

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 07:48:48
Data source version	SCIA-OL/3.01-R
Processing scope for products	09JUN2004 00:00:00 to 10JUN2004 00:00:00
Start time of first product within scope	09JUN2004 00:01:12
Stop time of last product within scope	10JUN2004 00:24:46
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_000112_000033122027_00317_11894_8685.N1	09JUN2004 00:01:12	09JUN2004 00:56:24	0	GOOD
1	SCI_OL__2PRDPA20040609_014147_000033252027_00318_11895_8546.N1	09JUN2004 01:41:47	09JUN2004 02:37:13	0	GOOD
2	SCI_OL__2PRDPA20040609_032223_000033122027_00319_11896_8509.N1	09JUN2004 03:22:23	09JUN2004 04:17:36	0	GOOD
3	SCI_OL__2PRDPA20040609_050259_000033252027_00320_11897_8616.N1	09JUN2004 05:02:59	09JUN2004 05:58:25	0	GOOD
4	SCI_OL__2PRDPA20040609_064335_000033122027_00321_11898_8693.N1	09JUN2004 06:43:35	09JUN2004 07:38:48	0	GOOD
5	SCI_OL__2PRDPA20040609_082411_000033252027_00322_11899_8787.N1	09JUN2004 08:24:11	09JUN2004 09:19:36	0	GOOD
6	SCI_OL__2PRDPA20040609_100447_000033122027_00323_11900_8750.N1	09JUN2004 10:04:47	09JUN2004 10:59:59	0	GOOD
7	SCI_OL__2PRDPA20040609_114522_000033252027_00324_11901_8583.N1	09JUN2004 11:45:22	09JUN2004 12:40:48	0	GOOD
8	SCI_OL__2PRDPA20040609_132558_000033122027_00325_11902_8477.N1	09JUN2004 13:25:58	09JUN2004 14:21:11	0	GOOD
9	SCI_OL__2PRDPA20040609_150634_000033252027_00326_11903_8775.N1	09JUN2004 15:06:34	09JUN2004 16:01:59	0	GOOD
10	SCI_OL__2PRDPA20040609_164710_000033122027_00327_11904_8738.N1	09JUN2004 16:47:10	09JUN2004 17:42:23	0	GOOD
11	SCI_OL__2PRDPA20040609_182732_000033162027_00328_11905_8575.N1	09JUN2004 18:27:32	09JUN2004 19:22:49	0	GOOD
12	SCI_OL__2PRDPA20040609_200740_000033682027_00329_11906_8582.N1	09JUN2004 20:07:40	09JUN2004 21:03:49	0	GOOD
13	SCI_OL__2PRDPA20040609_214857_000033252027_00330_11907_8734.N1	09JUN2004 21:48:57	09JUN2004 22:44:23	0	GOOD
14	SCI_OL__2PRDPA20040609_232933_000033122027_00331_11908_8432.N1	09JUN2004 23:29:33	10JUN2004 00:24:46	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: 146900

Total number of cloud data DSRs with good quality flag (=0): 146900 (100.0 %)

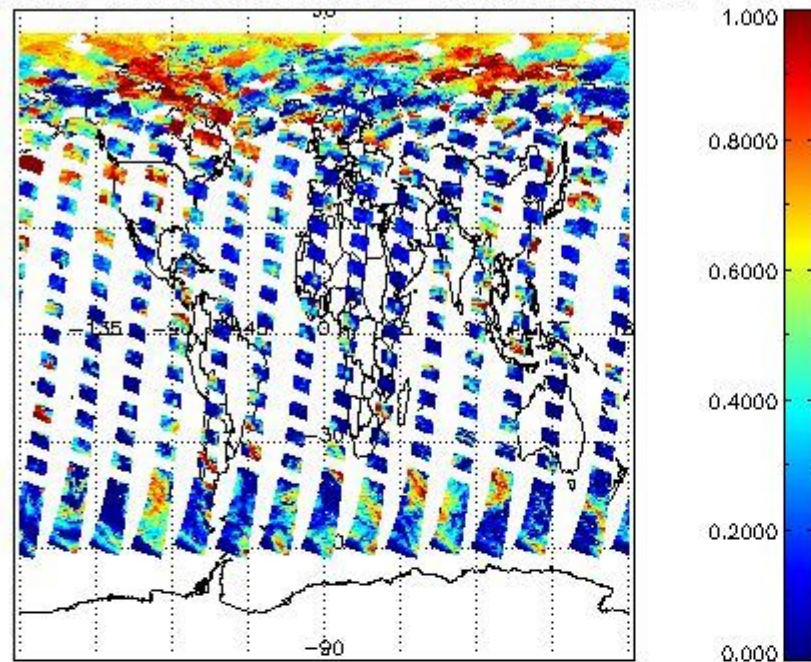
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	146900	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	146900	0.17124	0.12500	0.12500	0.25000	0.060348	s
CL_FRAC	146900	0.35549	0.29669	0.0000	1.0000	0.30831	-
CL_FRAC_ERR	146900	0.0000	0.0000	0.0000	0.0000	0.0000	rel. fraction
PMD_READ	146900	5.4796	4.0000	4.0000	8.0000	1.9311	
PMD_READ_CL[0]	146900	0.32462	0.0000	0.0000	8.0000	1.3447	-
PMD_READ_CL[1]	146900	1.2164	0.0000	0.0000	8.0000	2.1728	-
CL_TOP_HEIGHT	127980	3.1984	1.1900	0.0000	17.000	3.7208	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	127980	56.707	57.509	0.0000	101.00	43.863	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	146900	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	146900	11001011	11000100	11000000	11100000	3459.0	flags
AERO_ABSO_IND	146900	0.73161	0.53352	-4.5312	10.539	1.0822	
AERO_IND_DIAG	146900	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	146900	01011001	00000000	00000000	11000000	24517.	flags

Time and geolocation plots:

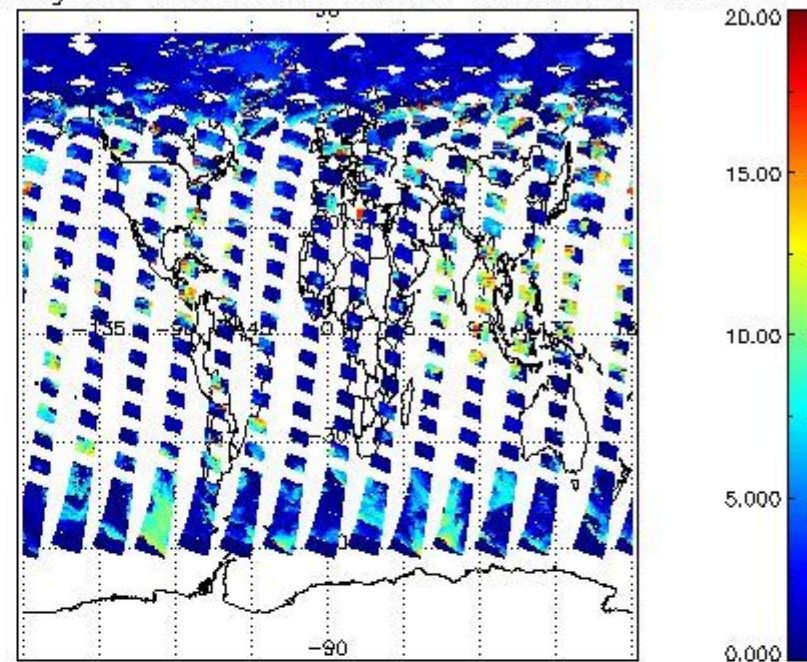
Plots are available for the following parameters:

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

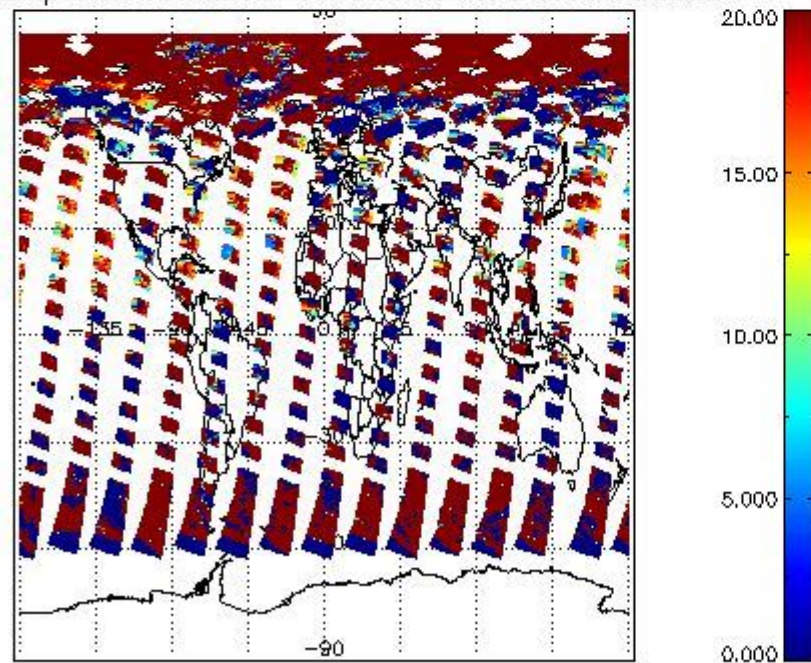
cL_frac for 09JUN2004 00:00:00 to 10JUN2004 00:00:00



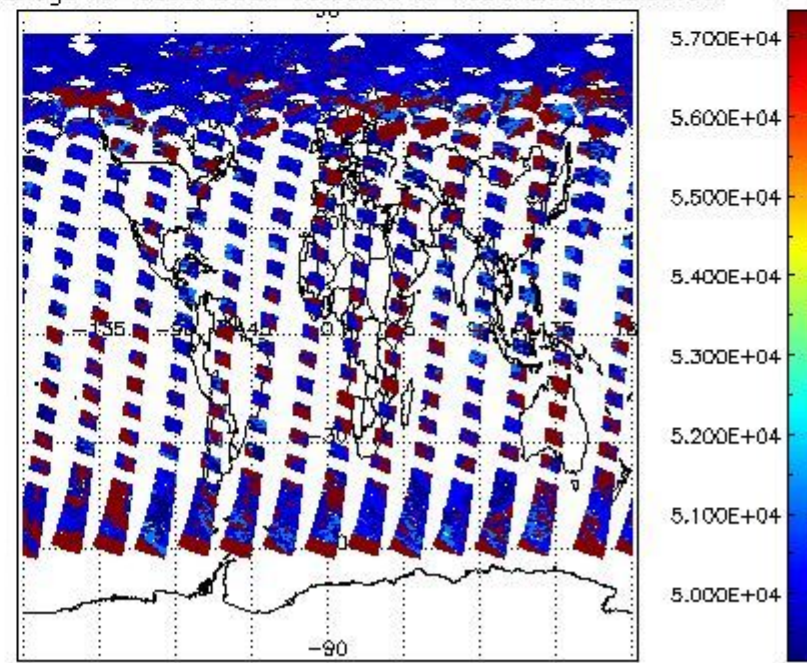
cL_top_height for 09JUN2004 00:00:00 to 10JUN2004 00:00:00



