

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	20AUG2008 15:39:06
Data source version	SCIA-OL/3.01-R
Processing scope for products	03JUN2004 00:00:00 to 04JUN2004 00:00:00
Start time of first product within scope	03JUN2004 01:30:29
Stop time of last product within scope	04JUN2004 00:13:40
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__2PRDPA20040603_013029_000033252027_00232_11809_8727.N1	03JUN2004 01:30:29	03JUN2004 02:25:55	0	GOOD
1	SCI_OL__2PRDPA20040603_031105_000033122027_00233_11810_8812.N1	03JUN2004 03:11:05	03JUN2004 04:06:18	0	GOOD
2	SCI_OL__2PRDPA20040603_045141_000033252027_00234_11811_8763.N1	03JUN2004 04:51:41	03JUN2004 05:47:07	0	GOOD
3	SCI_OL__2PRDPA20040603_063217_000033122027_00235_11812_8721.N1	03JUN2004 06:32:17	03JUN2004 07:27:30	0	GOOD
4	SCI_OL__2PRDPA20040603_081253_000033252027_00236_11813_8554.N1	03JUN2004 08:12:53	03JUN2004 09:08:18	0	GOOD
5	SCI_OL__2PRDPA20040603_095328_000033122027_00237_11814_8702.N1	03JUN2004 09:53:28	03JUN2004 10:48:41	0	GOOD
6	SCI_OL__2PRDPA20040603_113404_000033252027_00238_11815_8467.N1	03JUN2004 11:34:04	03JUN2004 12:29:30	0	GOOD
7	SCI_OL__2PRDPA20040603_131440_000033122027_00239_11816_8566.N1	03JUN2004 13:14:40	03JUN2004 14:09:53	0	GOOD
8	SCI_OL__2PRDPA20040603_145516_000033252027_00240_11817_8777.N1	03JUN2004 14:55:16	03JUN2004 15:50:41	0	GOOD
9	SCI_OL__2PRDPA20040603_163551_000033122027_00241_11818_8484.N1	03JUN2004 16:35:51	03JUN2004 17:31:04	0	GOOD
10	SCI_OL__2PRDPA20040603_181613_000033572027_00242_11819_8443.N1	03JUN2004 18:16:13	03JUN2004 19:12:10	0	GOOD
11	SCI_OL__2PRDPA20040603_195622_000033812027_00243_11820_8511.N1	03JUN2004 19:56:22	03JUN2004 20:52:44	0	GOOD
12	SCI_OL__2PRDPA20040603_213739_000033122027_00244_11821_8663.N1	03JUN2004 21:37:39	03JUN2004 22:32:52	0	GOOD
13	SCI_OL__2PRDPA20040603_231815_000033252027_00245_11822_8627.N1	03JUN2004 23:18:15	04JUN2004 00:13:40	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: 138840

Total number of cloud data DSRs with good quality flag (=0): 138840 (100.0 %)

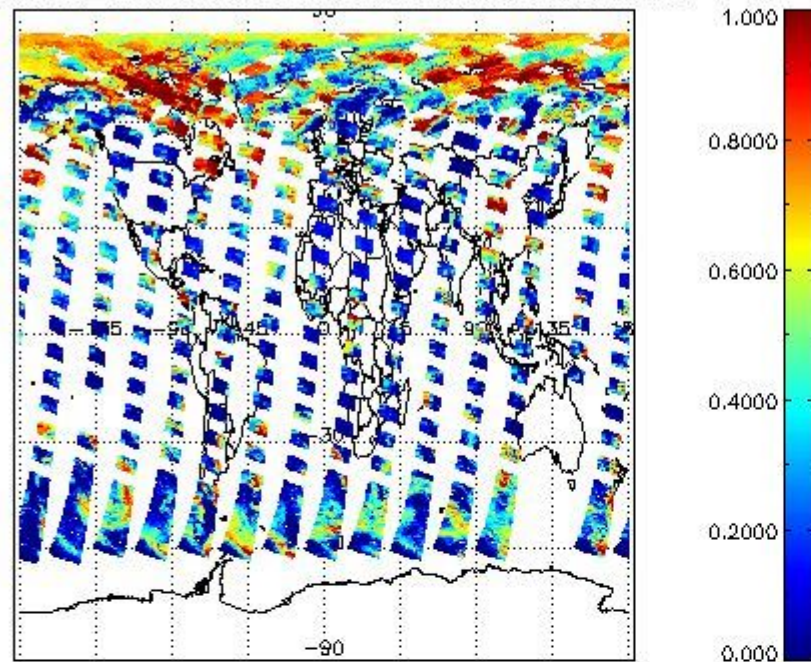
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	138840	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	138840	0.17182	0.12500	0.12500	0.25000	0.060500	s
CL_FRAC	138840	0.38673	0.35196	0.0000	1.0000	0.31267	-
CL_FRAC_ERR	138840	0.0000	0.0000	0.0000	0.0000	0.0000	rel. fraction
PMD_READ	138840	5.4981	4.0000	4.0000	8.0000	1.9360	
PMD_READ_CL[0]	138840	0.37421	0.0000	0.0000	8.0000	1.4259	-
PMD_READ_CL[1]	138840	1.1024	0.0000	0.0000	8.0000	2.1276	-
CL_TOP_HEIGHT	122516	3.2866	1.2780	0.0000	17.000	3.6946	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	122516	59.082	71.047	0.0000	101.00	42.931	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	138840	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	138840	11001010	11000100	11000000	11100000	3321.4	flags
AERO_ABSO_IND	138840	0.70675	0.54686	-4.8344	14.537	1.0729	
AERO_IND_DIAG	138840	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	138840	01011010	00000000	00000000	11000000	24533.	flags

Time and geolocation plots:

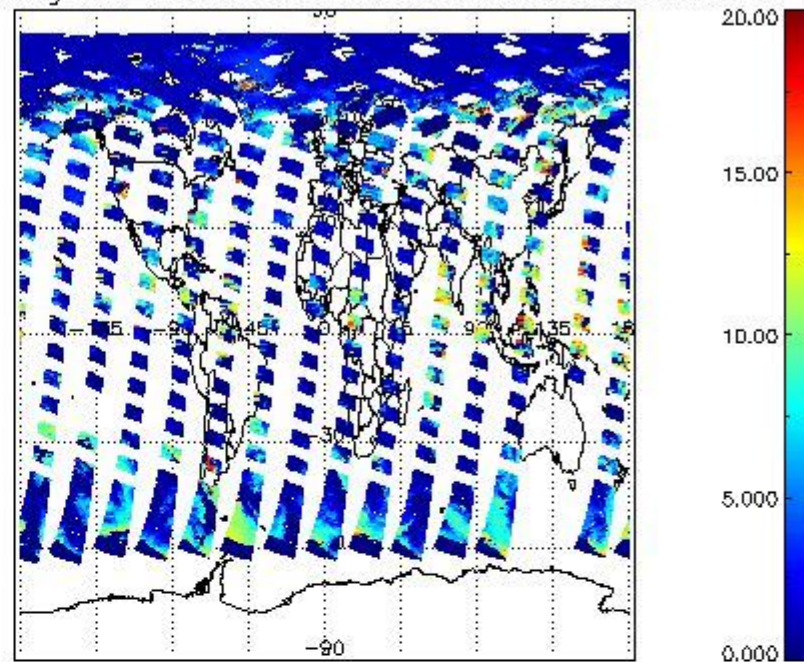
Plots are available for the following parameters:

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

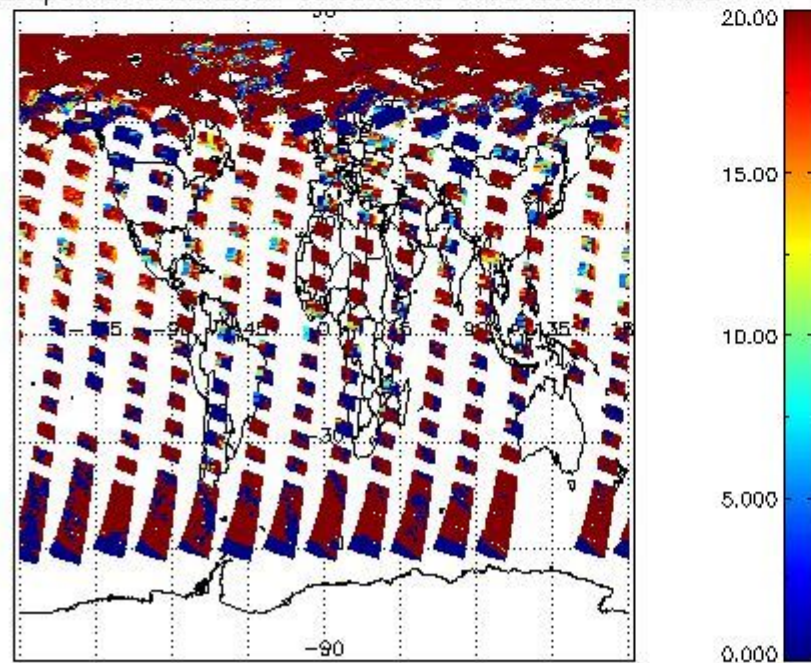
cL_frac for 03JUN2004 00:00:00 to 04JUN2004 00:00:00



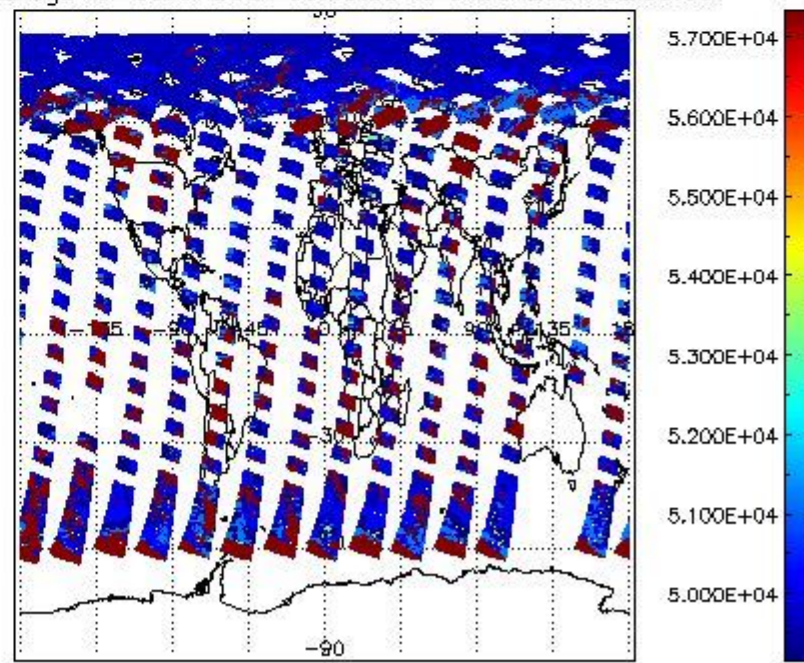
cL_top_height for 03JUN2004 00:00:00 to 04JUN2004 00:00:00



