

## 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 17:32:58
Data source version	SCIA-OL/5.02-W
Processing scope for products	08OCT2002 00:00:00 to 09OCT2002 00:00:00
Start time of first product within scope	08OCT2002 01:19:33
Stop time of last product within scope	09OCT2002 00:06:20
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	<a href="#">SCI_OL__2PWDP A20021008_011933_000034492010_00103_03163_2024.N1</a>	08OCT2002 01:19:33	08OCT2002 02:17:03	0	GOOD
1	<a href="#">SCI_OL__2PWDP A20021008_030010_000035332010_00104_03164_2025.N1</a>	08OCT2002 03:00:10	08OCT2002 03:59:03	0	GOOD
2	<a href="#">SCI_OL__2PWDP A20021008_044046_000034492010_00105_03165_2026.N1</a>	08OCT2002 04:40:46	08OCT2002 05:38:16	0	GOOD
3	<a href="#">SCI_OL__2PWDP A20021008_062123_000035332010_00106_03166_2027.N1</a>	08OCT2002 06:21:23	08OCT2002 07:20:16	0	GOOD
4	<a href="#">SCI_OL__2PWDP A20021008_080159_000034492010_00107_03167_2028.N1</a>	08OCT2002 08:01:59	08OCT2002 08:59:29	0	GOOD

5	SCI_OL__2PWDP20021008_094236_000035332010_00108_03168_2029.N1	08OCT2002 09:42:36	08OCT2002 10:41:29	0	GOOD
6	SCI_OL__2PWDP20021008_112312_000034492010_00109_03169_3051.N1	08OCT2002 11:23:12	08OCT2002 12:20:42	0	GOOD
7	SCI_OL__2PWDP20021008_130348_000035332010_00110_03170_2031.N1	08OCT2002 13:03:48	08OCT2002 14:02:42	0	GOOD
8	SCI_OL__2PWDP20021008_144425_000034492010_00111_03171_2032.N1	08OCT2002 14:44:25	08OCT2002 15:41:54	0	GOOD
9	SCI_OL__2PWDP20021008_162501_000035332010_00112_03172_2033.N1	08OCT2002 16:25:01	08OCT2002 17:23:54	0	GOOD
10	SCI_OL__2PWDP20021008_180538_000034492010_00113_03173_2034.N1	08OCT2002 18:05:38	08OCT2002 19:03:07	0	GOOD
11	SCI_OL__2PWDP20021008_194645_000035132010_00114_03174_2035.N1	08OCT2002 19:46:45	08OCT2002 20:45:19	0	GOOD
12	SCI_OL__2PWDP20021008_212711_000034492010_00115_03175_2036.N1	08OCT2002 21:27:11	08OCT2002 22:24:40	0	GOOD
13	SCI_OL__2PWDP20021008_230933_000034072010_00116_03176_2037.N1	08OCT2002 23:09:33	09OCT2002 00:06:20	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: 107108

Total number of cloud data DSRs with good quality flag (=0): 107108 (100.0 %)

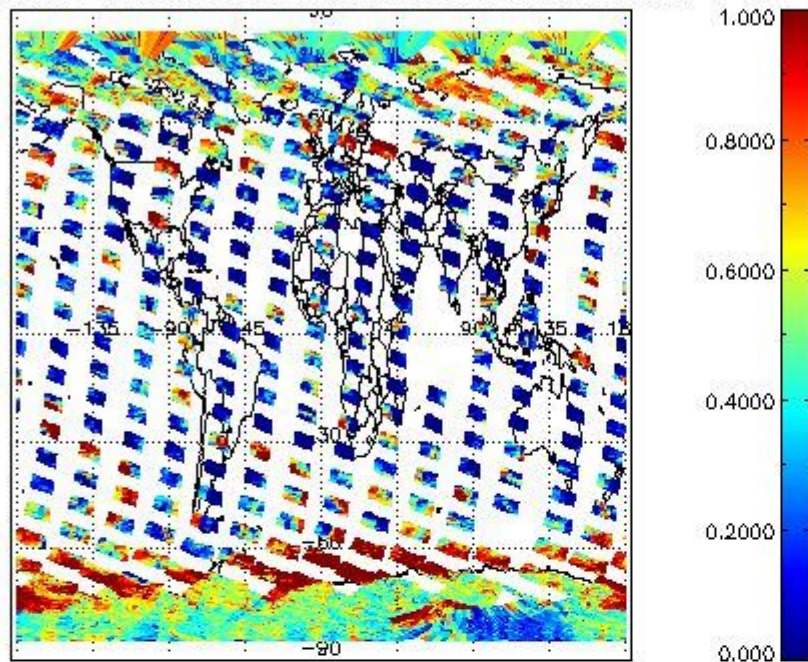
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	107108	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	107108	0.22219	0.25000	0.12500	1.0000	0.098869	s
CL_FRAC	107108	0.42762	0.40610	0.0000	1.0000	0.34015	
CL_FRAC_ERR	107108	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	107108	7.1101	8.0000	4.0000	32.000	3.1638	
PMD_READ_CL[0]	107108	0.87849	0.0000	0.0000	32.000	2.1219	-
PMD_READ_CL[1]	107108	1.7931	0.0000	0.0000	27.000	2.9474	-
CL_TOP_HEIGHT	95376	3.3769	1.9290	0.0000	17.000	3.7051	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	95376	51.863	42.229	0.0000	101.00	40.394	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	107108	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	107108	11001010	11000100	11000000	11100000	3331.4	
AERO_ABSO_IND	107108	0.14398	0.0000	0.0000	14.620	0.35721	
AERO_IND_DIAG	107108	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	107108	01101100	11000000	00000000	11000000	24367.	

#### Time and geolocation plots:

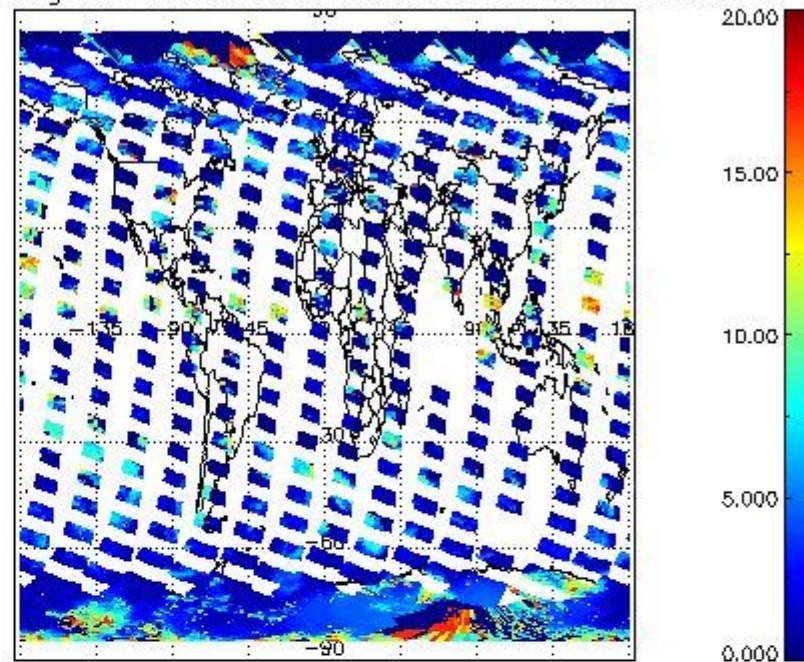
Plots are available for the following parameters:

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

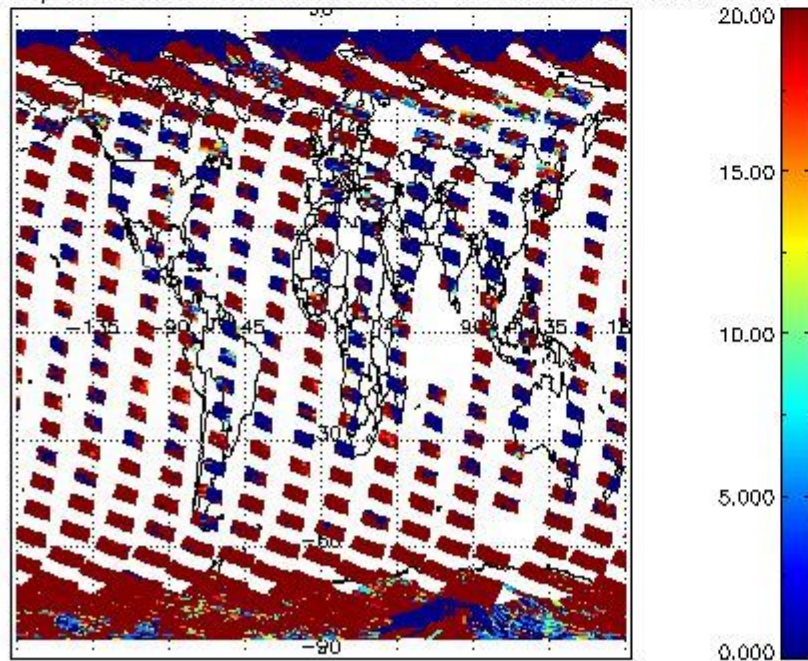
cLfrac for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



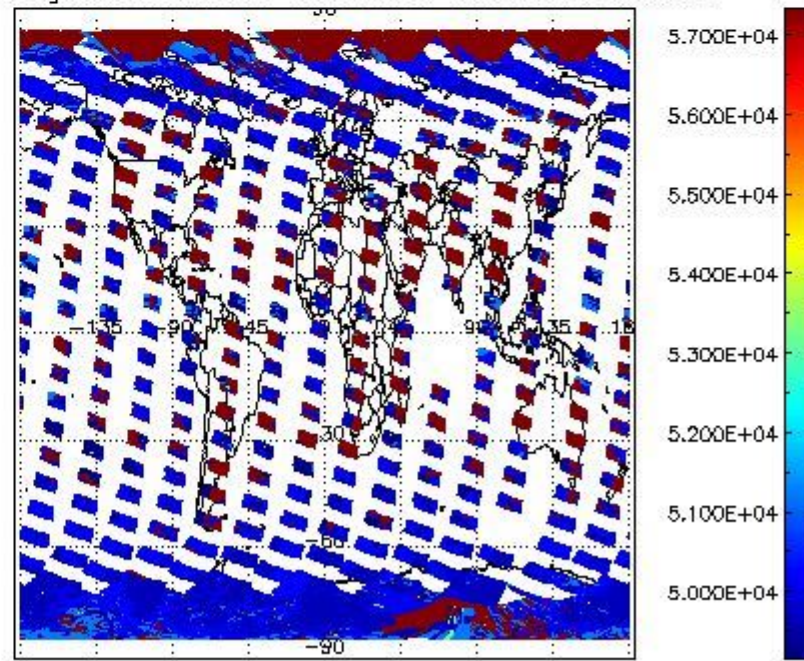
cL\_top\_height for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



cL\_opt\_depth for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



cloud\_flags for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



## 2.2.2 Nadir

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

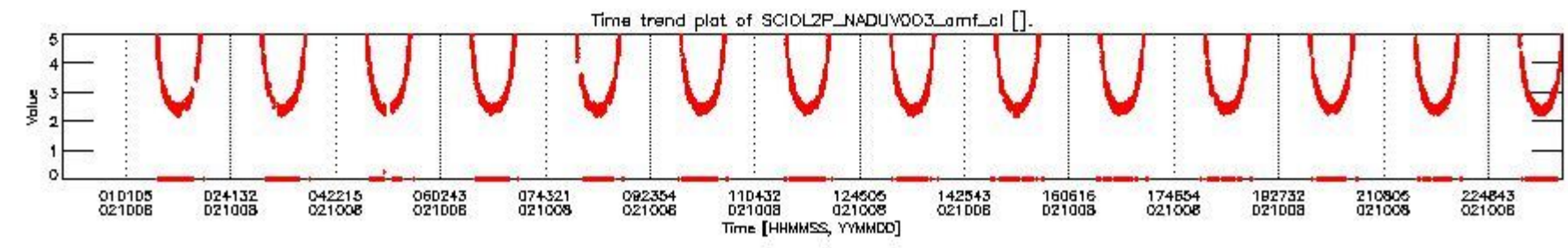
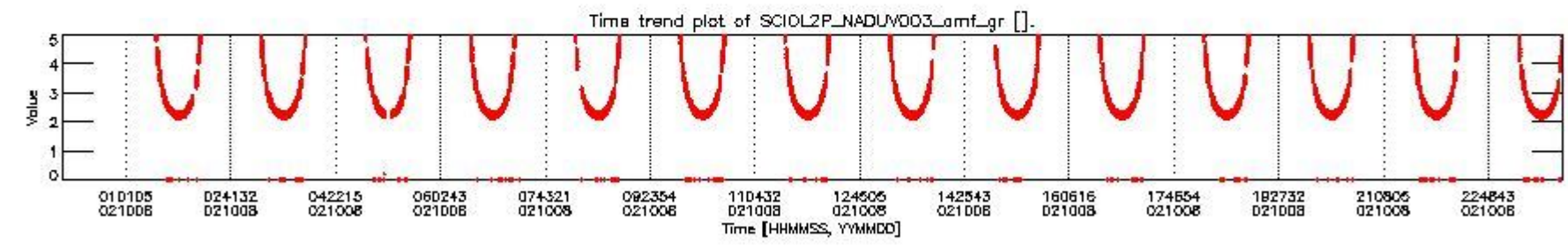
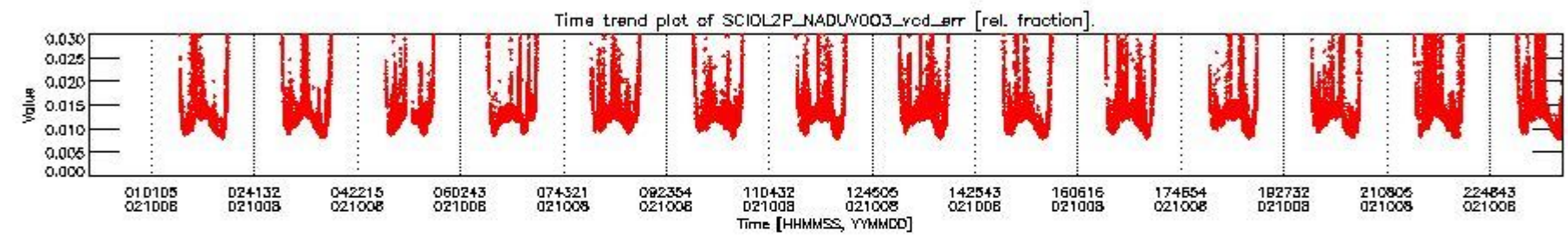
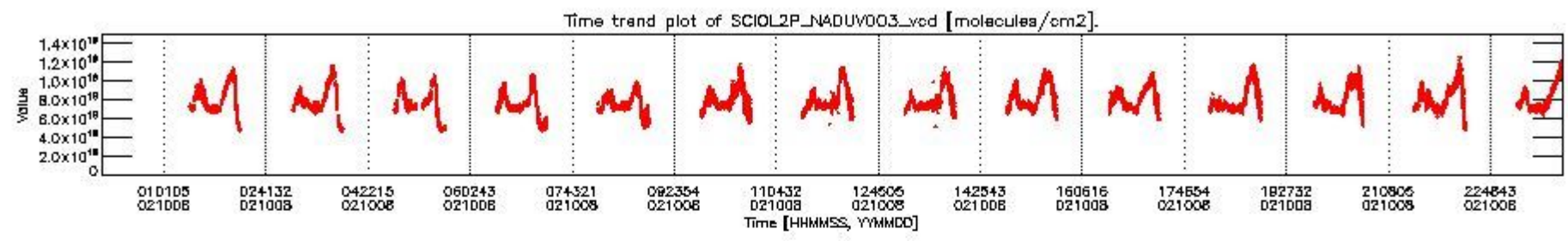
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

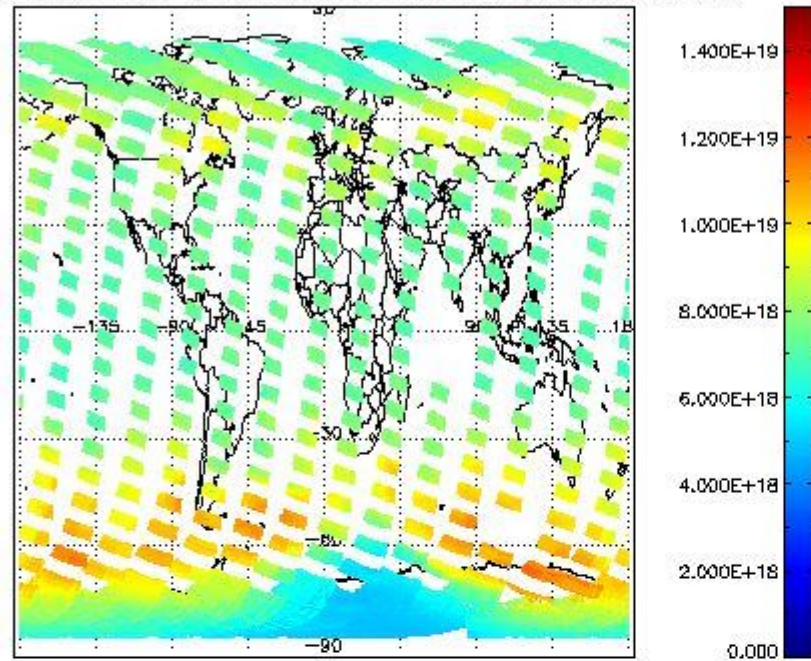
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

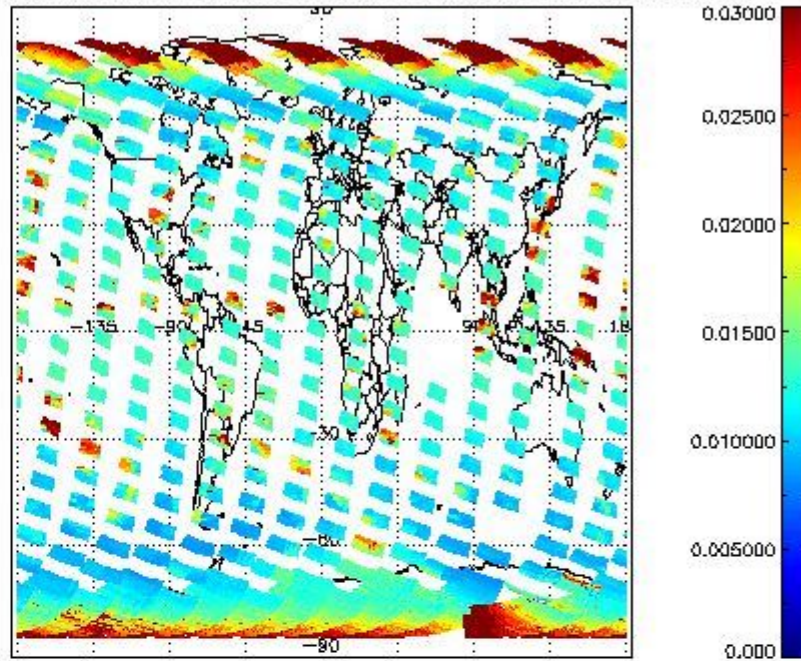
#### 2.2.2.1 O3 (UV0)



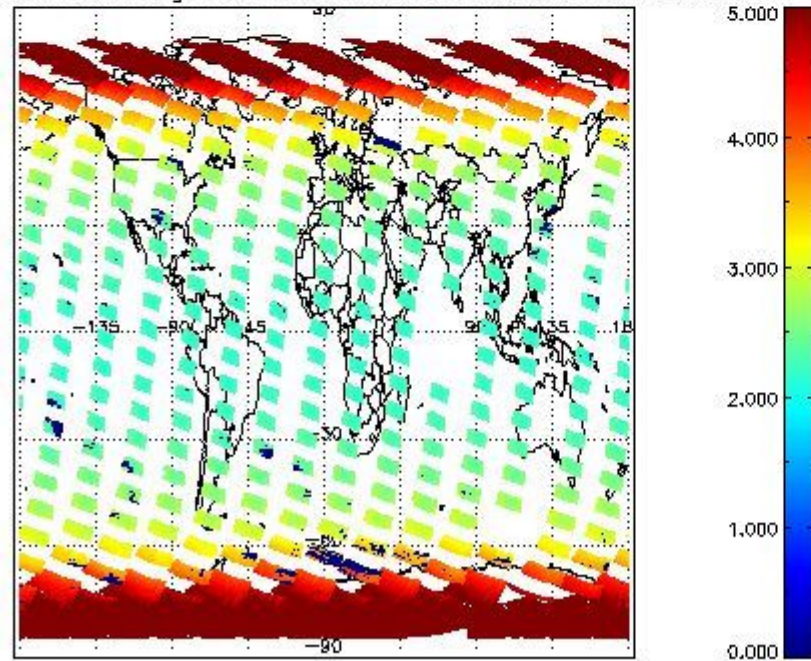
SCIOL2P\_NADUV003\_vcd for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



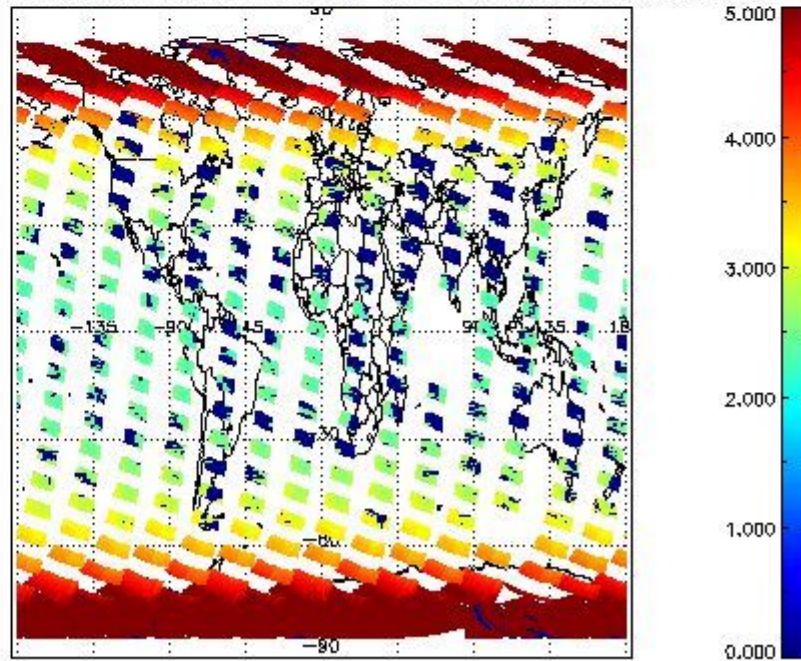
SCIOL2P\_NADUV003\_vcd\_err for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



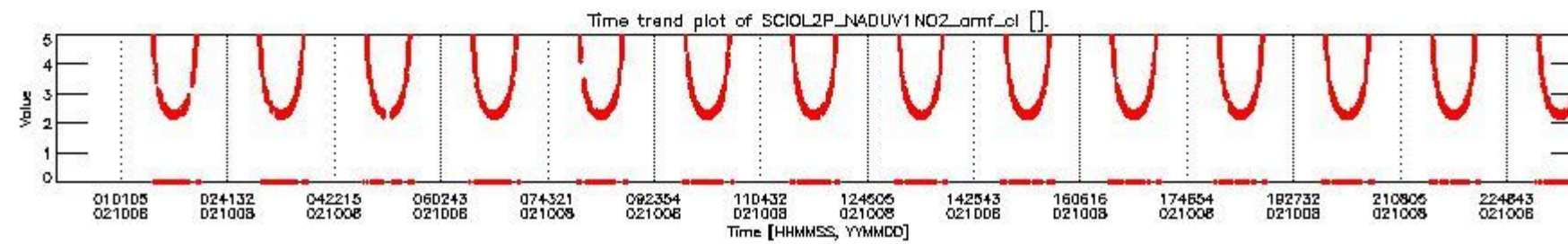
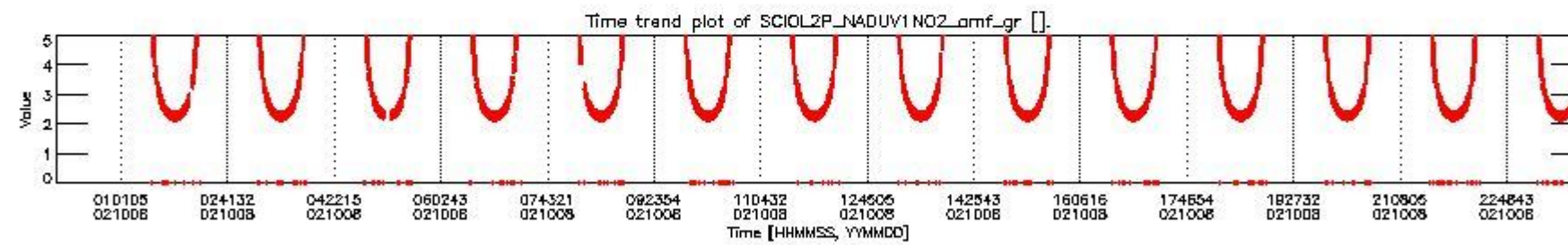
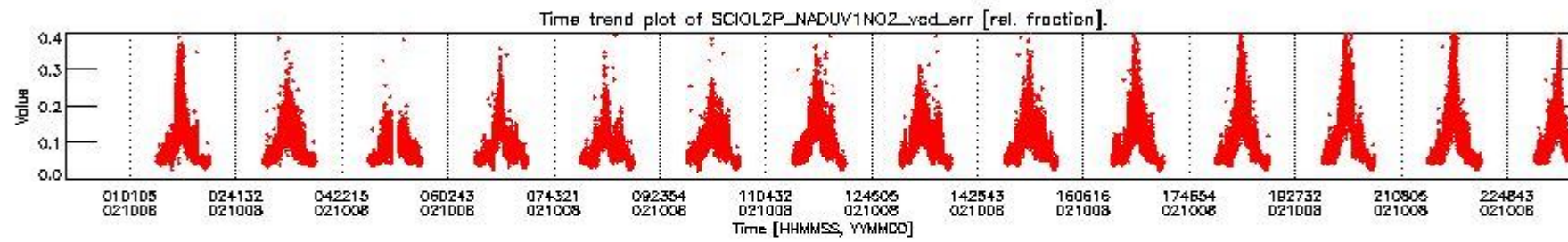
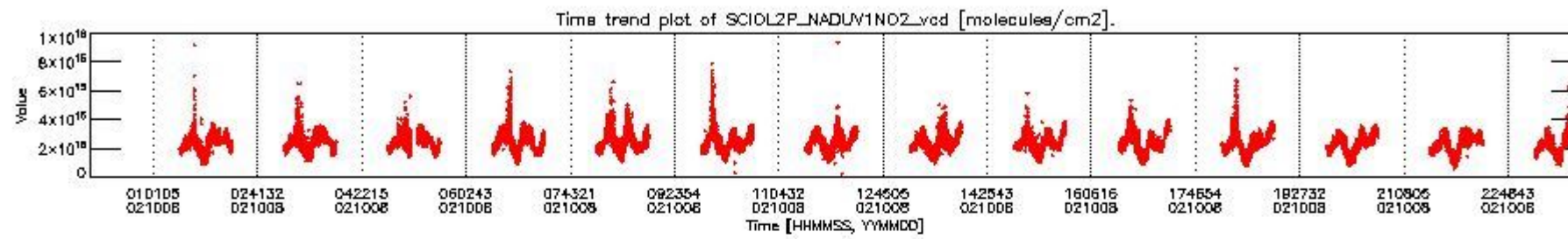
SCIOL2P\_NADUV003\_amf\_gr for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



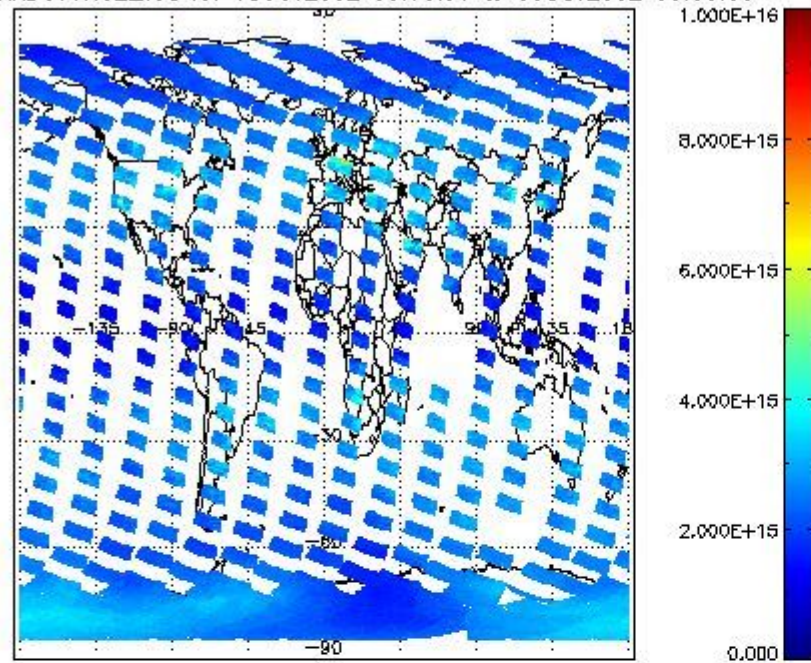
SCIOL2P\_NADUV003\_amf\_cl for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



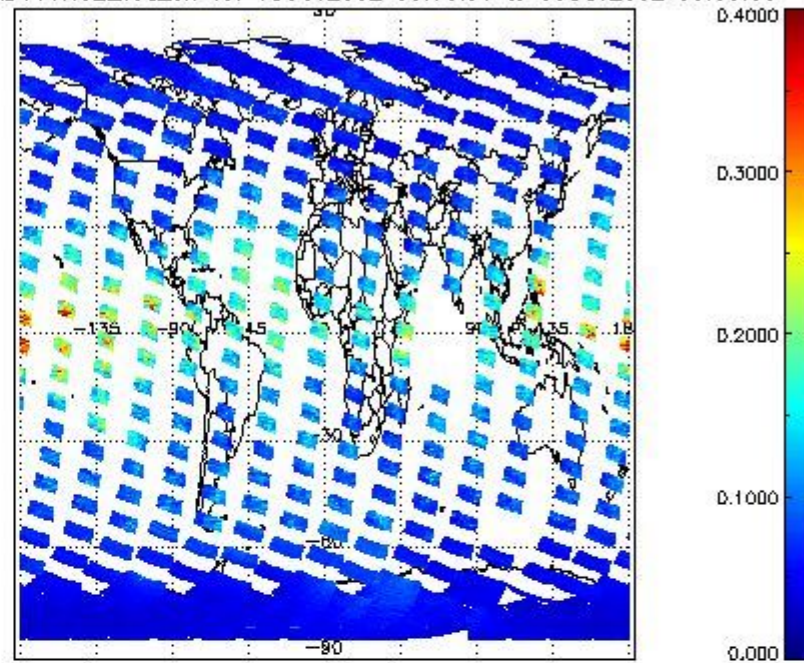
2.2.2.2 NO2 (UV1)



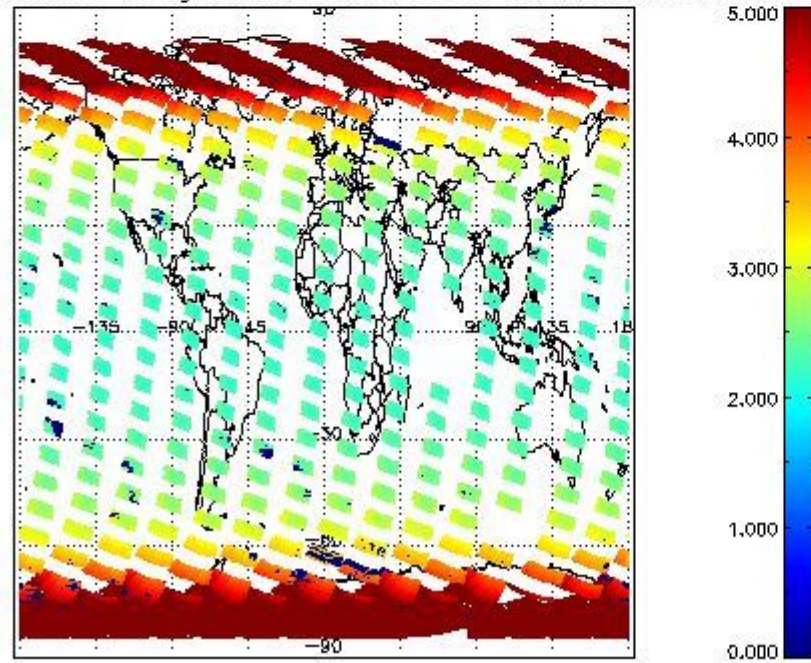
SCIOL2P\_NADUV1NO2\_vcd for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



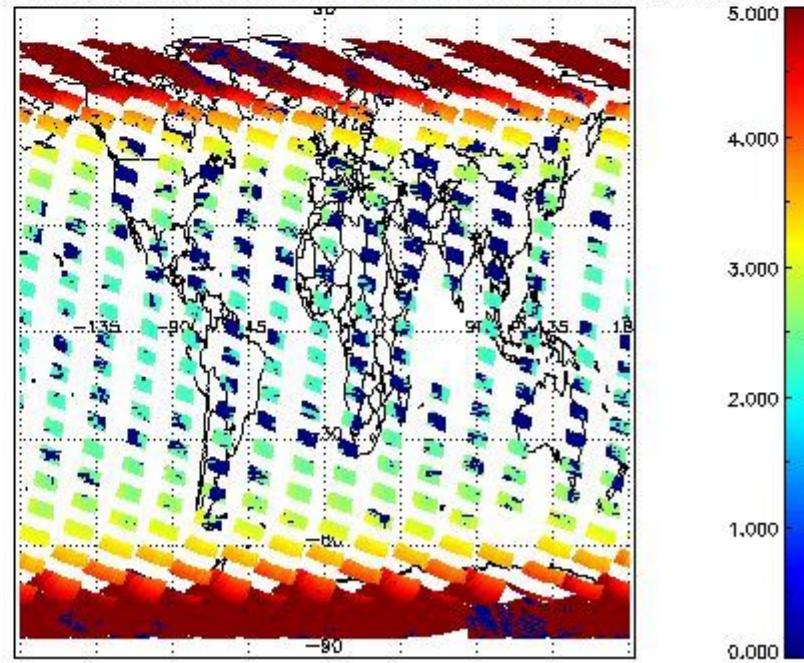
SCIOL2P\_NADUV1NO2\_vcd\_err for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



