

2. SCIAMACHY Daily Report for level 2 products

[2.1. General Info](#)

[2.2 Product Quality Indicators](#)

[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	1.6 (28-07-2008)
Time of report generation	05JUN2009 16:17:06
Data source version	SCIA-OL/3.01-R
Processing scope for products	22APR2009 00:00:00 to 23APR2009 00:00:00
Start time of first product within scope	21APR2009 22:43:21
Stop time of last product within scope	23APR2009 00:47:40
Total number of level 2 products	14
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__2PRDPA20090421_224321_000033122078_00216_37344_2157.N1	21APR2009 22:43:21	21APR2009 23:38:34	0	GOOD
1	SCI_OL__2PRDPA20090422_002901_000030202078_00217_37345_2158.N1	22APR2009 00:29:01	22APR2009 01:19:22	0	GOOD
2	SCI_OL__2PRDPA20090422_020828_000030762078_00218_37346_2159.N1	22APR2009 02:08:28	22APR2009 02:59:45	0	GOOD
3	SCI_OL__2PRDPA20090422_035012_000030202078_00219_37347_2160.N1	22APR2009 03:50:12	22APR2009 04:40:33	0	GOOD
4	SCI_OL__2PRDPA20090422_052939_000030762078_00220_37348_2161.N1	22APR2009 05:29:39	22APR2009 06:20:56	0	GOOD
5	SCI_OL__2PRDPA20090422_103235_000030202078_00222_37350_2163.N1	22APR2009 10:32:35	22APR2009 11:22:56	0	GOOD
6	SCI_OL__2PRDPA20090422_121202_000030762078_00224_37352_2164.N1	22APR2009 12:12:02	22APR2009 13:03:18	0	GOOD
7	SCI_OL__2PRDPA20090422_135346_000030202078_00225_37353_2165.N1	22APR2009 13:53:46	22APR2009 14:44:07	0	GOOD
8	SCI_OL__2PRDPA20090422_153313_000030762078_00226_37354_2166.N1	22APR2009 15:33:13	22APR2009 16:24:30	0	GOOD
9	SCI_OL__2PRDPA20090422_171515_000030202078_00227_37355_2168.N1	22APR2009 17:15:15	22APR2009 18:05:36	0	GOOD
10	SCI_OL__2PRDPA20090422_185442_000030762078_00228_37356_2169.N1	22APR2009 18:54:42	22APR2009 19:45:59	0	GOOD
11	SCI_OL__2PRDPA20090422_203608_000030202078_00229_37357_2170.N1	22APR2009 20:36:08	22APR2009 21:26:29	0	GOOD
12	SCI_OL__2PRDPA20090422_221535_000030762078_00230_37358_2171.N1	22APR2009 22:15:35	22APR2009 23:06:52	0	GOOD
13	SCI_OL__2PRDPA20090422_235719_000030202078_00231_37359_2172.N1	22APR2009 23:57:19	23APR2009 00:47:40	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: 123526

Total number of cloud data DSRs with good quality flag (=0): 123526 (100.0 %)

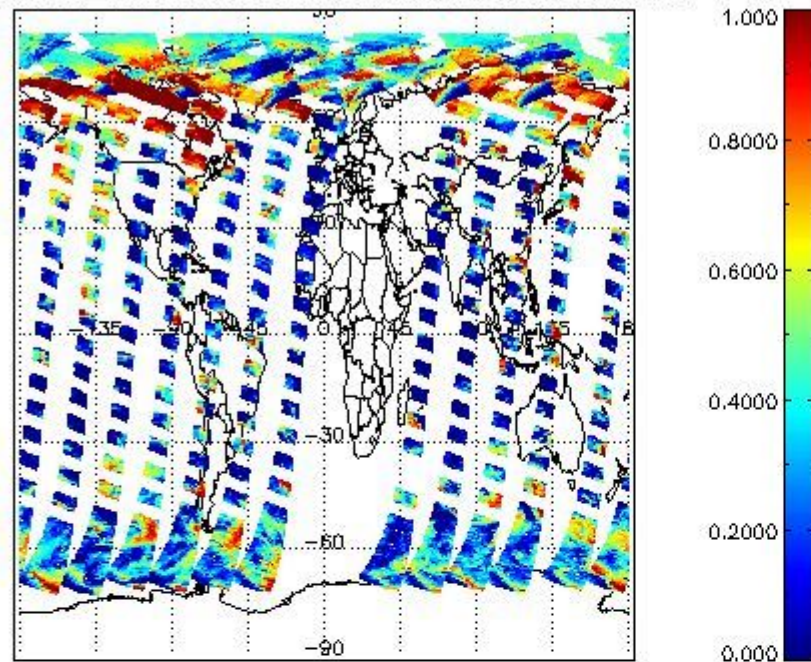
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	123526	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	123526	0.17078	0.12500	0.12500	0.25000	0.060222	s
CL_FRAC	123526	0.37509	0.34767	0.0000	1.0000	0.30816	-
CL_FRAC_ERR	123526	0.0000	0.0000	0.0000	0.0000	0.0000	rel. fraction
PMD_READ	123526	5.4650	4.0000	4.0000	8.0000	1.9271	
PMD_READ_CL[0]	123526	0.31593	0.0000	0.0000	8.0000	1.2481	-
PMD_READ_CL[1]	123526	1.4834	0.0000	0.0000	8.0000	2.6360	-
CL_TOP_HEIGHT	110279	2.8735	1.2660	0.0000	17.000	3.3232	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	110279	65.507	100.00	0.0000	101.00	42.540	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	123526	11100000	11100000	11100000	11100000	0.0000	flags. Bit definition = 0: low or high cloud; 1: ice or water cloud; 2: thick or thin cloud; 3-15: not used
CLOUD_FLAGS	123526	11001010	11000100	11000000	11100000	3354.3	flags
AERO_ABSO_IND	123526	3.7419	4.4733	-1.1525	15.764	2.4330	
AERO_IND_DIAG	123526	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	123526	01011000	00000000	00000000	11000000	24504.	flags

Time and geolocation plots:

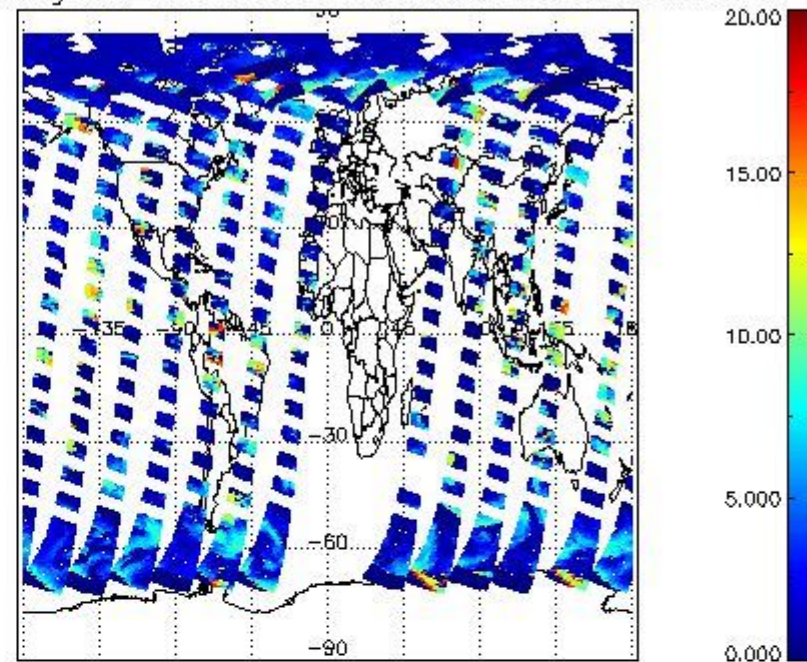
Plots are available for the following parameters:

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

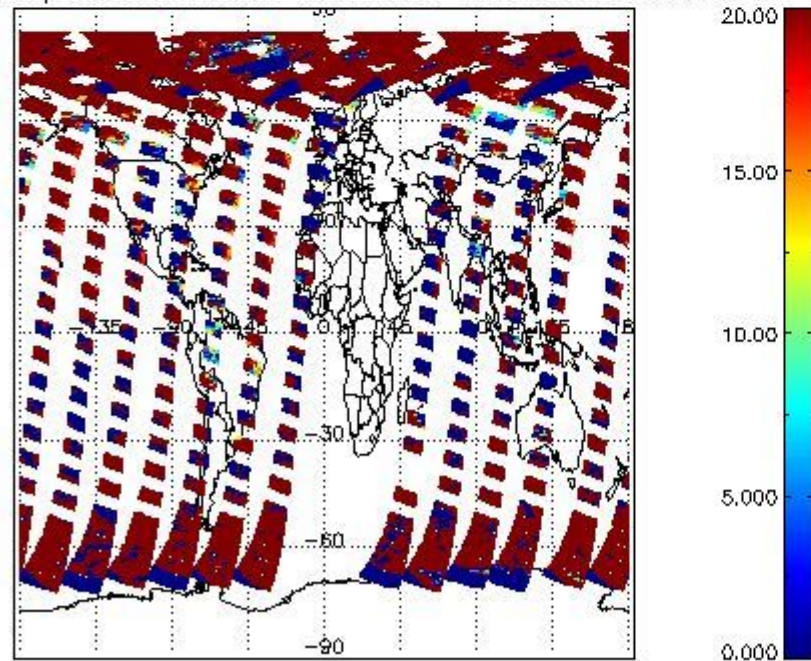
cL_frac for 22APR2009 00:00:00 to 23APR2009 00:00:00



