

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	24JUL2009 06:03:34
Data source version	SCIA-OL/3.01-R
Processing scope for products	06JUL2009 00:00:00 to 07JUL2009 00:00:00
Start time of first product within scope	05JUL2009 23:23:26
Stop time of last product within scope	06JUL2009 23:47:31
Total number of level 2 products	13
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__2PRDPA20090705_232326_000033442080_00288_38418_3254.N1	05JUL2009 23:23:26	06JUL2009 00:19:11	0	GOOD
1	SCI_OL__2PRDPA20090706_010402_000033412080_00289_38419_3255.N1	06JUL2009 01:04:02	06JUL2009 01:59:44	0	GOOD
2	SCI_OL__2PRDPA20090706_024438_000033382080_00290_38420_3256.N1	06JUL2009 02:44:38	06JUL2009 03:40:16	0	GOOD
3	SCI_OL__2PRDPA20090706_042514_000033342080_00291_38421_3257.N1	06JUL2009 04:25:14	06JUL2009 05:20:49	0	GOOD
4	SCI_OL__2PRDPA20090706_060551_000033302080_00292_38422_3259.N1	06JUL2009 06:05:51	06JUL2009 07:01:21	0	GOOD
5	SCI_OL__2PRDPA20090706_074627_000033252080_00293_38423_3260.N1	06JUL2009 07:46:27	06JUL2009 08:41:52	0	GOOD
6	SCI_OL__2PRDPA20090706_092703_000033122080_00294_38424_3261.N1	06JUL2009 09:27:03	06JUL2009 10:22:15	0	GOOD
7	SCI_OL__2PRDPA20090706_110738_000033252080_00295_38425_3262.N1	06JUL2009 11:07:38	06JUL2009 12:03:04	0	GOOD
8	SCI_OL__2PRDPA20090706_124814_000033122080_00296_38426_3267.N1	06JUL2009 12:48:14	06JUL2009 13:43:27	0	GOOD
9	SCI_OL__2PRDPA20090706_142850_000033252080_00297_38427_3268.N1	06JUL2009 14:28:50	06JUL2009 15:24:16	0	GOOD
10	SCI_OL__2PRDPA20090706_160926_000033252080_00298_38428_3269.N1	06JUL2009 16:09:26	06JUL2009 17:04:52	0	GOOD
11	SCI_OL__2PRDPA20090706_175017_000033312080_00299_38429_3270.N1	06JUL2009 17:50:17	06JUL2009 18:45:48	0	GOOD
12	SCI_OL__2PRDPA20090706_225609_000030812080_00302_38432_3271.N1	06JUL2009 22:56:09	06JUL2009 23:47:31	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: 124540

Total number of cloud data DSRs with good quality flag (=0): 124540 (100.0 %)

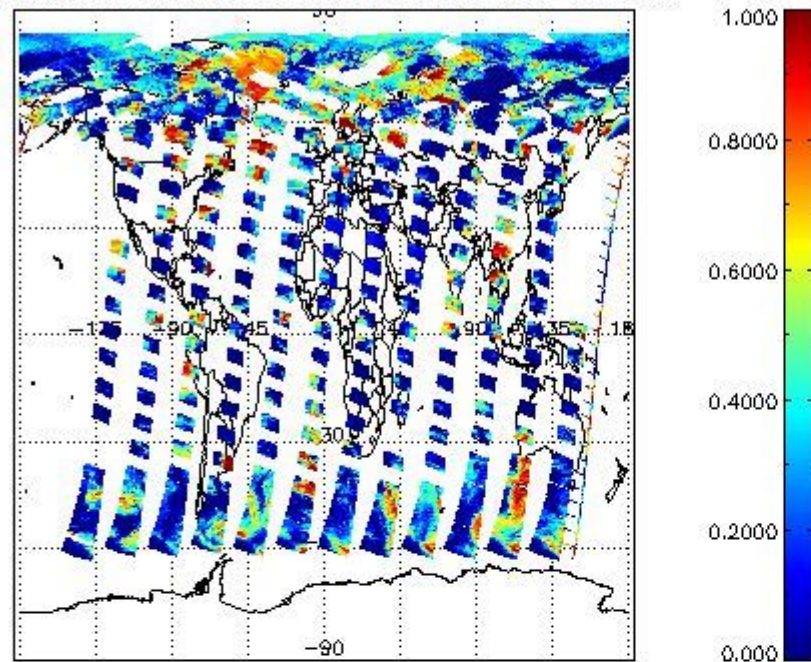
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	124540	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	124540	0.18111	0.12500	0.12500	0.25000	0.062172	s
CL_FRAC	124540	0.29163	0.21844	0.0000	1.0000	0.28736	-
CL_FRAC_ERR	124540	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	124540	5.7954	4.0000	4.0000	8.0000	1.9895	
PMD_READ_CL[0]	124540	0.23916	0.0000	0.0000	8.0000	1.2084	-
PMD_READ_CL[1]	124540	1.8396	0.0000	0.0000	8.0000	2.7182	-
CL_TOP_HEIGHT	109797	3.3783	1.1210	0.0000	17.000	3.9994	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	109797	55.618	58.254	0.0000	101.00	45.239	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	124540	11100000	11100000	11100000	11100000	0.0000	flags
CLOUD_FLAGS	124540	11001101	11000100	11000000	11100000	3596.4	flags
AERO_ABSO_IND	124540	3.7750	4.6793	-0.57663	16.237	2.9022	
AERO_IND_DIAG	124540	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	124540	01010011	00000000	00000000	11000000	24375.	flags

Time and geolocation plots:

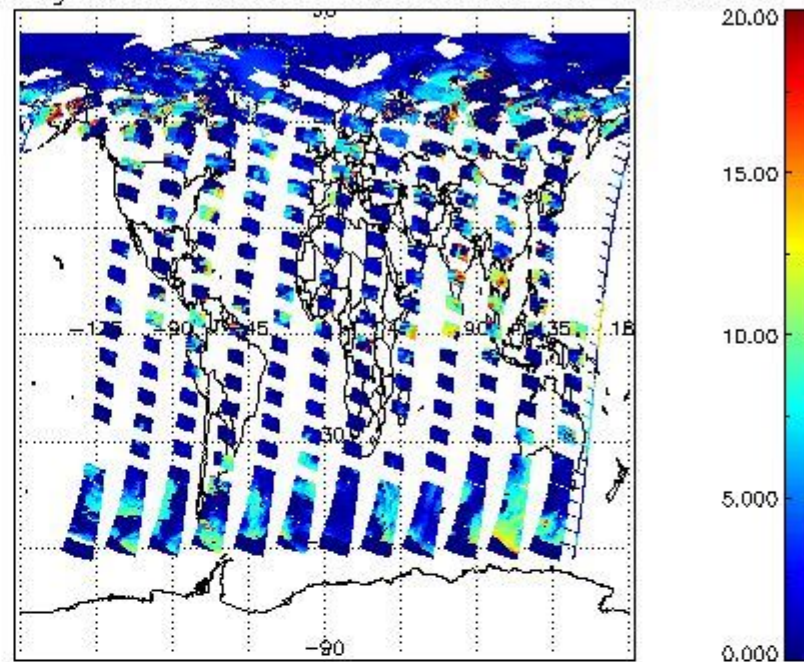
Plots are available for the following parameters:

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

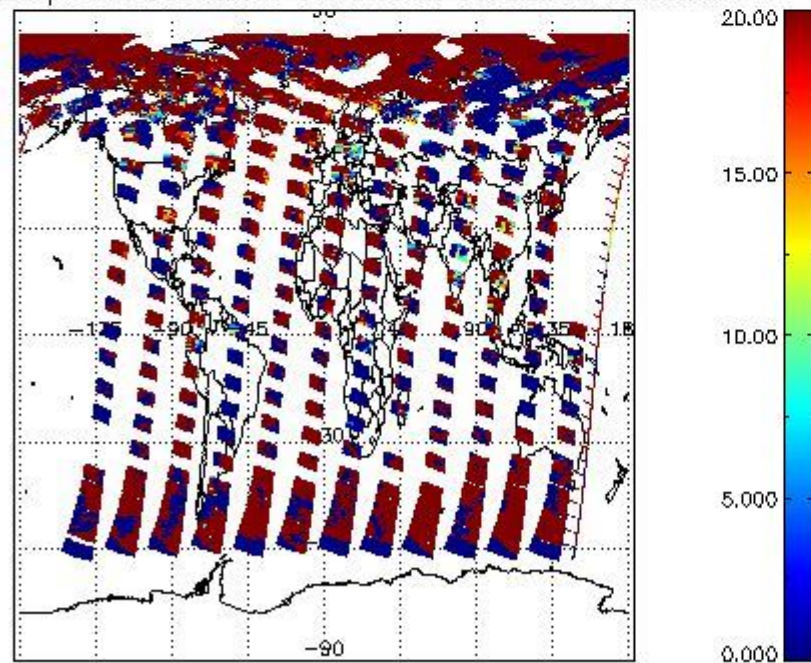
cL_frac for 06JUL2009 00:00:00 to 07JUL2009 00:00:00



