

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	16DEC2009 03:05:02
Data source version	SCIA-OL/3.01-R
Processing scope for products	28NOV2009 00:00:00 to 29NOV2009 00:00:00
Start time of first product within scope	28NOV2009 00:19:56
Stop time of last product within scope	29NOV2009 00:44:43
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__2PRDPA20091128_001956_000033812084_00360_40494_5488.N1	28NOV2009 00:19:56	28NOV2009 01:16:17	0	GOOD
1	SCI_OL__2PRDPA20091128_020032_000033252084_00361_40495_5489.N1	28NOV2009 02:00:32	28NOV2009 02:55:57	0	GOOD
2	SCI_OL__2PRDPA20091128_034108_000033812084_00362_40496_5490.N1	28NOV2009 03:41:08	28NOV2009 04:37:29	0	GOOD
3	SCI_OL__2PRDPA20091128_052144_000033252084_00363_40497_5491.N1	28NOV2009 05:21:44	28NOV2009 06:17:09	0	GOOD
4	SCI_OL__2PRDPA20091128_070220_000033812084_00364_40498_5492.N1	28NOV2009 07:02:20	28NOV2009 07:58:42	0	GOOD
5	SCI_OL__2PRDPA20091128_084256_000033252084_00365_40499_5493.N1	28NOV2009 08:42:56	28NOV2009 09:38:22	0	GOOD
6	SCI_OL__2PRDPA20091128_102332_000033812084_00366_40500_5494.N1	28NOV2009 10:23:32	28NOV2009 11:19:54	0	GOOD
7	SCI_OL__2PRDPA20091128_120408_000033252084_00367_40501_5495.N1	28NOV2009 12:04:08	28NOV2009 12:59:34	0	GOOD
8	SCI_OL__2PRDPA20091128_134444_000033812084_00368_40502_5496.N1	28NOV2009 13:44:44	28NOV2009 14:41:06	0	GOOD
9	SCI_OL__2PRDPA20091128_152521_000033252084_00369_40503_5497.N1	28NOV2009 15:25:21	28NOV2009 16:20:46	0	GOOD
10	SCI_OL__2PRDPA20091128_170557_000033812084_00370_40504_5498.N1	28NOV2009 17:05:57	28NOV2009 18:02:18	0	GOOD
11	SCI_OL__2PRDPA20091128_184655_000033432084_00371_40505_5499.N1	28NOV2009 18:46:55	28NOV2009 19:42:38	0	GOOD
12	SCI_OL__2PRDPA20091128_202731_000033122084_00372_40506_5500.N1	28NOV2009 20:27:31	28NOV2009 21:22:44	0	GOOD
13	SCI_OL__2PRDPA20091128_220745_000033252084_00373_40507_5501.N1	28NOV2009 22:07:45	28NOV2009 23:03:11	0	GOOD
14	SCI_OL__2PRDPA20091128_234821_000033812084_00374_40508_5502.N1	28NOV2009 23:48:21	29NOV2009 00:44:43	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: 148980

Total number of cloud data DSRs with good quality flag (=0): 148980 (100.0 %)

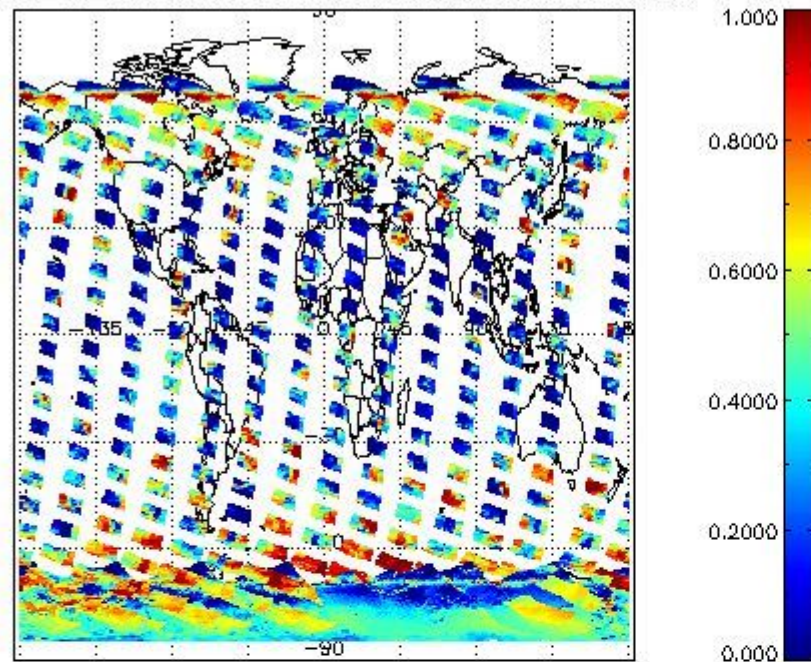
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	148980	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	148980	0.16928	0.12500	0.12500	0.25000	0.059787	s
CL_FRAC	148980	0.38232	0.38823	0.0000	1.0000	0.27502	-
CL_FRAC_ERR	148980	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	148980	5.4171	4.0000	4.0000	8.0000	1.9132	
PMD_READ_CL[0]	148980	0.18840	0.0000	0.0000	8.0000	0.98473	-
PMD_READ_CL[1]	148980	1.0679	0.0000	0.0000	8.0000	2.2609	-
CL_TOP_HEIGHT	127273	3.8590	3.0050	0.0000	17.000	3.5687	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	127273	57.037	53.928	0.0000	101.00	40.933	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	148980	11100000	11100000	11100000	11100000	0.0000	flags
CLOUD_FLAGS	148980	11001010	11000100	11000000	11100000	3321.8	flags
AERO_ABSO_IND	148980	4.1856	4.9645	0.0000	18.457	2.8268	
AERO_IND_DIAG	148980	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	148980	01010110	00000000	00000000	11000000	24449.	flags

Time and geolocation plots:

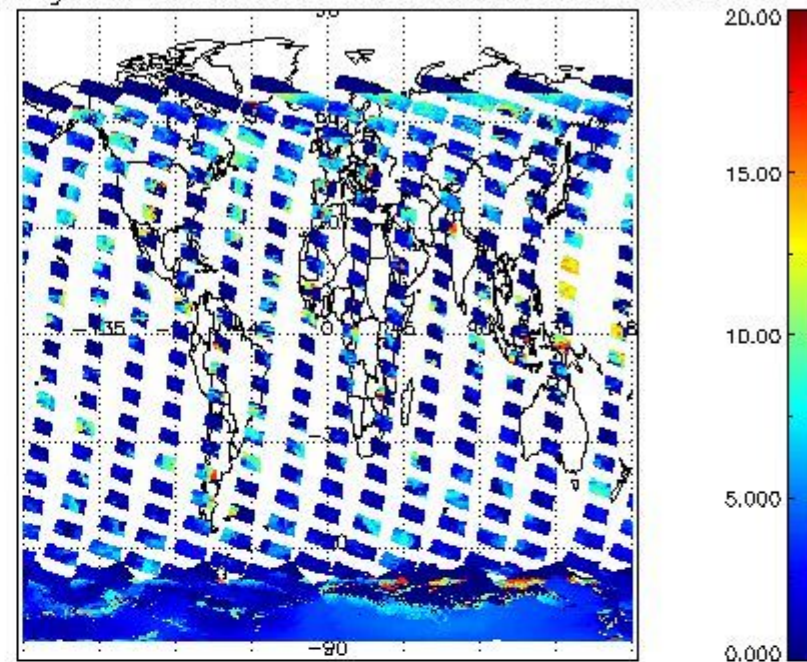
Plots are available for the following parameters:

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

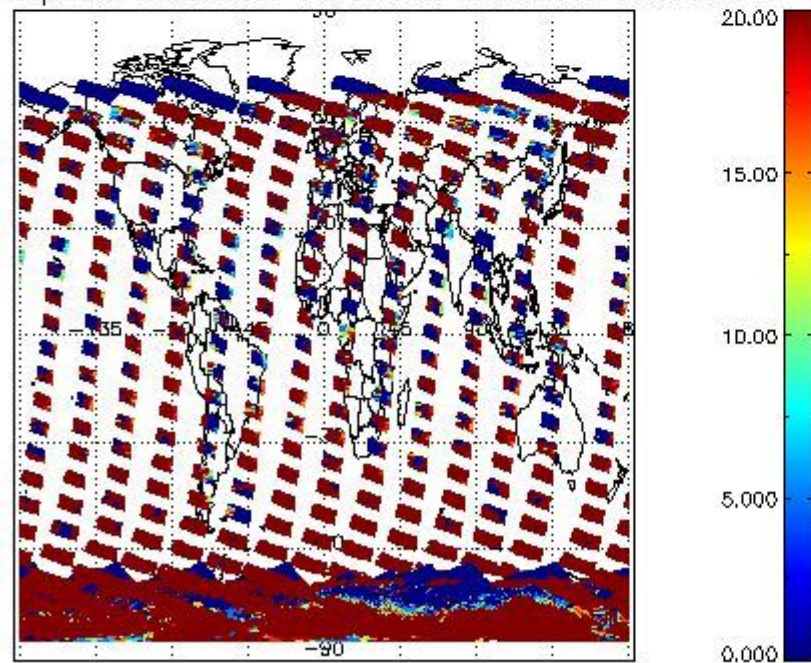
cLfrac for 28NOV2009 00:00:00 to 29NOV2009 00:00:00



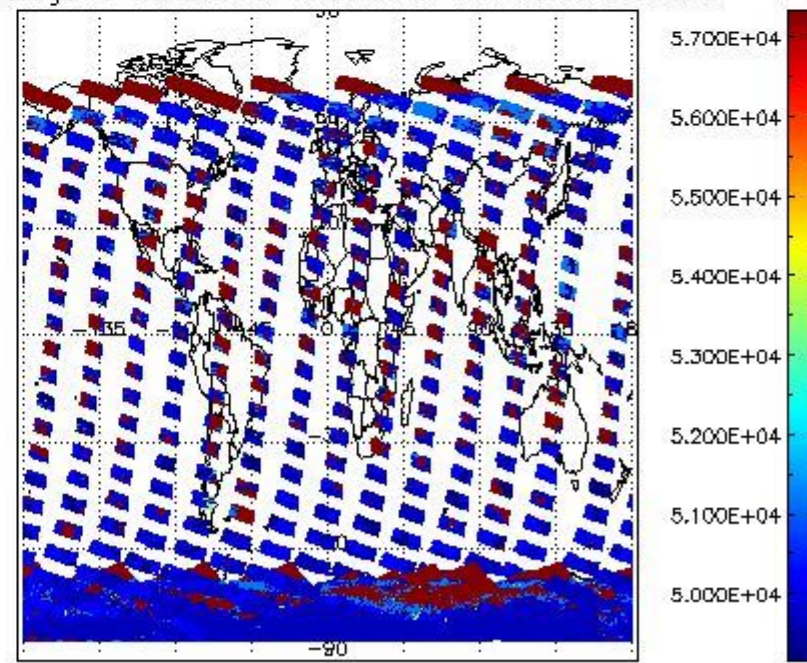
cL_top_height for 28NOV2009 00:00:00 to 29NOV2009 00:00:00



