

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	01AUG2009 06:06:10
Data source version	SCIA-OL/3.01-R
Processing scope for products	14JUL2009 00:00:00 to 15JUL2009 00:00:00
Start time of first product within scope	13JUL2009 22:31:55
Stop time of last product within scope	15JUL2009 00:36:21
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__2PRDPA20090713_223155_000033122080_00402_38532_3376.N1	13JUL2009 22:31:55	13JUL2009 23:27:08	0	GOOD
1	SCI_OL__2PRDPA20090714_001231_000033252080_00403_38533_3377.N1	14JUL2009 00:12:31	14JUL2009 01:07:56	0	GOOD
2	SCI_OL__2PRDPA20090714_015307_000033122080_00404_38534_3378.N1	14JUL2009 01:53:07	14JUL2009 02:48:20	0	GOOD
3	SCI_OL__2PRDPA20090714_033343_000033252080_00405_38535_3379.N1	14JUL2009 03:33:43	14JUL2009 04:29:08	0	GOOD
4	SCI_OL__2PRDPA20090714_051419_000033122080_00406_38536_3380.N1	14JUL2009 05:14:19	14JUL2009 06:09:32	0	GOOD
5	SCI_OL__2PRDPA20090714_065455_000033252080_00407_38537_3381.N1	14JUL2009 06:54:55	14JUL2009 07:50:21	0	GOOD
6	SCI_OL__2PRDPA20090714_083531_000033122080_00408_38538_3383.N1	14JUL2009 08:35:31	14JUL2009 09:30:44	0	GOOD
7	SCI_OL__2PRDPA20090714_101607_000033122080_00409_38539_3384.N1	14JUL2009 10:16:07	14JUL2009 11:11:20	0	GOOD
8	SCI_OL__2PRDPA20090714_133719_000033252080_00411_38541_3385.N1	14JUL2009 13:37:19	14JUL2009 14:32:45	0	GOOD
9	SCI_OL__2PRDPA20090714_151755_000033122080_00412_38542_3396.N1	14JUL2009 15:17:55	14JUL2009 16:13:08	0	GOOD
10	SCI_OL__2PRDPA20090714_165832_000033252080_00413_38543_3397.N1	14JUL2009 16:58:32	14JUL2009 17:53:57	0	GOOD
11	SCI_OL__2PRDPA20090714_183858_000033182080_00414_38544_3398.N1	14JUL2009 18:38:58	14JUL2009 19:34:17	0	GOOD
12	SCI_OL__2PRDPA20090714_202000_000033252080_00415_38545_3399.N1	14JUL2009 20:20:00	14JUL2009 21:15:26	0	GOOD
13	SCI_OL__2PRDPA20090714_220020_000033122080_00416_38546_3393.N1	14JUL2009 22:00:20	14JUL2009 22:55:33	0	GOOD
14	SCI_OL__2PRDPA20090714_234056_000033252080_00417_38547_3392.N1	14JUL2009 23:40:56	15JUL2009 00:36:21	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: 135460

Total number of cloud data DSRs with good quality flag (=0): 135460 (100.0 %)

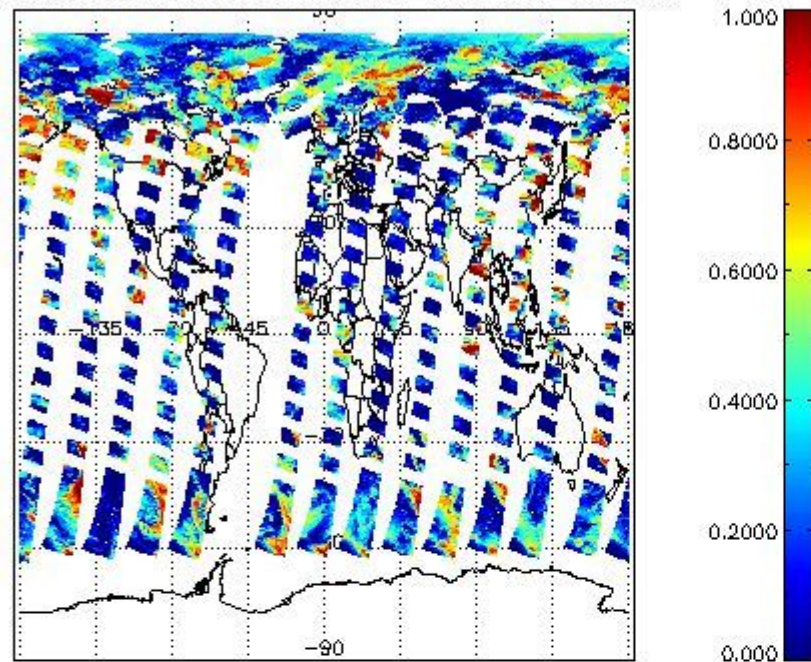
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	135460	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	135460	0.17035	0.12500	0.12500	0.25000	0.060100	s
CL_FRAC	135460	0.28305	0.21974	0.0000	1.0000	0.27277	-
CL_FRAC_ERR	135460	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	135460	5.4511	4.0000	4.0000	8.0000	1.9232	
PMD_READ_CL[0]	135460	0.16342	0.0000	0.0000	8.0000	0.94781	-
PMD_READ_CL[1]	135460	1.7687	0.0000	0.0000	8.0000	2.5988	-
CL_TOP_HEIGHT	118296	3.2426	1.2340	0.0000	17.000	3.7941	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	118296	59.380	100.00	0.0000	101.00	44.933	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	135460	11100000	11100000	11100000	11100000	0.0000	flags
CLOUD_FLAGS	135460	11001100	11000100	11000000	11100000	3584.4	flags
AERO_ABSO_IND	135460	4.1890	4.9268	-0.33088	14.729	2.7041	
AERO_IND_DIAG	135460	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	135460	01011000	00000000	00000000	11000000	24499.	flags