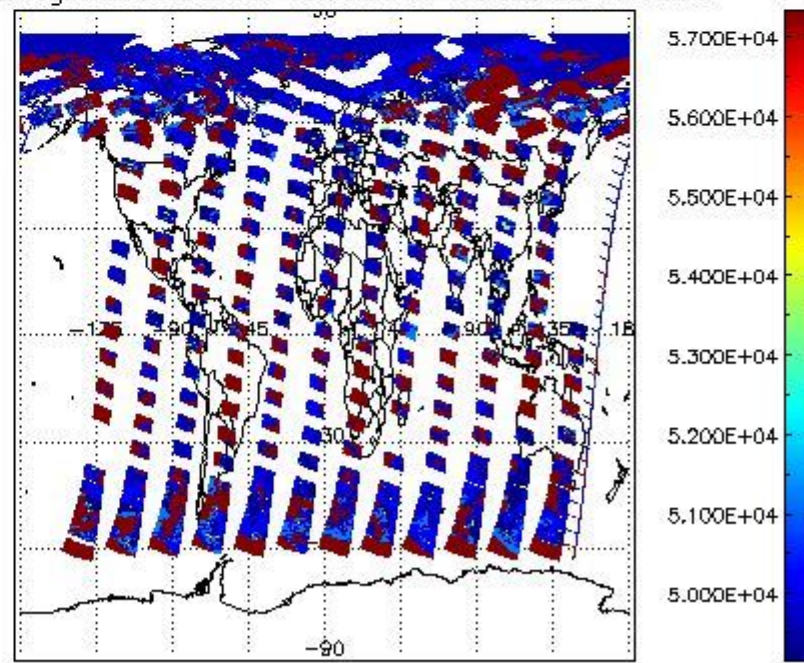
cL_top_height for 06JUL2009 00:00:00 to 07JUL2009 00:00:00



cL_opt_depth for 06JUL2009 00:00:00 to 07JUL2009 00:00:00



cloud_flags for 06JUL2009 00:00:00 to 07JUL2009 00:00:00



2.2.2 Nadir

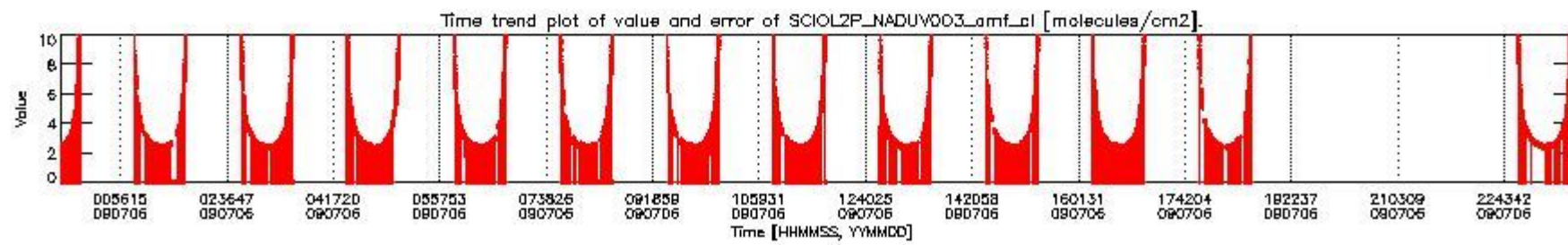
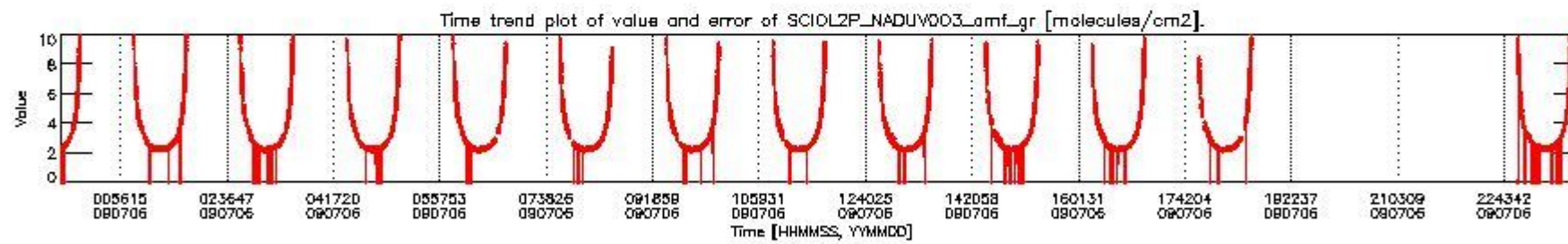
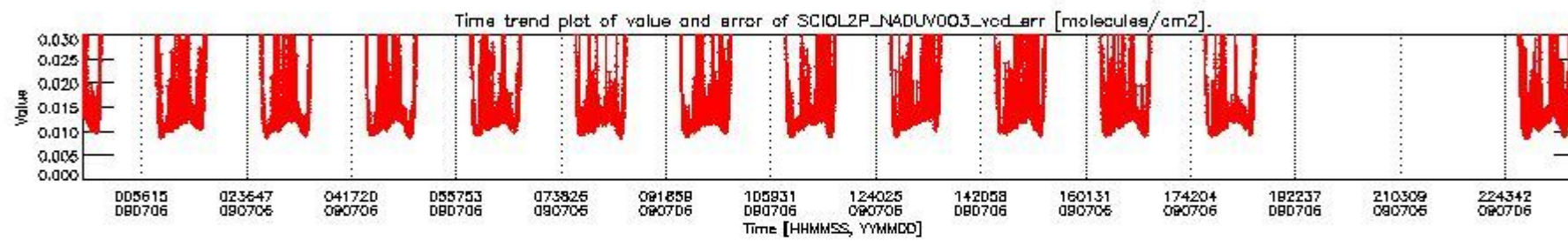
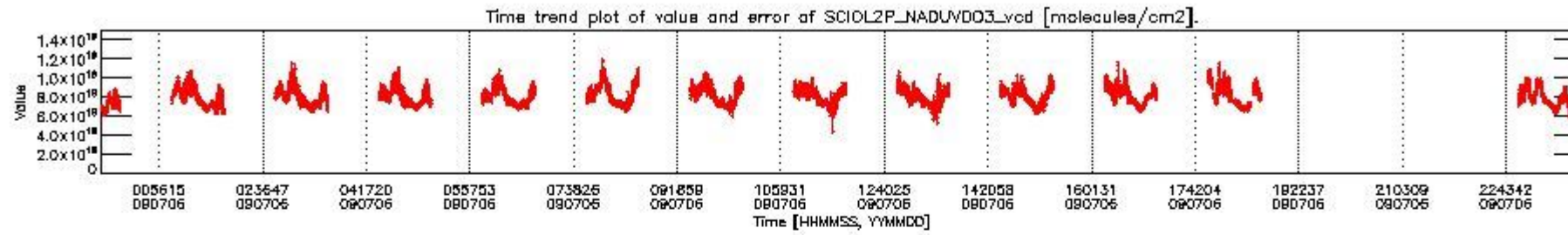
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

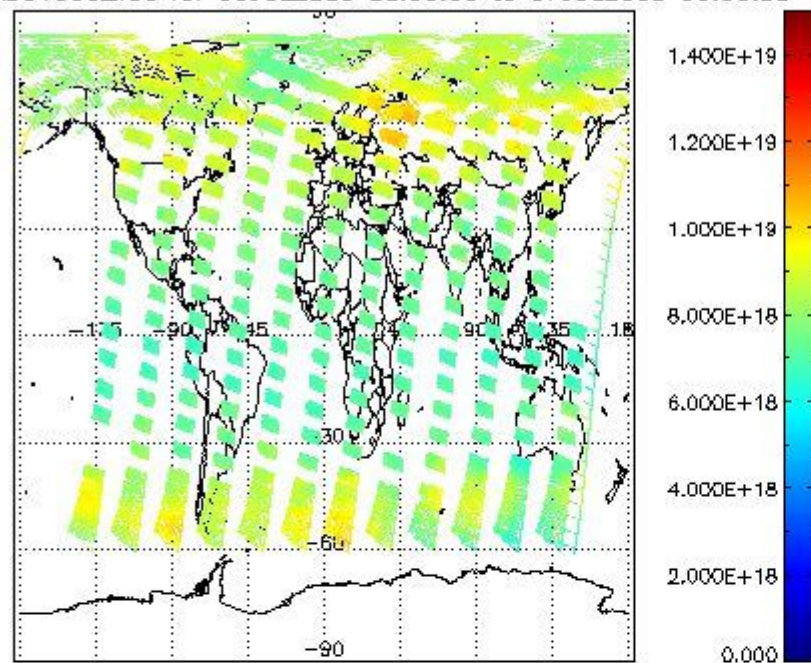
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

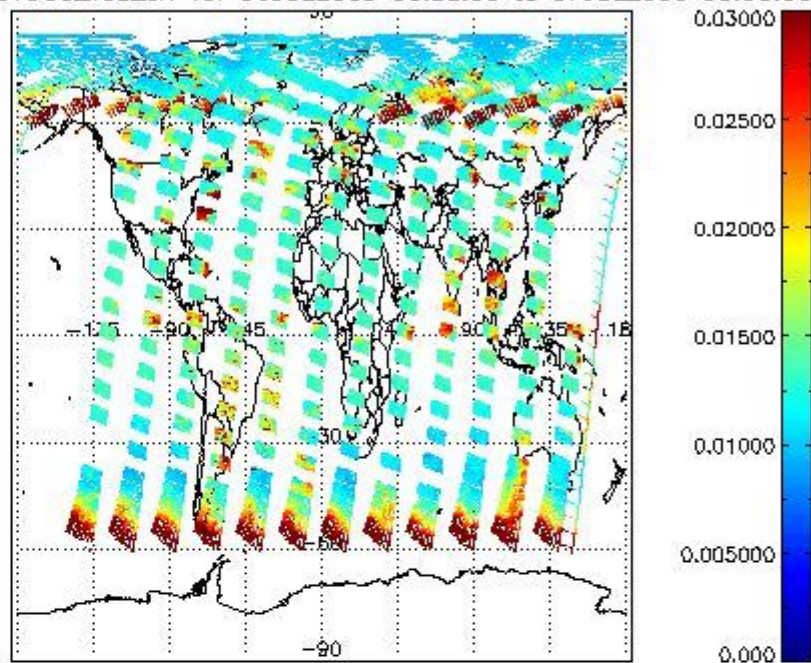
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



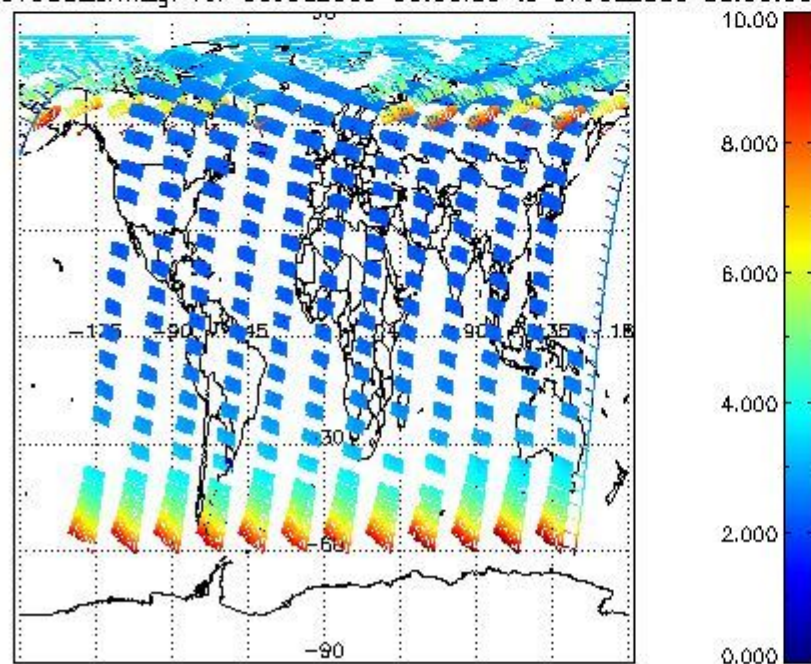
SCIOL2P_NADUV003_vcd for 06JUL2009 00:00:00 to 07JUL2009 00:00:00



