

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 15:46:55
Data source version	SCIA-OL/3.01-R
Processing scope for products	11MAY2004 00:00:00 to 12MAY2004 00:00:00
Start time of first product within scope	10MAY2004 22:33:27
Stop time of last product within scope	12MAY2004 00:37:15
Total number of level 2 products	16
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__2PRDPA20040510_223327_000033492026_00402_11478_7825.N1	10MAY2004 22:33:27	10MAY2004 23:29:16	0	GOOD
1	SCI_OL__2PRDPA20040511_001402_000032932026_00403_11479_7725.N1	11MAY2004 00:14:02	11MAY2004 01:08:56	0	GOOD
2	SCI_OL__2PRDPA20040511_015438_000033492026_00404_11480_7774.N1	11MAY2004 01:54:38	11MAY2004 02:50:27	0	GOOD
3	SCI_OL__2PRDPA20040511_033514_000032932026_00405_11481_7735.N1	11MAY2004 03:35:14	11MAY2004 04:30:07	0	GOOD
4	SCI_OL__2PRDPA20040511_051550_000033492026_00406_11482_7713.N1	11MAY2004 05:15:50	11MAY2004 06:11:39	0	GOOD
5	SCI_OL__2PRDPA20040511_065625_000032932026_00407_11483_7729.N1	11MAY2004 06:56:25	11MAY2004 07:51:19	0	GOOD
6	SCI_OL__2PRDPA20040511_083701_000033492026_00408_11484_7785.N1	11MAY2004 08:37:01	11MAY2004 09:32:50	0	GOOD
7	SCI_OL__2PRDPA20040511_101737_000032932026_00409_11485_7717.N1	11MAY2004 10:17:37	11MAY2004 11:12:30	0	GOOD
8	SCI_OL__2PRDPA20040511_115812_000033492026_00410_11486_7756.N1	11MAY2004 11:58:12	11MAY2004 12:54:01	0	GOOD
9	SCI_OL__2PRDPA20040511_133848_000032932026_00411_11487_7750.N1	11MAY2004 13:38:48	11MAY2004 14:33:41	0	GOOD
10	SCI_OL__2PRDPA20040511_151923_000033492026_00412_11488_7815.N1	11MAY2004 15:19:23	11MAY2004 16:15:13	0	GOOD
11	SCI_OL__2PRDPA20040511_165959_000032932026_00413_11489_7708.N1	11MAY2004 16:59:59	11MAY2004 17:54:53	0	GOOD
12	SCI_OL__2PRDPA20040511_184034_000033522026_00414_11490_7810.N1	11MAY2004 18:40:34	11MAY2004 19:36:27	0	GOOD
13	SCI_OL__2PRDPA20040511_202031_000033492026_00415_11491_7777.N1	11MAY2004 20:20:31	11MAY2004 21:16:20	0	GOOD
14	SCI_OL__2PRDPA20040511_220146_000033492026_00416_11492_7739.N1	11MAY2004 22:01:46	11MAY2004 22:57:36	0	GOOD
15	SCI_OL__2PRDPA20040511_234222_000032932026_00417_11493_7711.N1	11MAY2004 23:42:22	12MAY2004 00:37:15	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: 113900

Total number of cloud data DSRs with good quality flag (=0): 113900 (100.0 %)

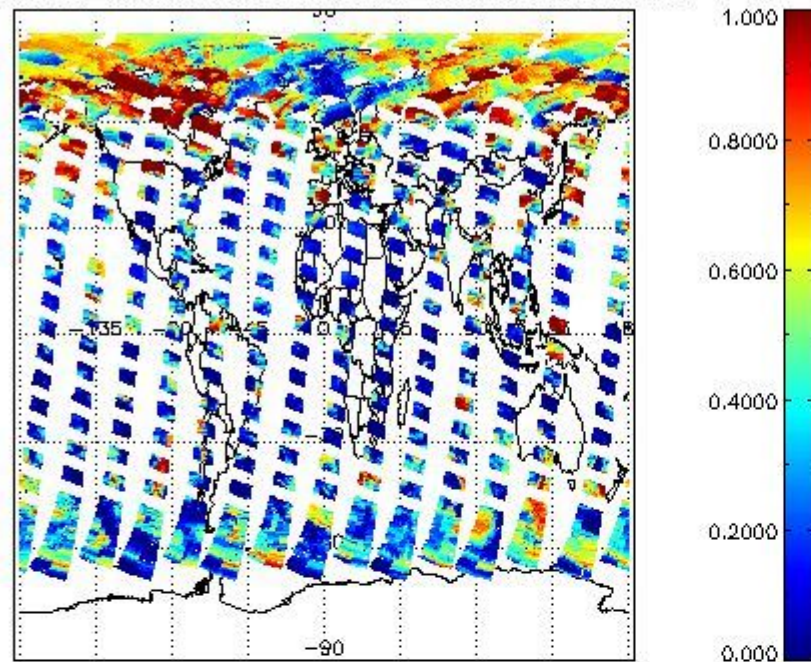
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	113900	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	113900	0.21528	0.25000	0.12500	1.0000	0.085341	s
CL_FRAC	113900	0.41074	0.38893	0.0000	1.0000	0.32004	-
CL_FRAC_ERR	113900	0.0000	0.0000	0.0000	0.0000	0.0000	rel. fraction
PMD_READ	113900	6.8888	8.0000	4.0000	32.000	2.7309	
PMD_READ_CL[0]	113900	0.52259	0.0000	0.0000	16.000	1.7213	-
PMD_READ_CL[1]	113900	1.3140	0.0000	0.0000	32.000	2.7288	-
CL_TOP_HEIGHT	103999	3.0160	1.1900	0.0000	17.000	3.4939	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	103999	58.302	60.753	0.0000	101.00	42.016	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	113900	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	113900	11001000	11000010	11000000	11100000	3114.9	flags
AERO_ABSO_IND	113900	0.81336	0.82380	-4.6592	11.011	1.0871	
AERO_IND_DIAG	113900	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	113900	01100111	11000000	00000000	11000000	24497.	flags

Time and geolocation plots:

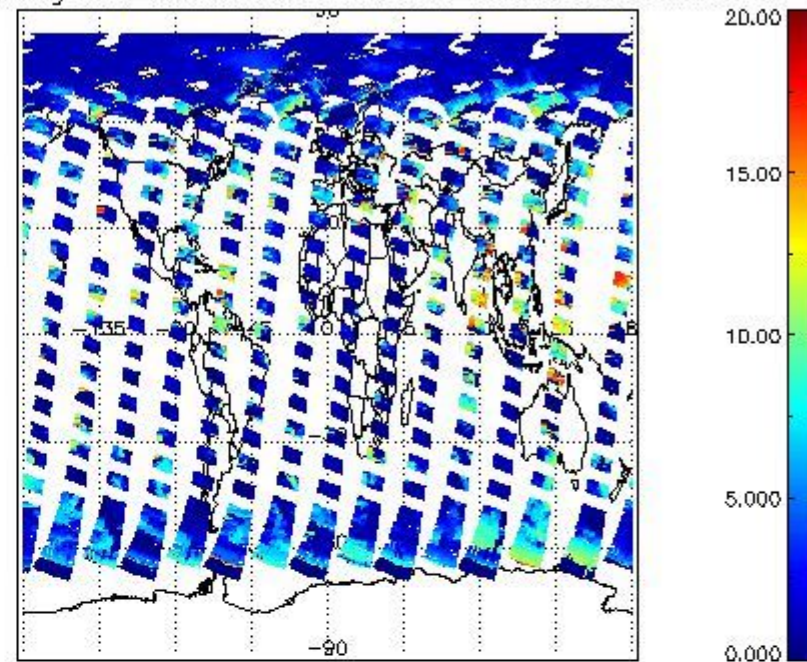
Plots are available for the following parameters:

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

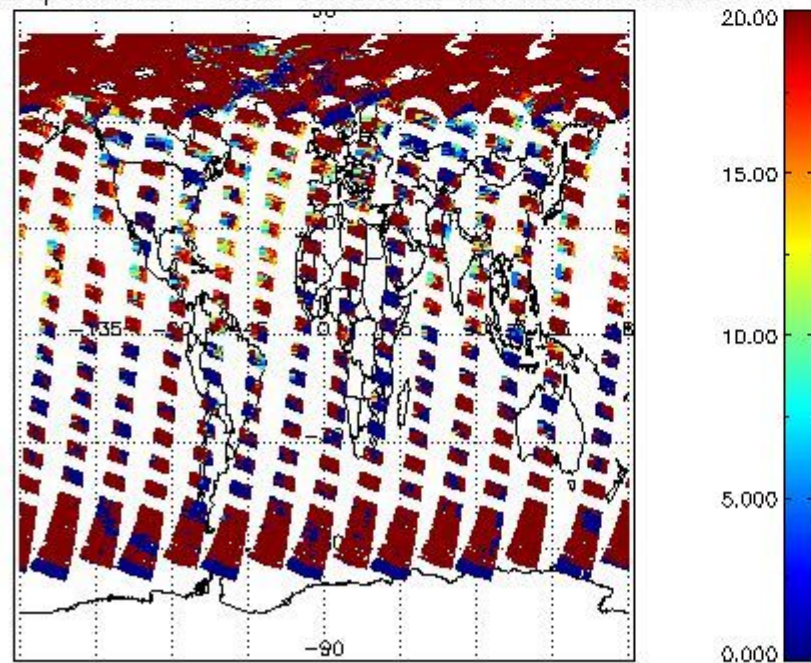
cL_frac for 11MAY2004 00:00:00 to 12MAY2004 00:00:00



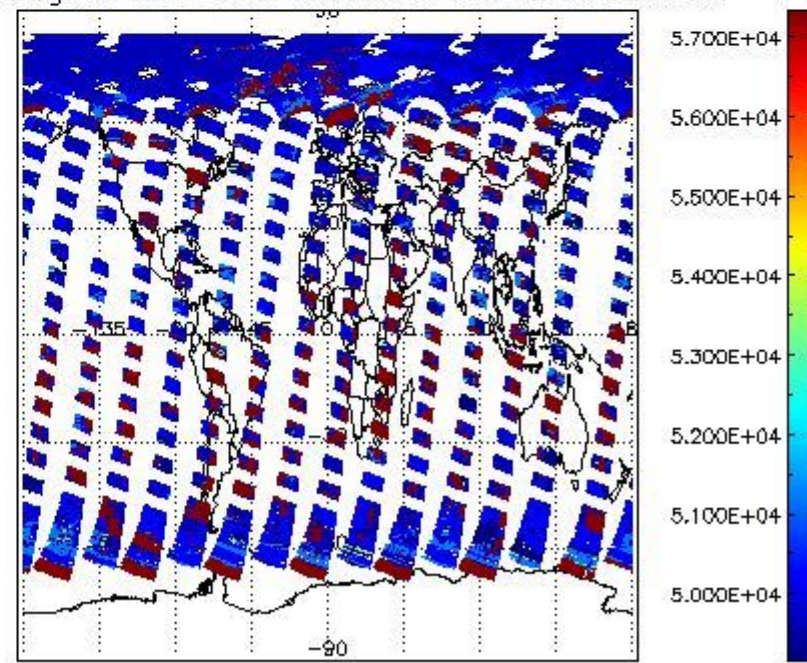
cL_top_height for 11MAY2004 00:00:00 to 12MAY2004 00:00:00



