

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	18AUG2008 15:52:55
Data source version	SCIA-OL/3.01-R
Processing scope for products	12MAY2004 00:00:00 to 13MAY2004 00:00:00
Start time of first product within scope	11MAY2004 23:42:22
Stop time of last product within scope	13MAY2004 00:05:35
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__2PRDPA20040511_234222_000032932026_00417_11493_7711.N1	11MAY2004 23:42:22	12MAY2004 00:37:15	0	GOOD
1	SCI_OL__2PRDPA20040512_012257_000033492026_00418_11494_7776.N1	12MAY2004 01:22:57	12MAY2004 02:18:47	0	GOOD
2	SCI_OL__2PRDPA20040512_030333_000032932026_00419_11495_7733.N1	12MAY2004 03:03:33	12MAY2004 03:58:27	0	GOOD
3	SCI_OL__2PRDPA20040512_044409_000033492026_00420_11496_7738.N1	12MAY2004 04:44:09	12MAY2004 05:39:58	0	GOOD
4	SCI_OL__2PRDPA20040512_062445_000032932026_00421_11497_7734.N1	12MAY2004 06:24:45	12MAY2004 07:19:38	0	GOOD
5	SCI_OL__2PRDPA20040512_080520_000033492026_00422_11498_7732.N1	12MAY2004 08:05:20	12MAY2004 09:01:10	0	GOOD
6	SCI_OL__2PRDPA20040512_094556_000032932026_00423_11499_7808.N1	12MAY2004 09:45:56	12MAY2004 10:40:49	0	GOOD
7	SCI_OL__2PRDPA20040512_112632_000033492026_00424_11500_7757.N1	12MAY2004 11:26:32	12MAY2004 12:22:21	0	GOOD
8	SCI_OL__2PRDPA20040512_130707_000032932026_00425_11501_7742.N1	12MAY2004 13:07:07	12MAY2004 14:02:01	0	GOOD
9	SCI_OL__2PRDPA20040512_144743_000033492026_00426_11502_7737.N1	12MAY2004 14:47:43	12MAY2004 15:43:32	0	GOOD
10	SCI_OL__2PRDPA20040512_162819_000032932026_00427_11503_7755.N1	12MAY2004 16:28:19	12MAY2004 17:23:12	0	GOOD
11	SCI_OL__2PRDPA20040512_180854_000033522026_00428_11504_7814.N1	12MAY2004 18:08:54	12MAY2004 19:04:46	0	GOOD
12	SCI_OL__2PRDPA20040512_194850_000033492026_00429_11505_7748.N1	12MAY2004 19:48:50	12MAY2004 20:44:39	0	GOOD
13	SCI_OL__2PRDPA20040512_213006_000033492026_00430_11506_7809.N1	12MAY2004 21:30:06	12MAY2004 22:25:55	0	GOOD
14	SCI_OL__2PRDPA20040512_231041_000032932026_00431_11507_7826.N1	12MAY2004 23:10:41	13MAY2004 00:05:35	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: 115340

Total number of cloud data DSRs with good quality flag (=0): 115340 (100.0 %)

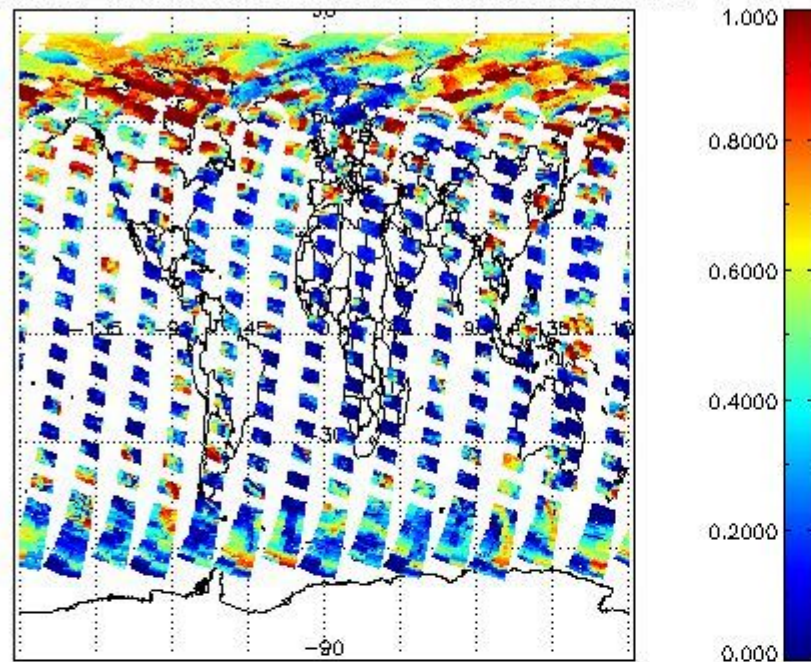
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	115340	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	115340	0.21684	0.25000	0.12500	1.0000	0.084512	s
CL_FRAC	115340	0.40834	0.38053	0.0000	1.0000	0.32170	-
CL_FRAC_ERR	115340	0.0000	0.0000	0.0000	0.0000	0.0000	rel. fraction
PMD_READ	115340	6.9388	8.0000	4.0000	32.000	2.7044	
PMD_READ_CL[0]	115340	0.55899	0.0000	0.0000	16.000	1.7804	-
PMD_READ_CL[1]	115340	1.2957	0.0000	0.0000	32.000	2.6647	-
CL_TOP_HEIGHT	105299	3.1497	1.2650	0.0000	17.000	3.6358	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	105299	55.925	48.890	0.0000	101.00	41.921	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	115340	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	115340	11001001	11000010	11000000	11100000	3136.3	flags
AERO_ABSO_IND	115340	0.76954	0.77930	-3.5973	12.716	1.0154	
AERO_IND_DIAG	115340	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	115340	01101010	11000000	00000000	11000000	24416.	flags

Time and geolocation plots:

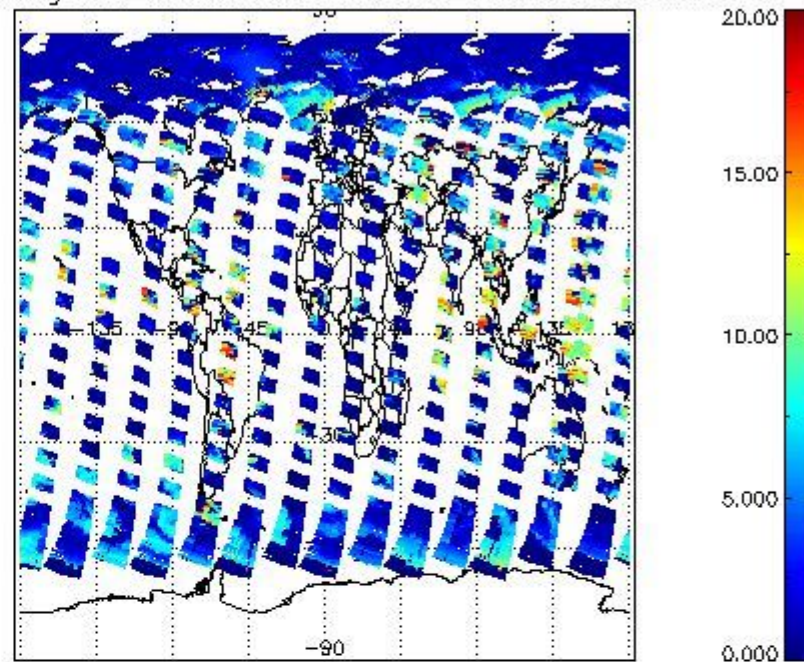
Plots are available for the following parameters:

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

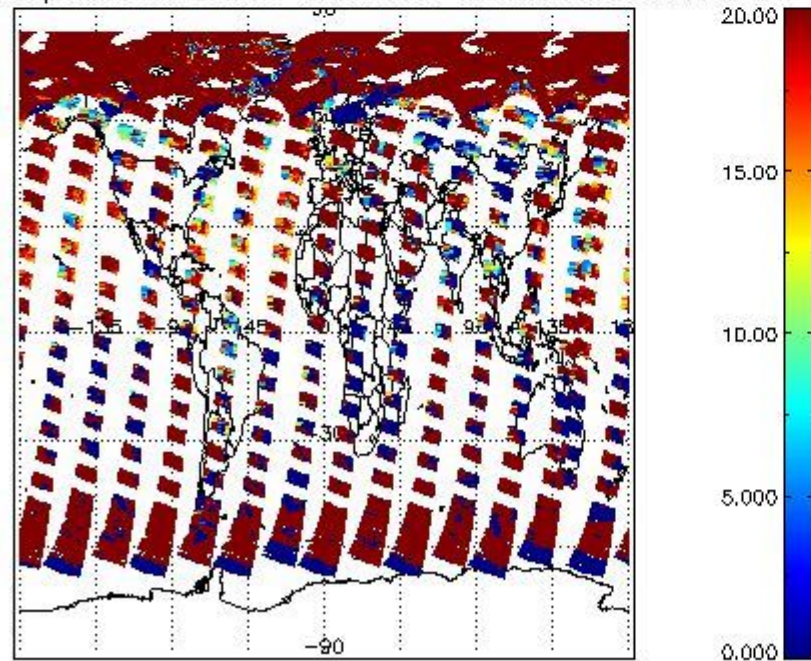
cL_frac for 12MAY2004 00:00:00 to 13MAY2004 00:00:00



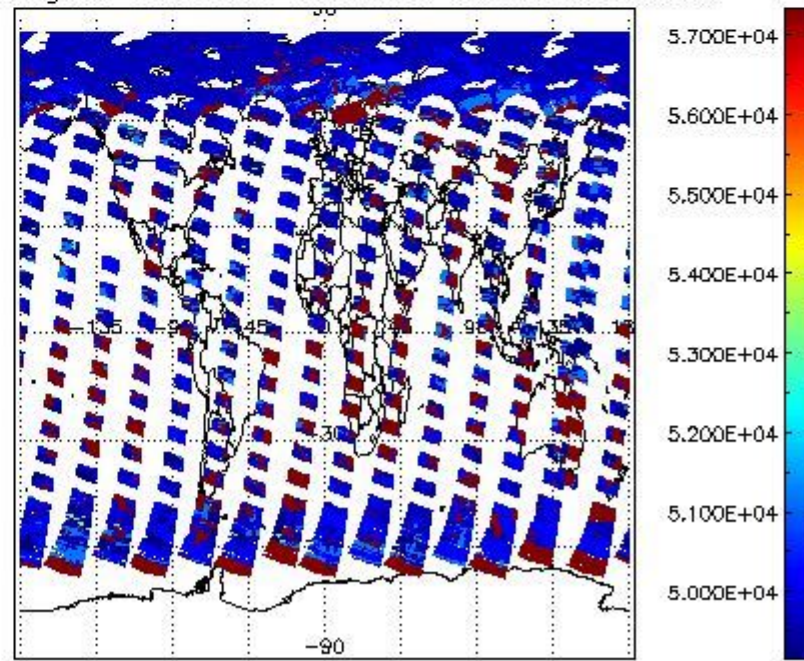
cL_top_height for 12MAY2004 00:00:00 to 13MAY2004 00:00:00



