

## 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 16:52:03
Data source version	SCIA-OL/5.02-W
Processing scope for products	02SEP2002 00:00:00 to 03SEP2002 00:00:00
Start time of first product within scope	02SEP2002 00:11:43
Stop time of last product within scope	02SEP2002 01:04:13
Total number of level 2 products	1
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__2PWDPA20020902_001143_000031502009_00088_02647_1569.N1</a>	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: 11700

Total number of cloud data DSRs with good quality flag (=0): 11700 (100.0 %)

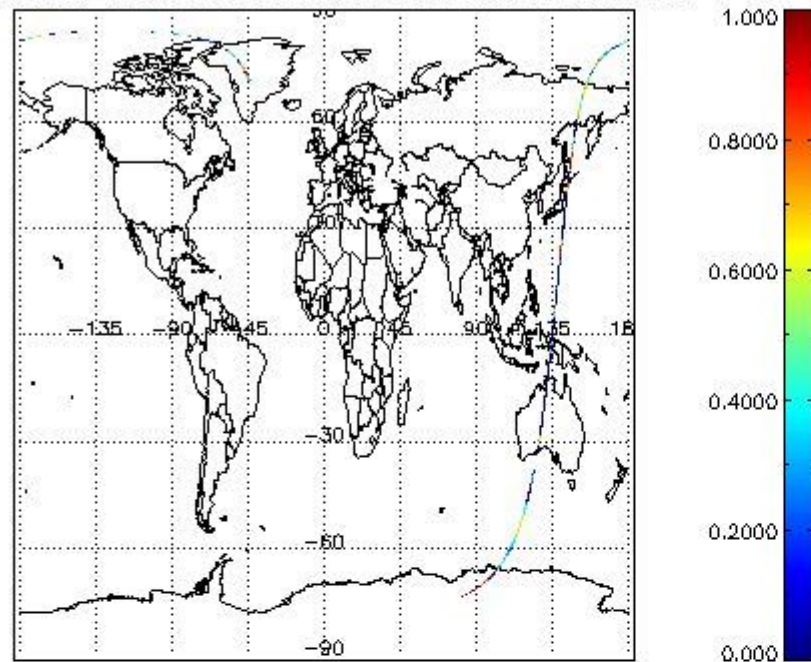
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	11700	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	11700	0.25000	0.25000	0.25000	0.25000	0.0000	s
CL_FRAC	11700	0.30193	0.22983	0.0000	1.0000	0.31674	
CL_FRAC_ERR	11700	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	11700	8.0000	8.0000	8.0000	8.0000	0.0000	
PMD_READ_CL[0]	11700	0.38410	0.0000	0.0000	8.0000	1.7024	-
PMD_READ_CL[1]	11700	2.9131	0.0000	0.0000	8.0000	3.8324	-
CL_TOP_HEIGHT	10342	2.8588	1.1000	0.0000	17.000	3.8388	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	10342	44.467	26.913	0.0000	101.00	45.855	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	11700	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	11700	11010000	11001000	11000000	11100000	3728.5	
AERO_ABSO_IND	11700	3.3445	3.5815	0.0000	6.7930	1.9571	
AERO_IND_DIAG	11700	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	11700	10100111	11000000	00000000	11000000	16521.	

**Time and geolocation plots:**

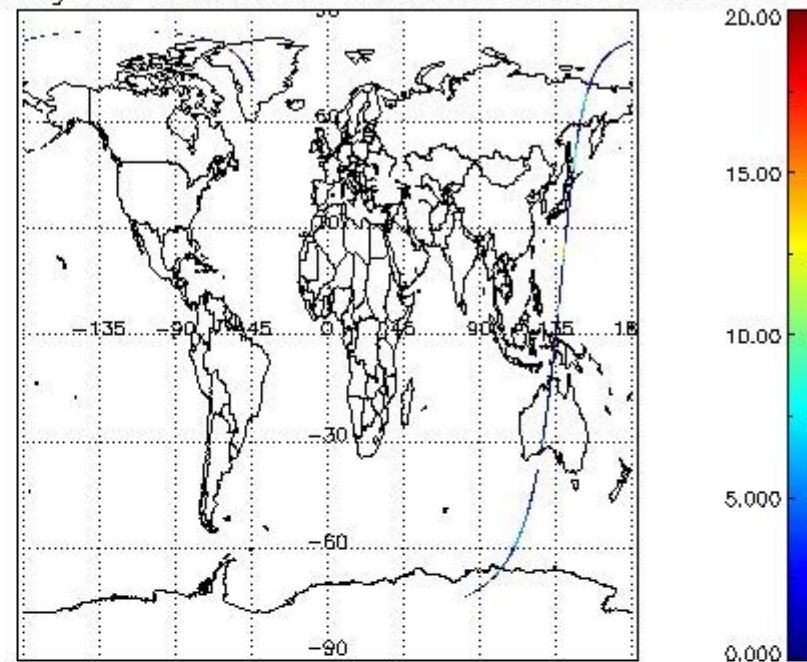
Plots are available for the following parameters:

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

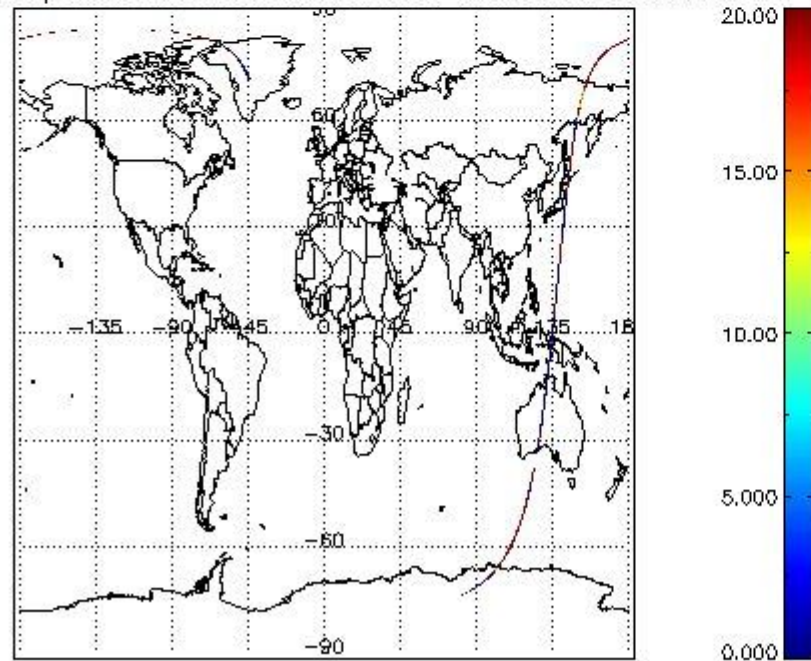
cLfrac for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



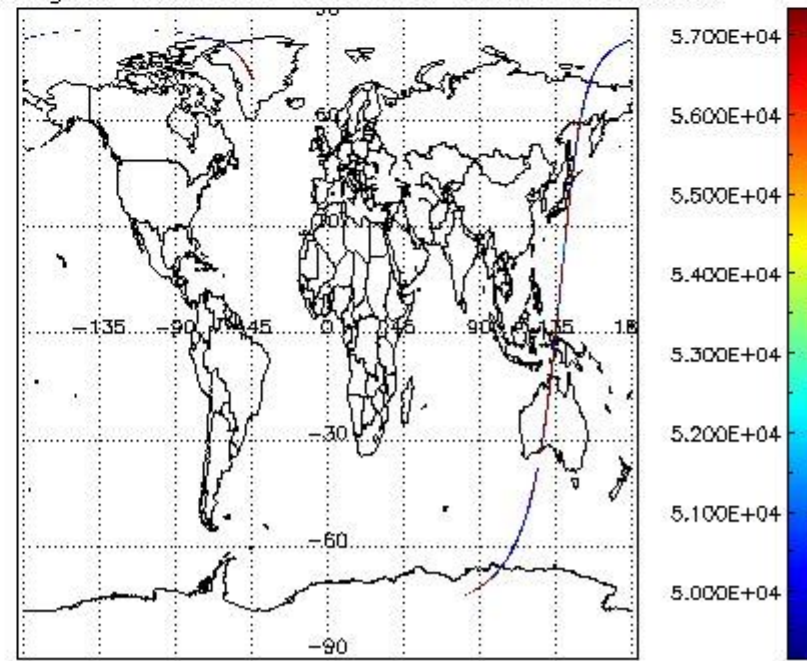
cL\_top\_height for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



cLopt\_depth for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



cloud\_flags for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



## 2.2.2 Nadir

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

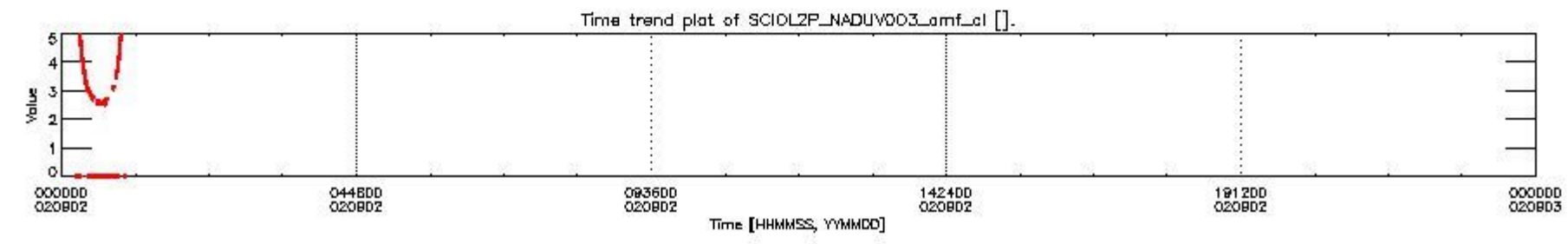
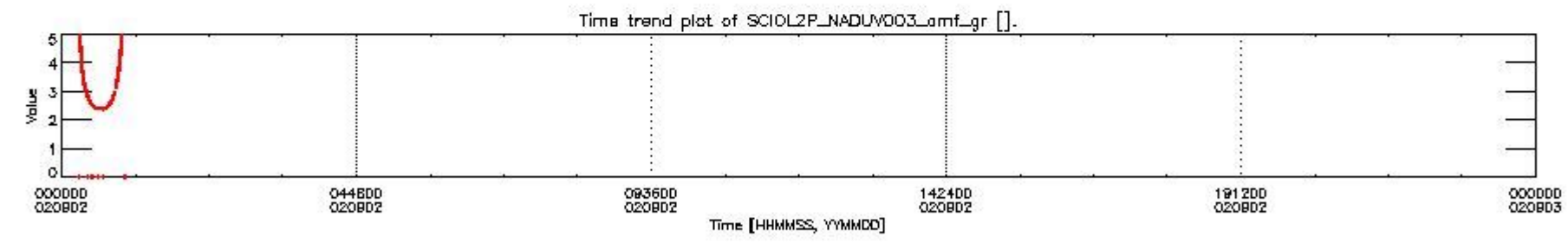
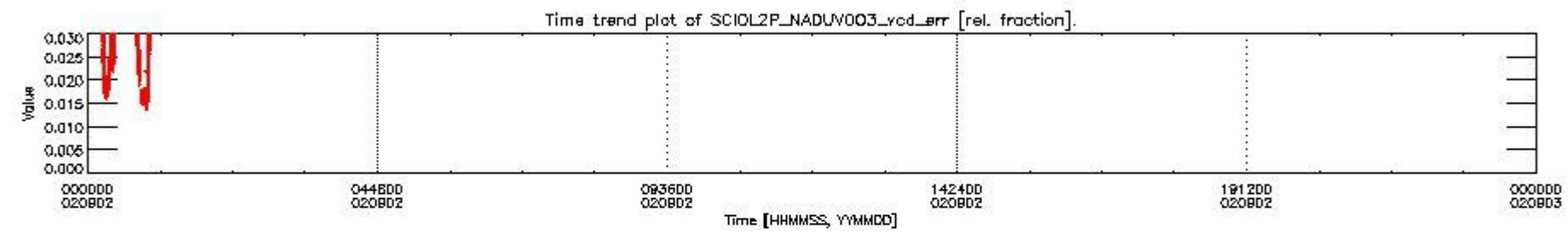
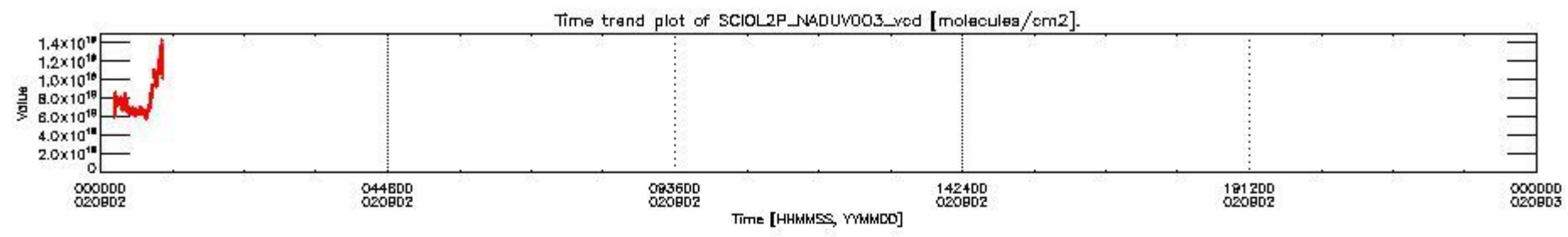
The following data items are currently included into this section:

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

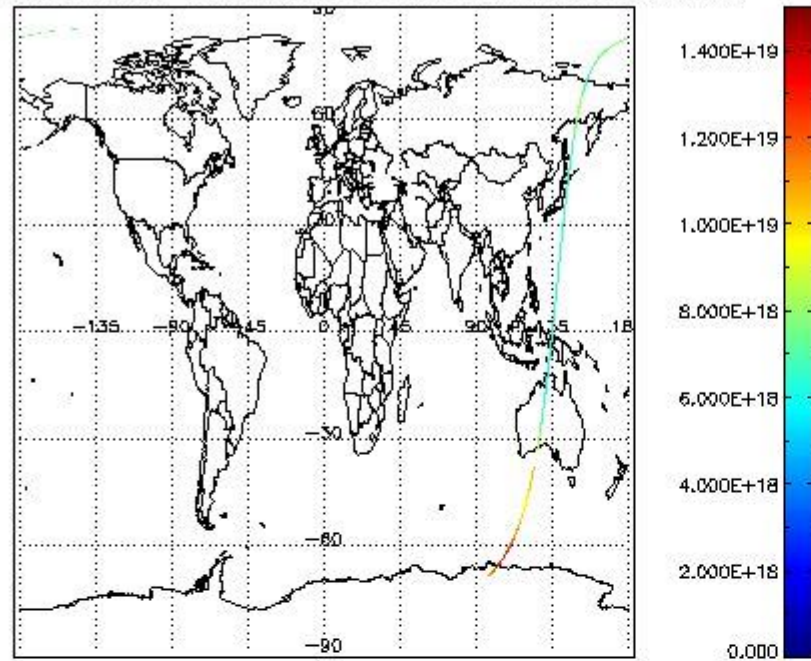
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing\_start time as suggested by the product sensing\_start time in the MPH.

#### 2.2.2.1 O3 (UV0)

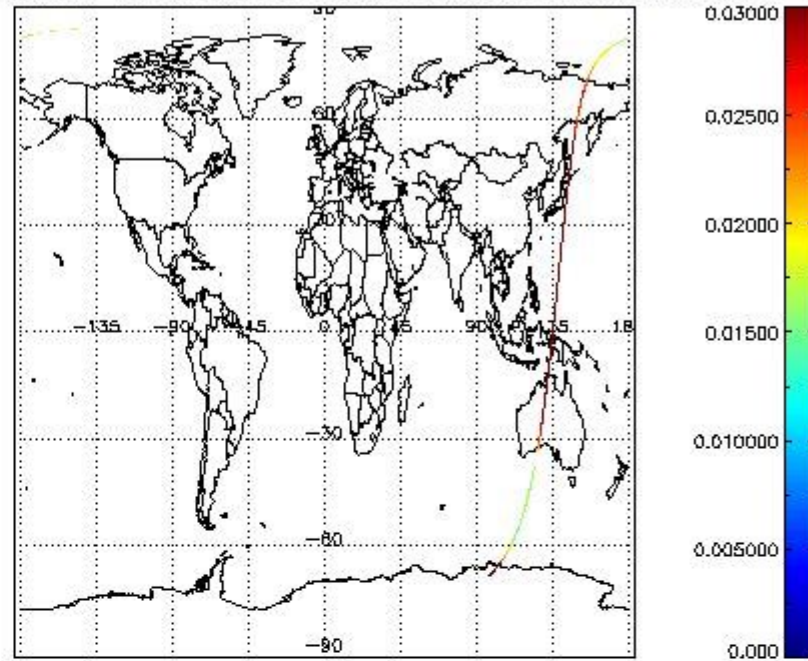




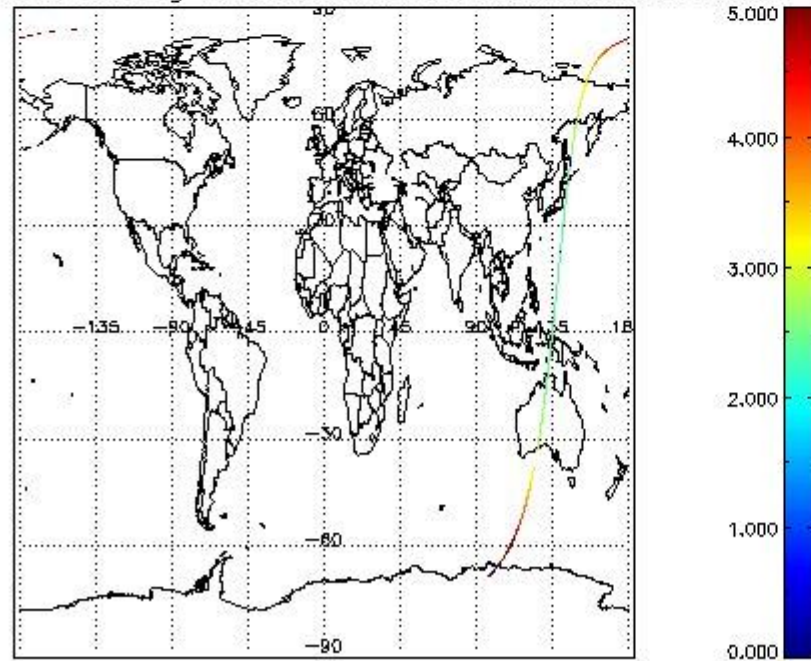
SCIOL2P\_NADUV003\_vcd for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



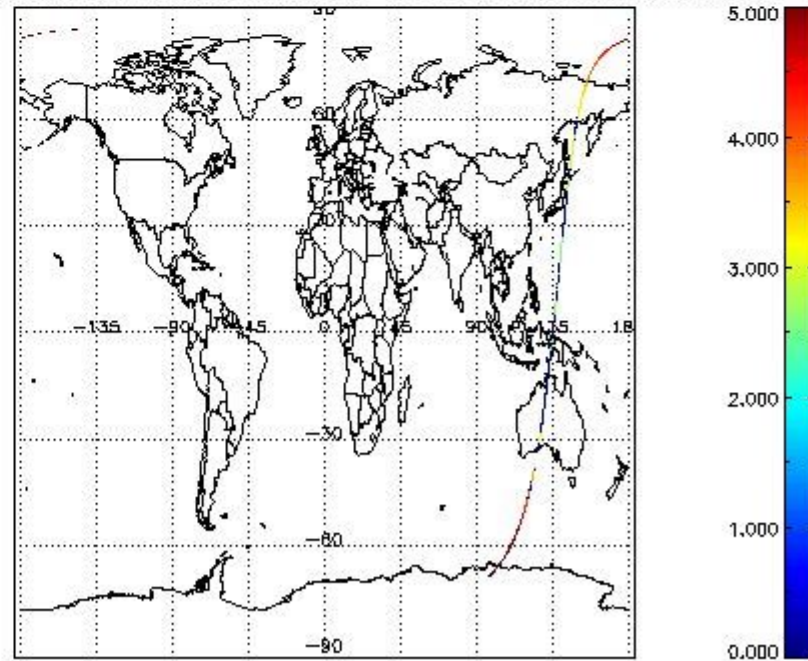
SCIOL2P\_NADUV003\_vcd\_err for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



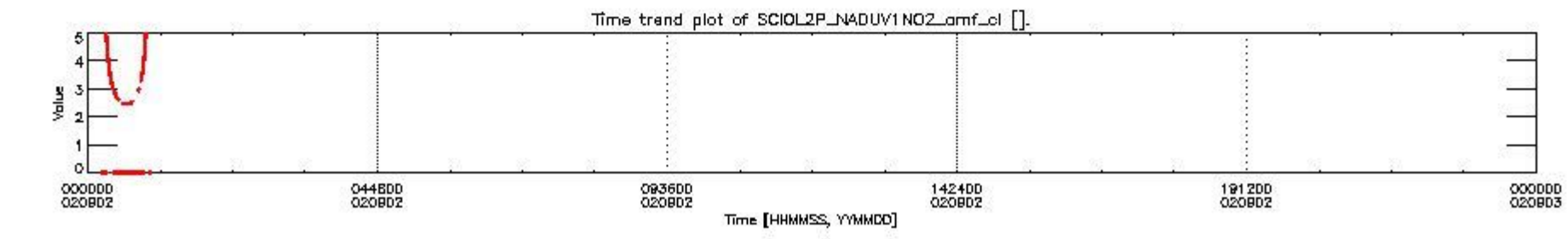
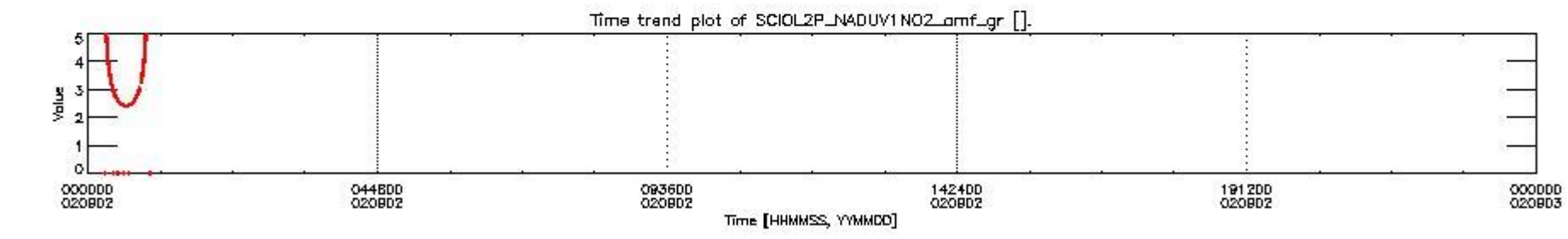
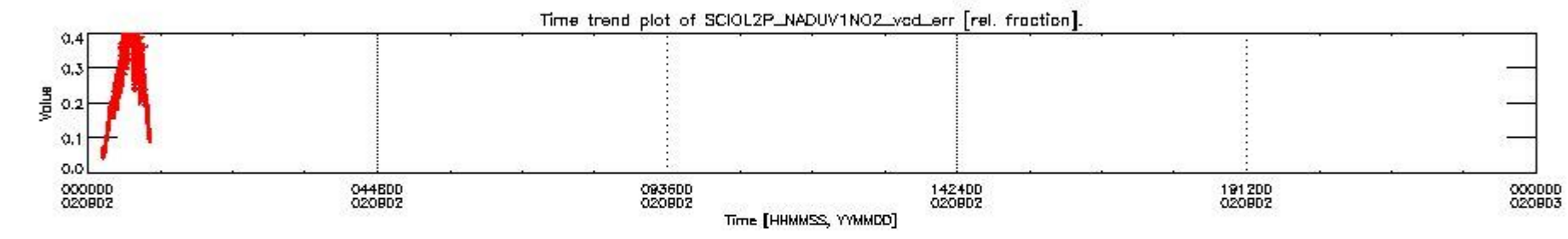
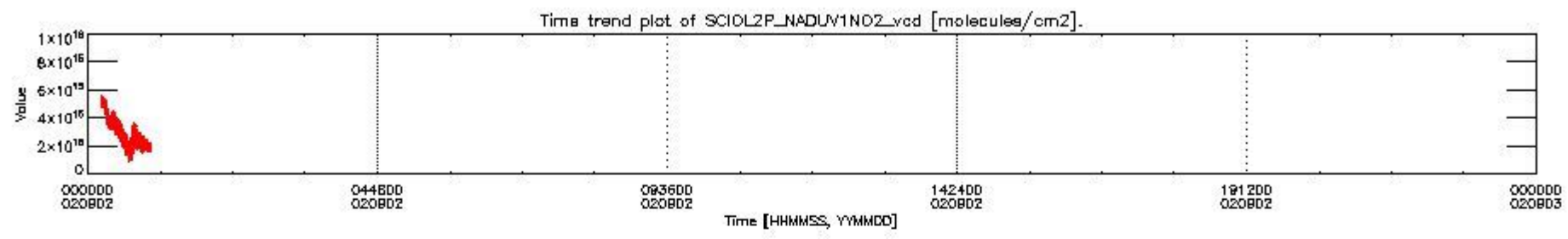
SCIOL2P\_NADUV003\_amf\_gr for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



SCIOL2P\_NADUV003\_amf\_cl for 02SEP2002 00:00:00 to 03SEP2002 00:00:00

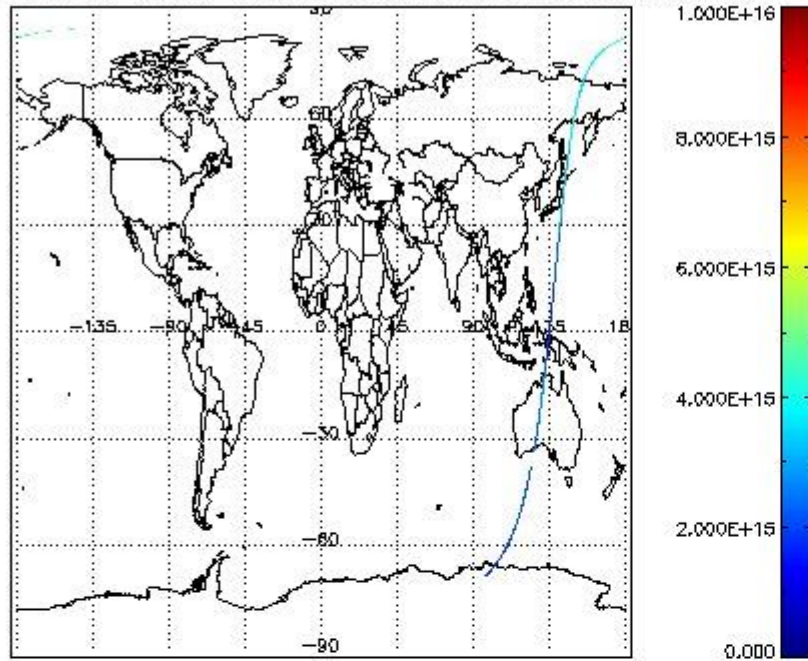


2.2.2.2 NO2 (UV1)

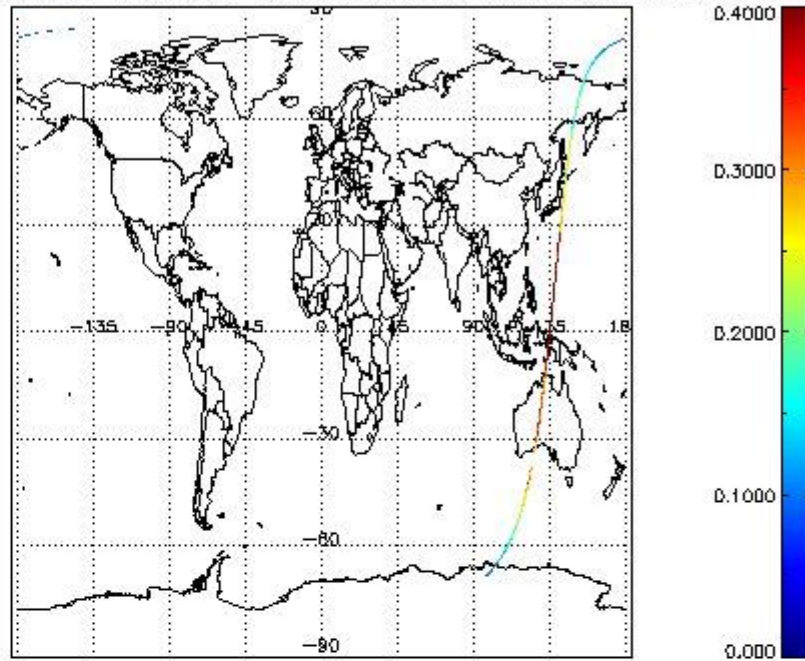




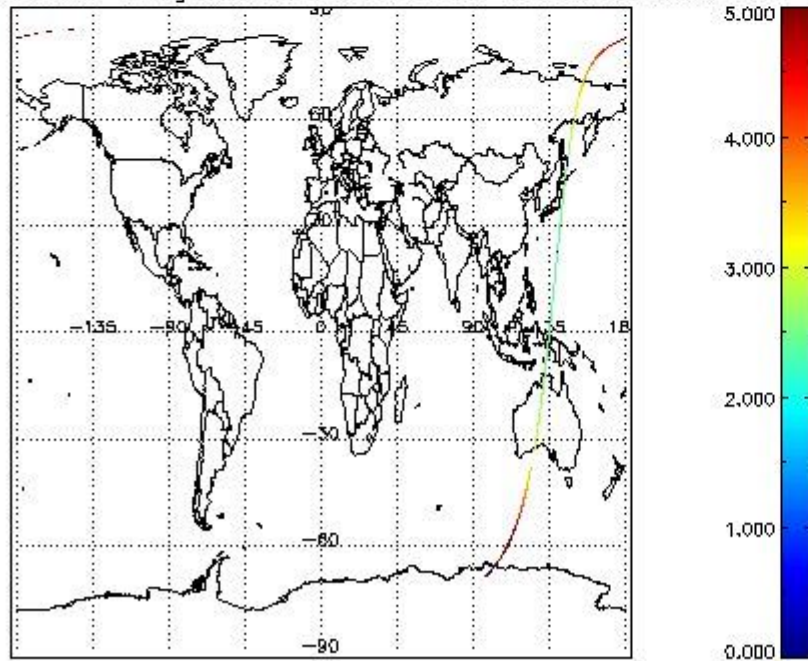
SCIOL2P\_NADUV1NO2\_vcd for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



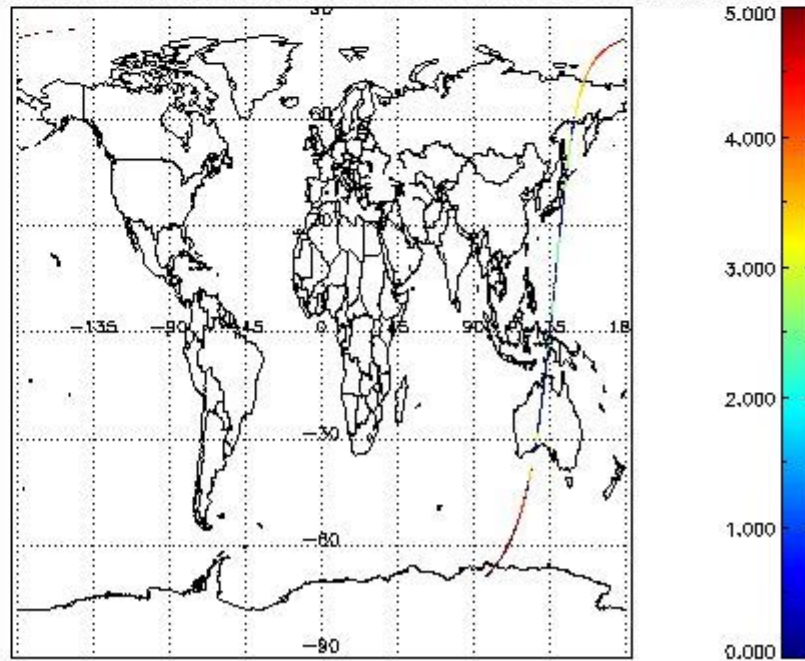
SCIOL2P\_NADUV1NO2\_vcd\_err for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