cL_opt_depth for 11MAY2004 00:00:00 to 12MAY2004 00:00:00



cloud_flags for 11MAY2004 00:00:00 to 12MAY2004 00:00:00



2.2.2 Nadir

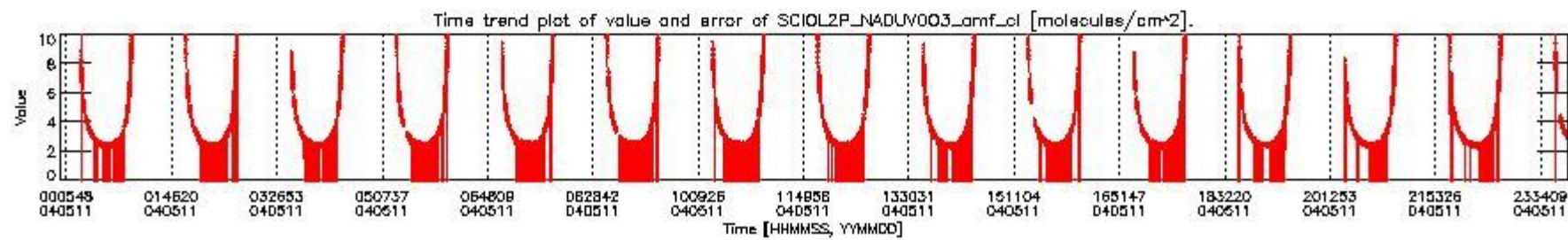
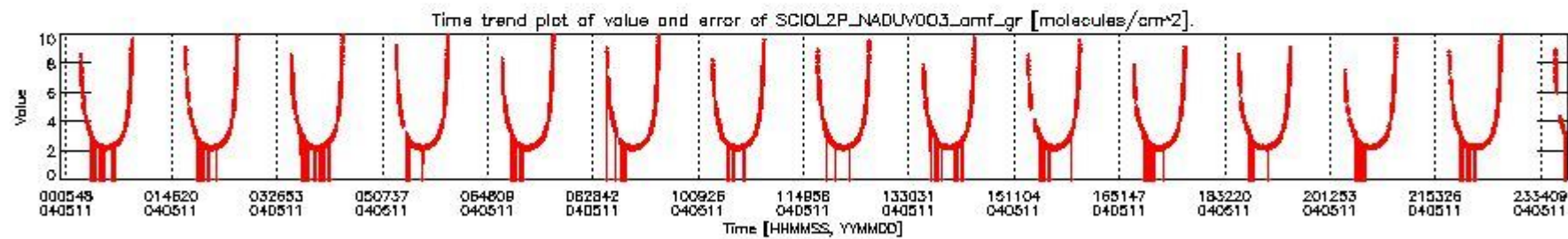
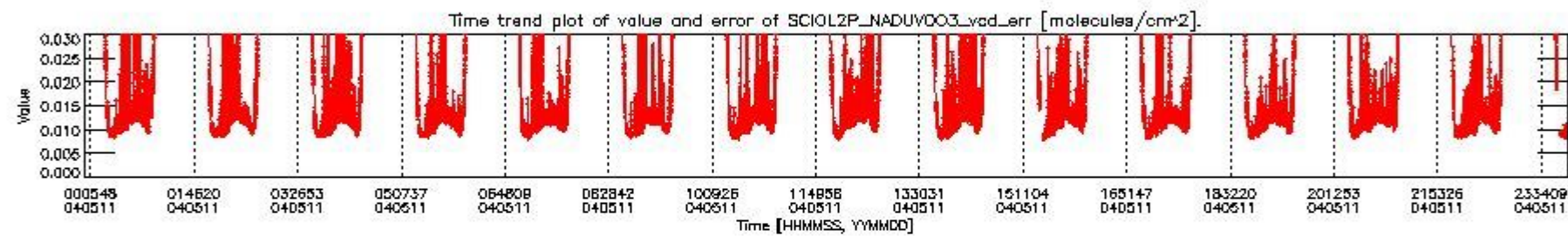
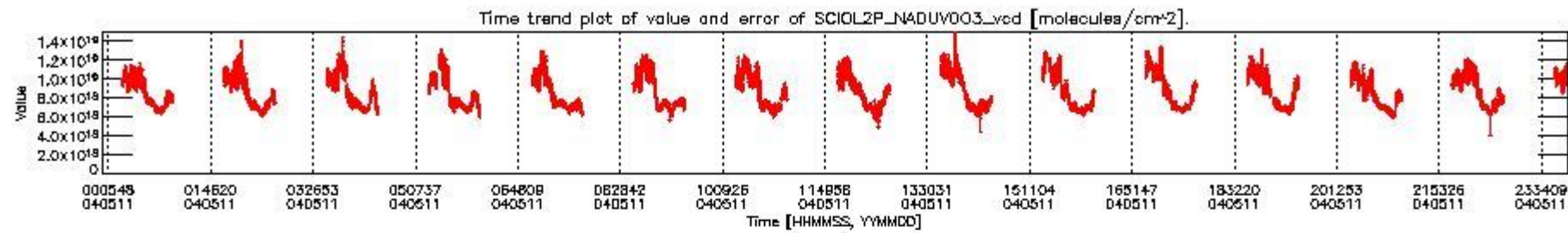
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

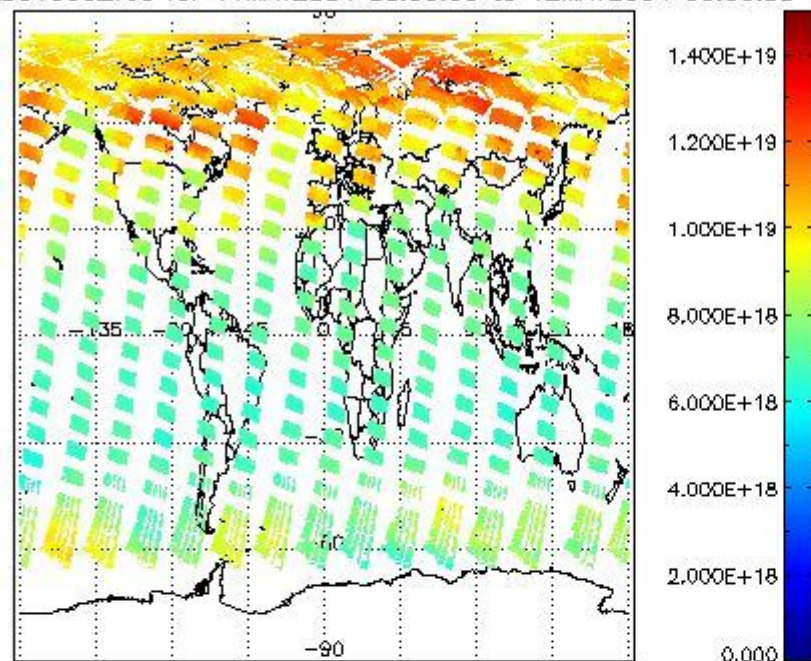
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

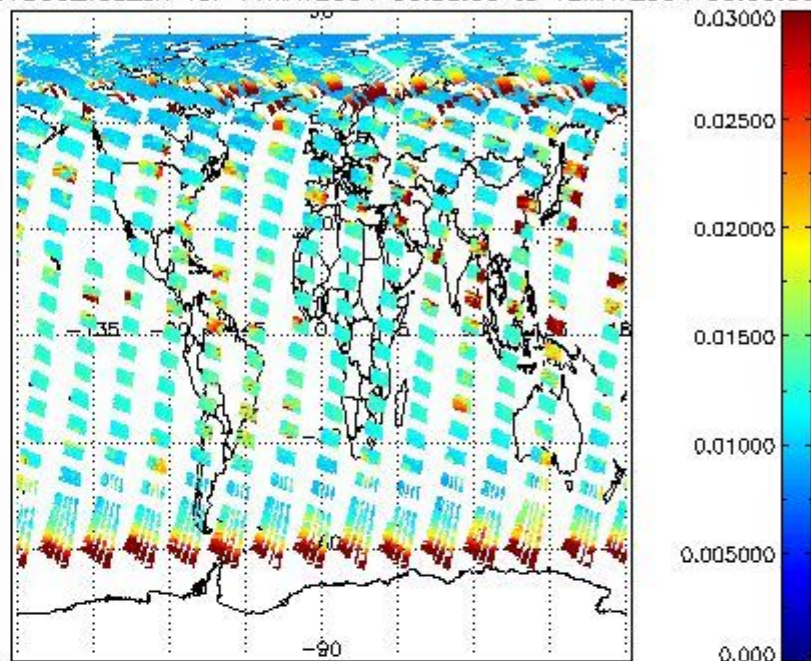
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



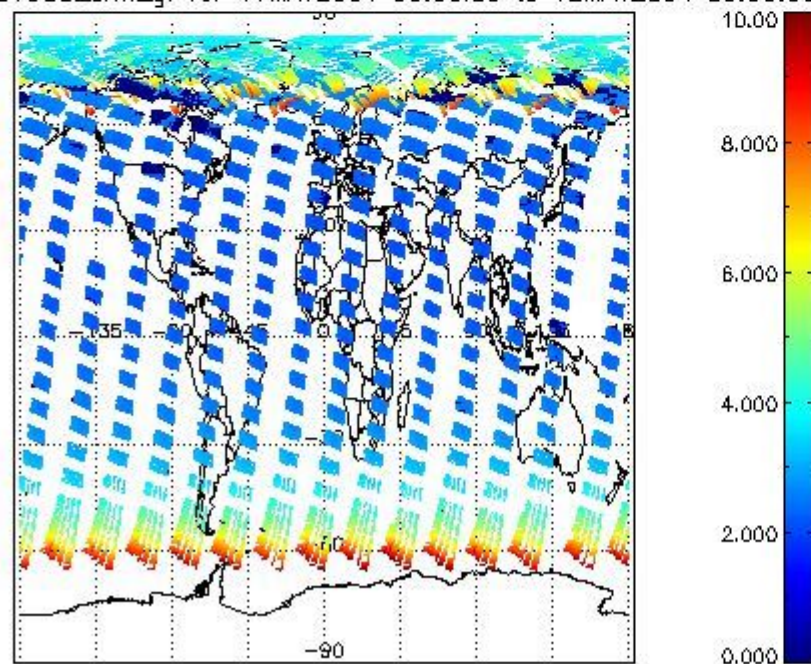
SCIOL2P_NADUV003_vcd for 11MAY2004 00:00:00 to 12MAY2004 00:00:00



