

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	21AUG2008 14:59:57
Data source version	SCIA-OL/3.01-R
Processing scope for products	10JUN2004 00:00:00 to 11JUN2004 00:00:00
Start time of first product within scope	09JUN2004 23:29:33
Stop time of last product within scope	10JUN2004 23:53:07
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__2PRDPA20040609_232933_000033122027_00331_11908_8432.N1	09JUN2004 23:29:33	10JUN2004 00:24:46	0	GOOD
1	SCI_OL__2PRDPA20040610_011009_000033252027_00332_11909_8718.N1	10JUN2004 01:10:09	10JUN2004 02:05:34	0	GOOD
2	SCI_OL__2PRDPA20040610_025044_000033122027_00333_11910_8780.N1	10JUN2004 02:50:44	10JUN2004 03:45:57	0	GOOD
3	SCI_OL__2PRDPA20040610_043120_000033252027_00334_11911_8483.N1	10JUN2004 04:31:20	10JUN2004 05:26:46	0	GOOD
4	SCI_OL__2PRDPA20040610_061156_000033122027_00335_11912_8429.N1	10JUN2004 06:11:56	10JUN2004 07:07:09	0	GOOD
5	SCI_OL__2PRDPA20040610_075232_000033252027_00336_11913_8804.N1	10JUN2004 07:52:32	10JUN2004 08:47:58	0	GOOD
6	SCI_OL__2PRDPA20040610_093308_000033122027_00337_11914_8744.N1	10JUN2004 09:33:08	10JUN2004 10:28:21	0	GOOD
7	SCI_OL__2PRDPA20040610_111344_000033252027_00338_11915_8708.N1	10JUN2004 11:13:44	10JUN2004 12:09:09	0	GOOD
8	SCI_OL__2PRDPA20040610_125419_000033122027_00339_11916_8462.N1	10JUN2004 12:54:19	10JUN2004 13:49:32	0	GOOD
9	SCI_OL__2PRDPA20040610_143455_000033252027_00340_11917_8765.N1	10JUN2004 14:34:55	10JUN2004 15:30:21	0	GOOD
10	SCI_OL__2PRDPA20040610_161531_000033122027_00341_11918_8470.N1	10JUN2004 16:15:31	10JUN2004 17:10:44	0	GOOD
11	SCI_OL__2PRDPA20040610_175553_000033162027_00342_11919_8463.N1	10JUN2004 17:55:53	10JUN2004 18:51:10	0	GOOD
12	SCI_OL__2PRDPA20040610_193602_000033682027_00343_11920_8568.N1	10JUN2004 19:36:02	10JUN2004 20:32:11	0	GOOD
13	SCI_OL__2PRDPA20040610_211719_000033252027_00344_11921_8776.N1	10JUN2004 21:17:19	10JUN2004 22:12:44	0	GOOD
14	SCI_OL__2PRDPA20040610_225754_000033122027_00345_11922_8801.N1	10JUN2004 22:57:54	10JUN2004 23:53:07	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: 148200

Total number of cloud data DSRs with good quality flag (=0): 148200 (100.0 %)

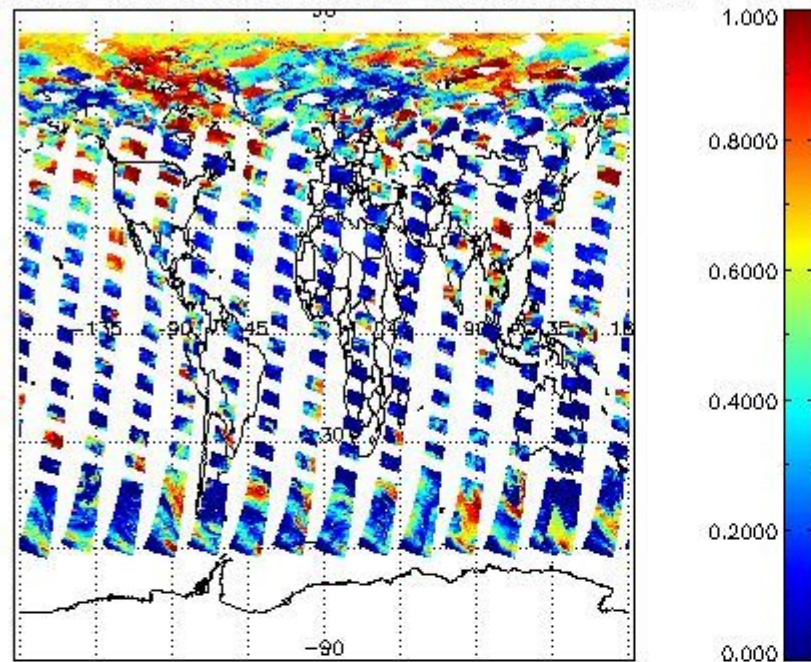
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	148200	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	148200	0.17061	0.12500	0.12500	0.25000	0.060176	s
CL_FRAC	148200	0.35330	0.28904	0.0000	1.0000	0.31306	-
CL_FRAC_ERR	148200	0.0000	0.0000	0.0000	0.0000	0.0000	rel. fraction
PMD_READ	148200	5.4596	4.0000	4.0000	8.0000	1.9256	
PMD_READ_CL[0]	148200	0.33631	0.0000	0.0000	8.0000	1.3582	-
PMD_READ_CL[1]	148200	1.2812	0.0000	0.0000	8.0000	2.2308	-
CL_TOP_HEIGHT	129884	3.1228	1.1490	0.0000	17.000	3.7396	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	129884	55.725	52.071	0.0000	101.00	43.979	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	148200	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	148200	11001011	11000100	11000000	11100000	3486.5	flags
AERO_ABSO_IND	148200	0.74472	0.52072	-4.0545	8.7752	1.0562	
AERO_IND_DIAG	148200	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	148200	01011000	00000000	00000000	11000000	24503.	flags

Time and geolocation plots:

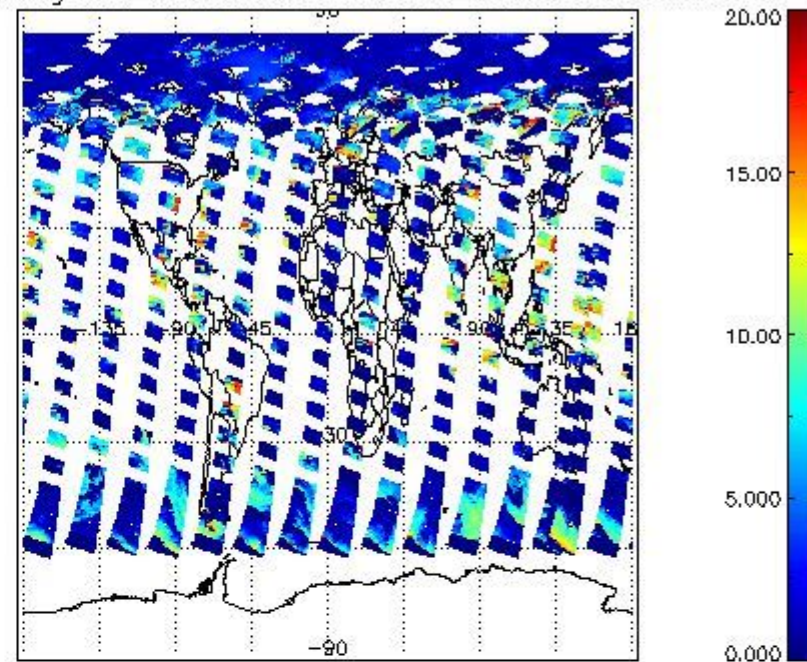
Plots are available for the following parameters:

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

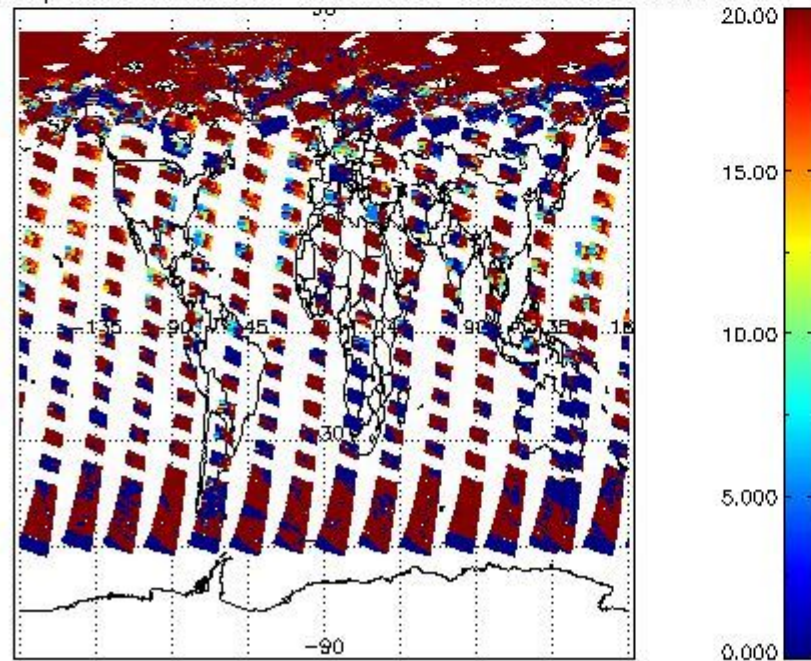
cL_frac for 10JUN2004 00:00:00 to 11JUN2004 00:00:00



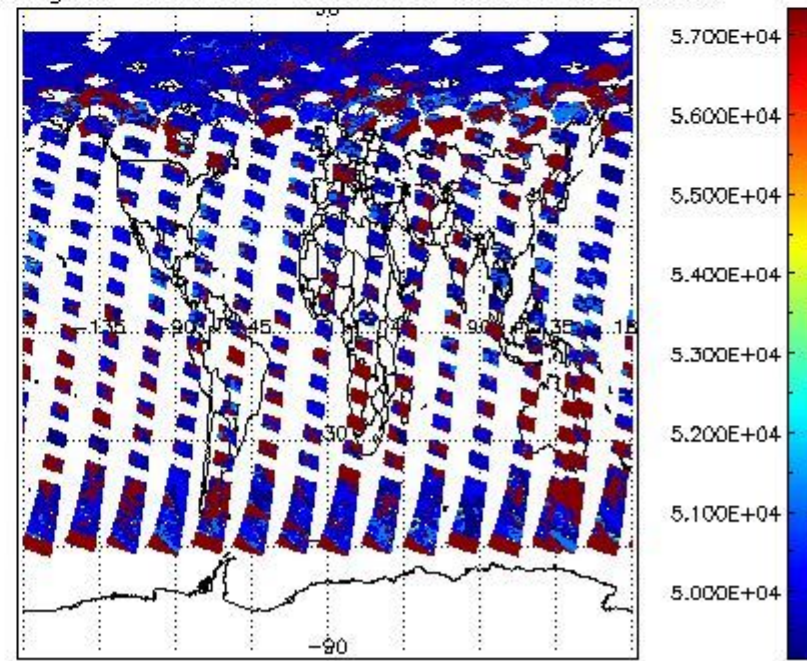
cL_top_height for 10JUN2004 00:00:00 to 11JUN2004 00:00:00



