

## 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 17:08:58
Data source version	SCIA-OL/5.02-W
Processing scope for products	20SEP2002 00:00:00 to 21SEP2002 00:00:00
Start time of first product within scope	19SEP2002 23:06:03
Stop time of last product within scope	21SEP2002 00:39:50
Total number of level 2 products	13
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__2PWDPA20020919_230603_000031862009_00345_02904_1777.N1</a>	19SEP2002 23:06:03	19SEP2002 23:59:10	0	GOOD
1	<a href="#">SCI_OL__2PWDPA20020920_004332_000033752009_00346_02905_1778.N1</a>	20SEP2002 00:43:32	20SEP2002 01:39:47	0	GOOD
2	<a href="#">SCI_OL__2PWDPA20020920_022320_000034492009_00347_02906_1779.N1</a>	20SEP2002 02:23:20	20SEP2002 03:20:50	0	GOOD
3	<a href="#">SCI_OL__2PWDPA20020920_054433_000035332009_00349_02908_1780.N1</a>	20SEP2002 05:44:33	20SEP2002 06:43:26	0	GOOD
4	<a href="#">SCI_OL__2PWDPA20020920_072600_000033762009_00350_02909_1781.N1</a>	20SEP2002 07:26:00	20SEP2002 08:22:17	0	GOOD

5	SCI_OL__2PWDPA20020920_090546_000035332009_00351_02910_1782.N1	20SEP2002 09:05:46	20SEP2002 10:04:39	0	GOOD
6	SCI_OL__2PWDPA20020920_104713_000033772009_00352_02911_1783.N1	20SEP2002 10:47:13	20SEP2002 11:43:31	0	GOOD
7	SCI_OL__2PWDPA20020920_122659_000035332009_00353_02912_1784.N1	20SEP2002 12:26:59	20SEP2002 13:25:52	0	GOOD
8	SCI_OL__2PWDPA20020920_140826_000033772009_00354_02913_1785.N1	20SEP2002 14:08:26	20SEP2002 15:04:44	0	GOOD
9	SCI_OL__2PWDPA20020920_154812_000035332009_00355_02914_1786.N1	20SEP2002 15:48:12	20SEP2002 16:47:05	0	GOOD
10	SCI_OL__2PWDPA20020920_172953_000034512009_00356_02915_1787.N1	20SEP2002 17:29:53	20SEP2002 18:27:25	0	GOOD
11	SCI_OL__2PWDPA20020920_223541_000032182009_00359_02918_3045.N1	20SEP2002 22:35:41	20SEP2002 23:29:20	0	GOOD
12	SCI_OL__2PWDPA20020921_001702_000013672009_00360_02919_1791.N1	21SEP2002 00:17:02	21SEP2002 00:39:50	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: 83260

Total number of cloud data DSRs with good quality flag (=0): 83260 (100.0 %)

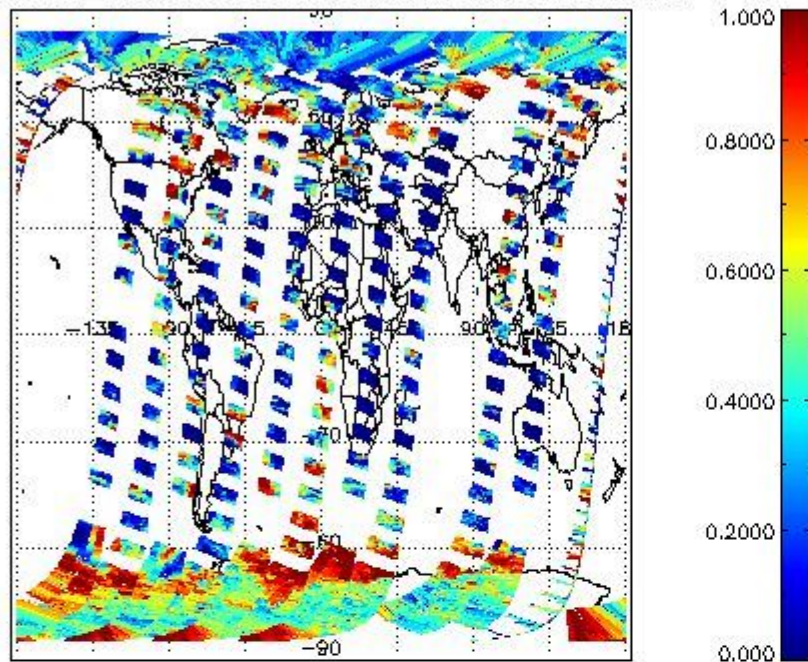
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	83260	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	83260	0.23847	0.25000	0.12500	1.0000	0.10760	s
CL_FRAC	83260	0.39313	0.33049	0.0000	1.0000	0.34084	
CL_FRAC_ERR	83260	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	83260	7.6310	8.0000	4.0000	32.000	3.4432	
PMD_READ_CL[0]	83260	0.83615	0.0000	0.0000	32.000	2.2563	-
PMD_READ_CL[1]	83260	1.9130	0.0000	0.0000	32.000	3.0508	-
CL_TOP_HEIGHT	74201	3.3461	1.5743	0.0000	17.000	3.8080	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	74201	51.846	40.979	0.0000	101.00	41.504	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	83260	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	83260	11001011	11000100	11000000	11100000	3394.4	
AERO_ABSO_IND	83260	0.18250	0.0000	0.0000	9.6763	0.44045	
AERO_IND_DIAG	83260	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	83260	01111011	11000000	00000000	11000000	23576.	

#### Time and geolocation plots:

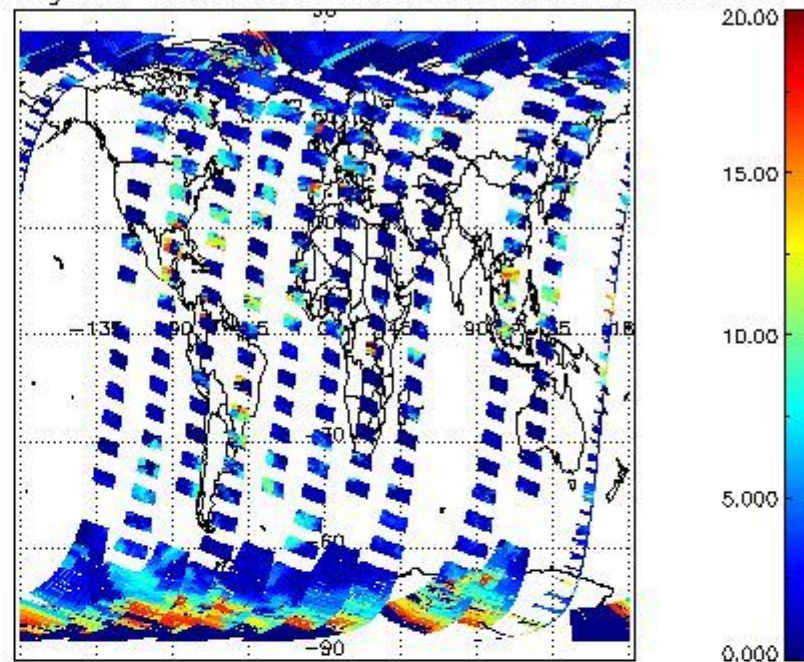
Plots are available for the following parameters:

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

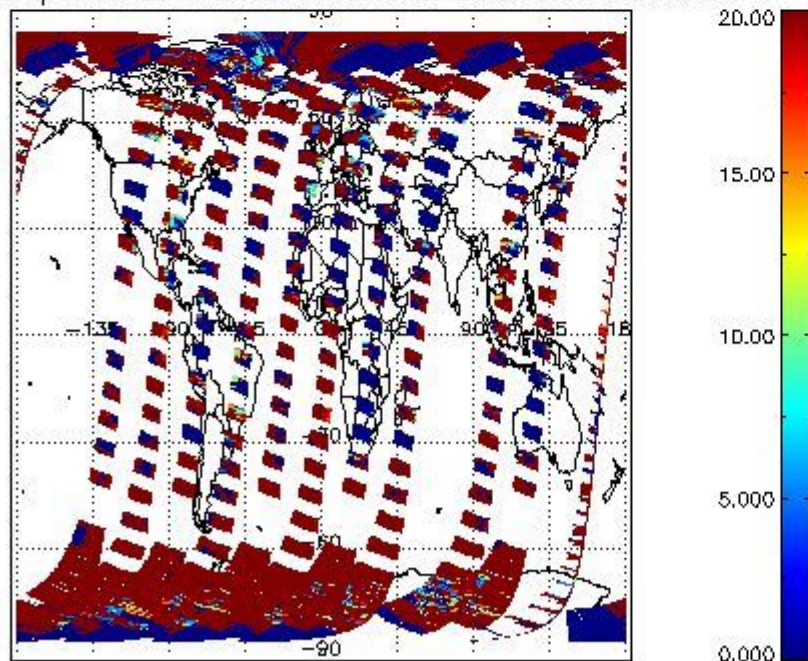
cL\_frac for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



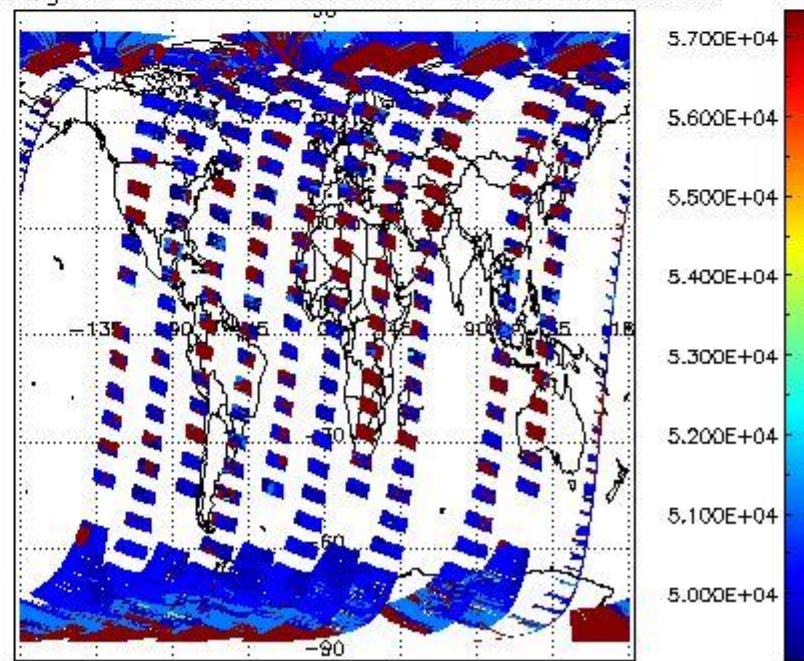
cL\_top\_height for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



cL\_opt\_depth for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



cloud\_flags for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



## 2.2.2 Nadir

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

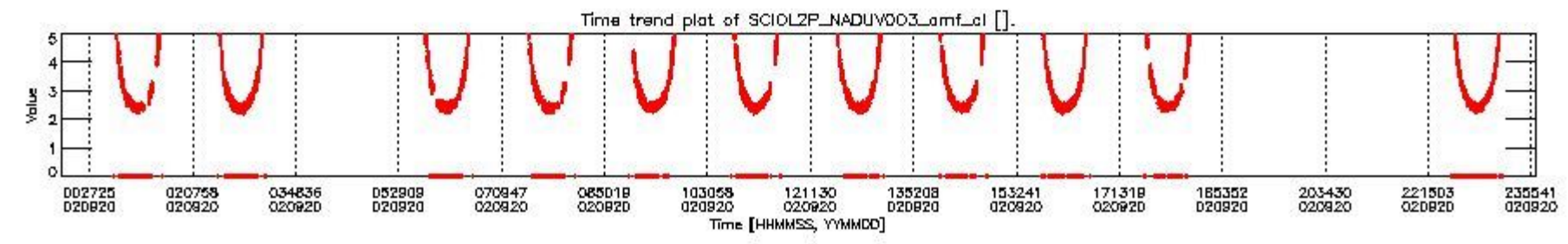
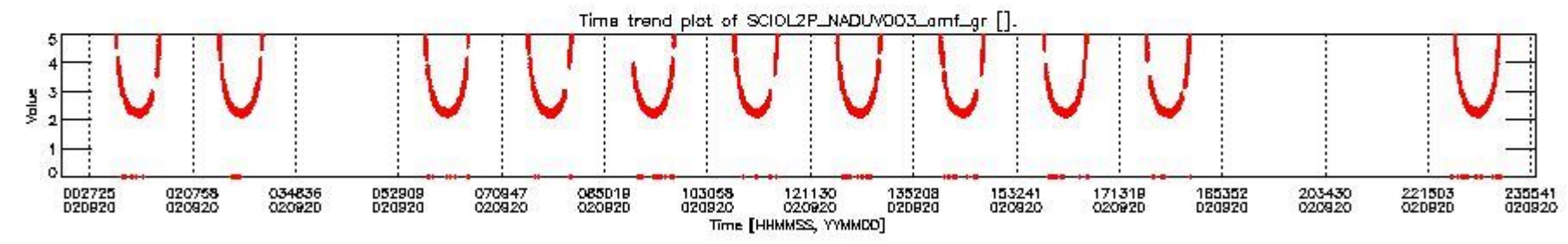
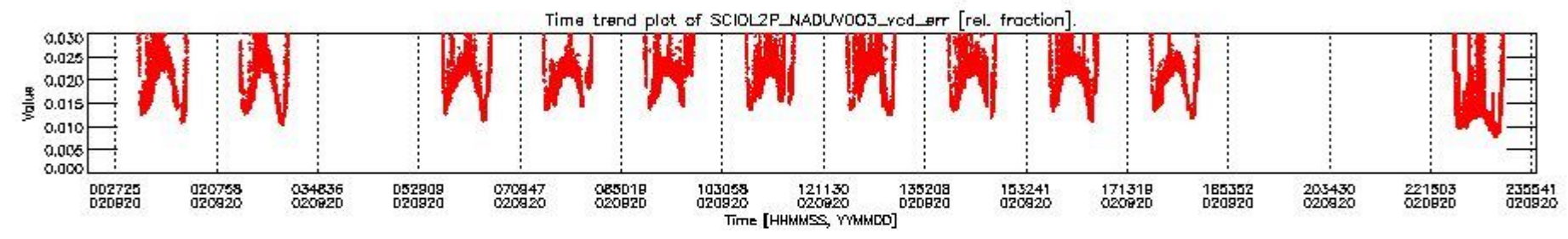
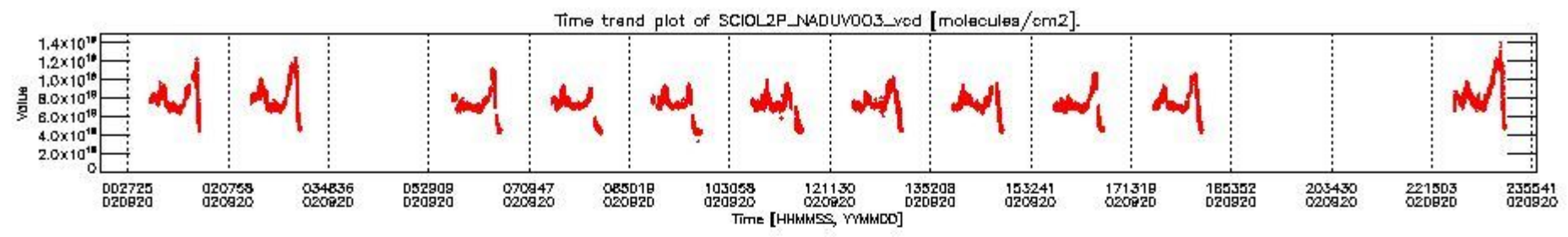
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

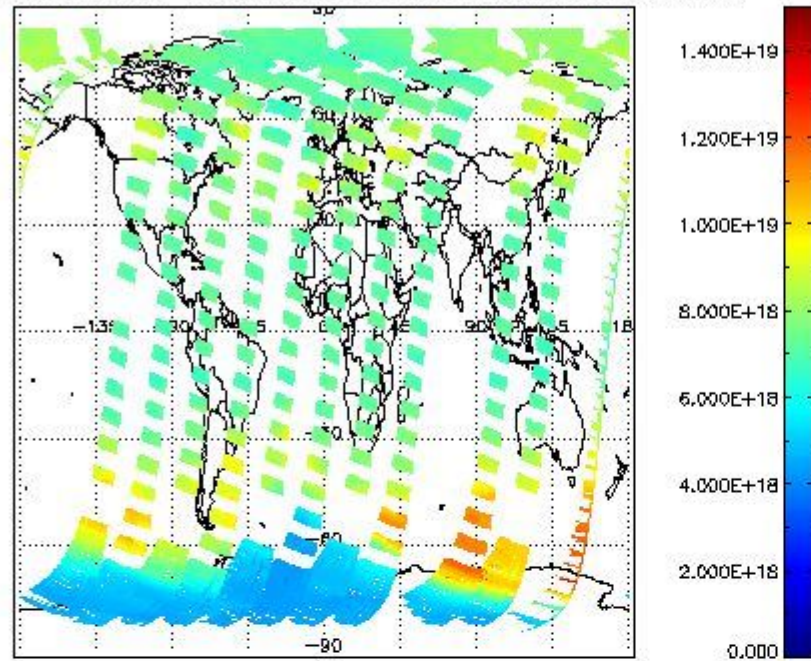
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

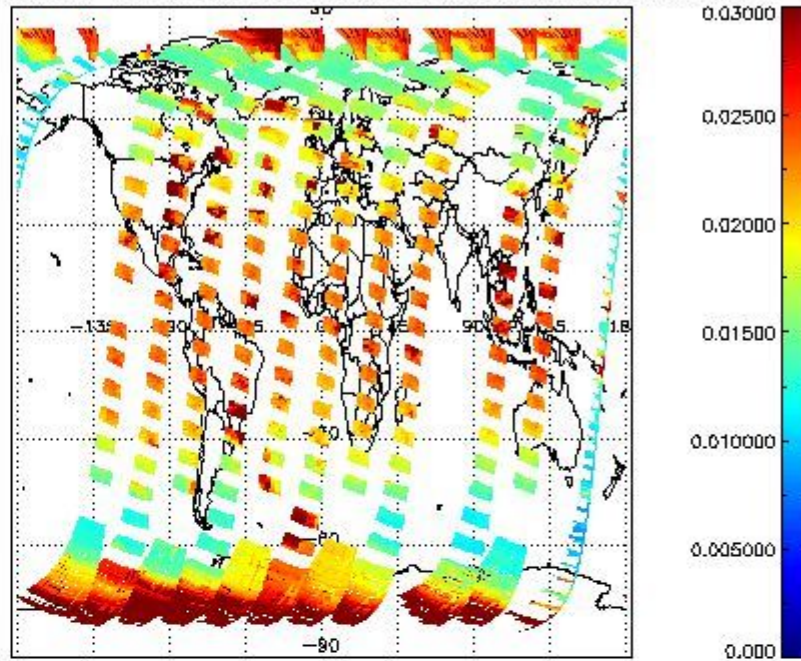
#### 2.2.2.1 O3 (UV0)



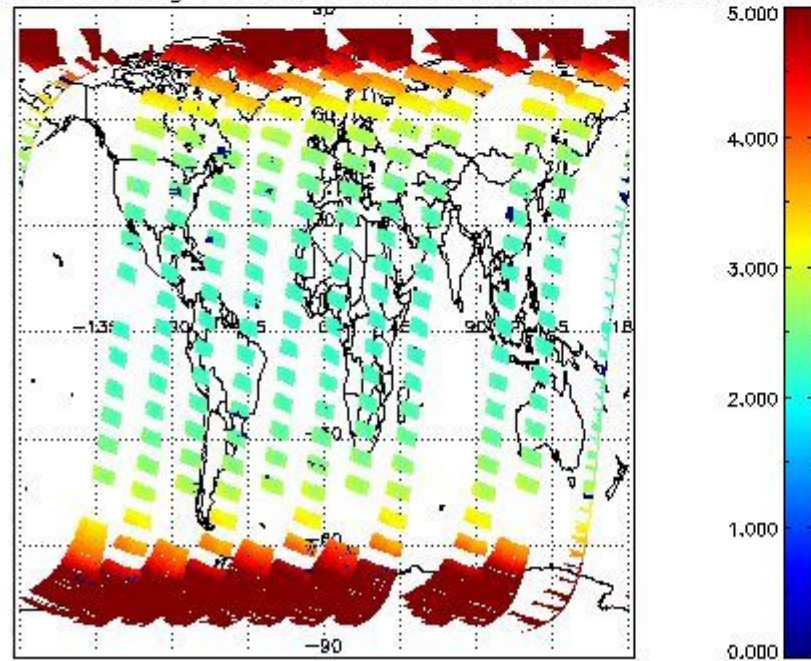
SCIOL2P\_NADUV003\_vcd for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



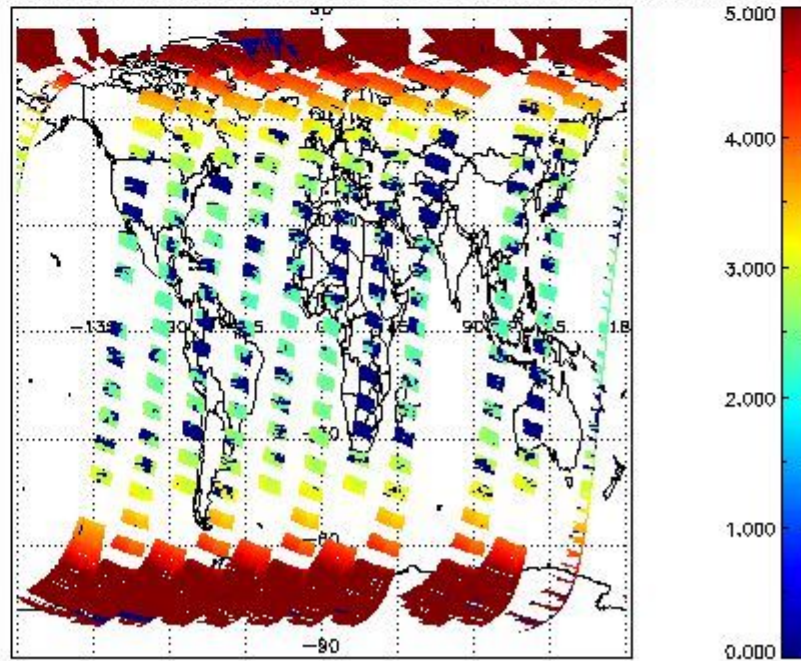
SCIOL2P\_NADUV003\_vcd\_err for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



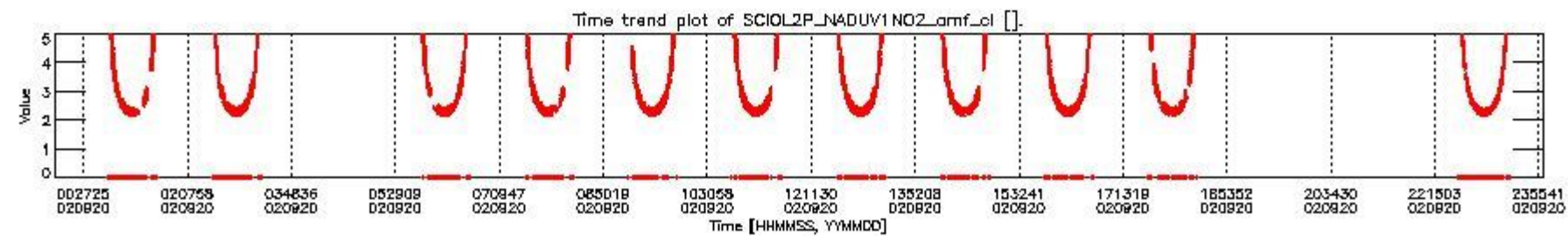
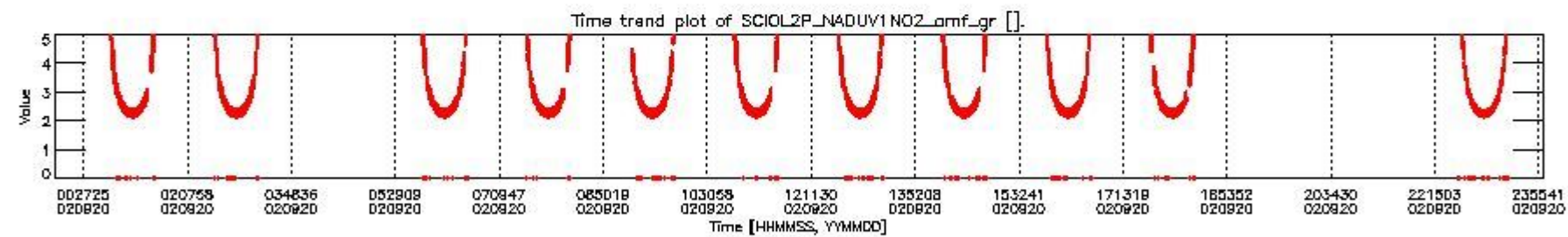
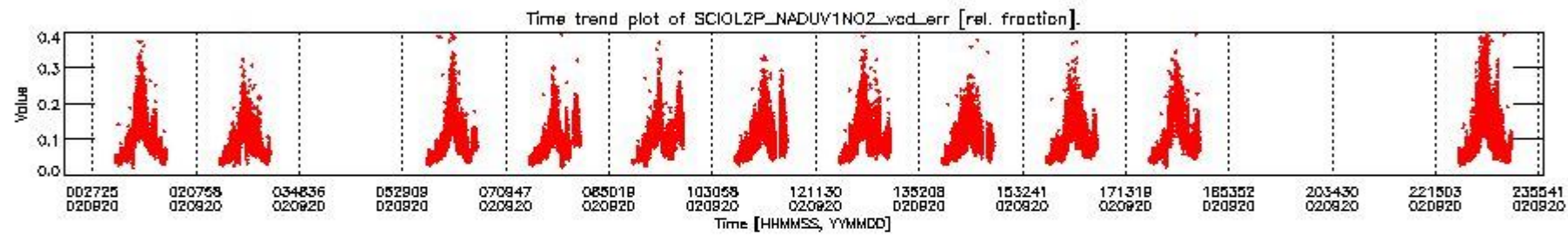
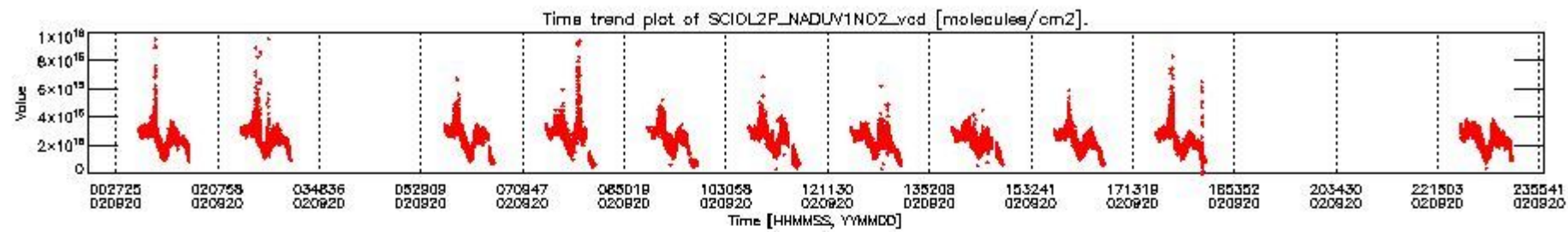
SCIOL2P\_NADUV003\_amf\_gr for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



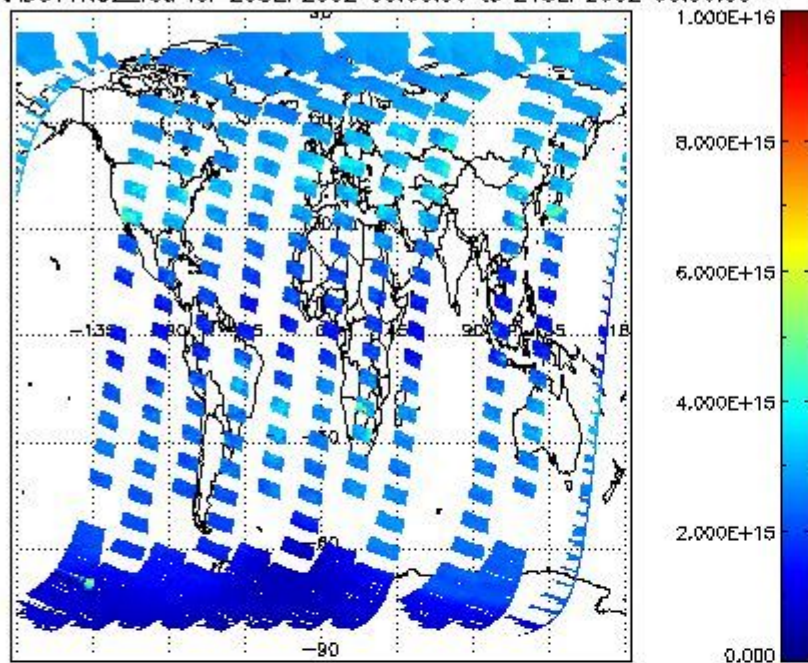
SCIOL2P\_NADUV003\_amf\_cl for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



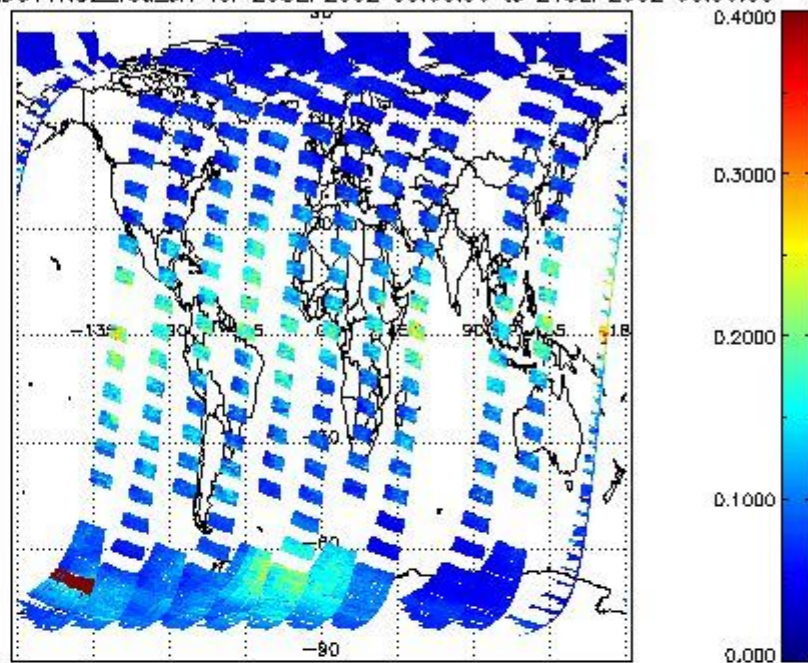
2.2.2.2 NO2 (UV1)



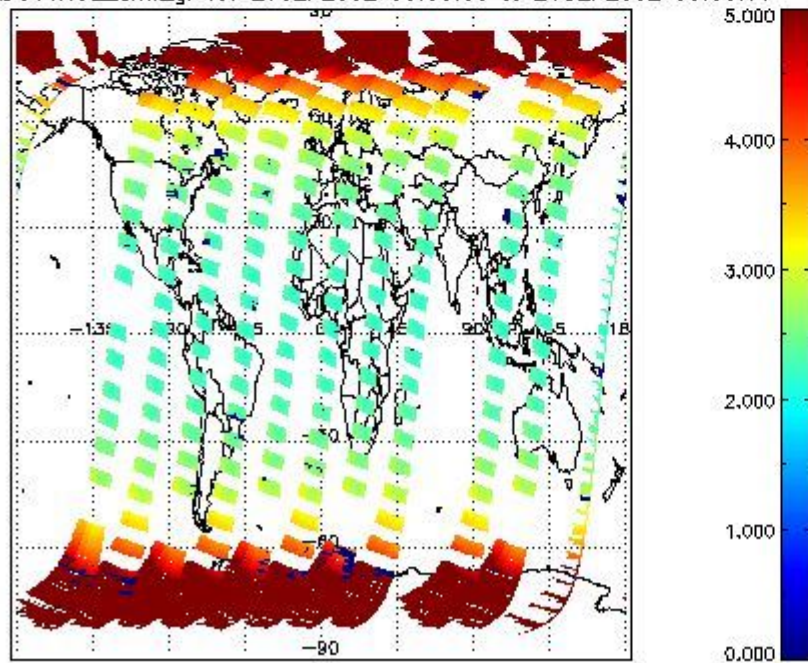
SCIOL2P\_NADUV1N02\_vcd for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



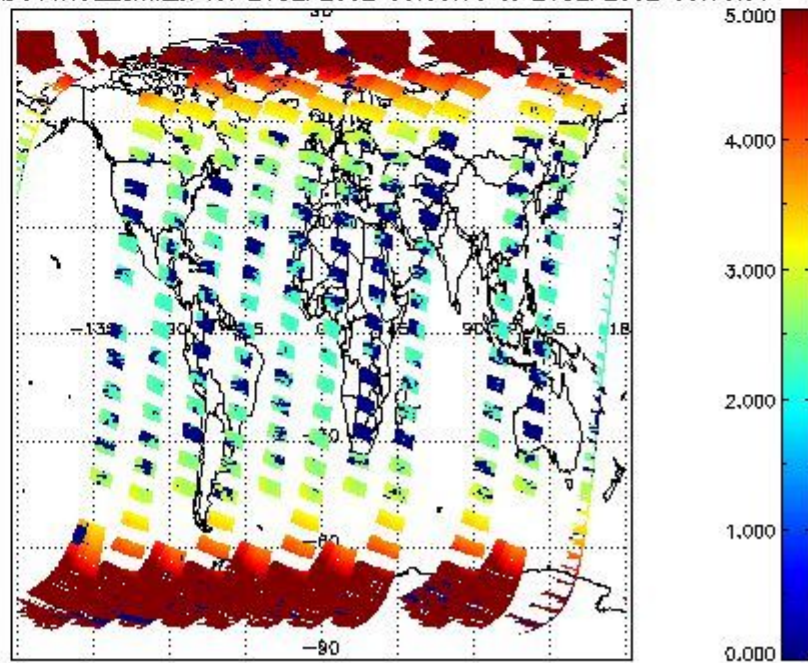
SCIOL2P\_NADUV1N02\_vcd\_err for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



SCIOL2P\_NADUV1N02\_amf\_gr for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

