

## 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	1.6 (28-07-2008)
Time of report generation	11AUG2009 09:23:30
Data source version	SCIA-OL/3.01-R
Processing scope for products	21JUL2009 00:00:00 to 22JUL2009 00:00:00
Start time of first product within scope	21JUL2009 08:19:38
Stop time of last product within scope	22JUL2009 00:16:32
Total number of level 2 products	10
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.

#	Product name	Start time	Stop time	Prod err	Fit summary
0	<a href="#">SCI_OL__2PRDPA20090721_081938_000030762081_00007_38638_3473.N1</a>	21JUL2009 08:19:38	21JUL2009 09:10:55	0	GOOD
1	<a href="#">SCI_OL__2PRDPA20090721_100123_000030202081_00008_38639_3474.N1</a>	21JUL2009 10:01:23	21JUL2009 10:51:43	0	GOOD
2	<a href="#">SCI_OL__2PRDPA20090721_114050_000030762081_00009_38640_3475.N1</a>	21JUL2009 11:40:50	21JUL2009 12:32:07	0	GOOD
3	<a href="#">SCI_OL__2PRDPA20090721_132235_000030202081_00010_38641_3476.N1</a>	21JUL2009 13:22:35	21JUL2009 14:12:55	0	GOOD
4	<a href="#">SCI_OL__2PRDPA20090721_150202_000030762081_00011_38642_3477.N1</a>	21JUL2009 15:02:02	21JUL2009 15:53:19	0	GOOD
5	<a href="#">SCI_OL__2PRDPA20090721_164404_000030202081_00012_38643_3478.N1</a>	21JUL2009 16:44:04	21JUL2009 17:34:25	0	GOOD
6	<a href="#">SCI_OL__2PRDPA20090721_182332_000030762081_00013_38644_3479.N1</a>	21JUL2009 18:23:32	21JUL2009 19:14:48	0	GOOD
7	<a href="#">SCI_OL__2PRDPA20090721_200459_000030202081_00014_38645_3480.N1</a>	21JUL2009 20:04:59	21JUL2009 20:55:20	0	GOOD
8	<a href="#">SCI_OL__2PRDPA20090721_214427_000030762081_00015_38646_3481.N1</a>	21JUL2009 21:44:27	21JUL2009 22:35:44	0	GOOD
9	<a href="#">SCI_OL__2PRDPA20090721_232612_000030202081_00016_38647_3482.N1</a>	21JUL2009 23:26:12	22JUL2009 00:16:32	0	GOOD

## 2.2 Product Quality Indicators

### 2.2.1 Cloud parameters

This is a new section that 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: 98169

Total number of cloud data DSRs with good quality flag (=0): 98169 (100.0 %)

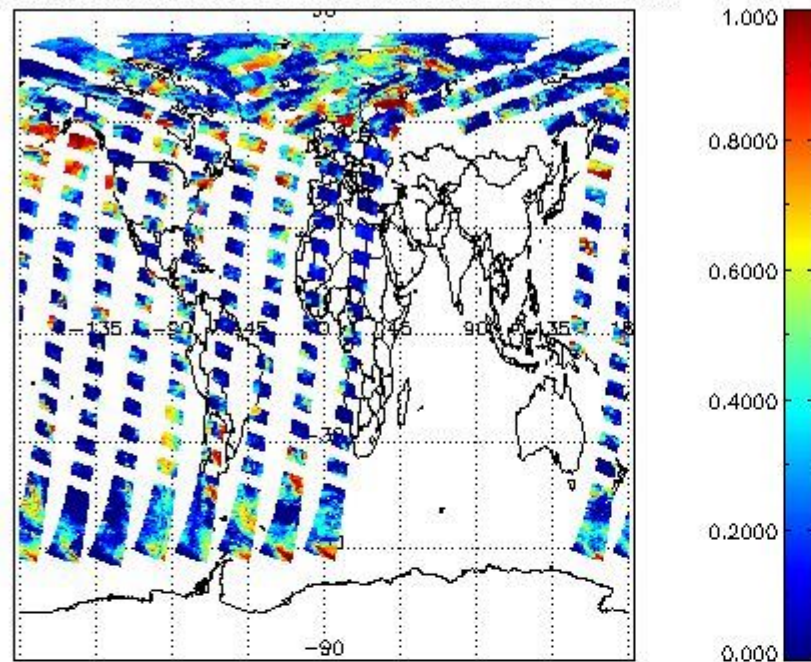
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	98169	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	98169	0.17187	0.12500	0.12500	0.25000	0.060514	s
CL_FRAC	98169	0.27480	0.20294	0.0000	1.0000	0.27196	-
CL_FRAC_ERR	98169	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	98169	5.4998	4.0000	4.0000	8.0000	1.9365	
PMD_READ_CL[0]	98169	0.14076	0.0000	0.0000	8.0000	0.86239	-
PMD_READ_CL[1]	98169	1.8603	0.0000	0.0000	8.0000	2.6584	-
CL_TOP_HEIGHT	84442	3.1149	1.2730	0.0000	17.000	3.7215	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	84442	55.632	59.485	0.0000	101.00	45.104	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	98169	11100000	11100000	11100000	11100000	0.0000	flags
CLOUD_FLAGS	98169	11001101	11000100	11000000	11100000	3619.2	flags
AERO_ABSO_IND	98169	4.2851	5.0349	-0.63683	14.861	2.7153	
AERO_IND_DIAG	98169	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	98169	01011010	00000000	00000000	11000000	24535.	flags

### Time and geolocation plots:

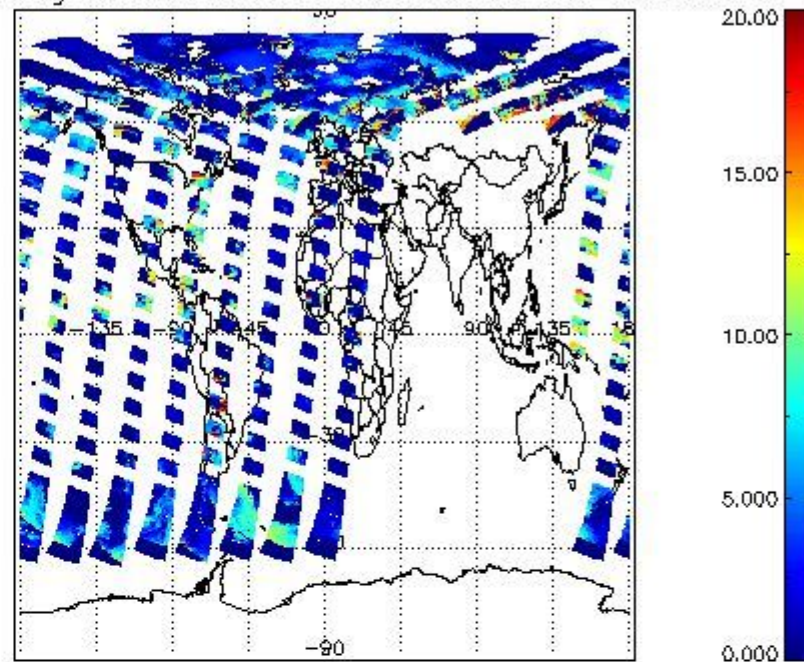
Plots are available for the following parameters:

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

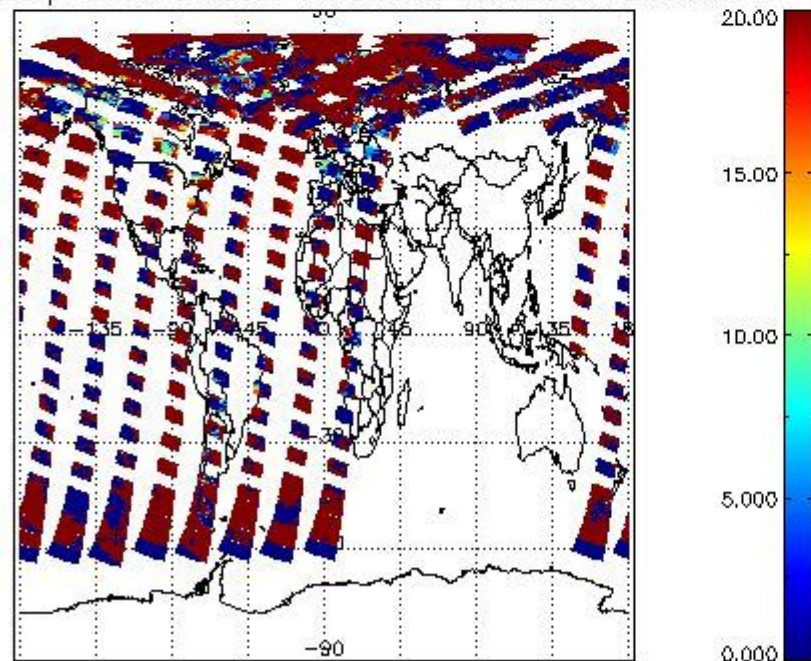
cL\_frac for 21JUL2009 00:00:00 to 22JUL2009 00:00:00