SCIOL2P\_NADUV1NO2\_amf\_gr for 08OCT2002 00:00:00 to 09OCT2002 00:00:00

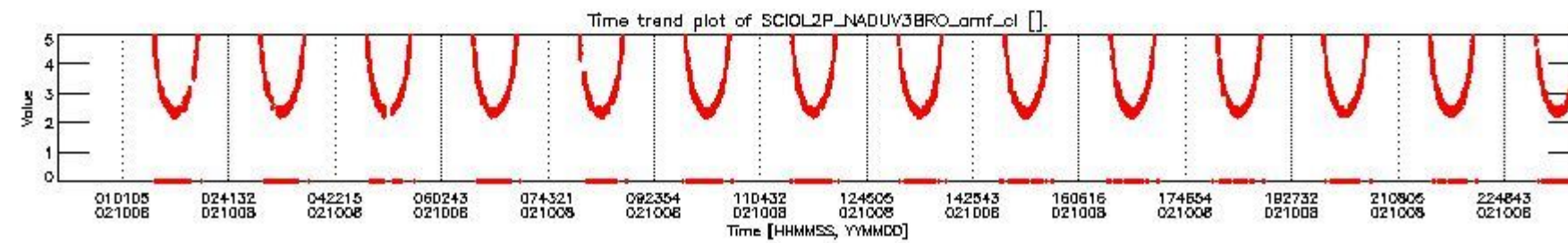
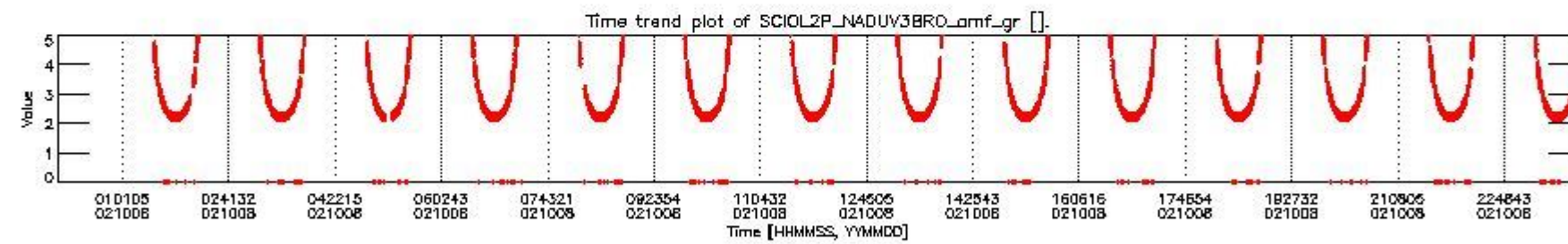
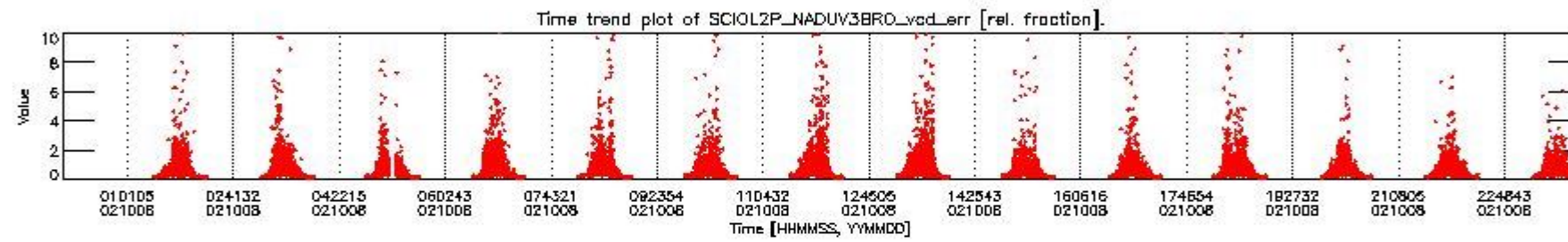
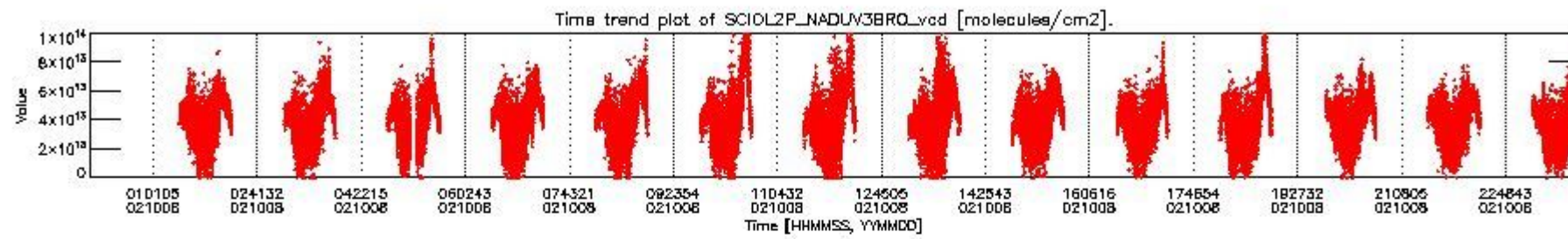


SCIOL2P\_NADUV1NO2\_amf\_cl for 08OCT2002 00:00:00 to 09OCT2002 00:00:00

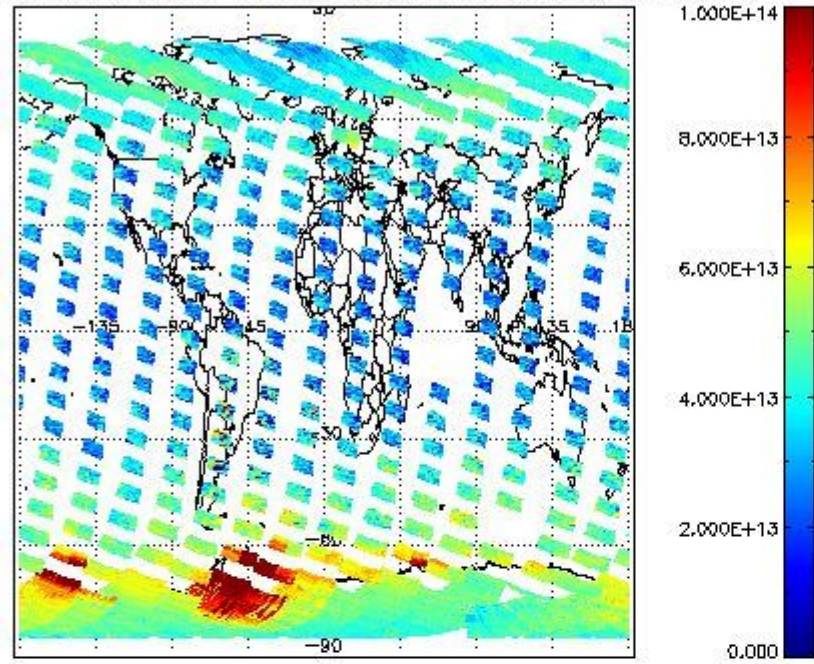


2.2.2.3 BrO (UV3)

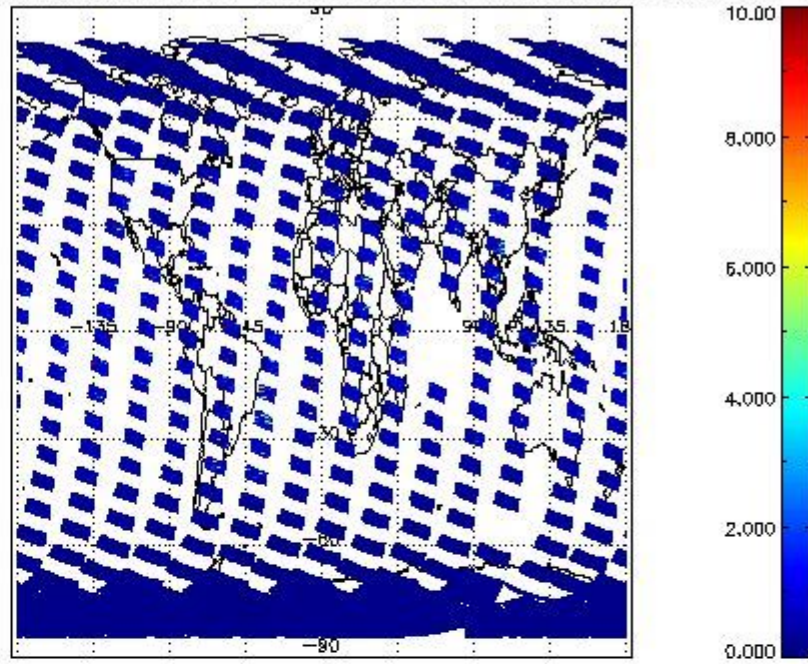




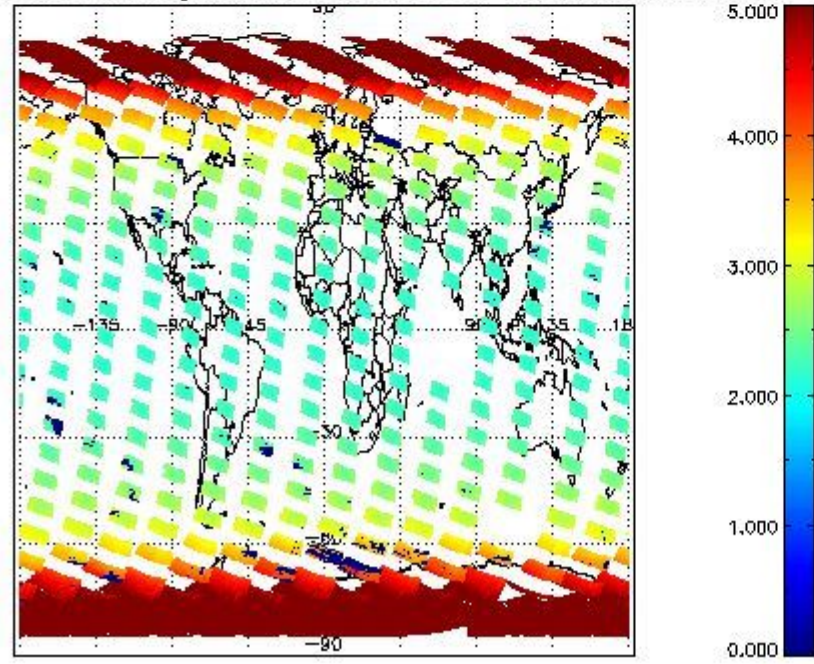
SCIOL2P\_NADUV3BRO\_vcd for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



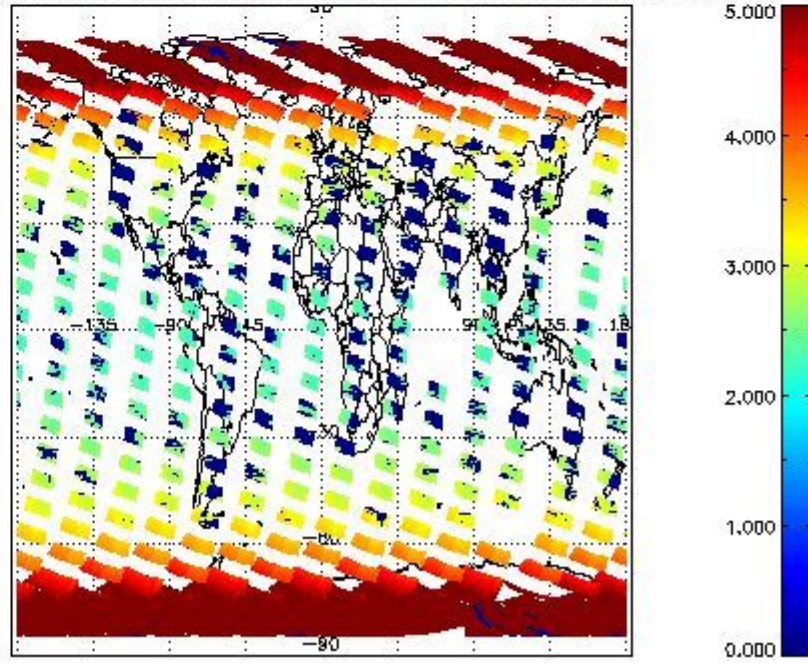
SCIOL2P\_NADUV3BRO\_vcd\_err for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



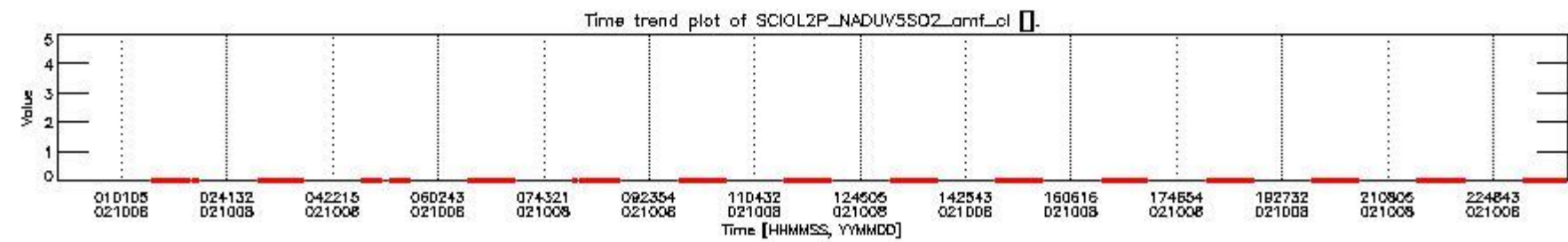
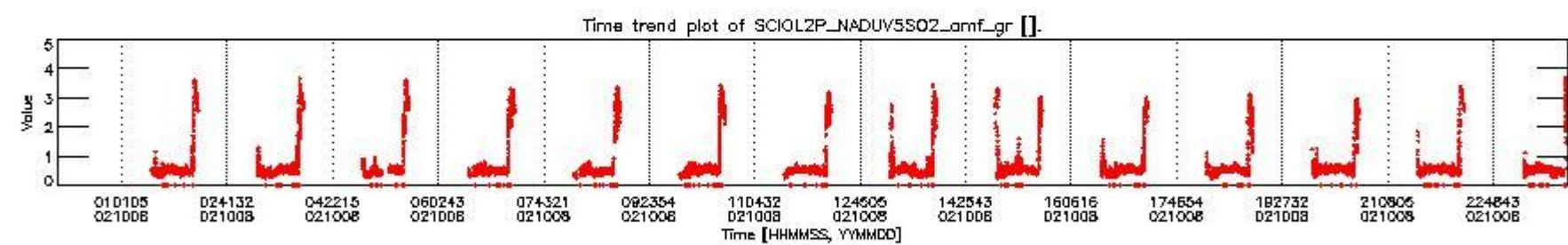
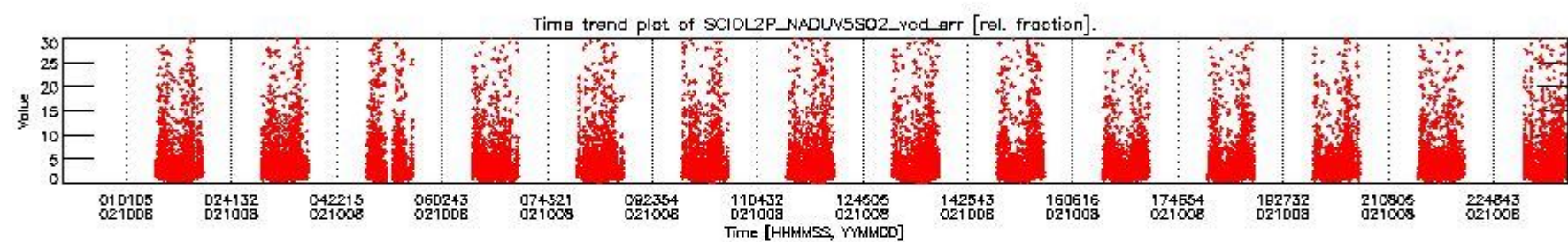
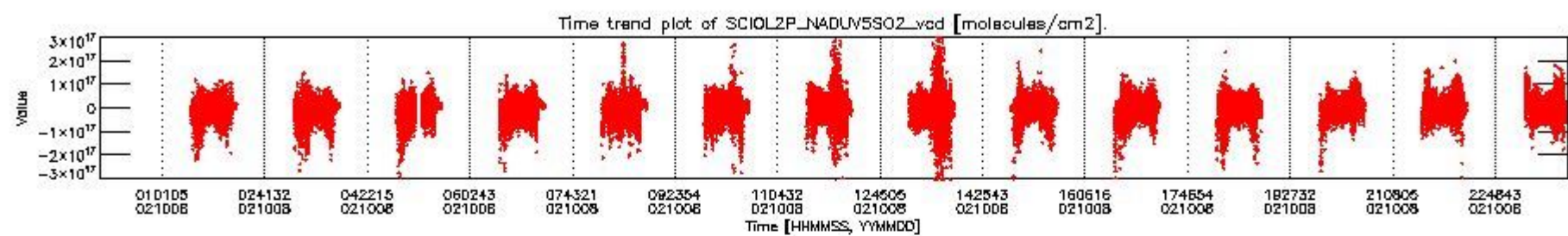
SCIOL2P\_NADUV3BRO\_amf\_gr for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



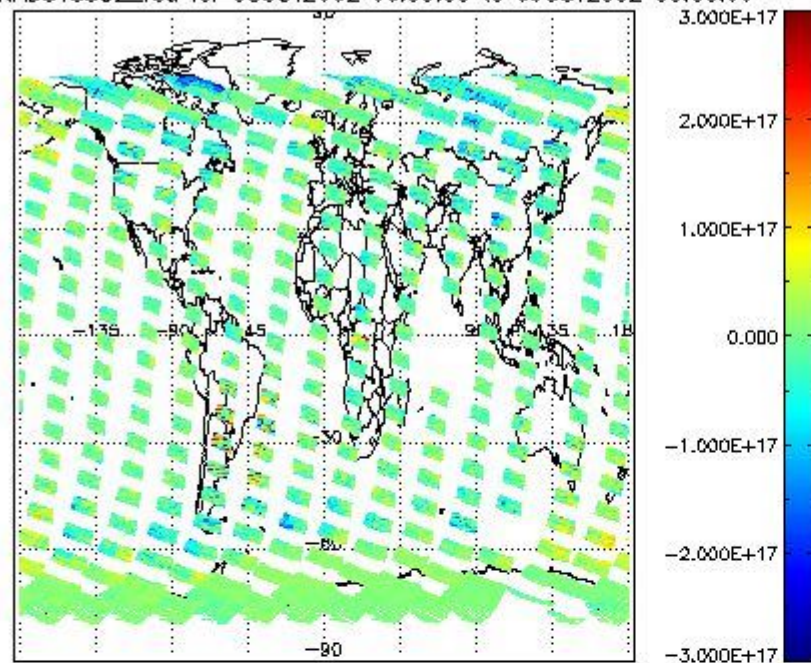
SCIOL2P\_NADUV3BRO\_amf\_cl for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



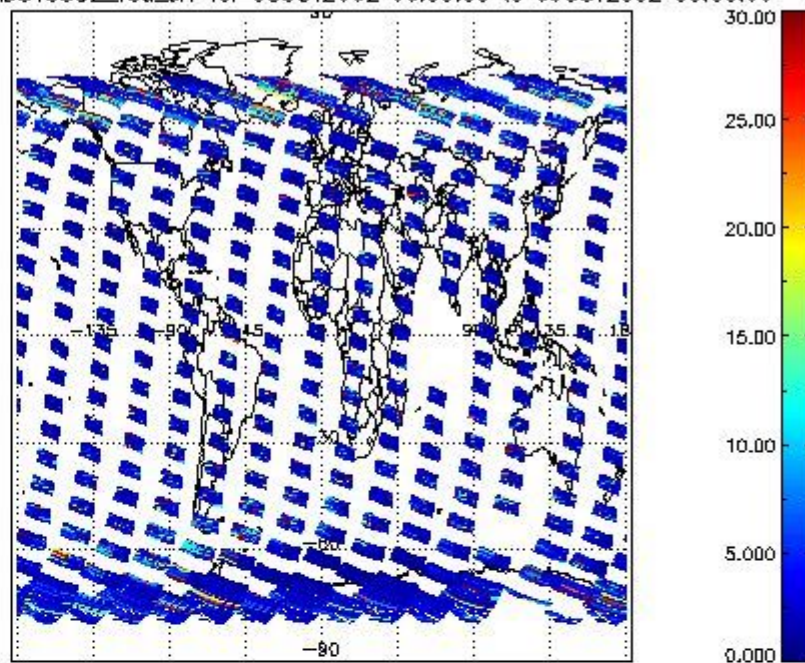
2.2.2.4 SO2 (UV5)



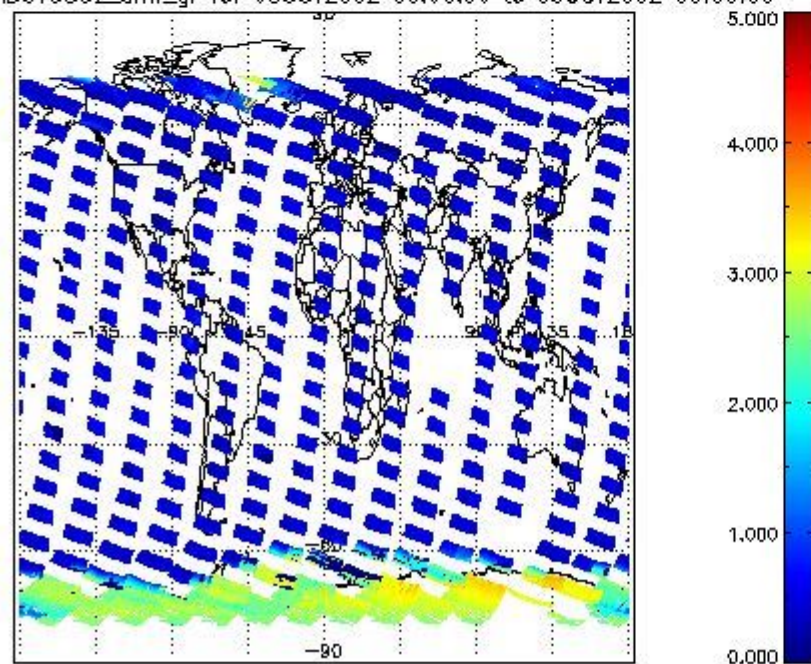
SCIOL2P\_NADUV5SO2\_vcd for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



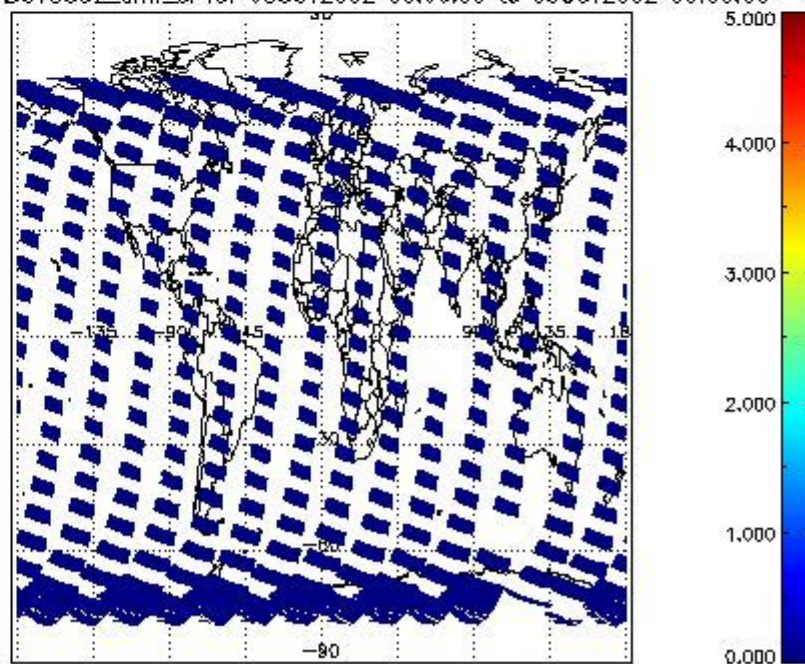
SCIOL2P\_NADUV5SO2\_vcd\_err for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



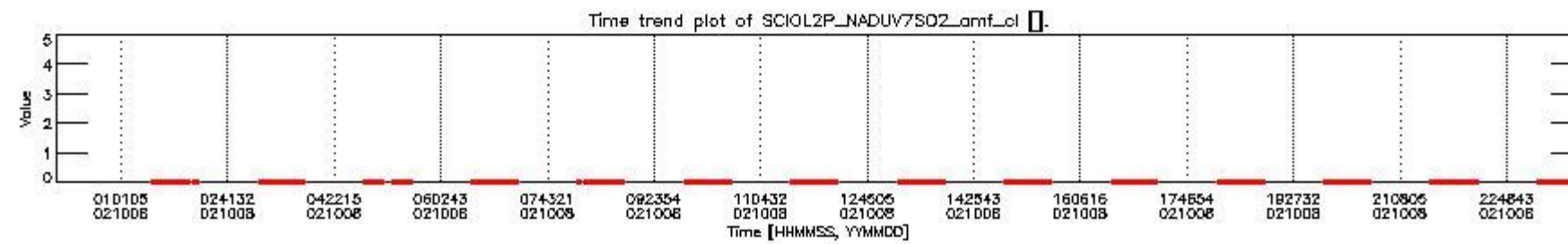
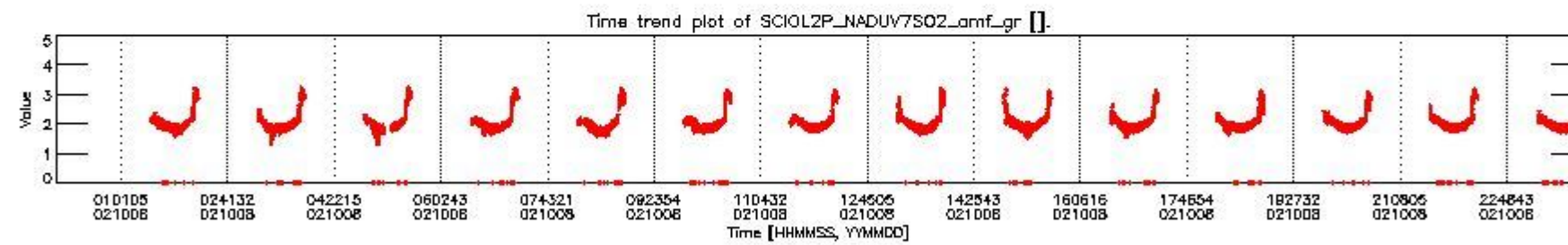
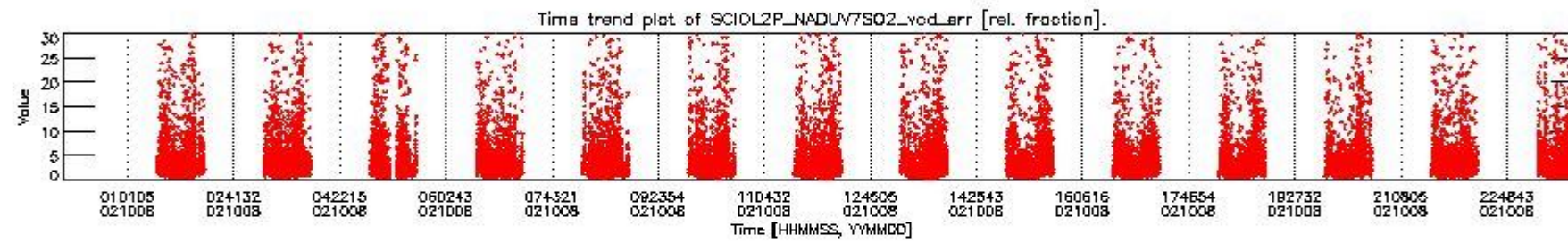
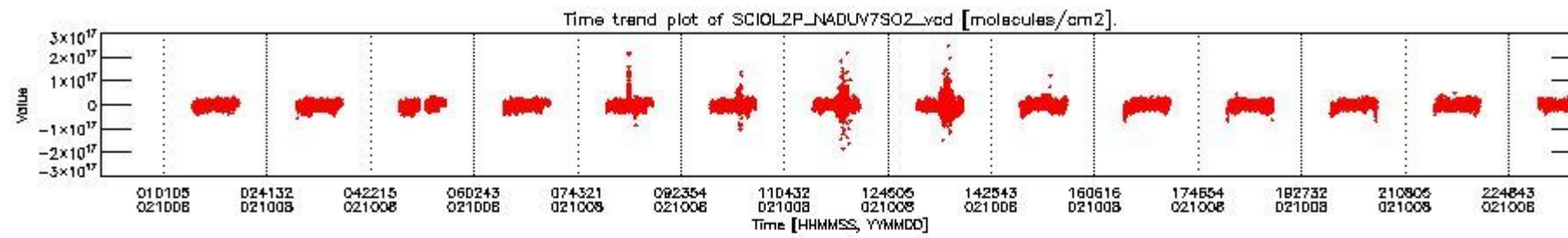
SCIOL2P\_NADUV5SO2\_amf\_gr for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



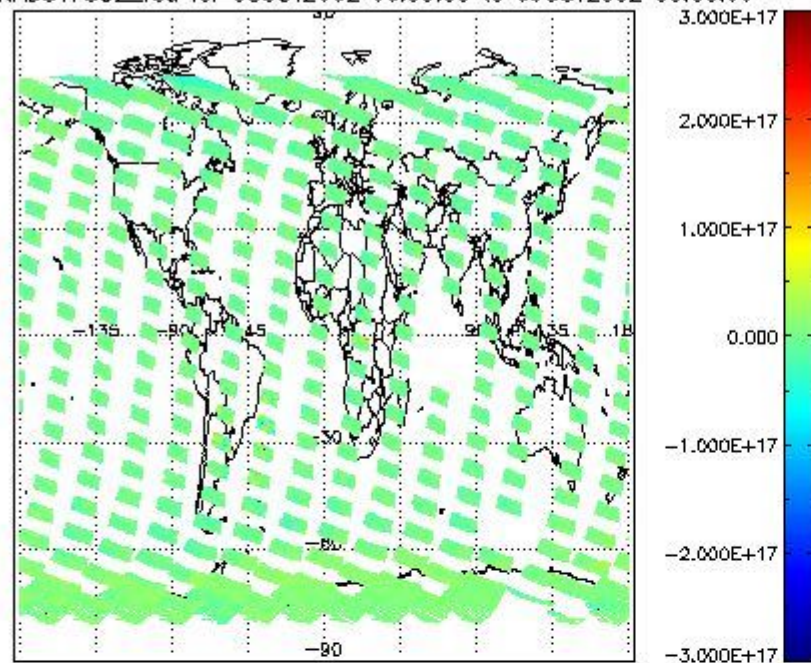
SCIOL2P\_NADUV5SO2\_amf\_cl for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



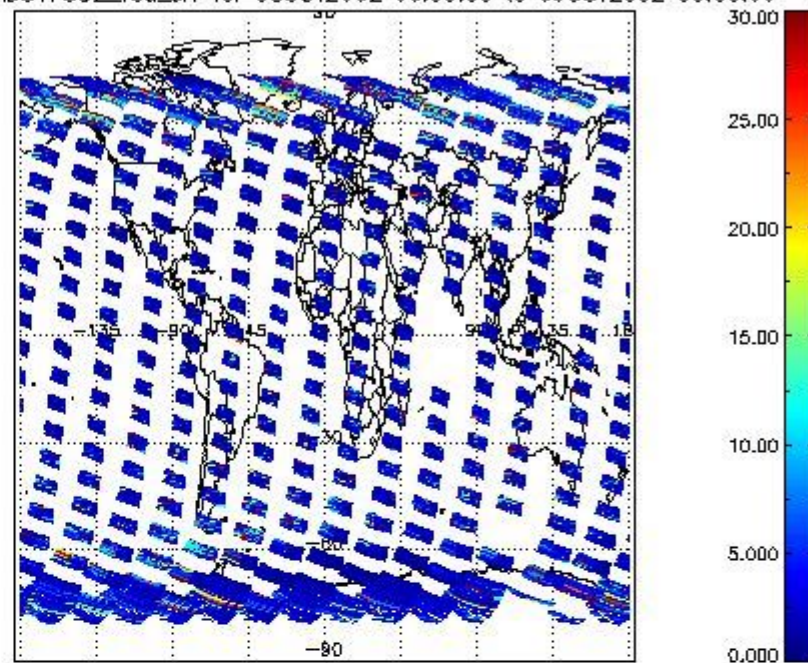
2.2.2.5 SO2 (UV7)



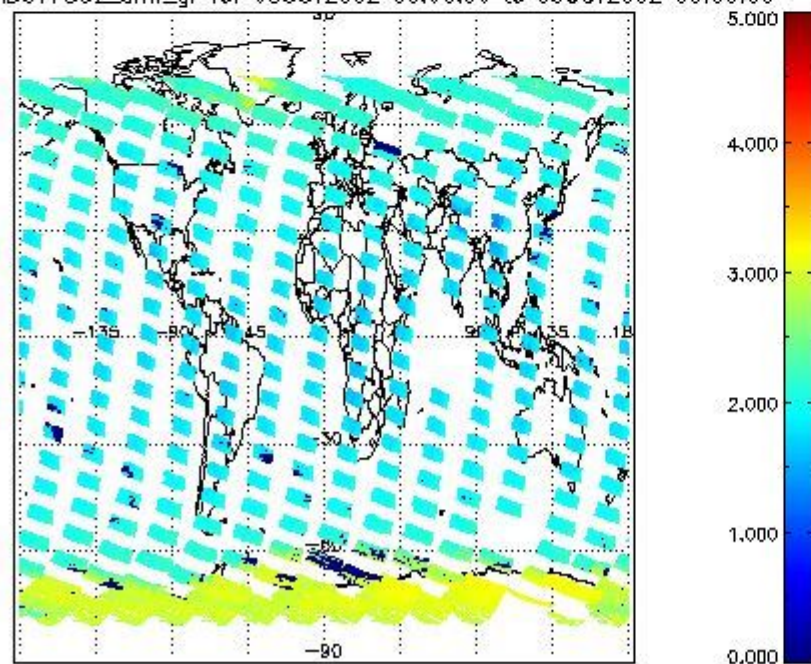
SCIOL2P\_NADUV7S02\_vcd for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



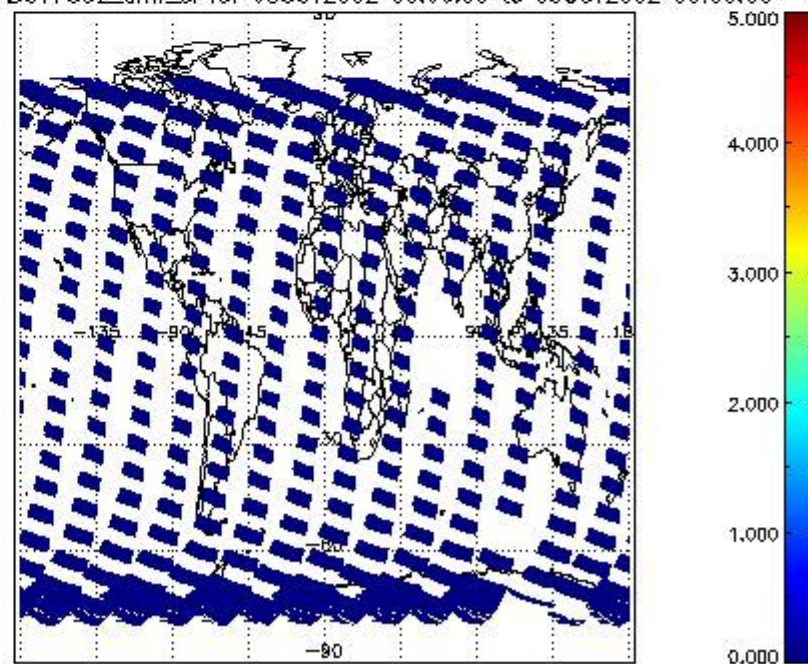
SCIOL2P\_NADUV7S02\_vcd\_err for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



