

## 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 17:20:12
Data source version	SCIA-OL/5.02-W
Processing scope for products	28SEP2002 00:00:00 to 29SEP2002 00:00:00
Start time of first product within scope	27SEP2002 23:52:00
Stop time of last product within scope	28SEP2002 22:38:48
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__2PWDPA20020927_235200_000034492009_00460_03019_1885.N1</a>	27SEP2002 23:52:00	28SEP2002 00:49:30	0	GOOD
1	<a href="#">SCI_OL__2PWDPA20020928_013237_000035332009_00461_03020_1886.N1</a>	28SEP2002 01:32:37	28SEP2002 02:31:30	0	GOOD
2	<a href="#">SCI_OL__2PWDPA20020928_031313_000034492009_00462_03021_1887.N1</a>	28SEP2002 03:13:13	28SEP2002 04:10:43	0	GOOD
3	<a href="#">SCI_OL__2PWDPA20020928_045350_000035332009_00463_03022_1888.N1</a>	28SEP2002 04:53:50	28SEP2002 05:52:43	0	GOOD
4	<a href="#">SCI_OL__2PWDPA20020928_063426_000034492009_00464_03023_1889.N1</a>	28SEP2002 06:34:26	28SEP2002 07:31:56	0	GOOD

5	SCI_OL__2PWDPA20020928_081503_000035332009_00465_03024_1890.N1	28SEP2002 08:15:03	28SEP2002 09:13:56	0	GOOD
6	SCI_OL__2PWDPA20020928_095539_000034492009_00466_03025_1891.N1	28SEP2002 09:55:39	28SEP2002 10:53:09	0	GOOD
7	SCI_OL__2PWDPA20020928_113616_000035332009_00467_03026_1892.N1	28SEP2002 11:36:16	28SEP2002 12:35:09	0	GOOD
8	SCI_OL__2PWDPA20020928_131652_000034492009_00468_03027_1893.N1	28SEP2002 13:16:52	28SEP2002 14:14:22	0	GOOD
9	SCI_OL__2PWDPA20020928_145729_000035332009_00469_03028_1894.N1	28SEP2002 14:57:29	28SEP2002 15:56:22	0	GOOD
10	SCI_OL__2PWDPA20020928_163805_000034492009_00470_03029_1895.N1	28SEP2002 16:38:05	28SEP2002 17:35:35	0	GOOD
11	SCI_OL__2PWDPA20020928_181914_000035142009_00471_03030_1896.N1	28SEP2002 18:19:14	28SEP2002 19:17:49	0	GOOD
12	SCI_OL__2PWDPA20020928_195938_000034492009_00472_03031_1897.N1	28SEP2002 19:59:38	28SEP2002 20:57:08	0	GOOD
13	SCI_OL__2PWDPA20020928_213955_000035332009_00473_03032_1898.N1	28SEP2002 21:39:55	28SEP2002 22:38:48	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: 107400

Total number of cloud data DSRs with good quality flag (=0): 107400 (100.0 %)

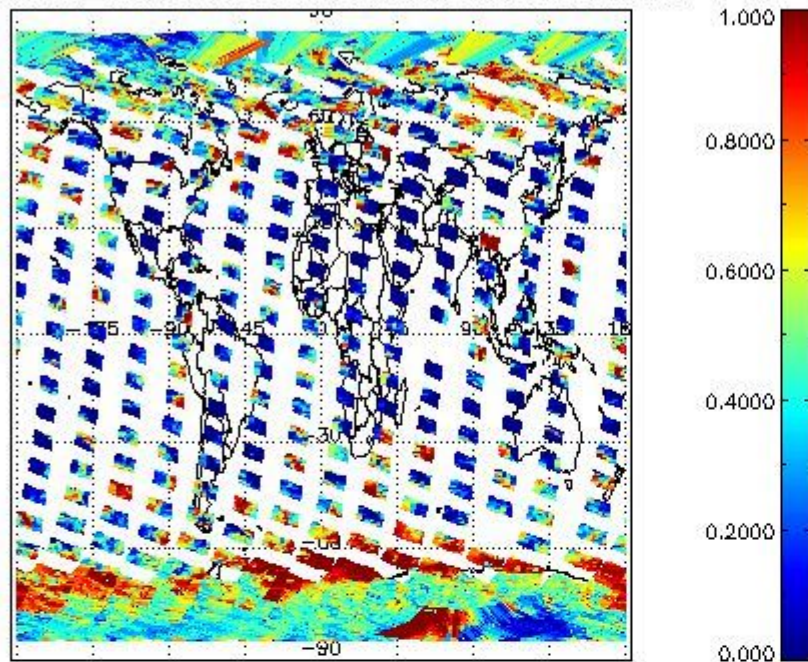
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	107400	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	107400	0.22682	0.25000	0.12500	1.0000	0.10728	s
CL_FRAC	107400	0.40821	0.37563	0.0000	1.0000	0.33222	
CL_FRAC_ERR	107400	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	107400	7.2581	8.0000	4.0000	32.000	3.4329	
PMD_READ_CL[0]	107400	0.78053	0.0000	0.0000	32.000	2.0855	-
PMD_READ_CL[1]	107400	1.8645	0.0000	0.0000	31.000	2.9870	-
CL_TOP_HEIGHT	94741	3.1066	1.6513	0.0000	17.000	3.4730	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	94741	53.053	43.887	0.0000	101.00	41.088	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	107400	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	107400	11001011	11000100	11000000	11100000	3379.4	
AERO_ABSO_IND	107400	0.16782	0.0000	0.0000	24.868	0.44070	
AERO_IND_DIAG	107400	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	107400	01101101	11000000	00000000	11000000	24321.	

#### Time and geolocation plots:

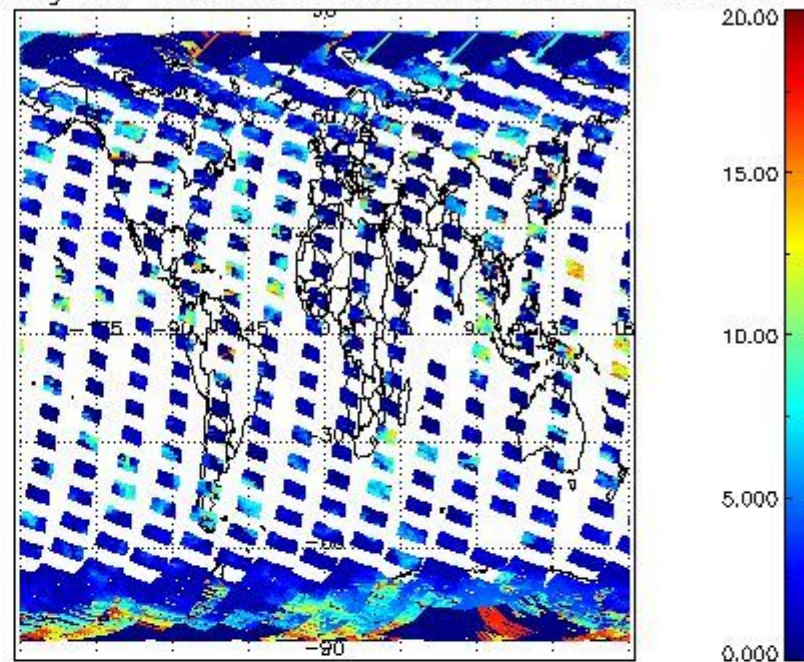
Plots are available for the following parameters:

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

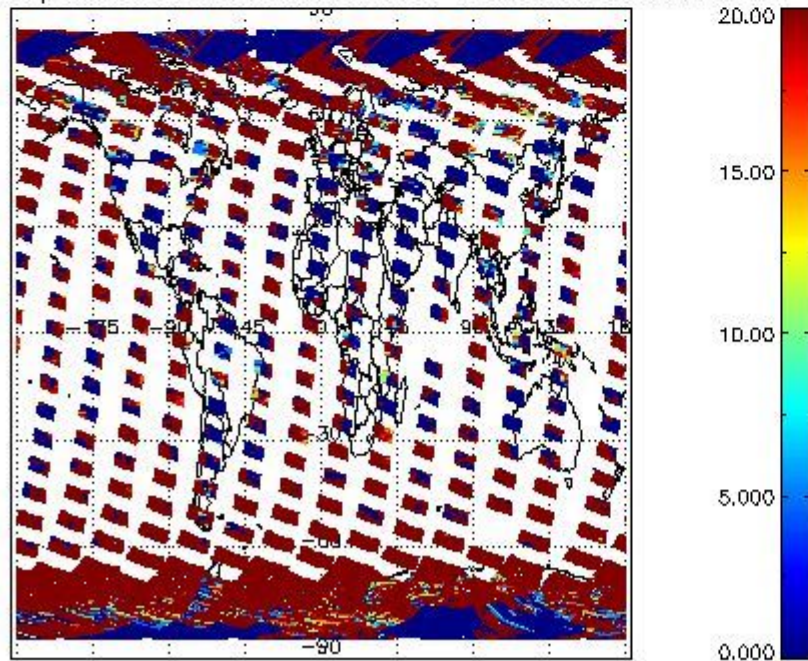
cL\_frac for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



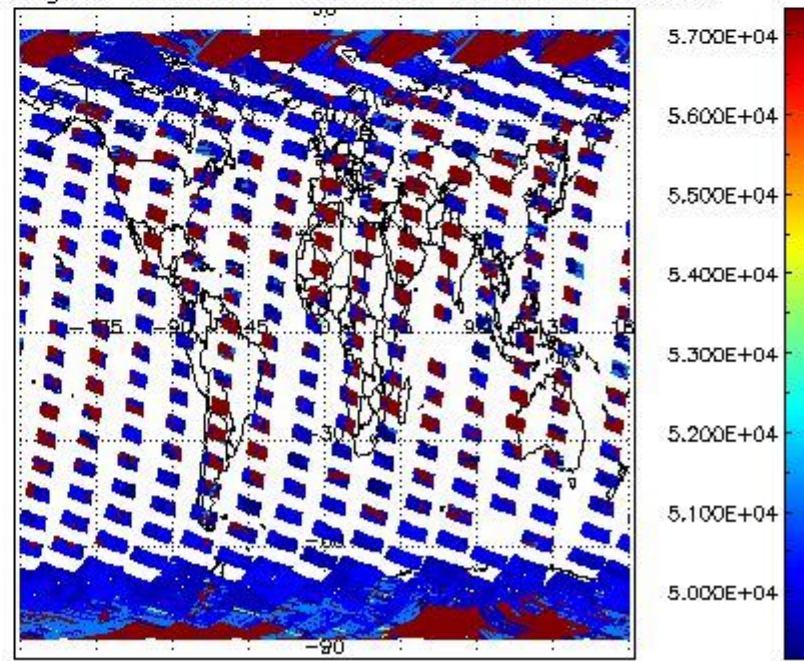
cL\_top\_height for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



cL\_opt\_depth for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



cloud\_flags for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



## 2.2.2 Nadir

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

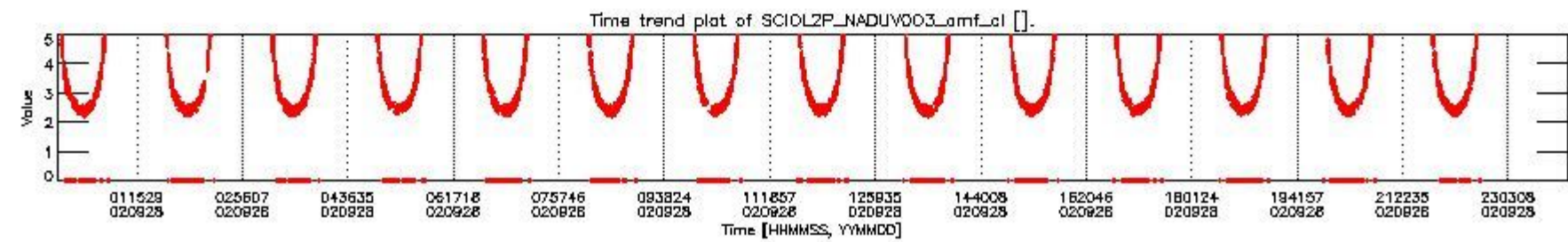
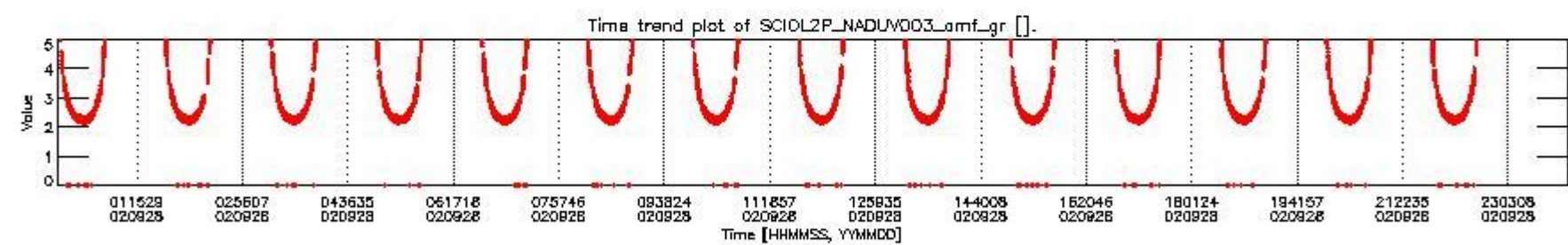
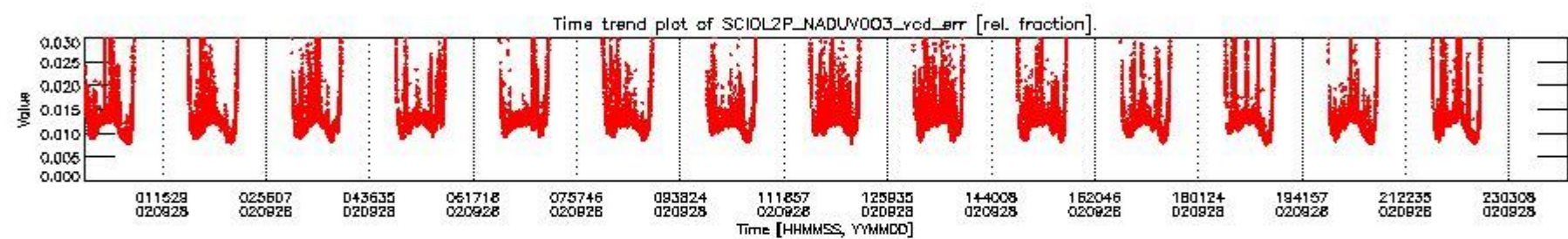
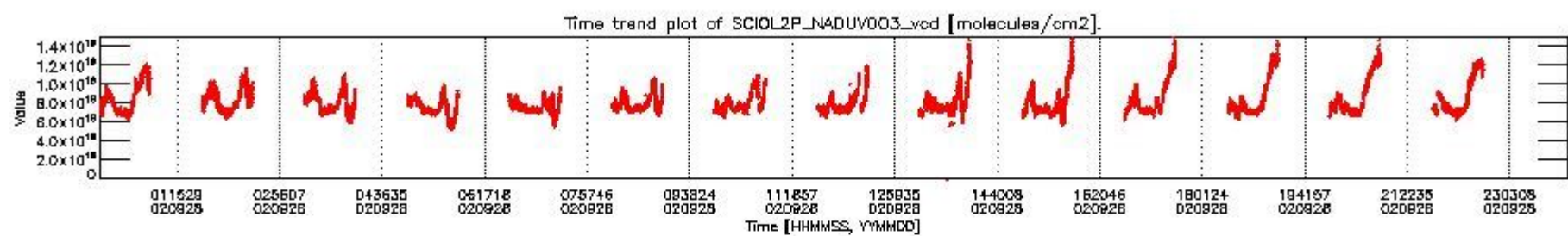
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

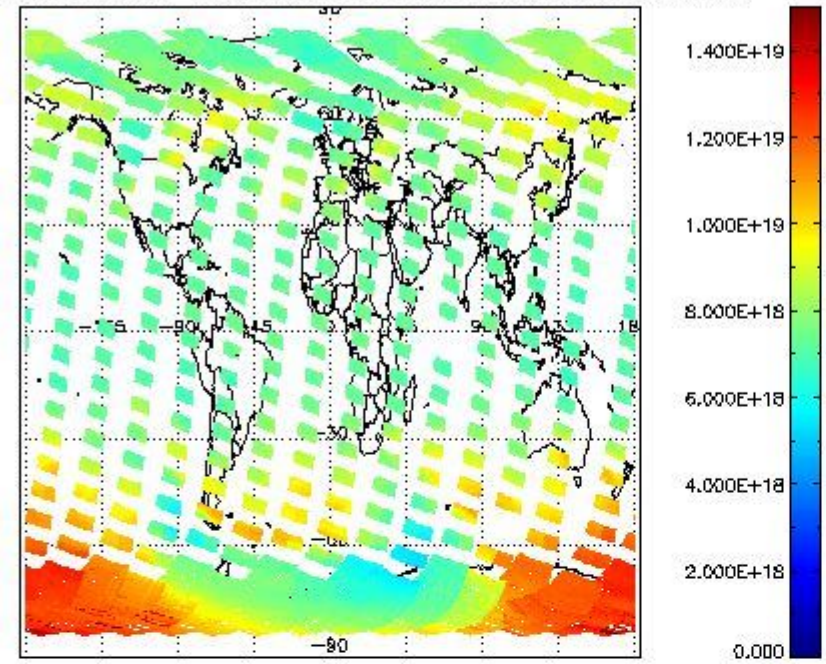
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

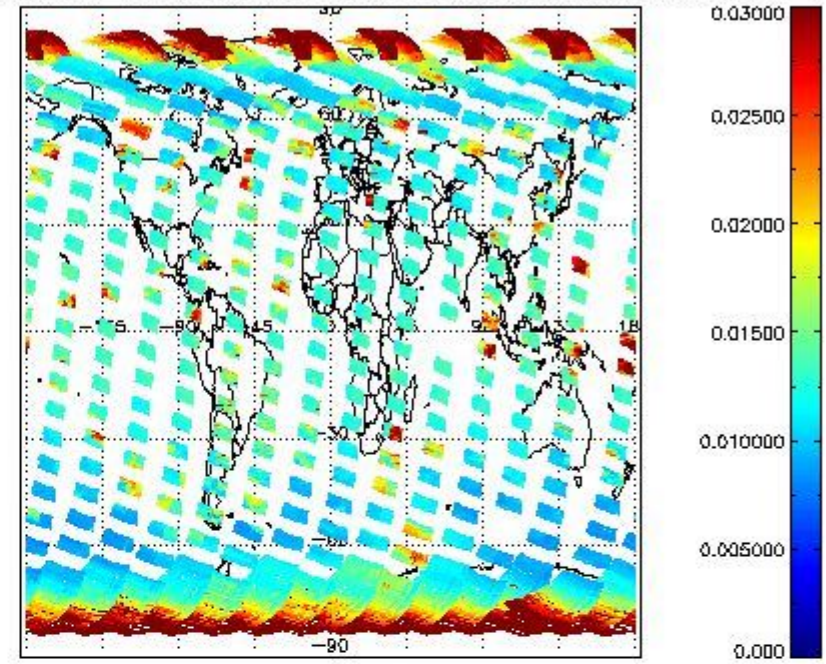
#### 2.2.2.1 O3 (UV0)



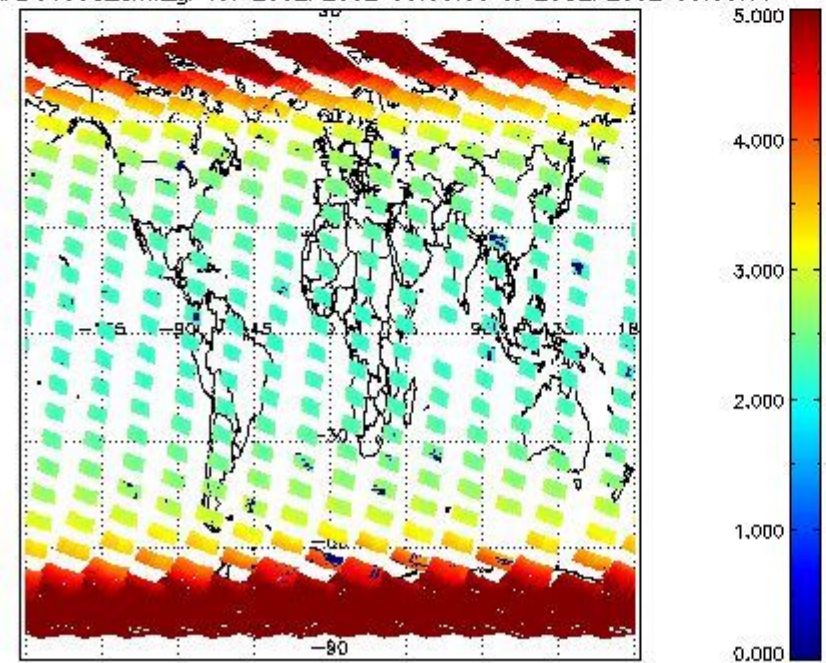
SCIOL2P\_NADUV003\_vcd for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



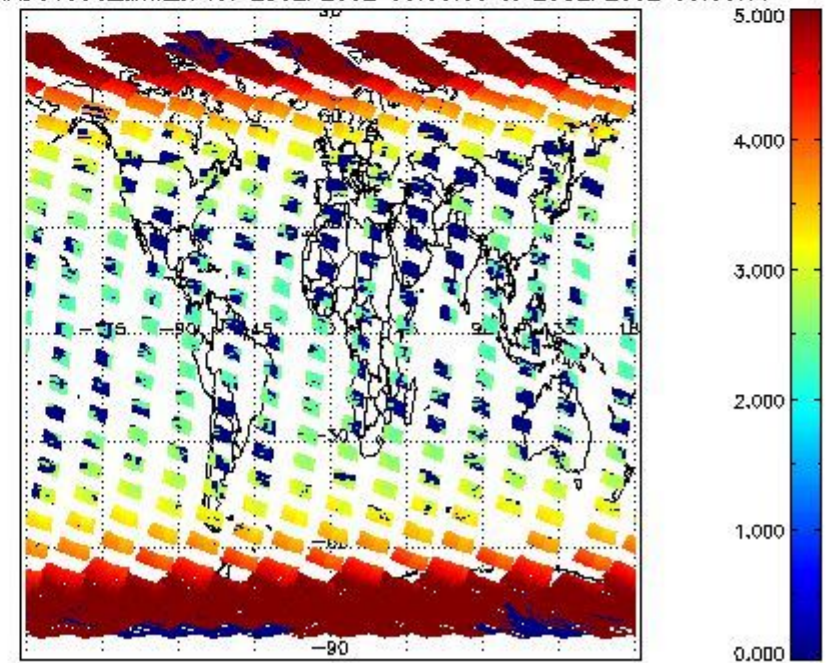
SCIOL2P\_NADUV003\_vcd\_err for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



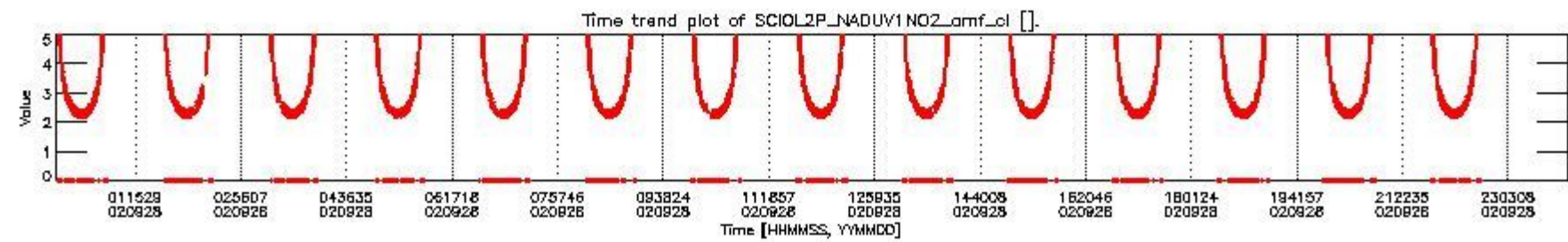
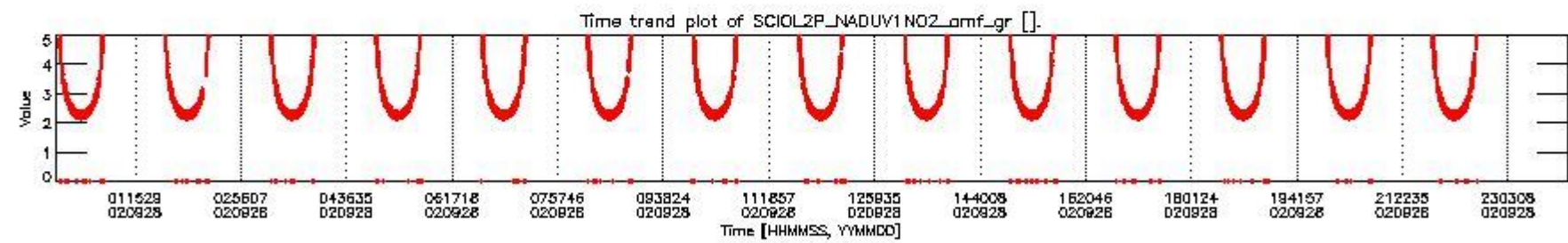
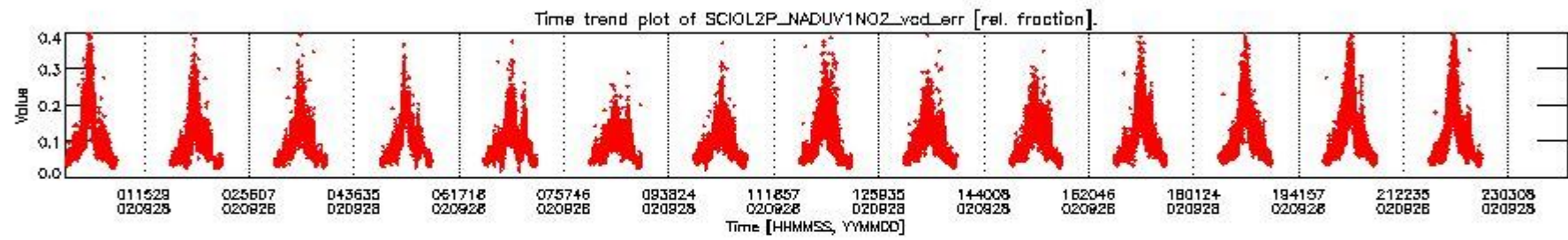
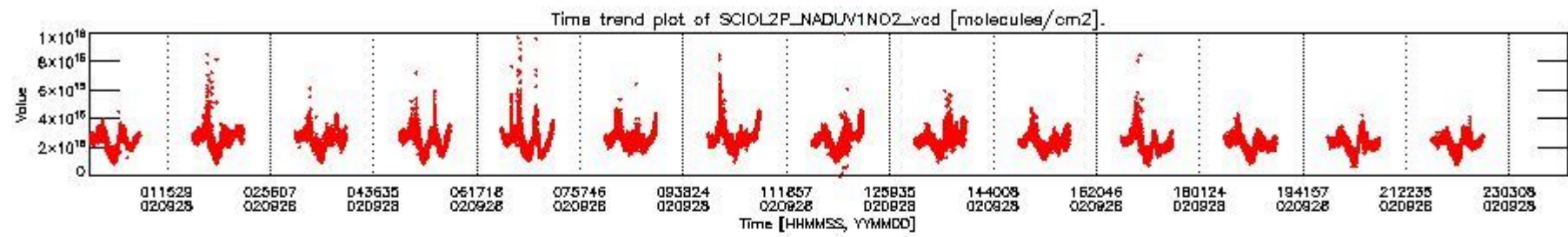
SCIOL2P\_NADUV003\_amf\_gr for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



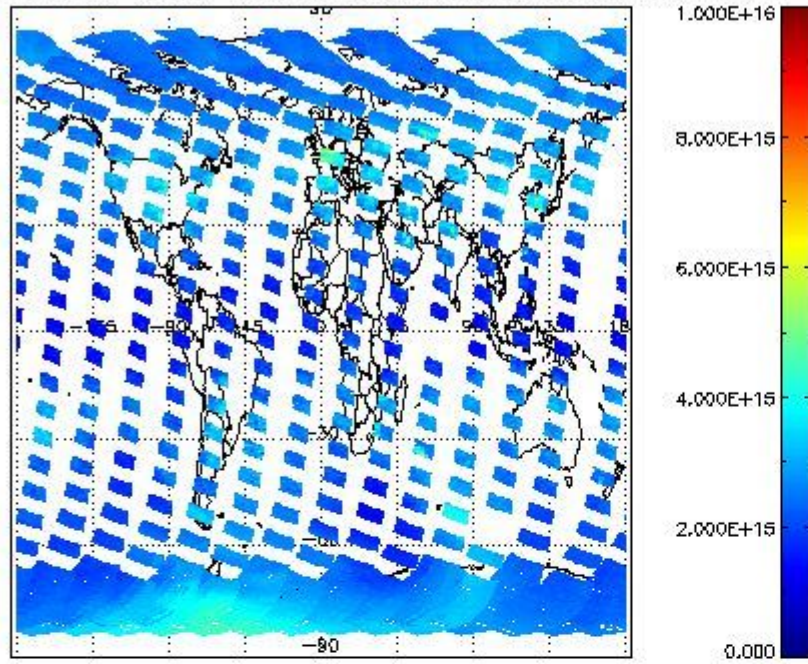
SCIOL2P\_NADUV003\_amf\_cl for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



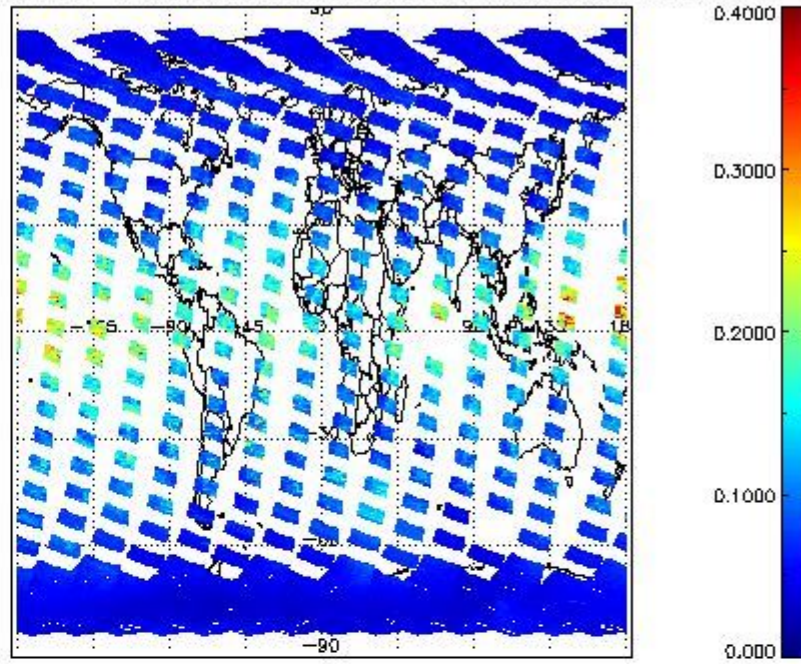
2.2.2.2 NO2 (UV1)



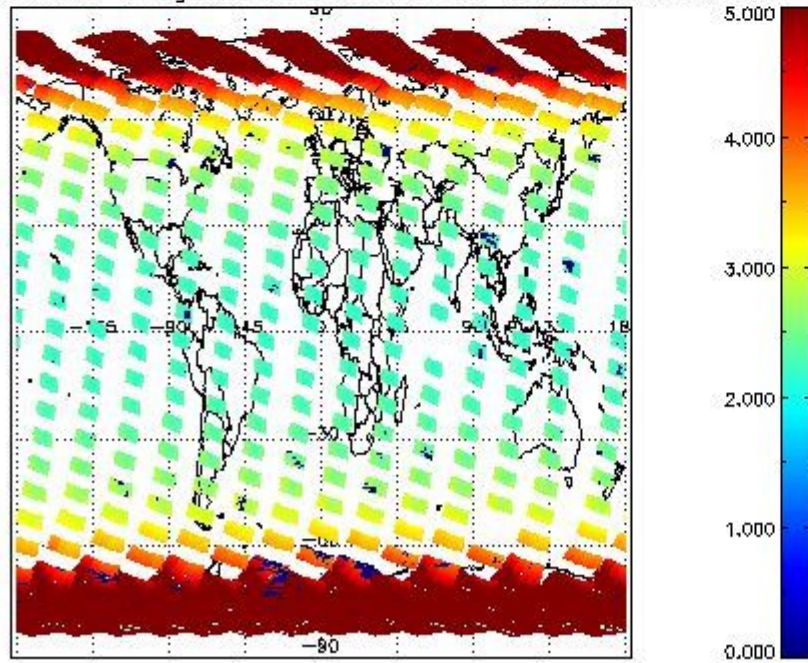
SCIOL2P\_NADUV1NO2\_vcd for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



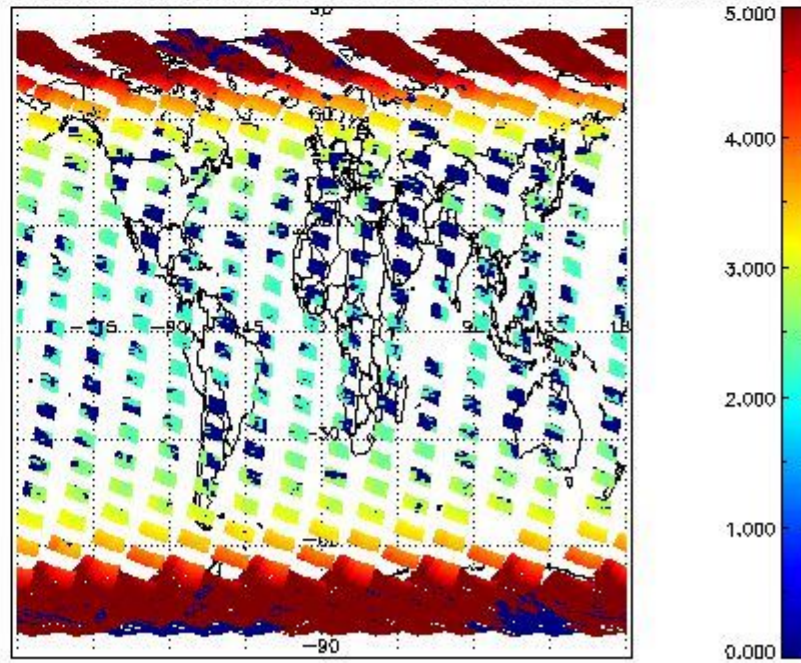
SCIOL2P\_NADUV1NO2\_vcd\_err for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



SCIOL2P\_NADUV1NO2\_amf\_gr for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

