

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 19:26:30
Data source version	SCIA-OL/3.01-R
Processing scope for products	23NOV2004 00:00:00 to 24NOV2004 00:00:00
Start time of first product within scope	23NOV2004 02:46:34
Stop time of last product within scope	23NOV2004 23:49:14
Total number of level 2 products	13
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__2PRDPA20041123_024634_000033252032_00204_14286_0698.N1	23NOV2004 02:46:34	23NOV2004 03:42:00	0	GOOD
1	SCI_OL__2PRDPA20041123_042710_000033812032_00205_14287_0711.N1	23NOV2004 04:27:10	23NOV2004 05:23:32	0	GOOD
2	SCI_OL__2PRDPA20041123_060746_000033252032_00206_14288_0641.N1	23NOV2004 06:07:46	23NOV2004 07:03:12	0	GOOD
3	SCI_OL__2PRDPA20041123_074823_000033812032_00207_14289_0625.N1	23NOV2004 07:48:23	23NOV2004 08:44:44	0	GOOD
4	SCI_OL__2PRDPA20041123_092859_000033252032_00208_14290_0710.N1	23NOV2004 09:28:59	23NOV2004 10:24:24	0	GOOD
5	SCI_OL__2PRDPA20041123_110935_000033812032_00209_14291_0720.N1	23NOV2004 11:09:35	23NOV2004 12:05:56	0	GOOD
6	SCI_OL__2PRDPA20041123_125011_000033252032_00210_14292_0703.N1	23NOV2004 12:50:11	23NOV2004 13:45:37	0	GOOD
7	SCI_OL__2PRDPA20041123_143047_000033812032_00211_14293_0721.N1	23NOV2004 14:30:47	23NOV2004 15:27:09	0	GOOD
8	SCI_OL__2PRDPA20041123_161124_000033252032_00212_14294_0618.N1	23NOV2004 16:11:24	23NOV2004 17:06:49	0	GOOD
9	SCI_OL__2PRDPA20041123_175154_000033632032_00213_14295_0685.N1	23NOV2004 17:51:54	23NOV2004 18:47:57	0	GOOD
10	SCI_OL__2PRDPA20041123_193257_000033252032_00214_14296_0644.N1	23NOV2004 19:32:57	23NOV2004 20:28:23	0	GOOD
11	SCI_OL__2PRDPA20041123_211312_000033812032_00215_14297_0765.N1	23NOV2004 21:13:12	23NOV2004 22:09:34	0	GOOD
12	SCI_OL__2PRDPA20041123_225348_000033252032_00216_14298_0665.N1	23NOV2004 22:53:48	23NOV2004 23:49:14	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: 135460

Total number of cloud data DSRs with good quality flag (=0): 135460 (100.0 %)

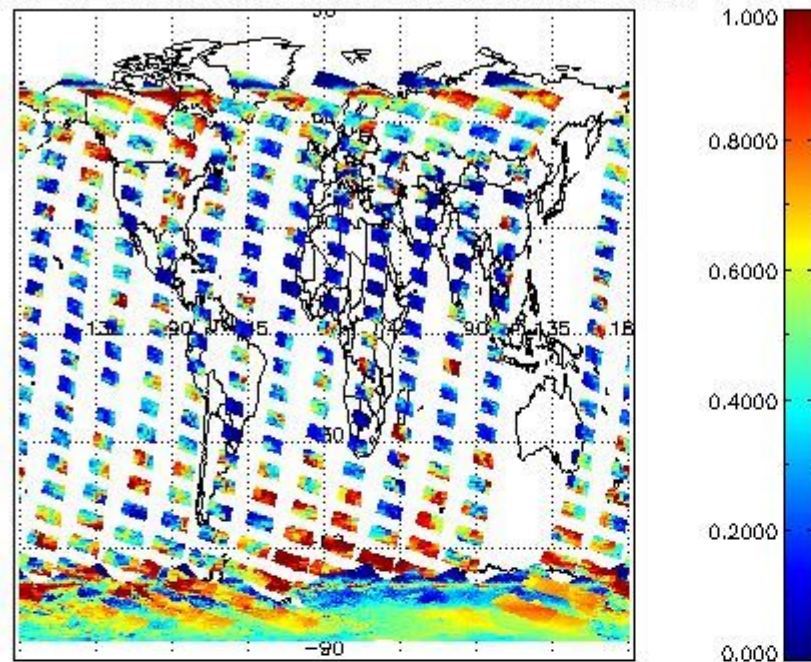
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	135460	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	135460	0.17035	0.12500	0.12500	0.25000	0.060100	s
CL_FRAC	135460	0.43299	0.42841	0.0000	1.0000	0.27753	-
CL_FRAC_ERR	135460	0.0000	0.0000	0.0000	0.0000	0.0000	rel. fraction
PMD_READ	135460	5.4511	4.0000	4.0000	8.0000	1.9232	
PMD_READ_CL[0]	135460	0.32891	0.0000	0.0000	8.0000	1.3231	-
PMD_READ_CL[1]	135460	0.38274	0.0000	0.0000	8.0000	1.2855	-
CL_TOP_HEIGHT	115884	4.4023	3.3186	0.0000	17.000	3.8670	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	115884	52.984	38.260	0.0000	101.00	40.344	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	135460	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	135460	11001000	11000100	11000000	11100000	2975.0	flags
AERO_ABSO_IND	135460	0.75650	0.53154	-4.1756	11.053	1.0814	
AERO_IND_DIAG	135460	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	135460	01010111	00000000	00000000	11000000	24485.	flags

Time and geolocation plots:

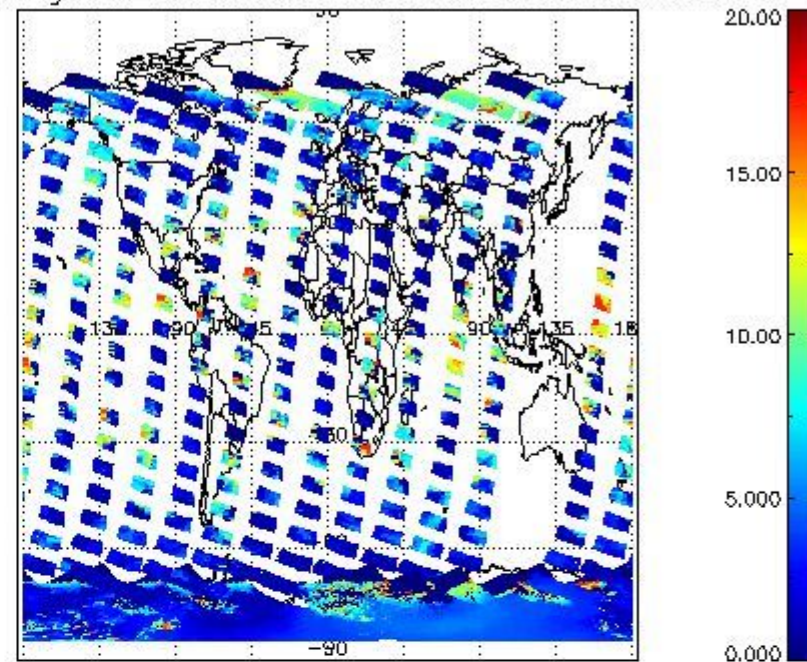
Plots are available for the following parameters:

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

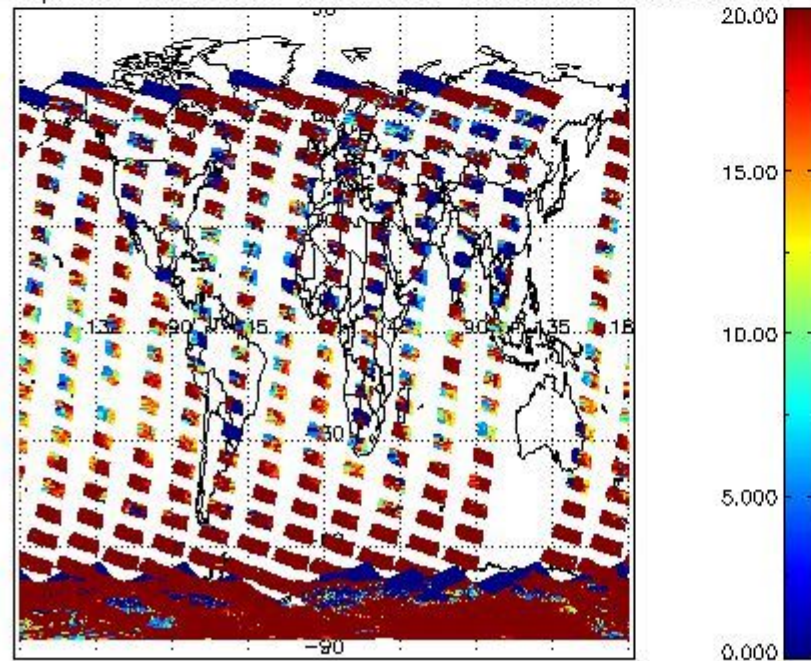
cLfrac for 23NOV2004 00:00:00 to 24NOV2004 00:00:00