cL_opt_depth for 09JUN2004 00:00:00 to 10JUN2004 00:00:00



cloud_flags for 09JUN2004 00:00:00 to 10JUN2004 00:00:00



2.2.2 Nadir

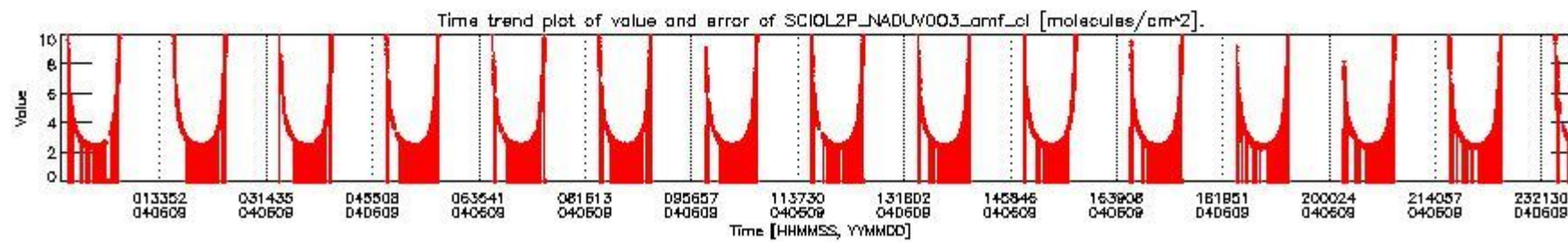
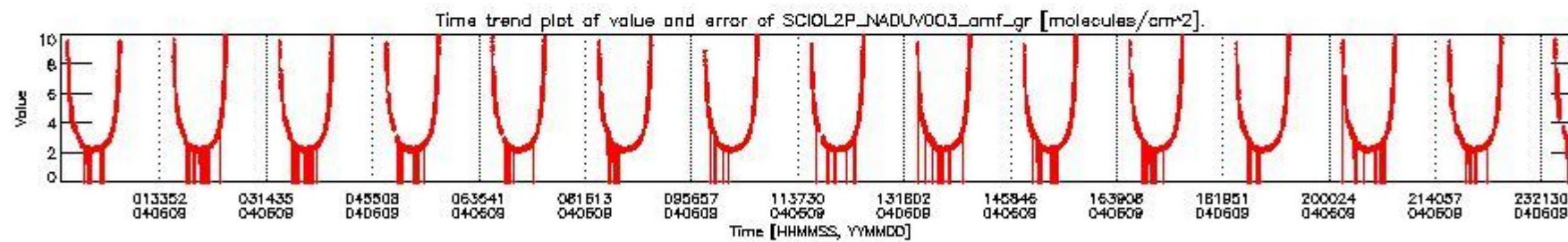
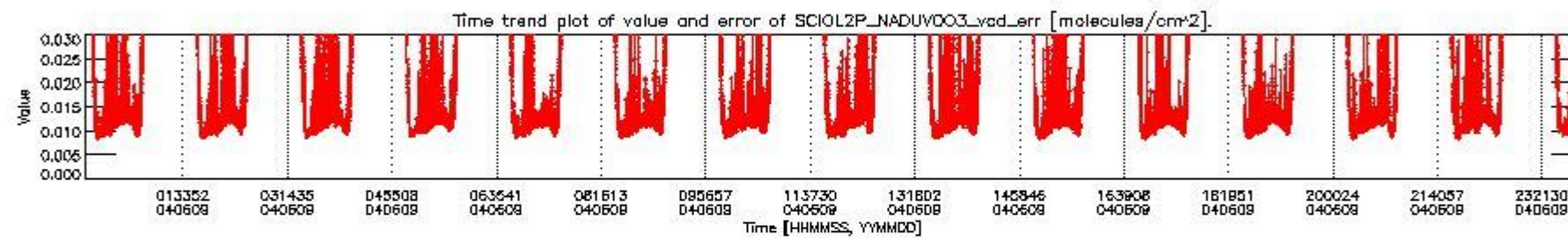
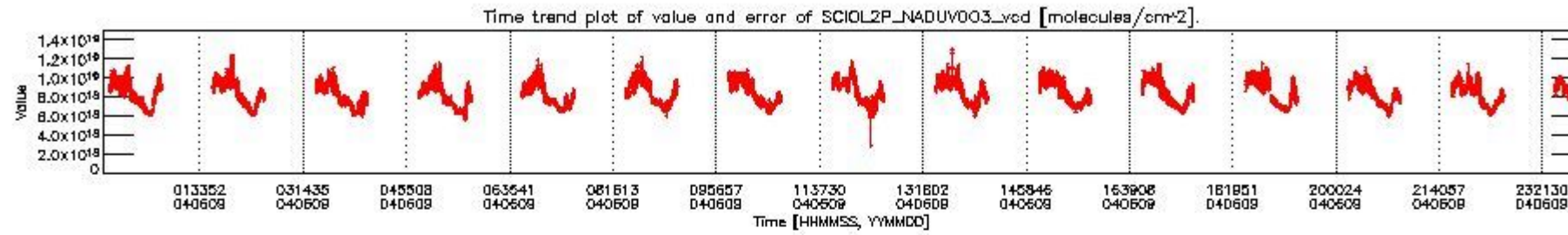
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

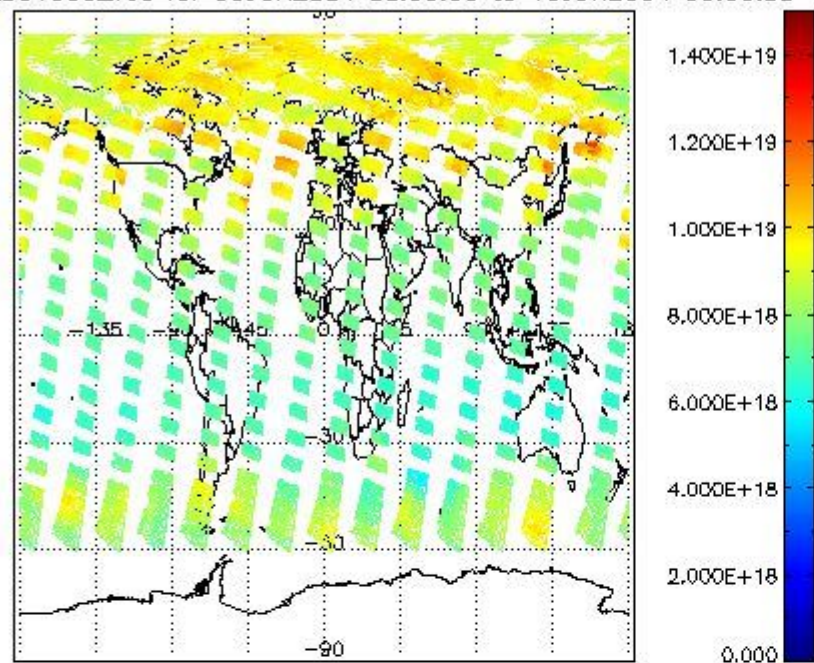
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

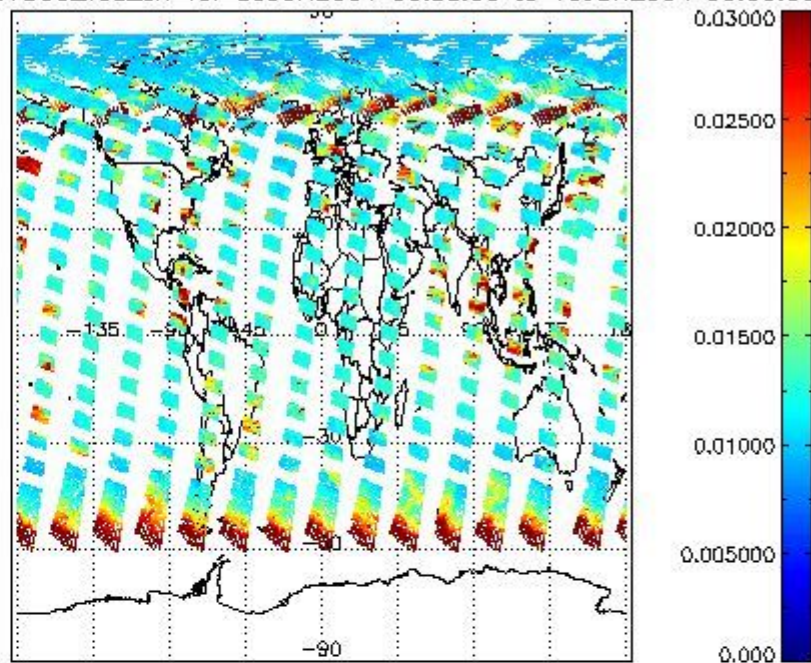
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



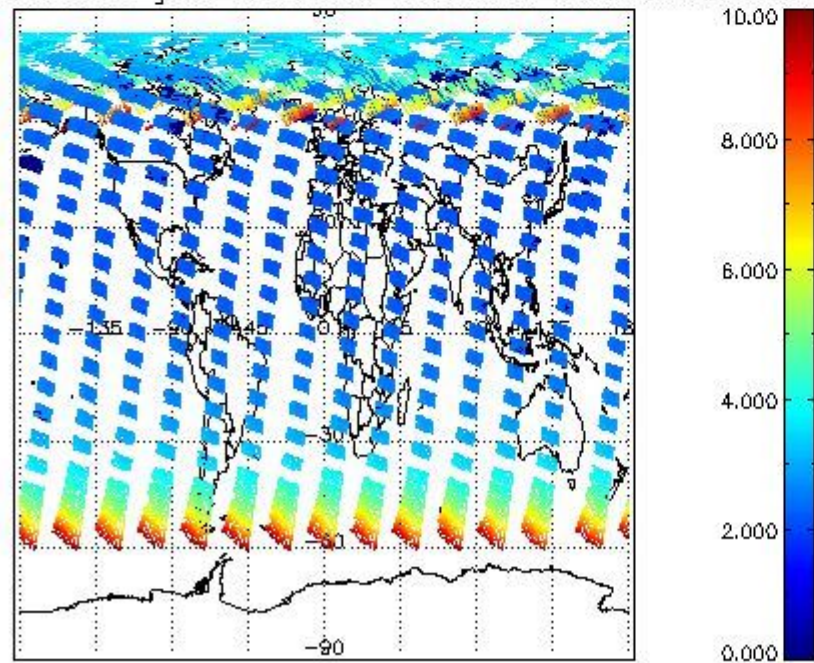
SCIOL2P_NADUV003_vcd for 09JUN2004 00:00:00 to 10JUN2004 00:00:00



