

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	27NOV2008 06:02:59
Data source version	SCIA-OL/3.01-R
Processing scope for products	09NOV2008 00:00:00 to 10NOV2008 00:00:00
Start time of first product within scope	08NOV2008 23:47:05
Stop time of last product within scope	10NOV2008 00:10:58
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__2PRDPA20081108_234705_000033252073_00373_34996_3864.N1	08NOV2008 23:47:05	09NOV2008 00:42:30	0	GOOD
1	SCI_OL__2PRDPA20081109_012741_000033812073_00375_34998_3867.N1	09NOV2008 01:27:41	09NOV2008 02:24:03	0	GOOD
2	SCI_OL__2PRDPA20081109_030817_000033252073_00375_34998_3868.N1	09NOV2008 03:08:17	09NOV2008 04:03:43	0	GOOD
3	SCI_OL__2PRDPA20081109_044854_000033812073_00377_35000_3871.N1	09NOV2008 04:48:54	09NOV2008 05:45:15	0	GOOD
4	SCI_OL__2PRDPA20081109_062930_000033252073_00378_35001_3873.N1	09NOV2008 06:29:30	09NOV2008 07:24:56	0	GOOD
5	SCI_OL__2PRDPA20081109_081006_000033812073_00379_35002_3875.N1	09NOV2008 08:10:06	09NOV2008 09:06:28	0	GOOD
6	SCI_OL__2PRDPA20081109_095043_000033252073_00380_35003_3877.N1	09NOV2008 09:50:43	09NOV2008 10:46:08	0	GOOD
7	SCI_OL__2PRDPA20081109_113119_000033812073_00381_35004_3878.N1	09NOV2008 11:31:19	09NOV2008 12:27:40	0	GOOD
8	SCI_OL__2PRDPA20081109_131155_000033252073_00382_35005_3880.N1	09NOV2008 13:11:55	09NOV2008 14:07:21	0	GOOD
9	SCI_OL__2PRDPA20081109_145231_000033812073_00383_35006_3882.N1	09NOV2008 14:52:31	09NOV2008 15:48:53	0	GOOD
10	SCI_OL__2PRDPA20081109_163308_000033252073_00384_35007_3885.N1	09NOV2008 16:33:08	09NOV2008 17:28:33	0	GOOD
11	SCI_OL__2PRDPA20081109_181405_000033082073_00385_35008_3886.N1	09NOV2008 18:14:05	09NOV2008 19:09:13	0	GOOD
12	SCI_OL__2PRDPA20081109_195441_000033252073_00386_35009_3889.N1	09NOV2008 19:54:41	09NOV2008 20:50:06	0	GOOD
13	SCI_OL__2PRDPA20081109_213457_000033812073_00387_35010_3890.N1	09NOV2008 21:34:57	09NOV2008 22:31:18	0	GOOD
14	SCI_OL__2PRDPA20081109_231533_000033252073_00388_35011_3892.N1	09NOV2008 23:15:33	10NOV2008 00:10:58	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: 150540

Total number of cloud data DSRs with good quality flag (=0): 150540 (100.0 %)

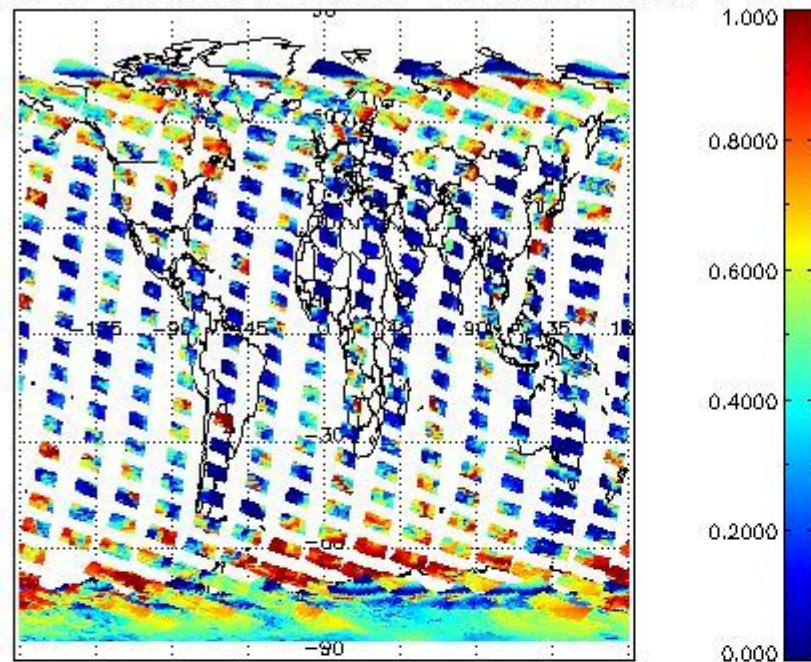
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	150540	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	150540	0.17185	0.12500	0.12500	0.25000	0.060509	s
CL_FRAC	150540	0.39449	0.39185	0.0000	1.0000	0.28018	-
CL_FRAC_ERR	150540	0.0000	0.0000	0.0000	0.0000	0.0000	rel. fraction
PMD_READ	150540	5.4991	4.0000	4.0000	8.0000	1.9363	
PMD_READ_CL[0]	150540	0.22005	0.0000	0.0000	8.0000	1.0666	-
PMD_READ_CL[1]	150540	0.97597	0.0000	0.0000	8.0000	2.1971	-
CL_TOP_HEIGHT	129546	3.9845	3.0108	0.0000	17.000	3.7399	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	129546	54.424	45.457	0.0000	101.00	40.427	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	150540	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	150540	11001010	11000100	11000000	11100000	3241.3	flags
AERO_ABSO_IND	150540	3.0483	3.3755	-0.90992	16.659	2.1261	
AERO_IND_DIAG	150540	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	150540	01011001	00000000	00000000	11000000	24525.	flags

Time and geolocation plots:

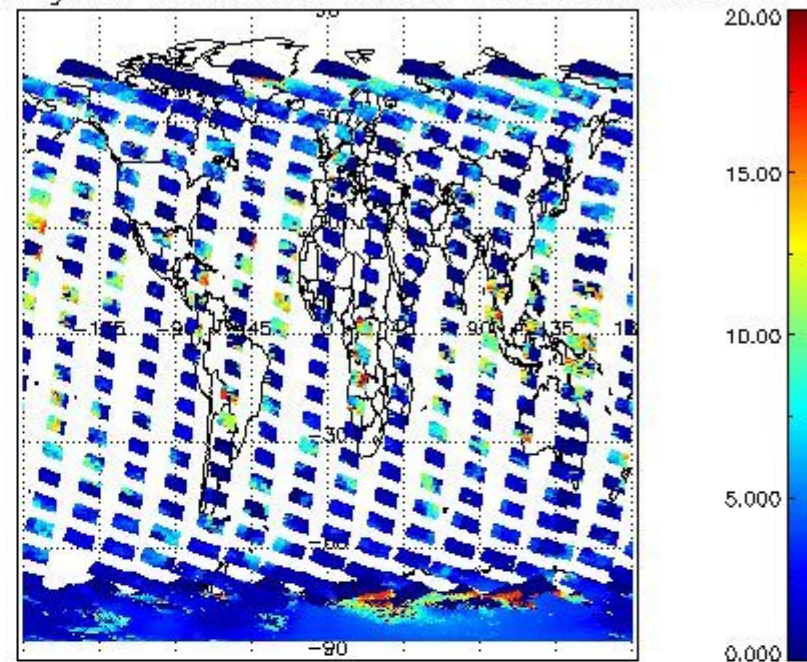
Plots are available for the following parameters:

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

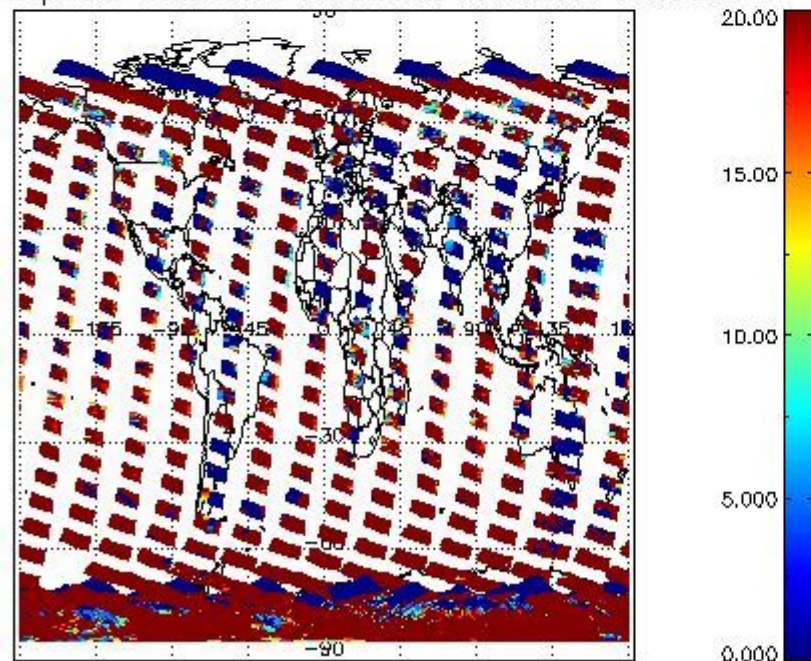
cLfrac for 09NOV2008 00:00:00 to 10NOV2008 00:00:00



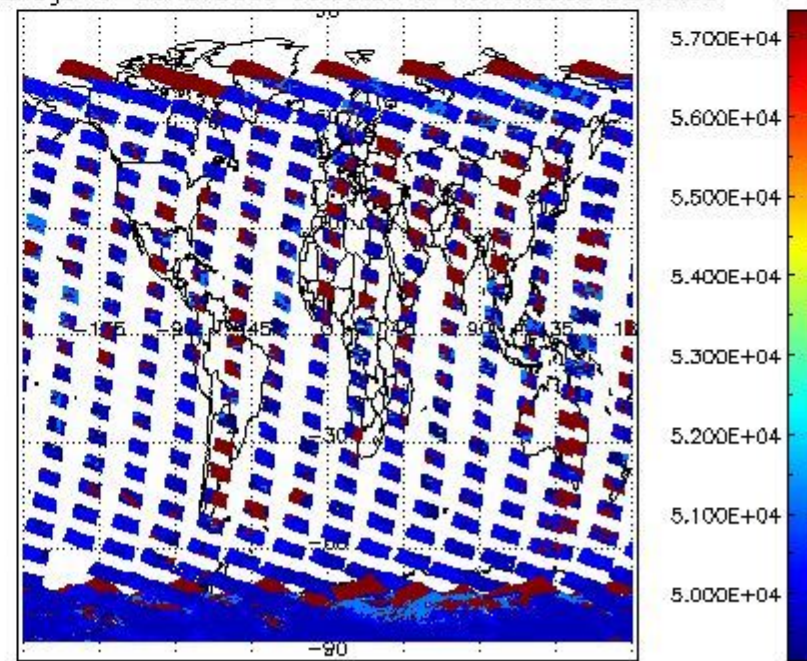
cL_top_height for 09NOV2008 00:00:00 to 10NOV2008 00:00:00



