

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	14AUG2008 18:55:59
Data source version	SCIA-OL/3.01-R
Processing scope for products	04MAY2004 00:00:00 to 05MAY2004 00:00:00
Start time of first product within scope	03MAY2004 22:54:03
Stop time of last product within scope	05MAY2004 00:58:15
Total number of level 2 products	9
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__2PRDPA20040503_225403_000033572026_00302_11378_7676.N1	03MAY2004 22:54:03	03MAY2004 23:50:00	0	GOOD
1	SCI_OL__2PRDPA20040504_003438_000033452026_00303_11379_7617.N1	04MAY2004 00:34:38	04MAY2004 01:30:23	0	GOOD
2	SCI_OL__2PRDPA20040504_021514_000033322026_00304_11380_7686.N1	04MAY2004 02:15:14	04MAY2004 03:10:47	0	GOOD
3	SCI_OL__2PRDPA20040504_035550_000033202026_00305_11381_7665.N1	04MAY2004 03:55:50	04MAY2004 04:51:10	0	GOOD
4	SCI_OL__2PRDPA20040504_053625_000033072026_00306_11382_7682.N1	04MAY2004 05:36:25	04MAY2004 06:31:33	0	GOOD
5	SCI_OL__2PRDPA20040504_071701_000032942026_00307_11383_7663.N1	04MAY2004 07:17:01	04MAY2004 08:11:56	0	GOOD
6	SCI_OL__2PRDPA20040504_172032_000033182026_00313_11389_7604.N1	04MAY2004 17:20:32	04MAY2004 18:15:51	0	GOOD
7	SCI_OL__2PRDPA20040504_222640_000030812026_00316_11392_7631.N1	04MAY2004 22:26:40	04MAY2004 23:18:02	0	GOOD
8	SCI_OL__2PRDPA20040505_000653_000030812026_00317_11393_7705.N1	05MAY2004 00:06:53	05MAY2004 00:58:15	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: 53000

Total number of cloud data DSRs with good quality flag (=0): 53000 (100.0 %)

Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
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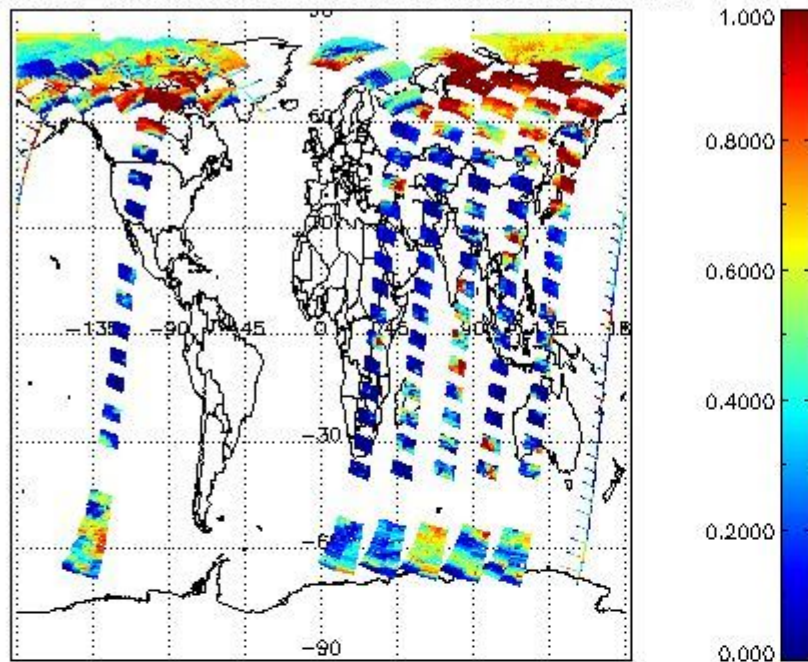
QUALITY_FLAG	53000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	53000	0.23594	0.25000	0.12500	1.0000	0.080700		s
CL_FRAC	53000	0.41124	0.38328	0.0000	1.0000	0.32930		-
CL_FRAC_ERR	53000	0.0000	0.0000	0.0000	0.0000	0.0000		rel. fraction
PMD_READ	53000	7.5502	8.0000	4.0000	32.000	2.5824		
PMD_READ_CL[0]	53000	0.69225	0.0000	0.0000	16.000	2.0897		-
PMD_READ_CL[1]	53000	1.3377	0.0000	0.0000	32.000	2.7762		-
CL_TOP_HEIGHT	47893	3.4813	1.2850	0.0000	17.000	4.0600		km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---		---
CL_OPT_DEPTH	47893	53.384	40.287	0.0000	101.00	42.493		km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---		---
CL_TYPE_FLAGS	53000	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	53000	11001001	11000010	11000000	11100000	3167.6		flags
AERO_ABSO_IND	53000	0.71145	0.36171	-4.5920	12.866	1.1399		
AERO_IND_DIAG	53000	0.0000	0.0000	0.0000	0.0000	0.0000		
AERO_FLAGS	53000	01011100	00000000	00000000	11000000	24564.		flags

Time and geolocation plots:

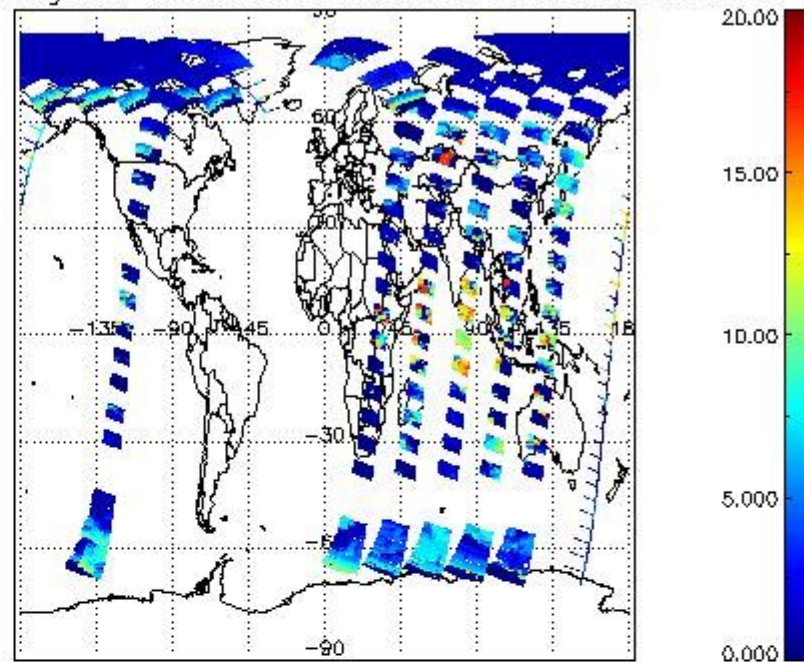
Plots are available for the following parameters:

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

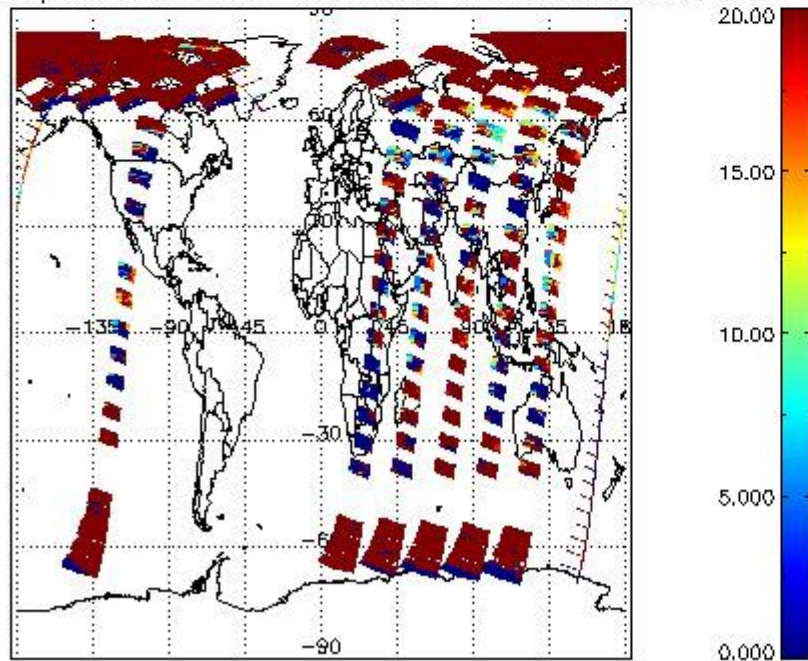
cL_frac for 04MAY2004 00:00:00 to 05MAY2004 00:00:00



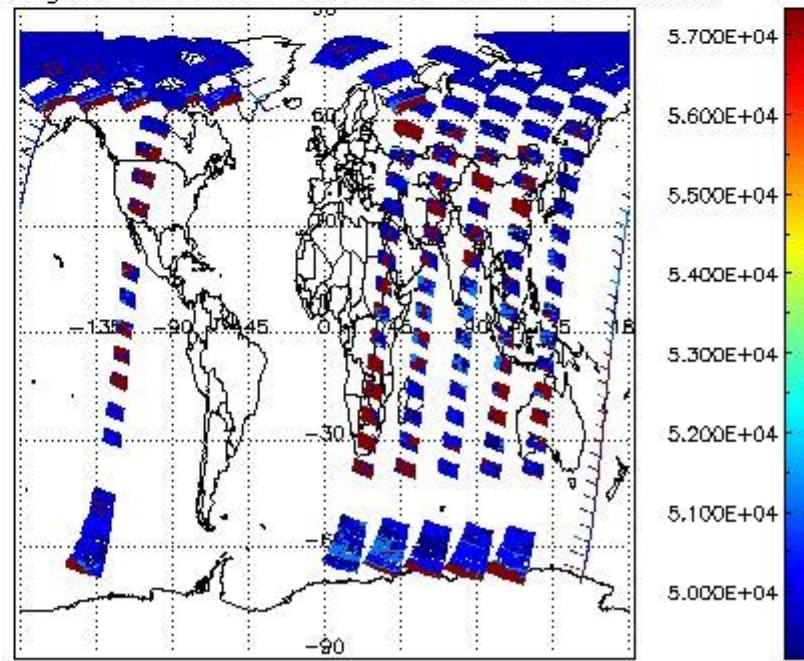
cL_top_height for 04MAY2004 00:00:00 to 05MAY2004 00:00:00