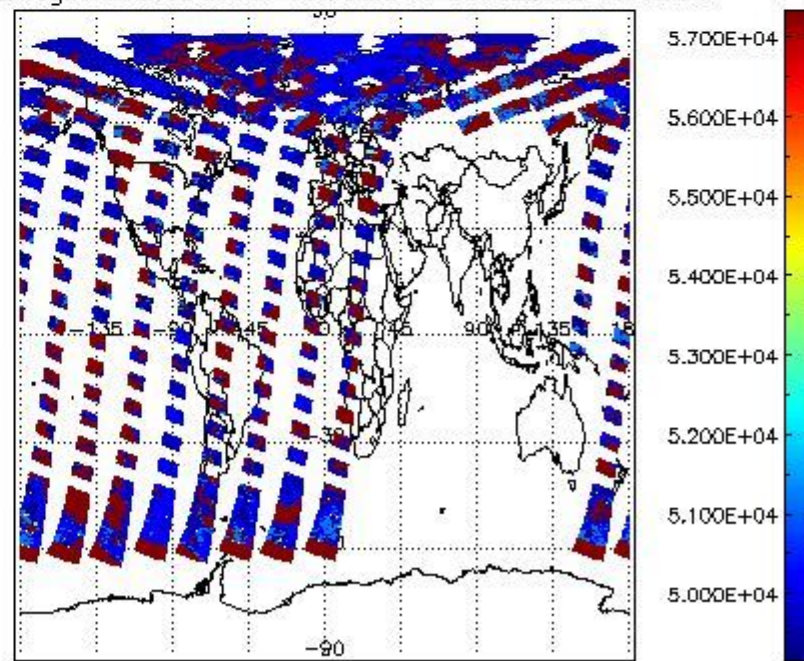
cL\_top\_height for 21JUL2009 00:00:00 to 22JUL2009 00:00:00



cL\_opt\_depth for 21JUL2009 00:00:00 to 22JUL2009 00:00:00



cloud\_flags for 21JUL2009 00:00:00 to 22JUL2009 00:00:00



## 2.2.2 Nadir

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

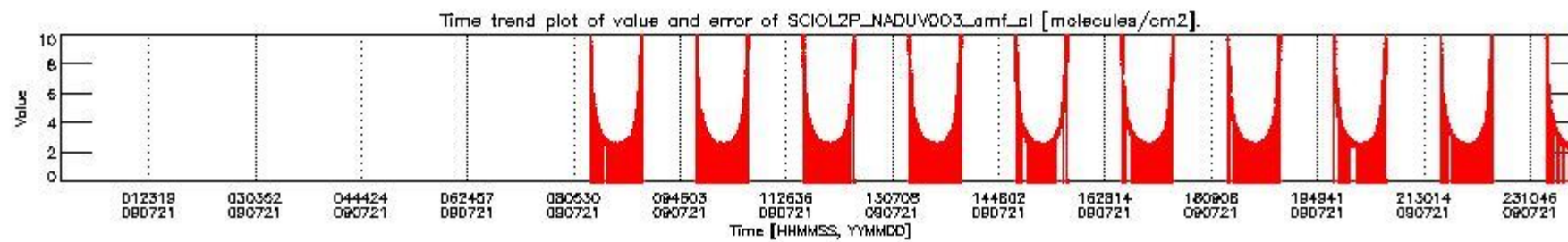
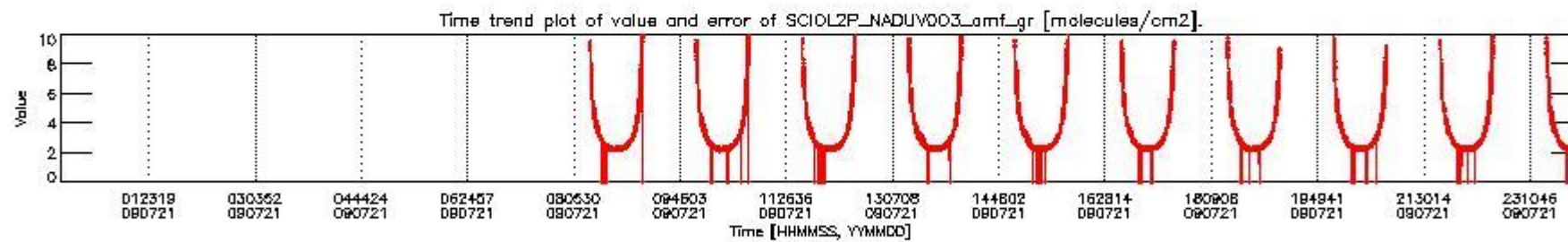
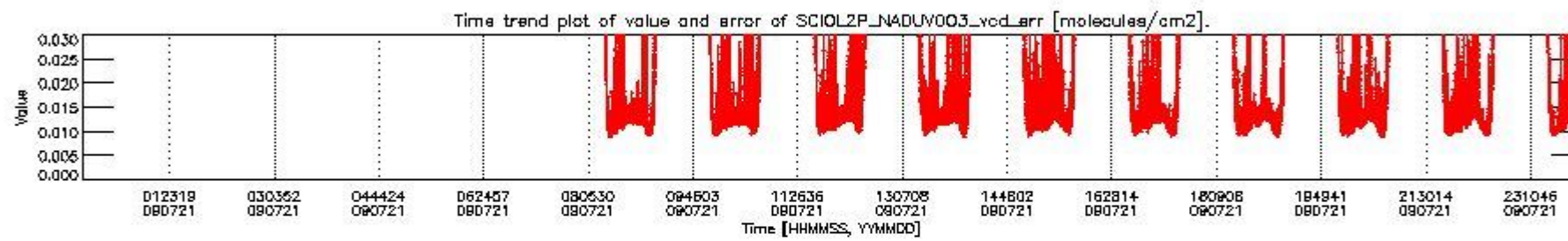
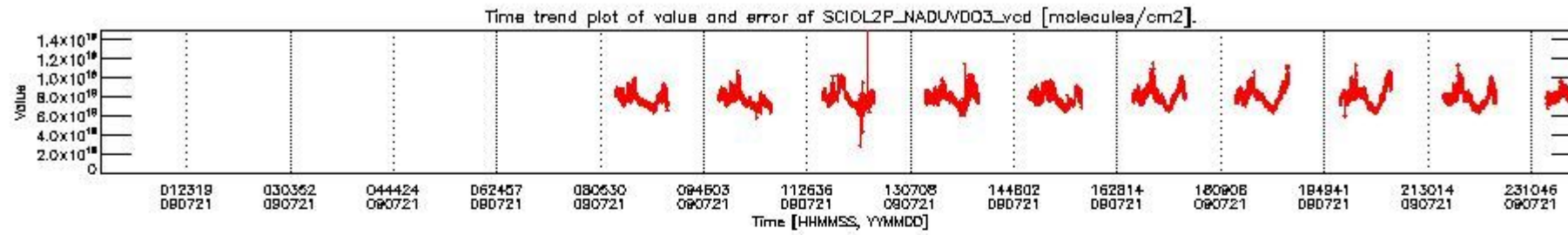
The following data items are currently included into this section:

Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr



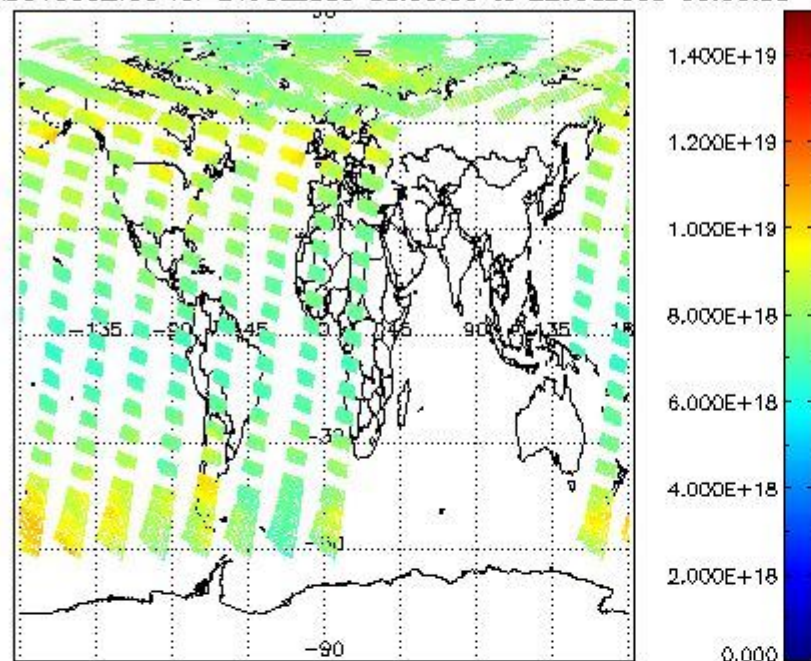
3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

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.