cLopt_depth for 09NOV2008 00:00:00 to 10NOV2008 00:00:00



cloud_flags for 09NOV2008 00:00:00 to 10NOV2008 00:00:00



2.2.2 Nadir

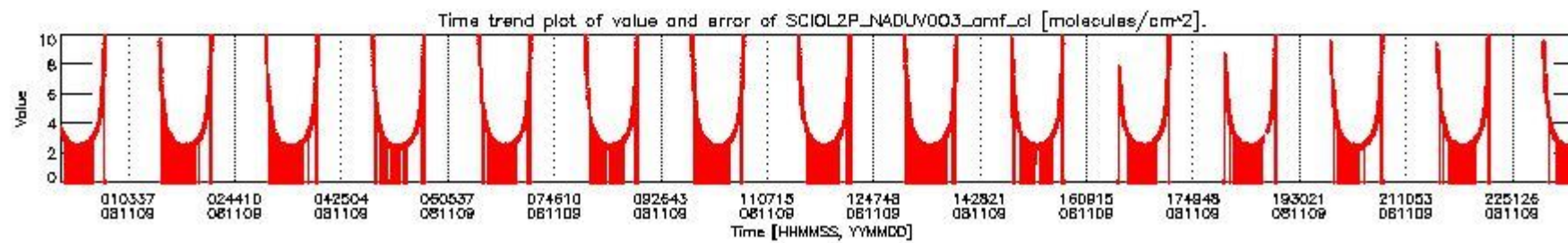
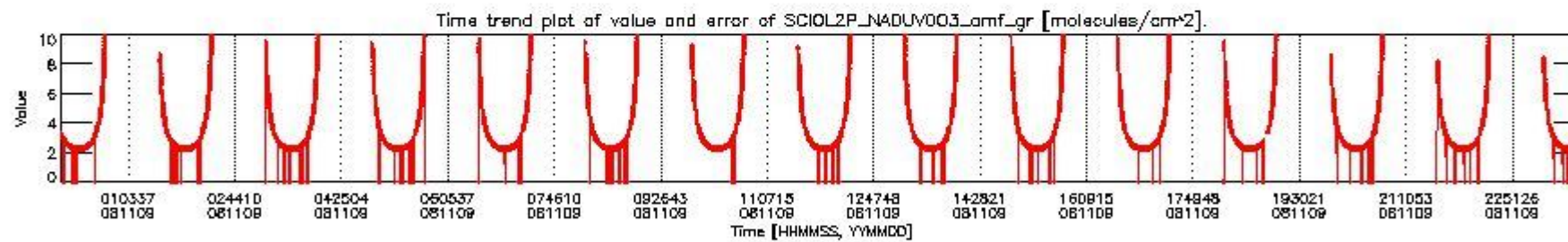
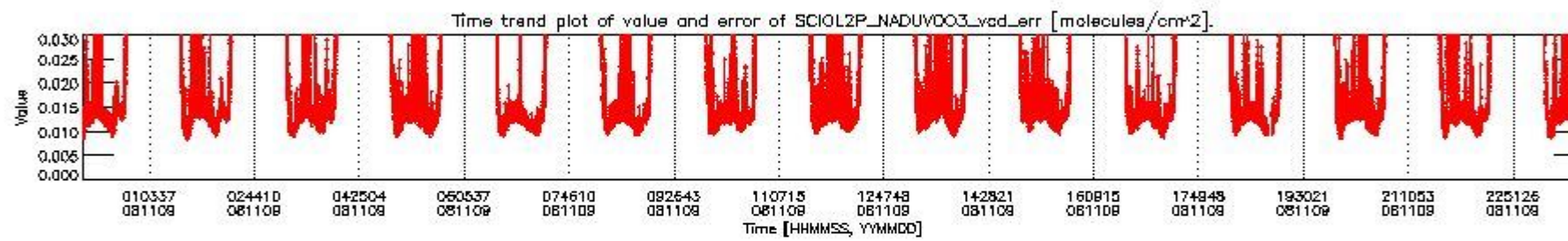
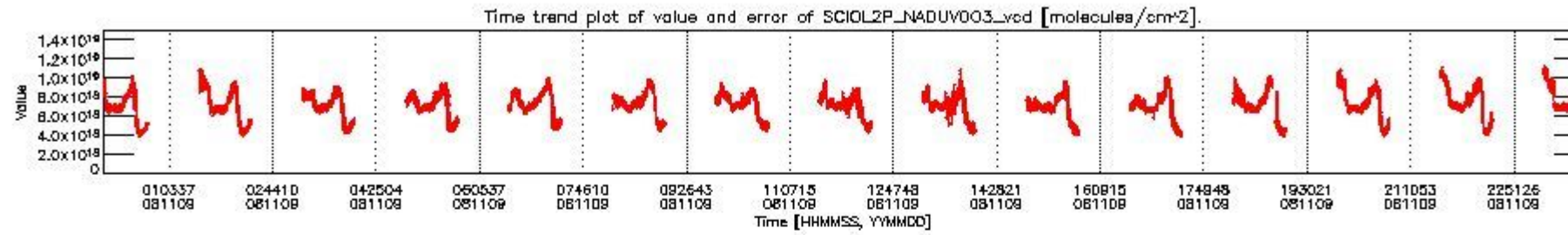
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

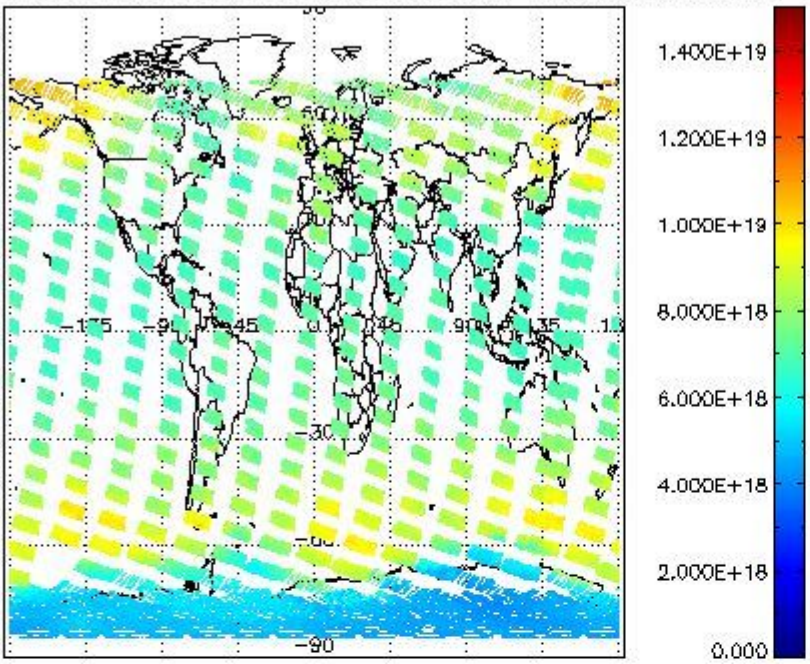
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

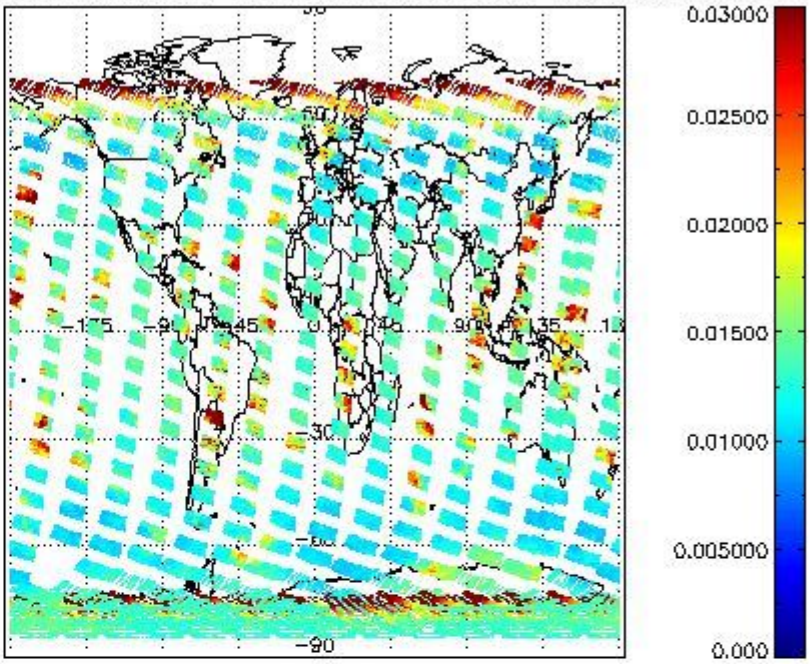
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



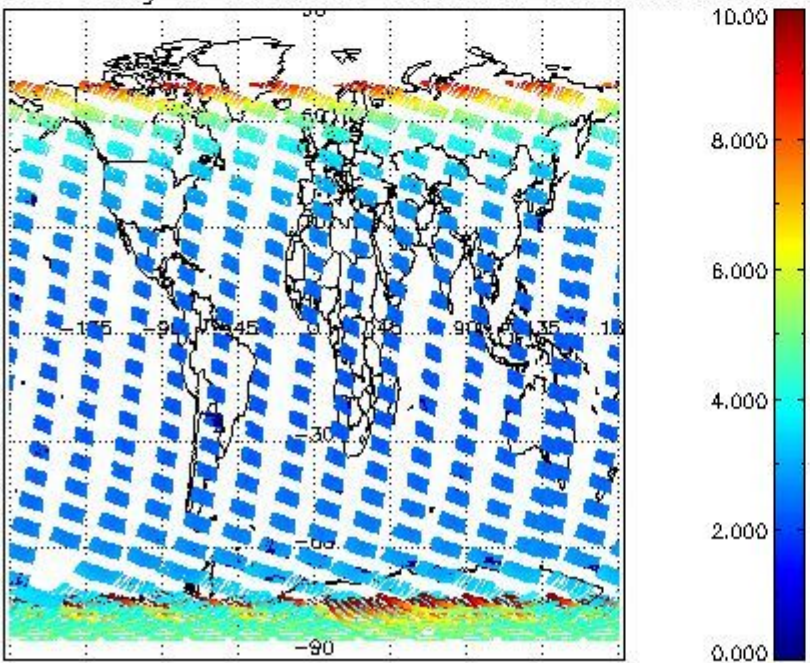
SCIOL2P_NADUV003_vcd for 09NOV2008 00:00:00 to 10NOV2008 00:00:00