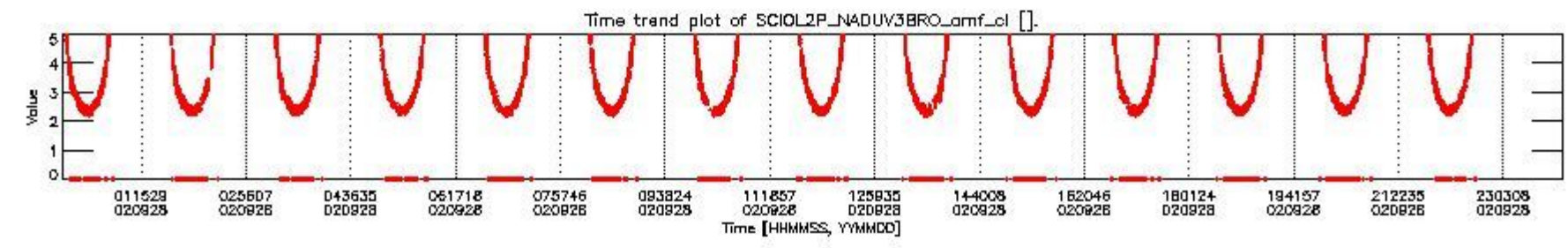
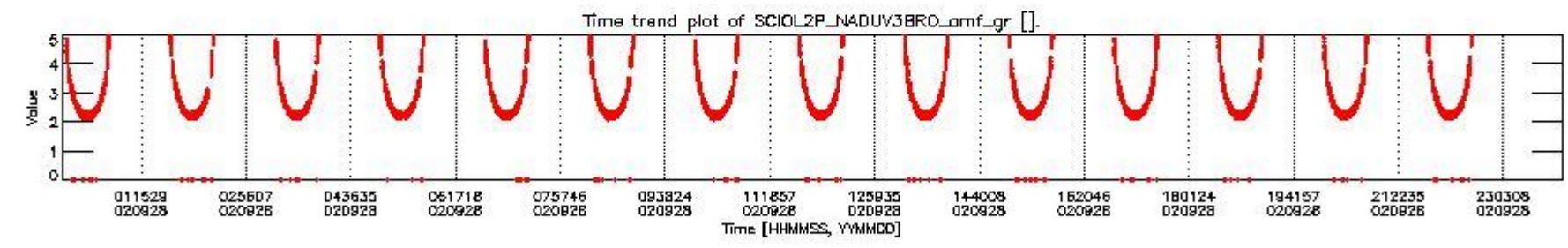
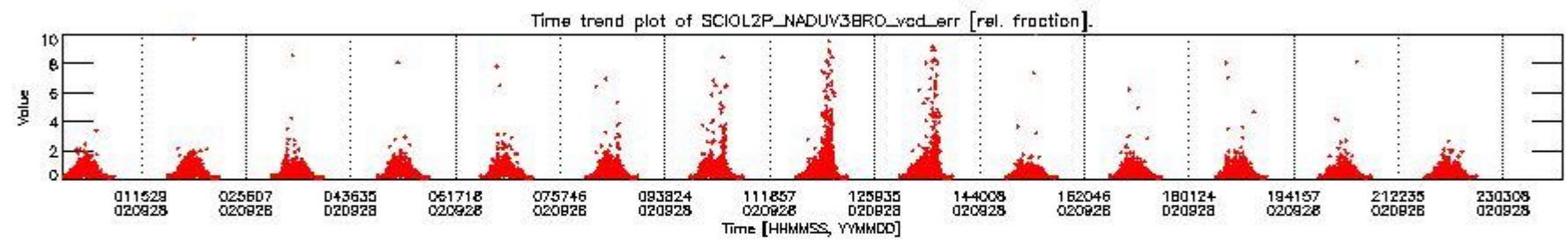
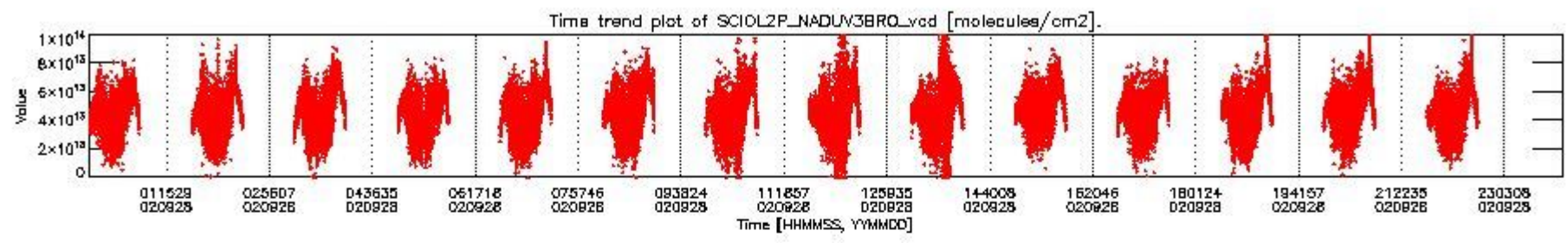


SCIOL2P\_NADUV1NO2\_amf\_cl for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

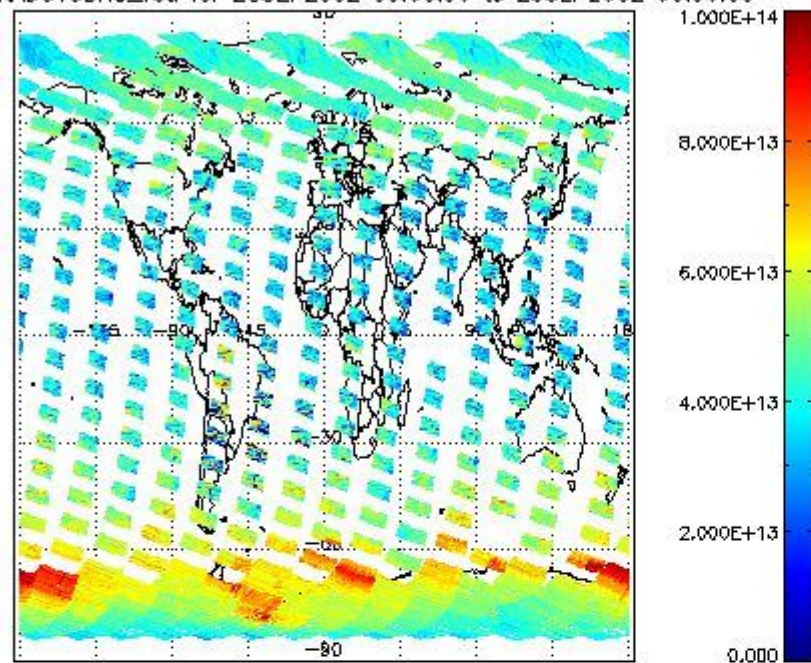


2.2.2.3 BrO (UV3)

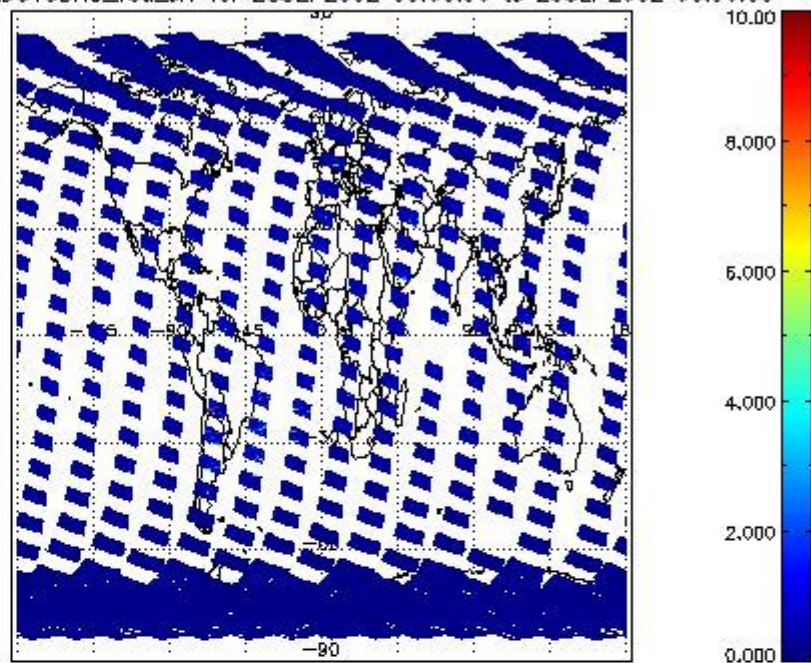




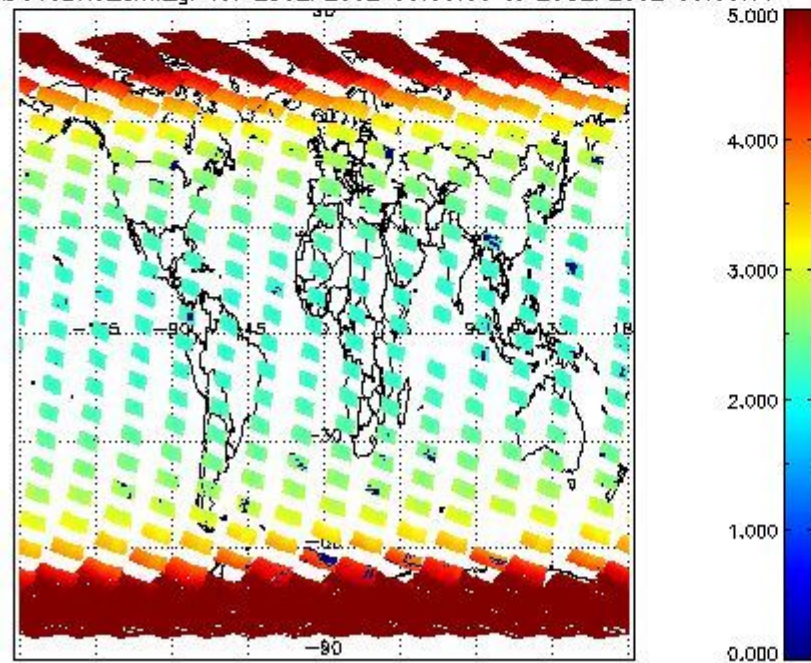
SCIOL2P\_NADUV3BRO\_vcd for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



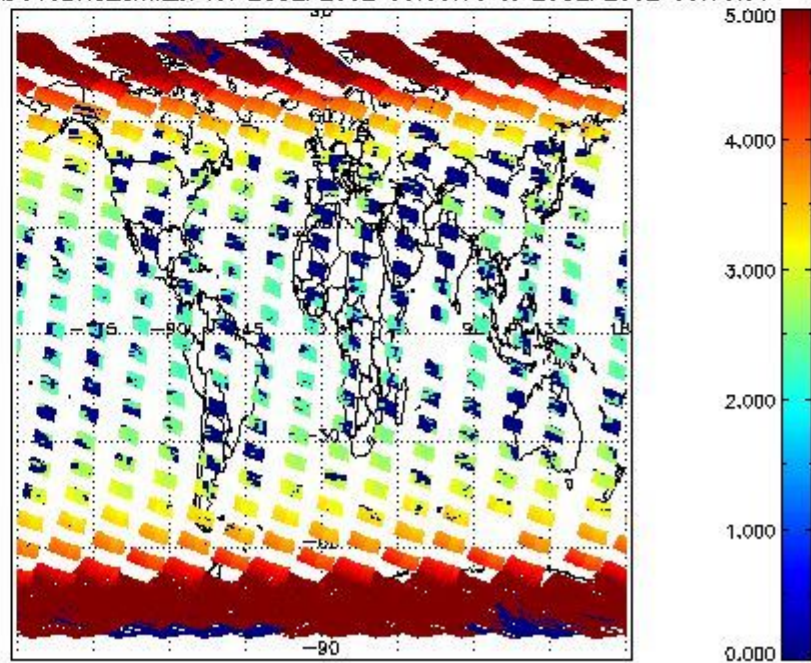
SCIOL2P\_NADUV3BRO\_vcd\_err for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



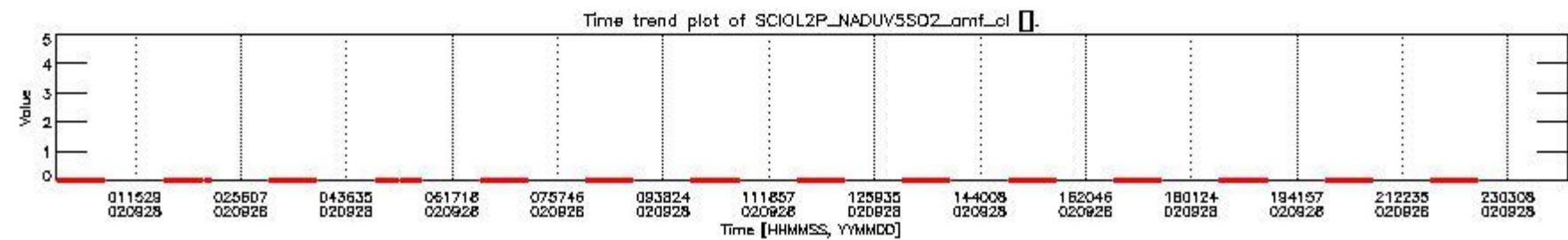
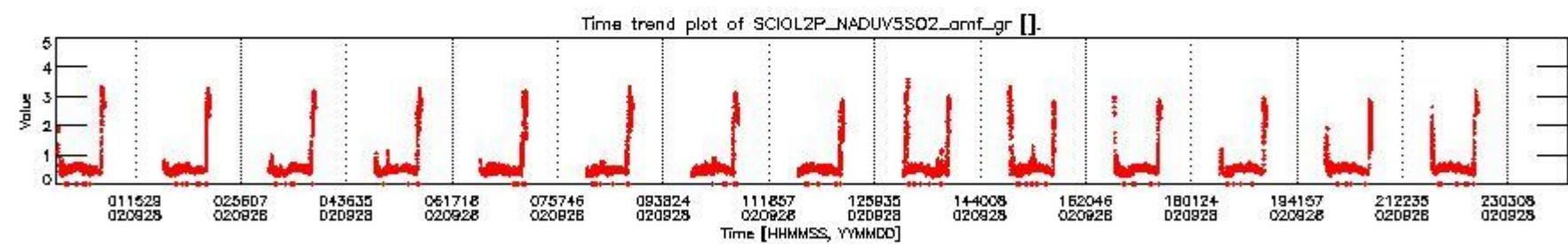
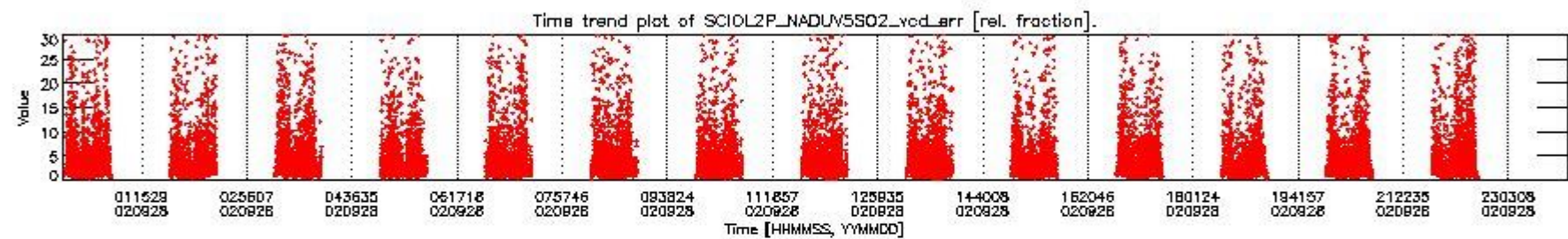
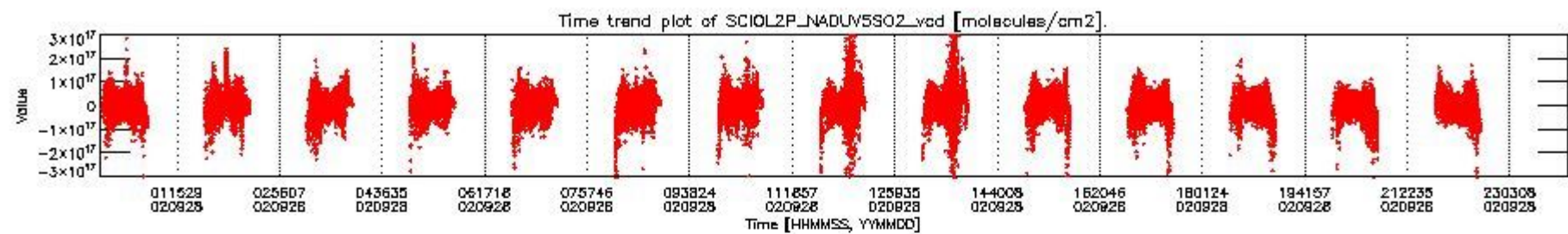
SCIOL2P\_NADUV3BRO\_amf\_gr for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



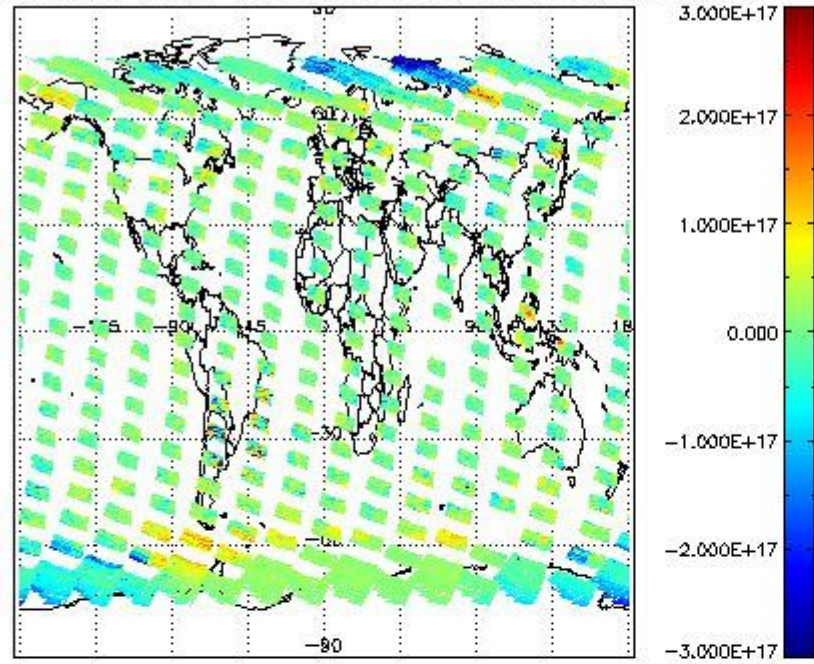
SCIOL2P\_NADUV3BRO\_amf\_cl for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



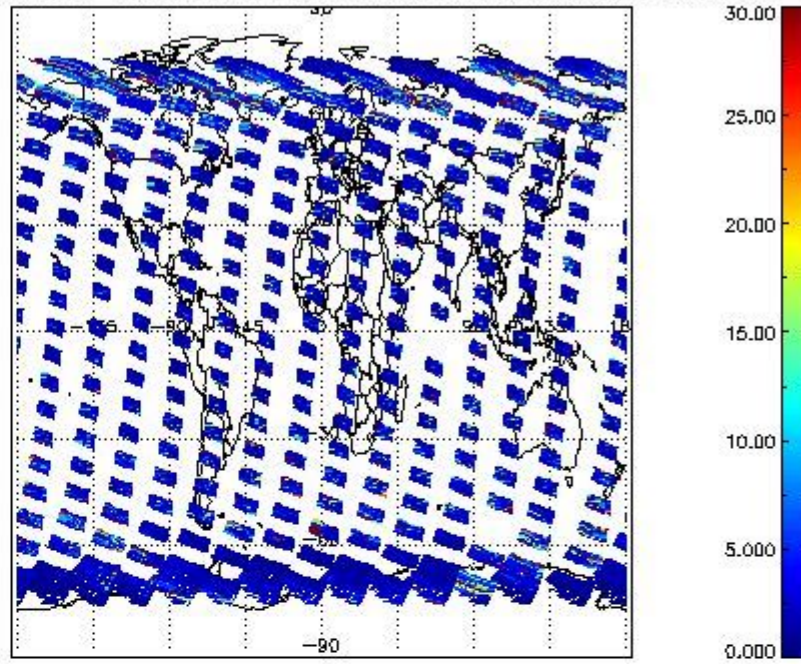
2.2.2.4 SO2 (UV5)



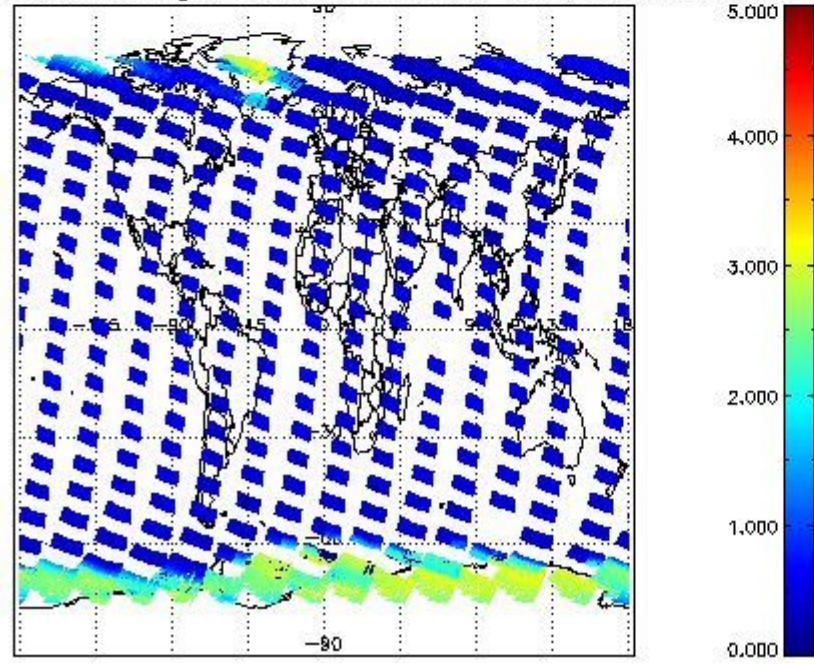
SCIOL2P\_NADUV5S02\_vcd for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



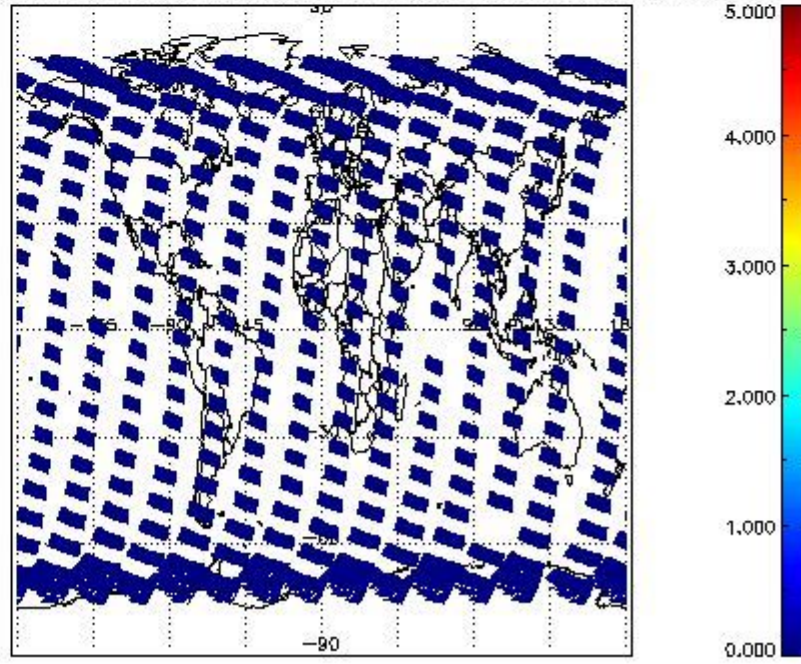
SCIOL2P\_NADUV5S02\_vcd\_err for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



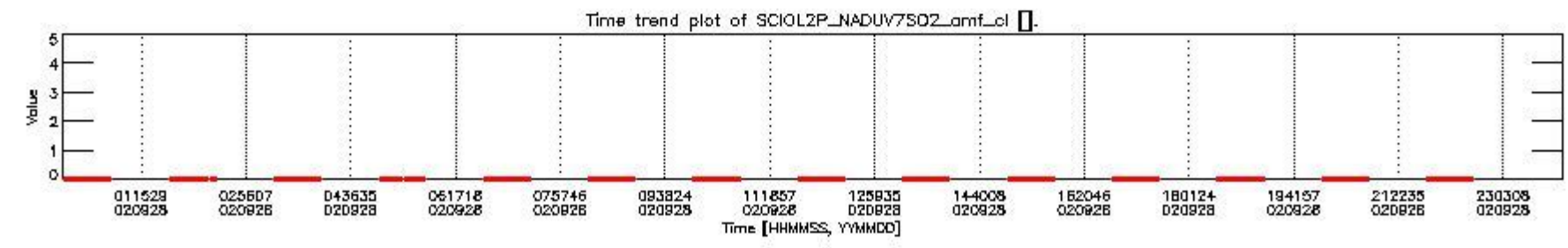
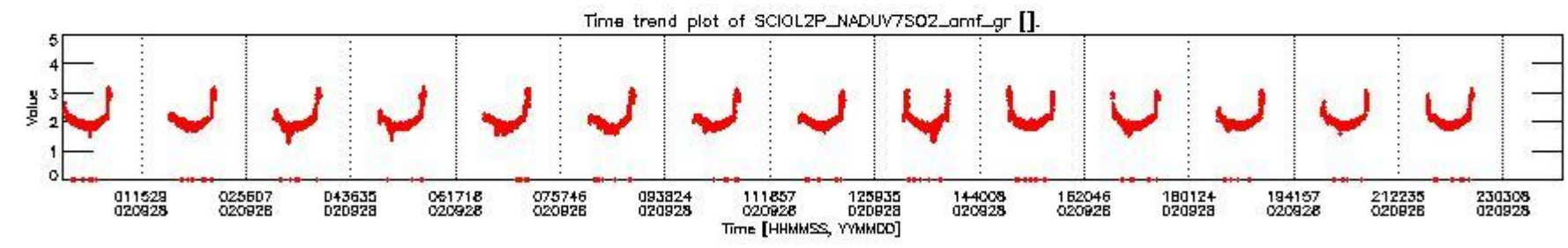
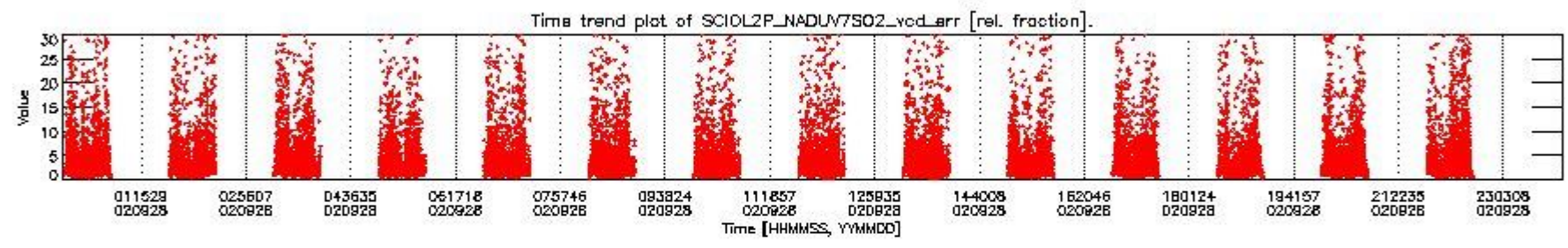
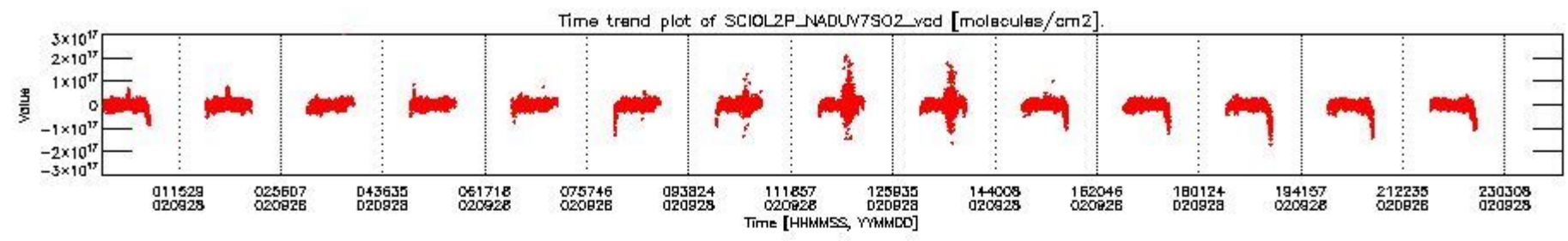
SCIOL2P\_NADUV5S02\_amf\_gr for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



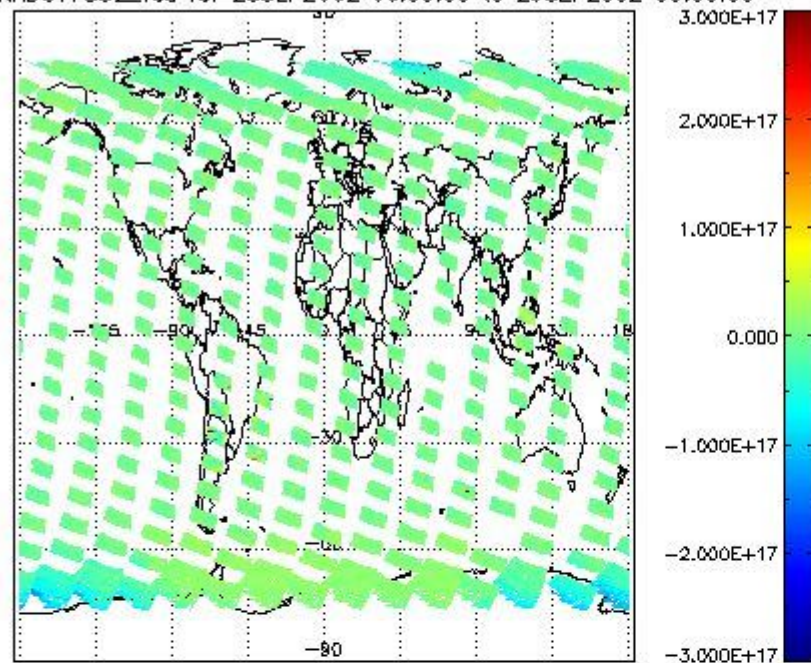
SCIOL2P\_NADUV5S02\_amf\_cl for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



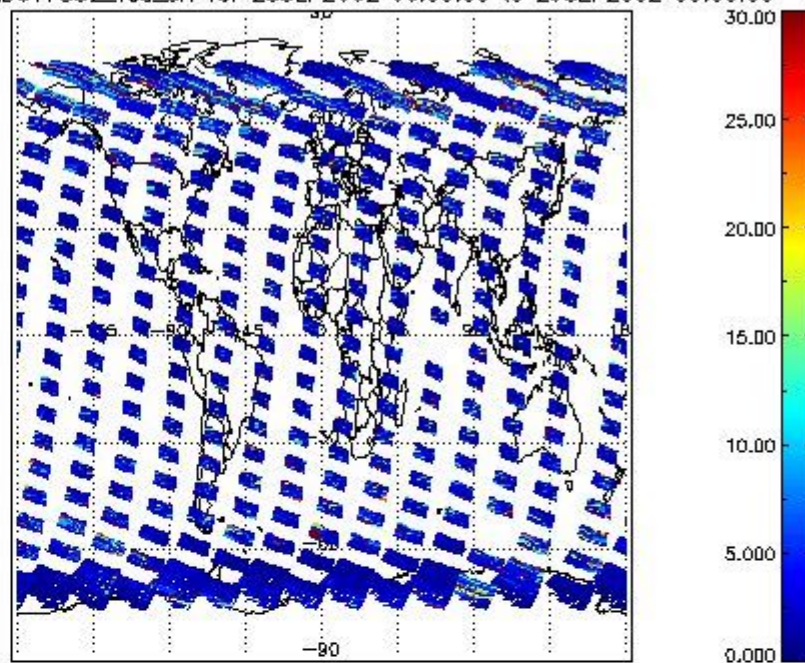
### 2.2.2.5 SO2 (UV7)



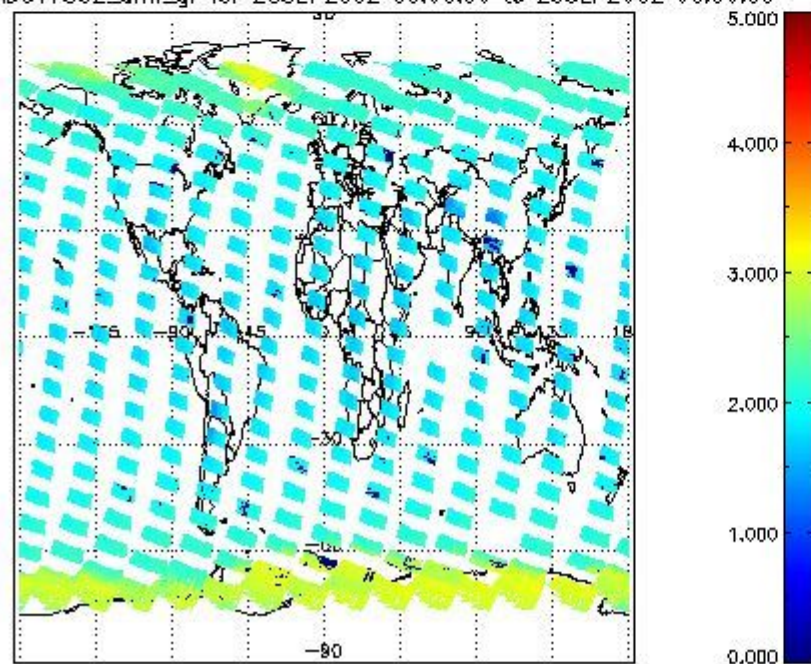
SCIOL2P\_NADUV7S02\_vcd for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



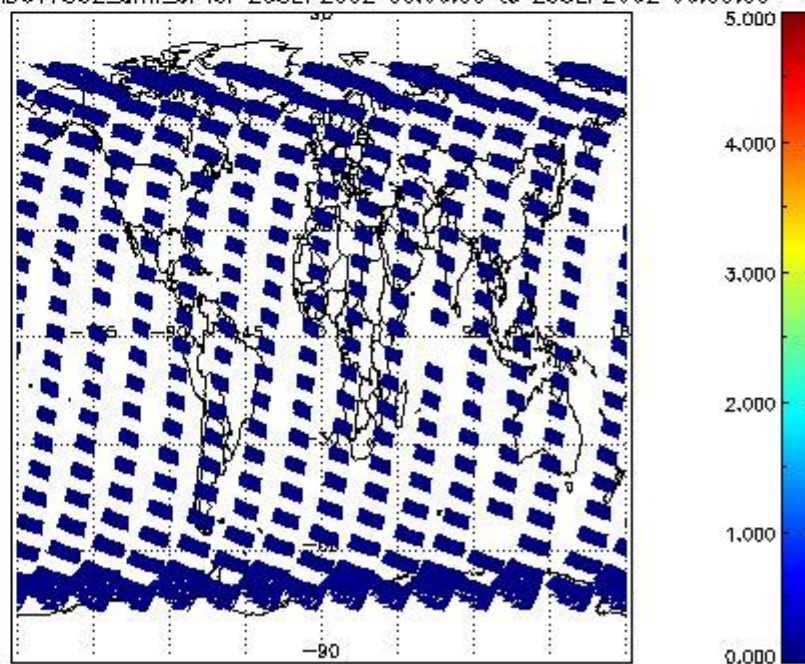
SCIOL2P\_NADUV7S02\_vcd\_err for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