cL_opt_depth for 12MAY2004 00:00:00 to 13MAY2004 00:00:00



cloud_flags for 12MAY2004 00:00:00 to 13MAY2004 00:00:00



2.2.2 Nadir

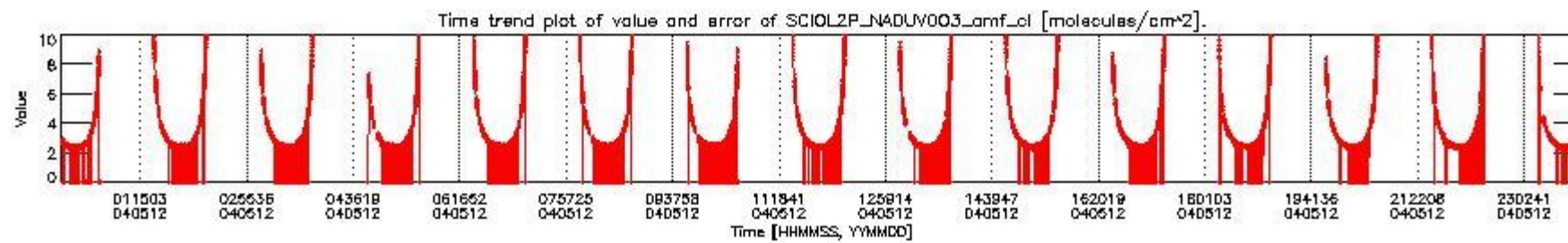
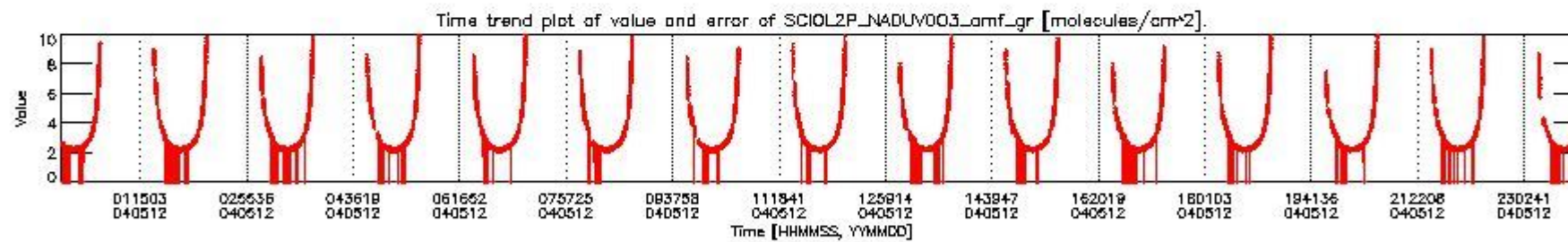
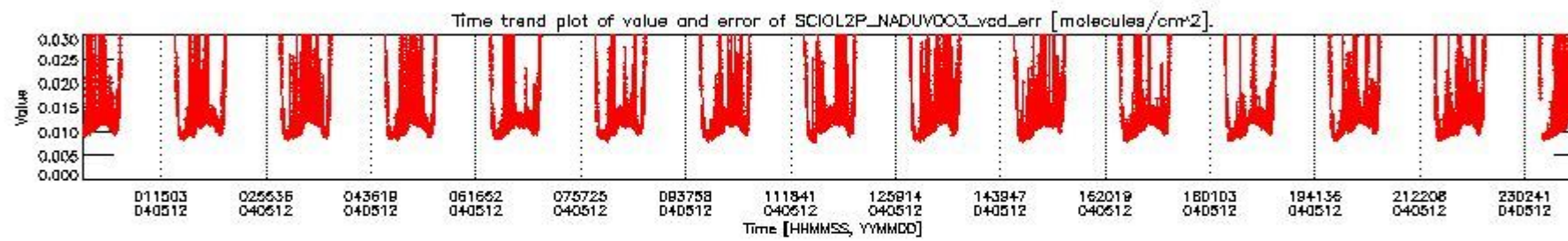
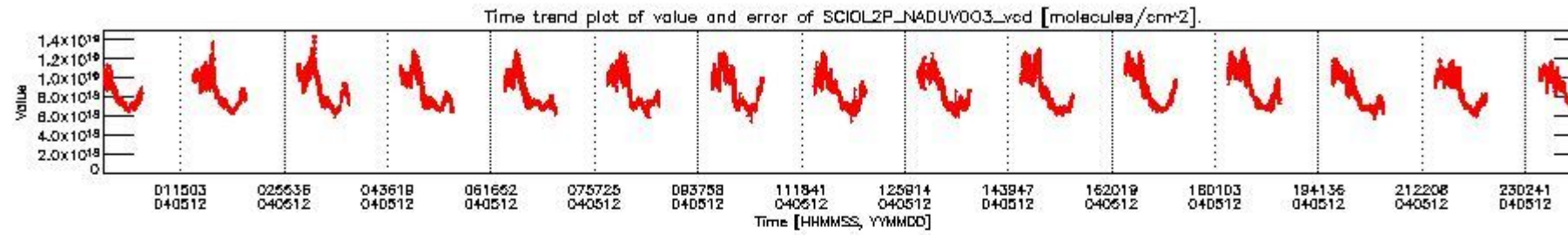
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

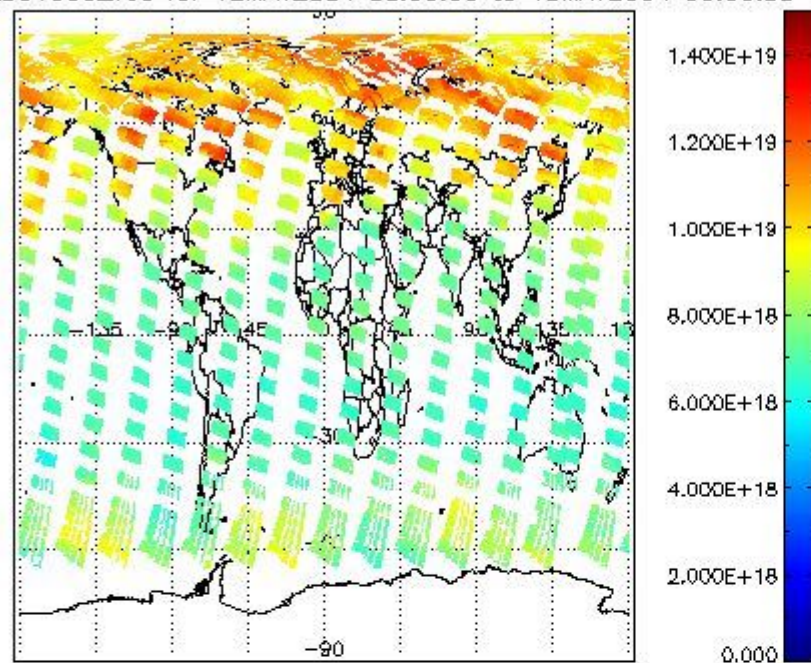
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

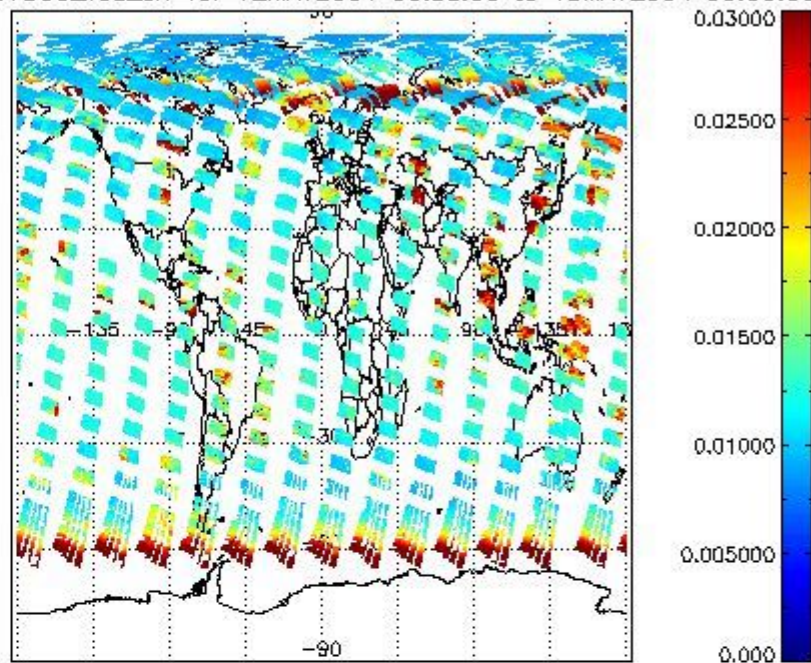
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



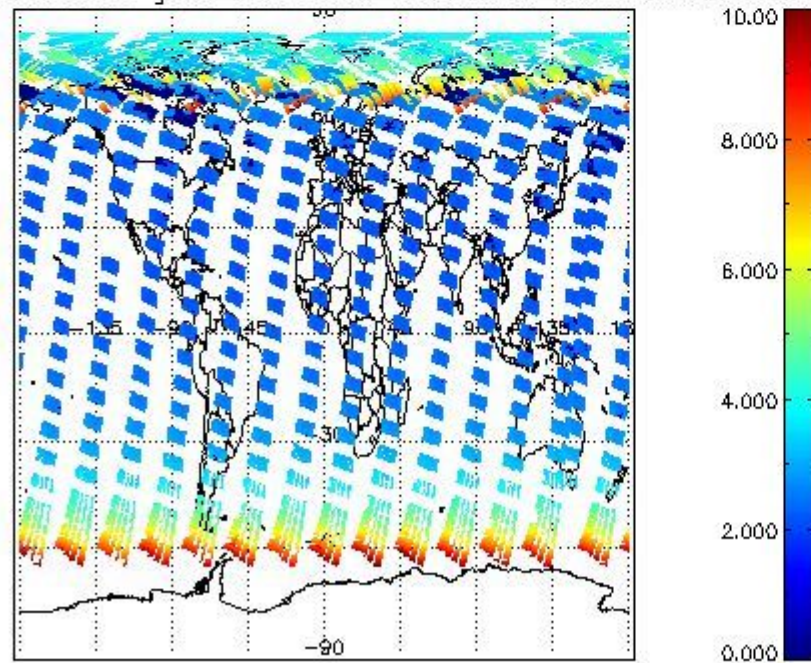
SCIOL2P_NADUV003_vcd for 12MAY2004 00:00:00 to 13MAY2004 00:00:00