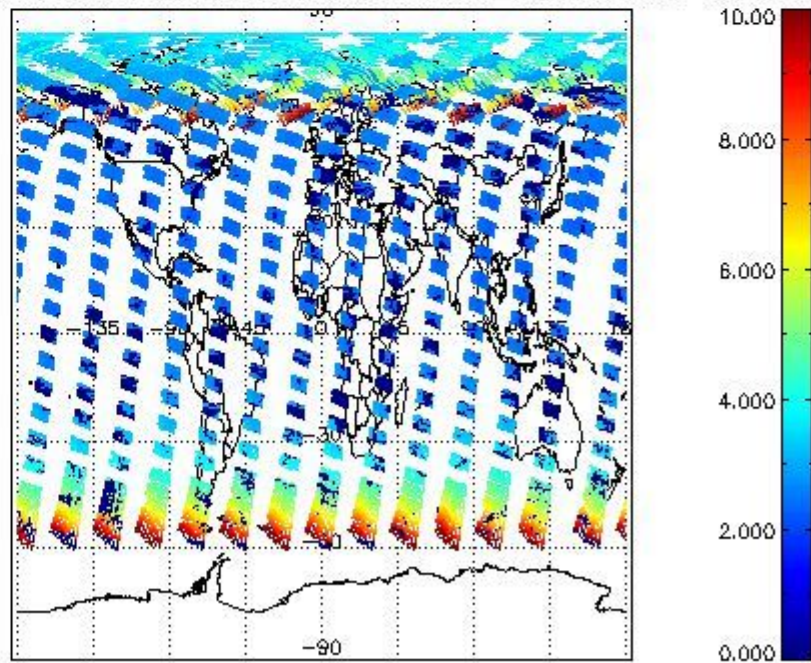
SCIOL2P_NADUV003_vcd_err for 09JUN2004 00:00:00 to 10JUN2004 00:00:00

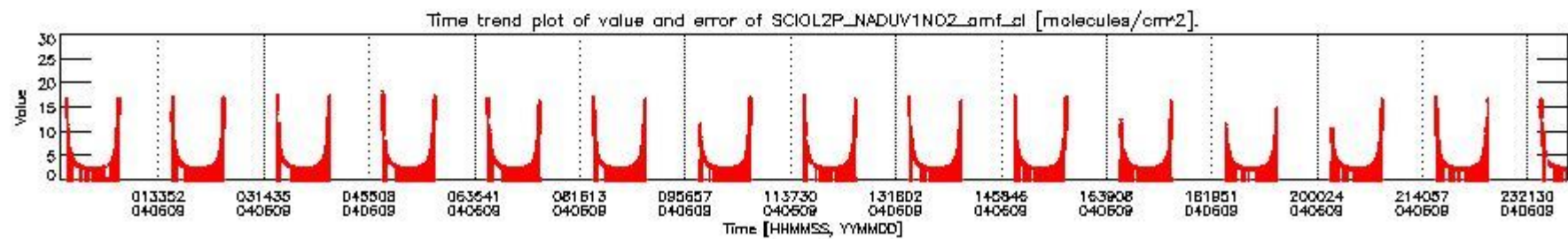
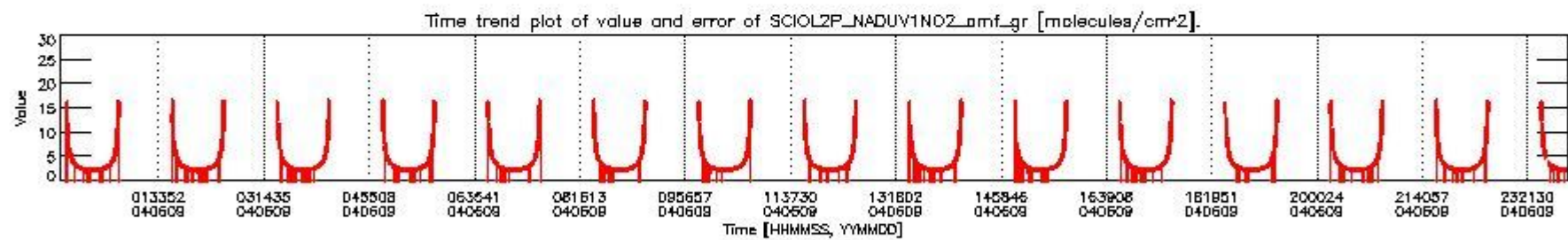
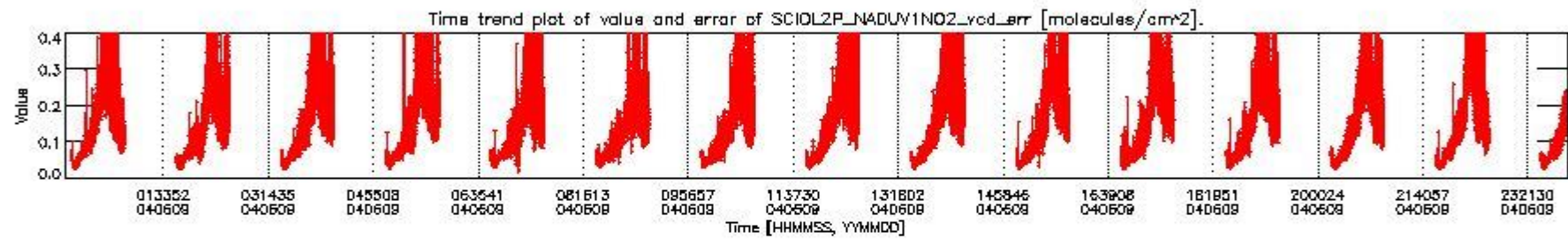
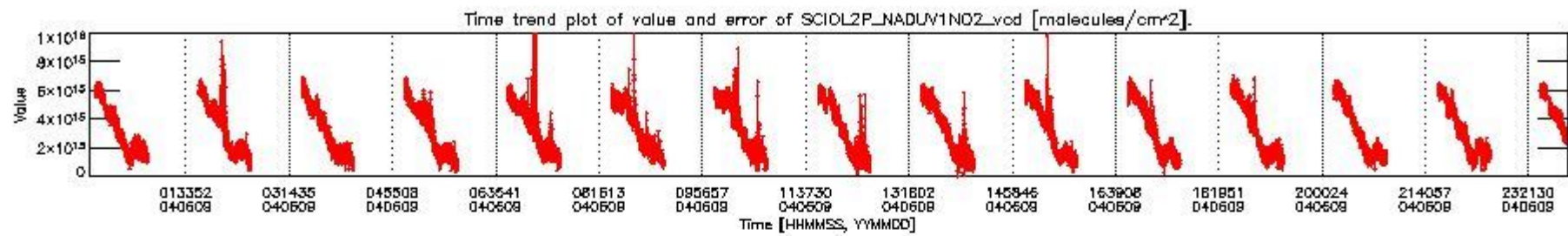


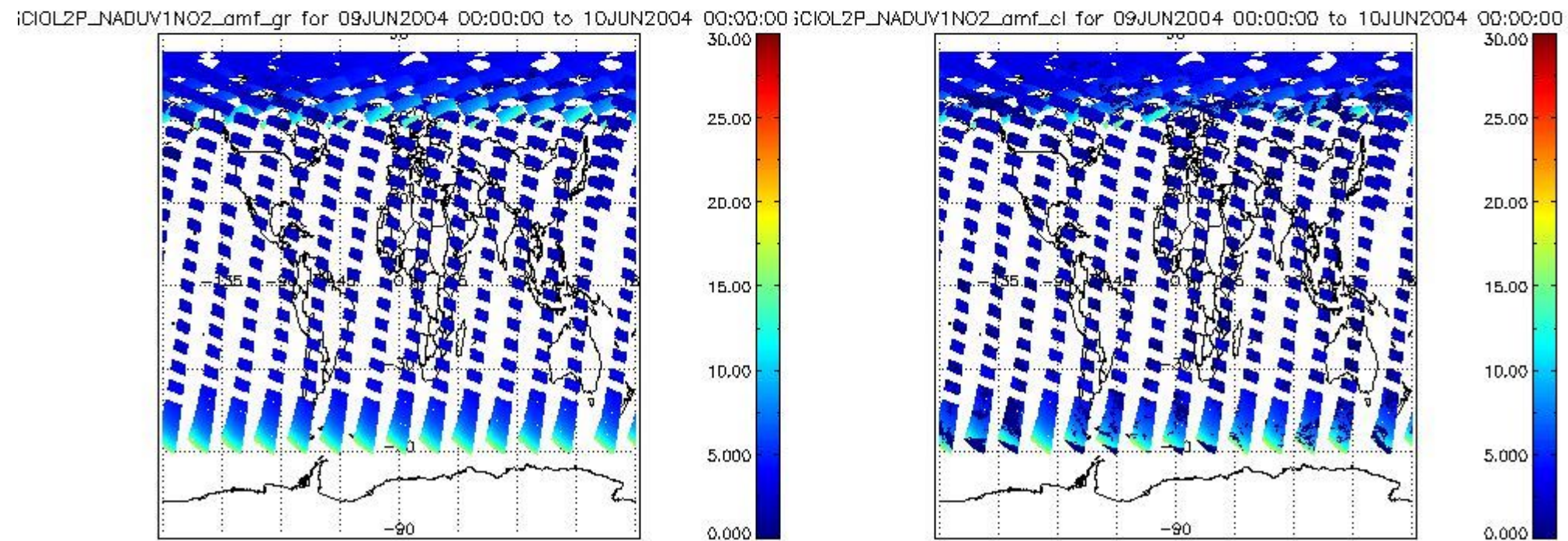
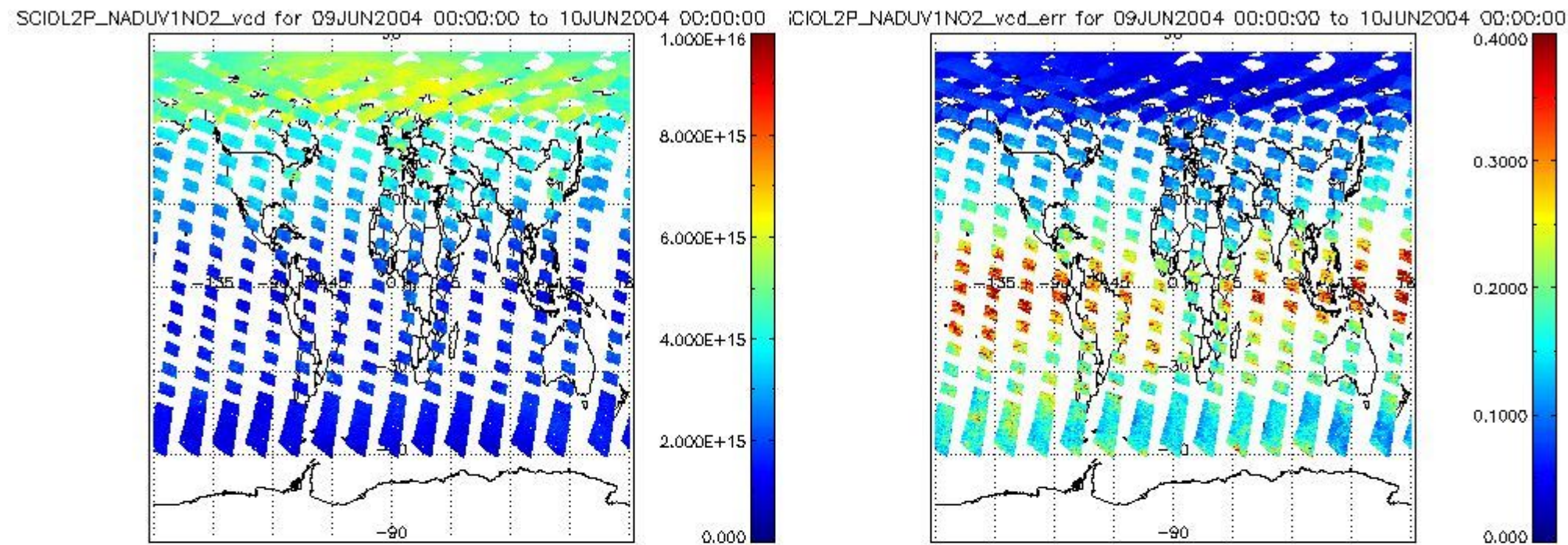
SCIOL2P_NADUV003_amf_gr for 09JUN2004 00:00:00 to 10JUN2004 00:00:00



