

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	28FEB2012 11:56:51
Data source version	SCIA-OL/5.02-W
Processing scope for products	10DEC2002 00:00:00 to 11DEC2002 00:00:00
Start time of first product within scope	10DEC2002 00:09:51
Stop time of last product within scope	11DEC2002 00:23:46
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__2PWDPA20021210_000951_000031332012_00002_04064_2693.N1	10DEC2002 00:09:51	10DEC2002 01:02:04	0	GOOD
1	SCI_OL__2PWDPA20021210_015027_000031332012_00003_04065_2694.N1	10DEC2002 01:50:27	10DEC2002 02:42:40	0	GOOD
2	SCI_OL__2PWDPA20021210_033103_000031332012_00004_04066_2695.N1	10DEC2002 03:31:03	10DEC2002 04:23:16	0	GOOD
3	SCI_OL__2PWDPA20021210_051139_000031332012_00005_04067_2696.N1	10DEC2002 05:11:39	10DEC2002 06:03:52	0	GOOD
4	SCI_OL__2PWDPA20021210_065215_000031332012_00006_04068_2697.N1	10DEC2002 06:52:15	10DEC2002 07:44:28	0	GOOD

5	SCI_OL__2PWDP20021210_083251_000031332012_00007_04069_2698.N1	10DEC2002 08:32:51	10DEC2002 09:25:04	0	GOOD
6	SCI_OL__2PWDP20021210_100816_000030022012_00008_04070_2699.N1	10DEC2002 10:08:16	10DEC2002 10:58:18	0	GOOD
7	SCI_OL__2PWDP20021210_114852_000030022012_00009_04071_2700.N1	10DEC2002 11:48:52	10DEC2002 12:38:54	0	GOOD
8	SCI_OL__2PWDP20021210_132905_000030642012_00010_04072_2701.N1	10DEC2002 13:29:05	10DEC2002 14:20:10	0	GOOD
9	SCI_OL__2PWDP20021210_150941_000030642012_00011_04073_2702.N1	10DEC2002 15:09:41	10DEC2002 16:00:46	0	GOOD
10	SCI_OL__2PWDP20021210_165017_000030642012_00012_04074_2703.N1	10DEC2002 16:50:17	10DEC2002 17:41:22	0	GOOD
11	SCI_OL__2PWDP20021210_183053_000030642012_00013_04075_2704.N1	10DEC2002 18:30:53	10DEC2002 19:21:58	0	GOOD
12	SCI_OL__2PWDP20021210_201129_000030642012_00014_04076_2705.N1	10DEC2002 20:11:29	10DEC2002 21:02:34	0	GOOD
13	SCI_OL__2PWDP20021210_215205_000030642012_00015_04077_2706.N1	10DEC2002 21:52:05	10DEC2002 22:43:10	0	GOOD
14	SCI_OL__2PWDP20021210_233241_000030642012_00016_04078_2707.N1	10DEC2002 23:32:41	11DEC2002 00:23:46	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: 84240

Total number of cloud data DSRs with good quality flag (=0): 84240 (100.0 %)

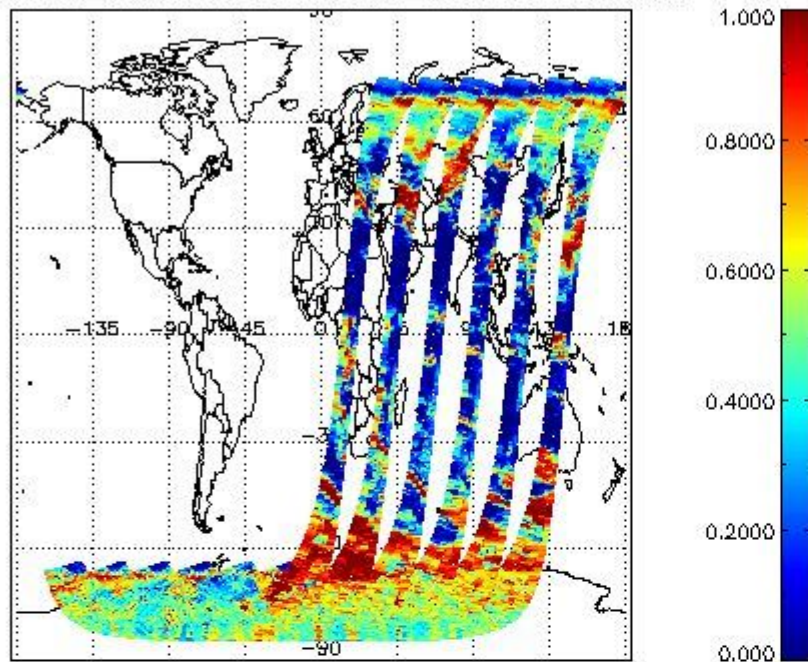
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	84240	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	84240	0.21225	0.25000	0.12500	0.50000	0.080615	s
CL_FRAC	84240	0.41895	0.41309	0.0000	1.0000	0.31348	
CL_FRAC_ERR	84240	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	84240	6.7920	8.0000	4.0000	16.000	2.5797	
PMD_READ_CL[0]	84240	0.69642	0.0000	0.0000	16.000	1.8705	-
PMD_READ_CL[1]	84240	1.4734	0.0000	0.0000	16.000	2.7387	-
CL_TOP_HEIGHT	75801	3.5516	2.7859	0.0000	17.000	3.3403	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	75801	50.375	36.851	0.0000	101.00	40.114	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	84240	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	84240	11001001	11000100	11000000	11100000	3226.7	
AERO_ABSO_IND	84240	0.21065	0.0000	0.0000	18.251	0.48601	
AERO_IND_DIAG	84240	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	84240	01101110	11000000	00000000	11000000	24294.	

Time and geolocation plots:

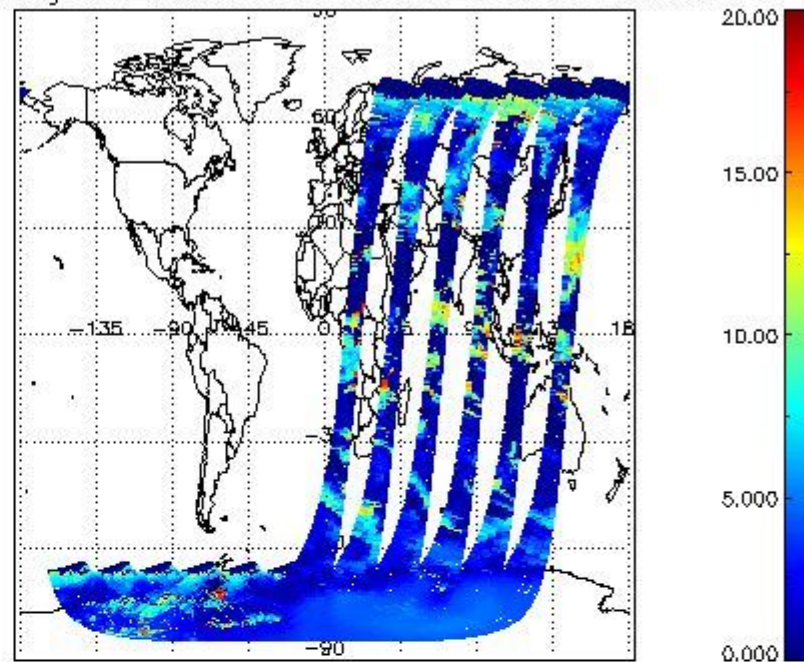
Plots are available for the following parameters:

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

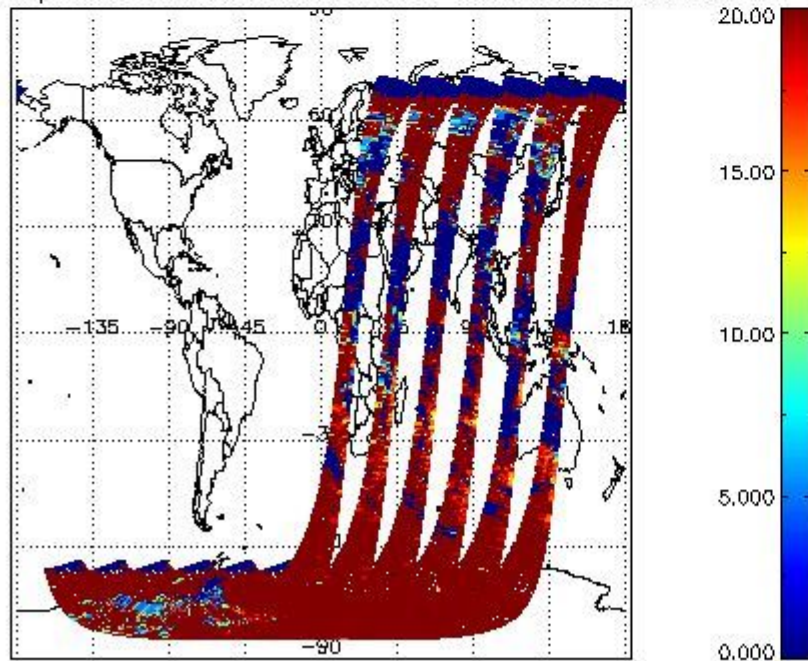
cL_frac for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



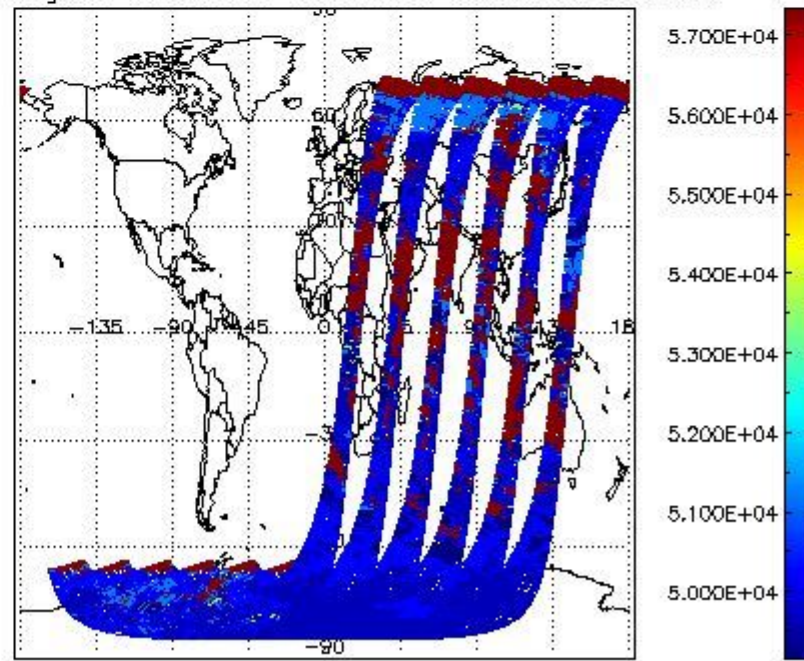
cL_top_height for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



cL_opt_depth for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



cloud_flags for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



2.2.2 Nadir

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

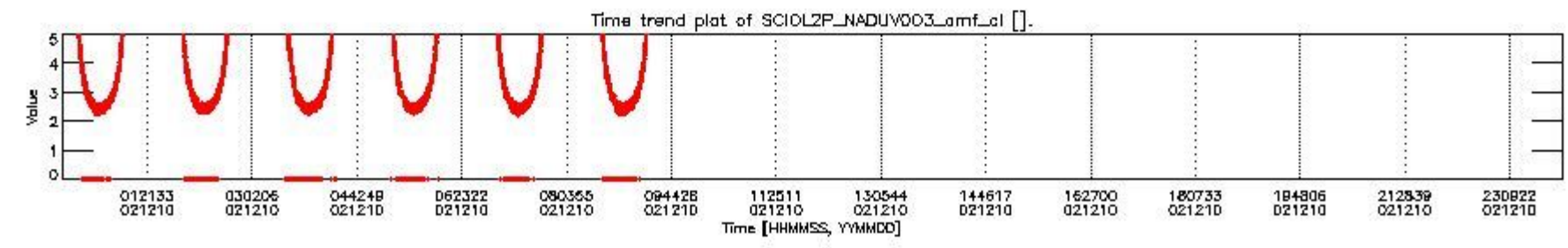
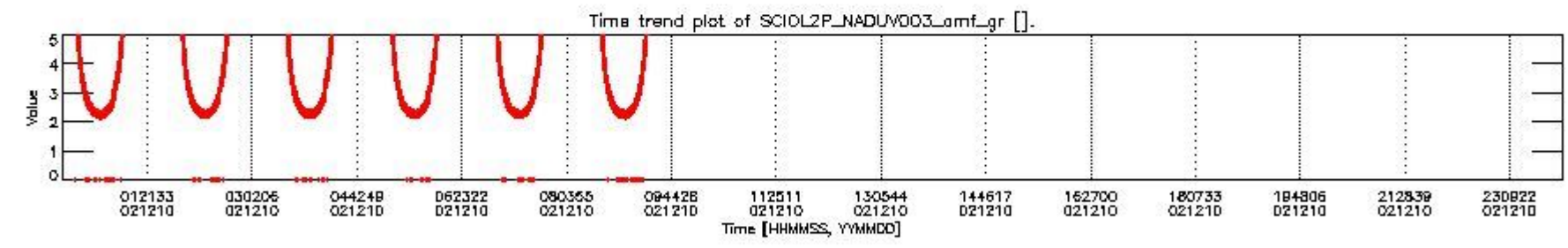
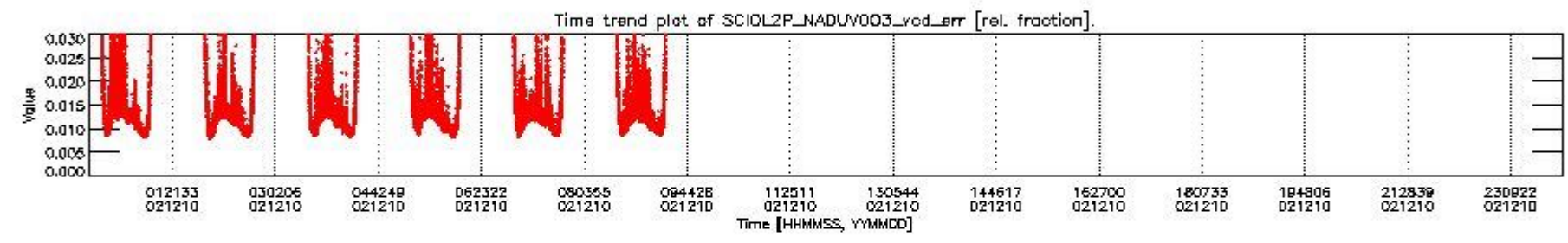
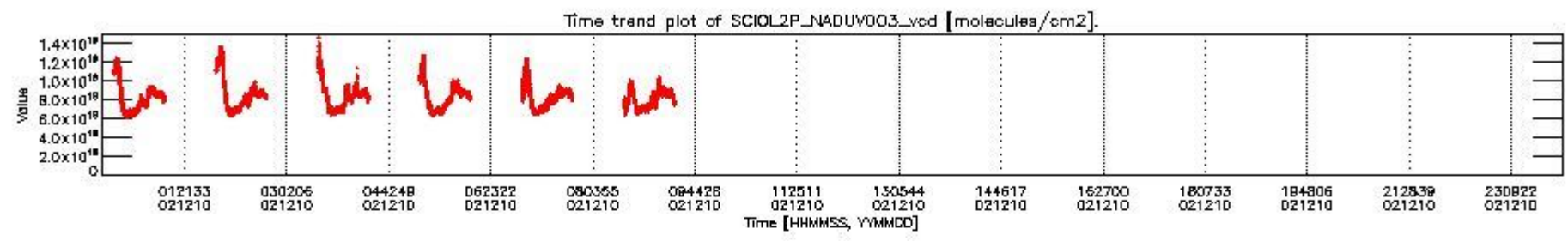
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

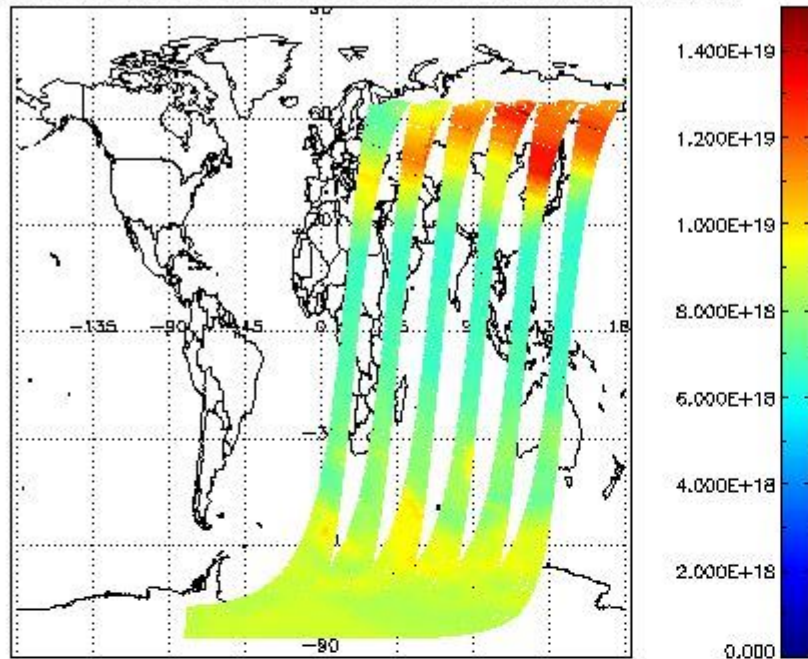
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

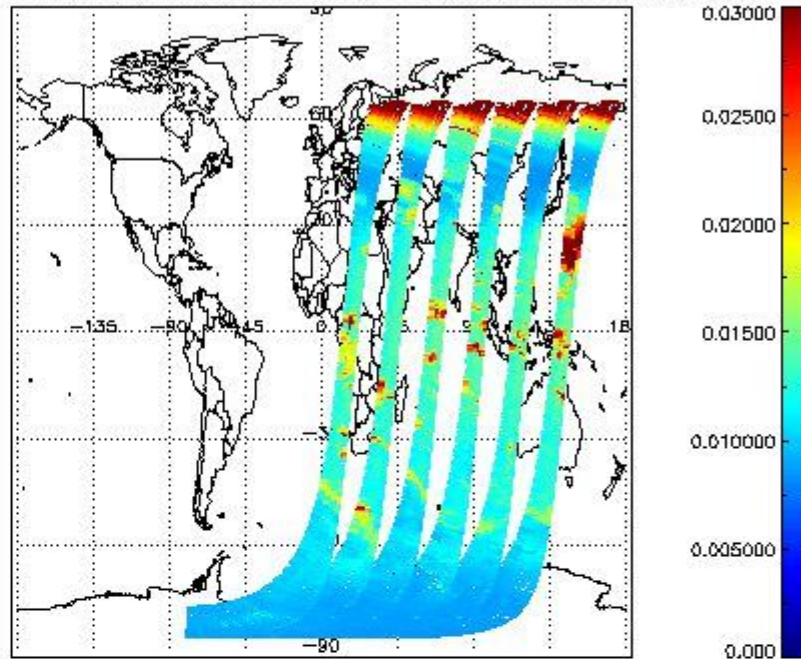
2.2.2.1 O3 (UV0)



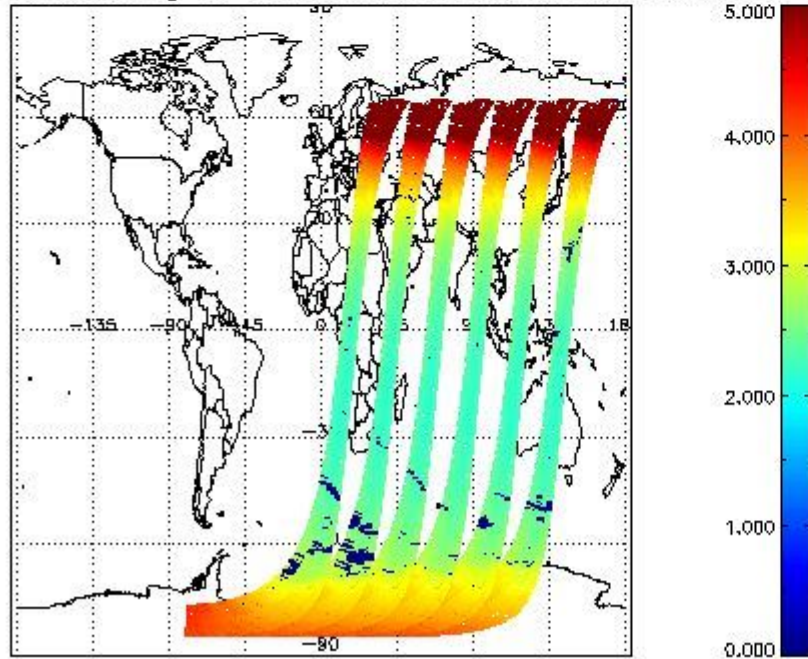
SCIOL2P_NADUV003_vcd for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



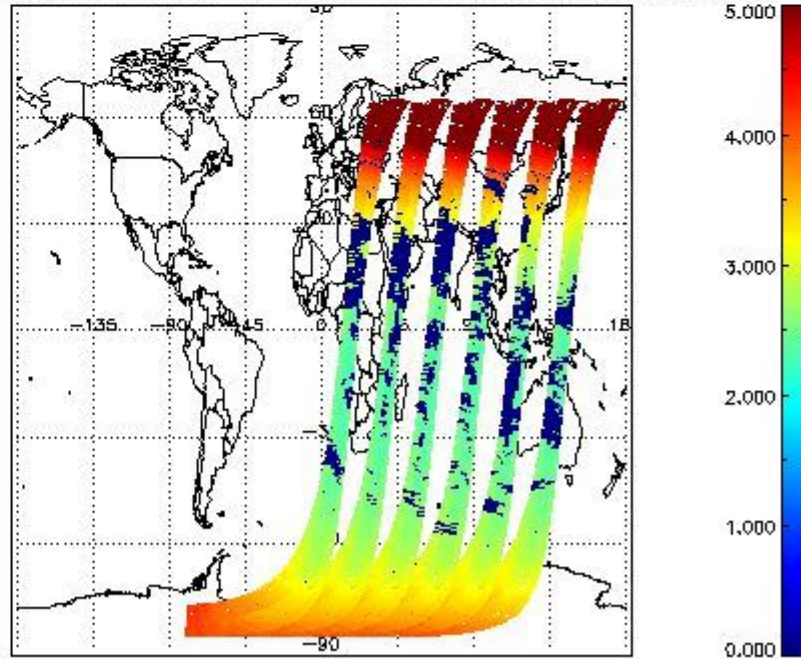
SCIOL2P_NADUV003_vcd_err for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



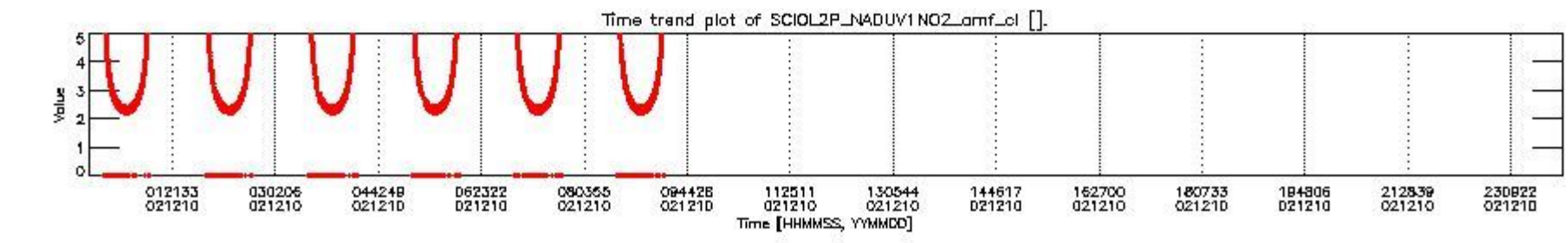
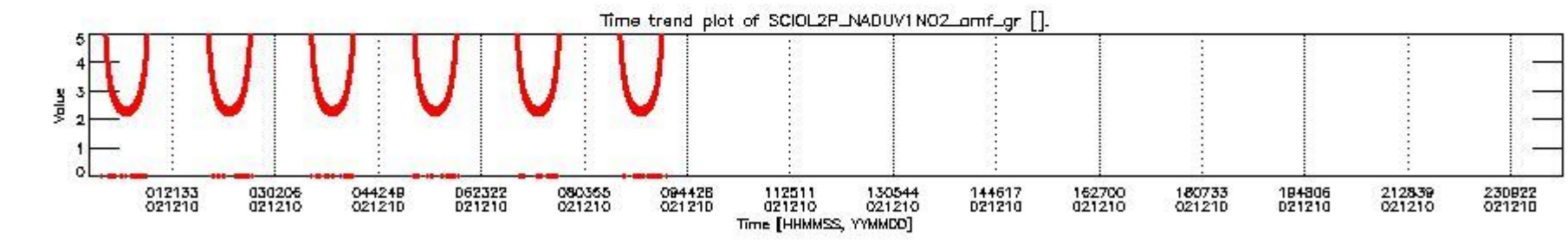
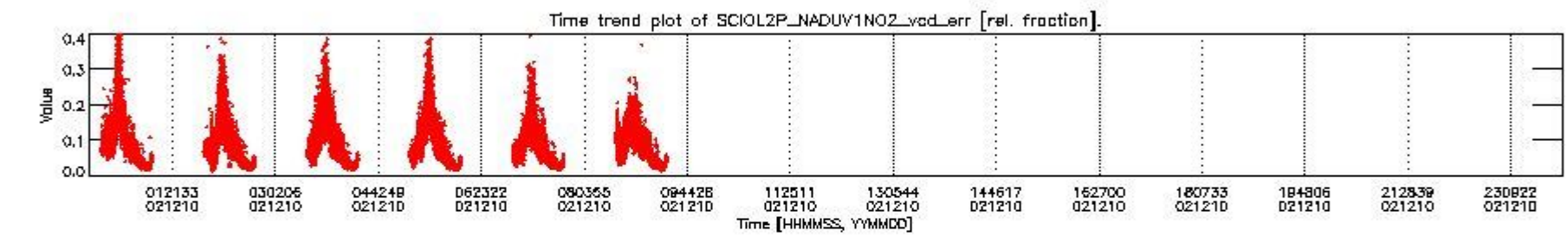
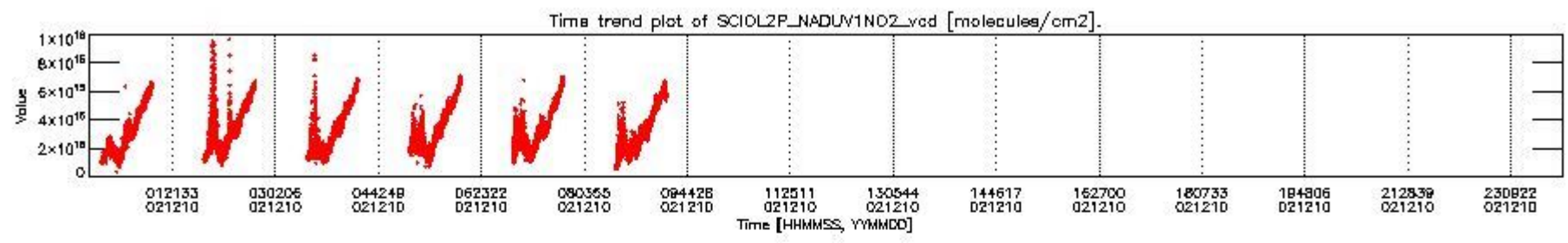
SCIOL2P_NADUV003_amf_gr for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



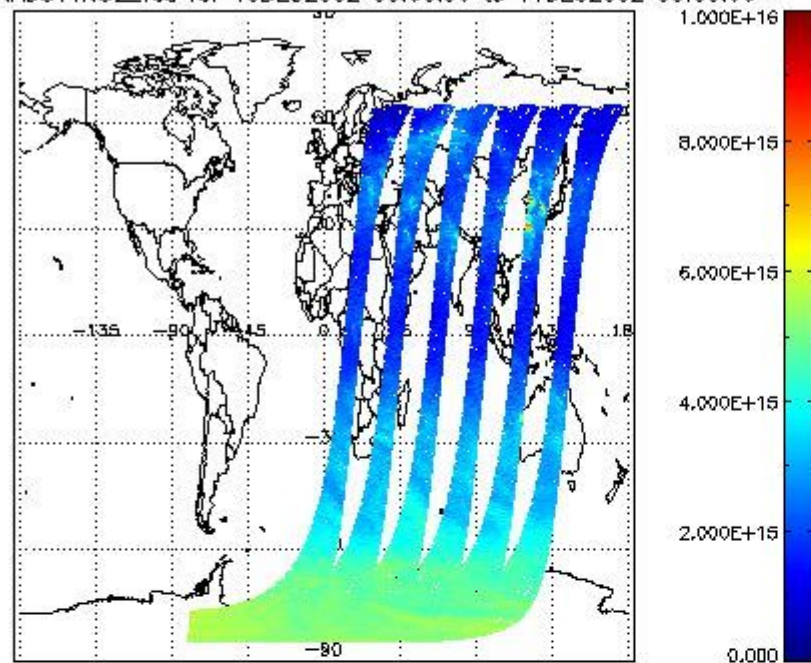
SCIOL2P_NADUV003_amf_cl for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



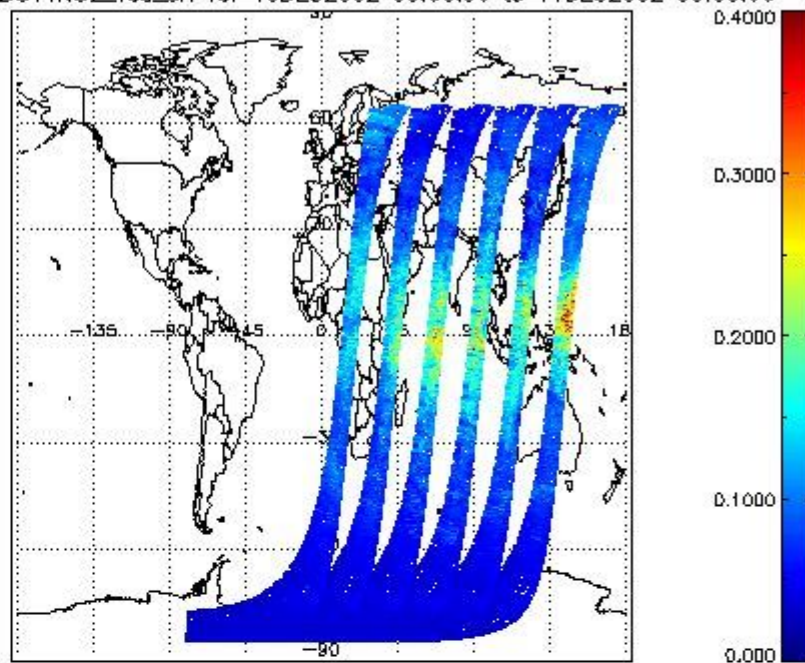
2.2.2.2 NO2 (UV1)



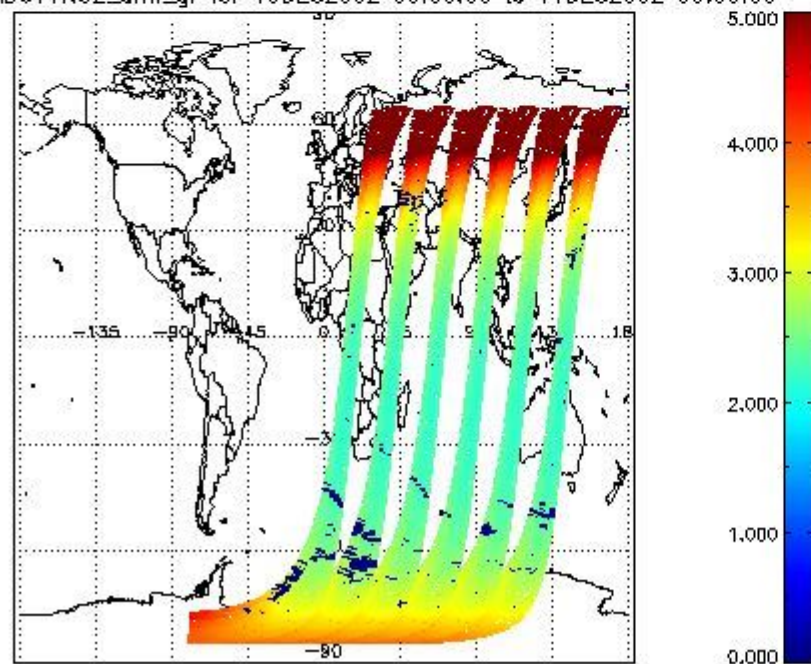
SCIOL2P_NADUV1N02_vcd for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



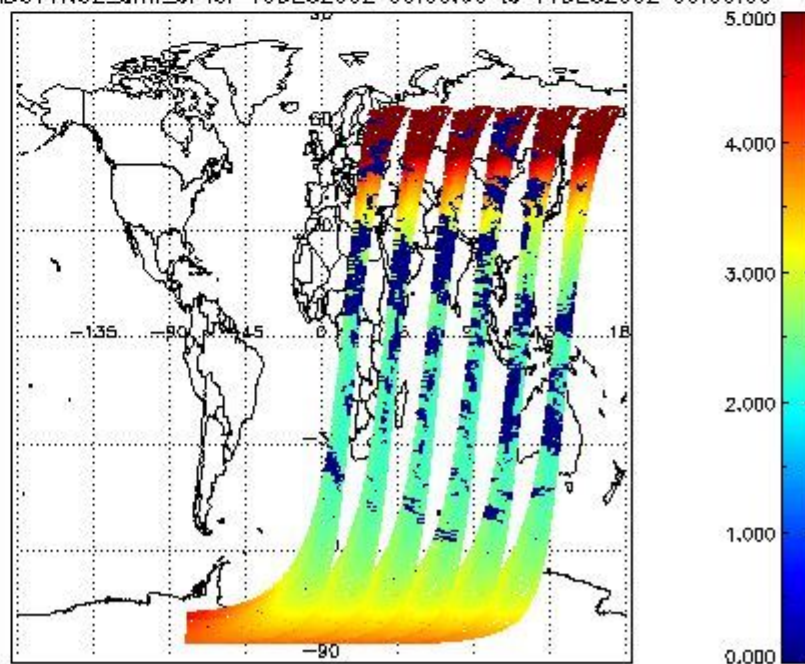
SCIOL2P_NADUV1N02_vcd_err for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