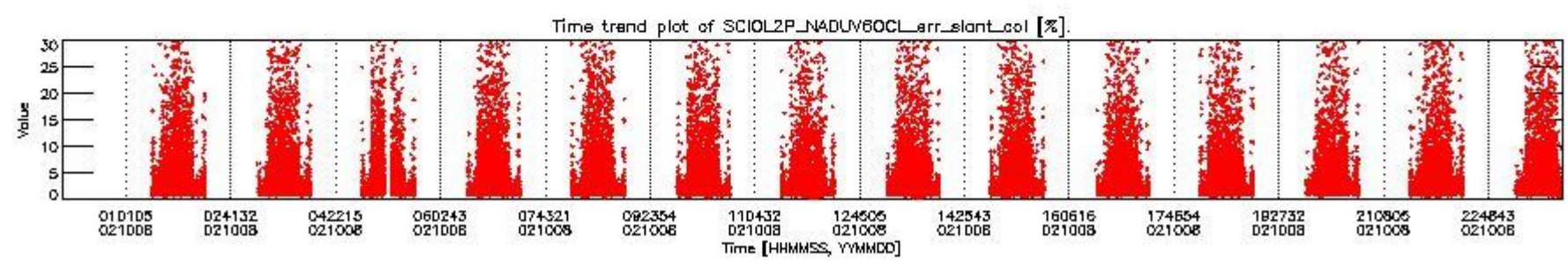
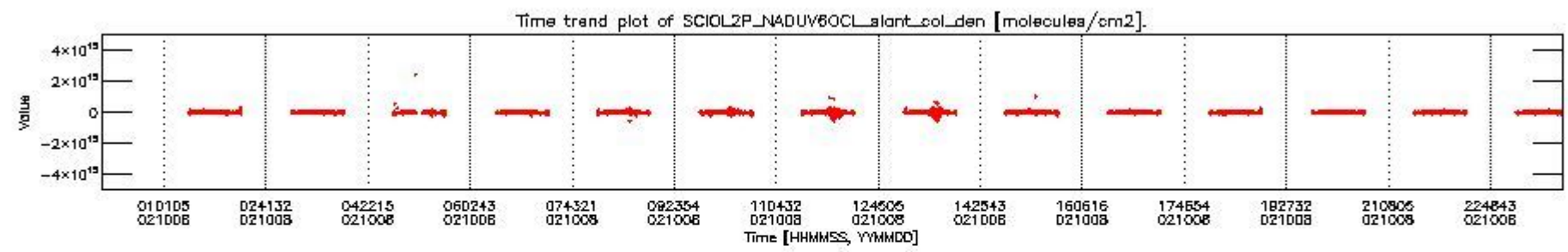
SCIOL2P\_NADUV7S02\_amf\_gr for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



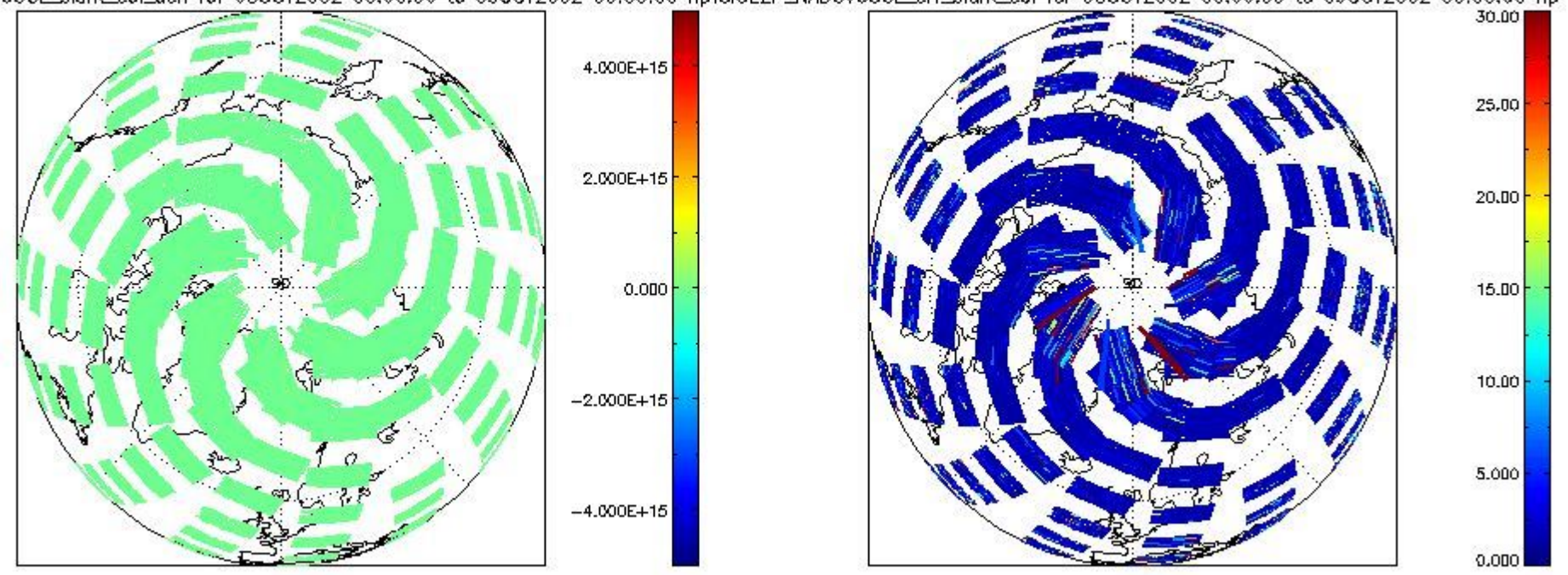
SCIOL2P\_NADUV7S02\_amf\_cl for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



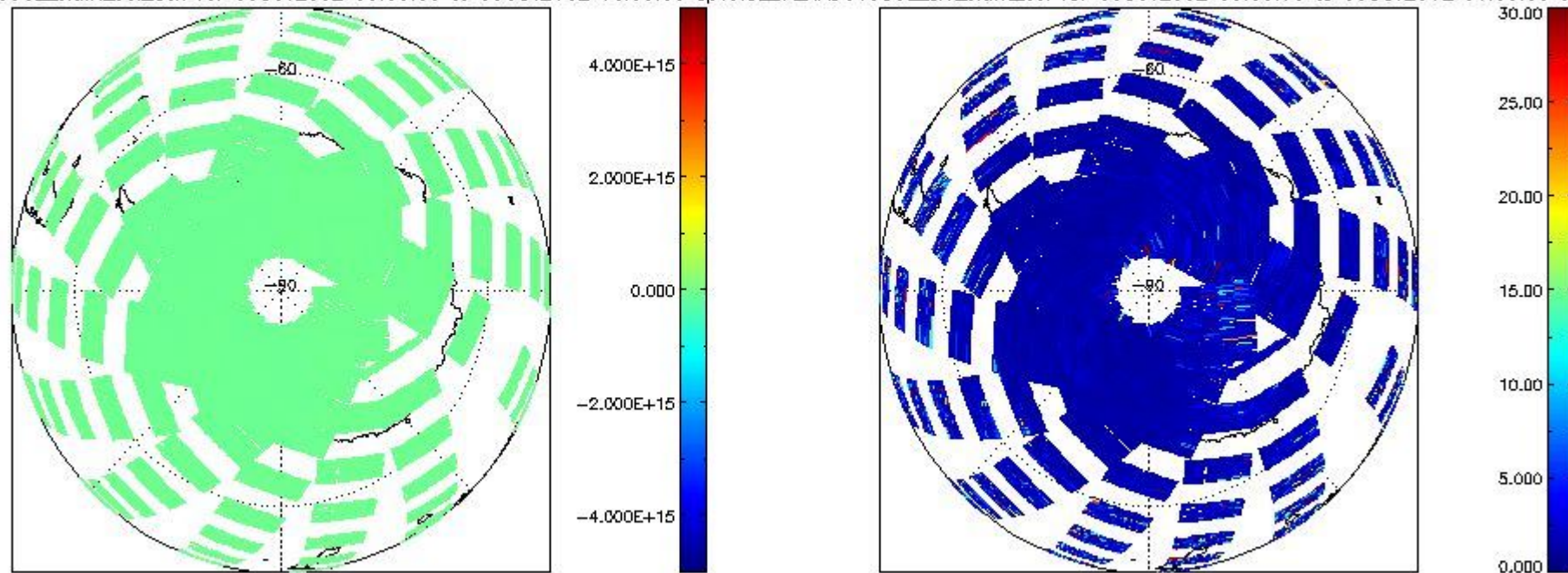
2.2.2.6 OCIO (UV6)



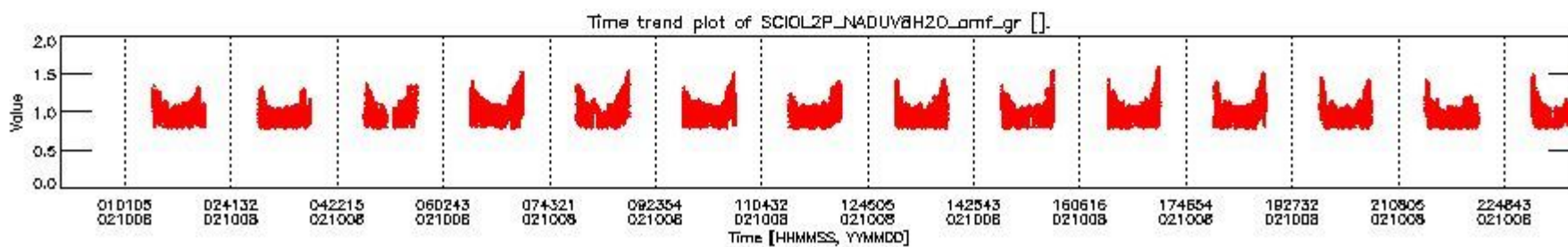
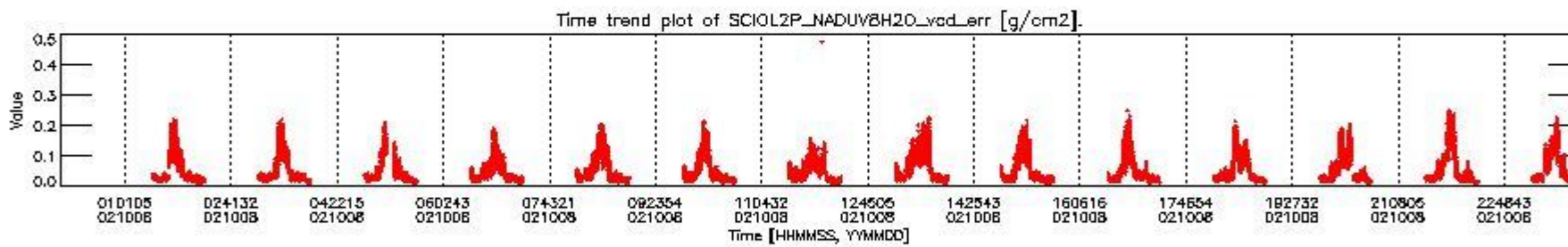
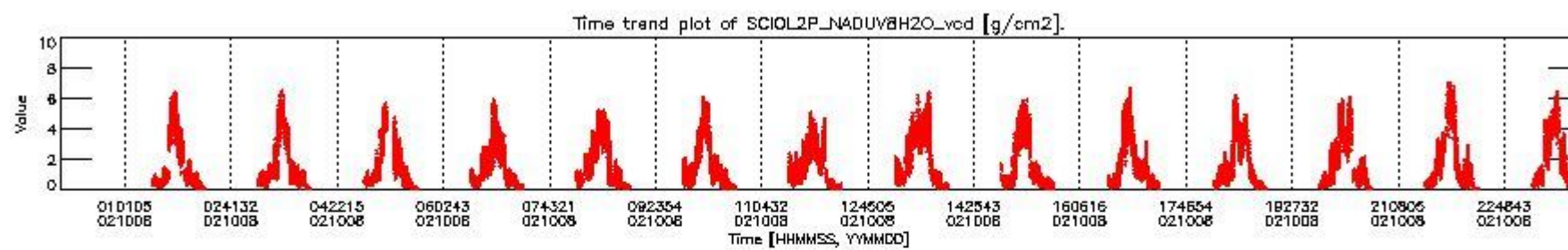
CIOL2P\_NADUV60CL\_slant\_col\_den for 08OCT2002 00:00:00 to 09OCT2002 00:00:00 np CIOL2P\_NADUV60CL\_err\_slant\_col for 08OCT2002 00:00:00 to 09OCT2002 00:00:00 np



CIOL2P\_NADUV6OCL\_slant\_col\_den for 08OCT2002 00:00:00 to 09OCT2002 00:00:00 sp; CIOL2P\_NADUV6OCL\_err\_slant\_col for 08OCT2002 00:00:00 to 09OCT2002 00:00:00 sp

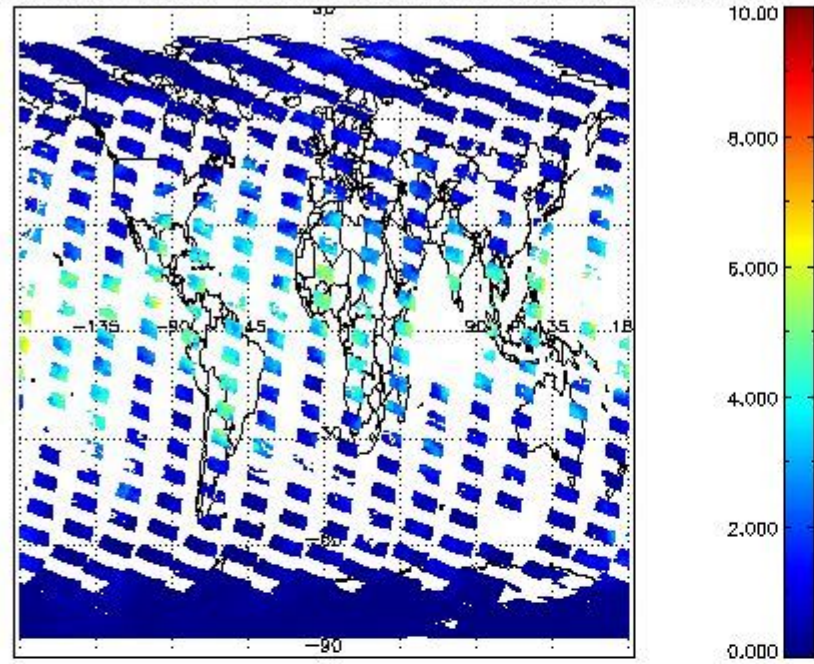


### 2.2.2.7 H2O (UV8)

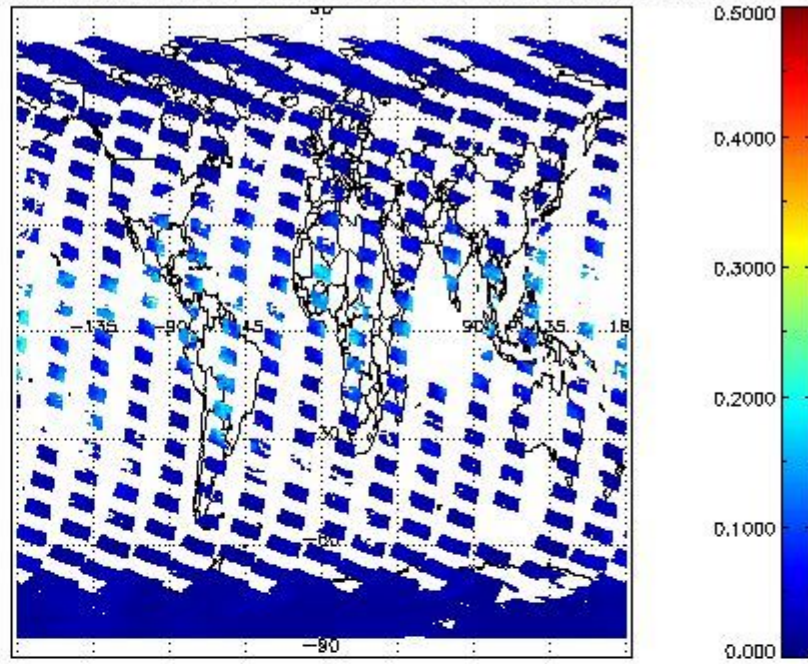




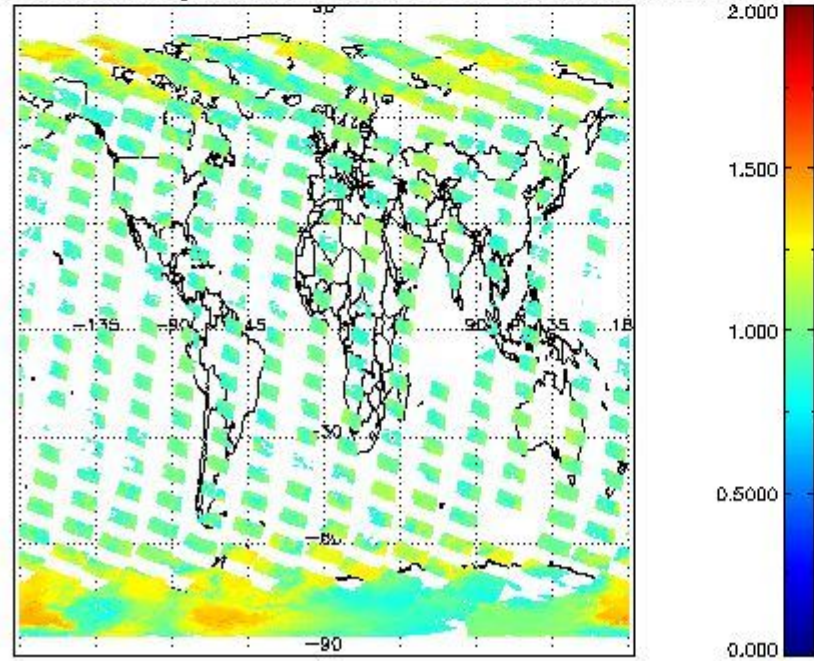
SCIOL2P\_NADUV8H20\_vcd for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



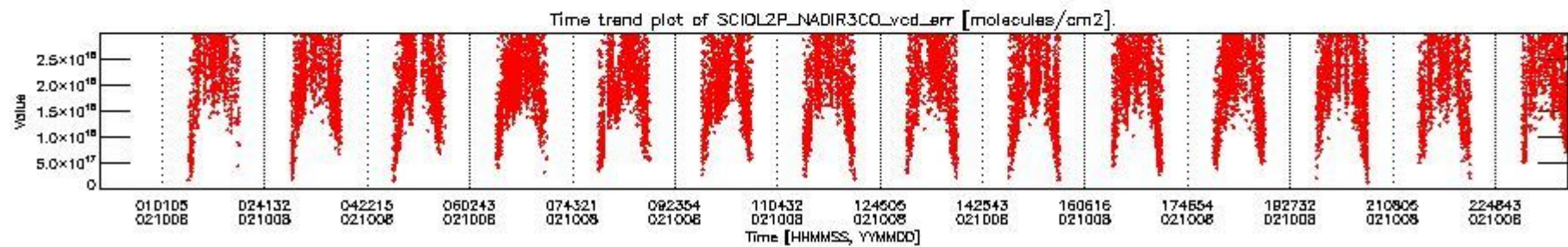
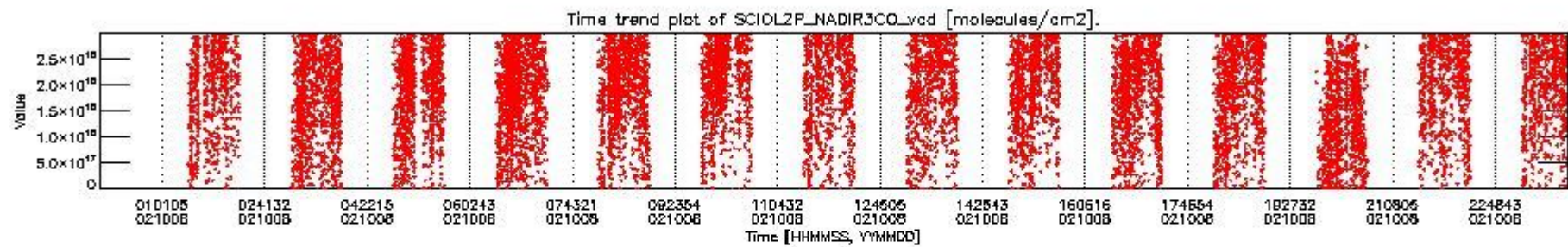
SCIOL2P\_NADUV8H20\_vcd\_err for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



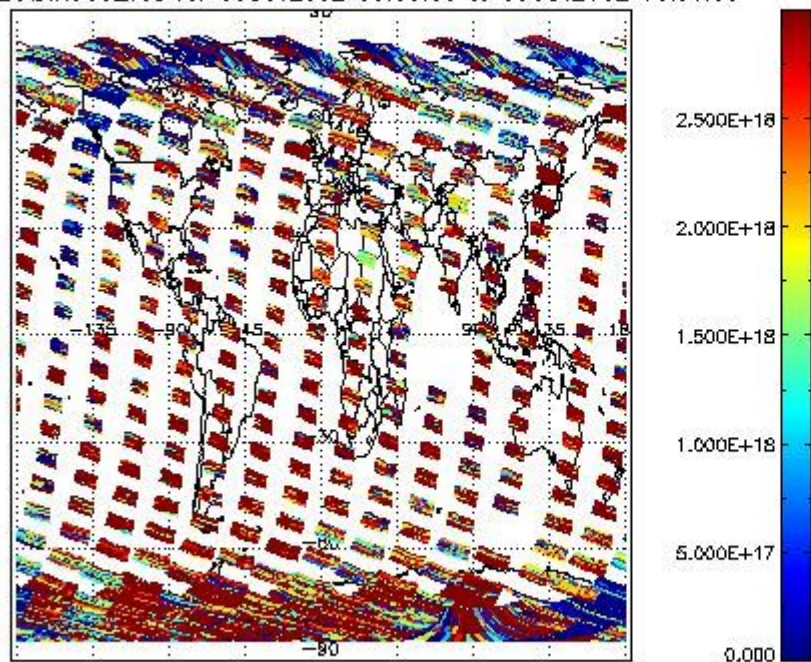
SCIOL2P\_NADUV8H20\_amf\_gr for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



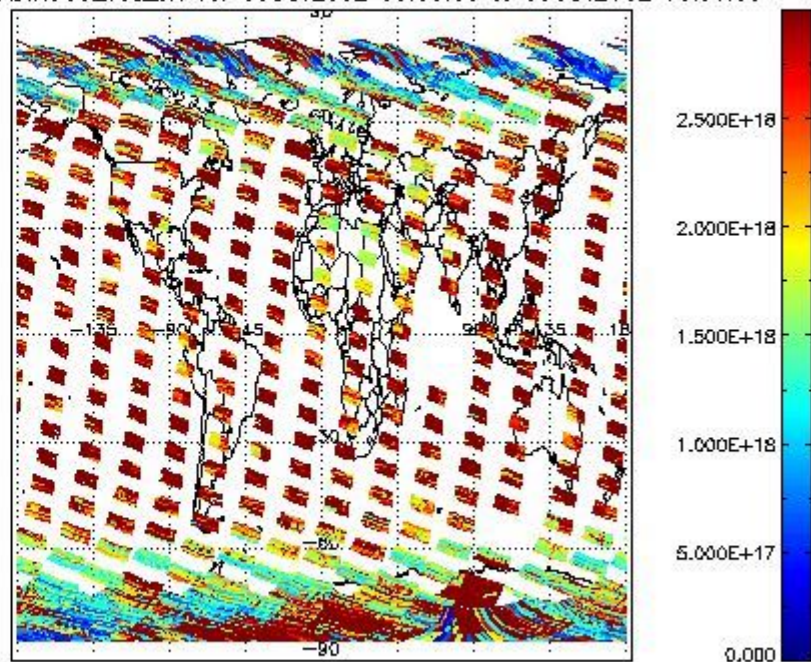
2.2.2.8 CO (IR3)



SCIDL2P\_NADIR3CO\_vcd for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



SCIDL2P\_NADIR3CO\_vcd\_err for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



### 2.2.3 Limb

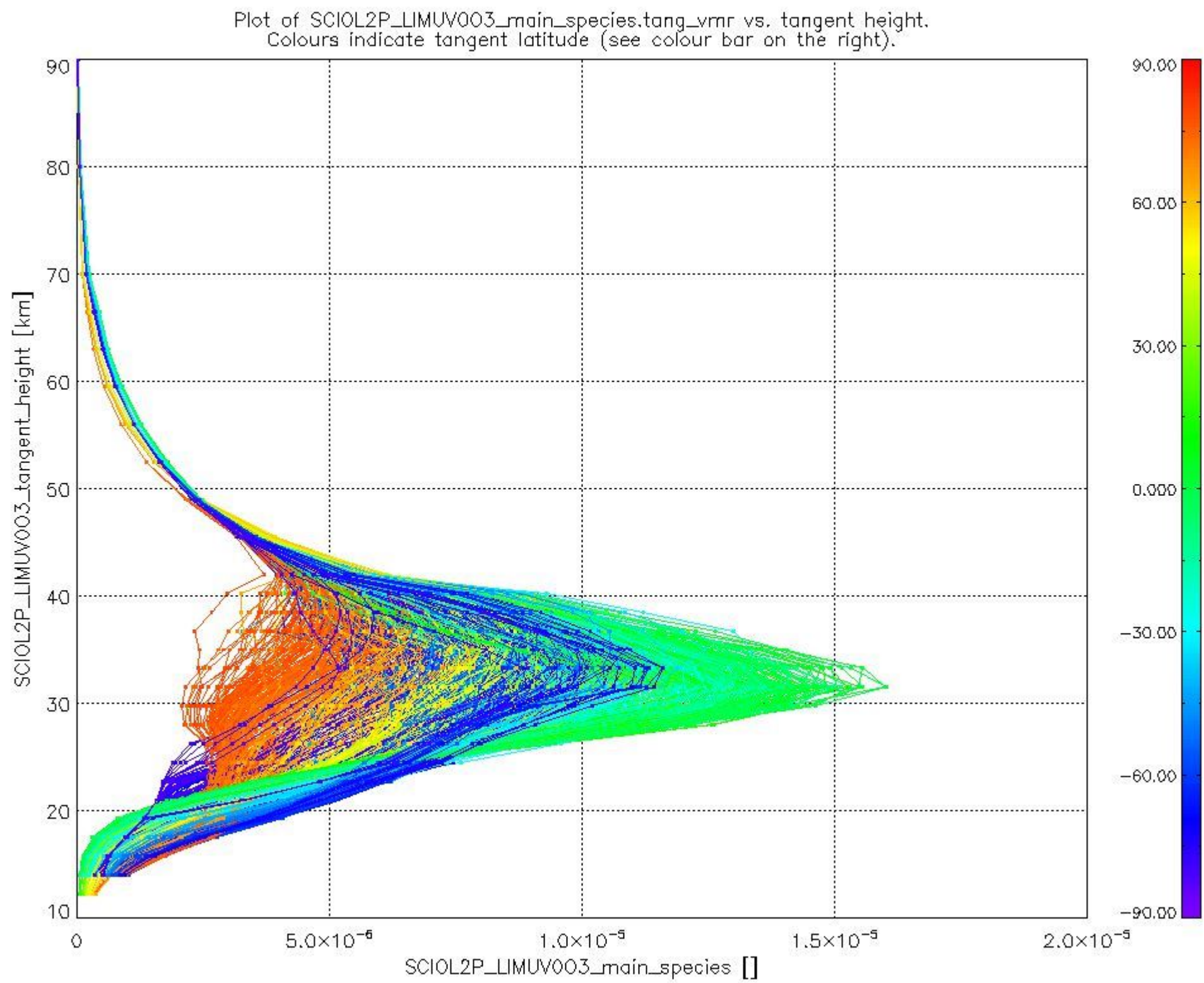
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

The following data items are currently included into this section:

Number	Data item ID
0	SCIDL2P_LIMUV003_main_species
1	SCIDL2P_LIMUV1NO2_main_species
2	SCIDL2P_LIMUV3BRO_main_species

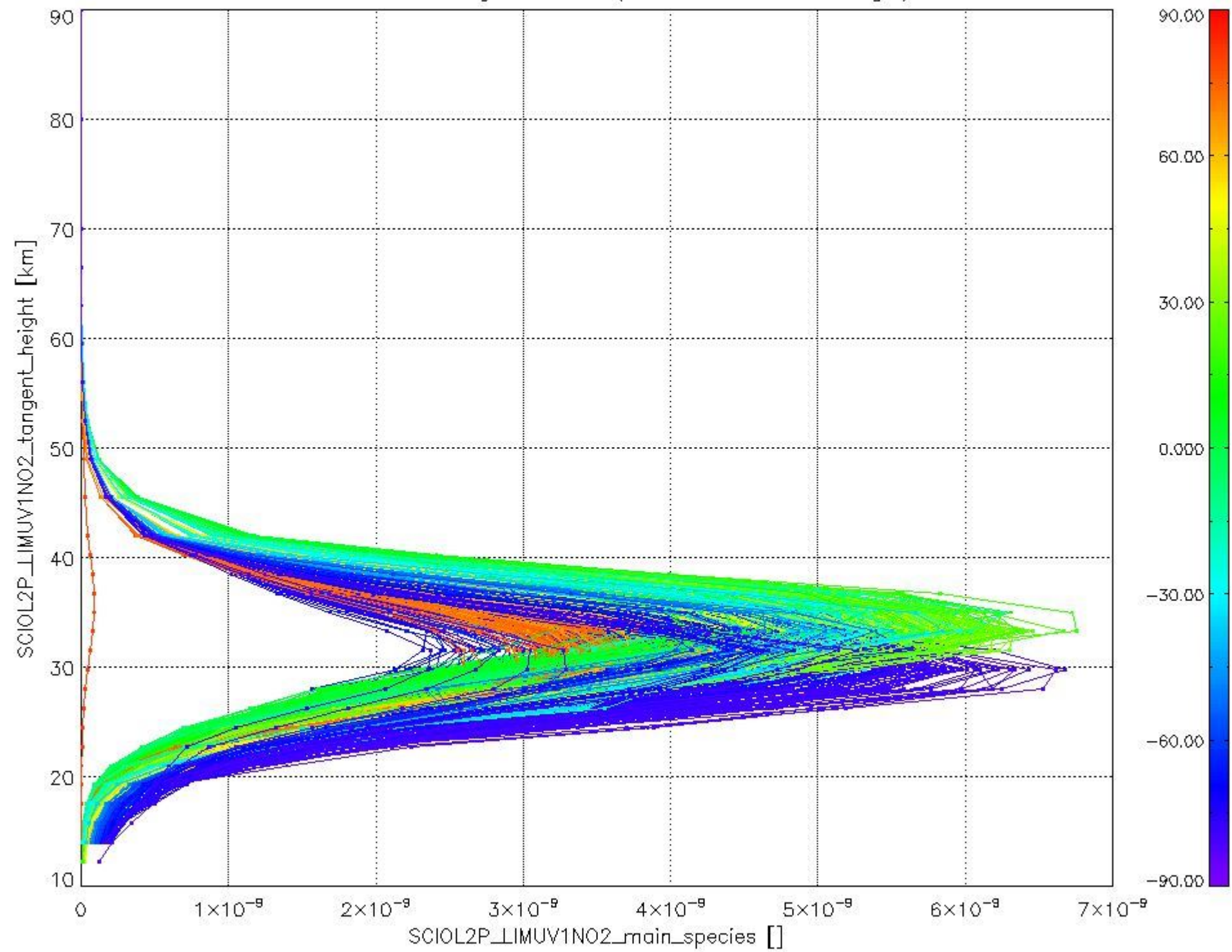
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



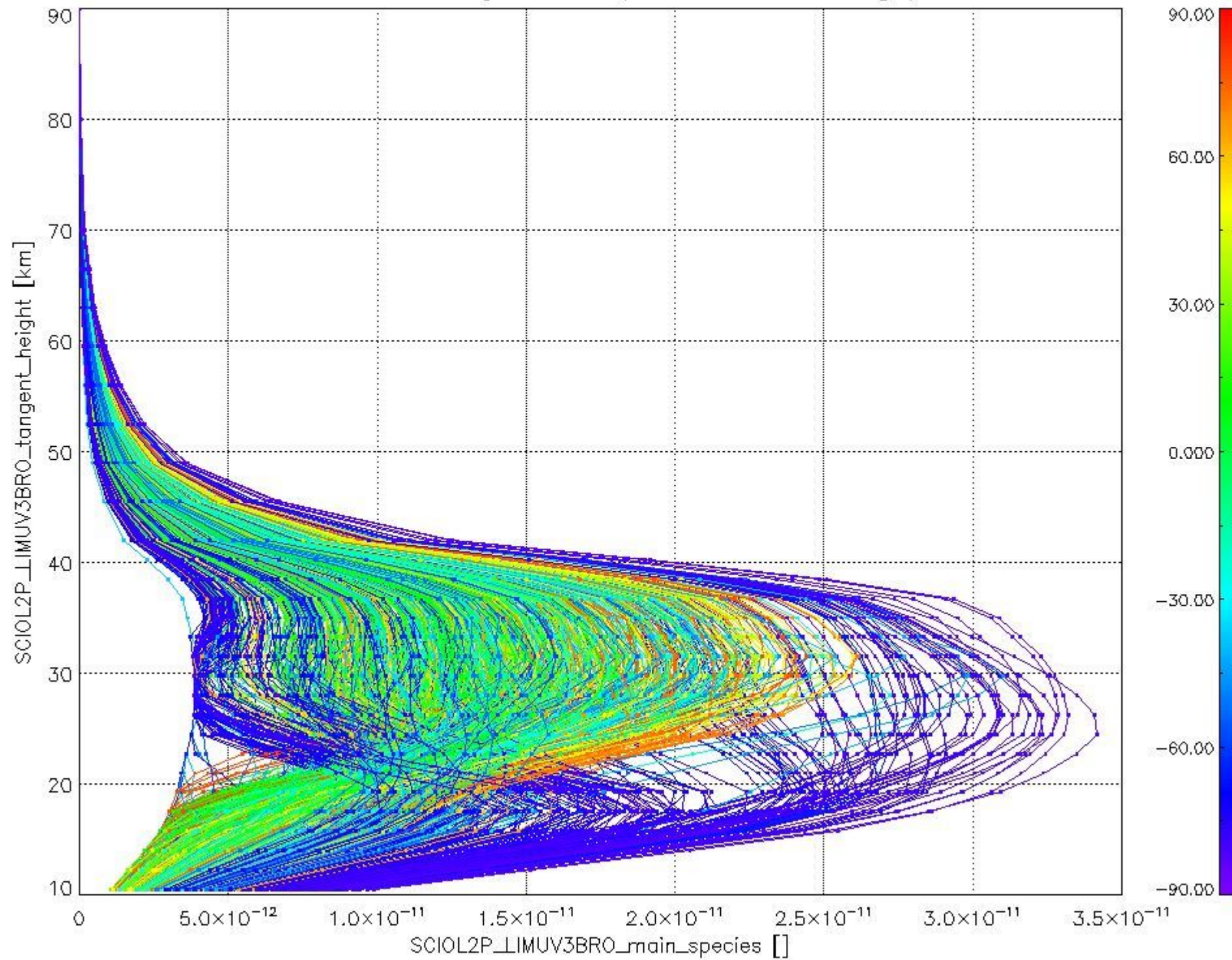
2.2.3.2 NO2 (UV1)

Plot of SCIOL2P\_LIMUV1NO2\_main\_species.tang\_vmr vs. tangent height.  
 Colours indicate tangent latitude (see colour bar on the right).



2.2.3.3 BrO (UV3)

Plot of SCIOL2P\_LIMUV3BRO\_main\_species.tang\_vmr vs. tangent height.  
Colours indicate tangent latitude (see colour bar on the right).