SCIOL2P_NADUV003_amf_cl for 09JUN2004 00:00:00 to 10JUN2004 00:00:00







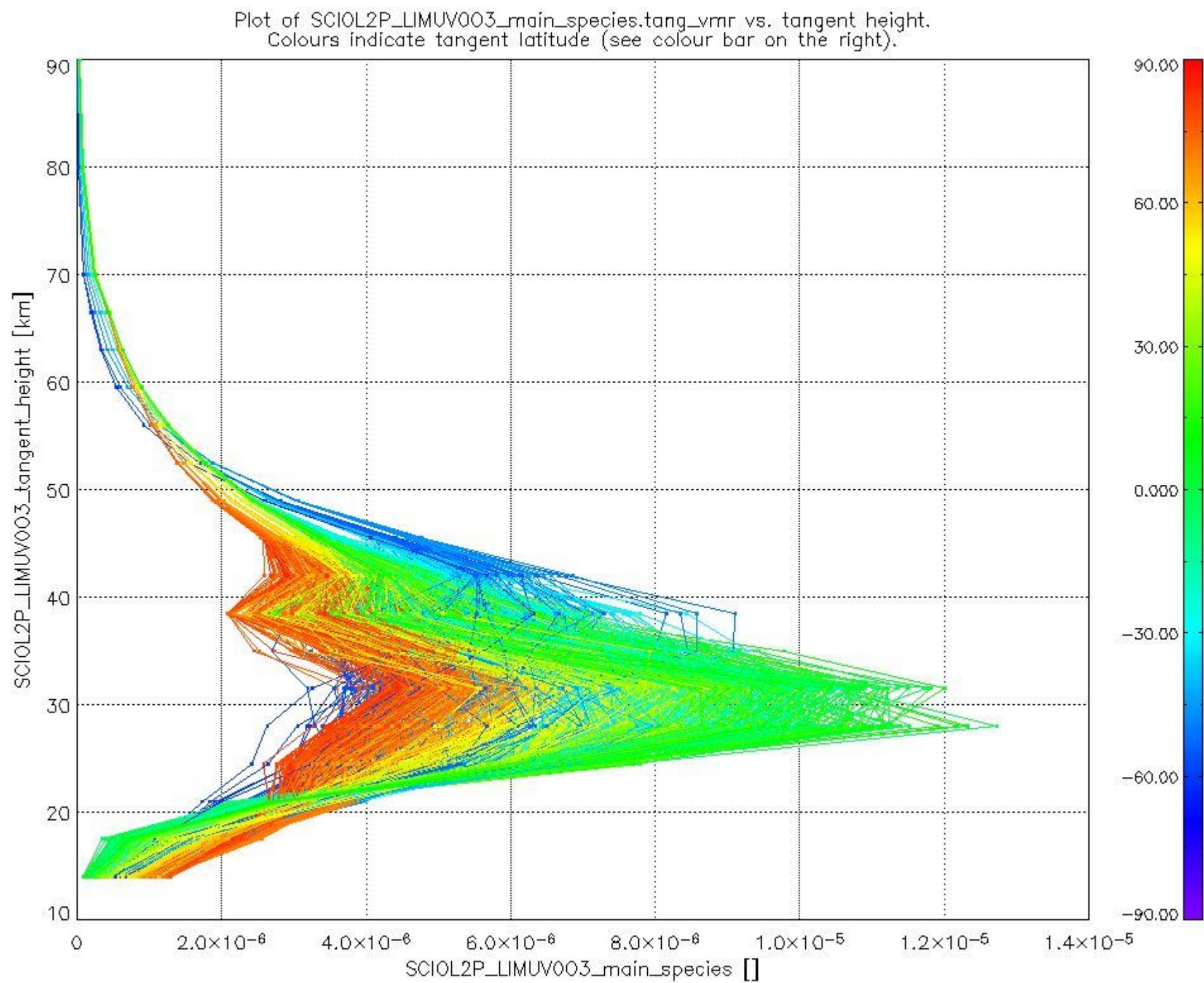
2.2.3 Limb

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

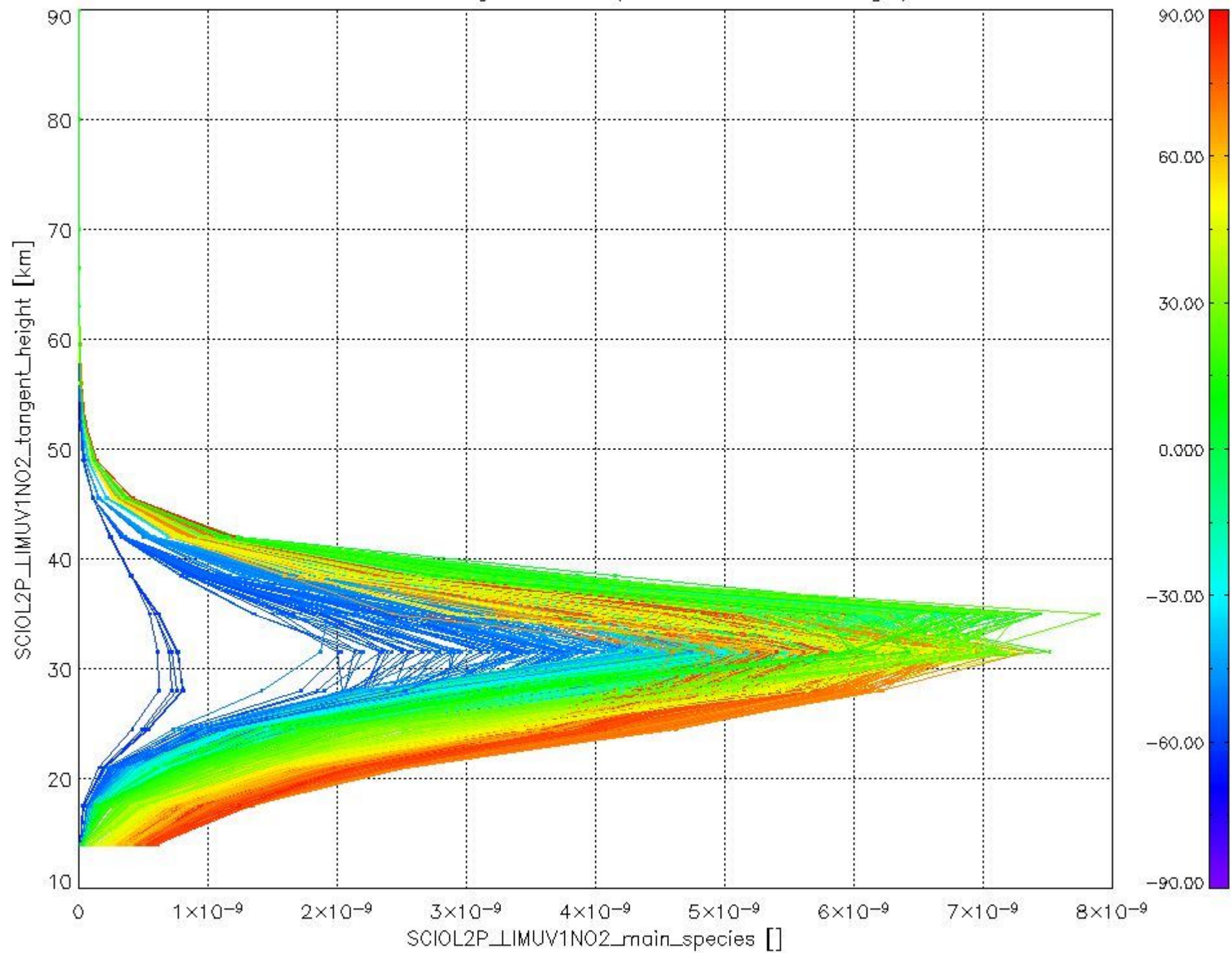
The following data items are currently included into this section:

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.



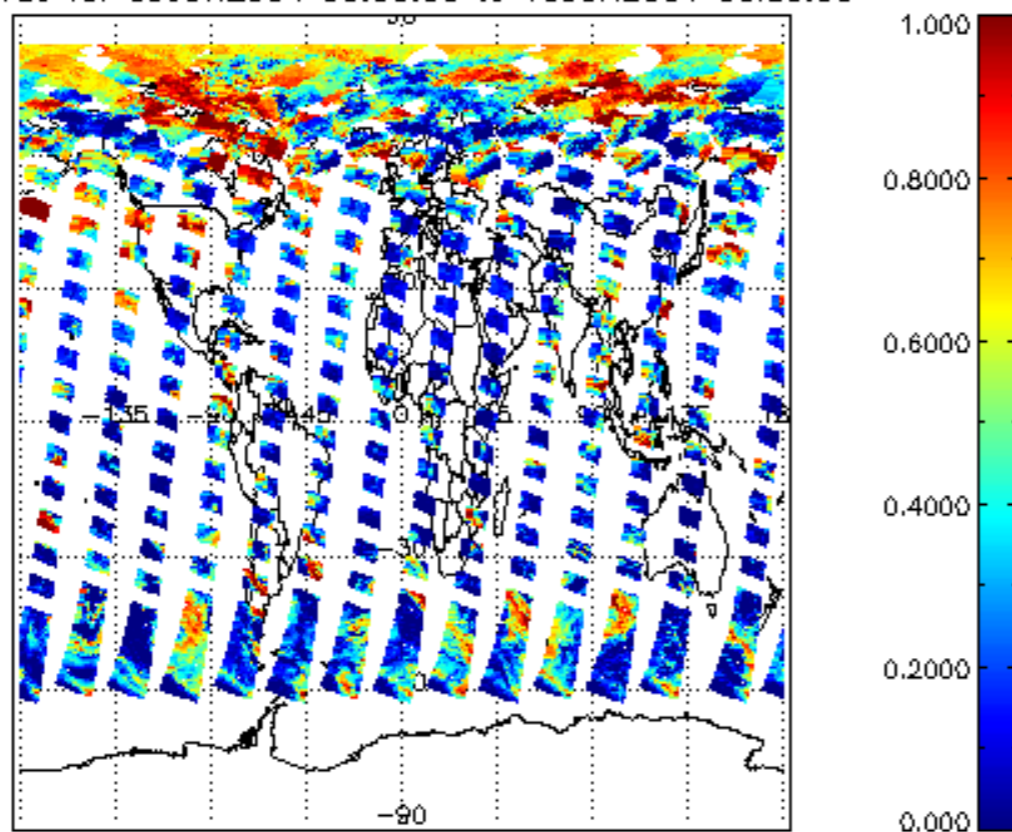
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