cL_opt_depth for 04MAY2004 00:00:00 to 05MAY2004 00:00:00



cloud_flags for 04MAY2004 00:00:00 to 05MAY2004 00:00:00



2.2.2 Nadir

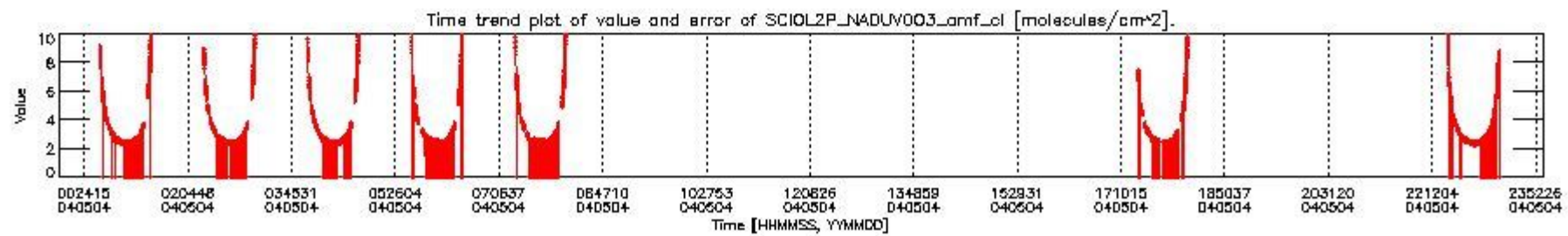
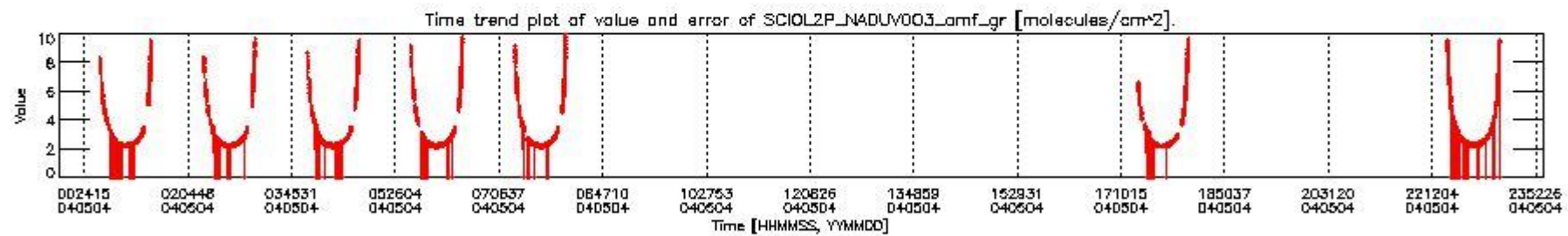
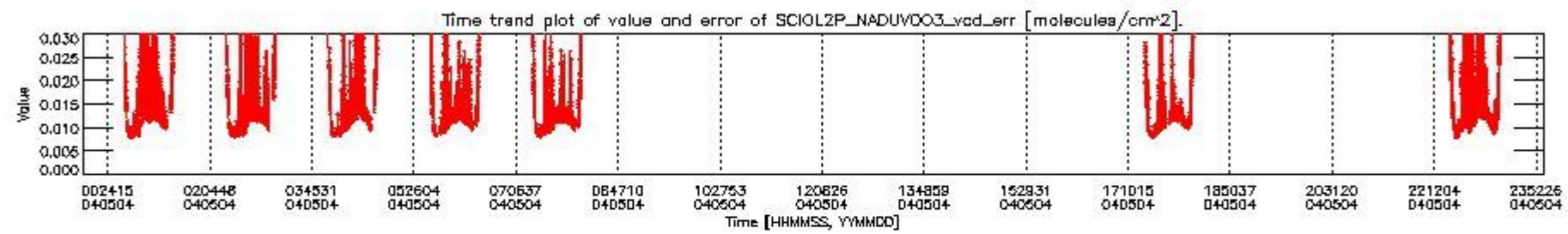
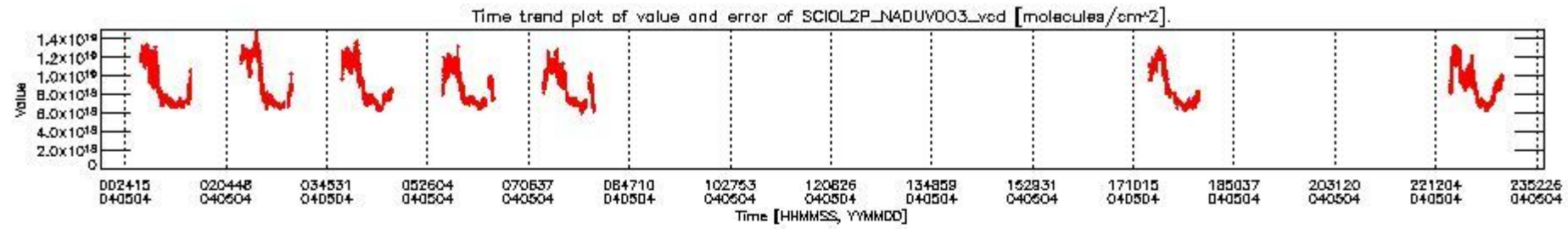
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

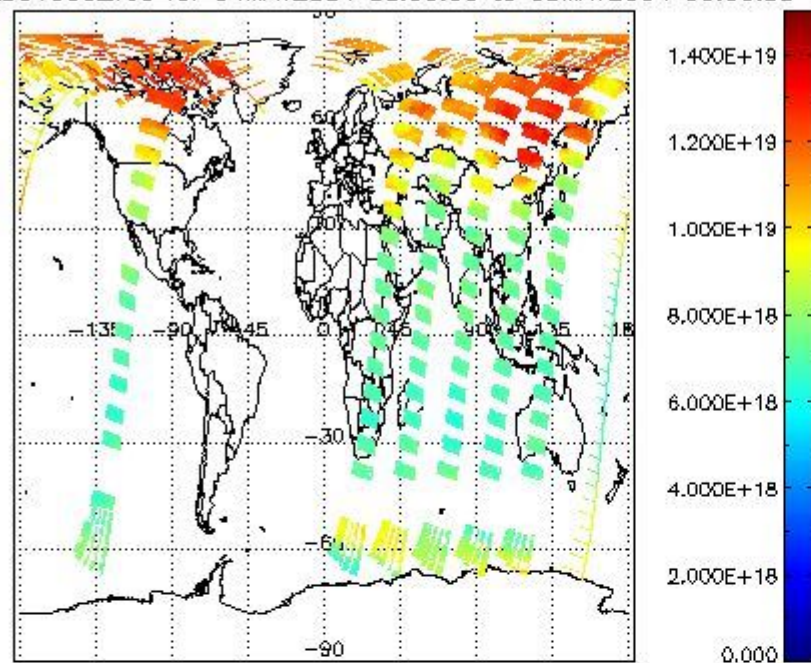
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

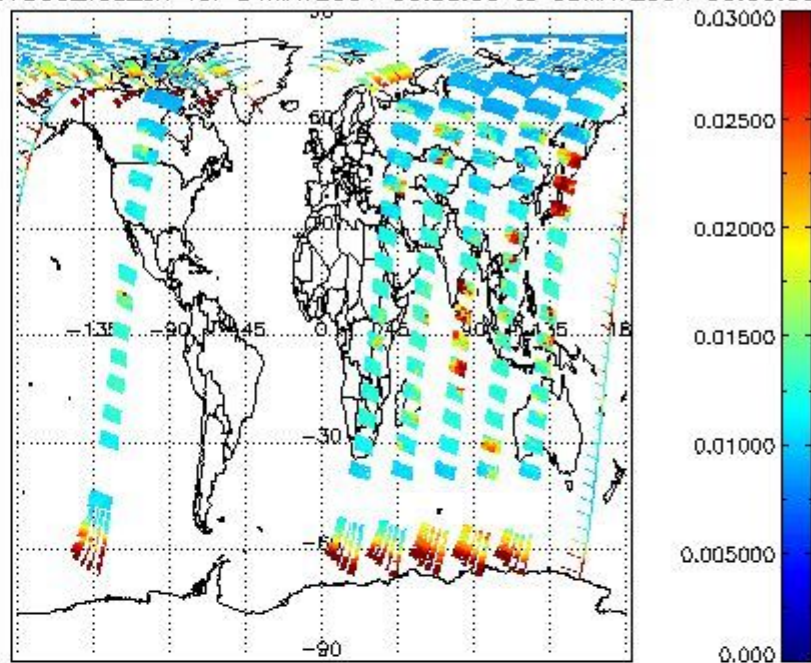
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



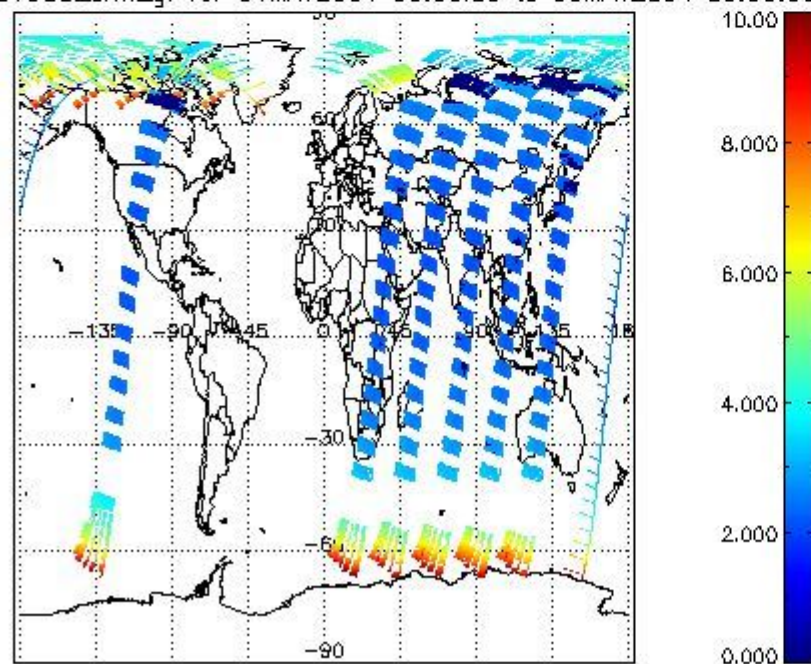
SCIOL2P_NADUV003_vcd for 04MAY2004 00:00:00 to 05MAY2004 00:00:00



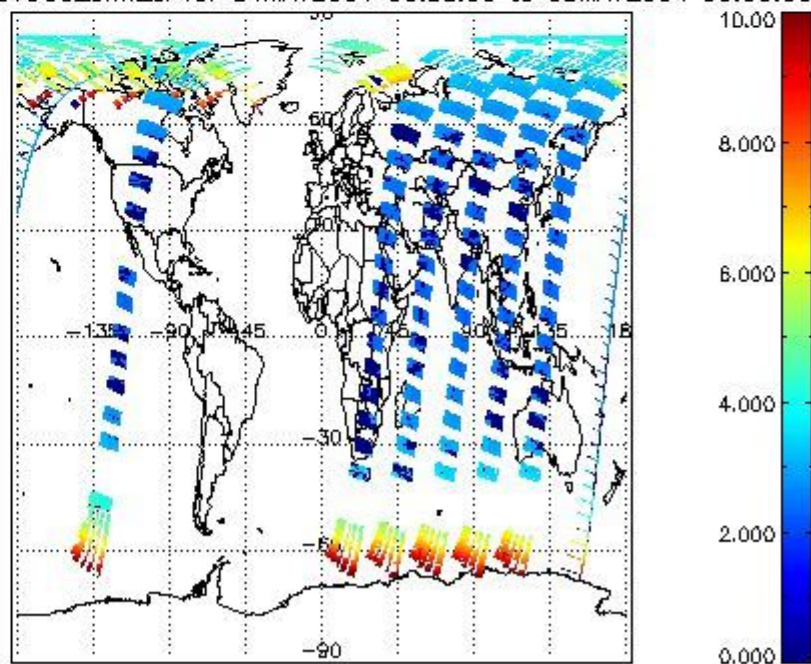
SCIOL2P_NADUV003_vcd_err for 04MAY2004 00:00:00 to 05MAY2004 00:00:00