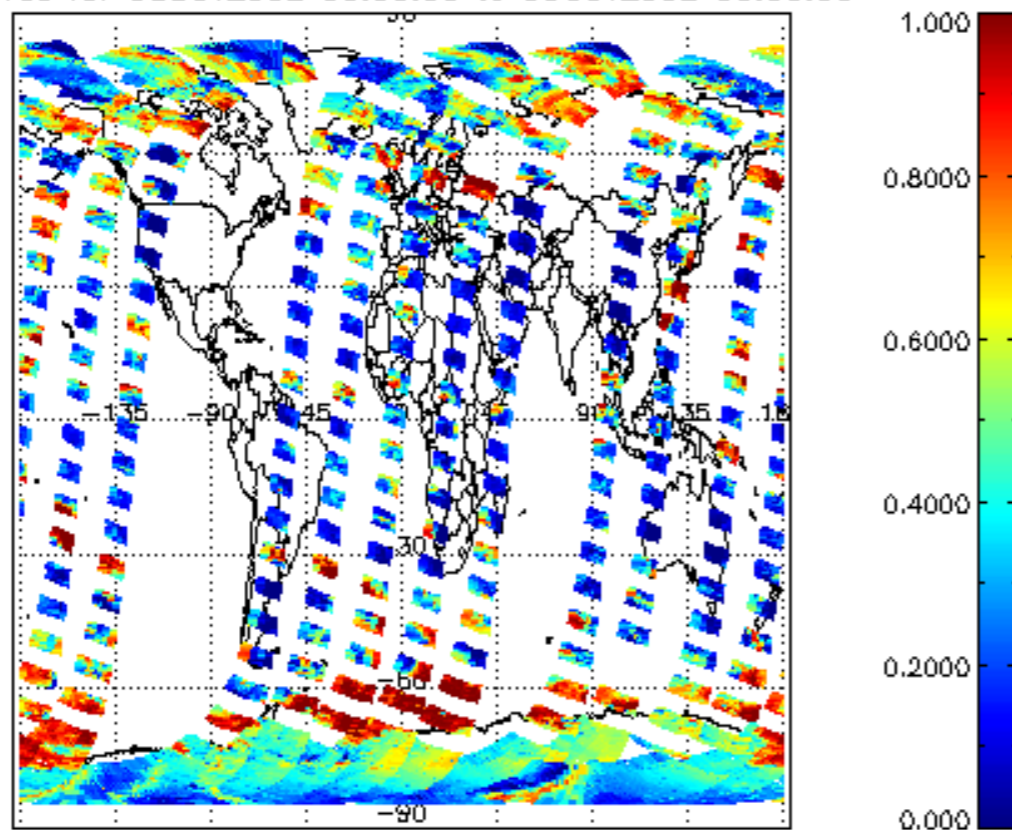


### 2.3 ADF monitoring

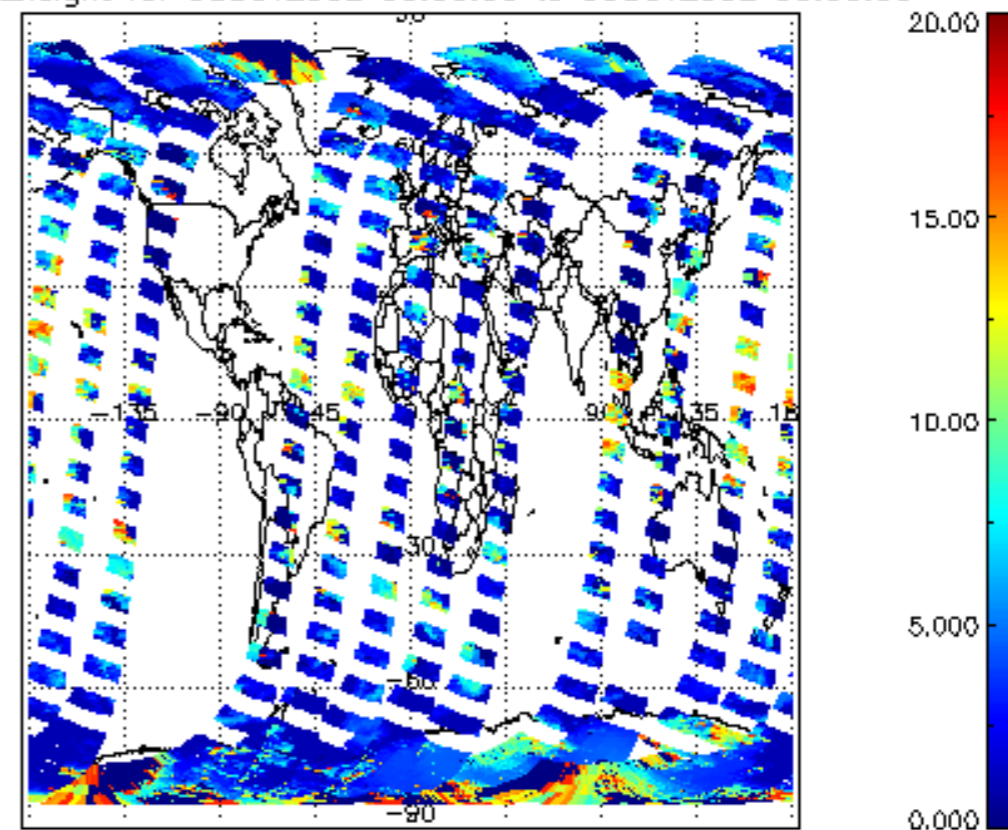
Number	ADF
	<b>IN_ (INITIALISATION_FILE)</b>
0	SCI_IN_AXNPDE20110201_120000_20020301_000000_20991231_235959
	<b>ECF (ECMWF_FILE)</b>
1	NOT USED
	<b>MF1 (M_FACTOR_FILE)</b>
2	SCI_MF1_AXNIEC20100218_140527_20021007_180809_20021009_180809
3	SCI_MF1_AXNIEC20100218_140629_20021008_173632_20021010_173632



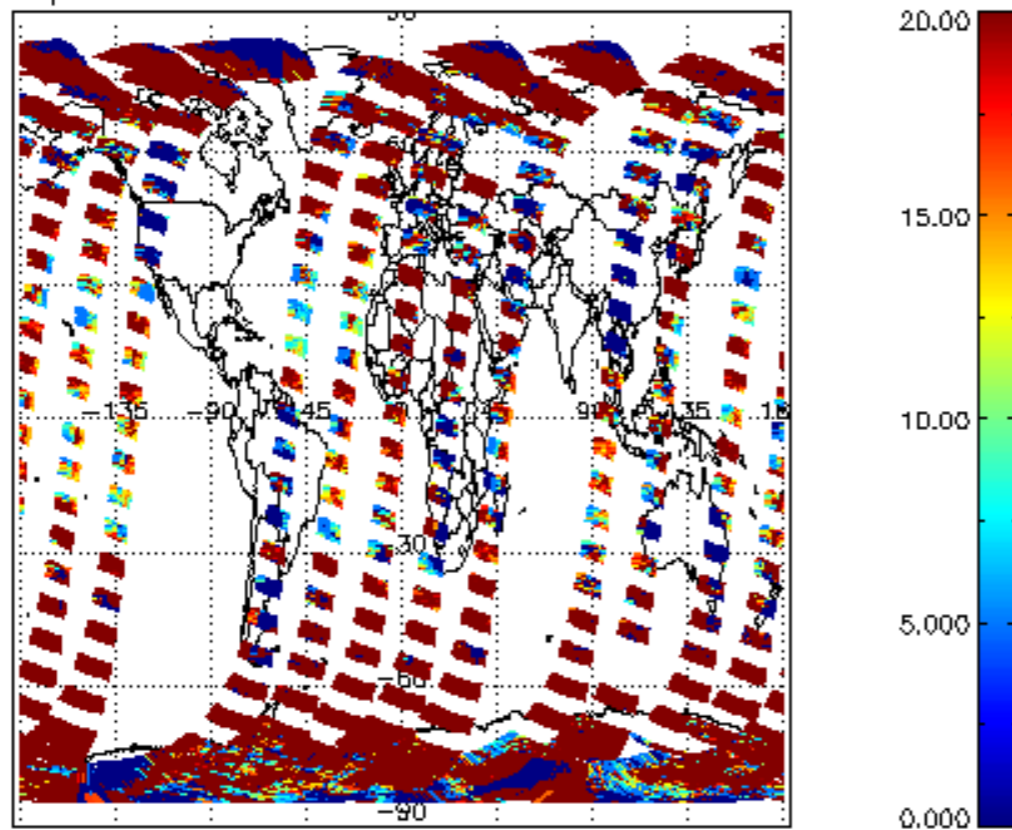
cl\_frac for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



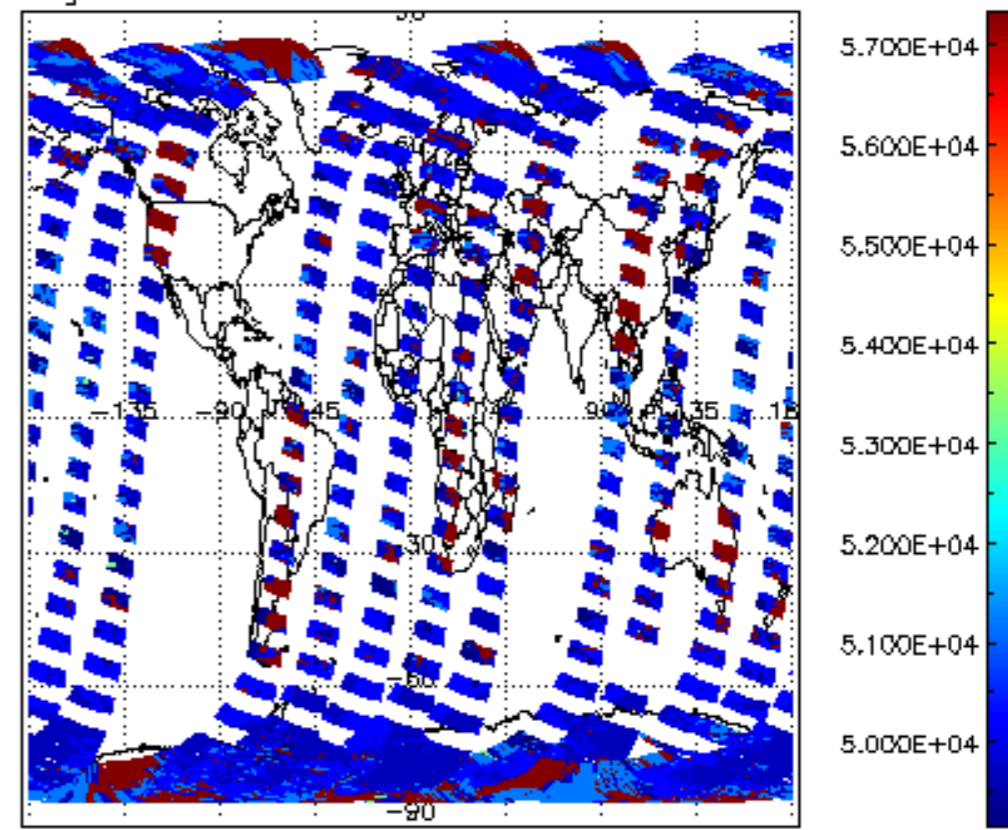
cl\_top\_height for 08OCT2002 00:00:00 to 09OCT2002 00:00:00

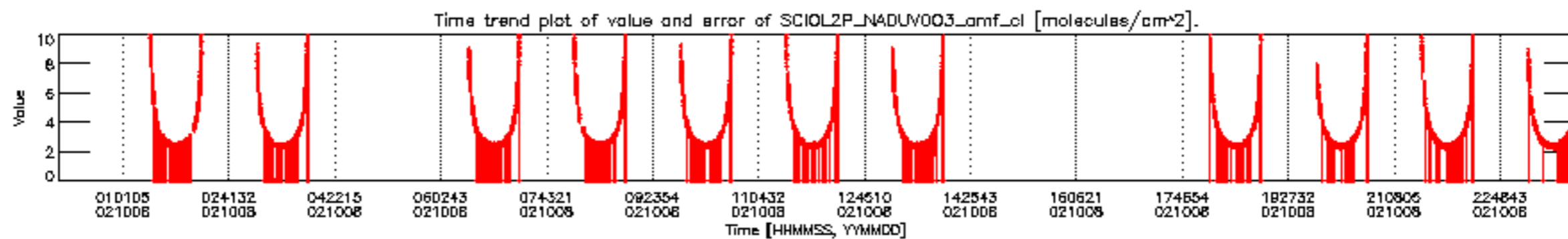
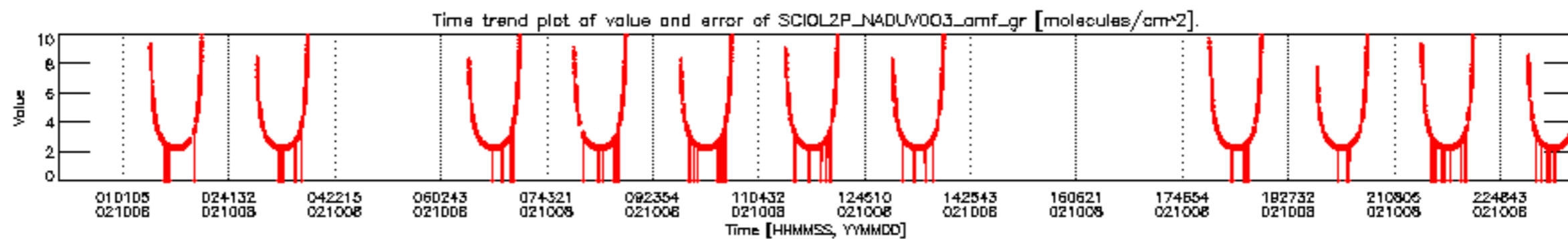
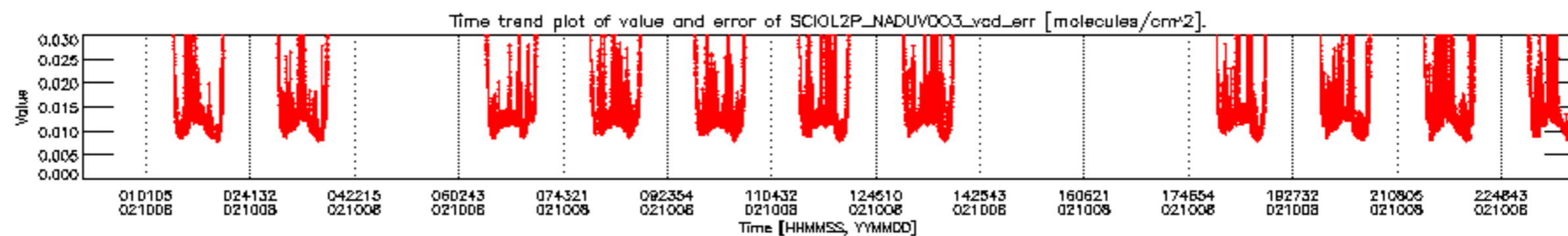
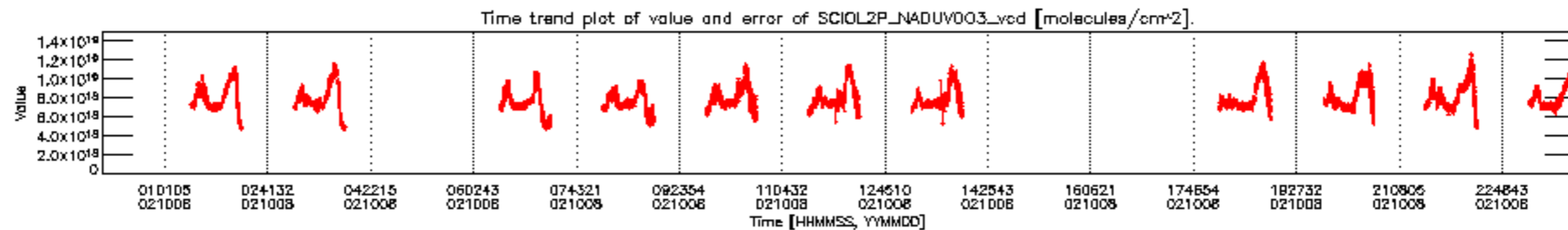


cl\_opt\_depth for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



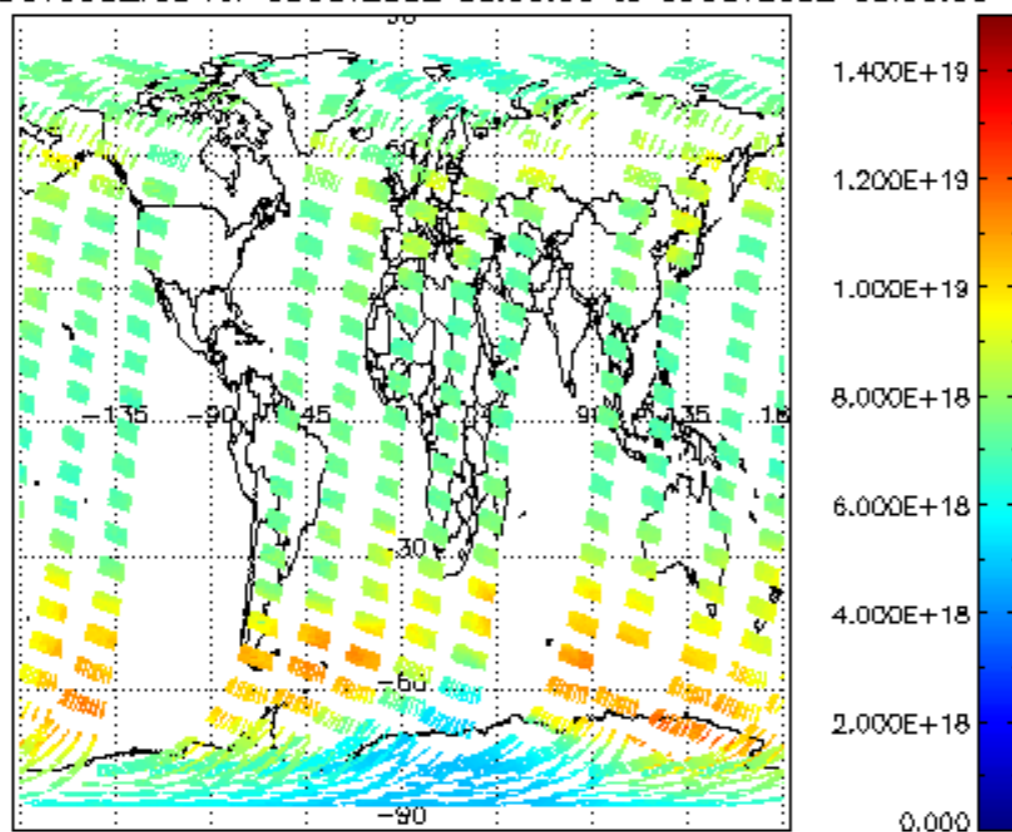
cloud\_flags for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



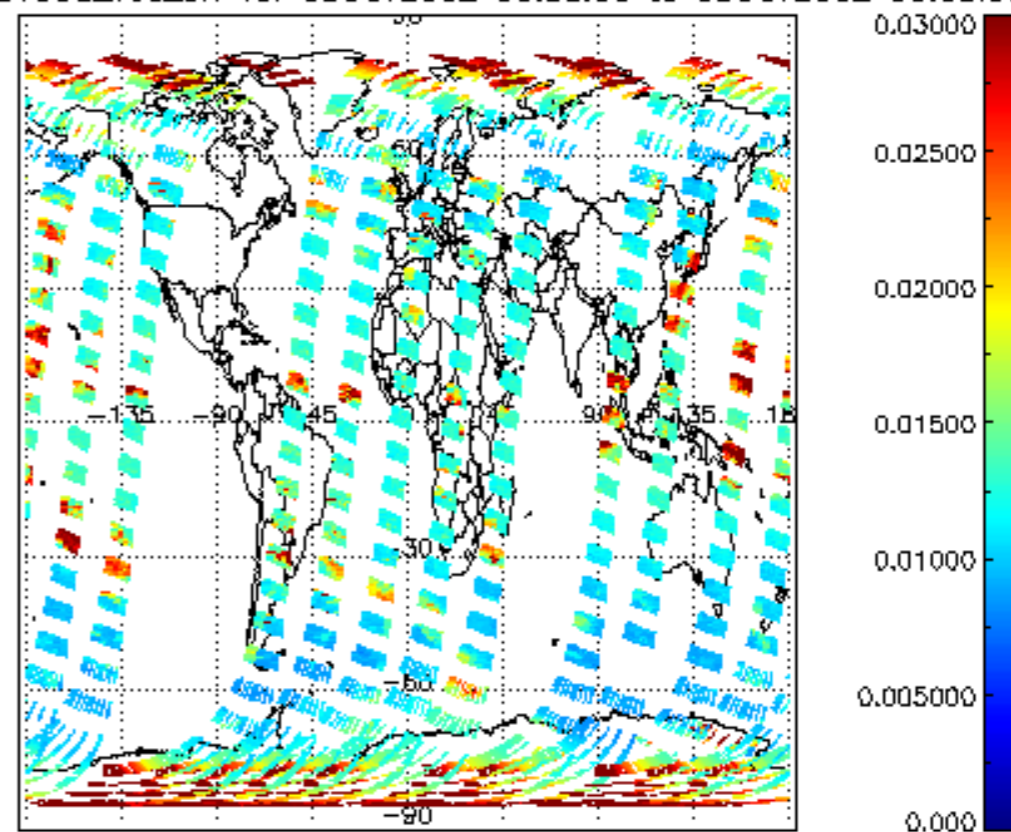




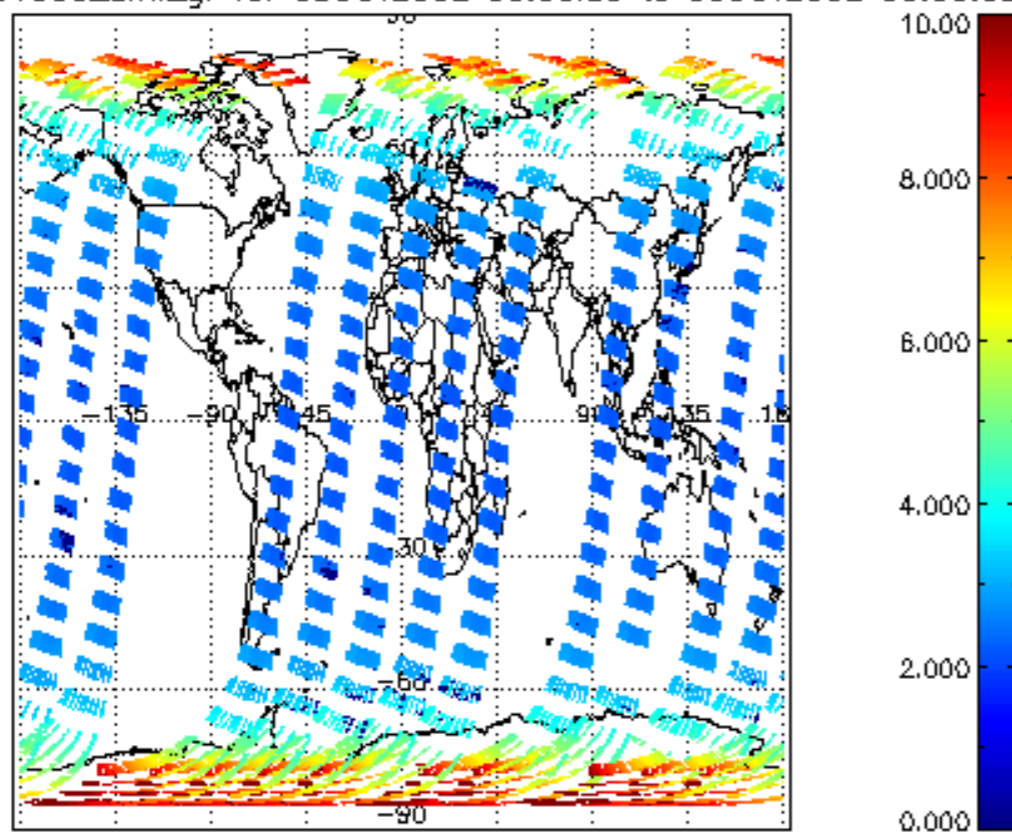
SCIOL2P\_NADUV003\_vcd for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



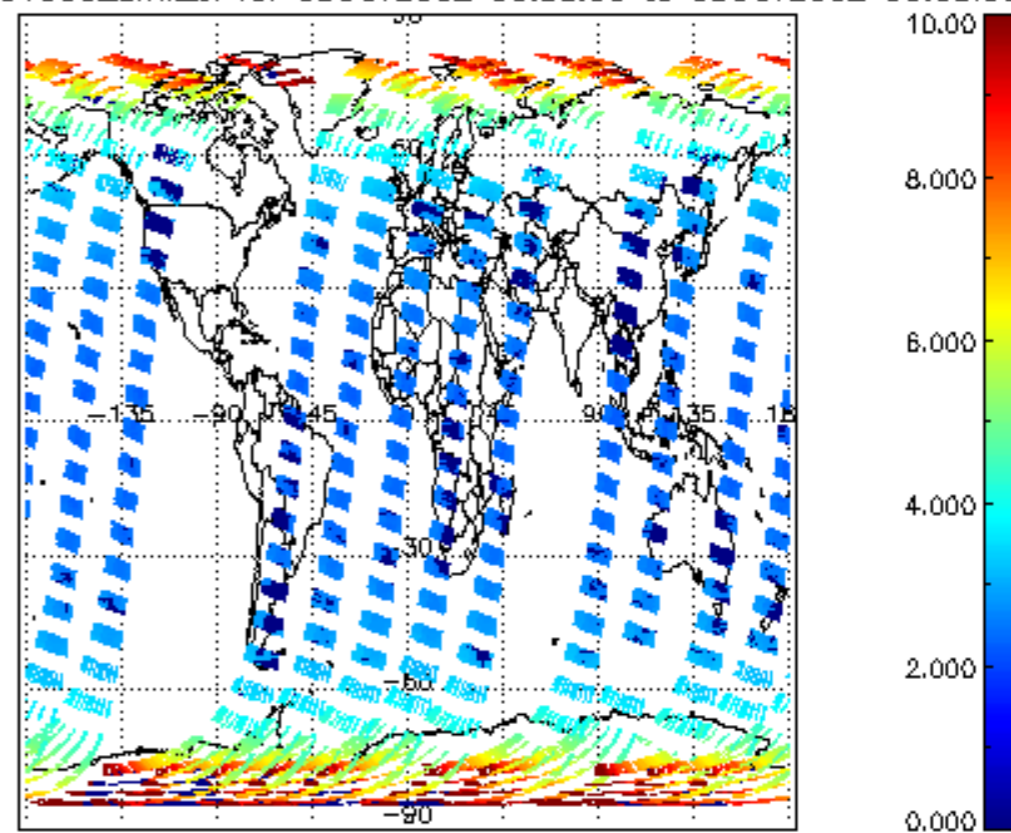
SCIOL2P\_NADUV003\_vcd\_err for 08OCT2002 00:00:00 to 09OCT2002 00:00:00

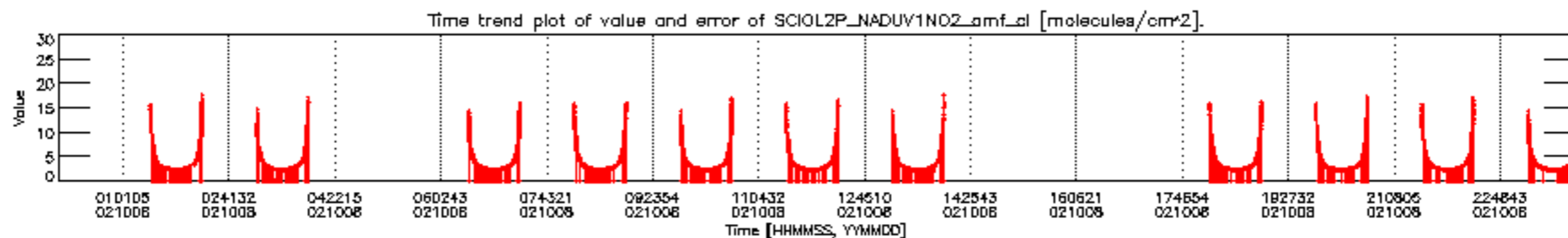
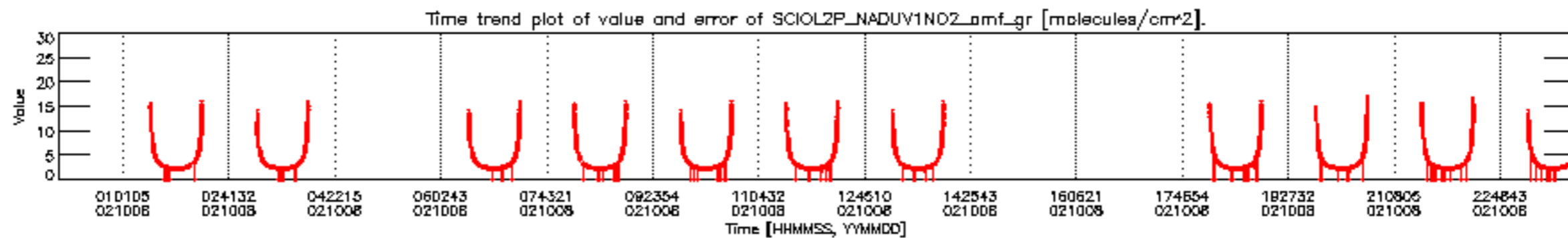
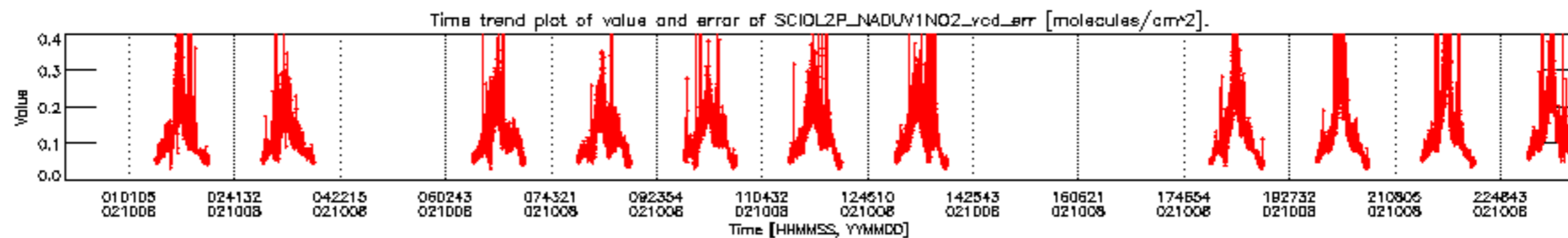
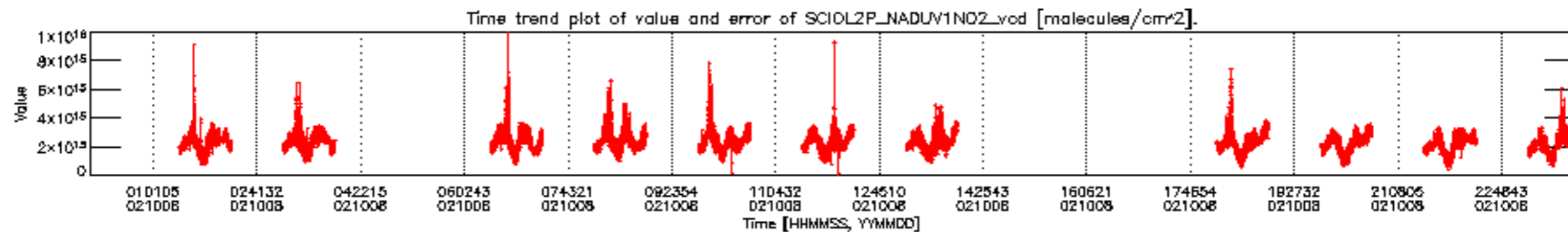


SCIOL2P\_NADUV003\_amf\_gr for 08OCT2002 00:00:00 to 09OCT2002 00:00:00

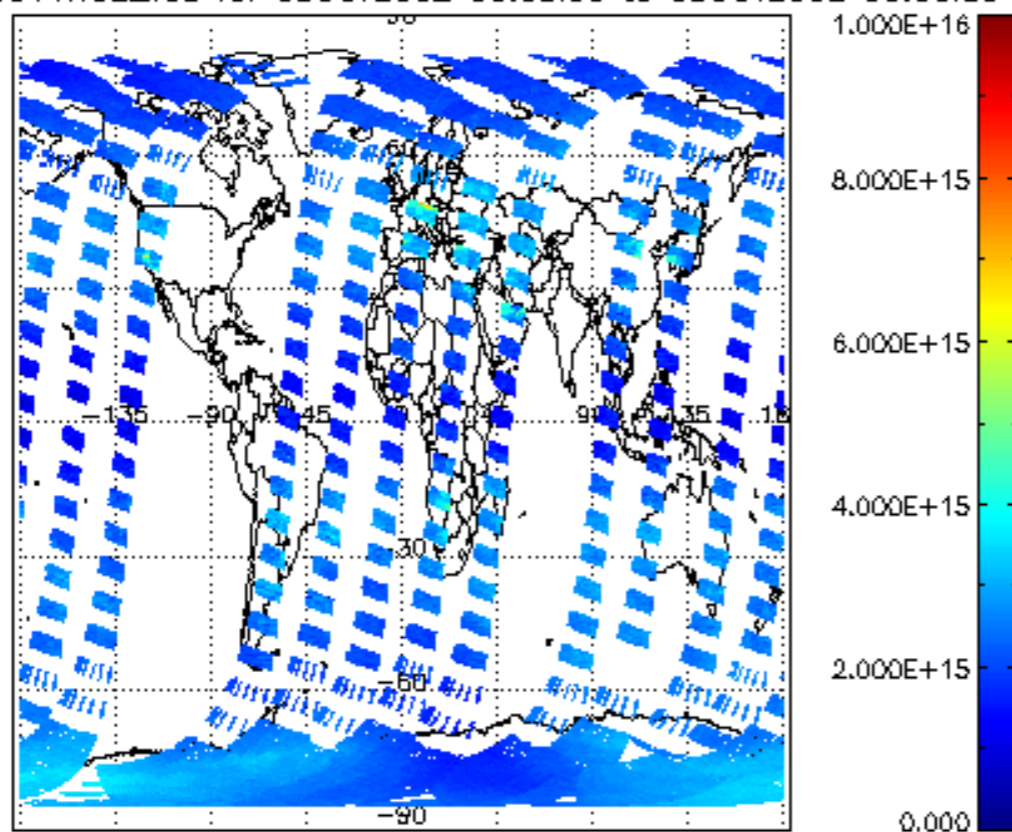


SCIOL2P\_NADUV003\_amf\_el for 08OCT2002 00:00:00 to 09OCT2002 00:00:00

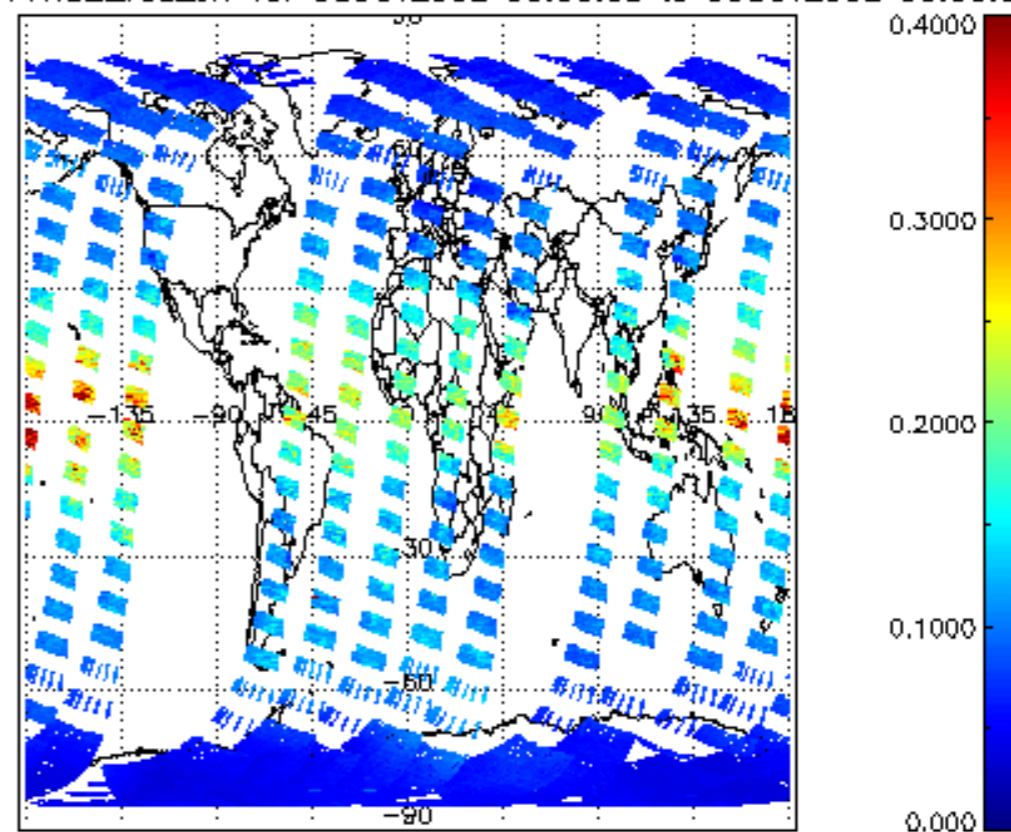




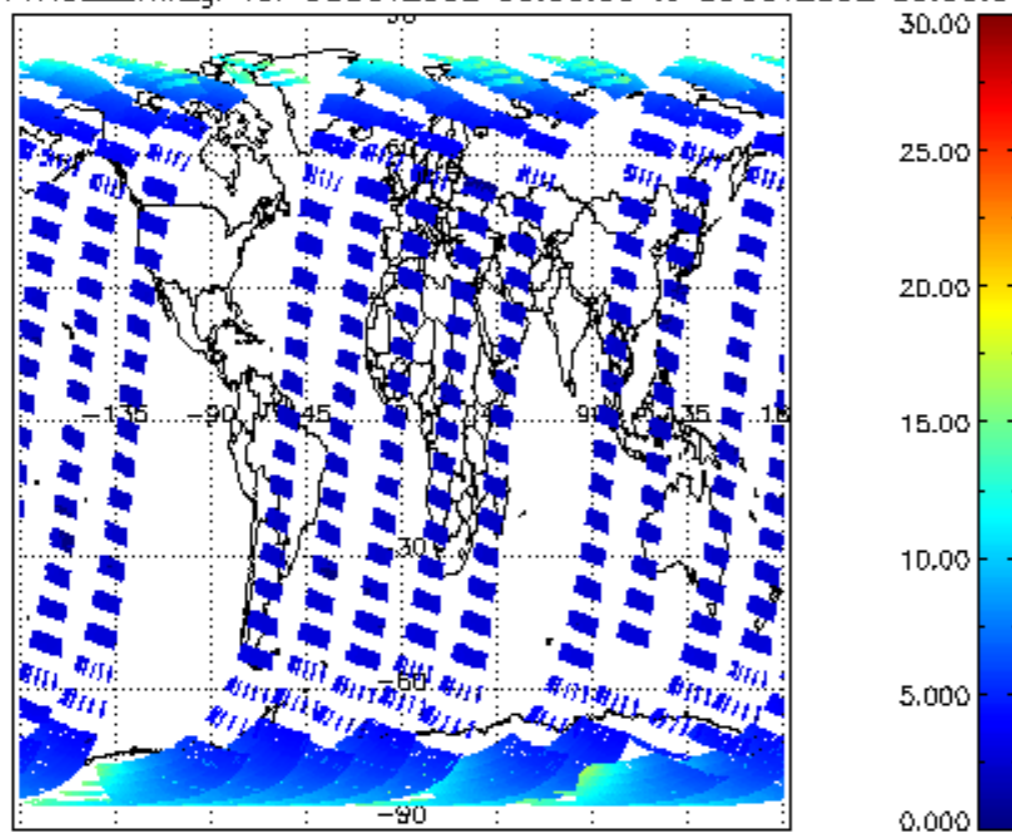
SCIOL2P\_NADUV1NO2\_vcd for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



