

2. SCIAMACHY Daily Report for Level 2 products

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2.3 ADF monitoring

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 17:22:39
Data source version	SCIA-OL/5.02-W
Processing scope for products	30SEP2002 00:00:00 to 01OCT2002 00:00:00
Start time of first product within scope	29SEP2002 22:49:02
Stop time of last product within scope	01OCT2002 00:57:03
Total number of level 2 products	16
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__2PWDPA20020929_224902_000034492009_00488_03047_1911.N1	29SEP2002 22:49:02	29SEP2002 23:46:32	0	GOOD
1	SCI_OL__2PWDPA20020930_002959_000035332009_00489_03048_1912.N1	30SEP2002 00:29:59	30SEP2002 01:28:52	0	GOOD
2	SCI_OL__2PWDPA20020930_021035_000034492009_00490_03049_1913.N1	30SEP2002 02:10:35	30SEP2002 03:08:05	0	GOOD
3	SCI_OL__2PWDPA20020930_035052_000035332009_00491_03050_1914.N1	30SEP2002 03:50:52	30SEP2002 04:49:45	0	GOOD
4	SCI_OL__2PWDPA20020930_053128_000034492009_00492_03051_1915.N1	30SEP2002 05:31:28	30SEP2002 06:28:58	0	GOOD

5	SCI_OL__2PWDP A20020930_073028_000024292009_00493_03052_1916.N1	30SEP2002 07:30:28	30SEP2002 08:10:58	0	GOOD
6	SCI_OL__2PWDP A20020930_085241_000005392009_00494_03053_1917.N1	30SEP2002 08:52:41	30SEP2002 09:01:41	0	GOOD
7	SCI_OL__2PWDP A20020930_104015_000031152009_00495_03054_1918.N1	30SEP2002 10:40:15	30SEP2002 11:32:11	0	GOOD
8	SCI_OL__2PWDP A20020930_121354_000034492009_00496_03055_1919.N1	30SEP2002 12:13:54	30SEP2002 13:11:24	0	GOOD
9	SCI_OL__2PWDP A20020930_135431_000035332009_00497_03056_1920.N1	30SEP2002 13:54:31	30SEP2002 14:53:24	0	GOOD
10	SCI_OL__2PWDP A20020930_153507_000034492009_00498_03057_1921.N1	30SEP2002 15:35:07	30SEP2002 16:32:37	0	GOOD
11	SCI_OL__2PWDP A20020930_171616_000035142009_00499_03058_1922.N1	30SEP2002 17:16:16	30SEP2002 18:14:50	0	GOOD
12	SCI_OL__2PWDP A20020930_185640_000034492009_00500_03059_1923.N1	30SEP2002 18:56:40	30SEP2002 19:54:10	0	GOOD
13	SCI_OL__2PWDP A20020930_203657_000035332009_00501_03060_1924.N1	30SEP2002 20:36:57	30SEP2002 21:35:50	0	GOOD
14	SCI_OL__2PWDP A20020930_221733_000034492010_00001_03061_1925.N1	30SEP2002 22:17:33	30SEP2002 23:15:03	0	GOOD
15	SCI_OL__2PWDP A20020930_235810_000035332010_00002_03062_1926.N1	30SEP2002 23:58:10	01OCT2002 00:57:03	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: 98620

Total number of cloud data DSRs with good quality flag (=0): 98620 (100.0 %)

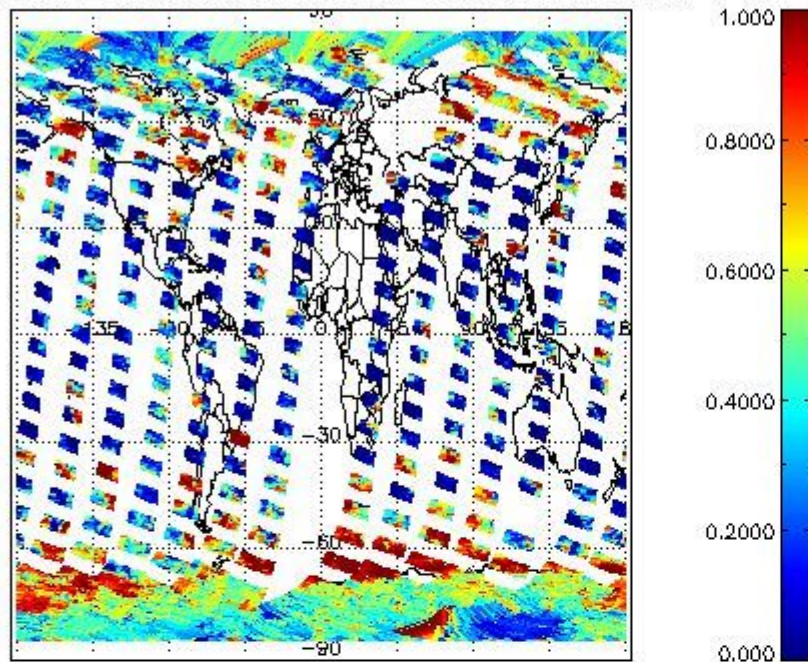
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	98620	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	98620	0.22668	0.25000	0.12500	1.0000	0.10471	s
CL_FRAC	98620	0.40653	0.36942	0.0000	1.0000	0.33502	
CL_FRAC_ERR	98620	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	98620	7.2537	8.0000	4.0000	32.000	3.3508	
PMD_READ_CL[0]	98620	0.79072	0.0000	0.0000	32.000	2.0875	-
PMD_READ_CL[1]	98620	1.8749	0.0000	0.0000	32.000	2.9899	-
CL_TOP_HEIGHT	86861	3.2752	1.7430	0.0000	17.000	3.5997	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	86861	52.186	42.874	0.0000	101.00	40.646	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	98620	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	98620	11001011	11000100	11000000	11100000	3391.5	
AERO_ABSO_IND	98620	0.16240	0.0000	0.0000	14.272	0.45177	
AERO_IND_DIAG	98620	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	98620	01101101	11000000	00000000	11000000	24314.	

Time and geolocation plots:

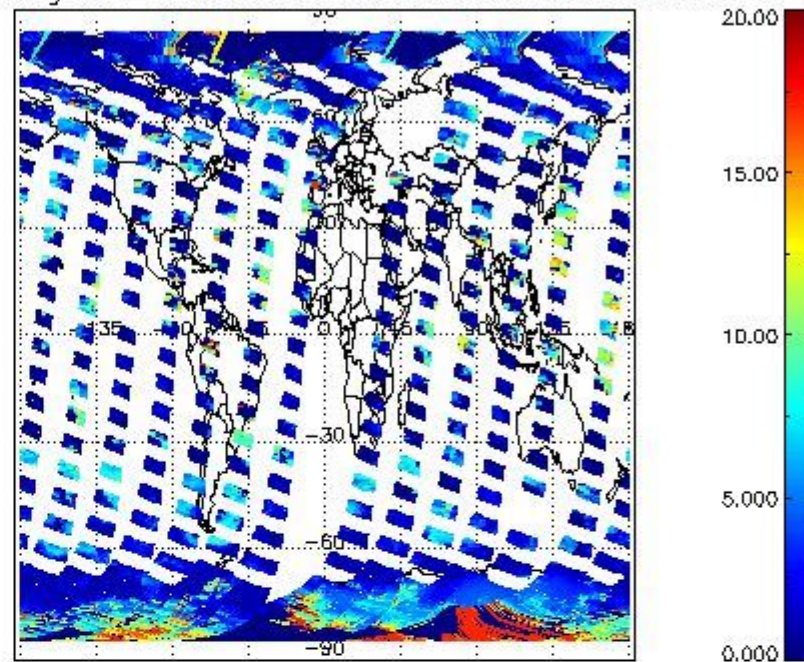
Plots are available for the following parameters:

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

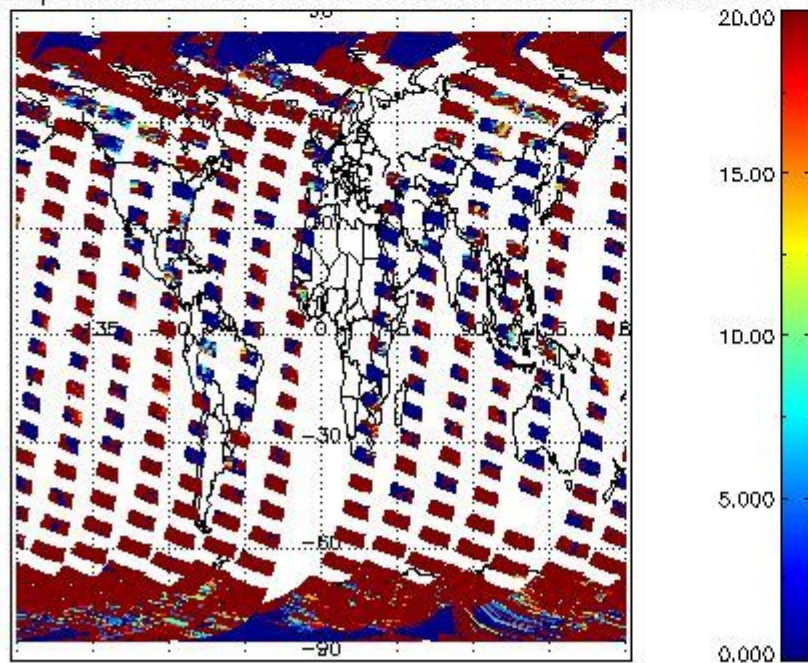
cLfrac for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



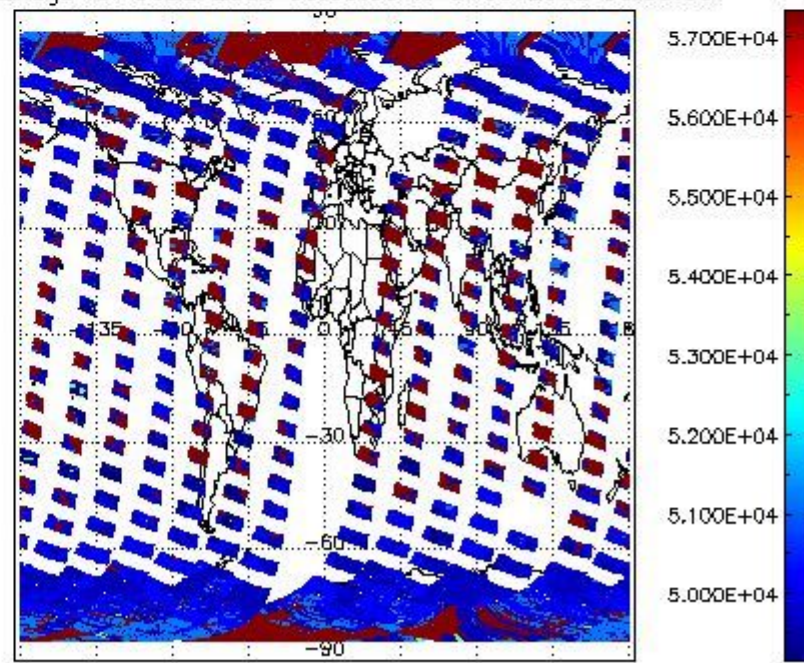
cL_top_height for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



cLopt_depth for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



cloud_flags for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



2.2.2 Nadir

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

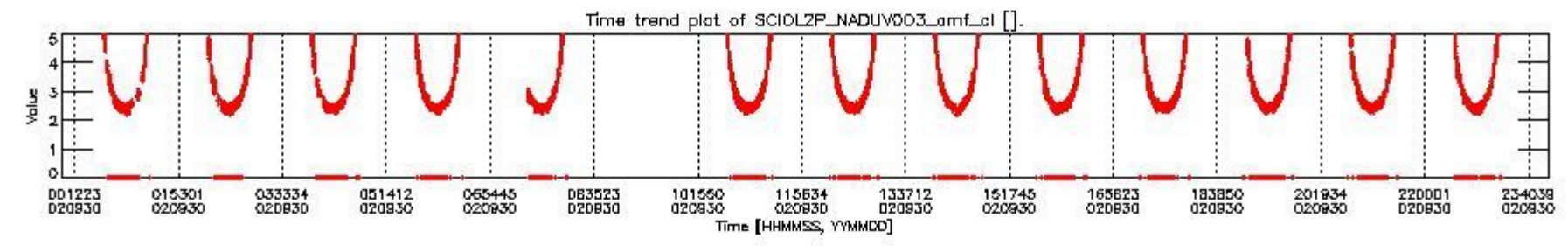
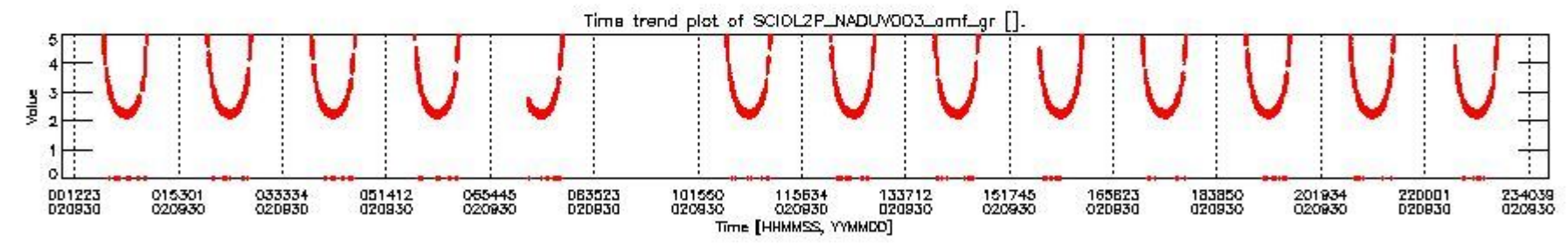
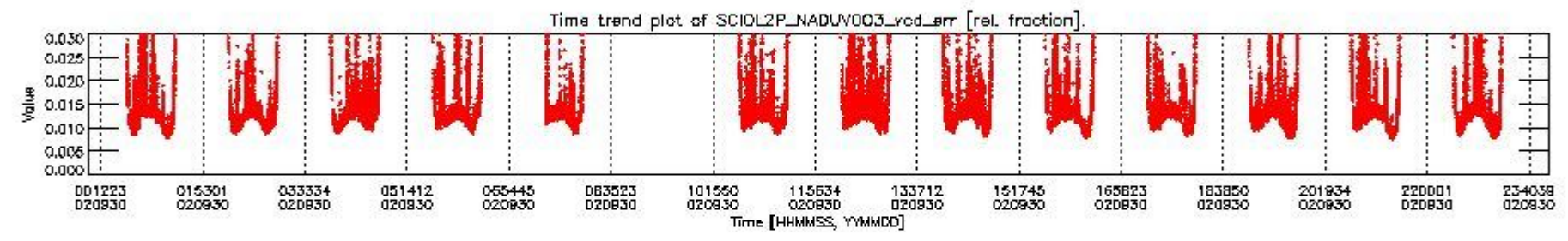
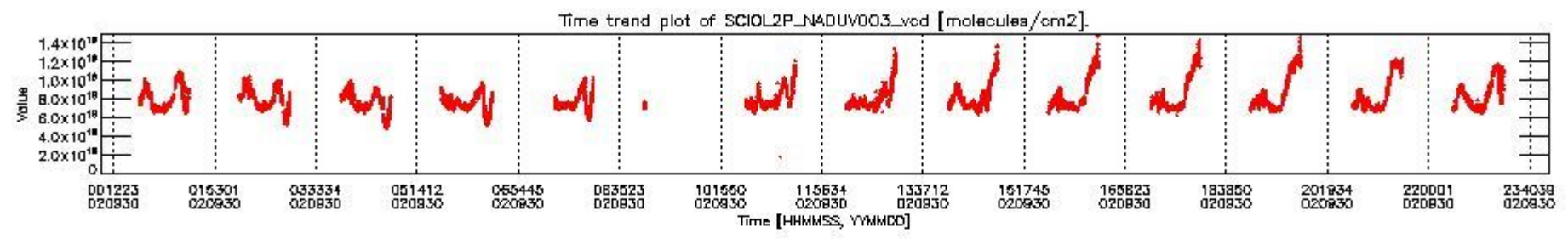
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

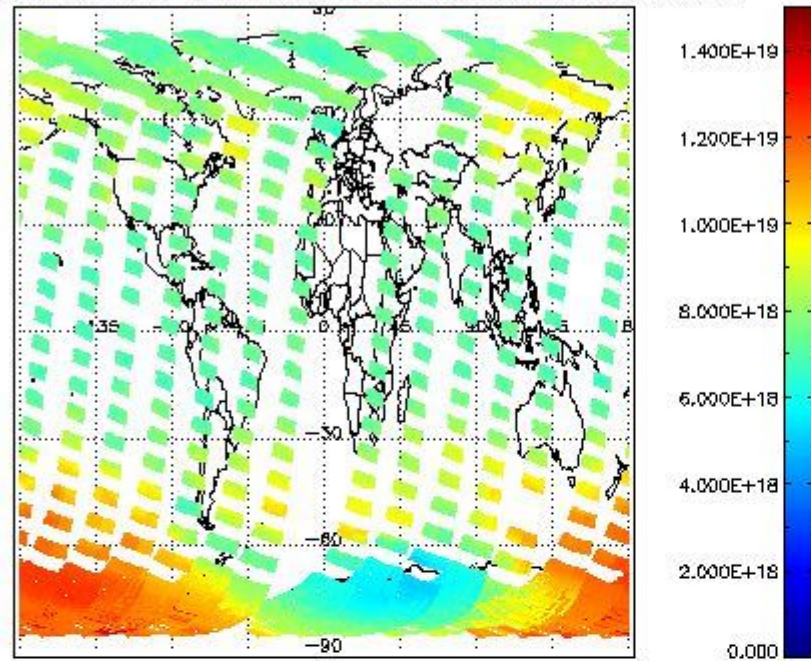
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

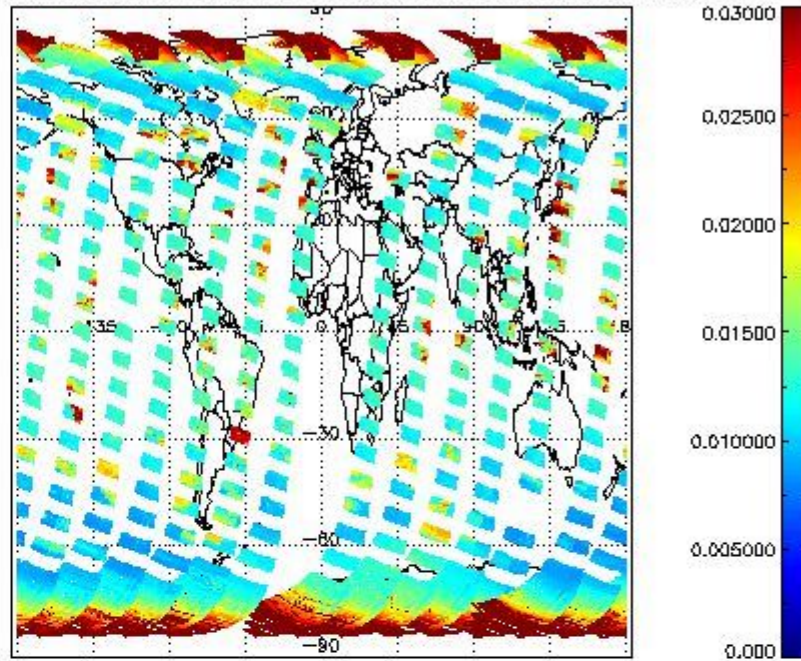
2.2.2.1 O3 (UV0)



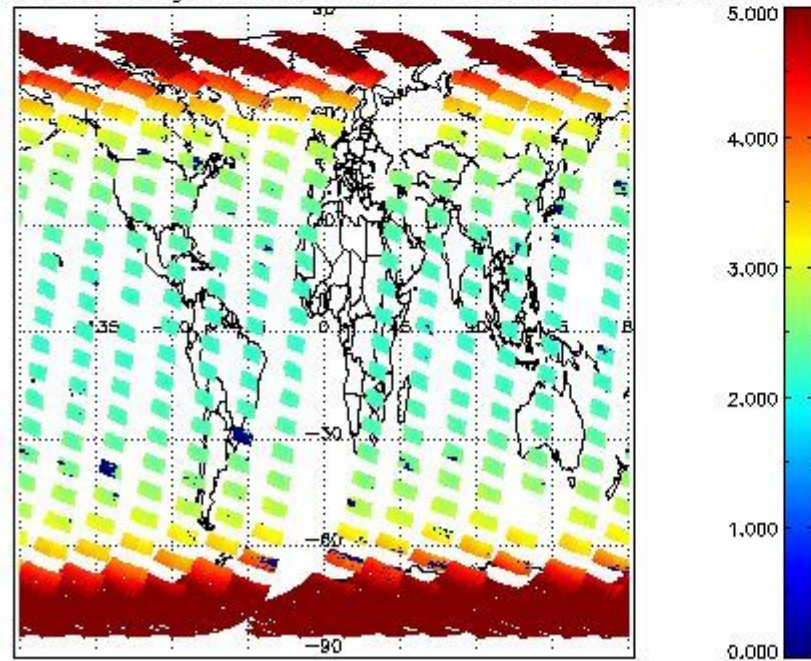
SCIOL2P_NADUV003_vcd for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



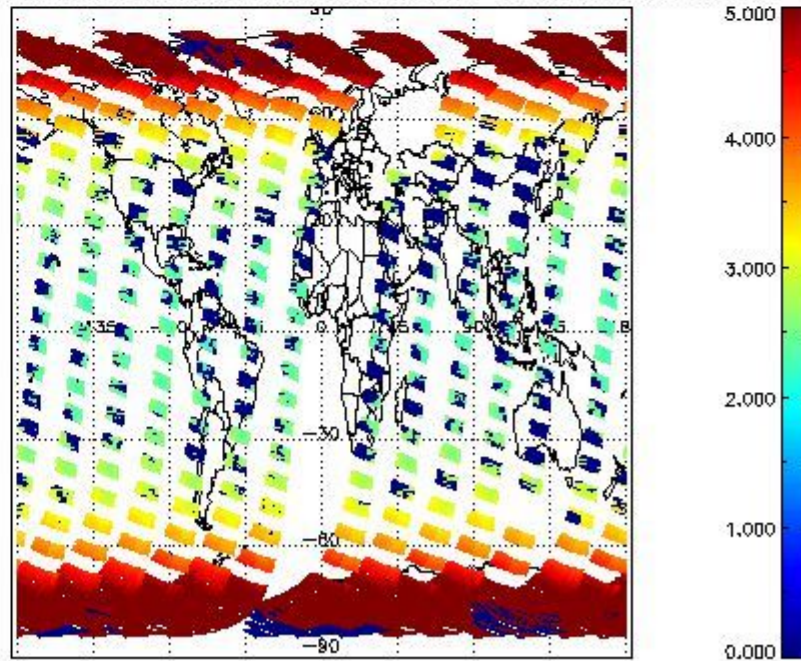
SCIOL2P_NADUV003_vcd_err for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



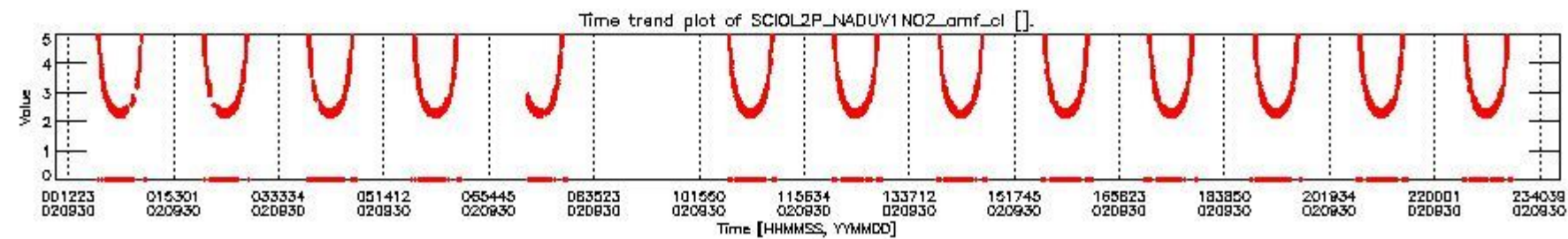
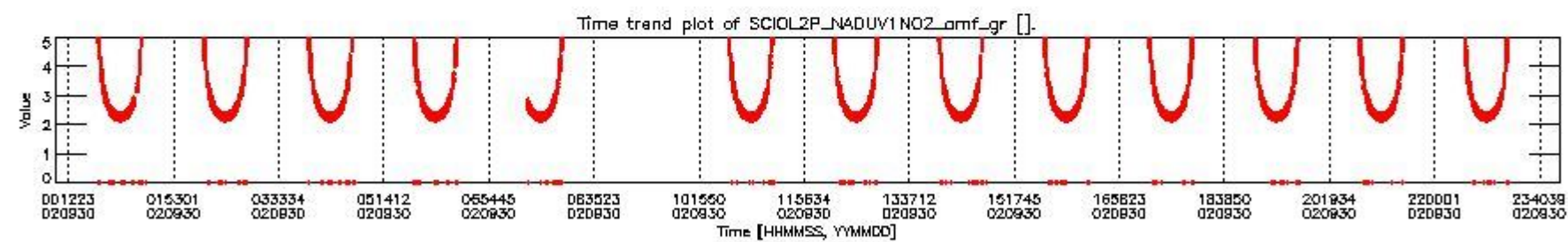
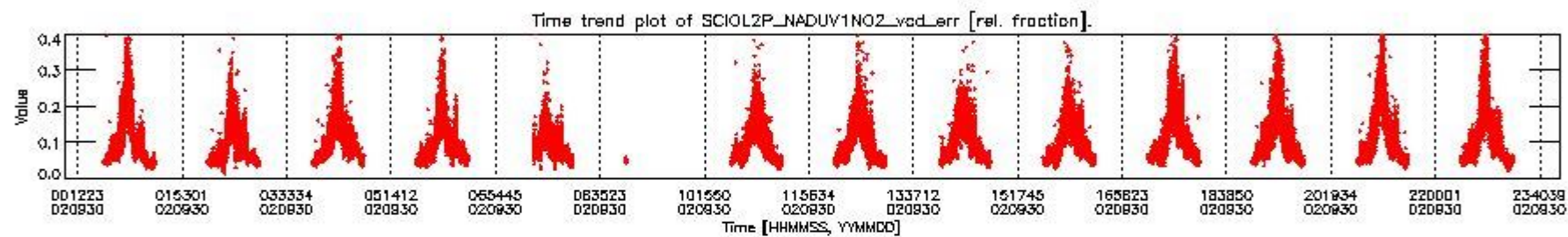
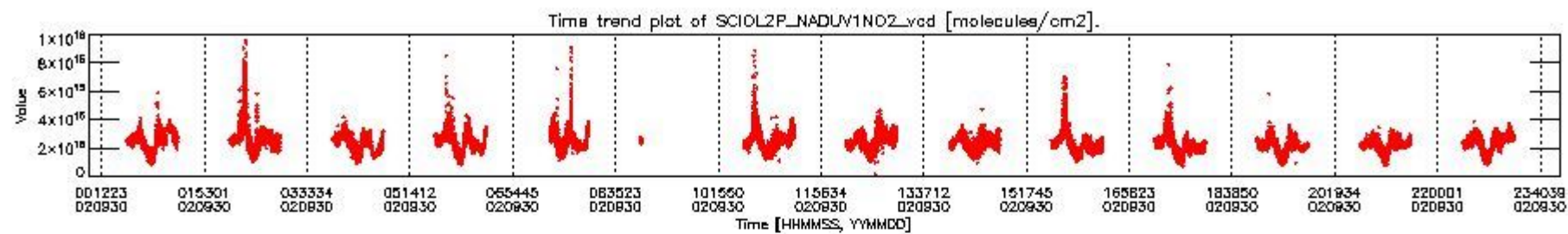
SCIOL2P_NADUV003_amf_gr for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



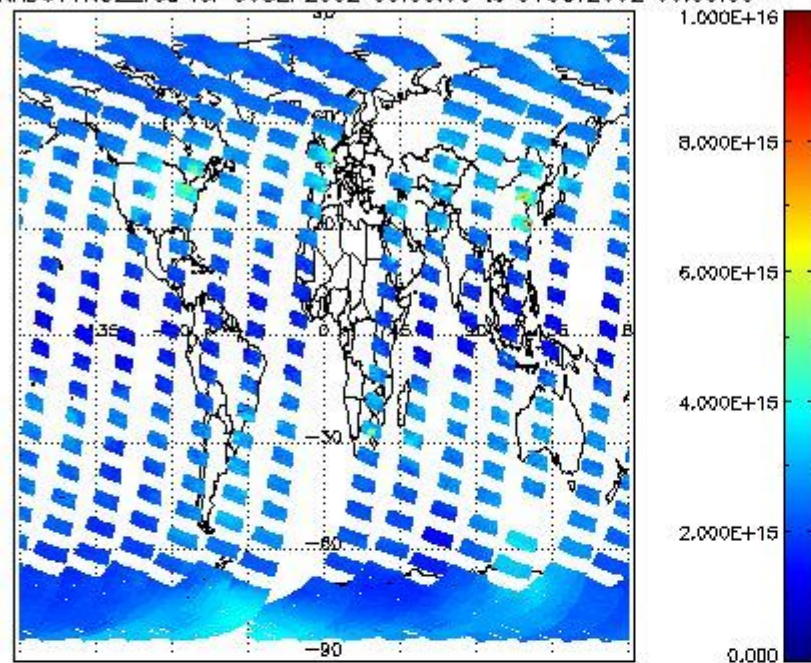
SCIOL2P_NADUV003_amf_cl for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



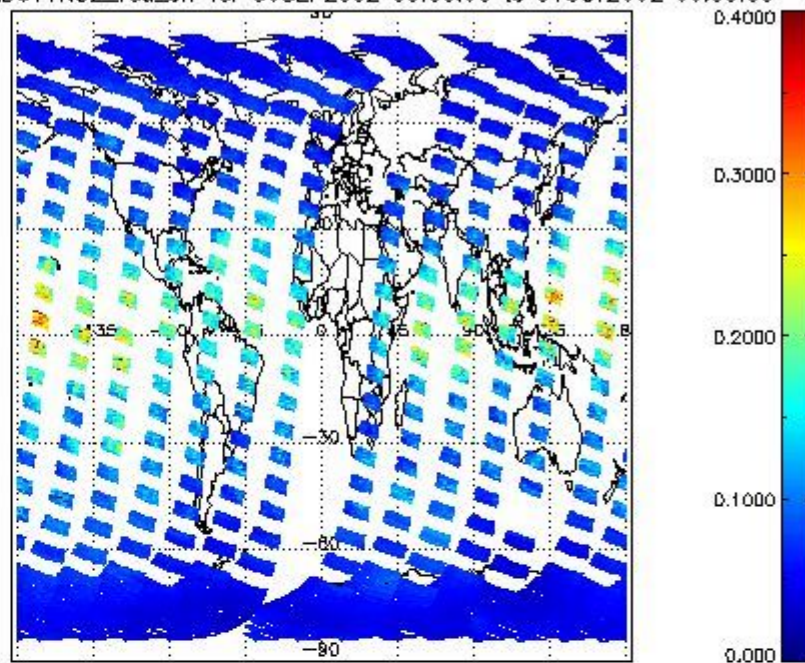
2.2.2.2 NO2 (UV1)



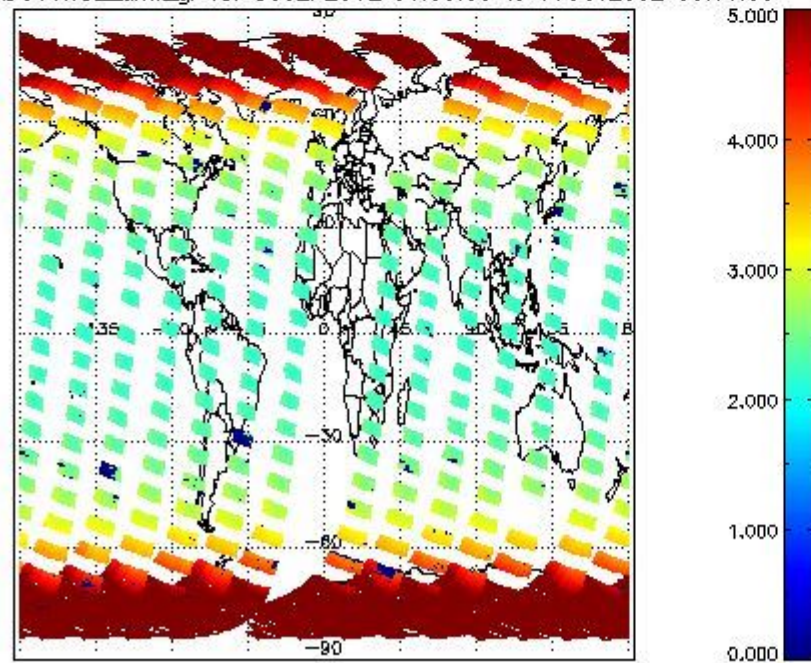
SCIOL2P_NADUV1NO2_vcd for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



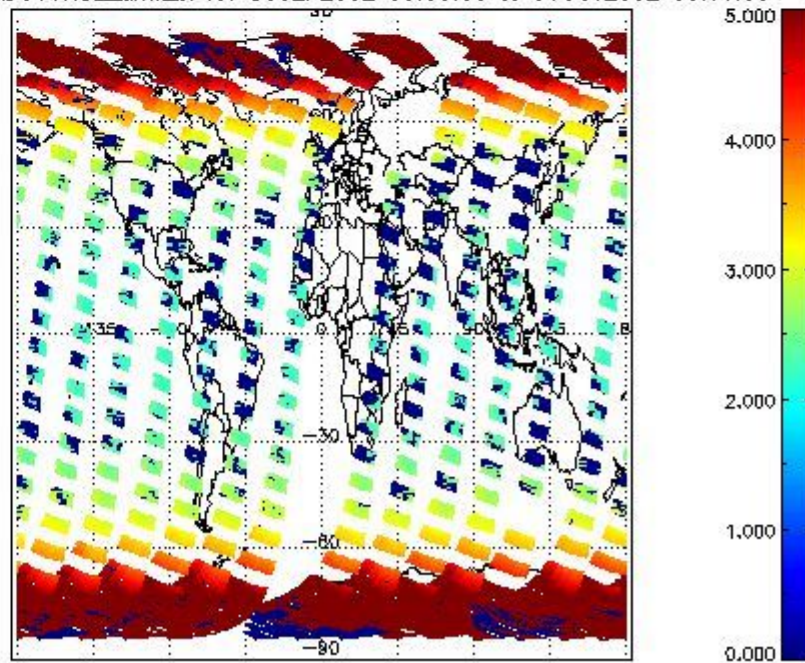
SCIOL2P_NADUV1NO2_vcd_err for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