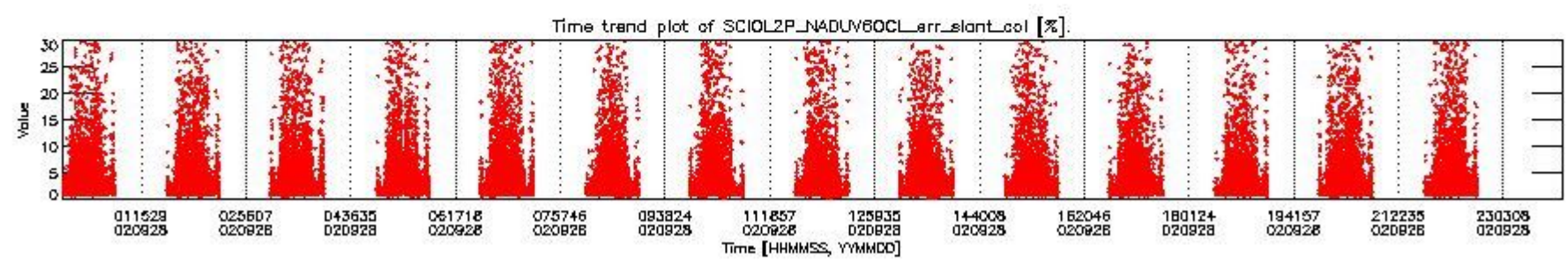
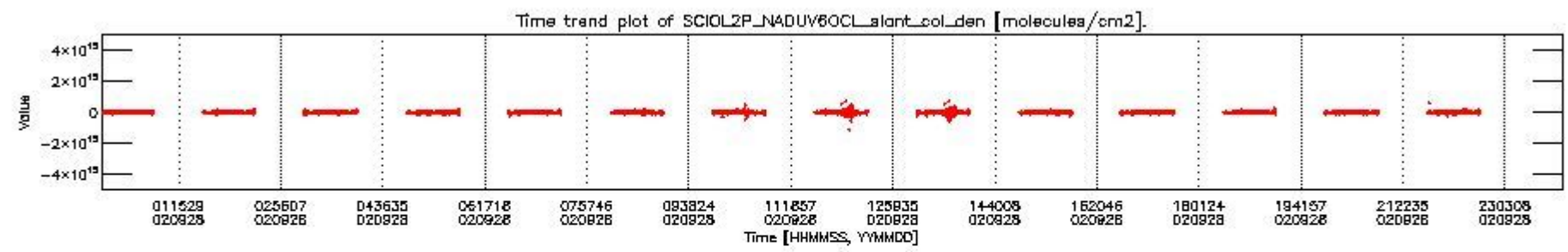
SCIOL2P\_NADUV7S02\_amf\_gr for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



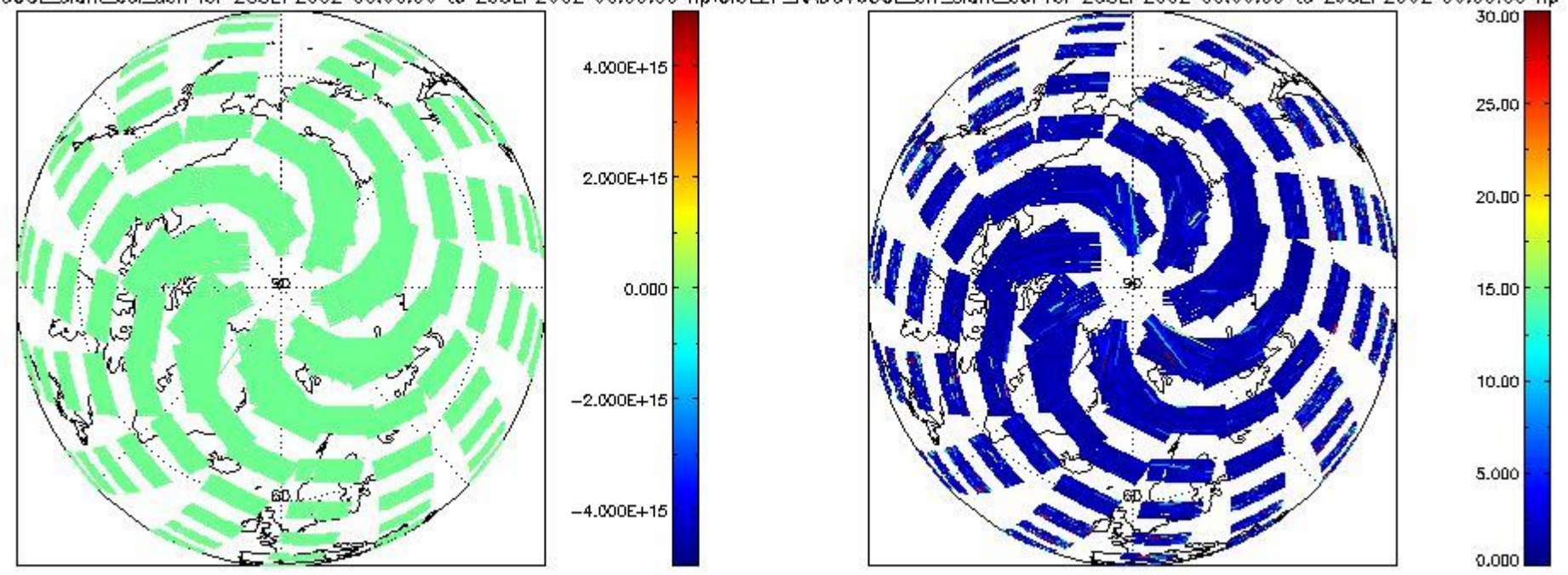
SCIOL2P\_NADUV7S02\_amf\_cl for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



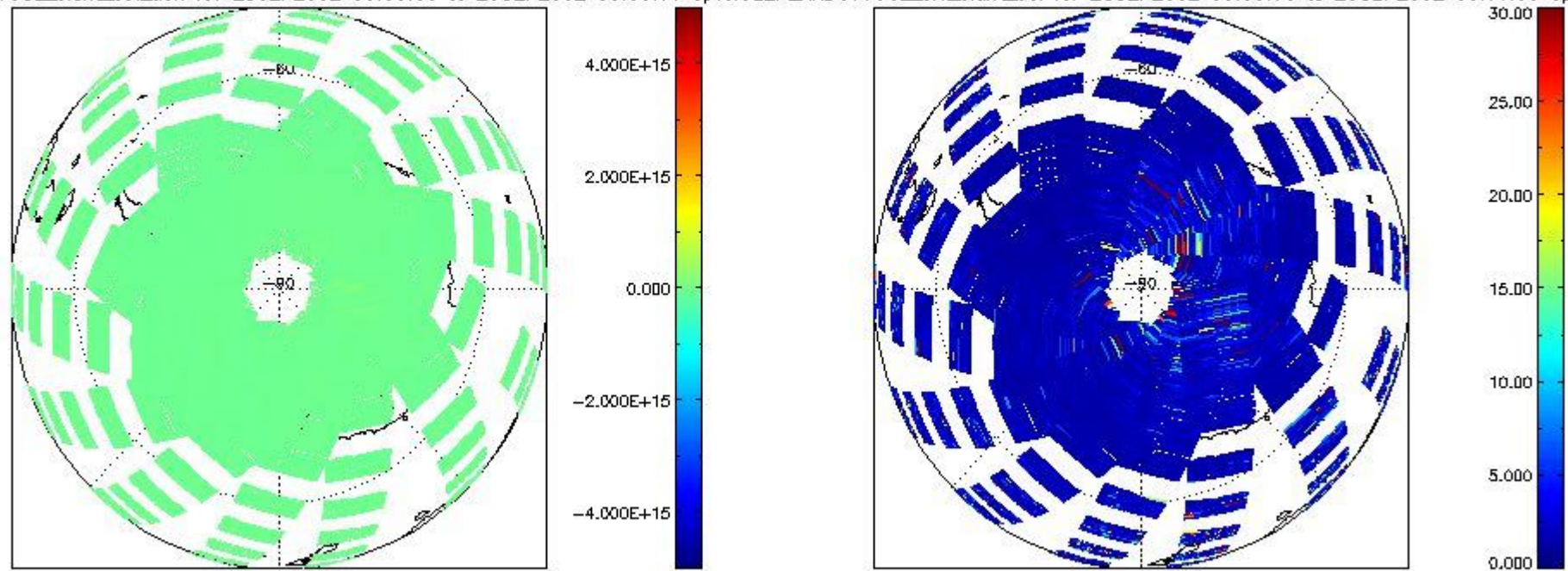
2.2.2.6 OCIO (UV6)



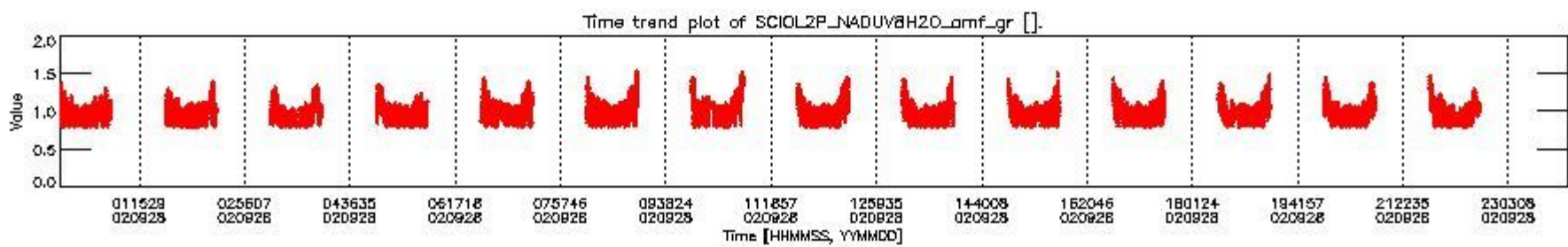
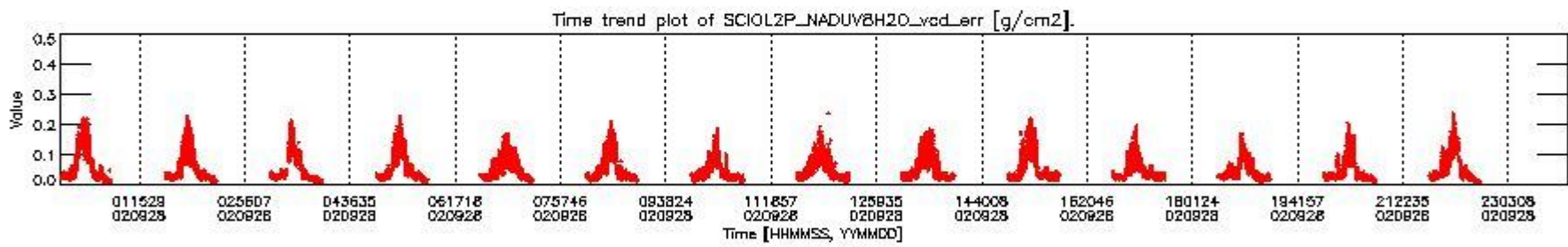
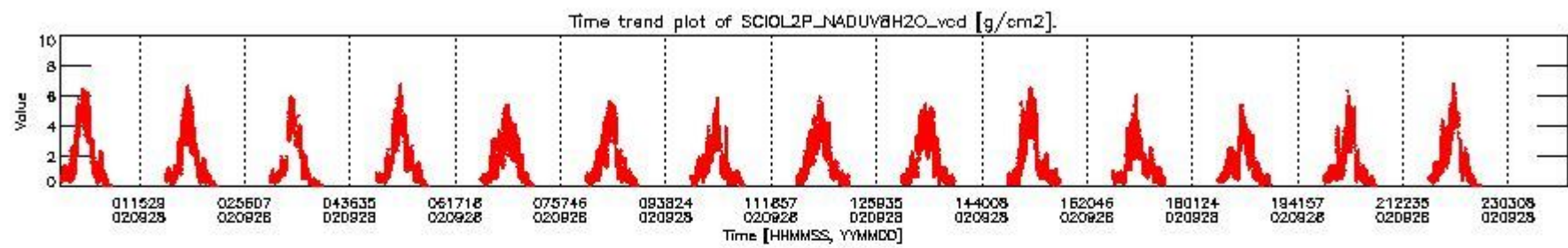
CIOL2P\_NADUV60CLslant\_col\_den for 28SEP2002 00:00:00 to 29SEP2002 00:00:00 np; CIOL2P\_NADUV60CLarr\_slant\_col for 28SEP2002 00:00:00 to 29SEP2002 00:00:00 np



CIOL2P\_NADUV60CL\_slant\_col\_den for 28SEP2002 00:00:00 to 29SEP2002 00:00:00 sp | CIOL2P\_NADUV60CL\_err\_slant\_col for 28SEP2002 00:00:00 to 29SEP2002 00:00:00 sp

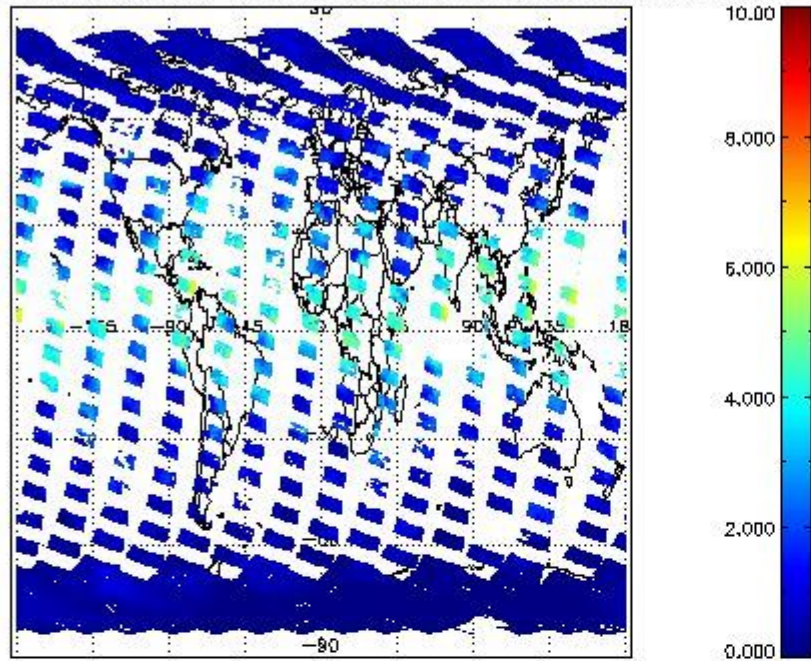


### 2.2.2.7 H2O (UV8)

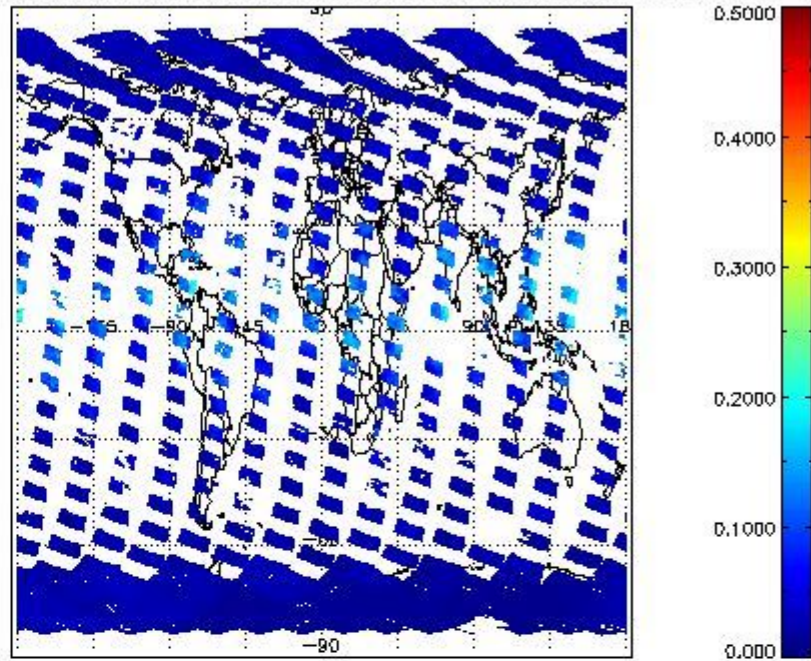




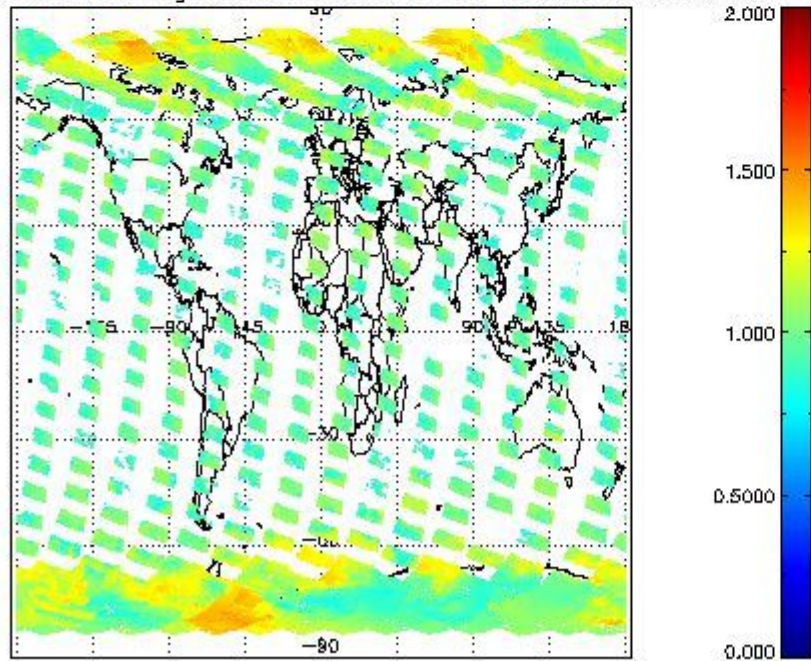
SCIOL2P\_NADUV6H2O\_vcd for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

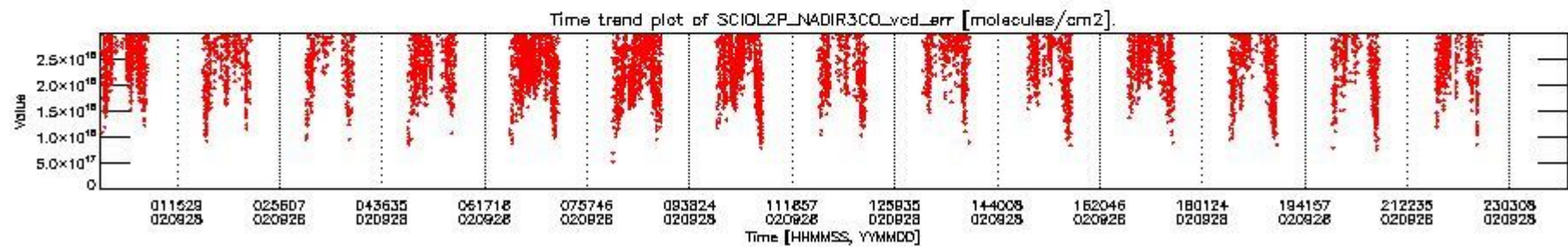
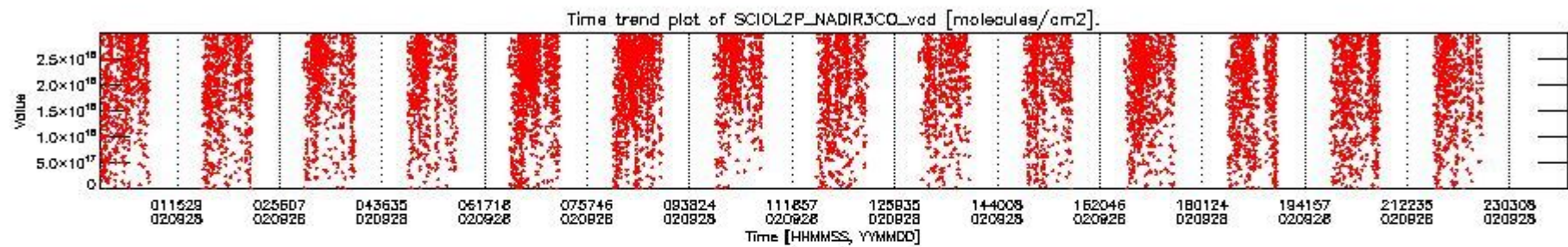


SCIOL2P\_NADUV6H2O\_vcd\_err for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

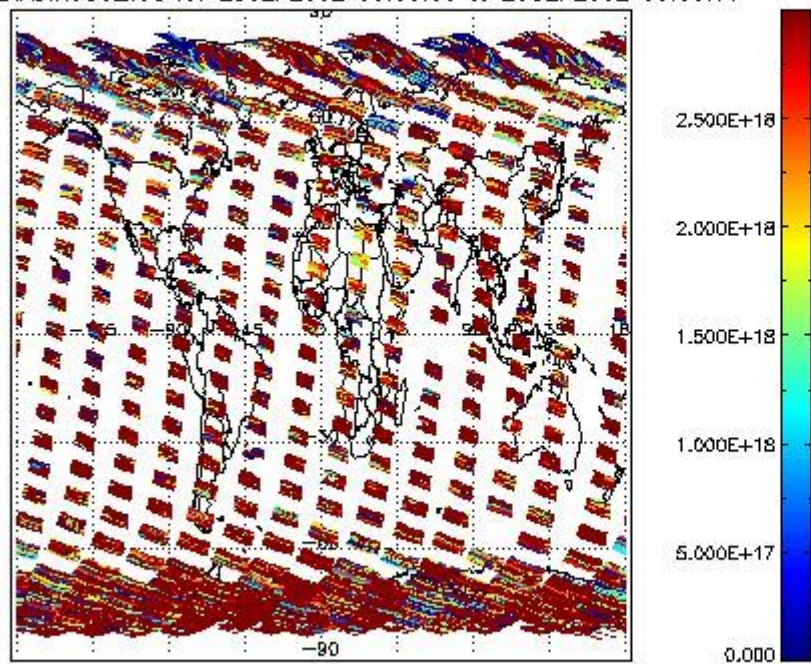


SCIOL2P\_NADUV6H2O\_arnf\_gr for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

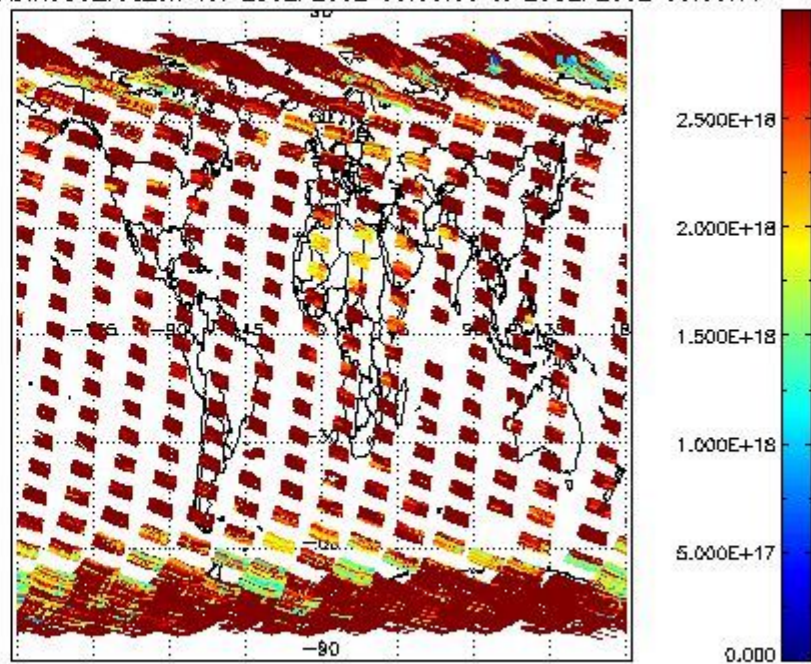




SCIO2P\_NADIR3CO\_vcd for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



SCIO2P\_NADIR3CO\_vcd\_err for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



### 2.2.3 Limb

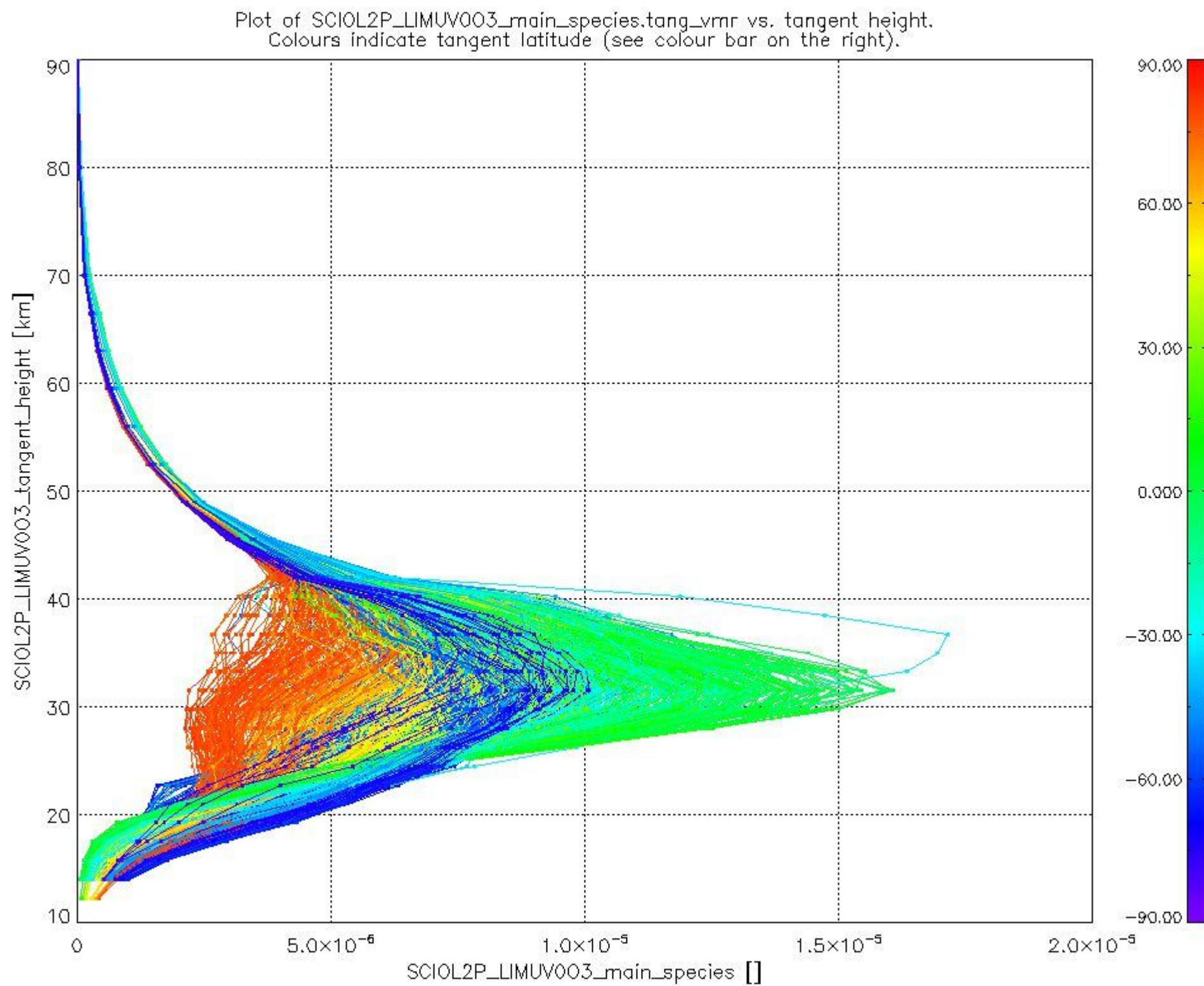
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

The following data items are currently included into this section:

Number	Data item ID
0	SCIO2P_LIMUV003_main_species
1	SCIO2P_LIMUV1NO2_main_species
2	SCIO2P_LIMUV3BRO_main_species

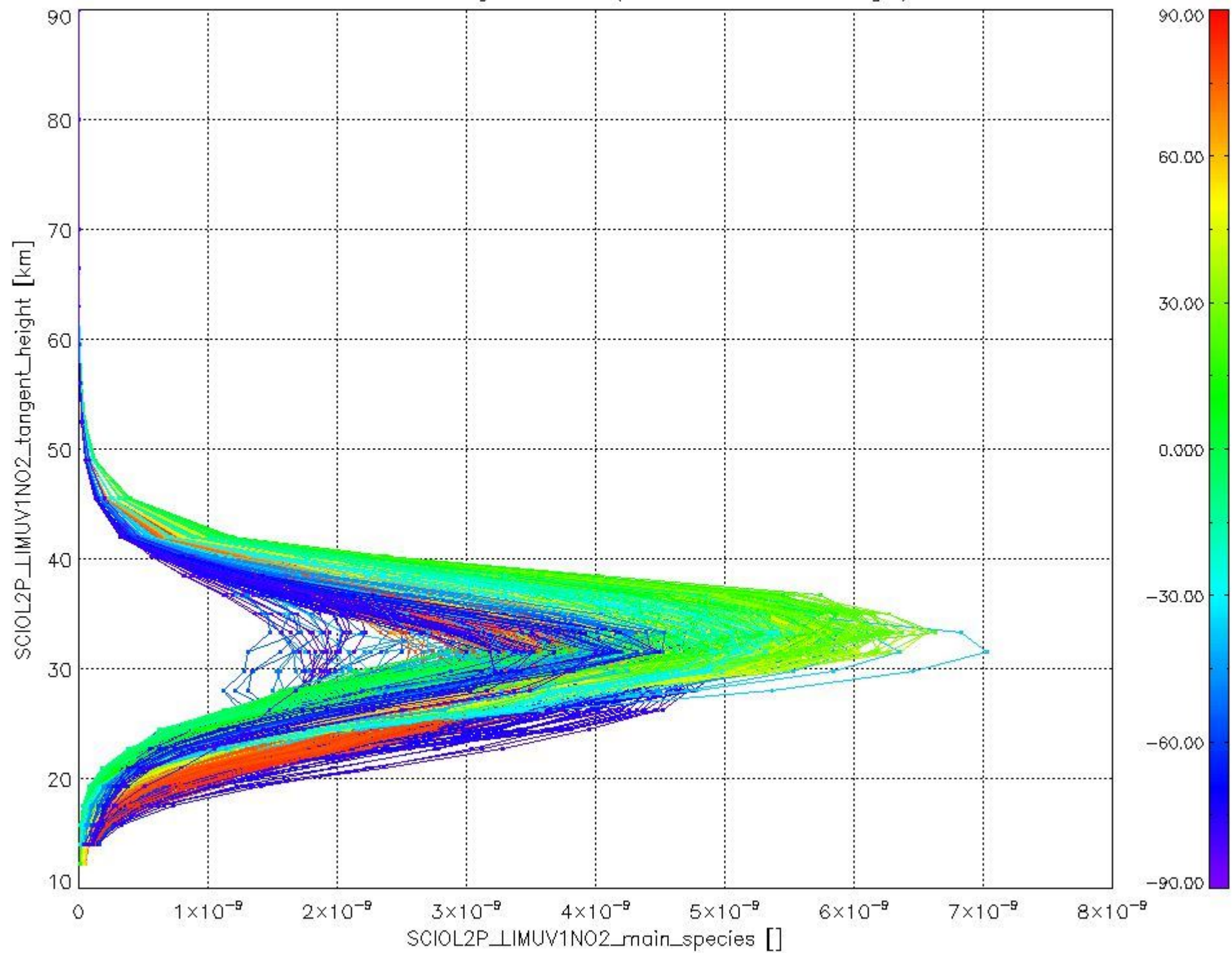
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

### 2.2.3.1 O3 (UV0)



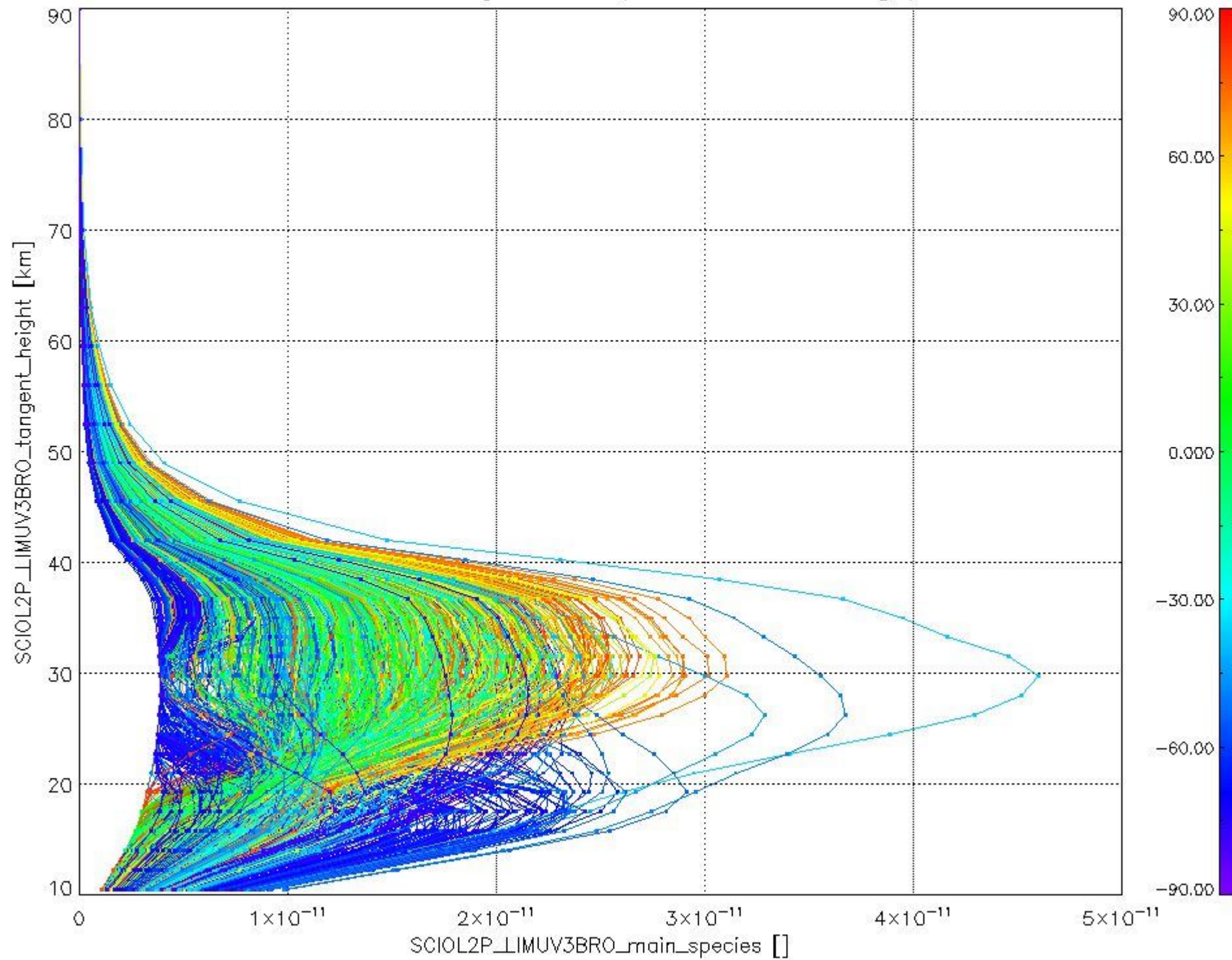
### 2.2.3.2 NO2 (UV1)