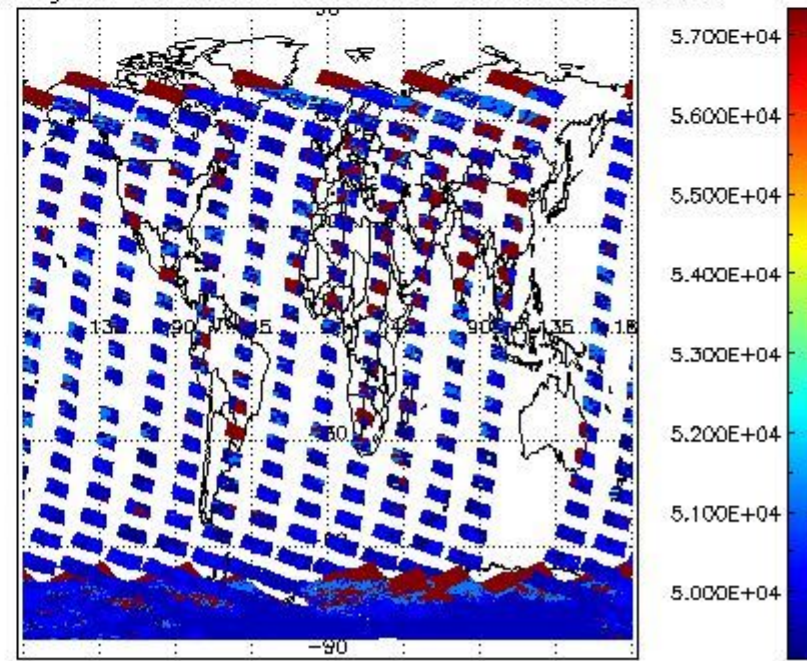
cL_top_height for 23NOV2004 00:00:00 to 24NOV2004 00:00:00



cLopt_depth for 23NOV2004 00:00:00 to 24NOV2004 00:00:00



cloud_flags for 23NOV2004 00:00:00 to 24NOV2004 00:00:00



2.2.2 Nadir

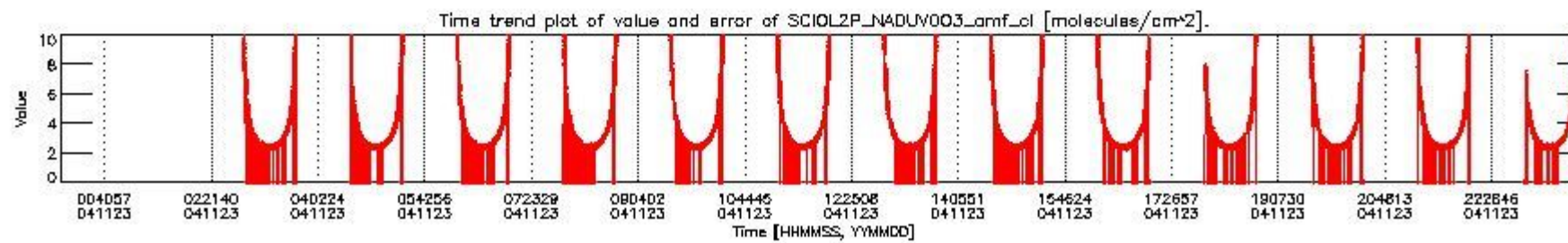
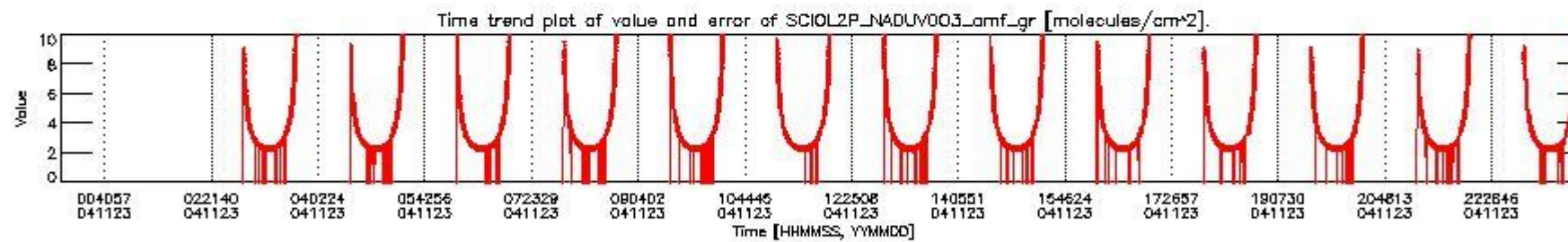
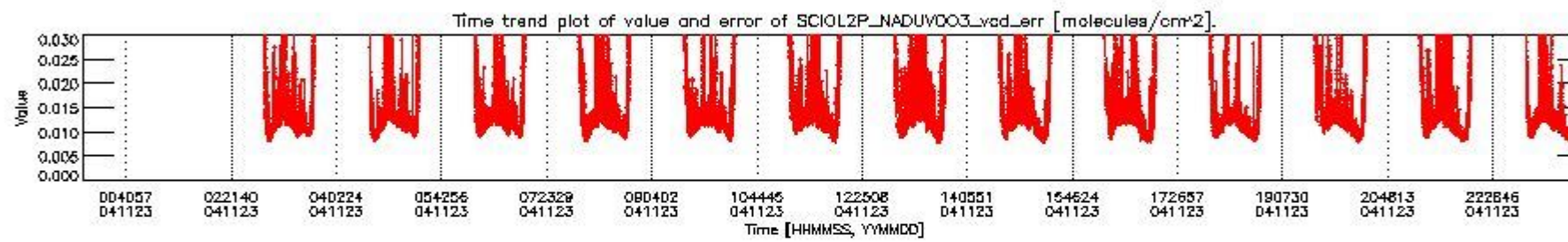
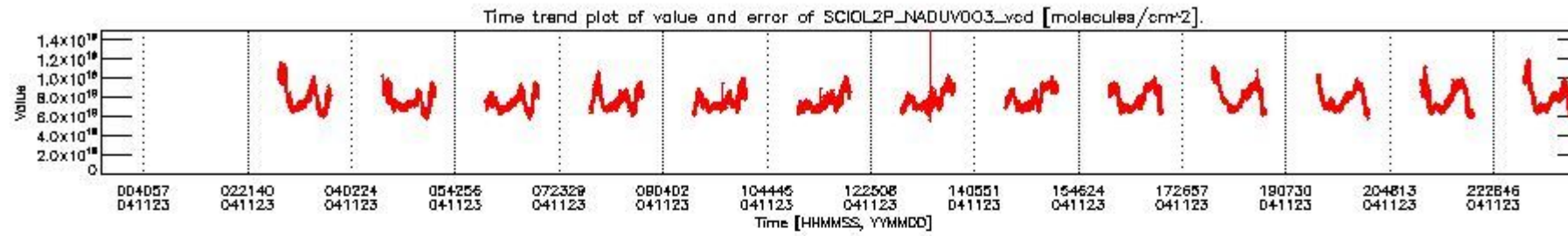
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

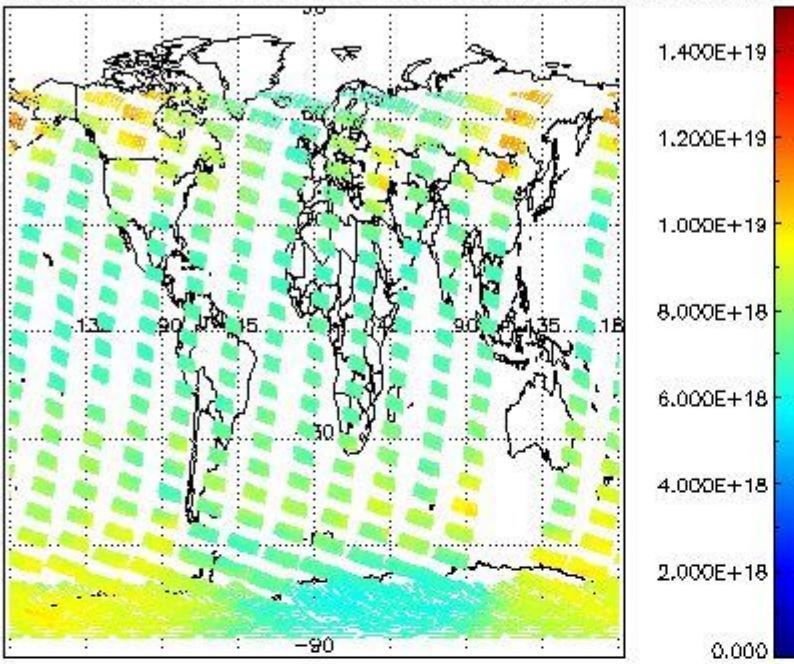
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

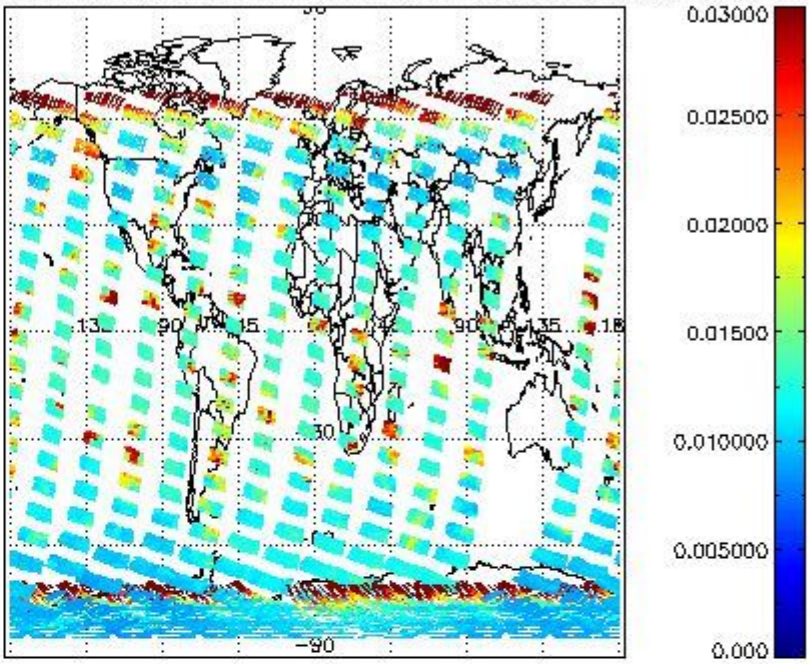
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



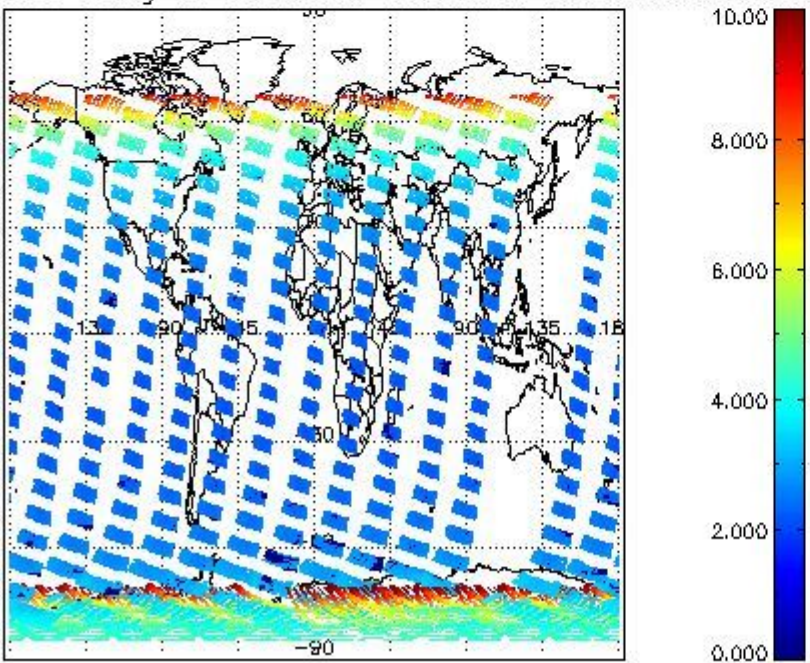
SCIOL2P_NADUV003_vcd for 23NOV2004 00:00:00 to 24NOV2004 00:00:00