cL_opt_depth for 10JUN2004 00:00:00 to 11JUN2004 00:00:00



cloud_flags for 10JUN2004 00:00:00 to 11JUN2004 00:00:00



2.2.2 Nadir

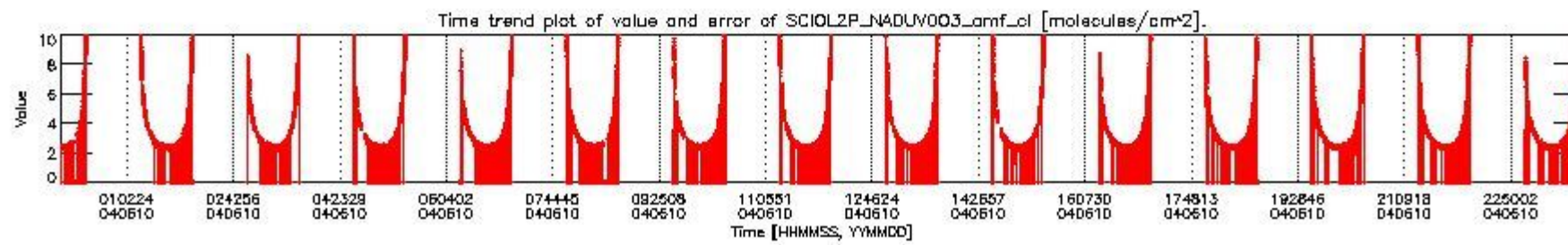
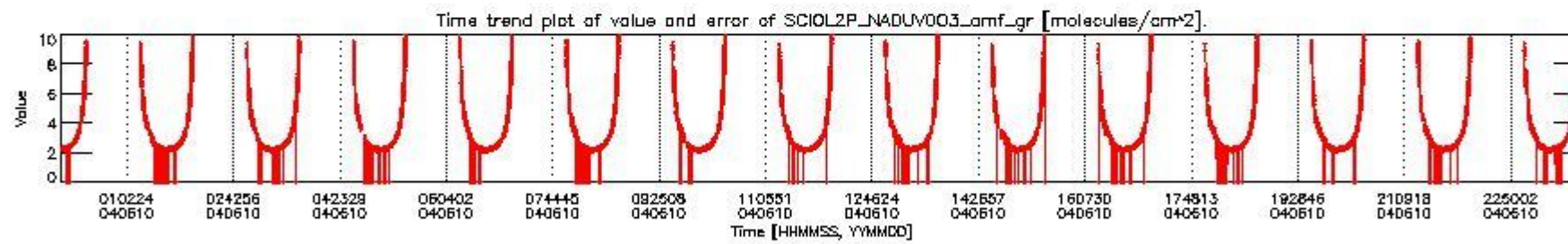
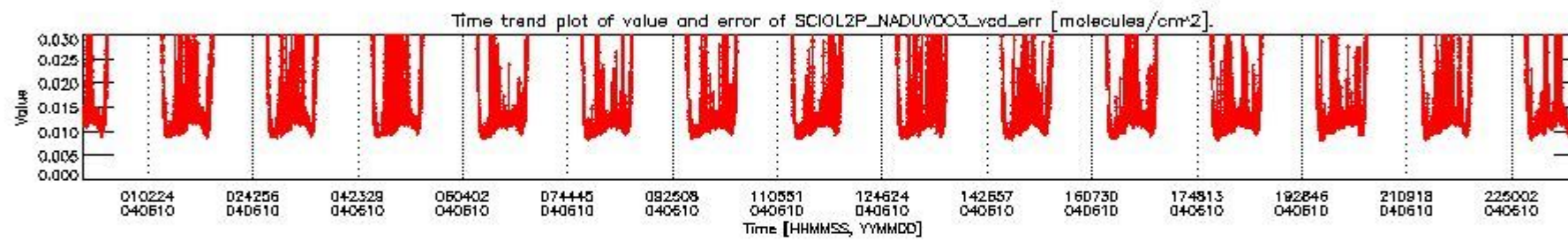
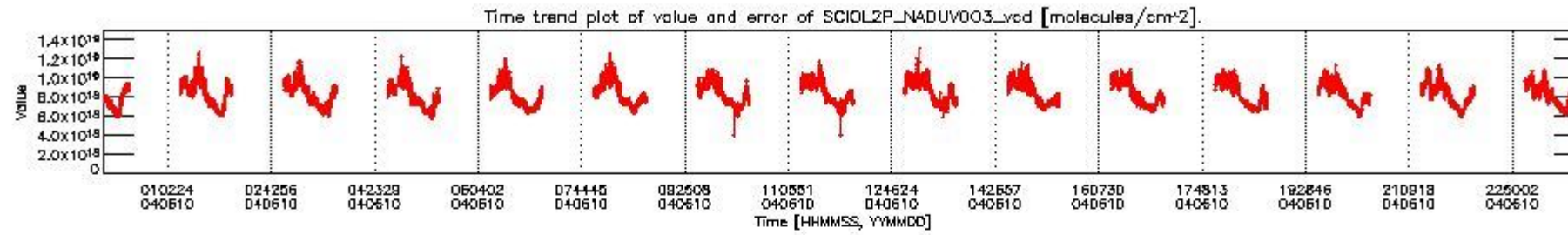
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

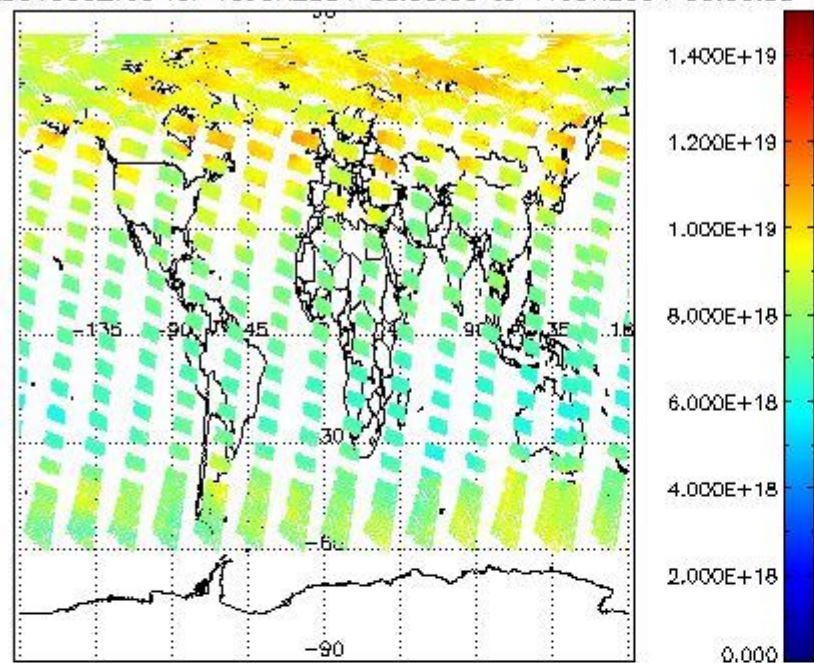
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

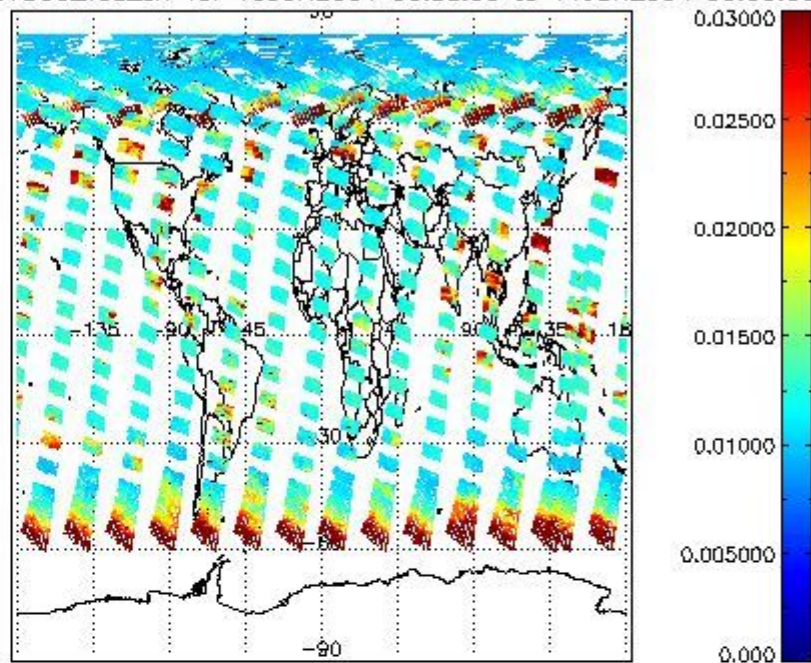
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



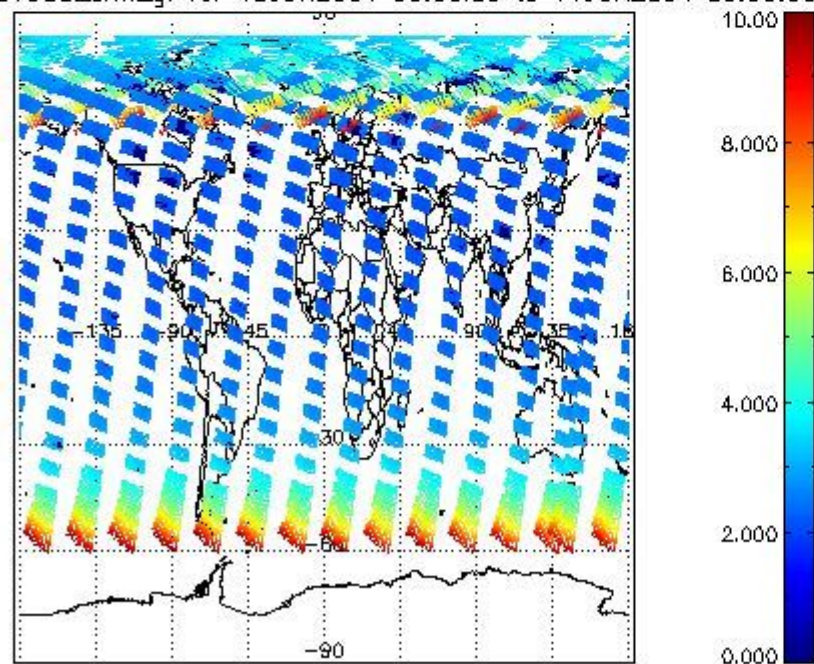
SCIOL2P_NADUV003_vcd for 10JUN2004 00:00:00 to 11JUN2004 00:00:00