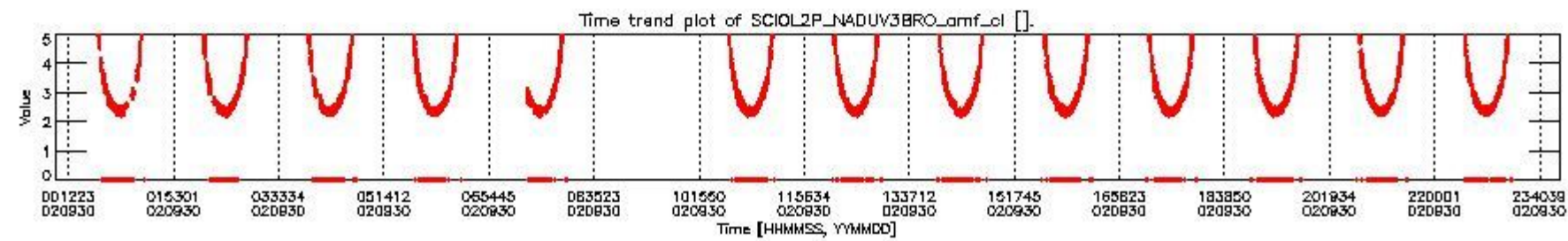
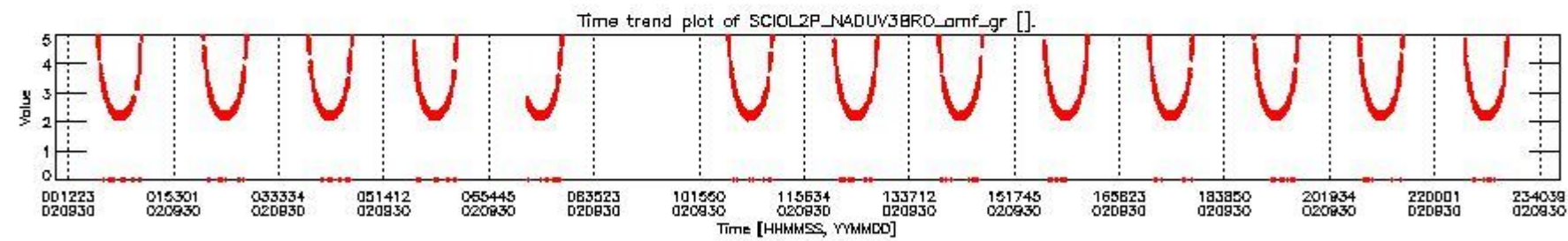
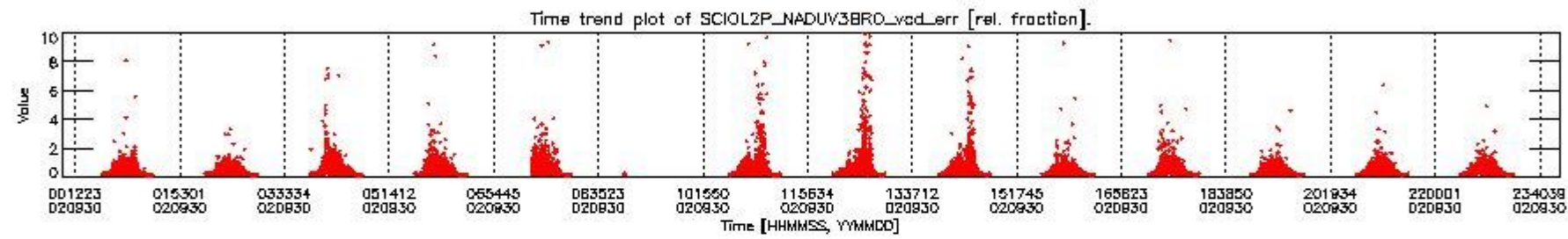
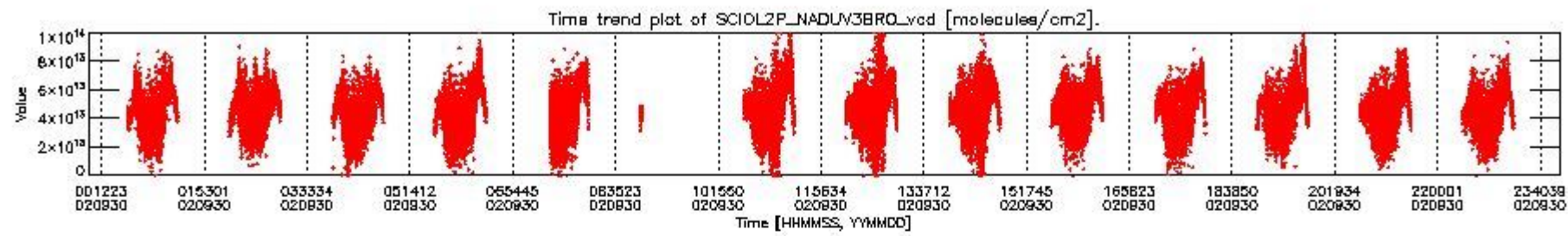
SCIOL2P_NADUV1NO2_amf_gr for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



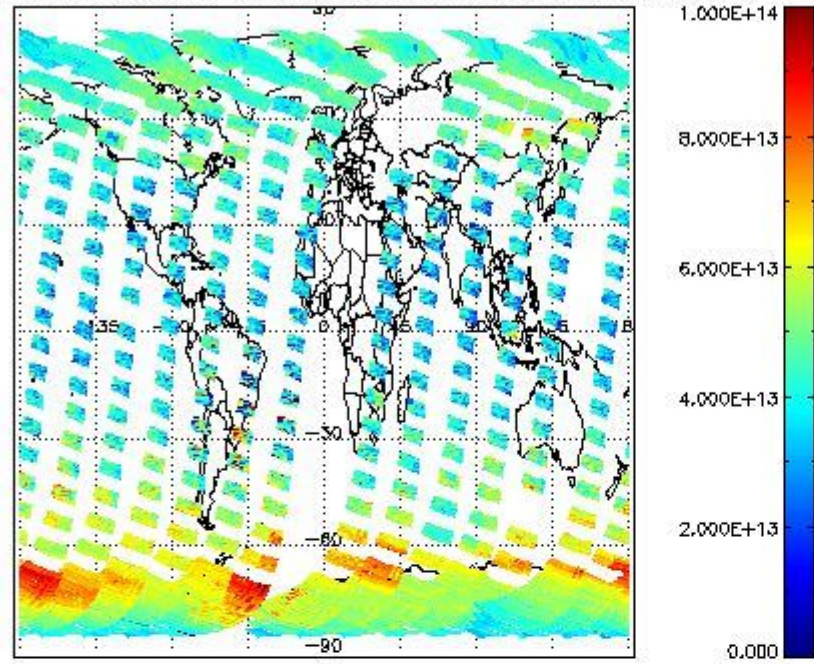
SCIOL2P_NADUV1NO2_amf_cl for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



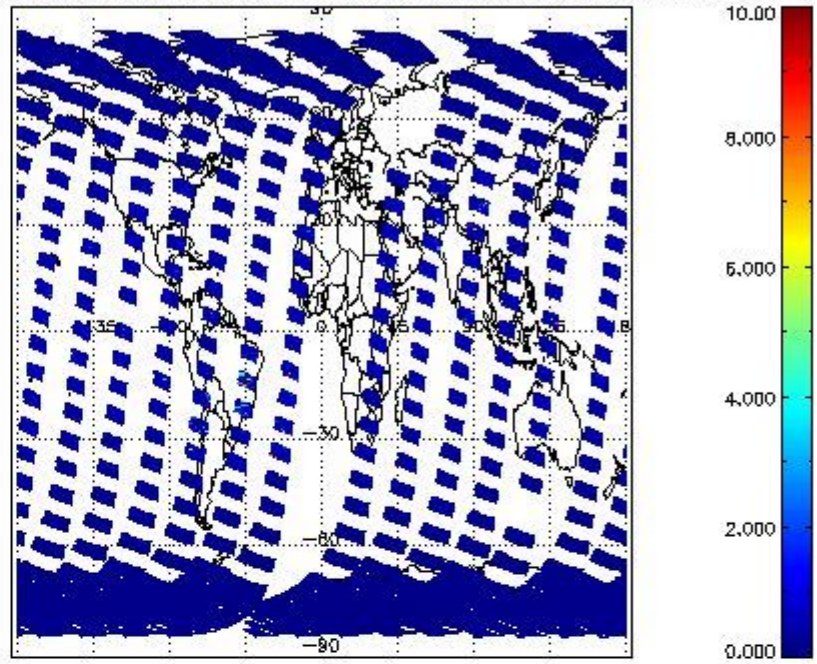
2.2.2.3 BrO (UV3)



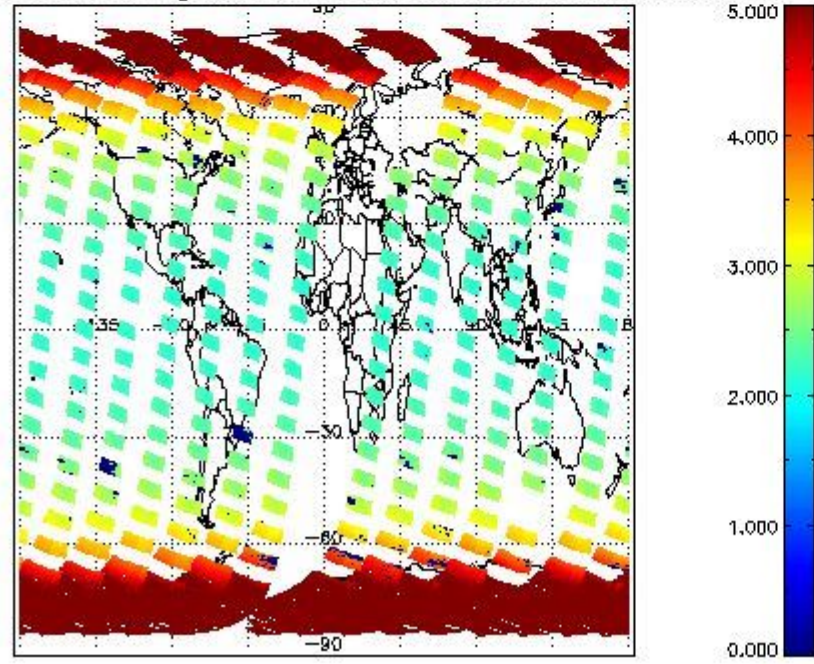
SCIOL2P_NADUV3BRO_vcd for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



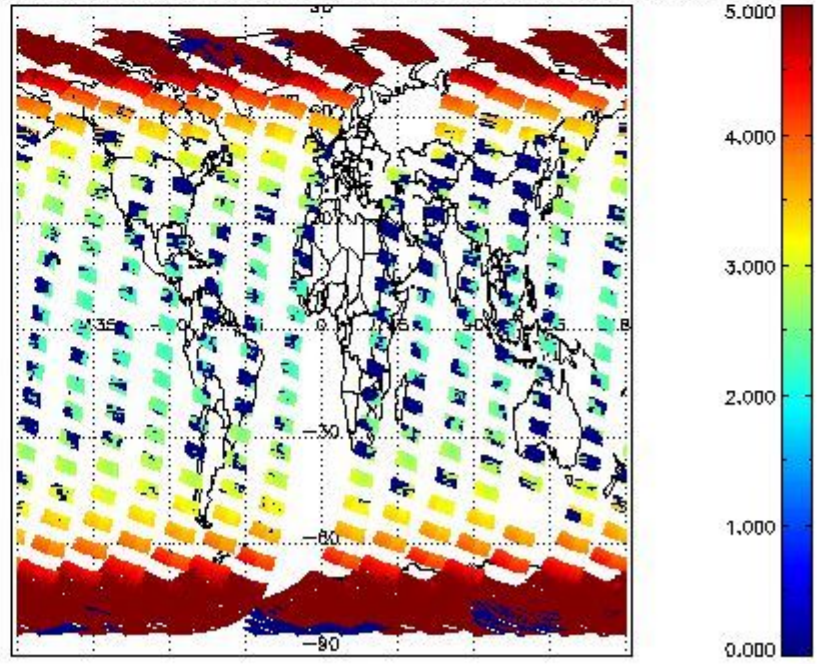
SCIOL2P_NADUV3BRO_vcd_err for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



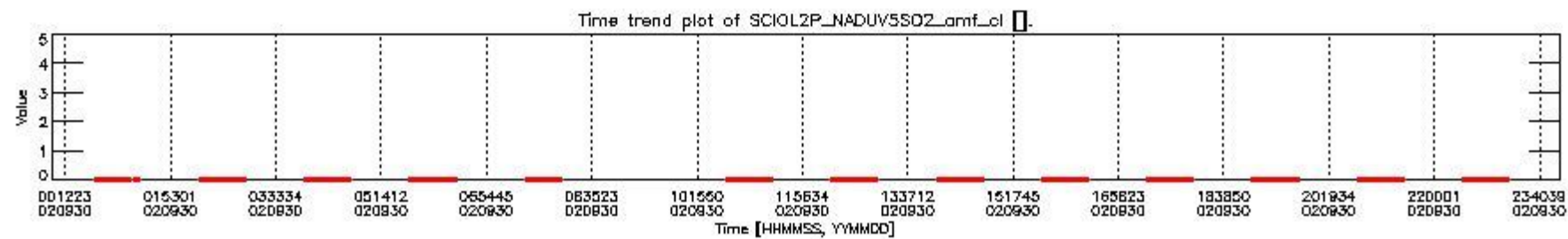
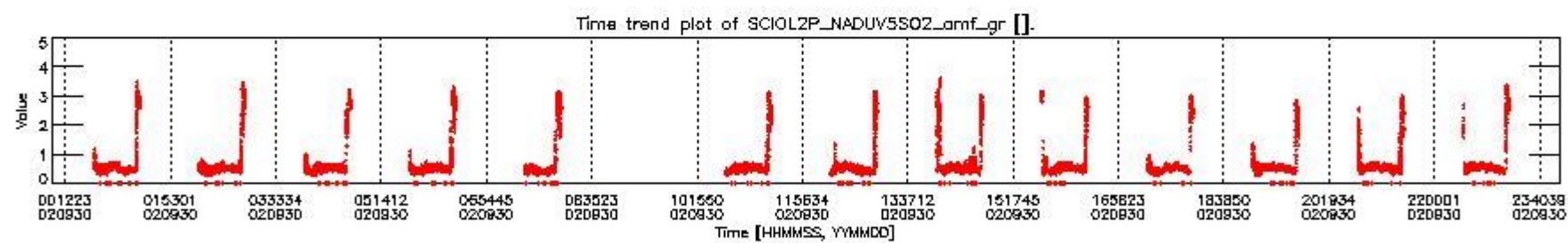
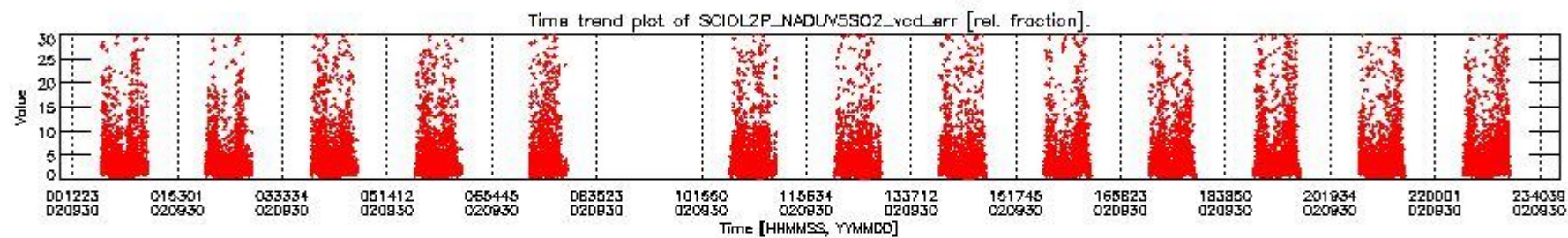
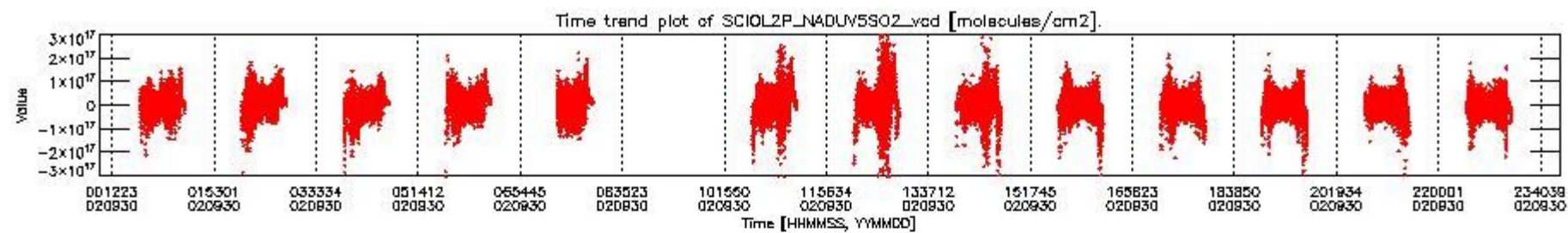
SCIOL2P_NADUV3BRO_amf_gr for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



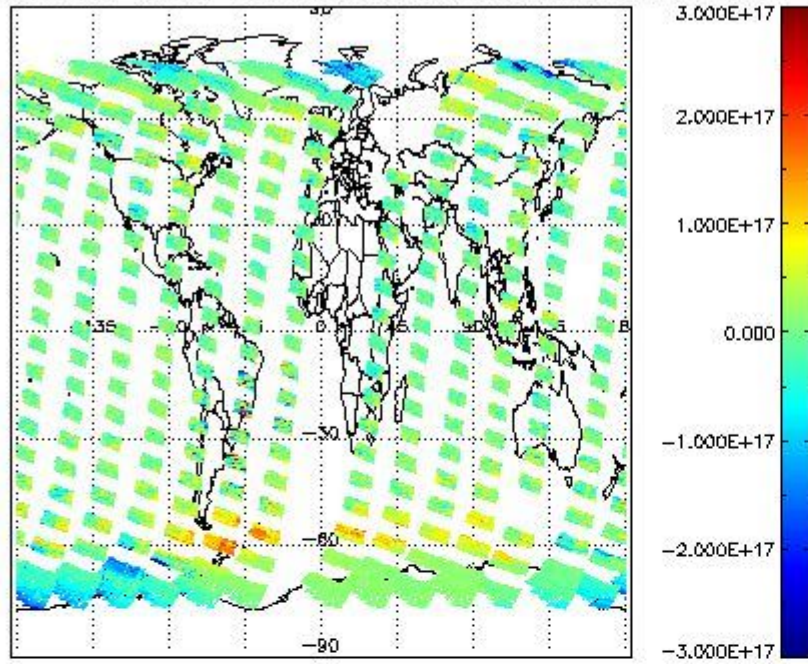
SCIOL2P_NADUV3BRO_amf_cl for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



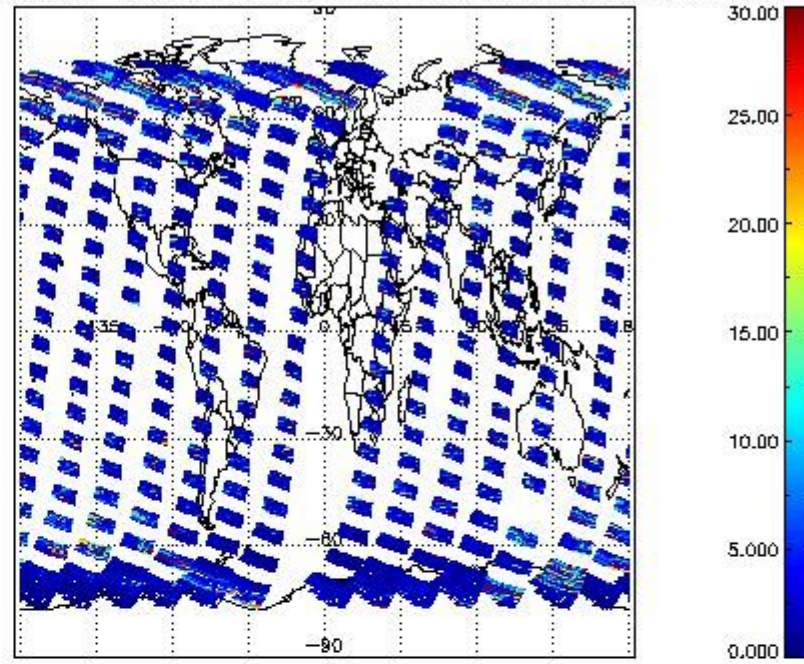
2.2.2.4 SO2 (UV5)



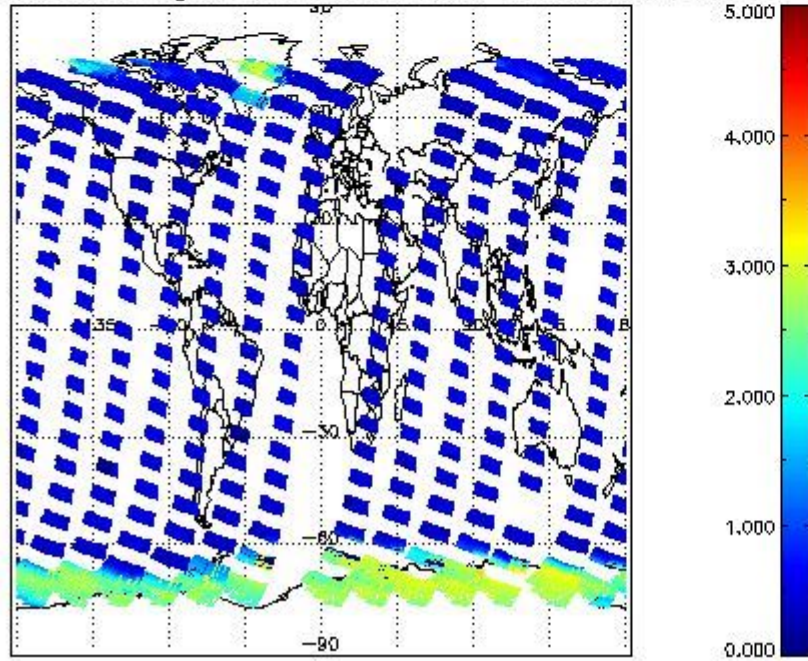
SCIOL2P_NADUV5S02_vcd for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



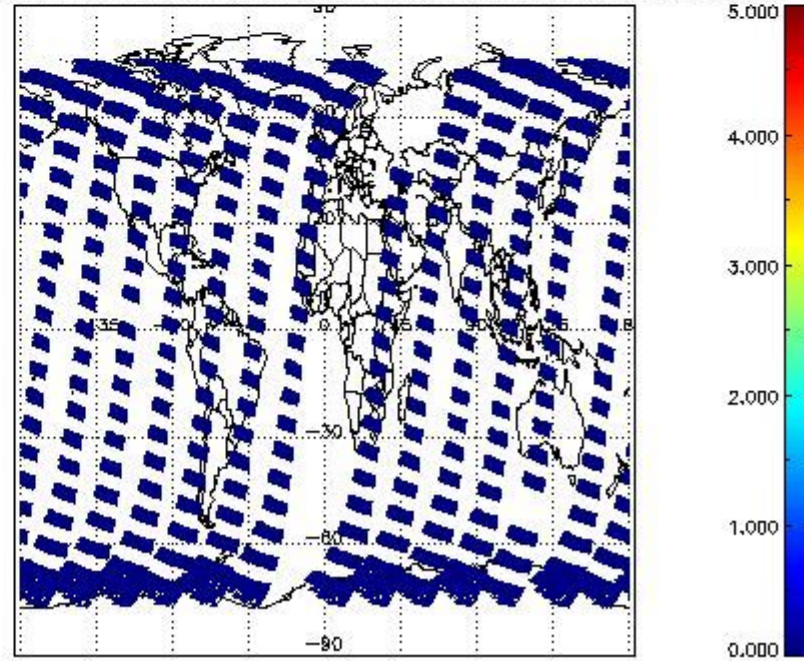
SCIOL2P_NADUV5S02_vcd_err for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



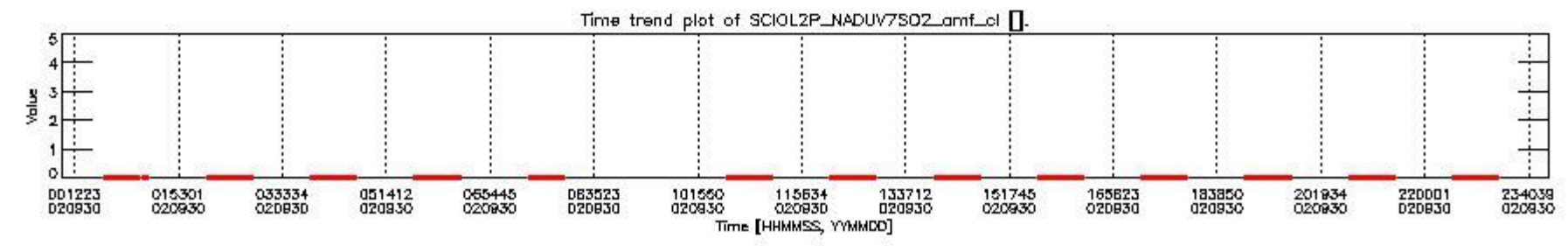
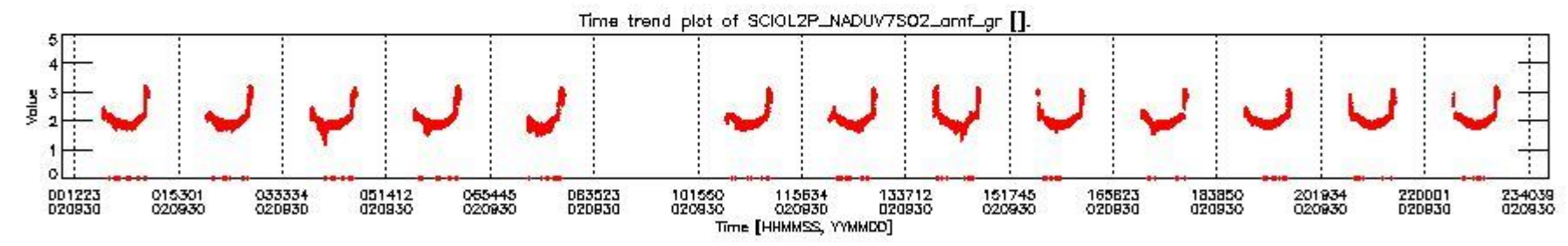
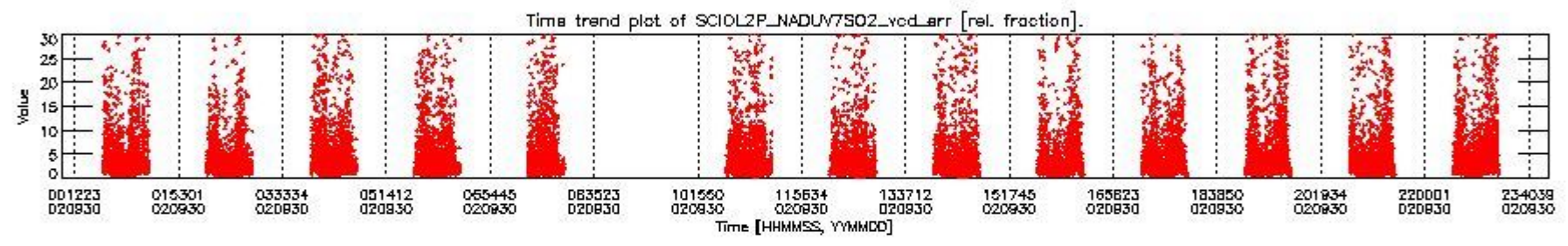
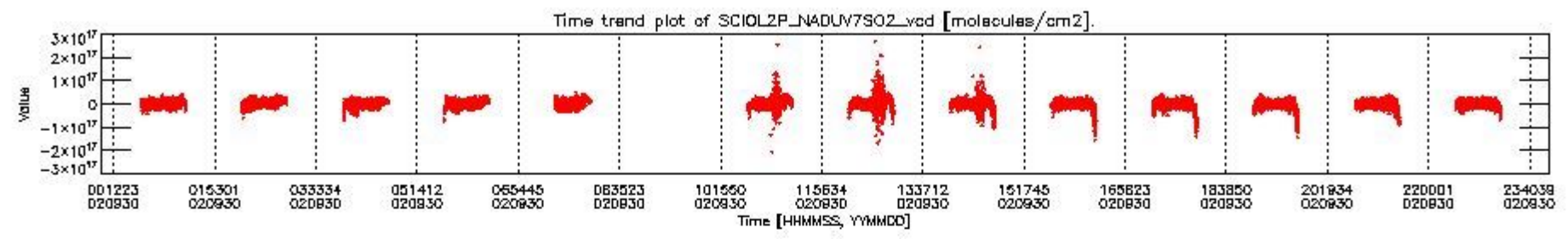
SCIOL2P_NADUV5S02_amf_gr for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



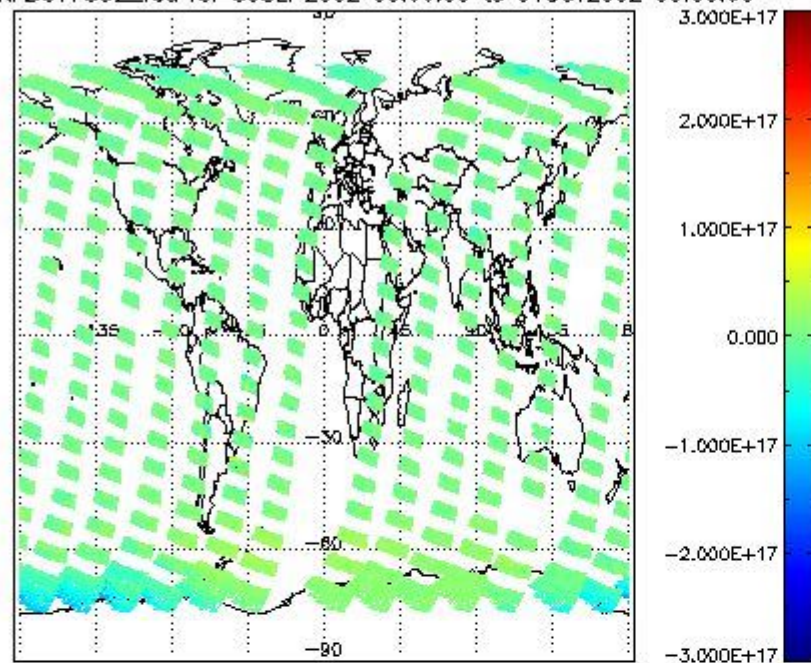
SCIOL2P_NADUV5S02_amf_cl for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



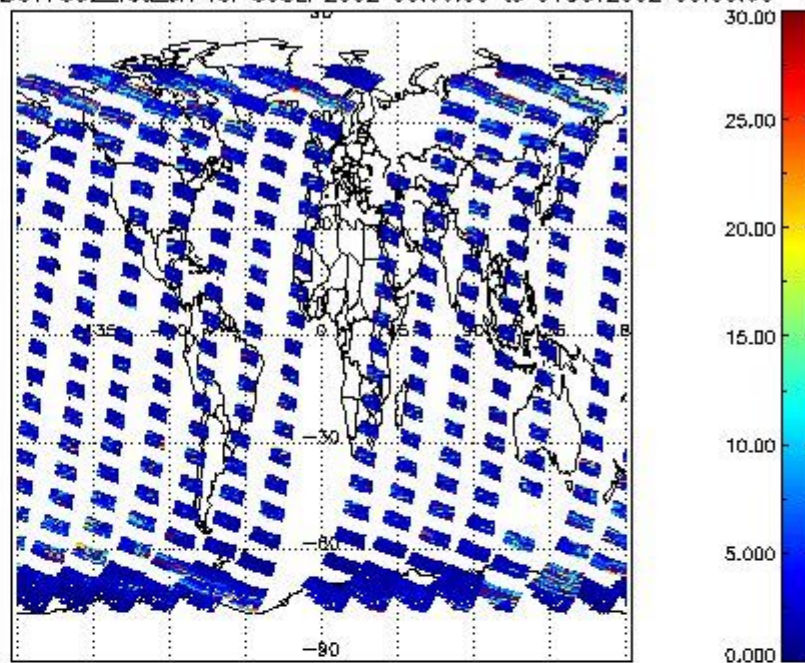
2.2.2.5 SO2 (UV7)



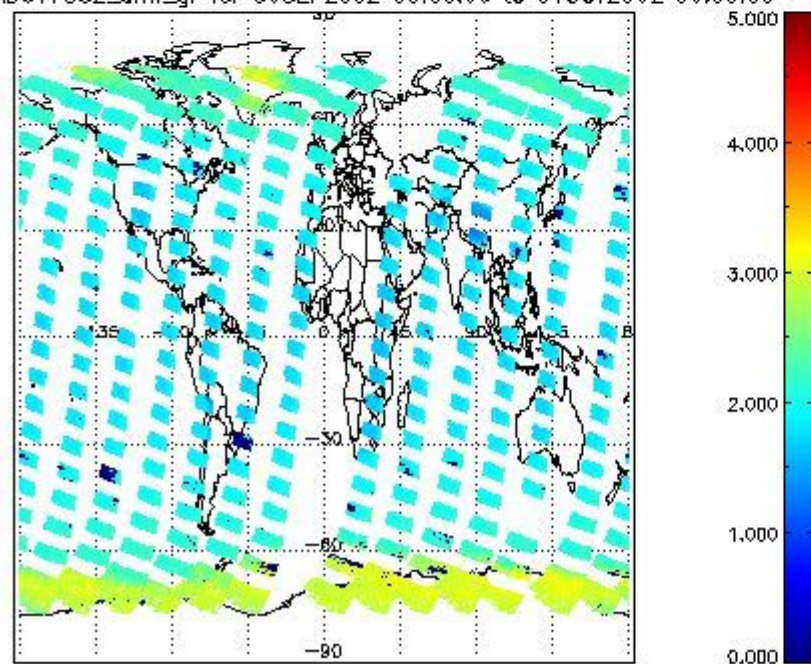
SCIOL2P_NADUV7S02_vcd for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