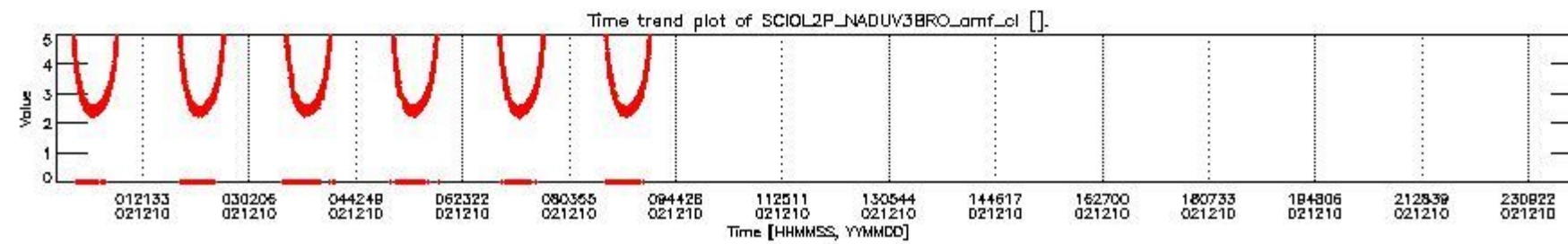
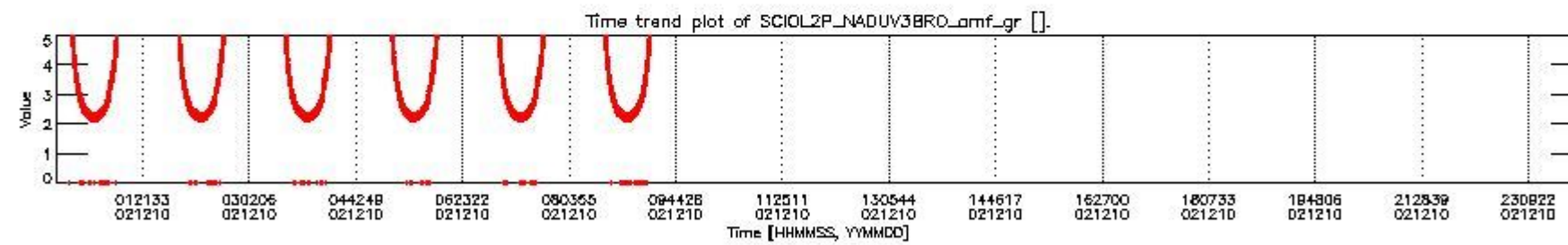
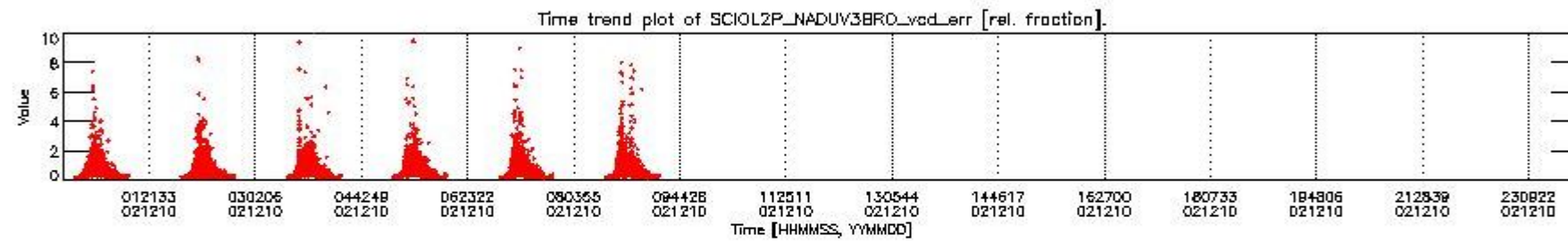
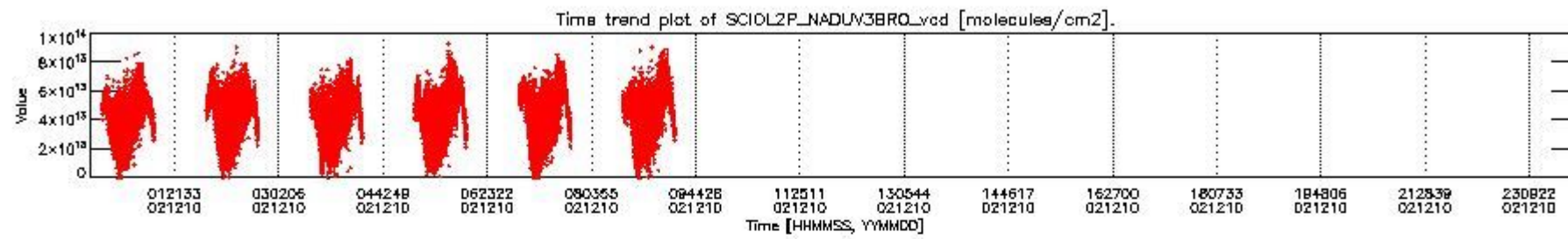
SCIOL2P_NADUV1N02_amf_gr for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



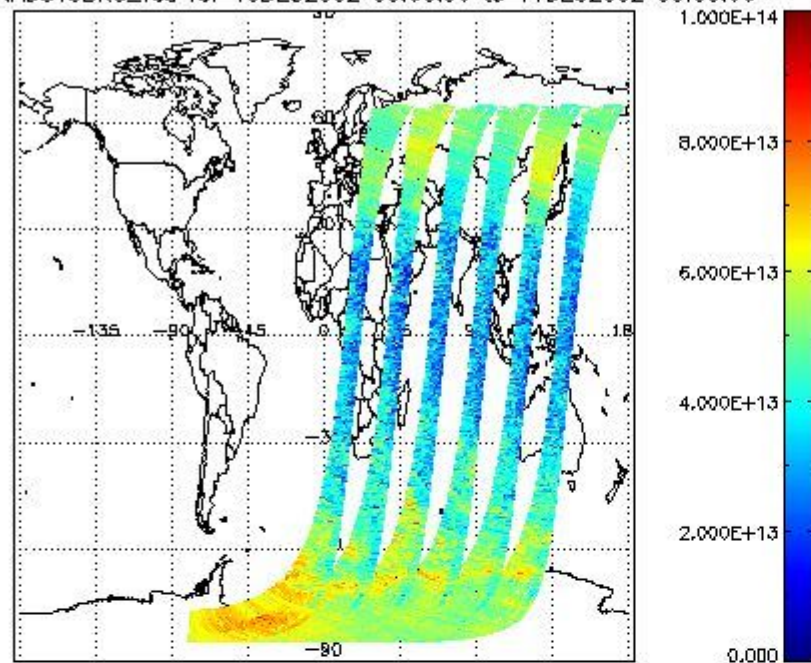
SCIOL2P_NADUV1N02_amf_cl for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



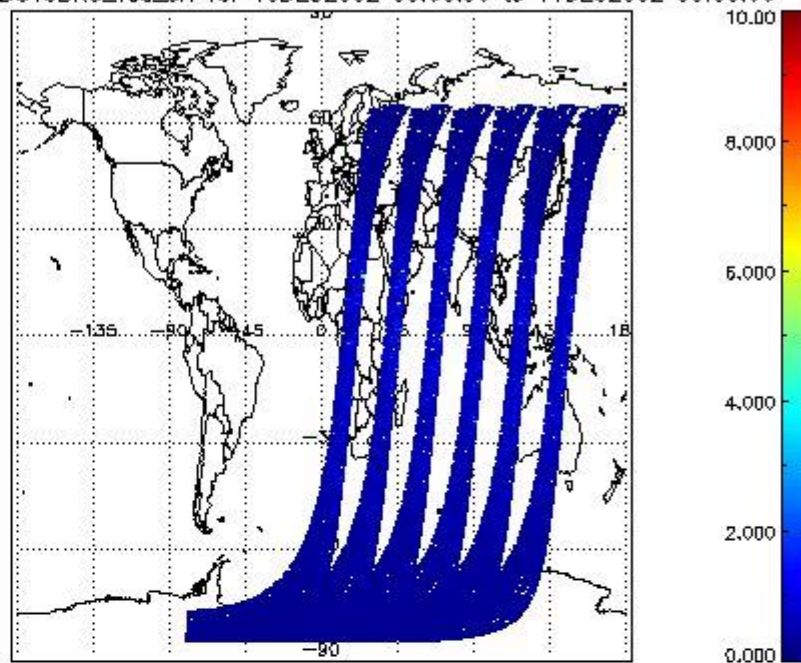
2.2.2.3 BrO (UV3)



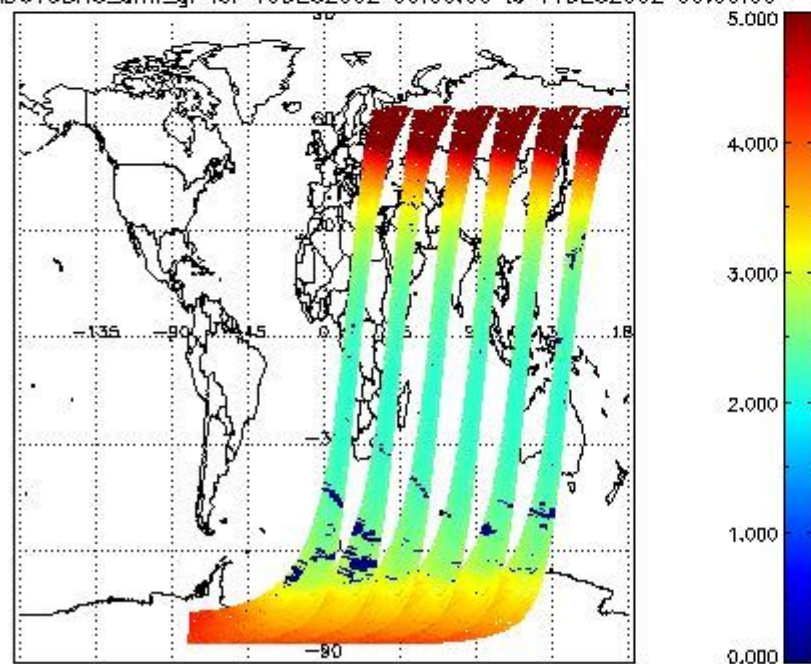
SCIOL2P_NADUV3BRO_vcd for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



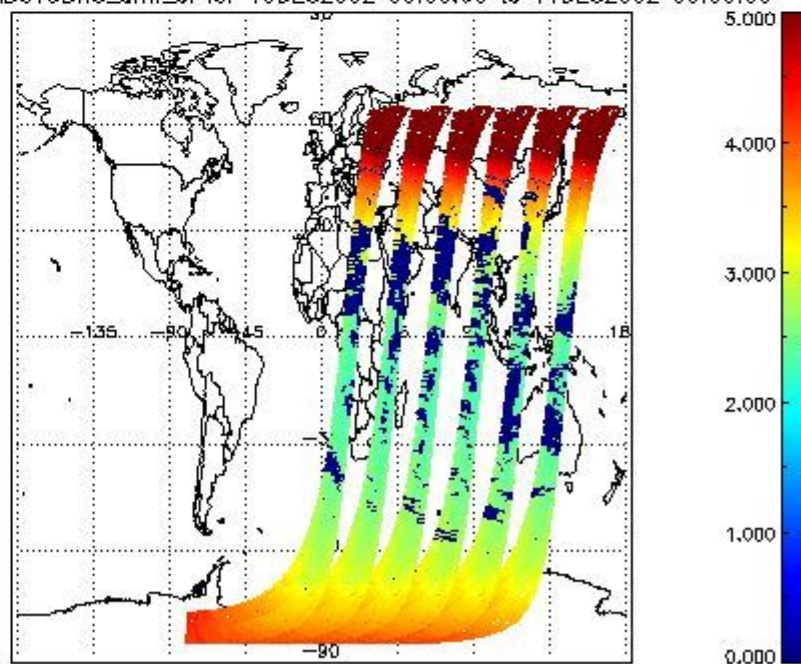
SCIOL2P_NADUV3BRO_vcd_err for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



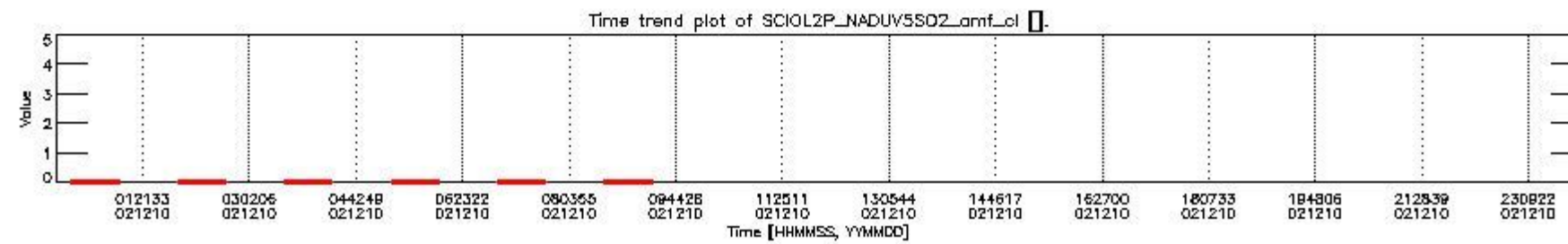
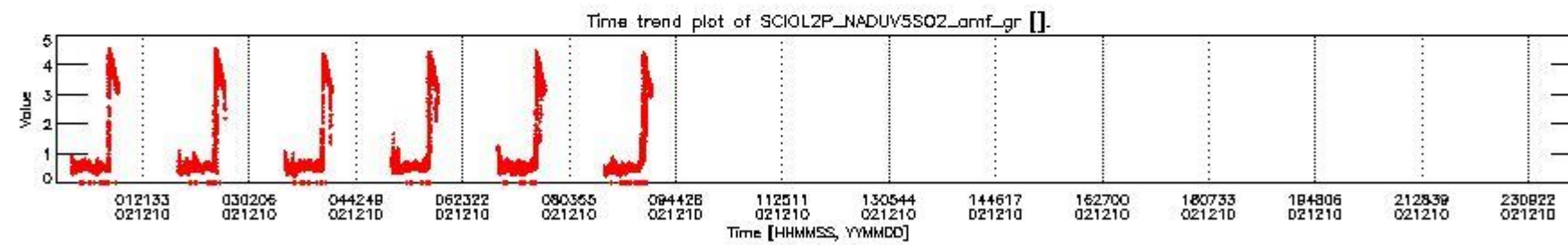
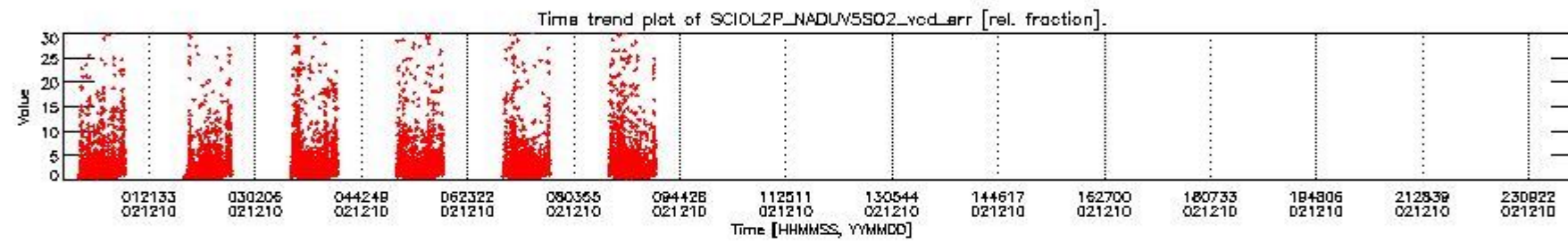
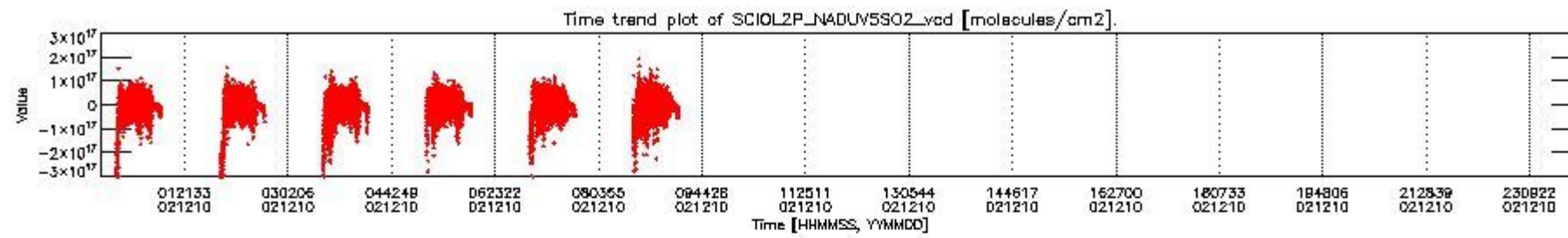
SCIOL2P_NADUV3BRO_amf_gr for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



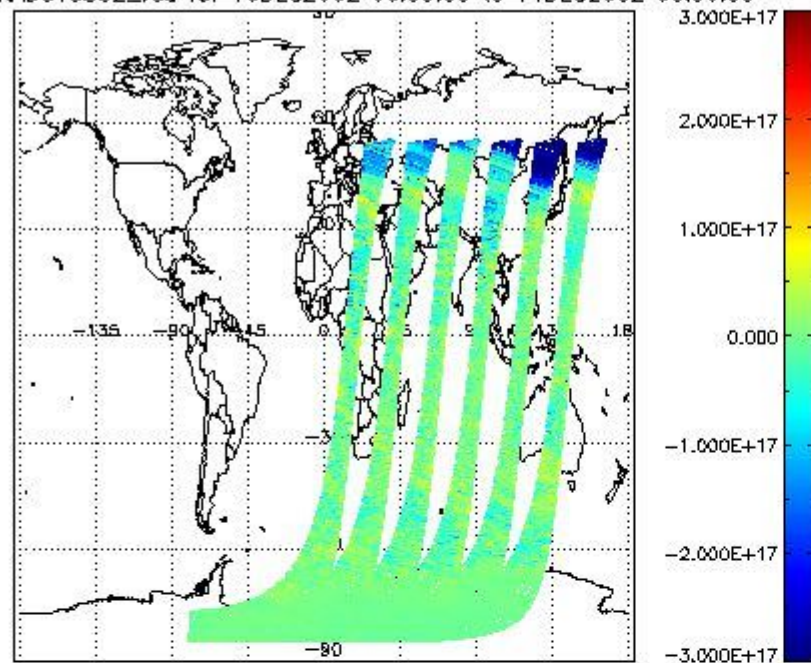
SCIOL2P_NADUV3BRO_amf_cl for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



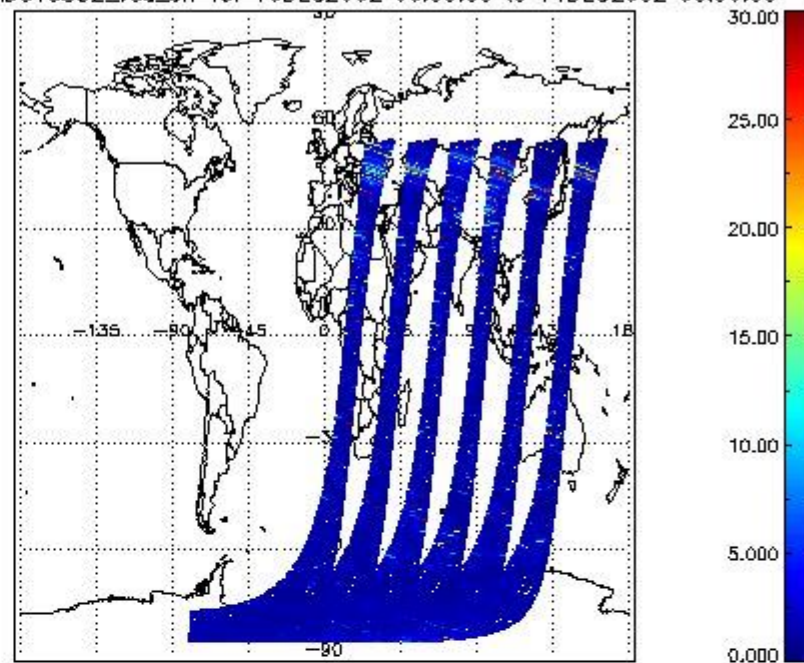
2.2.2.4 SO2 (UV5)



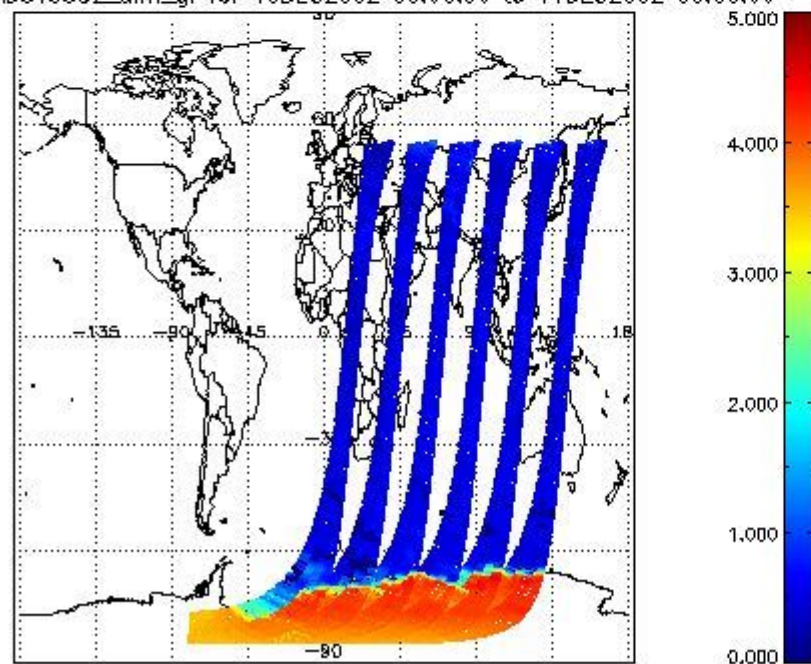
SCIOL2P_NADUV5S02_vcd for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



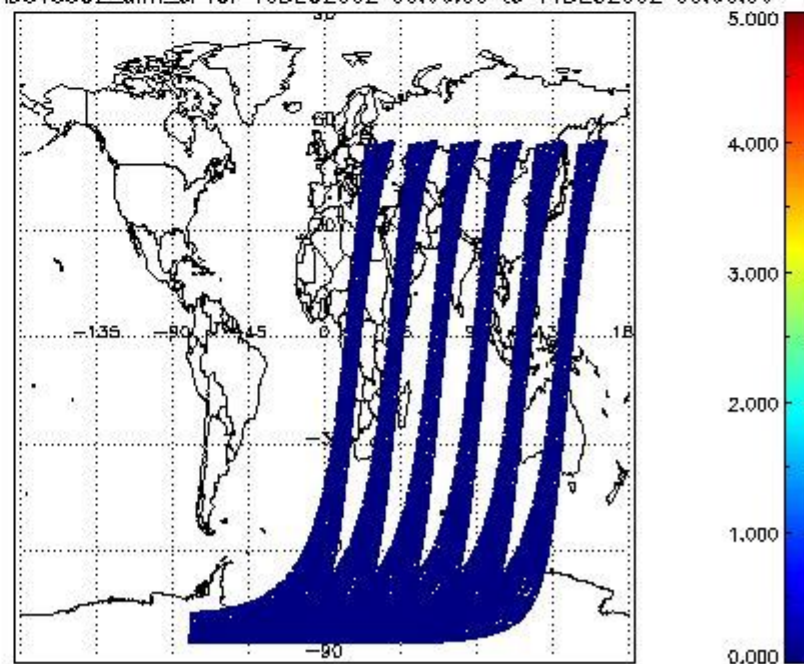
SCIOL2P_NADUV5S02_vcd_err for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



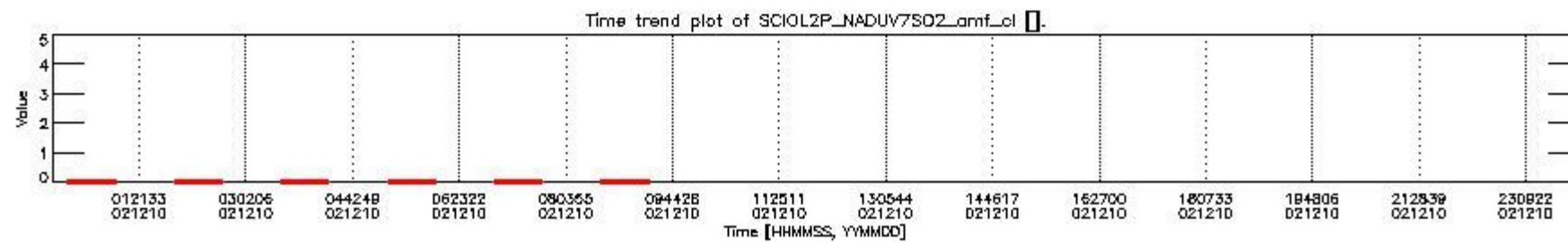
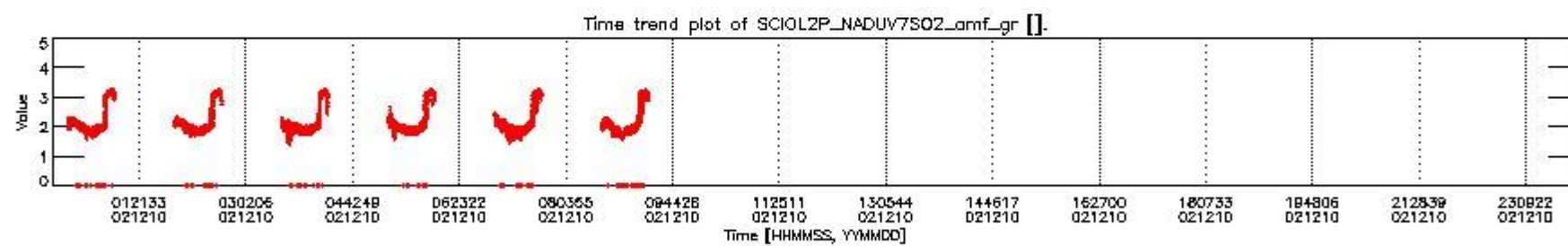
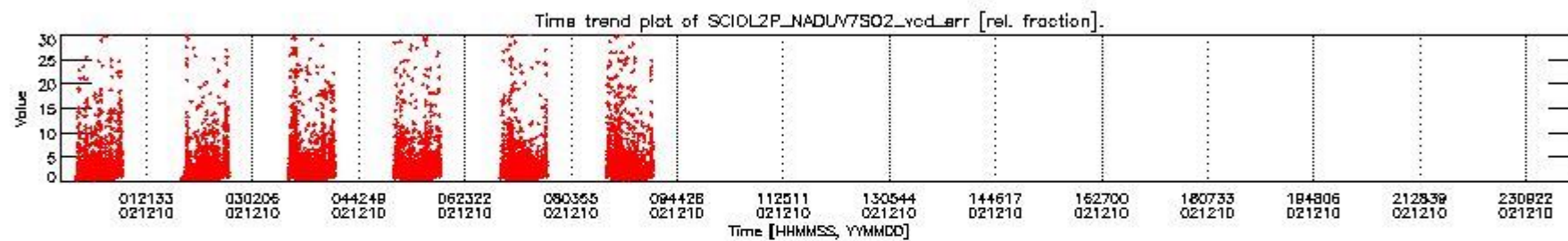
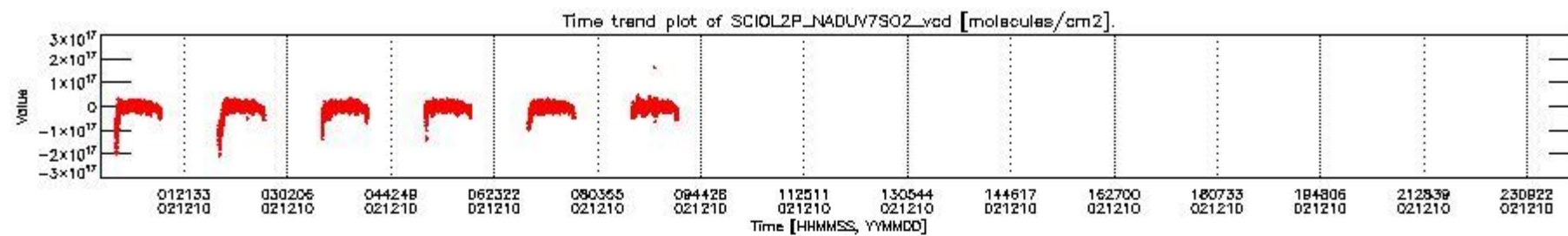
SCIOL2P_NADUV5S02_amf_gr for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



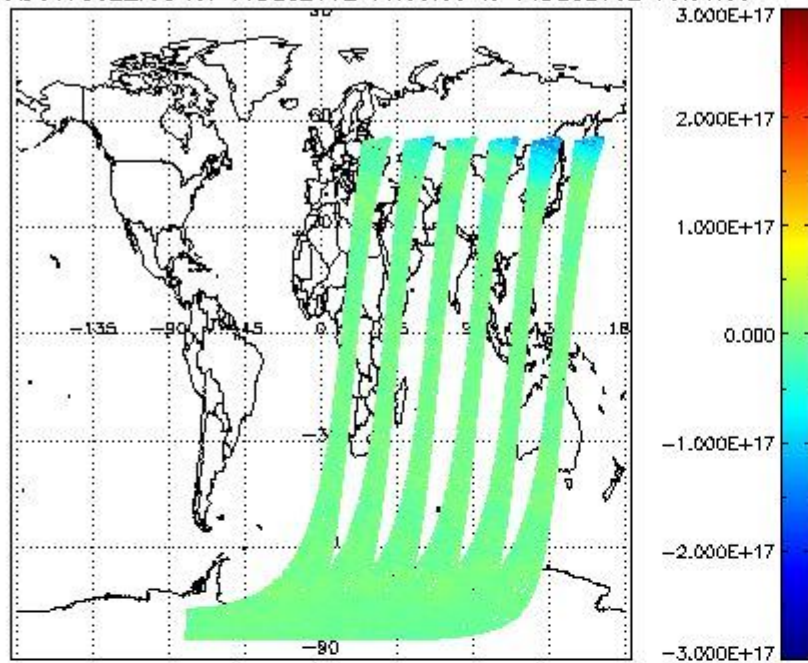
SCIOL2P_NADUV5S02_amf_cl for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



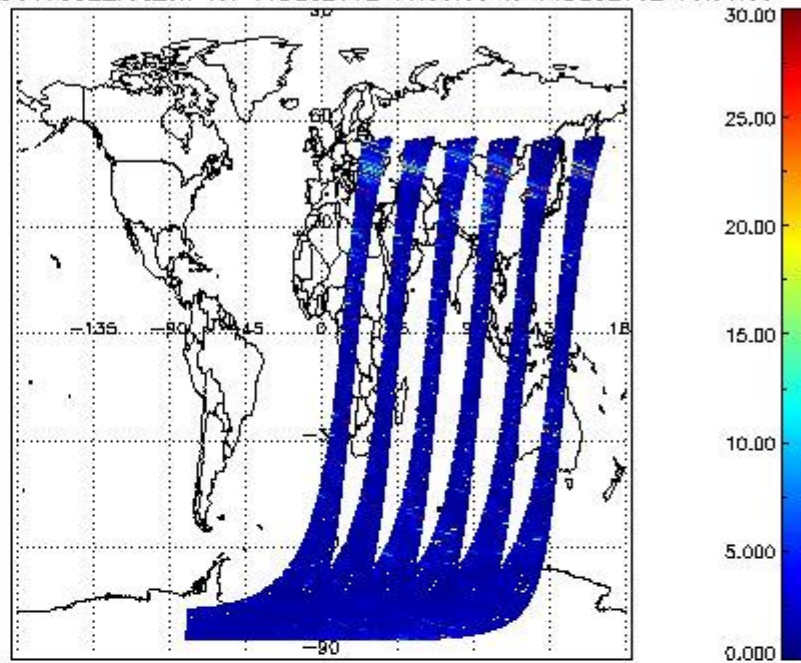
2.2.2.5 SO2 (UV7)



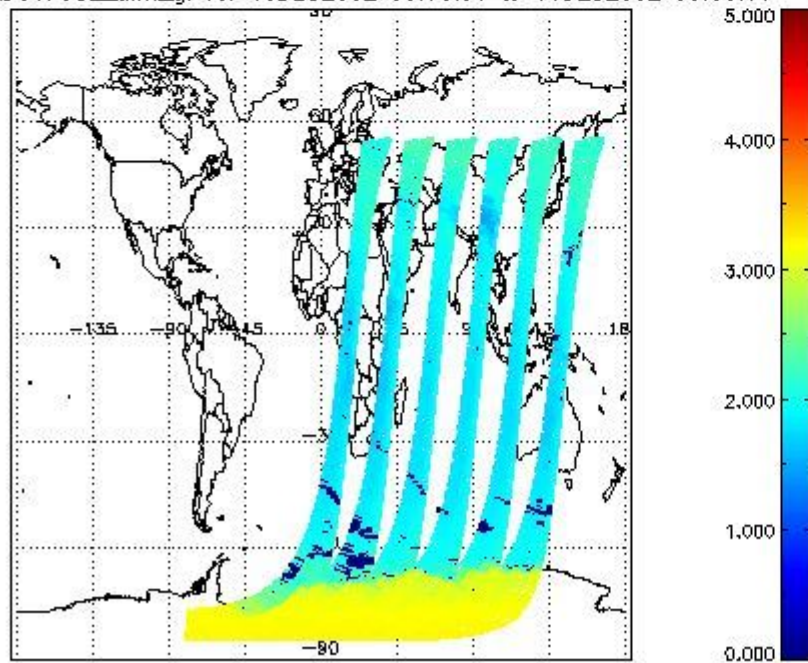
SCIOL2P_NADUV7S02_vcd for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



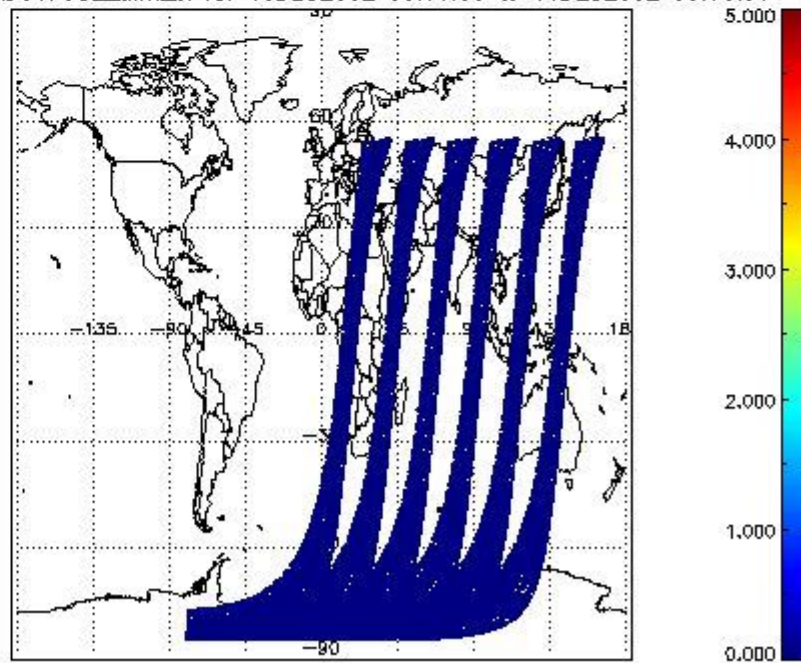
SCIOL2P_NADUV7S02_vcd_err for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



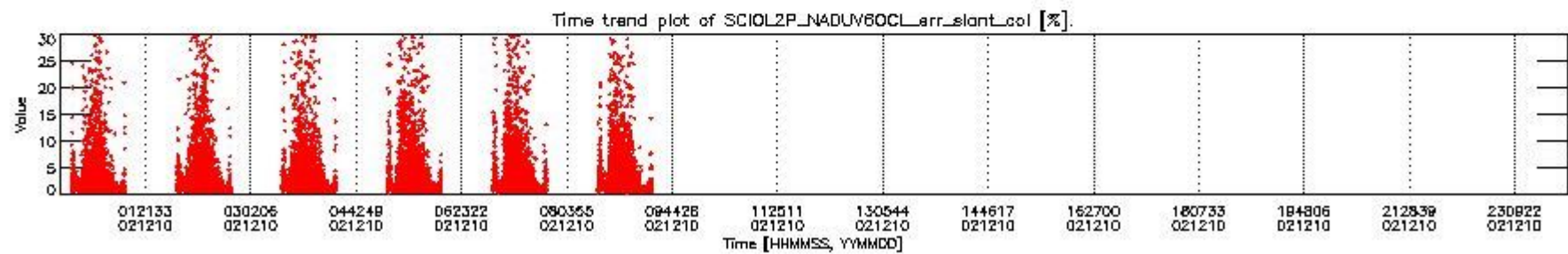
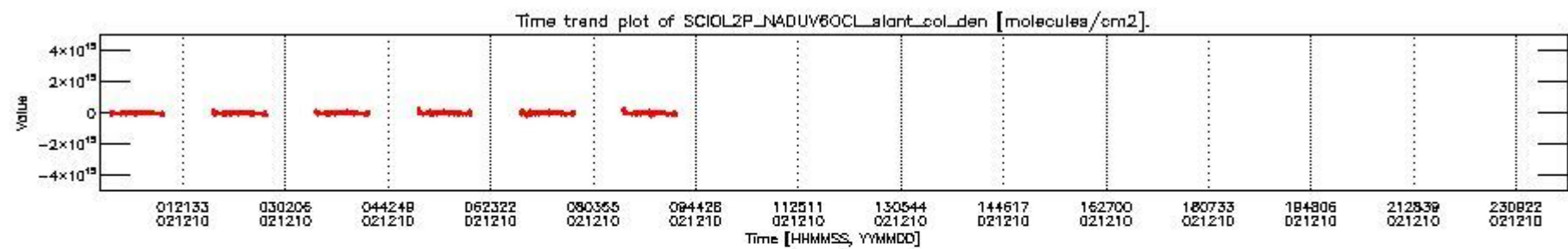
SCIOL2P_NADUV7S02_amf_gr for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