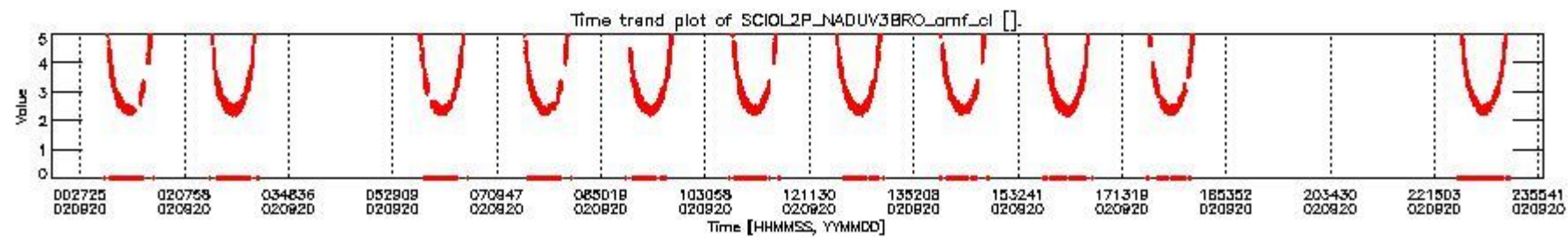
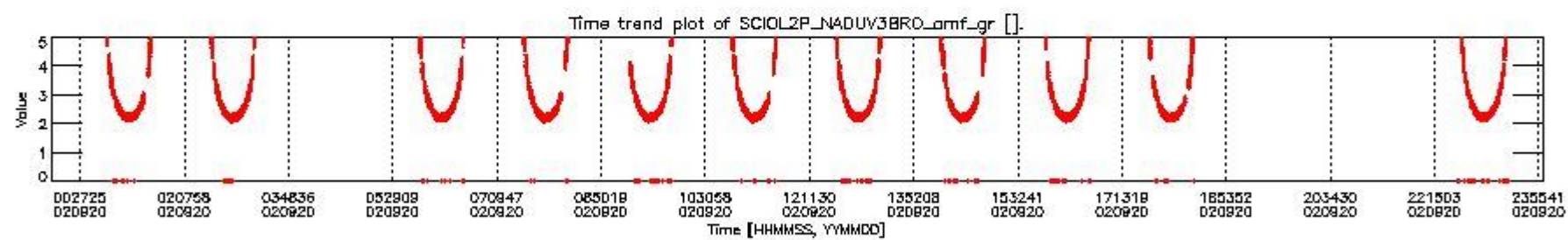
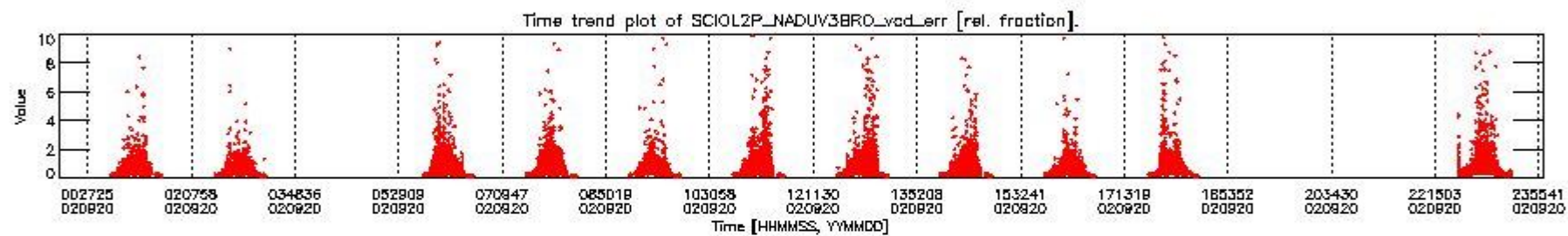
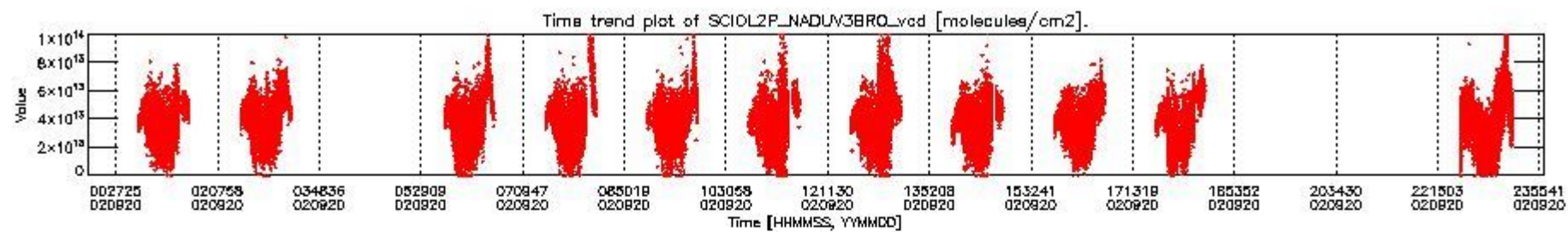


SCIOL2P\_NADUV1N02\_amf\_cl for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

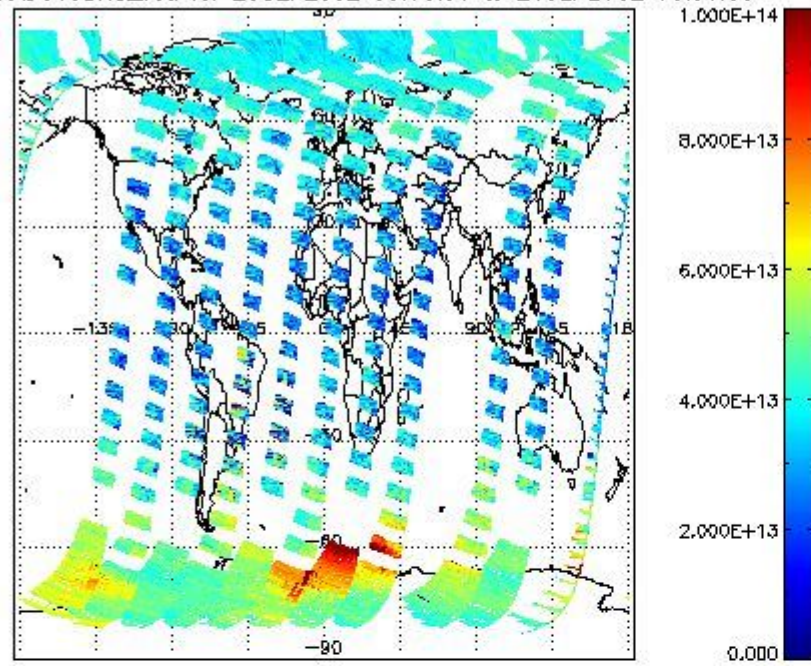


2.2.2.3 BrO (UV3)

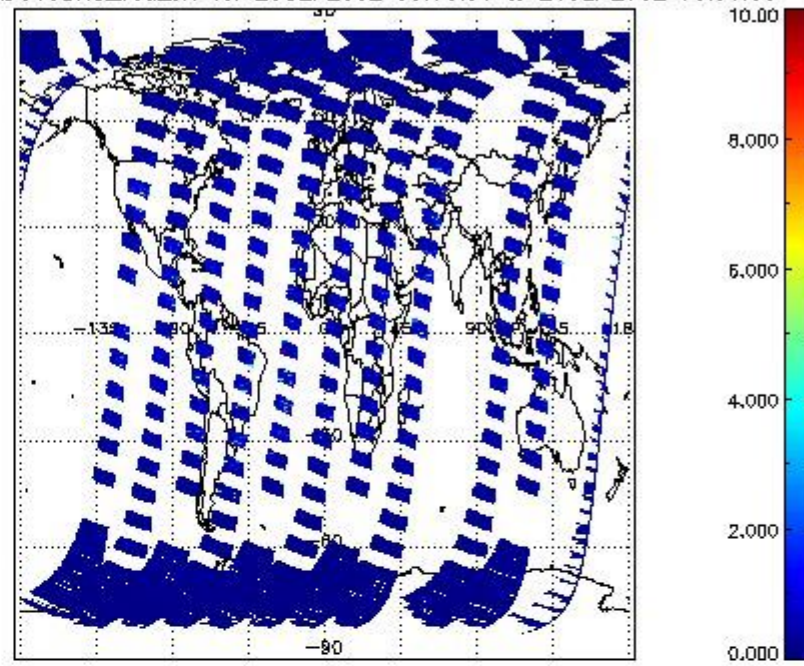




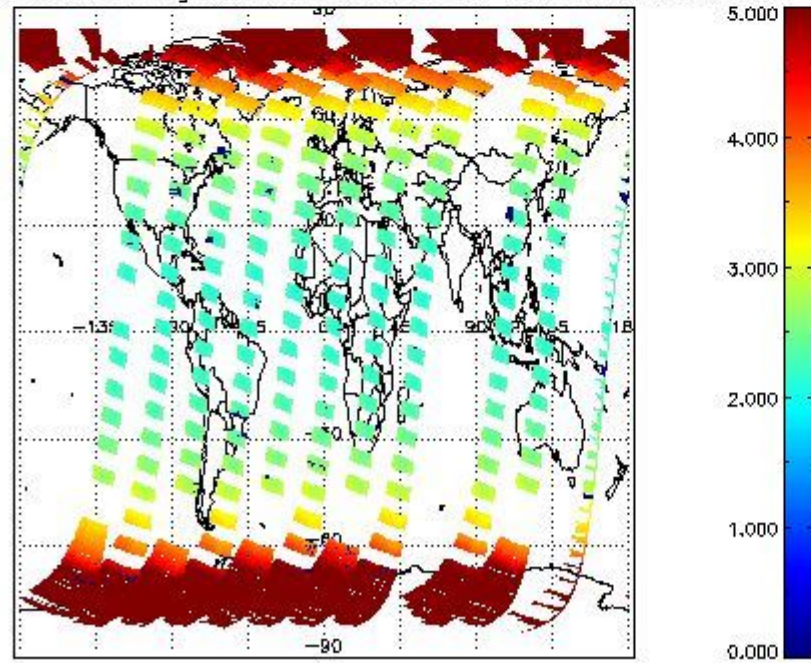
SCIOL2P\_NADUV3BRO\_vcd for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



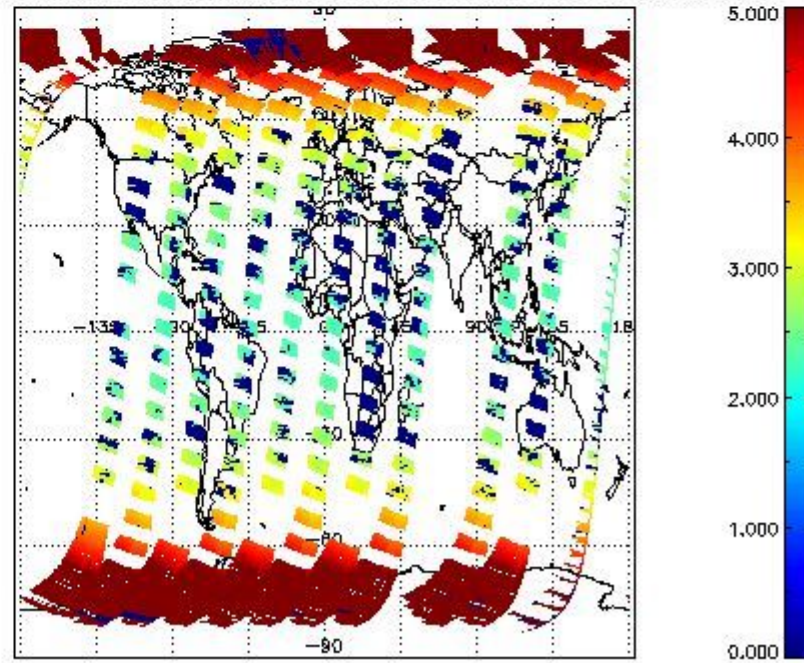
SCIOL2P\_NADUV3BRO\_vcd\_err for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



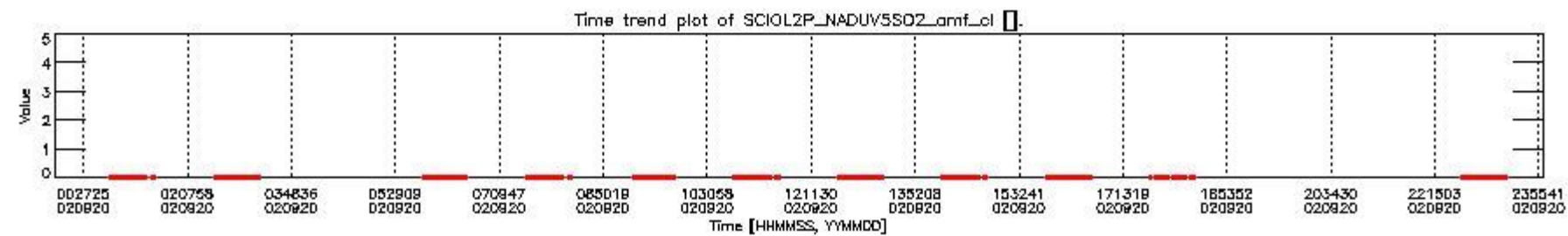
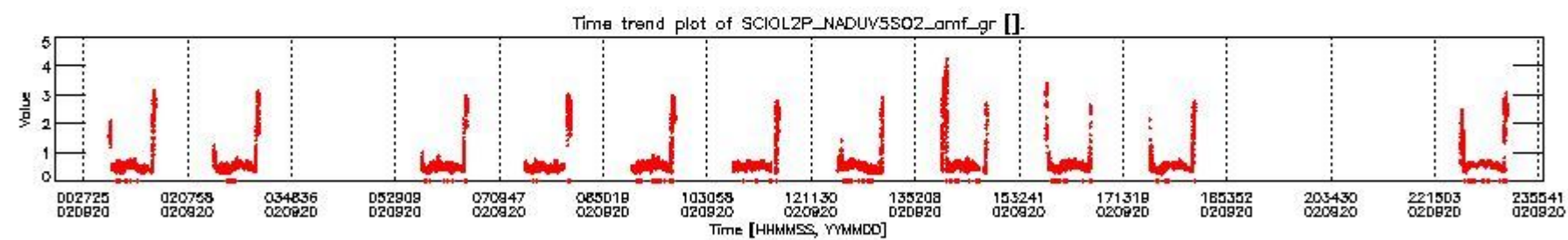
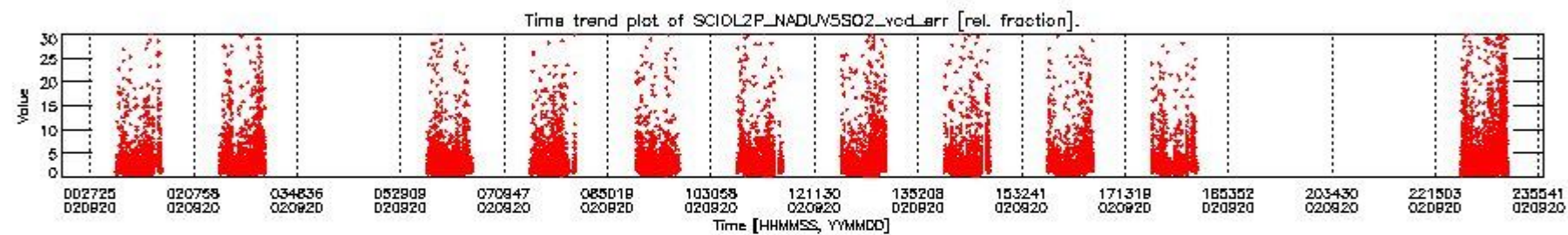
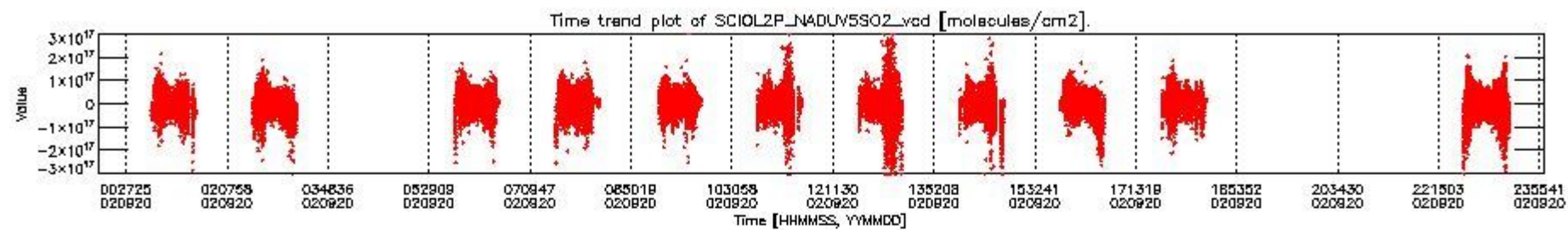
SCIOL2P\_NADUV3BRO\_amf\_gr for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



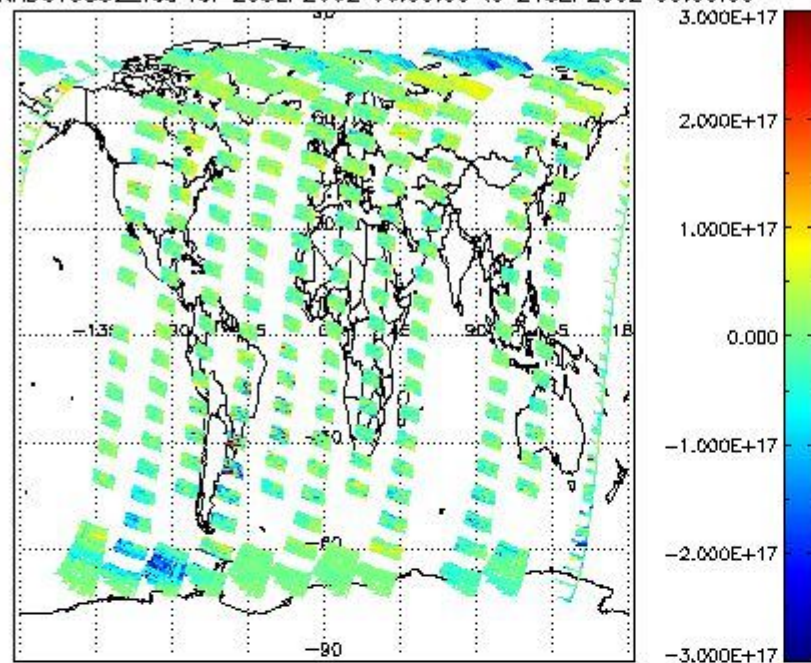
SCIOL2P\_NADUV3BRO\_amf\_cl for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



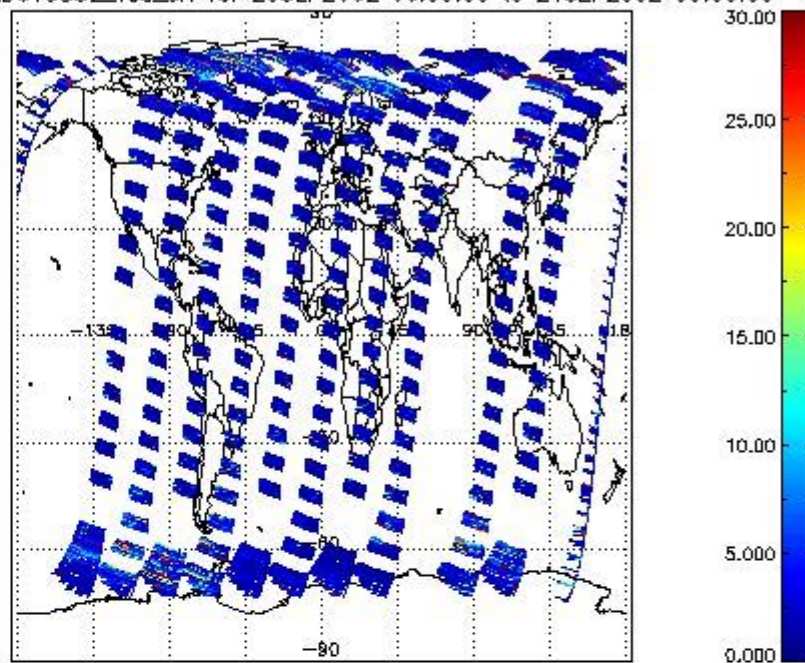
2.2.2.4 SO2 (UV5)



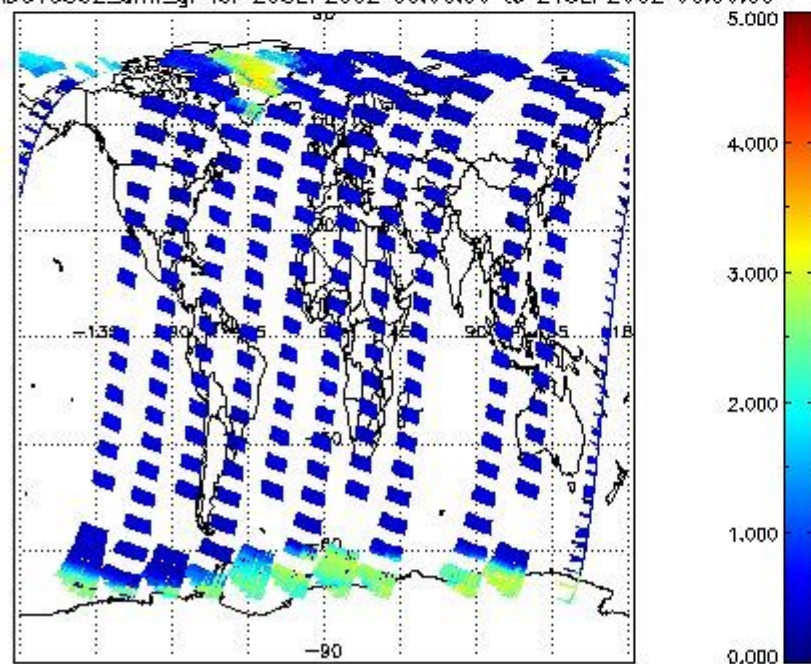
SCIOL2P\_NADUV5S02\_vcd for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



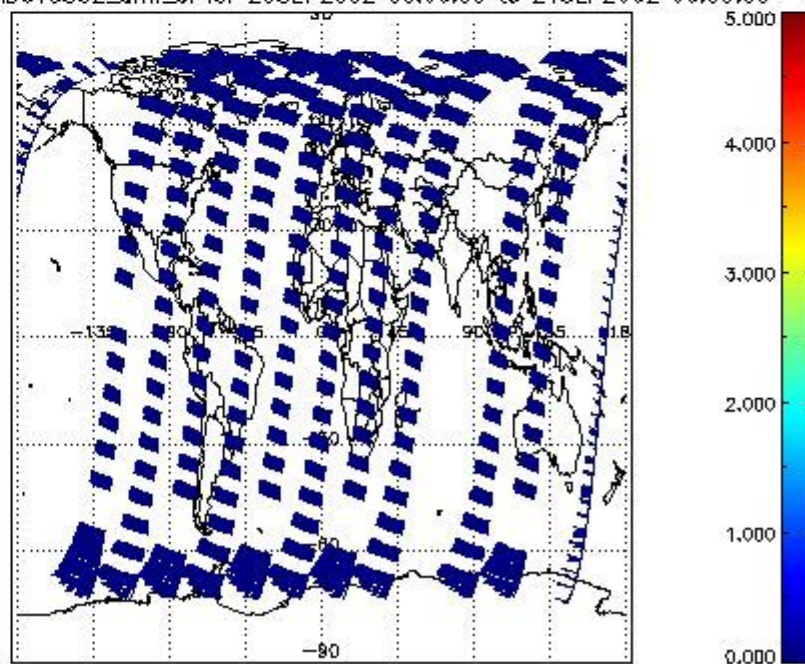
SCIOL2P\_NADUV5S02\_vcd\_err for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



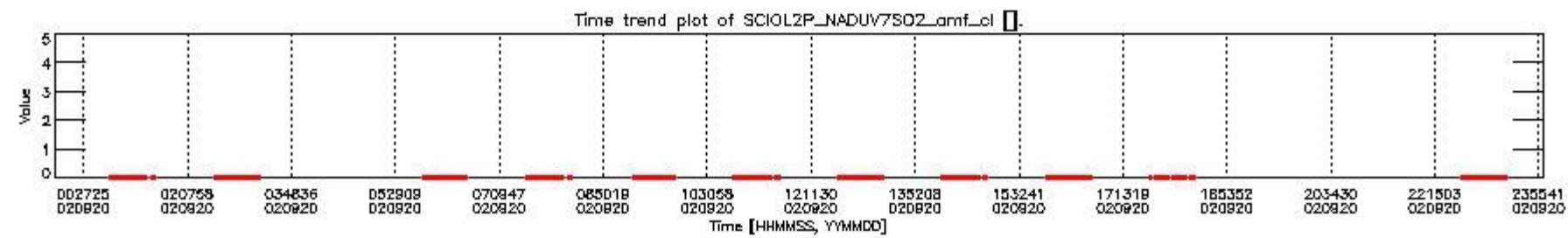
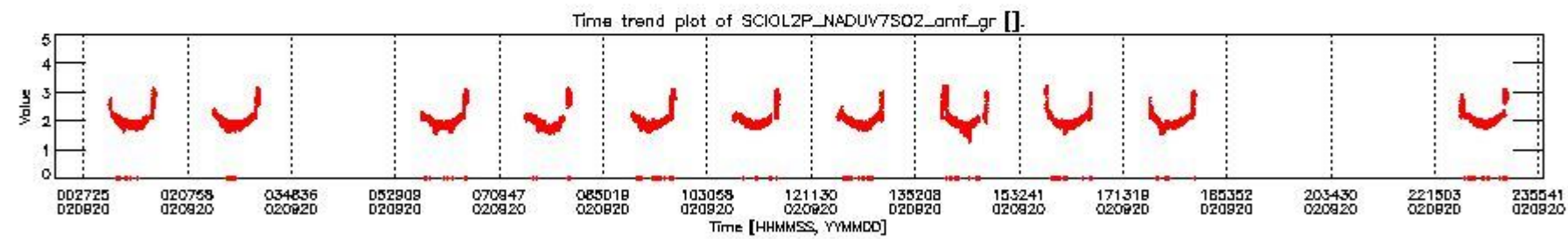
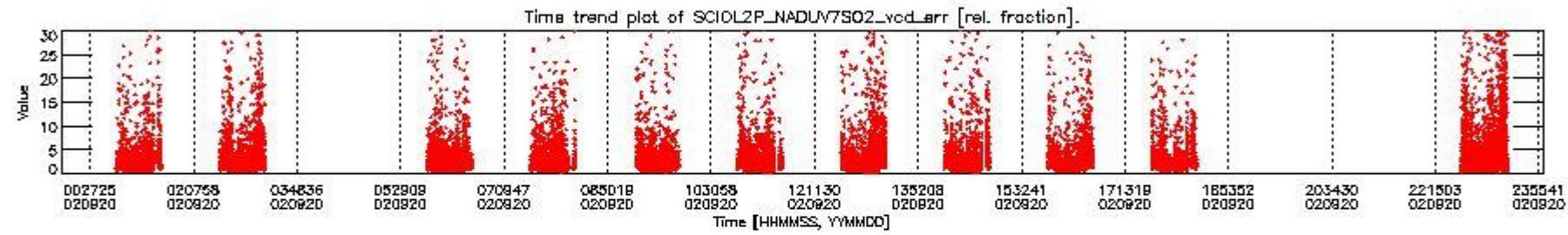
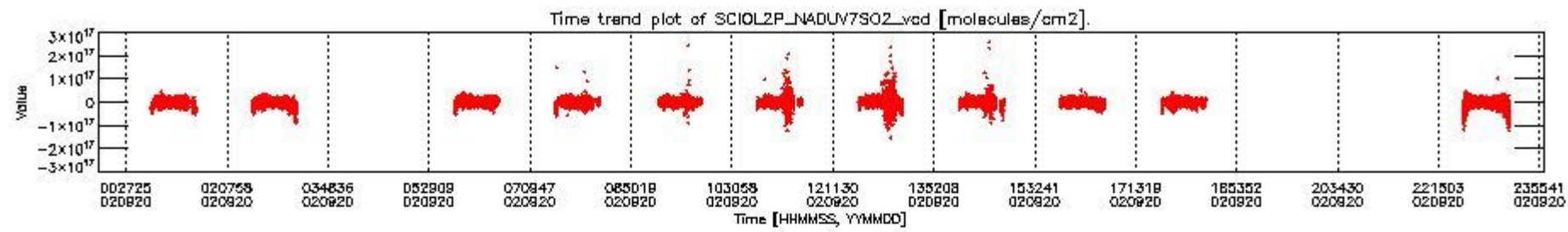
SCIOL2P\_NADUV5S02\_amf\_gr for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



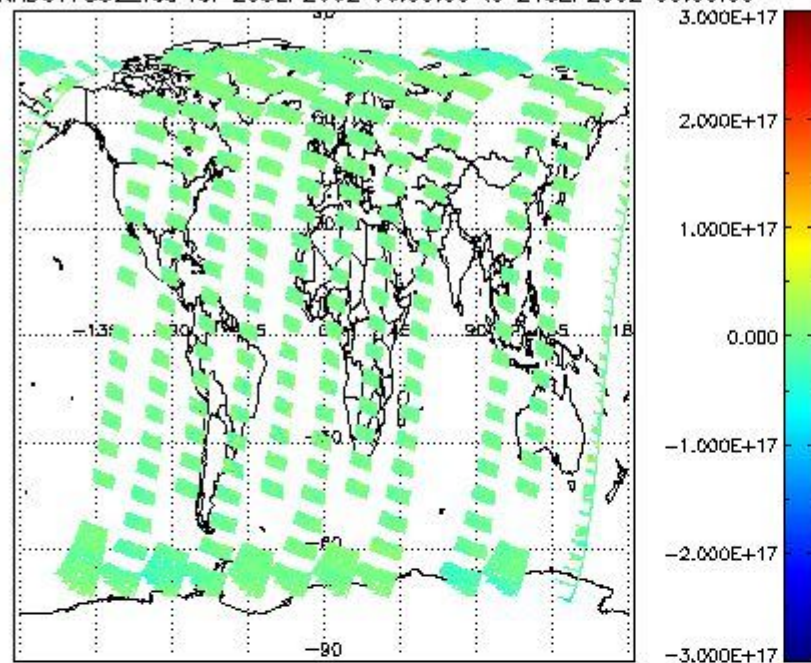
SCIOL2P\_NADUV5S02\_amf\_cl for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



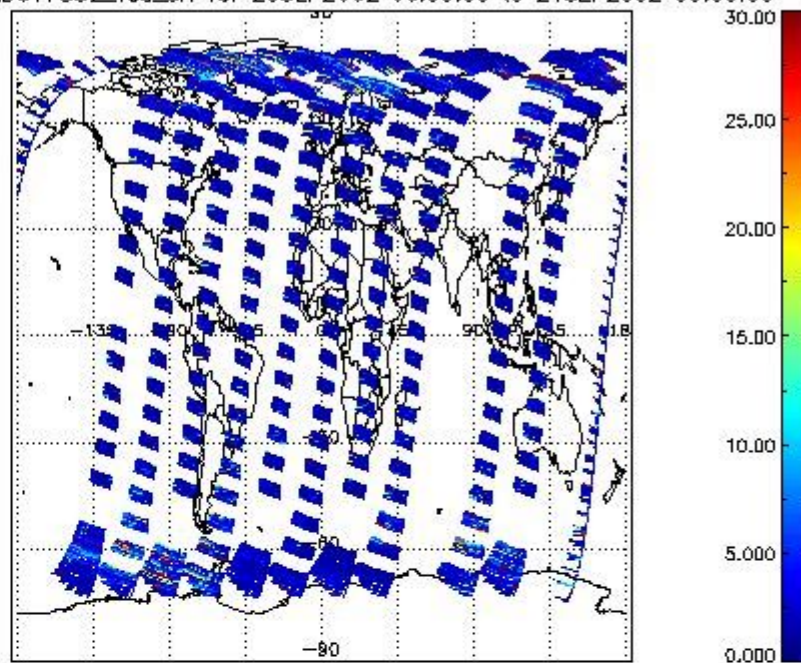
2.2.2.5 SO2 (UV7)



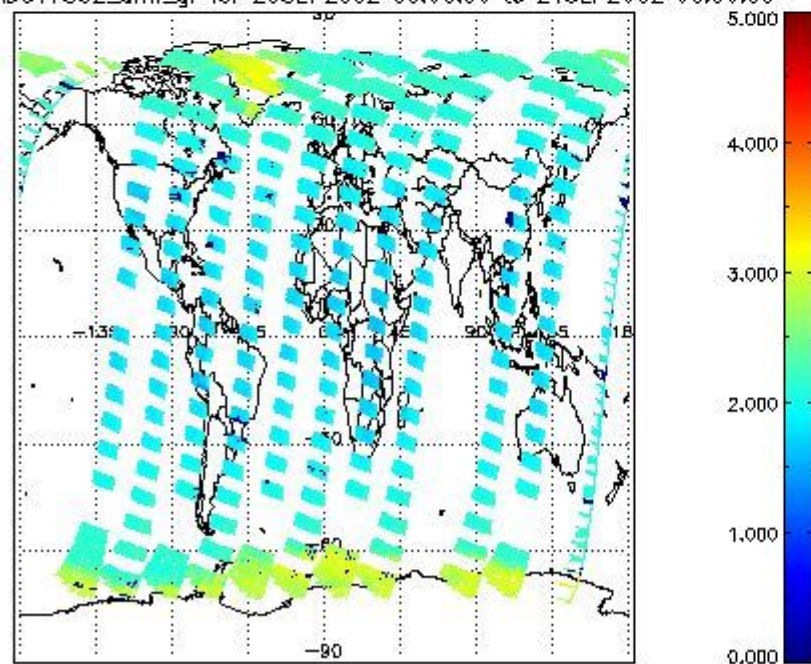
SCIOL2P\_NADUV7S02\_vcd for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



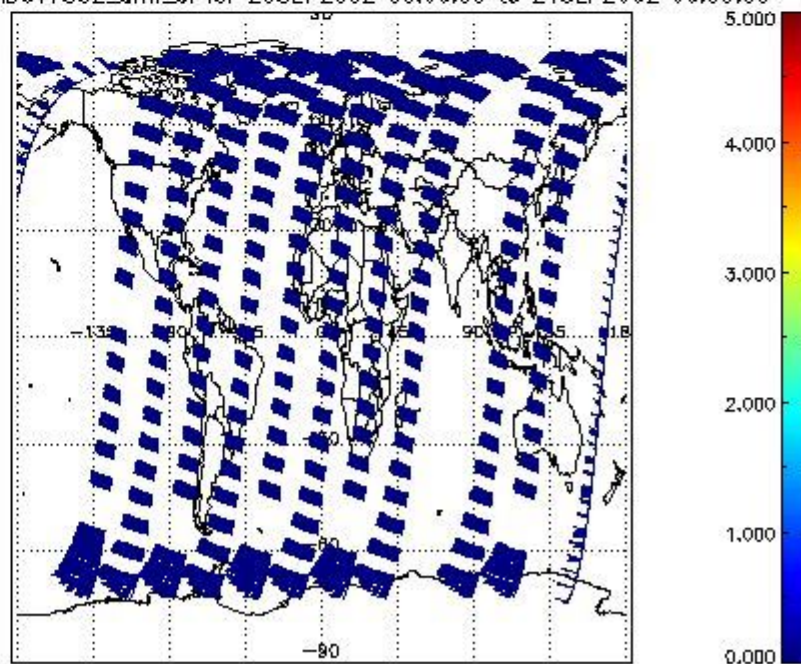
SCIOL2P\_NADUV7S02\_vcd\_err for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



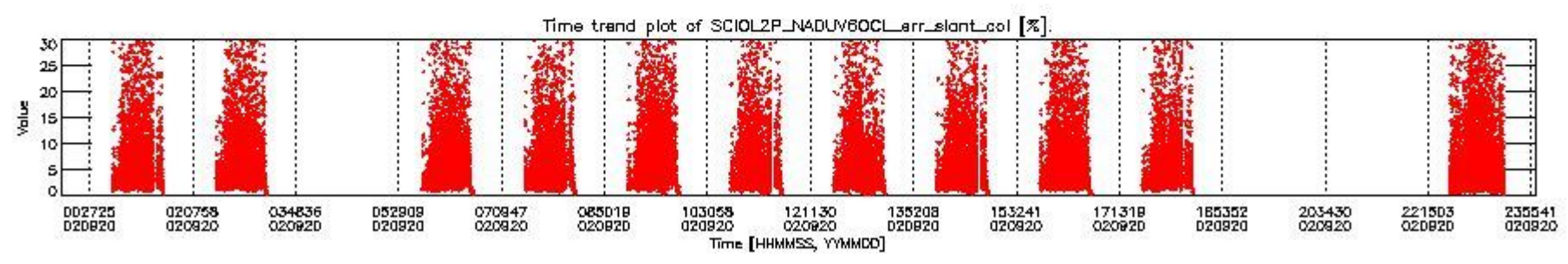
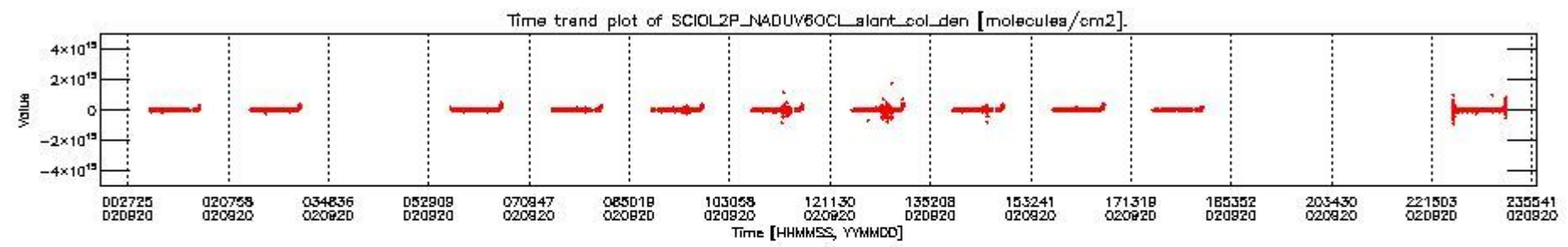
SCIOL2P\_NADUV7S02\_amf\_gr for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