SCIOL2P\_NADUV1NO2\_amf\_gr for 02SEP2002 00:00:00 to 03SEP2002 00:00:00

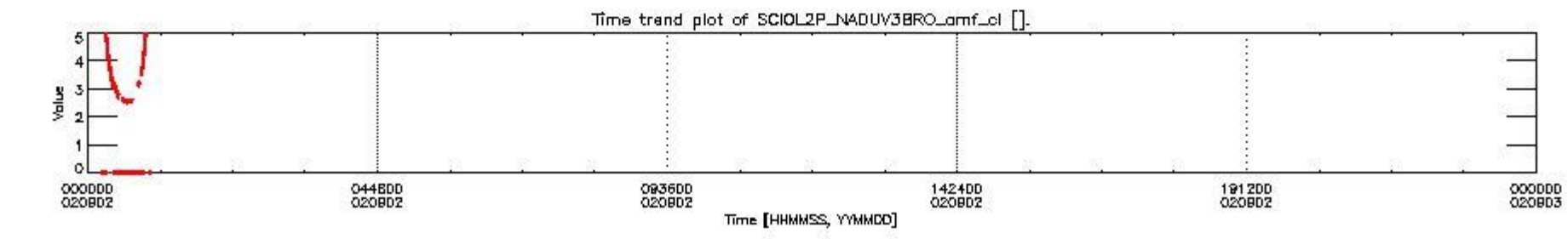
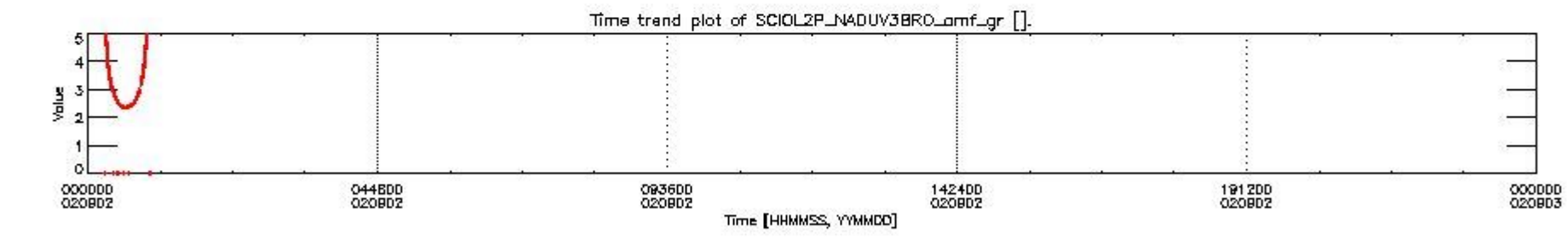
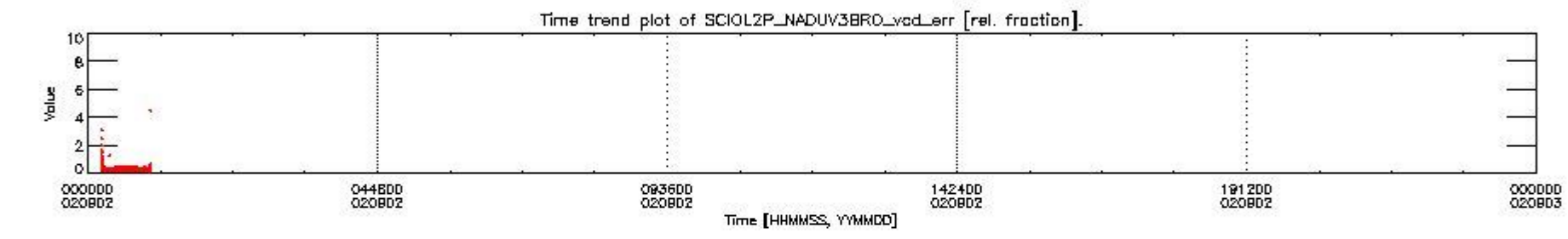
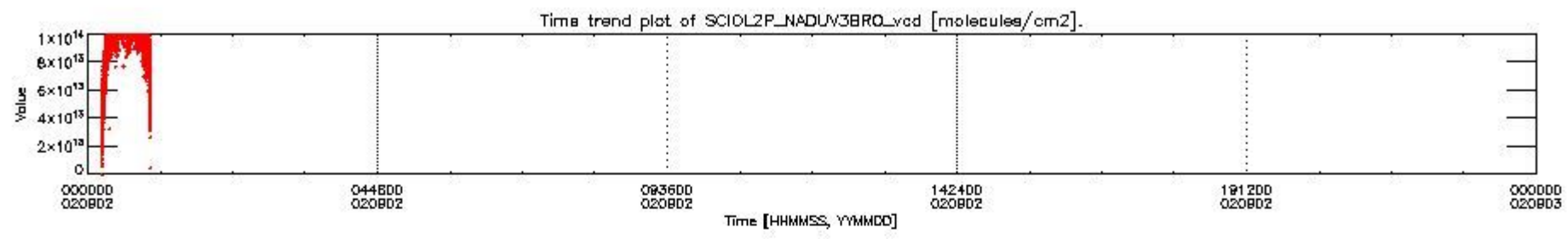


SCIOL2P\_NADUV1NO2\_amf\_cl for 02SEP2002 00:00:00 to 03SEP2002 00:00:00

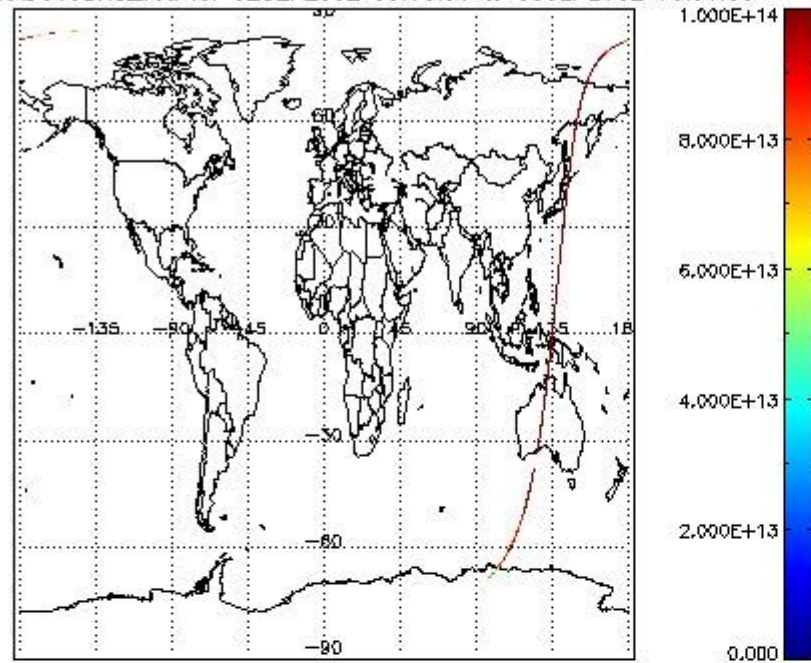


2.2.2.3 BrO (UV3)

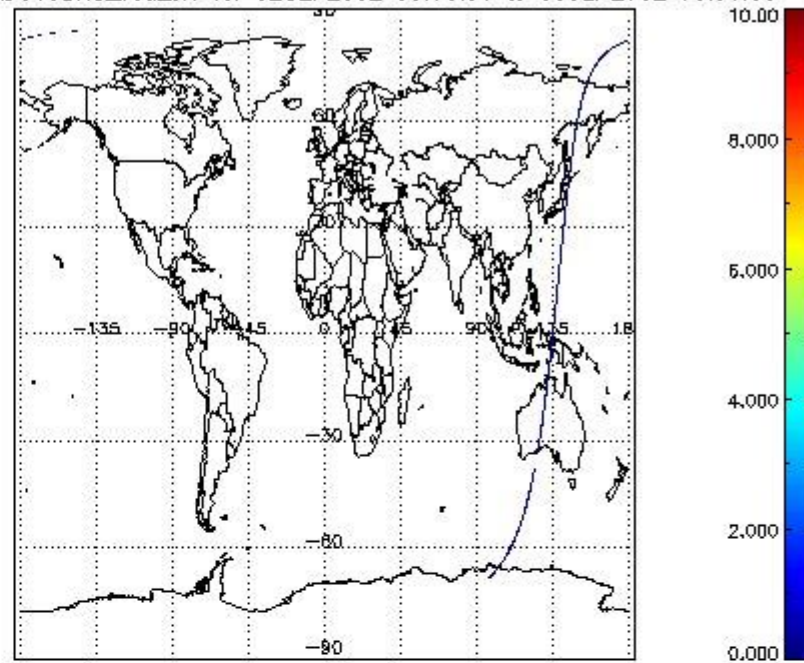




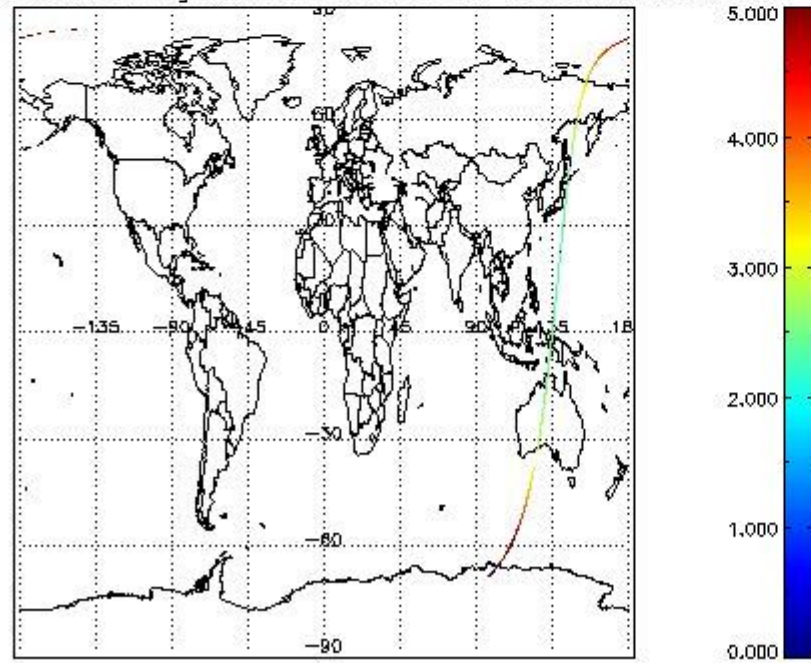
SCIOL2P\_NADUV3BRO\_vcd for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



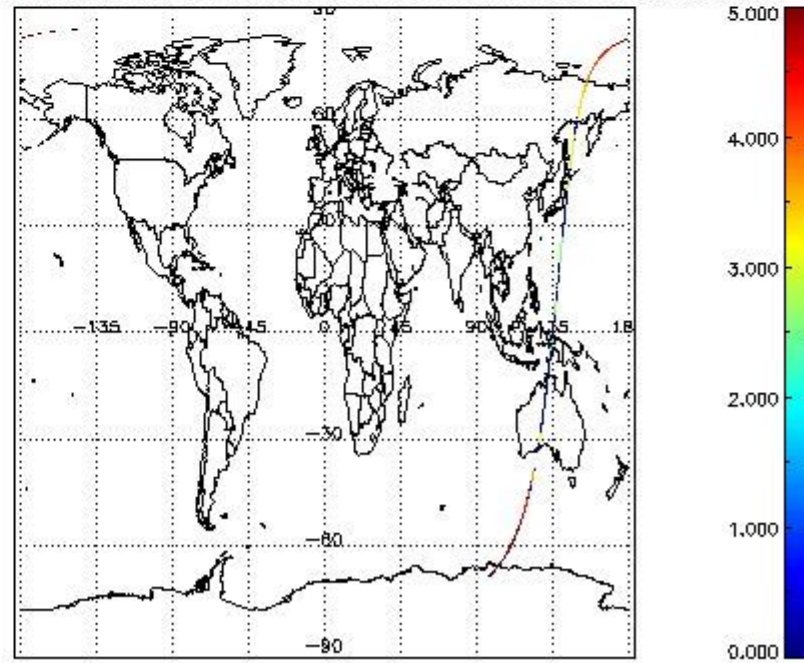
SCIOL2P\_NADUV3BRO\_vcd\_err for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



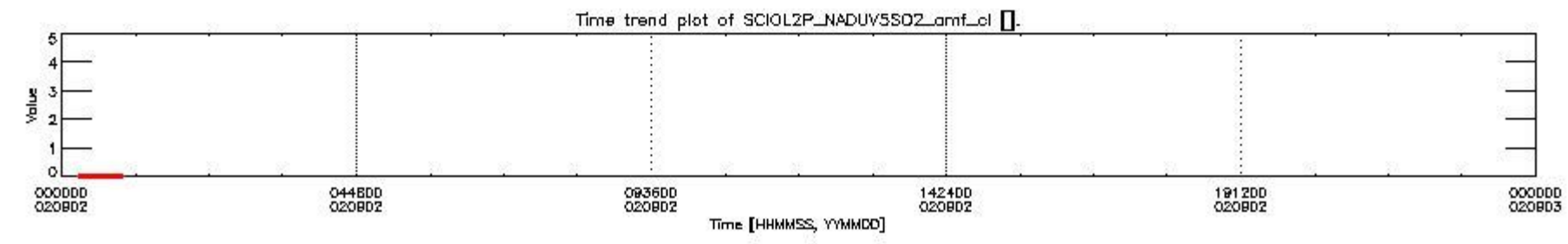
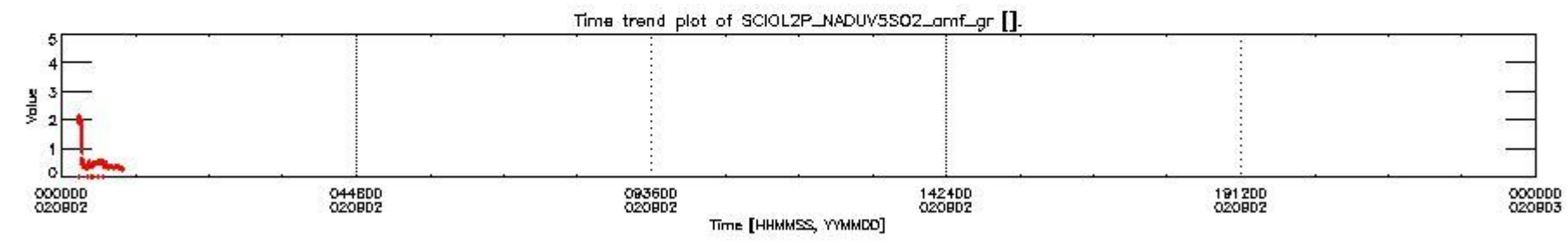
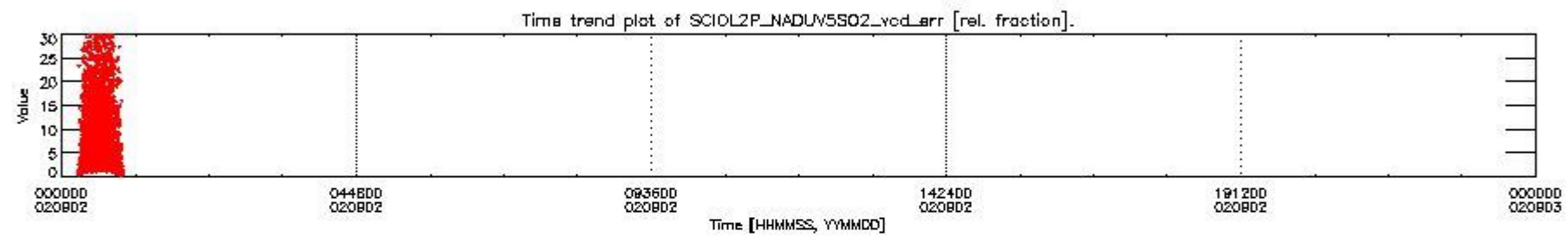
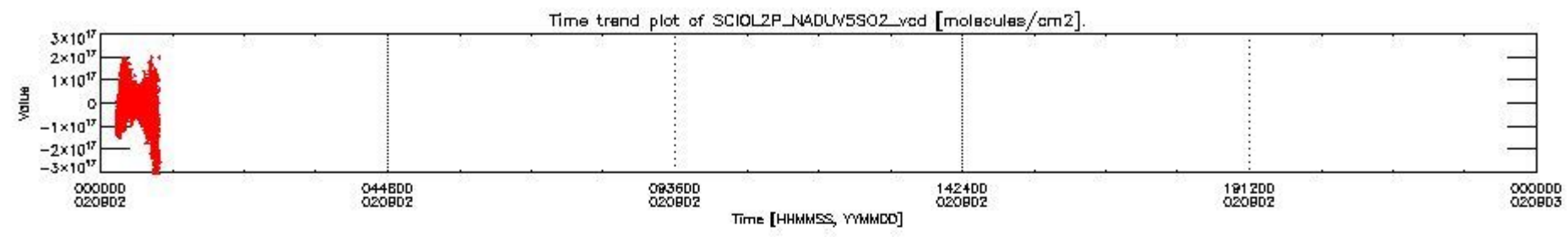
SCIOL2P\_NADUV3BRO\_amf\_gr for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



SCIOL2P\_NADUV3BRO\_amf\_cl for 02SEP2002 00:00:00 to 03SEP2002 00:00:00

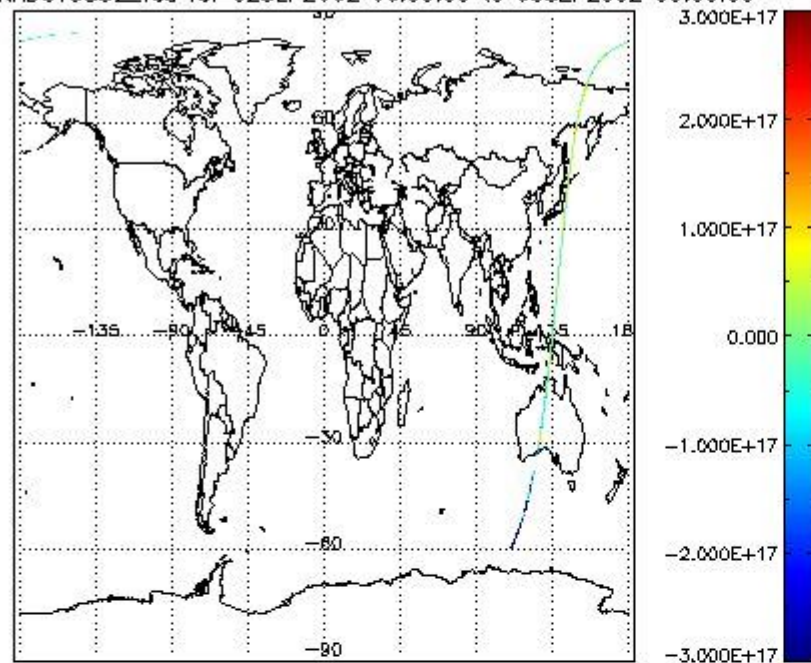


2.2.2.4 SO2 (UV5)

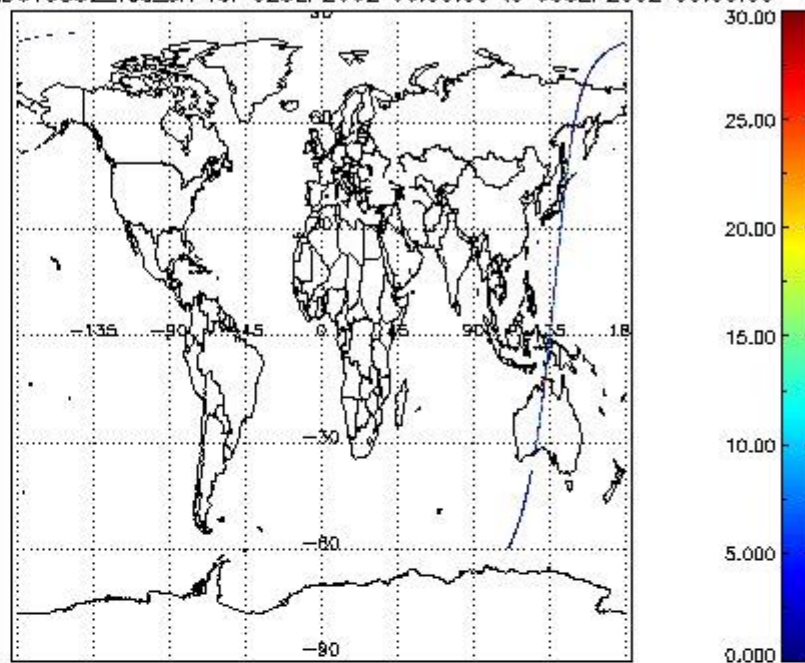




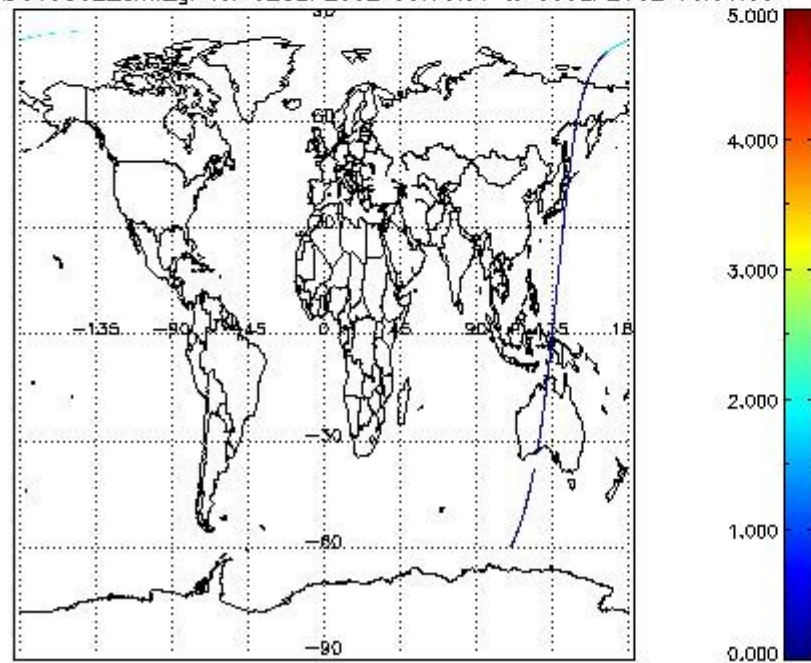
SCIOL2P\_NADUV5S02\_vcd for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



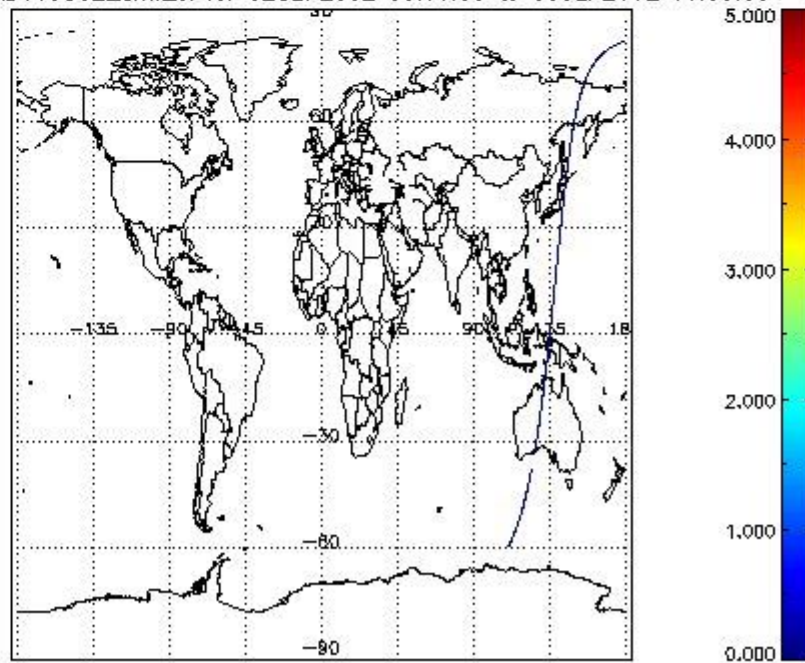
SCIOL2P\_NADUV5S02\_vcd\_err for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



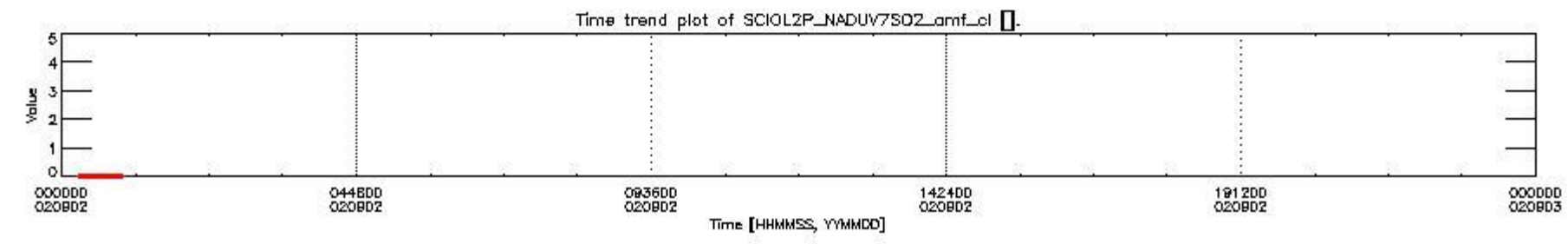
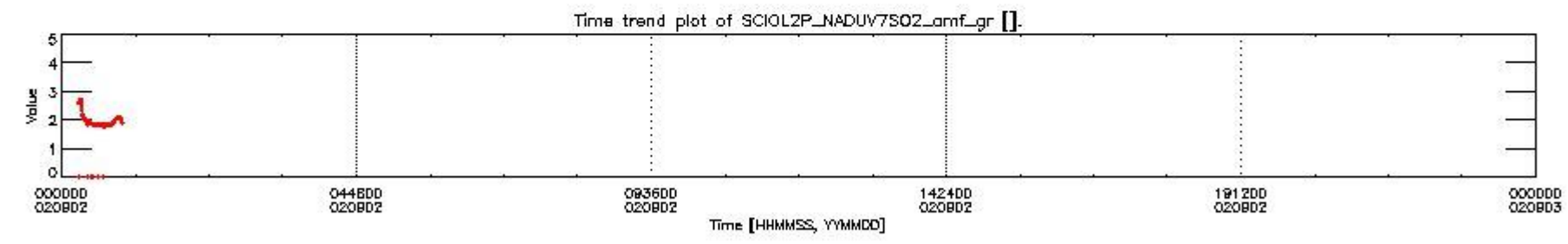
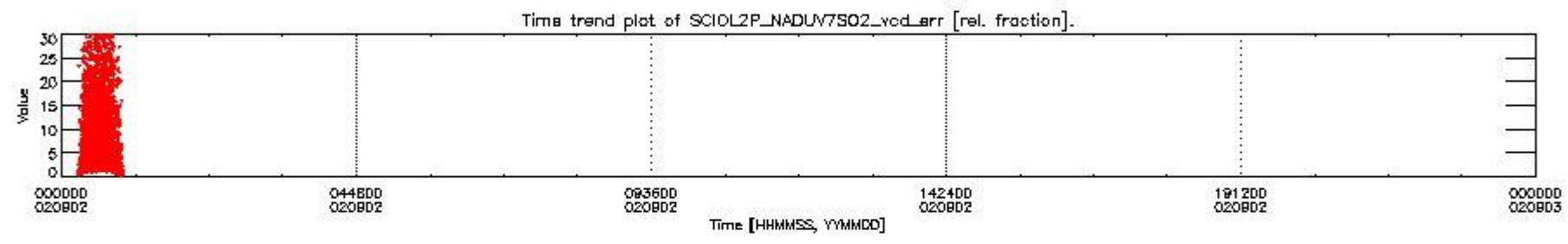
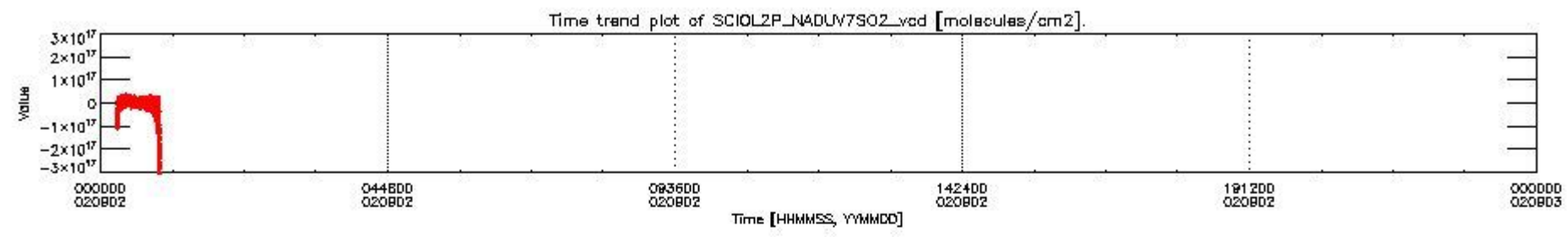
SCIOL2P\_NADUV5S02\_amf\_gr for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



SCIOL2P\_NADUV5S02\_amf\_cl for 02SEP2002 00:00:00 to 03SEP2002 00:00:00

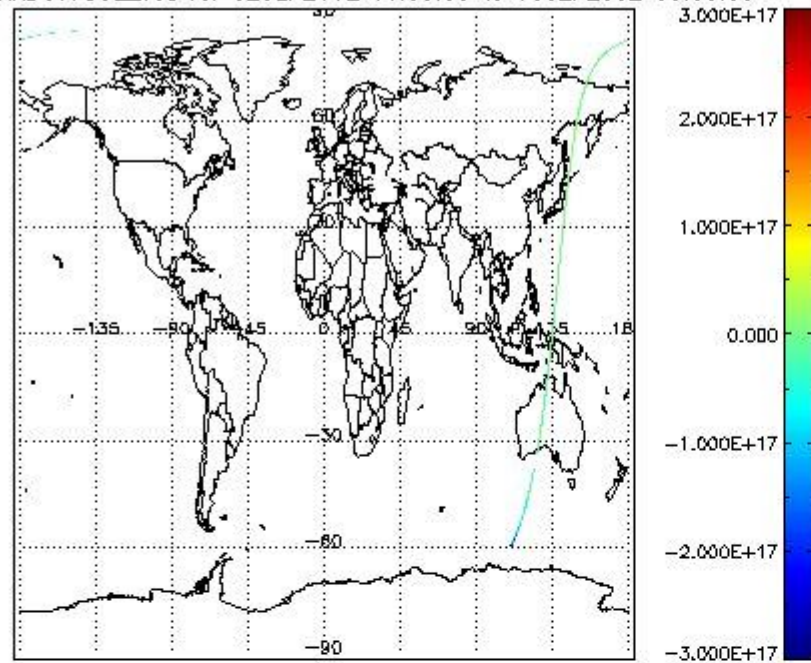


2.2.2.5 SO2 (UV7)

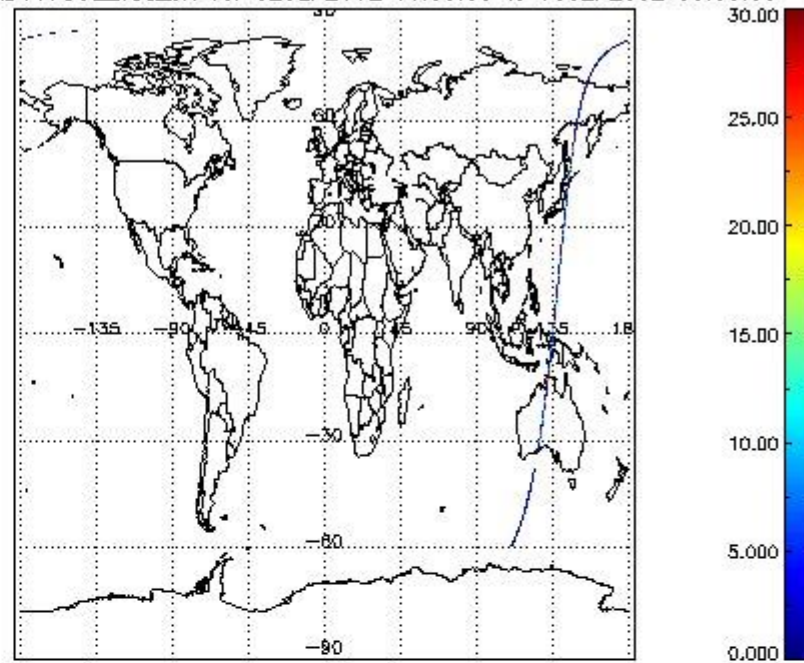




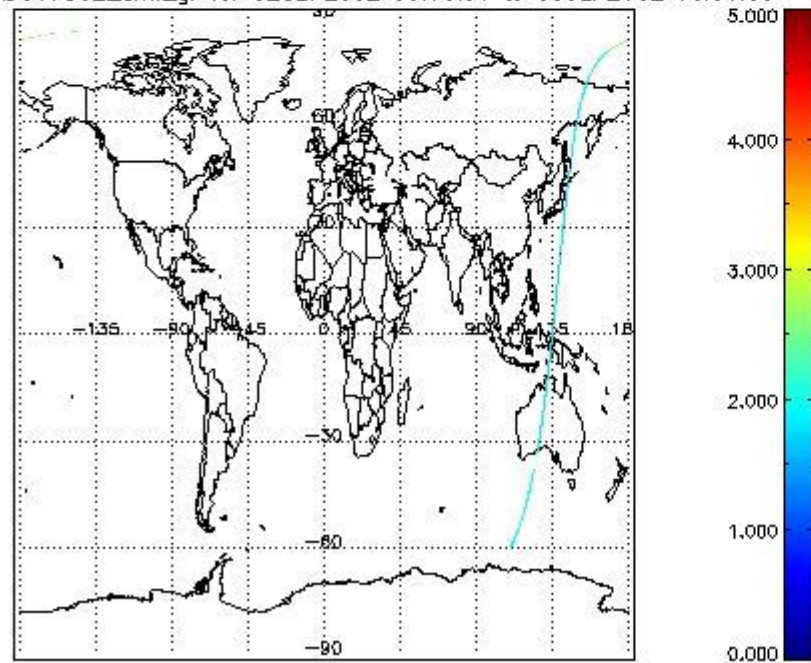
SCIOL2P\_NADUV7S02\_vcd for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