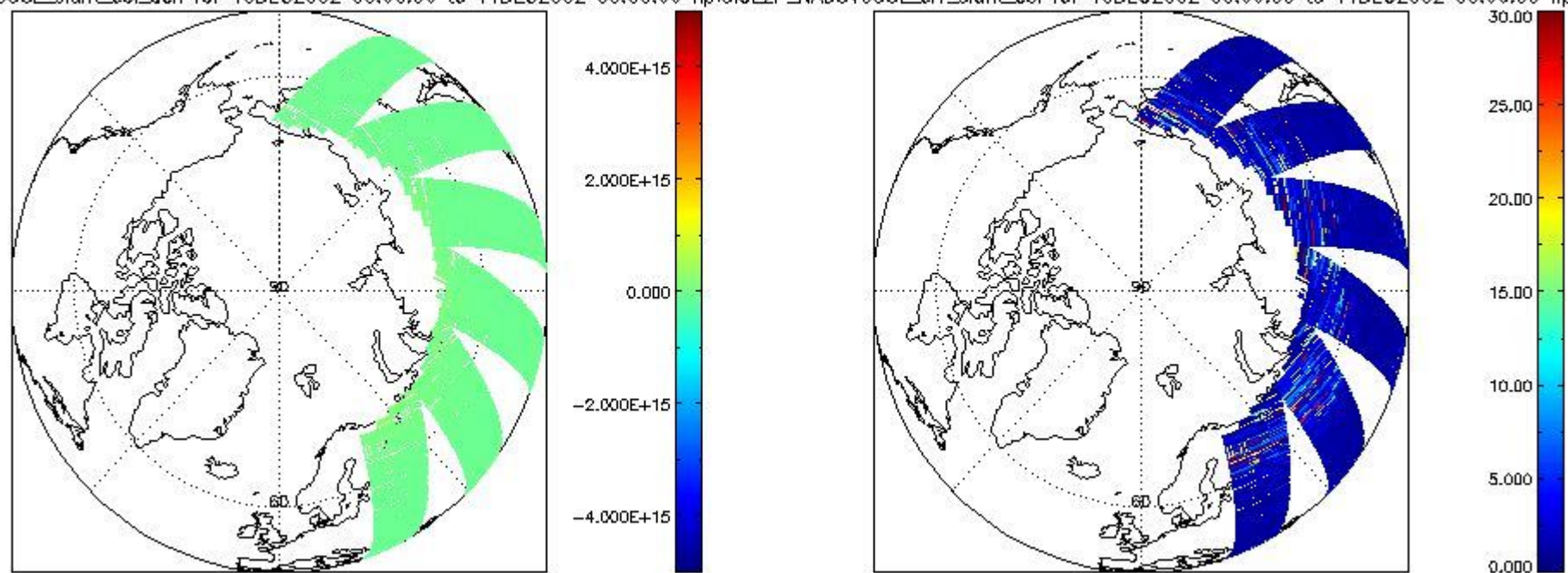
SCIOL2P_NADUV7S02_amf_cl for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



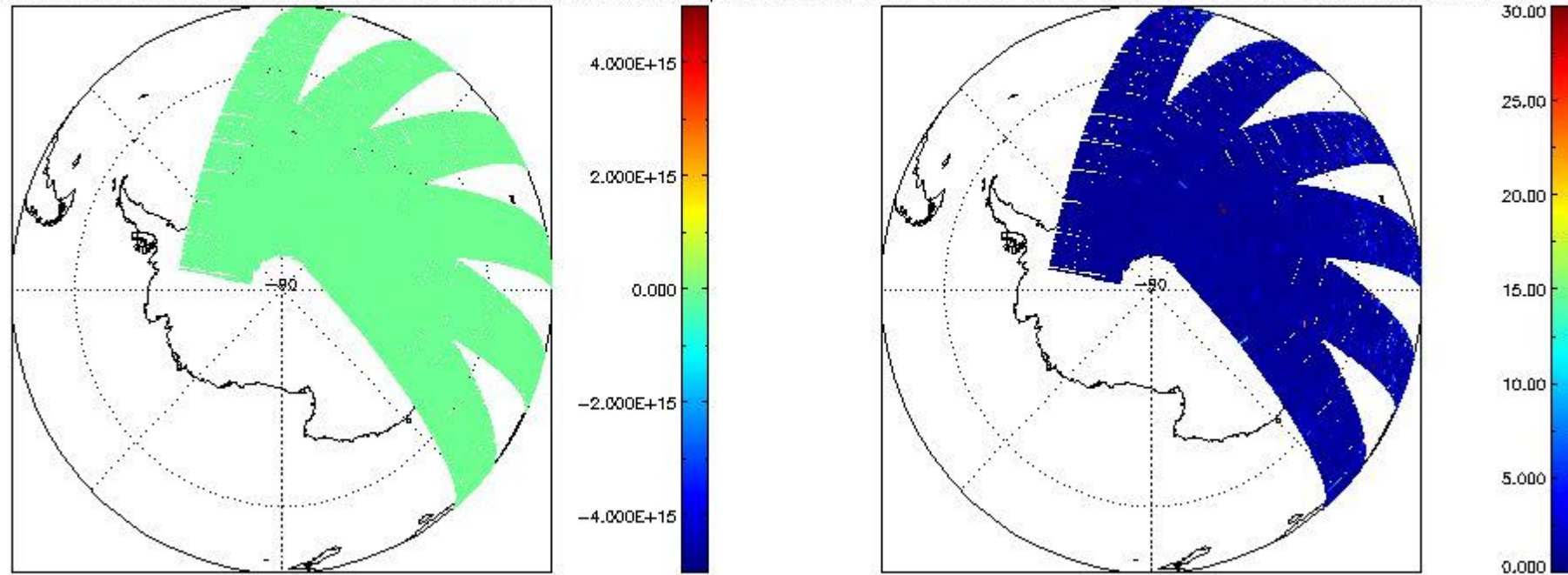
2.2.2.6 OCIO (UV6)



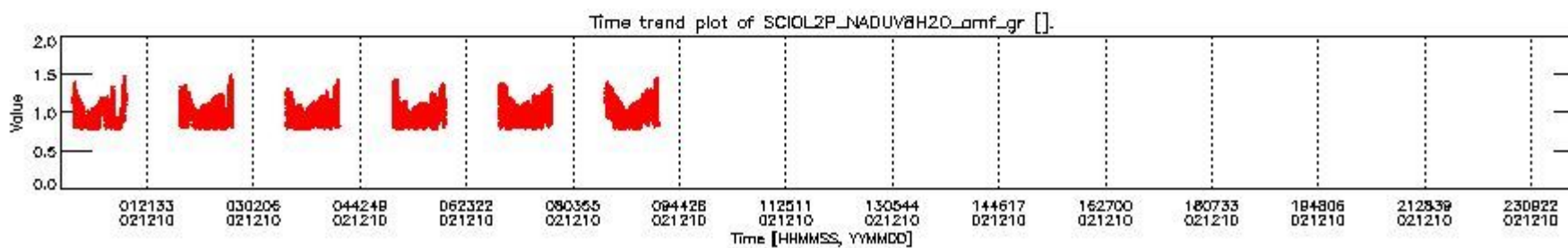
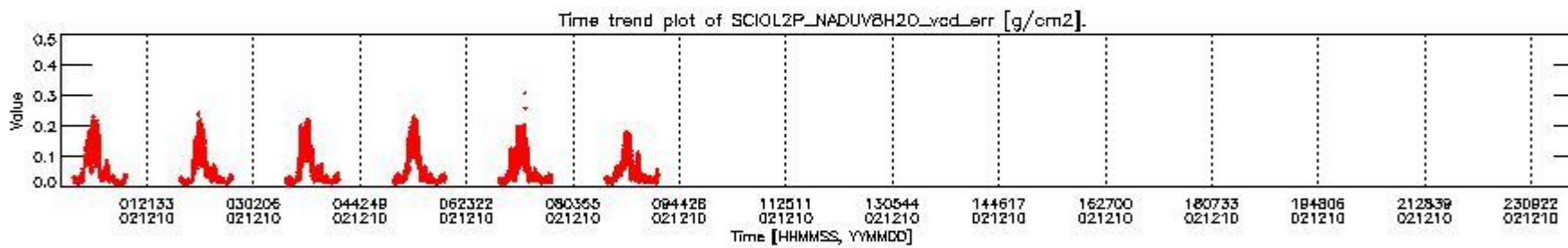
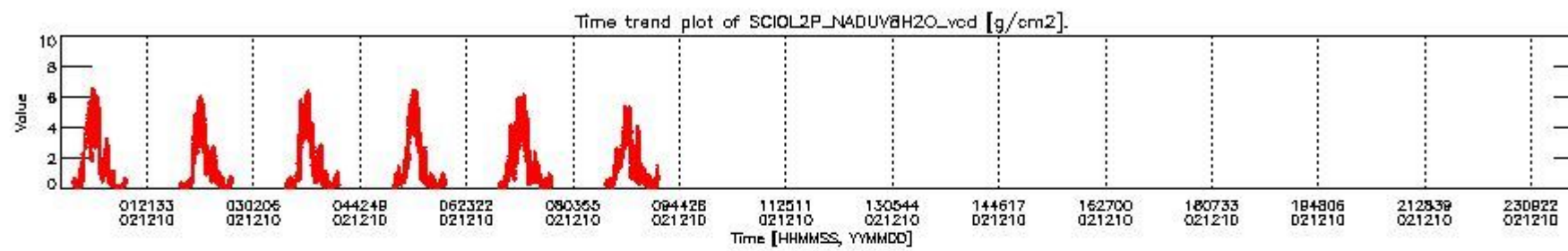
CIOL2P_NADUV60CL_slant_col_den for 10DEC2002 00:00:00 to 11DEC2002 00:00:00 np; CIOL2P_NADUV60CL_err_slant_col for 10DEC2002 00:00:00 to 11DEC2002 00:00:00 np



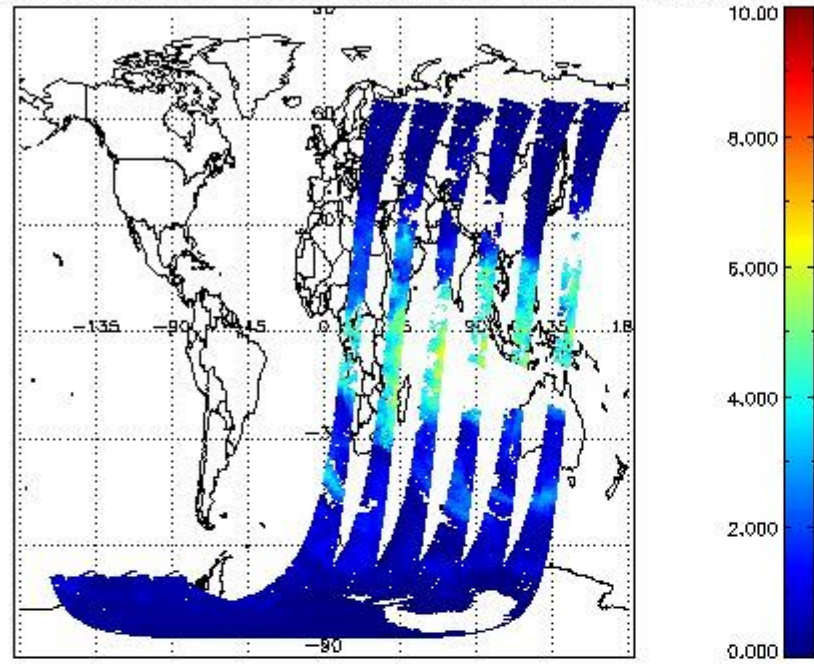
CIOL2P_NADUV60CL_slant_col_den for 10DEC2002 00:00:00 to 11DEC2002 00:00:00 spICIOL2P_NADUV60CL_err_slant_col for 10DEC2002 00:00:00 to 11DEC2002 00:00:00 sp



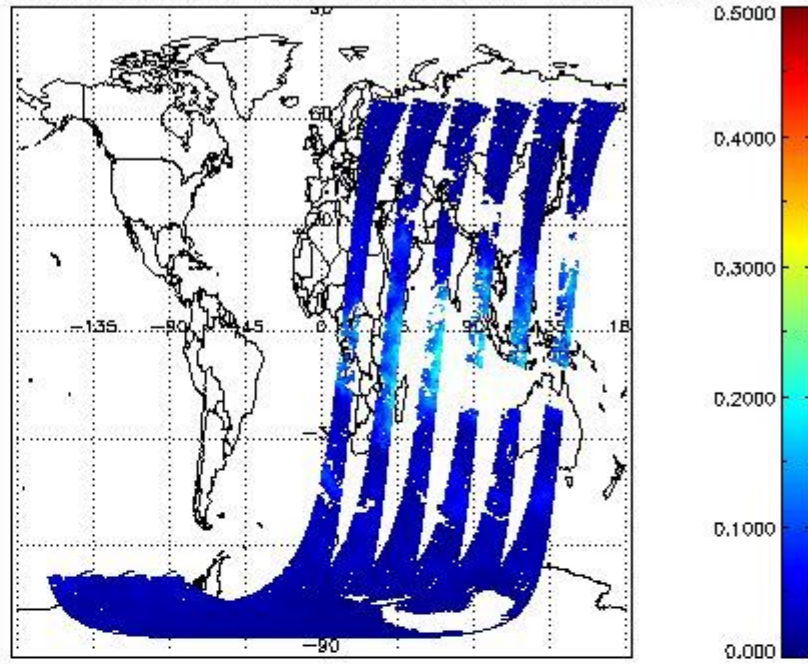
2.2.2.7 H2O (UV8)



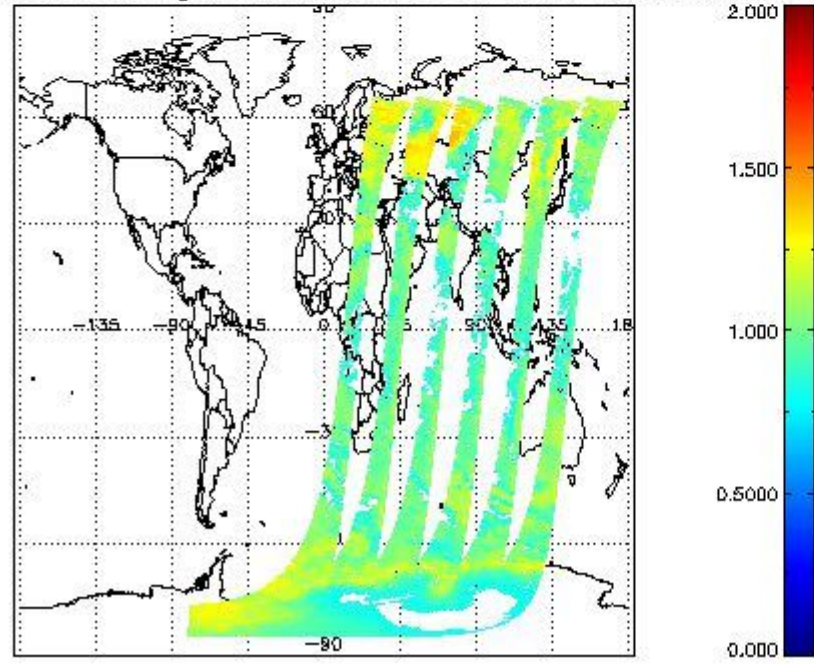
SCIOL2P_NADUV8H2O_vcd for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



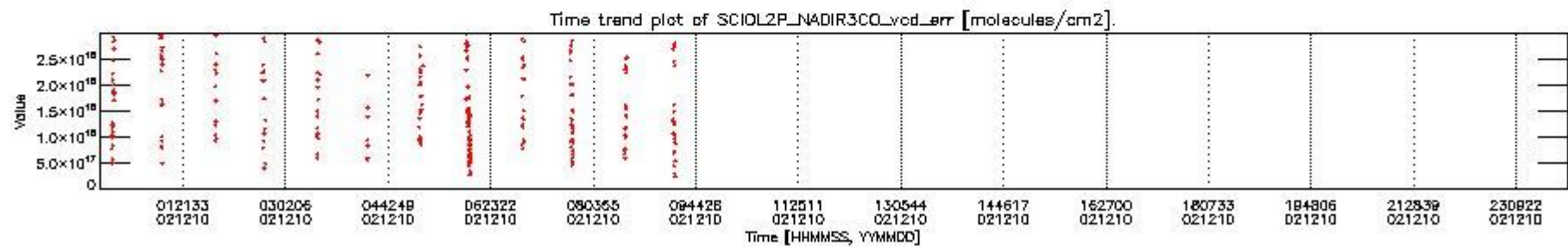
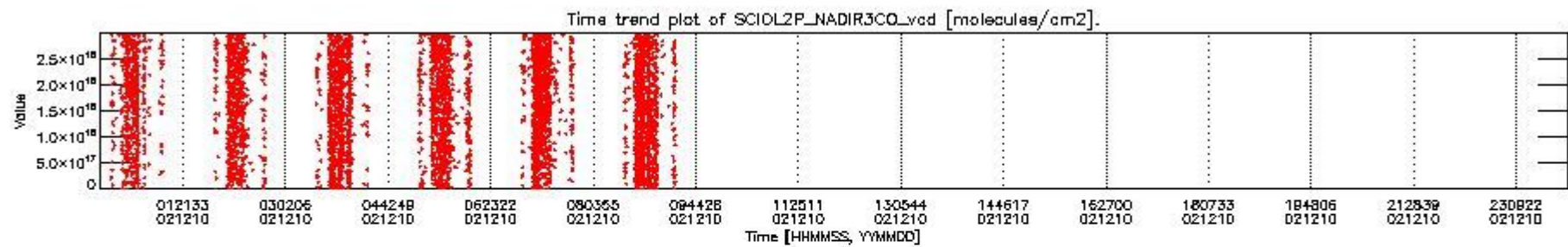
SCIOL2P_NADUV8H2O_vcd_err for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



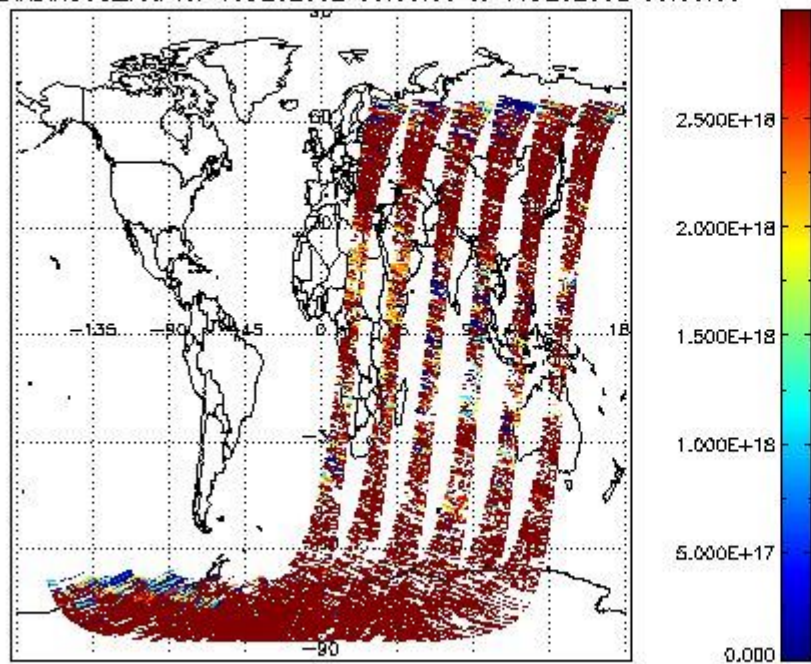
SCIOL2P_NADUV8H2O_amf_gr for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



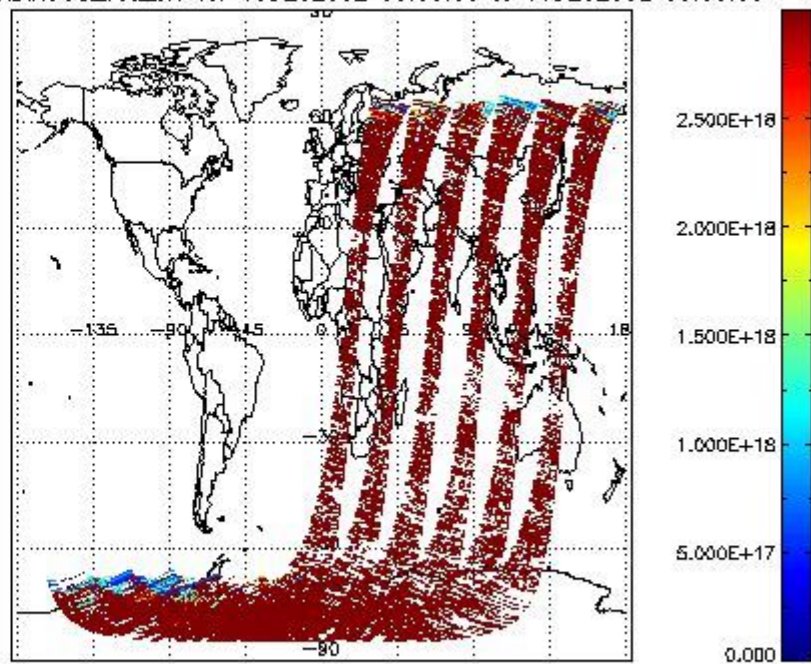
2.2.2.8 CO (IR3)



SCIDL2P_NADIR3CO_vcd for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



SCIDL2P_NADIR3CO_vcd_err for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



2.2.3 Limb

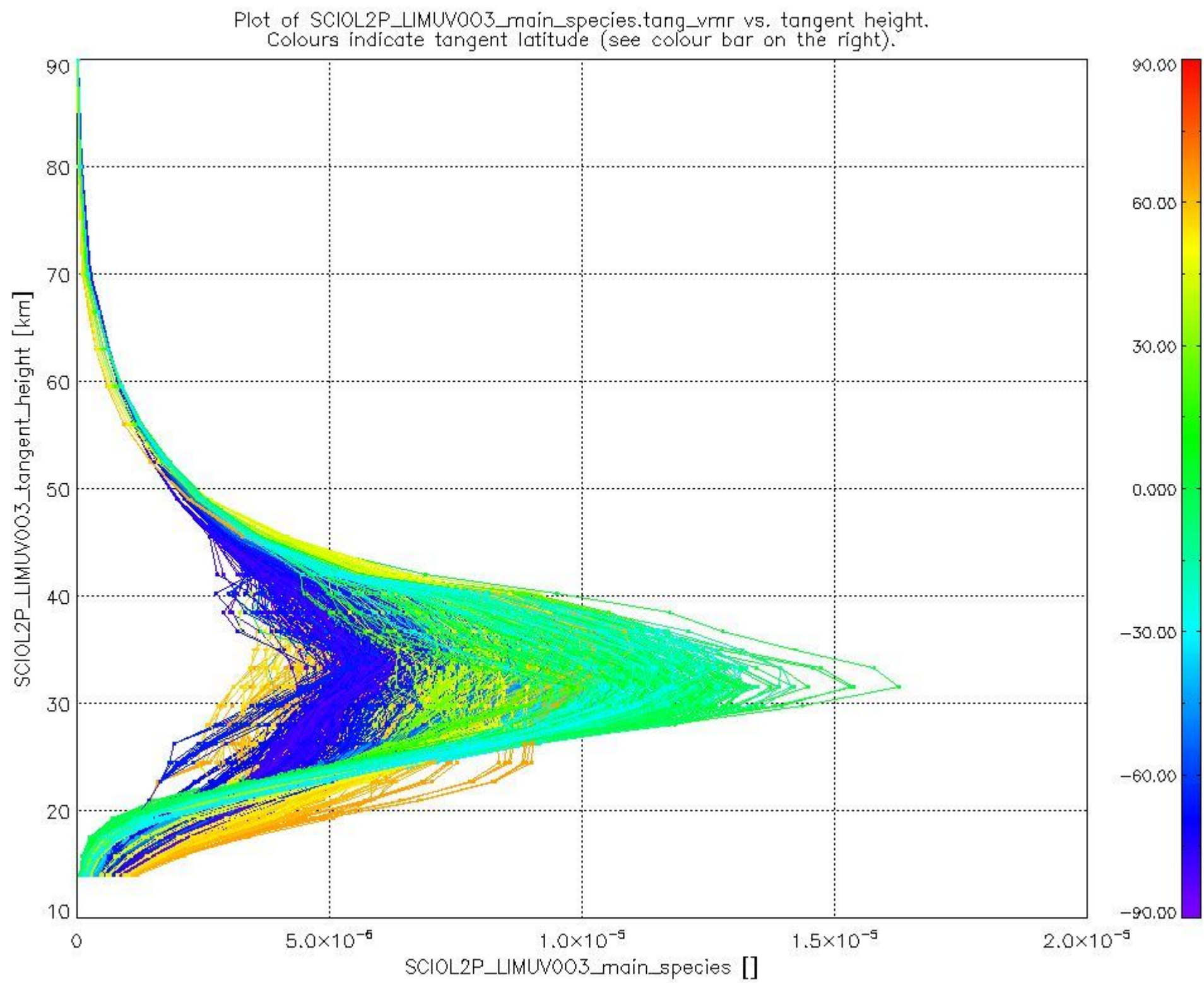
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

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

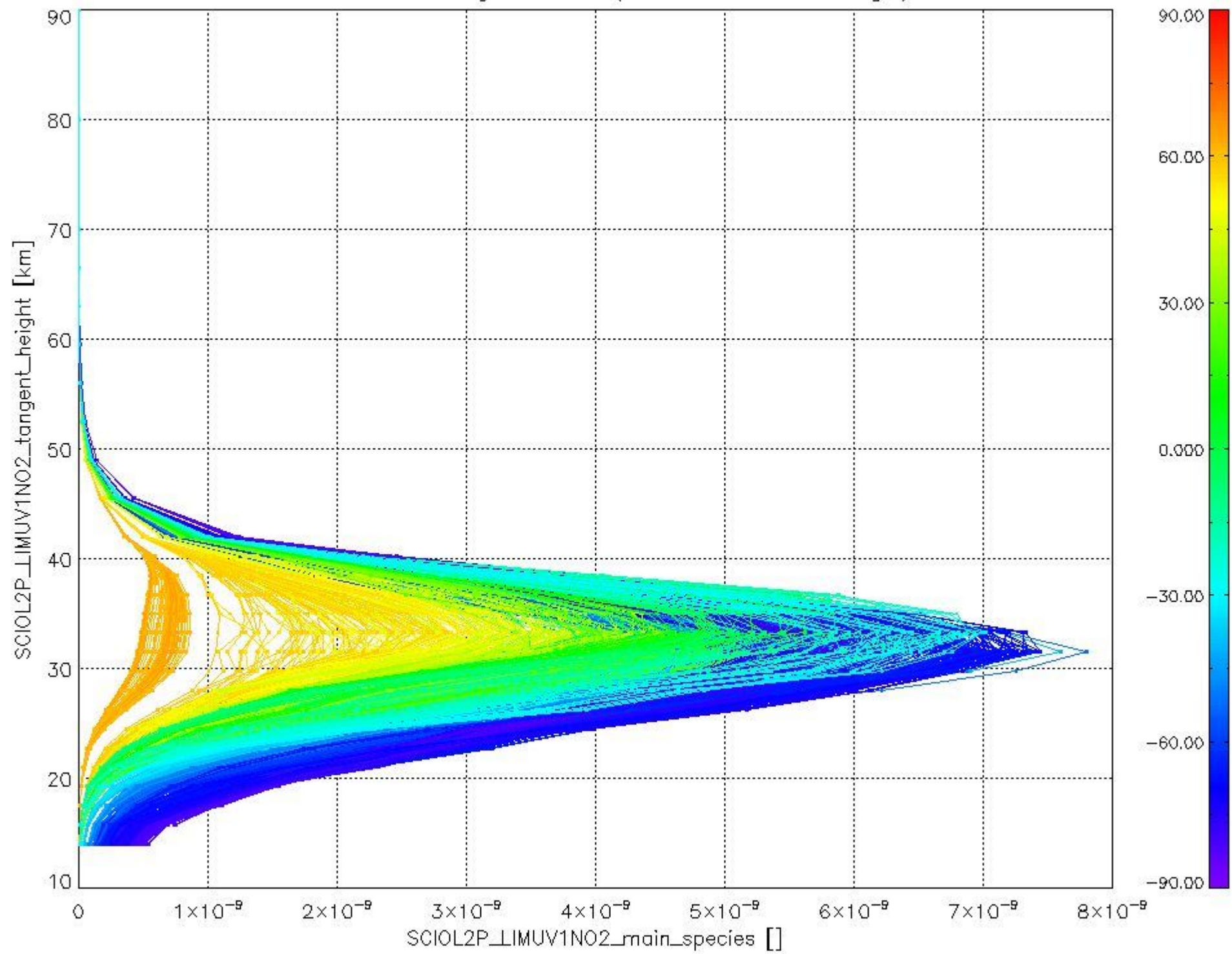
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



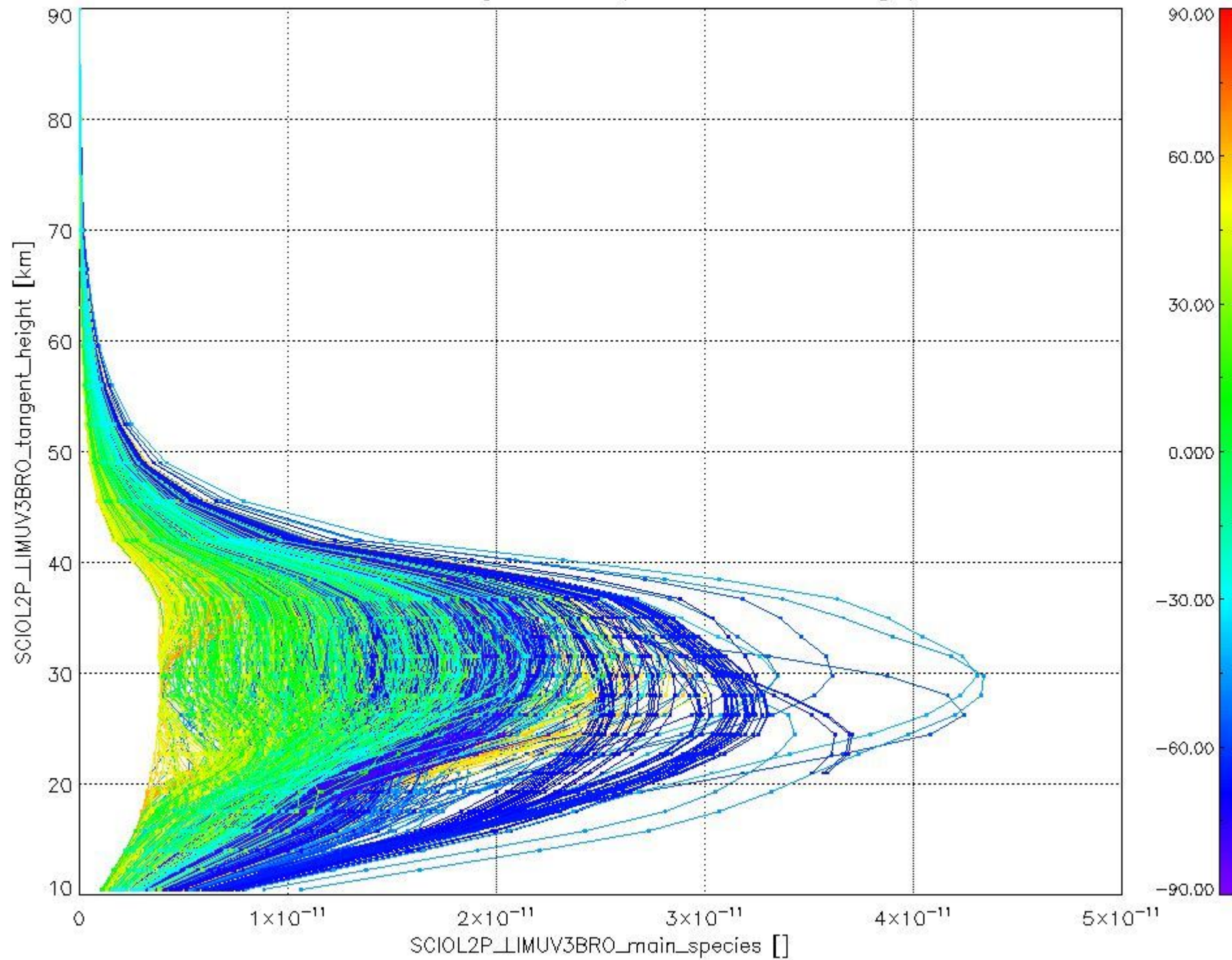
2.2.3.2 NO2 (UV1)

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)

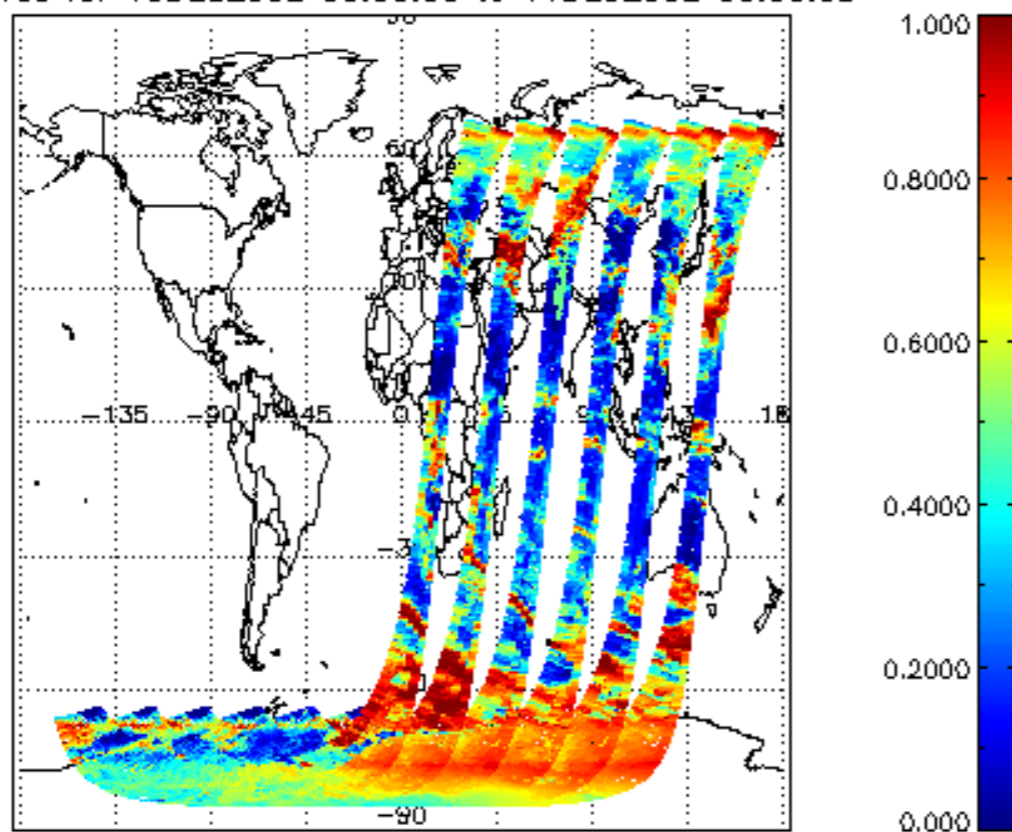
Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