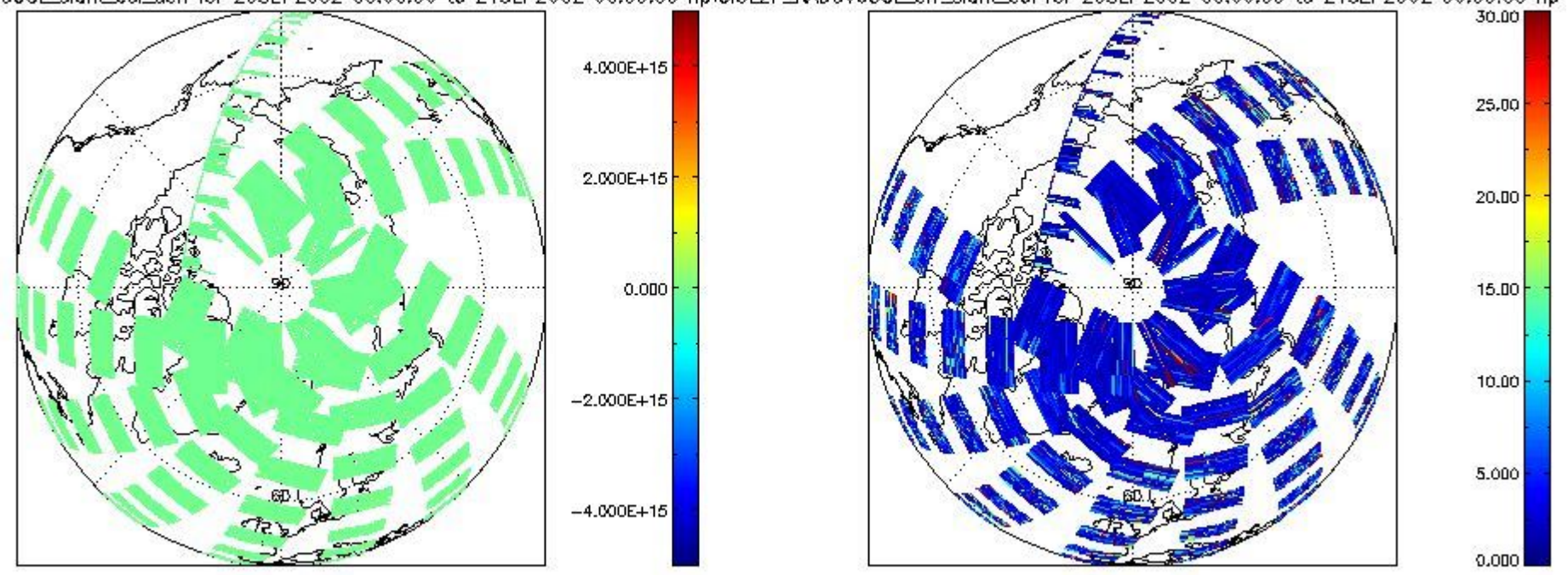
SCIOL2P\_NADUV7S02\_amf\_cl for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



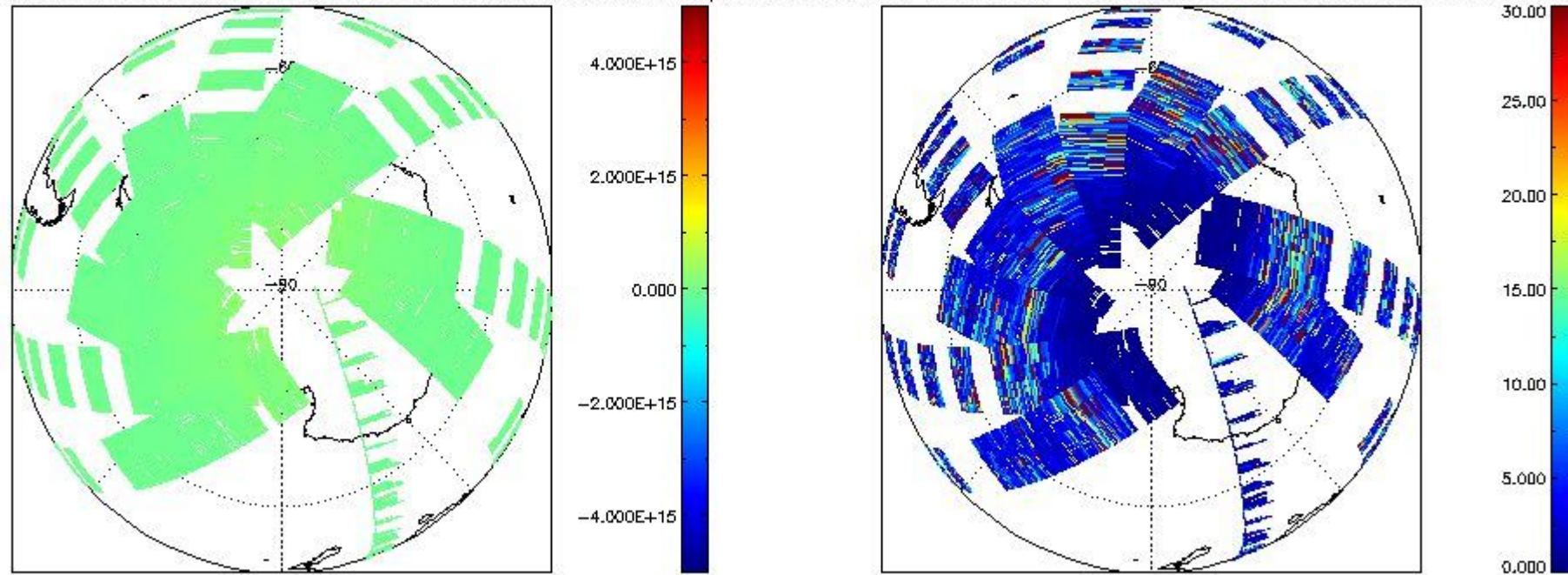
2.2.2.6 OCIO (UV6)



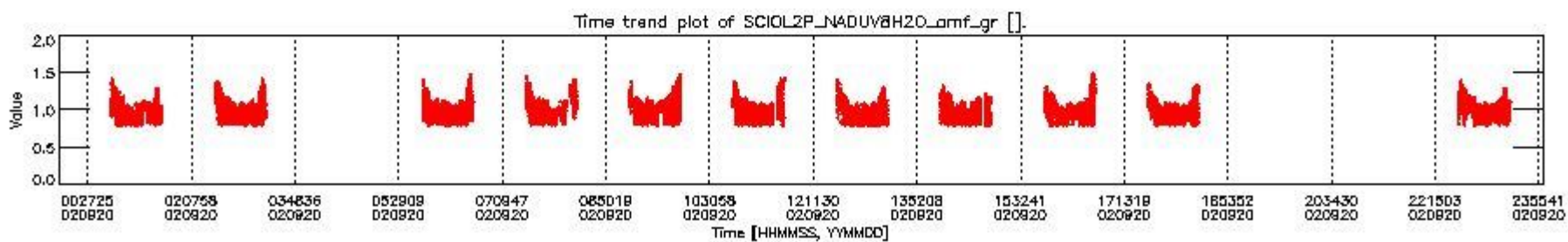
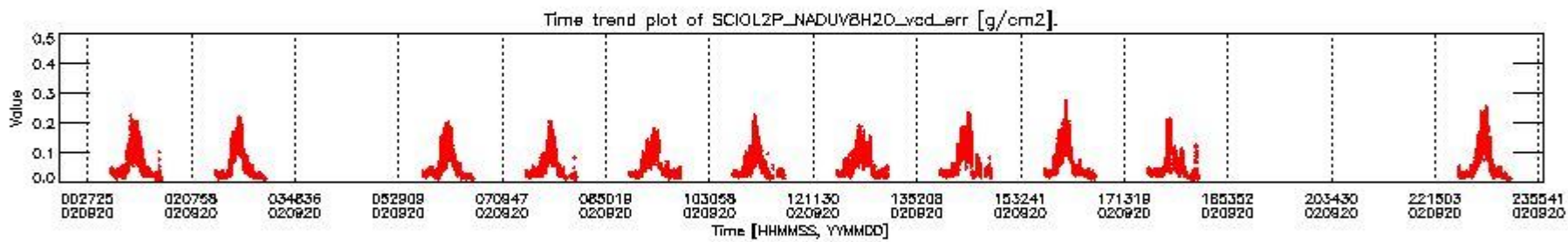
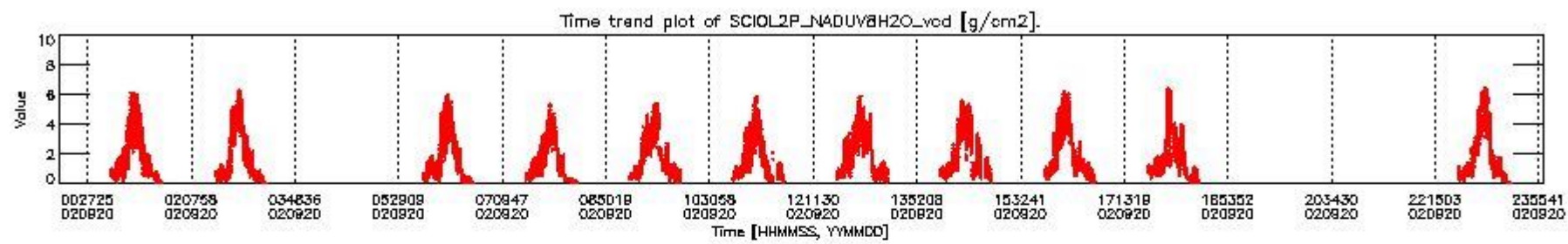
CIOL2P\_NADUV60CLslant\_col\_den for 20SEP2002 00:00:00 to 21SEP2002 00:00:00 np; CIOL2P\_NADUV60CLarr\_slant\_col for 20SEP2002 00:00:00 to 21SEP2002 00:00:00 np



CIOL2P\_NADUV60CL\_slant\_col\_den for 20SEP2002 00:00:00 to 21SEP2002 00:00:00 sp; CIOL2P\_NADUV60CL\_err\_slant\_col for 20SEP2002 00:00:00 to 21SEP2002 00:00:00 sp

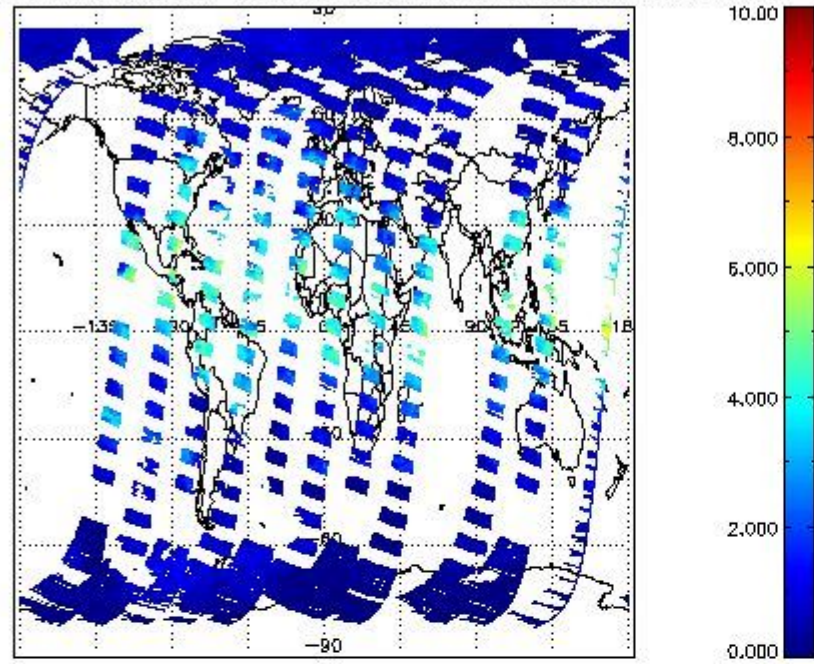


### 2.2.2.7 H<sub>2</sub>O (UV8)

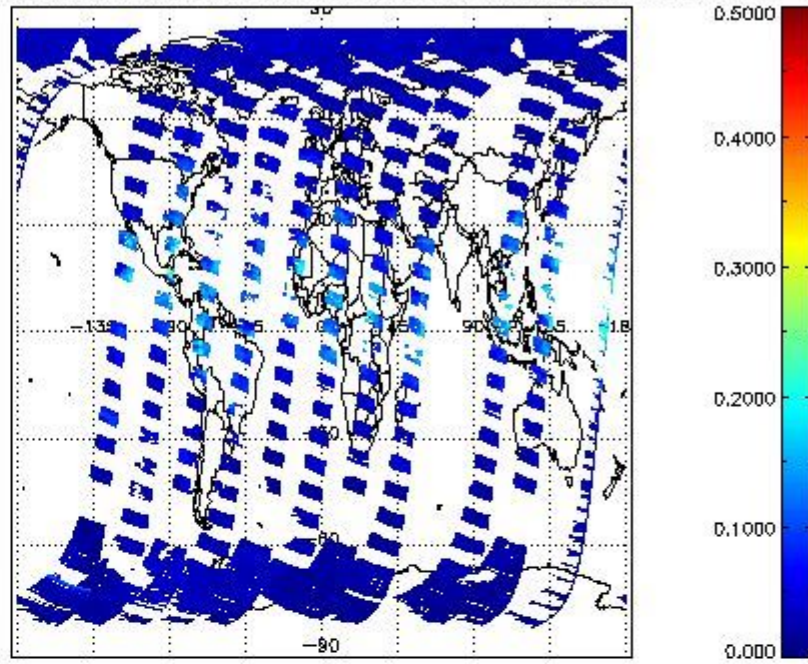




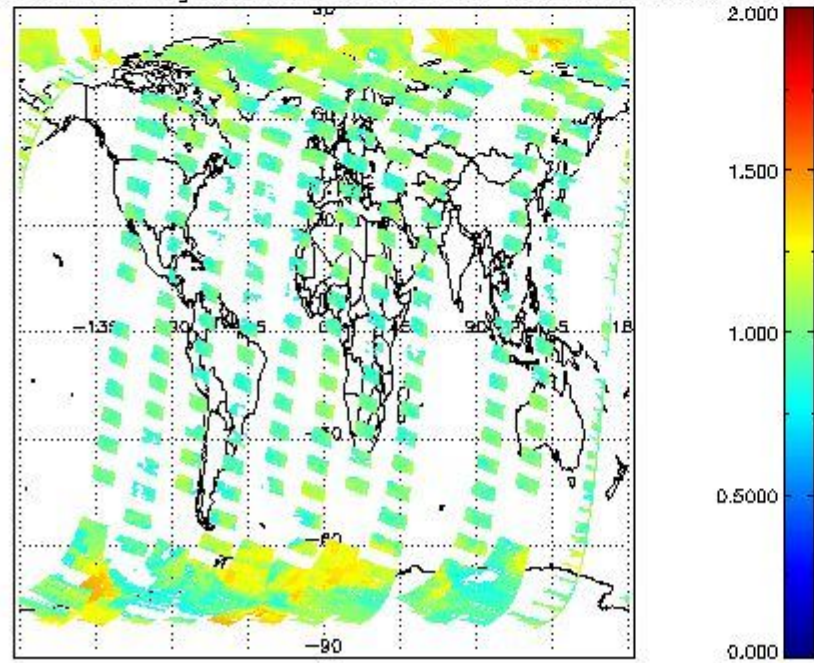
SCIOL2P\_NADUV8H2O\_vcd for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



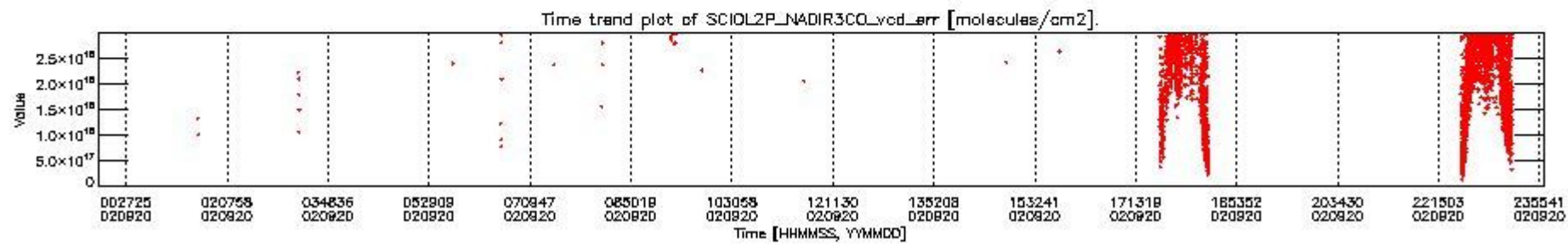
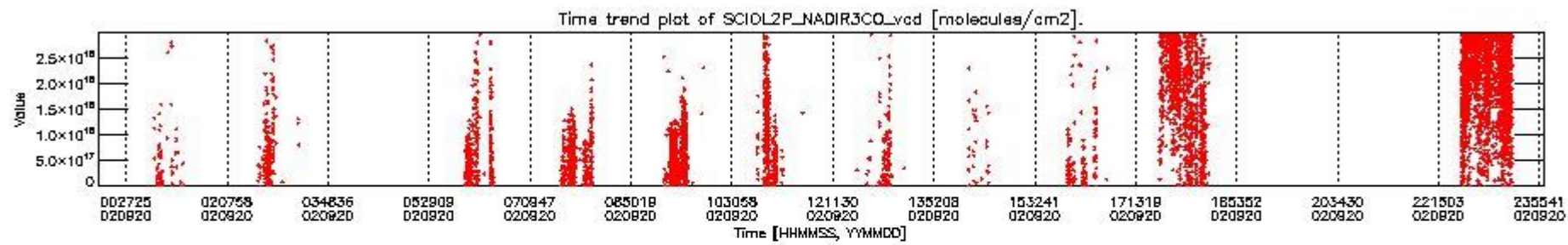
SCIOL2P\_NADUV8H2O\_vcd\_err for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



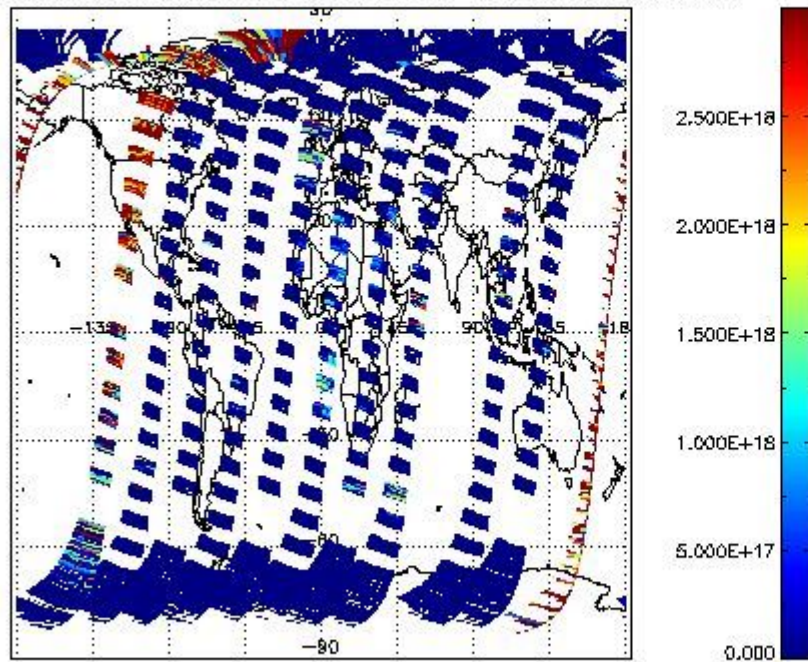
SCIOL2P\_NADUV8H2O\_arnf\_gr for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



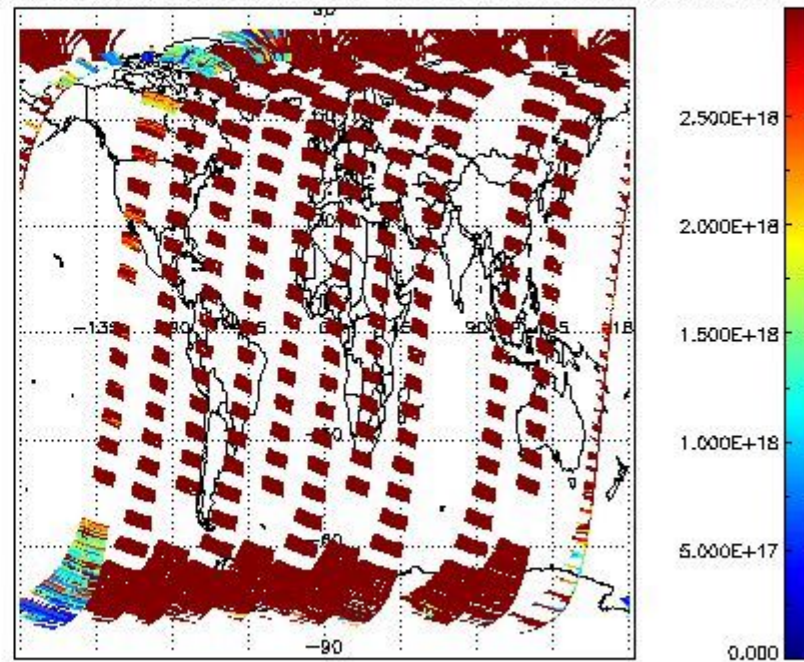
### 2.2.2.8 CO (IR3)



SCIOL2P\_NADIR3CO\_vcd for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



SCIOL2P\_NADIR3CO\_vcd\_err for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



### 2.2.3 Limb

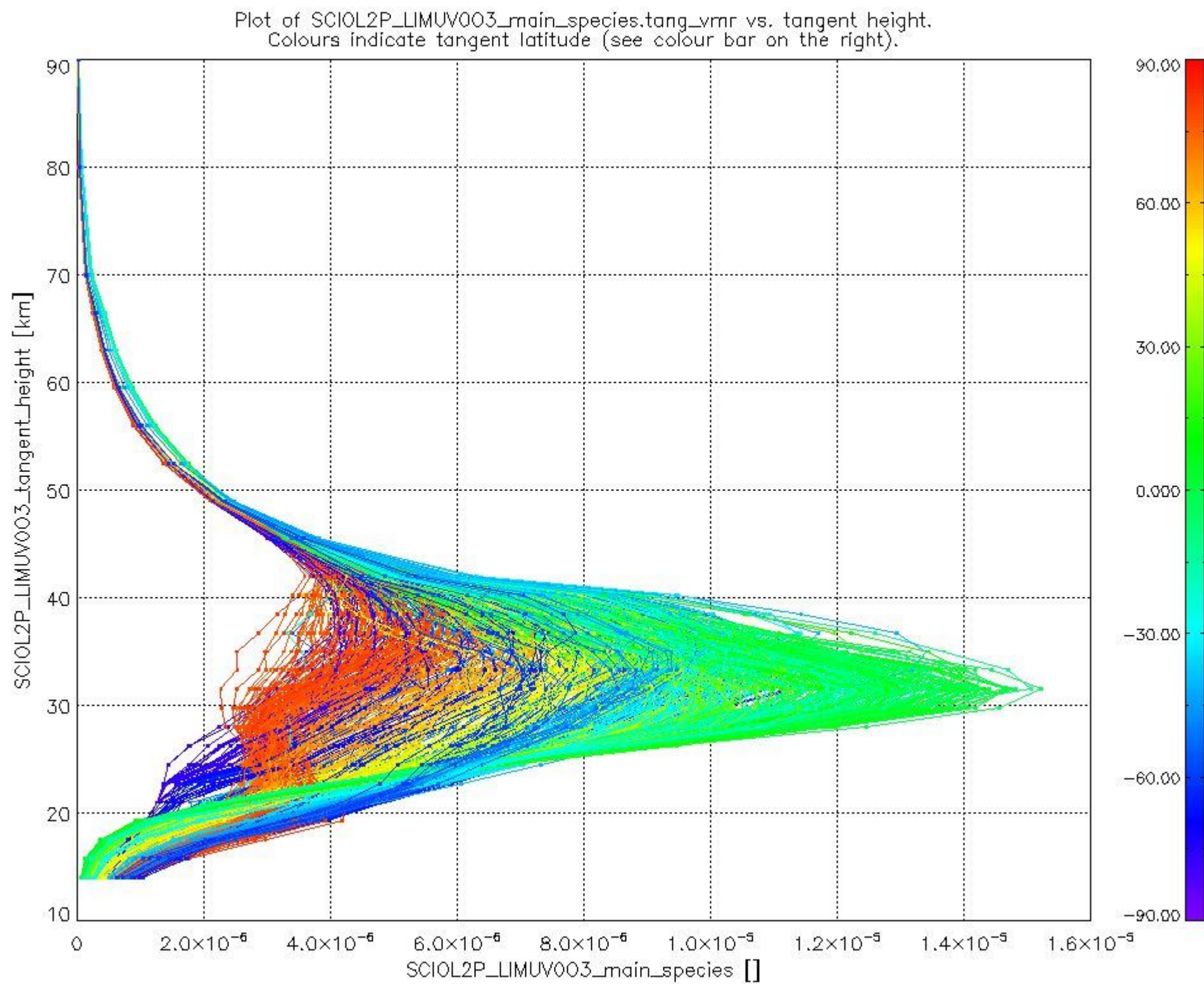
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_LIMUV003_main_species
1	SCIOL2P_LIMUV1NO2_main_species
2	SCIOL2P_LIMUV3BRO_main_species

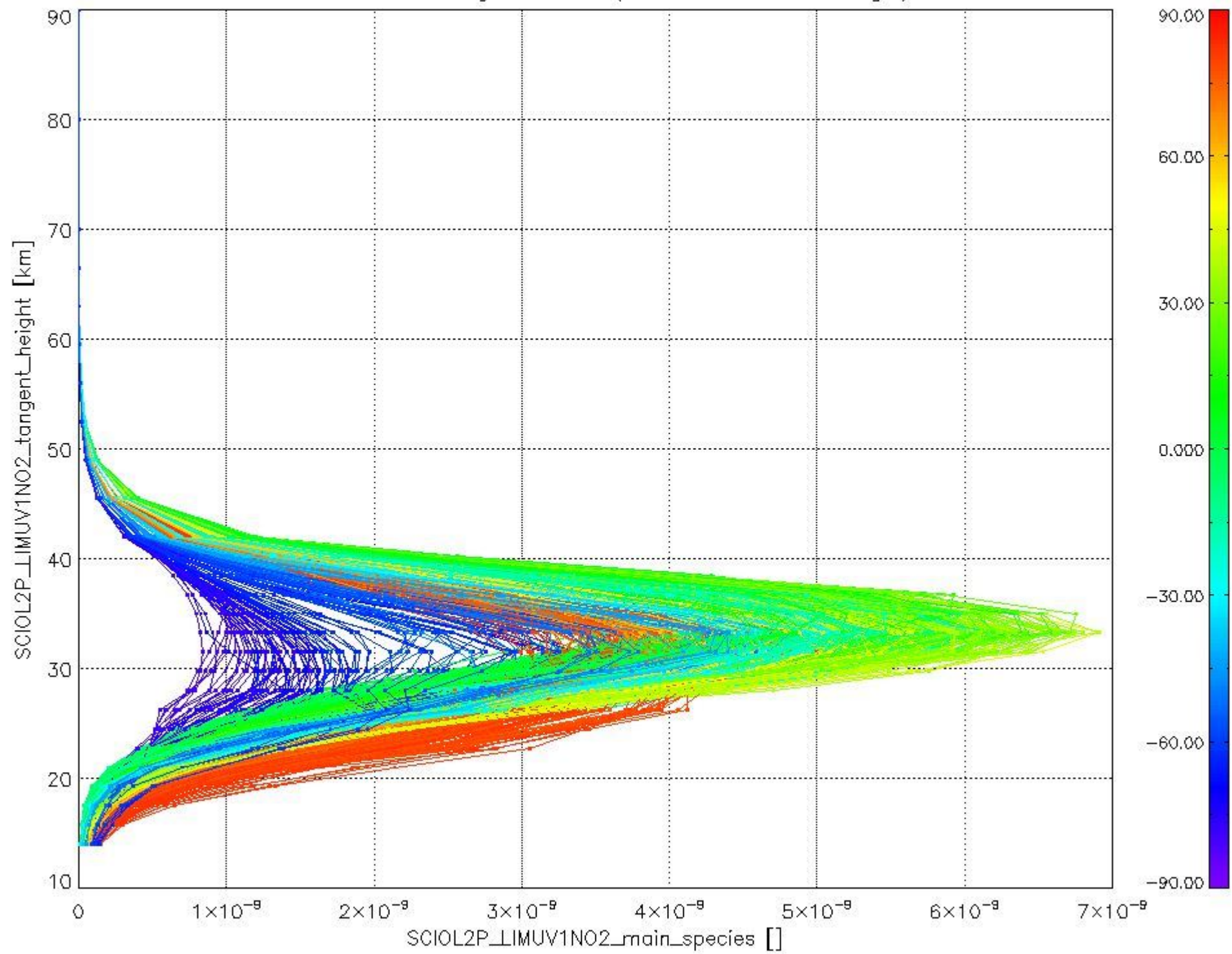
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

### 2.2.3.1 O3 (UV0)



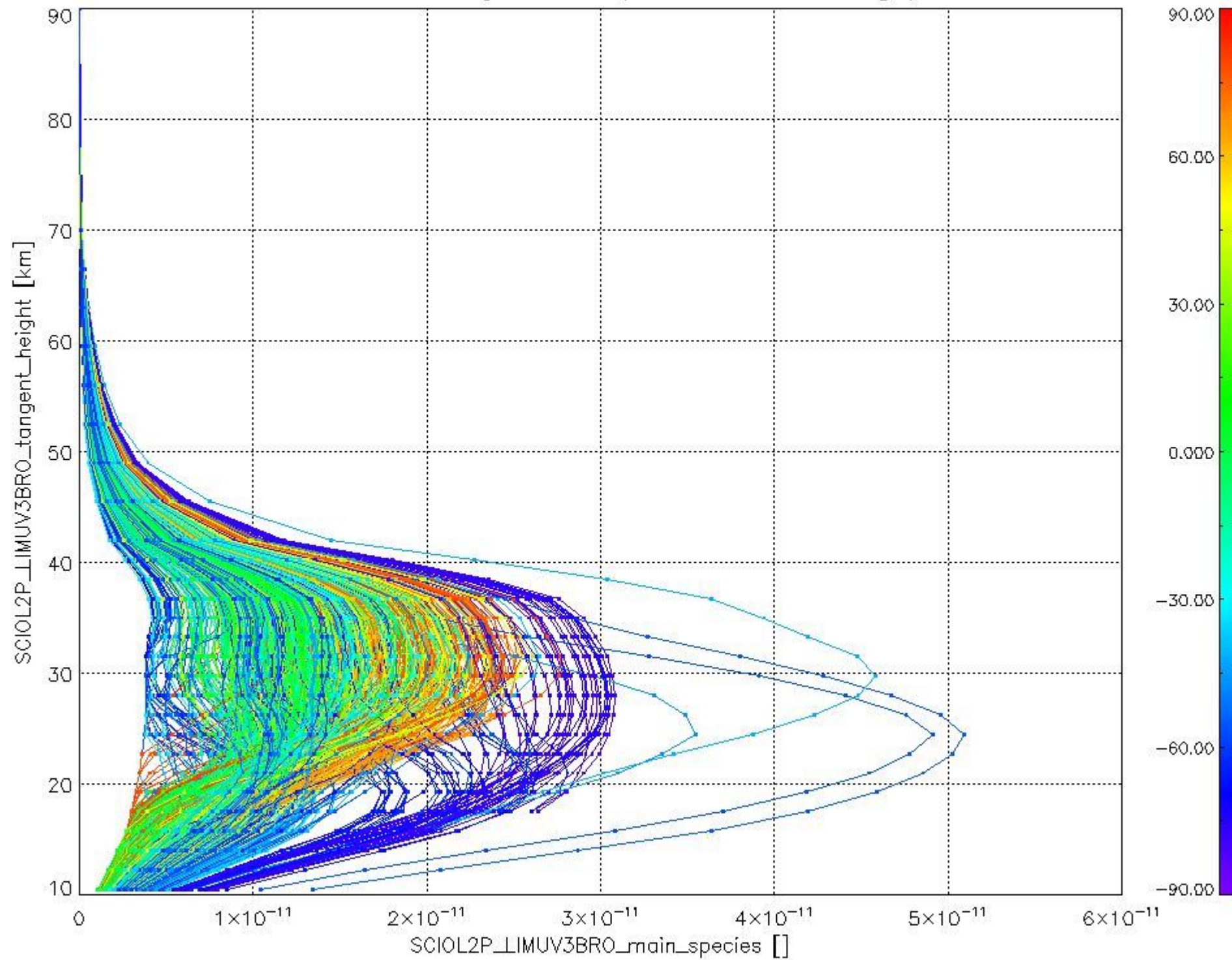
### 2.2.3.2 NO2 (UV1)

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).

