

## 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 16:50:59
Data source version	SCIA-OL/5.02-W
Processing scope for products	01SEP2002 00:00:00 to 02SEP2002 00:00:00
Start time of first product within scope	31AUG2002 22:56:54
Stop time of last product within scope	02SEP2002 01:04:13
Total number of level 2 products	15
Number of level 2 products with errors	0

### 2.1.2 Summary per product

The following table shows a summary for each product used in this report.

Products are linked to a corresponding server directory for view/download. Note: Link access may be restricted by security settings of your internet browser or firewall.

Products are checked for a minimum duration of 3500.0000 seconds and a maximum duration of 6000.0000 seconds. Products failing the duration test are highlighted in bold, and their stop time is highlighted in red.

#	Product name	Start time	Stop time	Prod err	Fit summary
0	<a href="#">SCI_OL__2PWDP A20020831_225654_000035332009_00073_02632_3022.N1</a>	31AUG2002 22:56:54	31AUG2002 23:55:47	0	GOOD
1	<a href="#">SCI_OL__2PWDP A20020901_022350_000031502009_00075_02634_1556.N1</a>	<b>01SEP2002 02:23:50</b>	<b>01SEP2002 03:16:20</b>	0	GOOD
2	<a href="#">SCI_OL__2PWDP A20020901_040426_000031502009_00076_02635_1557.N1</a>	<b>01SEP2002 04:04:26</b>	<b>01SEP2002 04:56:56</b>	0	GOOD
3	<a href="#">SCI_OL__2PWDP A20020901_054503_000031502009_00077_02636_1558.N1</a>	<b>01SEP2002 05:45:03</b>	<b>01SEP2002 06:37:33</b>	0	GOOD
4	<a href="#">SCI_OL__2PWDP A20020901_072539_000031502009_00078_02637_1559.N1</a>	<b>01SEP2002 07:25:39</b>	<b>01SEP2002 08:18:09</b>	0	GOOD

5	SCI_OL__2PWDP A20020901_090615_000031502009_00079_02638_1560.N1	01SEP2002 09:06:15	01SEP2002 09:58:46	0	GOOD
6	SCI_OL__2PWDP A20020901_104652_000031502009_00080_02639_1561.N1	01SEP2002 10:46:52	01SEP2002 11:39:22	0	GOOD
7	SCI_OL__2PWDP A20020901_122728_000031502009_00081_02640_1562.N1	01SEP2002 12:27:28	01SEP2002 13:19:58	0	GOOD
8	SCI_OL__2PWDP A20020901_140805_000031502009_00082_02641_1563.N1	01SEP2002 14:08:05	01SEP2002 15:00:35	0	GOOD
9	SCI_OL__2PWDP A20020901_154841_000031502009_00083_02642_1564.N1	01SEP2002 15:48:41	01SEP2002 16:41:11	0	GOOD
10	SCI_OL__2PWDP A20020901_172917_000031502009_00084_02643_1565.N1	01SEP2002 17:29:17	01SEP2002 18:21:48	0	GOOD
11	SCI_OL__2PWDP A20020901_191012_00003122009_00085_02644_1566.N1	01SEP2002 19:10:12	01SEP2002 20:02:05	0	GOOD
12	SCI_OL__2PWDP A20020901_205050_000030812009_00086_02645_1567.N1	01SEP2002 20:50:50	01SEP2002 21:42:12	0	GOOD
13	SCI_OL__2PWDP A20020901_223107_000031502009_00087_02646_1568.N1	01SEP2002 22:31:07	01SEP2002 23:23:37	0	GOOD
14	SCI_OL__2PWDP A20020902_001143_000031502009_00088_02647_1569.N1	02SEP2002 00:11:43	02SEP2002 01:04:13	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: 153660

Total number of cloud data DSRs with good quality flag (=0): 153660 (100.0 %)

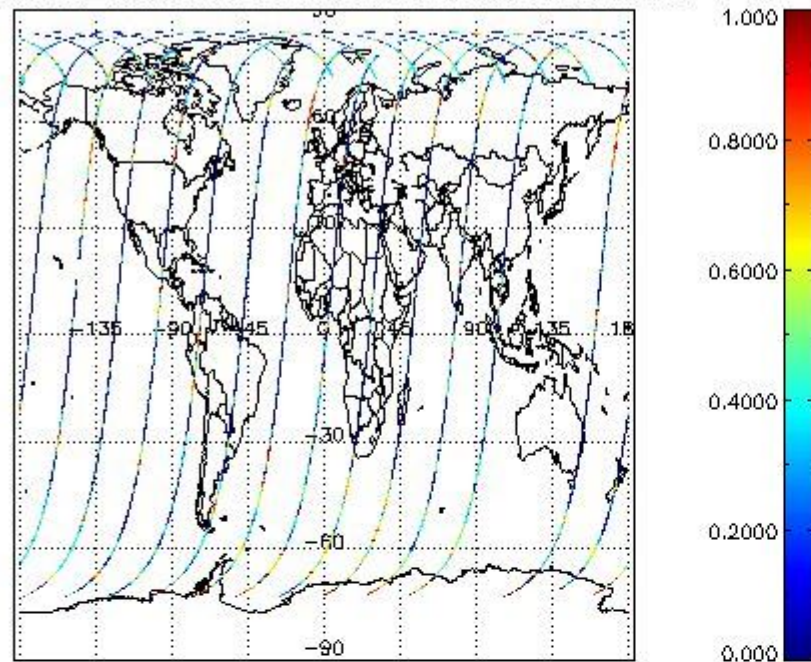
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	153660	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	153660	0.25000	0.25000	0.25000	0.25000	0.0000	s
CL_FRAC	153660	0.27868	0.21661	0.0000	1.0000	0.28310	
CL_FRAC_ERR	153660	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	153660	8.0000	8.0000	8.0000	8.0000	0.0000	
PMD_READ_CL[0]	153660	0.17586	0.0000	0.0000	8.0000	1.1611	-
PMD_READ_CL[1]	153660	2.5731	0.0000	0.0000	8.0000	3.7150	-
CL_TOP_HEIGHT	136403	2.8474	1.1000	0.0000	17.000	3.8323	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	136403	49.735	38.137	0.0000	101.00	46.015	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	153660	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	153660	11001111	11000100	11000000	11100000	3724.2	
AERO_ABSO_IND	153660	3.3901	3.5769	0.0000	12.981	2.0777	
AERO_IND_DIAG	153660	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	153660	10100111	11000000	00000000	11000000	16290.	

#### Time and geolocation plots:

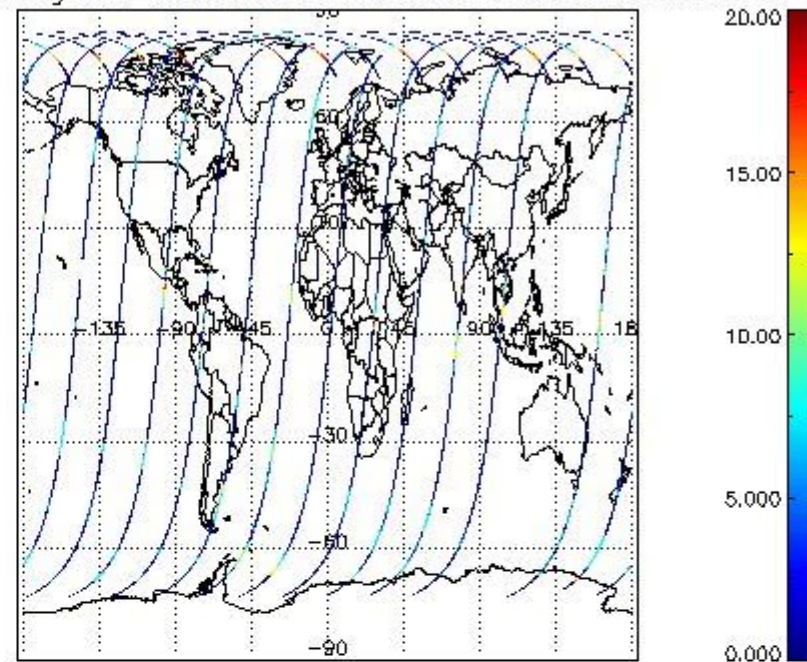
Plots are available for the following parameters:

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

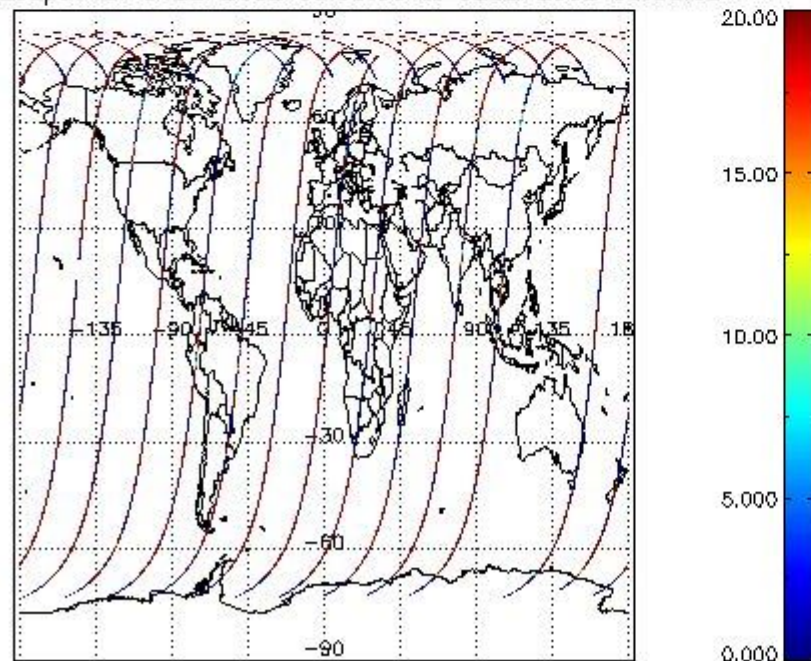
cL\_frac for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



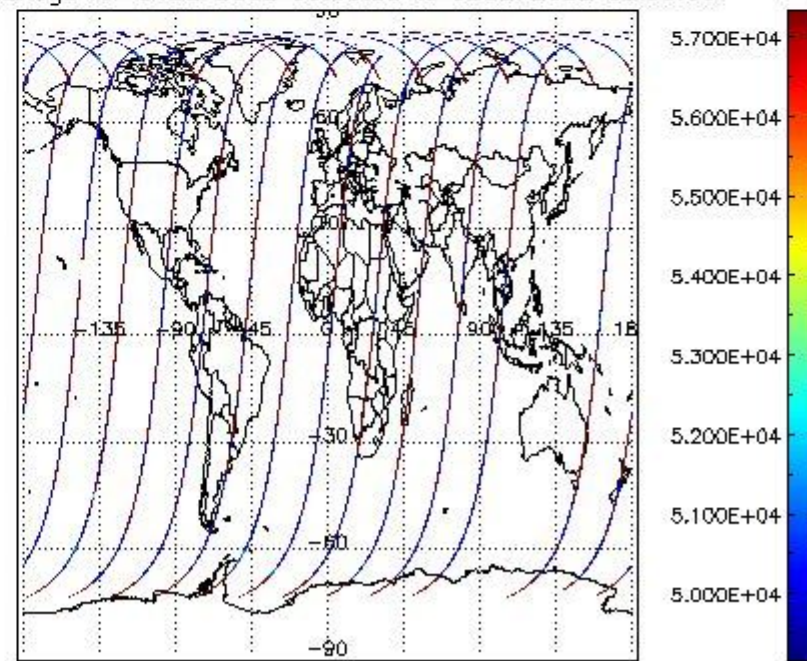
cL\_top\_height for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



cL\_opt\_depth for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



cloud\_flags for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



## 2.2.2 Nadir

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

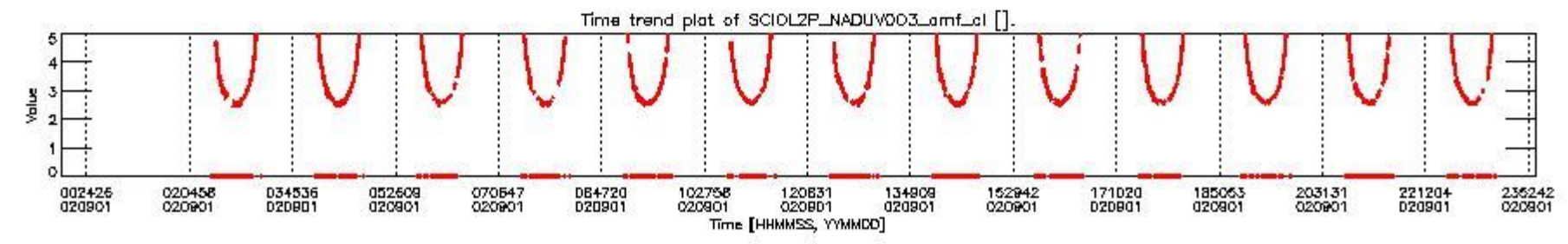
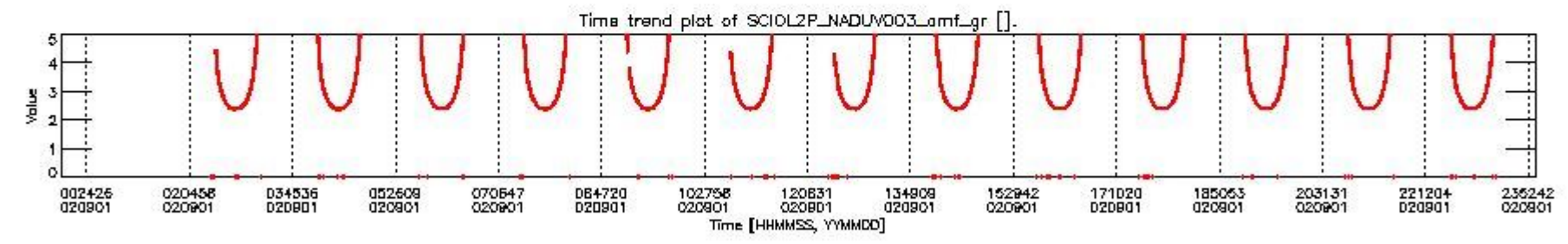
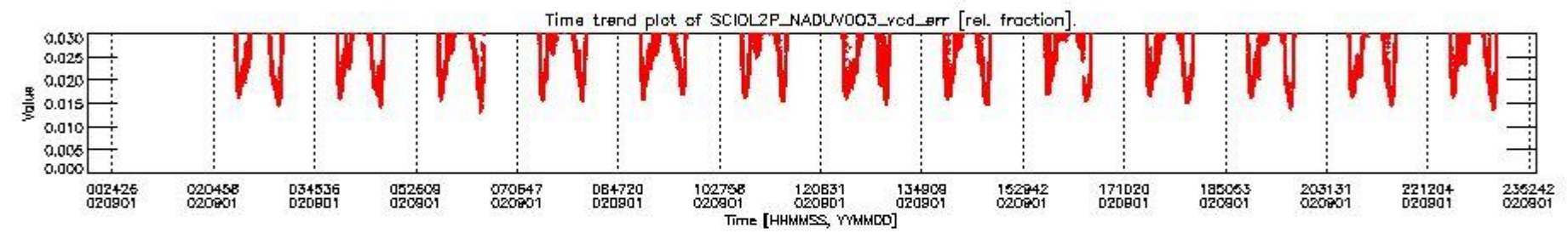
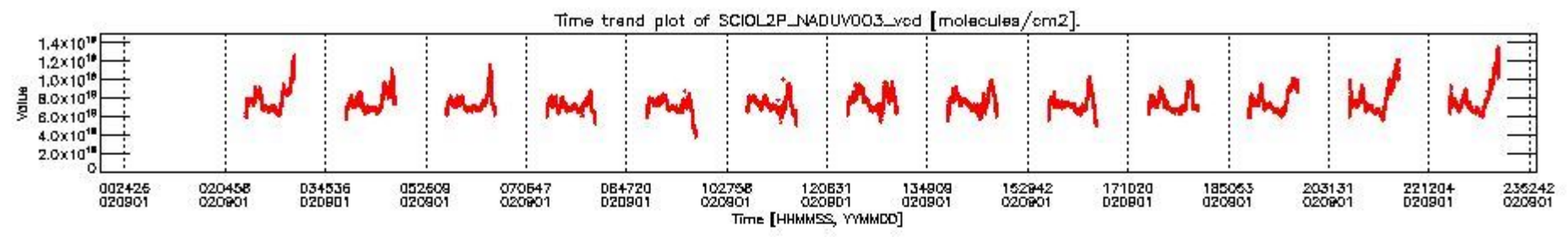
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

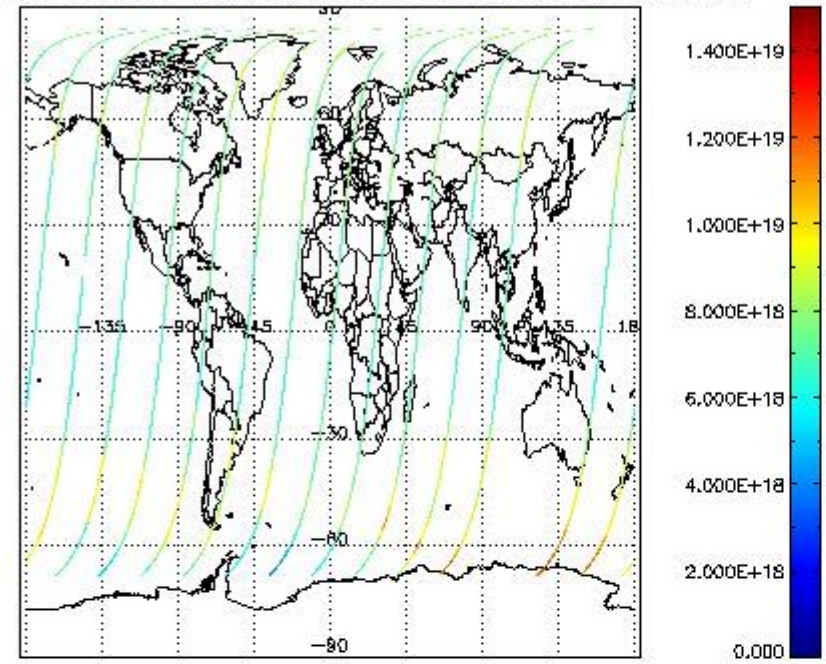
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

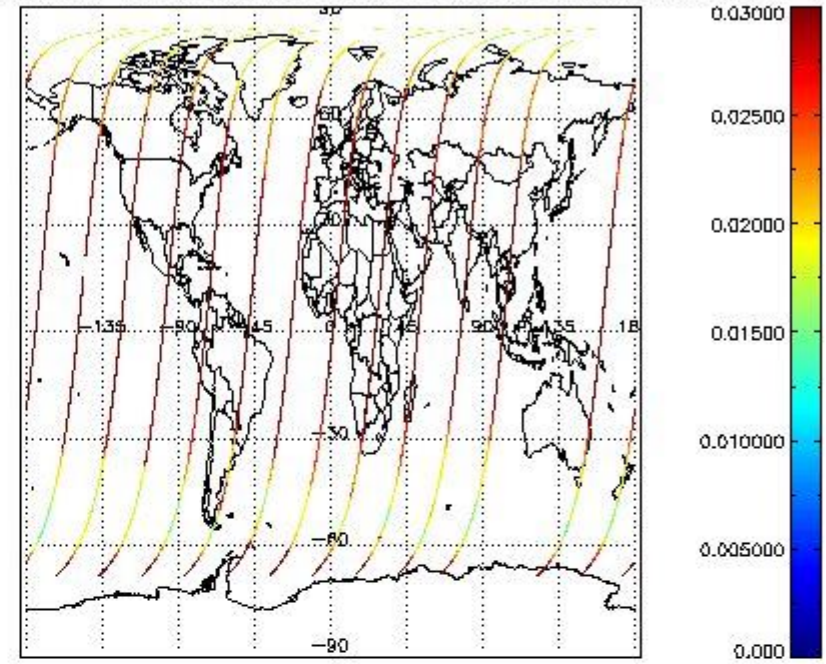
#### 2.2.2.1 O3 (UV0)



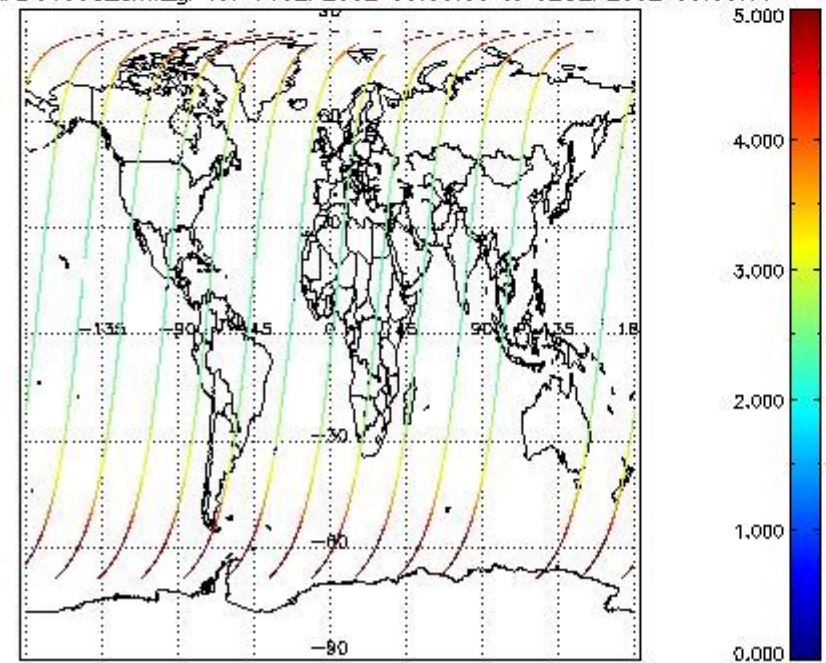
SCIOL2P\_NADUV003\_vcd for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



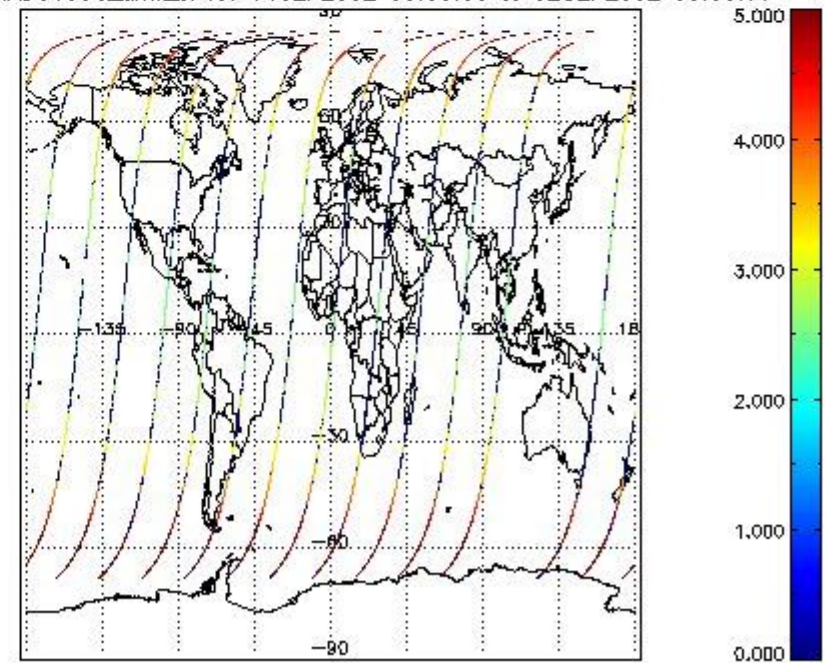
SCIOL2P\_NADUV003\_vcd\_err for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



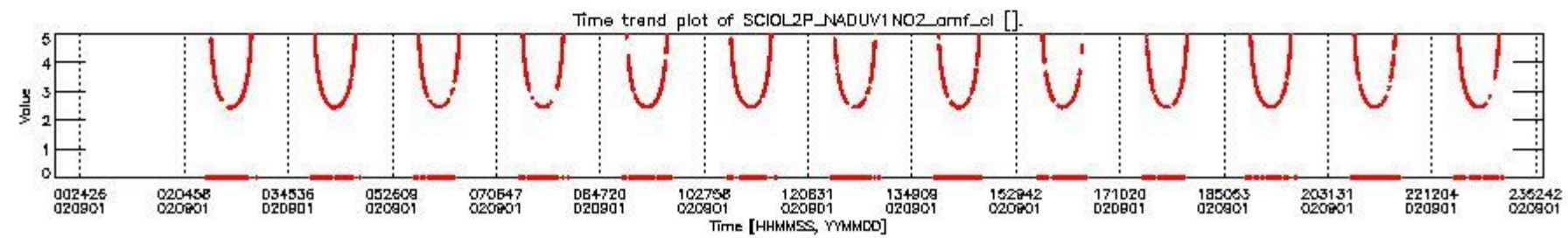
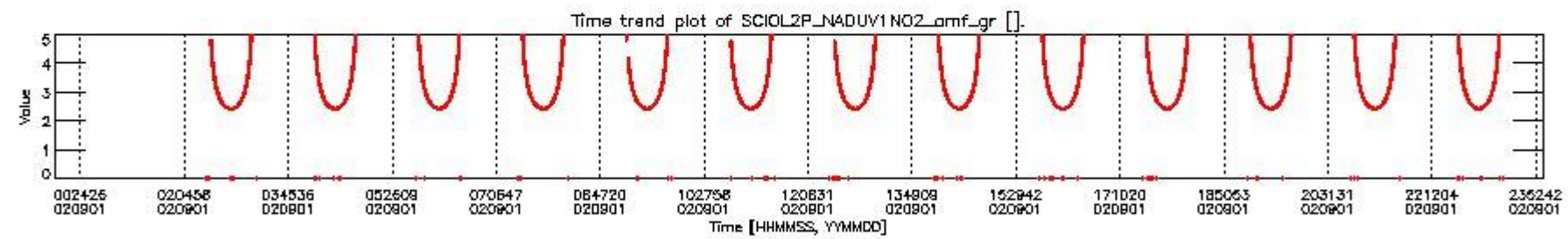
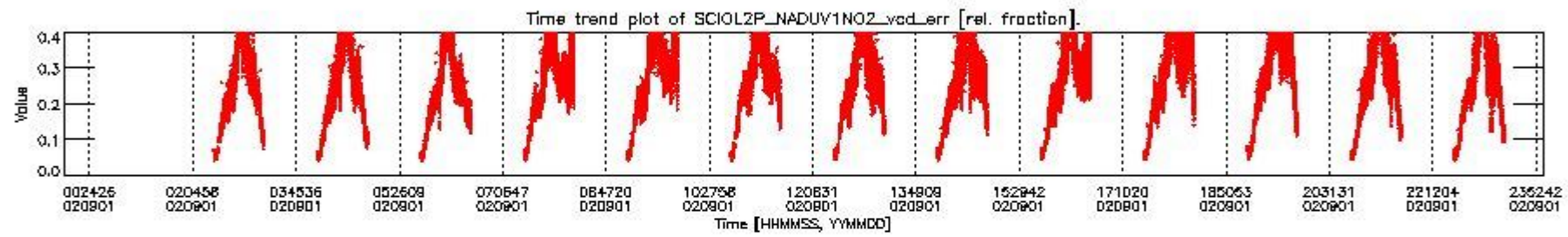
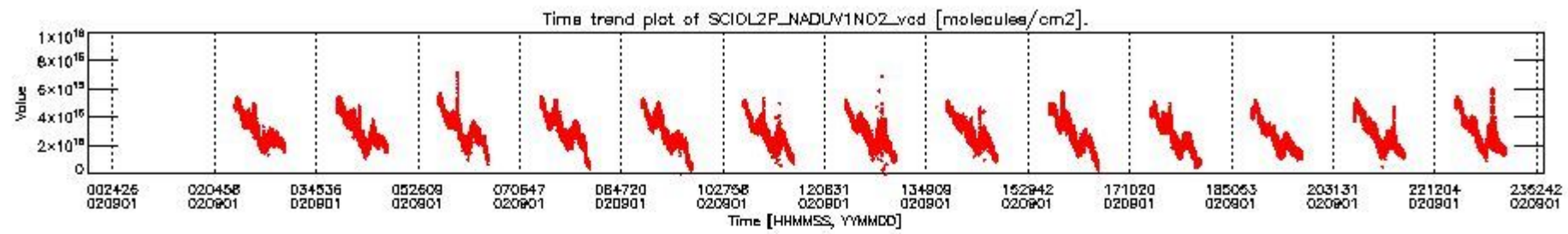
SCIOL2P\_NADUV003\_amf\_gr for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



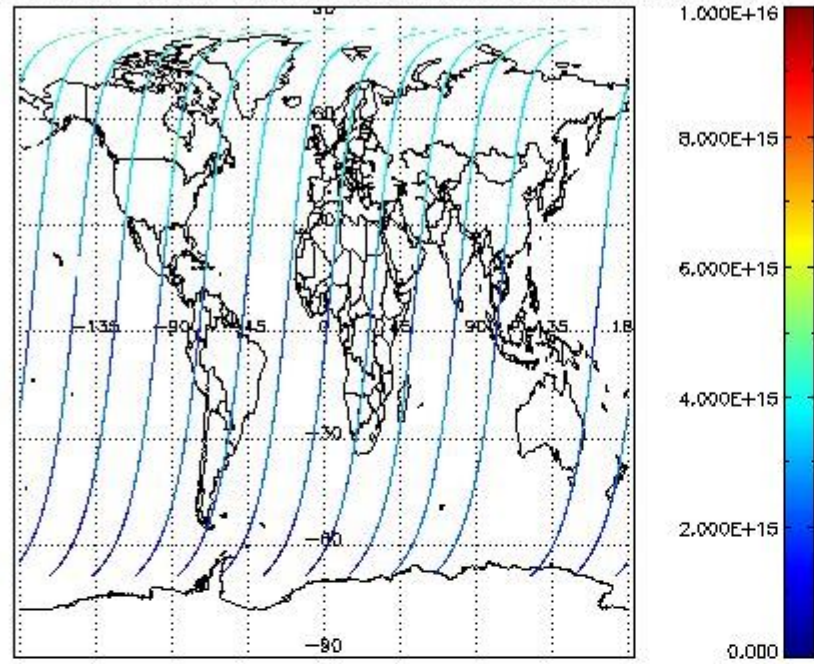
SCIOL2P\_NADUV003\_amf\_cl for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



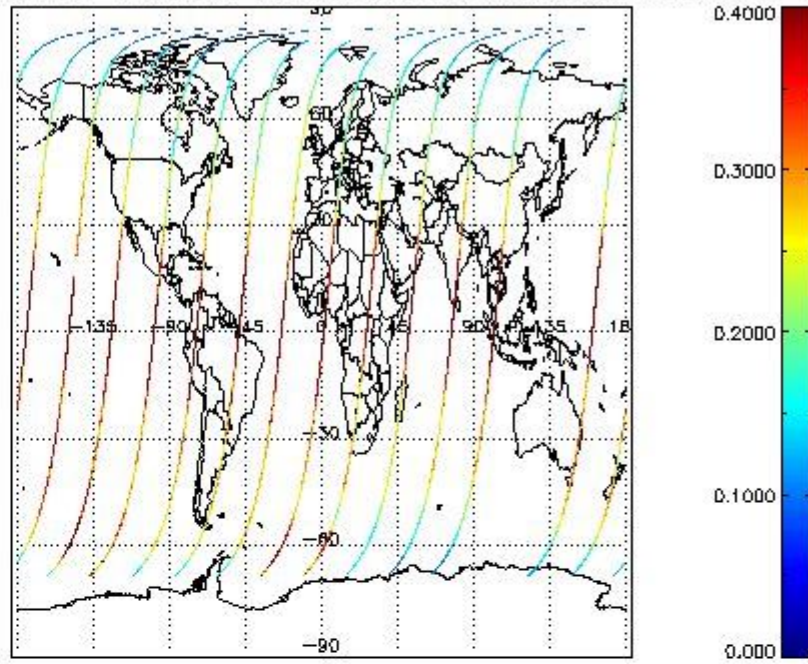
2.2.2.2 NO2 (UV1)



