

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	22NOV2009 03:07:42
Data source version	SCIA-OL/3.01-R
Processing scope for products	04NOV2009 00:00:00 to 05NOV2009 00:00:00
Start time of first product within scope	03NOV2009 23:32:11
Stop time of last product within scope	04NOV2009 23:57:01
Total number of level 2 products	15
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__2PRDPA20091103_233211_000033812084_00016_40150_5169.N1	03NOV2009 23:32:11	04NOV2009 00:28:32	0	GOOD
1	SCI_OL__2PRDPA20091104_011752_000030202084_00017_40151_5170.N1	04NOV2009 01:17:52	04NOV2009 02:08:13	0	GOOD
2	SCI_OL__2PRDPA20091104_025720_000031452084_00018_40152_5171.N1	04NOV2009 02:57:20	04NOV2009 03:49:45	0	GOOD
3	SCI_OL__2PRDPA20091104_043905_000030202084_00019_40153_5172.N1	04NOV2009 04:39:05	04NOV2009 05:29:25	0	GOOD
4	SCI_OL__2PRDPA20091104_061832_000031452084_00020_40154_5173.N1	04NOV2009 06:18:32	04NOV2009 07:10:58	0	GOOD
5	SCI_OL__2PRDPA20091104_080017_000030202084_00021_40155_5174.N1	04NOV2009 08:00:17	04NOV2009 08:50:38	0	GOOD
6	SCI_OL__2PRDPA20091104_093945_000031452084_00022_40156_5175.N1	04NOV2009 09:39:45	04NOV2009 10:32:10	0	GOOD
7	SCI_OL__2PRDPA20091104_112130_000030202084_00023_40157_5176.N1	04NOV2009 11:21:30	04NOV2009 12:11:51	0	GOOD
8	SCI_OL__2PRDPA20091104_130057_000031452084_00024_40158_5177.N1	04NOV2009 13:00:57	04NOV2009 13:53:23	0	GOOD
9	SCI_OL__2PRDPA20091104_144242_000030202084_00025_40159_5178.N1	04NOV2009 14:42:42	04NOV2009 15:33:03	0	GOOD
10	SCI_OL__2PRDPA20091104_162210_000031452084_00026_40160_5179.N1	04NOV2009 16:22:10	04NOV2009 17:14:35	0	GOOD
11	SCI_OL__2PRDPA20091104_180415_000030202084_00027_40161_5180.N1	04NOV2009 18:04:15	04NOV2009 18:54:36	0	GOOD
12	SCI_OL__2PRDPA20091104_194343_000030762084_00028_40162_5181.N1	04NOV2009 19:43:43	04NOV2009 20:35:00	0	GOOD
13	SCI_OL__2PRDPA20091104_212508_000030202084_00029_40163_5182.N1	04NOV2009 21:25:08	04NOV2009 22:15:29	0	GOOD
14	SCI_OL__2PRDPA20091104_230436_000031452084_00030_40164_5183.N1	04NOV2009 23:04:36	04NOV2009 23:57:01	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: 152885

Total number of cloud data DSRs with good quality flag (=0): 152885 (100.0 %)

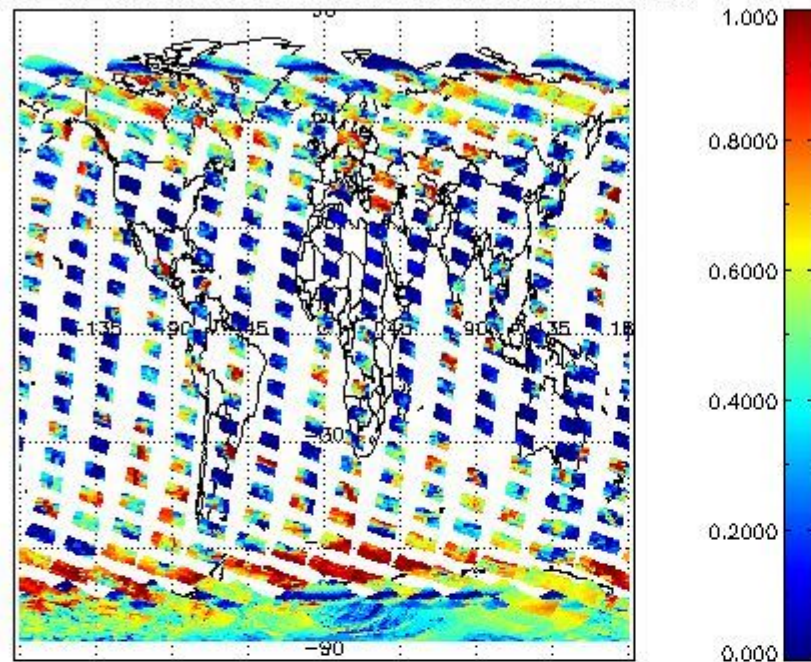
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	152885	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	152885	0.16965	0.12500	0.12500	0.25000	0.059896	s
CL_FRAC	152885	0.39432	0.39067	0.0000	1.0000	0.28065	-
CL_FRAC_ERR	152885	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	152885	5.4287	4.0000	4.0000	8.0000	1.9167	
PMD_READ_CL[0]	152885	0.20154	0.0000	0.0000	8.0000	1.0101	-
PMD_READ_CL[1]	152885	1.1343	0.0000	0.0000	8.0000	2.3922	-
CL_TOP_HEIGHT	129290	4.2375	3.0193	0.0000	17.000	4.1693	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	129290	55.186	49.003	0.0000	101.00	40.776	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	152885	11100000	11100000	11100000	11100000	0.0000	flags
CLOUD_FLAGS	152885	11001011	11000100	11000000	11100000	3347.5	flags
AERO_ABSO_IND	152885	3.9802	4.6159	-0.11652	18.122	2.7087	
AERO_IND_DIAG	152885	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	152885	01010110	00000000	00000000	11000000	24464.	flags

Time and geolocation plots:

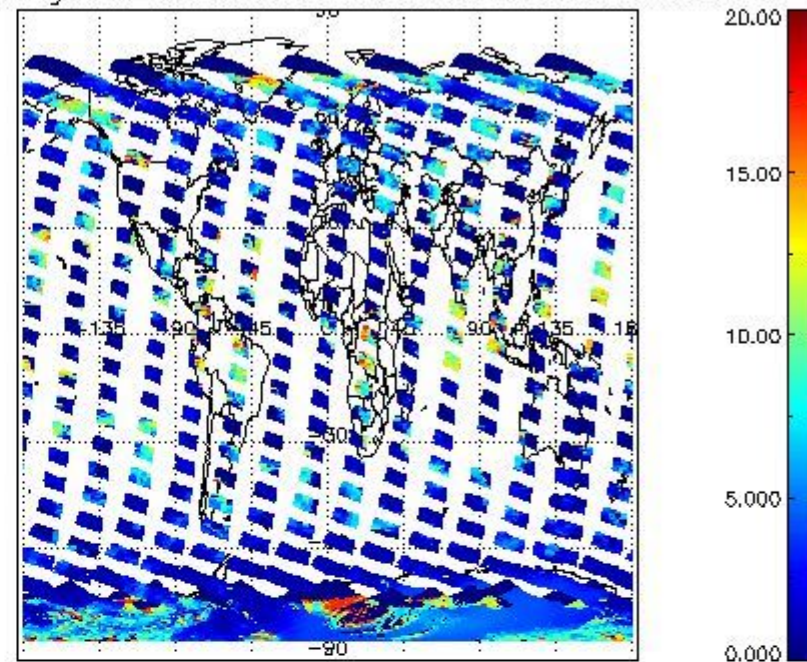
Plots are available for the following parameters:

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

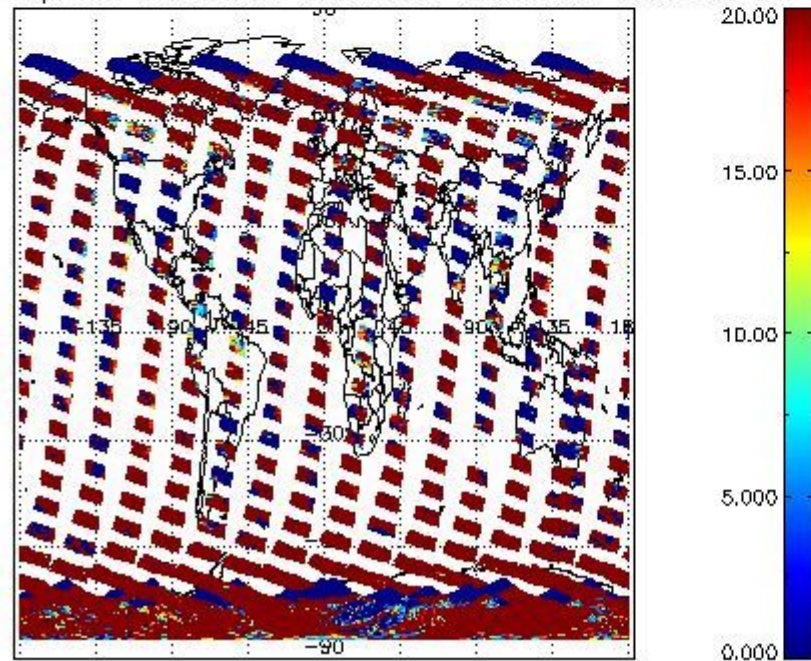
cLfrac for 04NOV2009 00:00:00 to 05NOV2009 00:00:00



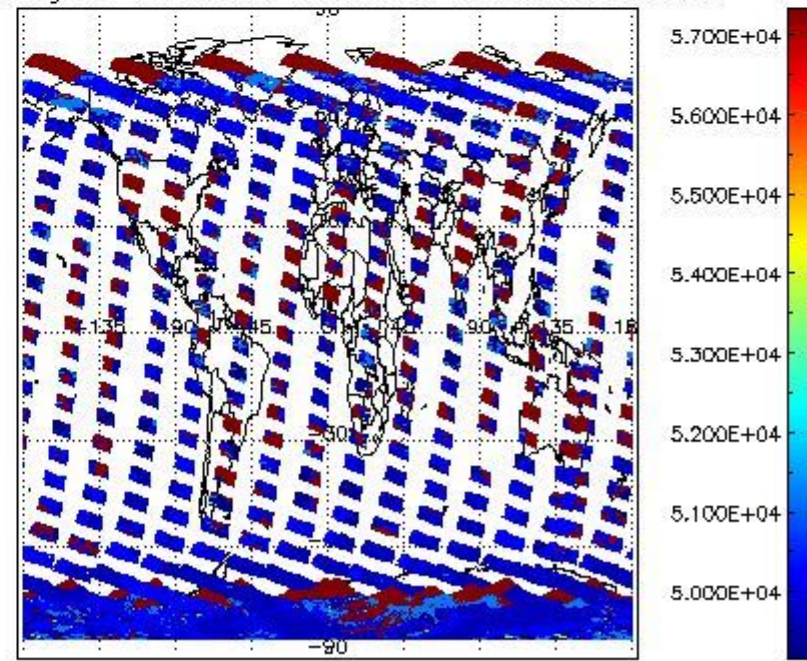
cL_top_height for 04NOV2009 00:00:00 to 05NOV2009 00:00:00