cL_opt_depth for 03JUN2004 00:00:00 to 04JUN2004 00:00:00



cloud_flags for 03JUN2004 00:00:00 to 04JUN2004 00:00:00



2.2.2 Nadir

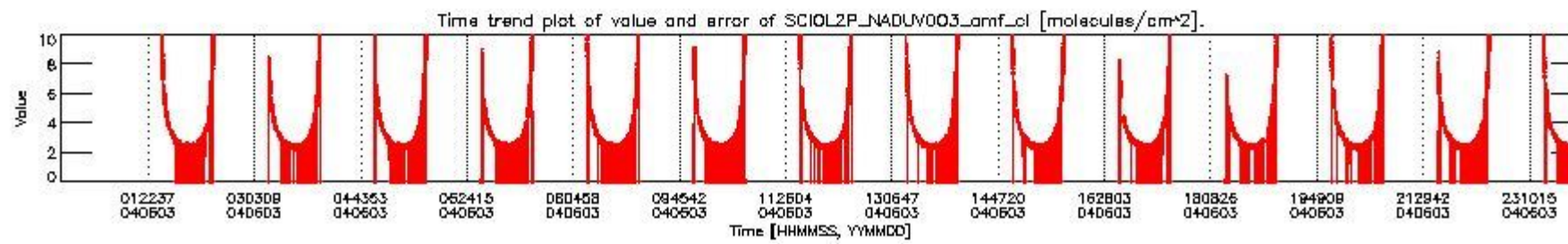
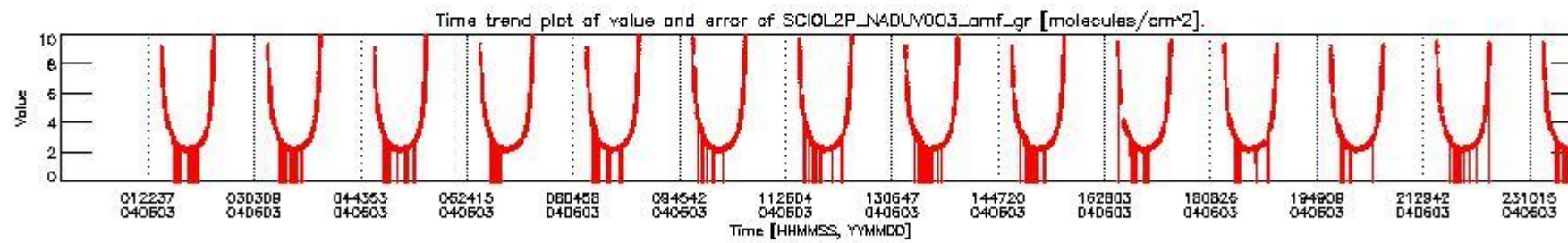
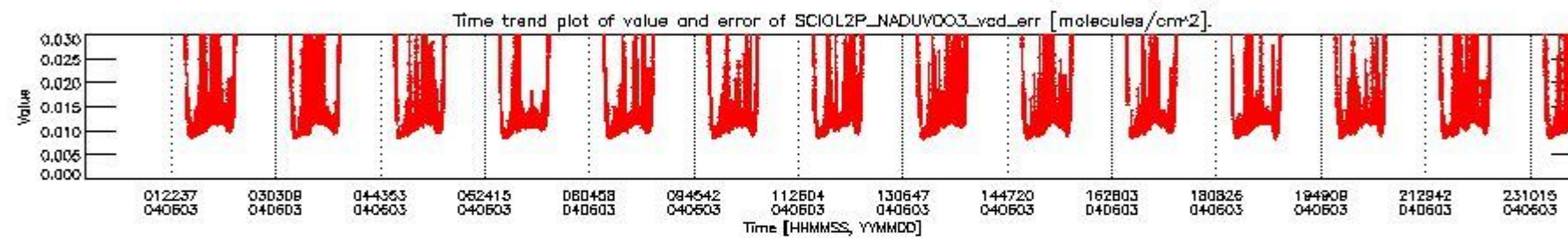
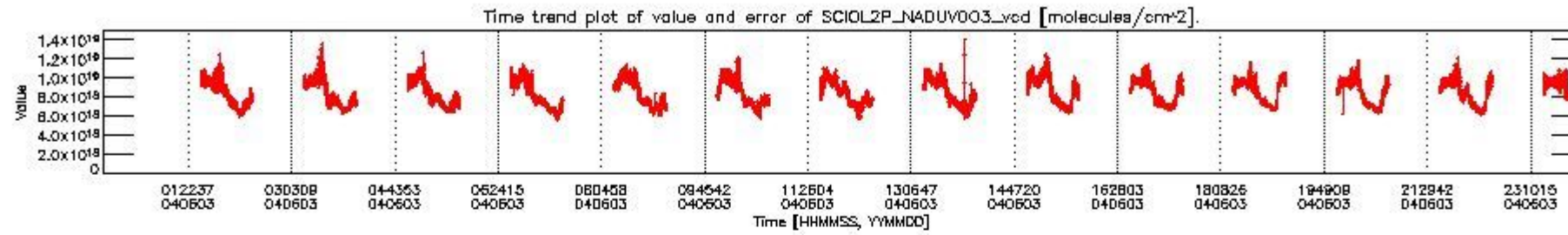
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

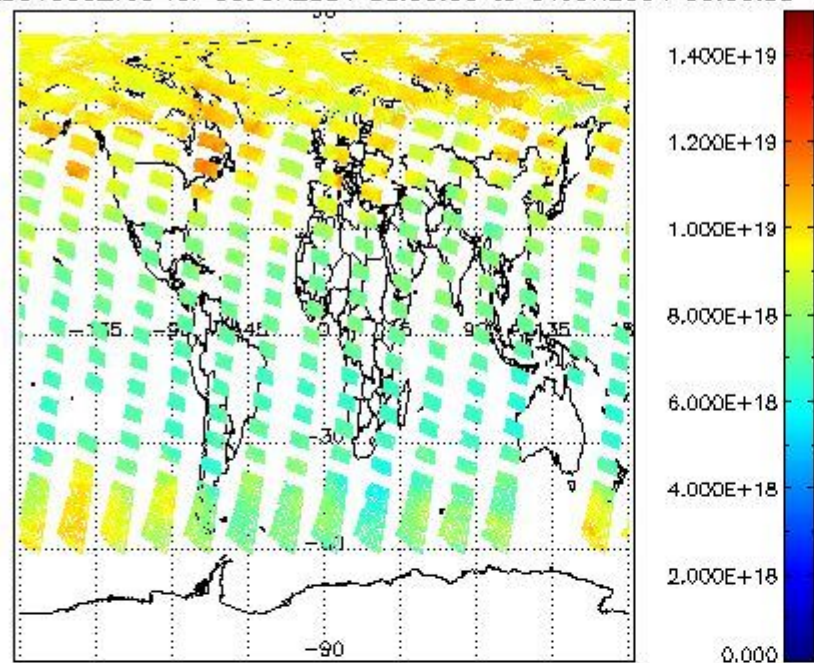
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

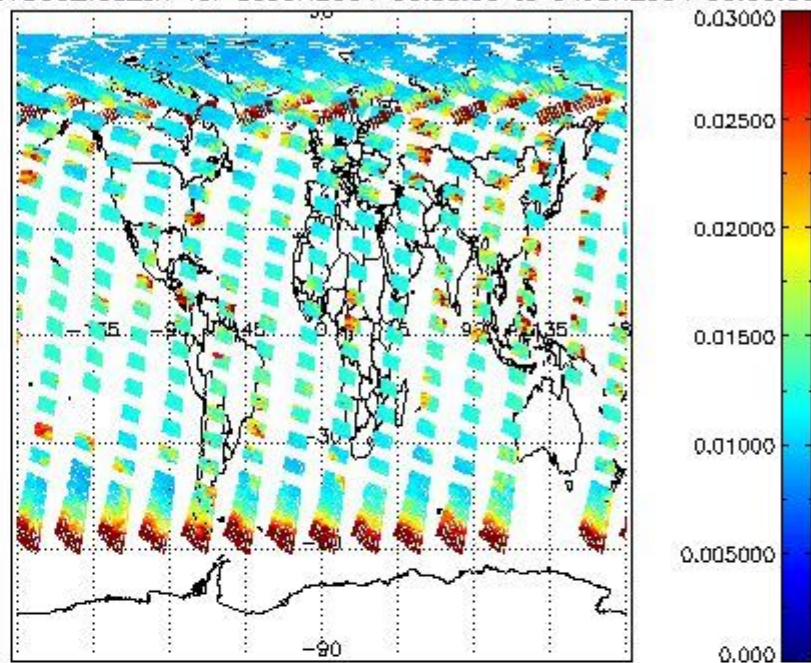
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



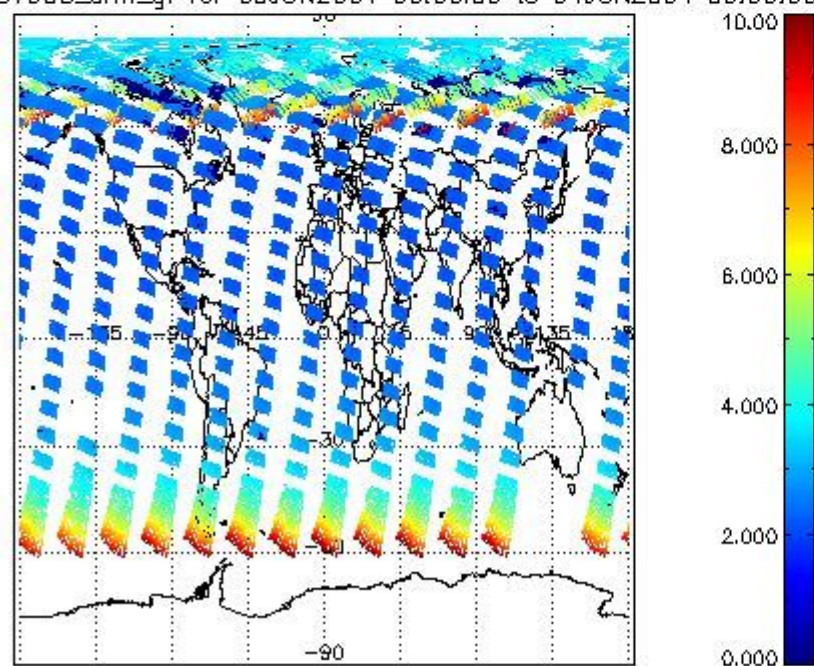
SCIOL2P_NADUV003_vcd for 03JUN2004 00:00:00 to 04JUN2004 00:00:00



