

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	19NOV2008 16:23:10
Data source version	SCIA-OL/3.01-R
Processing scope for products	11NOV2004 00:00:00 to 12NOV2004 00:00:00
Start time of first product within scope	10NOV2004 23:01:29
Stop time of last product within scope	12NOV2004 01:06:54
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__2PRDPA20041110_230129_000033252032_00030_14112_0529.N1	10NOV2004 23:01:29	10NOV2004 23:56:54	0	GOOD
1	SCI_OL__2PRDPA20041111_004205_000033812032_00031_14113_0507.N1	11NOV2004 00:42:05	11NOV2004 01:38:27	0	GOOD
2	SCI_OL__2PRDPA20041111_022241_000033252032_00032_14114_0534.N1	11NOV2004 02:22:41	11NOV2004 03:18:07	0	GOOD
3	SCI_OL__2PRDPA20041111_040318_000033812032_00033_14115_0479.N1	11NOV2004 04:03:18	11NOV2004 04:59:39	0	GOOD
4	SCI_OL__2PRDPA20041111_054354_000033252032_00034_14116_0565.N1	11NOV2004 05:43:54	11NOV2004 06:39:19	0	GOOD
5	SCI_OL__2PRDPA20041111_072430_000033812032_00035_14117_0450.N1	11NOV2004 07:24:30	11NOV2004 08:20:52	0	GOOD
6	SCI_OL__2PRDPA20041111_104543_000033812032_00037_14119_0473.N1	11NOV2004 10:45:43	11NOV2004 11:42:04	0	GOOD
7	SCI_OL__2PRDPA20041111_122619_000033252032_00038_14120_0547.N1	11NOV2004 12:26:19	11NOV2004 13:21:44	0	GOOD
8	SCI_OL__2PRDPA20041111_140655_000033812032_00039_14121_0579.N1	11NOV2004 14:06:55	11NOV2004 15:03:16	0	GOOD
9	SCI_OL__2PRDPA20041111_154731_000033252032_00040_14122_0460.N1	11NOV2004 15:47:31	11NOV2004 16:42:57	0	GOOD
10	SCI_OL__2PRDPA20041111_172800_000033732032_00041_14123_0580.N1	11NOV2004 17:28:00	11NOV2004 18:24:13	0	GOOD
11	SCI_OL__2PRDPA20041111_190904_000033252032_00042_14124_0609.N1	11NOV2004 19:09:04	11NOV2004 20:04:30	0	GOOD
12	SCI_OL__2PRDPA20041111_204920_000030382032_00043_14125_0606.N1	11NOV2004 20:49:20	11NOV2004 21:39:59	0	GOOD
13	SCI_OL__2PRDPA20041111_222956_000033252032_00044_14126_0482.N1	11NOV2004 22:29:56	11NOV2004 23:25:22	0	GOOD
14	SCI_OL__2PRDPA20041112_001033_000033812032_00045_14127_0530.N1	12NOV2004 00:10:33	12NOV2004 01:06:54	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: 132080

Total number of cloud data DSRs with good quality flag (=0): 132080 (100.0 %)

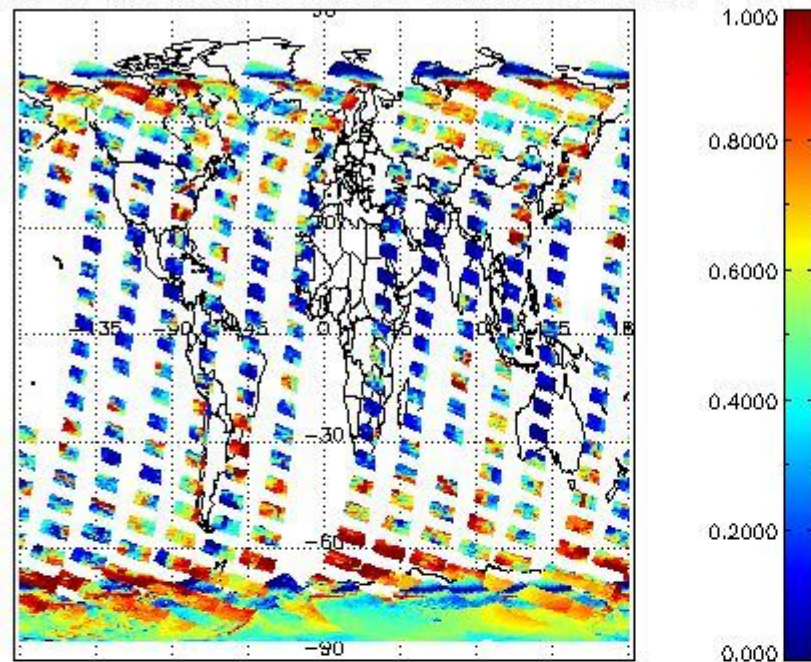
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	132080	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	132080	0.16880	0.12500	0.12500	0.25000	0.059637	s
CL_FRAC	132080	0.46138	0.46501	0.0000	1.0000	0.28030	-
CL_FRAC_ERR	132080	0.0000	0.0000	0.0000	0.0000	0.0000	rel. fraction
PMD_READ	132080	5.4016	4.0000	4.0000	8.0000	1.9084	
PMD_READ_CL[0]	132080	0.34301	0.0000	0.0000	8.0000	1.3460	-
PMD_READ_CL[1]	132080	0.39251	0.0000	0.0000	8.0000	1.3688	-
CL_TOP_HEIGHT	114107	4.5903	3.5330	0.0000	17.000	4.1079	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	114107	53.293	39.910	0.0000	101.00	39.722	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	132080	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	132080	11001000	11000100	11000000	11100000	2919.8	flags
AERO_ABSO_IND	132080	0.61559	0.32024	-4.1618	11.573	1.0645	
AERO_IND_DIAG	132080	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	132080	01010110	00000000	00000000	11000000	24445.	flags

Time and geolocation plots:

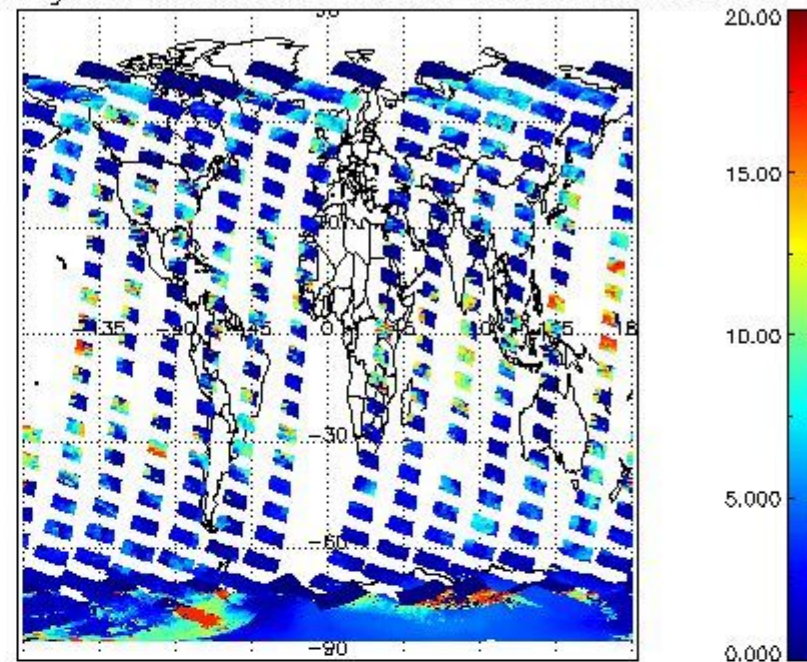
Plots are available for the following parameters:

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

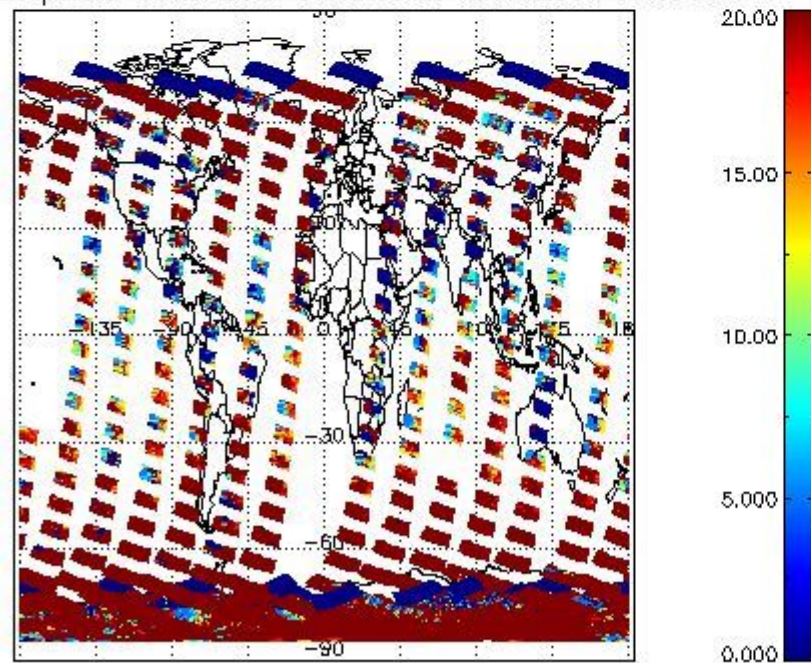
cLfrac for 11NOV2004 00:00:00 to 12NOV2004 00:00:00



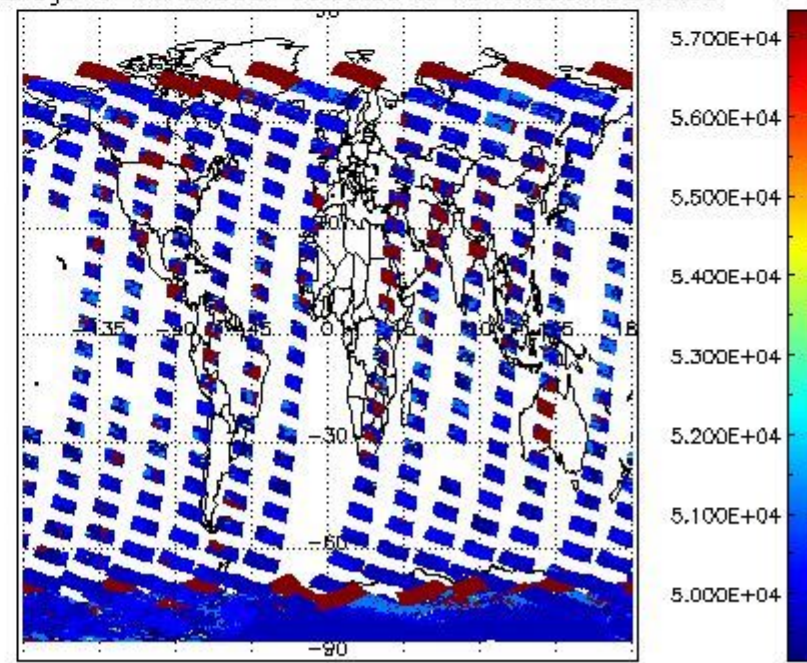
cL_top_height for 11NOV2004 00:00:00 to 12NOV2004 00:00:00