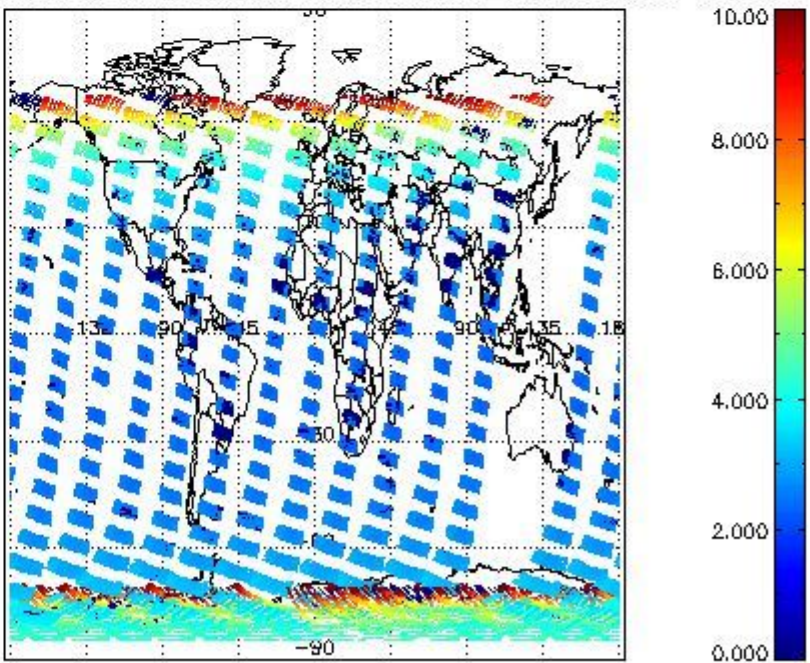
SCIOL2P_NADUV003_vcd_err for 23NOV2004 00:00:00 to 24NOV2004 00:00:00

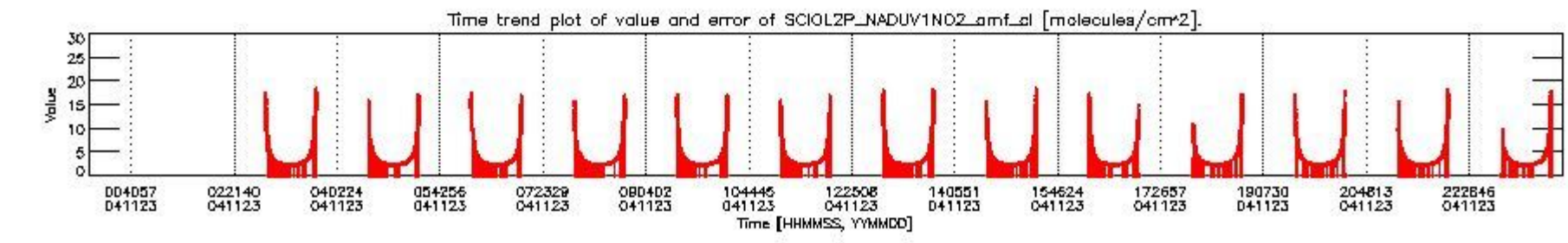
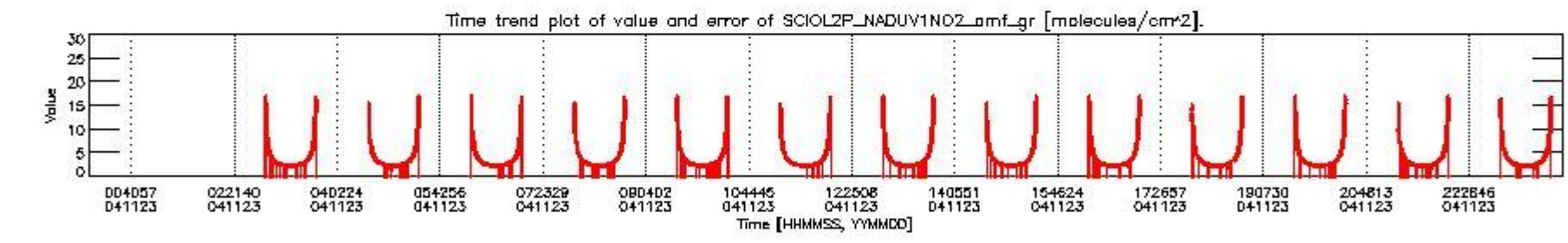
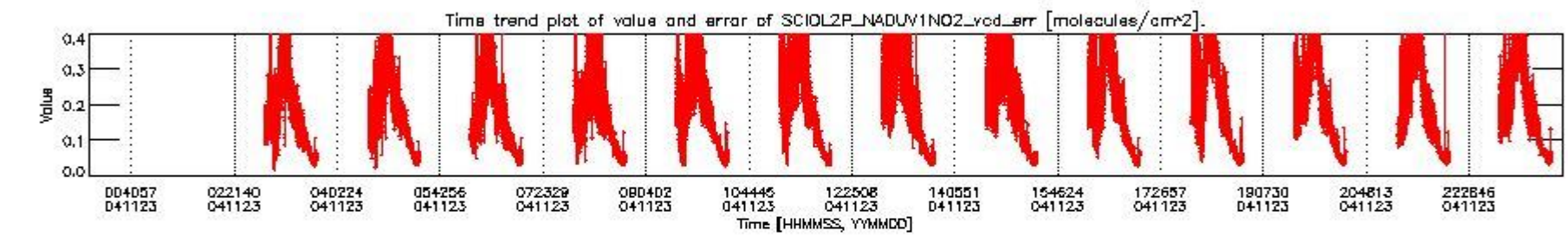
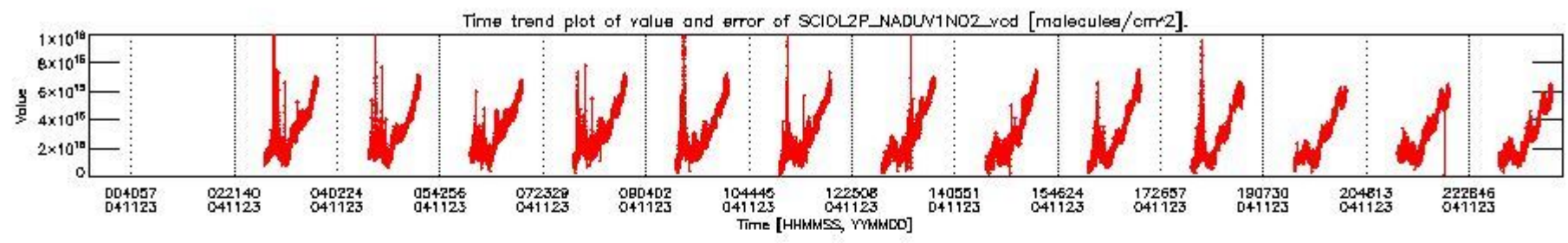


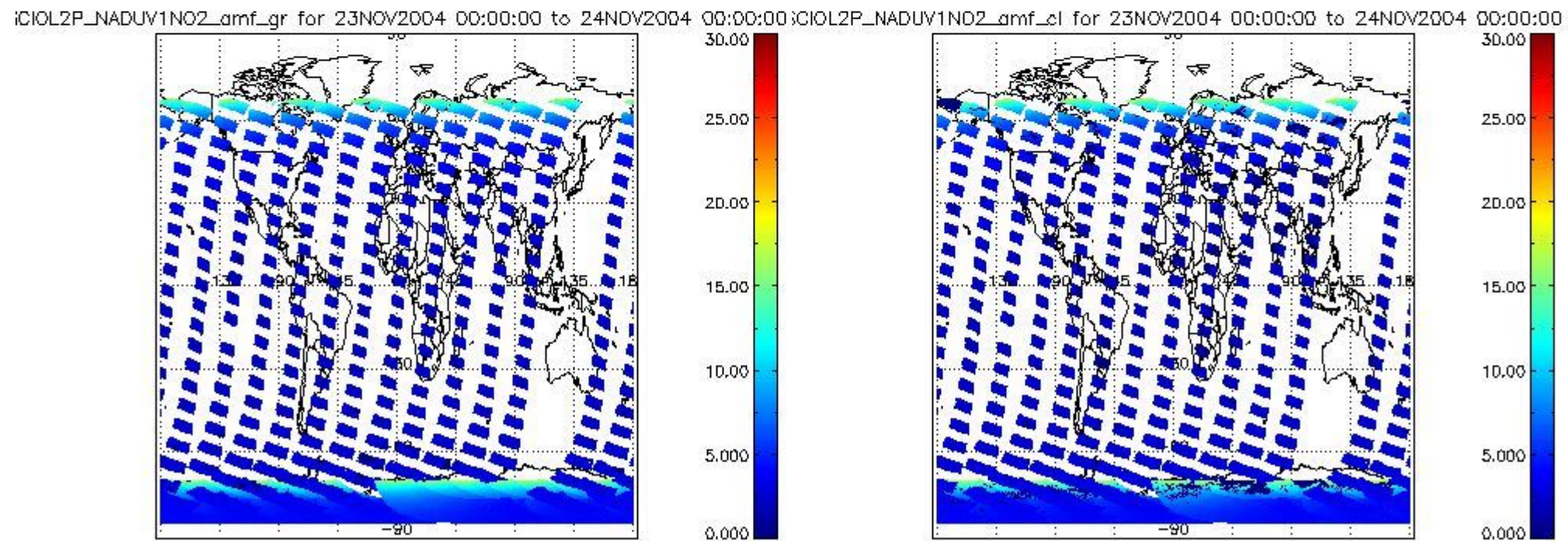
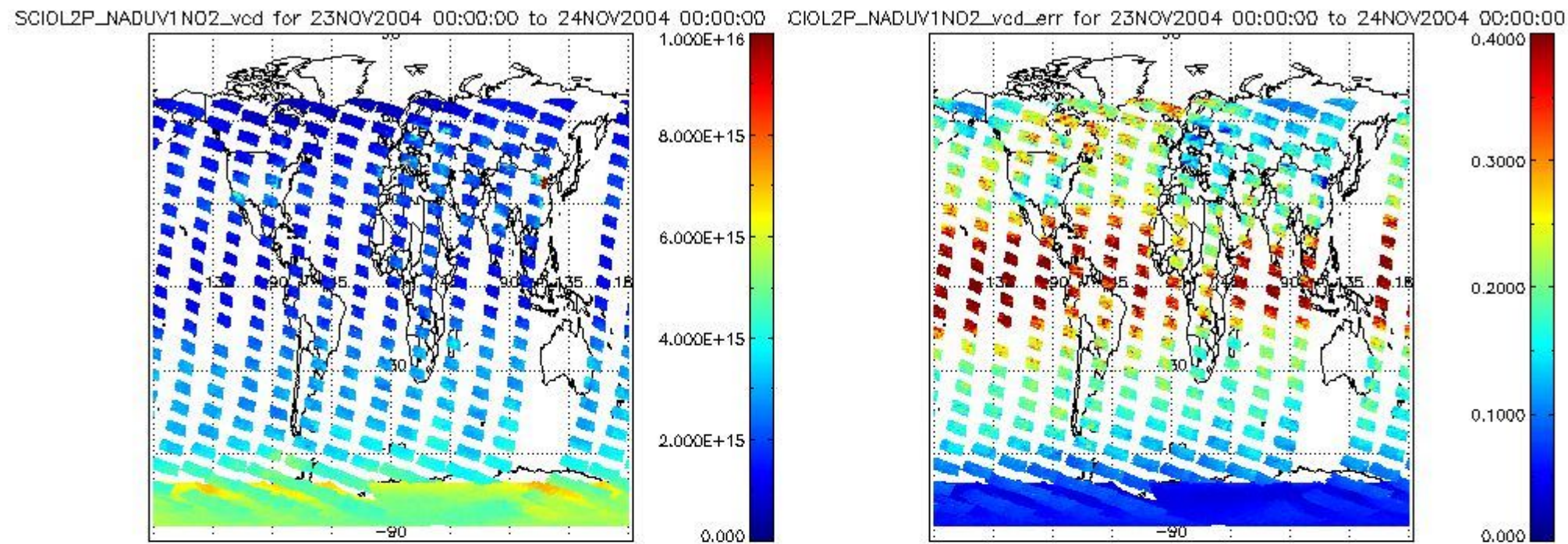
SCIOL2P_NADUV003_amf_gr for 23NOV2004 00:00:00 to 24NOV2004 00:00:00



