

## 2. SCIAMACHY Daily Report for Level 2 products

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### 2.3 ADF monitoring

## 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	28FEB2012 12:00:54
Data source version	SCIA-OL/5.02-W
Processing scope for products	16DEC2002 00:00:00 to 17DEC2002 00:00:00
Start time of first product within scope	16DEC2002 01:57:04
Stop time of last product within scope	17DEC2002 00:42:56
Total number of level 2 products	12
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__2PWDPA20021216_015704_000035172012_00089_04151_3075.N1</a>	16DEC2002 01:57:04	16DEC2002 02:55:41	0	GOOD
1	<a href="#">SCI_OL__2PWDPA20021216_033742_000035192012_00090_04152_2760.N1</a>	16DEC2002 03:37:42	16DEC2002 04:36:21	0	GOOD
2	<a href="#">SCI_OL__2PWDPA20021216_051820_000035212012_00091_04153_2761.N1</a>	16DEC2002 05:18:20	16DEC2002 06:17:01	0	GOOD
<b>3</b>	<a href="#">SCI_OL__2PWDPA20021216_065858_000034602012_00092_04154_2762.N1</a>	16DEC2002 06:58:58	<b>16DEC2002 07:56:39</b>	0	GOOD
<b>4</b>	<a href="#">SCI_OL__2PWDPA20021216_083936_000034622012_00093_04155_3076.N1</a>	16DEC2002 08:39:36	<b>16DEC2002 09:37:18</b>	0	GOOD

5	SCI_OL__2PWDP A20021216_102014_000034642012_00094_04156_3077.N1	16DEC2002 10:20:14	16DEC2002 11:17:58	0	GOOD
6	SCI_OL__2PWDP A20021216_120051_000034662012_00095_04157_2771.N1	16DEC2002 12:00:51	16DEC2002 12:58:37	0	GOOD
7	SCI_OL__2PWDP A20021216_134129_000034672012_00096_04158_2772.N1	16DEC2002 13:41:29	16DEC2002 14:39:17	0	GOOD
8	SCI_OL__2PWDP A20021216_152207_000034692012_00097_04159_2773.N1	16DEC2002 15:22:07	16DEC2002 16:19:56	0	GOOD
9	SCI_OL__2PWDP A20021216_170244_000034712012_00098_04160_2774.N1	16DEC2002 17:02:44	16DEC2002 18:00:35	0	GOOD
10	SCI_OL__2PWDP A20021216_184335_000034422012_00099_04161_2775.N1	16DEC2002 18:43:35	16DEC2002 19:40:57	0	GOOD
11	SCI_OL__2PWDP A20021216_234917_000032182012_00102_04164_2778.N1	16DEC2002 23:49:17	17DEC2002 00:42:56	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: 85481

Total number of cloud data DSRs with good quality flag (=0): 85481 (100.0 %)

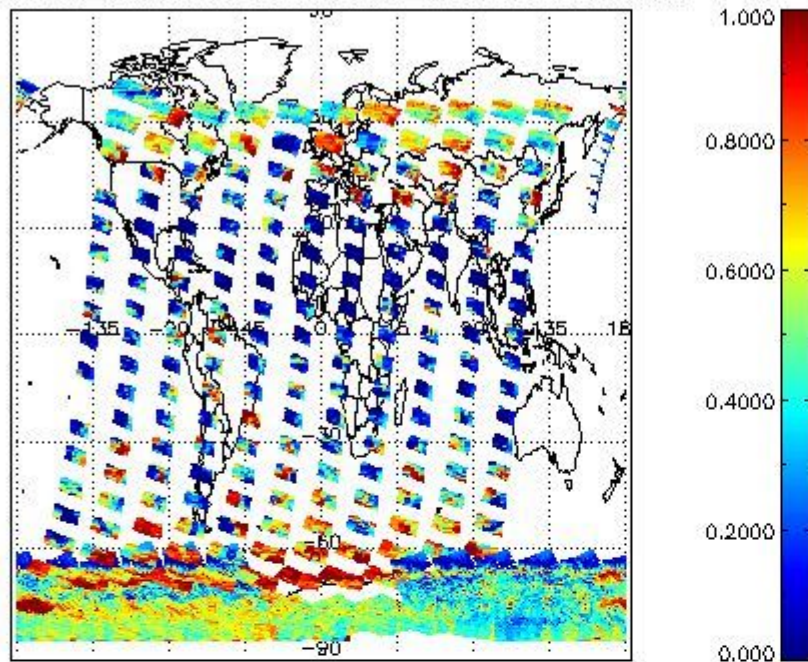
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	85481	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	85481	0.23544	0.25000	0.12500	1.0000	0.076862	s
CL_FRAC	85481	0.41348	0.40718	0.0000	1.0000	0.30464	
CL_FRAC_ERR	85481	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	85481	7.5339	8.0000	4.0000	32.000	2.4596	
PMD_READ_CL[0]	85481	0.65973	0.0000	0.0000	26.000	1.7445	-
PMD_READ_CL[1]	85481	1.4593	0.0000	0.0000	24.000	2.7329	-
CL_TOP_HEIGHT	74525	3.4192	2.4865	0.0000	17.000	3.3413	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	74525	50.493	36.089	0.0000	101.00	40.238	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	85481	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	85481	11001010	11000100	11000000	11100000	3298.1	
AERO_ABSO_IND	85481	0.17902	0.0000	0.0000	6.9904	0.43547	
AERO_IND_DIAG	85481	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	85481	01110101	11000000	00000000	11000000	23930.	

#### Time and geolocation plots:

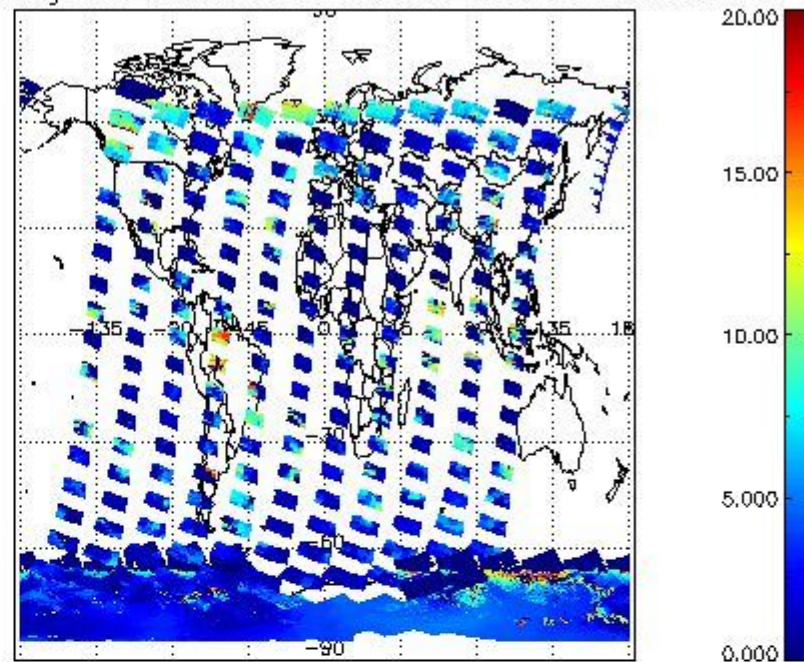
Plots are available for the following parameters:

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

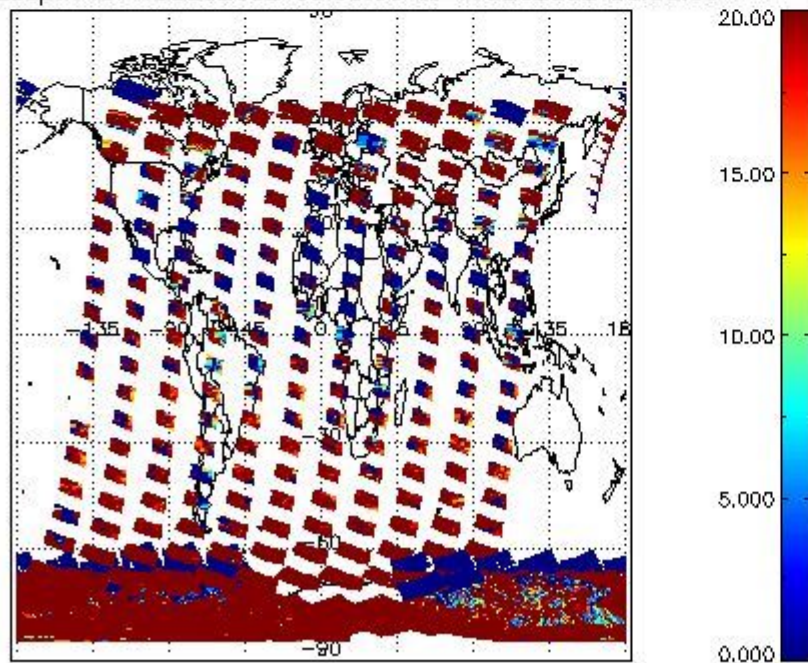
cL\_frac for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



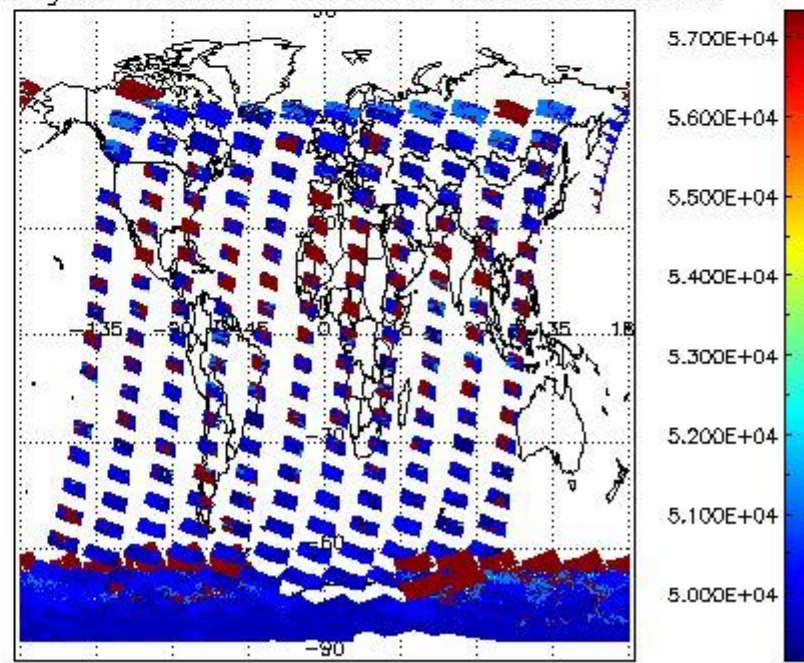
cL\_top\_height for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



cL\_opt\_depth for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



cloud\_flags for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



## 2.2.2 Nadir

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

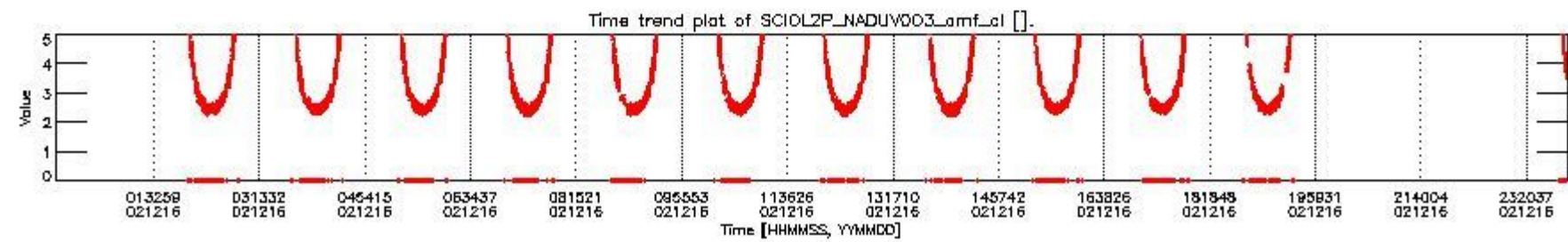
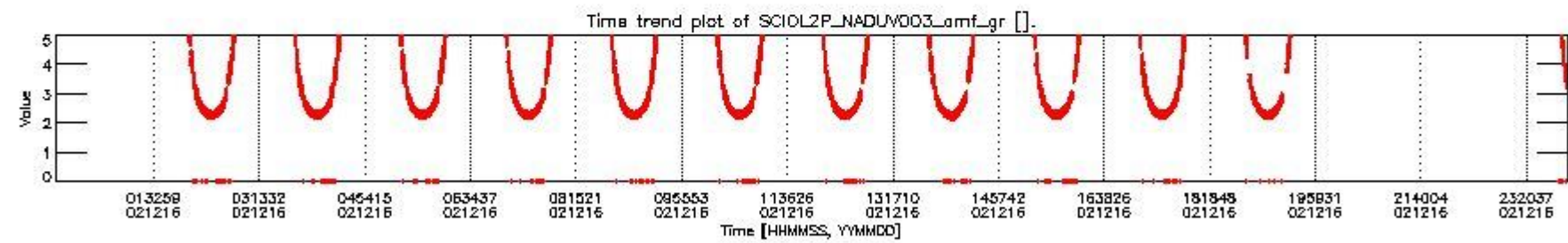
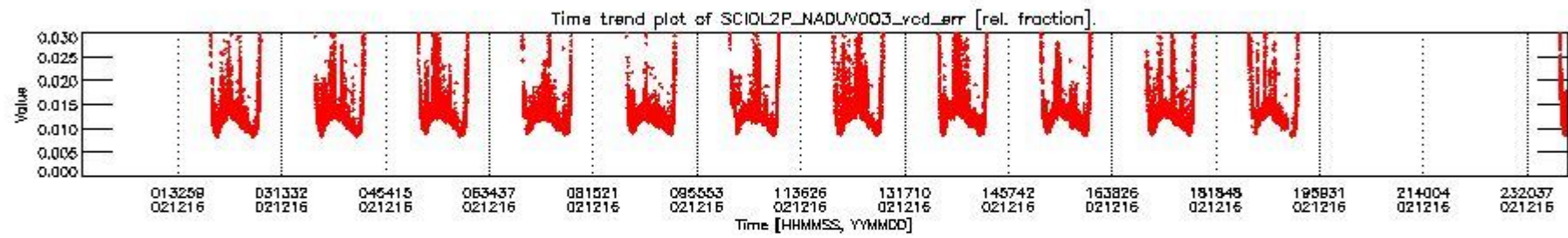
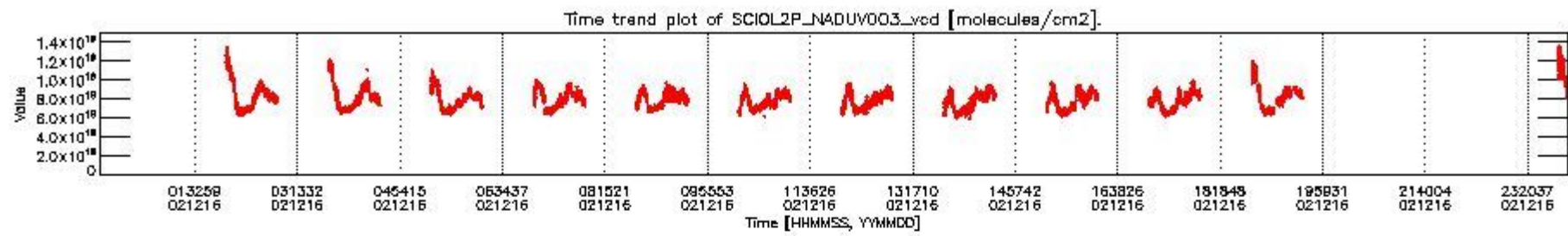
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

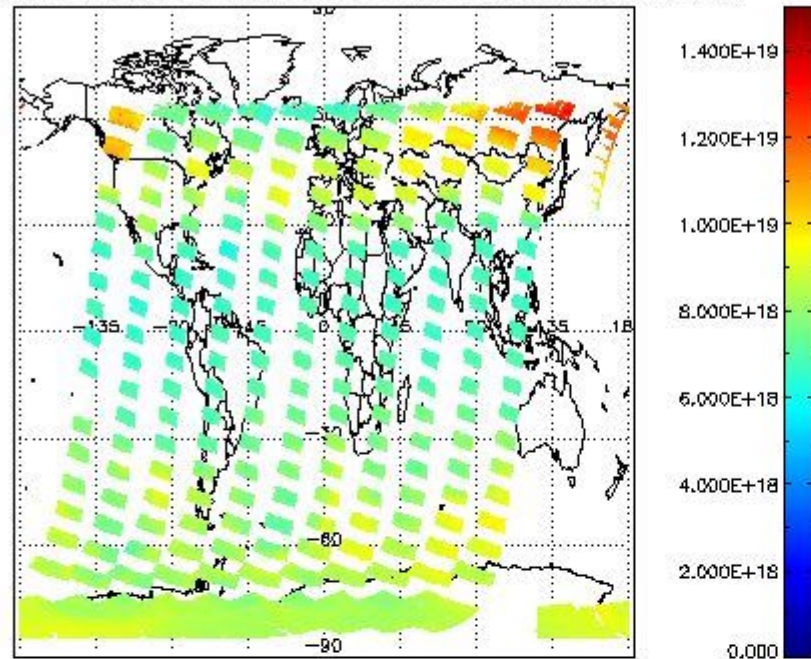
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

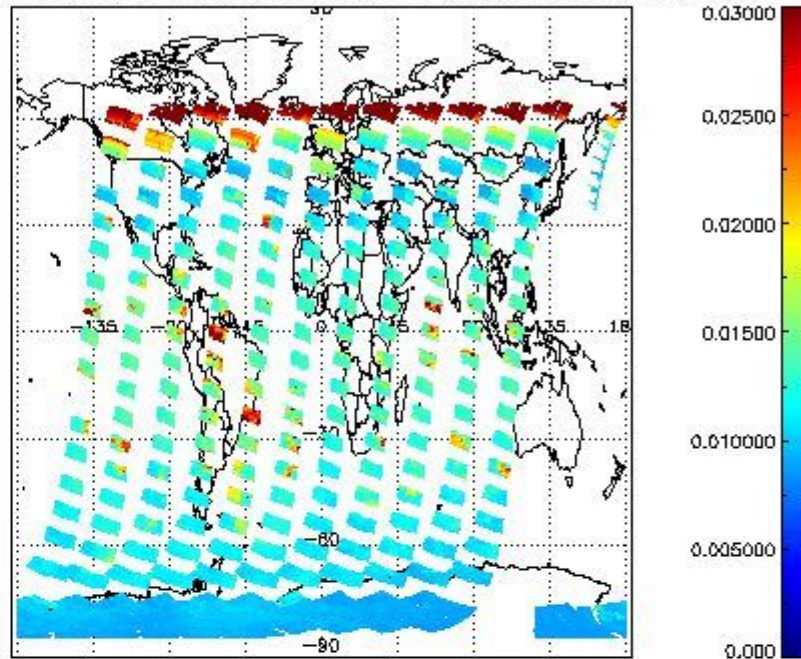
#### 2.2.2.1 O3 (UV0)



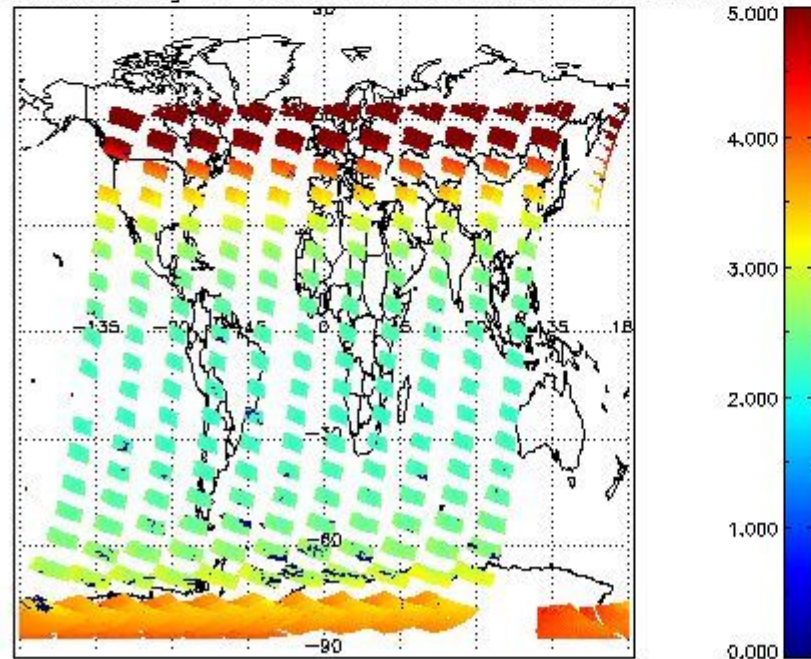
SCIOL2P\_NADUV003\_vcd for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



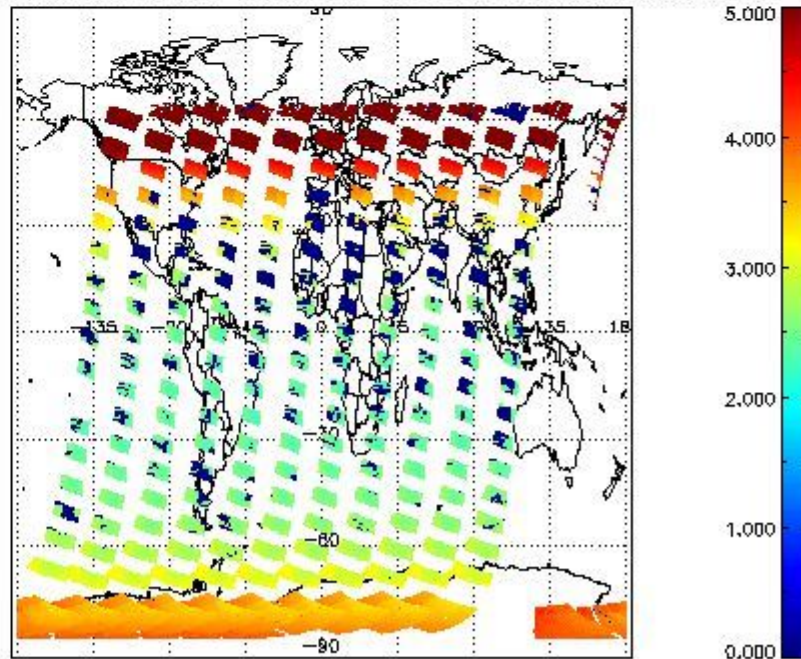
SCIOL2P\_NADUV003\_vcd\_err for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



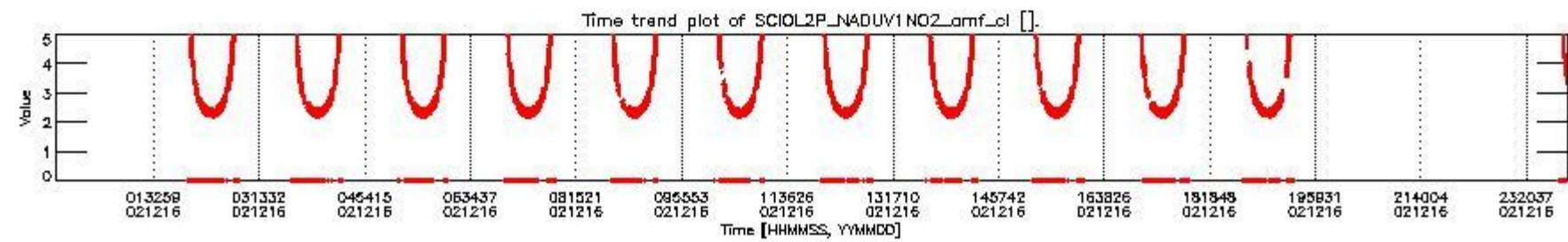
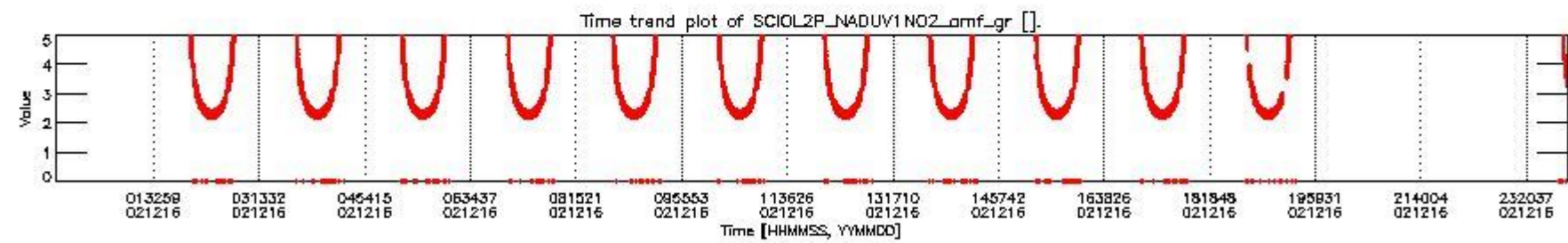
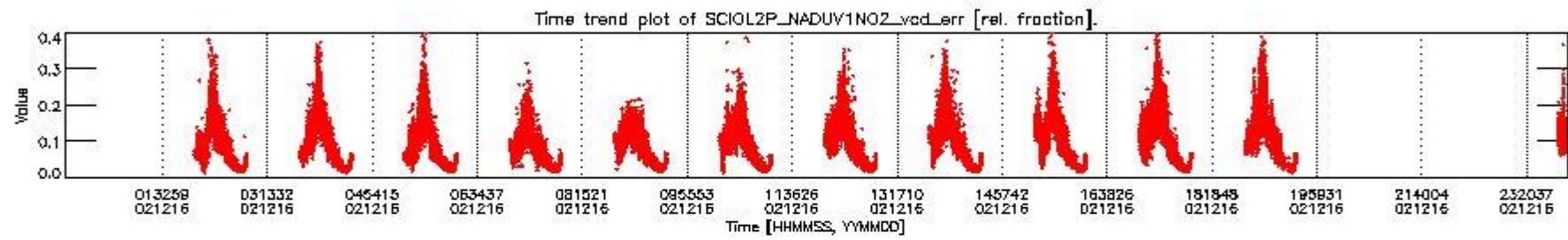
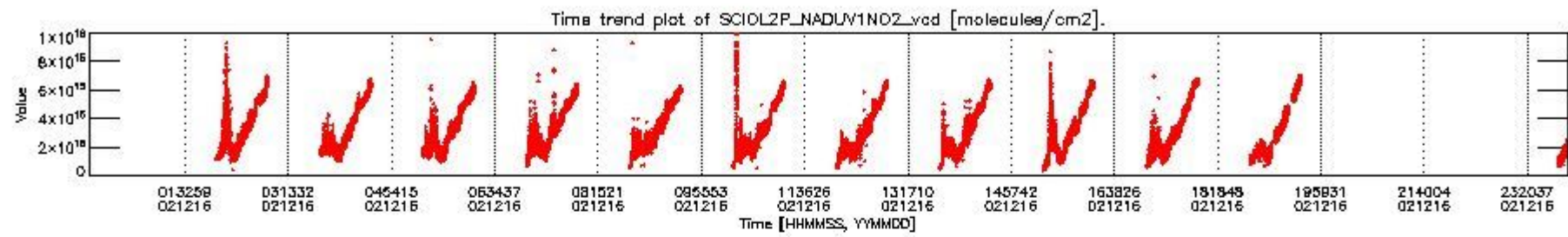
SCIOL2P\_NADUV003\_amf\_gr for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



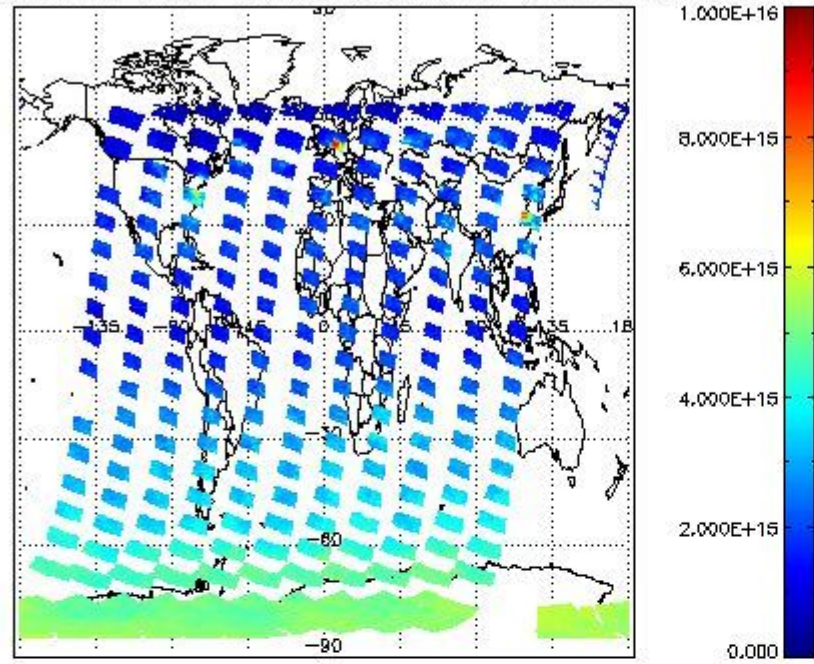
SCIOL2P\_NADUV003\_amf\_cl for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



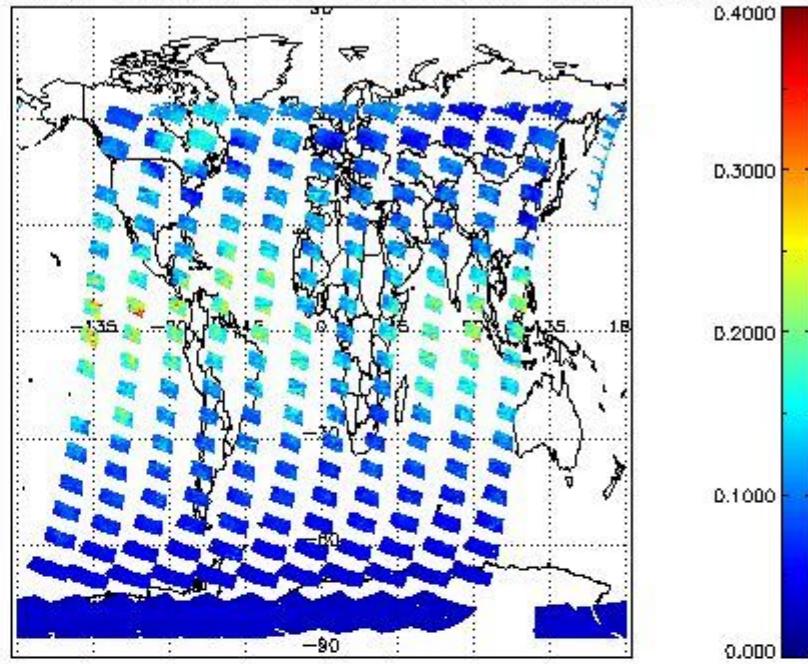
2.2.2.2 NO2 (UV1)



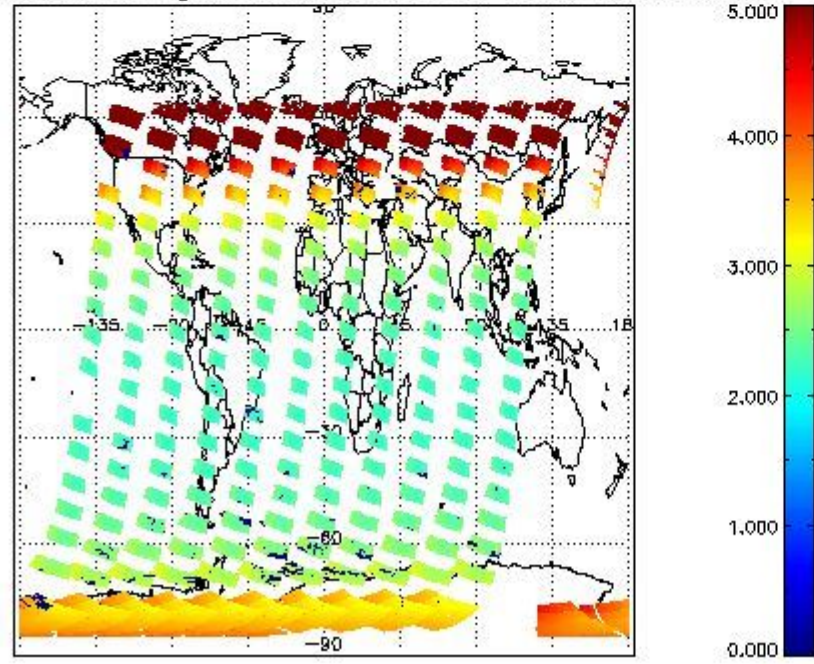
SCIOL2P\_NADUV1NO2\_vcd for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



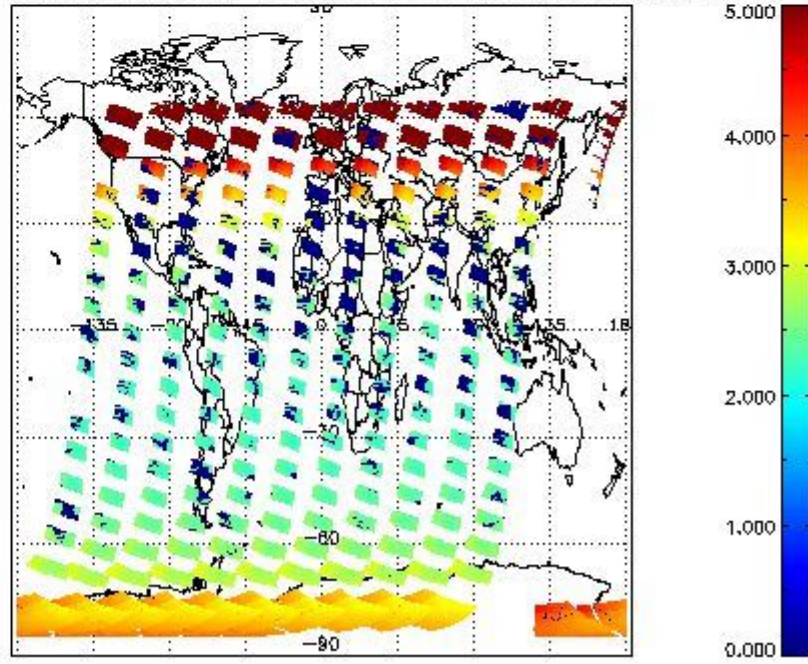
SCIOL2P\_NADUV1NO2\_vcd\_err for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



SCIOL2P\_NADUV1NO2\_amf\_gr for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