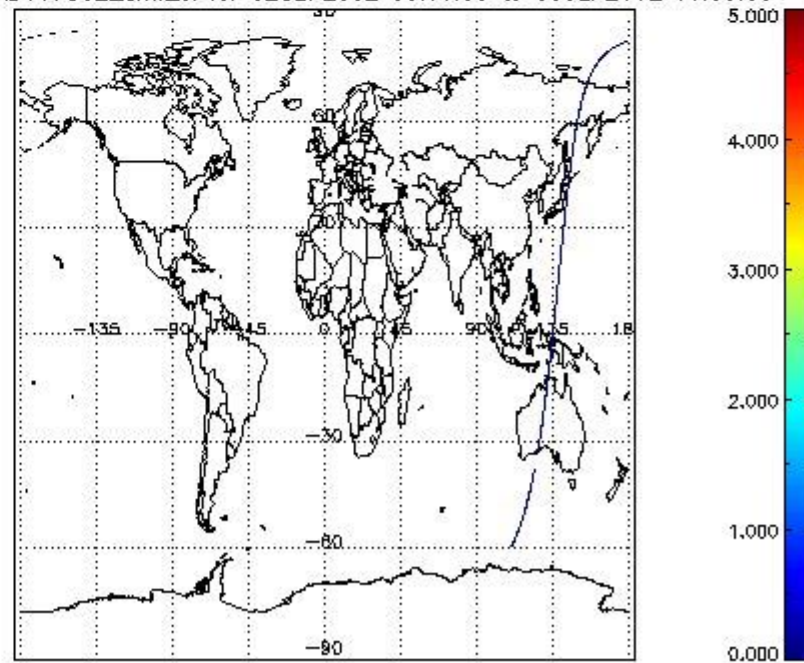
SCIOL2P\_NADUV7S02\_vcd\_err for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



SCIOL2P\_NADUV7S02\_amf\_gr for 02SEP2002 00:00:00 to 03SEP2002 00:00:00

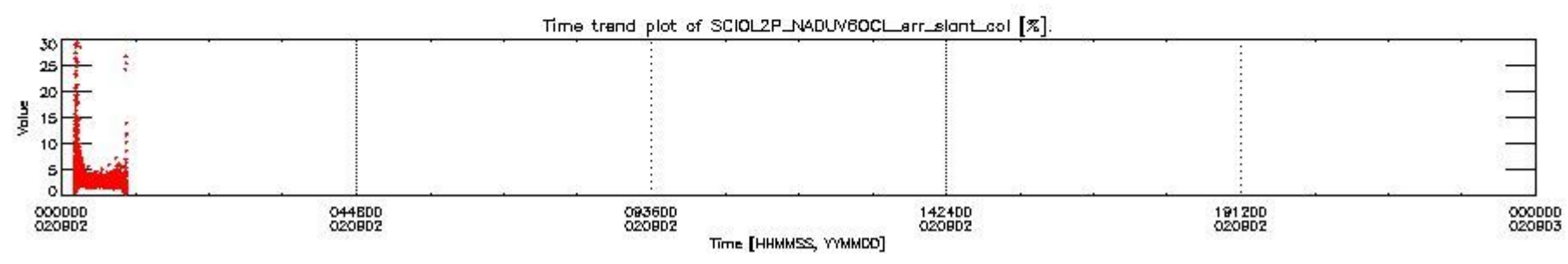
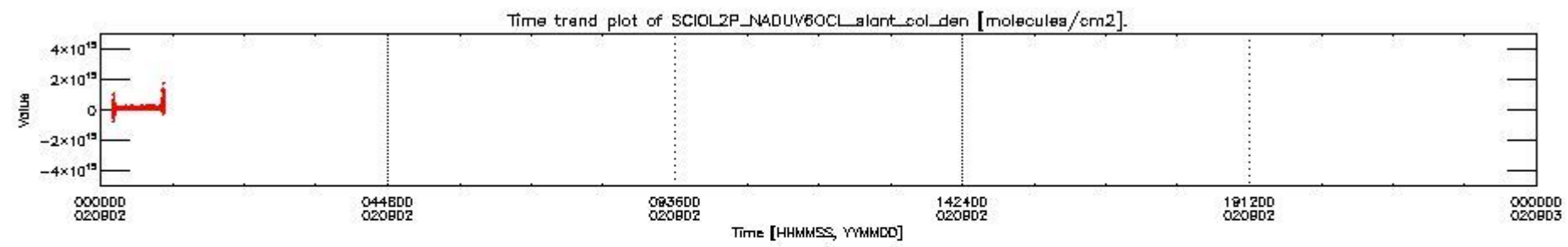


SCIOL2P\_NADUV7S02\_amf\_cl for 02SEP2002 00:00:00 to 03SEP2002 00:00:00

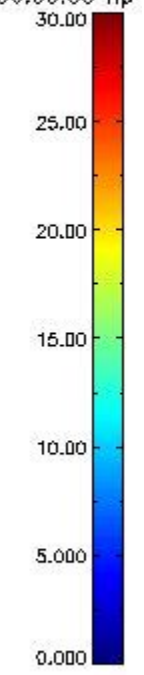
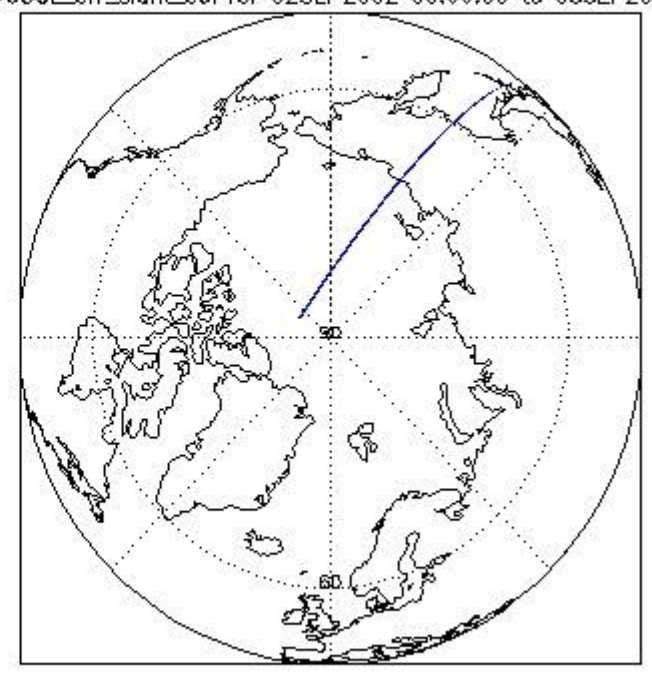
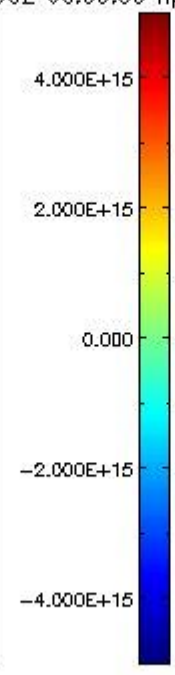
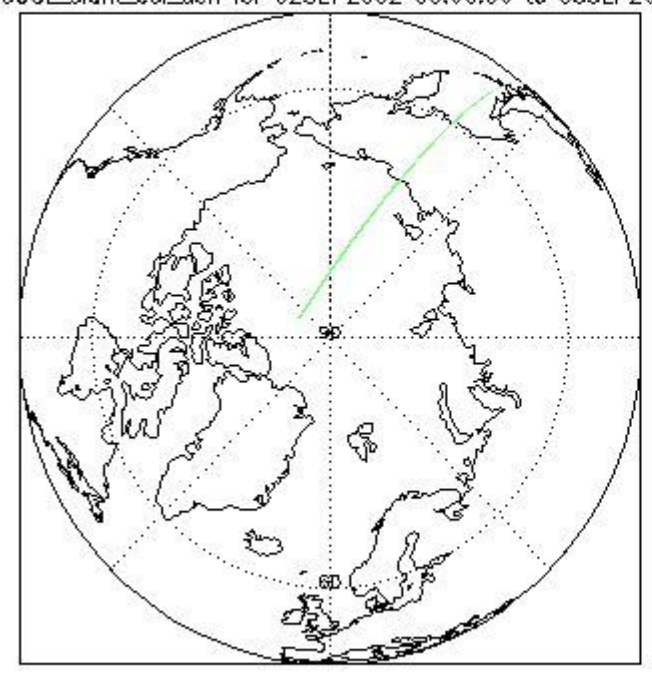


2.2.2.6 OCIO (UV6)

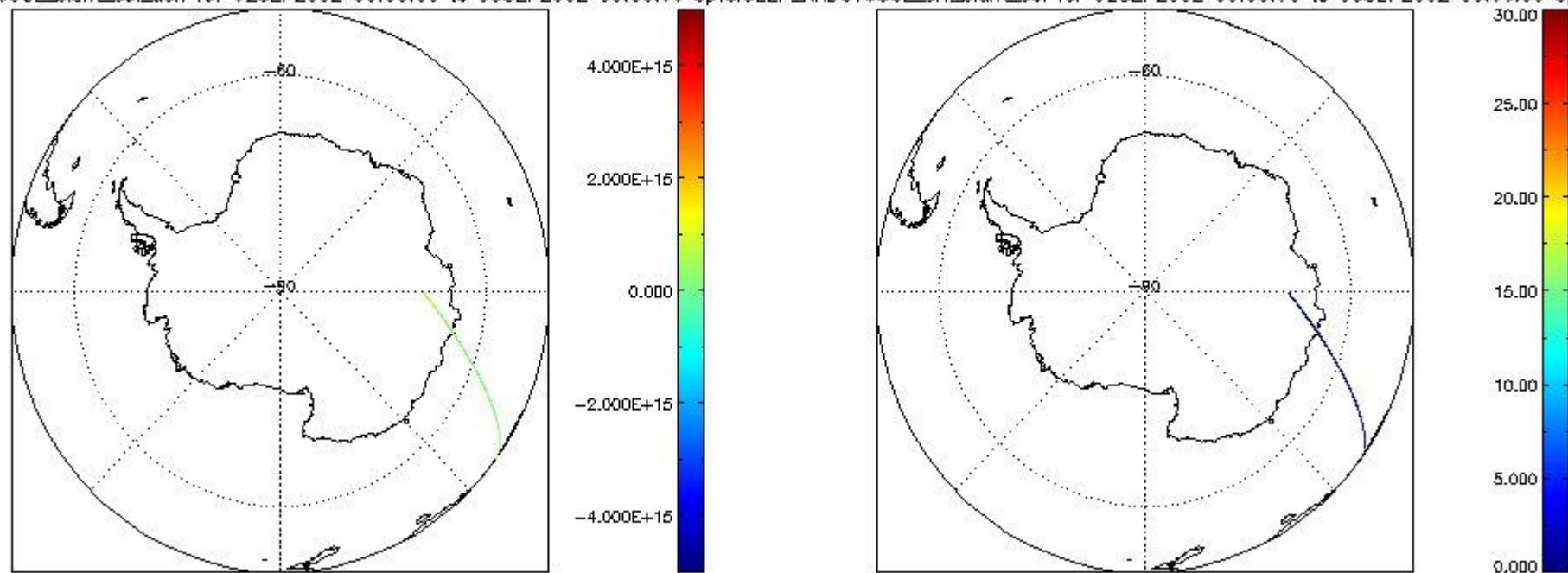




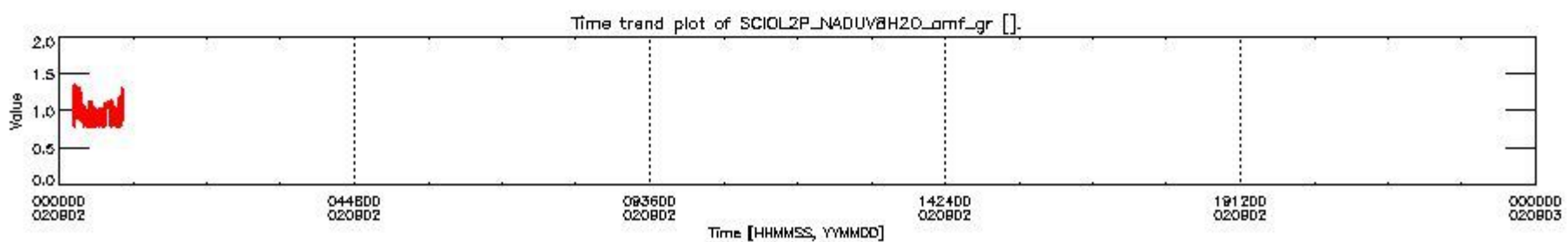
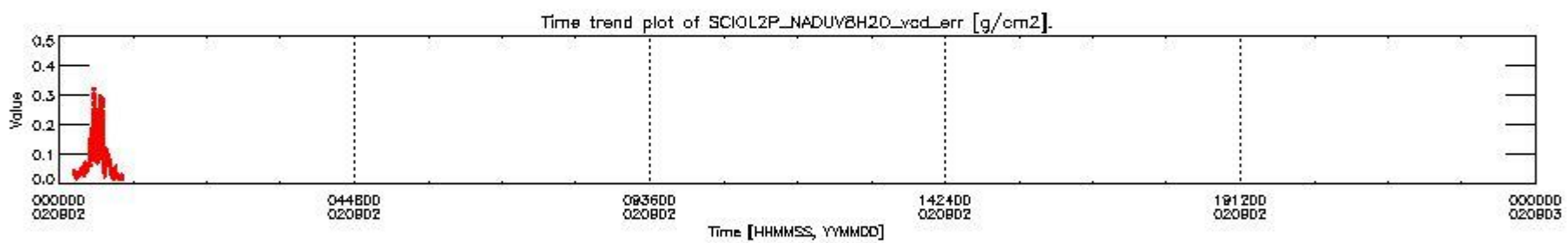
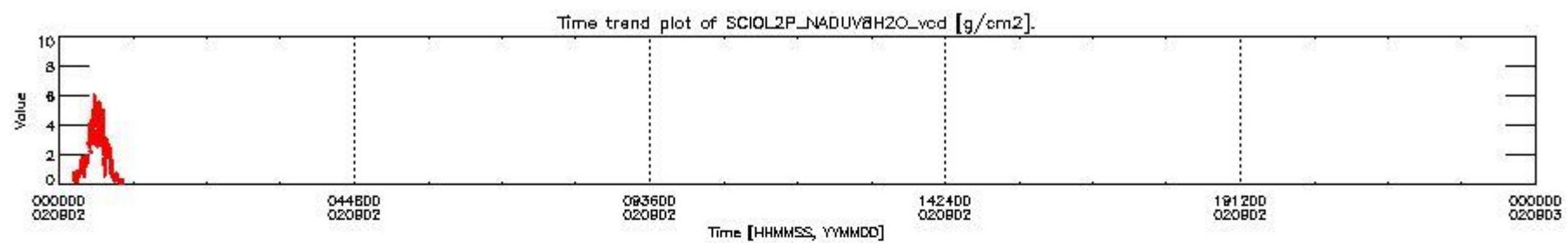
CIOL2P\_NADUV60CL\_slant\_col\_den for 02SEP2002 00:00:00 to 03SEP2002 00:00:00 np; CIOL2P\_NADUV60CL\_err\_slant\_col for 02SEP2002 00:00:00 to 03SEP2002 00:00:00 np



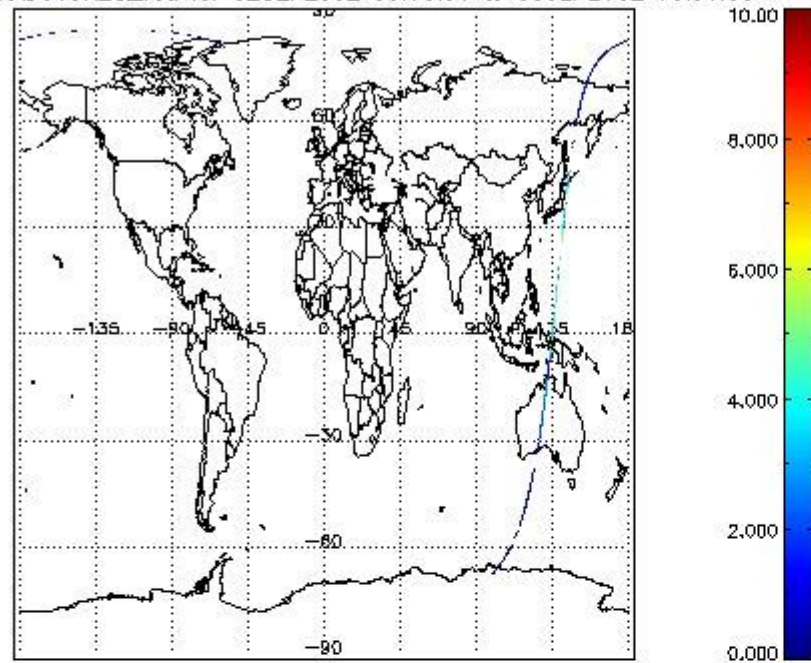
CIOL2P\_NADUV60CL\_slant\_col\_den for 02SEP2002 00:00:00 to 03SEP2002 00:00:00 sp CIOL2P\_NADUV60CL\_err\_slant\_col for 02SEP2002 00:00:00 to 03SEP2002 00:00:00 sp



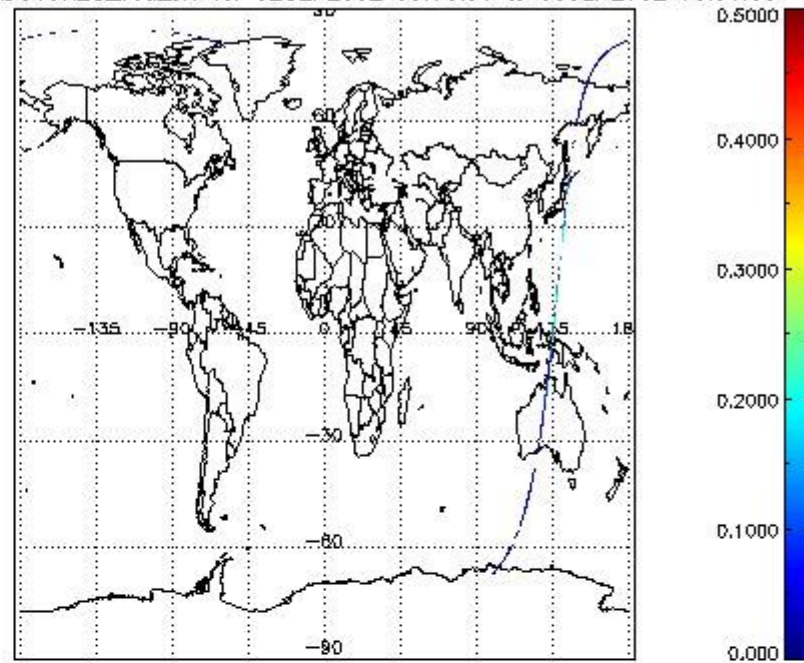
### 2.2.2.7 H2O (UV8)



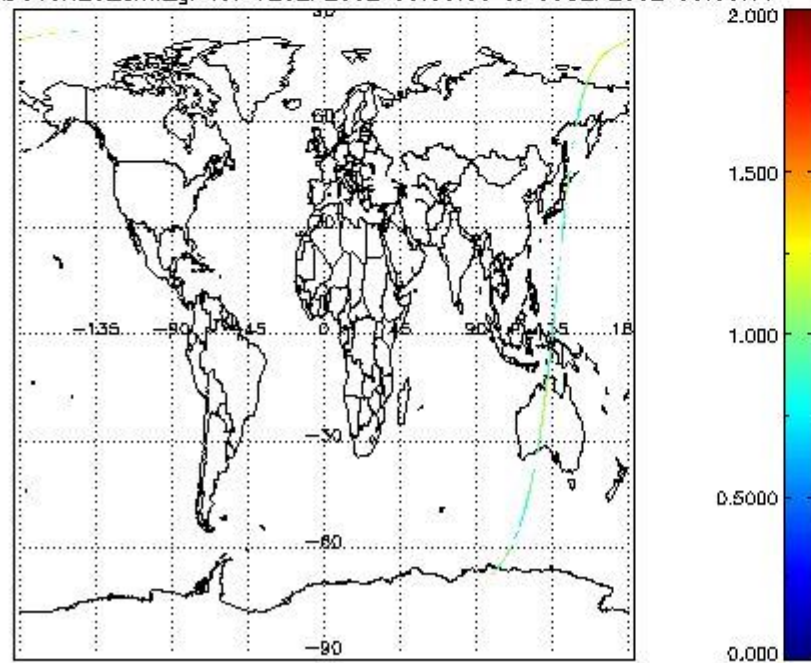
SCIOL2P\_NADUV8H2O\_vcd for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



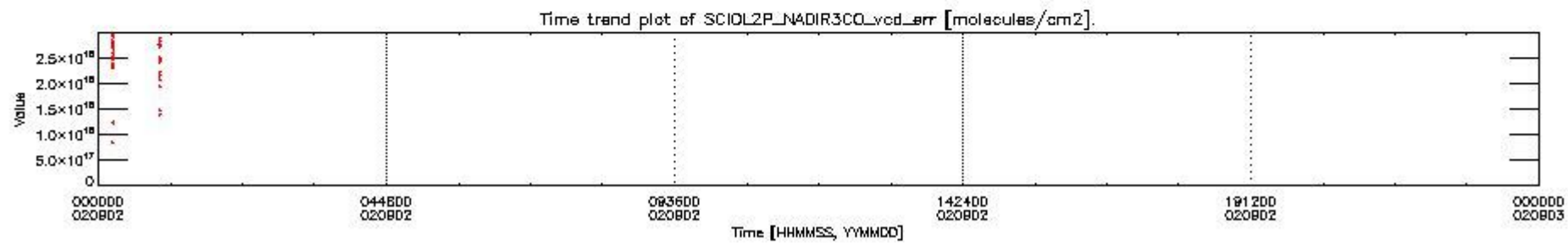
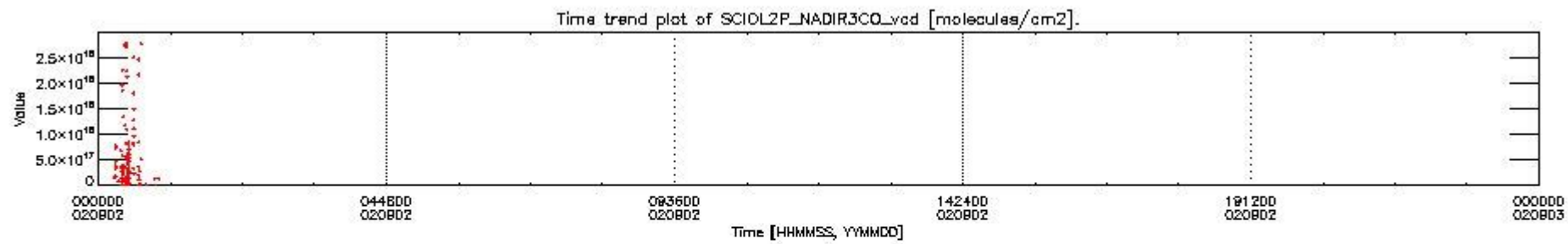
SCIOL2P\_NADUV8H2O\_vcd\_err for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



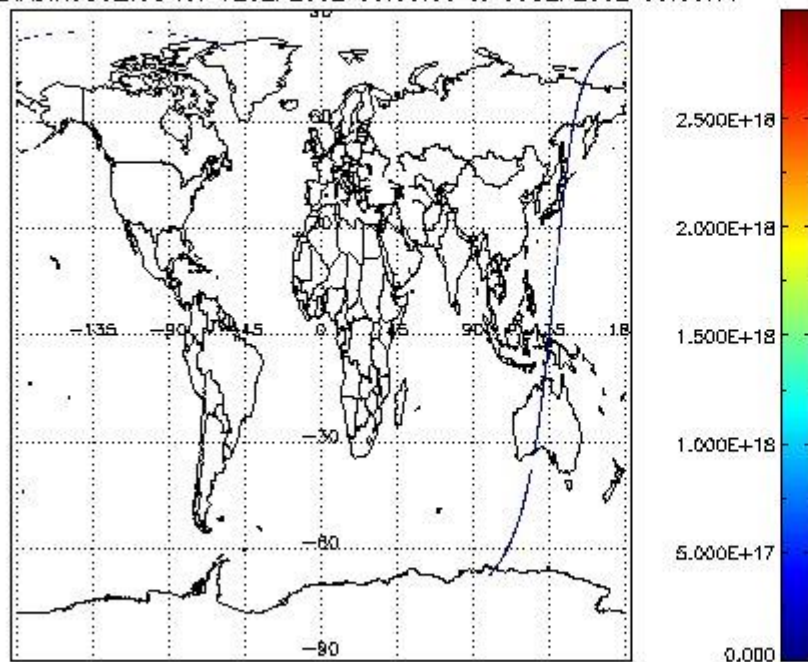
SCIOL2P\_NADUV8H2O\_arnf\_gr for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



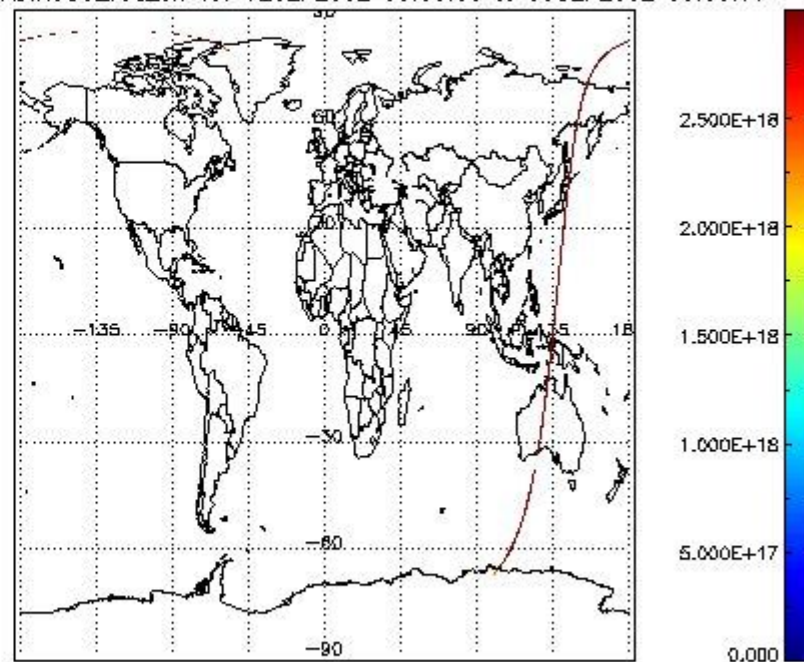




SCIDL2P\_NADIR3CO\_vcd for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



SCIDL2P\_NADIR3CO\_vcd\_err for 02SEP2002 00:00:00 to 03SEP2002 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)

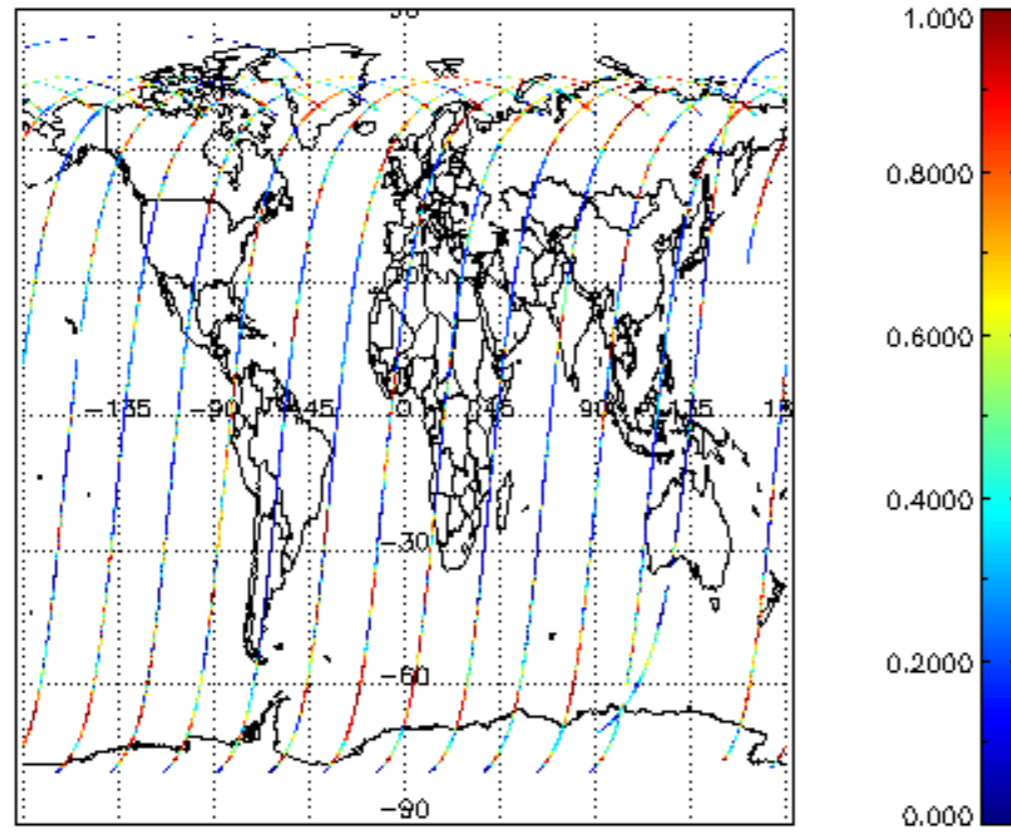
### 2.2.3.3 BrO (UV3)

No data available for BrO (UV3)

