

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	02SEP2008 15:09:34
Data source version	SCIA-OL/3.01-R
Processing scope for products	12AUG2004 00:00:00 to 13AUG2004 00:00:00
Start time of first product within scope	11AUG2004 23:51:33
Stop time of last product within scope	12AUG2004 22:35:47
Total number of level 2 products	14
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__2PRDPA20040811_235133_000033252029_00231_12810_9579.N1	11AUG2004 23:51:33	12AUG2004 00:46:59	0	GOOD
1	SCI_OL__2PRDPA20040812_013210_000033812029_00232_12811_9286.N1	12AUG2004 01:32:10	12AUG2004 02:28:31	0	GOOD
2	SCI_OL__2PRDPA20040812_031246_000033252029_00233_12812_9380.N1	12AUG2004 03:12:46	12AUG2004 04:08:11	0	GOOD
3	SCI_OL__2PRDPA20040812_045322_000033812029_00234_12813_9504.N1	12AUG2004 04:53:22	12AUG2004 05:49:44	0	GOOD
4	SCI_OL__2PRDPA20040812_063359_000033252029_00235_12814_9310.N1	12AUG2004 06:33:59	12AUG2004 07:29:24	0	GOOD
5	SCI_OL__2PRDPA20040812_081435_000033812029_00236_12815_9508.N1	12AUG2004 08:14:35	12AUG2004 09:10:56	0	GOOD
6	SCI_OL__2PRDPA20040812_095511_000033252029_00237_12816_9586.N1	12AUG2004 09:55:11	12AUG2004 10:50:37	0	GOOD
7	SCI_OL__2PRDPA20040812_113547_000033812029_00238_12817_9566.N1	12AUG2004 11:35:47	12AUG2004 12:32:09	0	GOOD
8	SCI_OL__2PRDPA20040812_131624_000033252029_00239_12818_9361.N1	12AUG2004 13:16:24	12AUG2004 14:11:49	0	GOOD
9	SCI_OL__2PRDPA20040812_145700_000033812029_00240_12819_9634.N1	12AUG2004 14:57:00	12AUG2004 15:53:21	0	GOOD
10	SCI_OL__2PRDPA20040812_163736_000033252029_00241_12820_9307.N1	12AUG2004 16:37:36	12AUG2004 17:33:02	0	GOOD
11	SCI_OL__2PRDPA20040812_181806_000033762029_00242_12821_9372.N1	12AUG2004 18:18:06	12AUG2004 19:14:23	0	GOOD
12	SCI_OL__2PRDPA20040812_195908_000033252029_00243_12822_9416.N1	12AUG2004 19:59:08	12AUG2004 20:54:33	0	GOOD
13	SCI_OL__2PRDPA20040812_213925_000033812029_00244_12823_9359.N1	12AUG2004 21:39:25	12AUG2004 22:35:47	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: 144560

Total number of cloud data DSRs with good quality flag (=0): 144560 (100.0 %)

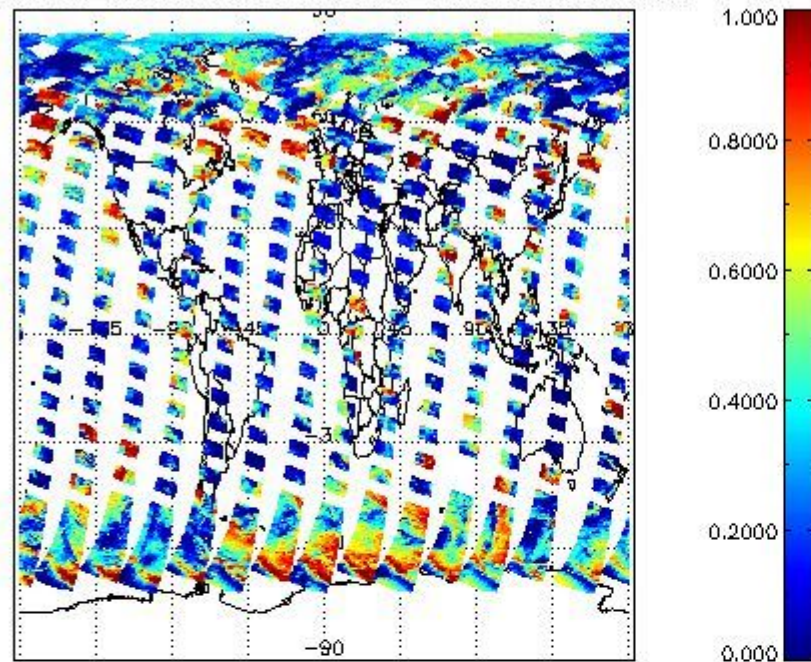
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	144560	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	144560	0.17041	0.12500	0.12500	0.25000	0.060119	s
CL_FRAC	144560	0.35910	0.31584	0.0000	1.0000	0.28525	-
CL_FRAC_ERR	144560	0.0000	0.0000	0.0000	0.0000	0.0000	rel. fraction
PMD_READ	144560	5.4532	4.0000	4.0000	8.0000	1.9238	
PMD_READ_CL[0]	144560	0.24236	0.0000	0.0000	8.0000	1.1308	-
PMD_READ_CL[1]	144560	0.91022	0.0000	0.0000	8.0000	1.9397	-
CL_TOP_HEIGHT	124134	3.8460	2.2316	0.0000	17.000	3.8703	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	124134	60.008	77.703	0.0000	101.00	42.580	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	144560	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	144560	11001010	11000100	11000000	11100000	3274.4	flags
AERO_ABSO_IND	144560	0.78562	0.56463	-4.1305	8.7983	1.0787	
AERO_IND_DIAG	144560	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	144560	01010111	00000000	00000000	11000000	24485.	flags

Time and geolocation plots:

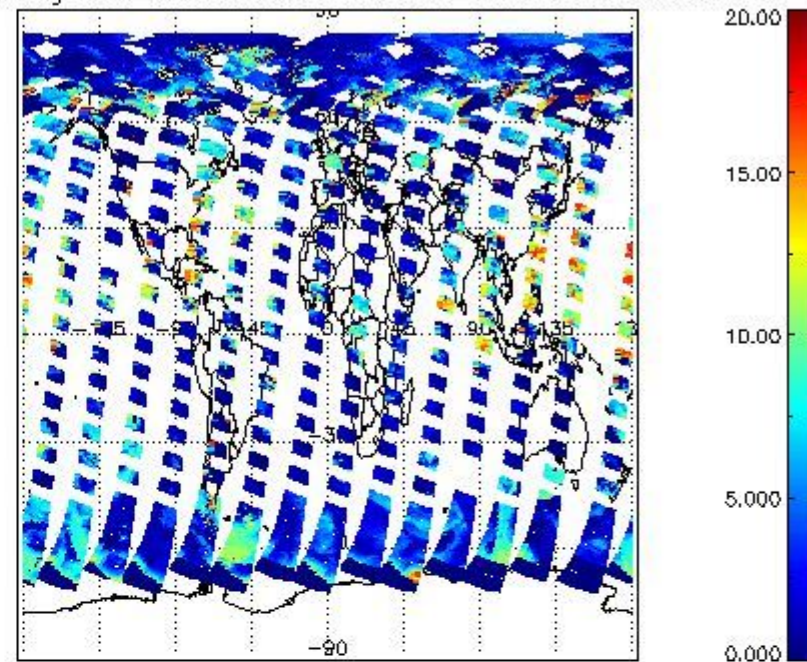
Plots are available for the following parameters:

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

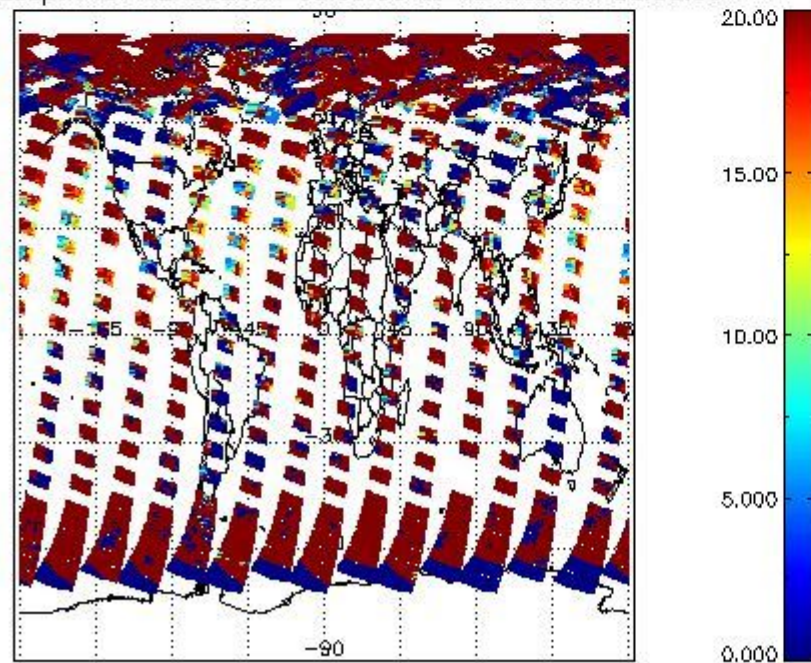
cL_frac for 12AUG2004 00:00:00 to 13AUG2004 00:00:00



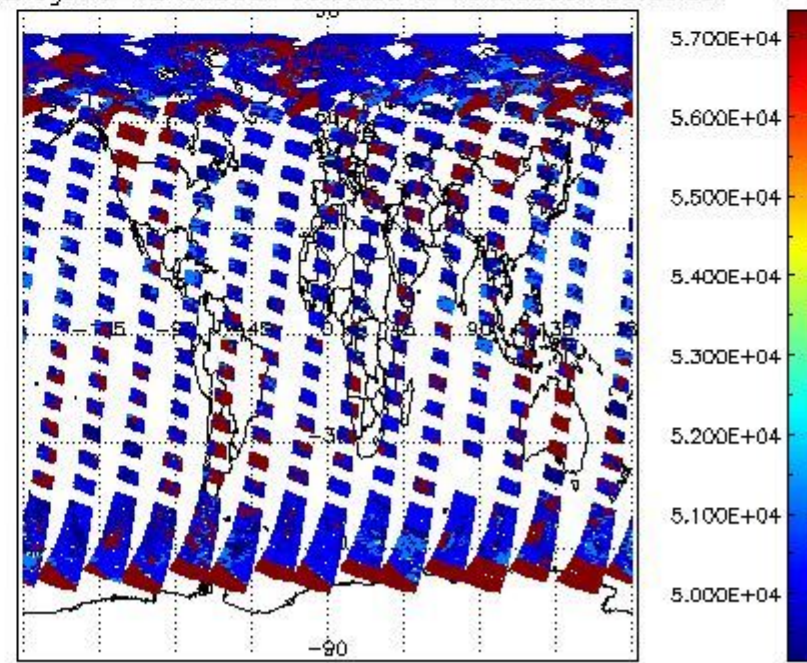
cL_top_height for 12AUG2004 00:00:00 to 13AUG2004 00:00:00