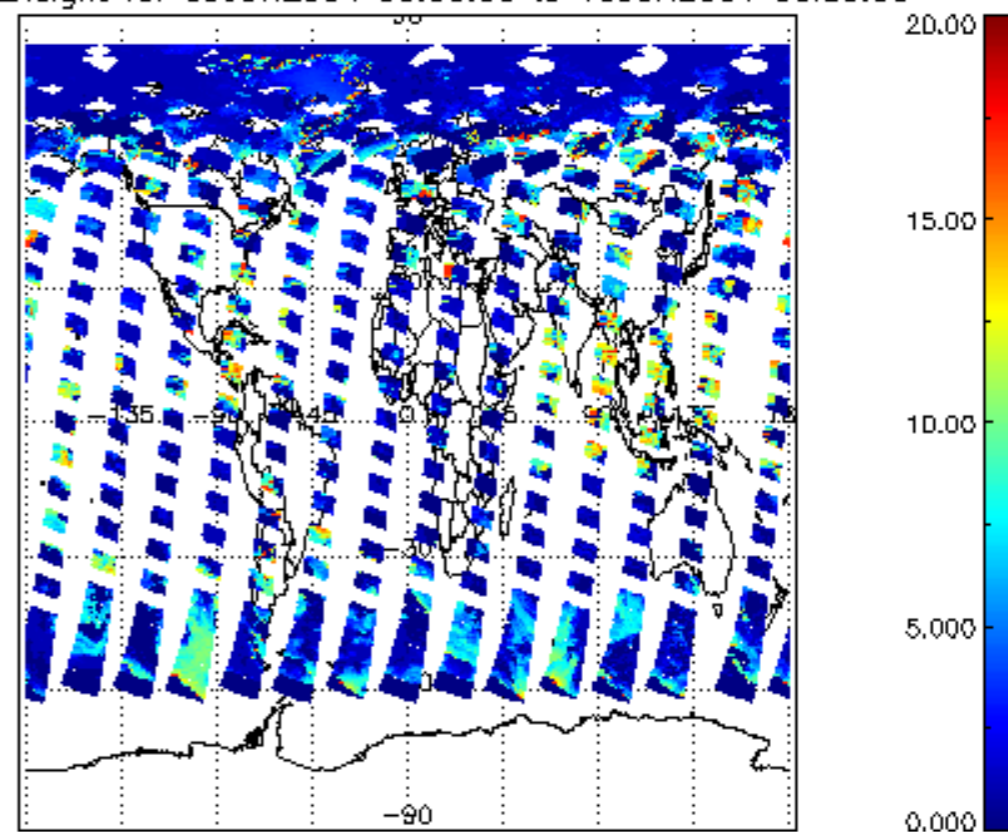
2.3 ADF monitoring

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

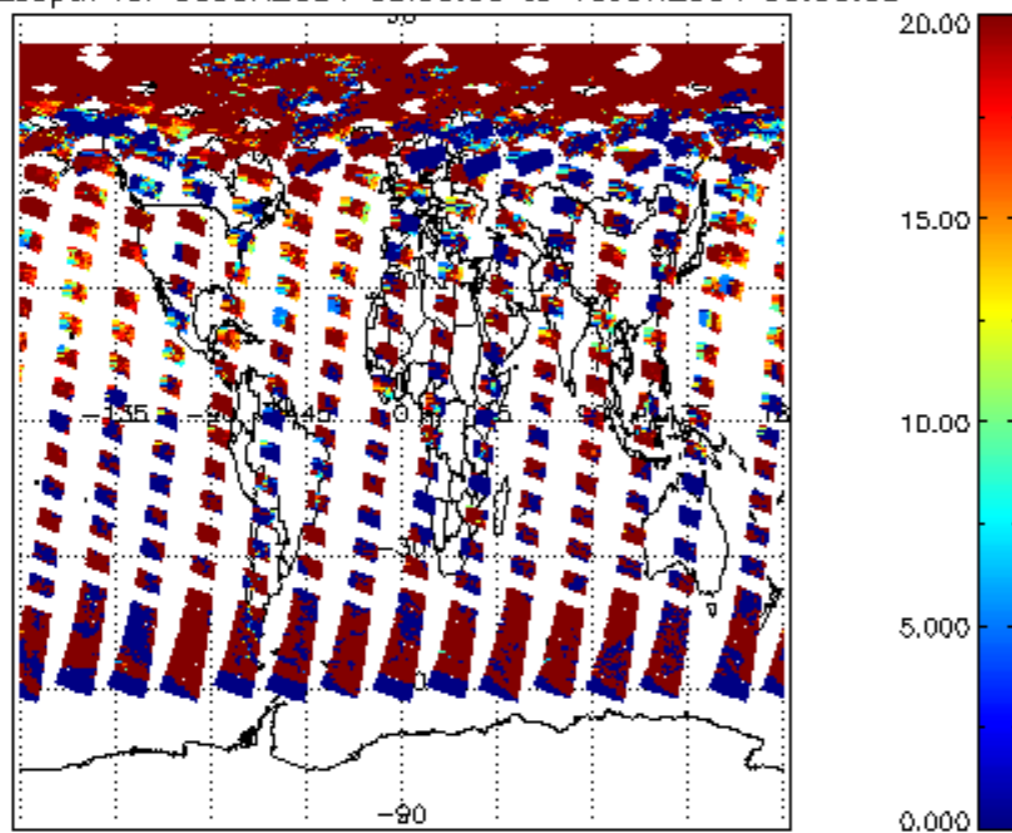
cl_frac for 09JUN2004 00:00:00 to 10JUN2004 00:00:00



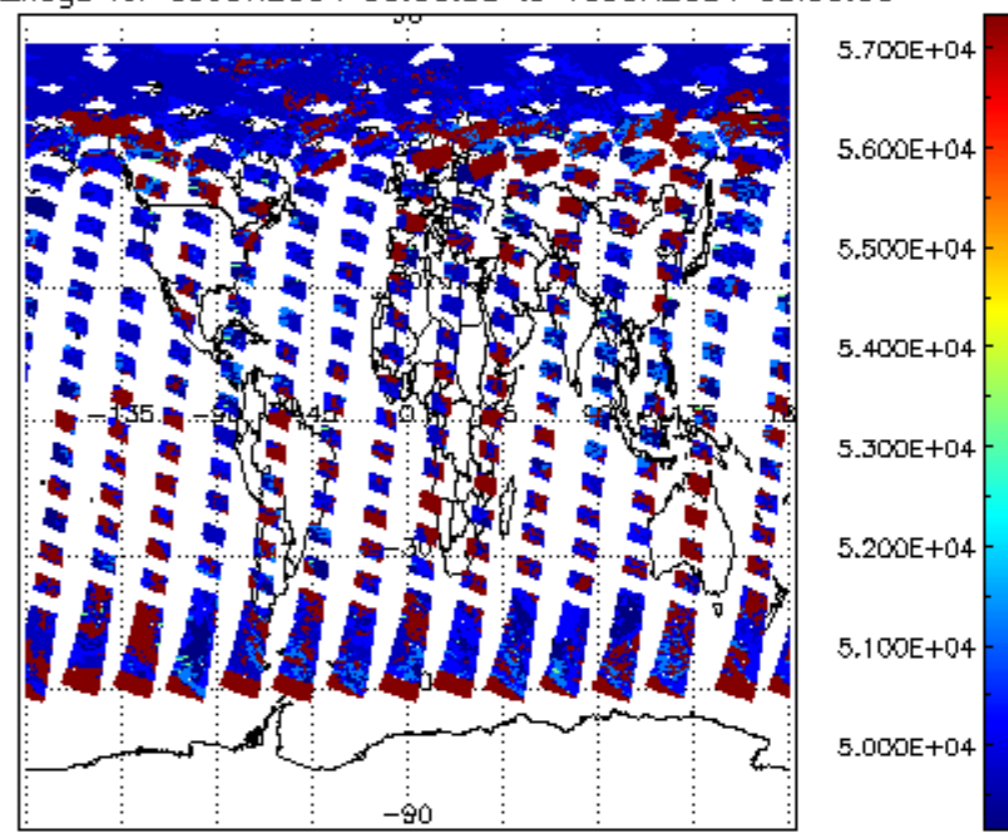
cl_top_height for 09JUN2004 00:00:00 to 10JUN2004 00:00:00

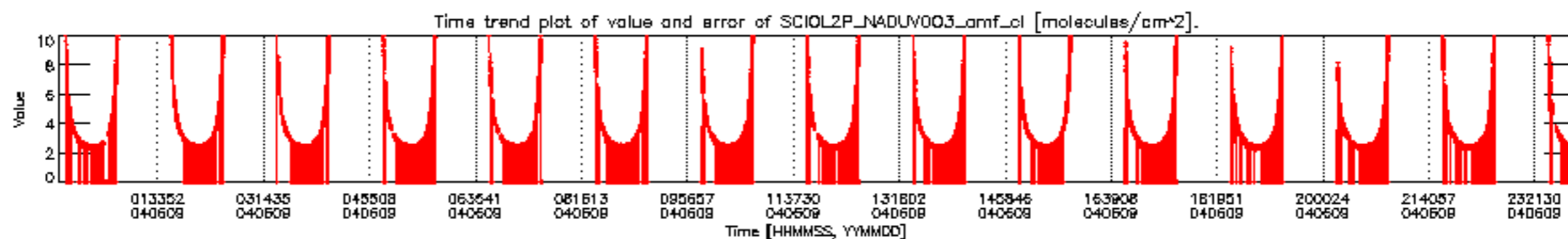
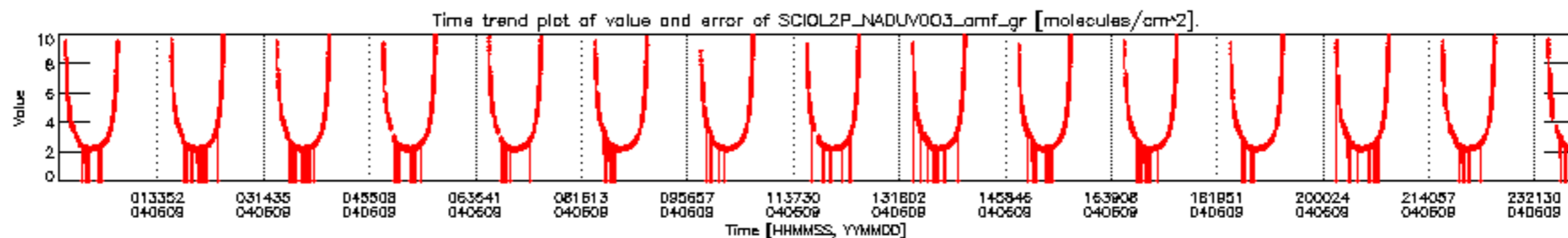
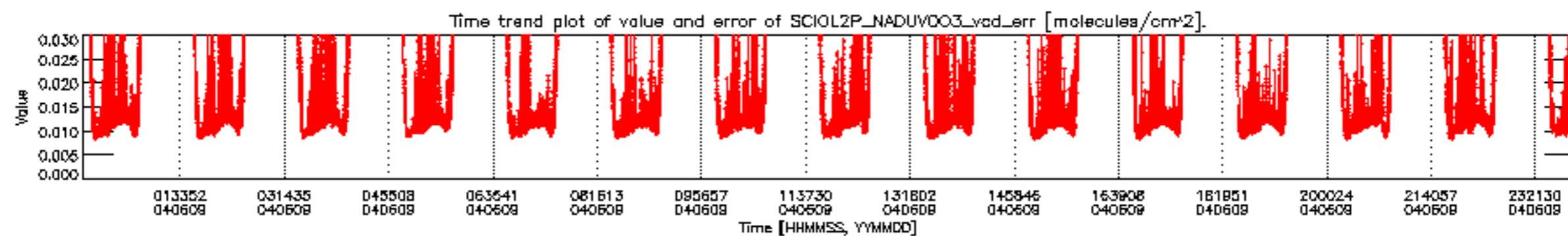
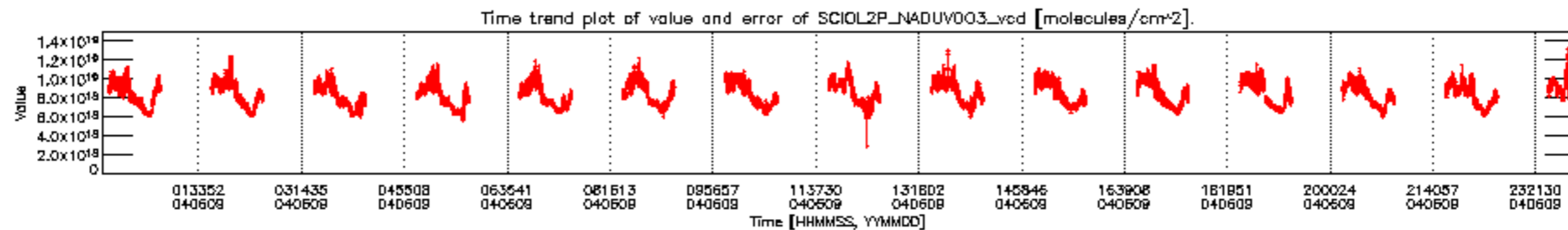