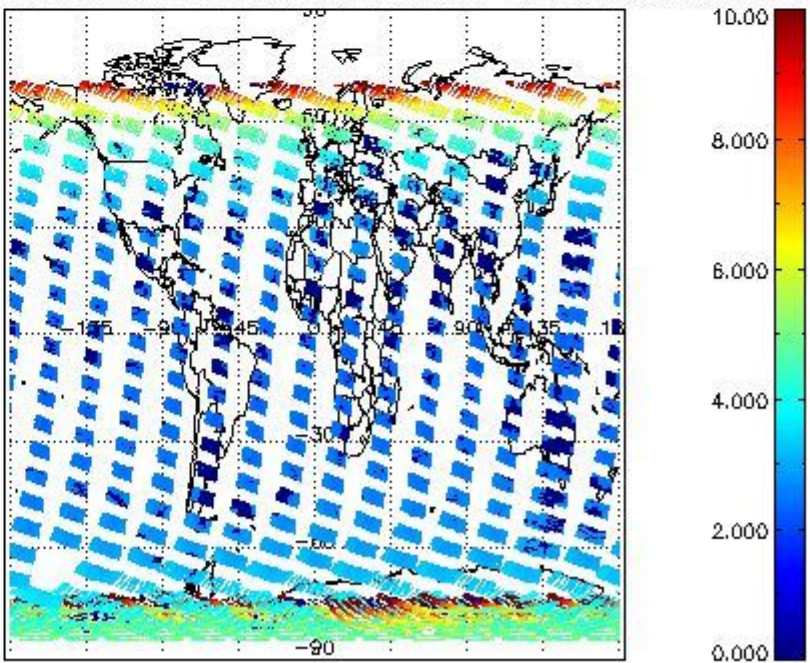
SCIOL2P_NADUV003_vcd_err for 09NOV2008 00:00:00 to 10NOV2008 00:00:00

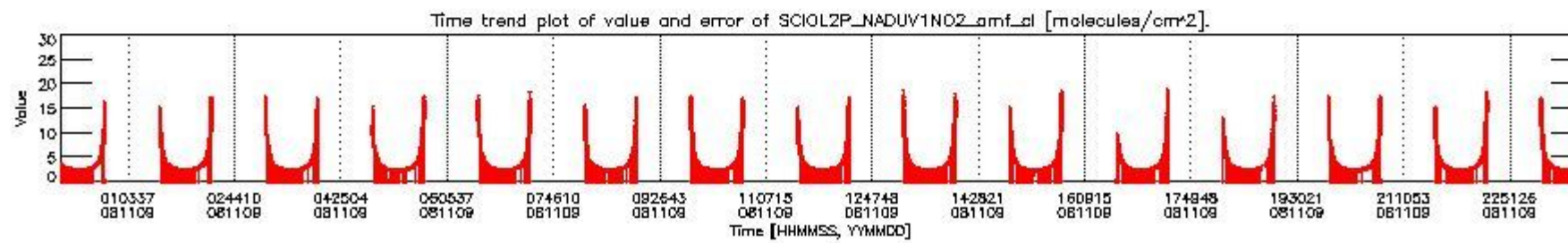
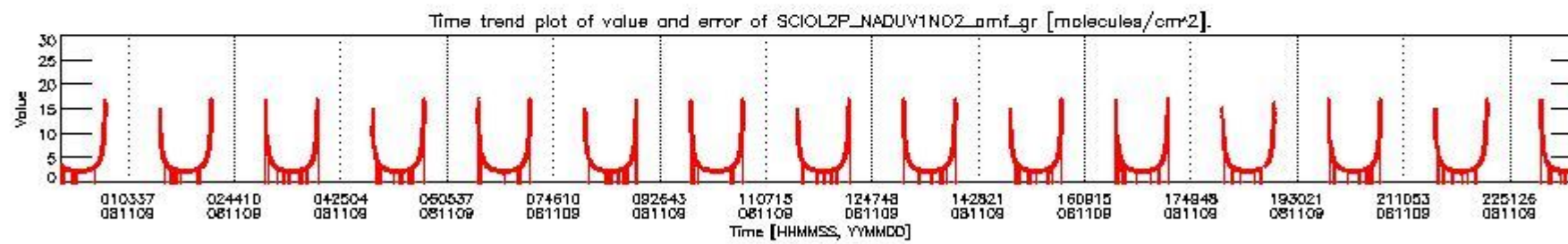
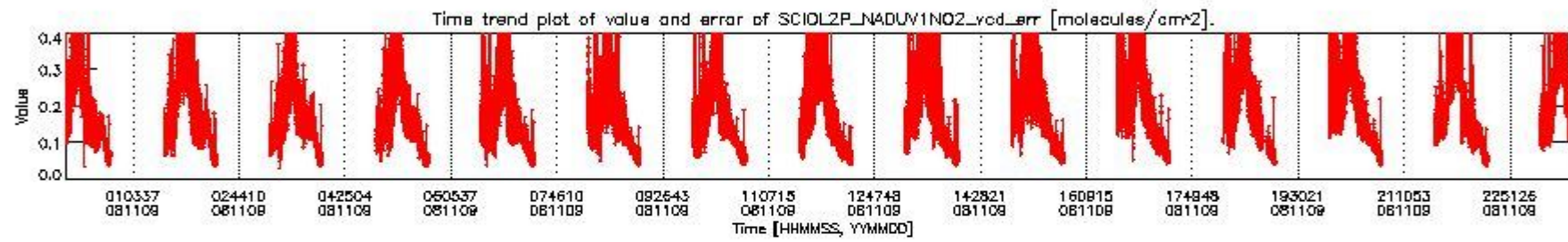
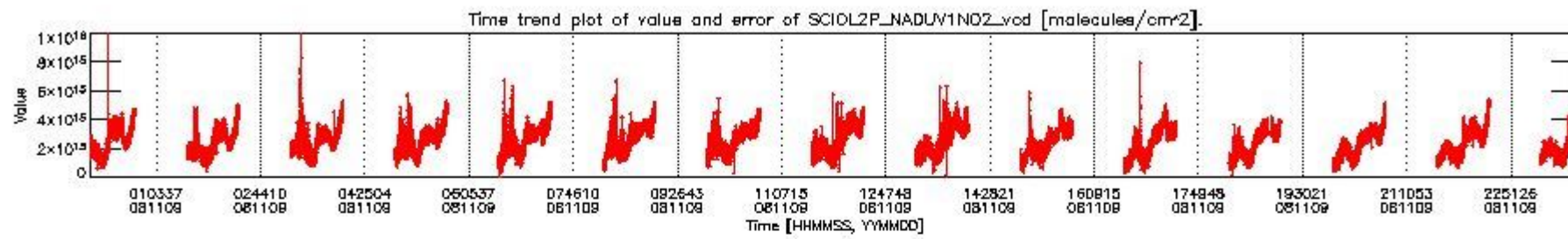


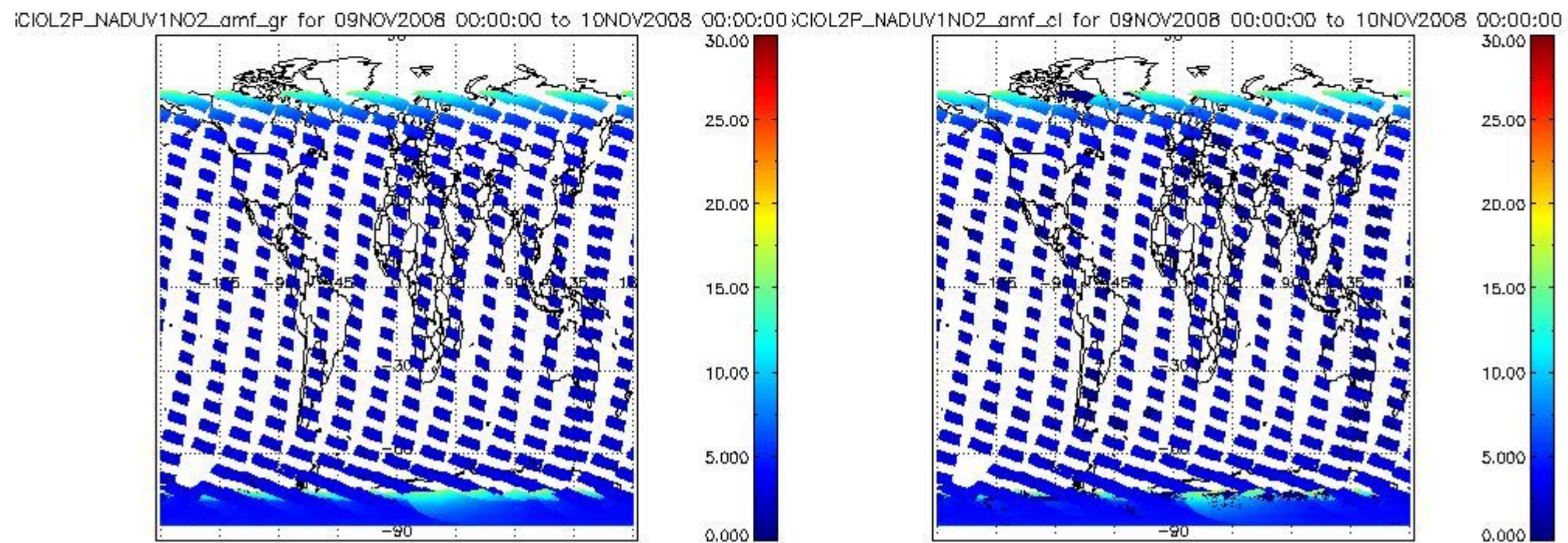
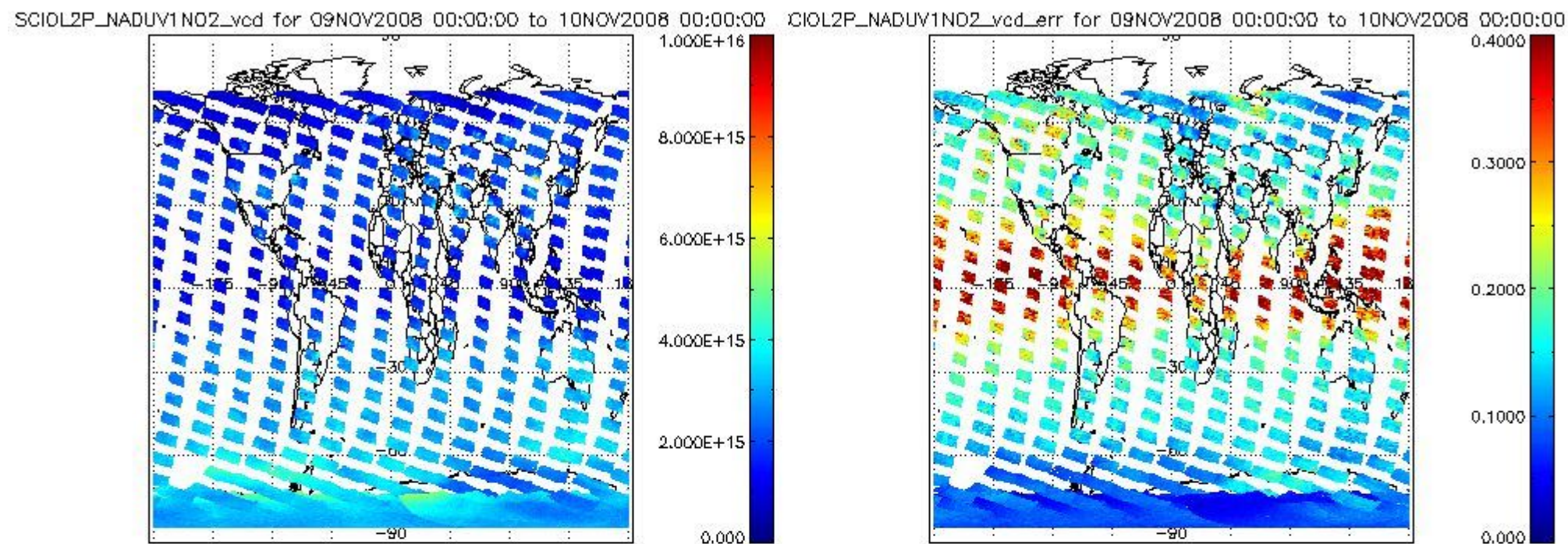
SCIOL2P_NADUV003_amf_gr for 09NOV2008 00:00:00 to 10NOV2008 00:00:00