SCIOL2P_NADUV003_amf_cl for 23NOV2004 00:00:00 to 24NOV2004 00:00:00







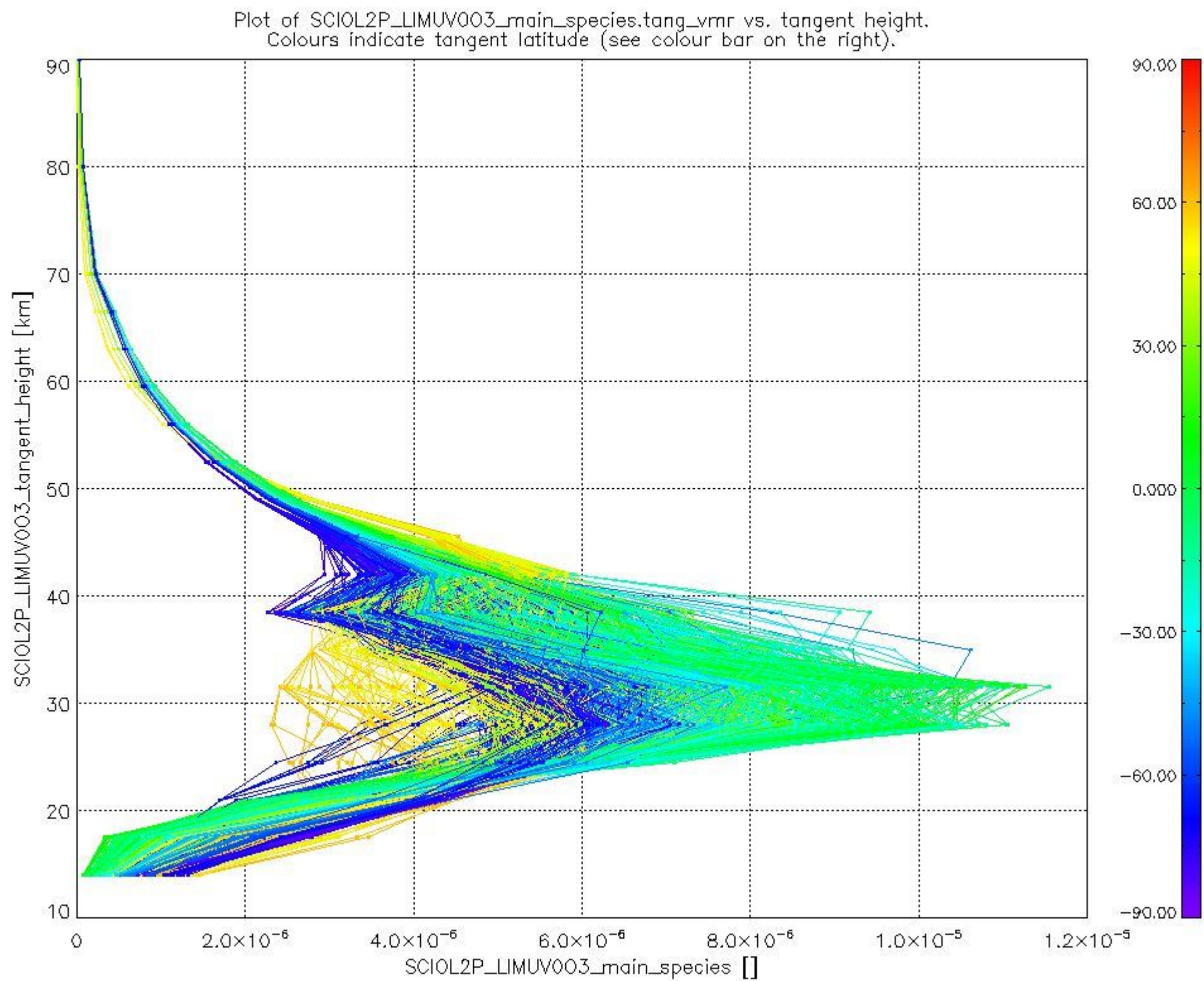
2.2.3 Limb

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

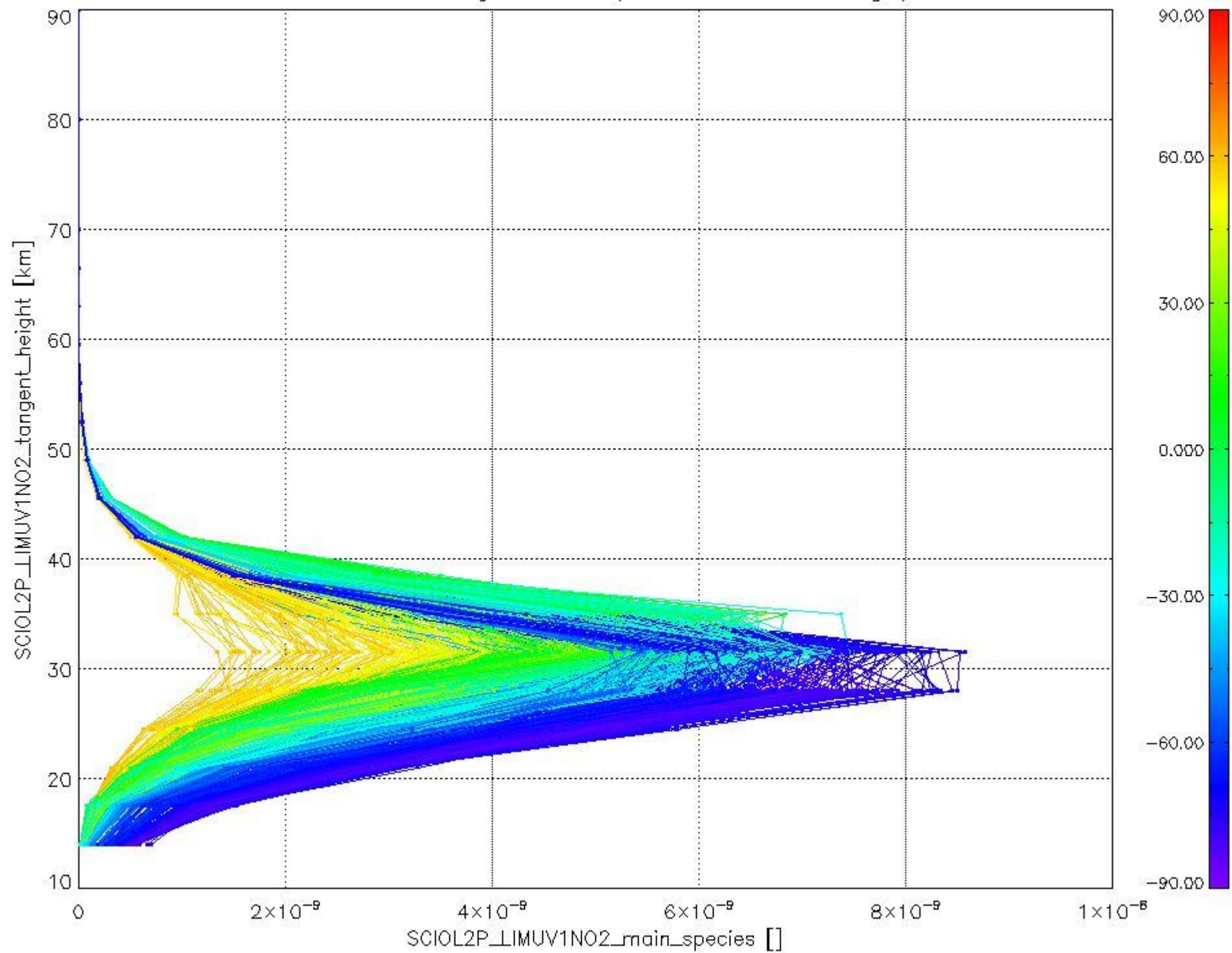
The following data items are currently included into this section:

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.