cl_opt_depth for 09JUN2004 00:00:00 to 10JUN2004 00:00:00

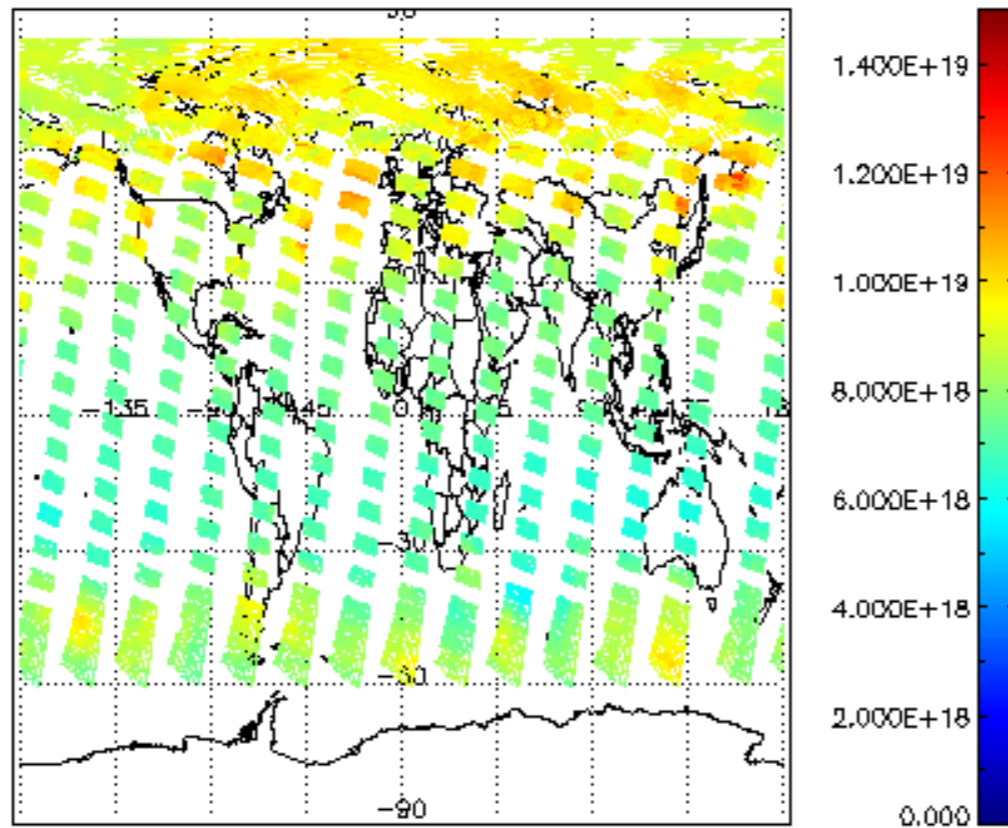


cloud_flags for 09JUN2004 00:00:00 to 10JUN2004 00:00:00

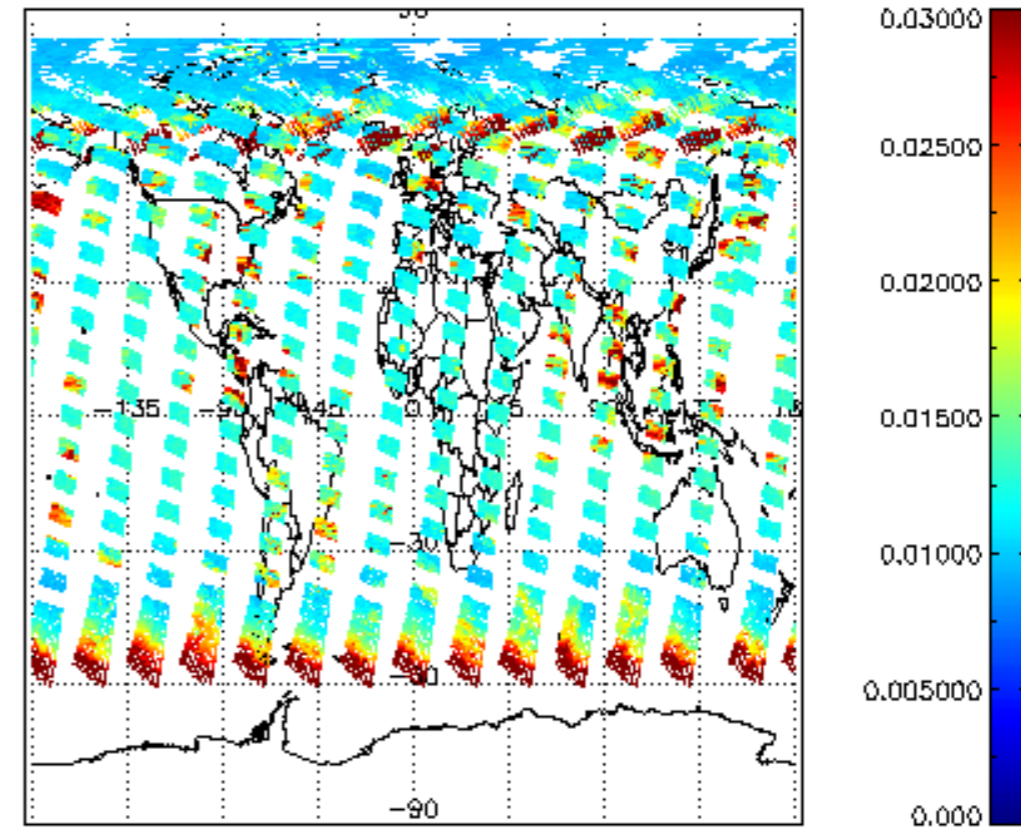




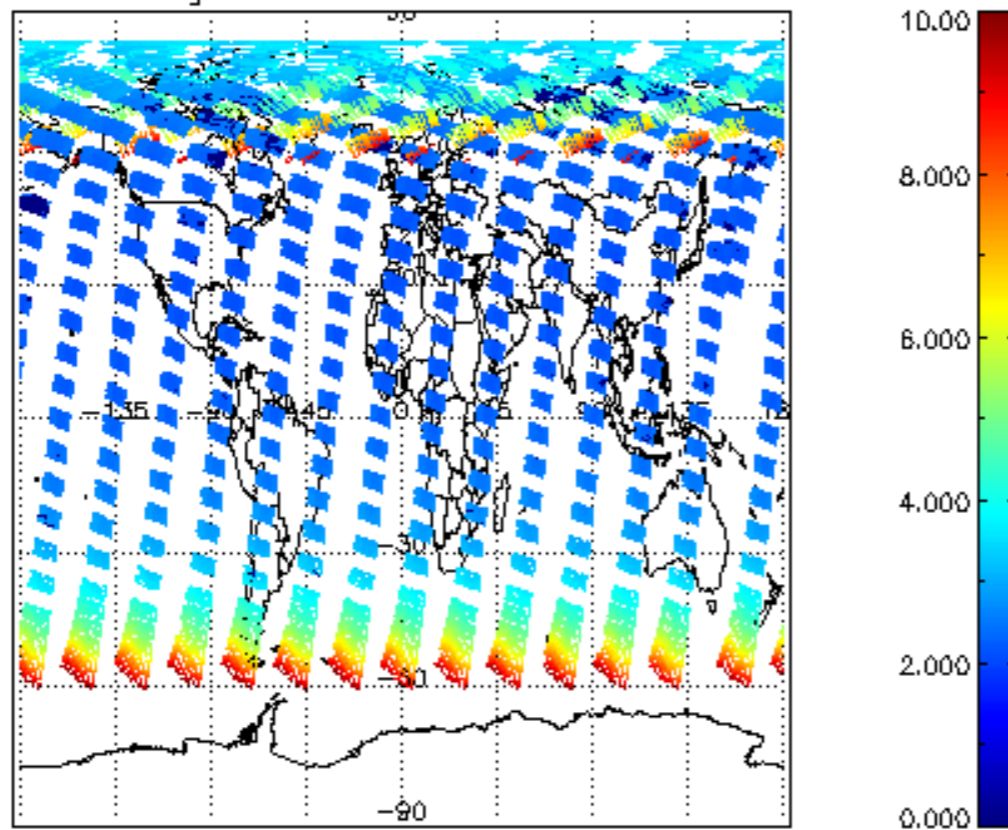
SCIOL2P_NADUV003_vcd for 09JUN2004 00:00:00 to 10JUN2004 00:00:00