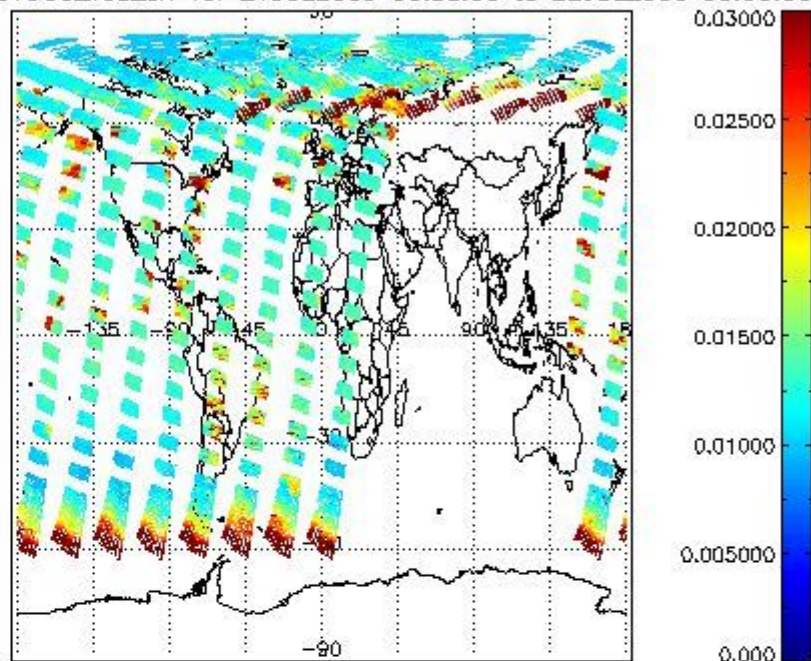




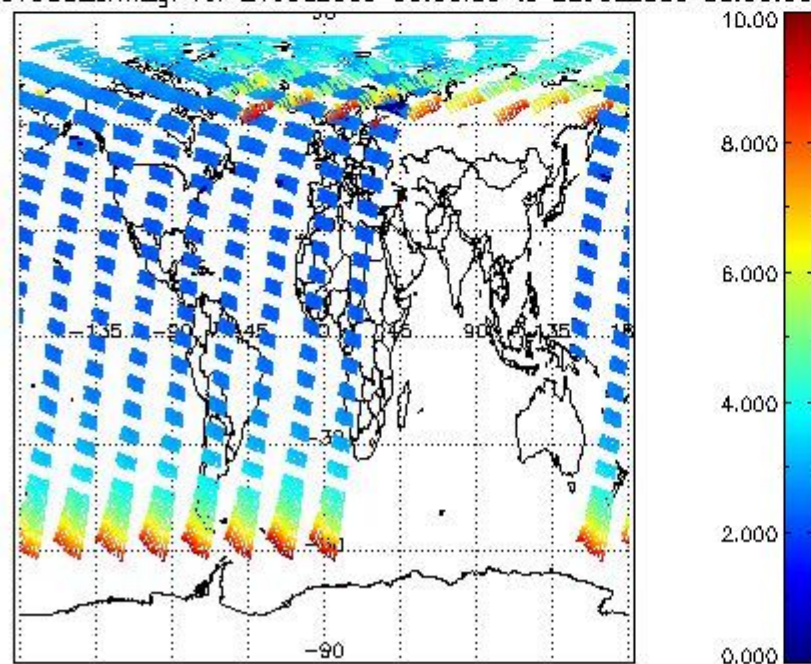
SCIOL2P\_NADUV003\_vcd for 21JUL2009 00:00:00 to 22JUL2009 00:00:00



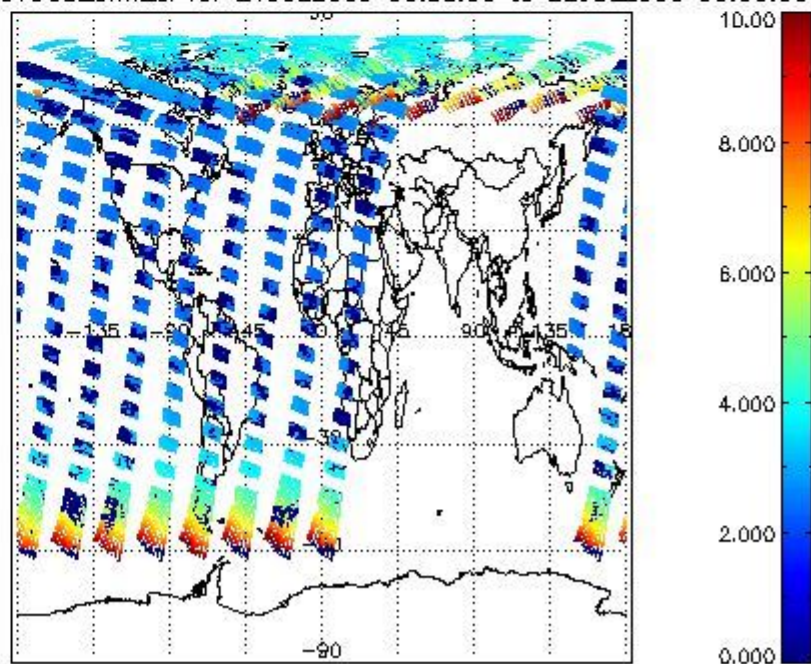
SCIOL2P\_NADUV003\_vcd\_err for 21JUL2009 00:00:00 to 22JUL2009 00:00:00



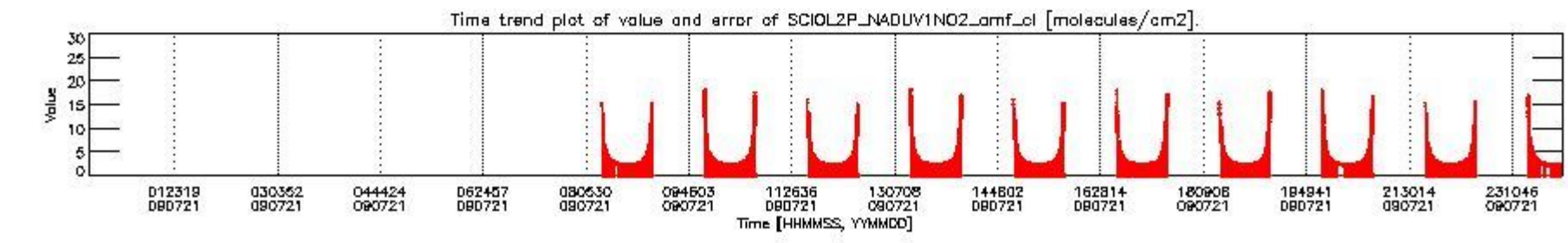
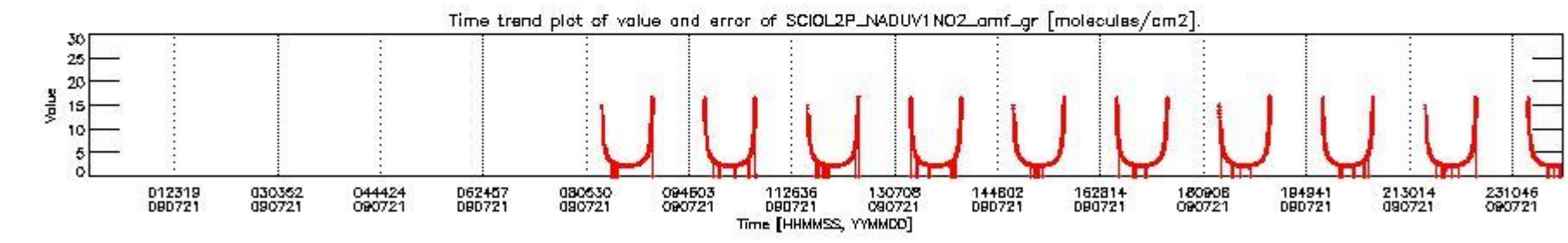
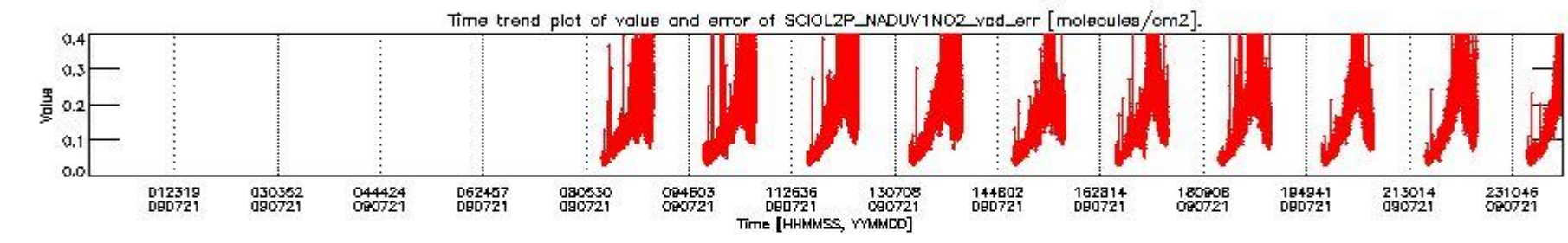
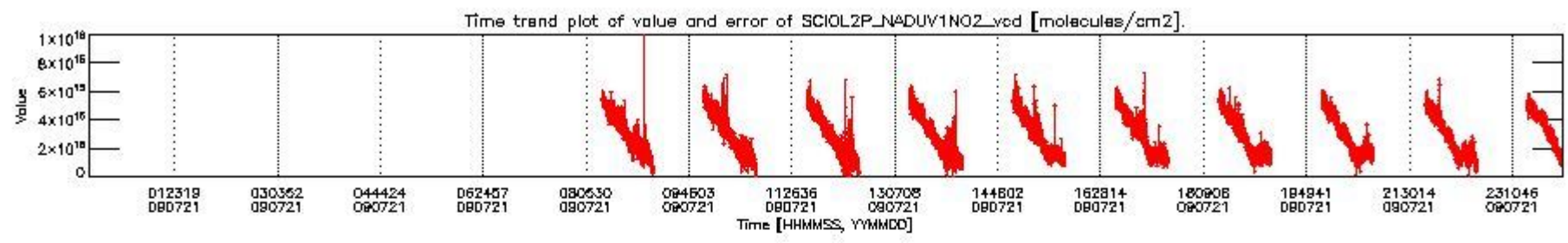
SCIOL2P\_NADUV003\_amf\_gr for 21JUL2009 00:00:00 to 22JUL2009 00:00:00