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



### 2.2.3.3 BrO (UV3)

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

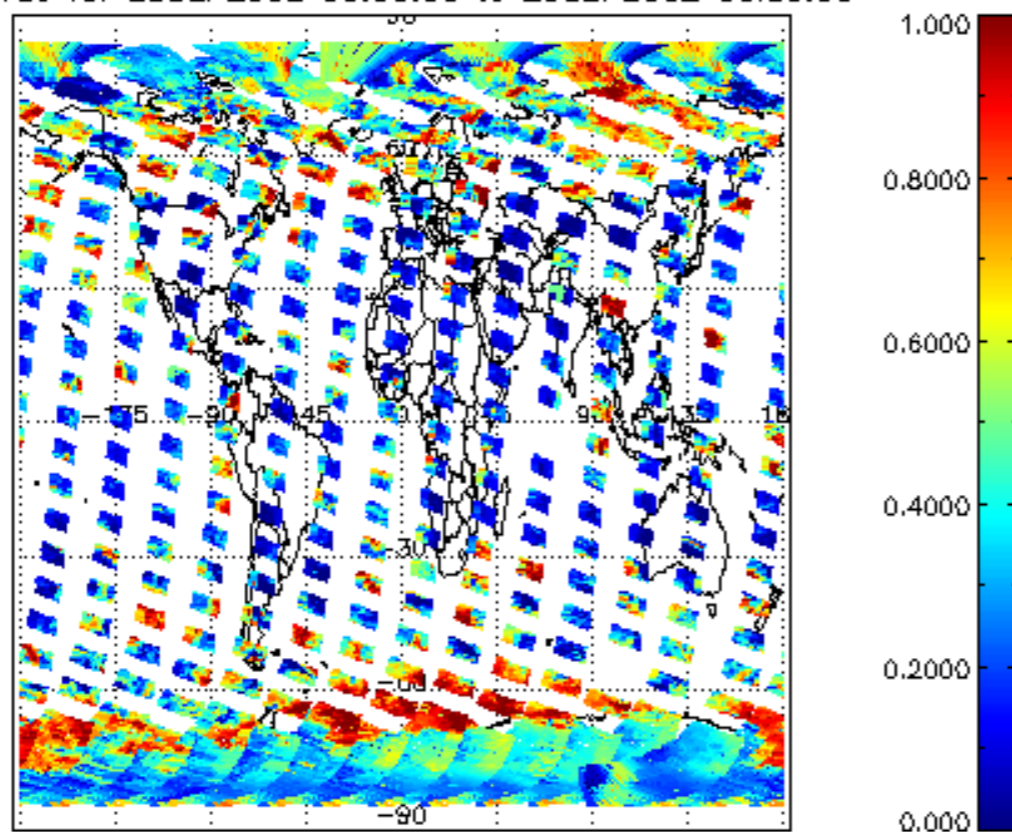


### 2.3 ADF monitoring

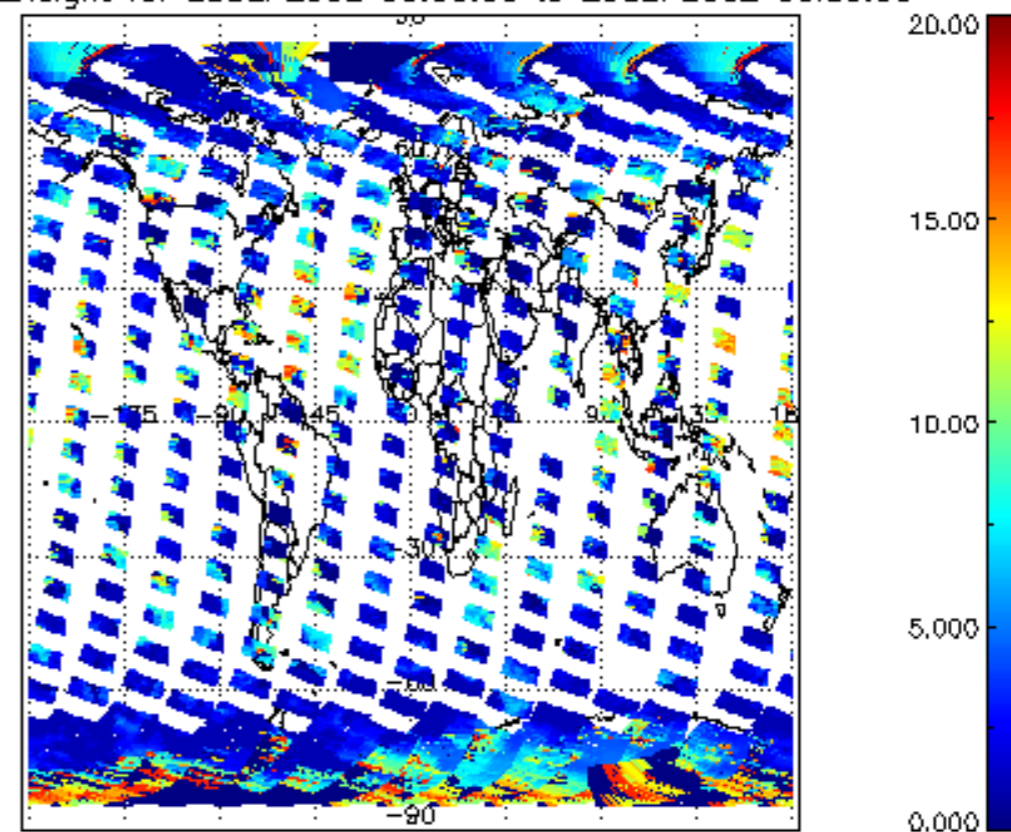
Number	ADF
	<b>IN_ (INITIALISATION_FILE)</b>
0	SCI_IN_AXNPDE20110201_120000_20020301_000000_20991231_235959
	<b>ECF (ECMWF_FILE)</b>
1	NOT USED
	<b>MF1 (M_FACTOR_FILE)</b>
2	SCI_MF1_AXNIEC20100218_135510_20020927_150120_20020929_150120
3	SCI_MF1_AXNIEC20100218_135612_20020928_161019_20020930_161019



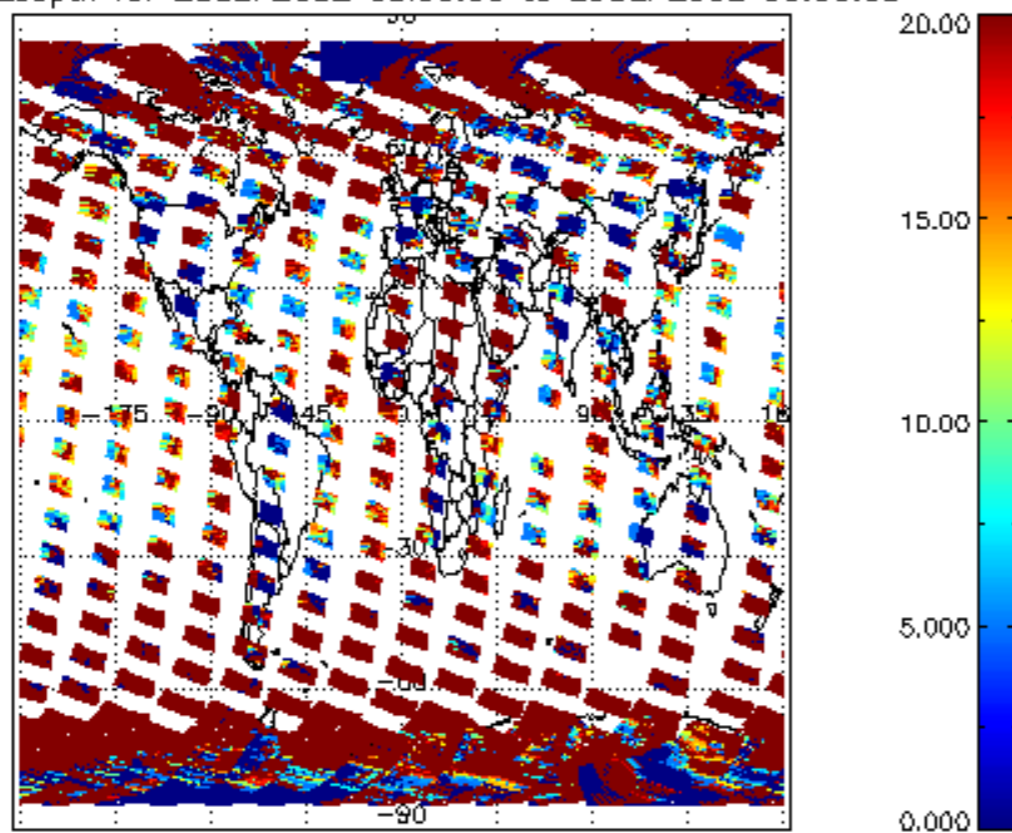
cl\_frac for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



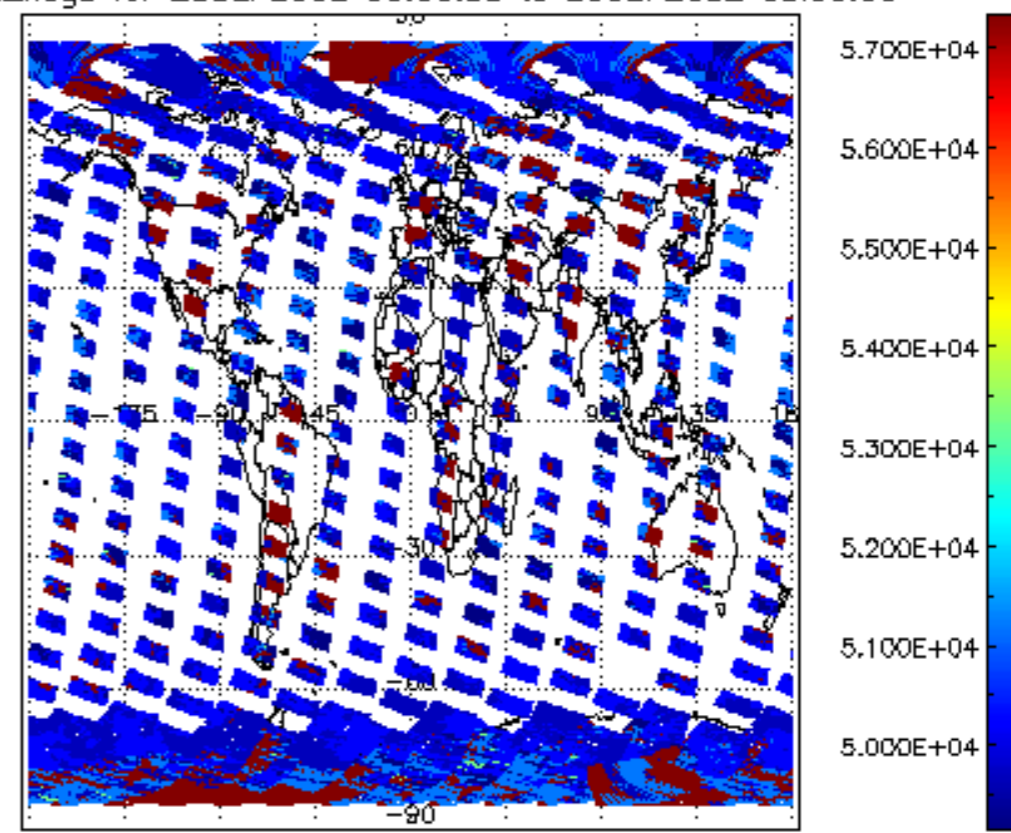
cl\_top\_height for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

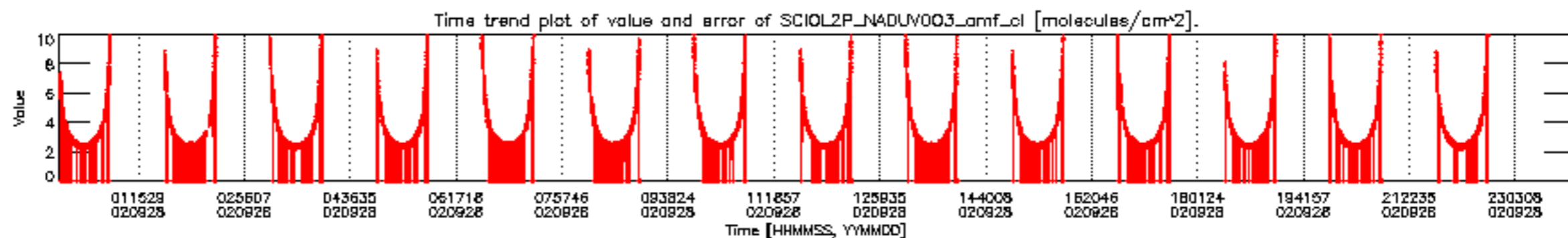
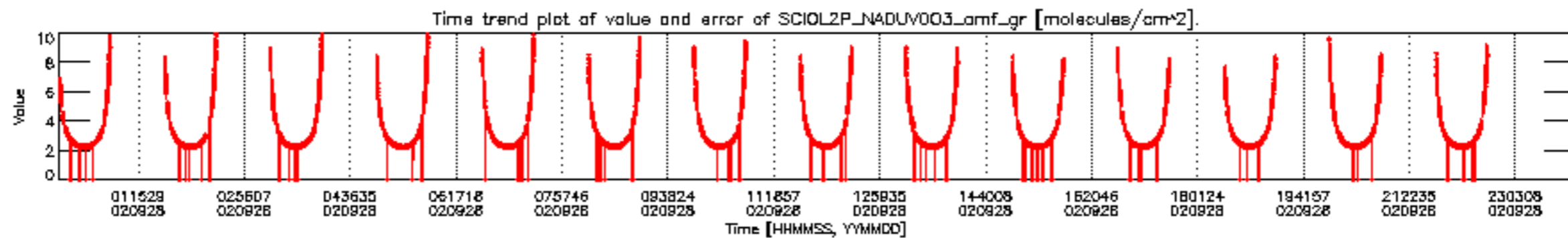
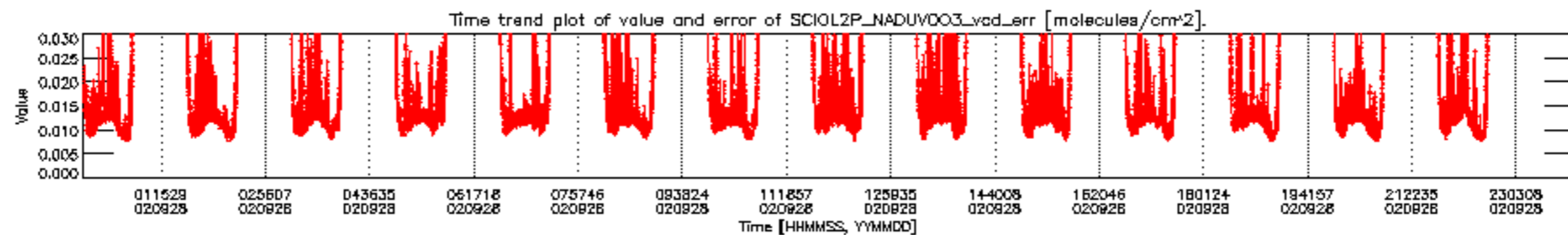
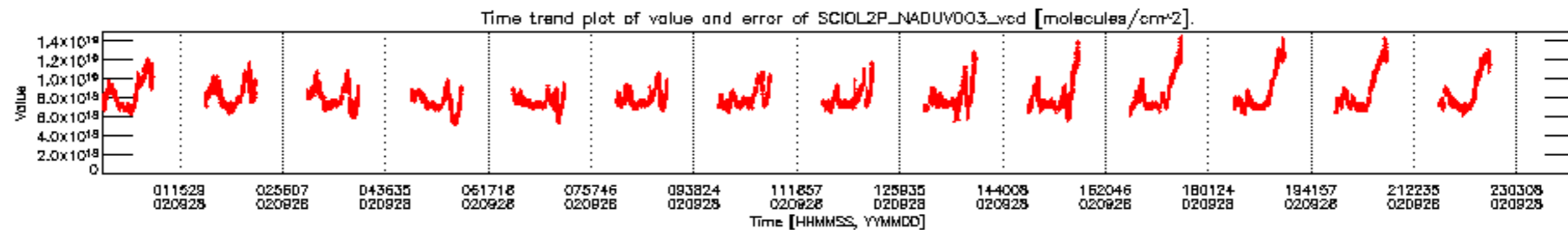


cl\_opt\_depth for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



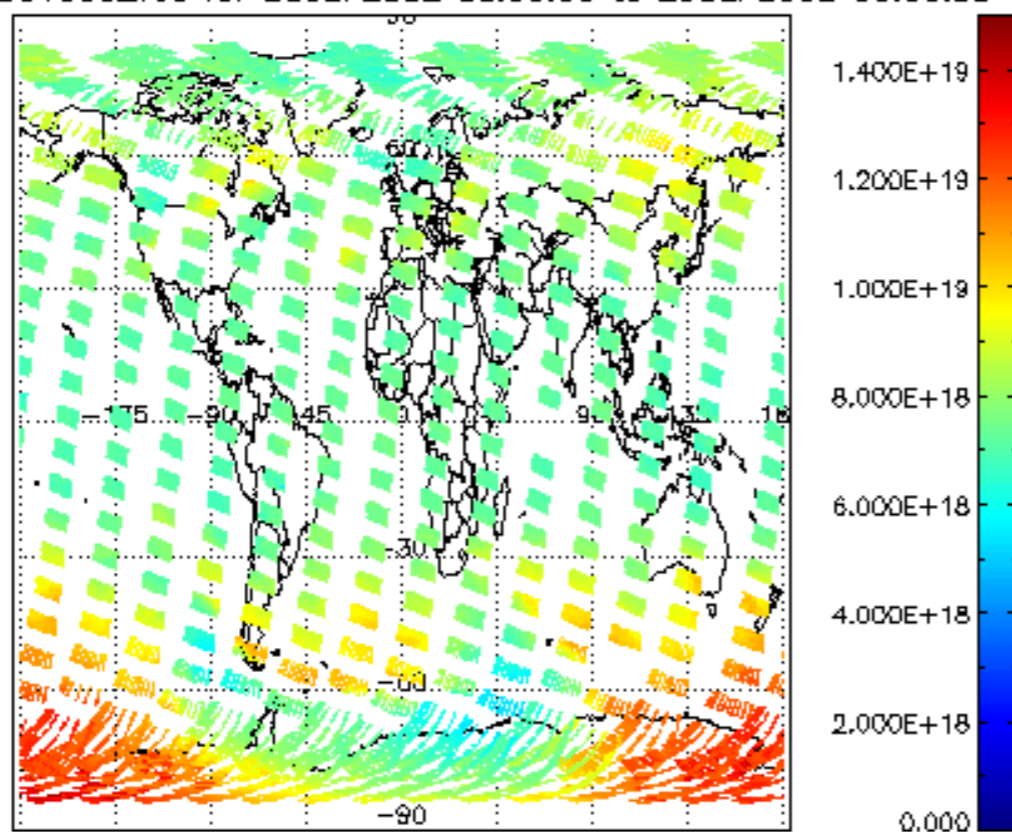
cloud\_flags for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



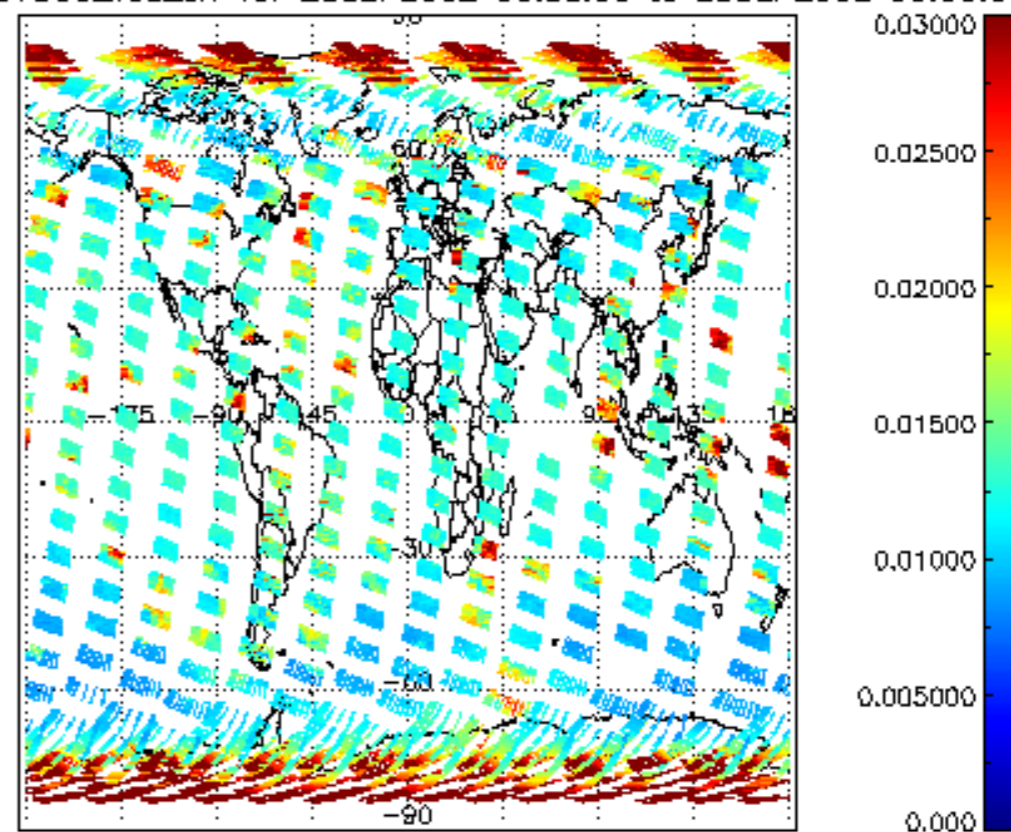




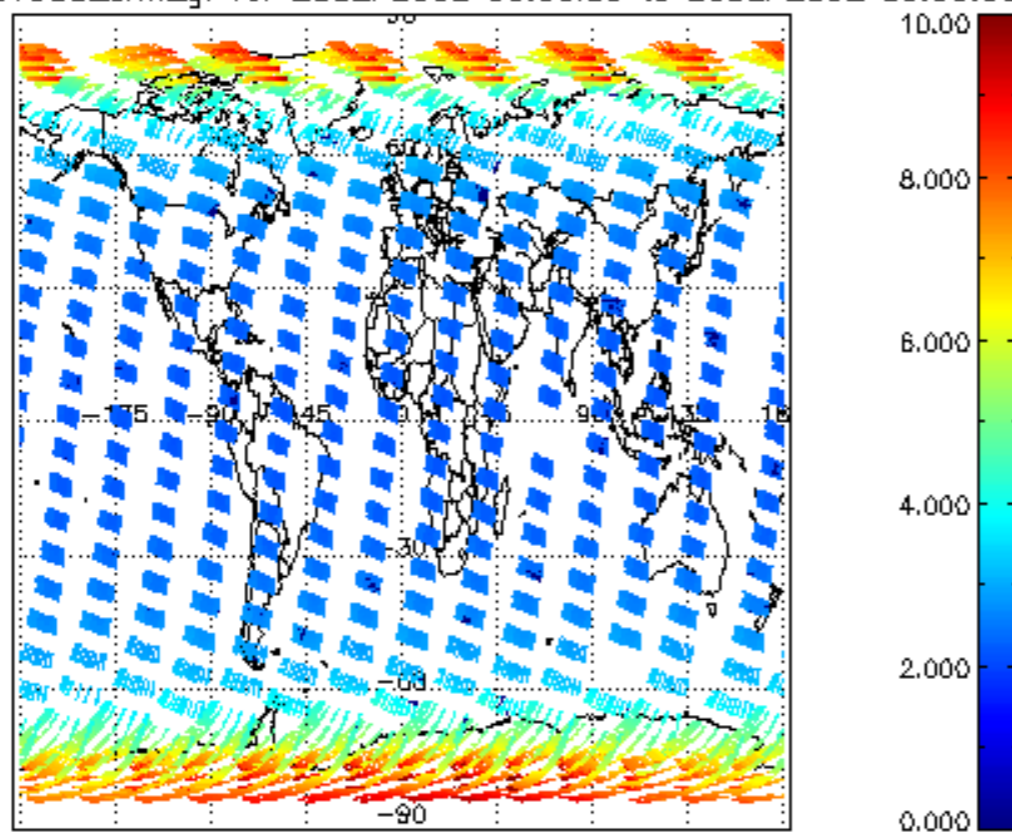
SCIOL2P\_NADUV003\_vcd for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



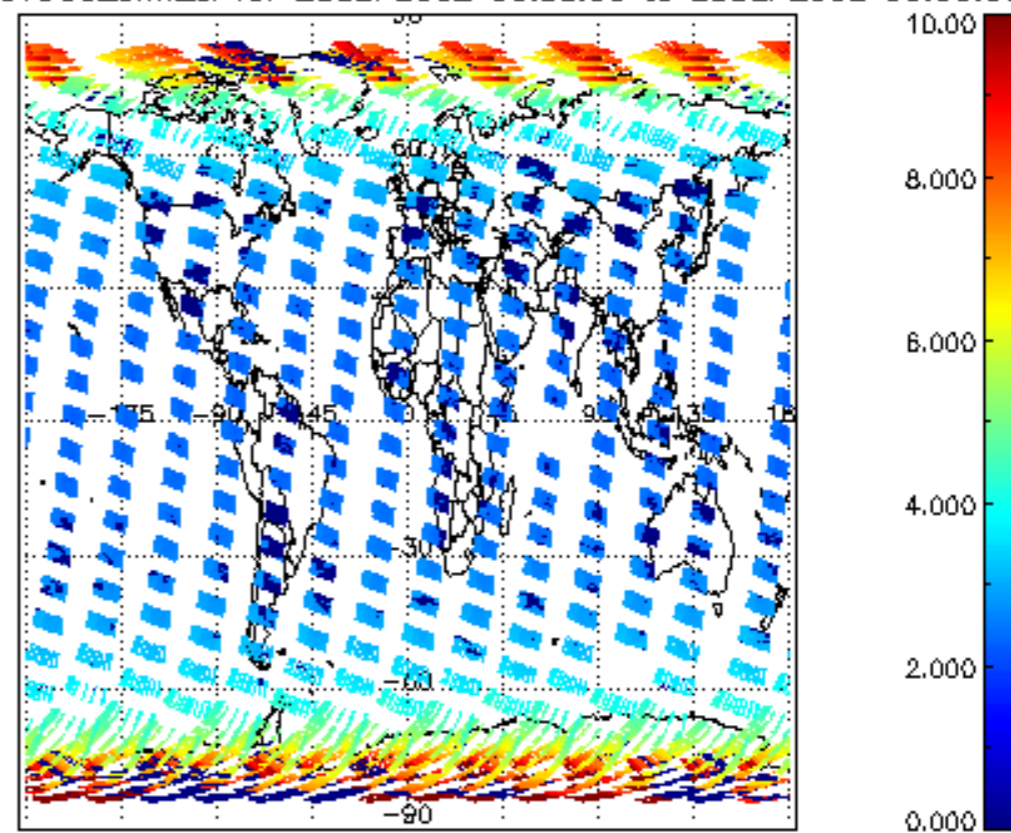
SCIOL2P\_NADUV003\_vcd\_err for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

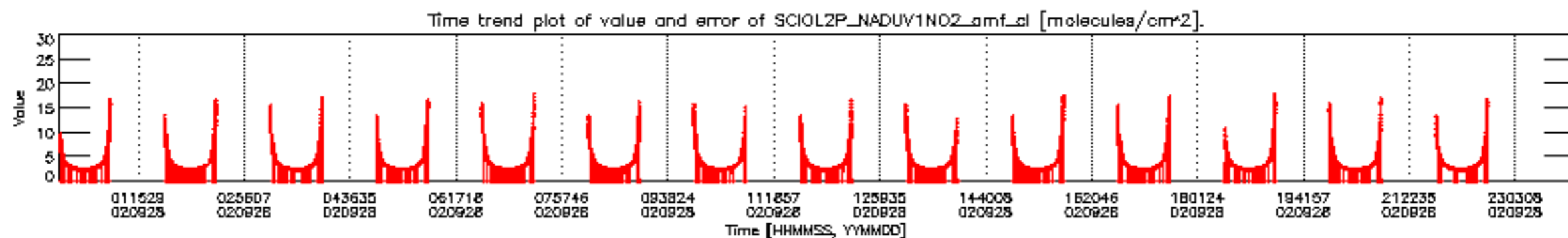
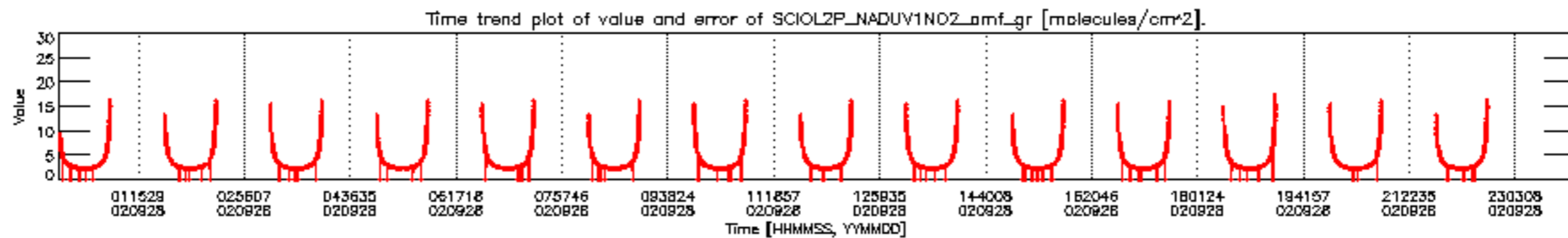
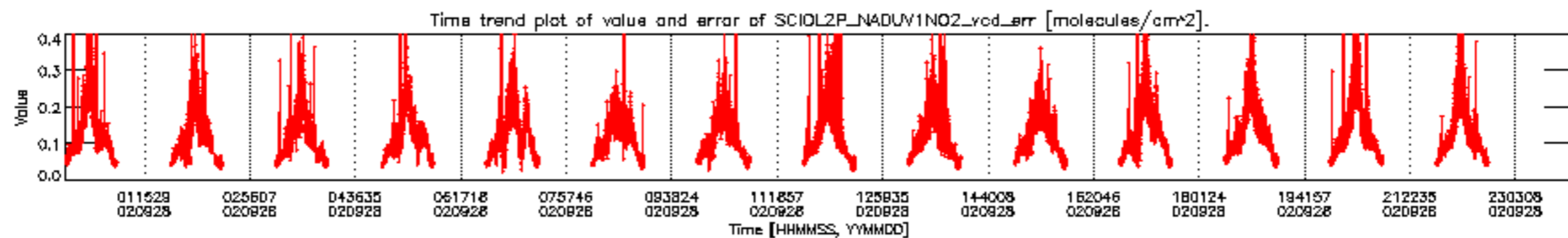
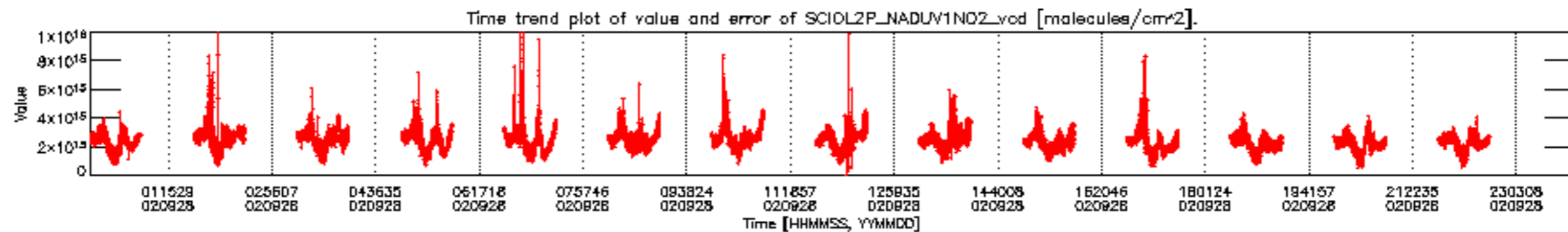


SCIOL2P\_NADUV003\_amf\_gr for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

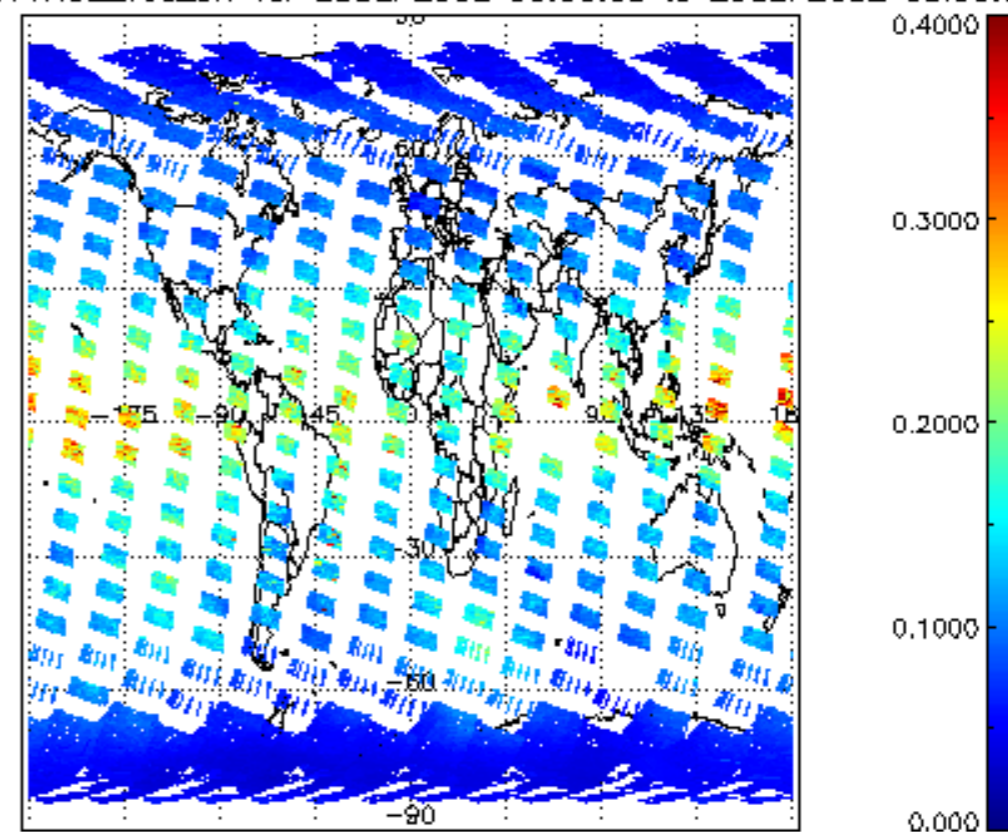
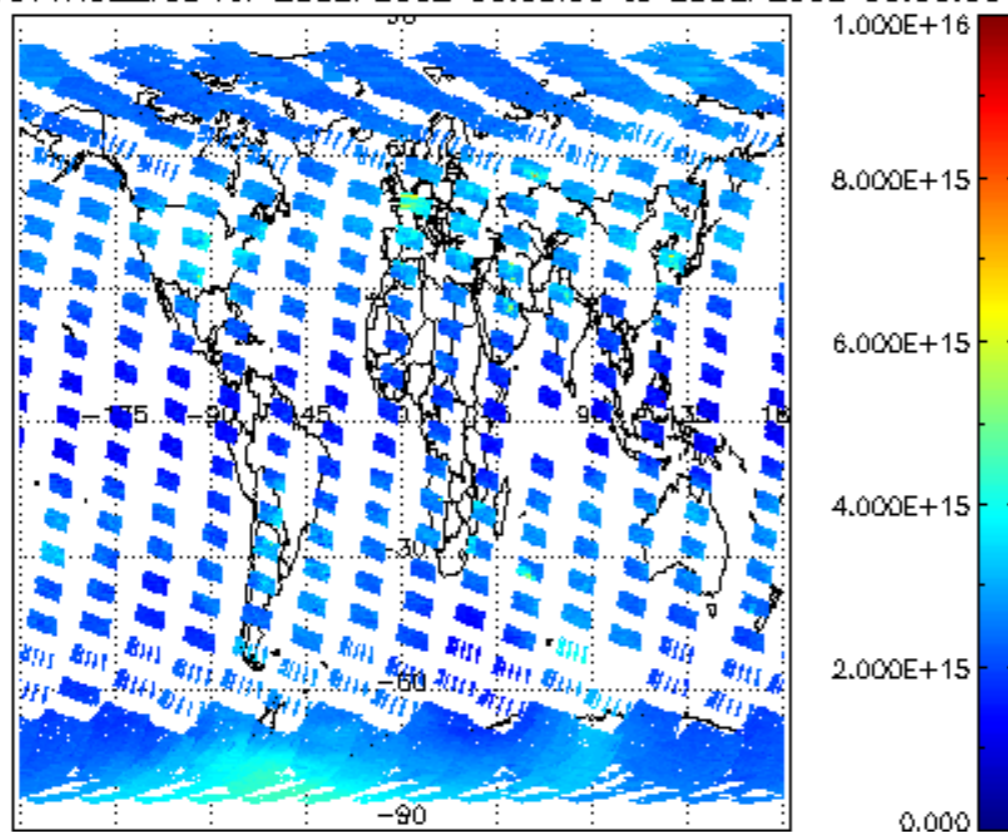