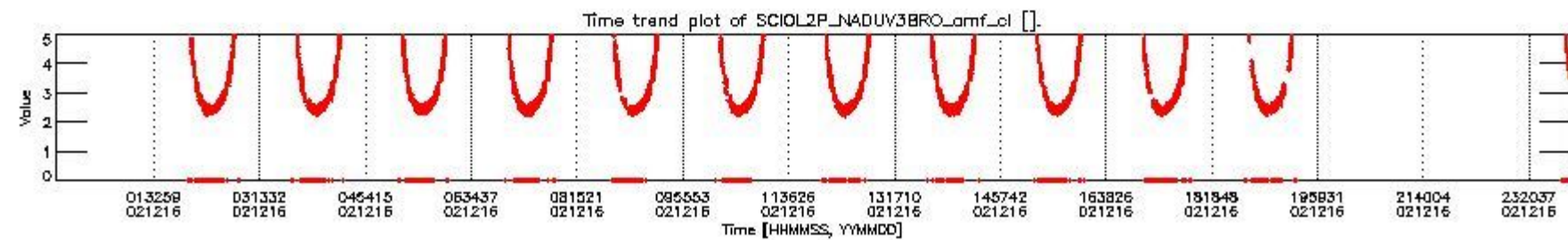
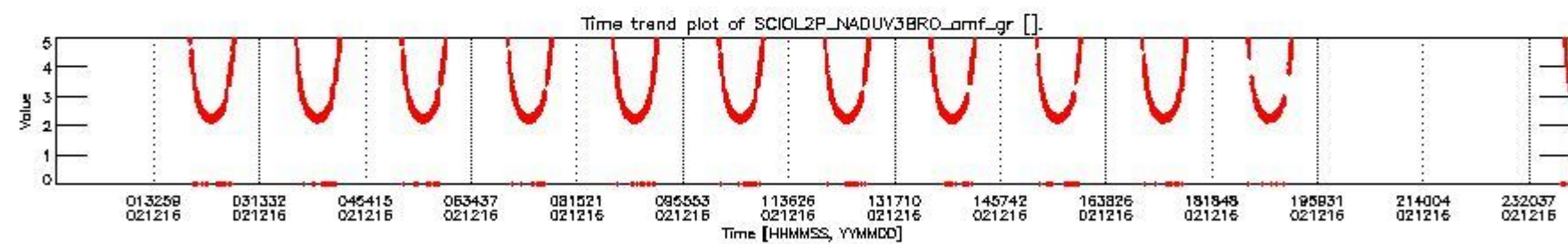
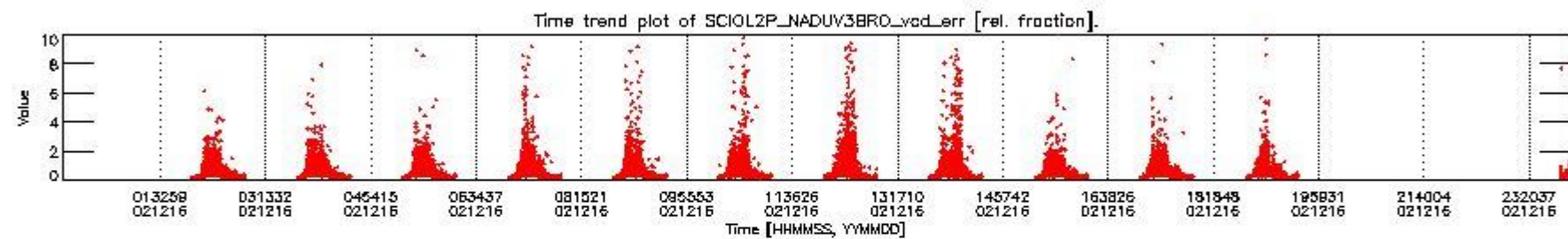
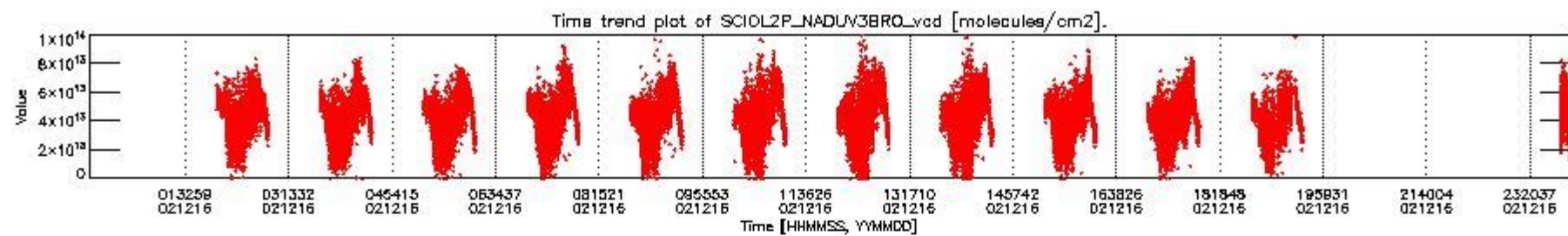


SCIOL2P\_NADUV1NO2\_amf\_cl for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

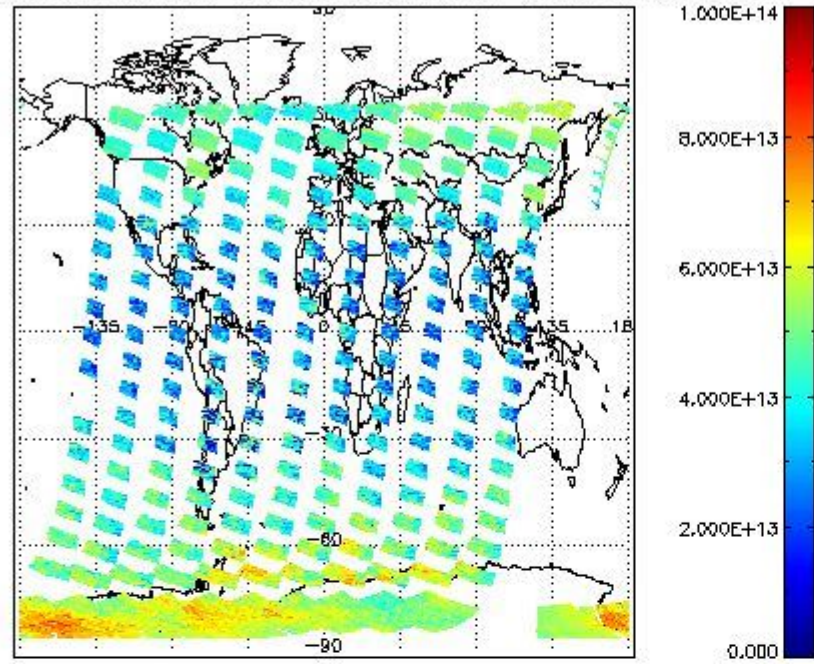


2.2.2.3 Bro (UV3)

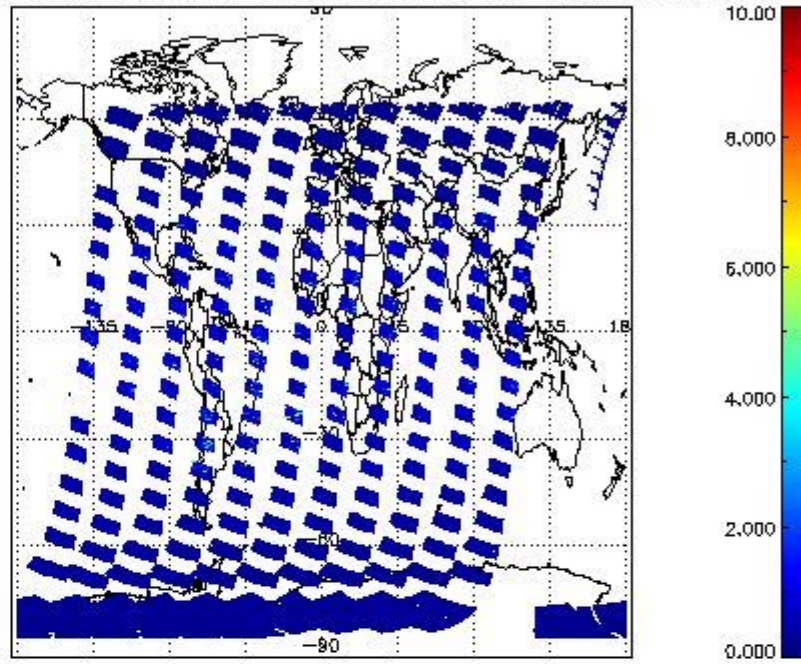




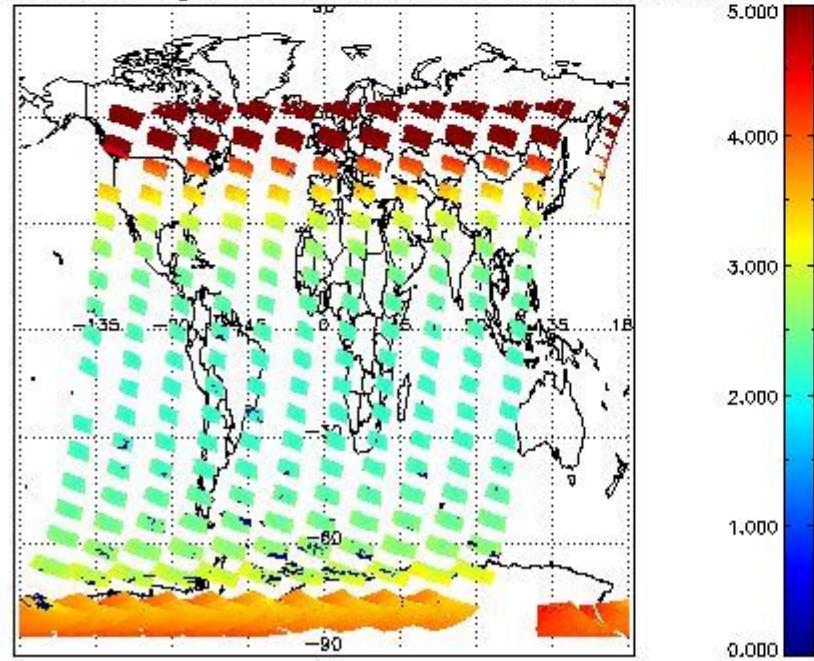
SCIOL2P\_NADUV3BRO\_vcd for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



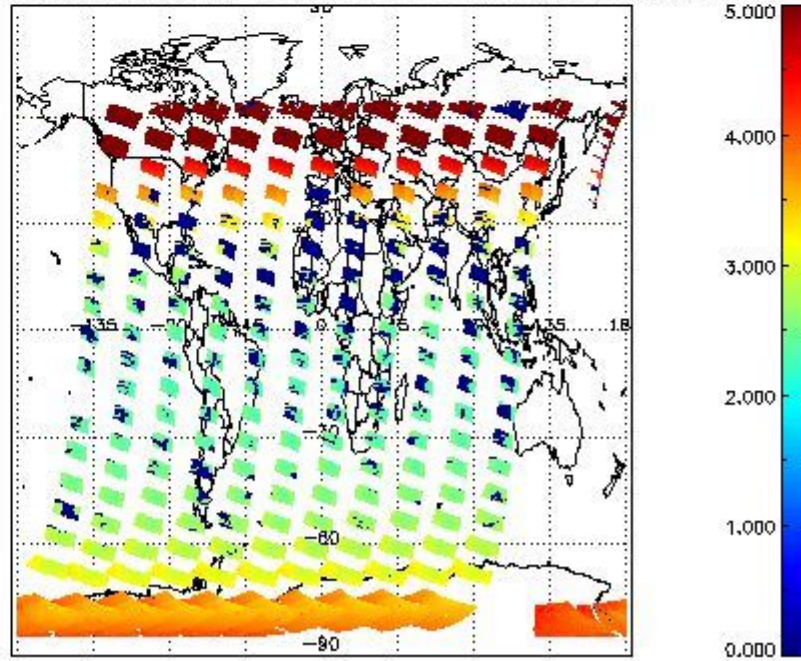
SCIOL2P\_NADUV3BRO\_vcd\_err for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



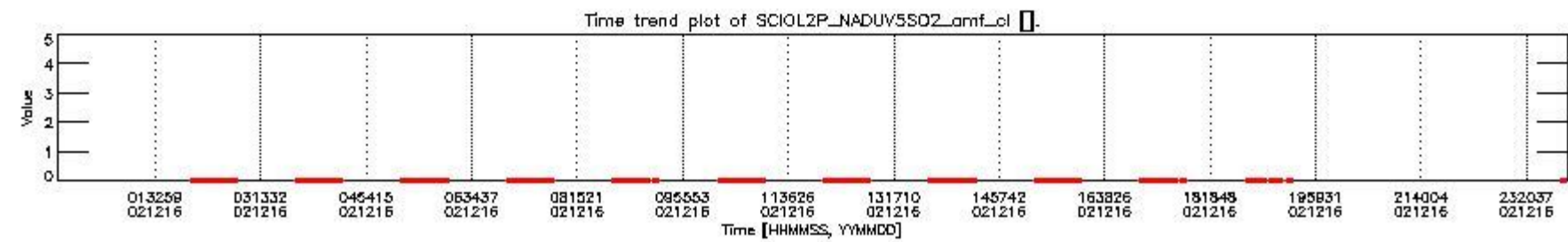
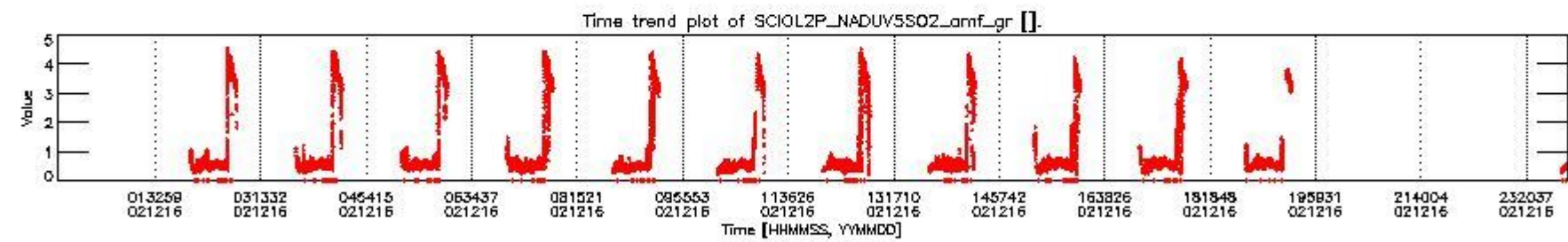
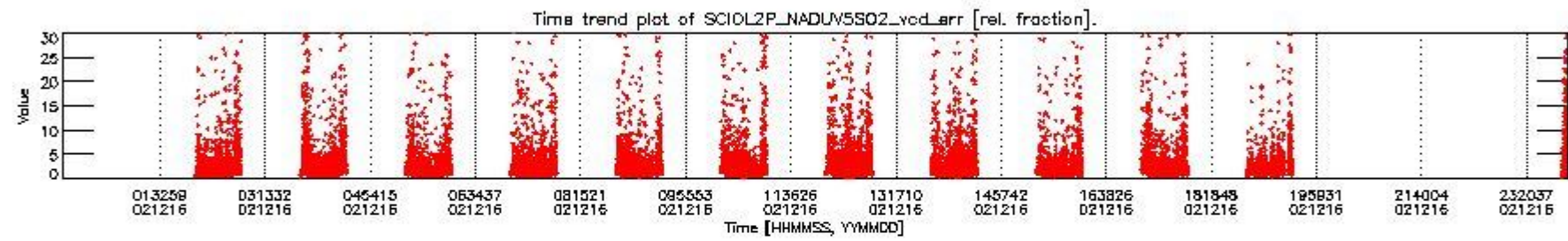
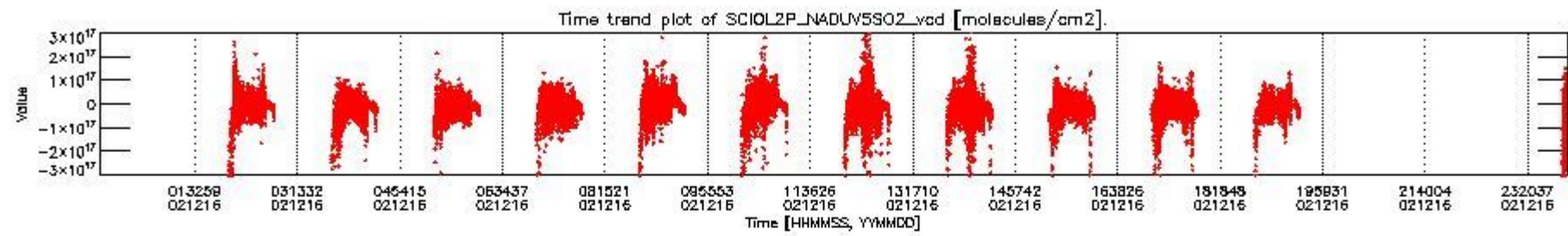
SCIOL2P\_NADUV3BRO\_amf\_gr for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



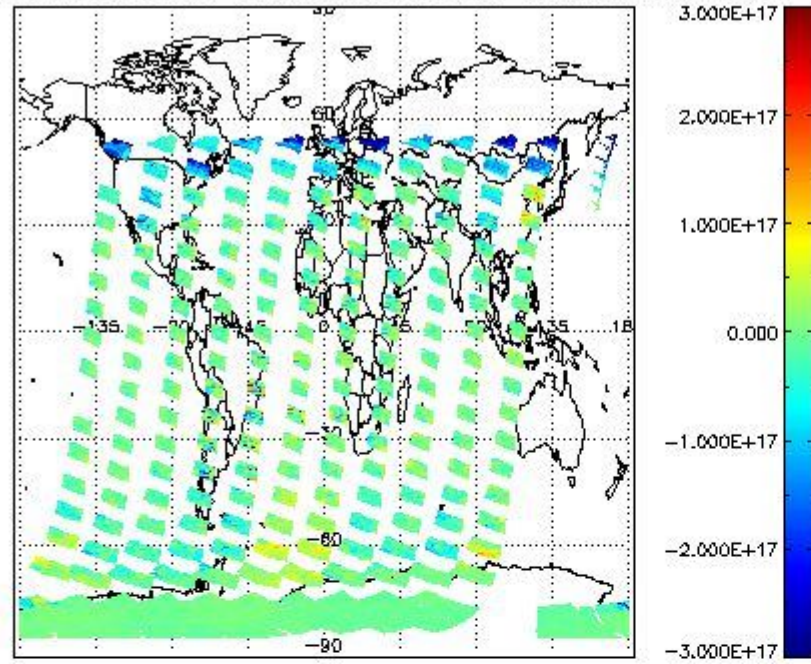
SCIOL2P\_NADUV3BRO\_amf\_cl for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



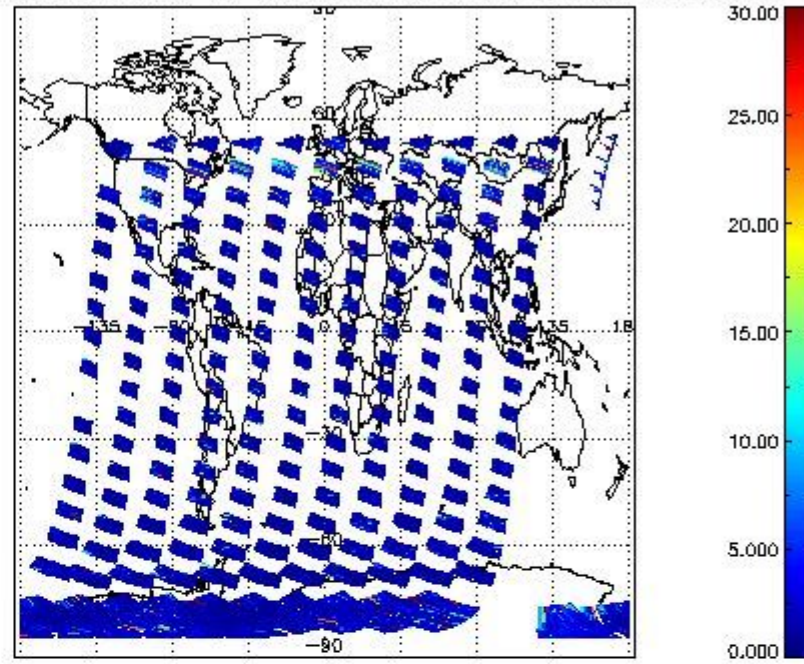
#### 2.2.2.4 SO2 (UV5)



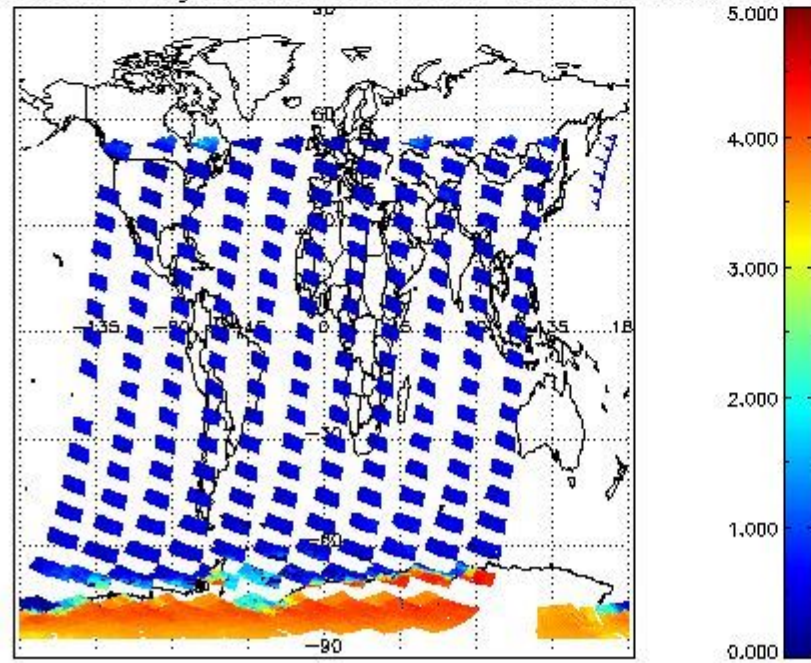
SCIOL2P\_NADUV5SO2\_vcd for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



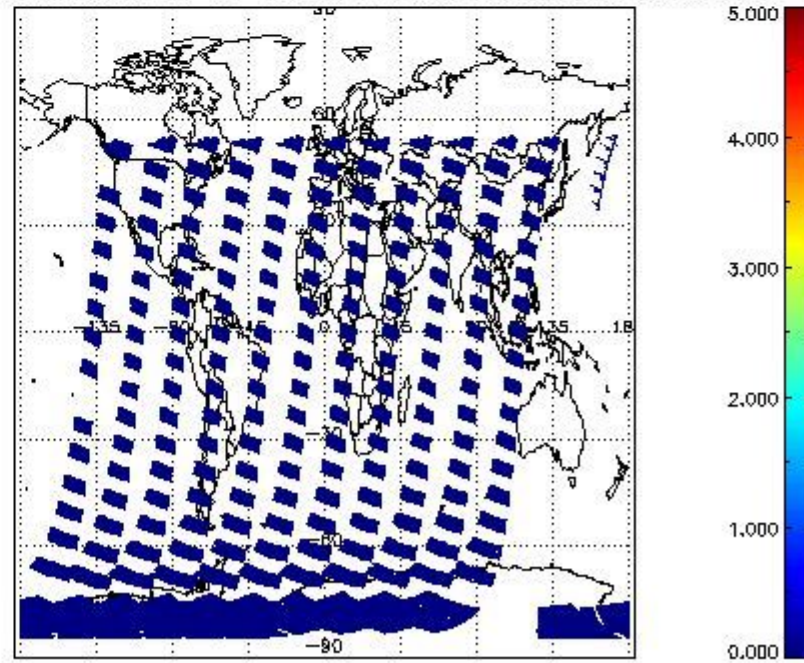
SCIOL2P\_NADUV5SO2\_vcd\_err for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



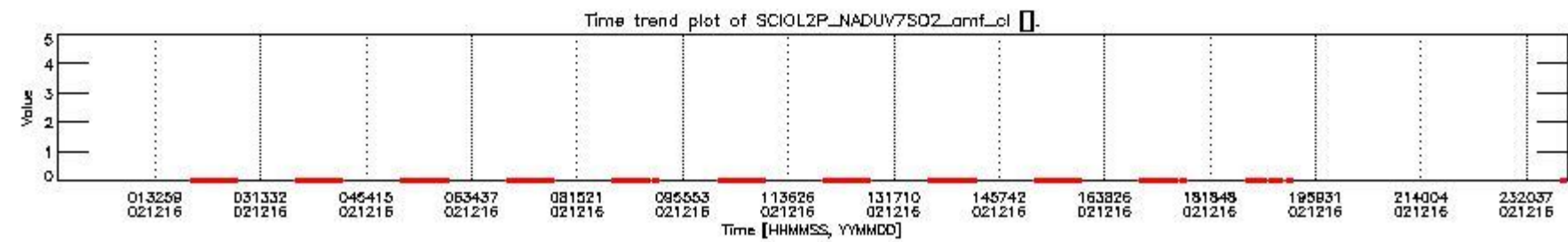
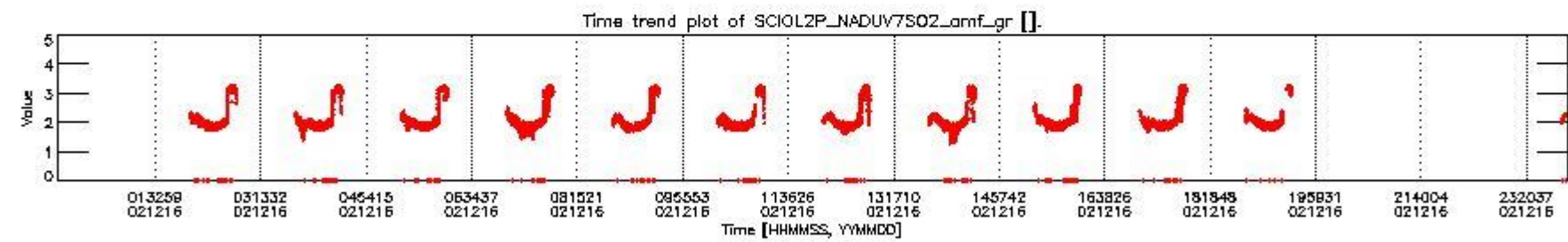
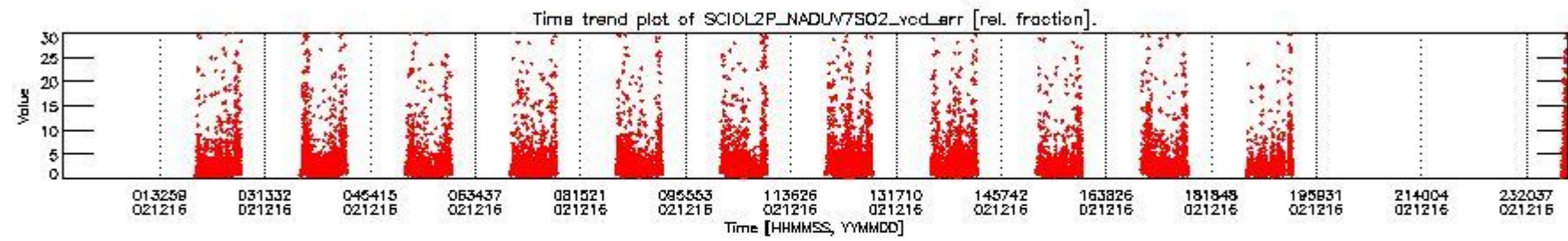
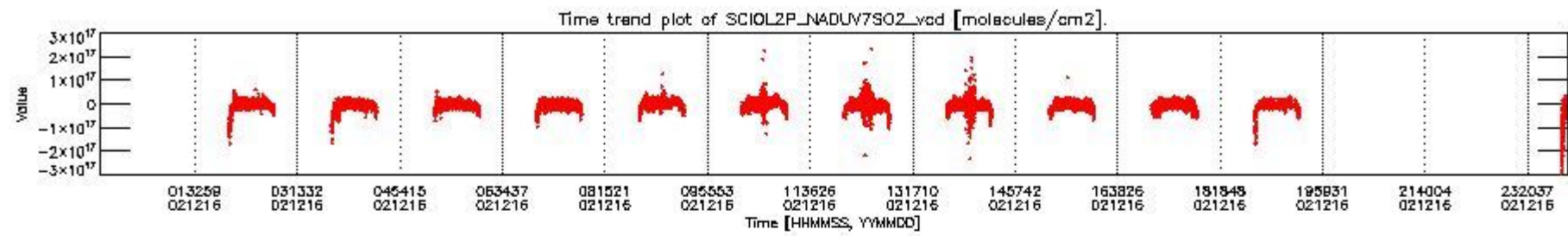
SCIOL2P\_NADUV5SO2\_amf\_gr for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



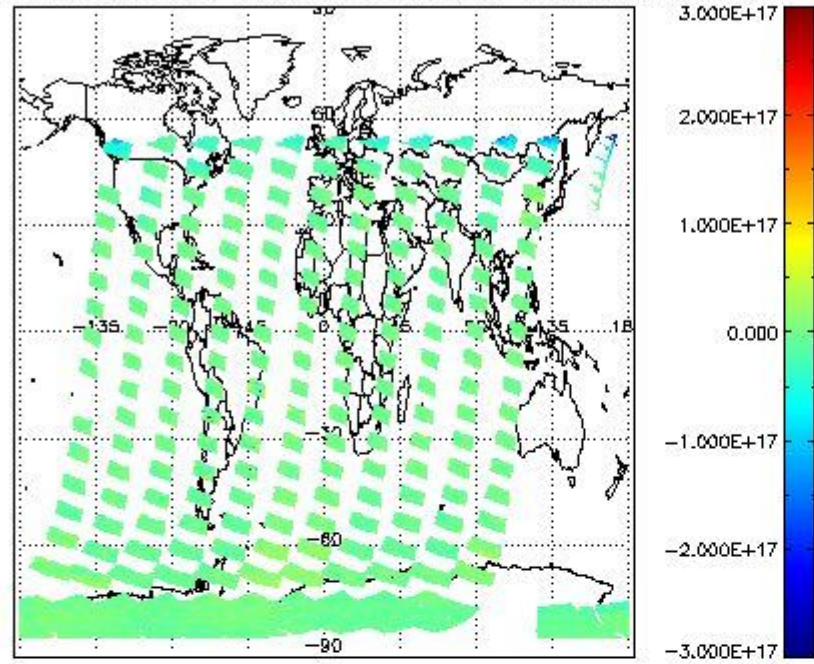
SCIOL2P\_NADUV5SO2\_amf\_cl for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



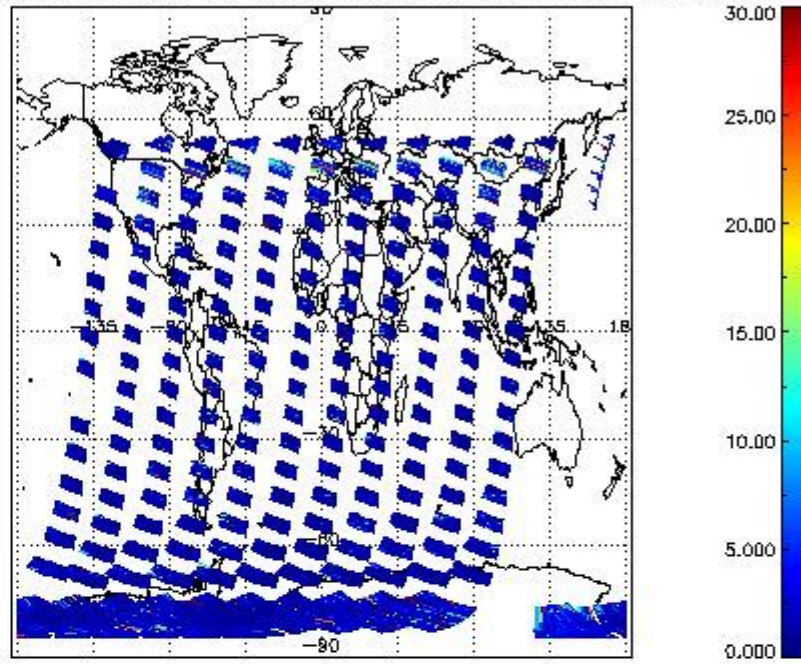
### 2.2.2.5 SO2 (UV7)



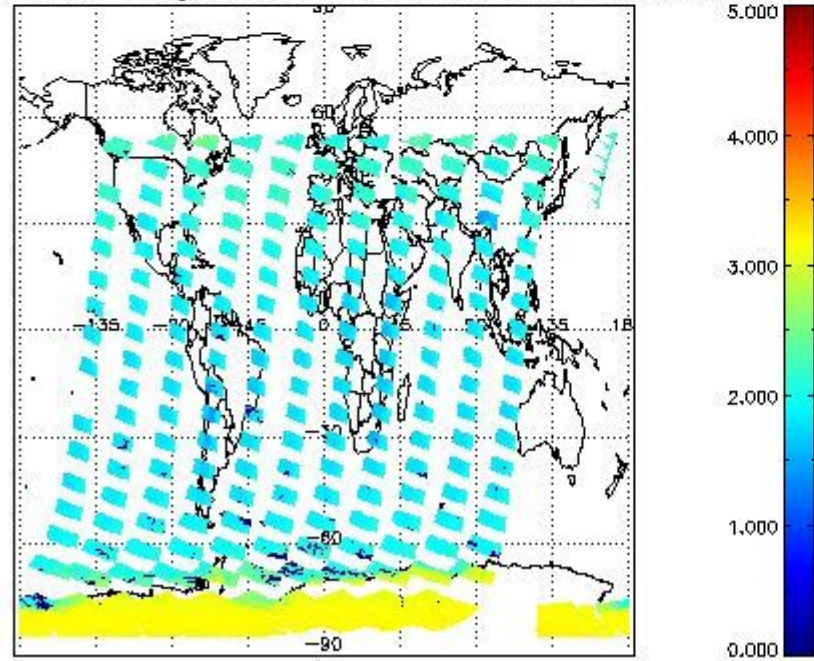
SCIOL2P\_NADUV7S02\_vcd for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



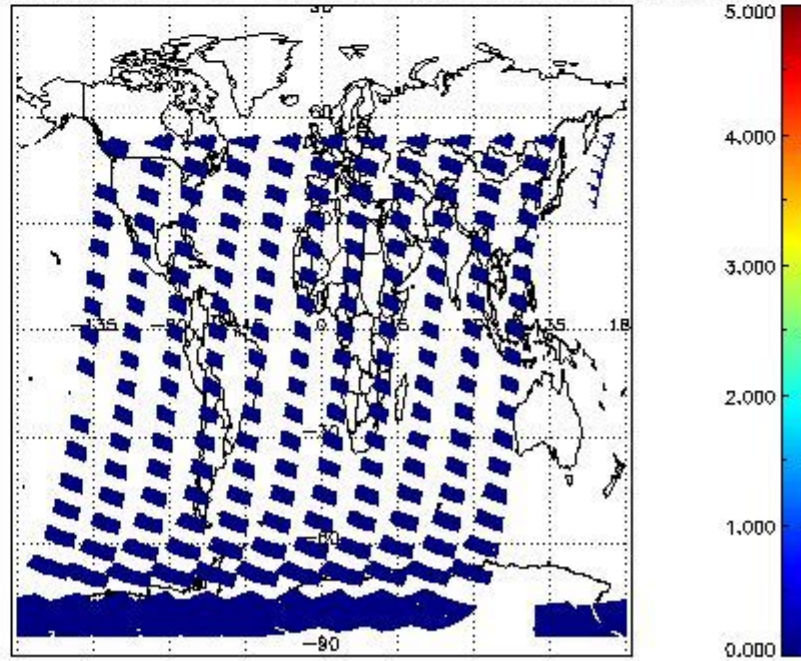
SCIOL2P\_NADUV7S02\_vcd\_err for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



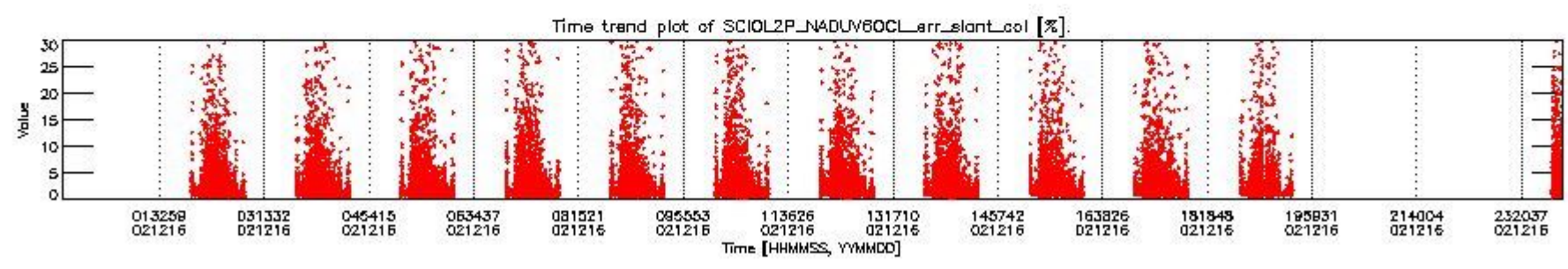
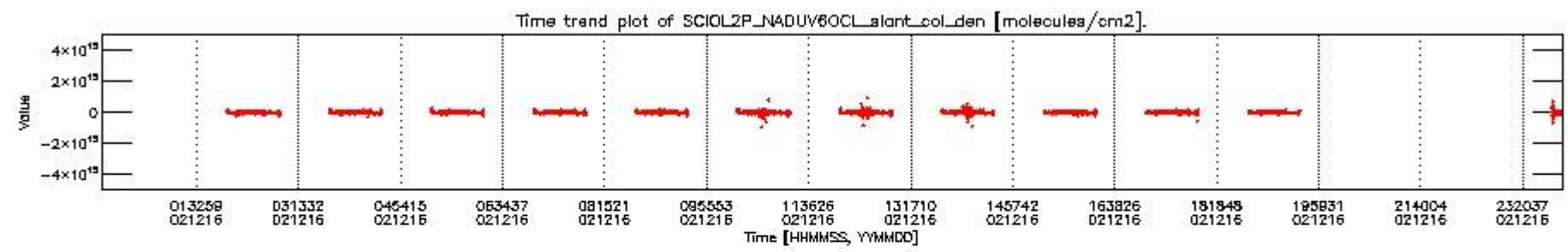
SCIOL2P\_NADUV7S02\_amf\_gr for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