cLopt_depth for 28NOV2009 00:00:00 to 29NOV2009 00:00:00



cloud_flags for 28NOV2009 00:00:00 to 29NOV2009 00:00:00



2.2.2 Nadir

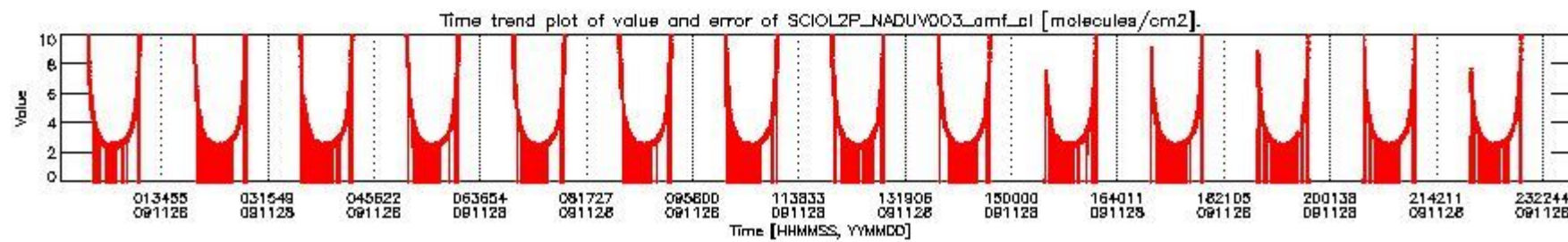
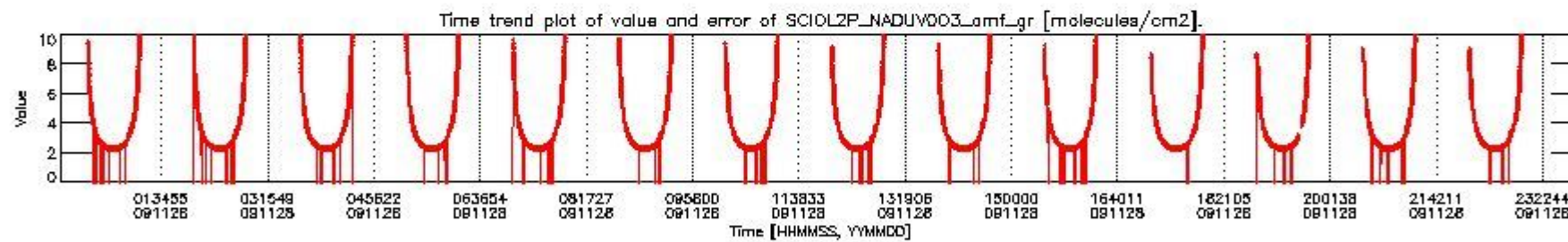
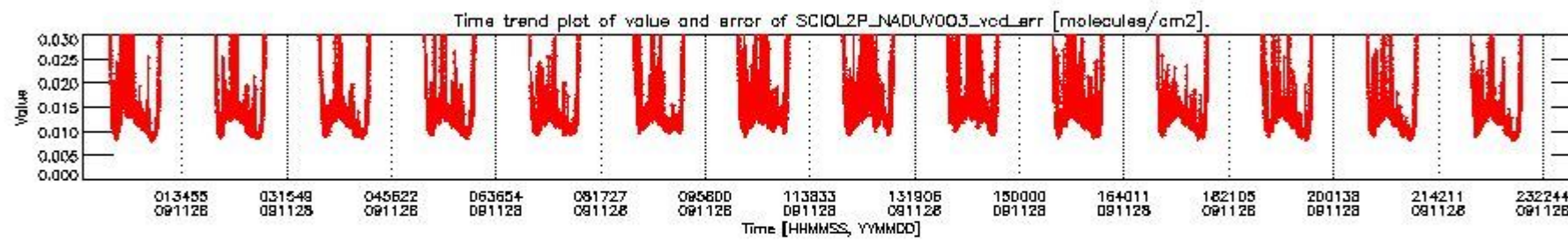
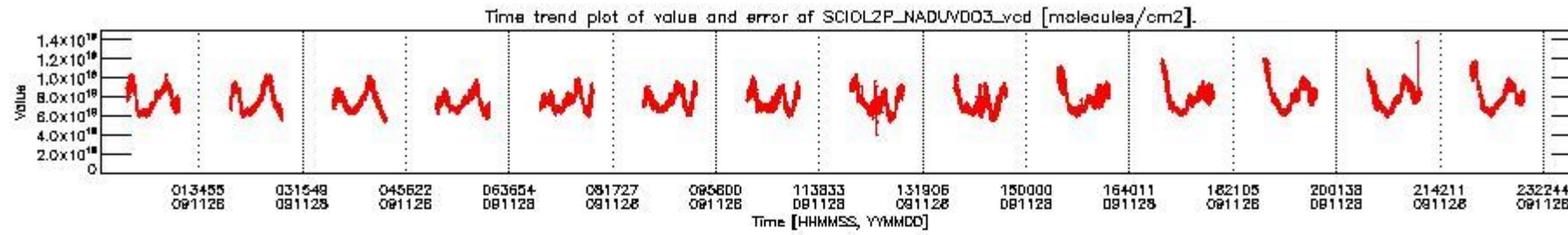
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

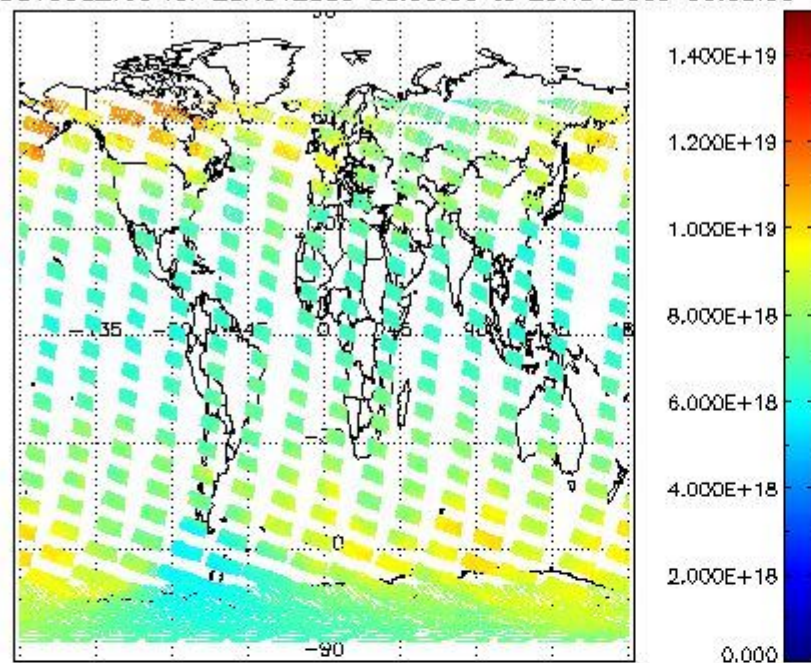
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

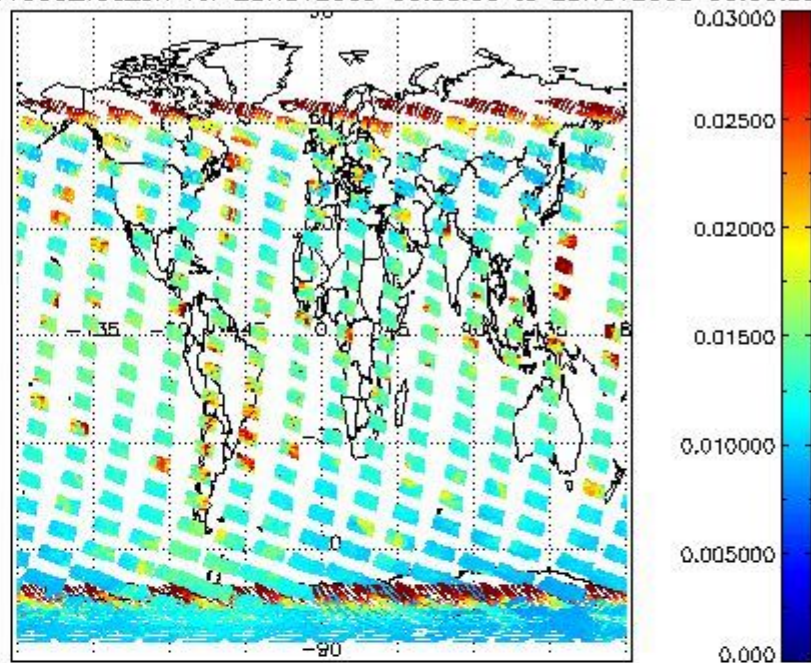
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



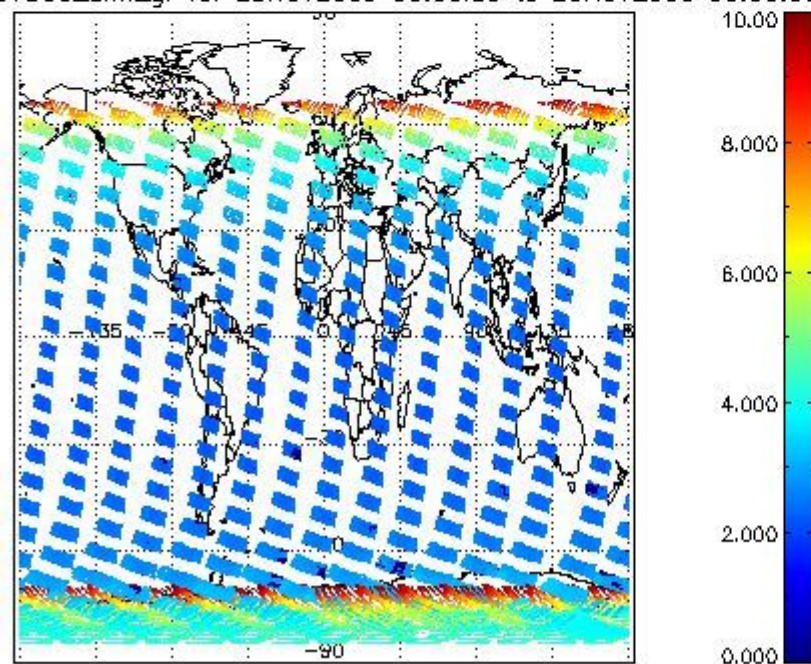
SCIOL2P_NADUV003_vcd for 28NOV2009 00:00:00 to 29NOV2009 00:00:00