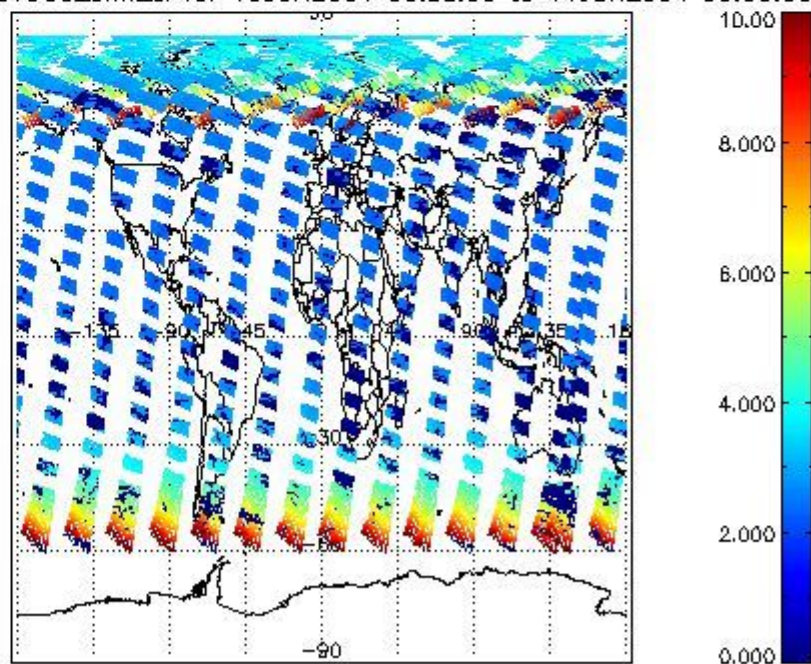
SCIOL2P_NADUV003_vcd_err for 10JUN2004 00:00:00 to 11JUN2004 00:00:00

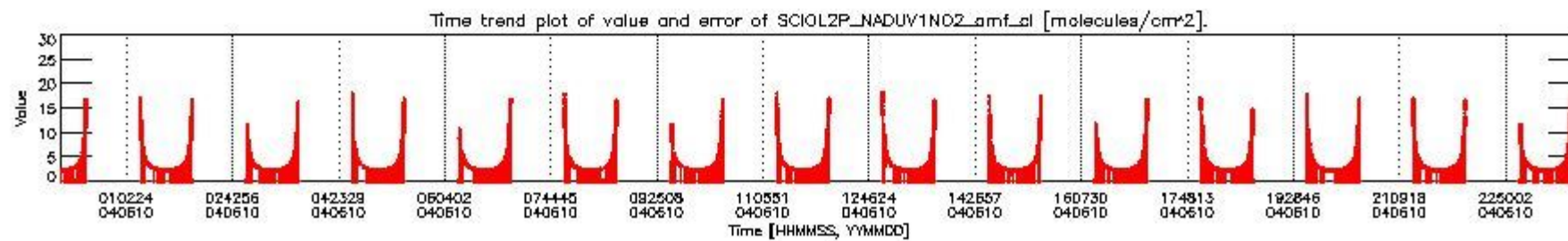
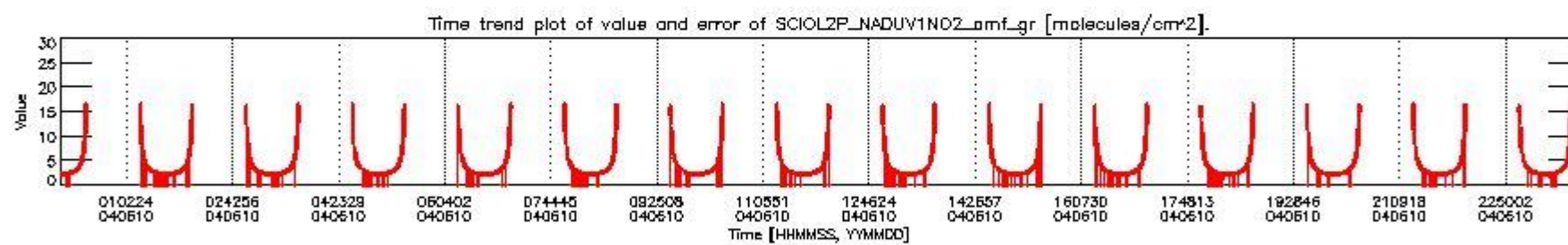
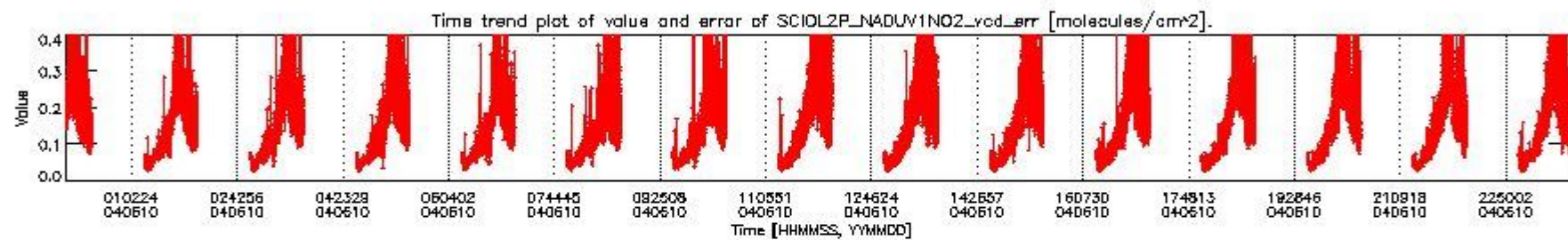
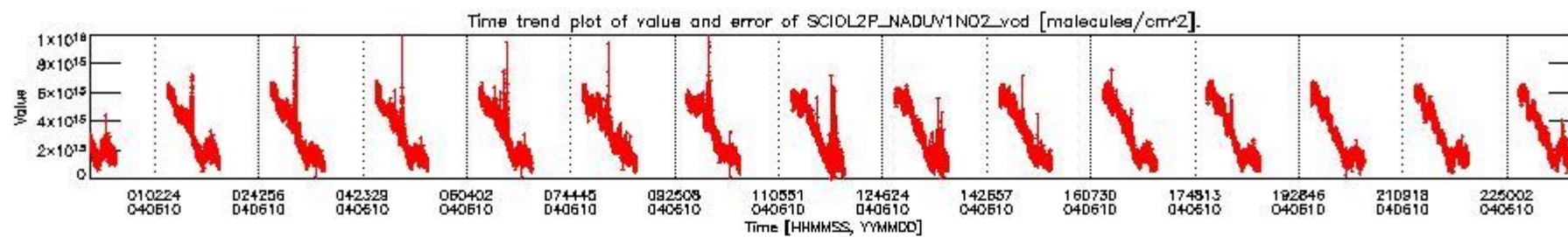


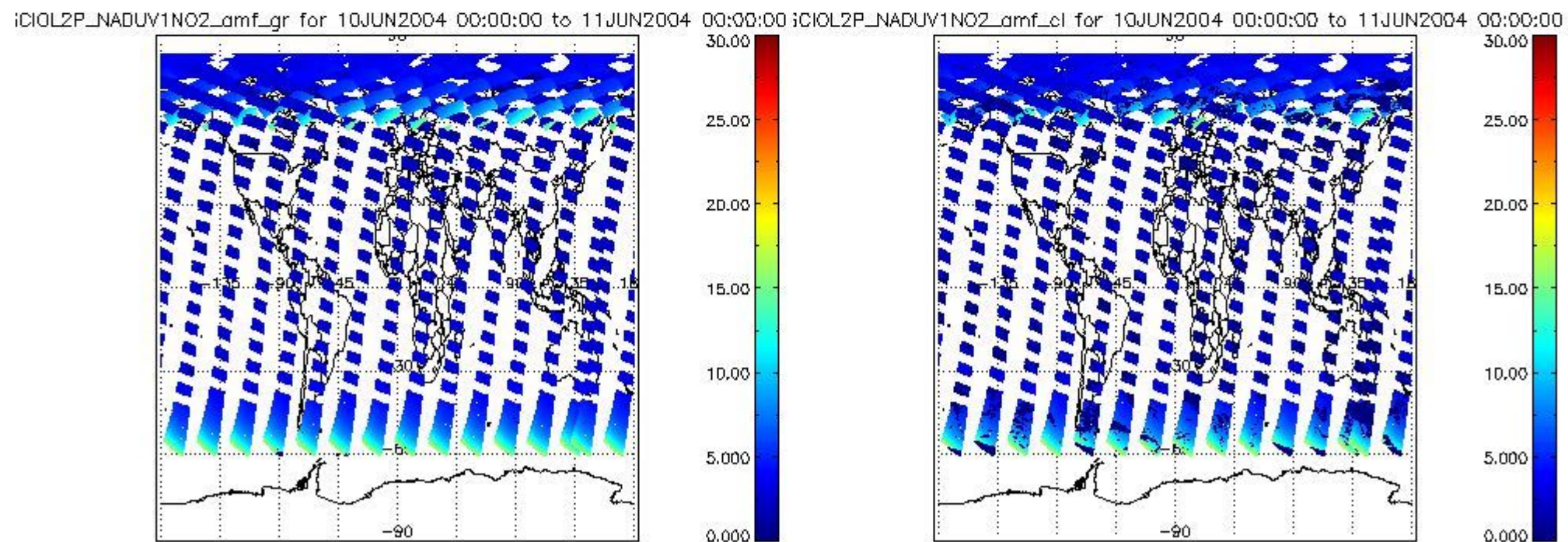
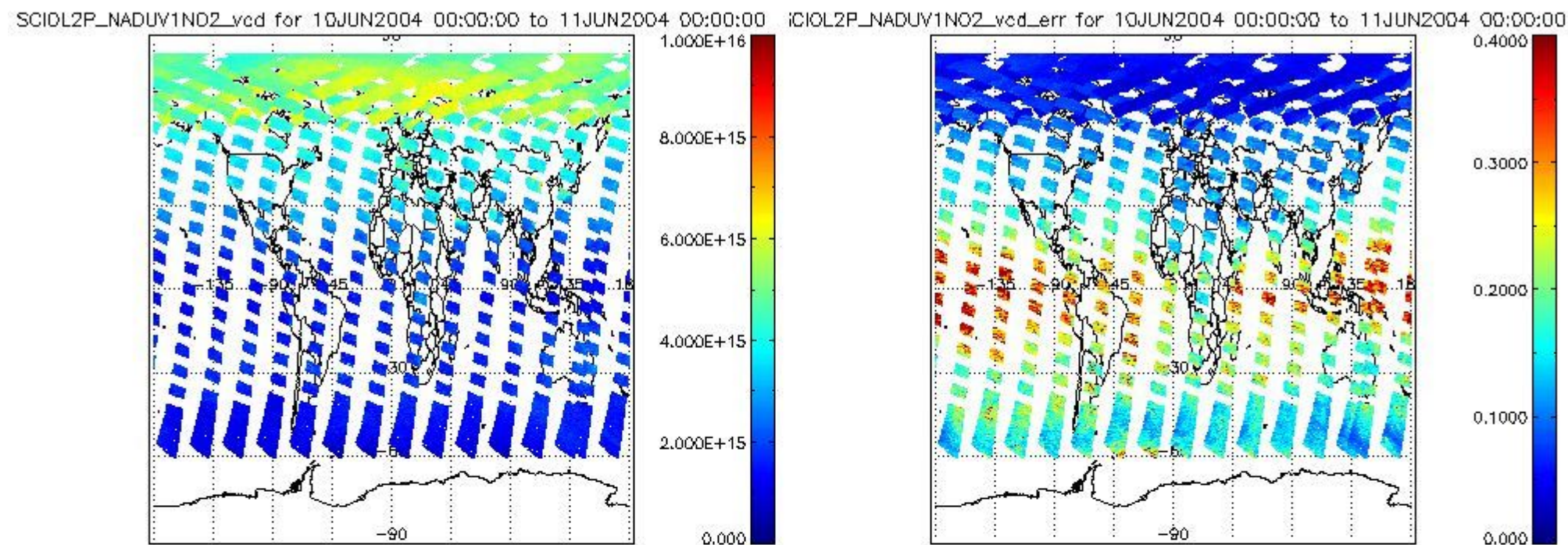
SCIOL2P_NADUV003_amf_gr for 10JUN2004 00:00:00 to 11JUN2004 00:00:00