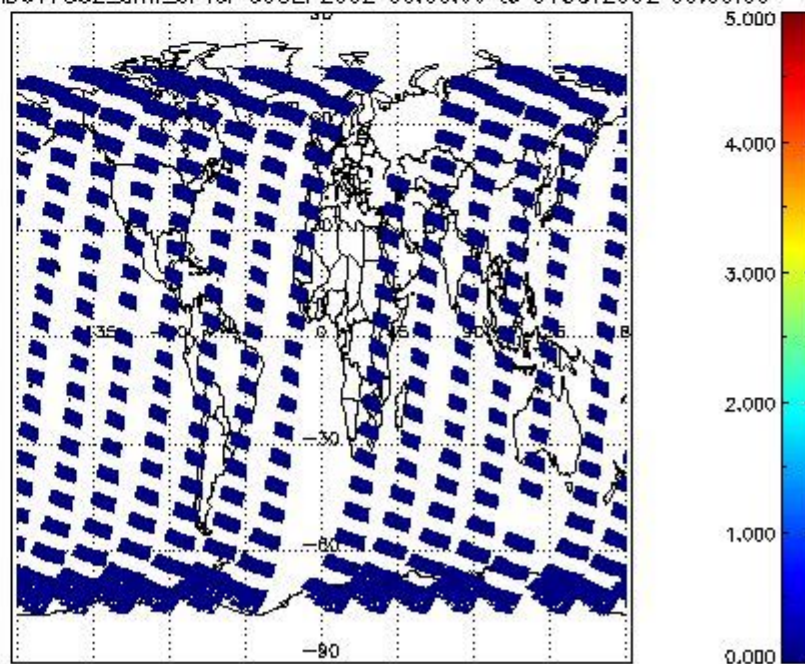
SCIOL2P_NADUV7S02_vcd_err for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



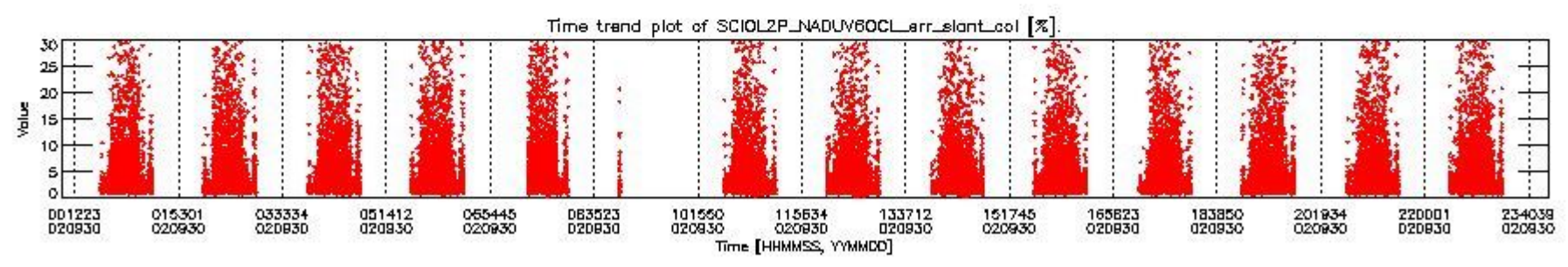
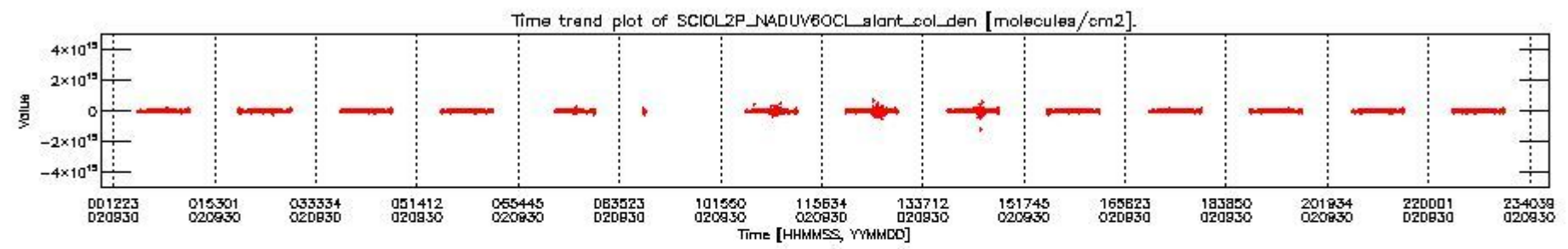
SCIOL2P_NADUV7S02_amf_gr for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



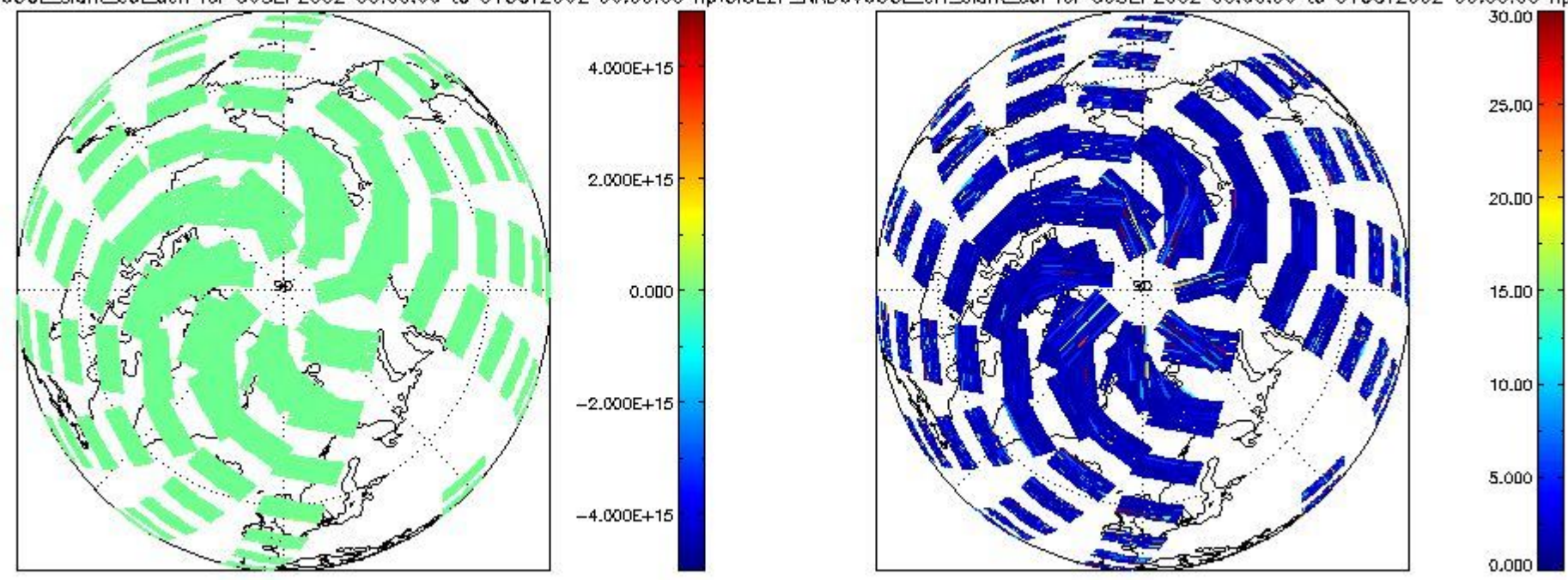
SCIOL2P_NADUV7S02_amf_cl for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



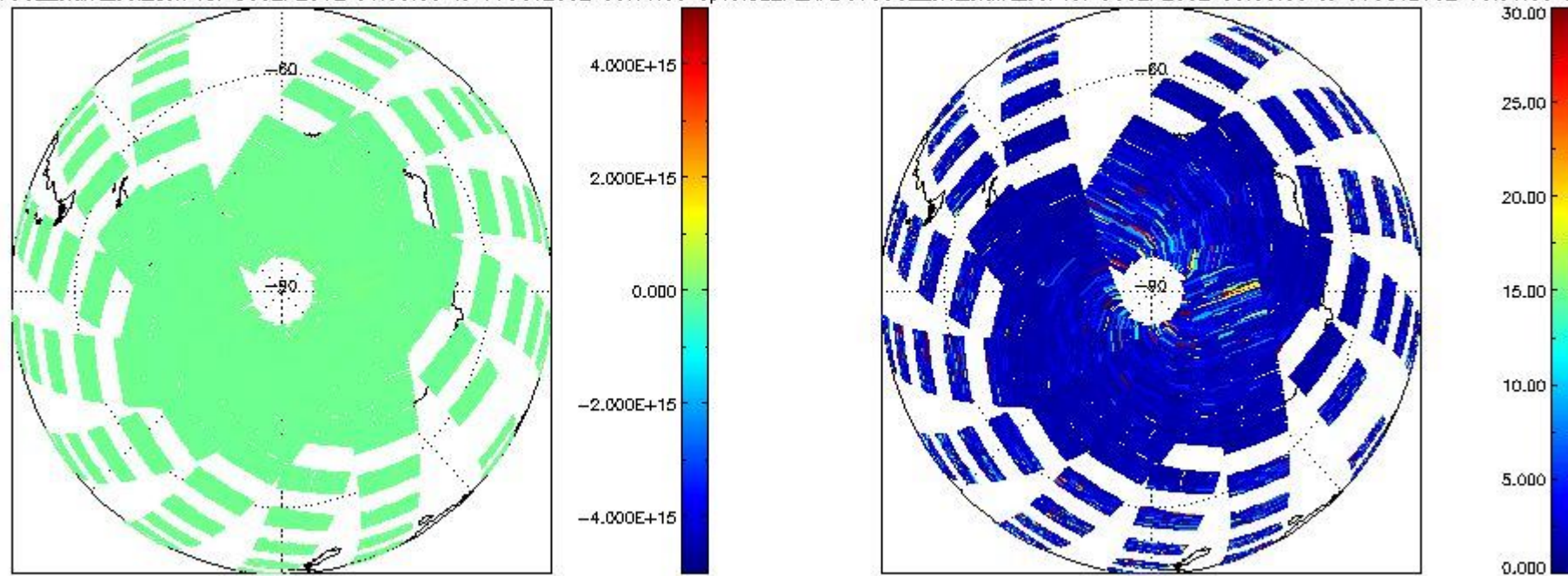
2.2.2.6 OCIO (UV6)



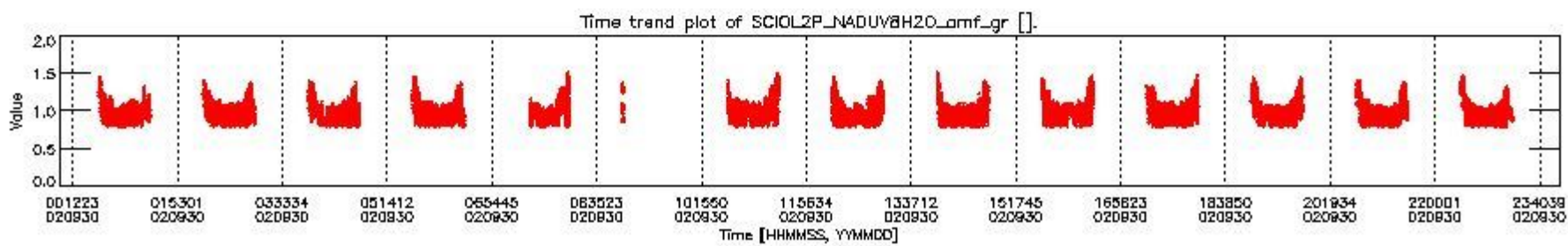
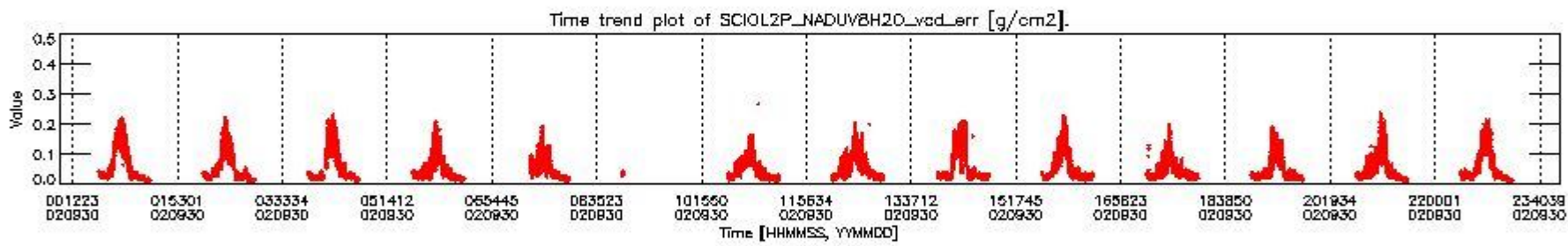
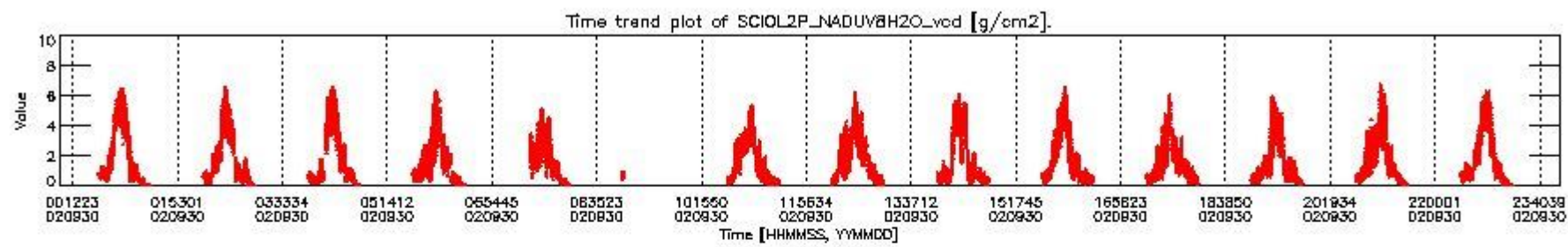
CIOL2P_NADUV60CLslant_colDen for 30SEP2002 00:00:00 to 01OCT2002 00:00:00 np; CIOL2P_NADUV60CLerr_slant_col for 30SEP2002 00:00:00 to 01OCT2002 00:00:00 np



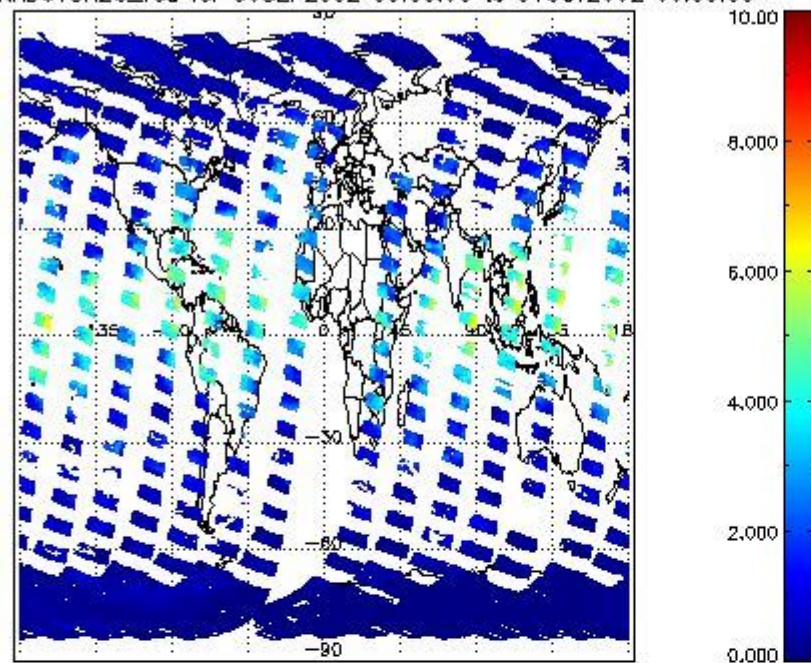
CIOL2P_NADUV6OCL_slant_col_den for 30SEP2002 00:00:00 to 01OCT2002 00:00:00 sp; CIOL2P_NADUV6OCL_err_slant_col for 30SEP2002 00:00:00 to 01OCT2002 00:00:00 sp



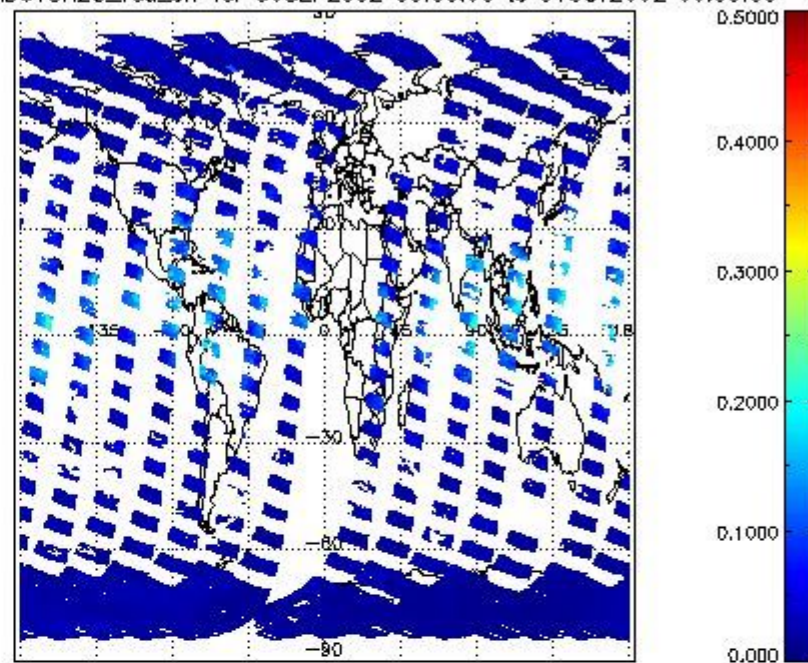
2.2.2.7 H2O (UV8)



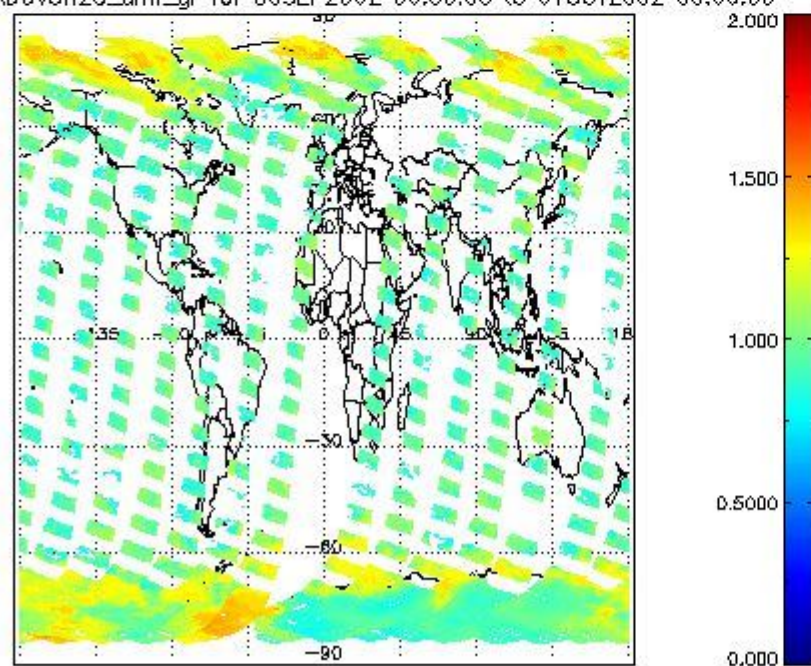
SCIOL2P_NADUV8H2O_vcd for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

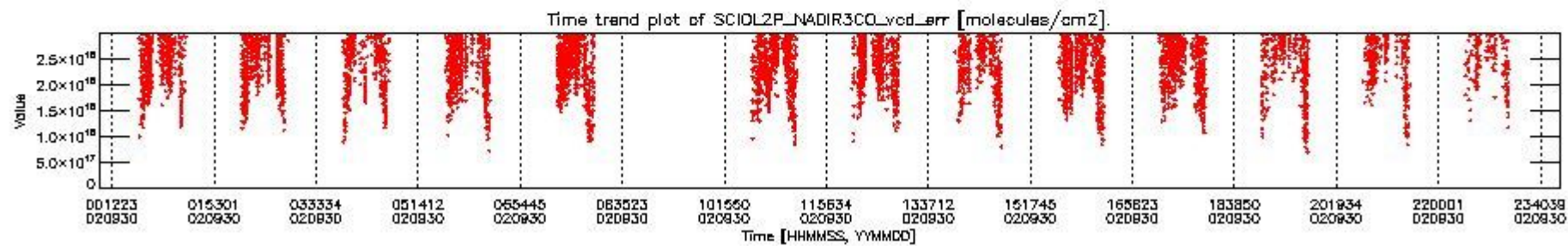
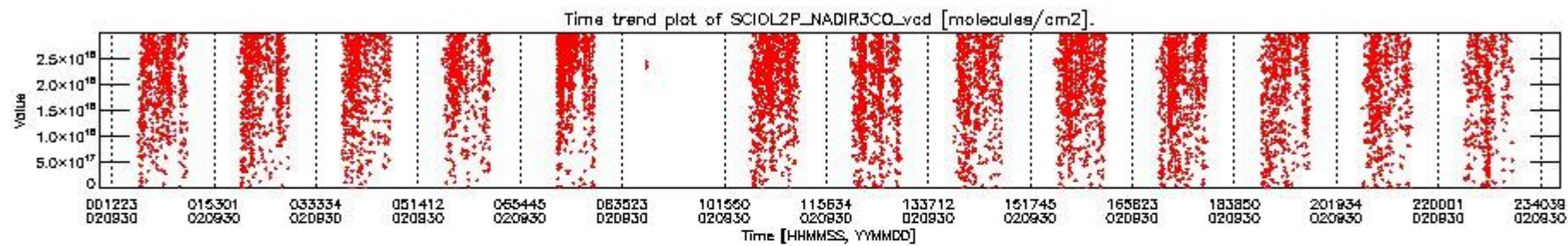


SCIOL2P_NADUV8H2O_vcd_err for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

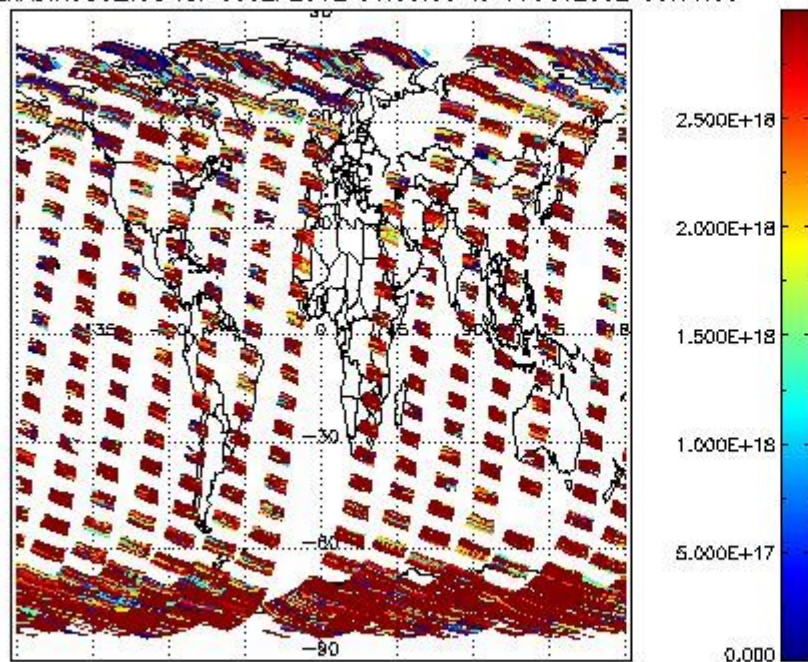


SCIOL2P_NADUV8H2O_amf_gr for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

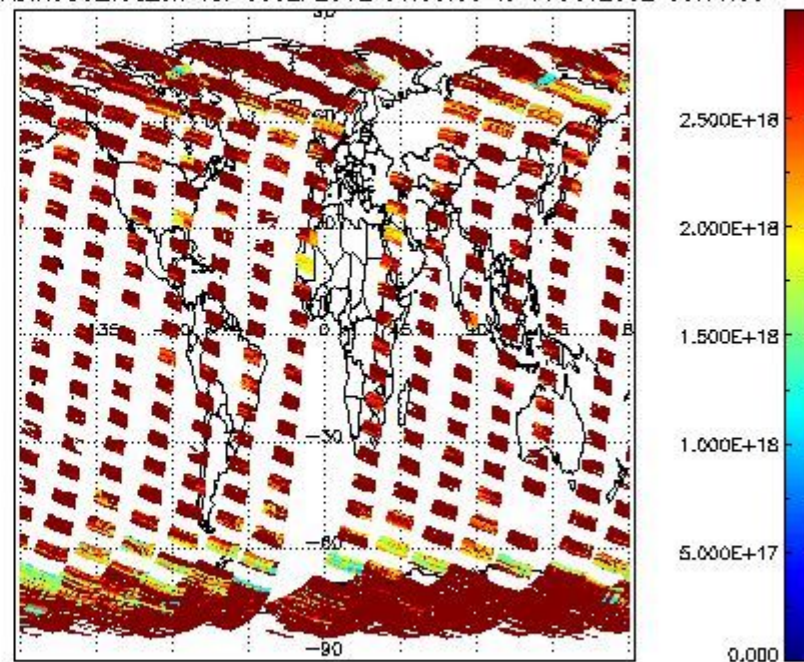




SCIDL2P_NADIR3CO_vcd for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



SCIDL2P_NADIR3CO_vcd_err for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



2.2.3 Limb

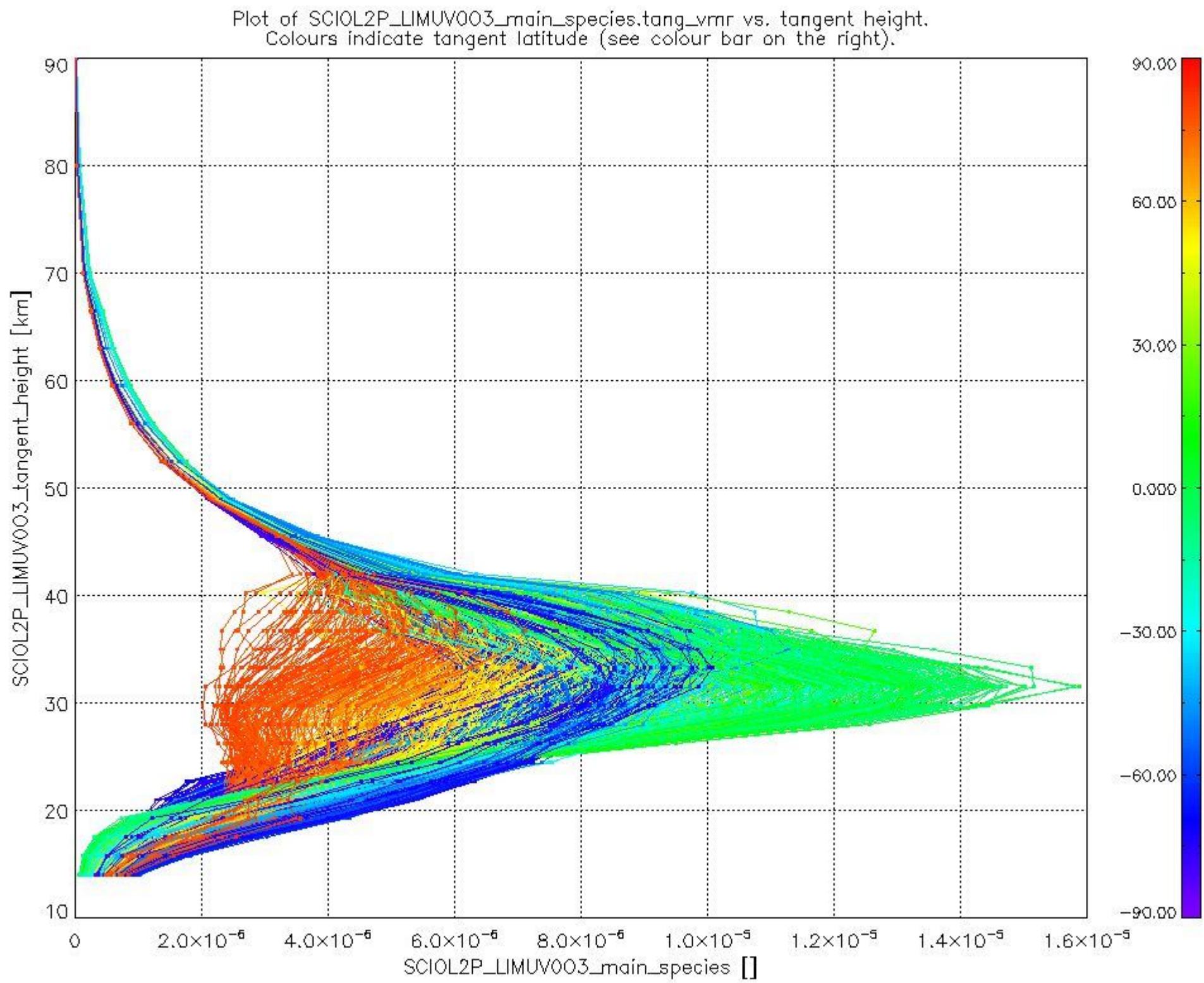
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

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

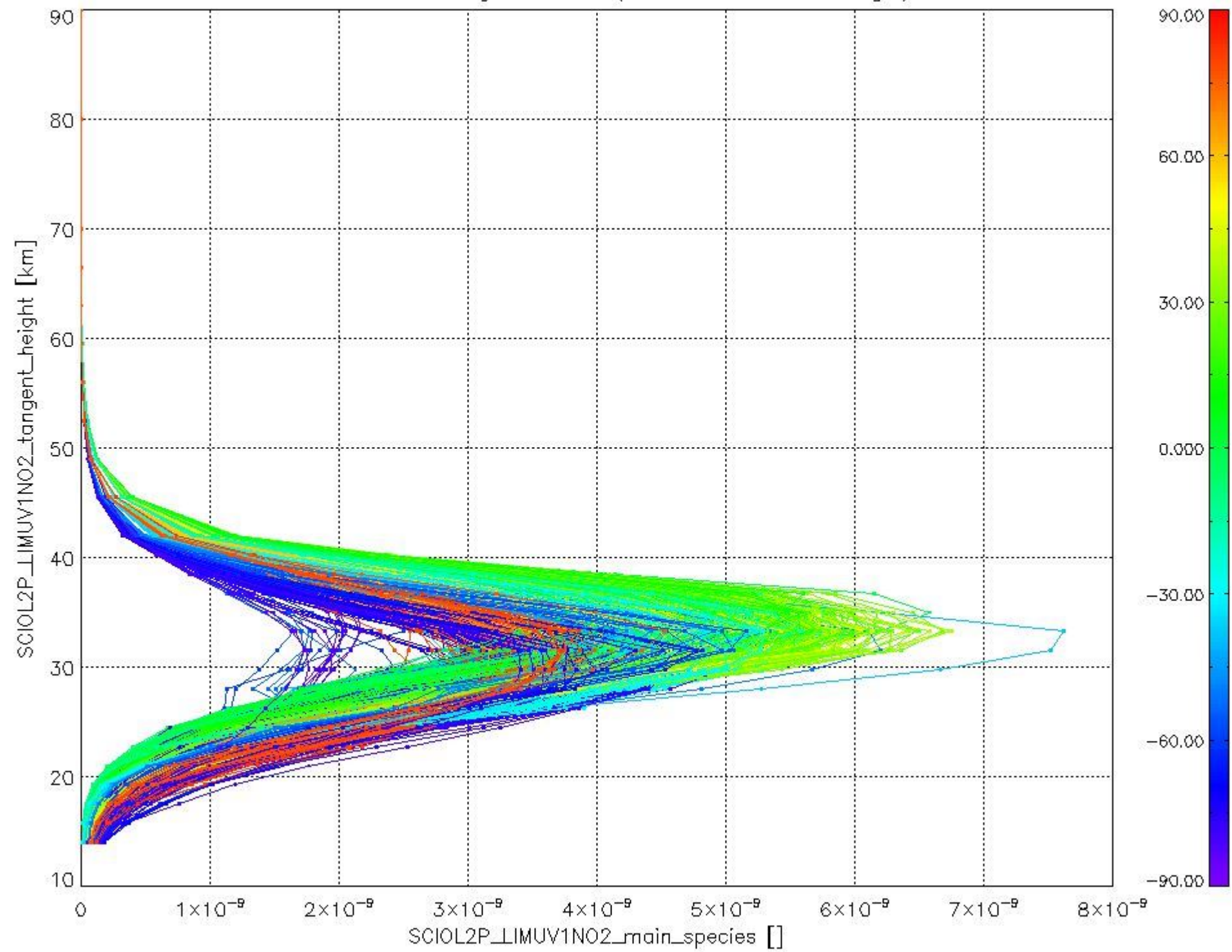
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



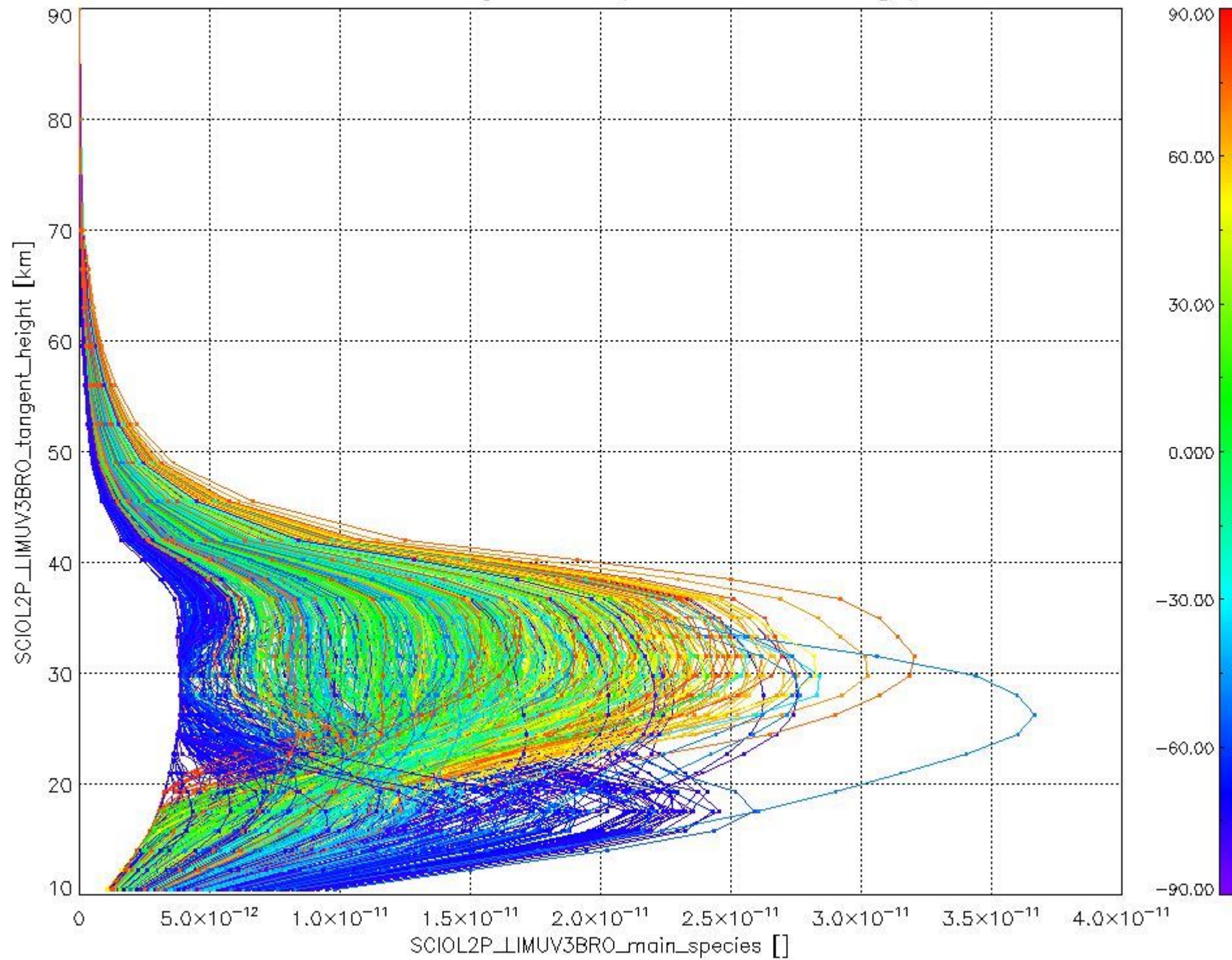
2.2.3.2 NO2 (UV1)