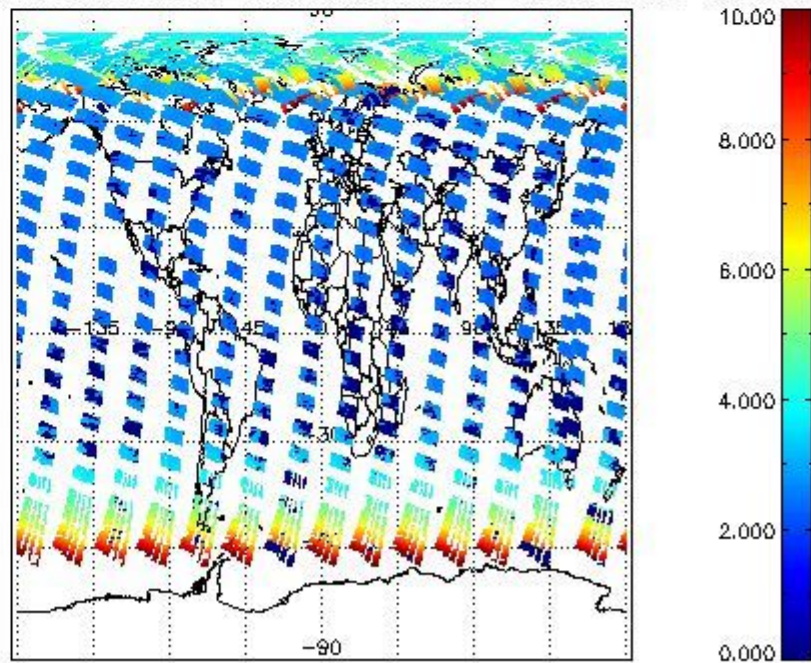
SCIOL2P_NADUV003_vcd_err for 12MAY2004 00:00:00 to 13MAY2004 00:00:00

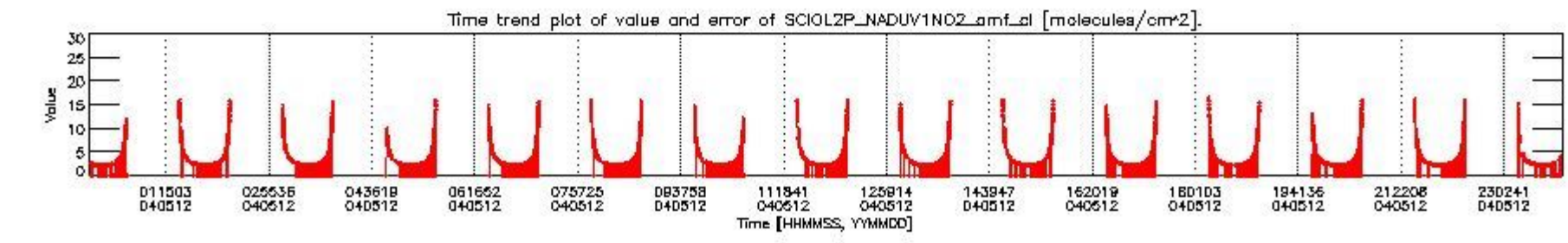
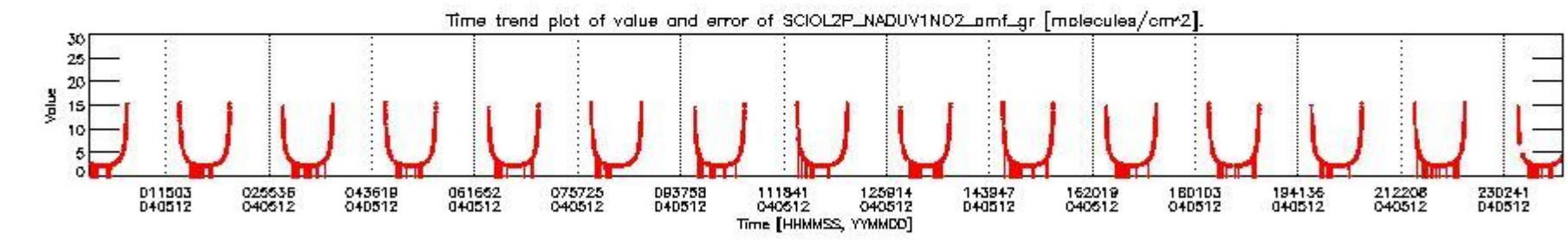
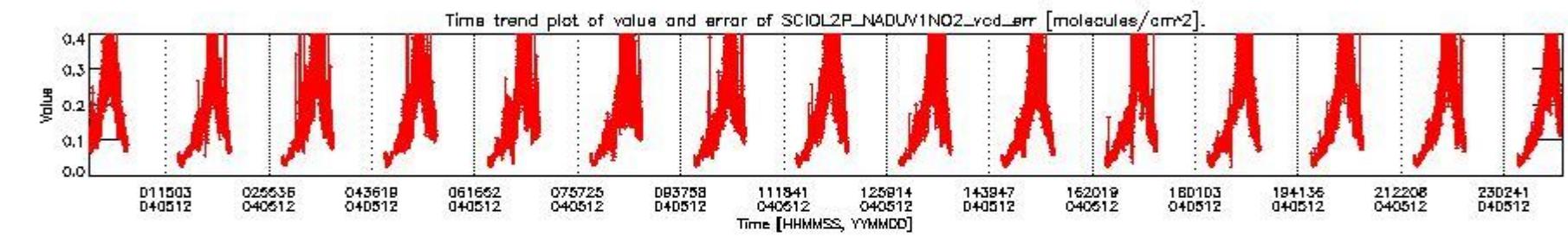
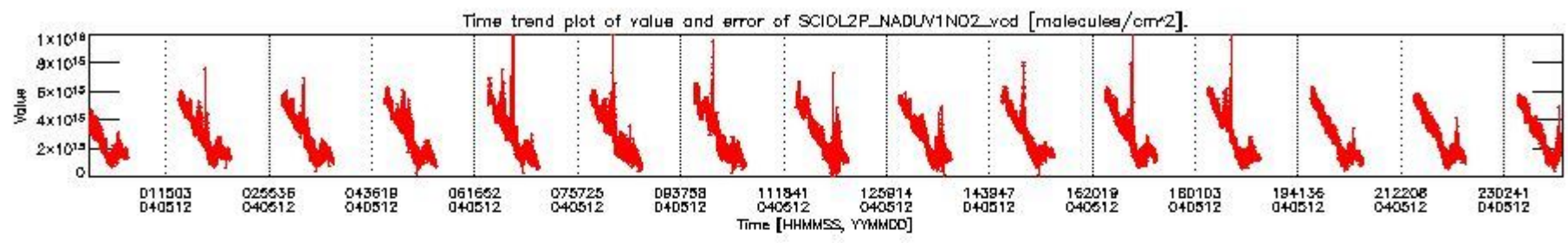


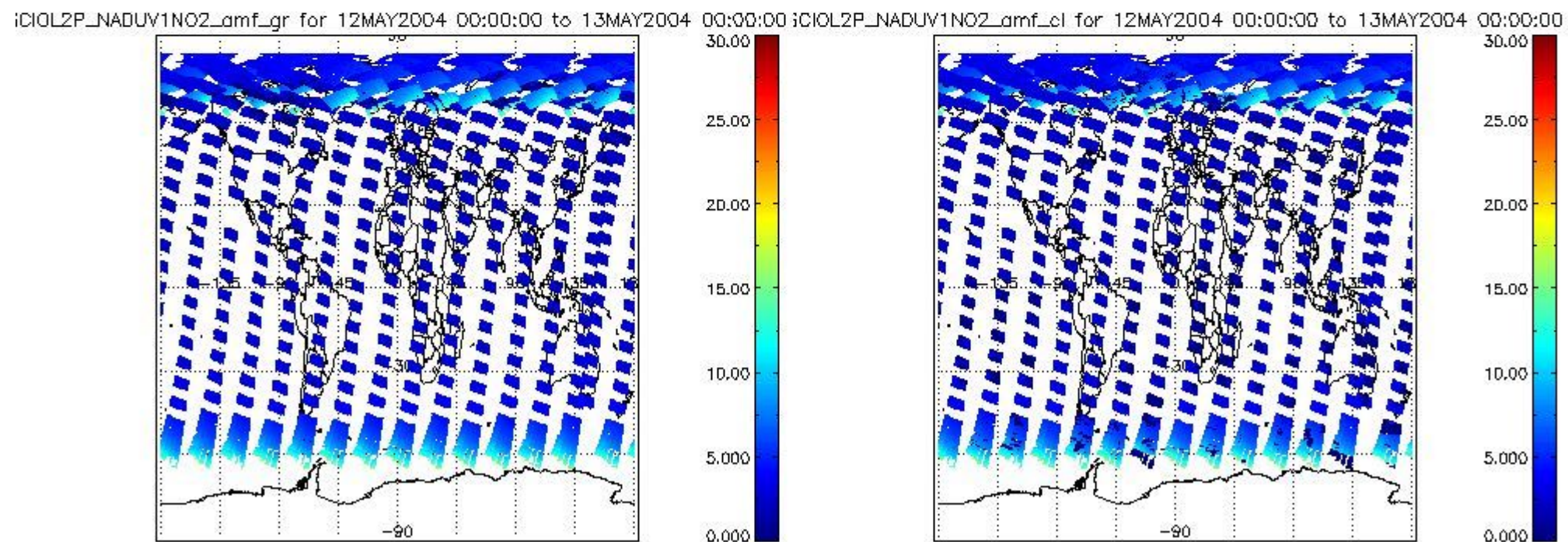
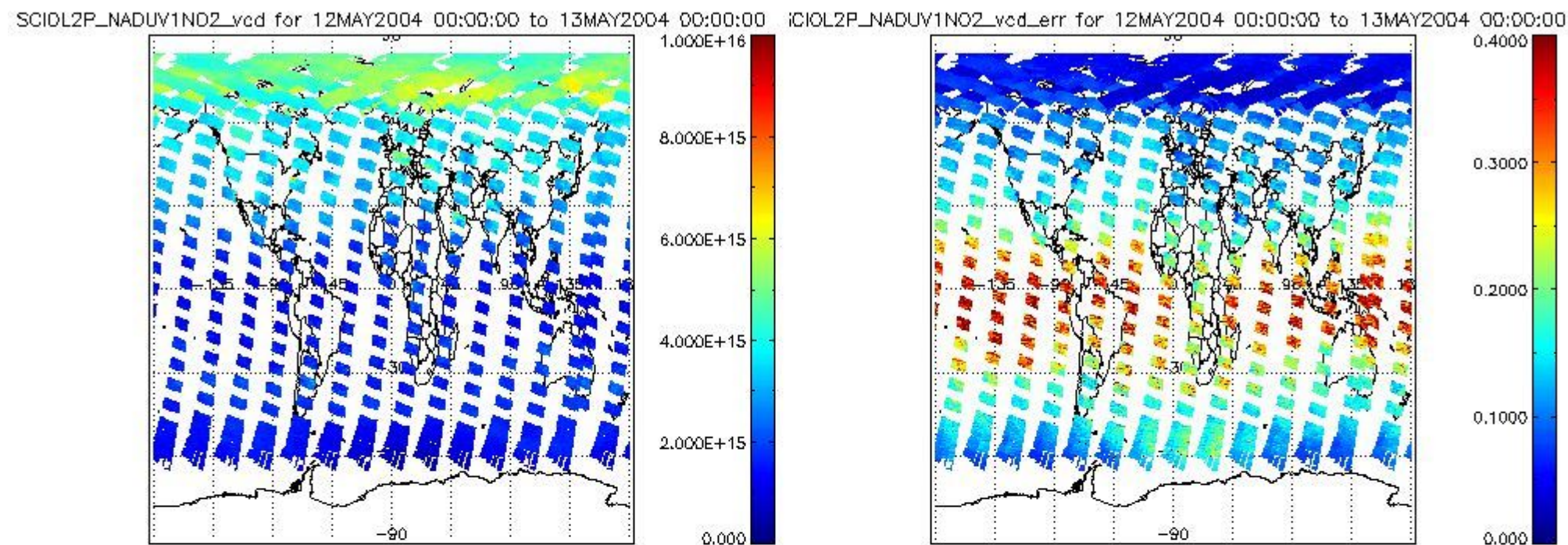
SCIOL2P_NADUV003_amf_gr for 12MAY2004 00:00:00 to 13MAY2004 00:00:00



