

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	27JUL2009 06:01:57
Data source version	SCIA-OL/3.01-R
Processing scope for products	09JUL2009 00:00:00 to 10JUL2009 00:00:00
Start time of first product within scope	08JUL2009 23:34:20
Stop time of last product within scope	09JUL2009 23:53:05
Total number of level 2 products	11
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	SCI_OL__2PRDPA20090708_233420_000030202080_00331_38461_3307.N1	08JUL2009 23:34:20	09JUL2009 00:24:41	0	GOOD
1	SCI_OL__2PRDPA20090709_011347_000030762080_00332_38462_3312.N1	09JUL2009 01:13:47	09JUL2009 02:05:04	0	GOOD
2	SCI_OL__2PRDPA20090709_025532_000030202080_00333_38463_3313.N1	09JUL2009 02:55:32	09JUL2009 03:45:52	0	GOOD
3	SCI_OL__2PRDPA20090709_043459_000030762080_00334_38464_3314.N1	09JUL2009 04:34:59	09JUL2009 05:26:16	0	GOOD
4	SCI_OL__2PRDPA20090709_125908_000030202080_00339_38469_3311.N1	09JUL2009 12:59:08	09JUL2009 13:49:29	0	GOOD
5	SCI_OL__2PRDPA20090709_143835_000030762080_00340_38470_3315.N1	09JUL2009 14:38:35	09JUL2009 15:29:52	0	GOOD
6	SCI_OL__2PRDPA20090709_162020_000030202080_00341_38471_3316.N1	09JUL2009 16:20:20	09JUL2009 17:10:41	0	GOOD
7	SCI_OL__2PRDPA20090709_180004_000030762080_00342_38472_3317.N1	09JUL2009 18:00:04	09JUL2009 18:51:20	0	GOOD
8	SCI_OL__2PRDPA20090709_194148_000030202080_00343_38473_3318.N1	09JUL2009 19:41:48	09JUL2009 20:32:09	0	GOOD
9	SCI_OL__2PRDPA20090709_212100_000030762080_00344_38474_3319.N1	09JUL2009 21:21:00	09JUL2009 22:12:16	0	GOOD
10	SCI_OL__2PRDPA20090709_230244_000030202080_00345_38475_3320.N1	09JUL2009 23:02:44	09JUL2009 23:53:05	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: 107974

Total number of cloud data DSRs with good quality flag (=0): 107974 (100.0 %)

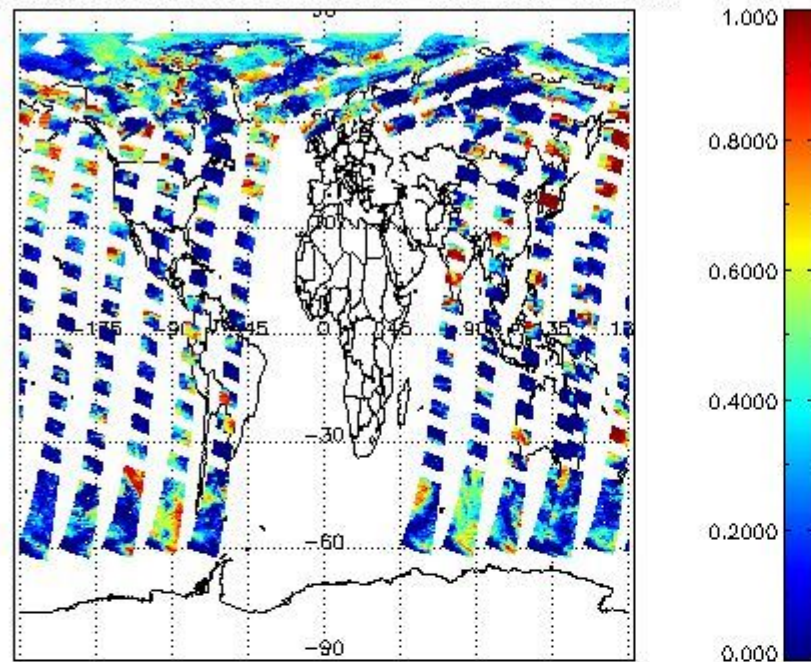
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	107974	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	107974	0.17054	0.12500	0.12500	0.25000	0.060154	s
CL_FRAC	107974	0.27696	0.20683	0.0000	1.0000	0.27621	-
CL_FRAC_ERR	107974	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	107974	5.4572	4.0000	4.0000	8.0000	1.9249	
PMD_READ_CL[0]	107974	0.18629	0.0000	0.0000	8.0000	1.0363	-
PMD_READ_CL[1]	107974	1.9117	0.0000	0.0000	8.0000	2.6712	-
CL_TOP_HEIGHT	95562	3.4099	1.1160	0.0000	17.000	4.0864	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	95562	55.820	61.354	0.0000	101.00	45.377	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	107974	11100000	11100000	11100000	11100000	0.0000	flags
CLOUD_FLAGS	107974	11001101	11000100	11000000	11100000	3621.8	flags
AERO_ABSO_IND	107974	4.1784	4.8600	-0.46417	15.060	2.7229	
AERO_IND_DIAG	107974	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	107974	01011000	00000000	00000000	11000000	24501.	flags

Time and geolocation plots:

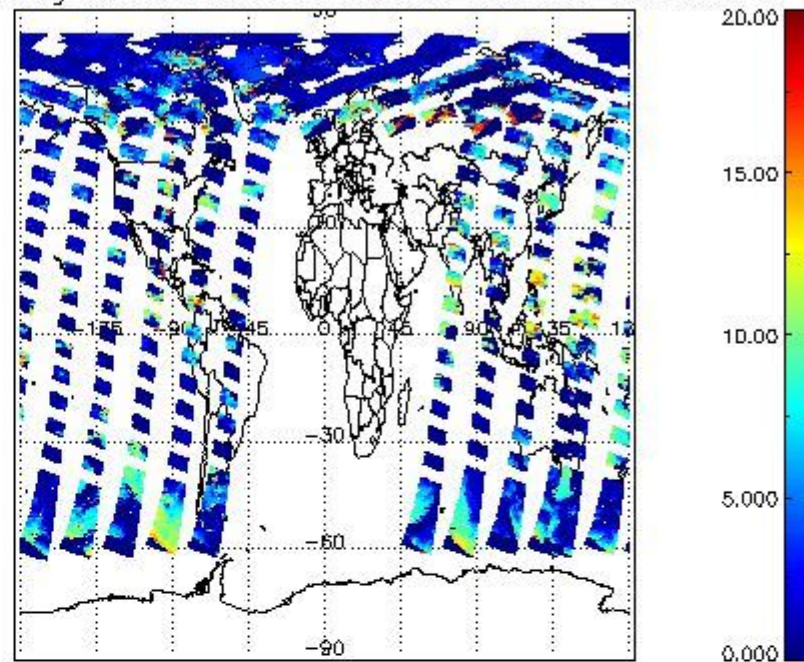
Plots are available for the following parameters:

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

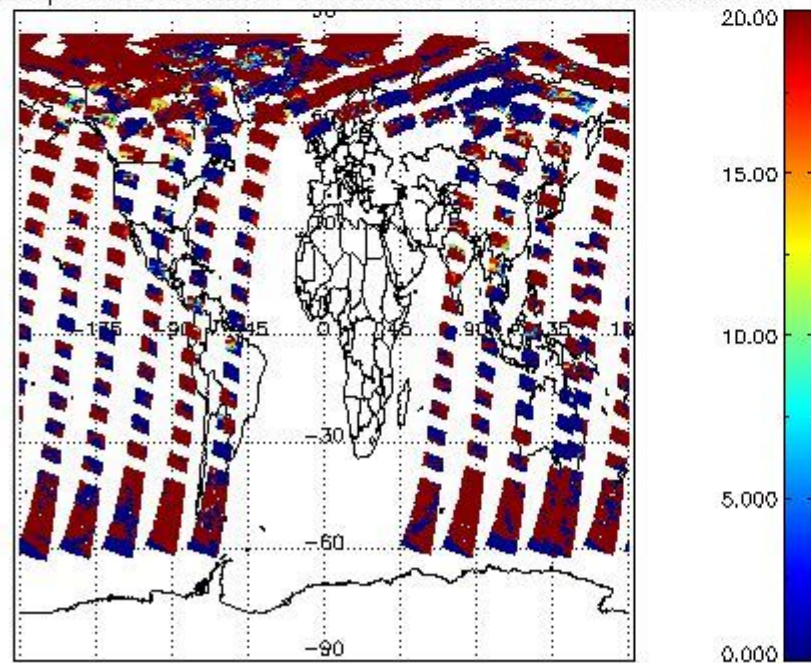
cL_frac for 09JUL2009 00:00:00 to 10JUL2009 00:00:00