SCIOL2P_NADUV003_amf_cl for 10JUN2004 00:00:00 to 11JUN2004 00:00:00







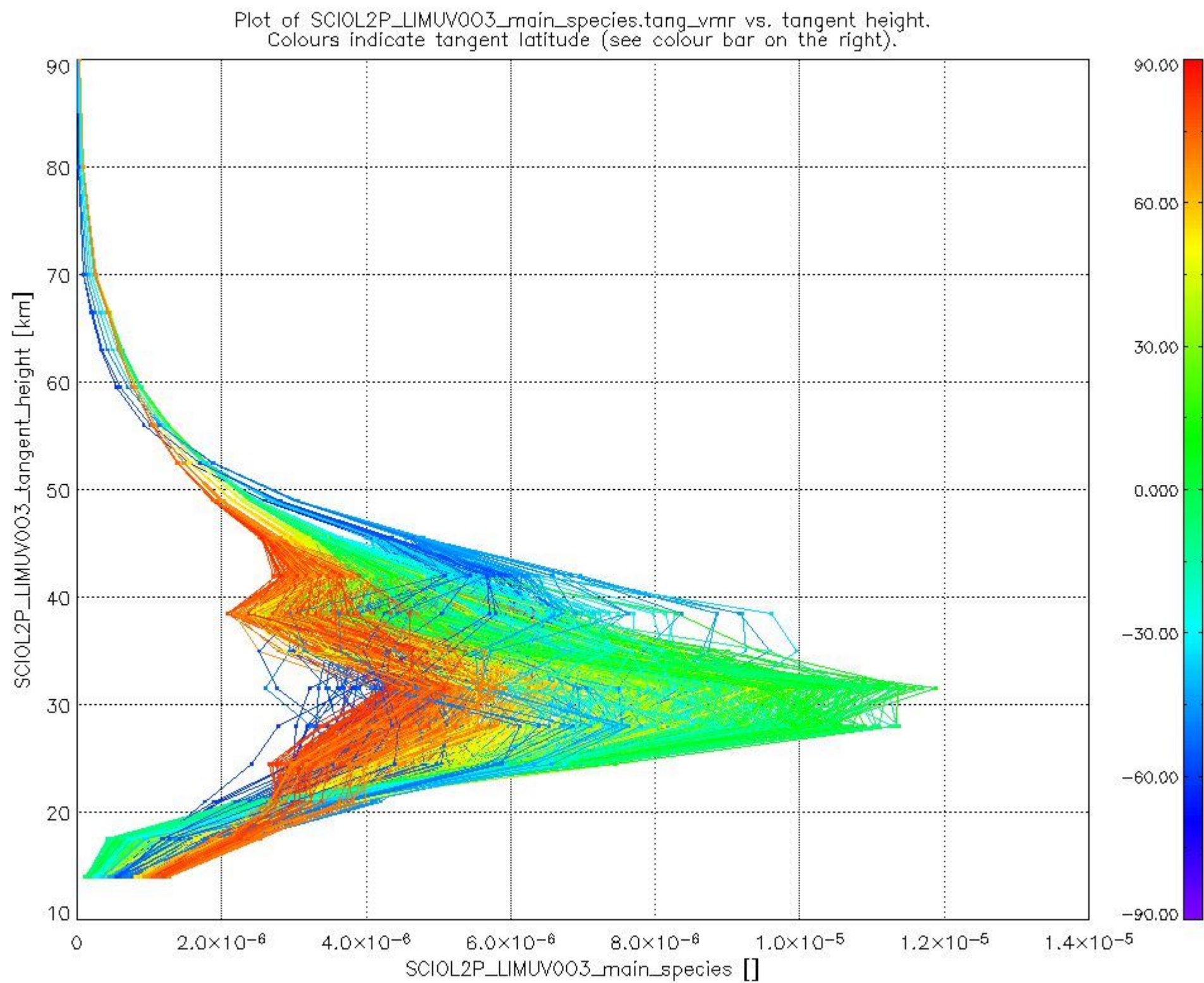
2.2.3 Limb

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

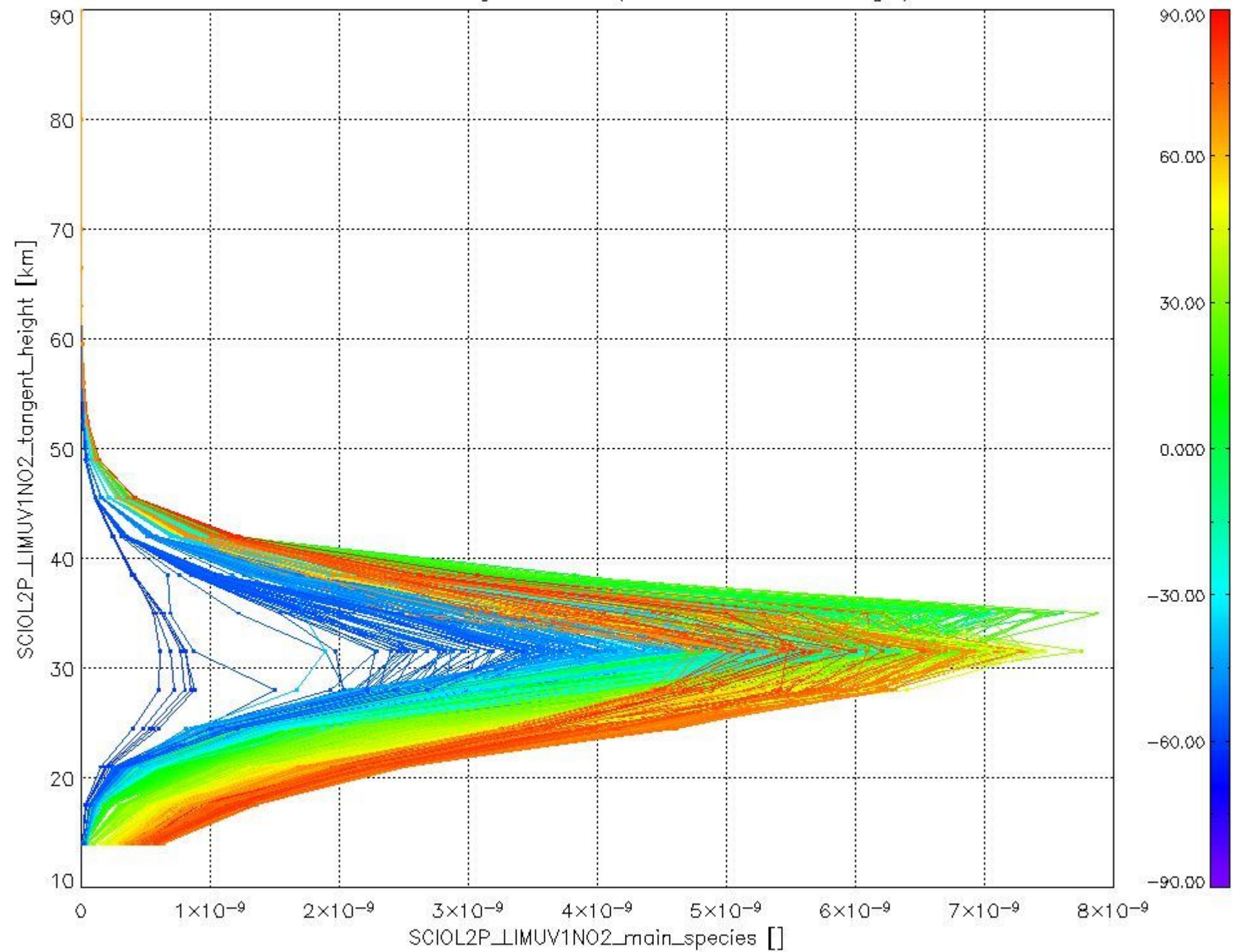
The following data items are currently included into this section:

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.



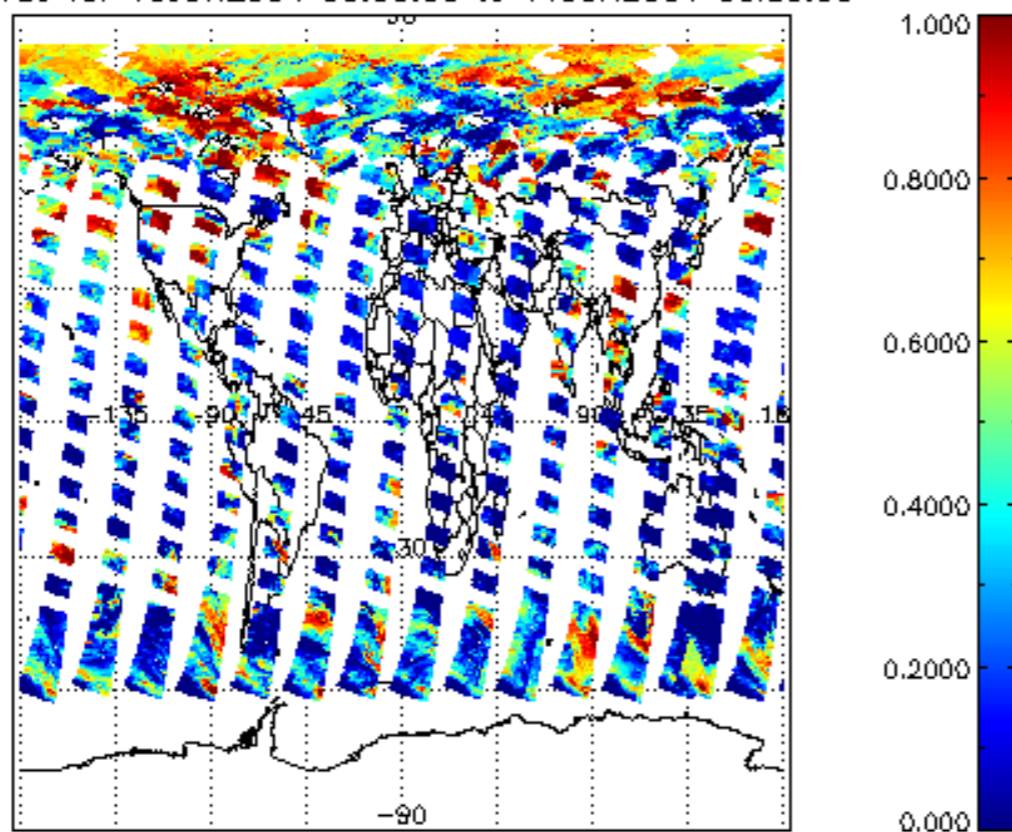
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