cLopt_depth for 04NOV2009 00:00:00 to 05NOV2009 00:00:00



cloud_flags for 04NOV2009 00:00:00 to 05NOV2009 00:00:00



2.2.2 Nadir

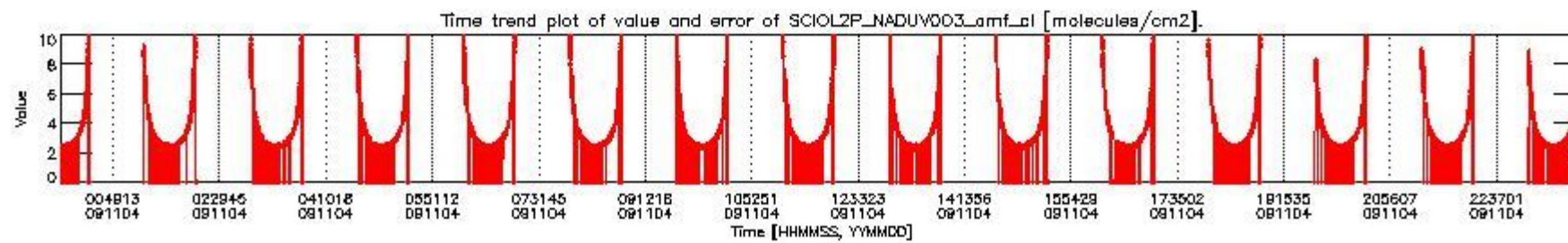
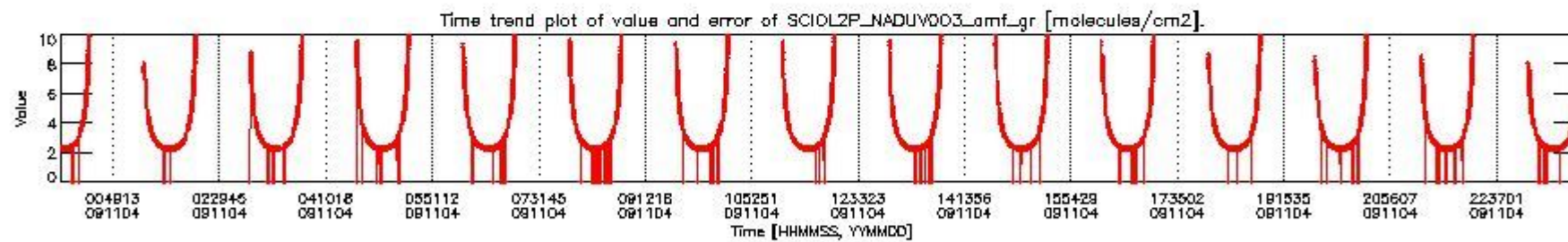
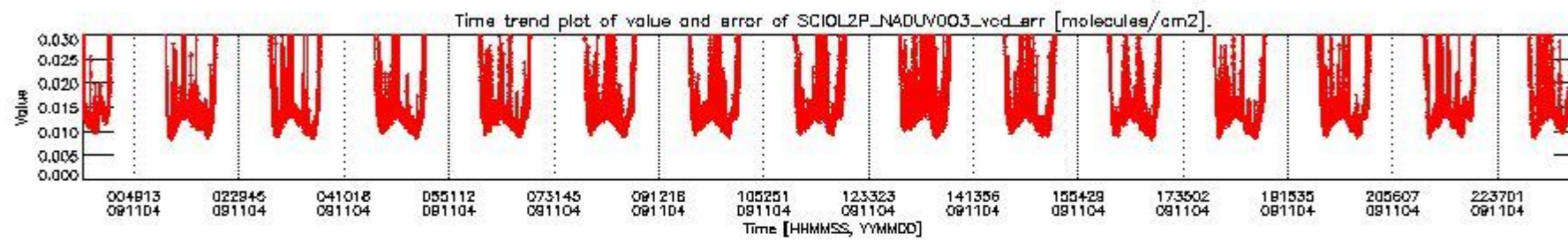
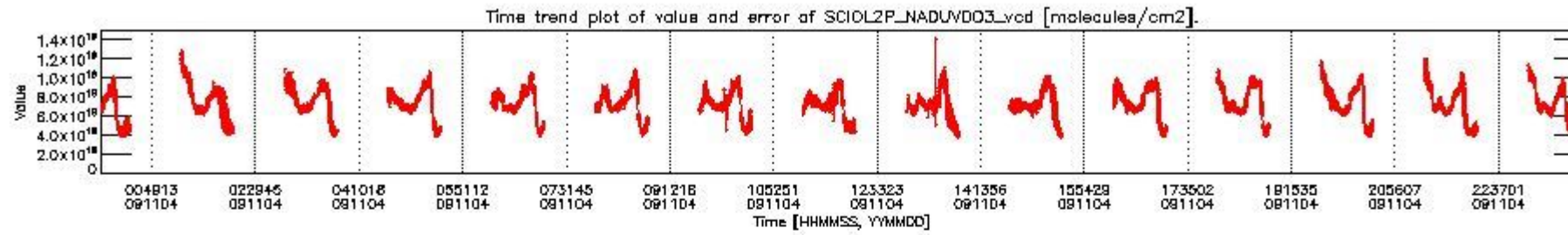
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

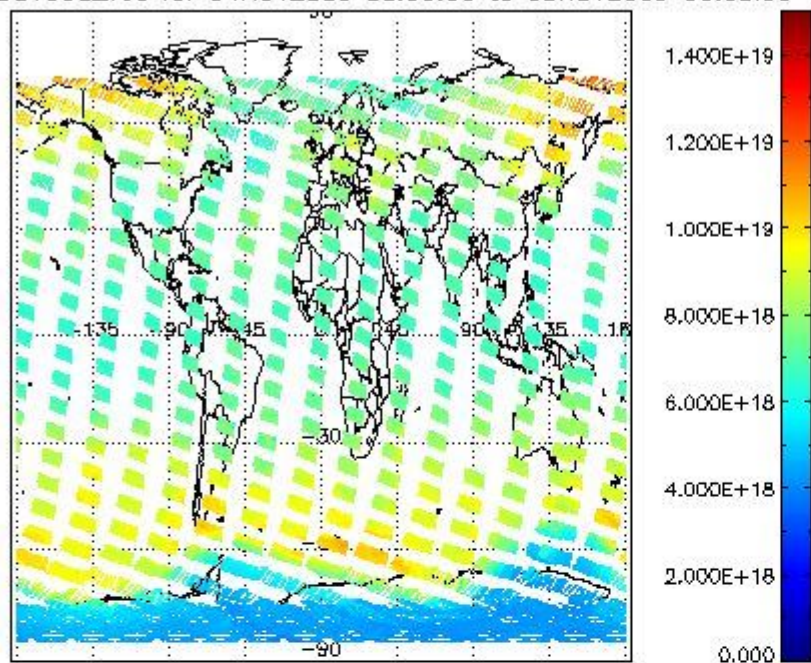
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

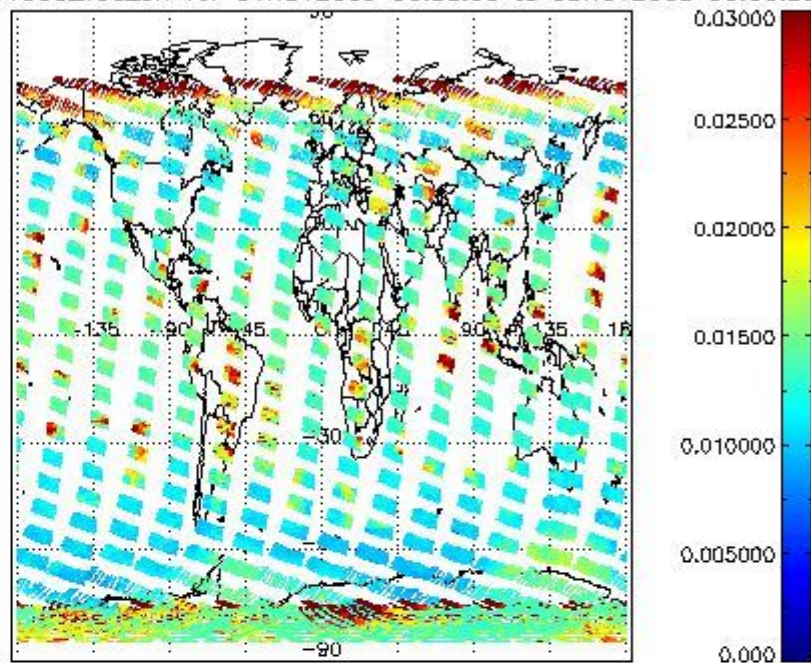
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



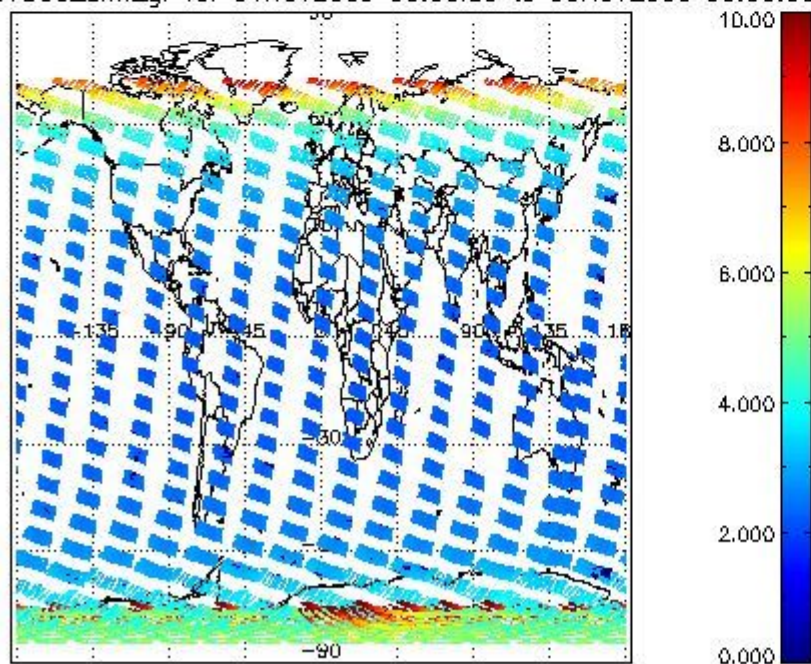
SCIOL2P_NADUV003_vcd for 04NOV2009 00:00:00 to 05NOV2009 00:00:00