SCIOL2P_NADUV003_amf_cl for 09NOV2008 00:00:00 to 10NOV2008 00:00:00







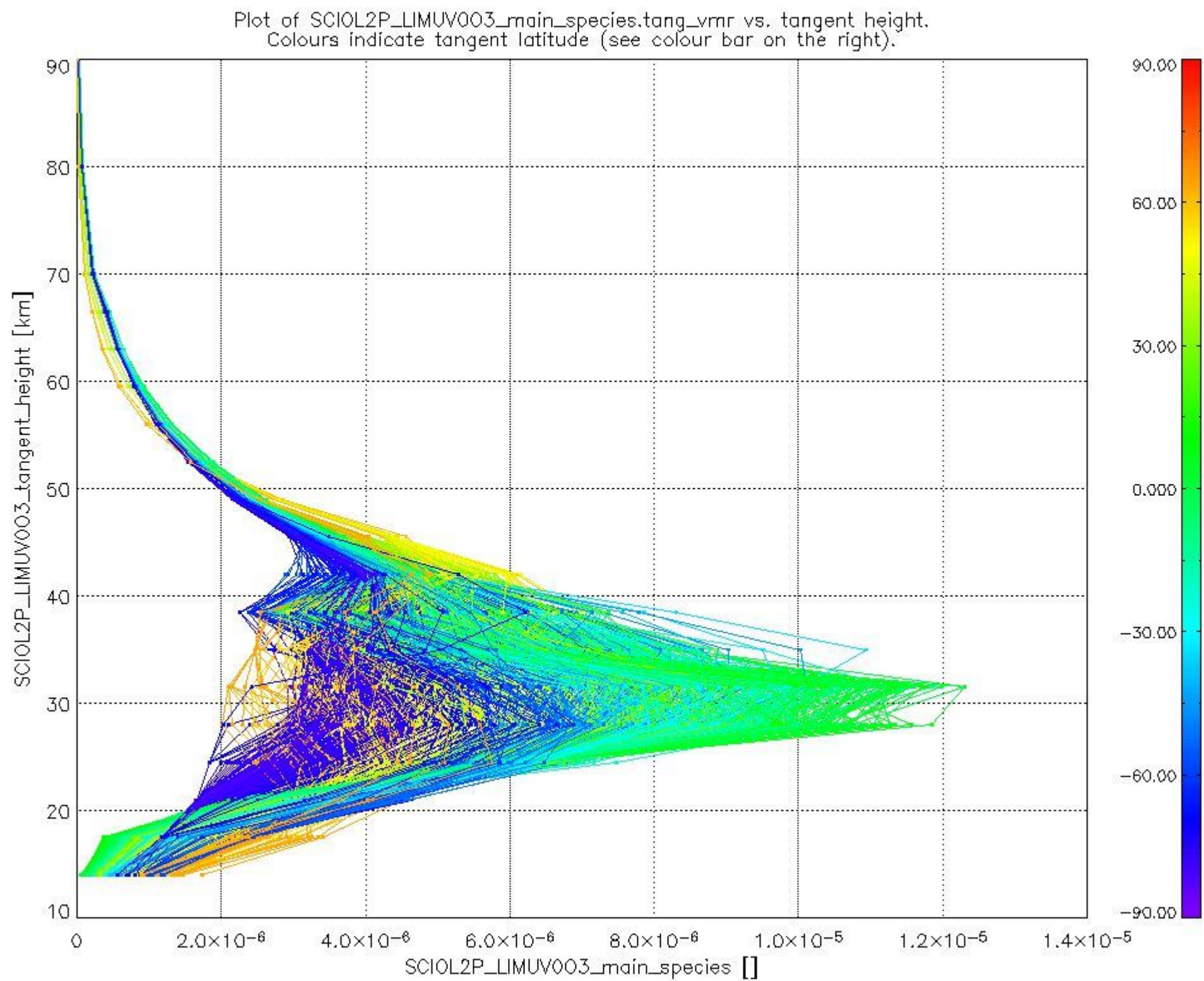
2.2.3 Limb

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

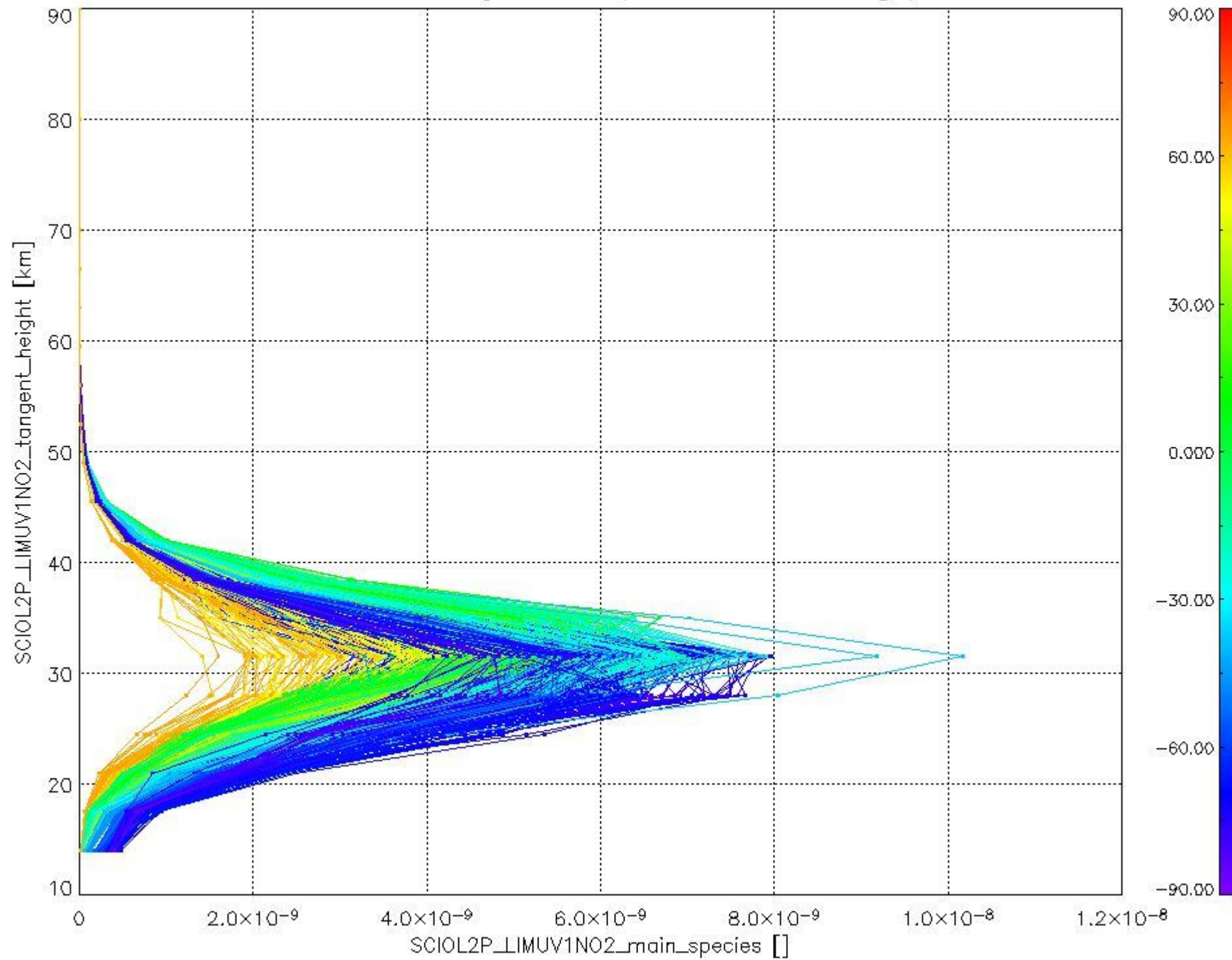
The following data items are currently included into this section:

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.



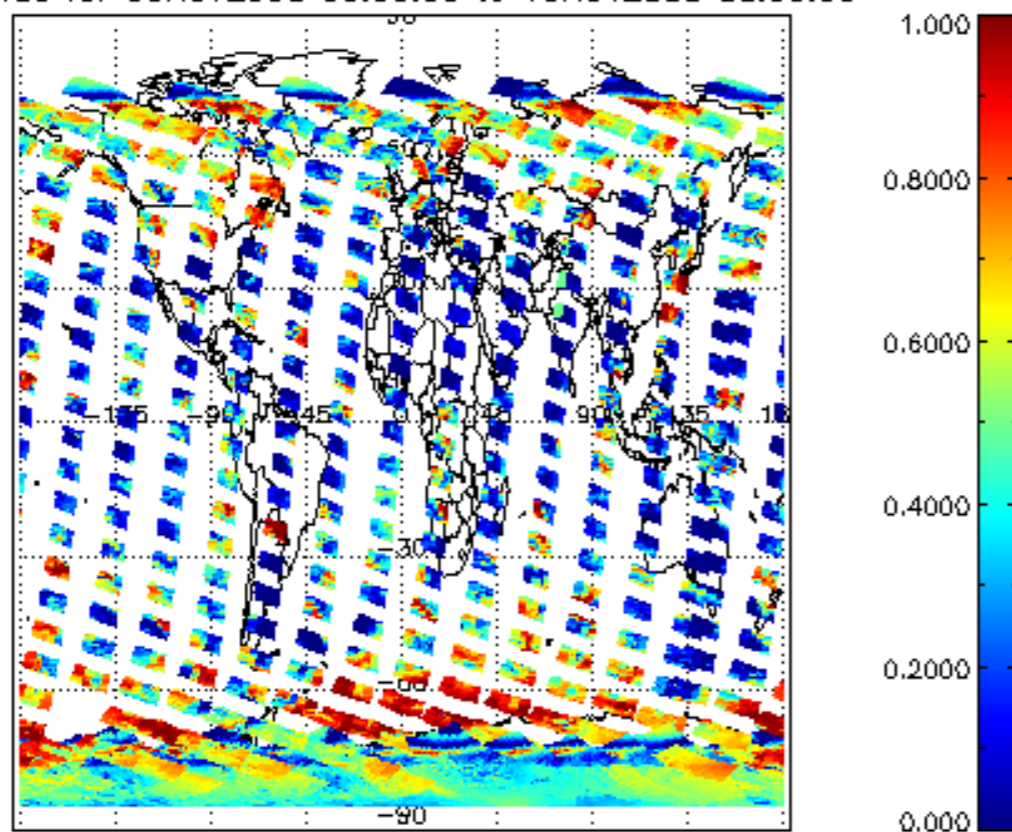
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