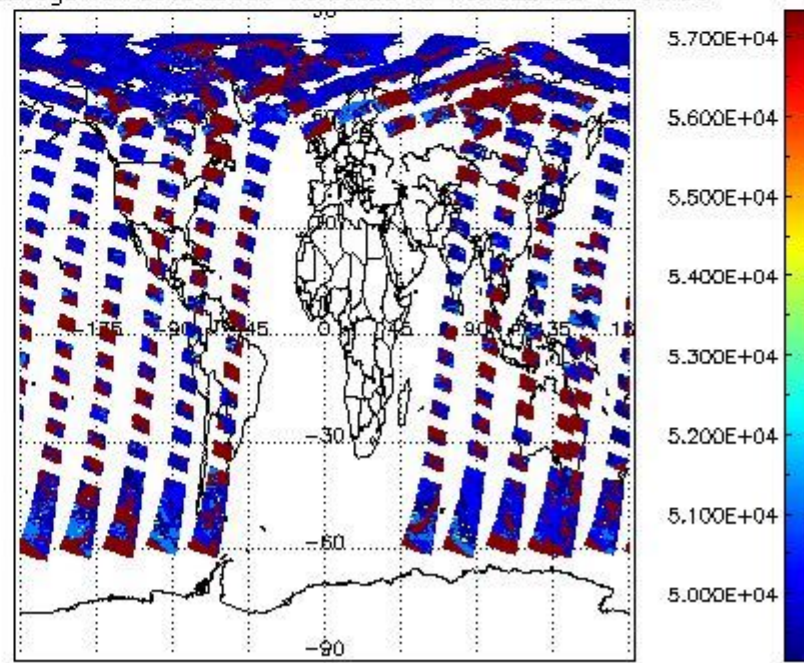
cL_top_height for 09JUL2009 00:00:00 to 10JUL2009 00:00:00



cL_opt_depth for 09JUL2009 00:00:00 to 10JUL2009 00:00:00



cloud_flags for 09JUL2009 00:00:00 to 10JUL2009 00:00:00



2.2.2 Nadir

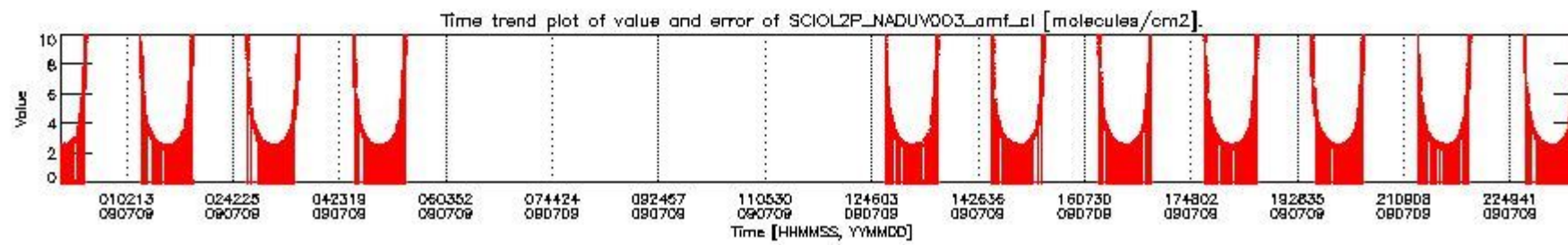
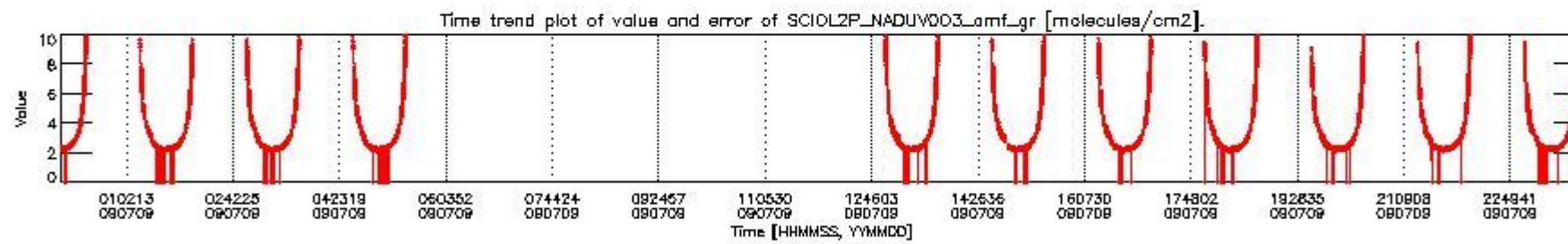
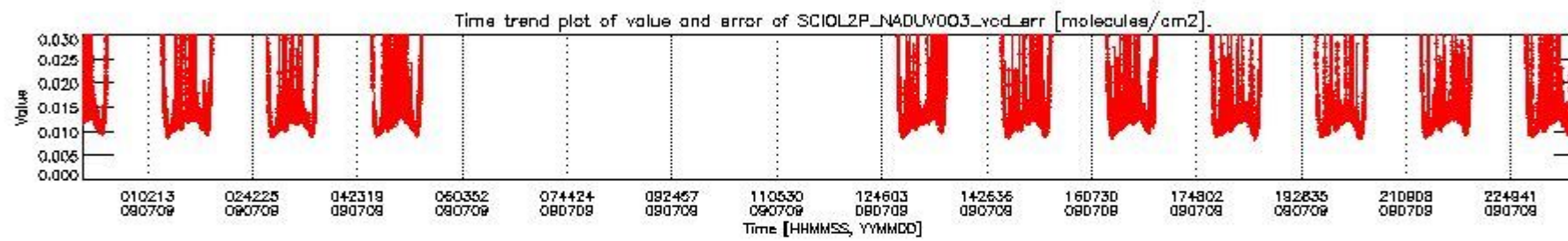
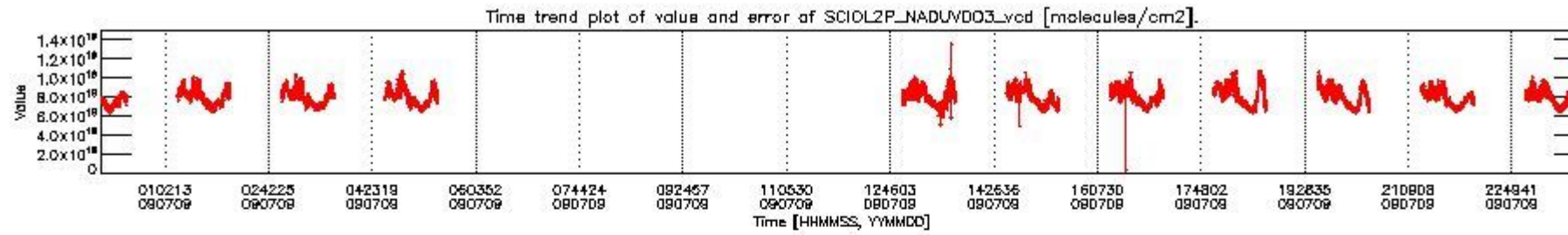
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

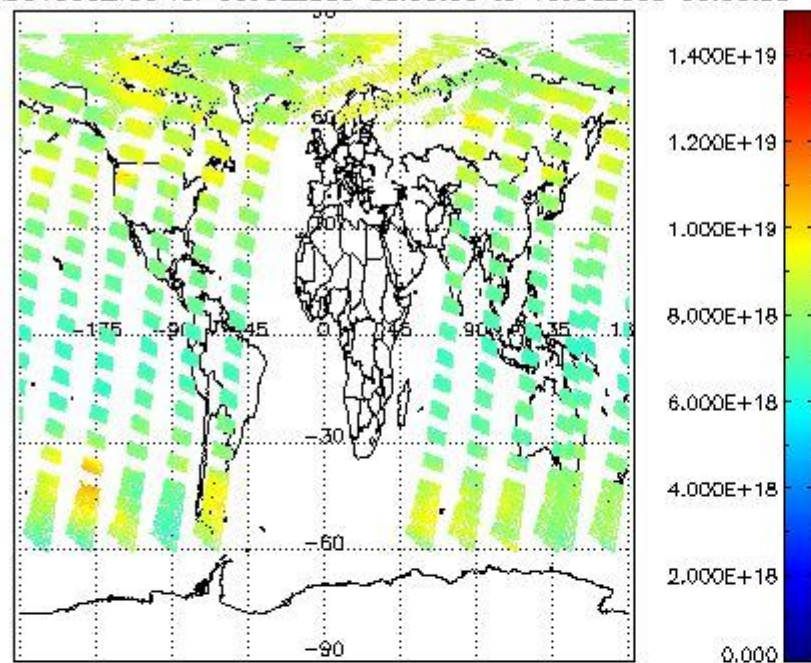
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

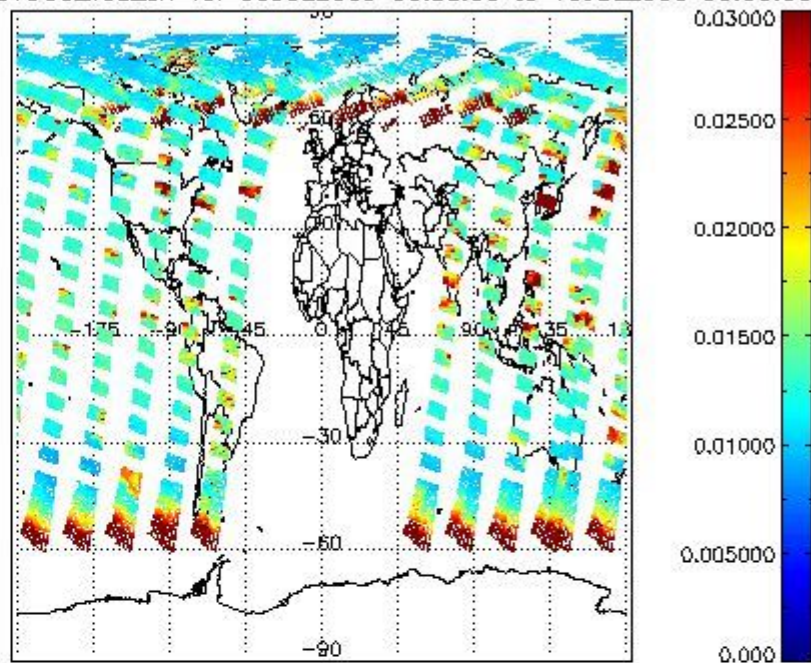
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