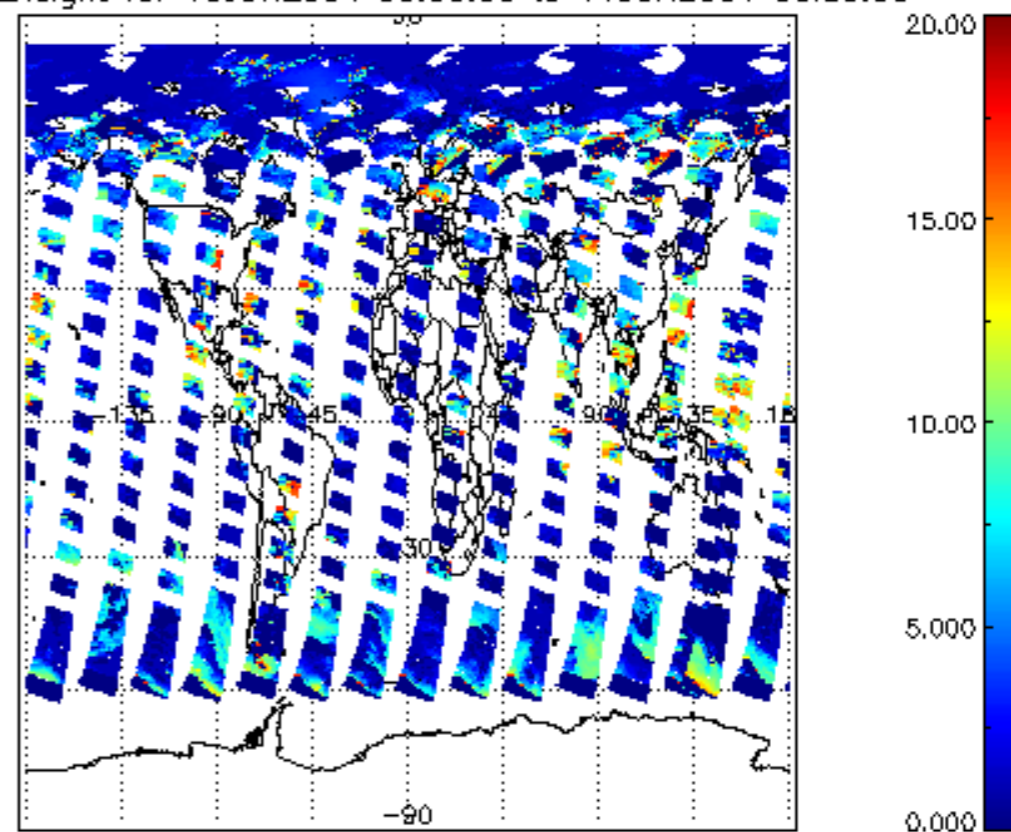
2.3 ADF monitoring

Number	ADF
	IN_ (INITIALISATION_FILE)
0	SCI_IN_AXNPDE20070629_092400_20070720_000000_20991231_235959
	ECF (ECMWF_FILE)
1	NOT USED

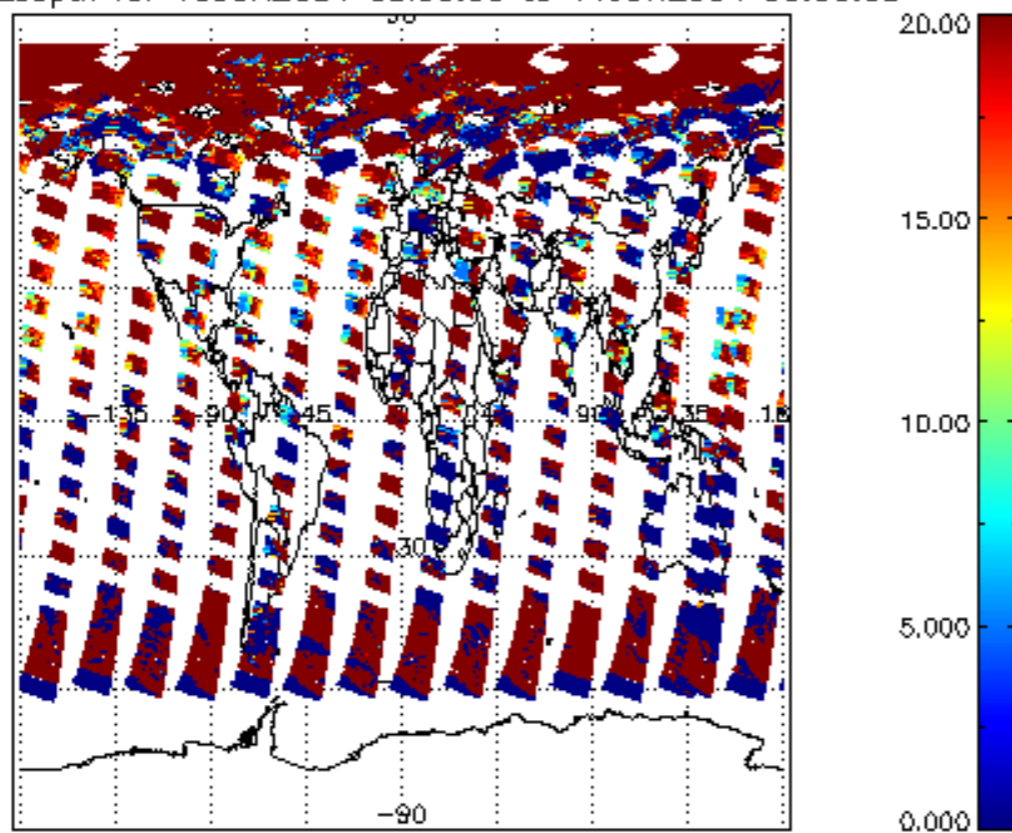
cl_frac for 10JUN2004 00:00:00 to 11JUN2004 00:00:00



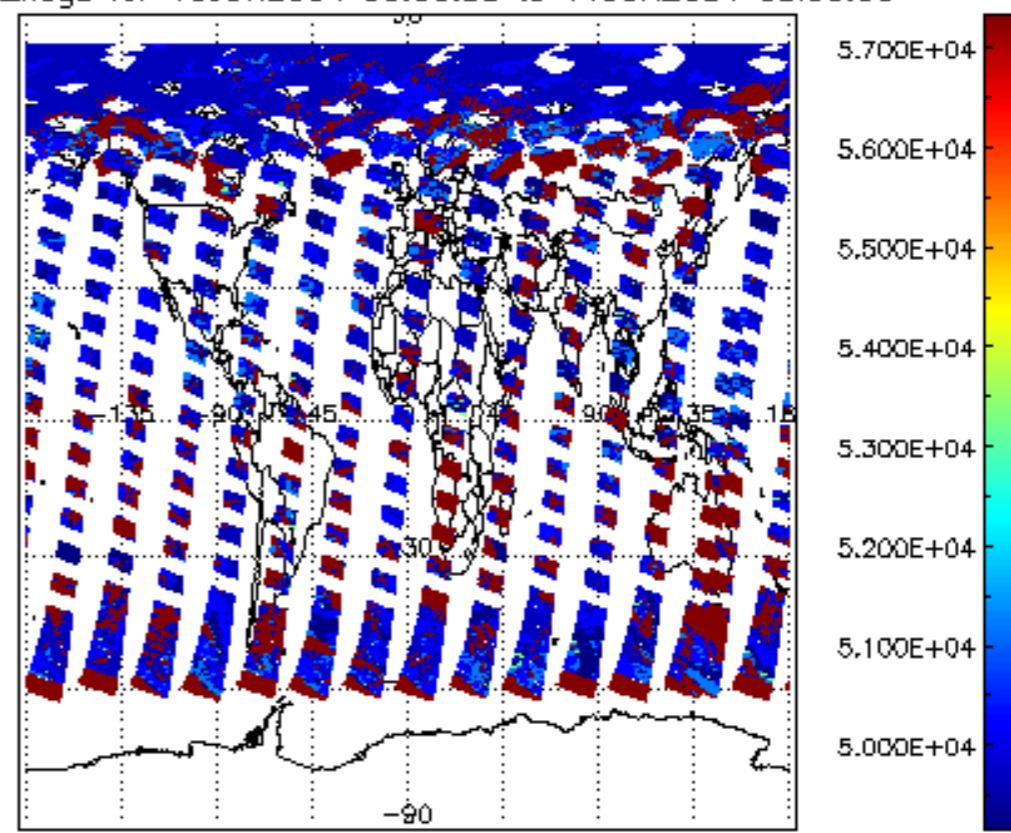
cl_top_height for 10JUN2004 00:00:00 to 11JUN2004 00:00:00

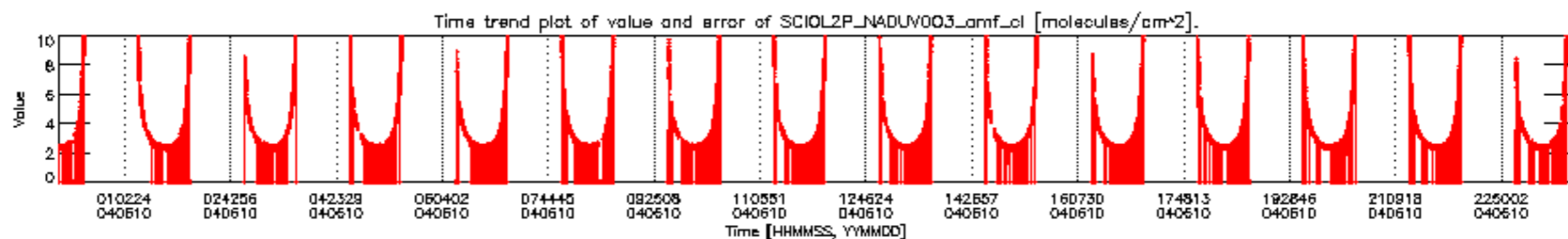
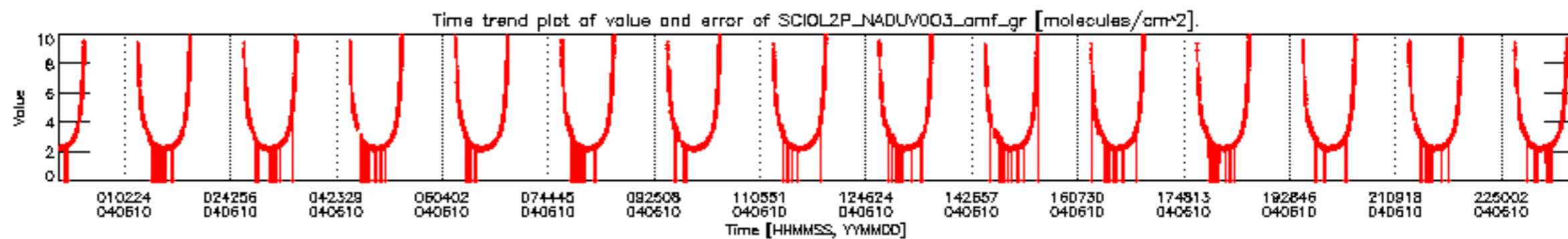
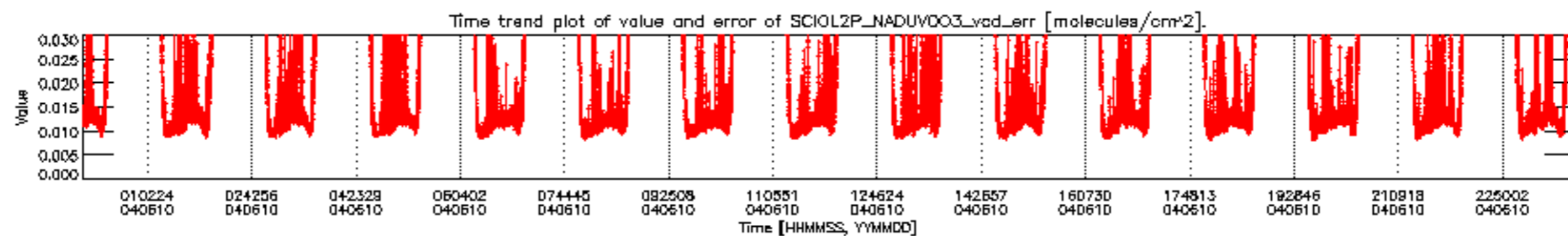
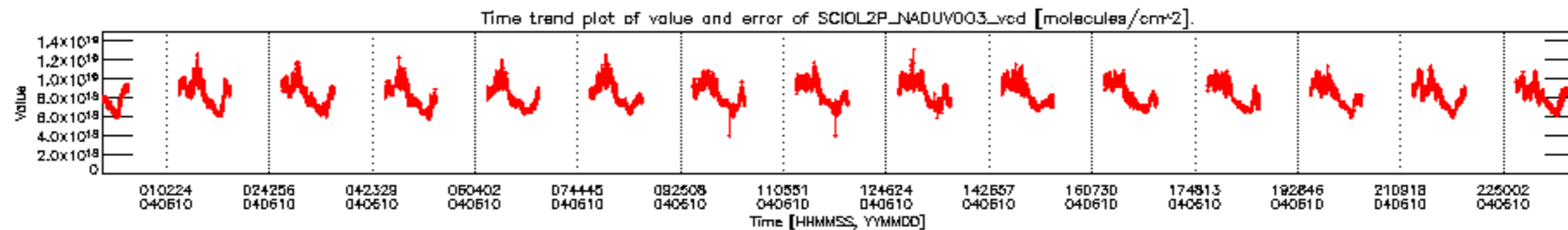