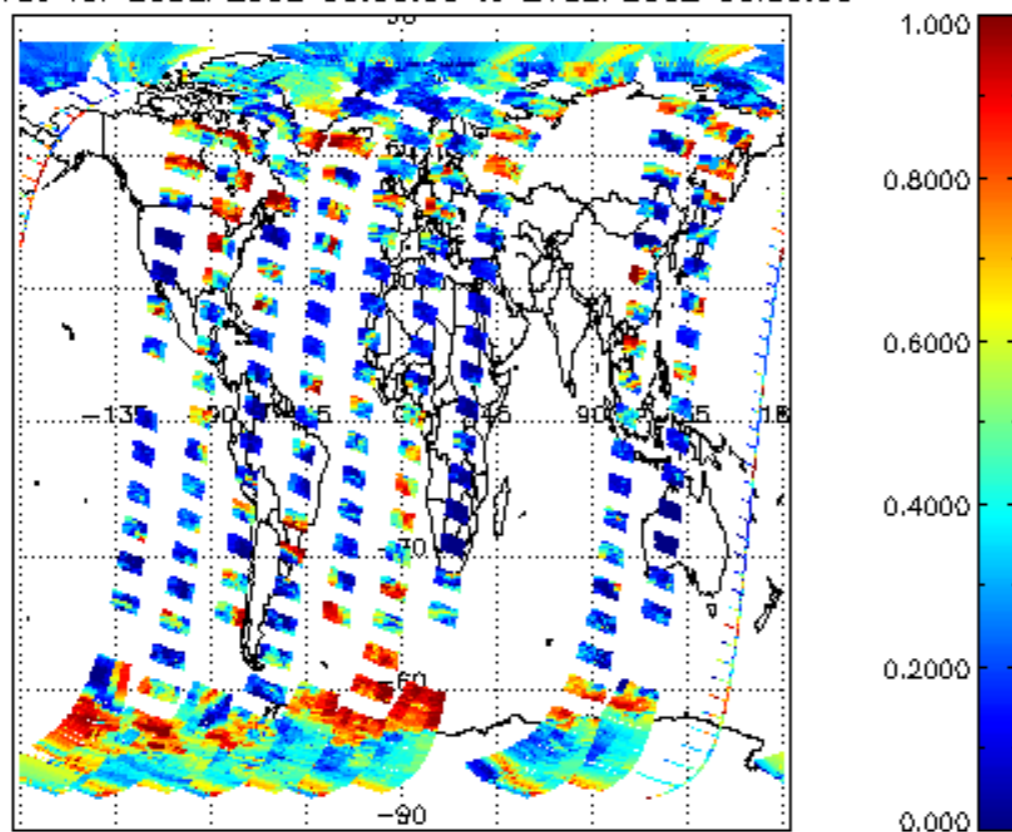


### 2.3 ADF monitoring

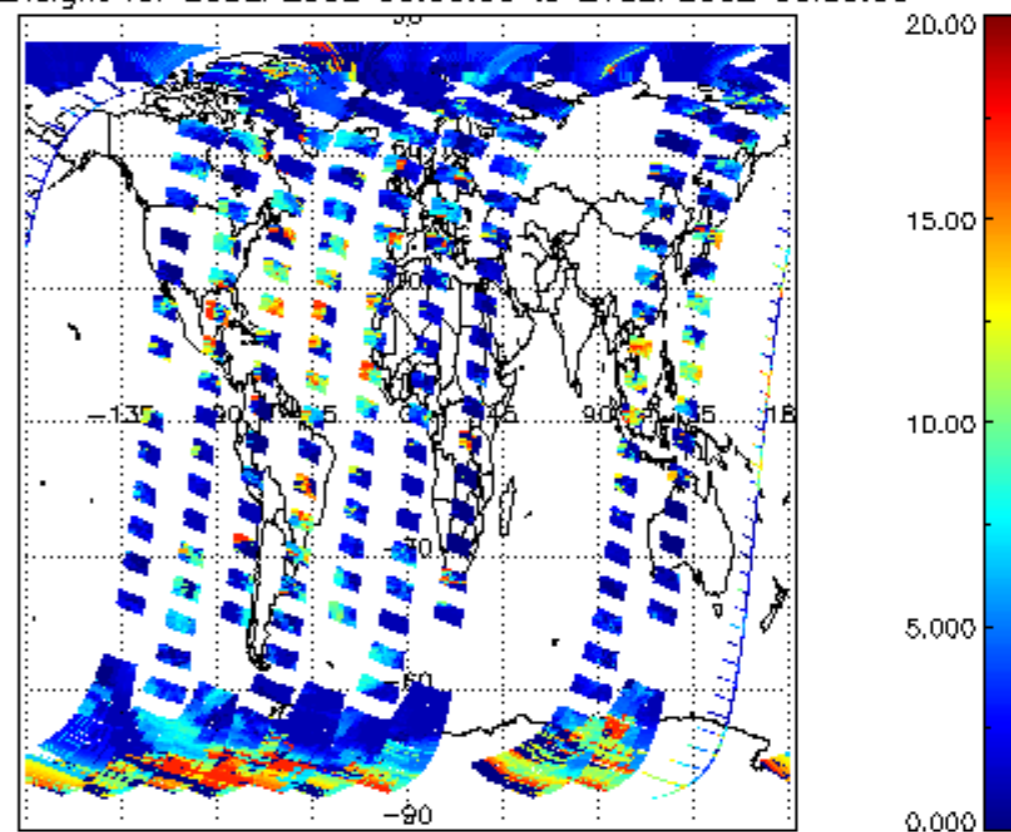
Number	ADF
	<b>IN_ (INITIALISATION_FILE)</b>
0	SCI_IN_AXNPDE20110201_120000_20020301_000000_20991231_235959
	<b>ECF (ECMWF_FILE)</b>
1	NOT USED
	<b>MF1 (M_FACTOR_FILE)</b>
2	SCI_MF1_AXNIEC20100218_134656_20020919_155304_20020921_155304
3	SCI_MF1_AXNIEC20100218_134757_20020920_152127_20020922_152127



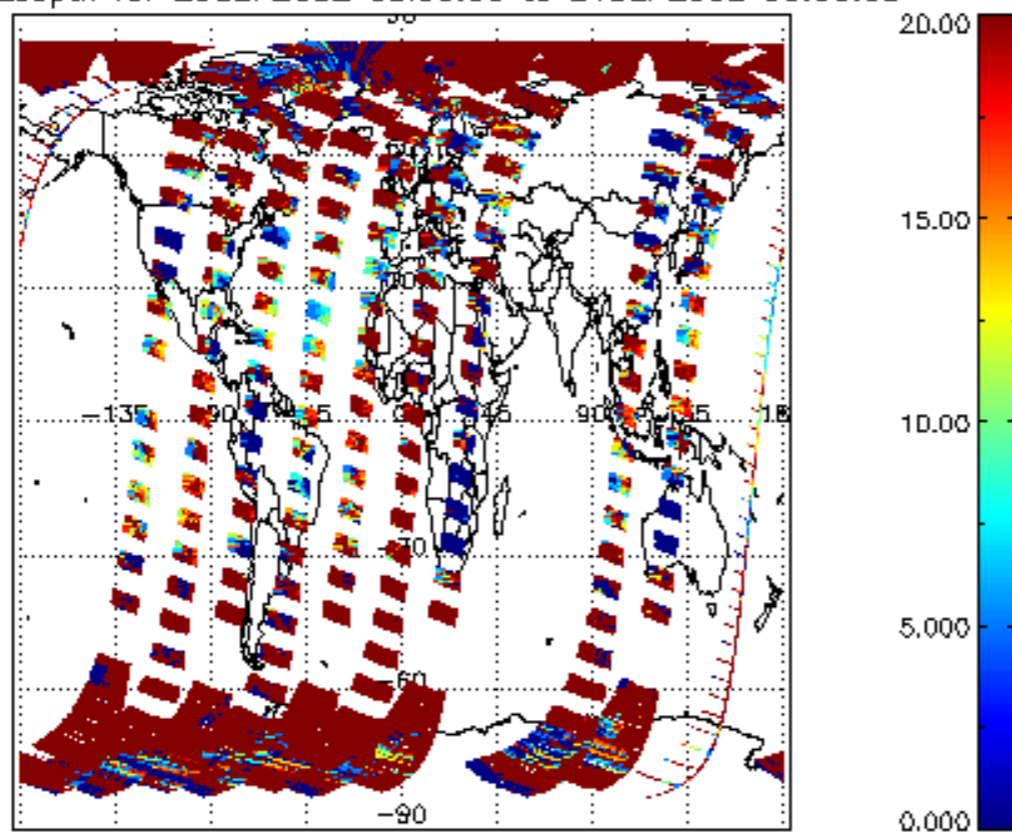
cl\_frac for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



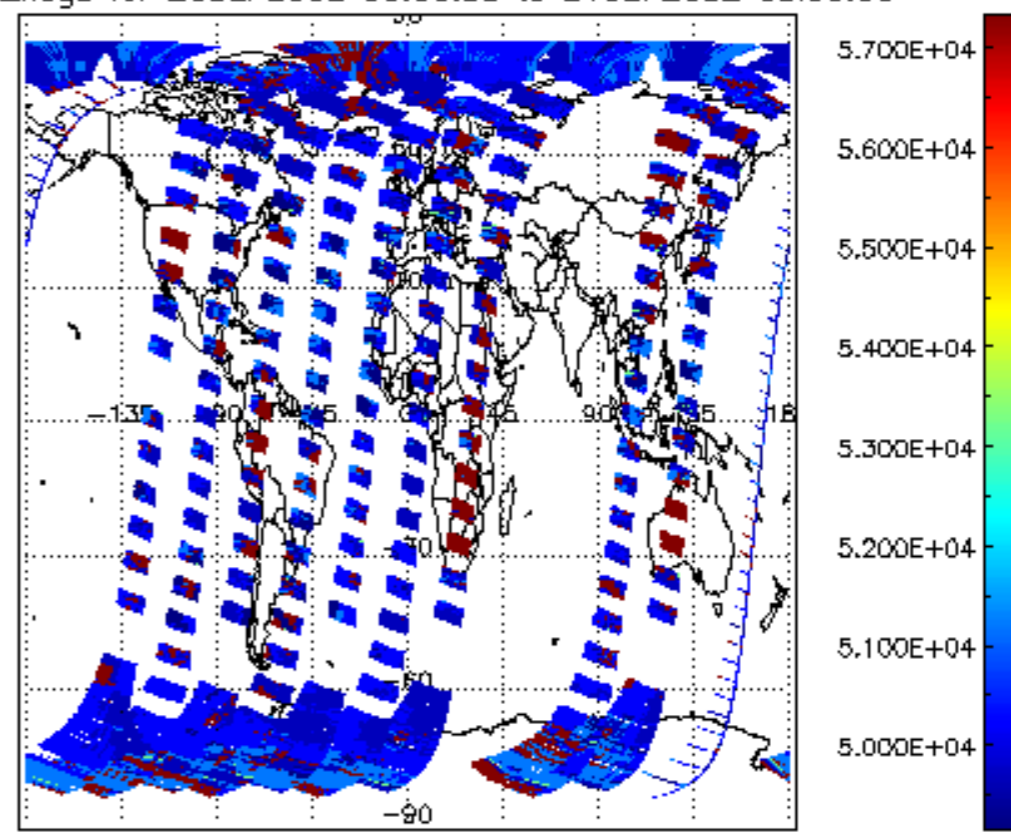
cl\_top\_height for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

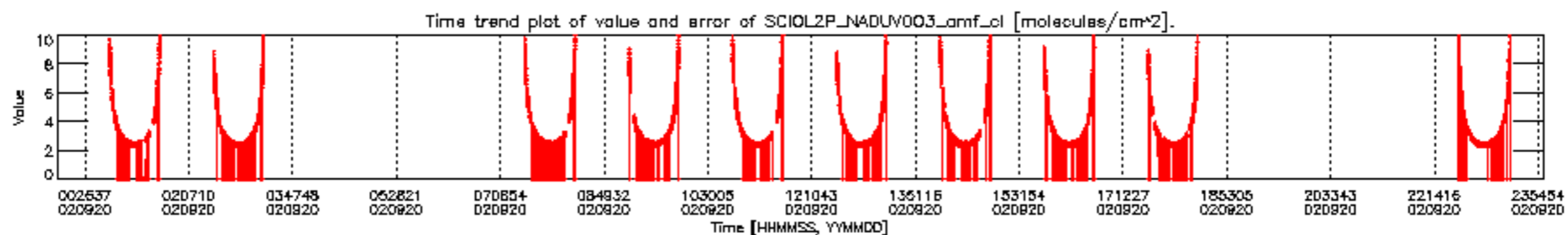
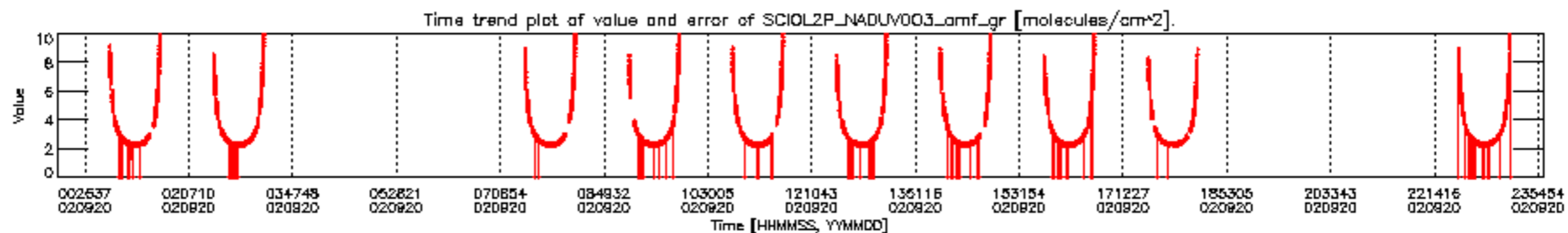
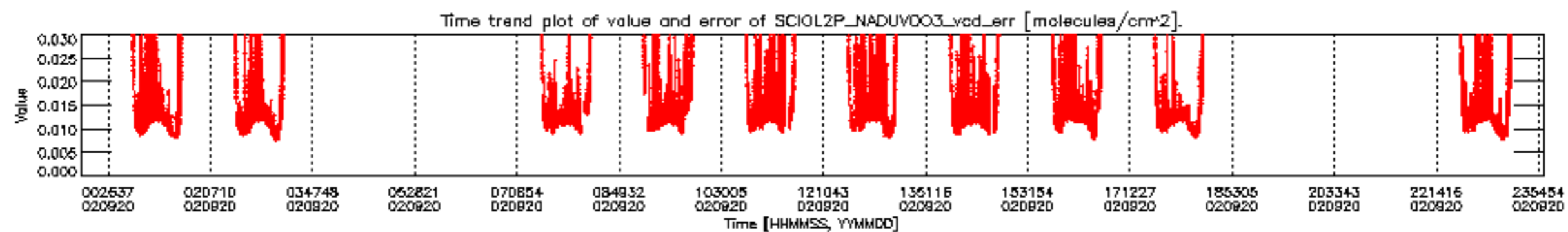
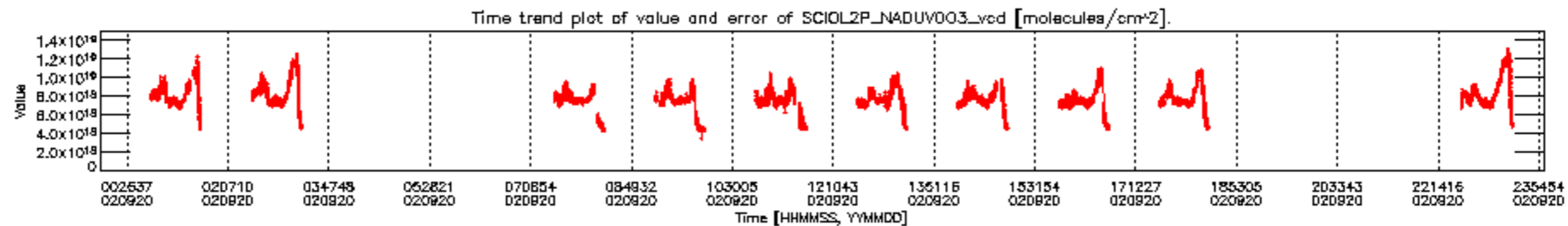


cl\_opt\_depth for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



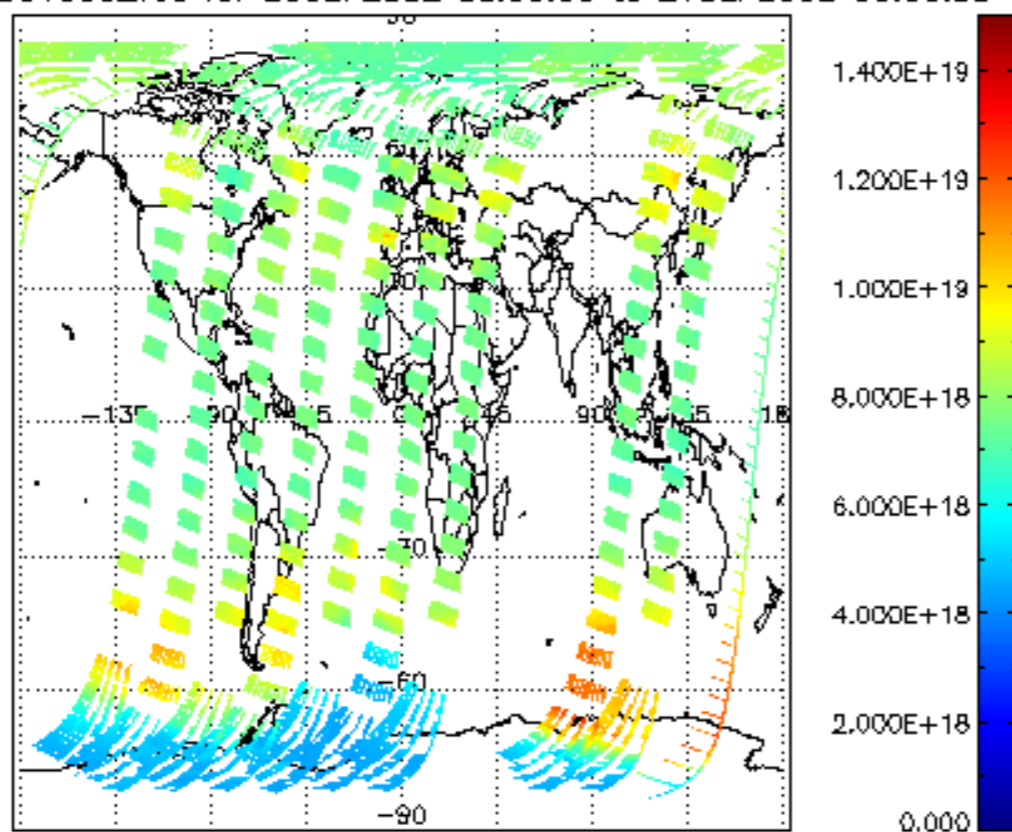
cloud\_flags for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



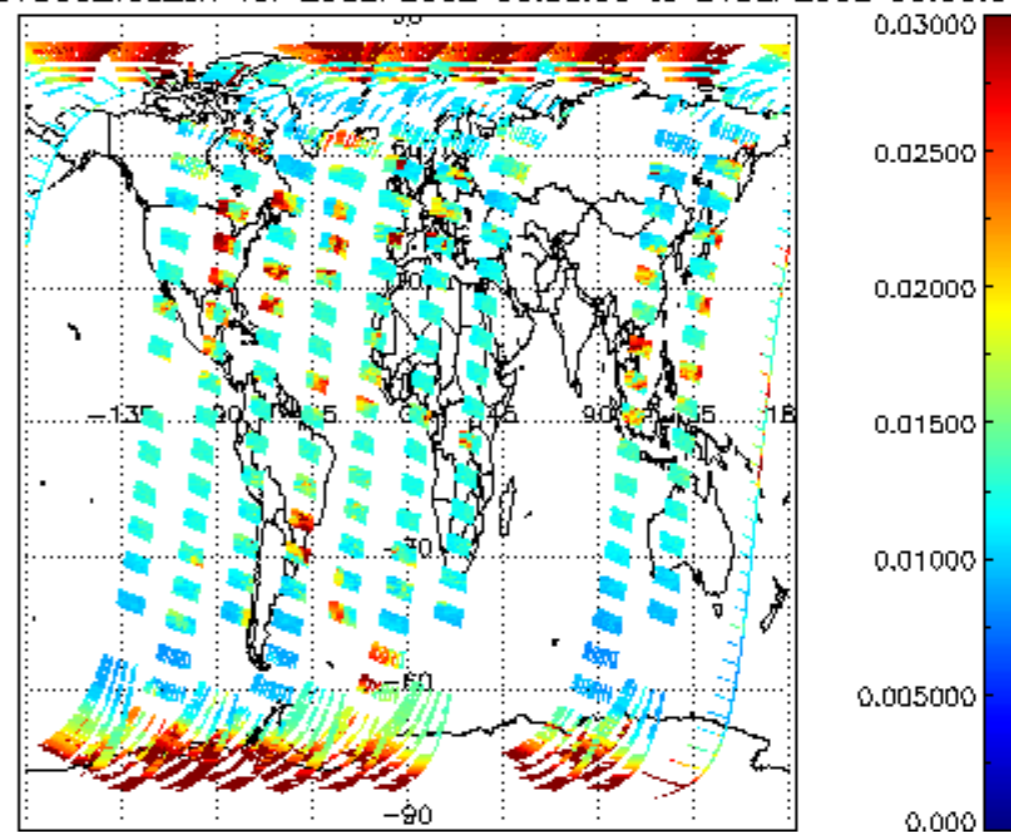




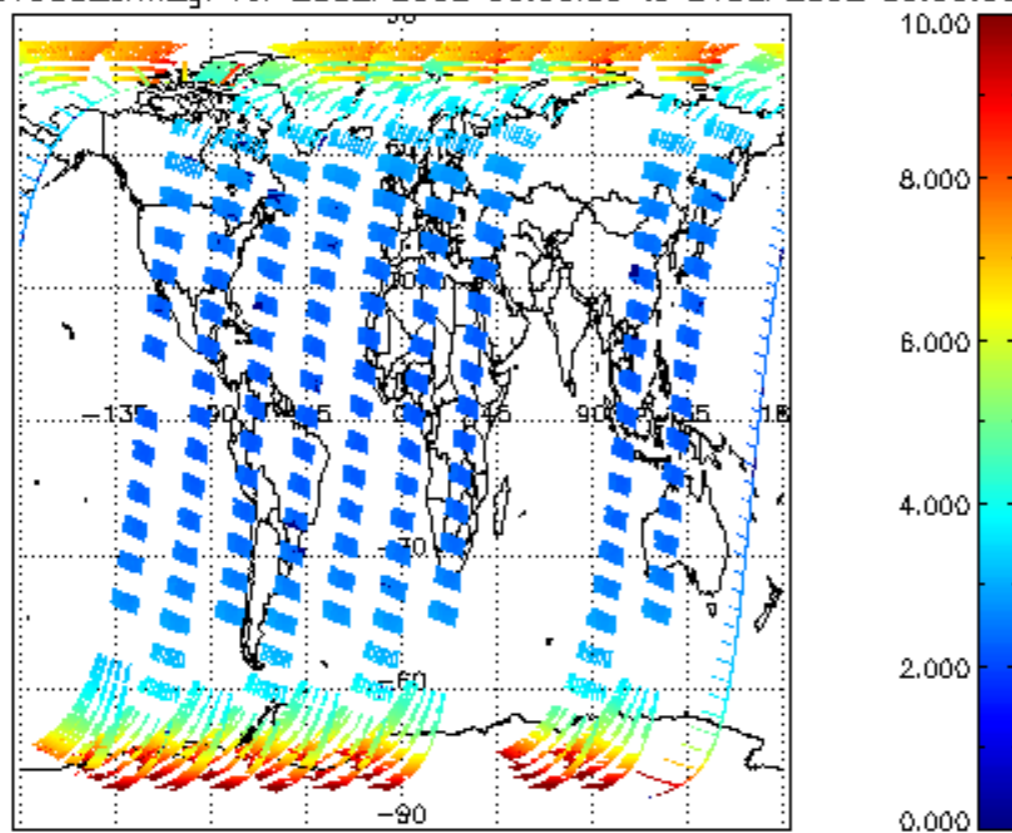
SCIOL2P\_NADUV003\_vcd for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



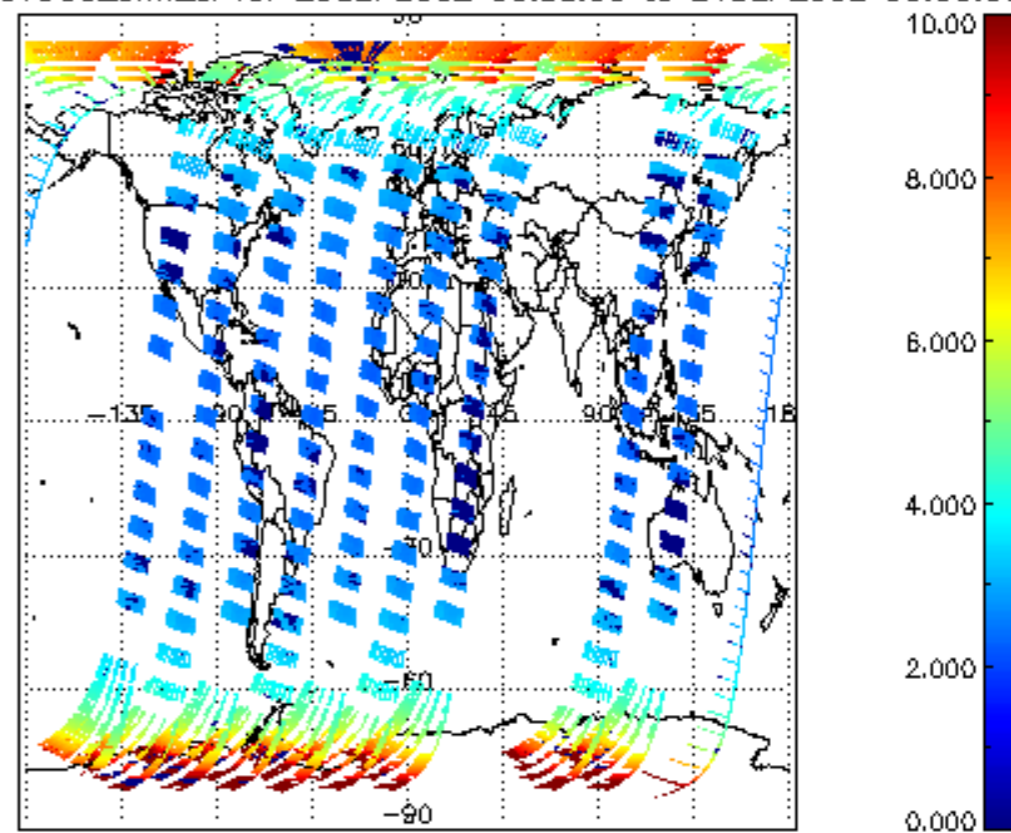
SCIOL2P\_NADUV003\_vcd\_err for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

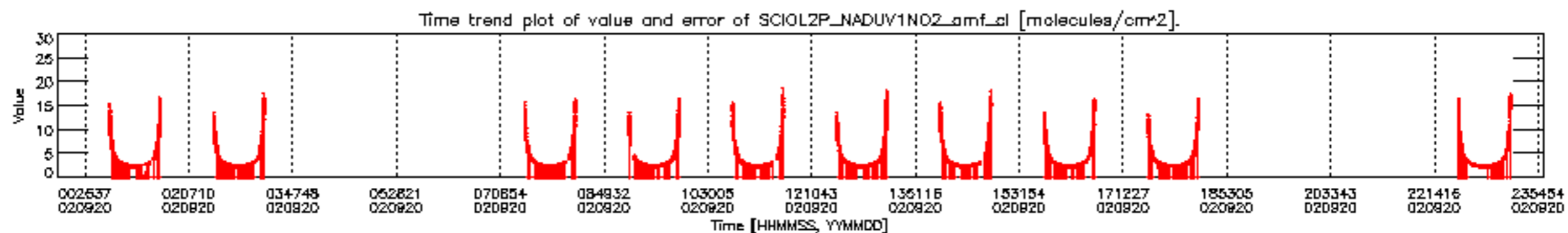
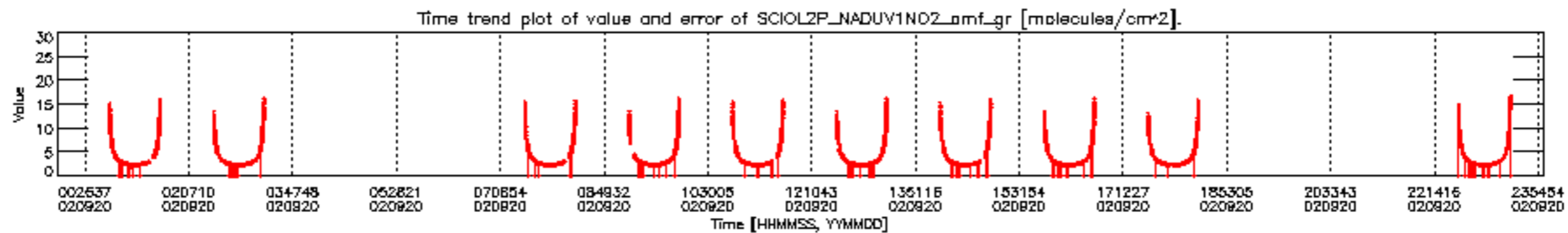
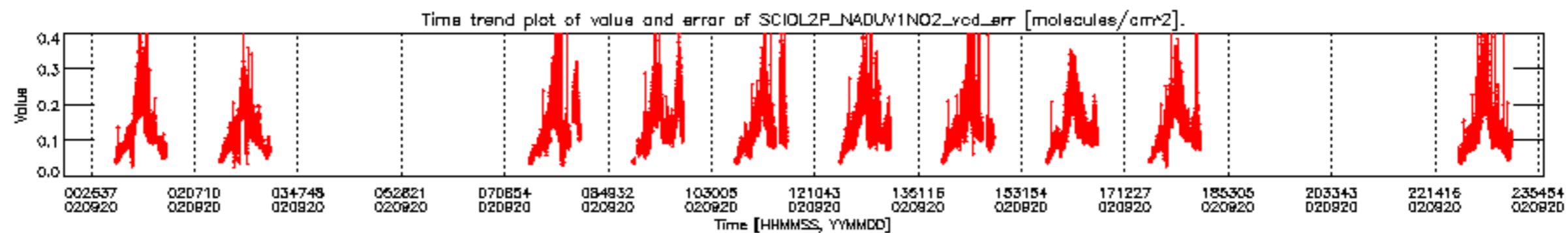
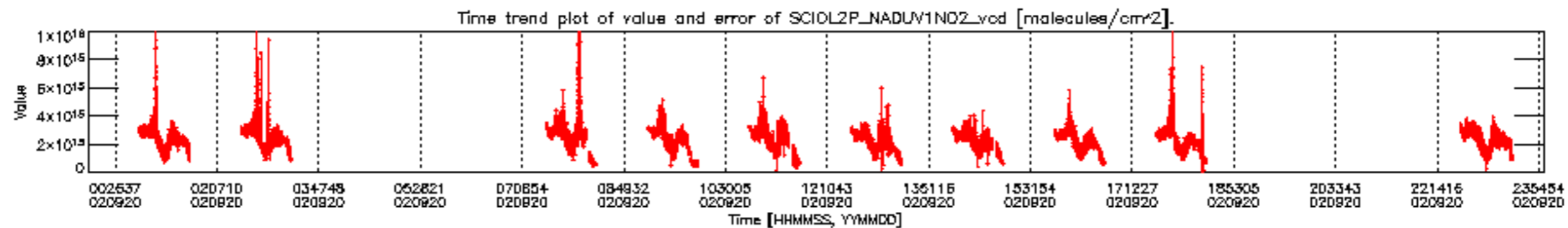


SCIOL2P\_NADUV003\_amf\_gr for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

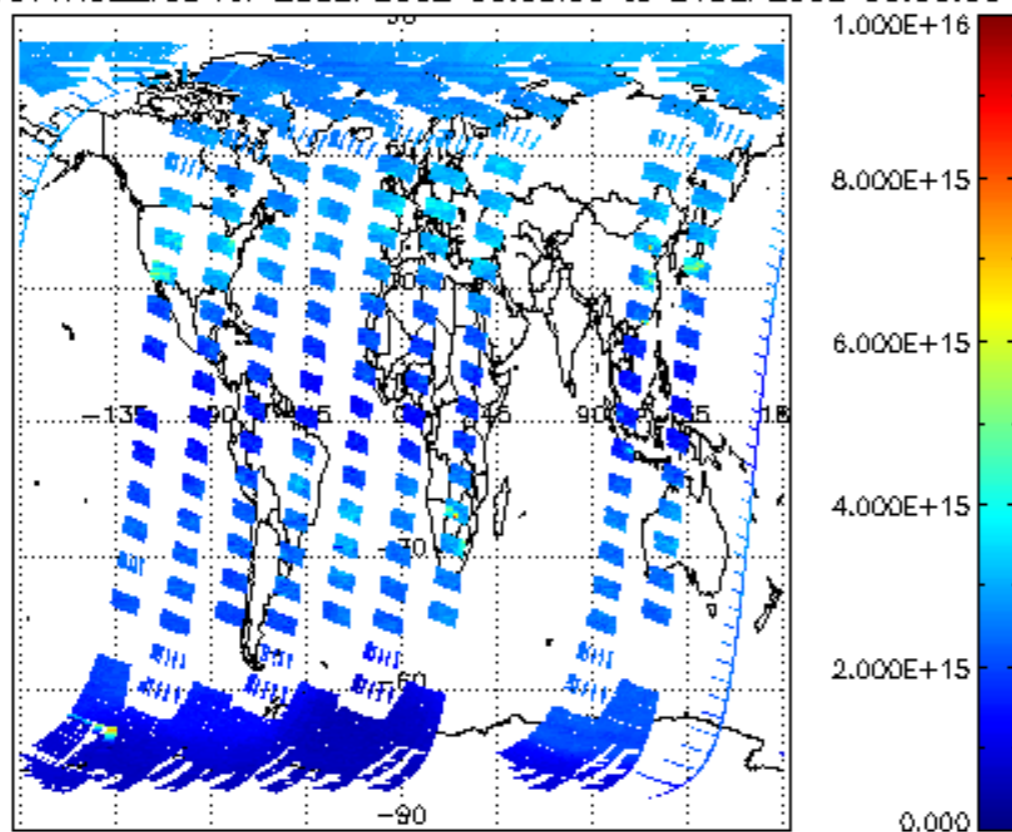


SCIOL2P\_NADUV003\_amf\_cl for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

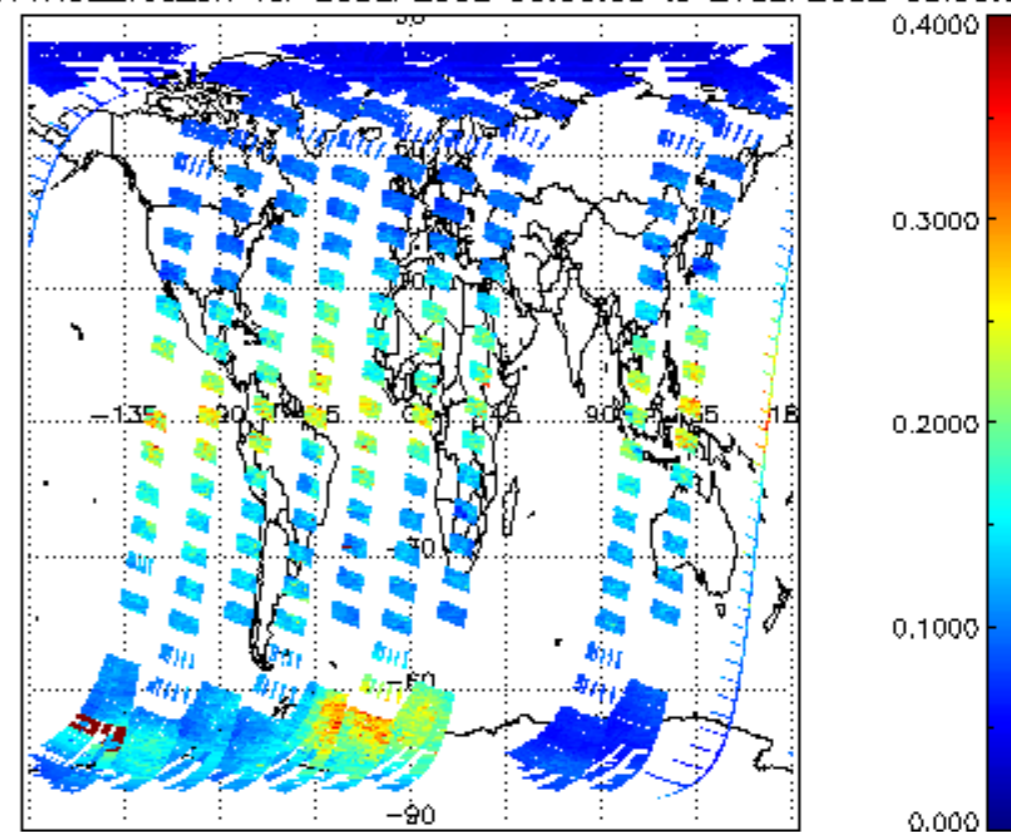




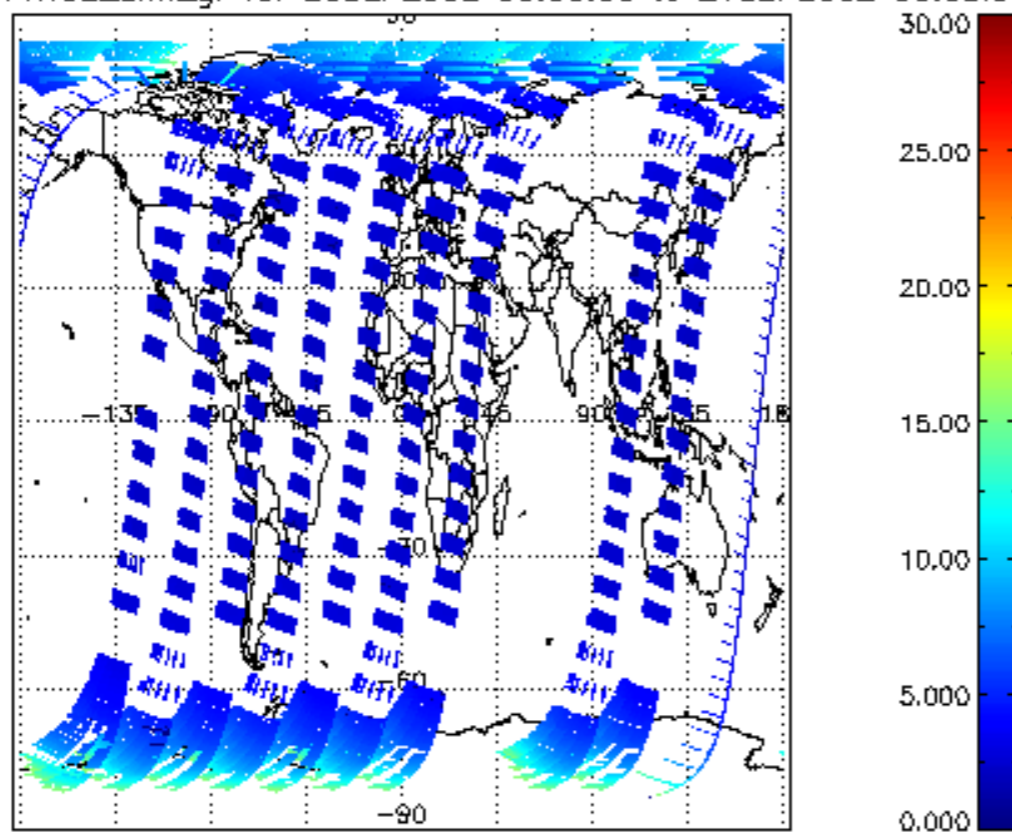
SCIOL2P\_NADUV1NO2\_vcd for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