cL_opt_depth for 12AUG2004 00:00:00 to 13AUG2004 00:00:00



cloud_flags for 12AUG2004 00:00:00 to 13AUG2004 00:00:00



2.2.2 Nadir

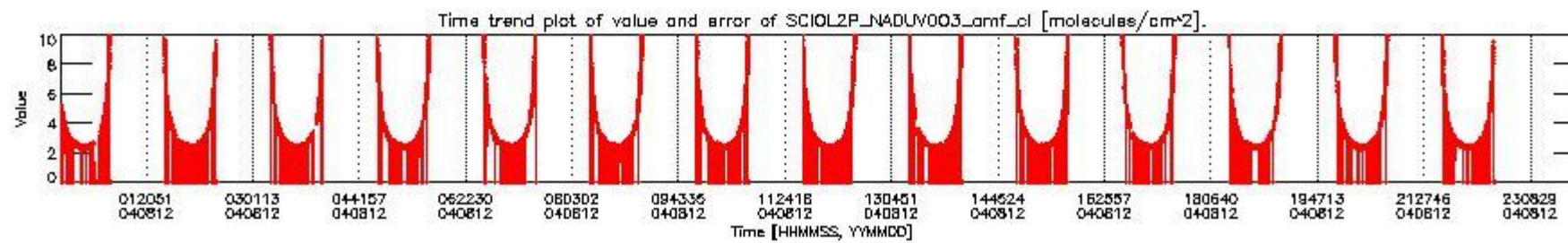
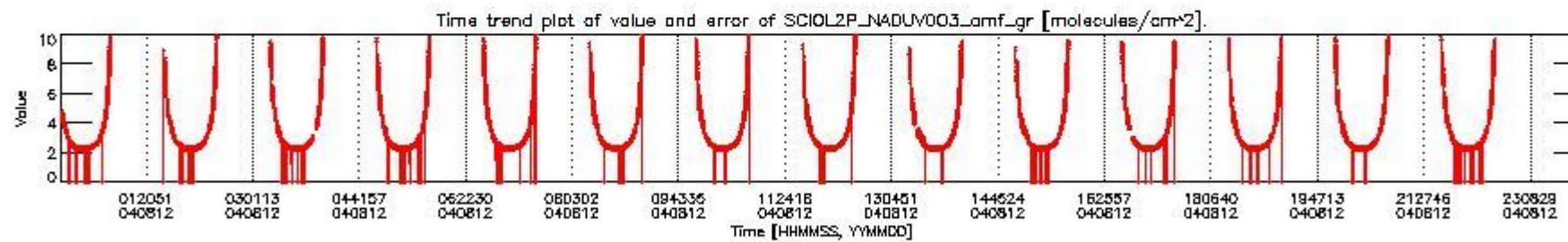
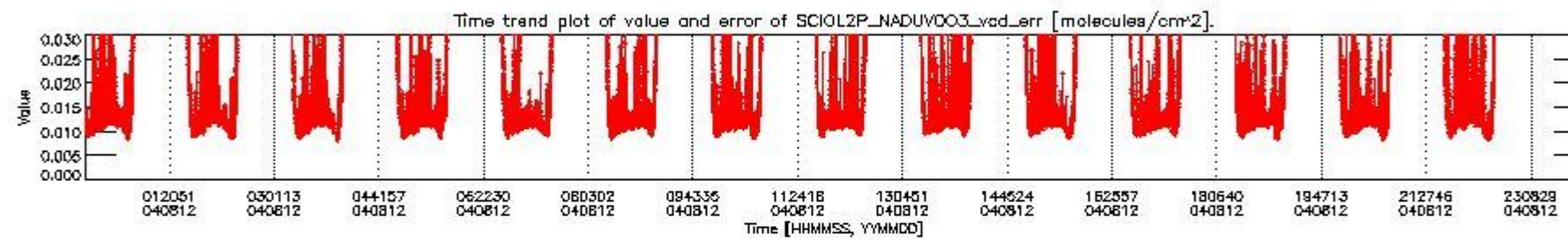
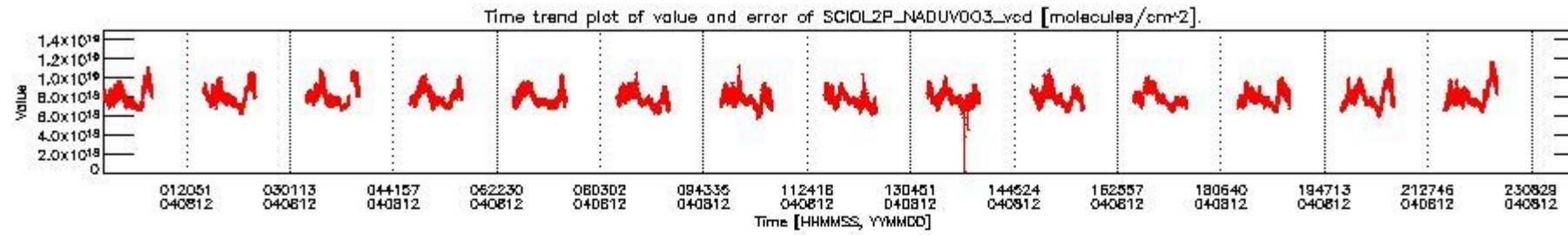
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

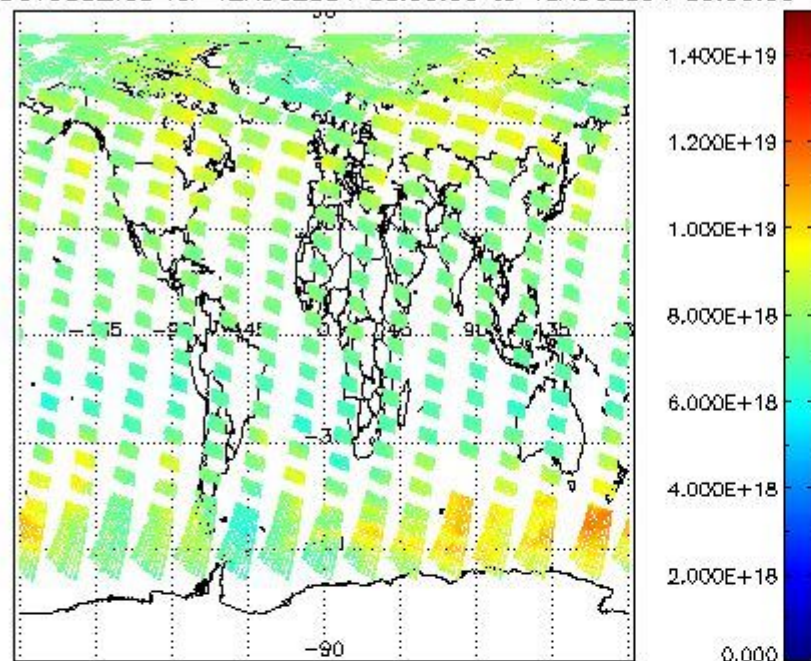
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

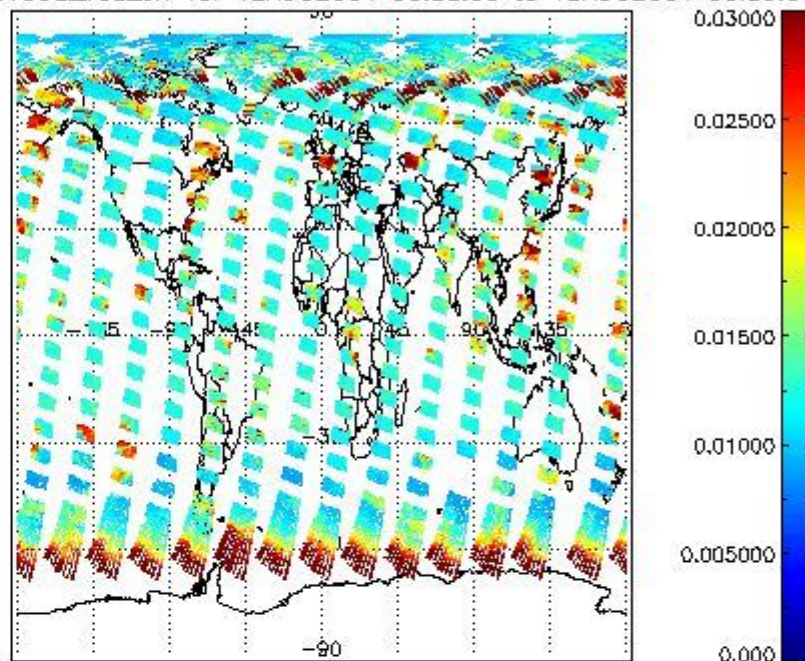
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



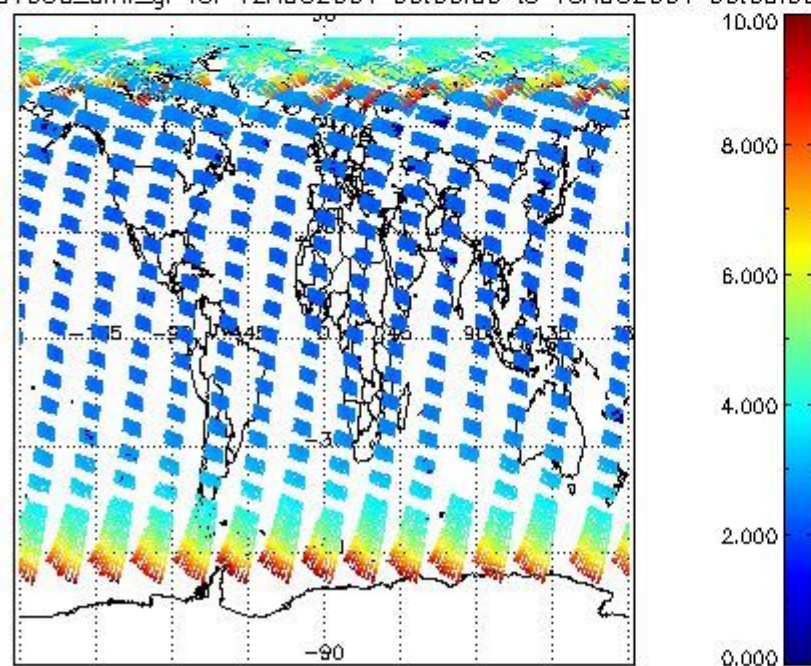
SCIOL2P_NADUV003_vcd for 12AUG2004 00:00:00 to 13AUG2004 00:00:00



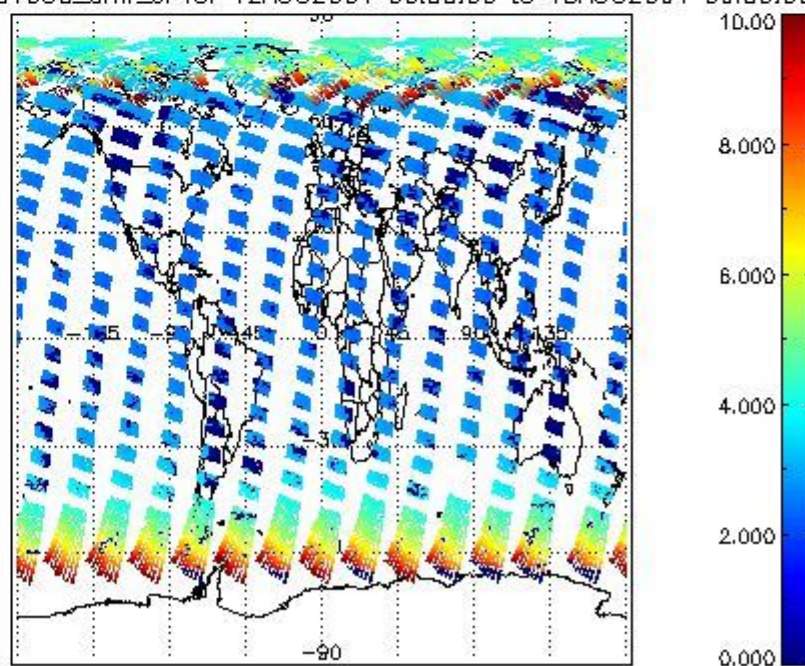
SCIOL2P_NADUV003_vcd_err for 12AUG2004 00:00:00 to 13AUG2004 00:00:00