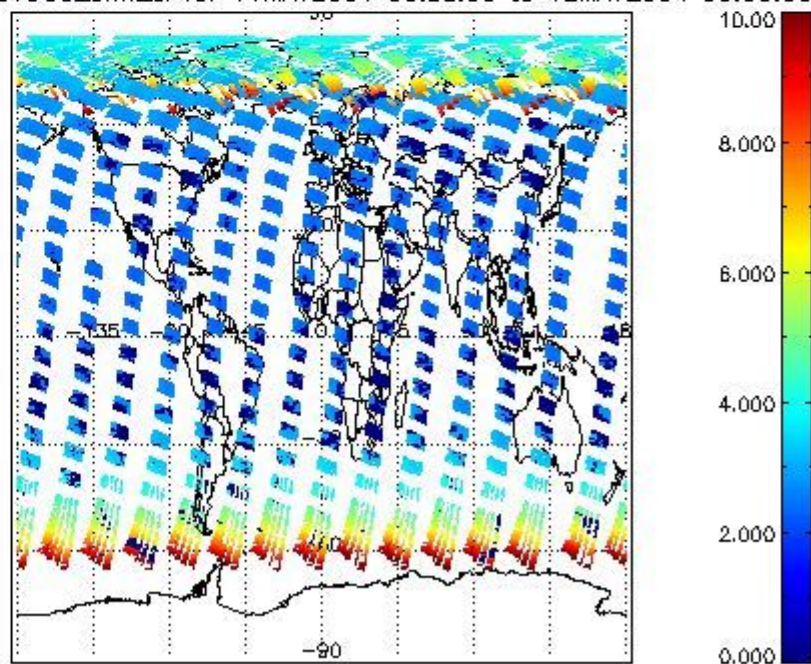
SCIOL2P_NADUV003_vcd_err for 11MAY2004 00:00:00 to 12MAY2004 00:00:00

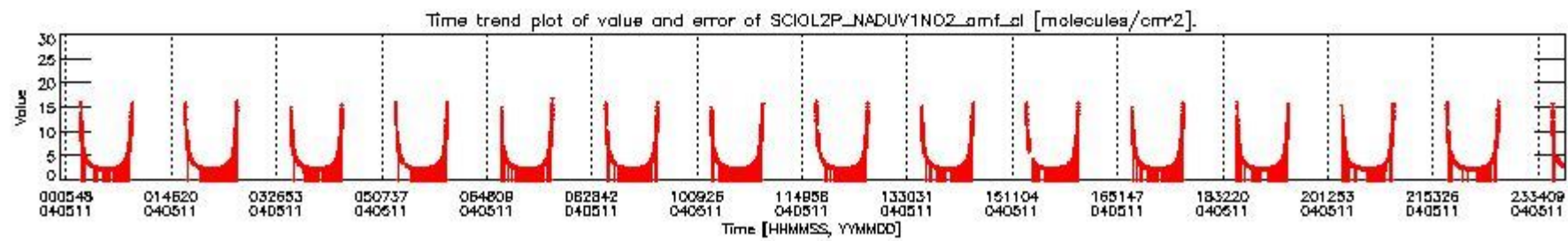
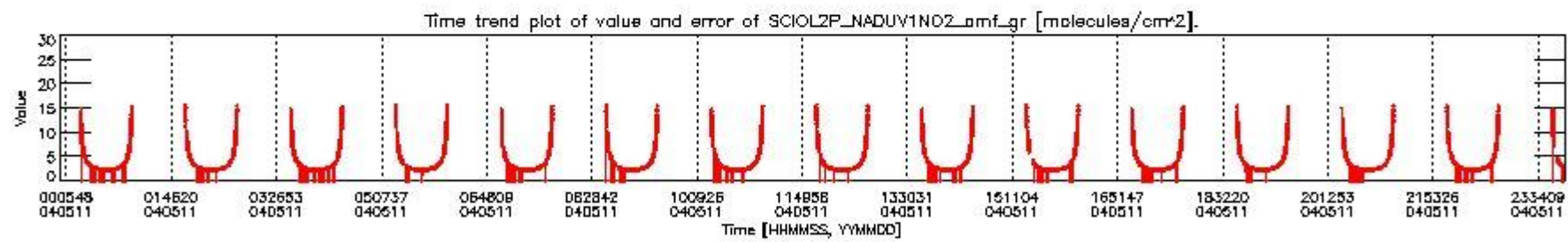
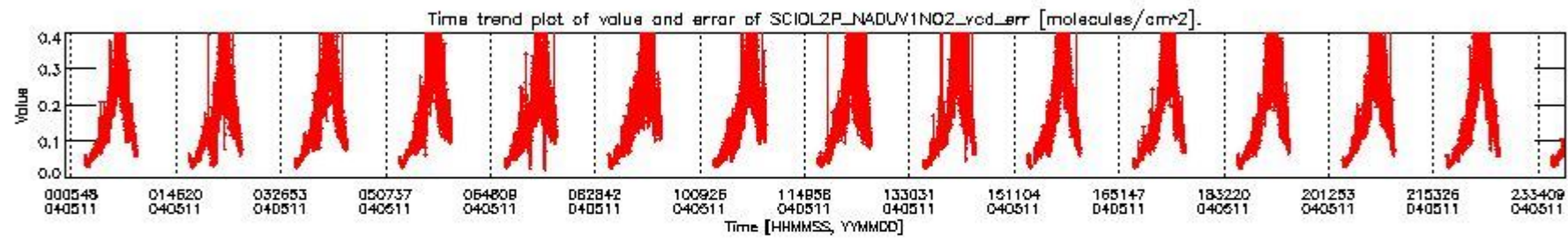
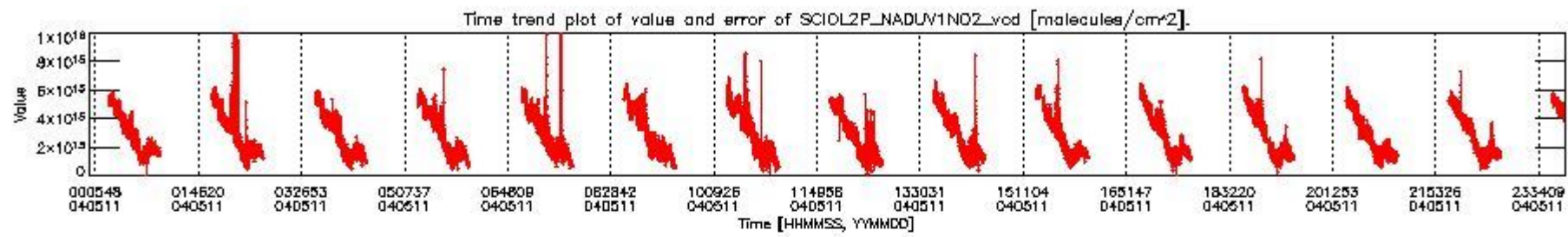


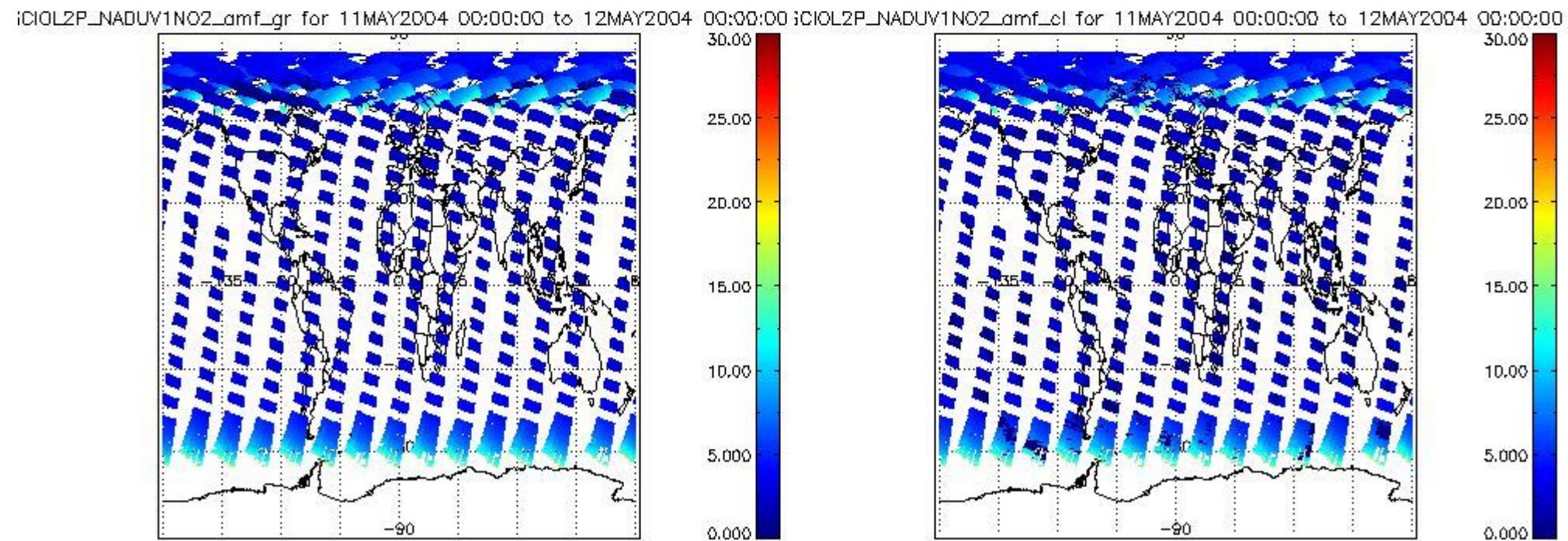
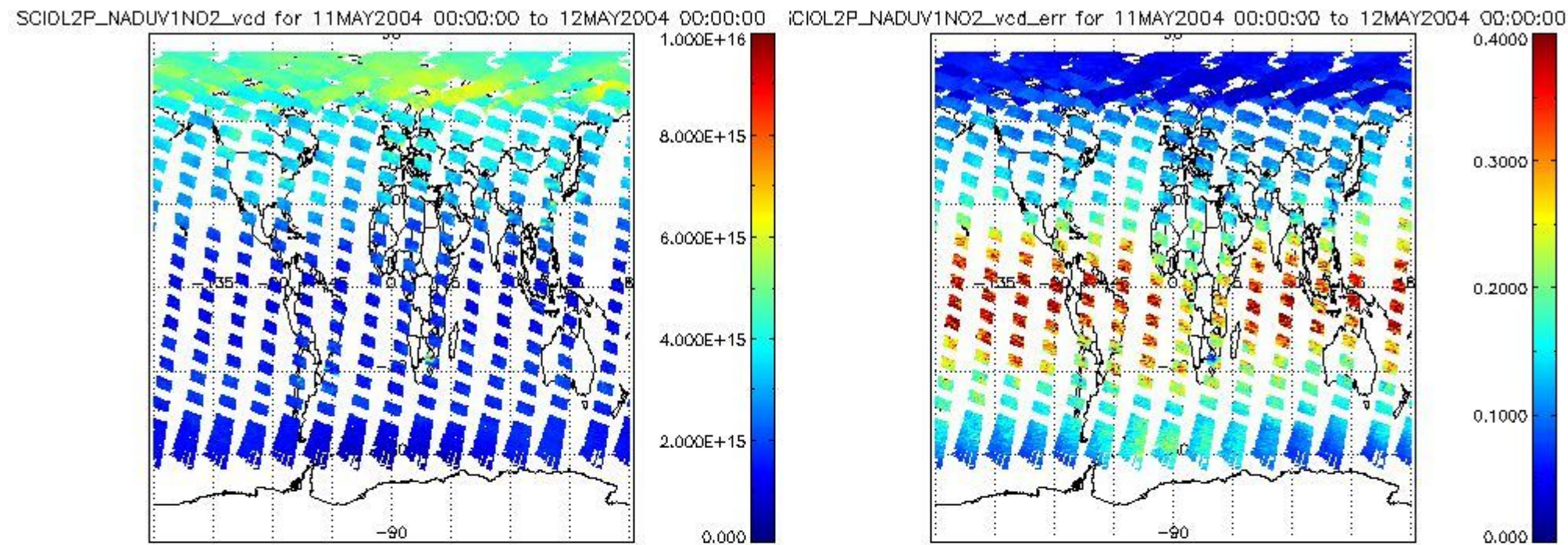
SCIOL2P_NADUV003_amf_gr for 11MAY2004 00:00:00 to 12MAY2004 00:00:00