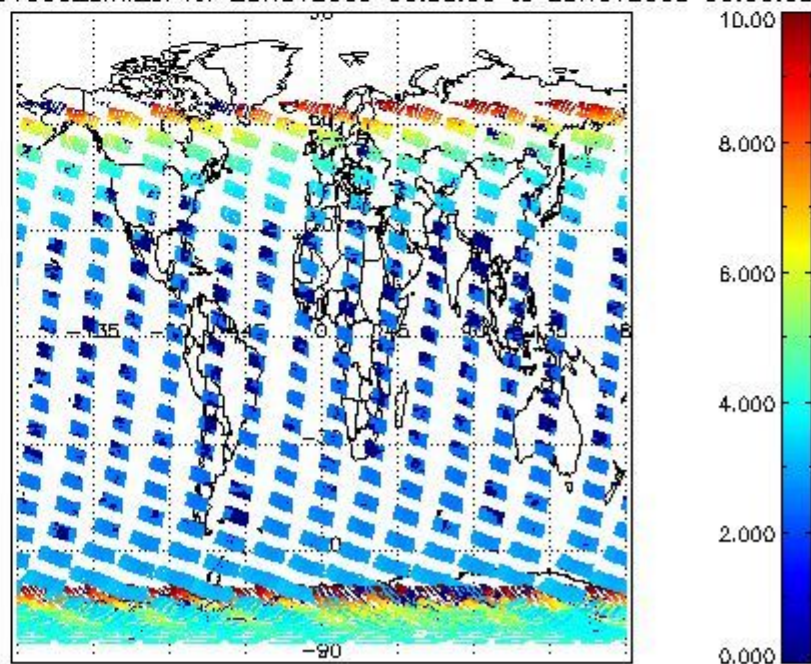
SCIOL2P_NADUV003_vcd_err for 28NOV2009 00:00:00 to 29NOV2009 00:00:00

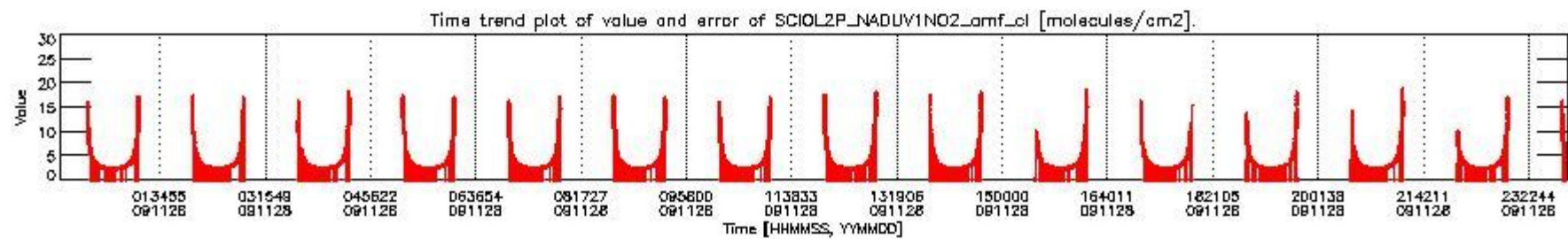
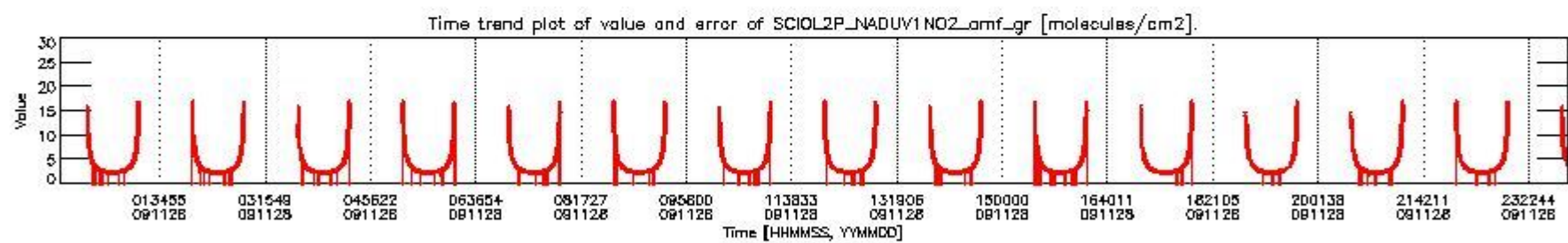
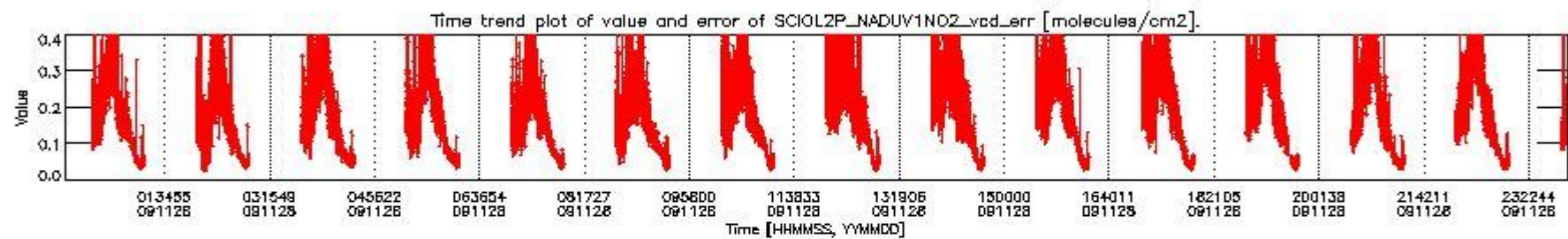
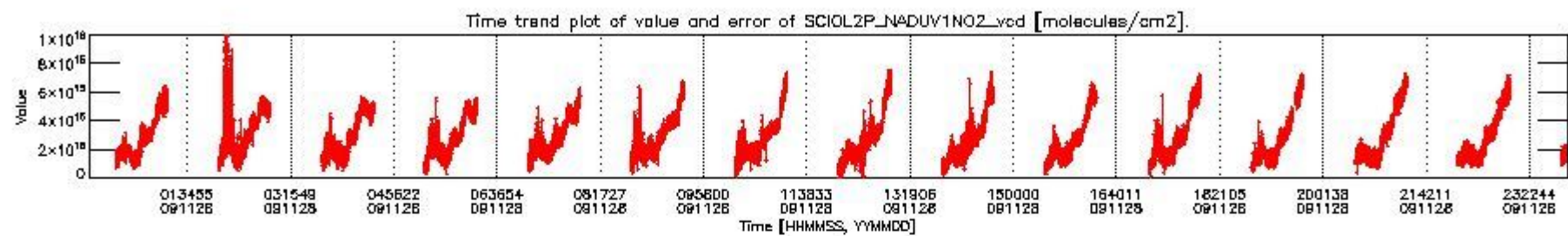


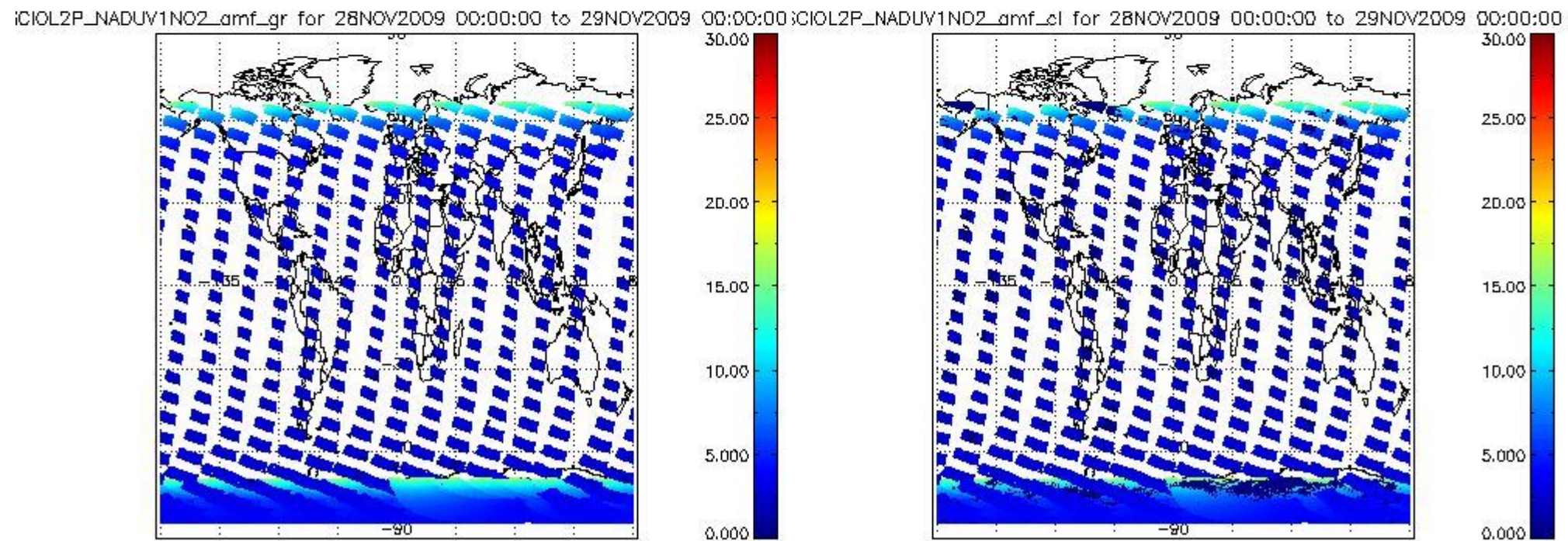
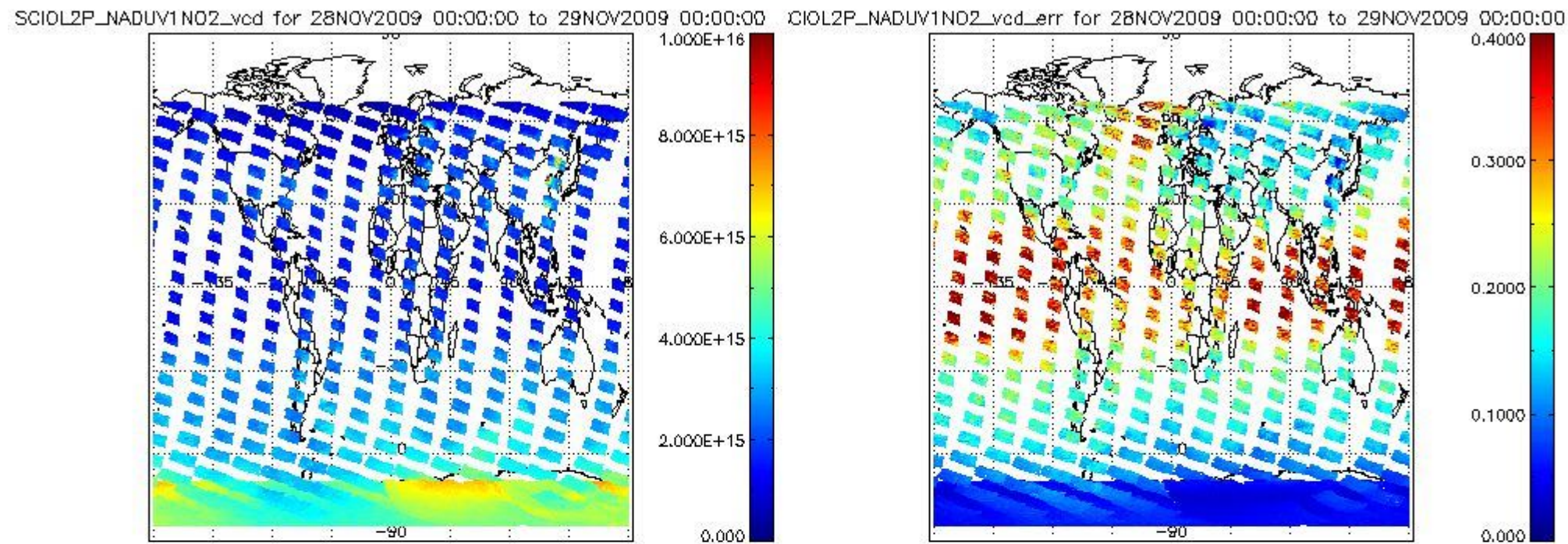
SCIOL2P_NADUV003_amf_gr for 28NOV2009 00:00:00 to 29NOV2009 00:00:00