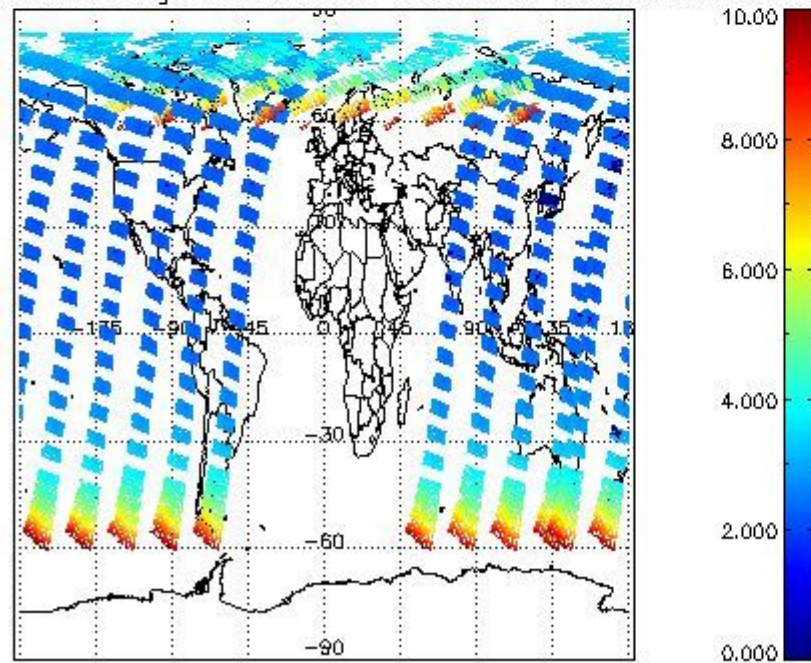
SCIOL2P_NADUV003_vcd for 09JUL2009 00:00:00 to 10JUL2009 00:00:00



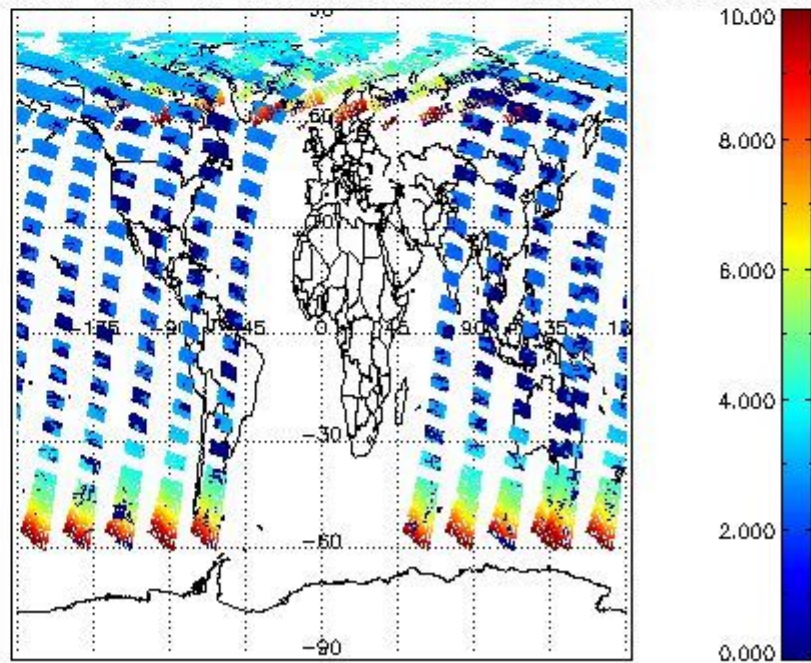
SCIOL2P_NADUV003_vcd_err for 09JUL2009 00:00:00 to 10JUL2009 00:00:00

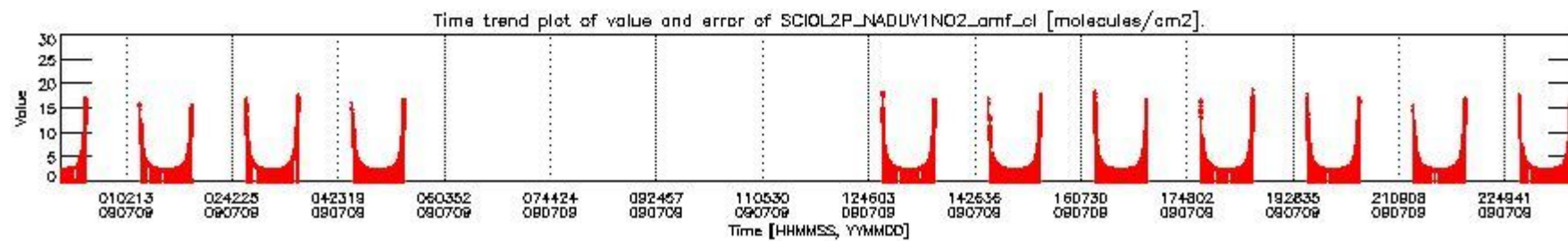
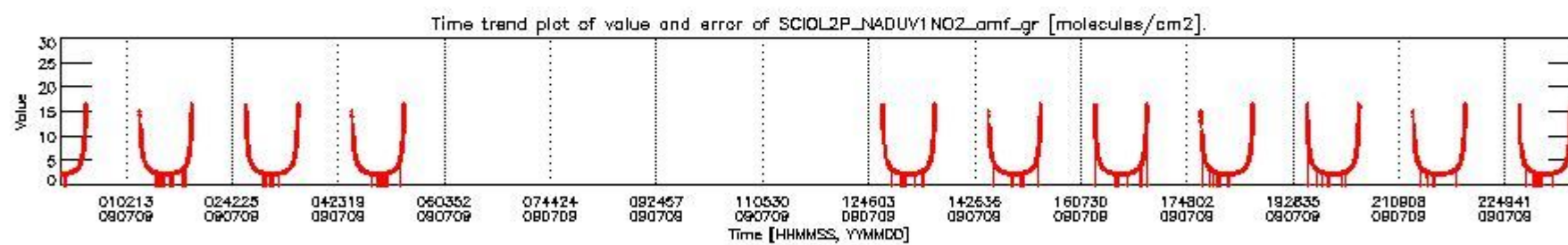
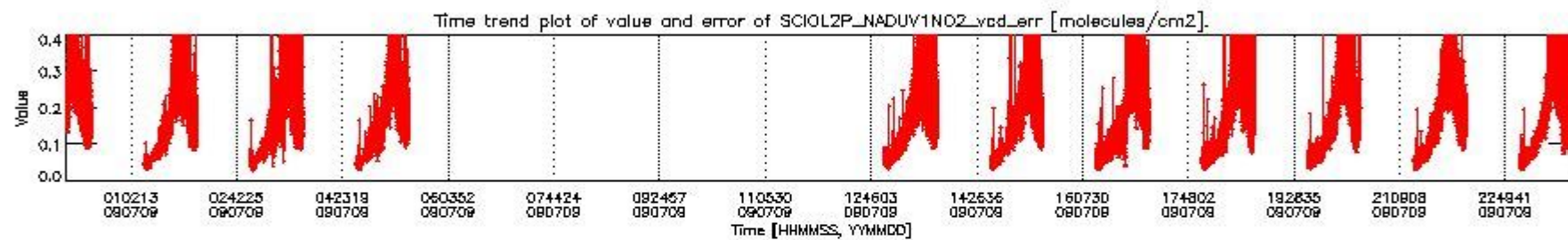
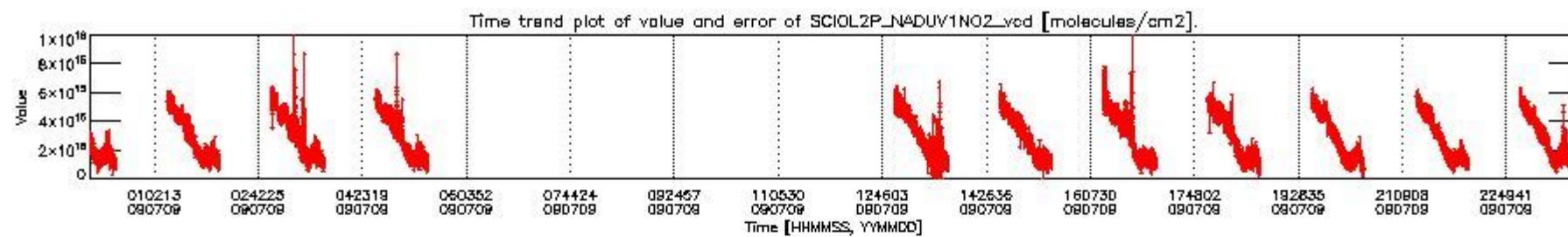