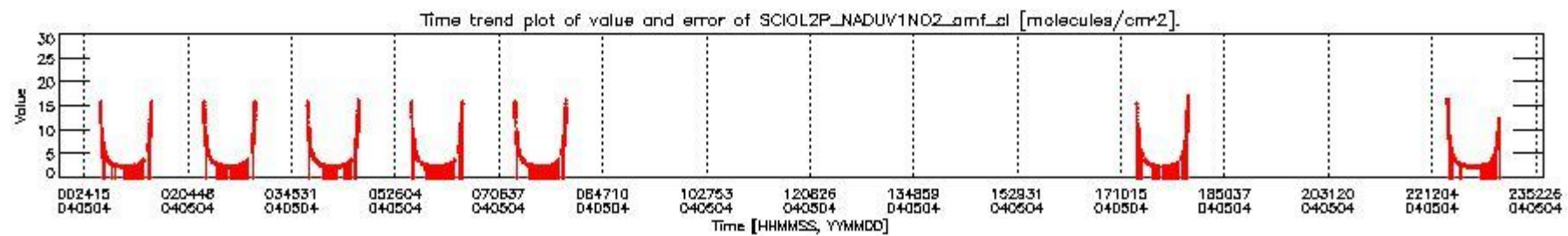
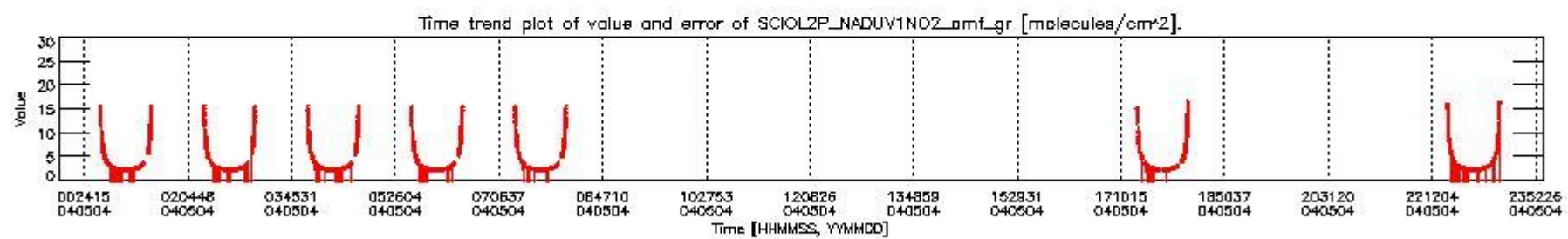
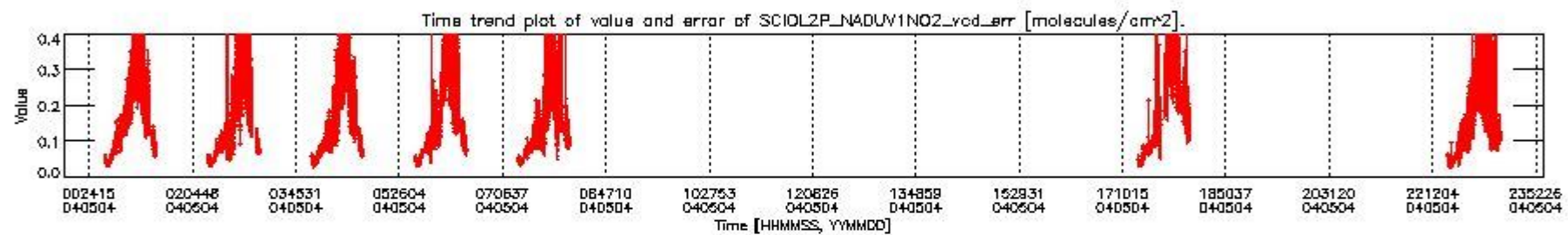
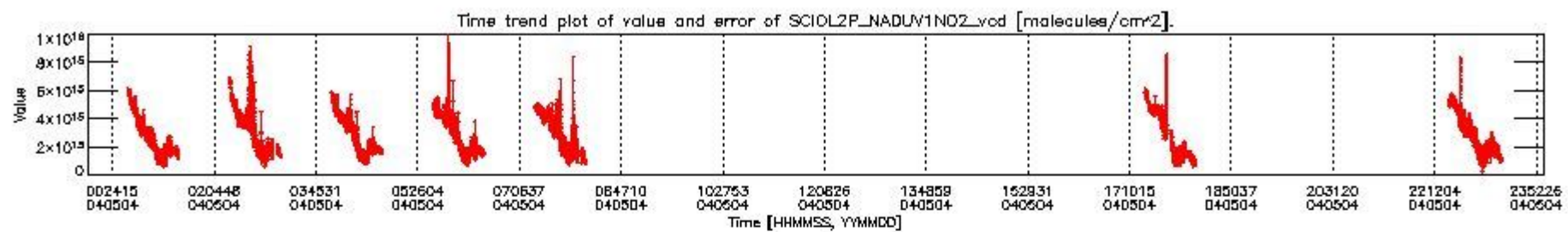


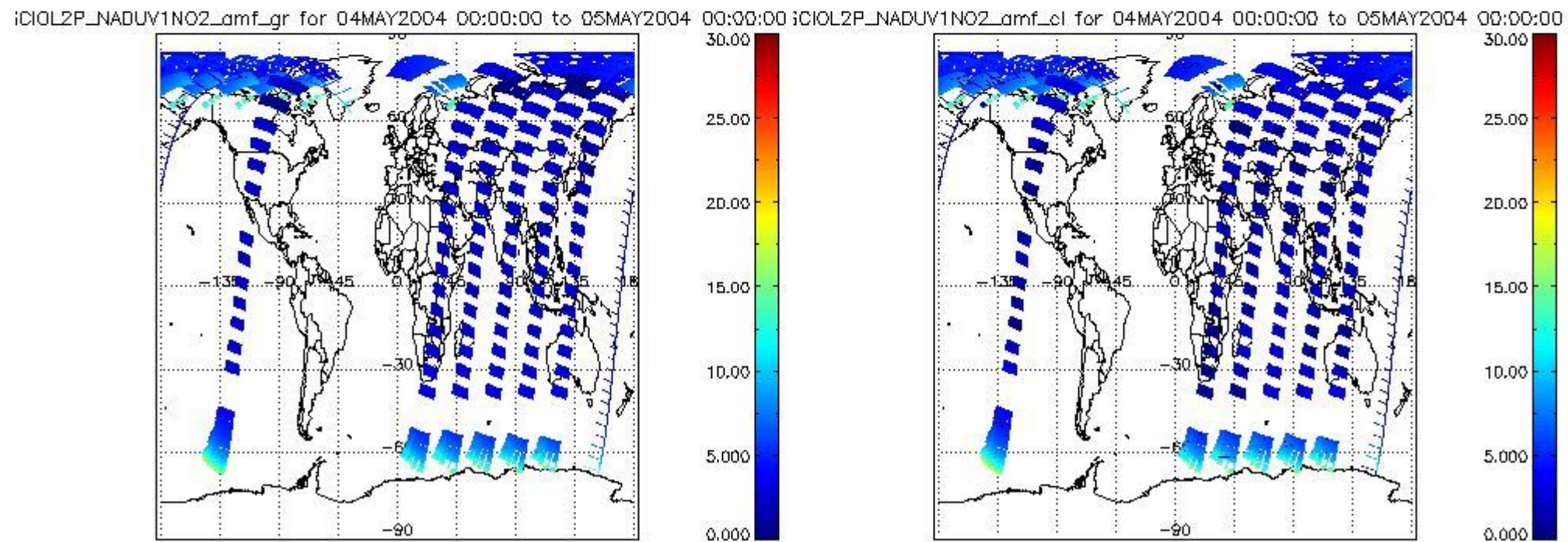
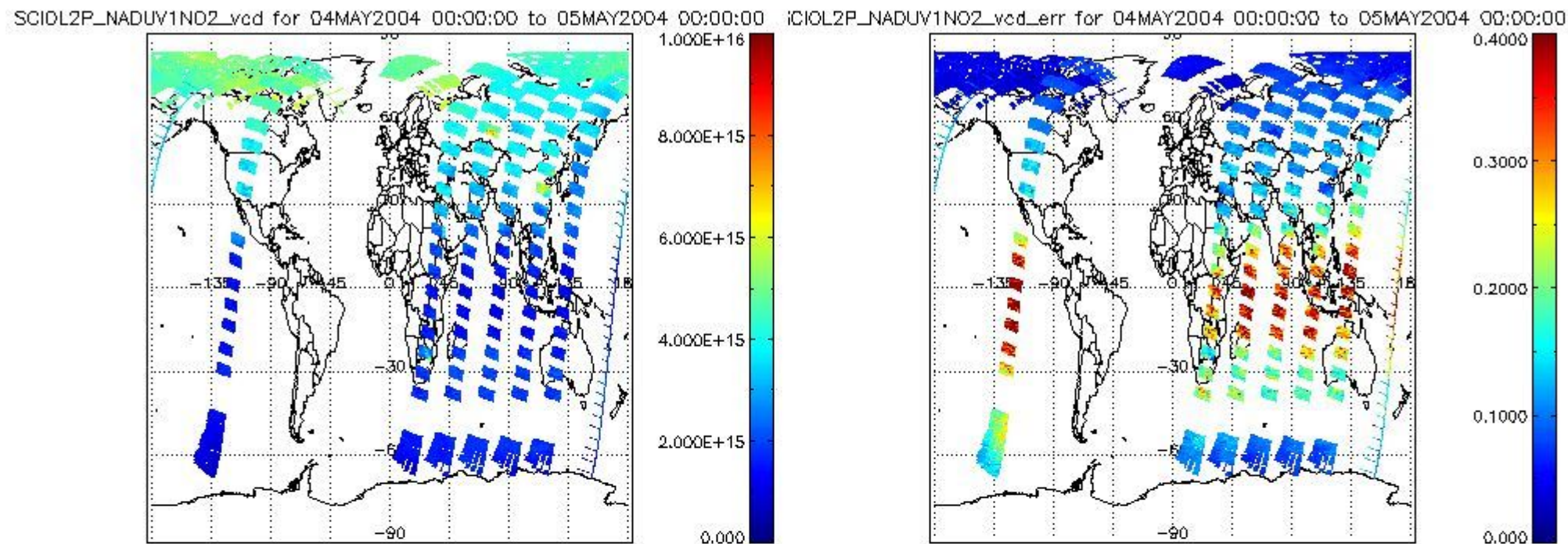
SCIOL2P_NADUV003_amf_gr for 04MAY2004 00:00:00 to 05MAY2004 00:00:00