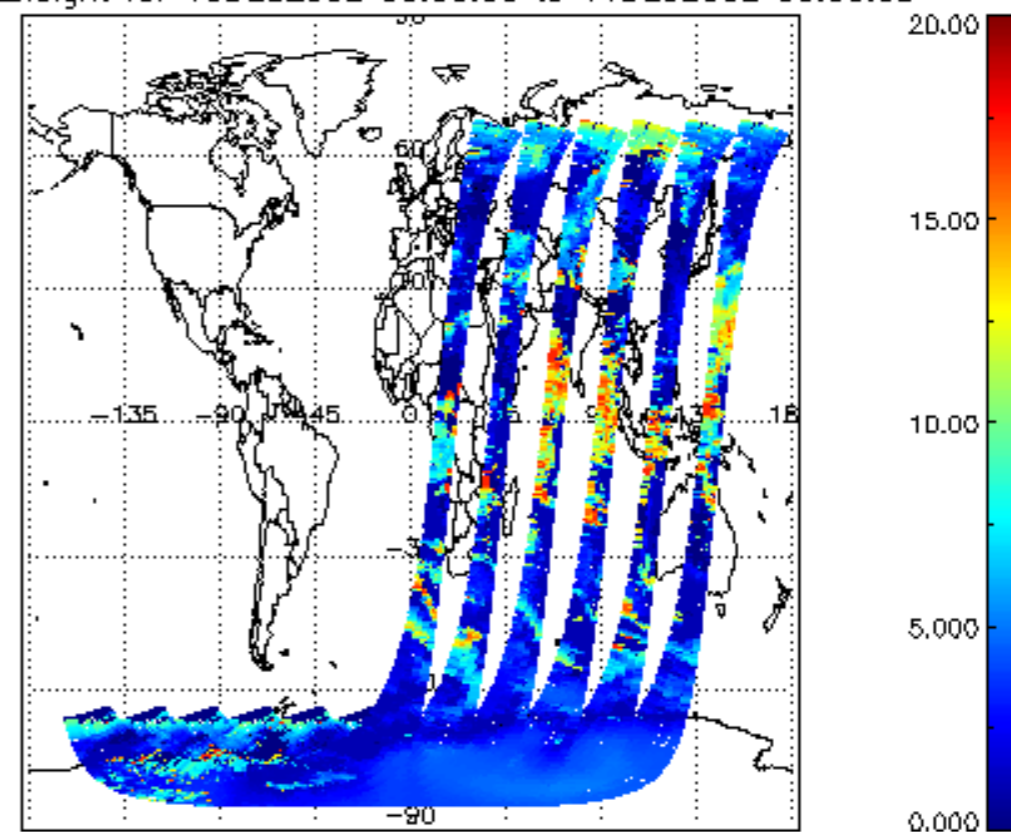
2.3 ADF monitoring

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_151118_20021209_100517_20021211_100517
3	SCI_MF1_AXNIEC20100218_151220_20021210_075304_20021212_075304

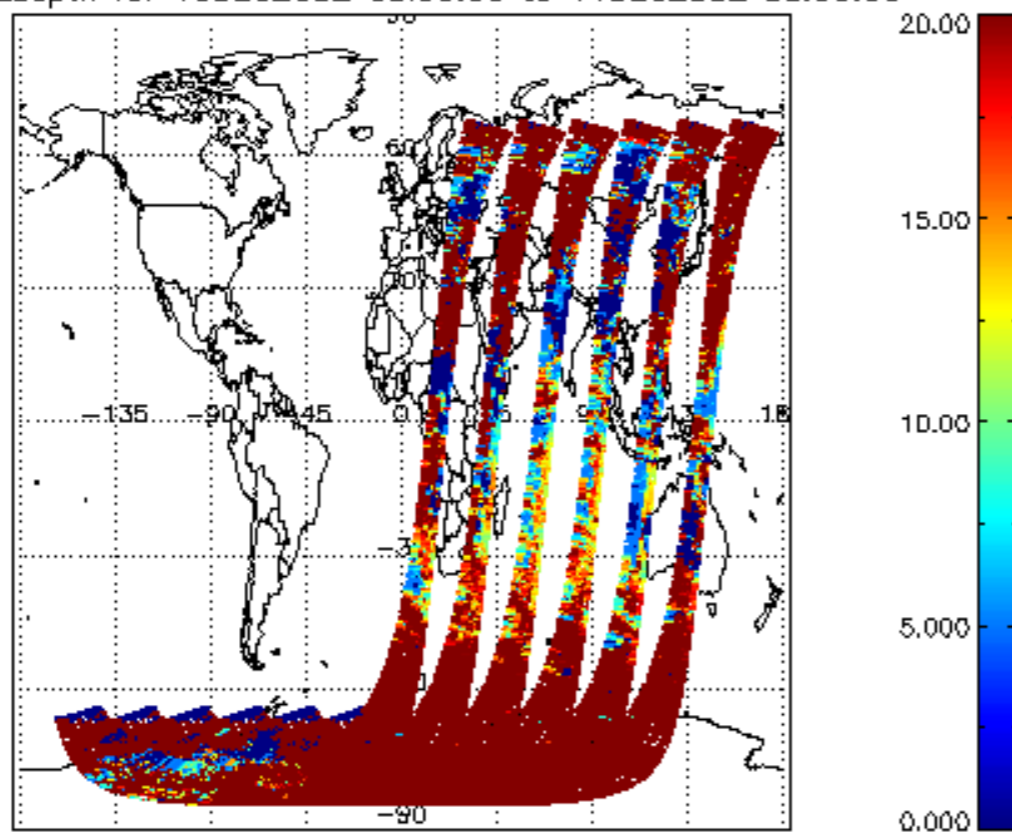
cL_frac for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



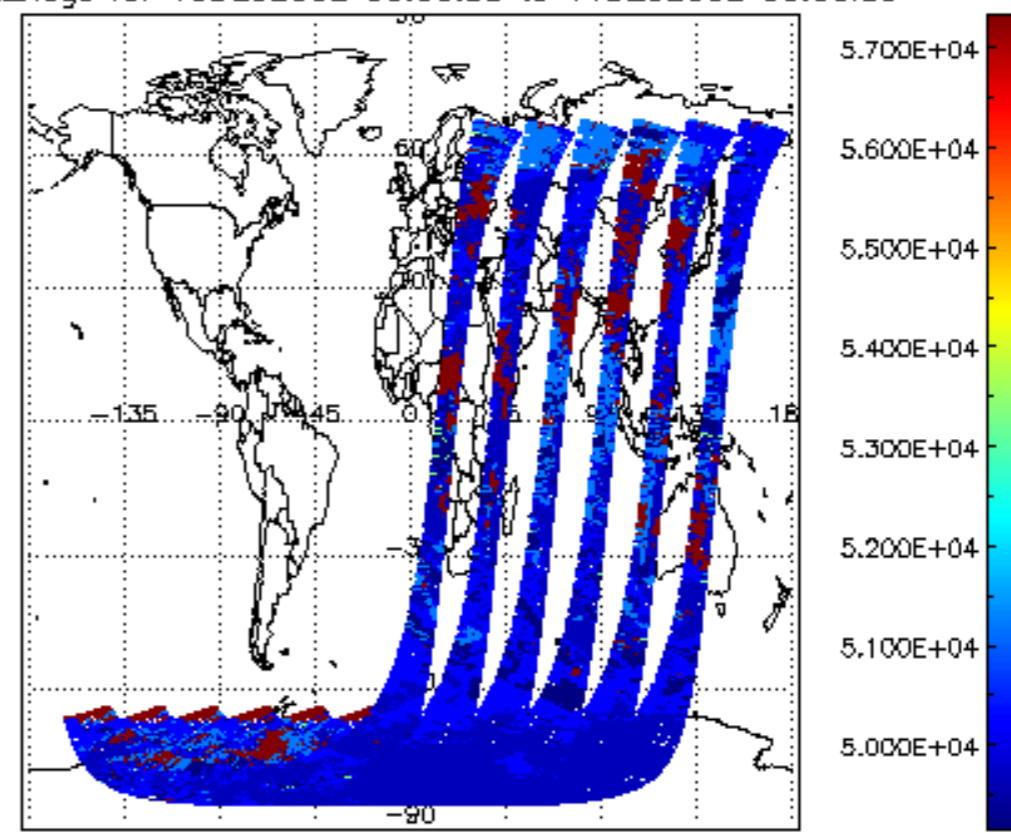
cL_top_height for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

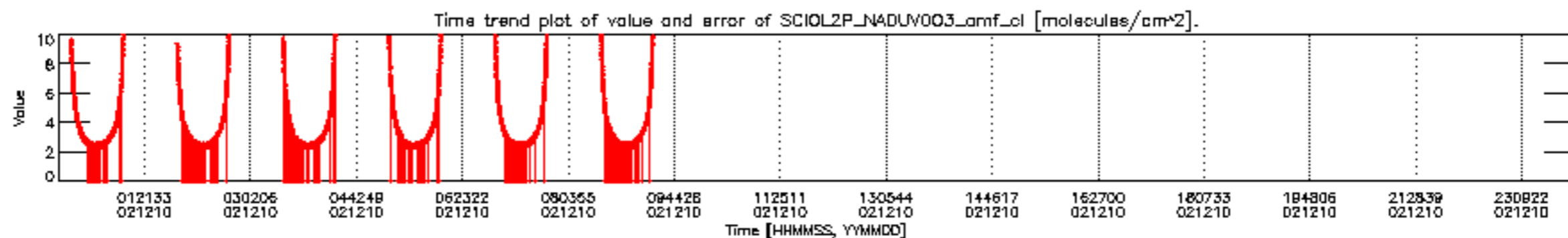
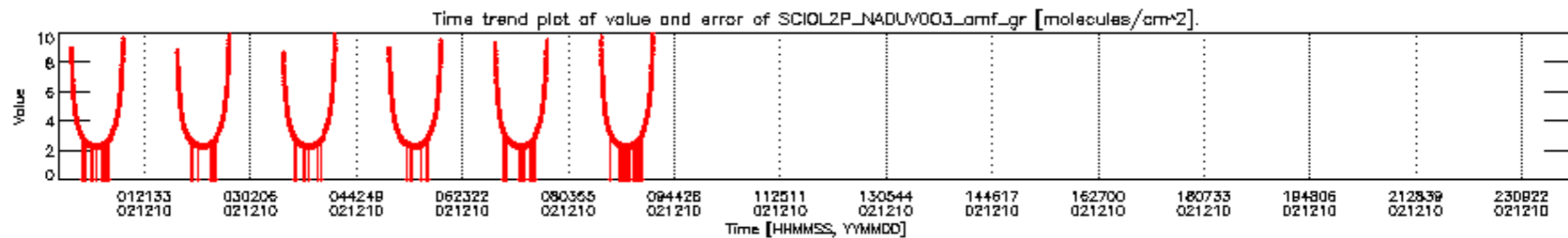
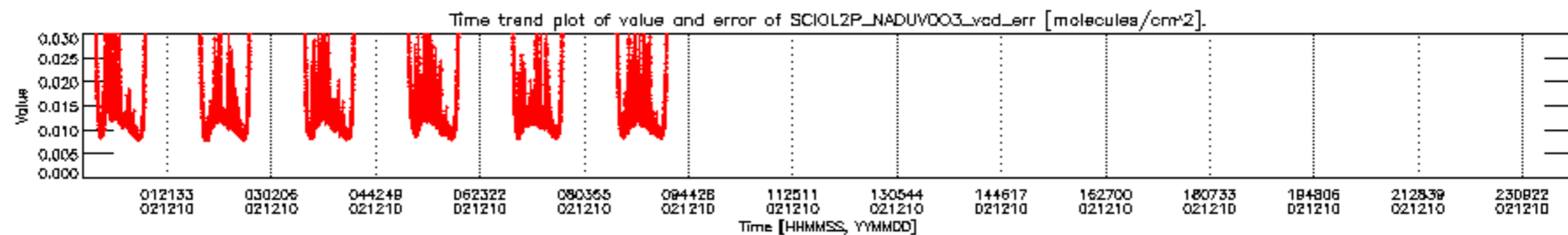
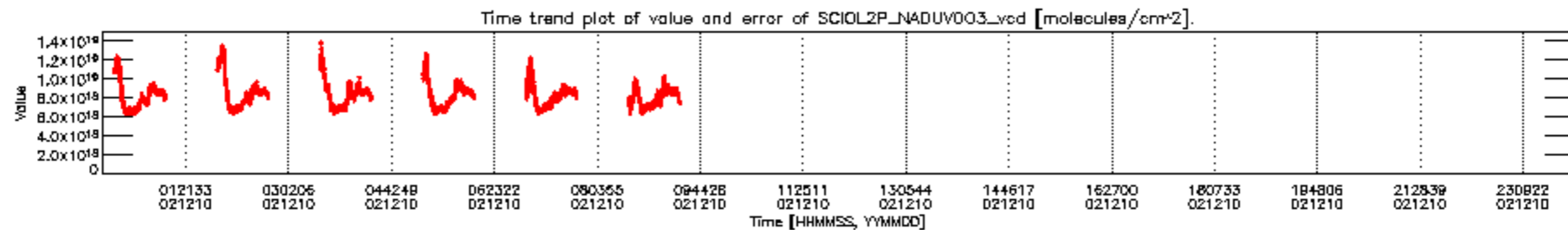


cL_opt_depth for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

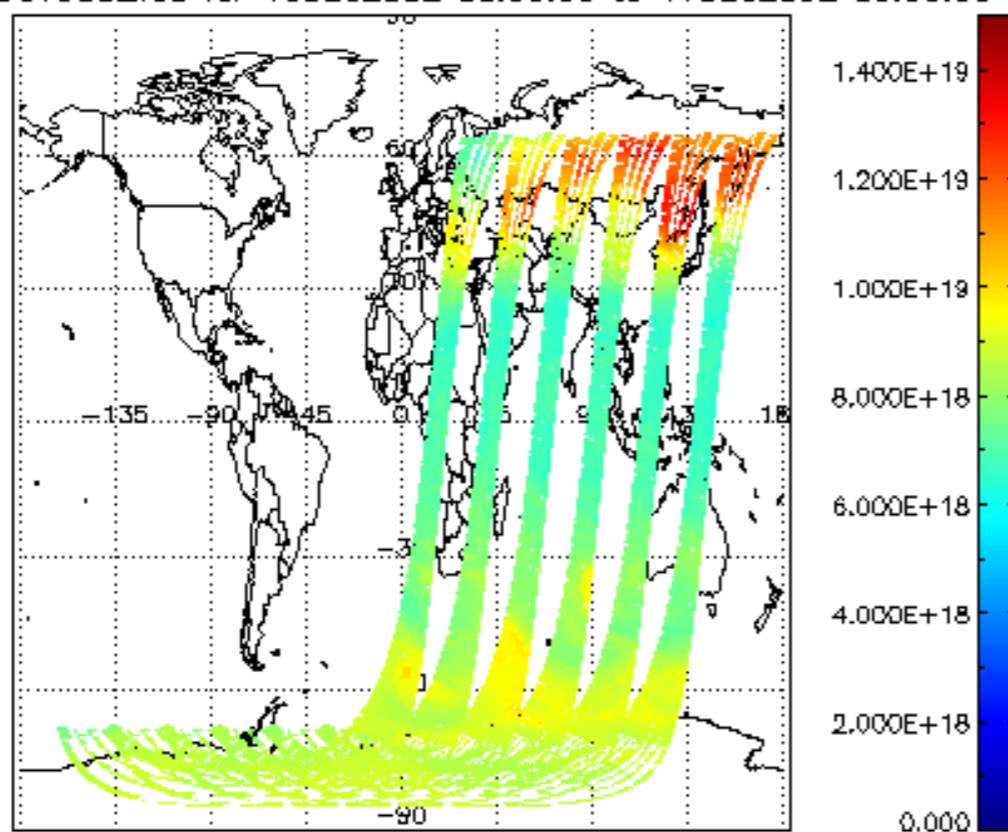


cloud_flags for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

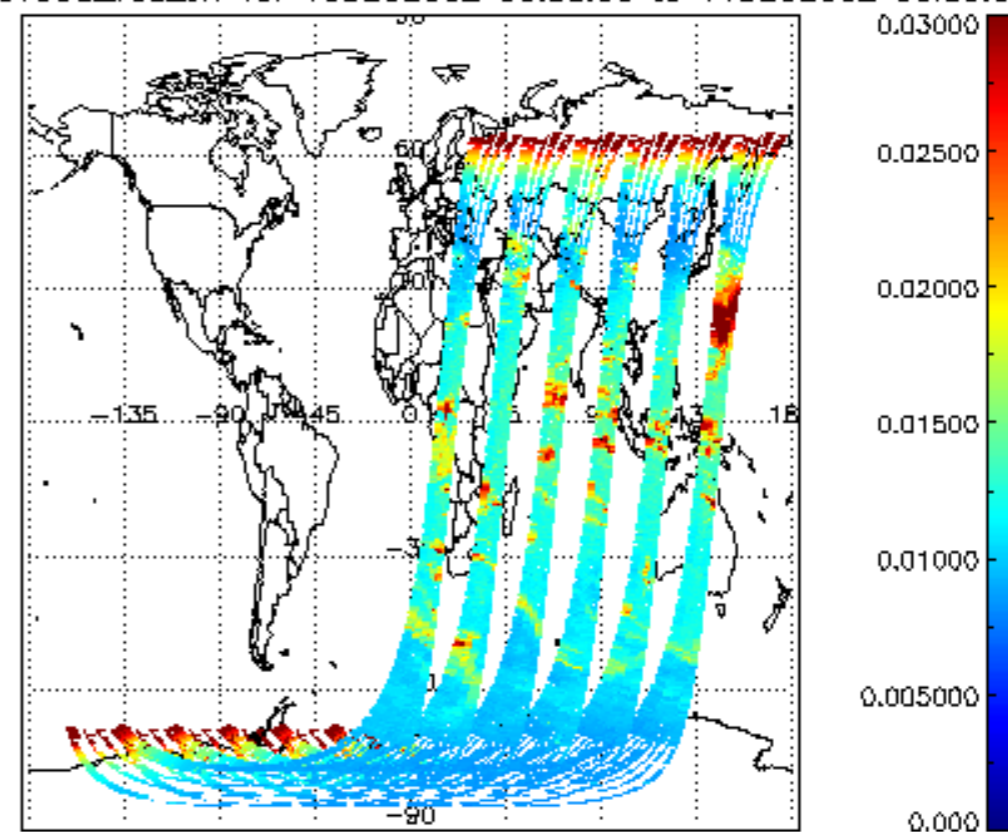




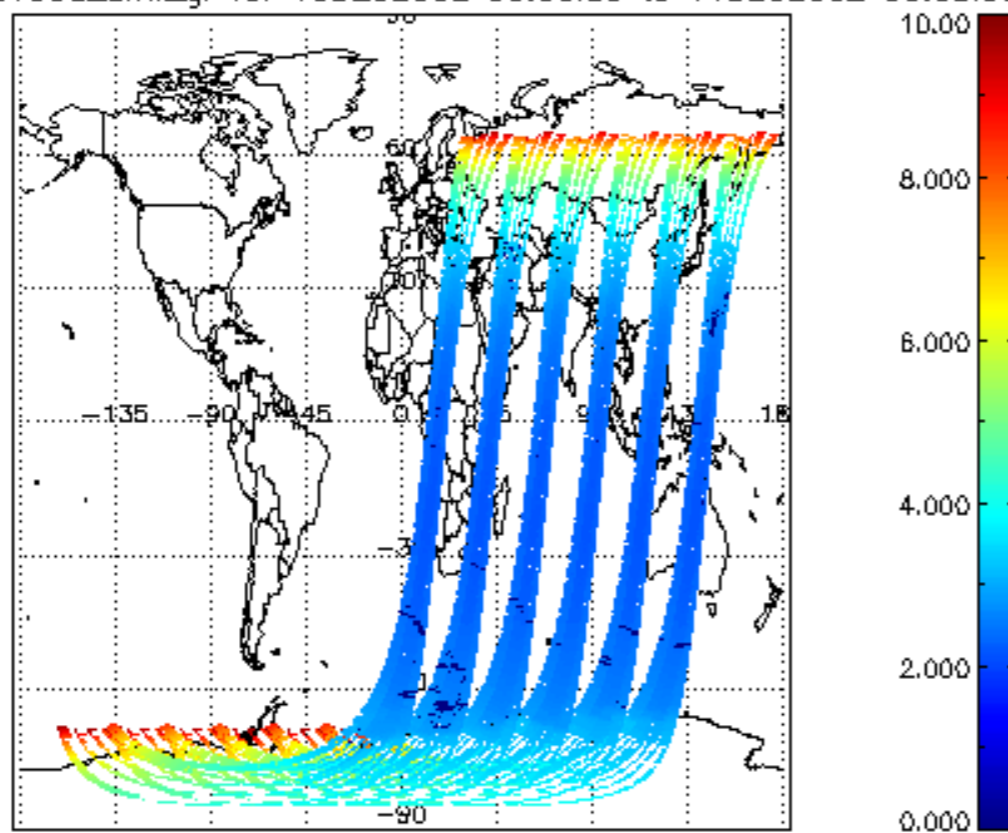
SCIOL2P_NADUV003_vcd for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



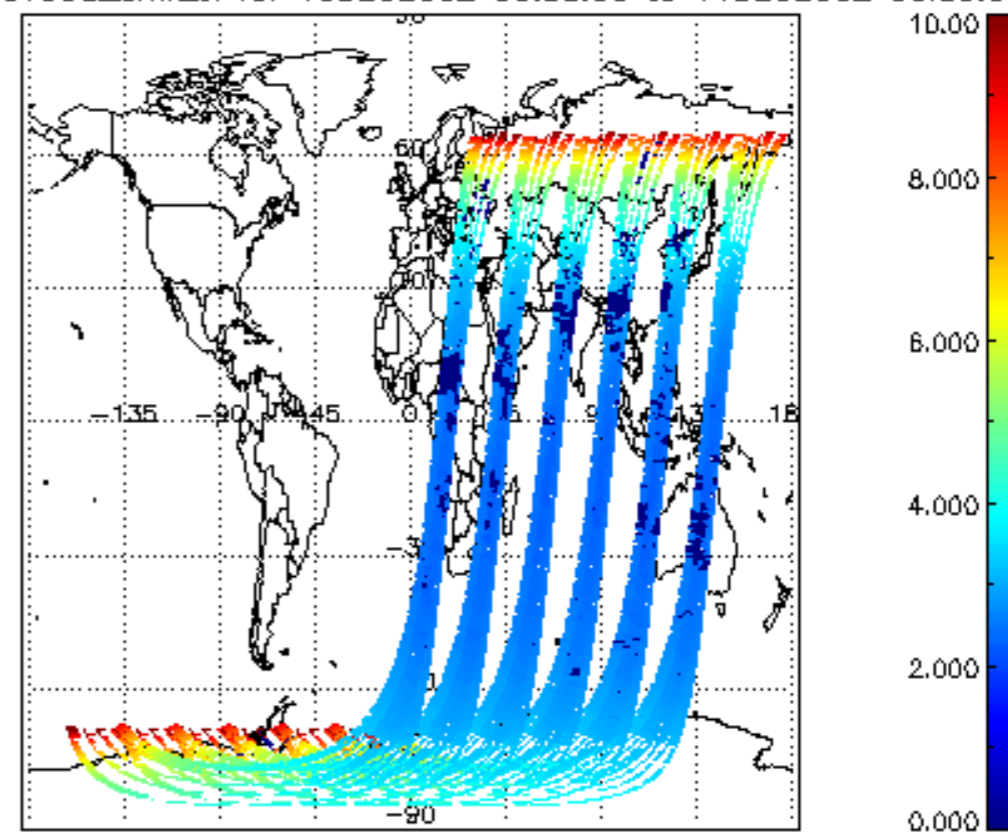
SCIOL2P_NADUV003_vcd_err for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

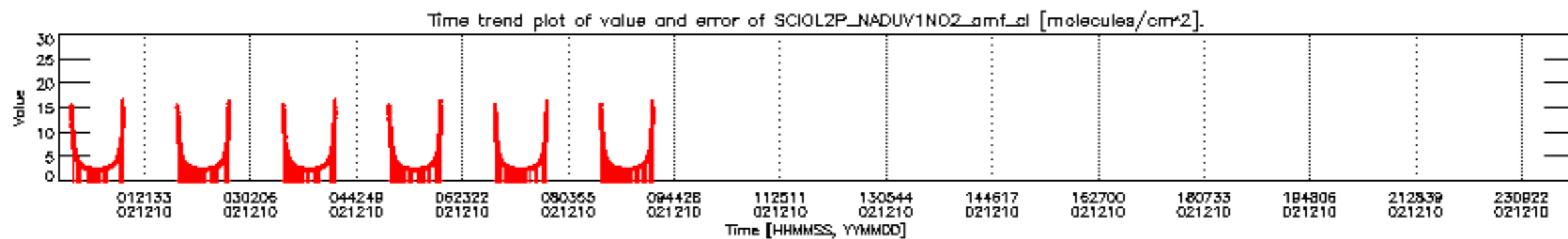
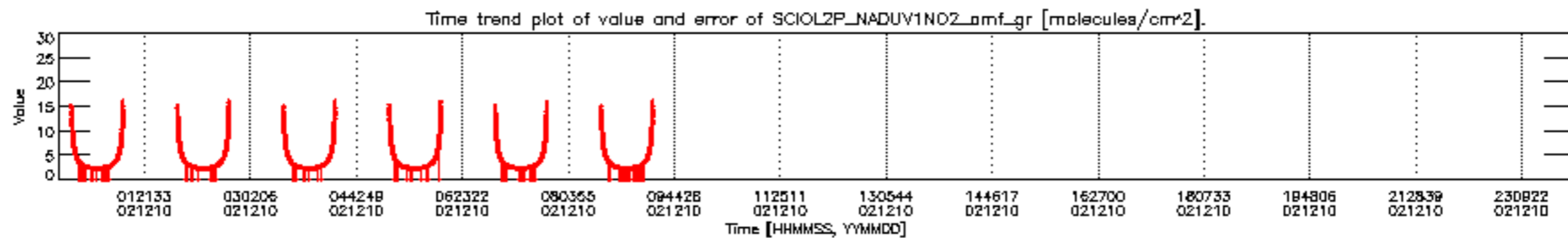
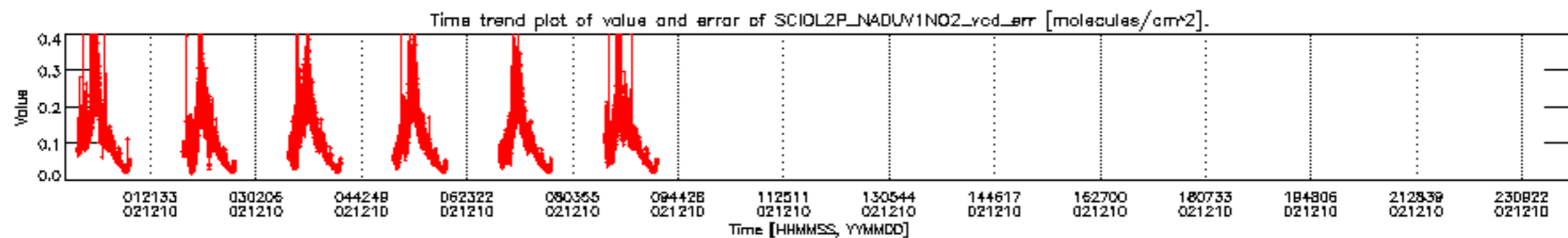
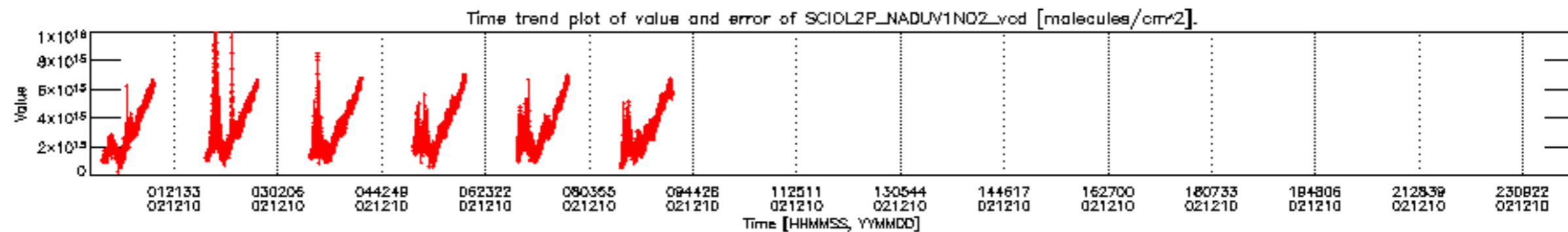


SCIOL2P_NADUV003_amf_gr for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

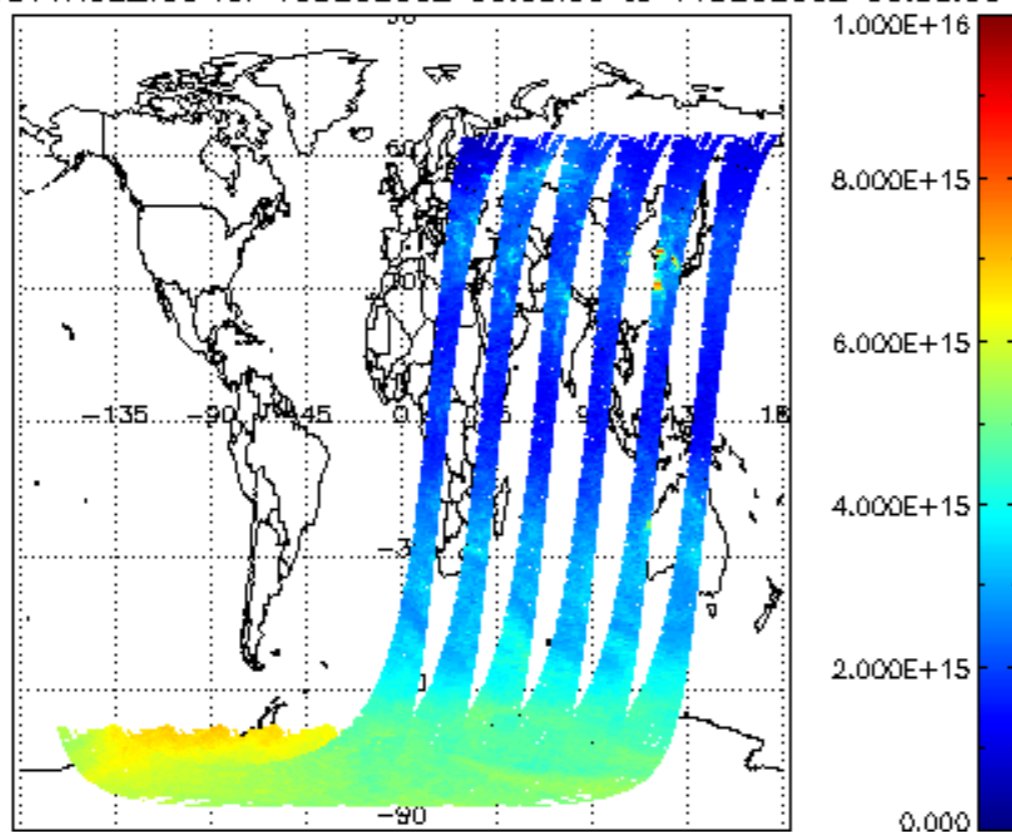


SCIOL2P_NADUV003_amf_cl for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

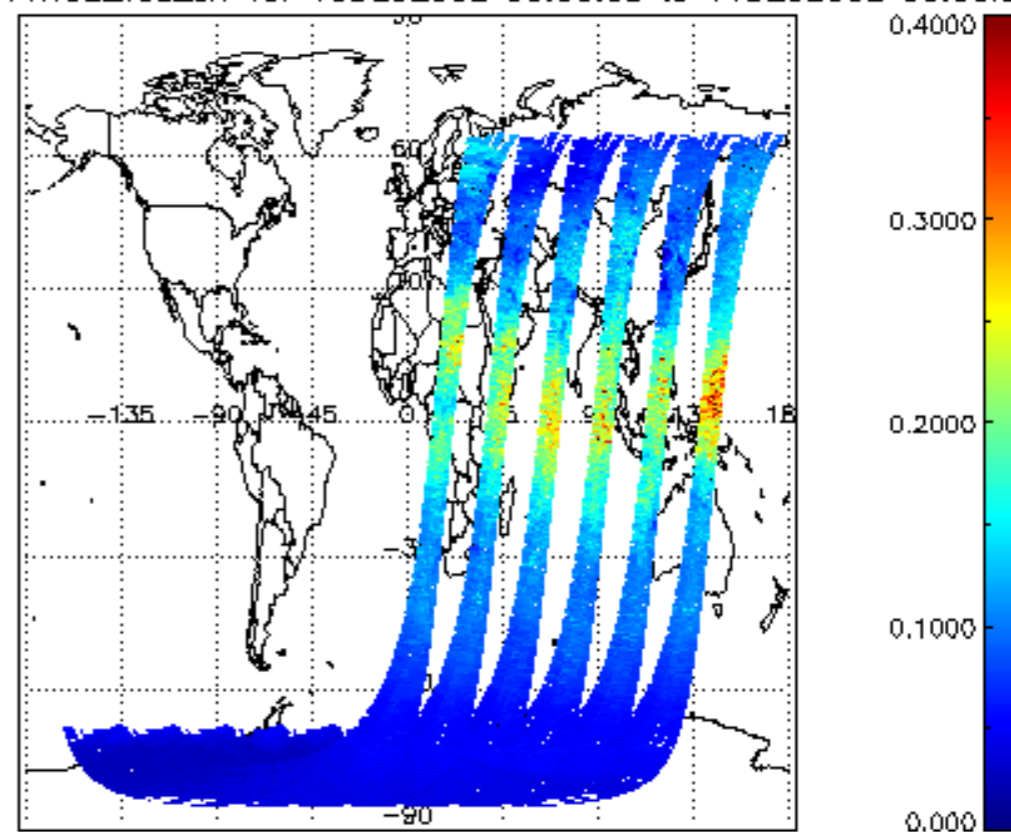




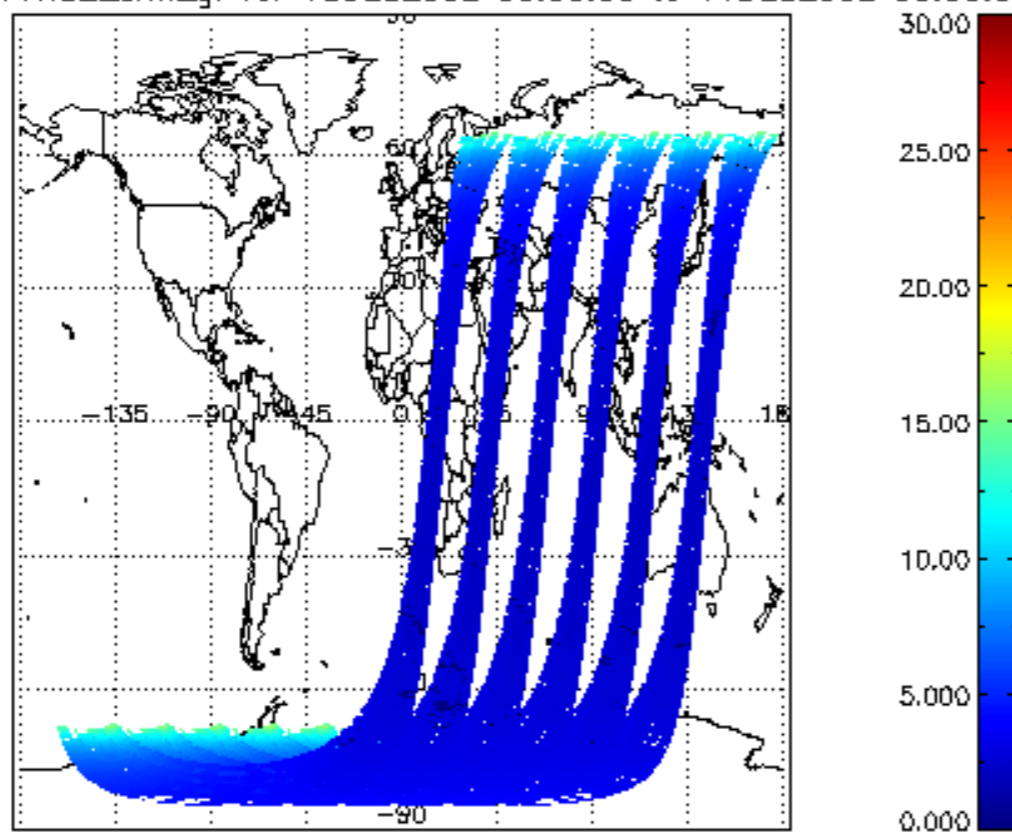
SCIOL2P_NADUV1NO2_vcd for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