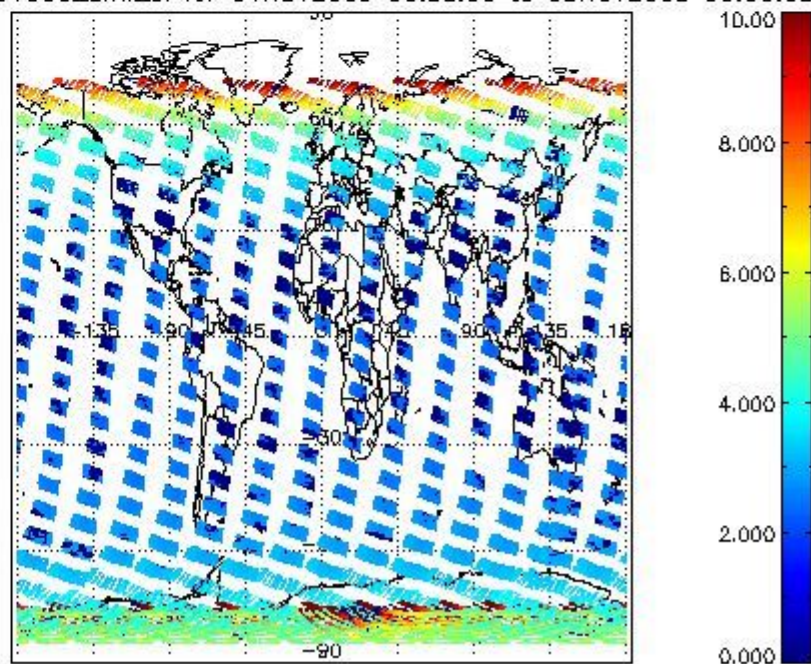
SCIOL2P_NADUV003_vcd_err for 04NOV2009 00:00:00 to 05NOV2009 00:00:00

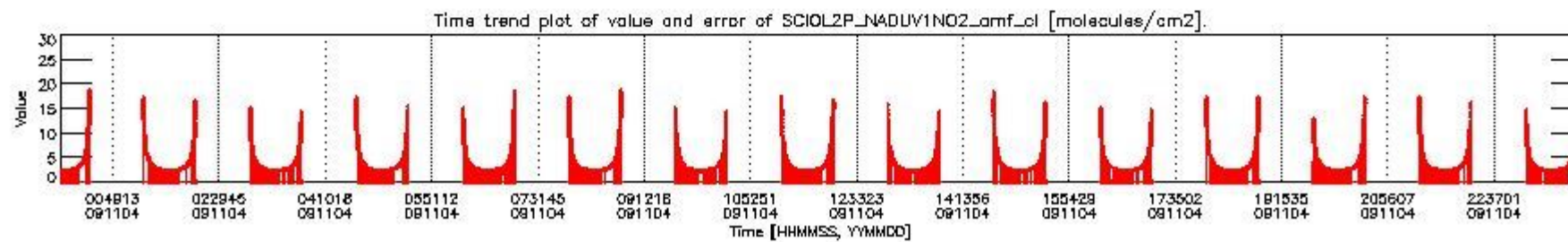
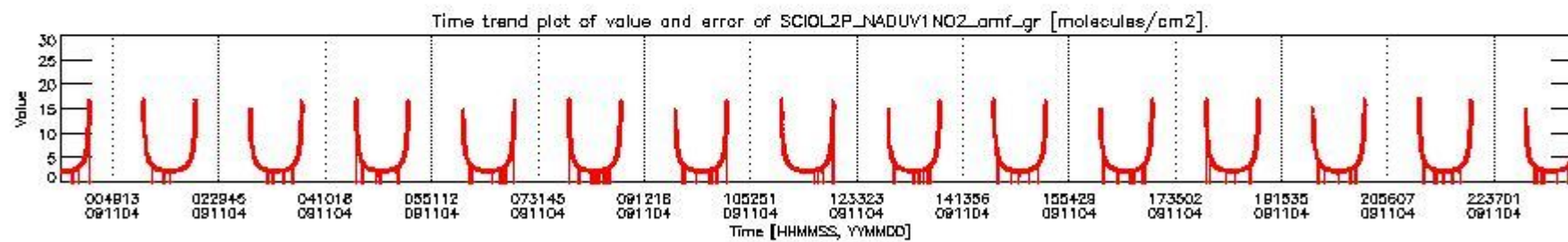
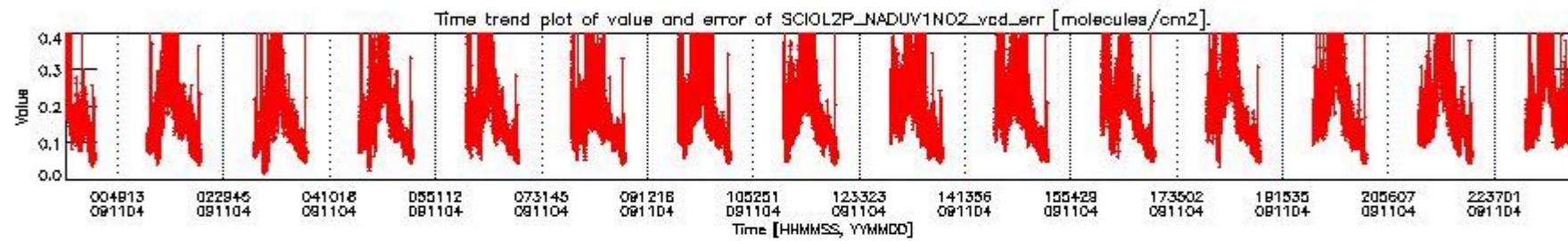
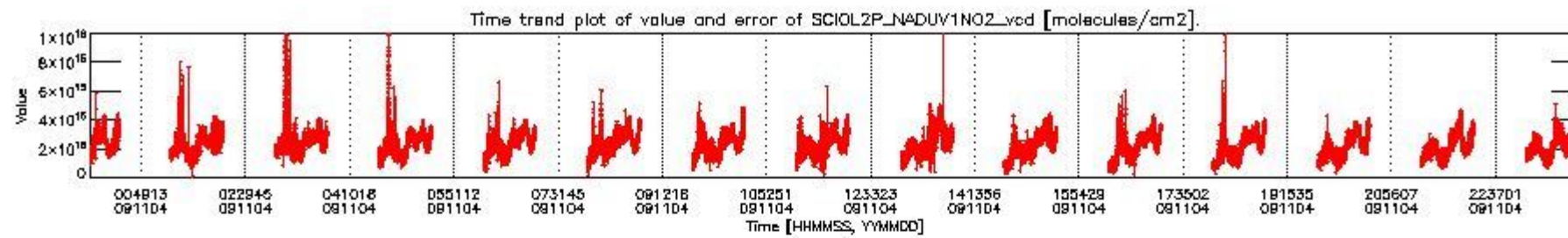


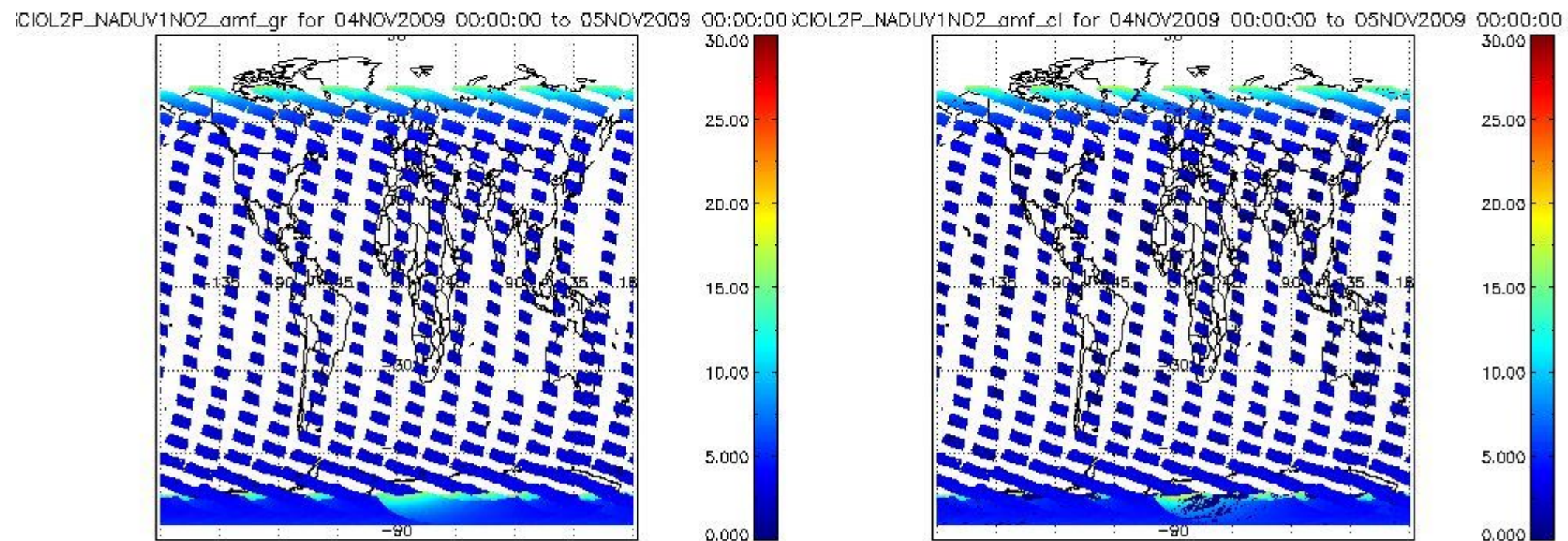
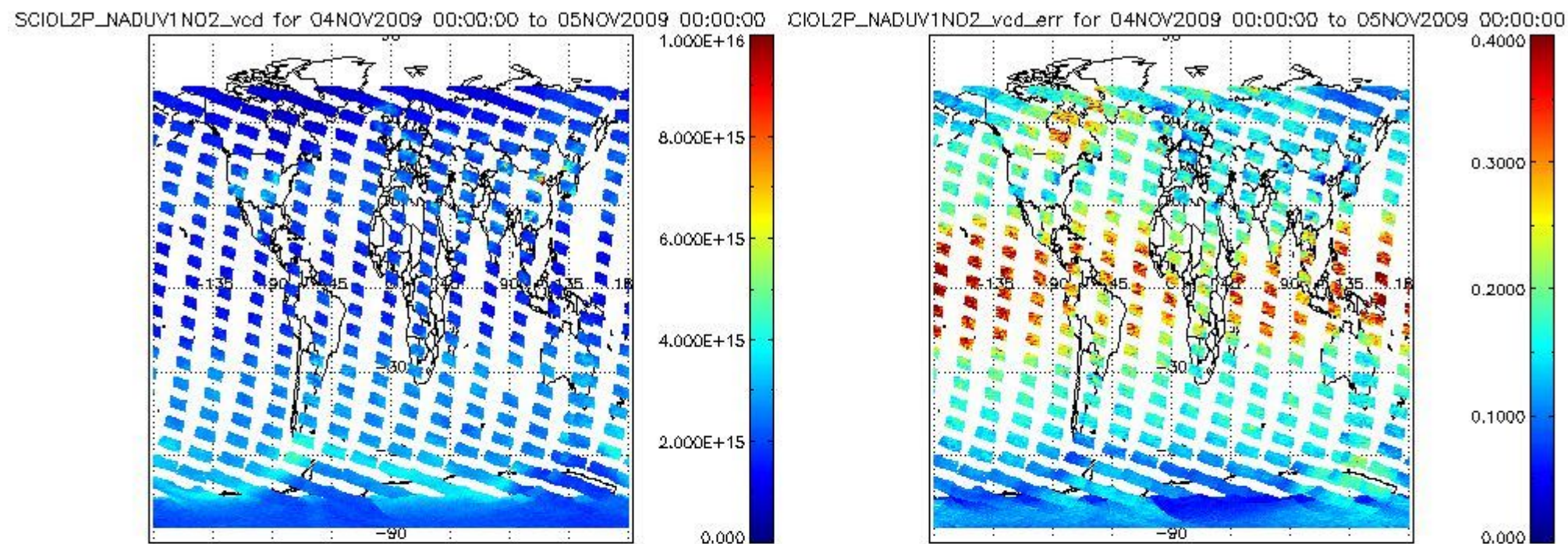
SCIOL2P_NADUV003_amf_gr for 04NOV2009 00:00:00 to 05NOV2009 00:00:00