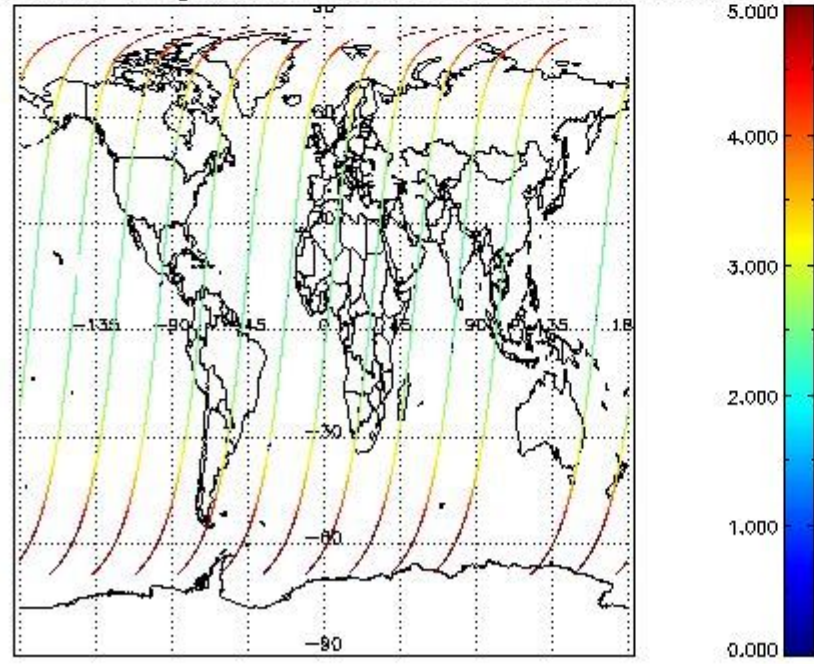
SCIOL2P\_NADUV1N02\_vcd for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



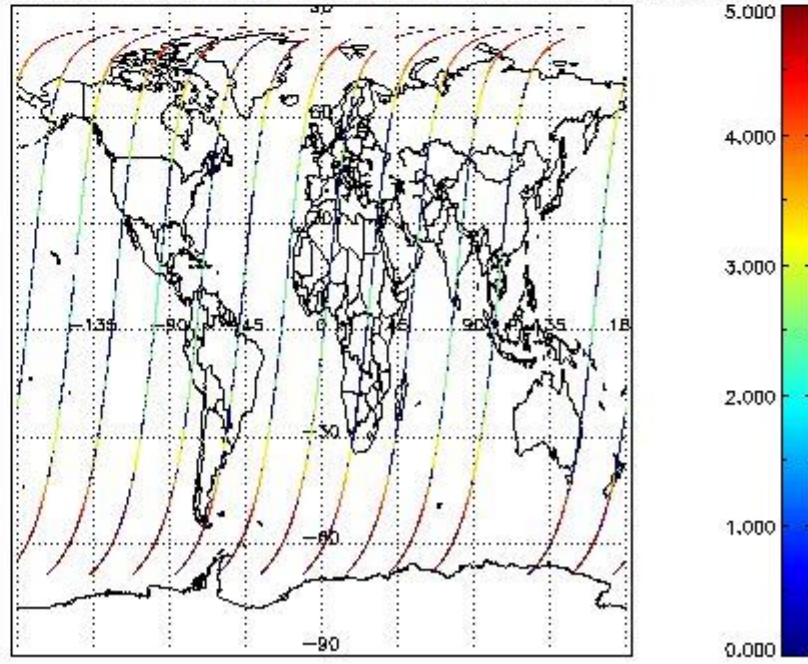
SCIOL2P\_NADUV1N02\_vcd\_err for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



SCIOL2P\_NADUV1N02\_amf\_gr for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

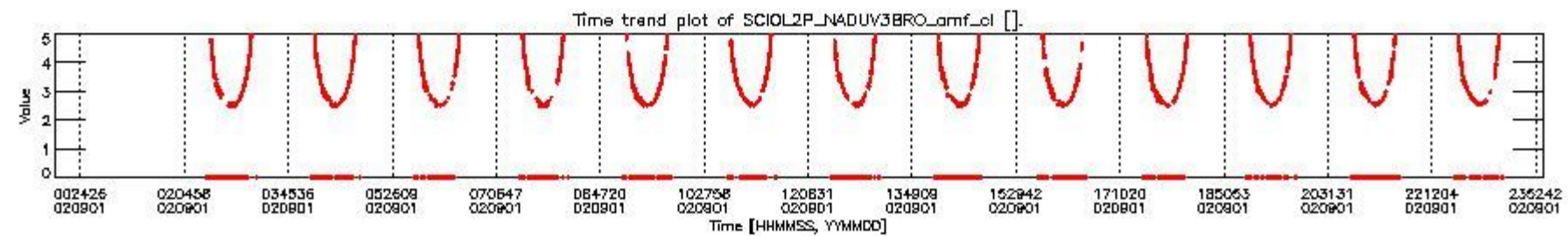
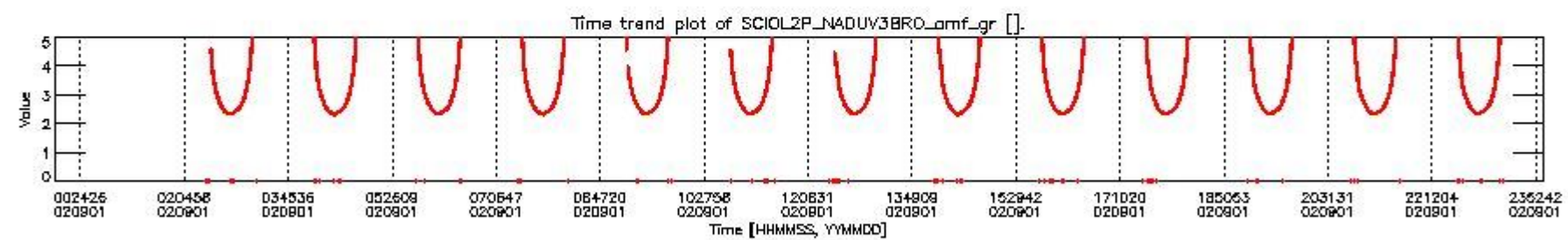
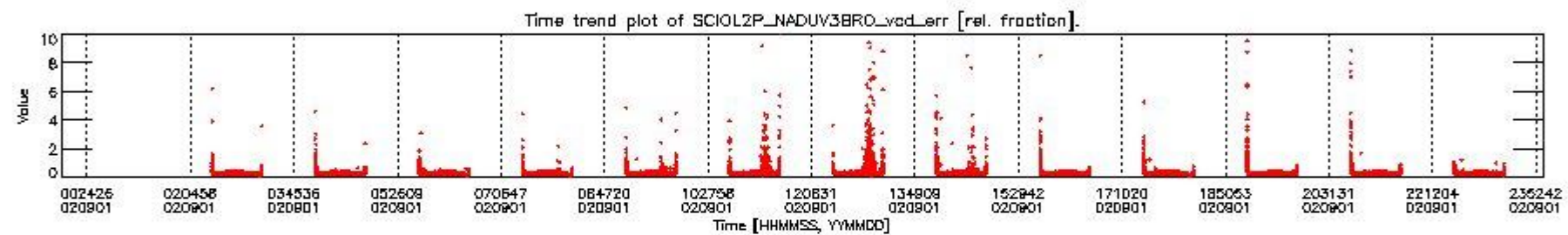
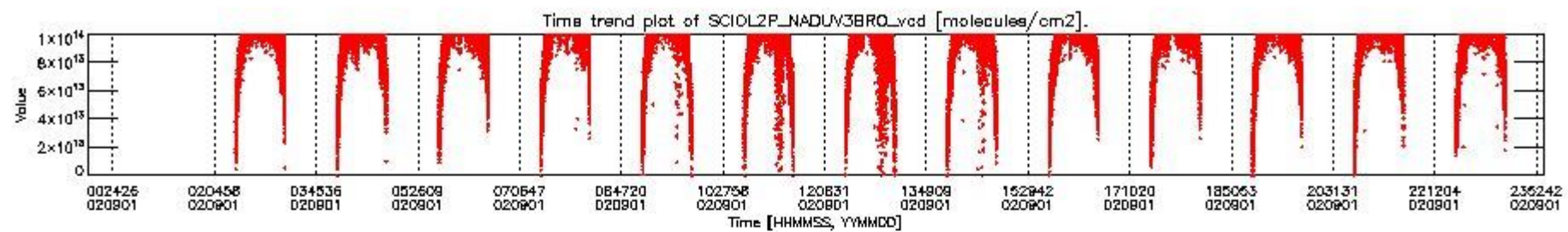


SCIOL2P\_NADUV1N02\_amf\_cl for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

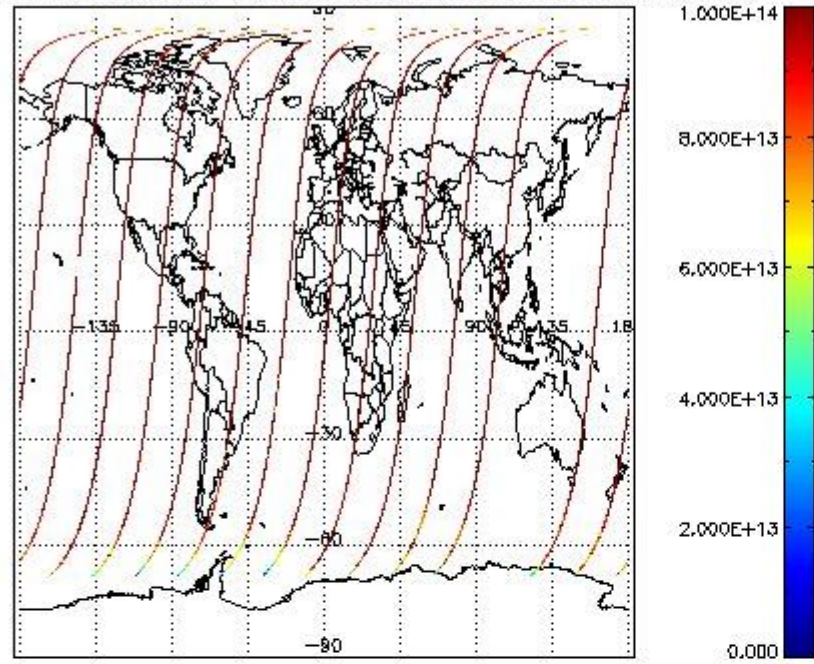


2.2.2.3 BrO (UV3)

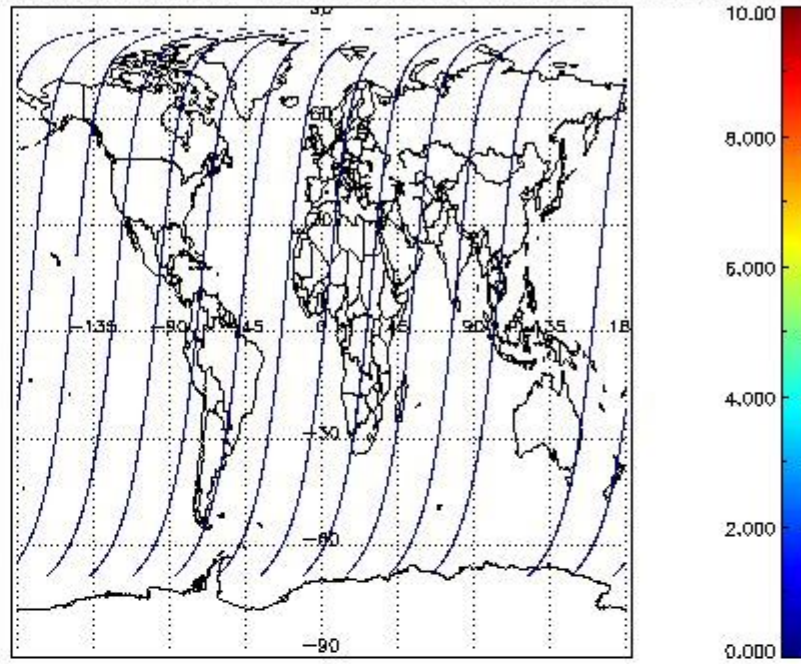




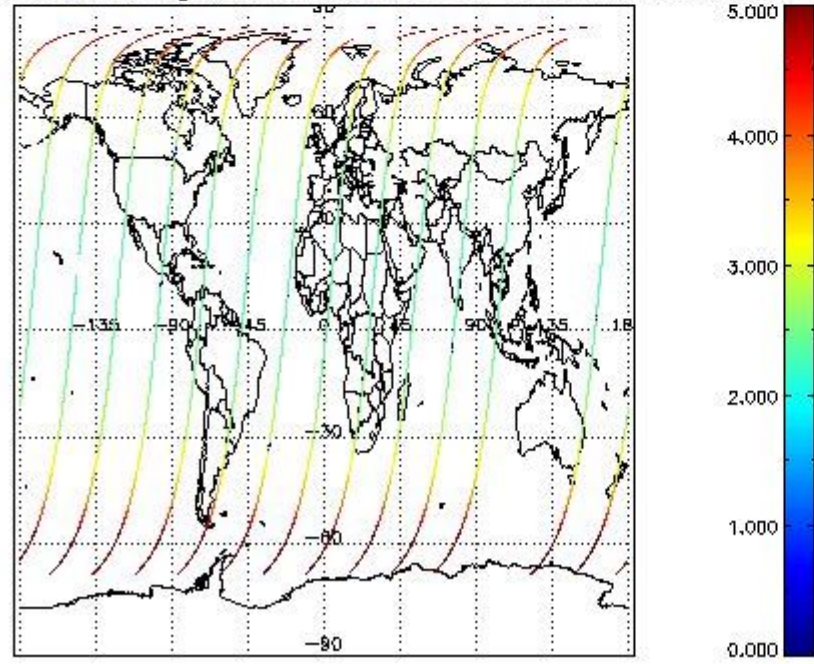
SCIOL2P\_NADUV3BRO\_vcd for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



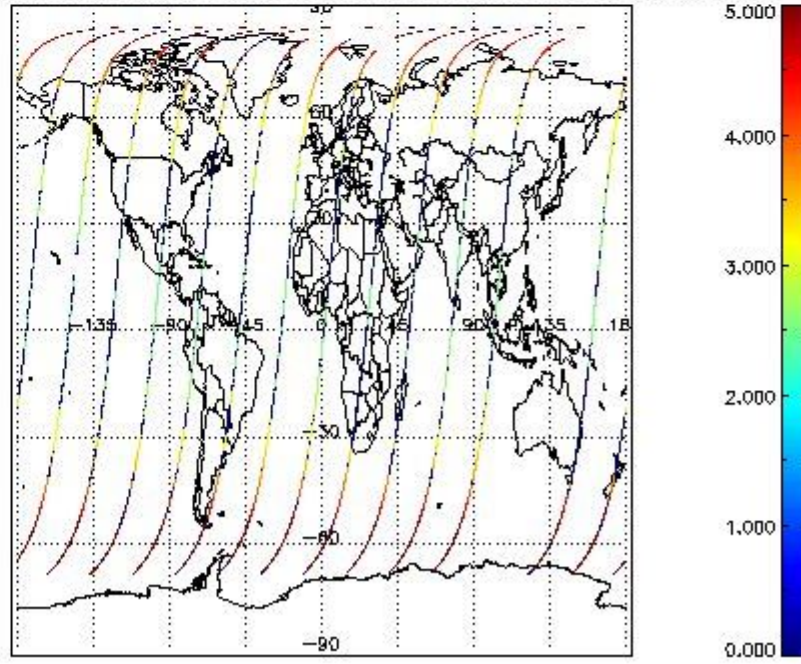
SCIOL2P\_NADUV3BRO\_vcd\_err for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



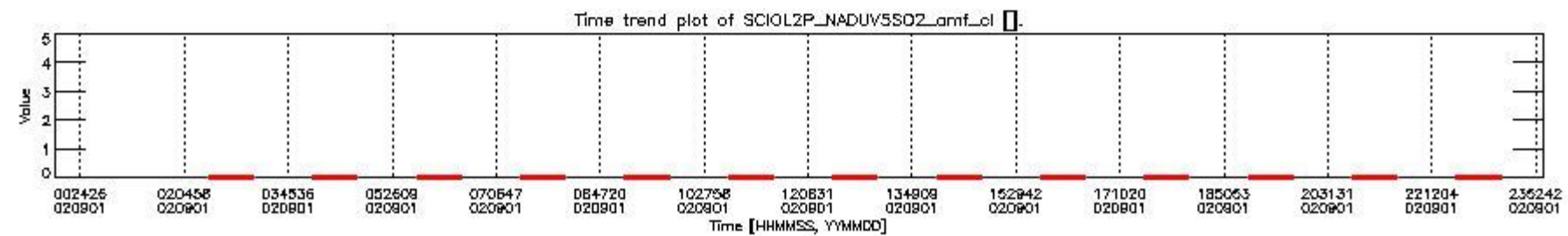
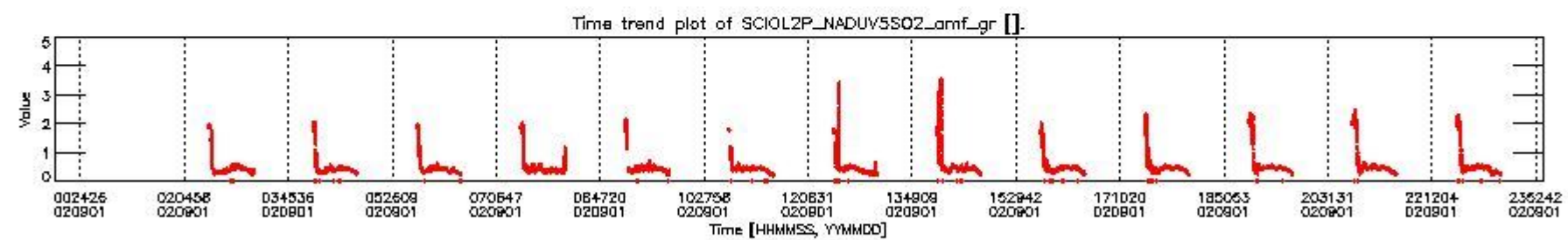
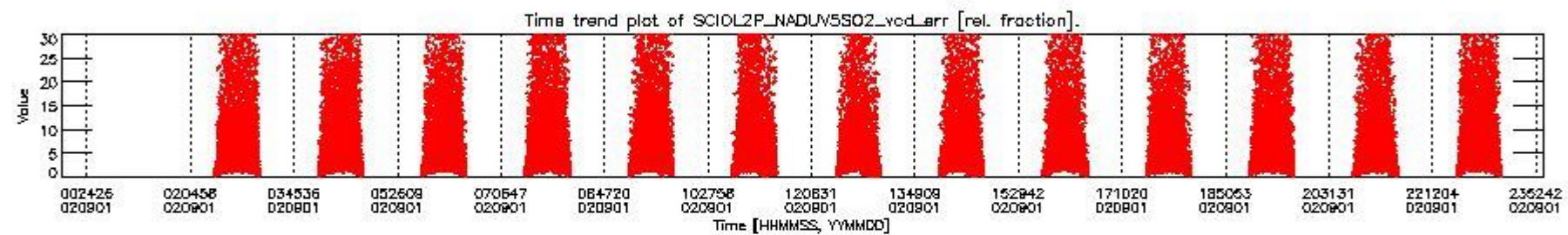
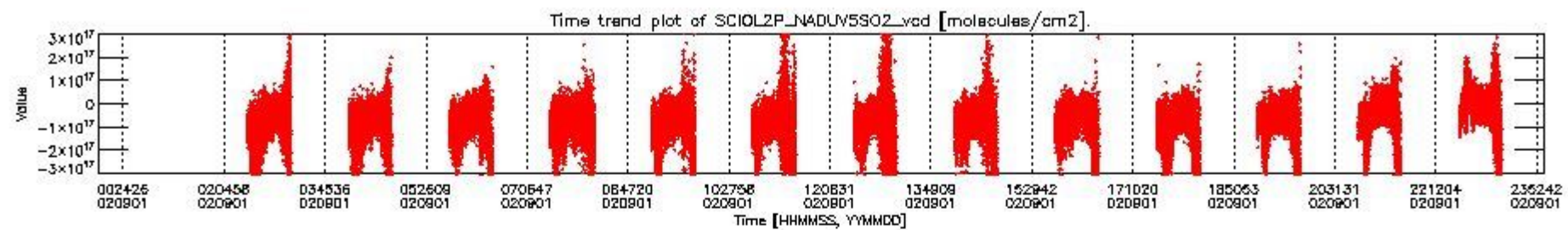
SCIOL2P\_NADUV3BRO\_amf\_gr for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



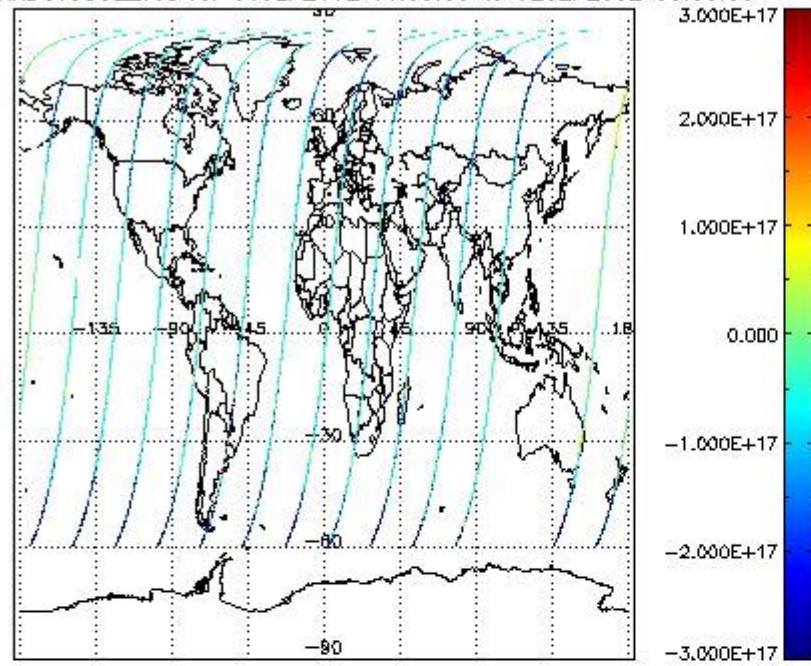
SCIOL2P\_NADUV3BRO\_amf\_cl for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



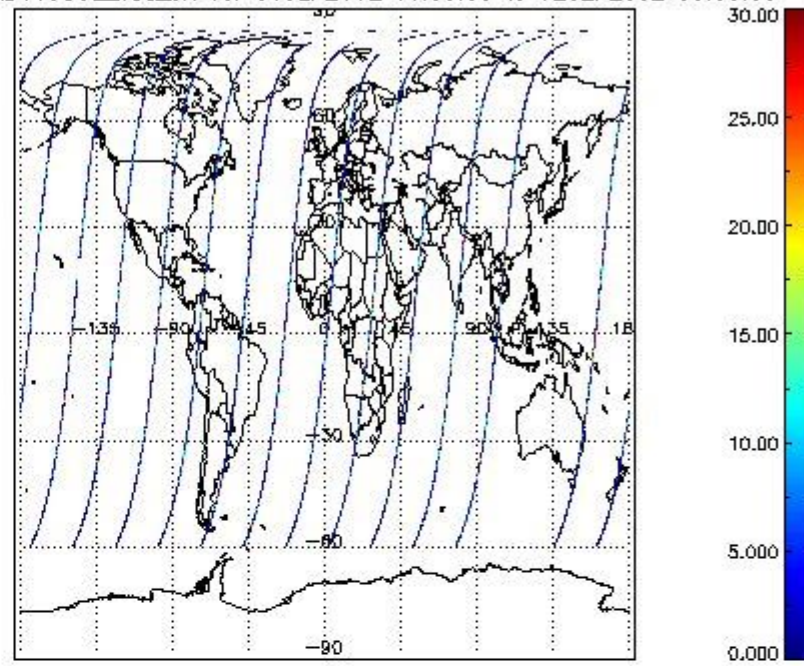
#### 2.2.2.4 SO2 (UV5)



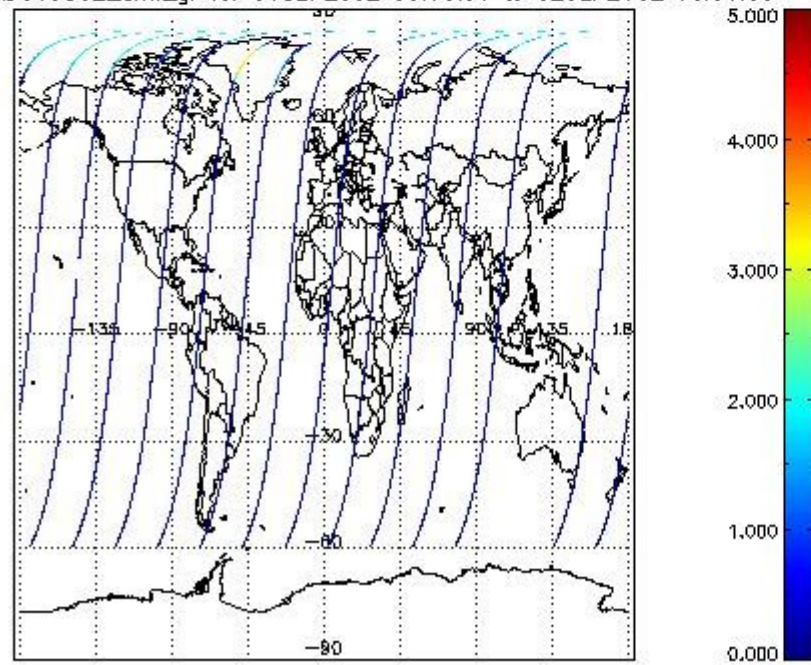
SCIOL2P\_NADUV5S02\_vcd for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



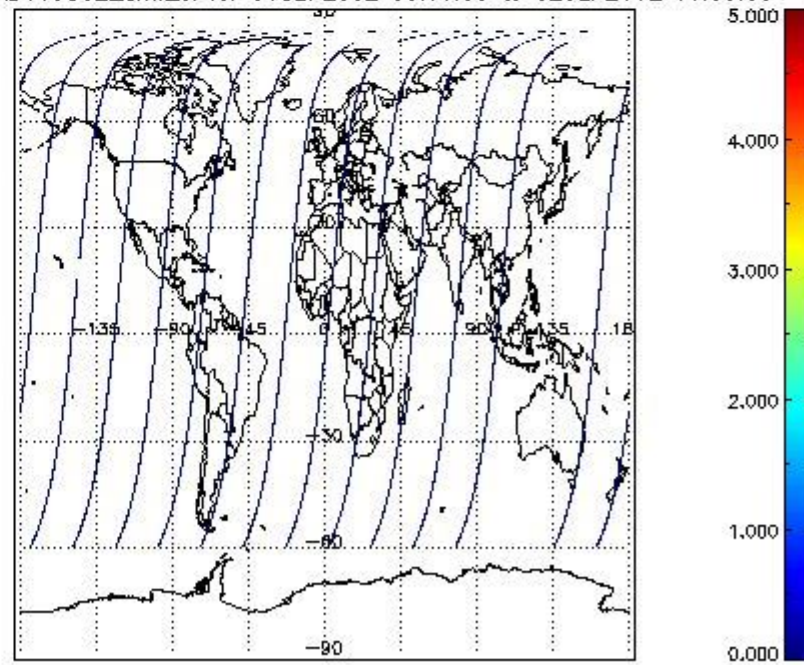
SCIOL2P\_NADUV5S02\_vcd\_err for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



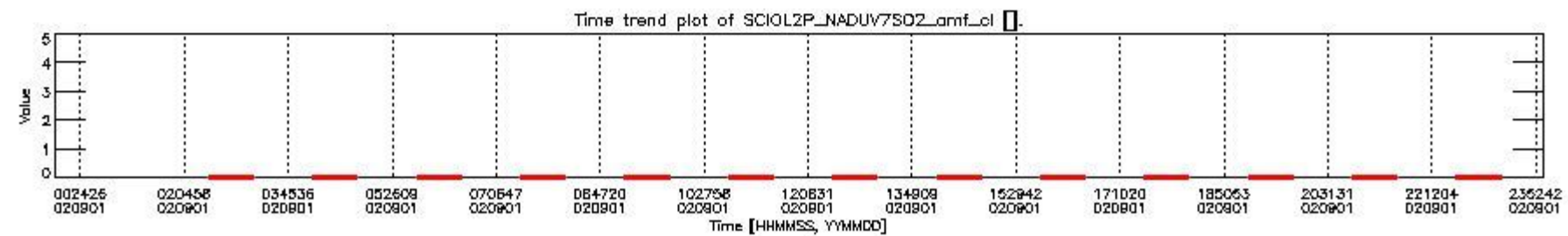
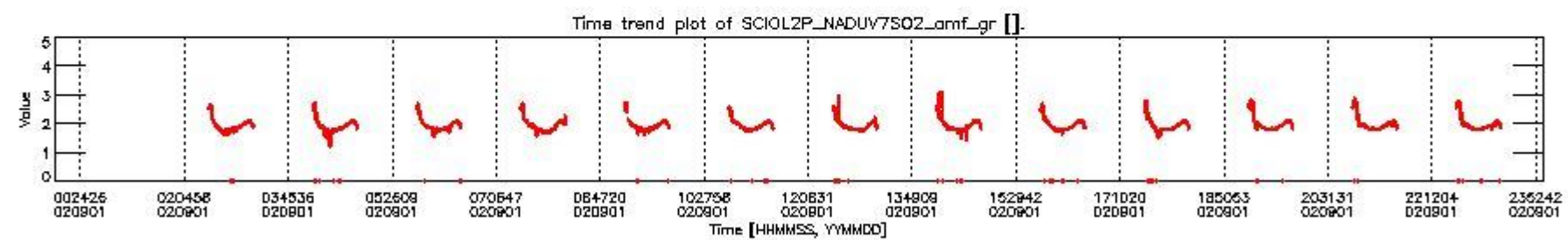
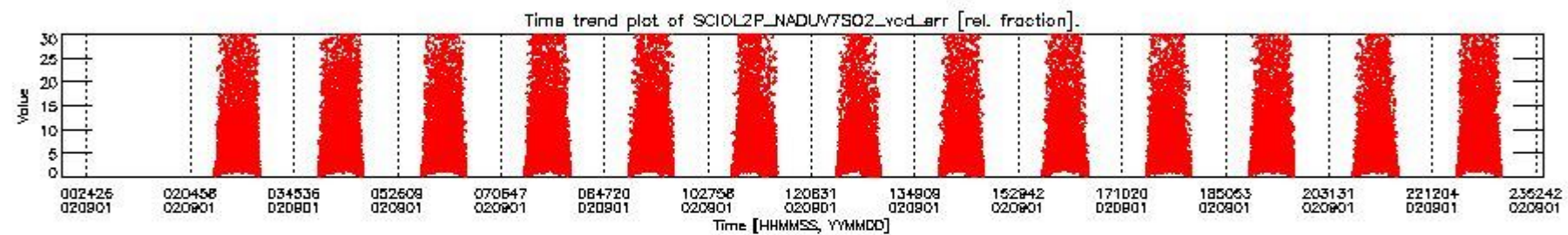
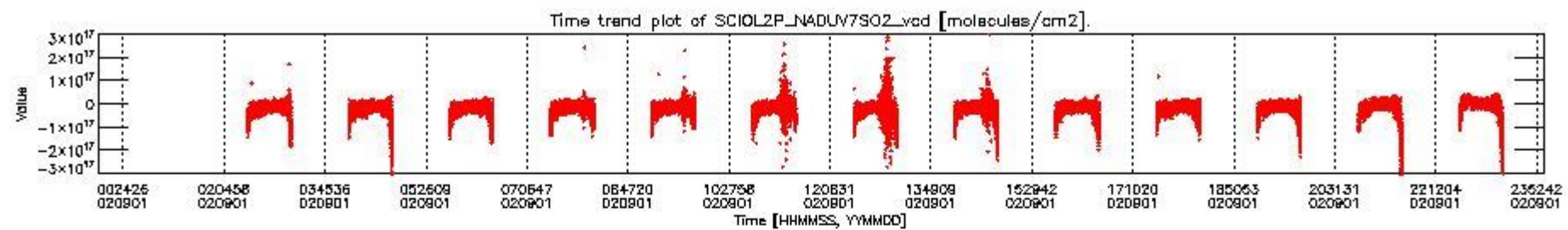
SCIOL2P\_NADUV5S02\_amf\_gr for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