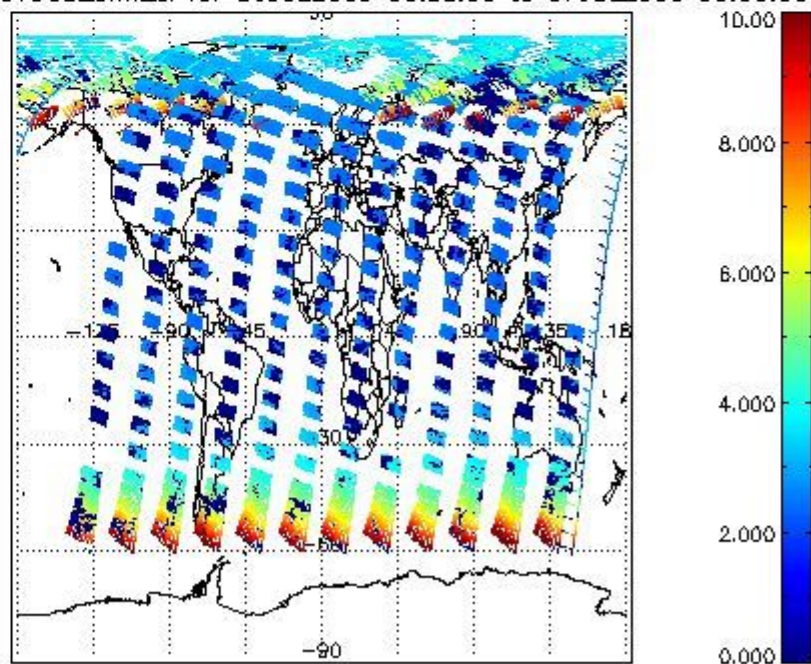
SCIOL2P_NADUV003_vcd_err for 06JUL2009 00:00:00 to 07JUL2009 00:00:00

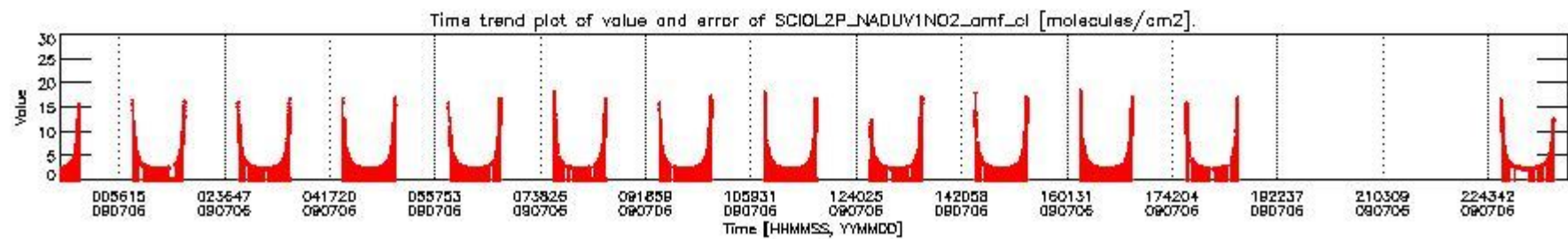
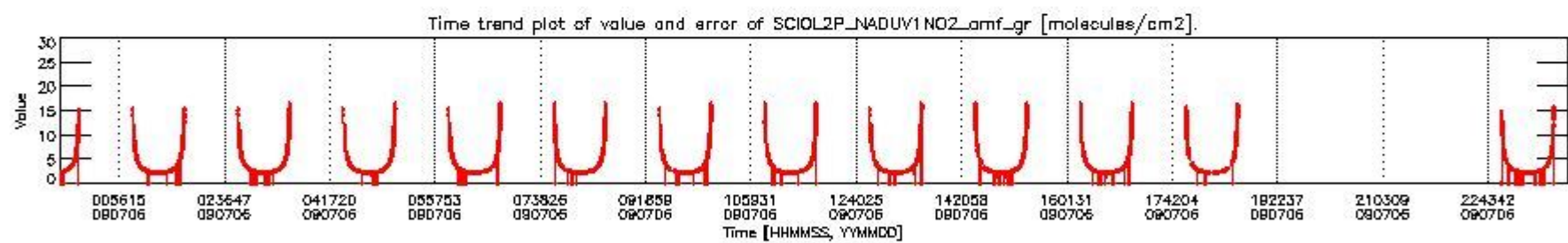
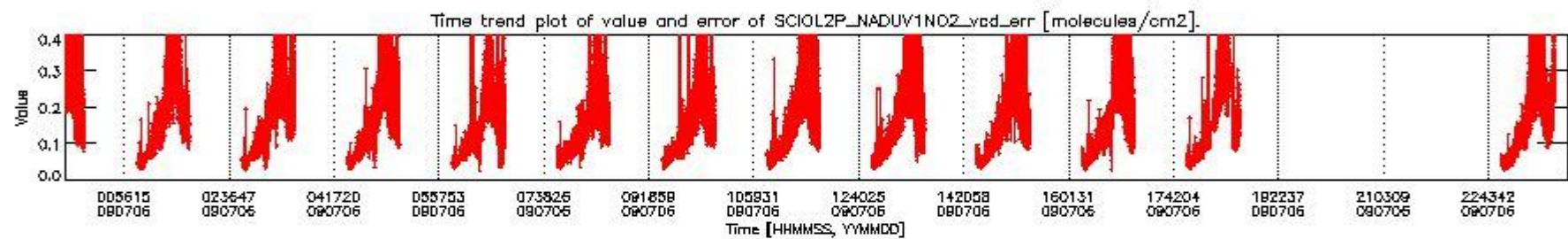
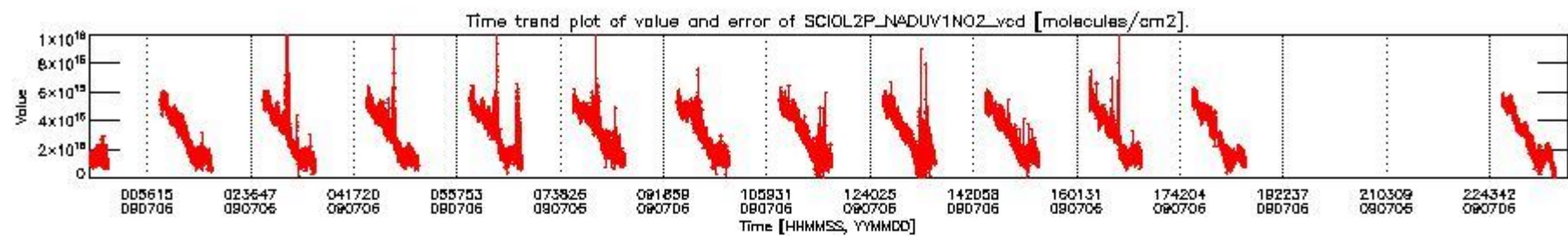


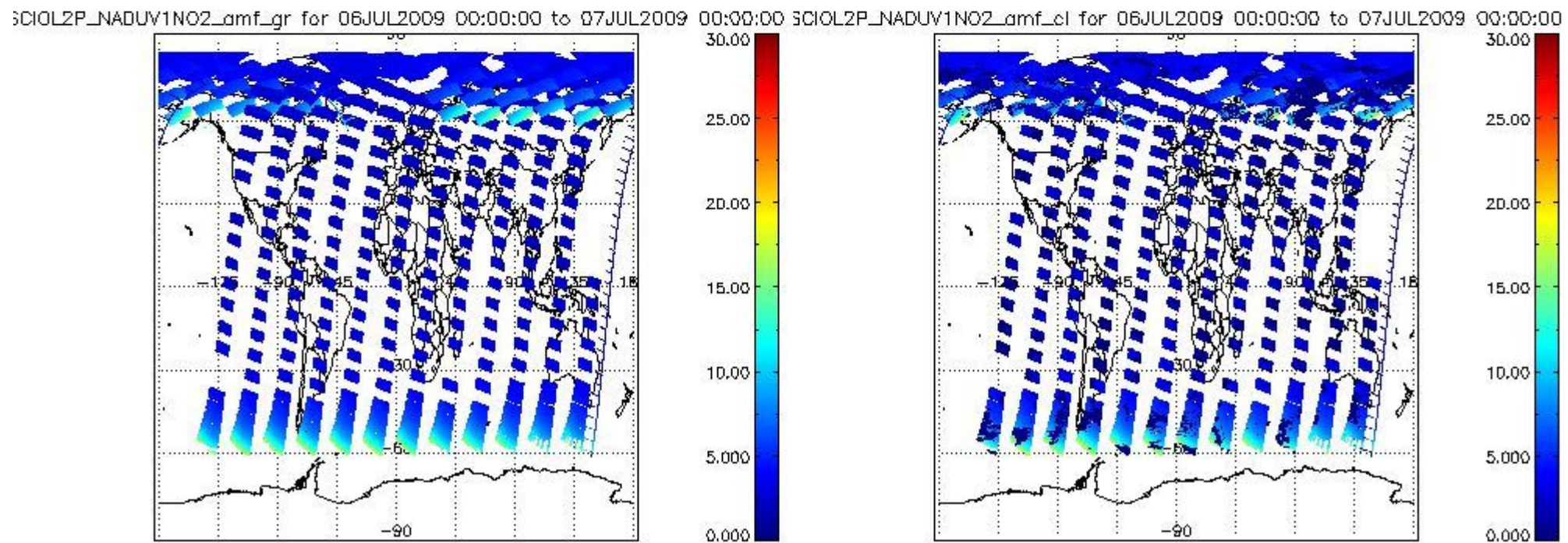
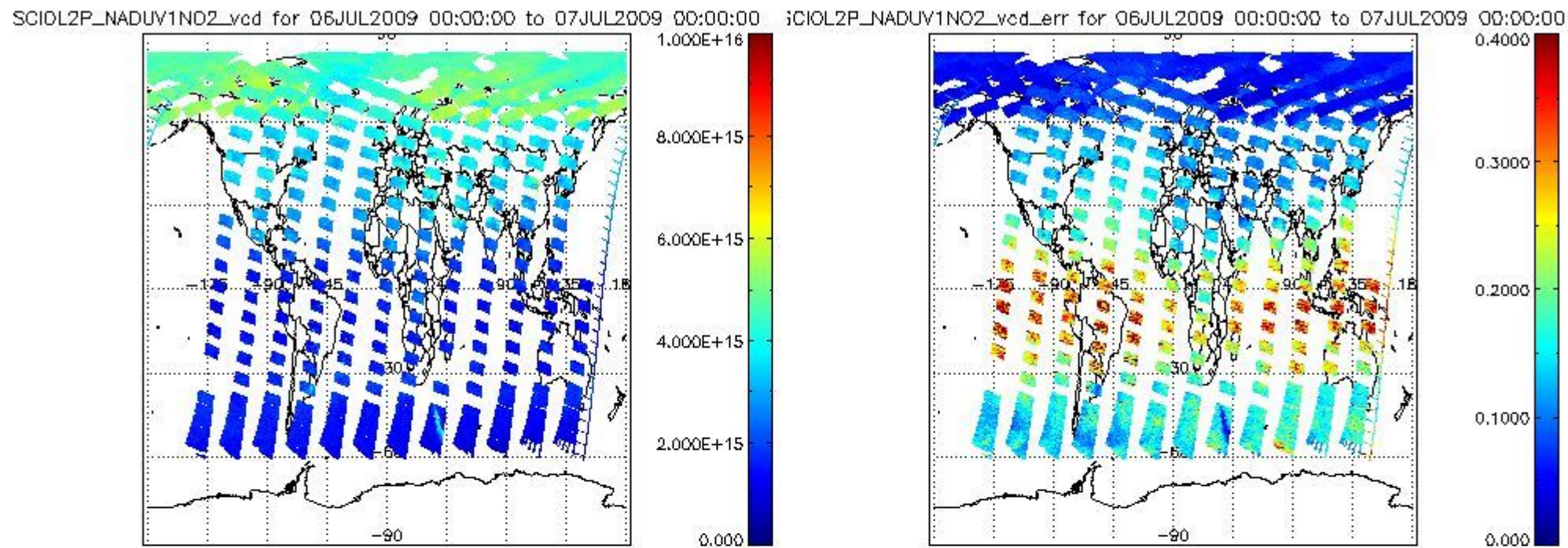
SCIOL2P_NADUV003_amf_gr for 06JUL2009 00:00:00 to 07JUL2009 00:00:00