SCIOL2P_NADUV003_amf_cl for 04NOV2009 00:00:00 to 05NOV2009 00:00:00







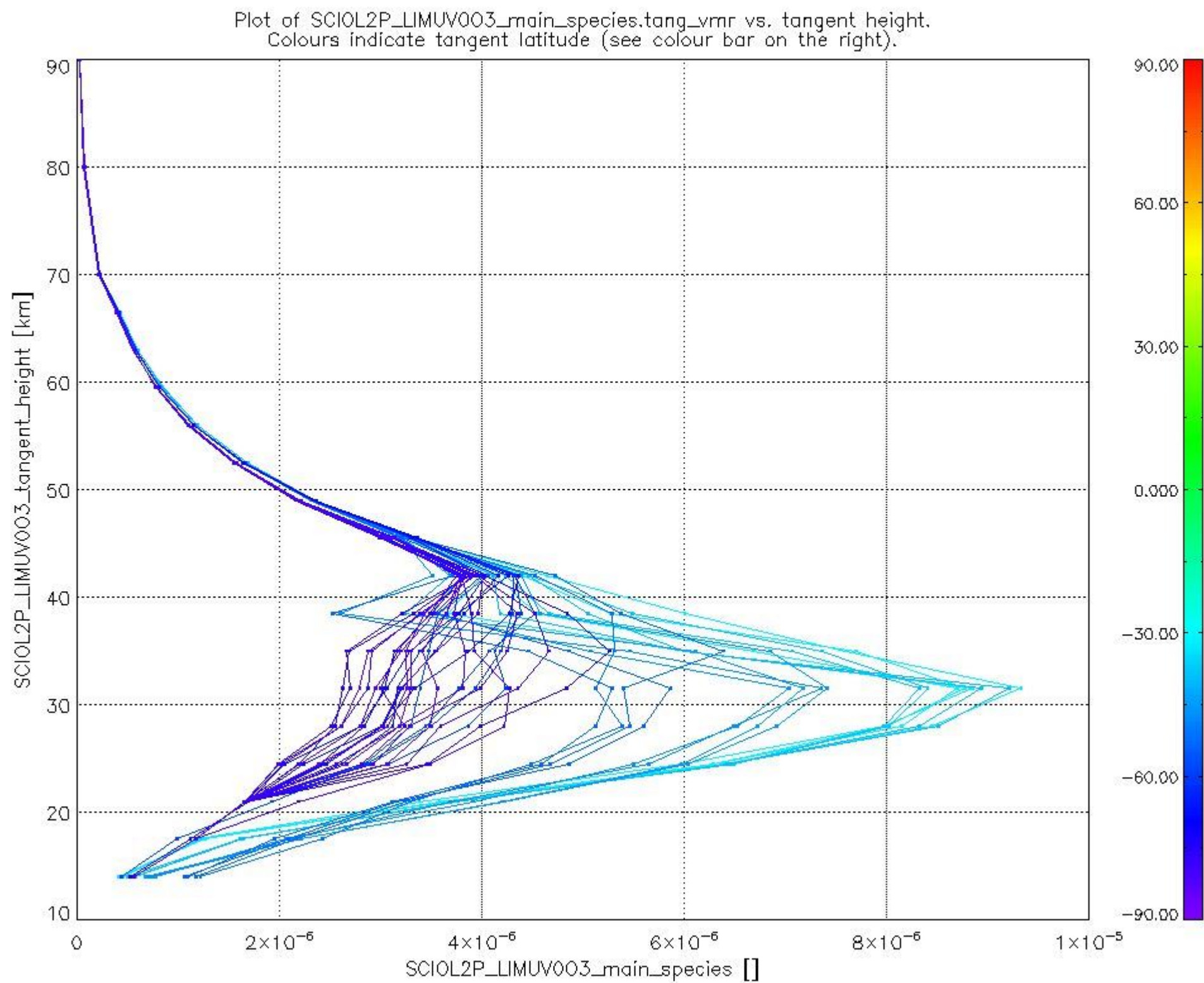
2.2.3 Limb

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

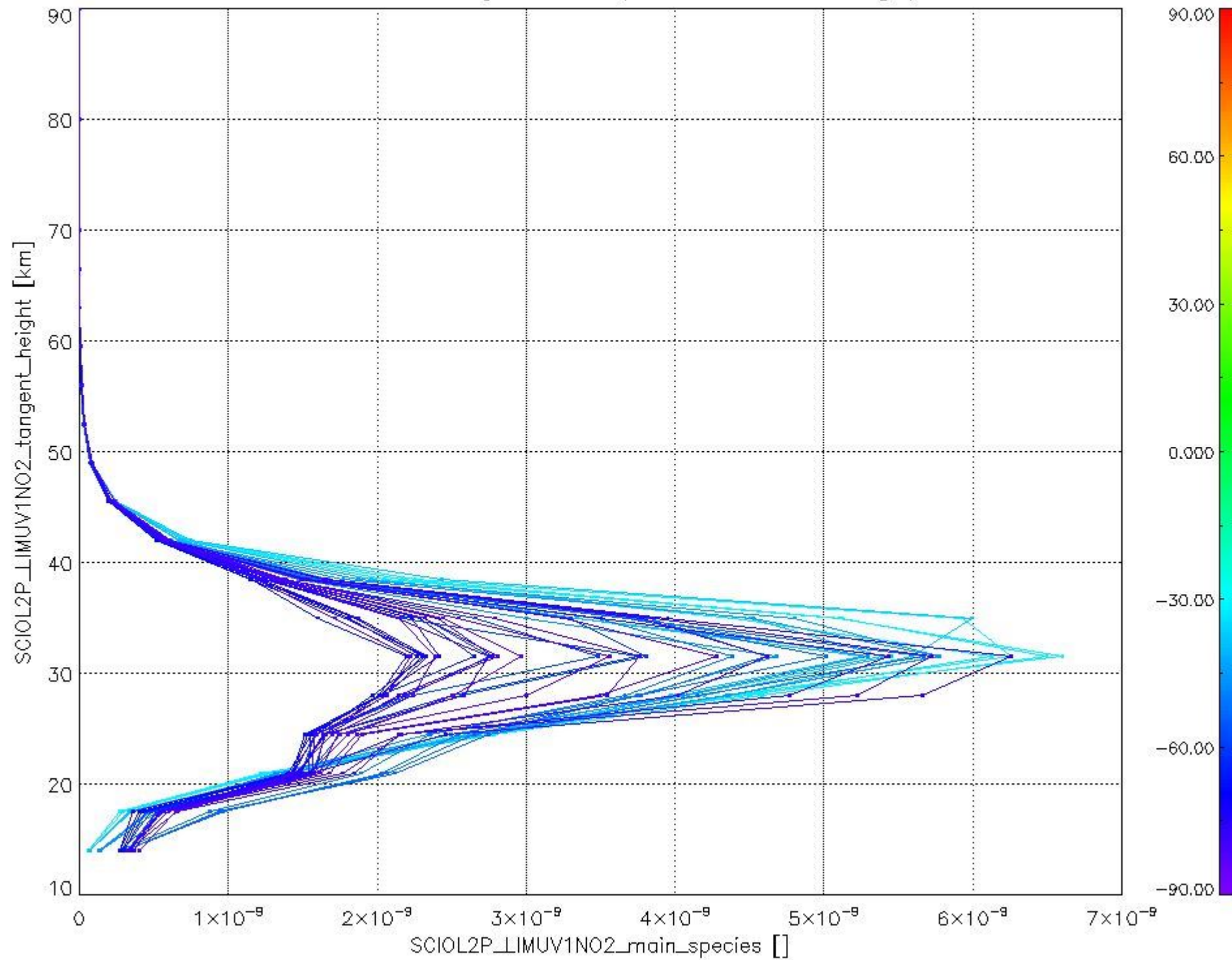
The following data items are currently included into this section:

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.



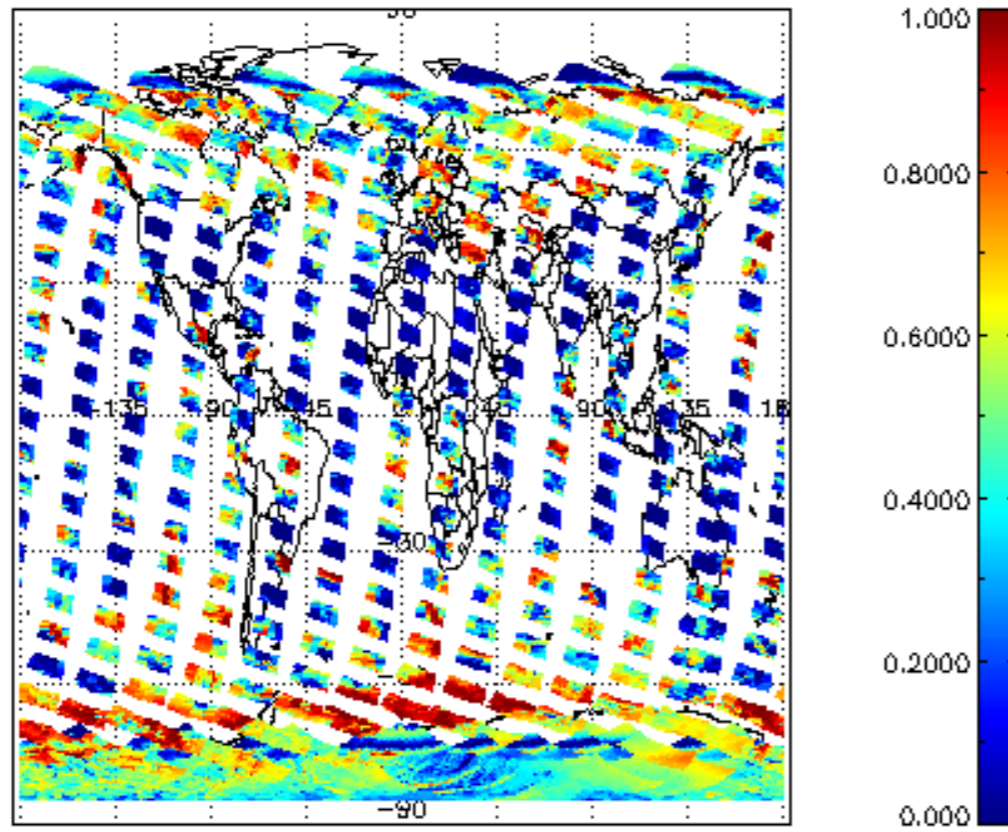
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