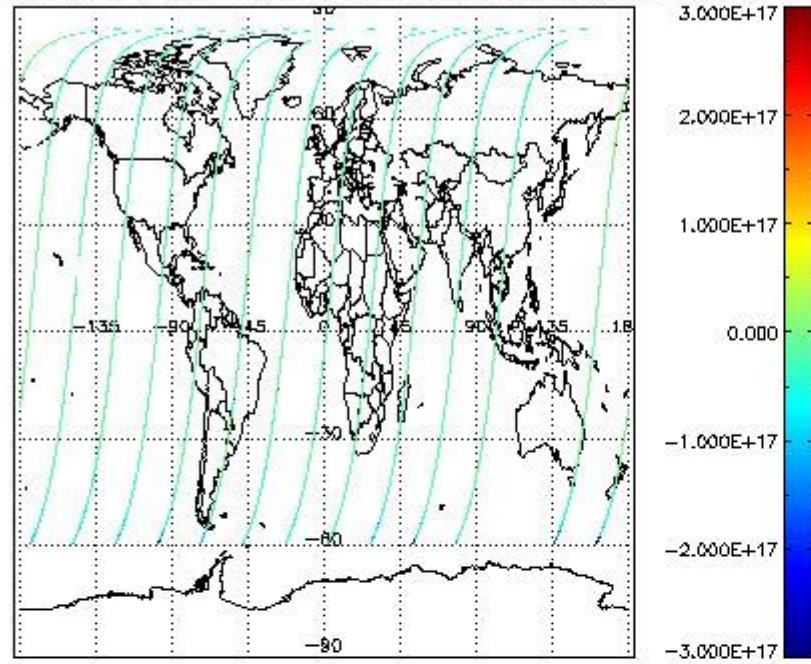
SCIOL2P\_NADUV5S02\_amf\_cl for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



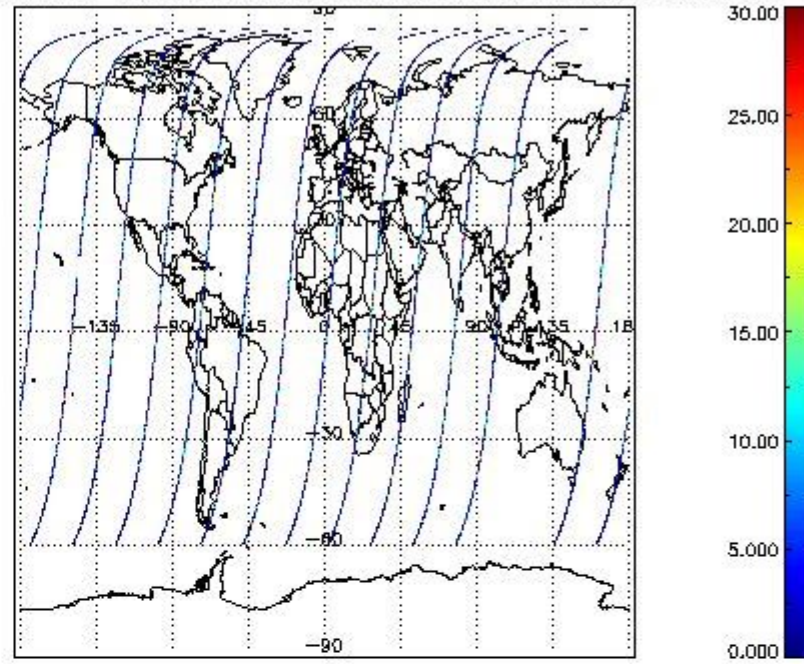
2.2.2.5 SO2 (UV7)



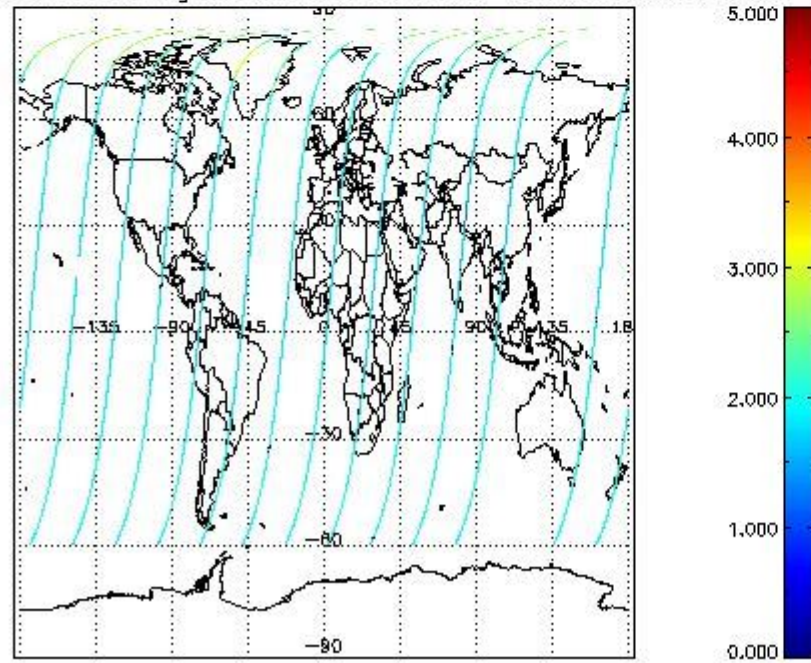
SCIOL2P\_NADUV7S02\_vcd for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



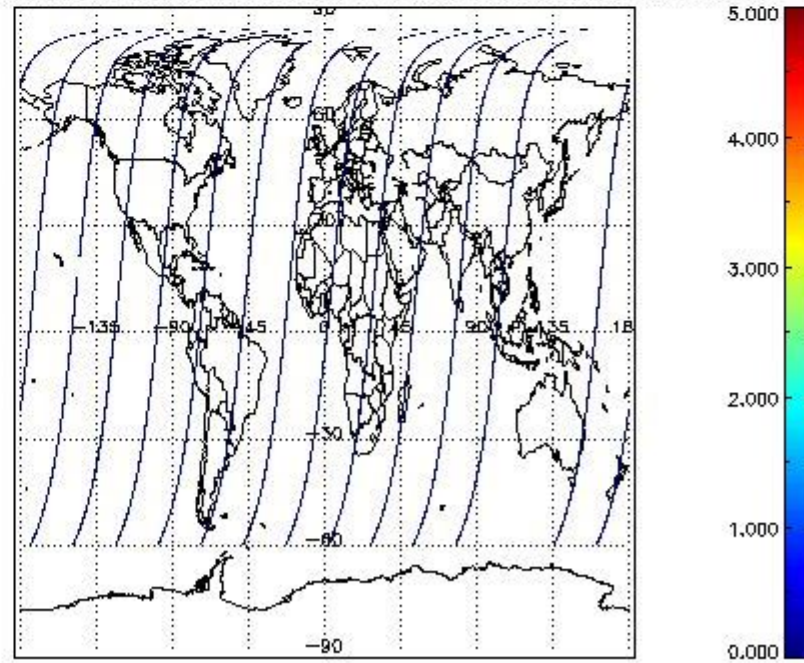
SCIOL2P\_NADUV7S02\_vcd\_err for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



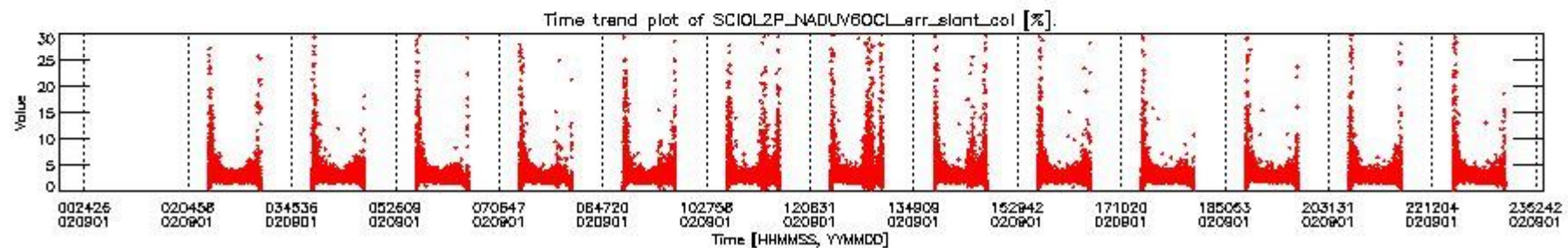
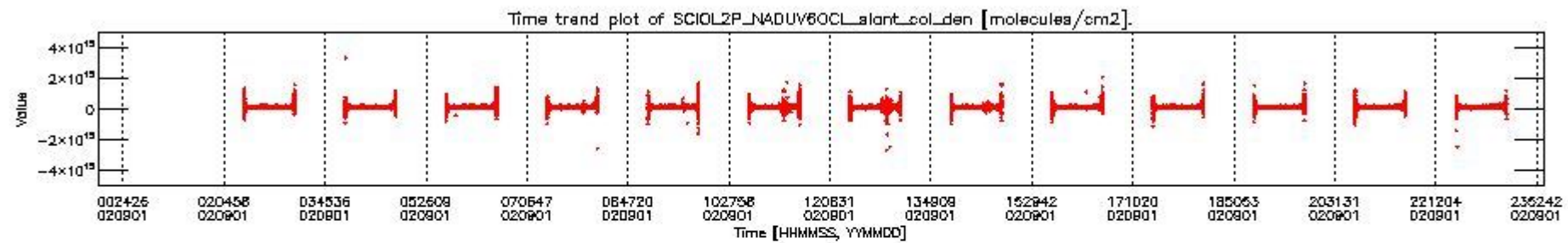
SCIOL2P\_NADUV7S02\_amf\_gr for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



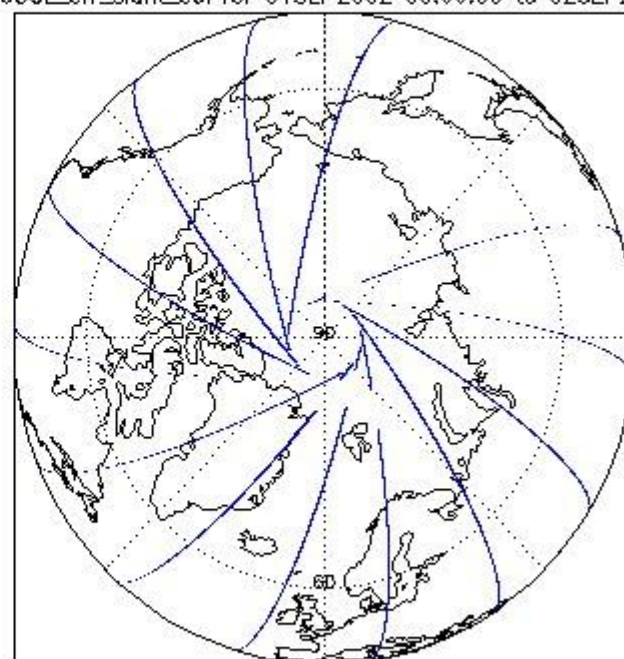
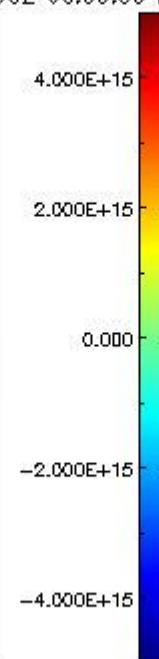
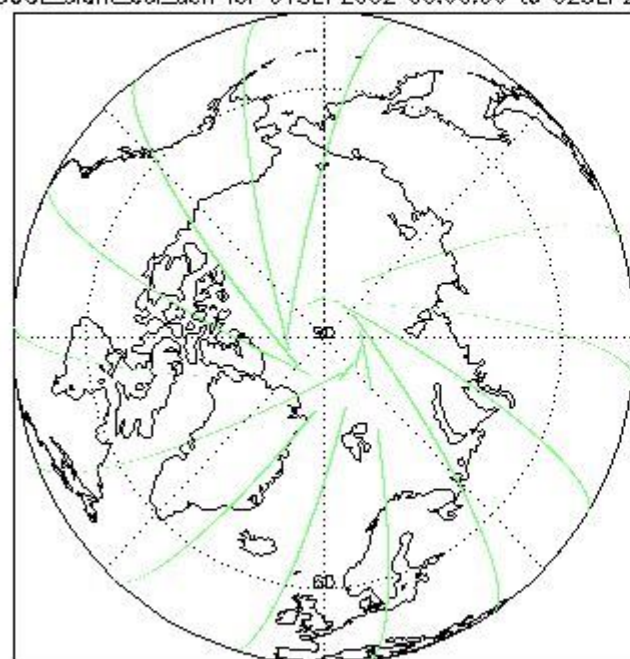
SCIOL2P\_NADUV7S02\_amf\_cl for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



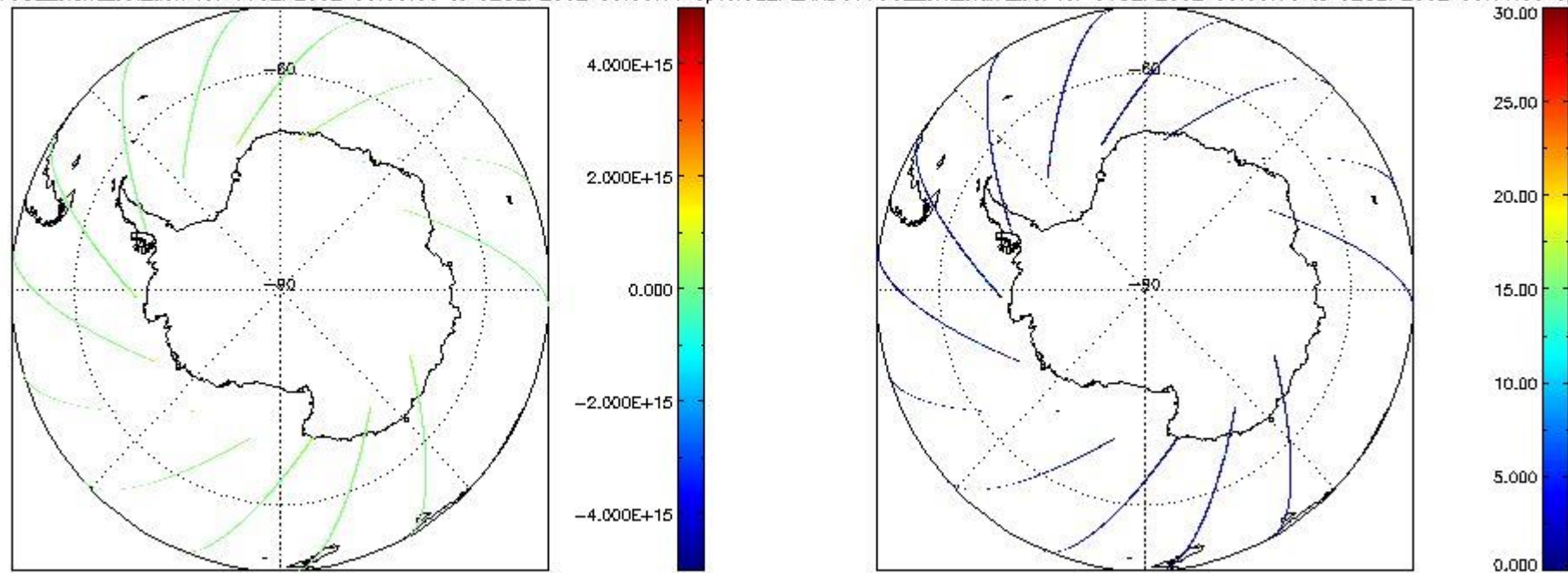
### 2.2.2.6 OCIO (UV6)



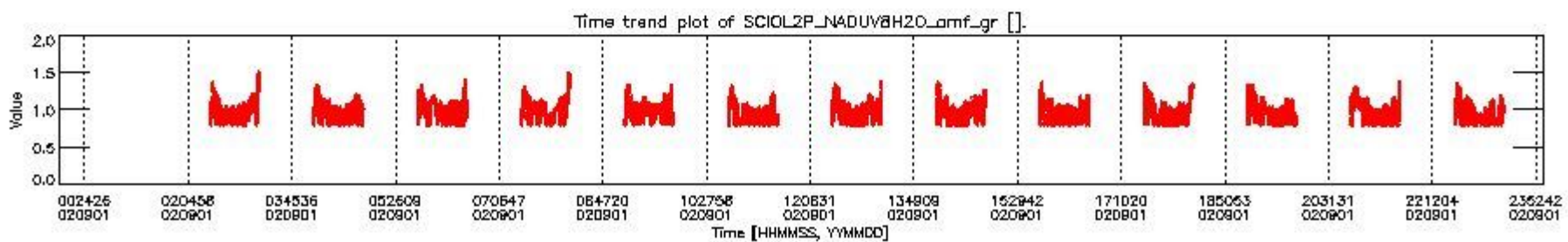
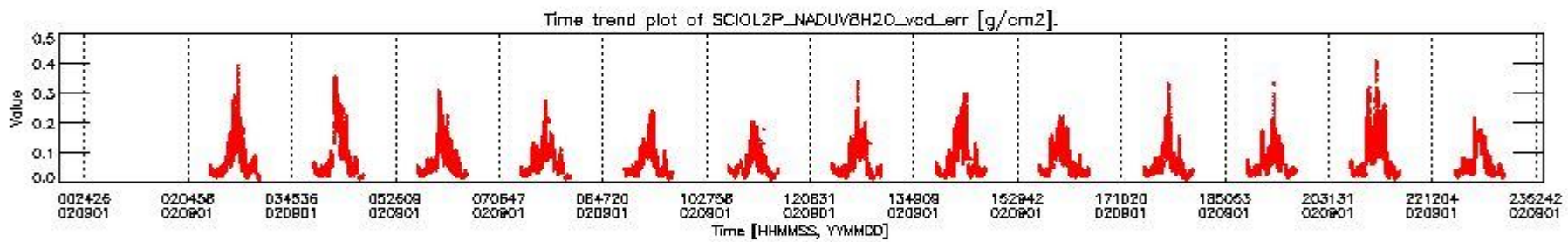
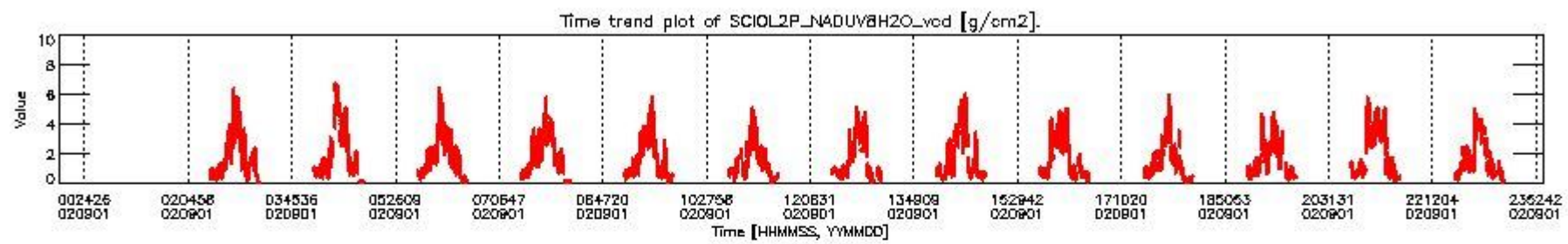
CIOL2P\_NADUV6OCLslant\_col\_den for 01SEP2002 00:00:00 to 02SEP2002 00:00:00 np; CIOL2P\_NADUV6OCLarr\_slant\_col for 01SEP2002 00:00:00 to 02SEP2002 00:00:00 np



CIOL2P\_NADUV60CL\_slant\_col\_den for 01SEP2002 00:00:00 to 02SEP2002 00:00:00 sp | CIOL2P\_NADUV60CL\_err\_slant\_col for 01SEP2002 00:00:00 to 02SEP2002 00:00:00 sp

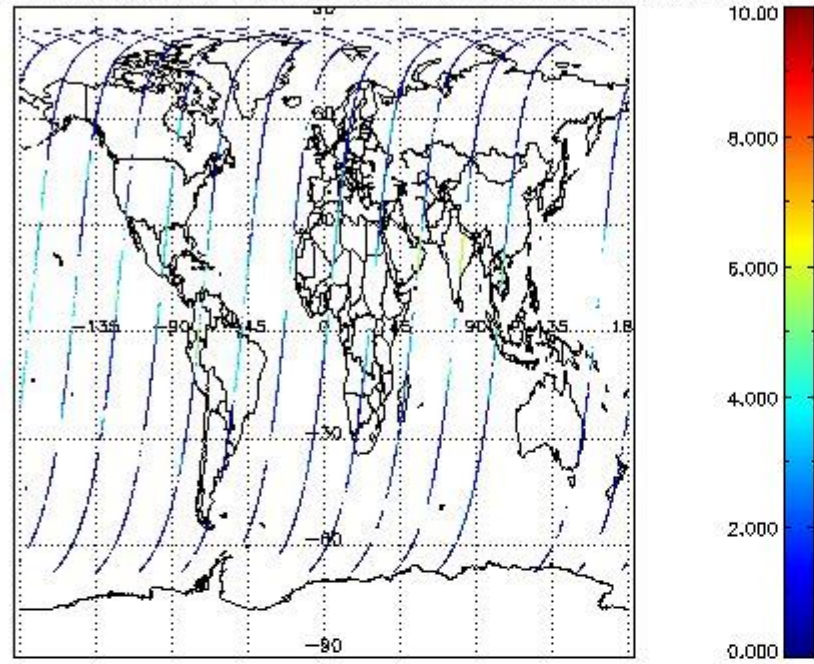


### 2.2.2.7 H<sub>2</sub>O (UV8)

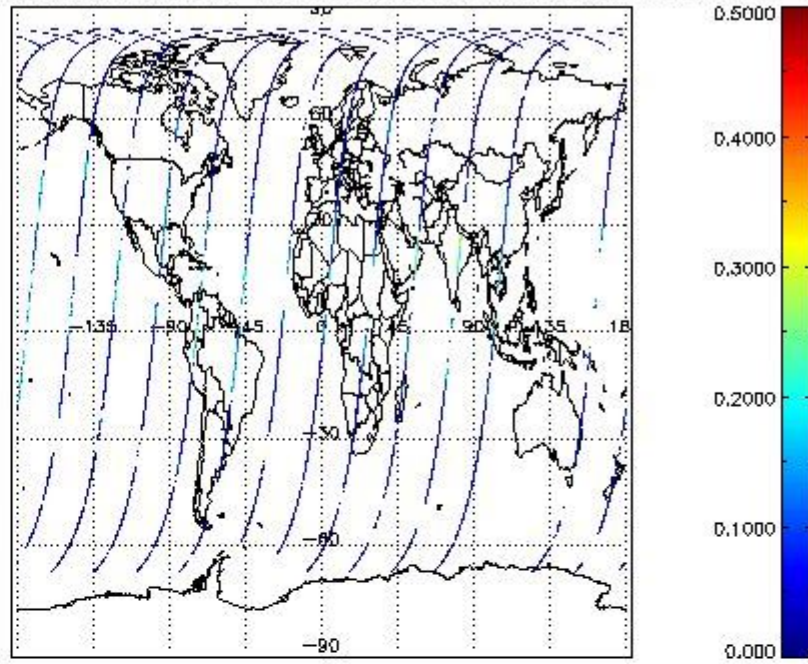




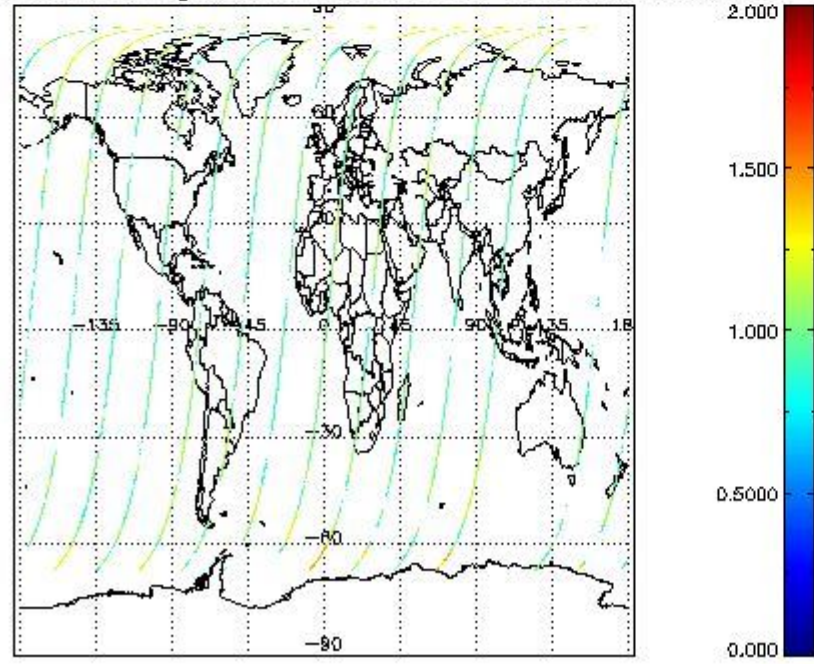
SCIOL2P\_NADUV8H2O\_vcd for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



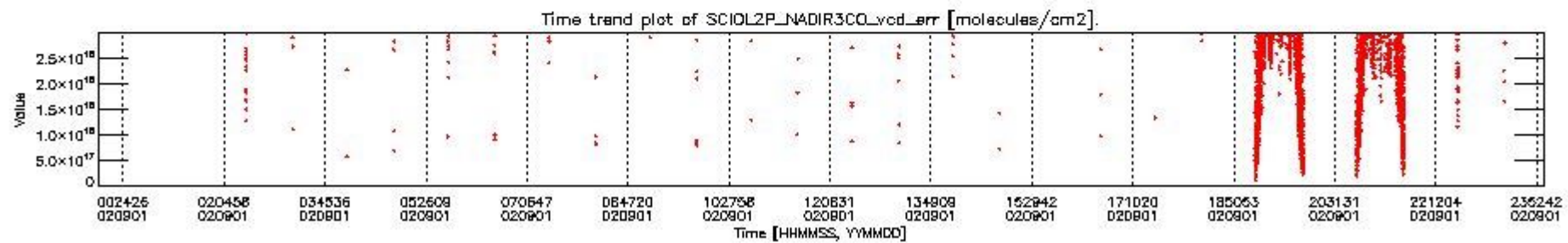
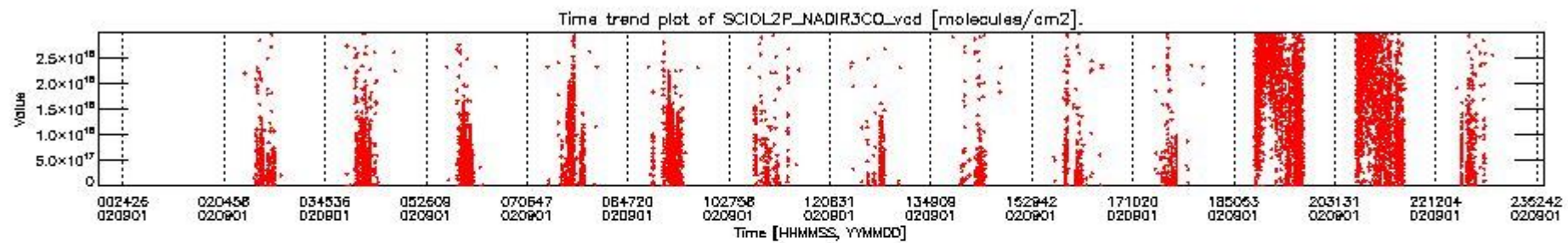
SCIOL2P\_NADUV8H2O\_vcd\_err for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



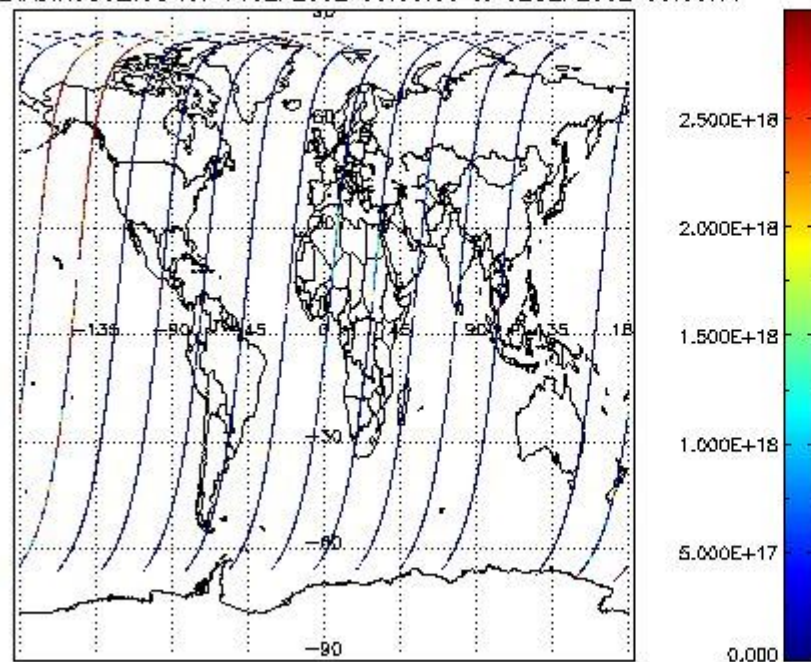
SCIOL2P\_NADUV8H2O\_arnf\_gr for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



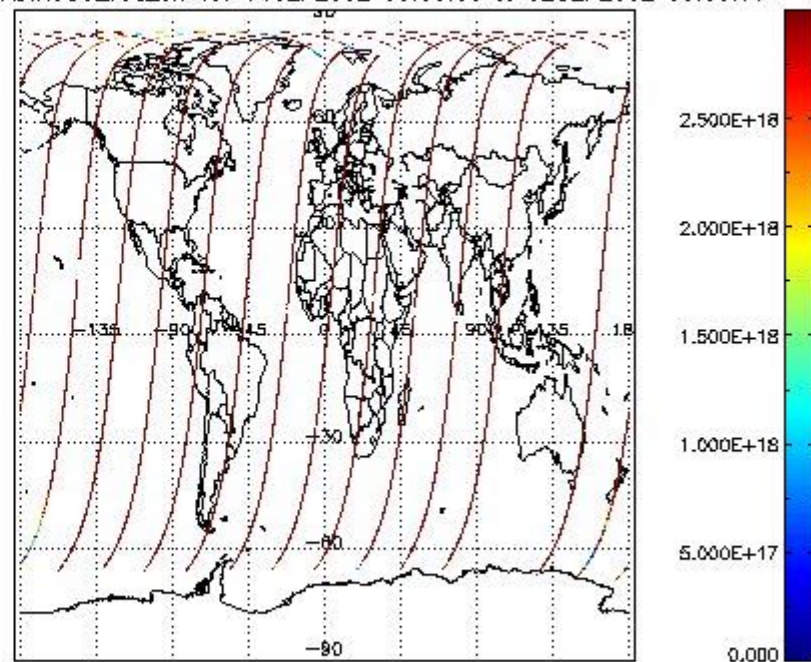
### 2.2.2.8 CO (IR3)



SCIOL2P\_NADIR3CO\_vcd for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



SCIOL2P\_NADIR3CO\_vcd\_err for 01SEP2002 00:00:00 to 02SEP2002 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	No data available

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)

No data available for O3 (UV0)

### 2.2.3.2 NO2 (UV1)

No data available for NO2 (UV1)

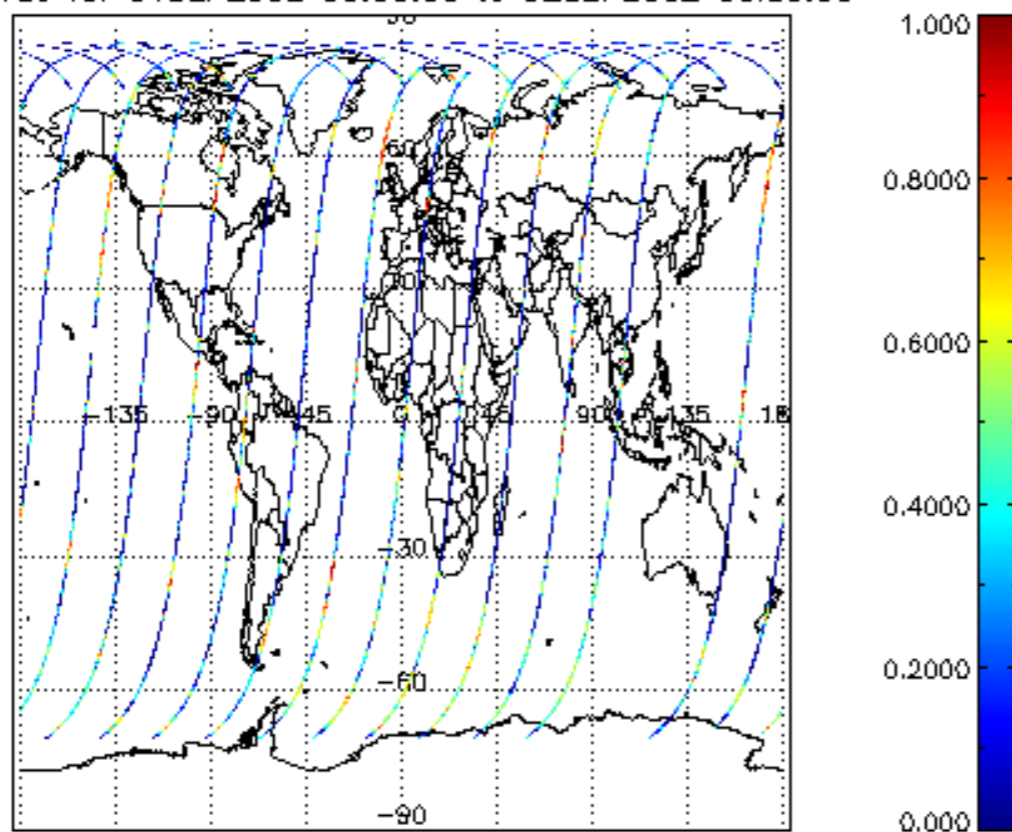
### 2.2.3.3 BrO (UV3)