SCIOL2P\_NADUV003\_amf\_cl for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

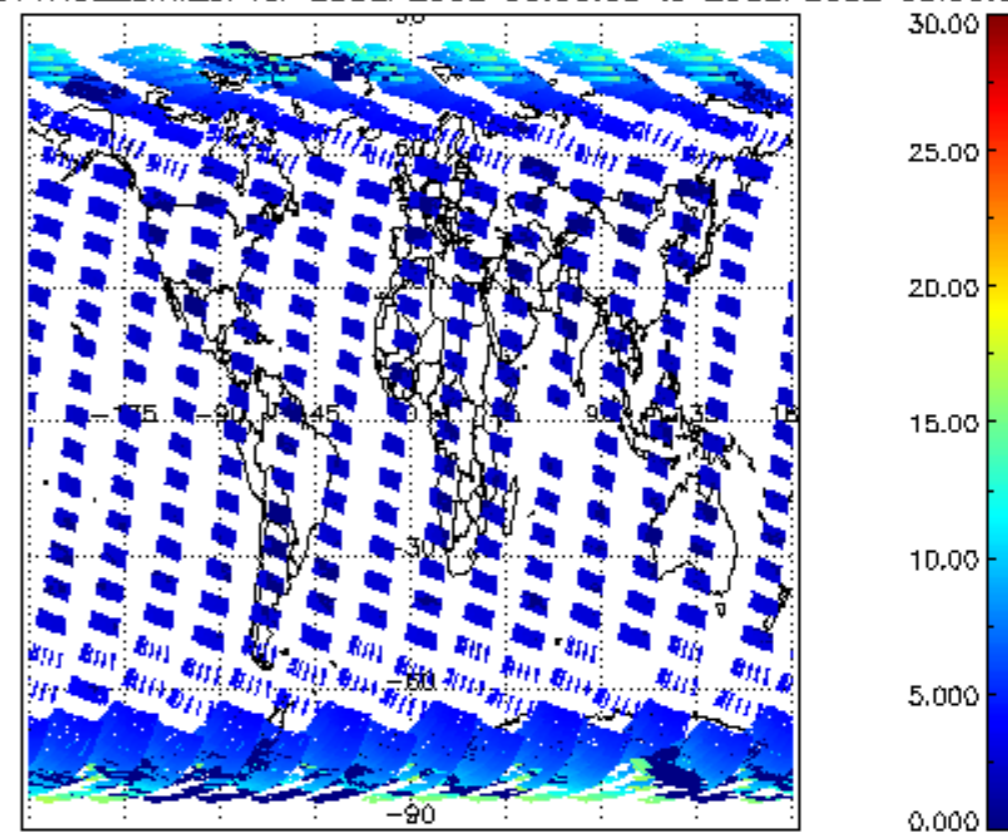
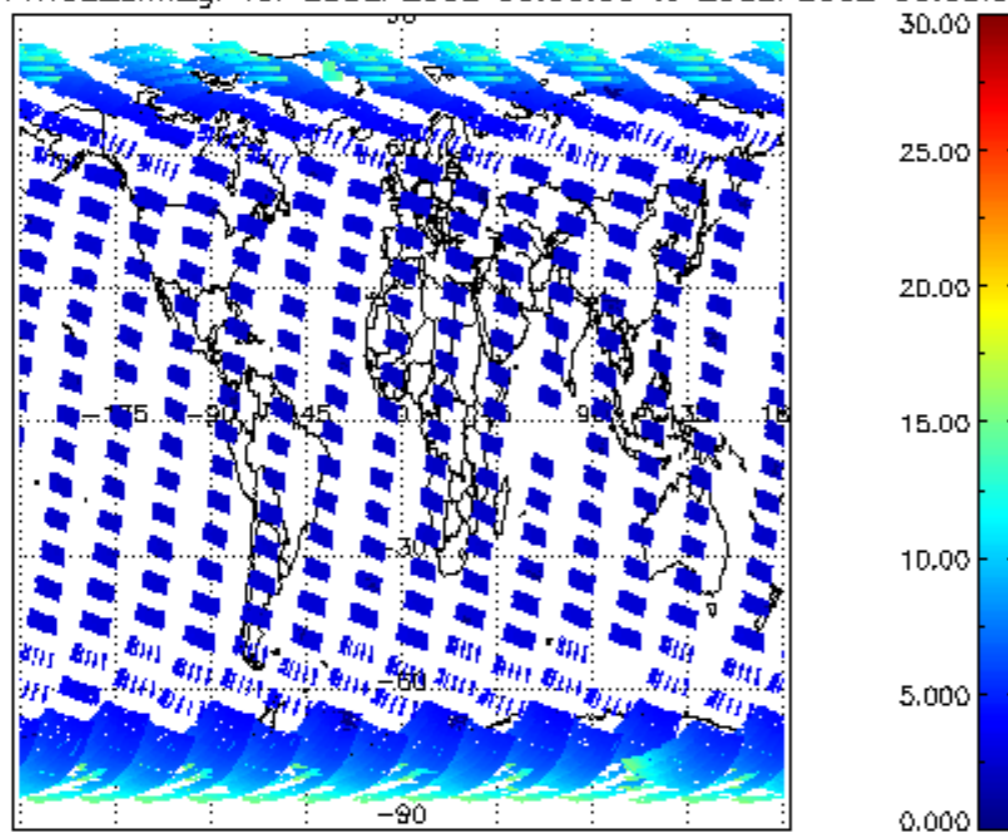




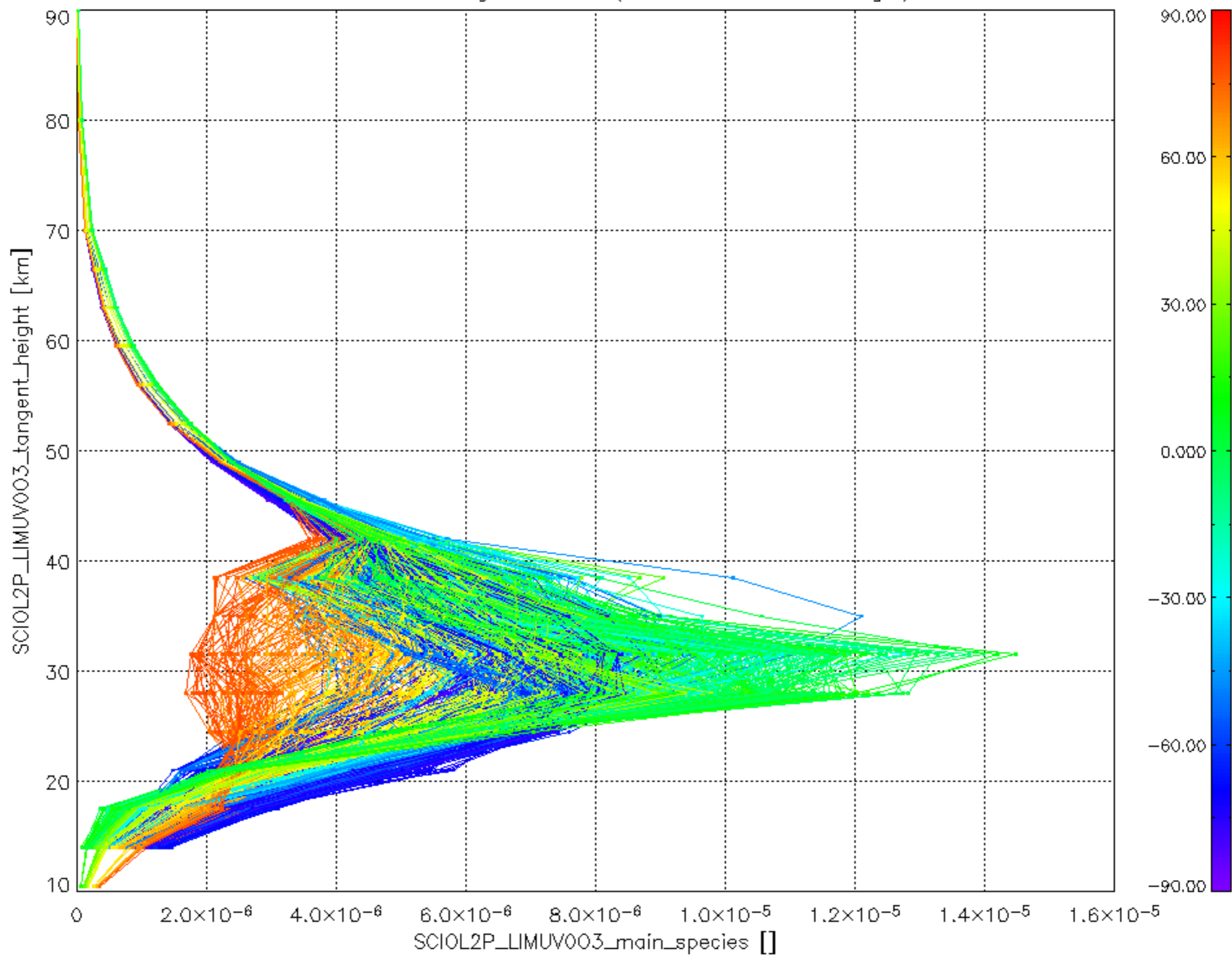
SCIOL2P\_NADUV1NO2\_vcd for 28SEP2002 00:00:00 to 29SEP2002 00:00:00    iCIOL2P\_NADUV1NO2\_vcd\_err for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



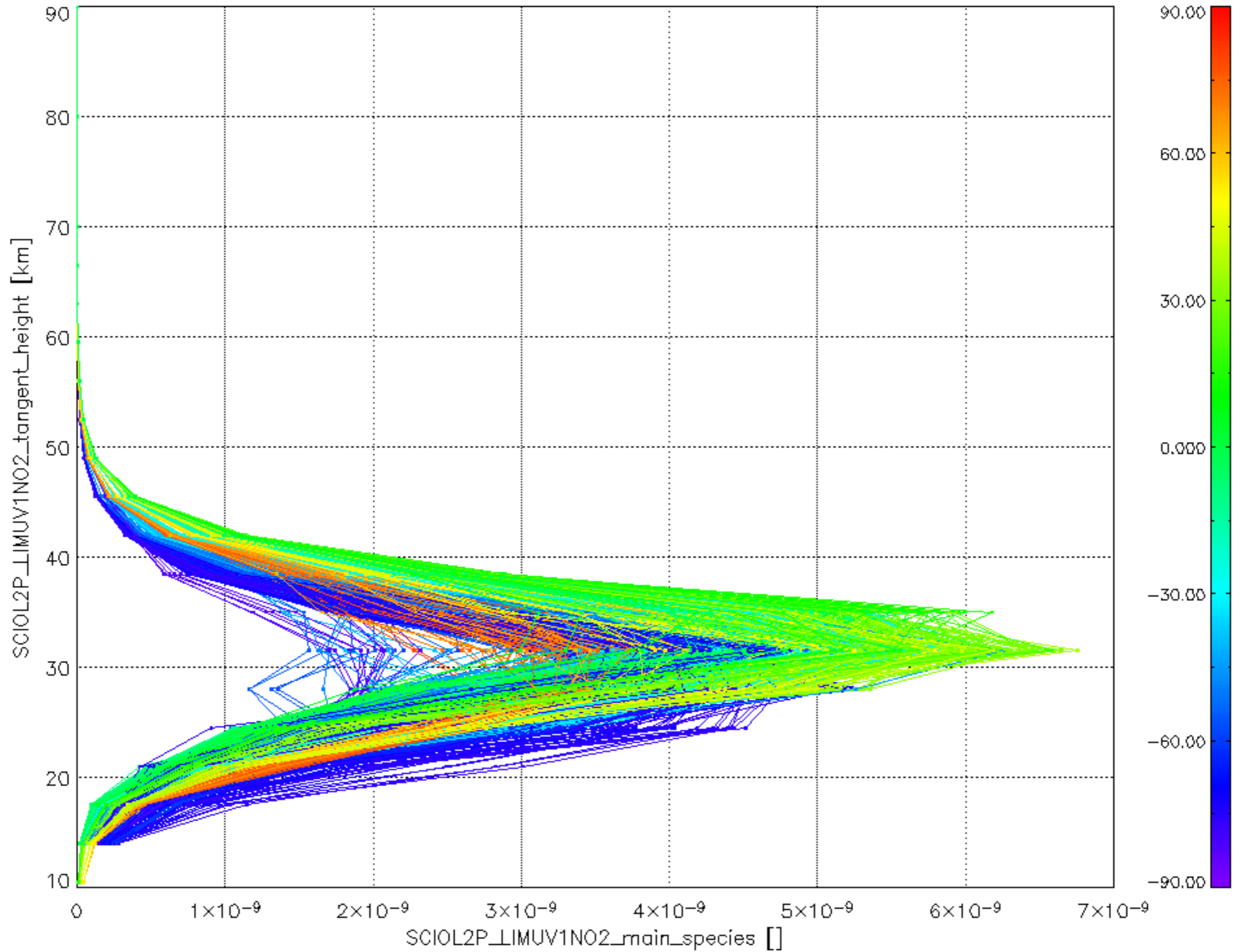
iCIOL2P\_NADUV1NO2\_amf\_gr for 28SEP2002 00:00:00 to 29SEP2002 00:00:00    iCIOL2P\_NADUV1NO2\_amf\_cl for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



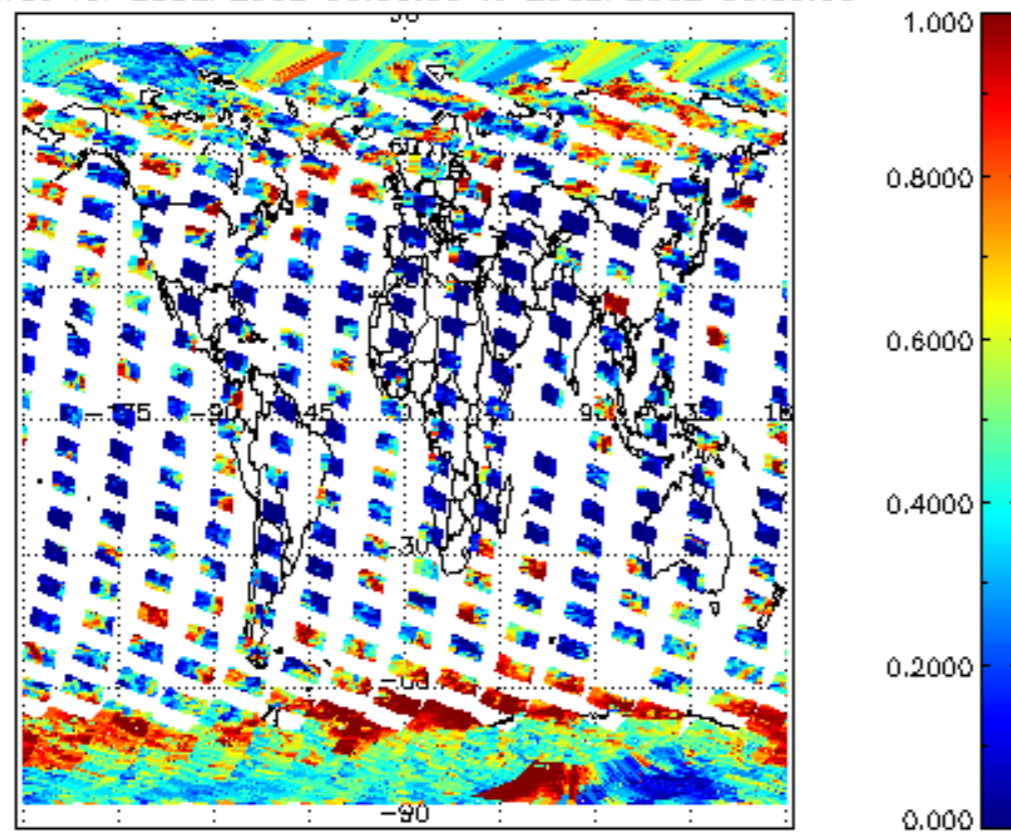
Plot of SCIOL2P\_LIMUV003\_main\_species.tang\_vmr vs. tangent height.  
 Colours indicate tangent latitude (see colour bar on the right).



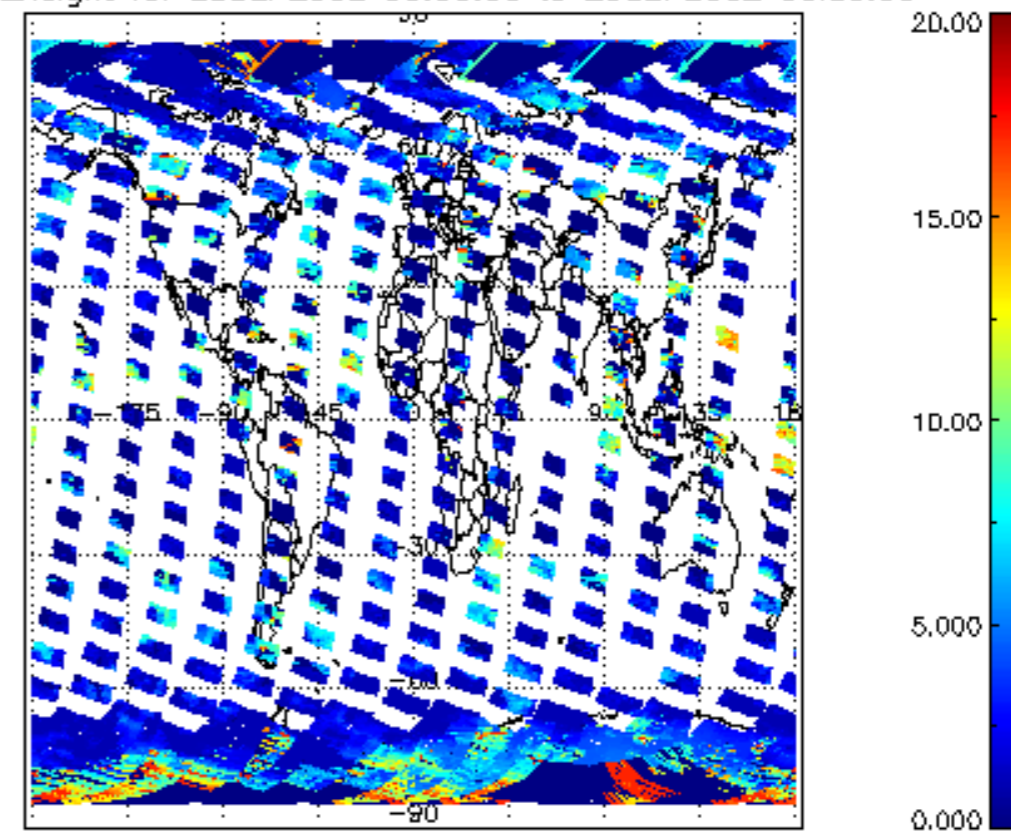
Plot of SCIOL2P\_LIMUV1N02\_main\_species.tang\_vmr vs. tangent height.  
 Colours indicate tangent latitude (see colour bar on the right).



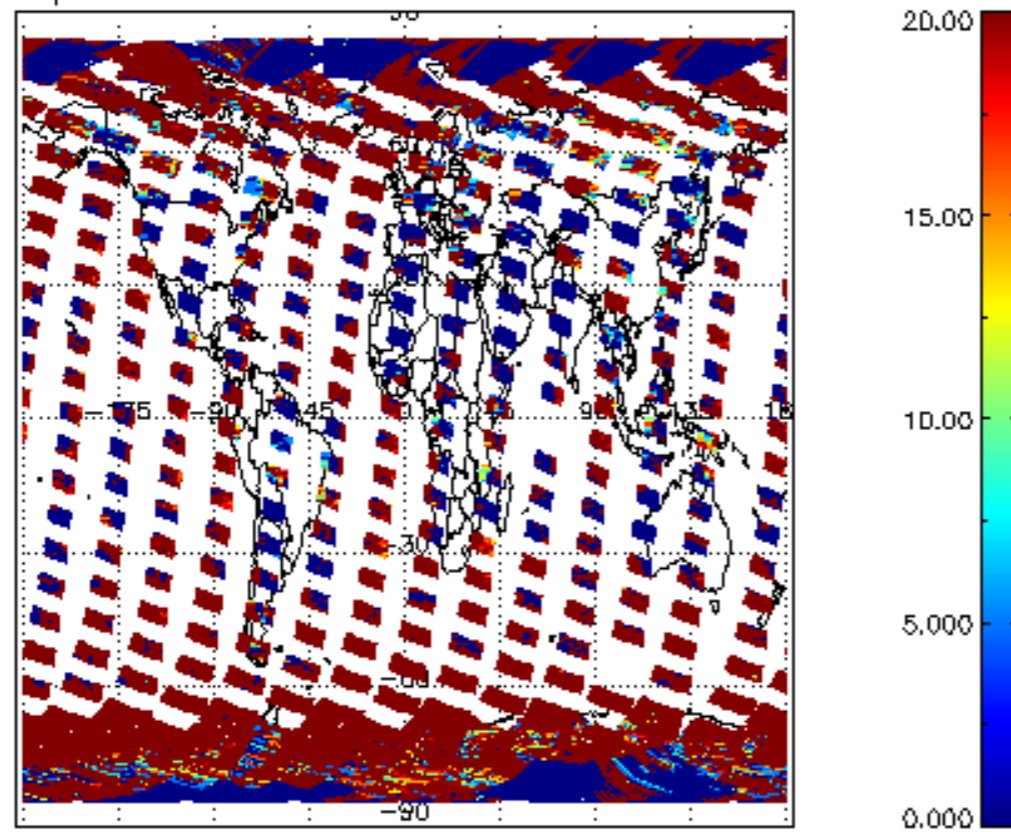
cl\_frac for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



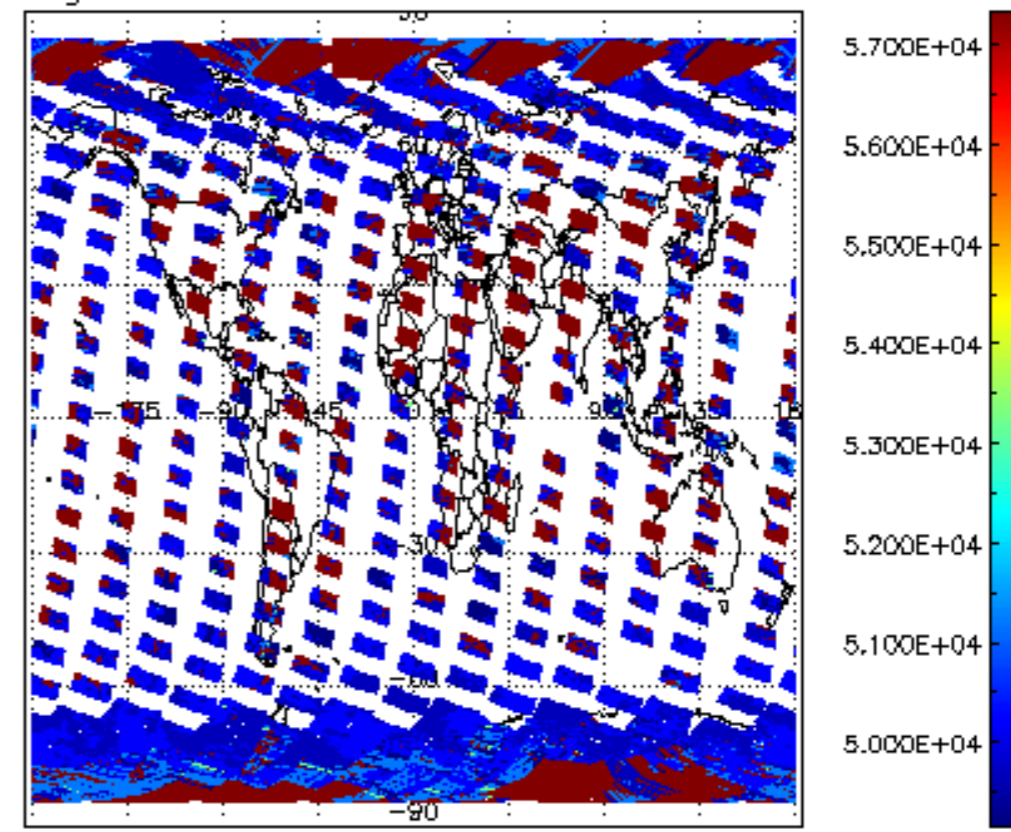
cl\_top\_height for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

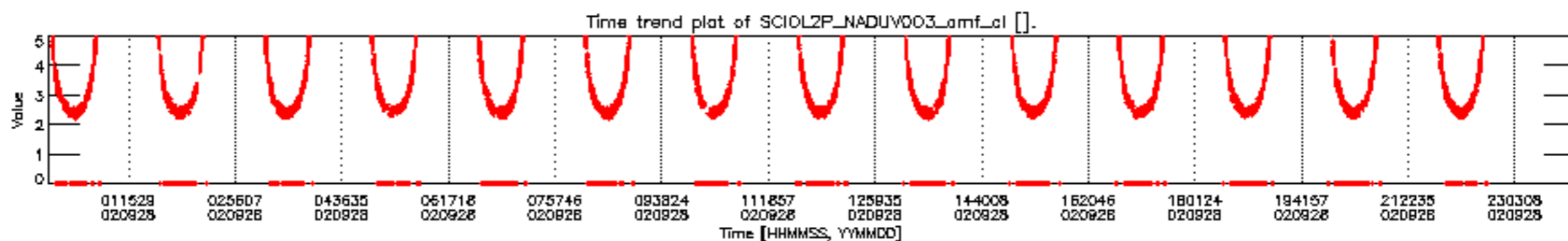
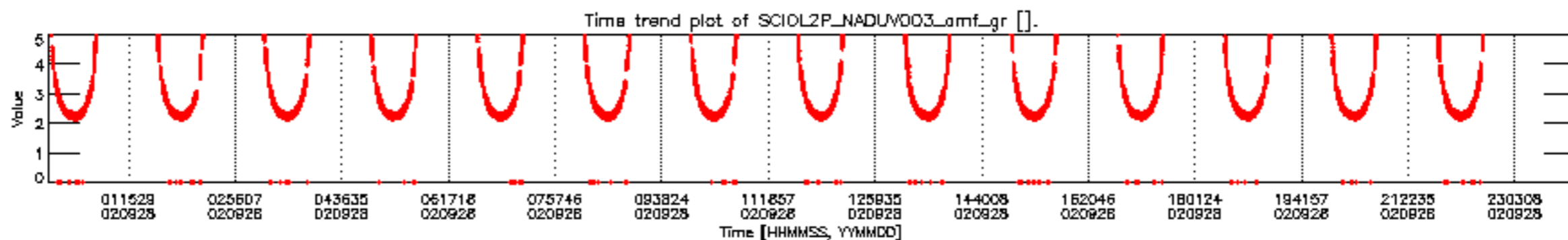
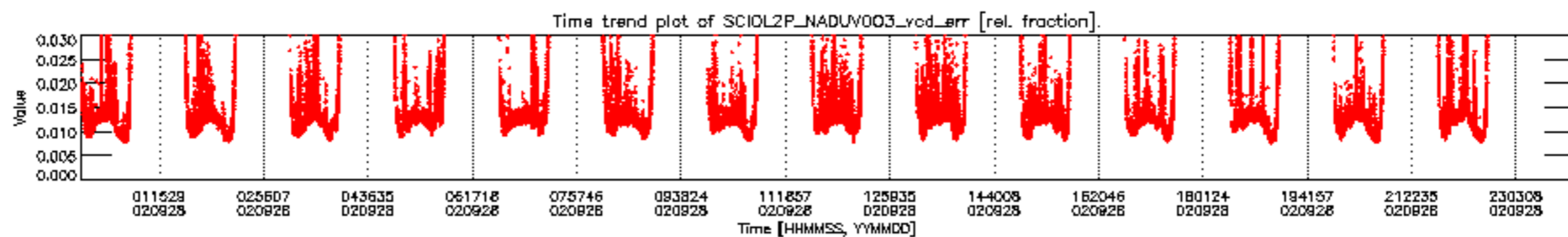
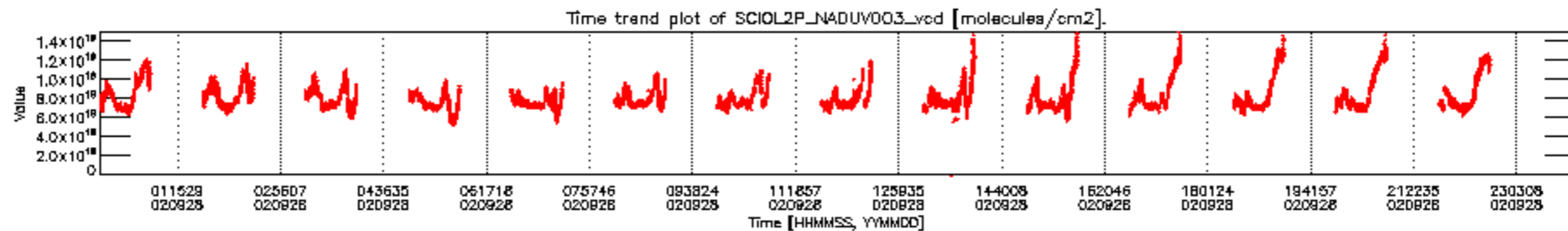


cl\_opt\_depth for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

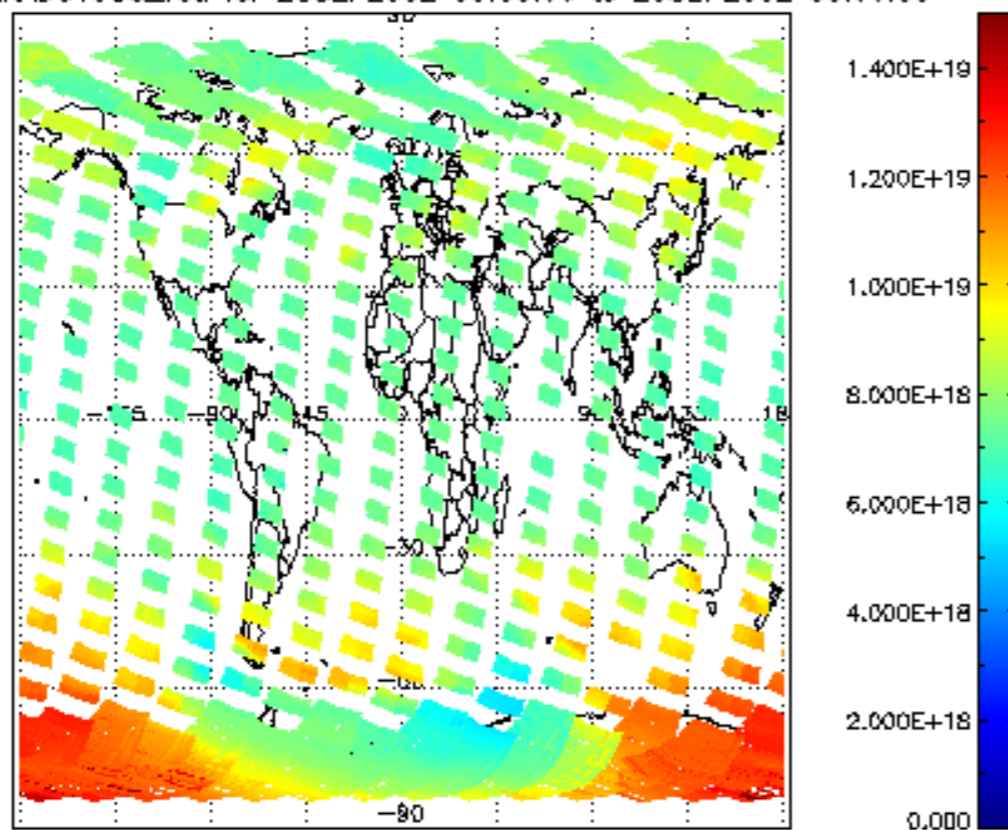


cloud\_flags for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

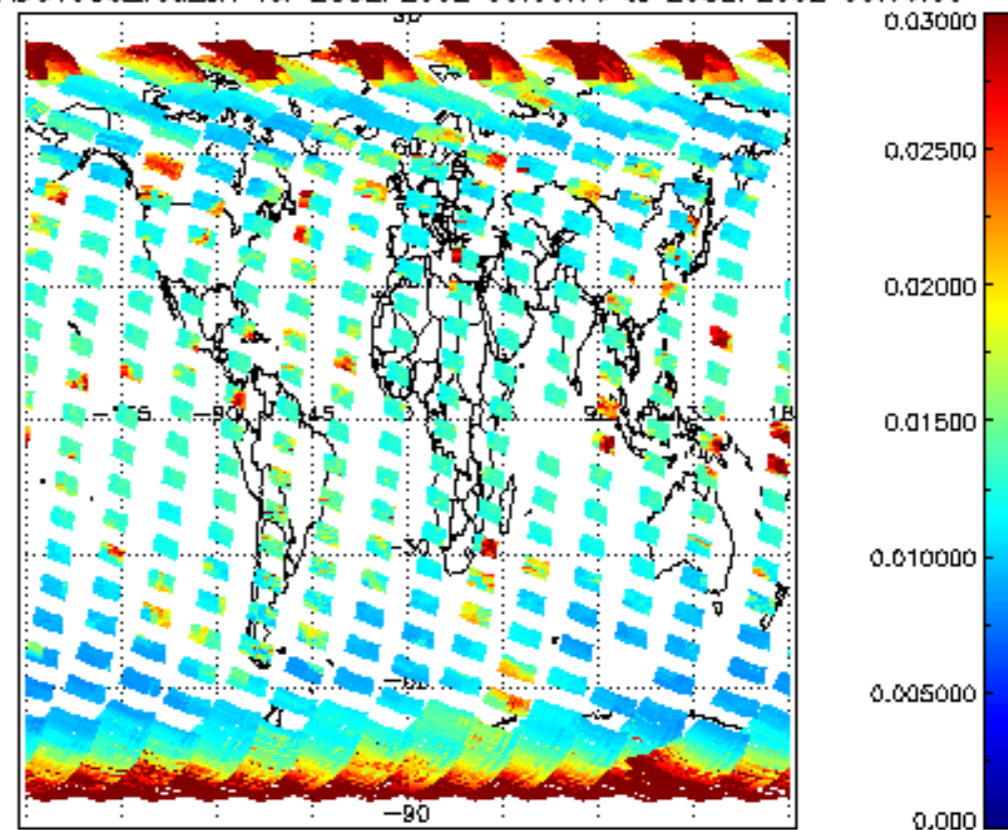




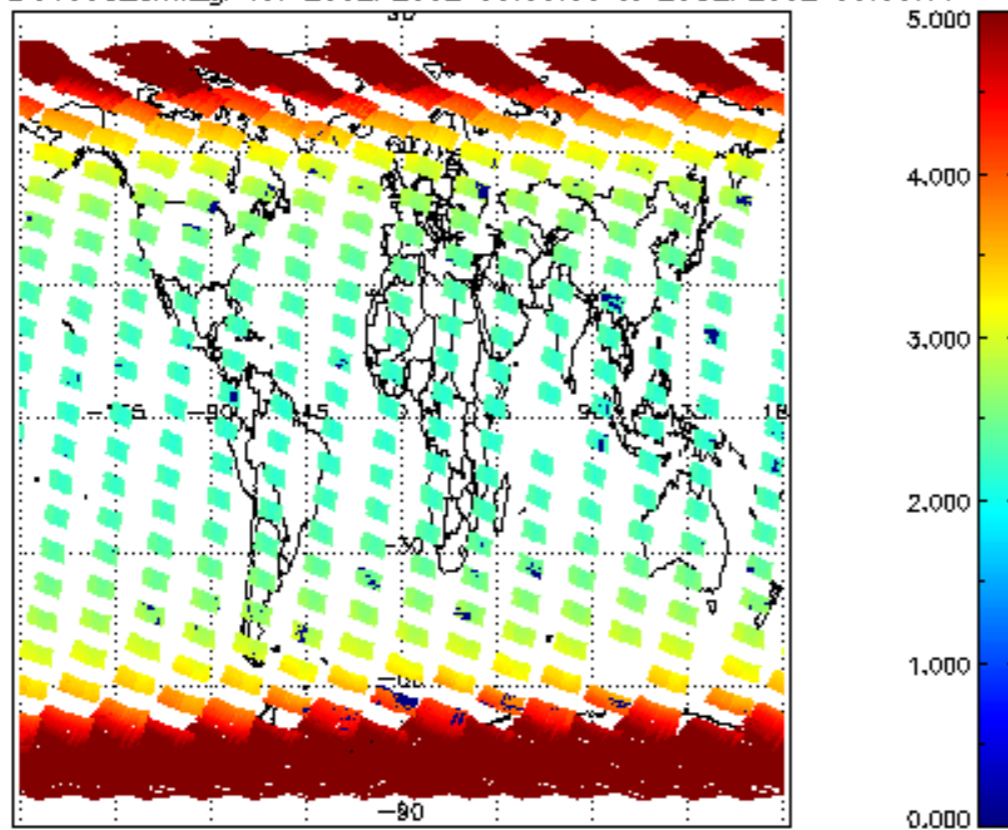
SCIOL2P\_NADUV003\_vcd for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