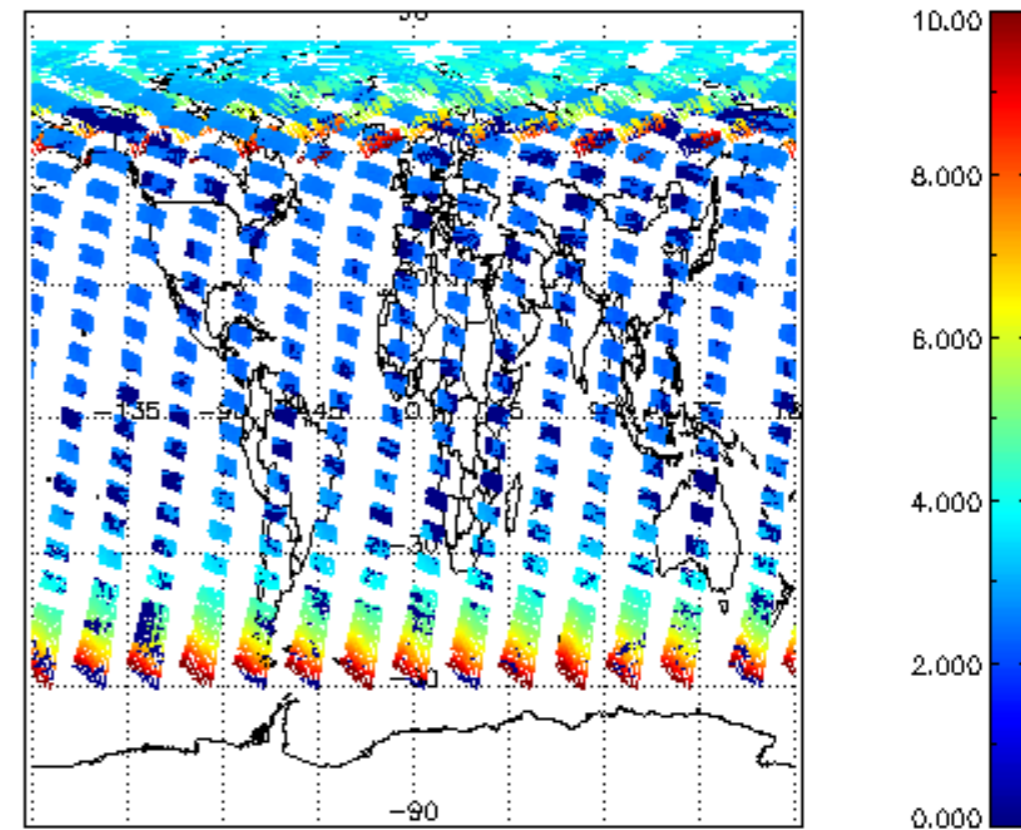
SCIOL2P_NADUV003_vcd_err for 09JUN2004 00:00:00 to 10JUN2004 00:00:00

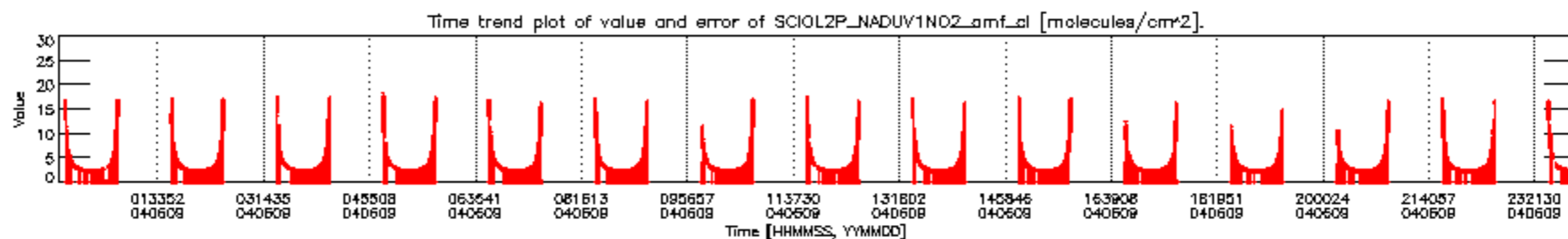
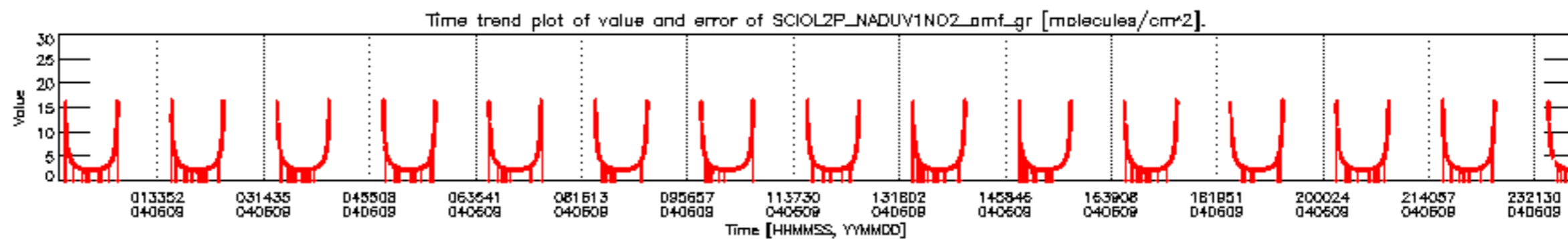
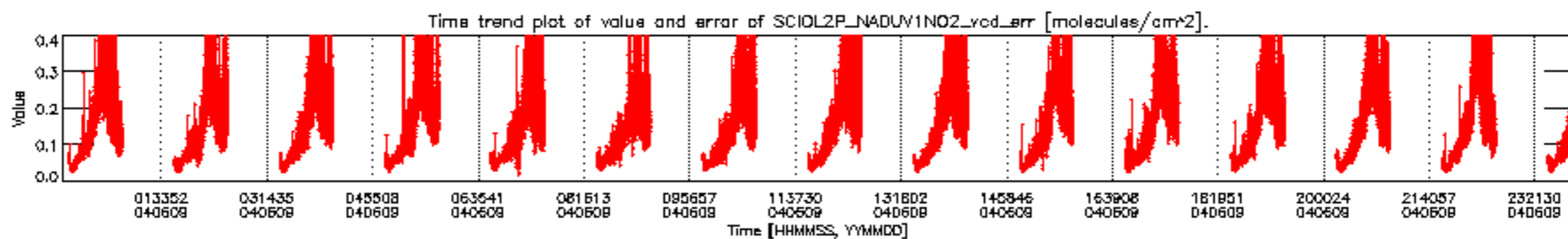
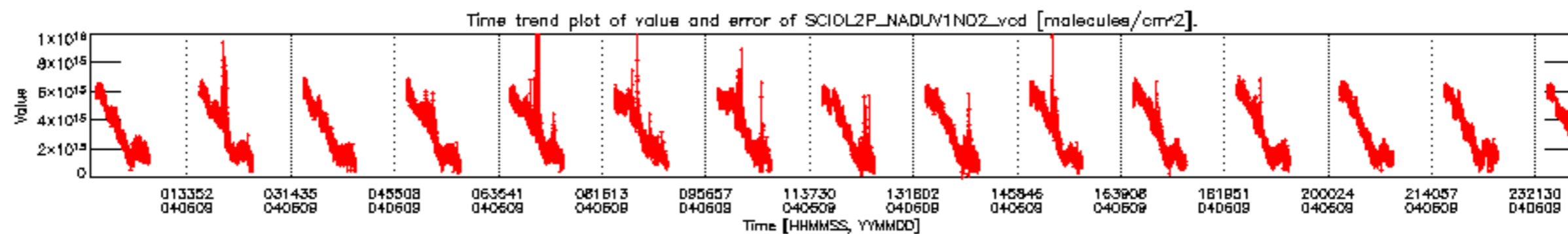