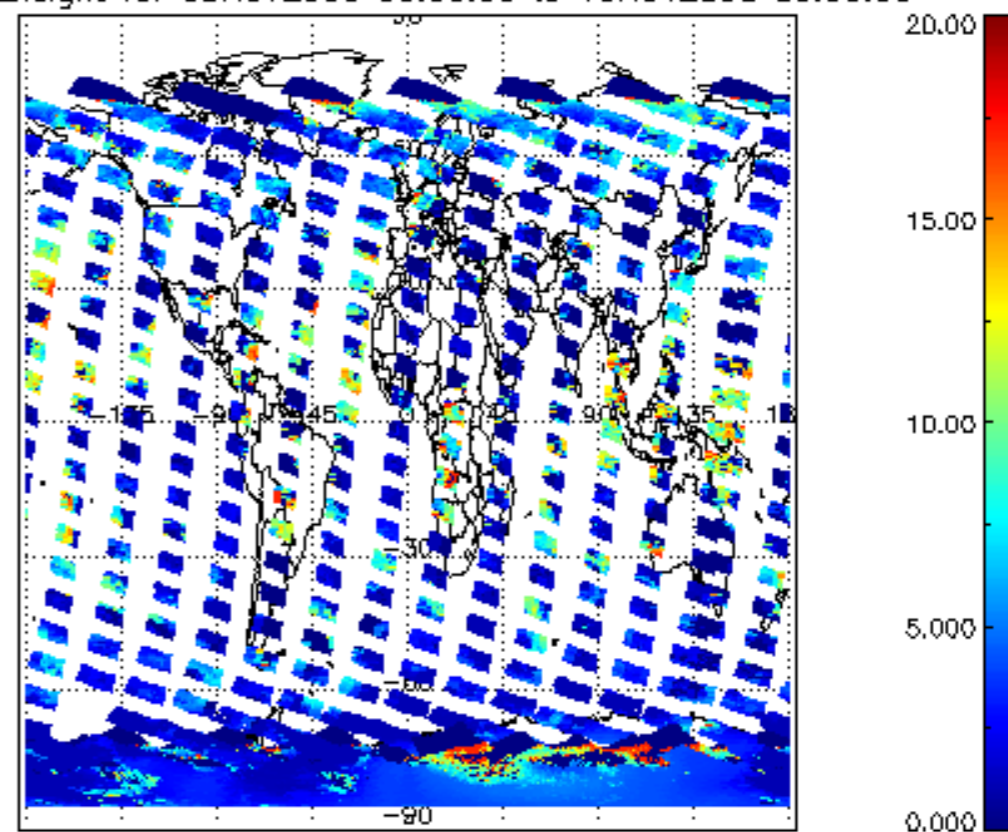
2.3 ADF monitoring

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

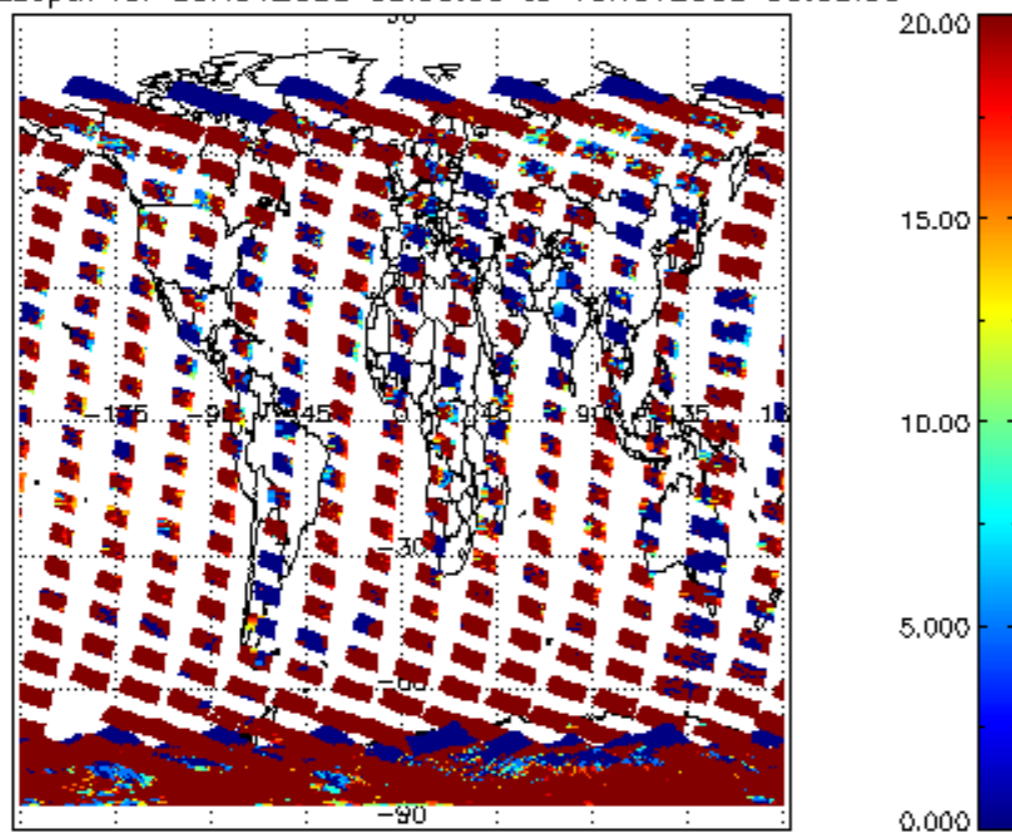
cLfrac for 09NOV2008 00:00:00 to 10NOV2008 00:00:00



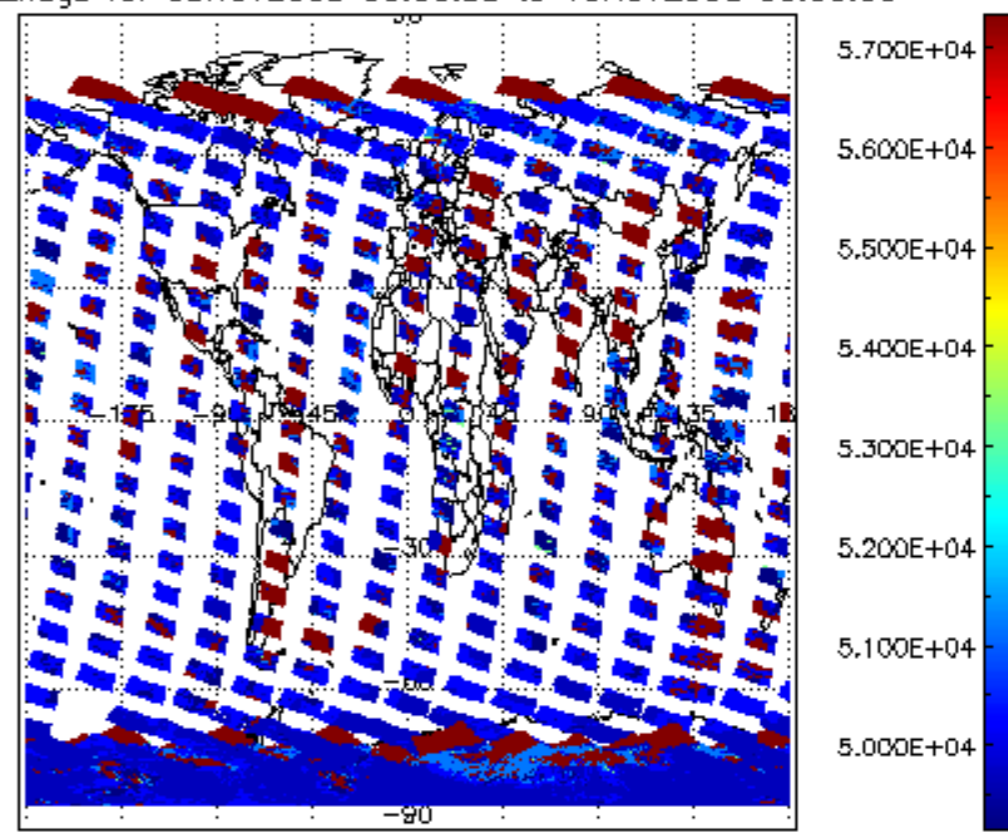
cL_top_height for 09NOV2008 00:00:00 to 10NOV2008 00:00:00

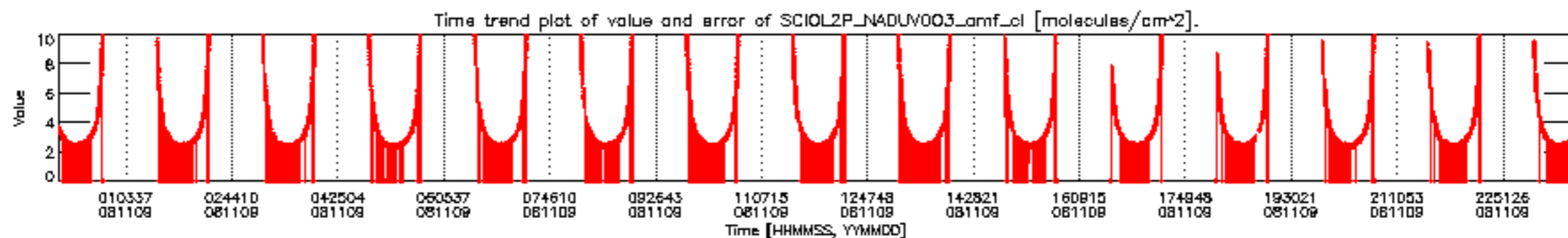
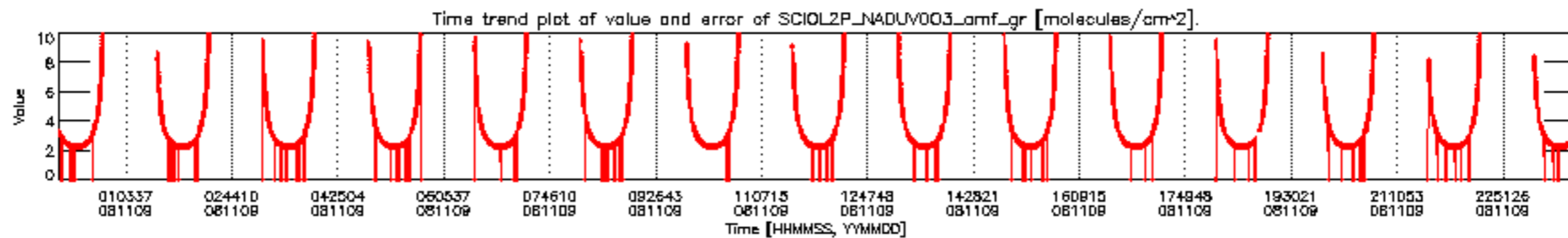
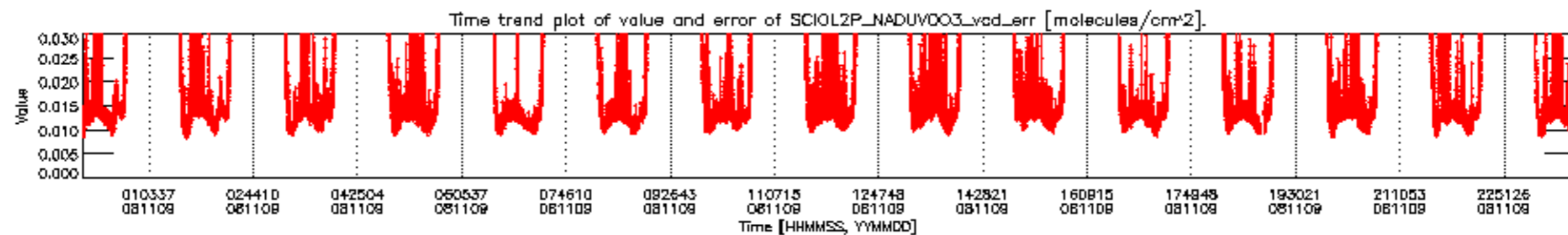
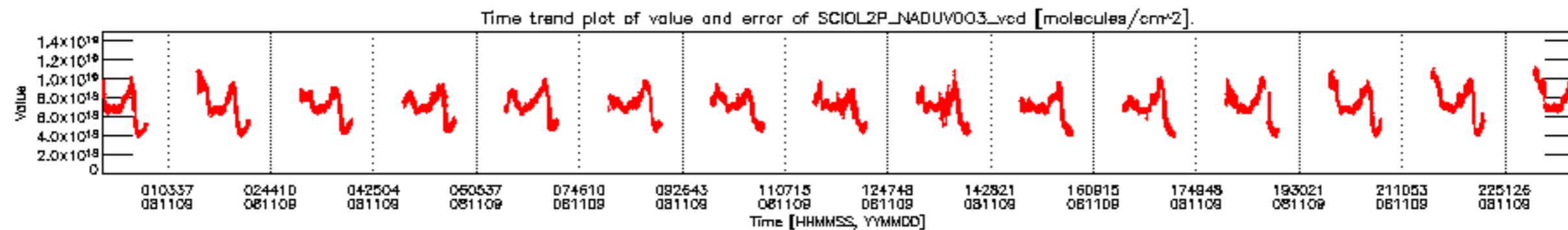