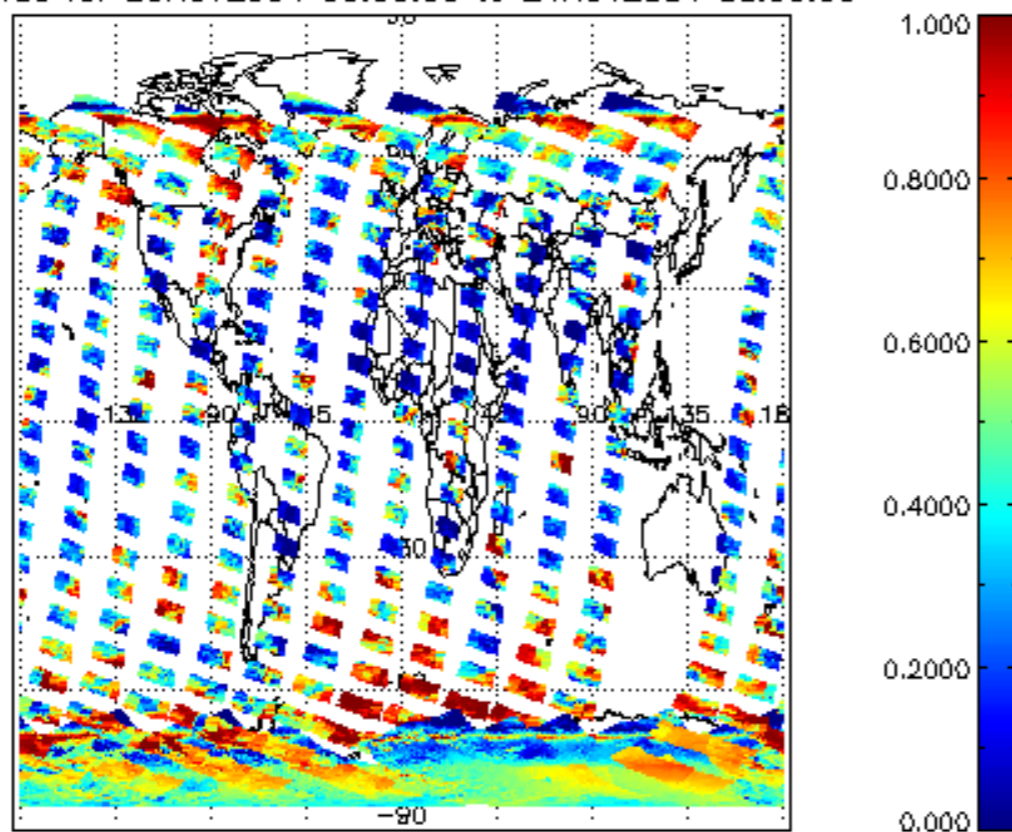
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



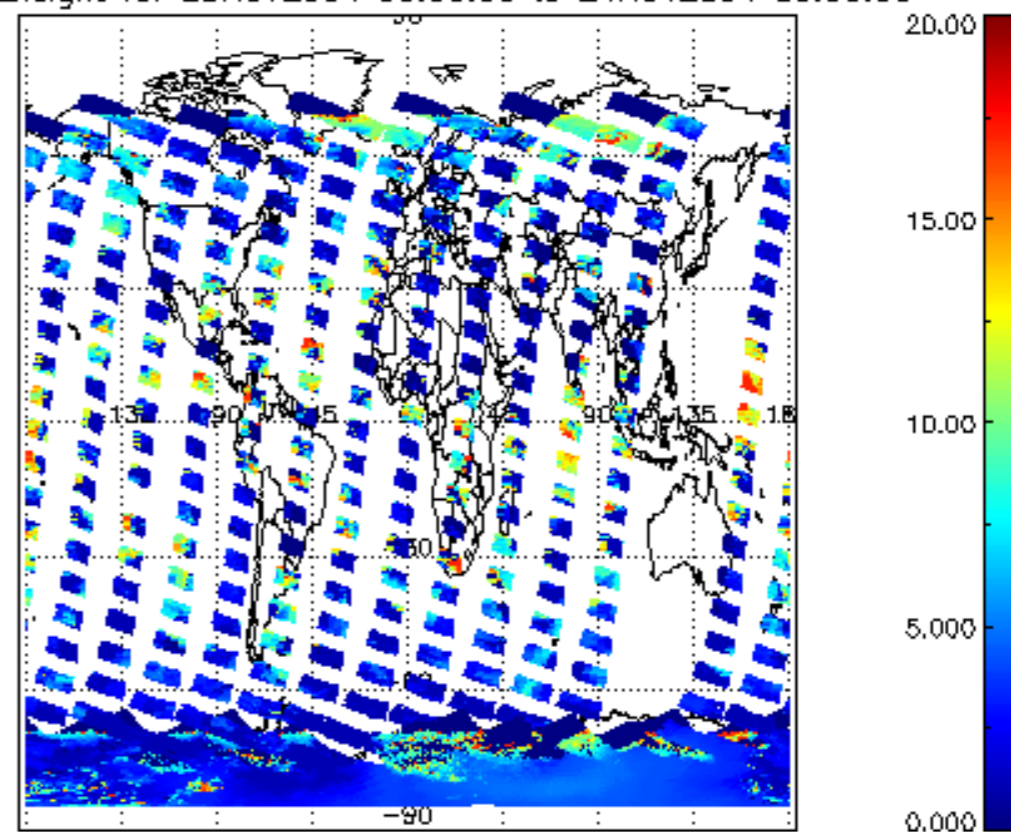
2.3 ADF monitoring

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

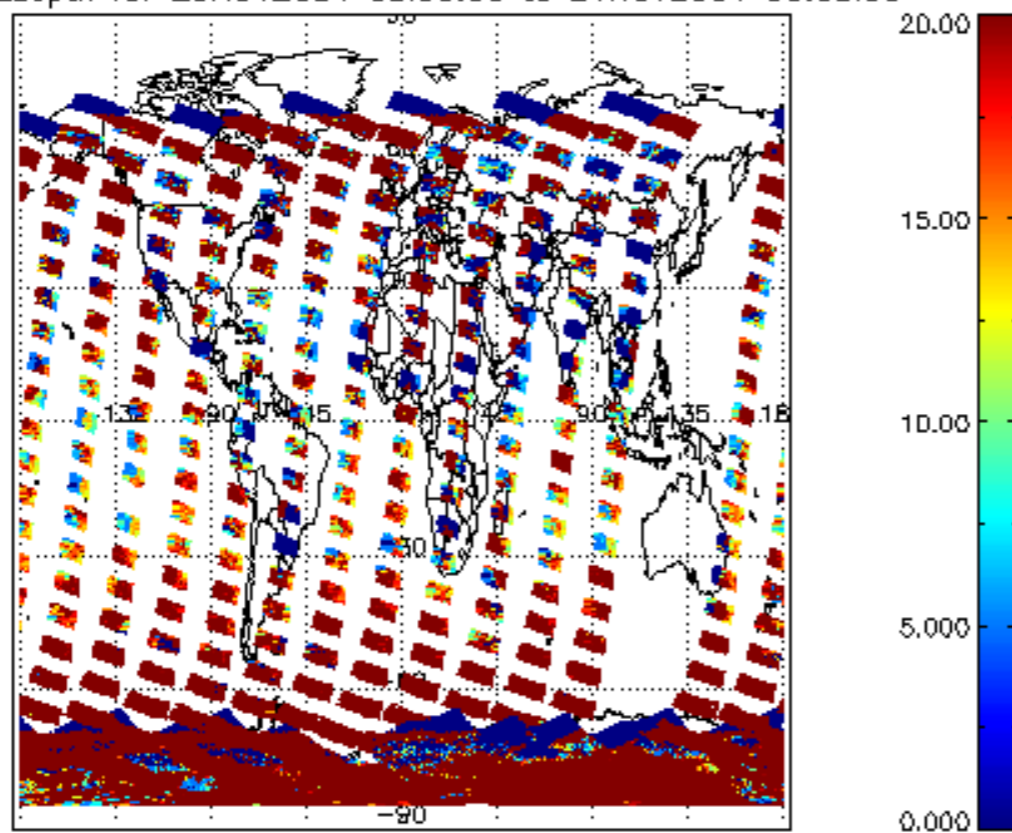
cLfrac for 23NOV2004 00:00:00 to 24NOV2004 00:00:00



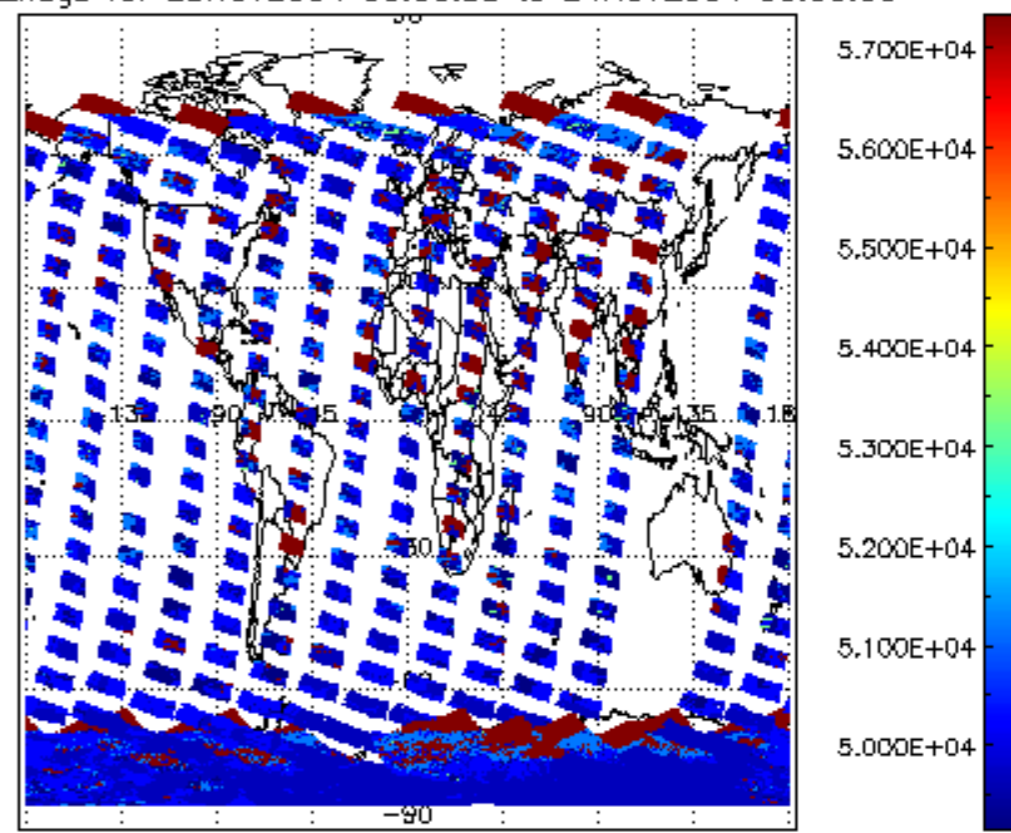
cL_top_height for 23NOV2004 00:00:00 to 24NOV2004 00:00:00