SCIOL2P_NADUV003_amf_cl for 11MAY2004 00:00:00 to 12MAY2004 00:00:00







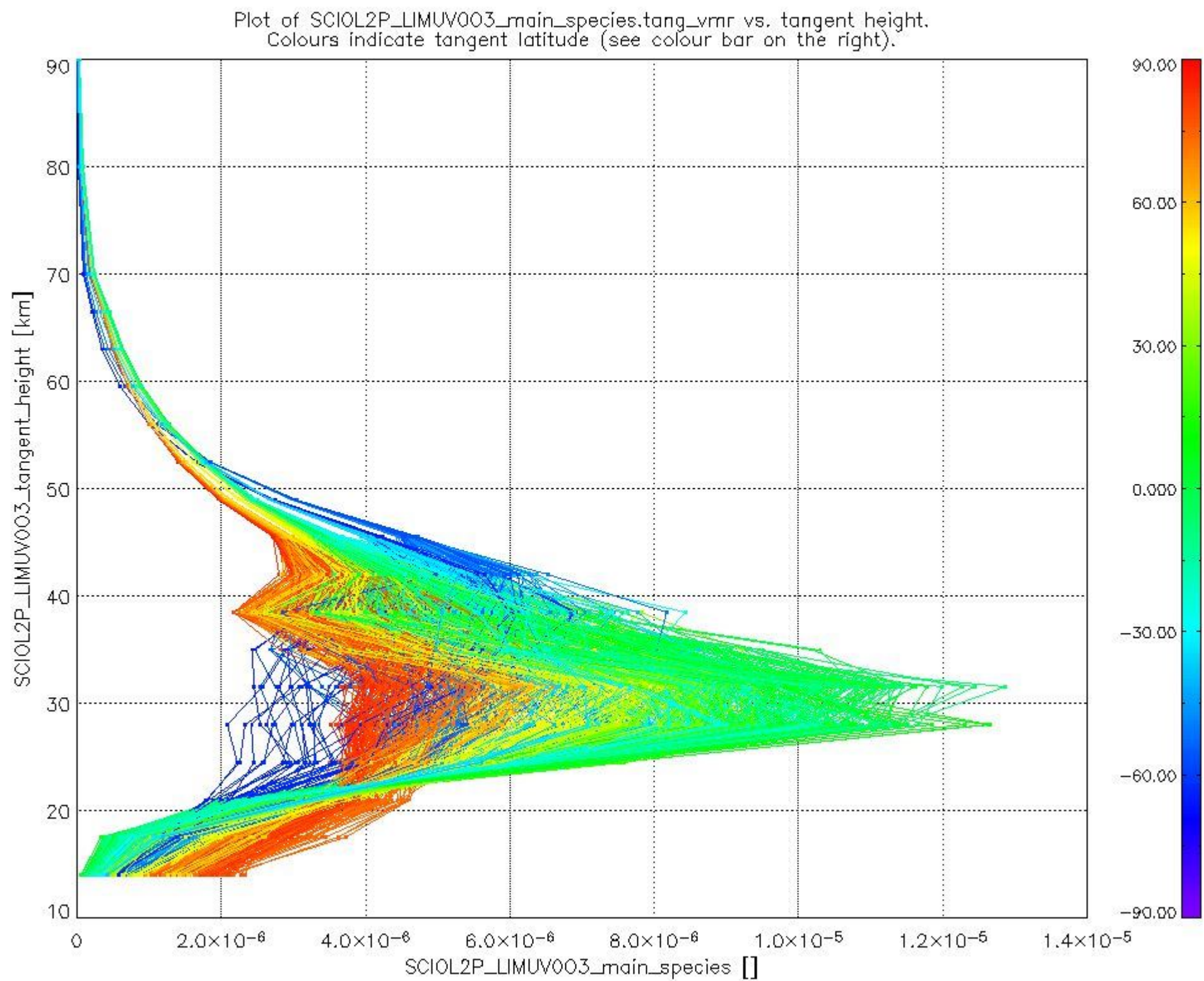
2.2.3 Limb

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

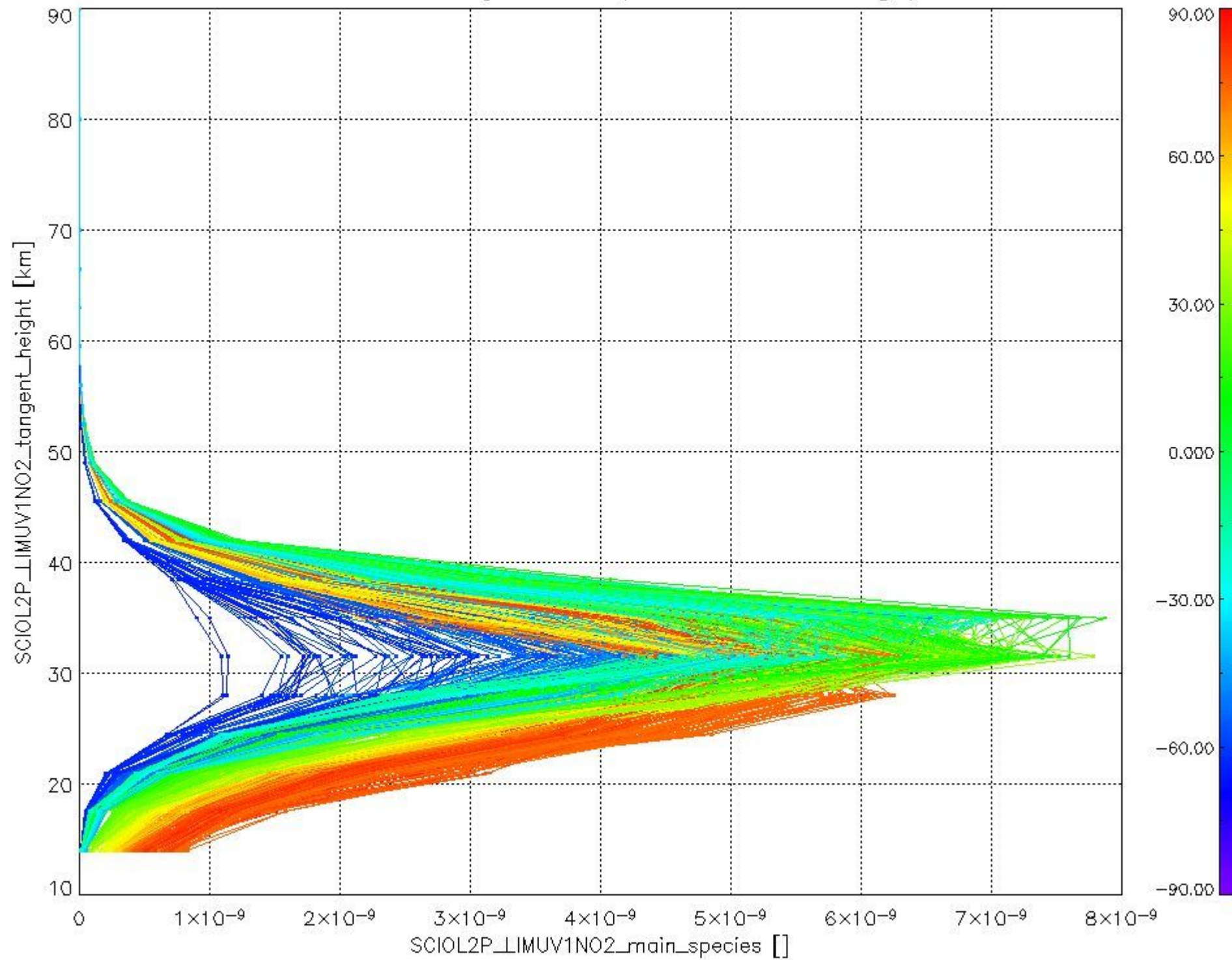
The following data items are currently included into this section:

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.



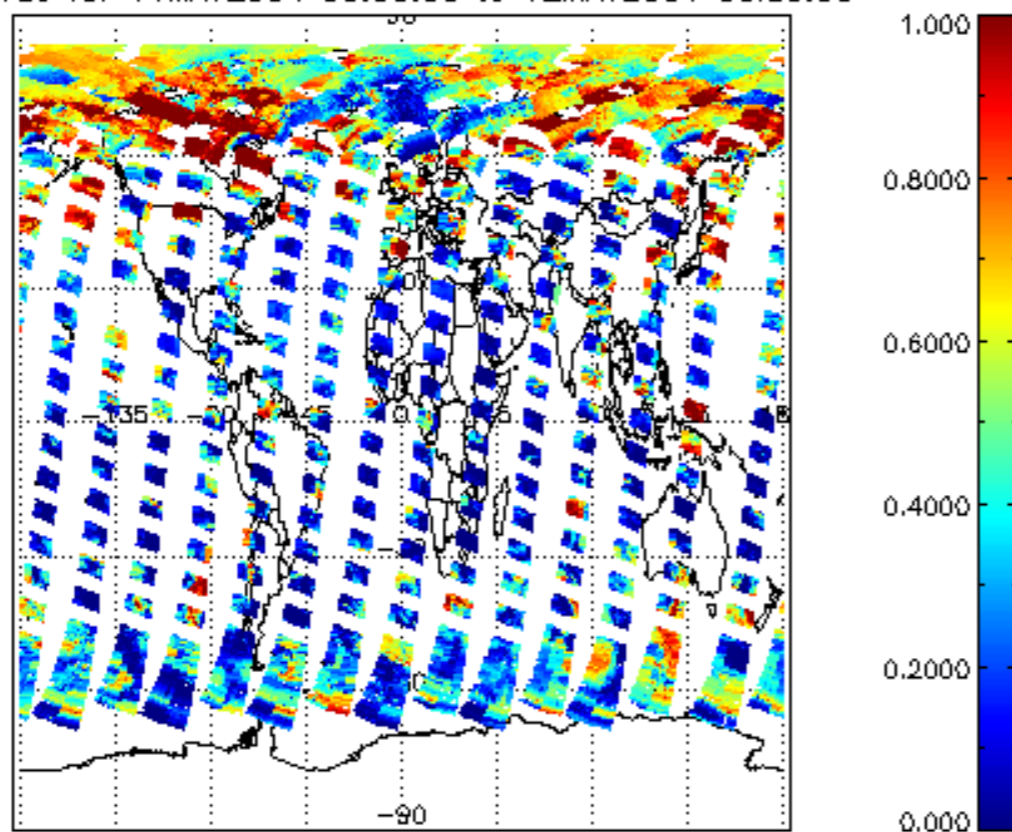
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