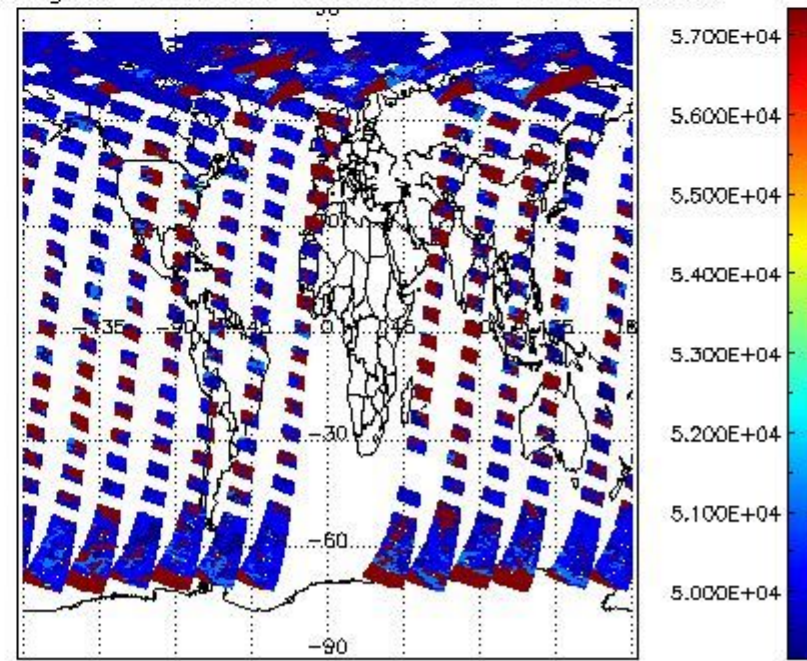
cL_top_height for 22APR2009 00:00:00 to 23APR2009 00:00:00



cL_opt_depth for 22APR2009 00:00:00 to 23APR2009 00:00:00



cloud_flags for 22APR2009 00:00:00 to 23APR2009 00:00:00



2.2.2 Nadir

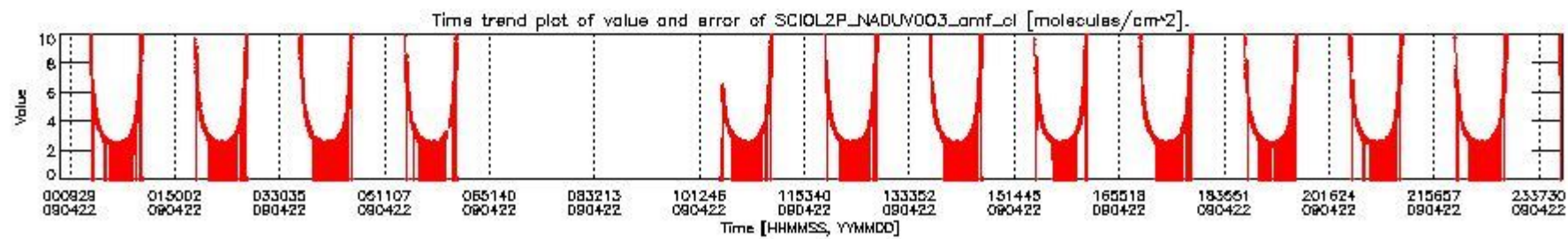
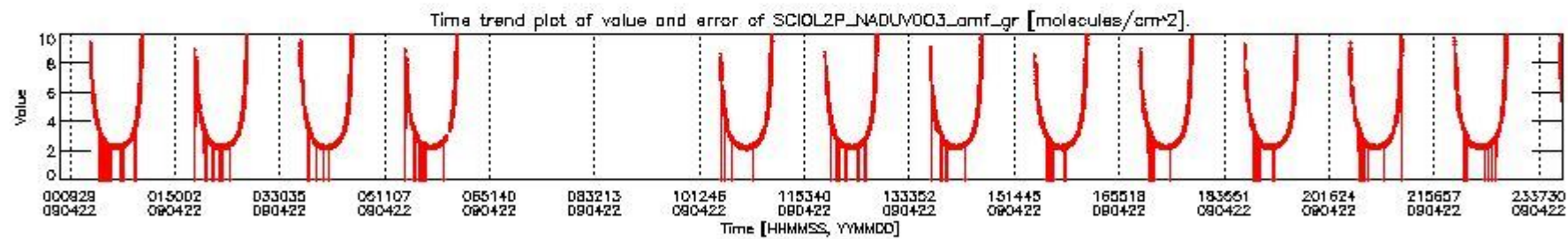
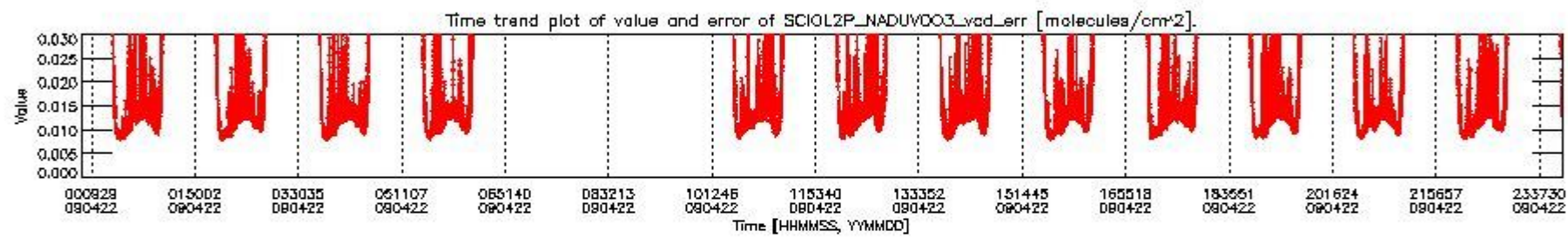
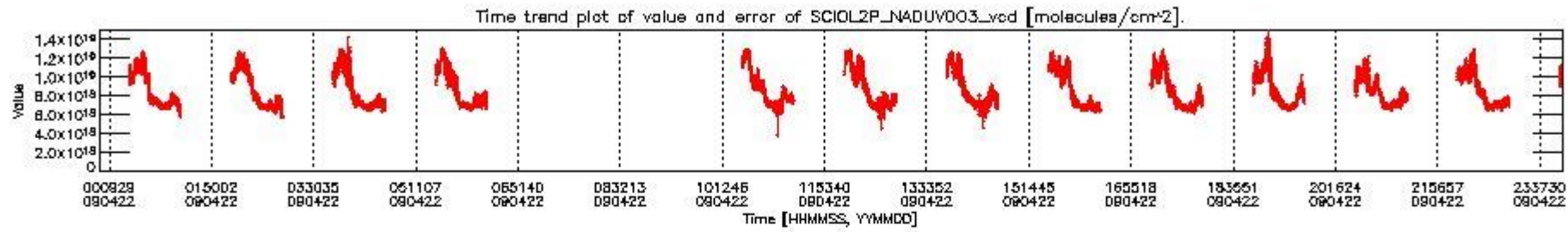
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

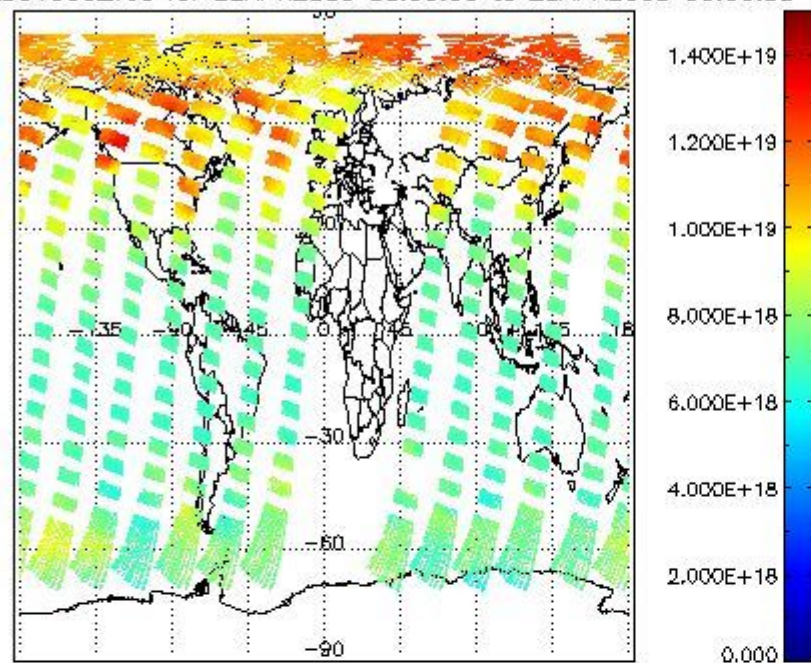
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