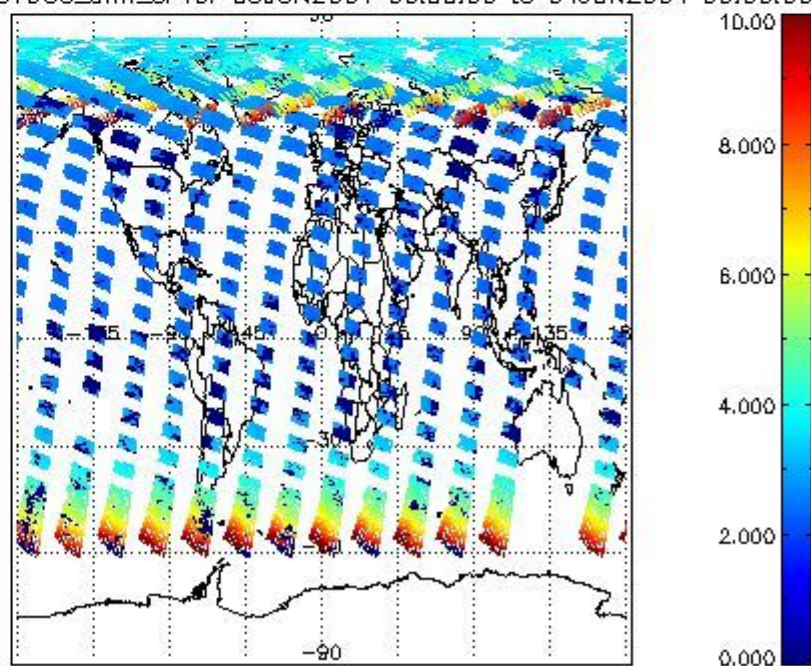
SCIOL2P_NADUV003_vcd_err for 03JUN2004 00:00:00 to 04JUN2004 00:00:00

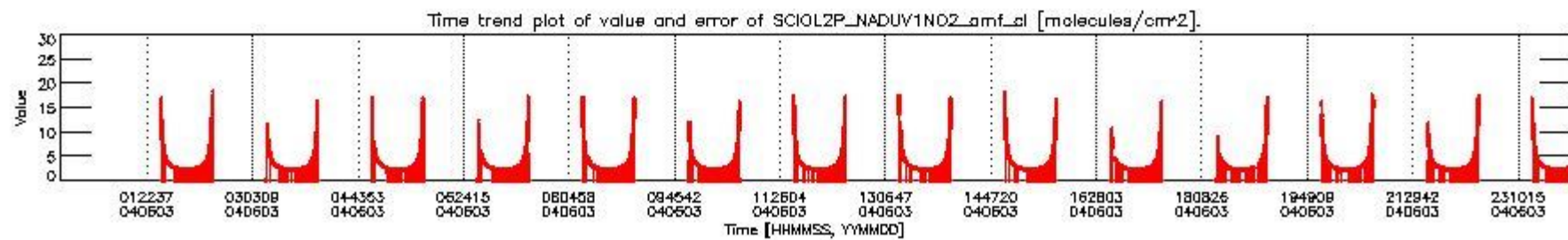
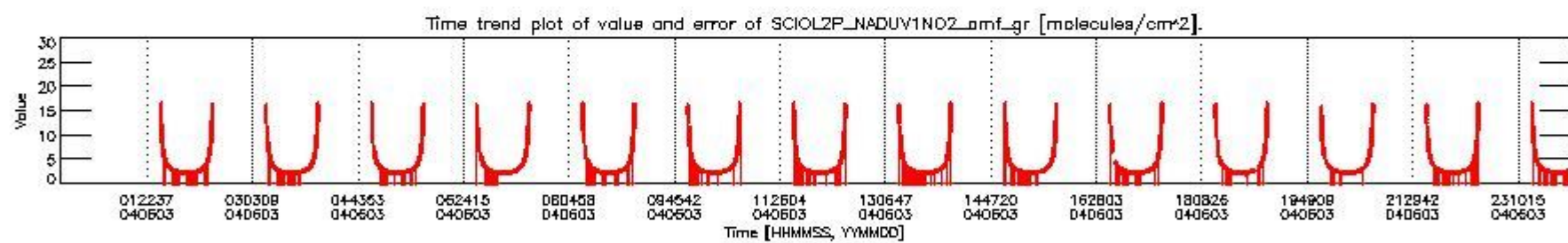
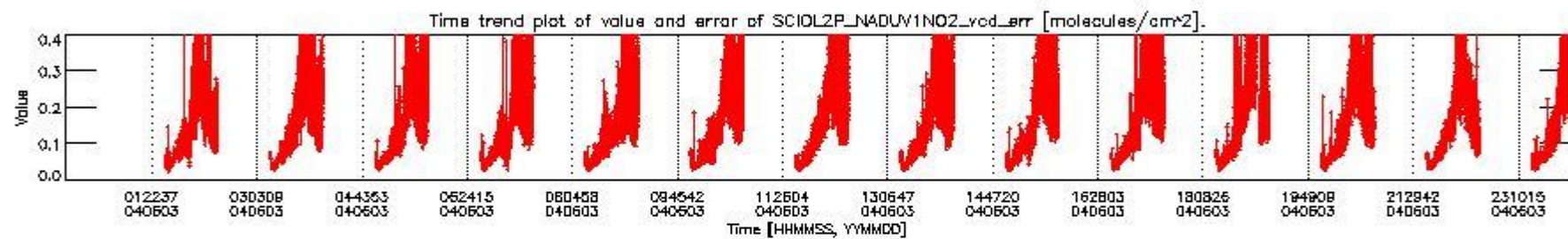
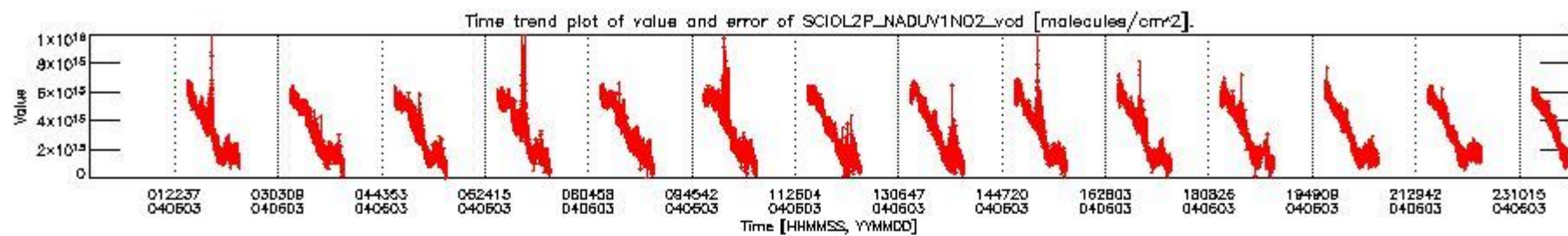


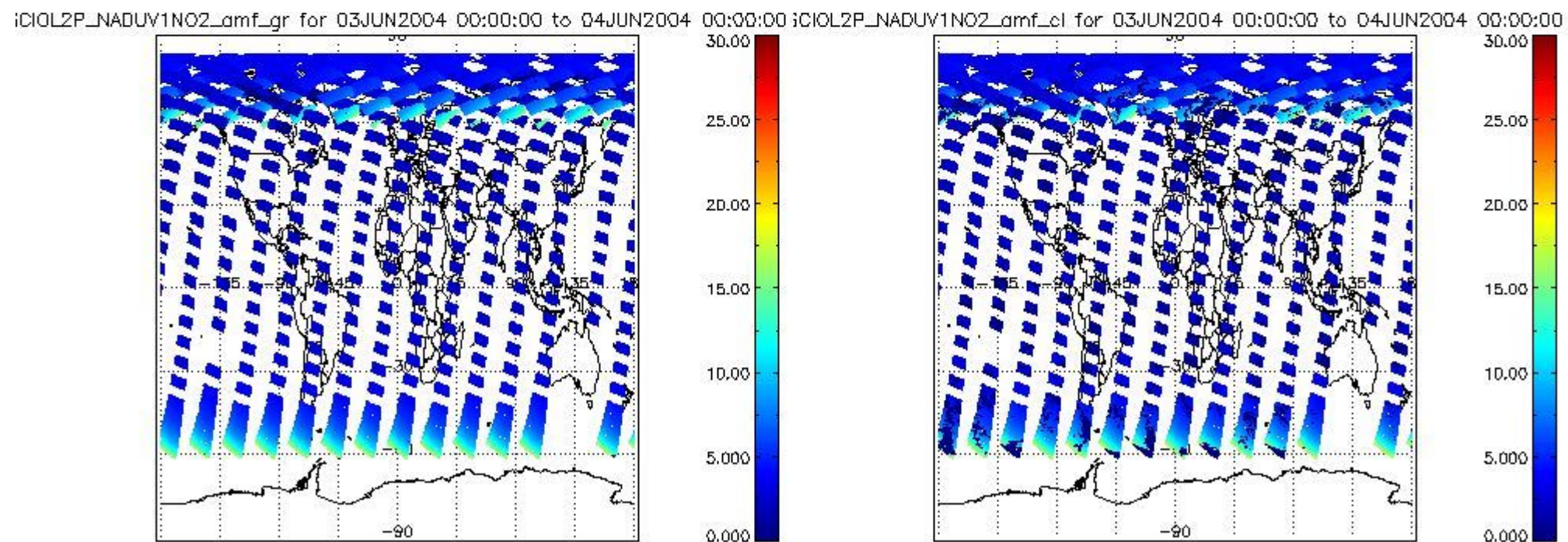
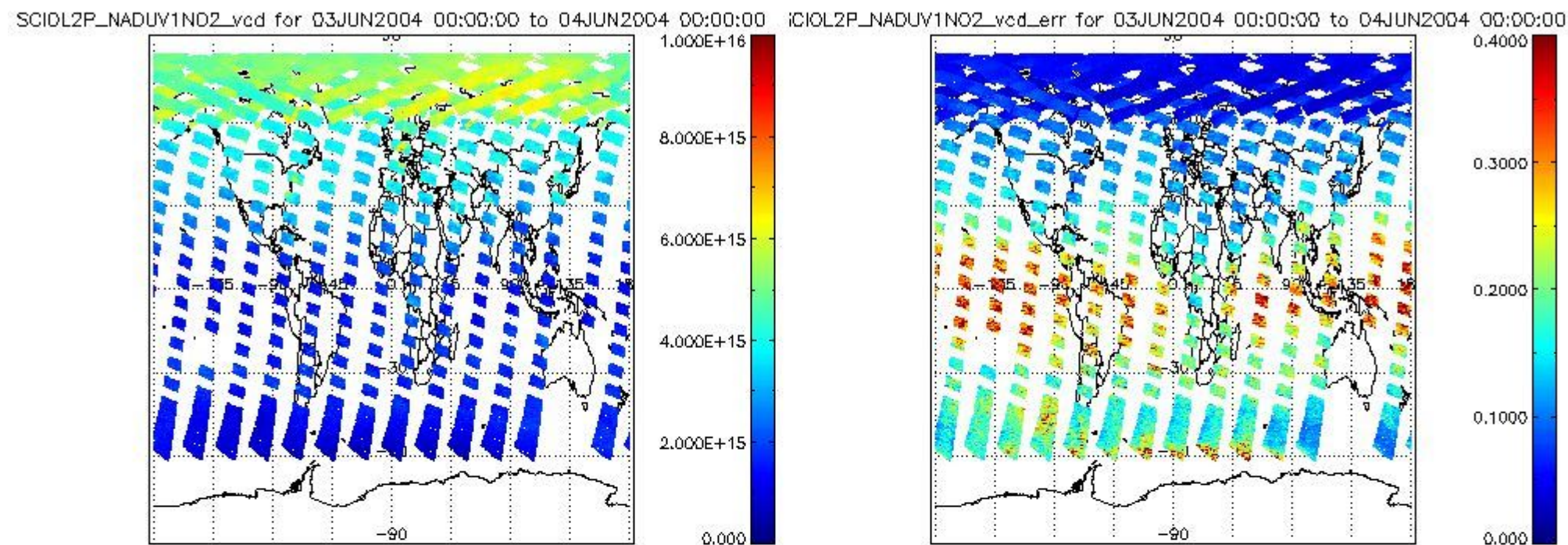
SCIOL2P_NADUV003_amf_gr for 03JUN2004 00:00:00 to 04JUN2004 00:00:00