cLopt_depth for 11NOV2004 00:00:00 to 12NOV2004 00:00:00



cloud_flags for 11NOV2004 00:00:00 to 12NOV2004 00:00:00



2.2.2 Nadir

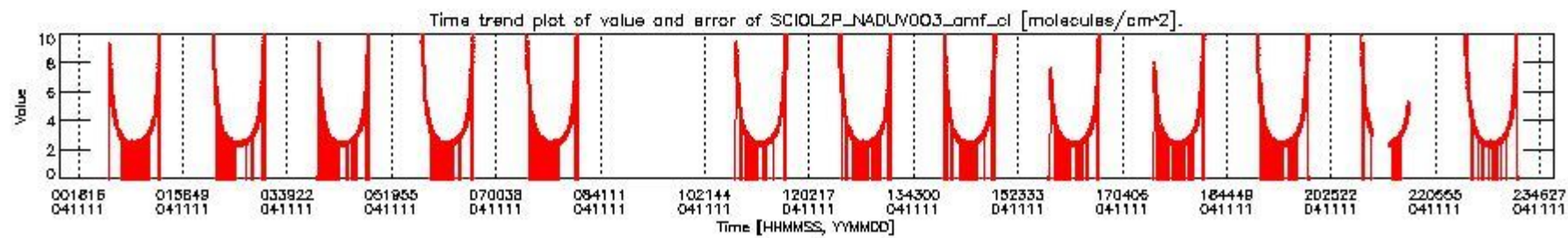
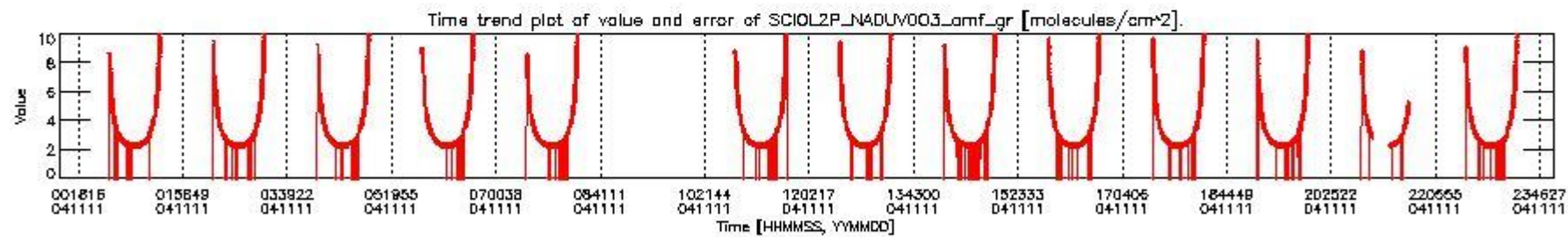
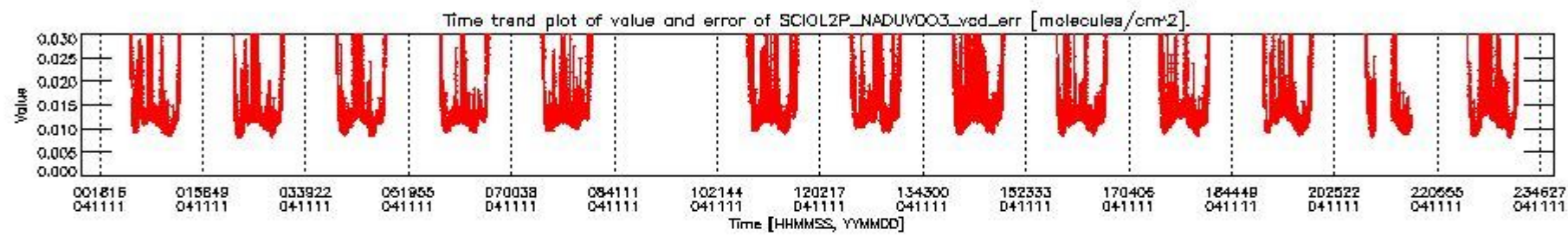
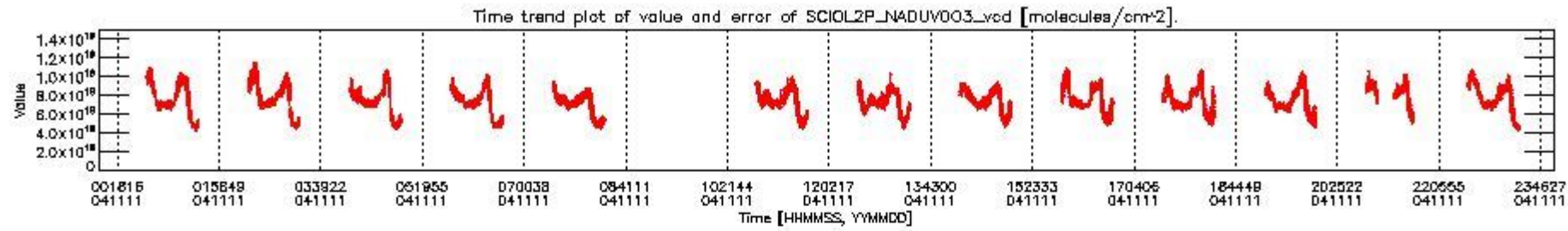
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

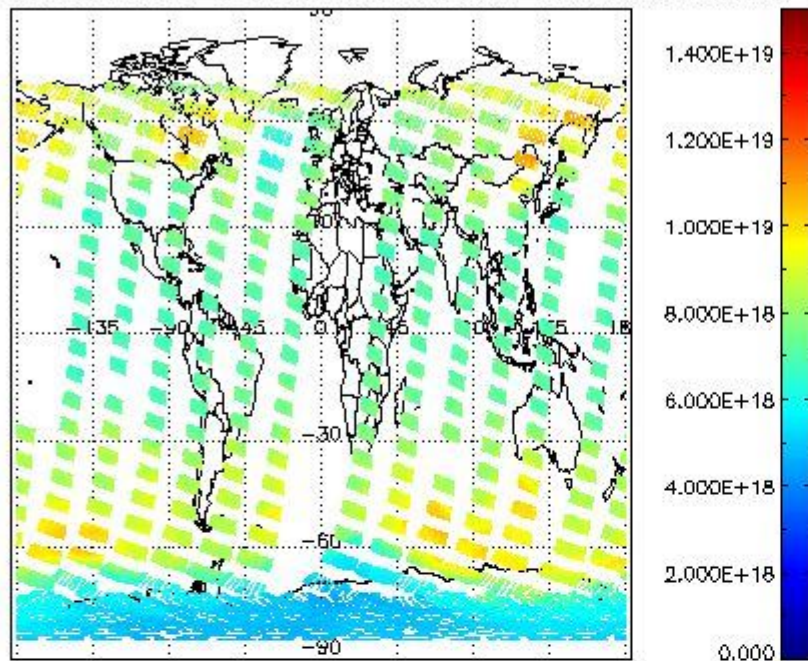
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

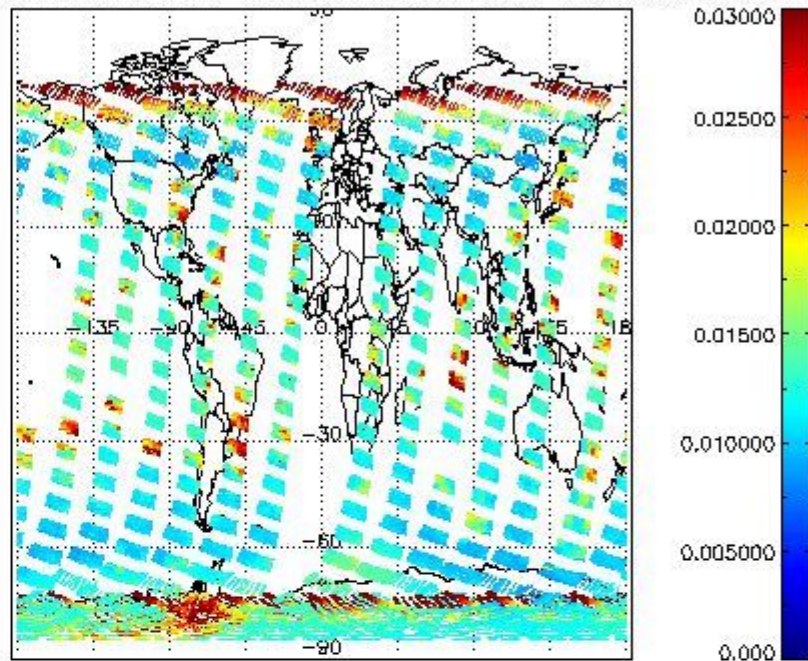
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



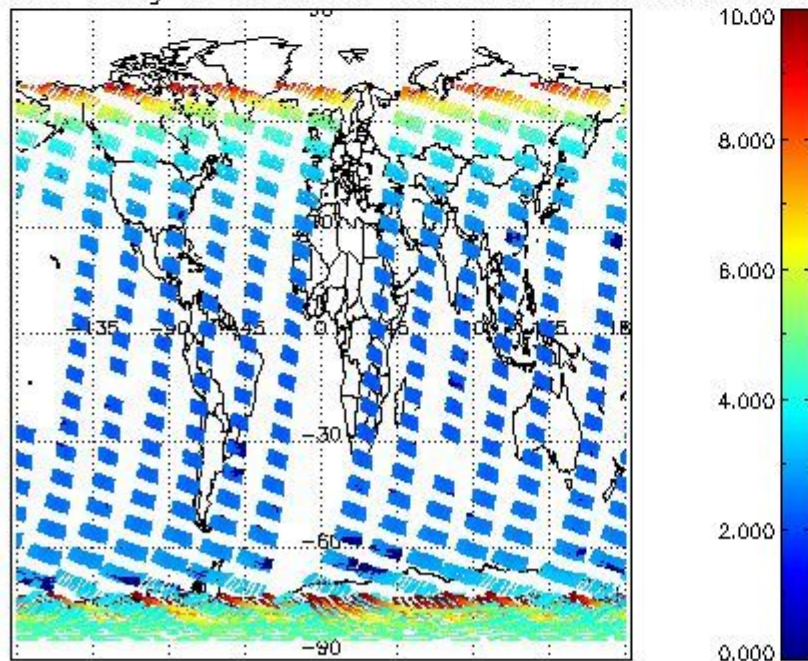
SCIOL2P_NADUV003_vcd for 11NOV2004 00:00:00 to 12NOV2004 00:00:00