No data available for BrO (UV3)

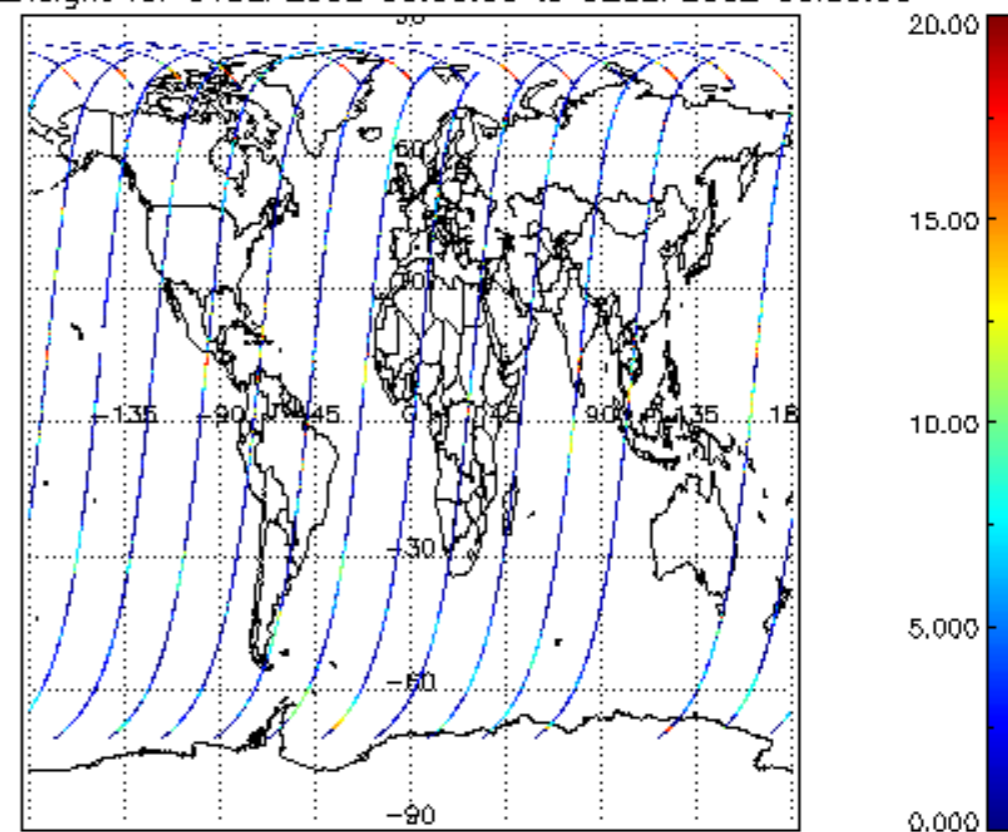
## 2.3 ADF monitoring

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_132722_20020831_191123_20020902_191123
3	SCI_MF1_AXNIEC20100218_132824_20020901_165910_20020903_165910

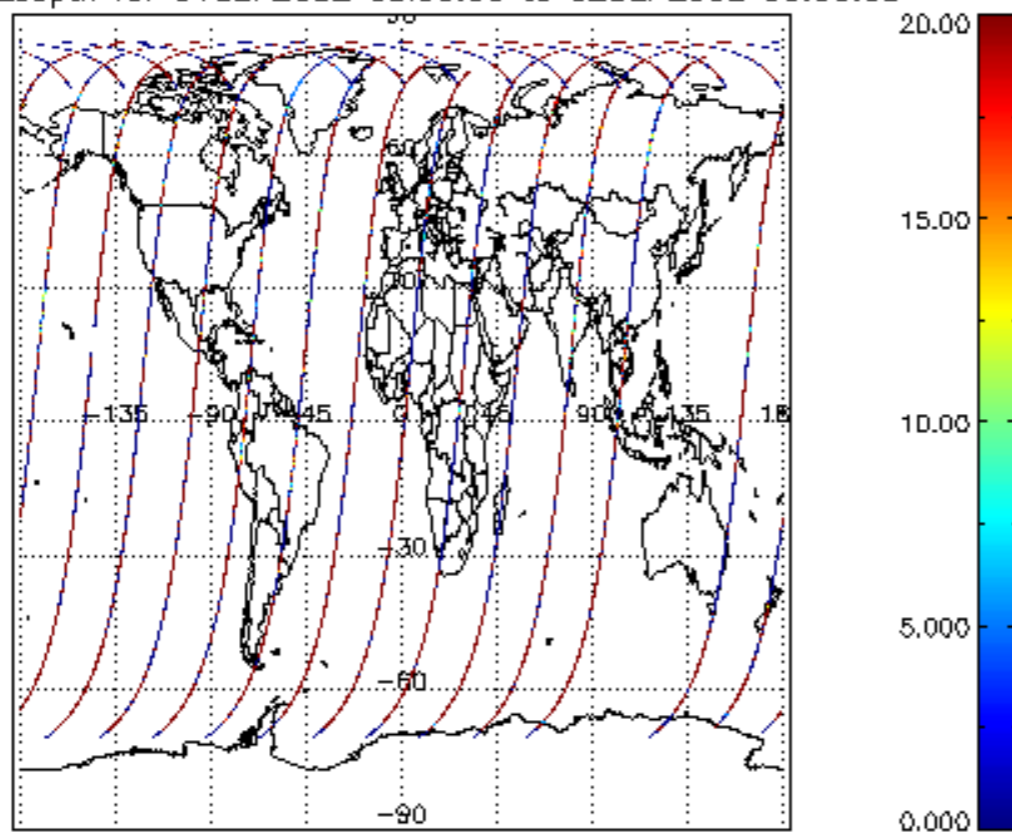
cl\_frac for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



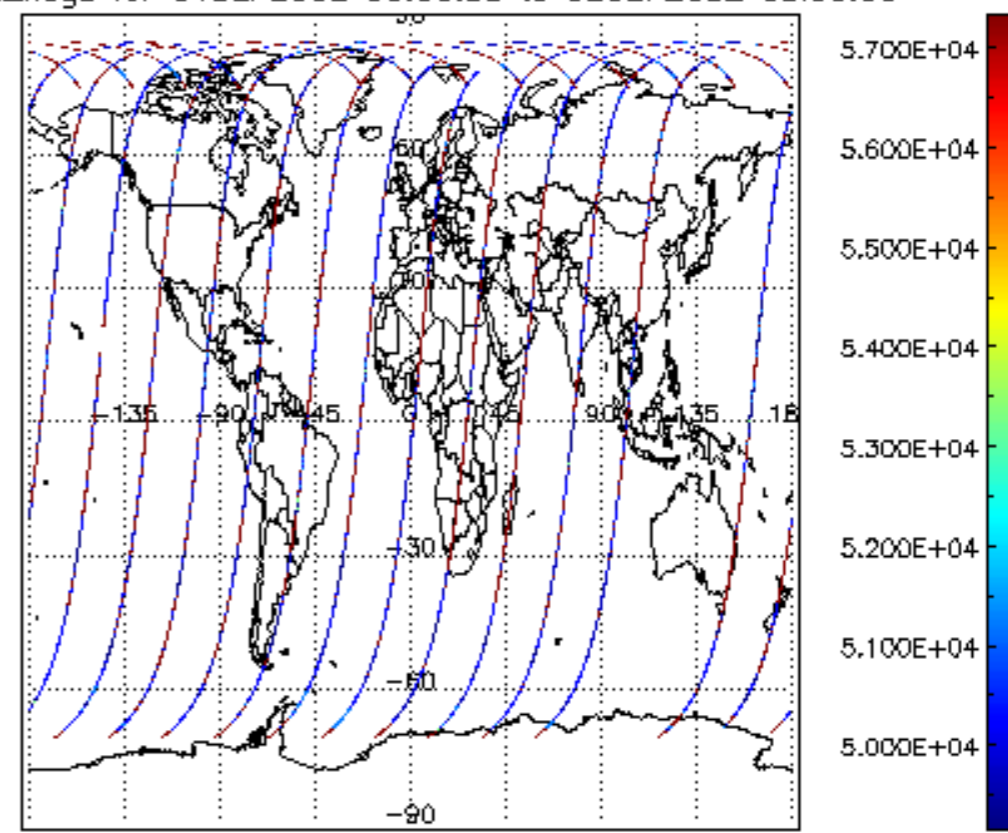
cl\_top\_height for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

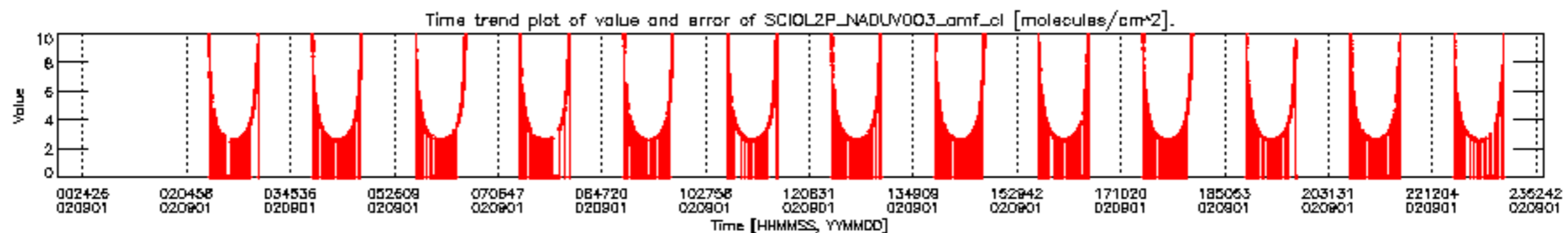
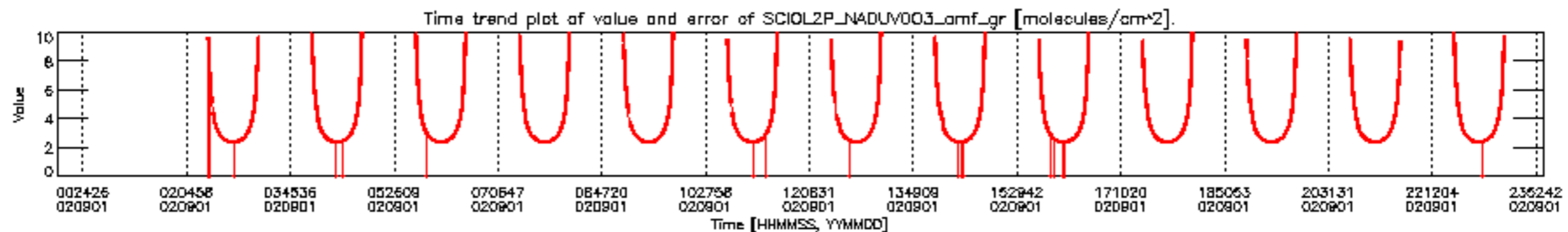
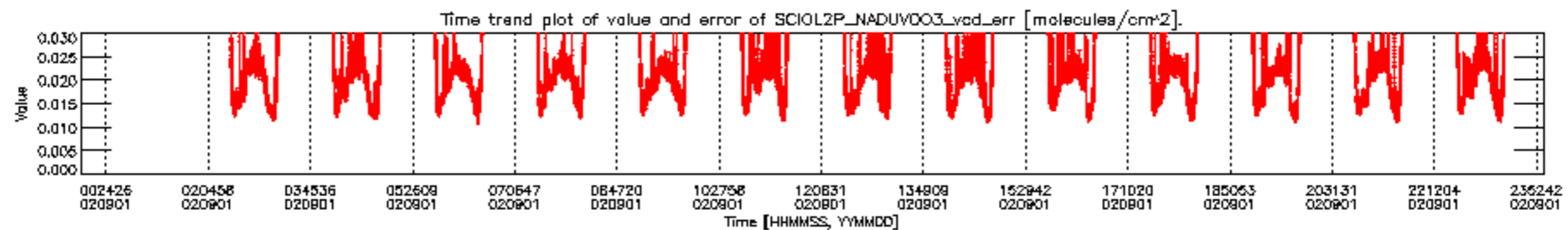
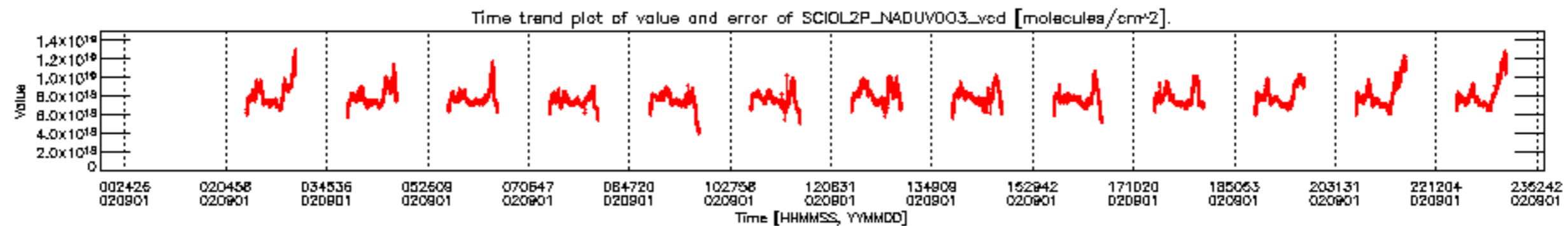


cl\_opt\_depth for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

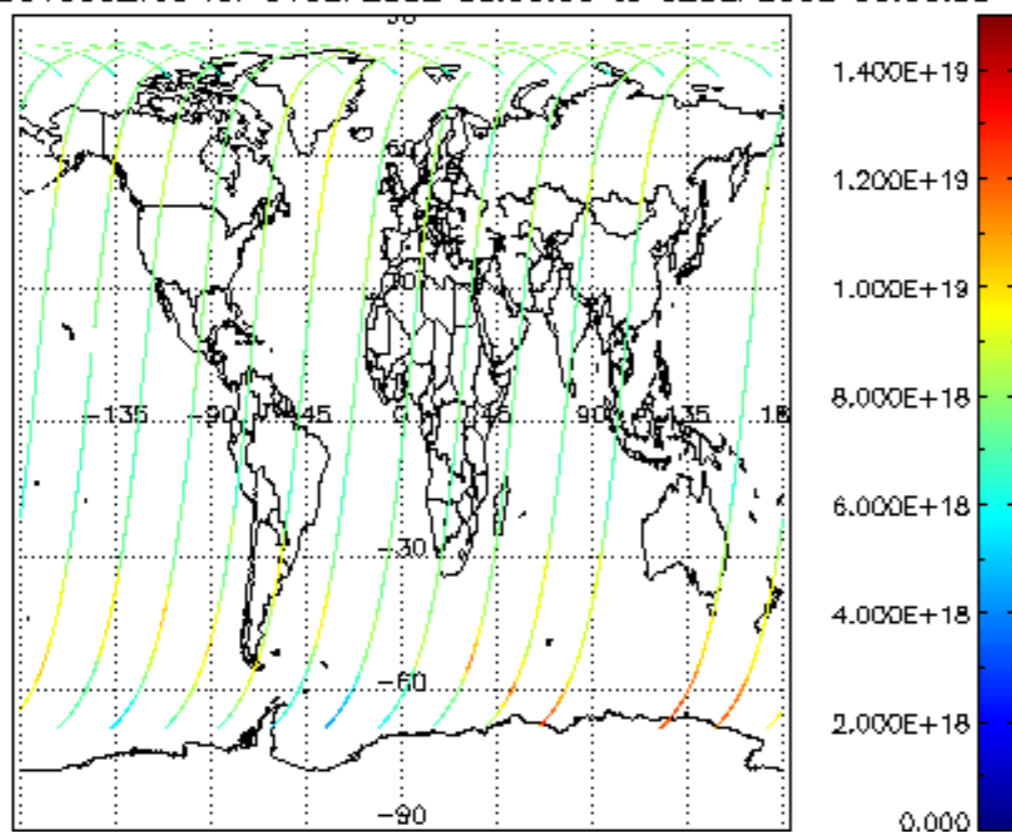


cloud\_flags for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

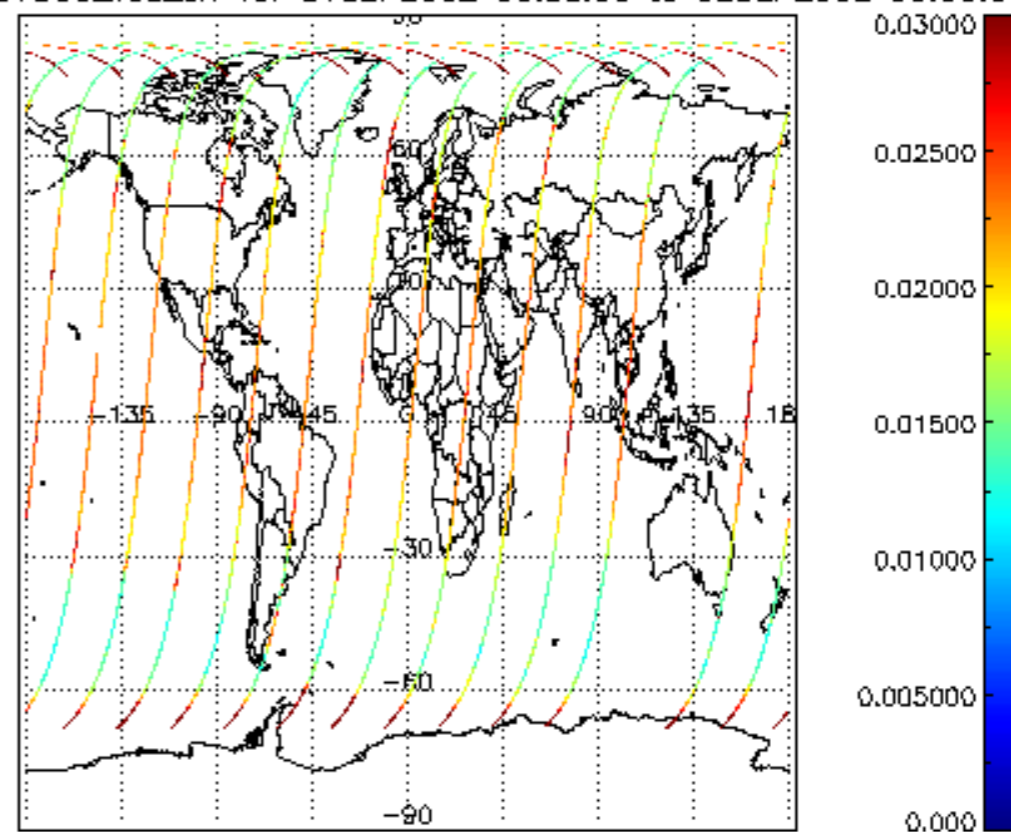




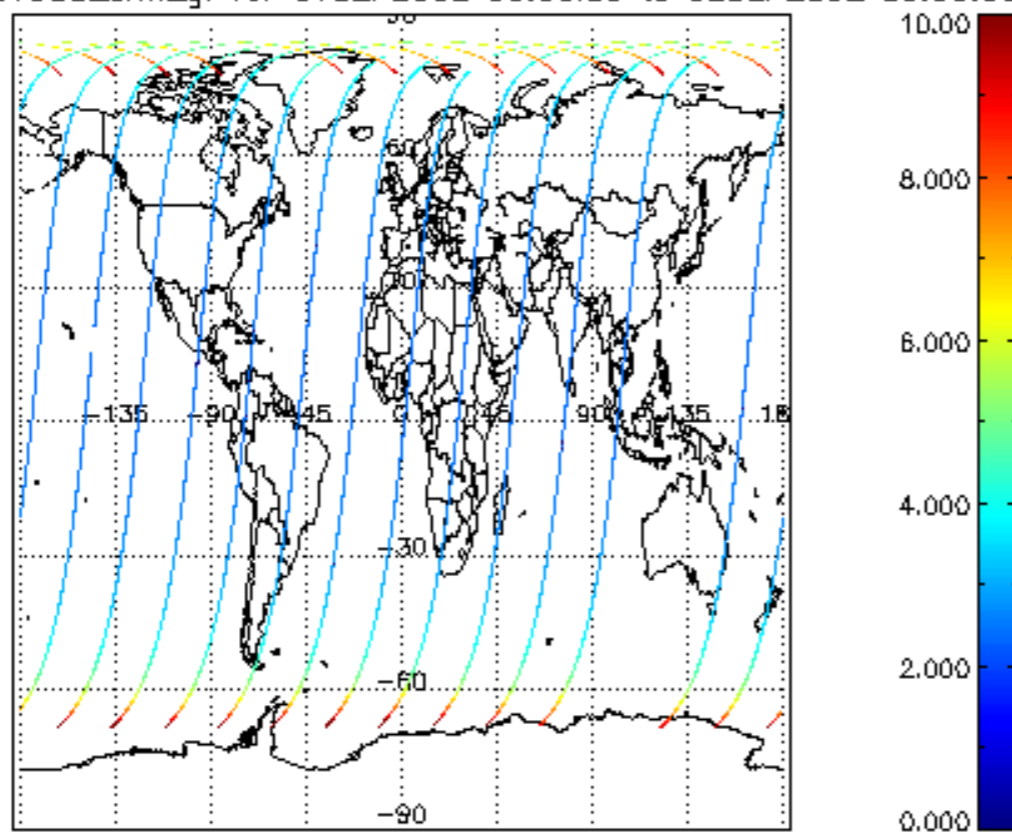
SCIOL2P\_NADUV003\_vcd for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



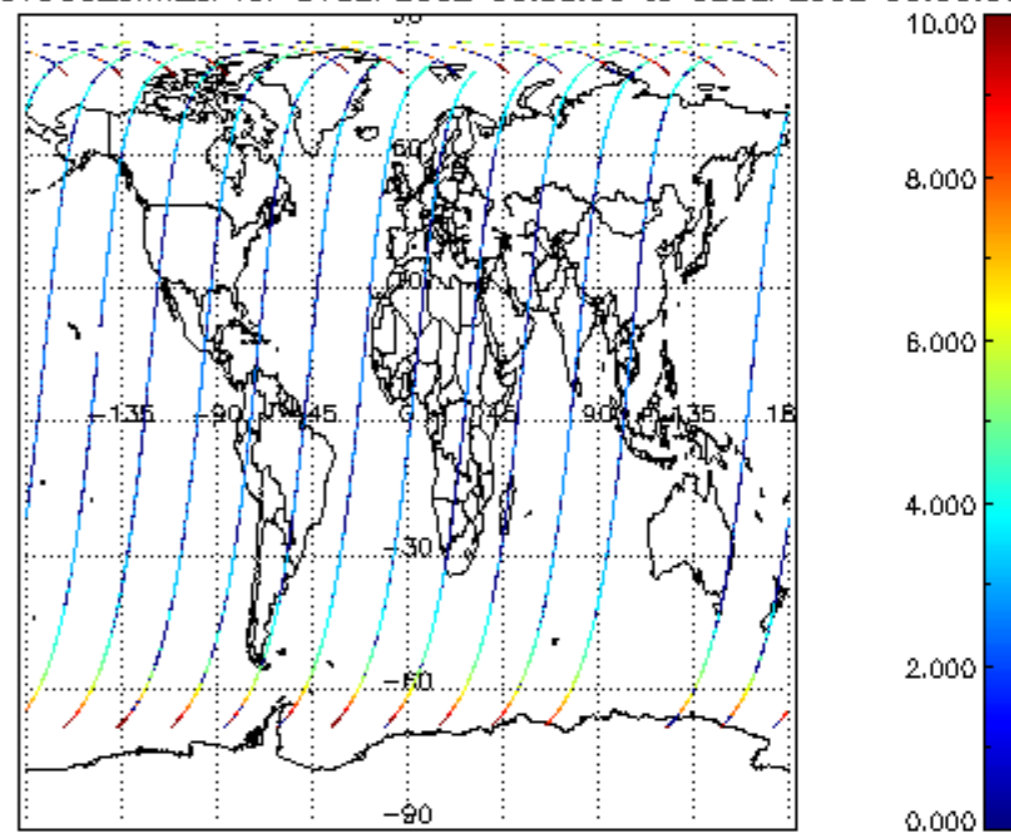
SCIOL2P\_NADUV003\_vcd\_err for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

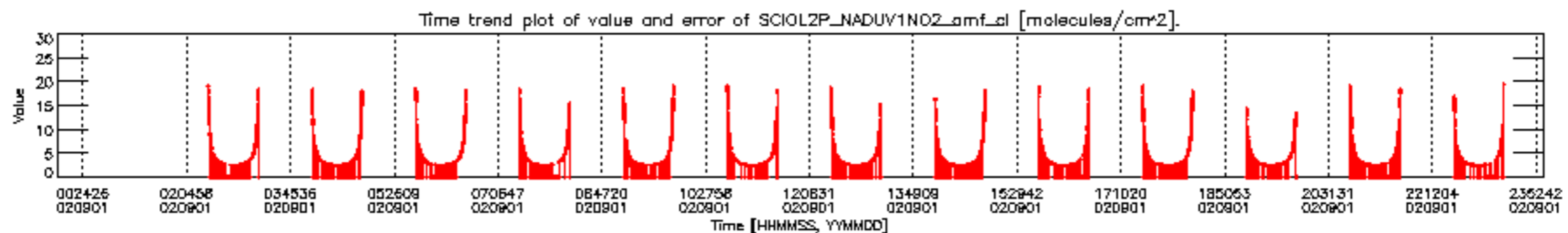
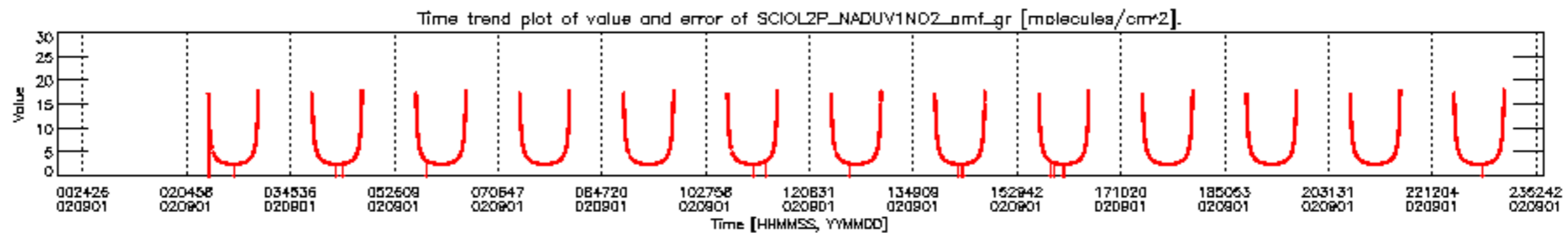
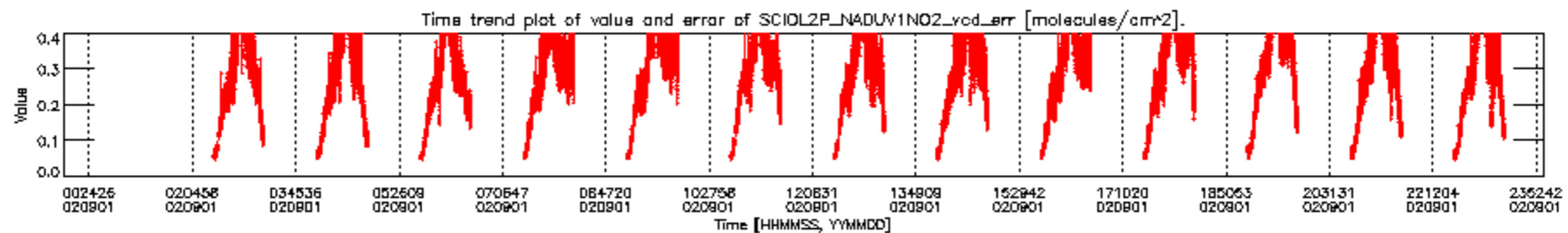
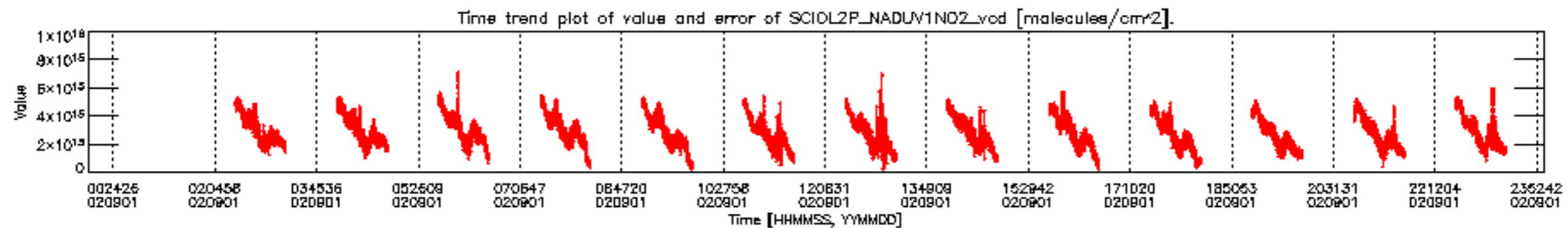


SCIOL2P\_NADUV003\_amf\_gr for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

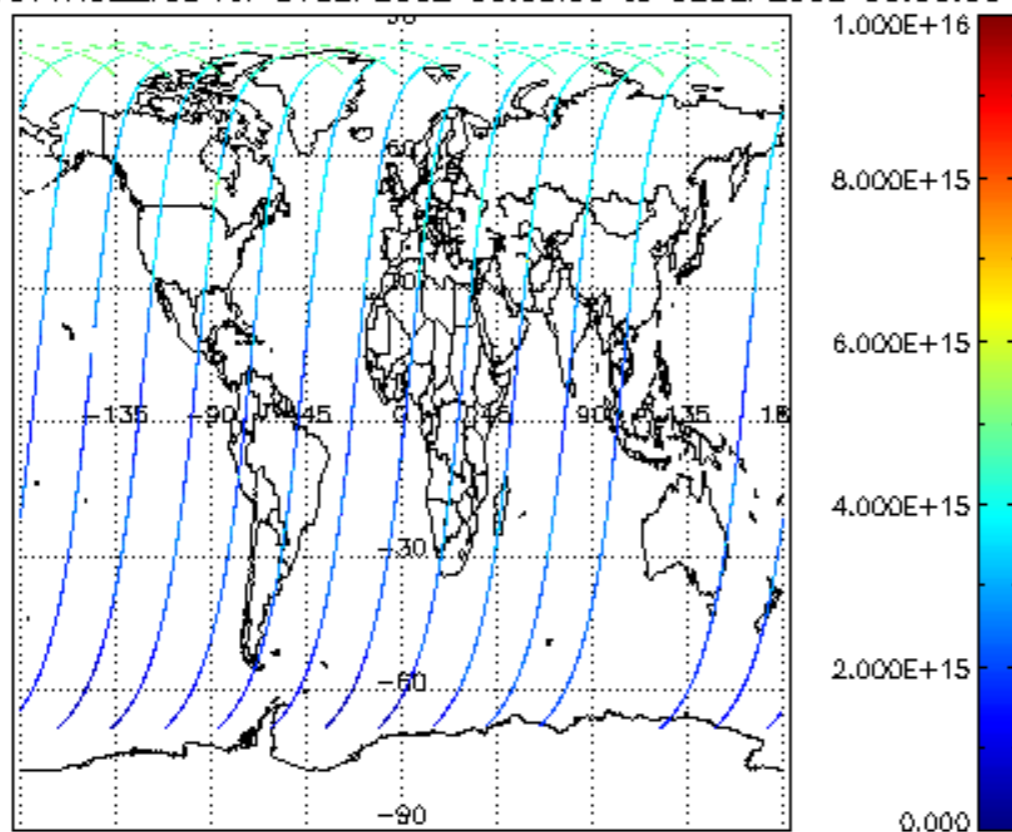


SCIOL2P\_NADUV003\_amf\_cl for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