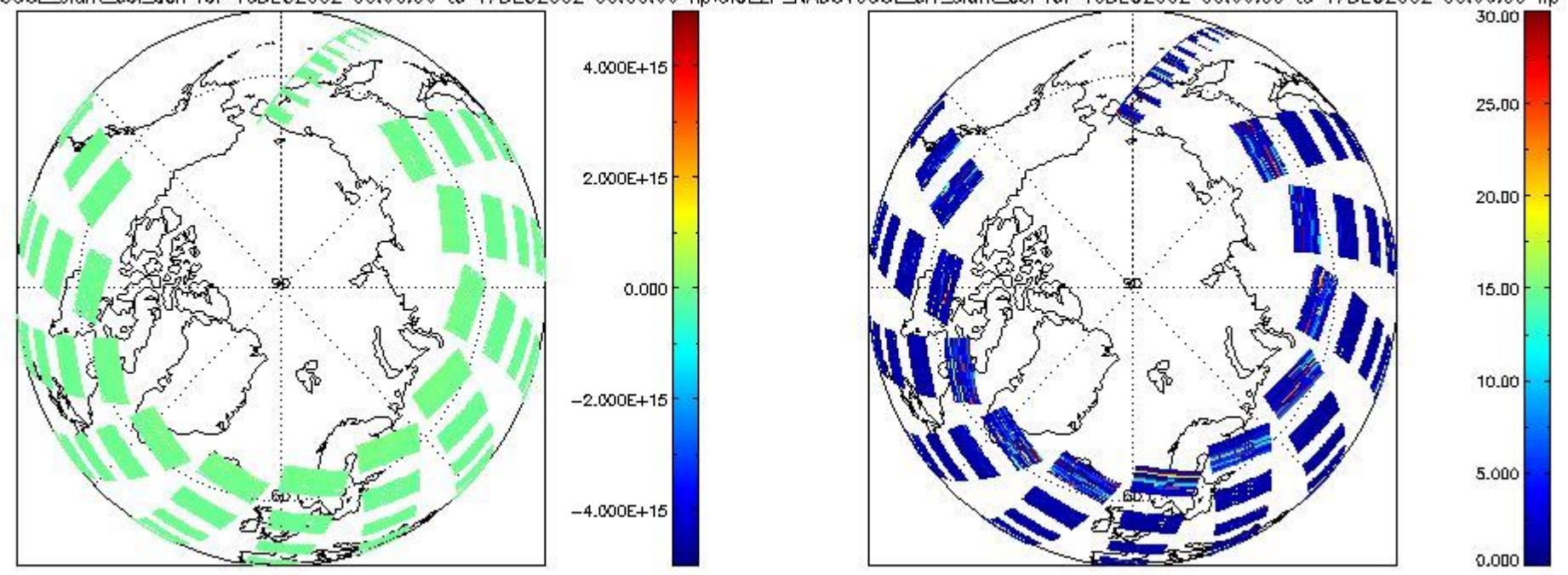
SCIOL2P\_NADUV7S02\_amf\_cl for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



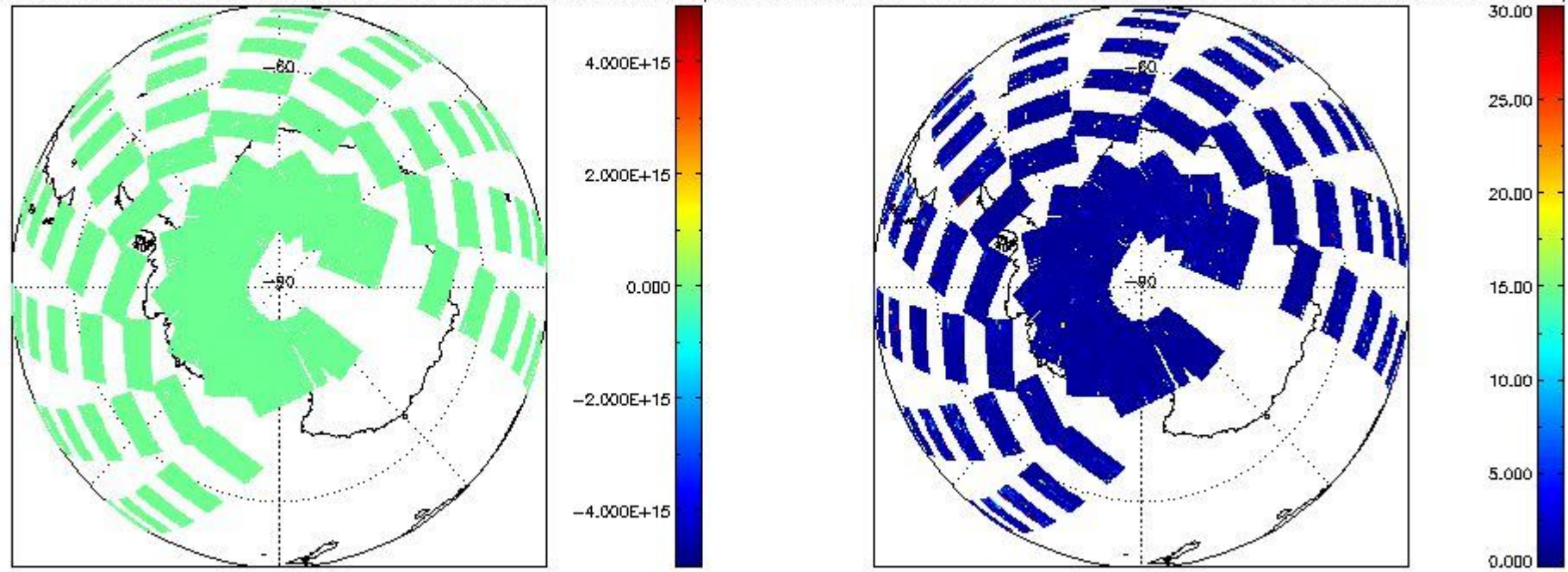
2.2.2.6 OCIO (UV6)



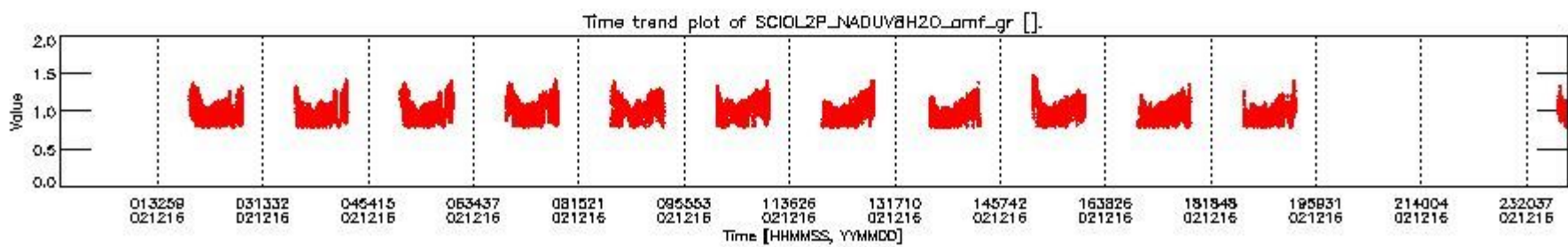
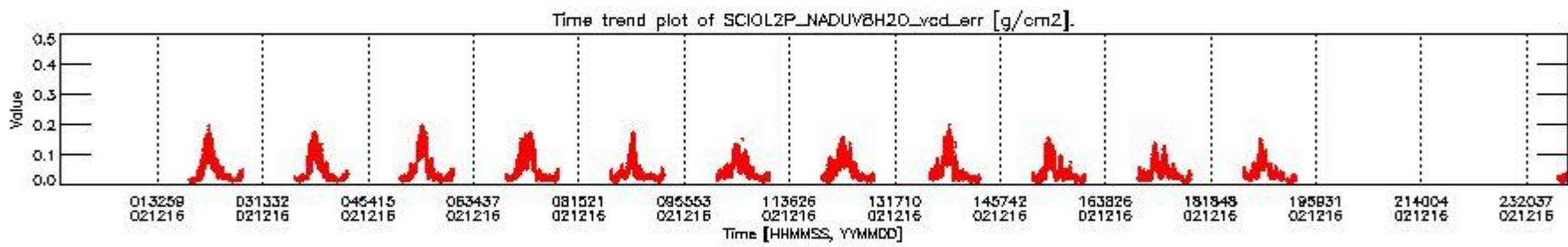
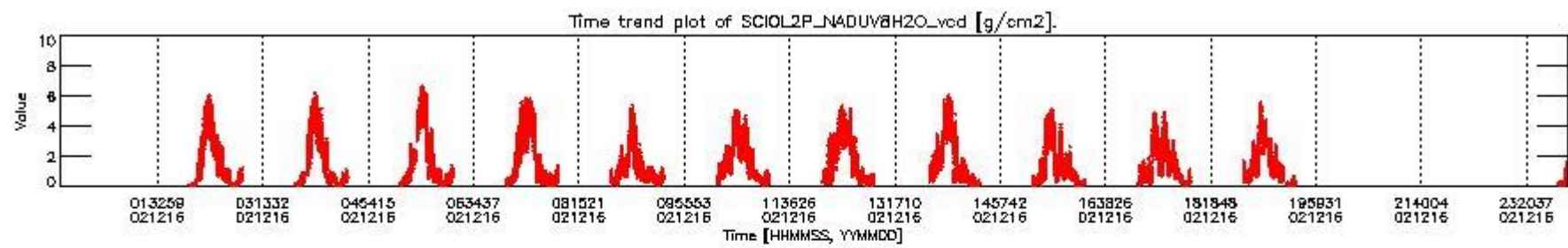
CIOL2P\_NADUV60CL\_slant\_col\_den for 16DEC2002 00:00:00 to 17DEC2002 00:00:00 np; CIOL2P\_NADUV60CL\_err\_slant\_col for 16DEC2002 00:00:00 to 17DEC2002 00:00:00 np



CIOL2P\_NADUV60CL\_slant\_col\_den for 16DEC2002 00:00:00 to 17DEC2002 00:00:00 spICIOL2P\_NADUV60CL\_err\_slant\_col for 16DEC2002 00:00:00 to 17DEC2002 00:00:00 sp

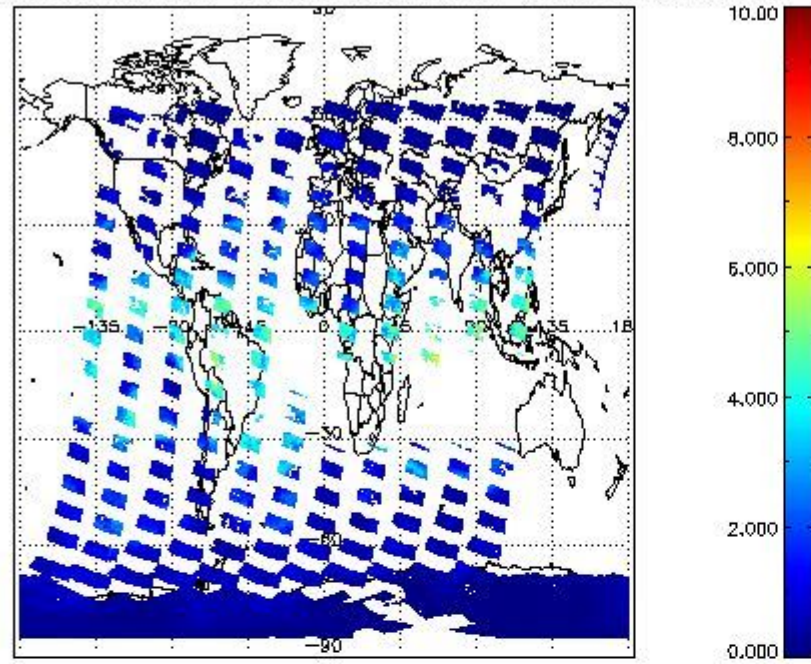


### 2.2.2.7 H2O (UV8)

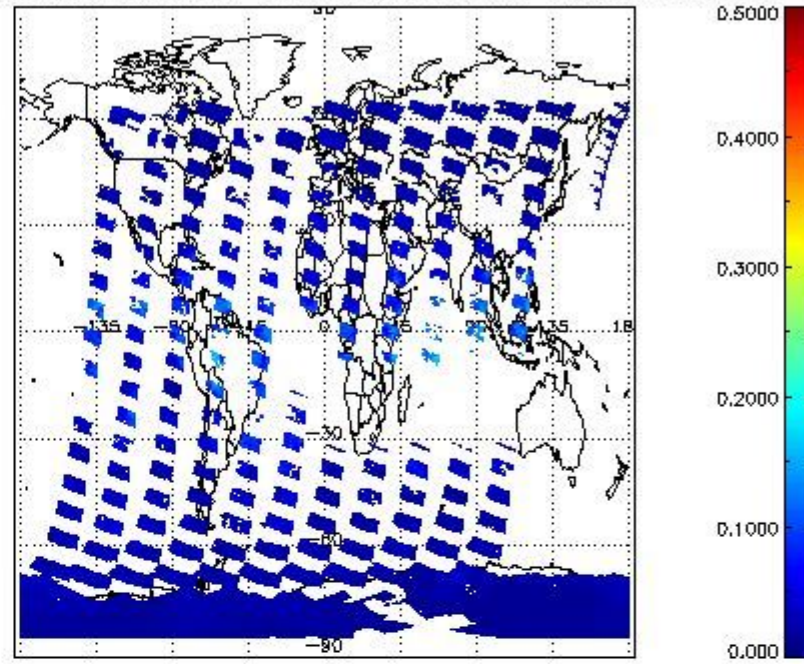




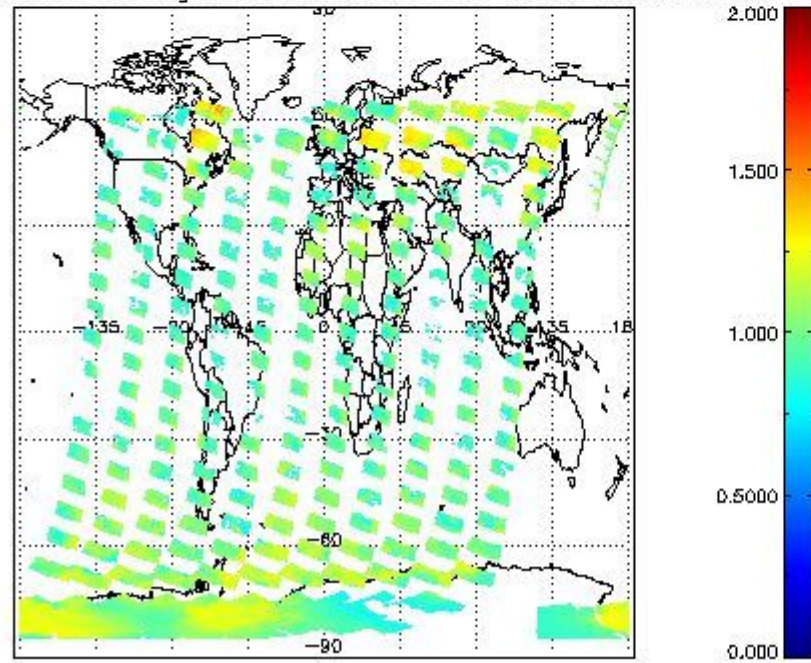
SCIOL2P\_NADUV8H2O\_vcd for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

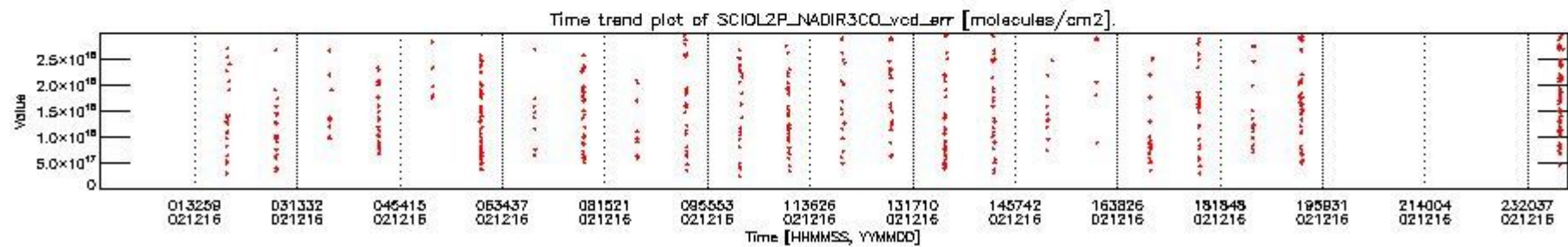
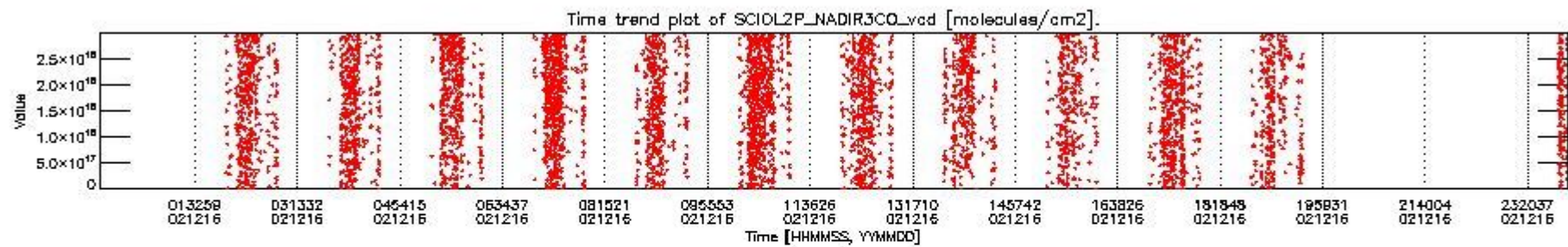


SCIOL2P\_NADUV8H2O\_vcd\_err for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

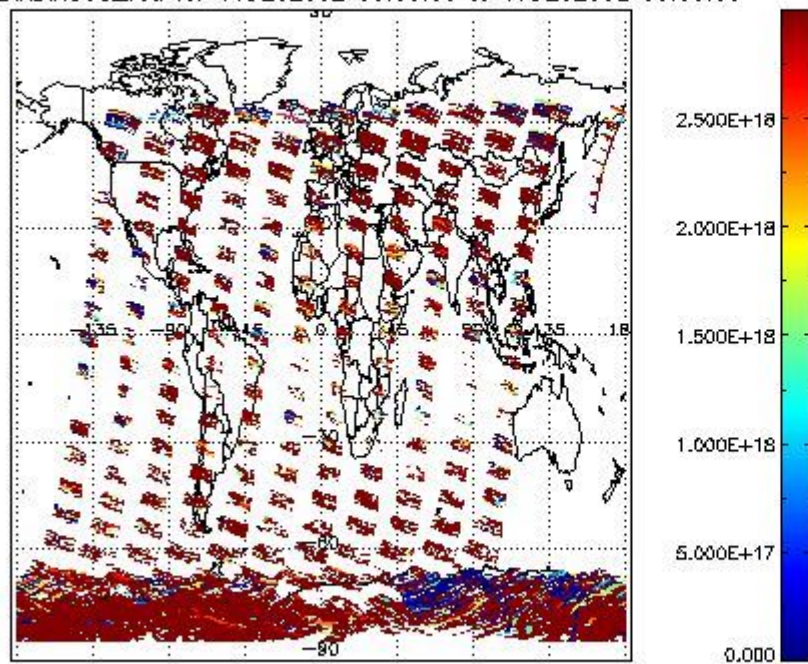


SCIOL2P\_NADUV8H2O\_amf\_gr for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

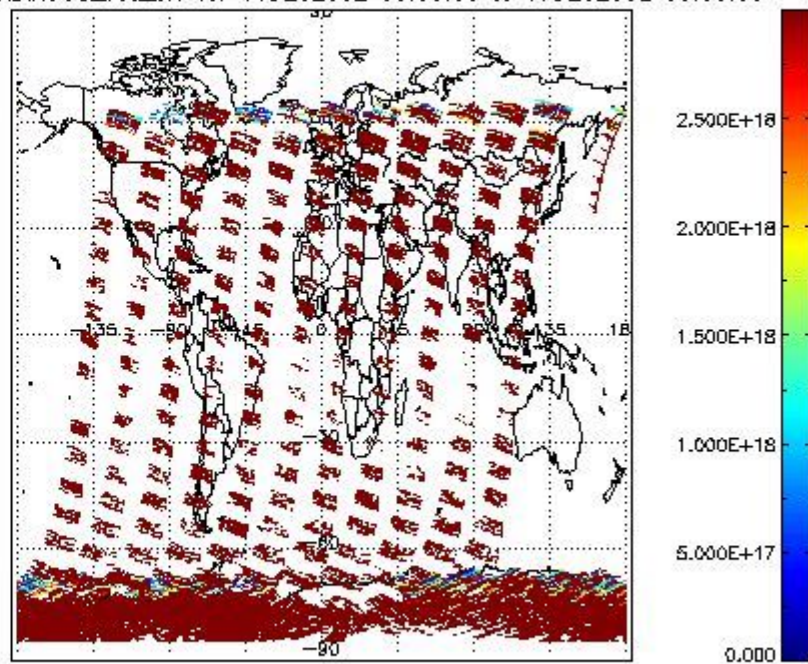




SCIDL2P\_NADIR3CO\_vcd for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



SCIDL2P\_NADIR3CO\_vcd\_err for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



### 2.2.3 Limb

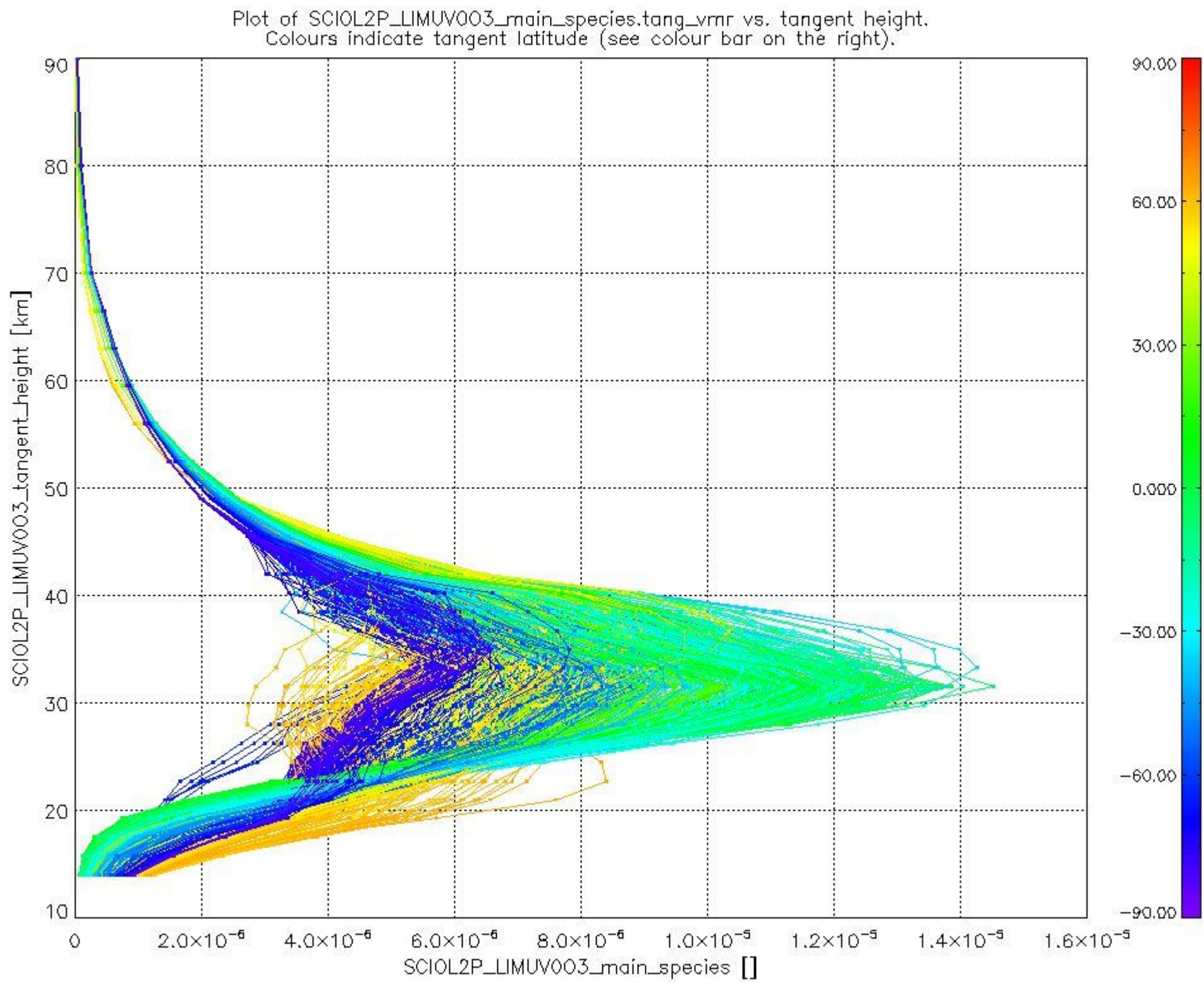
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

The following data items are currently included into this section:

Number	Data item ID
0	SCIDL2P_LIMUV003_main_species
1	SCIDL2P_LIMUV1NO2_main_species
2	SCIDL2P_LIMUV3BRO_main_species

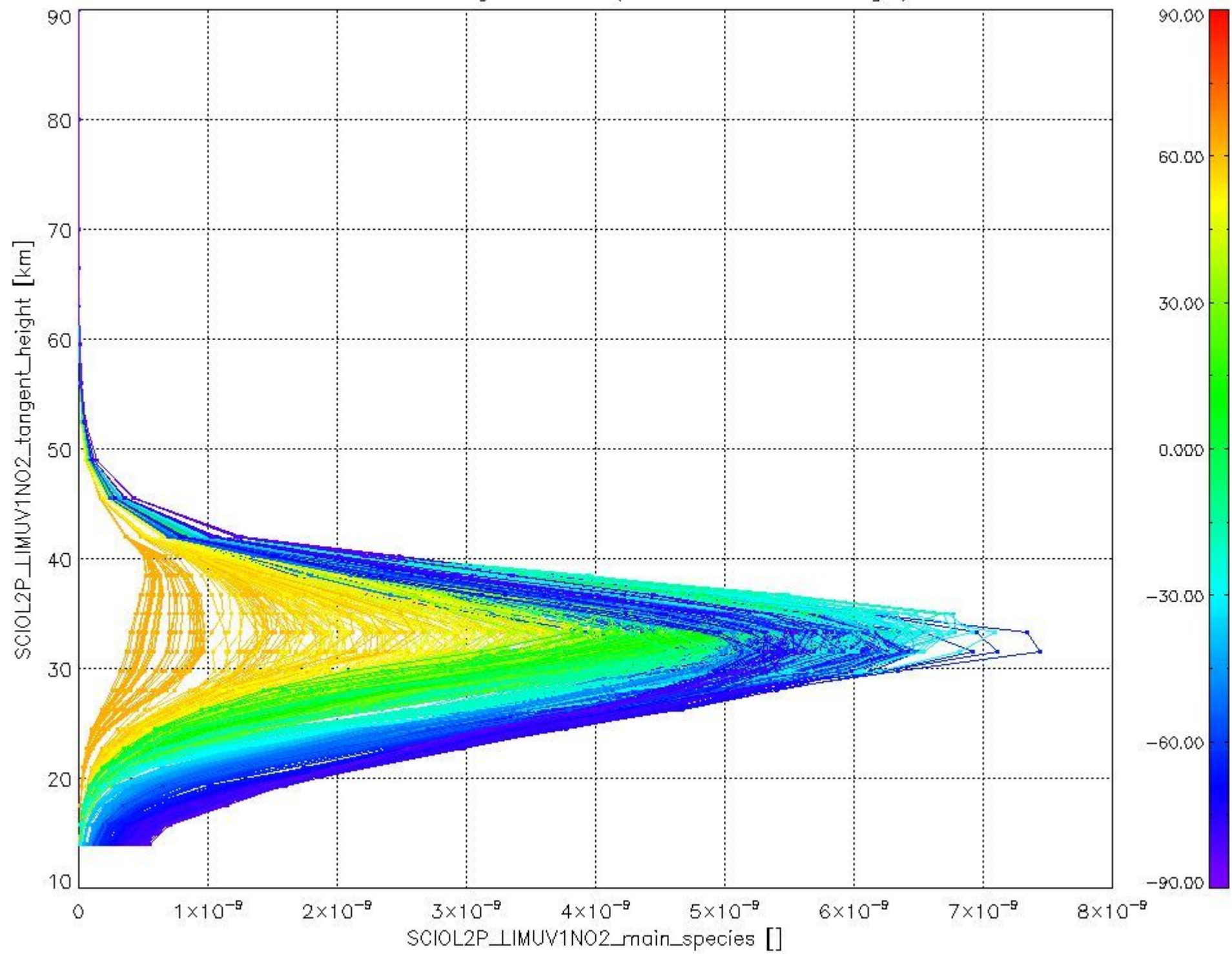
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



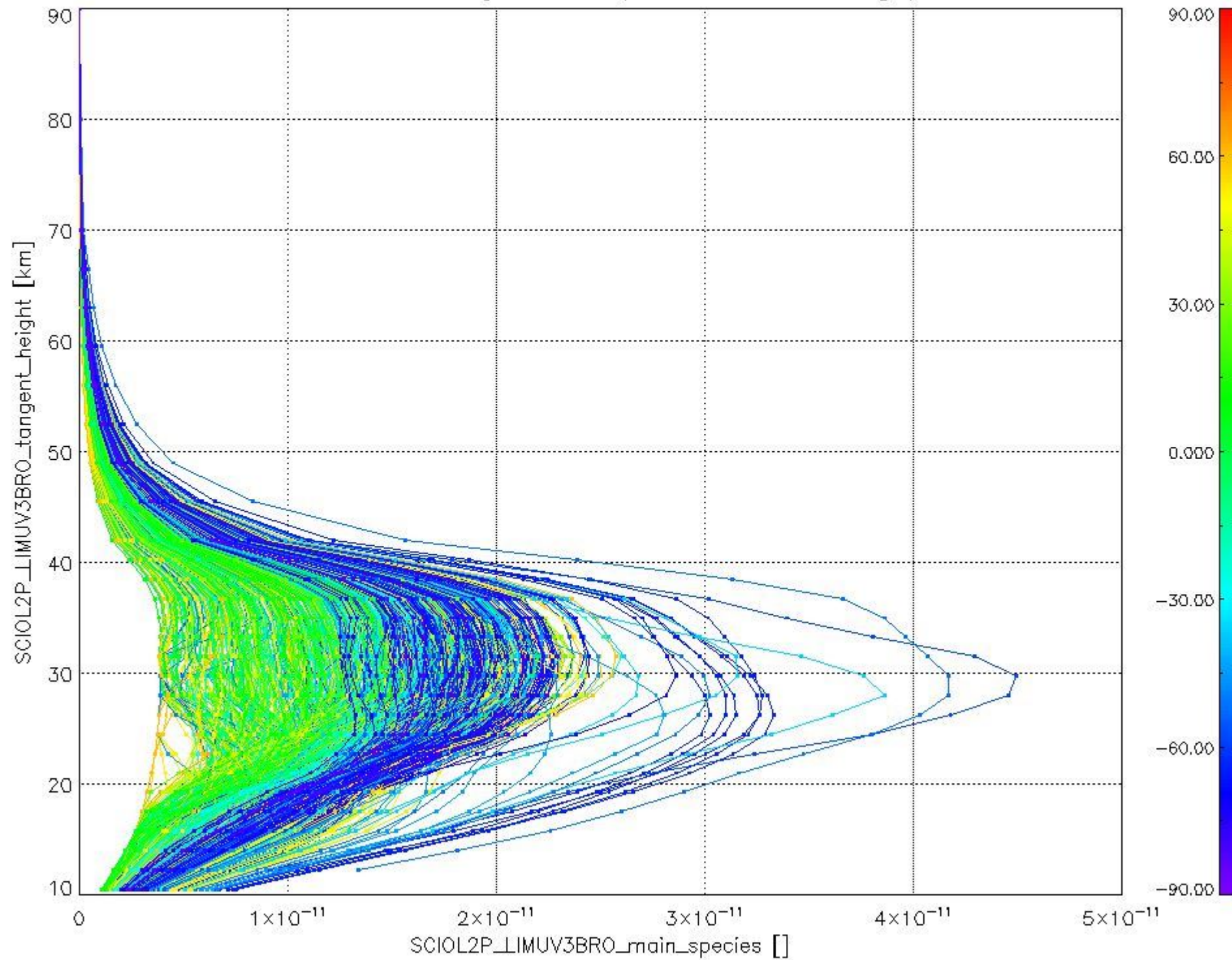
2.2.3.2 NO2 (UV1)

Plot of SCIO2P\_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).