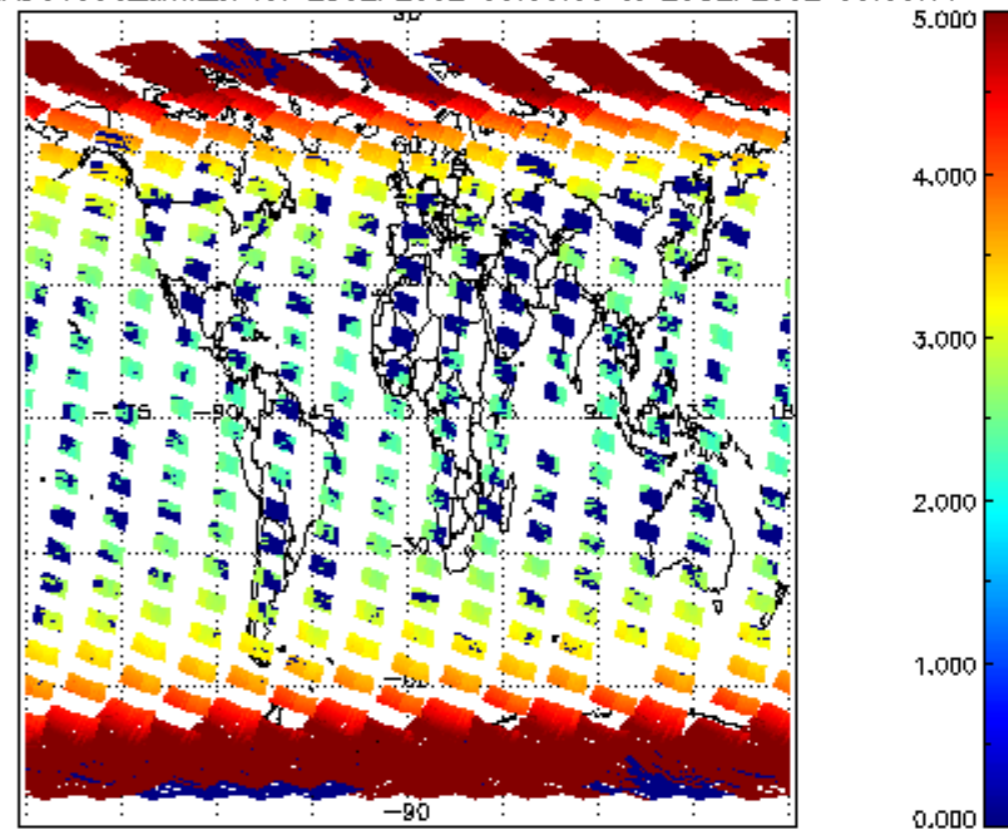
SCIOL2P\_NADUV003\_vcd\_err for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



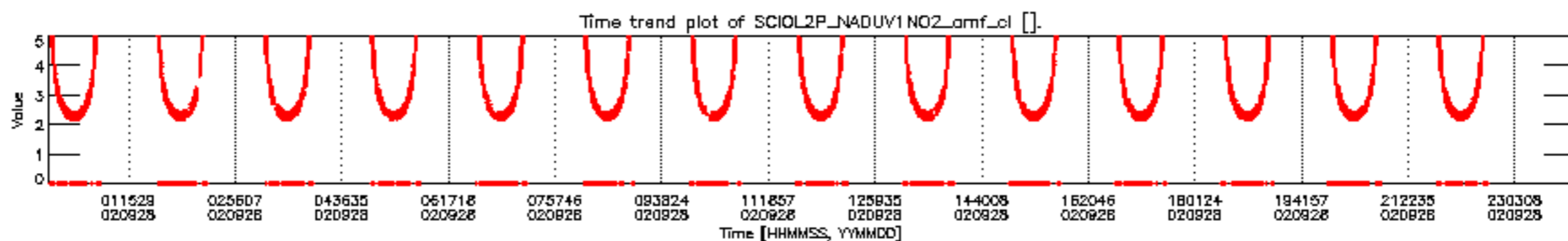
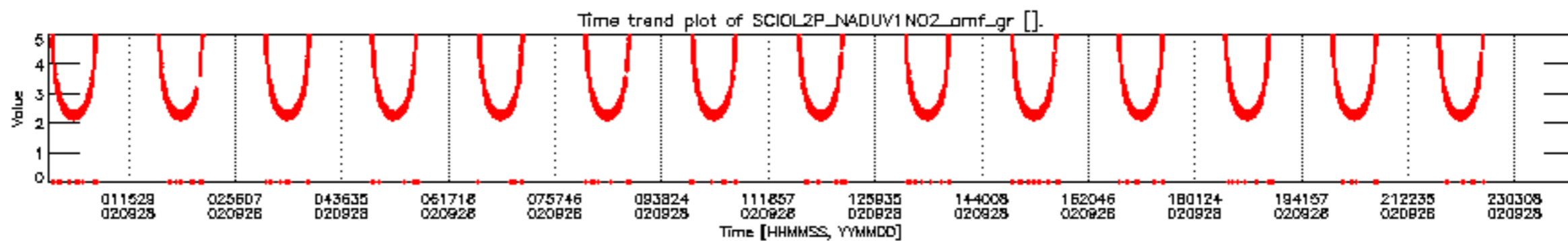
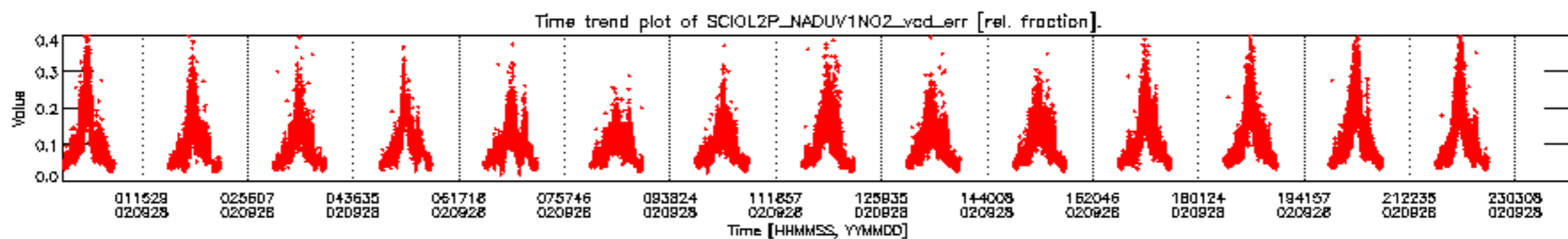
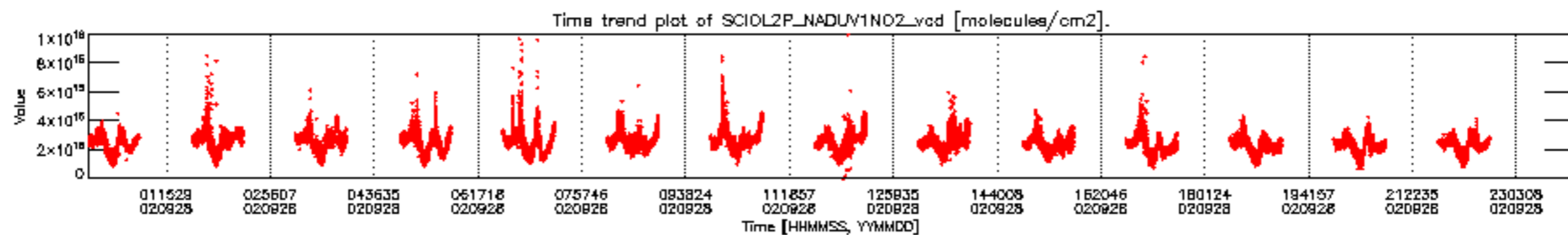
SCIOL2P\_NADUV003\_amf\_gr for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



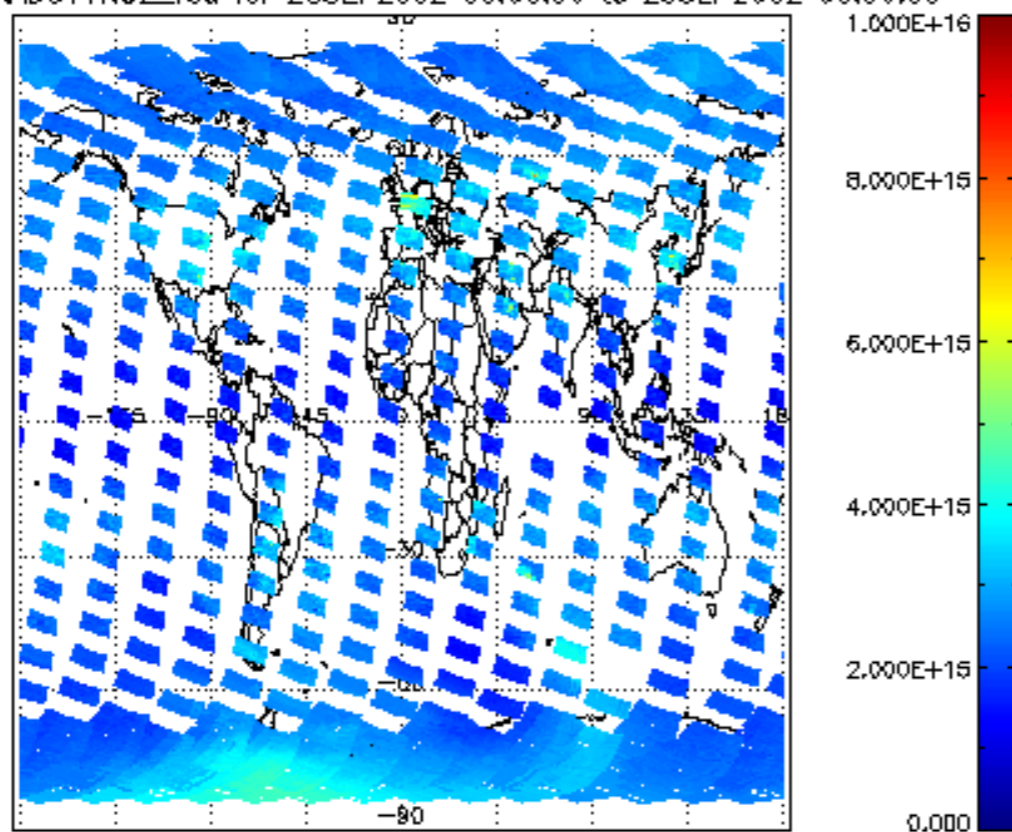
SCIOL2P\_NADUV003\_amf\_cl for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



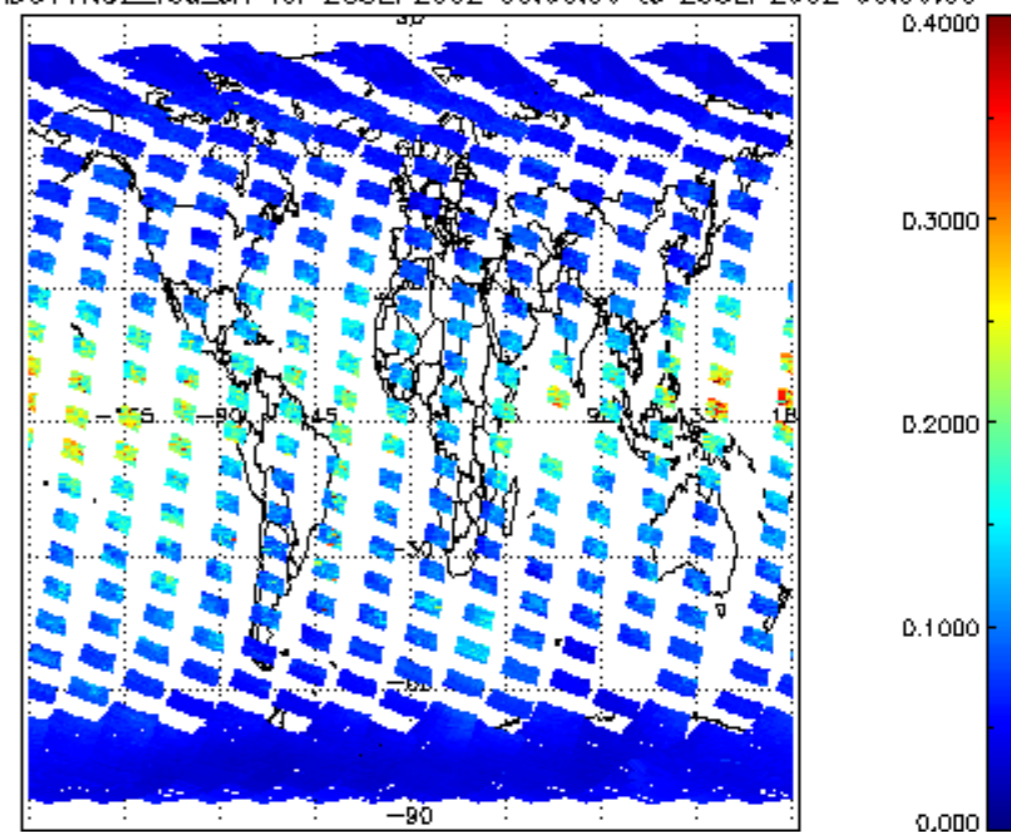




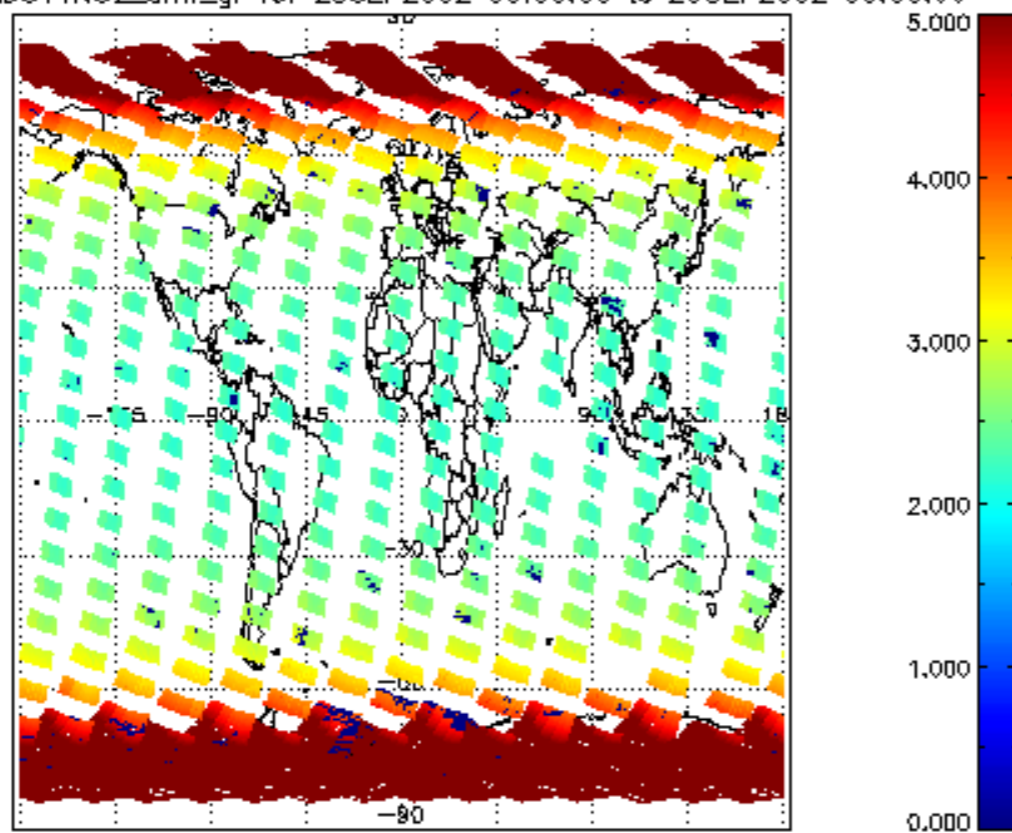
SCIOL2P\_NADUV1N02\_vcd for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



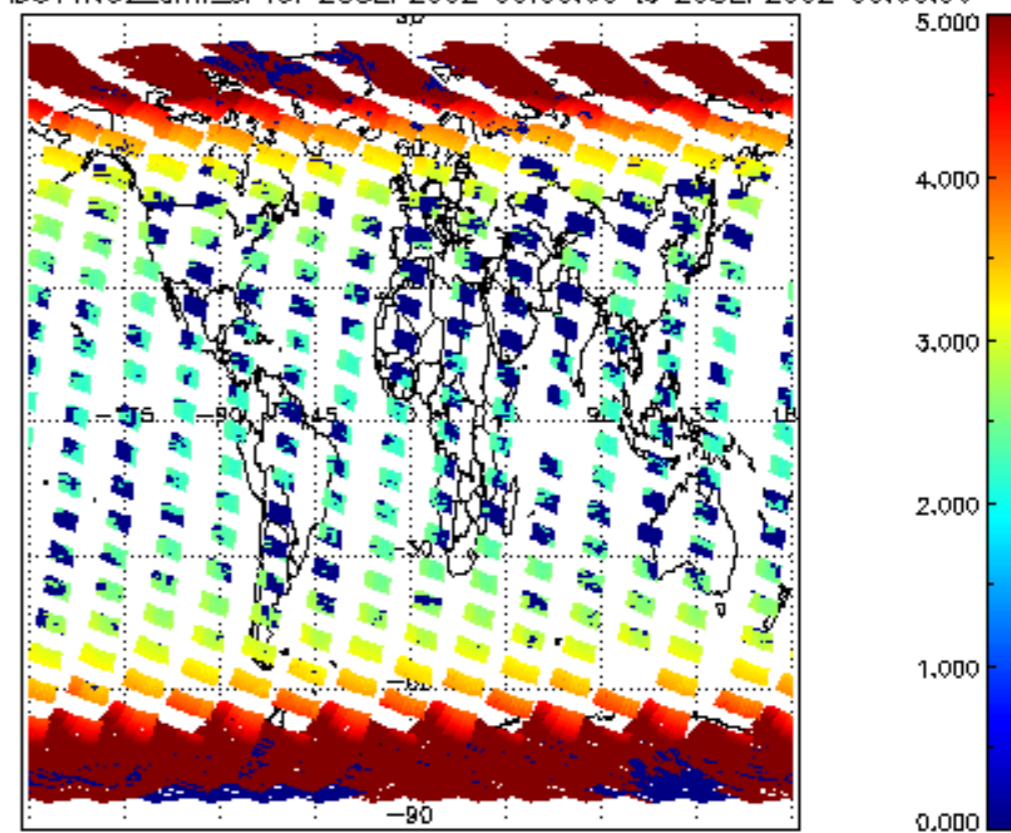
SCIOL2P\_NADUV1N02\_vcd\_err for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

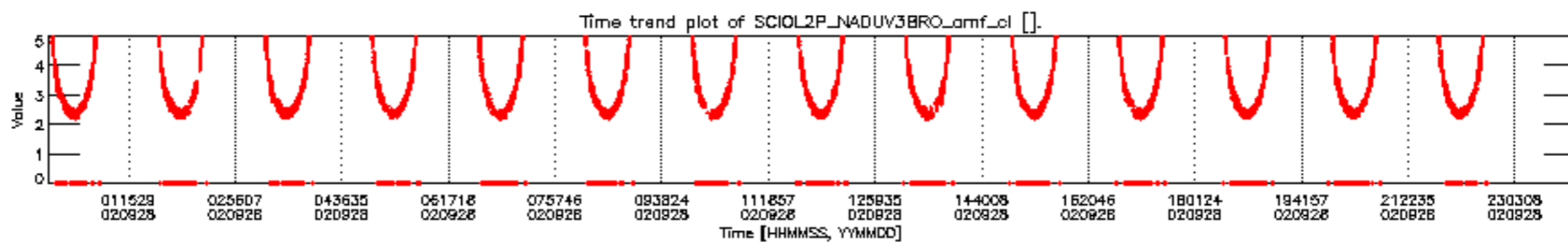
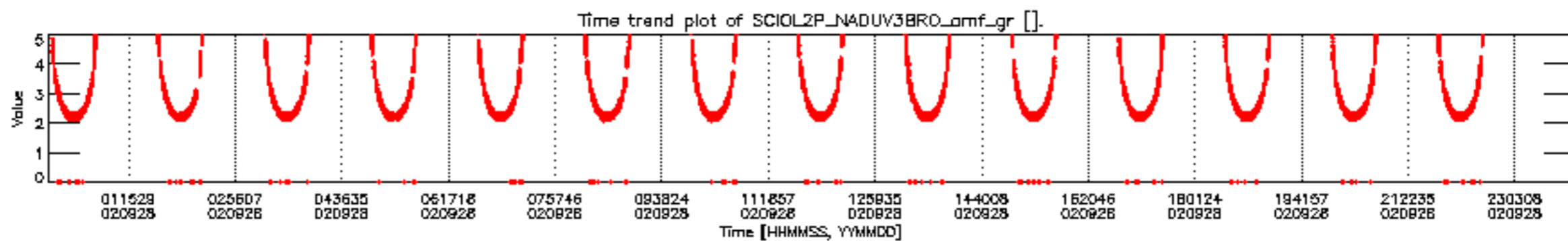
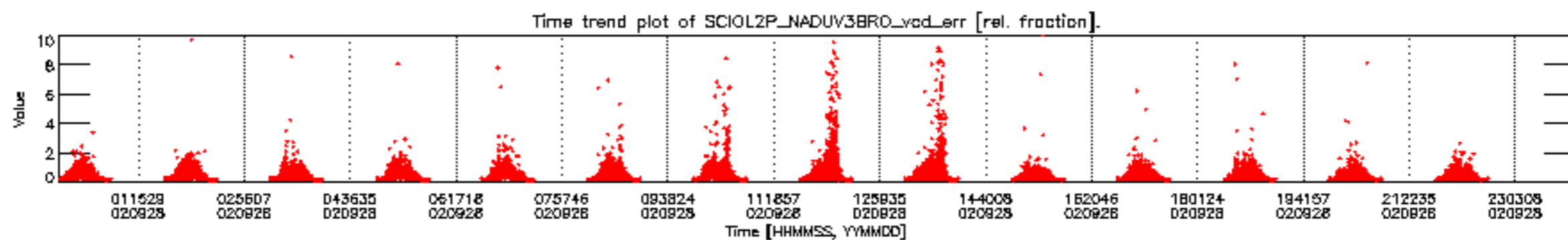
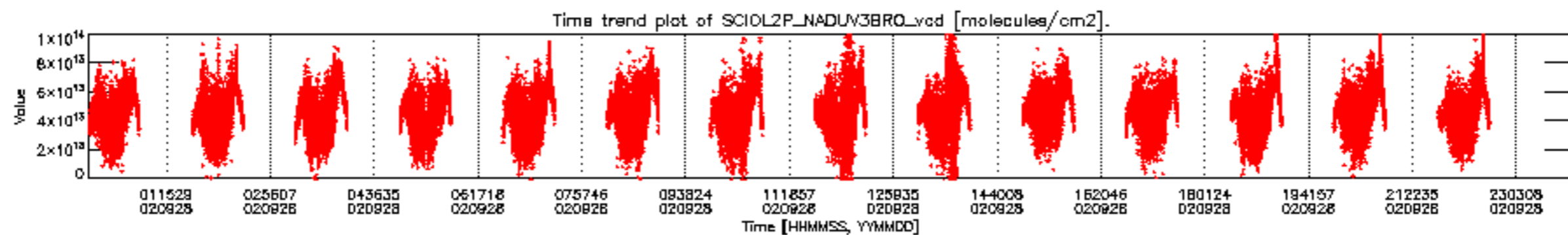


SCIOL2P\_NADUV1N02\_amf\_gr for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

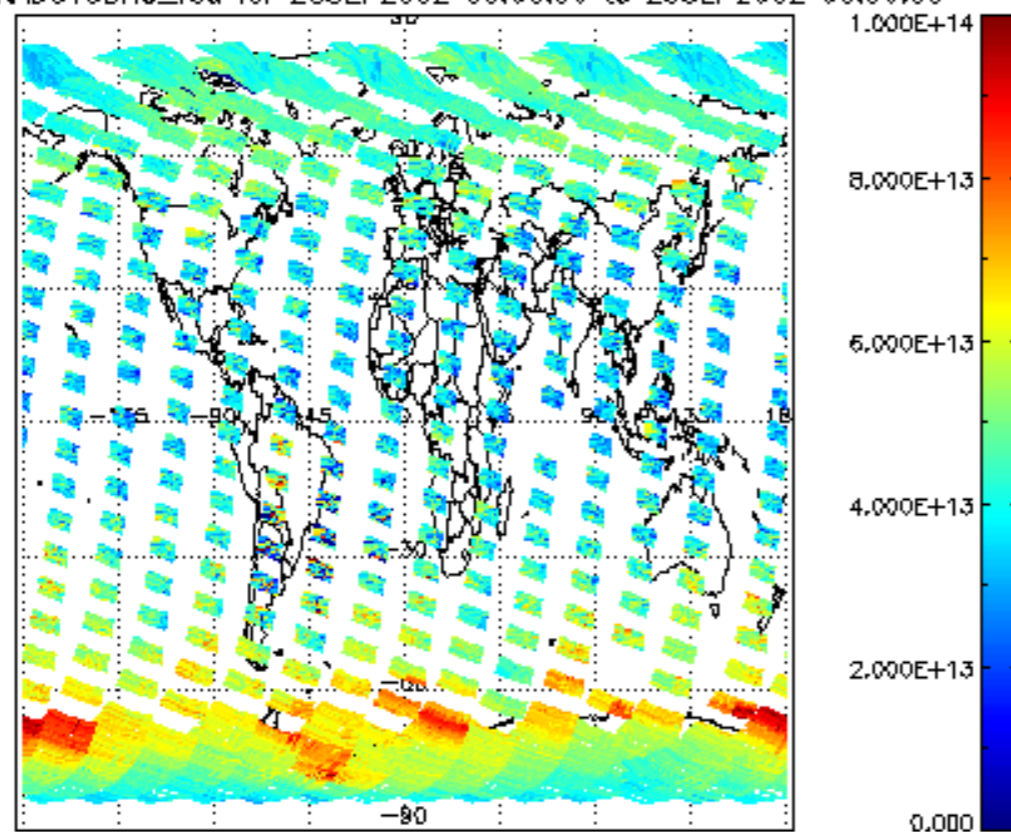


SCIOL2P\_NADUV1N02\_amf\_sl for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

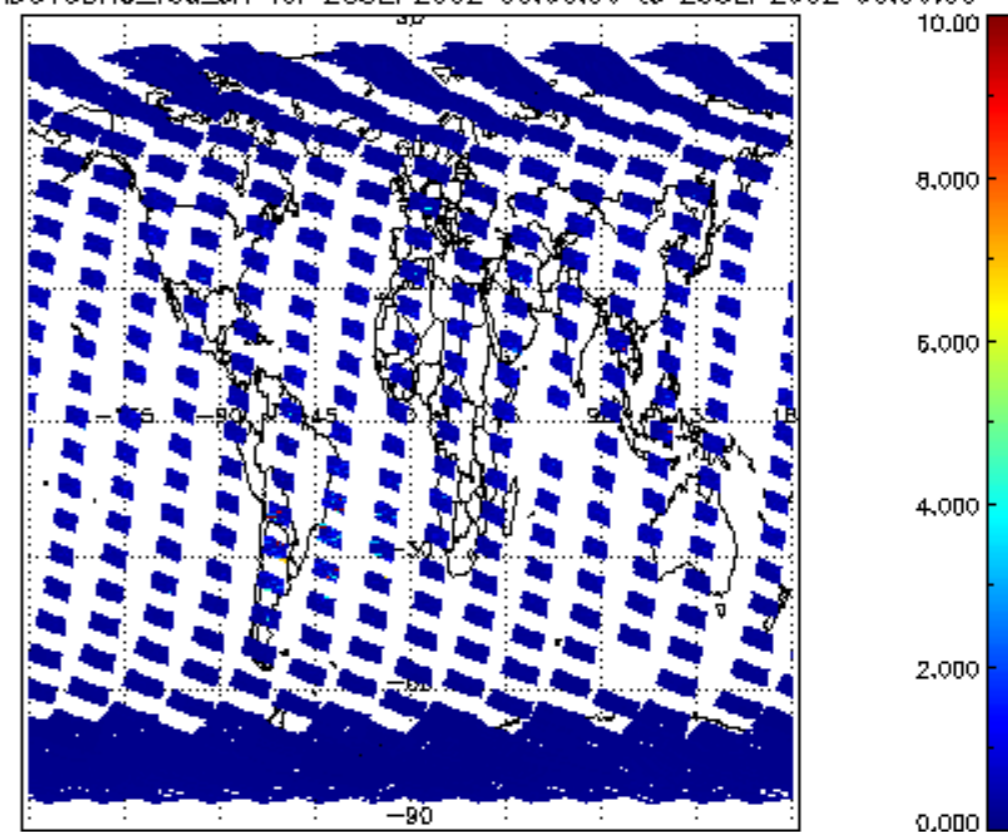




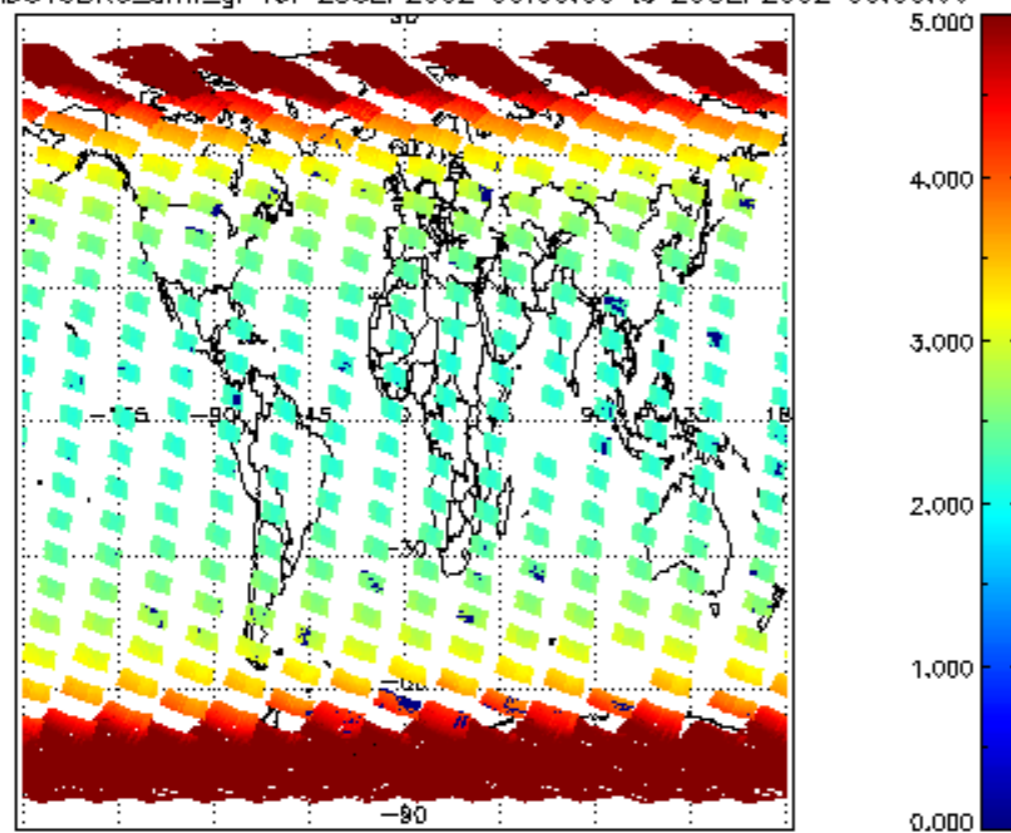
SCIOL2P\_NADUV3BRO\_vcd for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