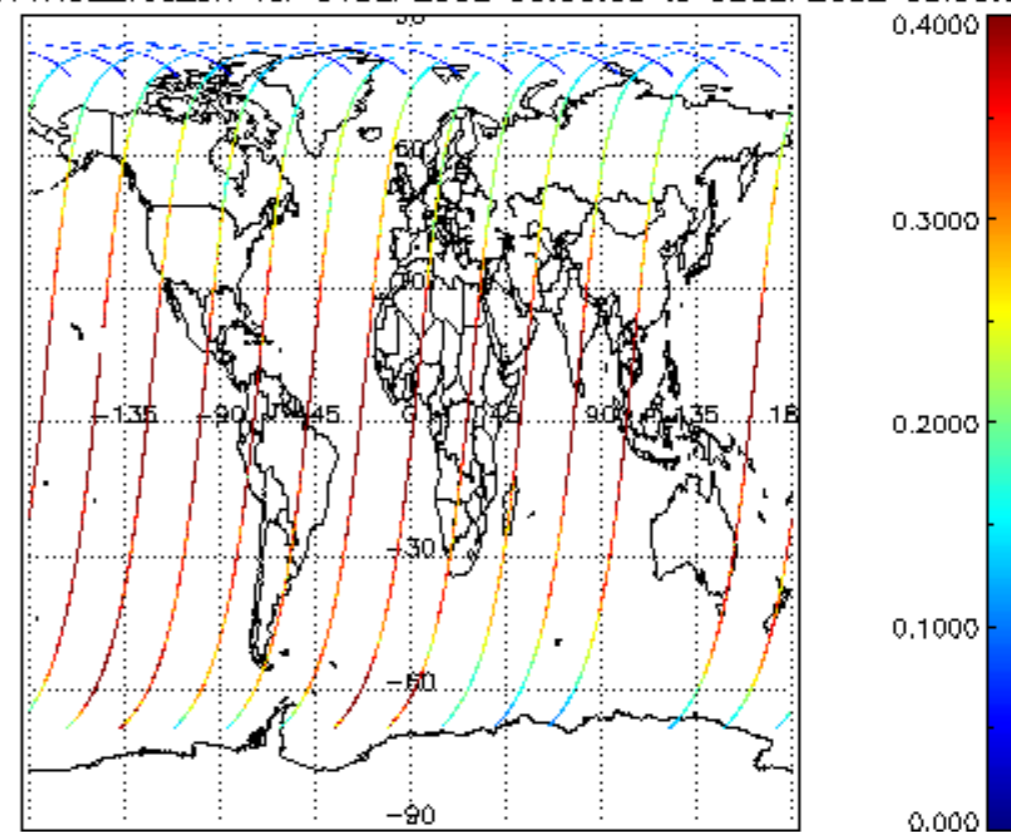




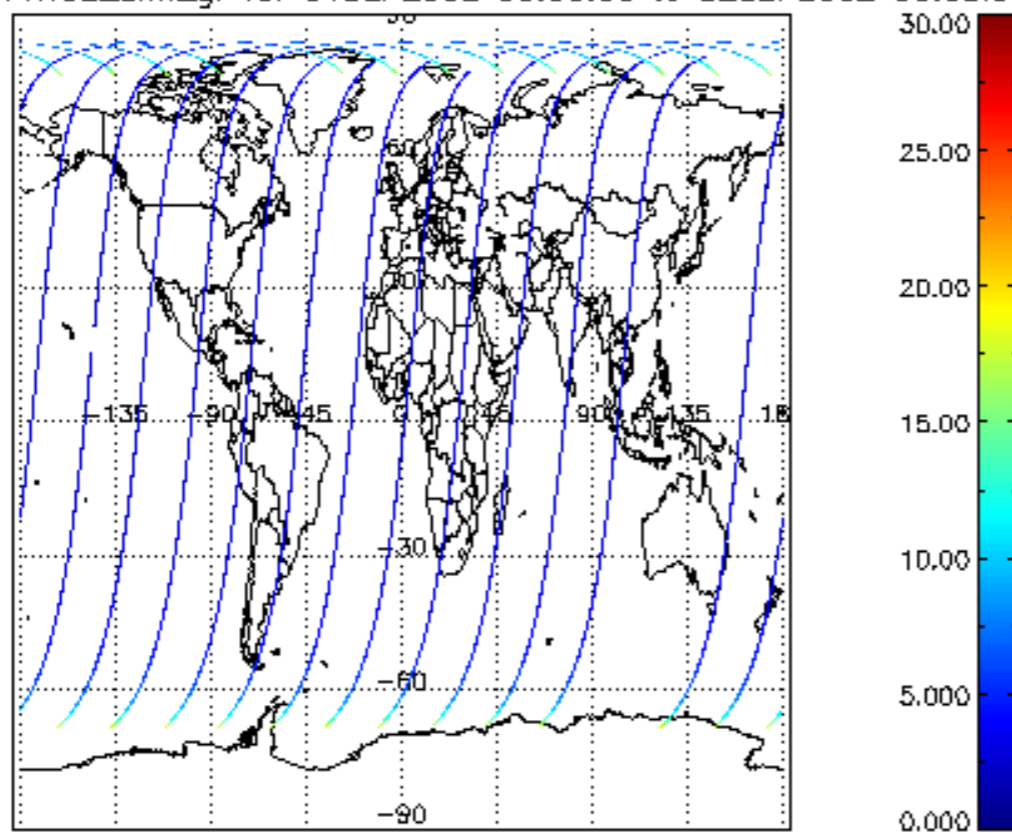
SCIOL2P\_NADUV1NO2\_vcd for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



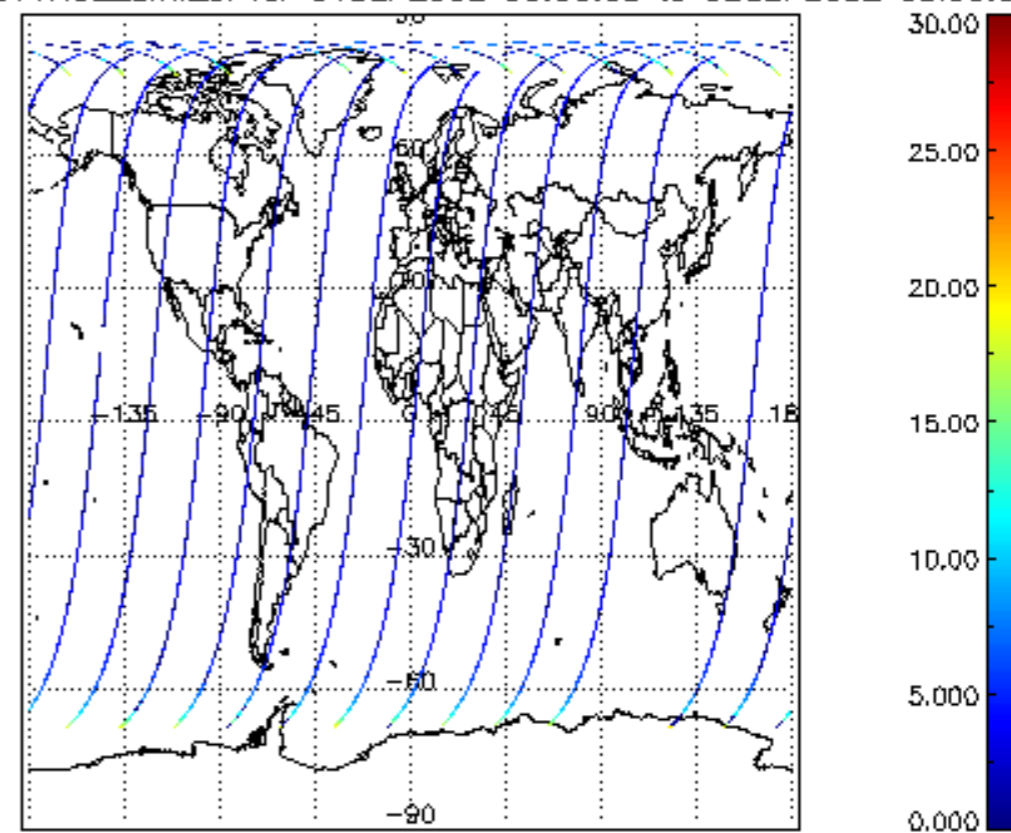
iCIOL2P\_NADUV1NO2\_vcd\_err for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



iCIOL2P\_NADUV1NO2\_amf\_gr for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

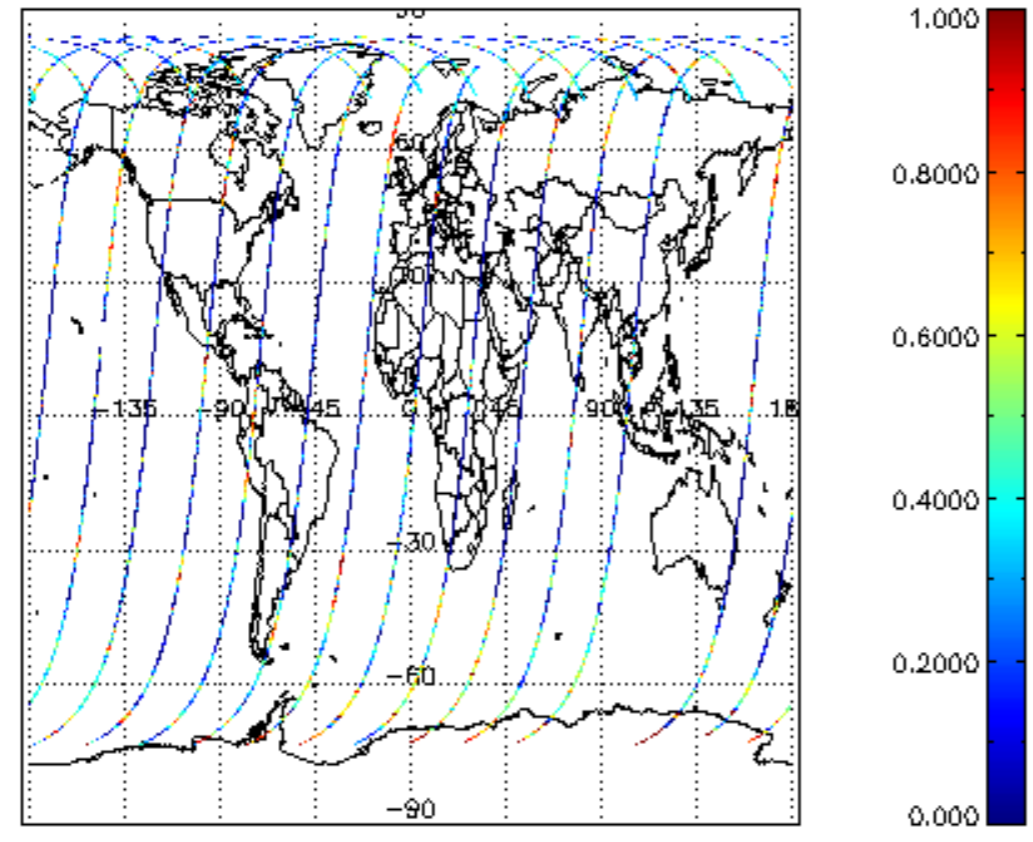


iCIOL2P\_NADUV1NO2\_amf\_cl for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

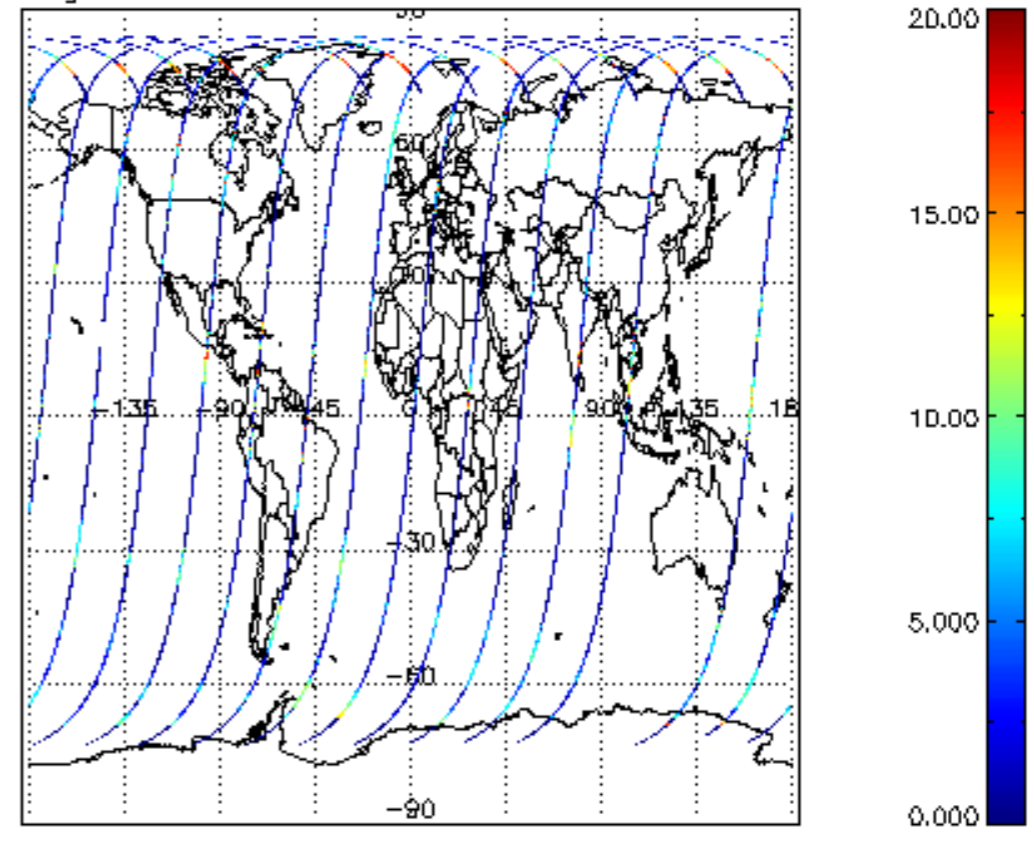




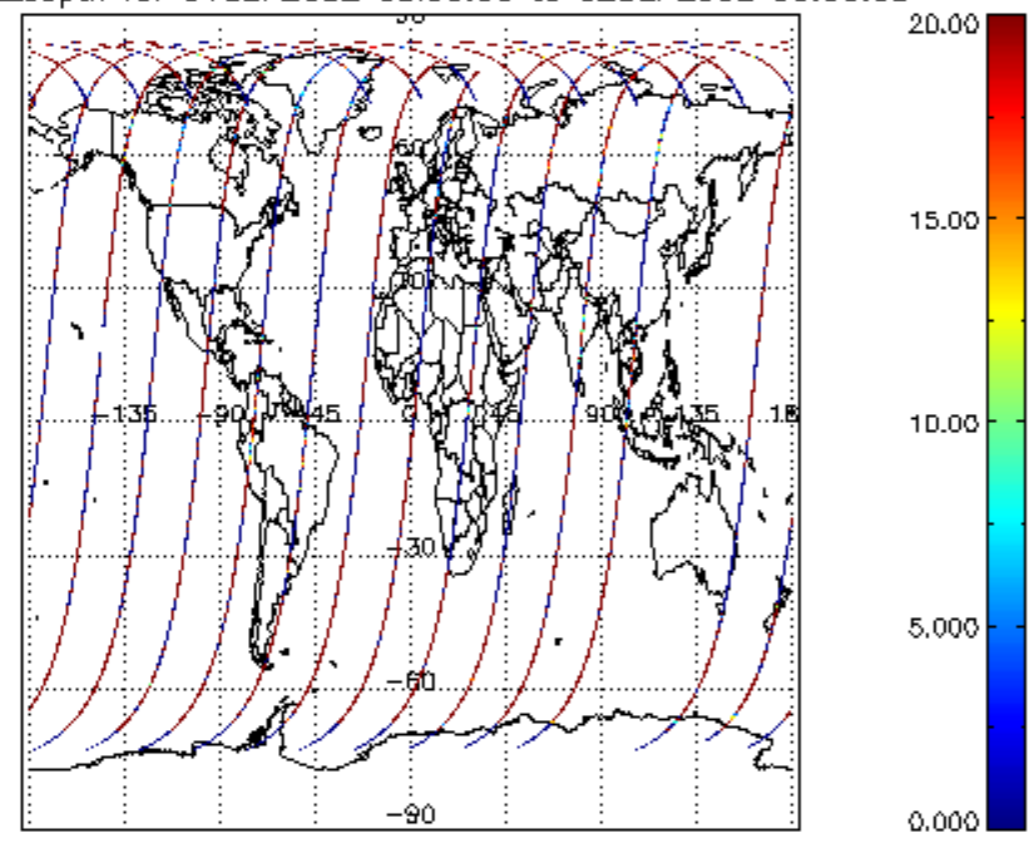
cl\_frac for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



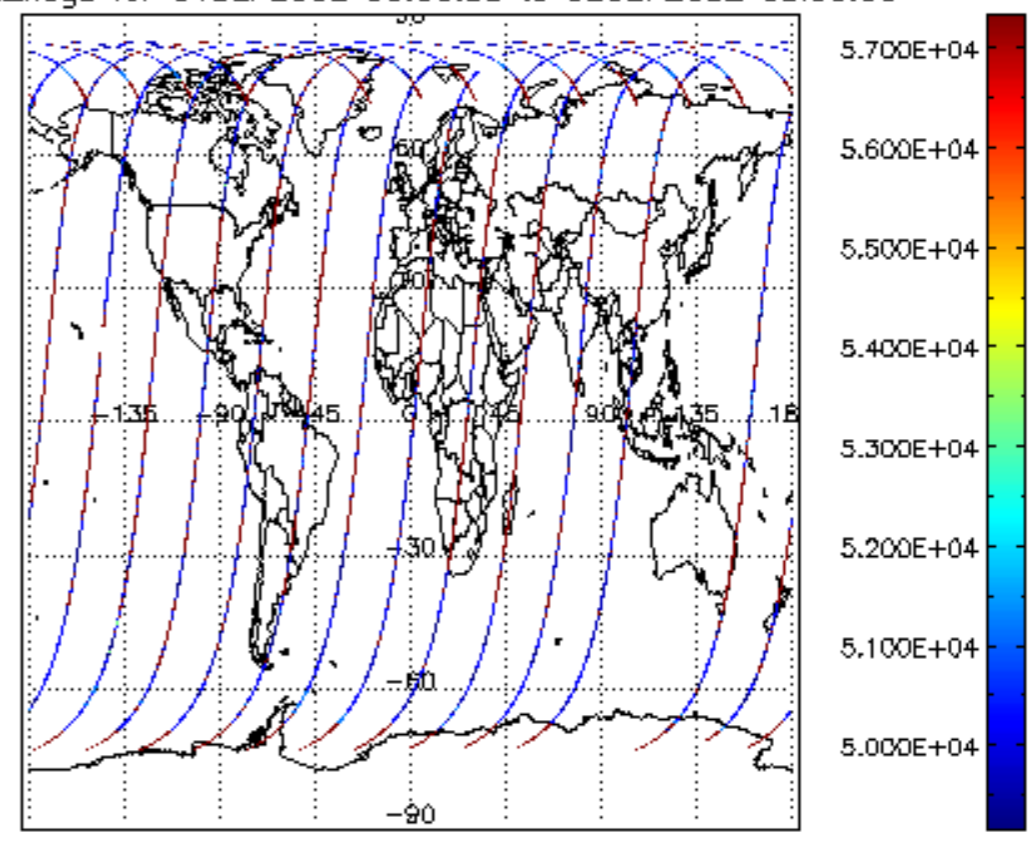
cl\_top\_height for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

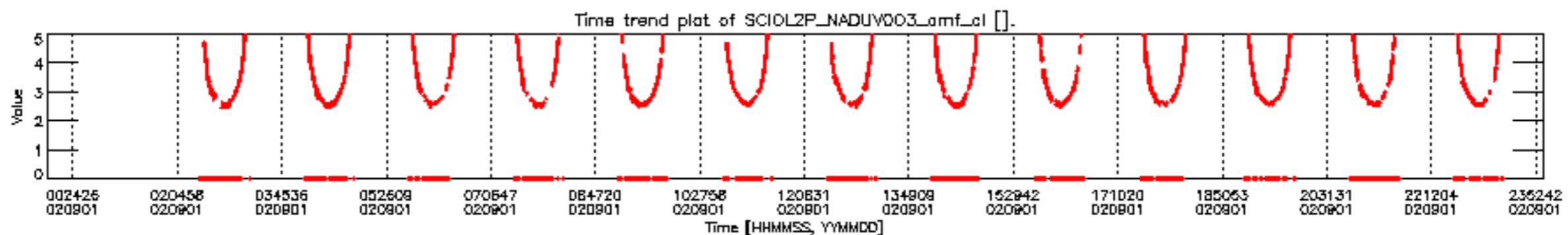
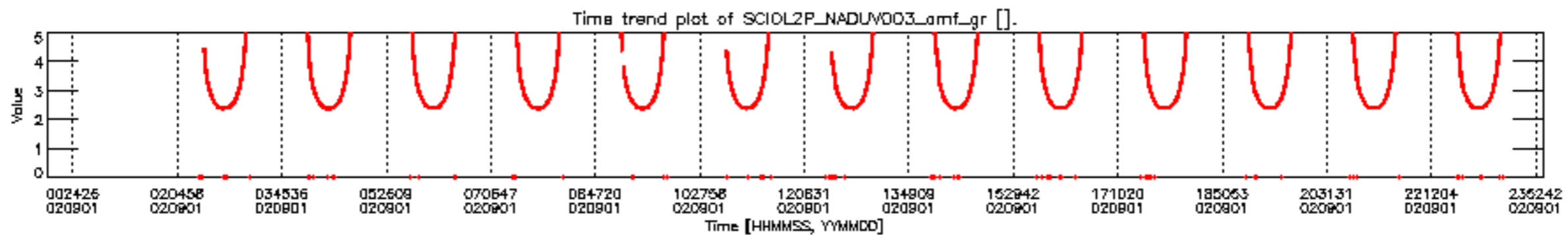
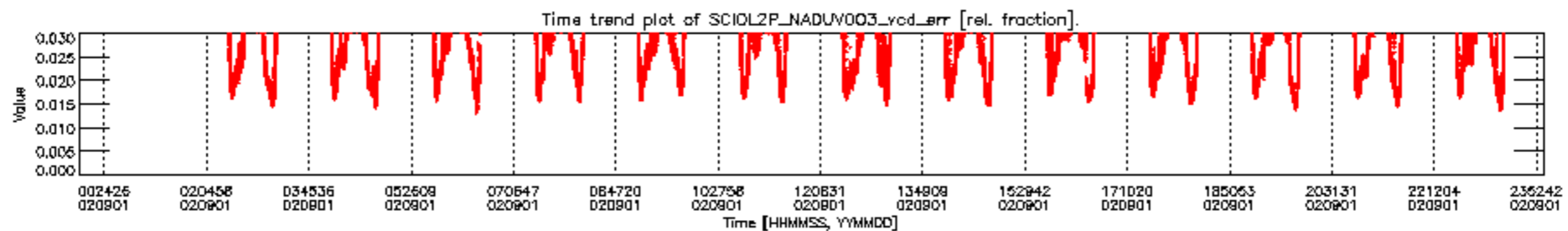
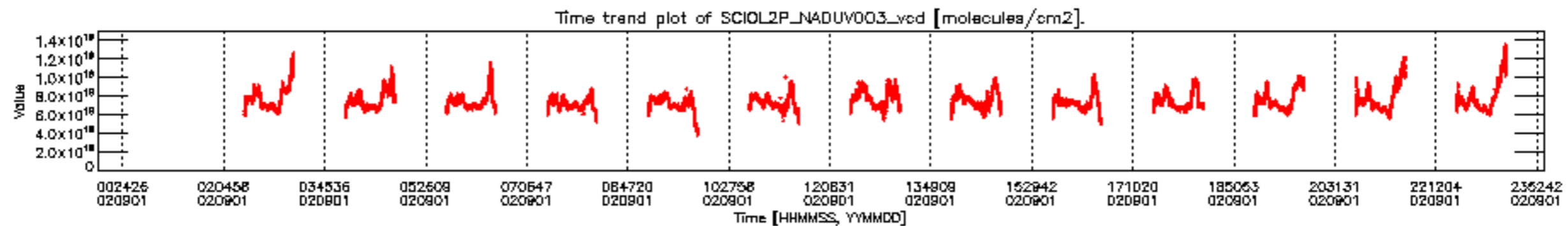


cl\_opt\_depth for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

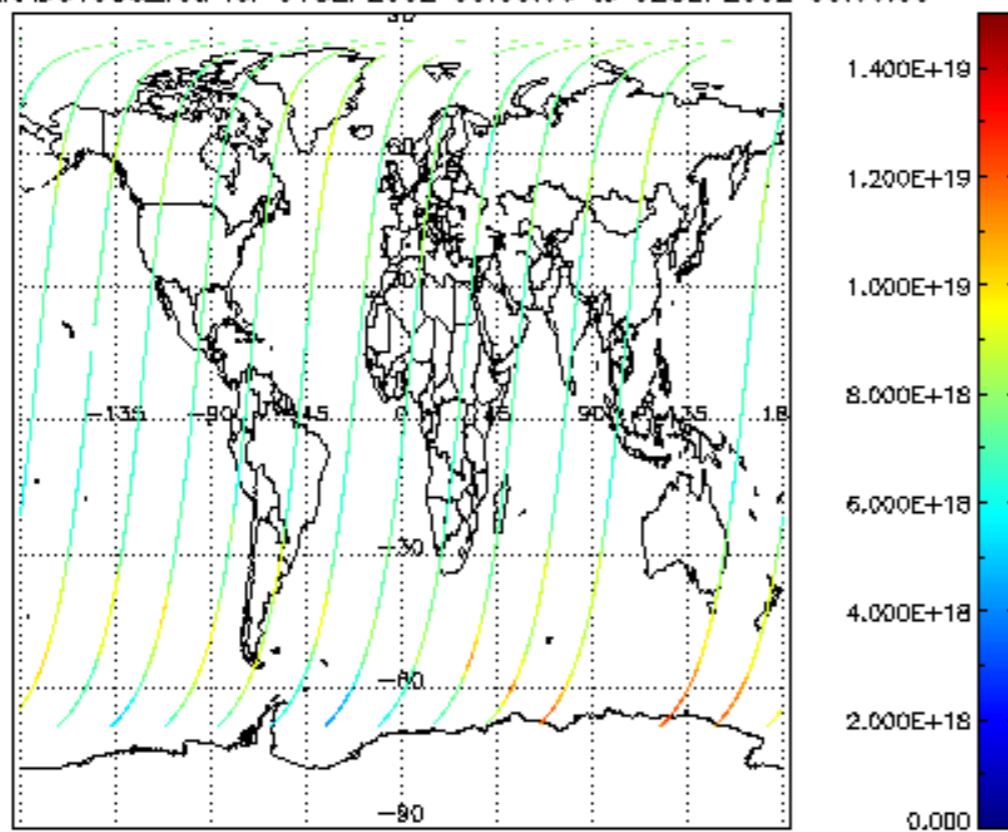


cloud\_flags for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

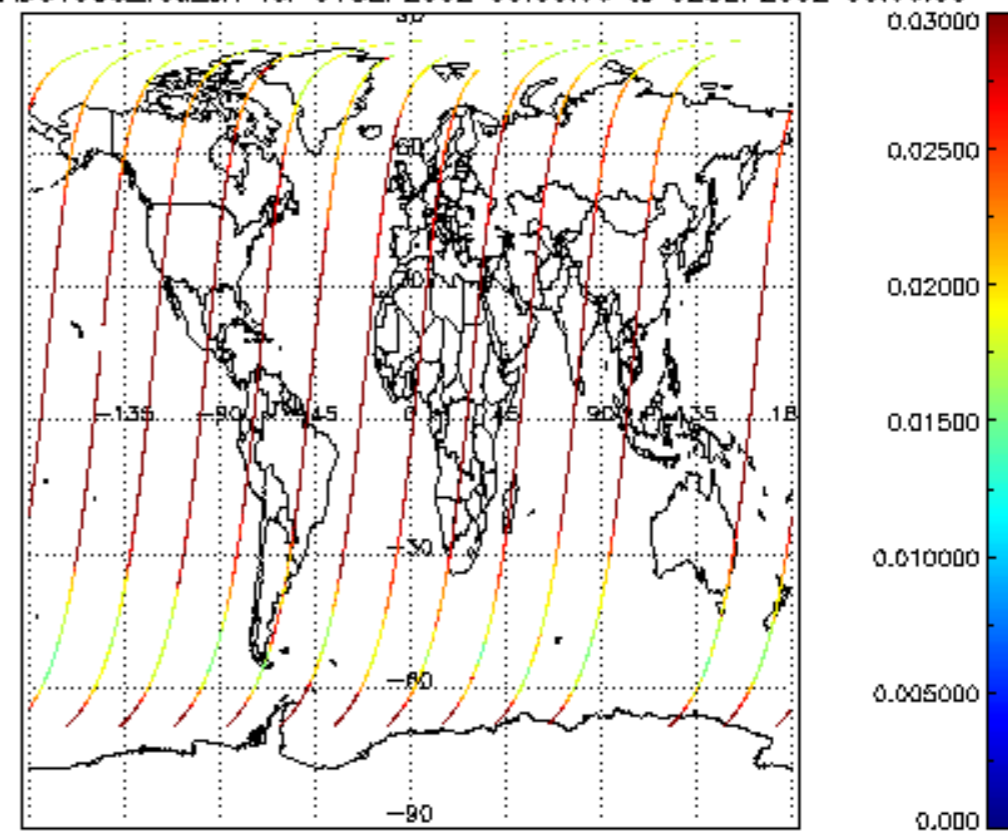




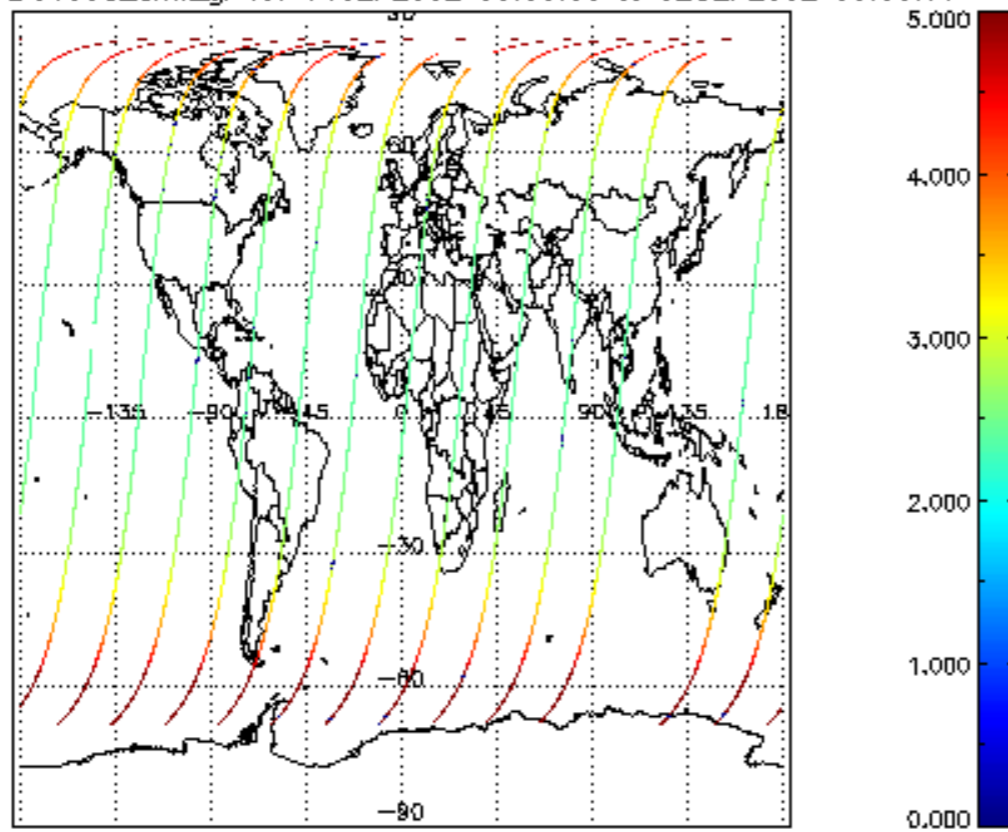
SCIOL2P\_NADUV003\_vcd for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