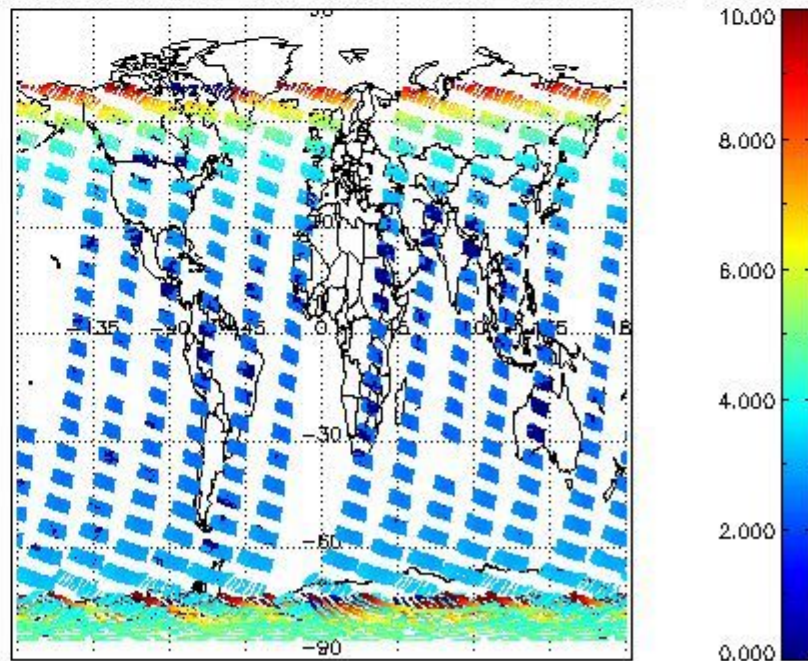
SCIOL2P_NADUV003_vcd_err for 11NOV2004 00:00:00 to 12NOV2004 00:00:00

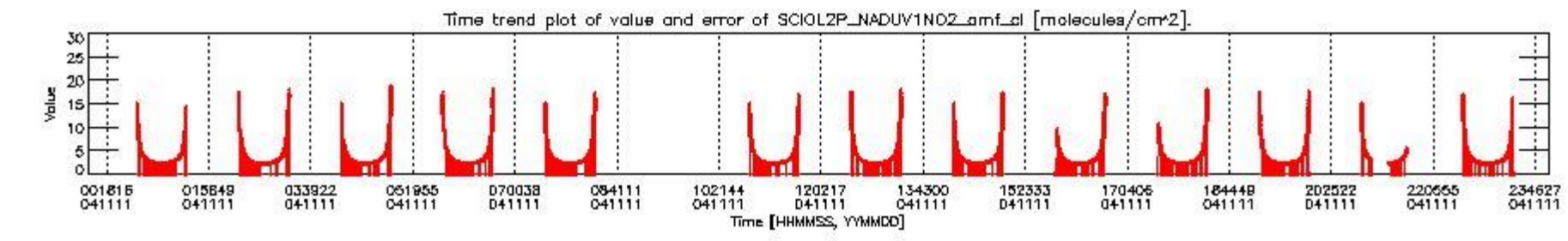
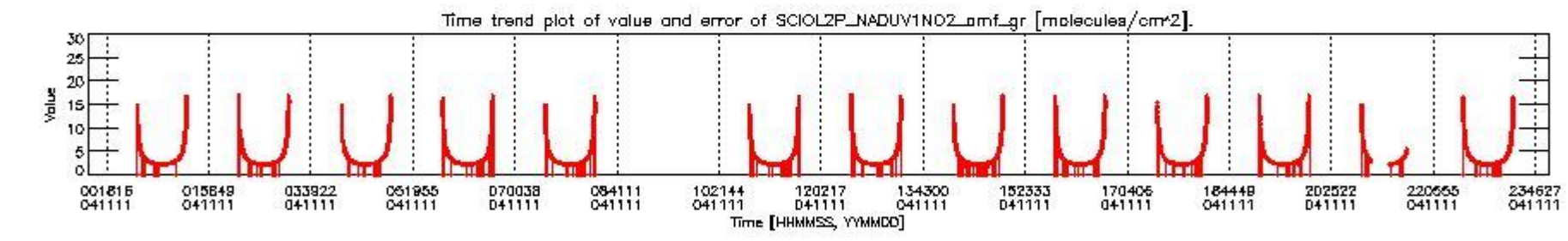
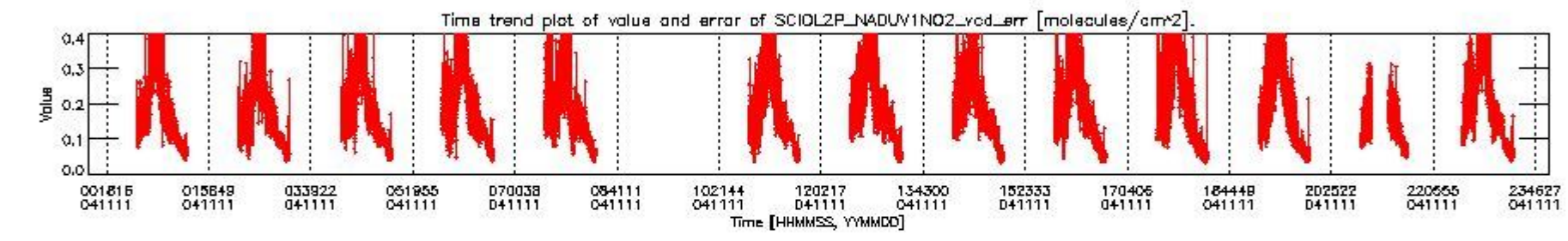
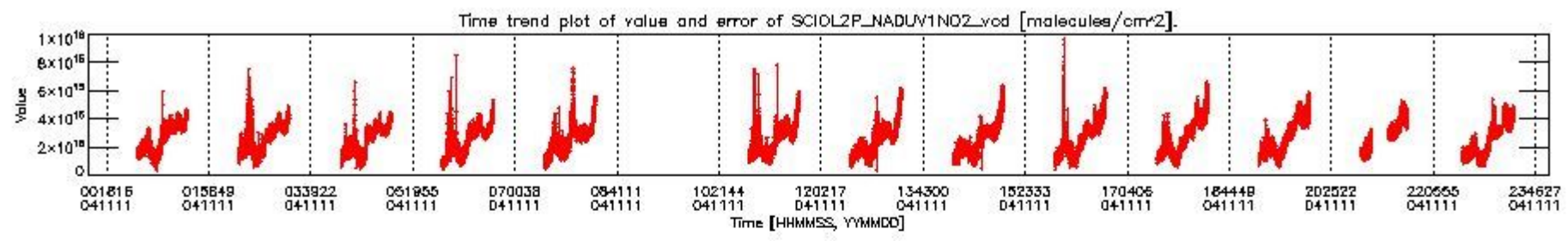


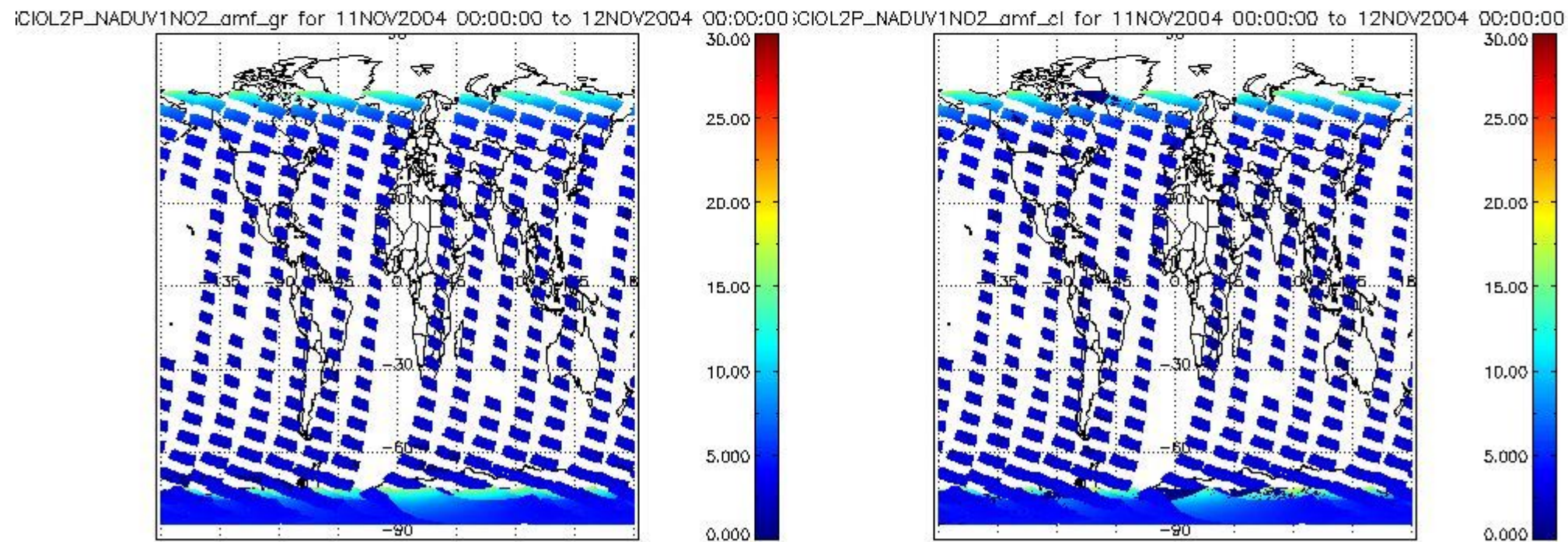
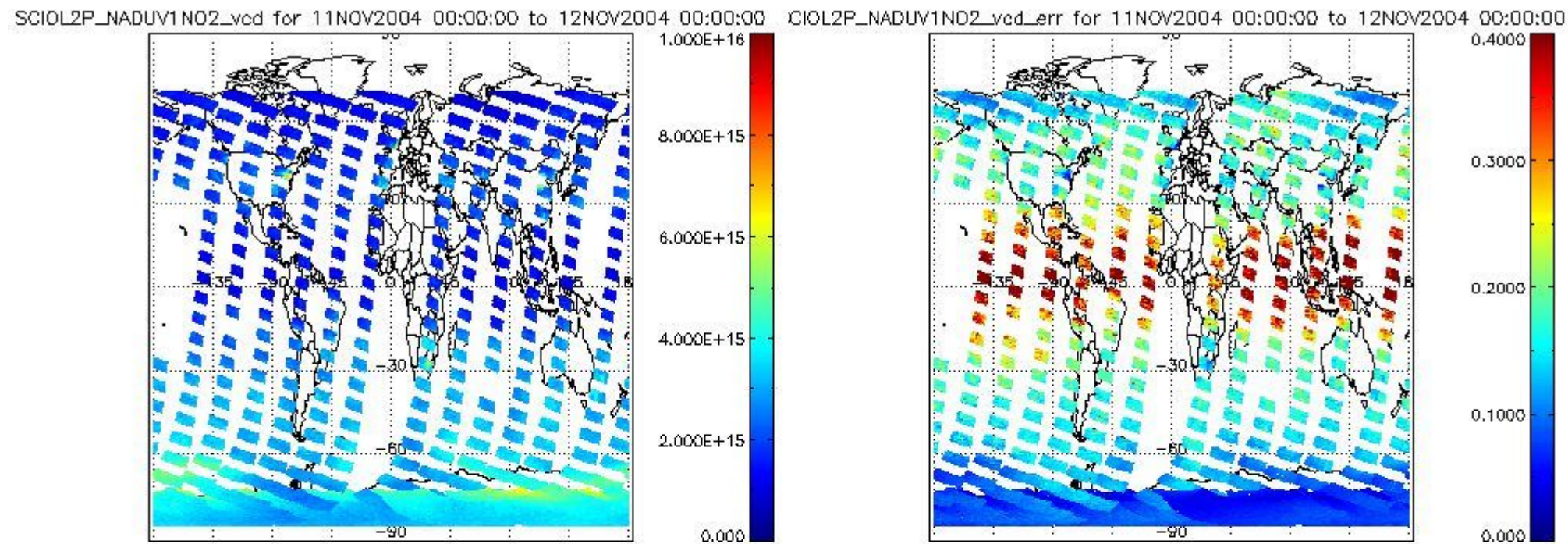
SCIOL2P_NADUV003_amf_gr for 11NOV2004 00:00:00 to 12NOV2004 00:00:00