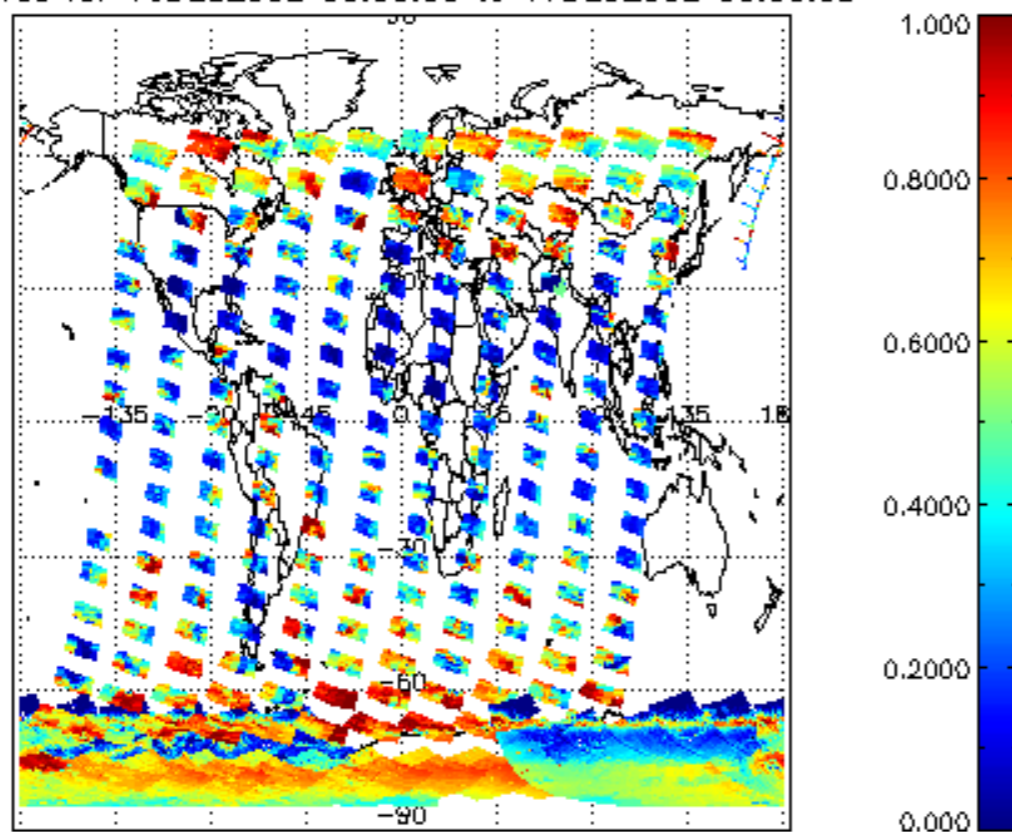


### 2.3 ADF monitoring

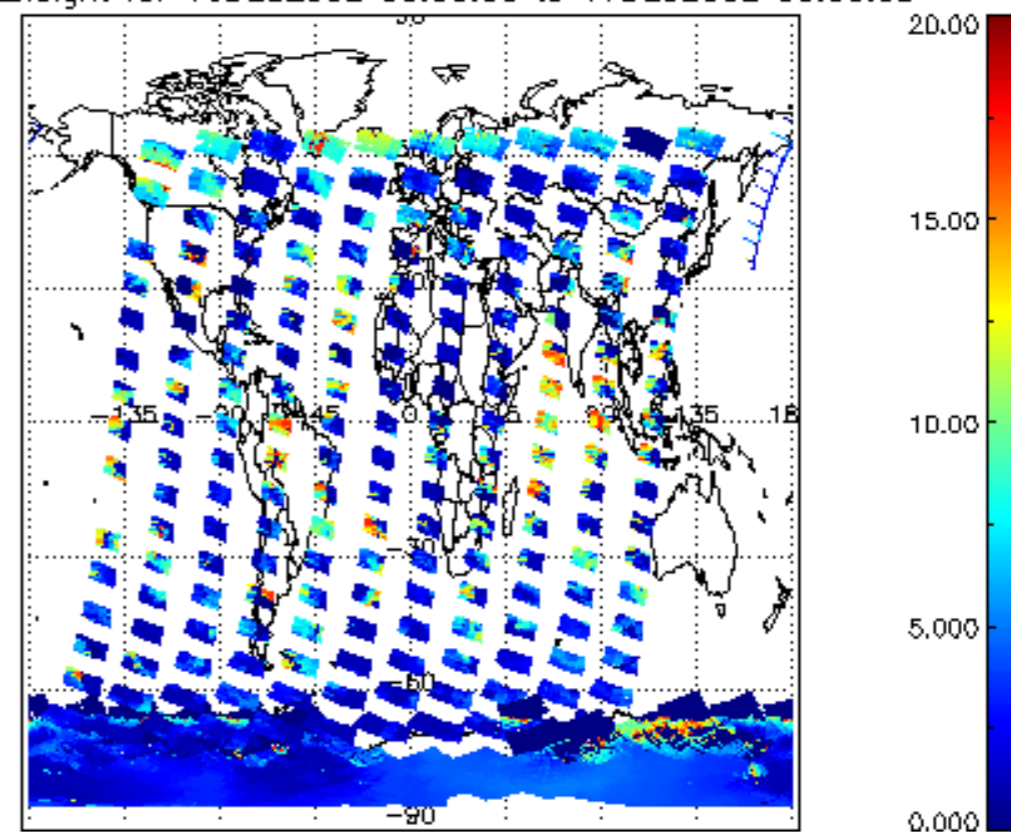
Number	ADF
	<b>IN_ (INITIALISATION_FILE)</b>
0	SCI_IN_AXNPDE20110201_120000_20020301_000000_20991231_235959
	<b>ECF (ECMWF_FILE)</b>
1	NOT USED
	<b>MF1 (M_FACTOR_FILE)</b>
2	SCI_MF1_AXNIEC20100218_151730_20021215_151834_20021217_151834
3	SCI_MF1_AXNIEC20100218_151832_20021216_162733_20021218_162733



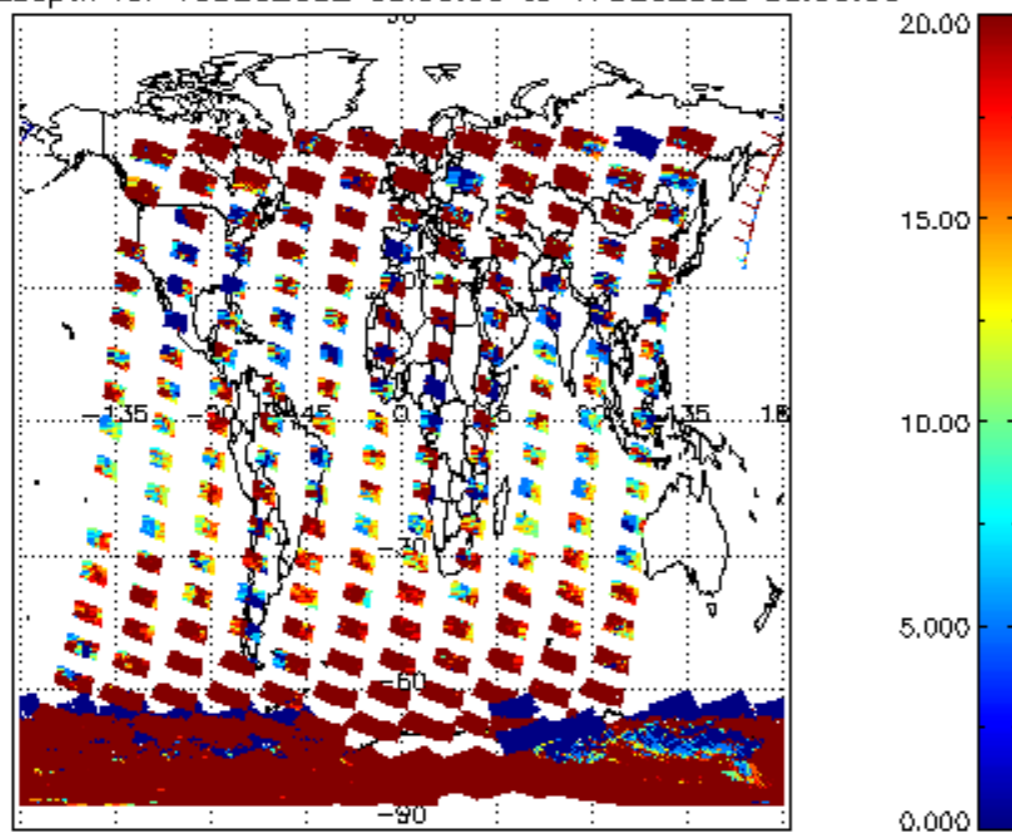
cl\_frac for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



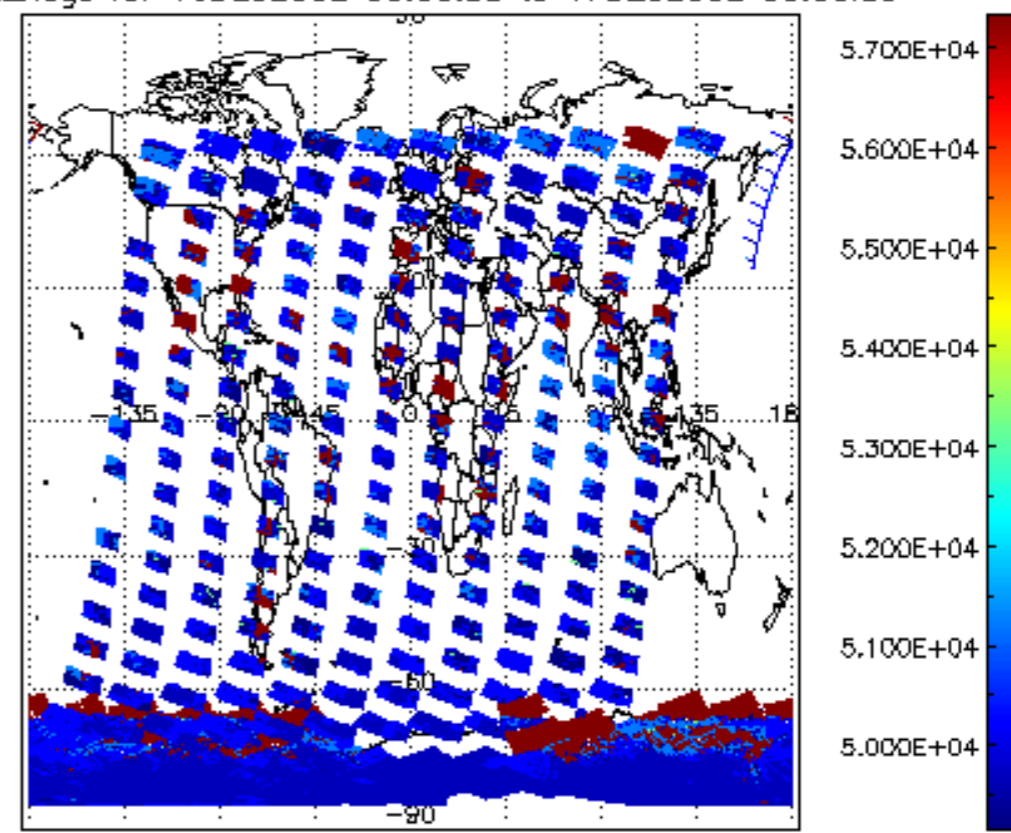
cl\_top\_height for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

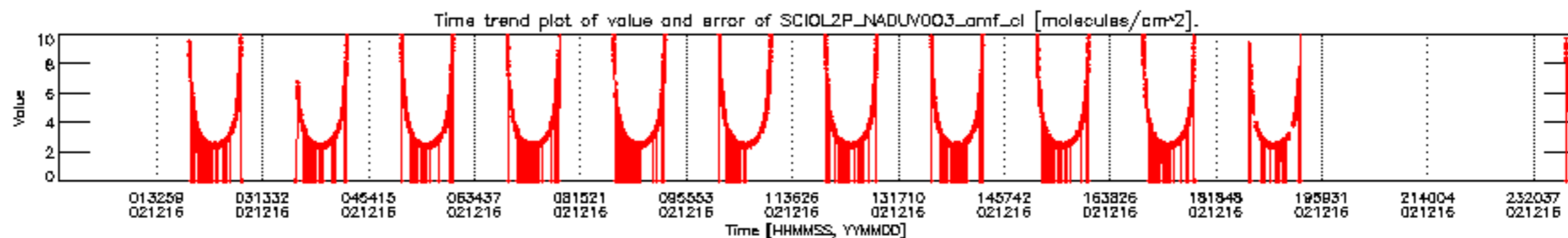
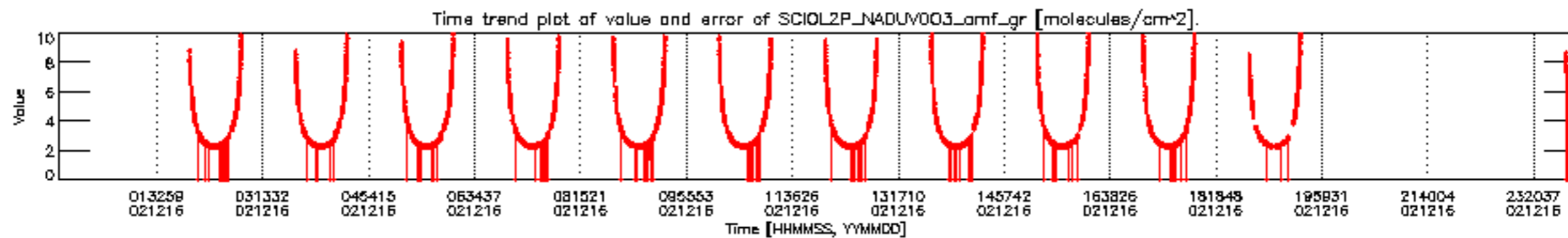
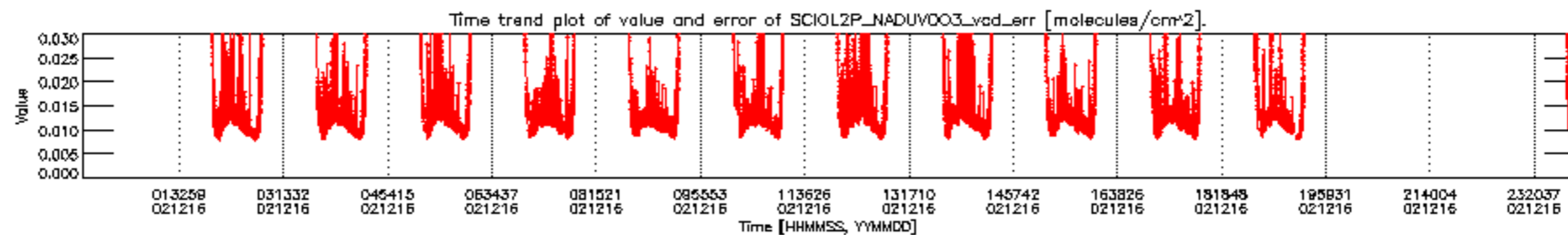
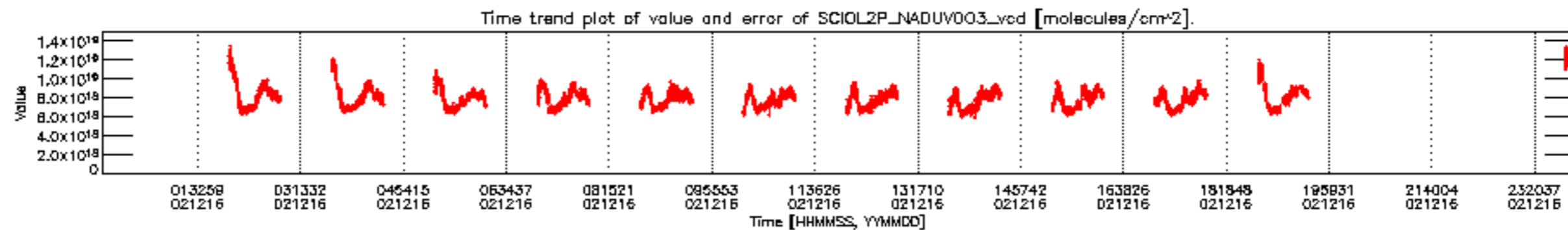


cl\_opt\_depth for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



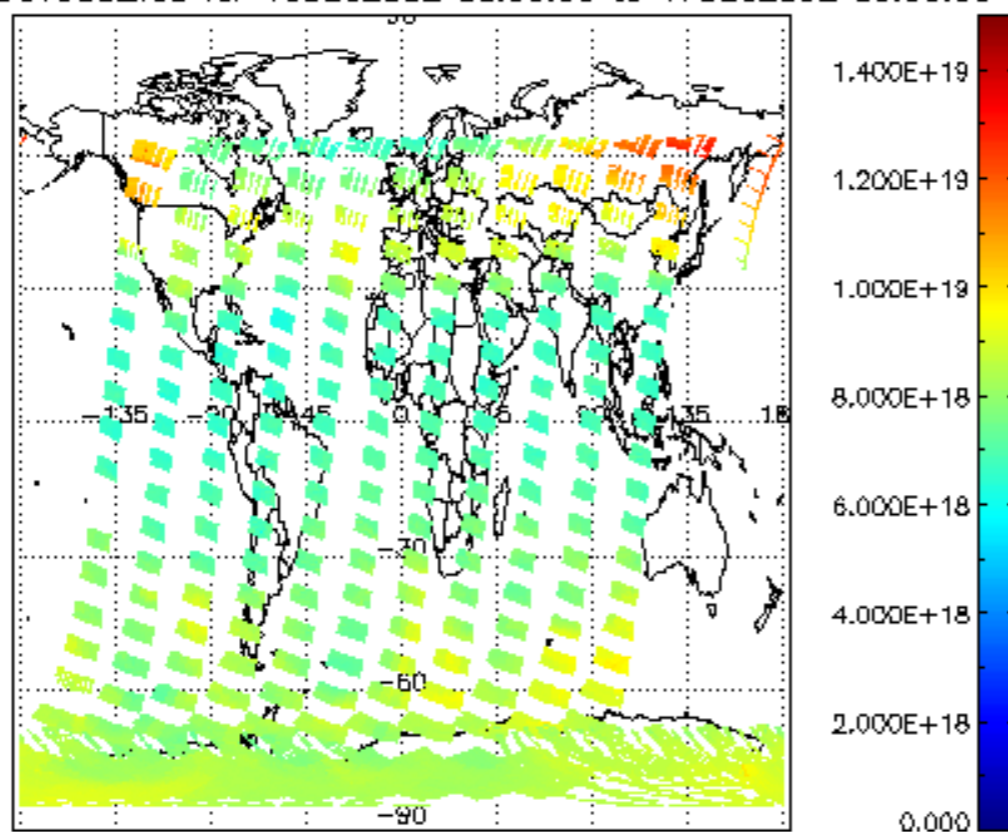
cloud\_flags for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



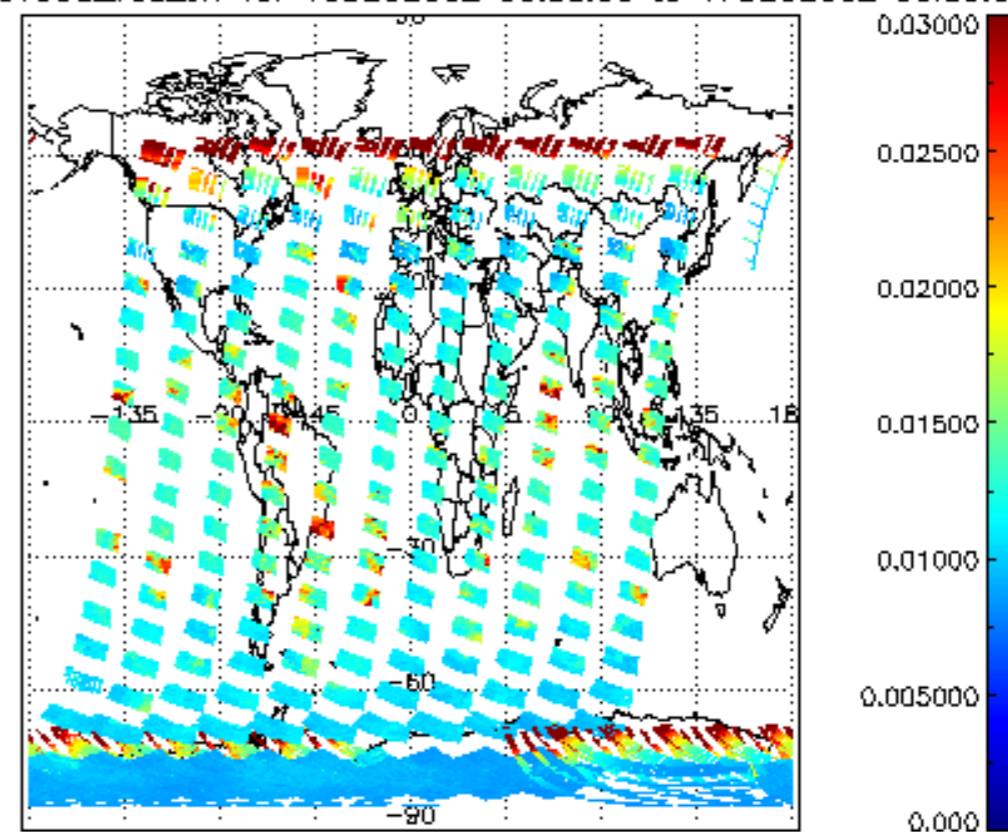




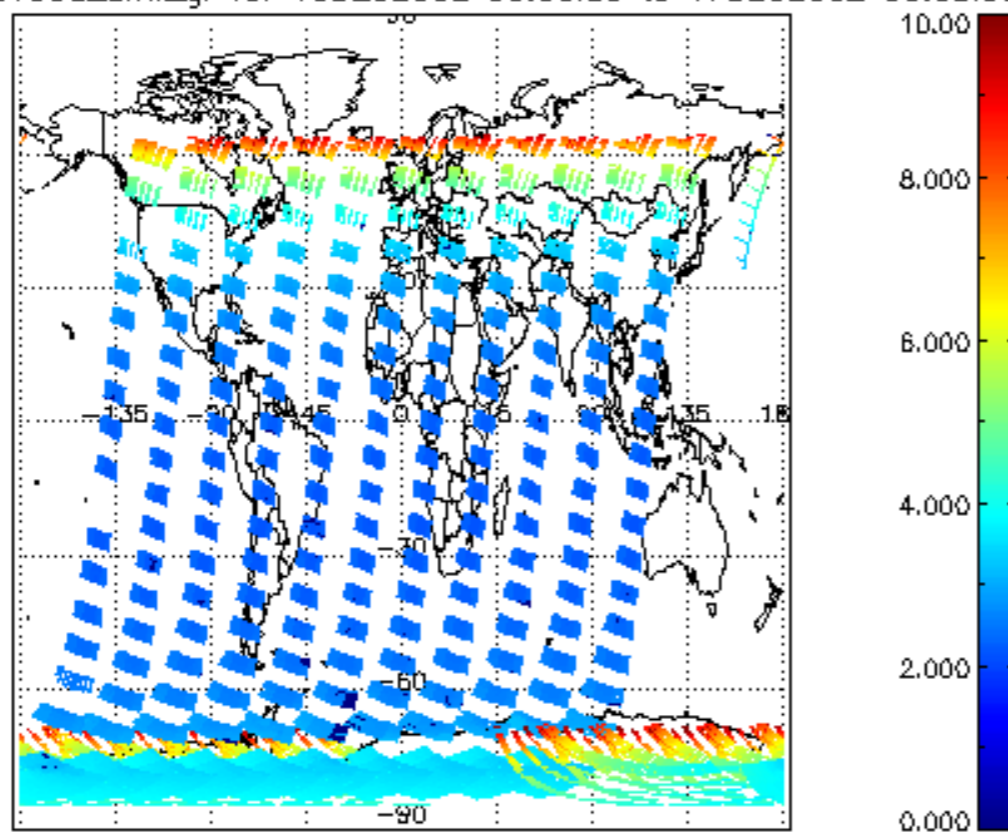
SCIOL2P\_NADUV003\_vcd for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



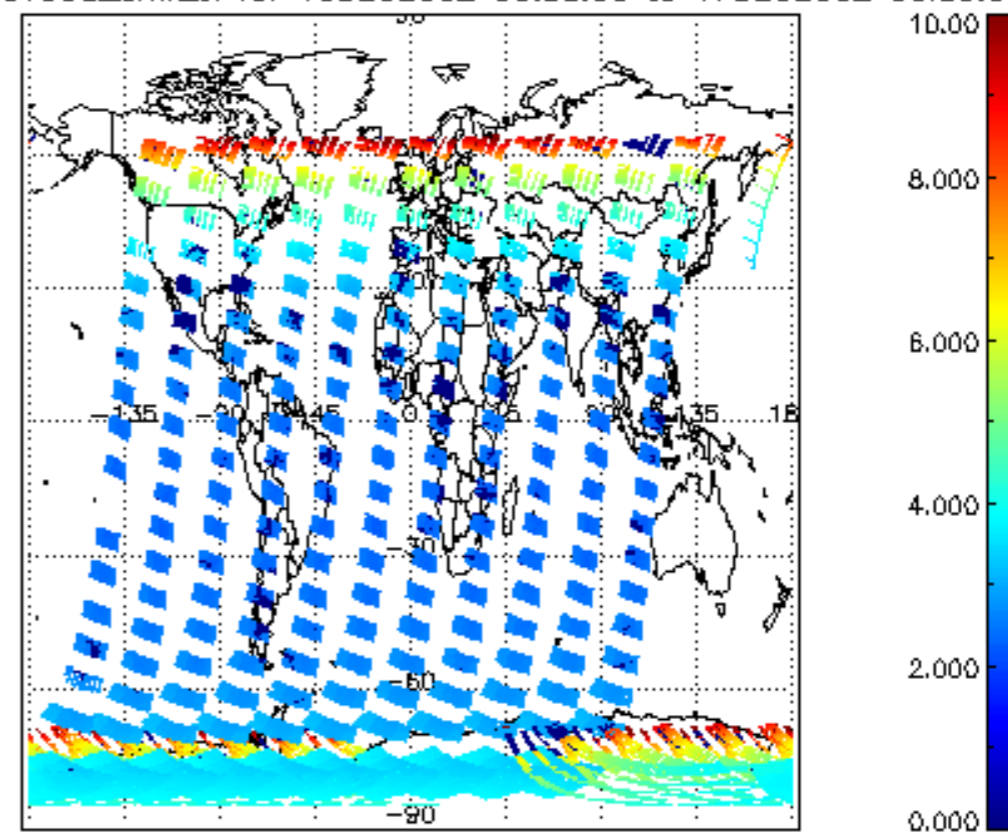
SCIOL2P\_NADUV003\_vcd\_err for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

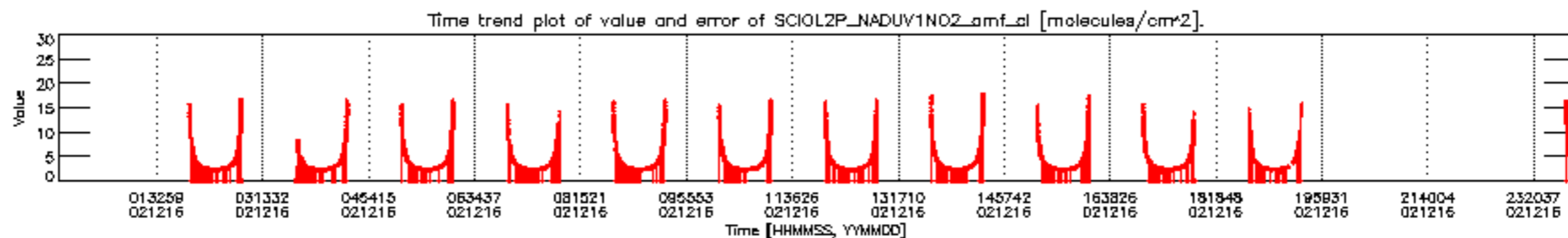
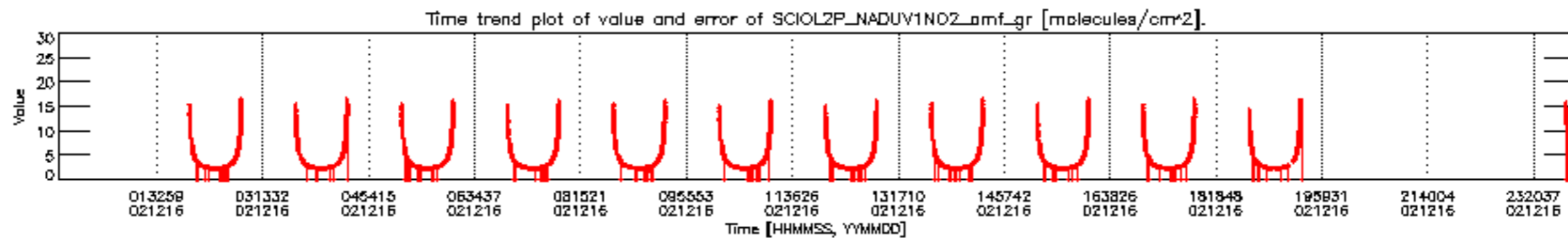
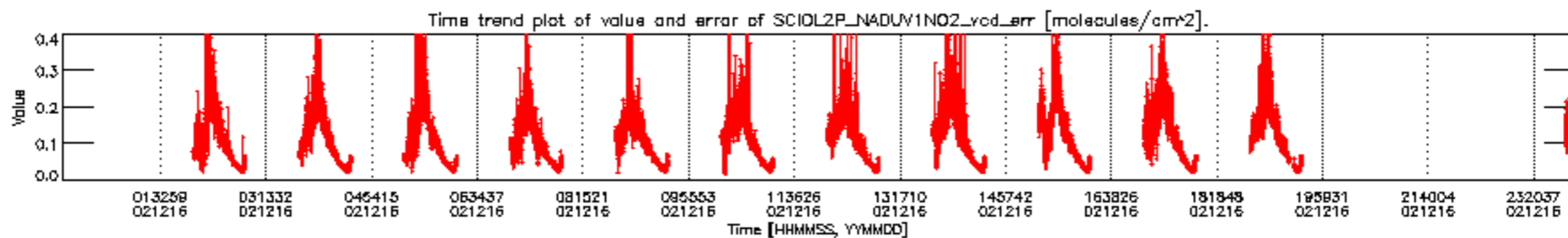
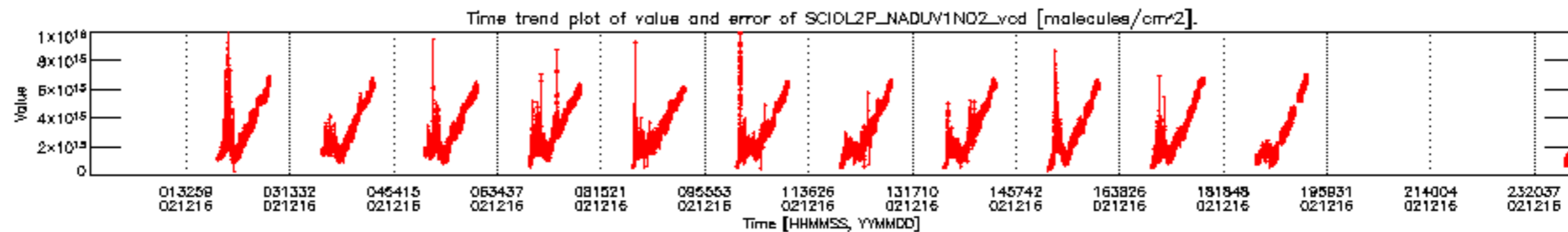


SCIOL2P\_NADUV003\_amf\_gr for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

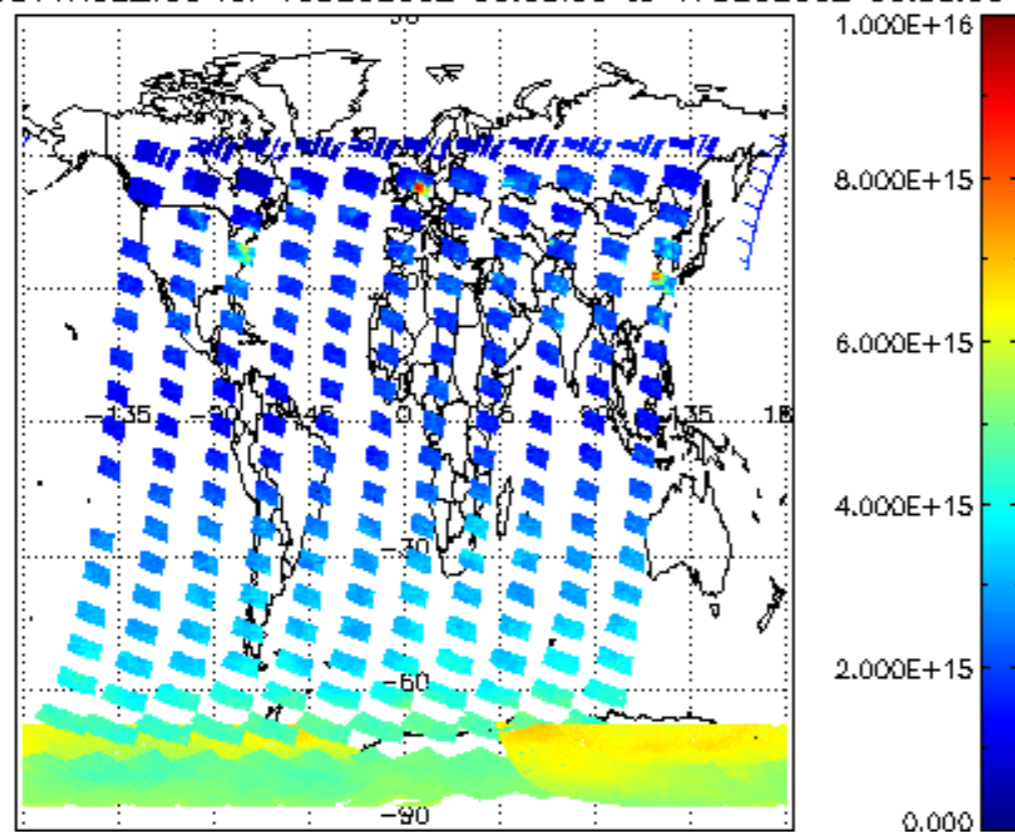


SCIOL2P\_NADUV003\_amf\_cl for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

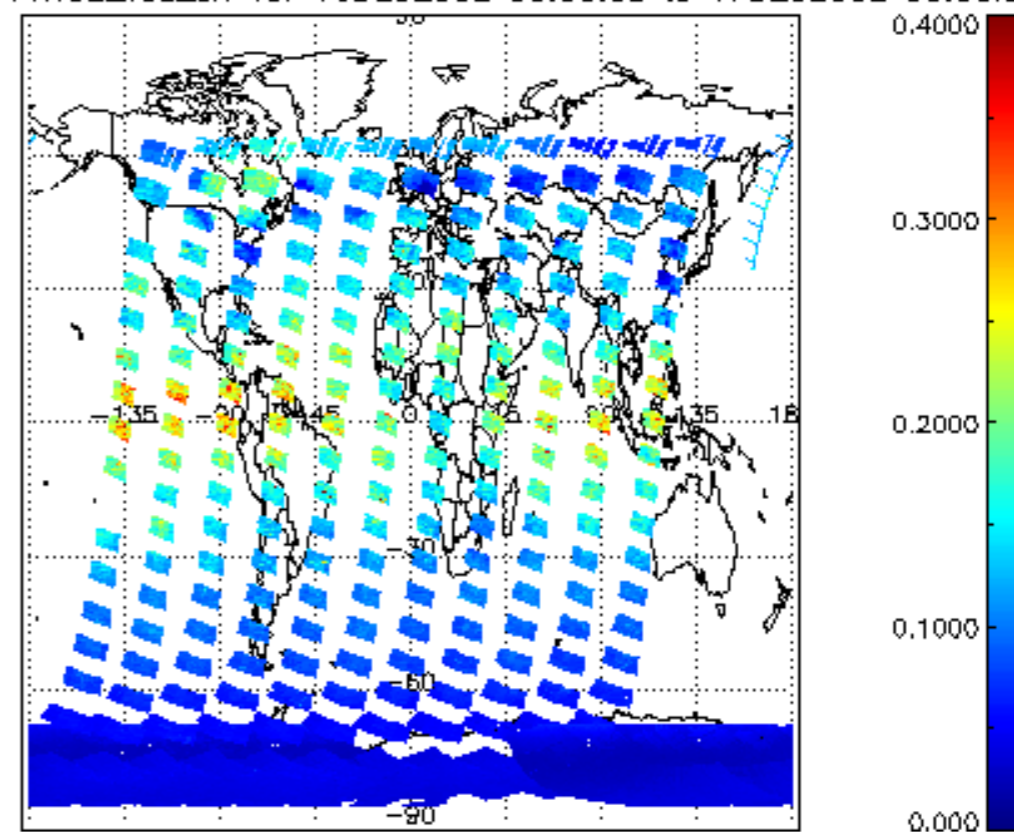




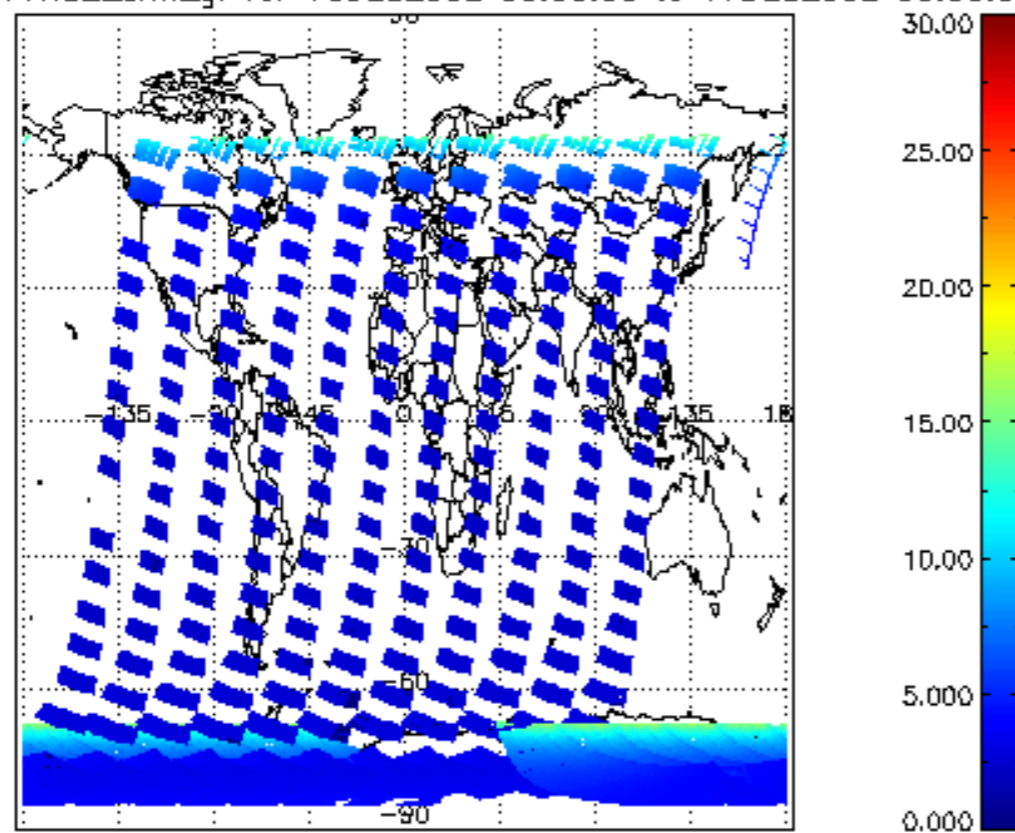
SCIOL2P\_NADUV1NO2\_vcd for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