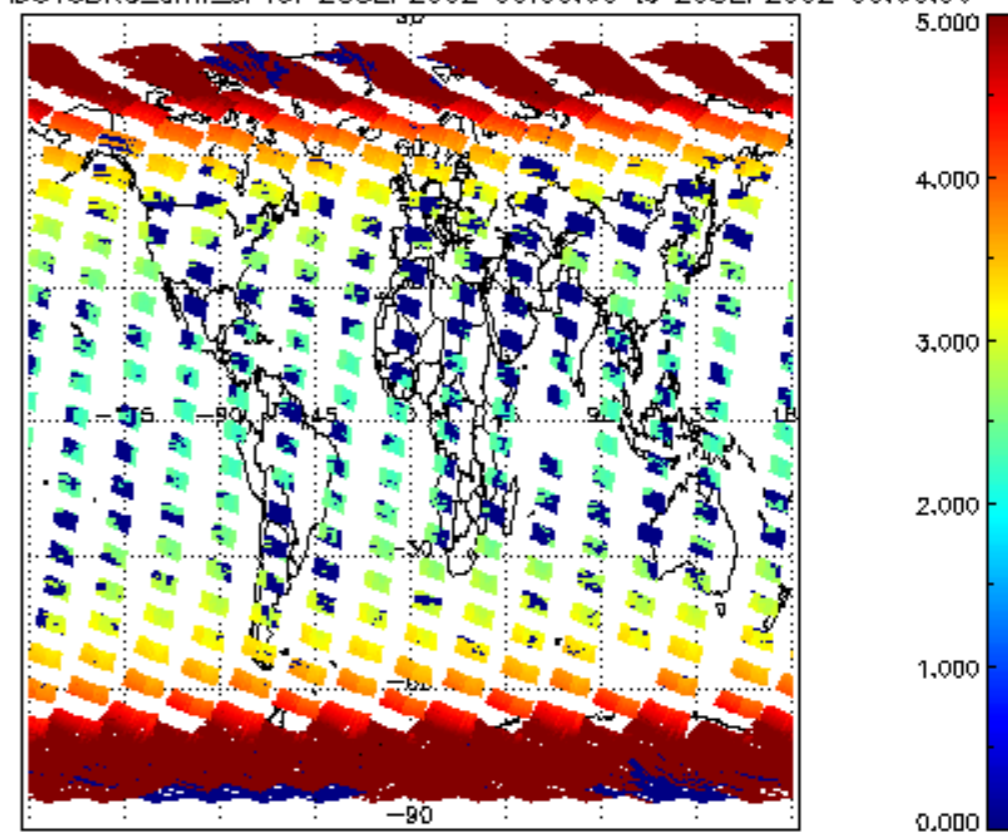
SCIOL2P\_NADUV3BRO\_vcd\_err for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



SCIOL2P\_NADUV3BRO\_amf\_gr for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

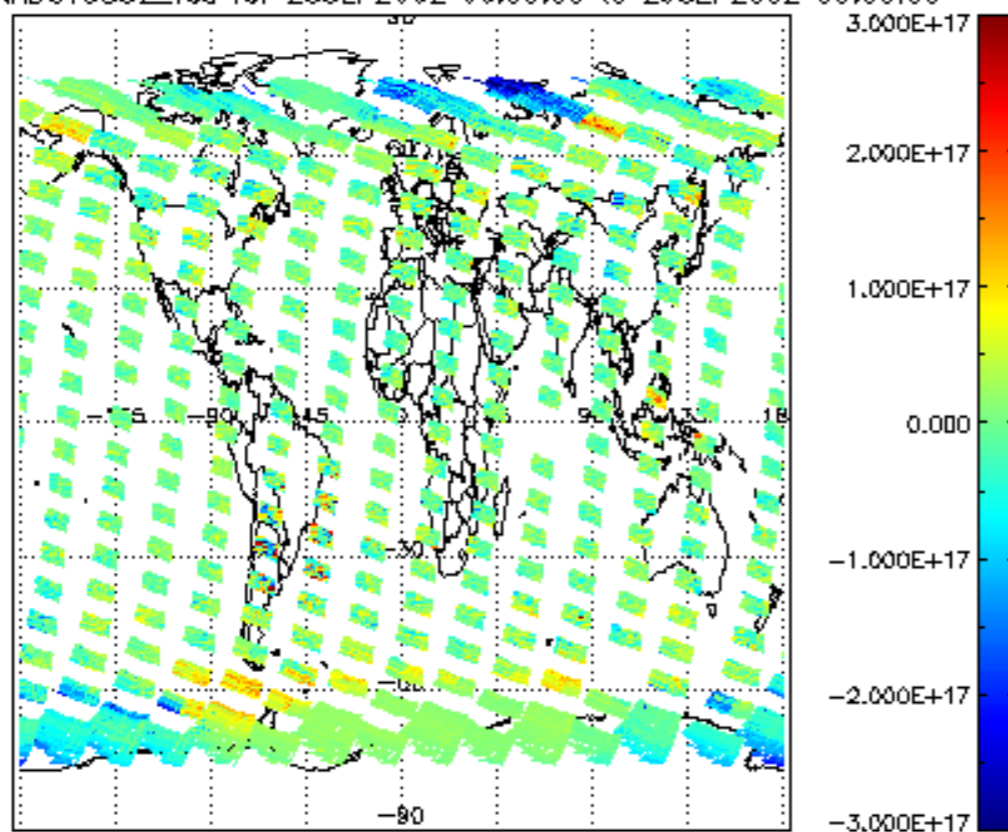


SCIOL2P\_NADUV3BRO\_amf\_sl for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

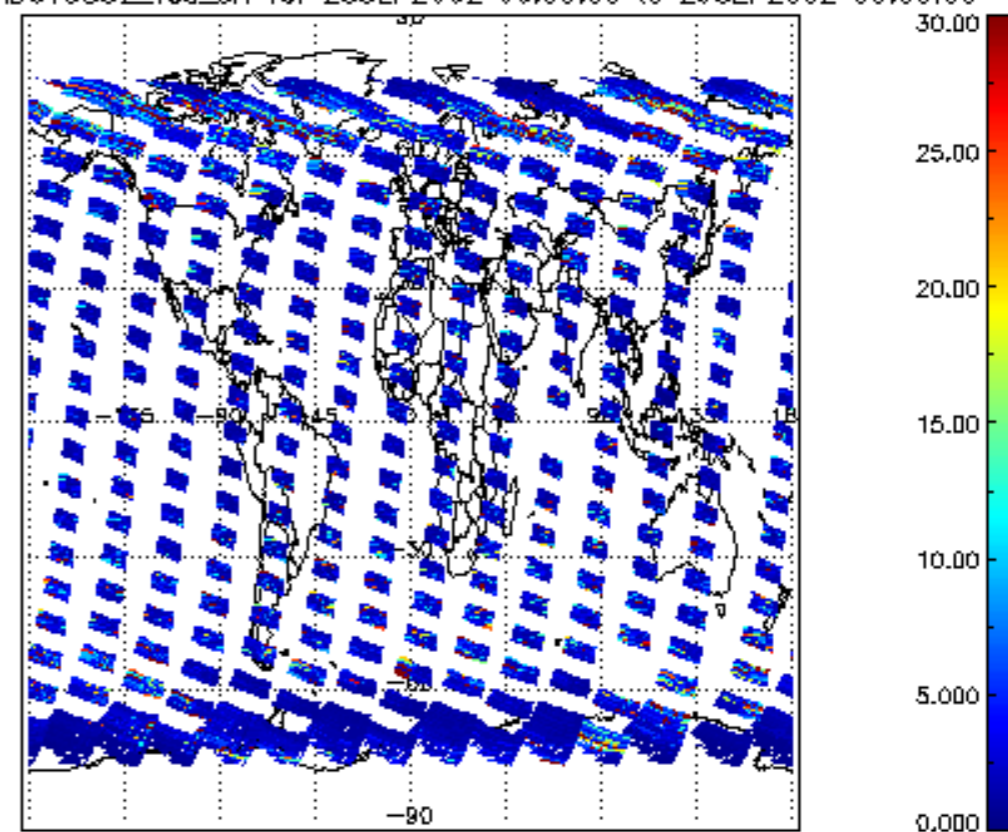




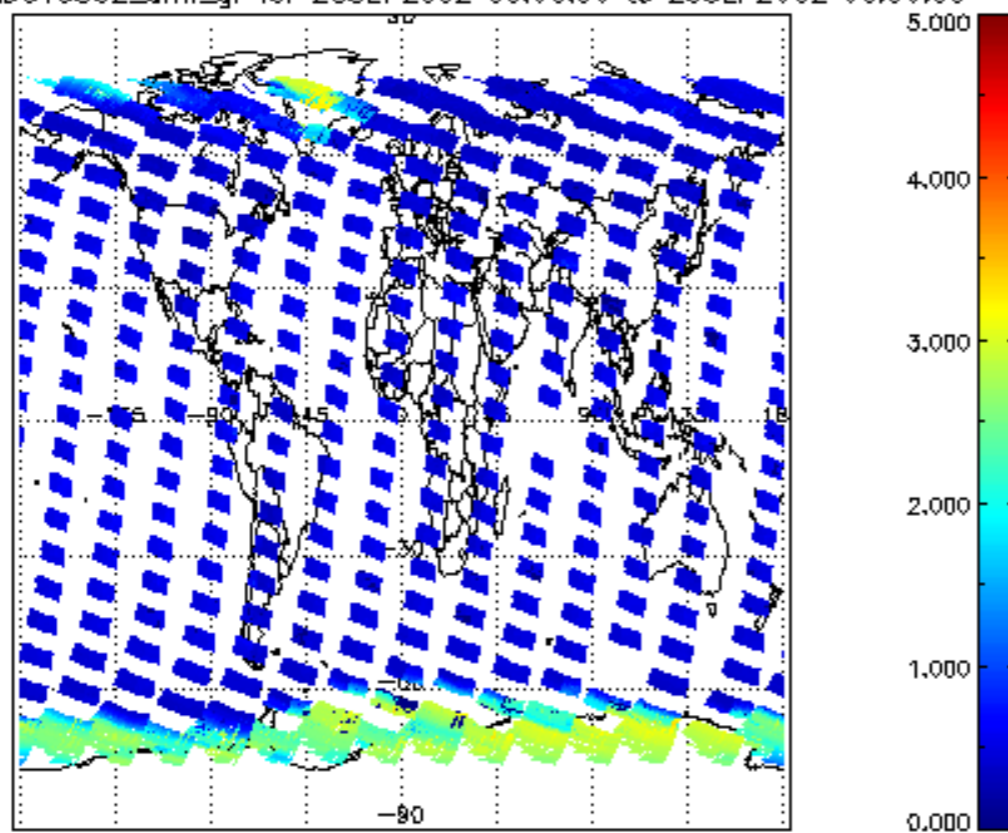
SCIOL2P\_NADUV5S02\_vcd for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



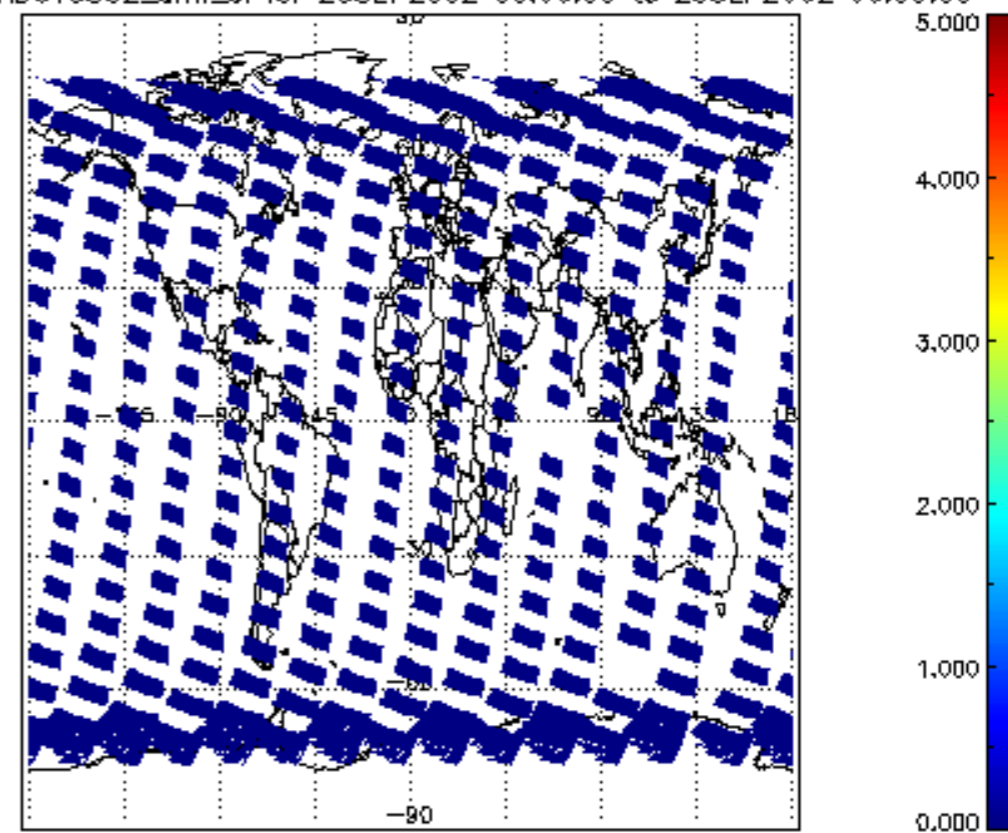
SCIOL2P\_NADUV5S02\_vcd\_err for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

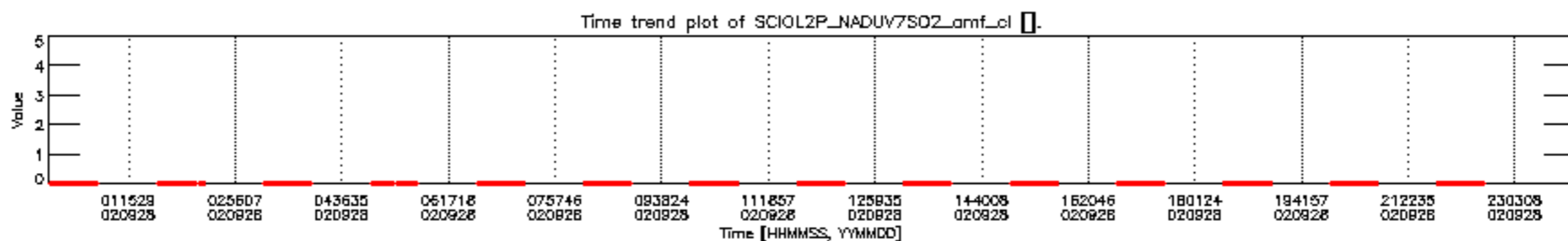
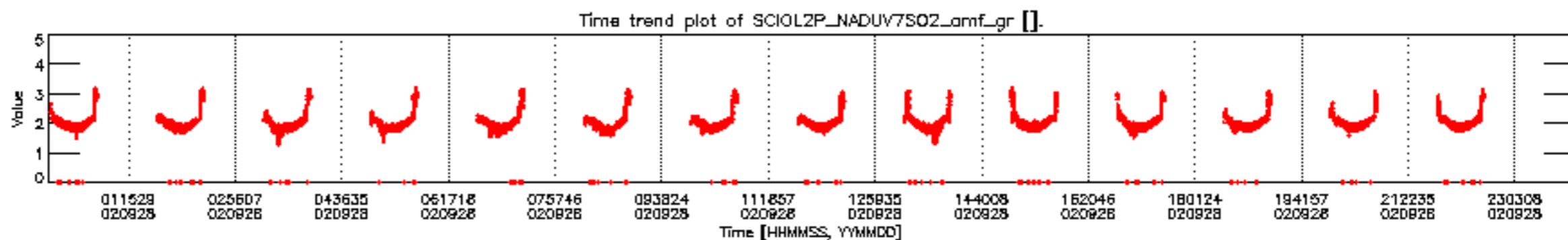
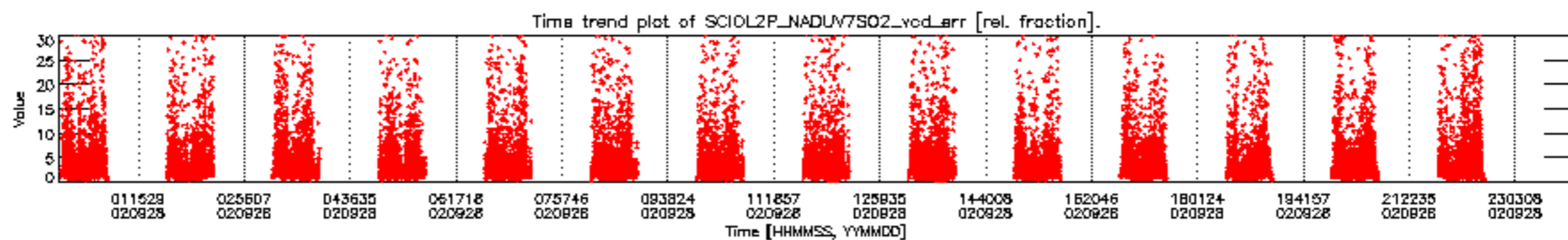
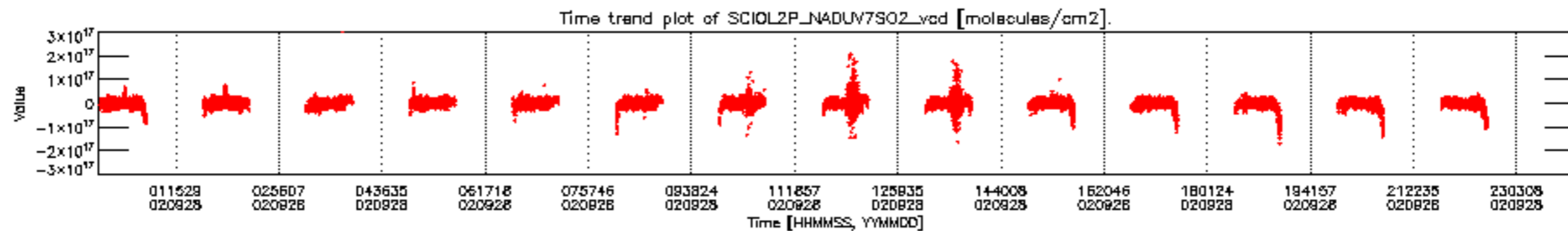


SCIOL2P\_NADUV5S02\_amf\_gr for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

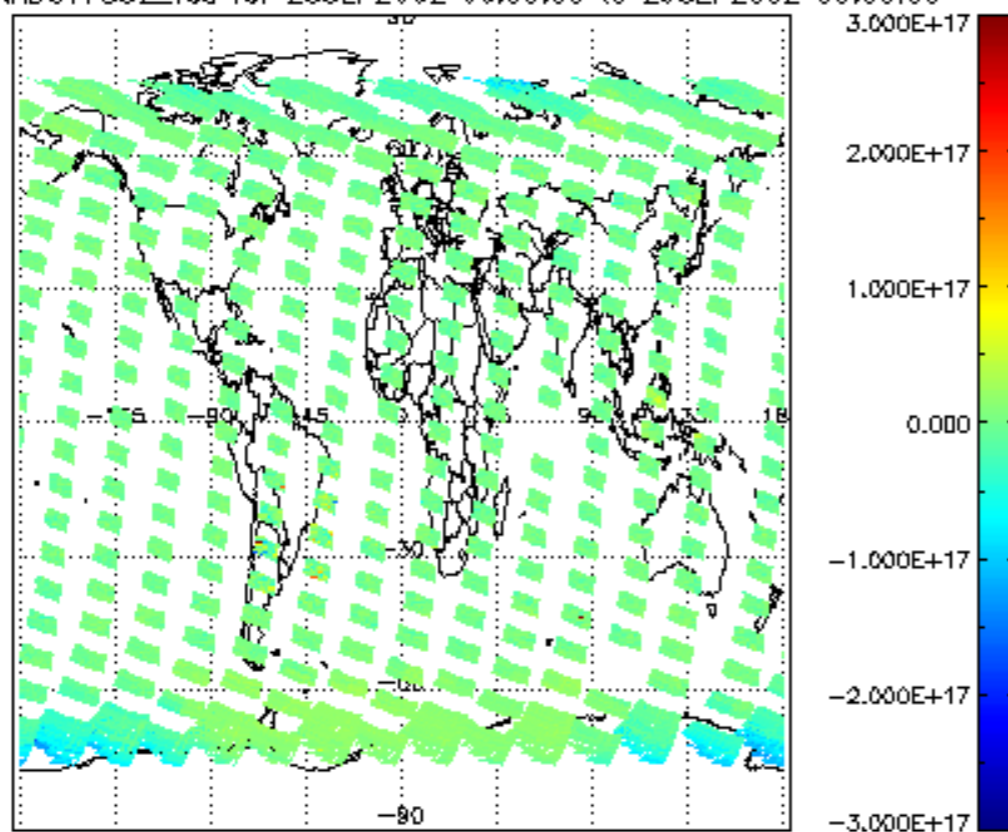


SCIOL2P\_NADUV5S02\_amf\_cl for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

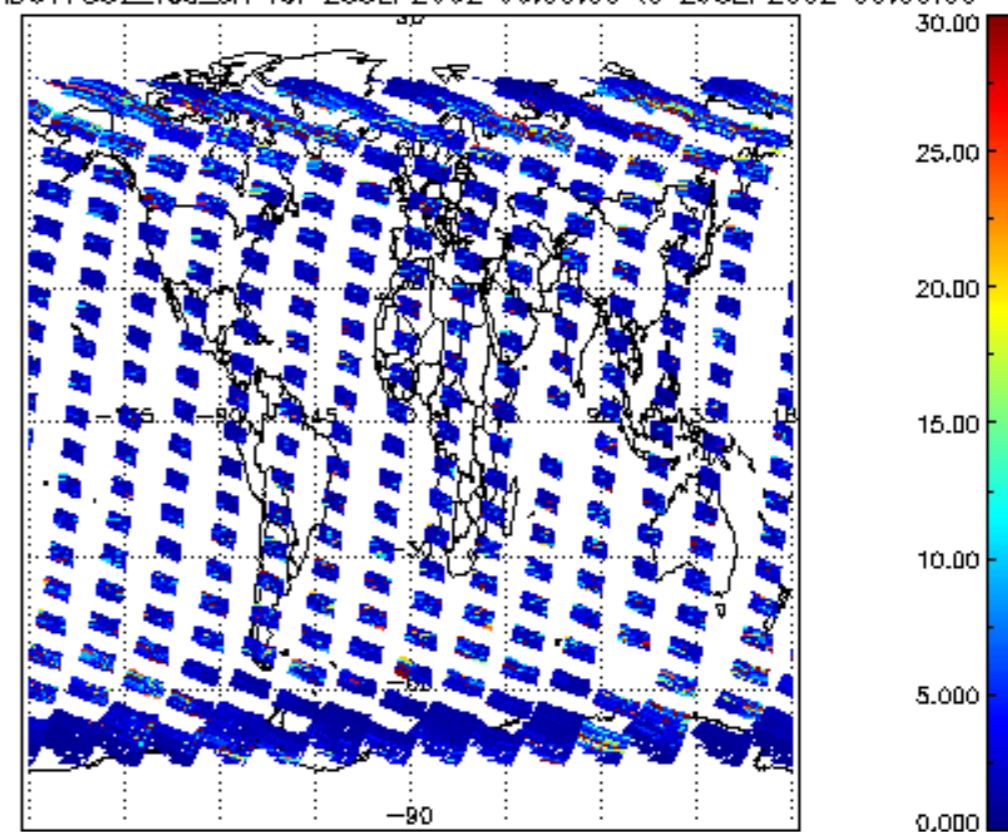




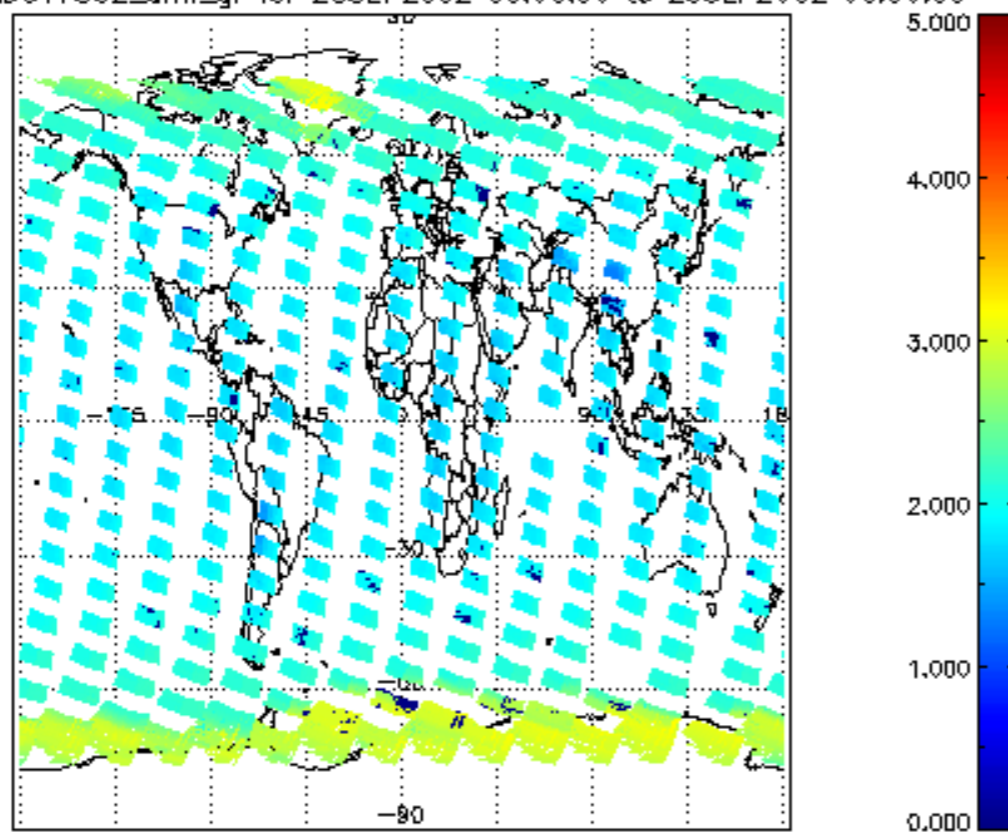
SCIOL2P\_NADUV7S02\_vcd for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



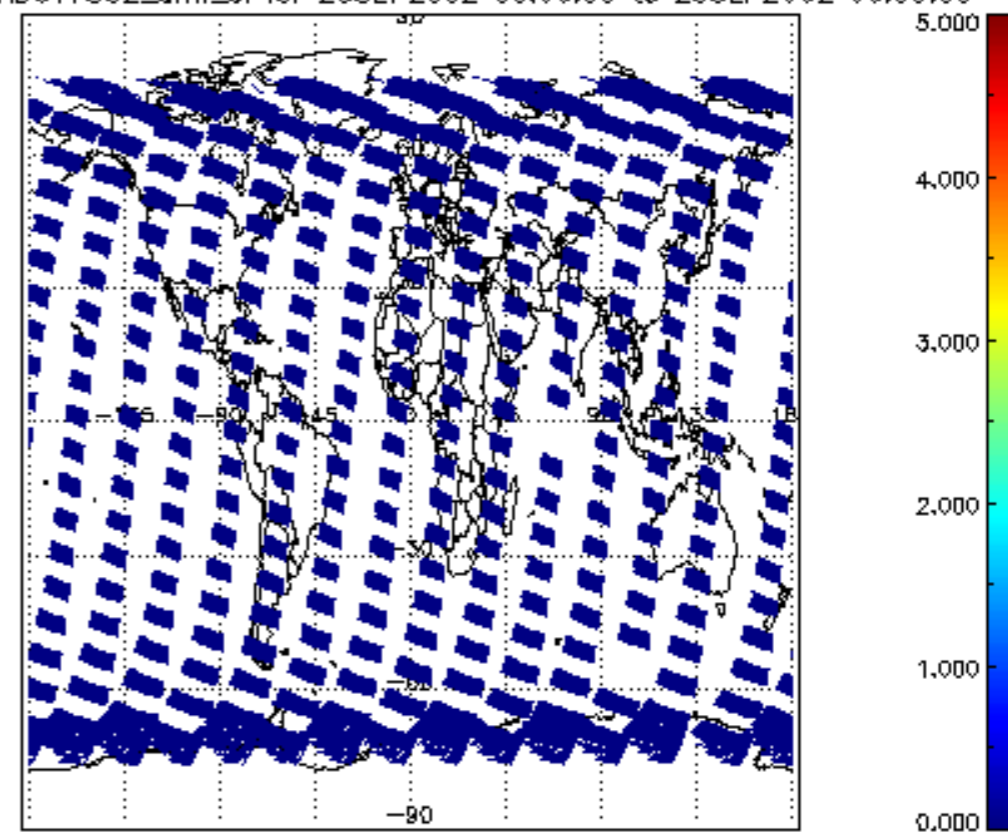
SCIOL2P\_NADUV7S02\_vcd\_err for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



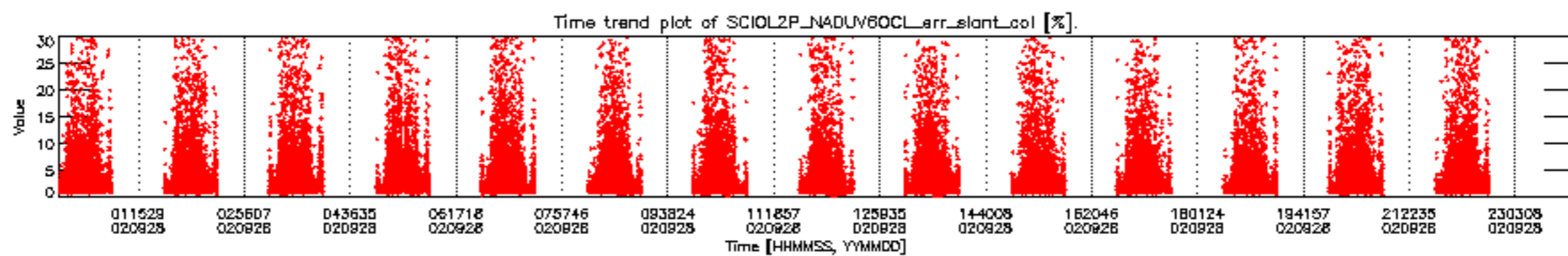
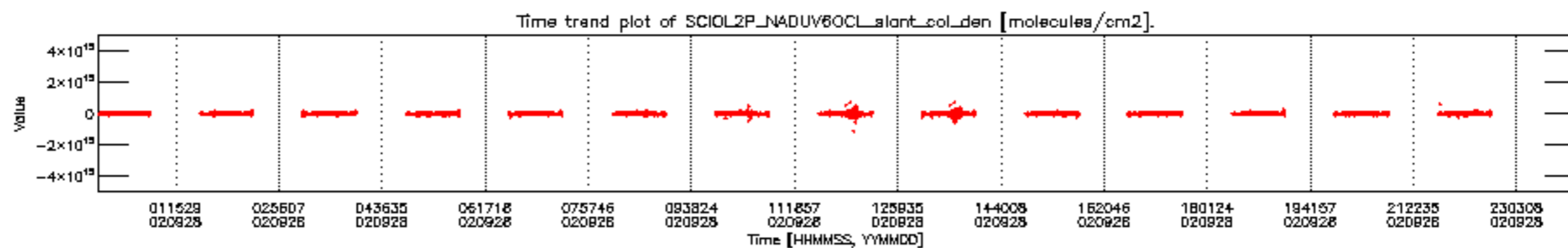
SCIOL2P\_NADUV7S02\_amf\_gr for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



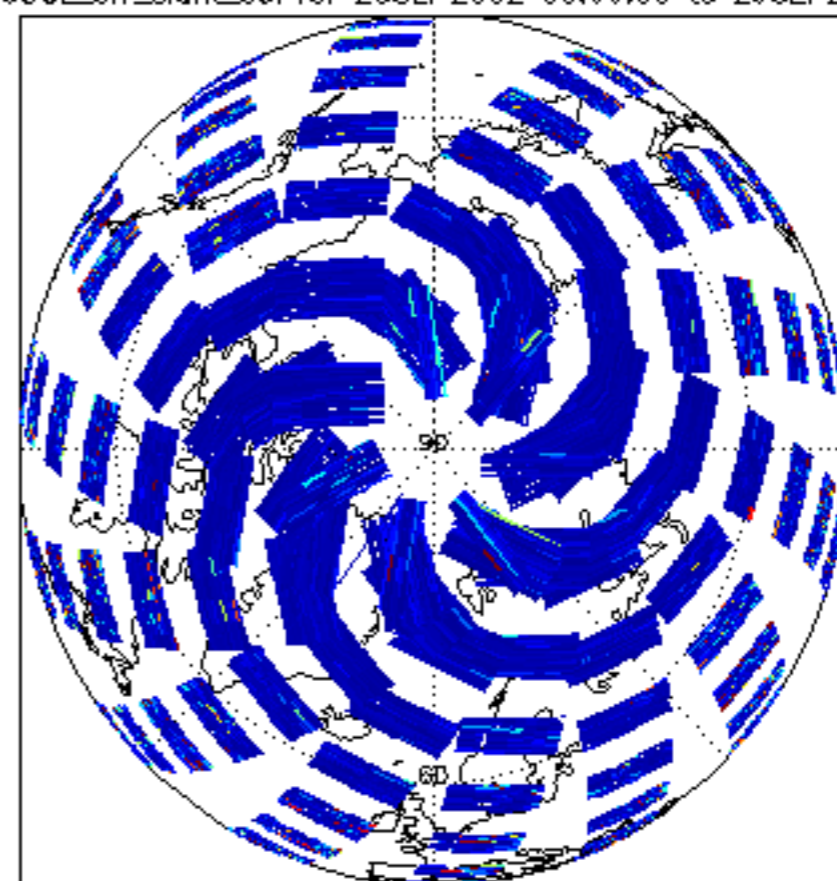
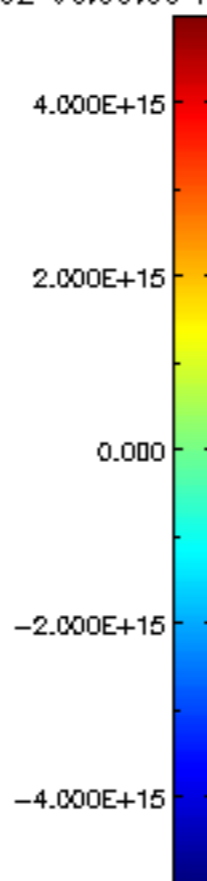
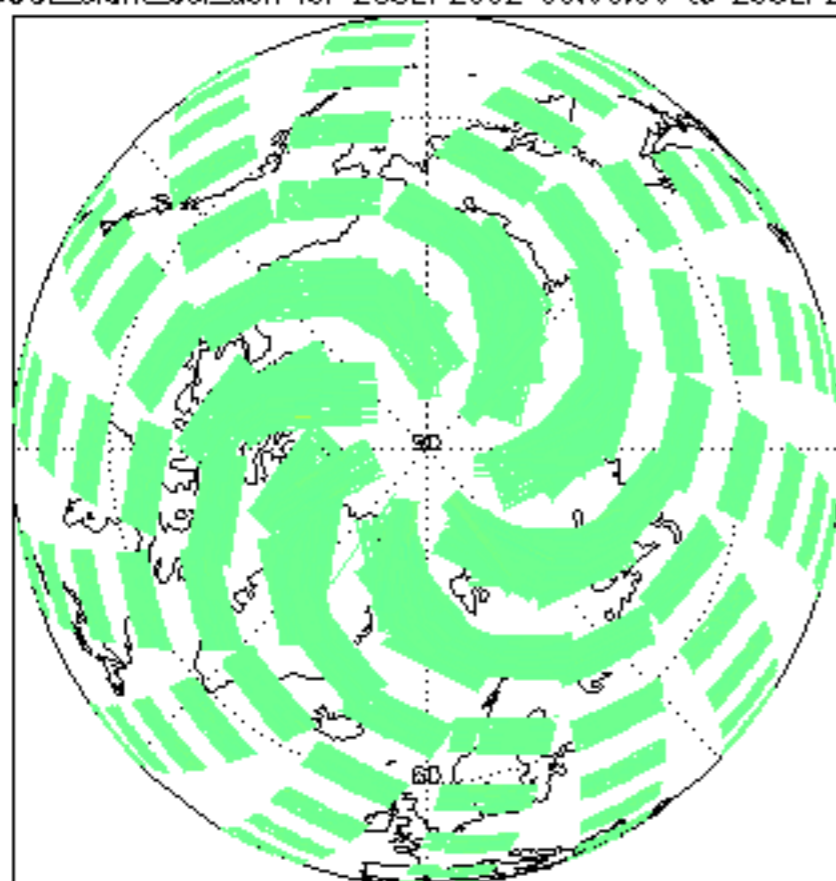
SCIOL2P\_NADUV7S02\_amf\_cl for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