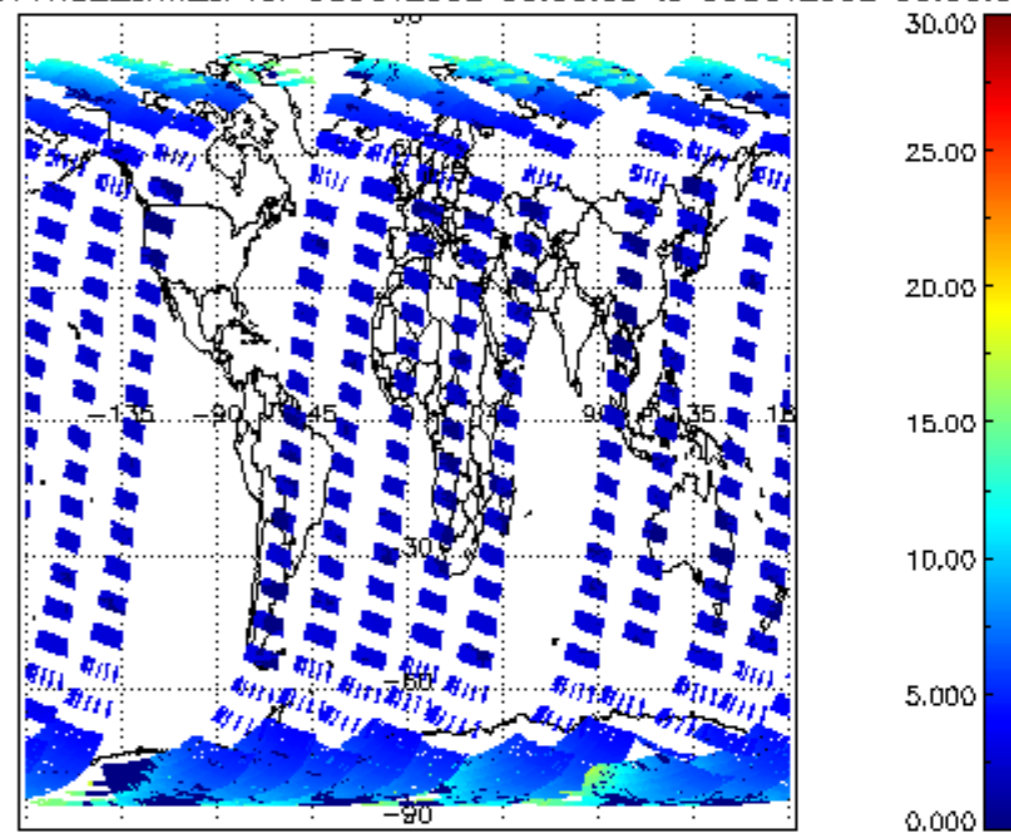
iCIOL2P\_NADUV1NO2\_vcd\_err for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



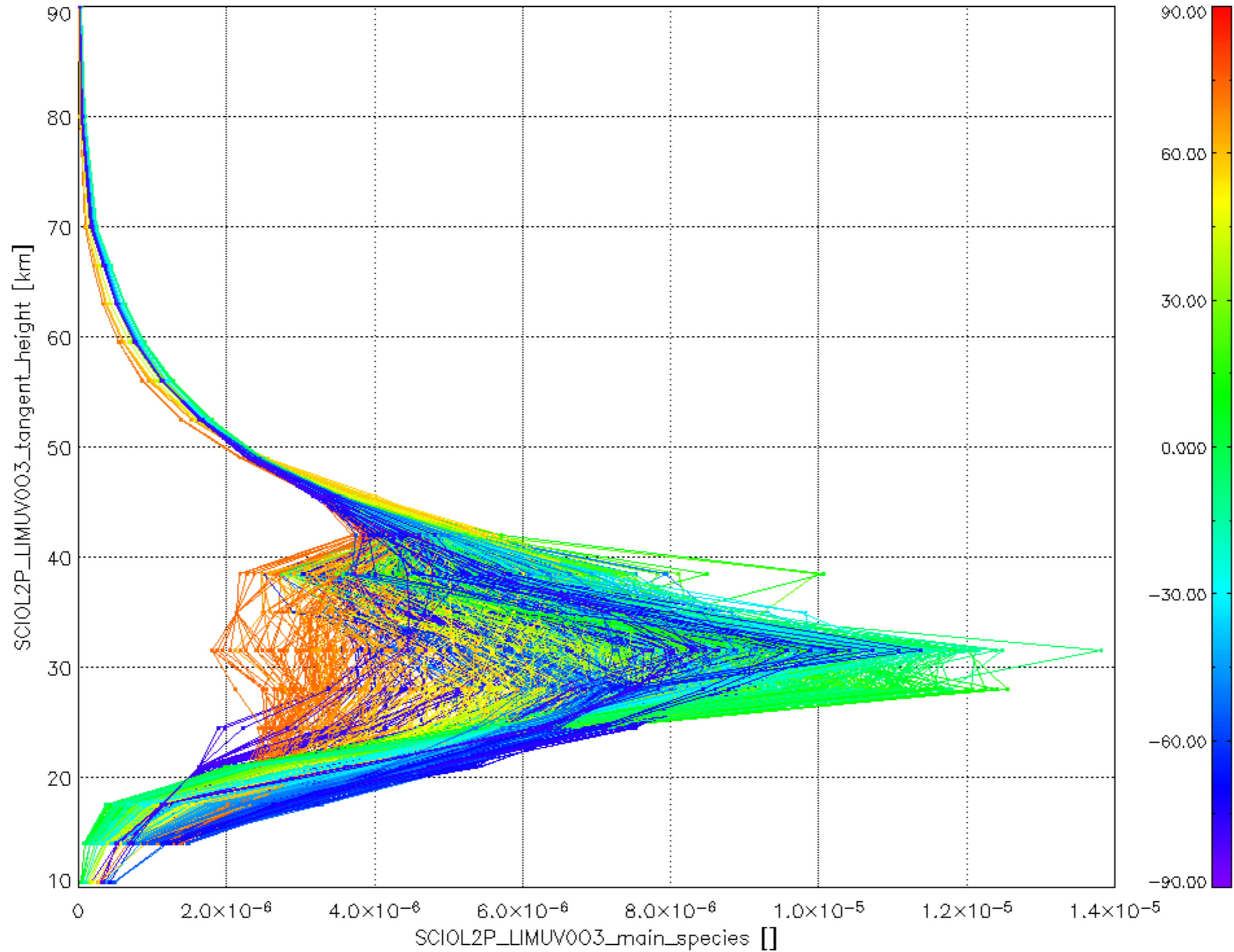
iCIOL2P\_NADUV1NO2\_amf\_gr for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



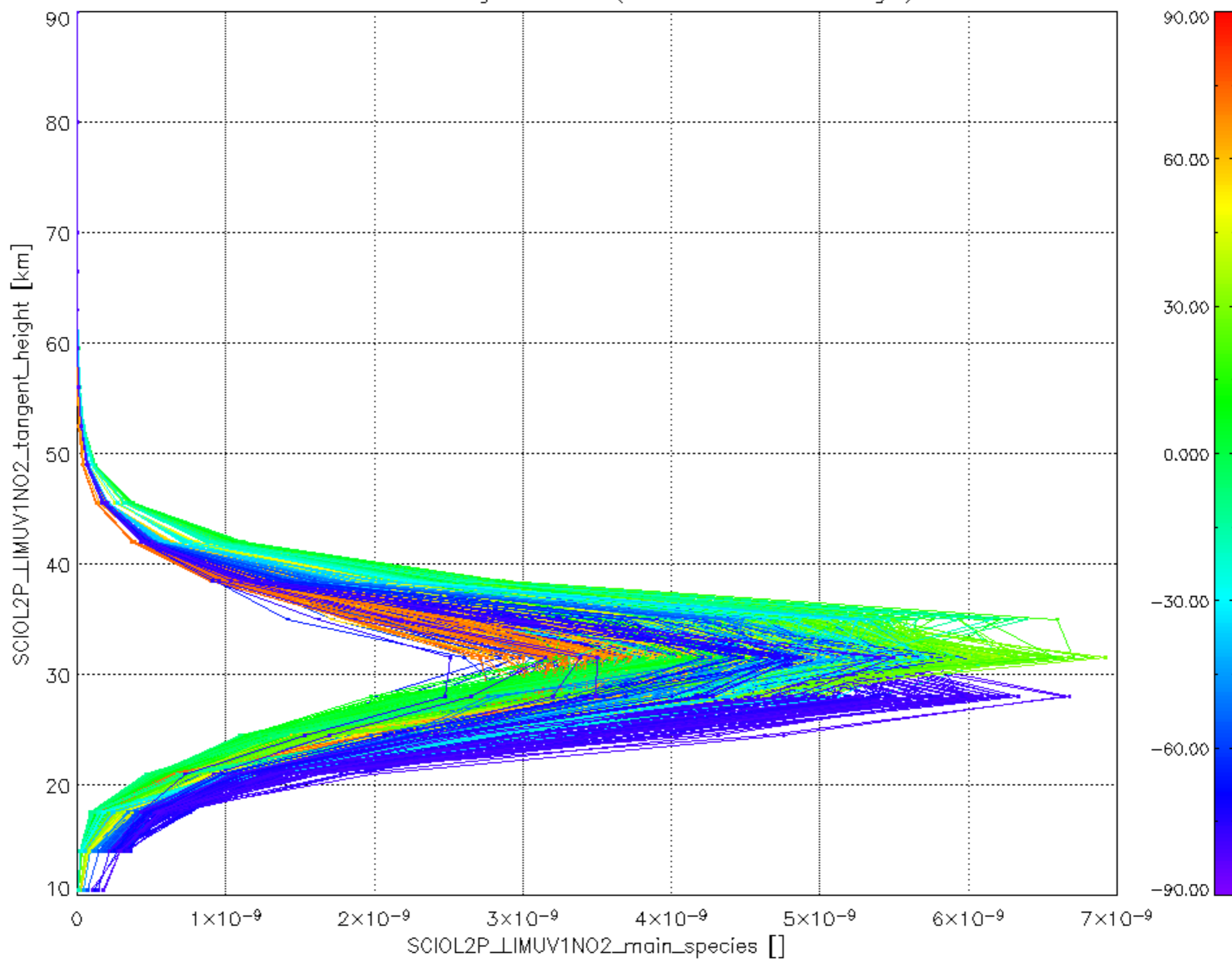
iCIOL2P\_NADUV1NO2\_amf\_cl for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



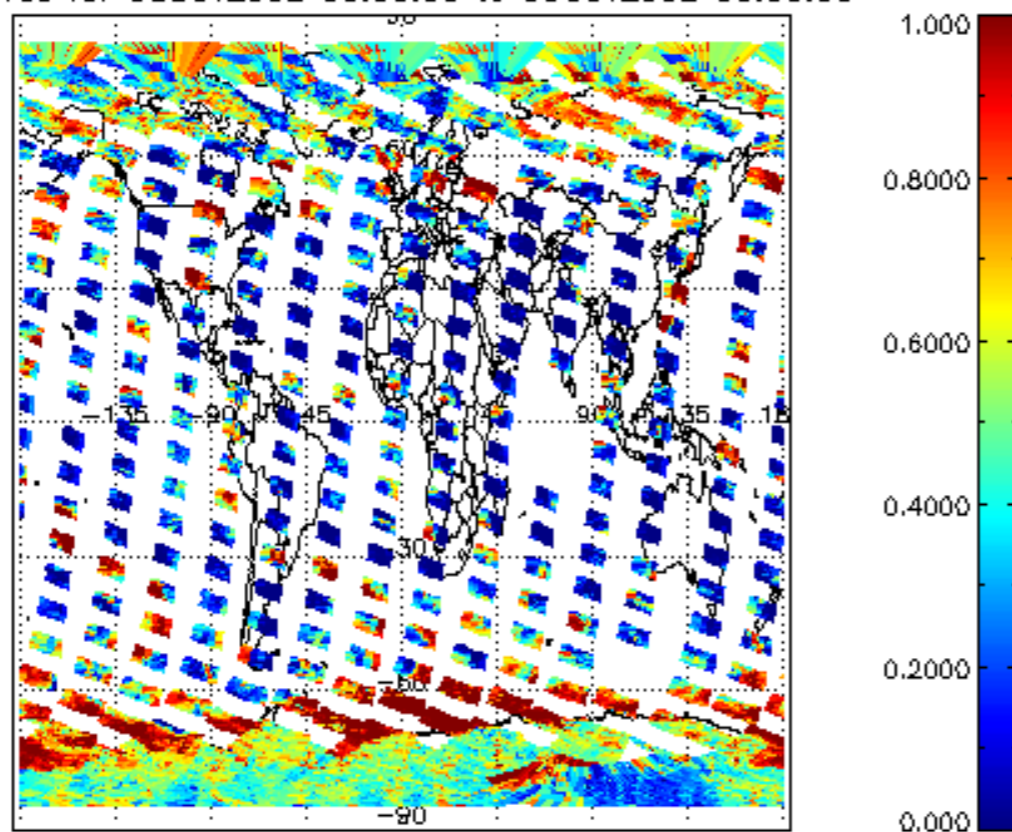
Plot of SCIOL2P\_LIMUV003\_main\_species.tang\_vmr vs. tangent height.  
 Colours indicate tangent latitude (see colour bar on the right).



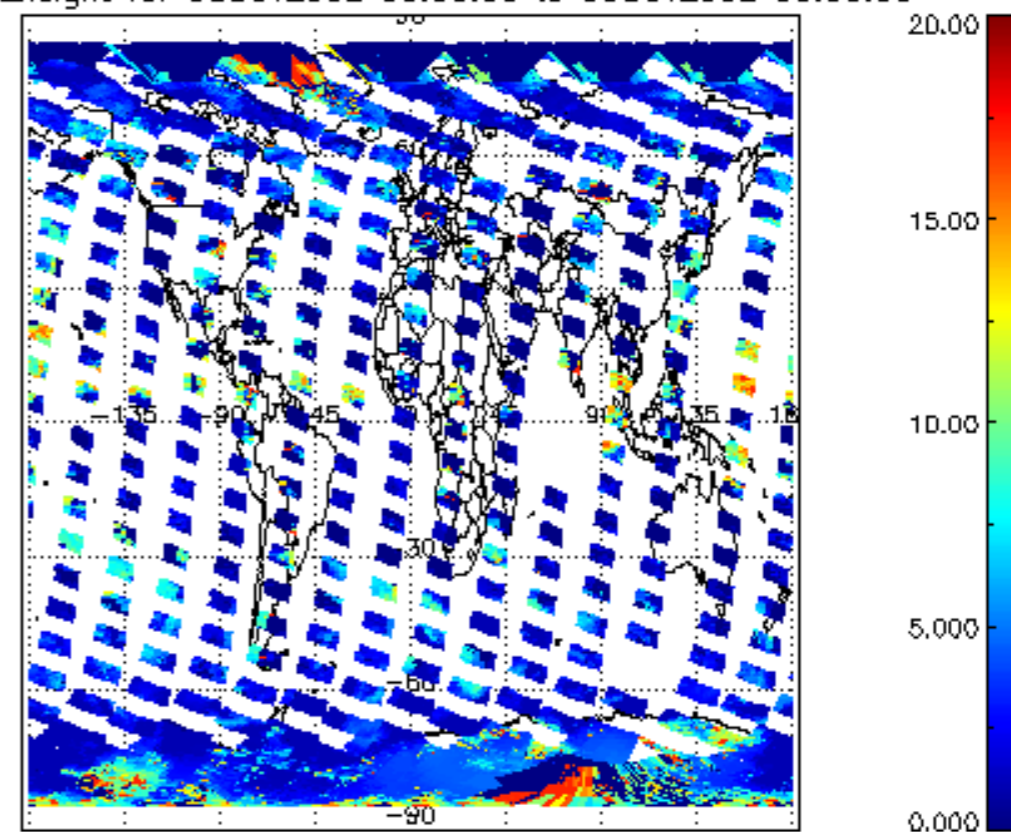
Plot of SCIOL2P\_LIMUV1N02\_main\_species.tang\_vmr vs. tangent height.  
 Colours indicate tangent latitude (see colour bar on the right).



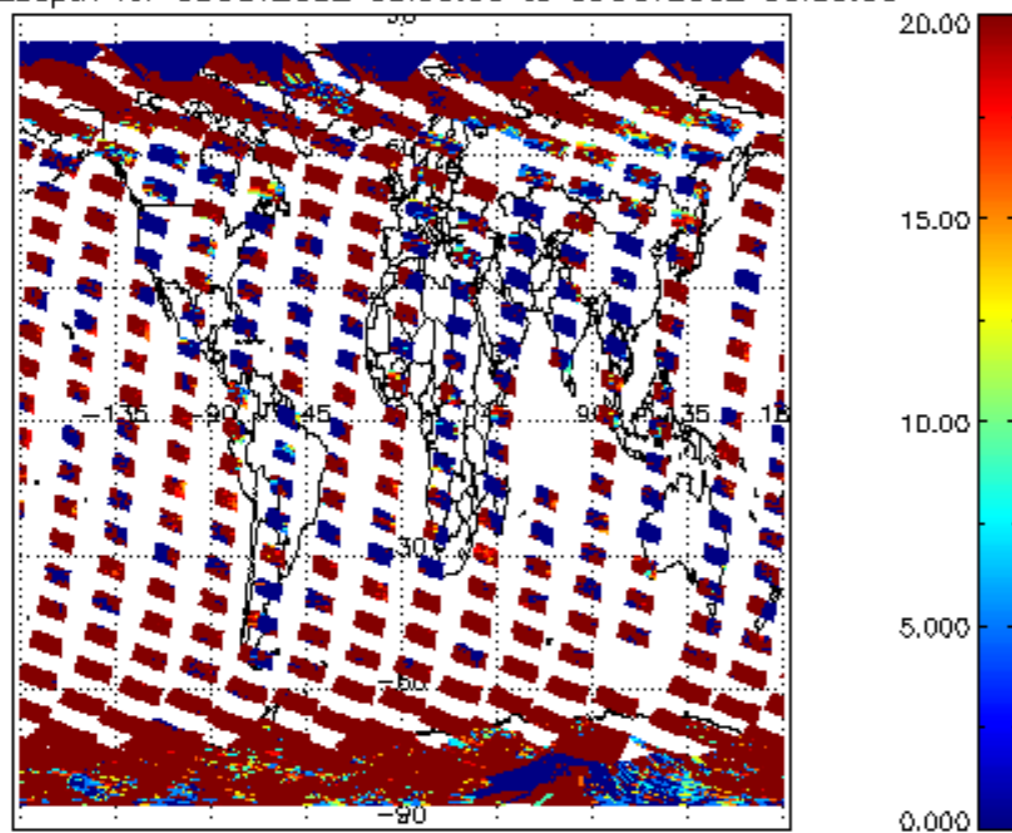
cl\_frac for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



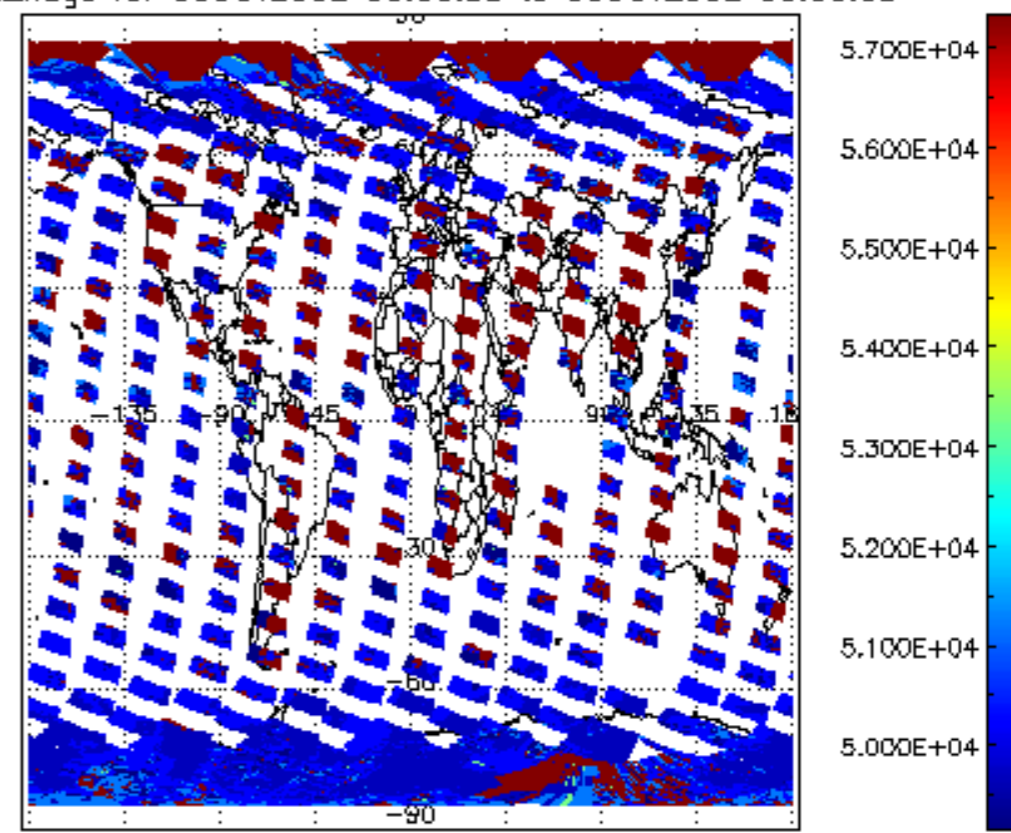
cl\_top\_height for 08OCT2002 00:00:00 to 09OCT2002 00:00:00

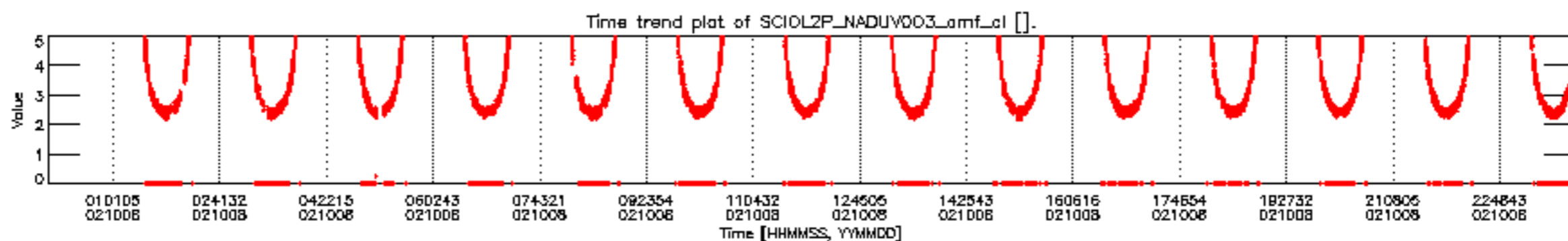
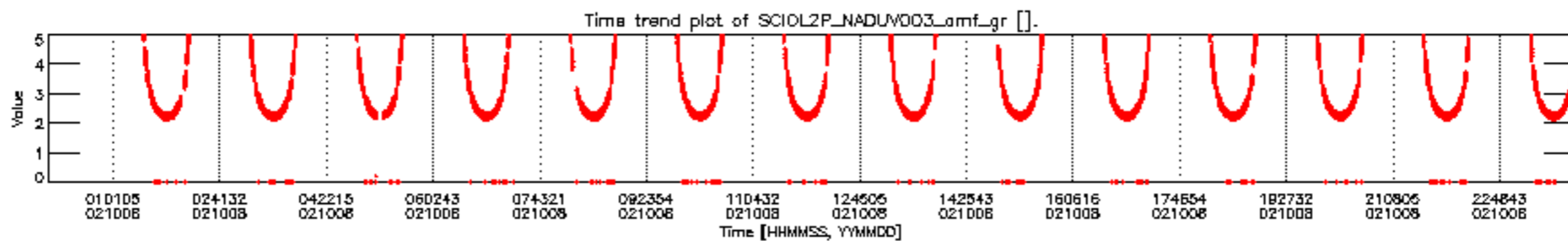
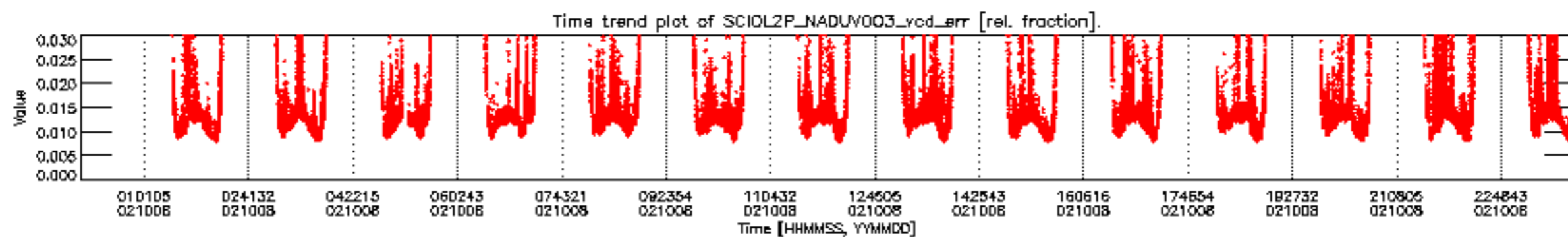
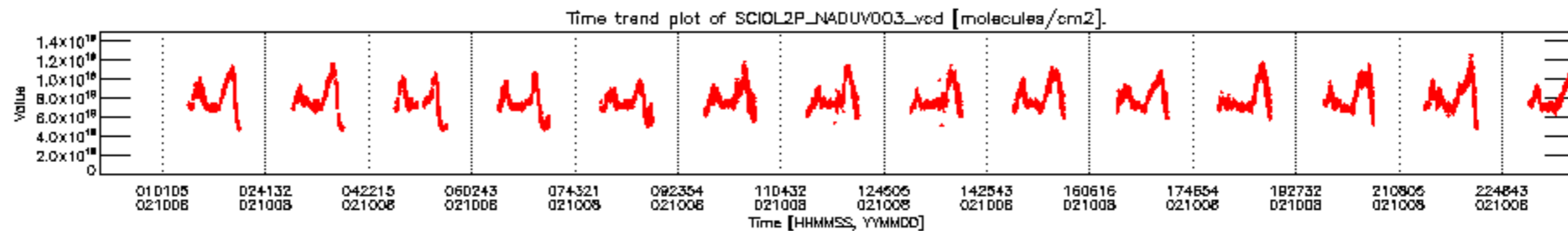


cl\_opt\_depth for 08OCT2002 00:00:00 to 09OCT2002 00:00:00

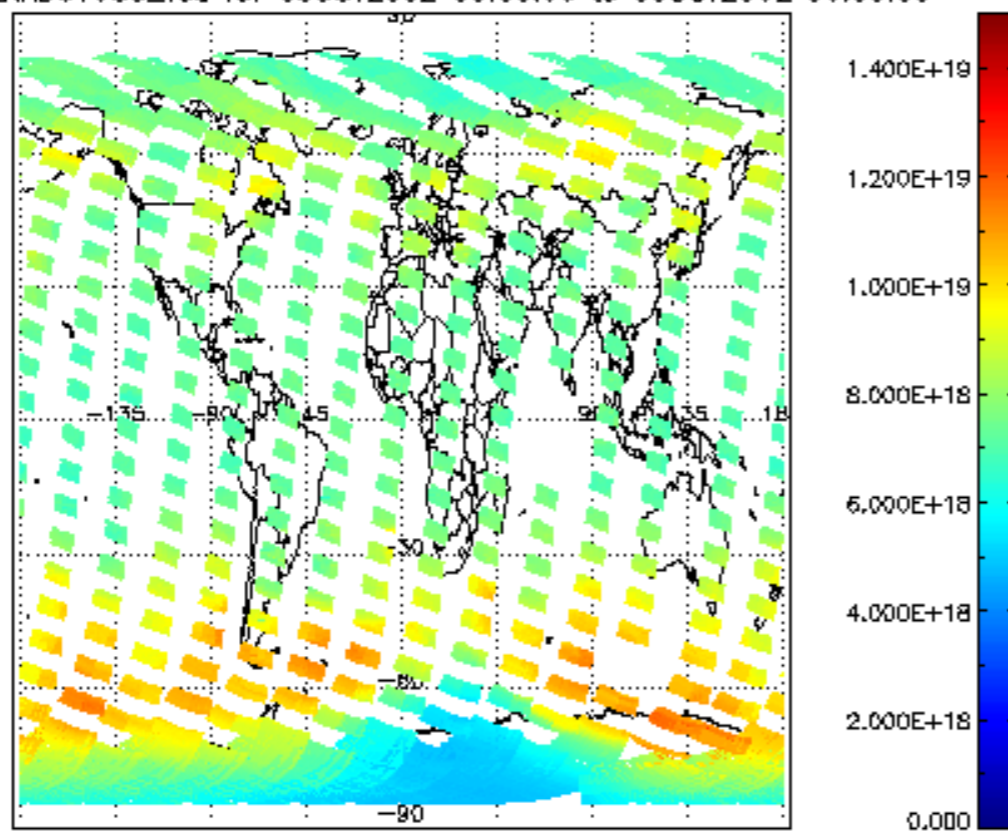


cloud\_flags for 08OCT2002 00:00:00 to 09OCT2002 00:00:00

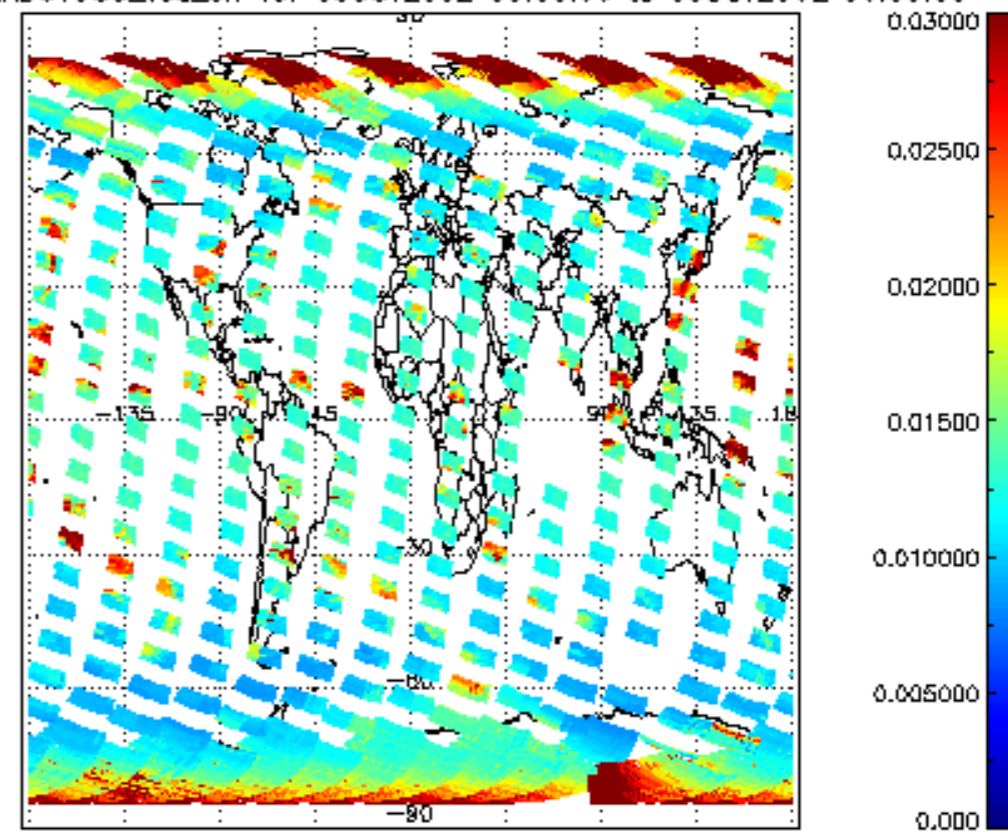




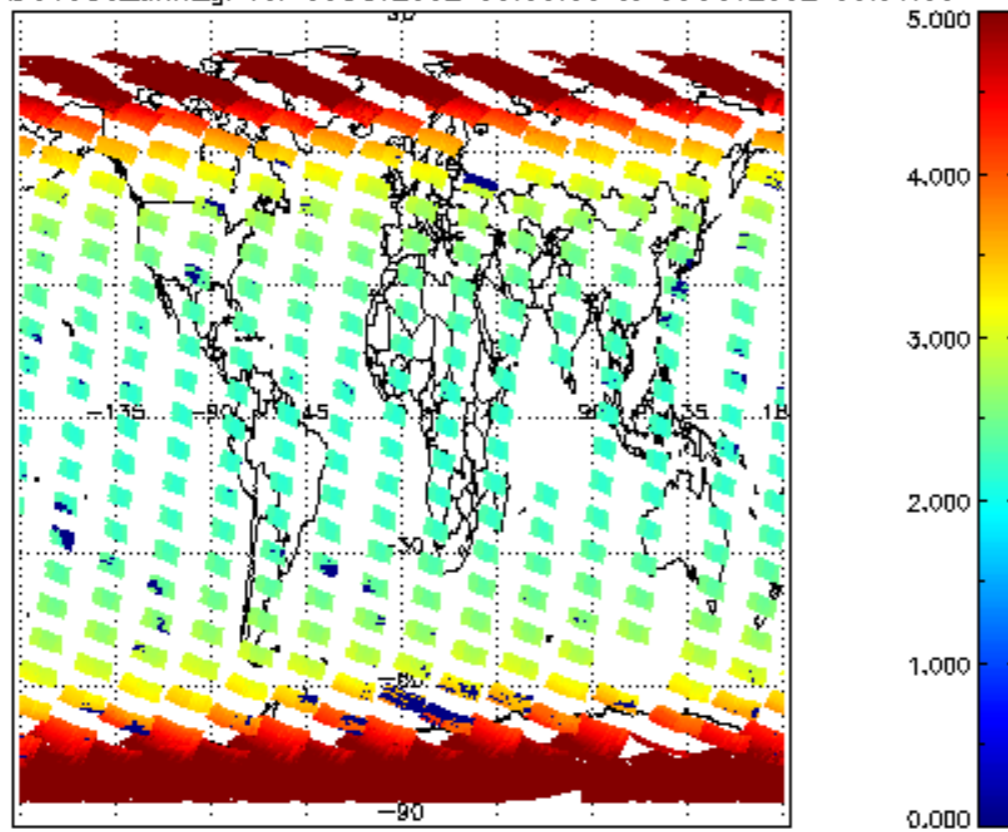
SCIOL2P\_NADUV003\_vcd for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