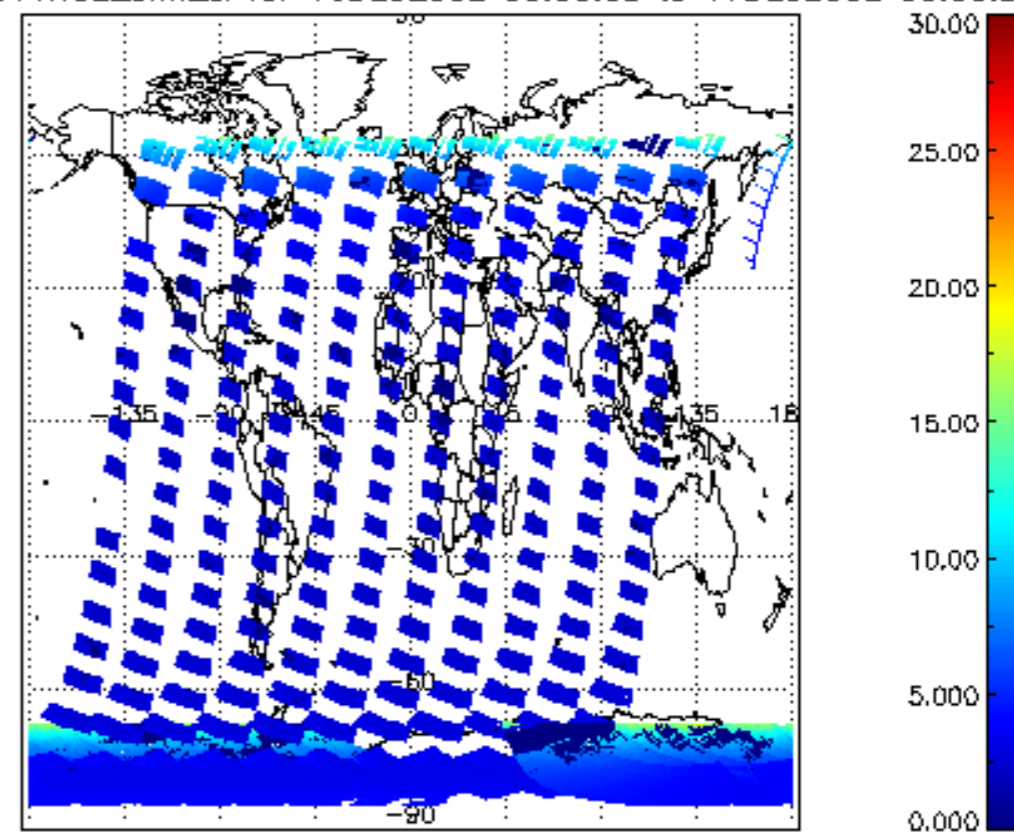
SCIOL2P\_NADUV1NO2\_vcd\_err for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



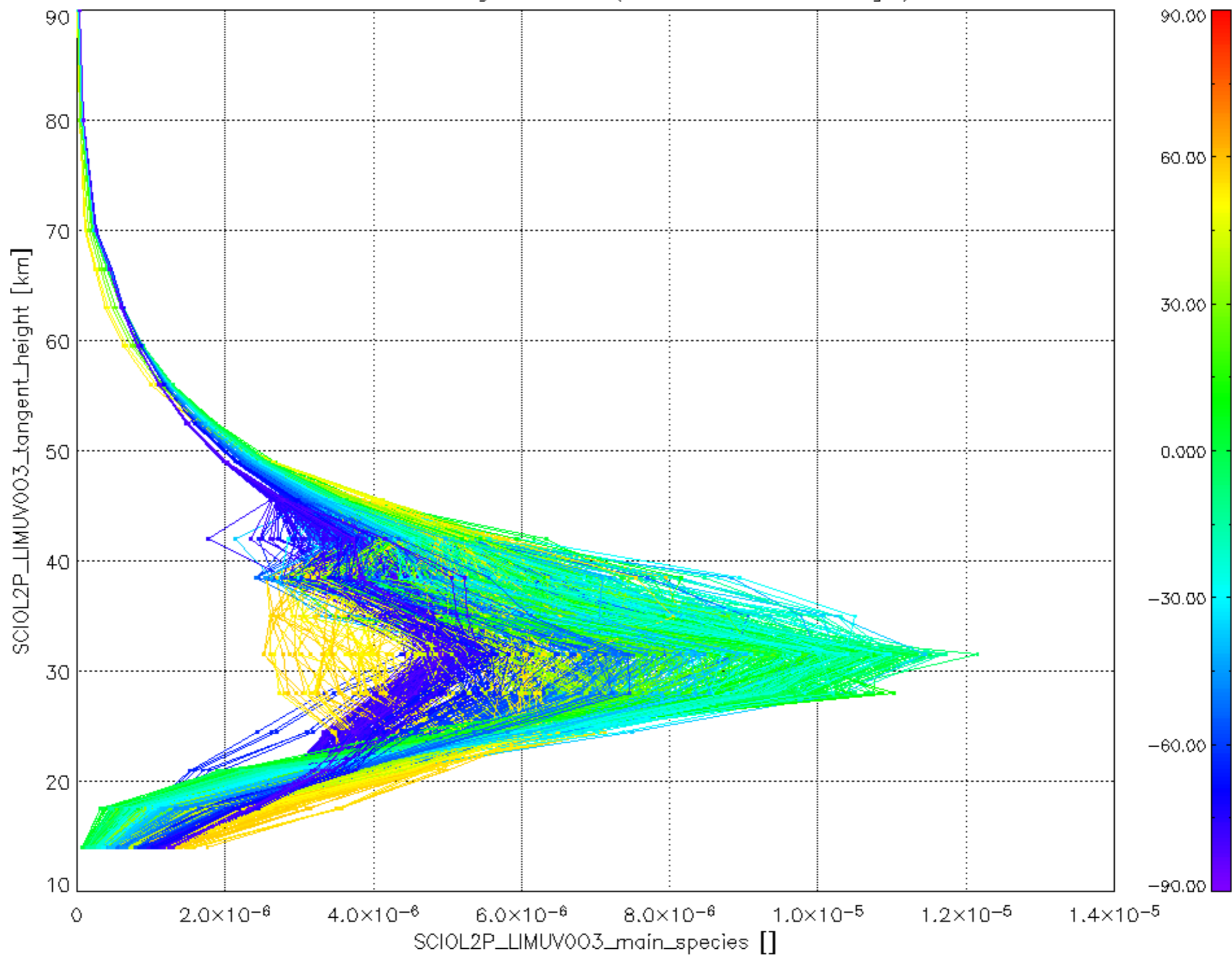
SCIOL2P\_NADUV1NO2\_amf\_gr for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



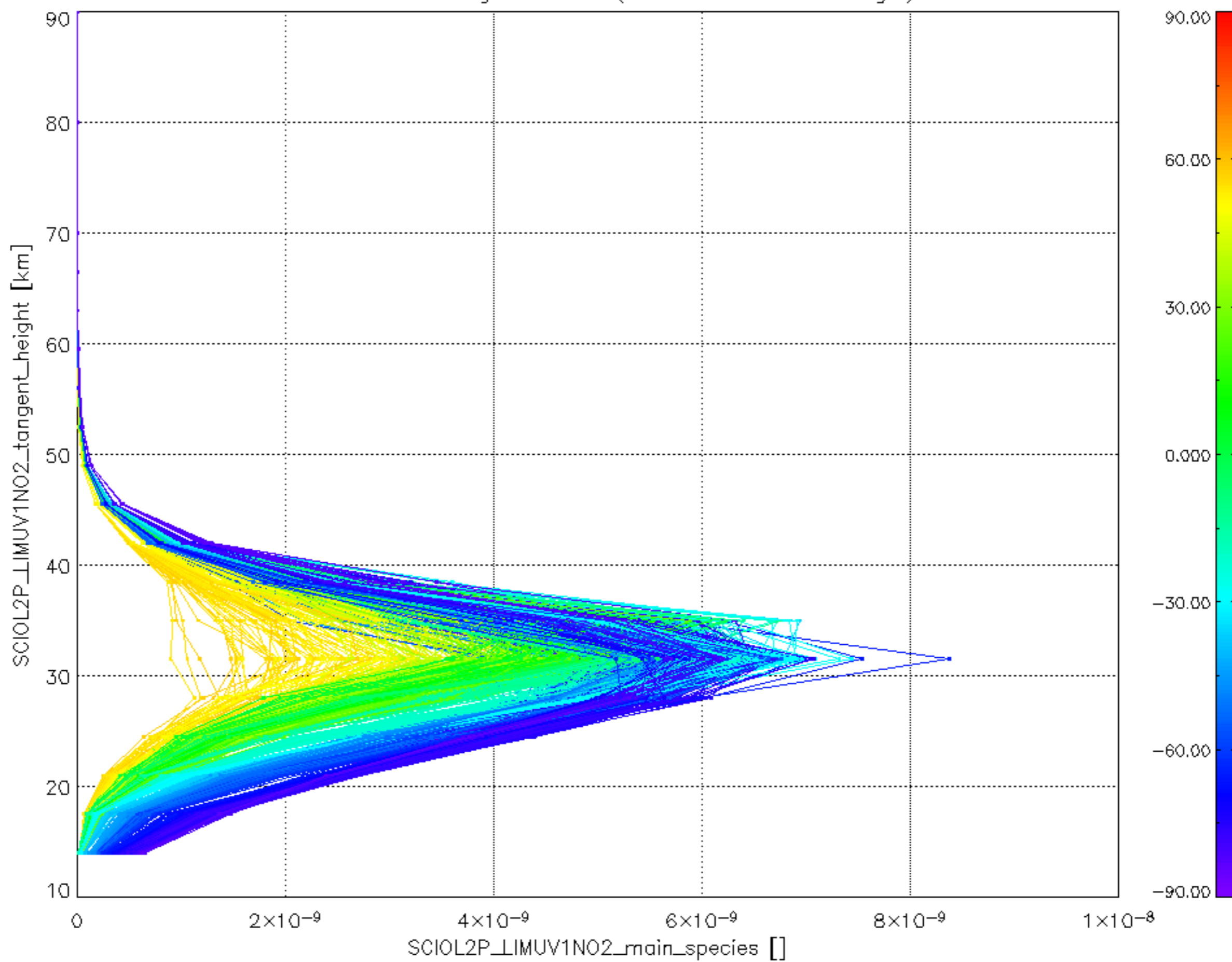
SCIOL2P\_NADUV1NO2\_amf\_cl for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



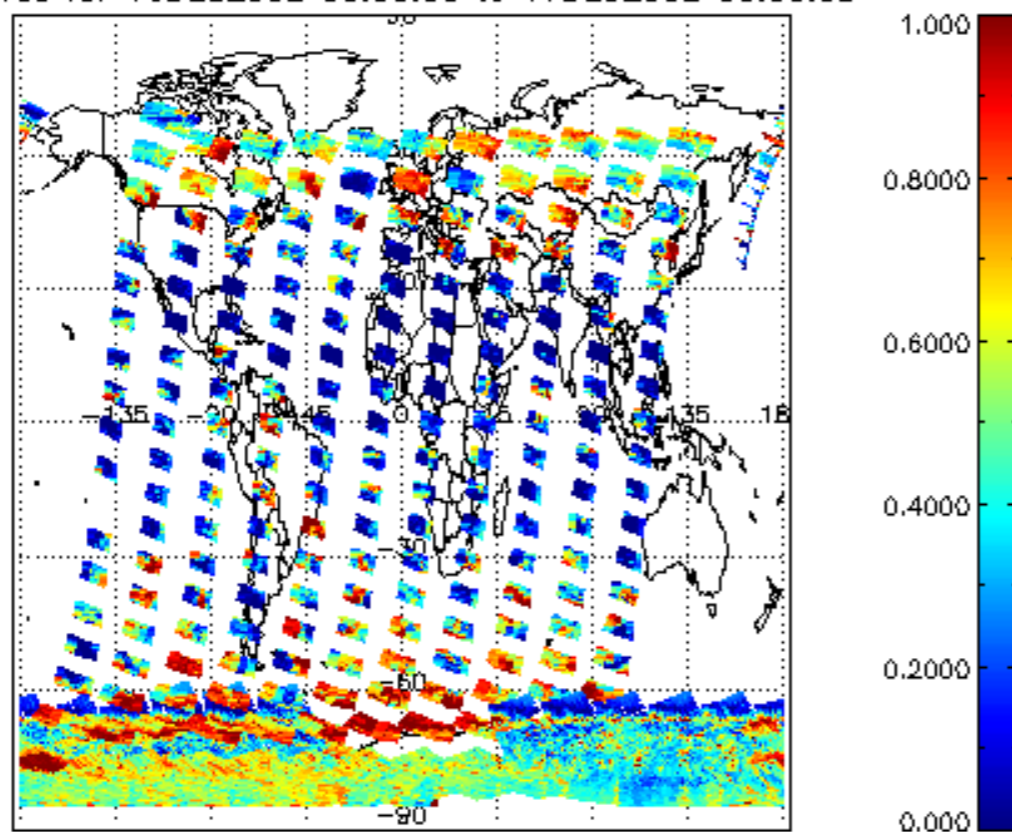
Plot of SCIOL2P\_LIMUV003\_main\_species.tang\_vmr vs. tangent height.  
 Colours indicate tangent latitude (see colour bar on the right).



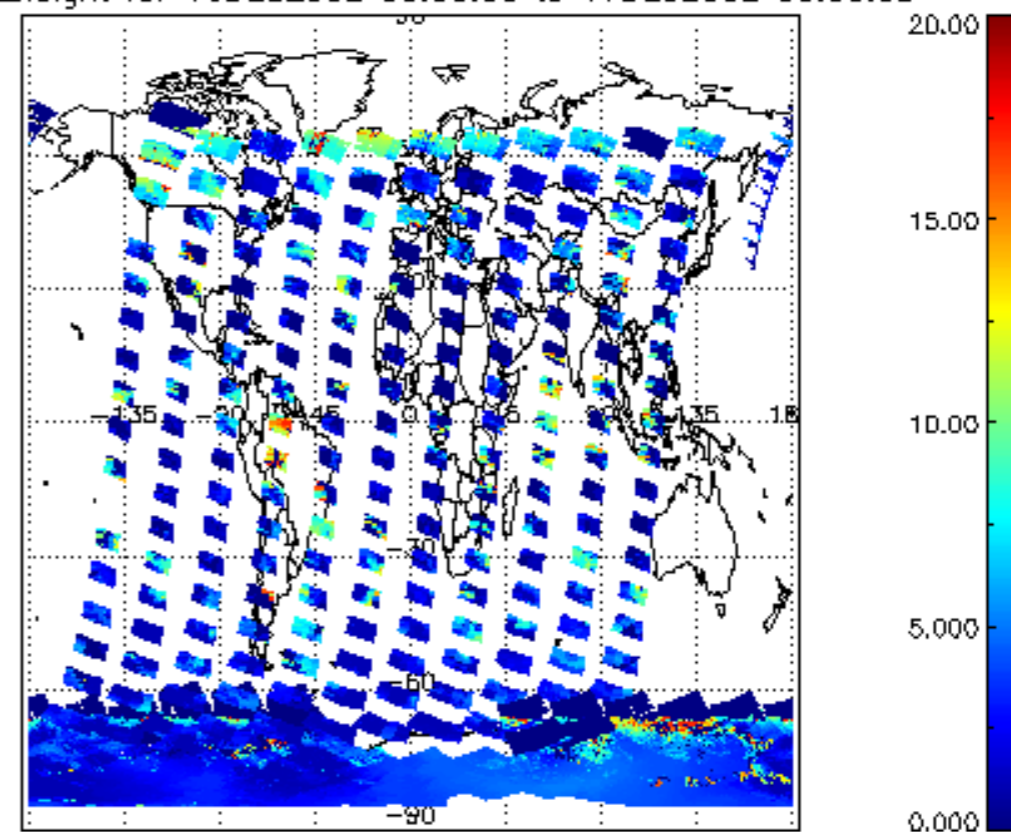
Plot of SCIOL2P\_LIMUV1NO2\_main\_species.tang\_vmr vs. tangent height.  
 Colours indicate tangent latitude (see colour bar on the right).



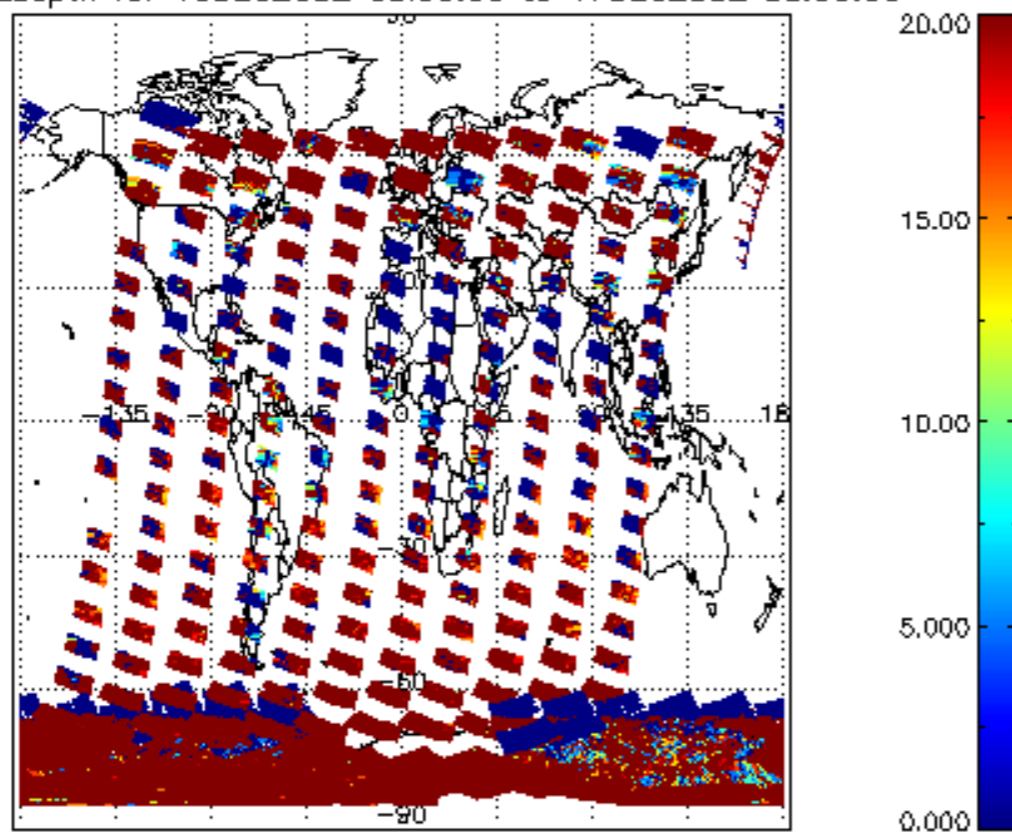
cL\_frac for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



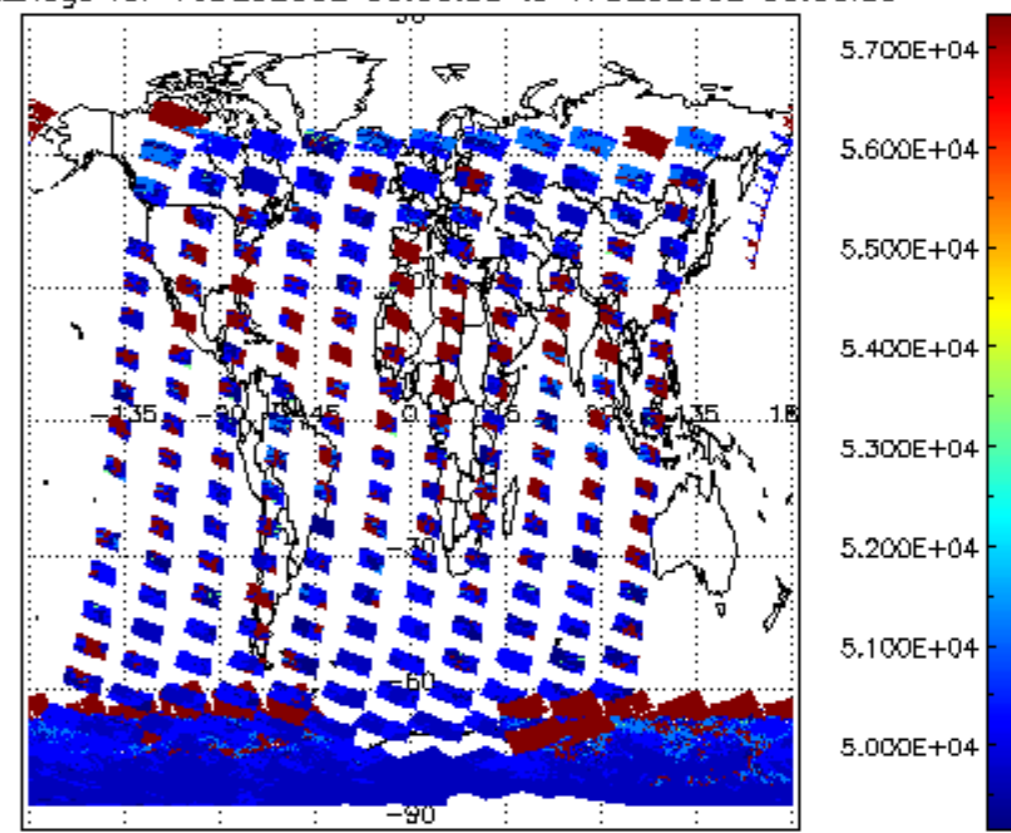
cL\_top\_height for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

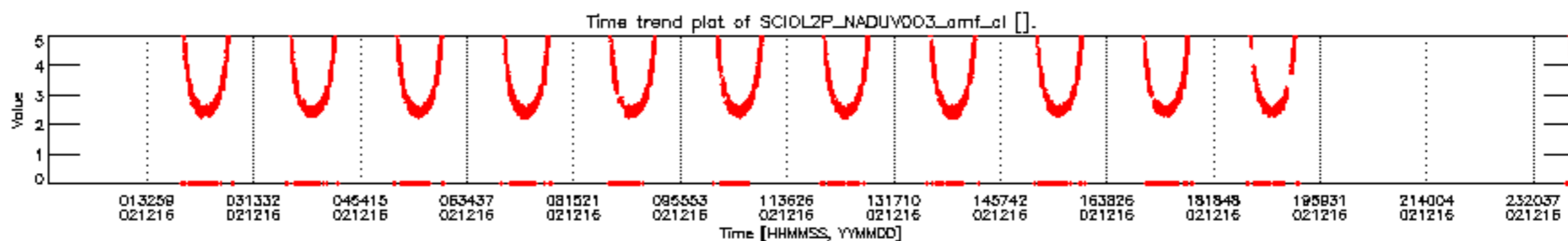
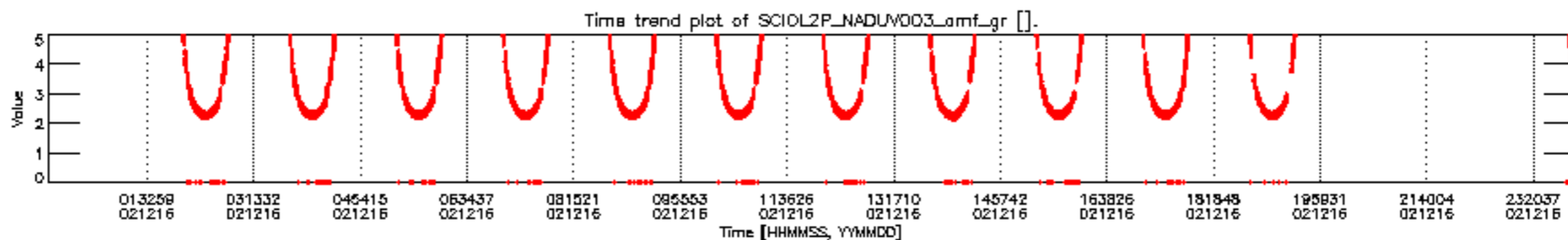
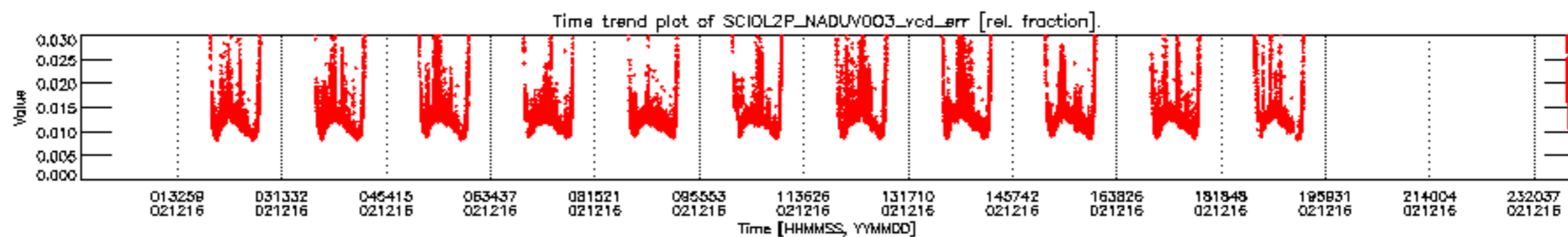
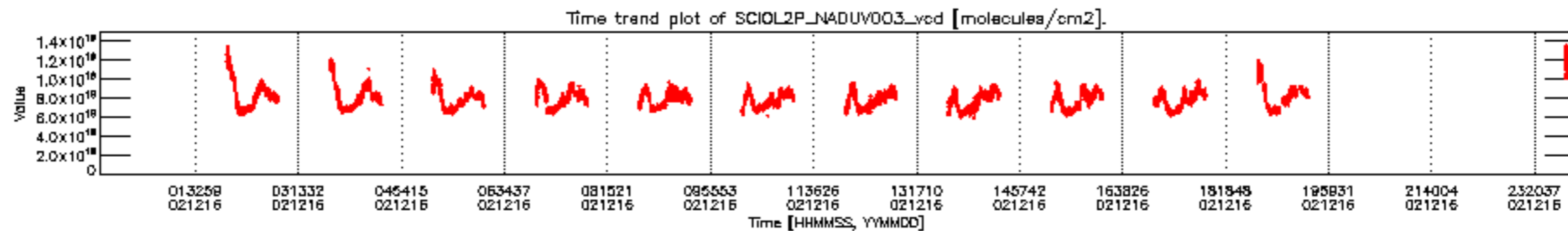


cL\_opt\_depth for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

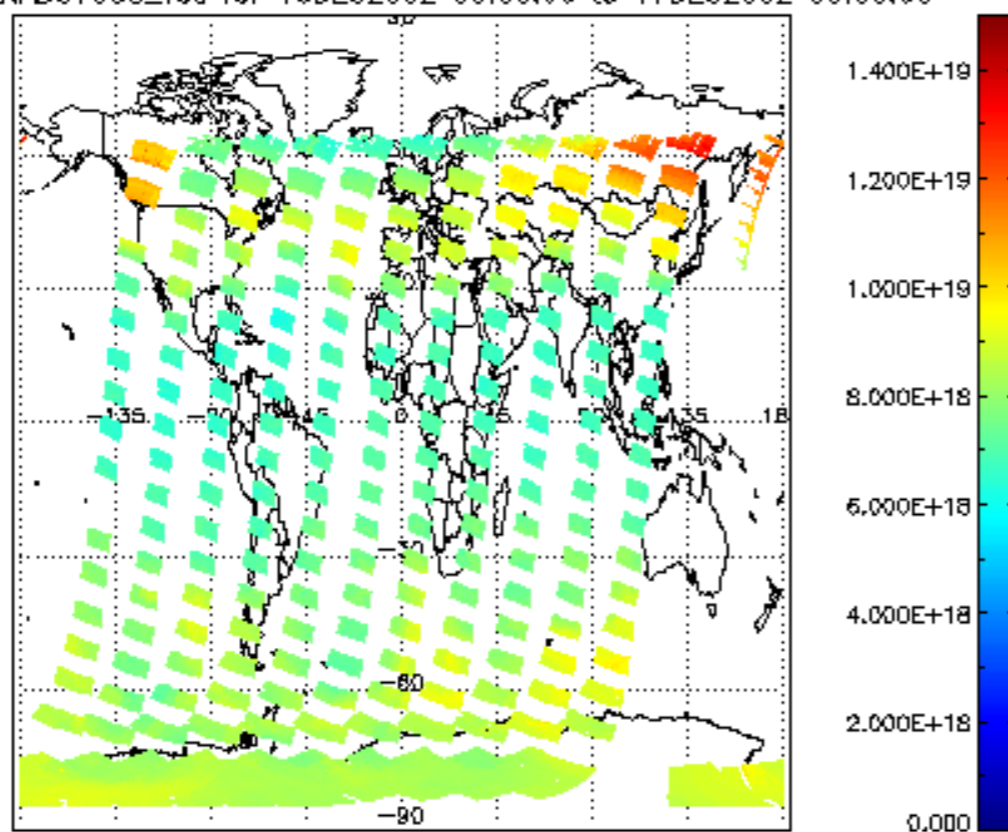


cloud\_flags for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

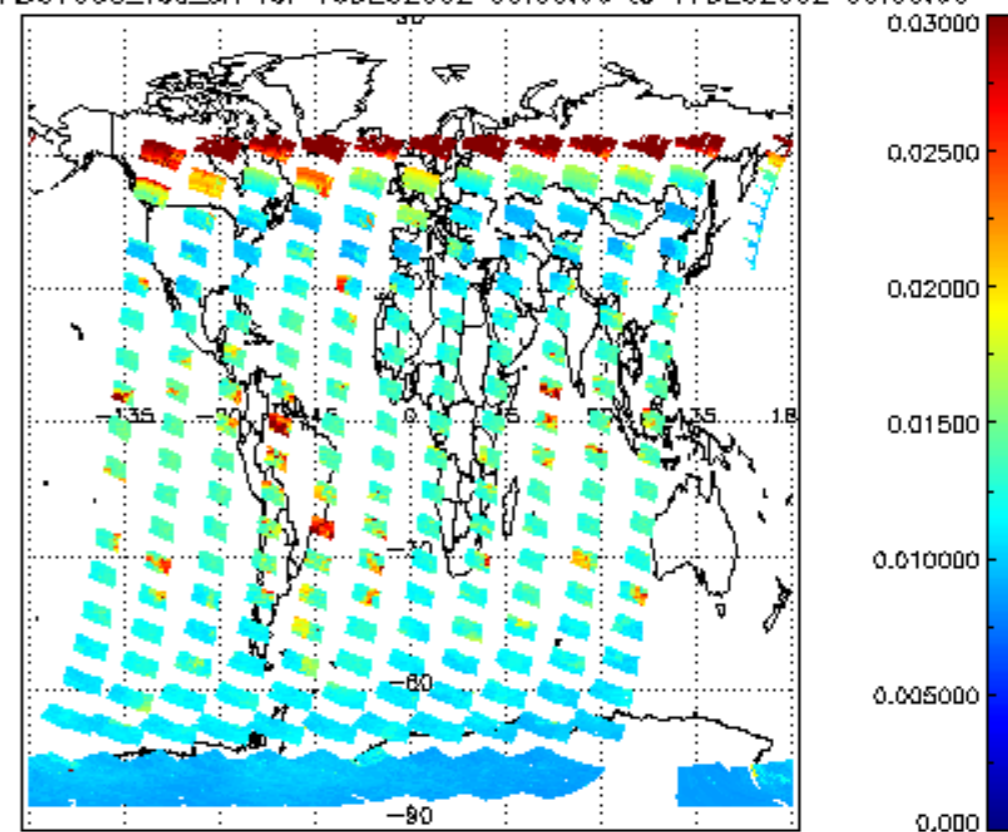




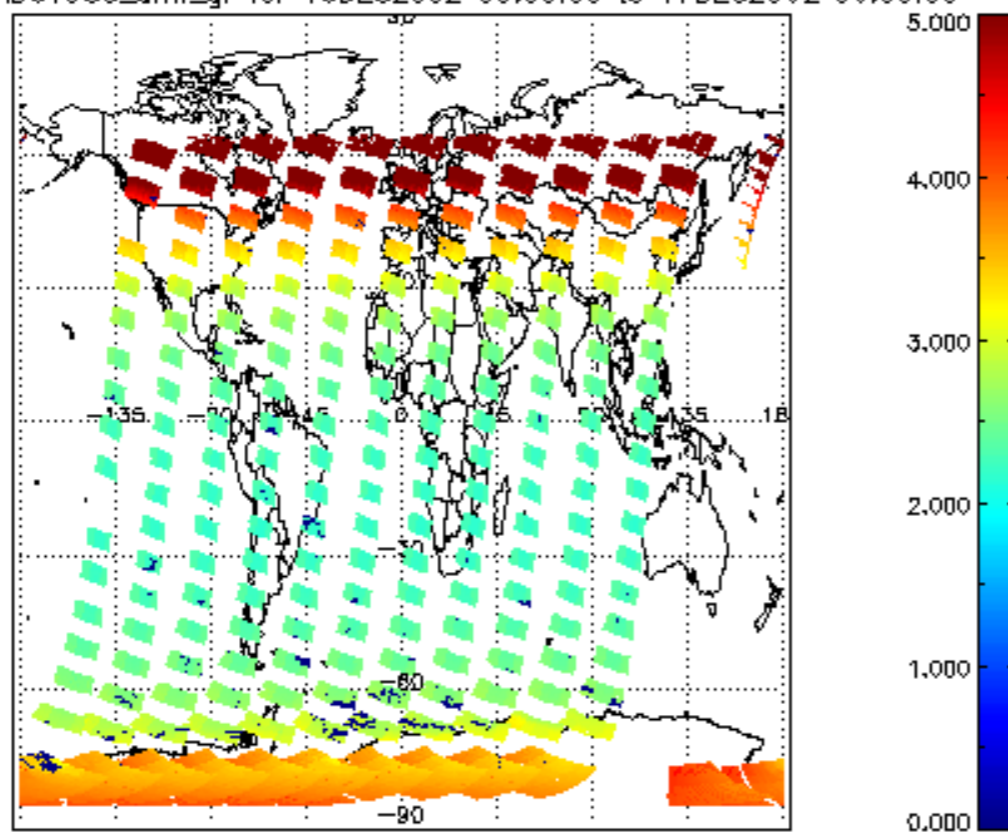
SCIOL2P\_NADUV003\_vcd for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