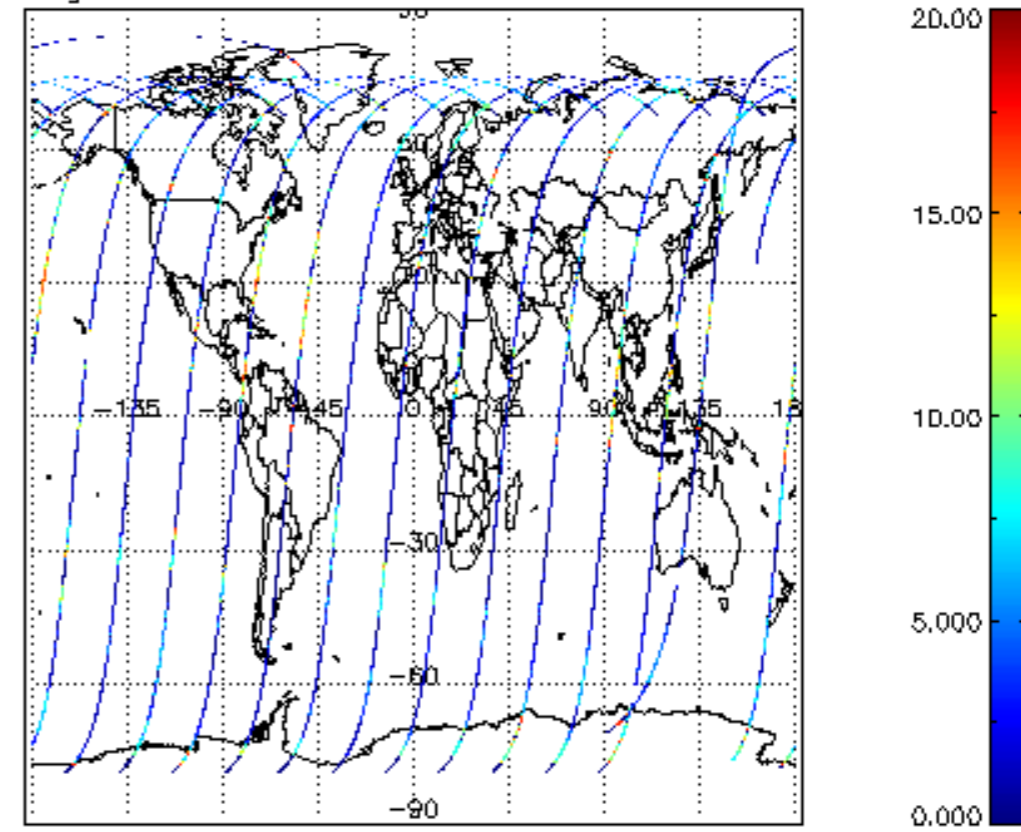
## 2.3 ADF monitoring

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_132824_20020901_165910_20020903_165910

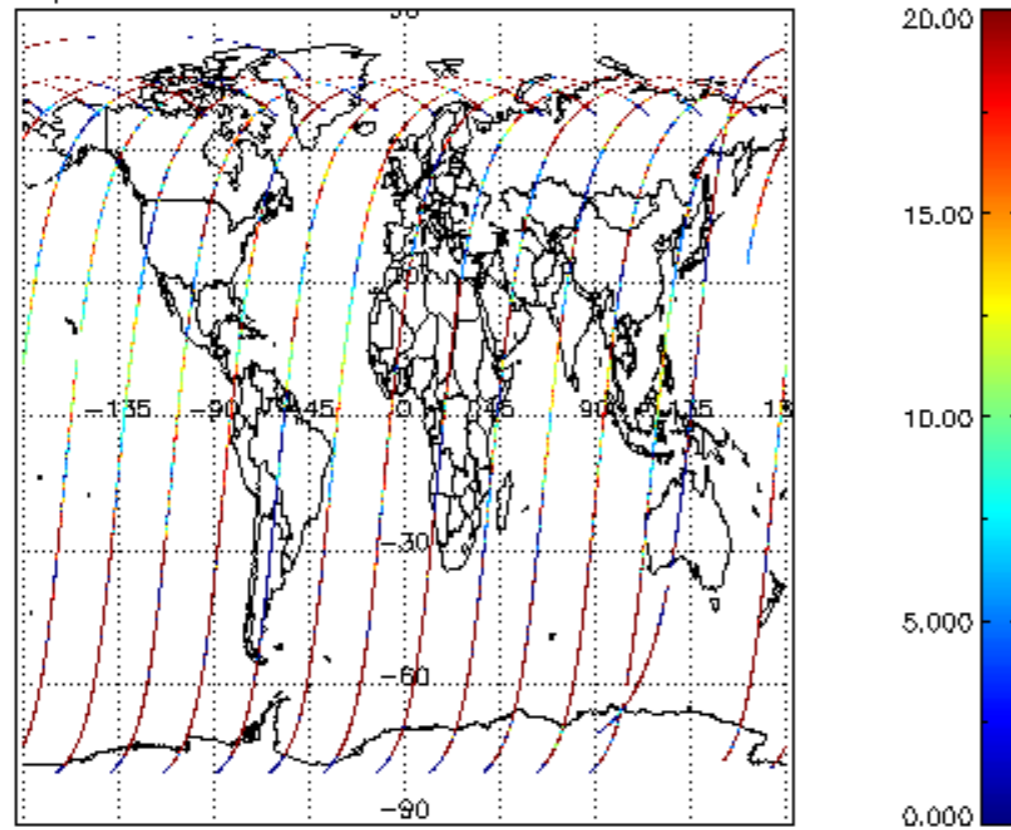
cl\_frac for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



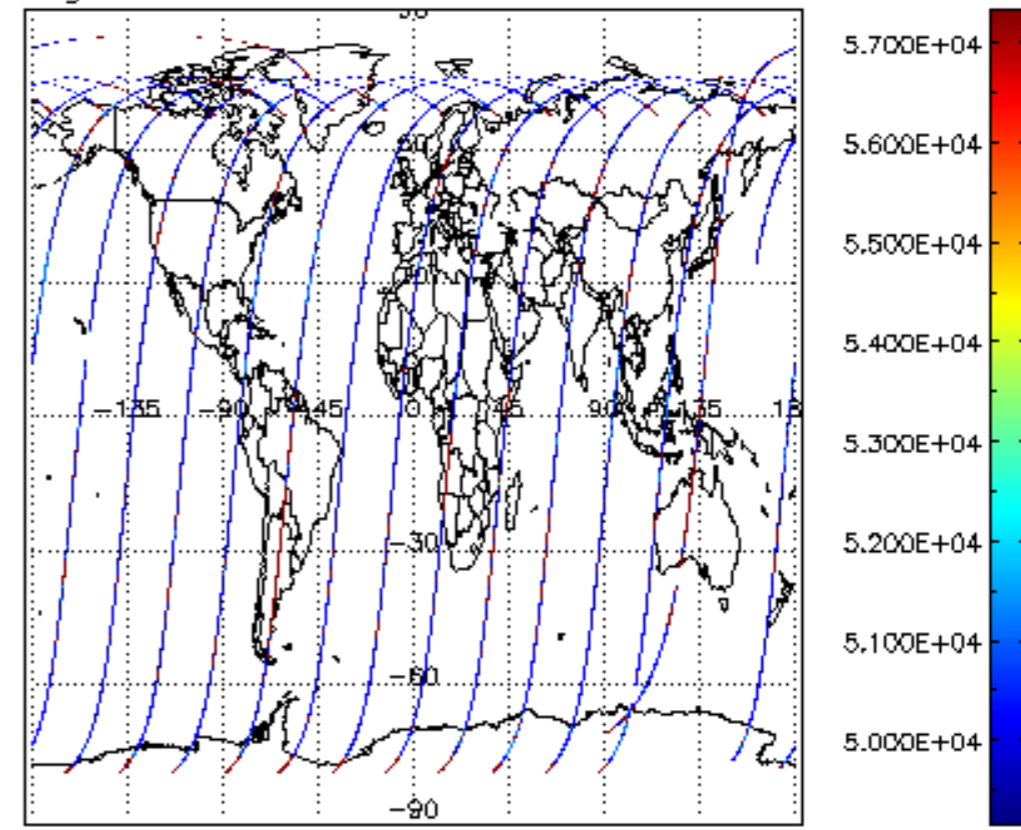
cl\_top\_height for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



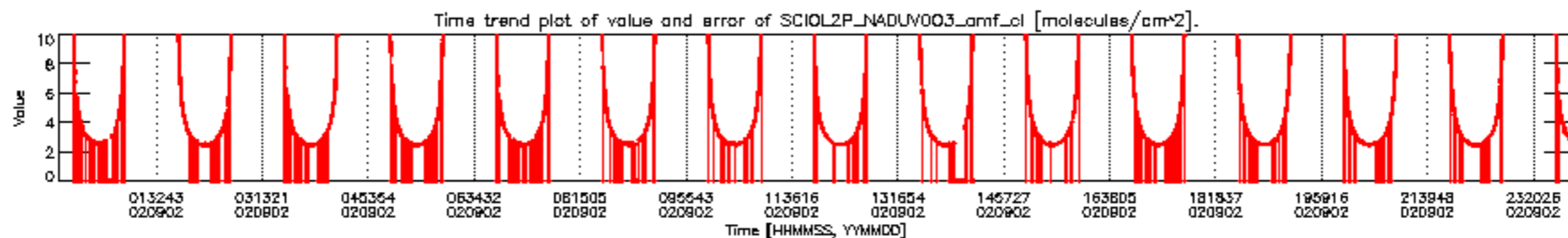
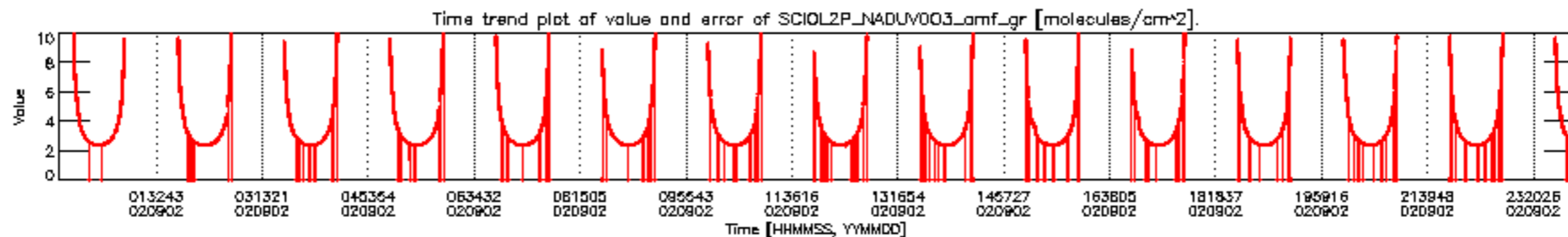
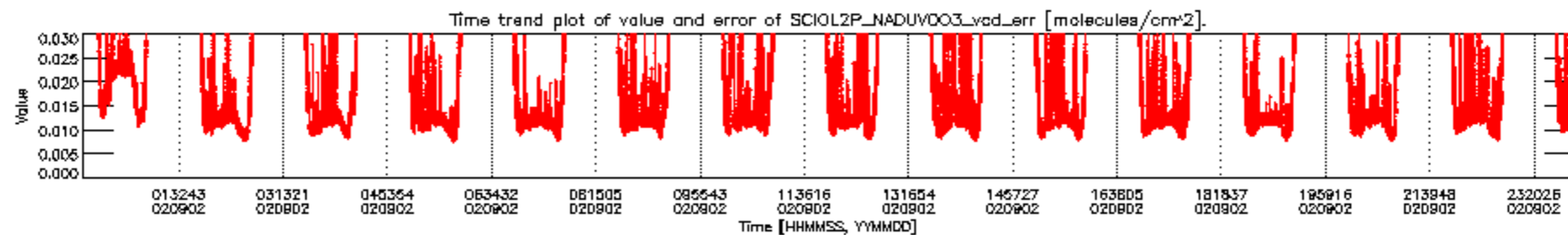
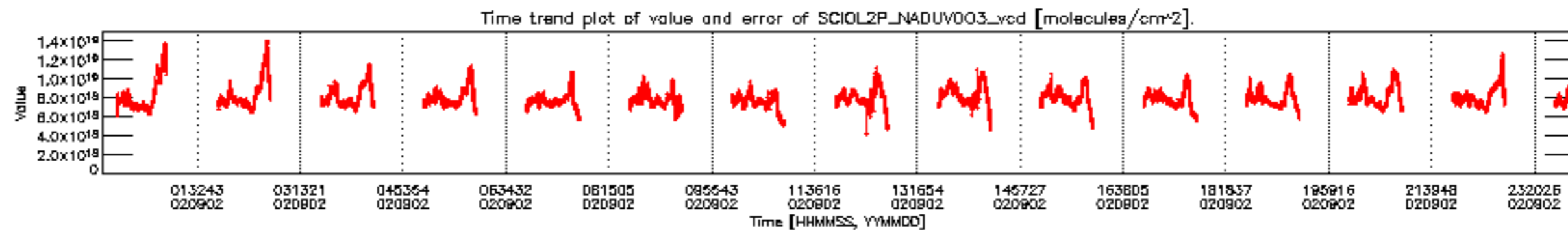
cl\_opt\_depth for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



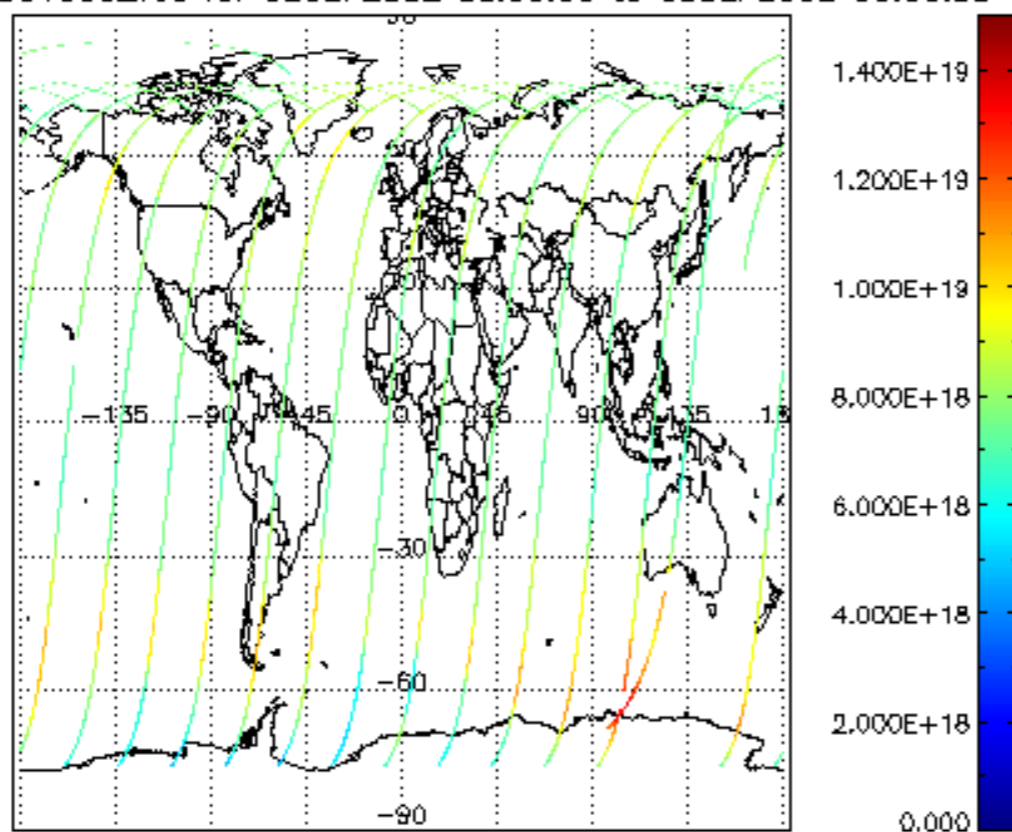
cloud\_flags for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



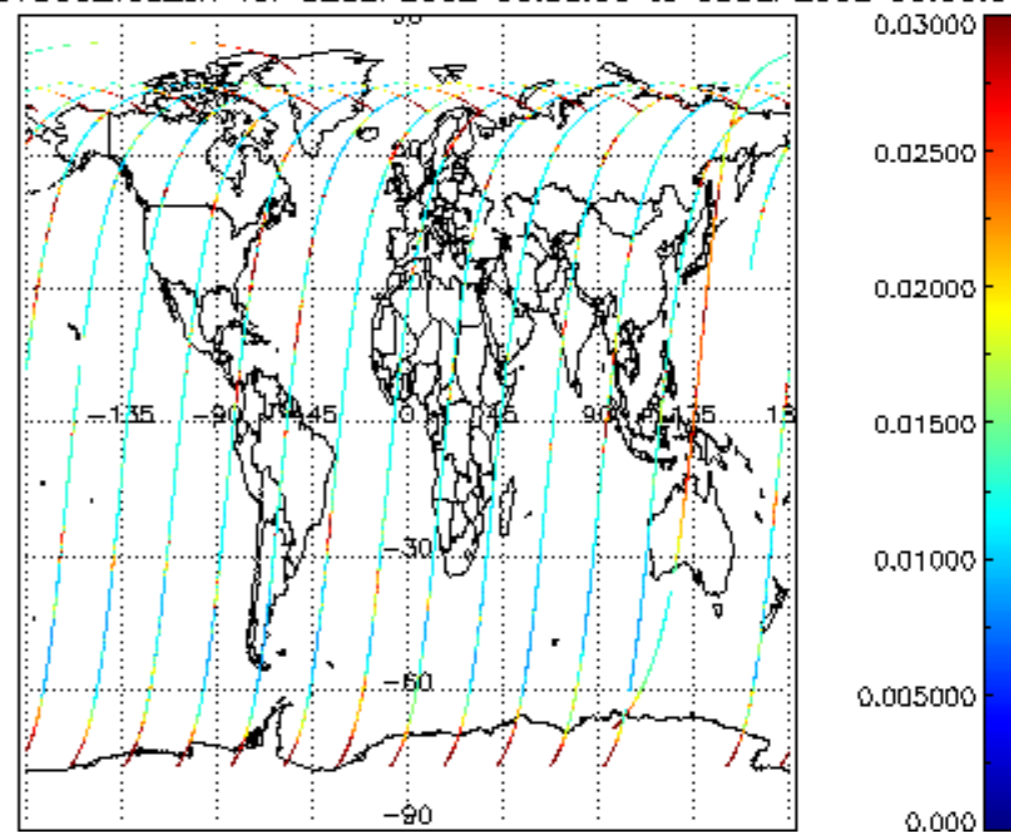




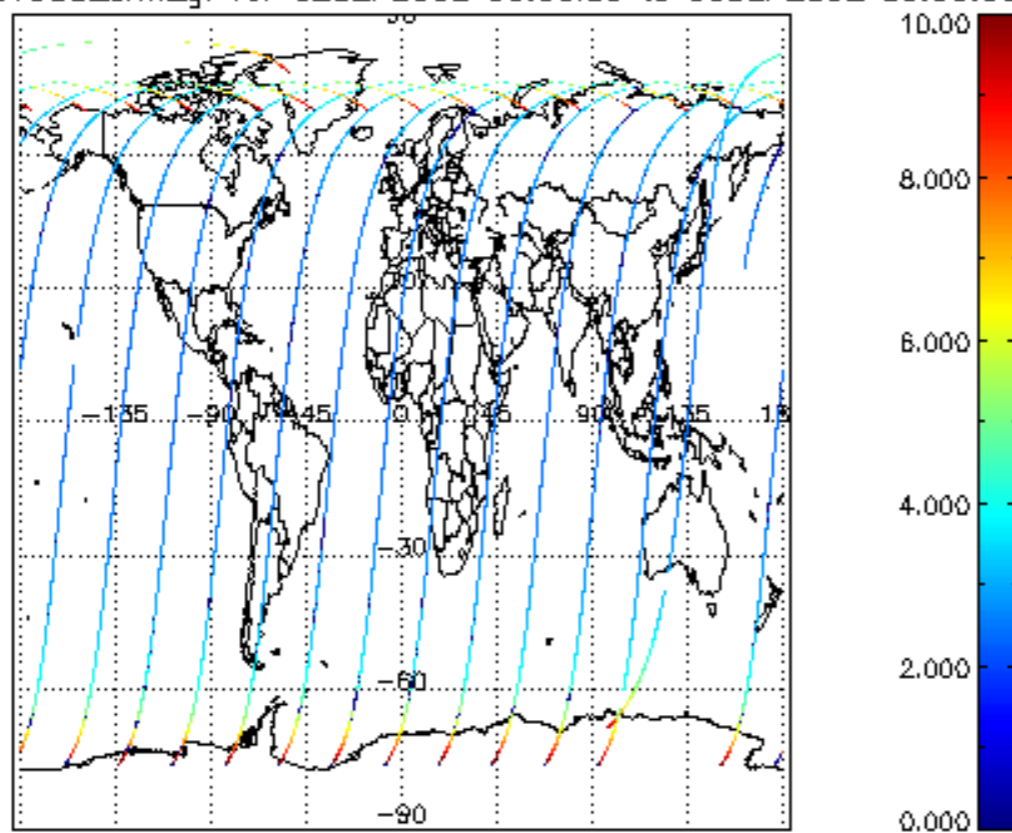
SCIOL2P\_NADUV003\_vcd for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



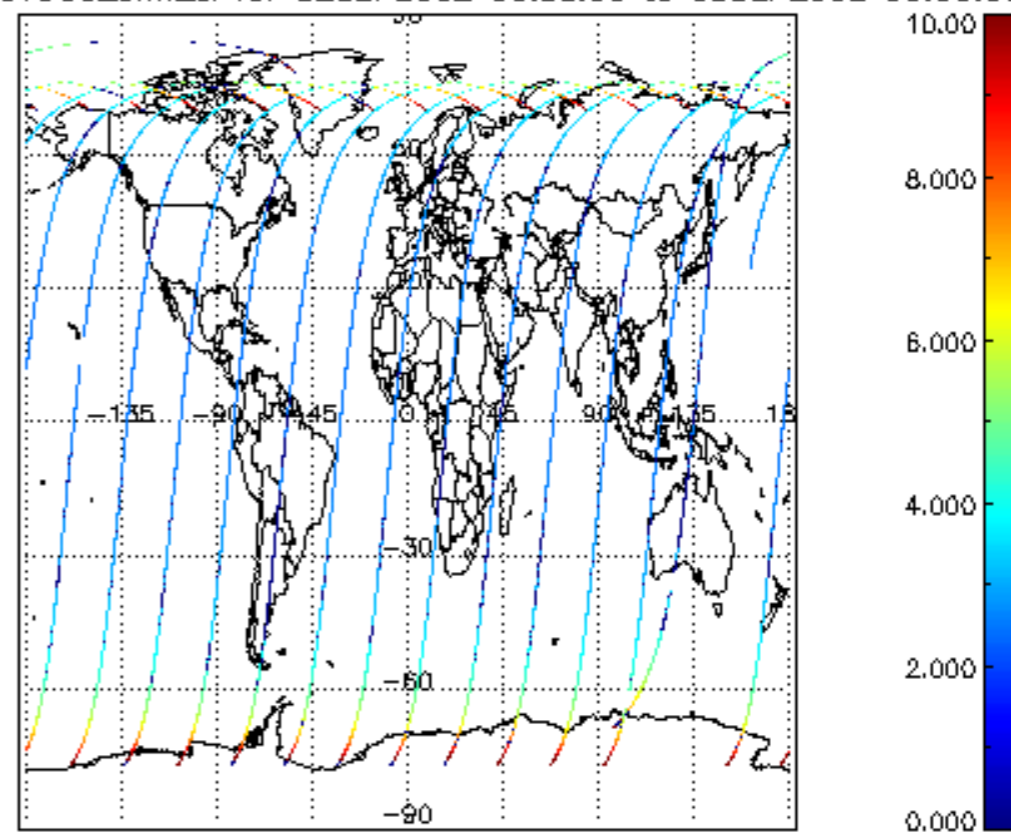
SCIOL2P\_NADUV003\_vcd\_err for 02SEP2002 00:00:00 to 03SEP2002 00:00:00

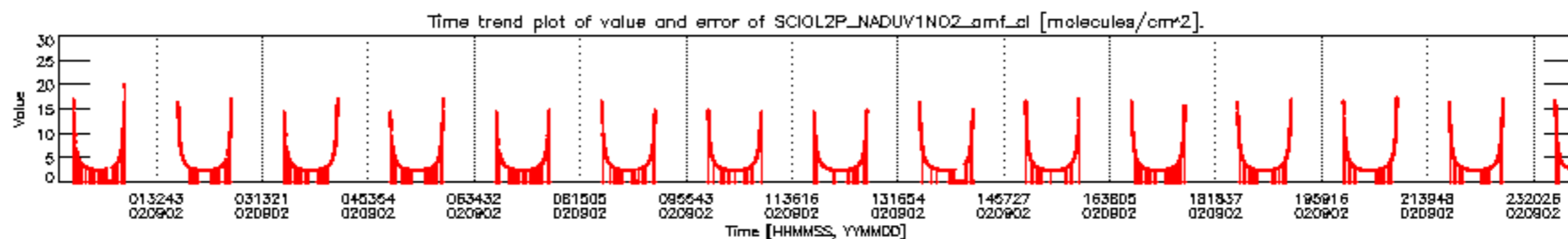
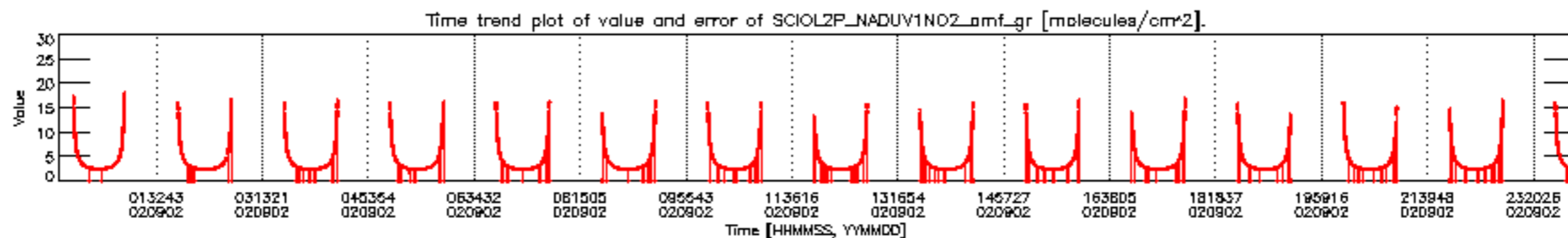
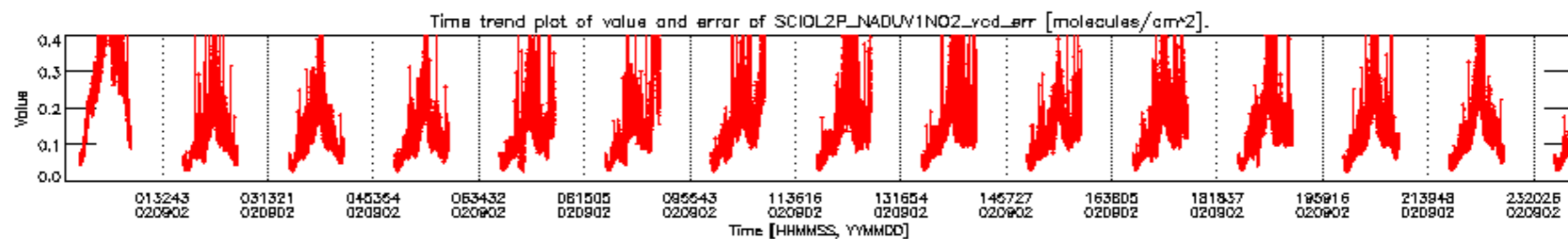
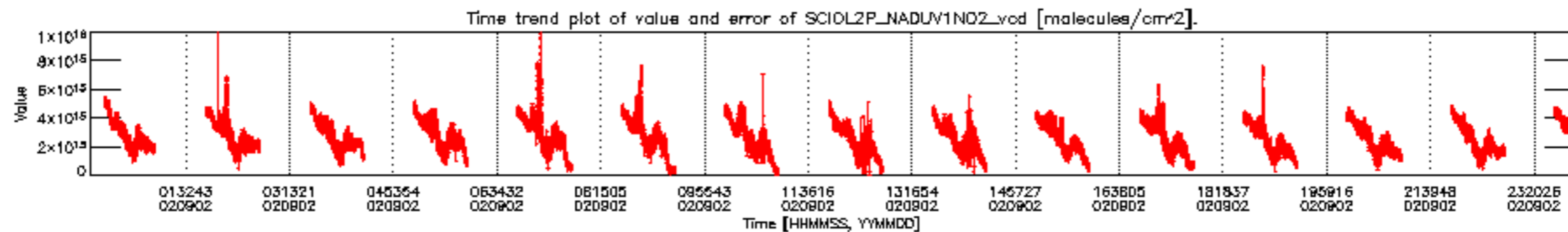


SCIOL2P\_NADUV003\_amf\_gr for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



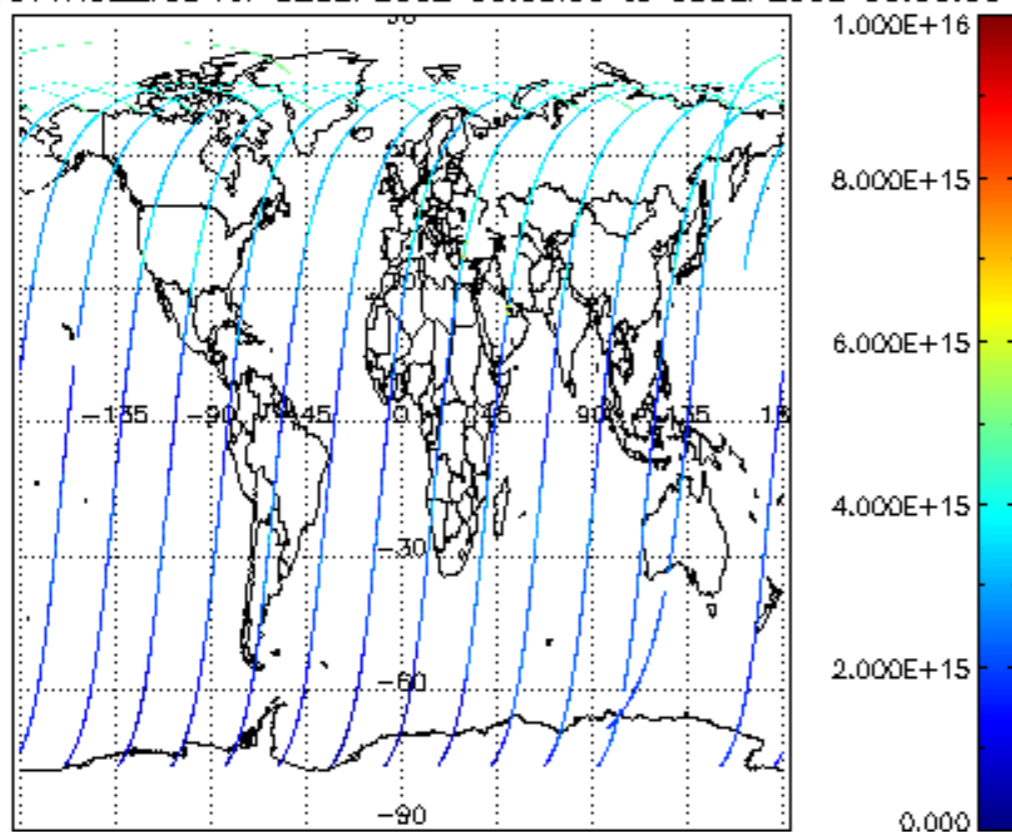
SCIOL2P\_NADUV003\_amf\_cl for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