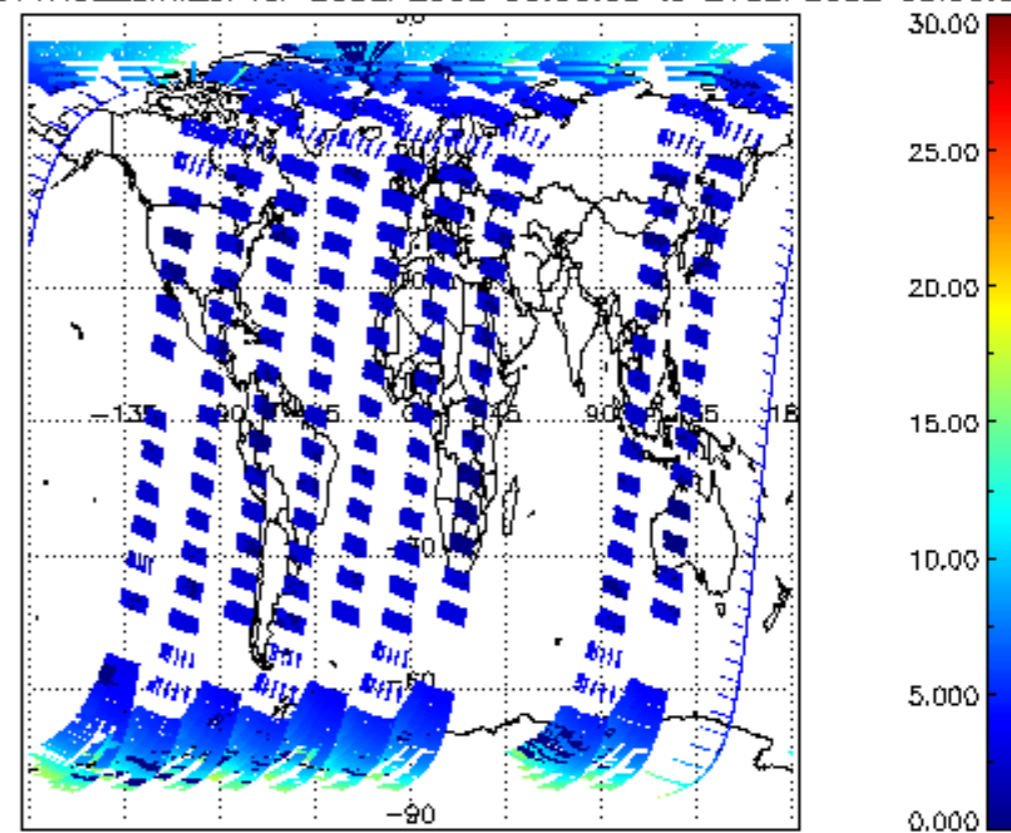
iCIOL2P\_NADUV1NO2\_vcd\_err for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



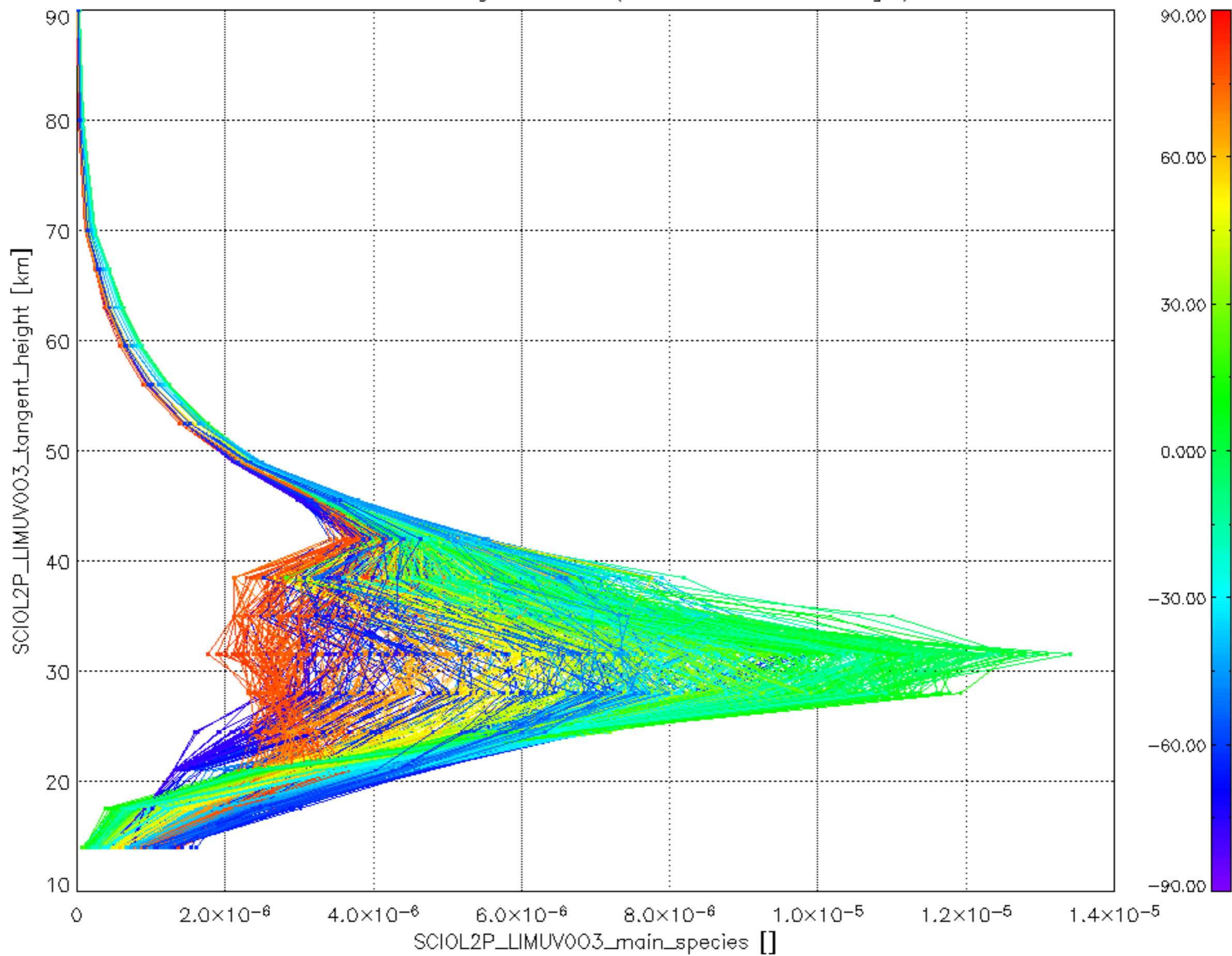
iCIOL2P\_NADUV1NO2\_amf\_gr for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



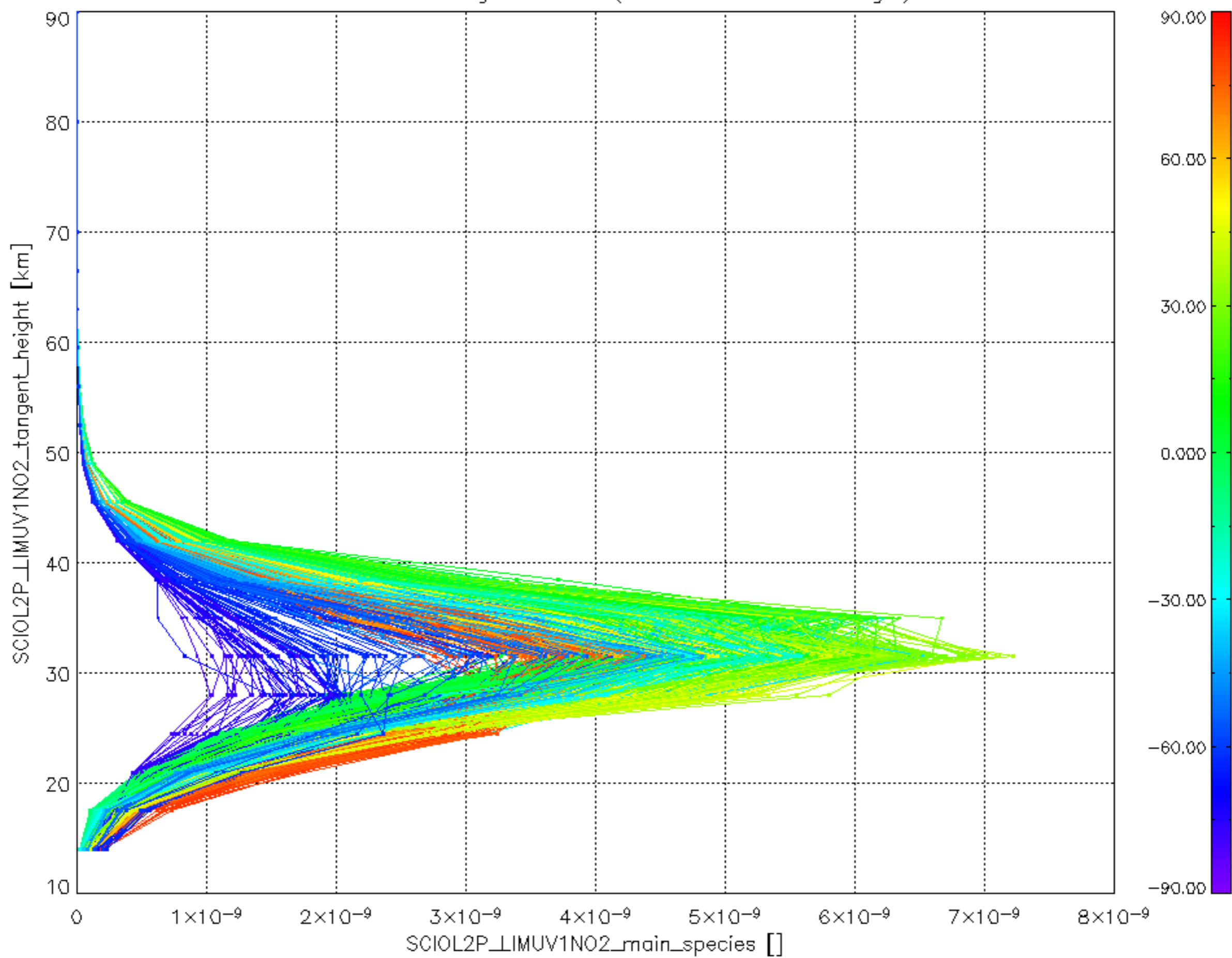
iCIOL2P\_NADUV1NO2\_amf\_cl for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



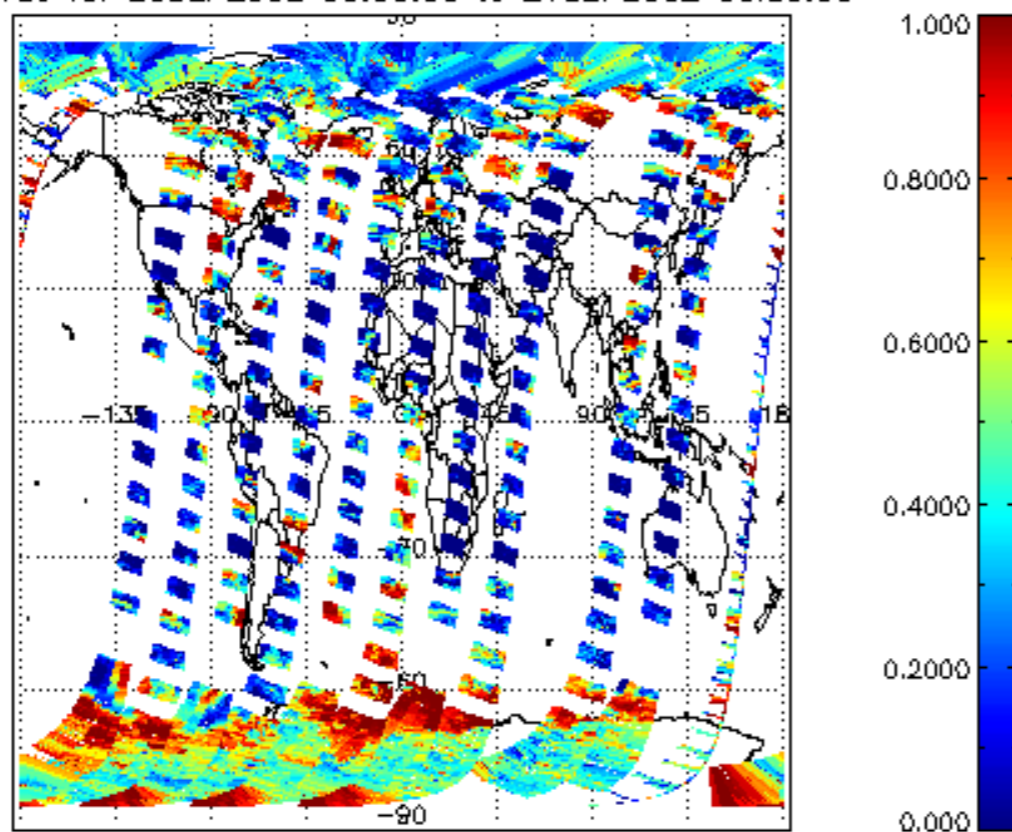
Plot of SCIOL2P\_LIMUV003\_main\_species.tang\_vmr vs. tangent height.  
 Colours indicate tangent latitude (see colour bar on the right).



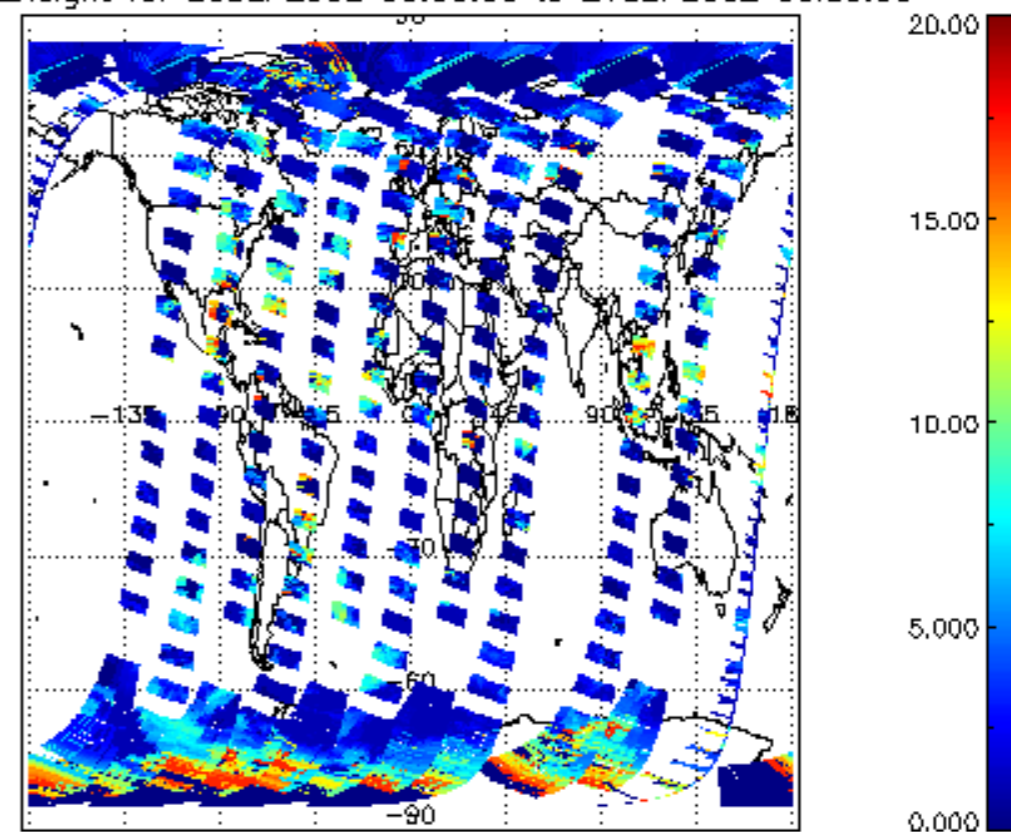
Plot of SCIOL2P\_LIMUV1NO2\_main\_species.tang\_vmr vs. tangent height.  
 Colours indicate tangent latitude (see colour bar on the right).



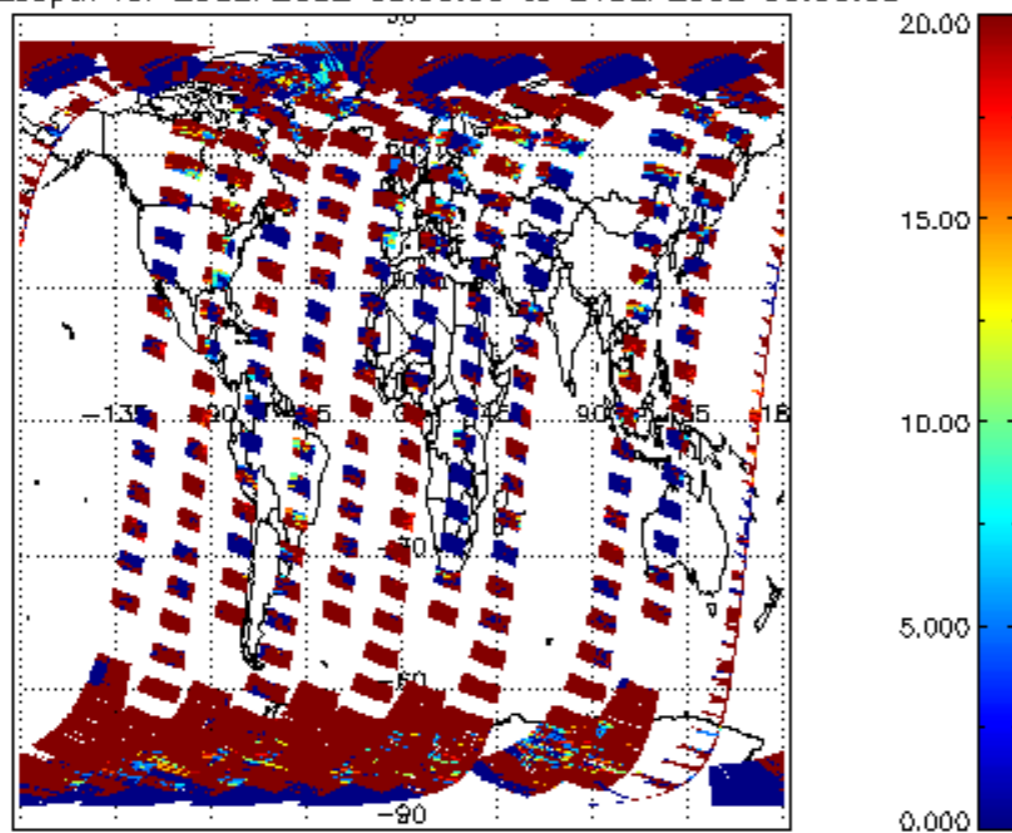
cl\_frac for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



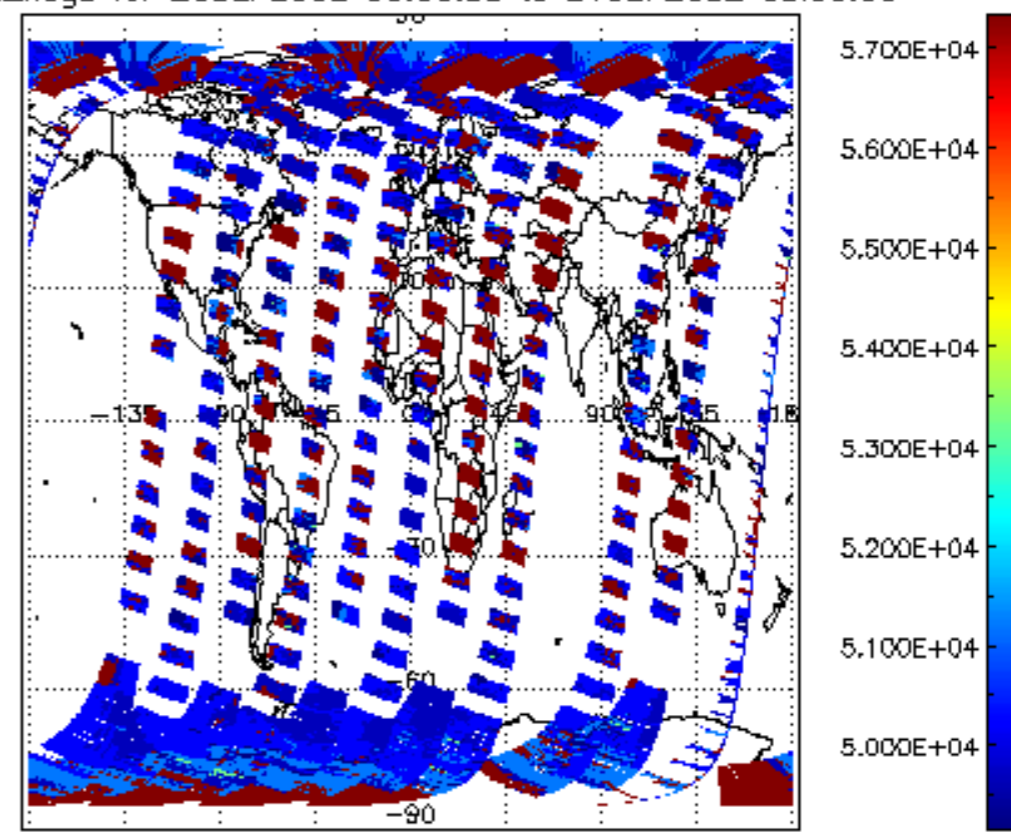
cl\_top\_height for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

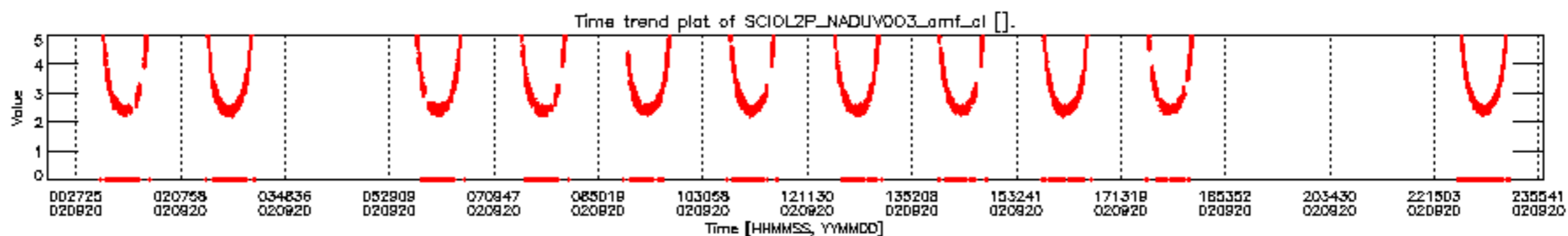
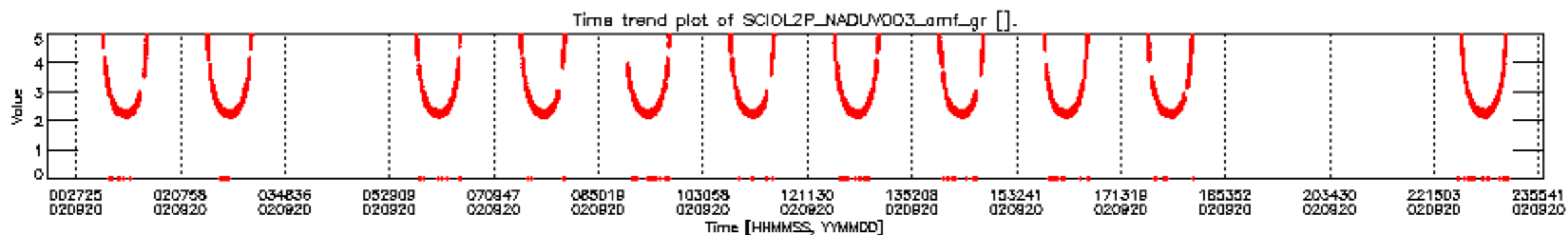
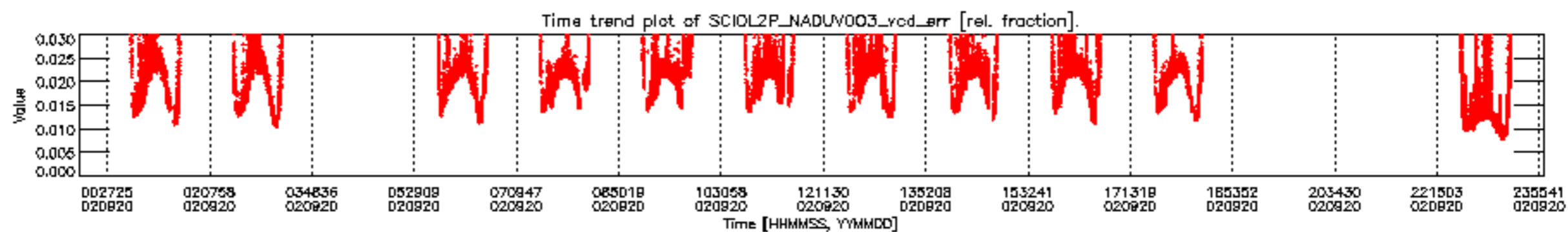
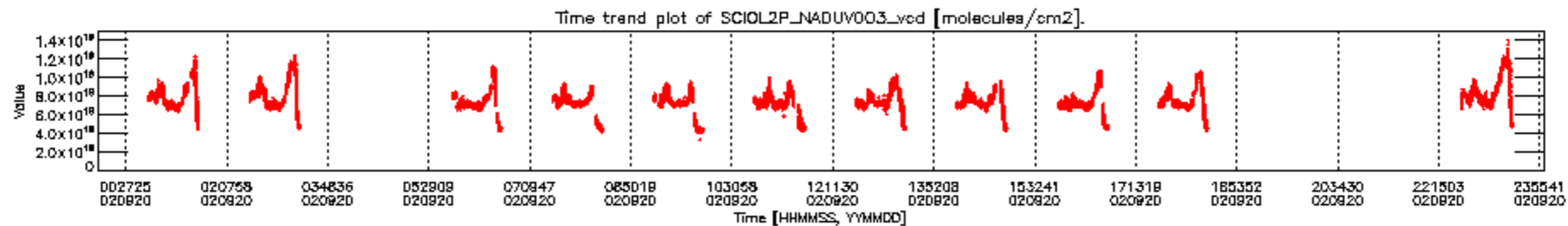


cl\_opt\_depth for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

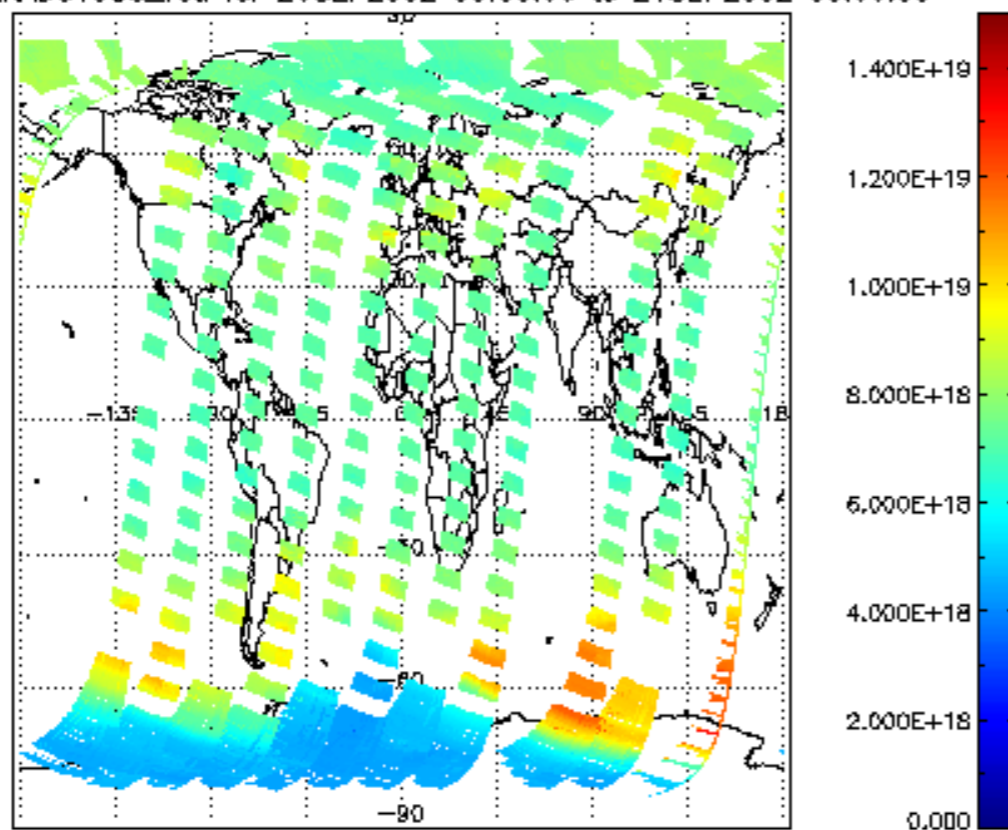


cloud\_flags for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

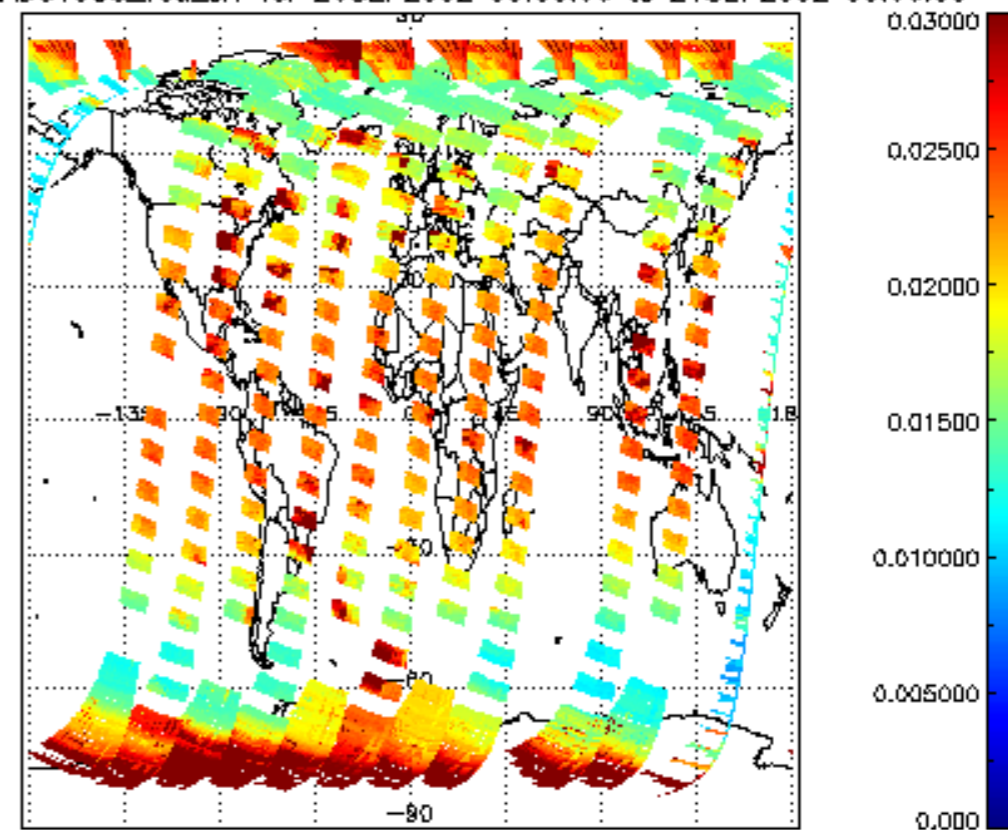




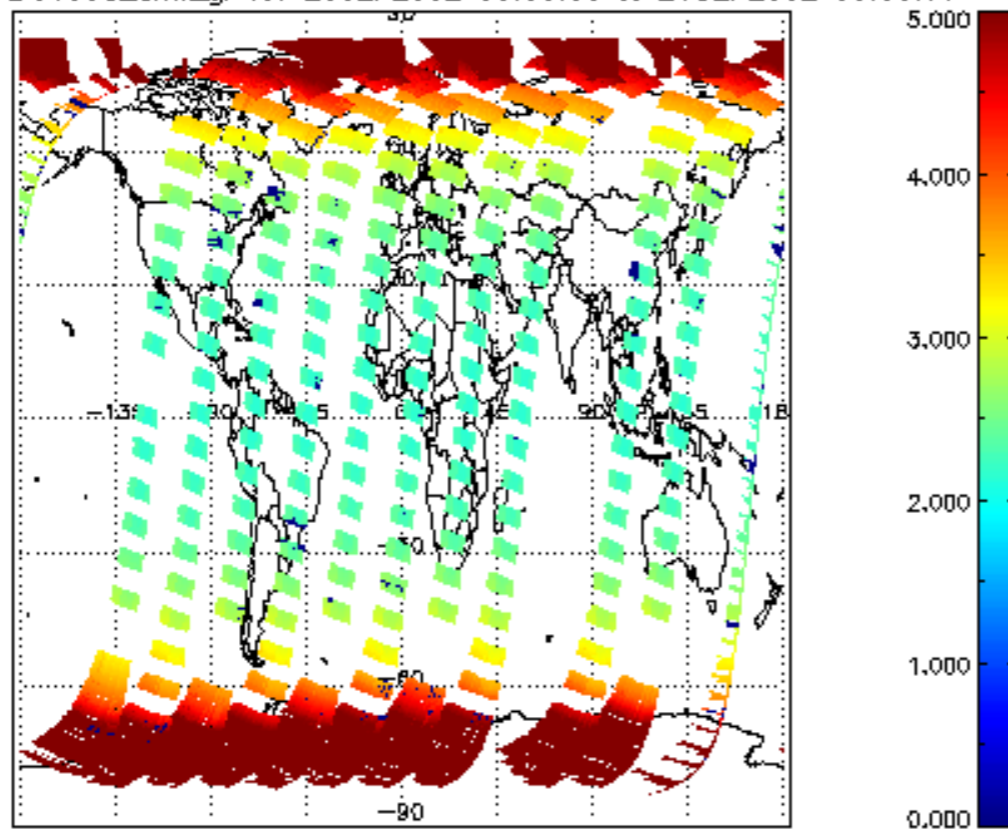
SCIOL2P\_NADUV003\_vcd for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