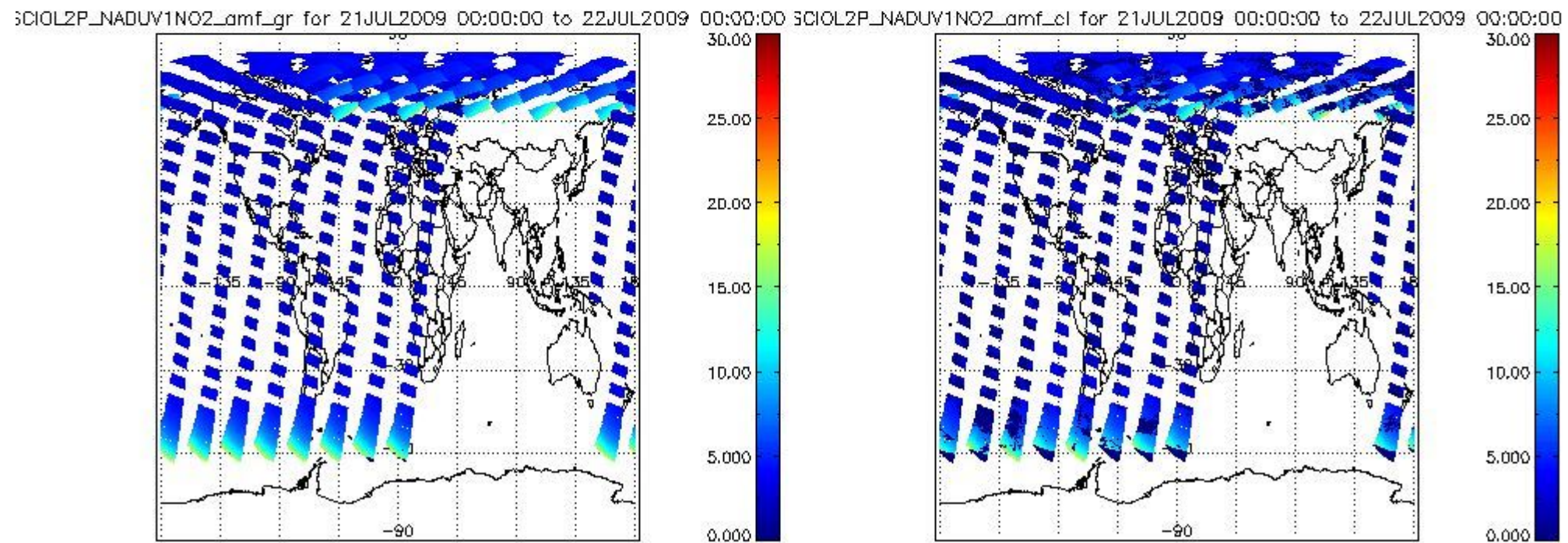
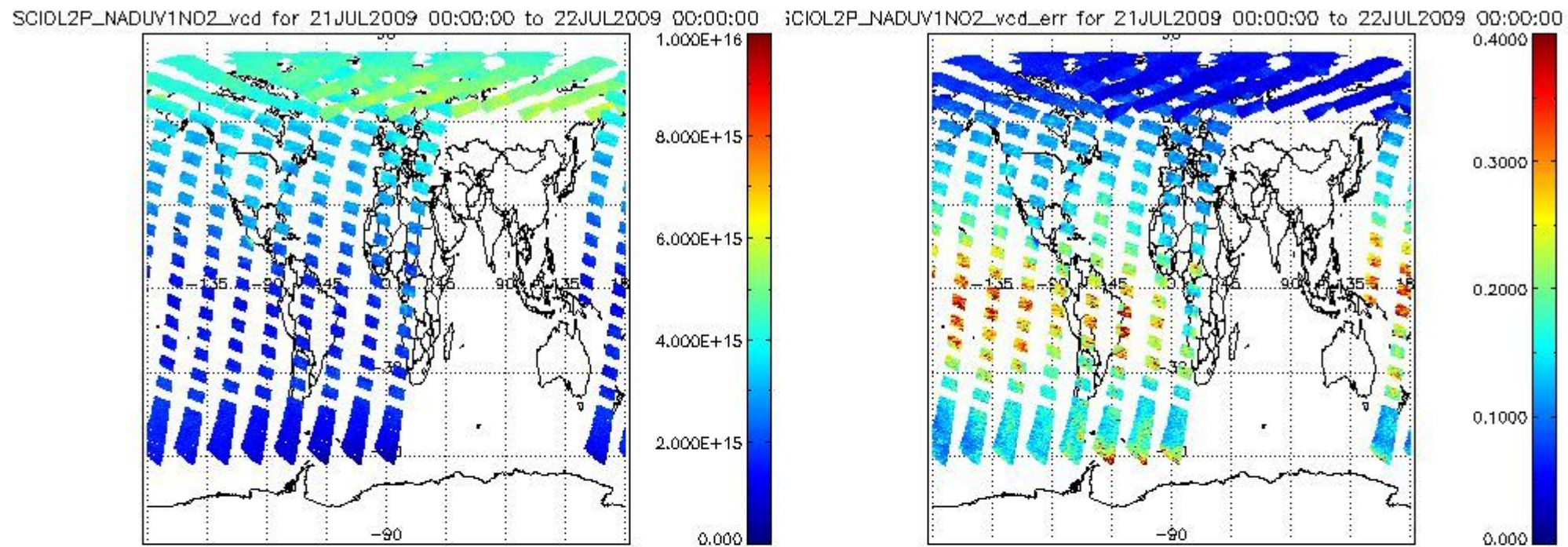
SCIOL2P\_NADUV003\_amf\_cl for 21JUL2009 00:00:00 to 22JUL2009 00:00:00











### 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	SCIOL2PLIMUV003_main_species
1	SCIOL2PLIMUV1NO2_main_species

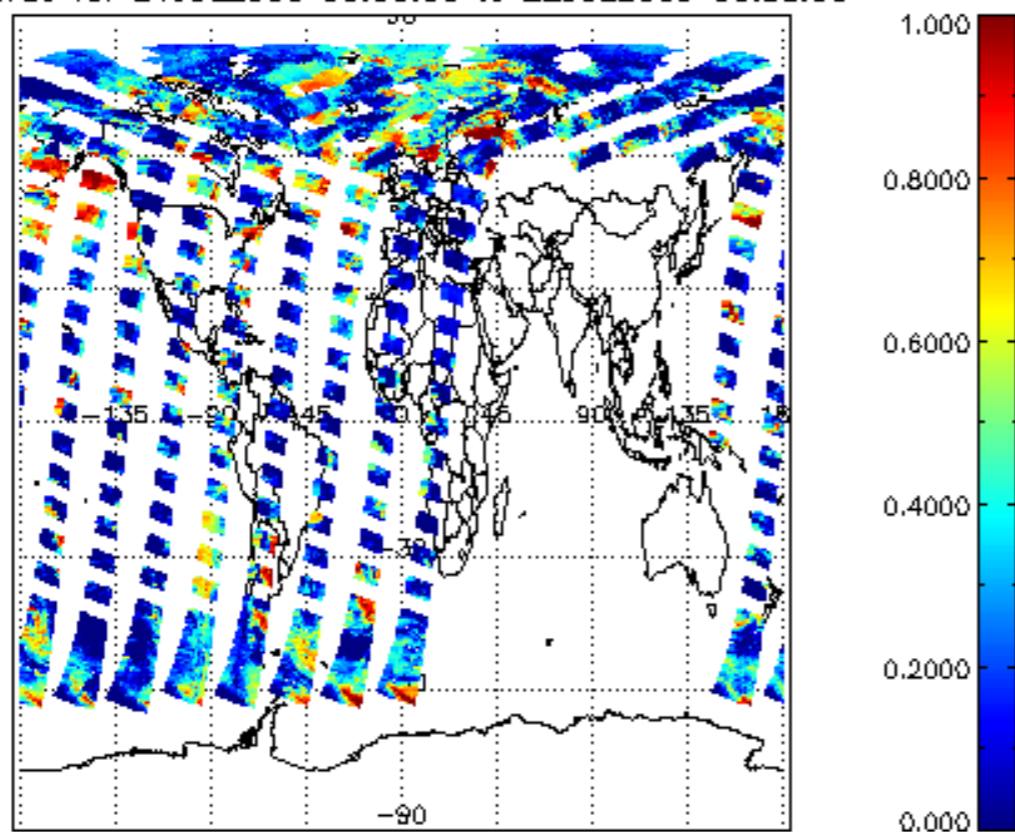
The following plots shows for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