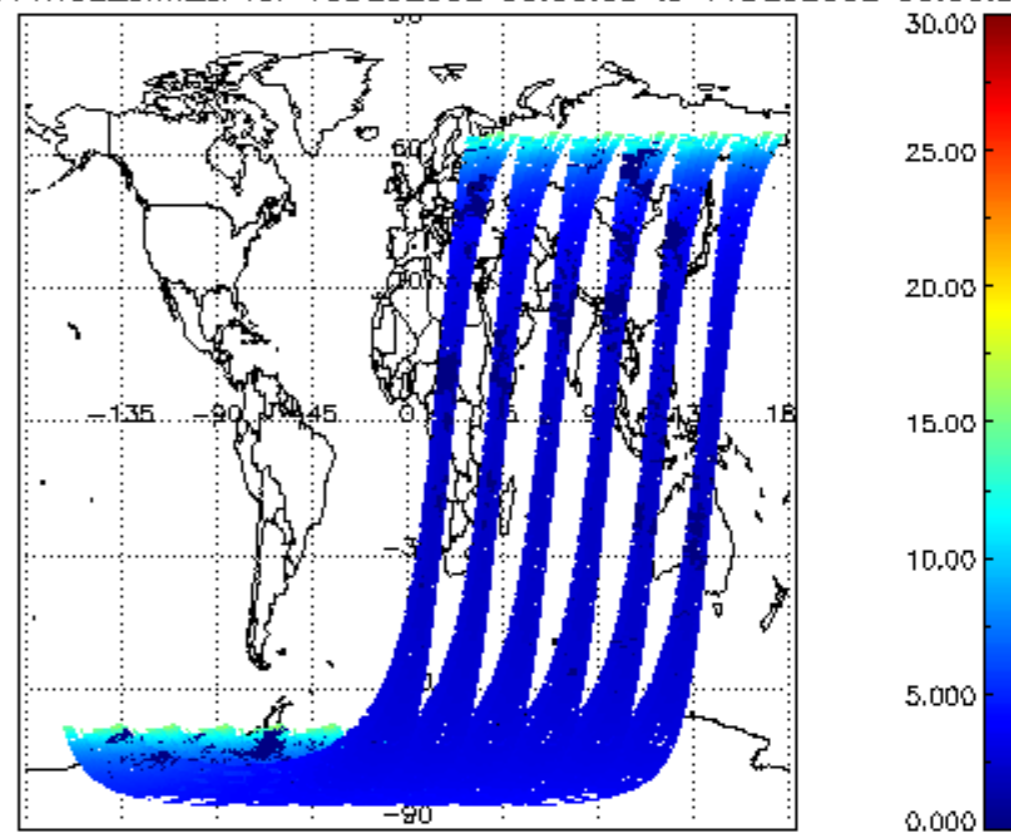
SCIOL2P_NADUV1NO2_vcd_err for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



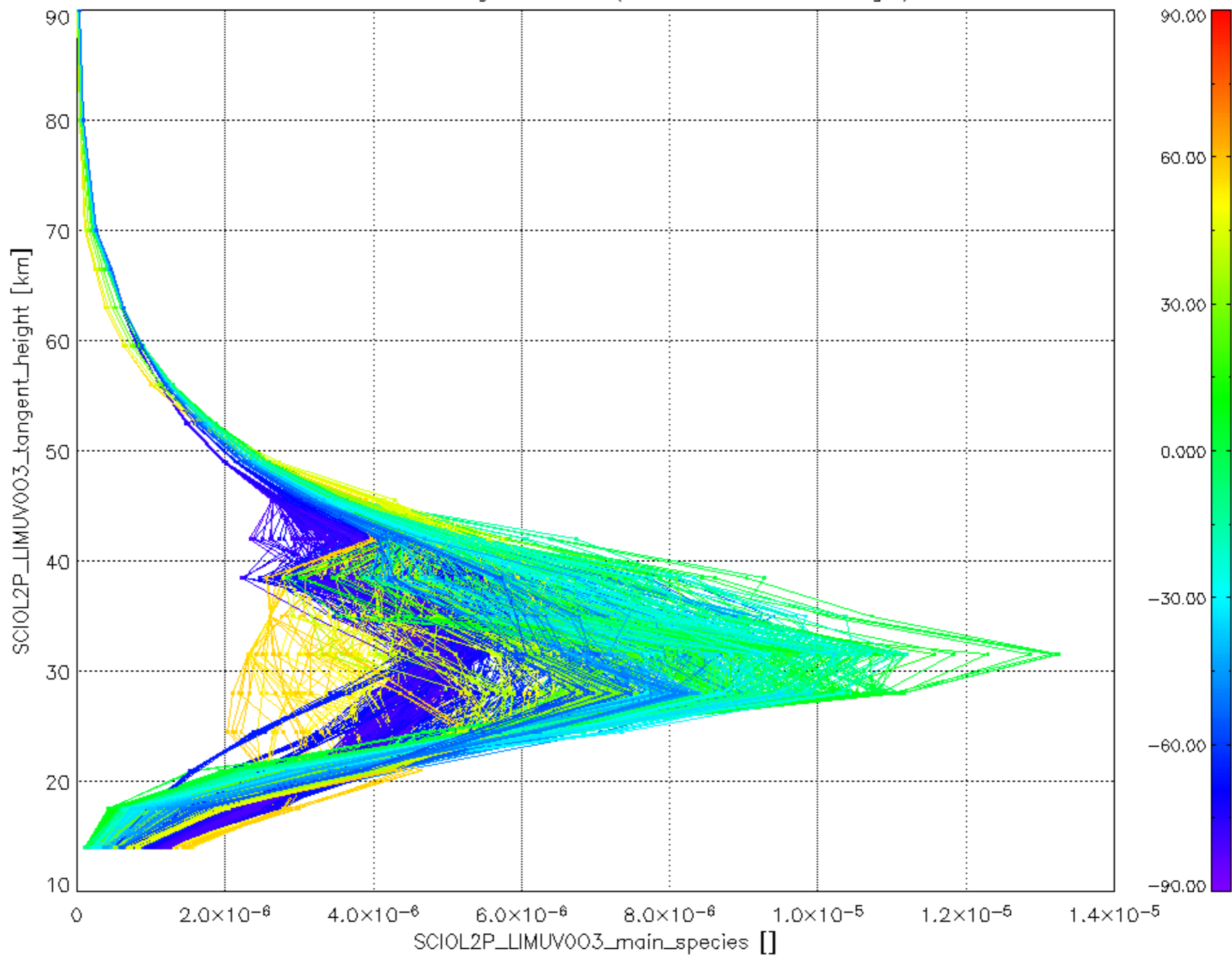
SCIOL2P_NADUV1NO2_amf_gr for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



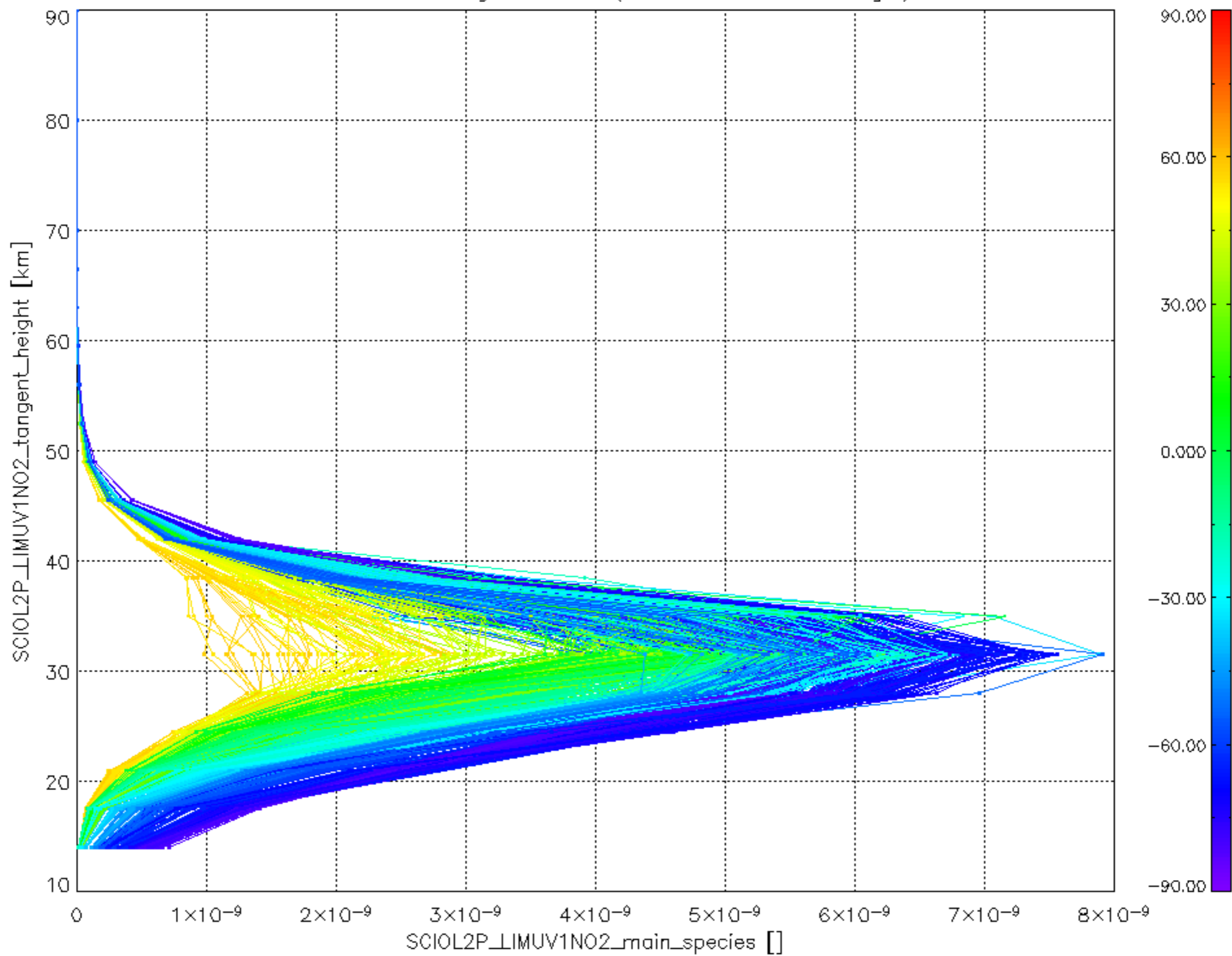
SCIOL2P_NADUV1NO2_amf_cl for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



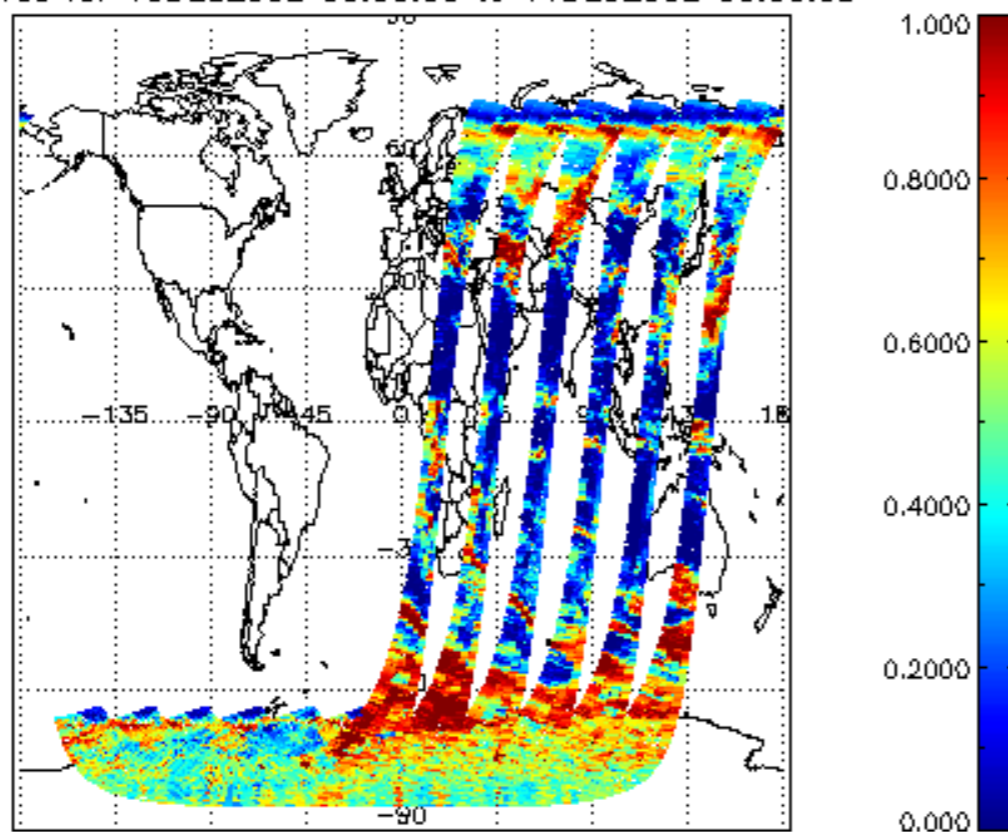
Plot of SCIOL2P_LIMUV003_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



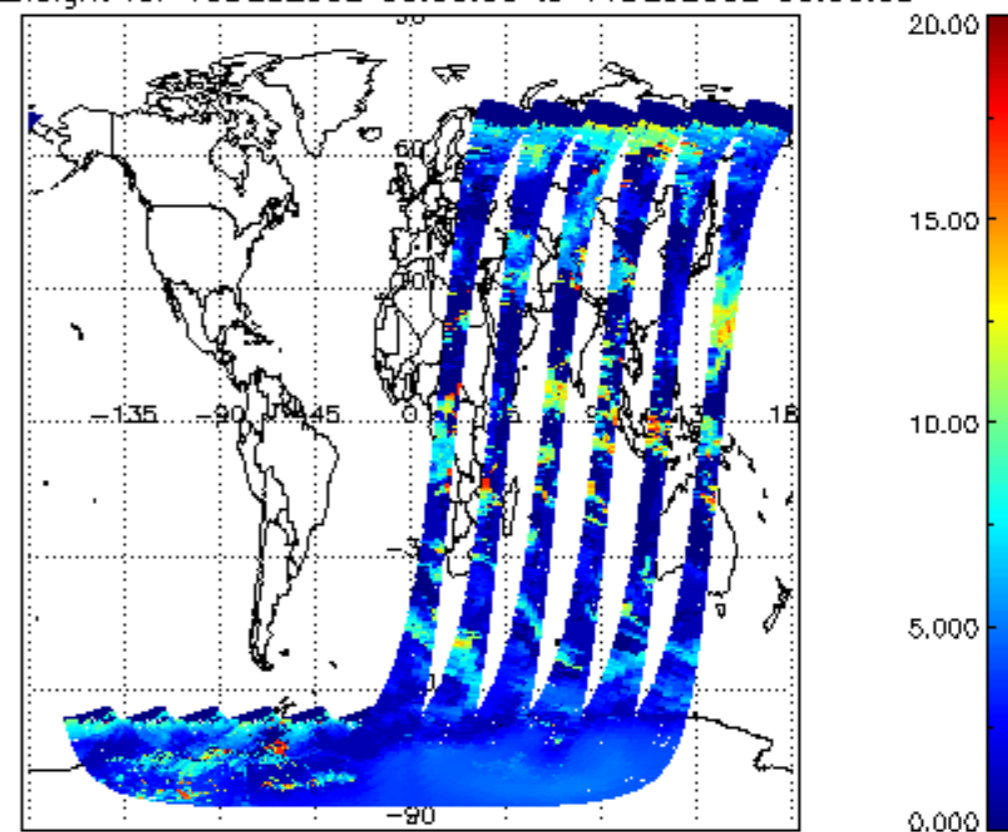
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



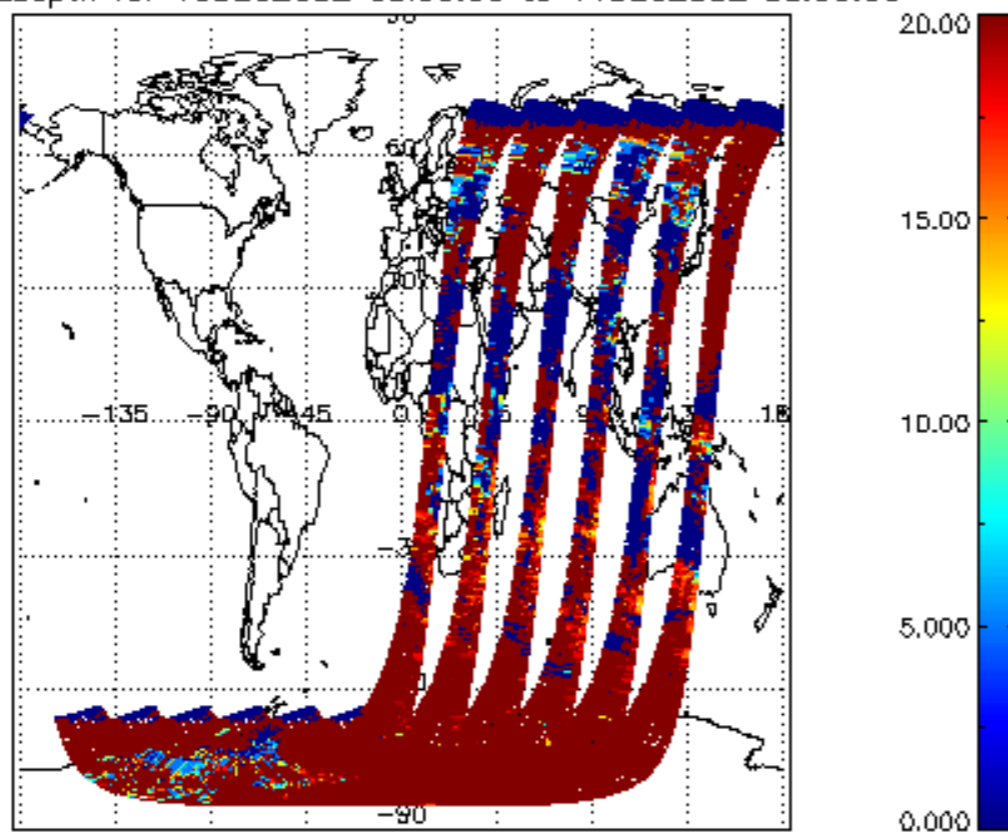
cL_frac for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



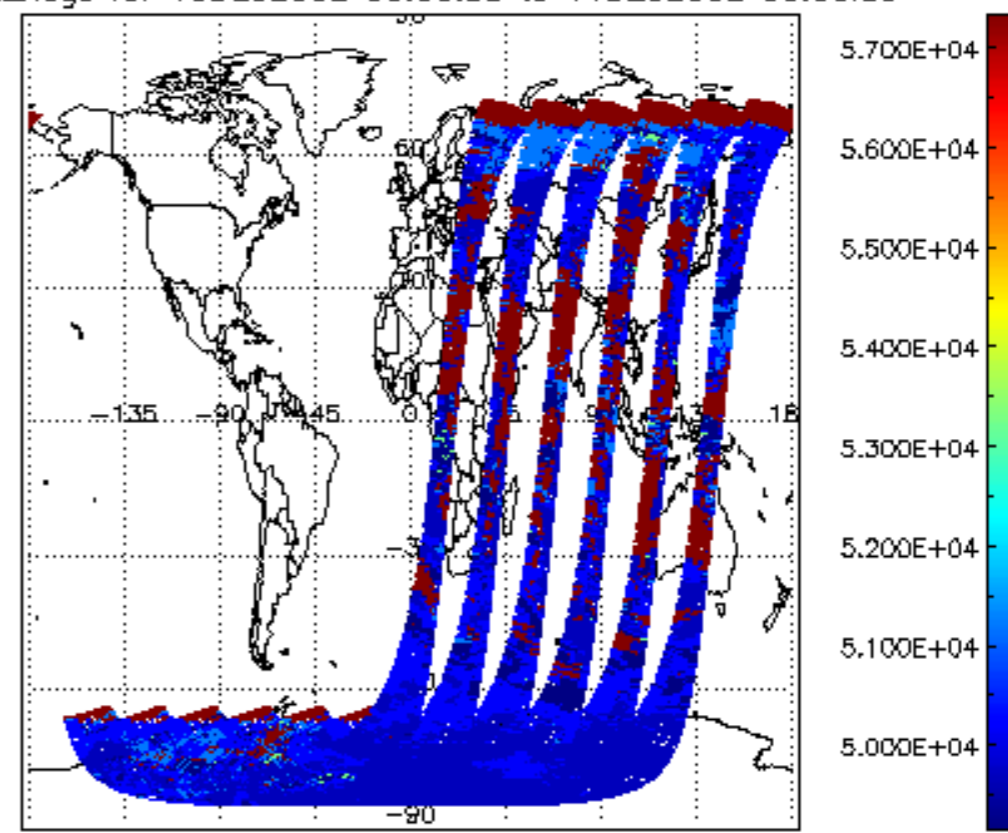
cL_top_height for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

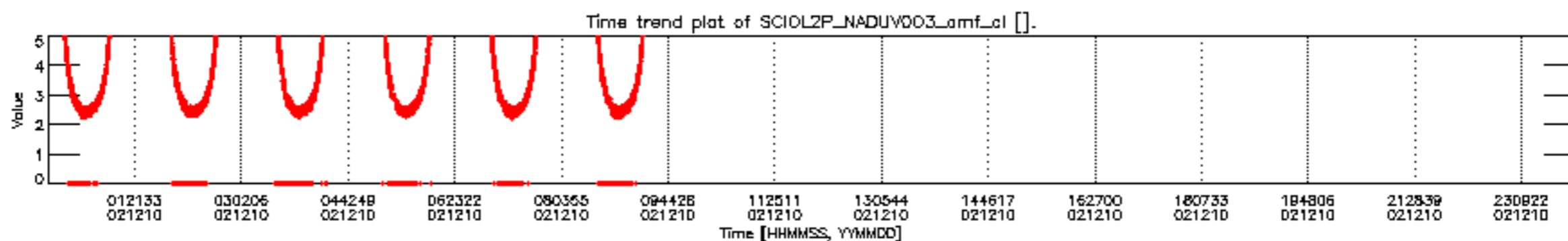
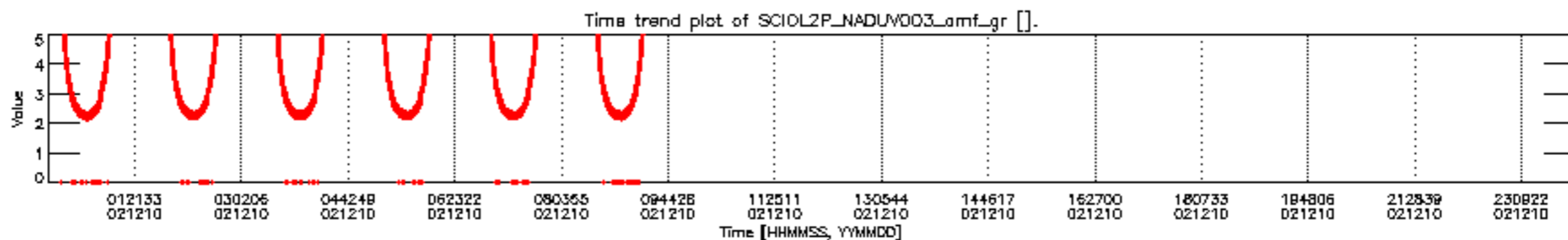
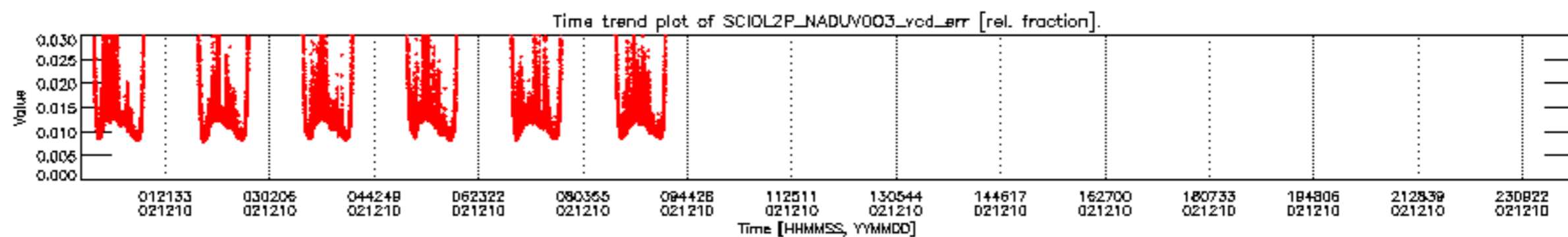
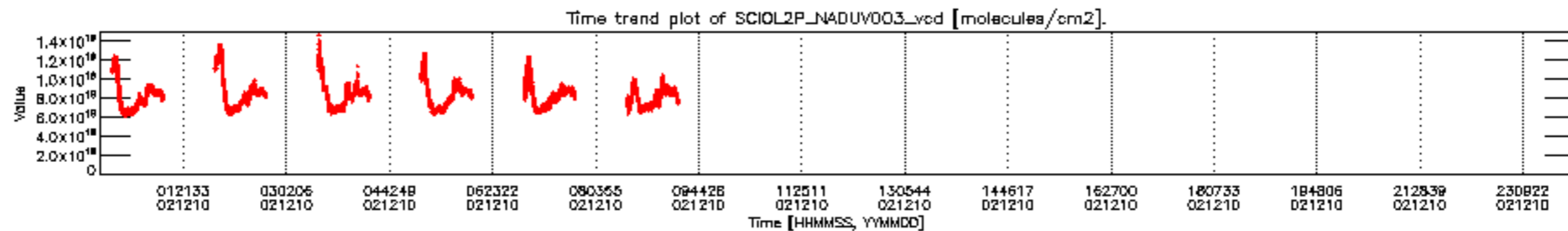


cL_opt_depth for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

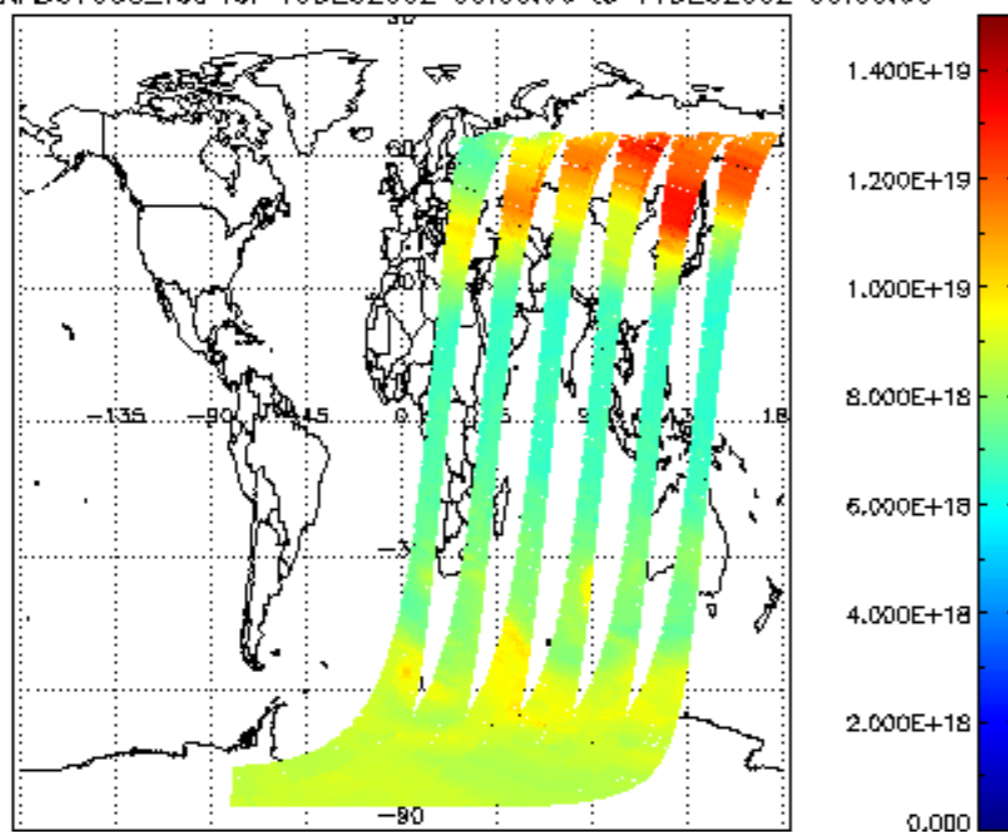


cloud_flags for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

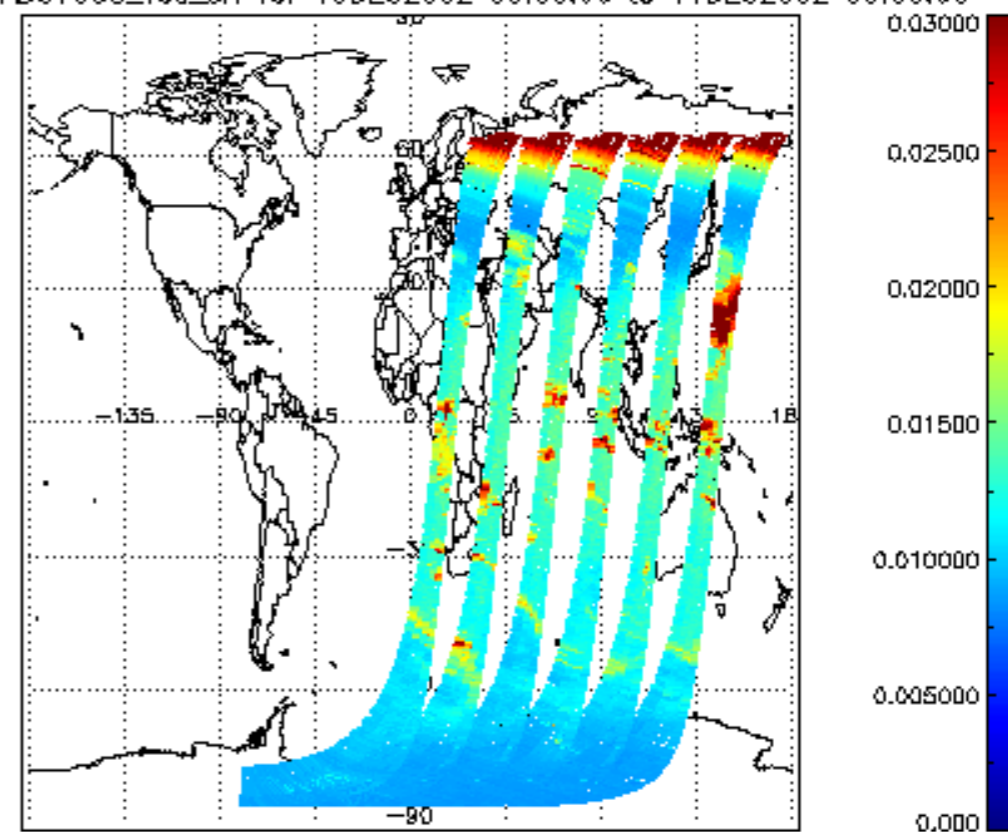




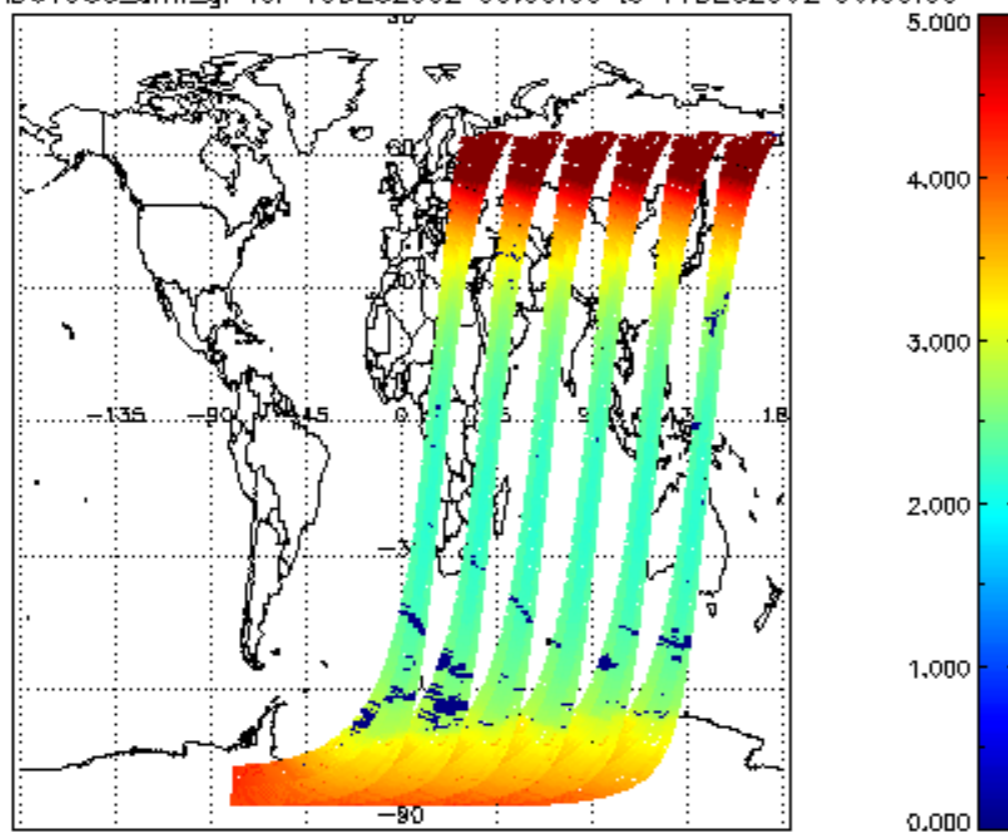
SCIOL2P_NADUV003_vcd for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