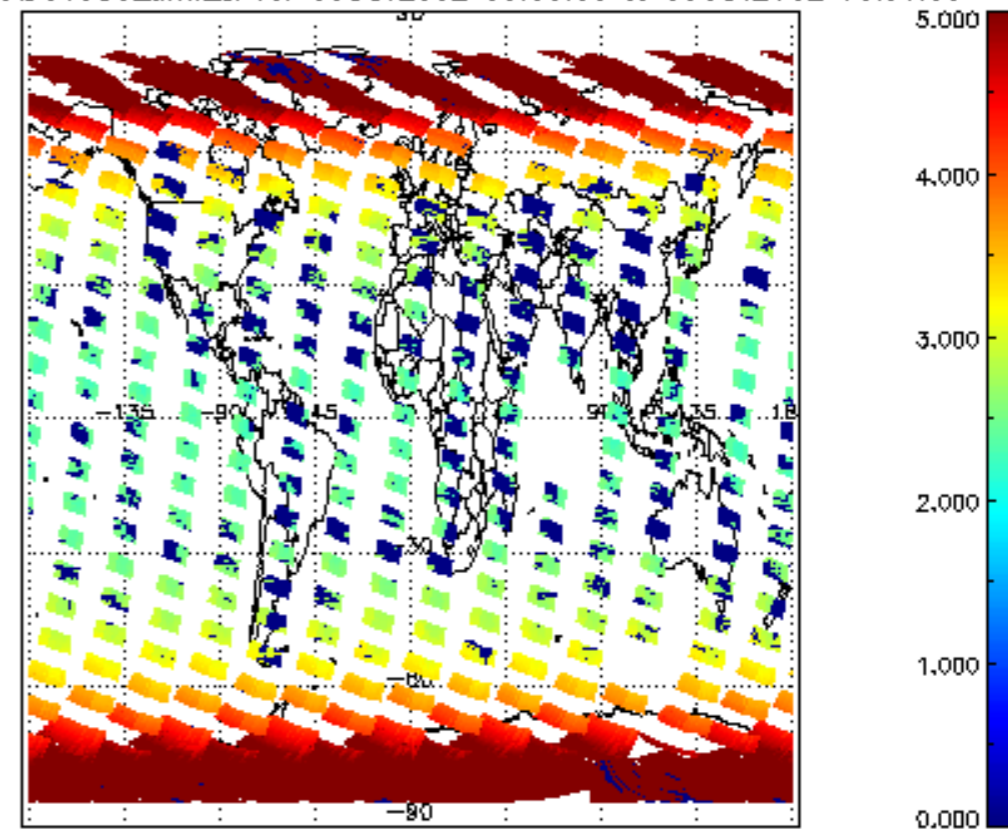
SCIOL2P\_NADUV003\_vcd\_err for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



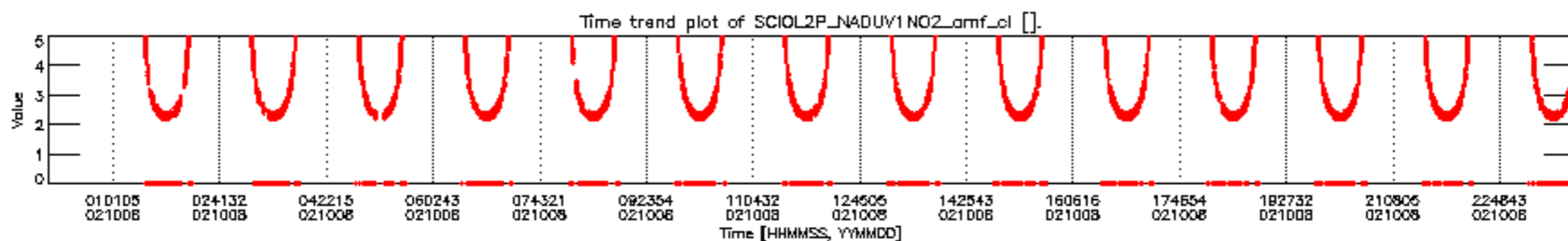
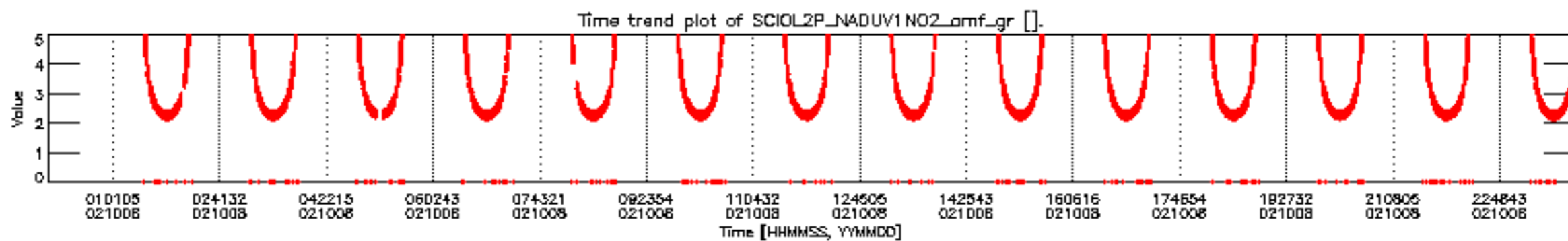
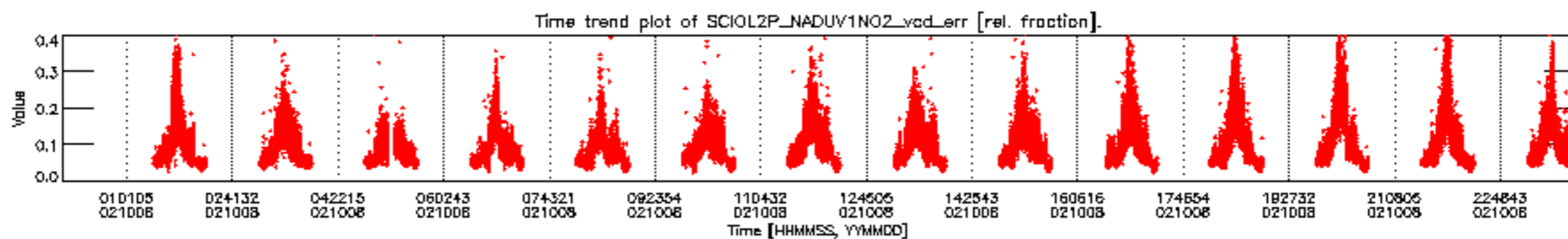
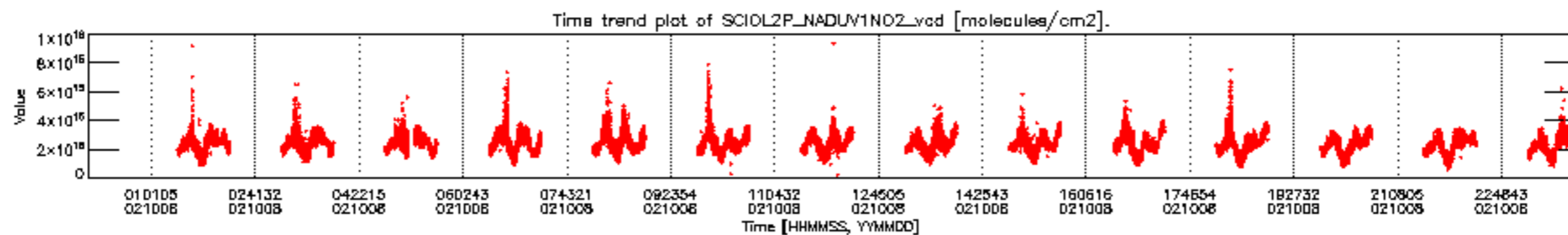
SCIOL2P\_NADUV003\_amf\_gr for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



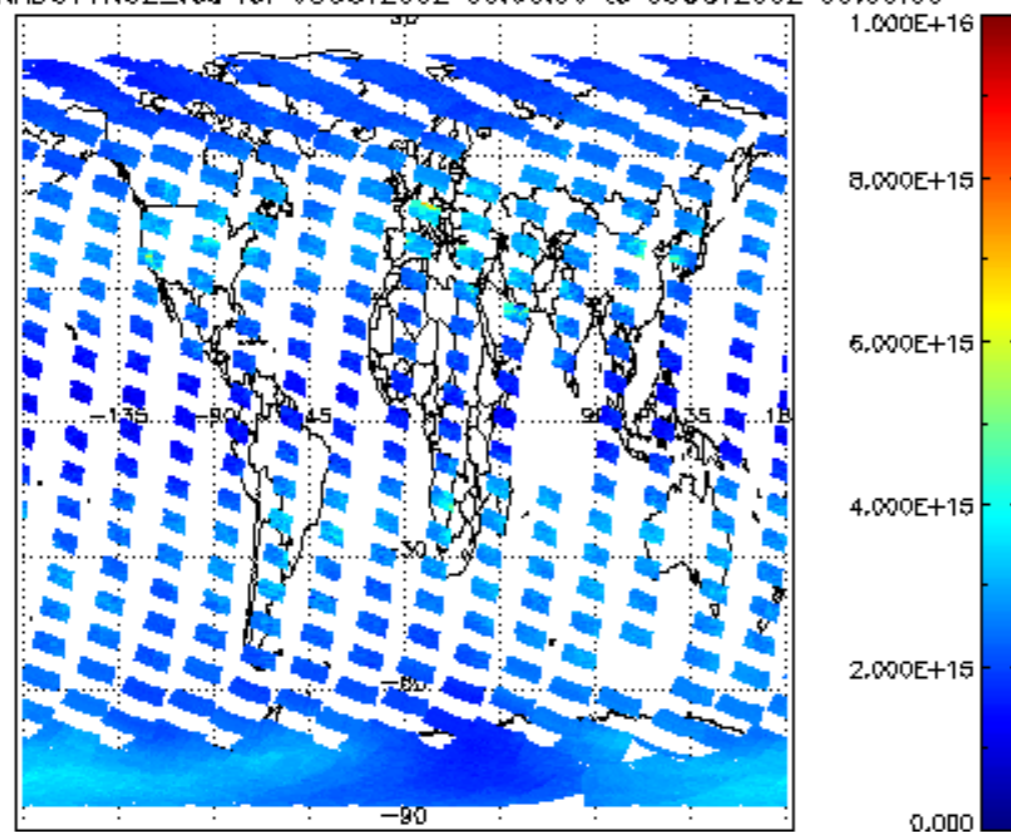
SCIOL2P\_NADUV003\_amf\_cl for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



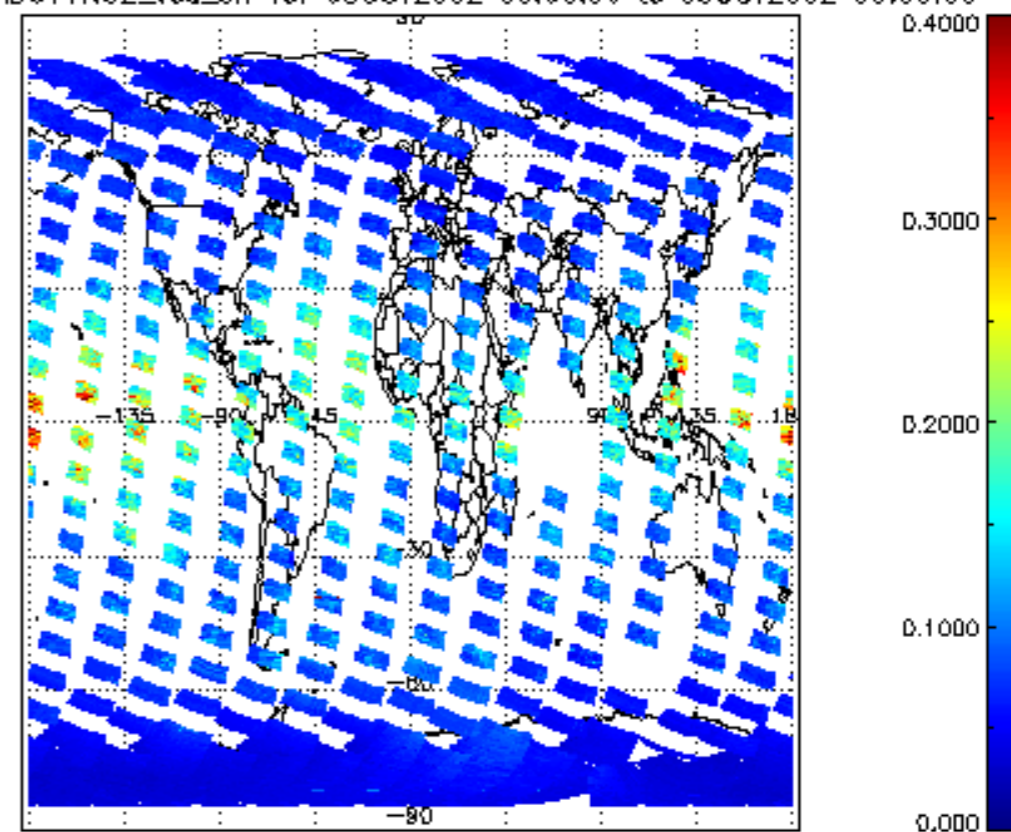




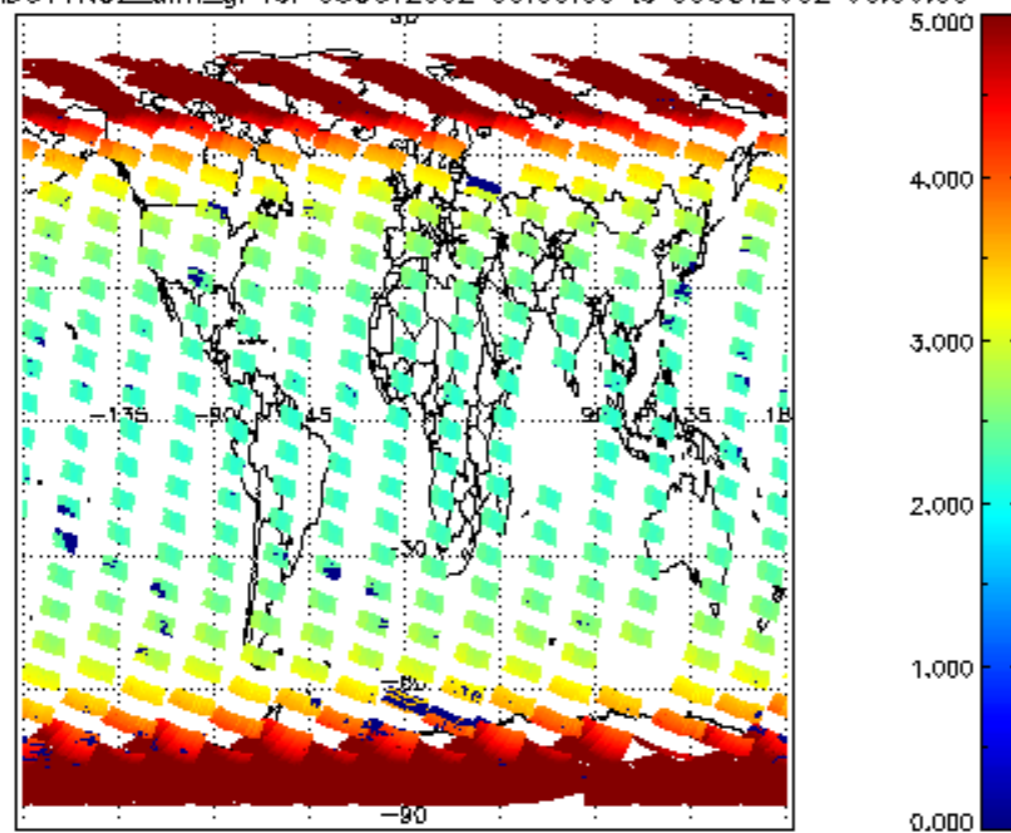
SCIOL2P\_NADUV1NO2\_vcd for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



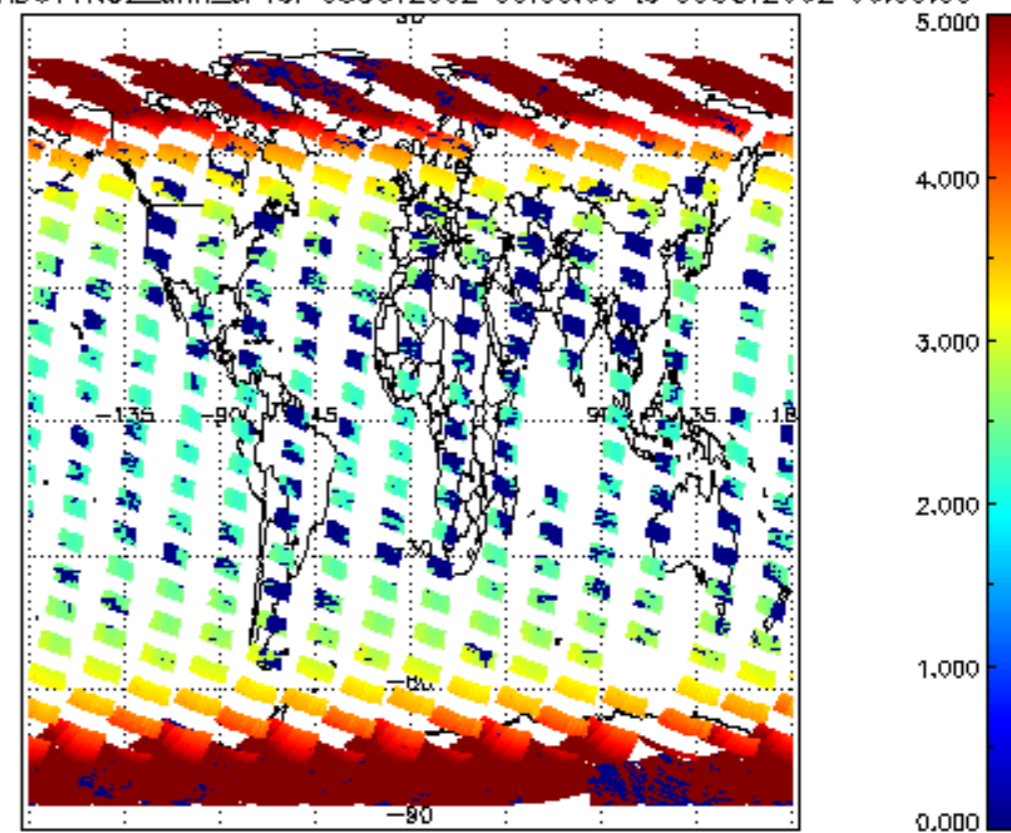
SCIOL2P\_NADUV1NO2\_vcd\_err for 08OCT2002 00:00:00 to 09OCT2002 00:00:00

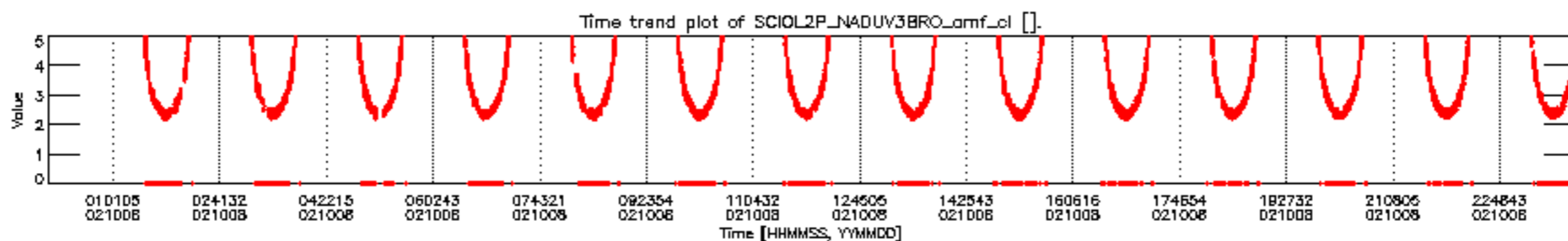
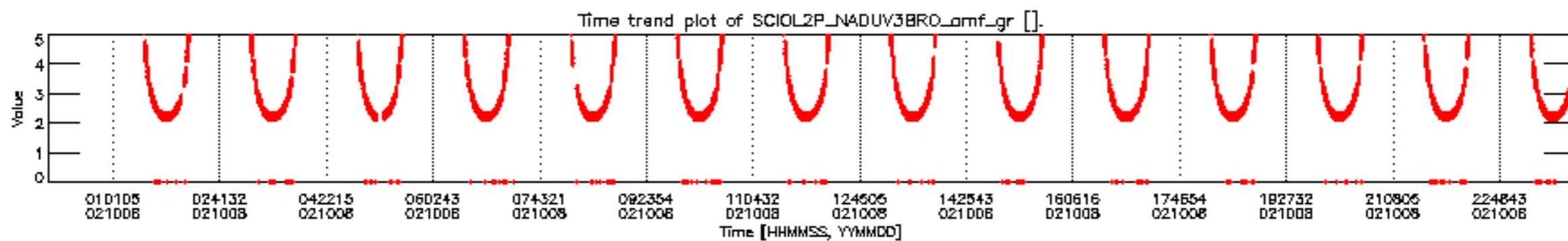
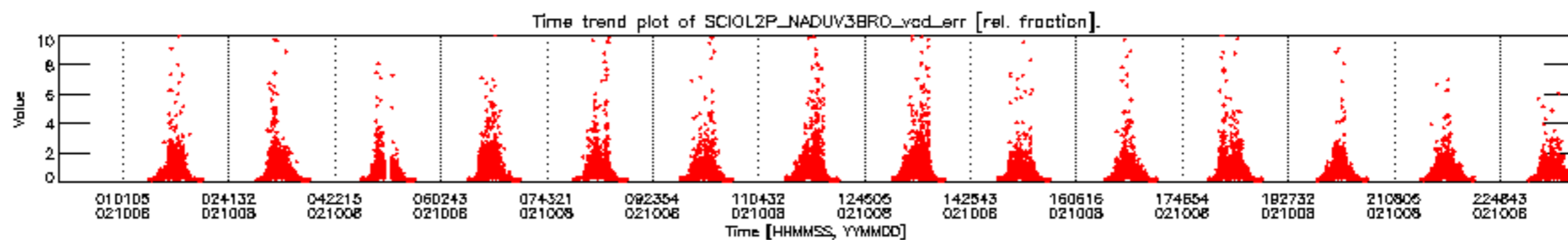
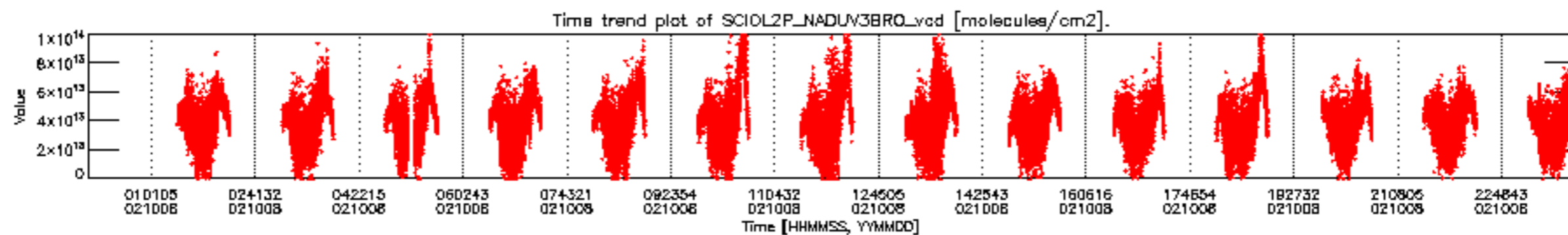


SCIOL2P\_NADUV1NO2\_amf\_gr for 08OCT2002 00:00:00 to 09OCT2002 00:00:00

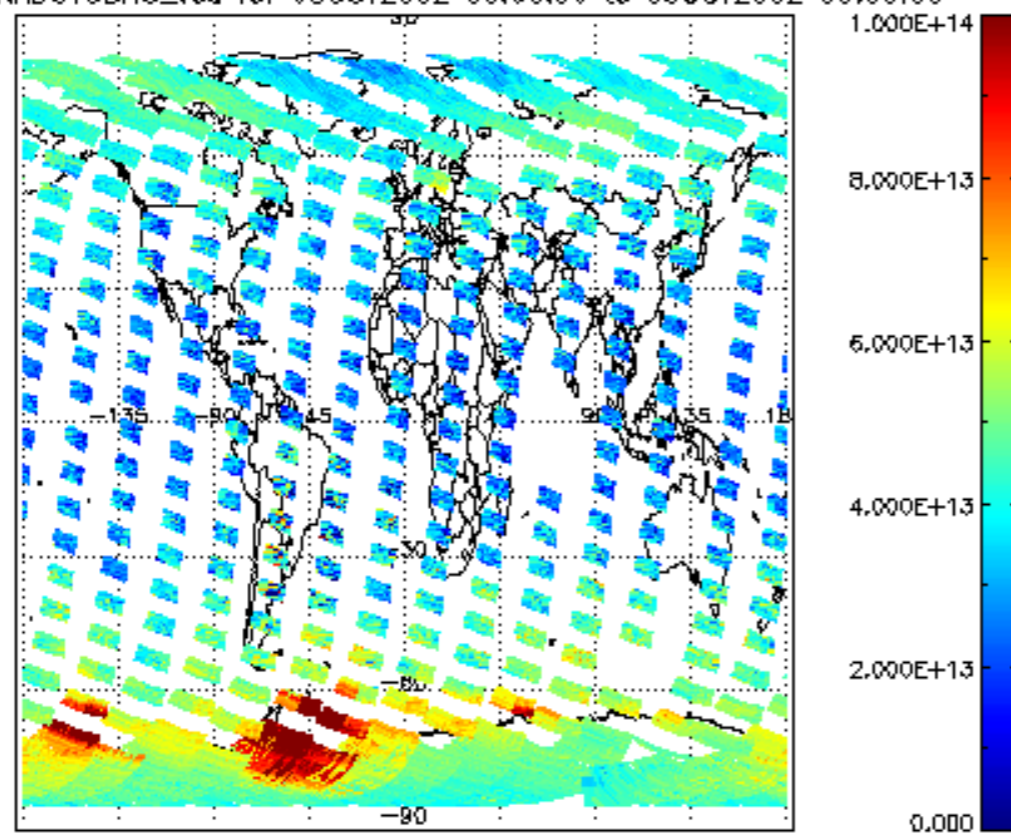


SCIOL2P\_NADUV1NO2\_amf\_cl for 08OCT2002 00:00:00 to 09OCT2002 00:00:00

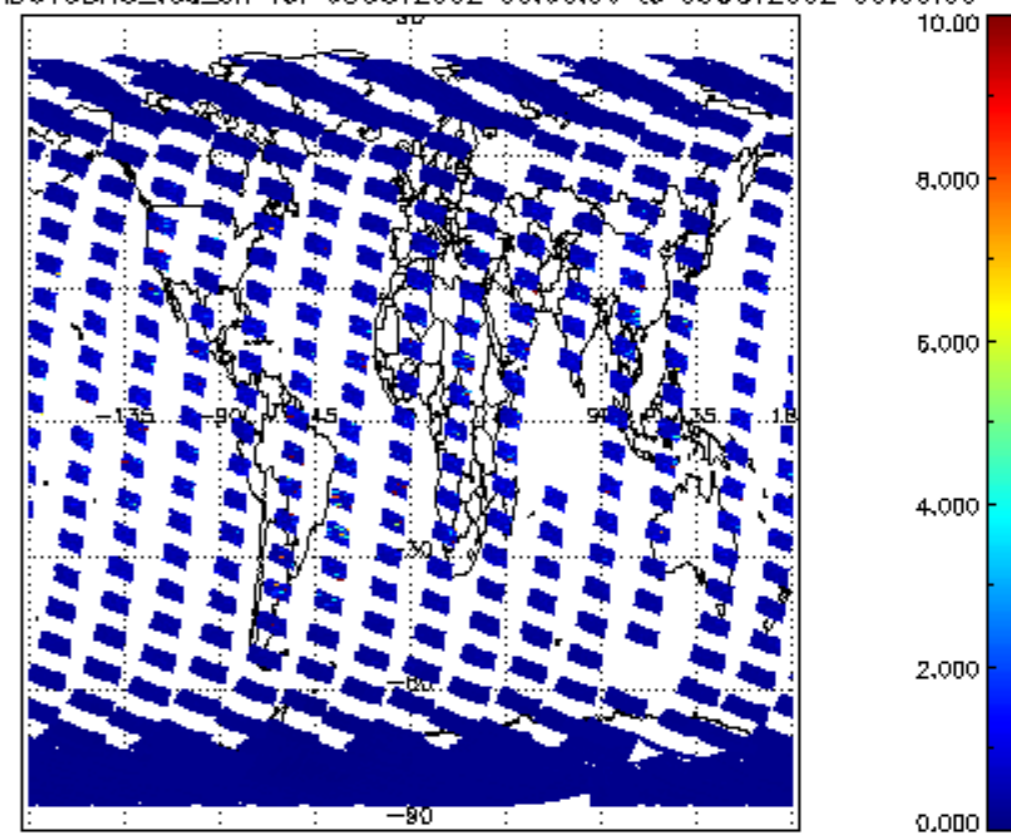




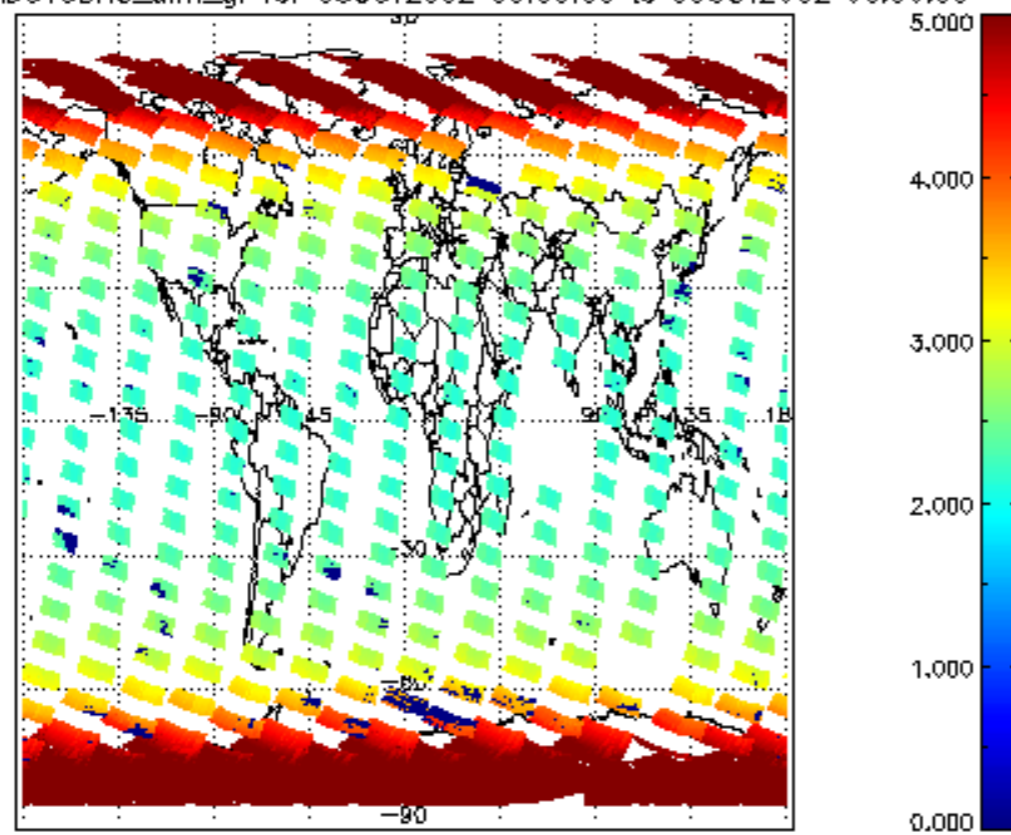
SCIOL2P\_NADUV3BRO\_vcd for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



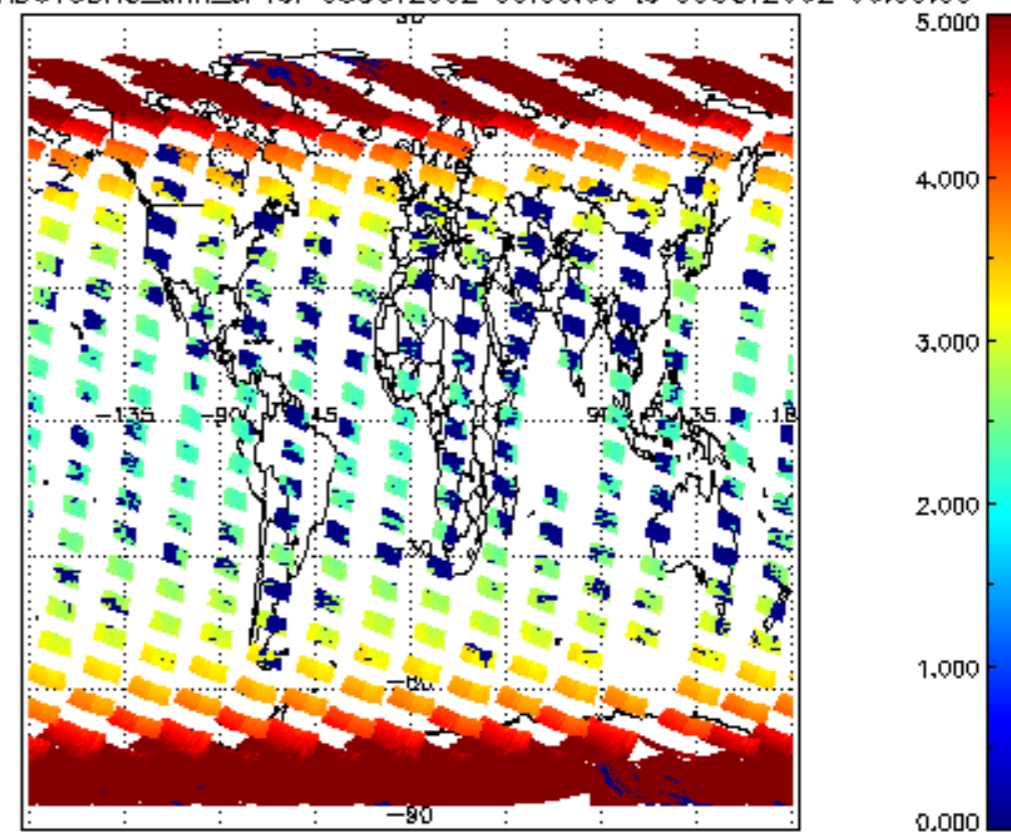
SCIOL2P\_NADUV3BRO\_vcd\_err for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