Plot of SCIO2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



2.2.3.3 BrO (UV3)

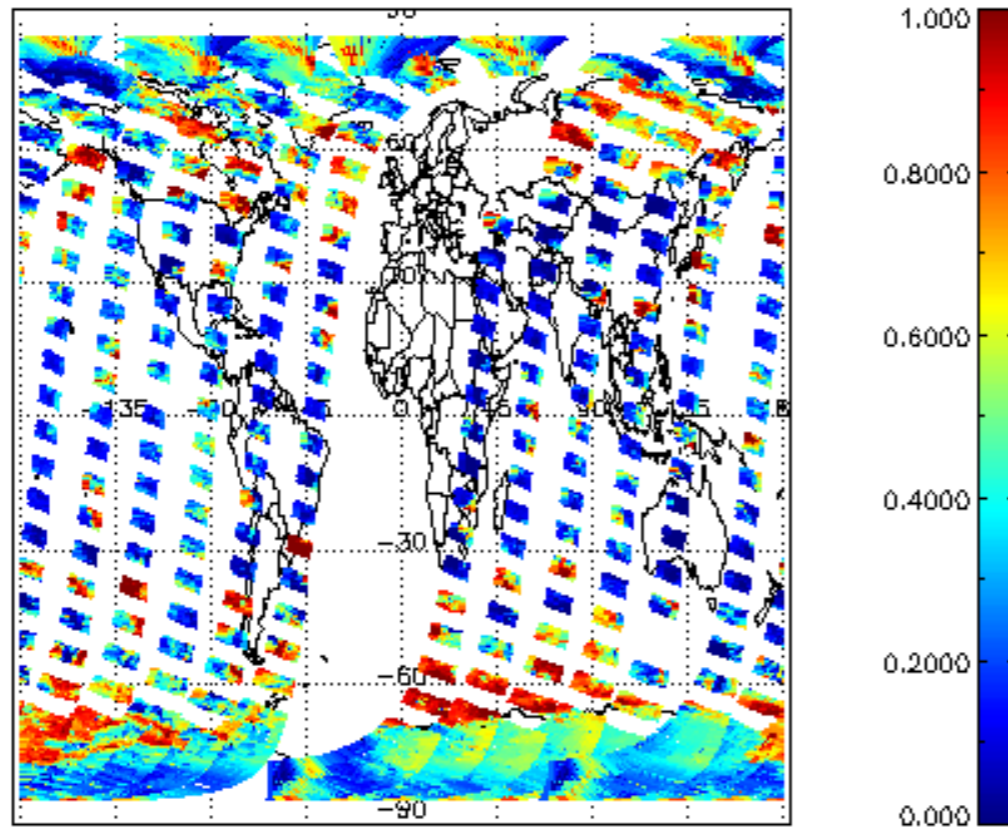
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



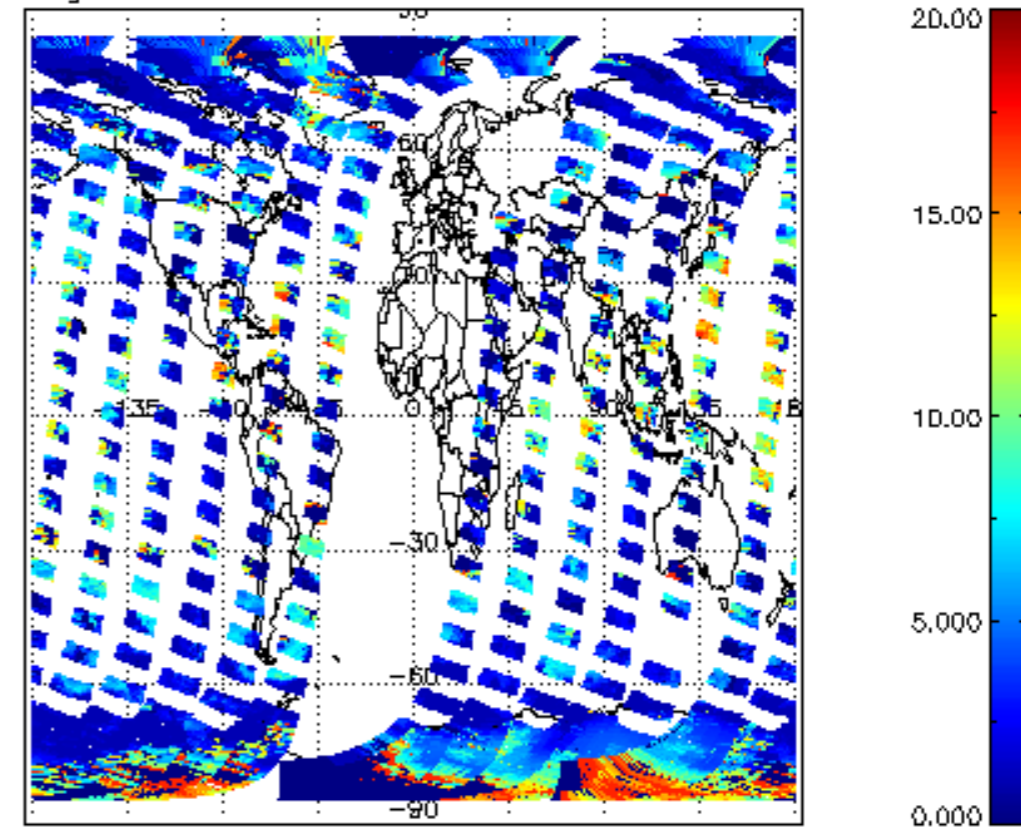
2.3 ADF monitoring

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_135713_20020929_153842_20021001_153842
3	SCI_MF1_AXNIEC20100218_135815_20020930_150705_20021002_150705

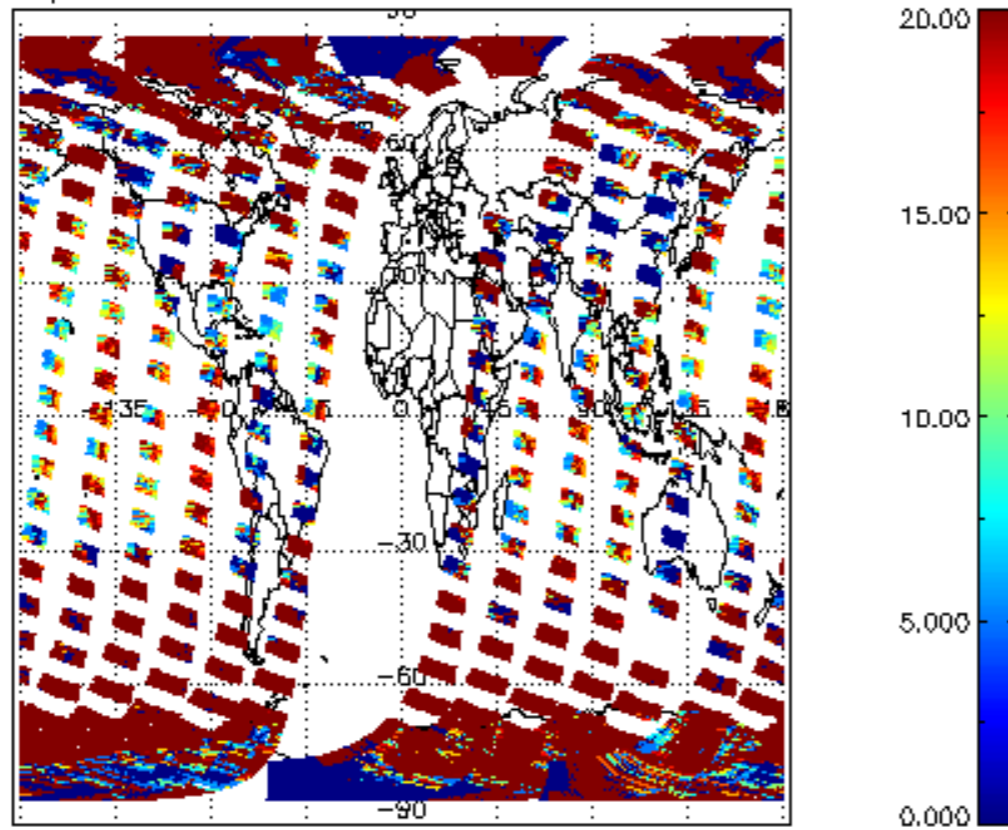
cLfrac for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



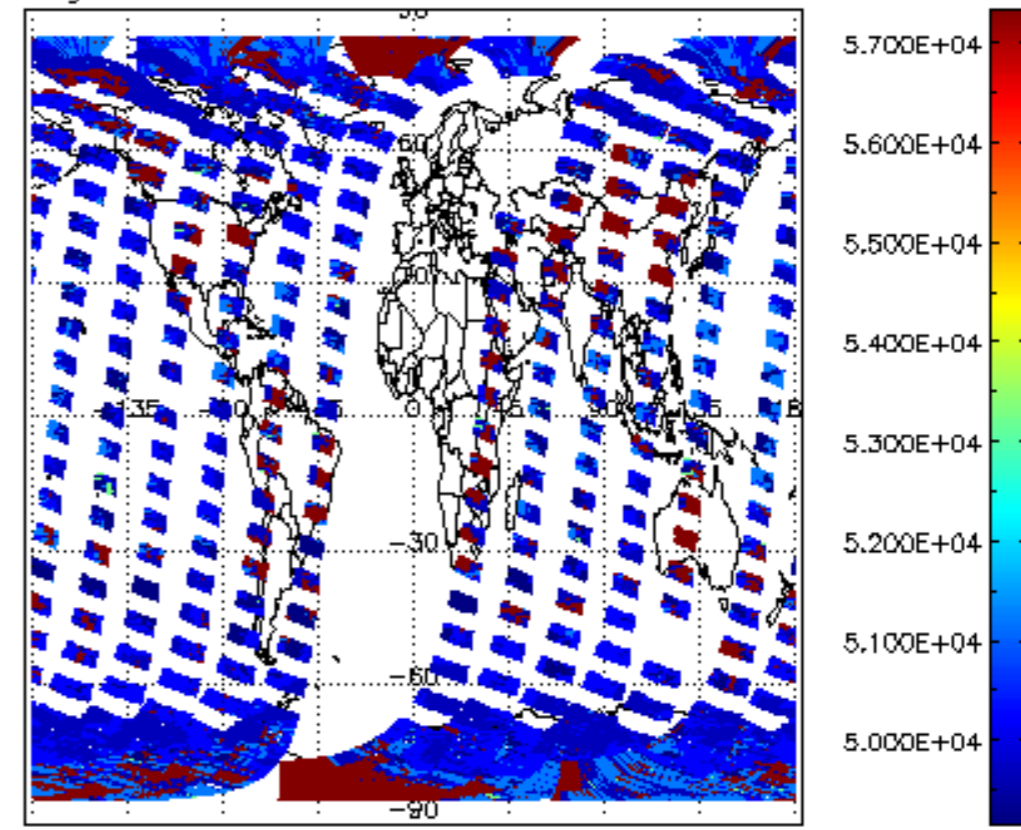
cl_top_height for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

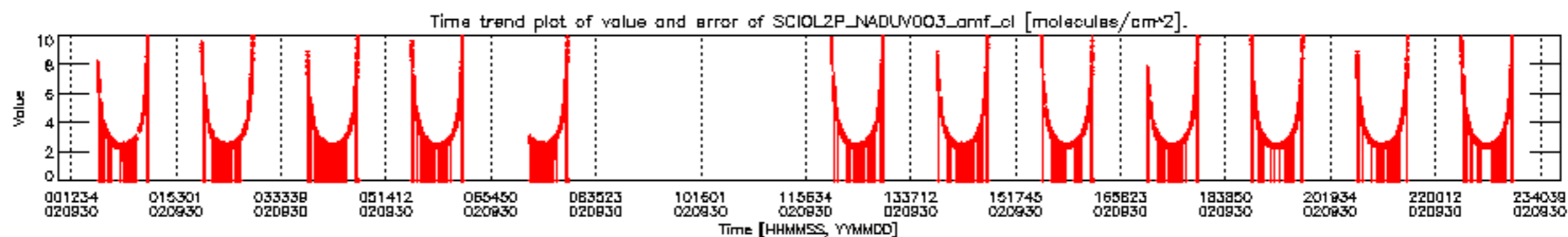
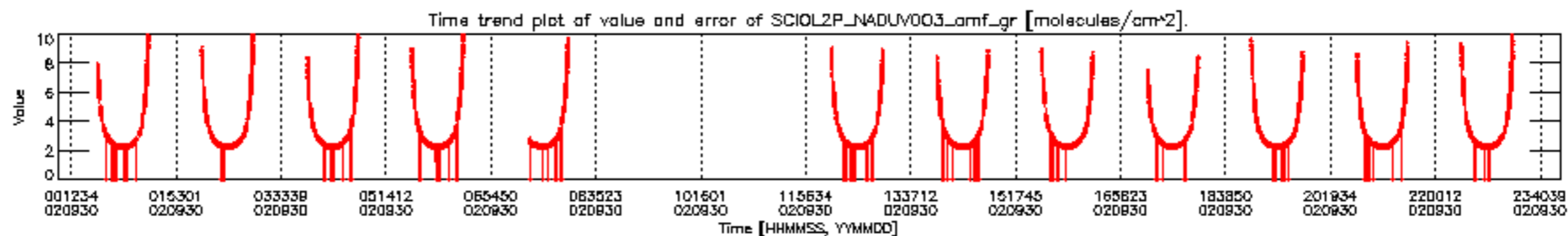
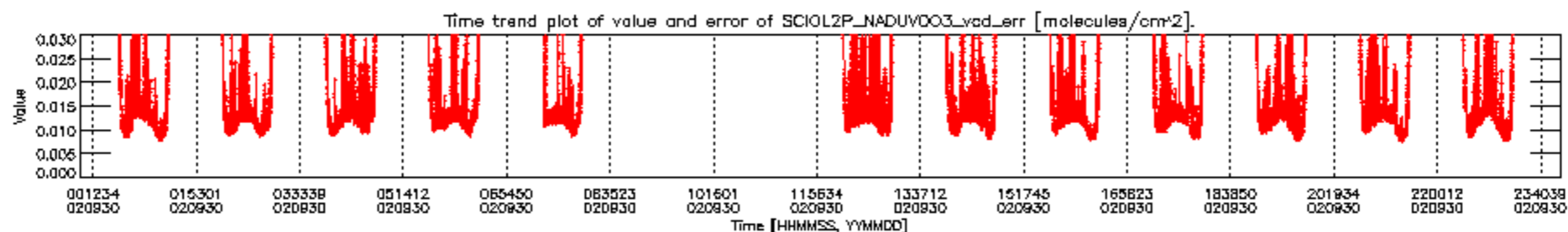
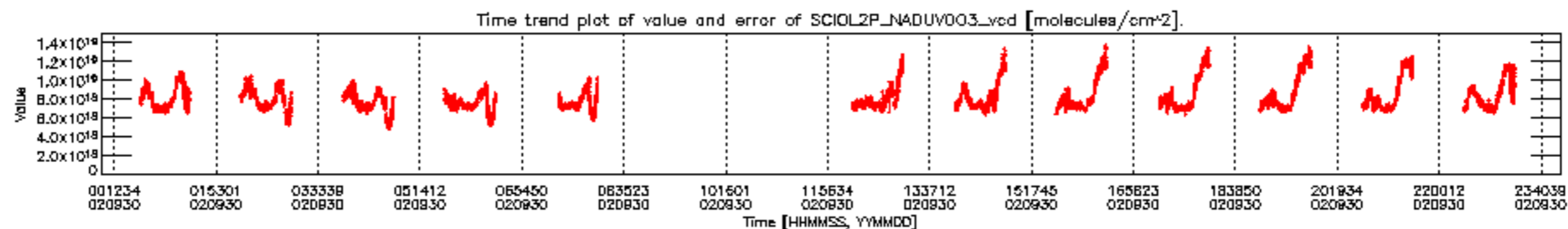


cl_opt_depth for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

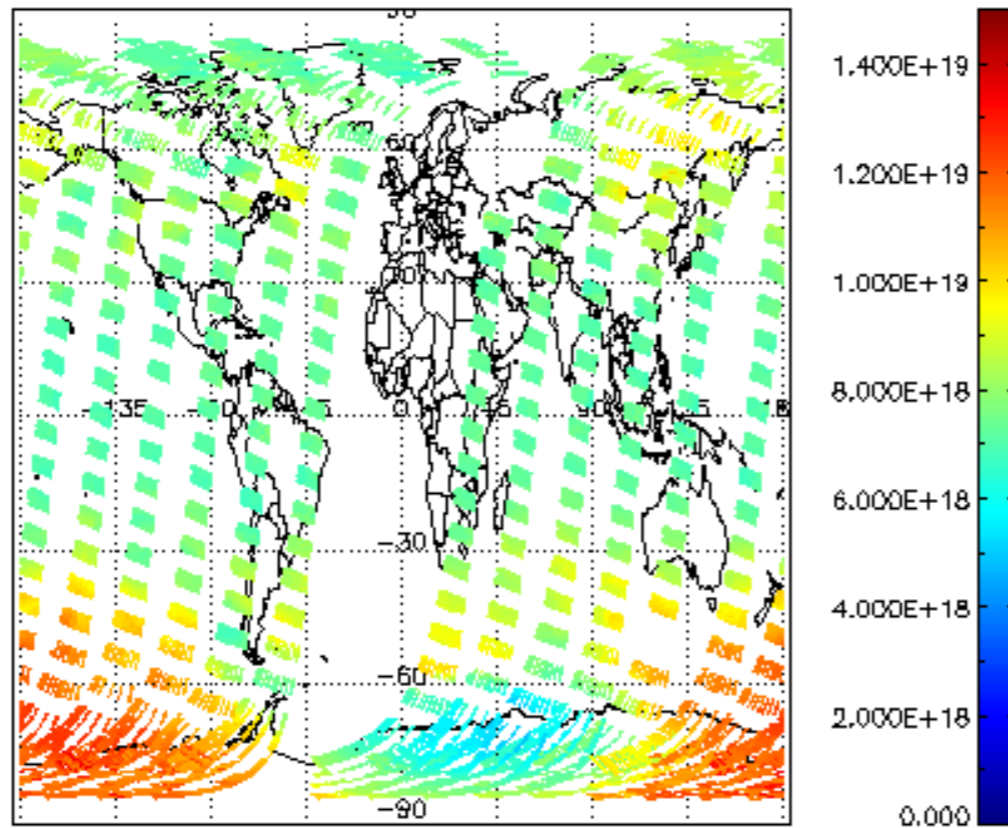


cloud_flags for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

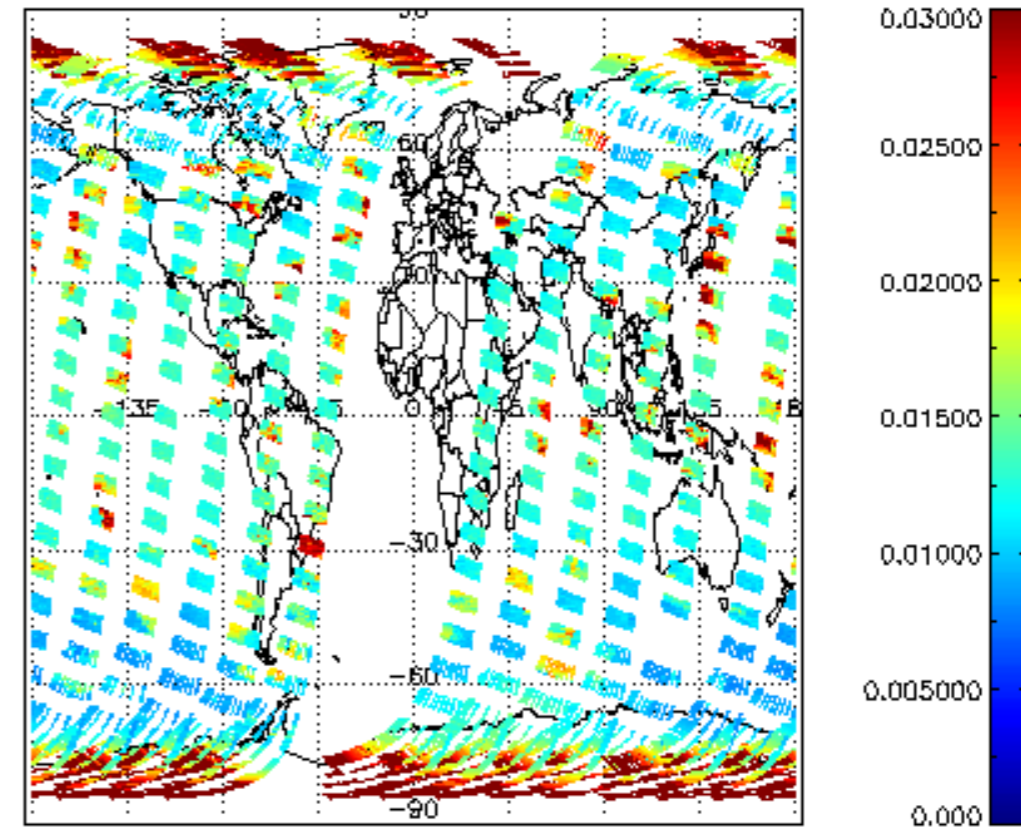




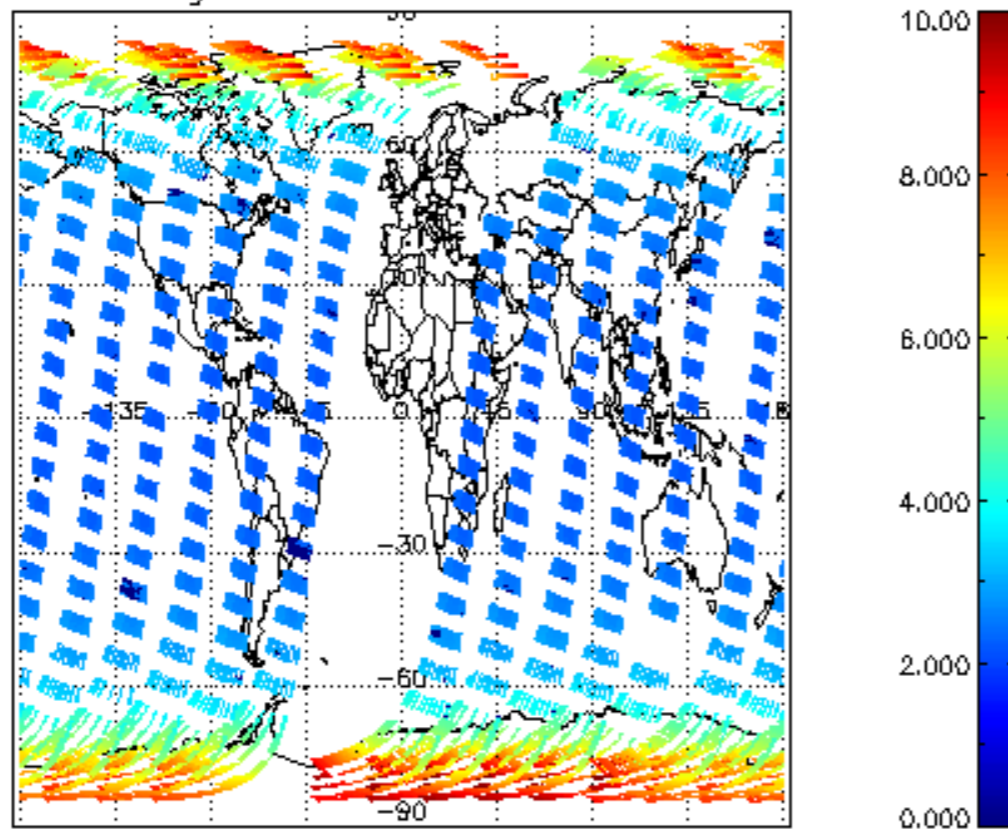
SCIOL2P_NADUV003_vcd for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



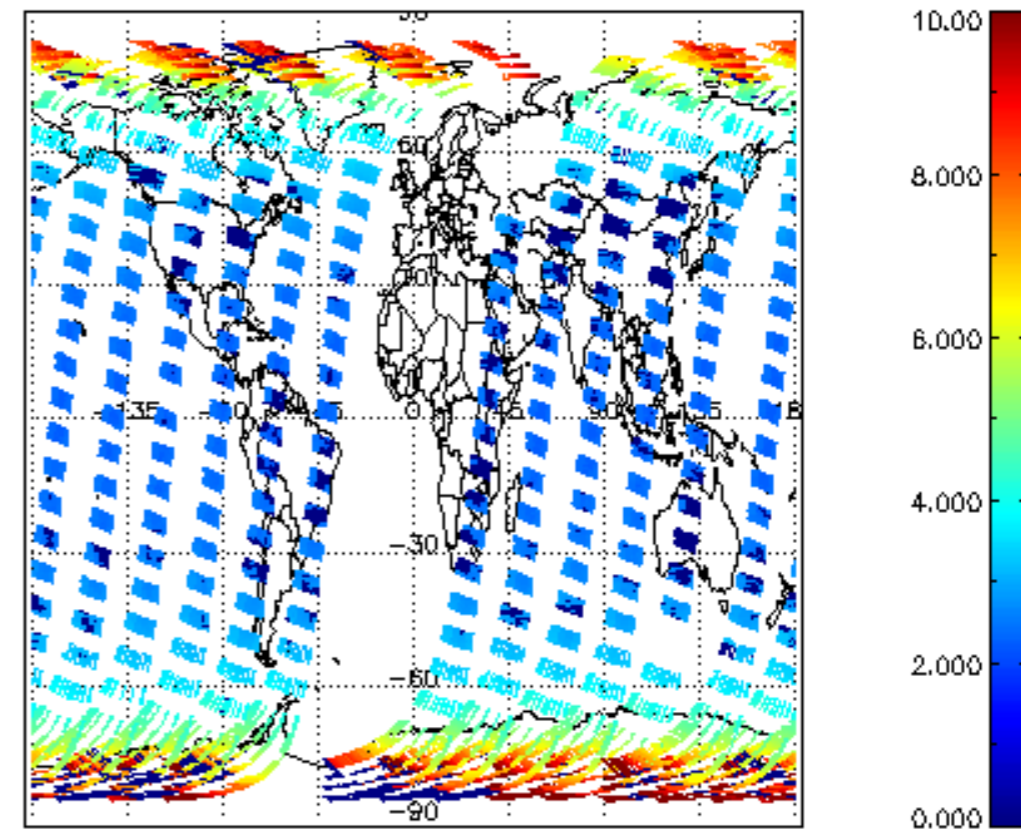
SCIOL2P_NADUV003_vcd_err for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

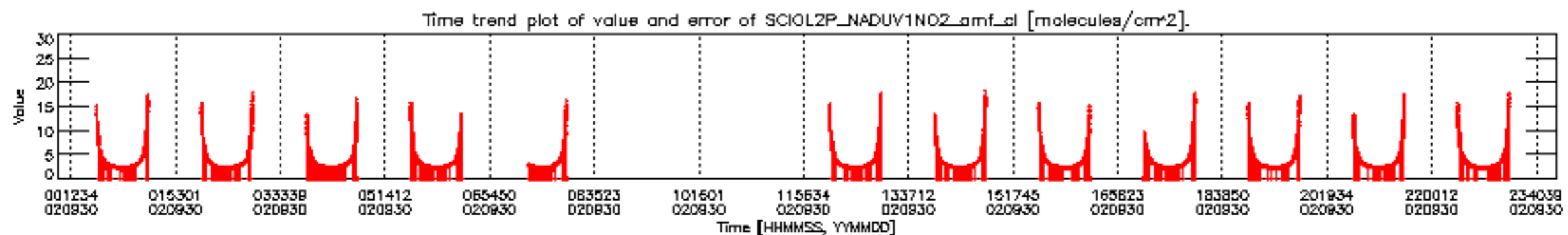
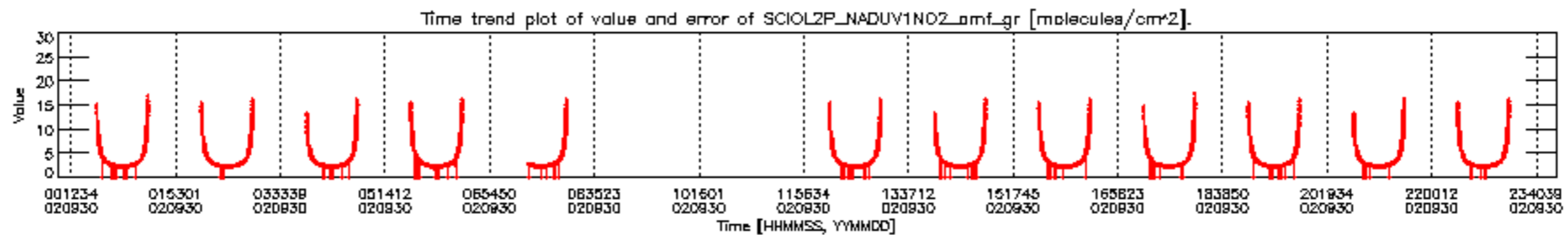
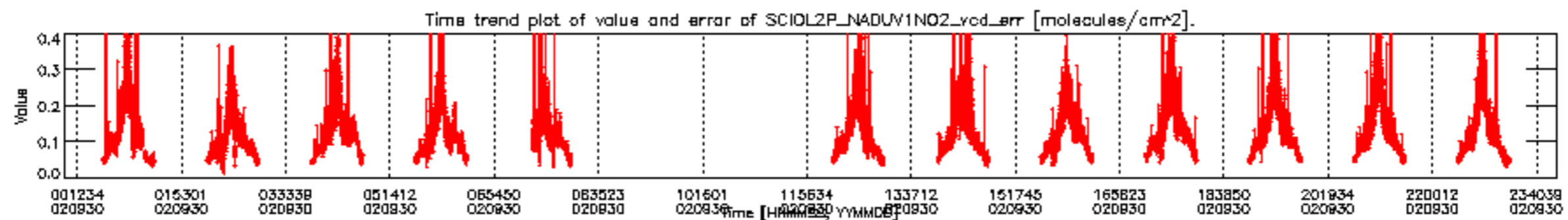
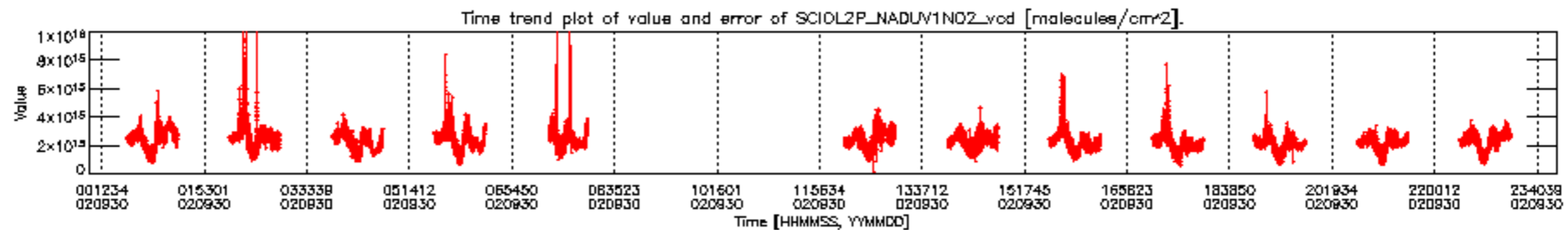