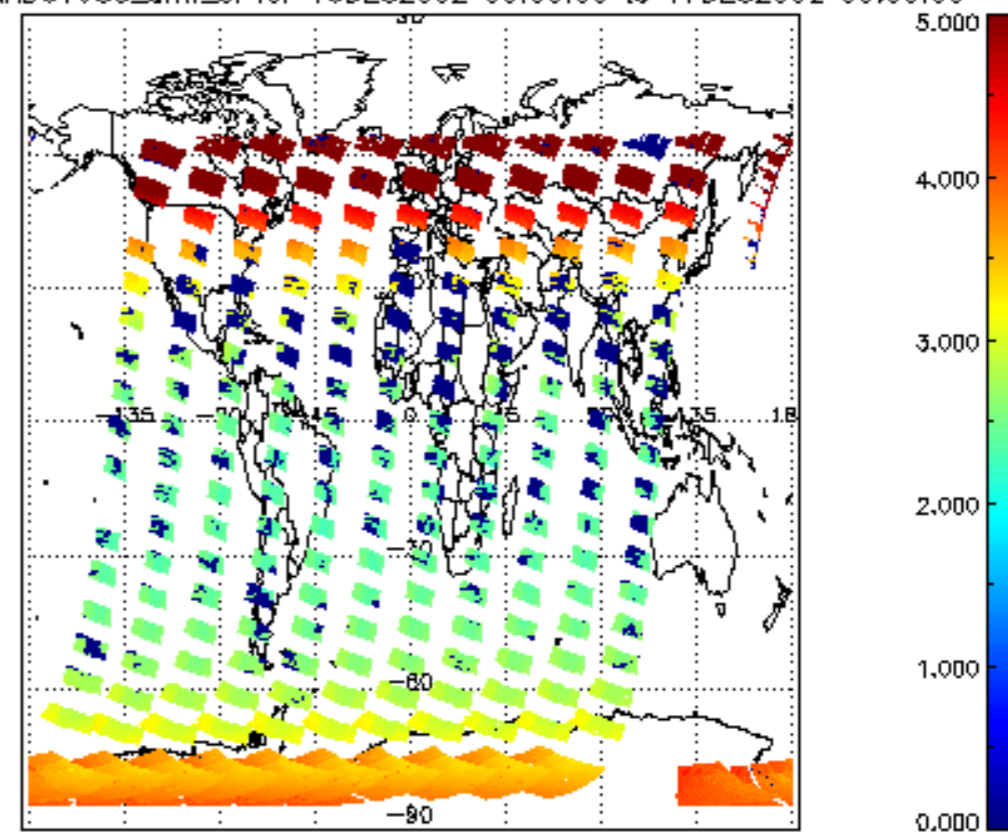
SCIOL2P\_NADUV003\_vcd\_err for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



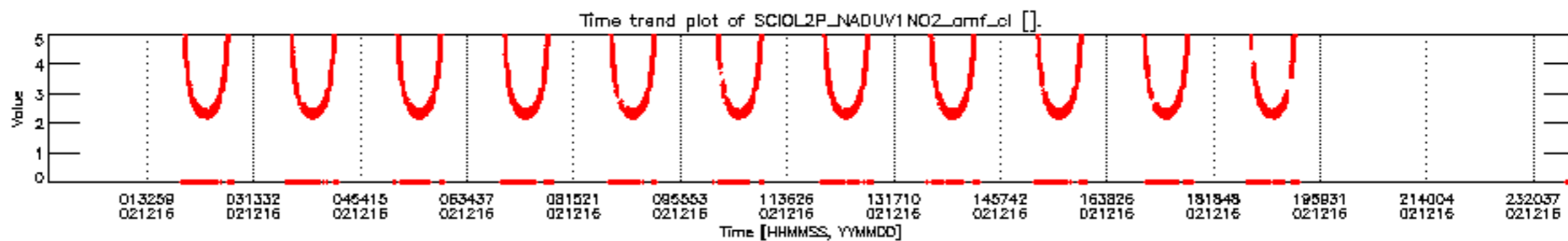
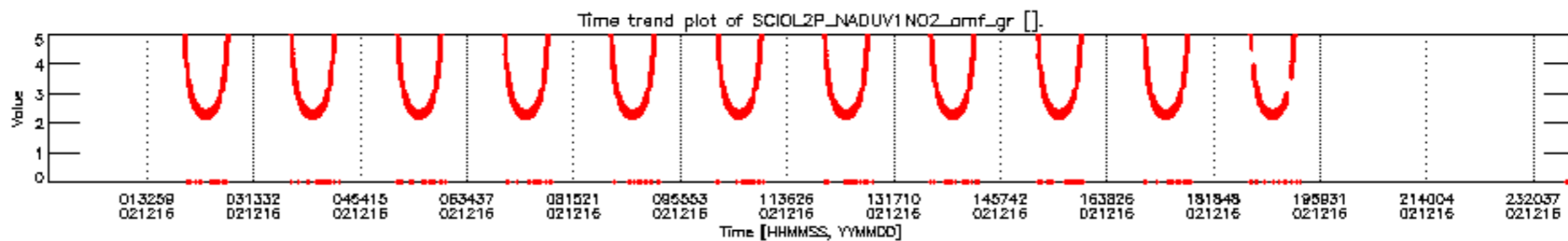
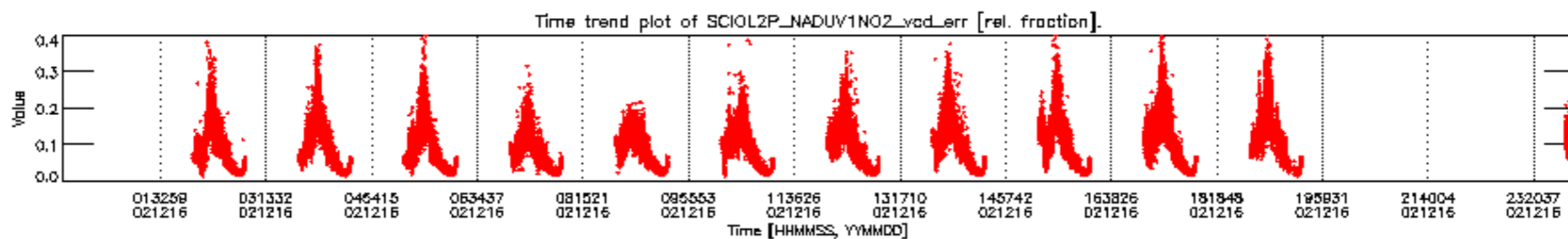
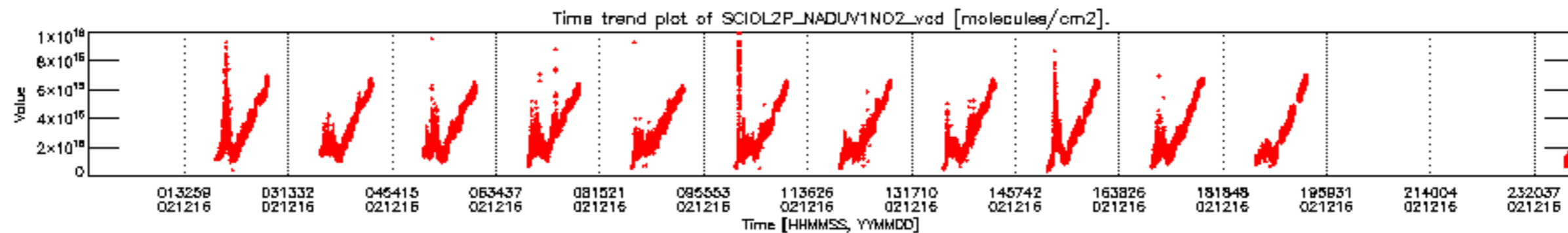
SCIOL2P\_NADUV003\_amf\_gr for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



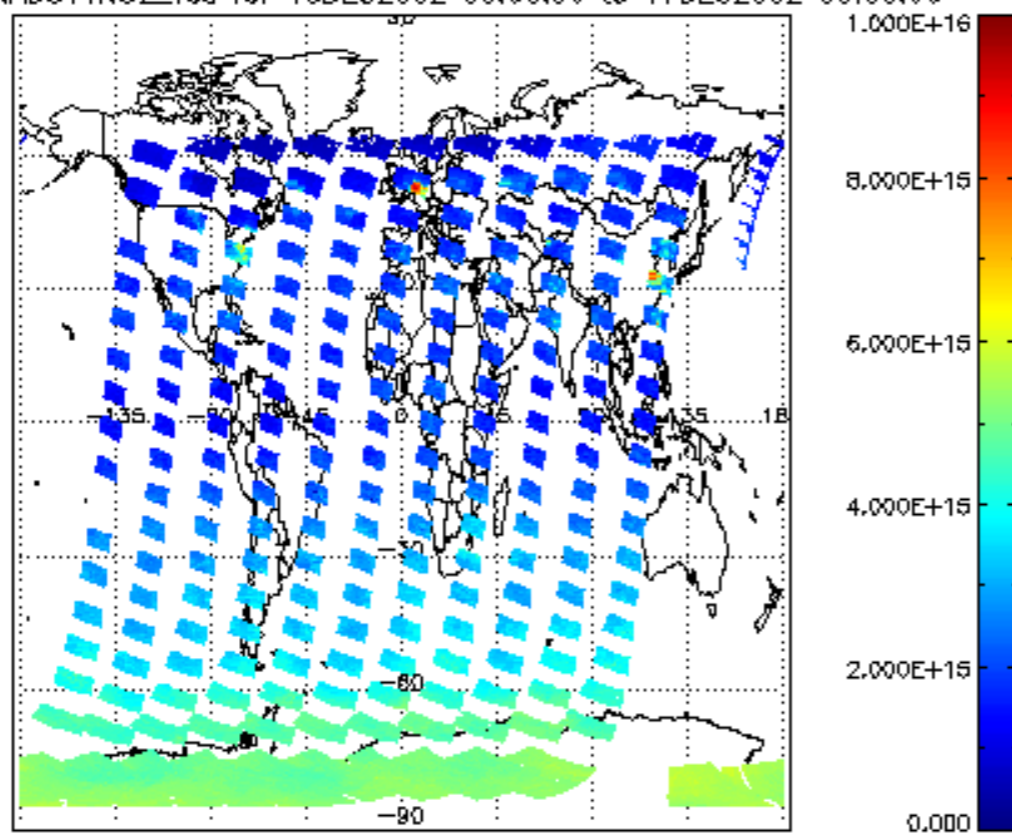
SCIOL2P\_NADUV003\_amf\_cl for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



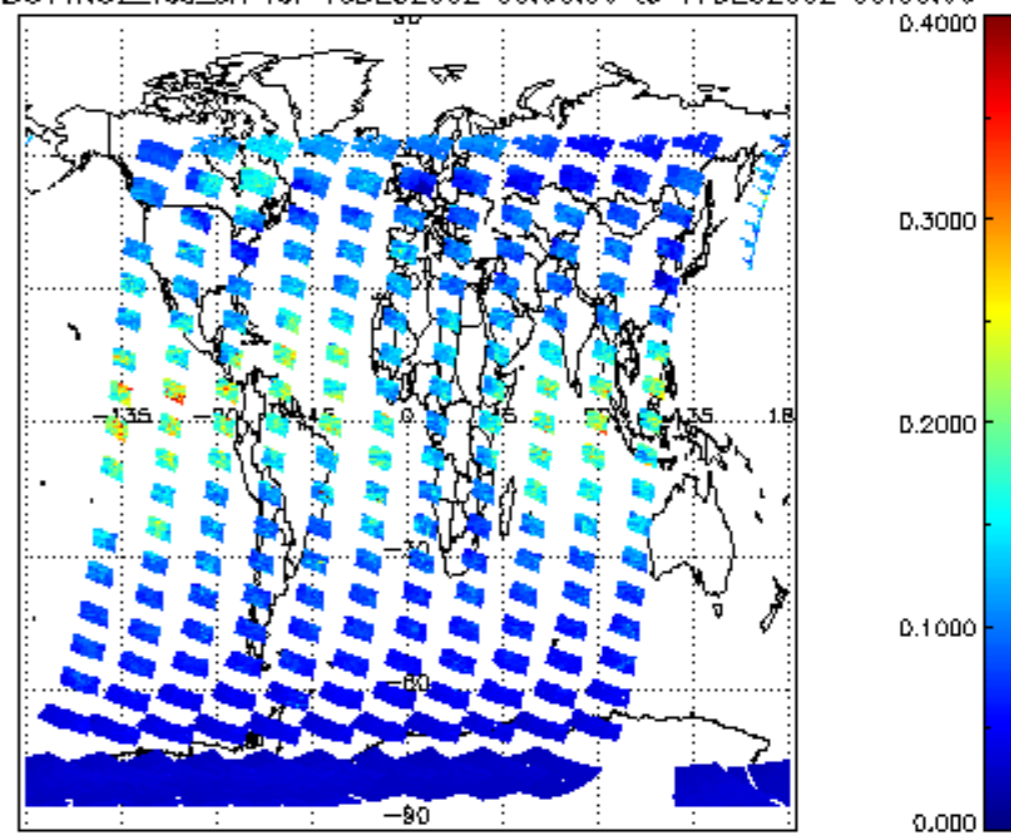




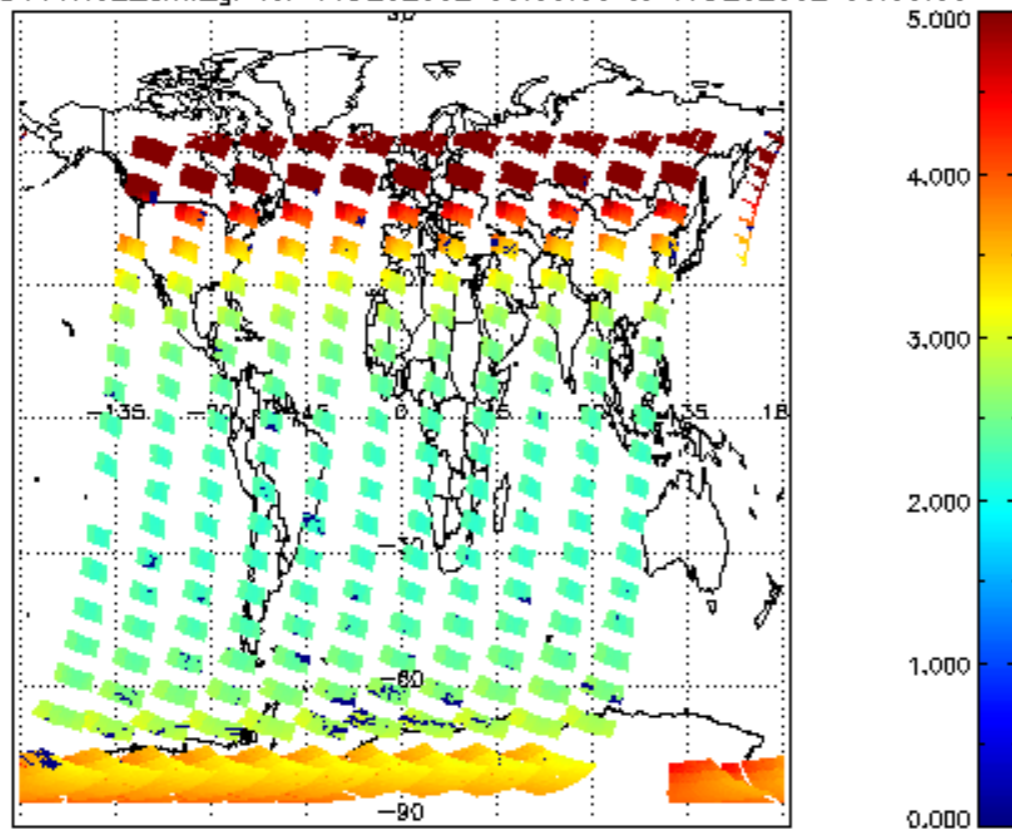
SCIOL2P\_NADUV1NO2\_vcd for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



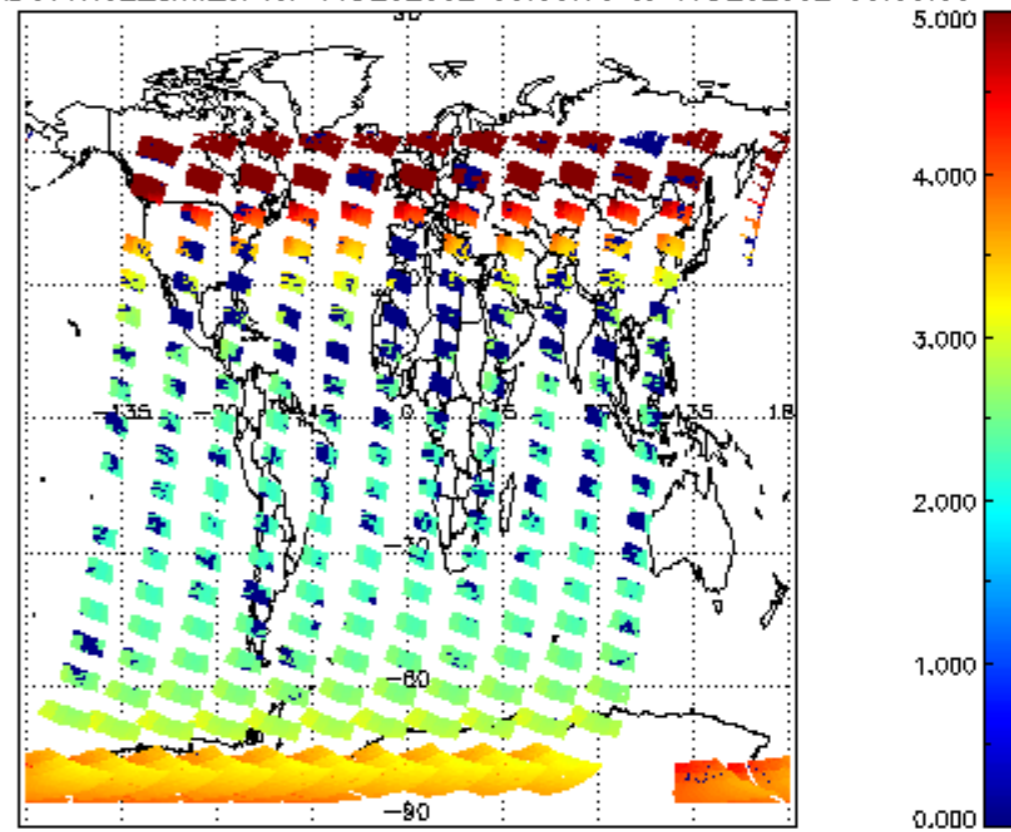
SCIOL2P\_NADUV1NO2\_vcd\_err for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

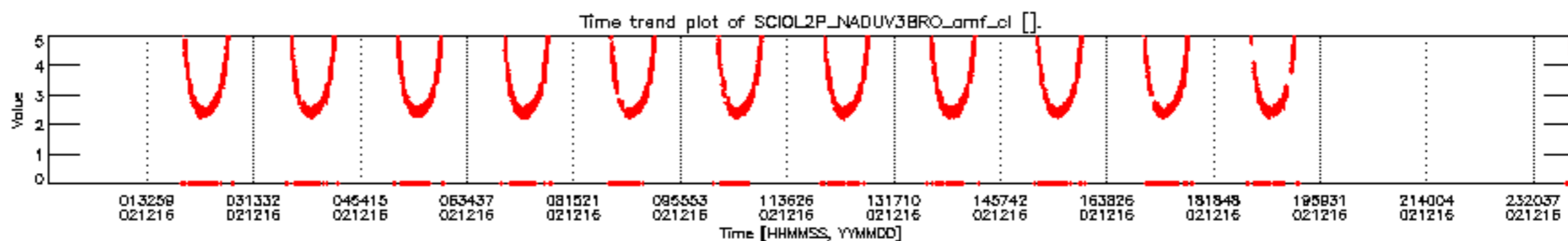
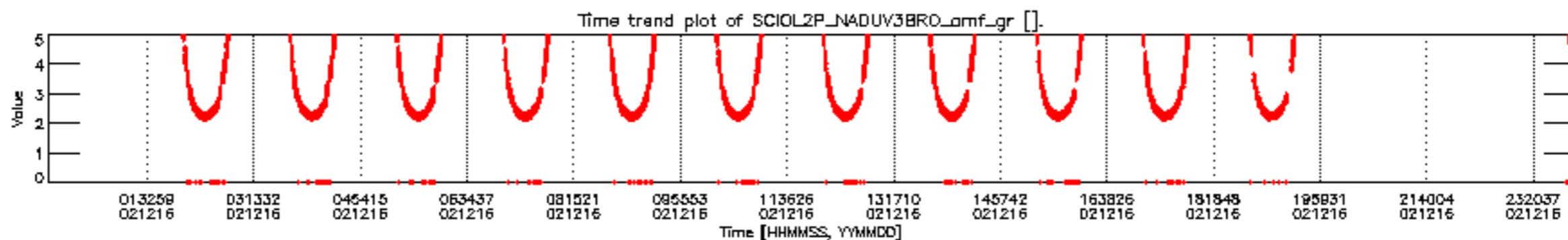
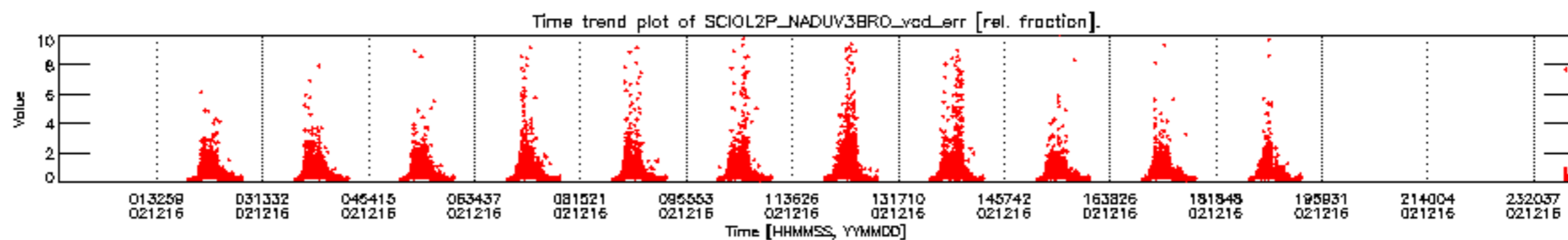
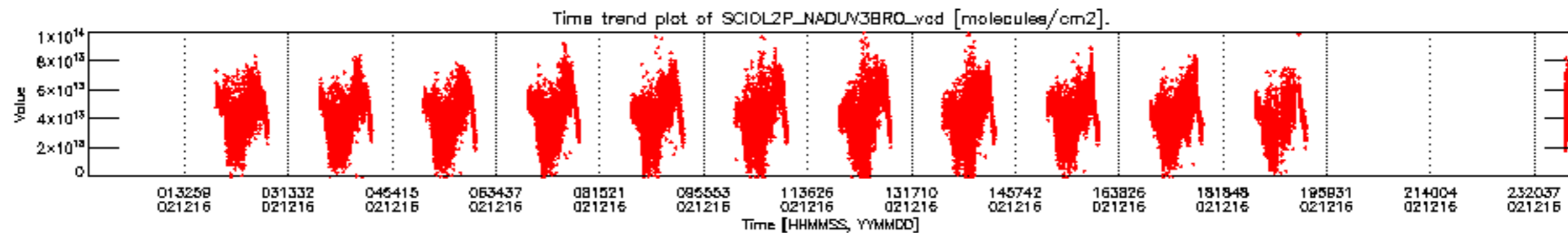


SCIOL2P\_NADUV1NO2\_amf\_gr for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

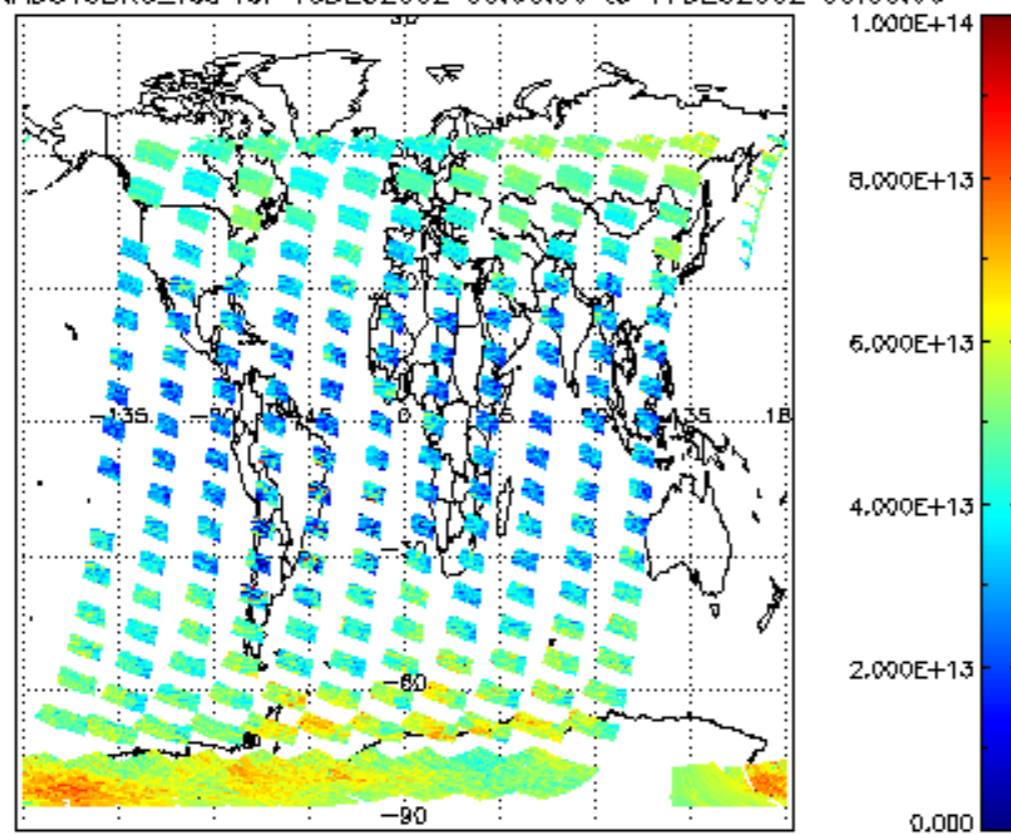


SCIOL2P\_NADUV1NO2\_amf\_cl for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

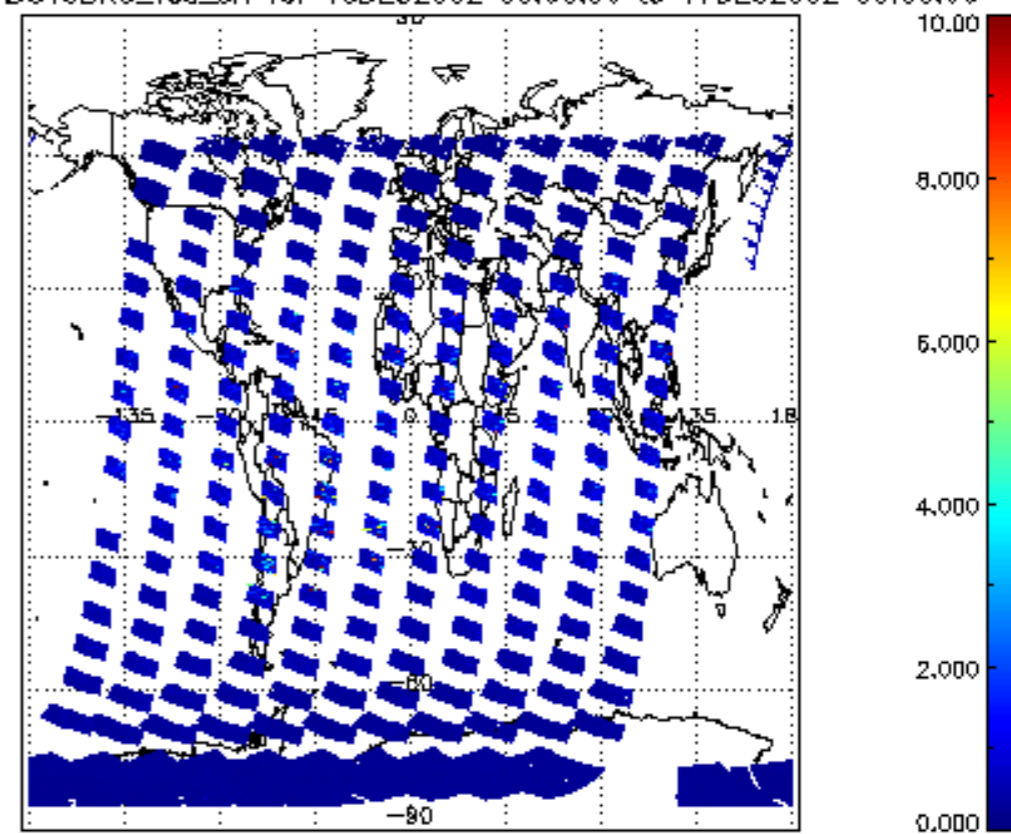




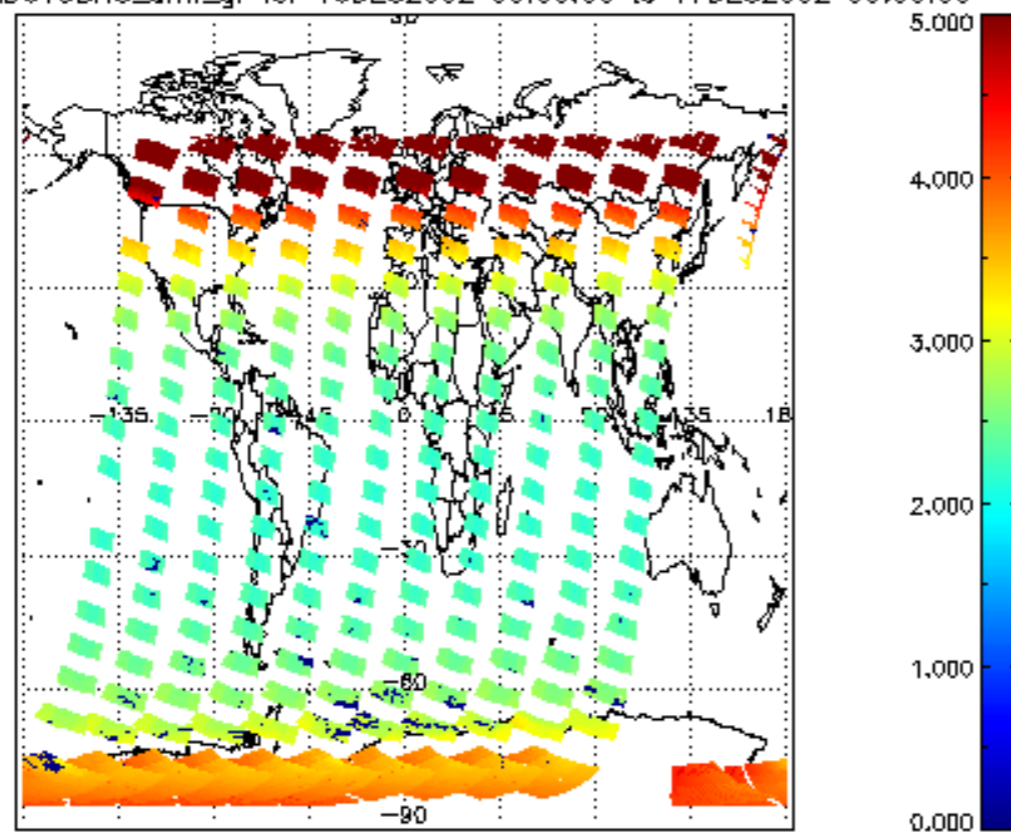
SCIOL2P\_NADUV3BRO\_vcd for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



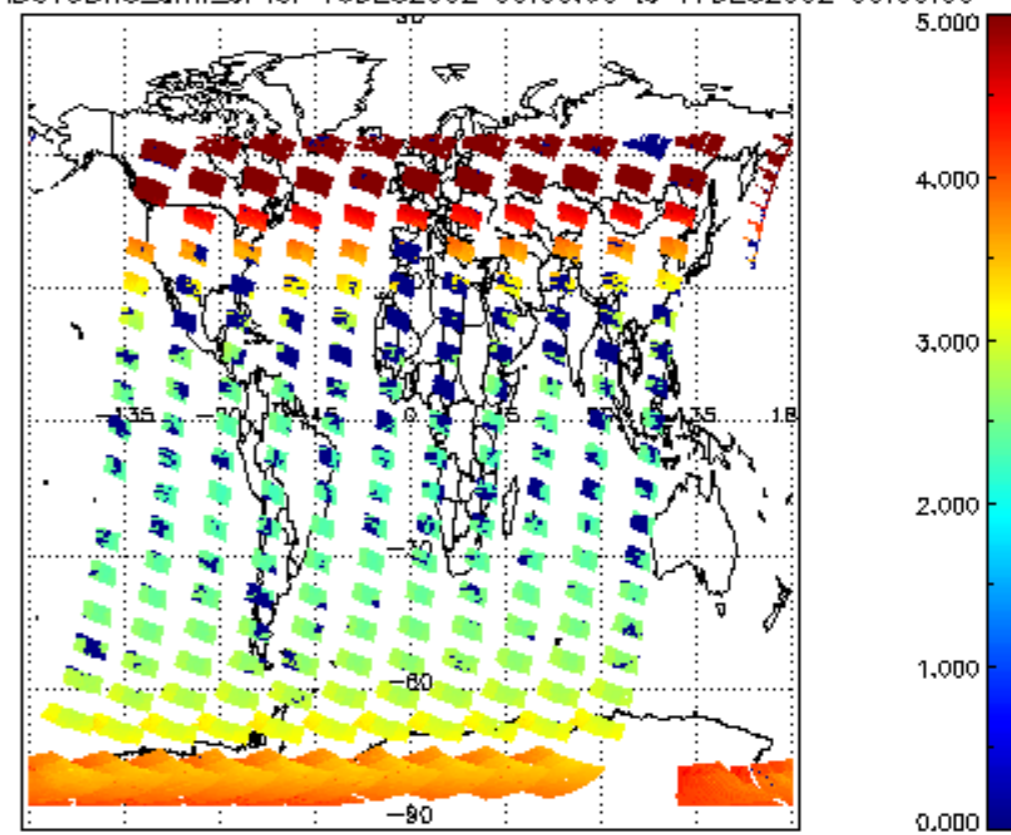
SCIOL2P\_NADUV3BRO\_vcd\_err for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