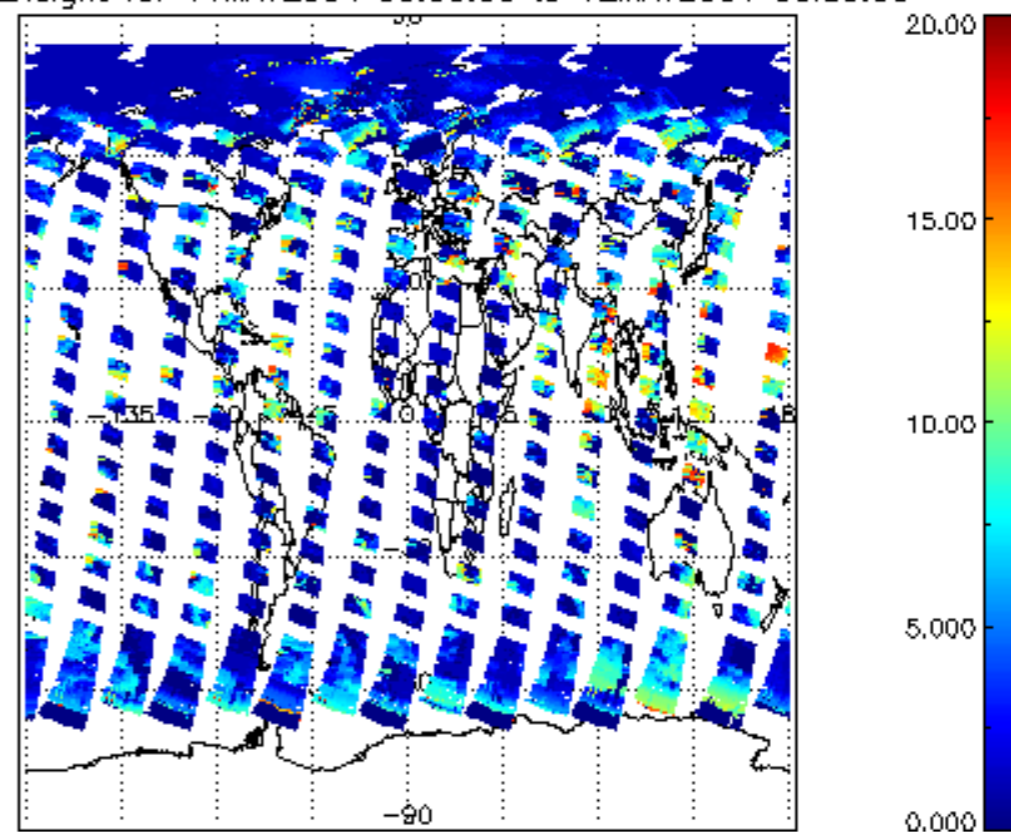
2.3 ADF monitoring

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

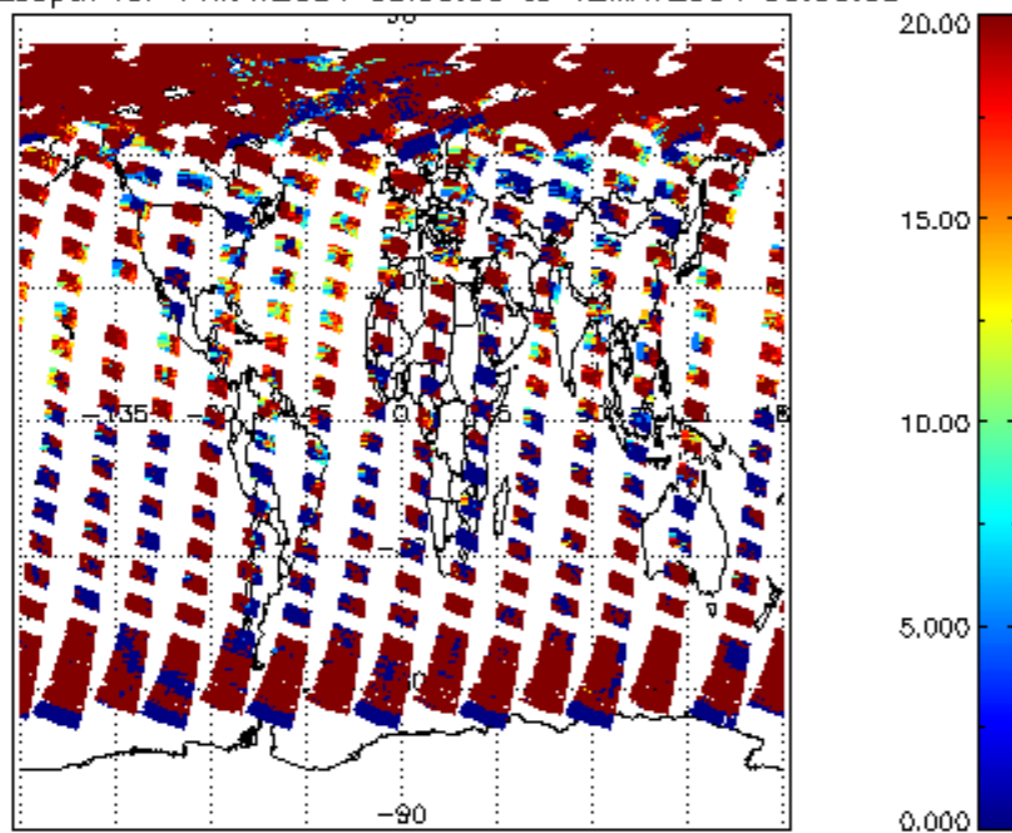
cl_frac for 11MAY2004 00:00:00 to 12MAY2004 00:00:00



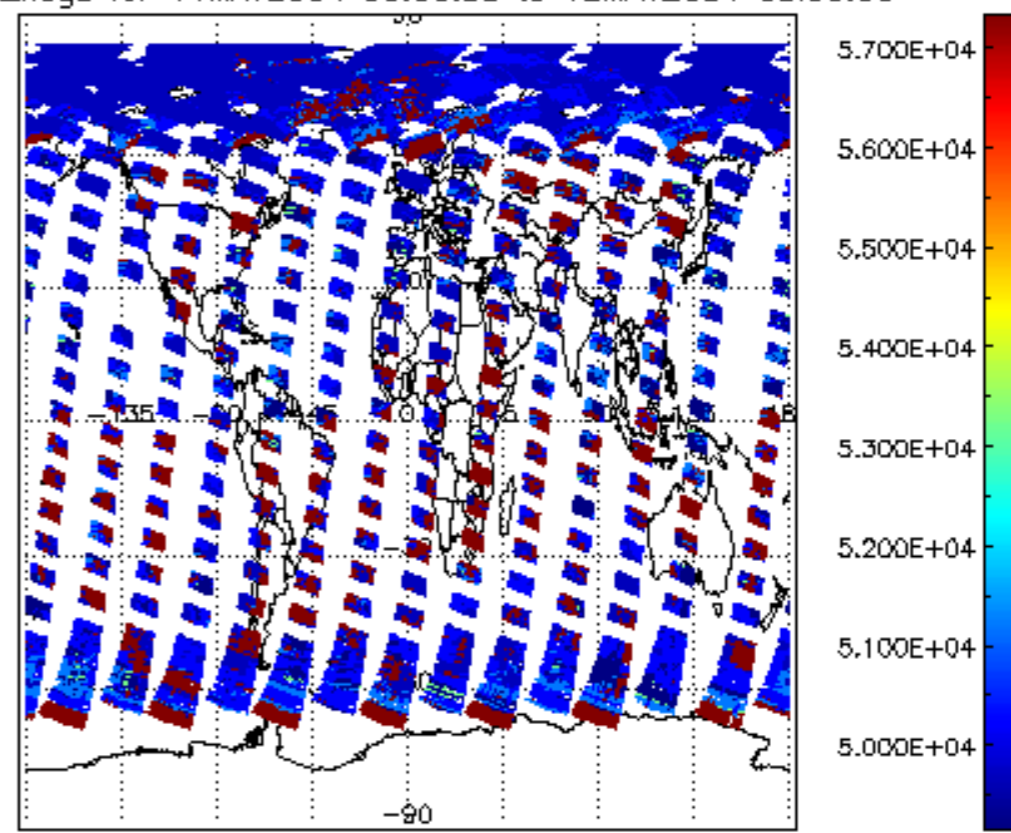
cl_top_height for 11MAY2004 00:00:00 to 12MAY2004 00:00:00

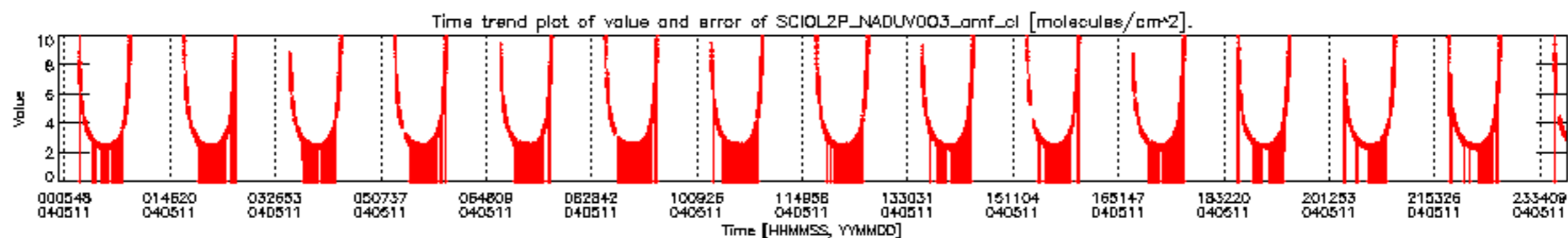
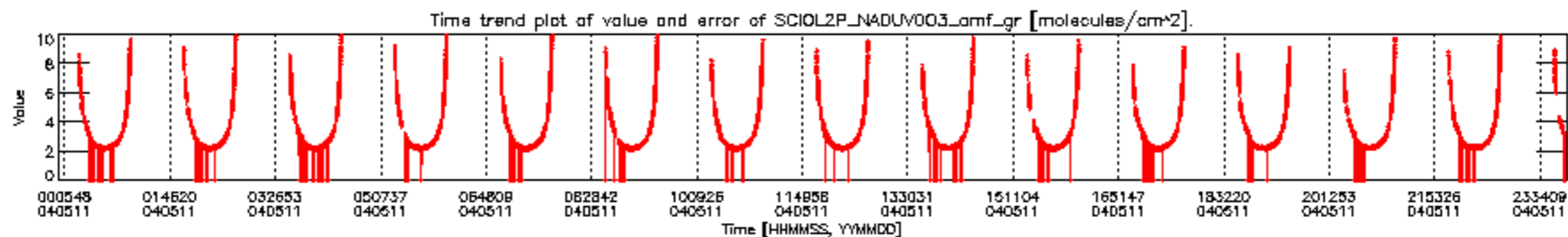
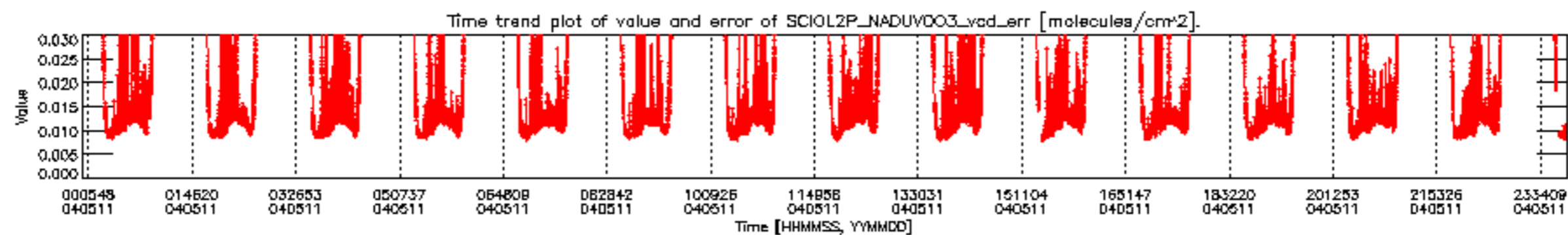
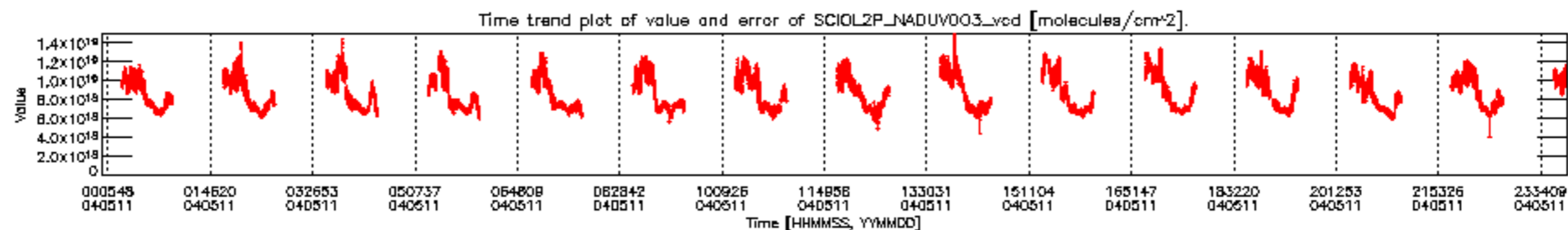