cl_opt_depth for 10JUN2004 00:00:00 to 11JUN2004 00:00:00

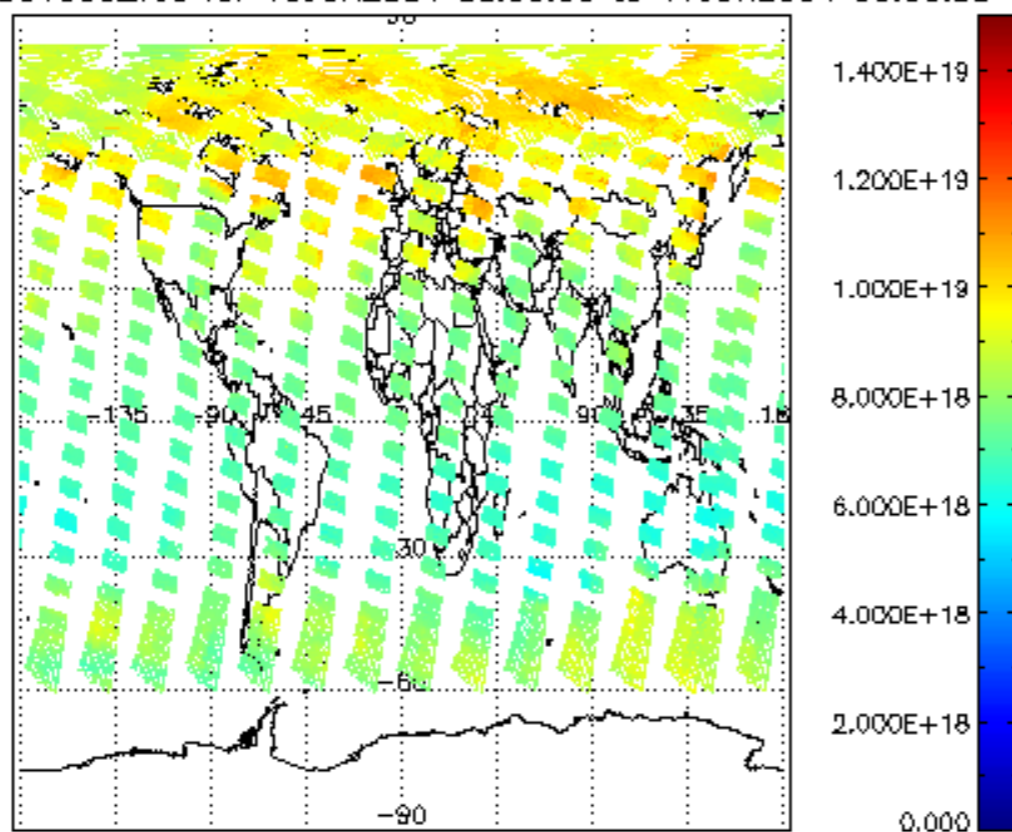


cloud_flags for 10JUN2004 00:00:00 to 11JUN2004 00:00:00

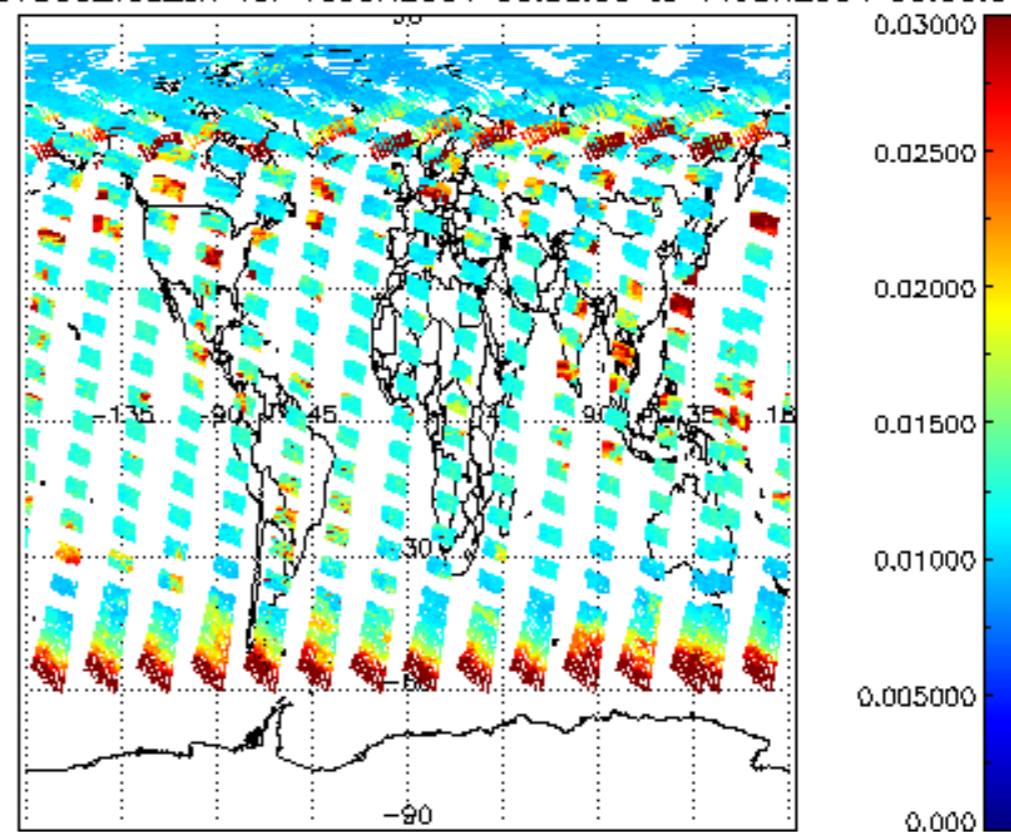




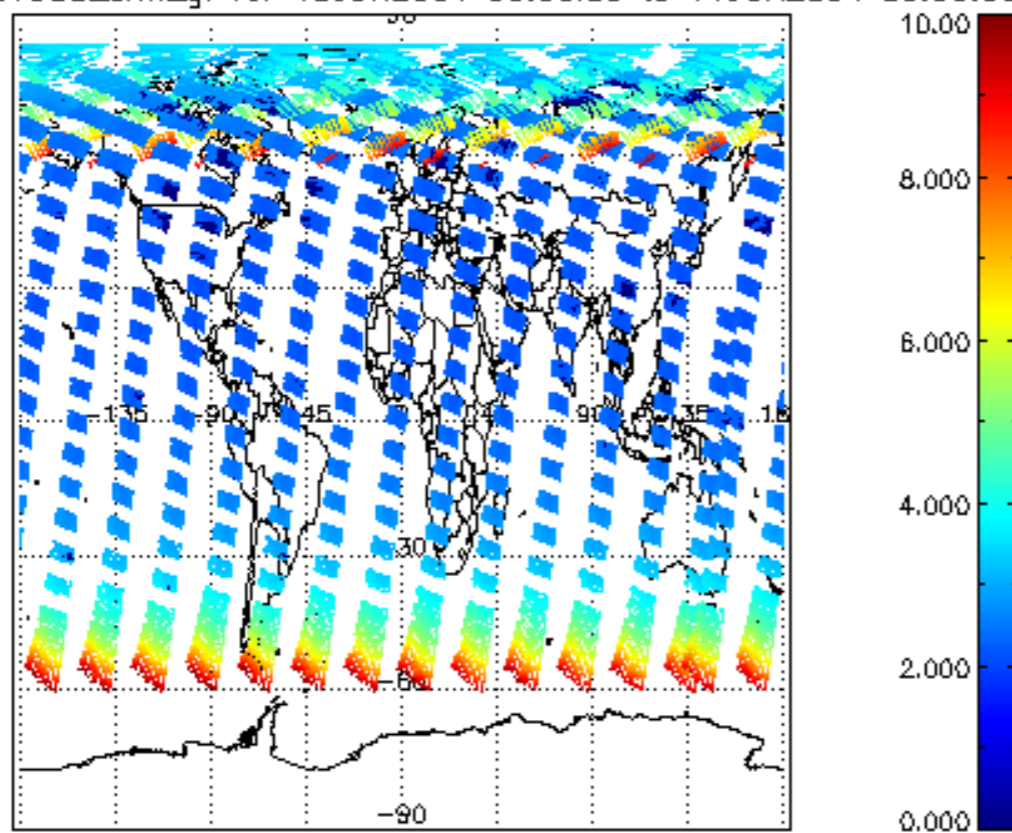
SCIOL2P_NADUV003_vcd for 10JUN2004 00:00:00 to 11JUN2004 00:00:00