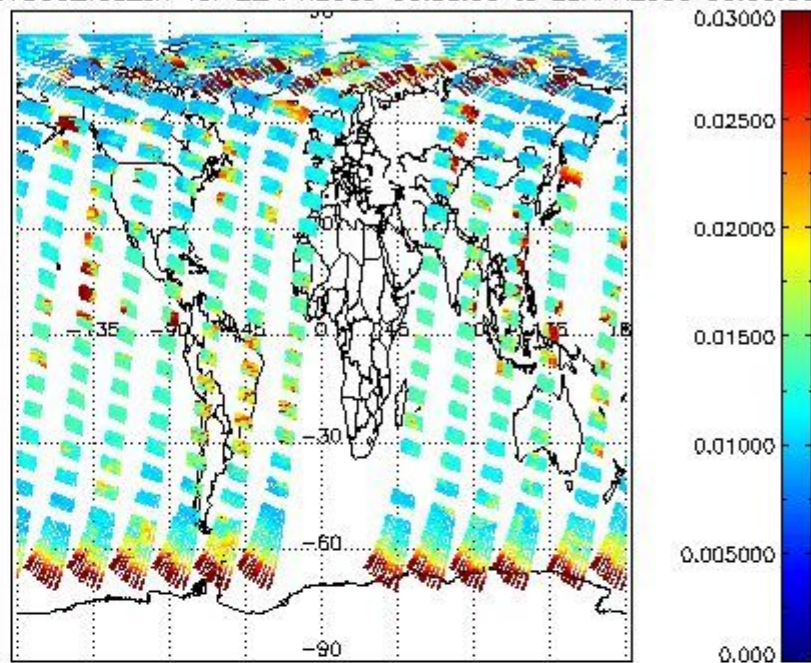
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



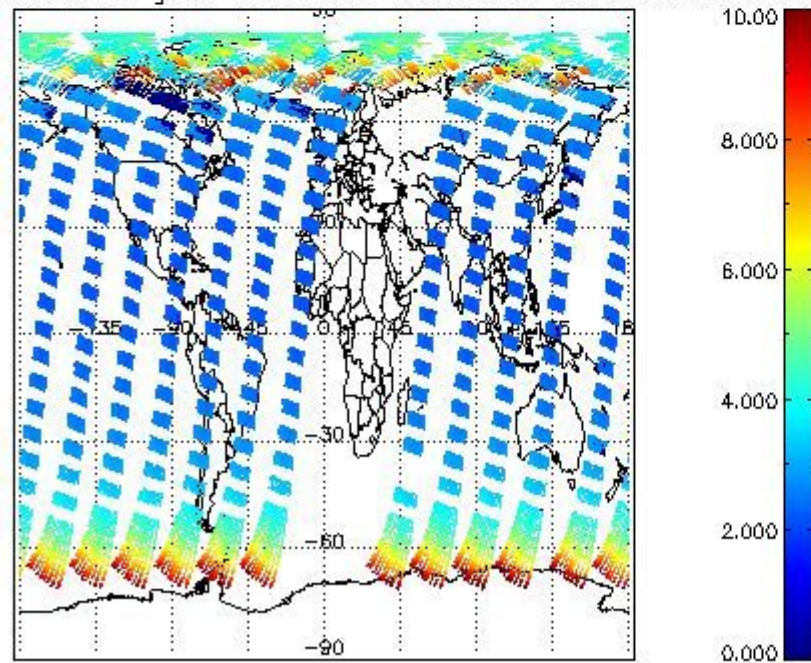
SCIOL2P_NADUV003_vcd for 22APR2009 00:00:00 to 23APR2009 00:00:00



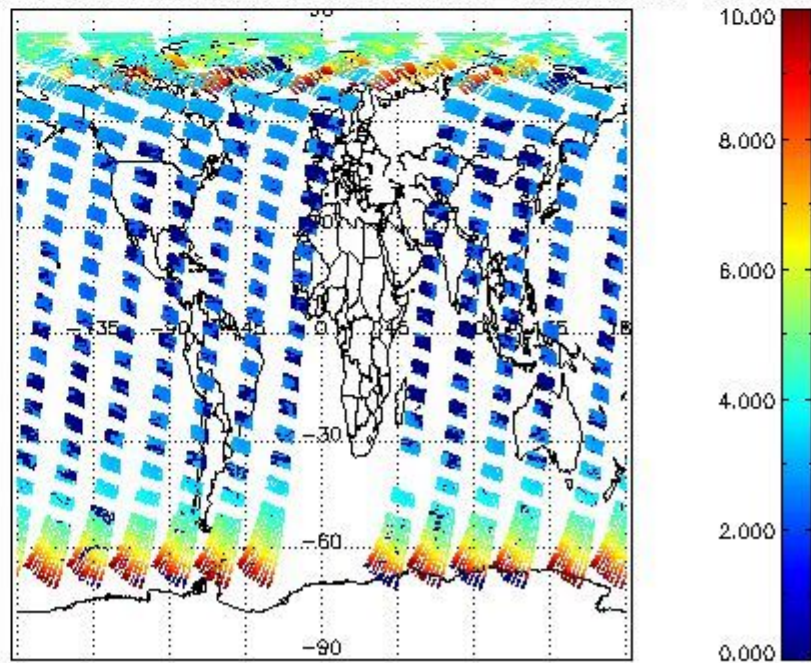
SCIOL2P_NADUV003_vcd_err for 22APR2009 00:00:00 to 23APR2009 00:00:00

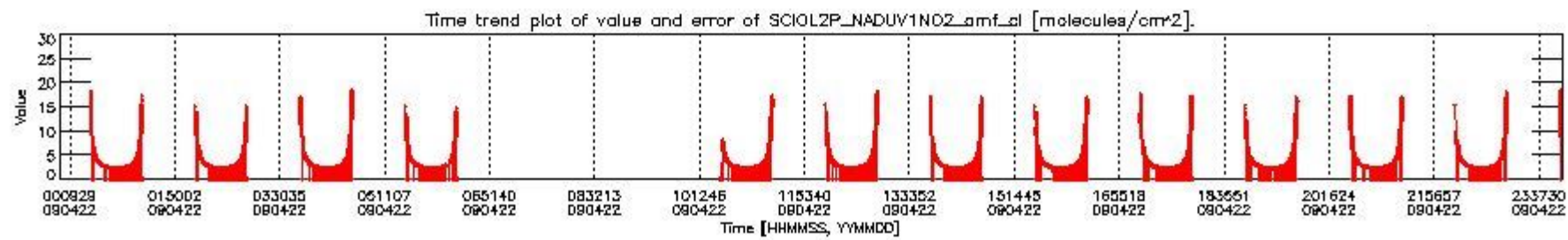
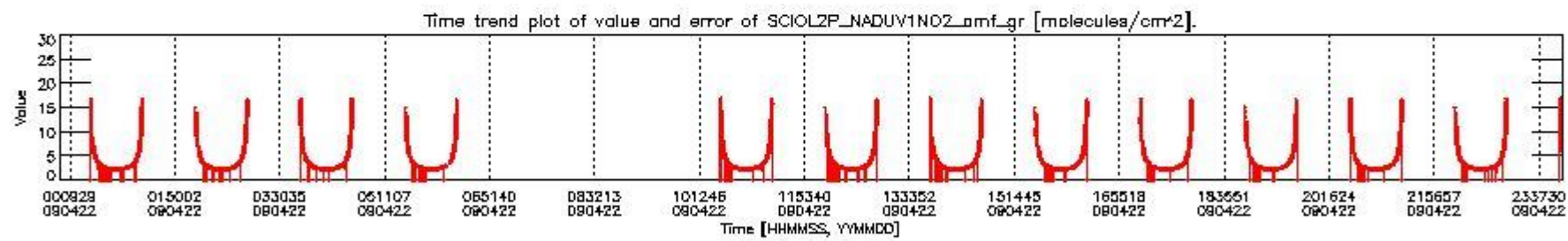
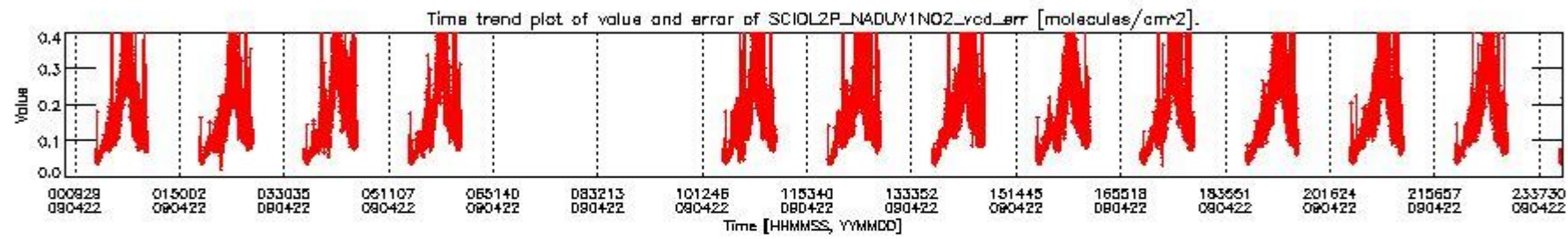
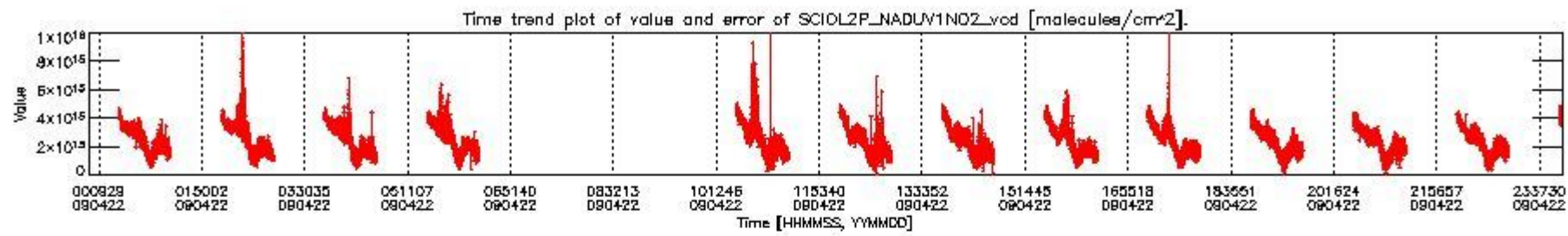