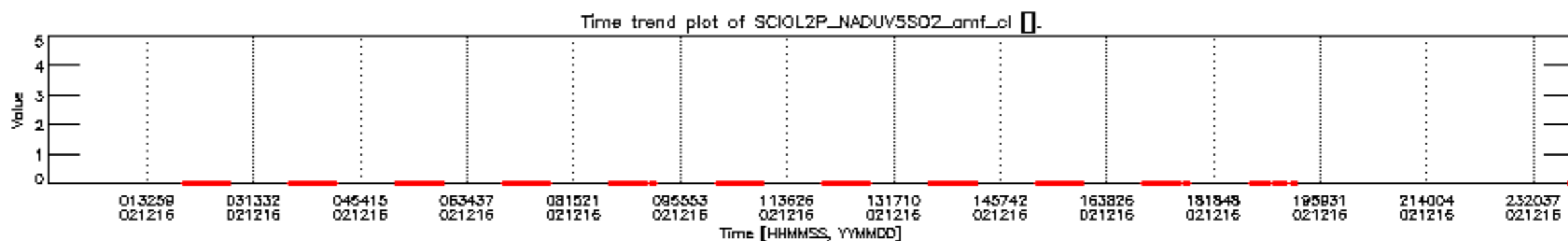
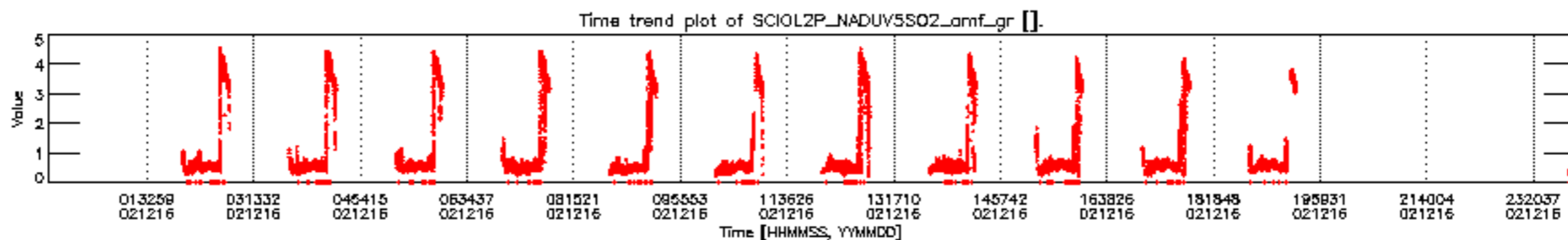
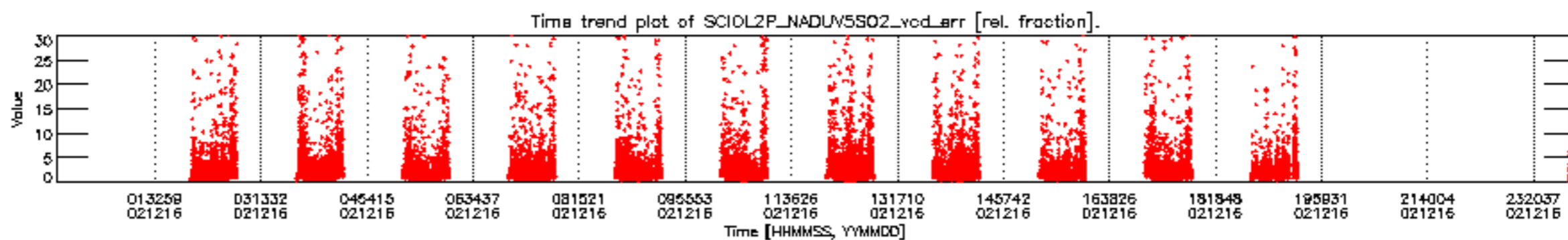
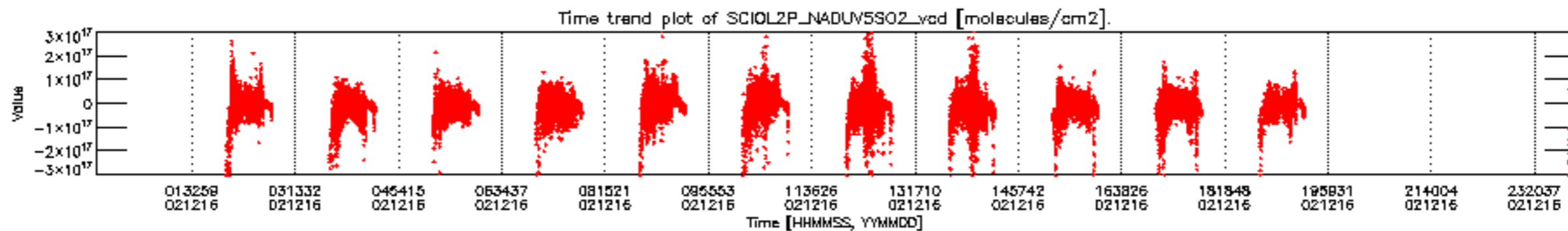


SCIOL2P\_NADUV3BRO\_amf\_gr for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

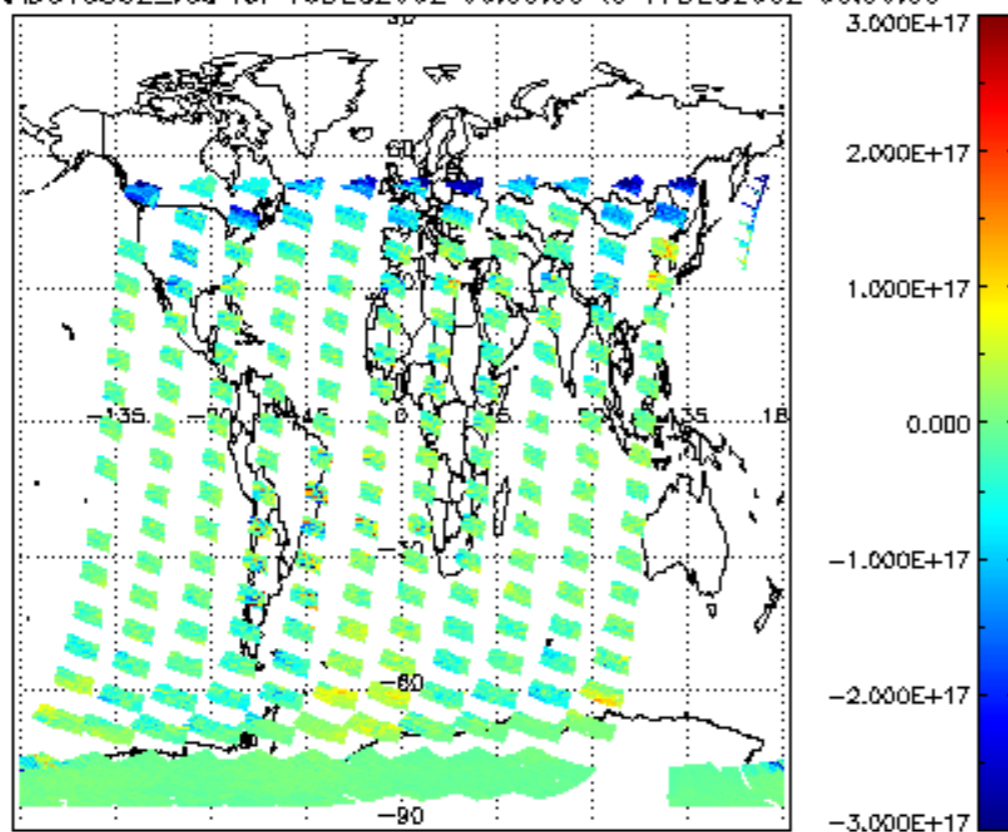


SCIOL2P\_NADUV3BRO\_amf\_cl for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

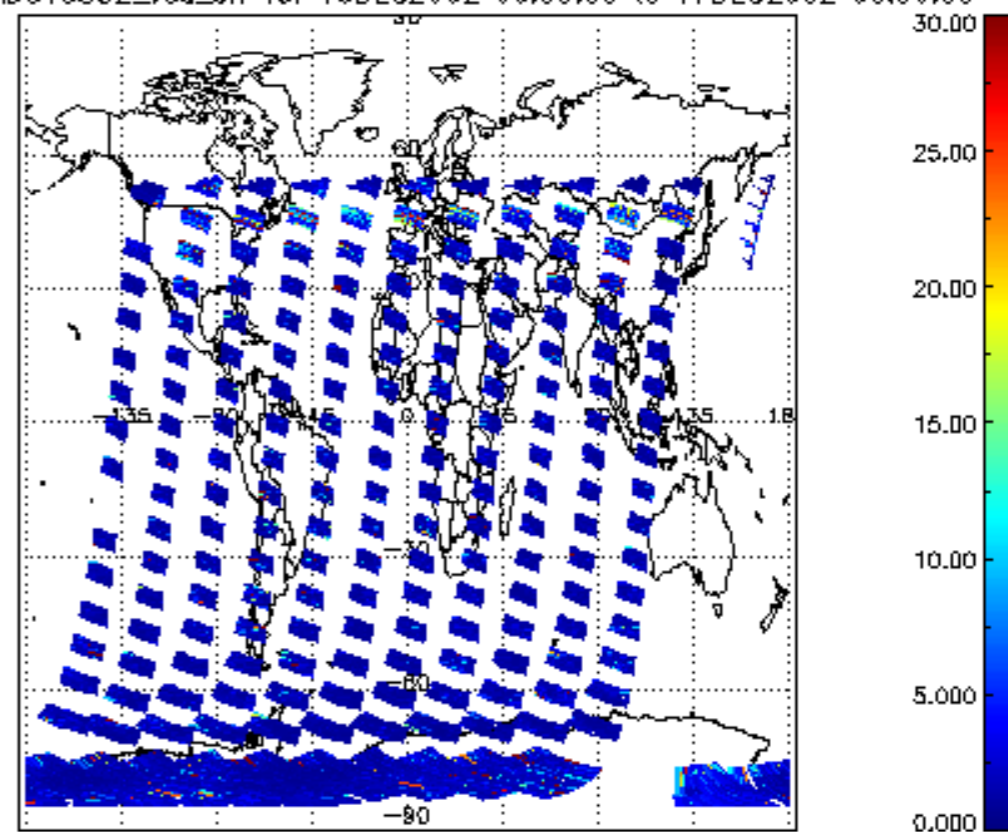




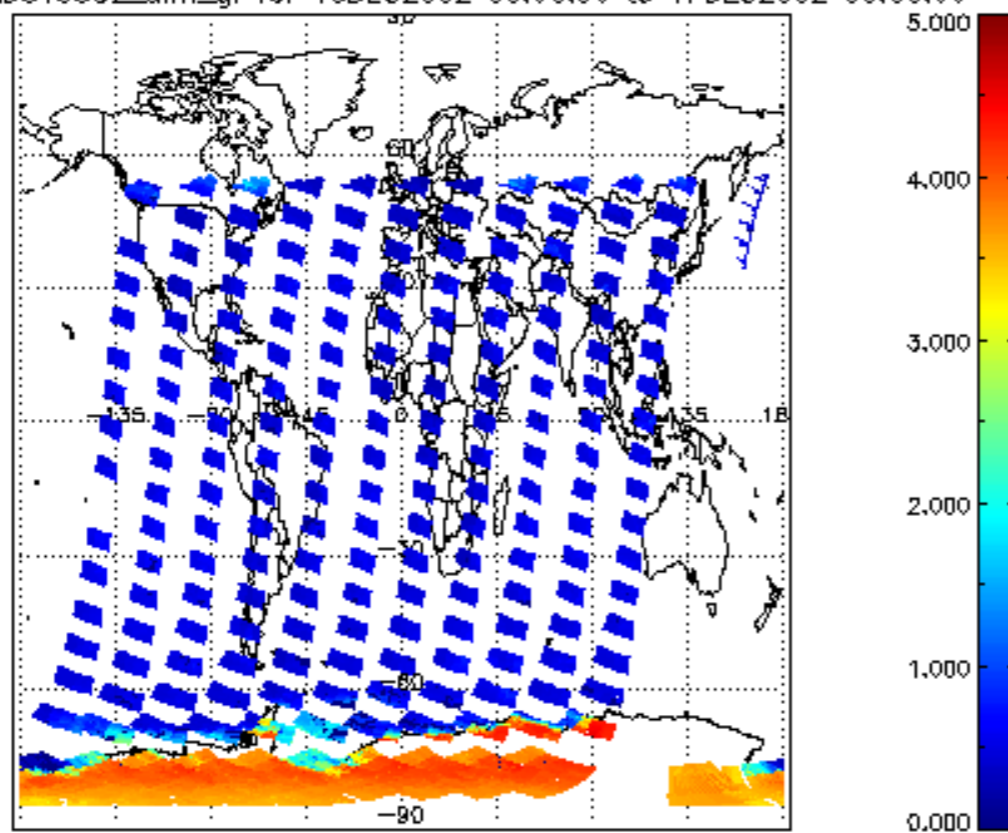
SCIOL2P\_NADUV5SO2\_vcd for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



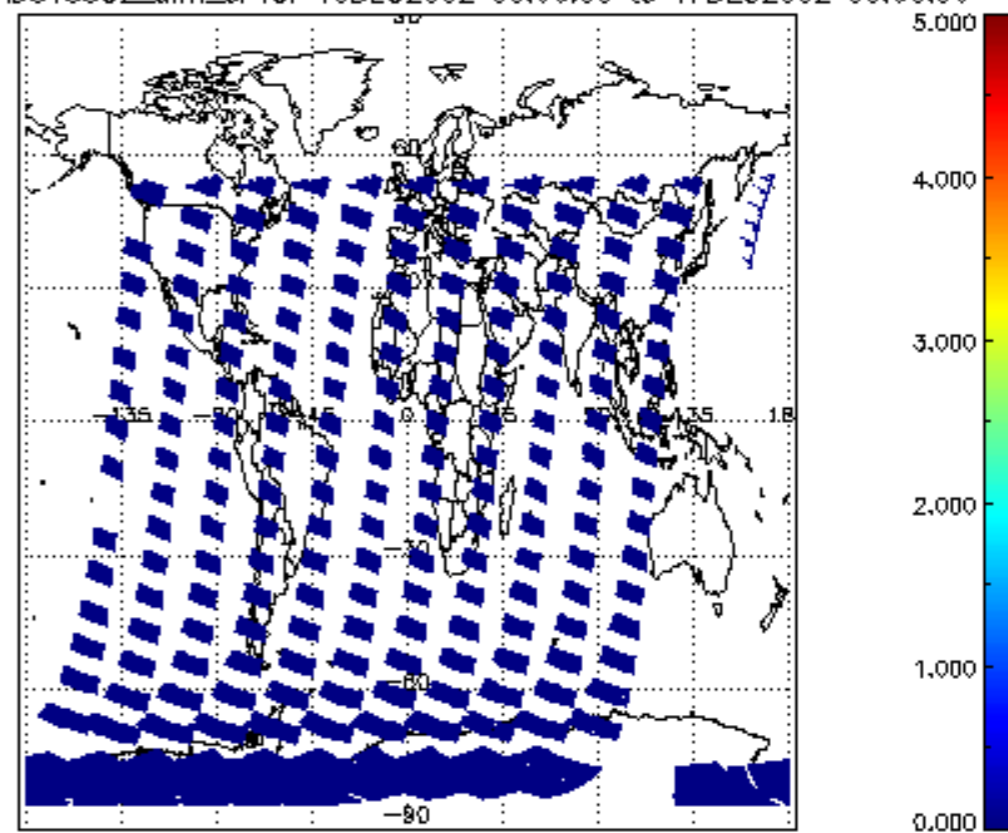
SCIOL2P\_NADUV5SO2\_vcd\_err for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

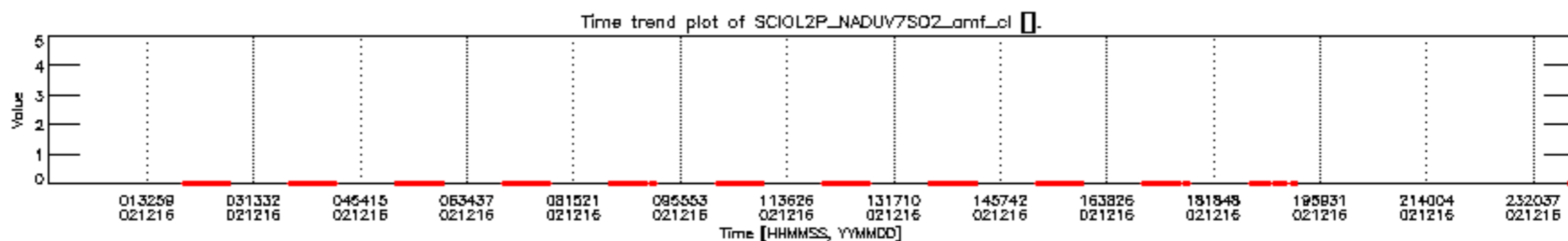
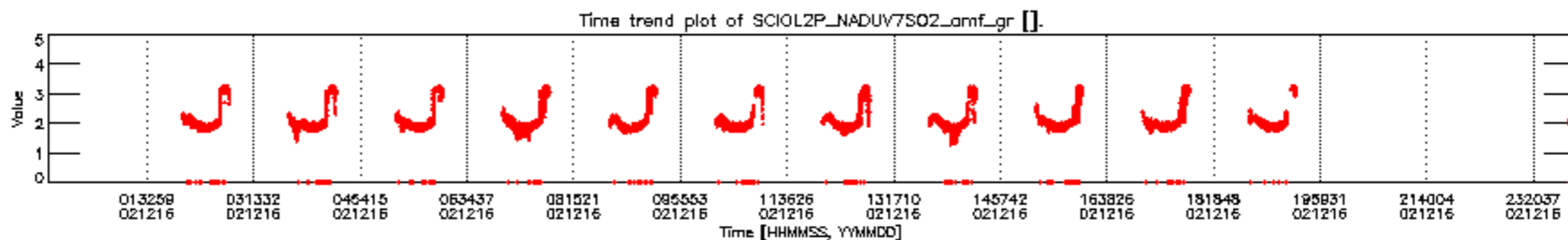
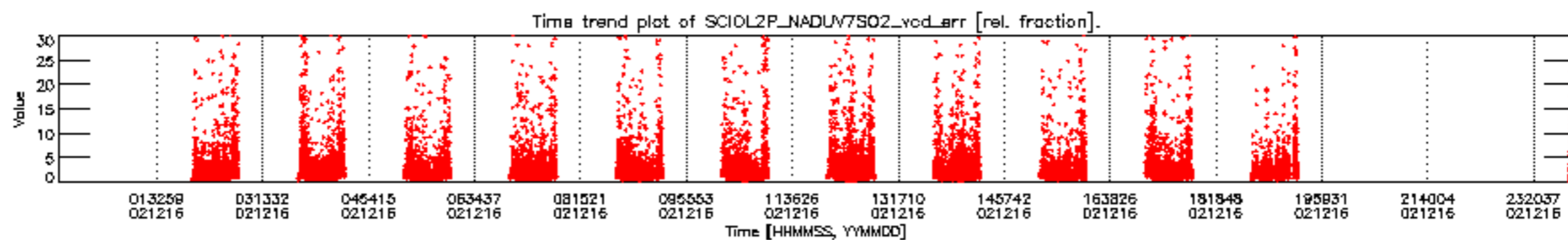
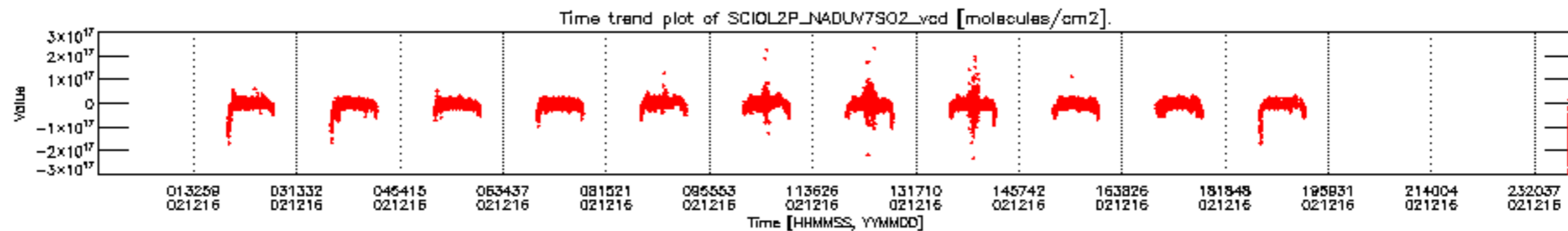


SCIOL2P\_NADUV5SO2\_amf\_gr for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

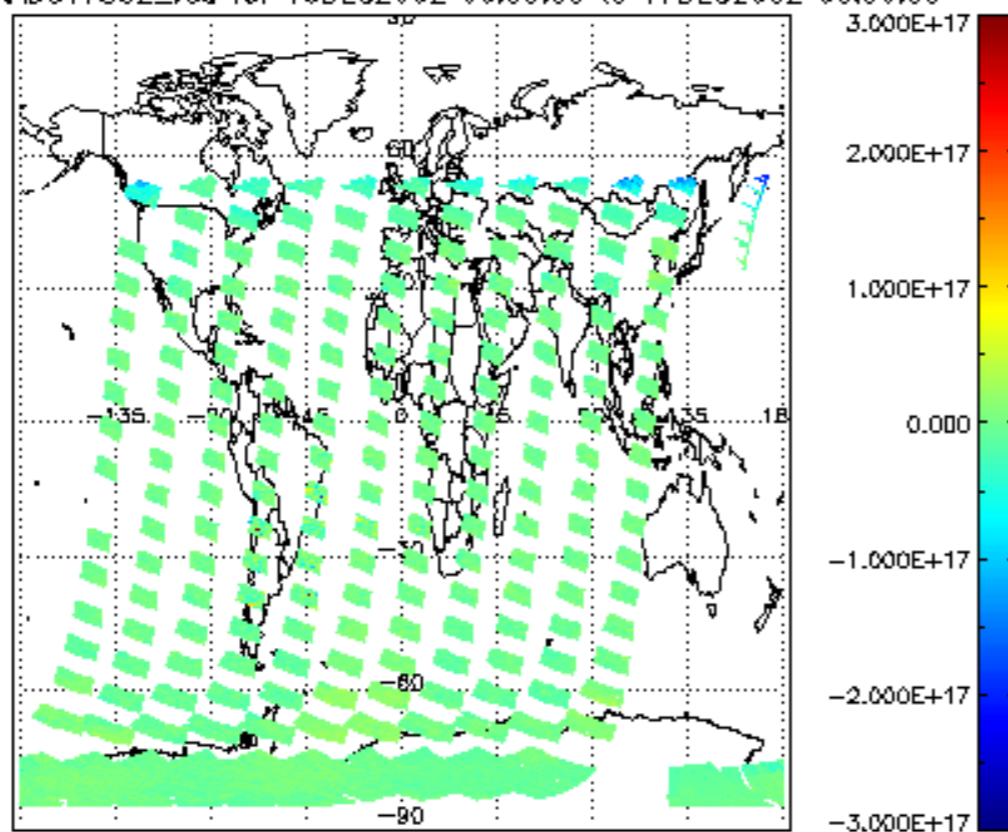


SCIOL2P\_NADUV5SO2\_amf\_cl for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

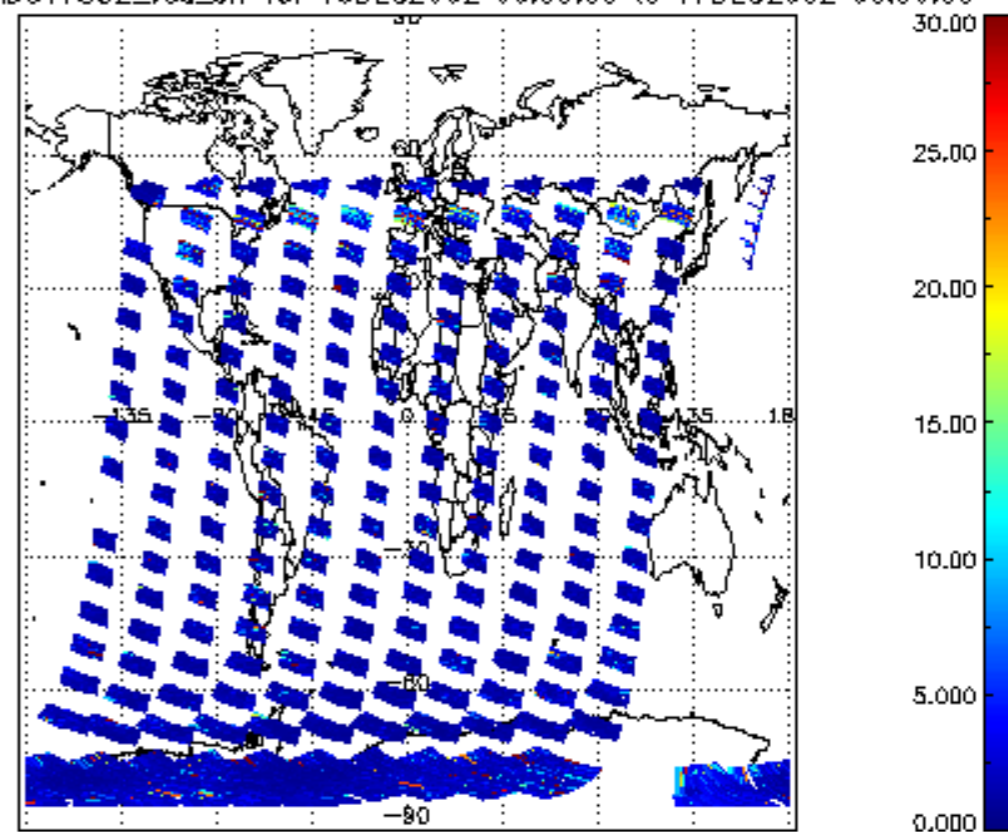




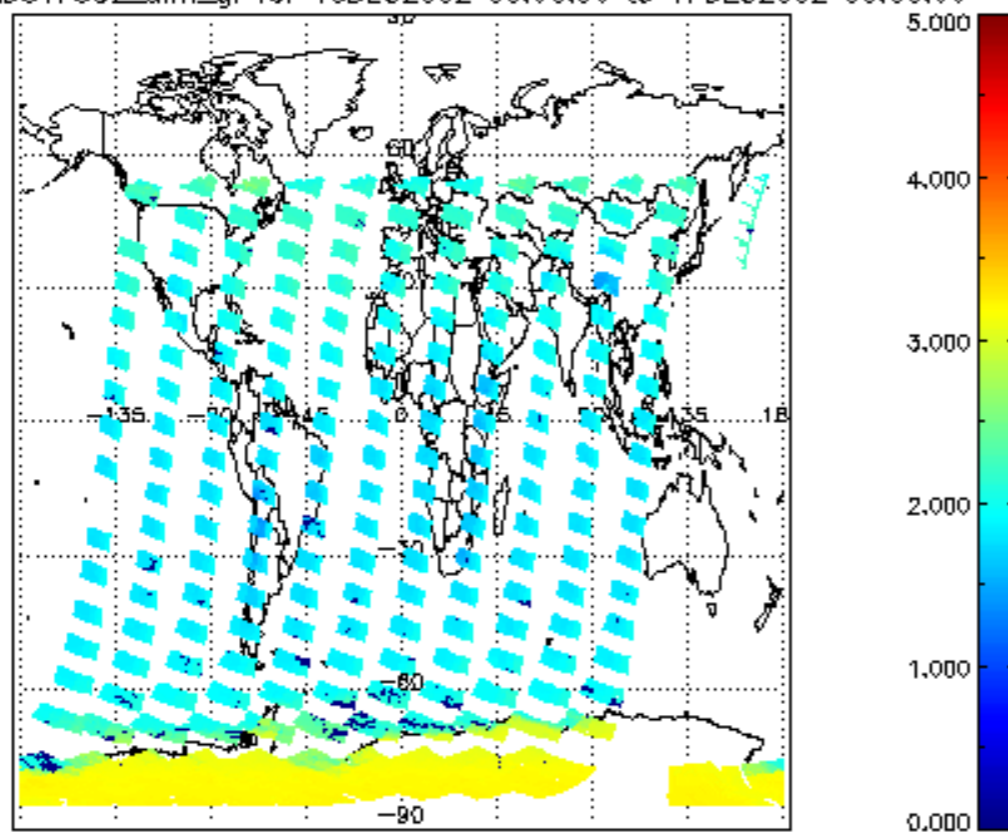
SCIOL2P\_NADUV7S02\_vcd for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



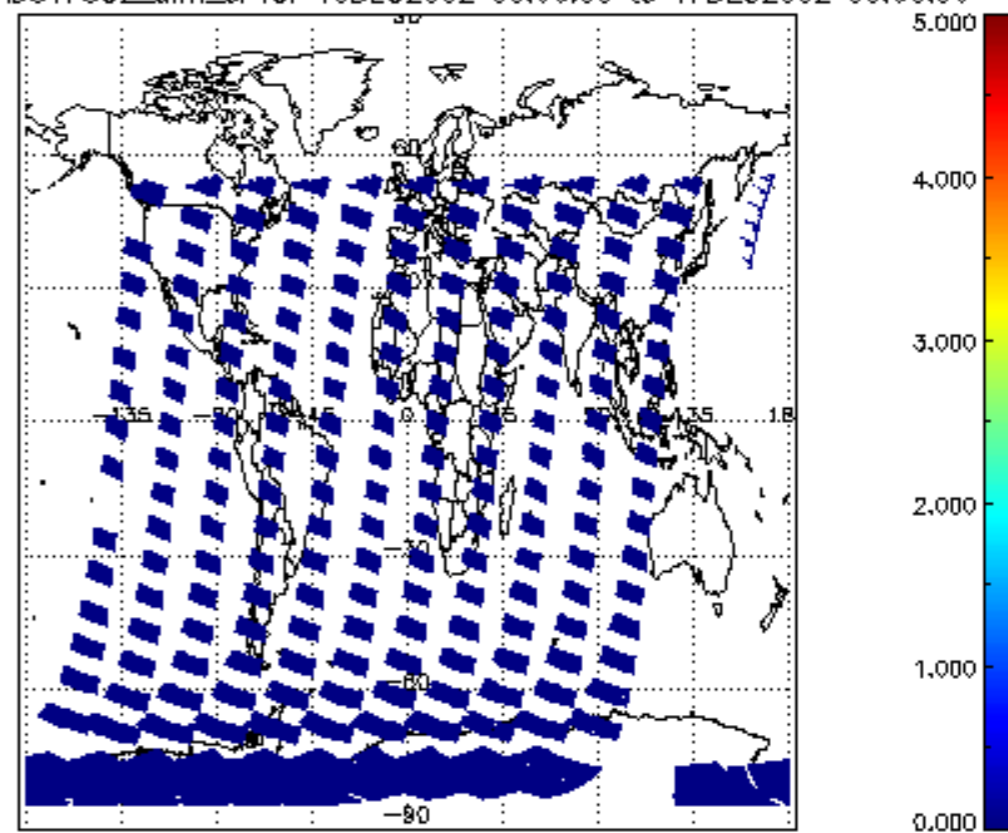
SCIOL2P\_NADUV7S02\_vcd\_err for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



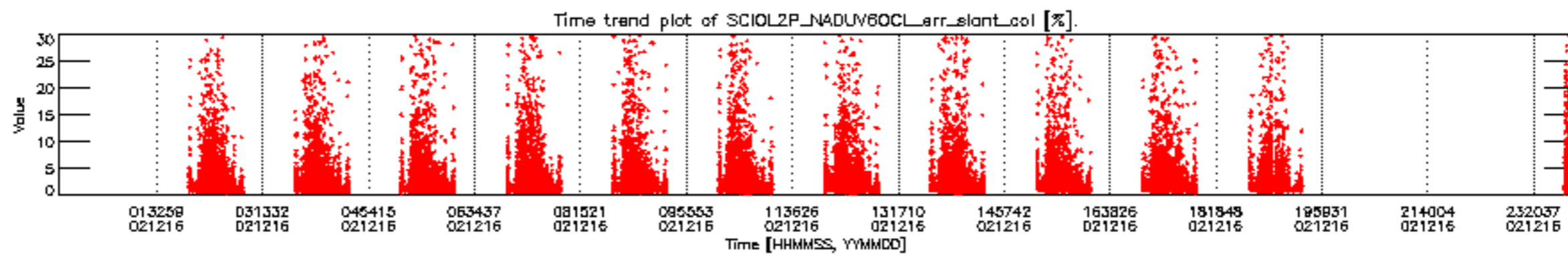
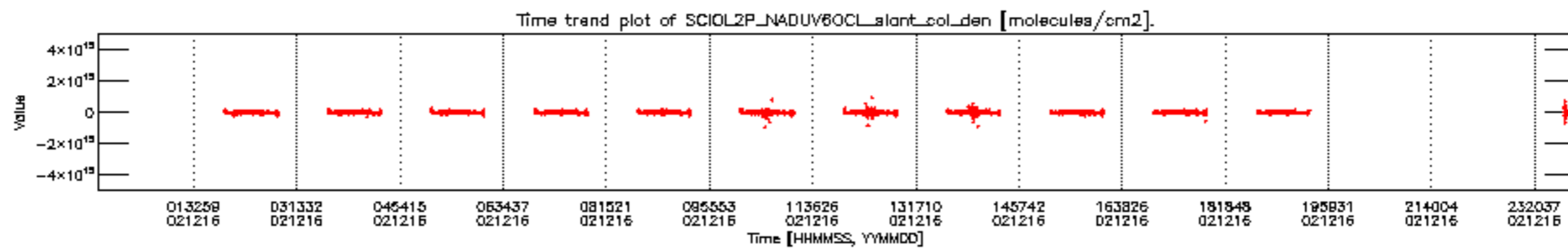
SCIOL2P\_NADUV7S02\_amf\_gr for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



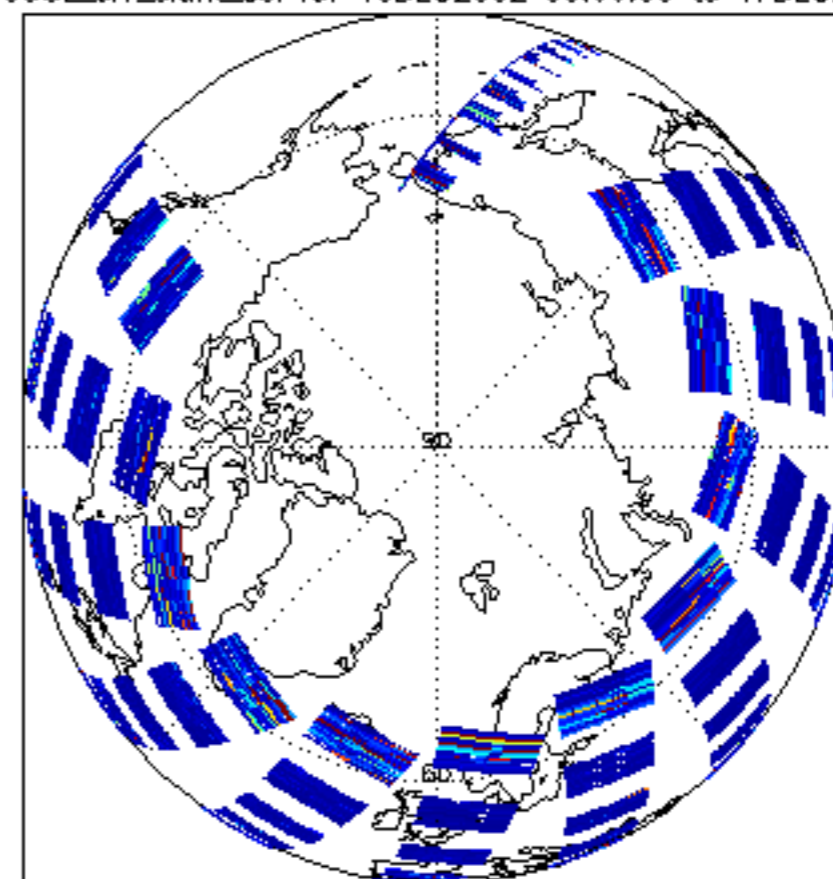
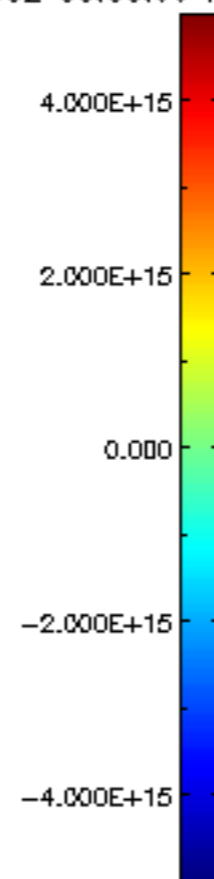
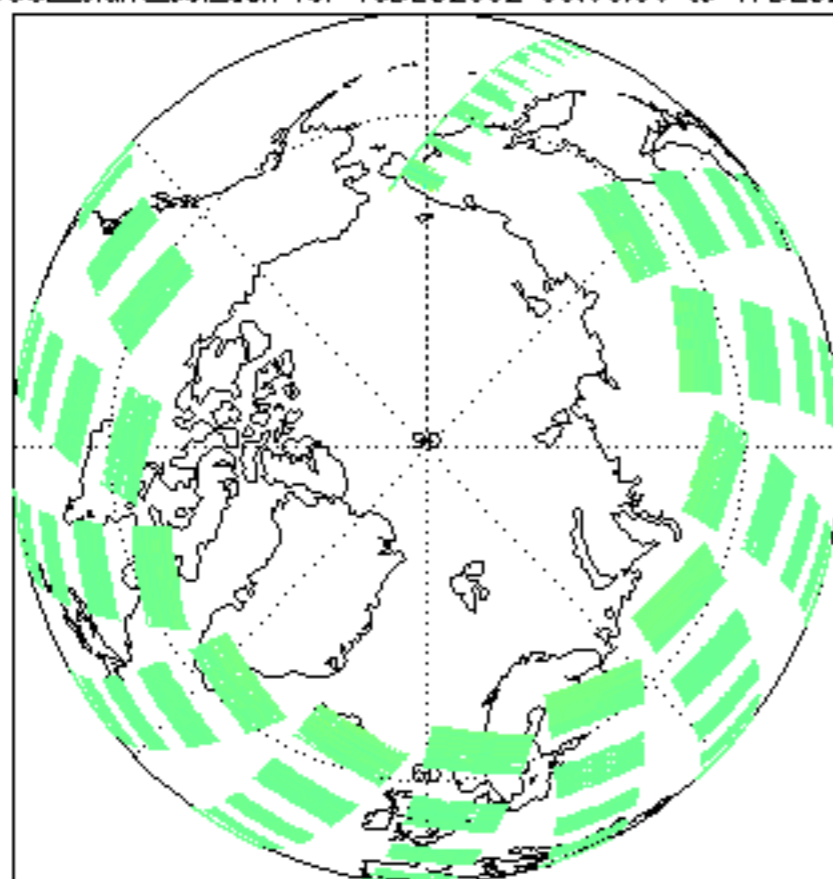
SCIOL2P\_NADUV7S02\_amf\_cl for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