SCIOL2P_NADUV003_amf_cl for 04MAY2004 00:00:00 to 05MAY2004 00:00:00







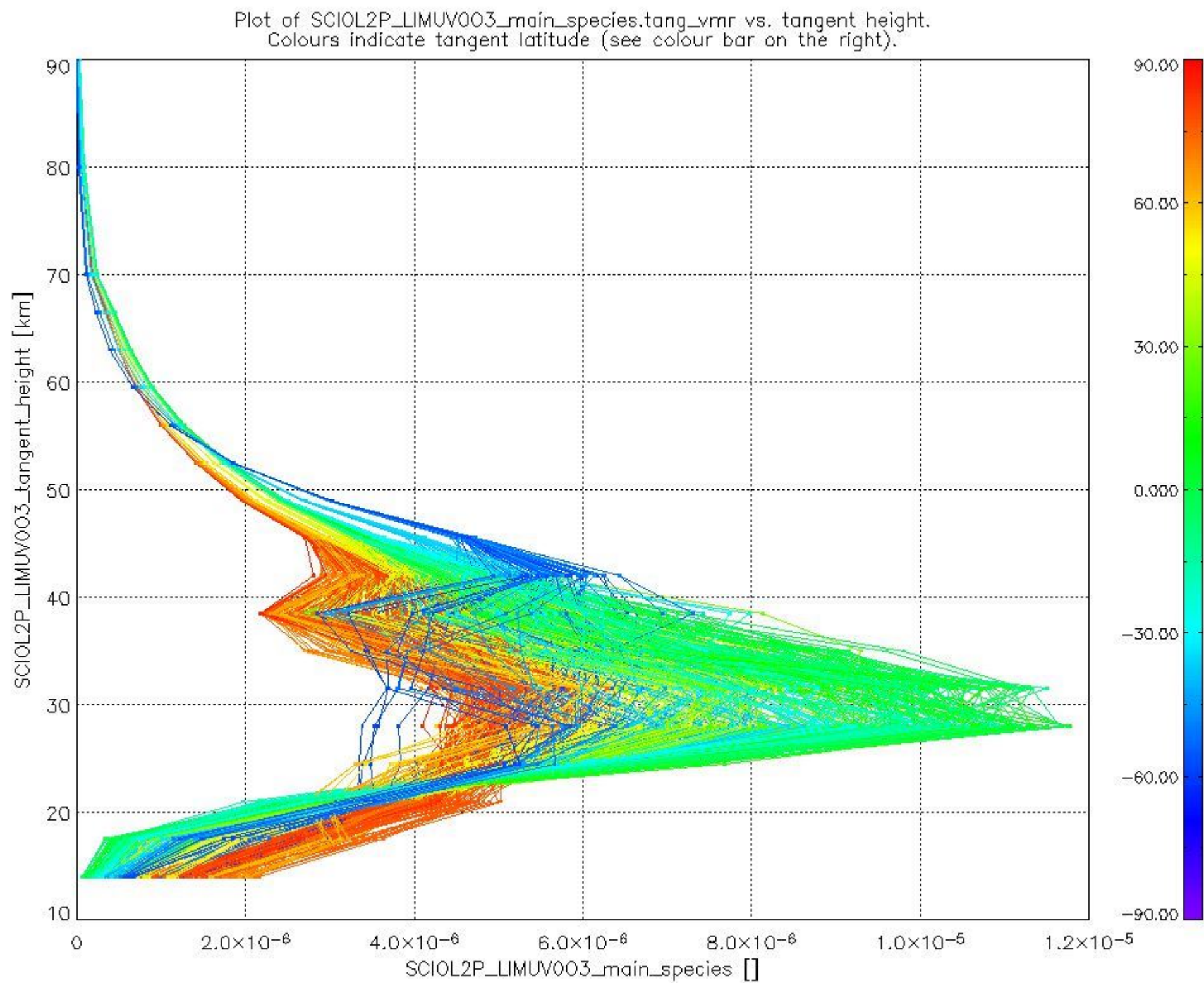
2.2.3 Limb

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

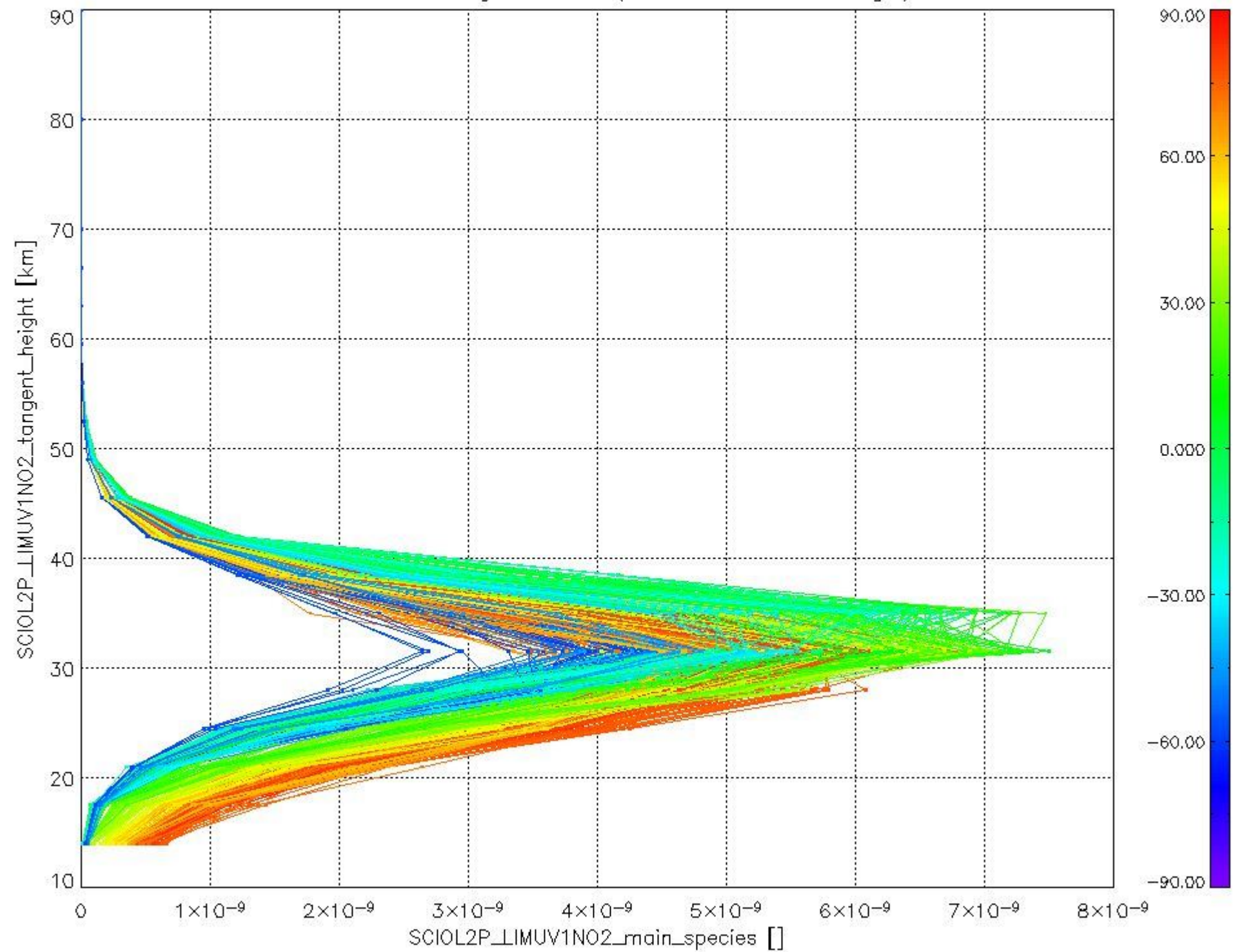
The following data items are currently included into this section:

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.



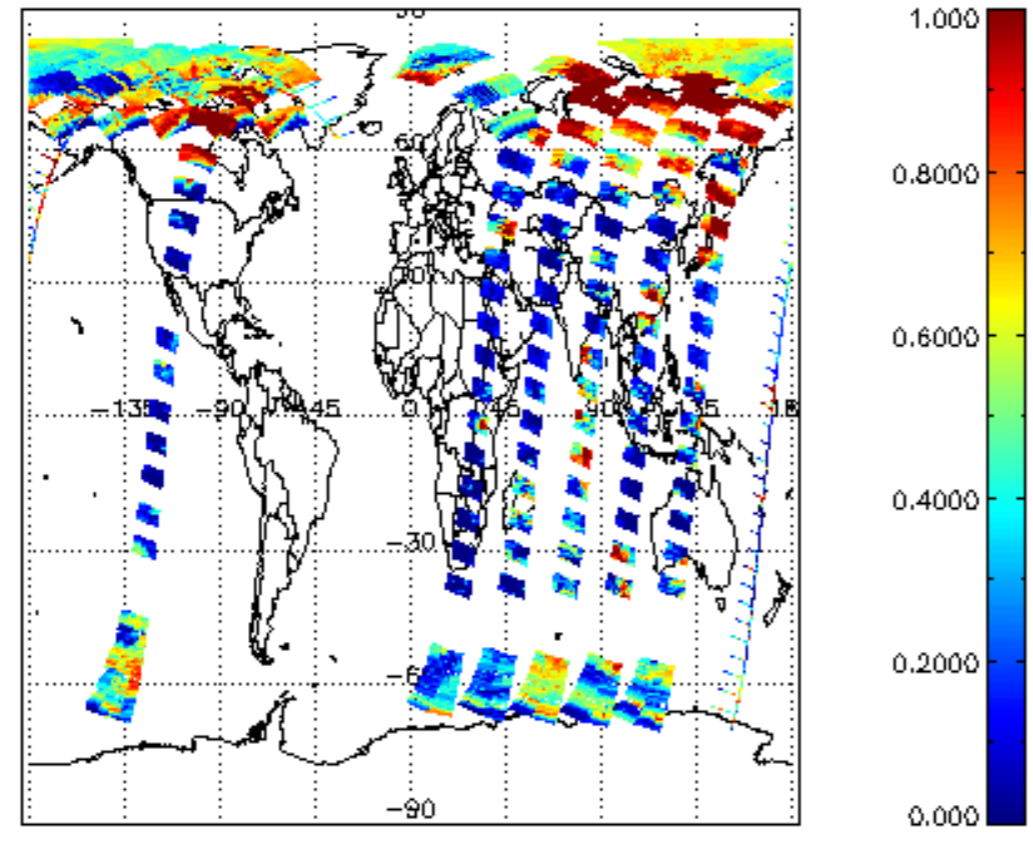
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
 Colours indicate tangent latitude (see colour bar on the right).