SCIOL2P_NADUV003_amf_sl for 12MAY2004 00:00:00 to 13MAY2004 00:00:00







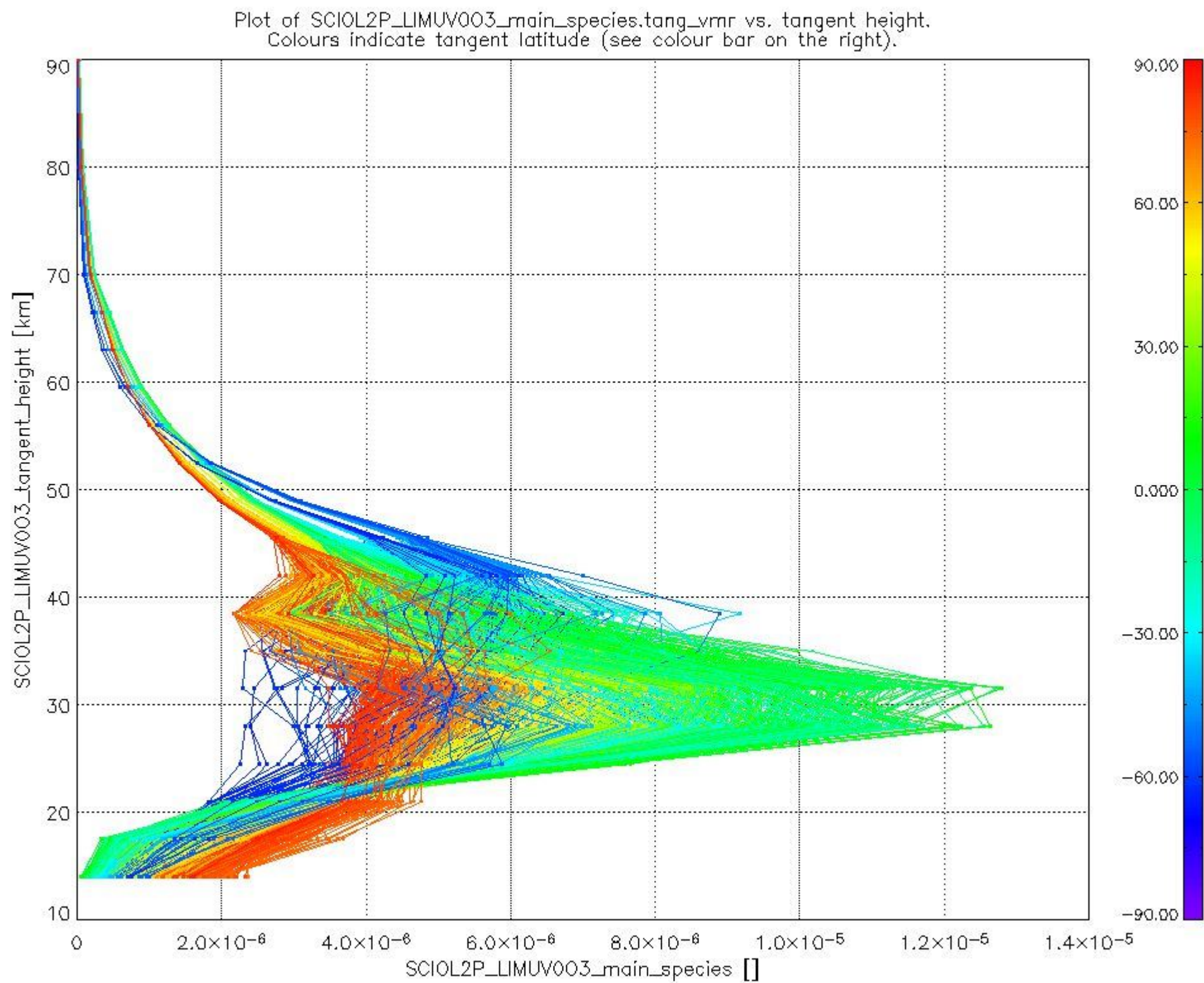
2.2.3 Limb

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

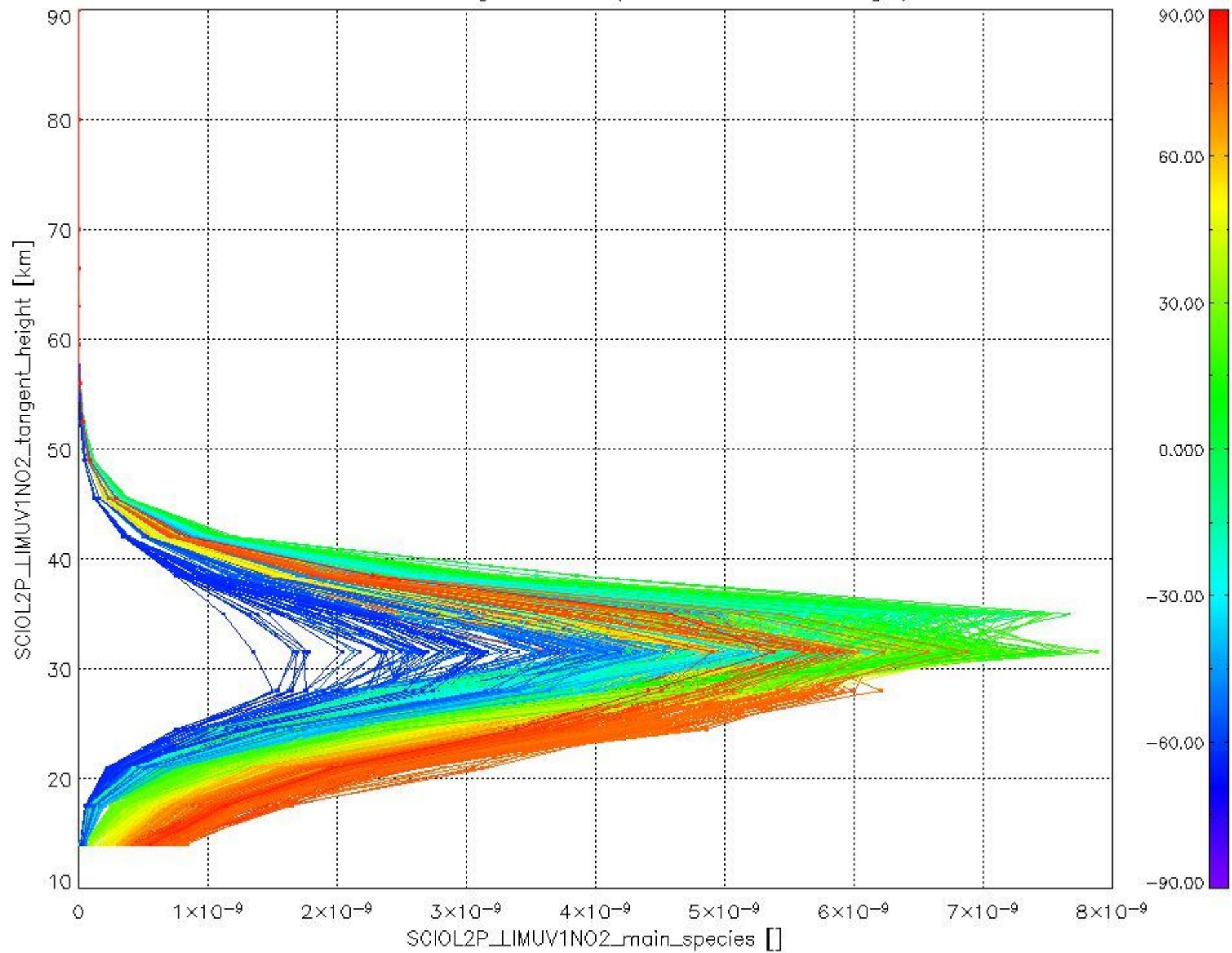
The following data items are currently included into this section:

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.



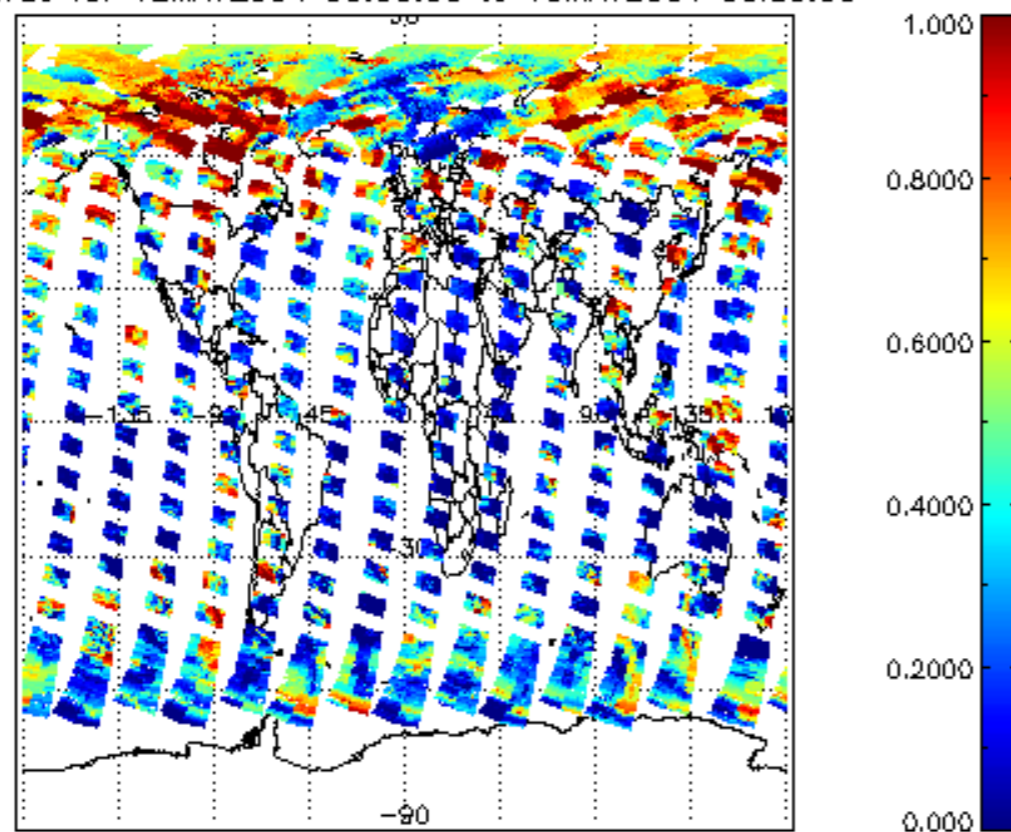
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