cL_opt_depth for 09NOV2008 00:00:00 to 10NOV2008 00:00:00

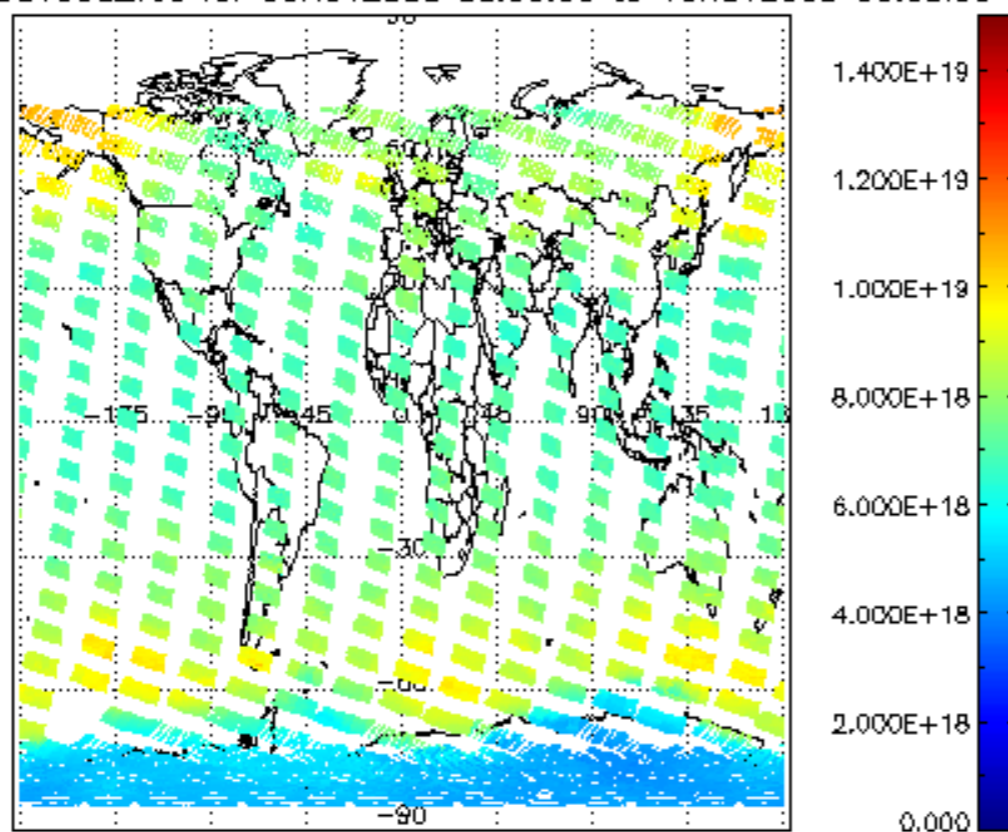


cloud_flags for 09NOV2008 00:00:00 to 10NOV2008 00:00:00

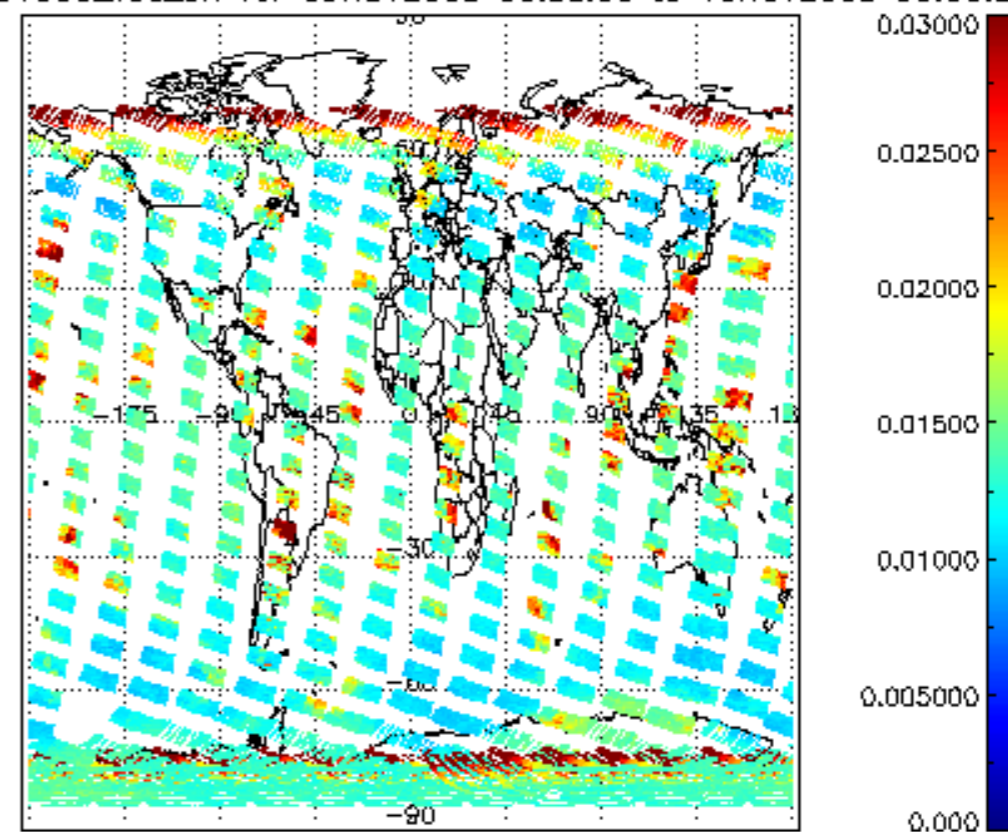




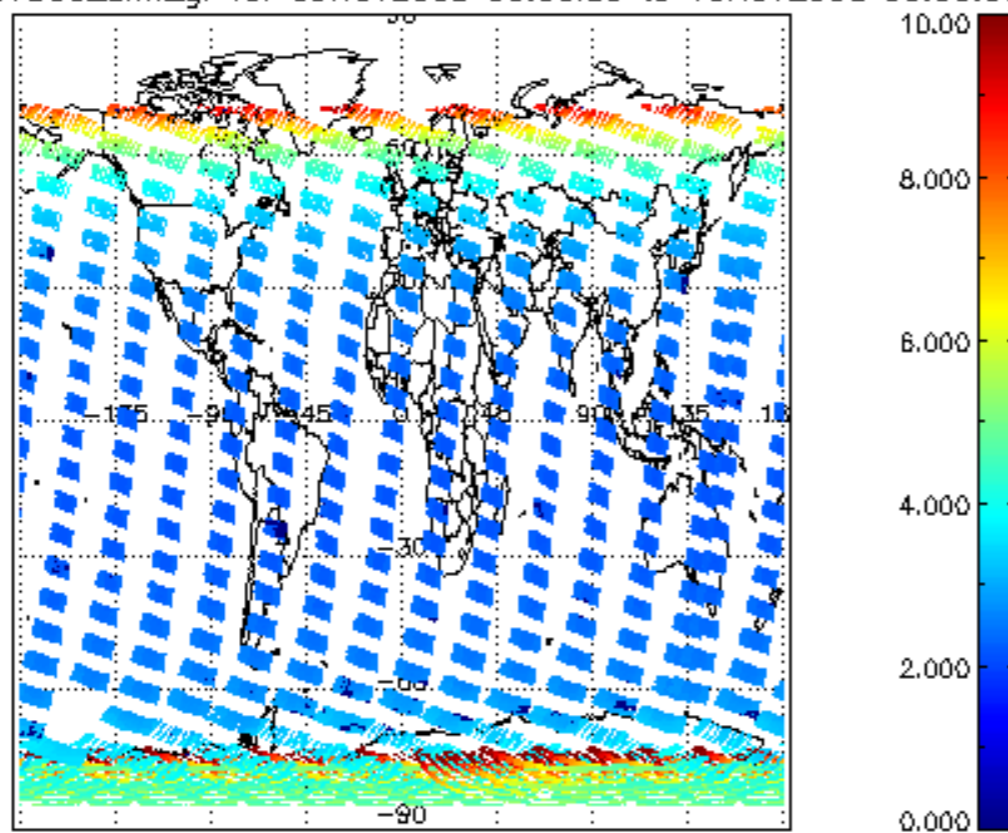
SCIOL2P_NADUV003_vcd for 09NOV2008 00:00:00 to 10NOV2008 00:00:00