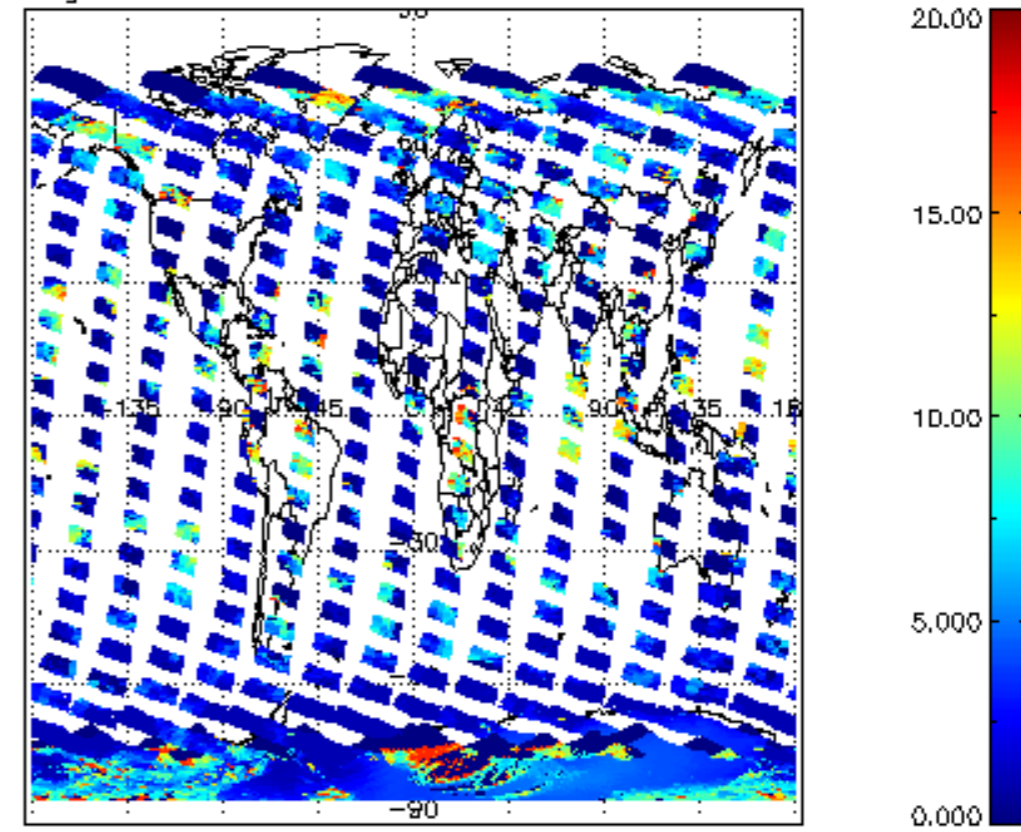
2.3 ADF monitoring

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

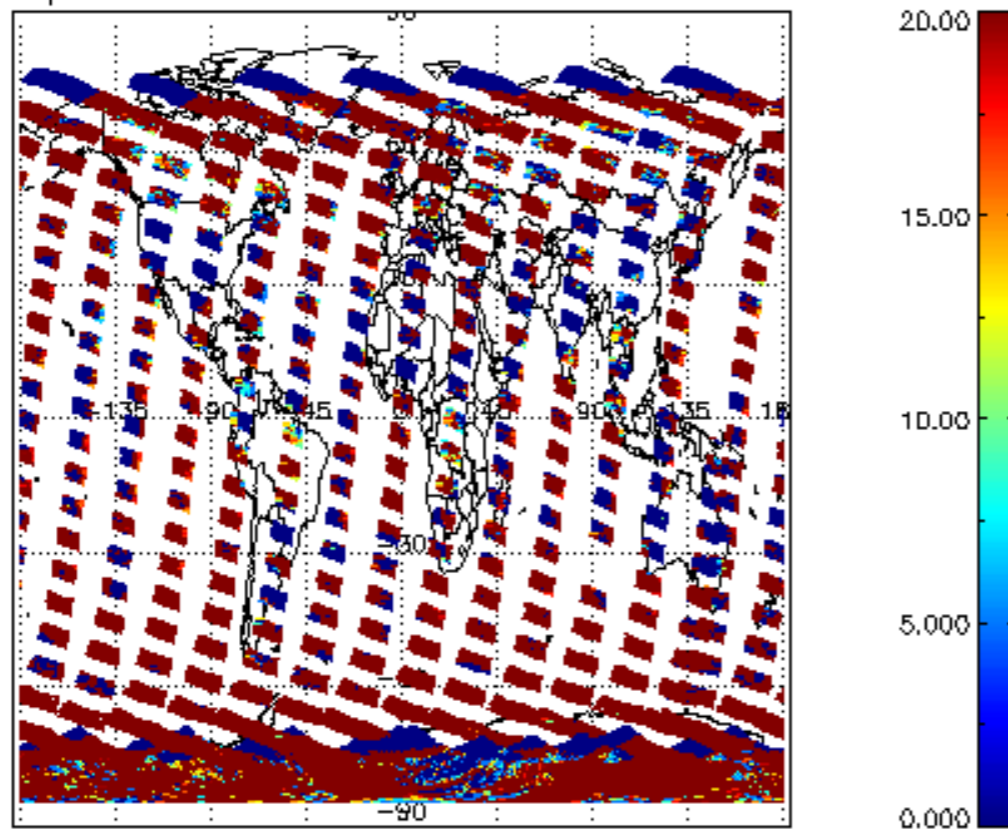
cLfrac for 04NOV2009 00:00:00 to 05NOV2009 00:00:00



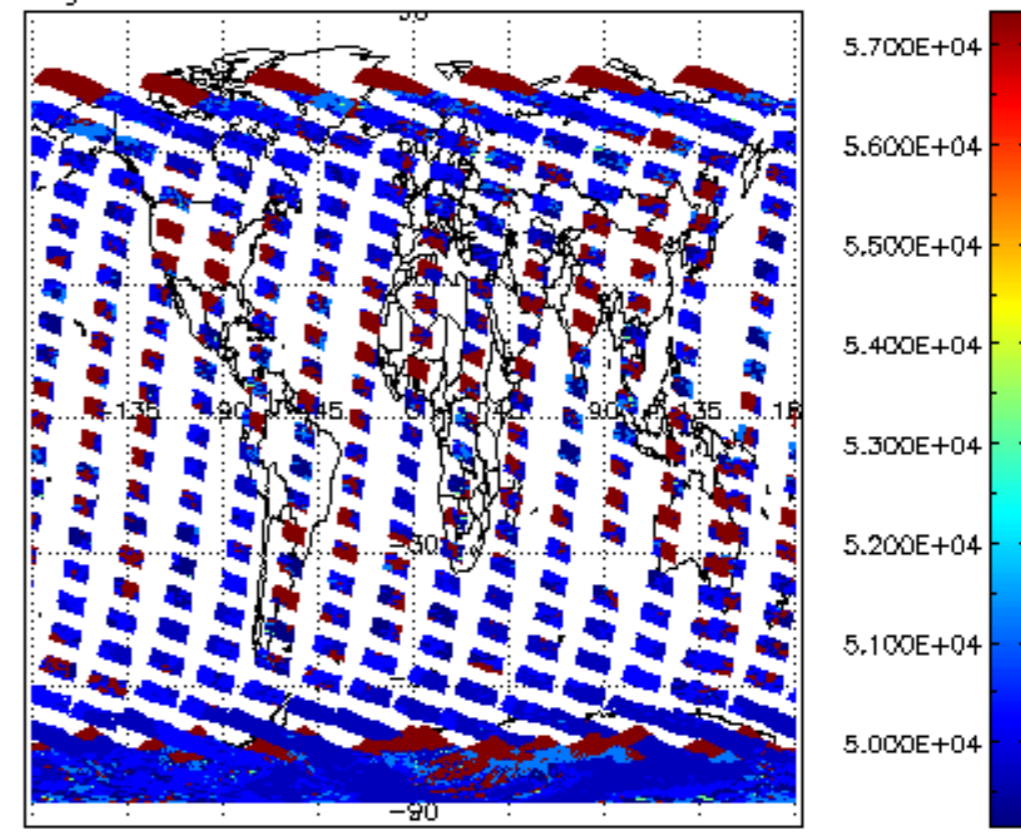
cL_top_height for 04NOV2009 00:00:00 to 05NOV2009 00:00:00

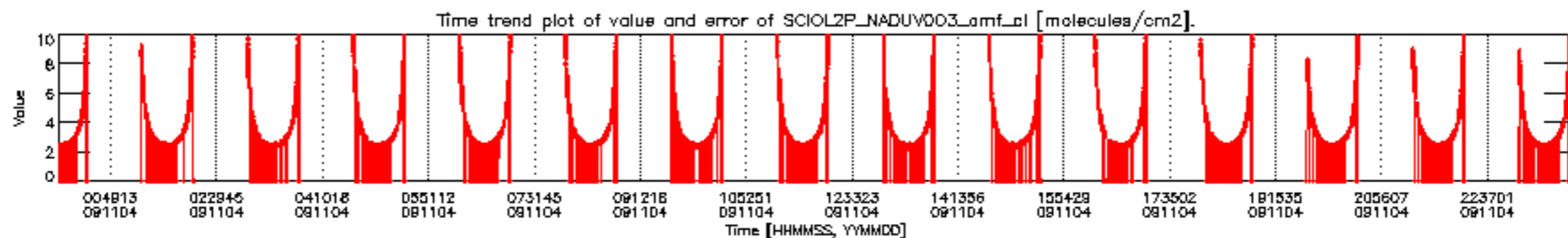
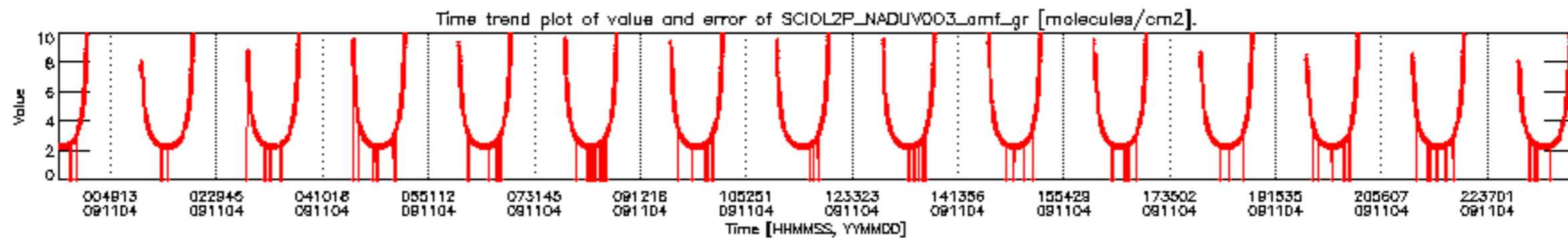
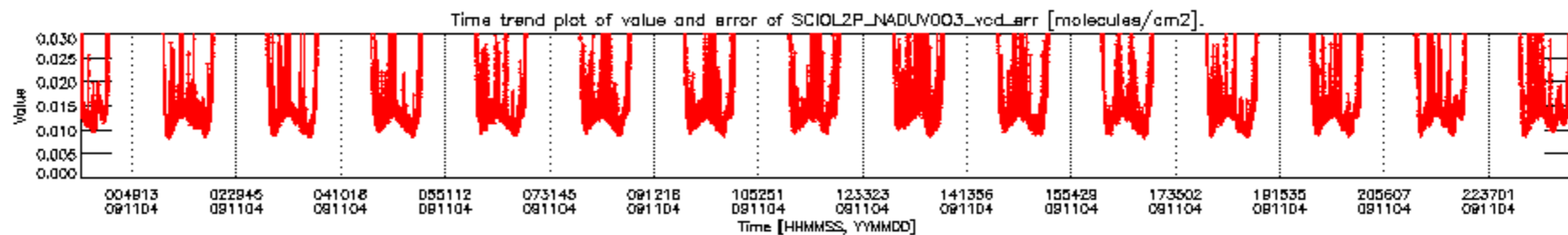
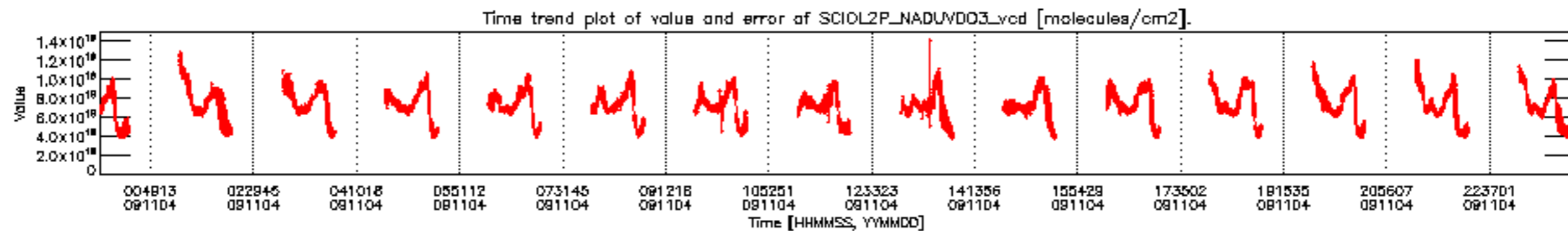