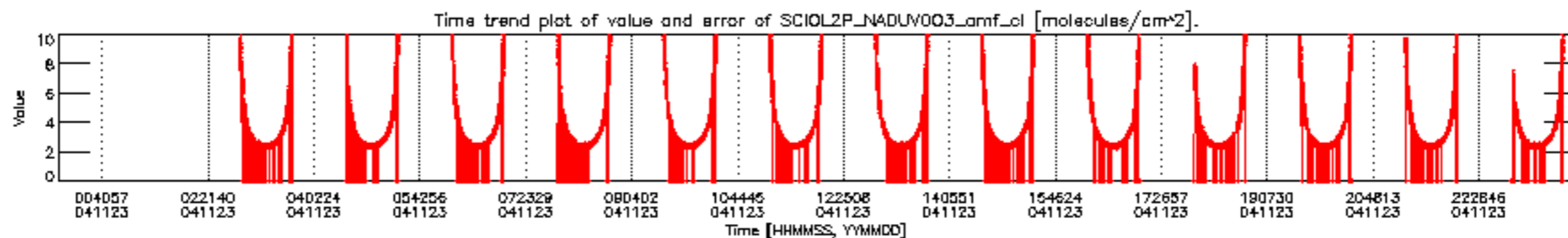
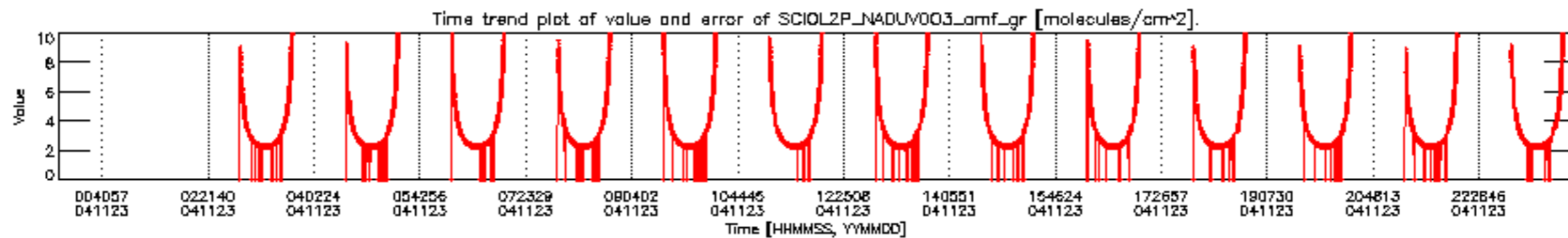
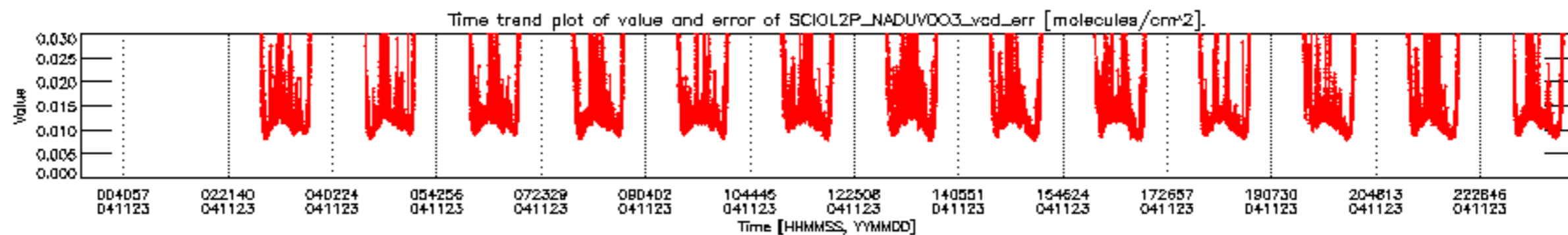
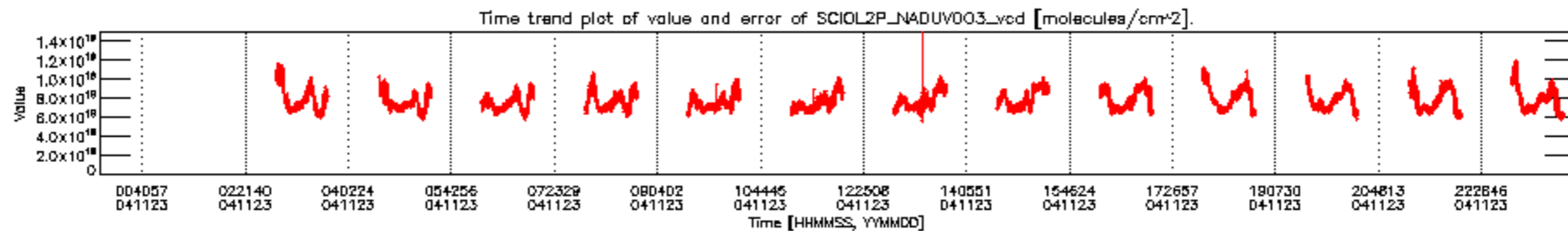