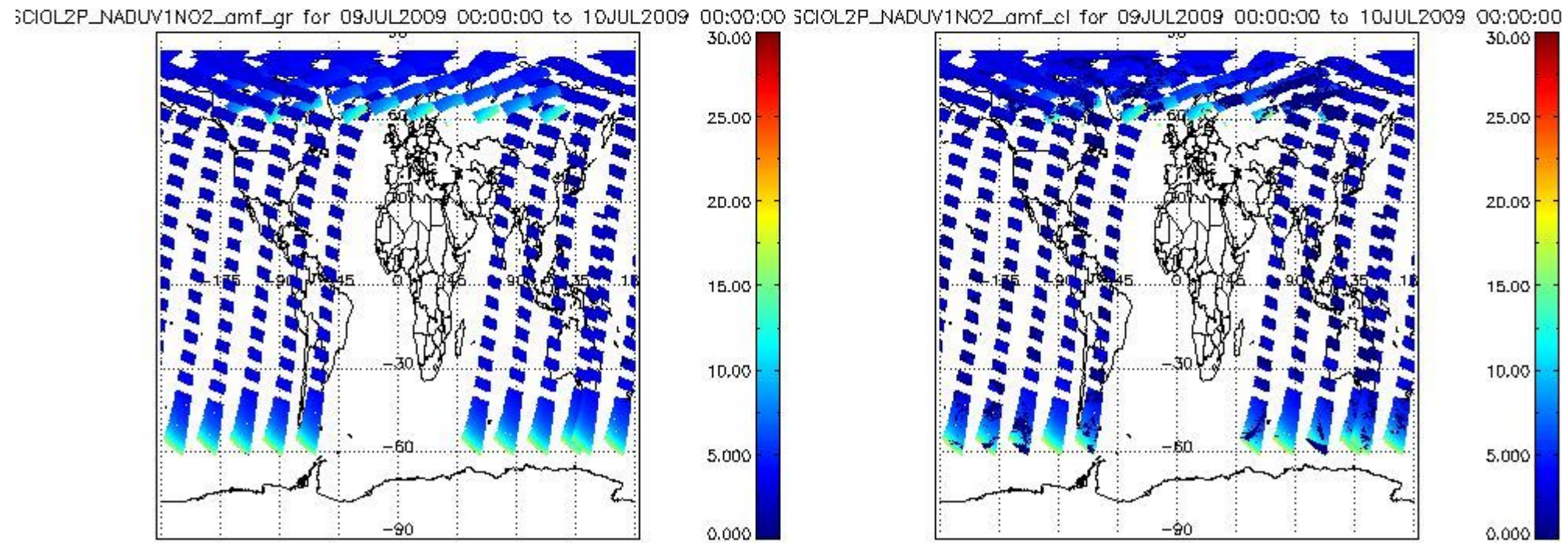
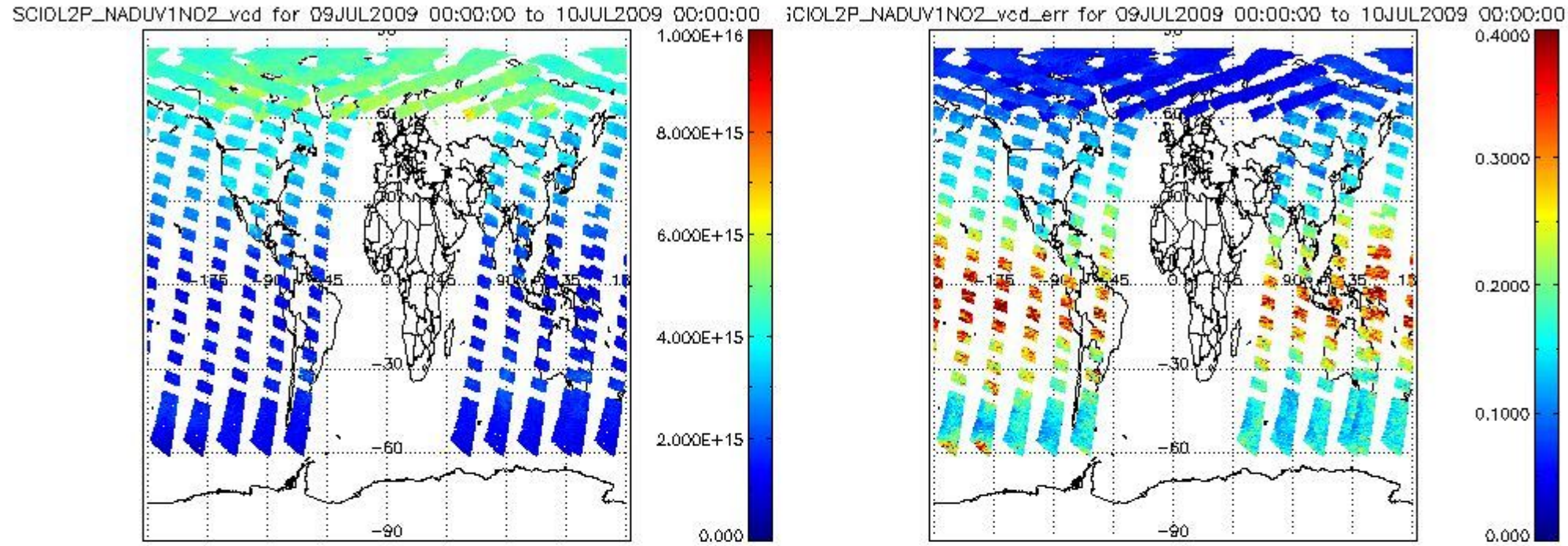
SCIOL2P_NADUV003_amf_gr for 09JUL2009 00:00:00 to 10JUL2009 00:00:00



SCIOL2P_NADUV003_amf_cl for 09JUL2009 00:00:00 to 10JUL2009 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:

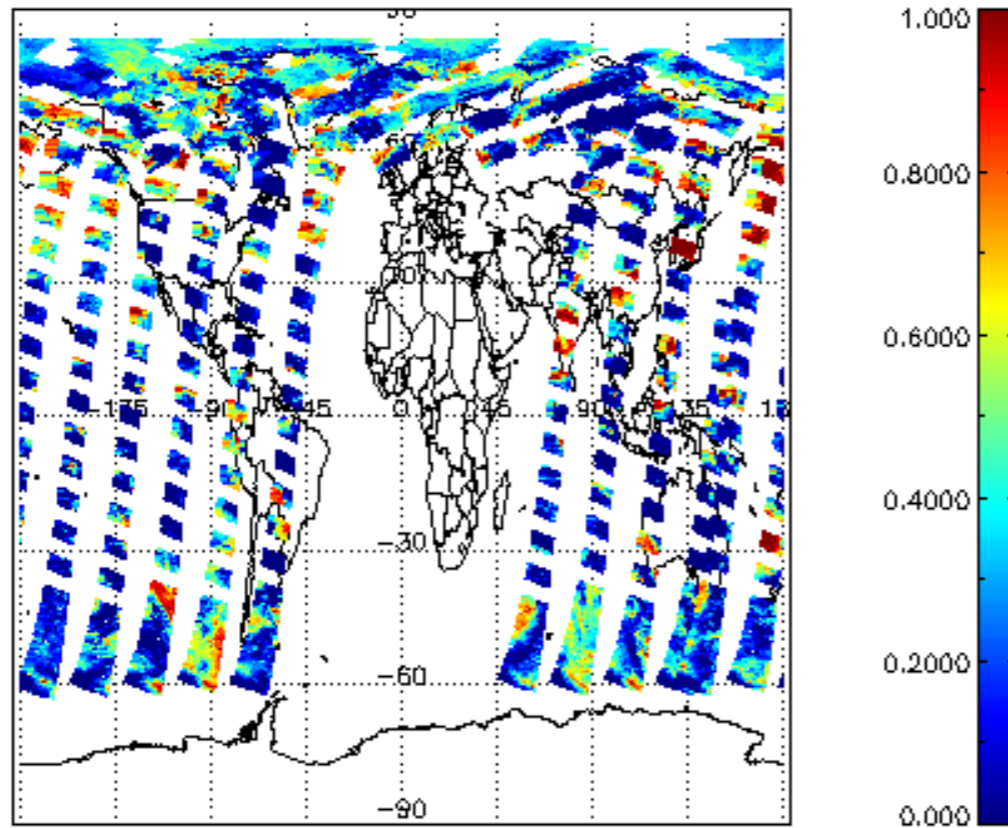
Number	Data item ID
0	SCIOL2PLIMUV003_main_species
1	SCIOL2PLIMUV1NO2_main_species