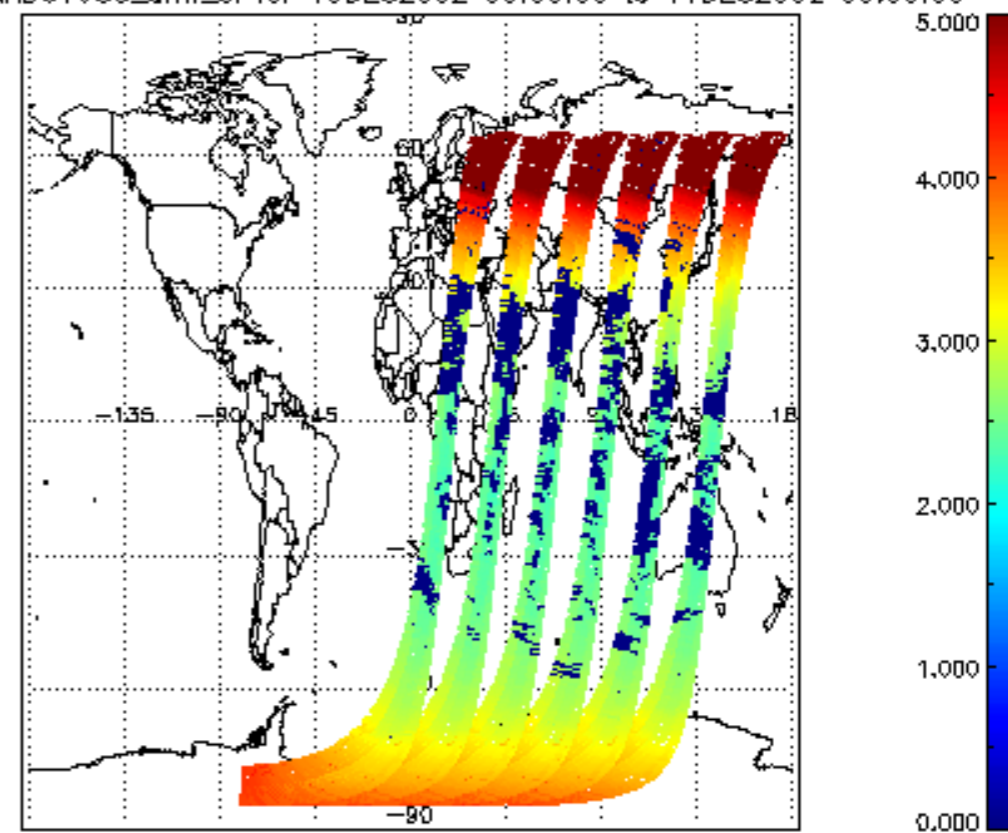
SCIOL2P_NADUV003_vcd_err for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

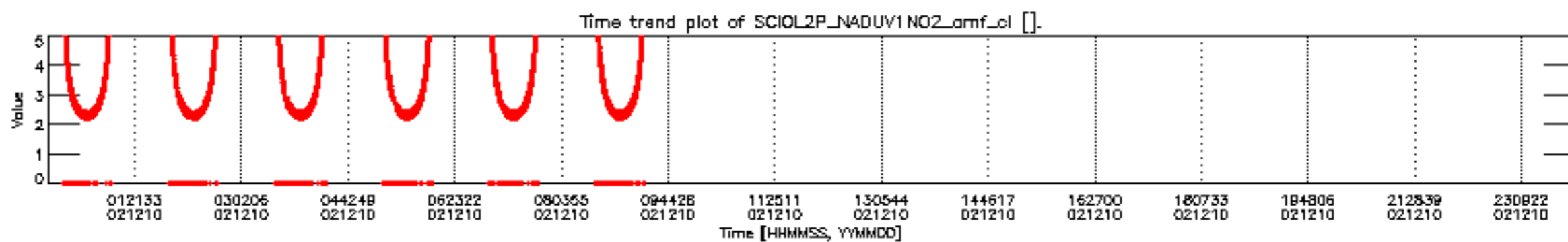
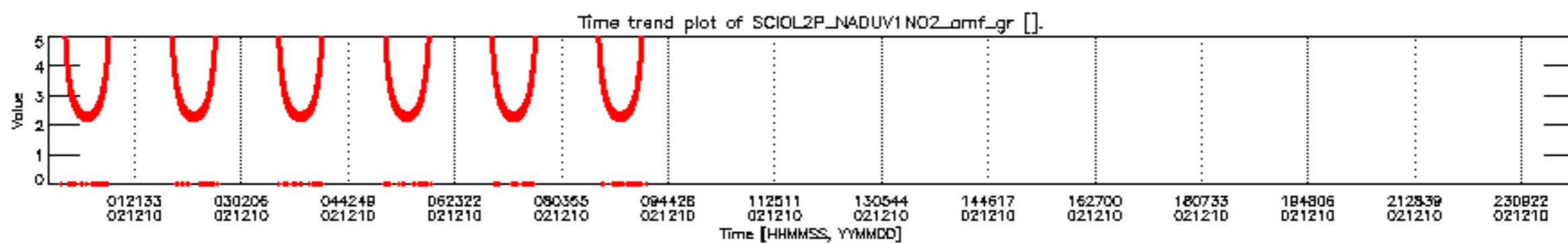
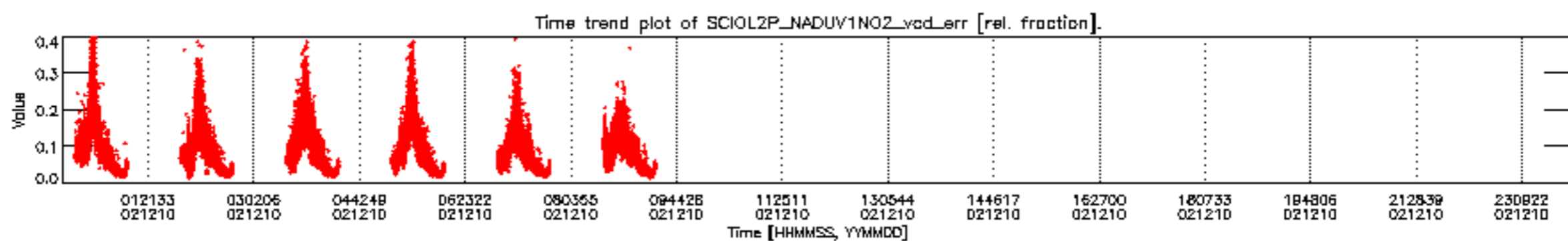
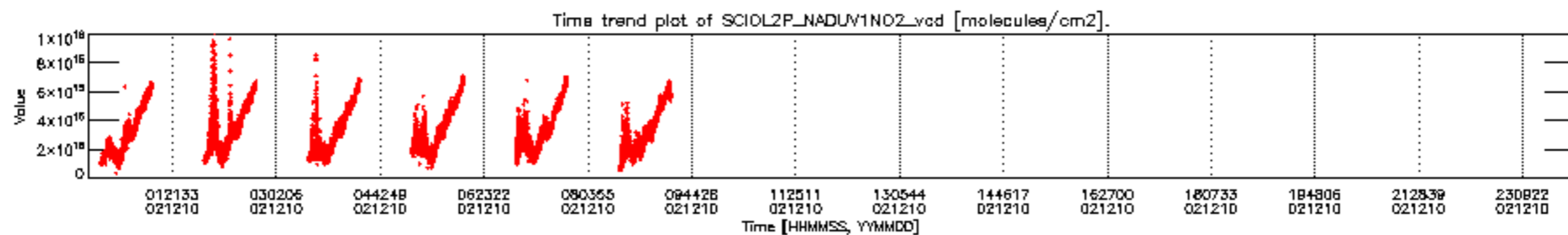


SCIOL2P_NADUV003_amf_gr for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

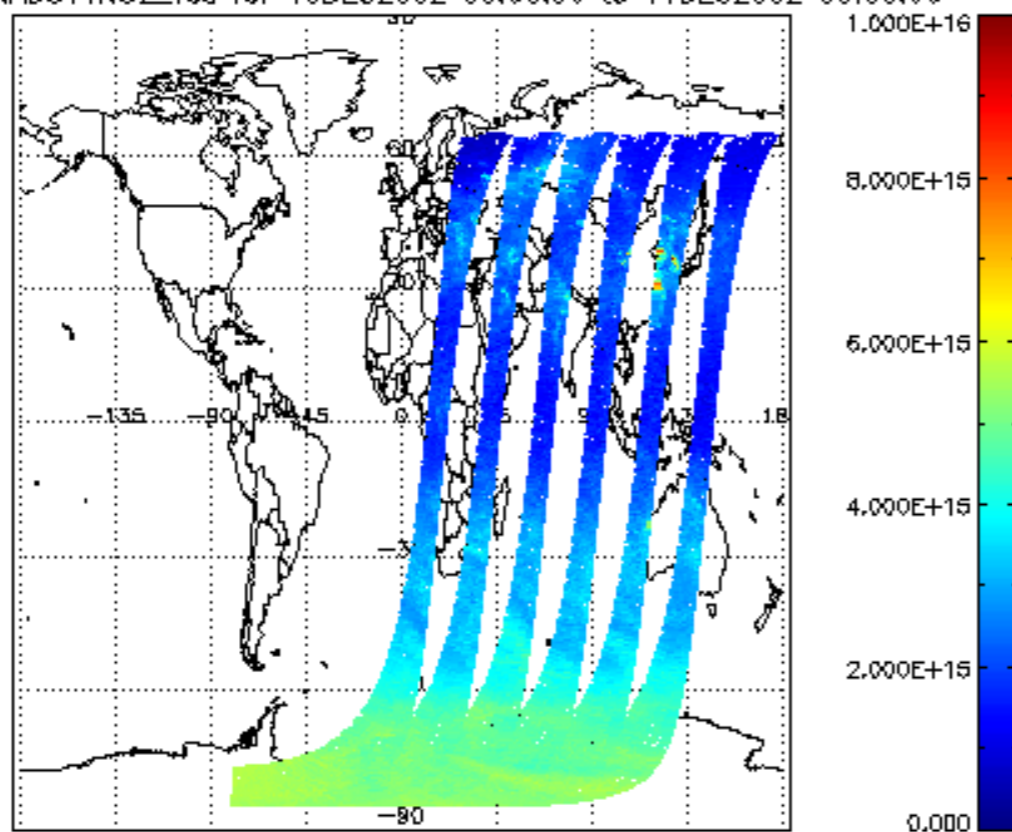


SCIOL2P_NADUV003_amf_cl for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

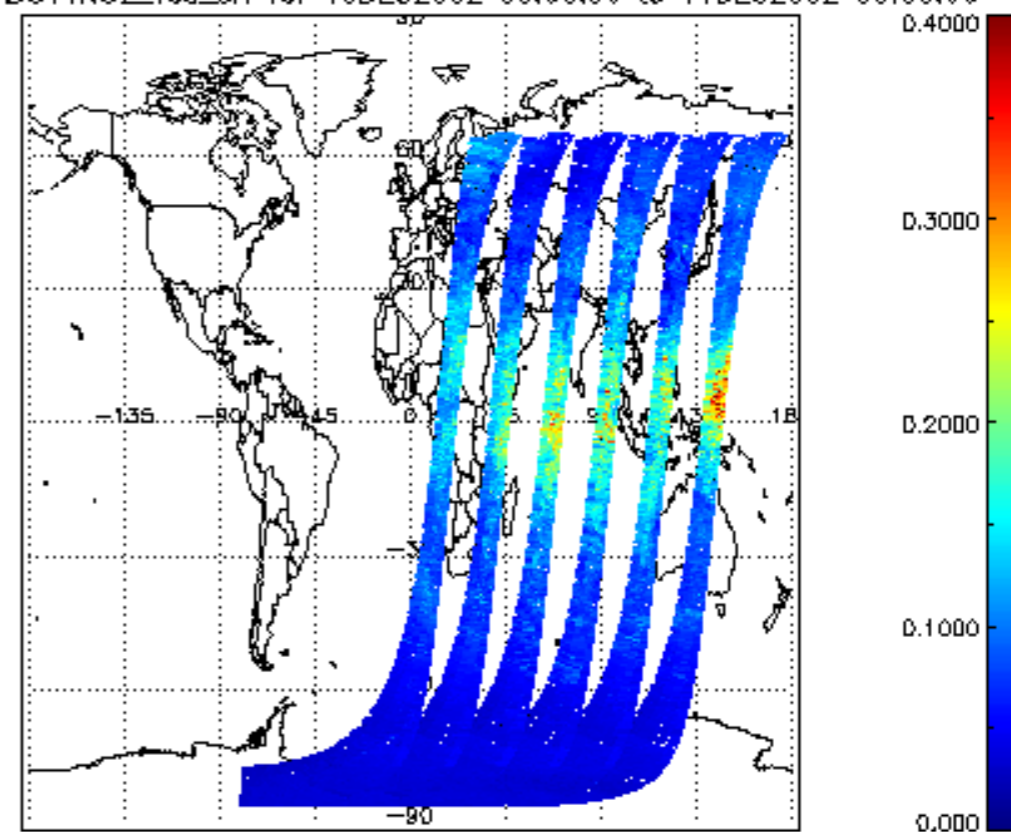




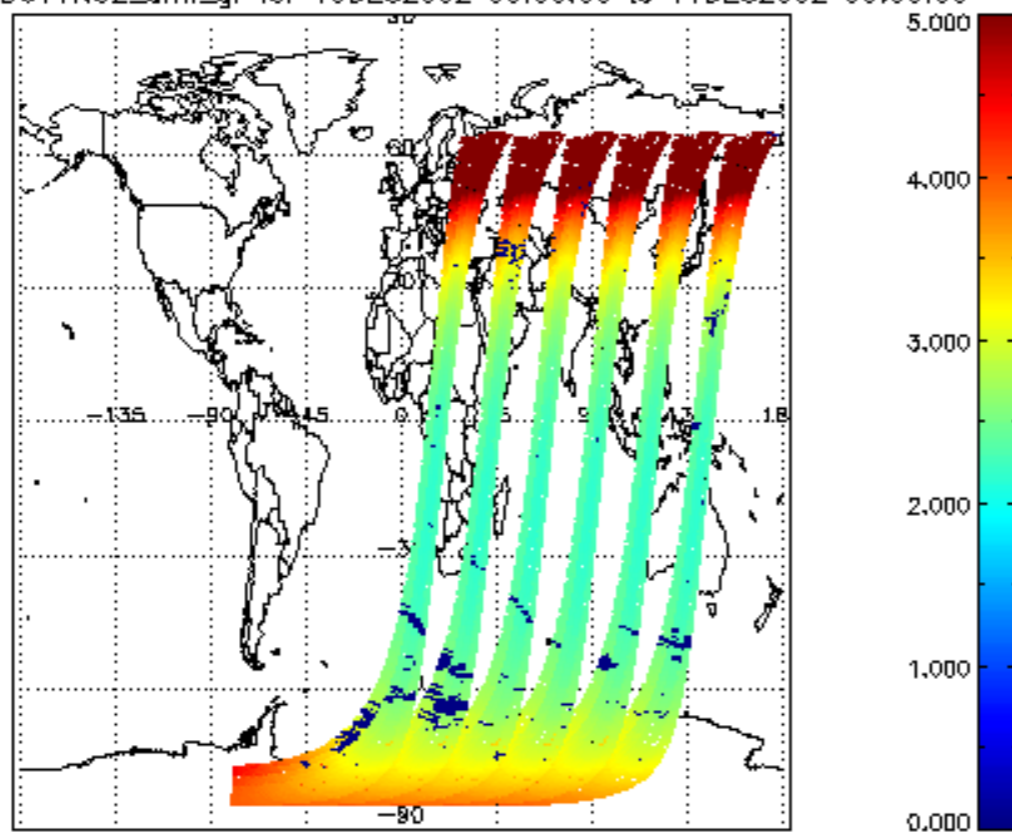
SCIOL2P_NADUV1NO2_vcd for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



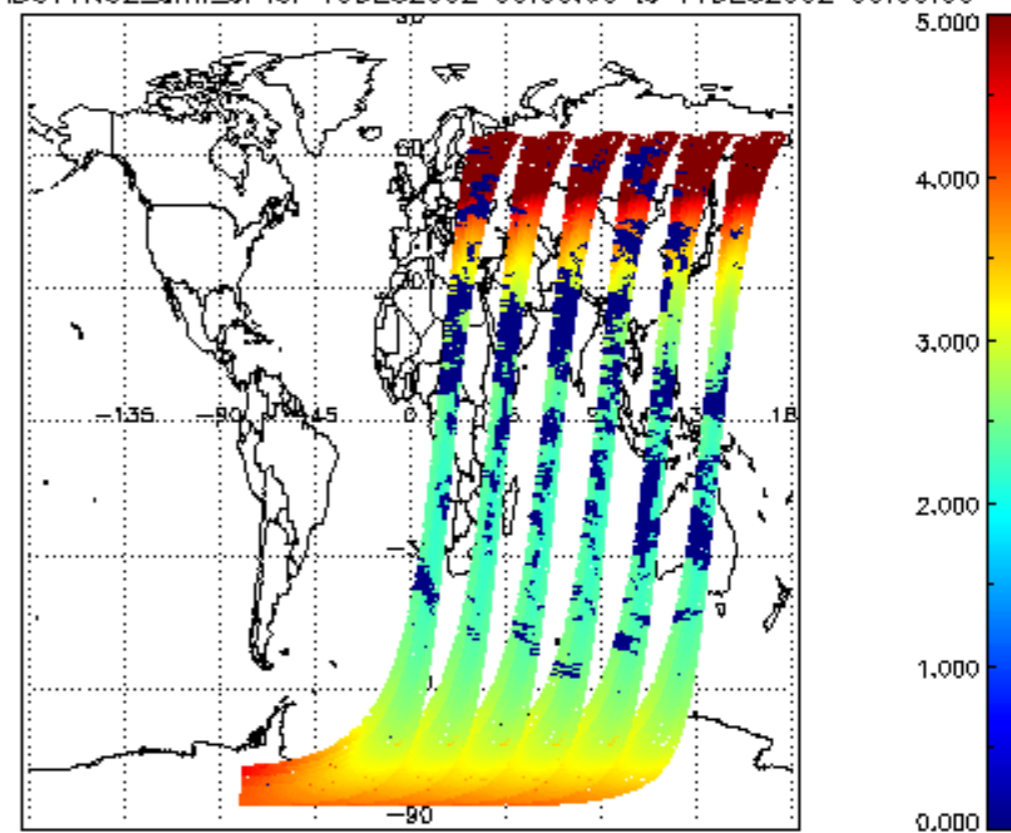
SCIOL2P_NADUV1NO2_vcd_err for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

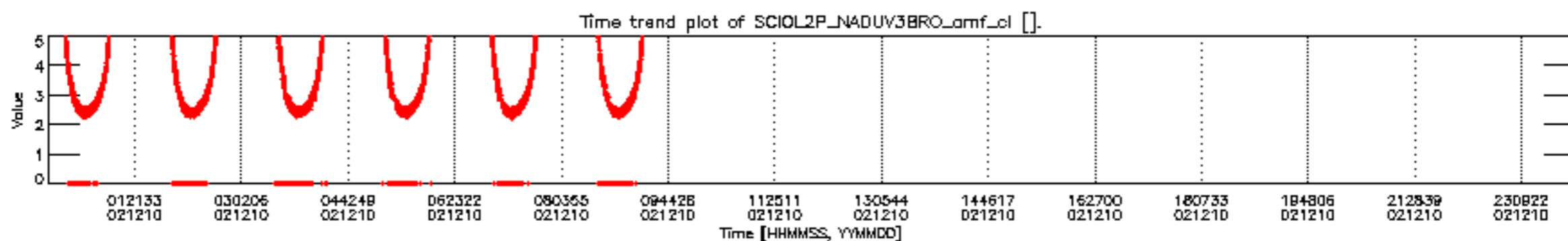
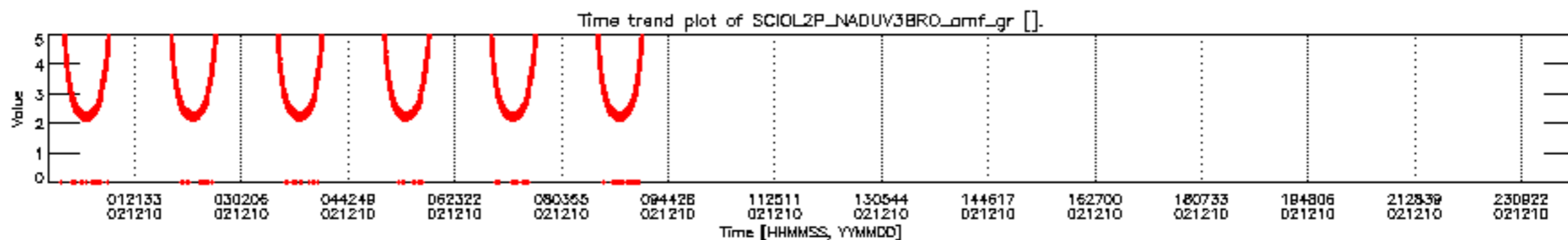
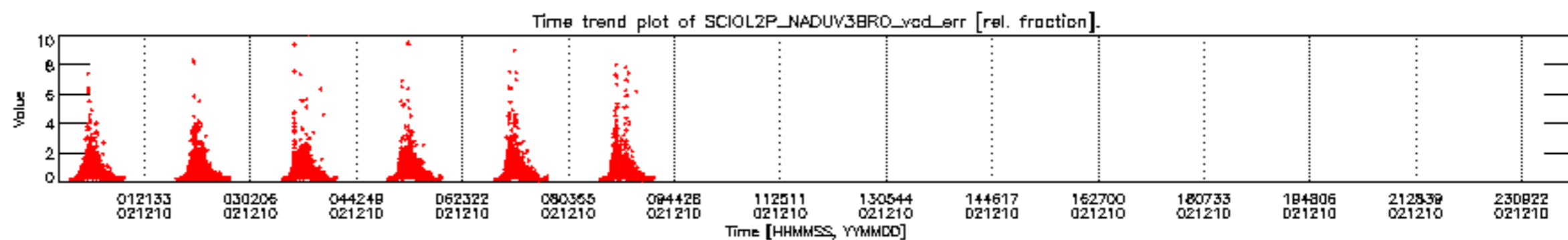
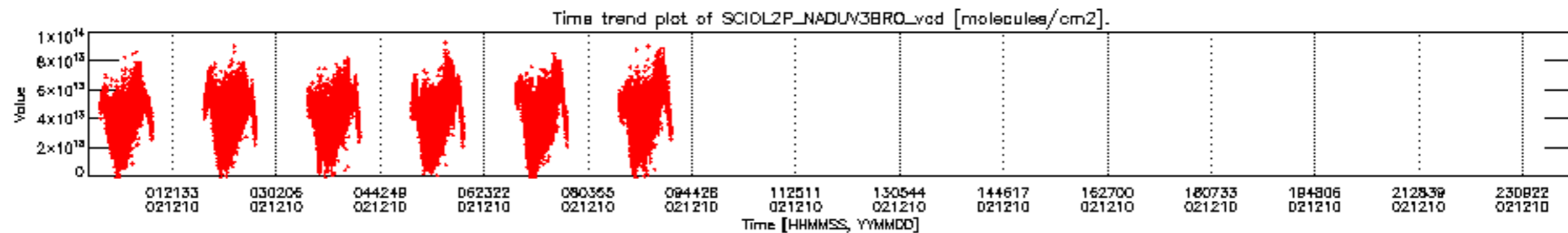


SCIOL2P_NADUV1NO2_amf_gr for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

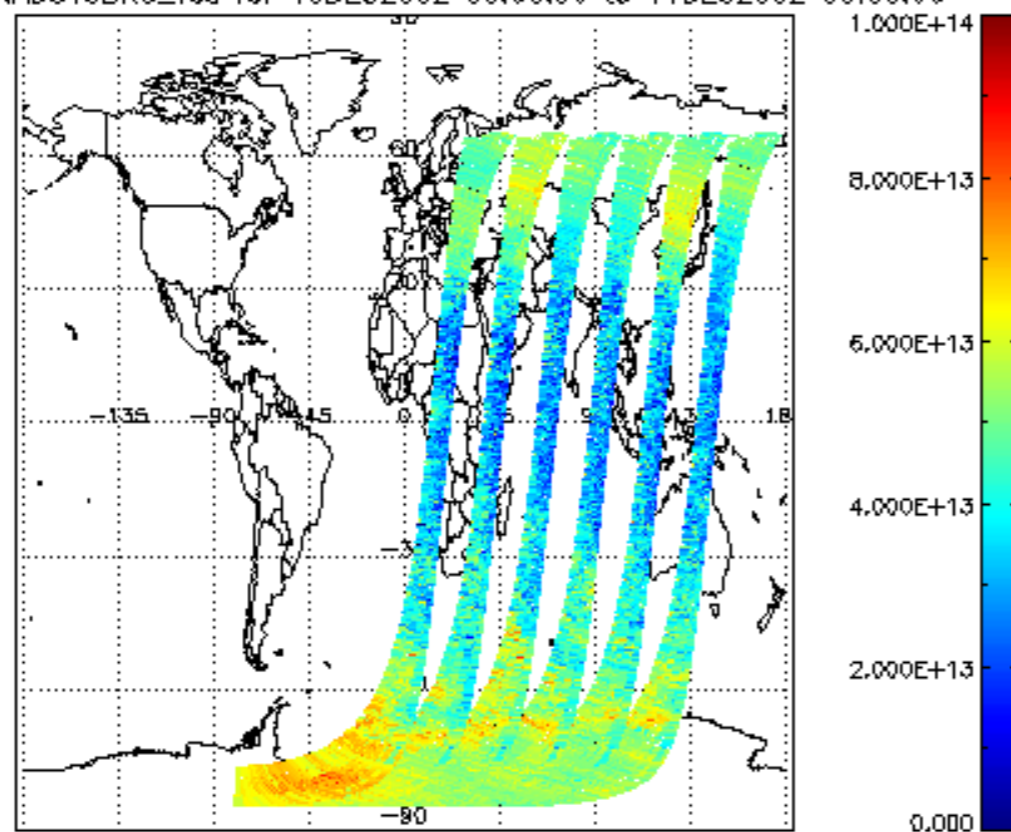


SCIOL2P_NADUV1NO2_amf_cl for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

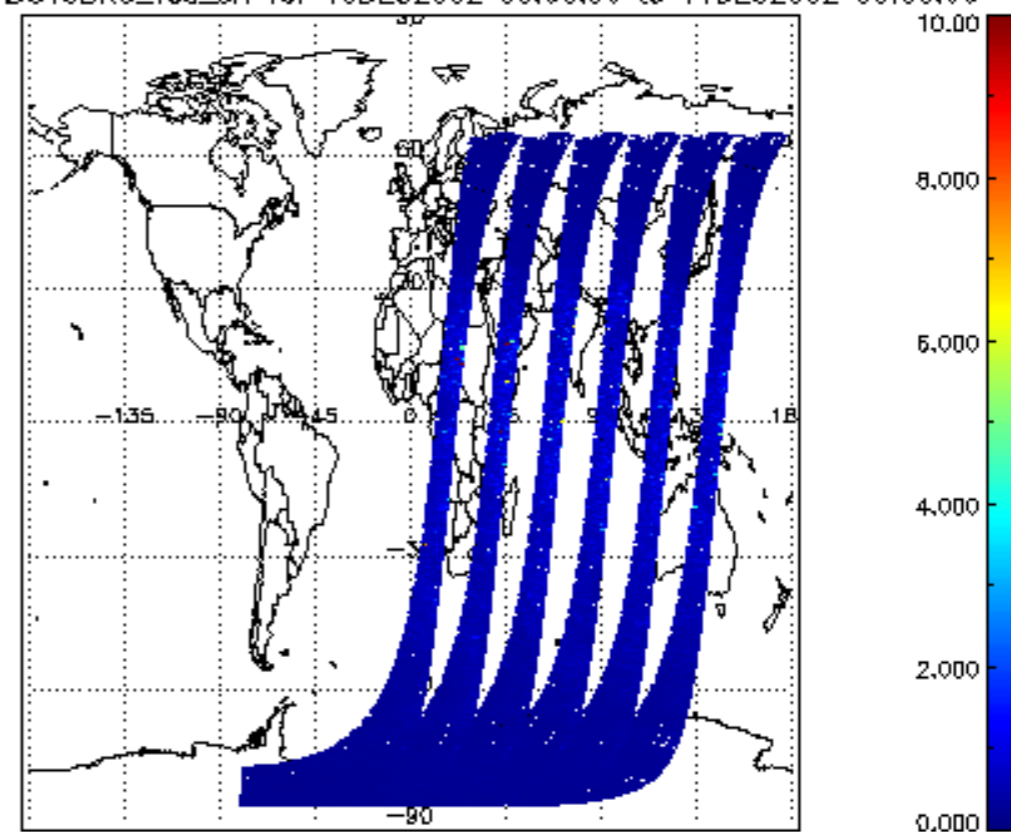




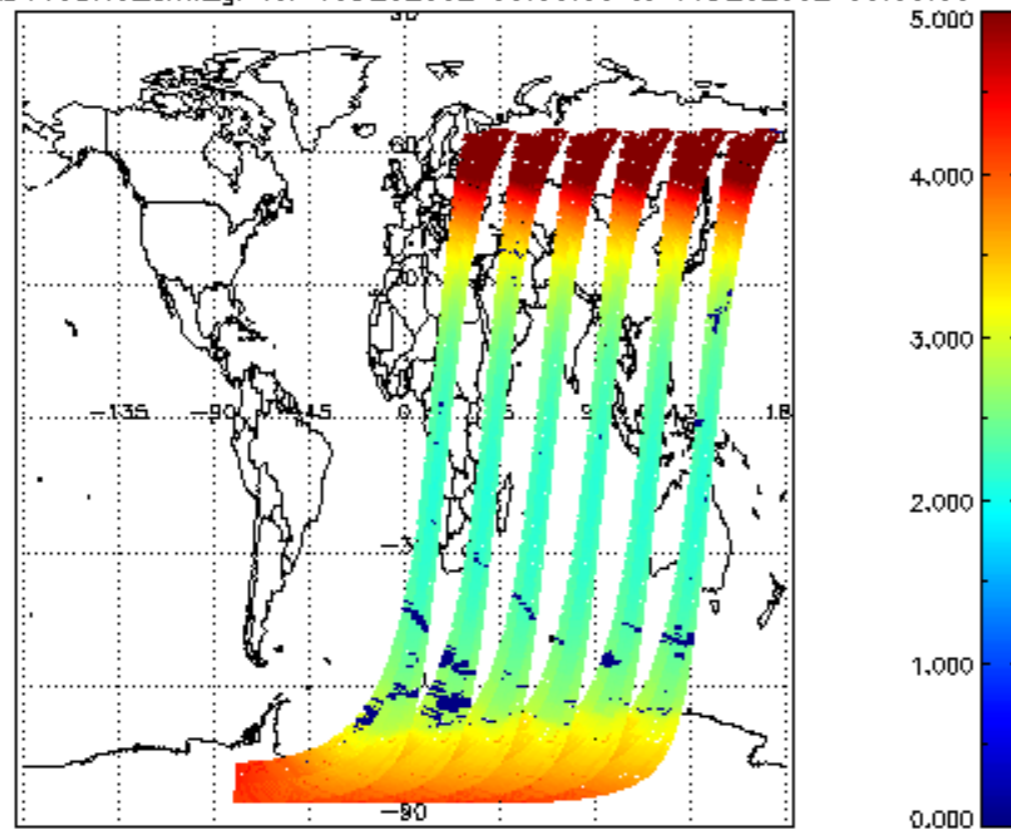
SCIOL2P_NADUV3BRO_vcd for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



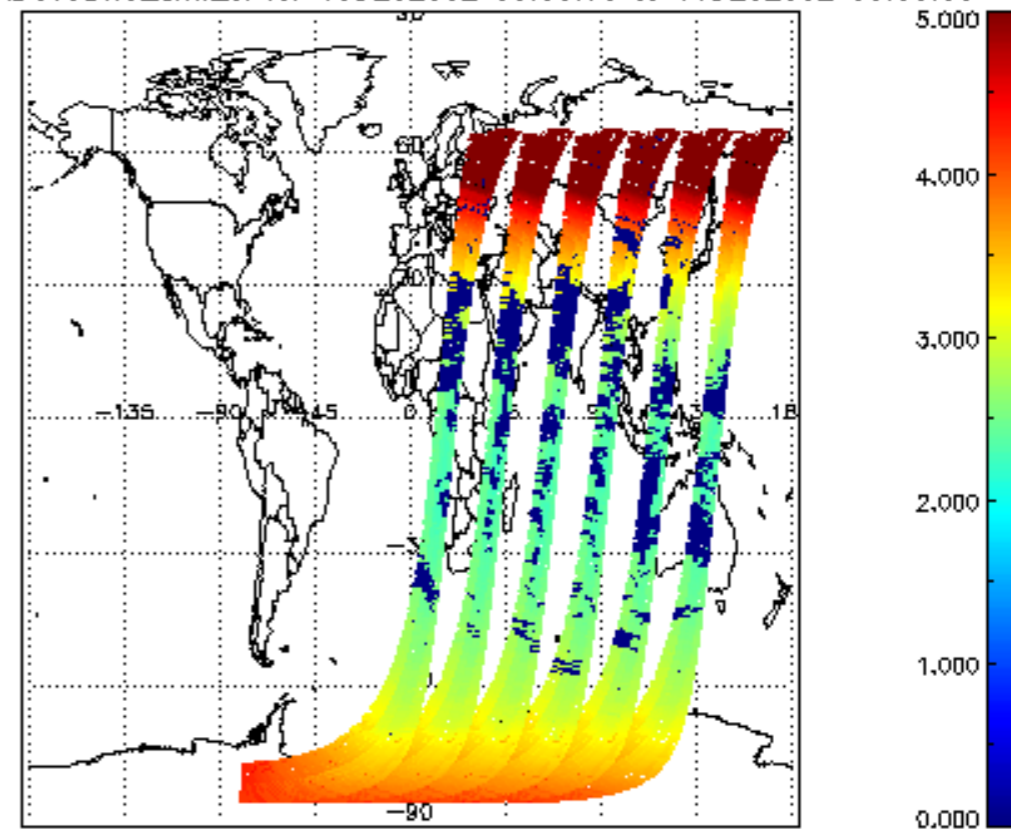
SCIOL2P_NADUV3BRO_vcd_err for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