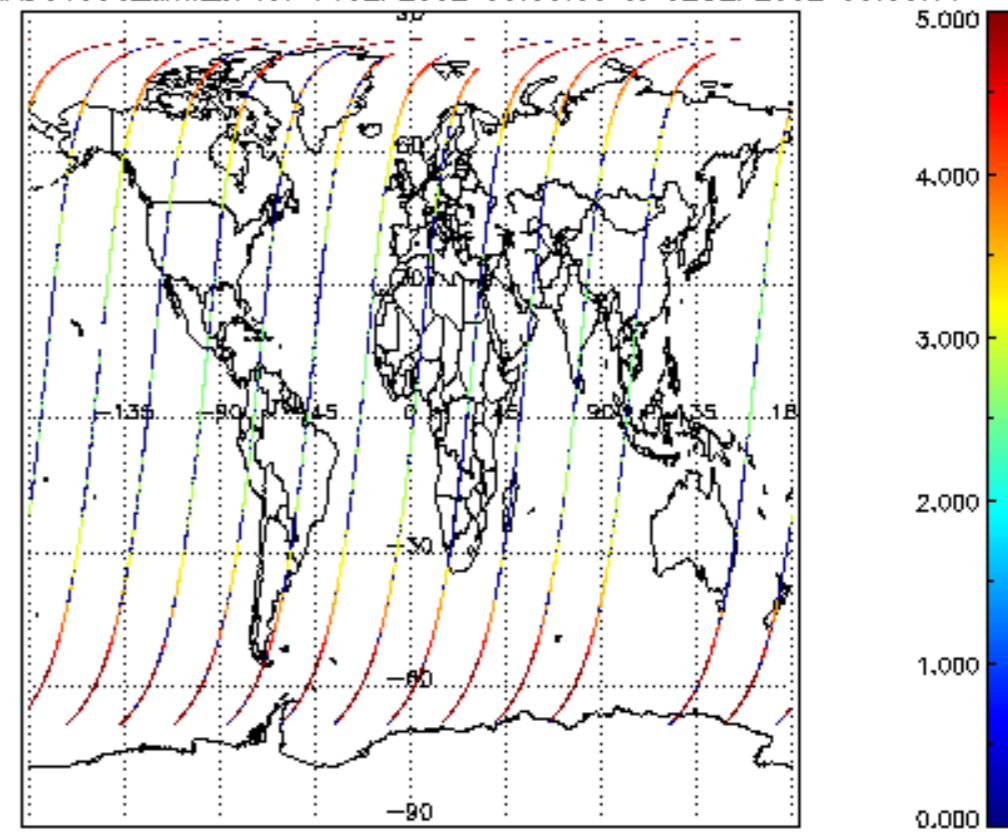
SCIOL2P\_NADUV003\_vcd\_err for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

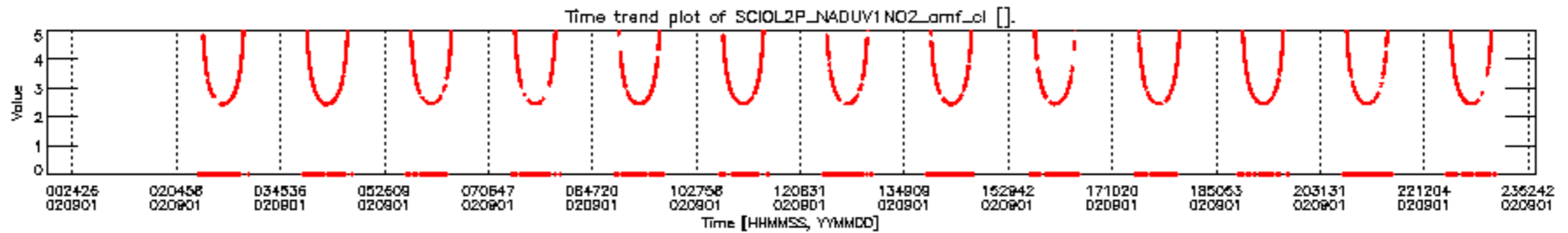
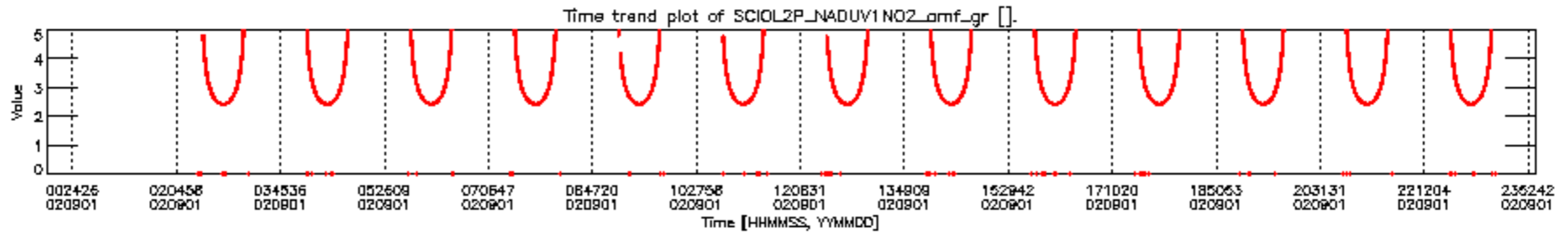
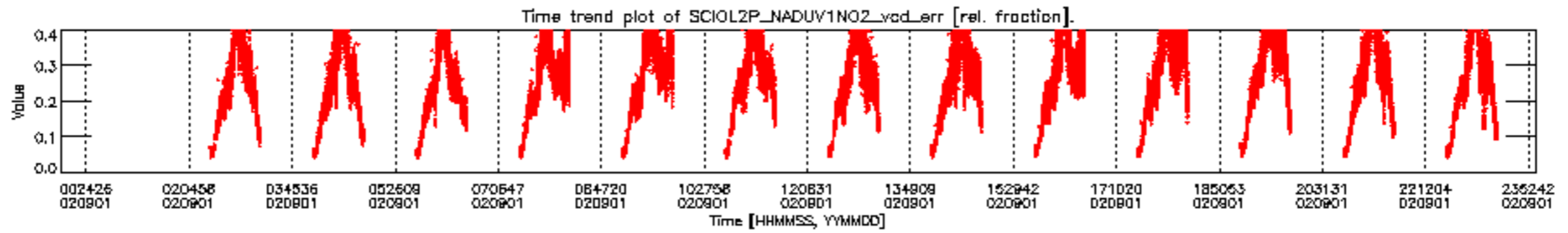
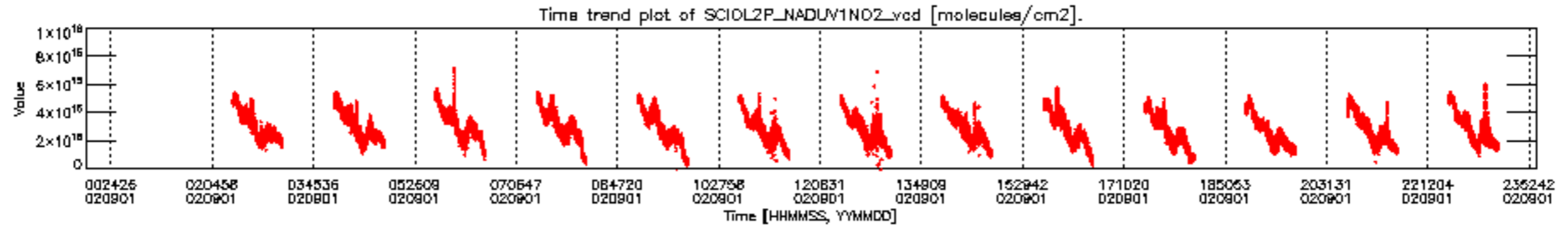


SCIOL2P\_NADUV003\_amf\_gr for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

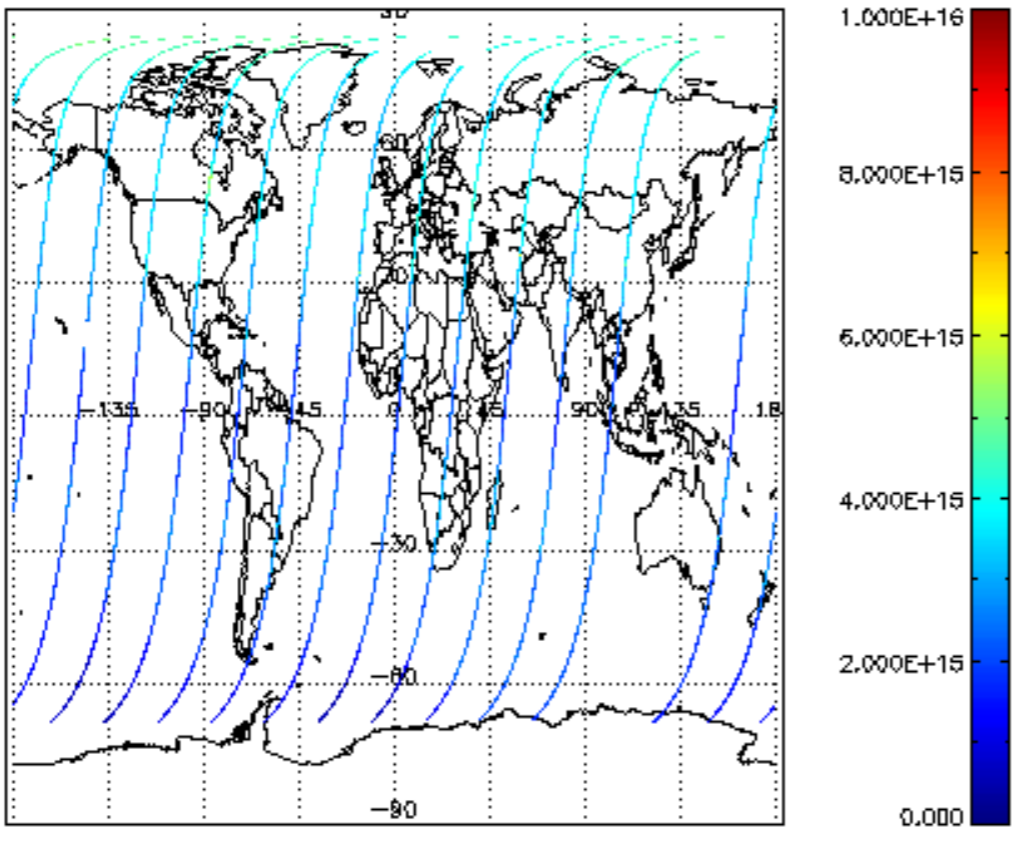


SCIOL2P\_NADUV003\_amf\_cl for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

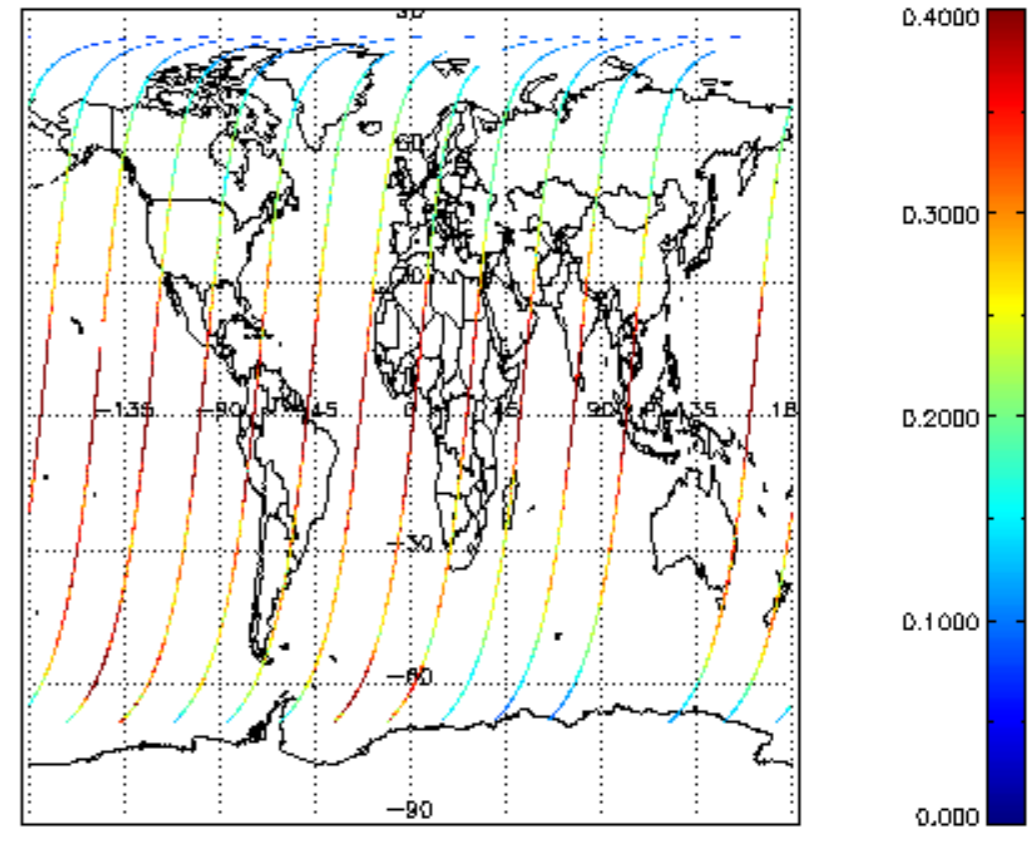




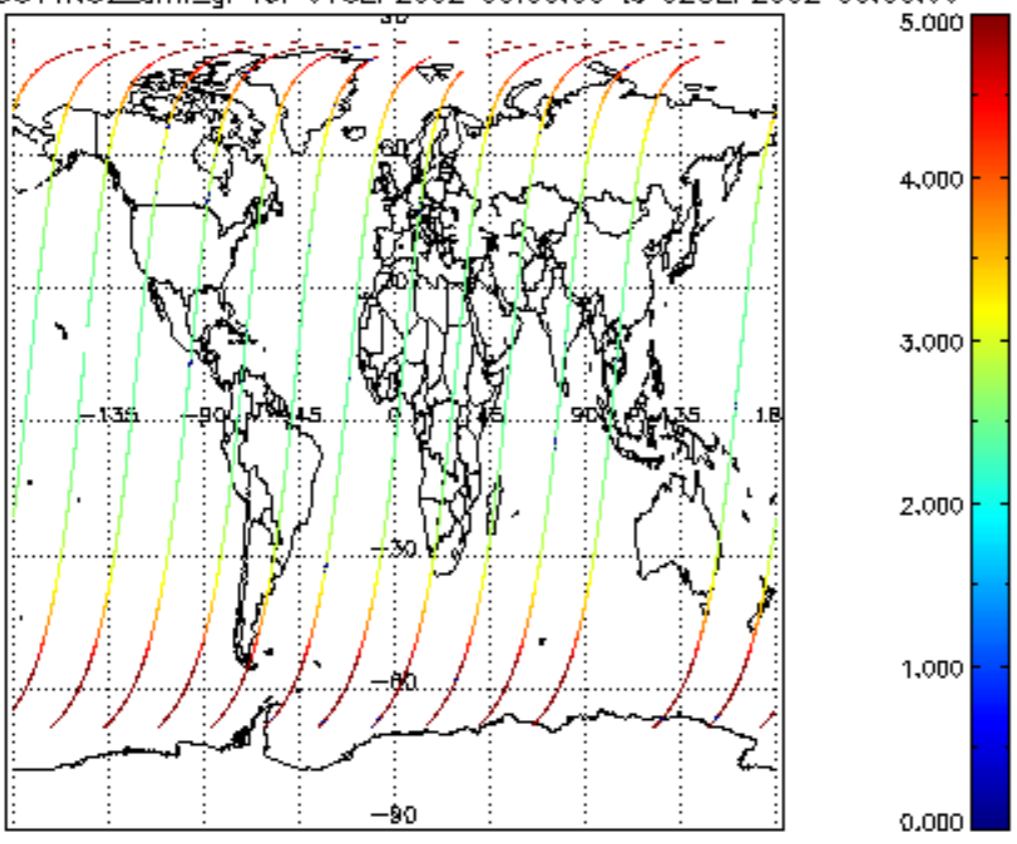
SCIOL2P\_NADUV1N02\_vcd for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



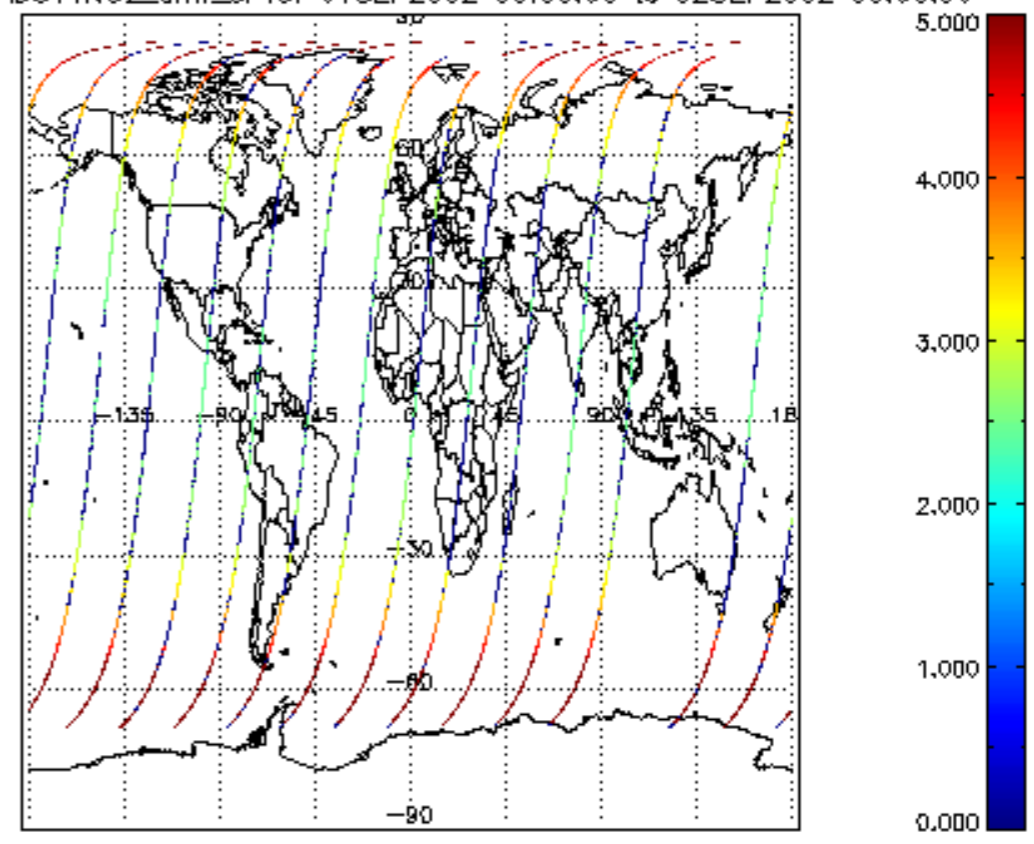
SCIOL2P\_NADUV1N02\_vcd\_err for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

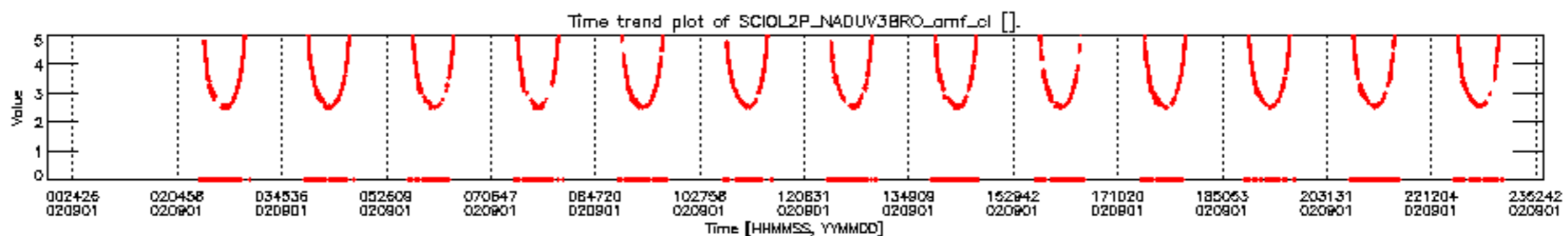
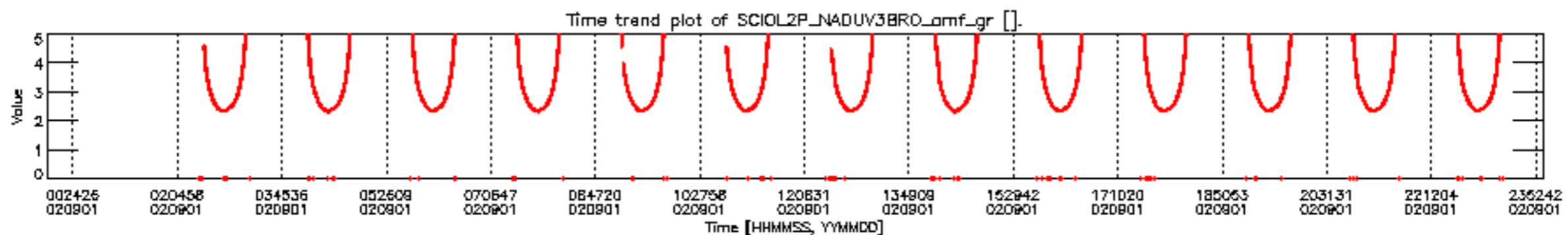
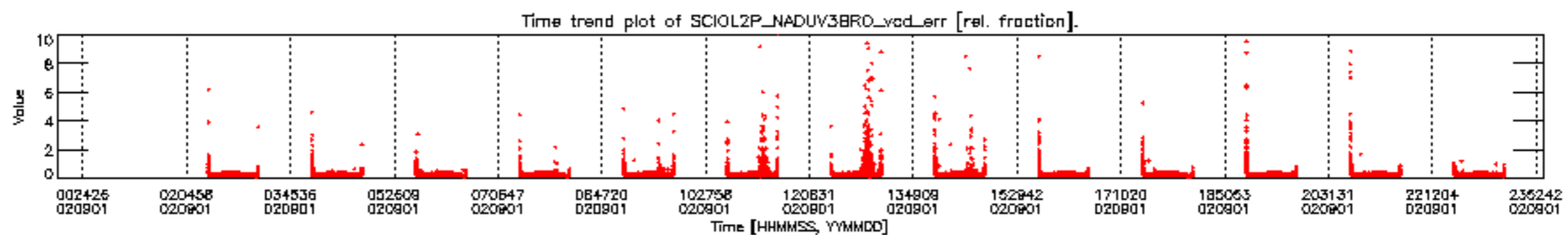
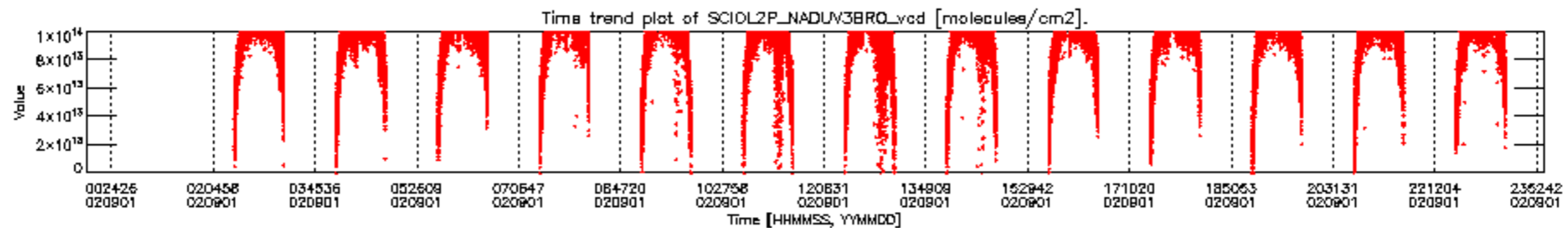


SCIOL2P\_NADUV1N02\_amf\_gr for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

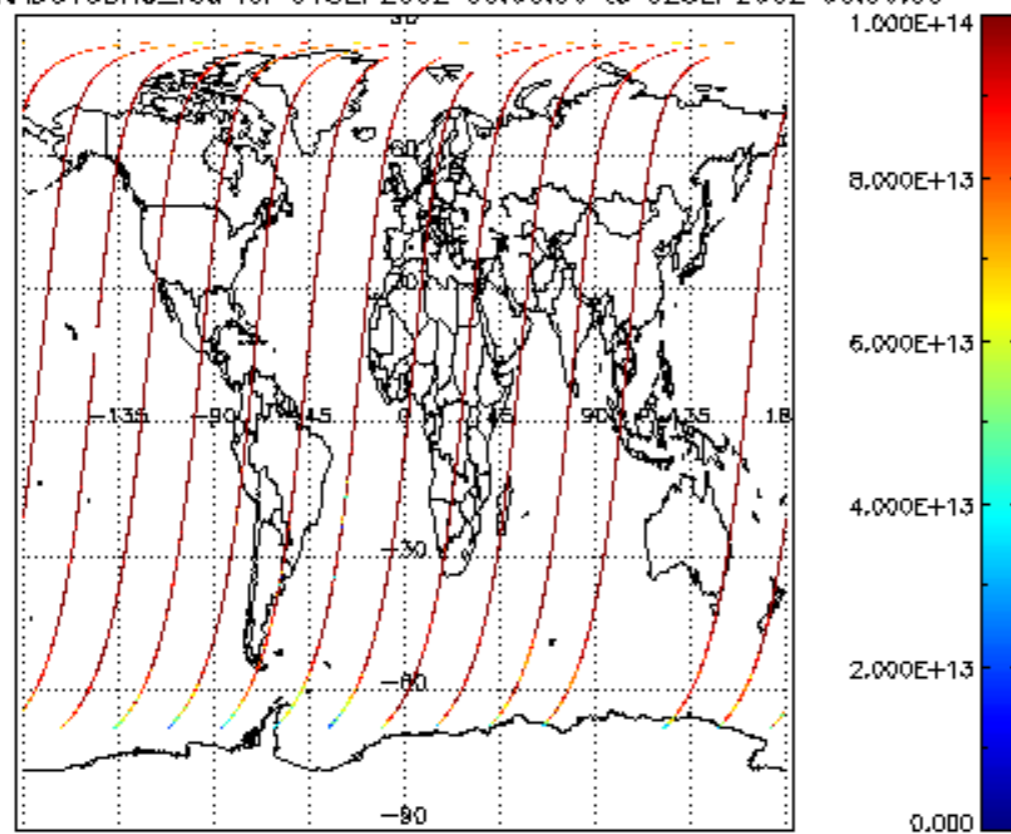


SCIOL2P\_NADUV1N02\_amf\_sl for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

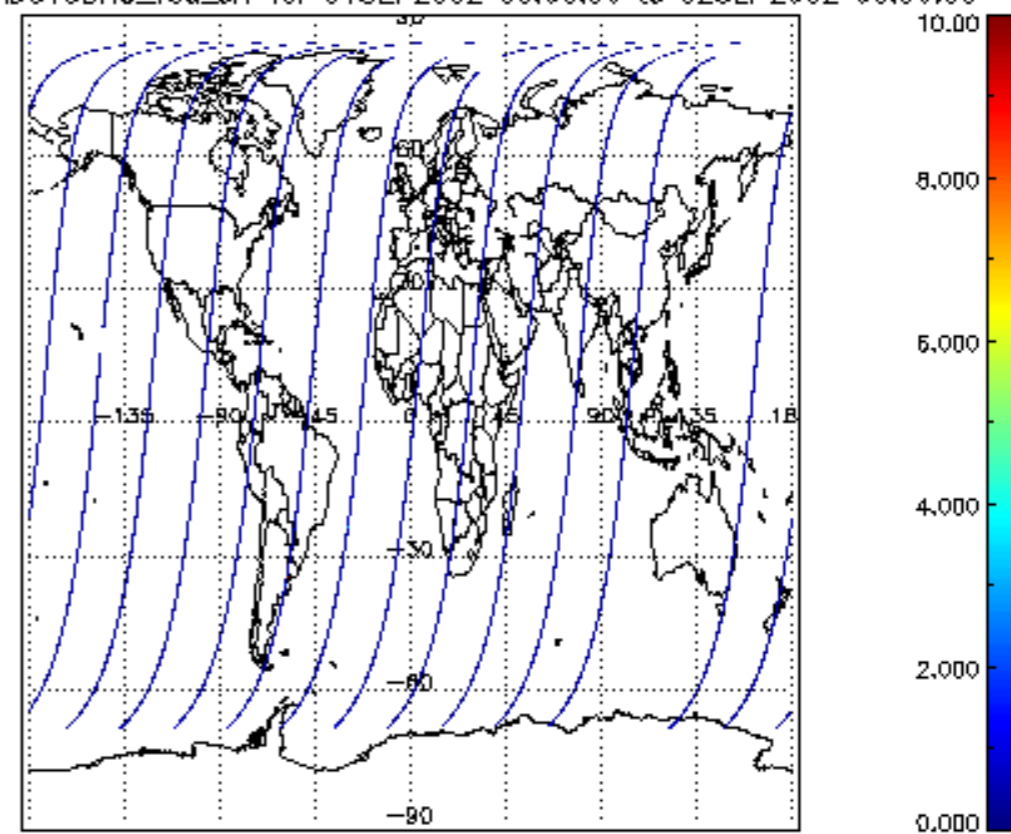




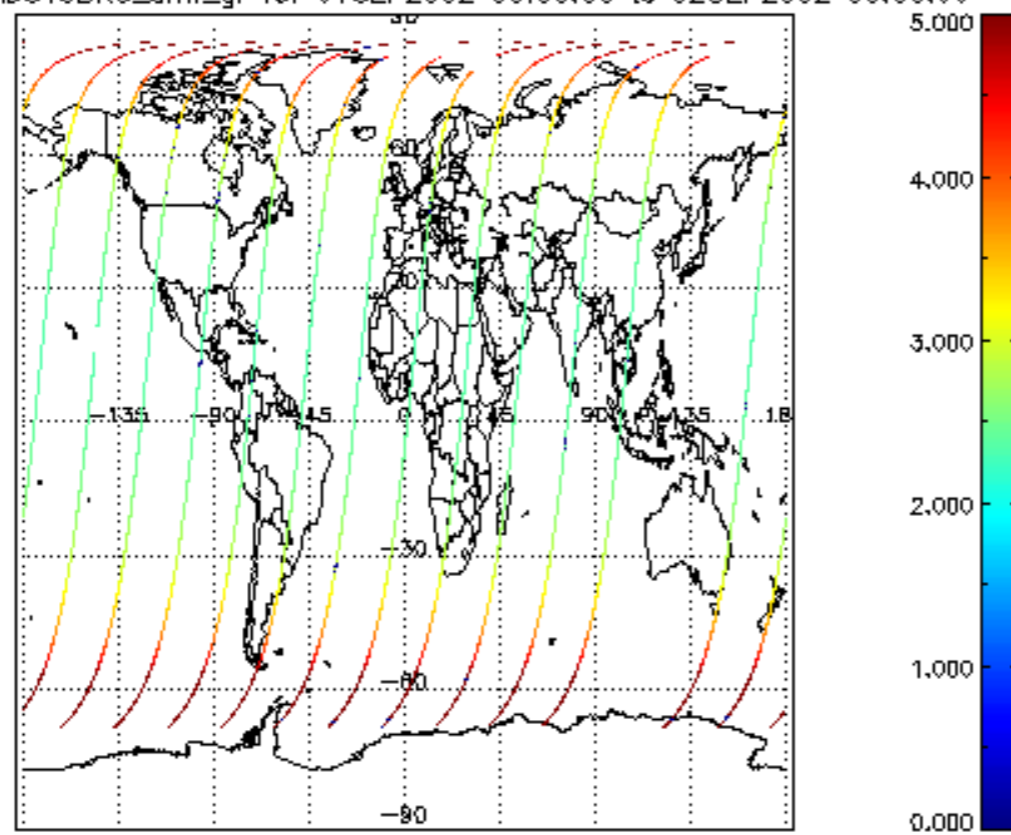
SCIOL2P\_NADUV3BRO\_vcd for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



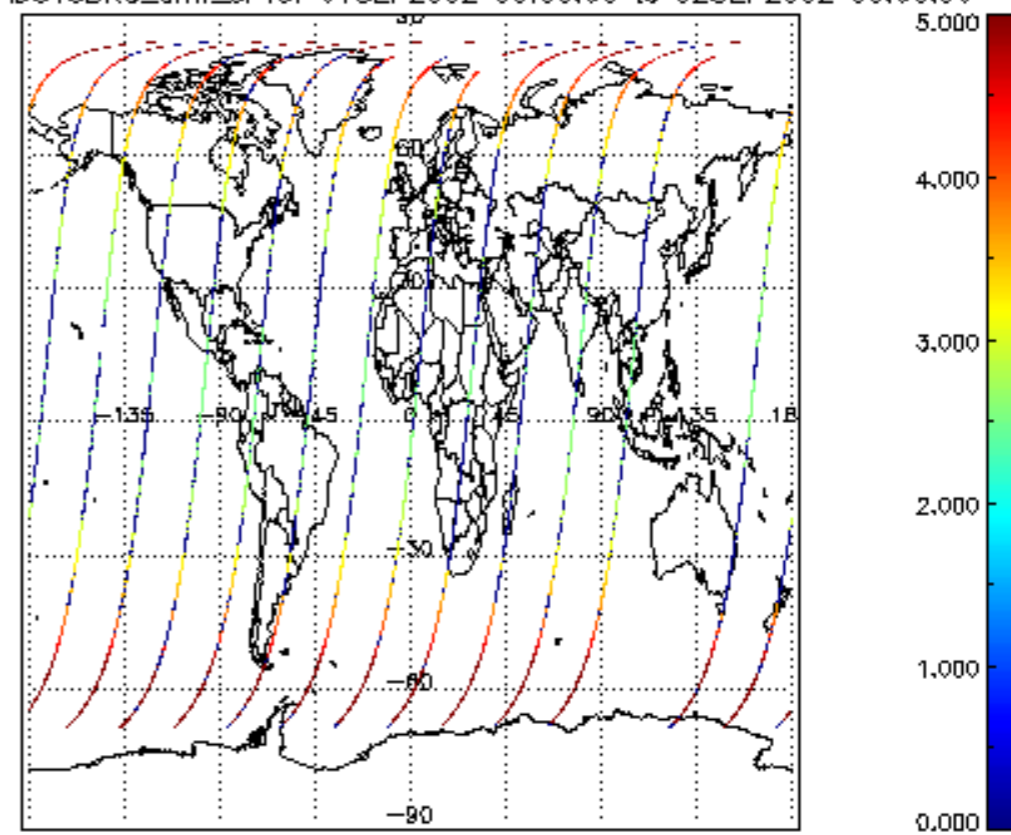
SCIOL2P\_NADUV3BRO\_vcd\_err for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