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

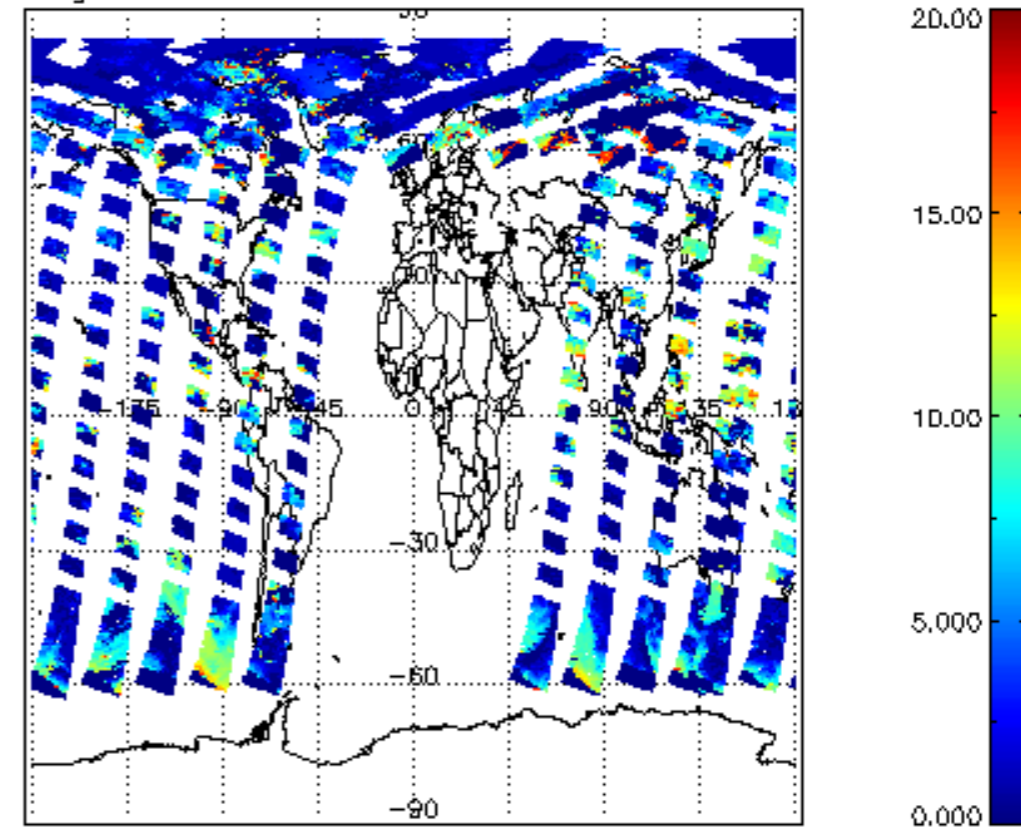
2.3 ADF monitoring

Number	ADF
	IN_ (INITIALISATION_FILE)
0	SCI_IN_AXNPDE20070629_092400_20070720_000000_20991231_235959
	ECF (ECMWF_FILE)
1	NOT USED

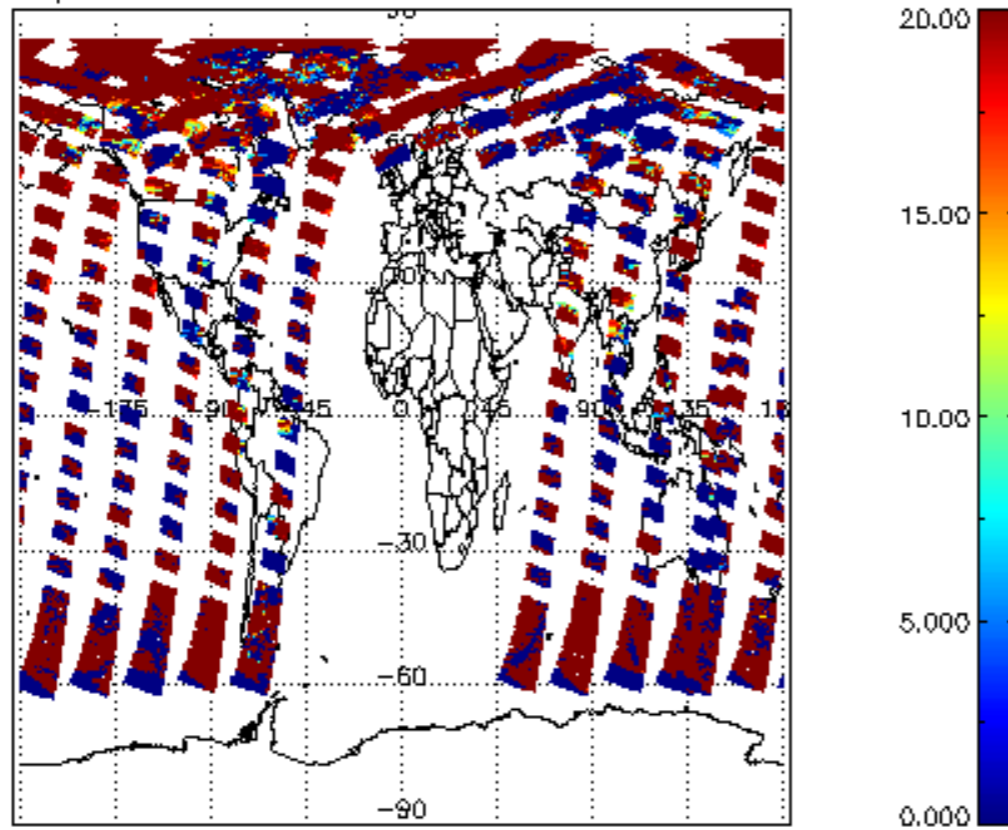
cl_frac for 09JUL2009 00:00:00 to 10JUL2009 00:00:00



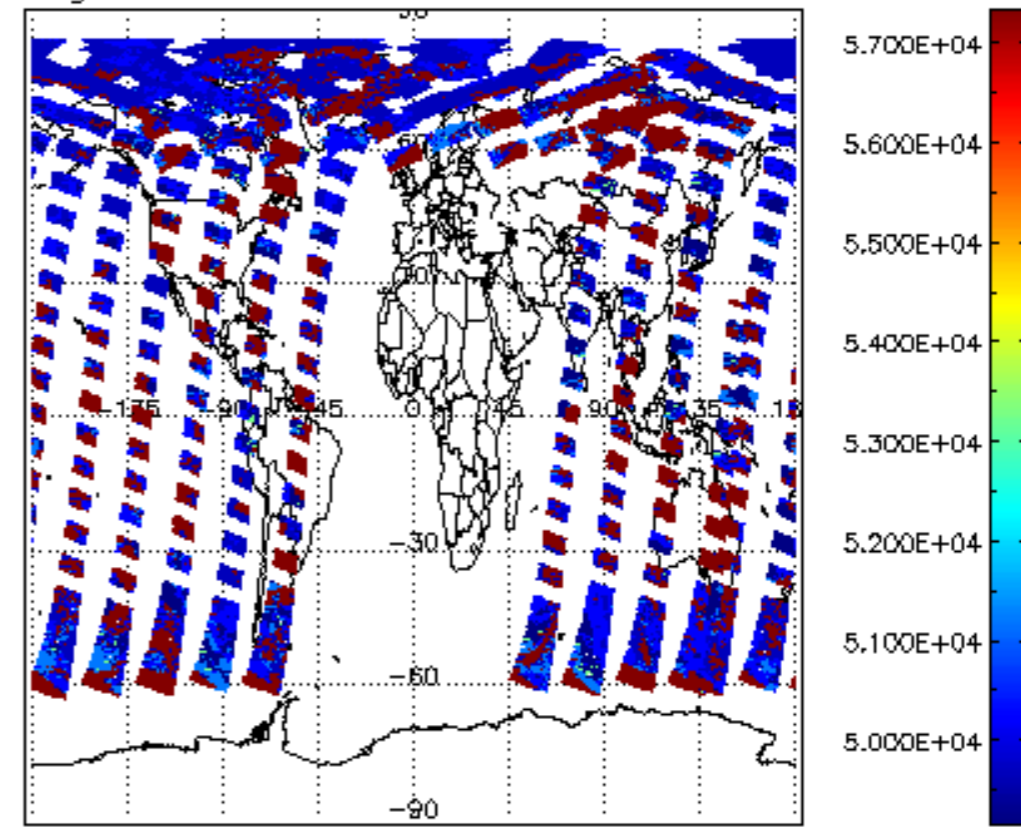
cl_top_height for 09JUL2009 00:00:00 to 10JUL2009 00:00:00