## 2.3 ADF monitoring

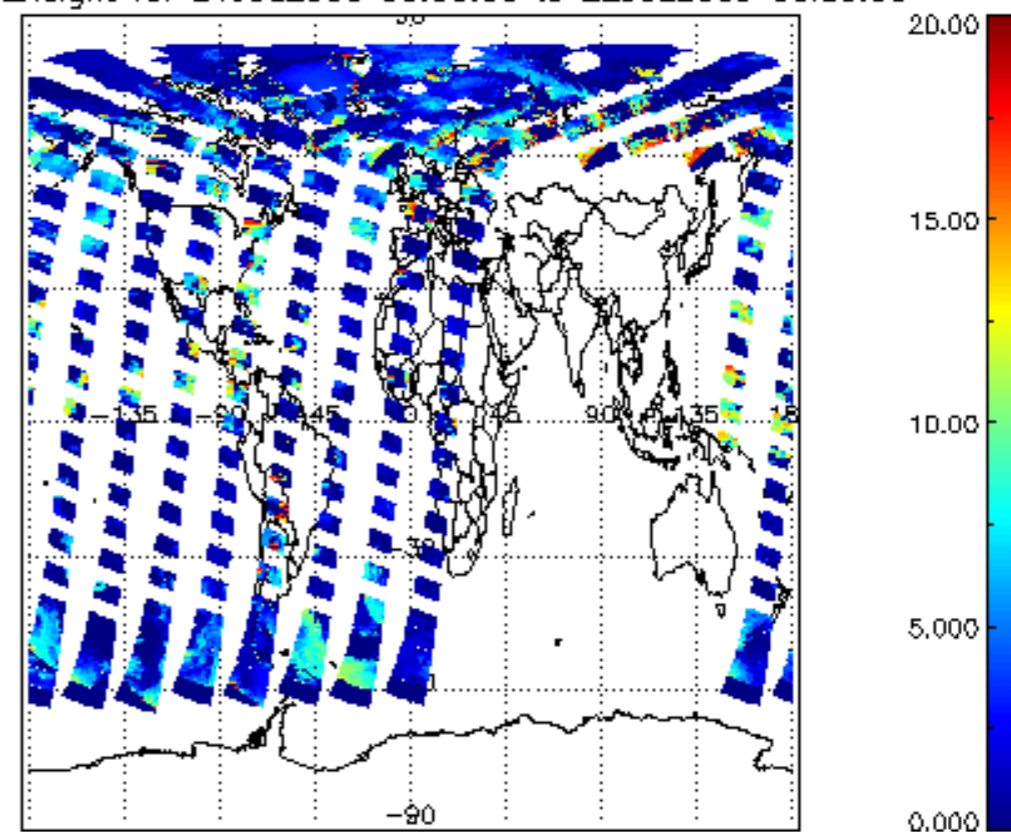
Number	ADF
	<b>IN_ (INITIALISATION_FILE)</b>
0	SCI_IN_AXNPDE20070629_092400_20070720_000000_20991231_235959
	<b>ECF (ECMWF_FILE)</b>
1	NOT USED



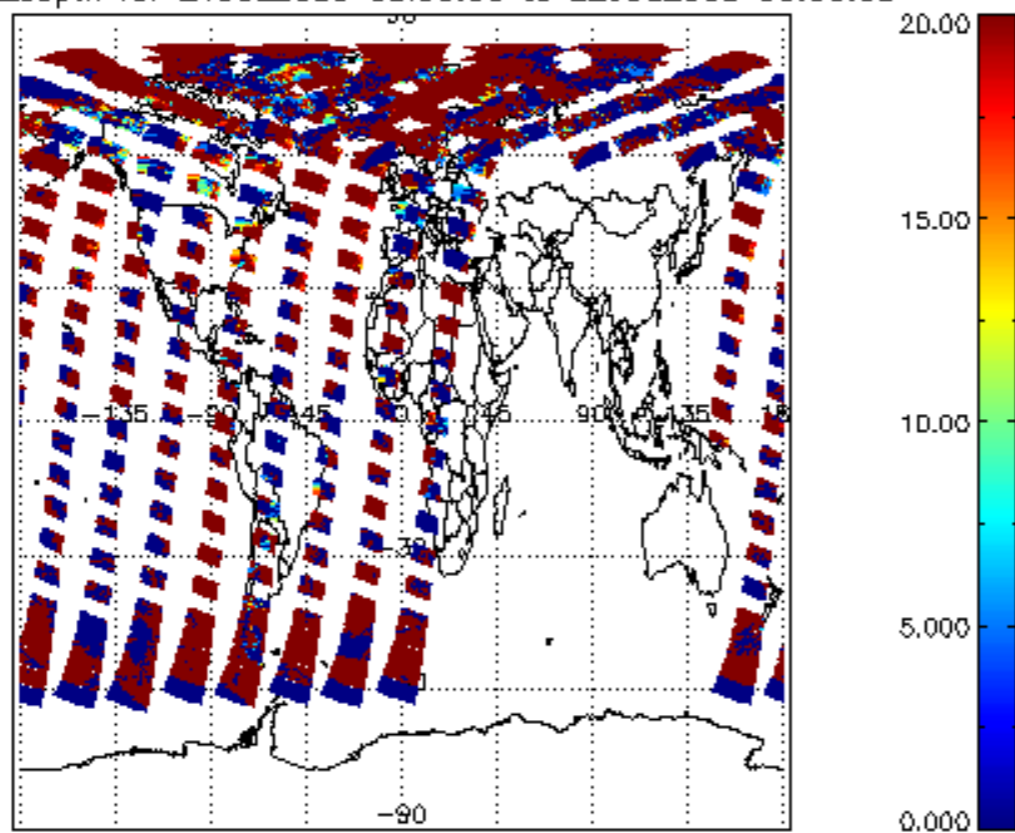
cl\_frac for 21JUL2009 00:00:00 to 22JUL2009 00:00:00



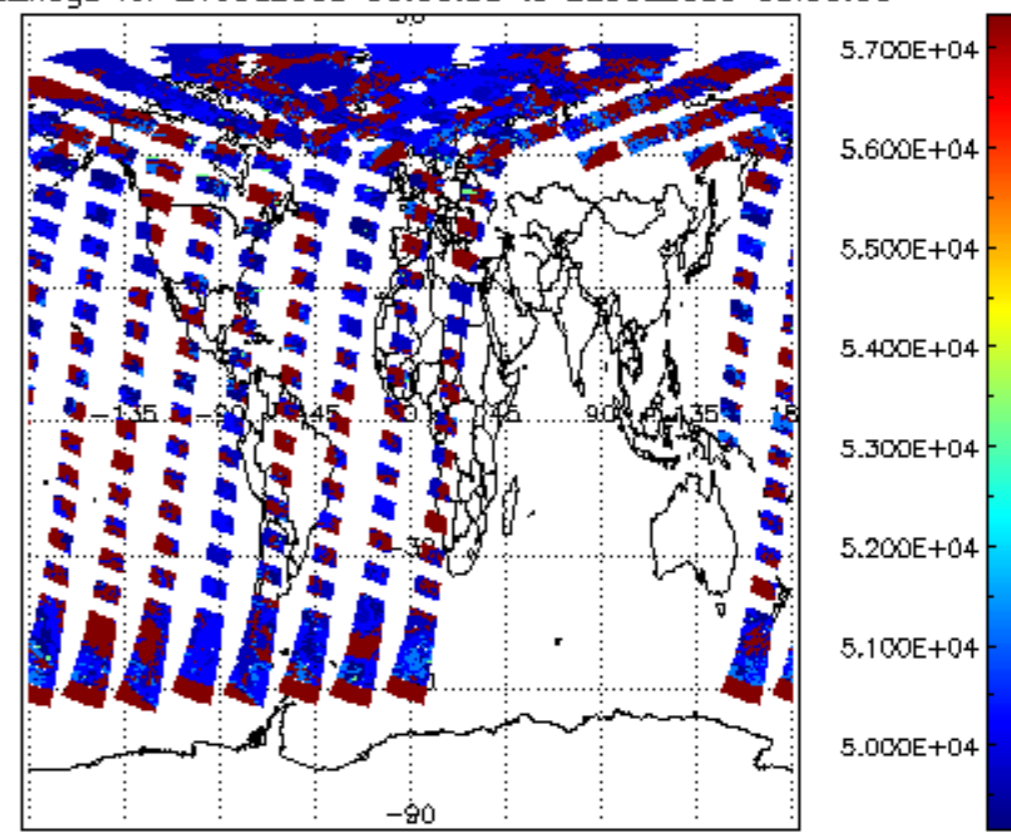
cl\_top\_height for 21JUL2009 00:00:00 to 22JUL2009 00:00:00