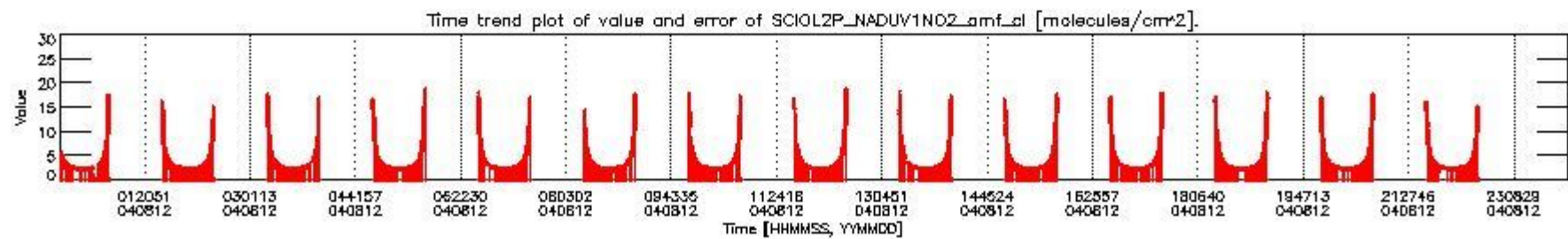
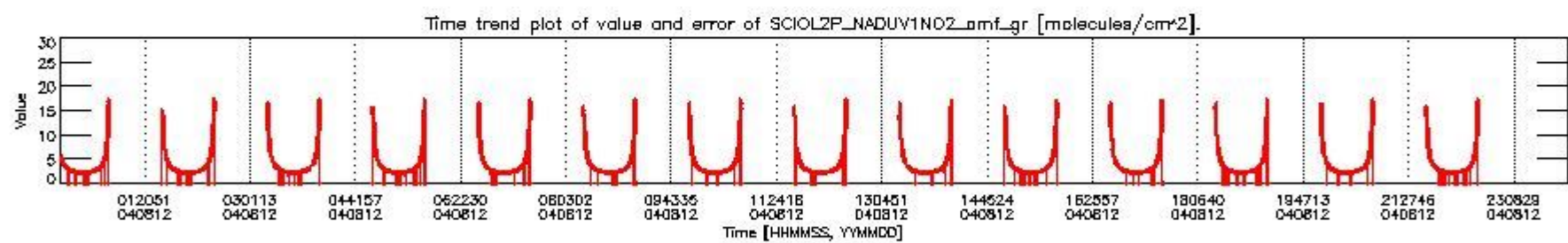
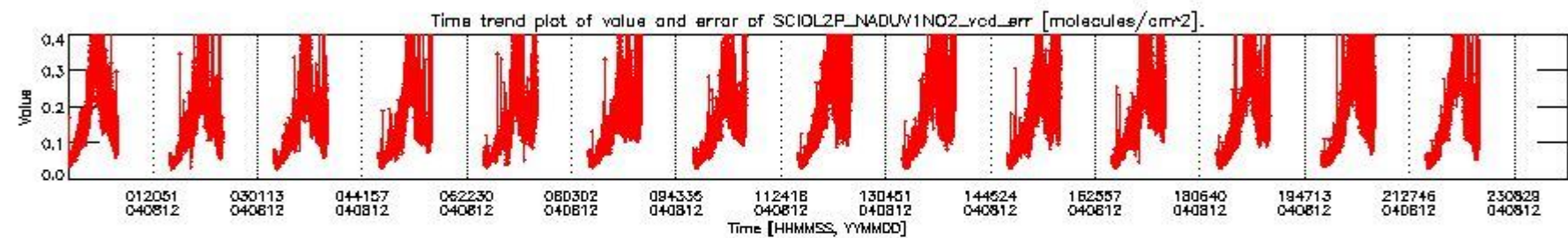
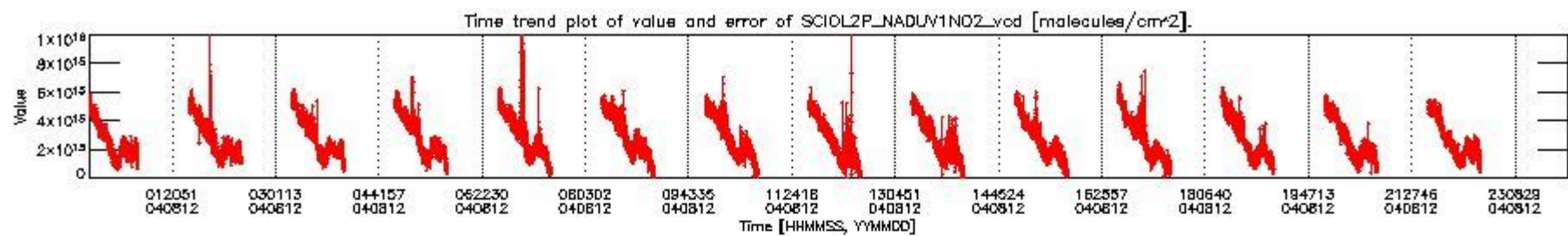


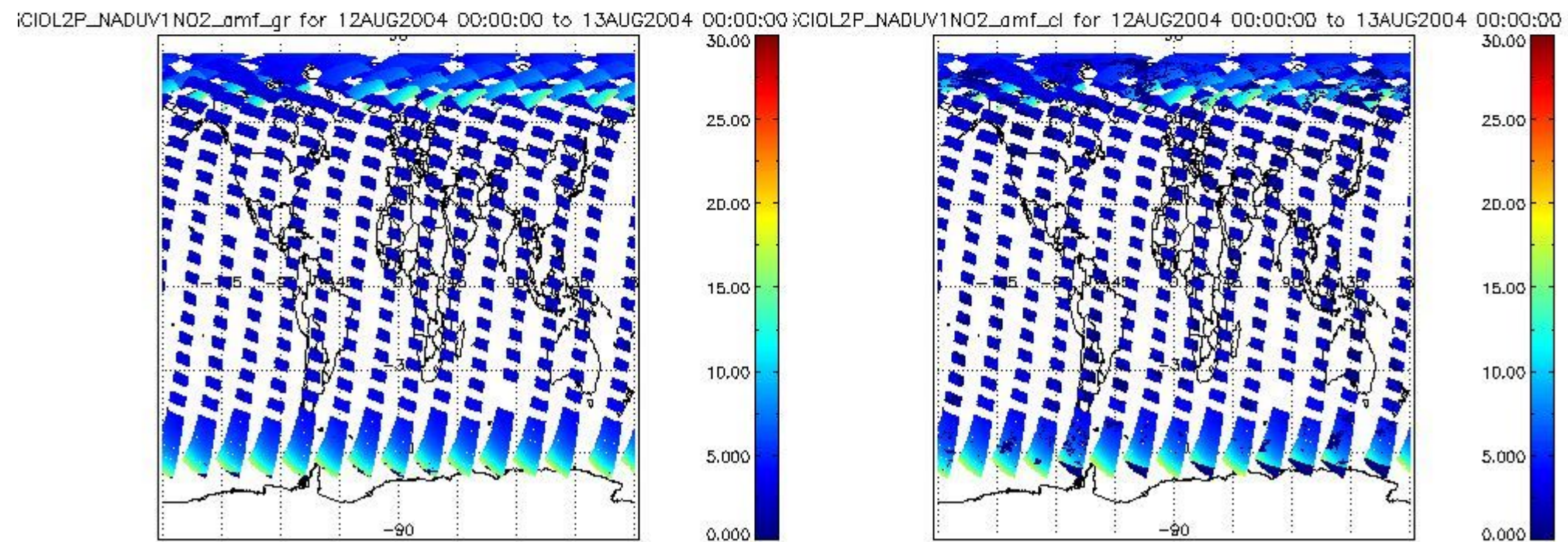
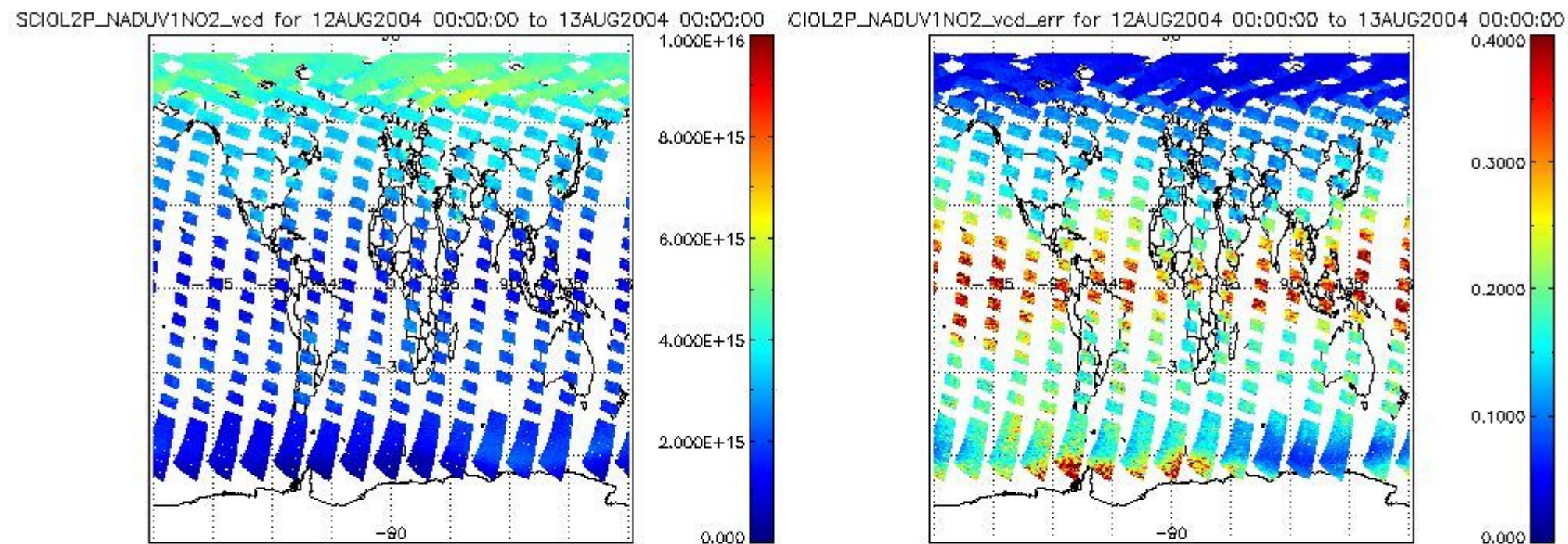
SCIOL2P_NADUV003_amf_gr for 12AUG2004 00:00:00 to 13AUG2004 00:00:00