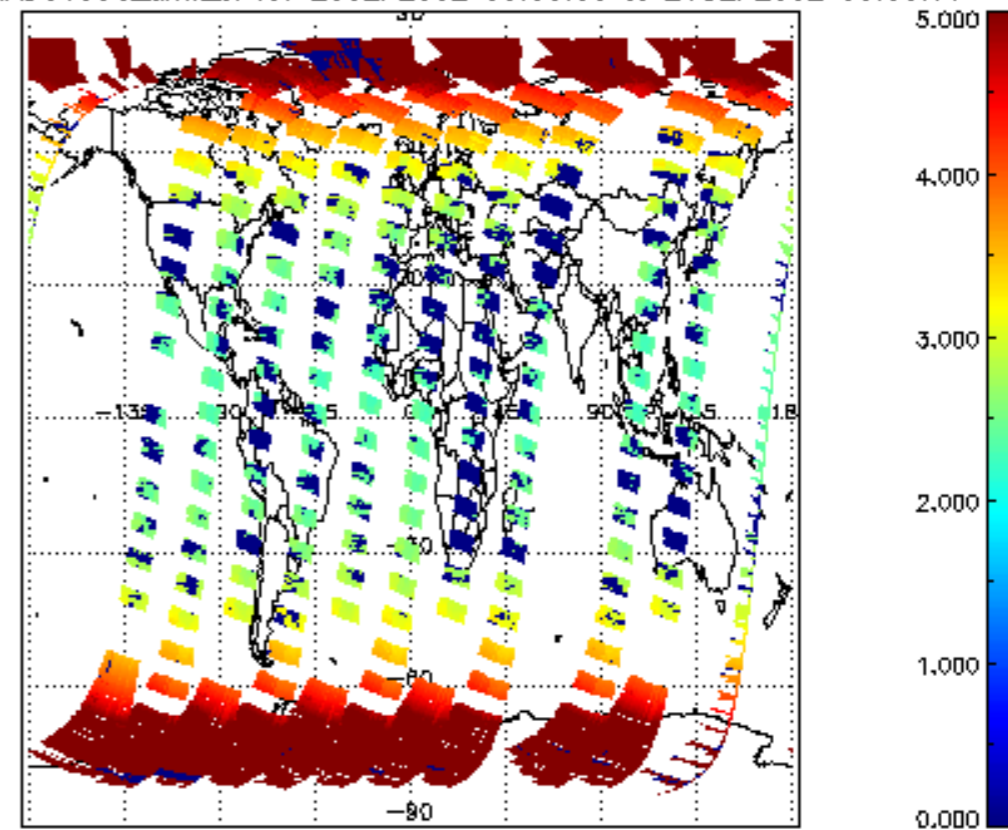
SCIOL2P\_NADUV003\_vcd\_err for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



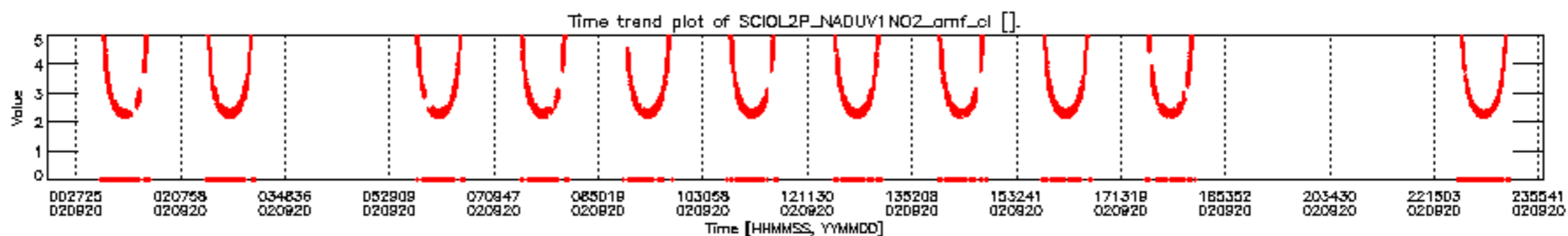
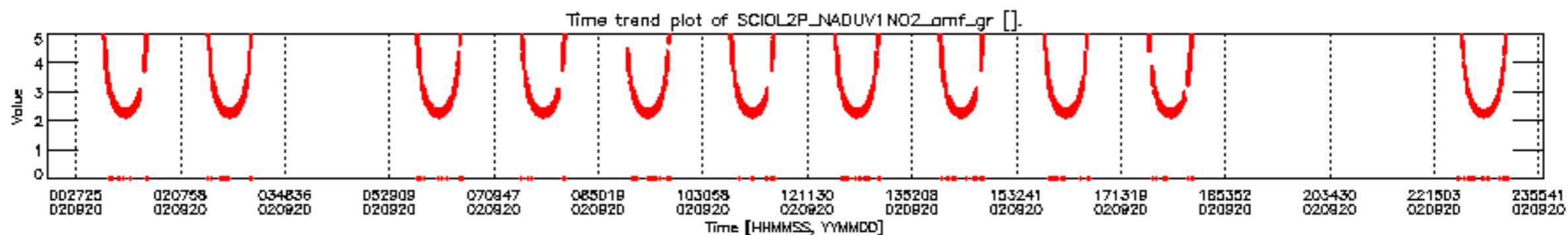
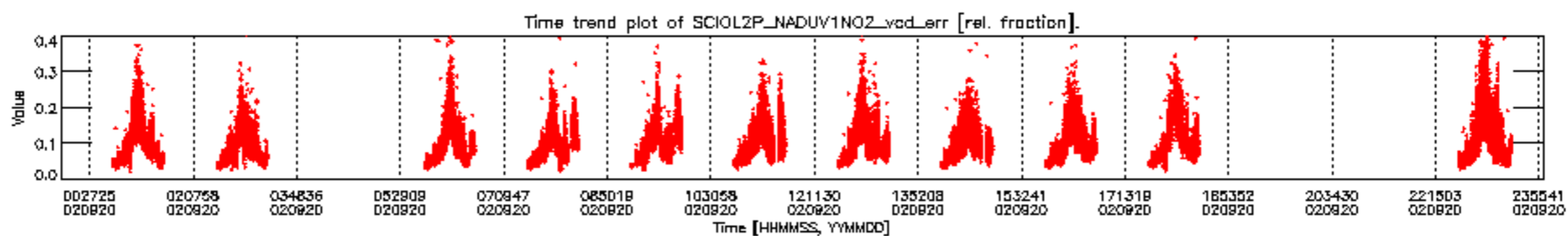
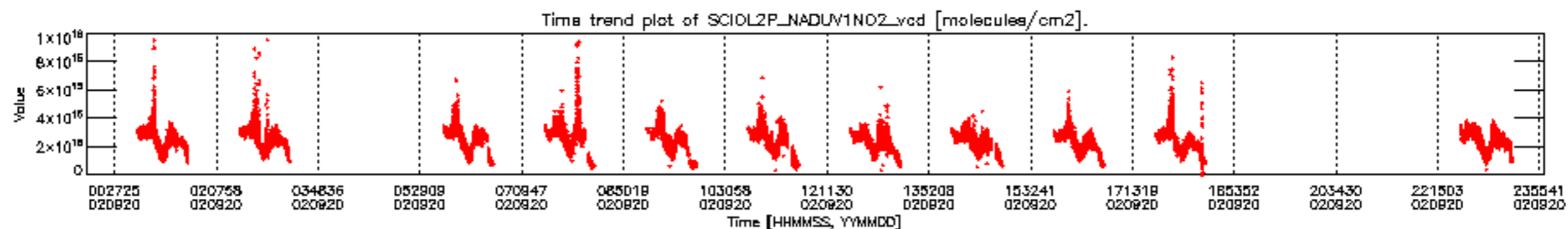
SCIOL2P\_NADUV003\_amf\_gr for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



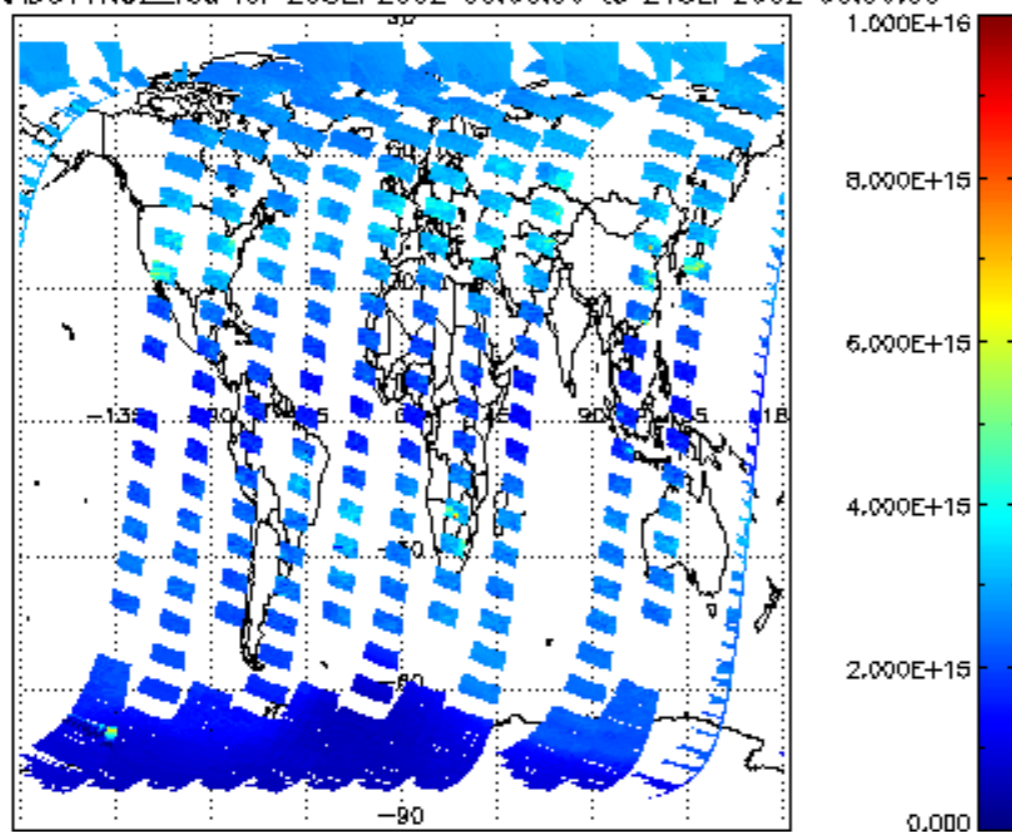
SCIOL2P\_NADUV003\_amf\_cl for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



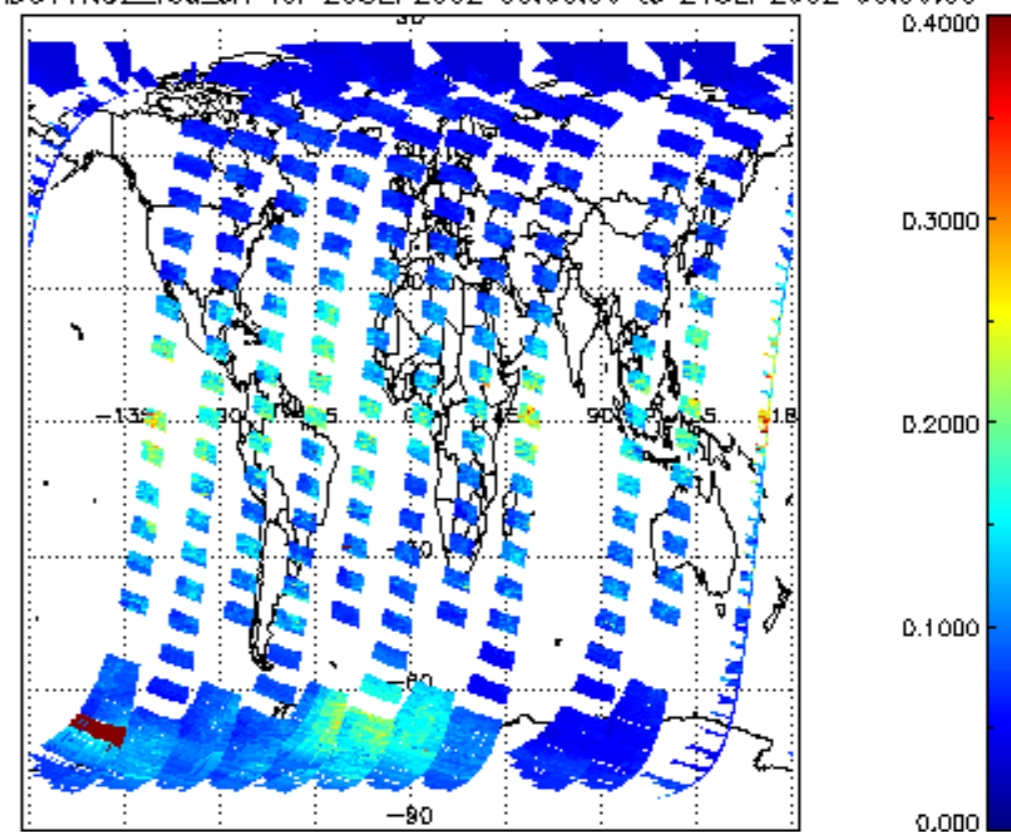




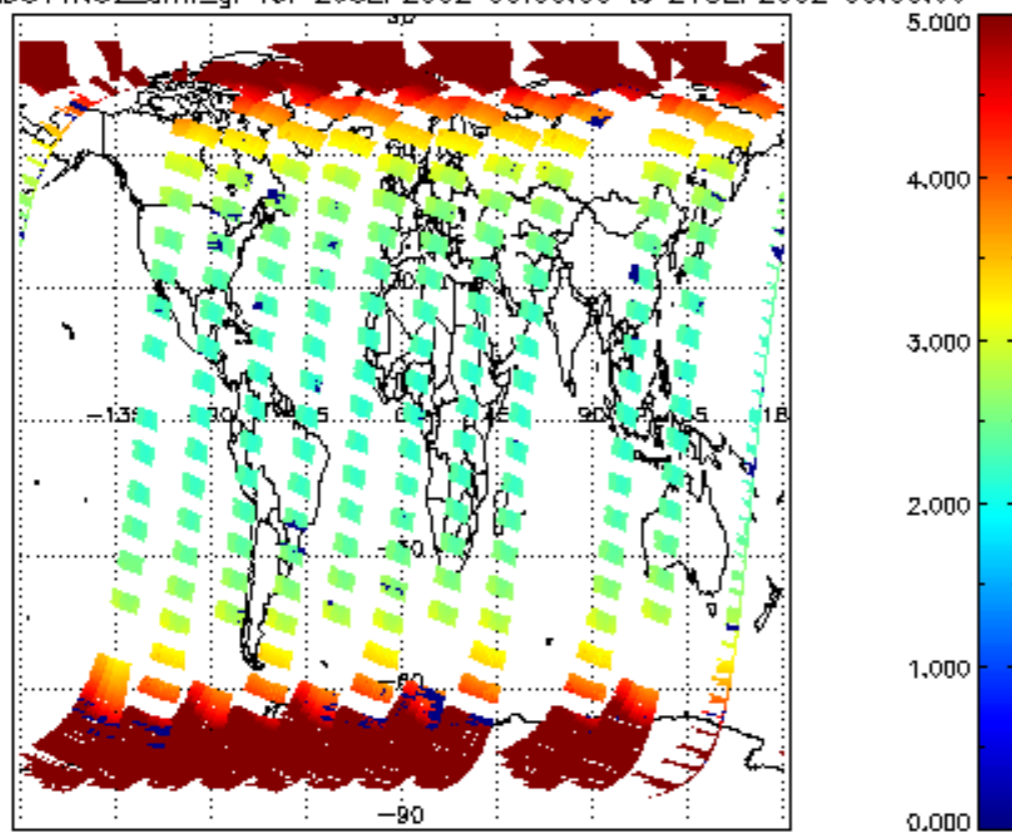
SCIOL2P\_NADUV1N02\_vcd for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



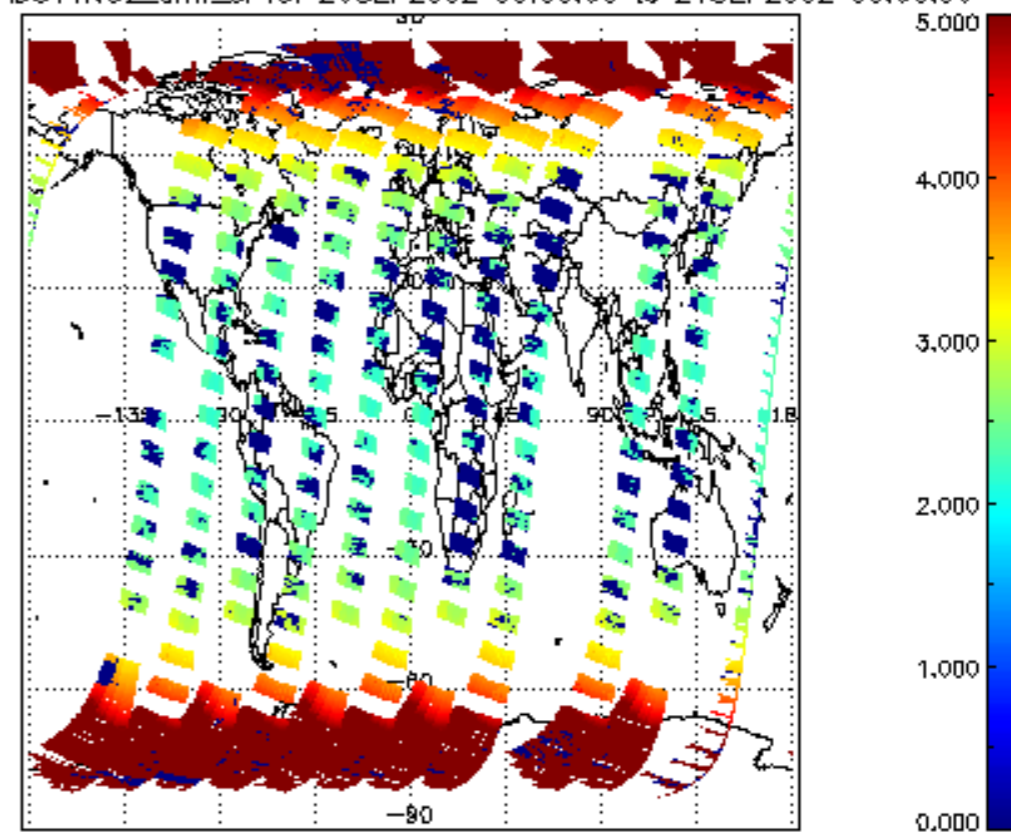
SCIOL2P\_NADUV1N02\_vcd\_err for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

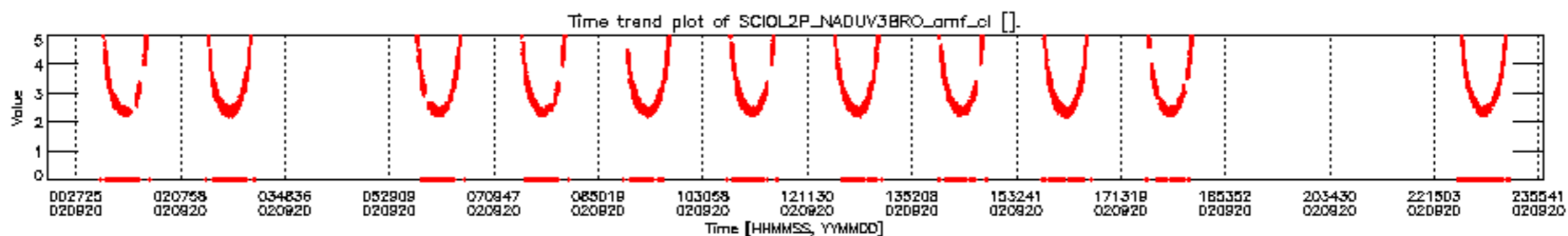
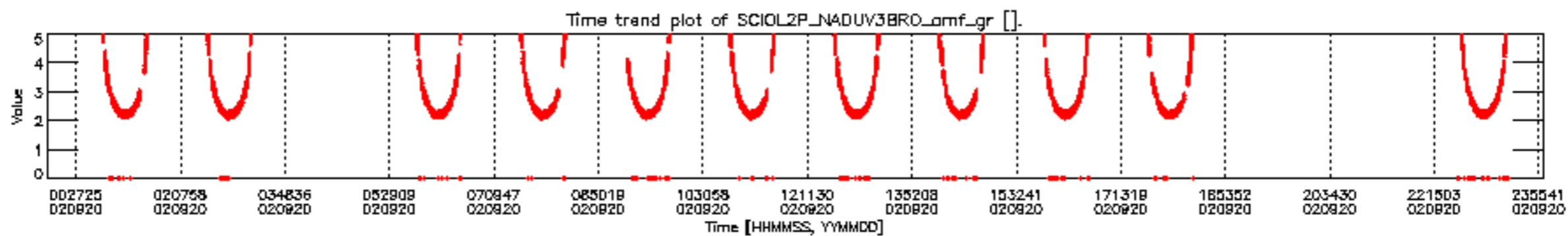
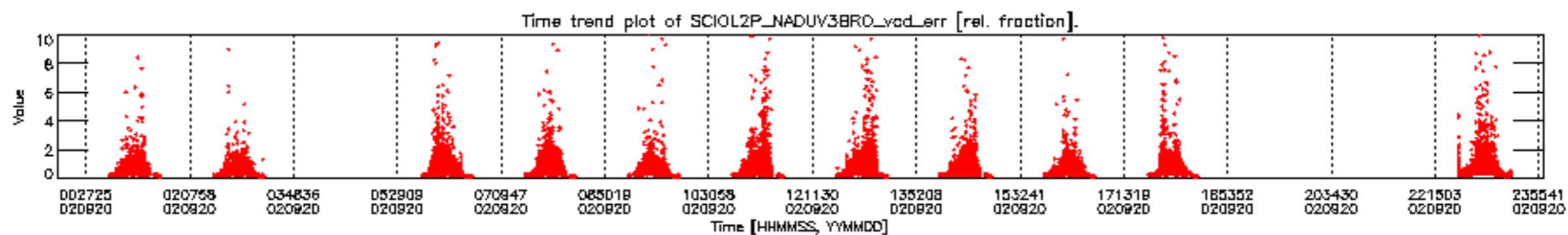
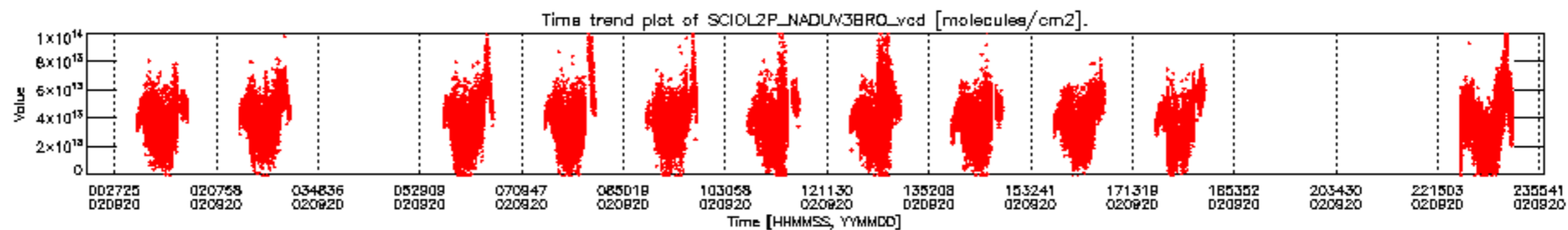


SCIOL2P\_NADUV1N02\_amf\_gr for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

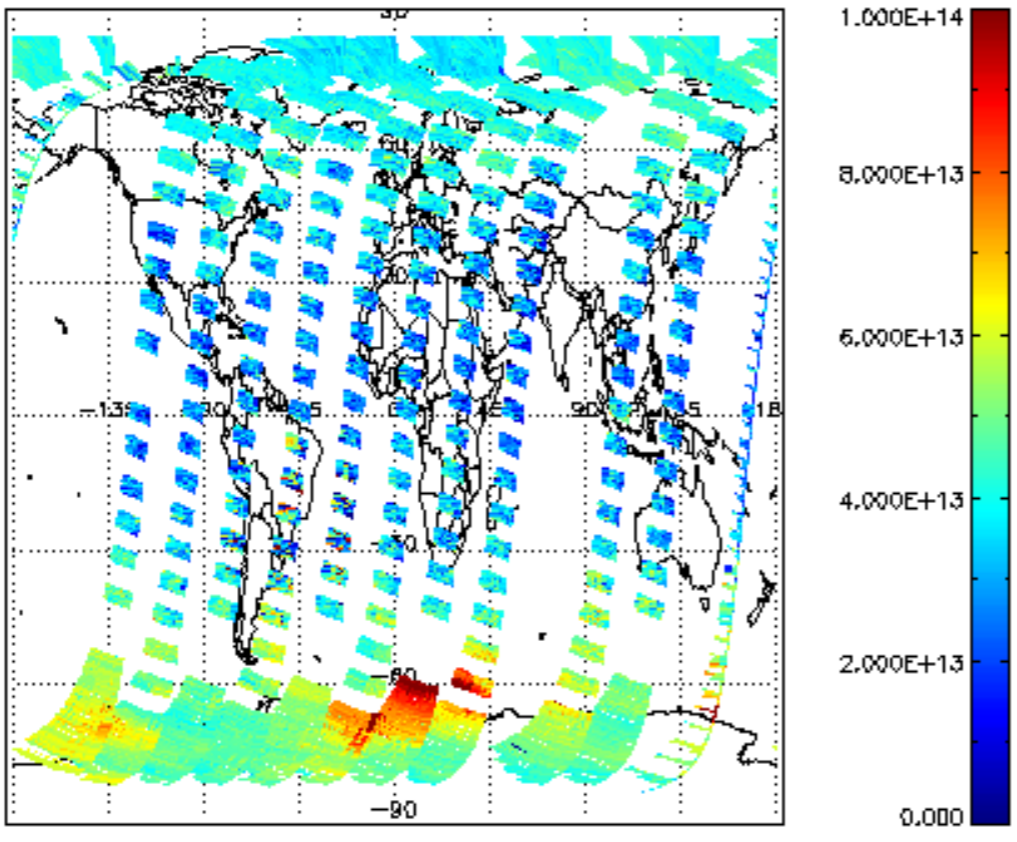


SCIOL2P\_NADUV1N02\_amf\_sl for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

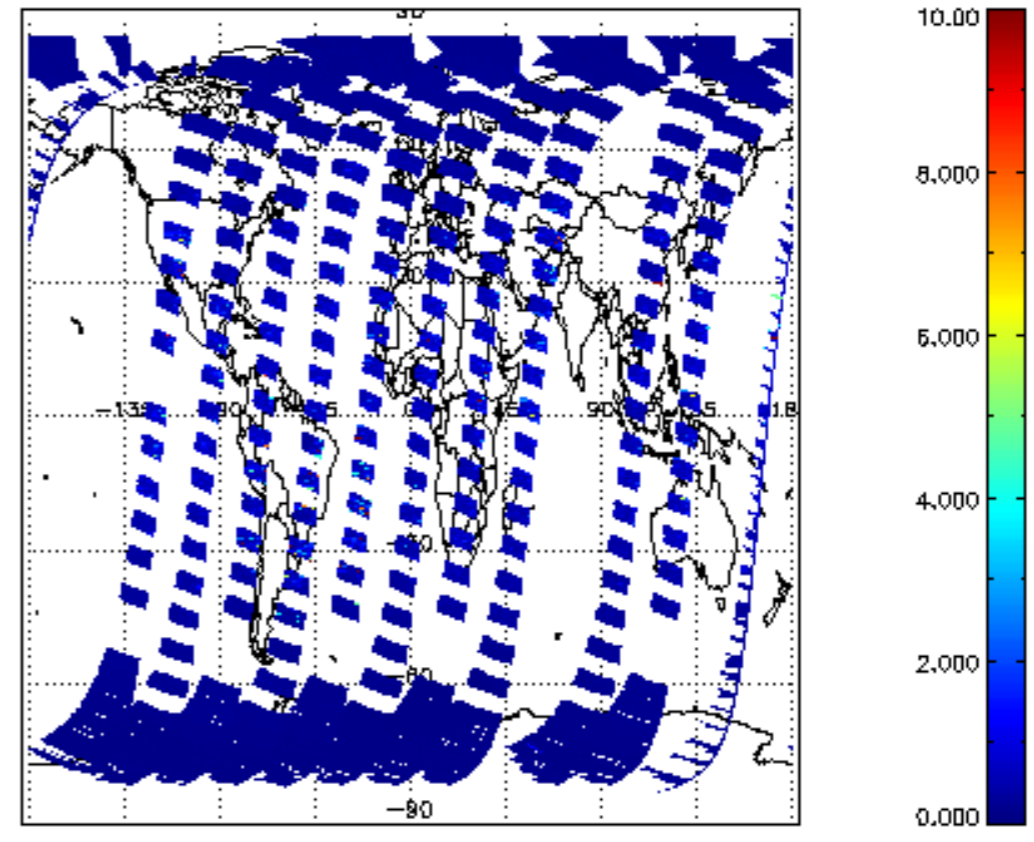




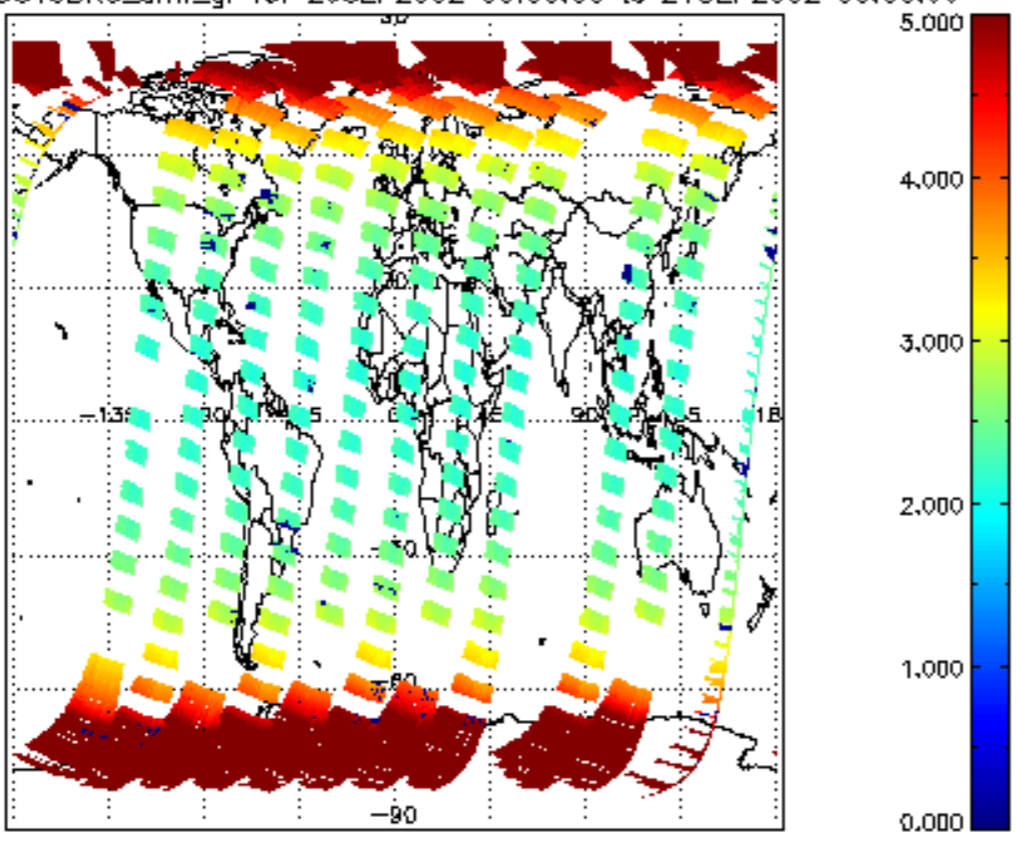
SCIOL2P\_NADUV3BRO\_vcd for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



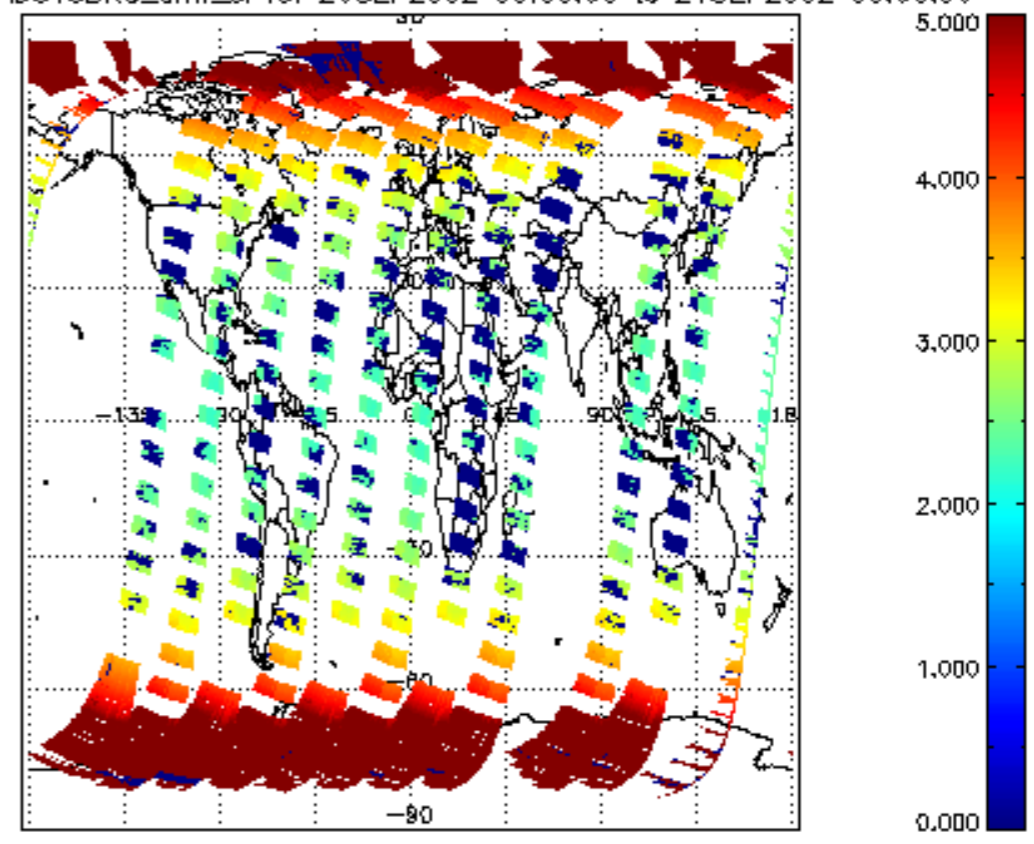
SCIOL2P\_NADUV3BRO\_vcd\_err for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