SCIOL2P_NADUV003_amf_cl for 11NOV2004 00:00:00 to 12NOV2004 00:00:00







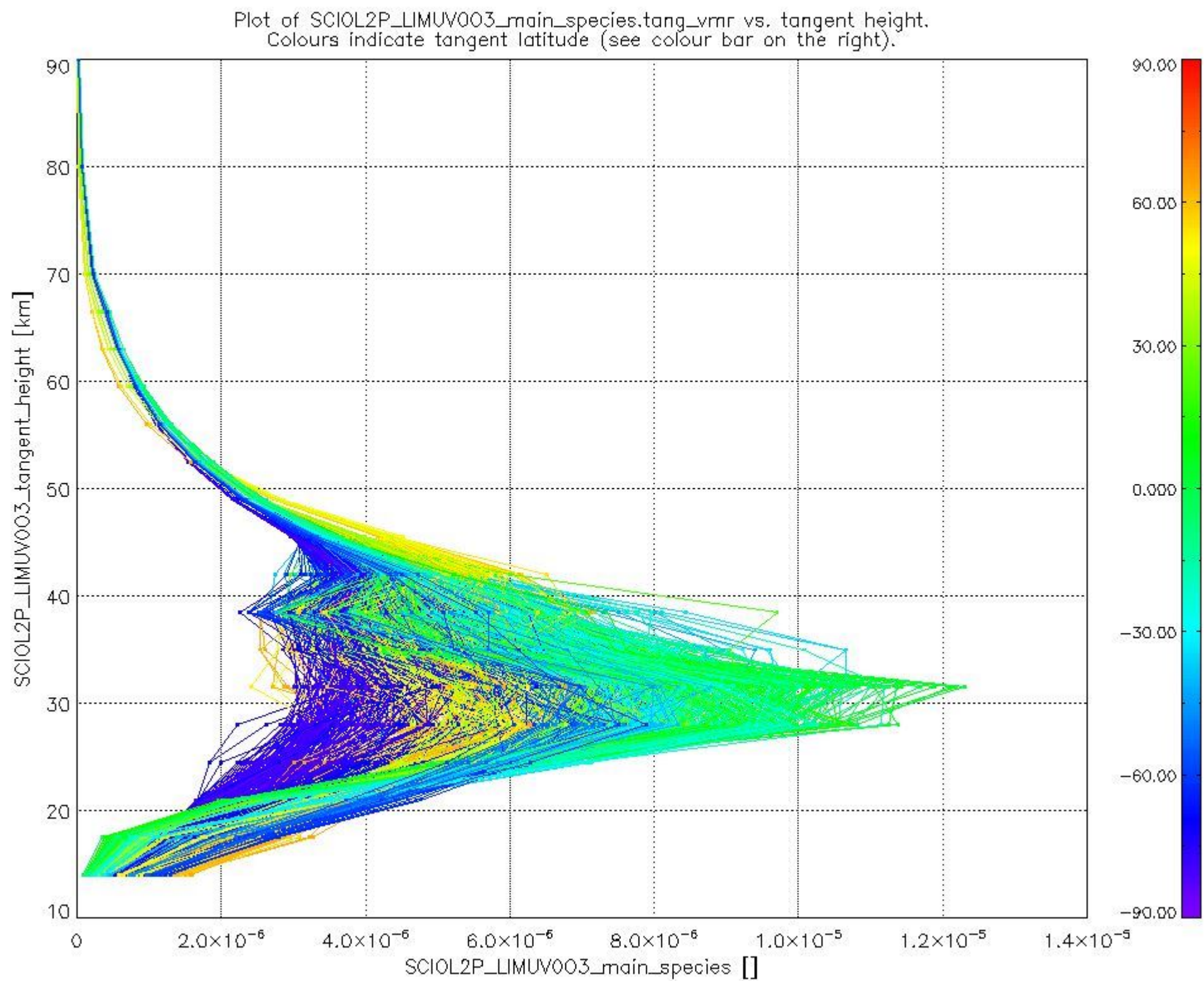
2.2.3 Limb

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

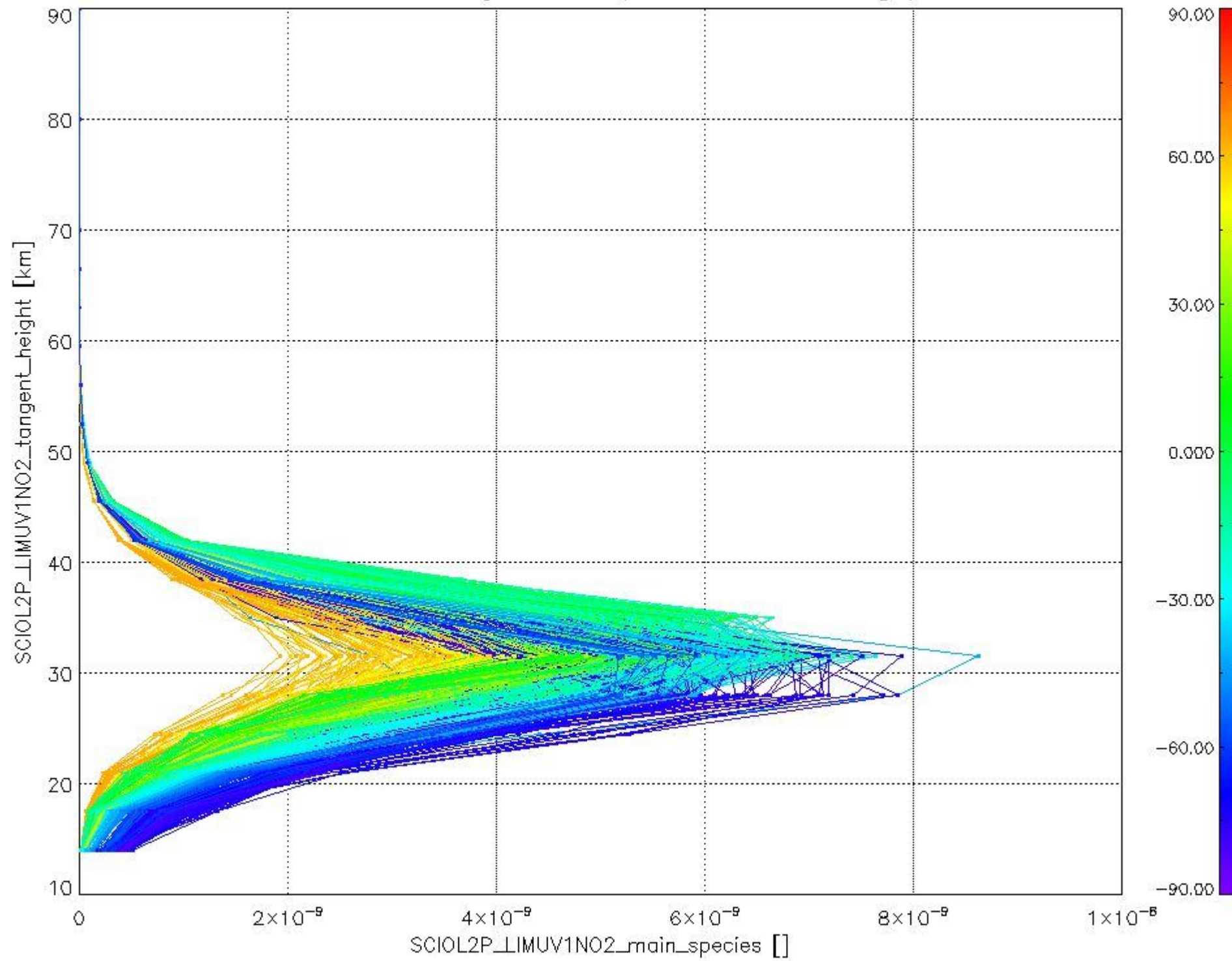
The following data items are currently included into this section:

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.



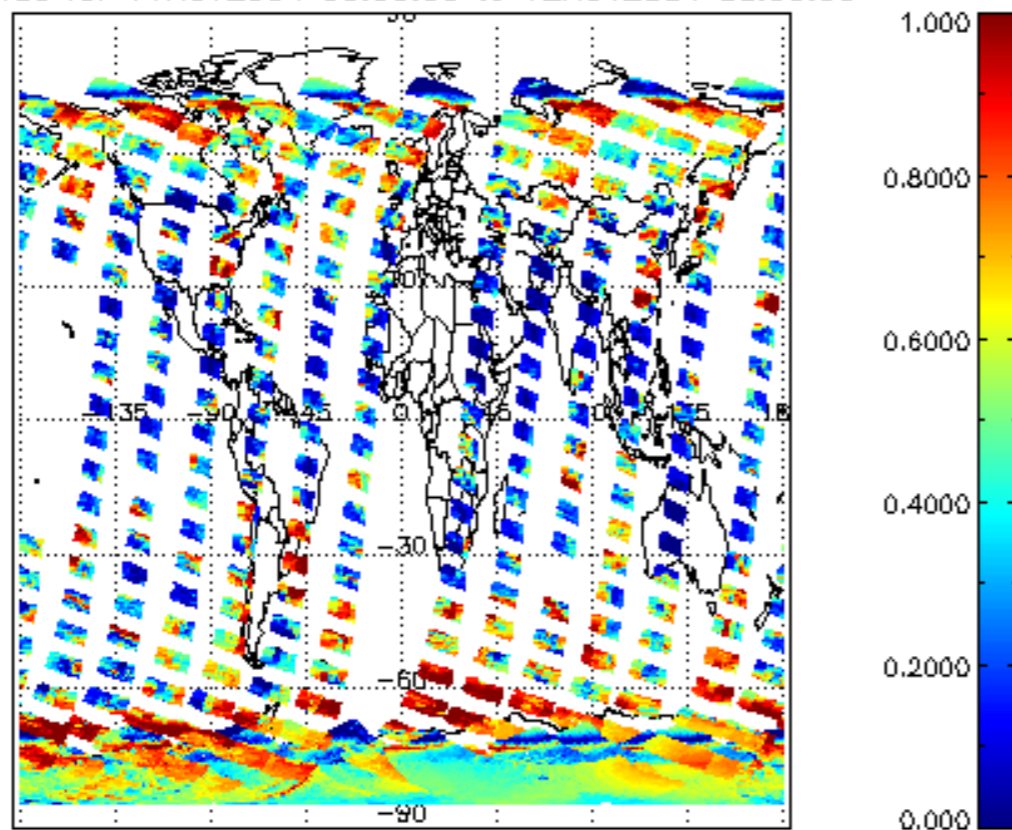
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



