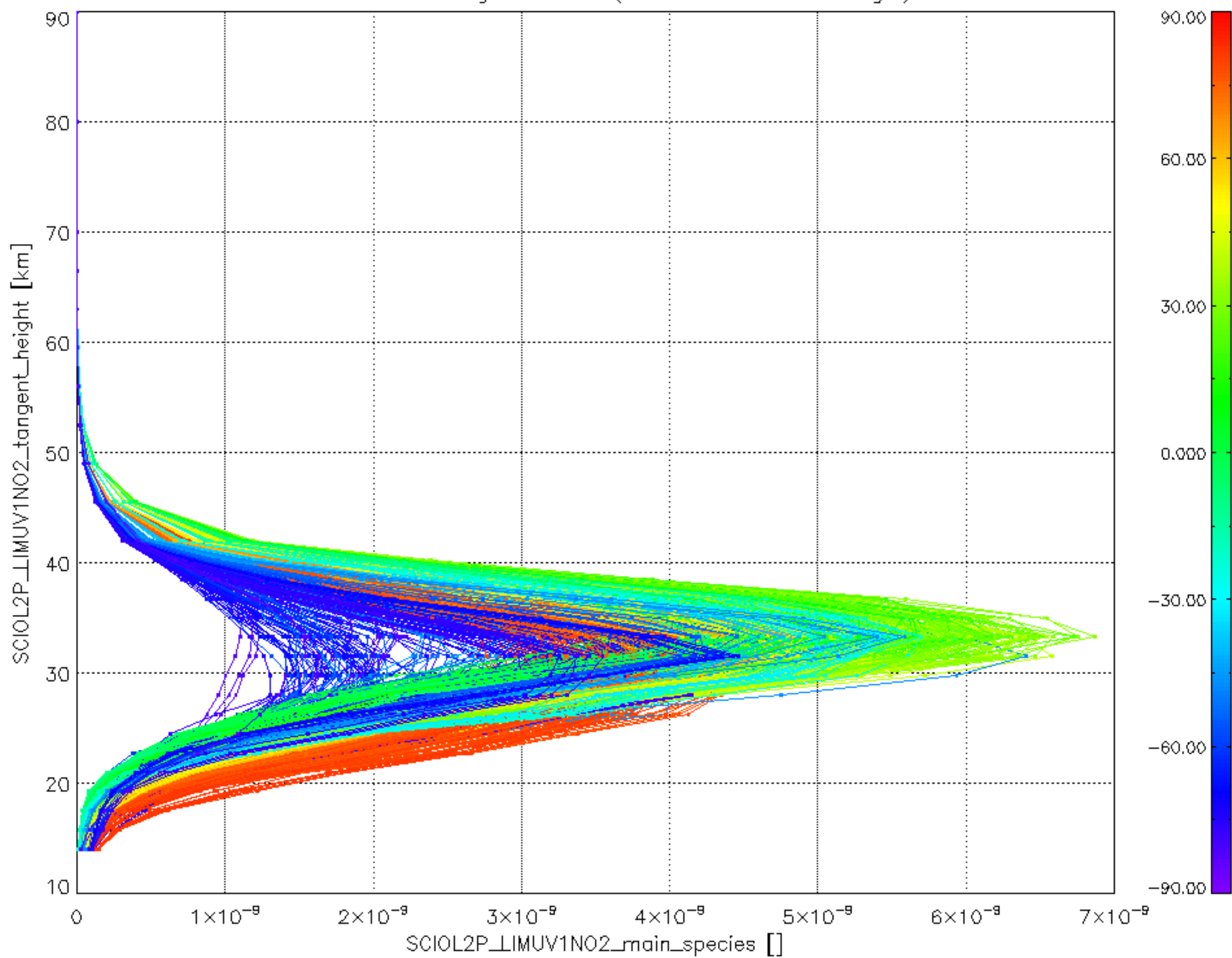
SCIOL2P_NADIR3CO_vcd_err for 23SEP2002 00:00:00 to 24SEP2002 00:00:00



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).