SCIOL2P_NADUV003_amf_cl for 12AUG2004 00:00:00 to 13AUG2004 00:00:00







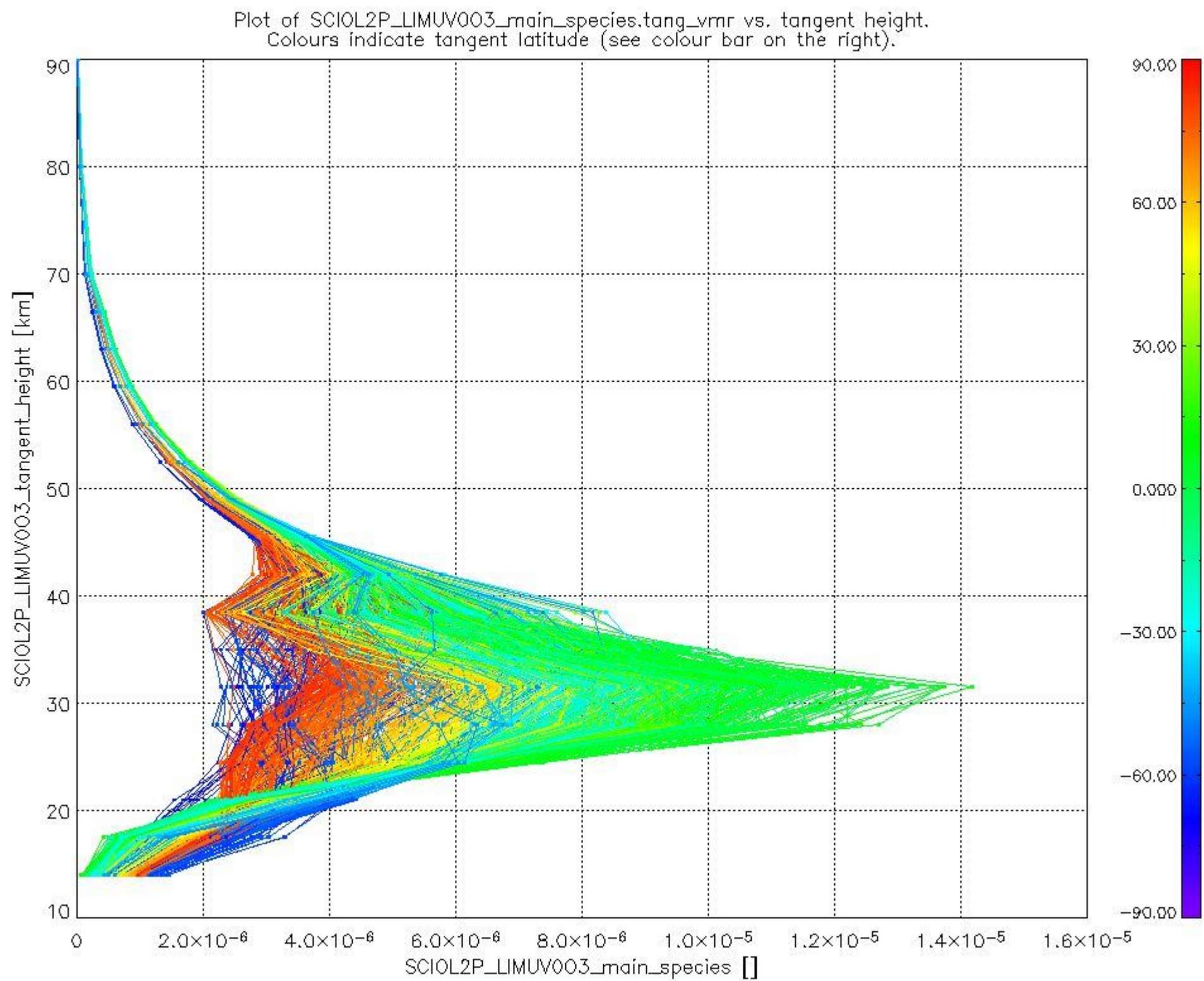
2.2.3 Limb

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

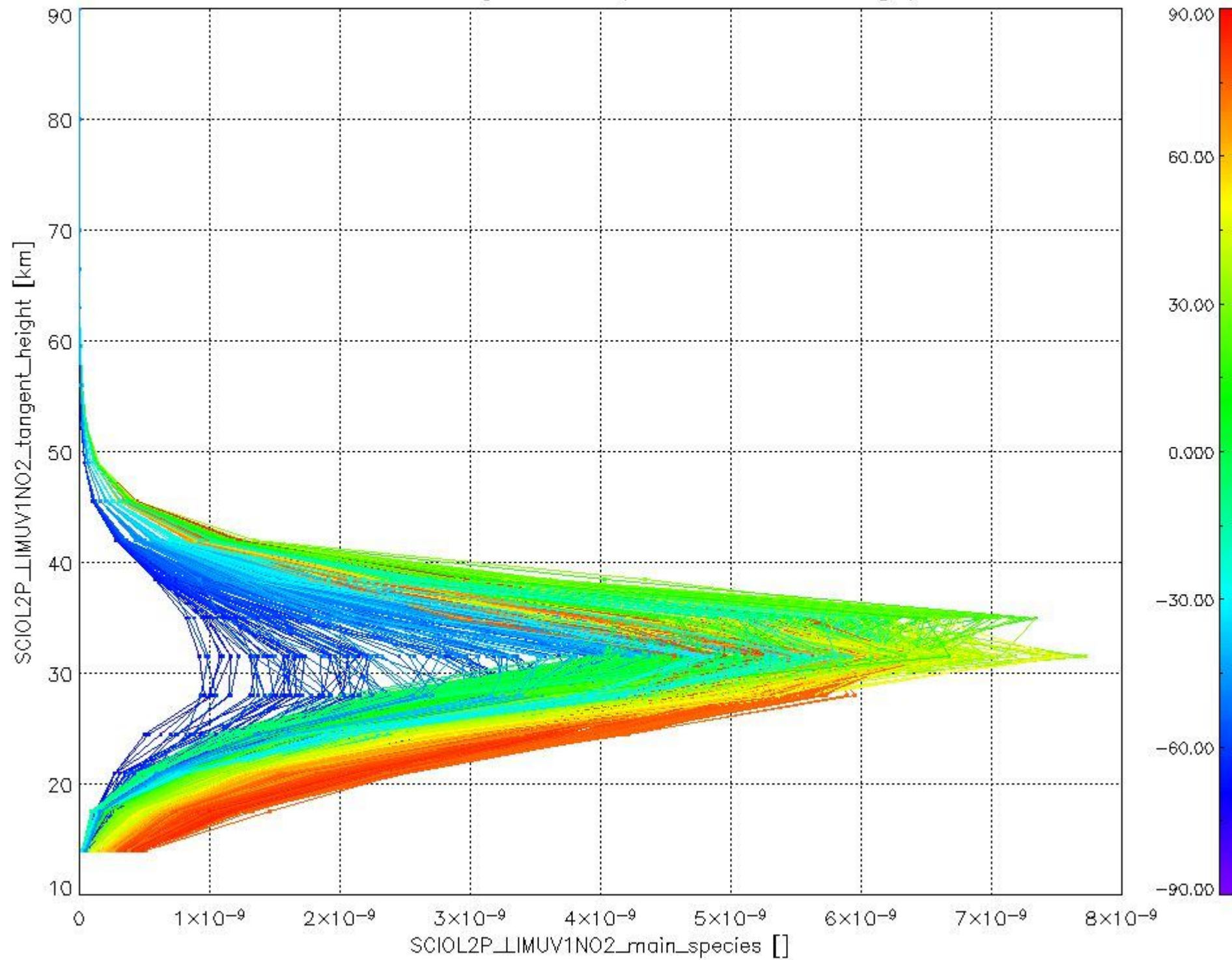
The following data items are currently included into this section:

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.



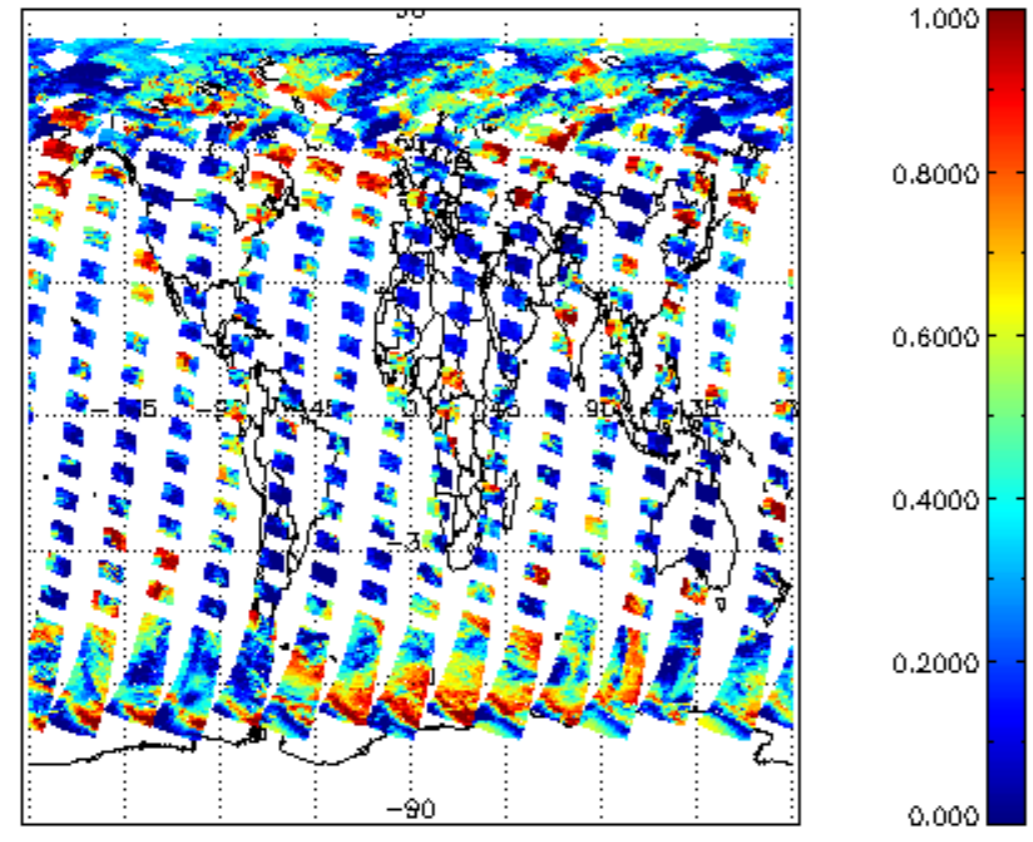
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