SCIOL2P_NADUV003_amf_cl for 06JUL2009 00:00:00 to 07JUL2009 00:00:00







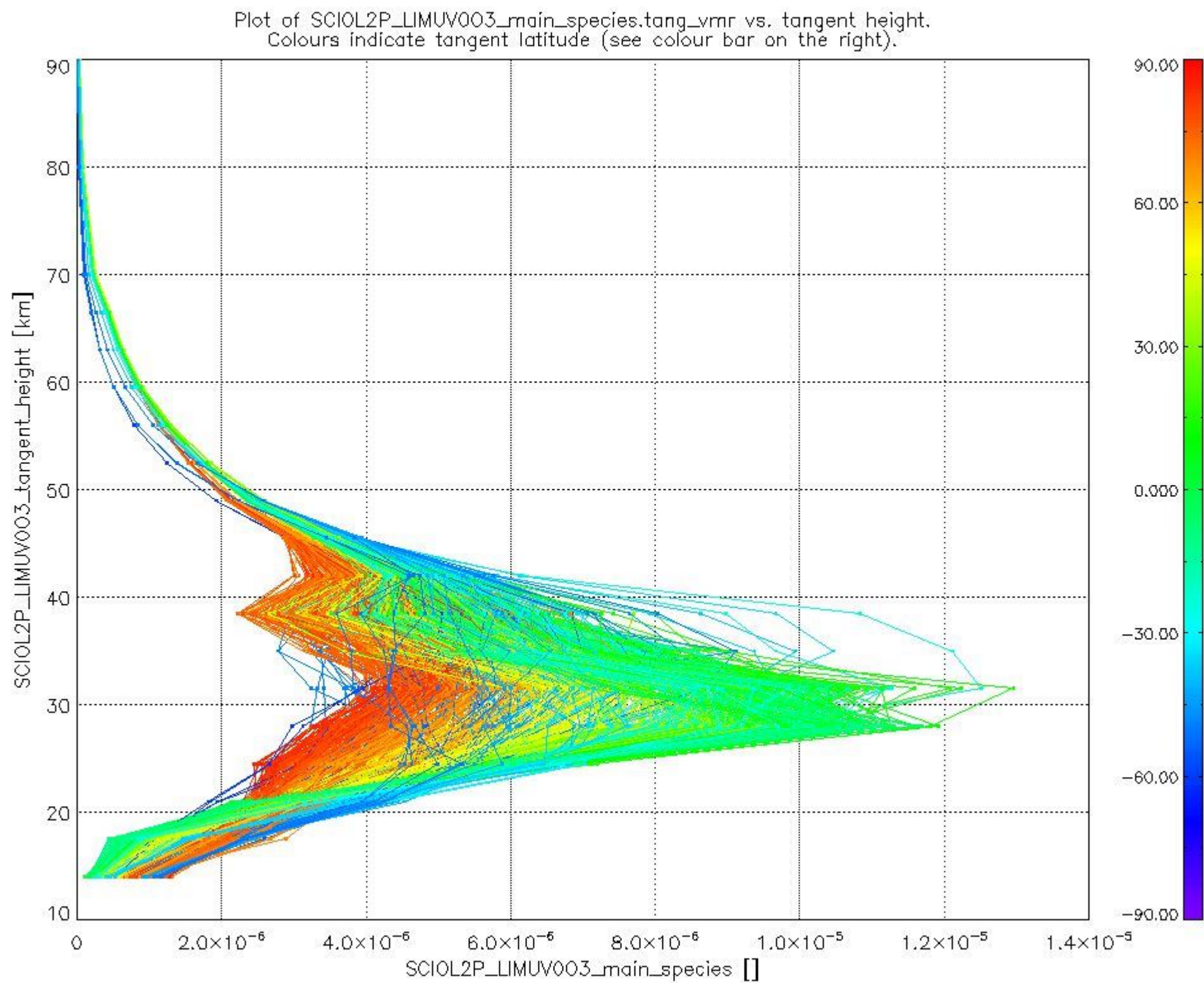
2.2.3 Limb

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

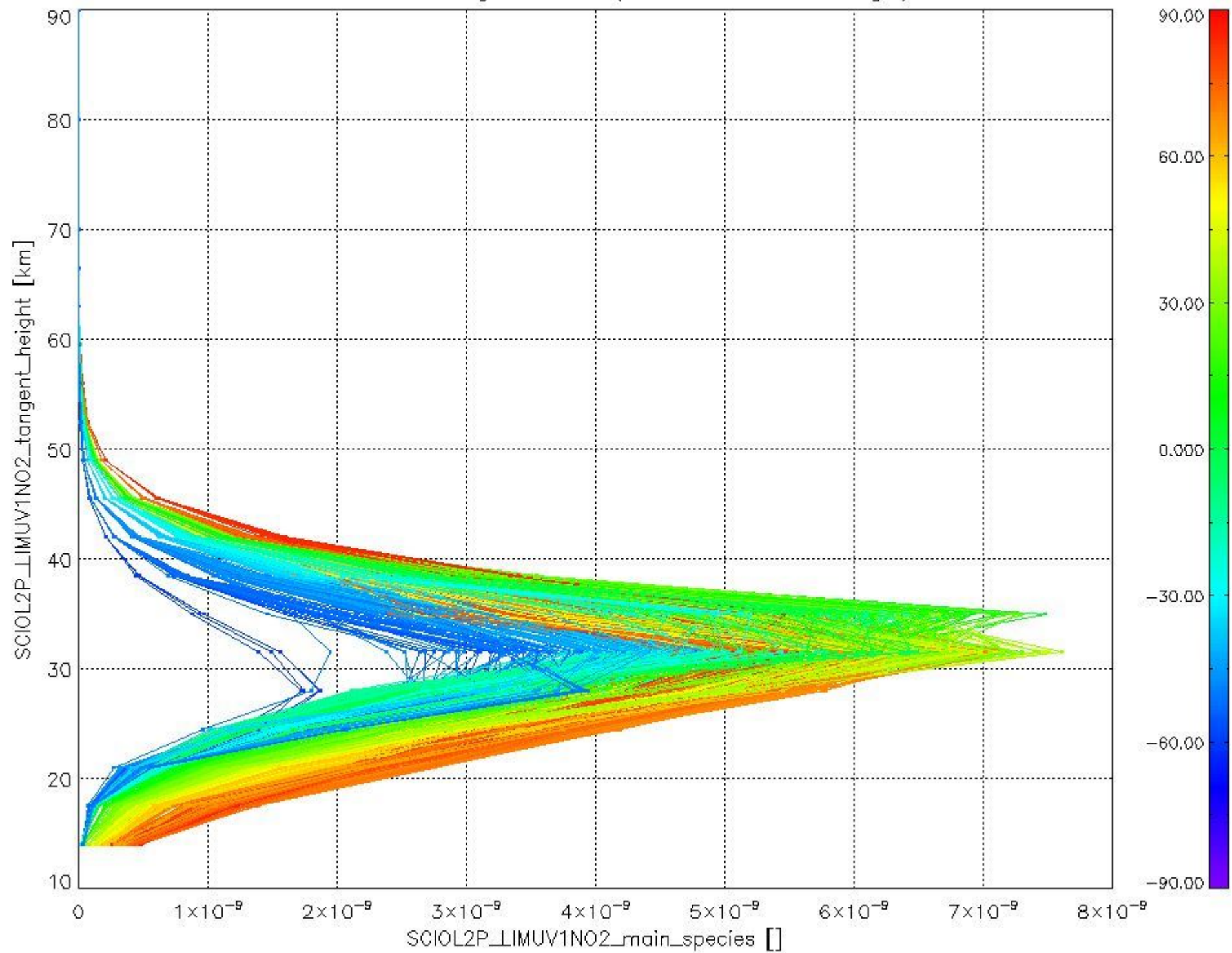
The following data items are currently included into this section:

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.