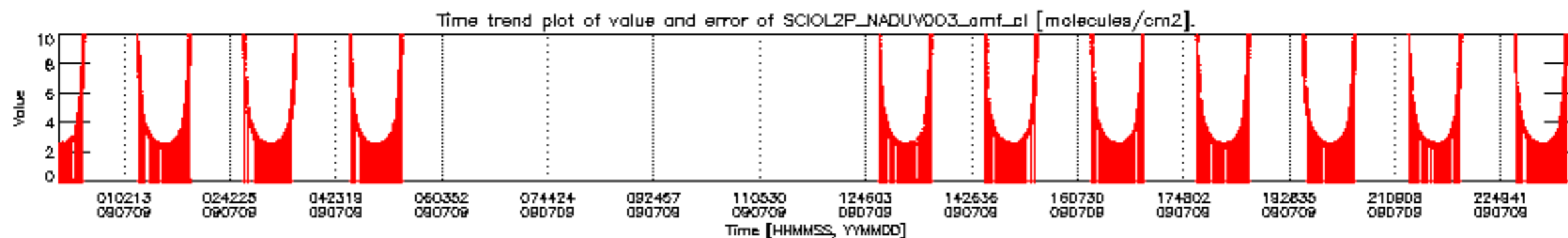
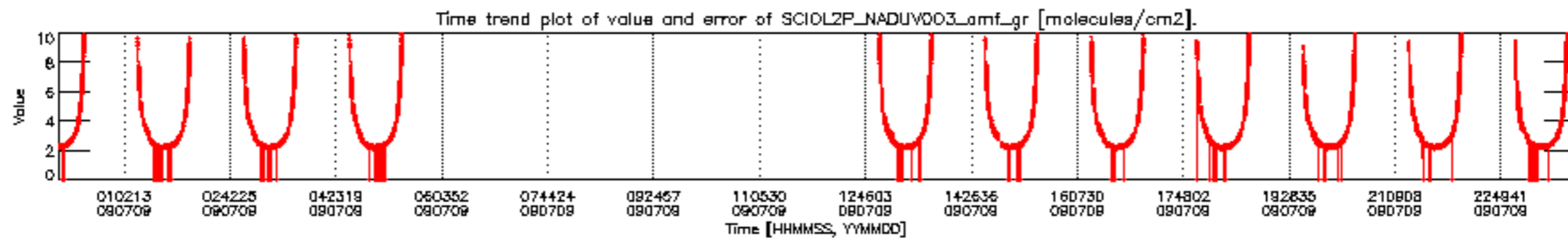
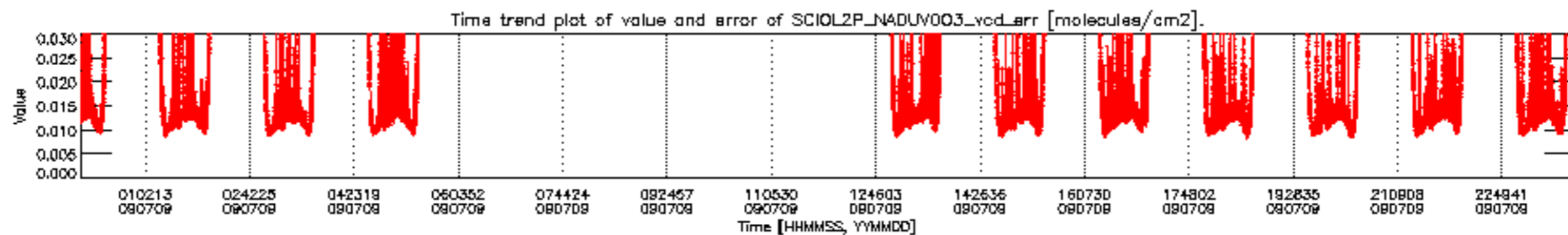
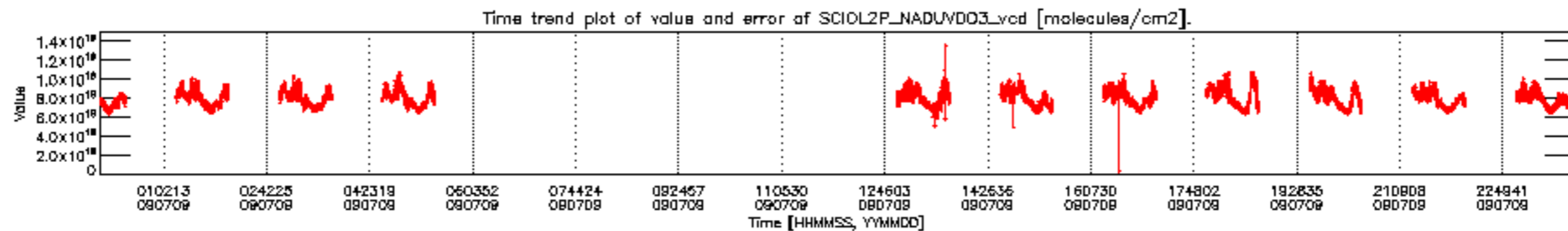