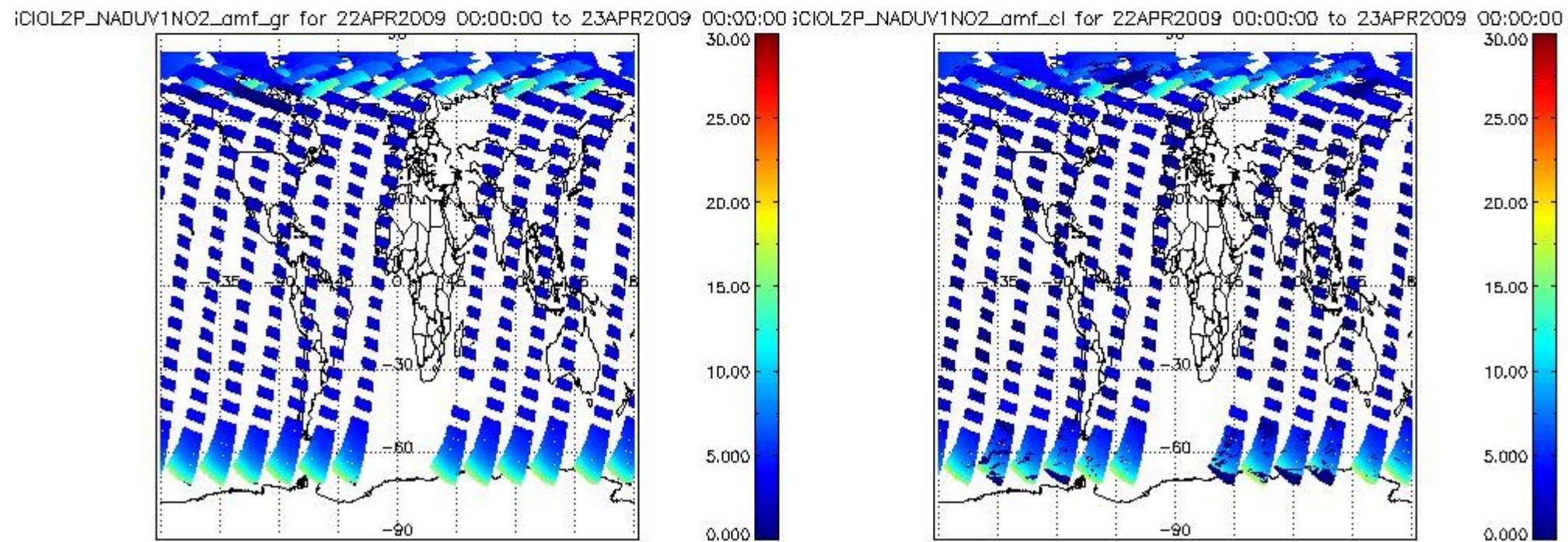
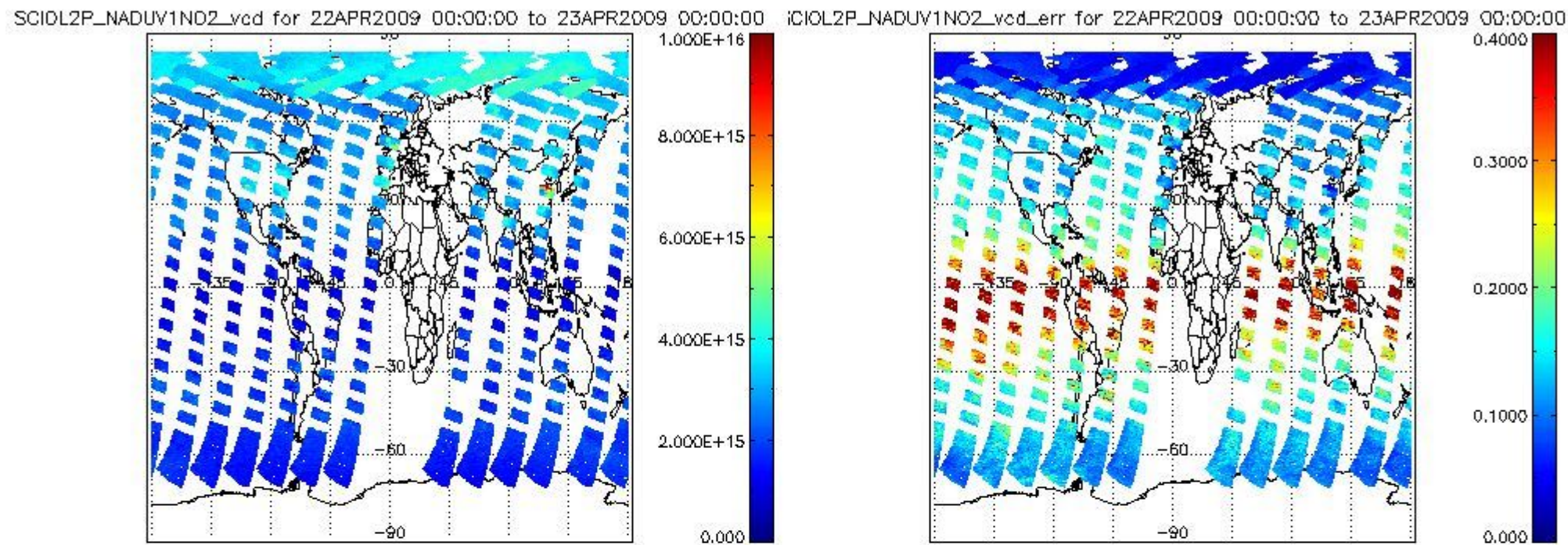
SCIOL2P_NADUV003_amf_gr for 22APR2009 00:00:00 to 23APR2009 00:00:00



SCIOL2P_NADUV003_amf_cl for 22APR2009 00:00:00 to 23APR2009 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:

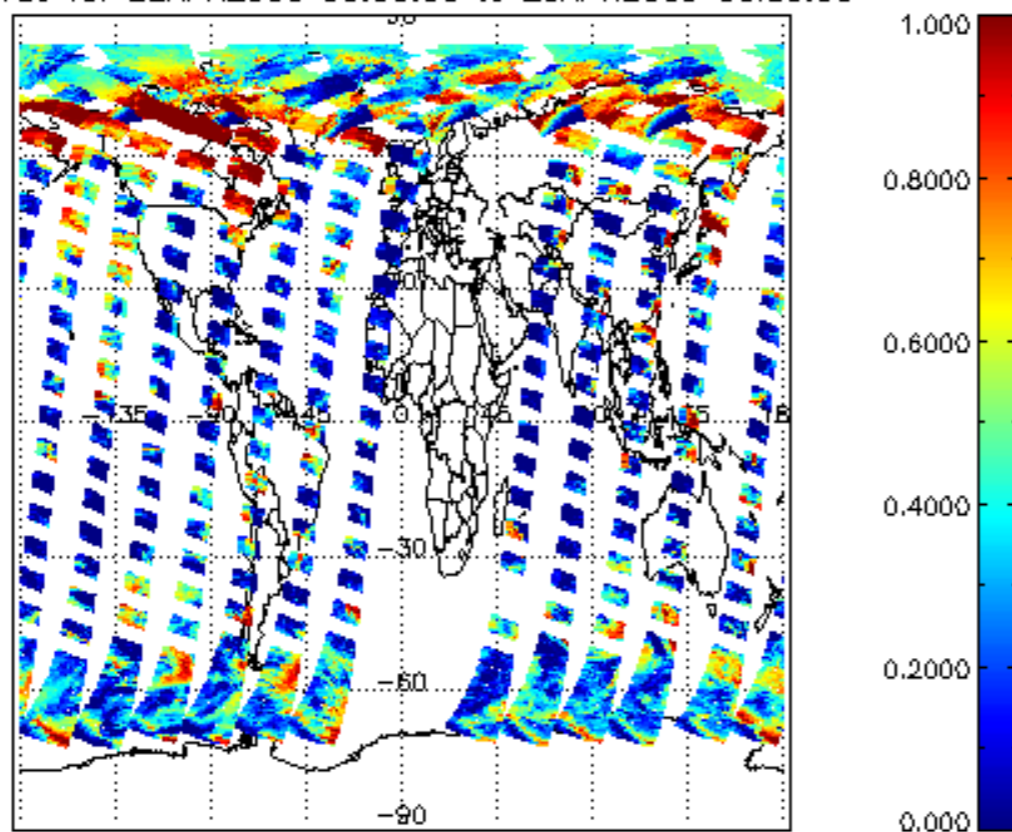
Number	Data item ID
0	SCIOL2PLIMUV003_main_species
1	SCIOL2PLIMUV1NO2_main_species