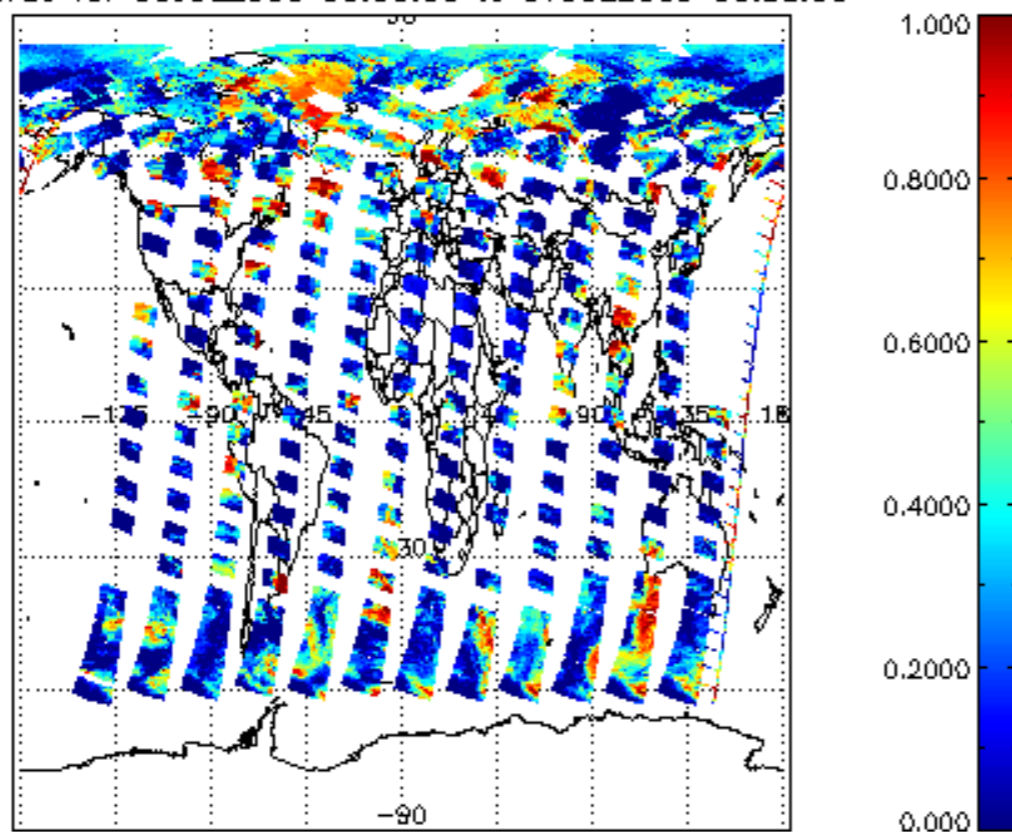
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



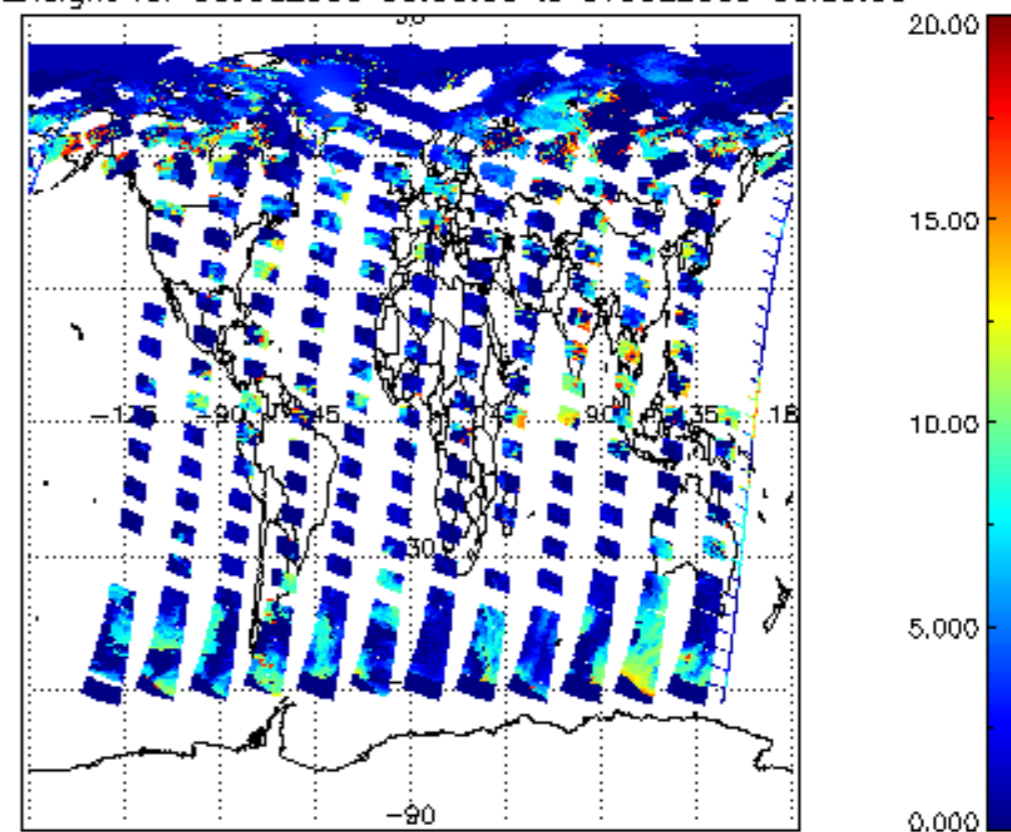
2.3 ADF monitoring

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

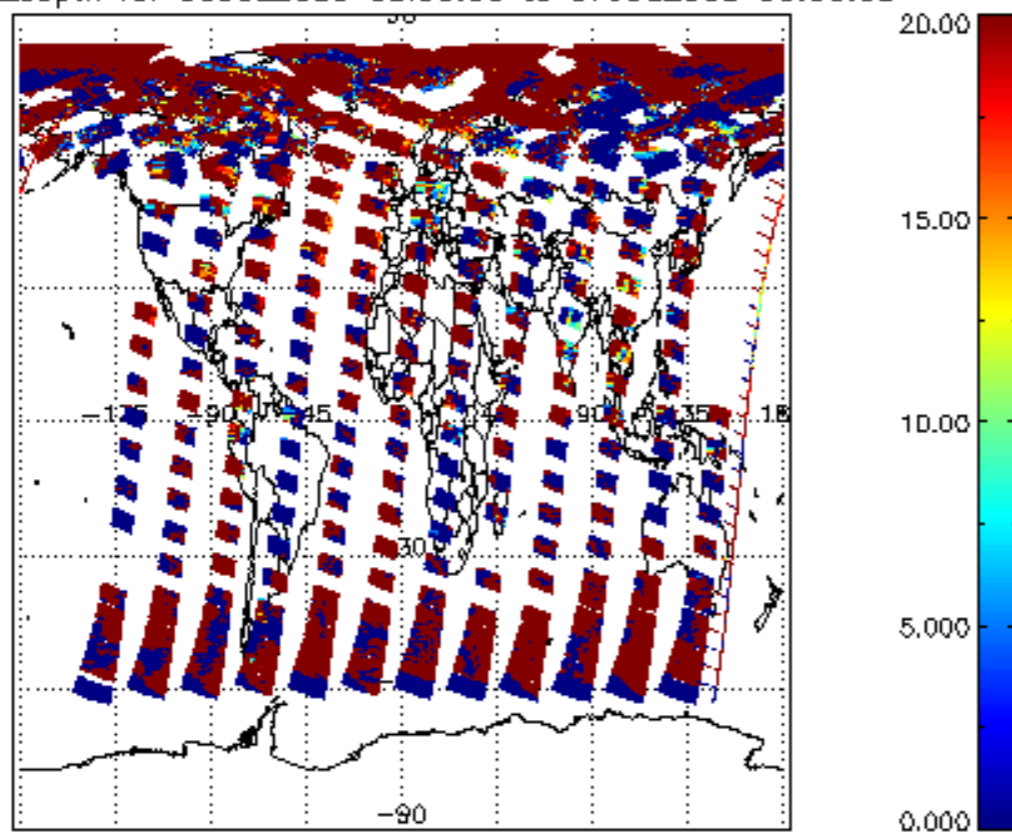
cl_frac for 06JUL2009 00:00:00 to 07JUL2009 00:00:00



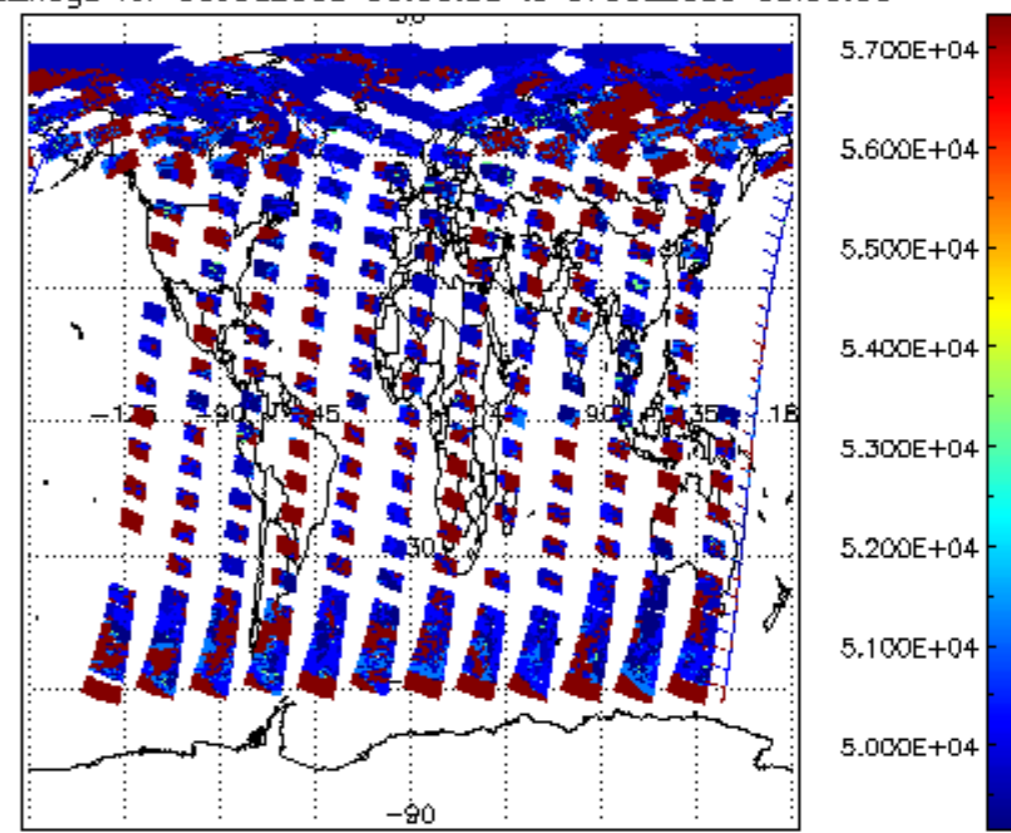
cl_top_height for 06JUL2009 00:00:00 to 07JUL2009 00:00:00