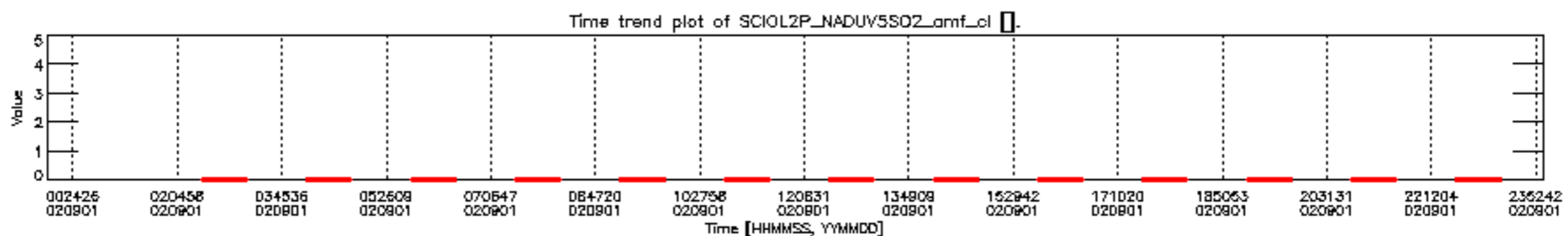
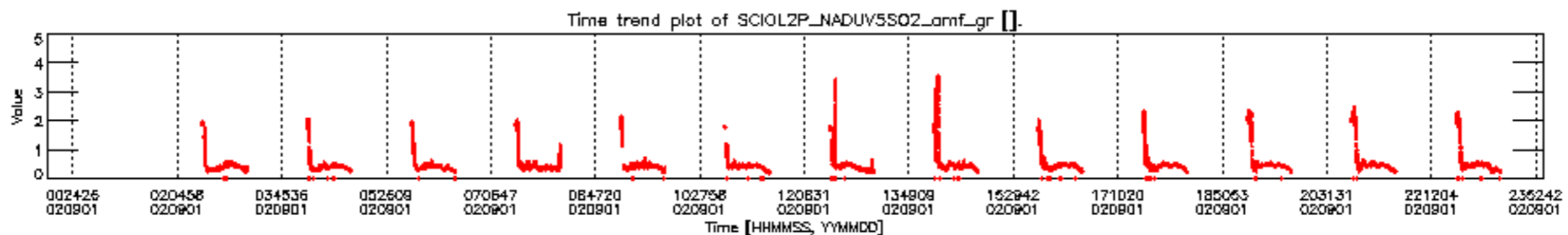
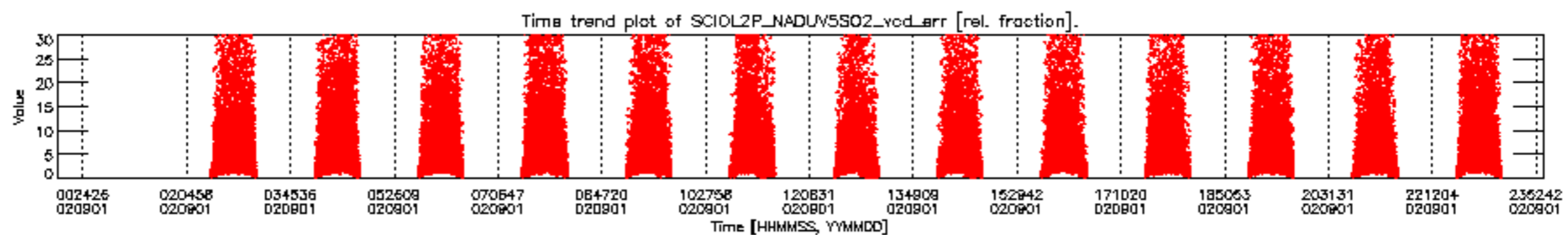
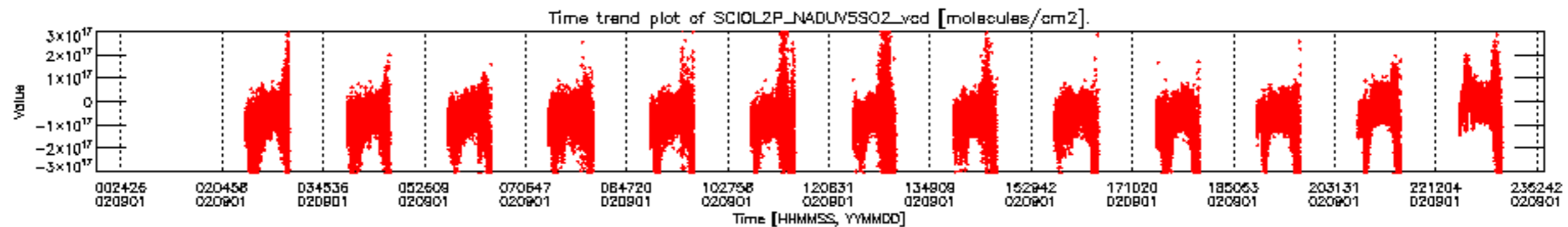


SCIOL2P\_NADUV3BRO\_amf\_gr for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



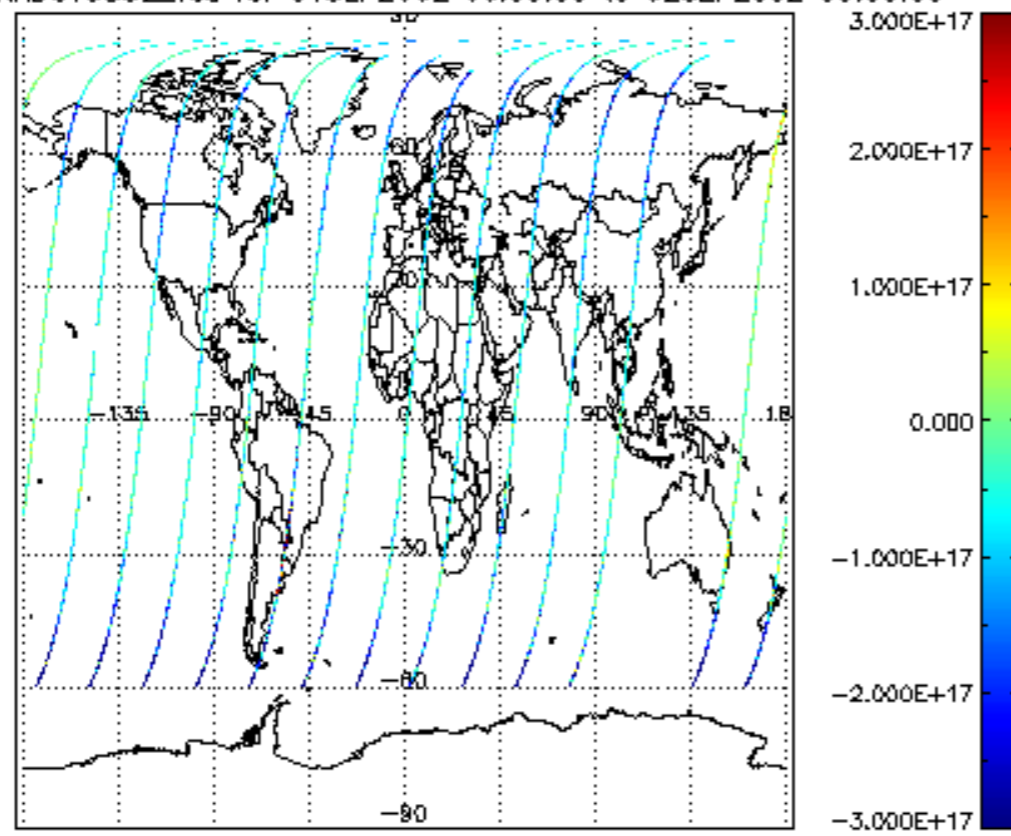
SCIOL2P\_NADUV3BRO\_amf\_cl for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



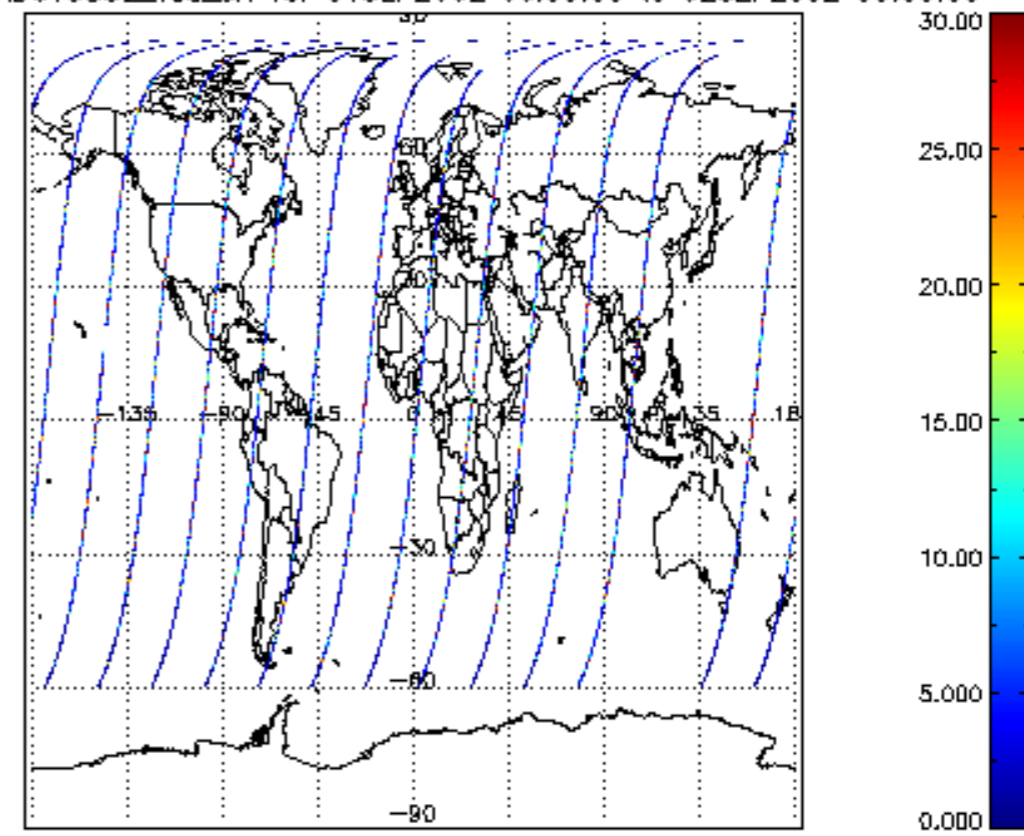




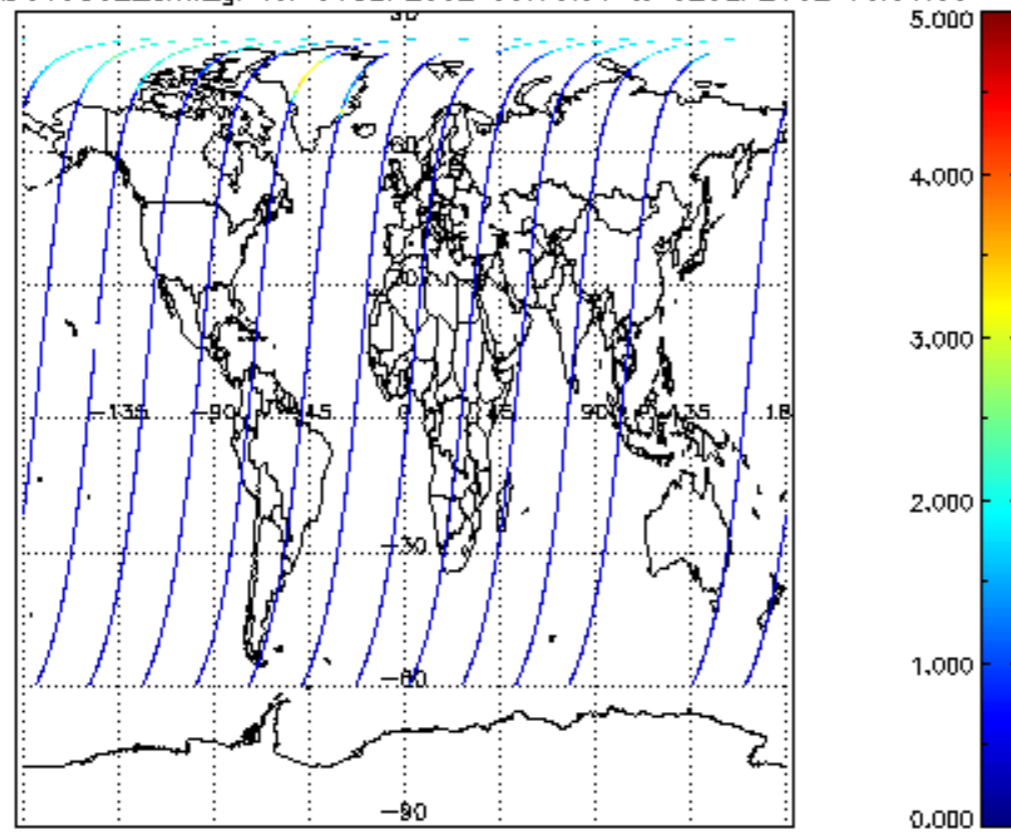
SCIOL2P\_NADUV5S02\_vcd for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



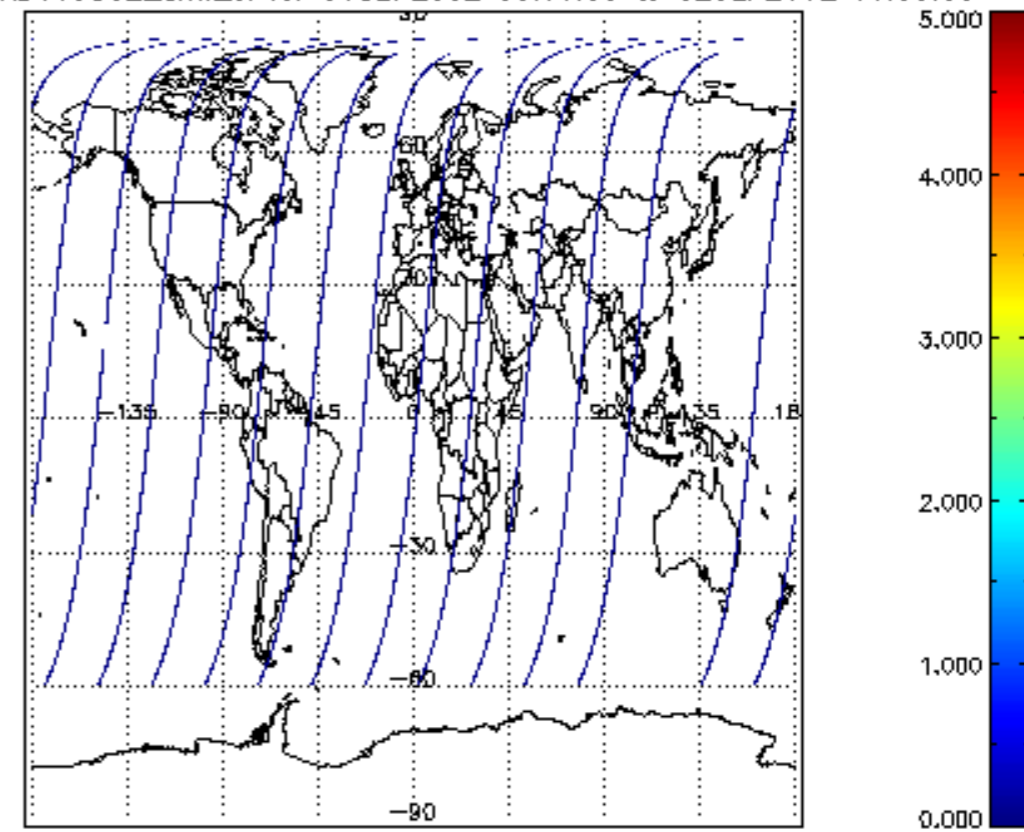
SCIOL2P\_NADUV5S02\_vcd\_err for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

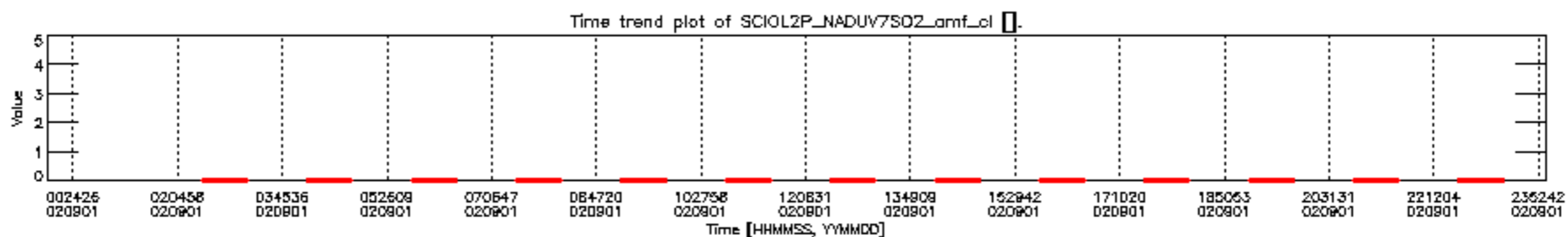
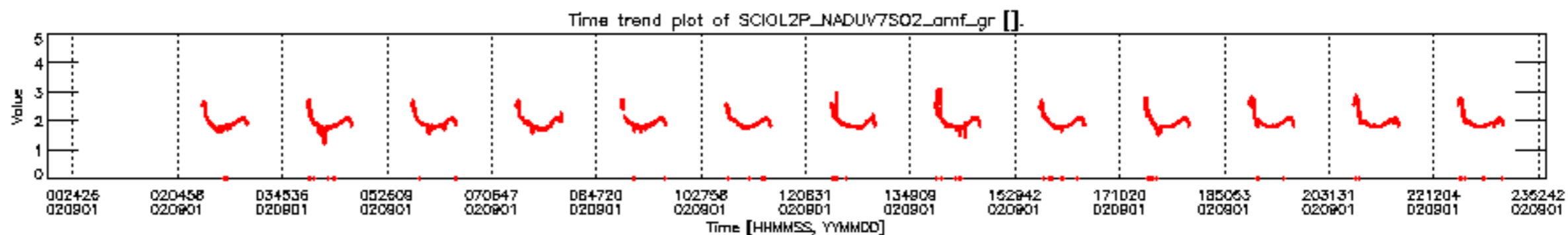
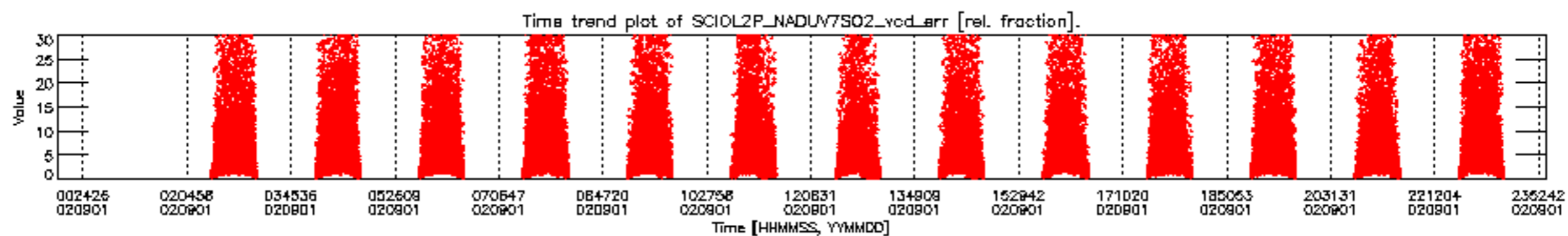
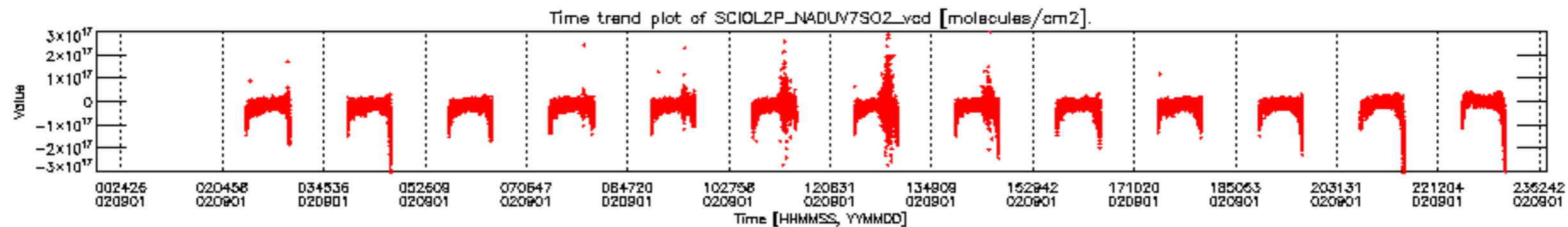


SCIOL2P\_NADUV5S02\_amf\_gr for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

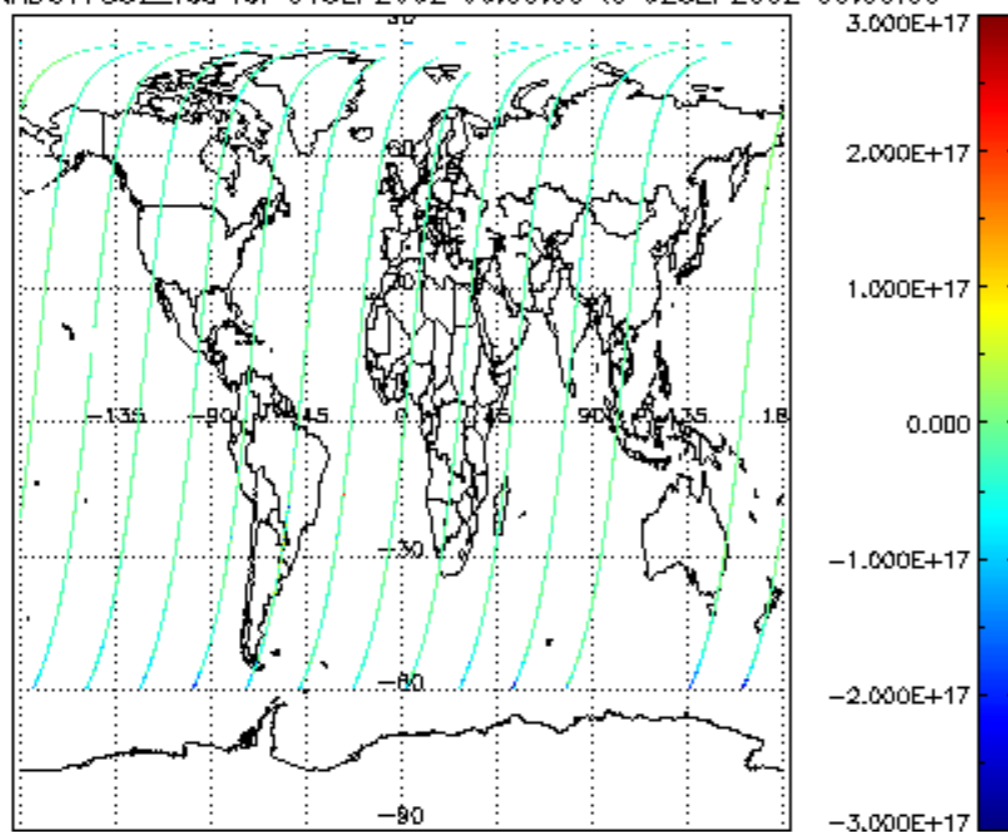


SCIOL2P\_NADUV5S02\_amf\_cl for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

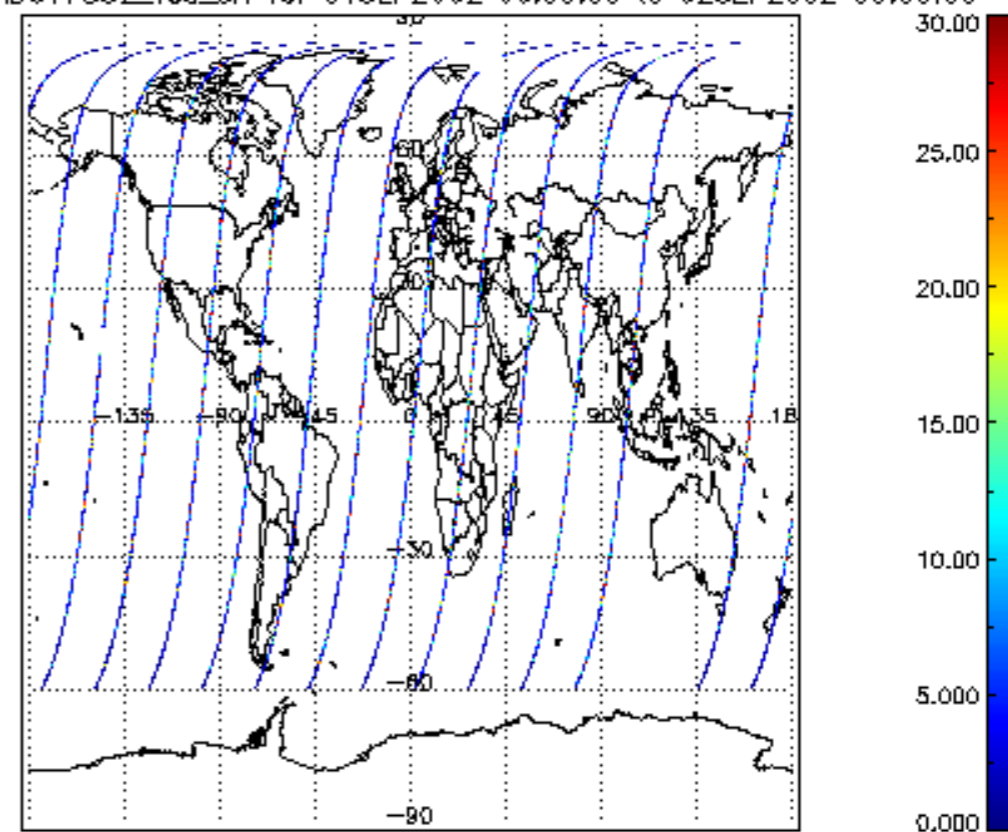




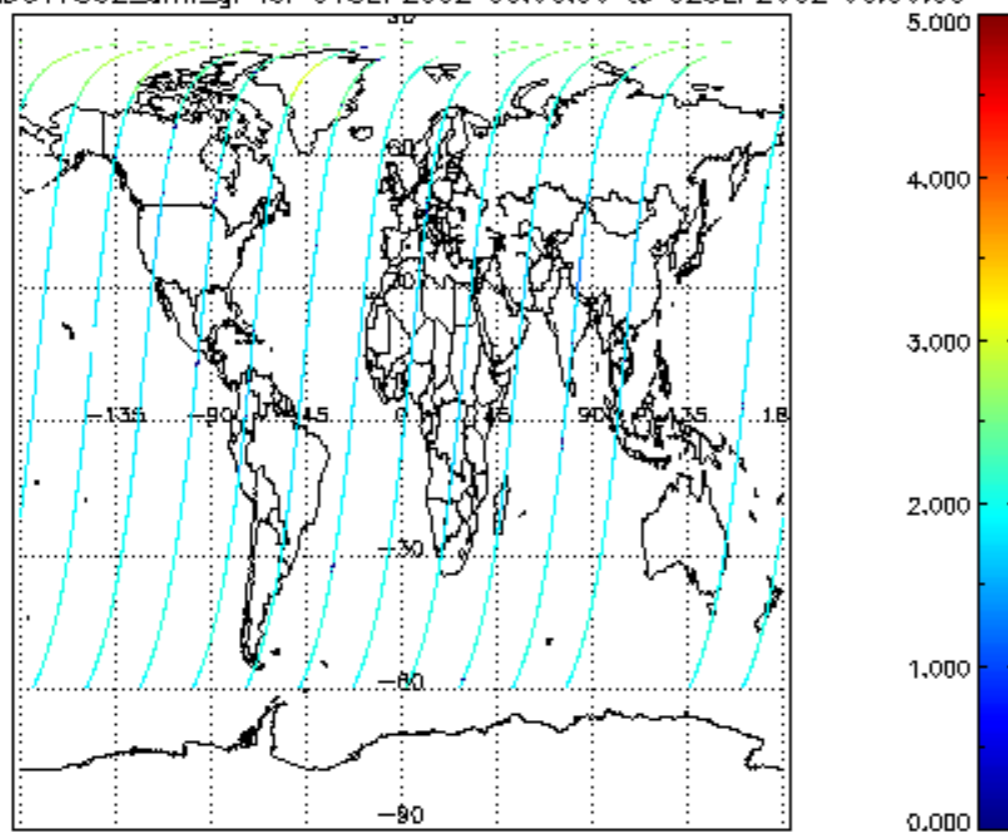
SCIOL2P\_NADUV7S02\_vcd for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



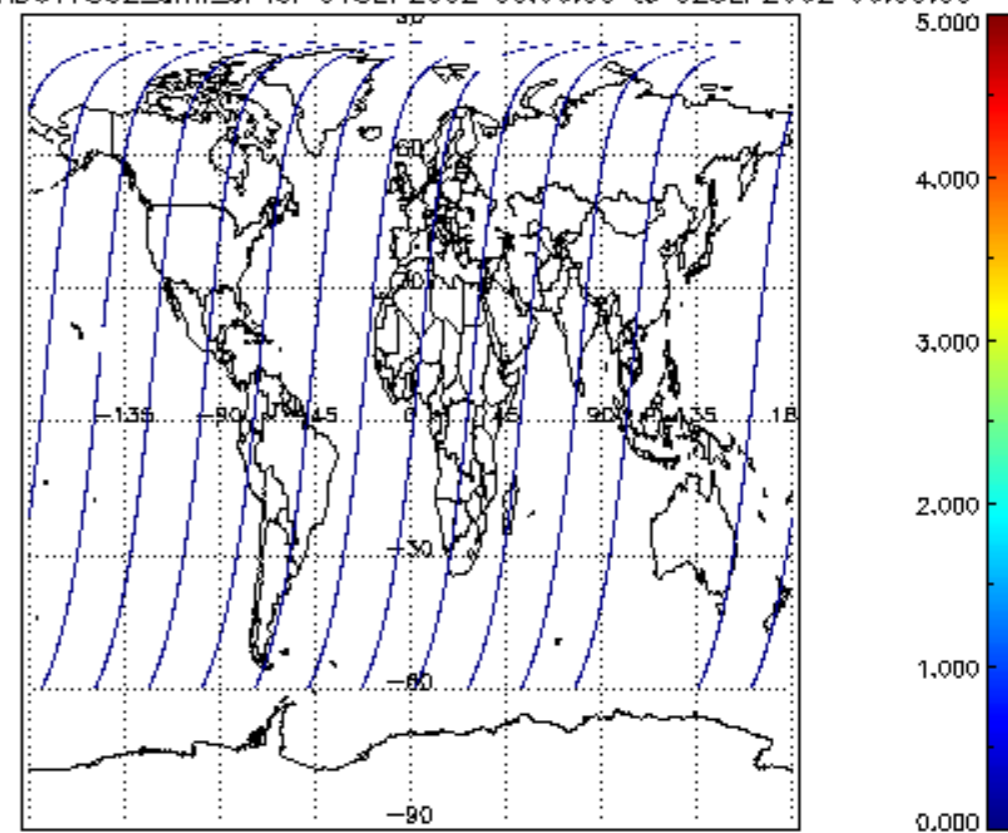
SCIOL2P\_NADUV7S02\_vcd\_err for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