SCIOL2P_NADUV003_amf_gr for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

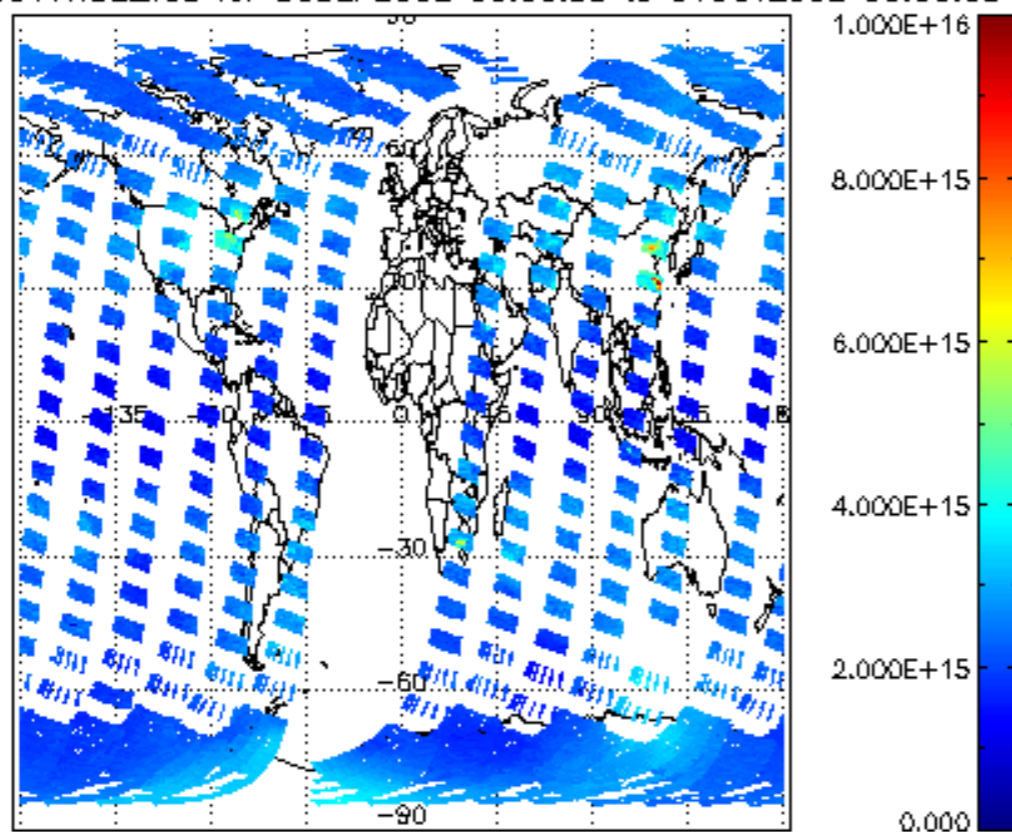


SCIOL2P_NADUV003_amf_el for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

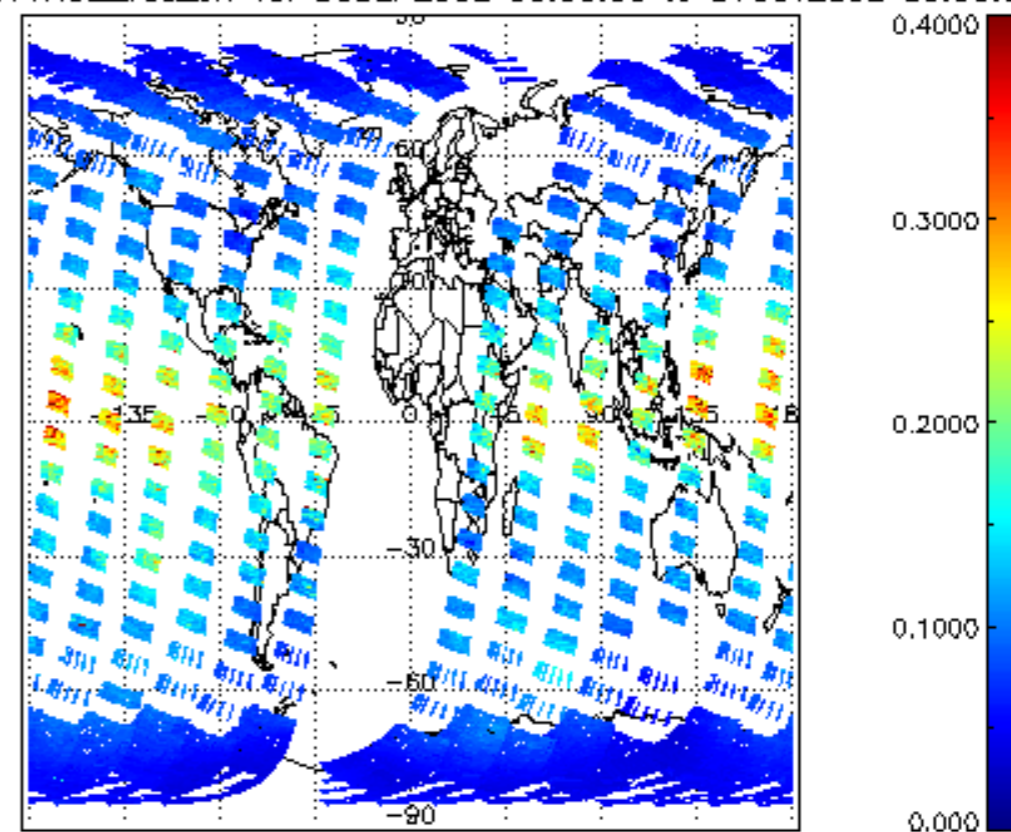




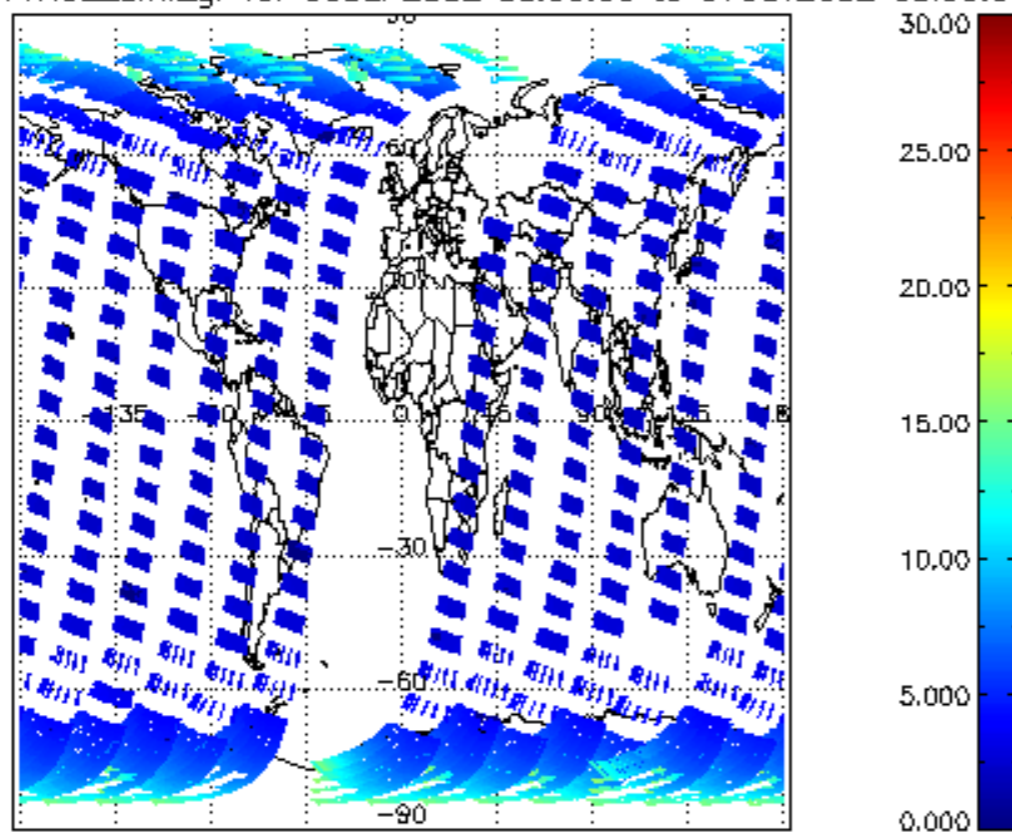
SCIOL2P_NADUV1NO2_vcd for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



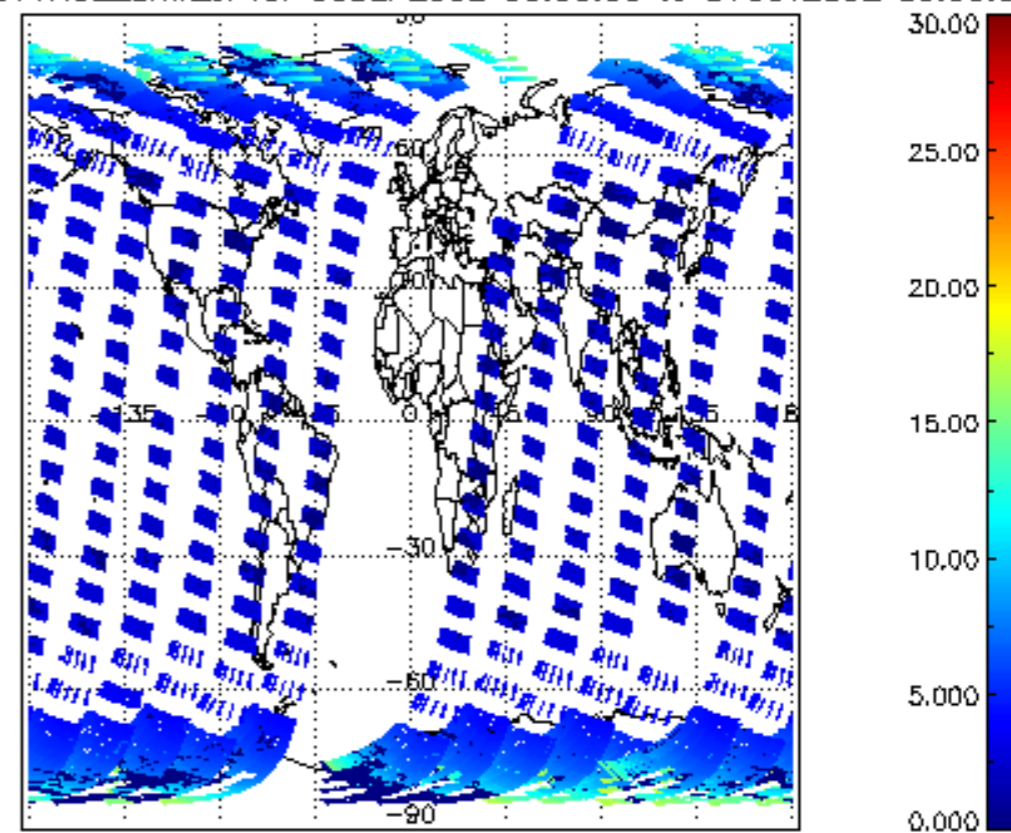
ICIOL2P_NADUV1NO2_vcd_err for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



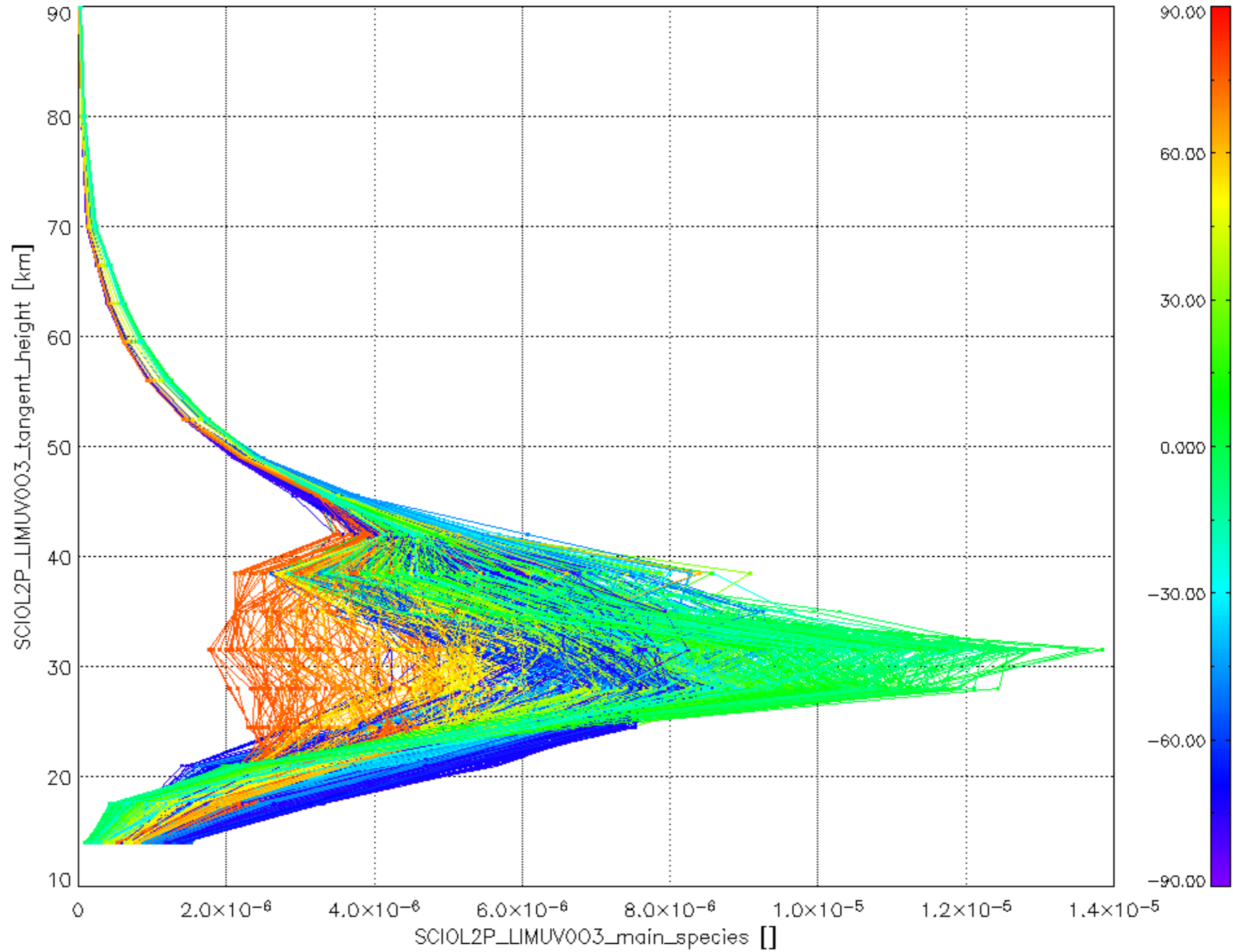
ICIOL2P_NADUV1NO2_amf_gr for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



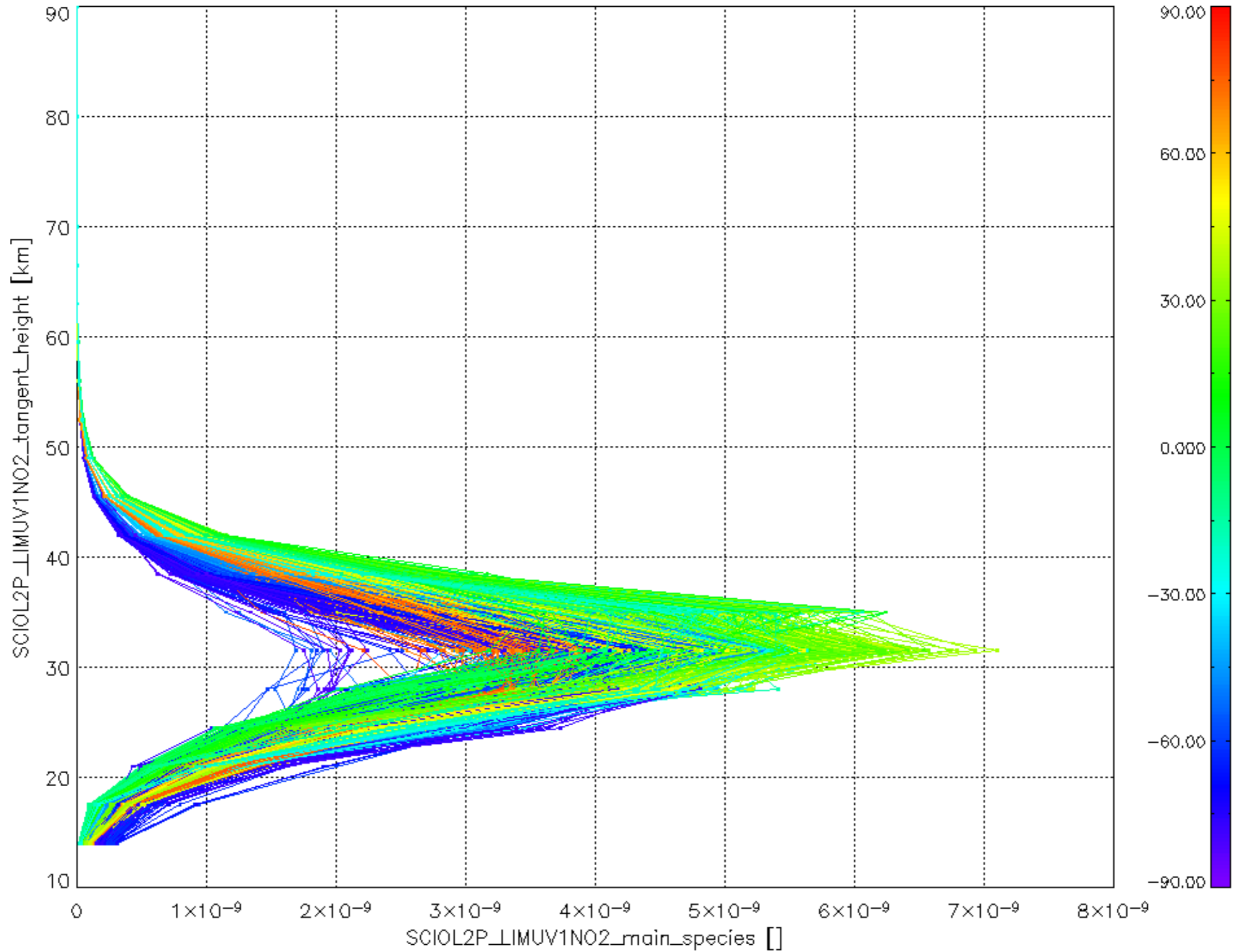
ICIOL2P_NADUV1NO2_amf_sl for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



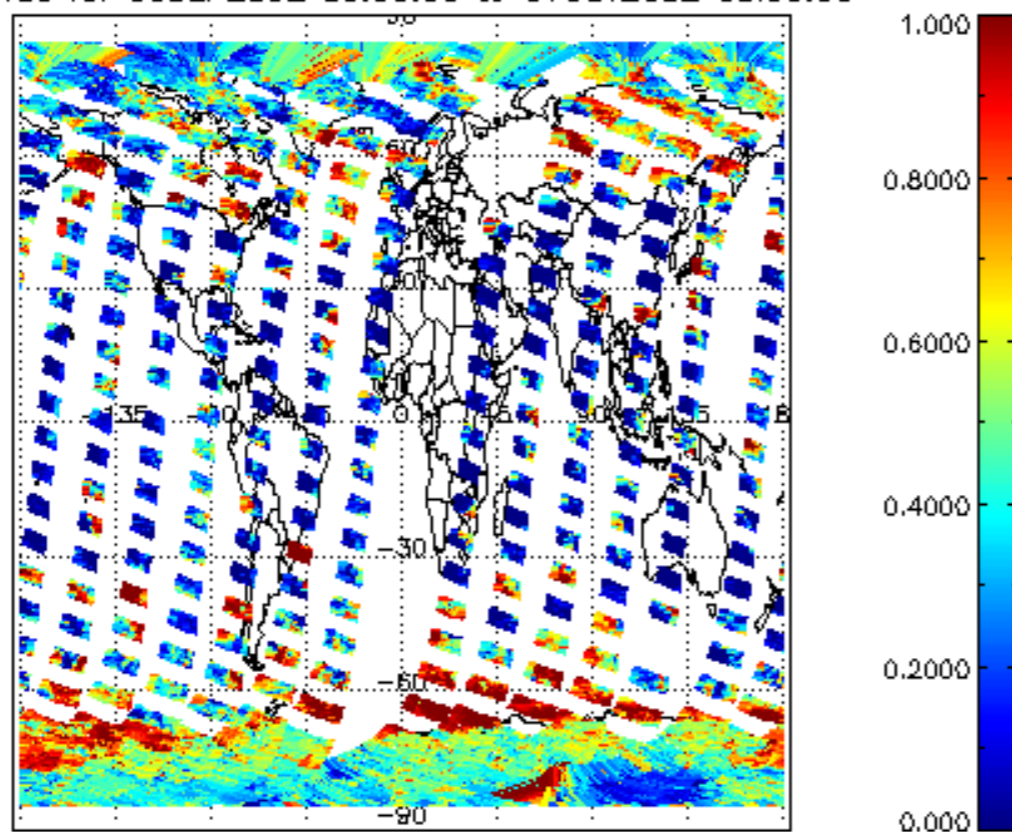
Plot of SCIOL2P_LIMUV003_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



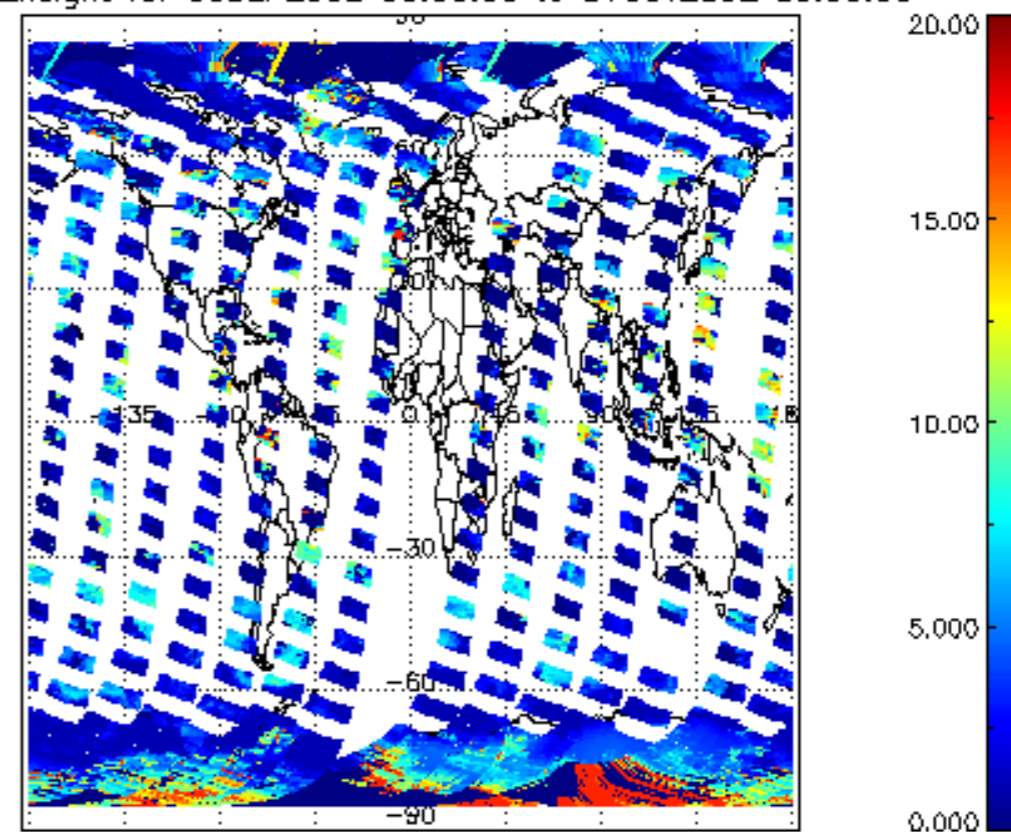
Plot of SCIOL2P_LIMUV1N02_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



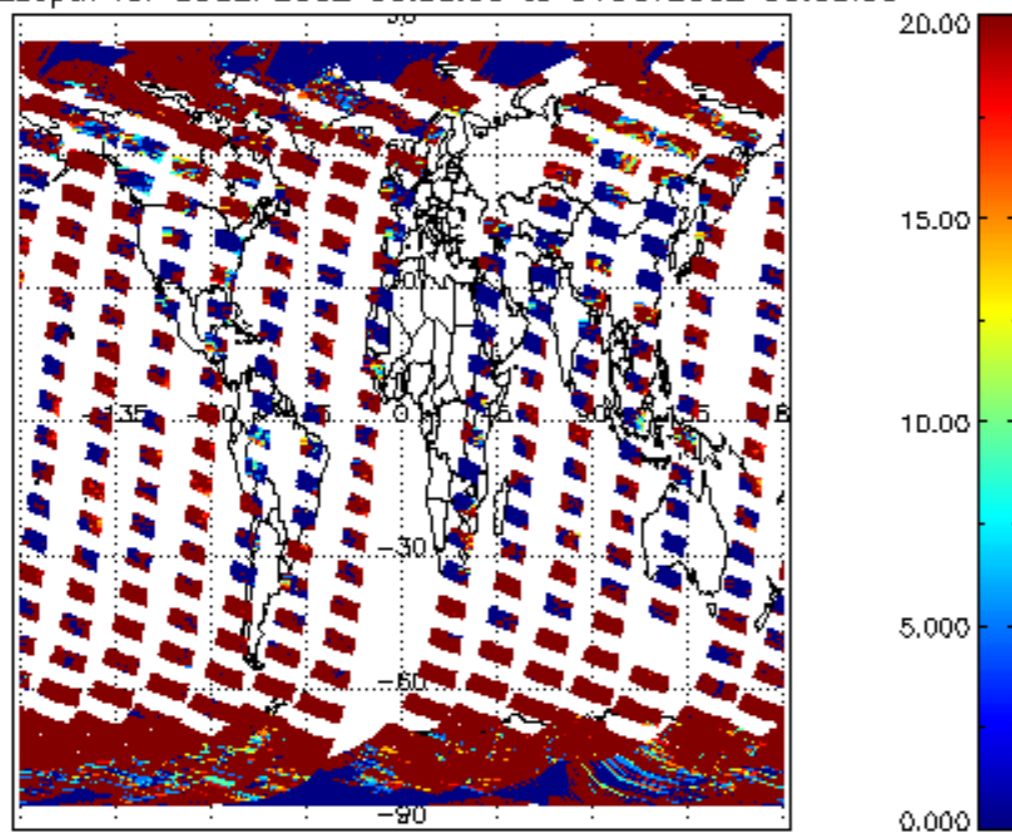
cLfrac for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



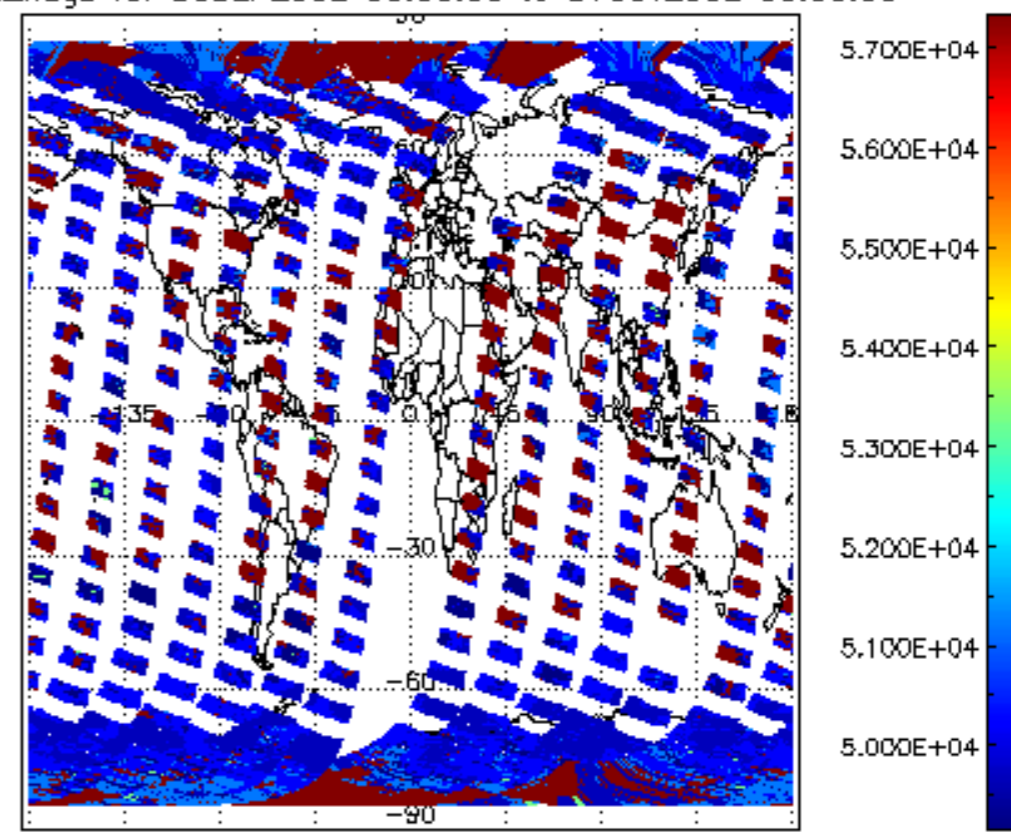
cl_top_height for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

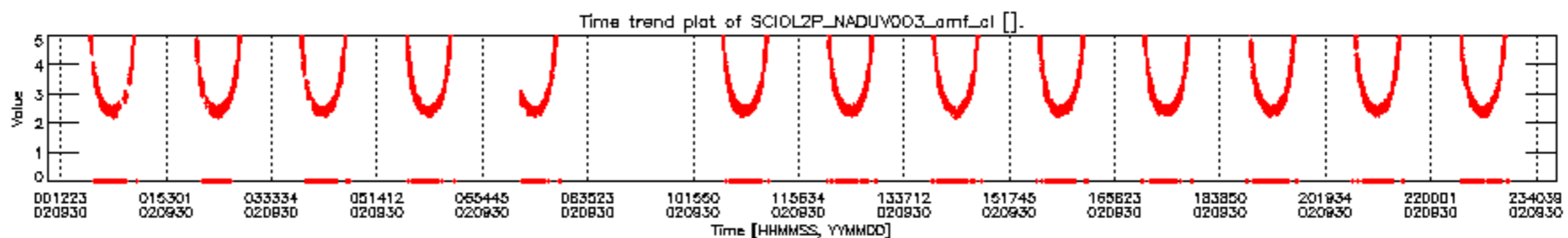
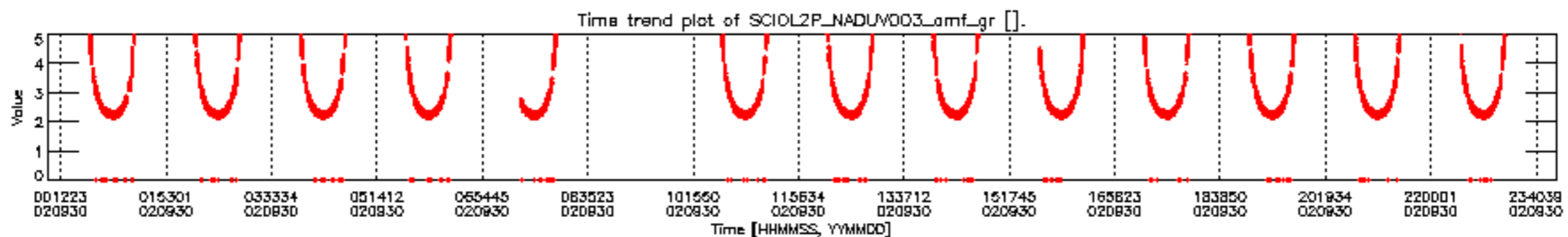
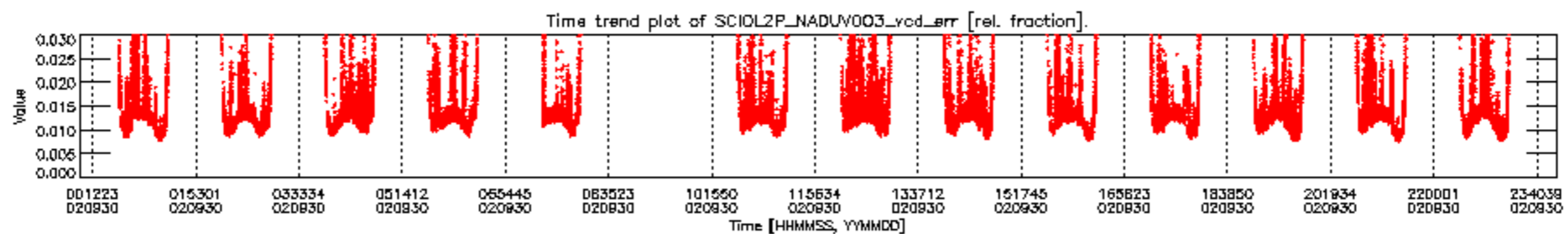
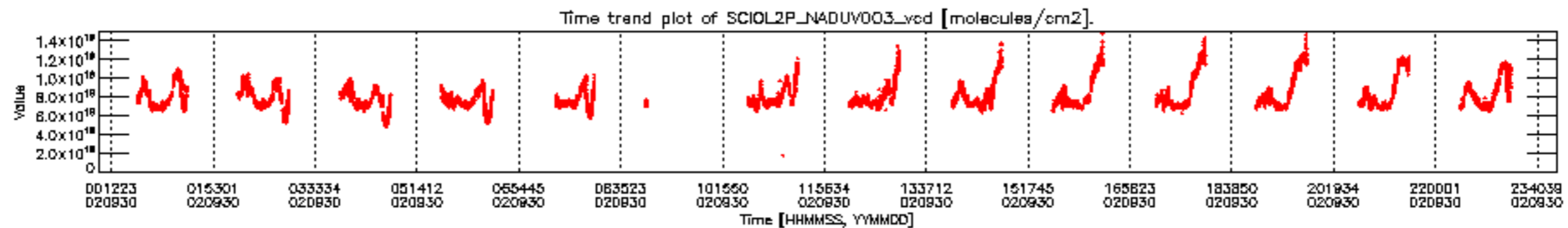


cl_opt_depth for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

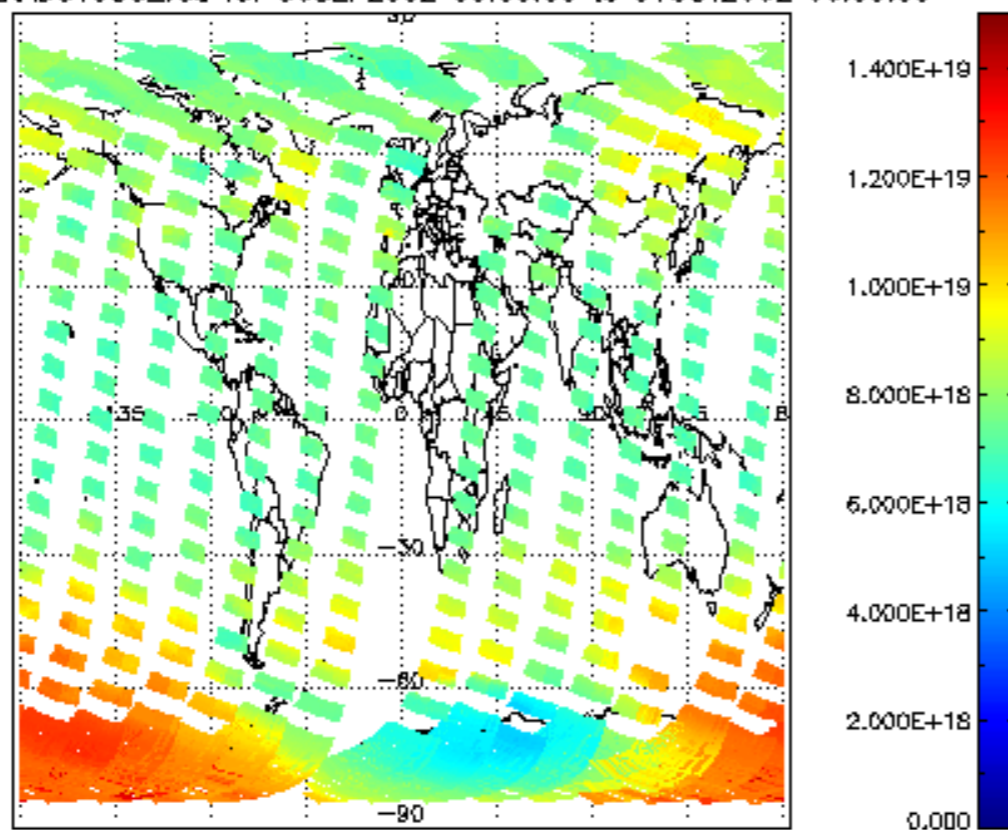


cloud_flags for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

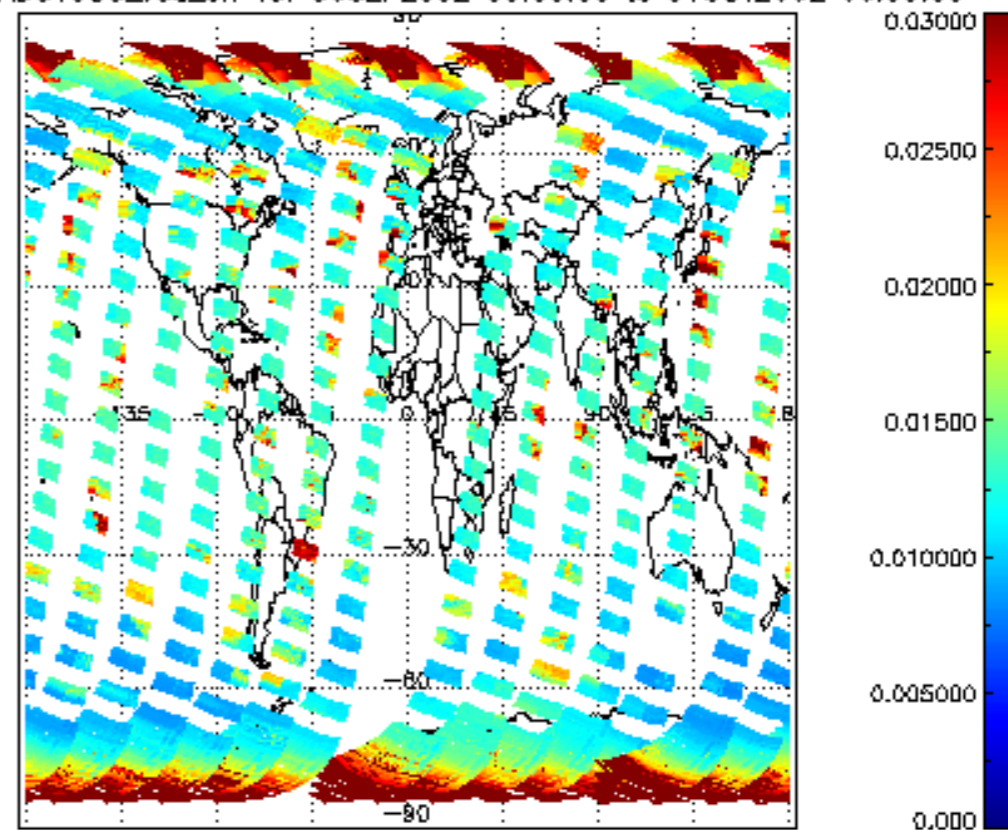




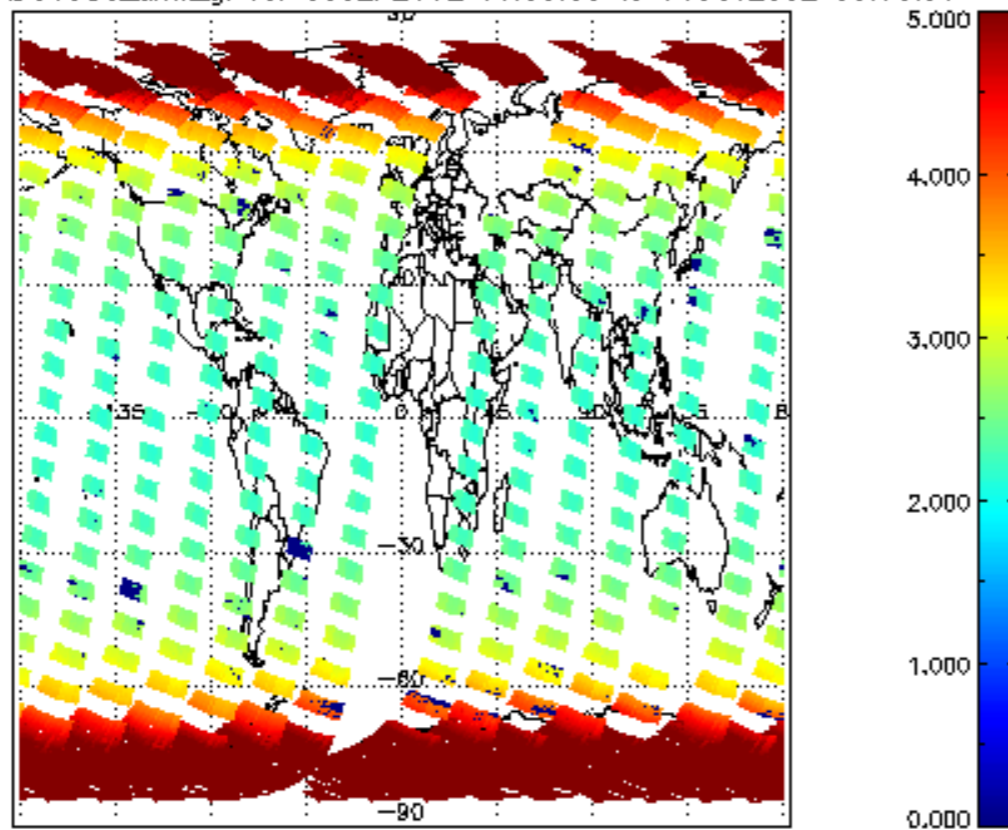
SCIOL2P_NADUV003_vcd for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