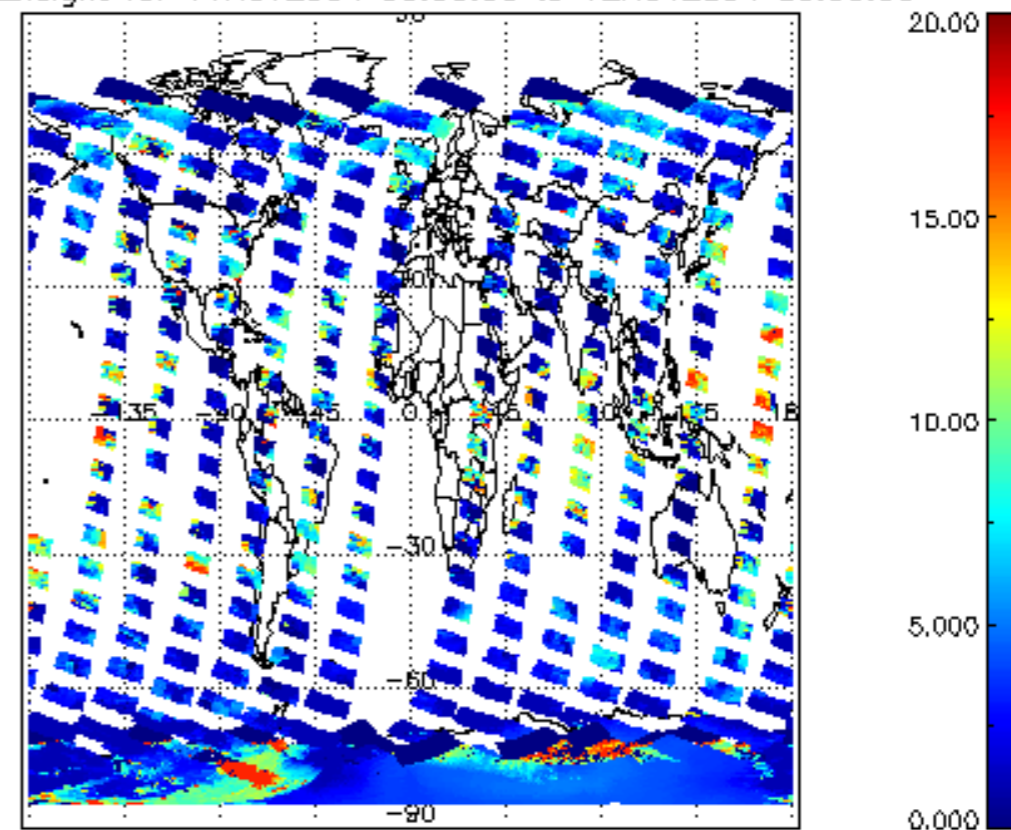
2.3 ADF monitoring

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

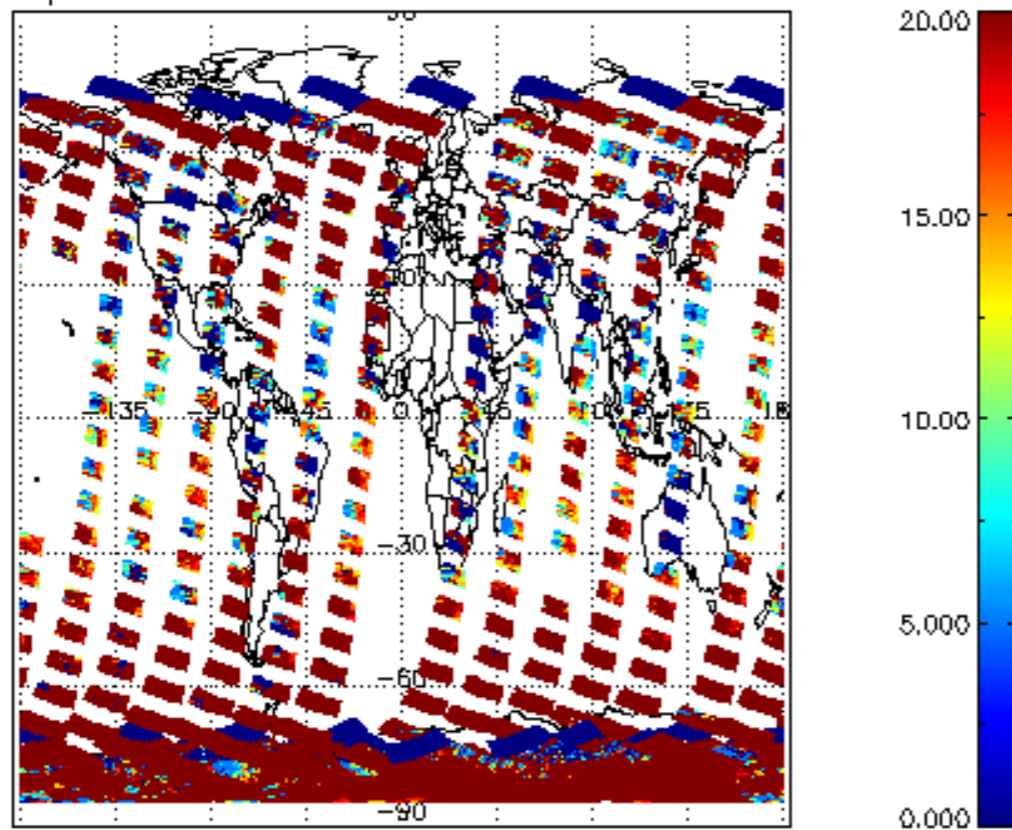
cLfrac for 11NOV2004 00:00:00 to 12NOV2004 00:00:00



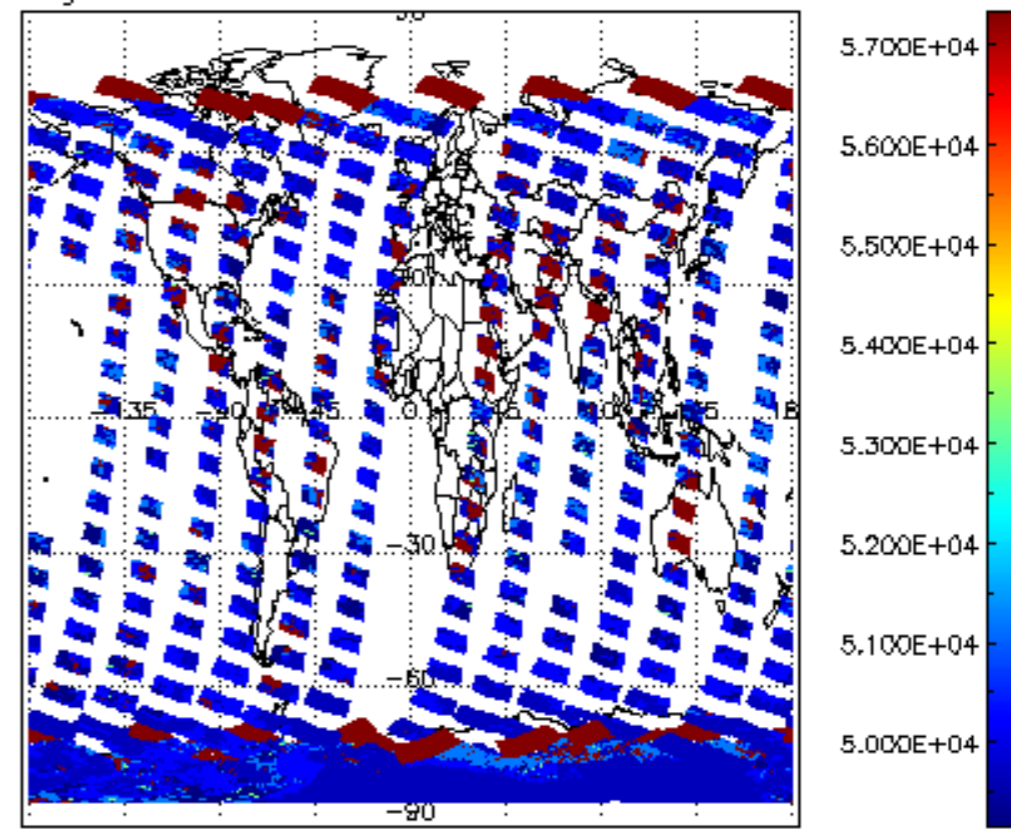
cl_top_height for 11NOV2004 00:00:00 to 12NOV2004 00:00:00

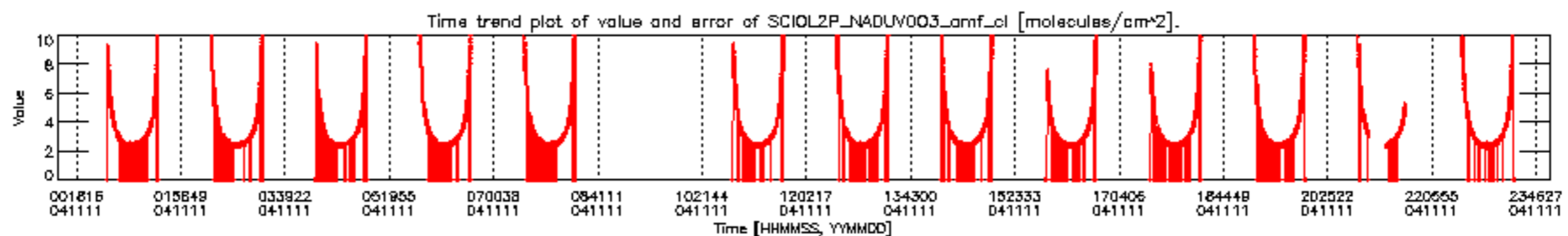
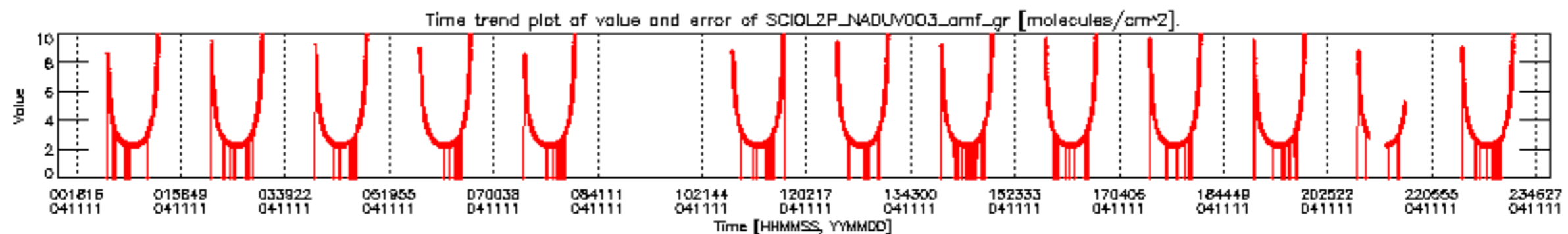
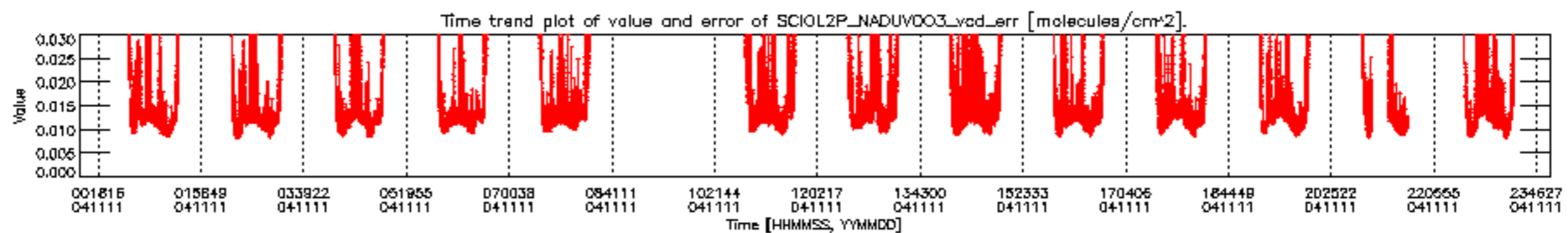
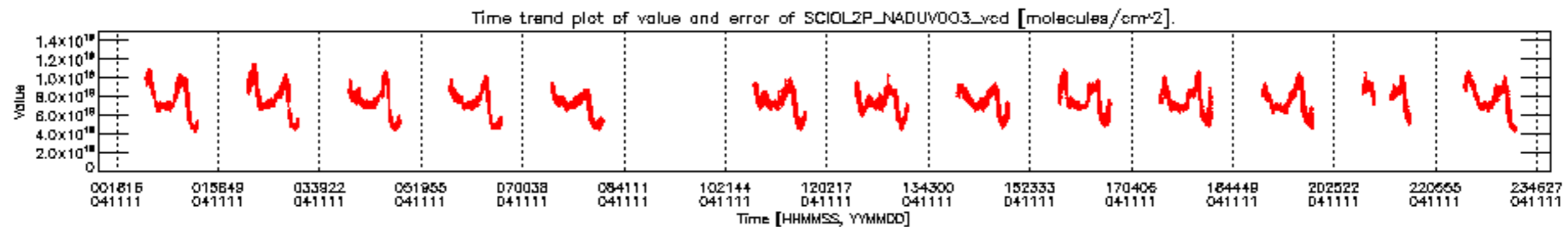