SCIOL2P_NADUV003_amf_cl for 03JUN2004 00:00:00 to 04JUN2004 00:00:00







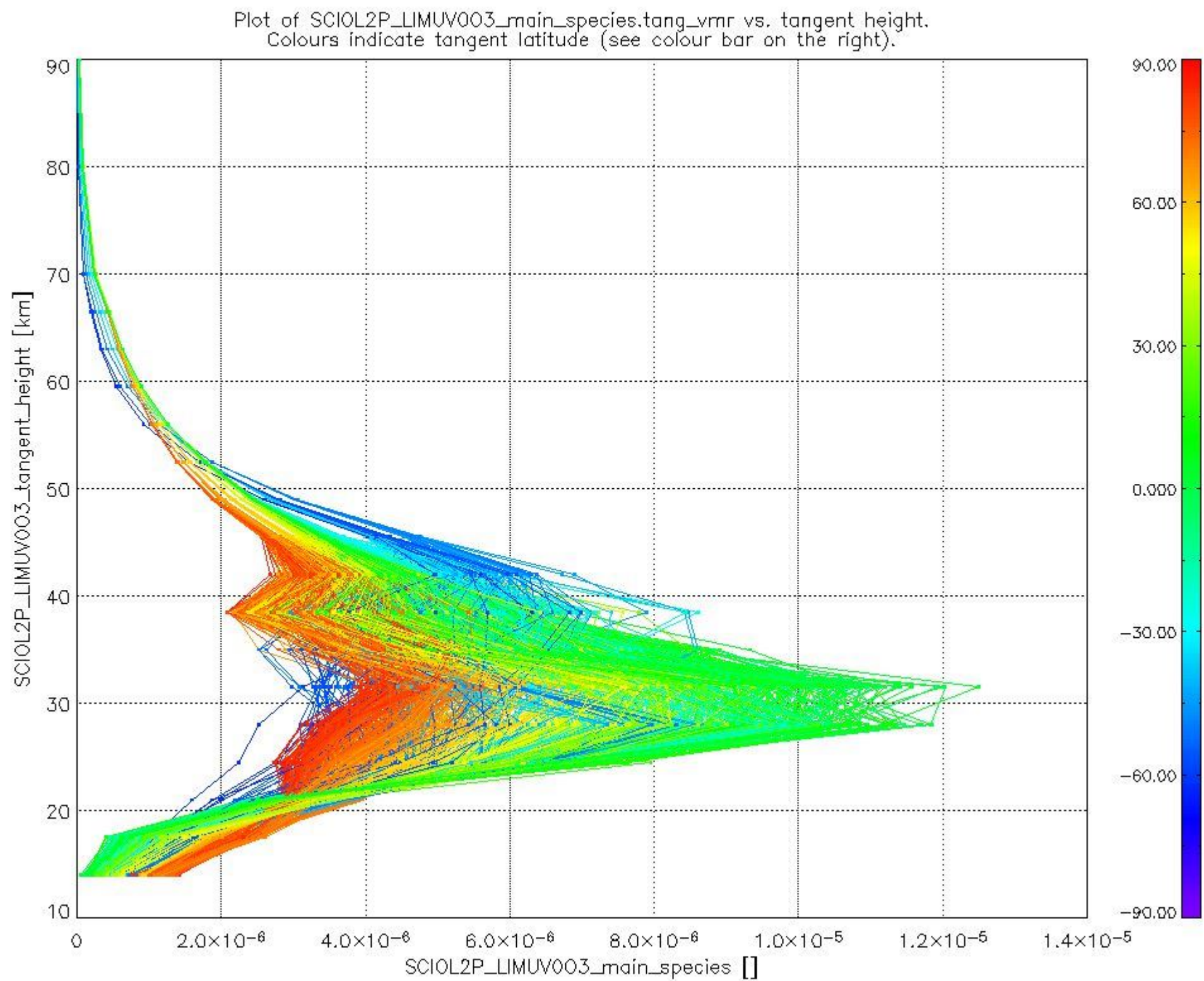
2.2.3 Limb

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

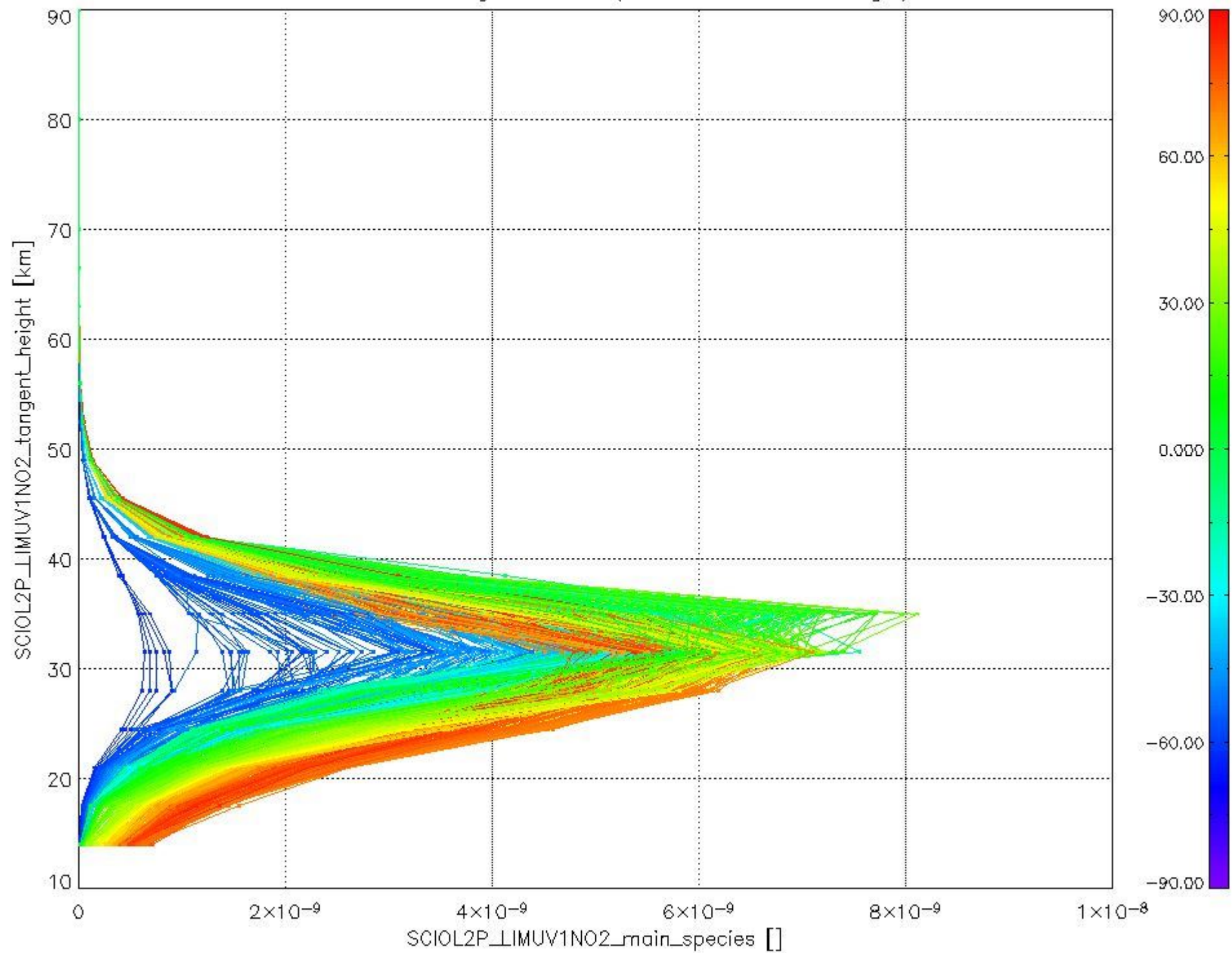
The following data items are currently included into this section:

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.



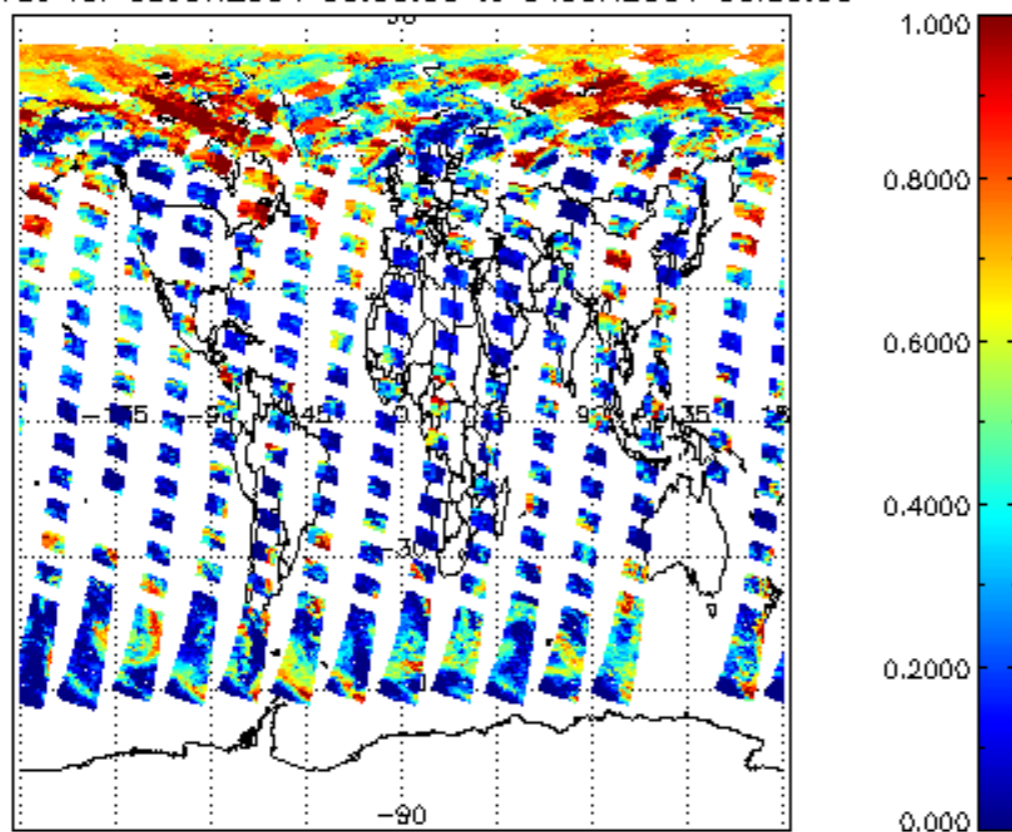
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