SCIOL2P_NADUV003_amf_cl for 28NOV2009 00:00:00 to 29NOV2009 00:00:00







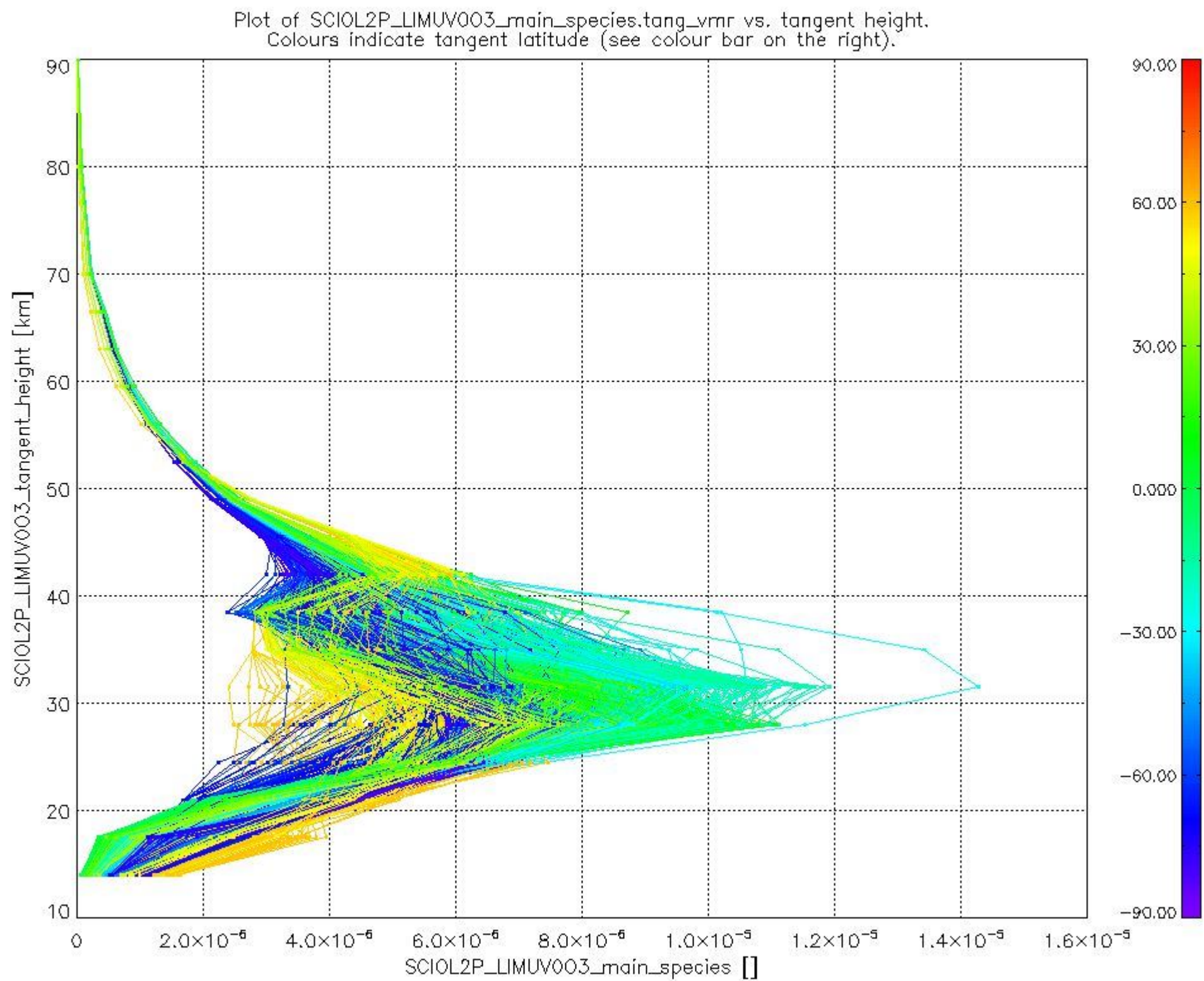
2.2.3 Limb

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

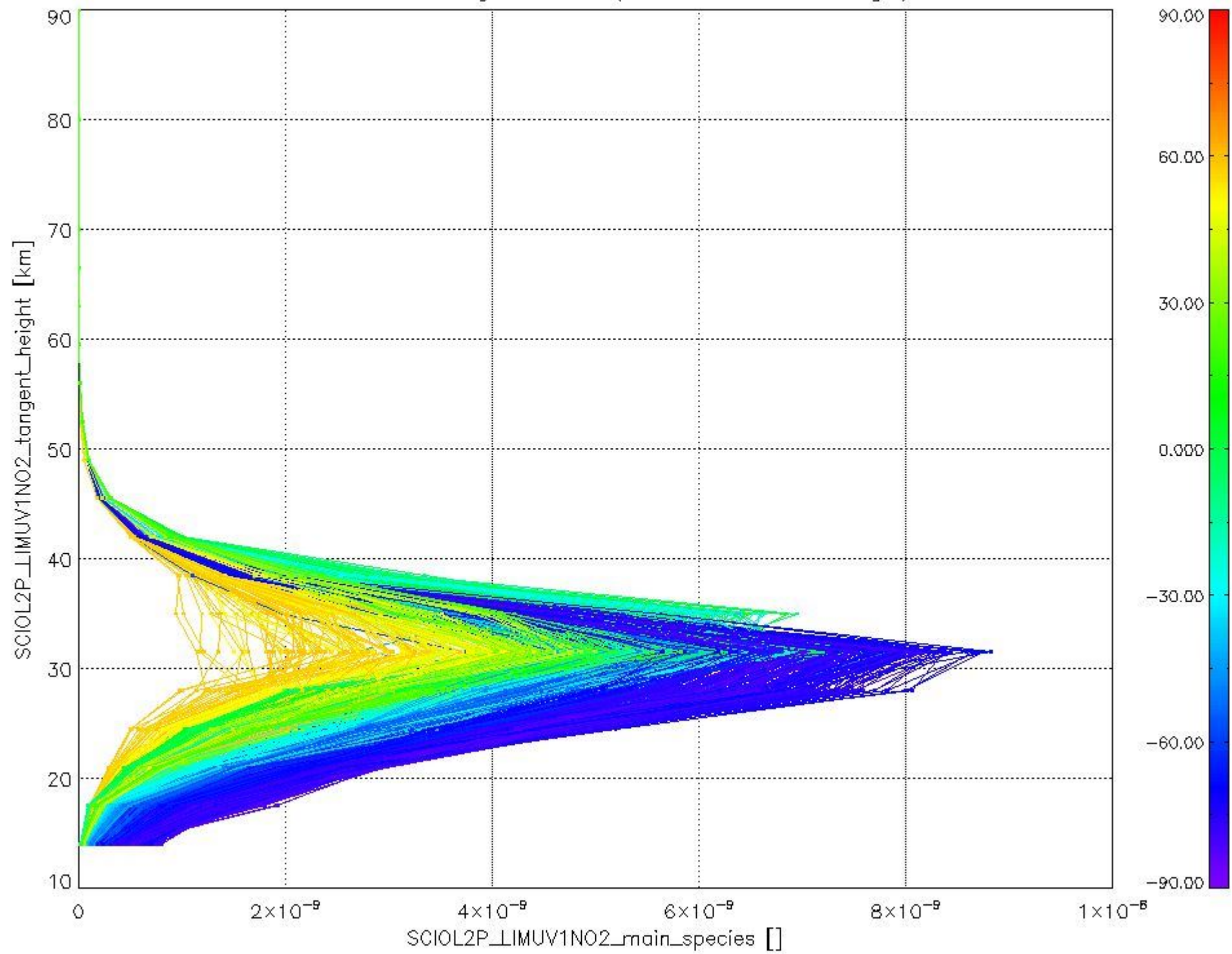
The following data items are currently included into this section:

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.



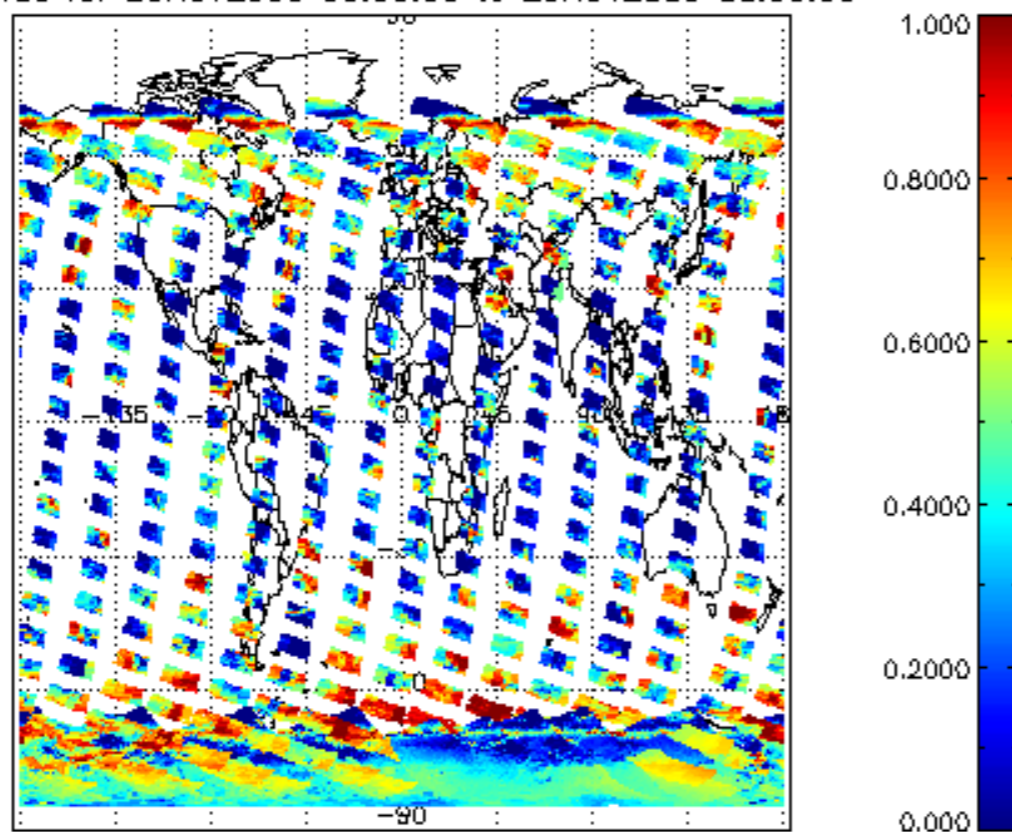
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