cl_opt_depth for 11NOV2004 00:00:00 to 12NOV2004 00:00:00

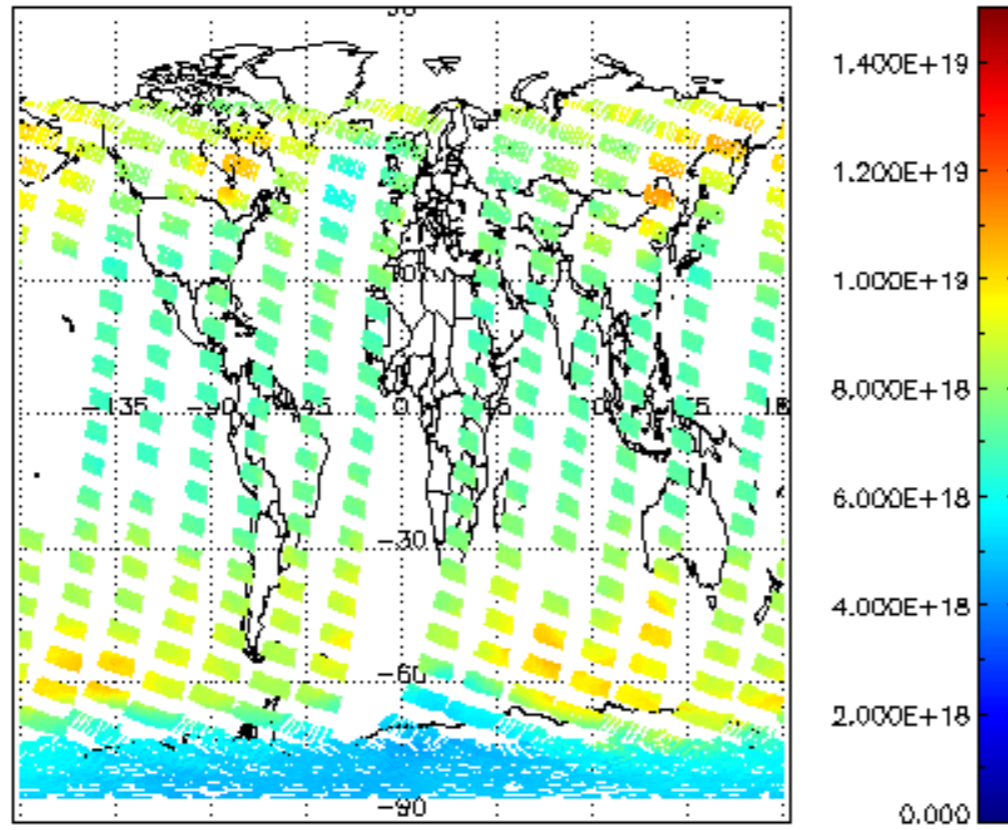


cloud_flags for 11NOV2004 00:00:00 to 12NOV2004 00:00:00

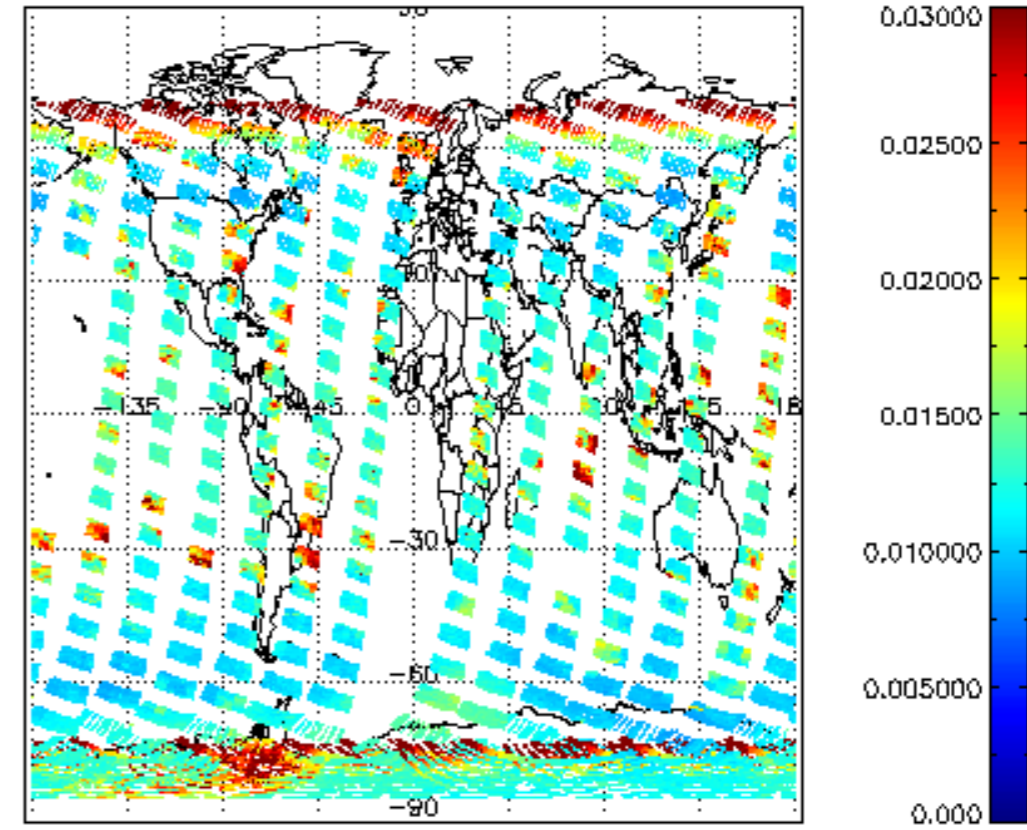




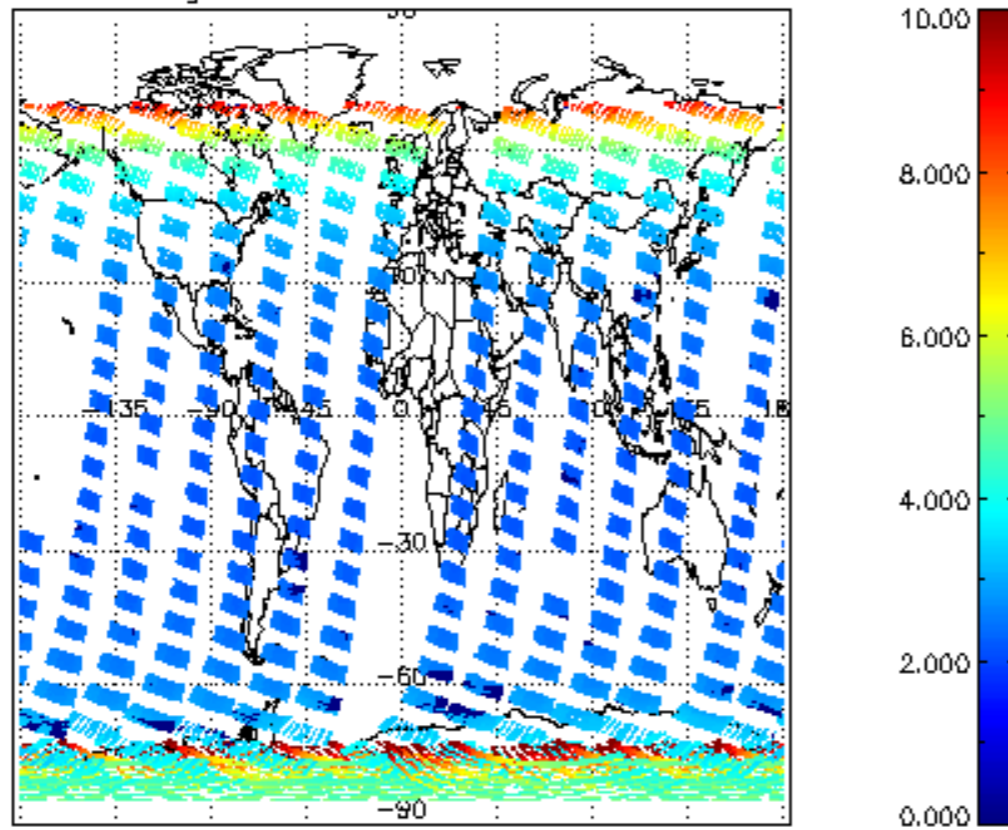
SCIOL2P_NADUV003_vcd for 11NOV2004 00:00:00 to 12NOV2004 00:00:00