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

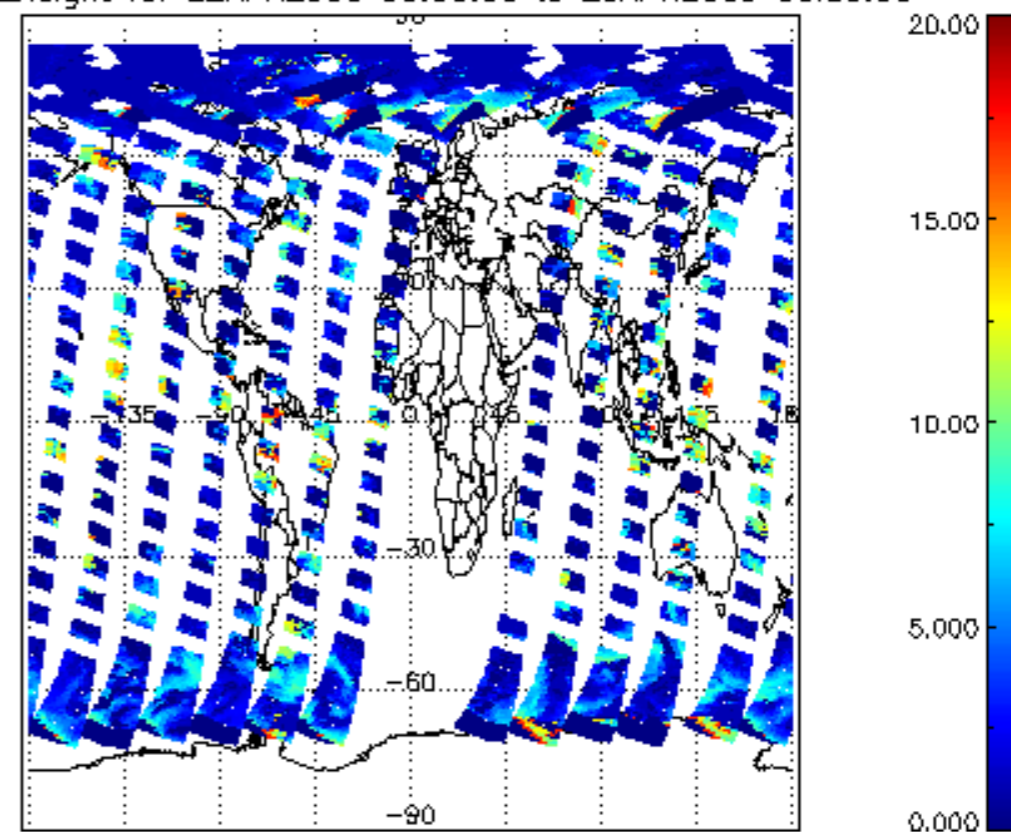
2.3 ADF monitoring

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

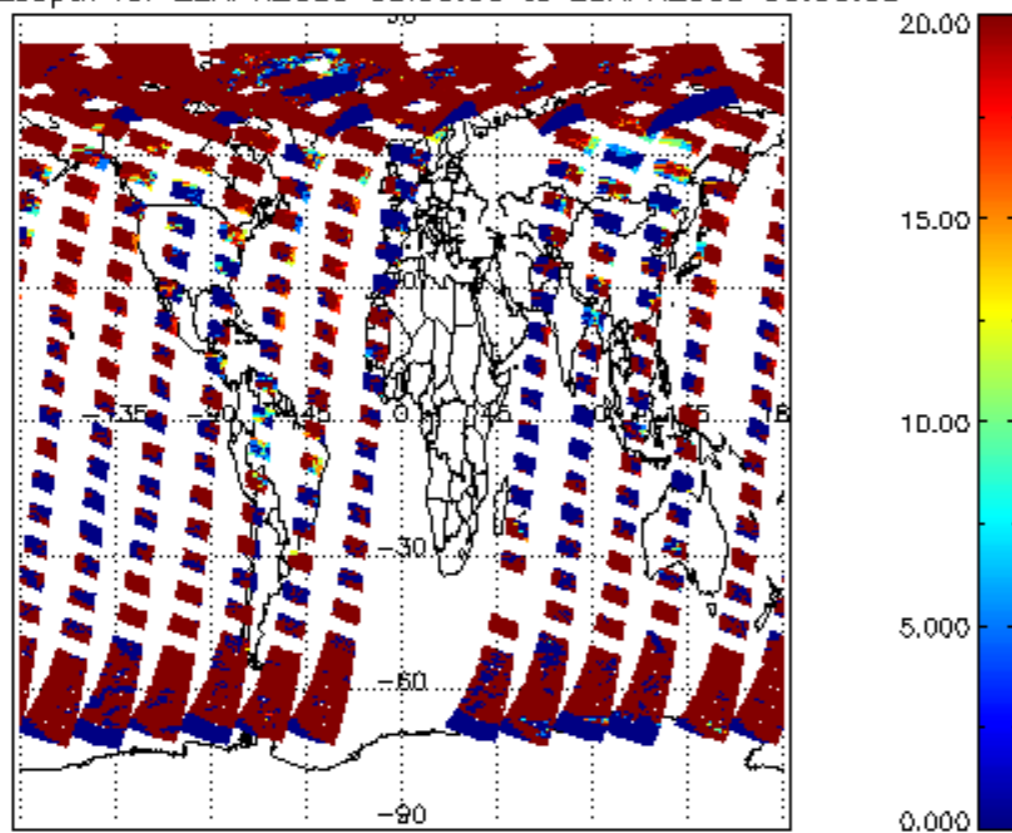
cl_frac for 22APR2009 00:00:00 to 23APR2009 00:00:00



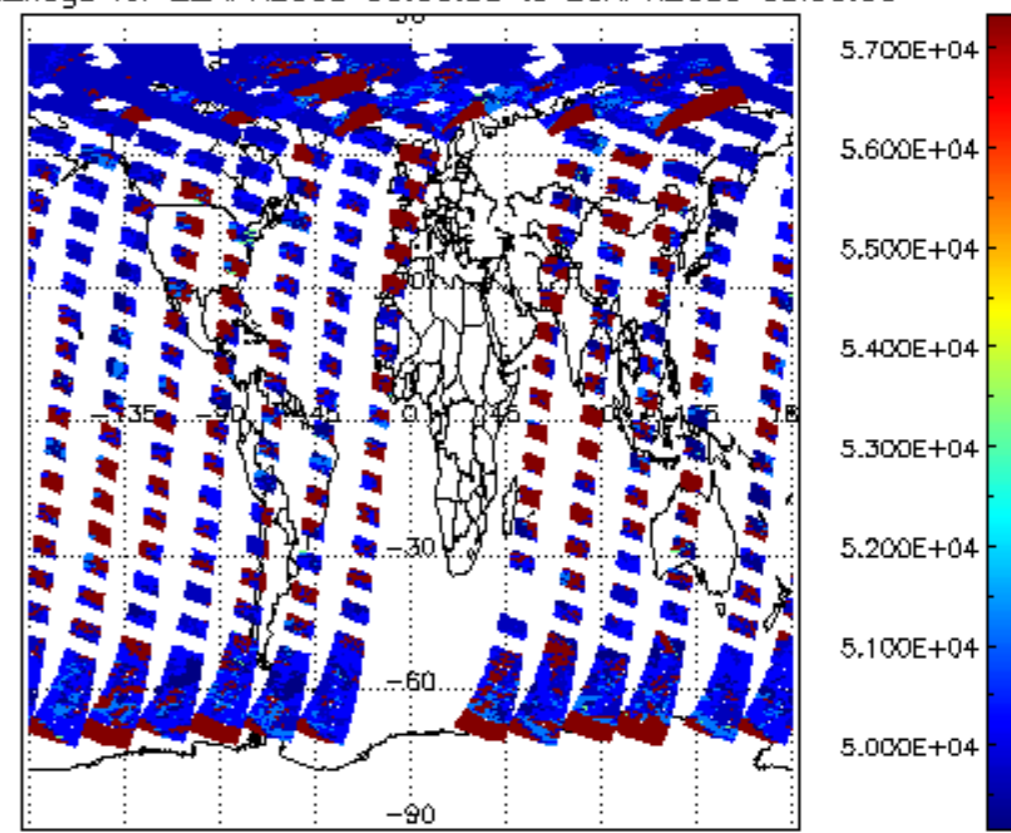
cl_top_height for 22APR2009 00:00:00 to 23APR2009 00:00:00