cL_opt_depth for 04NOV2009 00:00:00 to 05NOV2009 00:00:00

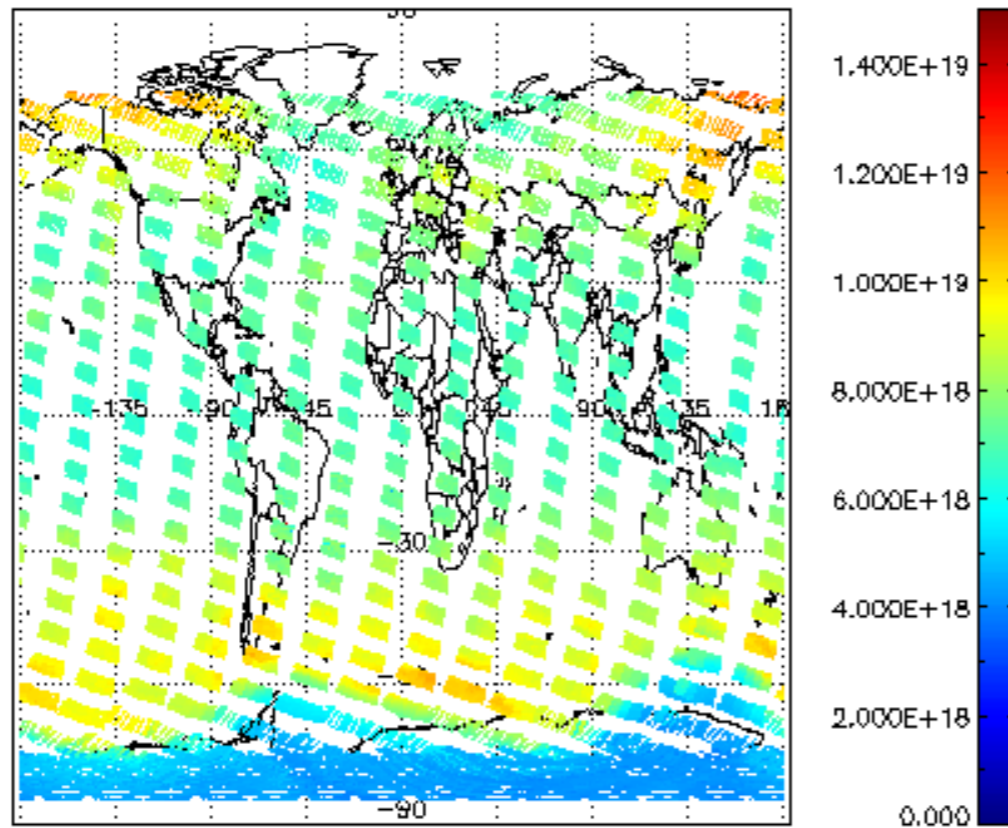


cloud_flags for 04NOV2009 00:00:00 to 05NOV2009 00:00:00

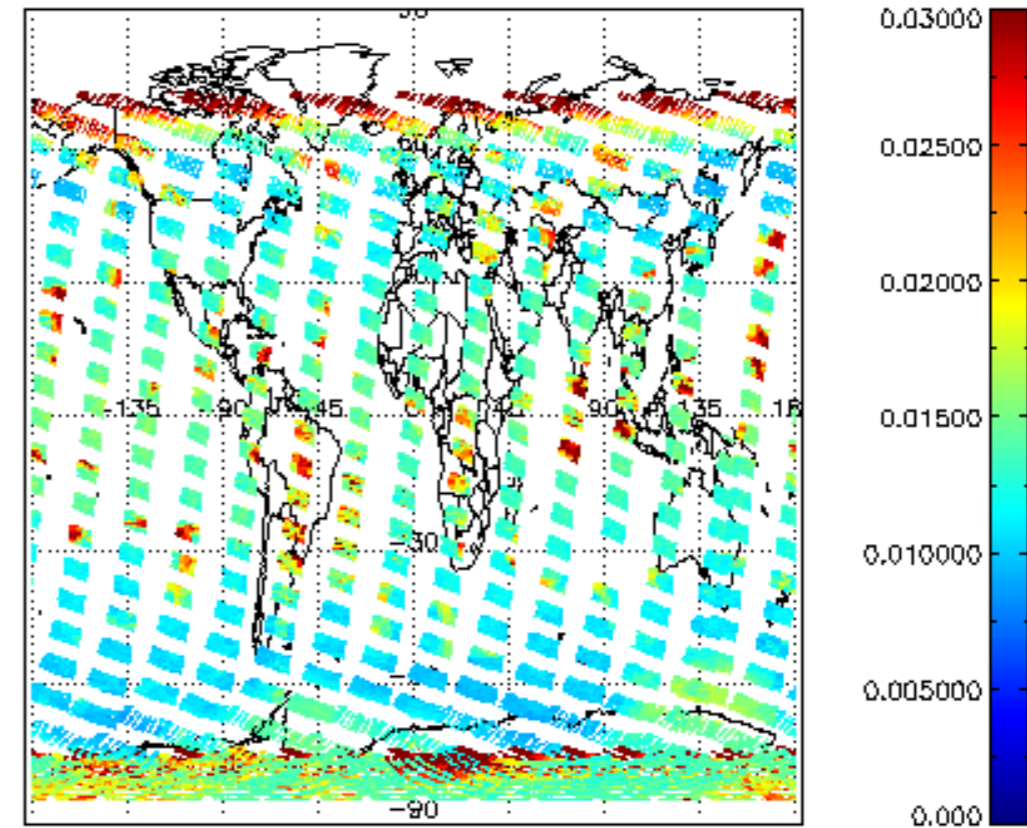




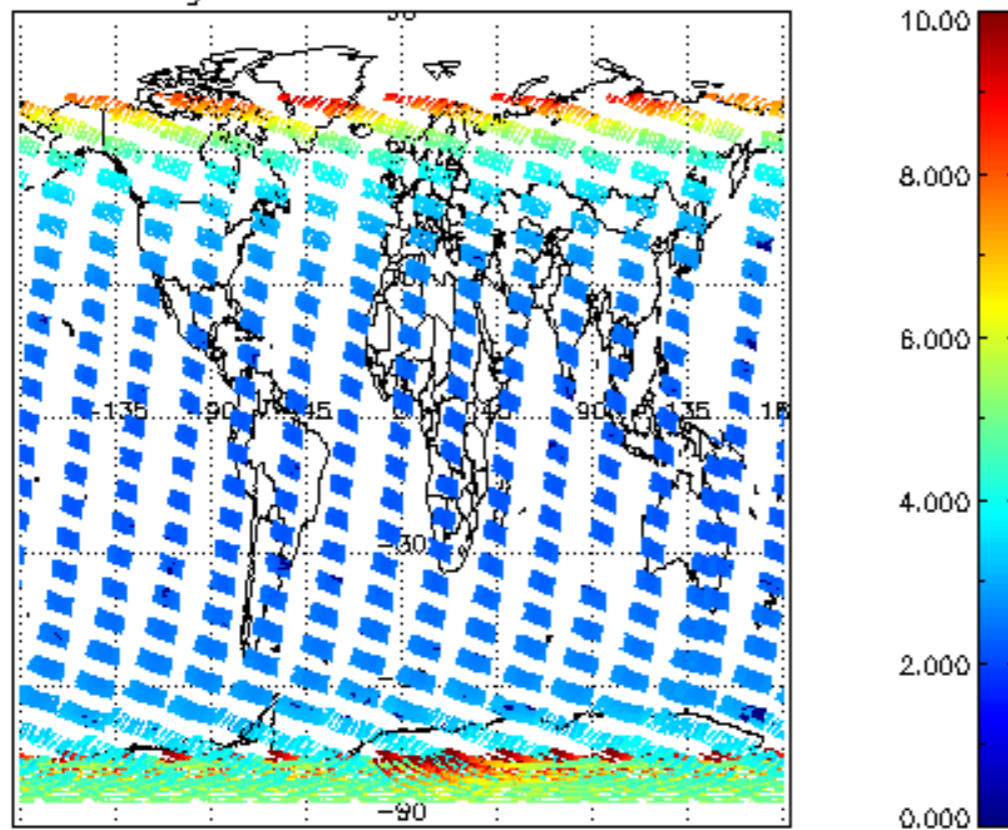
SCIOL2P_NADUV003_vcd for 04NOV2009 00:00:00 to 05NOV2009 00:00:00