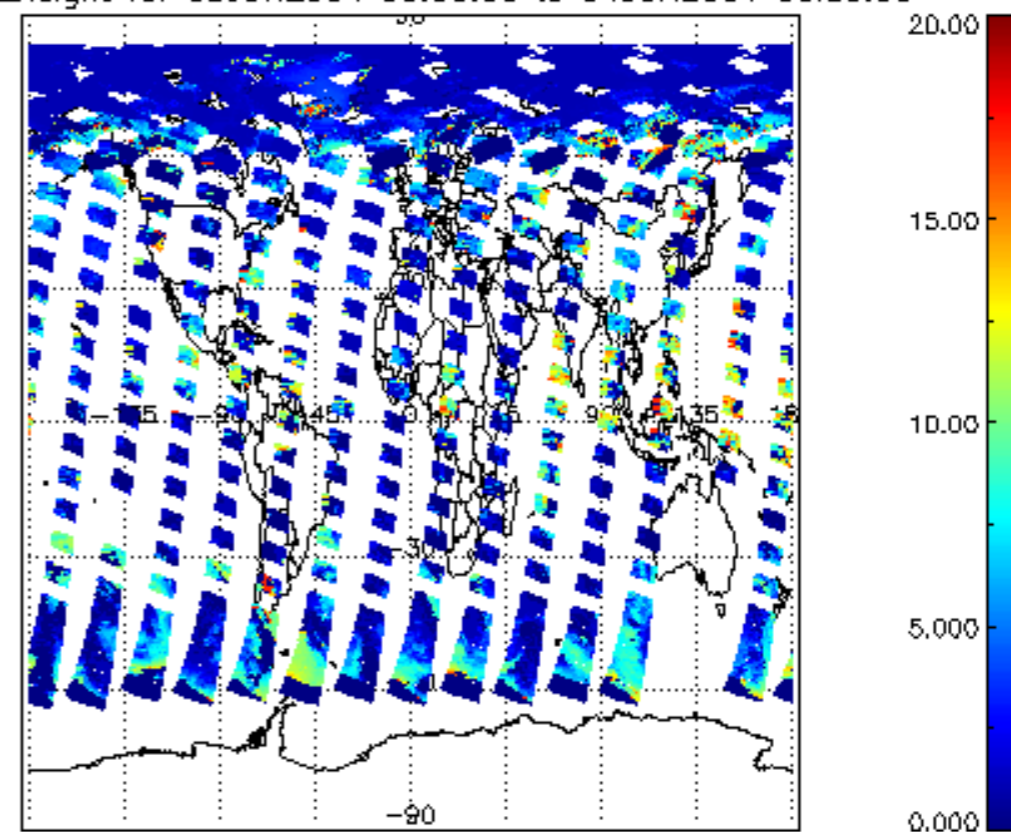
2.3 ADF monitoring

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

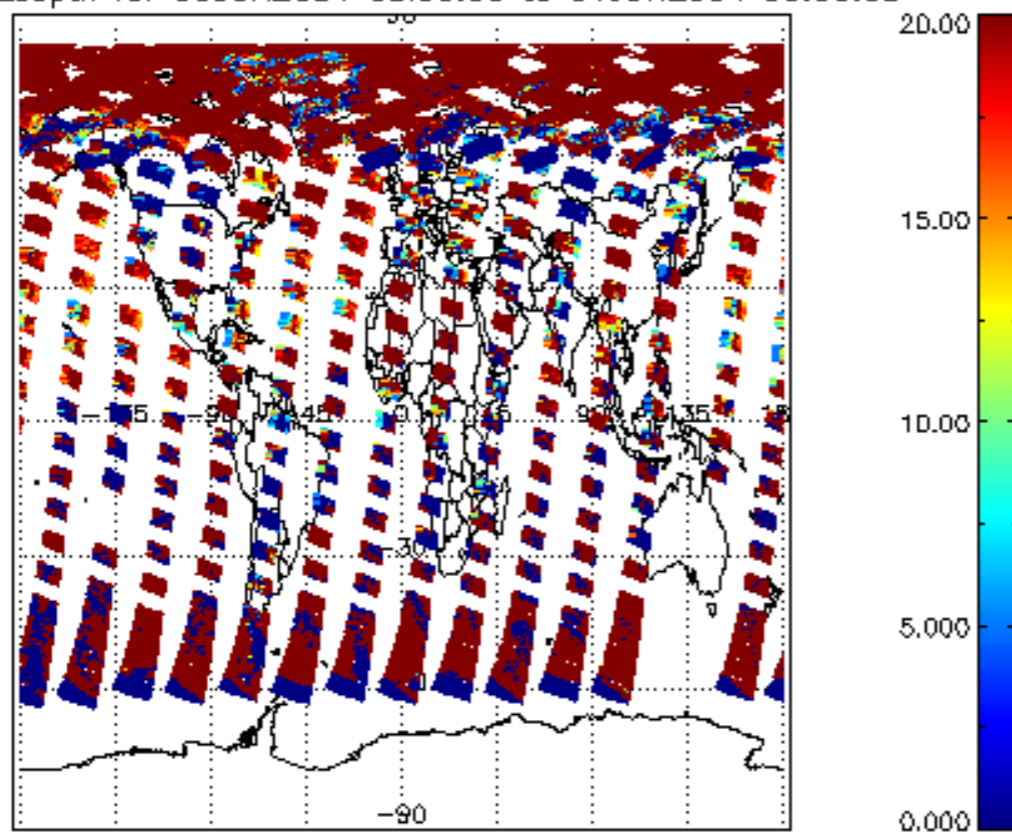
cl_frac for 03JUN2004 00:00:00 to 04JUN2004 00:00:00



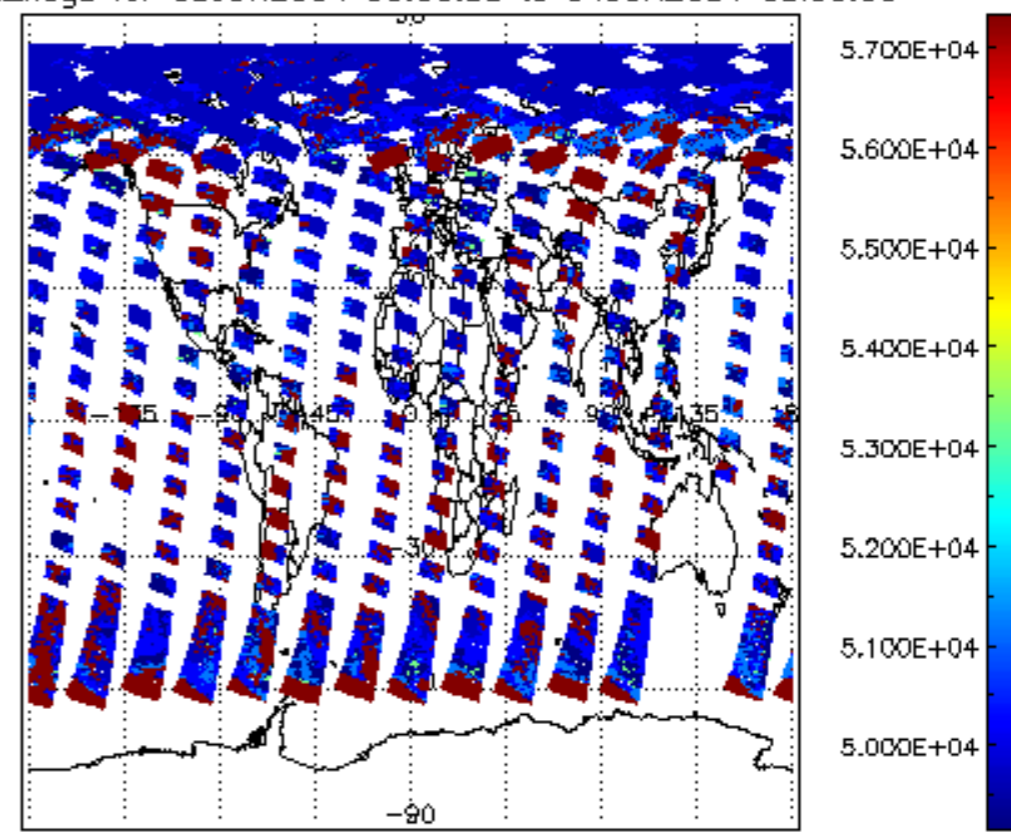
cl_top_height for 03JUN2004 00:00:00 to 04JUN2004 00:00:00

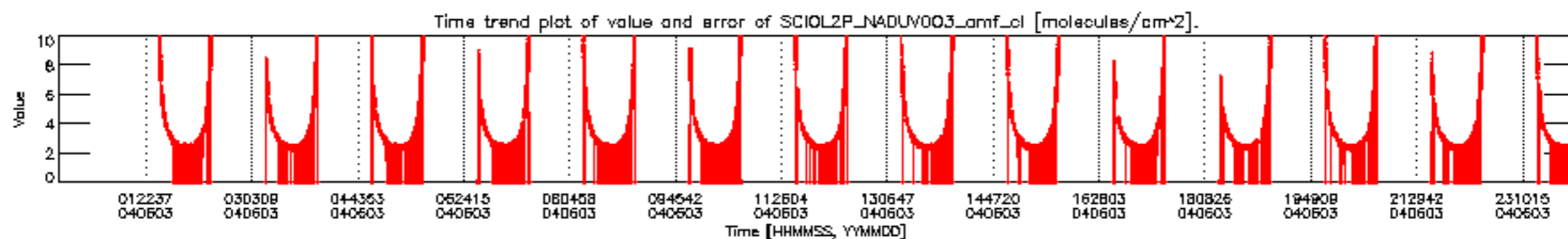
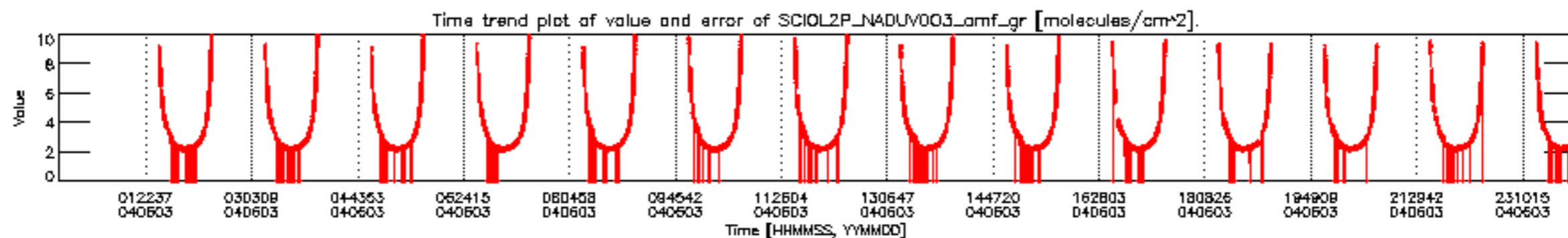
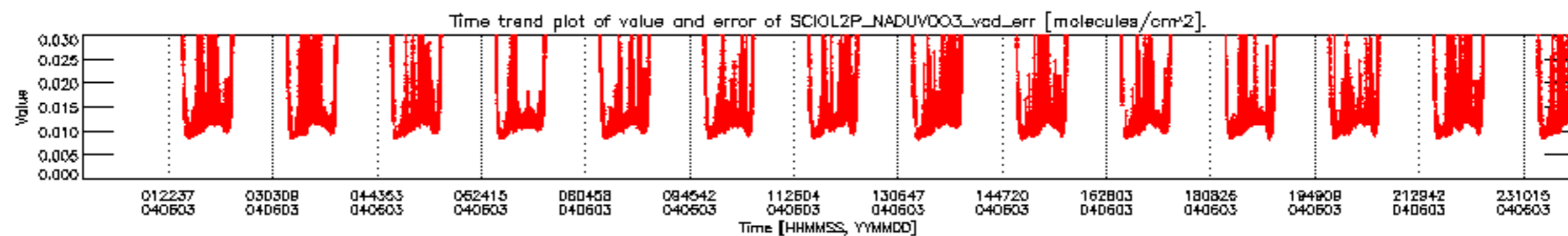
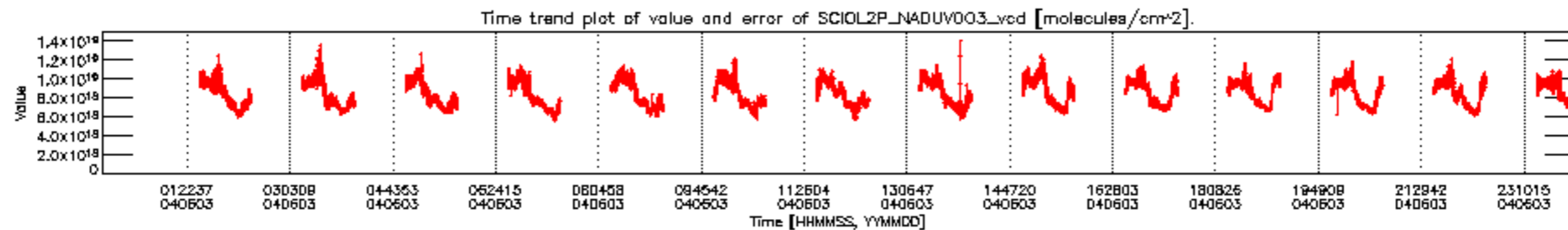