cl_lopt_depth for 09JUL2009 00:00:00 to 10JUL2009 00:00:00

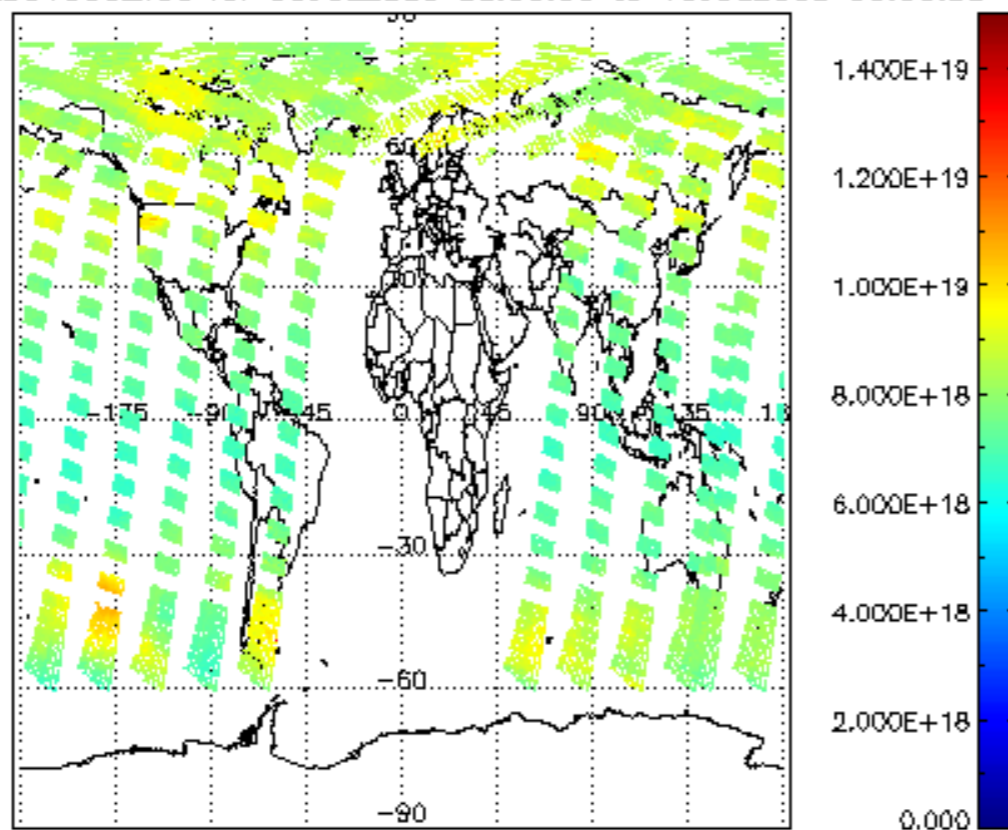


cloud_flags for 09JUL2009 00:00:00 to 10JUL2009 00:00:00

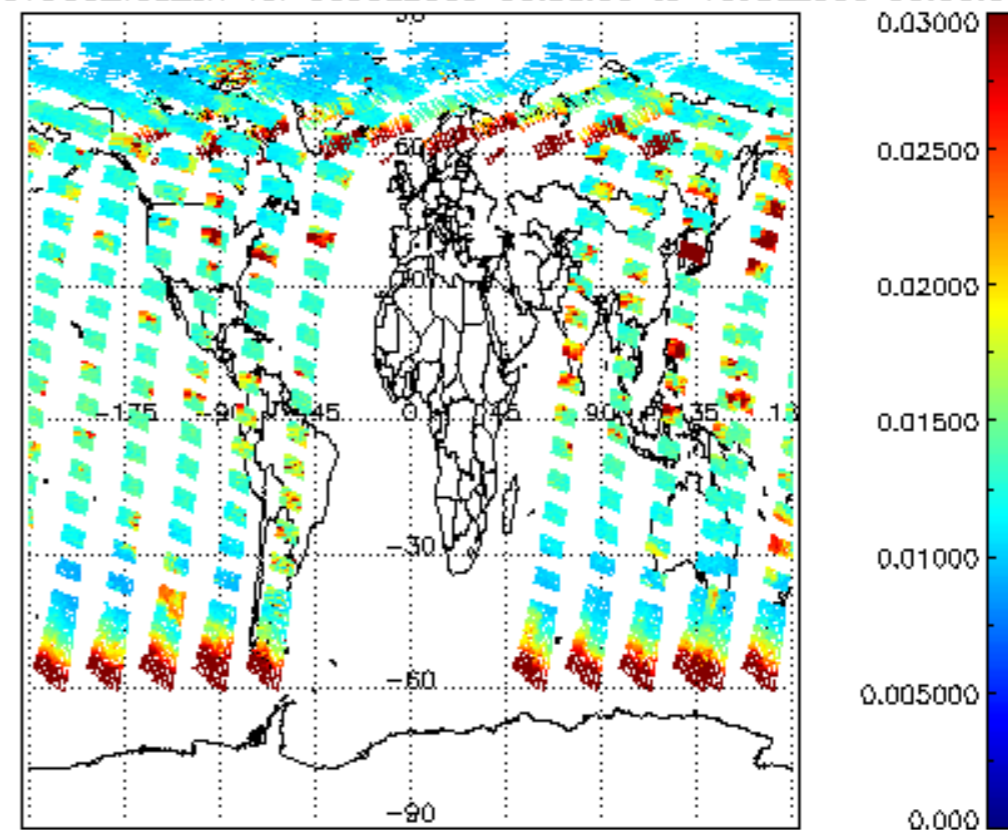




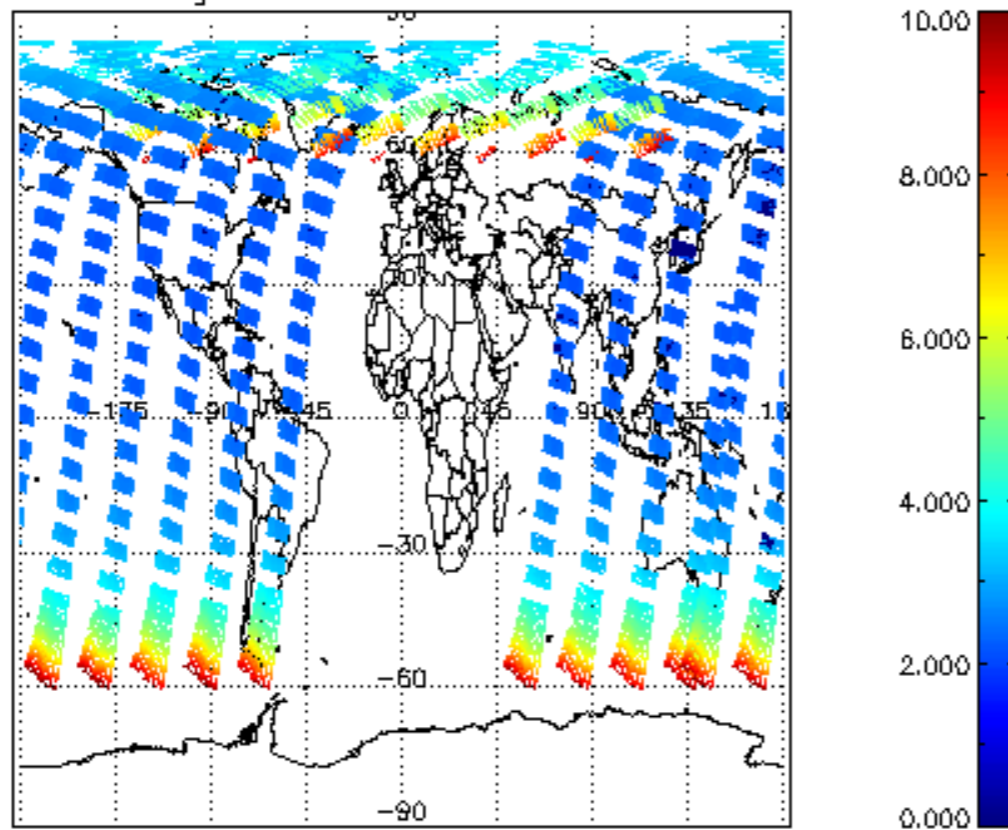
SCIOL2P_NADUV003_vcd for 09JUL2009 00:00:00 to 10JUL2009 00:00:00



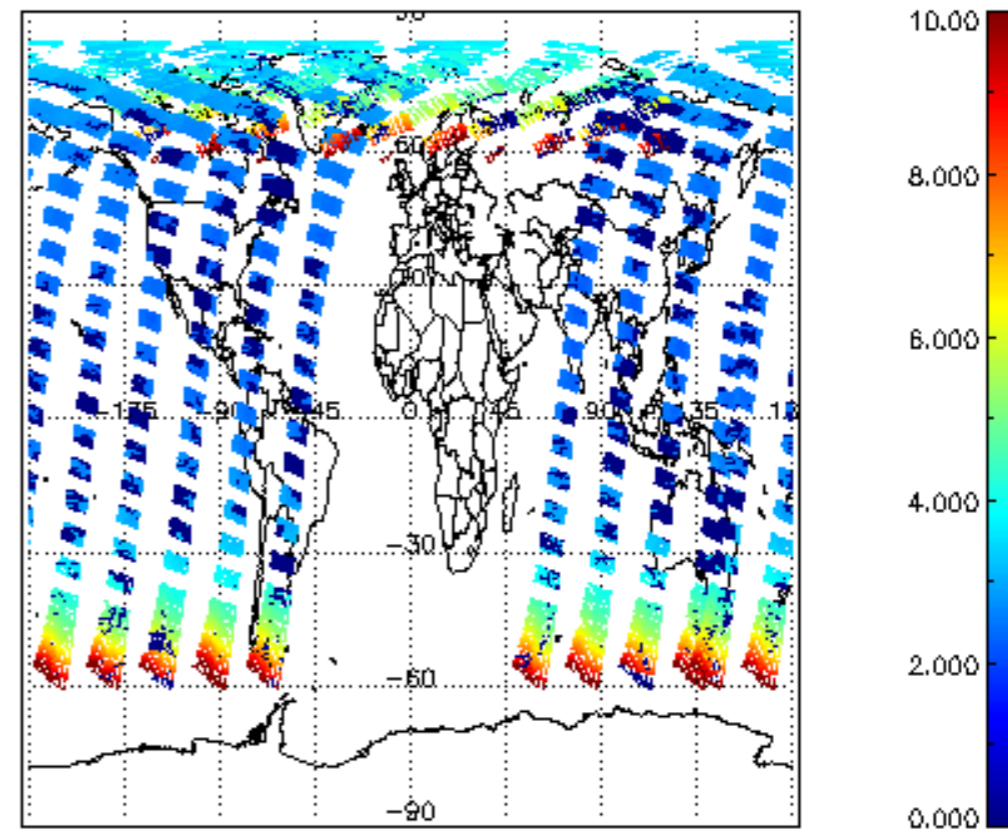
SCIOL2P_NADUV003_vcd_err for 09JUL2009 00:00:00 to 10JUL2009 00:00:00

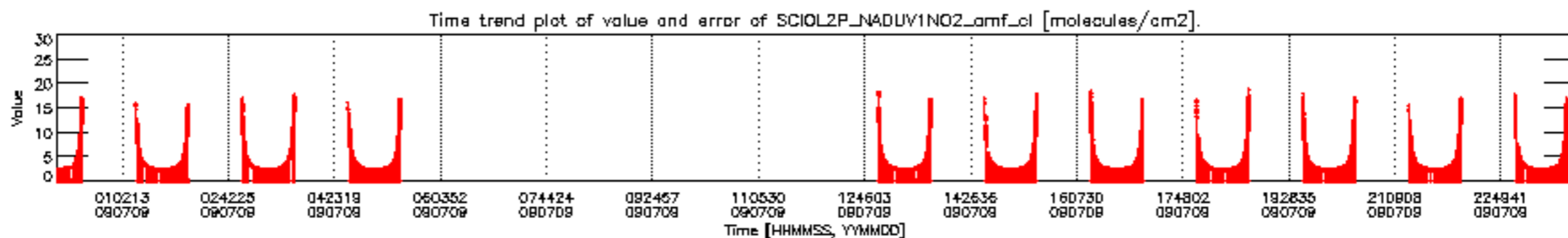
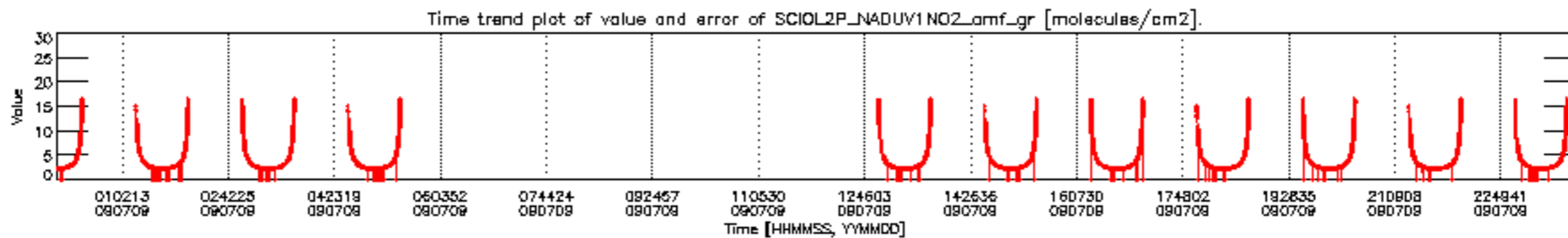
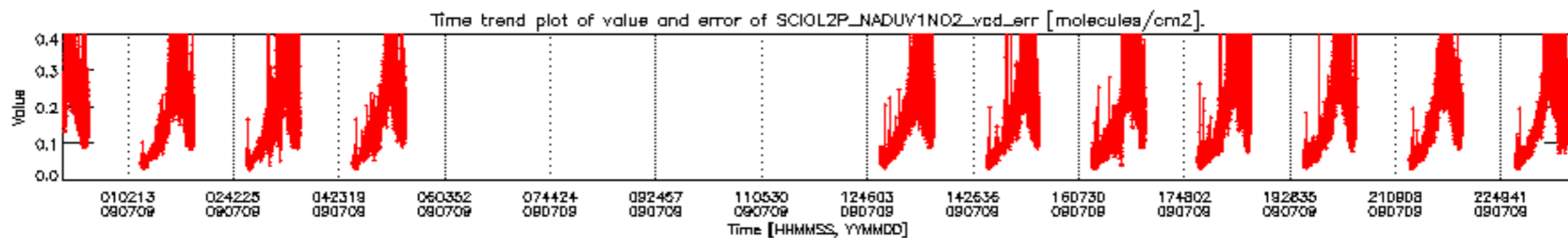
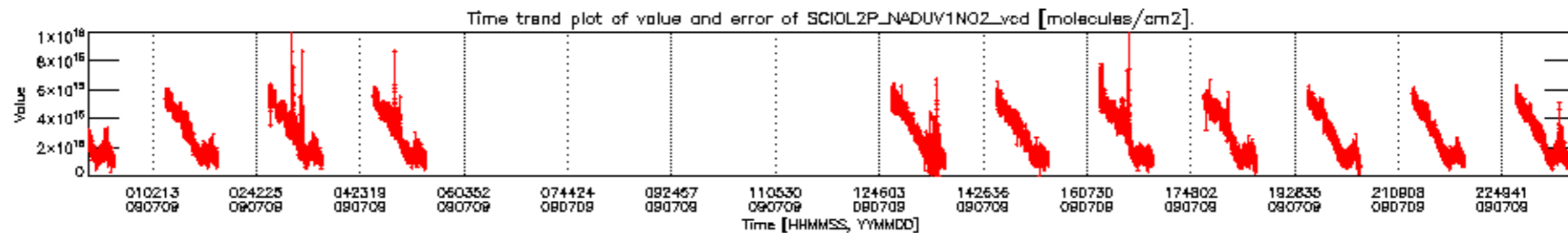