cL_opt_depth for 23NOV2004 00:00:00 to 24NOV2004 00:00:00

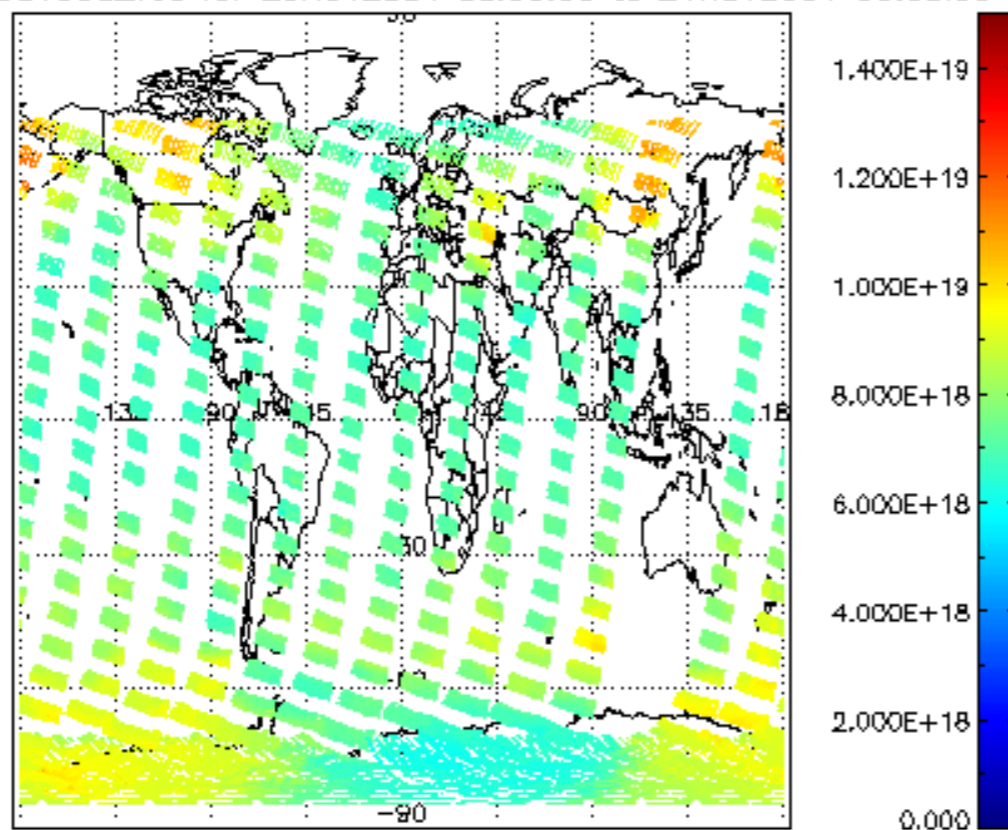


cloud_flags for 23NOV2004 00:00:00 to 24NOV2004 00:00:00

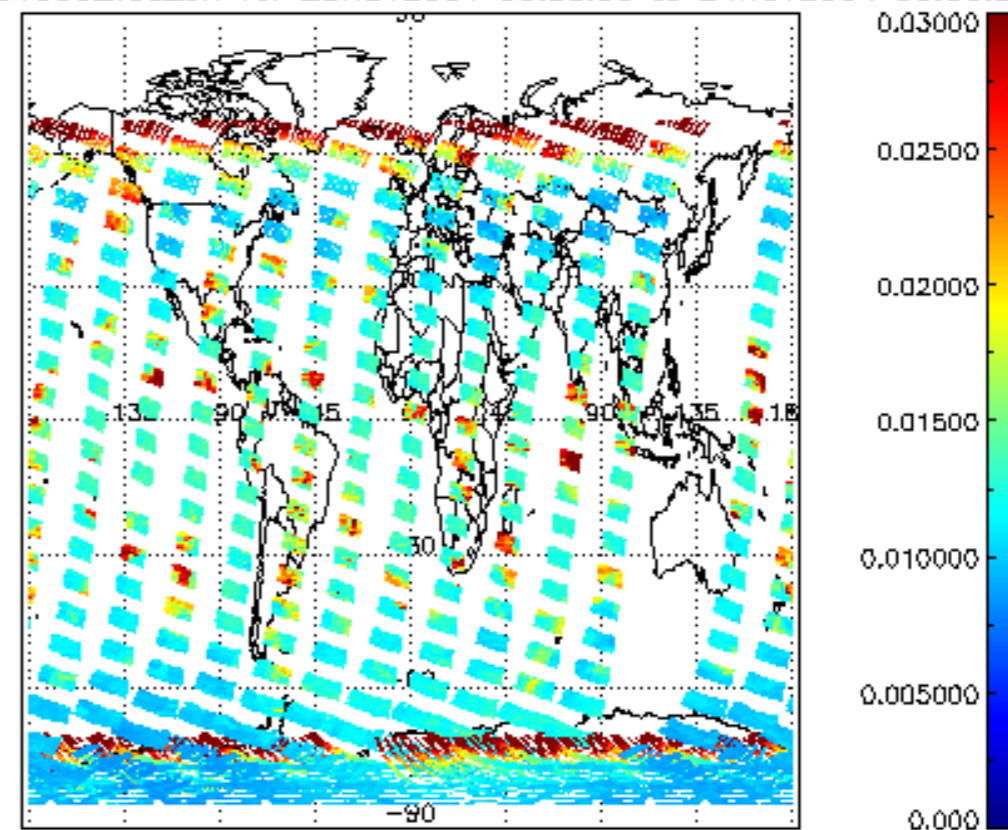




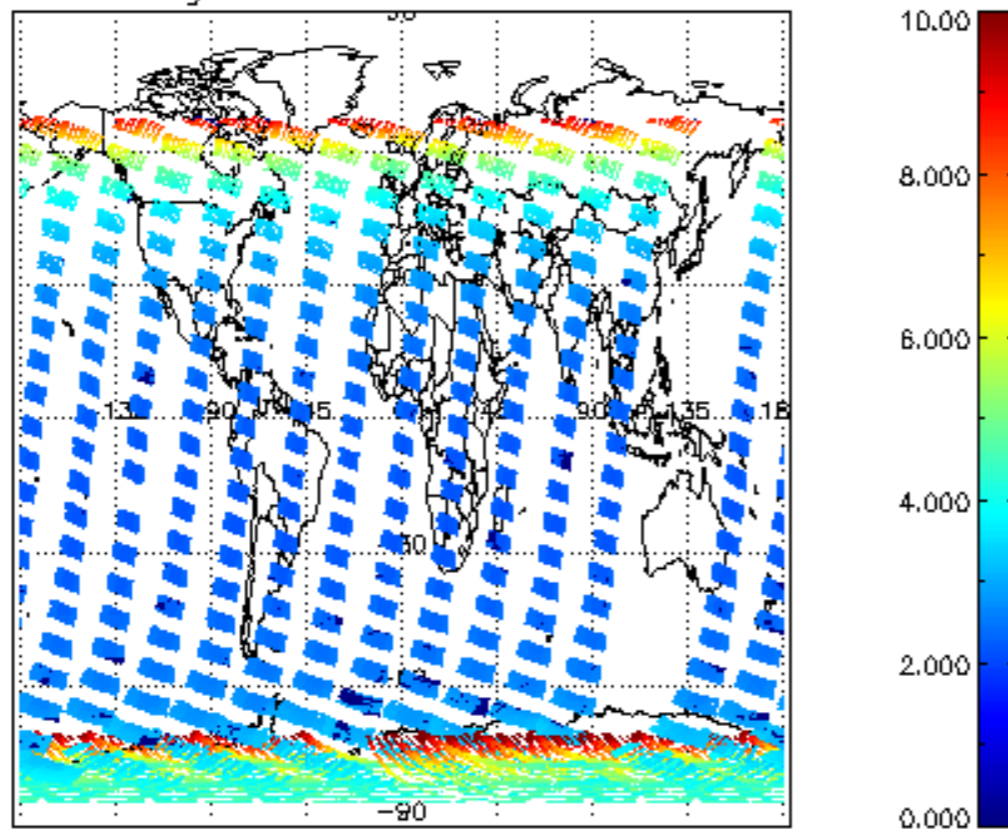
SCIOL2P_NADUV003_vcd for 23NOV2004 00:00:00 to 24NOV2004 00:00:00



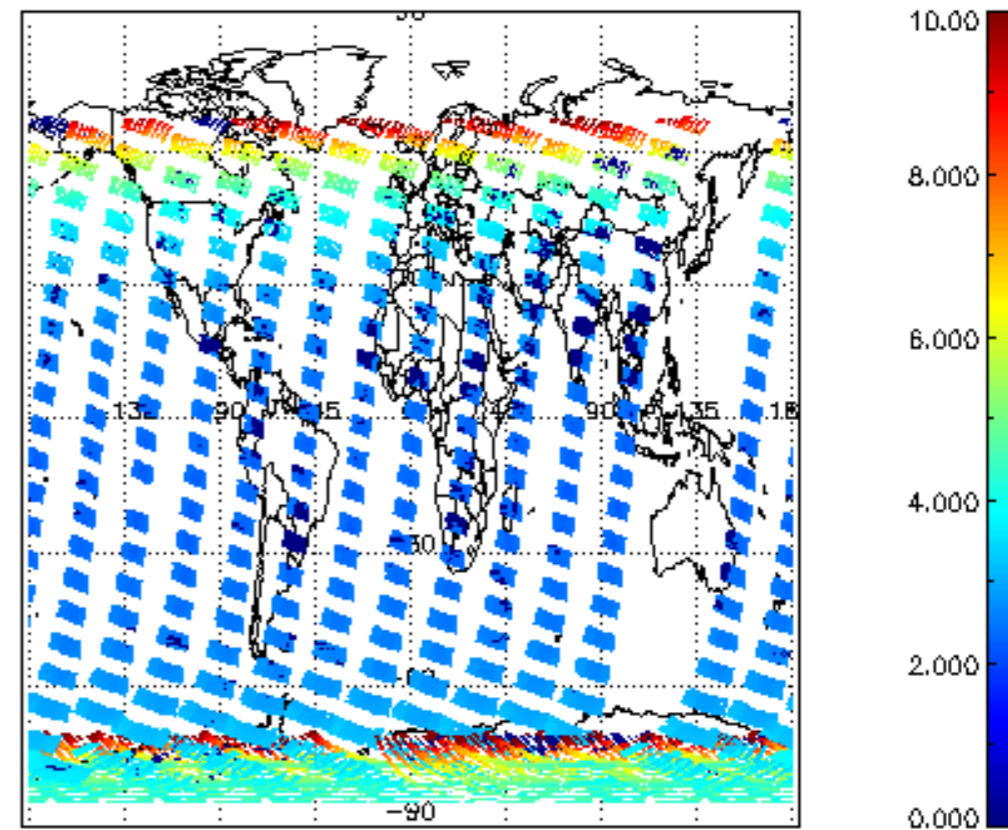
SCIOL2P_NADUV003_vcd_err for 23NOV2004 00:00:00 to 24NOV2004 00:00:00



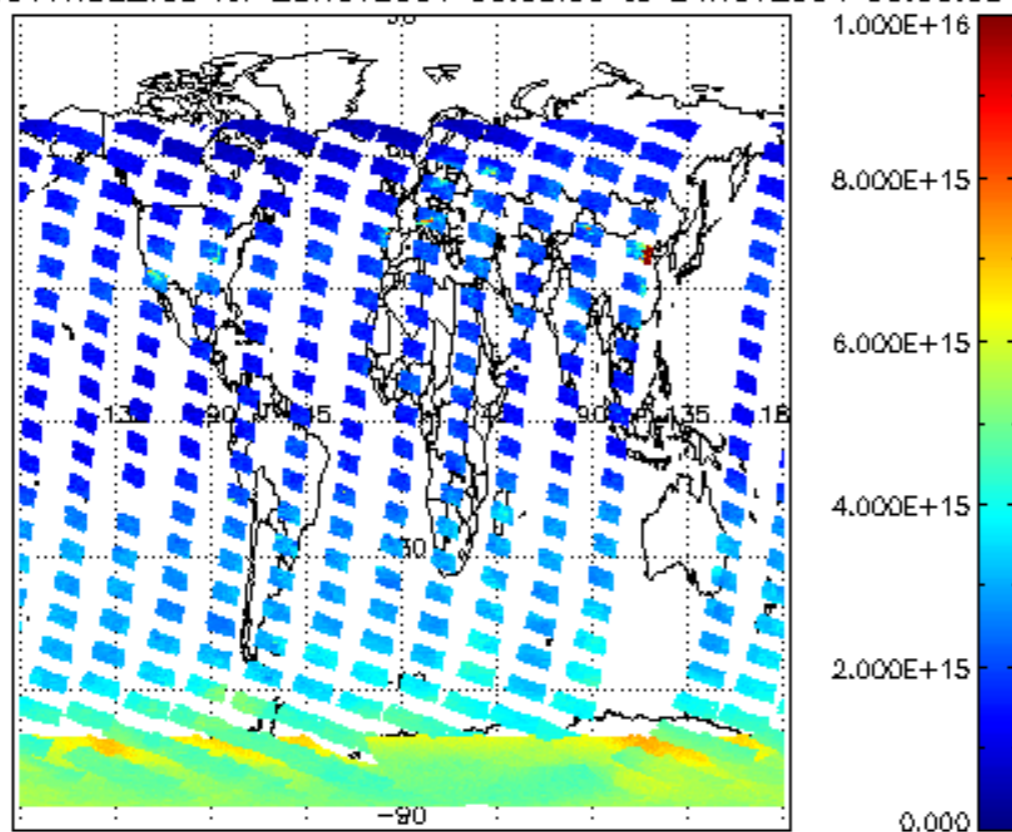
SCIOL2P_NADUV003_amf_gr for 23NOV2004 00:00:00 to 24NOV2004 00:00:00



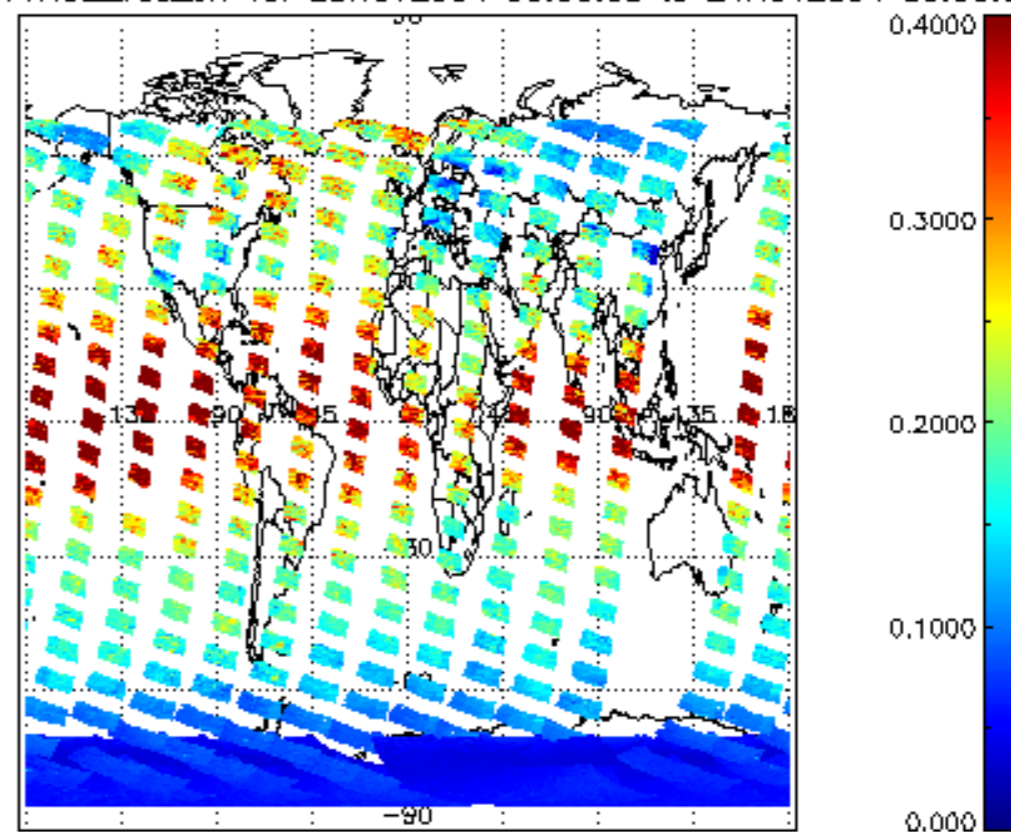
SCIOL2P_NADUV003_amf_cl for 23NOV2004 00:00:00 to 24NOV2004 00:00:00