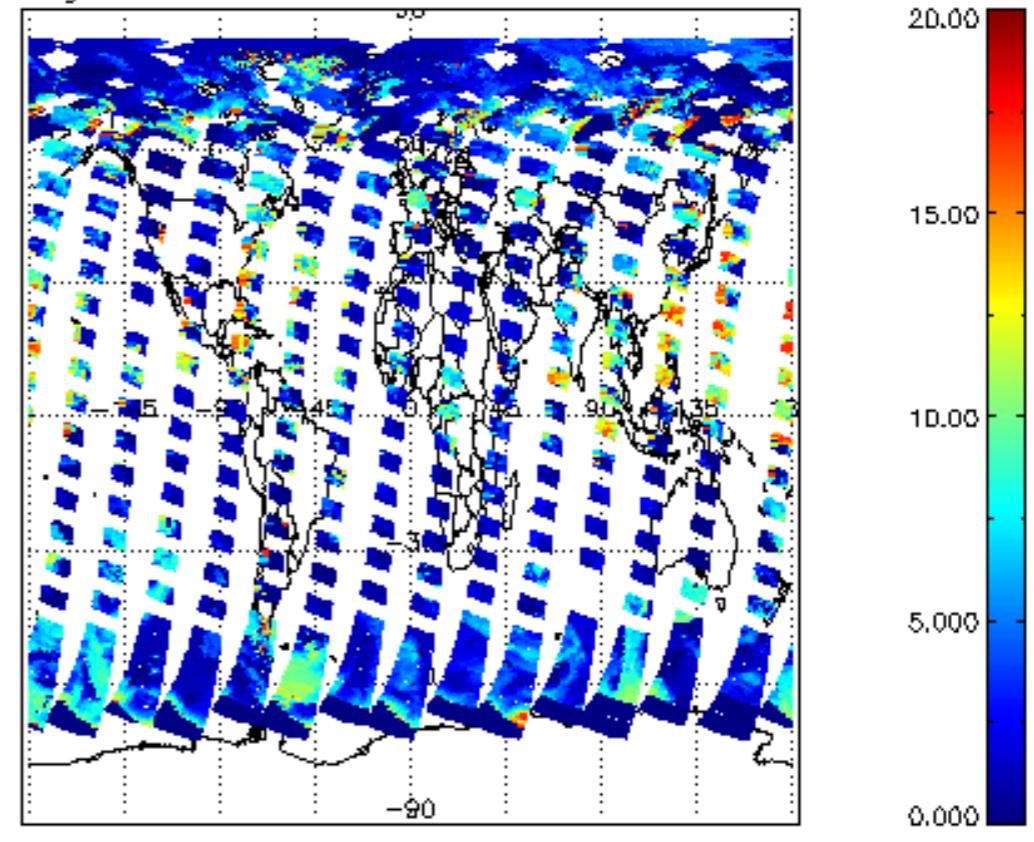
2.3 ADF monitoring

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

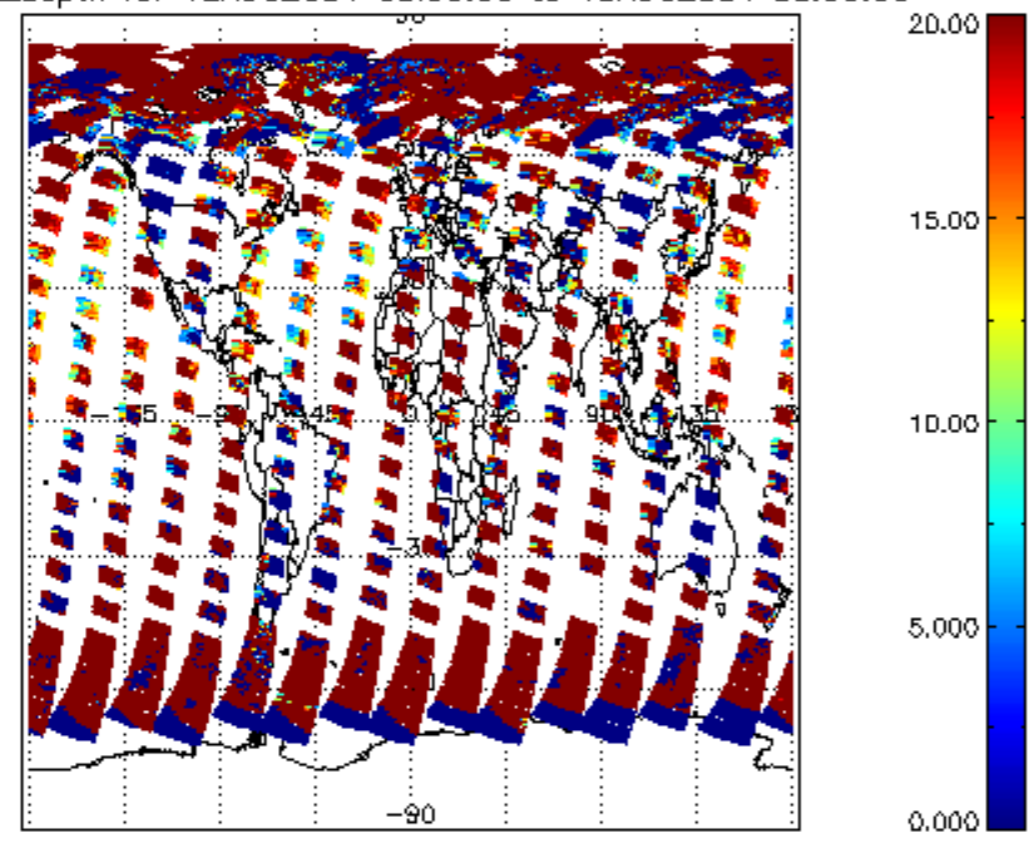
cL_frac for 12AUG2004 00:00:00 to 13AUG2004 00:00:00



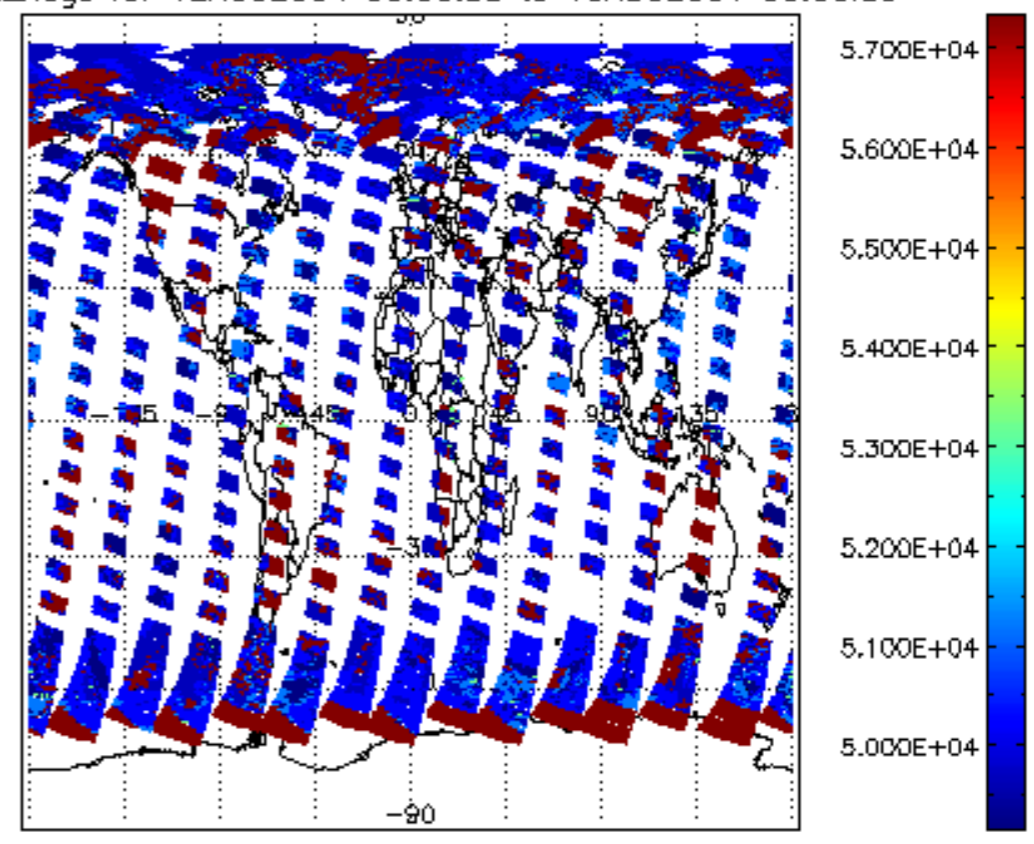
cL_top_height for 12AUG2004 00:00:00 to 13AUG2004 00:00:00

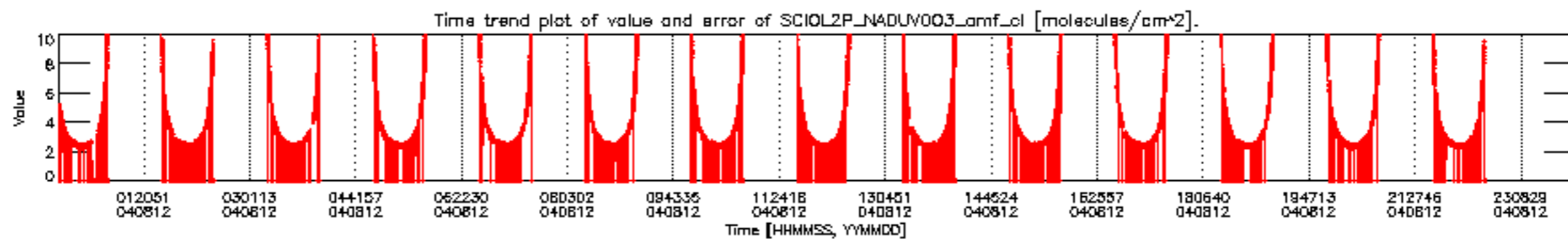
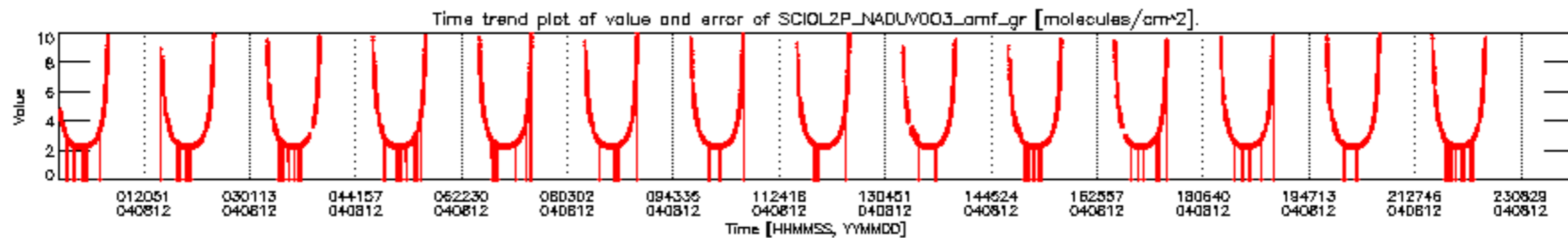
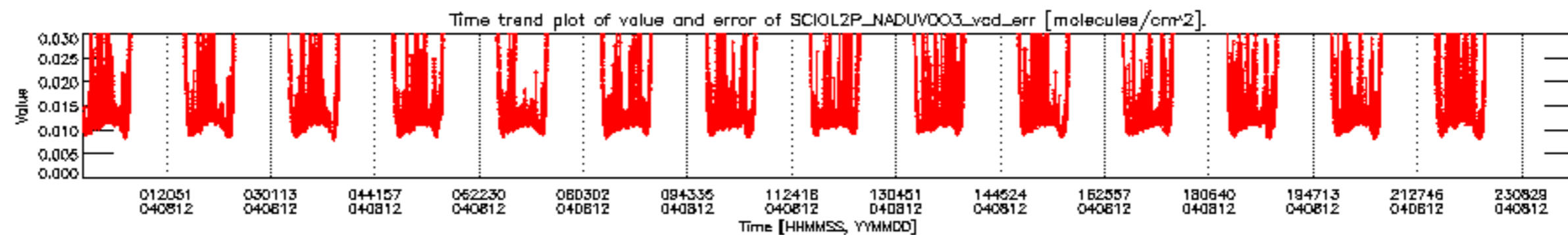
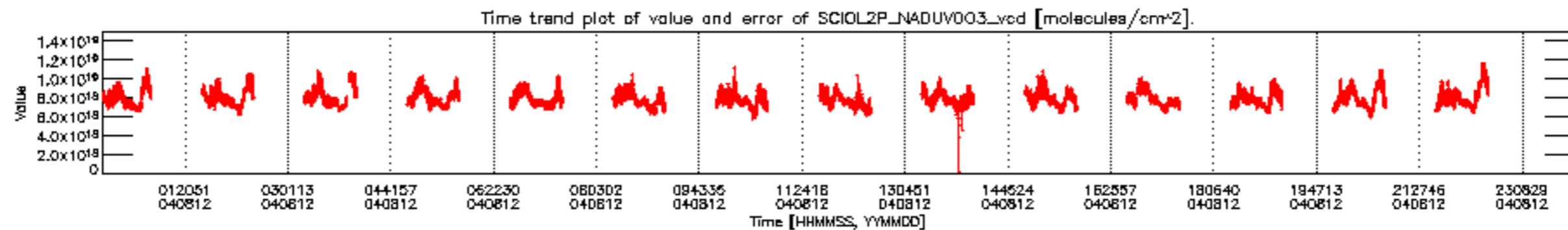