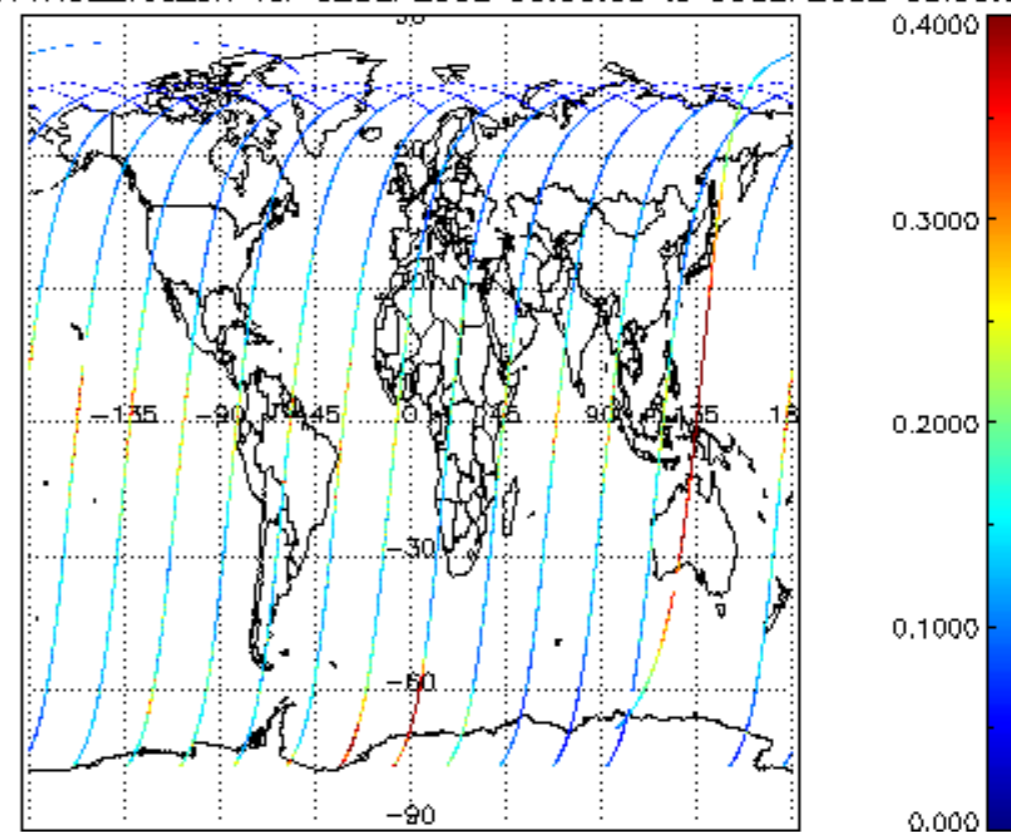




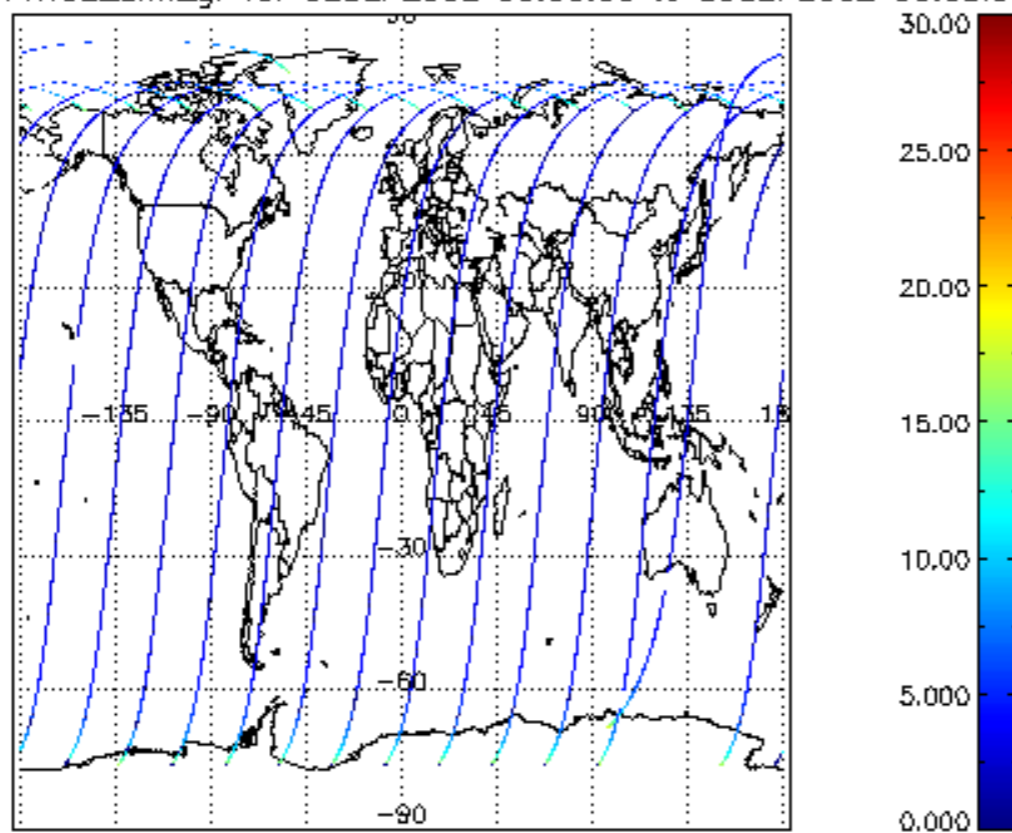
SCIOL2P\_NADUV1NO2\_vcd for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



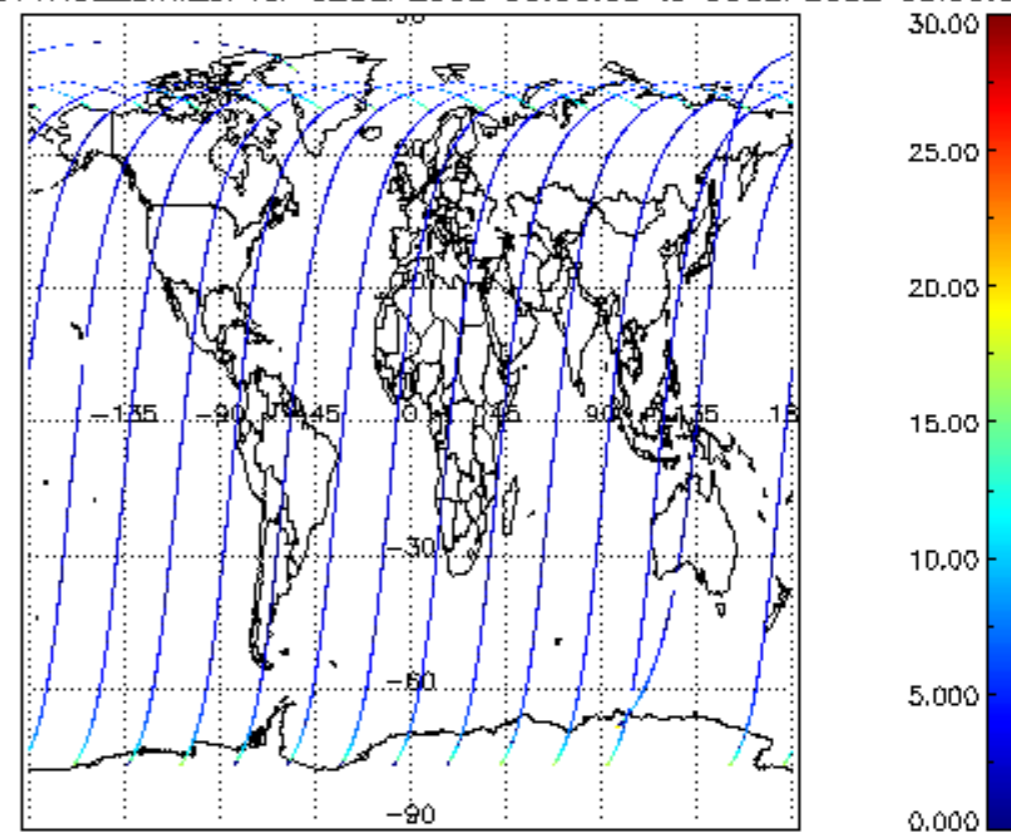
iCIOL2P\_NADUV1NO2\_vcd\_err for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



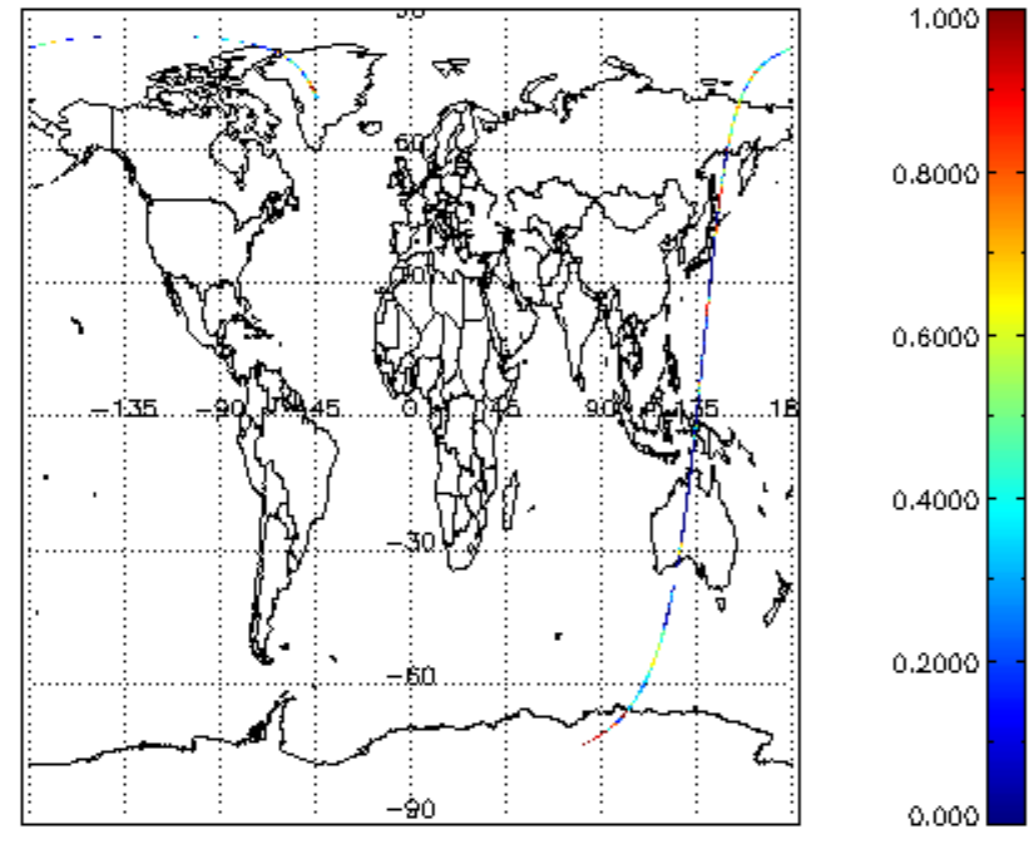
iCIOL2P\_NADUV1NO2\_amf\_gr for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



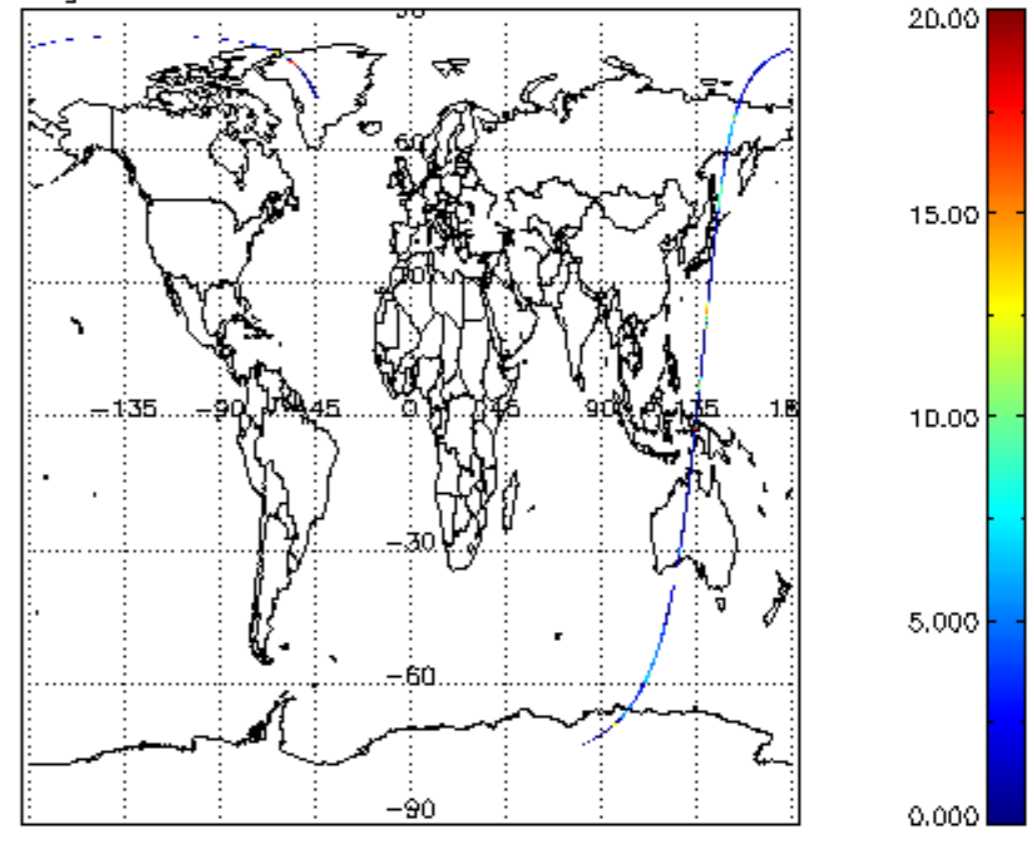
iCIOL2P\_NADUV1NO2\_amf\_cl for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



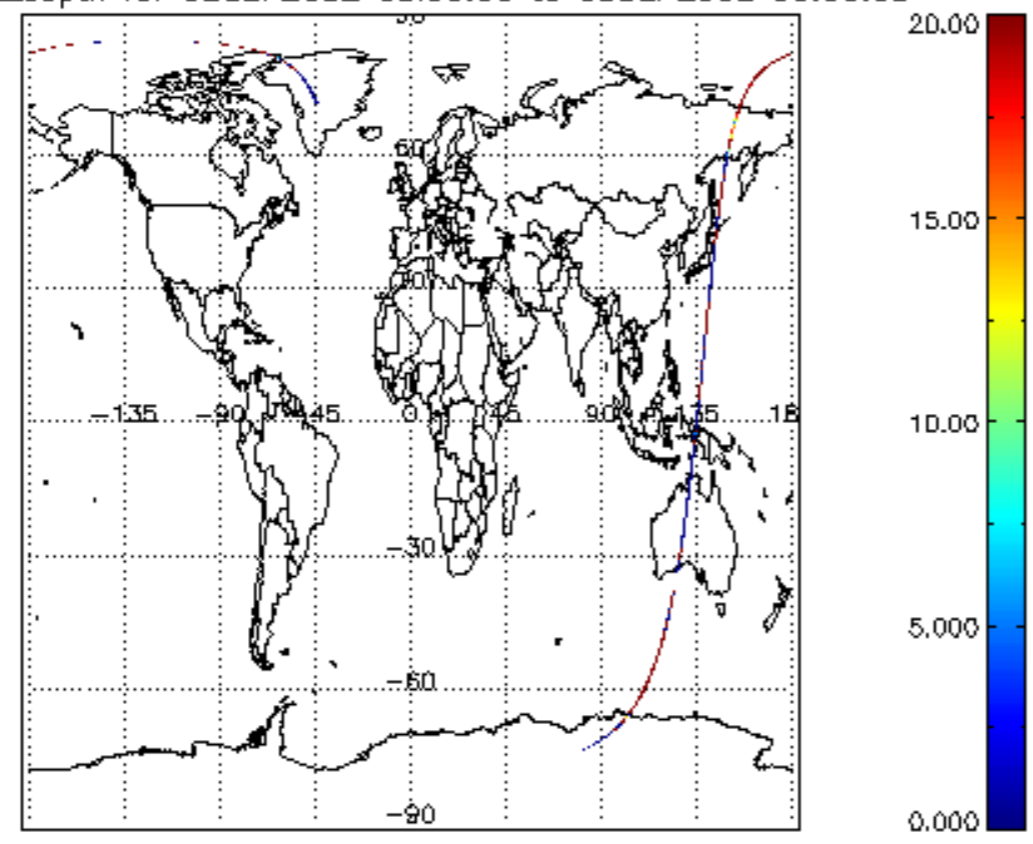
cl\_frac for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



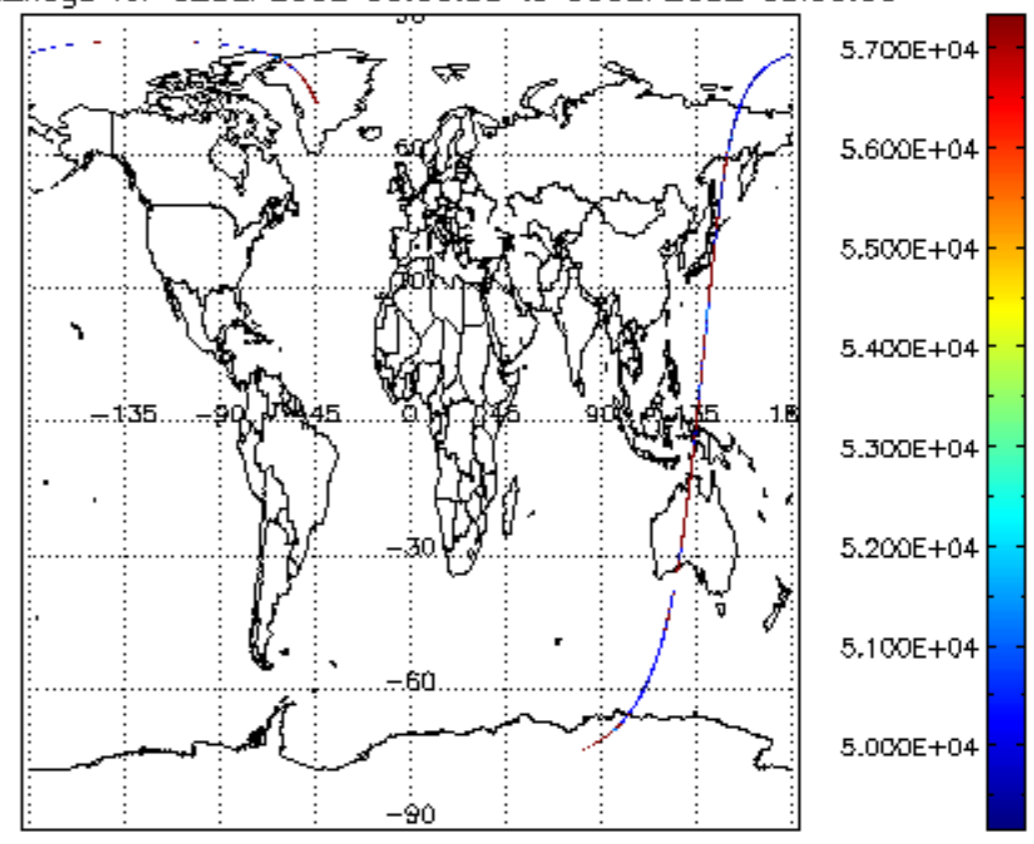
cl\_top\_height for 02SEP2002 00:00:00 to 03SEP2002 00:00:00

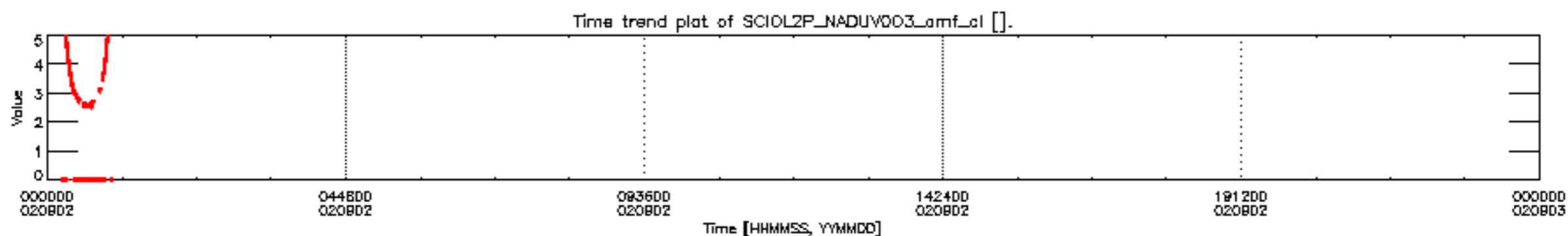
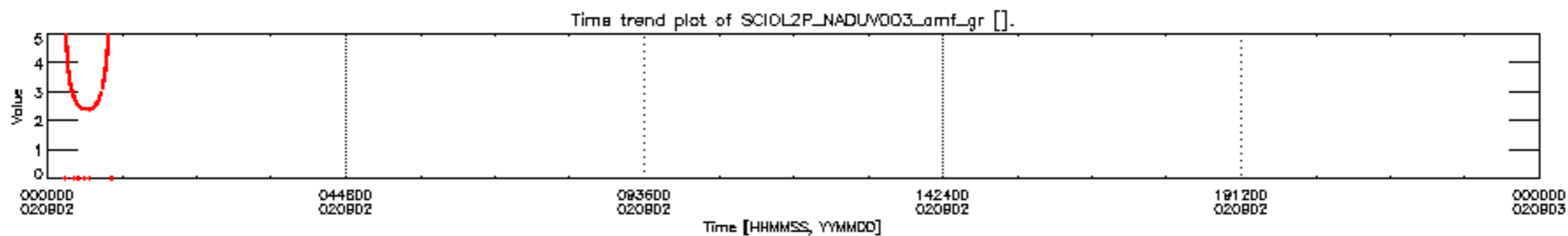
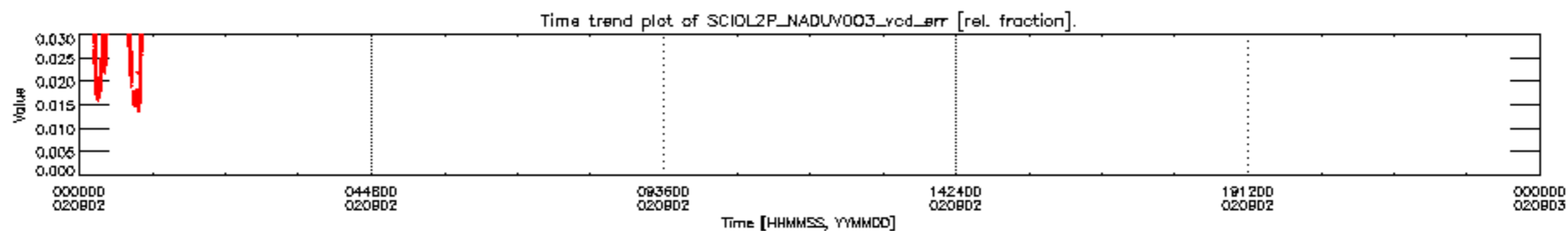
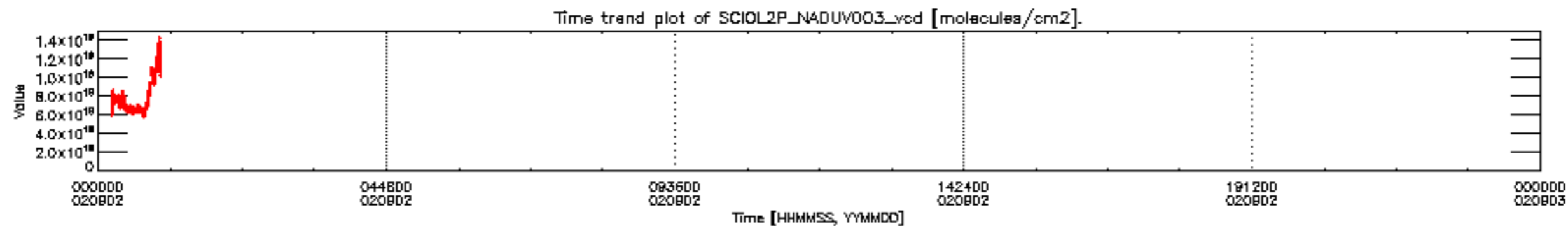


cl\_opt\_depth for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



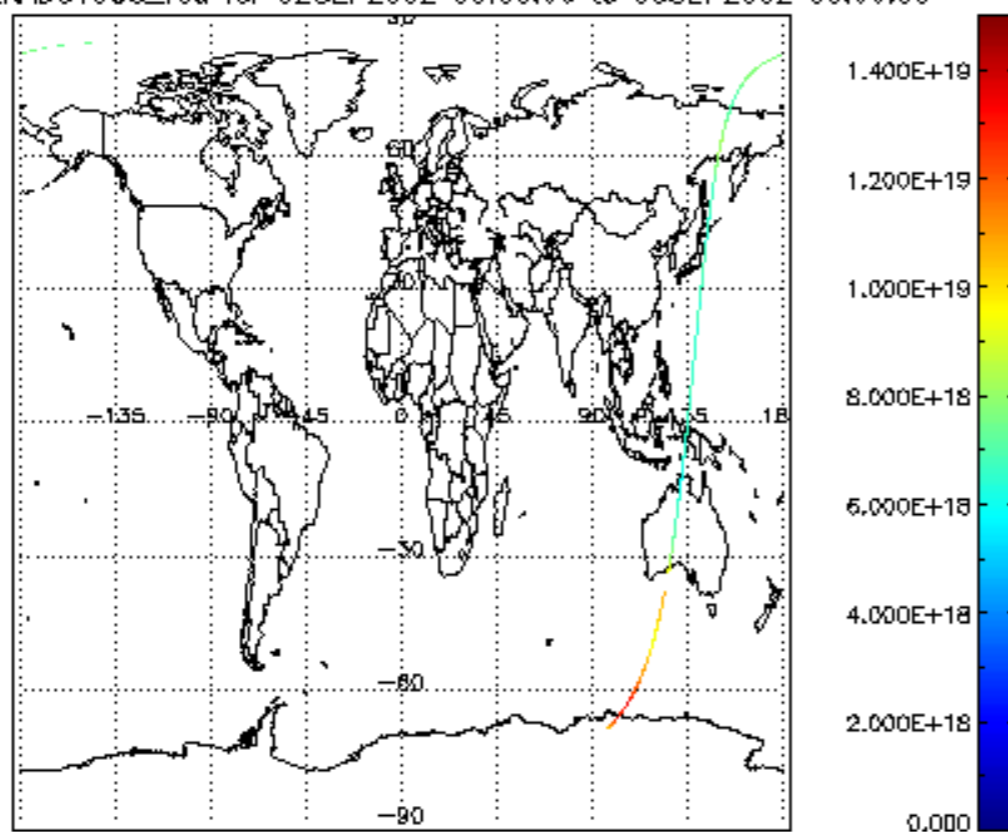
cloud\_flags for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



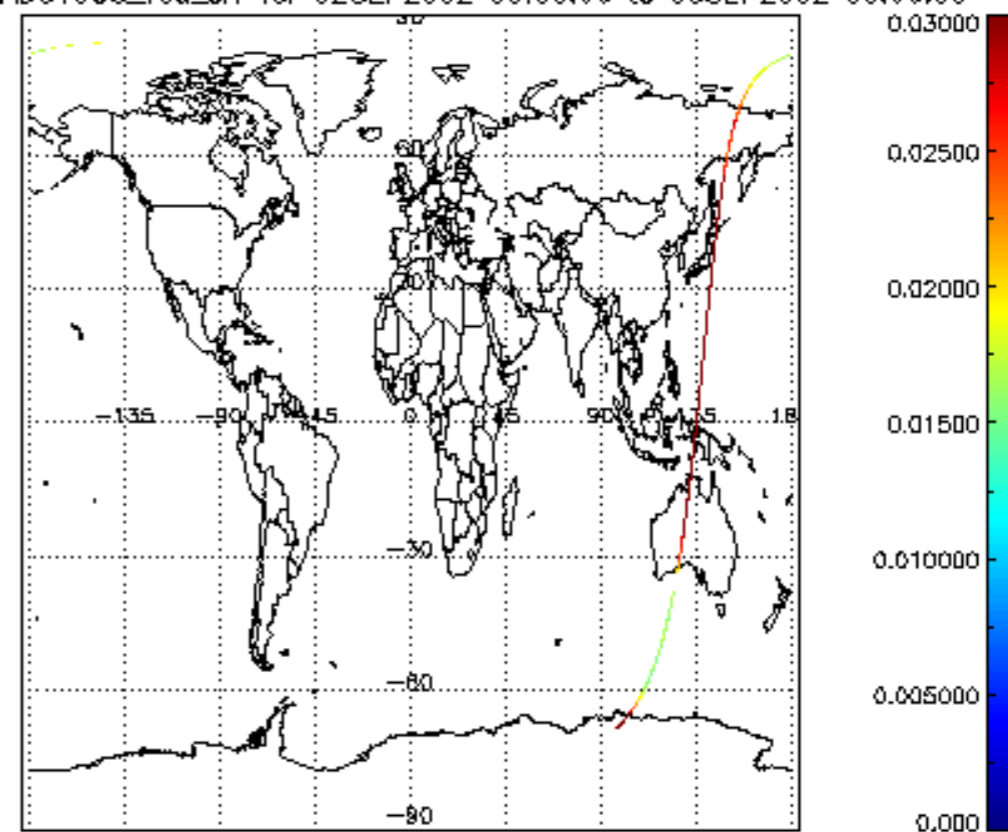




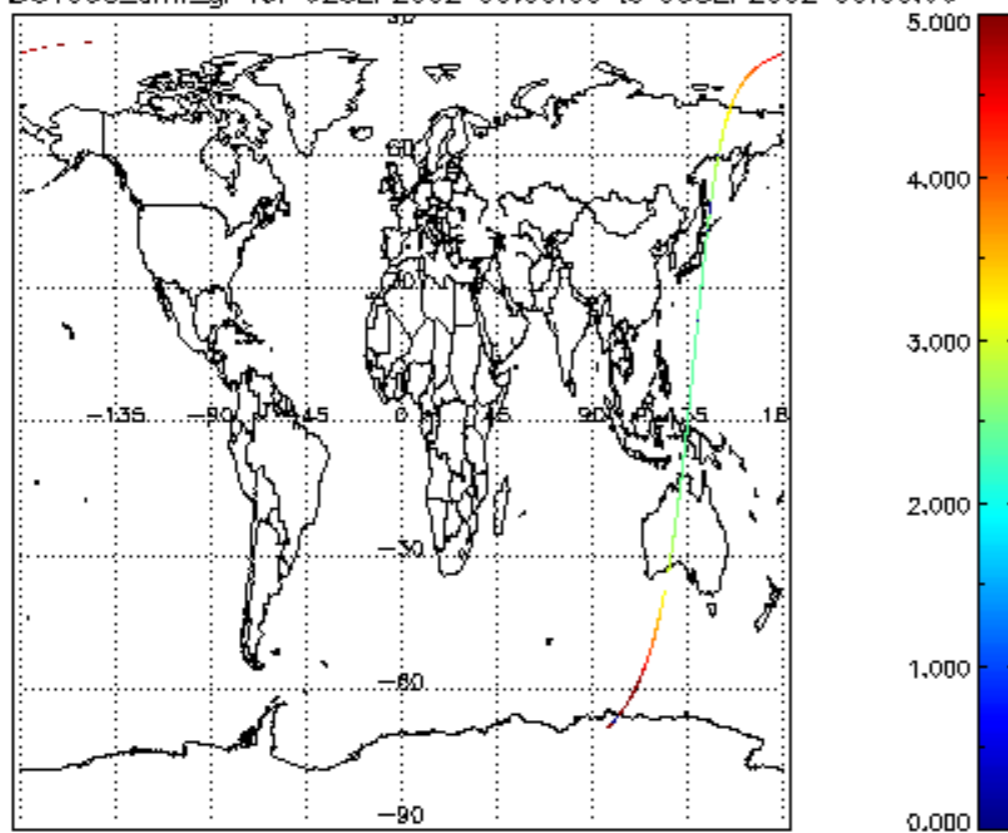
SCIOL2P\_NADUV003\_vcd for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