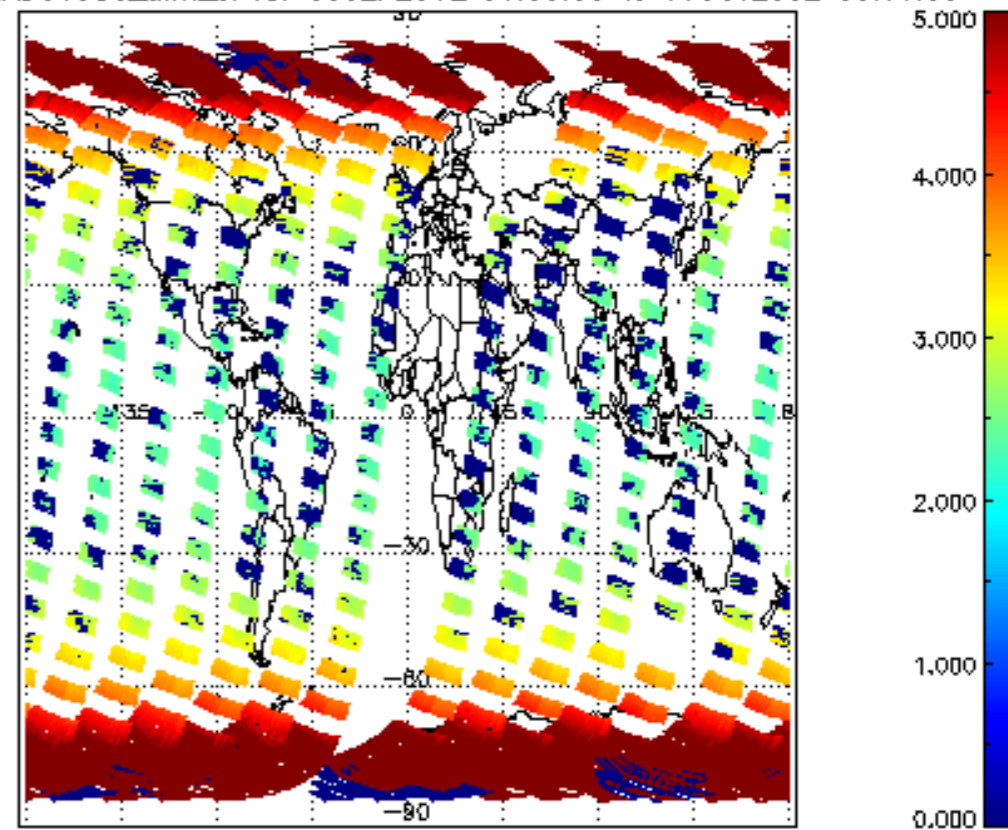
SCIOL2P_NADUV003_vcd_err for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

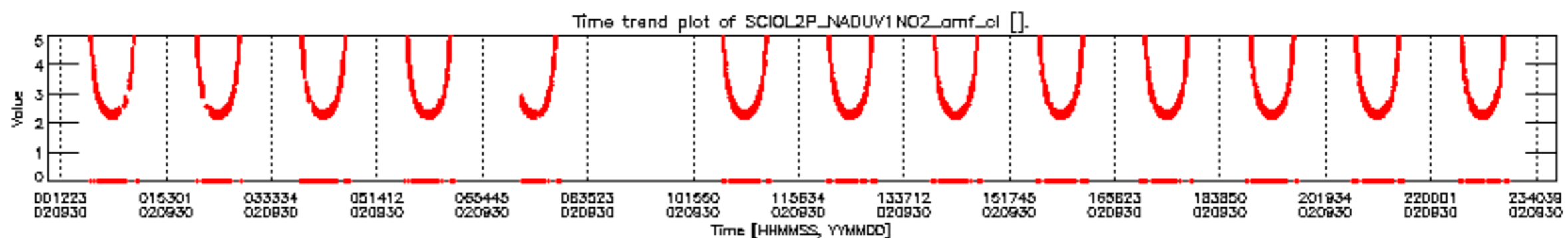
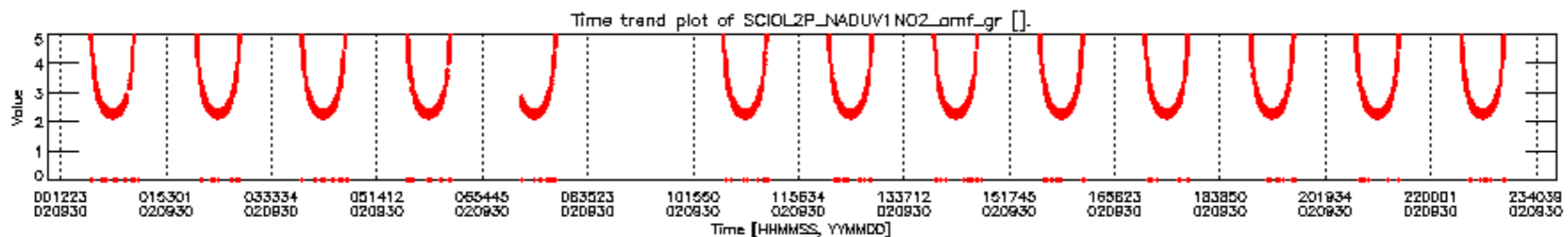
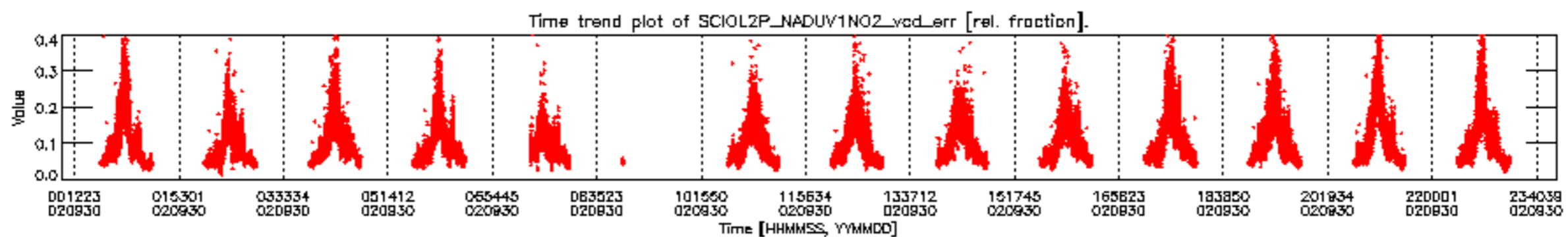
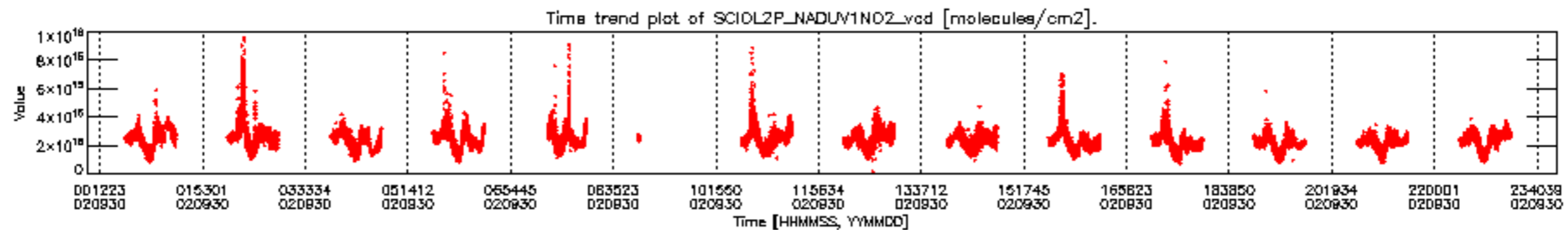


SCIOL2P_NADUV003_amf_gr for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

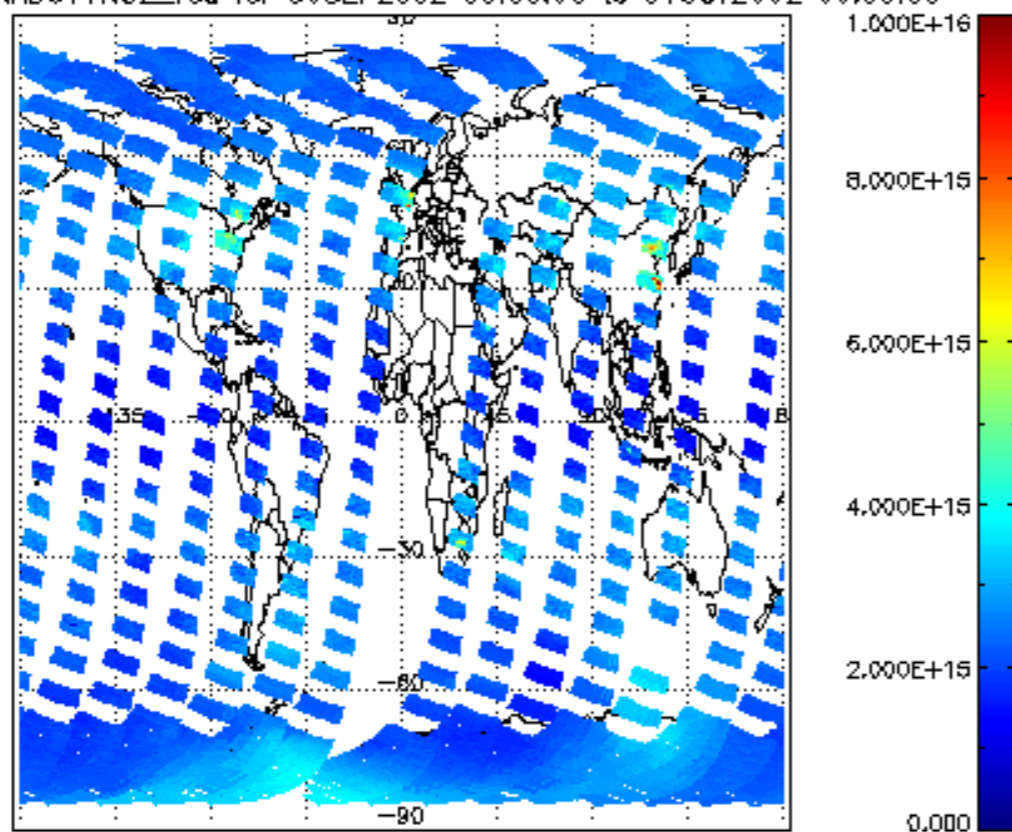


SCIOL2P_NADUV003_amf_cl for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

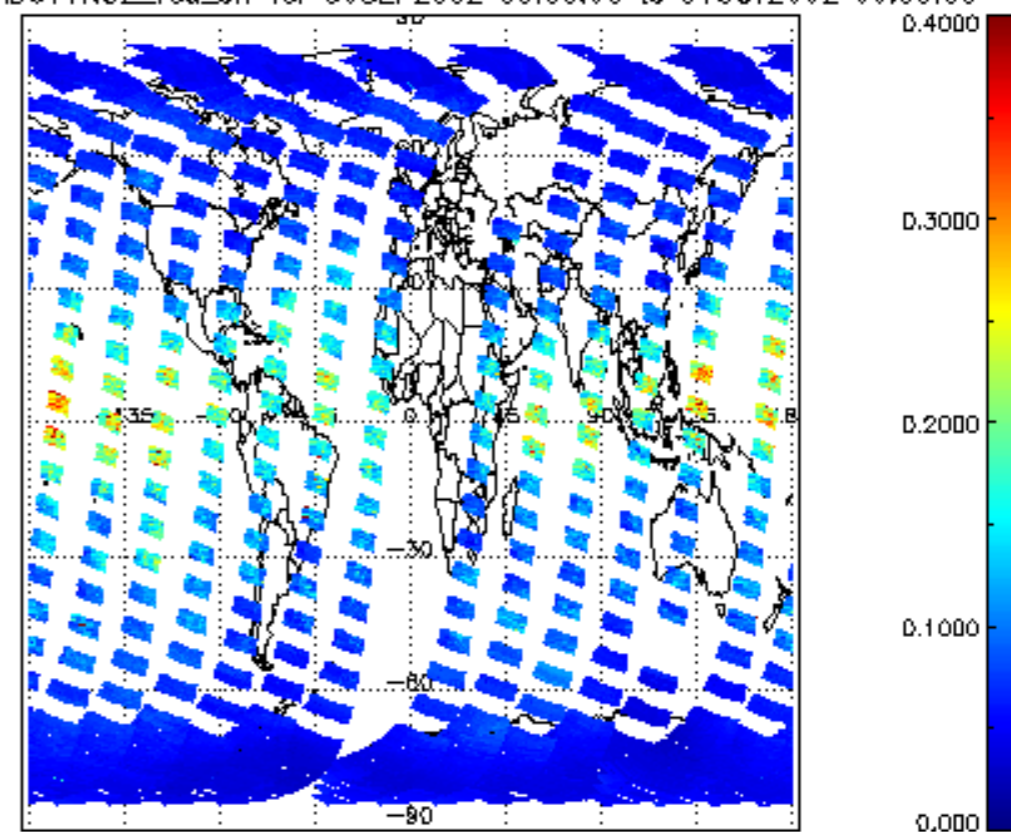




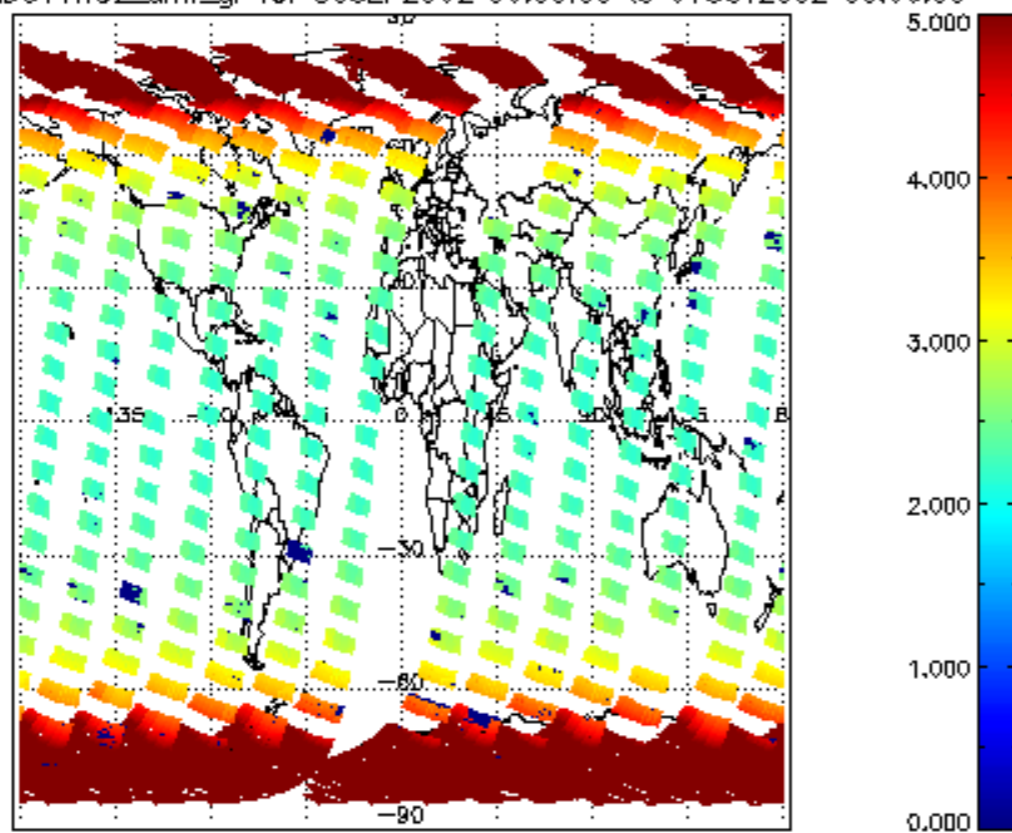
SCIOL2P_NADUV1NO2_vcd for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



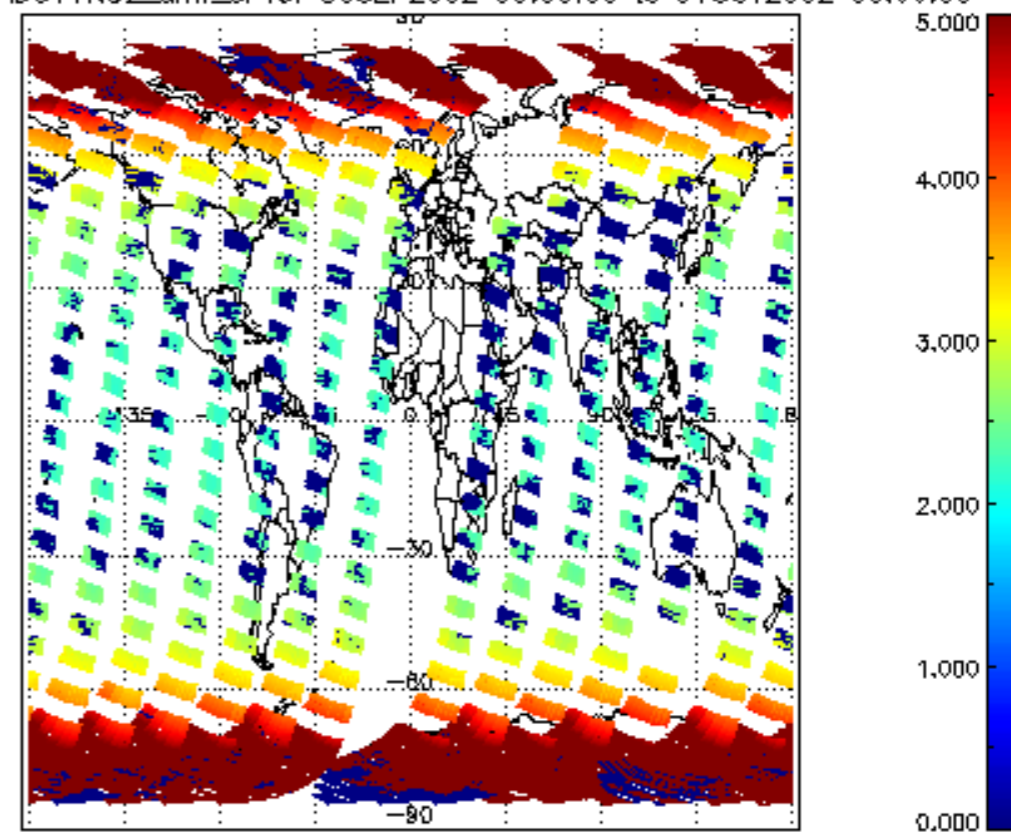
SCIOL2P_NADUV1NO2_vcd_err for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

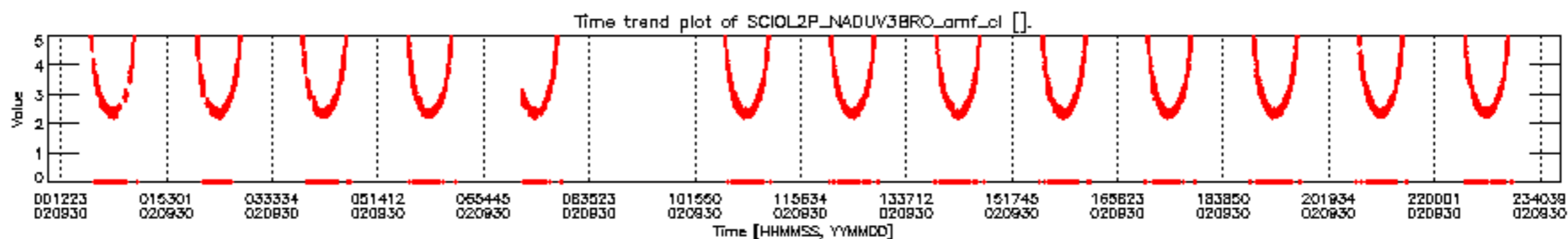
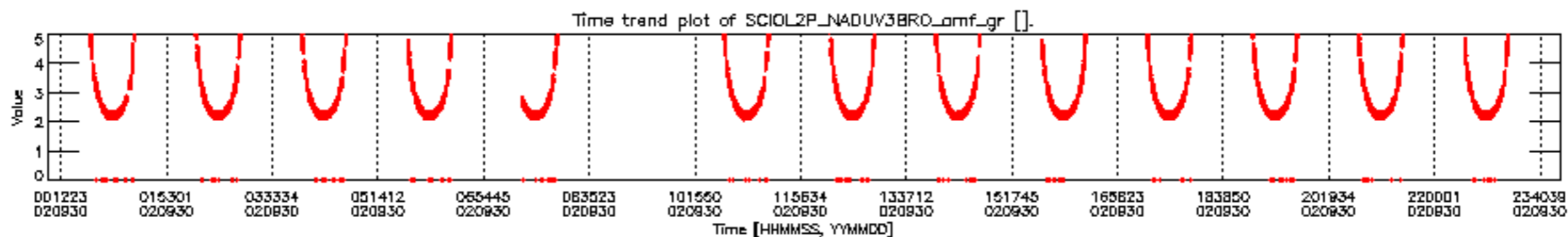
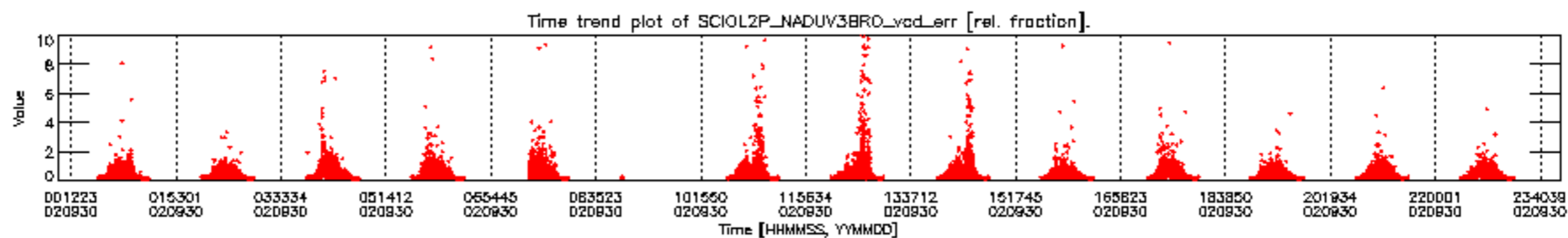
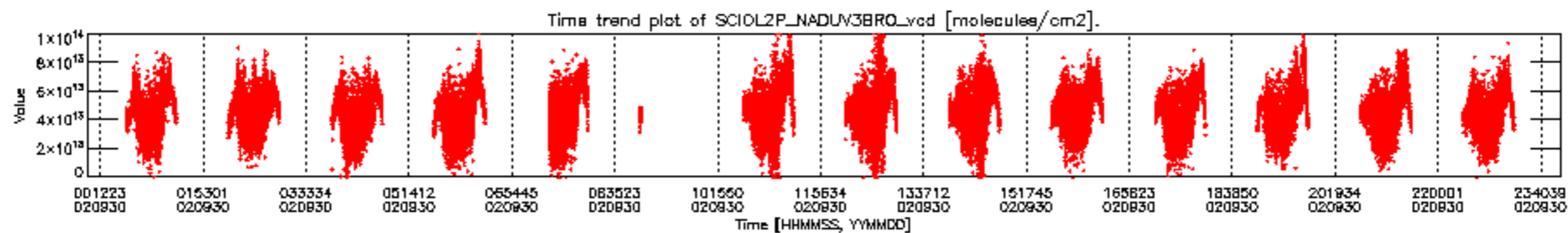


SCIOL2P_NADUV1NO2_amf_gr for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

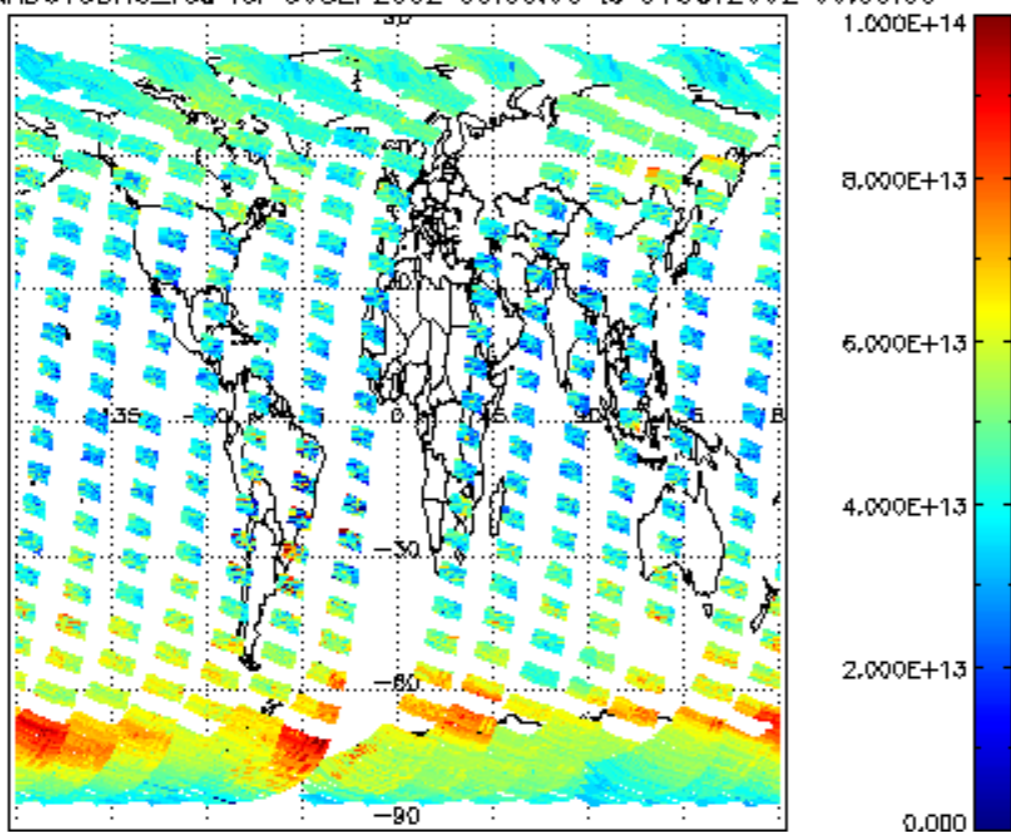


SCIOL2P_NADUV1NO2_amf_cl for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

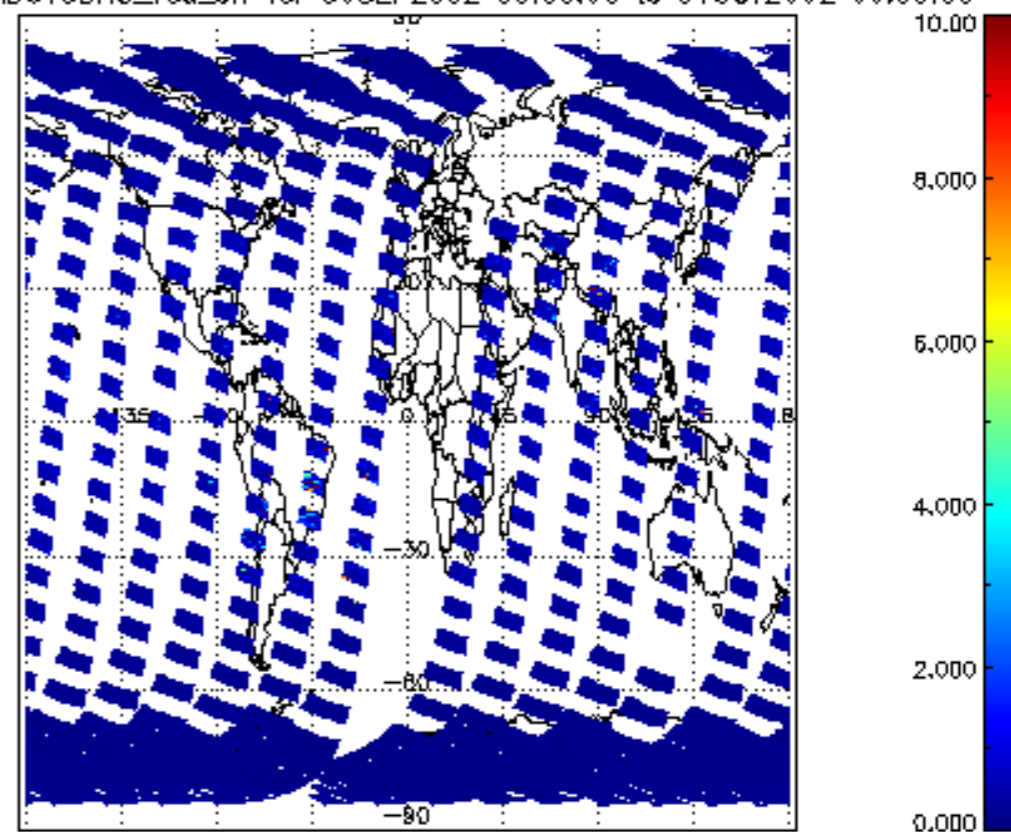




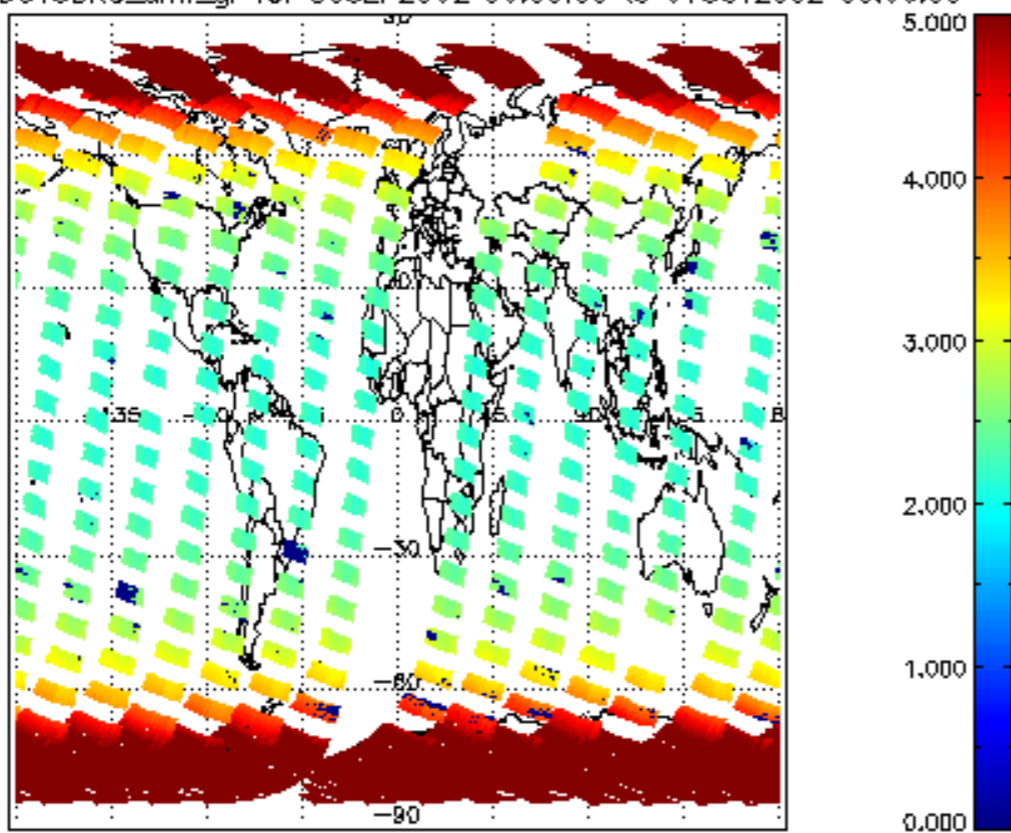
SCIOL2P_NADUV3BRO_vcd for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