cL_opt_depth for 12AUG2004 00:00:00 to 13AUG2004 00:00:00

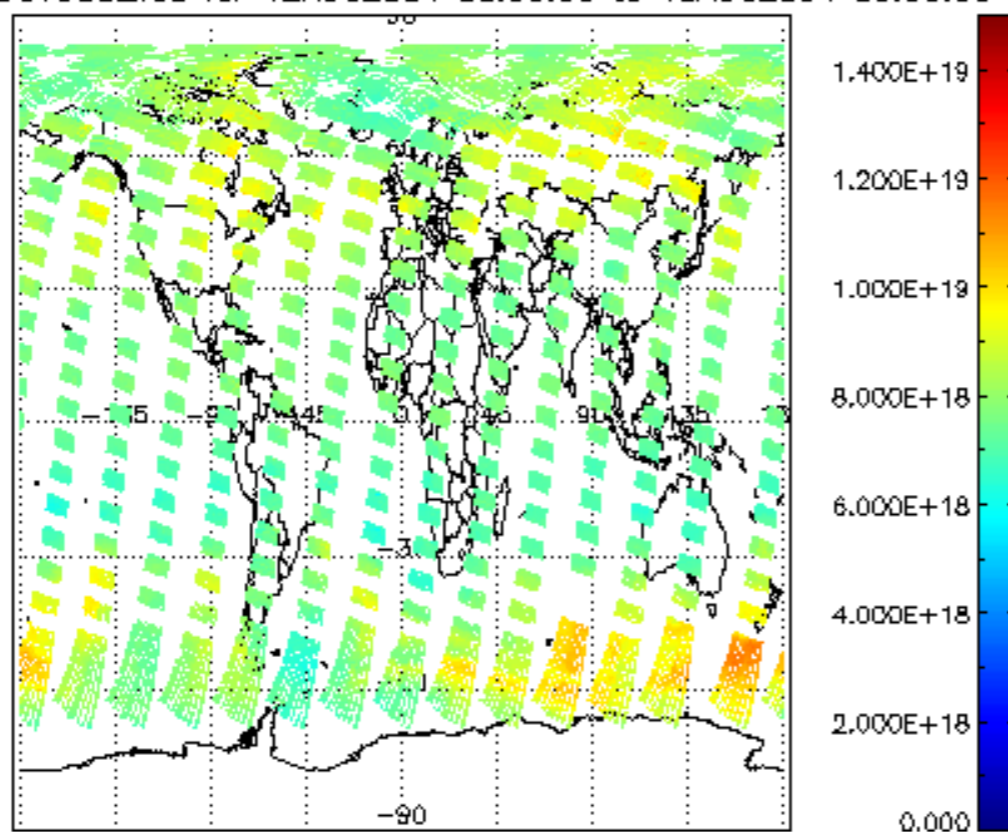


cloud_flags for 12AUG2004 00:00:00 to 13AUG2004 00:00:00

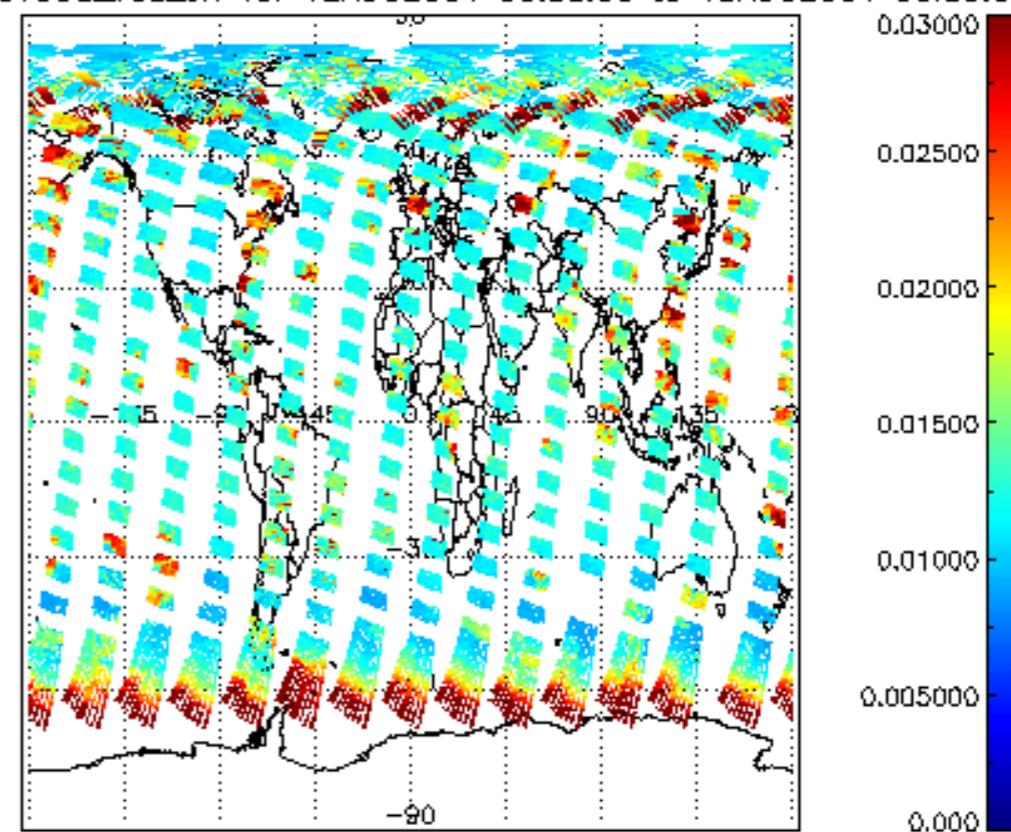




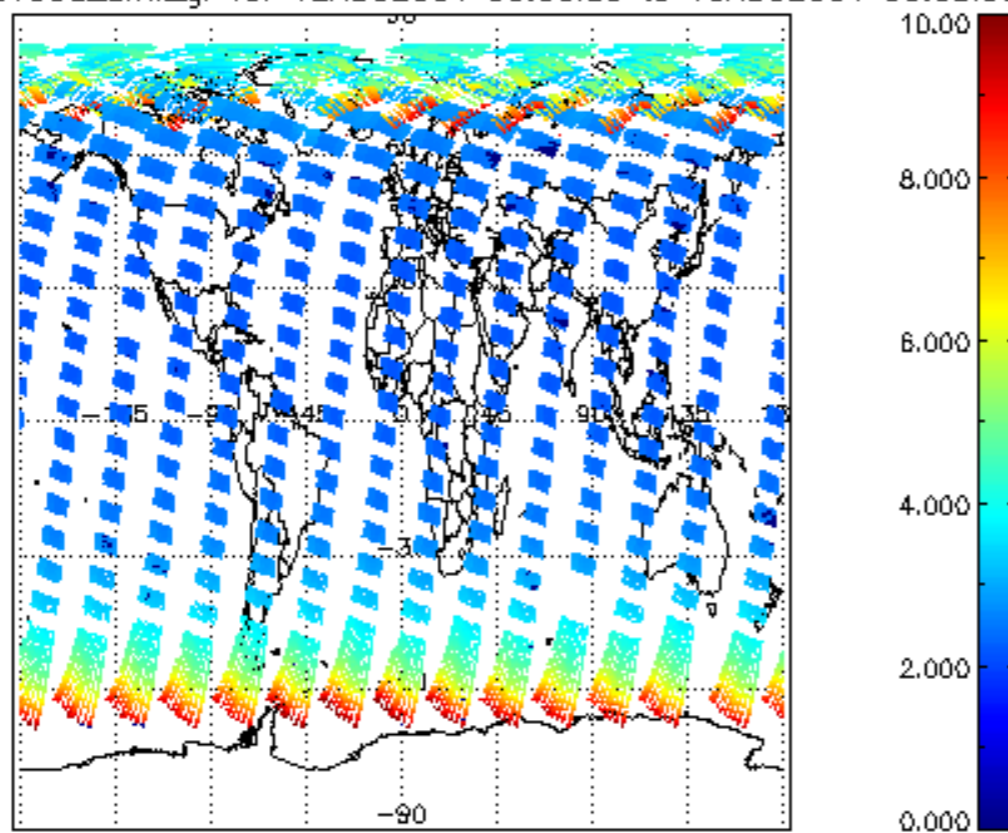
SCIOL2P_NADUV003_vcd for 12AUG2004 00:00:00 to 13AUG2004 00:00:00