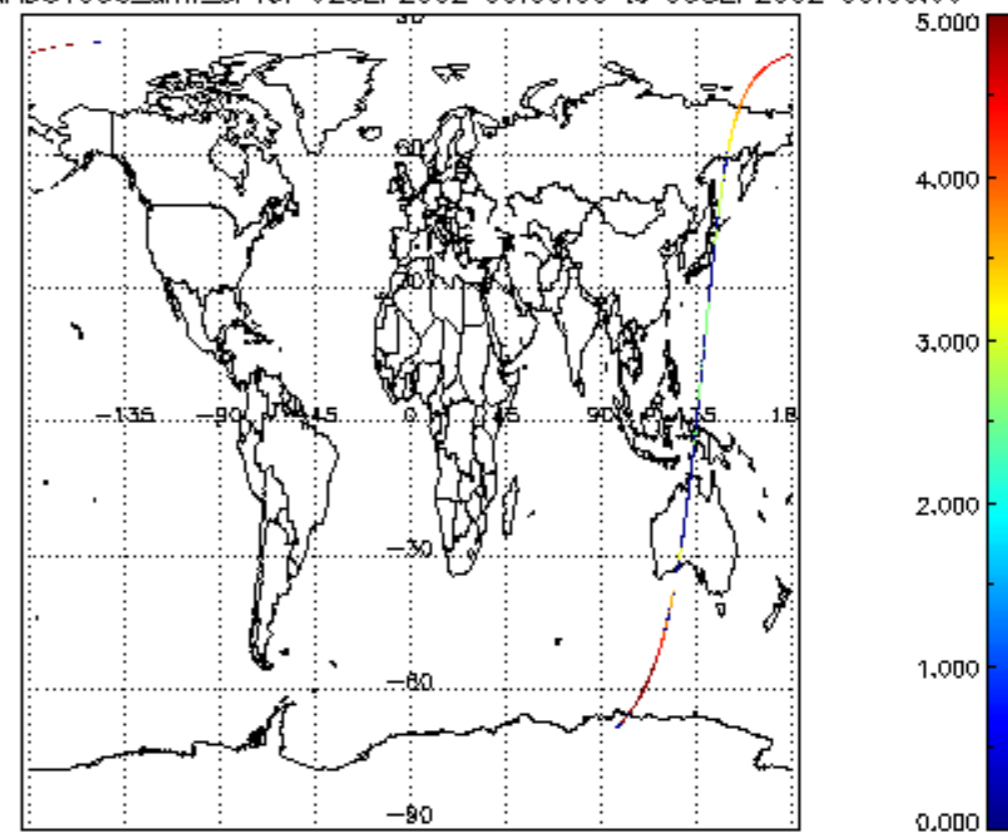
SCIOL2P\_NADUV003\_vcd\_err for 02SEP2002 00:00:00 to 03SEP2002 00:00:00

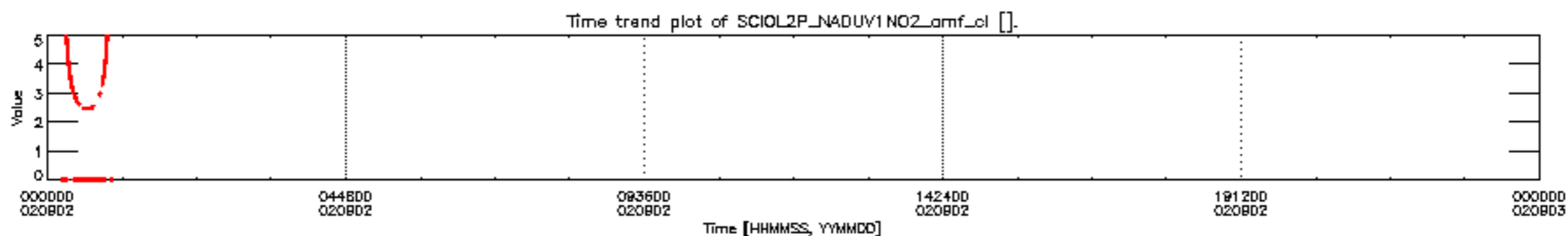
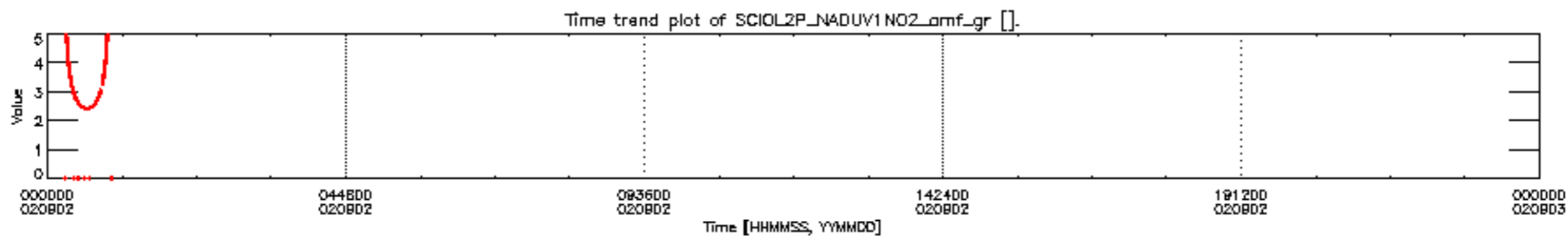
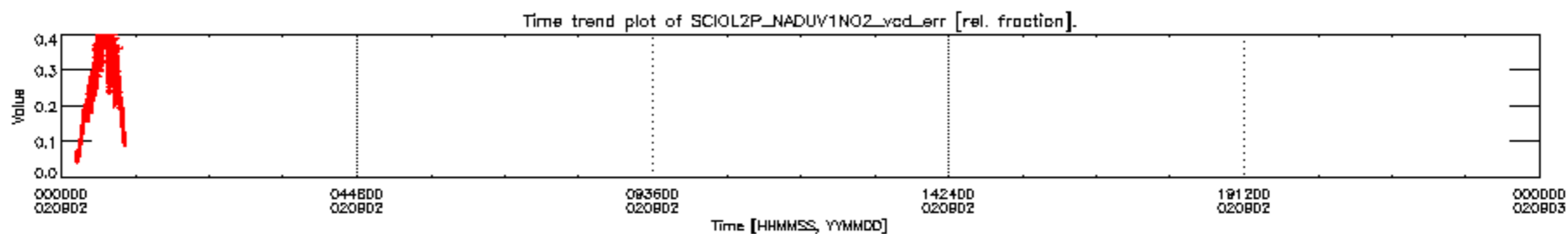
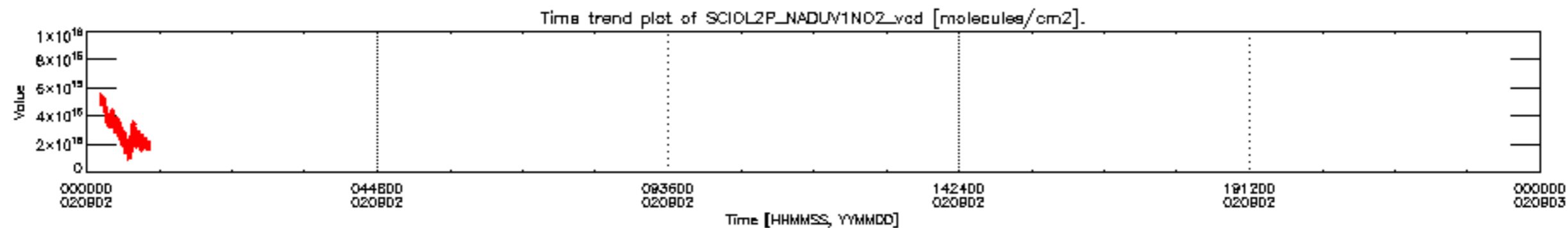


SCIOL2P\_NADUV003\_amf\_gr for 02SEP2002 00:00:00 to 03SEP2002 00:00:00

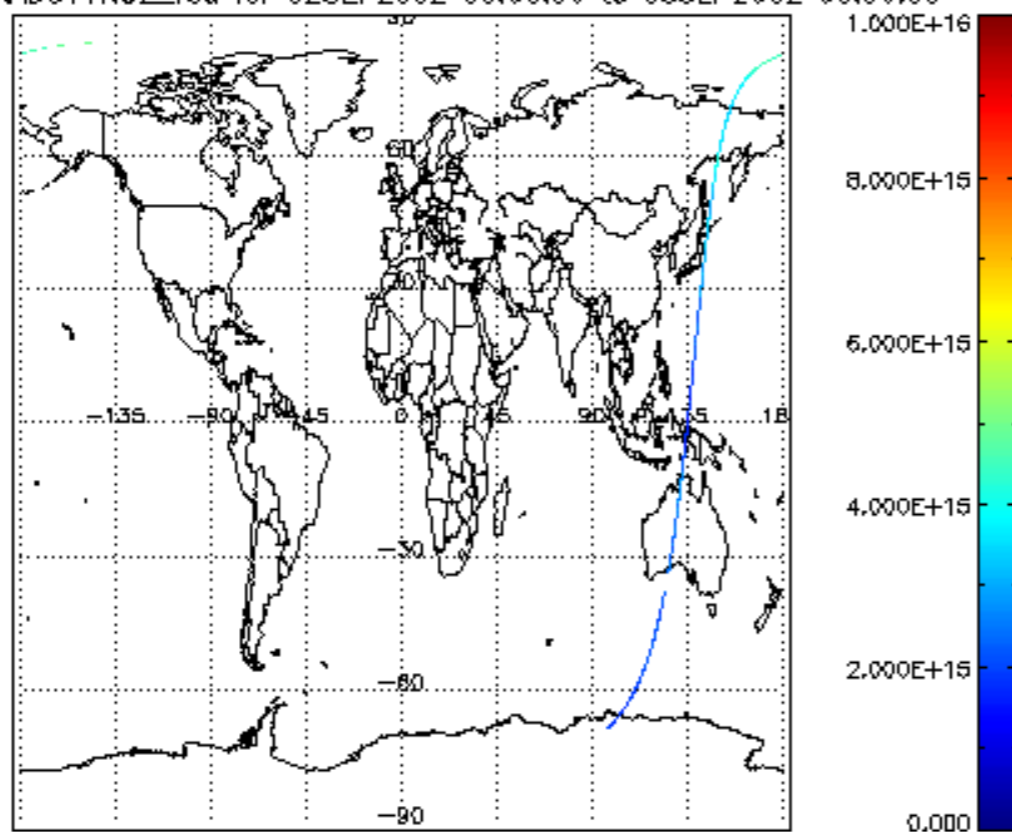


SCIOL2P\_NADUV003\_amf\_cl for 02SEP2002 00:00:00 to 03SEP2002 00:00:00

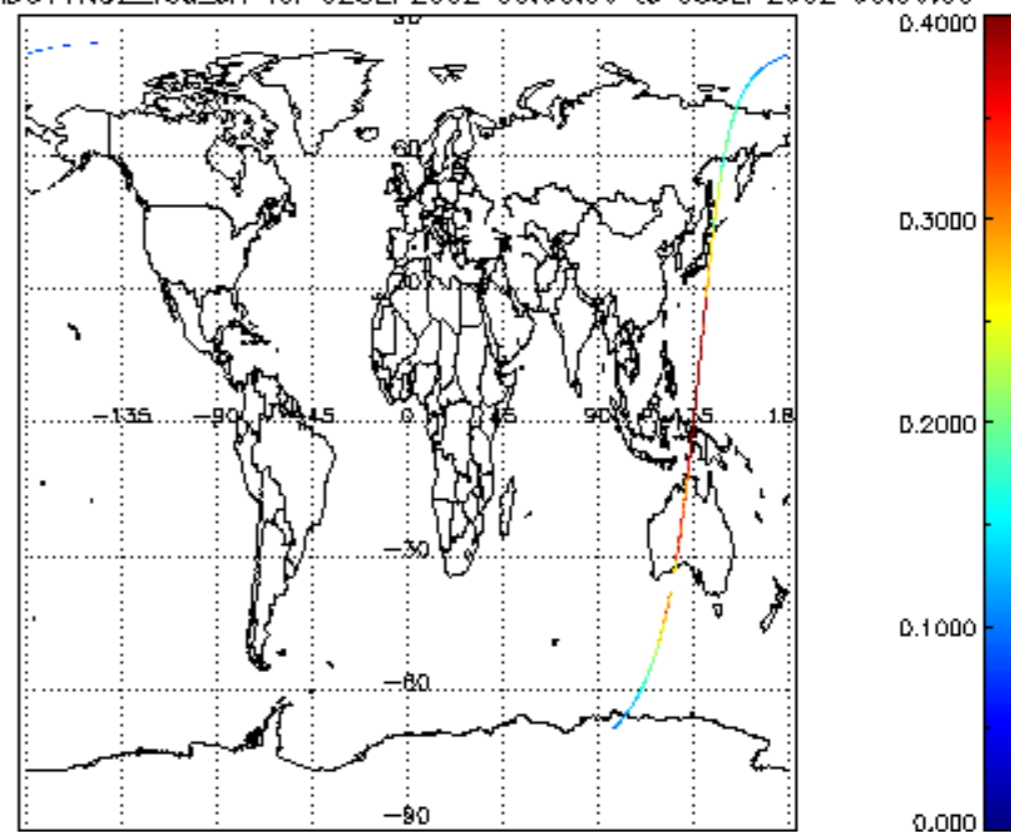




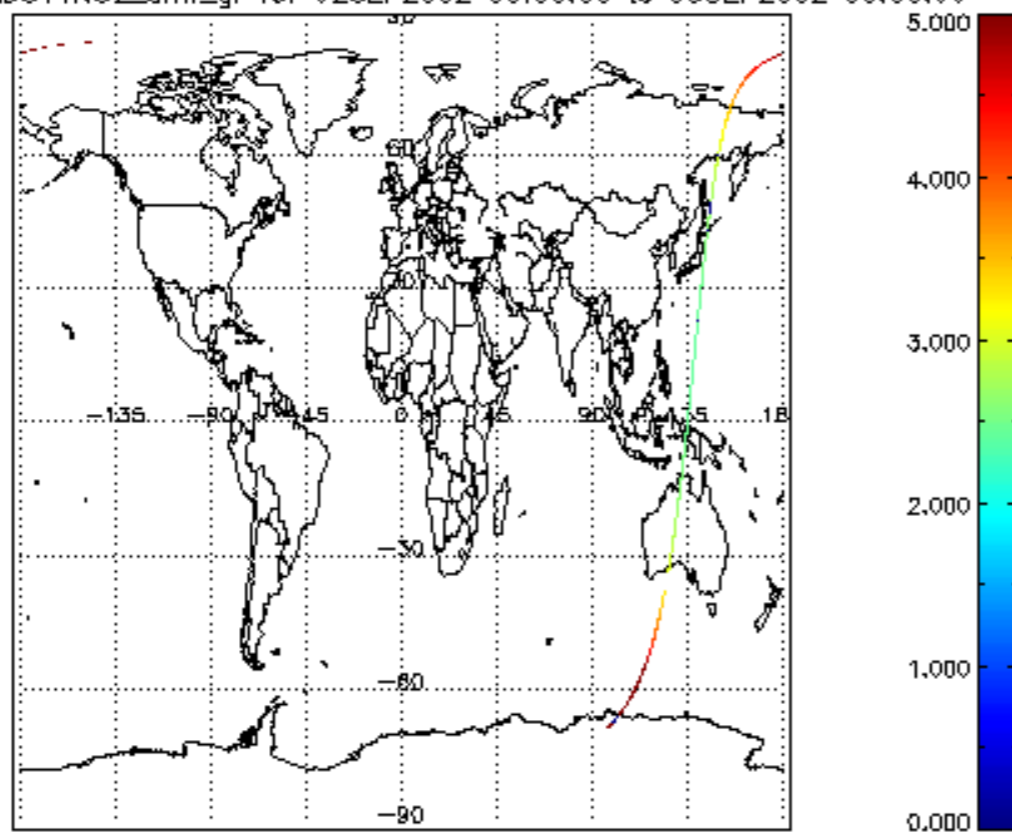
SCIOL2P\_NADUV1NO2\_vcd for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



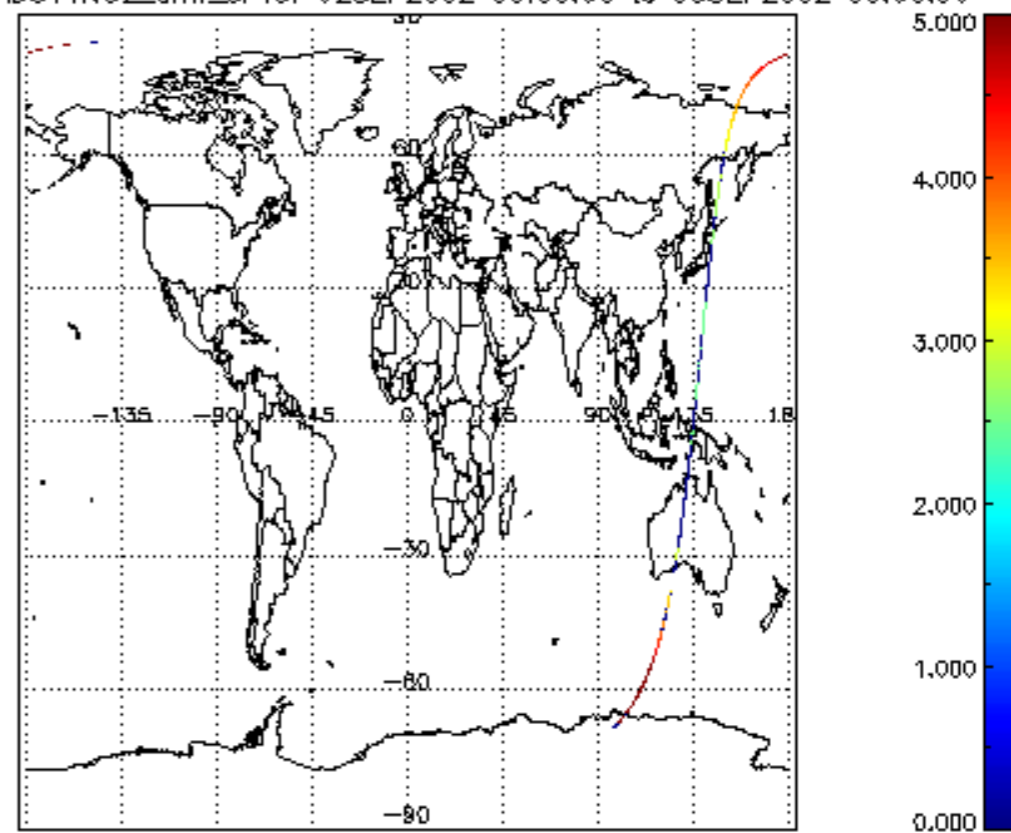
SCIOL2P\_NADUV1NO2\_vcd\_err for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



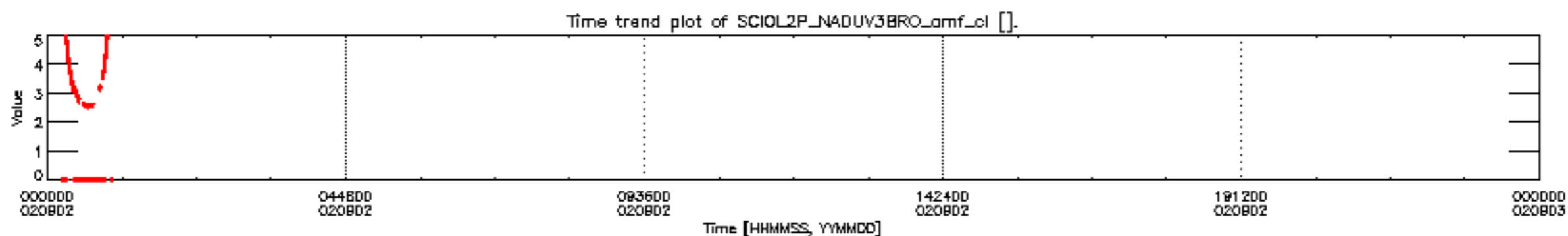
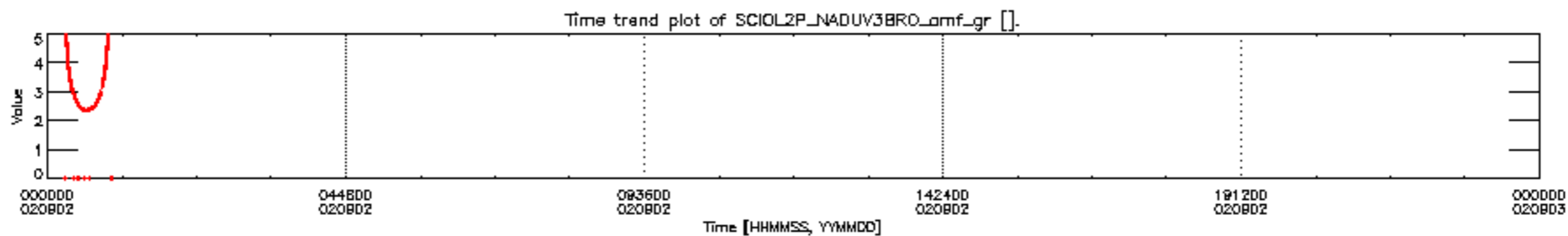
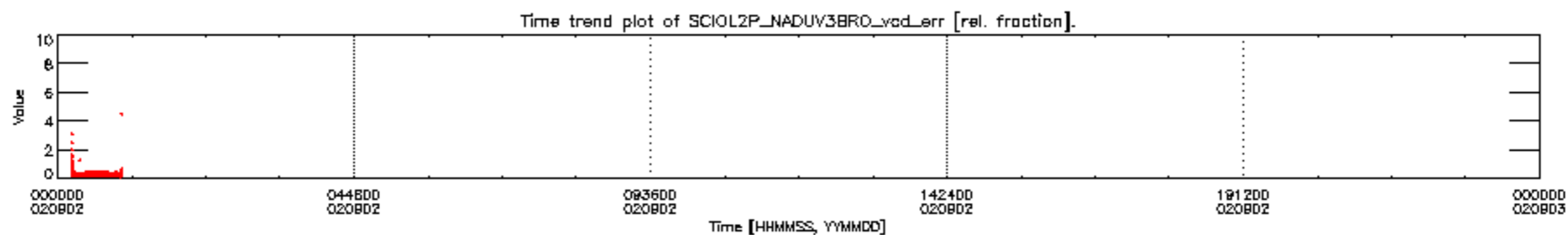
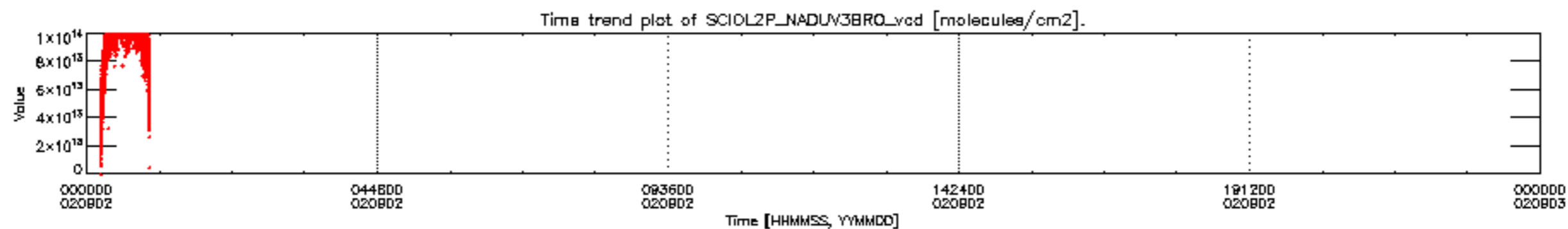
SCIOL2P\_NADUV1NO2\_amf\_gr for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



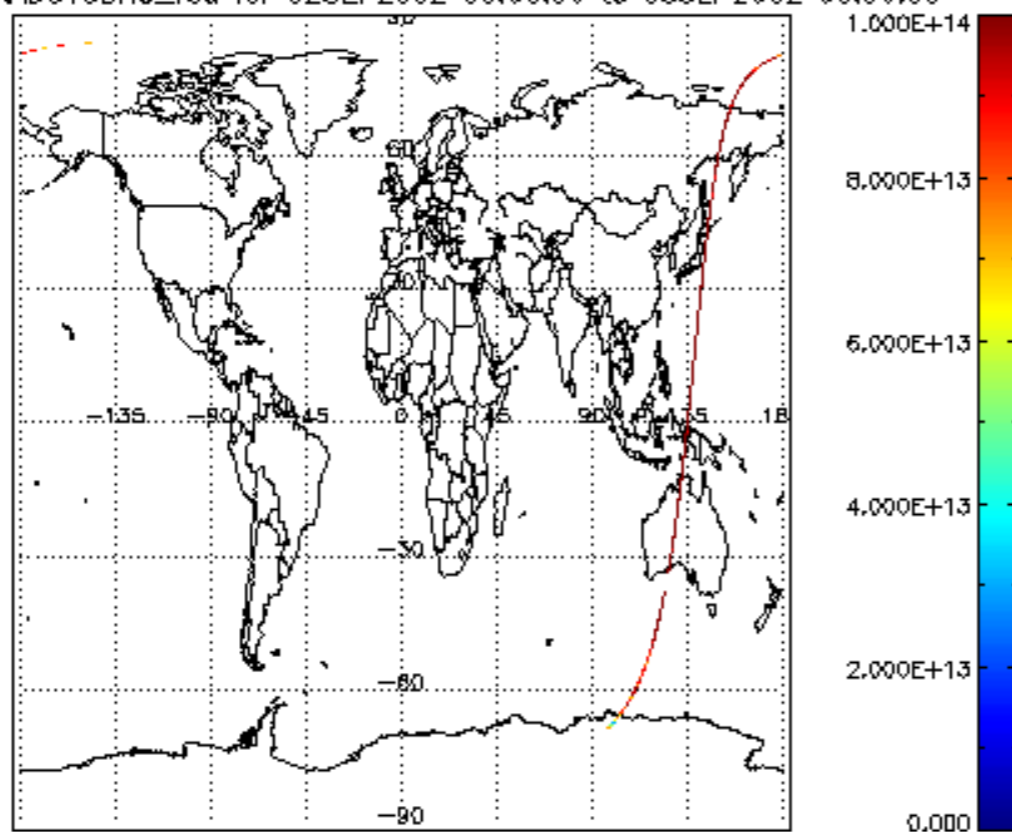
SCIOL2P\_NADUV1NO2\_amf\_cl for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



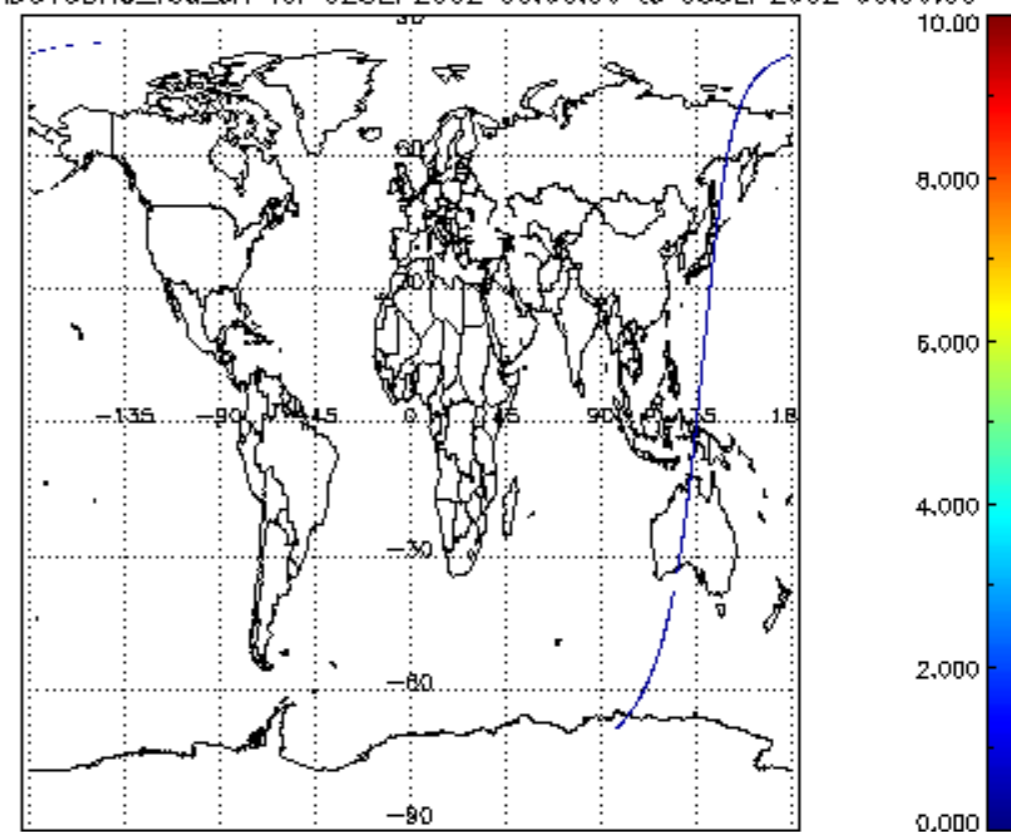




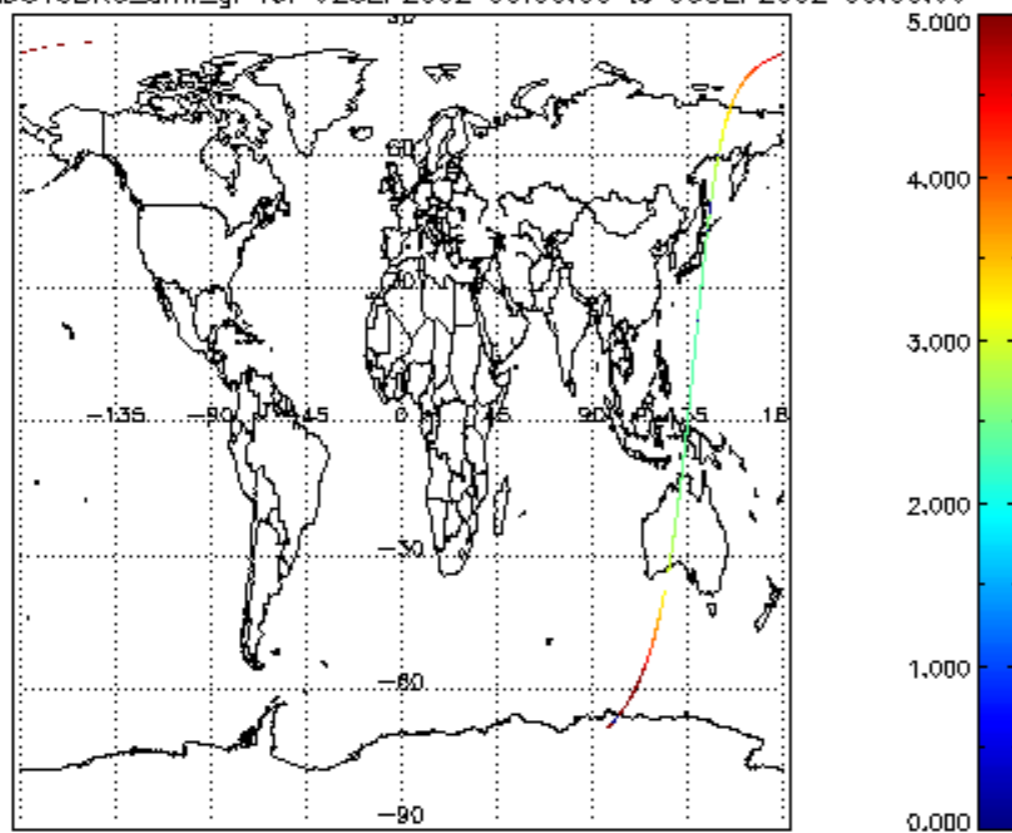
SCIOL2P\_NADUV3BRO\_vcd for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



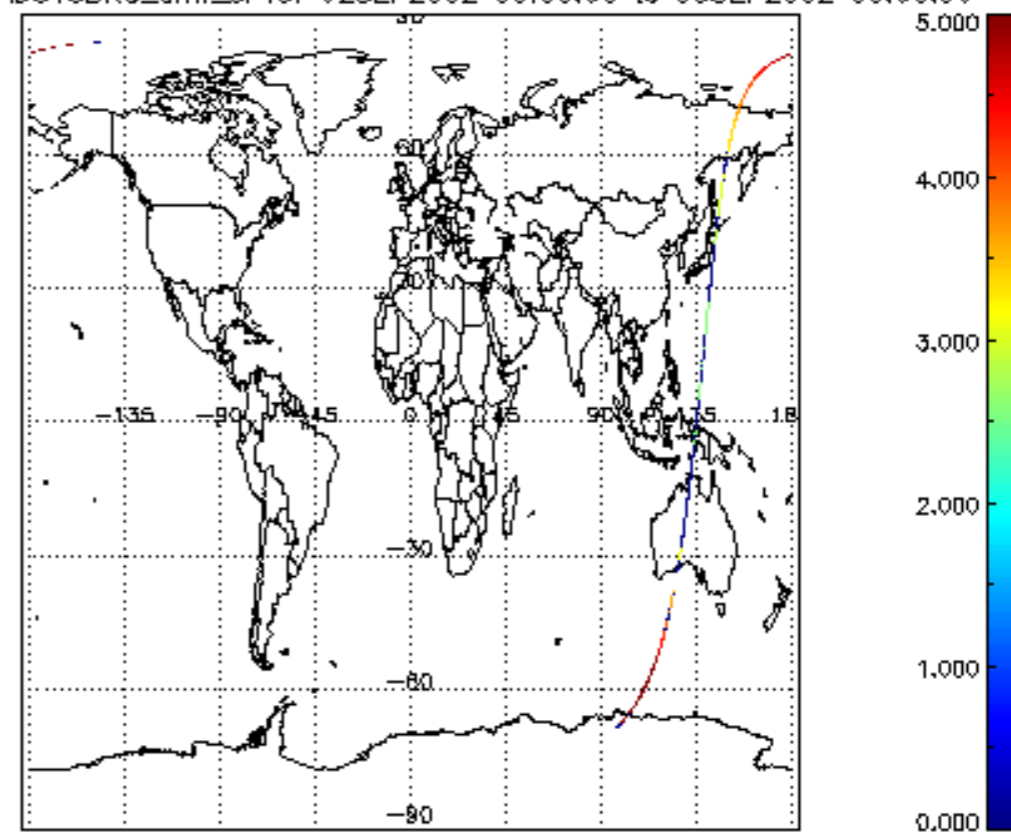
SCIOL2P\_NADUV3BRO\_vcd\_err for 02SEP2002 00:00:00 to 03SEP2002 00:00:00