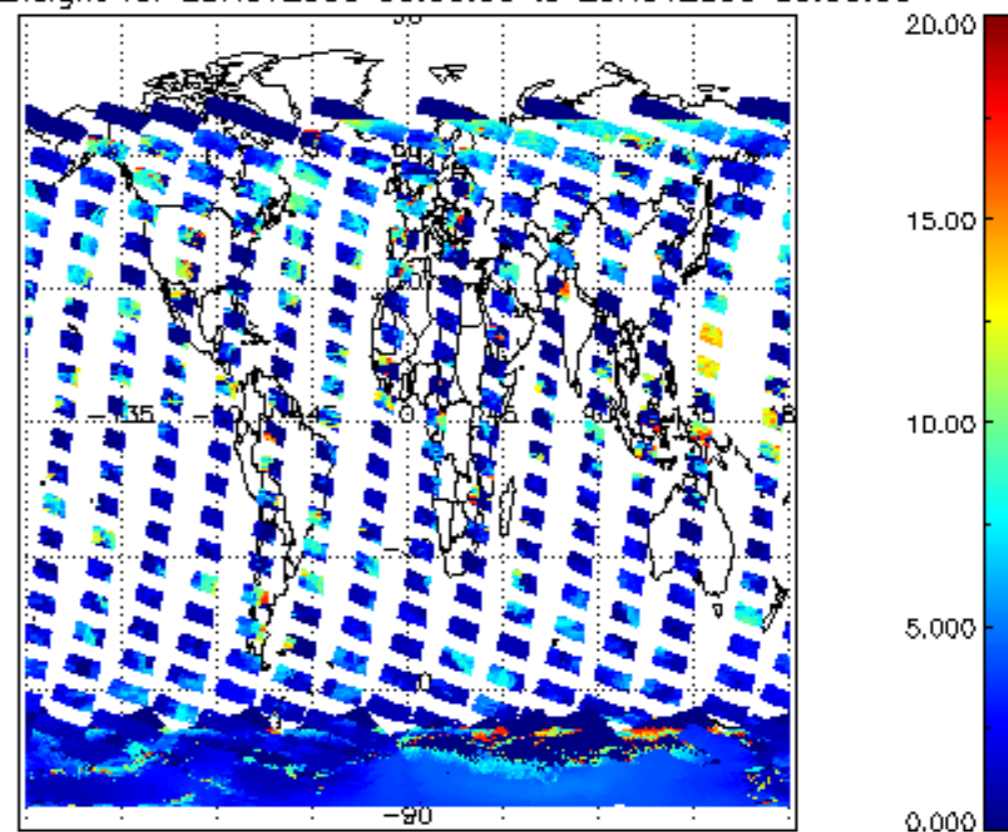
2.3 ADF monitoring

Number	ADF
	IN_ (INITIALISATION_FILE)
0	SCI_IN__AXNPDE20070629_092400_20070720_000000_20991231_235959
	ECF (ECMWF_FILE)
1	NOT USED

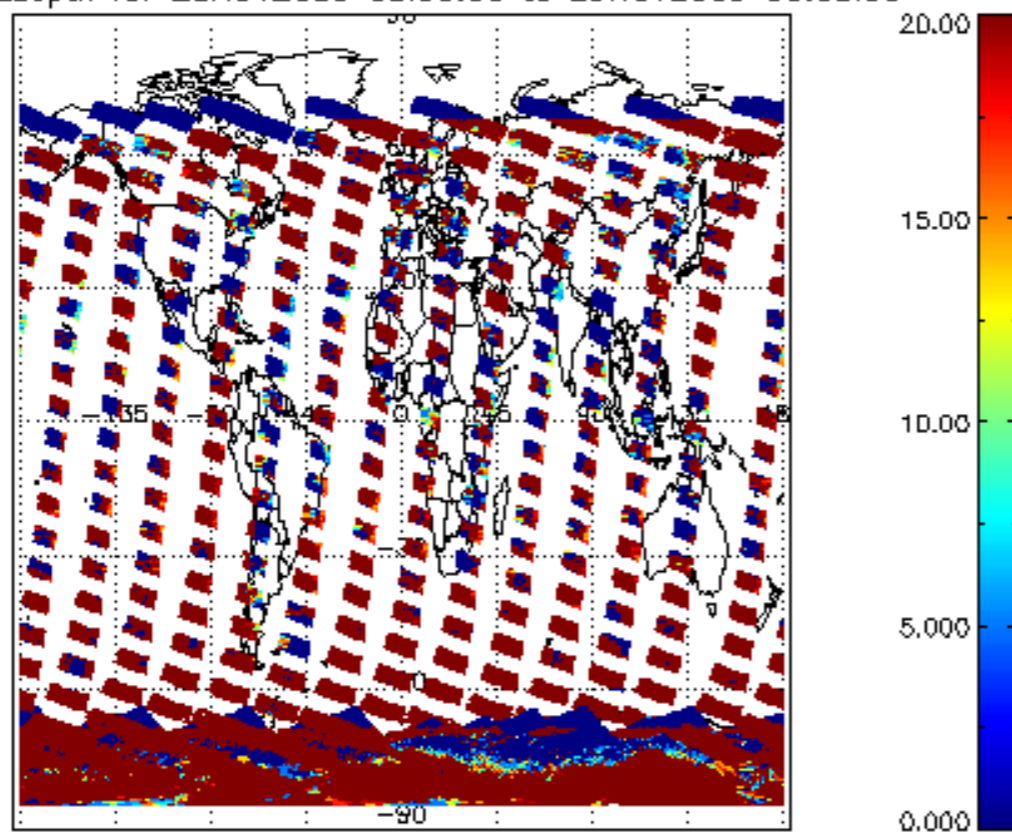
cLfrac for 28NOV2009 00:00:00 to 29NOV2009 00:00:00



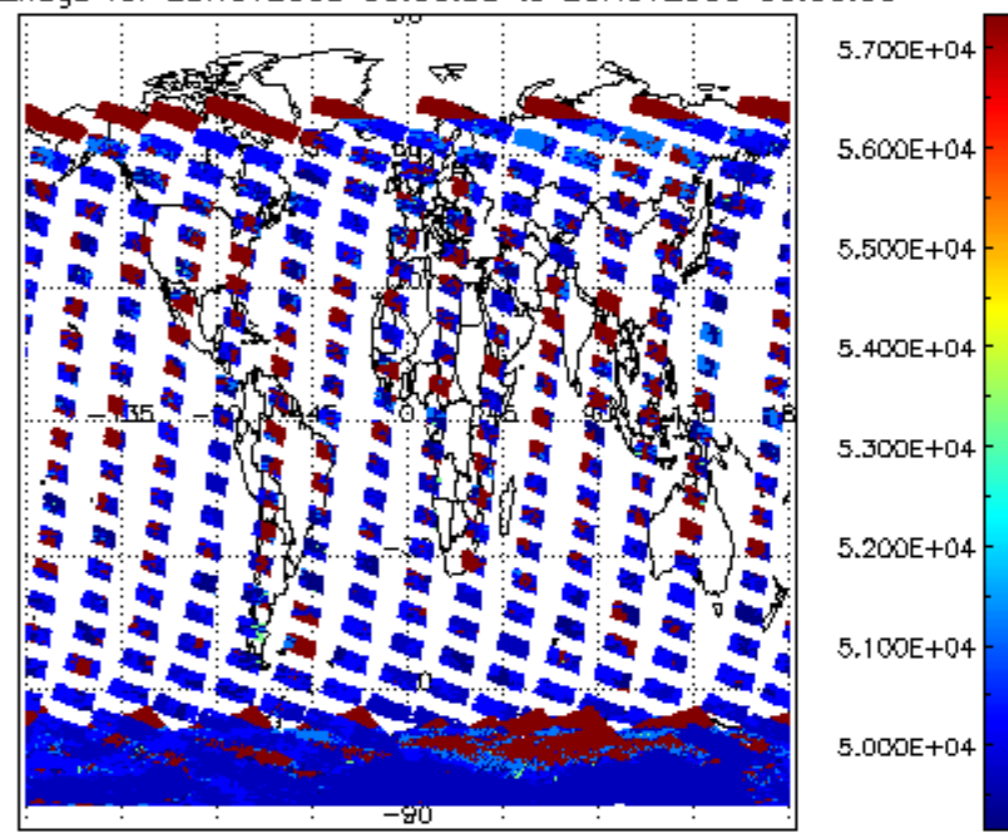
cL_top_height for 28NOV2009 00:00:00 to 29NOV2009 00:00:00

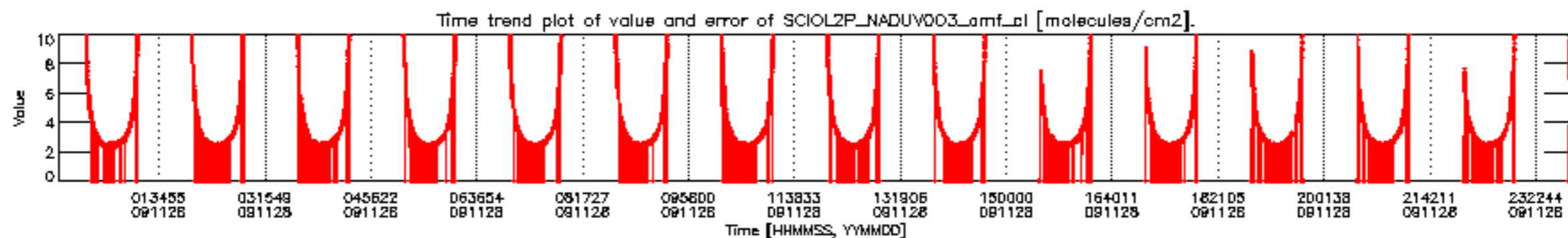
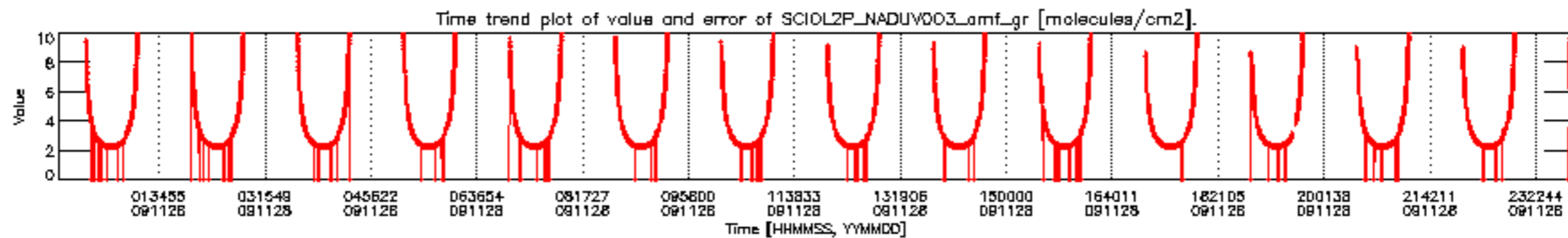
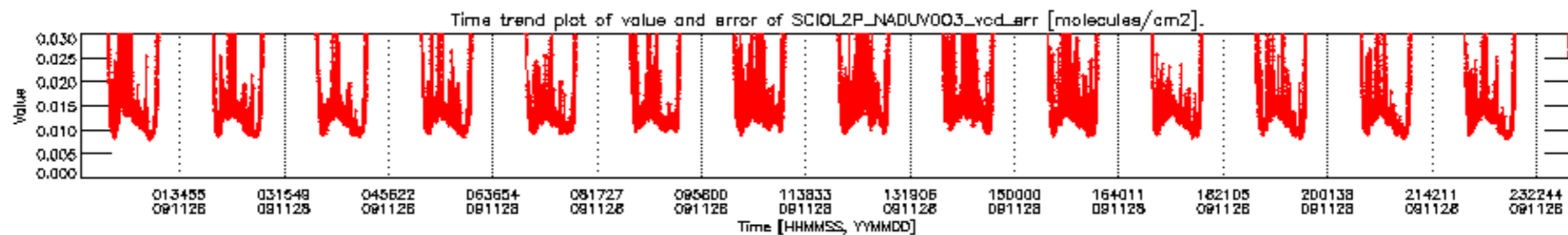
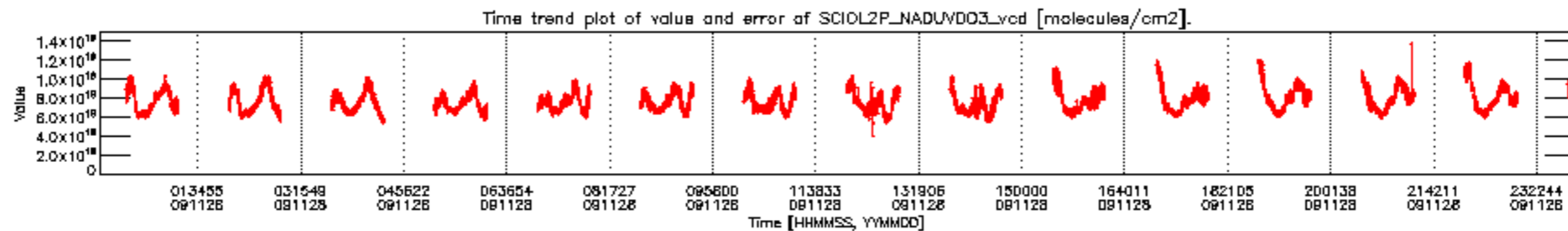