SCIOL2P_NADUV003_amf_gr for 09JUN2004 00:00:00 to 10JUN2004 00:00:00

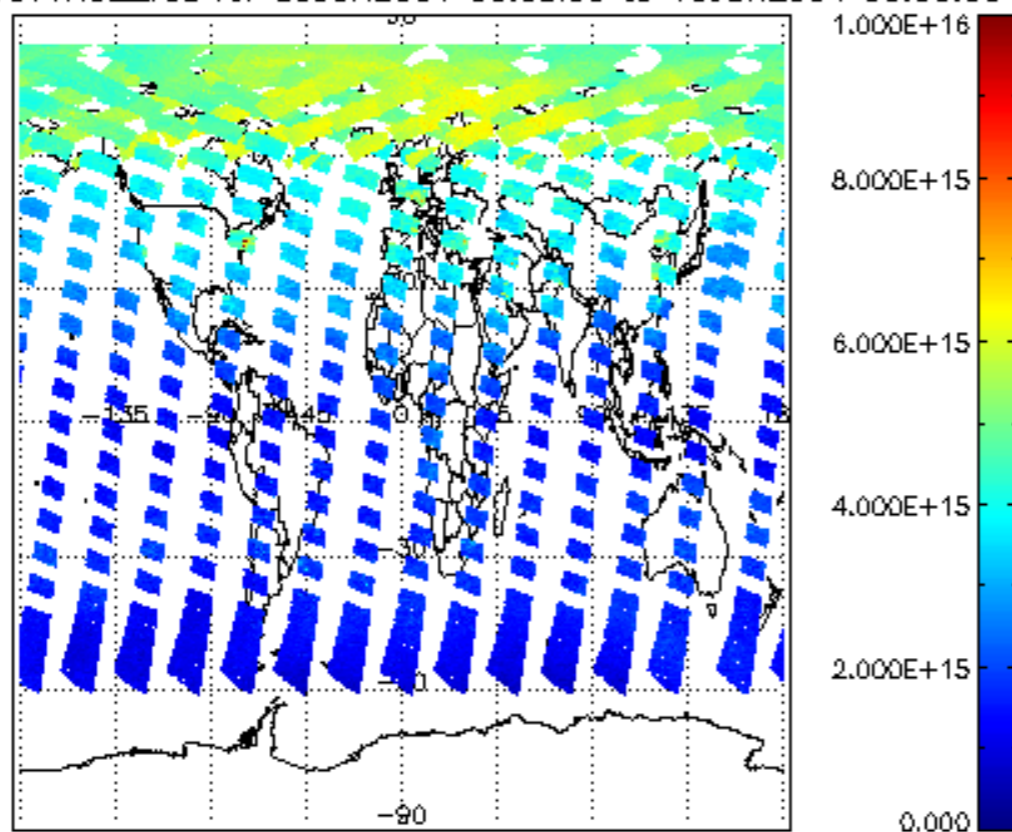


SCIOL2P_NADUV003_amf_cl for 09JUN2004 00:00:00 to 10JUN2004 00:00:00

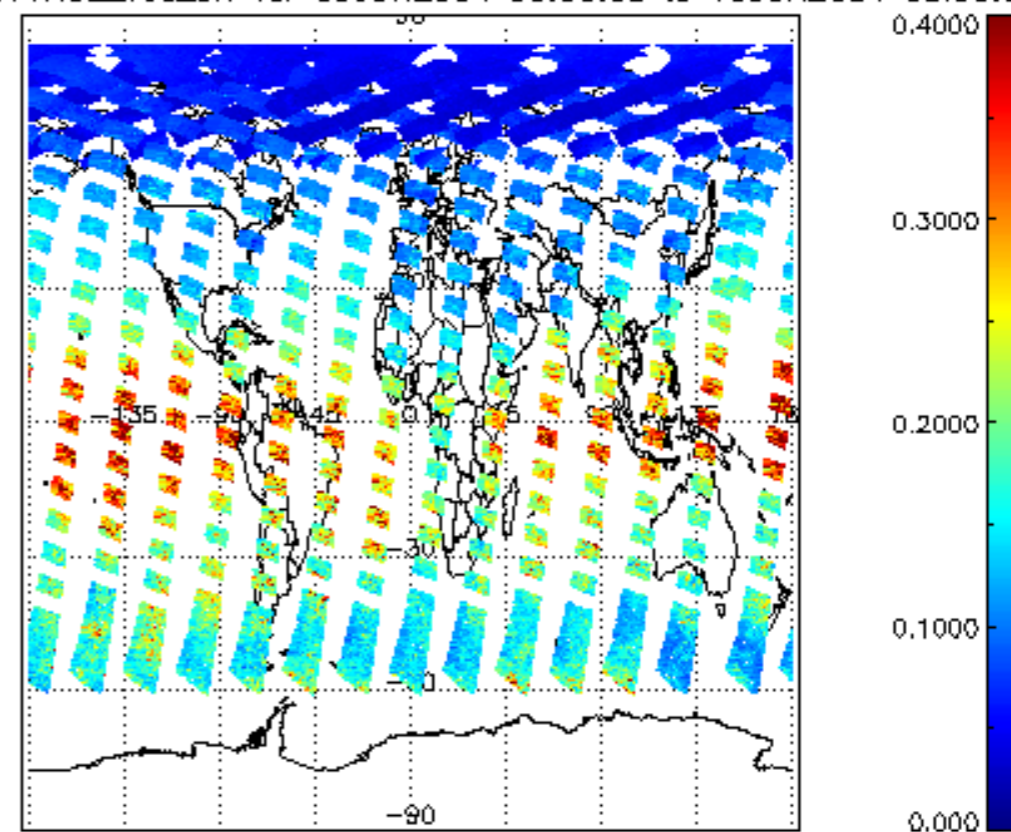




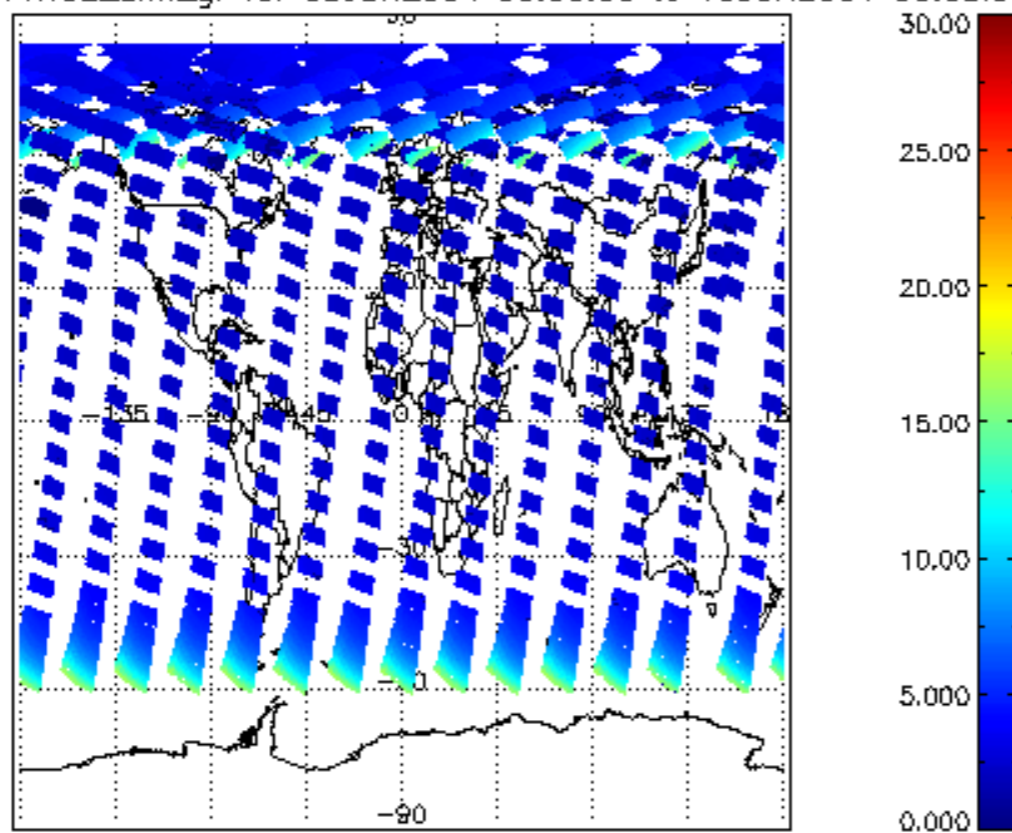
SCIOL2P_NADUV1NO2_vcd for 09JUN2004 00:00:00 to 10JUN2004 00:00:00



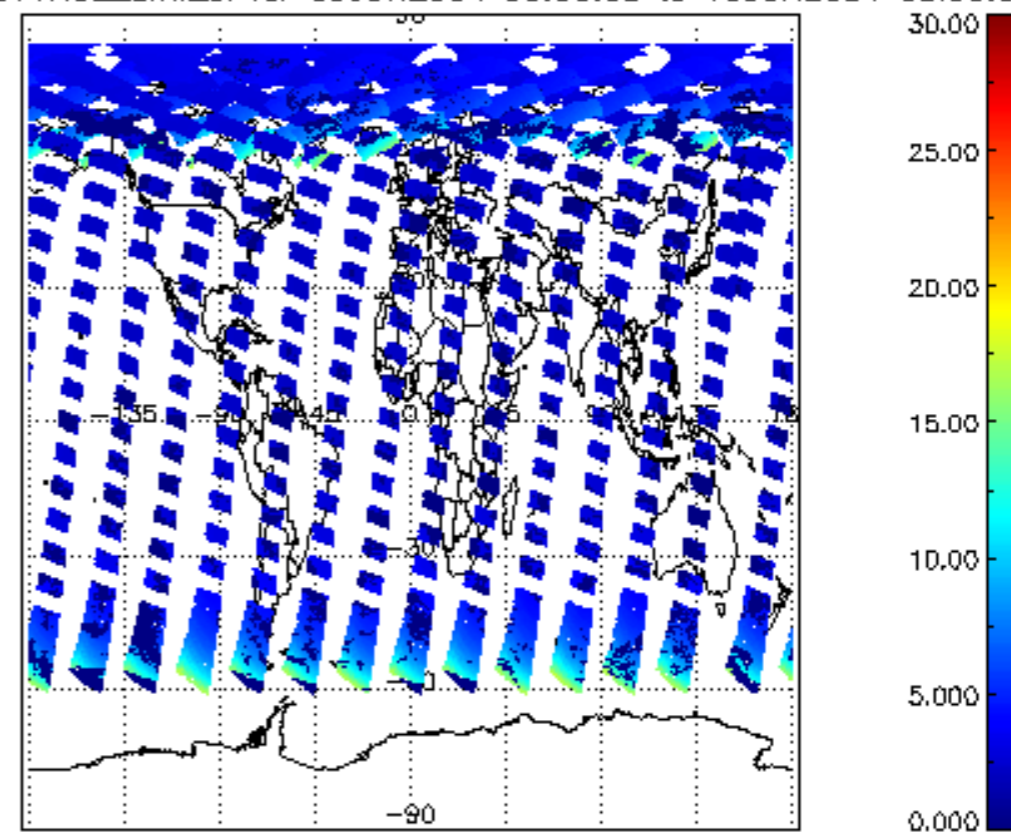
iCIOL2P_NADUV1NO2_vcd_err for 09JUN2004 00:00:00 to 10JUN2004 00:00:00



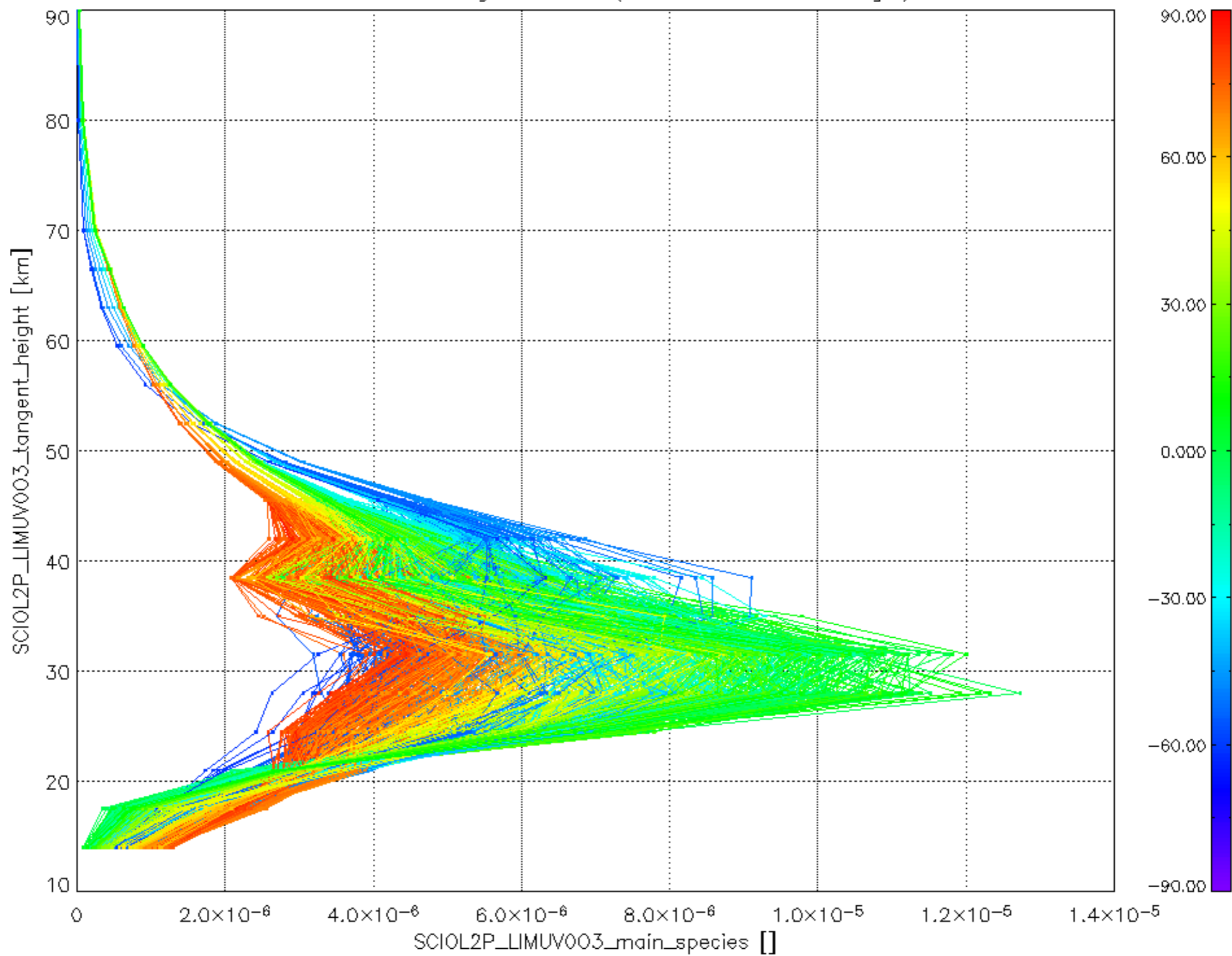
iCIOL2P_NADUV1NO2_amf_gr for 09JUN2004 00:00:00 to 10JUN2004 00:00:00



iCIOL2P_NADUV1NO2_amf_cl for 09JUN2004 00:00:00 to 10JUN2004 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).