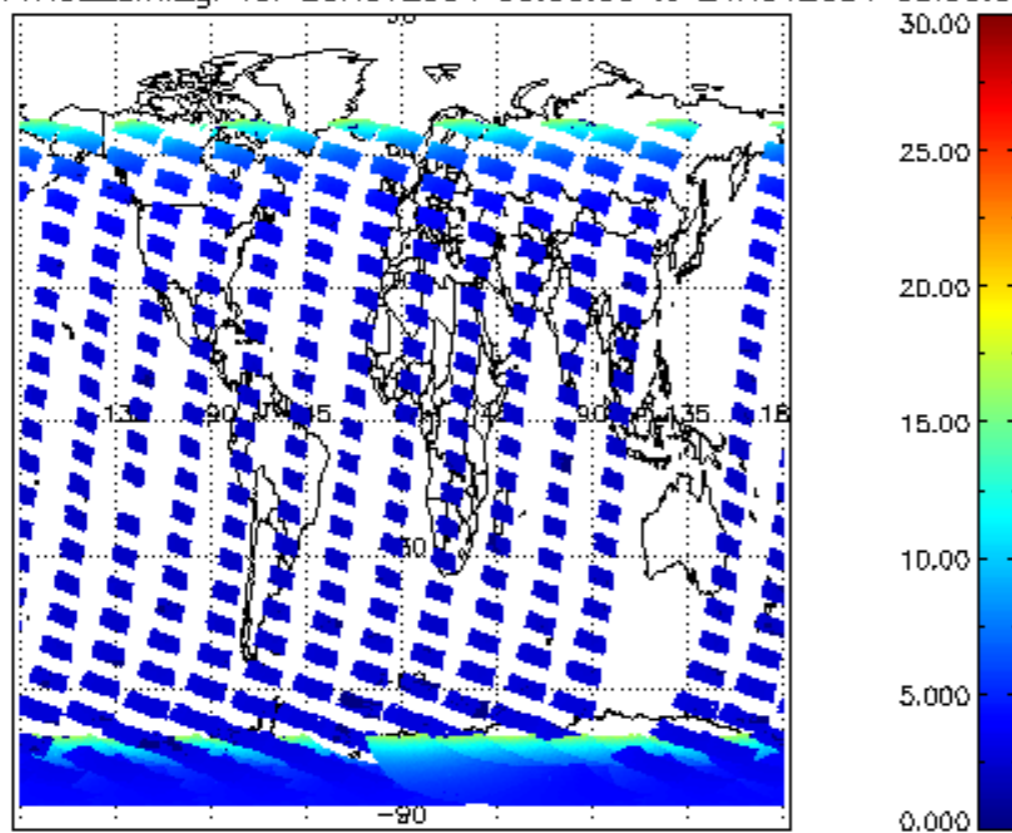
SCIOL2P_NADUV1NO2_vcd for 23NOV2004 00:00:00 to 24NOV2004 00:00:00



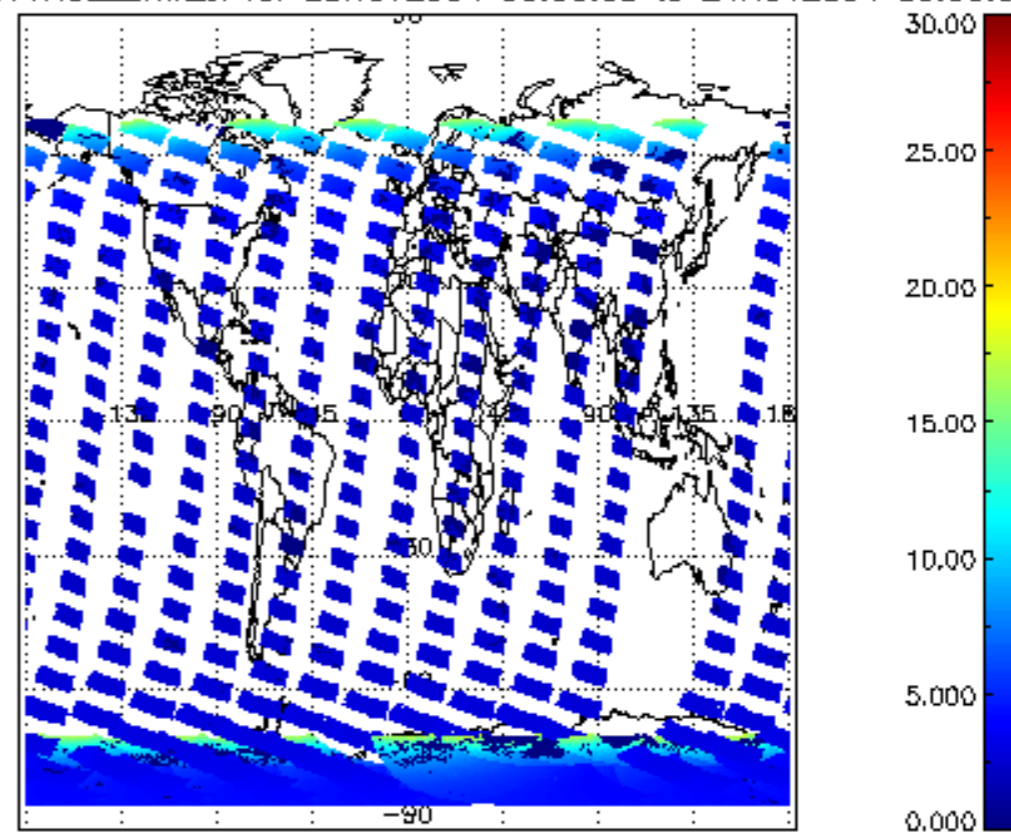
SCIOL2P_NADUV1NO2_vcd_err for 23NOV2004 00:00:00 to 24NOV2004 00:00:00



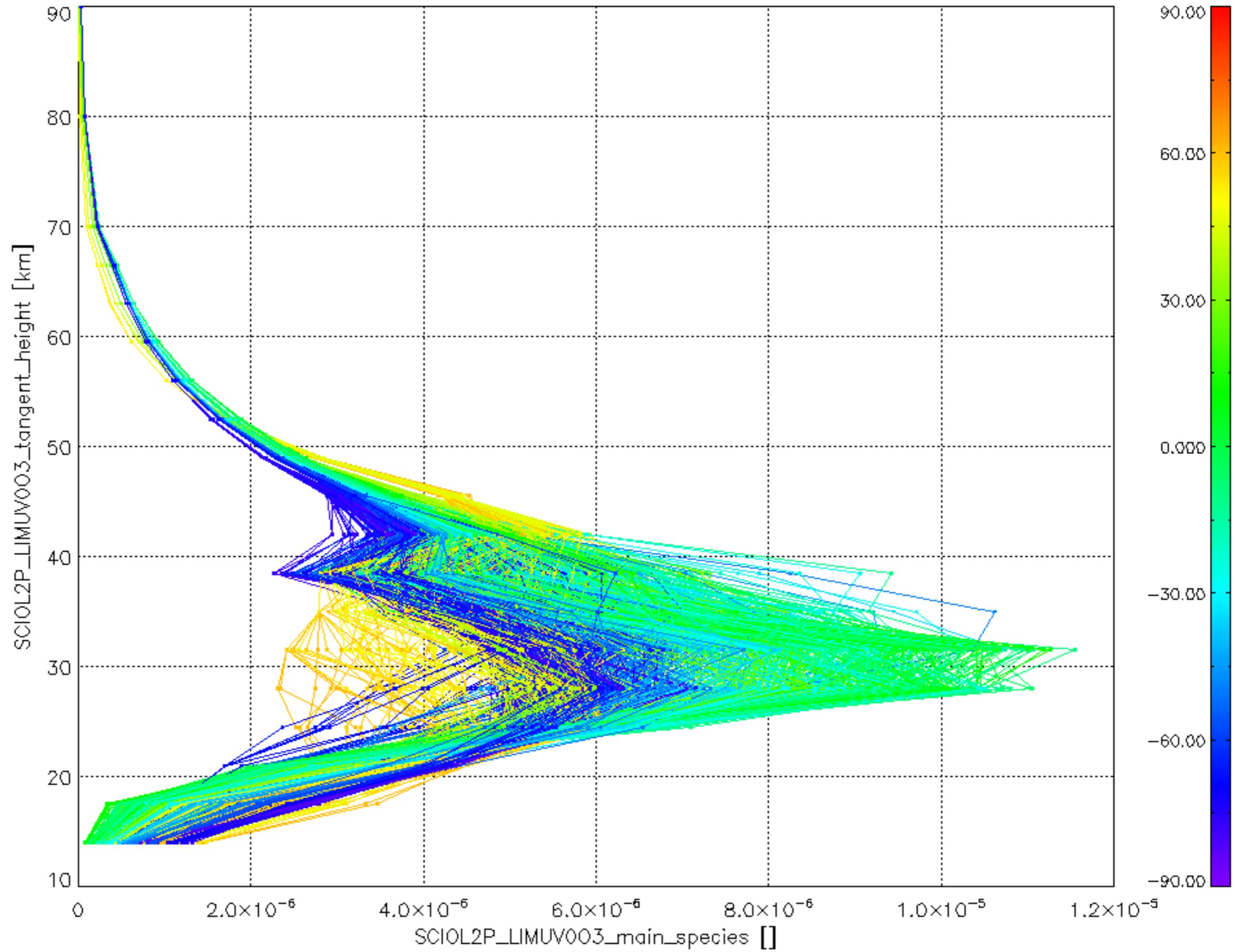
SCIOL2P_NADUV1NO2_amf_gr for 23NOV2004 00:00:00 to 24NOV2004 00:00:00



SCIOL2P_NADUV1NO2_amf_cl for 23NOV2004 00:00:00 to 24NOV2004 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).