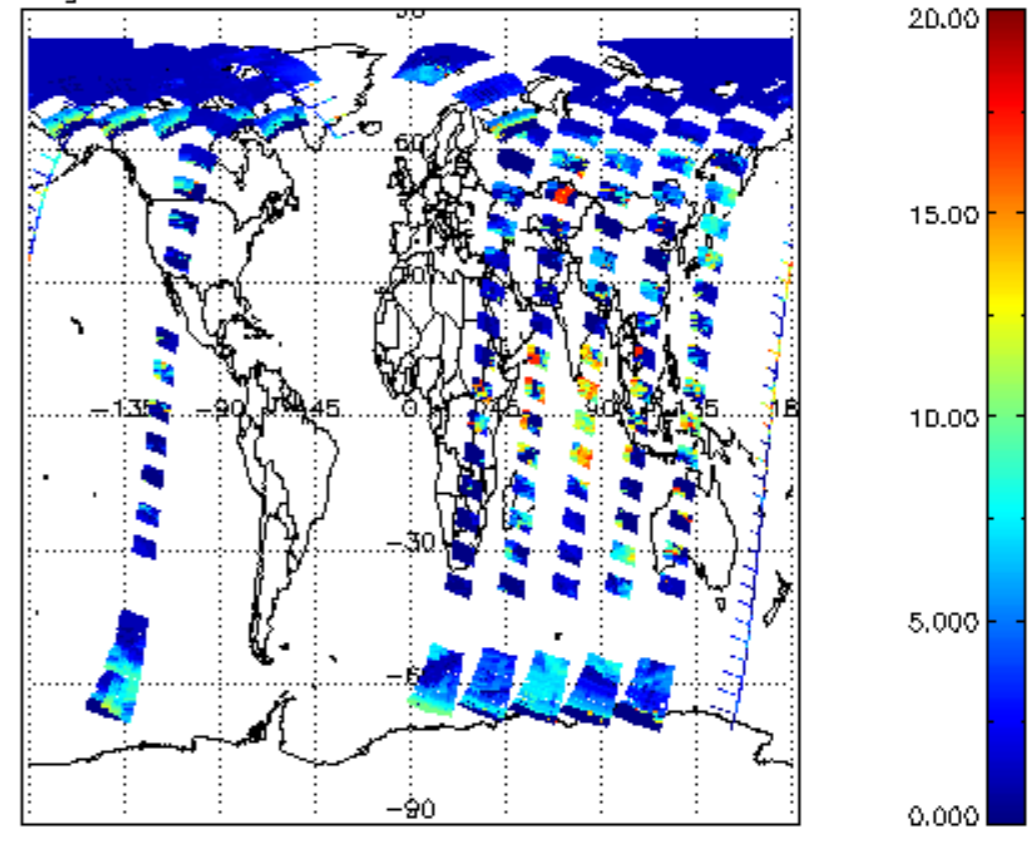
2.3 ADF monitoring

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

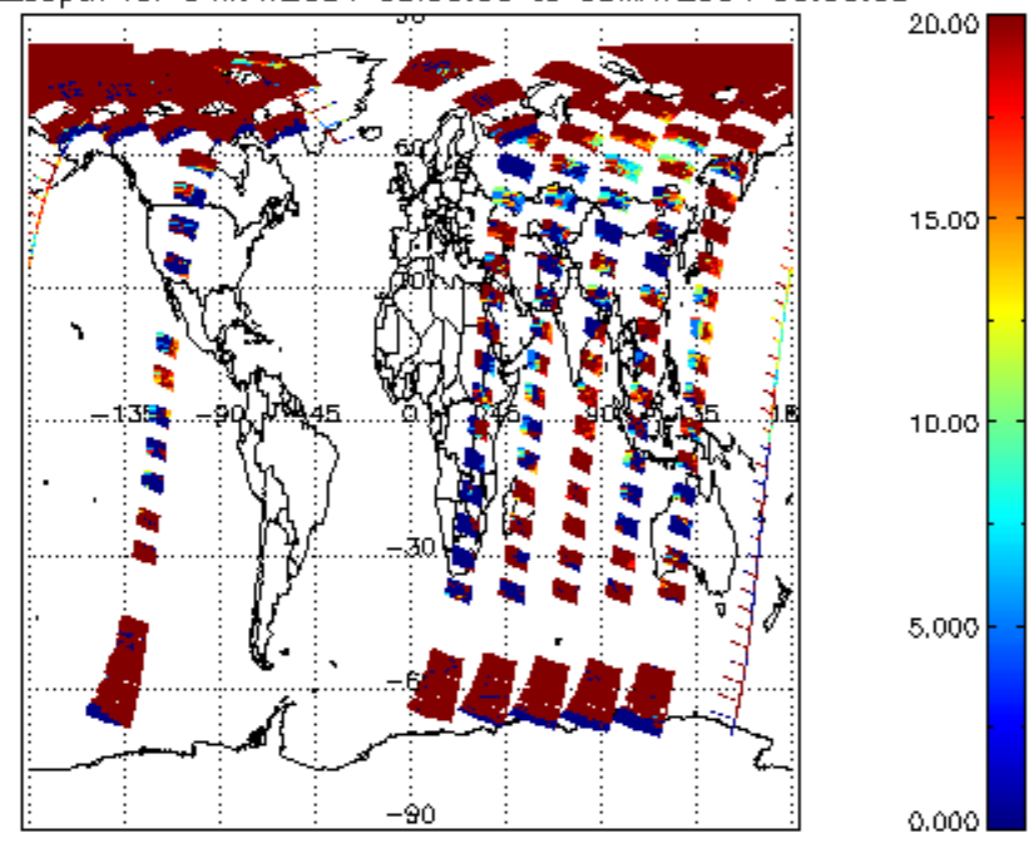
cl_frac for 04MAY2004 00:00:00 to 05MAY2004 00:00:00



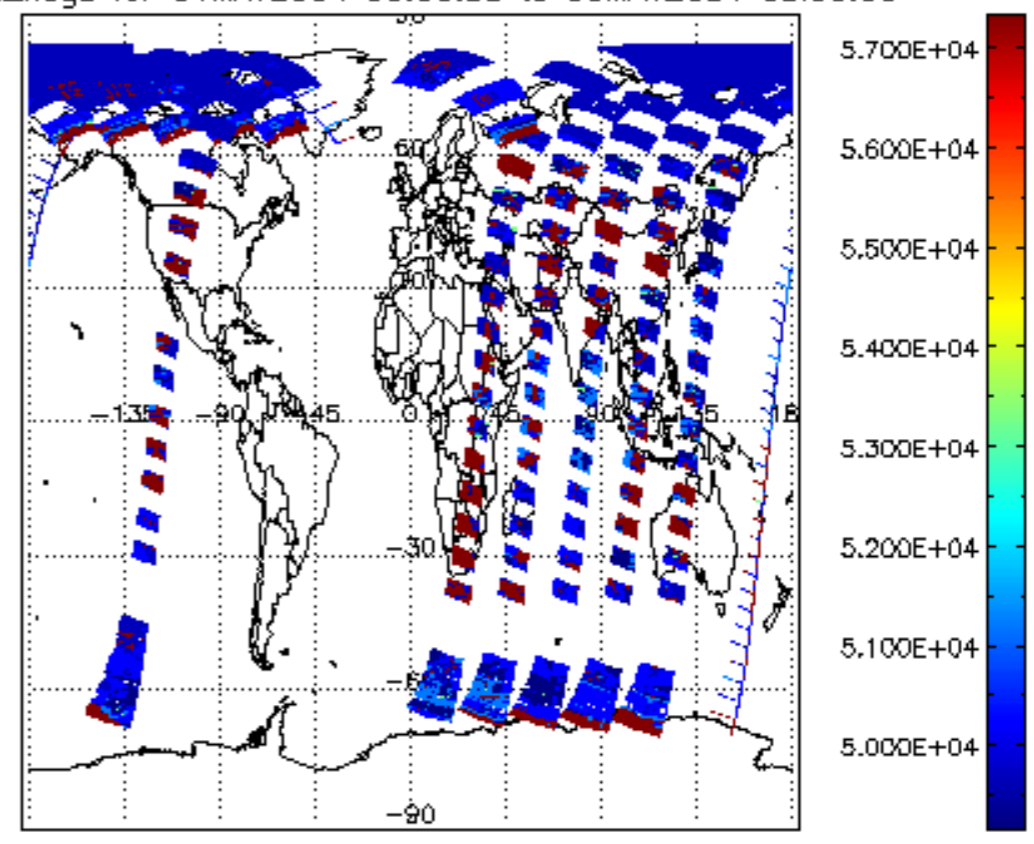
cl_top_height for 04MAY2004 00:00:00 to 05MAY2004 00:00:00

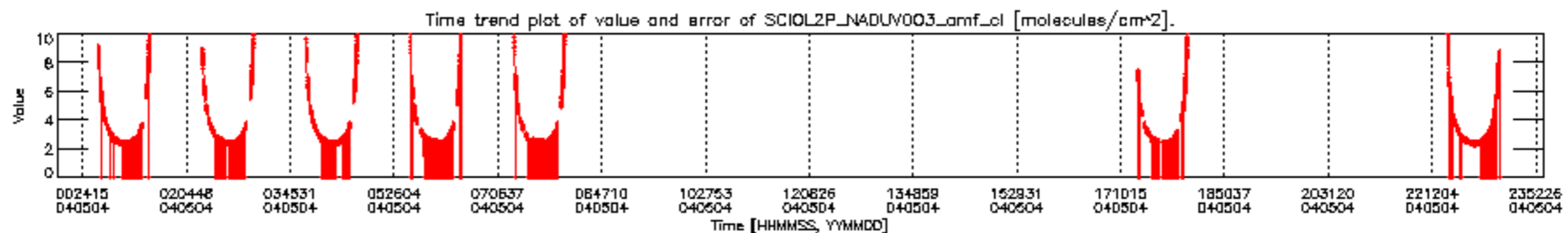
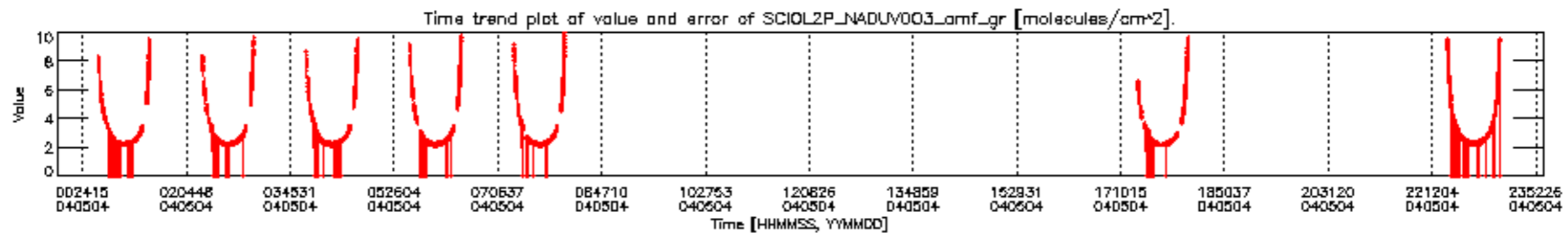
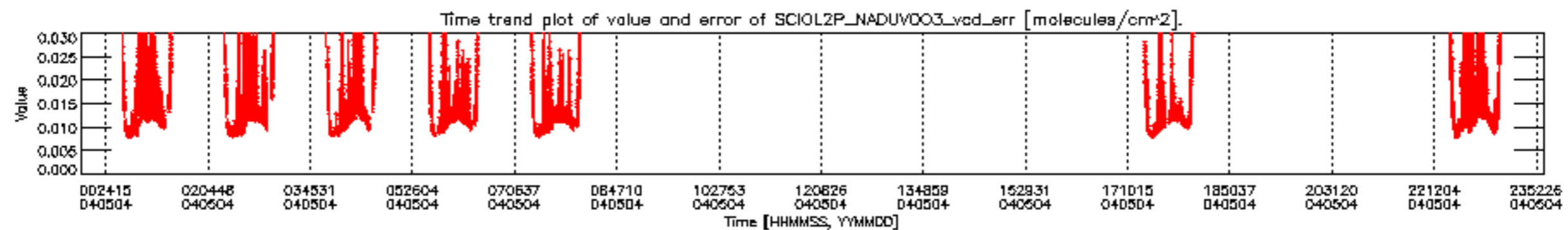
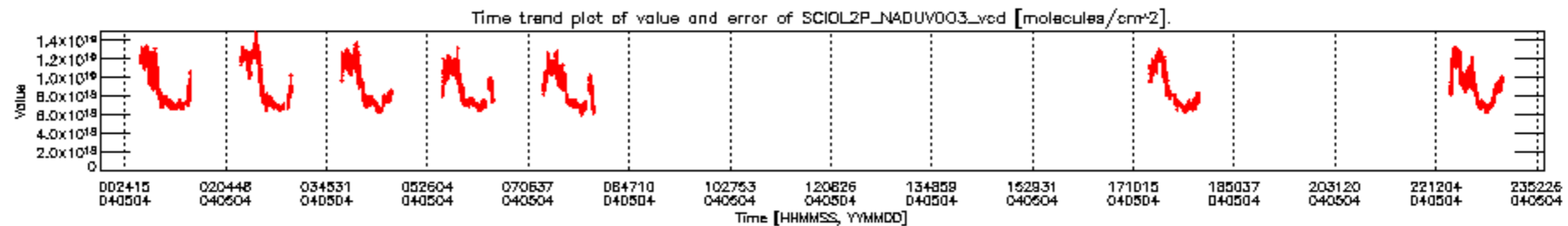