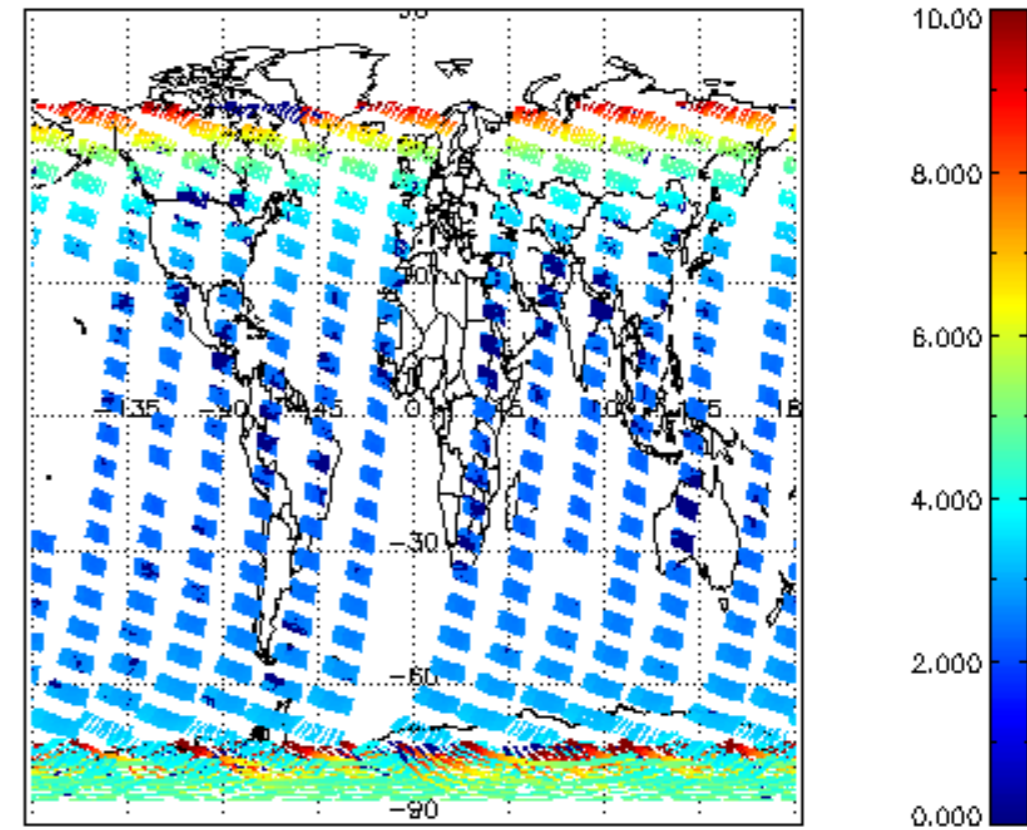
SCIOL2P_NADUV003_vcd_err for 11NOV2004 00:00:00 to 12NOV2004 00:00:00

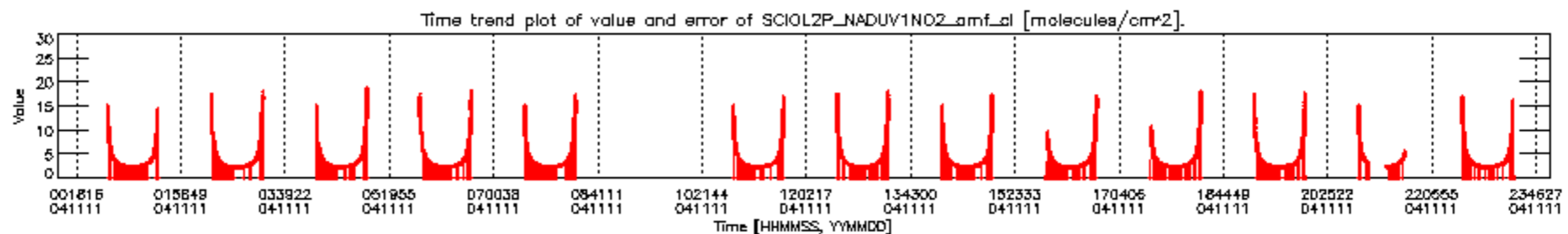
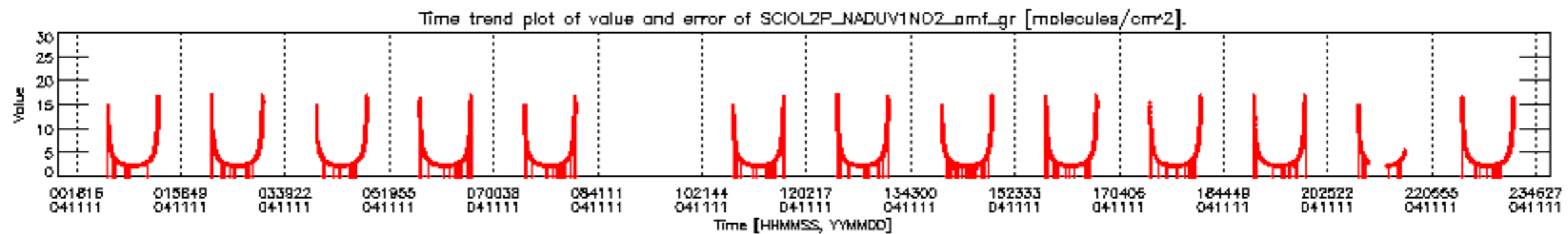
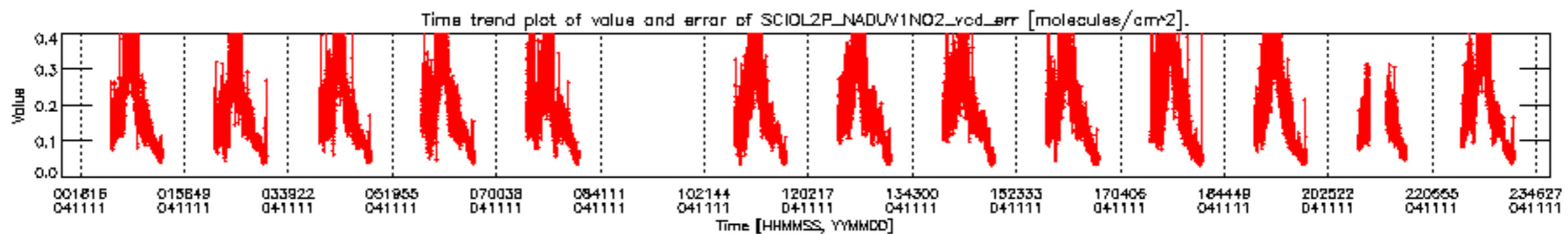
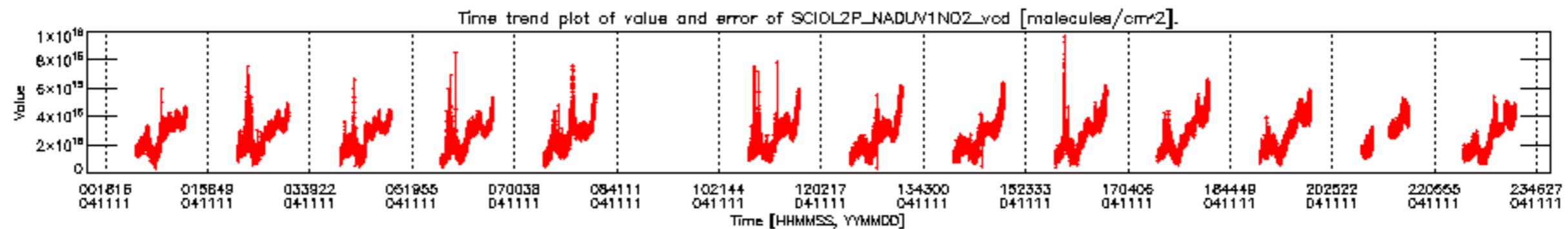