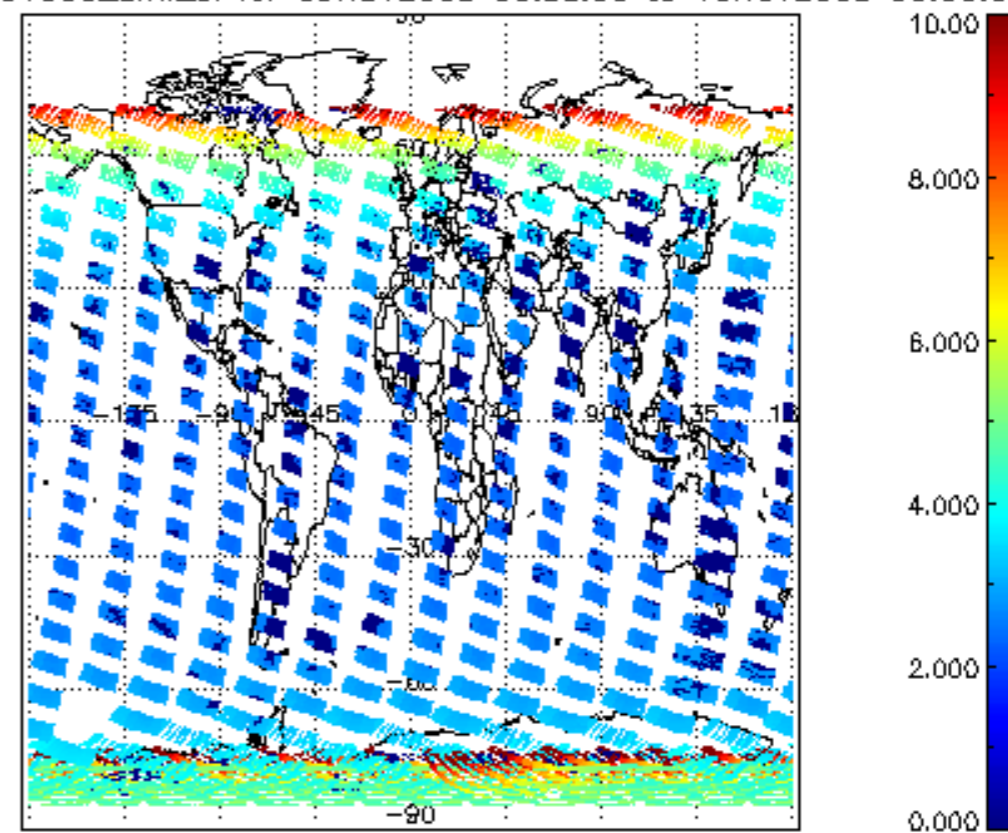
SCIOL2P_NADUV003_vcd_err for 09NOV2008 00:00:00 to 10NOV2008 00:00:00

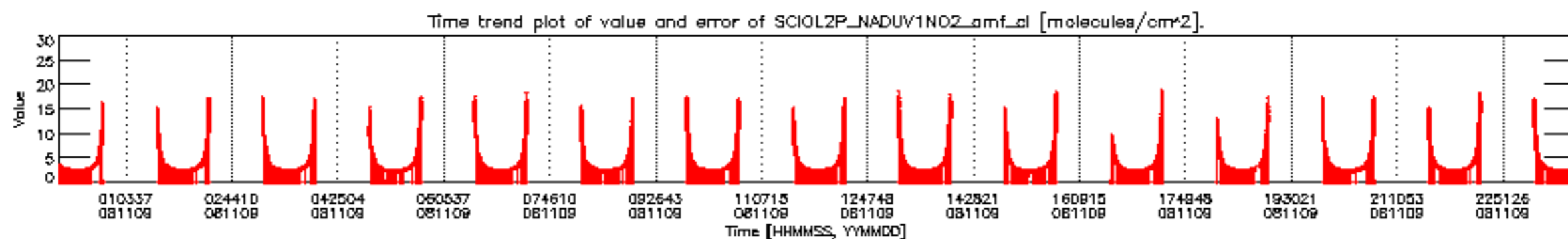
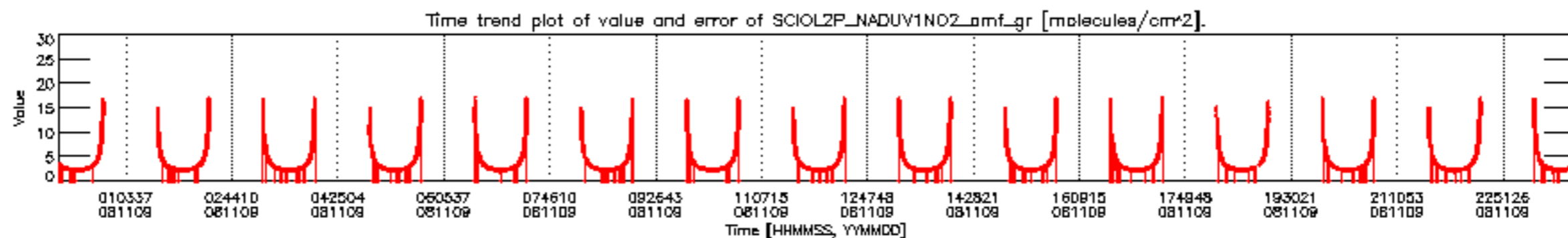
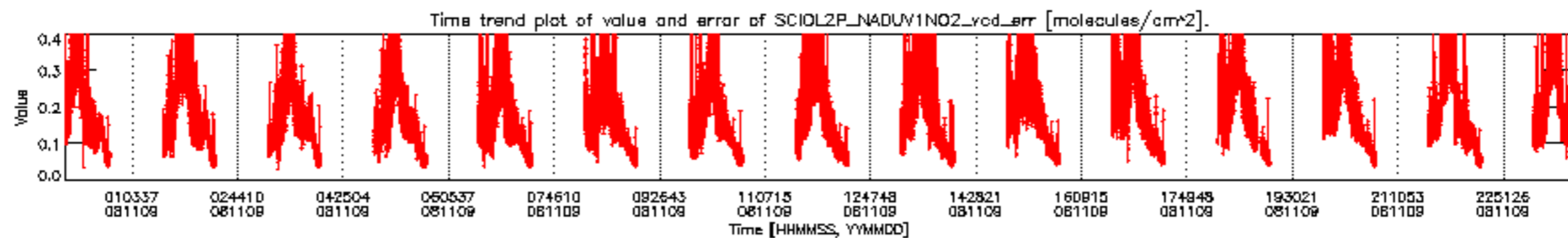
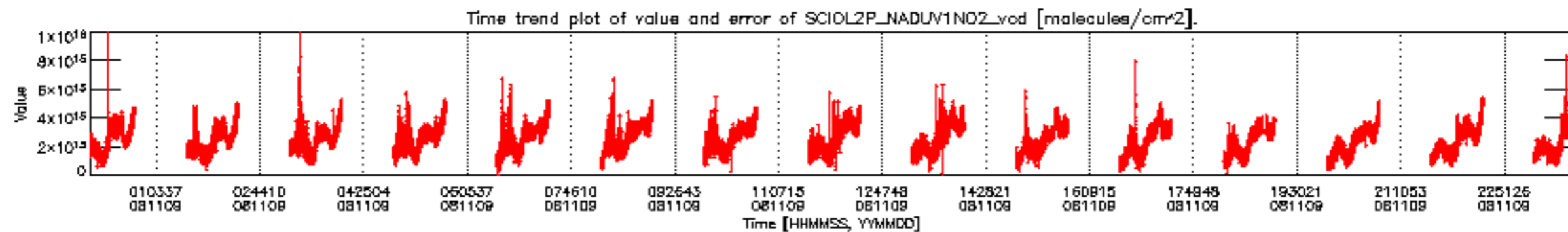