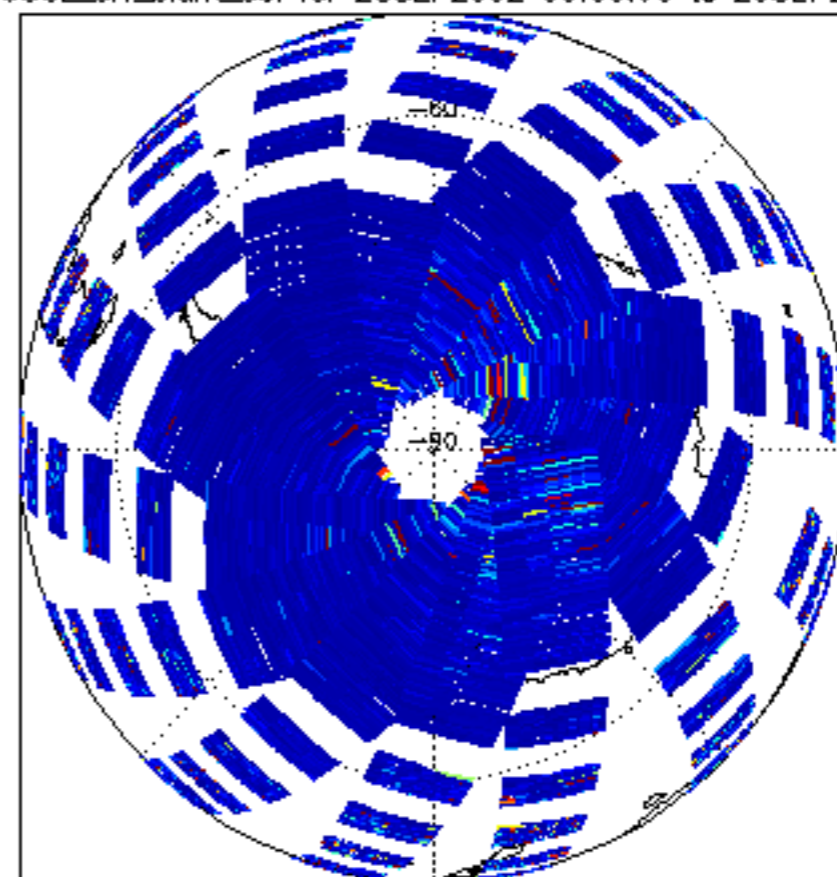
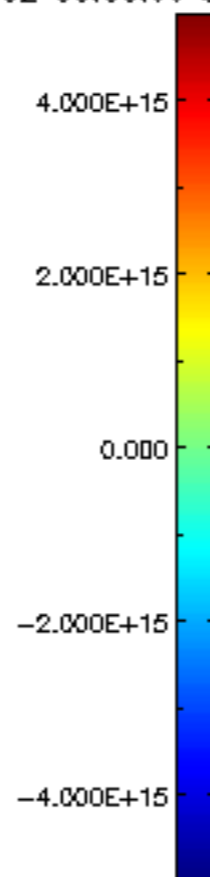
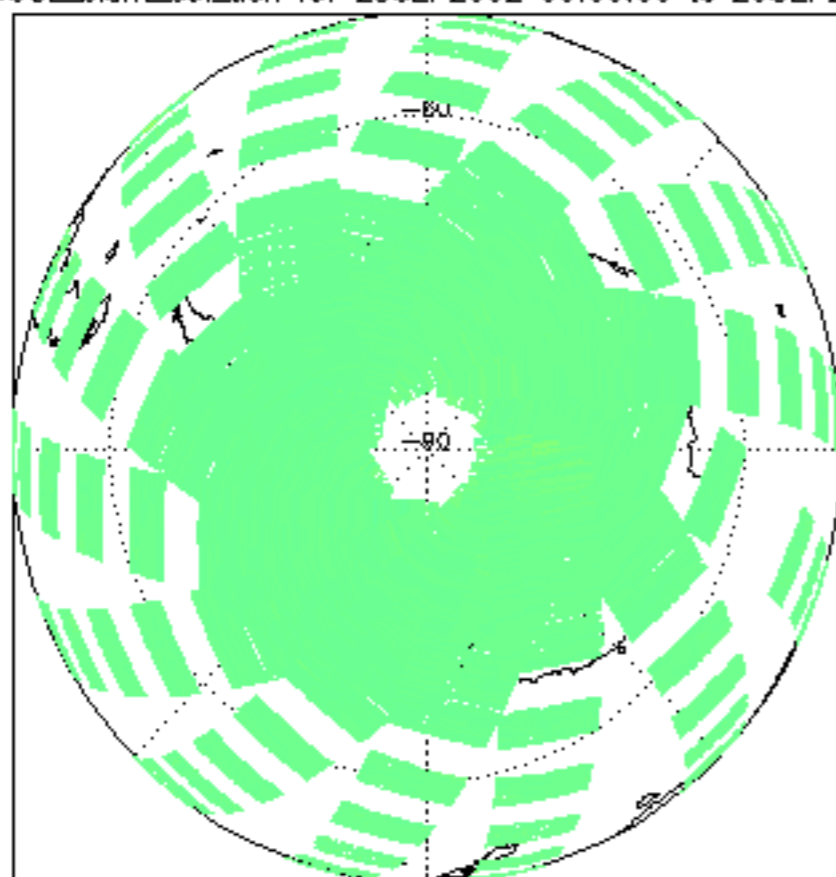


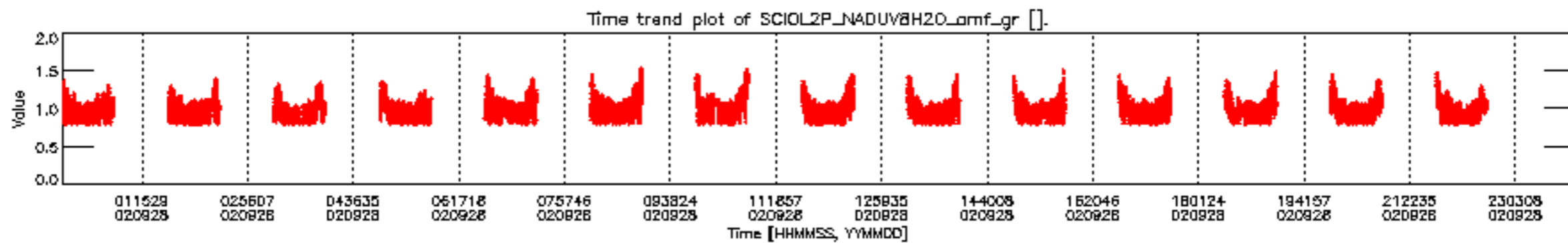
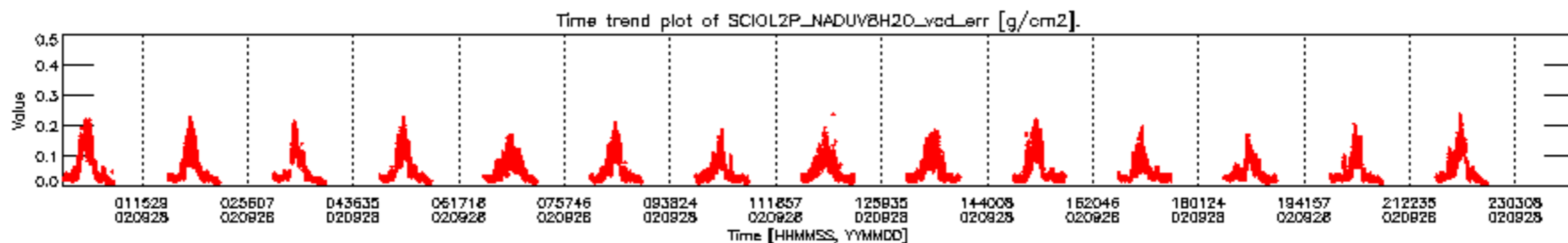
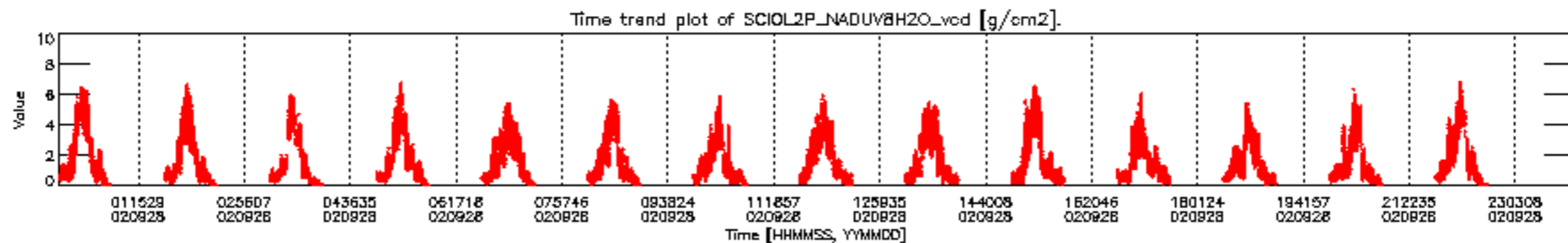


CIOL2P\_NADUV60CL\_slant\_col\_den for 28SEP2002 00:00:00 to 29SEP2002 00:00:00 np iCIOL2P\_NADUV60CL\_err\_slant\_col for 28SEP2002 00:00:00 to 29SEP2002 00:00:00 np

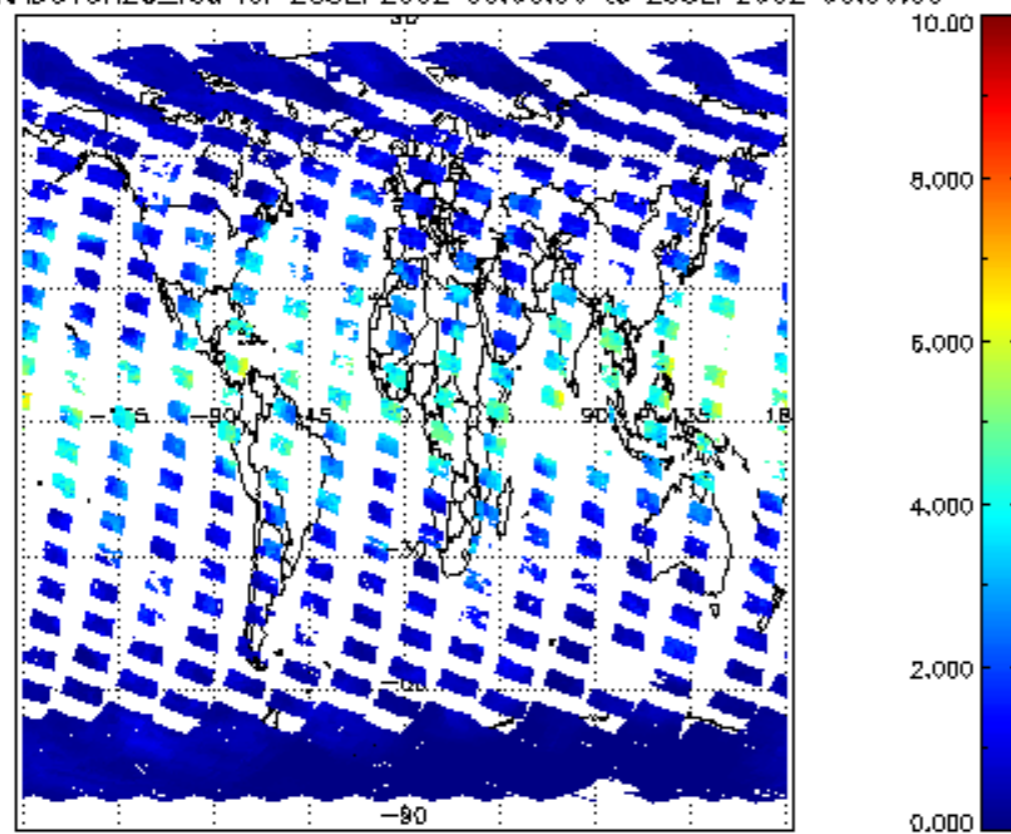


CIOL2P\_NADUV60CL\_slant\_col\_den for 28SEP2002 00:00:00 to 29SEP2002 00:00:00 sp iCIOL2P\_NADUV60CL\_err\_slant\_col for 28SEP2002 00:00:00 to 29SEP2002 00:00:00 sp

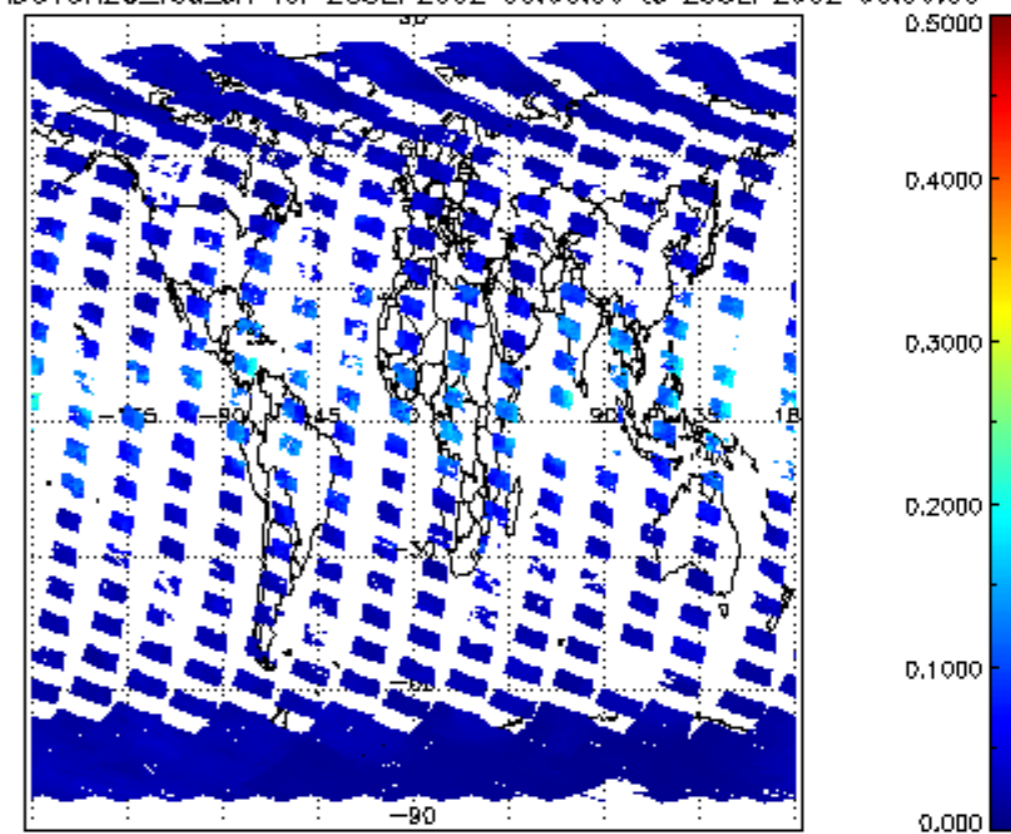




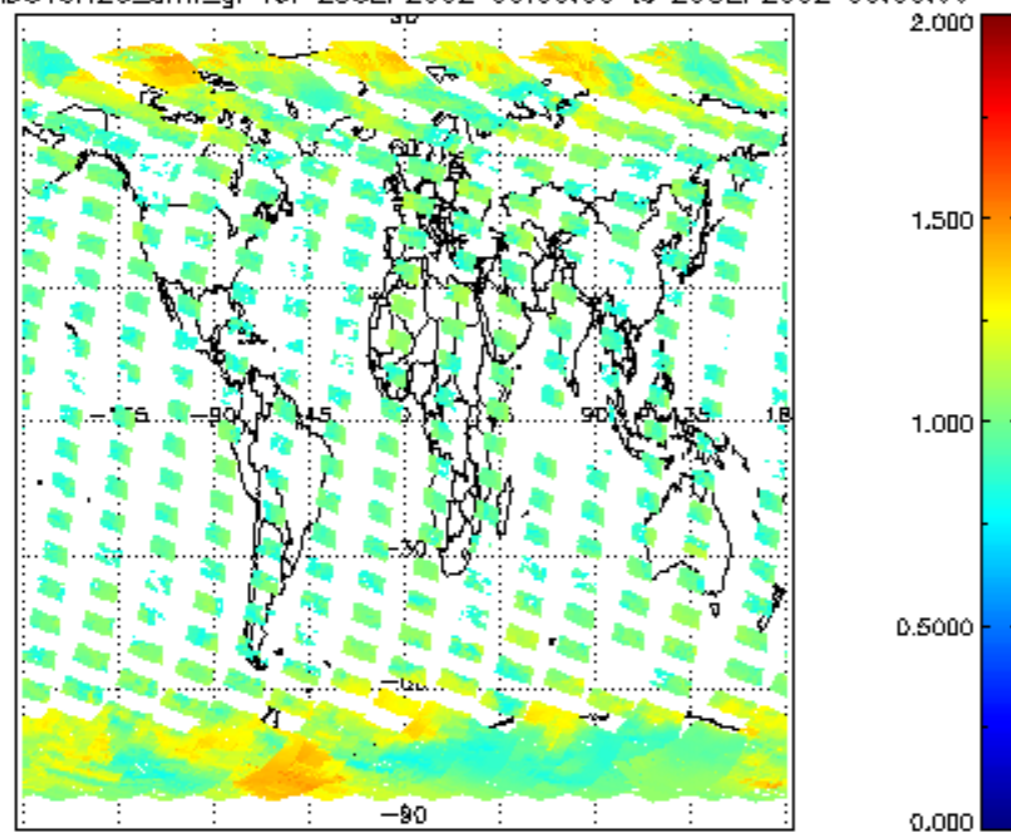
SCIOL2P\_NADUV8H20\_vcd for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

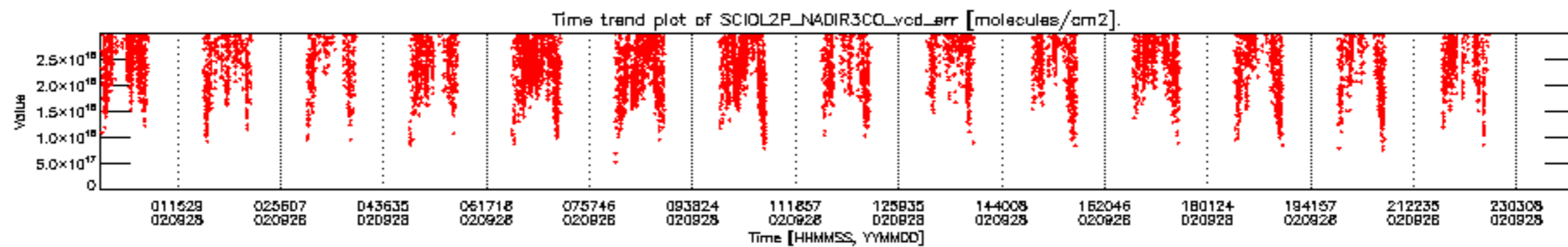
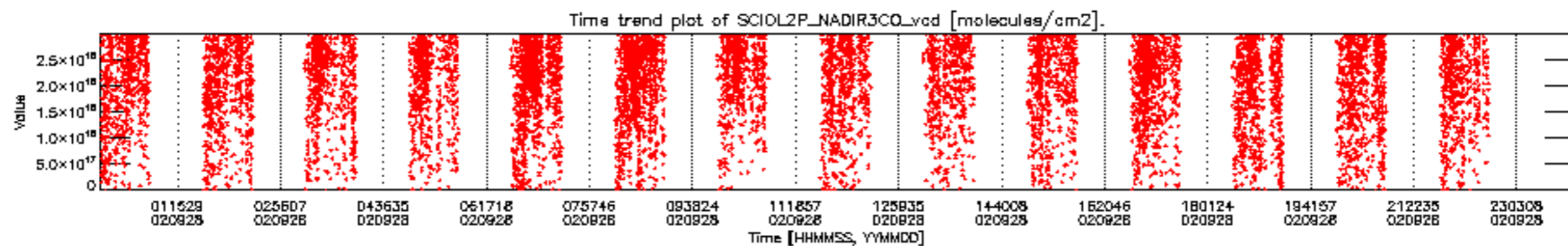


SCIOL2P\_NADUV8H20\_vcd\_err for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

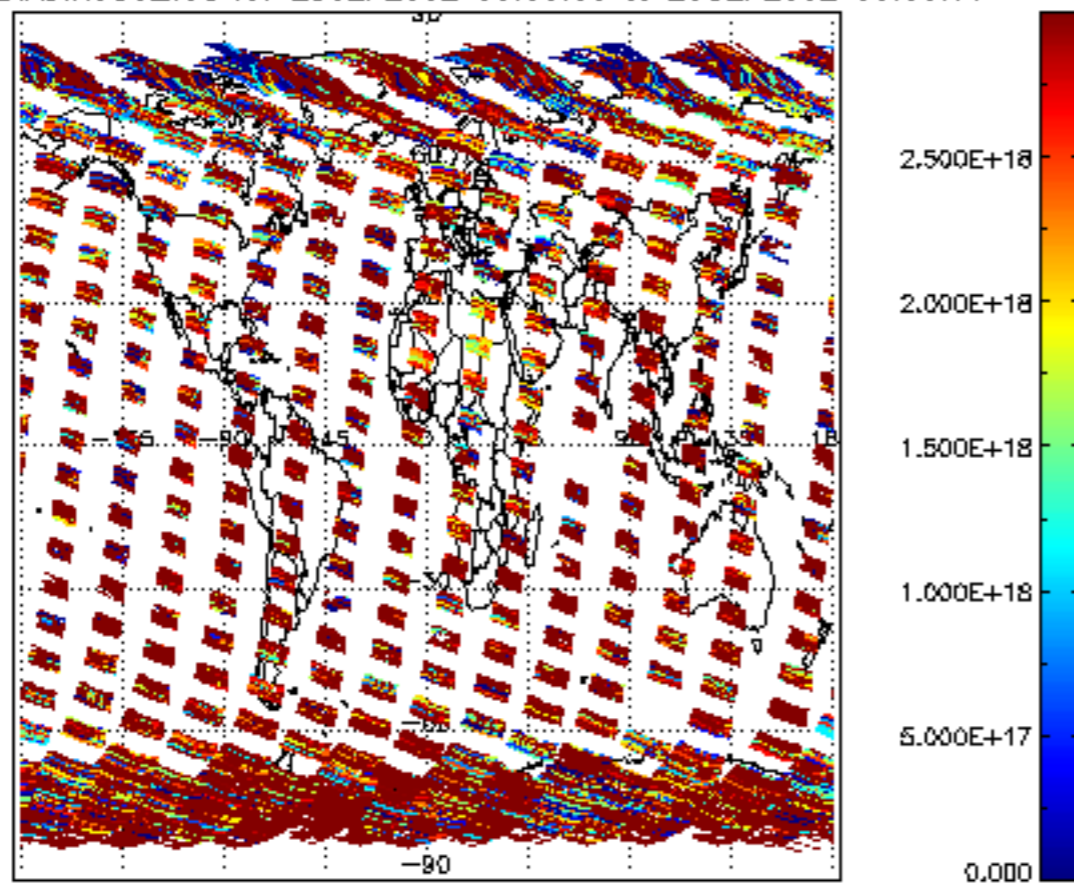


SCIOL2P\_NADUV8H20\_amf\_gr for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

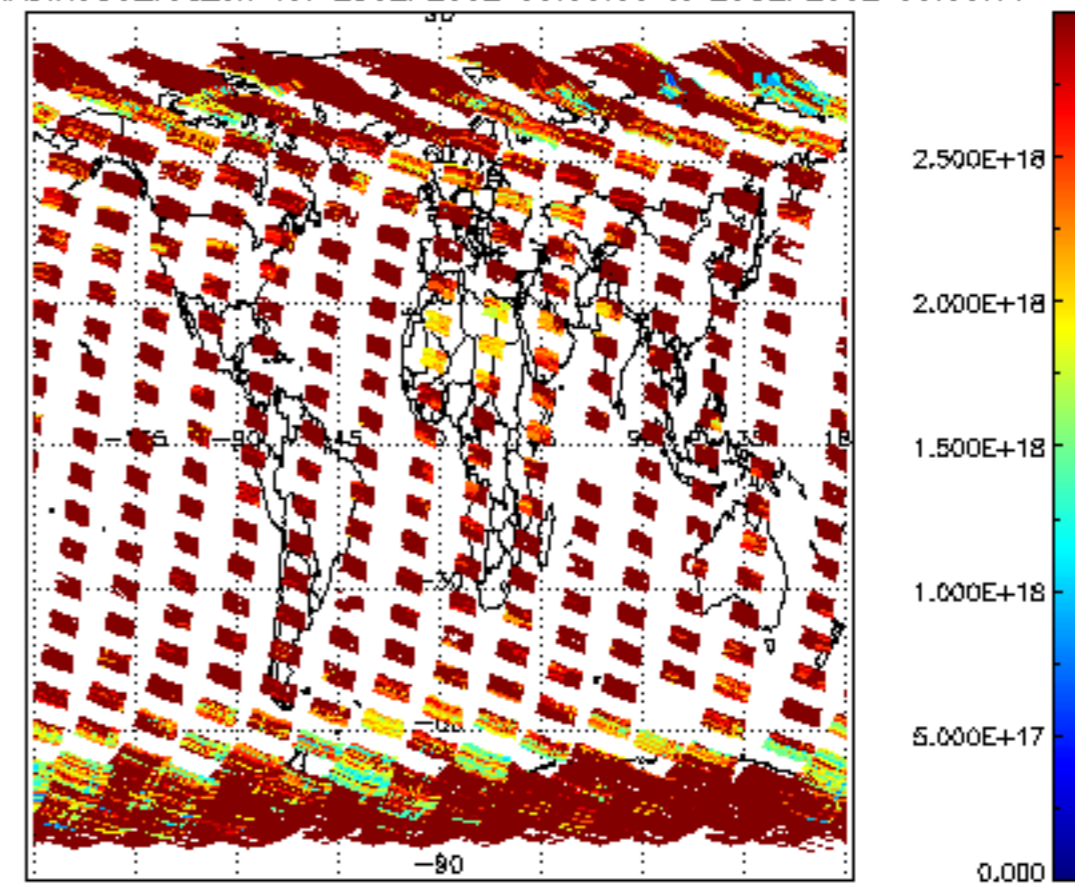




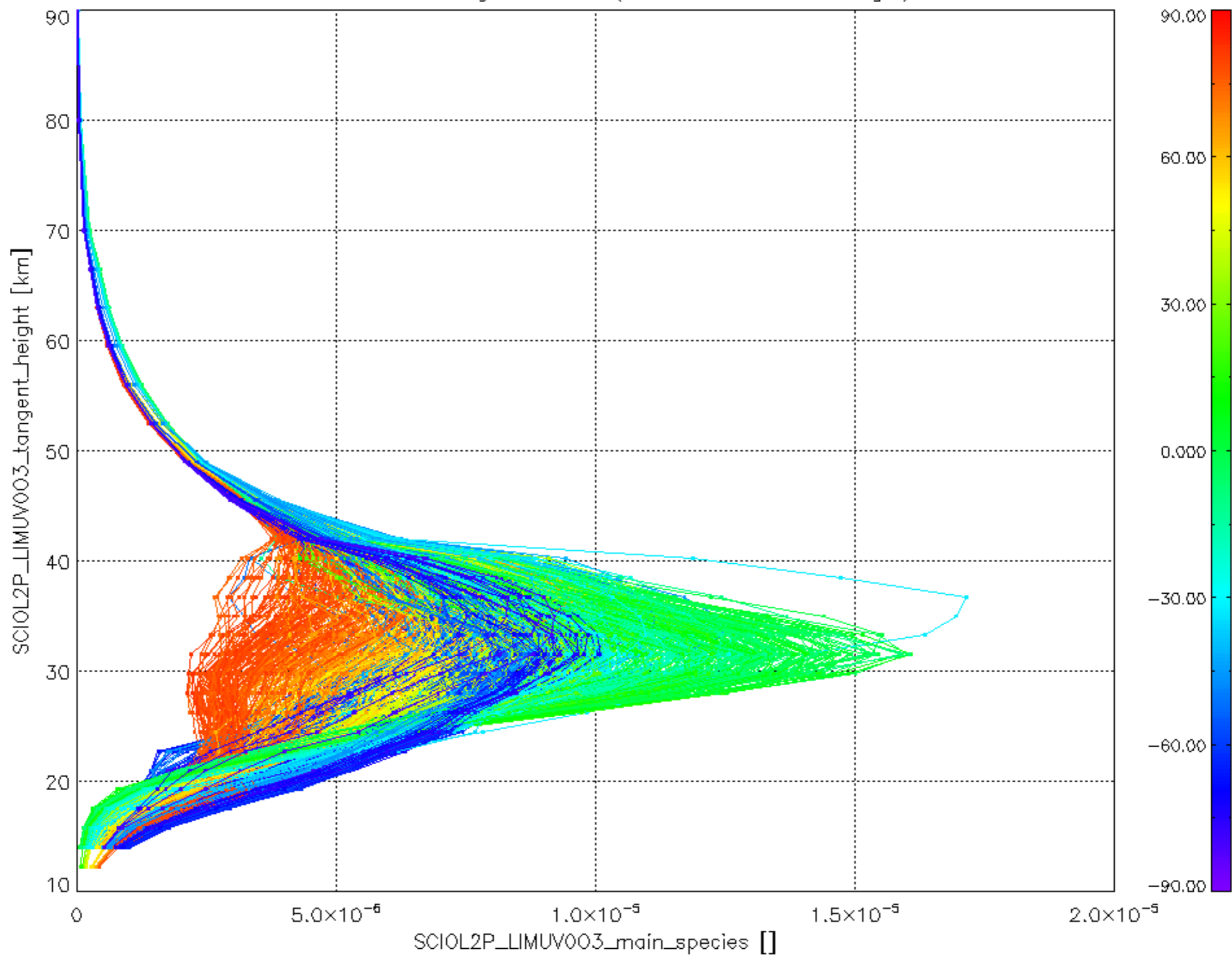
SCIOL2P\_NADIR3CO\_vcd for 28SEP2002 00:00:00 to 29SEP2002 00:00:00



SCIOL2P\_NADIR3CO\_vcd\_err for 28SEP2002 00:00:00 to 29SEP2002 00:00:00

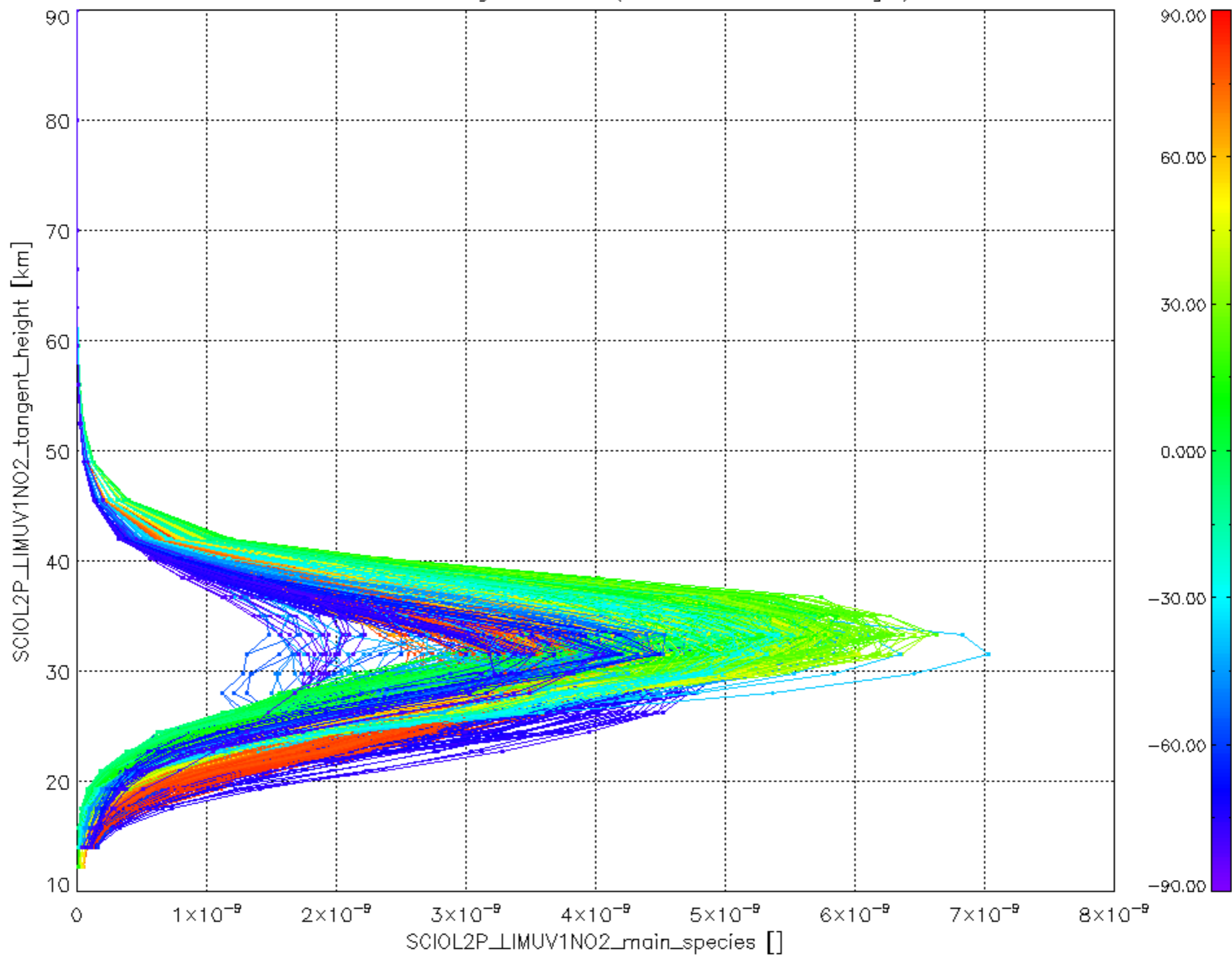


Plot of SCIOL2P\_LIMUV003\_main\_species.tang\_vmr vs. tangent height.  
 Colours indicate tangent latitude (see colour bar on the right).





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).