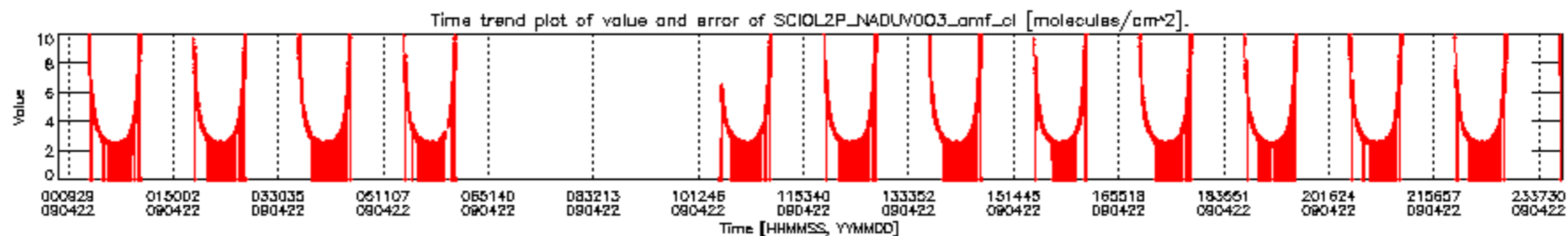
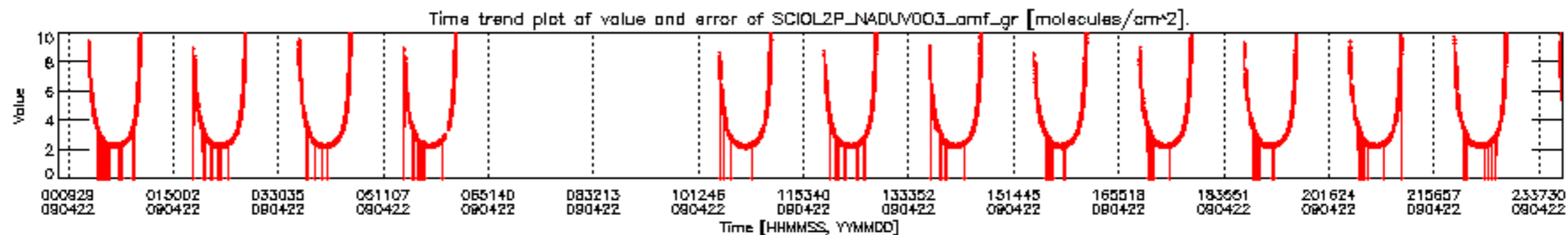
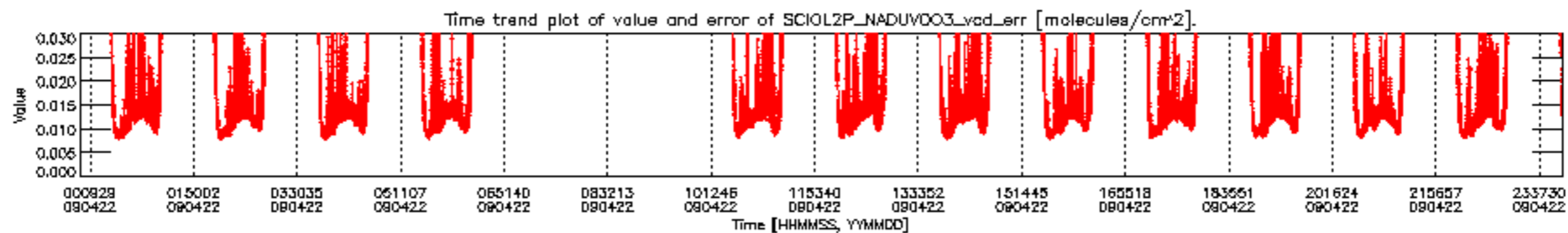
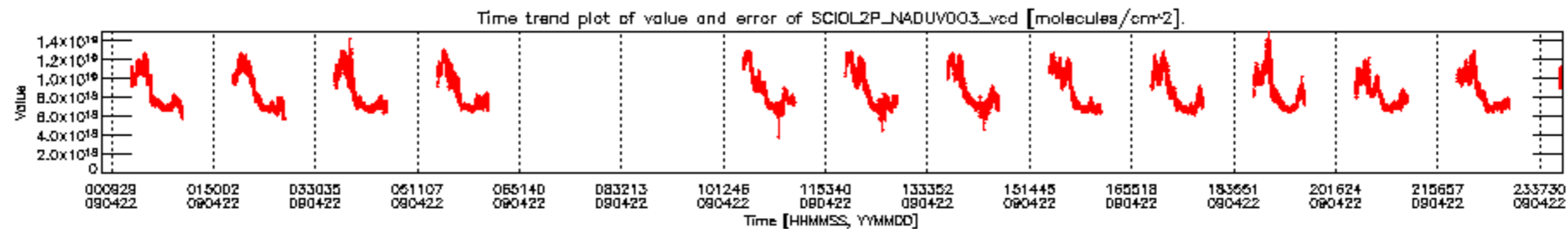