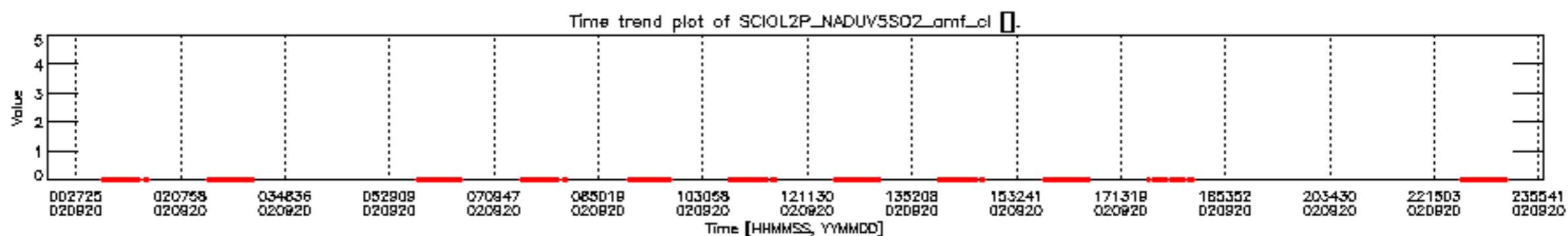
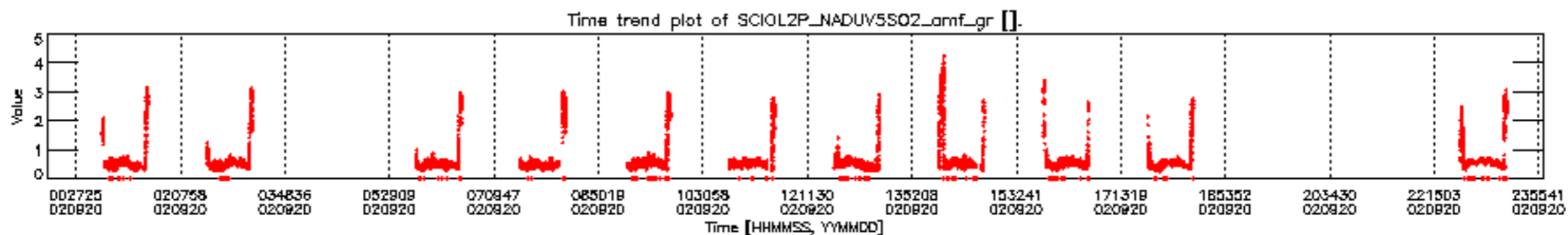
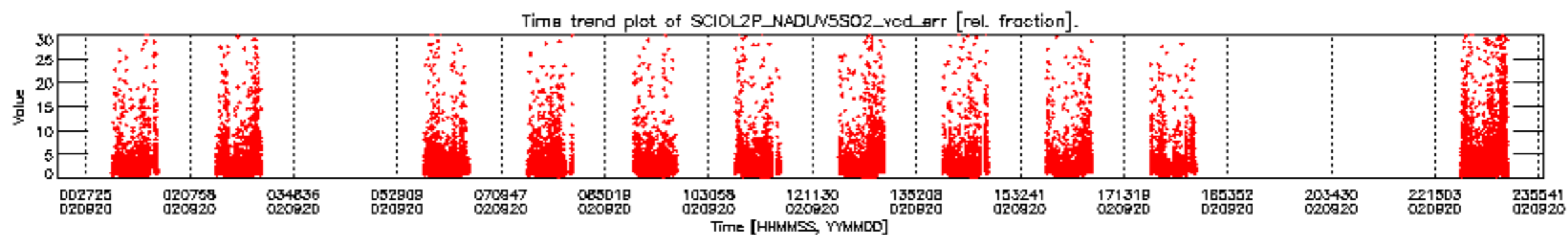
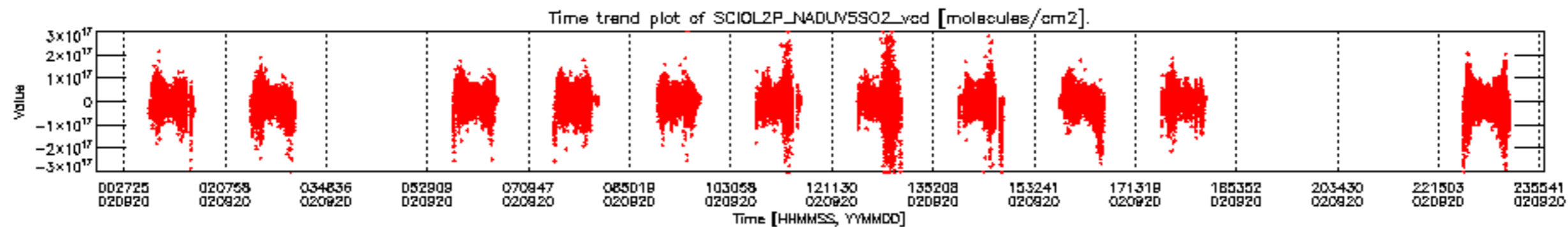


SCIOL2P\_NADUV3BRO\_amf\_gr for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

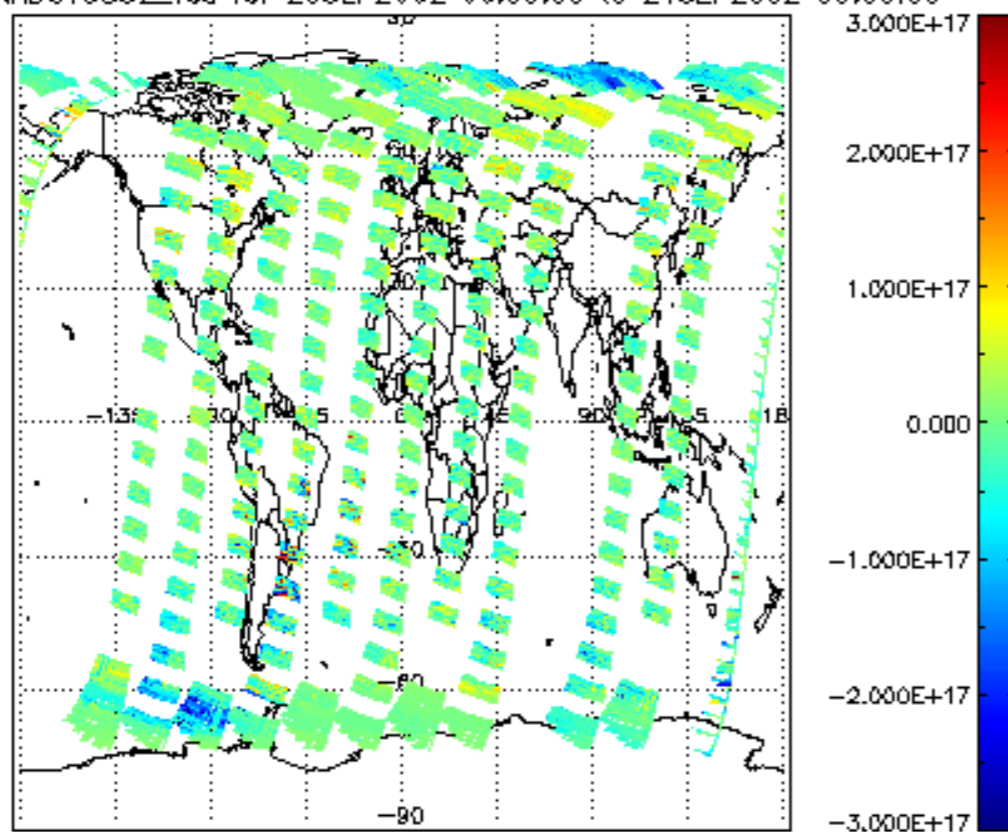


SCIOL2P\_NADUV3BRO\_amf\_sl for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

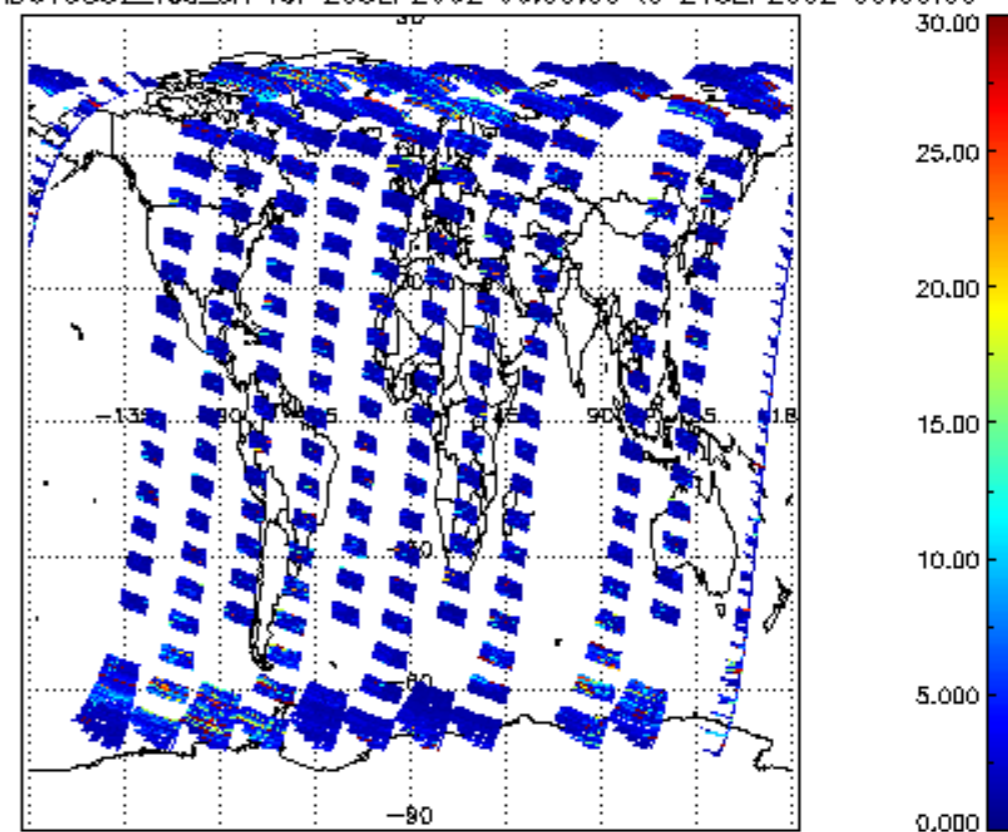




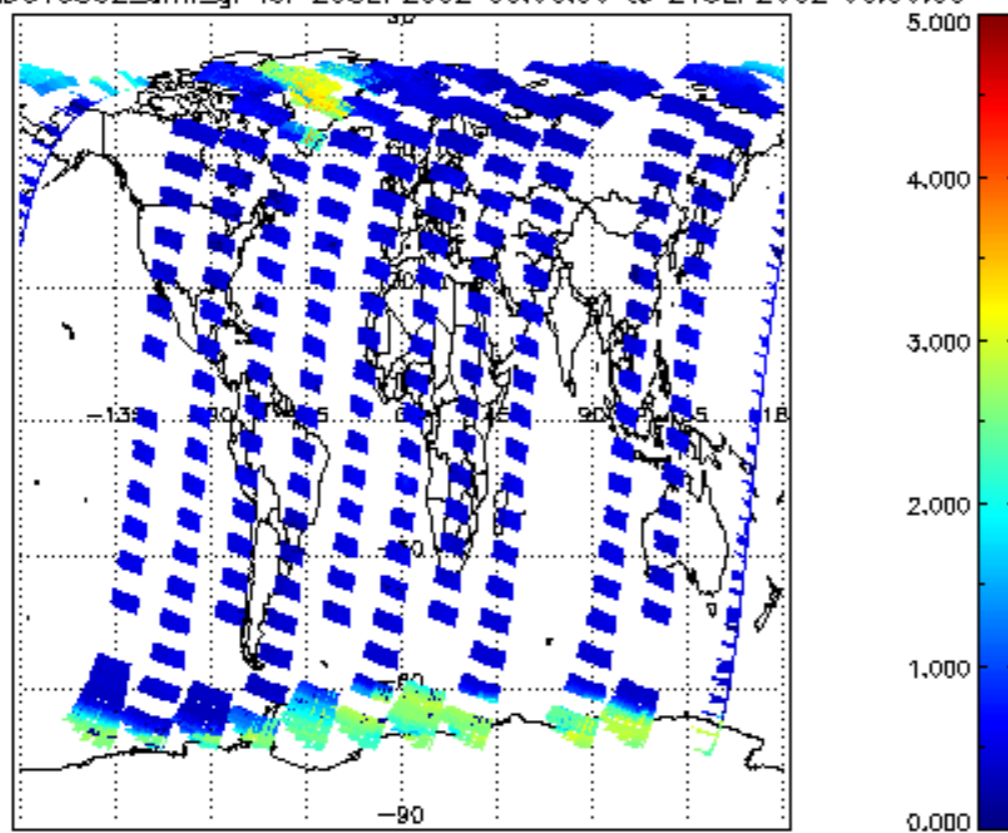
SCIOL2P\_NADUV5S02\_vcd for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



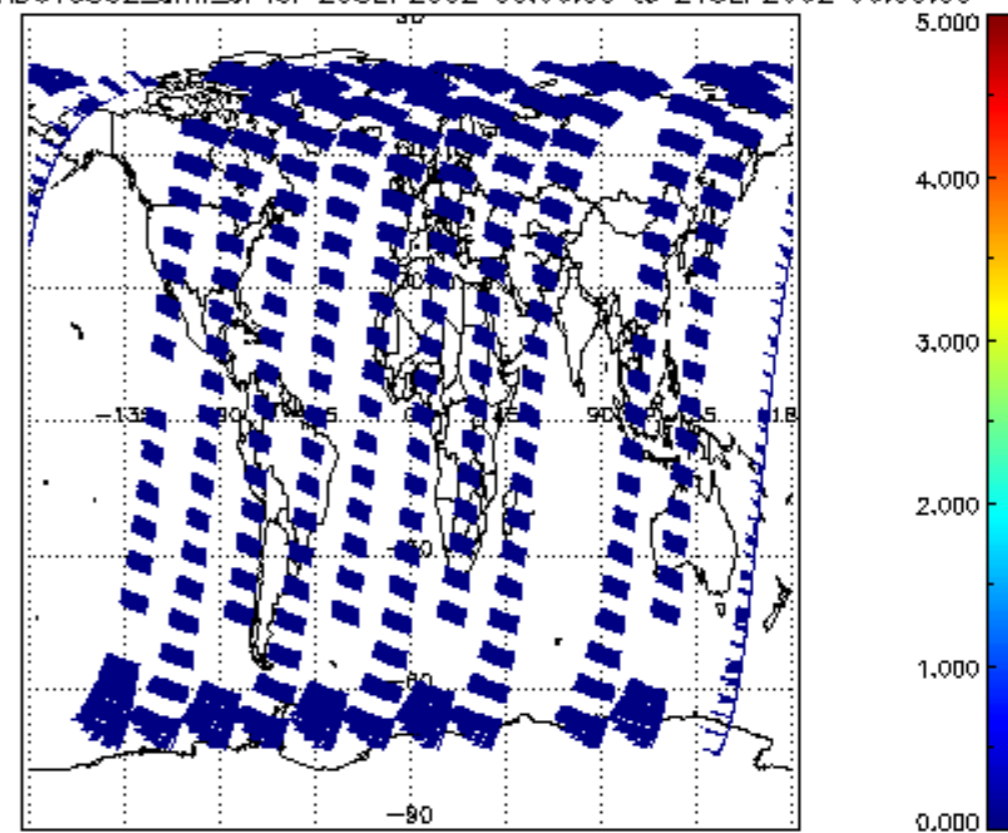
SCIOL2P\_NADUV5S02\_vcd\_err for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

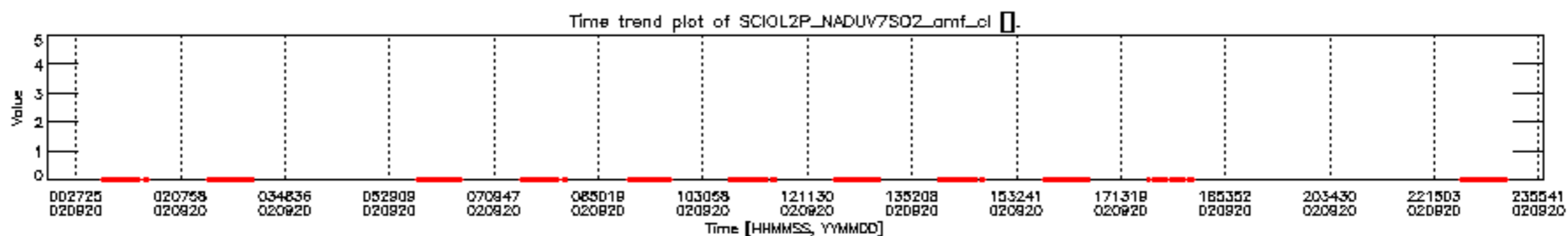
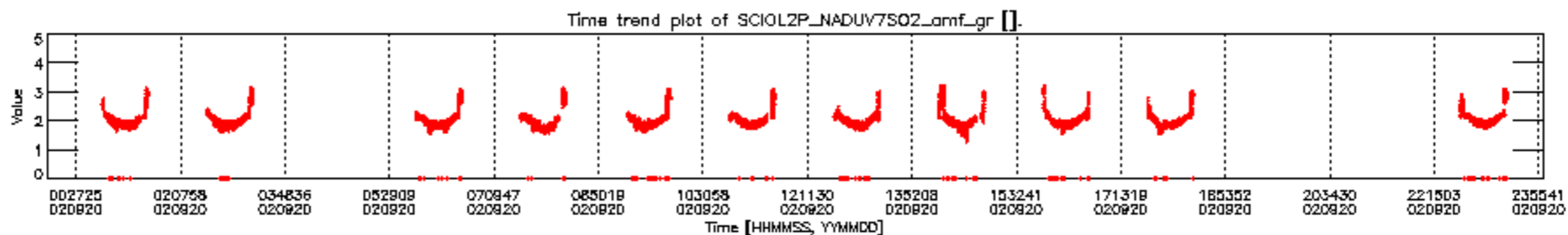
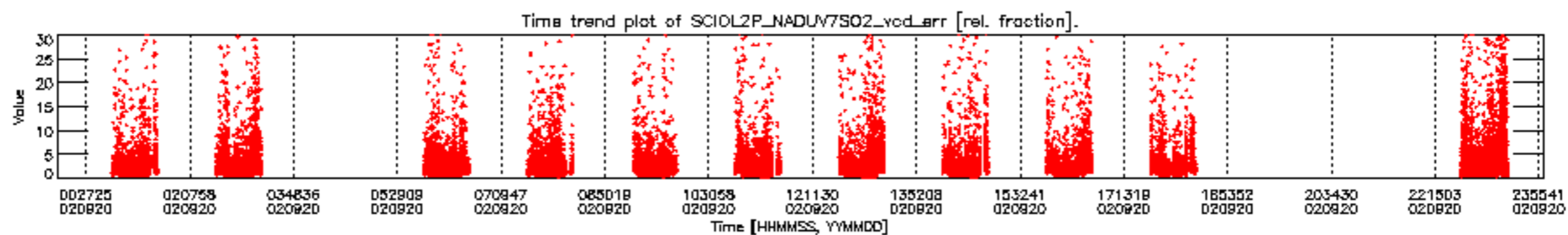
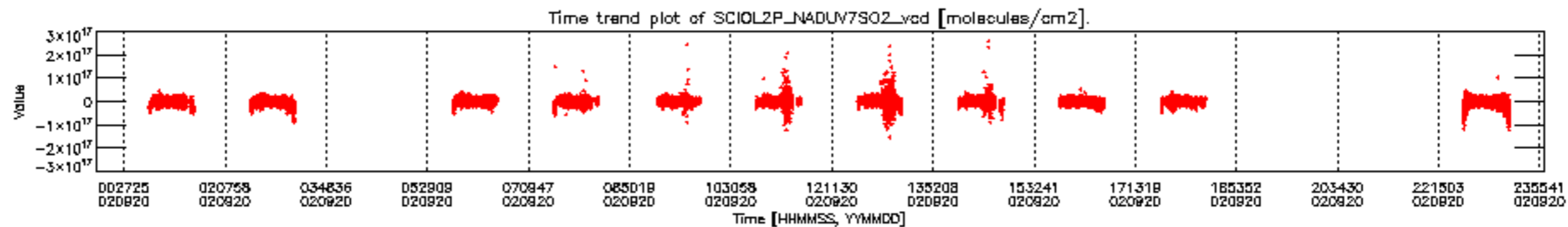


SCIOL2P\_NADUV5S02\_amf\_gr for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

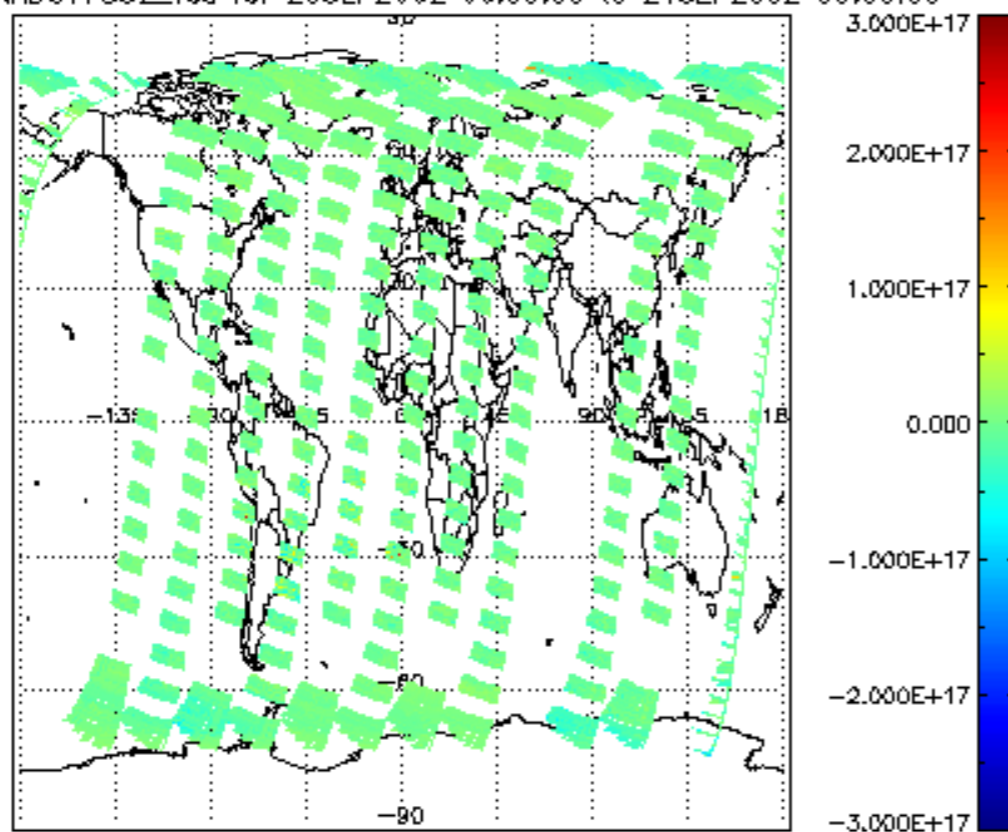


SCIOL2P\_NADUV5S02\_amf\_cl for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

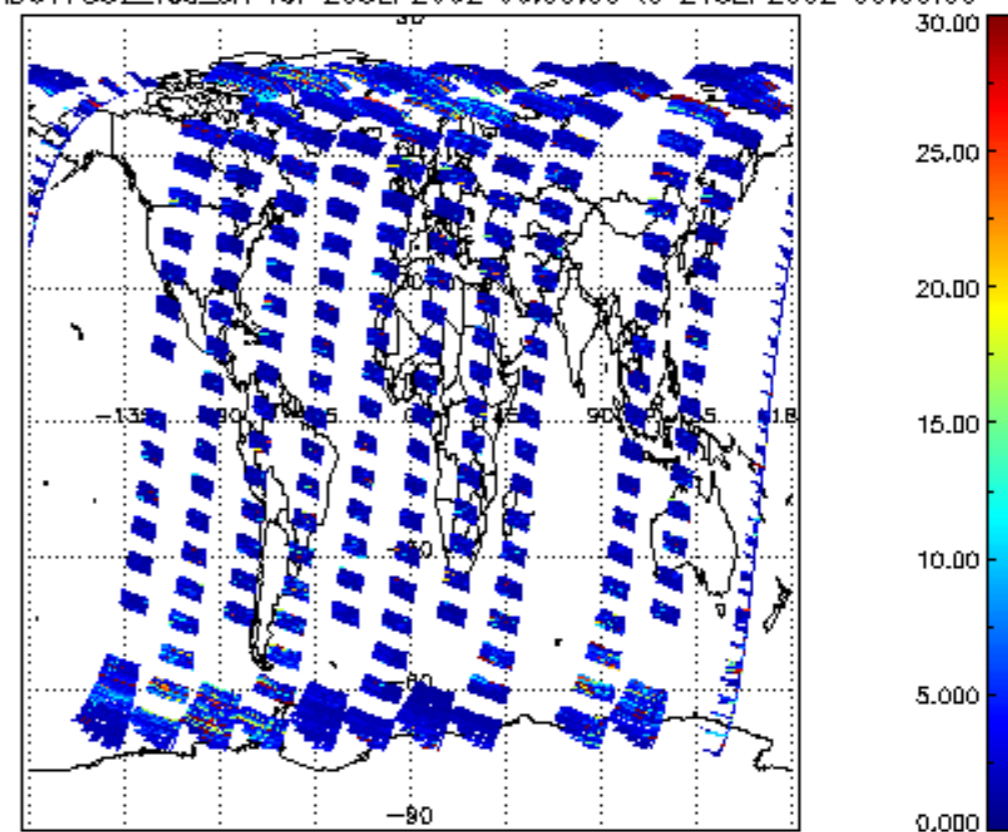




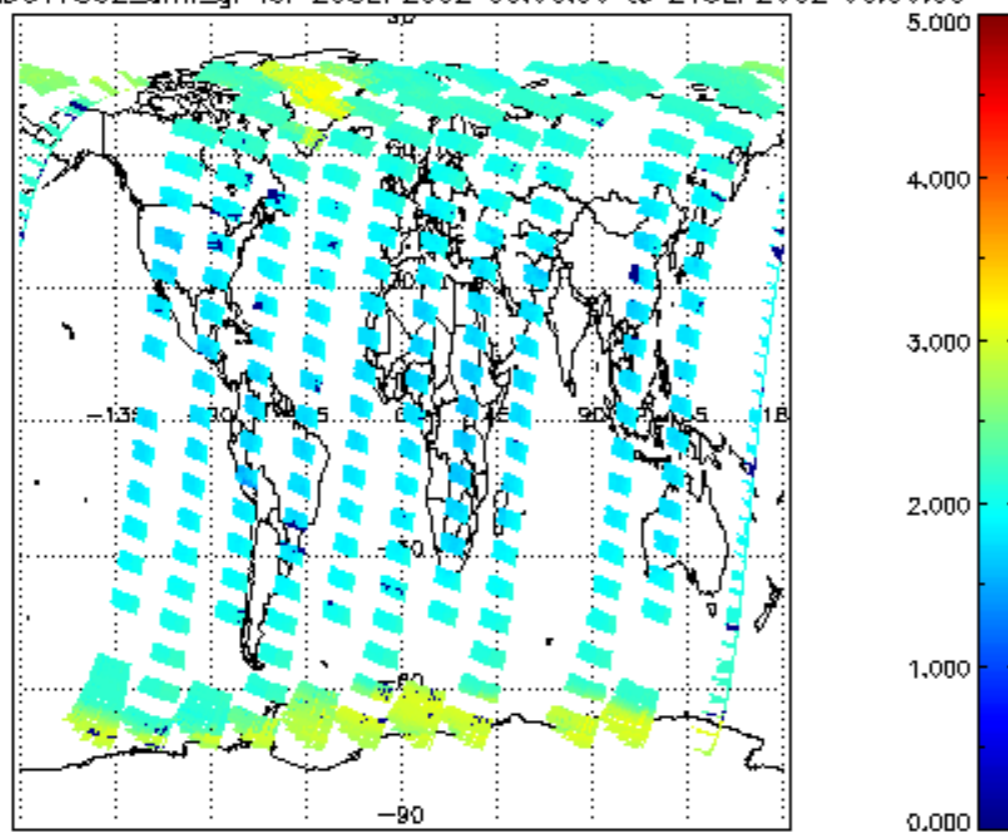
SCIOL2P\_NADUV7S02\_vcd for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



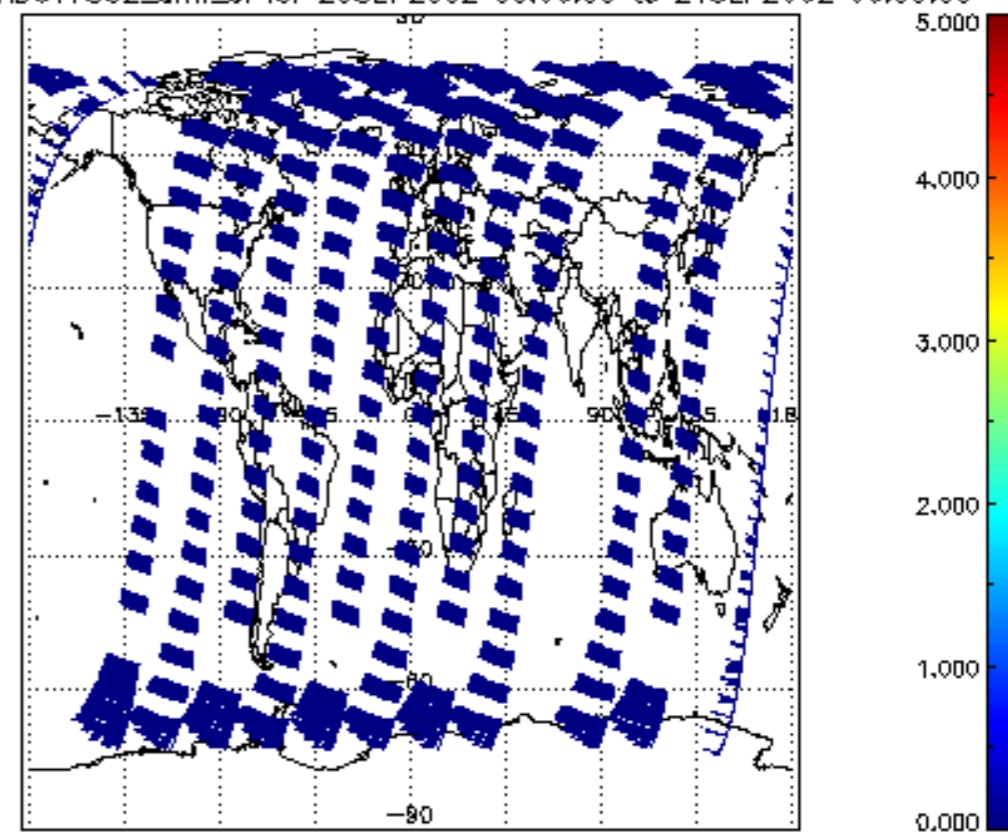
SCIOL2P\_NADUV7S02\_vcd\_err for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



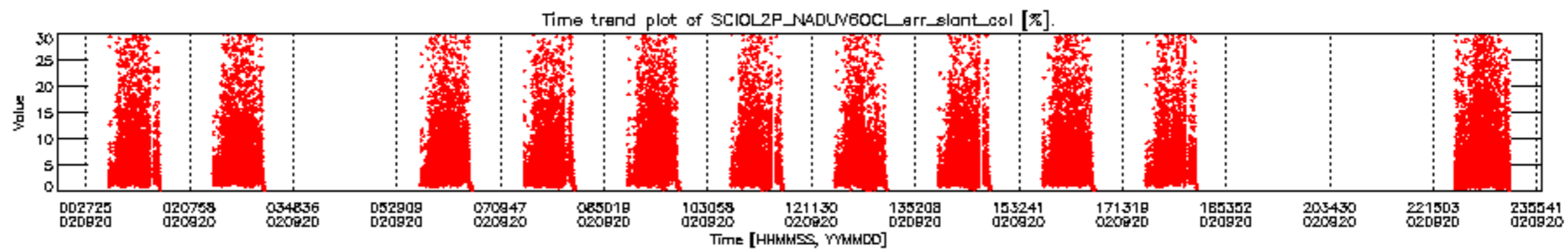
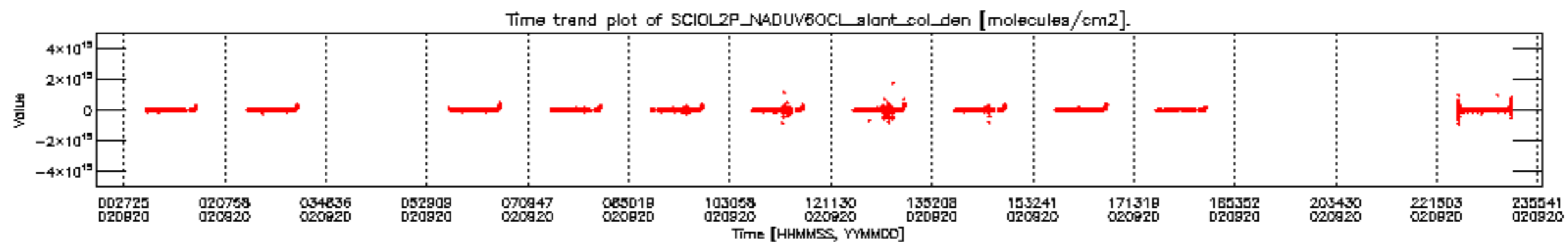
SCIOL2P\_NADUV7S02\_amf\_gr for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



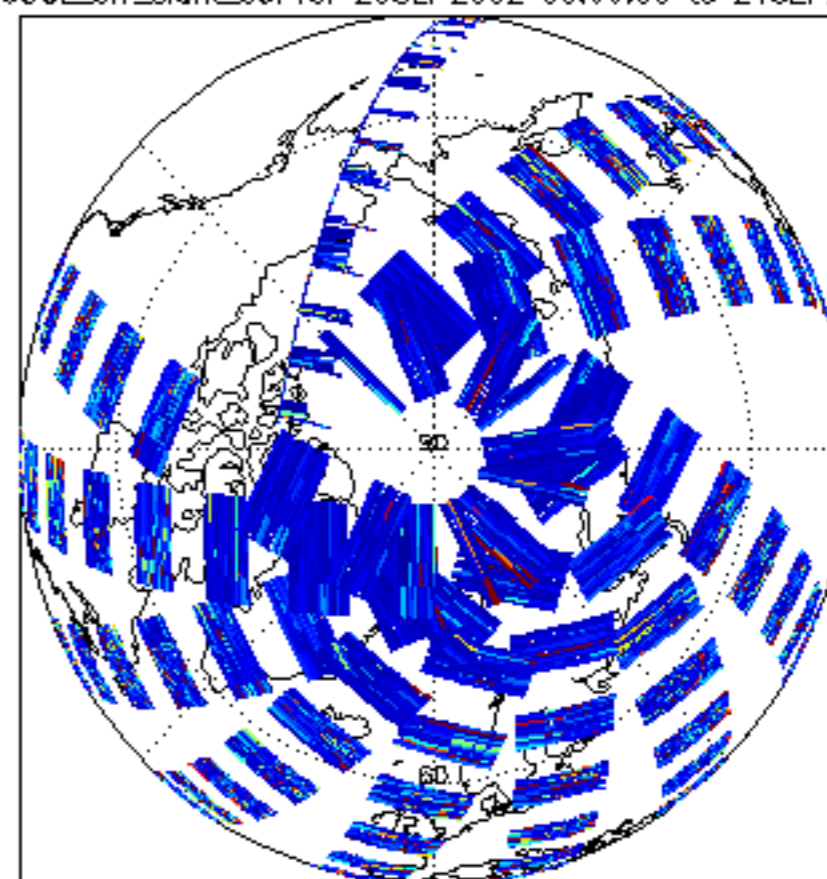
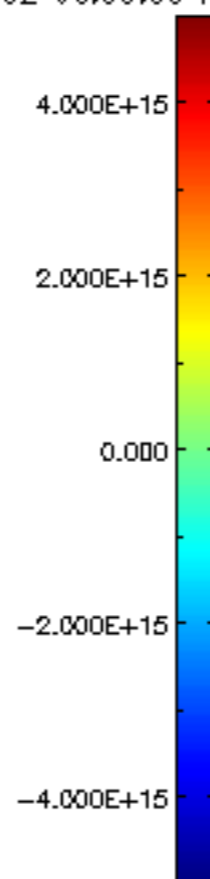
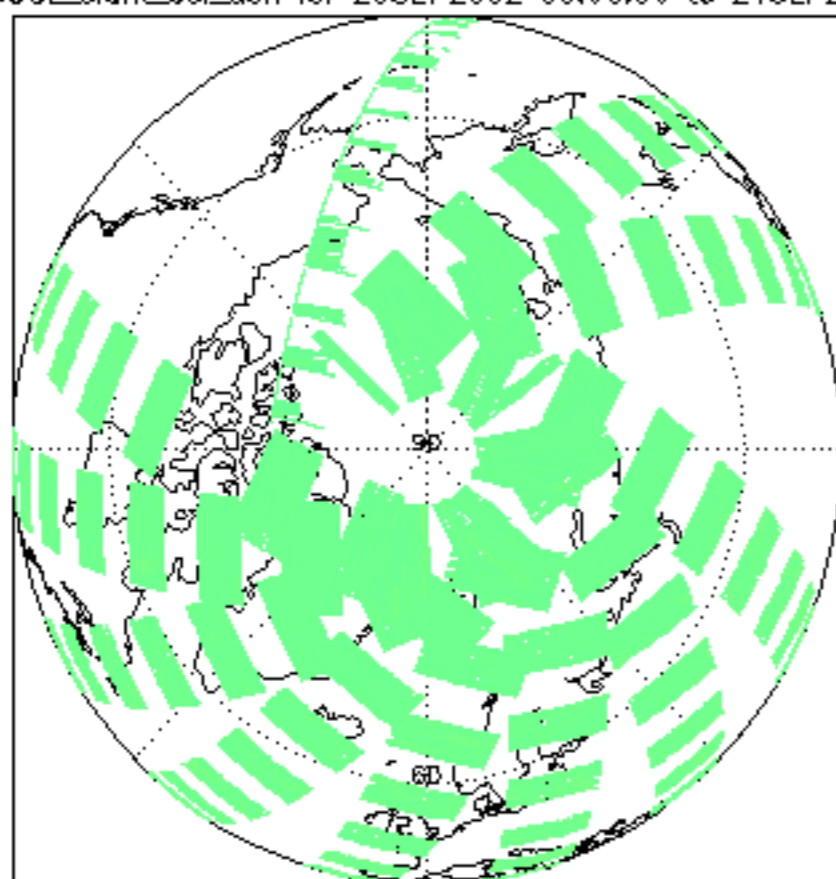
SCIOL2P\_NADUV7S02\_amf\_cl for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