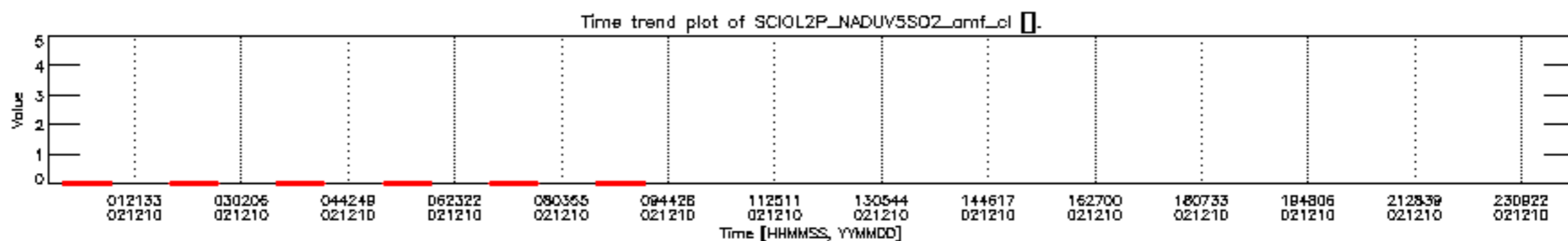
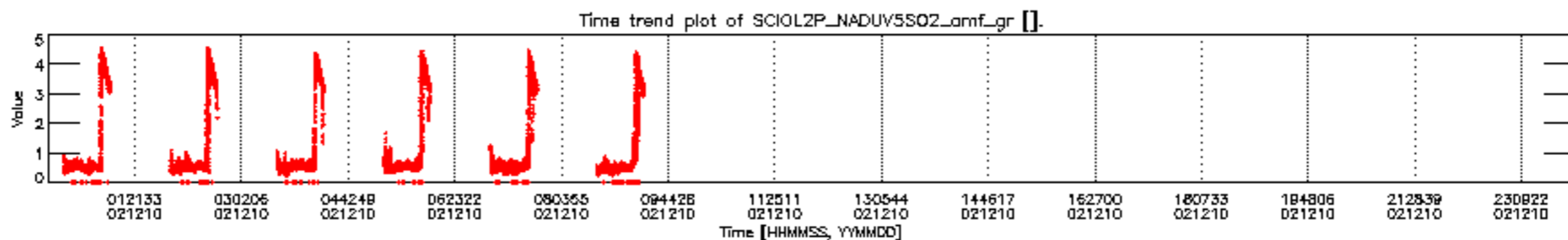
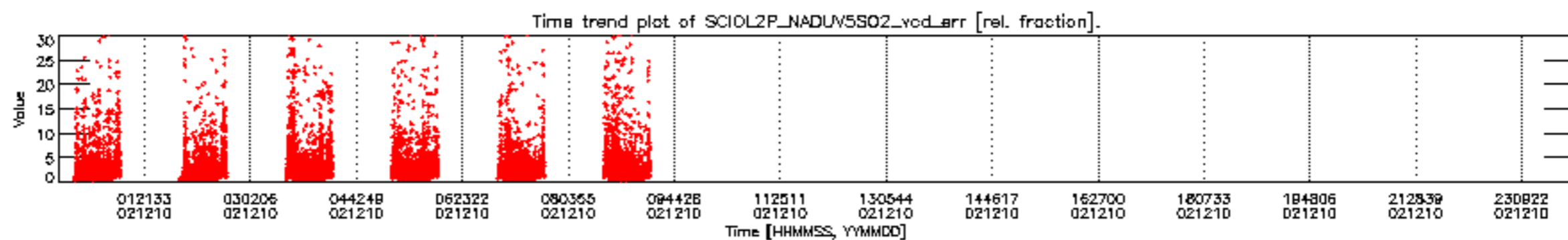
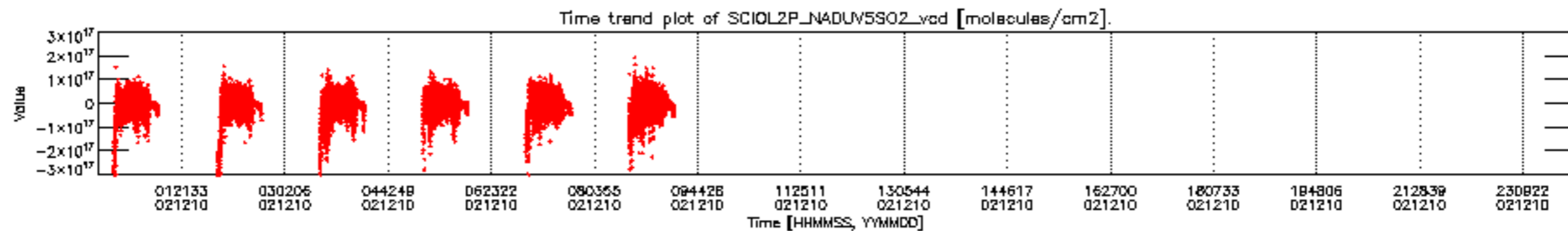


SCIOL2P_NADUV3BRO_amf_gr for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

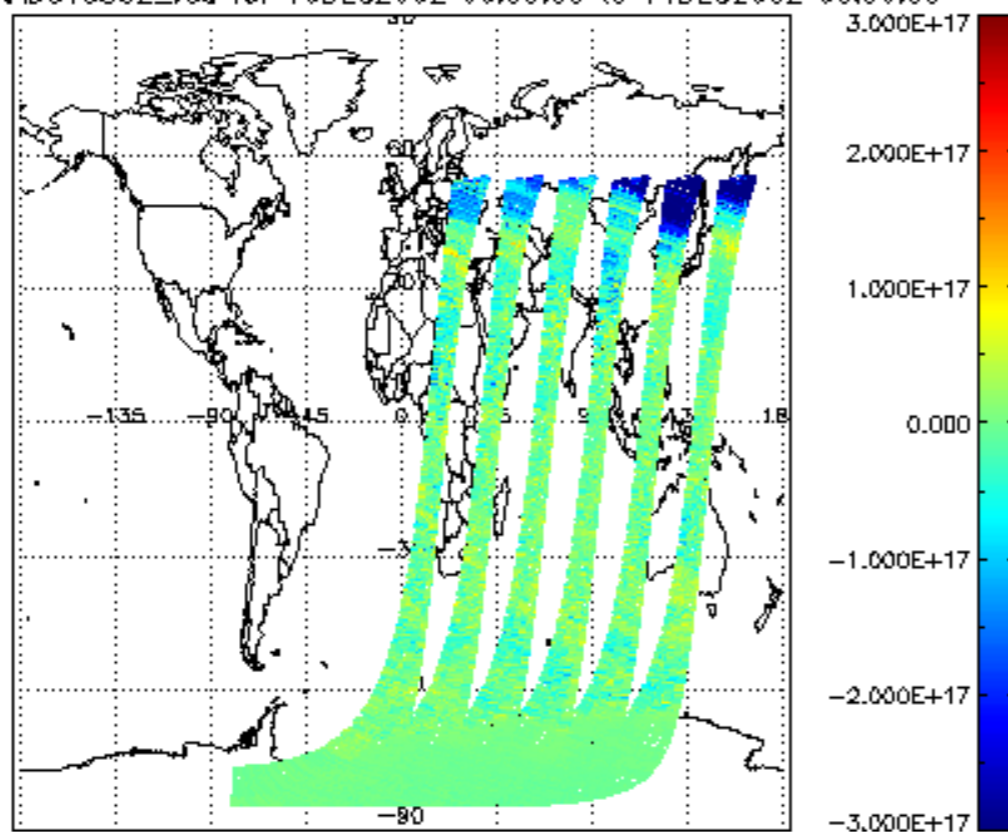


SCIOL2P_NADUV3BRO_amf_cl for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

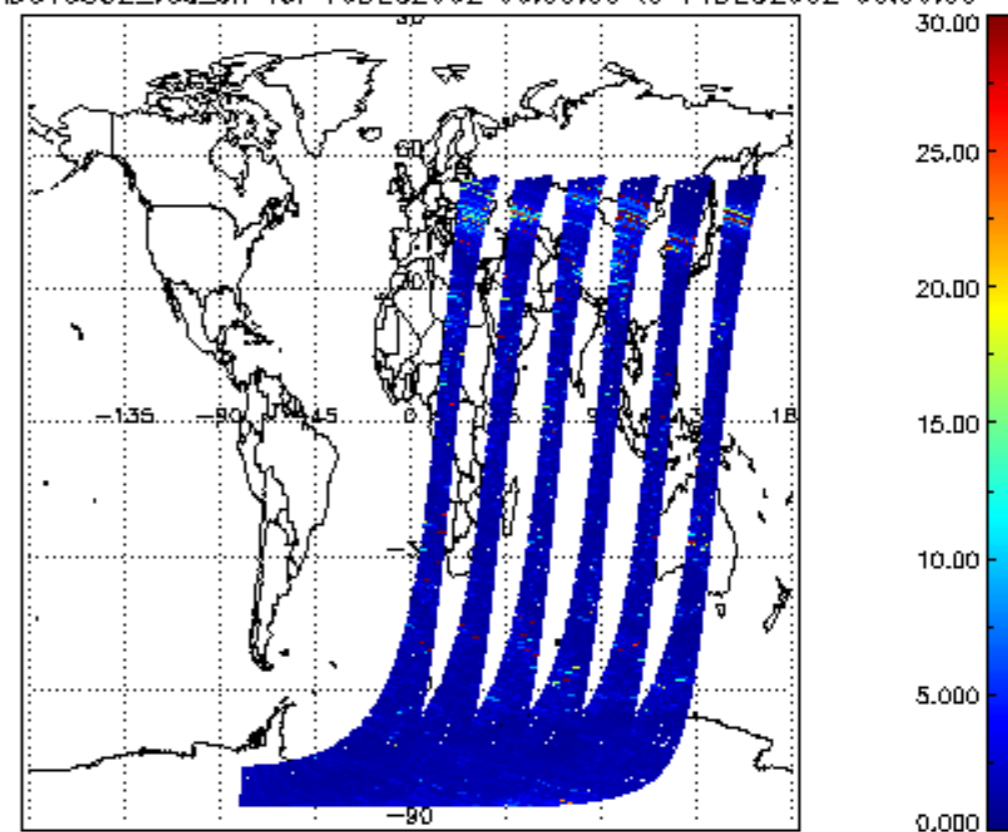




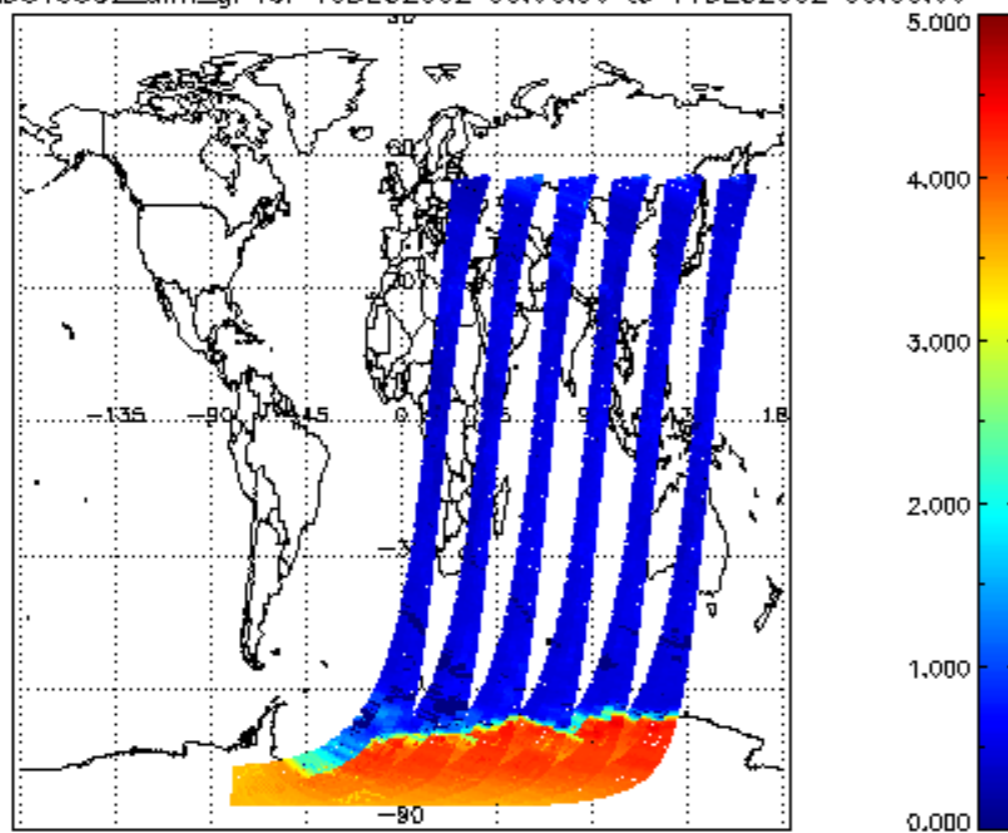
SCIOL2P_NADUV5S02_vcd for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



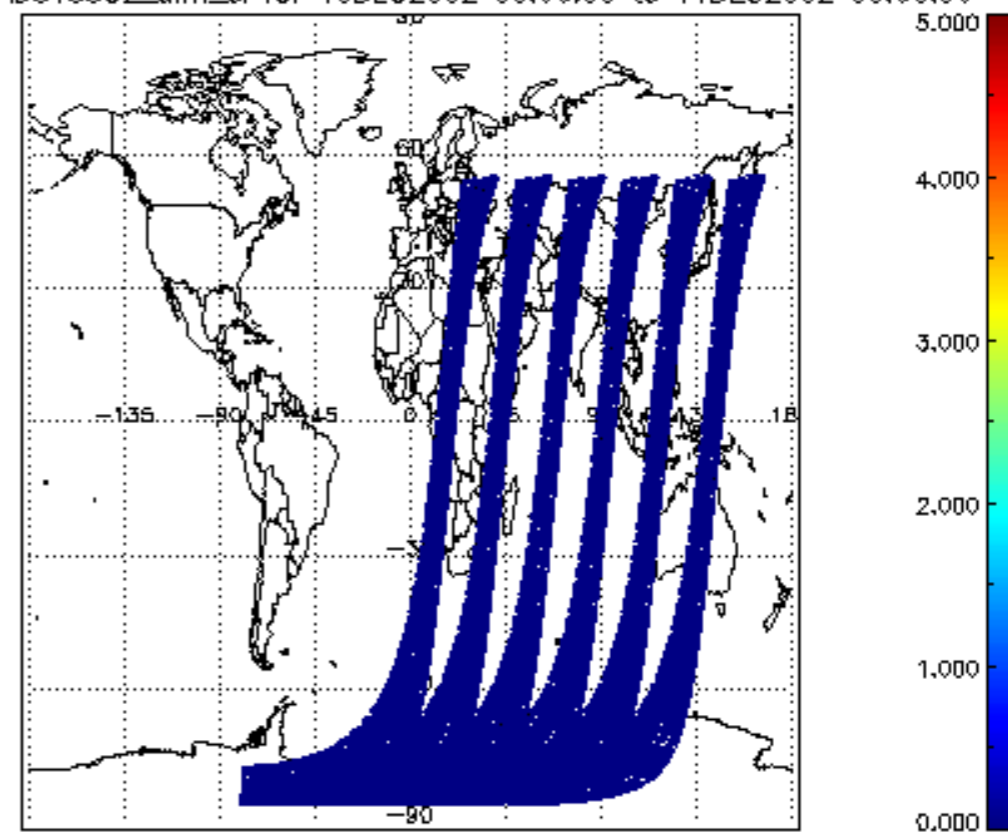
SCIOL2P_NADUV5S02_vcd_err for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

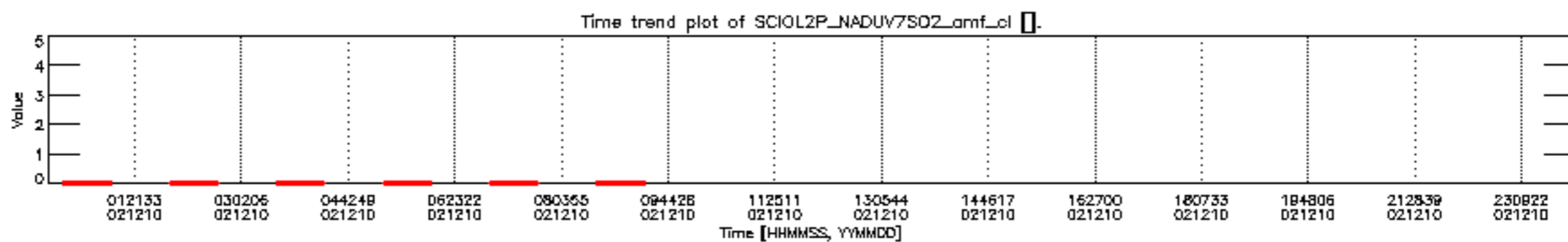
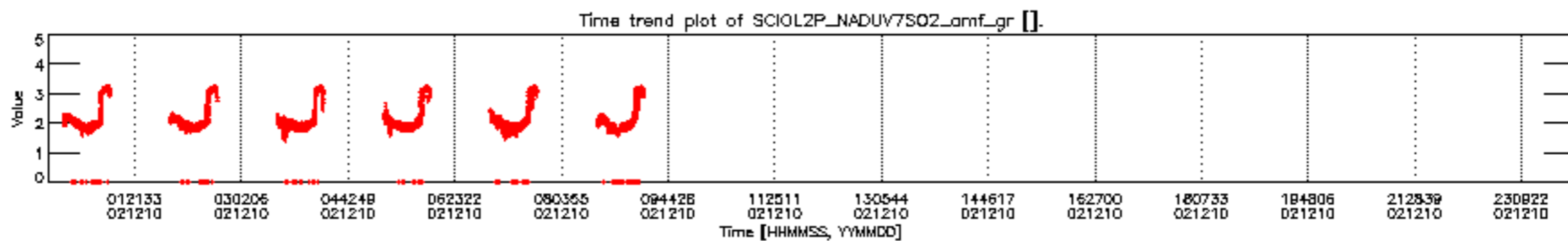
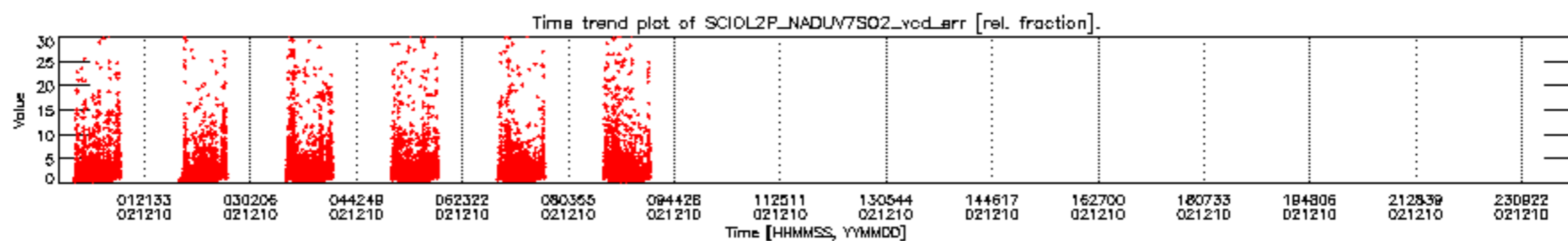
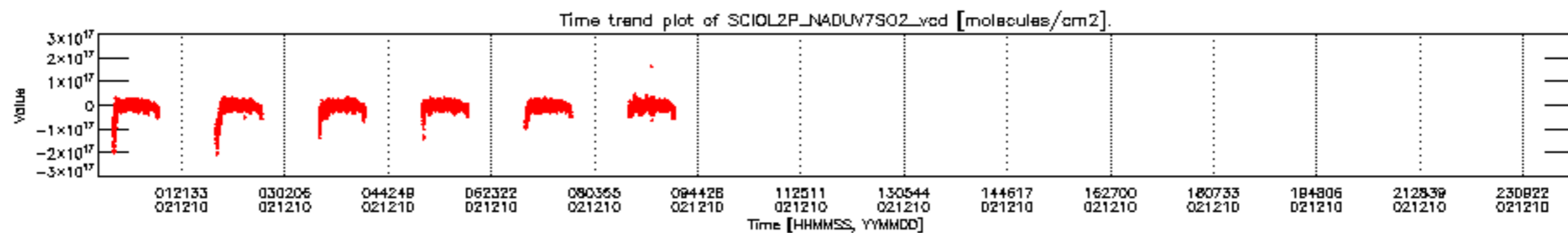


SCIOL2P_NADUV5S02_amf_gr for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

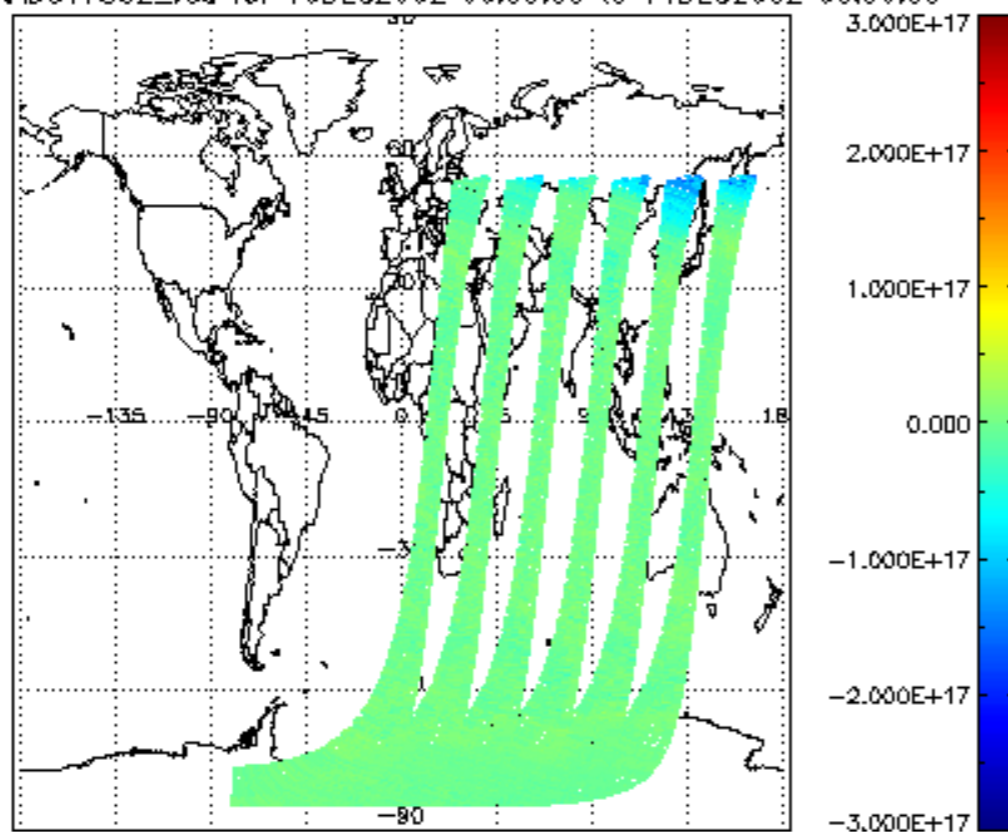


SCIOL2P_NADUV5S02_amf_cl for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

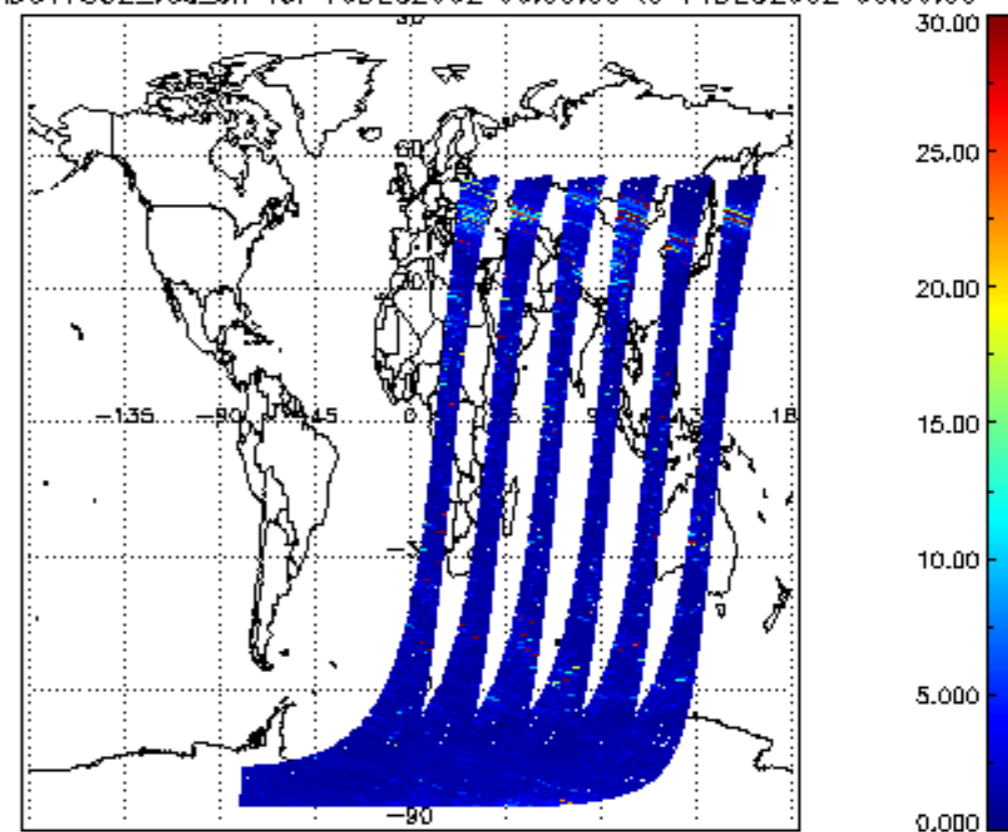




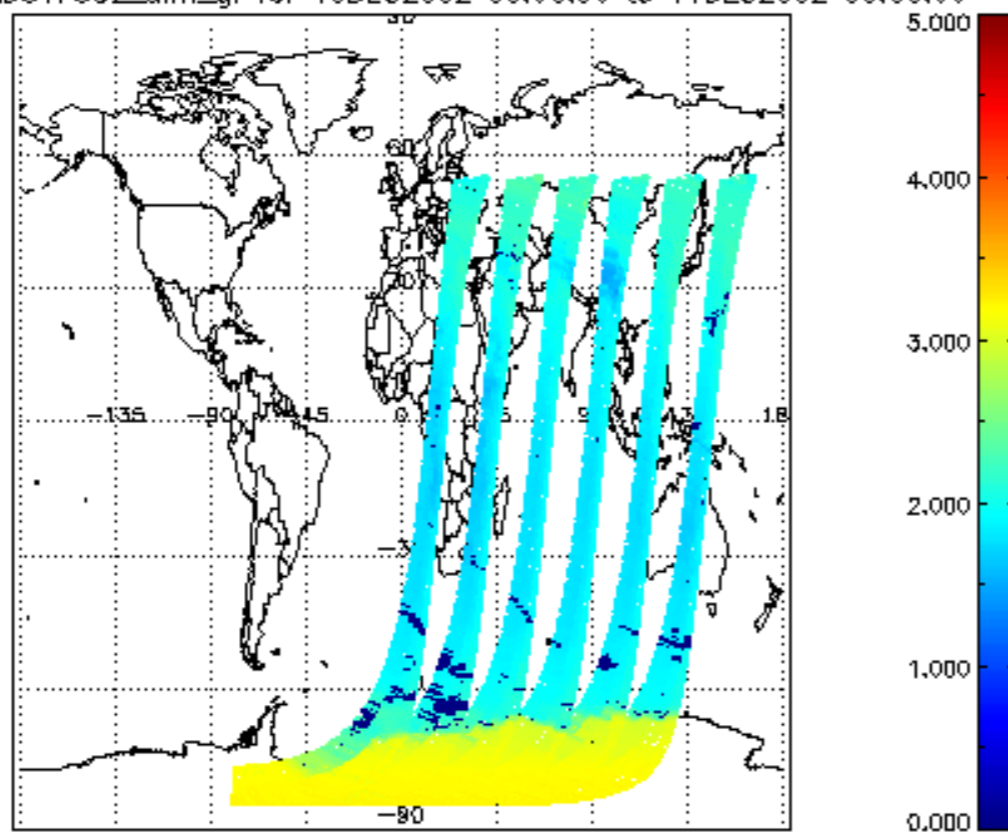
SCIOL2P_NADUV7S02_vcd for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



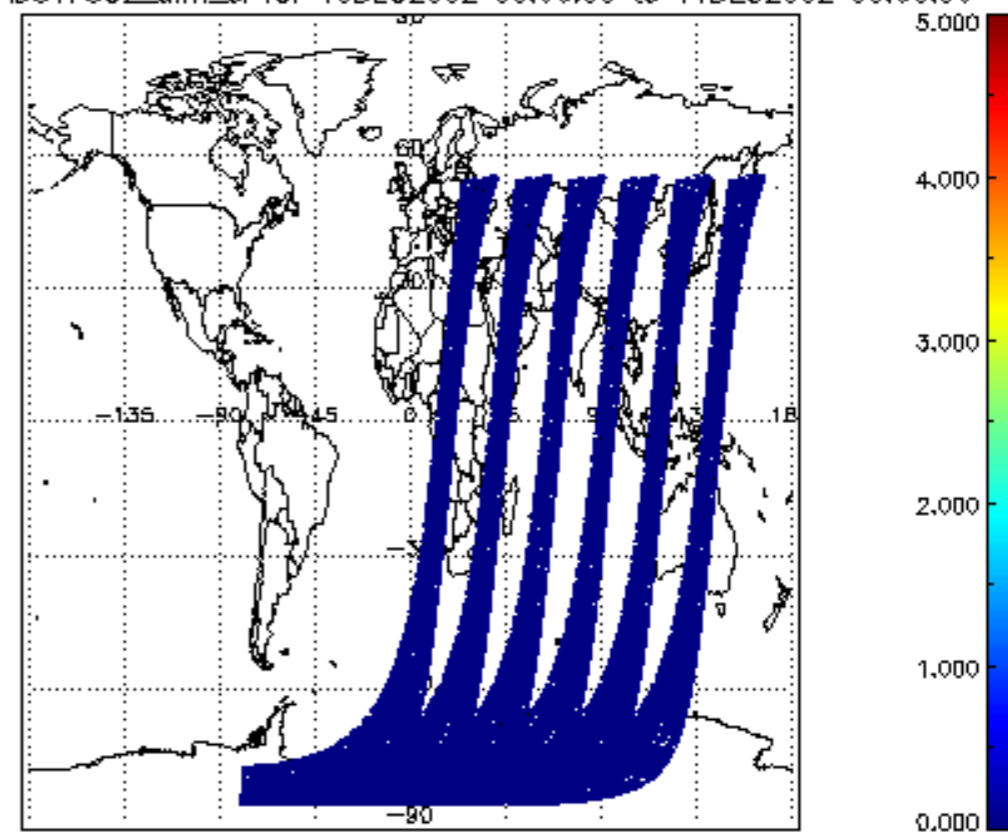
SCIOL2P_NADUV7S02_vcd_err for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

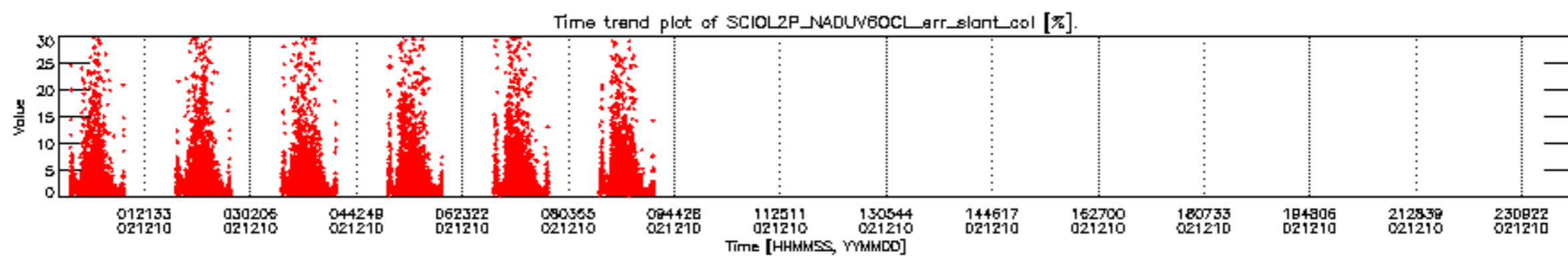
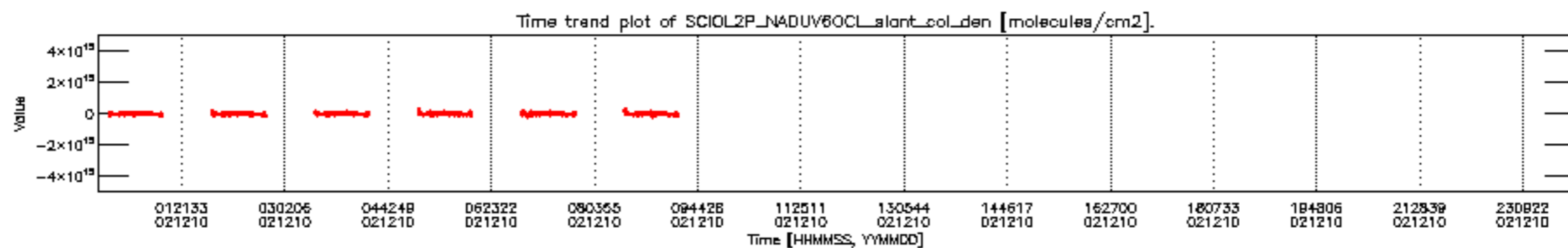


SCIOL2P_NADUV7S02_amf_gr for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

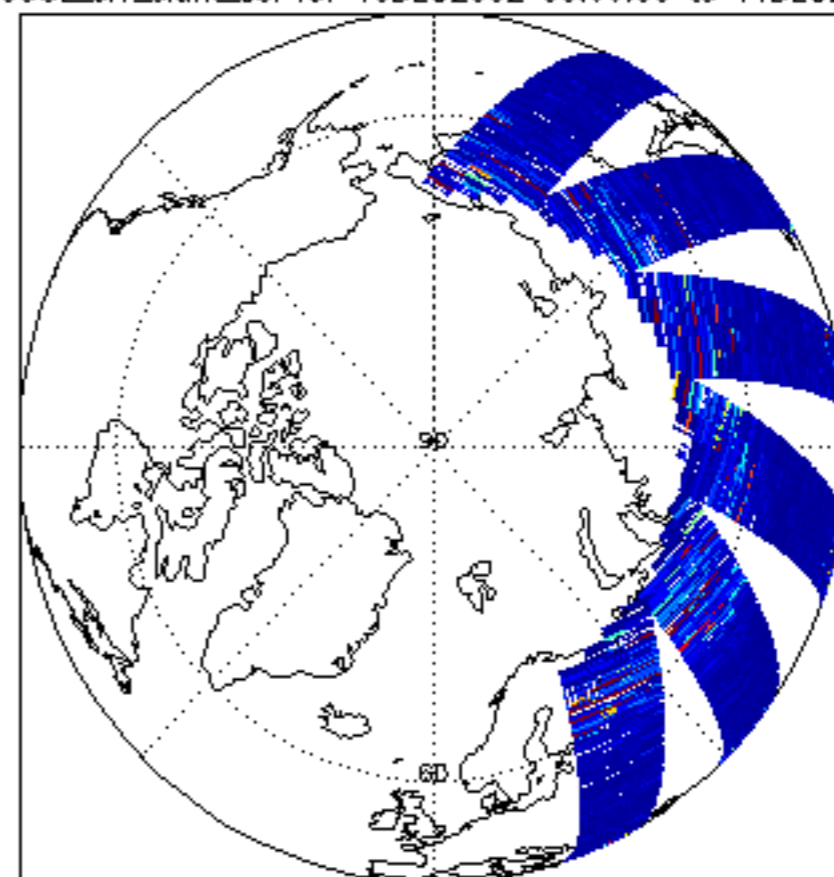
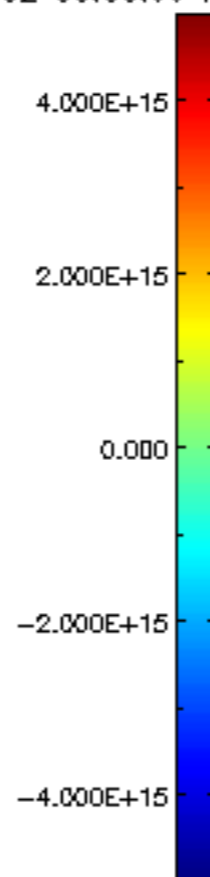
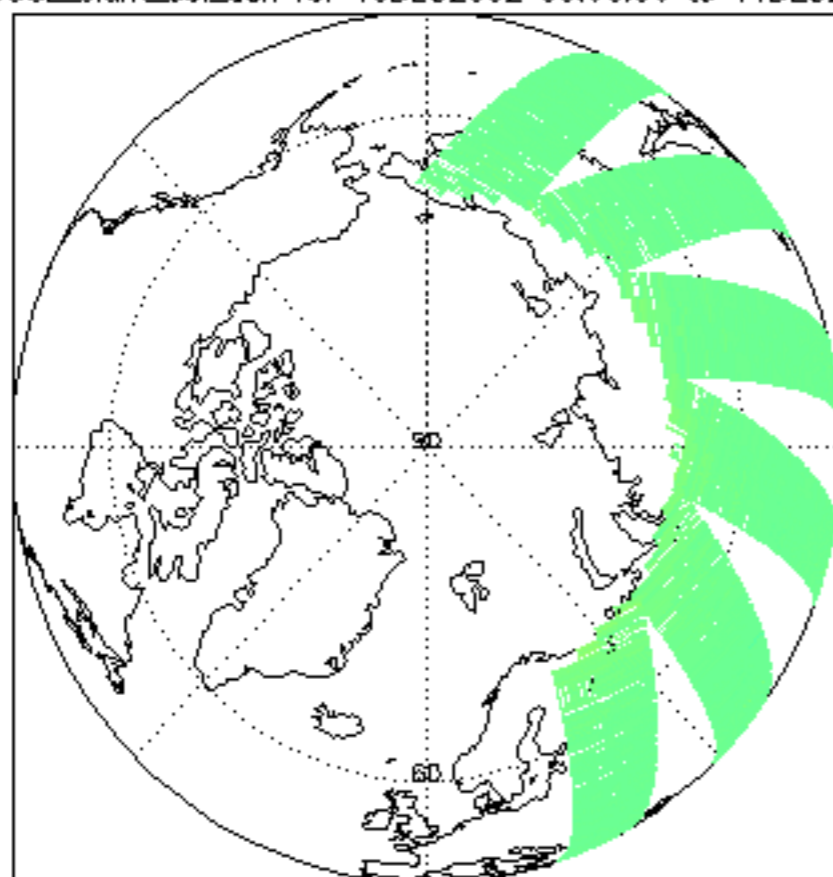