cl_opt_depth for 03JUN2004 00:00:00 to 04JUN2004 00:00:00

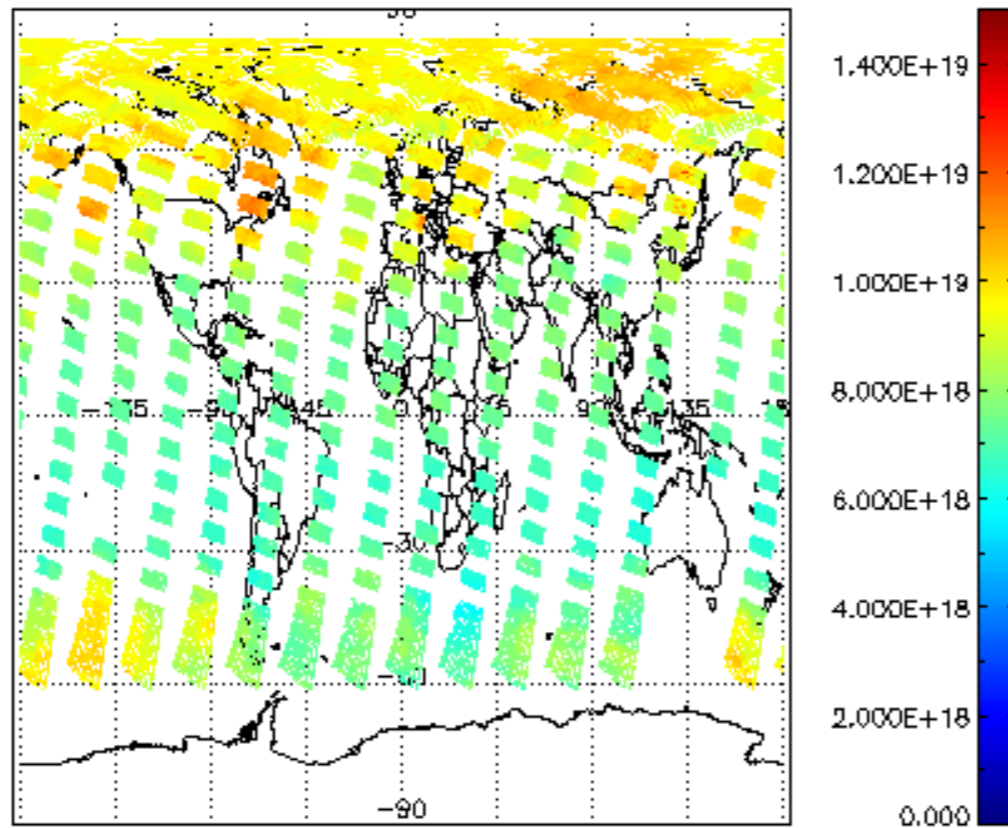


cloud_flags for 03JUN2004 00:00:00 to 04JUN2004 00:00:00

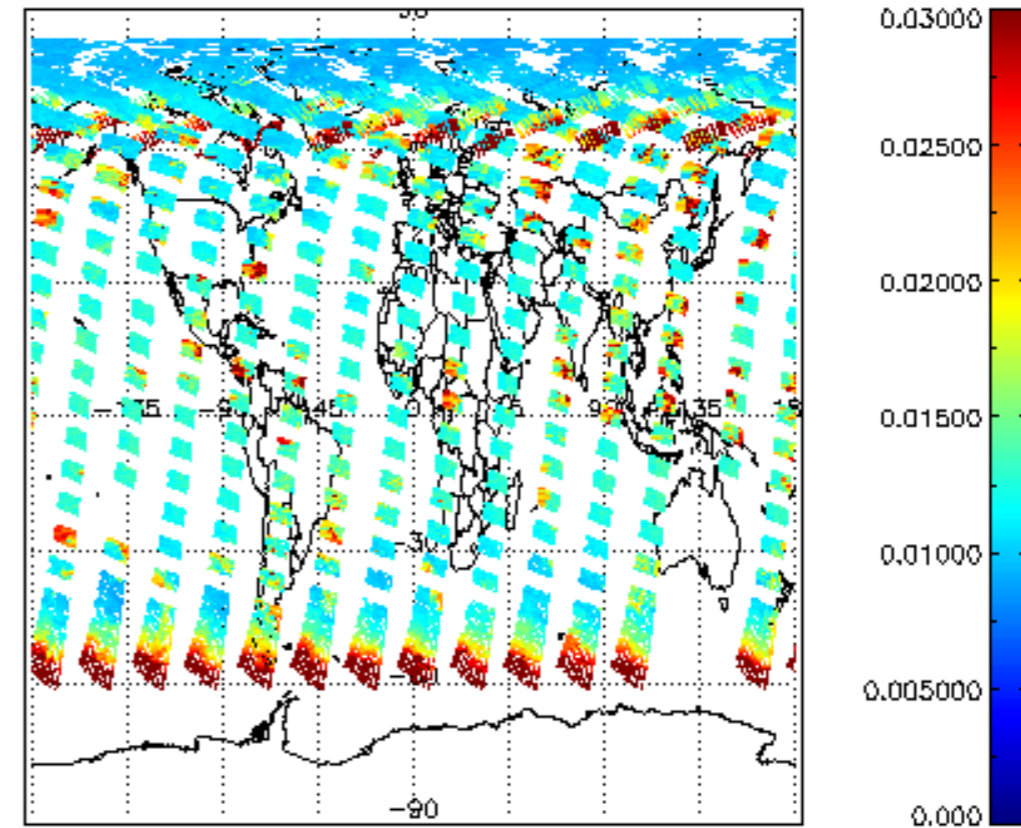




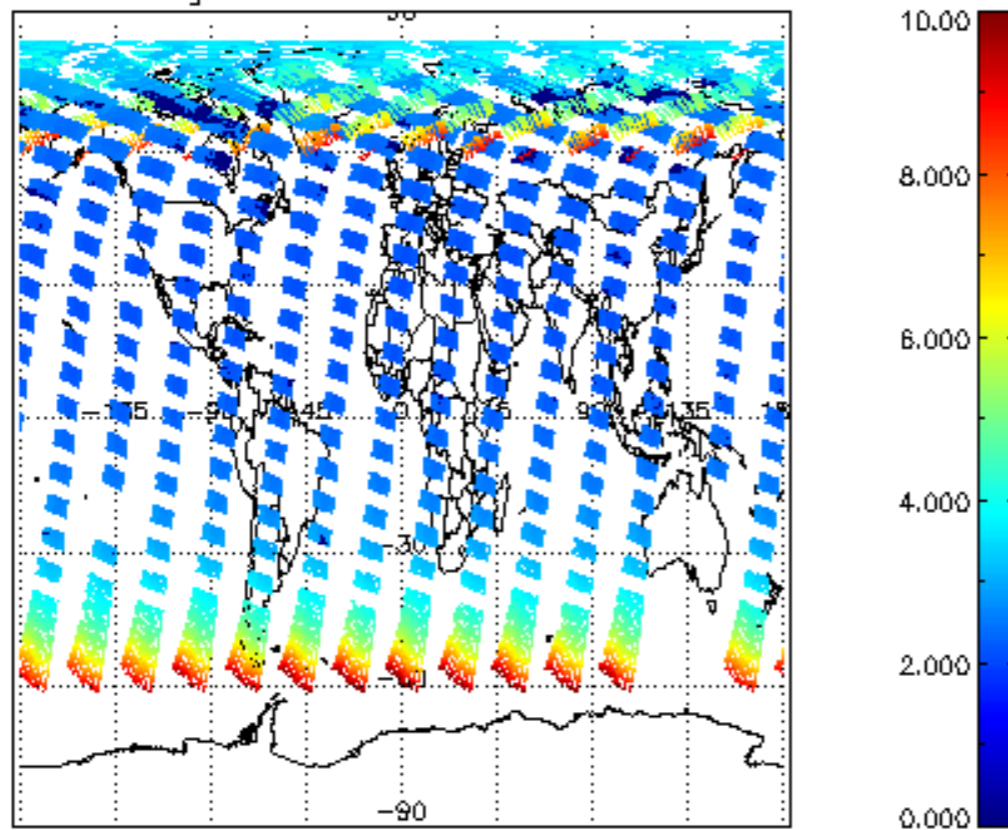
SCIOL2P_NADUV003_vcd for 03JUN2004 00:00:00 to 04JUN2004 00:00:00