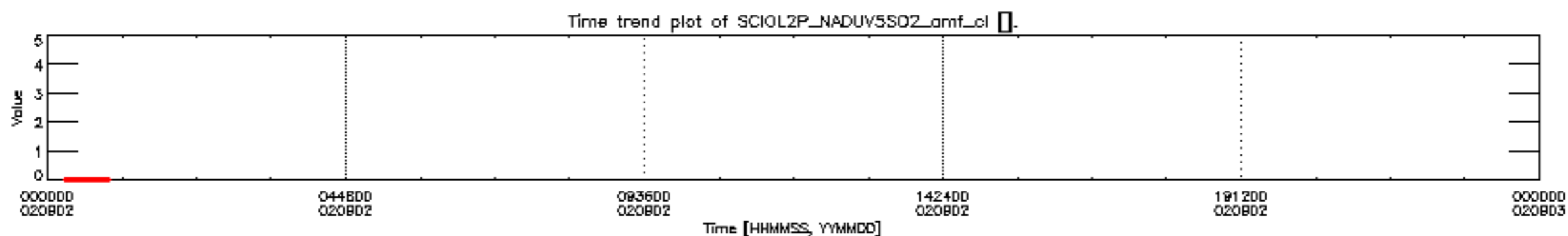
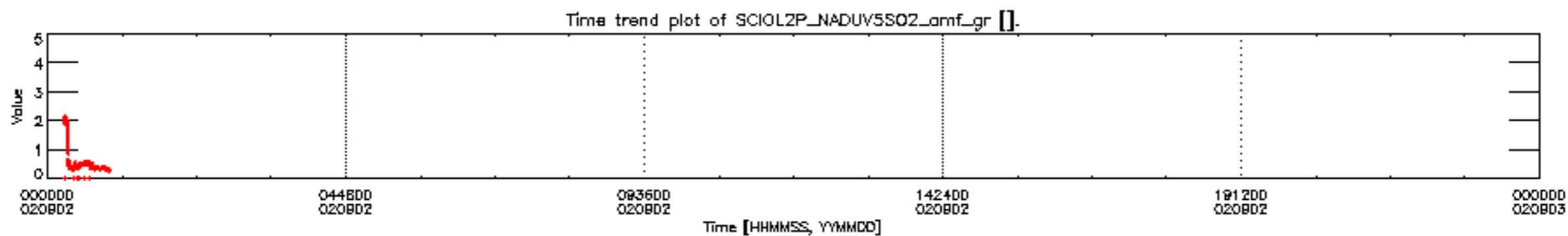
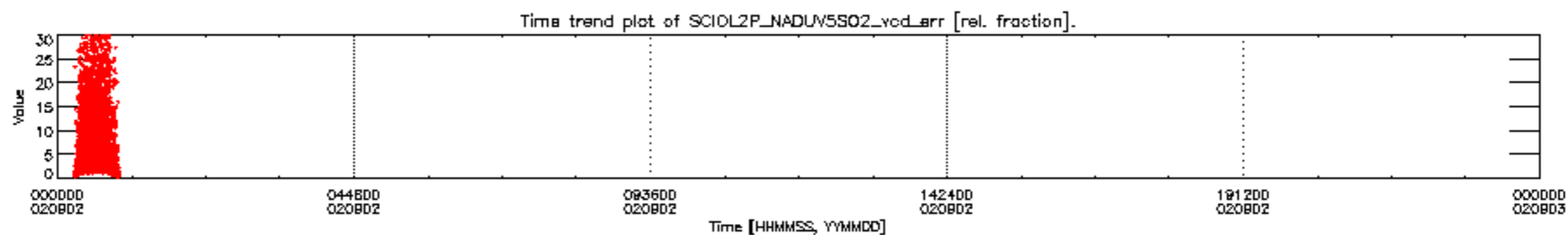
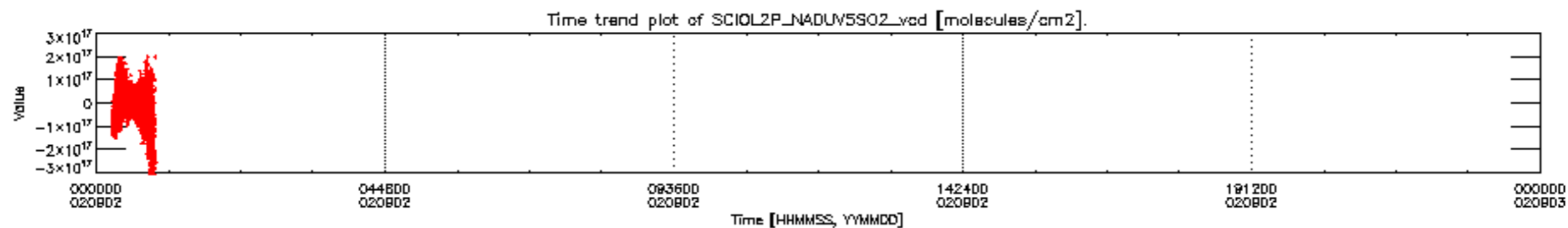


SCIOL2P\_NADUV3BRO\_amf\_gr for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



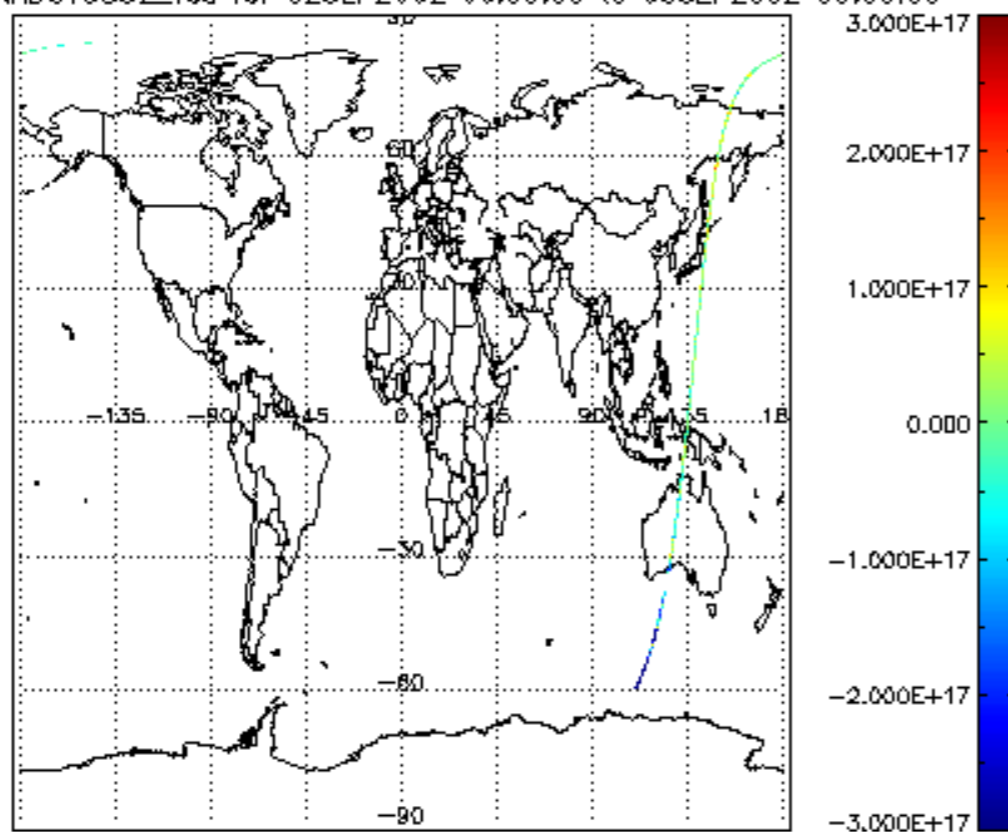
SCIOL2P\_NADUV3BRO\_amf\_cl for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



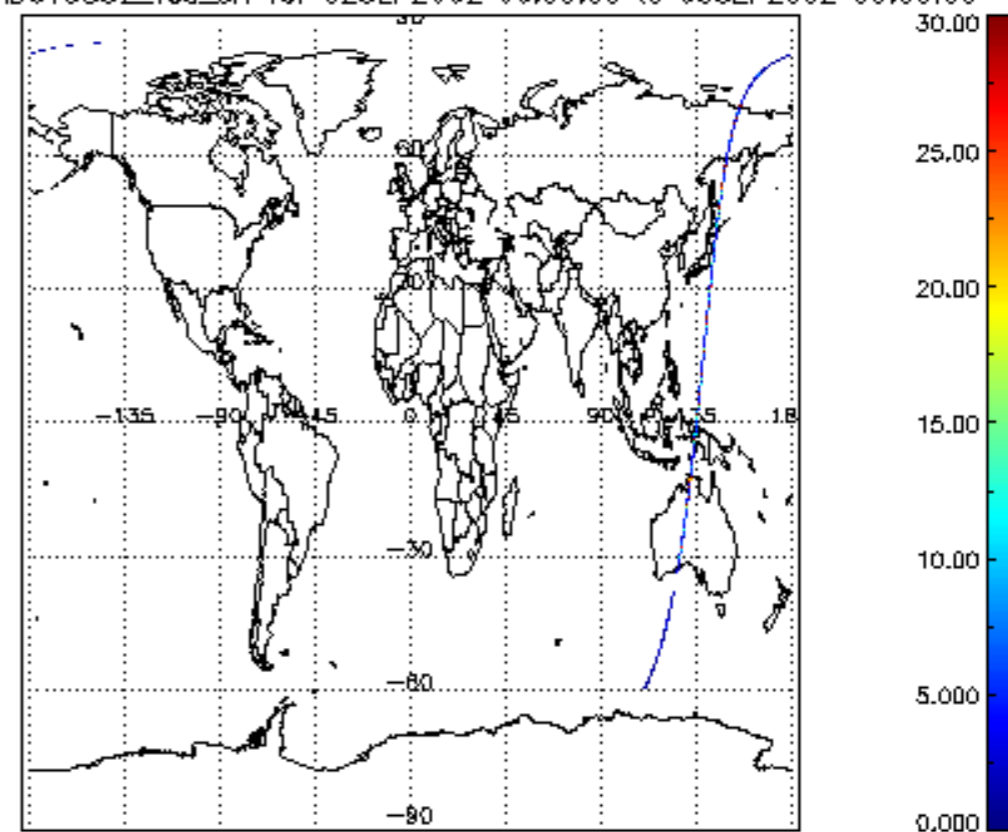




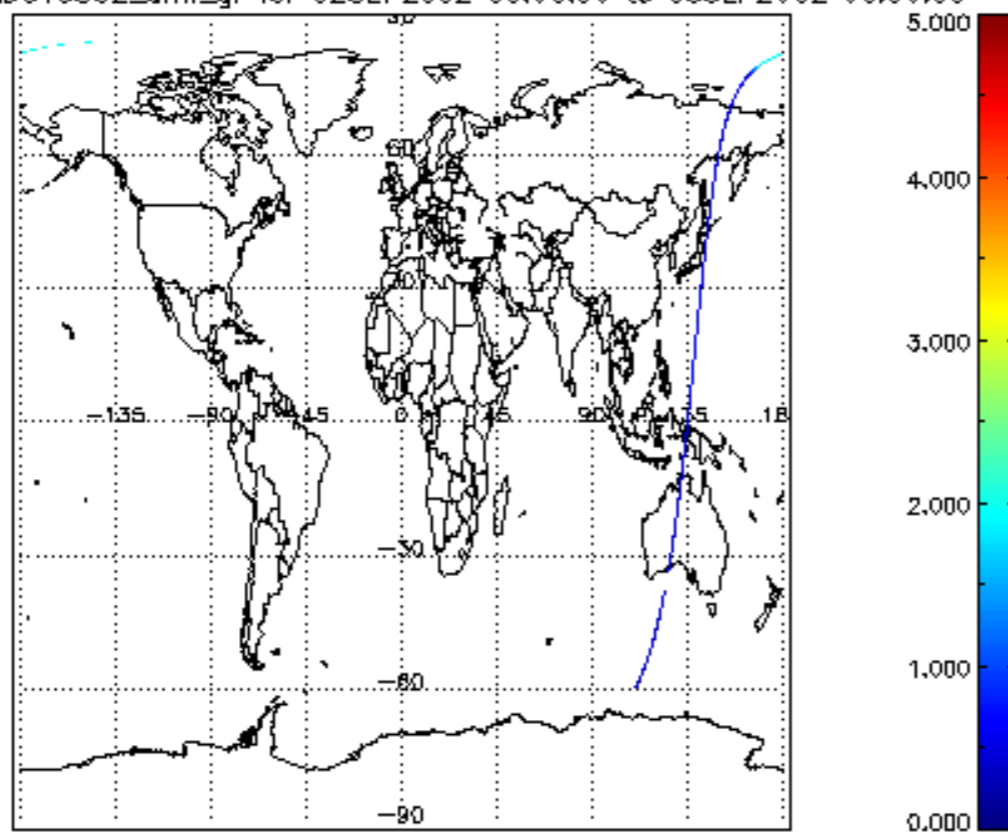
SCIOL2P\_NADUV5S02\_vcd for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



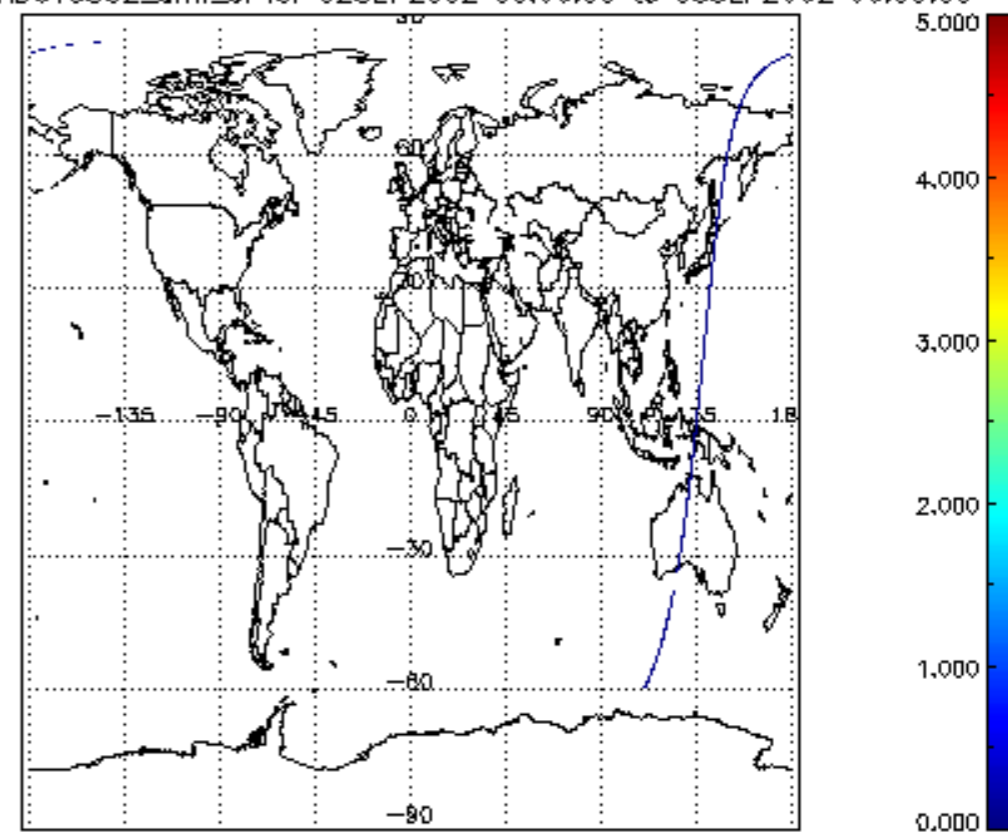
SCIOL2P\_NADUV5S02\_vcd\_err for 02SEP2002 00:00:00 to 03SEP2002 00:00:00

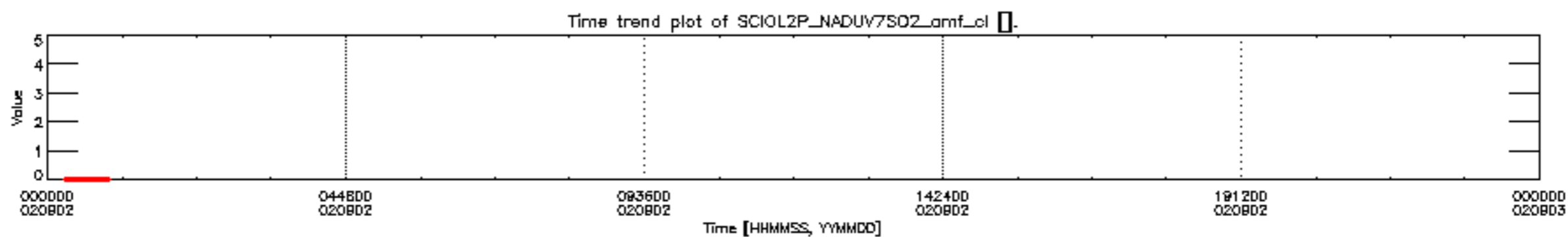
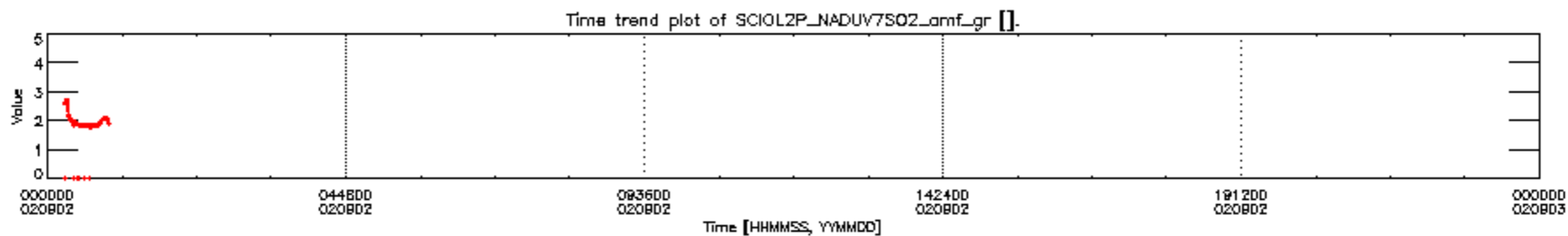
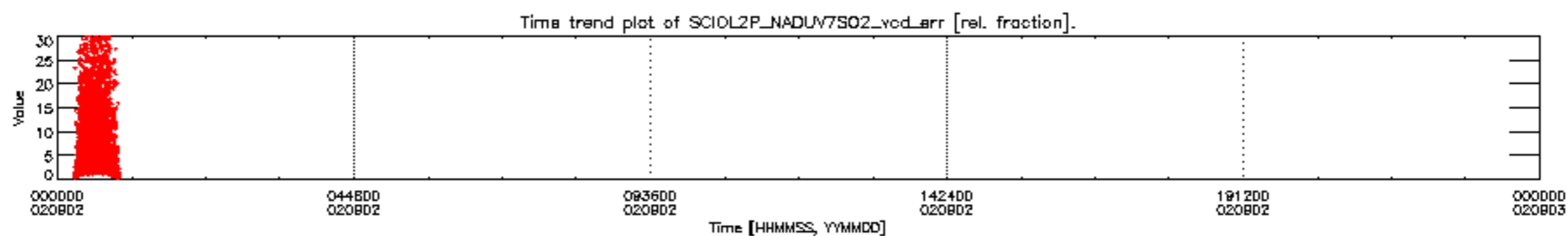
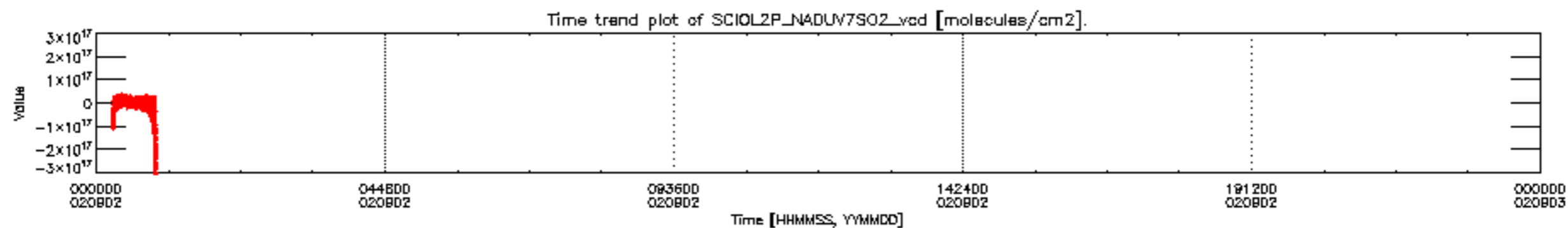


SCIOL2P\_NADUV5S02\_amf\_gr for 02SEP2002 00:00:00 to 03SEP2002 00:00:00

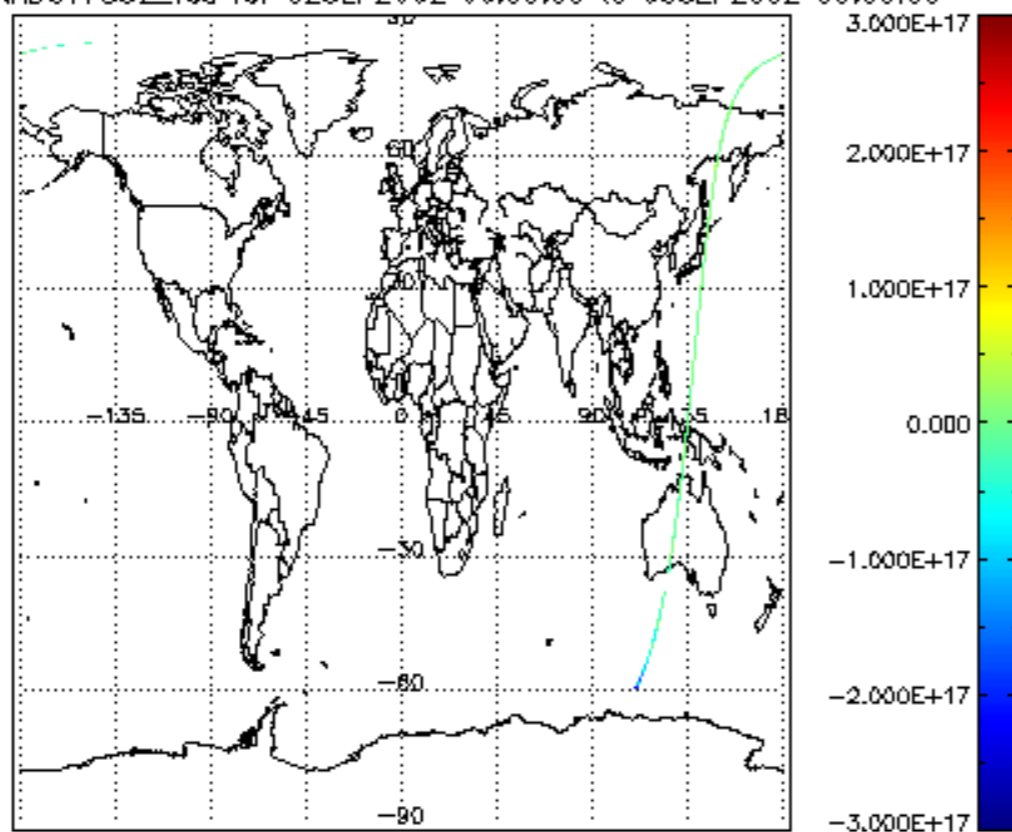


SCIOL2P\_NADUV5S02\_amf\_cl for 02SEP2002 00:00:00 to 03SEP2002 00:00:00

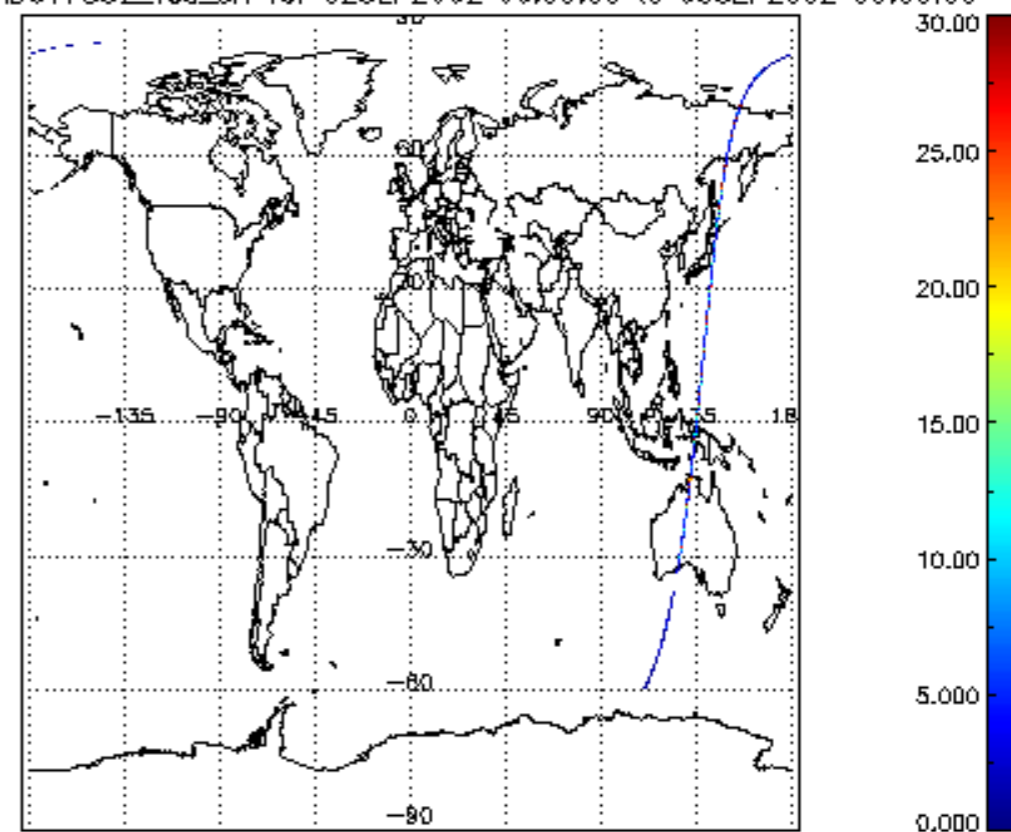




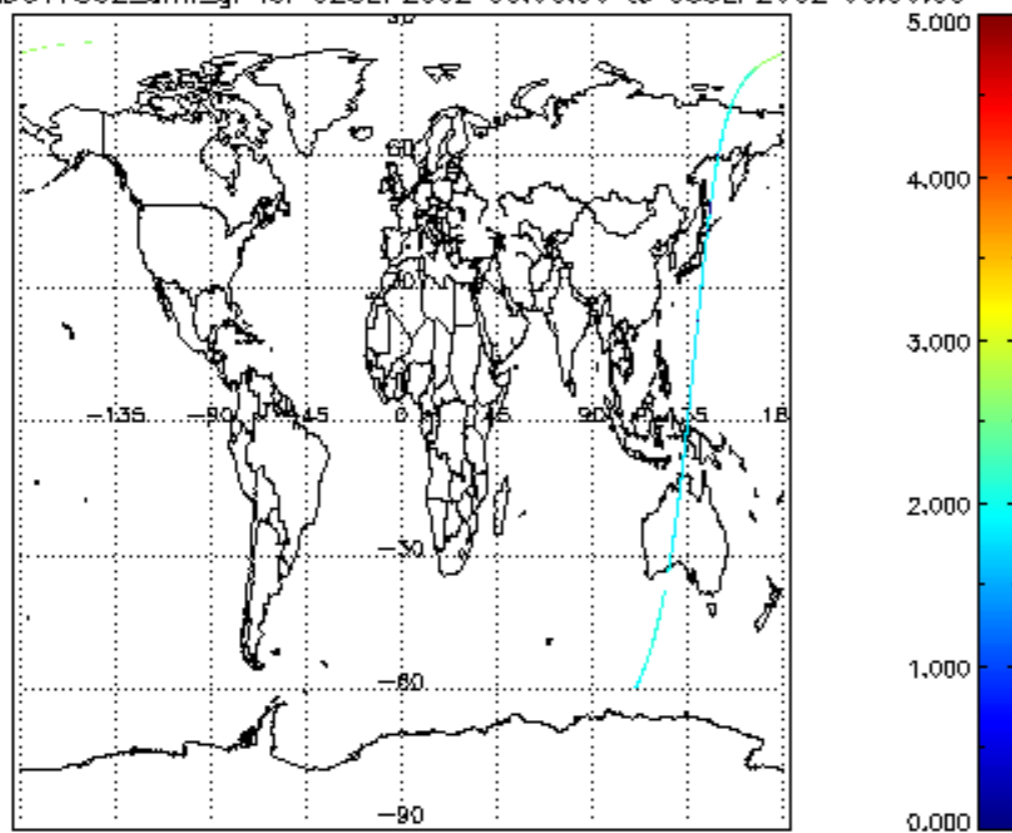
SCIOL2P\_NADUV7S02\_vcd for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



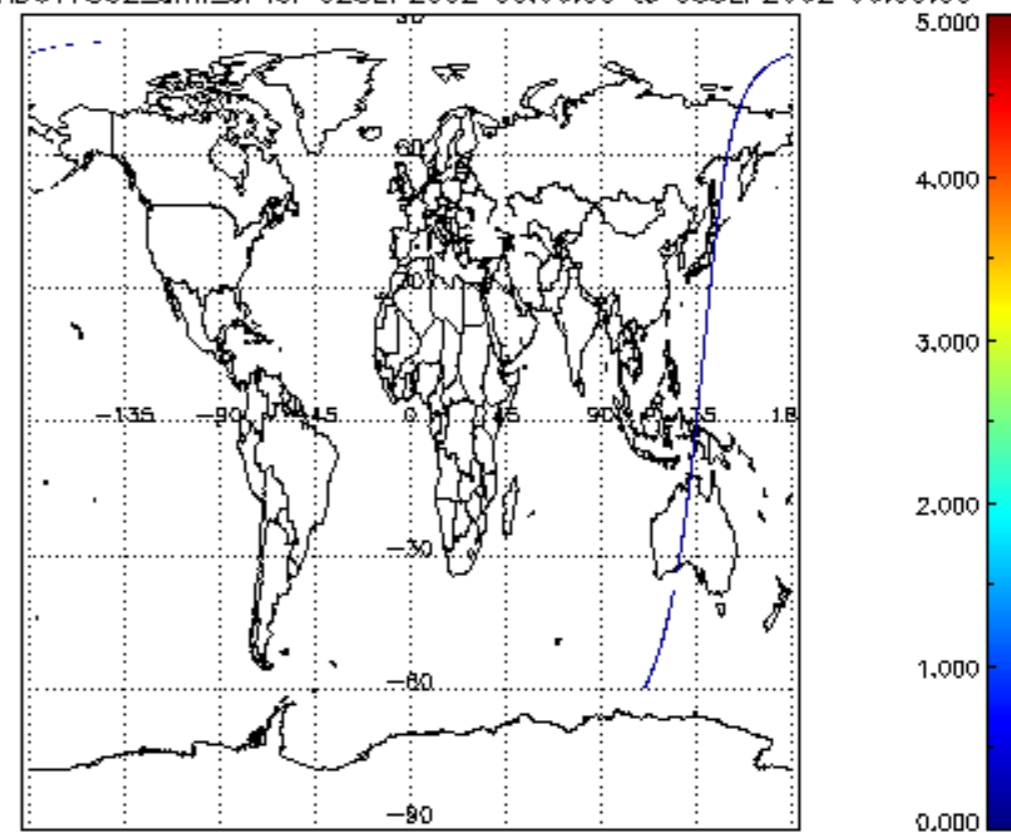
SCIOL2P\_NADUV7S02\_vcd\_err for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