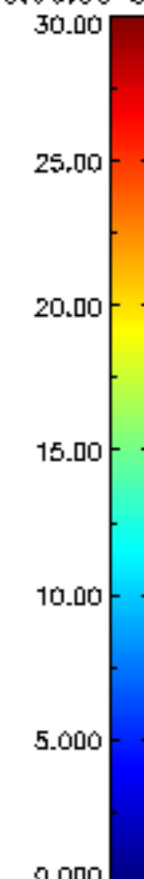
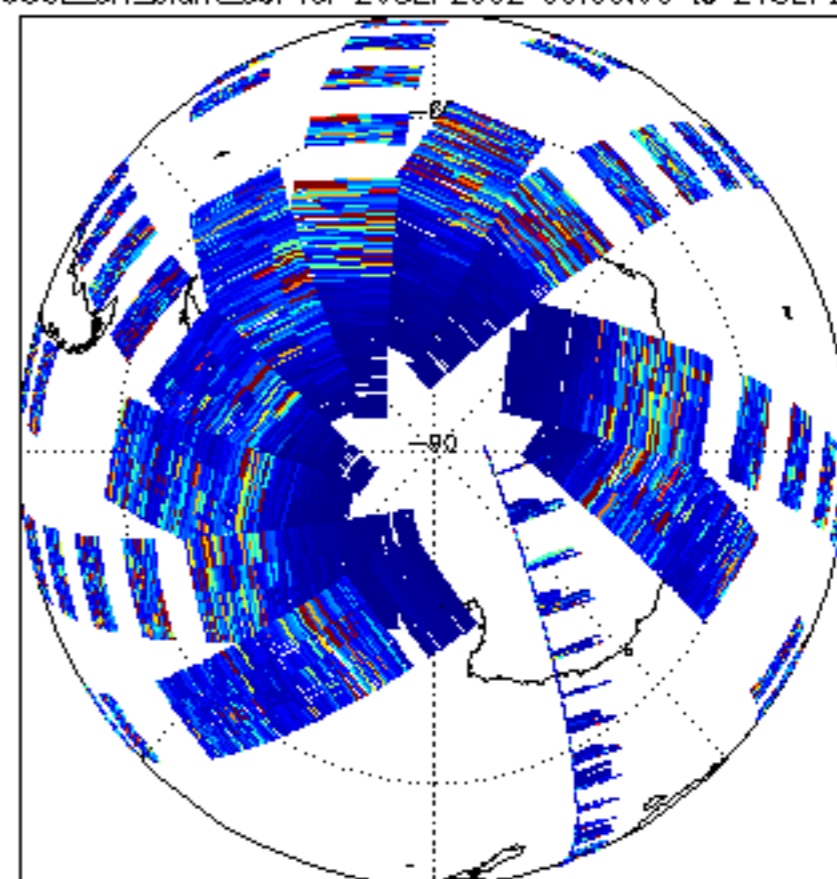
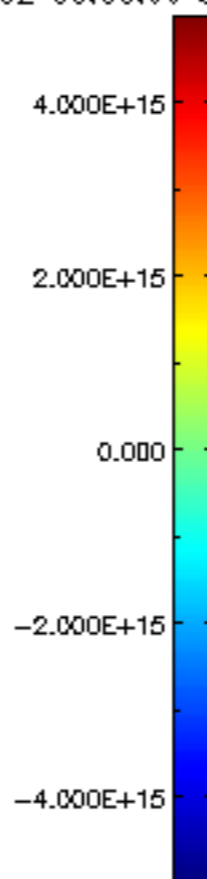
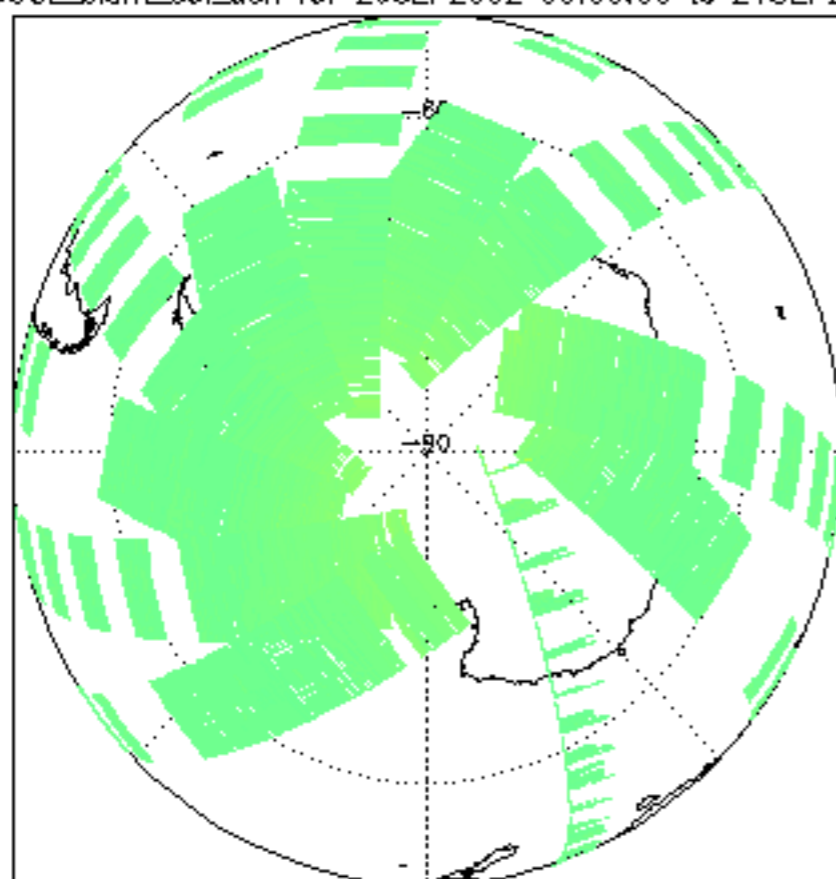


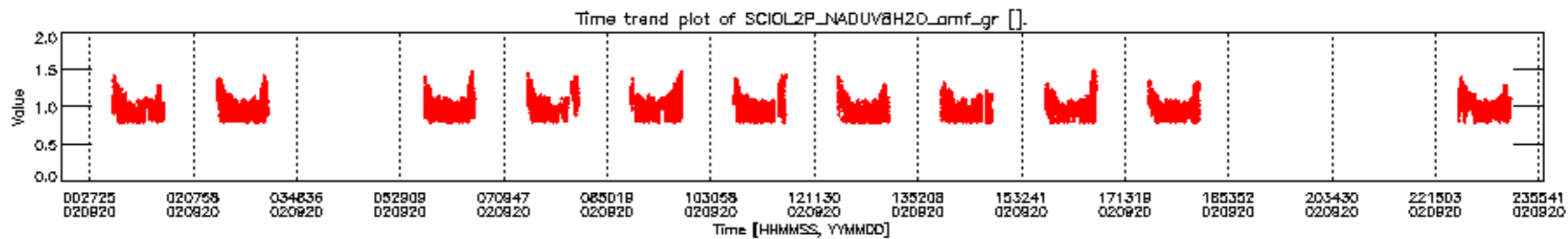
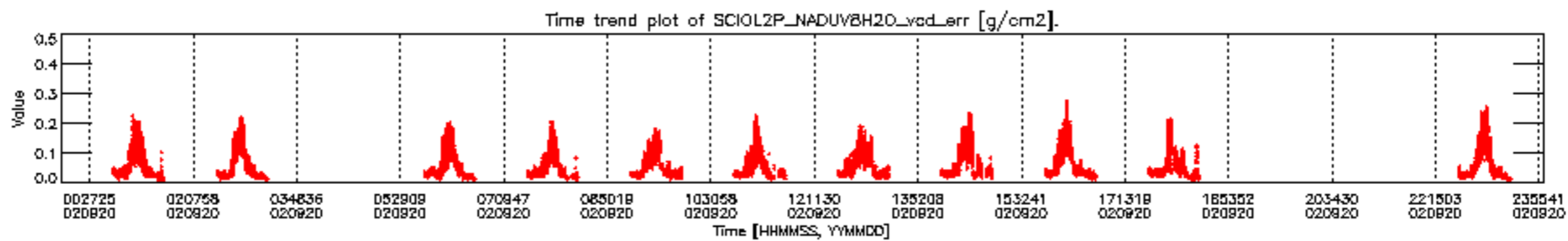
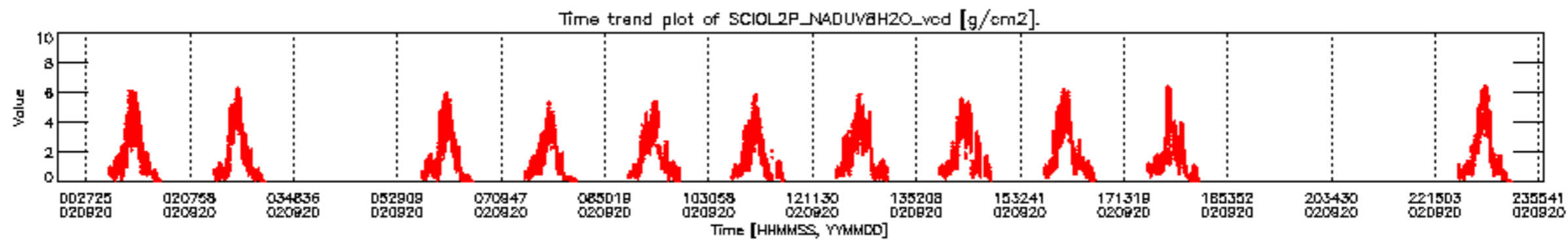


CIOL2P\_NADUV60CL\_slant\_col\_den for 20SEP2002 00:00:00 to 21SEP2002 00:00:00 np iCIOL2P\_NADUV60CL\_err\_slant\_col for 20SEP2002 00:00:00 to 21SEP2002 00:00:00 np

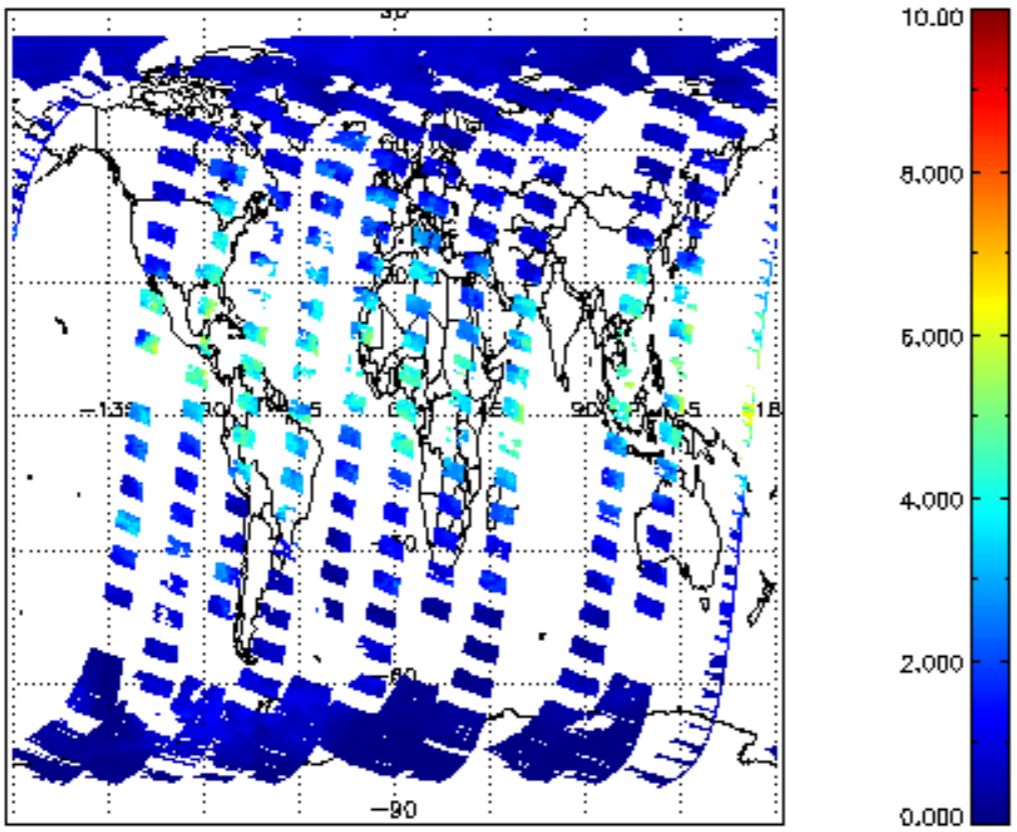


CIOL2P\_NADUV60CL\_slant\_col\_den for 20SEP2002 00:00:00 to 21SEP2002 00:00:00 sp iCIOL2P\_NADUV60CL\_err\_slant\_col for 20SEP2002 00:00:00 to 21SEP2002 00:00:00 sp

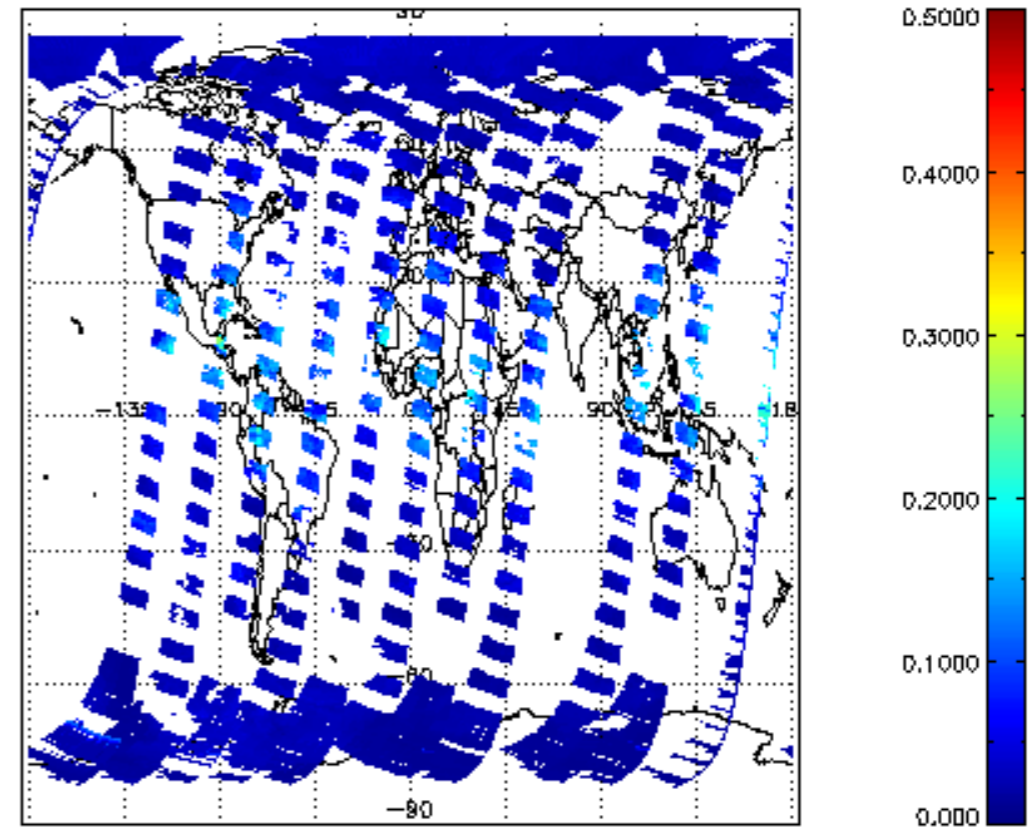




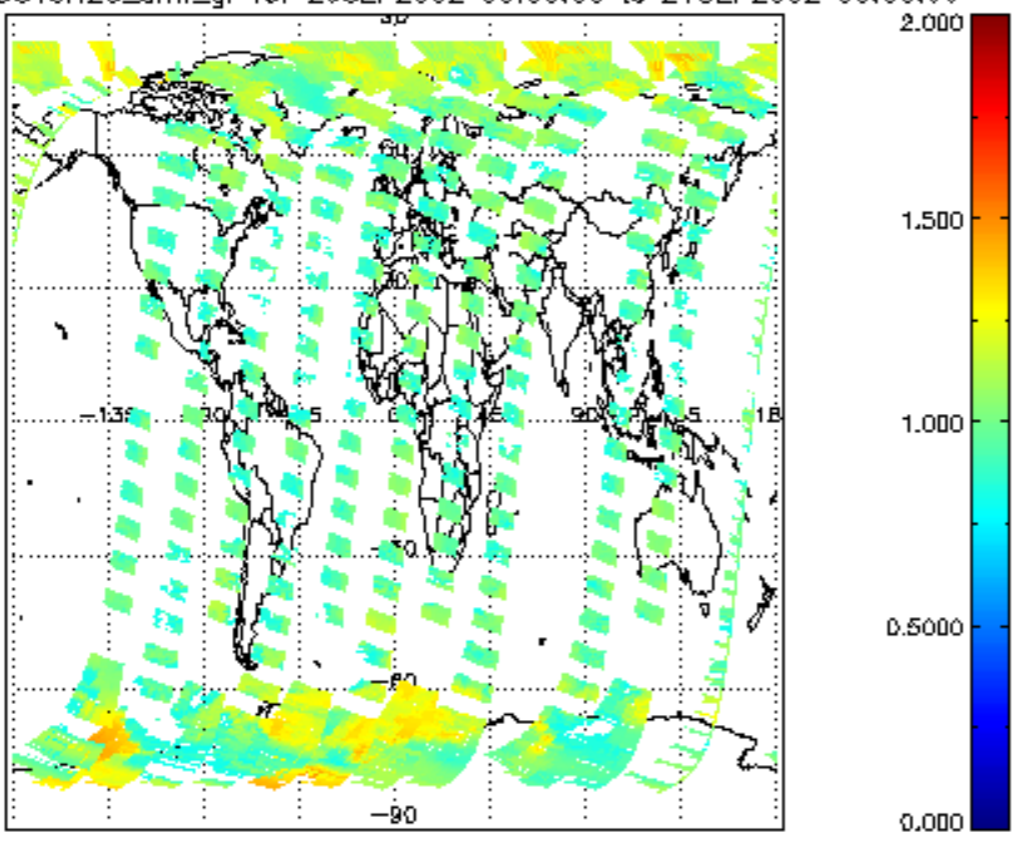
SCIOL2P\_NADUV8H2O\_vcd for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

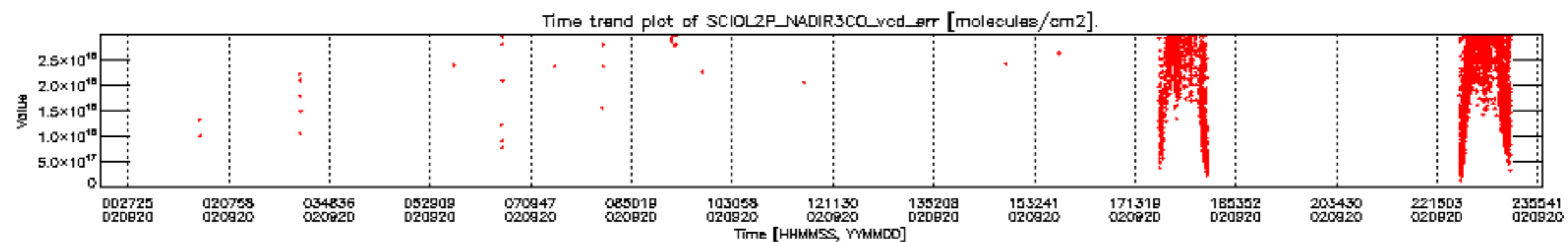
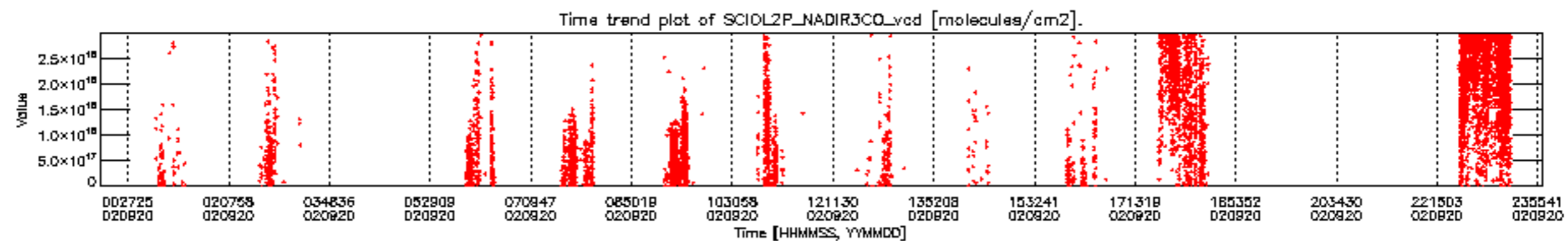


SCIOL2P\_NADUV8H2O\_vcd\_err for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

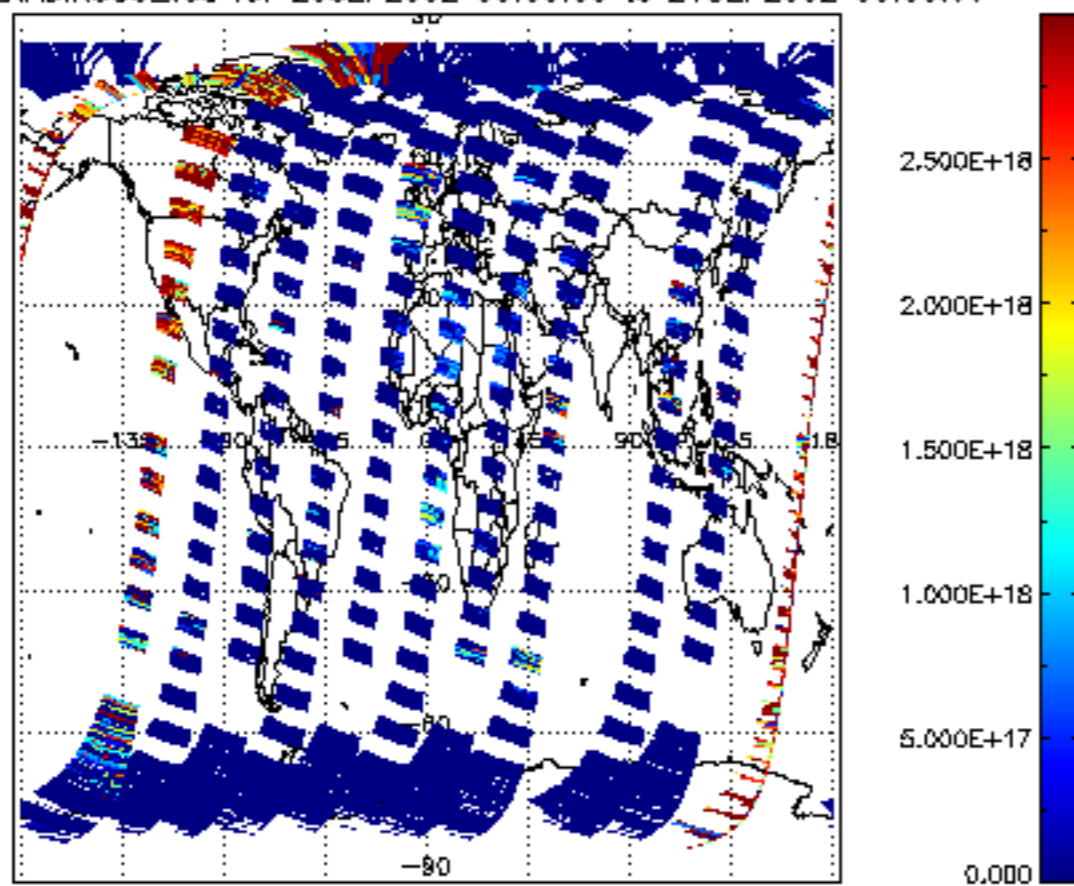


SCIOL2P\_NADUV8H2O\_amf\_gr for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

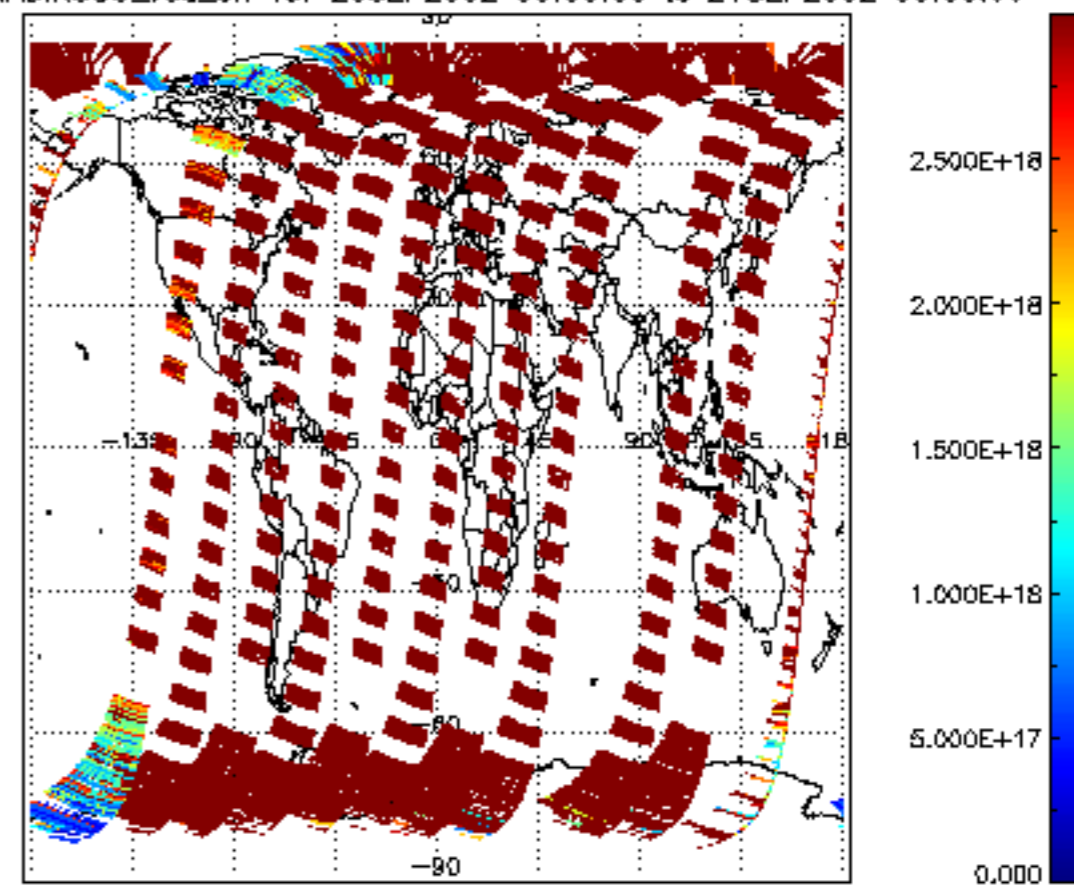




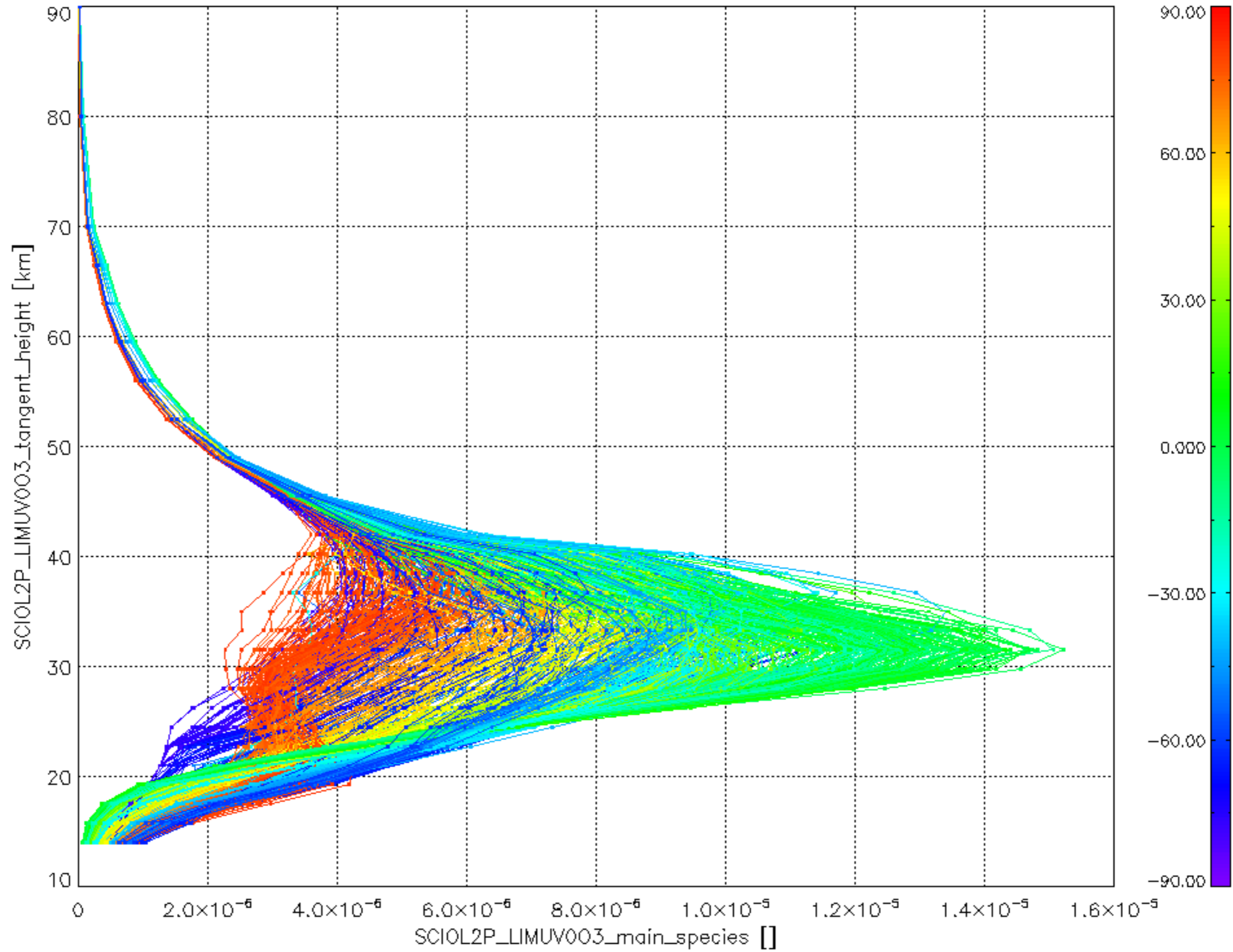
SCIOL2P\_NADIR3CO\_vcd for 20SEP2002 00:00:00 to 21SEP2002 00:00:00



SCIOL2P\_NADIR3CO\_vcd\_err for 20SEP2002 00:00:00 to 21SEP2002 00:00:00

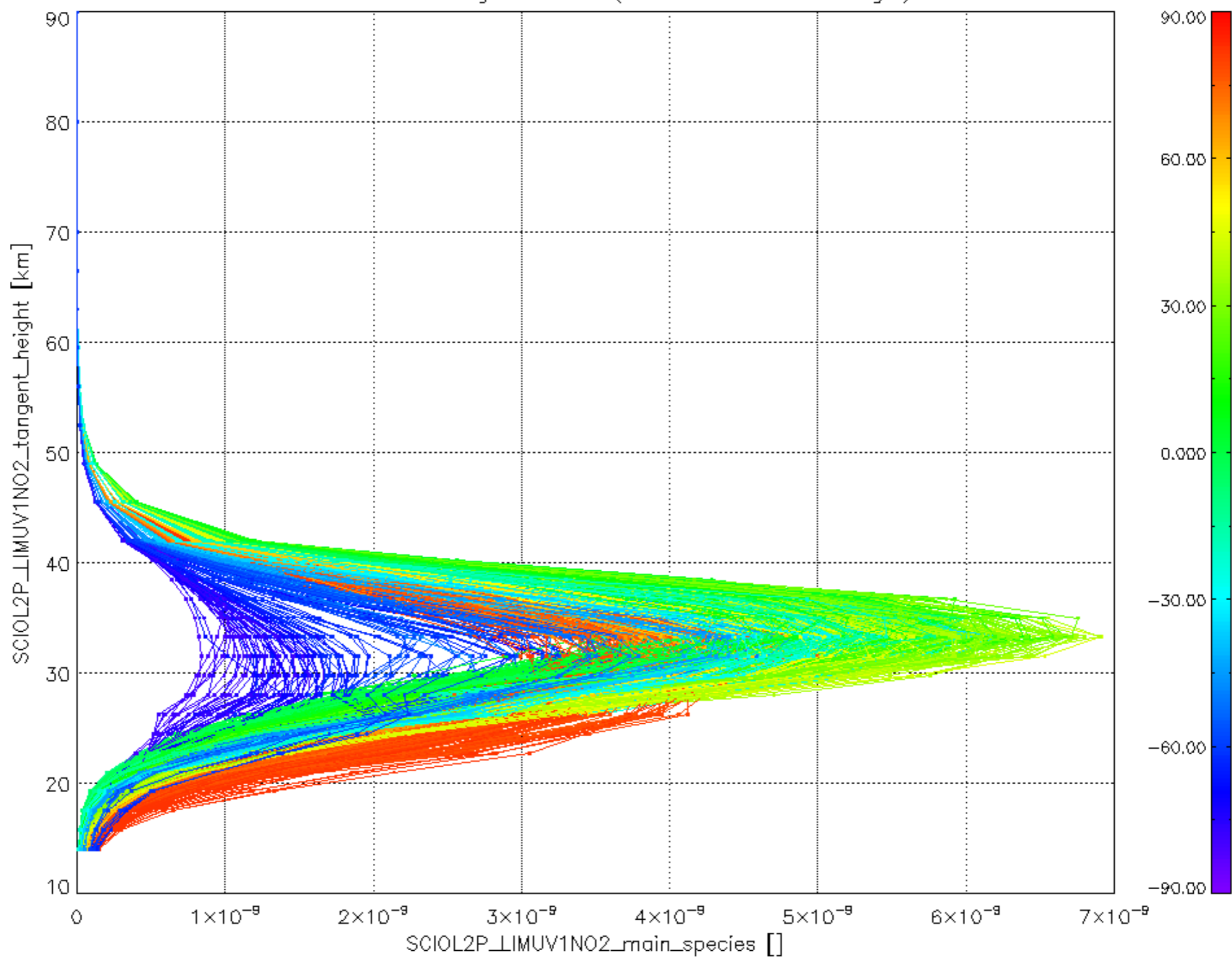


Plot of SCIOL2P\_LIMUV003\_main\_species.tang\_vmr vs. tangent height.  
 Colours indicate tangent latitude (see colour bar on the right).





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).