cl_opt_depth for 04MAY2004 00:00:00 to 05MAY2004 00:00:00

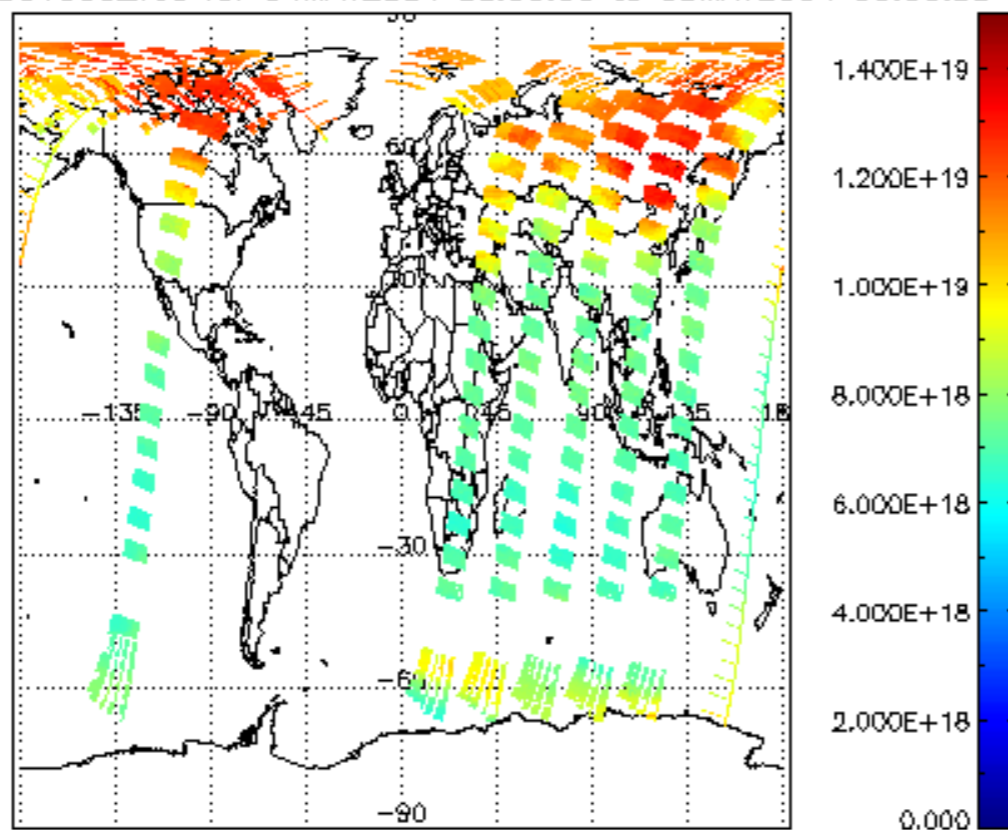


cloud_flags for 04MAY2004 00:00:00 to 05MAY2004 00:00:00

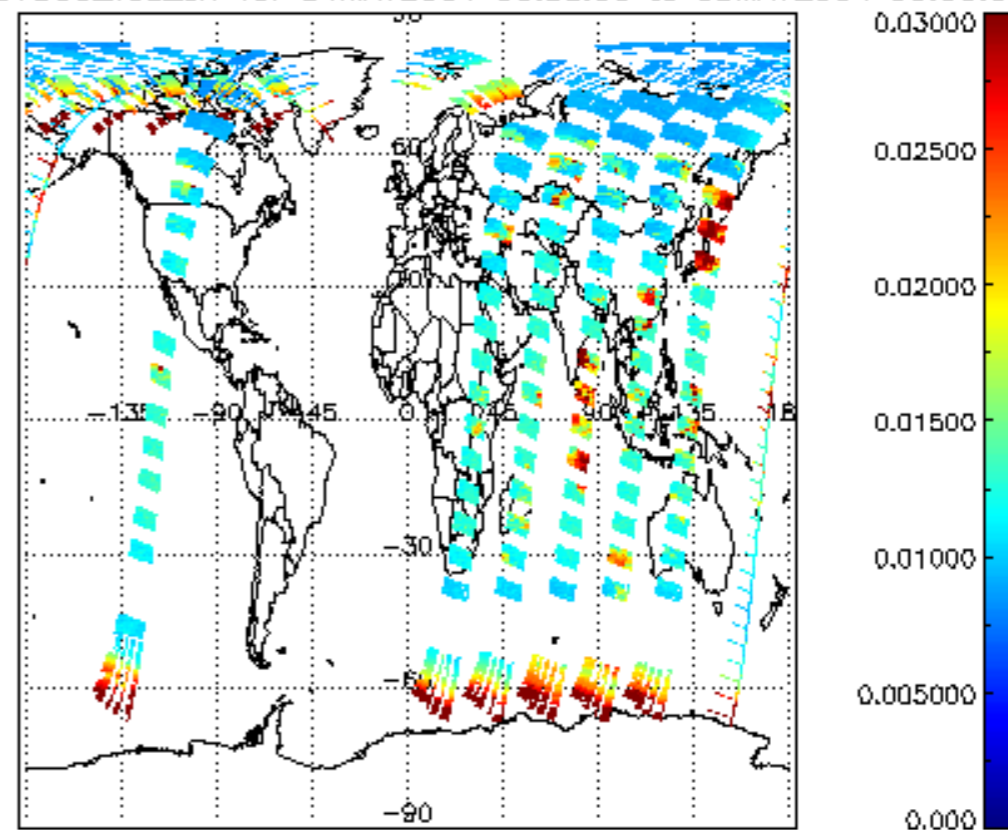




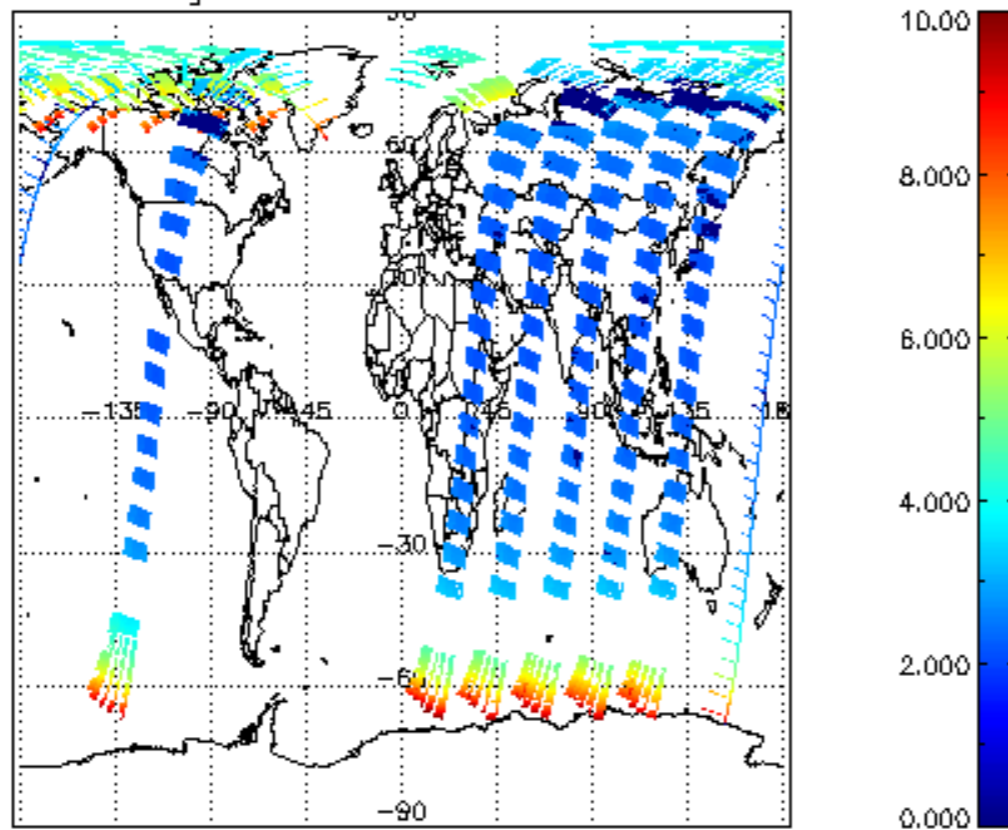
SCIOL2P_NADUV003_vcd for 04MAY2004 00:00:00 to 05MAY2004 00:00:00