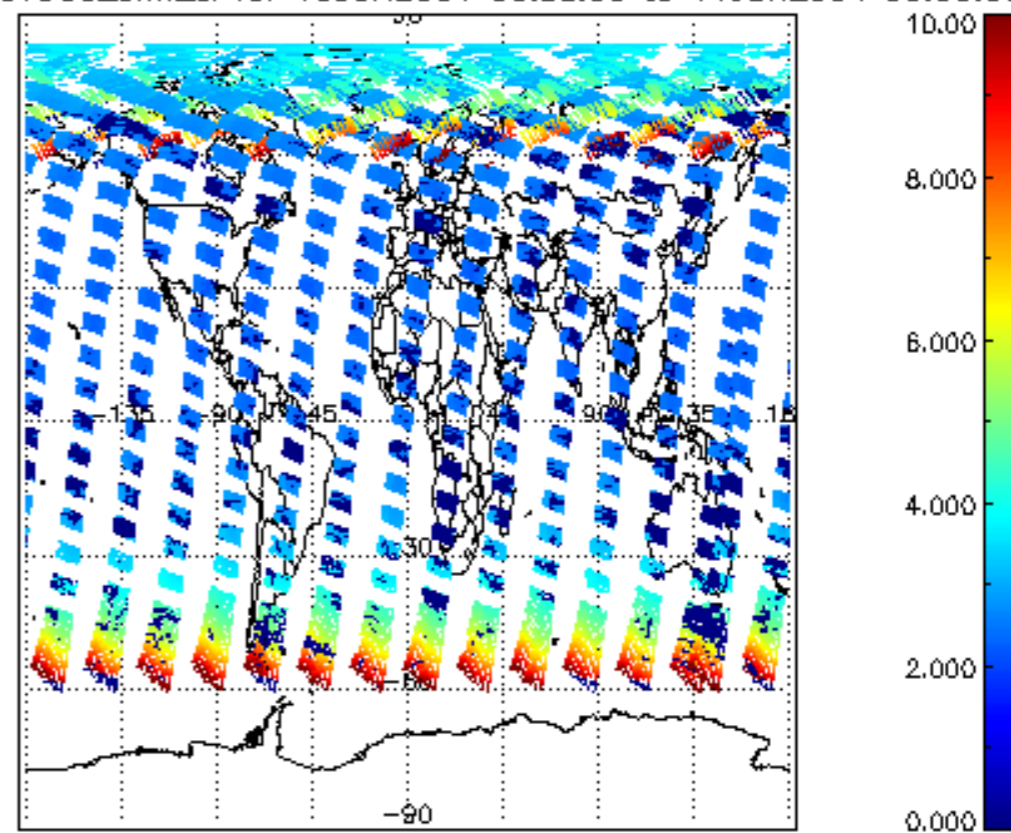
SCIOL2P_NADUV003_vcd_err for 10JUN2004 00:00:00 to 11JUN2004 00:00:00

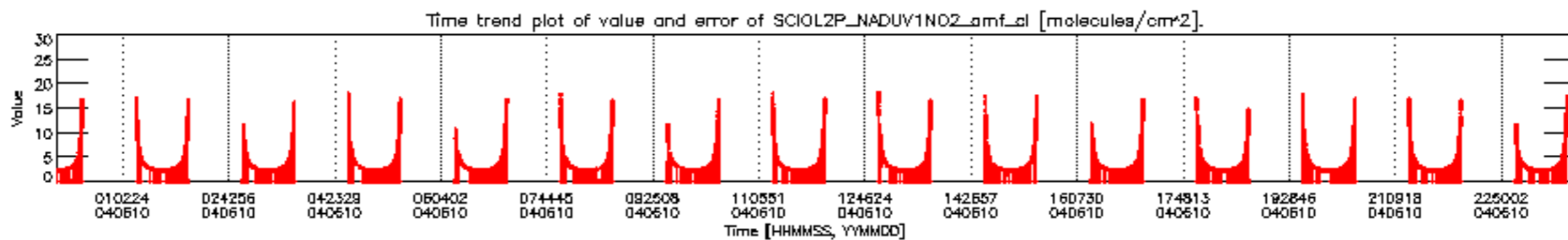
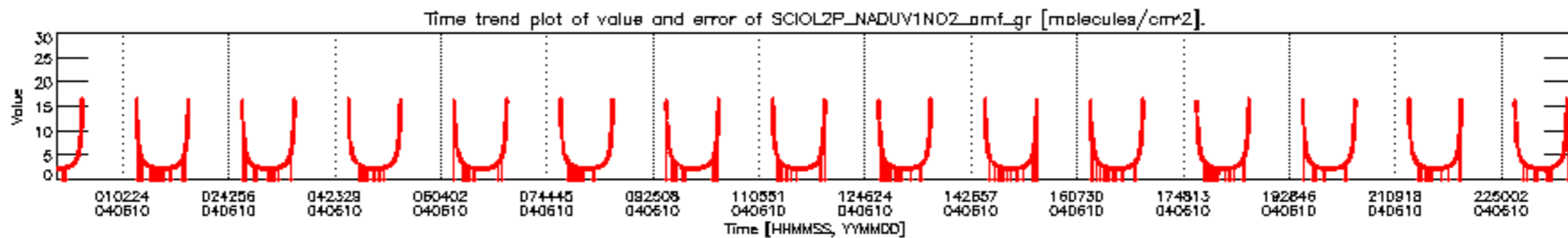
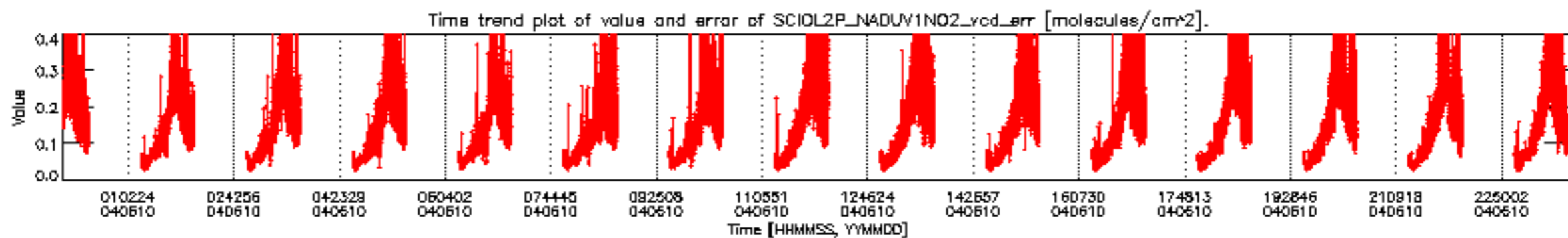
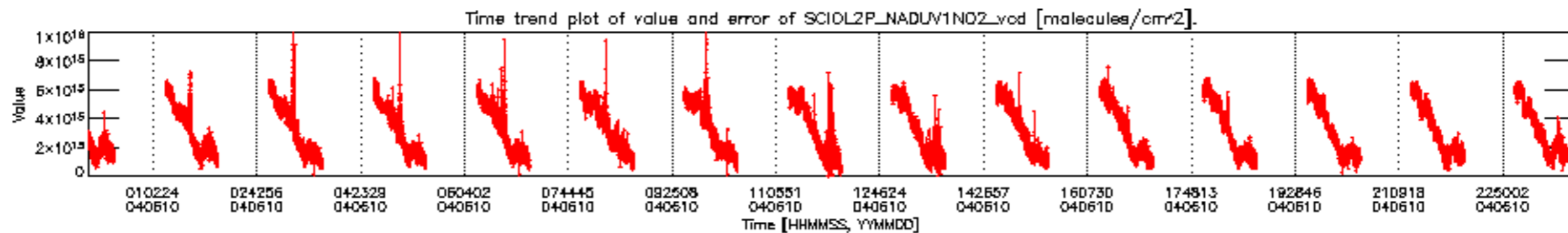