cL_opt_depth for 28NOV2009 00:00:00 to 29NOV2009 00:00:00

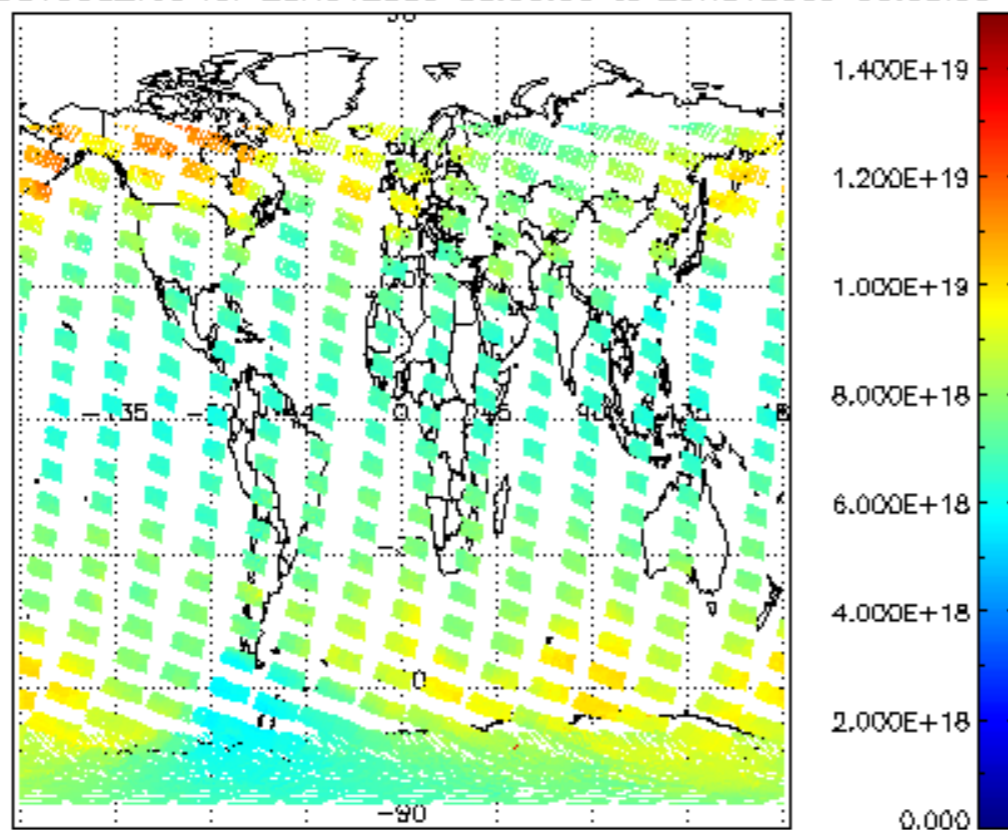


cloud_flags for 28NOV2009 00:00:00 to 29NOV2009 00:00:00

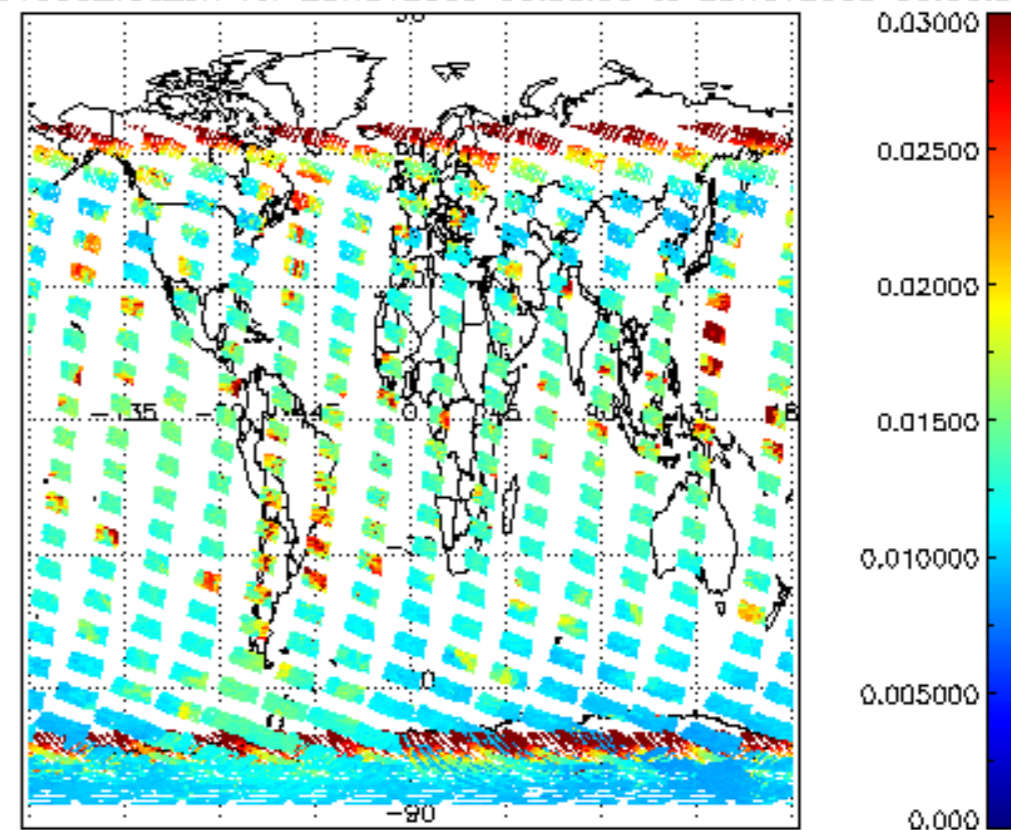




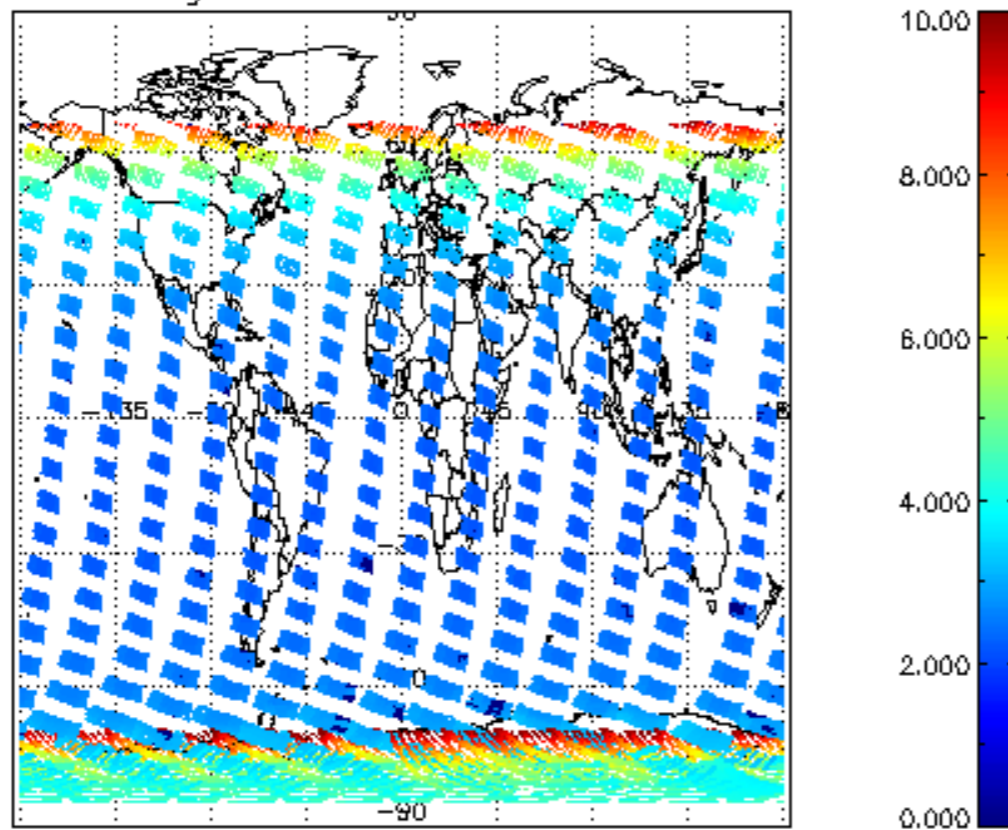
SCIOL2P_NADUV003_vcd for 28NOV2009 00:00:00 to 29NOV2009 00:00:00