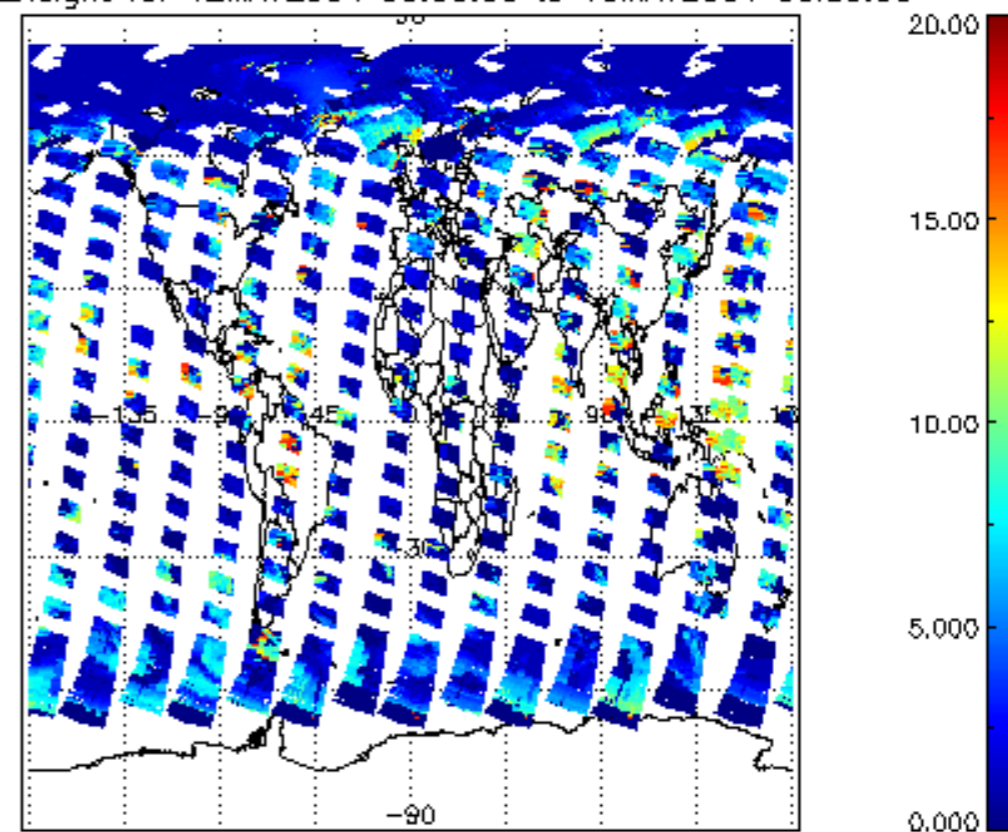
2.3 ADF monitoring

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

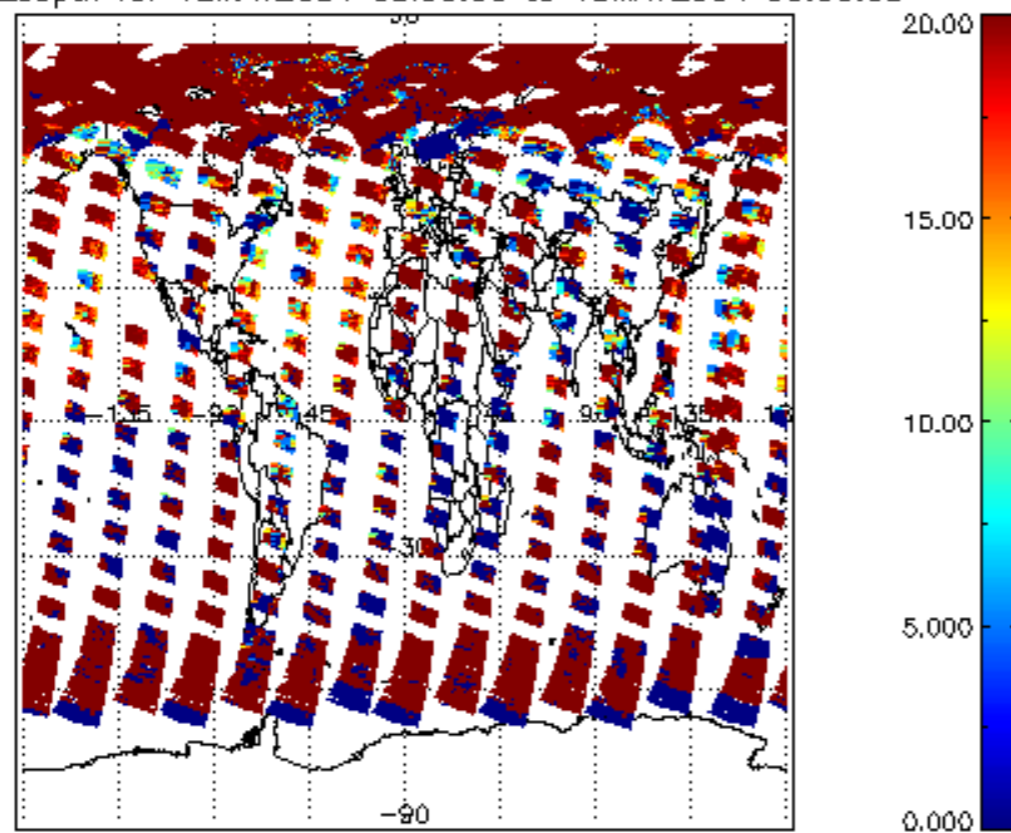
cl_frac for 12MAY2004 00:00:00 to 13MAY2004 00:00:00



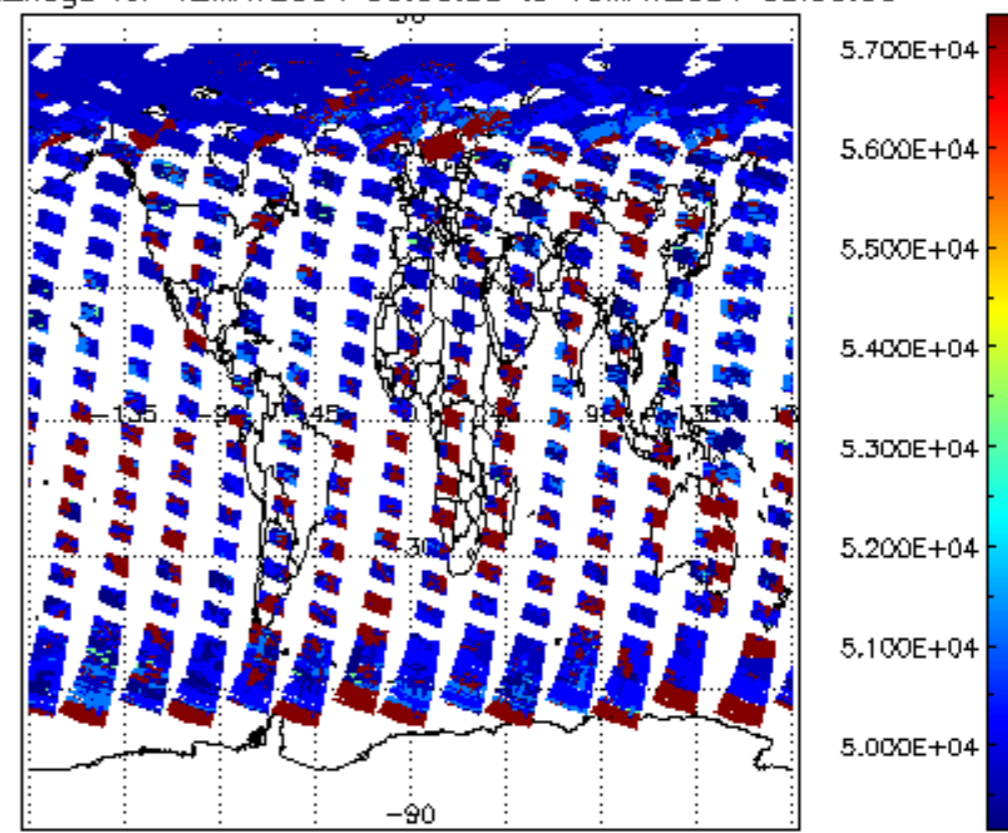
cl_top_height for 12MAY2004 00:00:00 to 13MAY2004 00:00:00

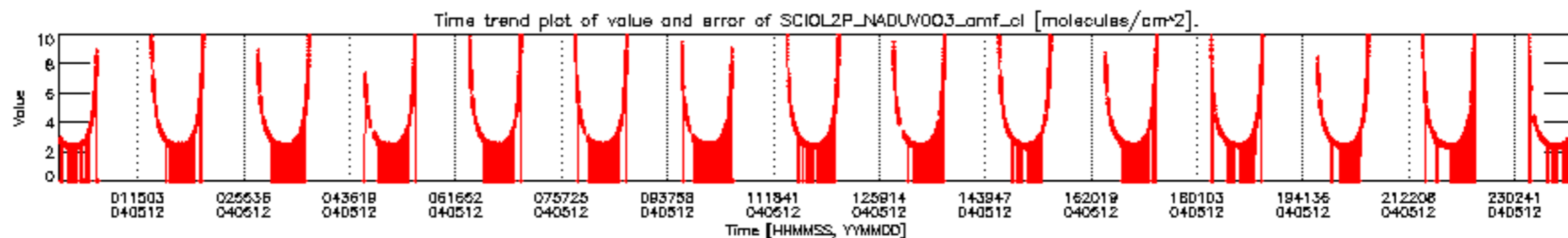
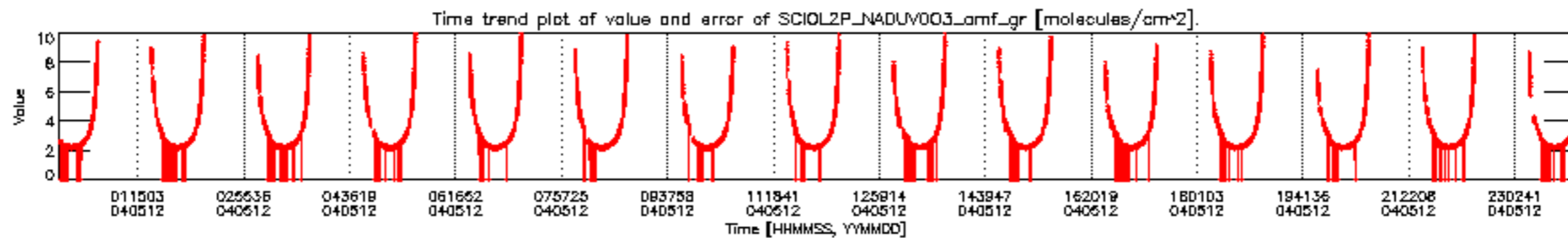
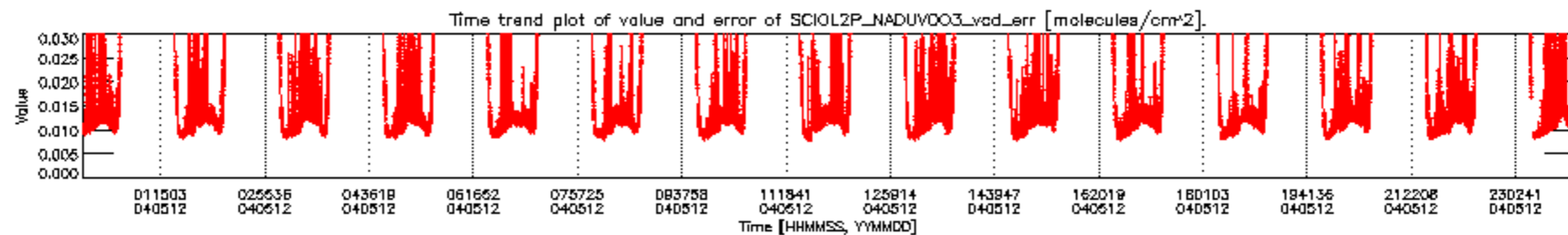
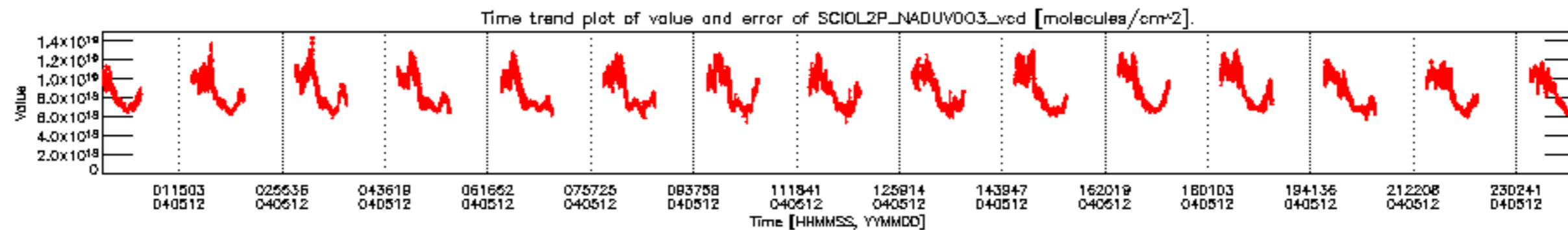