SCIOL2P_NADUV003_amf_gr for 10JUN2004 00:00:00 to 11JUN2004 00:00:00

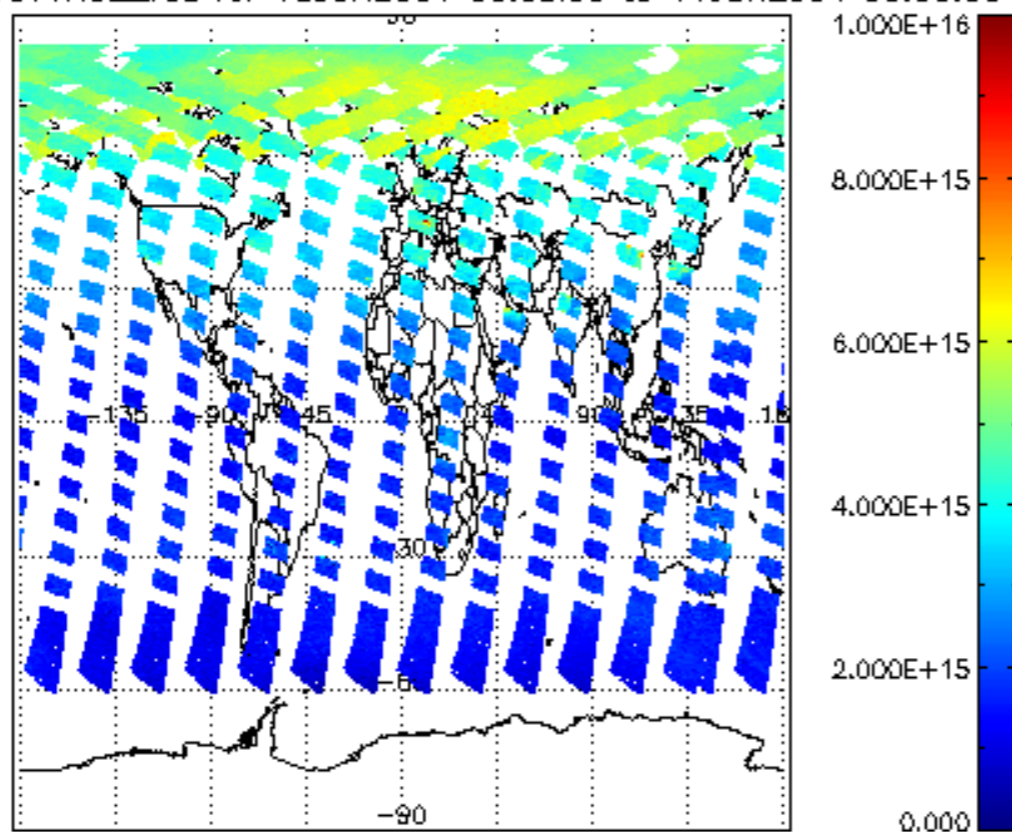


SCIOL2P_NADUV003_amf_cl for 10JUN2004 00:00:00 to 11JUN2004 00:00:00

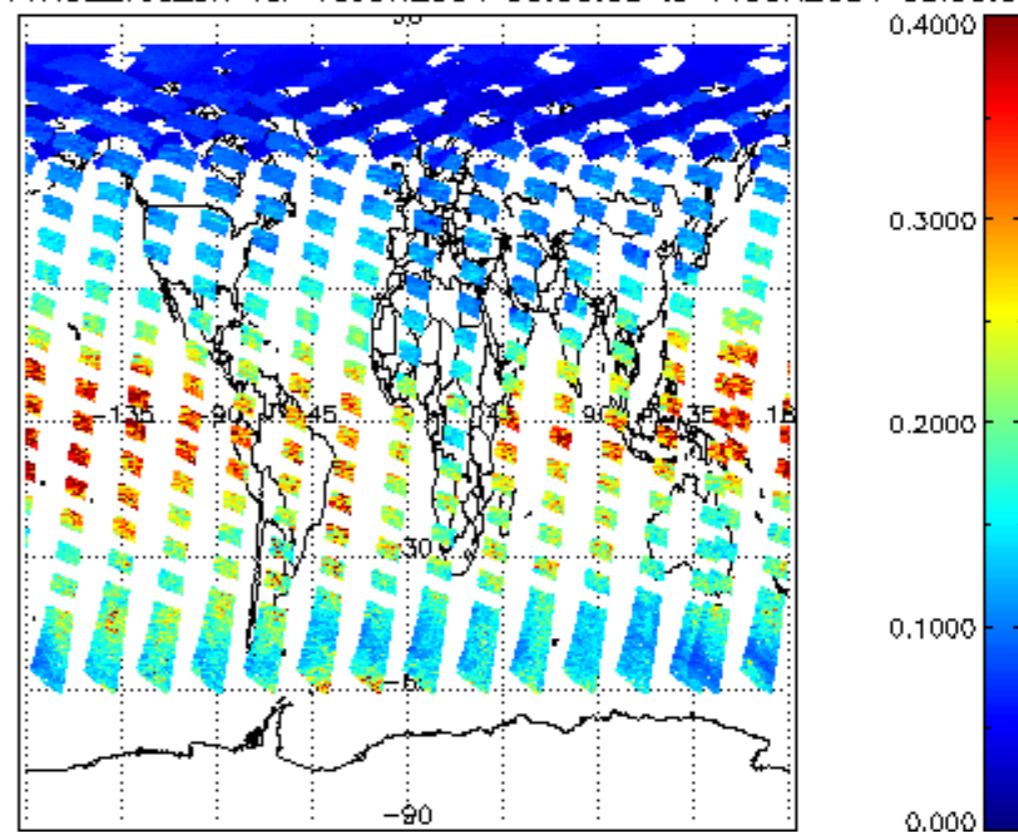




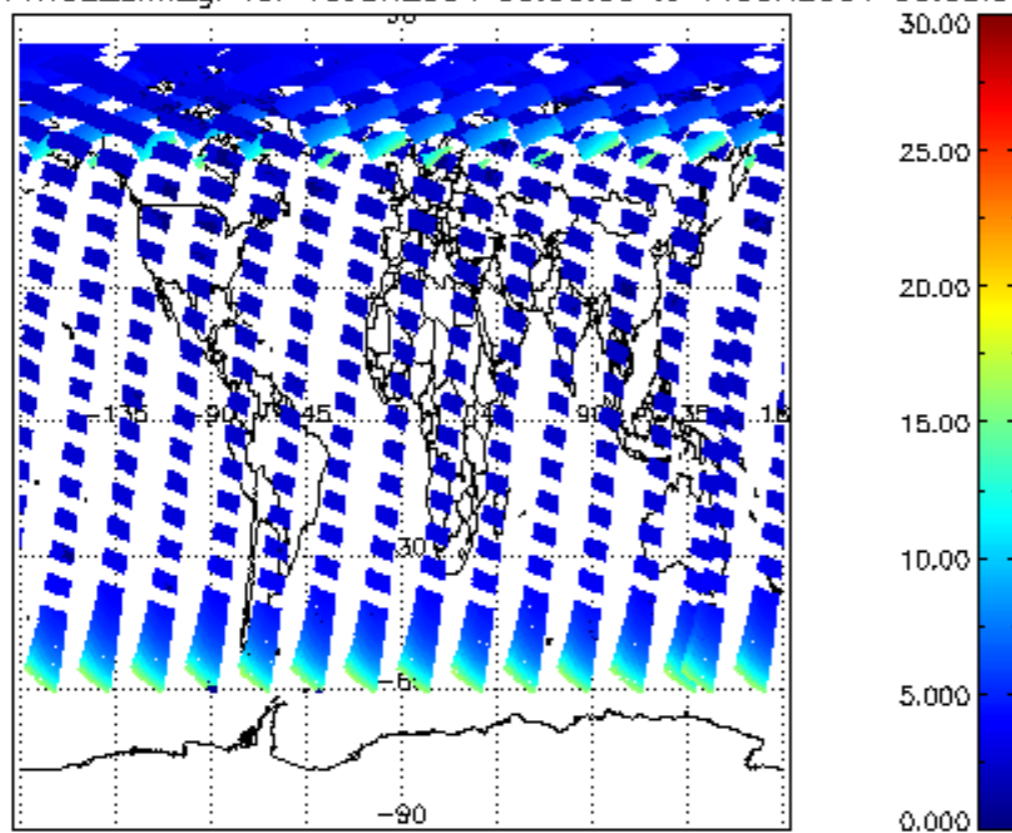
SCIOL2P_NADUV1NO2_vcd for 10JUN2004 00:00:00 to 11JUN2004 00:00:00



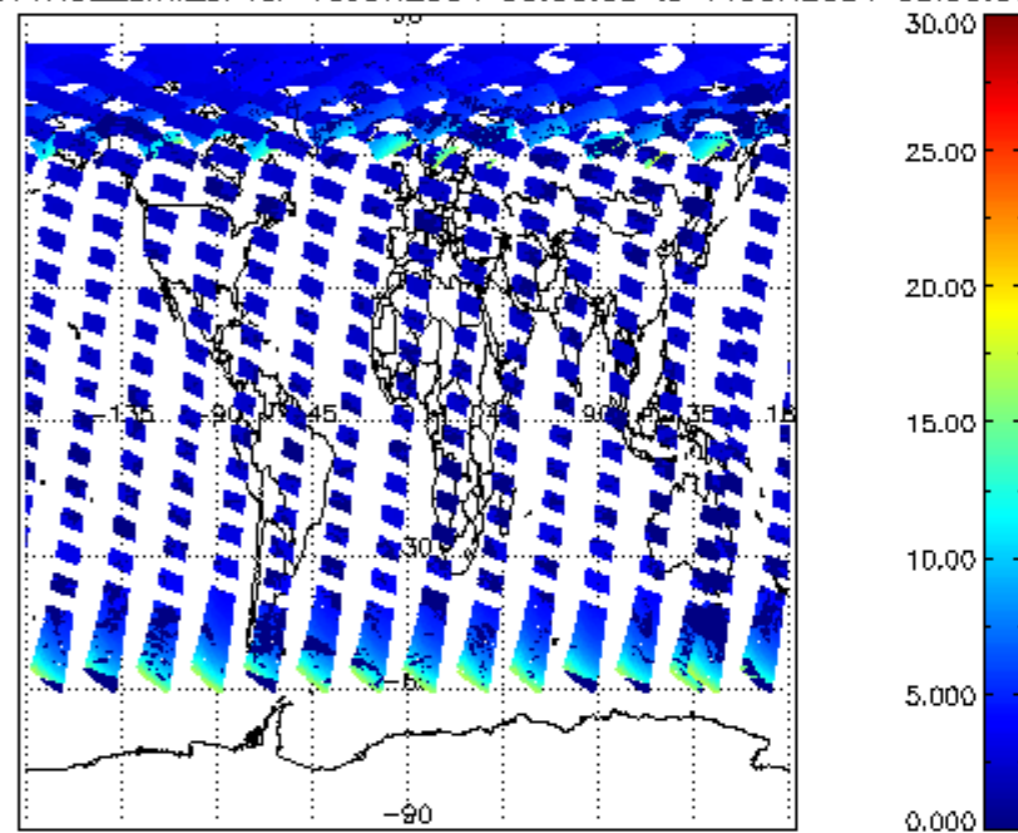
iCIOL2P_NADUV1NO2_vcd_err for 10JUN2004 00:00:00 to 11JUN2004 00:00:00



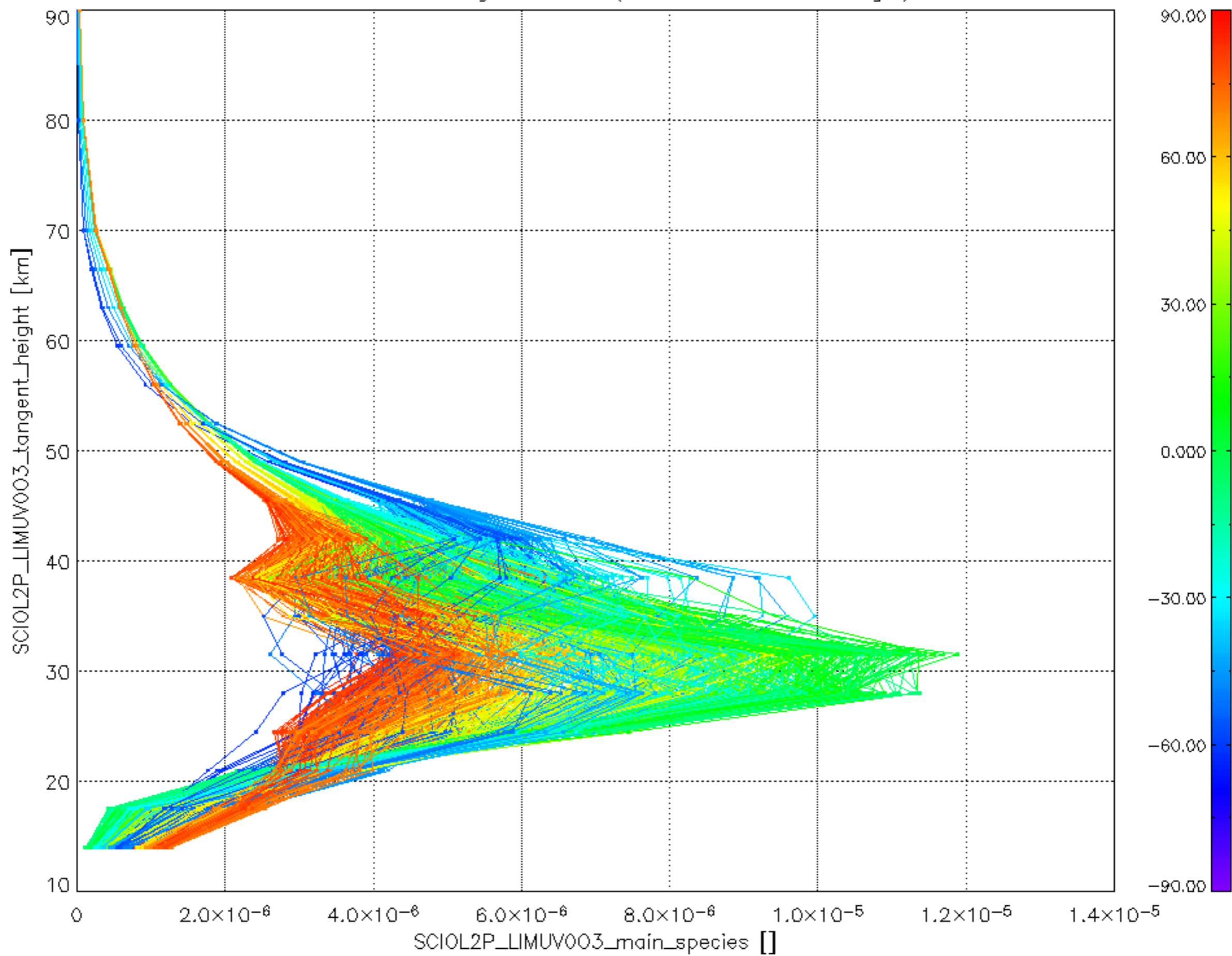
iCIOL2P_NADUV1NO2_amf_gr for 10JUN2004 00:00:00 to 11JUN2004 00:00:00



iCIOL2P_NADUV1NO2_amf_cl for 10JUN2004 00:00:00 to 11JUN2004 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_LIMUV1N02_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).