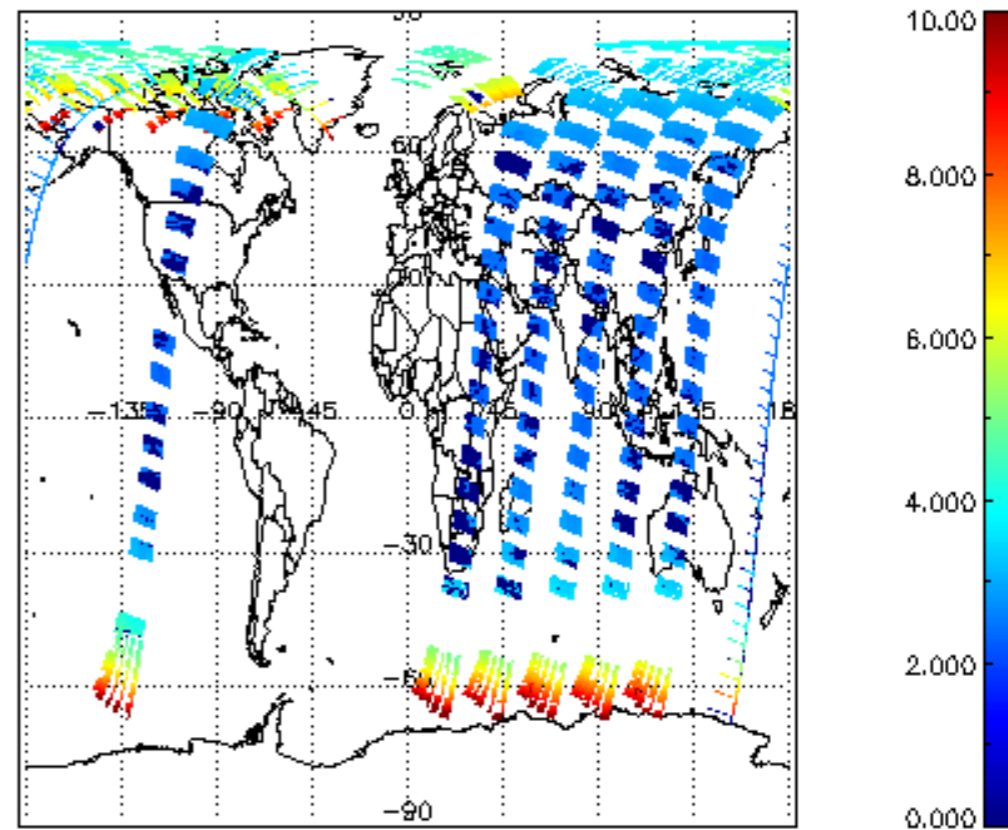
SCIOL2P_NADUV003_vcd_err for 04MAY2004 00:00:00 to 05MAY2004 00:00:00

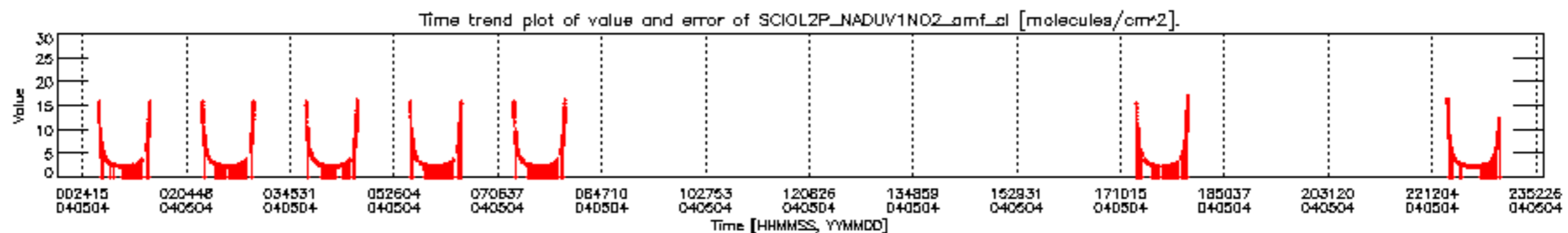
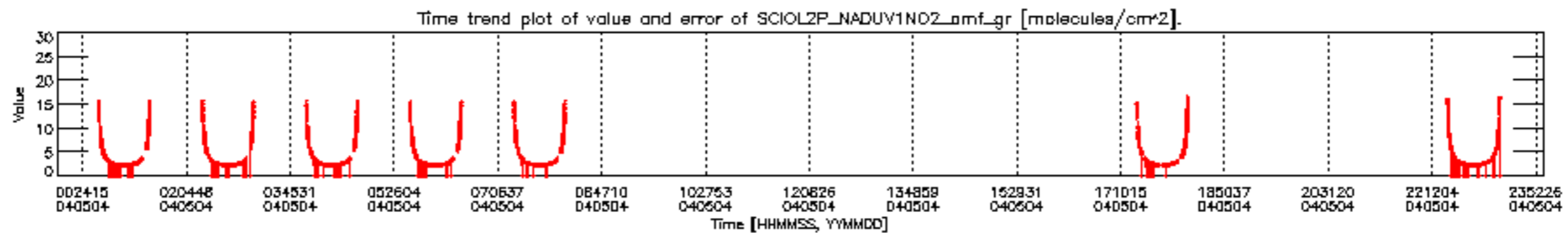
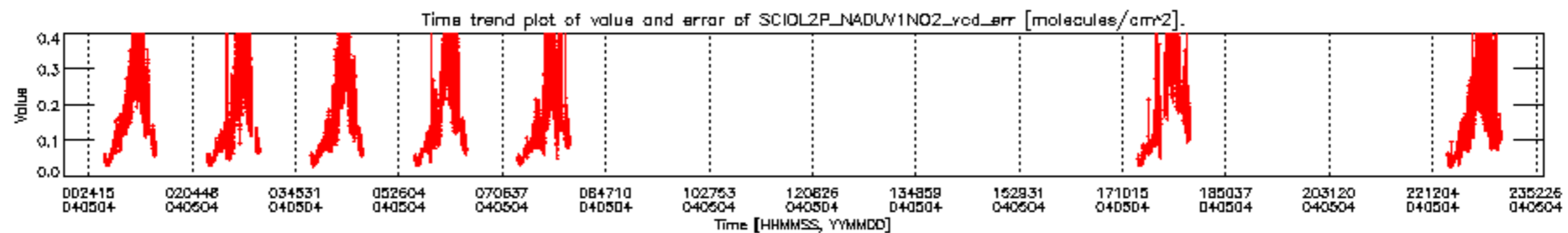
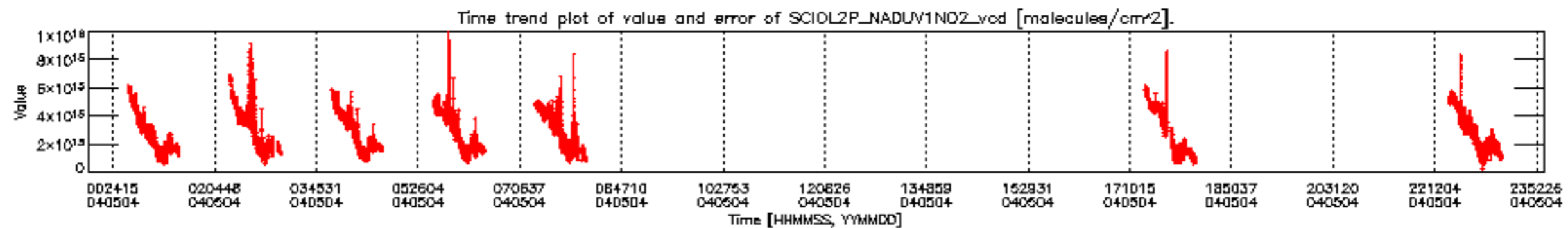