cl_opt_depth for 22APR2009 00:00:00 to 23APR2009 00:00:00

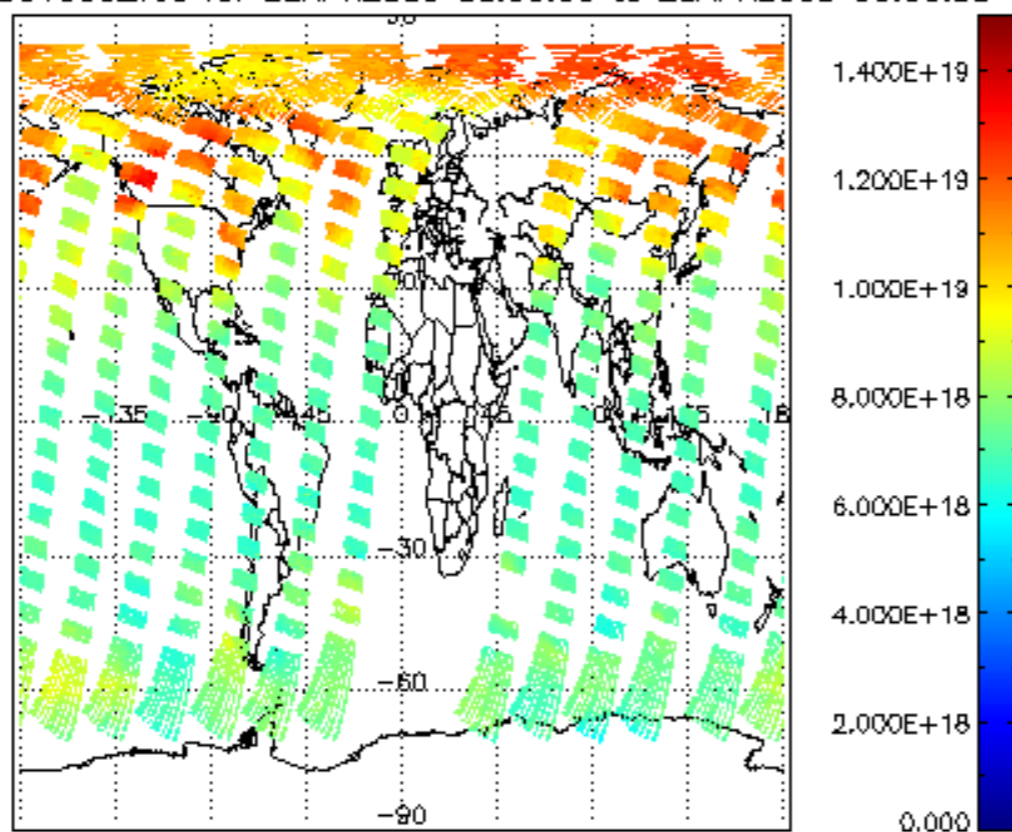


cloud_flags for 22APR2009 00:00:00 to 23APR2009 00:00:00

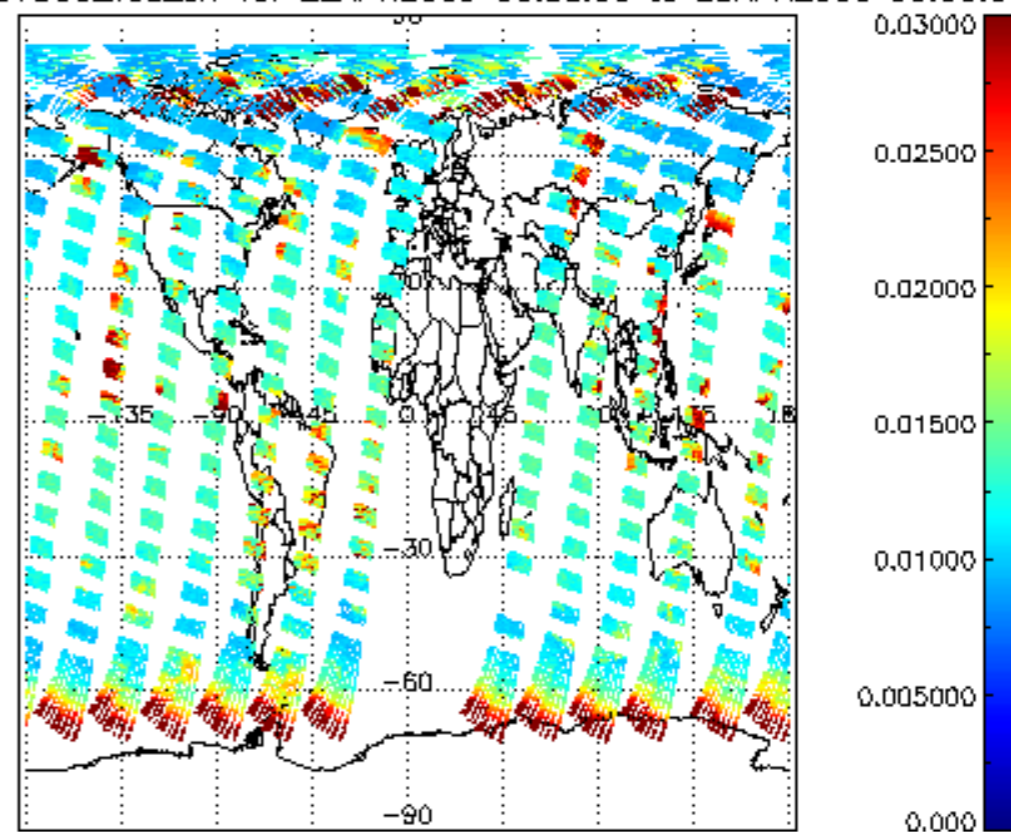




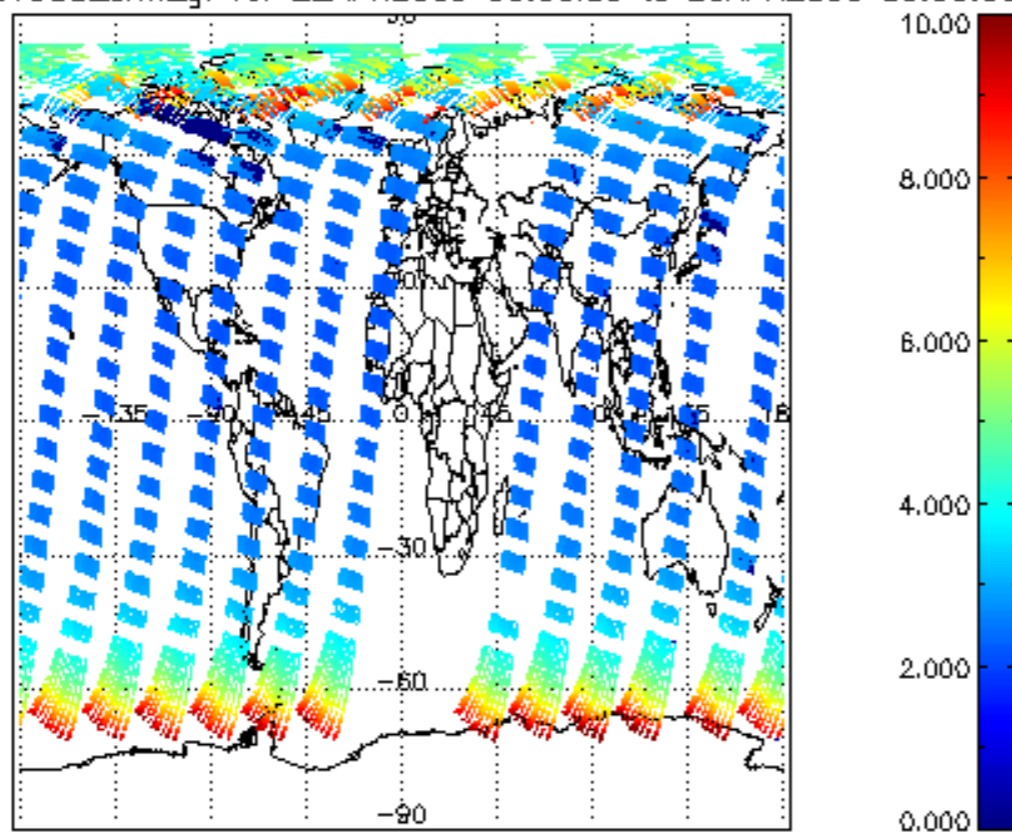
SCIOL2P_NADUV003_vcd for 22APR2009 00:00:00 to 23APR2009 00:00:00



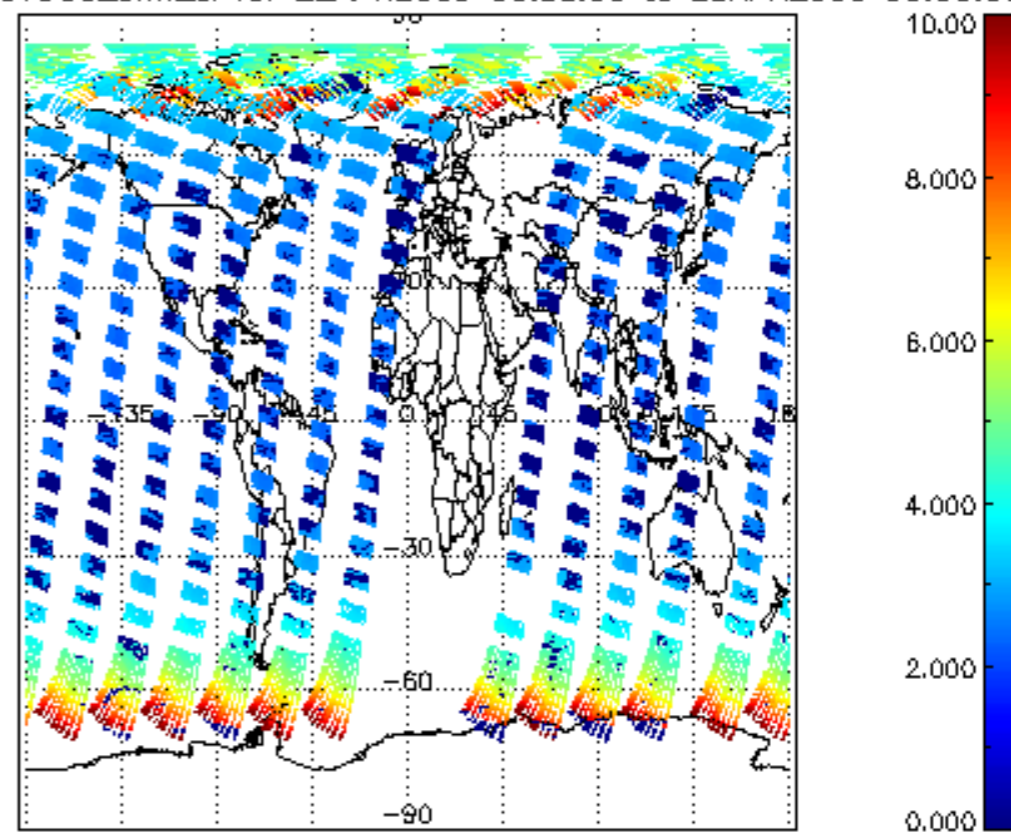
SCIOL2P_NADUV003_vcd_err for 22APR2009 00:00:00 to 23APR2009 00:00:00

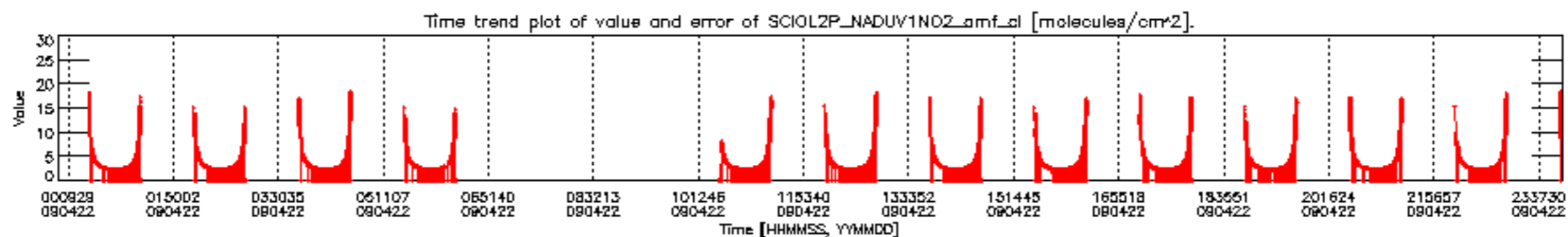
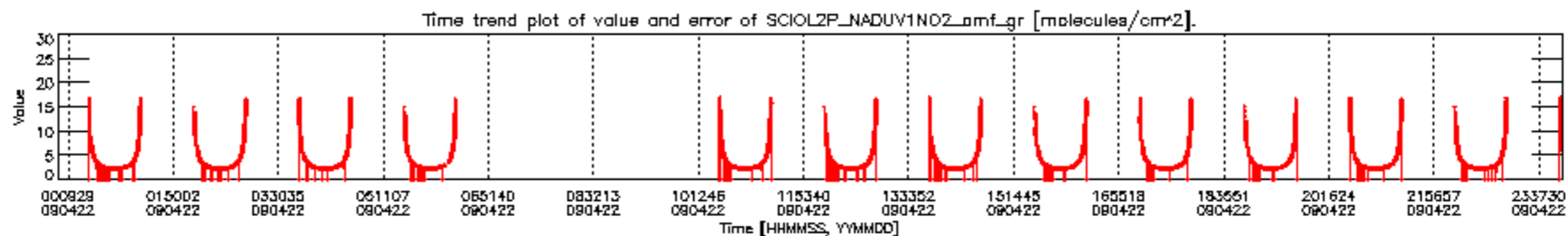
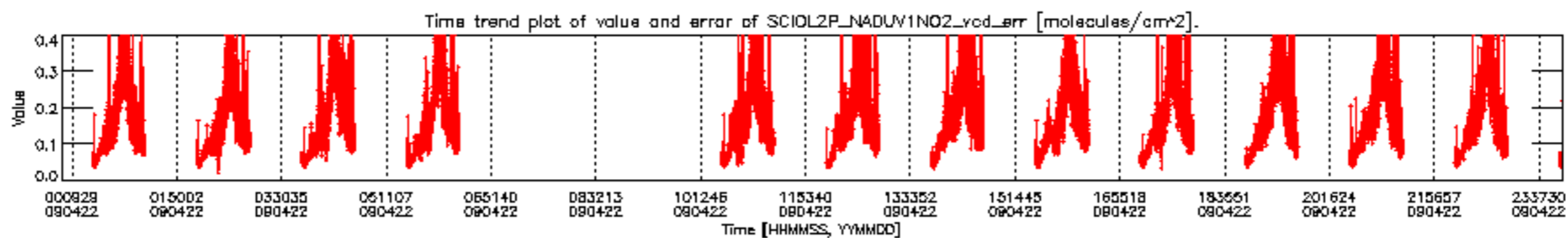
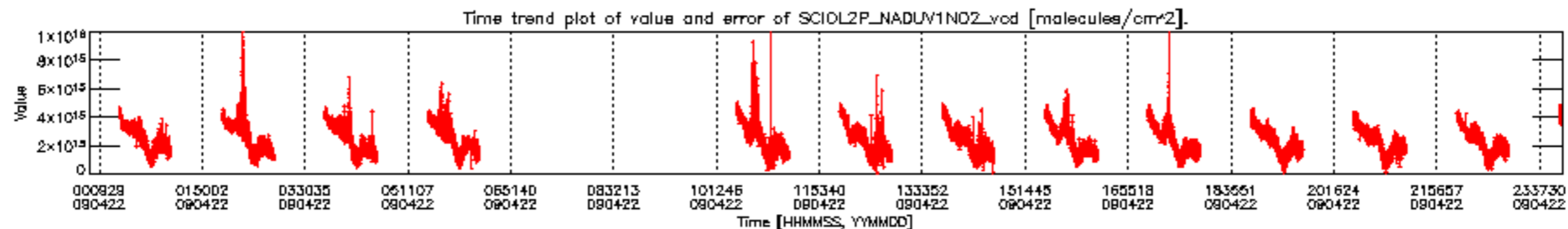