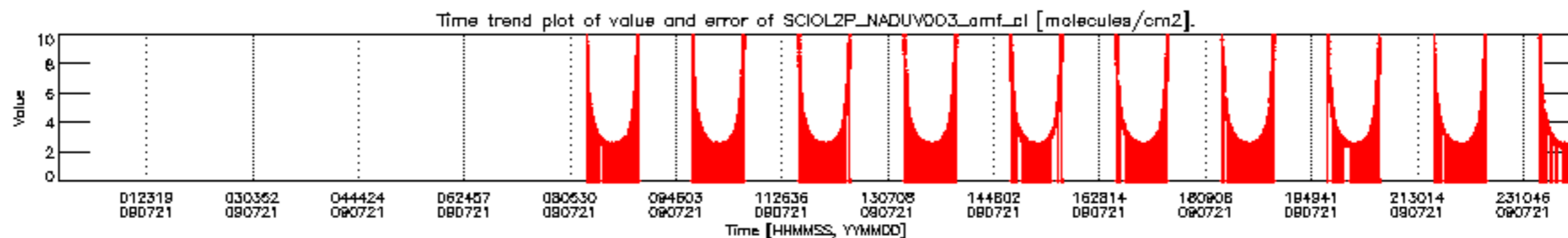
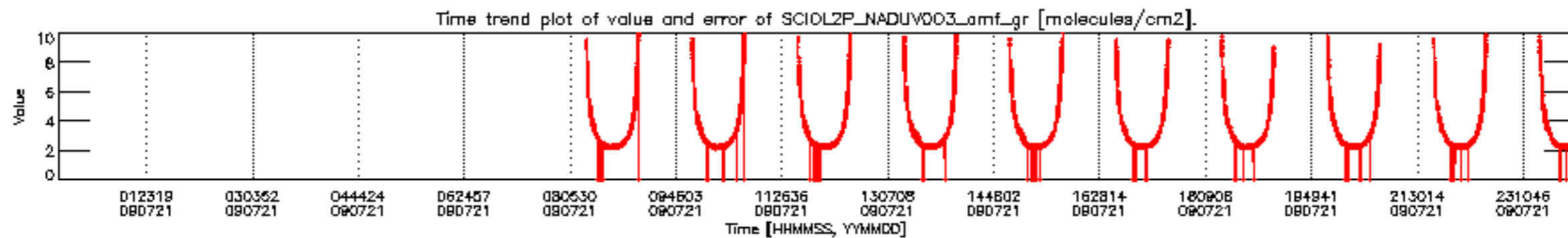
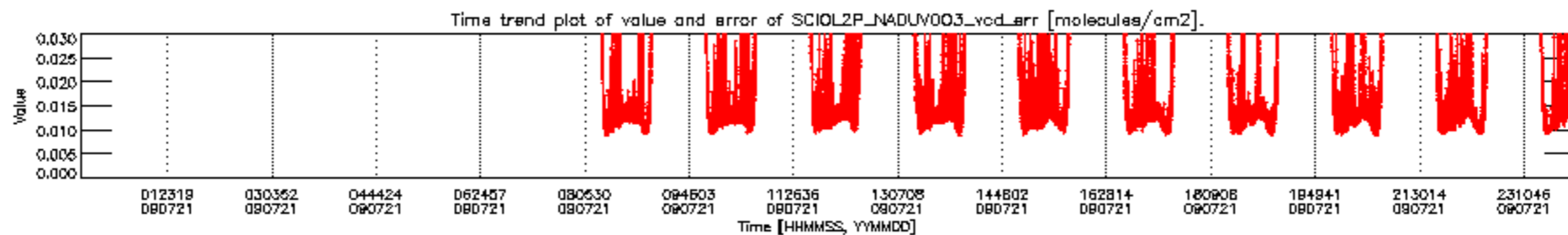
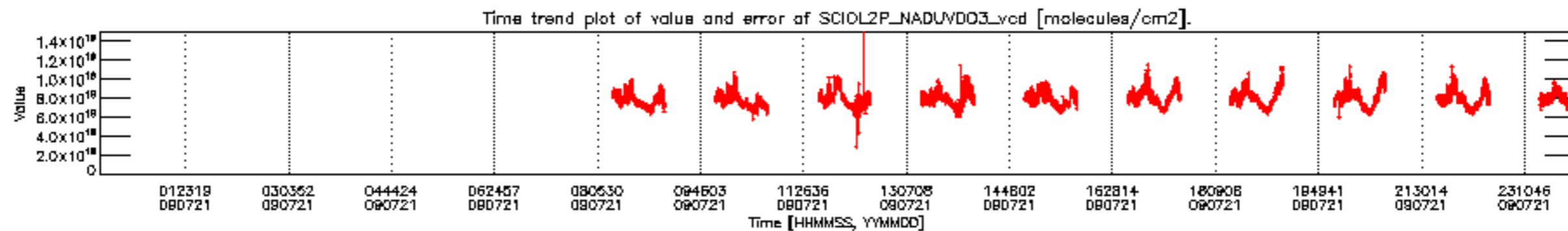


cl\_lopt\_depth for 21JUL2009 00:00:00 to 22JUL2009 00:00:00



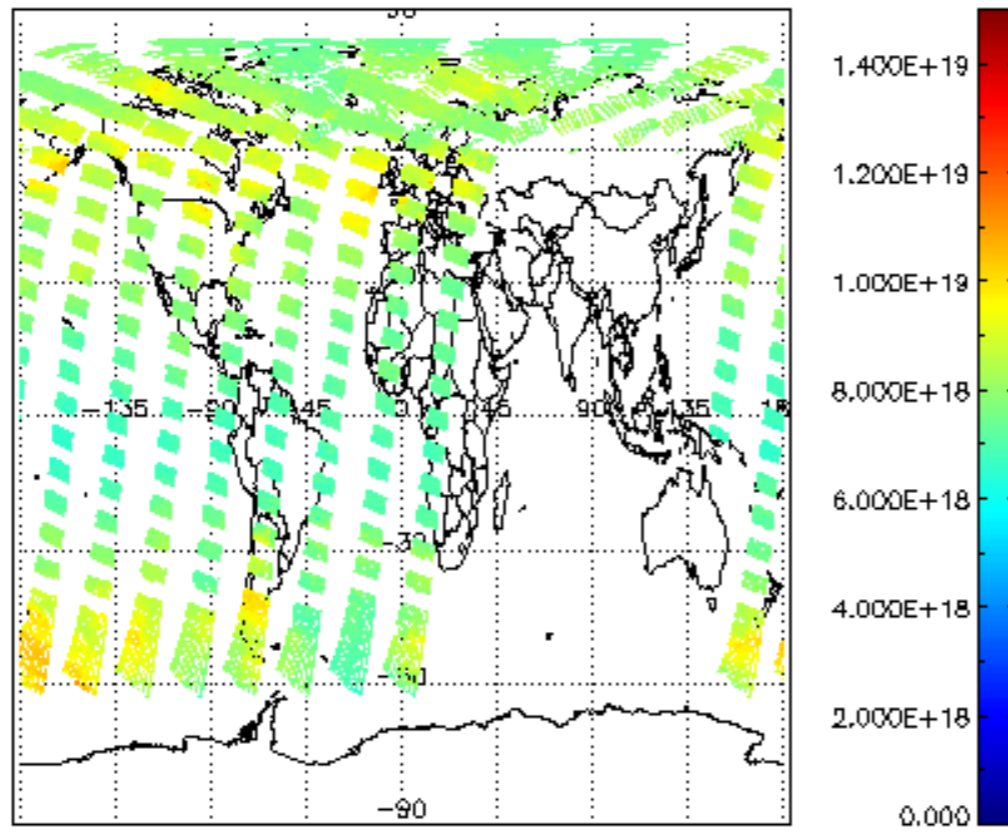
cloud\_flags for 21JUL2009 00:00:00 to 22JUL2009 00:00:00