SCIOL2P_NADUV003_amf_gr for 04MAY2004 00:00:00 to 05MAY2004 00:00:00

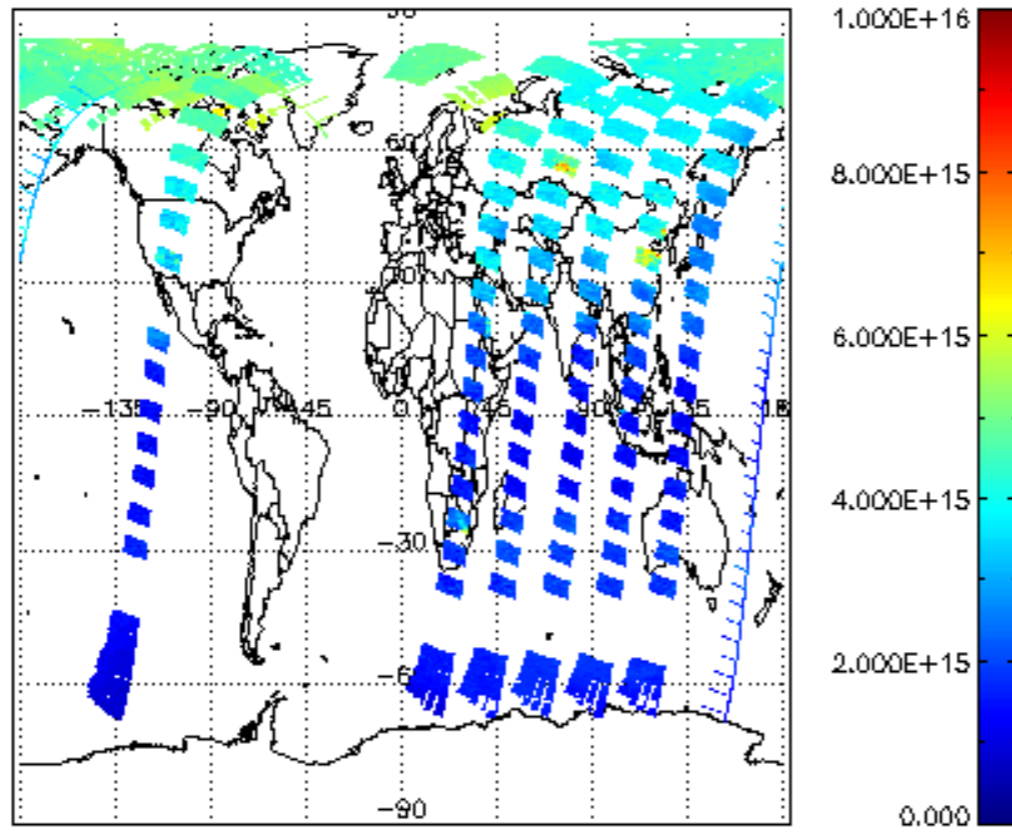


SCIOL2P_NADUV003_amf_cl for 04MAY2004 00:00:00 to 05MAY2004 00:00:00

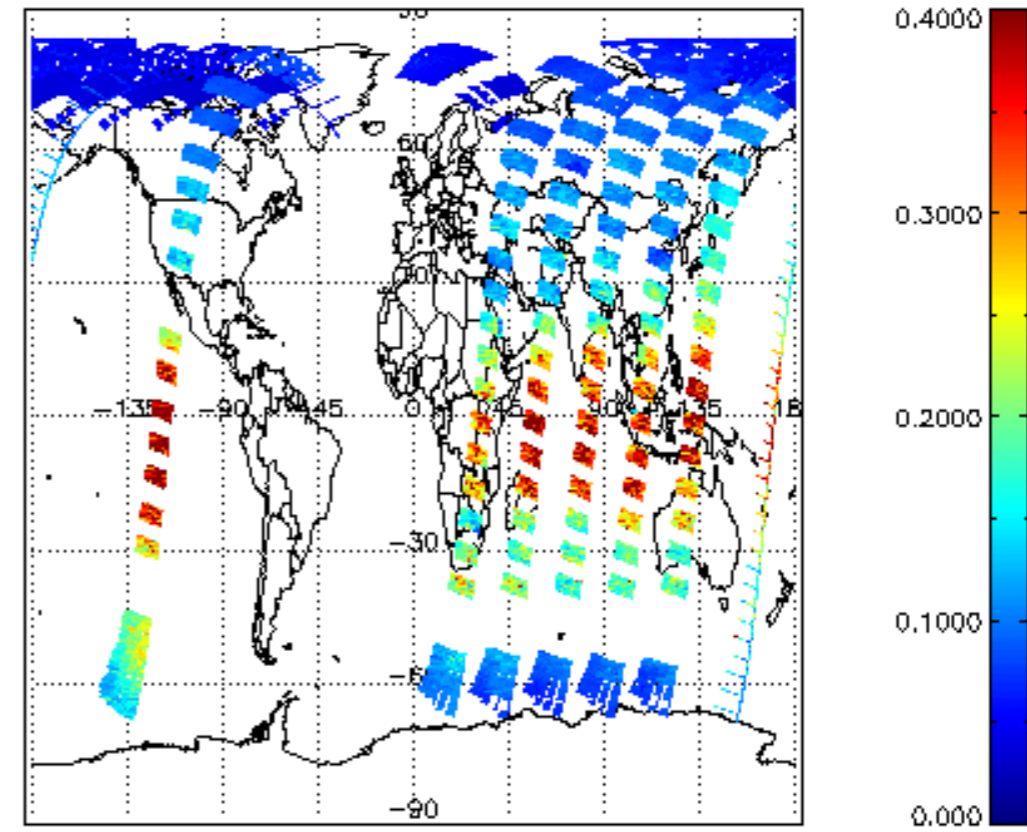




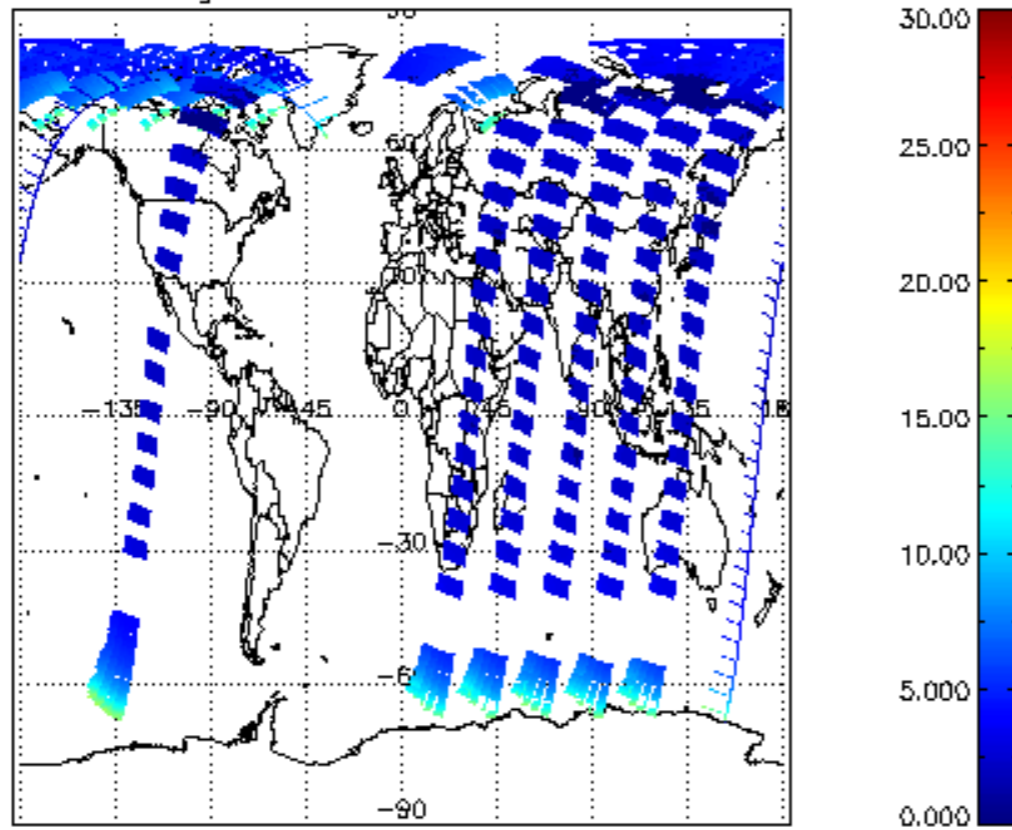
SCIOL2P_NADUV1NO2_vcd for 04MAY2004 00:00:00 to 05MAY2004 00:00:00



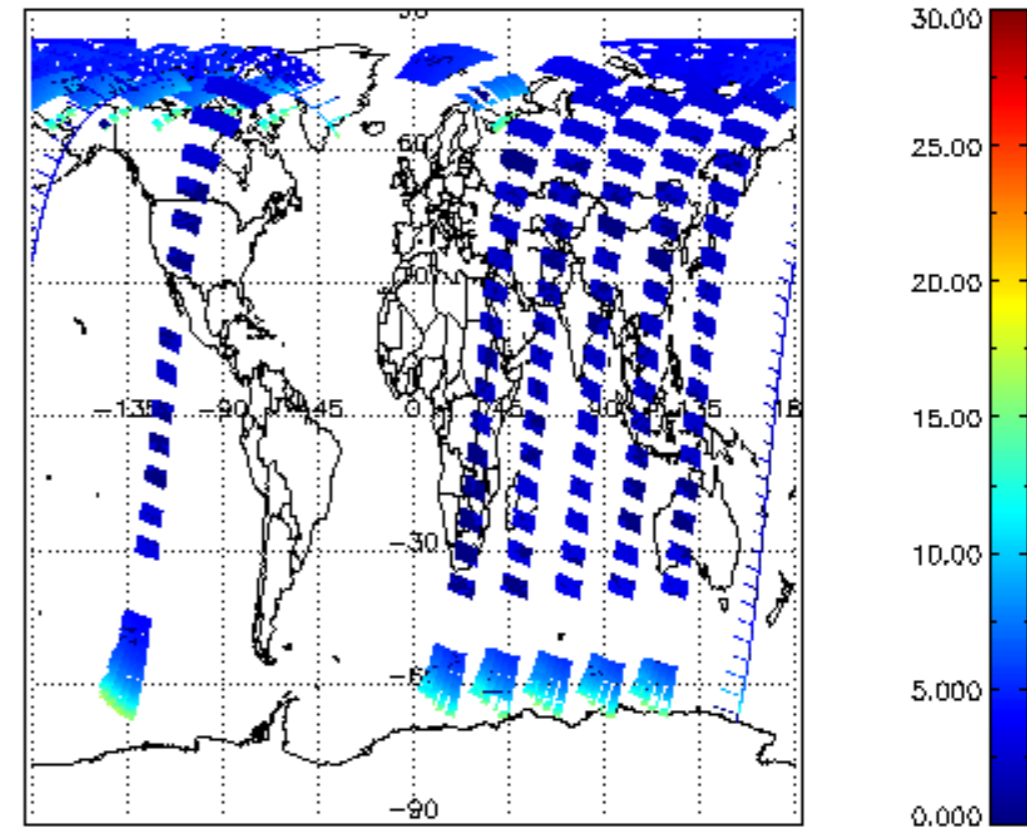
iCIOL2P_NADUV1NO2_vcd_err for 04MAY2004 00:00:00 to 05MAY2004 00:00:00



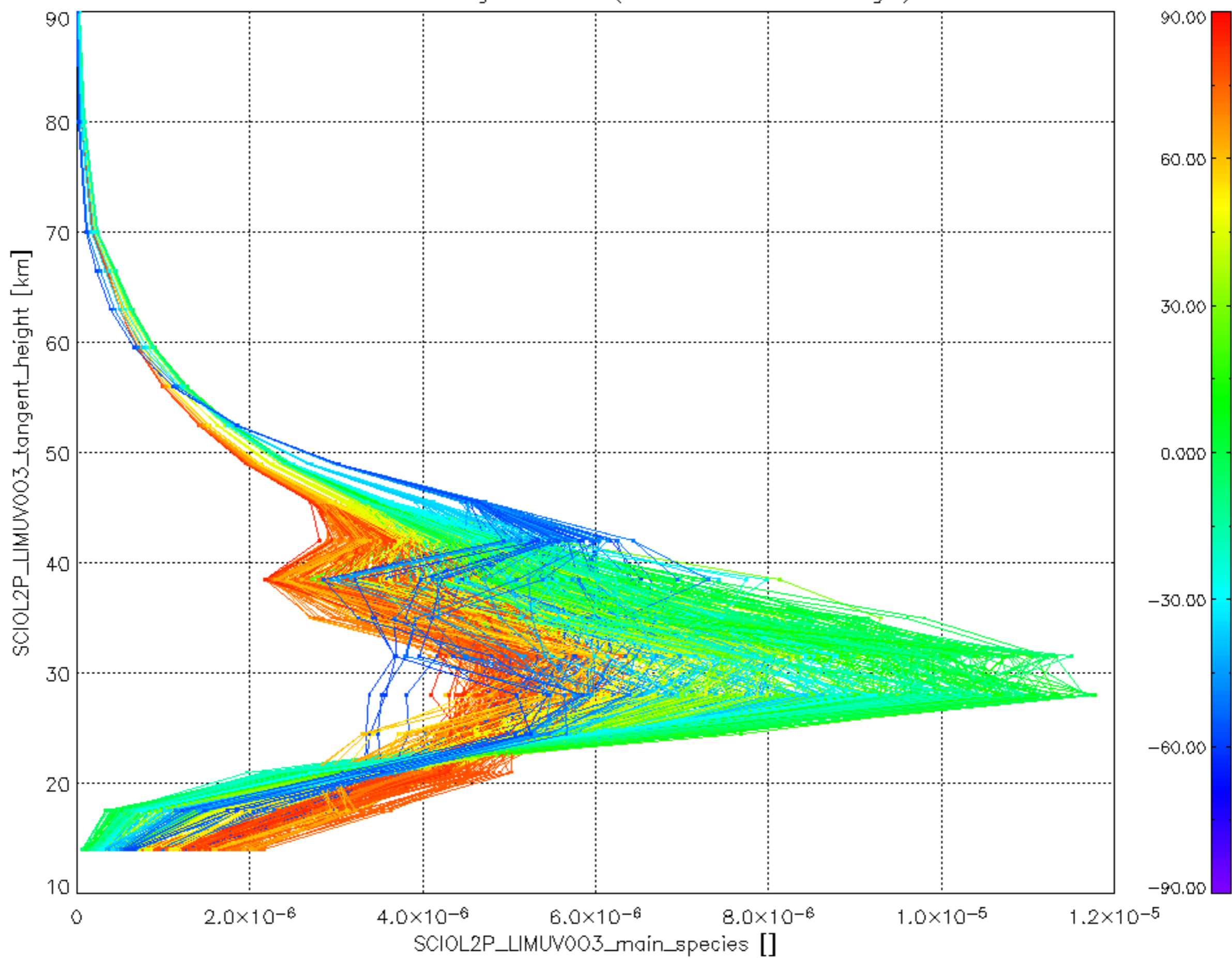
iCIOL2P_NADUV1NO2_amf_gr for 04MAY2004 00:00:00 to 05MAY2004 00:00:00



iCIOL2P_NADUV1NO2_amf_cl for 04MAY2004 00:00:00 to 05MAY2004 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).