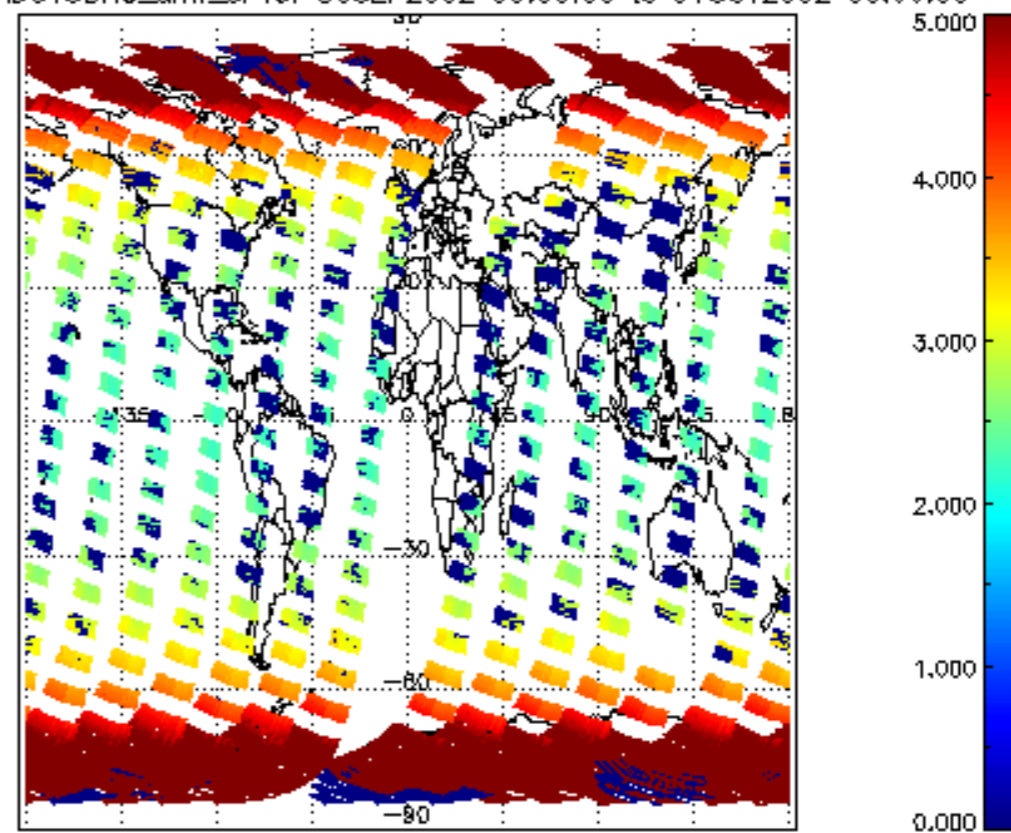
SCIOL2P_NADUV3BRO_vcd_err for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

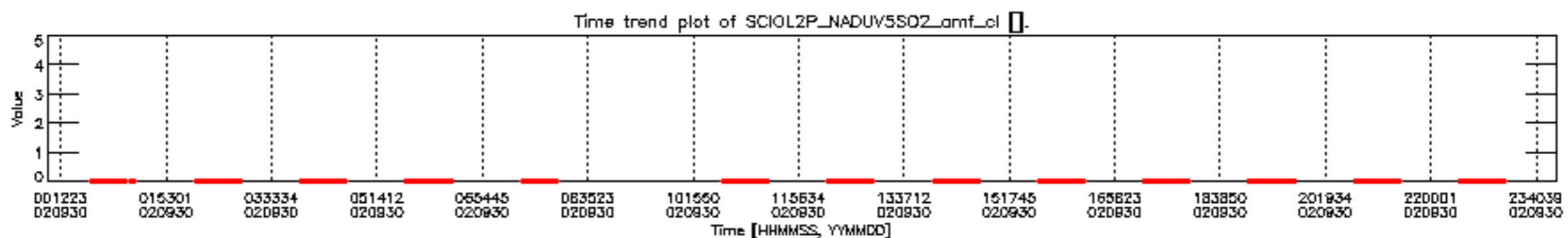
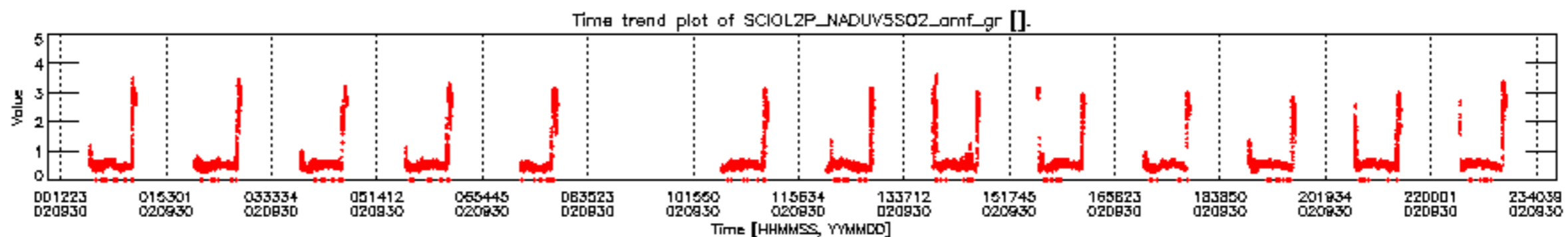
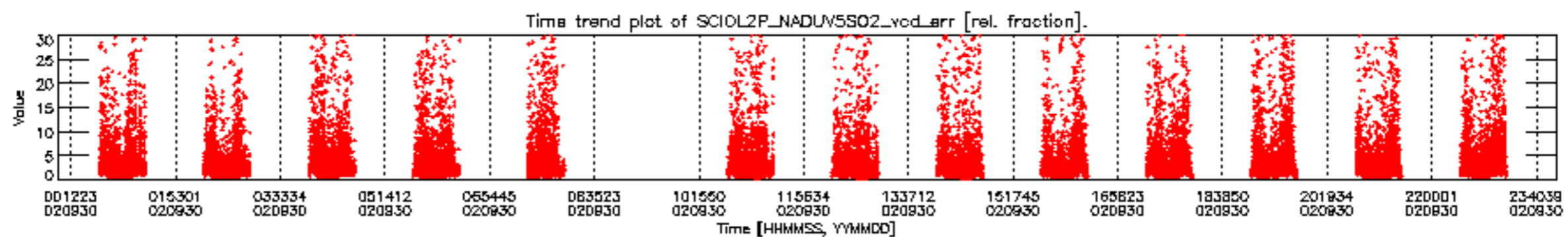
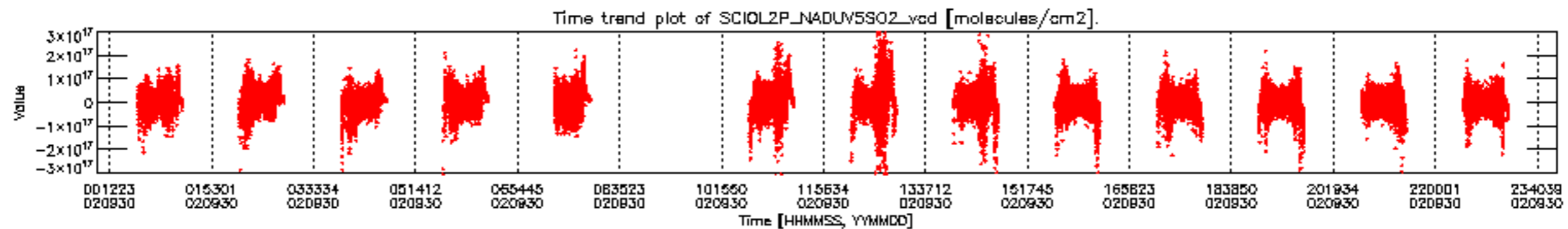


SCIOL2P_NADUV3BRO_amf_gr for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

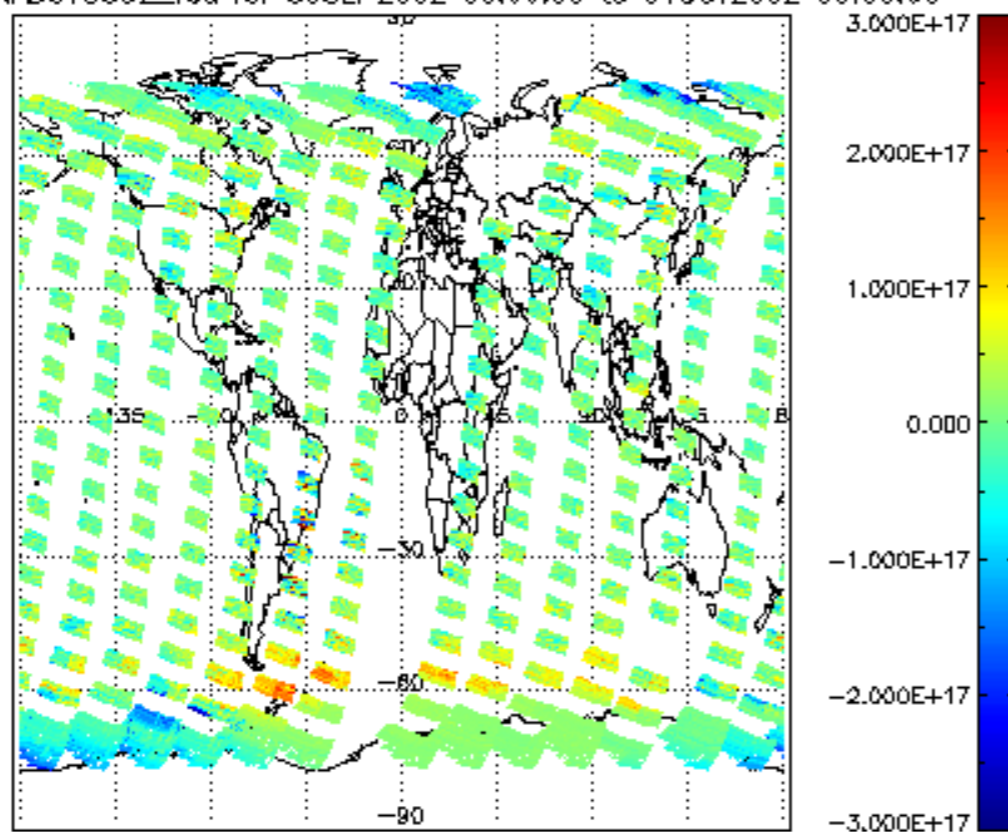


SCIOL2P_NADUV3BRO_amf_cl for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

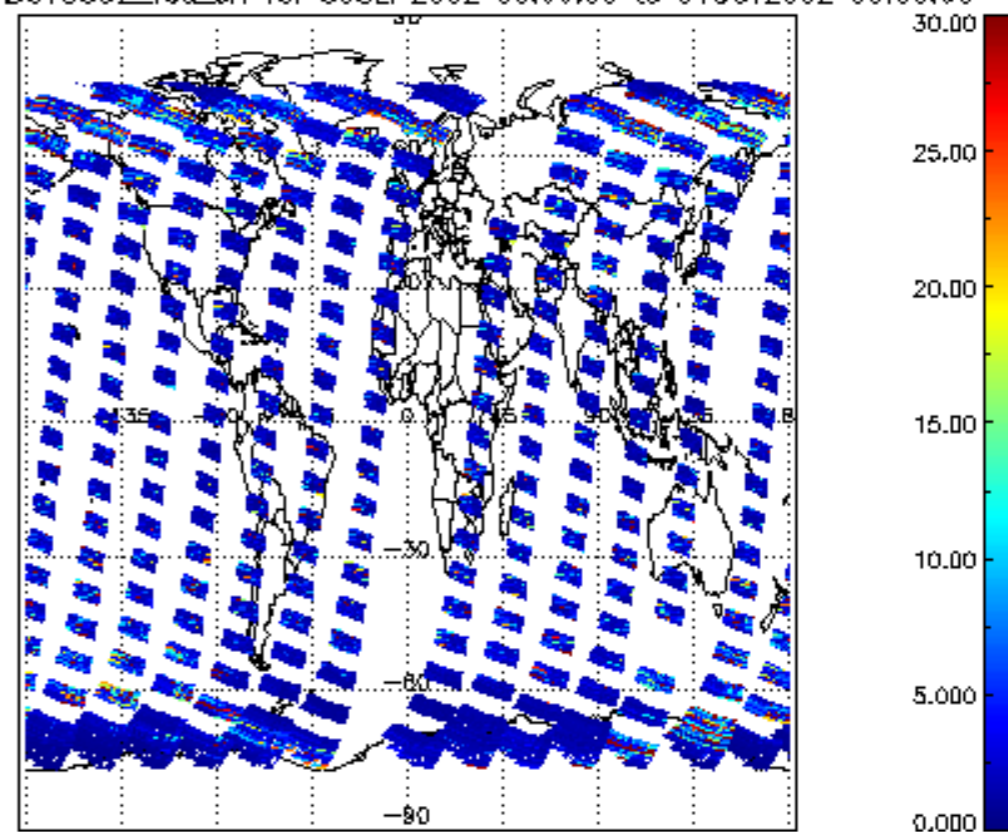




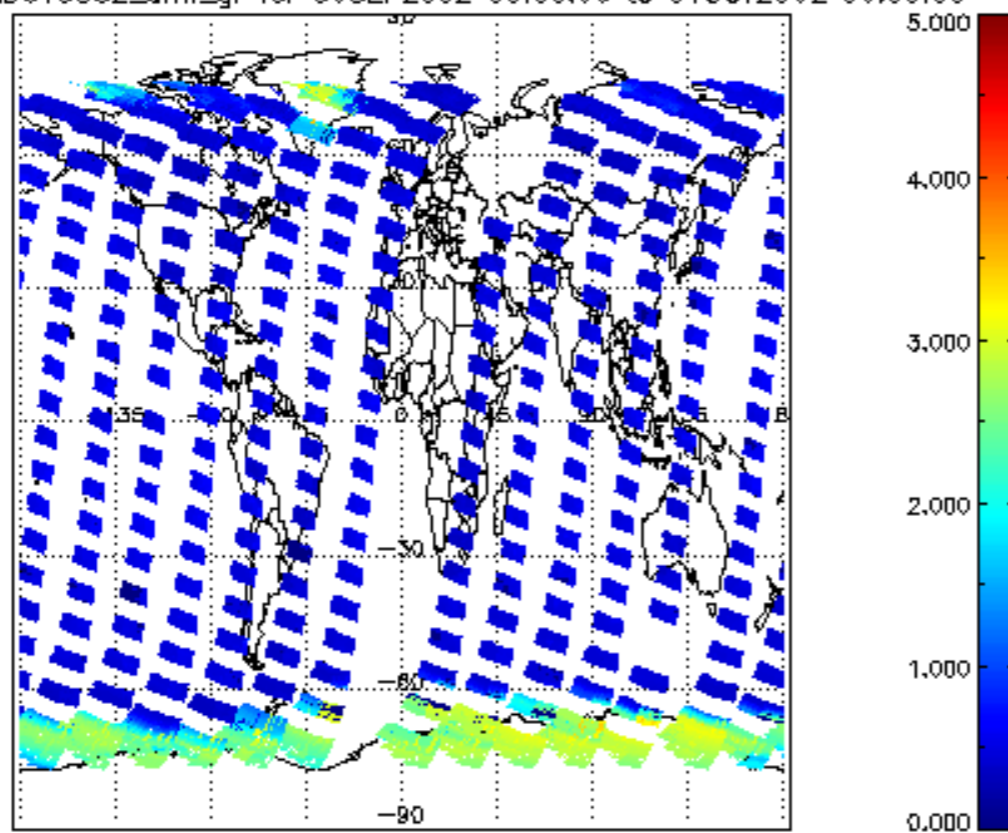
SCIOL2P_NADUV5S02_vcd for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



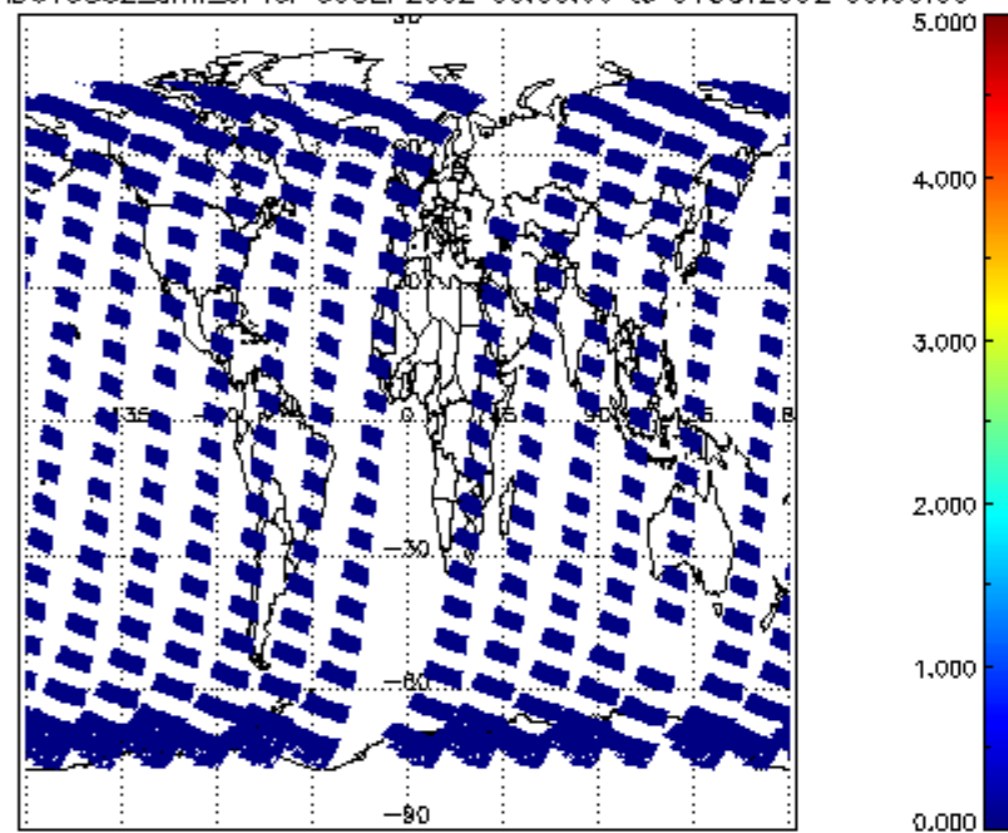
SCIOL2P_NADUV5S02_vcd_err for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



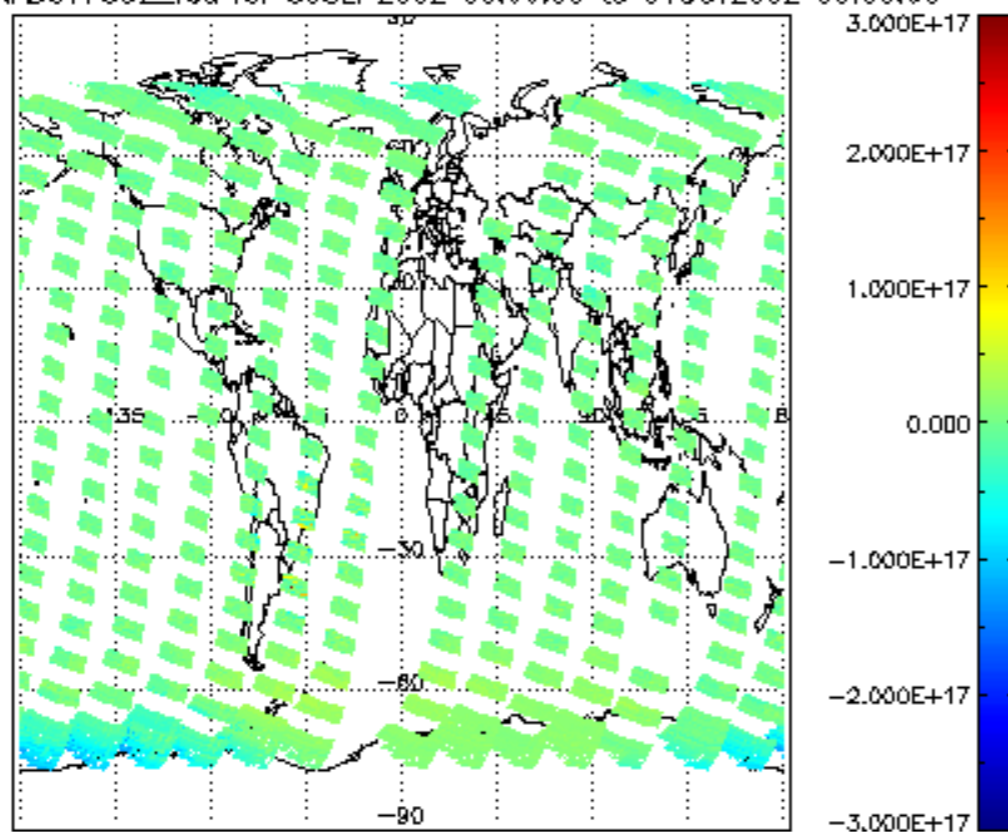
SCIOL2P_NADUV5S02_amf_gr for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



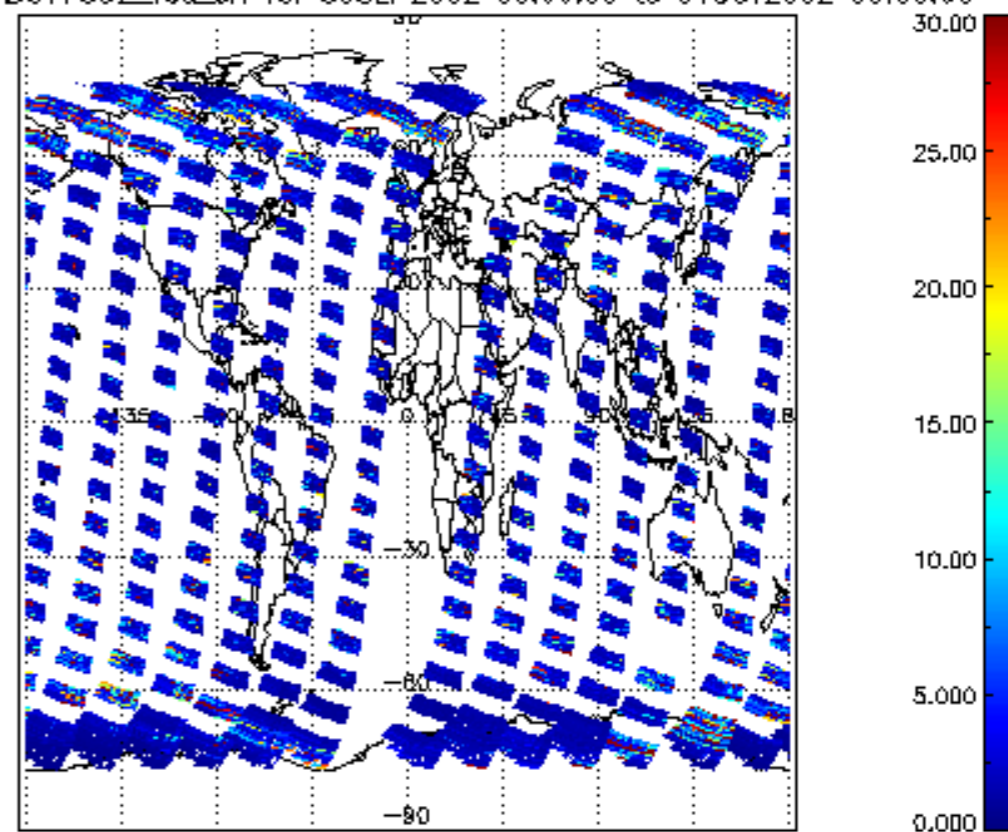
SCIOL2P_NADUV5S02_amf_cl for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



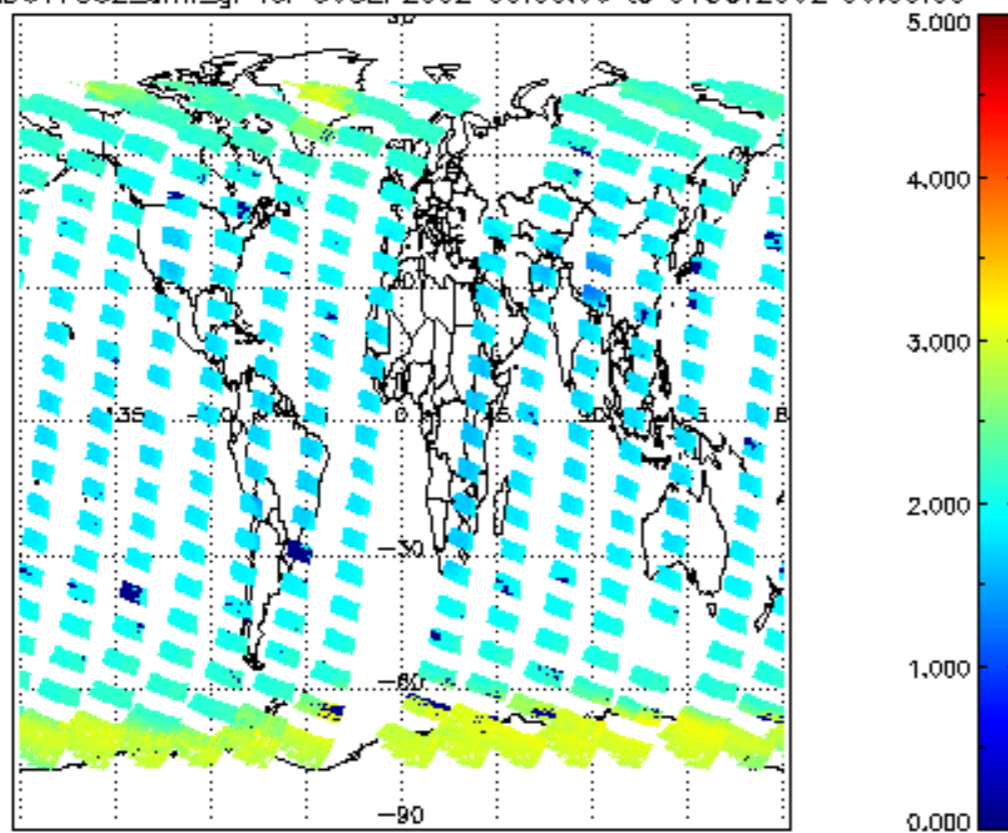
SCIOL2P_NADUV7S02_vcd for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



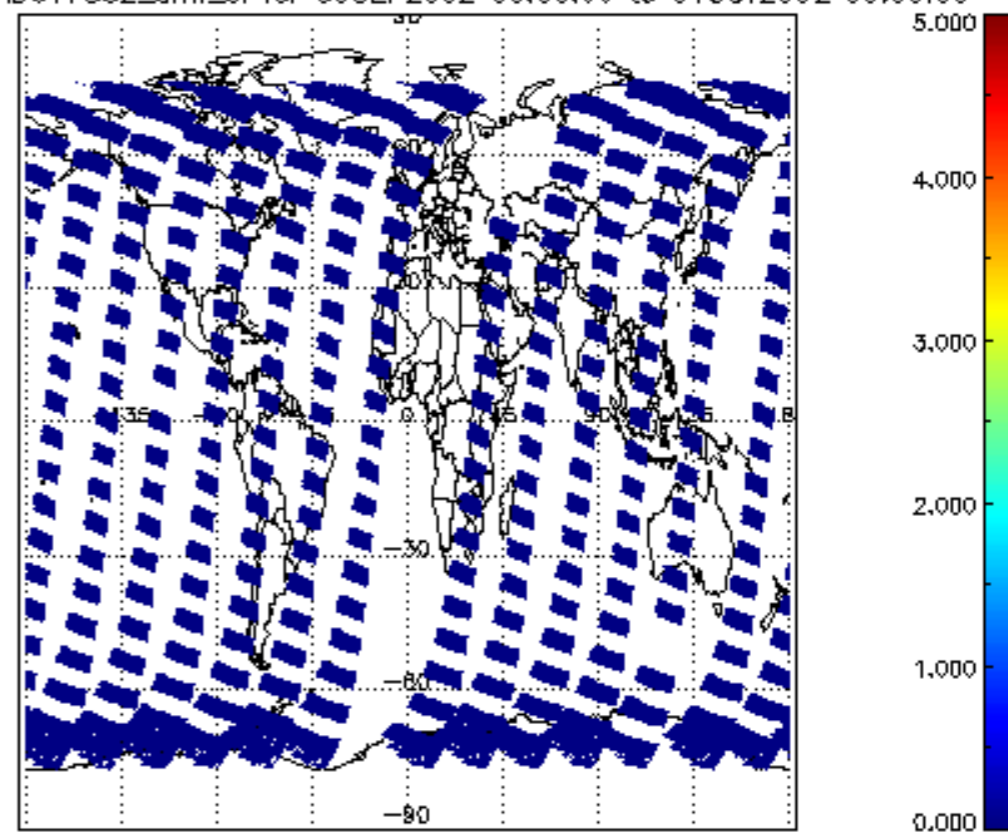
SCIOL2P_NADUV7S02_vcd_err for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

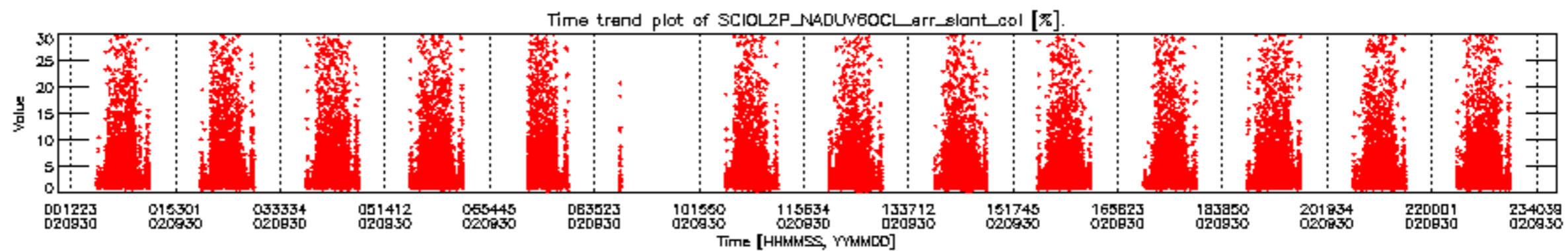
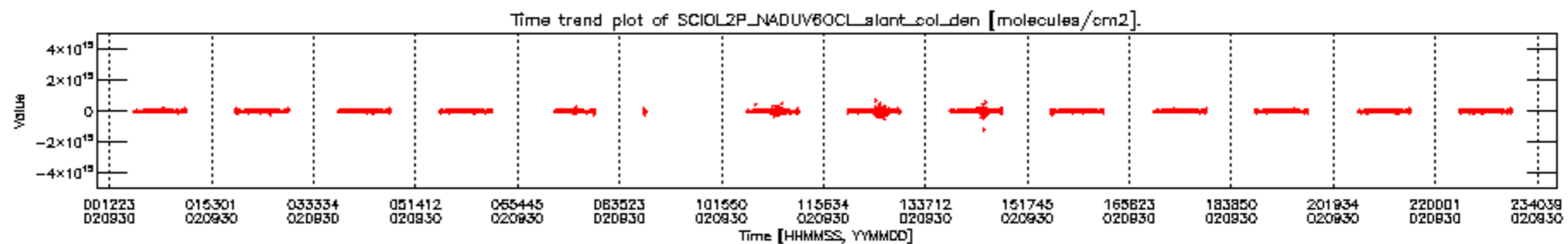


SCIOL2P_NADUV7S02_amf_gr for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