cl_opt_depth for 11MAY2004 00:00:00 to 12MAY2004 00:00:00

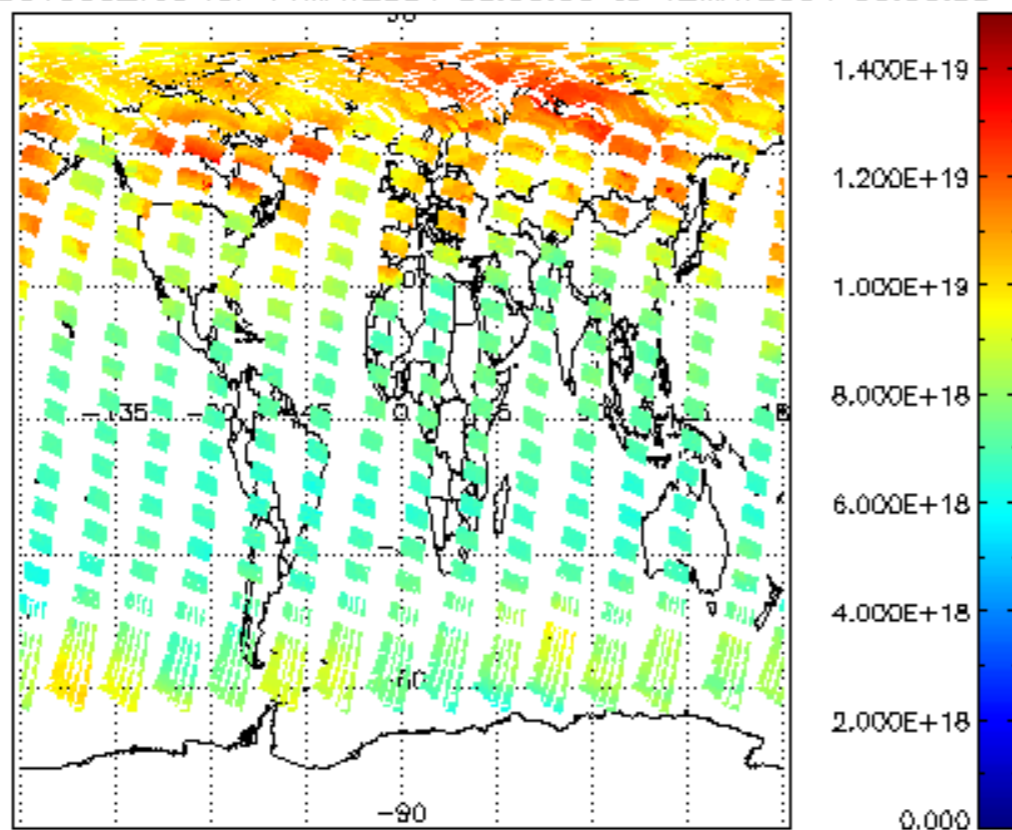


cloud_flags for 11MAY2004 00:00:00 to 12MAY2004 00:00:00

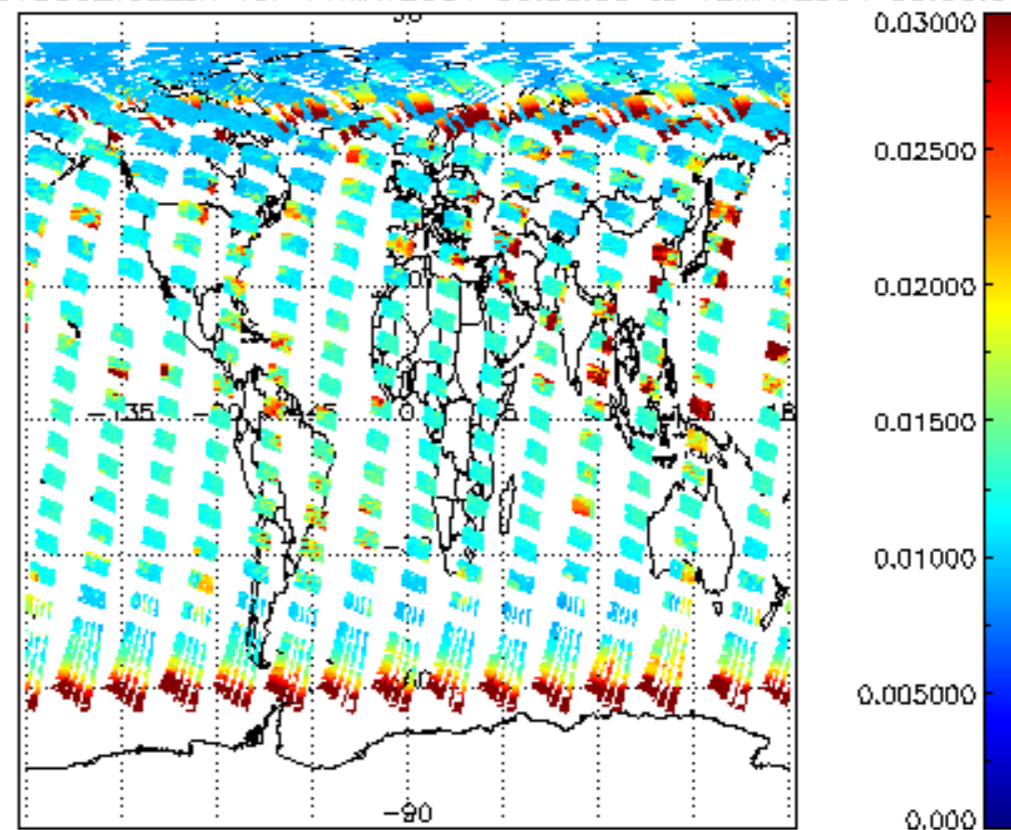




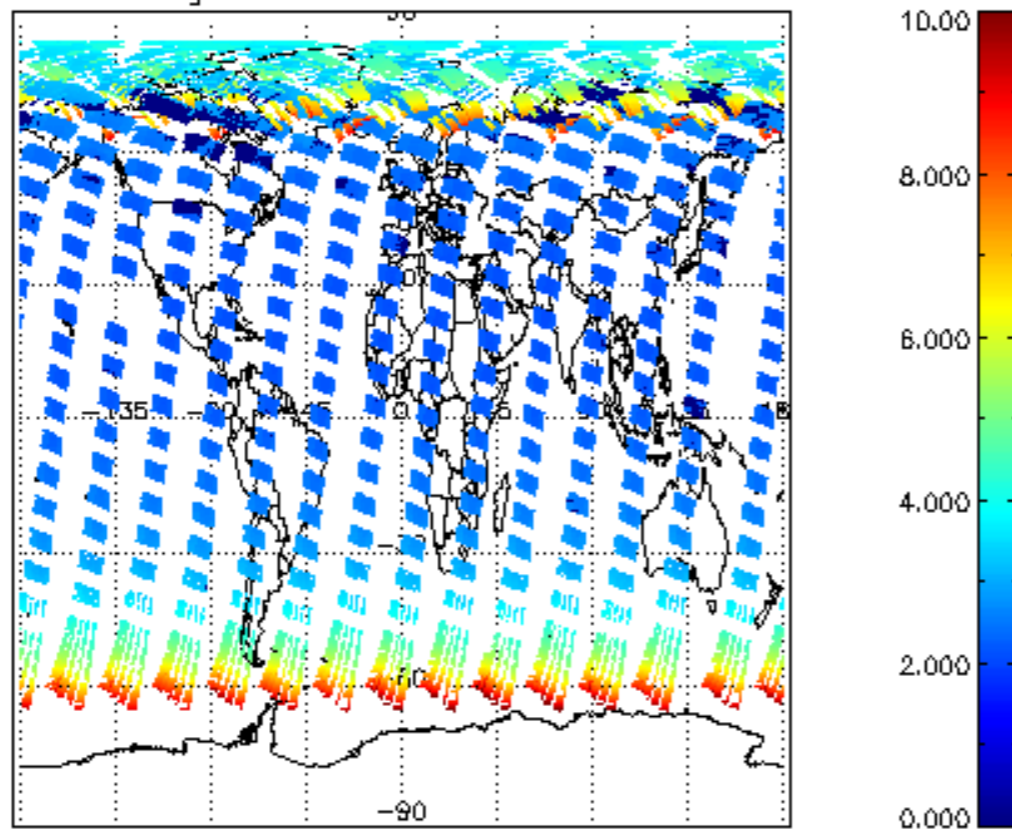
SCIOL2P_NADUV003_vcd for 11MAY2004 00:00:00 to 12MAY2004 00:00:00