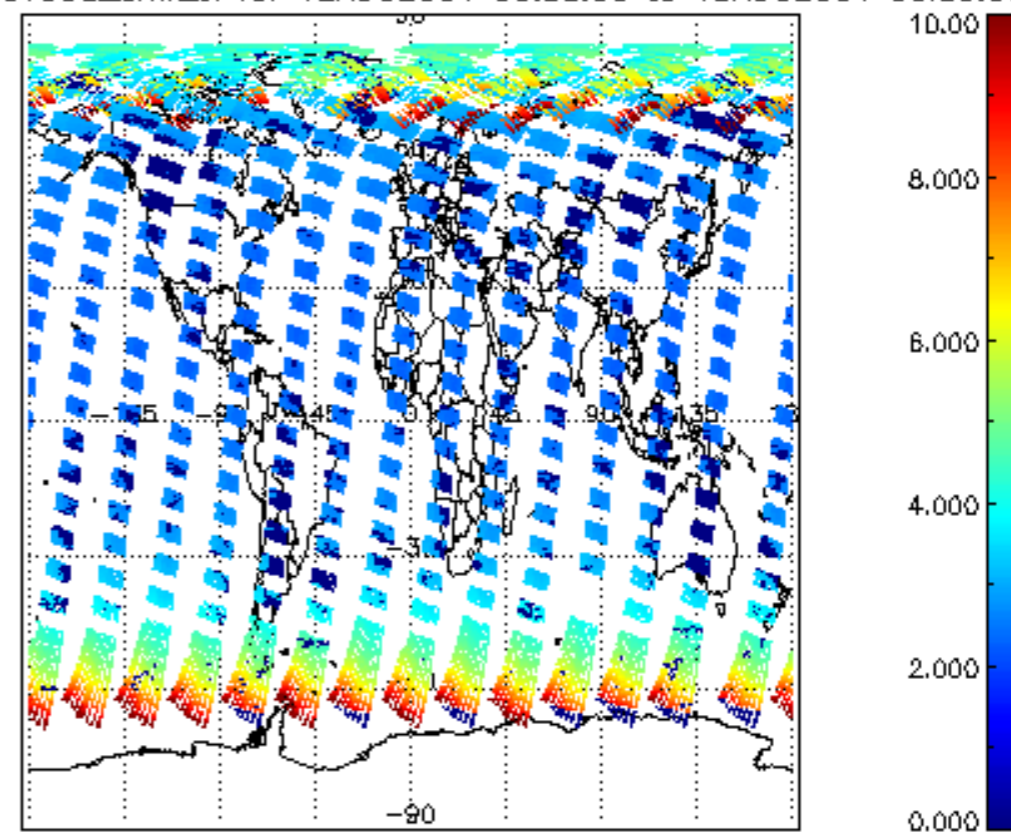
SCIOL2P_NADUV003_vcd_err for 12AUG2004 00:00:00 to 13AUG2004 00:00:00

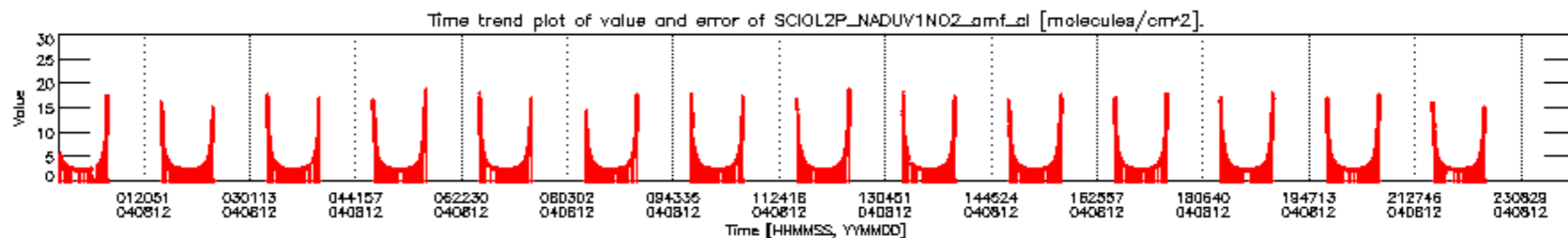
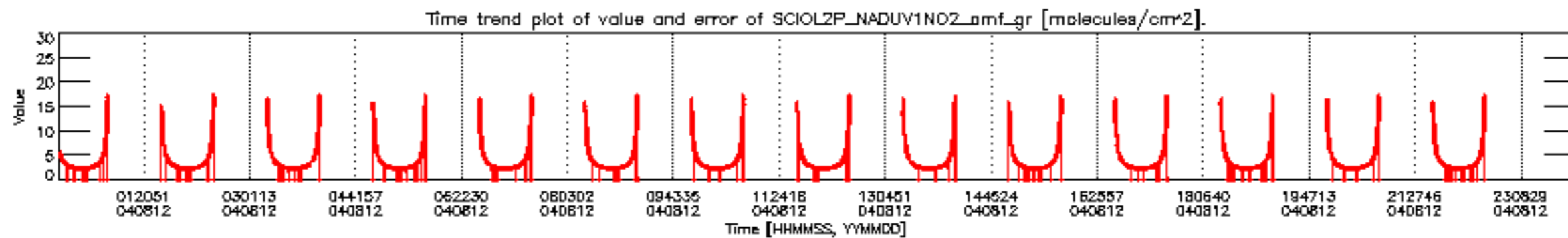
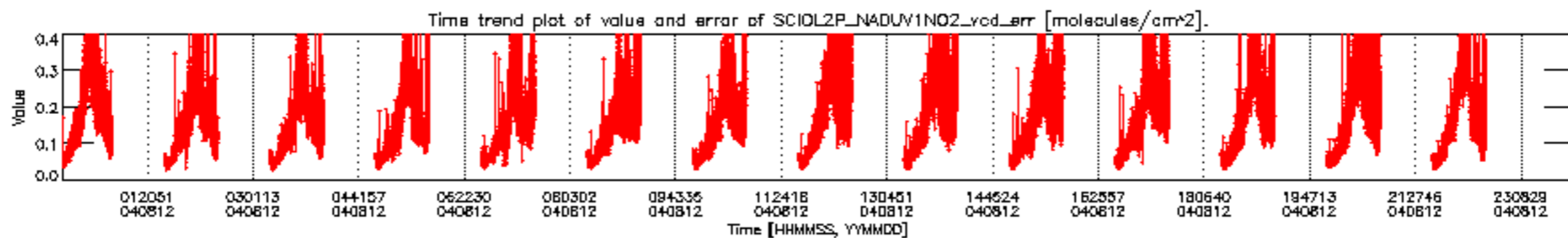
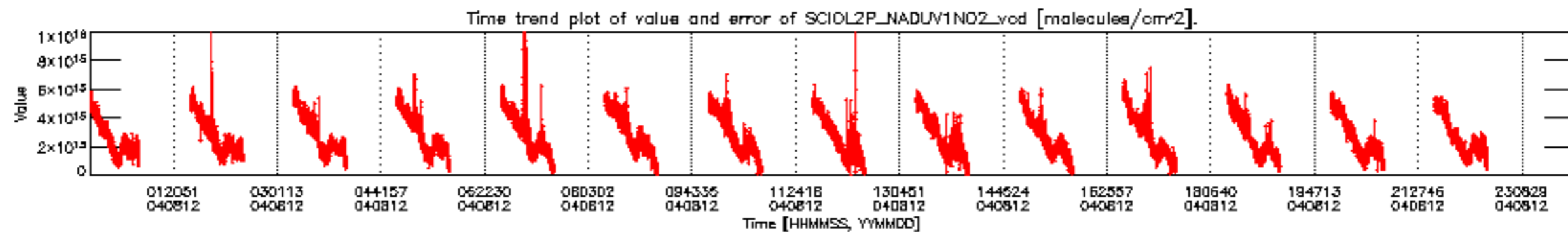