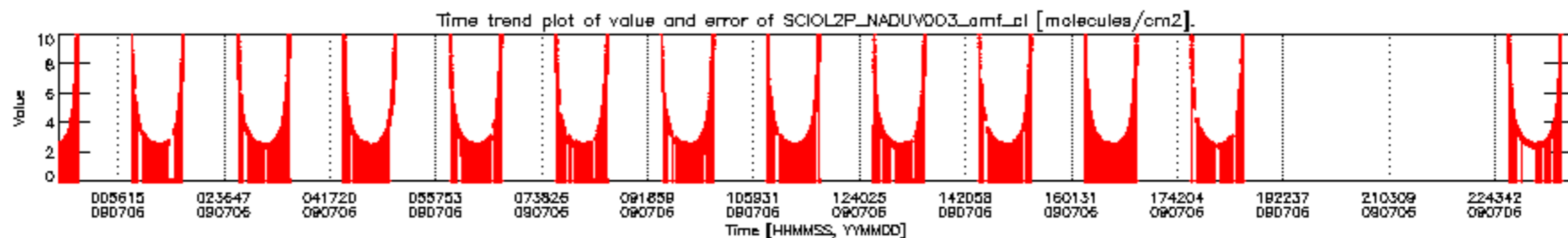
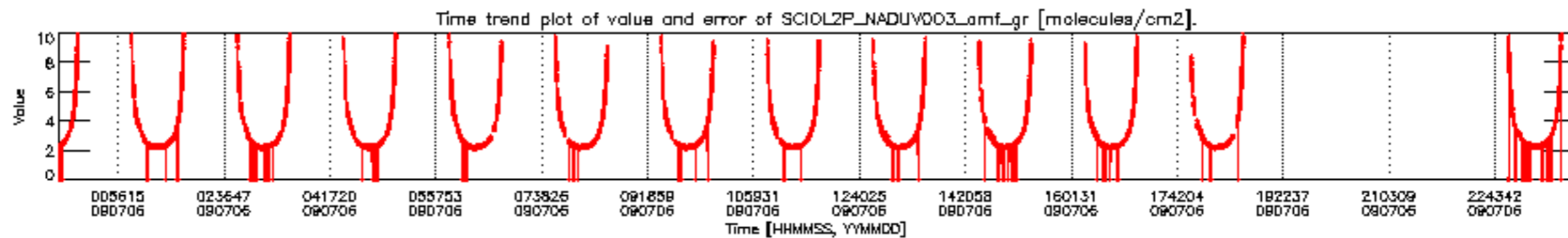
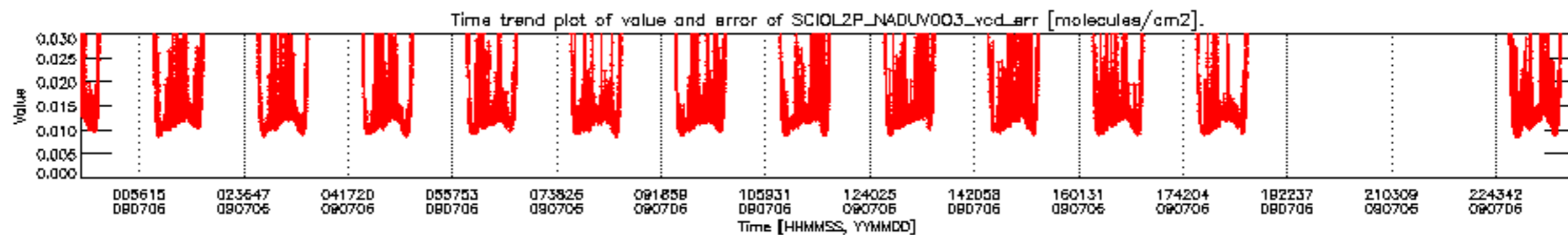
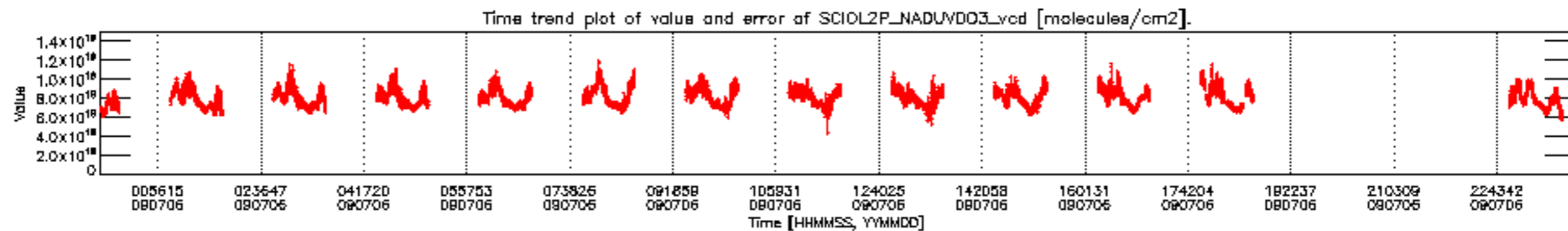