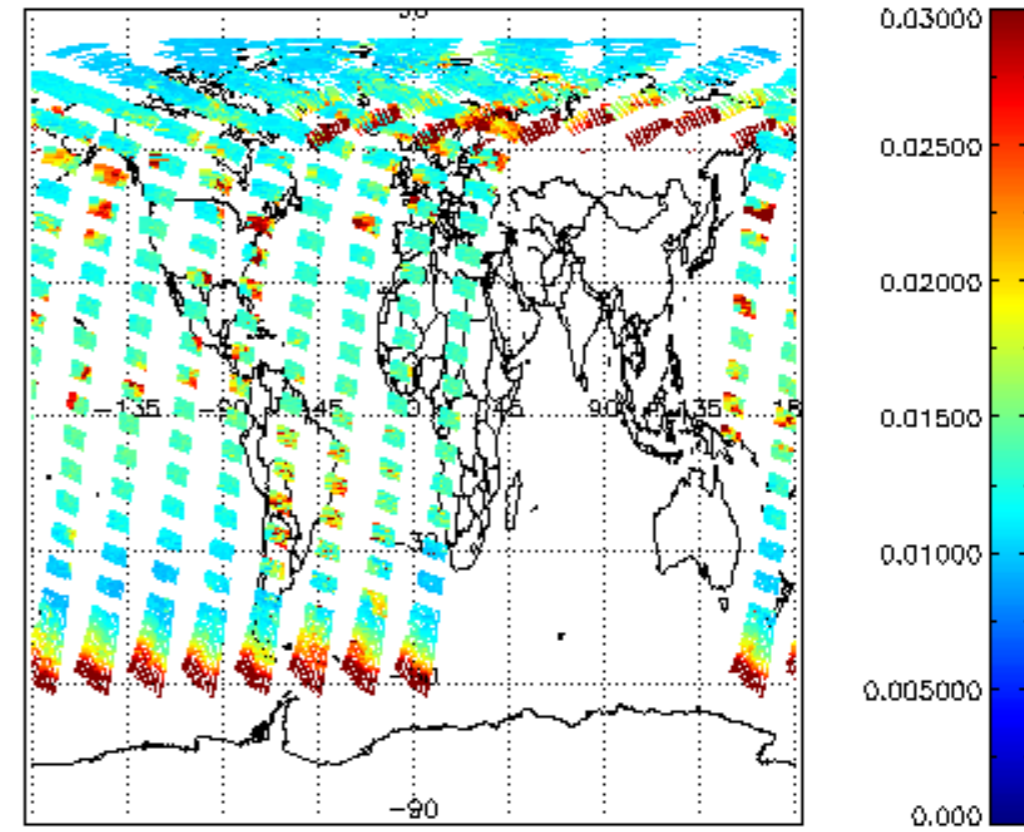




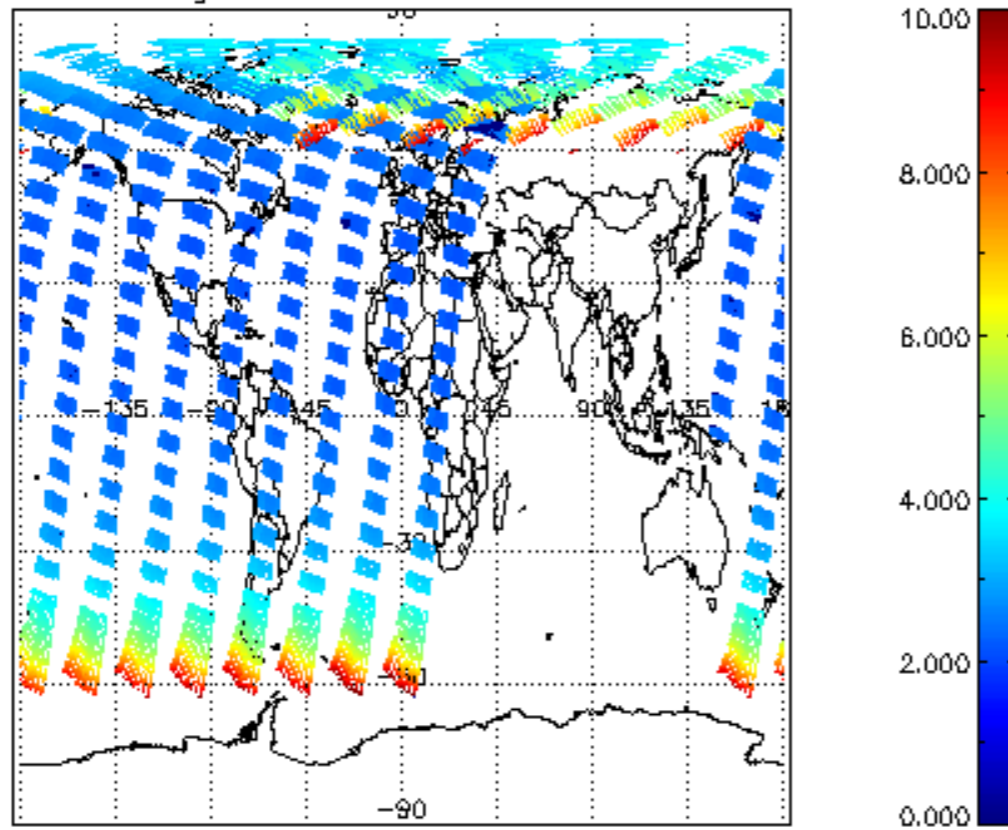
SCIOL2P\_NADUV003\_vcd for 21JUL2009 00:00:00 to 22JUL2009 00:00:00



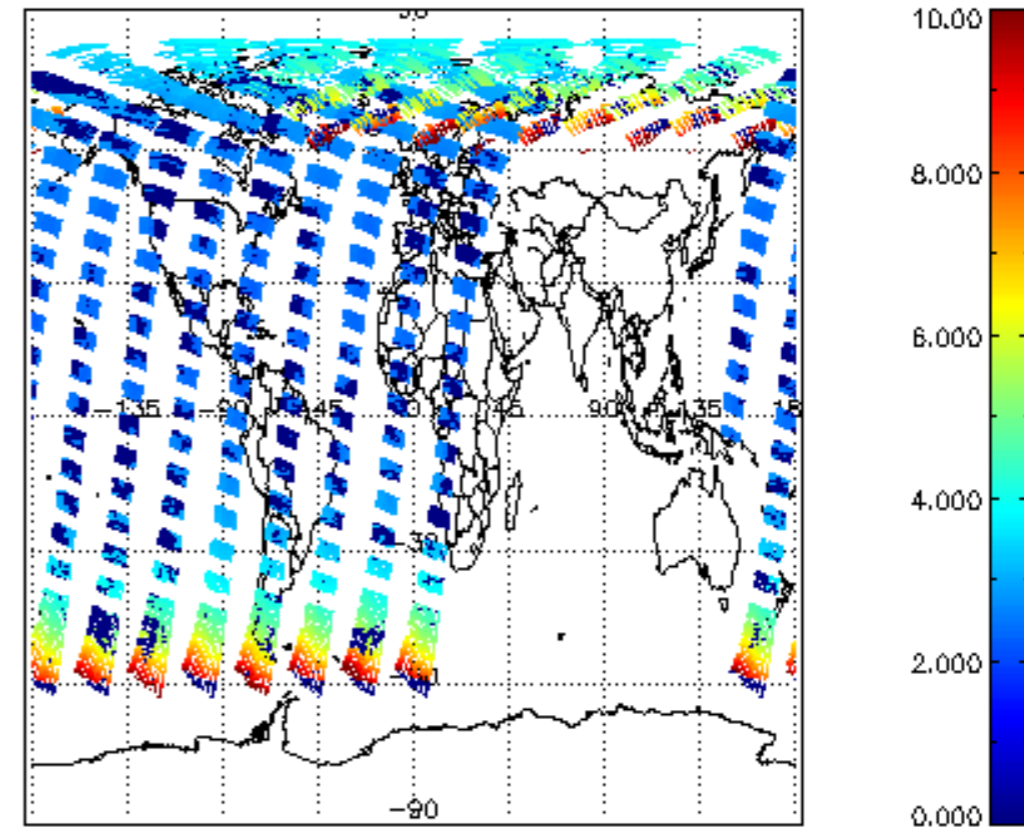
SCIOL2P\_NADUV003\_vcd\_err for 21JUL2009 00:00:00 to 22JUL2009 00:00:00

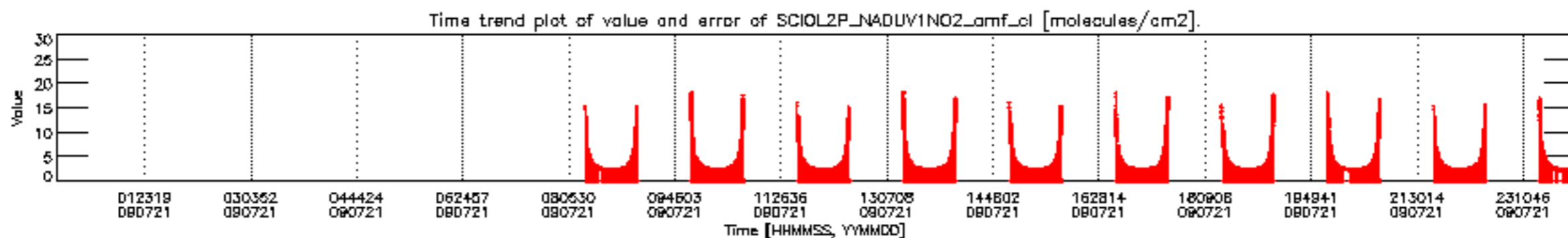
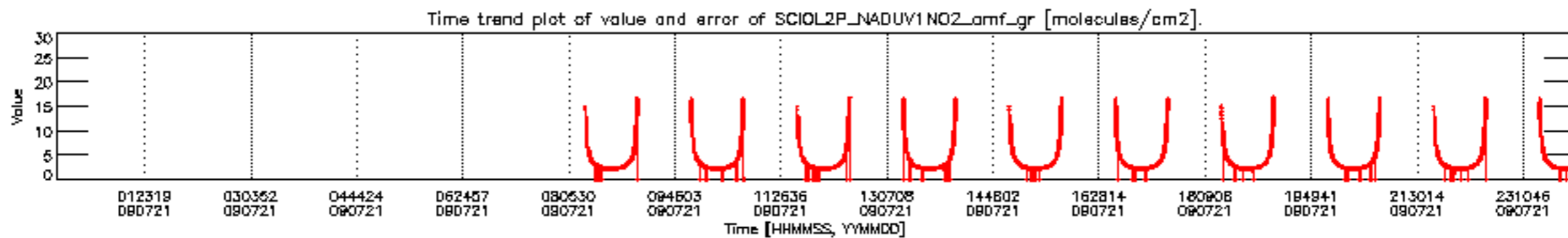
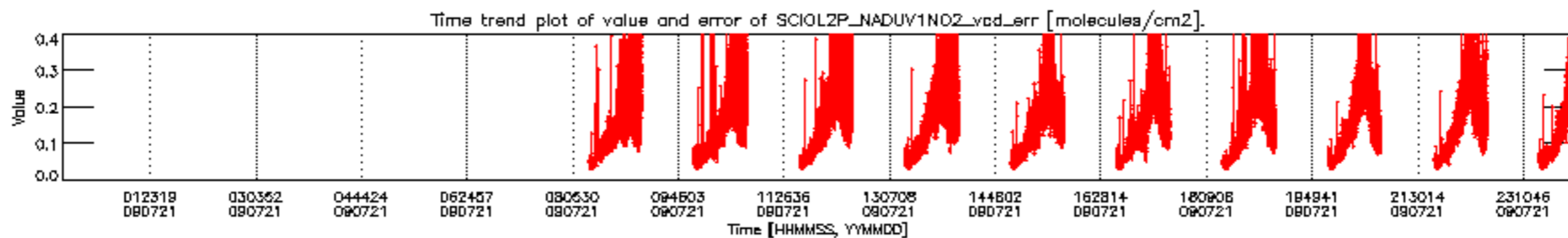
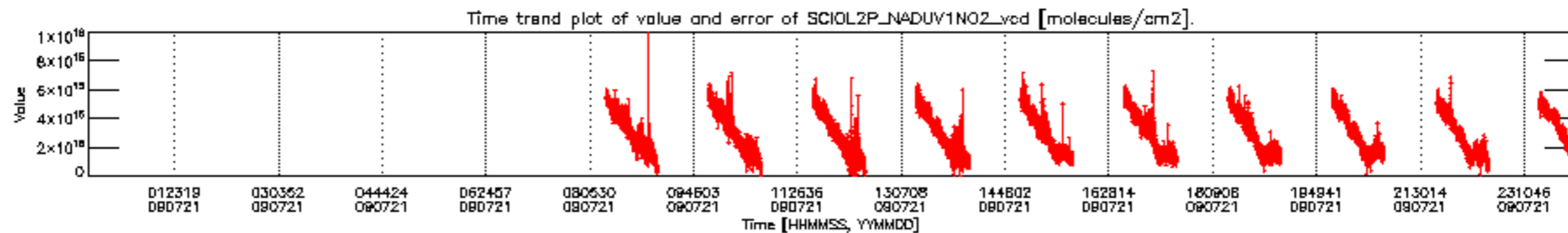