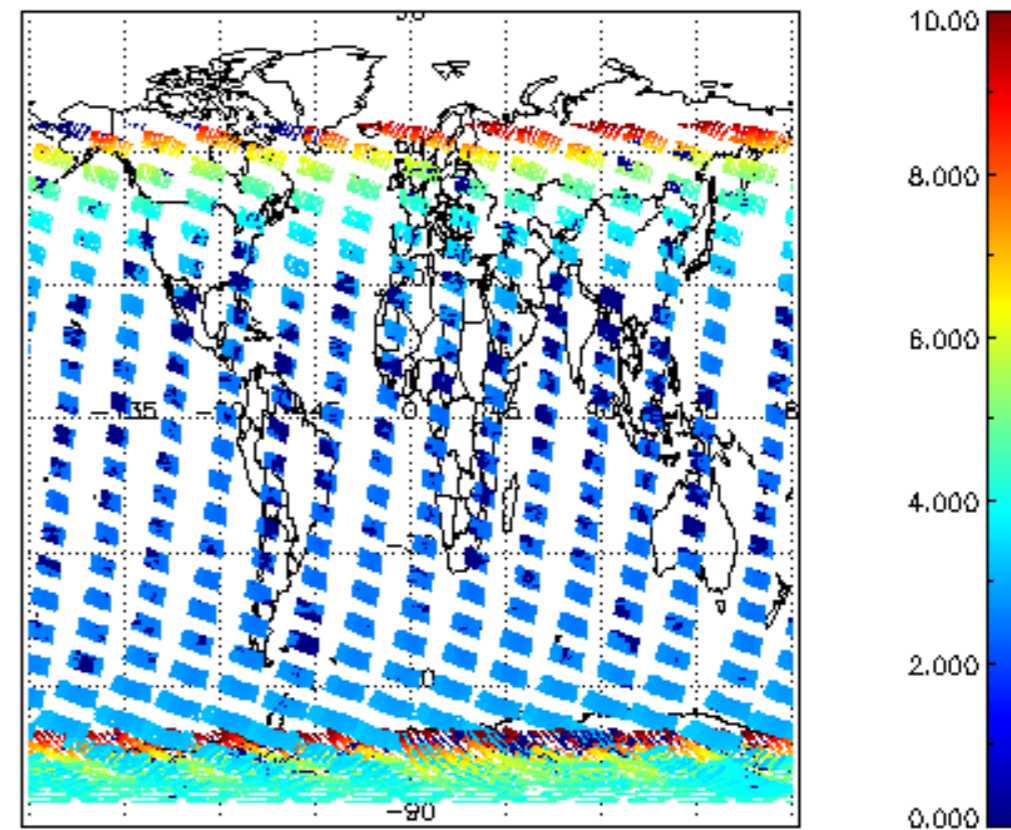
SCIOL2P_NADUV003_vcd_err for 28NOV2009 00:00:00 to 29NOV2009 00:00:00

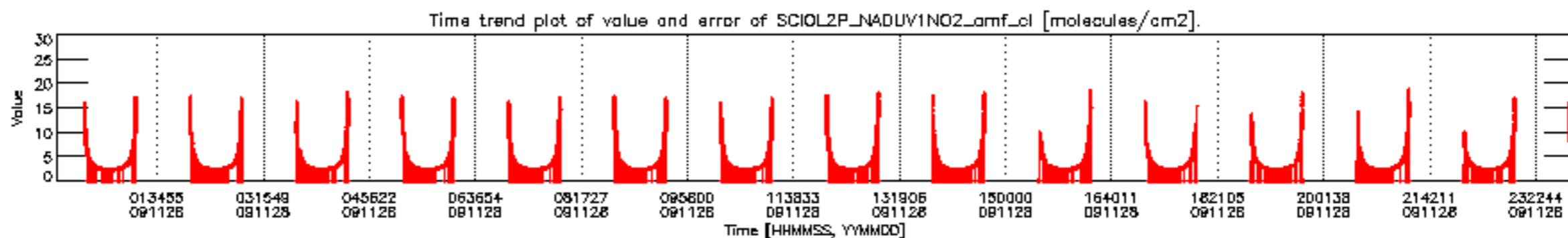
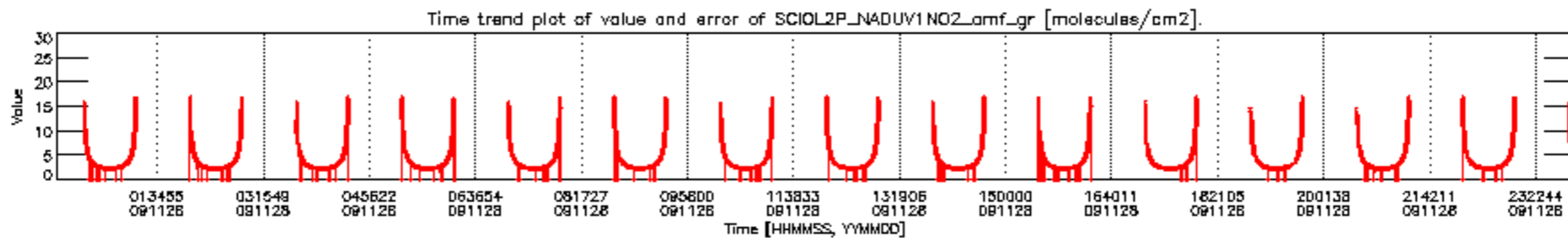
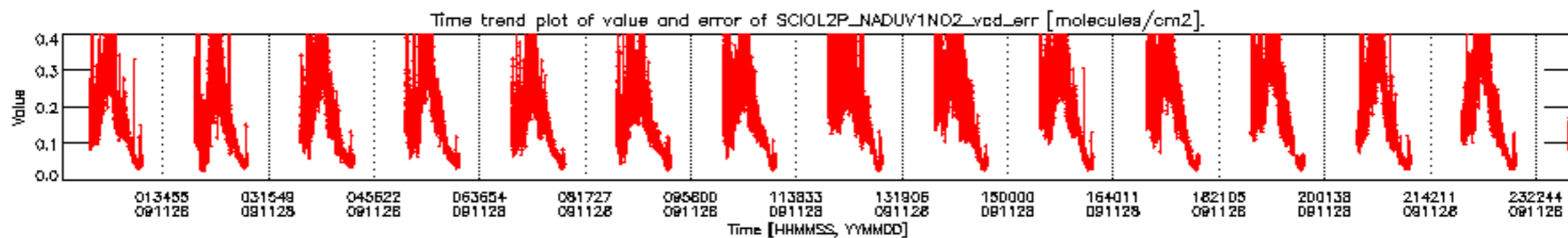
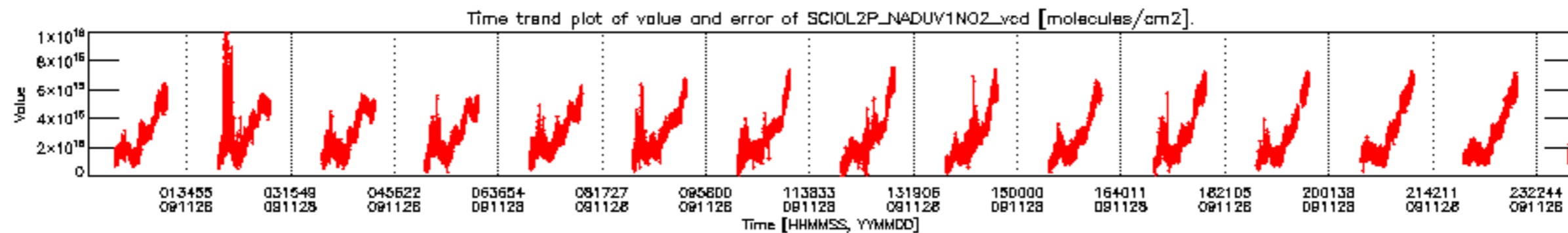