cl_lopt_depth for 06JUL2009 00:00:00 to 07JUL2009 00:00:00

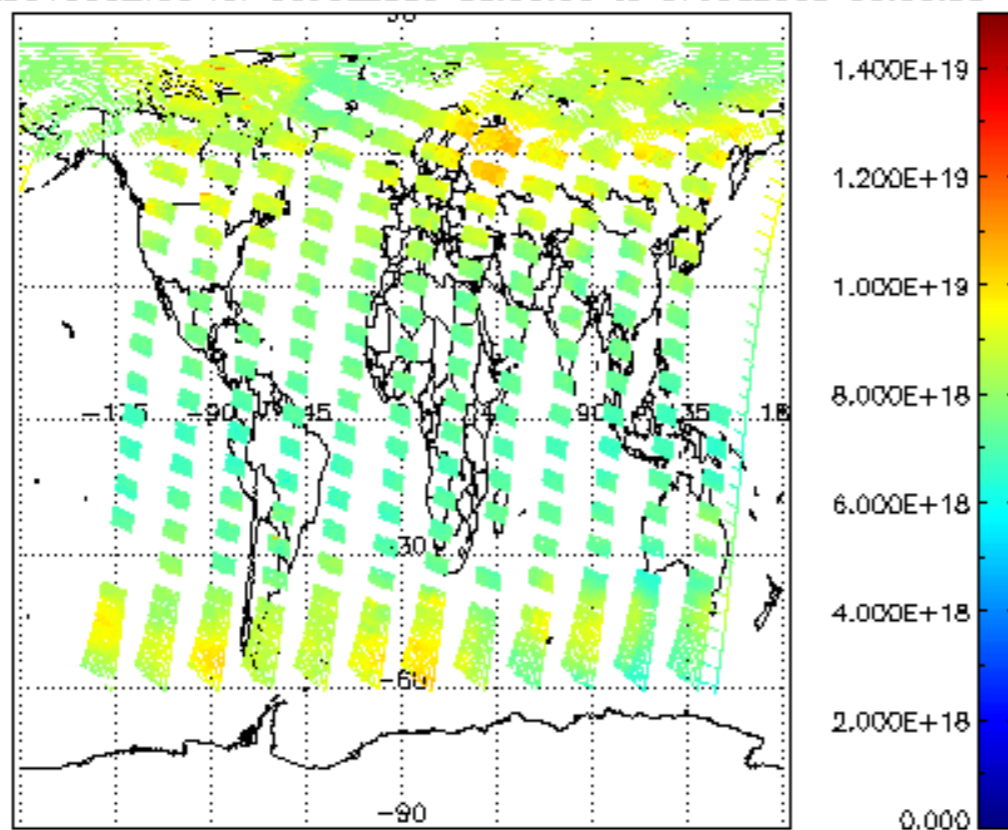


cloud_flags for 06JUL2009 00:00:00 to 07JUL2009 00:00:00

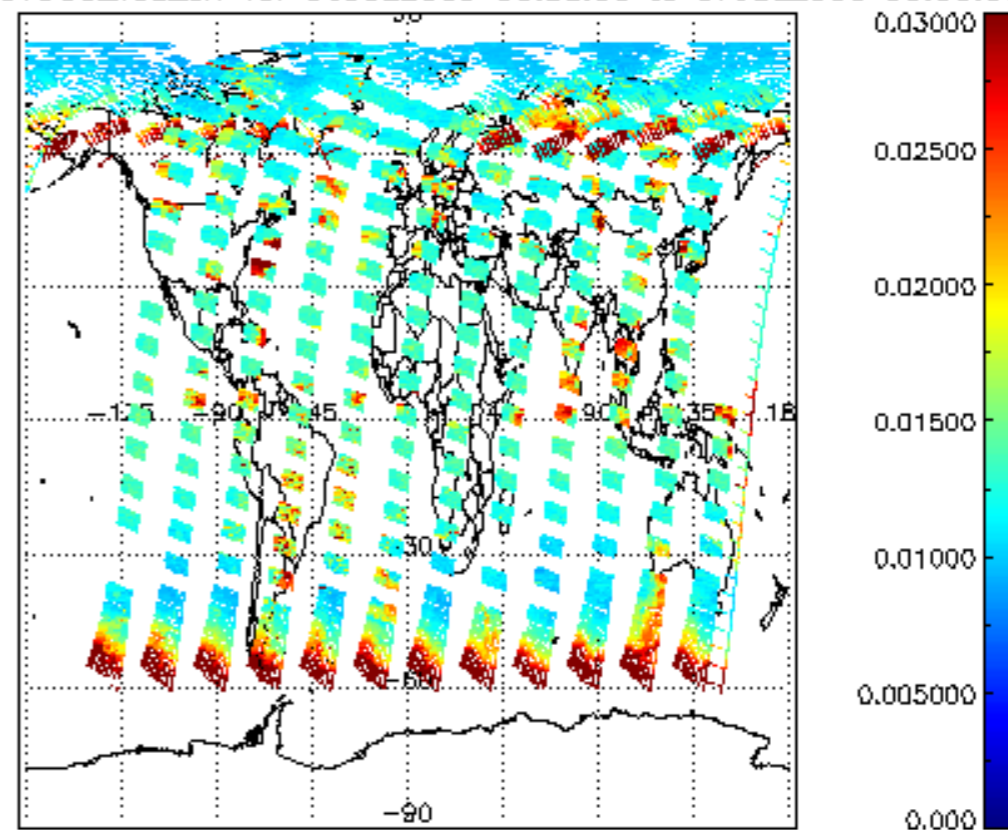




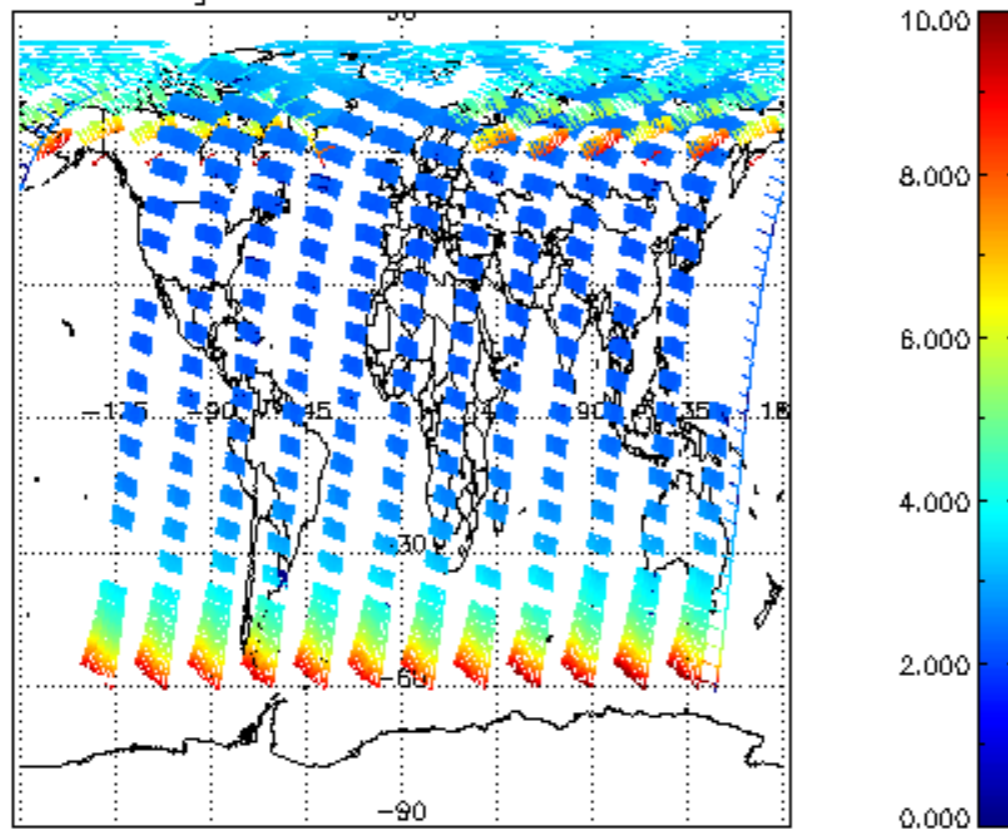
SCIOL2P_NADUV003_vcd for 06JUL2009 00:00:00 to 07JUL2009 00:00:00



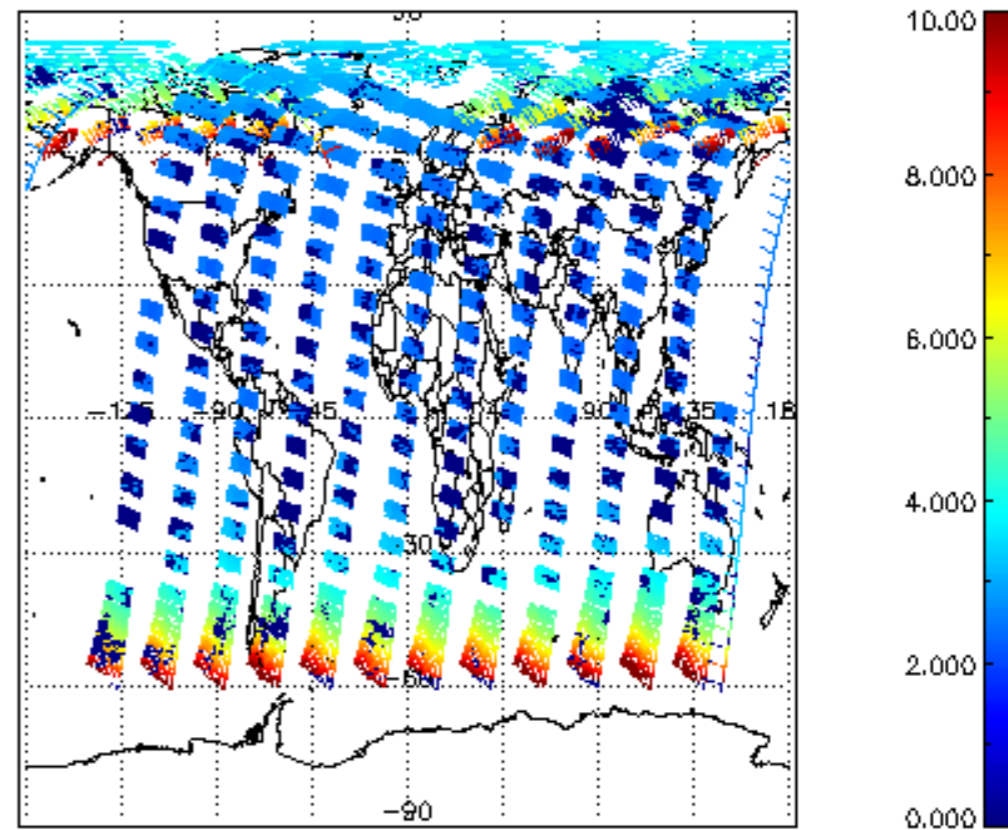
SCIOL2P_NADUV003_vcd_err for 06JUL2009 00:00:00 to 07JUL2009 00:00:00



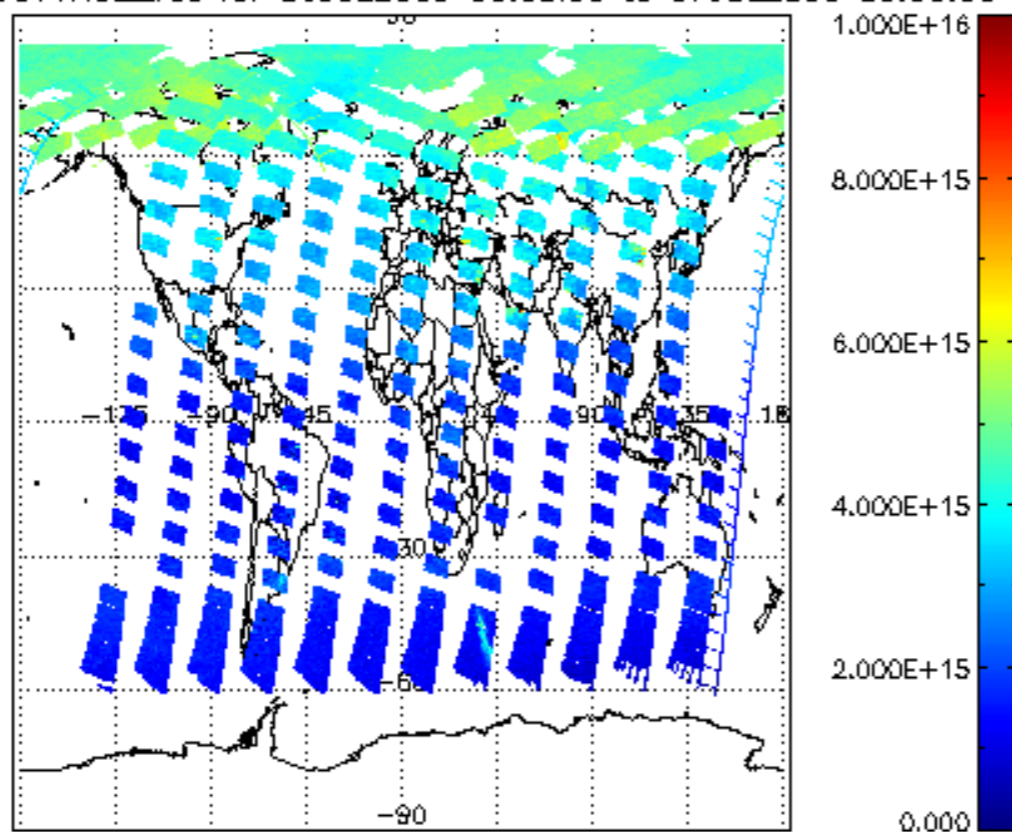
SCIOL2P_NADUV003_amf_gr for 06JUL2009 00:00:00 to 07JUL2009 00:00:00



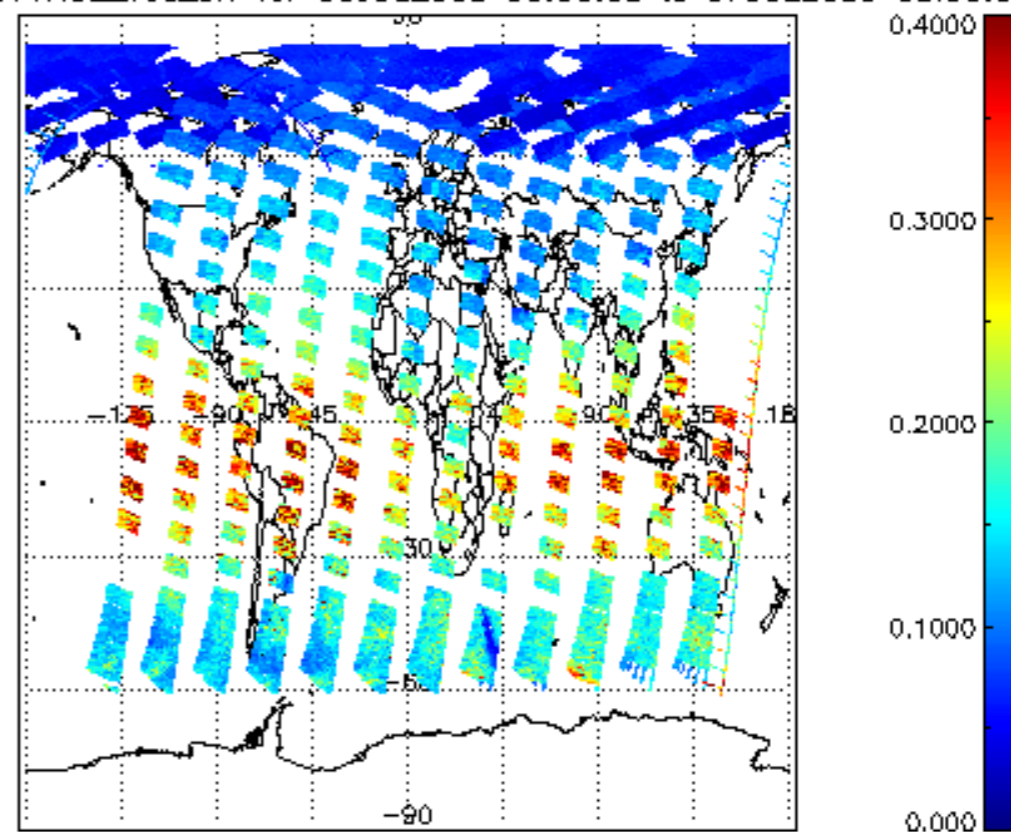
SCIOL2P_NADUV003_amf_cl for 06JUL2009 00:00:00 to 07JUL2009 00:00:00