SCIOL2P_NADUV003_amf_gr for 11NOV2004 00:00:00 to 12NOV2004 00:00:00

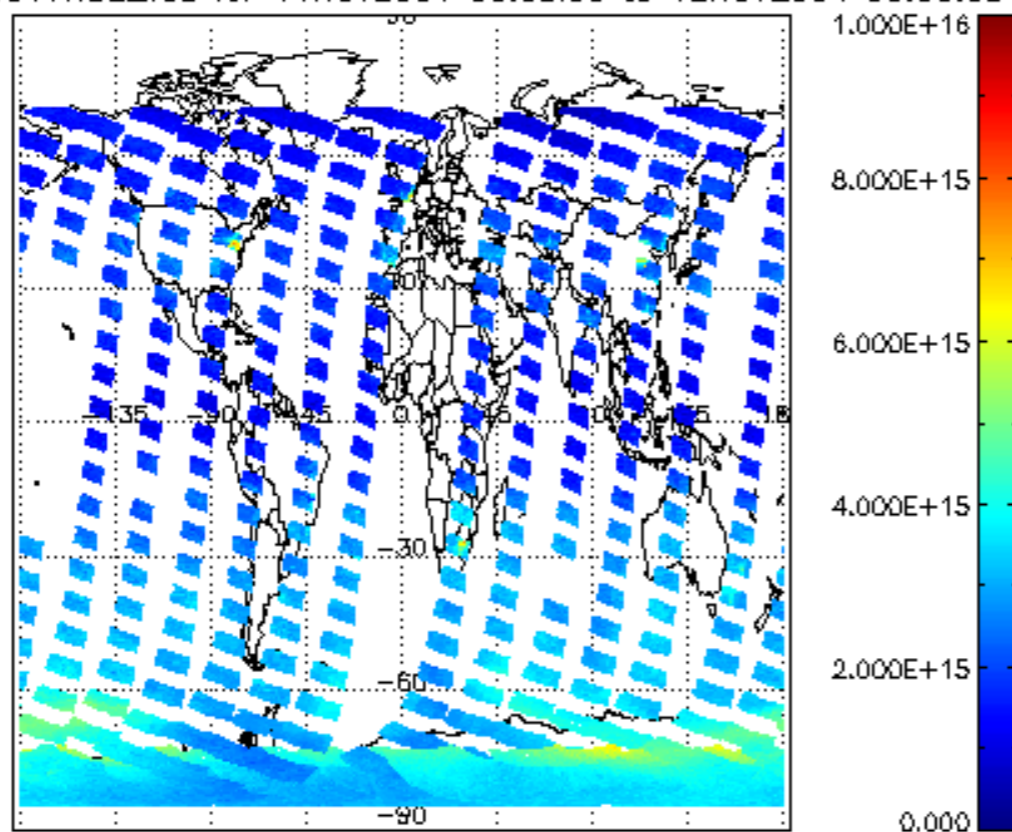


SCIOL2P_NADUV003_amf_cl for 11NOV2004 00:00:00 to 12NOV2004 00:00:00

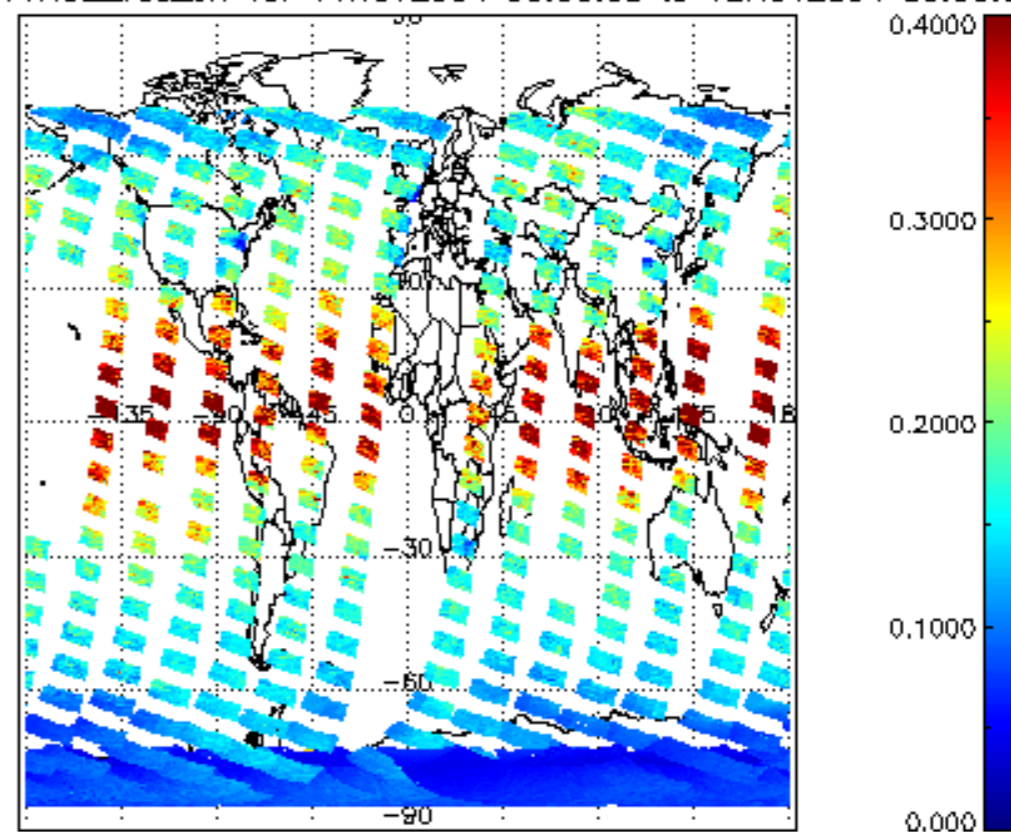




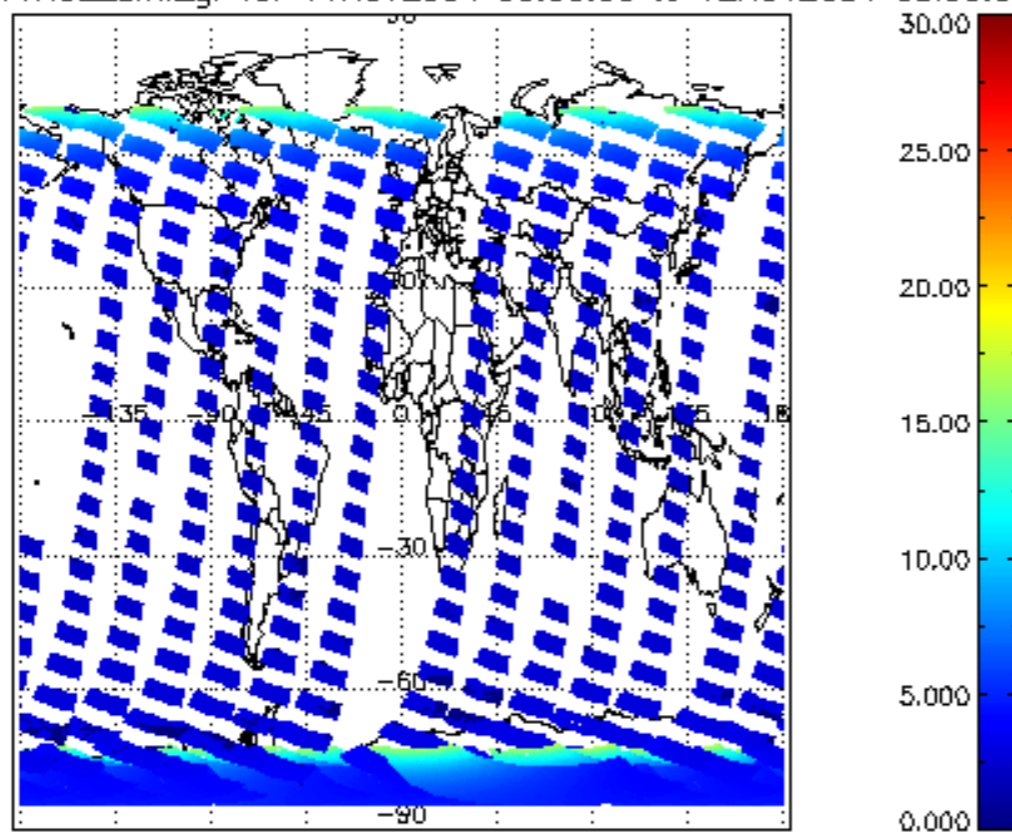
SCIOL2P_NADUV1NO2_vcd for 11NOV2004 00:00:00 to 12NOV2004 00:00:00



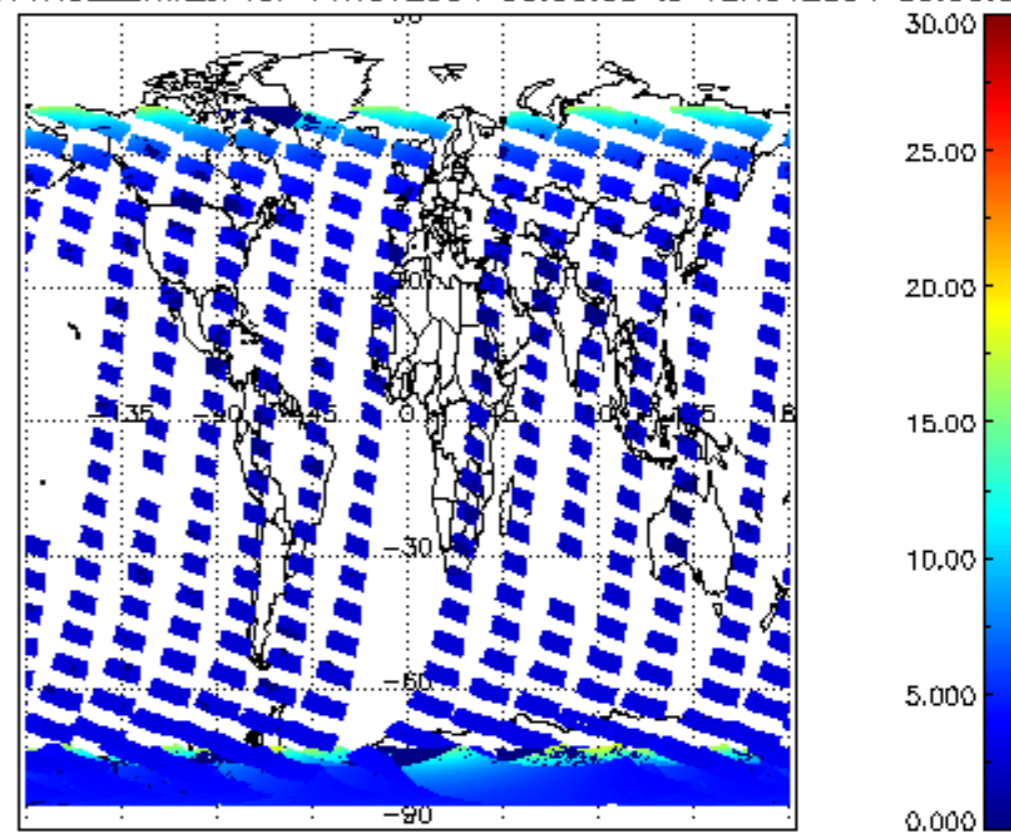
SCIOL2P_NADUV1NO2_vcd_err for 11NOV2004 00:00:00 to 12NOV2004 00:00:00



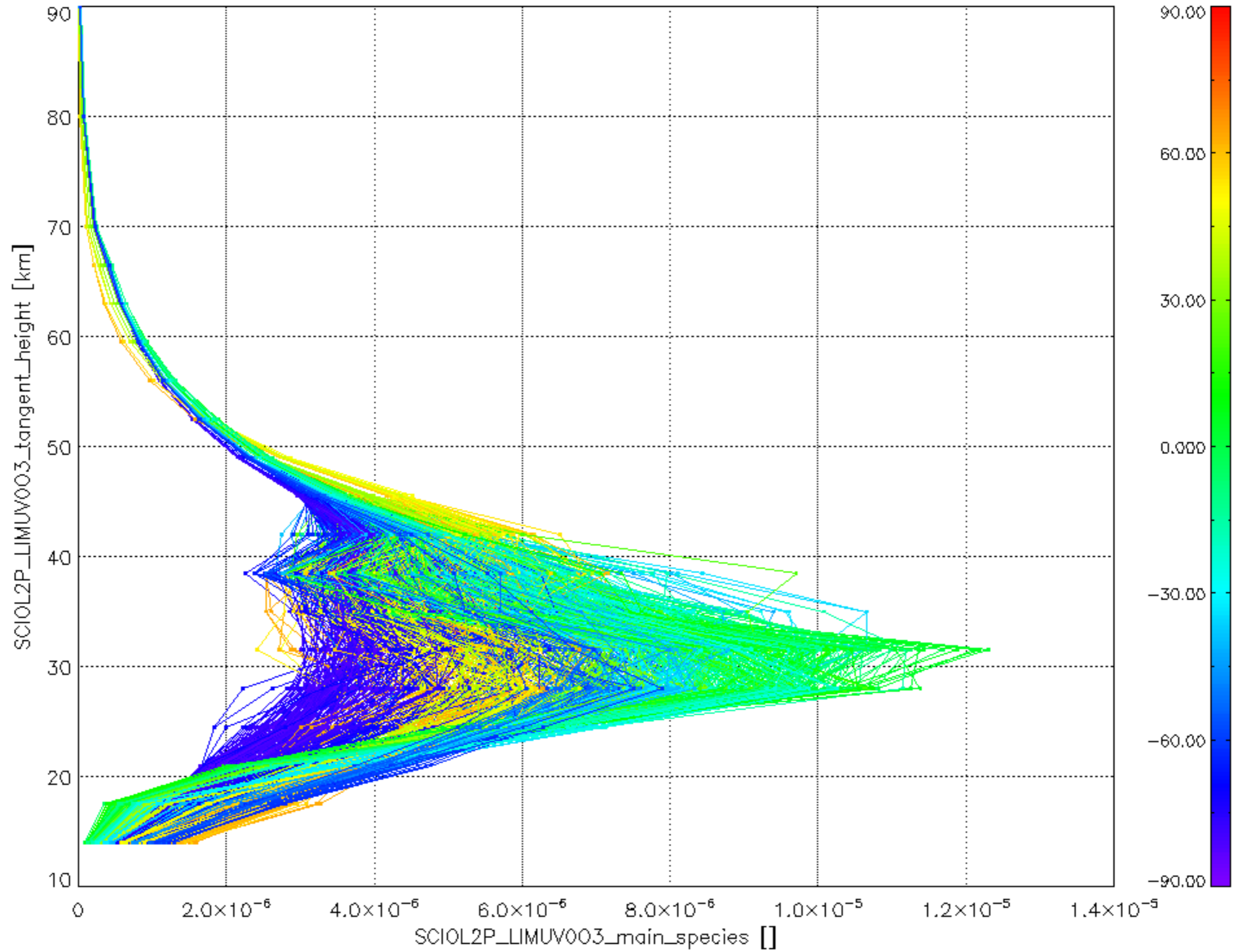
SCIOL2P_NADUV1NO2_amf_gr for 11NOV2004 00:00:00 to 12NOV2004 00:00:00



SCIOL2P_NADUV1NO2_amf_cl for 11NOV2004 00:00:00 to 12NOV2004 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).