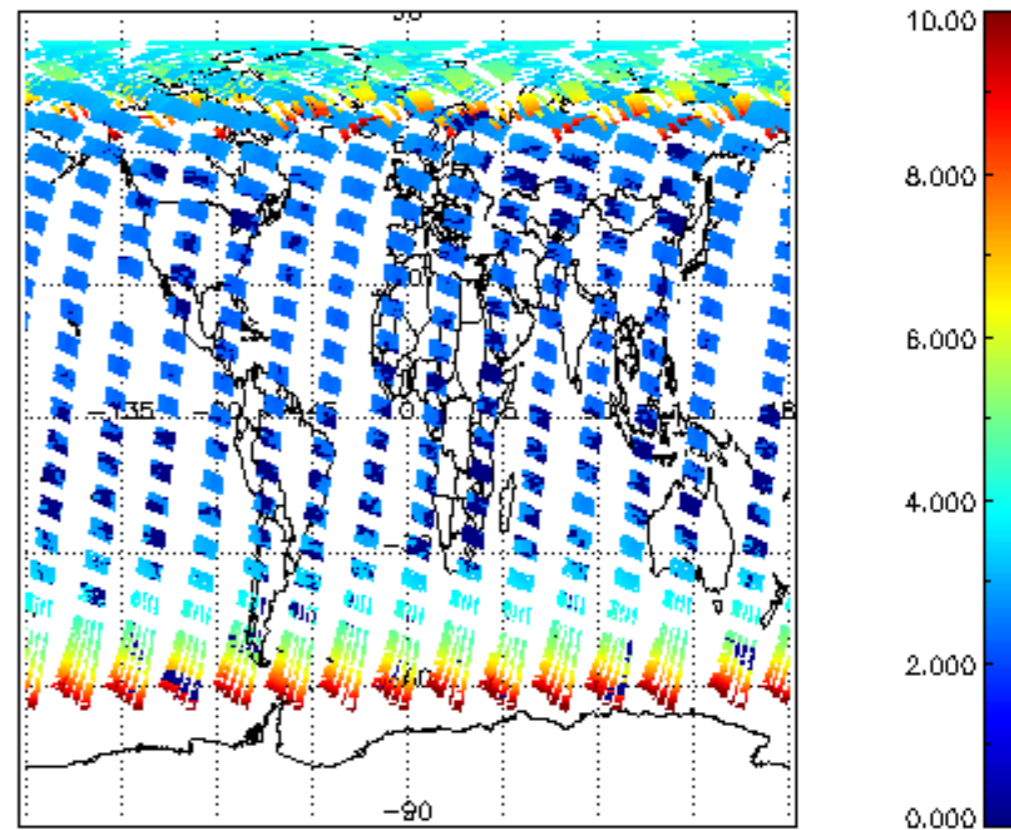
SCIOL2P_NADUV003_vcd_err for 11MAY2004 00:00:00 to 12MAY2004 00:00:00

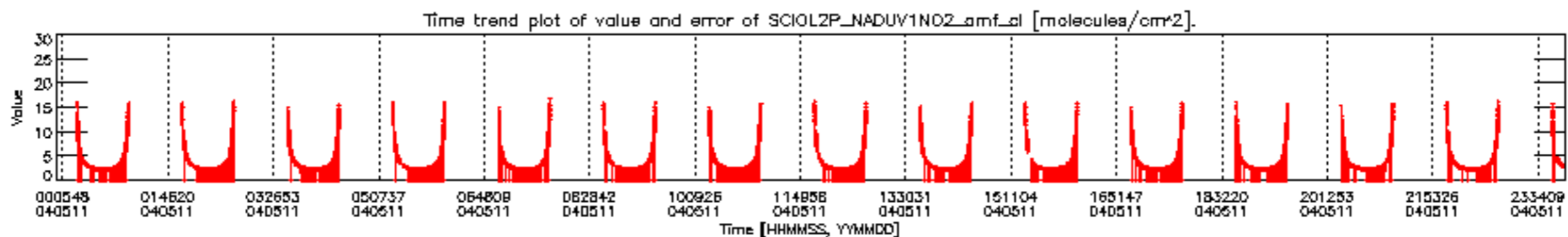
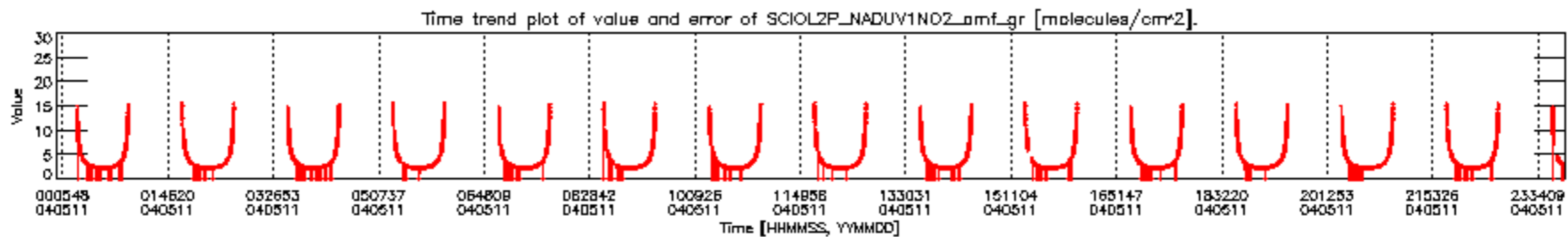
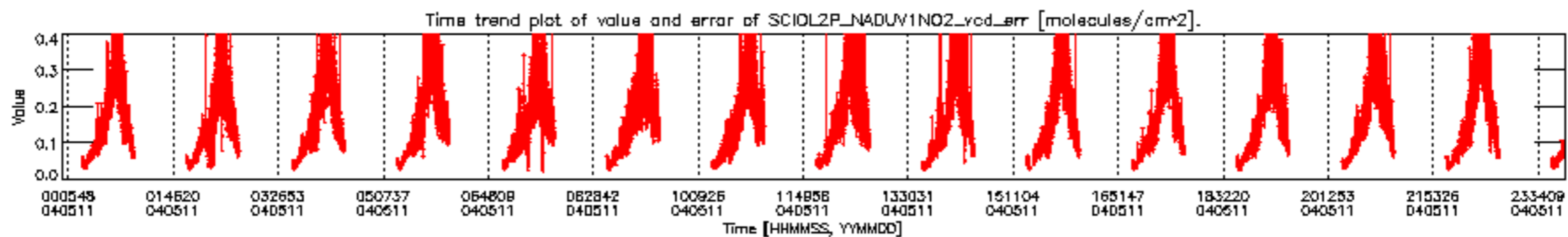
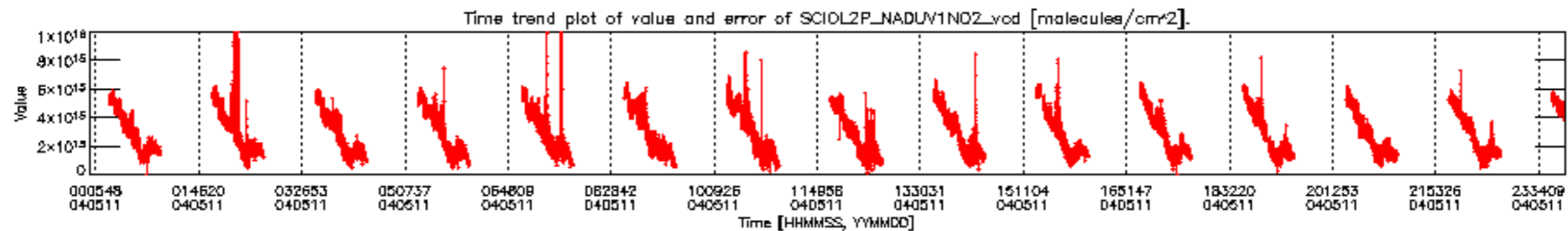