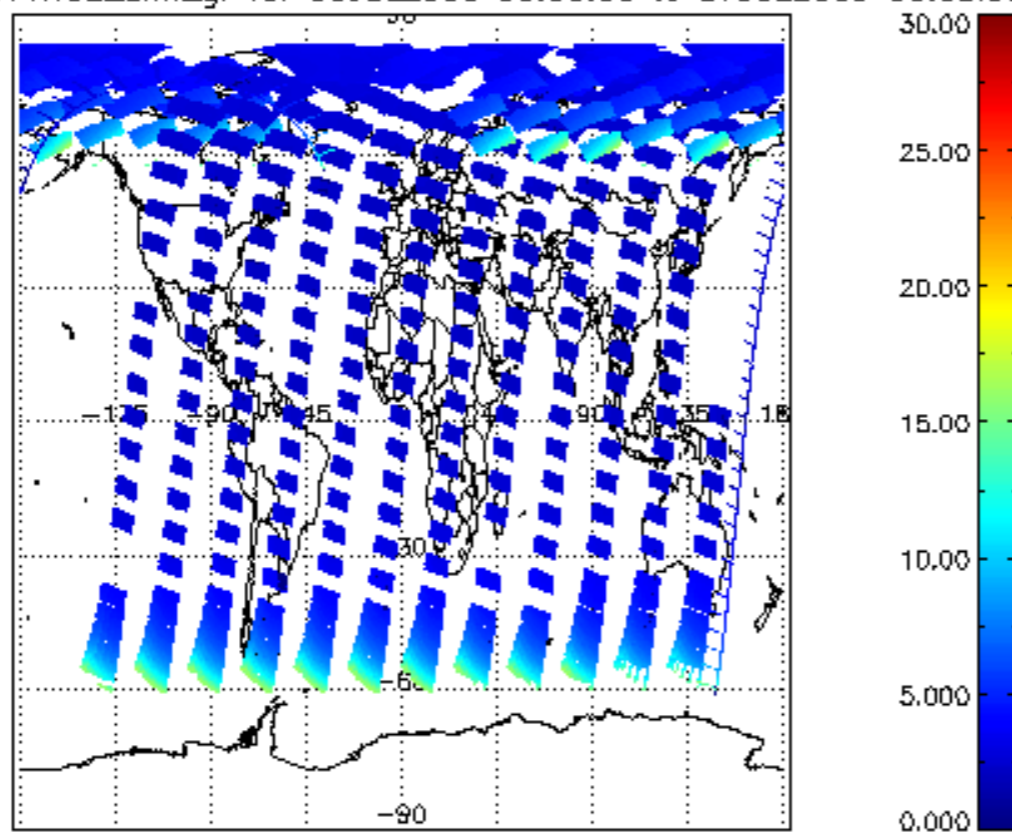
SCIOL2P_NADUV1NO2_vcd for 06JUL2009 00:00:00 to 07JUL2009 00:00:00



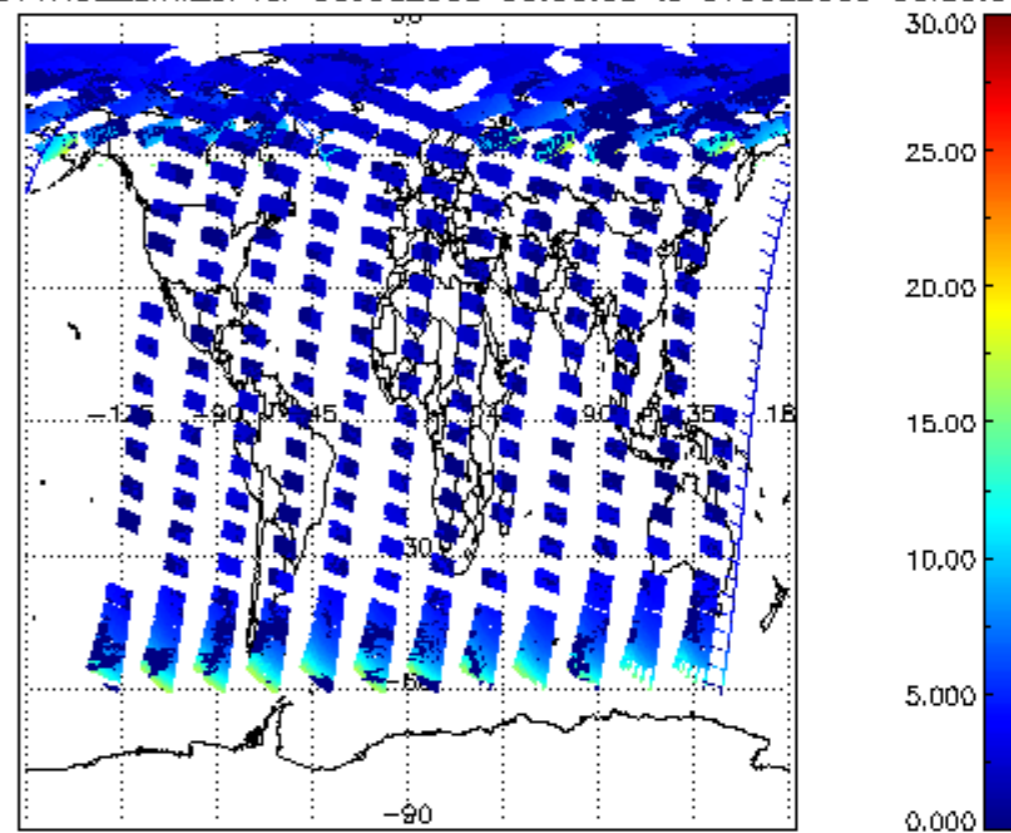
SCIOL2P_NADUV1NO2_vcd_err for 06JUL2009 00:00:00 to 07JUL2009 00:00:00



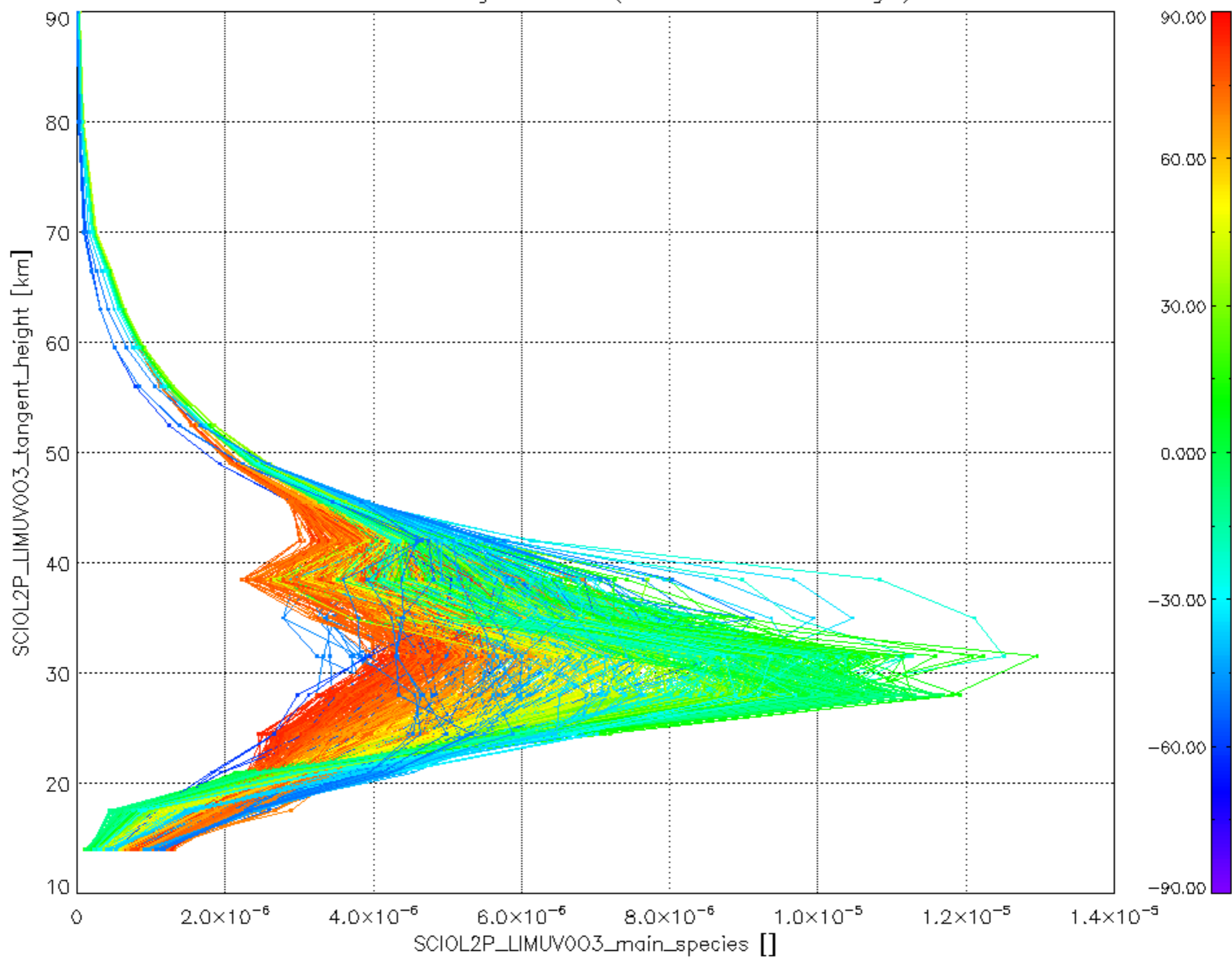
SCIOL2P_NADUV1NO2_amf_gr for 06JUL2009 00:00:00 to 07JUL2009 00:00:00



SCIOL2P_NADUV1NO2_amf_cl for 06JUL2009 00:00:00 to 07JUL2009 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).