cl_opt_depth for 12MAY2004 00:00:00 to 13MAY2004 00:00:00

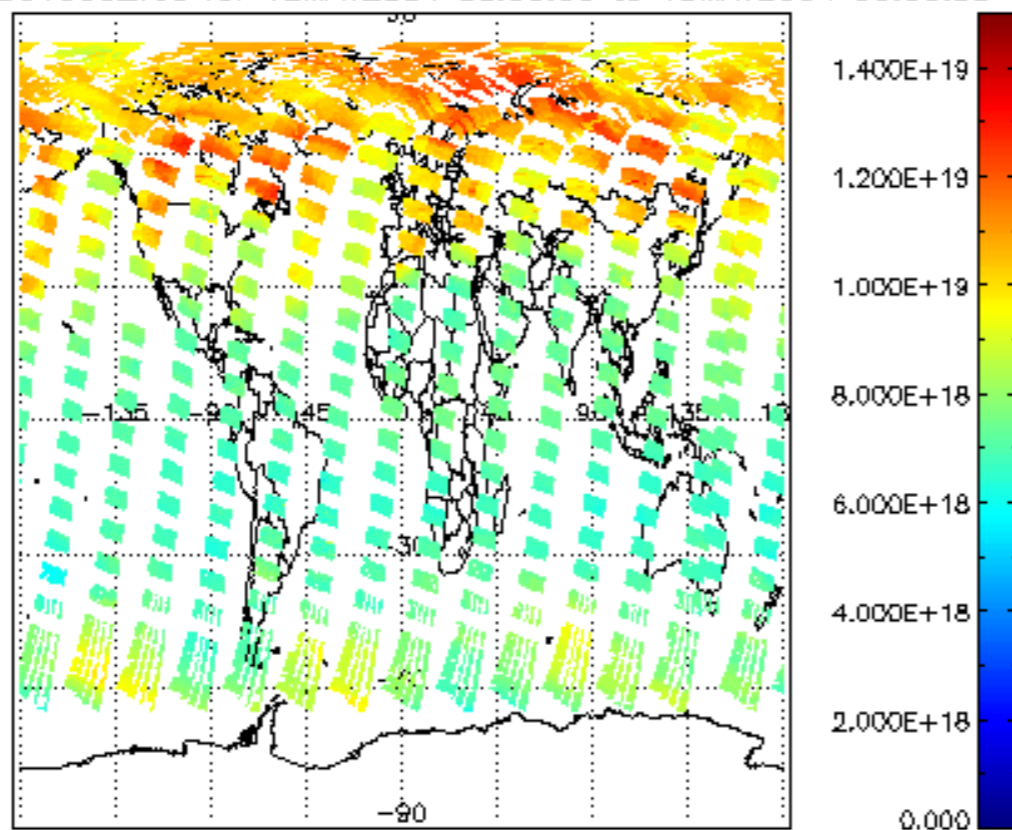


cloud_flags for 12MAY2004 00:00:00 to 13MAY2004 00:00:00

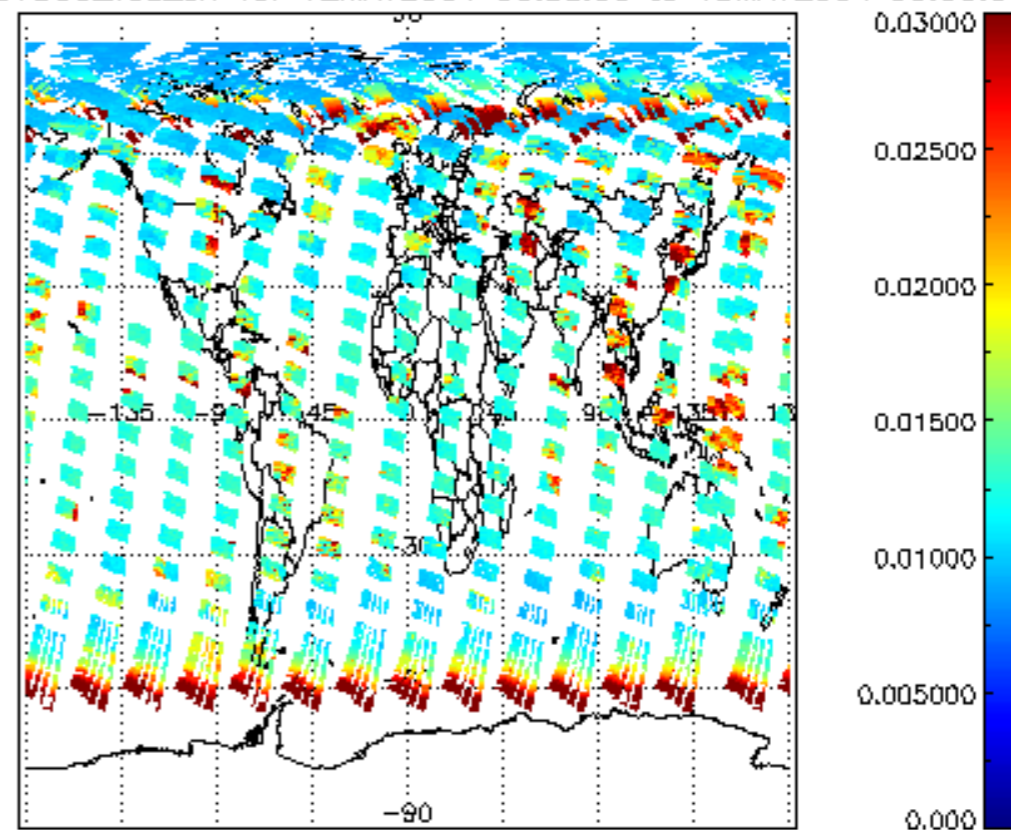




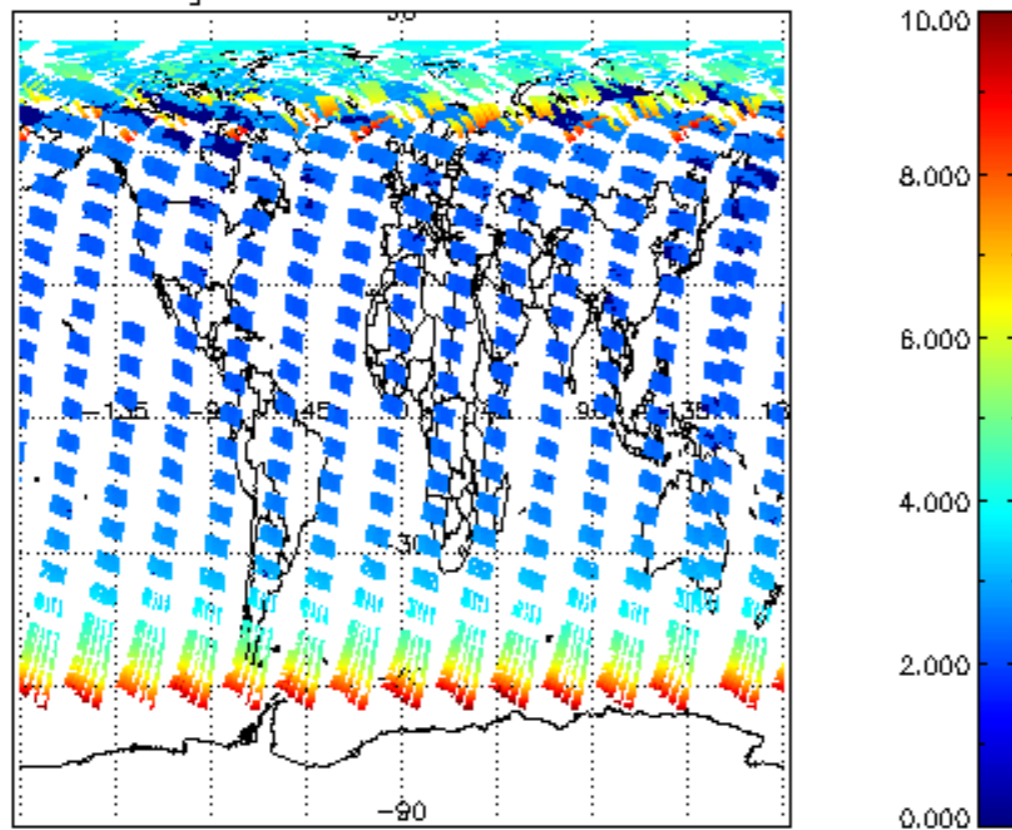
SCIOL2P_NADUV003_vcd for 12MAY2004 00:00:00 to 13MAY2004 00:00:00