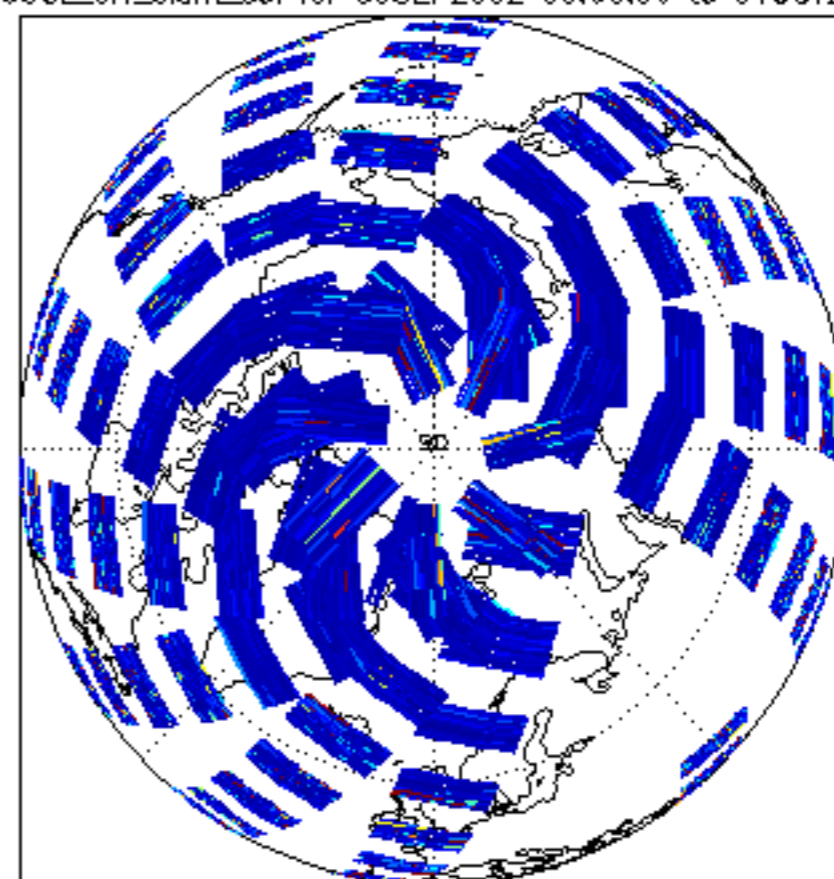
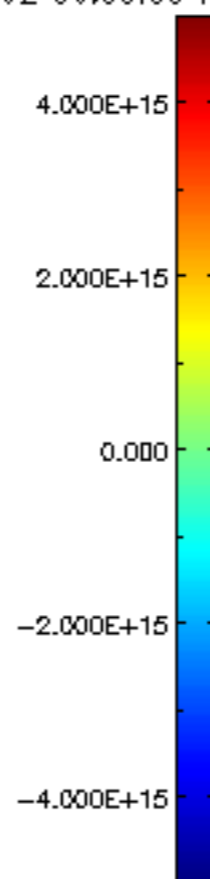
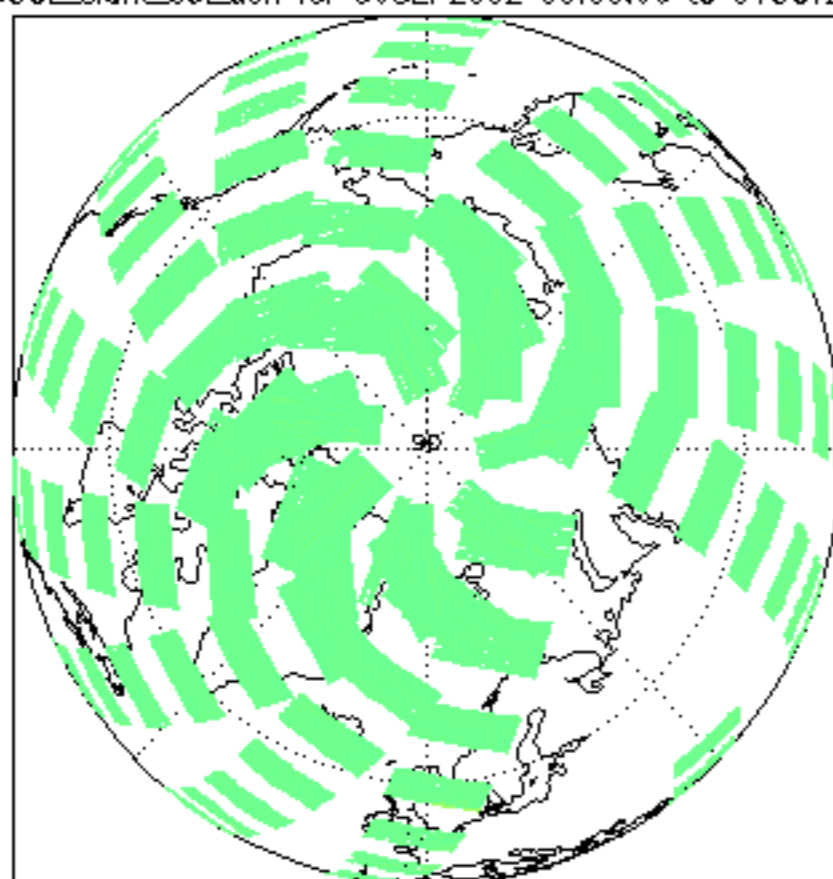


SCIOL2P_NADUV7S02_amf_cl for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

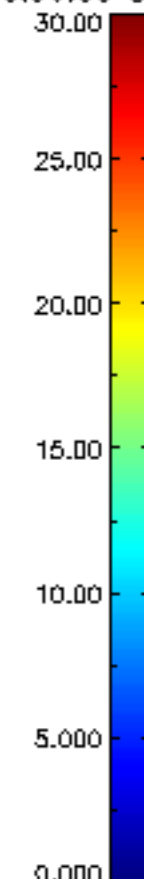
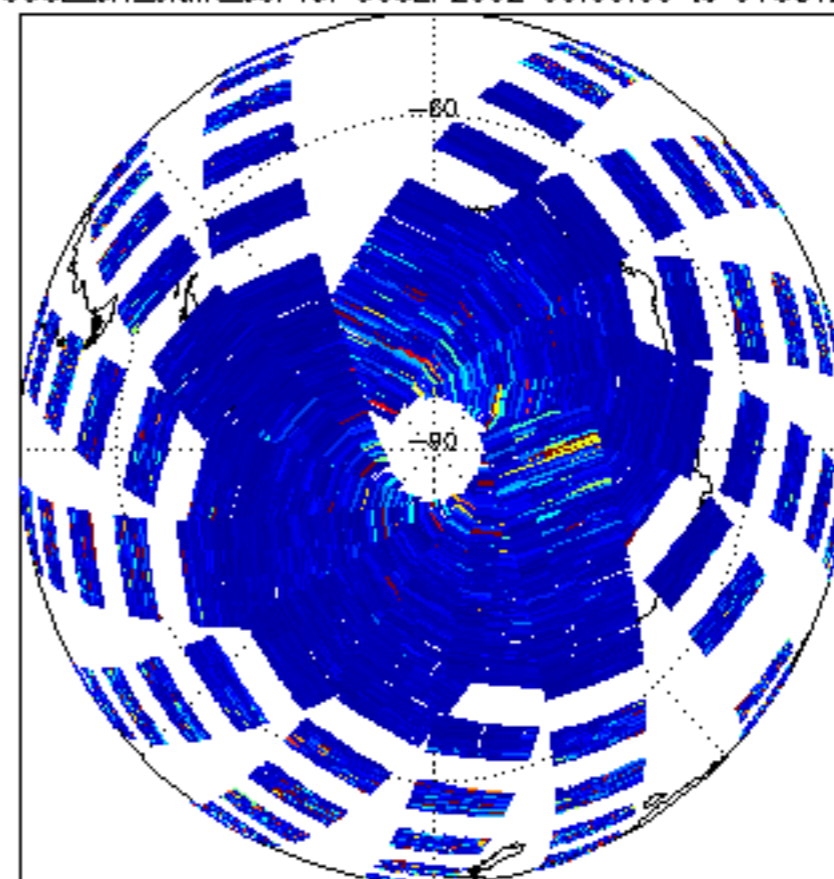
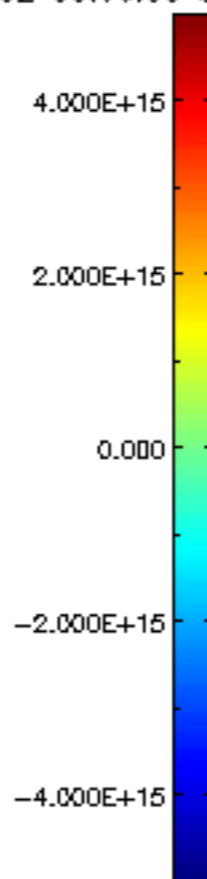
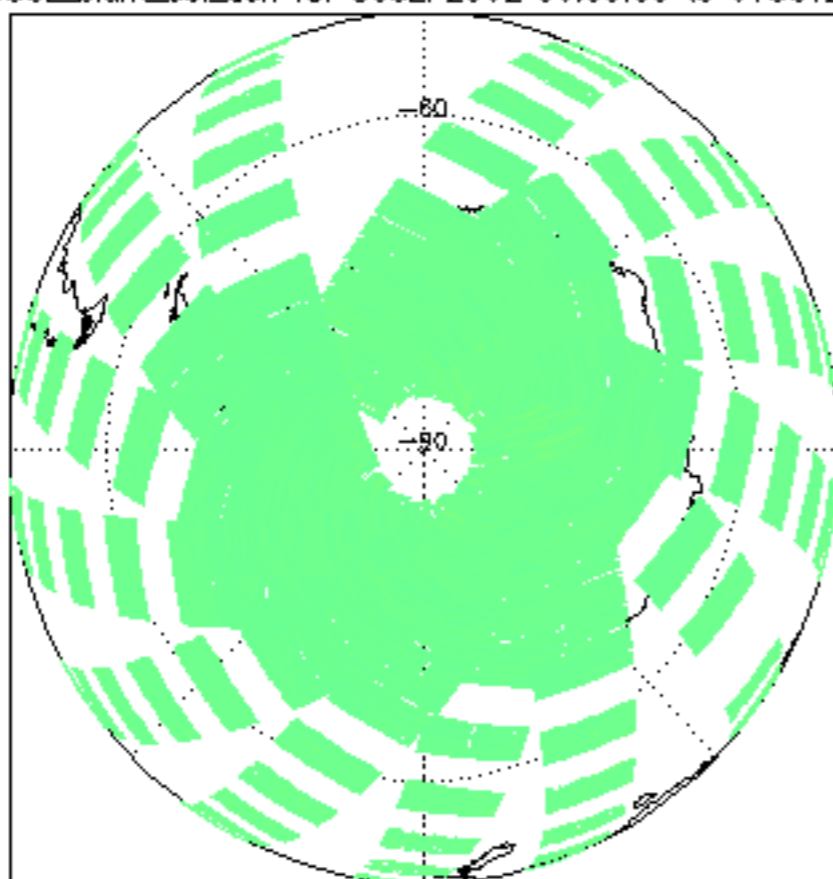




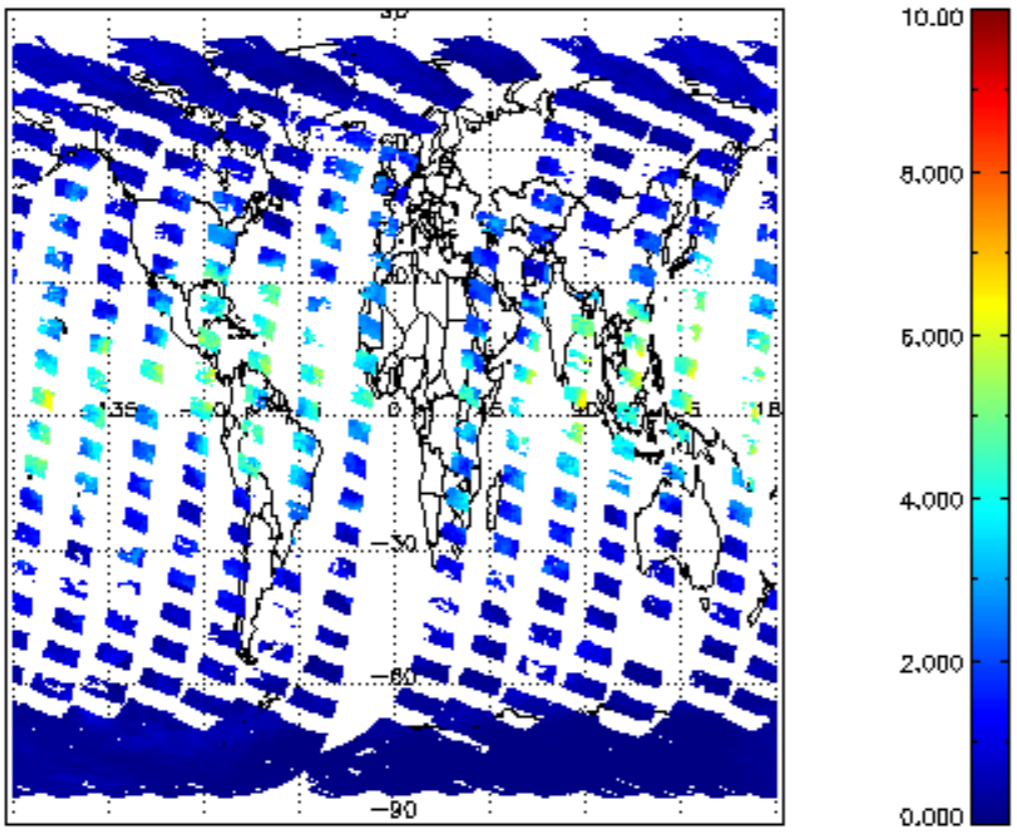
CIOL2P_NADUV6OCL_slant_col_den for 30SEP2002 00:00:00 to 01OCT2002 00:00:00 np CIOL2P_NADUV6OCL_err_slant_col for 30SEP2002 00:00:00 to 01OCT2002 00:00:00 np



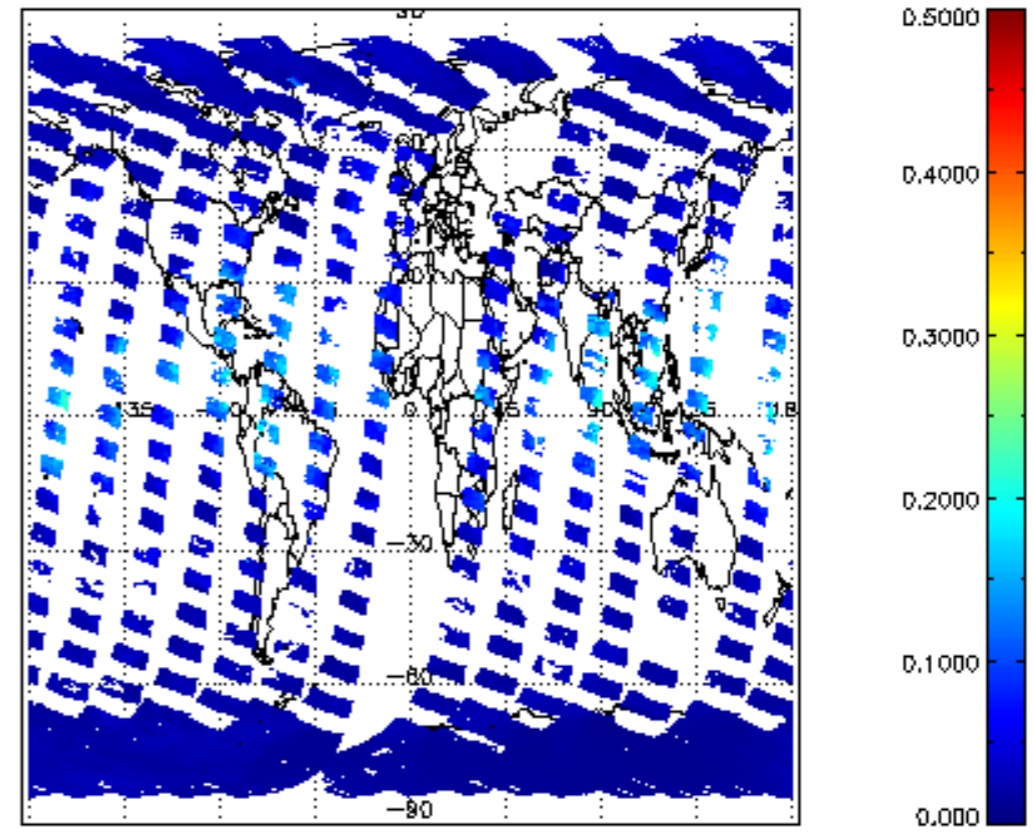
CIOL2P_NADUV60CL_slant_col_den for 30SEP2002 00:00:00 to 01OCT2002 00:00:00 sp; CIOL2P_NADUV60CL_err_slant_col for 30SEP2002 00:00:00 to 01OCT2002 00:00:00 sp



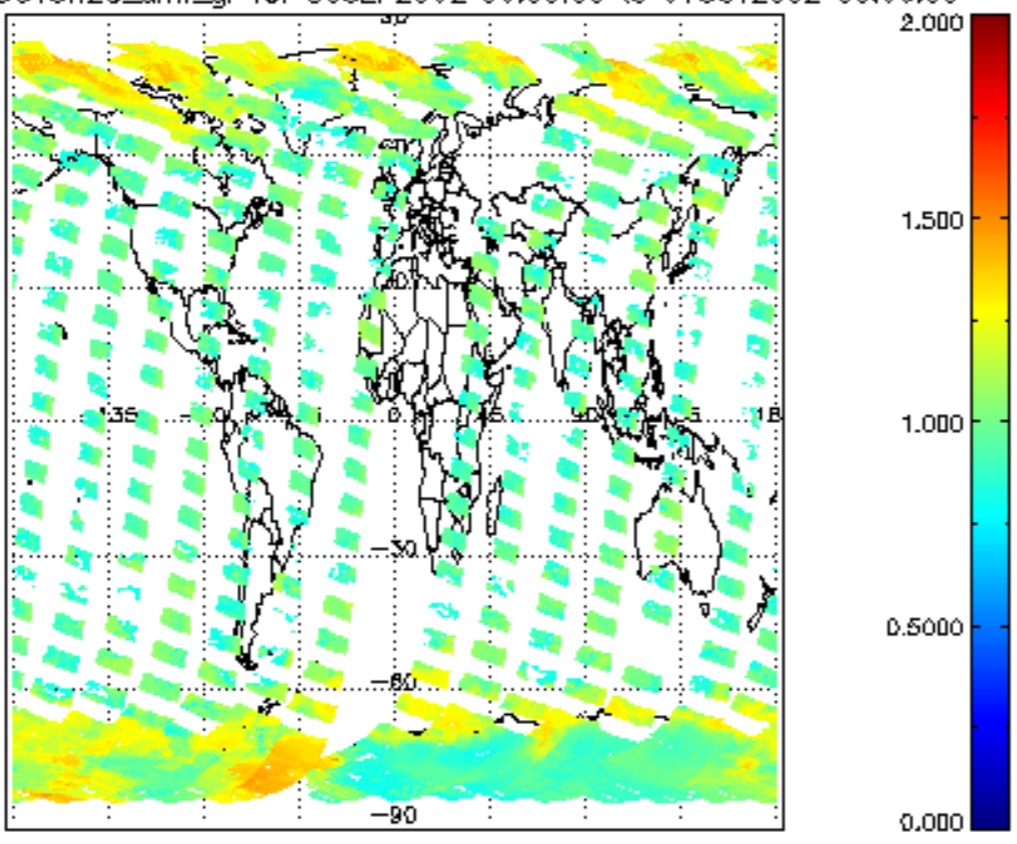
SCIOL2P_NADUV8H2O_vcd for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

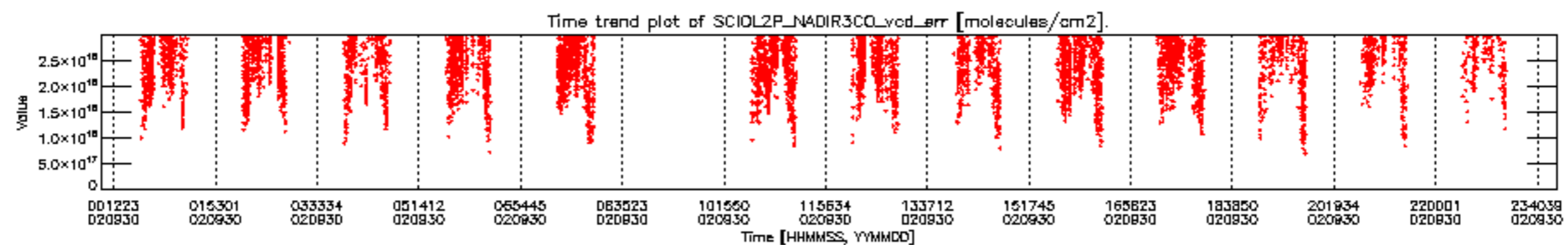
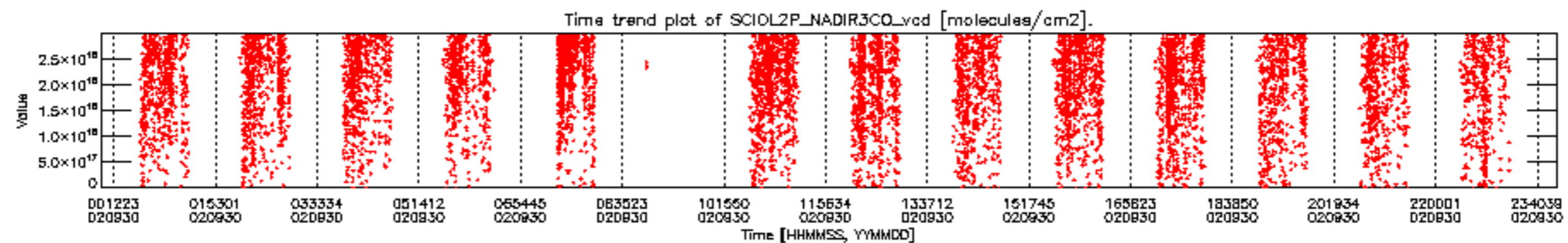


SCIOL2P_NADUV8H2O_vcd_err for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

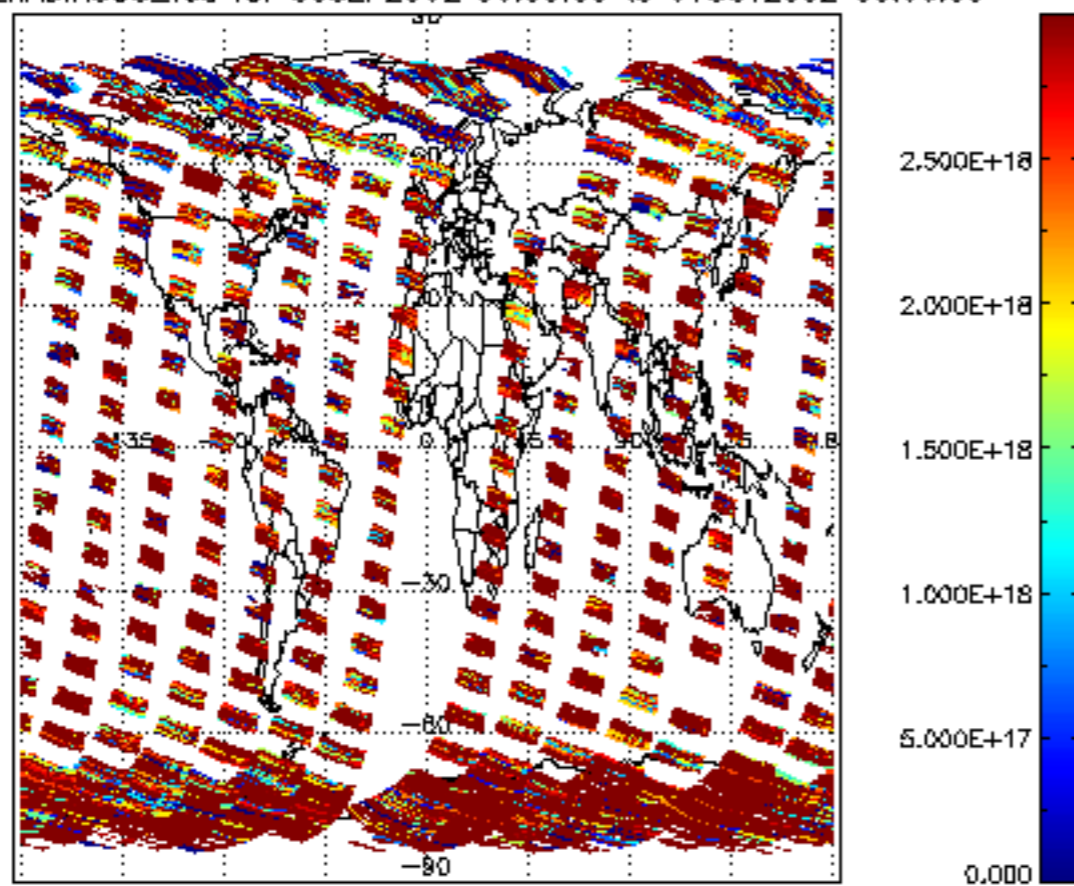


SCIOL2P_NADUV8H2O_amf_gr for 30SEP2002 00:00:00 to 01OCT2002 00:00:00

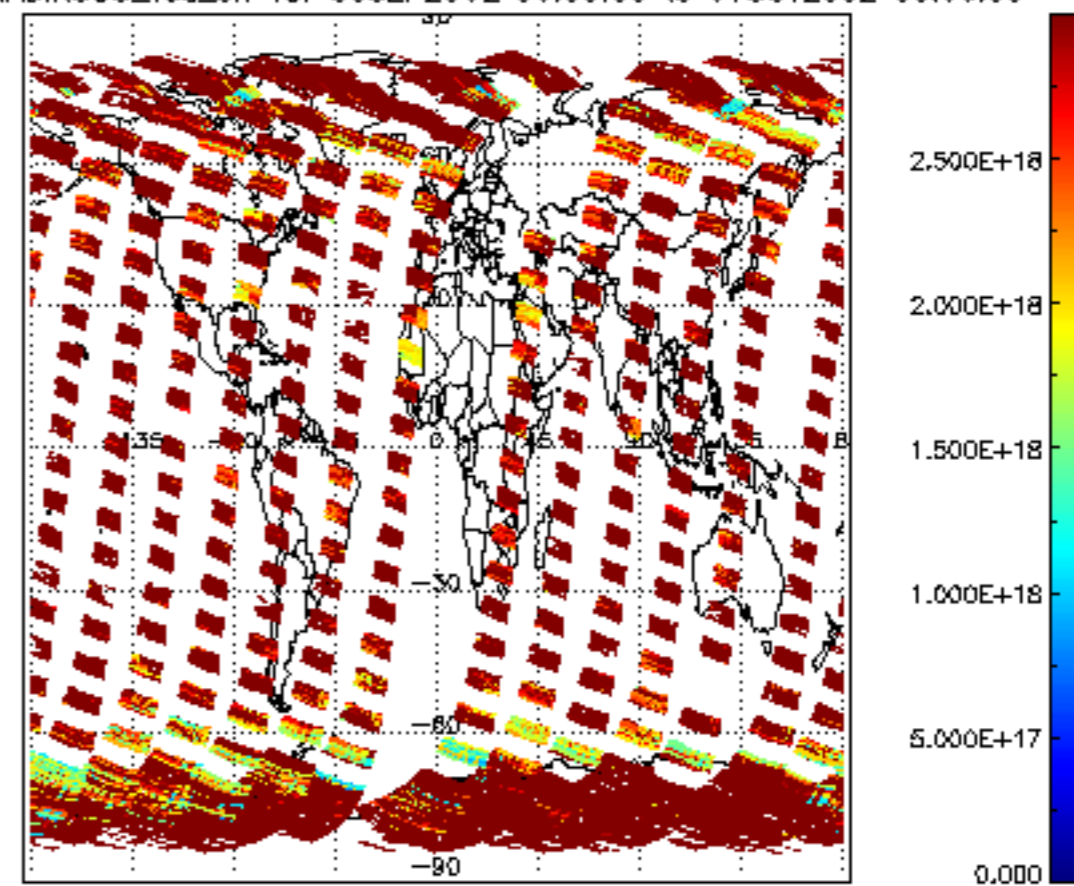




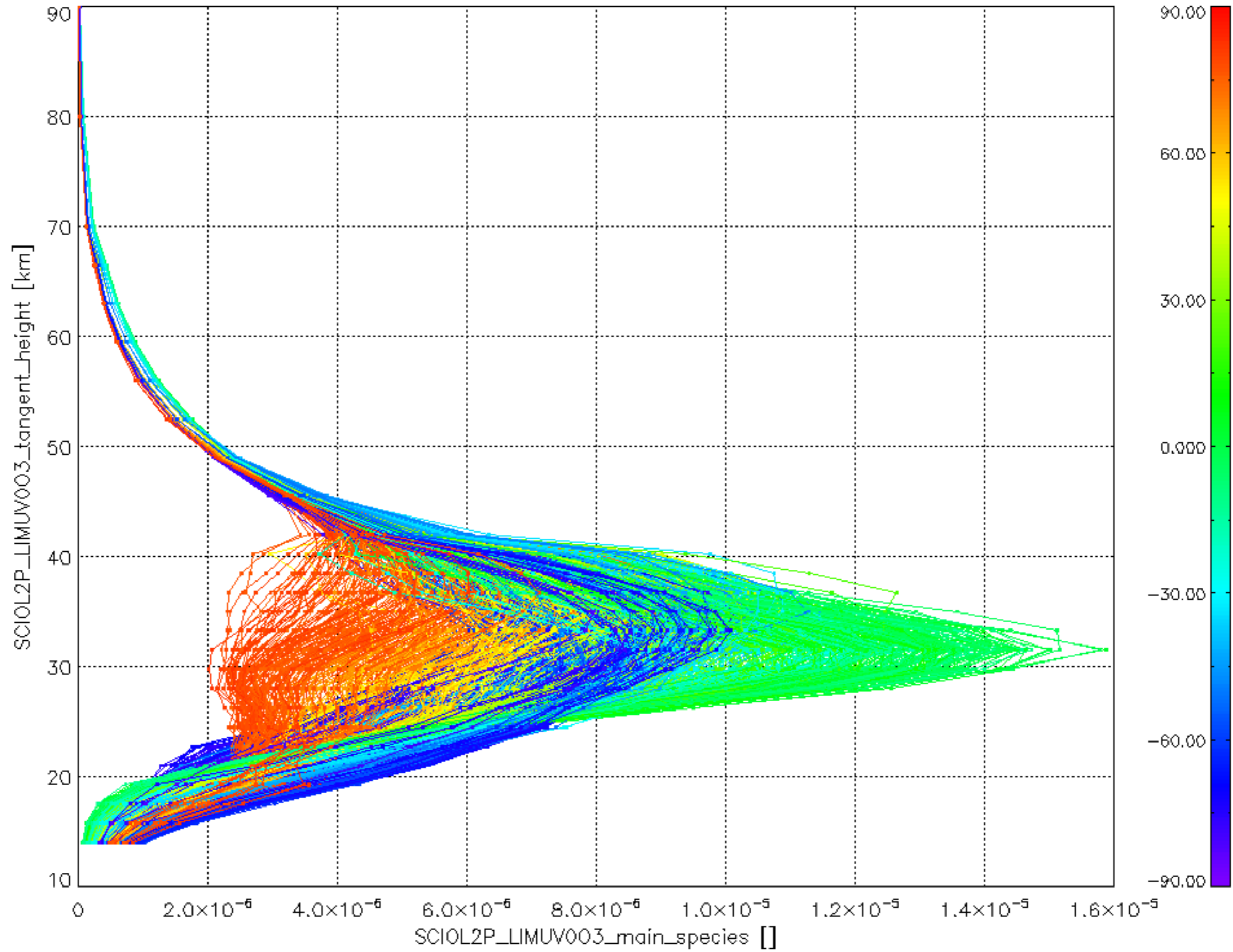
SCIOL2P_NADIR3CO_vcd for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



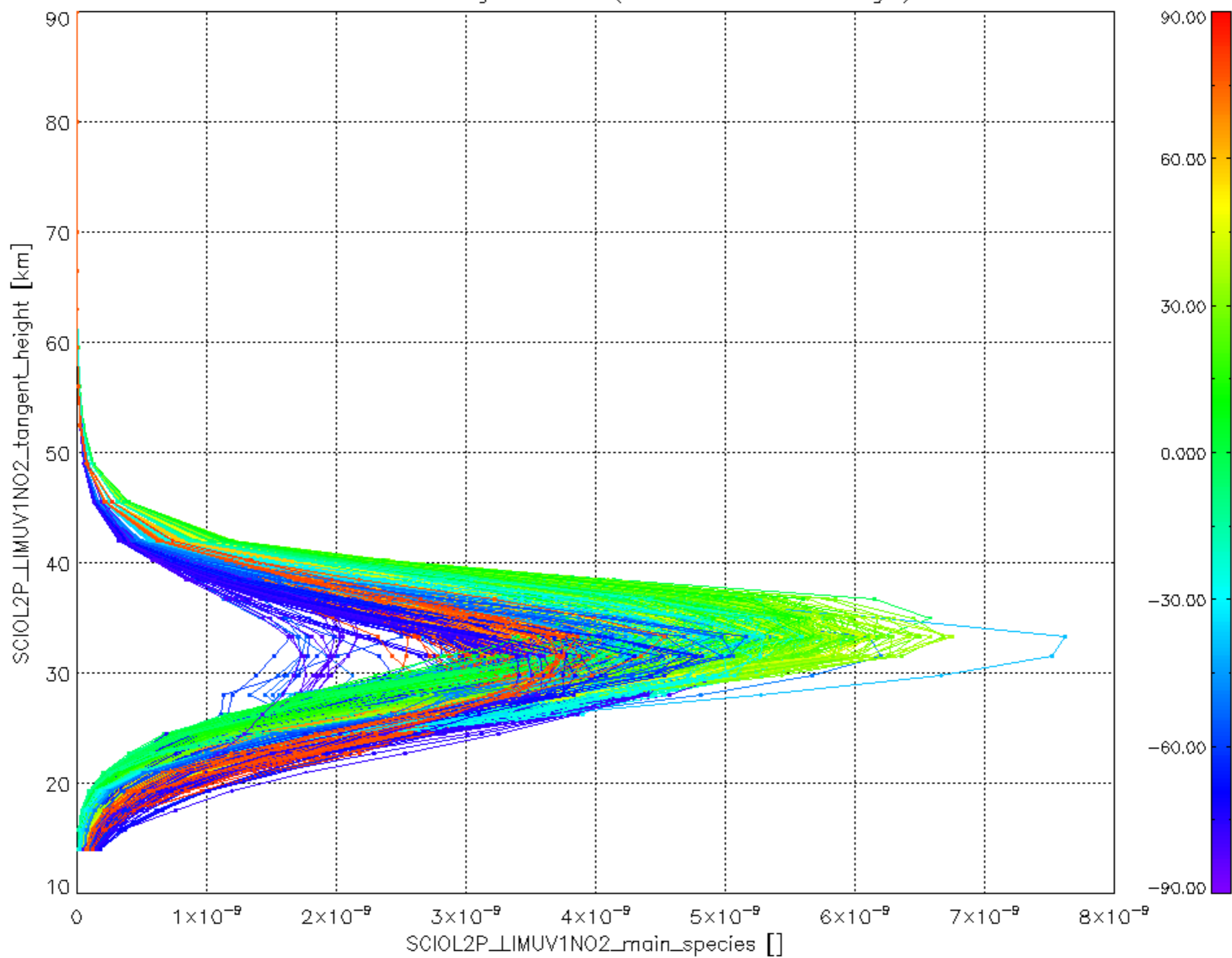
SCIOL2P_NADIR3CO_vcd_err for 30SEP2002 00:00:00 to 01OCT2002 00:00:00



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



Plot of SCIOL2P_LIMUV1N02_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).