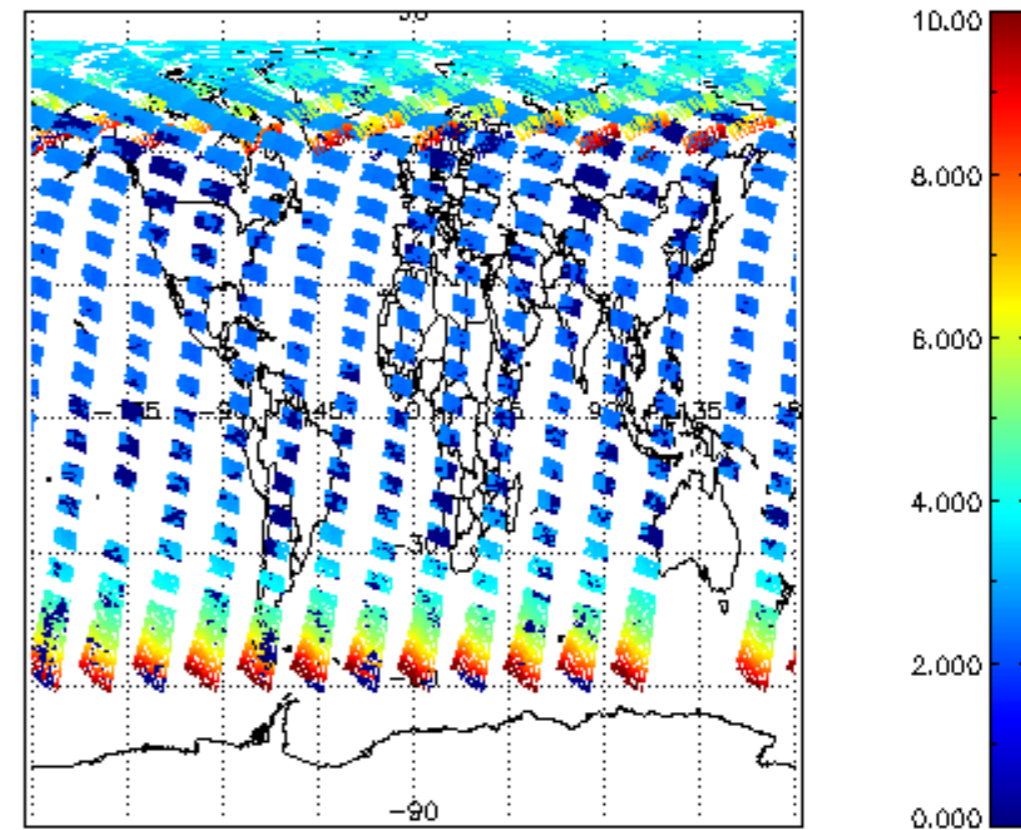
SCIOL2P_NADUV003_vcd_err for 03JUN2004 00:00:00 to 04JUN2004 00:00:00

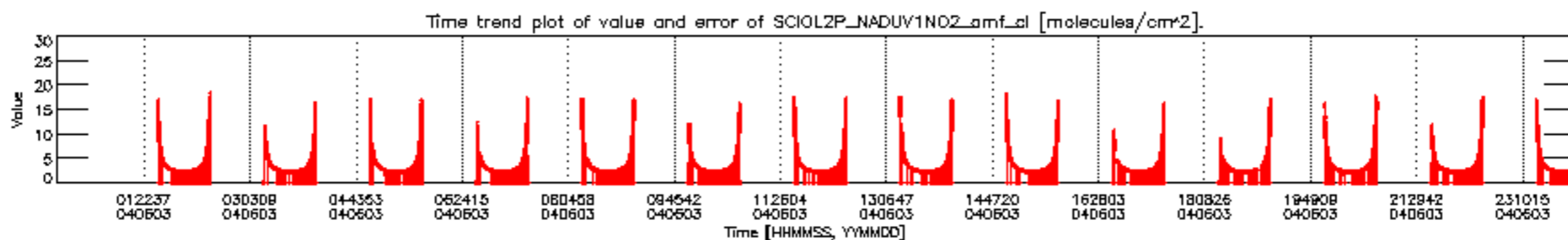
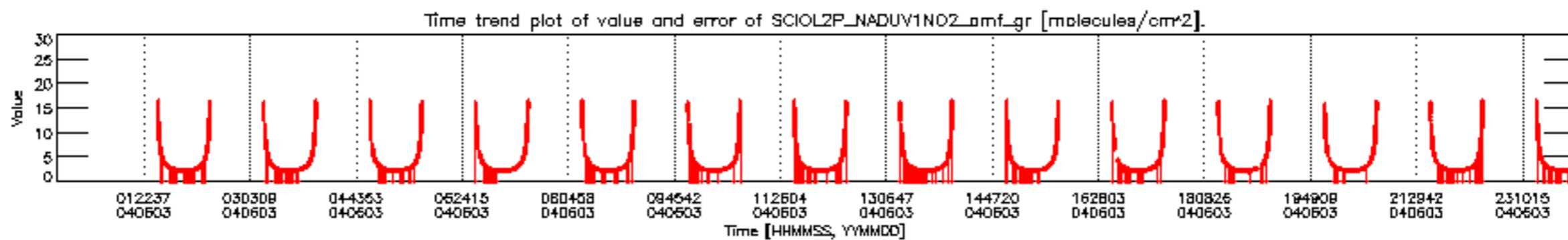
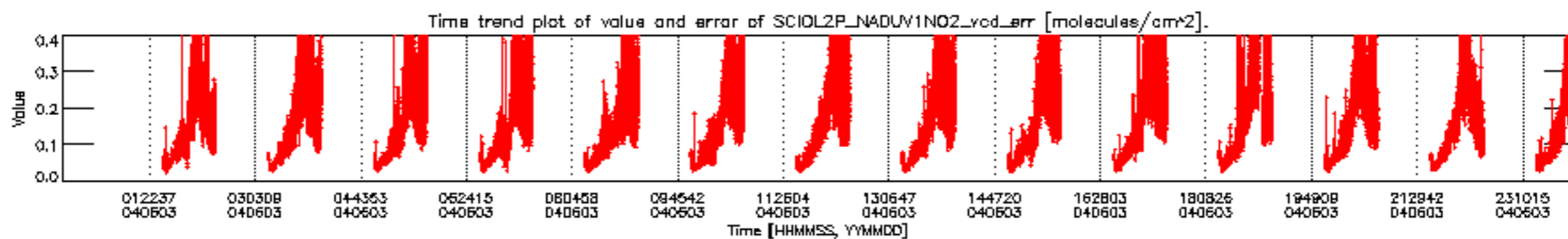
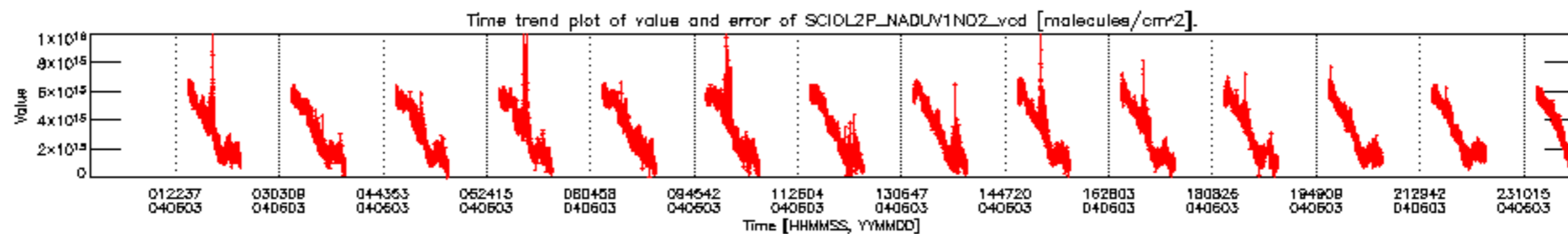