SCIOL2P\_NADUV3BRO\_amf\_gr for 08OCT2002 00:00:00 to 09OCT2002 00:00:00

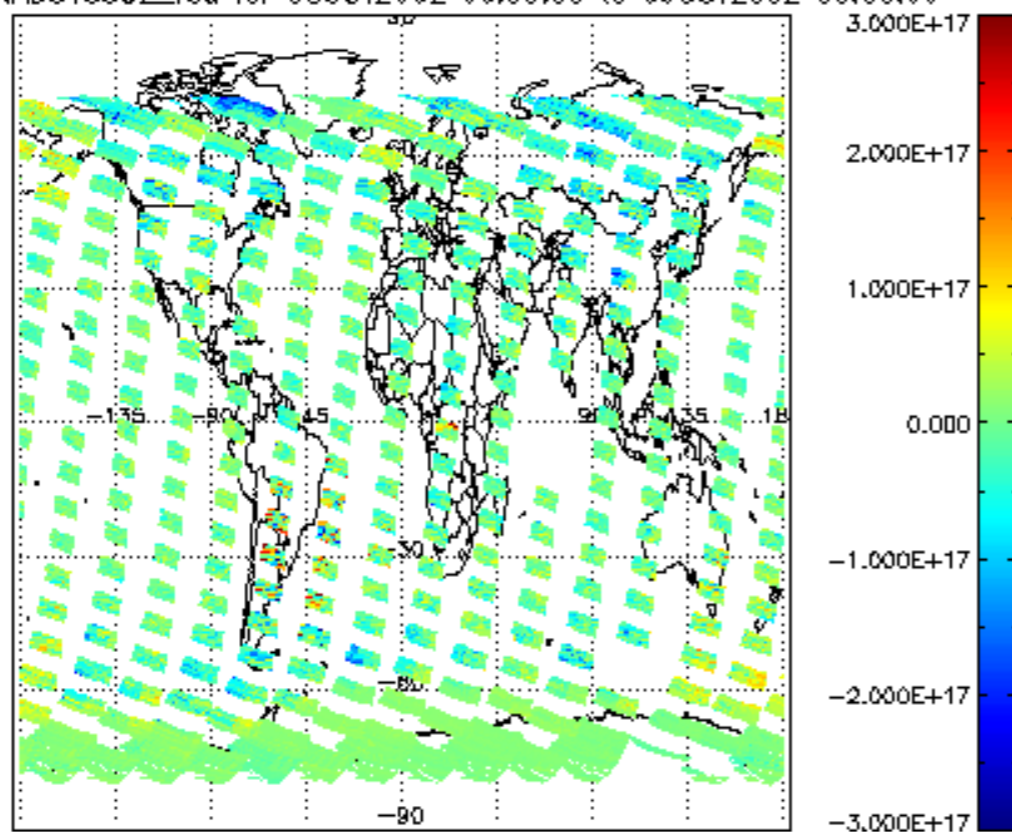


SCIOL2P\_NADUV3BRO\_amf\_cl for 08OCT2002 00:00:00 to 09OCT2002 00:00:00

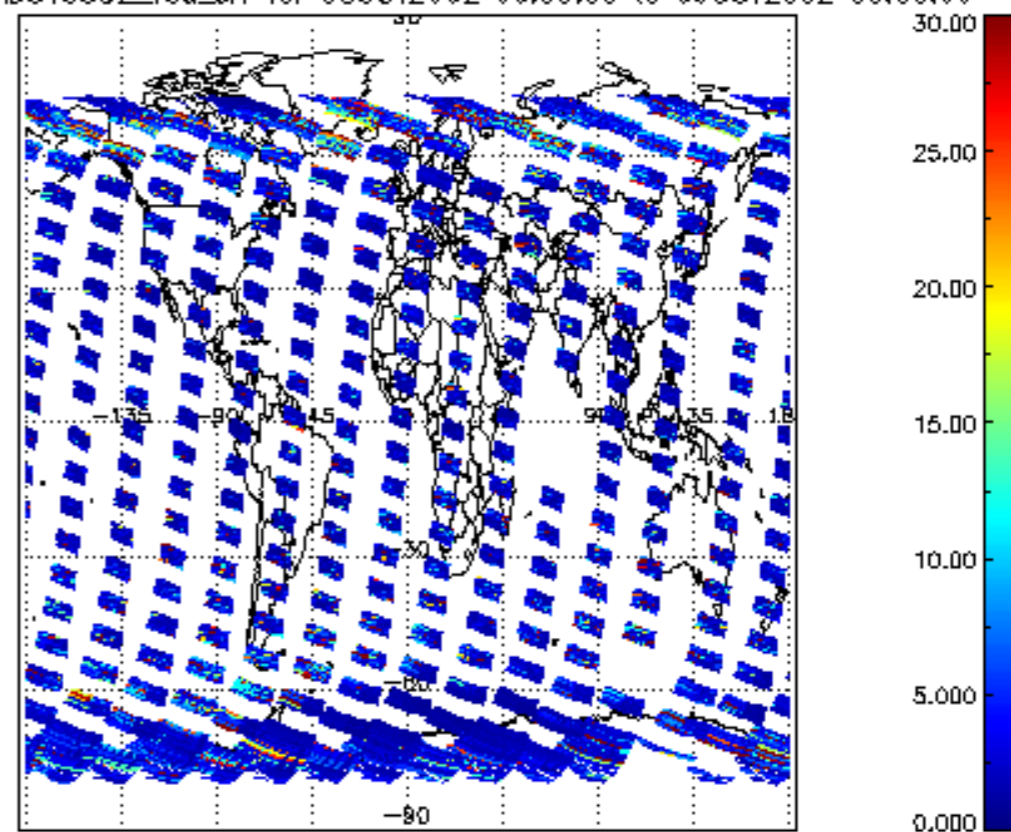




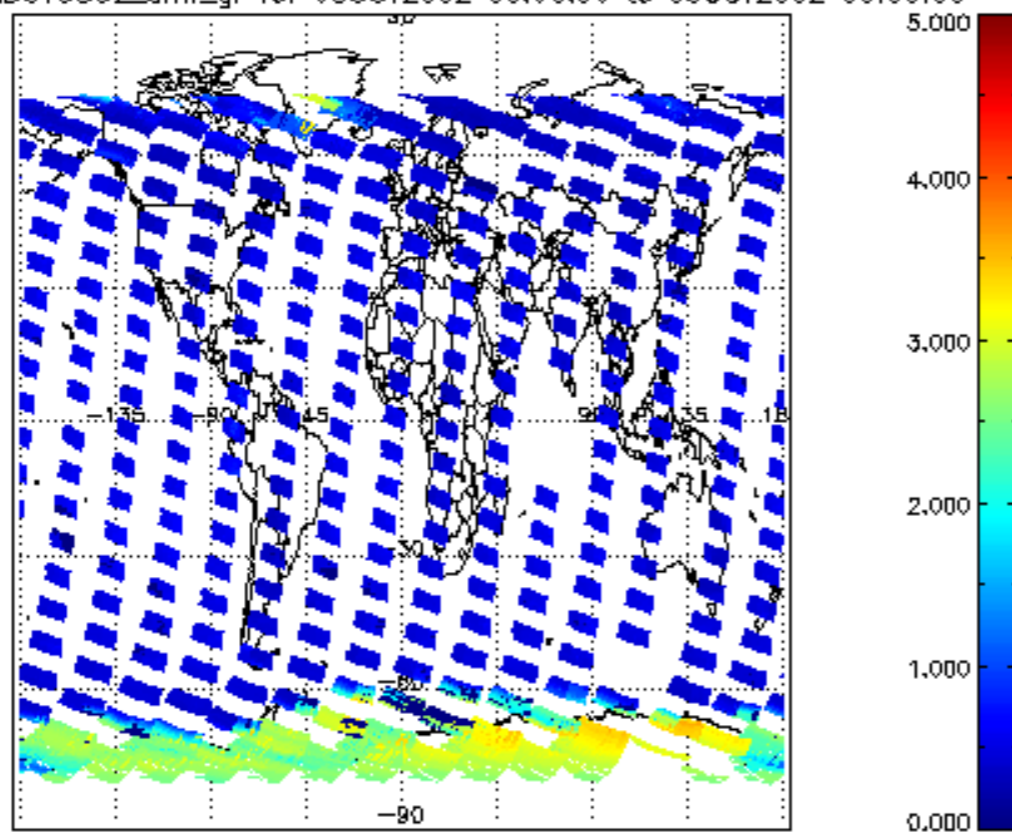
SCIOL2P\_NADUV5S02\_vcd for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



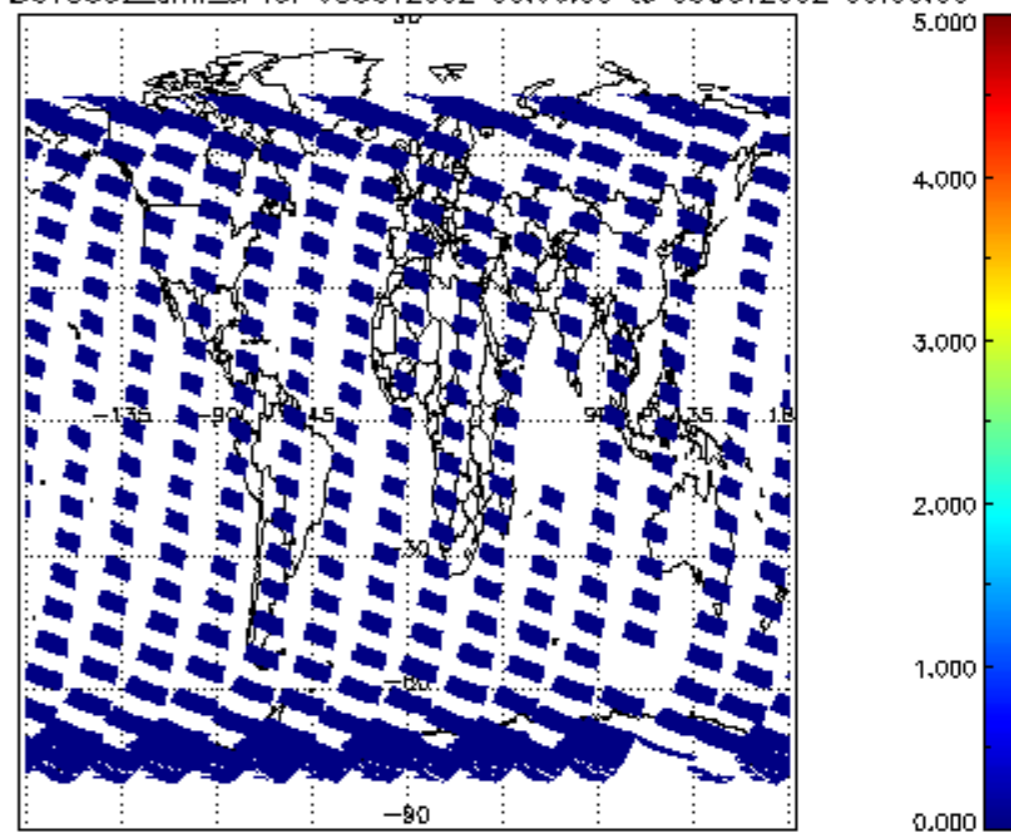
SCIOL2P\_NADUV5S02\_vcd\_err for 08OCT2002 00:00:00 to 09OCT2002 00:00:00

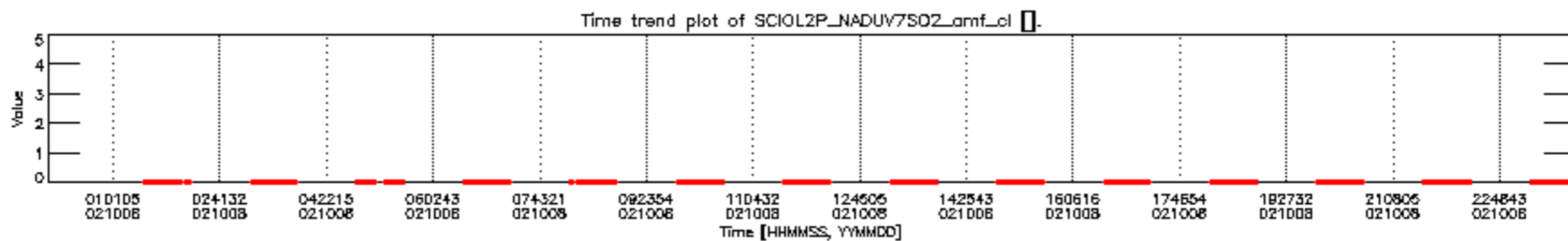
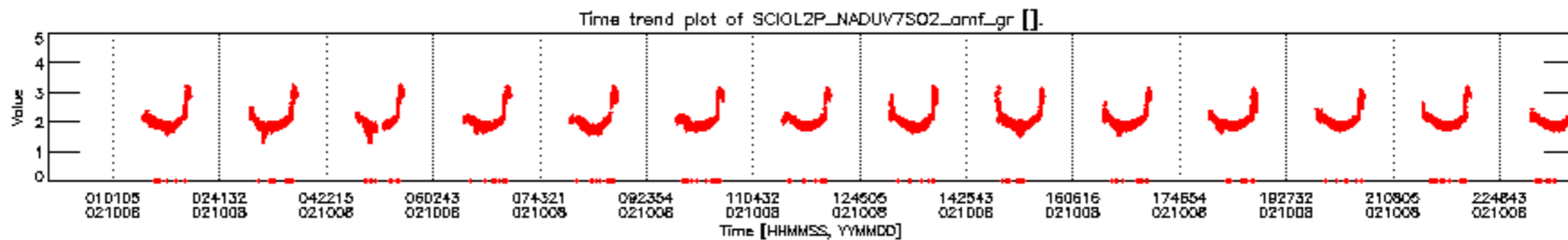
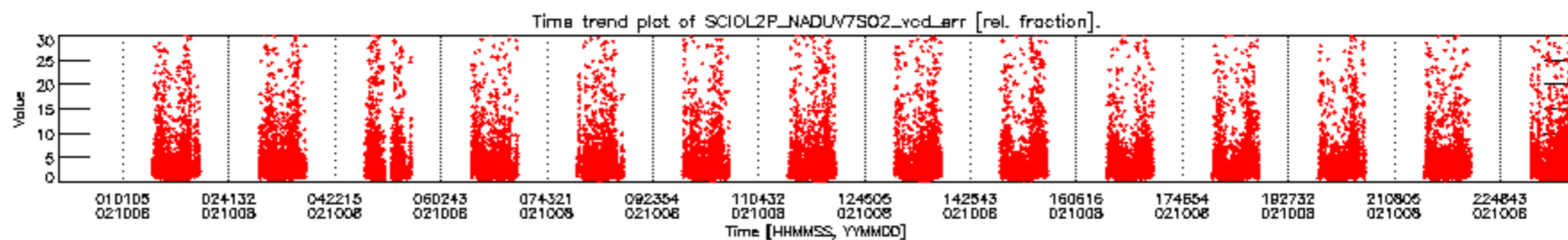
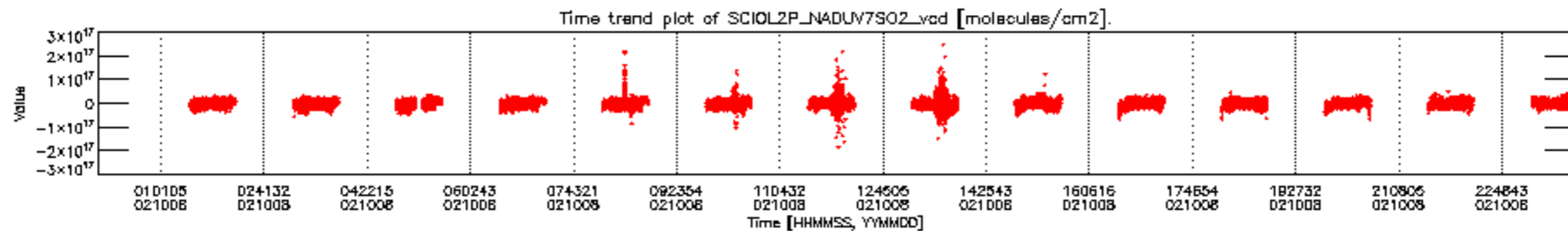


SCIOL2P\_NADUV5S02\_amf\_gr for 08OCT2002 00:00:00 to 09OCT2002 00:00:00

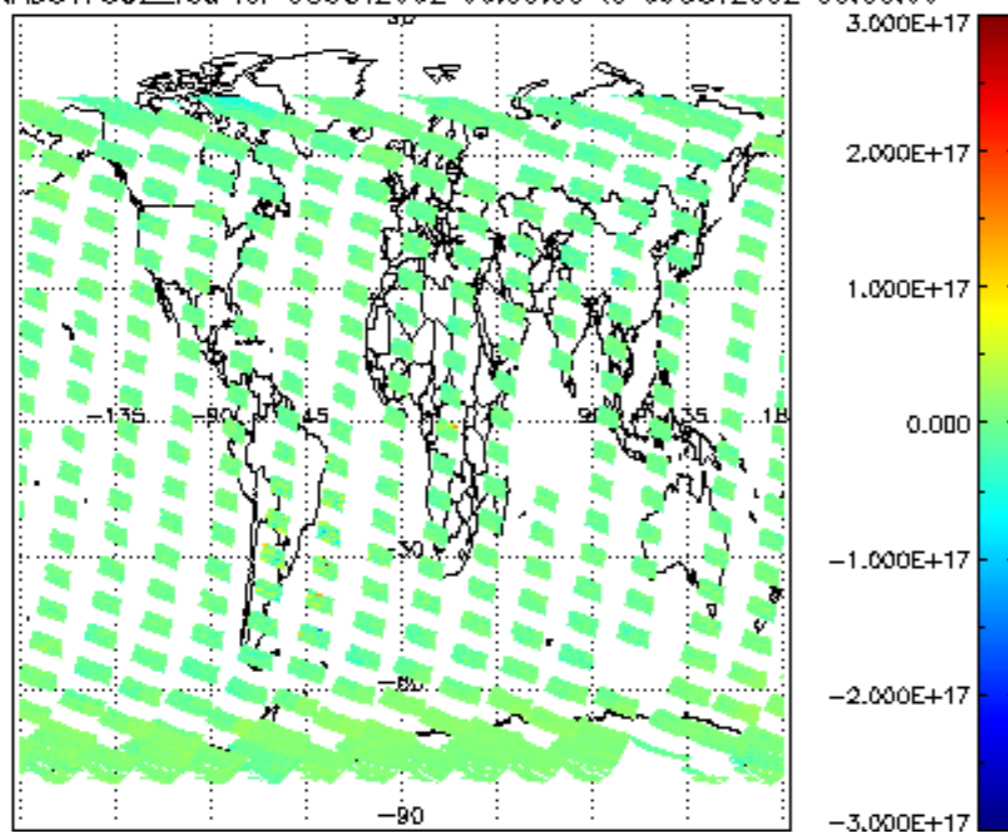


SCIOL2P\_NADUV5S02\_amf\_sl for 08OCT2002 00:00:00 to 09OCT2002 00:00:00

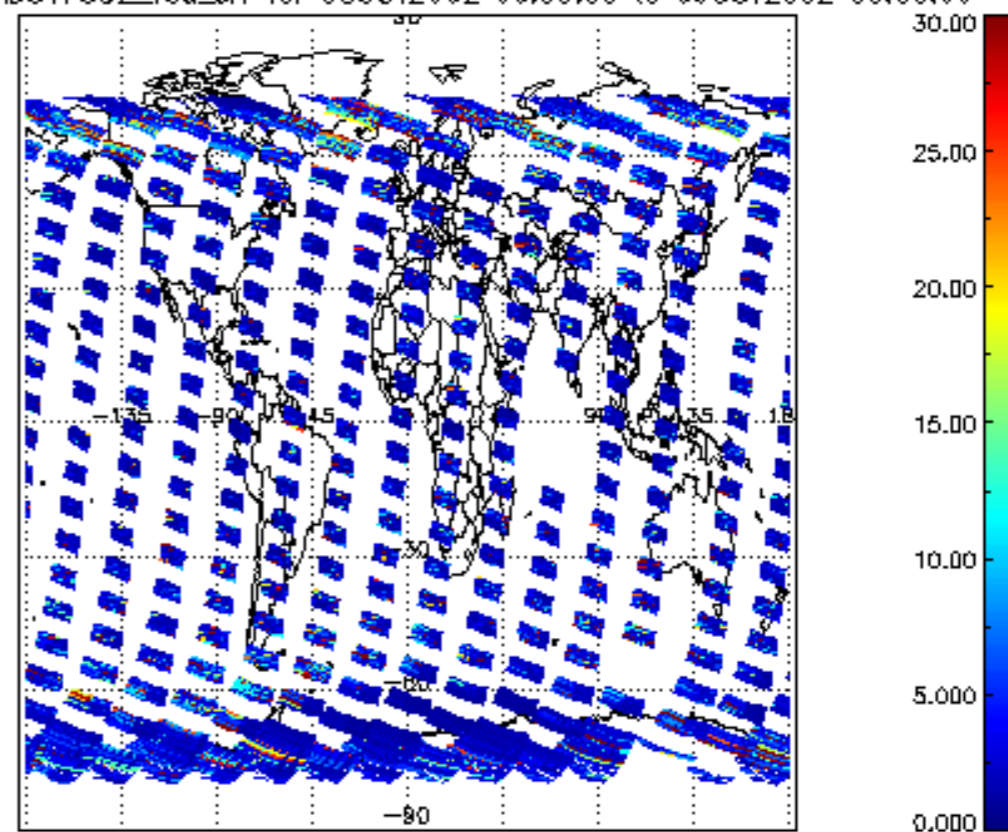




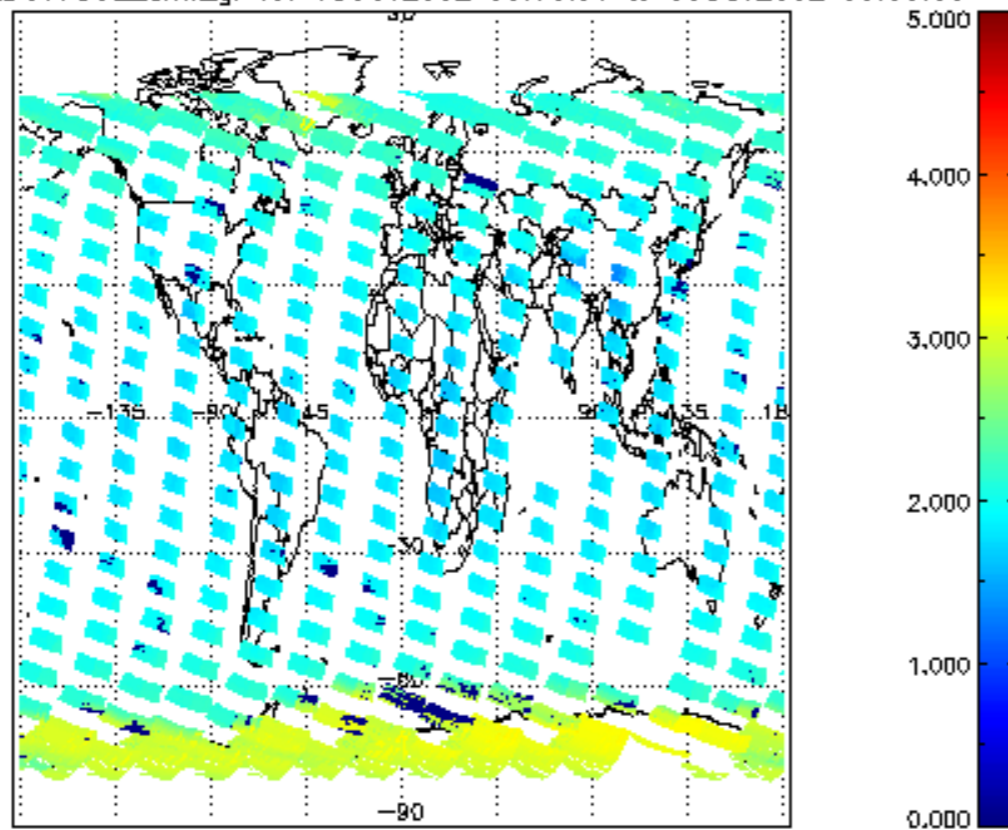
SCIOL2P\_NADUV7S02\_vcd for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



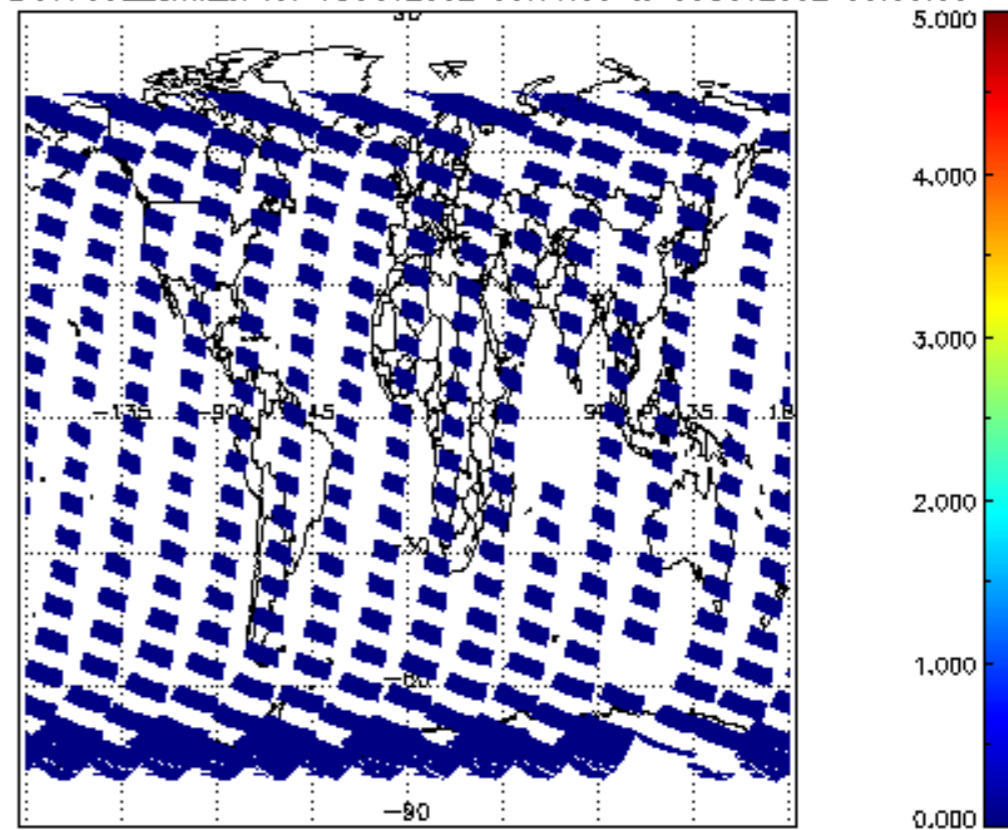
SCIOL2P\_NADUV7S02\_vcd\_err for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



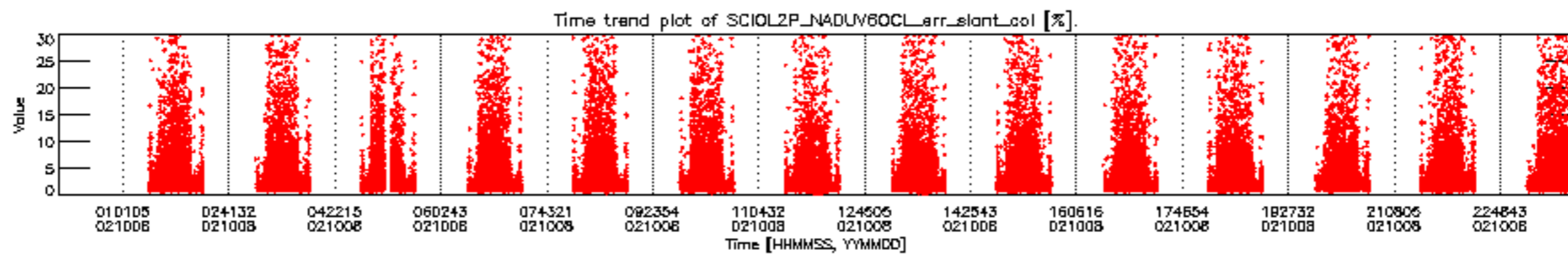
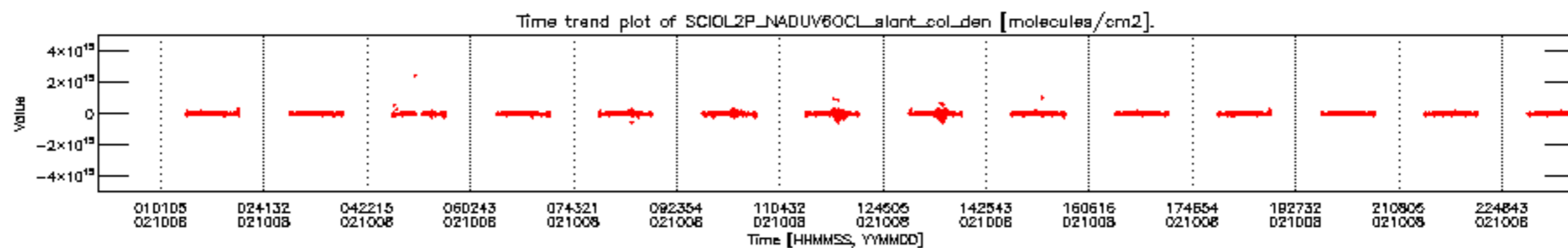
SCIOL2P\_NADUV7S02\_amf\_gr for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



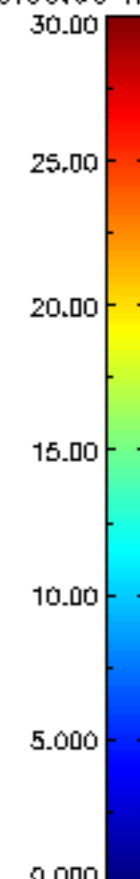
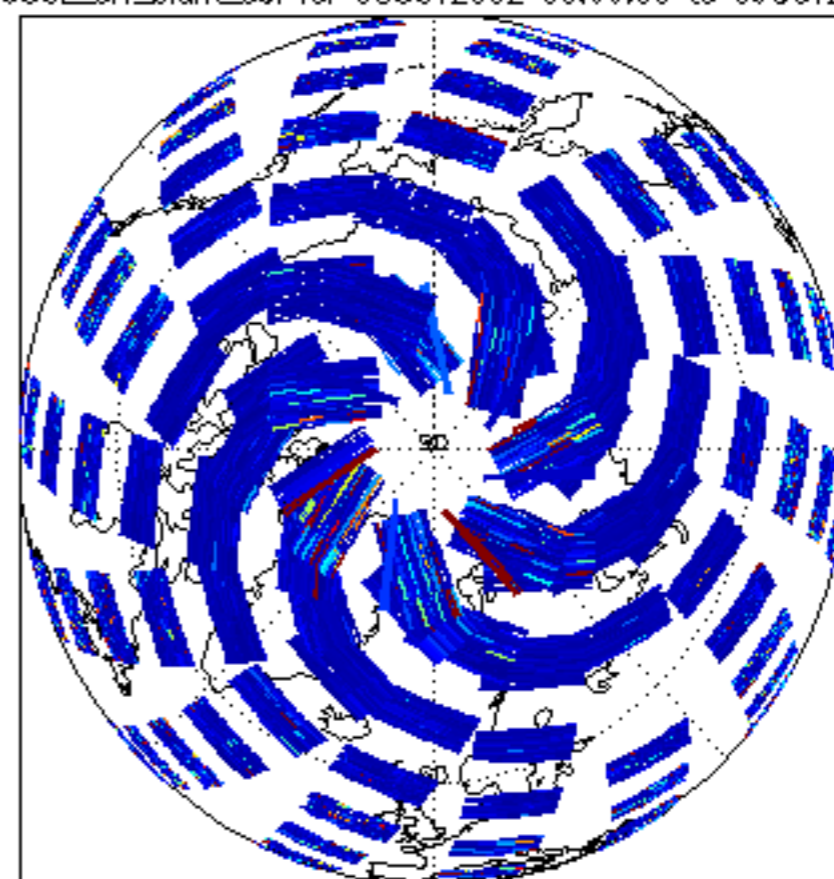
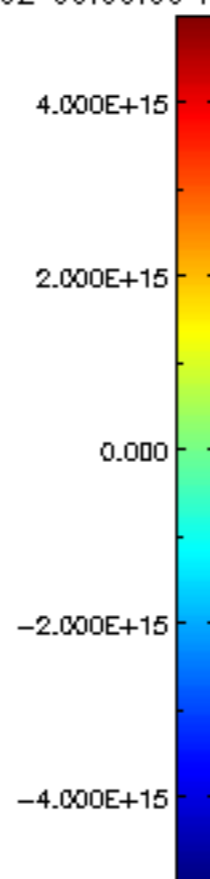
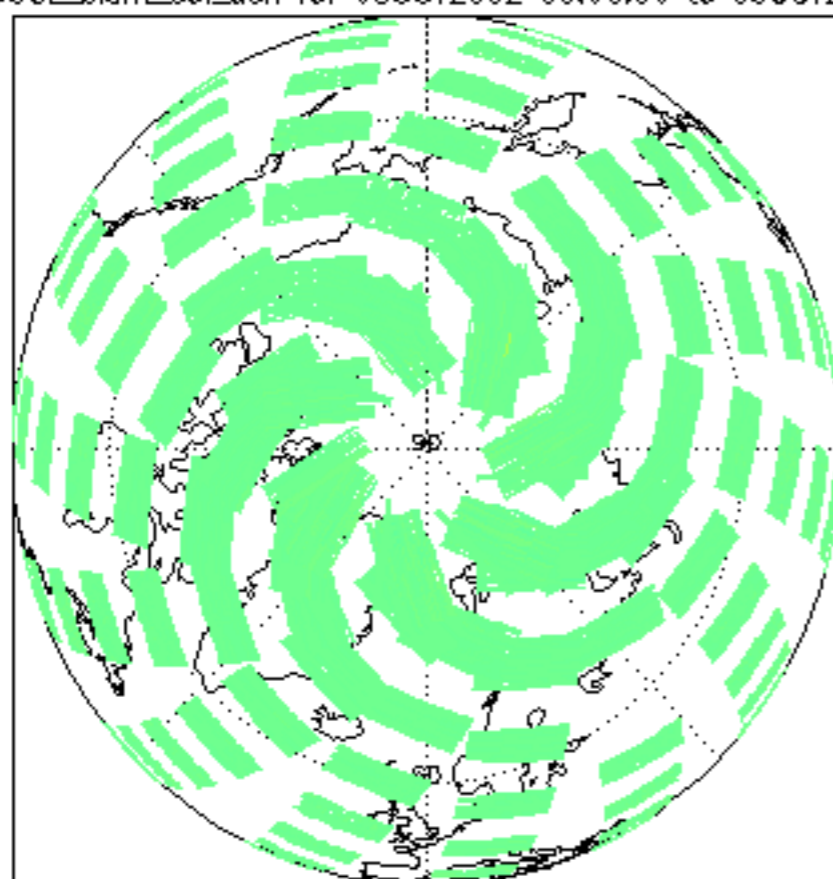
SCIOL2P\_NADUV7S02\_amf\_sl for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