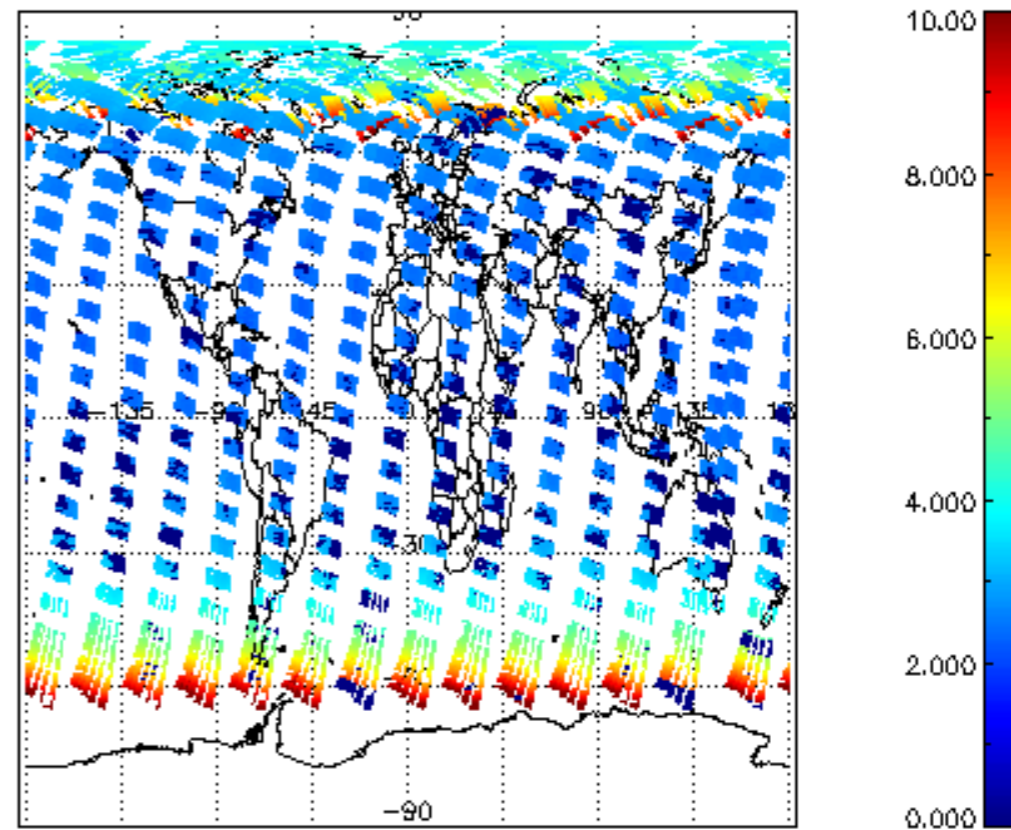
SCIOL2P_NADUV003_vcd_err for 12MAY2004 00:00:00 to 13MAY2004 00:00:00

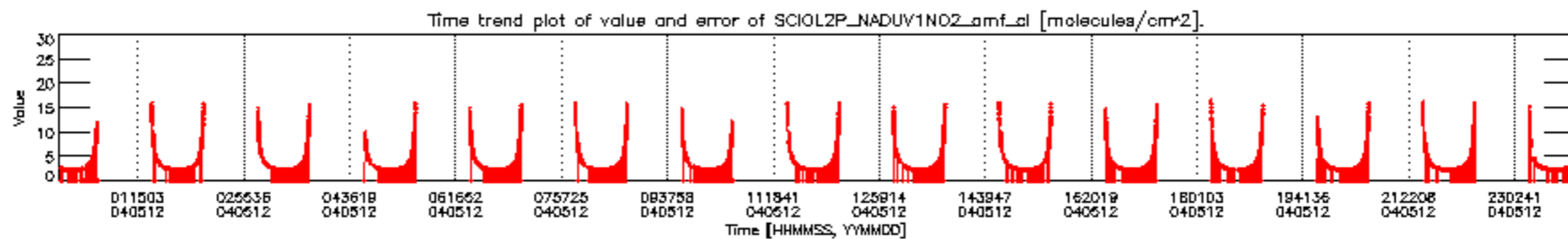
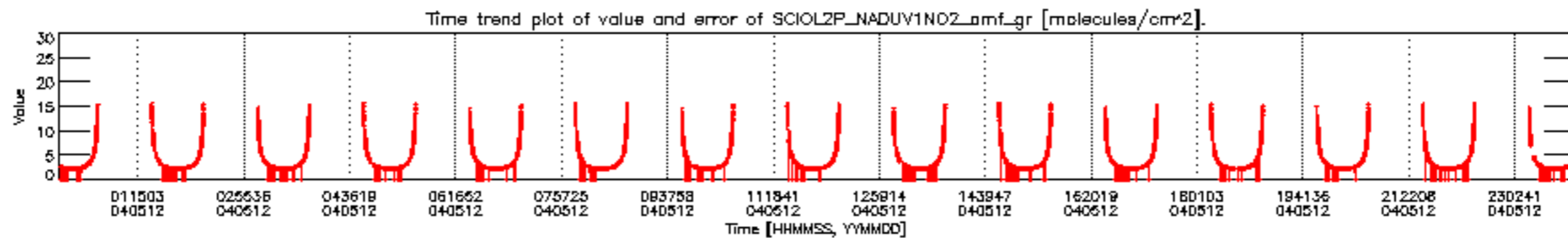
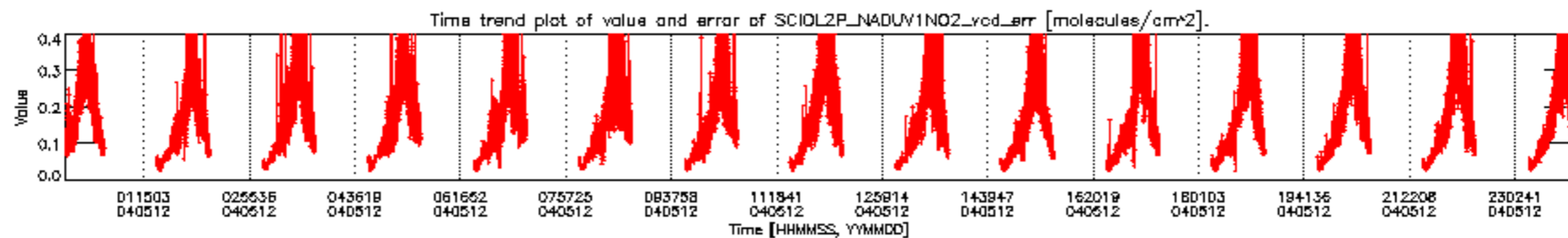
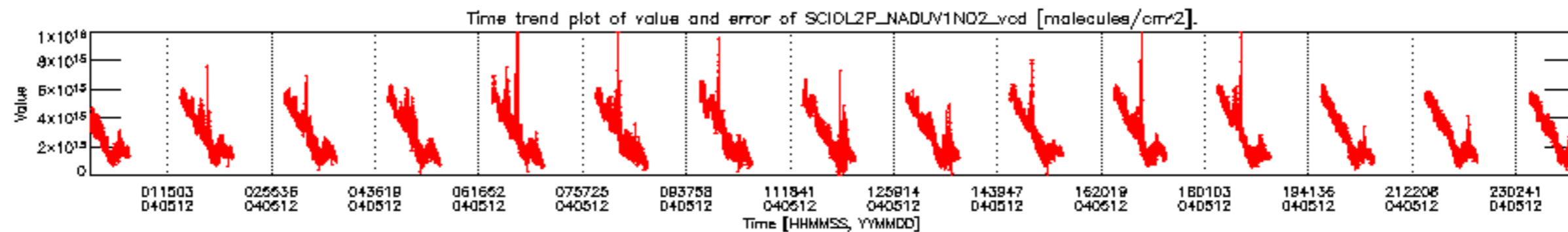