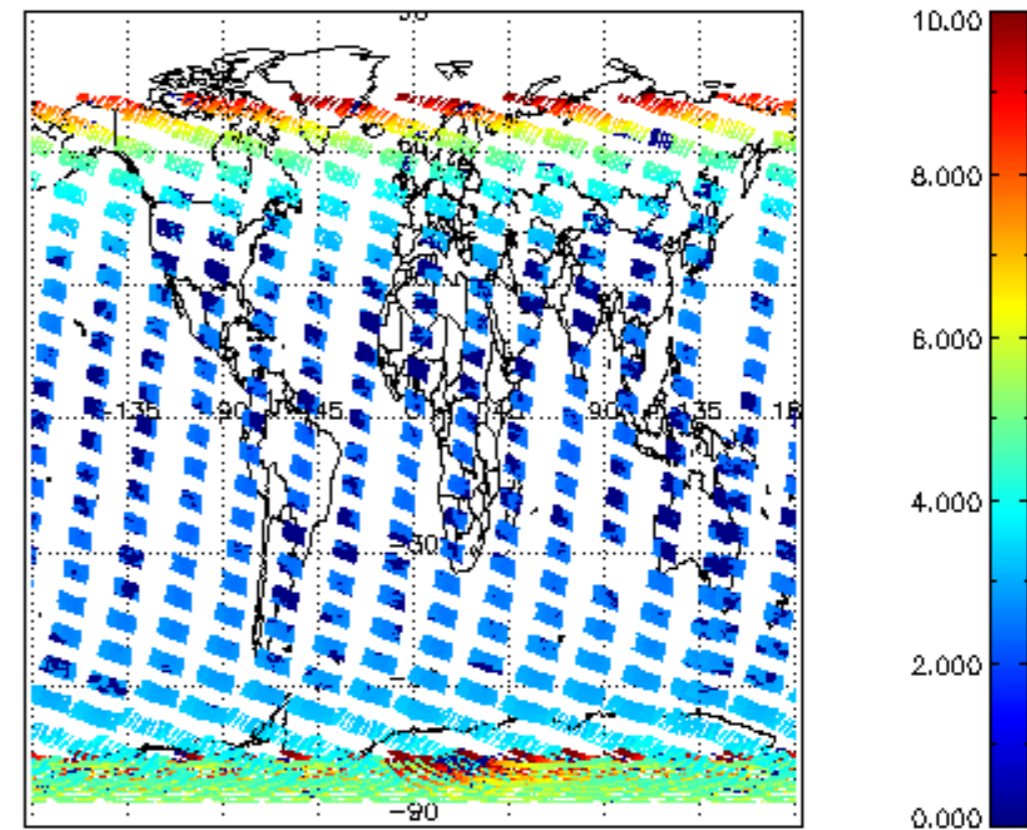
SCIOL2P_NADUV003_vcd_err for 04NOV2009 00:00:00 to 05NOV2009 00:00:00

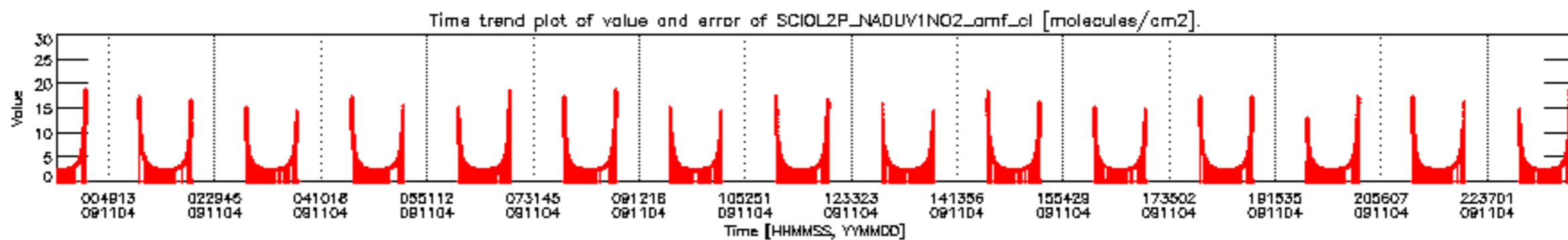
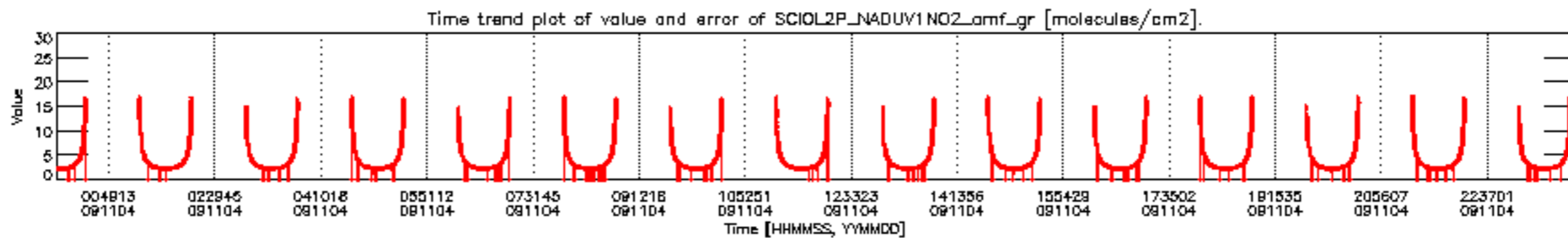
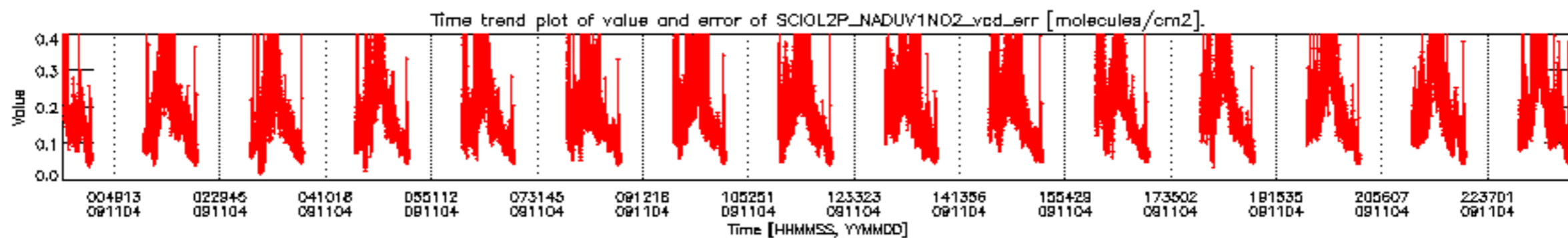
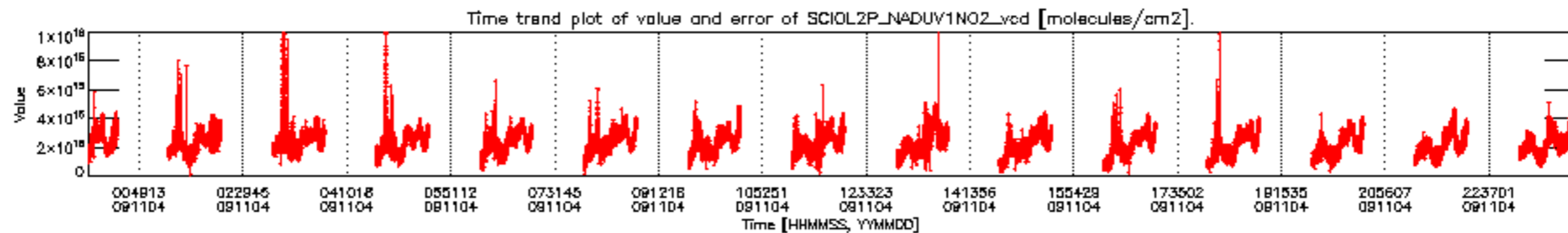