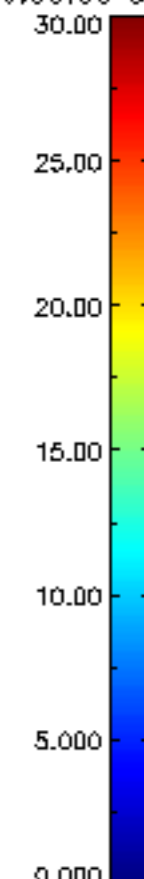
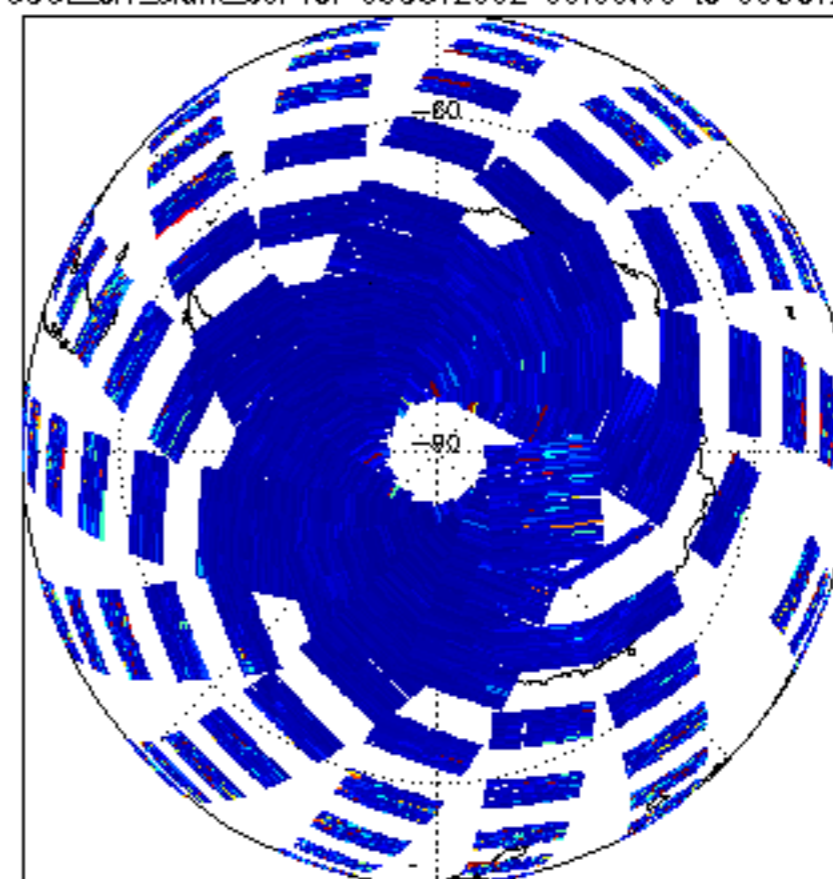
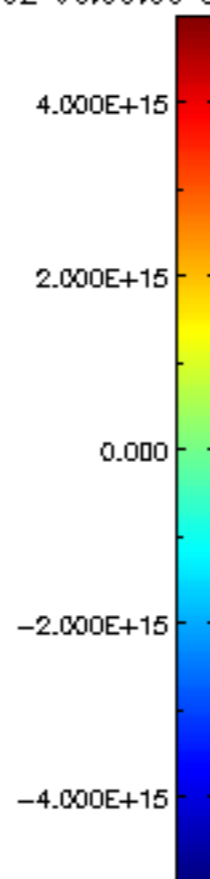
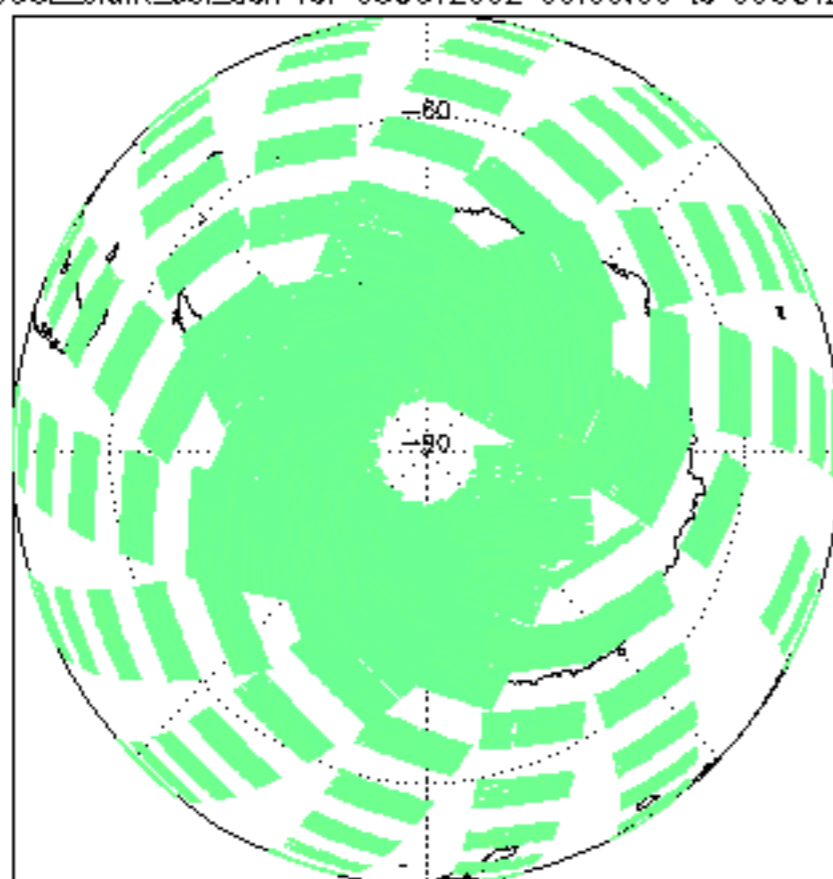


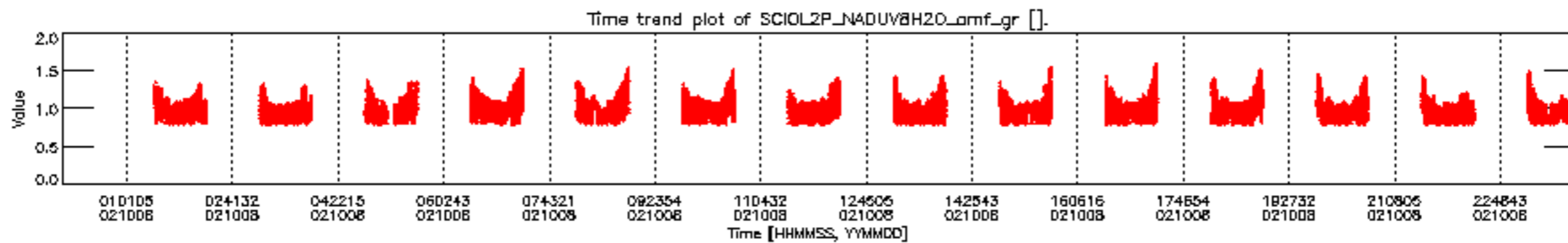
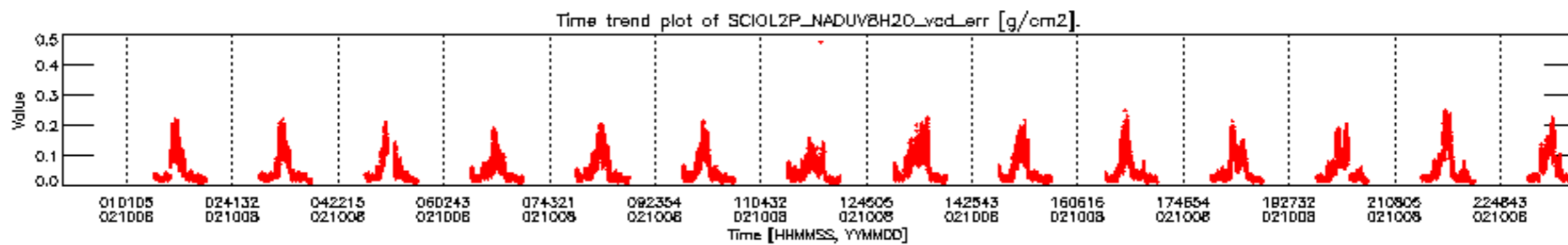
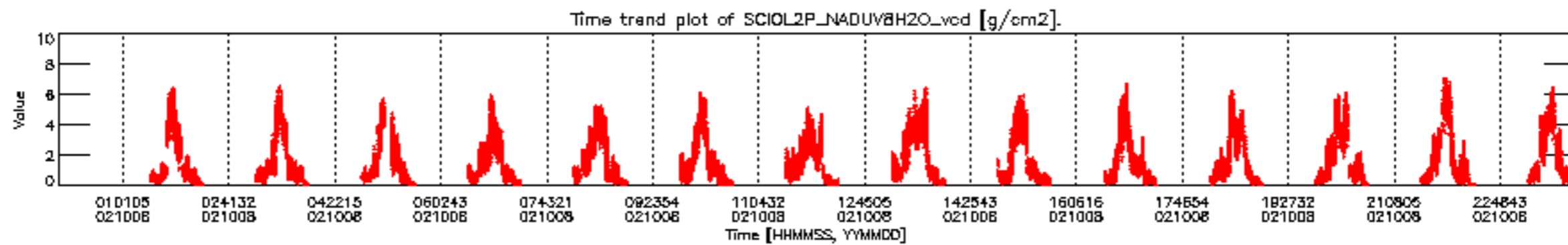


CIOL2P\_NADUV60CL\_slant\_col\_den for 08OCT2002 00:00:00 to 09OCT2002 00:00:00 np CIOL2P\_NADUV60CL\_err\_slant\_col for 08OCT2002 00:00:00 to 09OCT2002 00:00:00 np

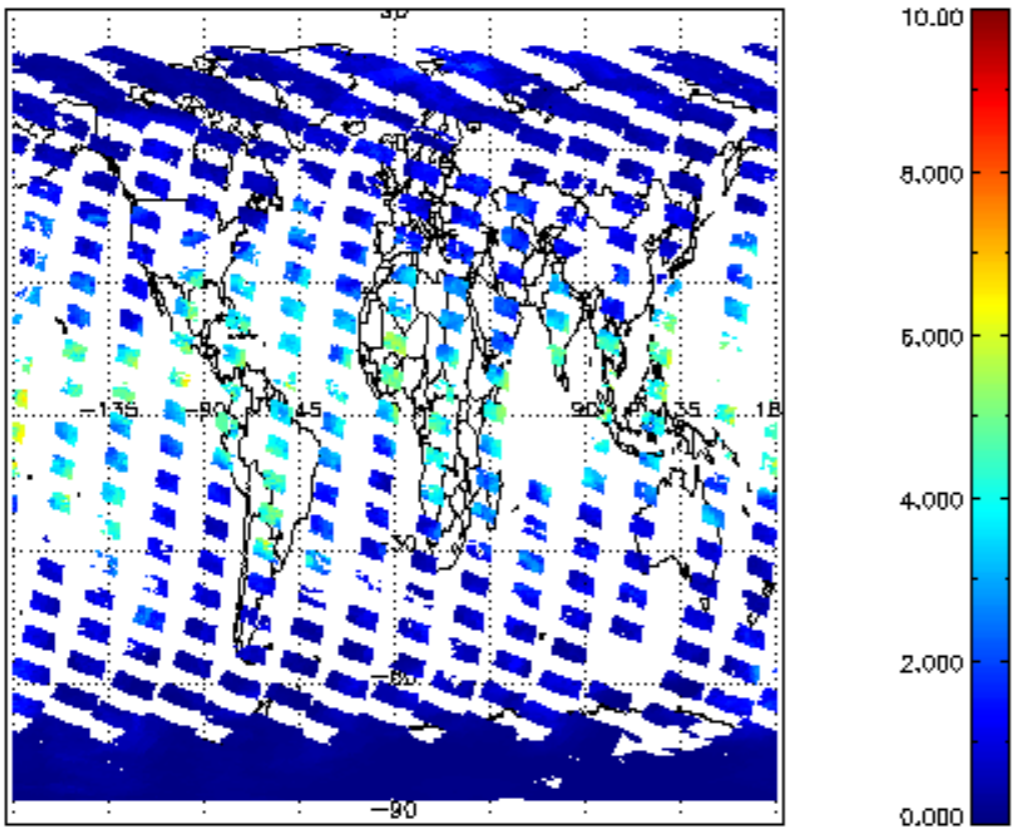


CIOL2P\_NADUV60CL\_slant\_col\_den for 08OCT2002 00:00:00 to 09OCT2002 00:00:00 sp; CIOL2P\_NADUV60CL\_err\_slant\_col for 08OCT2002 00:00:00 to 09OCT2002 00:00:00 sp

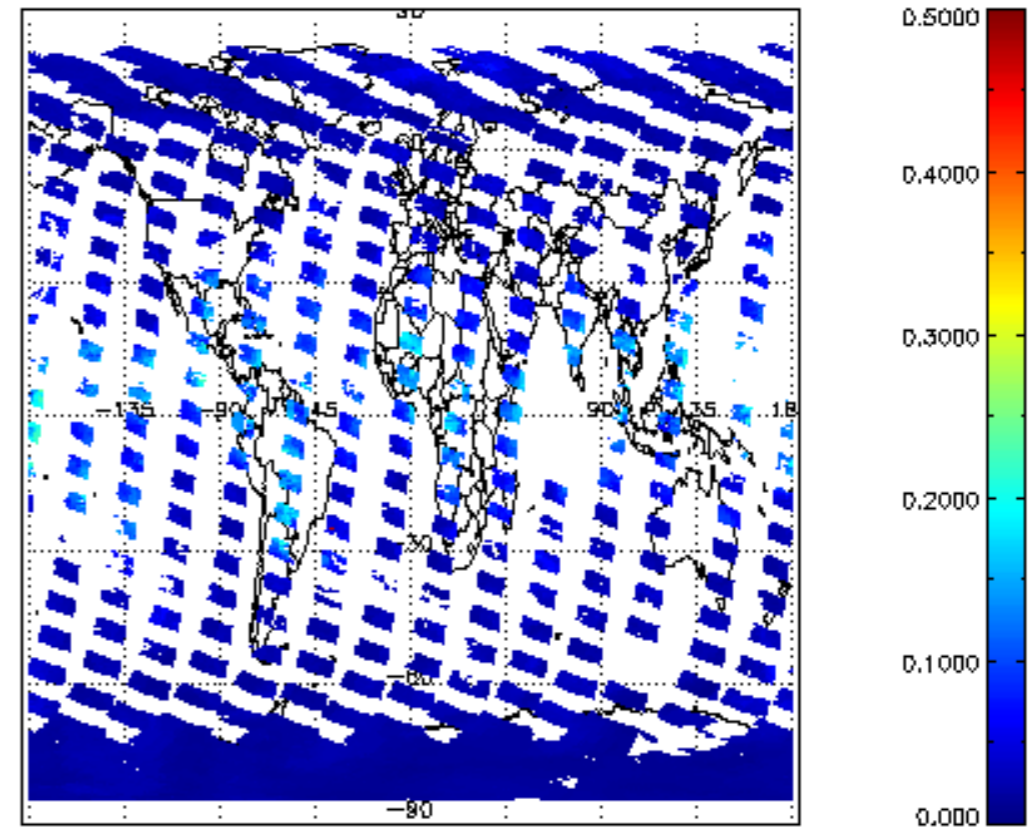




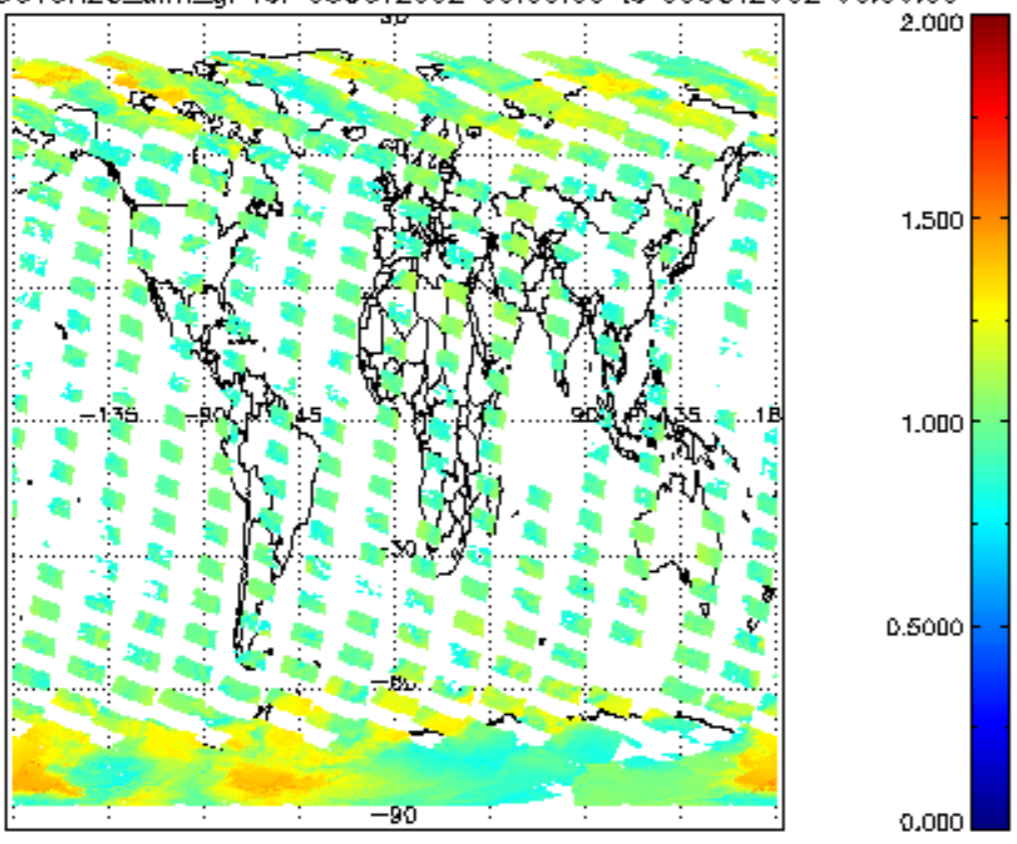
SCIOL2P\_NADUV8H20\_vcd for 08OCT2002 00:00:00 to 09OCT2002 00:00:00

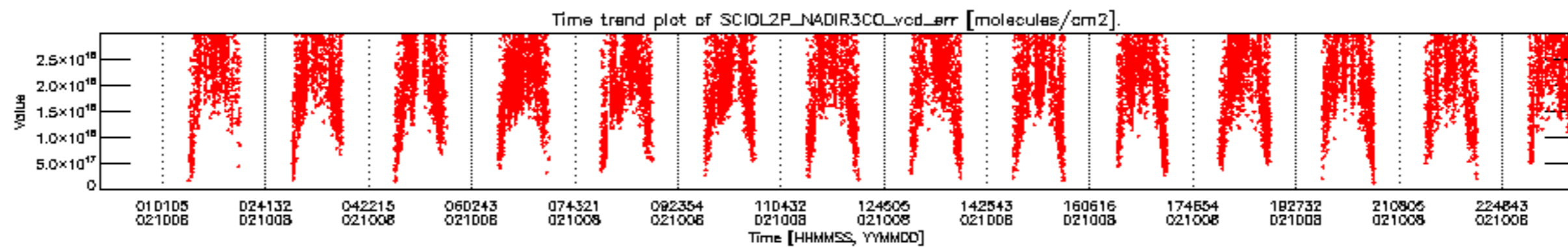
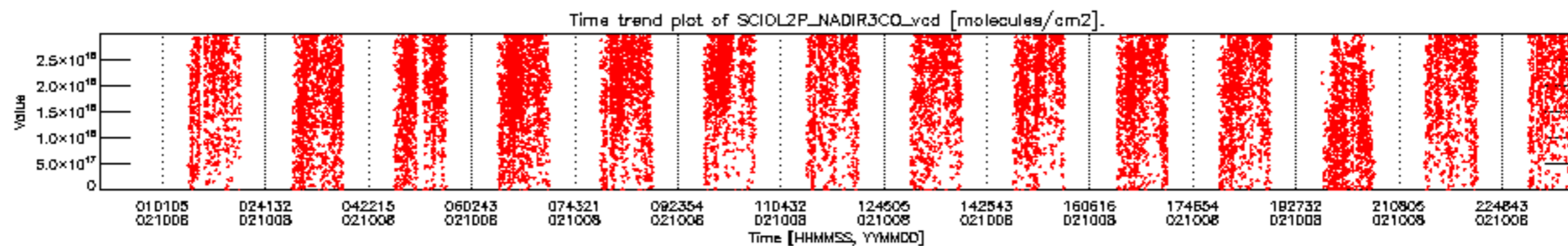


SCIOL2P\_NADUV8H20\_vcd\_err for 08OCT2002 00:00:00 to 09OCT2002 00:00:00

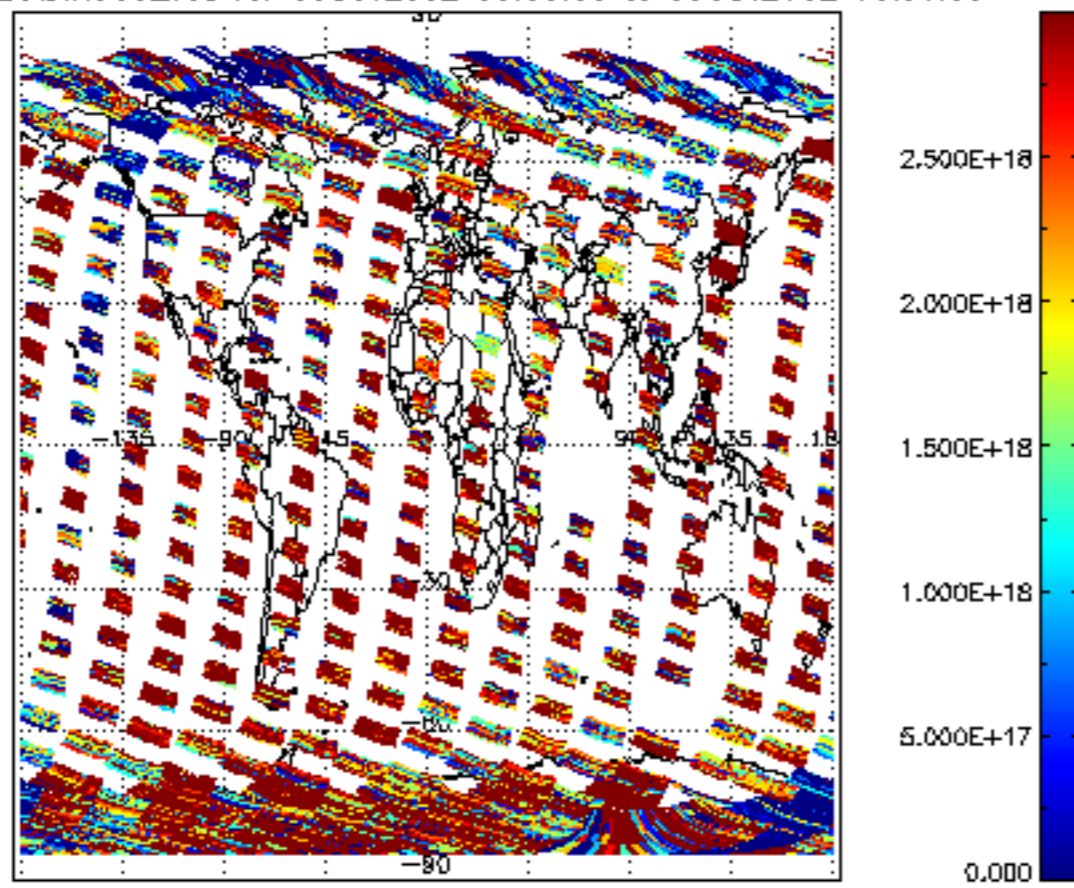


SCIOL2P\_NADUV8H20\_amf\_gr for 08OCT2002 00:00:00 to 09OCT2002 00:00:00

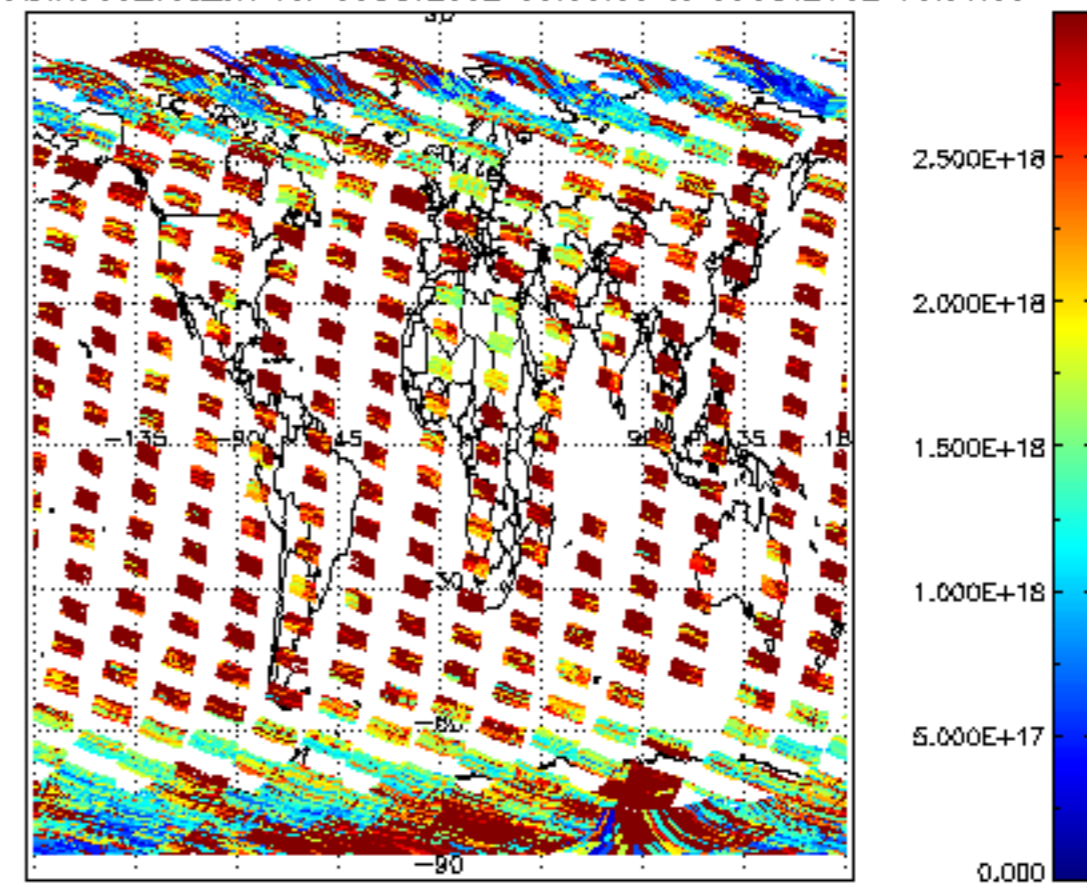




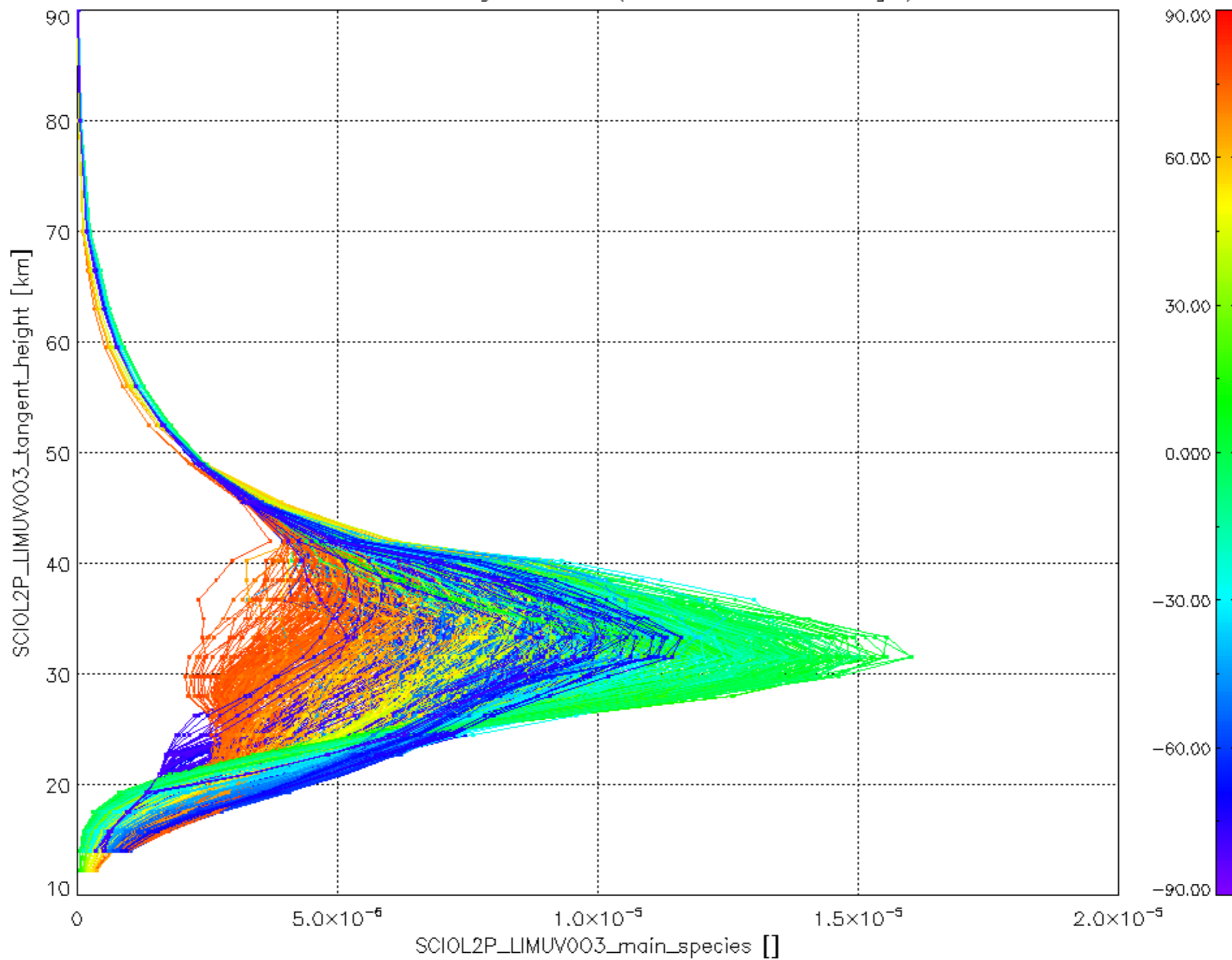
SCIOL2P\_NADIR3CO\_vcd for 08OCT2002 00:00:00 to 09OCT2002 00:00:00



SCIOL2P\_NADIR3CO\_vcd\_err for 08OCT2002 00:00:00 to 09OCT2002 00:00:00

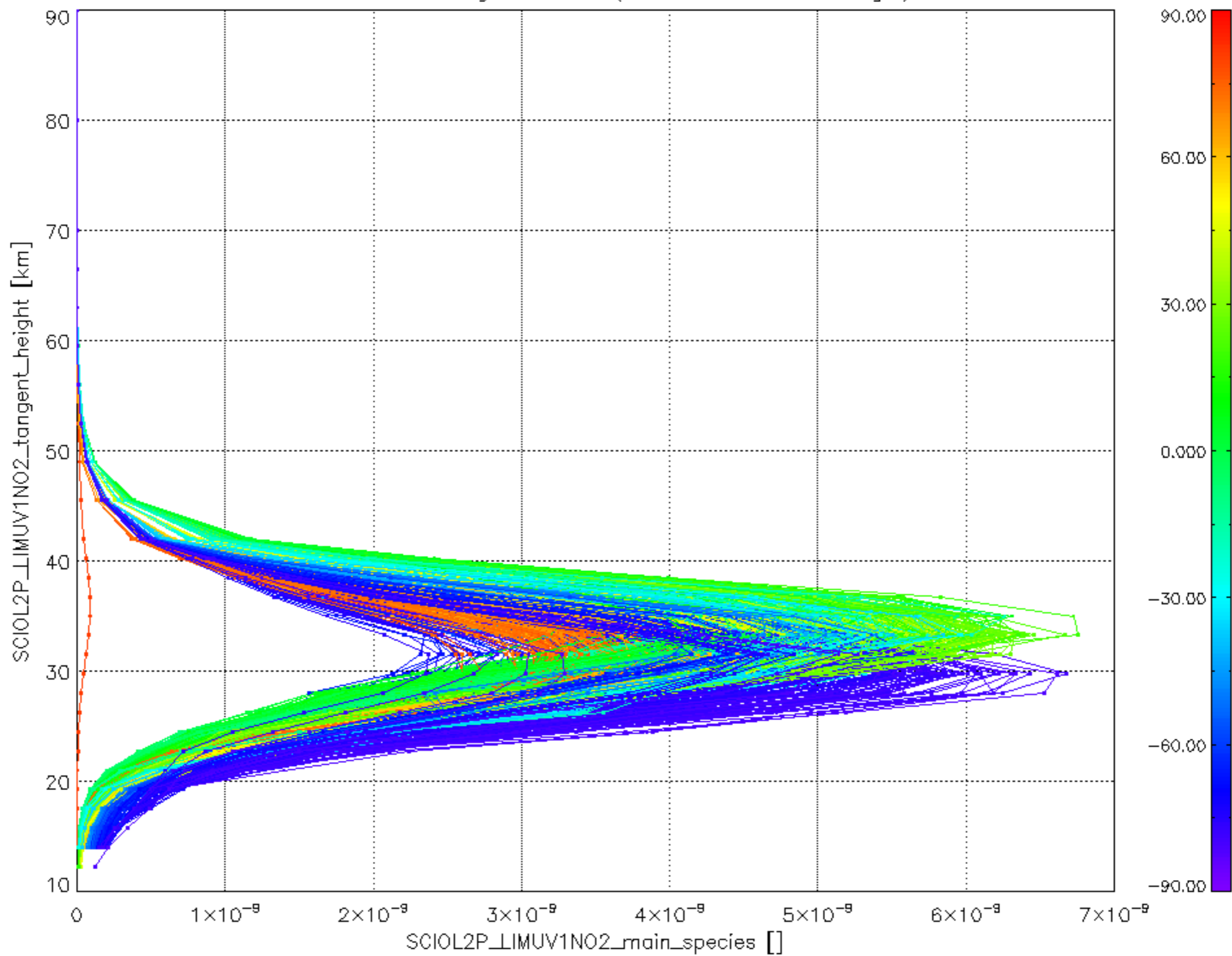


Plot of SCIOL2P\_LIMUV003\_main\_species.tang\_vmr vs. tangent height.  
 Colours indicate tangent latitude (see colour bar on the right).





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).