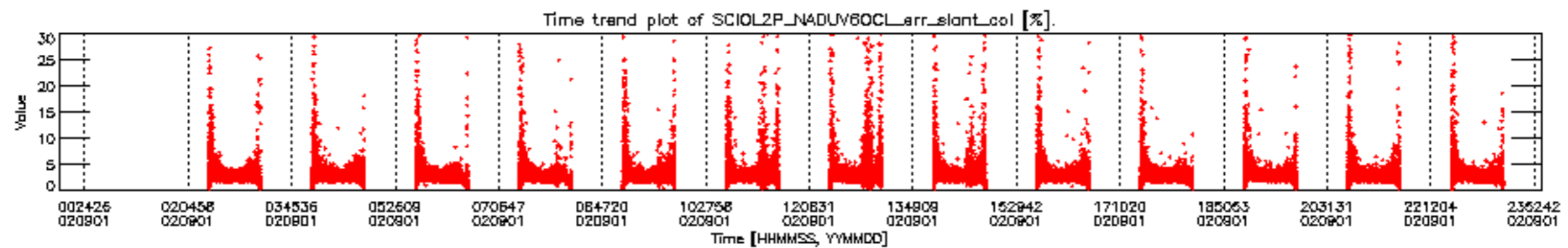
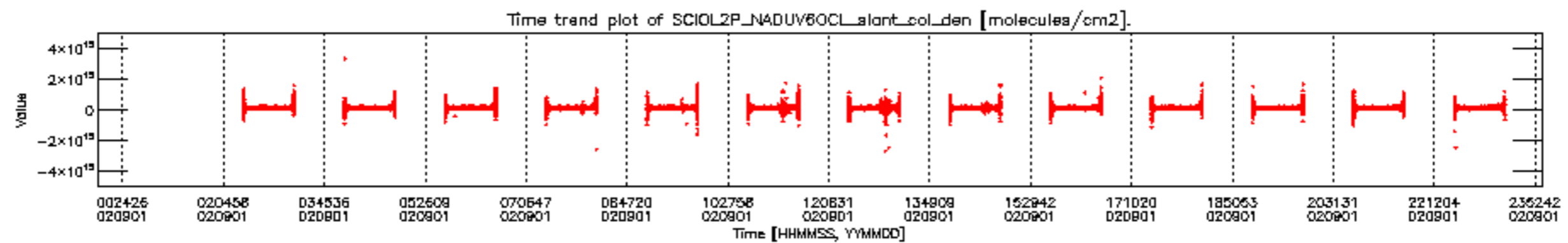


SCIOL2P\_NADUV7S02\_amf\_gr for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

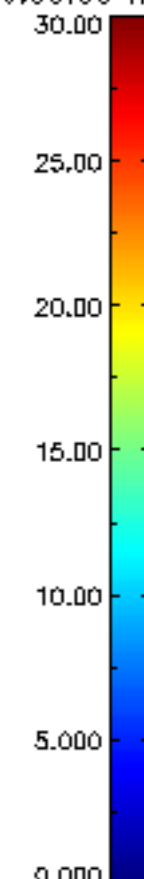
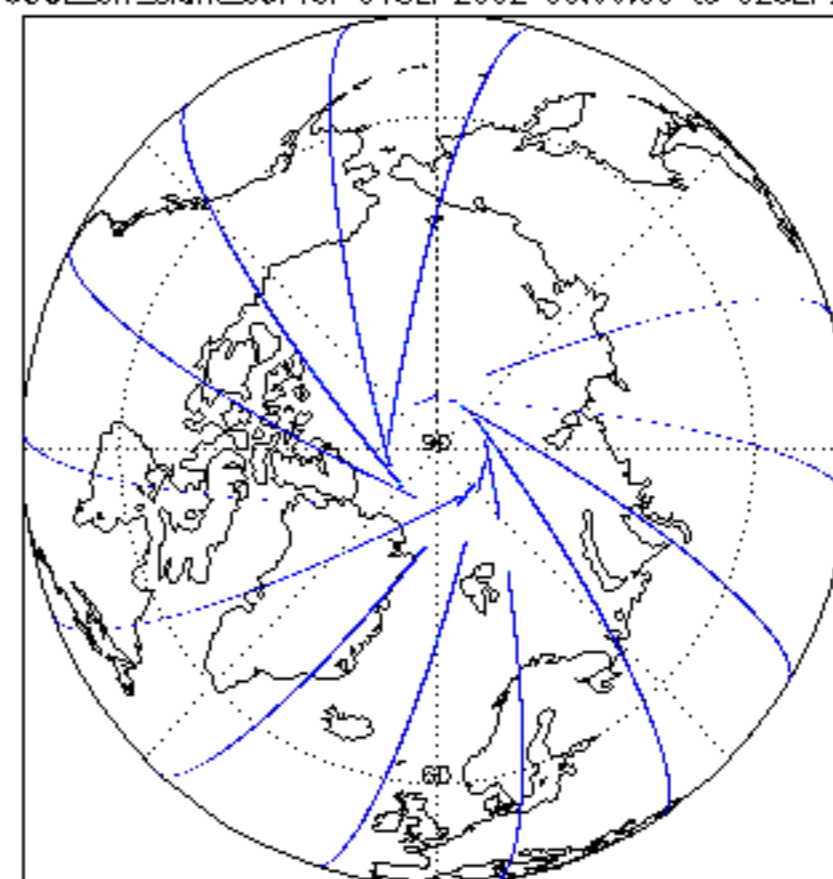
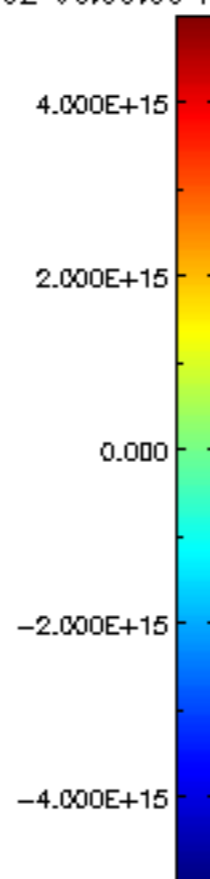
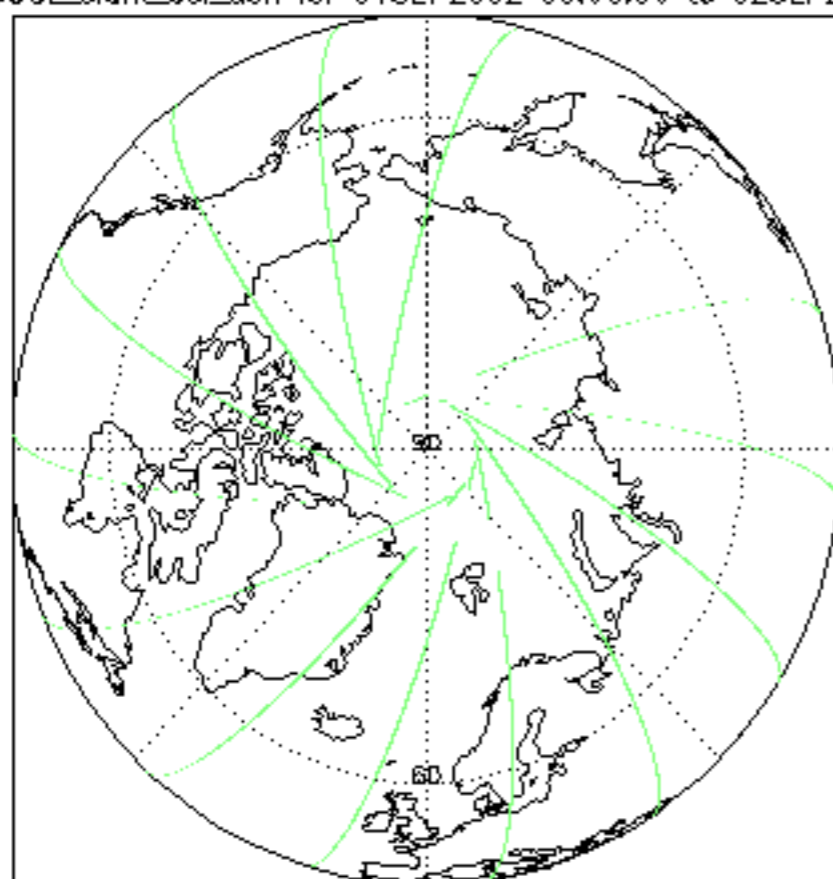


SCIOL2P\_NADUV7S02\_amf\_cl for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

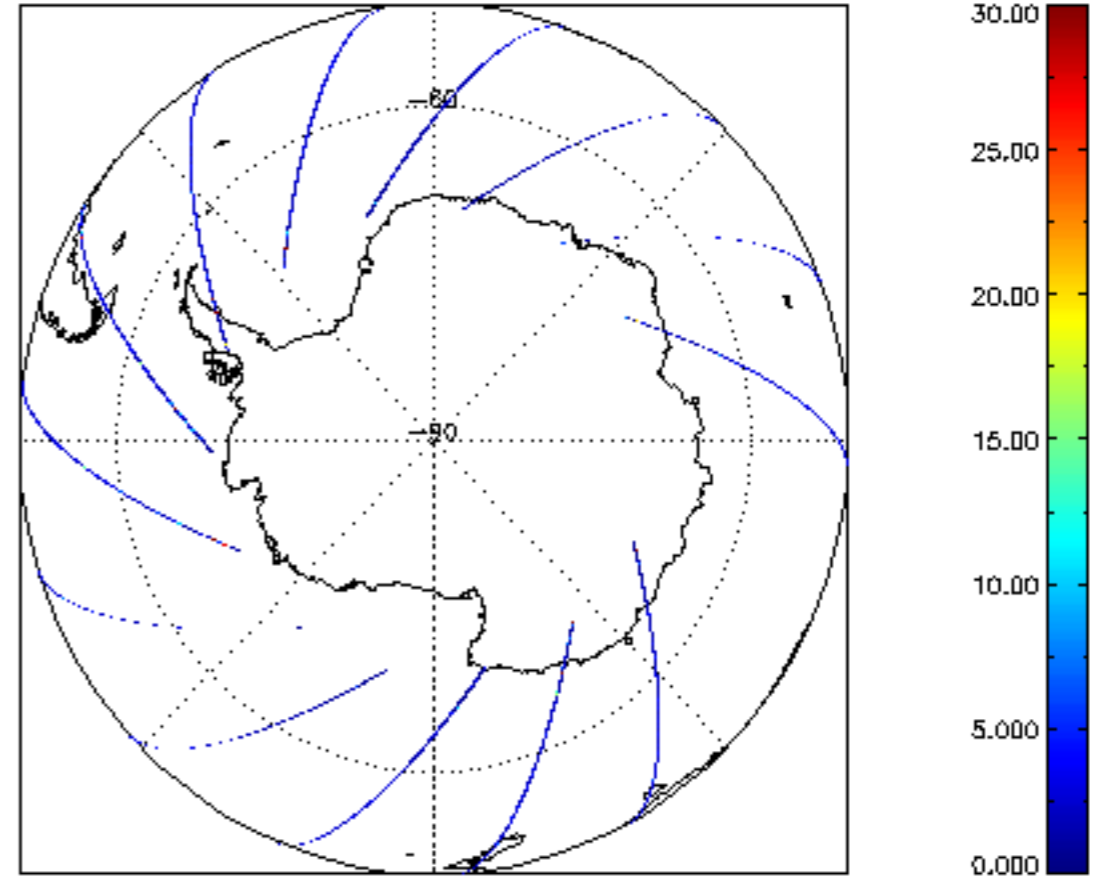
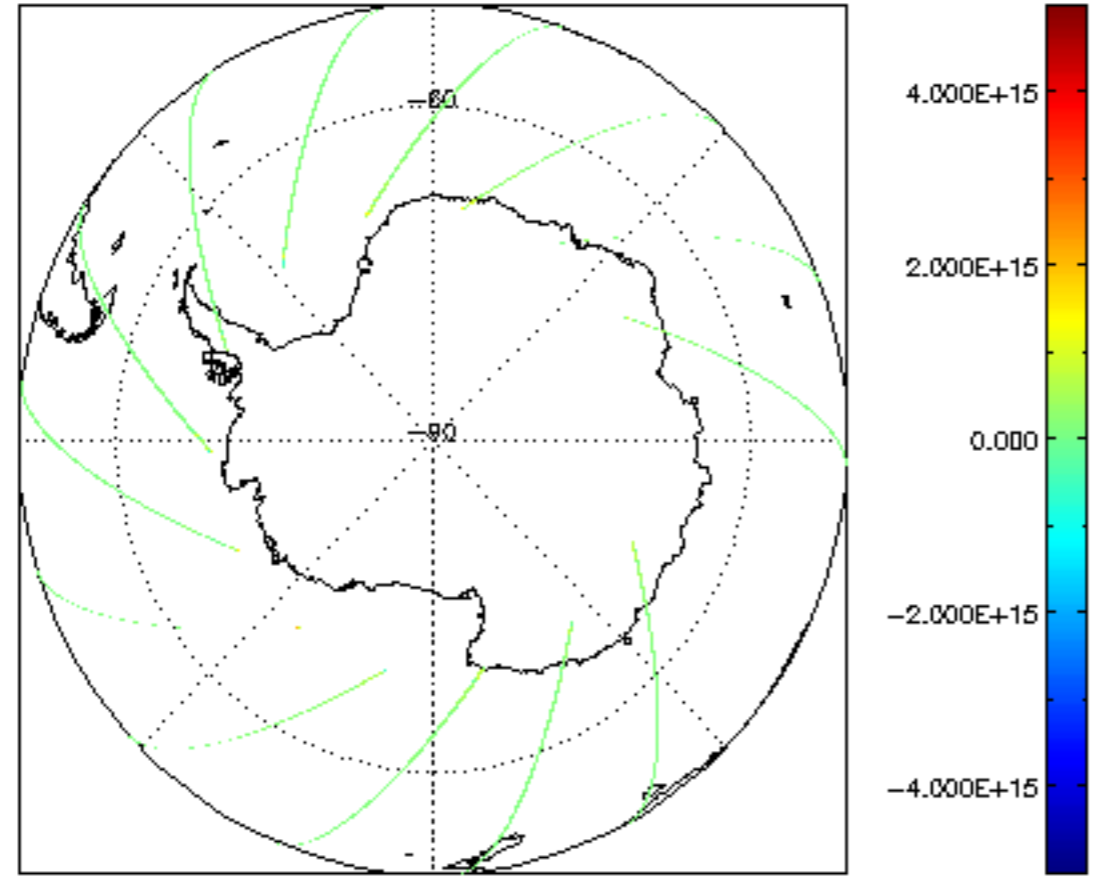


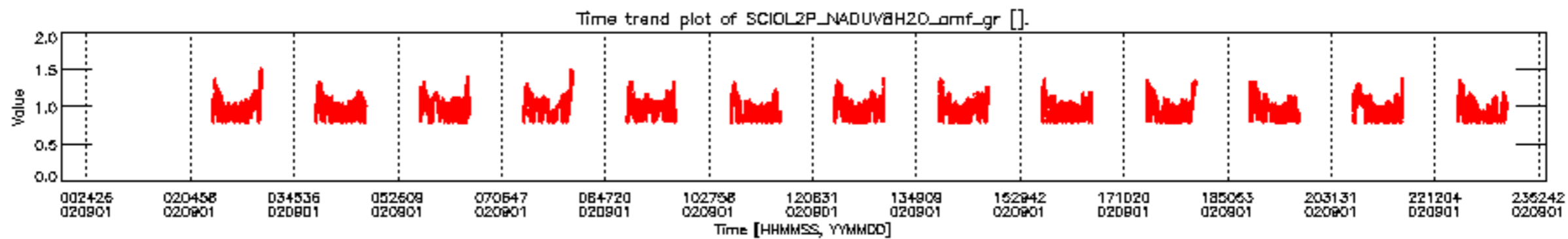
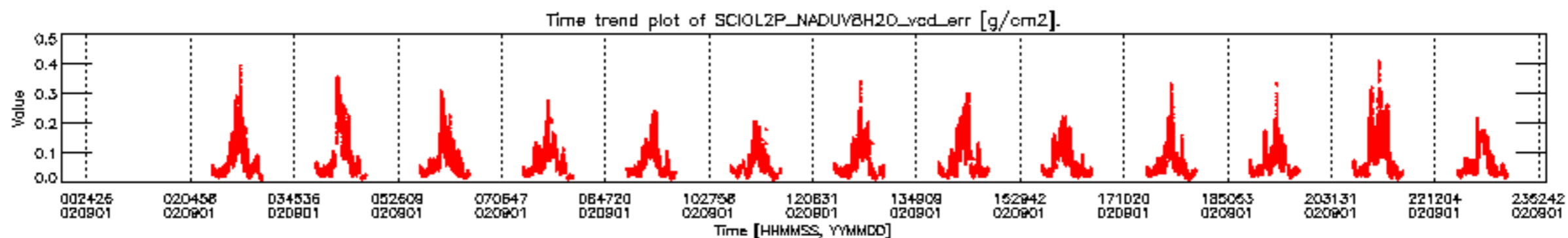
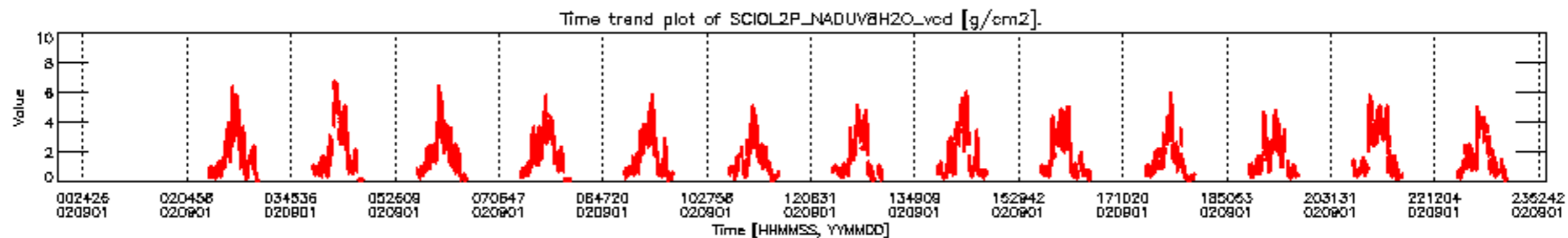


CIOL2P\_NADUV60CL\_slant\_col\_den for 01SEP2002 00:00:00 to 02SEP2002 00:00:00 np iCIOL2P\_NADUV60CL\_err\_slant\_col for 01SEP2002 00:00:00 to 02SEP2002 00:00:00 np

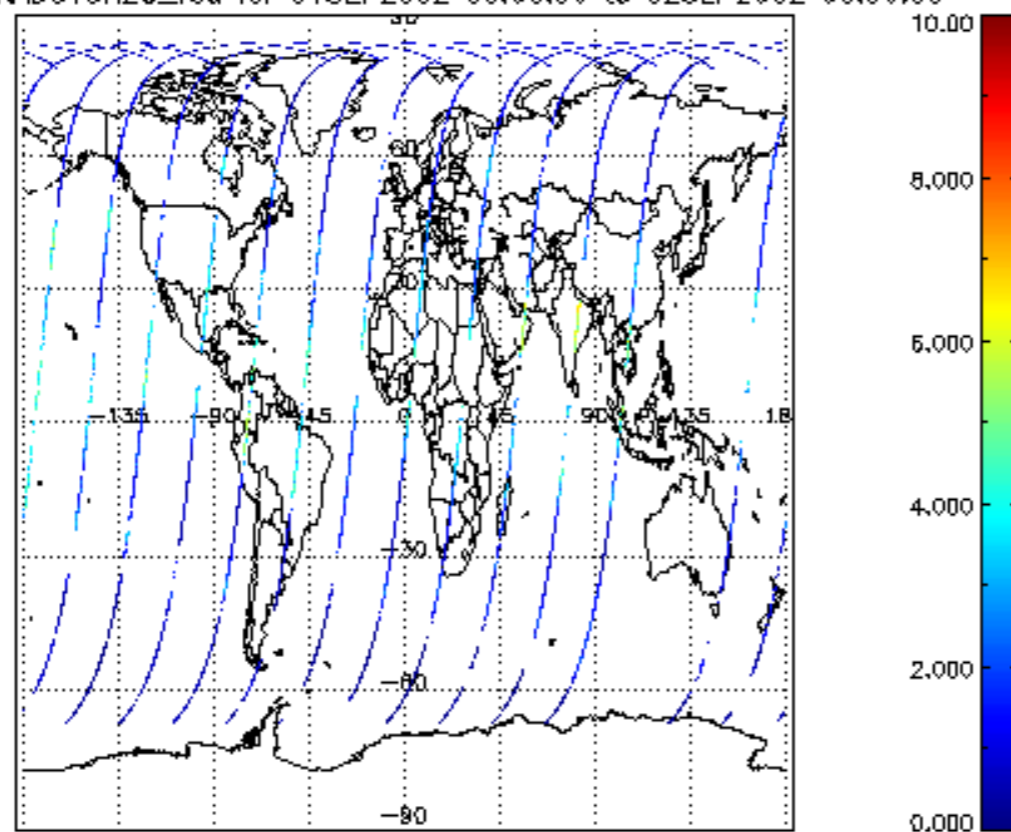


CIOL2P\_NADUV60CL\_slant\_col\_den for 01SEP2002 00:00:00 to 02SEP2002 00:00:00 sp iCIOL2P\_NADUV60CL\_err\_slant\_col for 01SEP2002 00:00:00 to 02SEP2002 00:00:00 sp

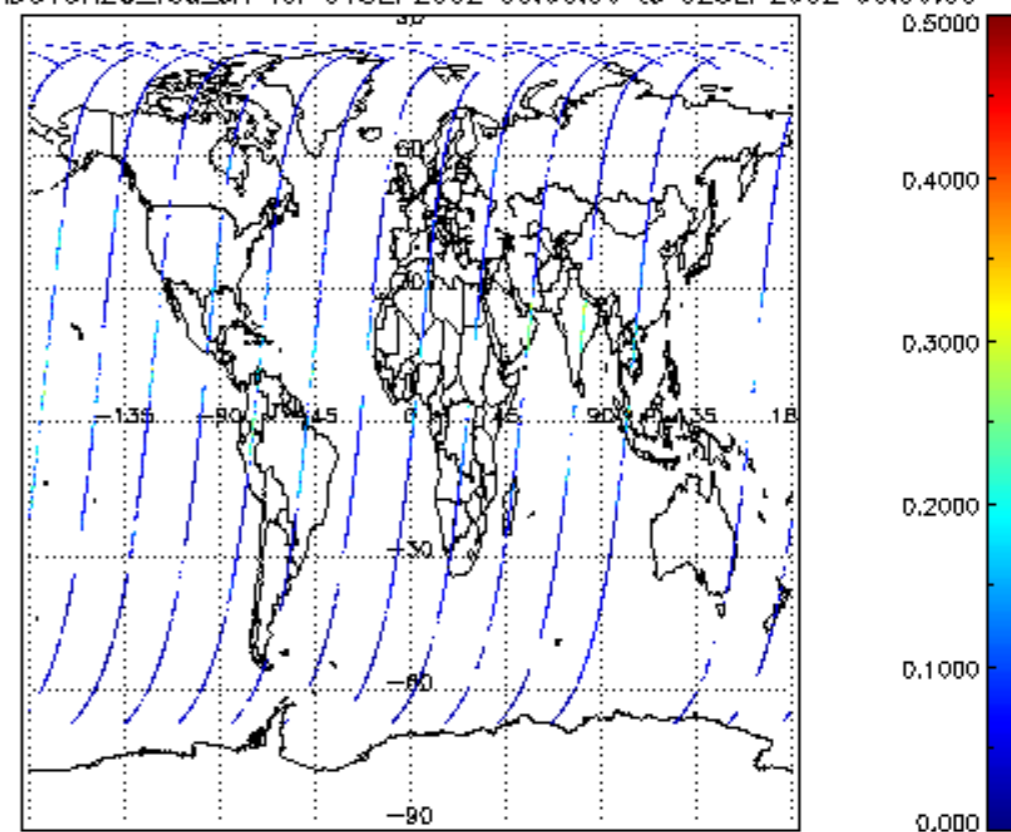




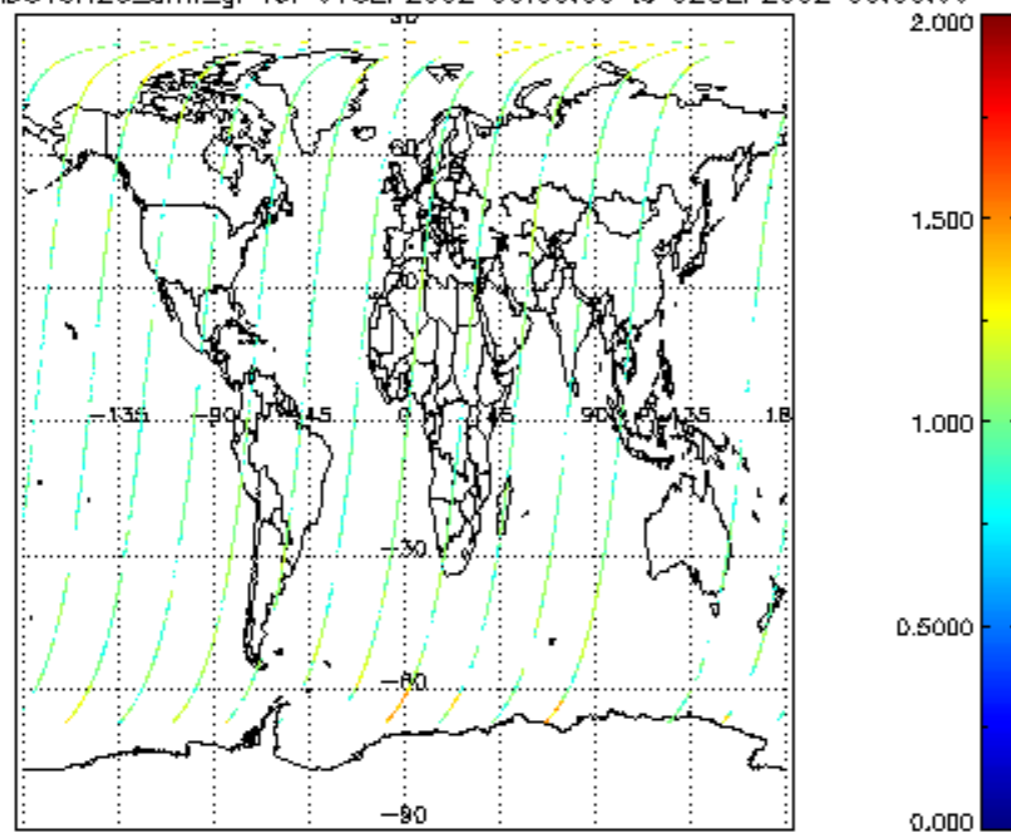
SCIOL2P\_NADUV8H2O\_vcd for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



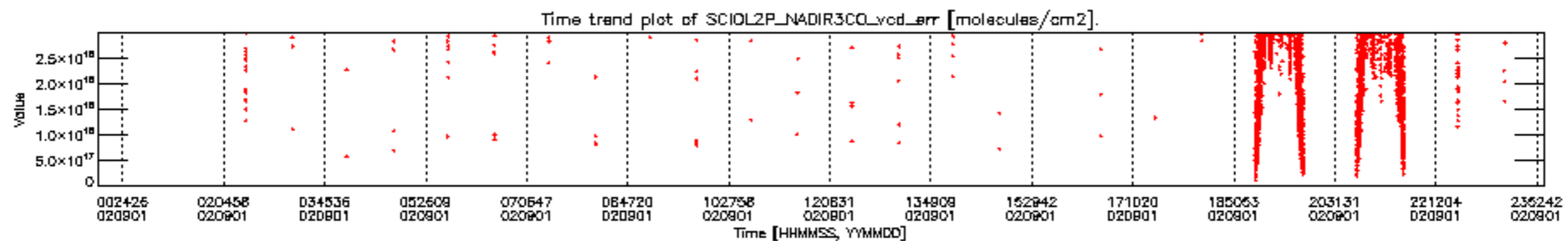
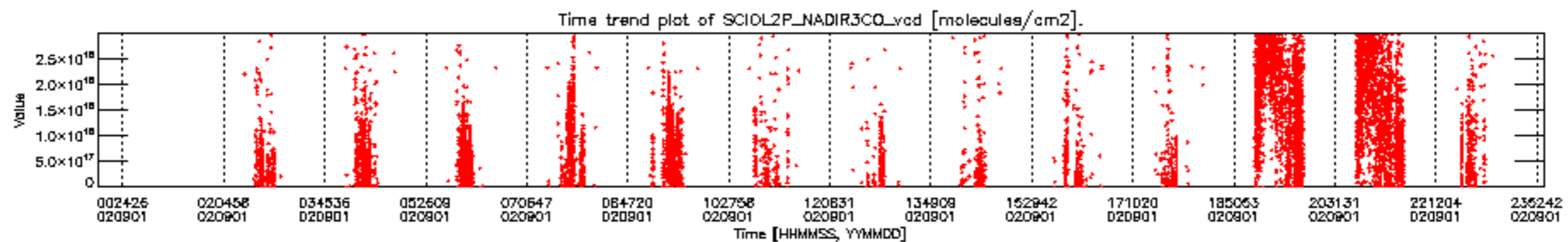
SCIOL2P\_NADUV8H2O\_vcd\_err for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



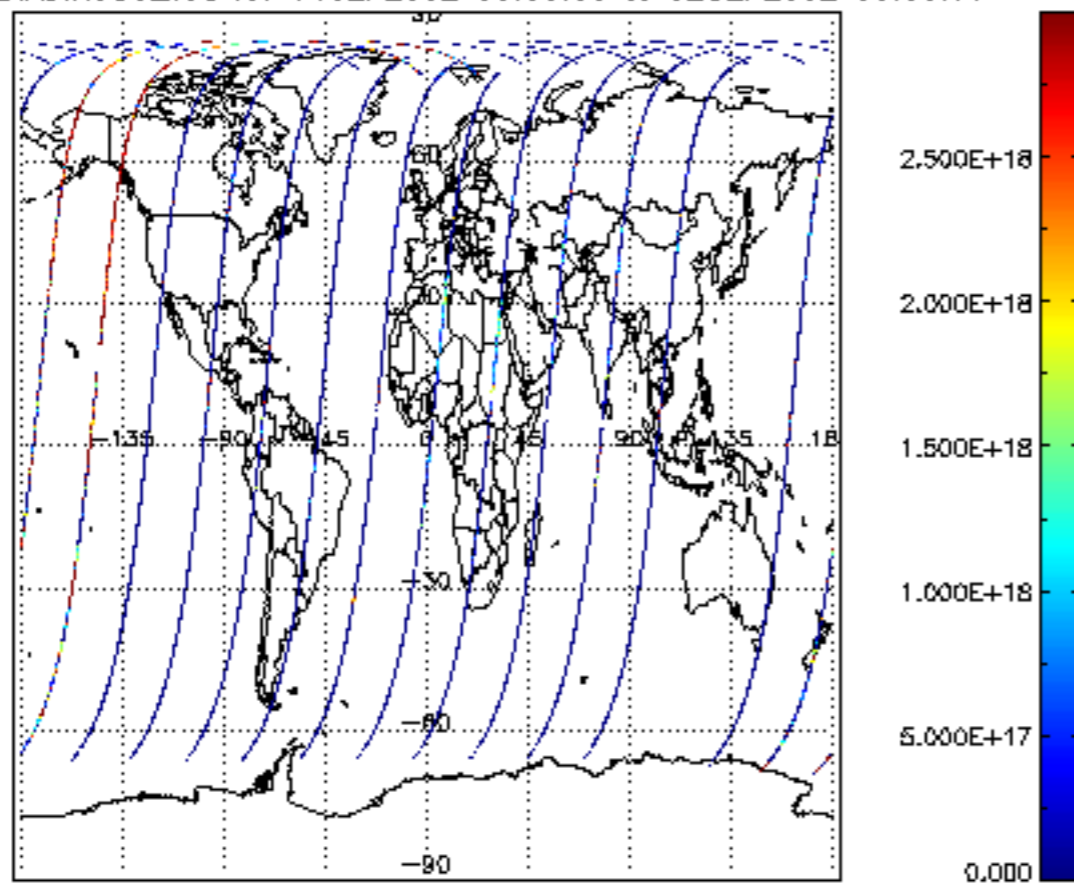
SCIOL2P\_NADUV8H2O\_amf\_gr for 01SEP2002 00:00:00 to 02SEP2002 00:00:00







SCIOL2P\_NADIR3CO\_vcd for 01SEP2002 00:00:00 to 02SEP2002 00:00:00



SCIOL2P\_NADIR3CO\_vcd\_err for 01SEP2002 00:00:00 to 02SEP2002 00:00:00