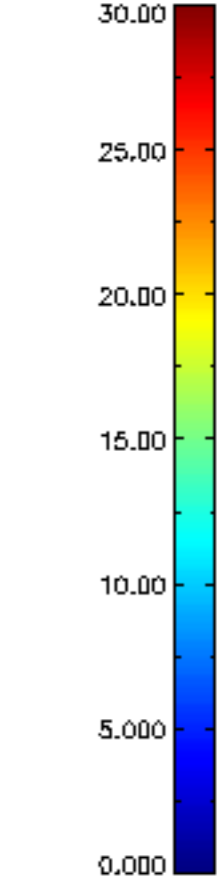
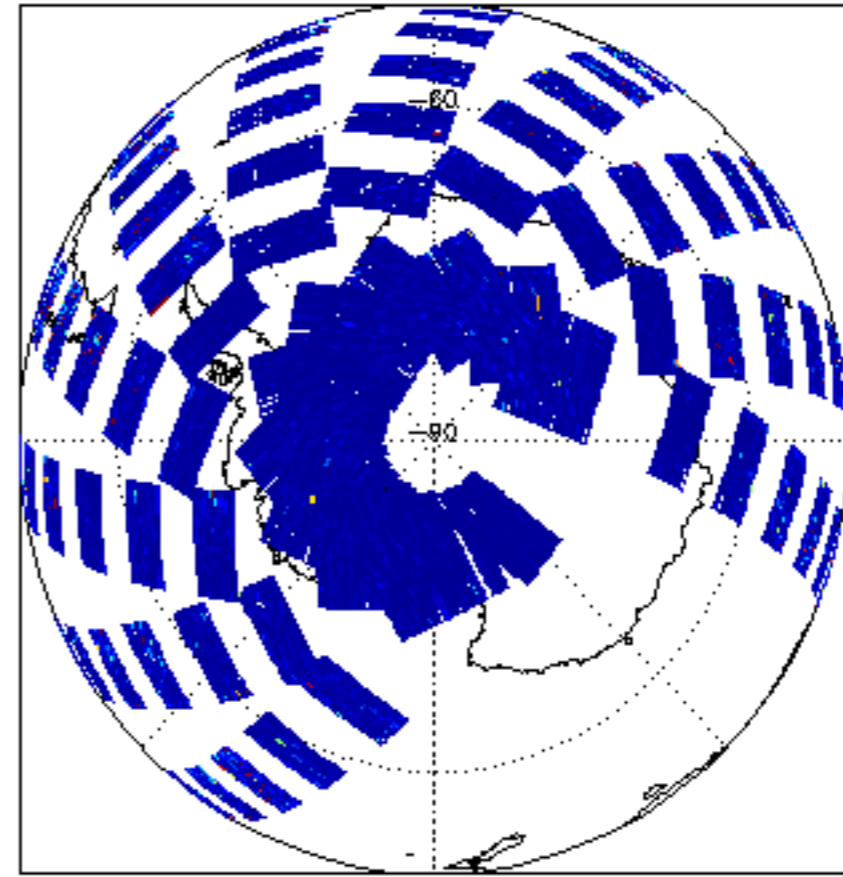
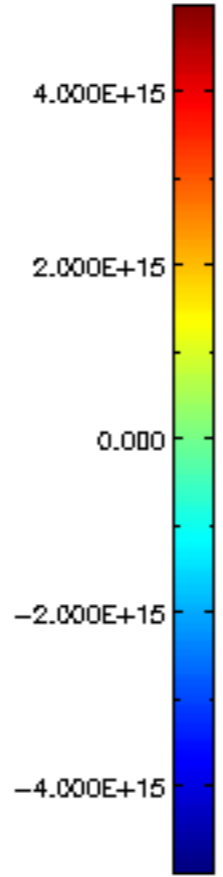
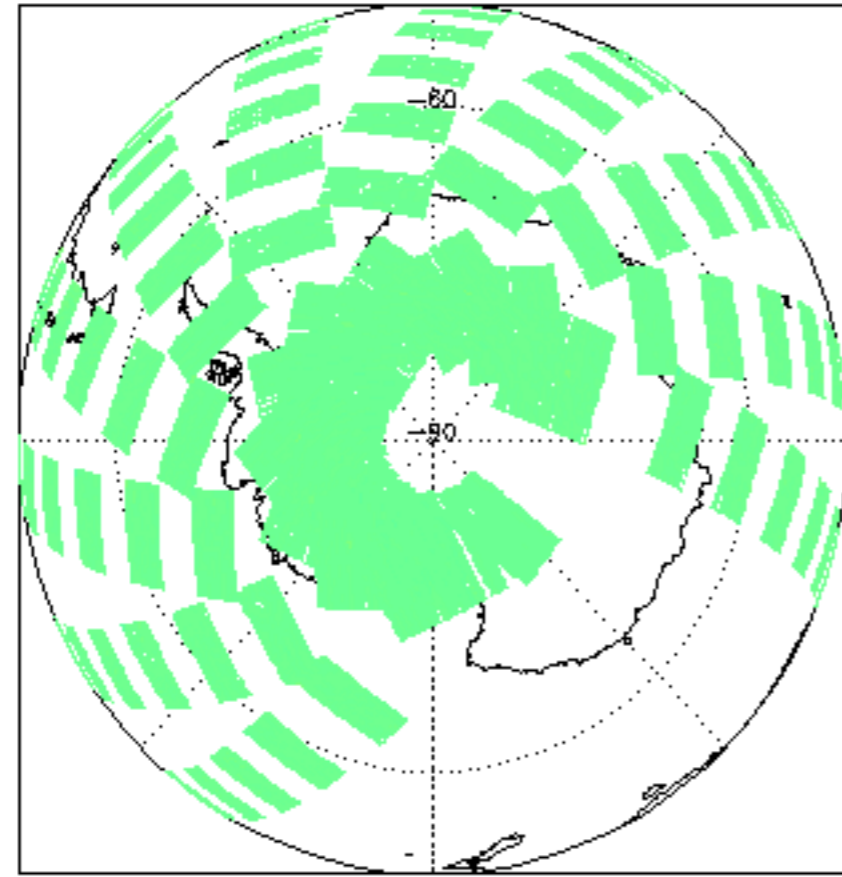


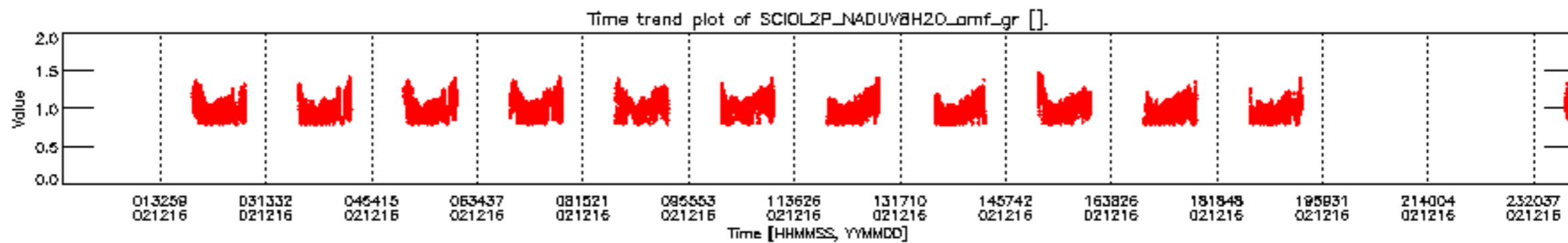
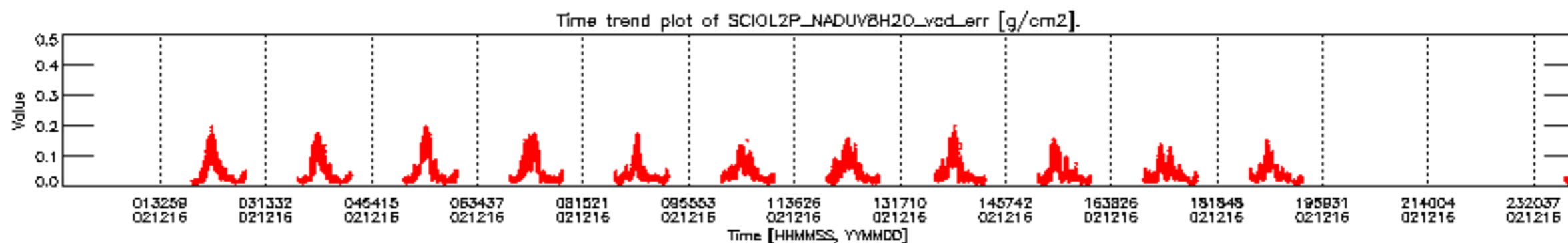
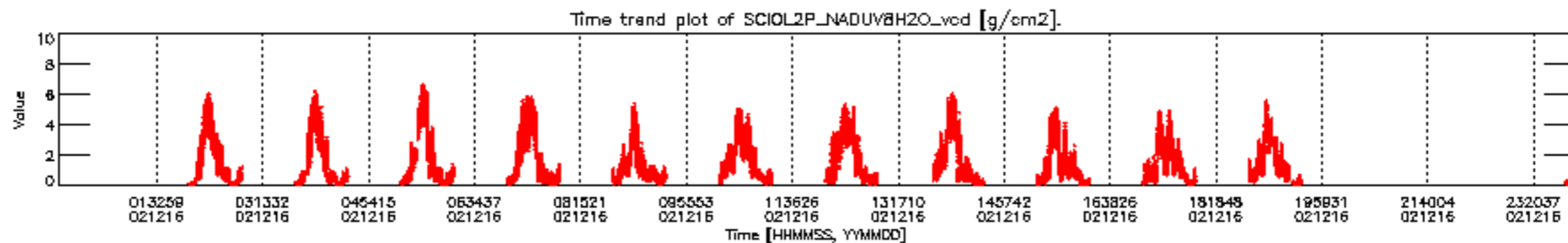


CIOL2P\_NADUV6OCL\_slant\_col\_den for 16DEC2002 00:00:00 to 17DEC2002 00:00:00 np; CIOL2P\_NADUV6OCL\_err\_slant\_col for 16DEC2002 00:00:00 to 17DEC2002 00:00:00 np

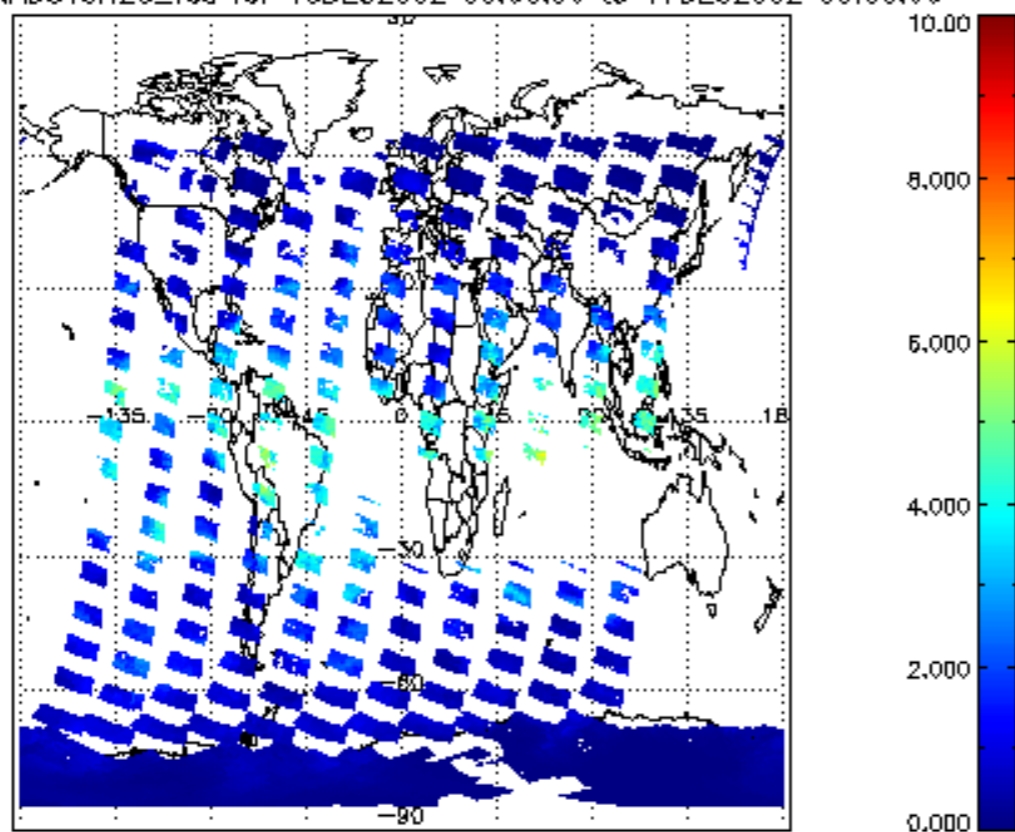


CIOL2P\_NADUV6OCL\_slant\_col\_den for 16DEC2002 00:00:00 to 17DEC2002 00:00:00 sp iCIOL2P\_NADUV6OCL\_err\_slant\_col for 16DEC2002 00:00:00 to 17DEC2002 00:00:00 sp

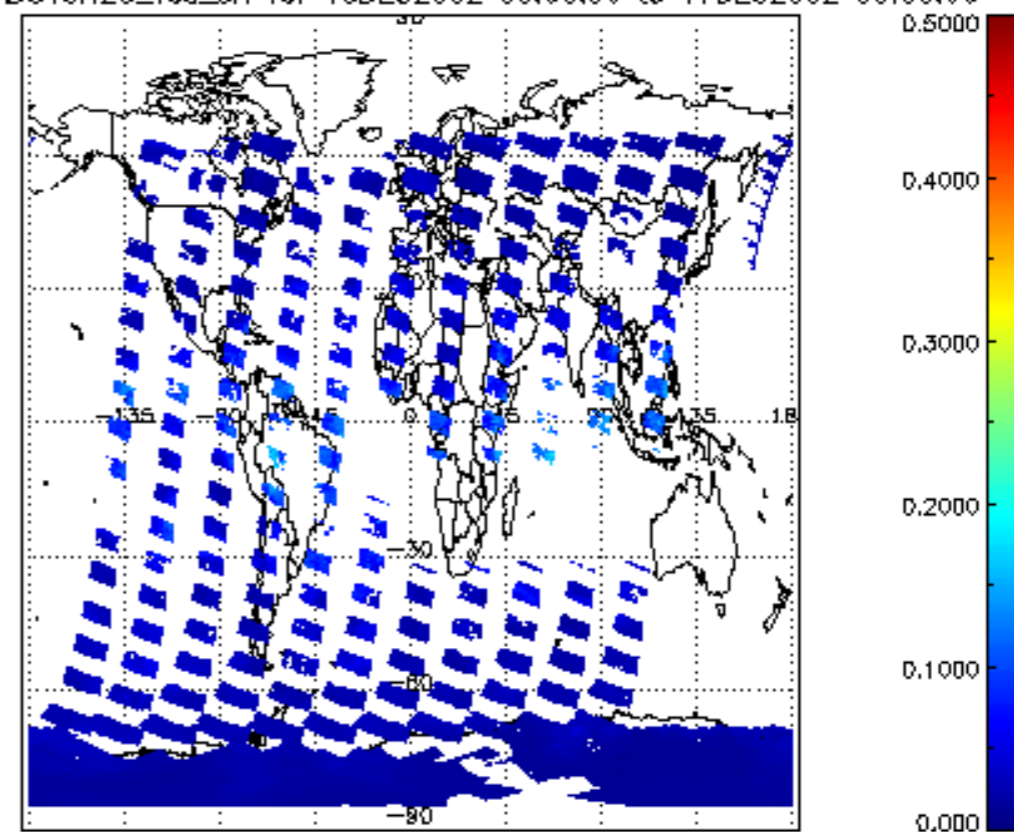




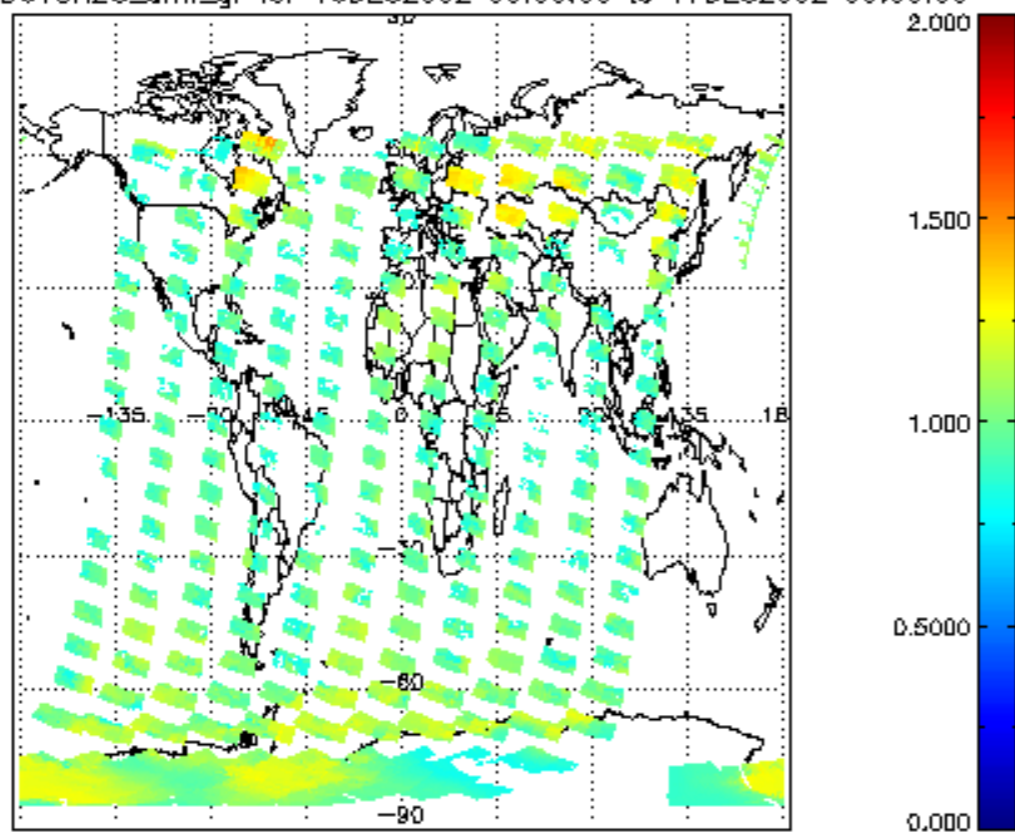
SCIOL2P\_NADUV8H2O\_vcd for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

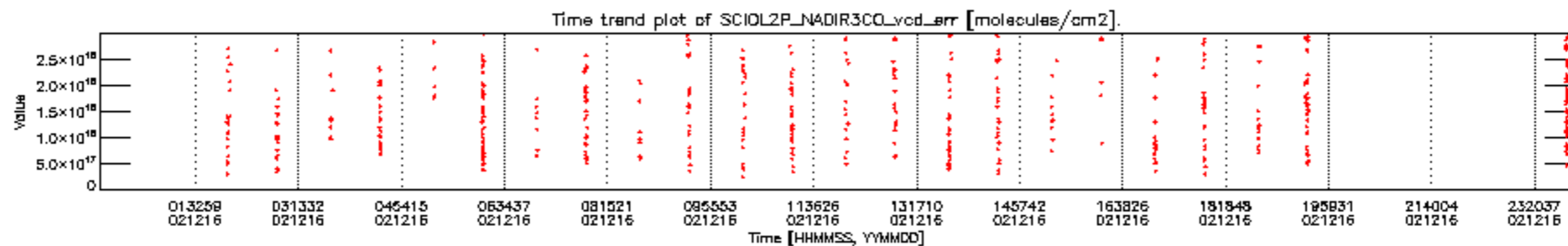
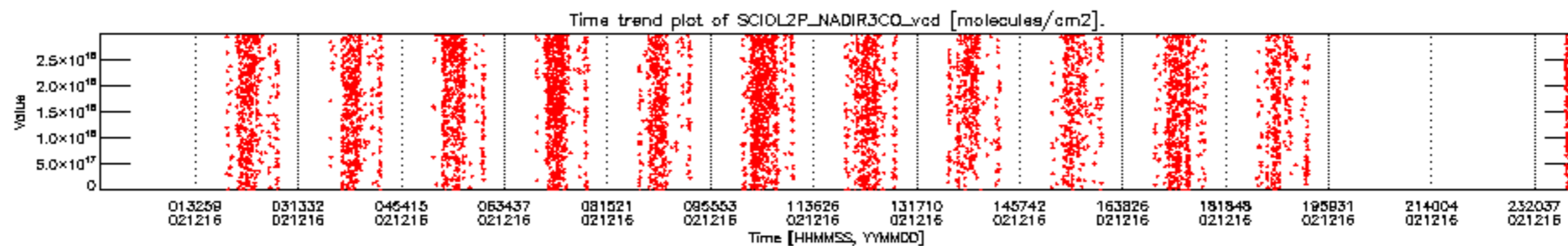


SCIOL2P\_NADUV8H2O\_vcd\_err for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

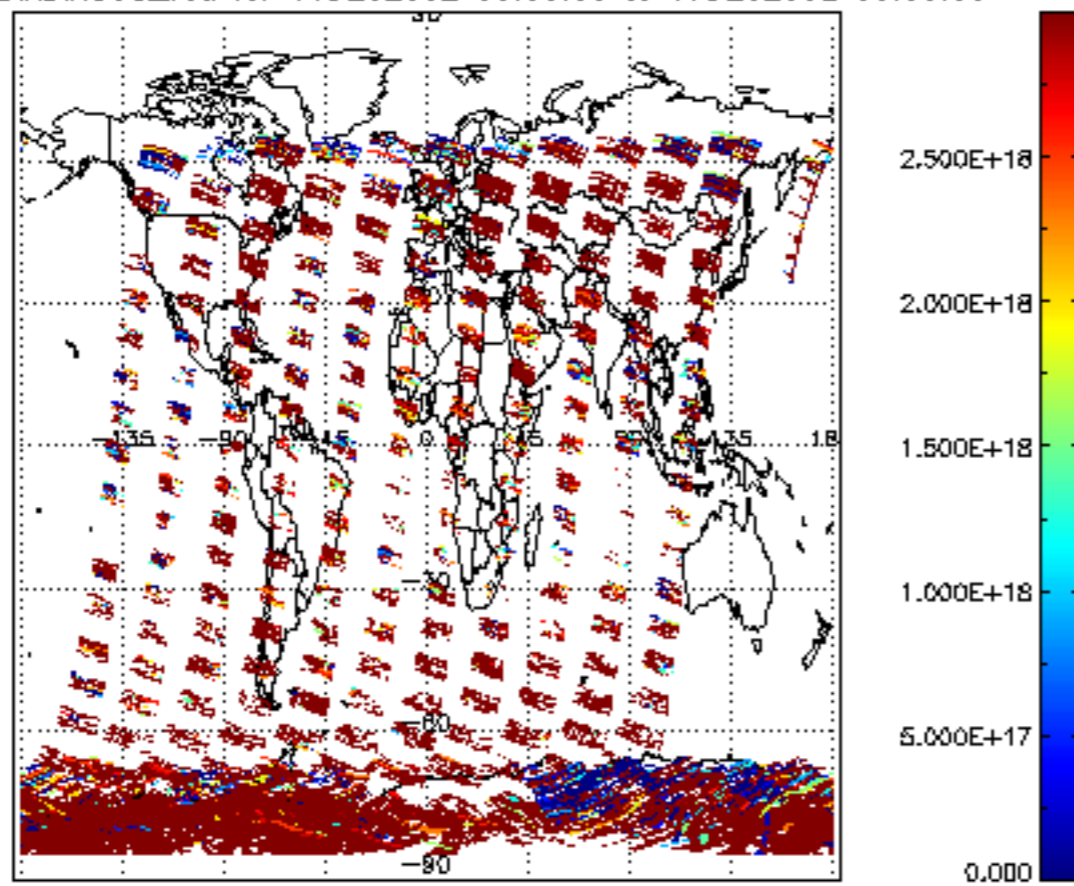


SCIOL2P\_NADUV8H2O\_amf\_gr for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

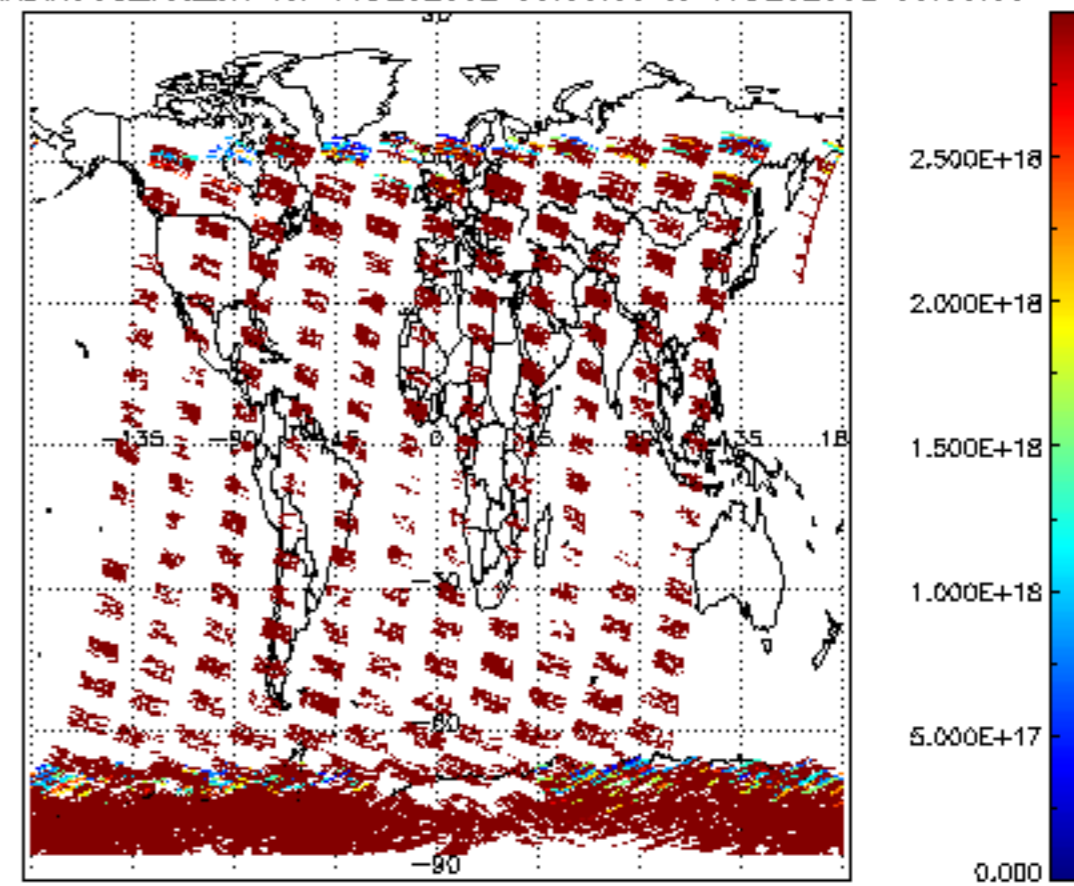




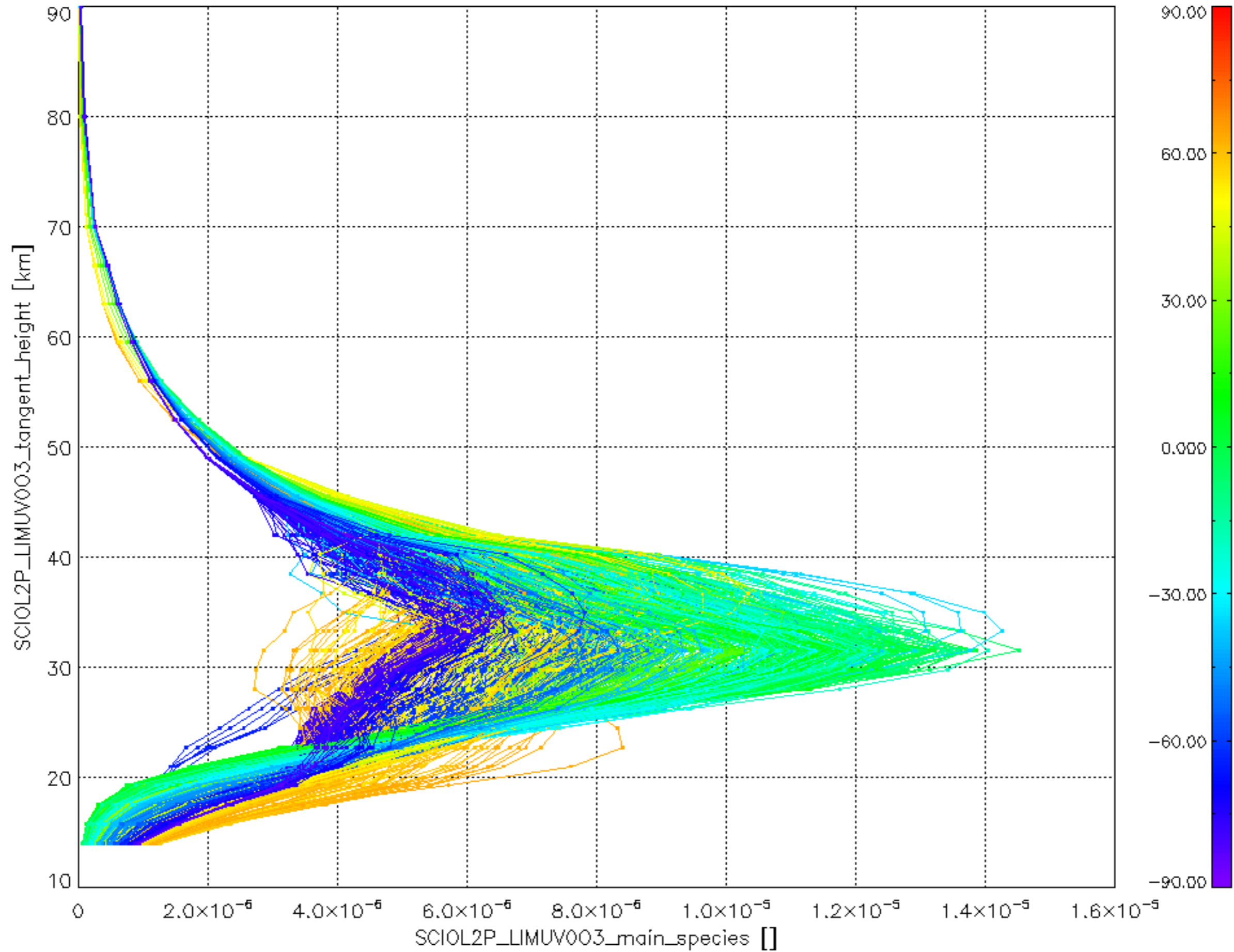
SCIOL2P\_NADIR3CO\_vcd for 16DEC2002 00:00:00 to 17DEC2002 00:00:00



SCIOL2P\_NADIR3CO\_vcdLerr for 16DEC2002 00:00:00 to 17DEC2002 00:00:00

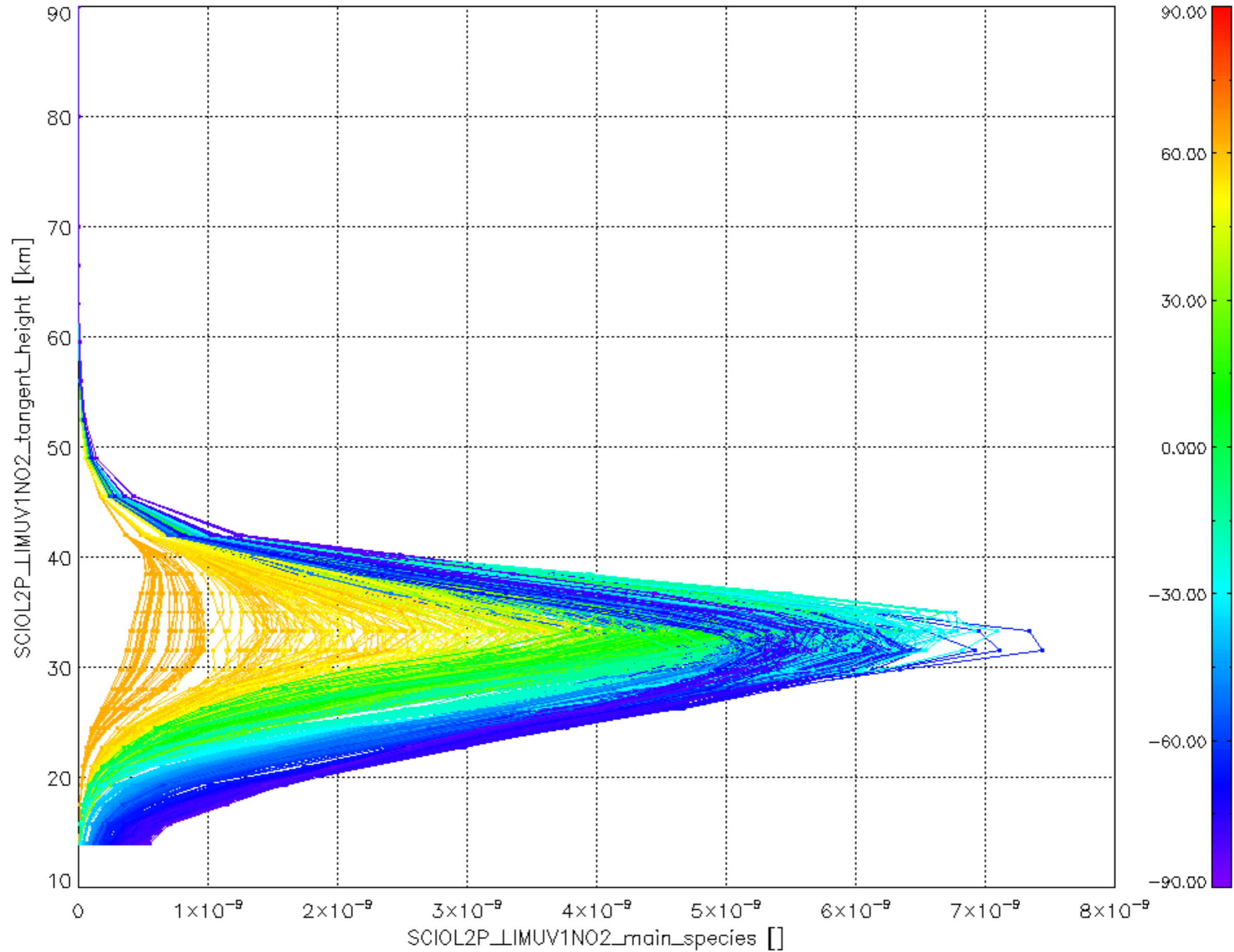


Plot of SCIOL2P\_LIMUV003\_main\_species.tang\_vmr vs. tangent height.  
 Colours indicate tangent latitude (see colour bar on the right).





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).