SCIOL2P_NADUV003_amf_gr for 11MAY2004 00:00:00 to 12MAY2004 00:00:00

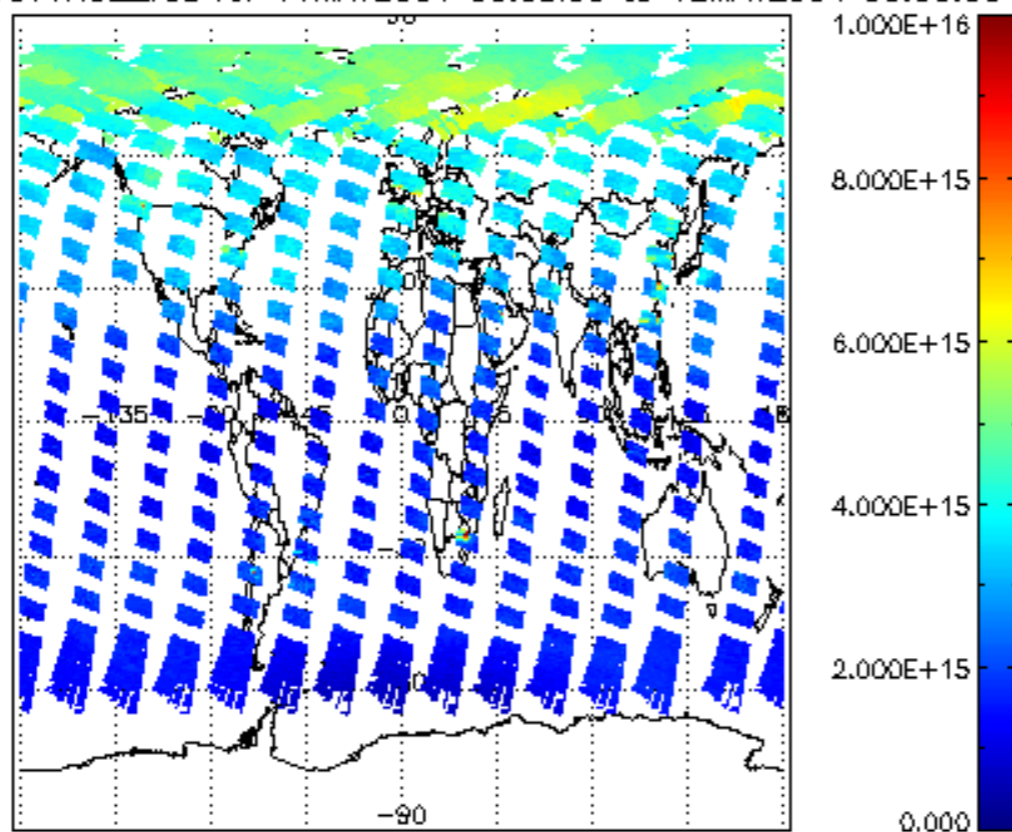


SCIOL2P_NADUV003_amf_cl for 11MAY2004 00:00:00 to 12MAY2004 00:00:00

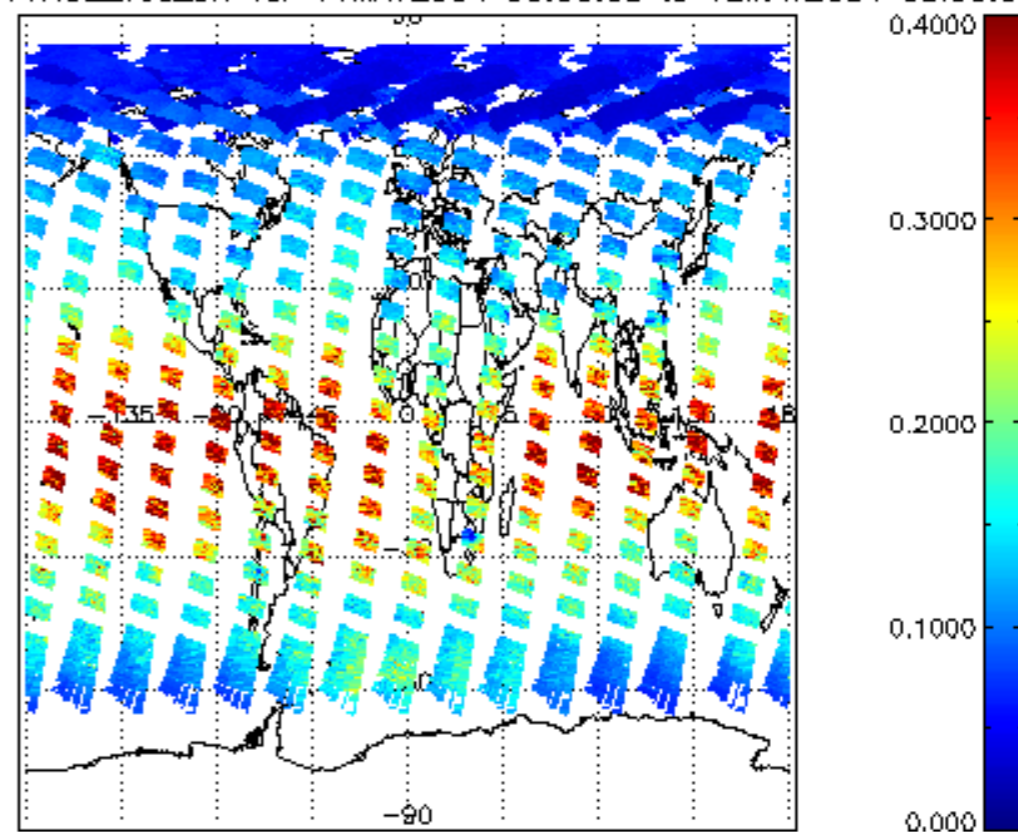




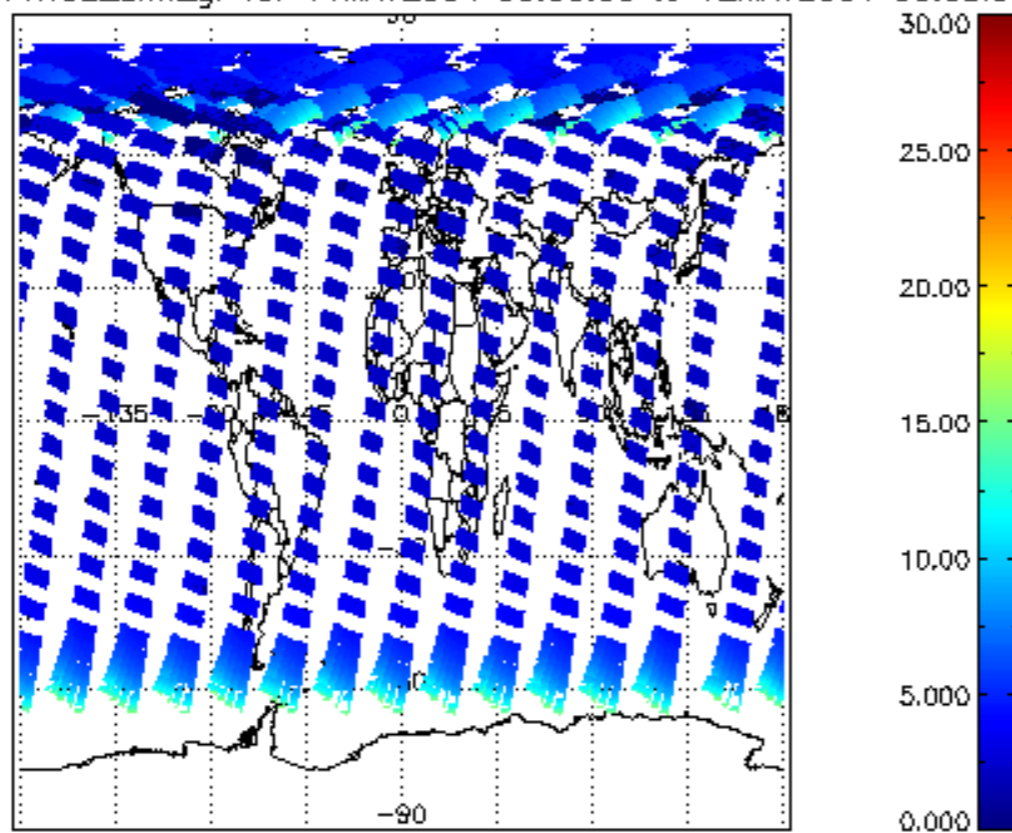
SCIOL2P_NADUV1NO2_vcd for 11MAY2004 00:00:00 to 12MAY2004 00:00:00



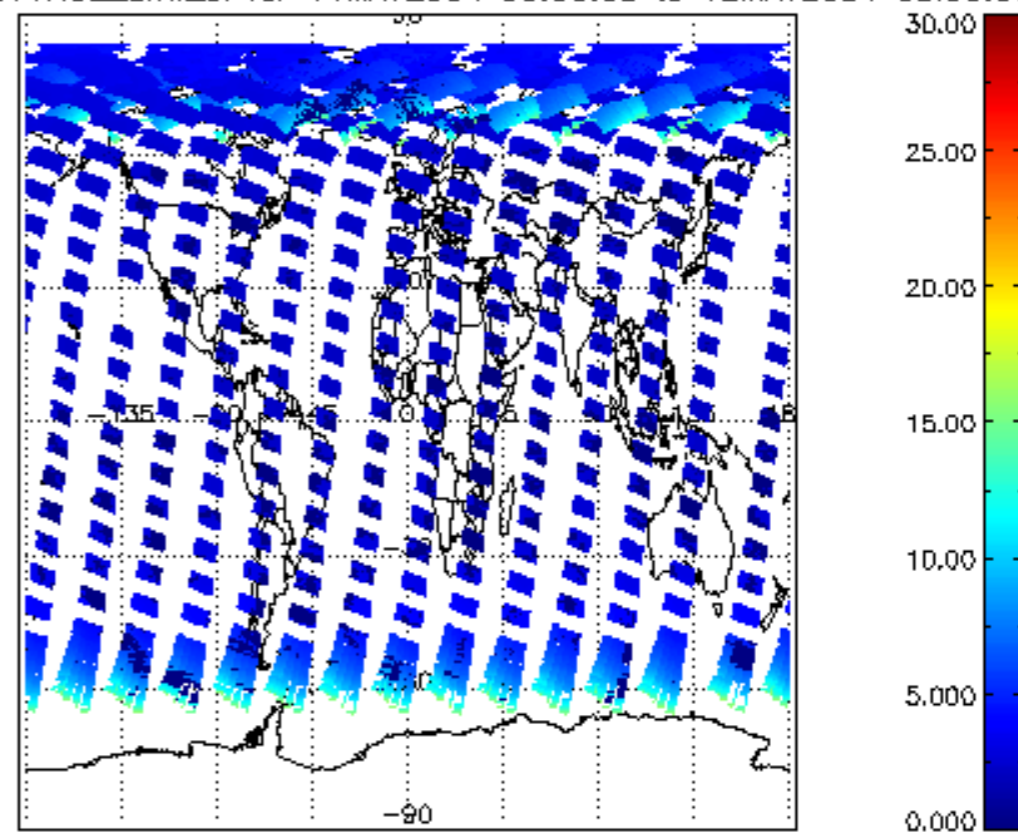
iCIOL2P_NADUV1NO2_vcd_err for 11MAY2004 00:00:00 to 12MAY2004 00:00:00



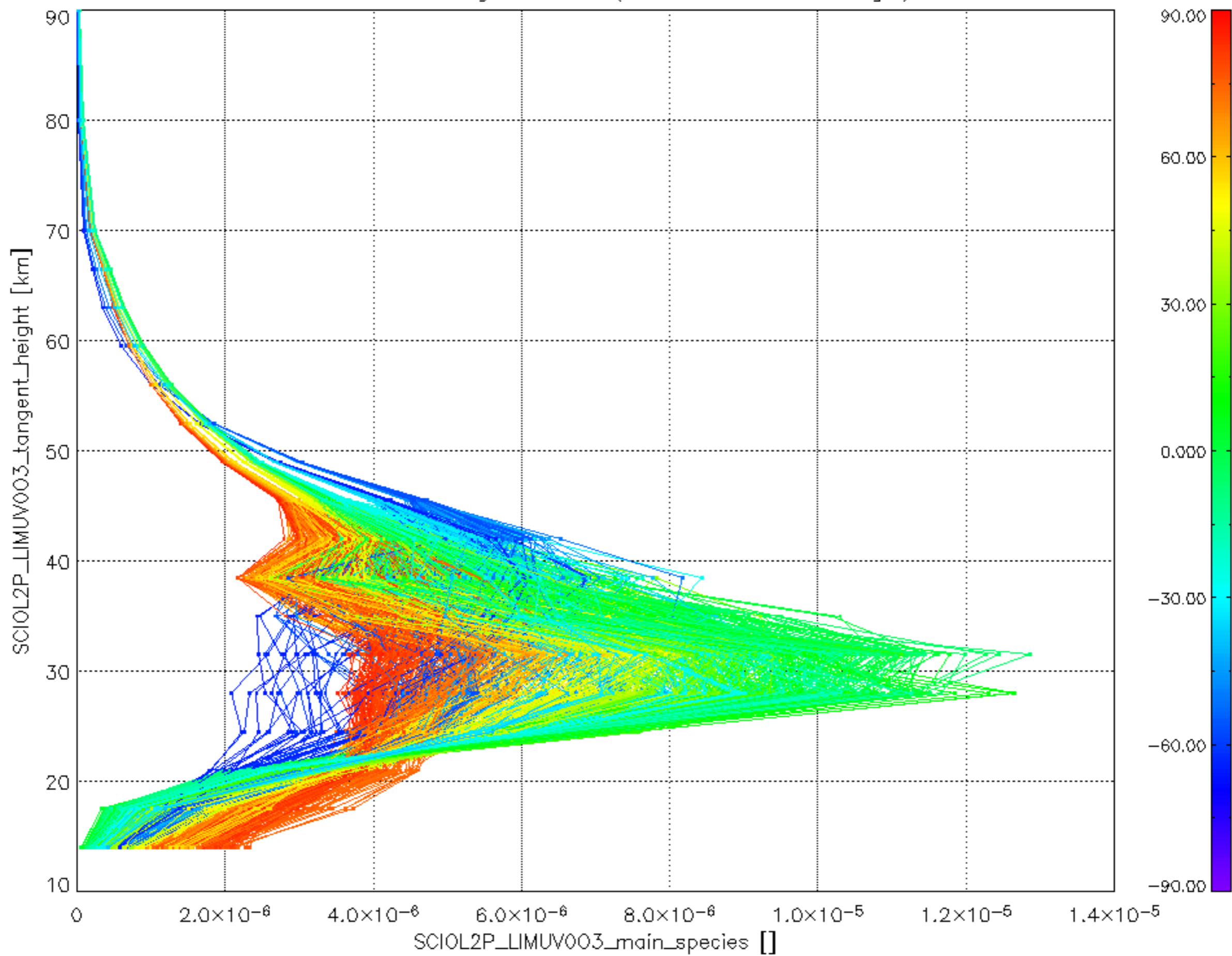
iCIOL2P_NADUV1NO2_amf_gr for 11MAY2004 00:00:00 to 12MAY2004 00:00:00



iCIOL2P_NADUV1NO2_amf_cl for 11MAY2004 00:00:00 to 12MAY2004 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).