SCIOL2P_NADUV7S02_amf_cl for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

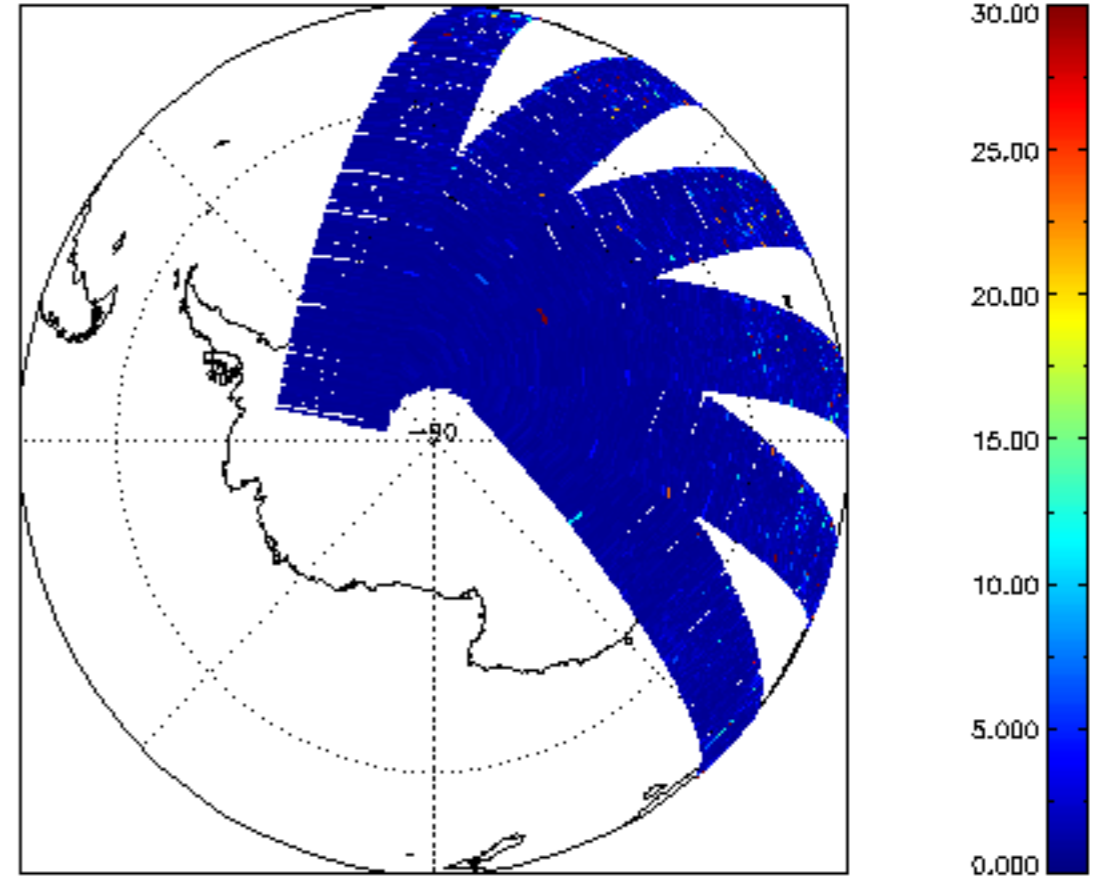
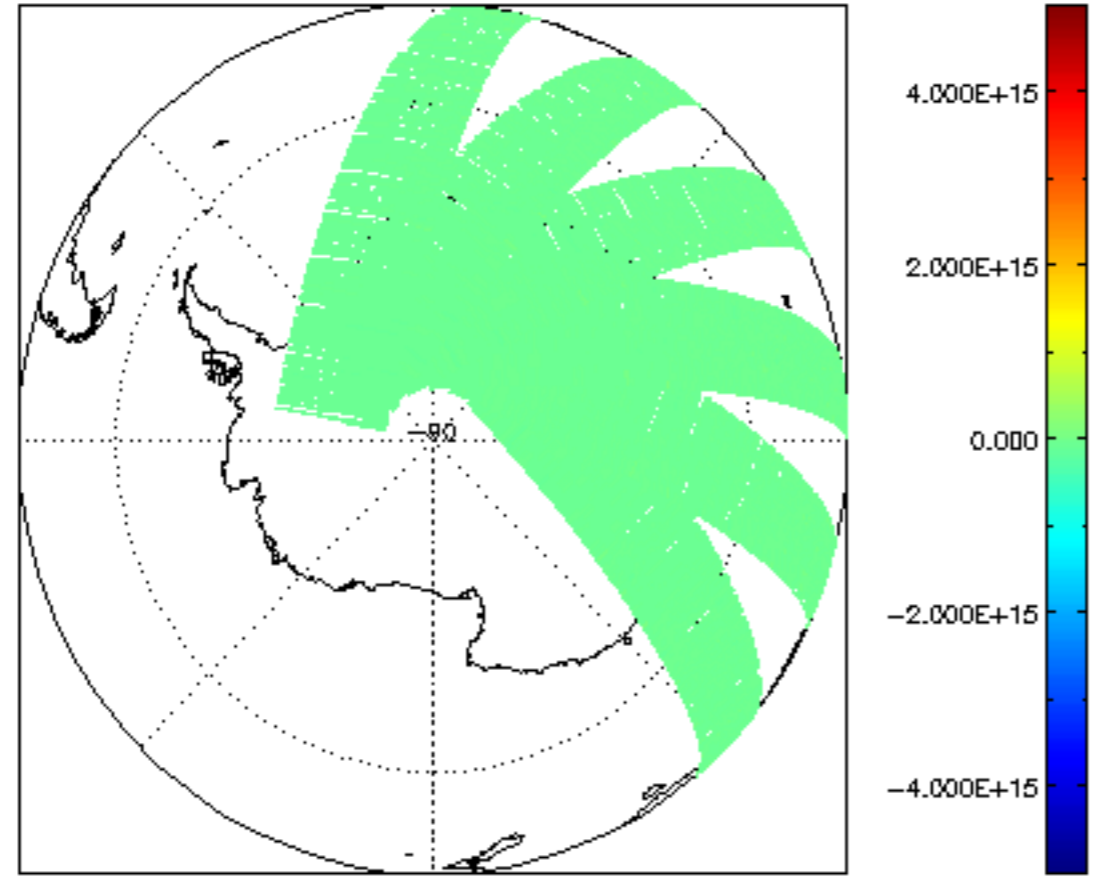


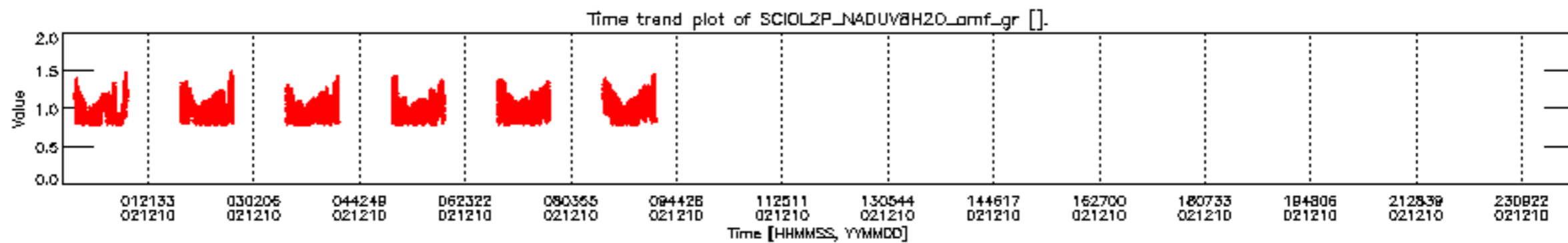
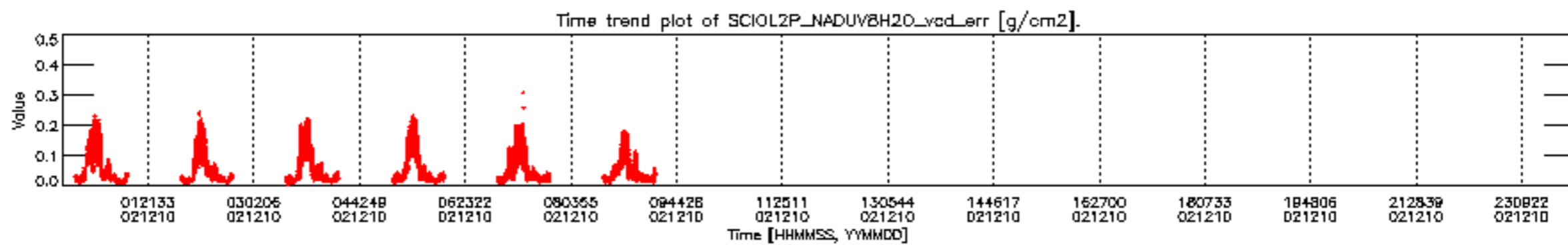
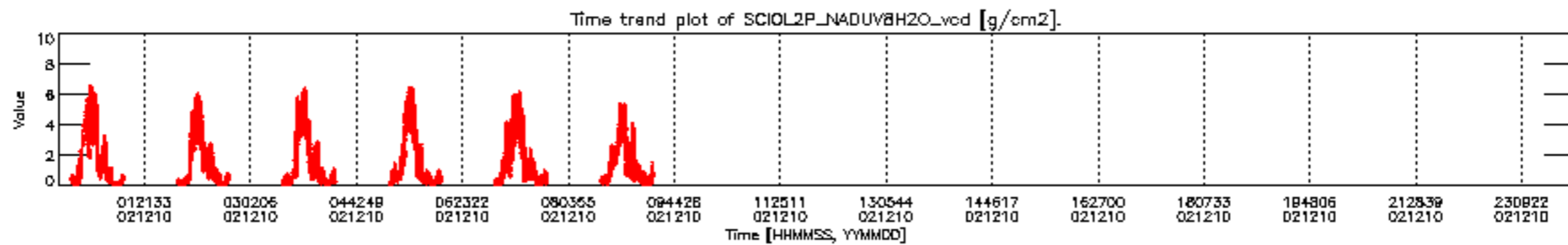


CIOL2P_NADUV60CL_slant_col_den for 10DEC2002 00:00:00 to 11DEC2002 00:00:00 np; CIOL2P_NADUV60CL_err_slant_col for 10DEC2002 00:00:00 to 11DEC2002 00:00:00 np

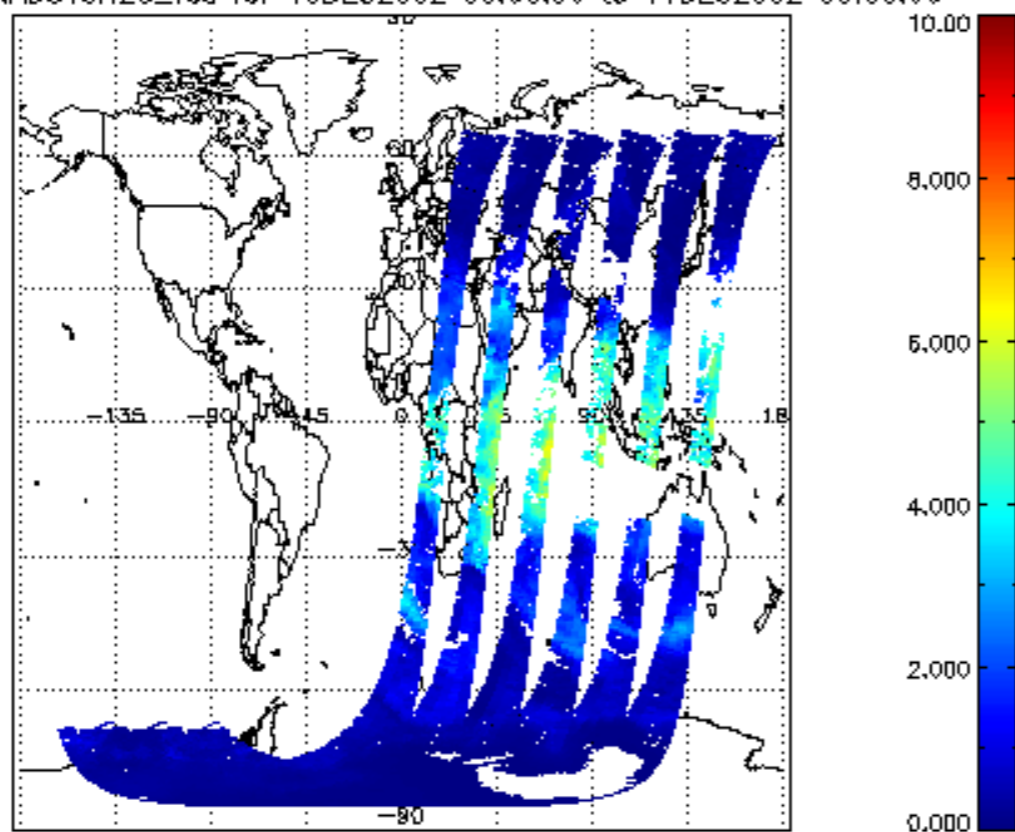


CIOL2P_NADUV6OCL_slant_col_den for 10DEC2002 00:00:00 to 11DEC2002 00:00:00 sp iCIOL2P_NADUV6OCL_err_slant_col for 10DEC2002 00:00:00 to 11DEC2002 00:00:00 sp

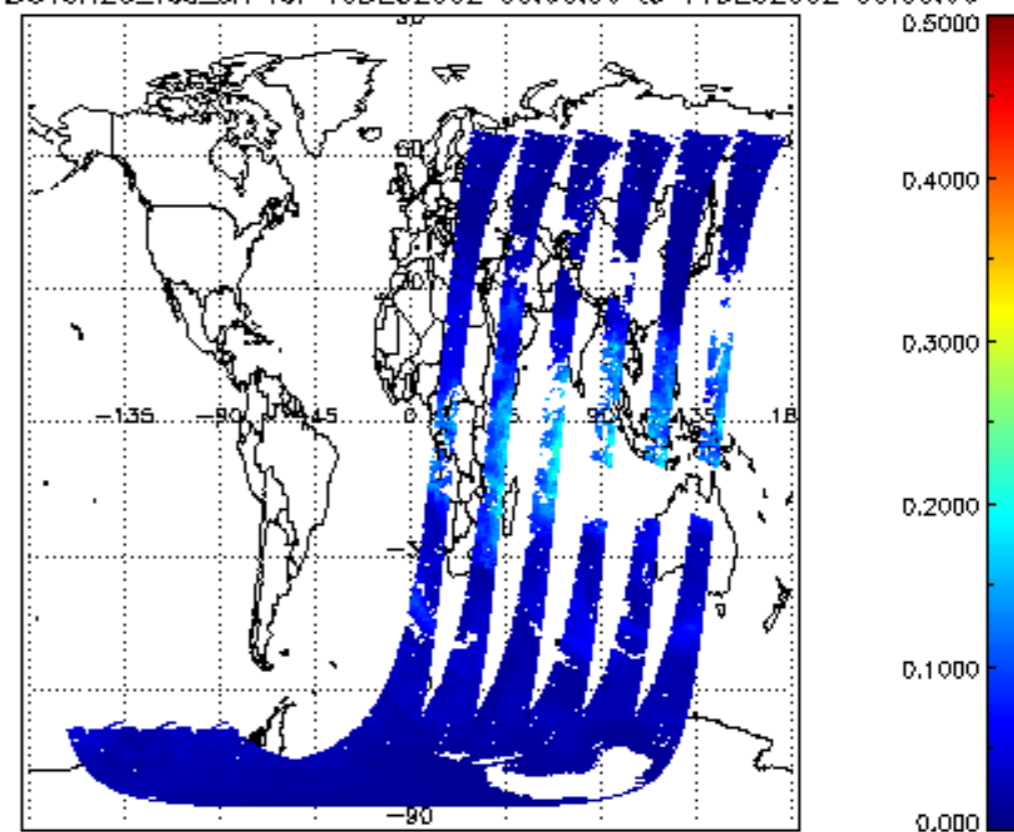




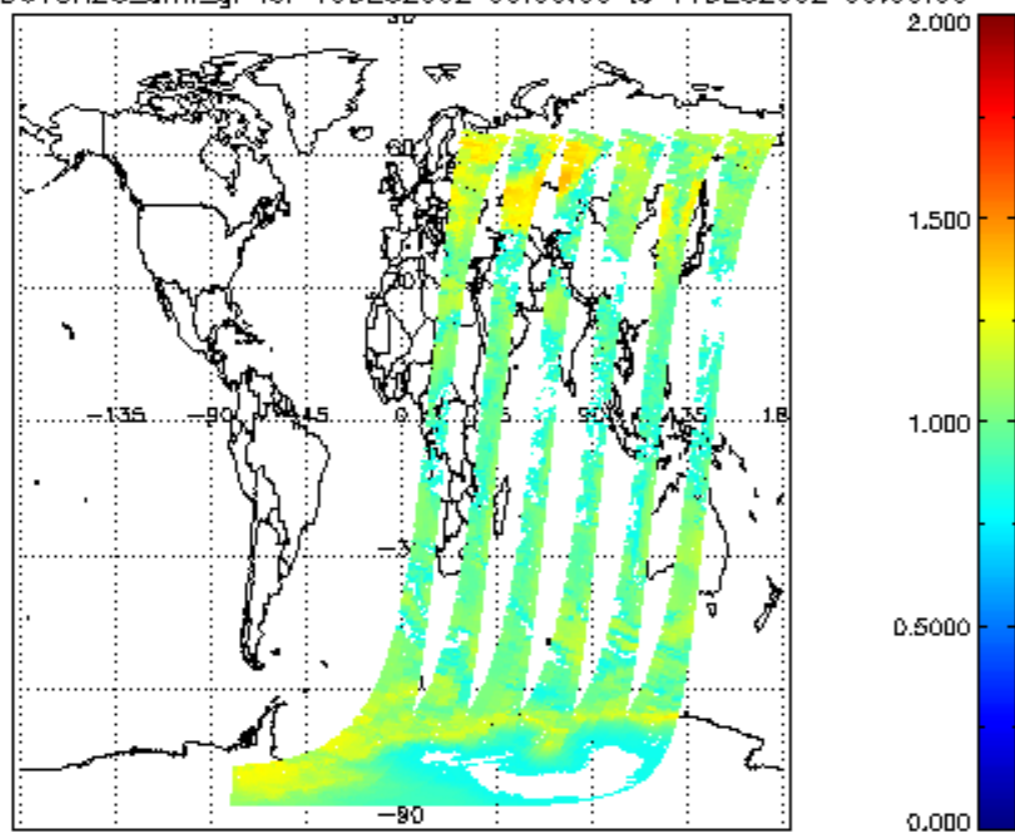
SCIOL2P_NADUV8H2O_vcd for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

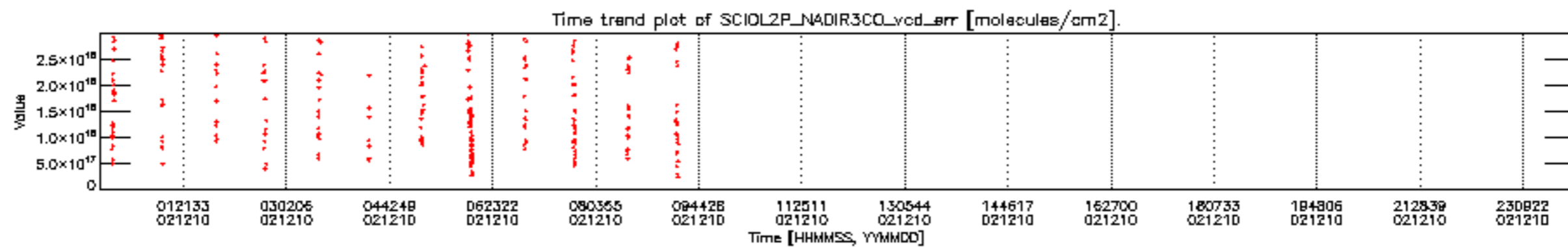
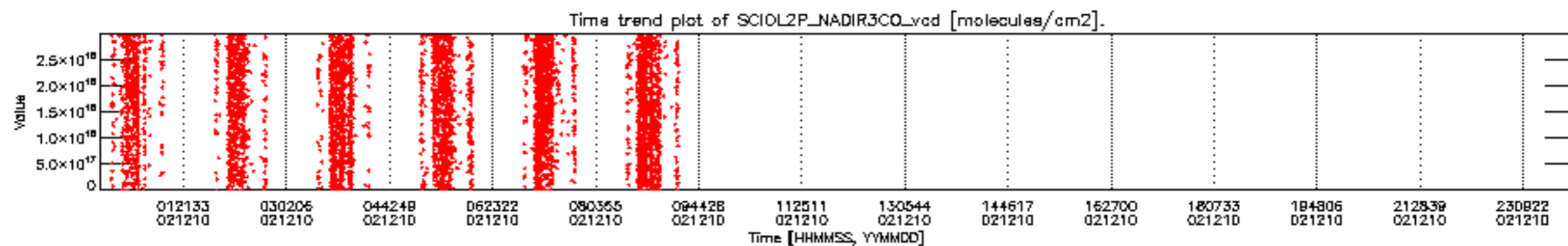


SCIOL2P_NADUV8H2O_vcd_err for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

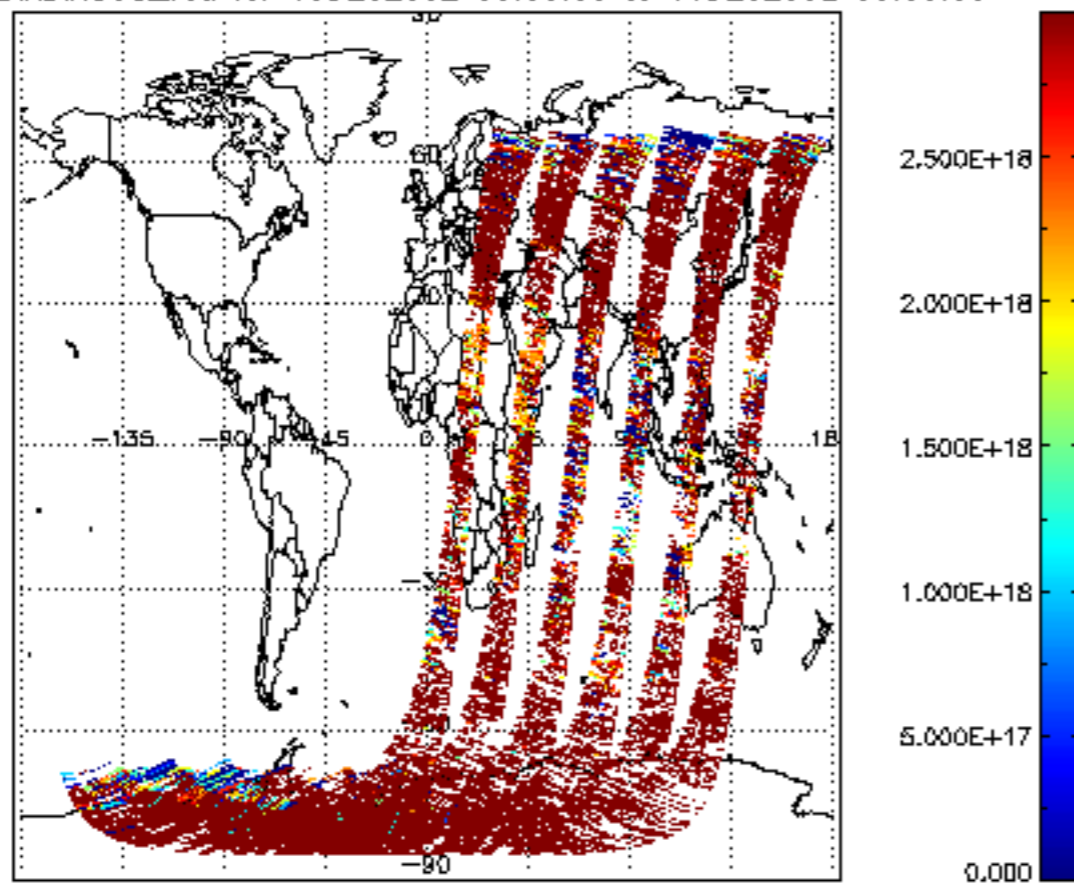


SCIOL2P_NADUV8H2O_amf_gr for 10DEC2002 00:00:00 to 11DEC2002 00:00:00

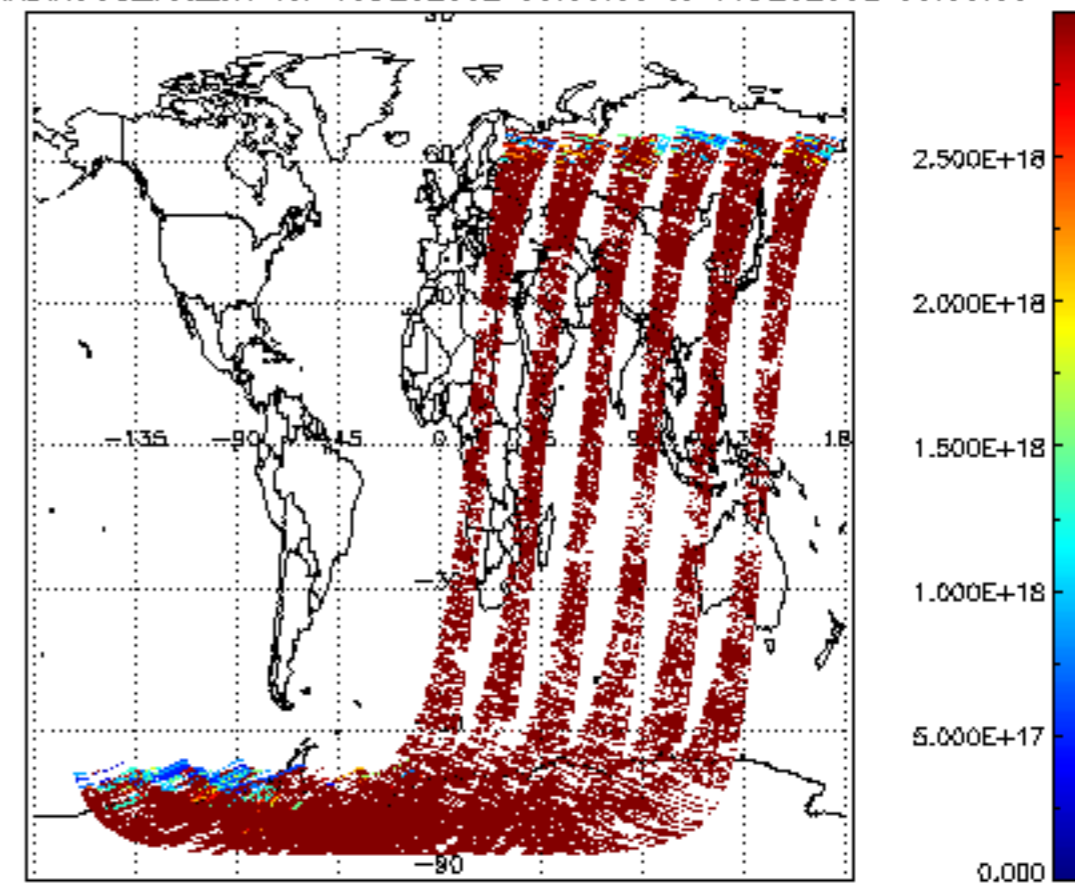




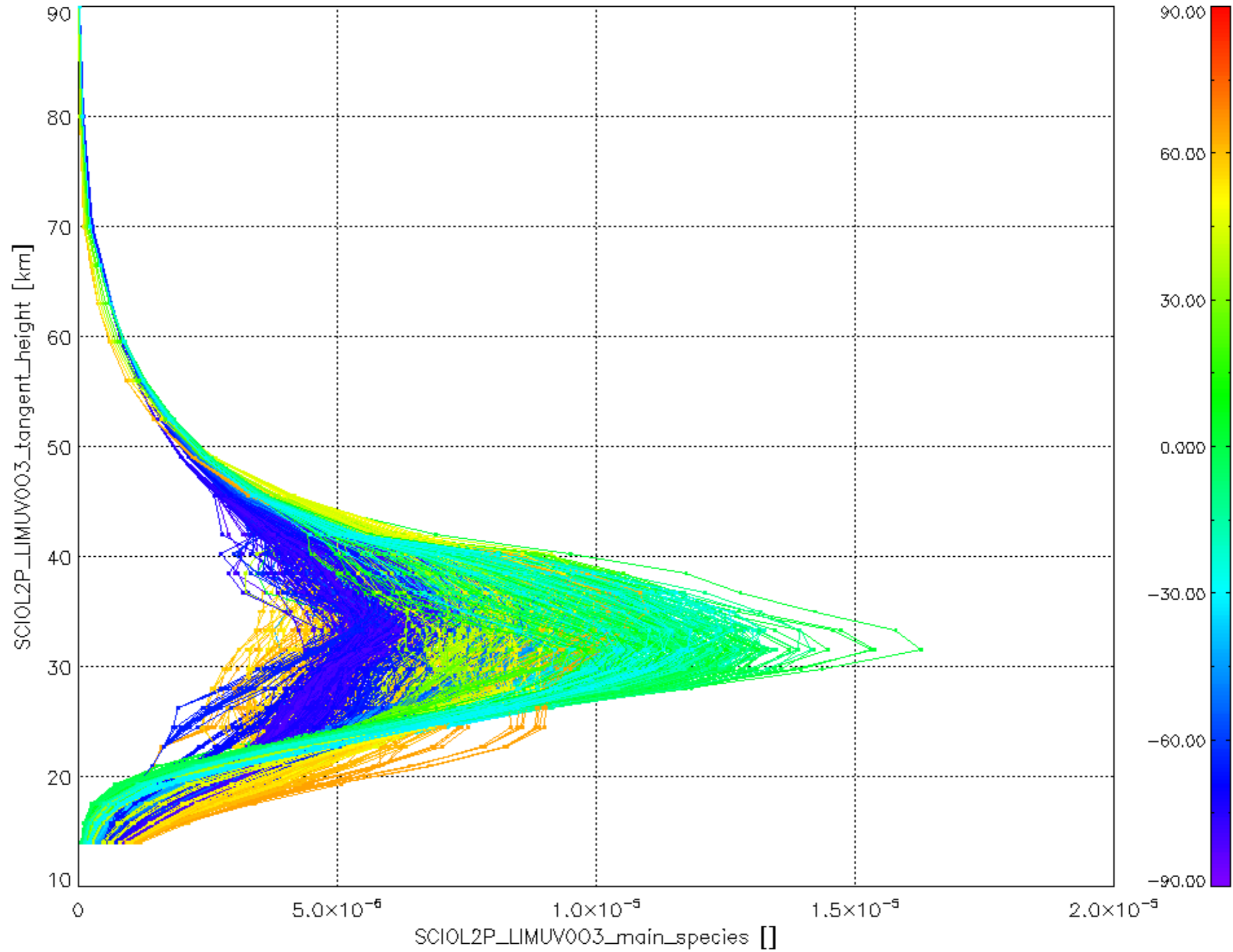
SCIOL2P_NADIR3CO_vcd for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



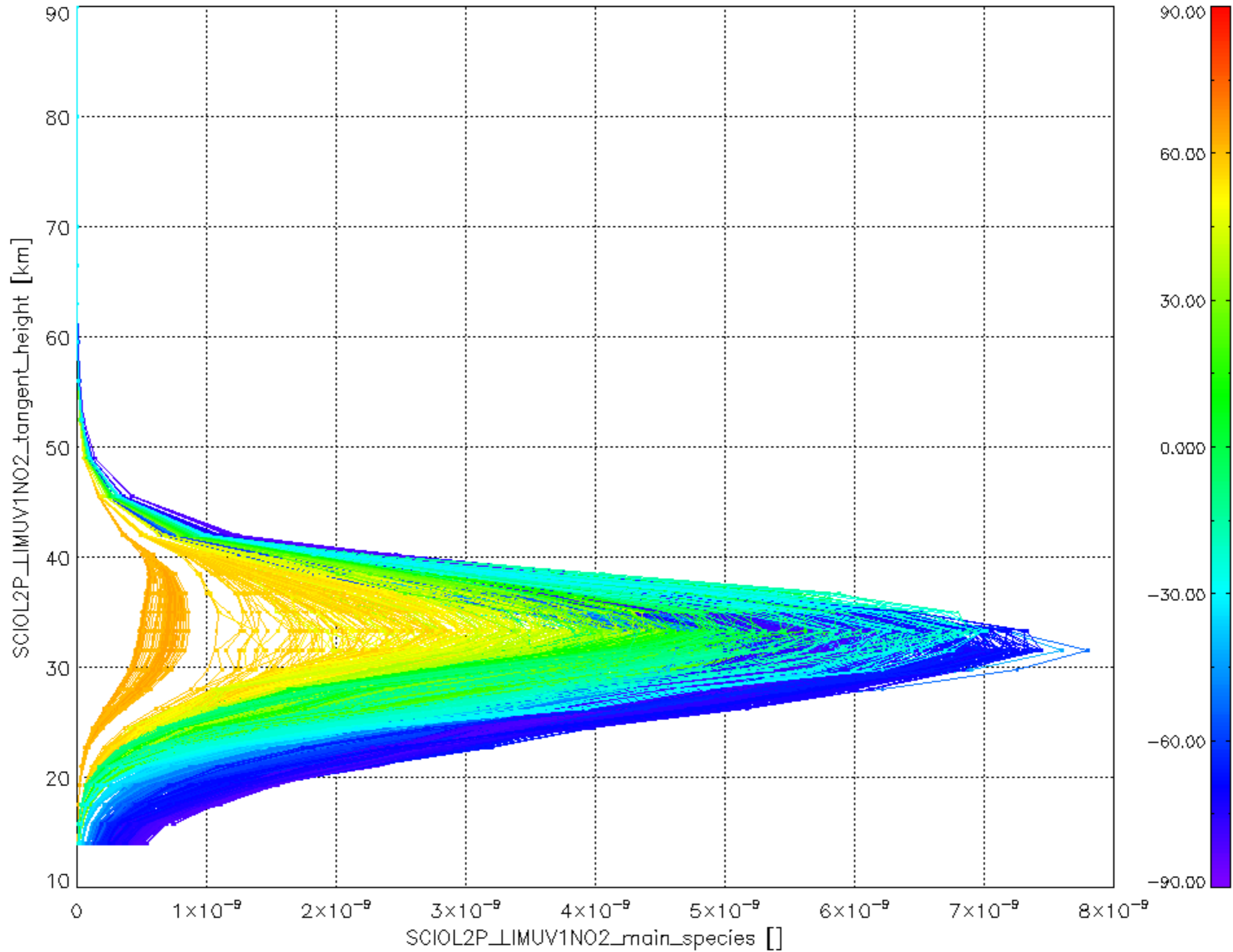
SCIOL2P_NADIR3CO_vcd_err for 10DEC2002 00:00:00 to 11DEC2002 00:00:00



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).