SCIOL2P_NADUV003_amf_gr for 12AUG2004 00:00:00 to 13AUG2004 00:00:00

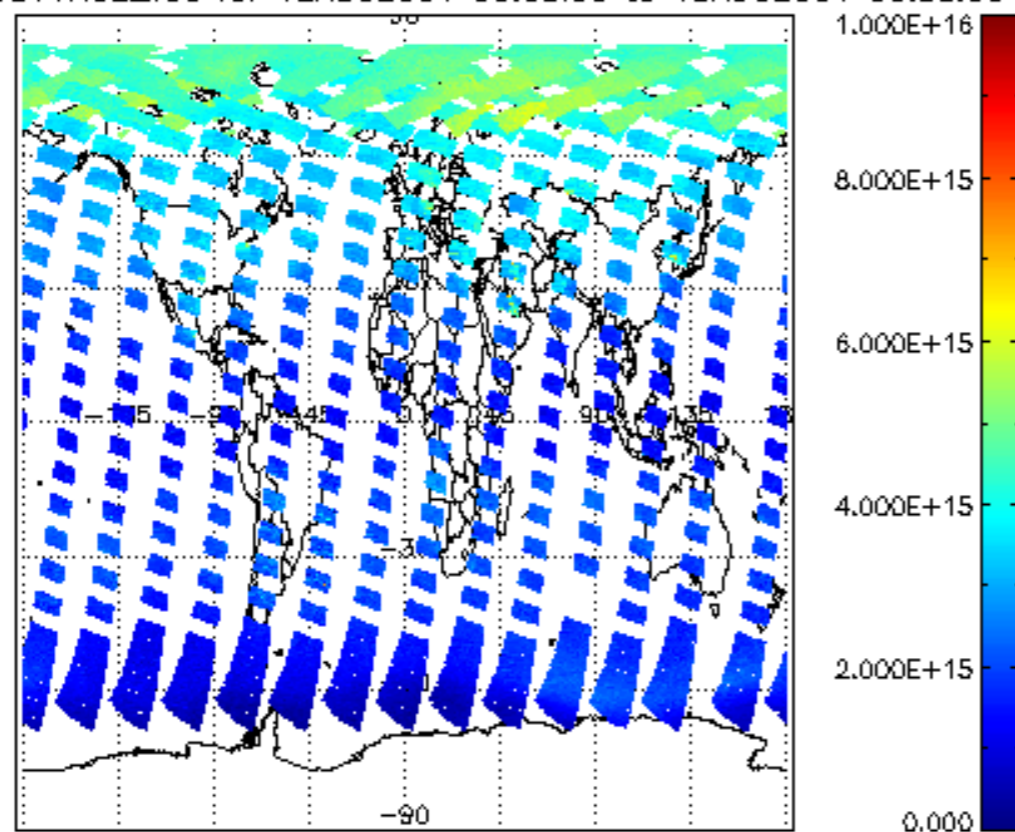


SCIOL2P_NADUV003_amf_cl for 12AUG2004 00:00:00 to 13AUG2004 00:00:00

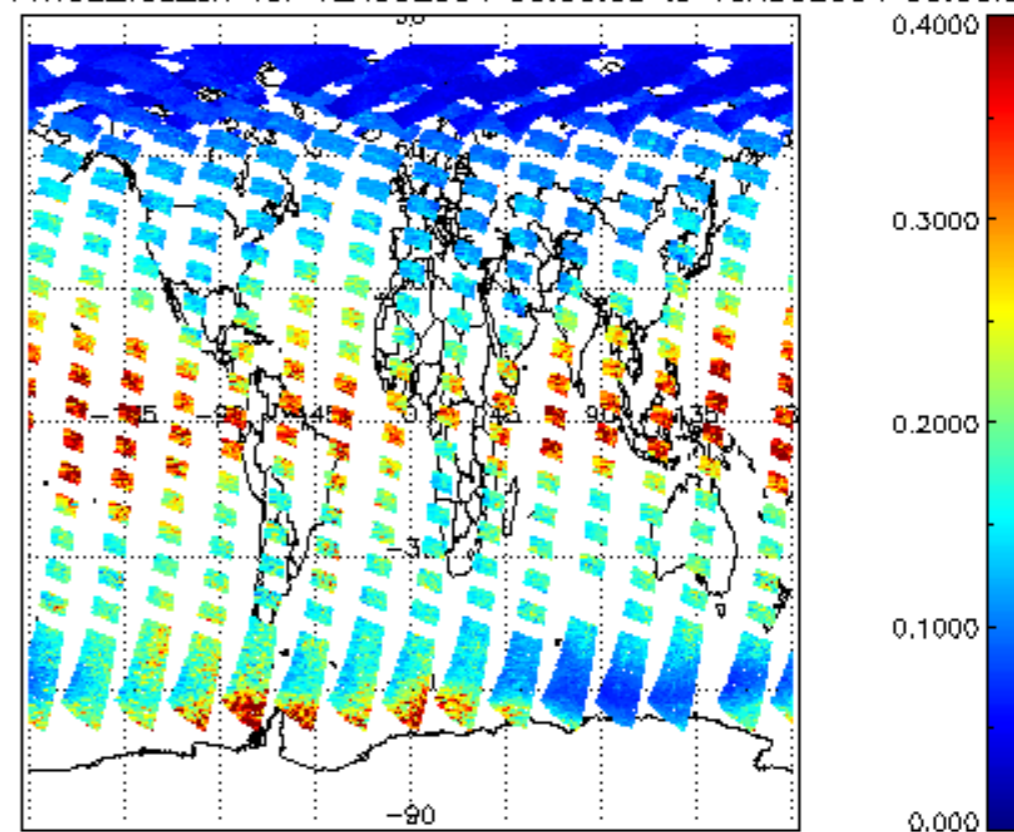




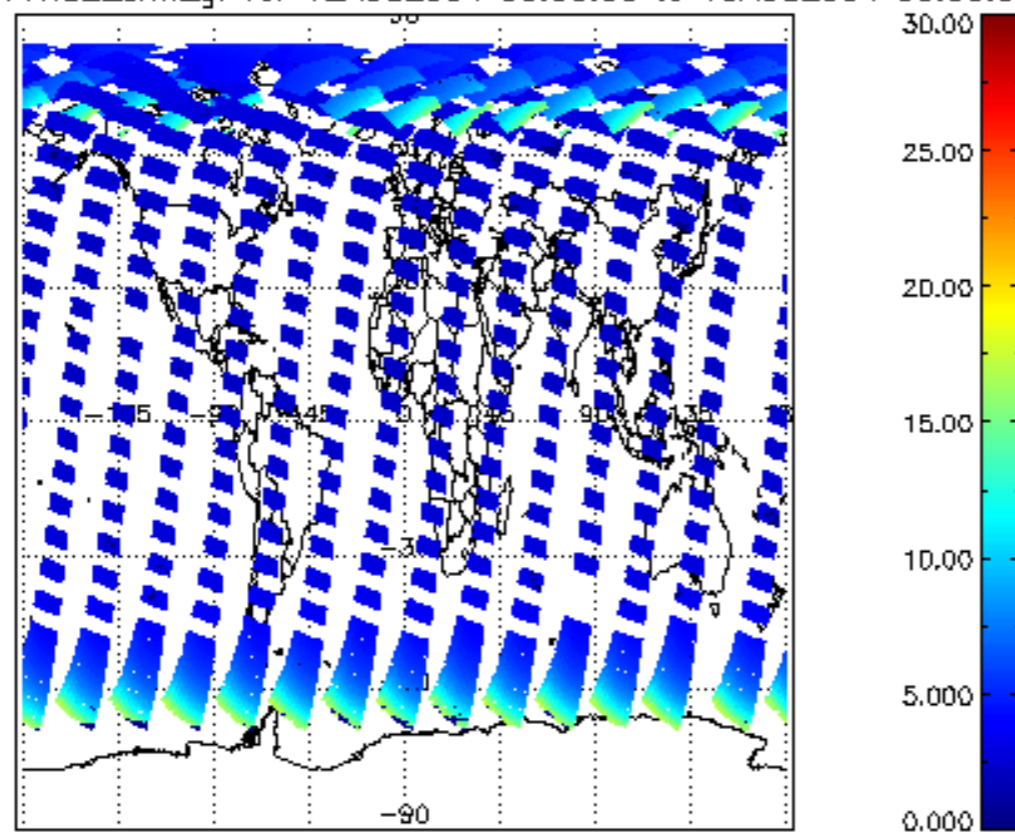
SCIOL2P_NADUV1NO2_vcd for 12AUG2004 00:00:00 to 13AUG2004 00:00:00



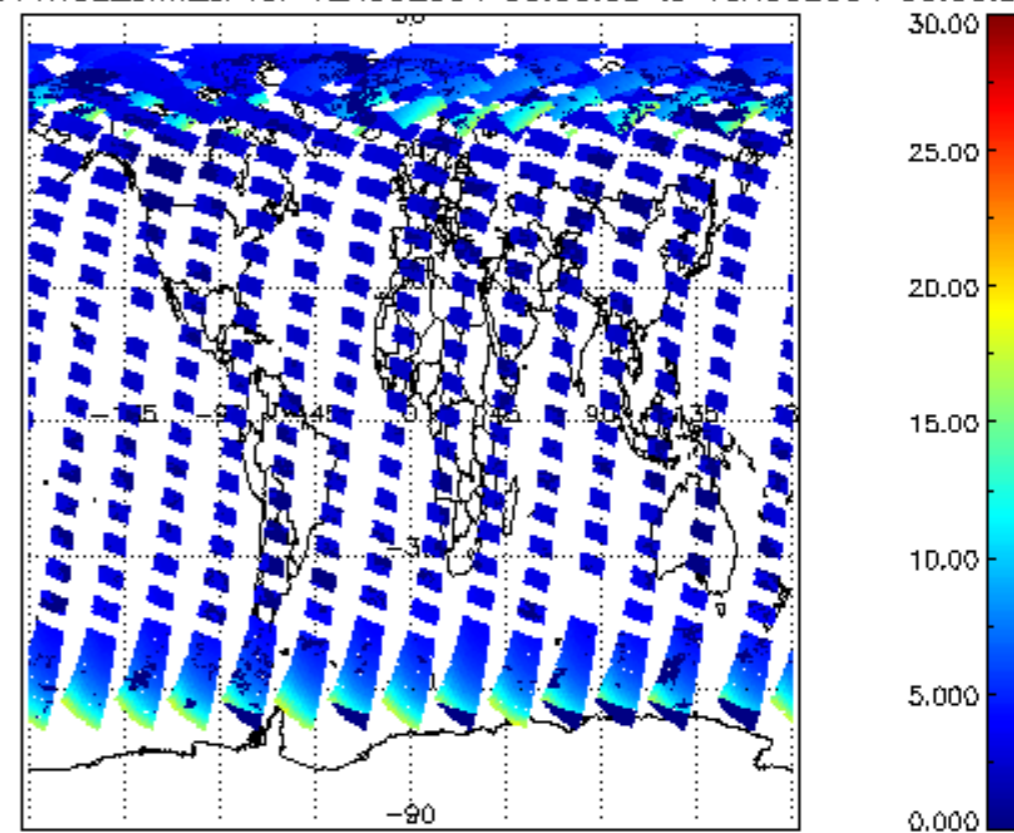
SCIOL2P_NADUV1NO2_vcd_err for 12AUG2004 00:00:00 to 13AUG2004 00:00:00



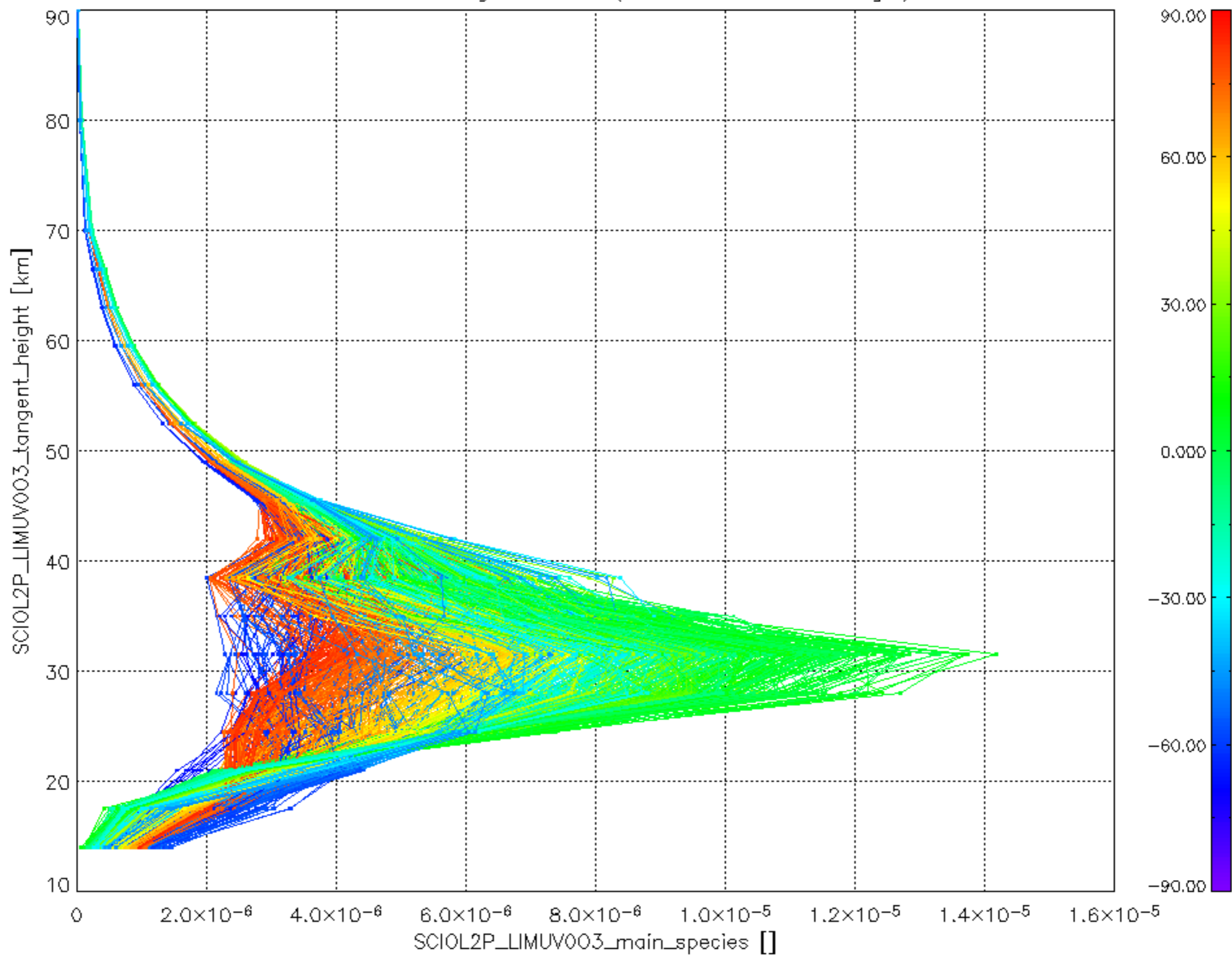
SCIOL2P_NADUV1NO2_amf_gr for 12AUG2004 00:00:00 to 13AUG2004 00:00:00



SCIOL2P_NADUV1NO2_amf_cl for 12AUG2004 00:00:00 to 13AUG2004 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).