SCIOL2P_NADUV003_amf_gr for 22APR2009 00:00:00 to 23APR2009 00:00:00

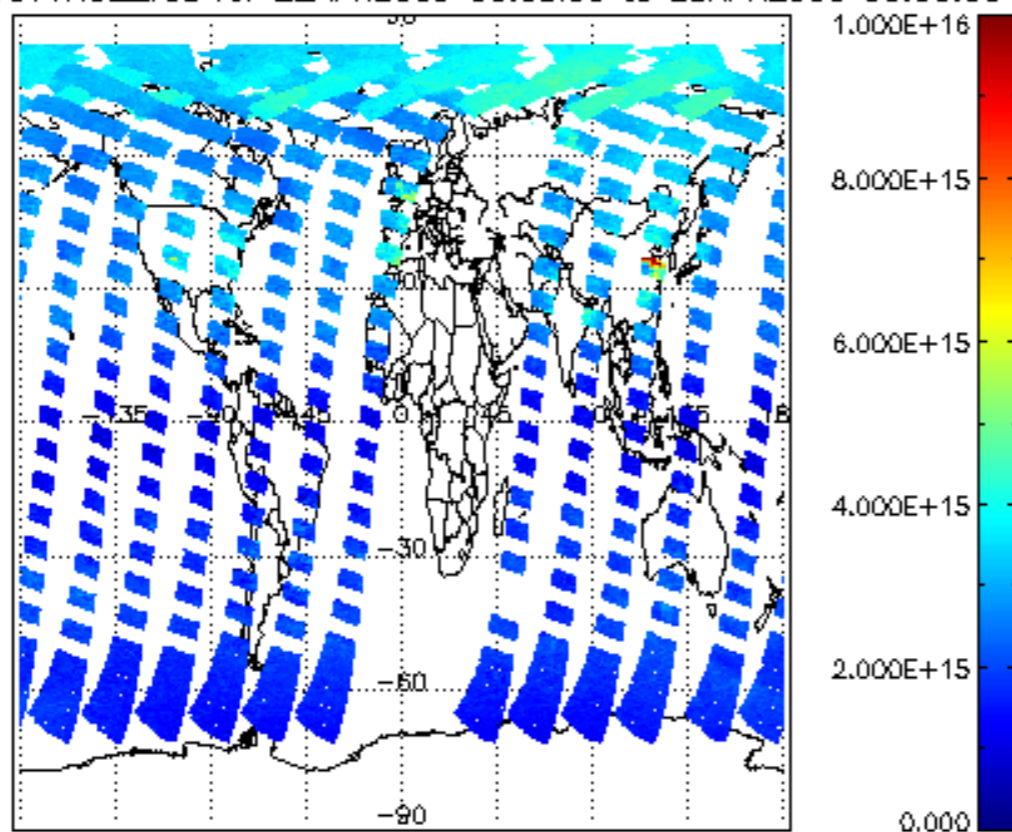


SCIOL2P_NADUV003_amf_cl for 22APR2009 00:00:00 to 23APR2009 00:00:00

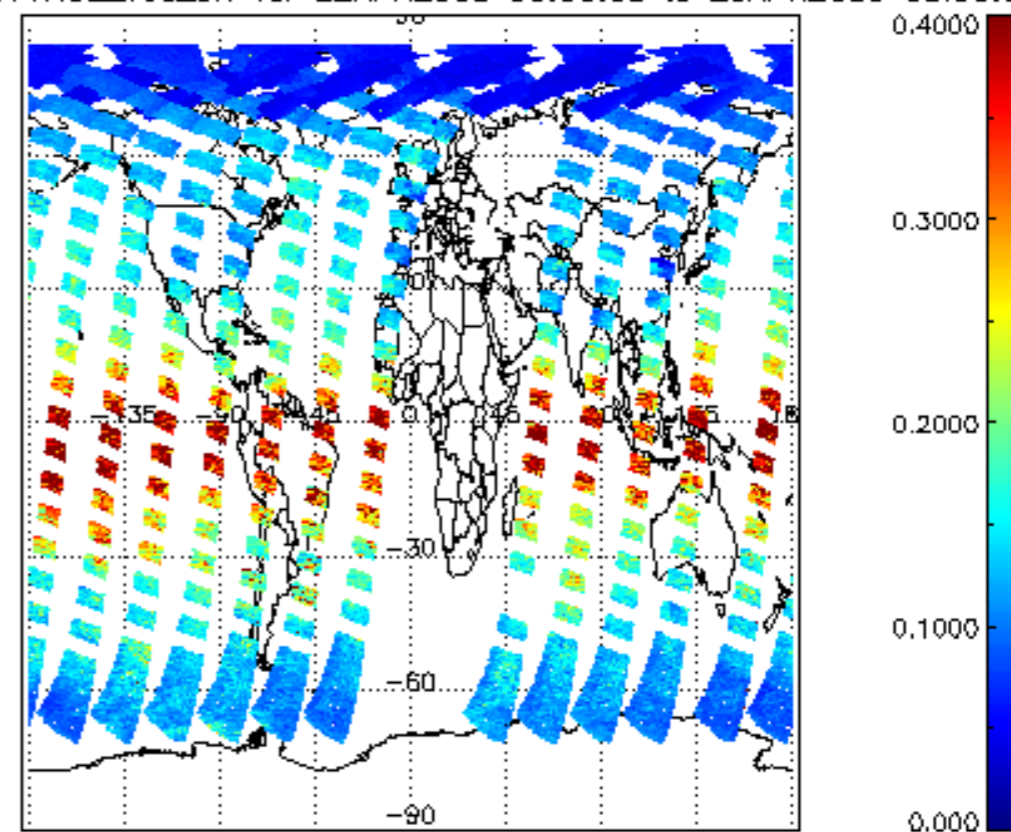




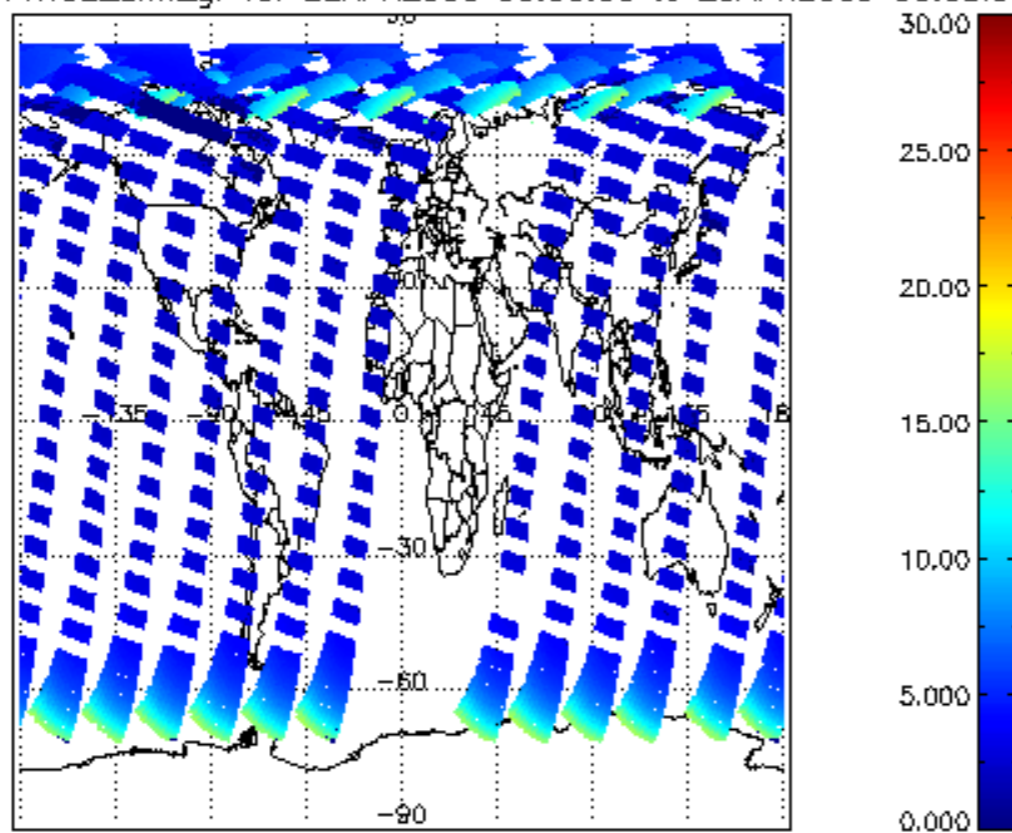
SCIOL2P_NADUV1NO2_vcd for 22APR2009 00:00:00 to 23APR2009 00:00:00



iCIOL2P_NADUV1NO2_vcd_err for 22APR2009 00:00:00 to 23APR2009 00:00:00



iCIOL2P_NADUV1NO2_amf_gr for 22APR2009 00:00:00 to 23APR2009 00:00:00



iCIOL2P_NADUV1NO2_amf_cl for 22APR2009 00:00:00 to 23APR2009 00:00:00