SCIOL2P_NADUV003_amf_gr for 28NOV2009 00:00:00 to 29NOV2009 00:00:00

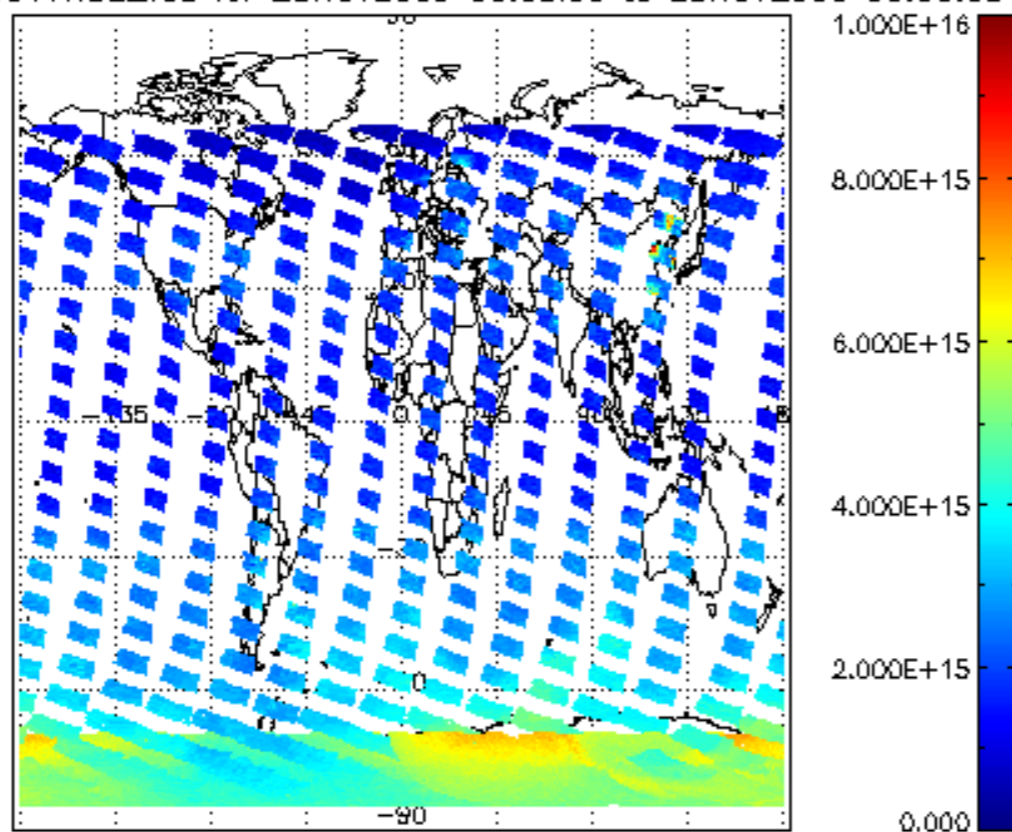


SCIOL2P_NADUV003_amf_cl for 28NOV2009 00:00:00 to 29NOV2009 00:00:00

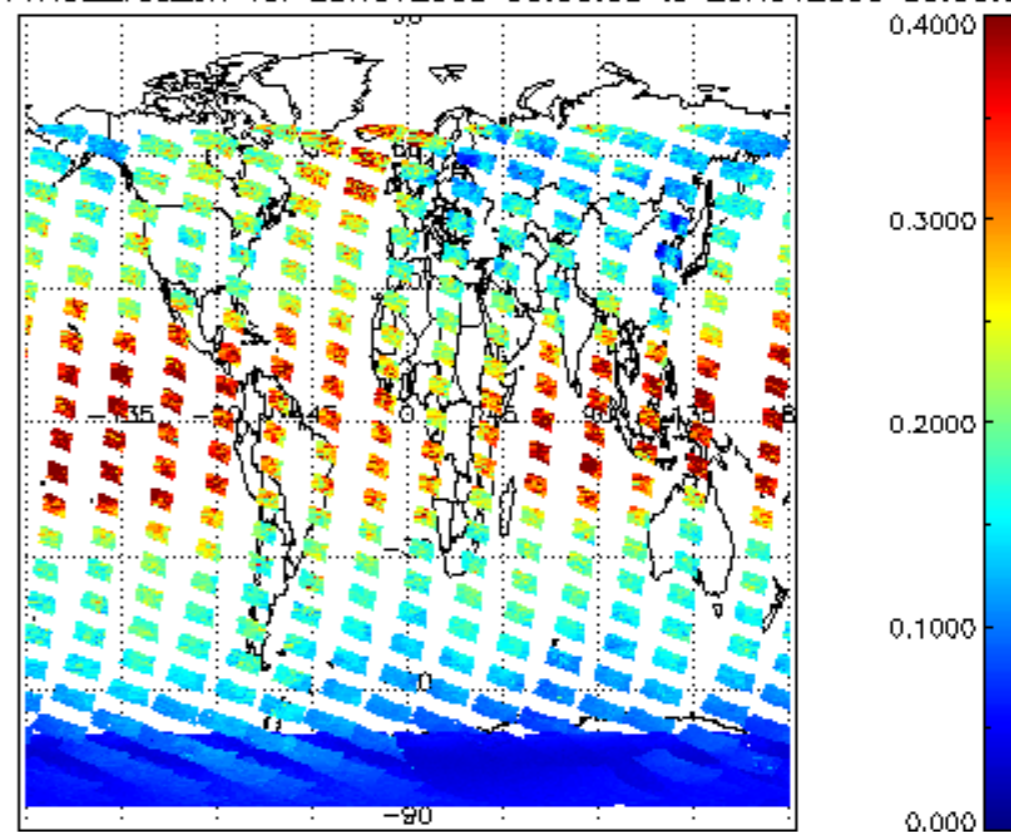




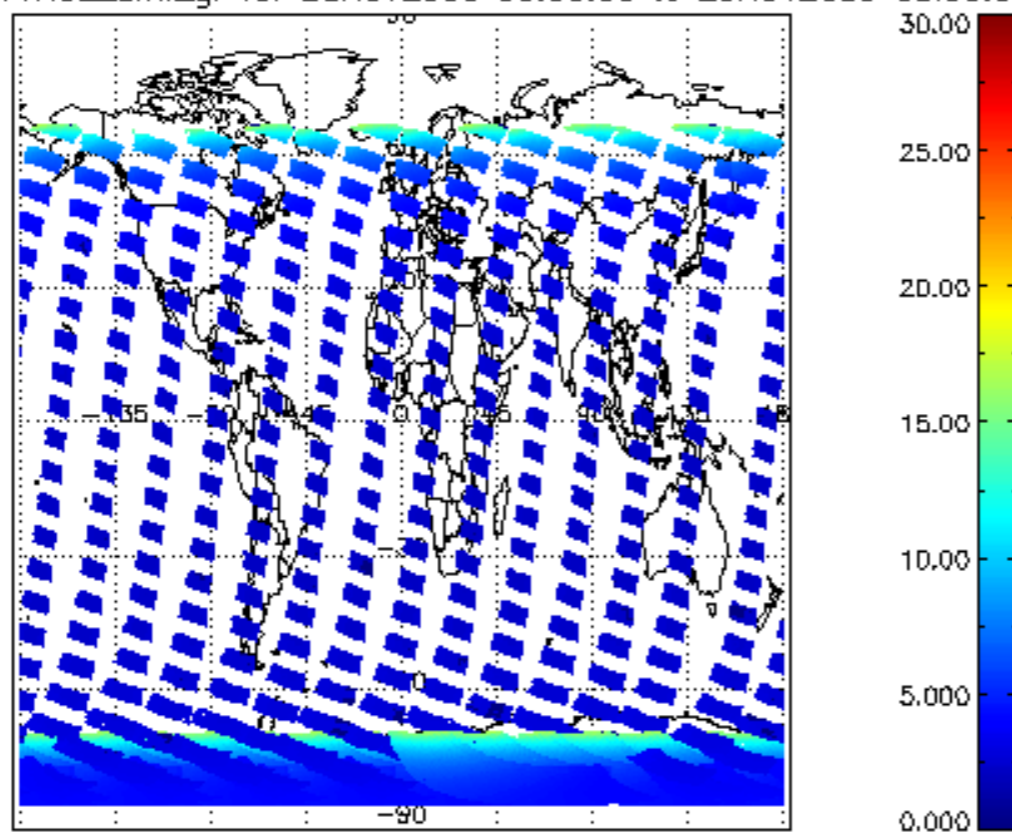
SCIOL2P_NADUV1NO2_vcd for 28NOV2009 00:00:00 to 29NOV2009 00:00:00



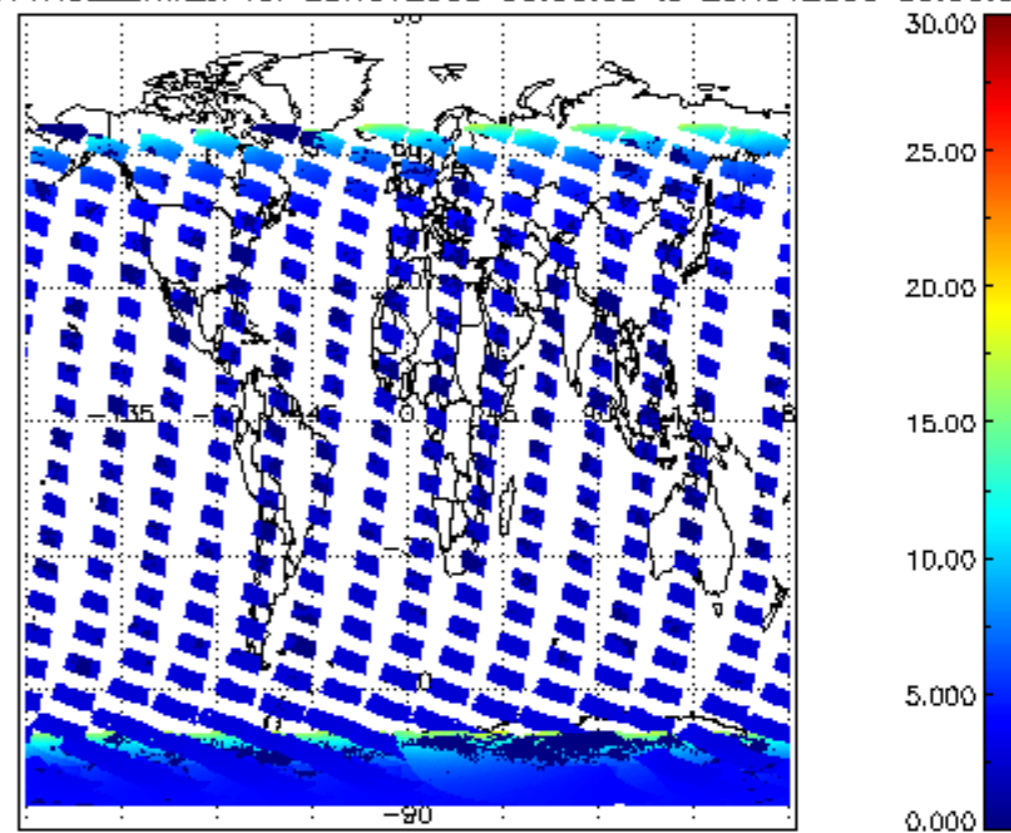
SCIOL2P_NADUV1NO2_vcd_err for 28NOV2009 00:00:00 to 29NOV2009 00:00:00



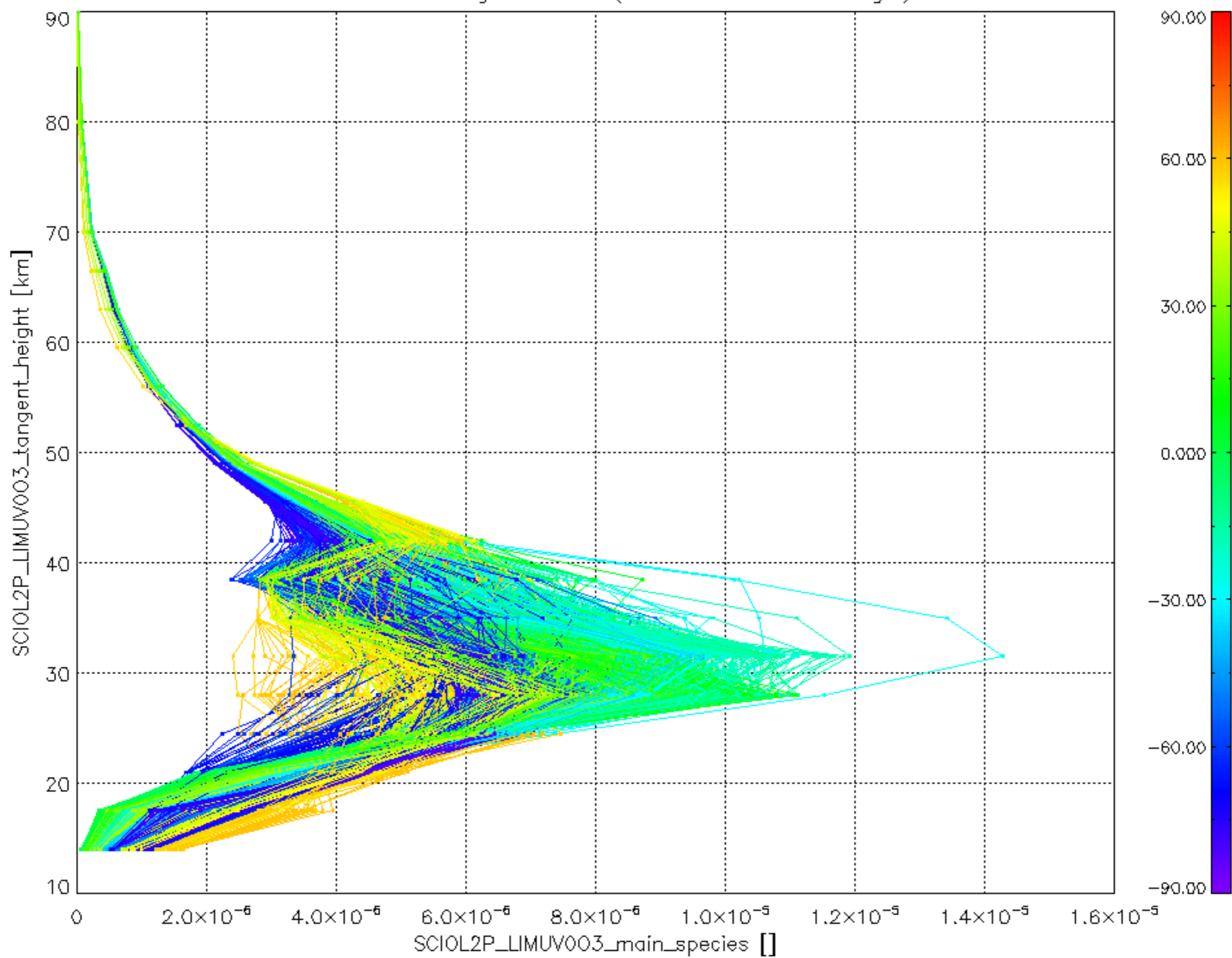
SCIOL2P_NADUV1NO2_amf_gr for 28NOV2009 00:00:00 to 29NOV2009 00:00:00



SCIOL2P_NADUV1NO2_amf_cl for 28NOV2009 00:00:00 to 29NOV2009 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_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).