SCIOL2P_NADUV003_amf_gr for 03JUN2004 00:00:00 to 04JUN2004 00:00:00

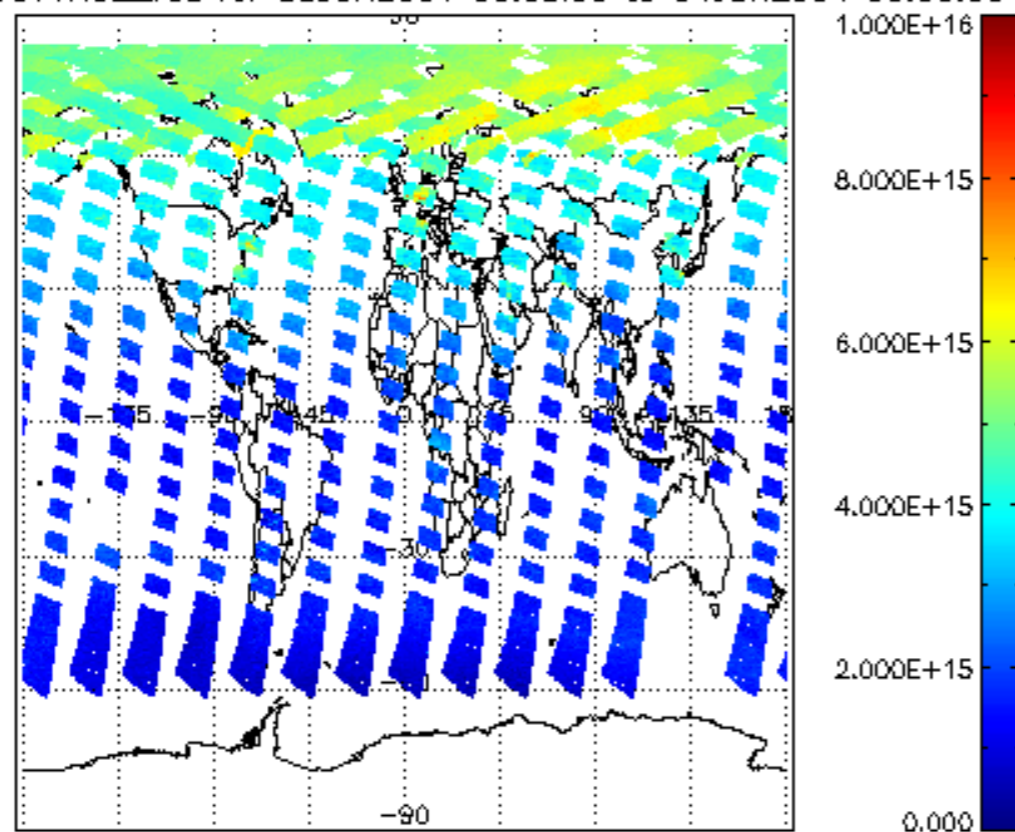


SCIOL2P_NADUV003_amf_cl for 03JUN2004 00:00:00 to 04JUN2004 00:00:00

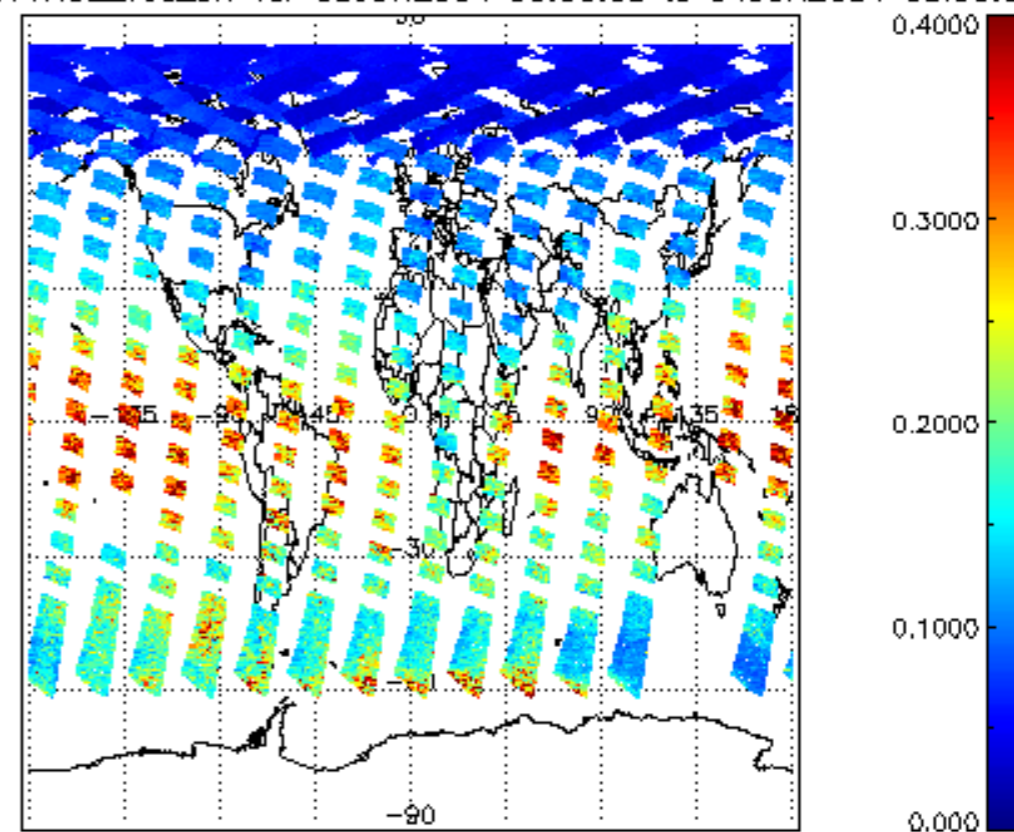




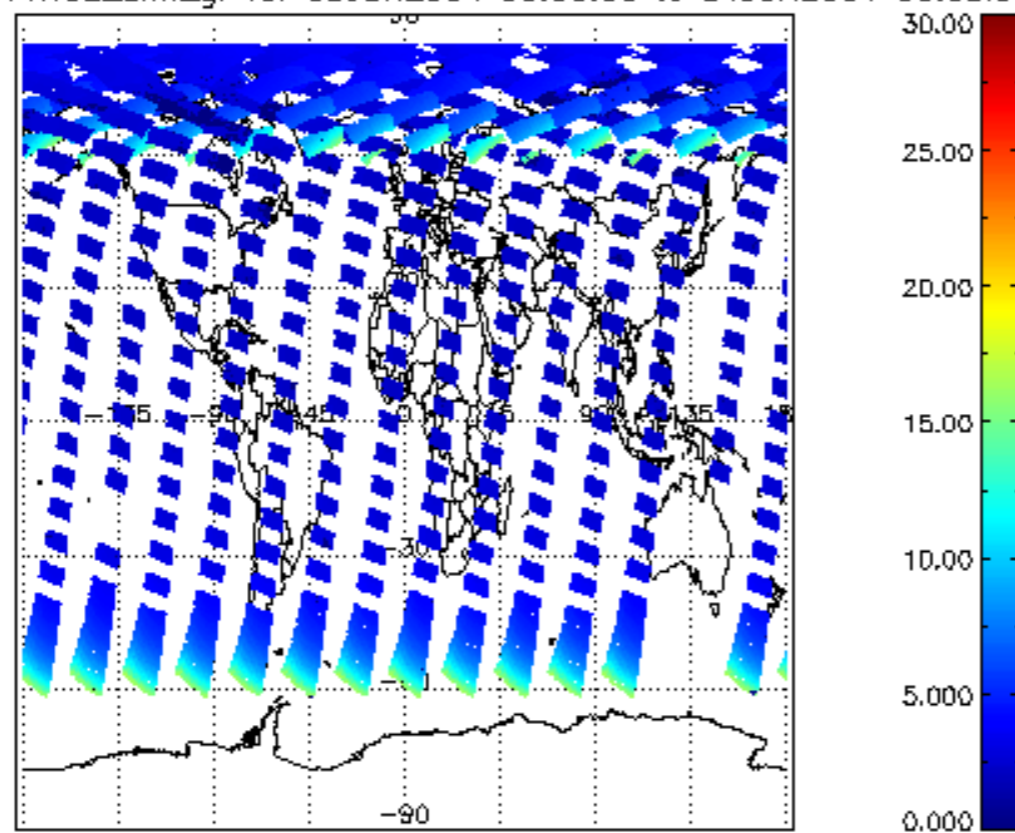
SCIOL2P_NADUV1NO2_vcd for 03JUN2004 00:00:00 to 04JUN2004 00:00:00



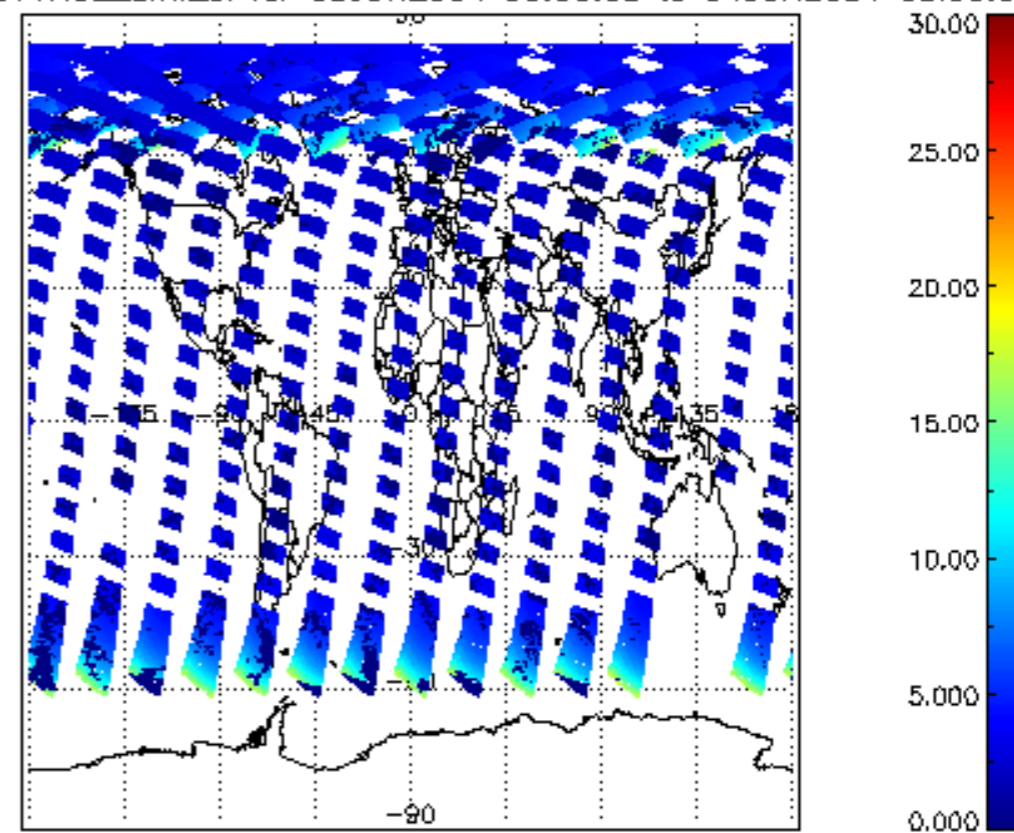
iCIOL2P_NADUV1NO2_vcd_err for 03JUN2004 00:00:00 to 04JUN2004 00:00:00



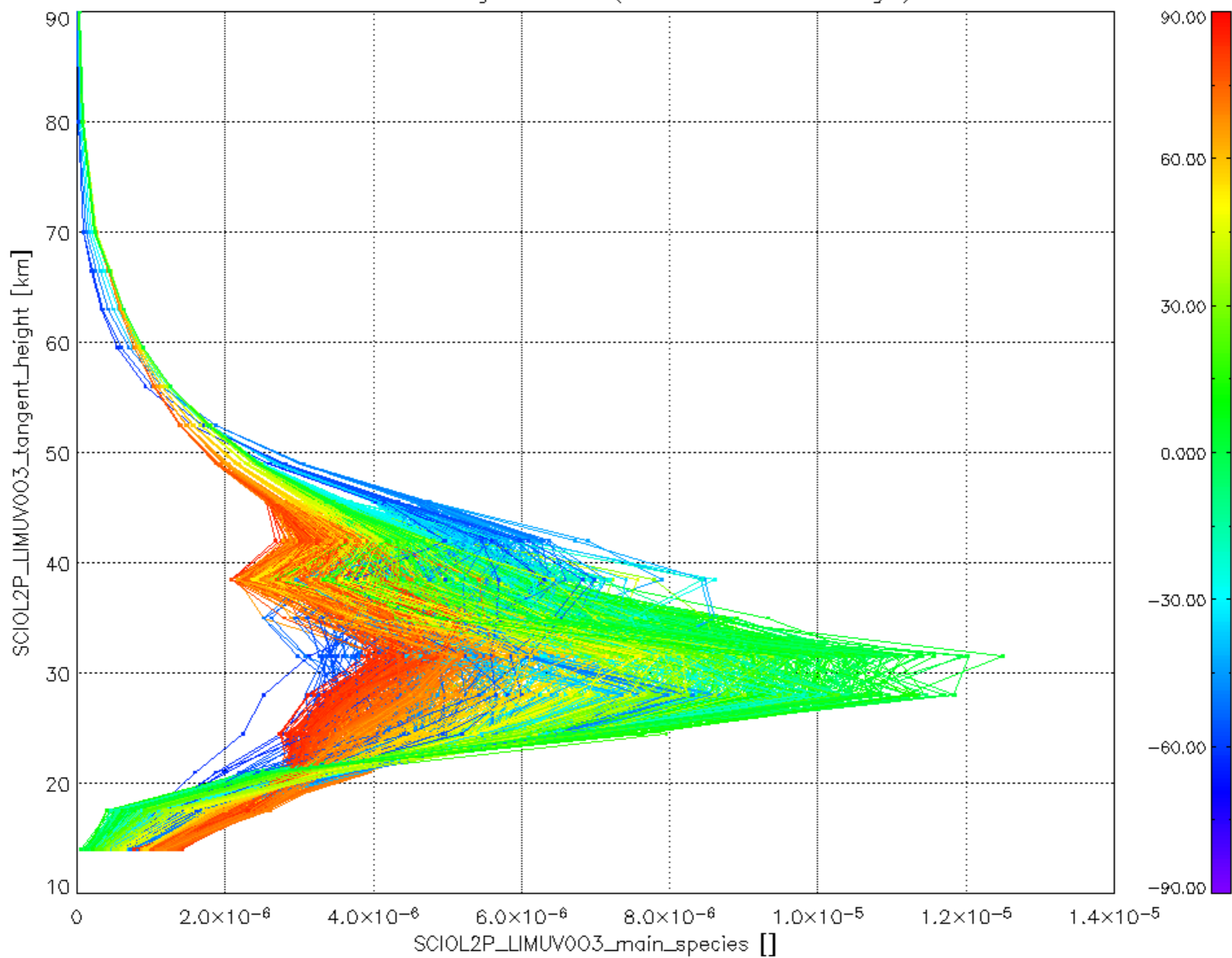
iCIOL2P_NADUV1NO2_amf_gr for 03JUN2004 00:00:00 to 04JUN2004 00:00:00



iCIOL2P_NADUV1NO2_amf_cl for 03JUN2004 00:00:00 to 04JUN2004 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).