SCIOL2P_NADUV003_amf_gr for 12MAY2004 00:00:00 to 13MAY2004 00:00:00

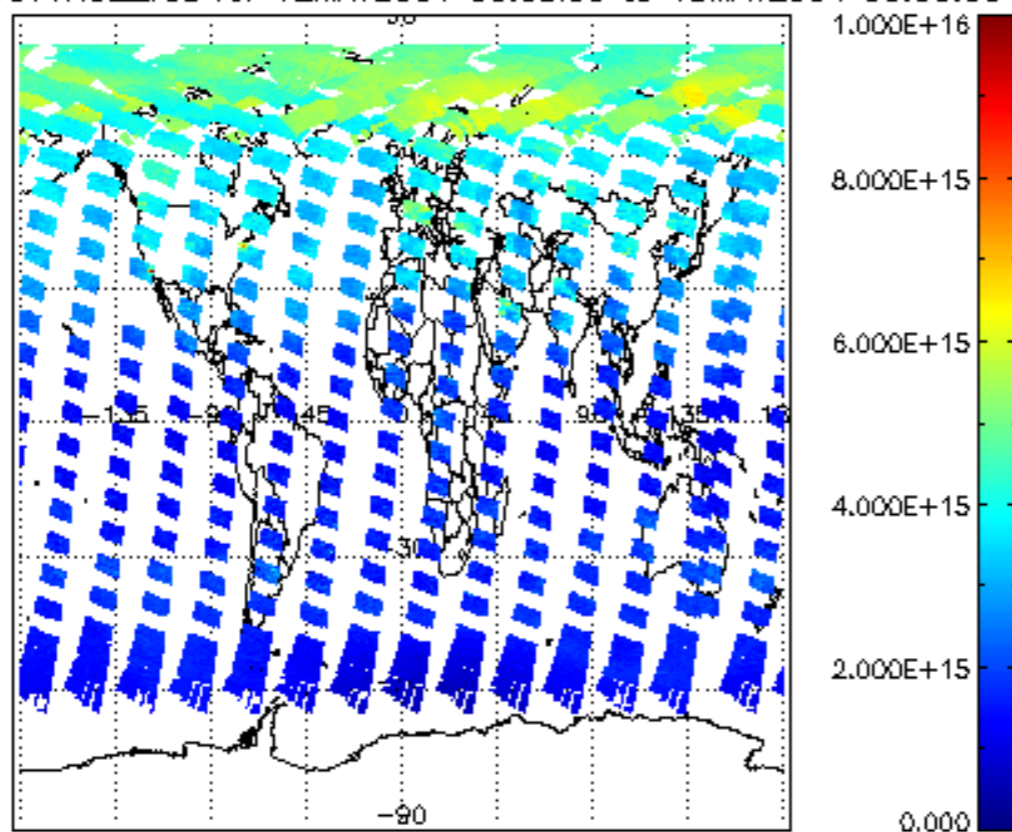


SCIOL2P_NADUV003_amf_cl for 12MAY2004 00:00:00 to 13MAY2004 00:00:00

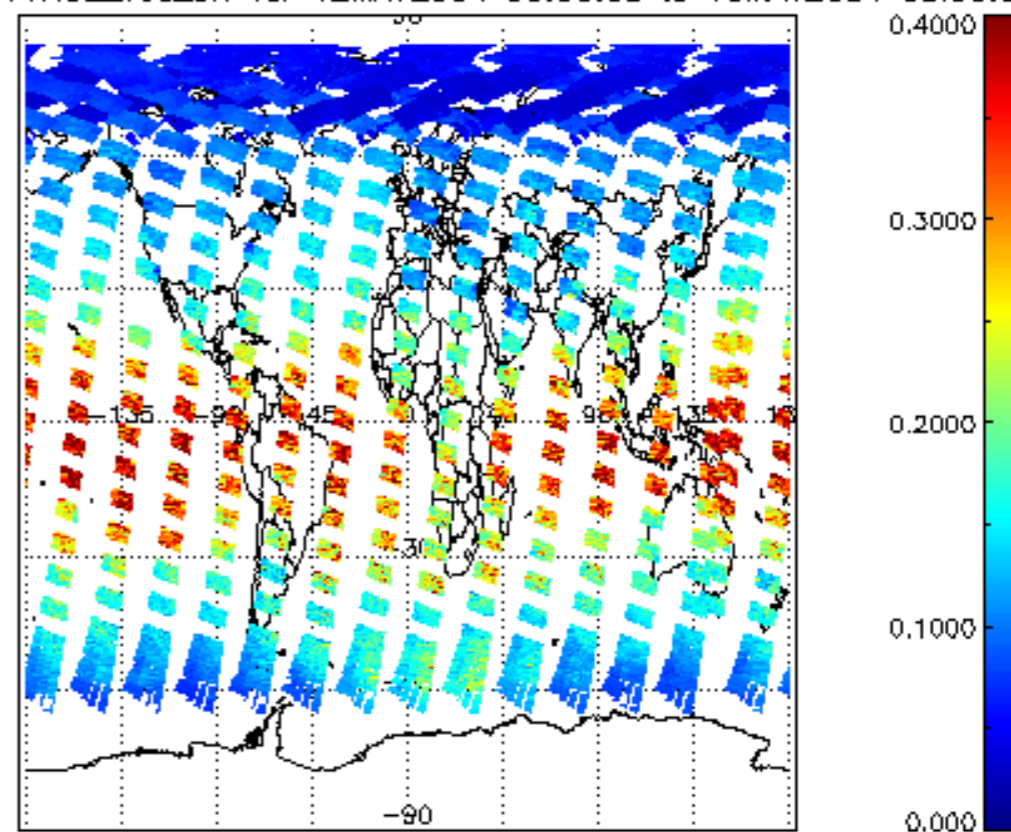




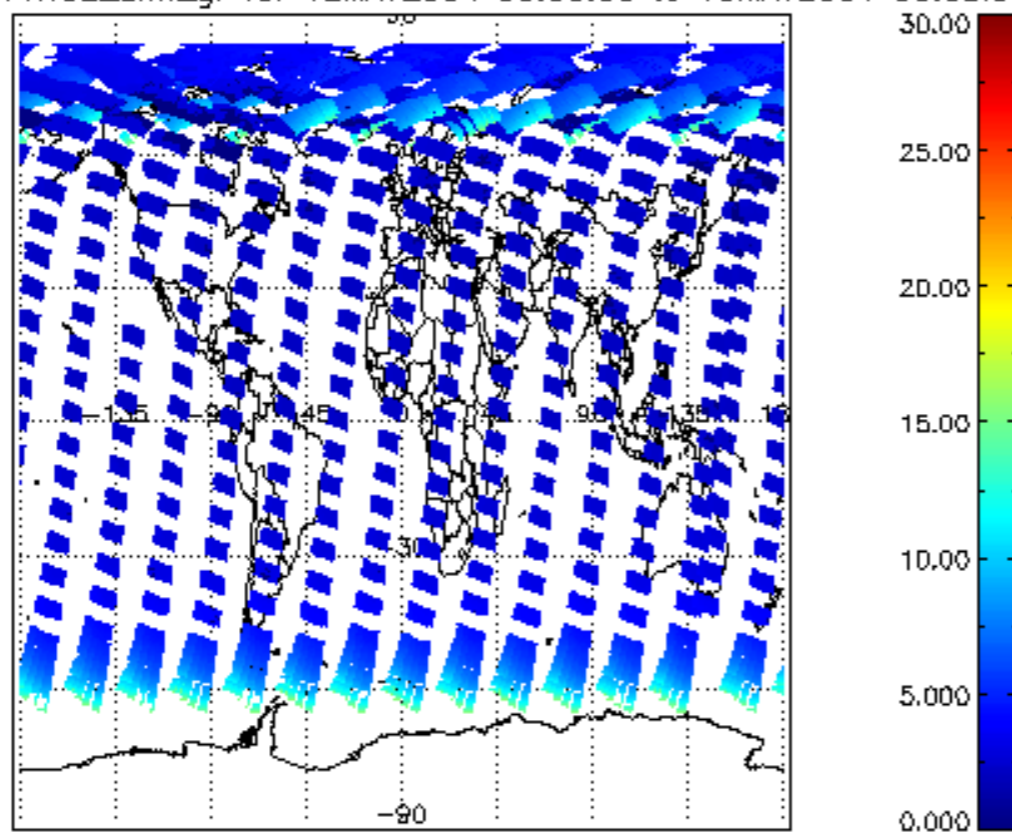
SCIOL2P_NADUV1NO2_vcd for 12MAY2004 00:00:00 to 13MAY2004 00:00:00



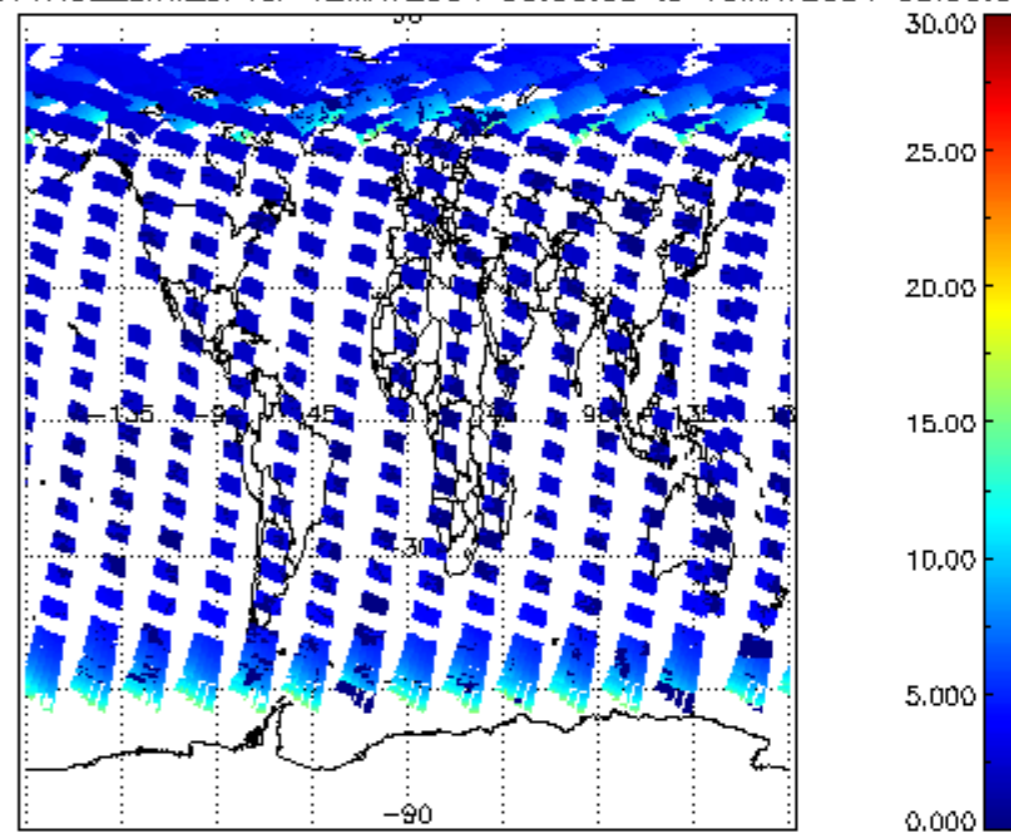
iCIOL2P_NADUV1NO2_vcd_err for 12MAY2004 00:00:00 to 13MAY2004 00:00:00



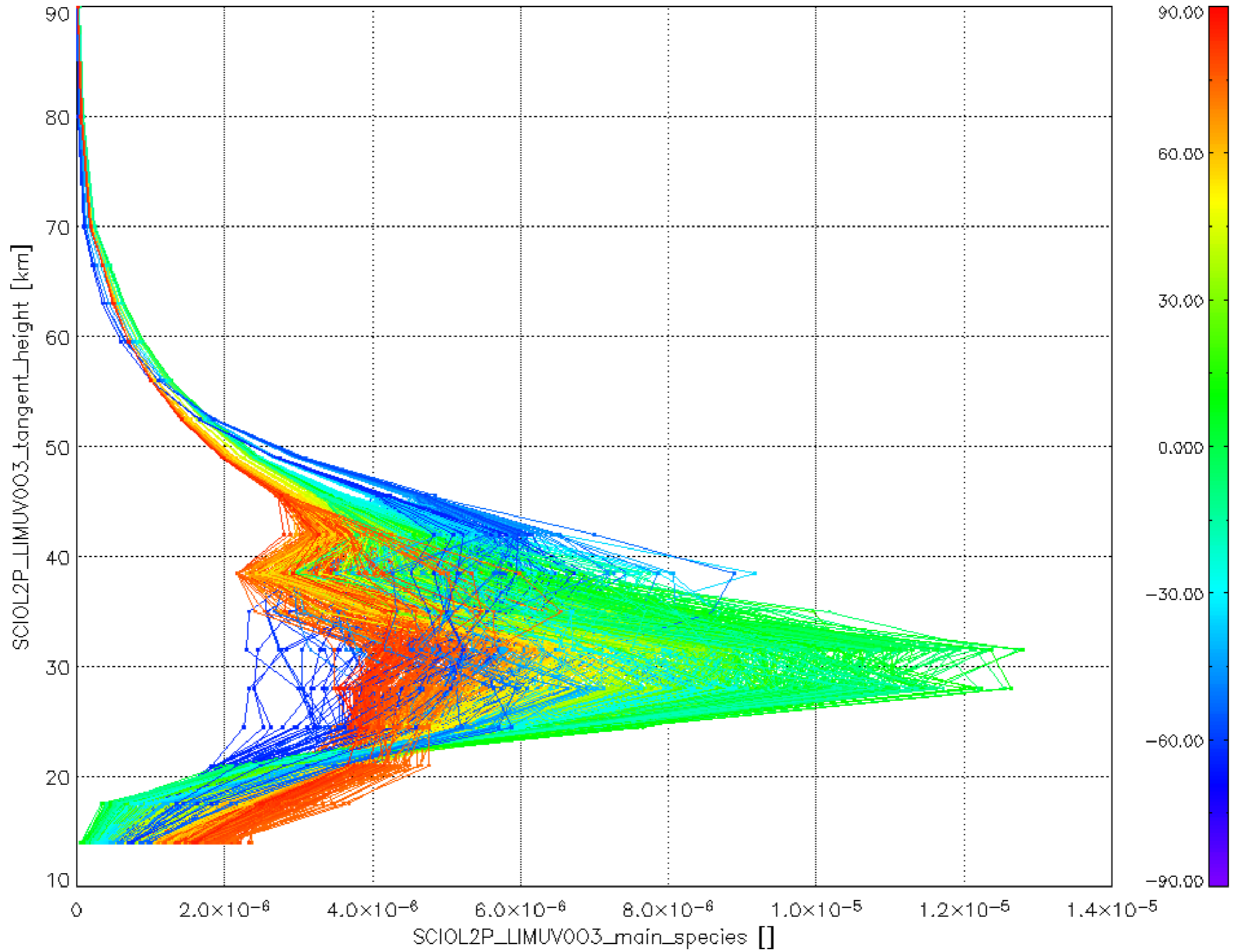
iCIOL2P_NADUV1NO2_amf_gr for 12MAY2004 00:00:00 to 13MAY2004 00:00:00



iCIOL2P_NADUV1NO2_amf_cl for 12MAY2004 00:00:00 to 13MAY2004 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).