SCIOL2P\_NADUV003\_amf\_gr for 21JUL2009 00:00:00 to 22JUL2009 00:00:00



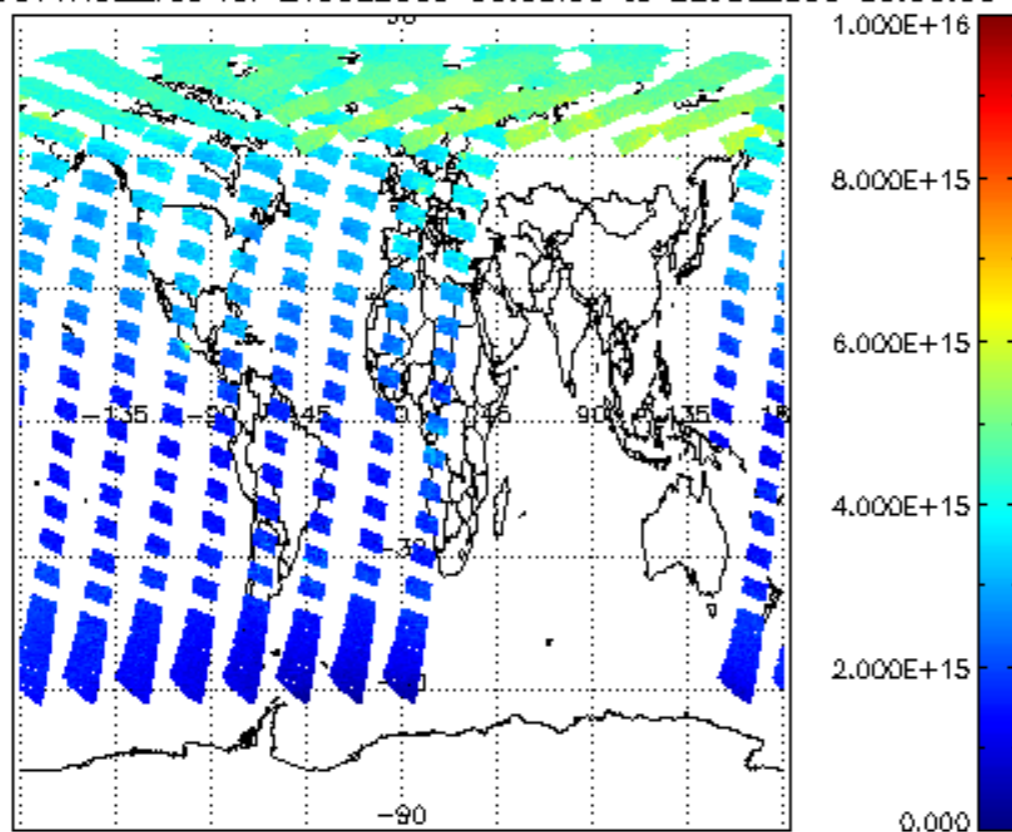
SCIOL2P\_NADUV003\_amf\_cl for 21JUL2009 00:00:00 to 22JUL2009 00:00:00



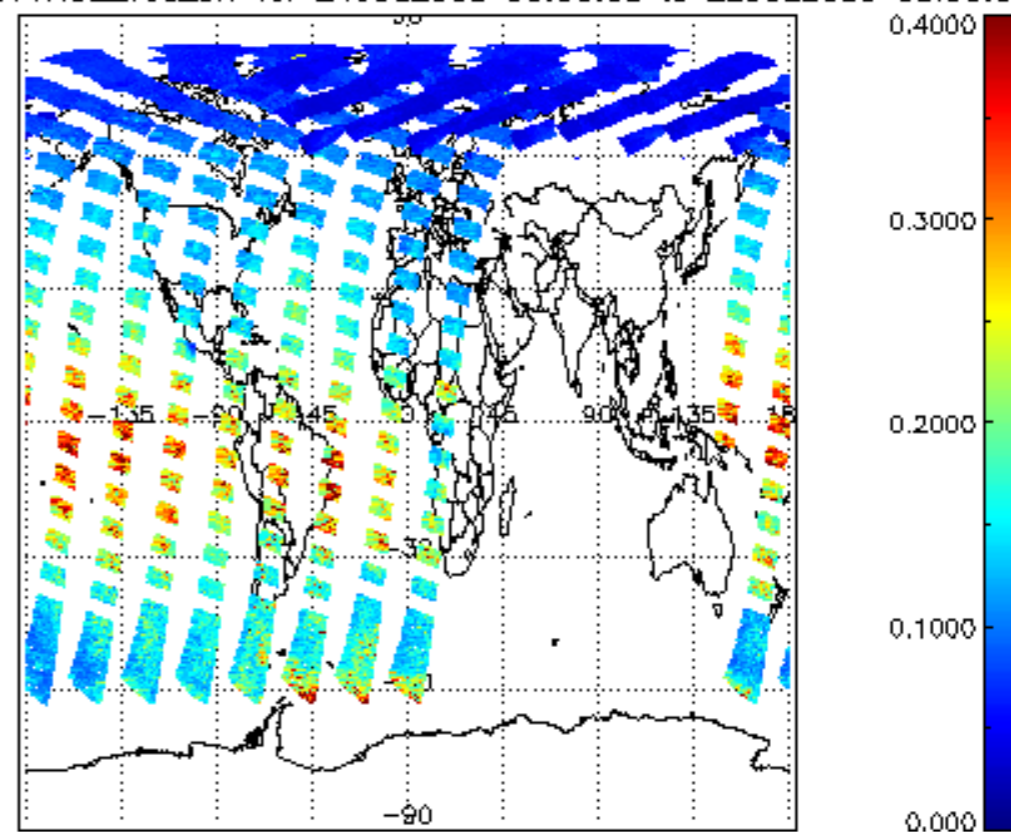




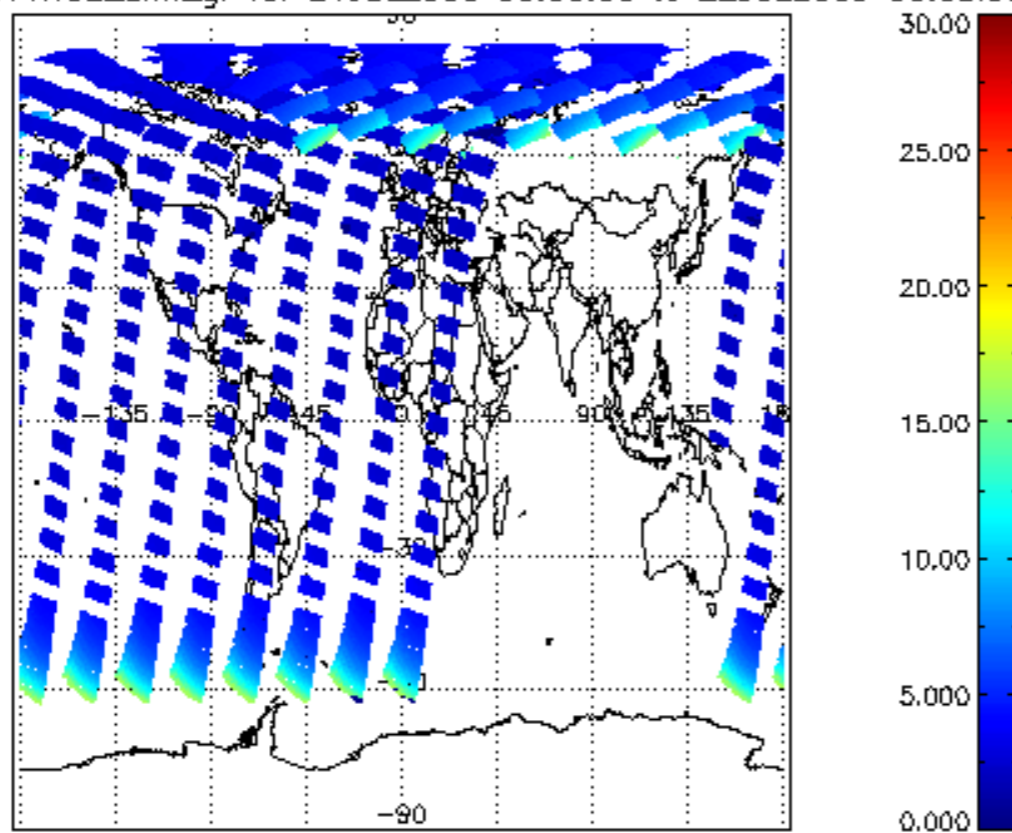
SCIOL2P\_NADUV1NO2\_vcd for 21JUL2009 00:00:00 to 22JUL2009 00:00:00



SCIOL2P\_NADUV1NO2\_vcd\_err for 21JUL2009 00:00:00 to 22JUL2009 00:00:00



SCIOL2P\_NADUV1NO2\_amf\_gr for 21JUL2009 00:00:00 to 22JUL2009 00:00:00



SCIOL2P\_NADUV1NO2\_amf\_cl for 21JUL2009 00:00:00 to 22JUL2009 00:00:00