SCIOL2P_NADUV003_amf_gr for 09JUL2009 00:00:00 to 10JUL2009 00:00:00

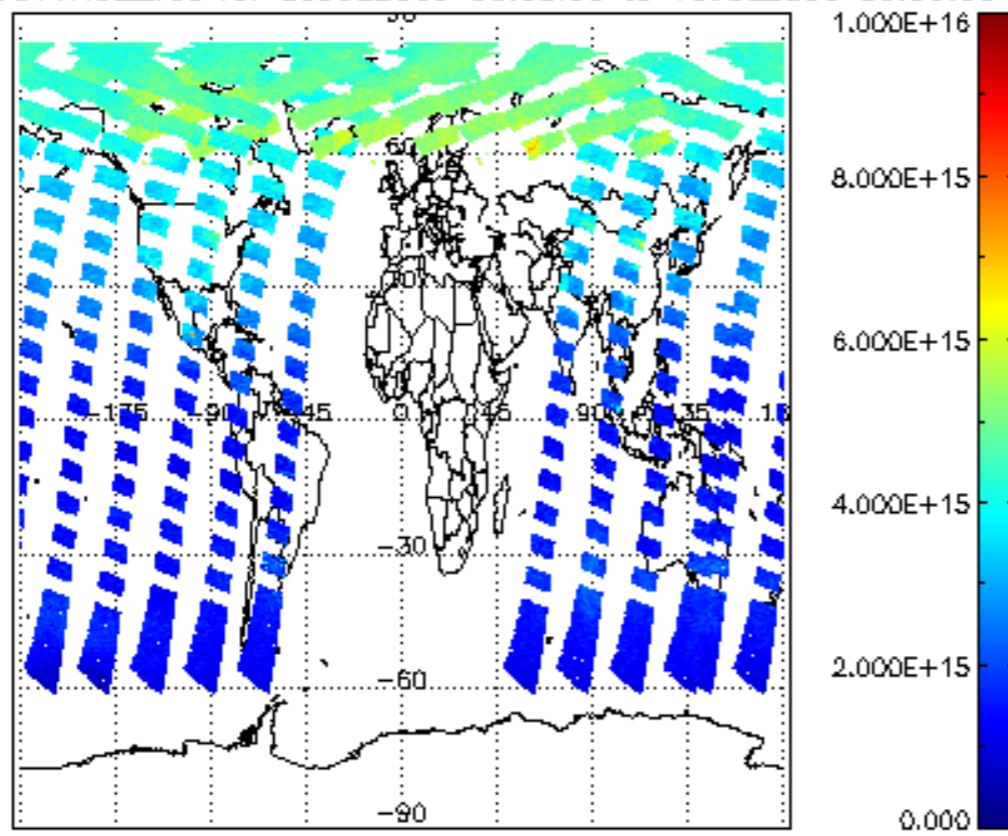


SCIOL2P_NADUV003_amf_cl for 09JUL2009 00:00:00 to 10JUL2009 00:00:00

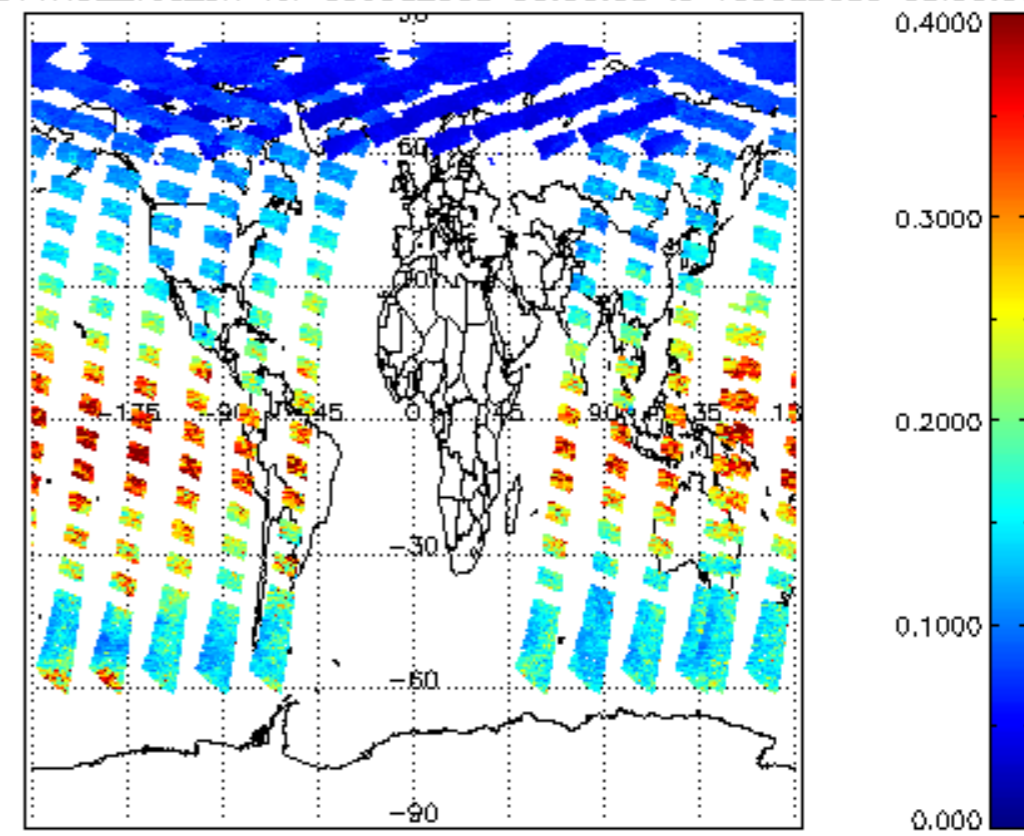




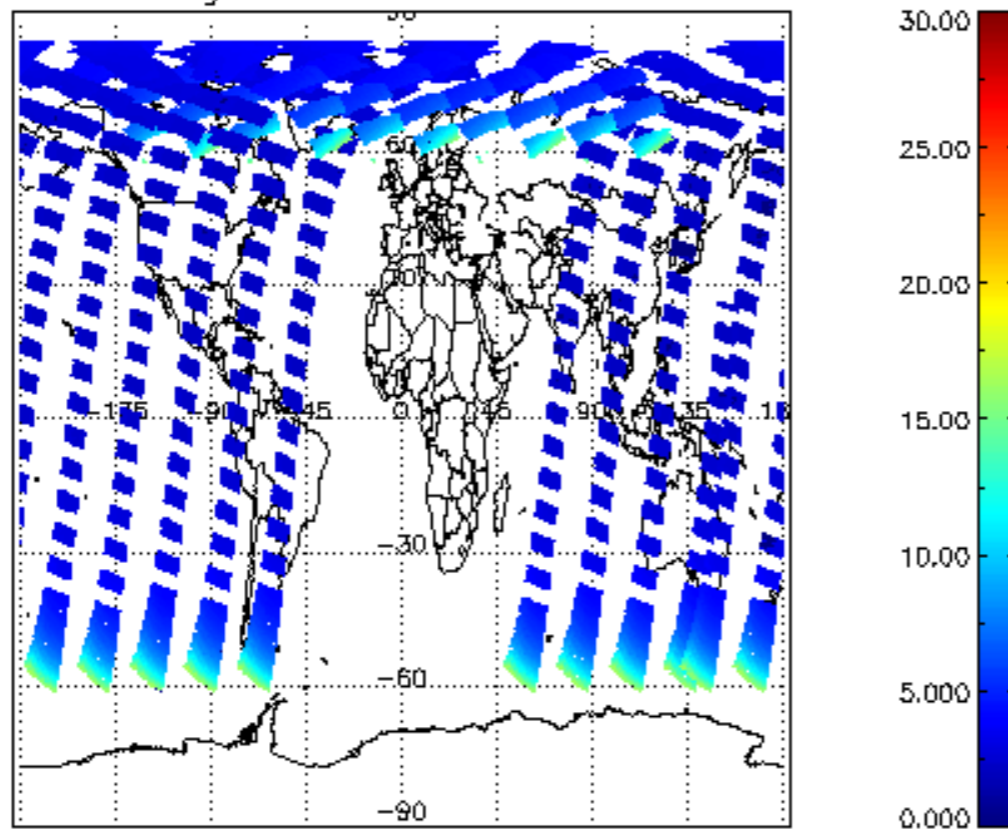
SCIOL2P_NADUV1NO2_vcd for 09JUL2009 00:00:00 to 10JUL2009 00:00:00



SCIOL2P_NADUV1NO2_vcd_err for 09JUL2009 00:00:00 to 10JUL2009 00:00:00



SCIOL2P_NADUV1NO2_amf_gr for 09JUL2009 00:00:00 to 10JUL2009 00:00:00



SCIOL2P_NADUV1NO2_amf_cl for 09JUL2009 00:00:00 to 10JUL2009 00:00:00