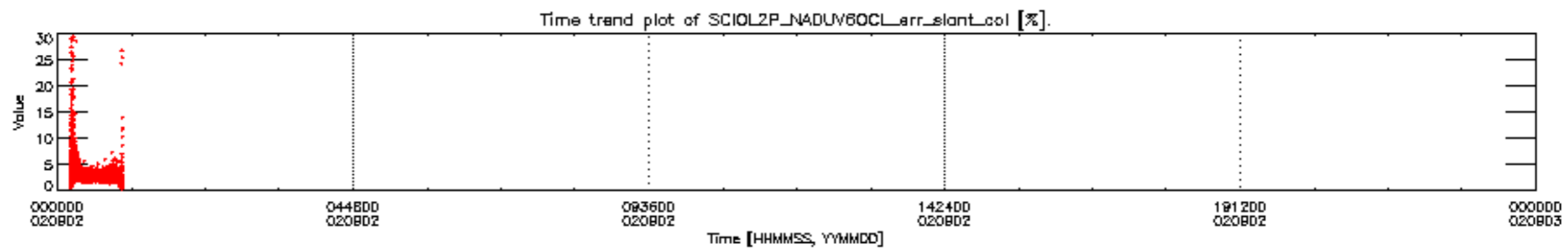
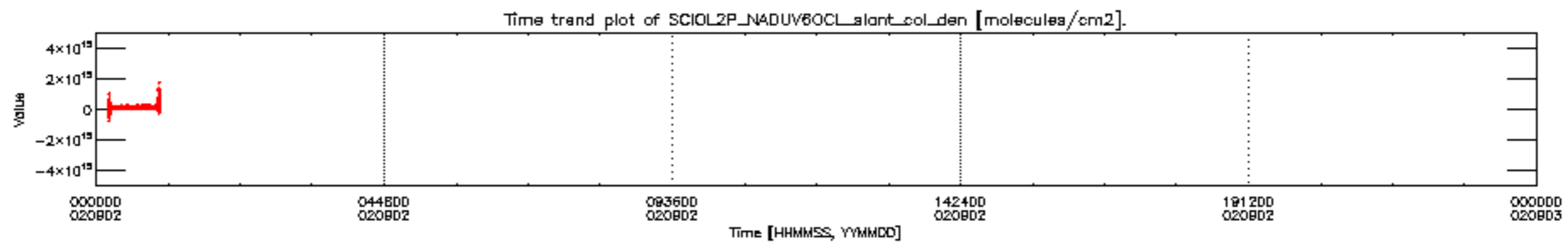
SCIOL2P\_NADUV7S02\_amf\_gr for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



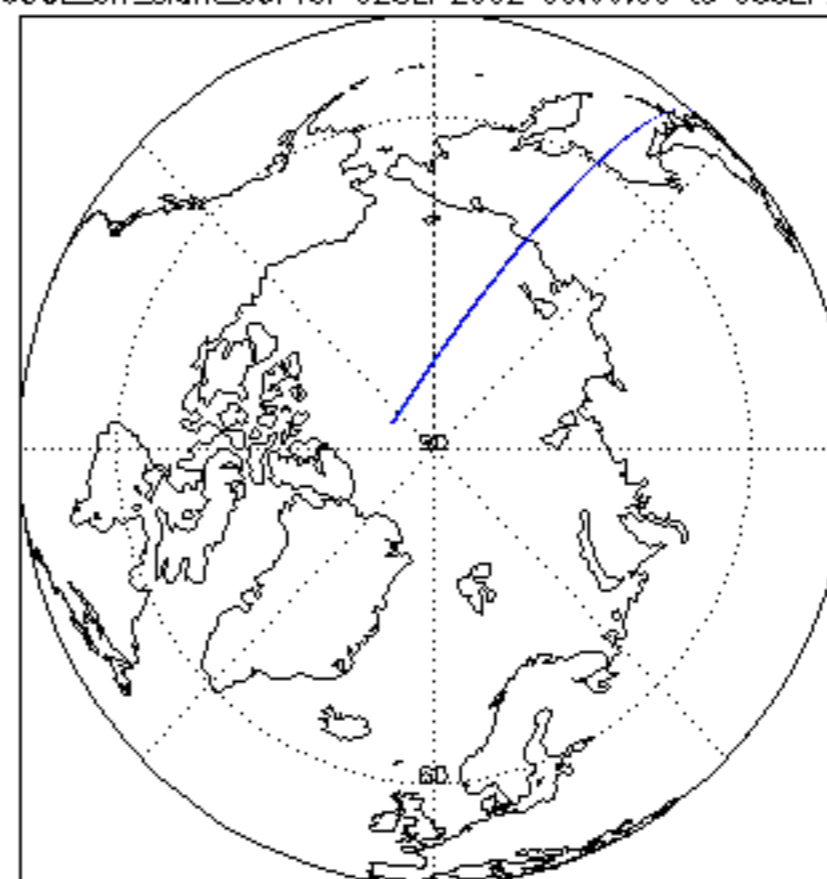
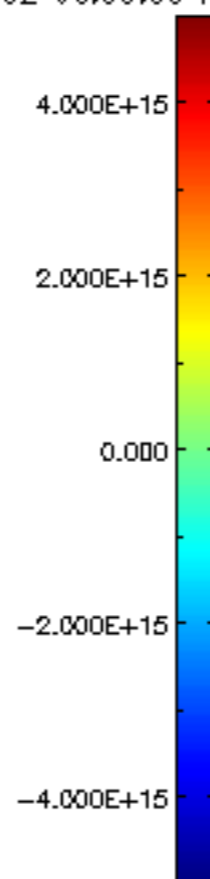
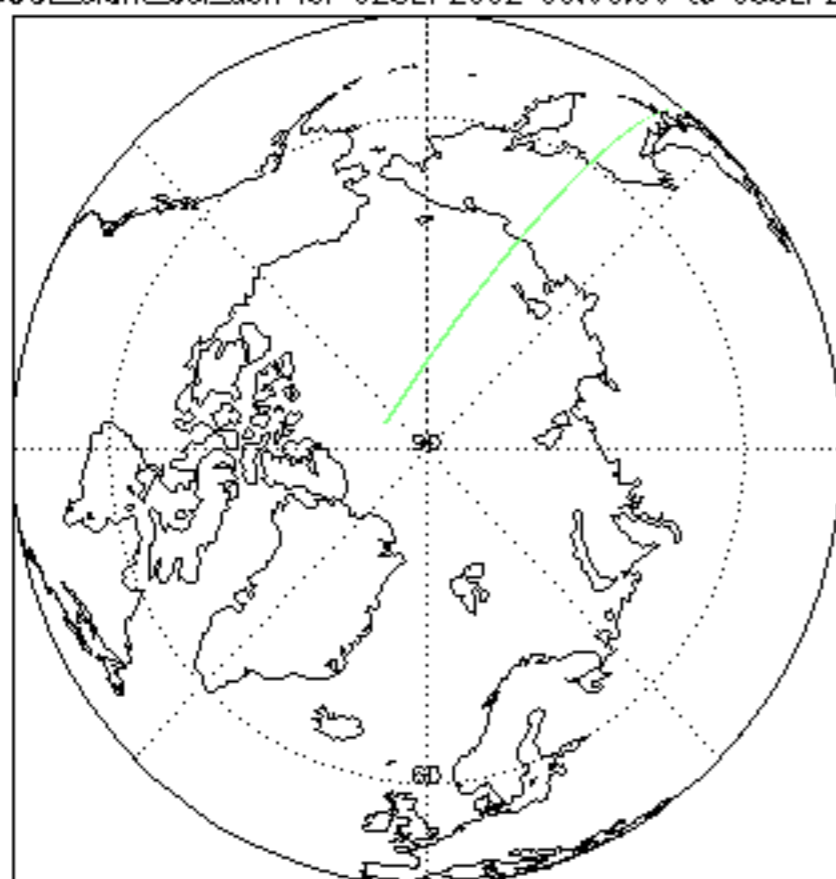
SCIOL2P\_NADUV7S02\_amf\_cl for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



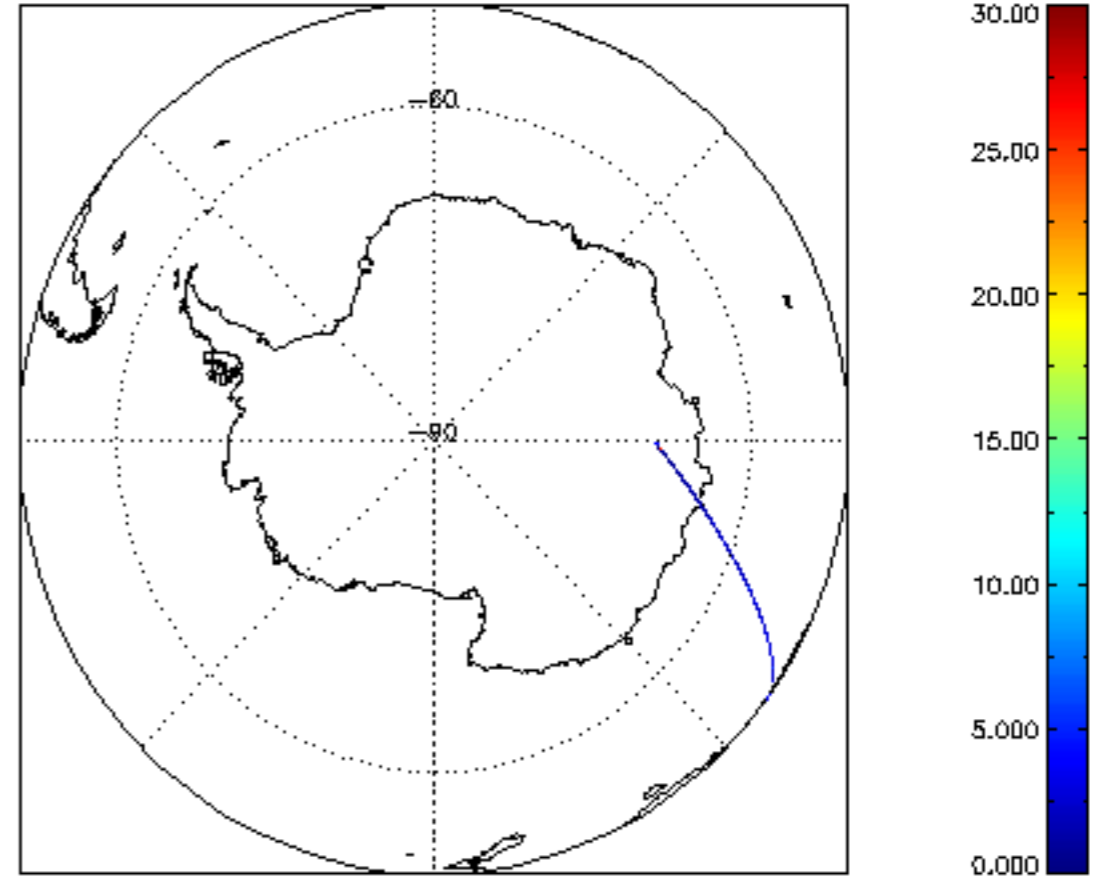
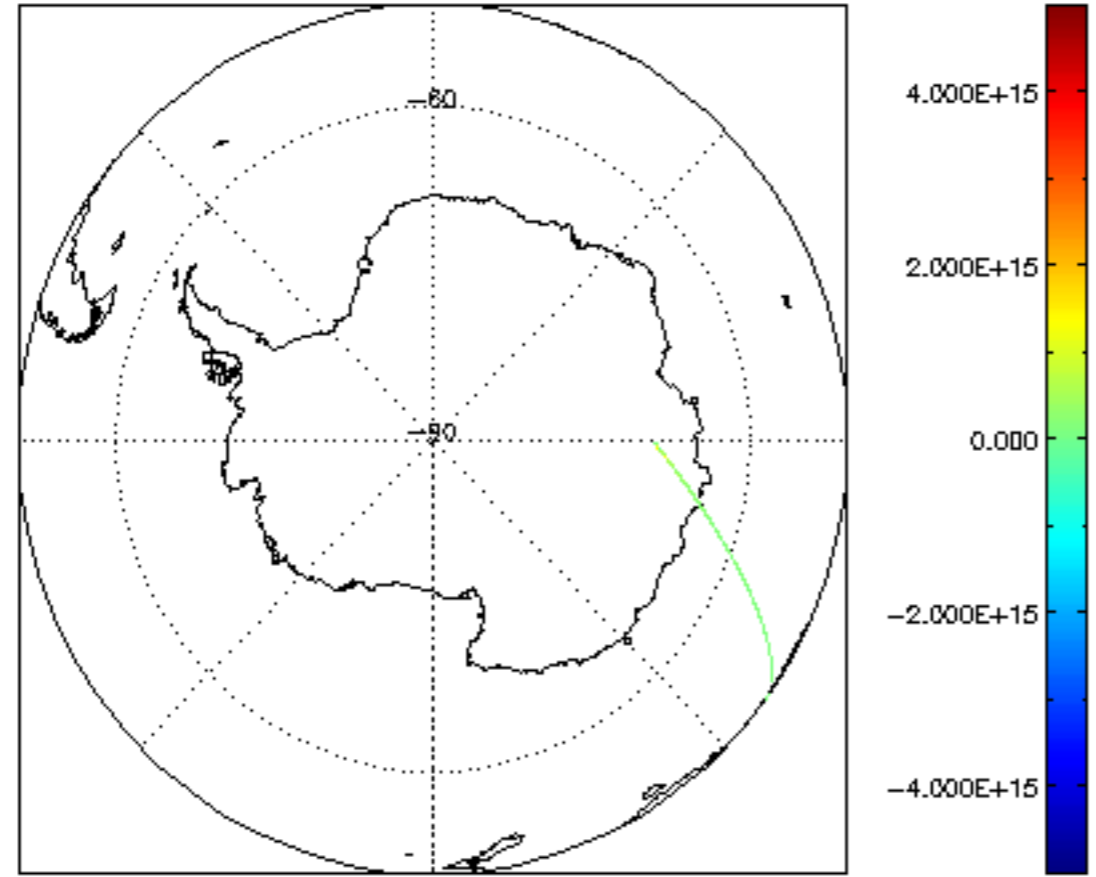




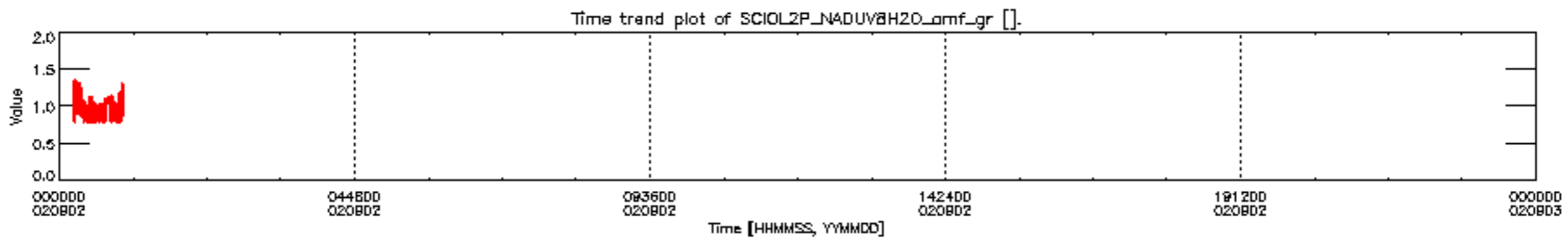
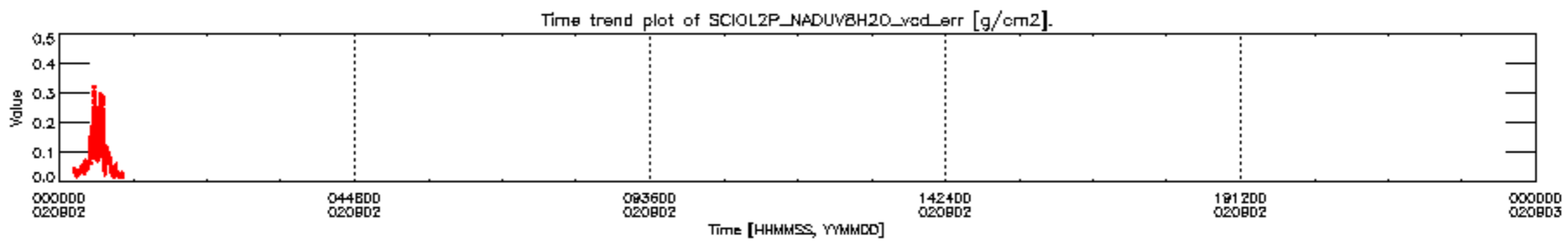
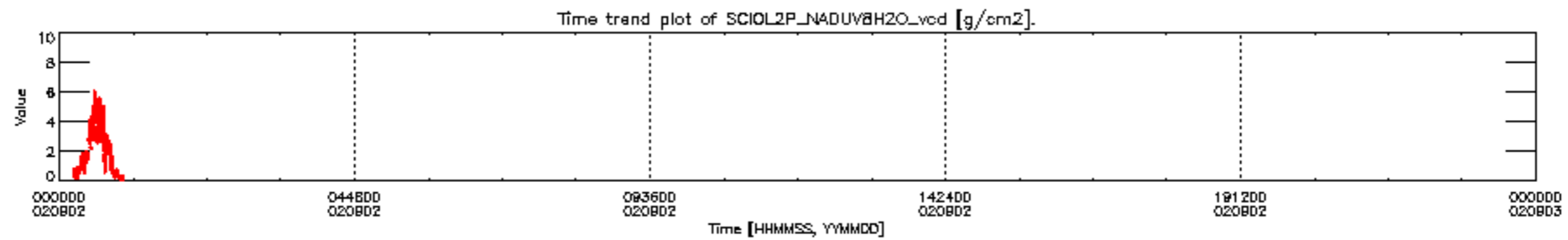
CIOL2P\_NADUV6OCL\_slant\_col\_den for 02SEP2002 00:00:00 to 03SEP2002 00:00:00 np iCIOL2P\_NADUV6OCL\_err\_slant\_col for 02SEP2002 00:00:00 to 03SEP2002 00:00:00 np



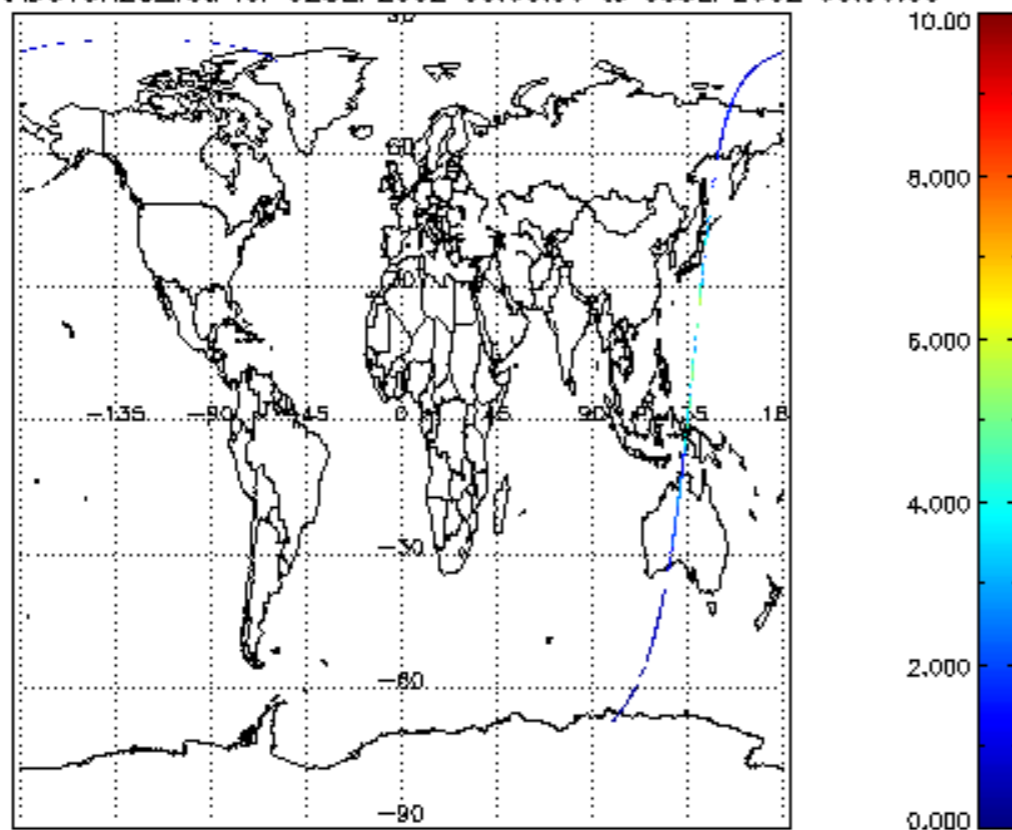
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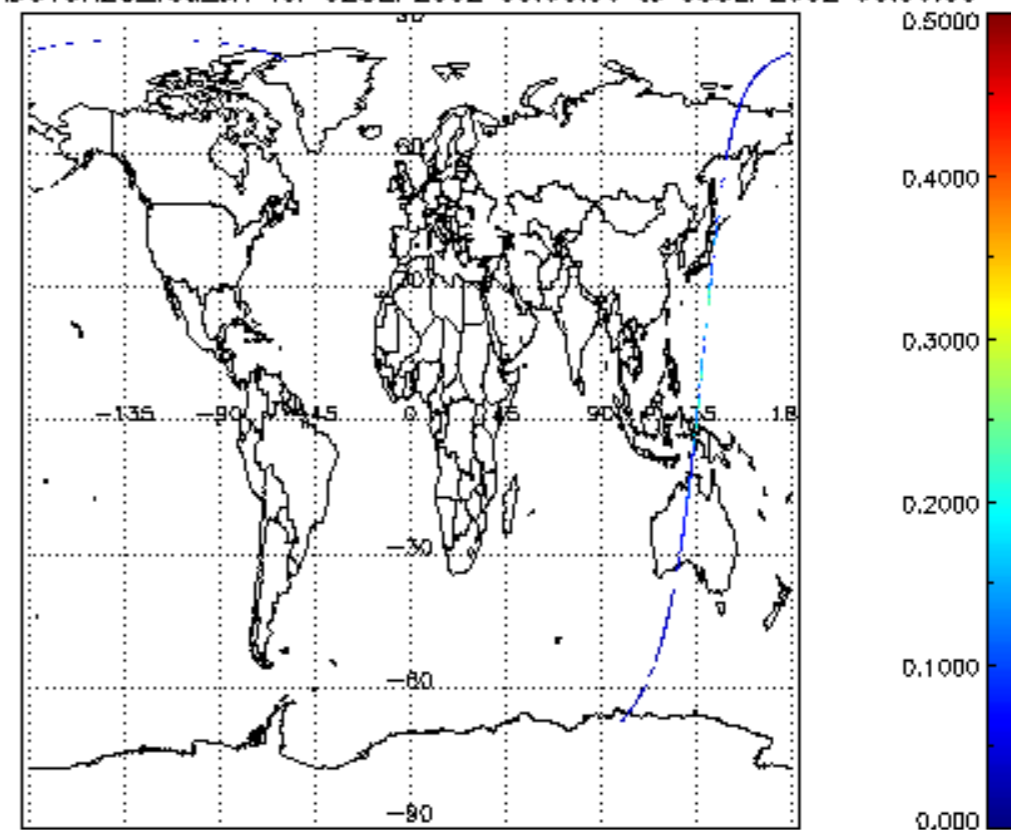




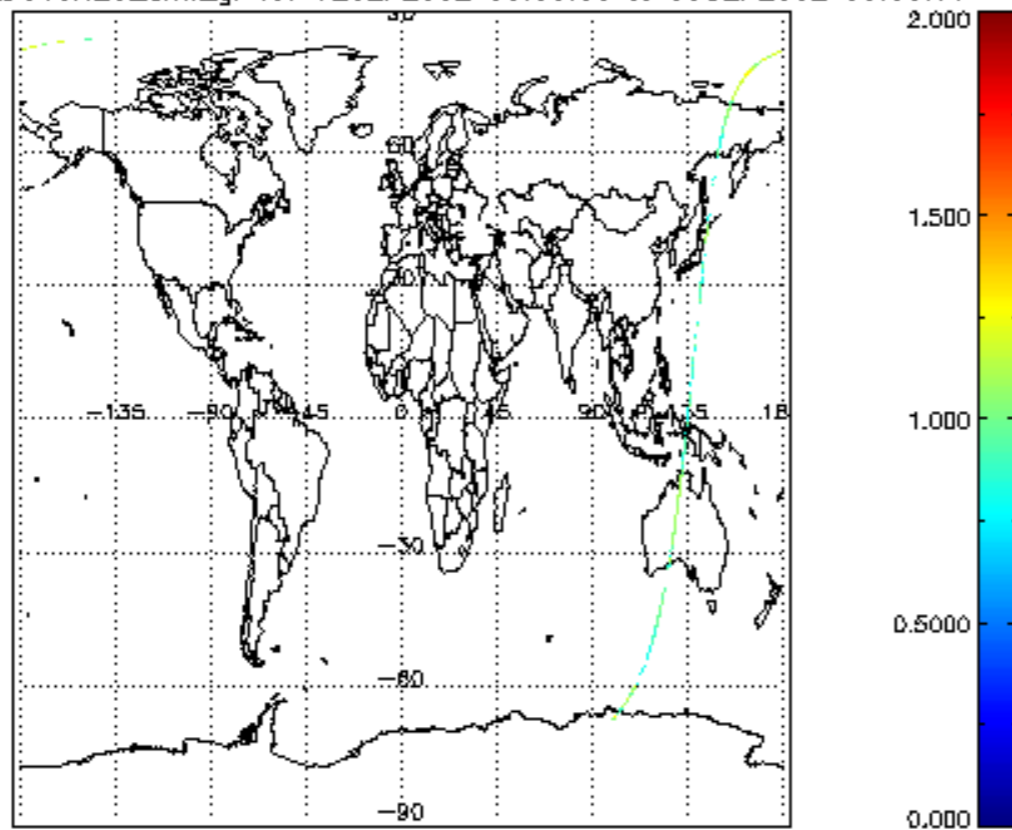
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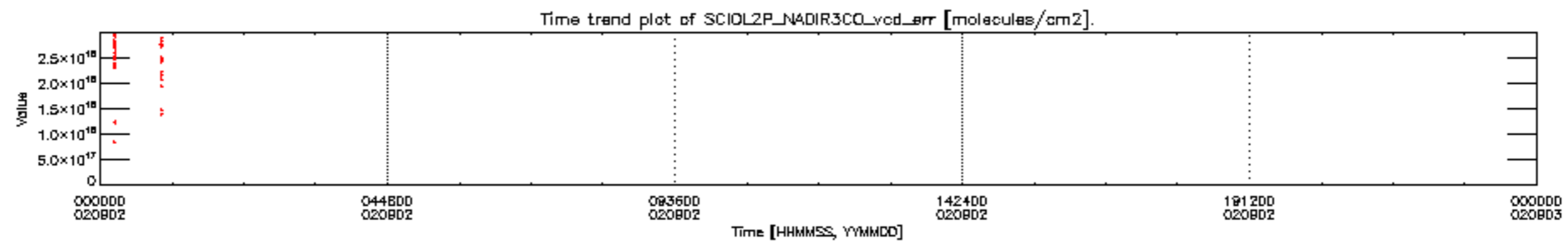
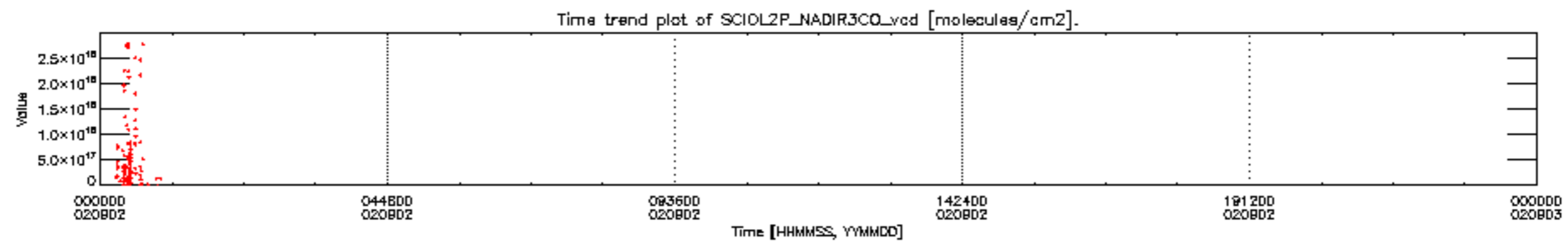


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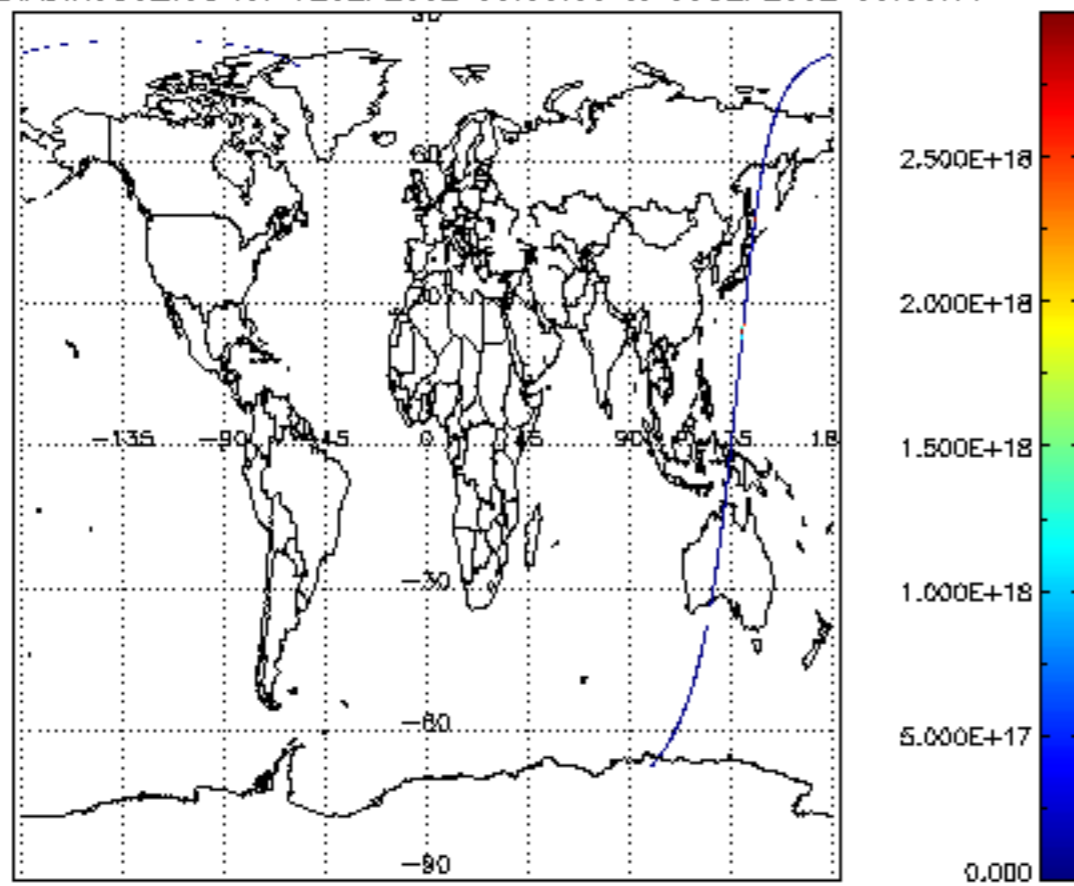
SCIOL2P\_NADUV8H2O\_amf\_gr for 02SEP2002 00:00:00 to 03SEP2002 00:00:00







SCIOL2P\_NADIR3CO\_vcd for 02SEP2002 00:00:00 to 03SEP2002 00:00:00



SCIOL2P\_NADIR3CO\_vcd\_err for 02SEP2002 00:00:00 to 03SEP2002 00:00:00