SCIOL2P_NADUV003_amf_gr for 04NOV2009 00:00:00 to 05NOV2009 00:00:00

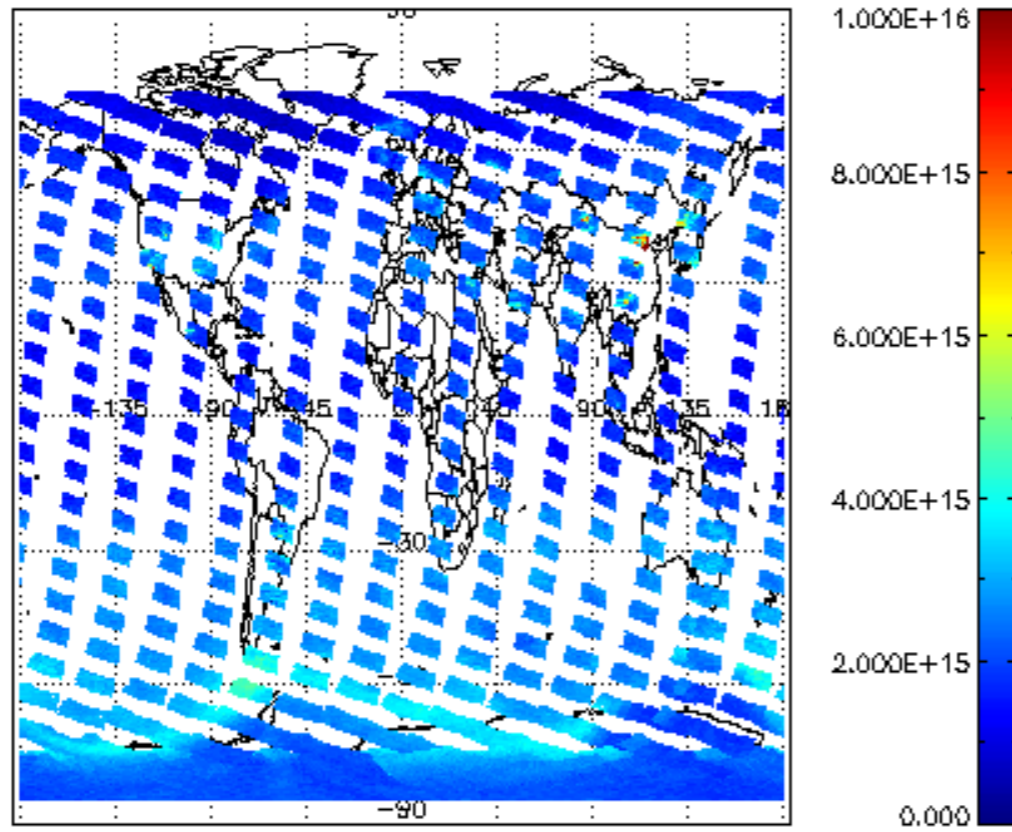


SCIOL2P_NADUV003_amf_cl for 04NOV2009 00:00:00 to 05NOV2009 00:00:00

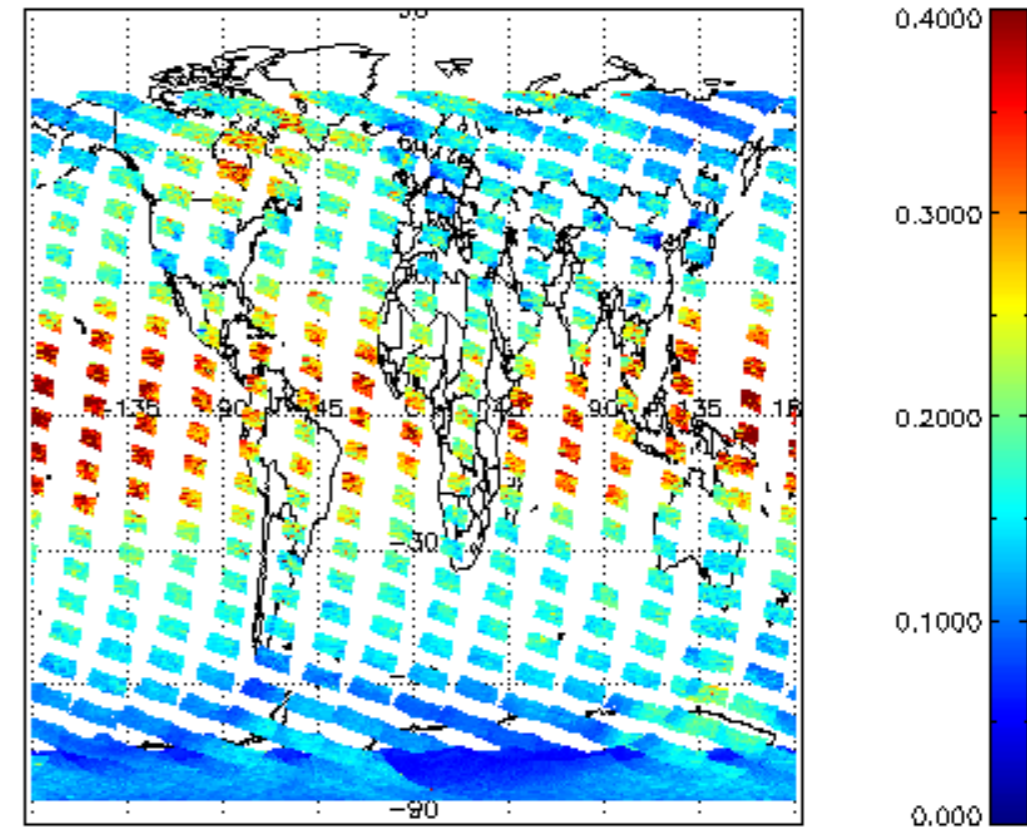




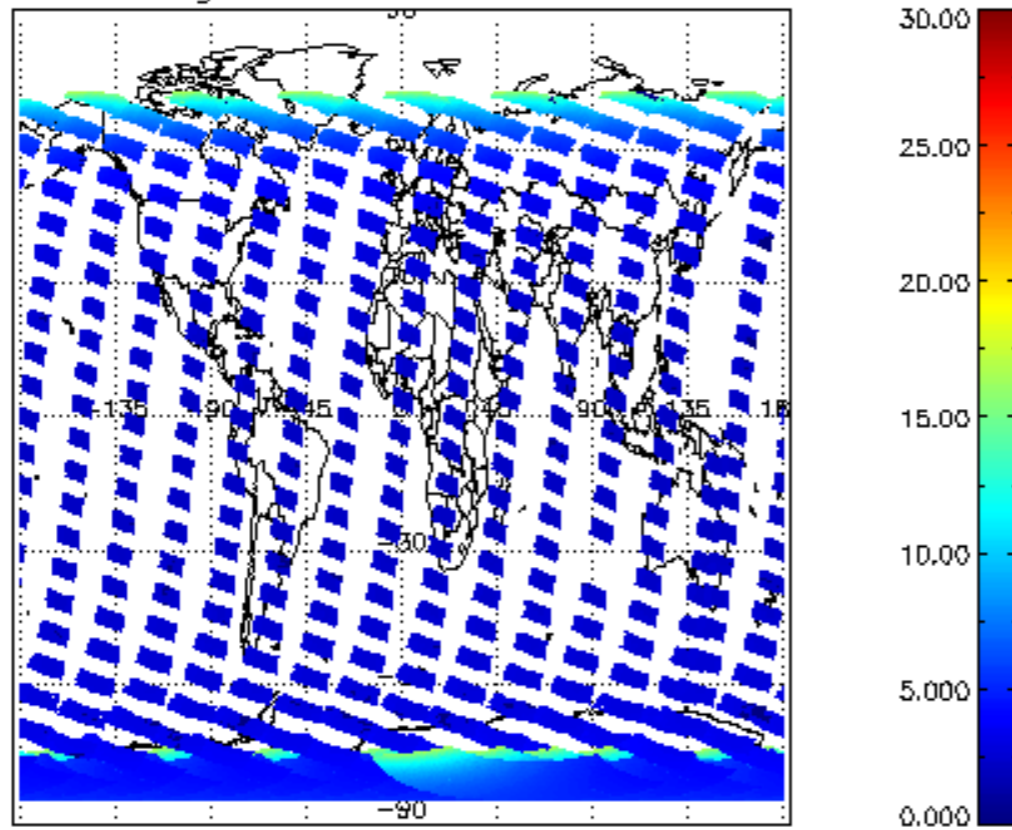
SCIOL2P_NADUV1NO2_vcd for 04NOV2009 00:00:00 to 05NOV2009 00:00:00



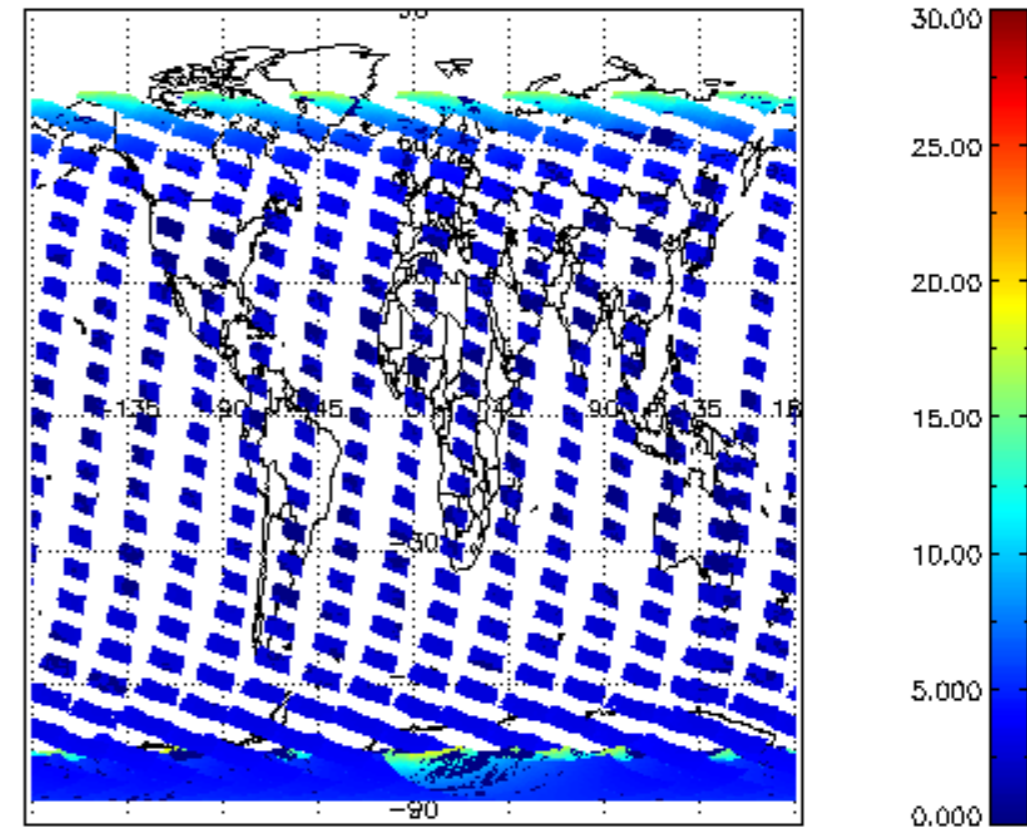
SCIOL2P_NADUV1NO2_vcd_err for 04NOV2009 00:00:00 to 05NOV2009 00:00:00



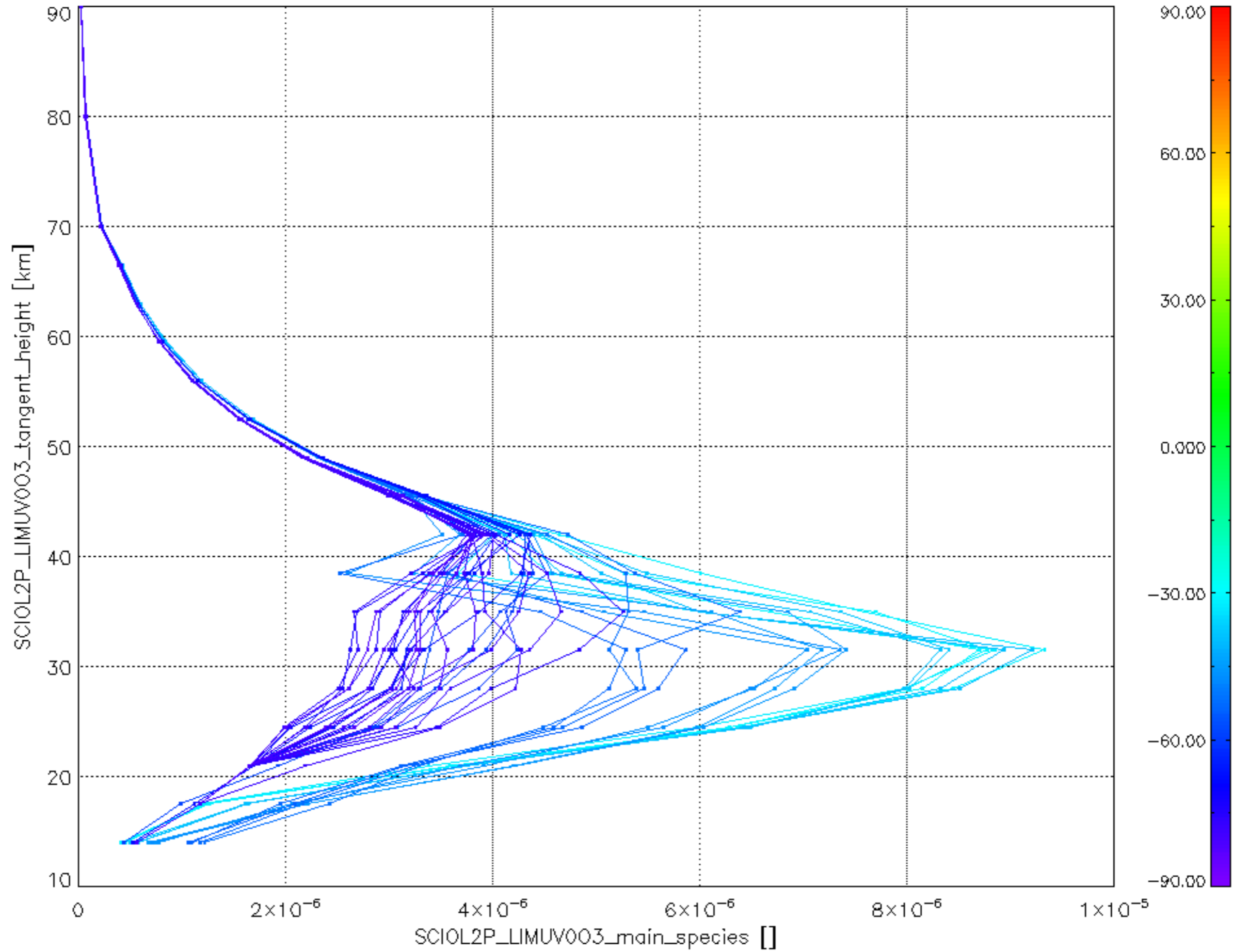
SCIOL2P_NADUV1NO2_amf_gr for 04NOV2009 00:00:00 to 05NOV2009 00:00:00



SCIOL2P_NADUV1NO2_amf_cl for 04NOV2009 00:00:00 to 05NOV2009 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).