SCIOL2P_NADUV003_amf_gr for 09NOV2008 00:00:00 to 10NOV2008 00:00:00

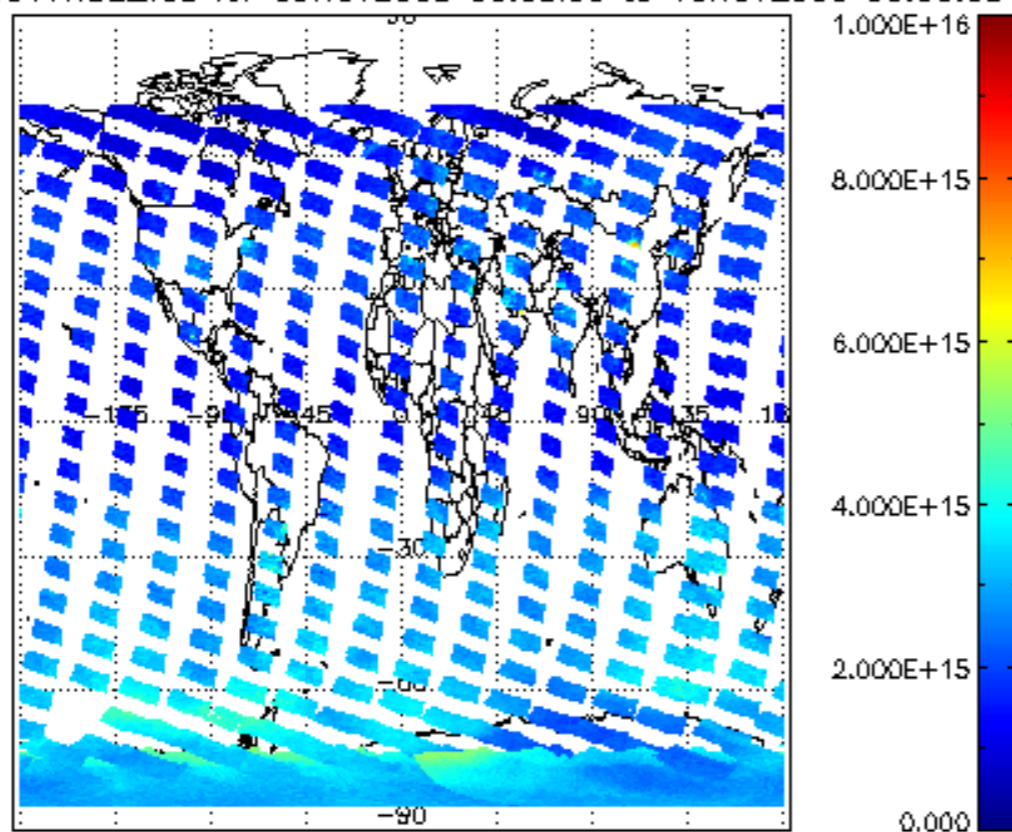


SCIOL2P_NADUV003_amf_cl for 09NOV2008 00:00:00 to 10NOV2008 00:00:00

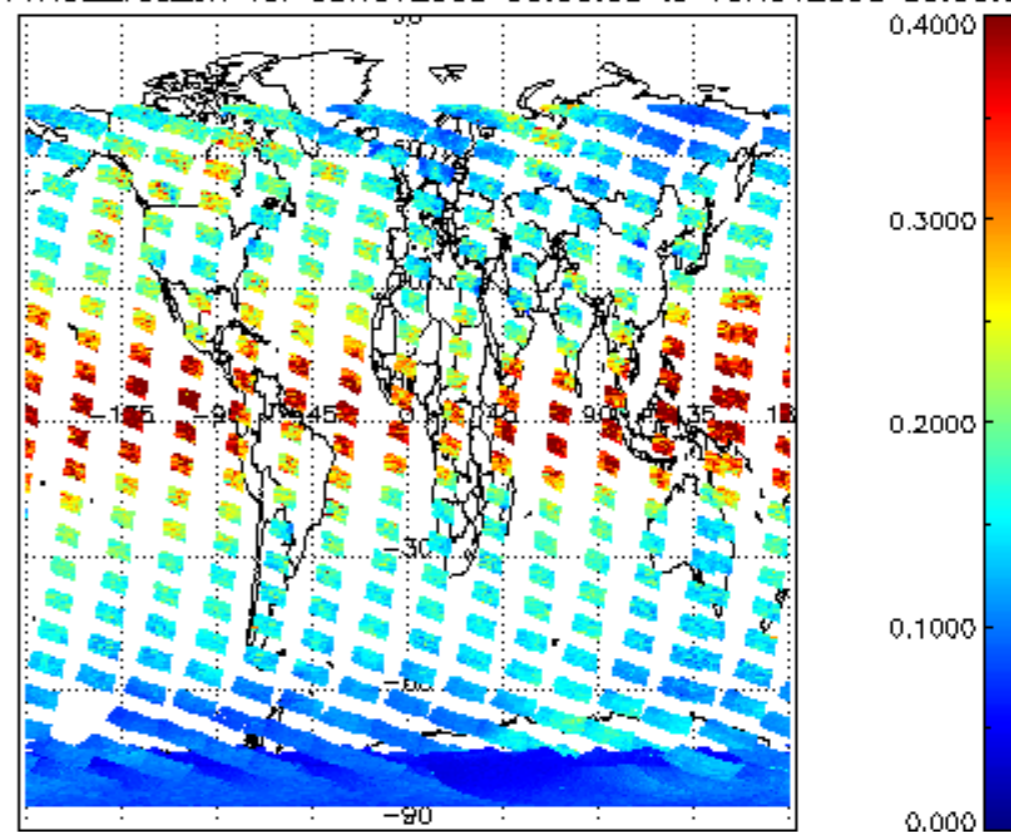




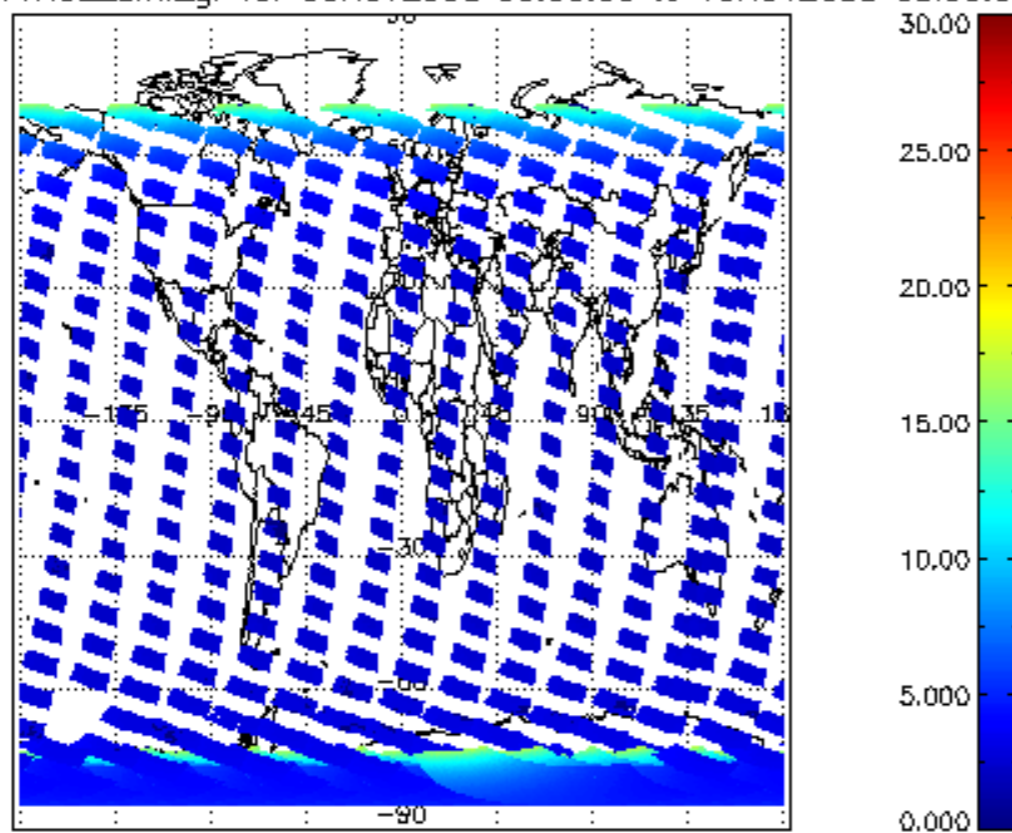
SCIOL2P_NADUV1NO2_vcd for 09NOV2008 00:00:00 to 10NOV2008 00:00:00



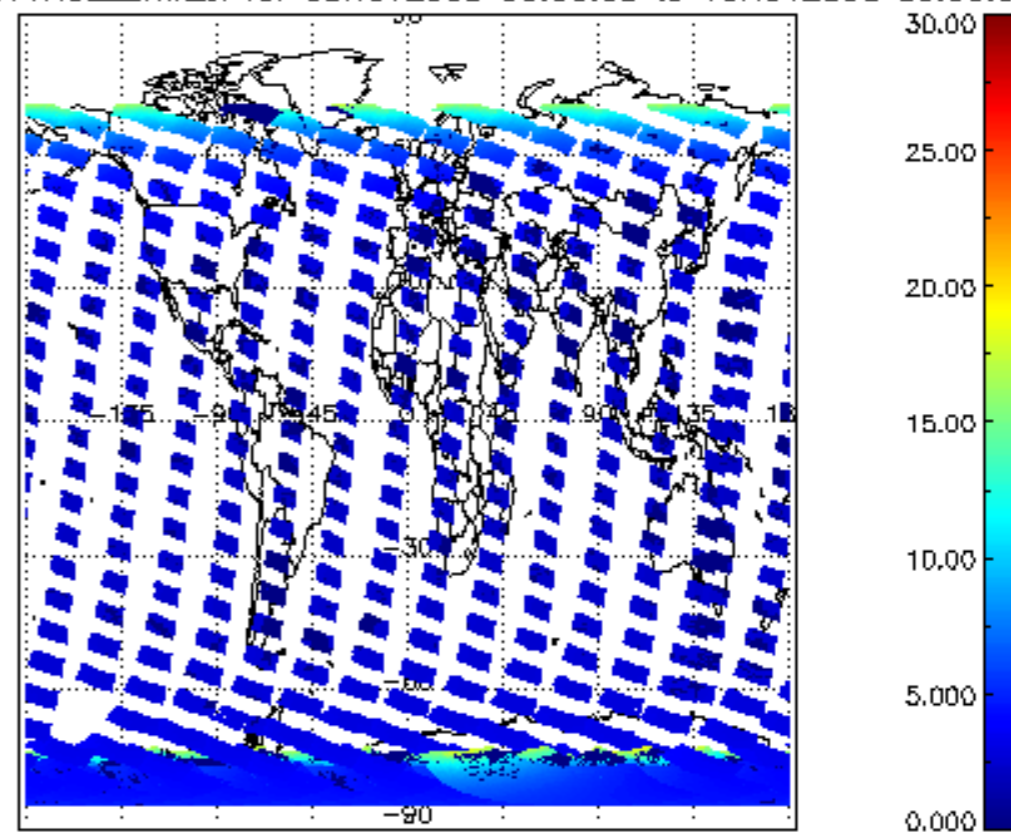
SCIOL2P_NADUV1NO2_vcd_err for 09NOV2008 00:00:00 to 10NOV2008 00:00:00



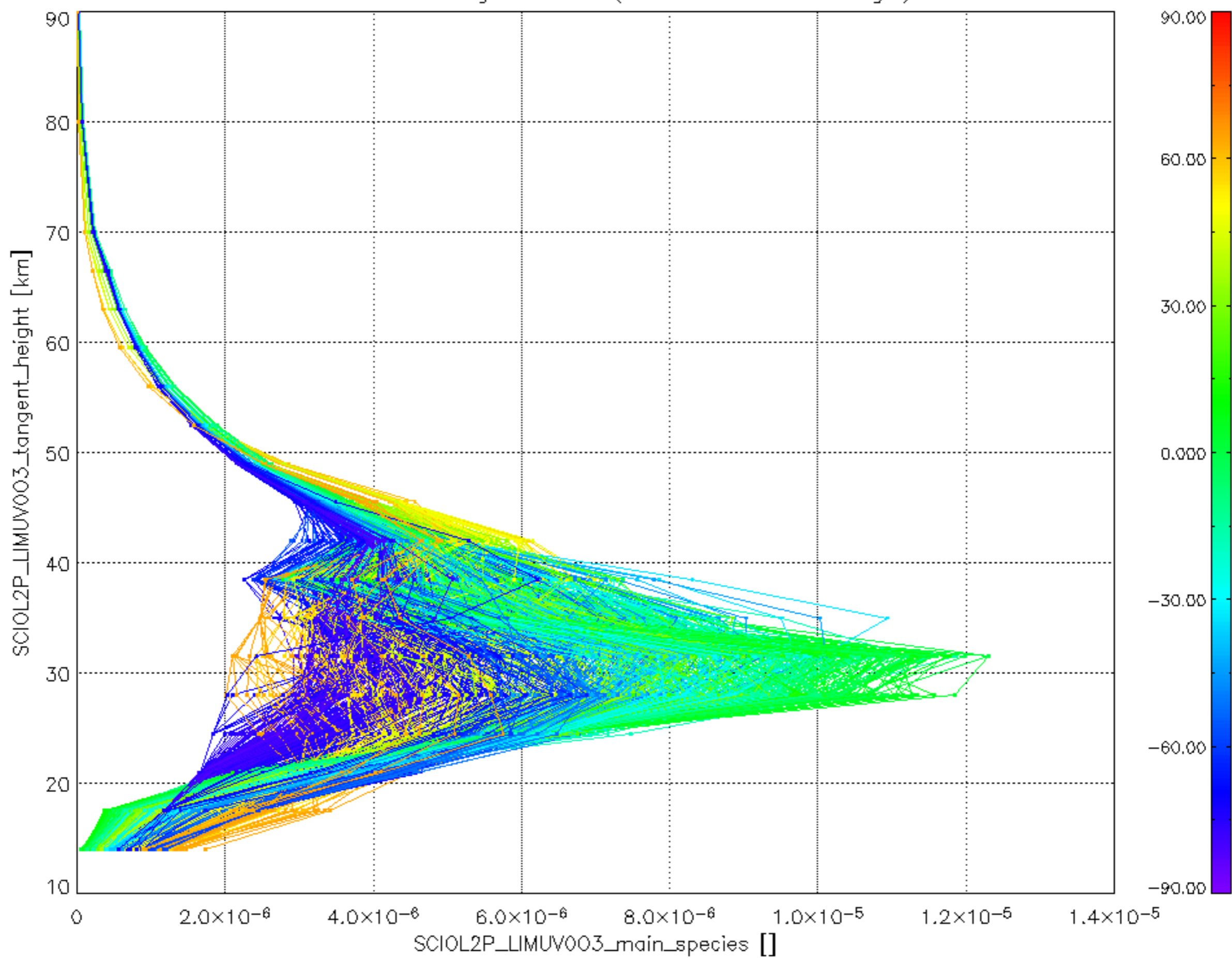
SCIOL2P_NADUV1NO2_amf_gr for 09NOV2008 00:00:00 to 10NOV2008 00:00:00



SCIOL2P_NADUV1NO2_amf_cl for 09NOV2008 00:00:00 to 10NOV2008 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).