Time and geolocation plots:

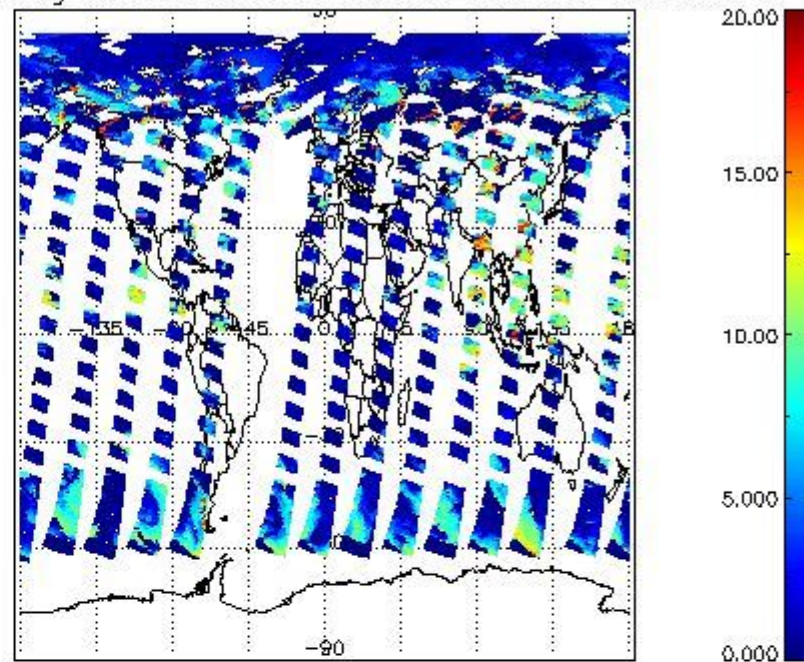
Plots are available for the following parameters:

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

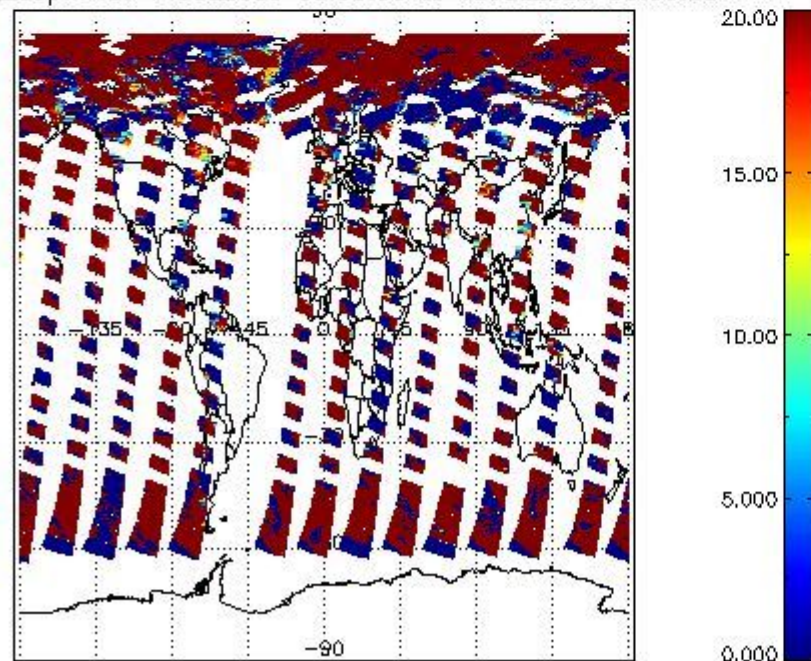
cL_frac for 14JUL2009 00:00:00 to 15JUL2009 00:00:00



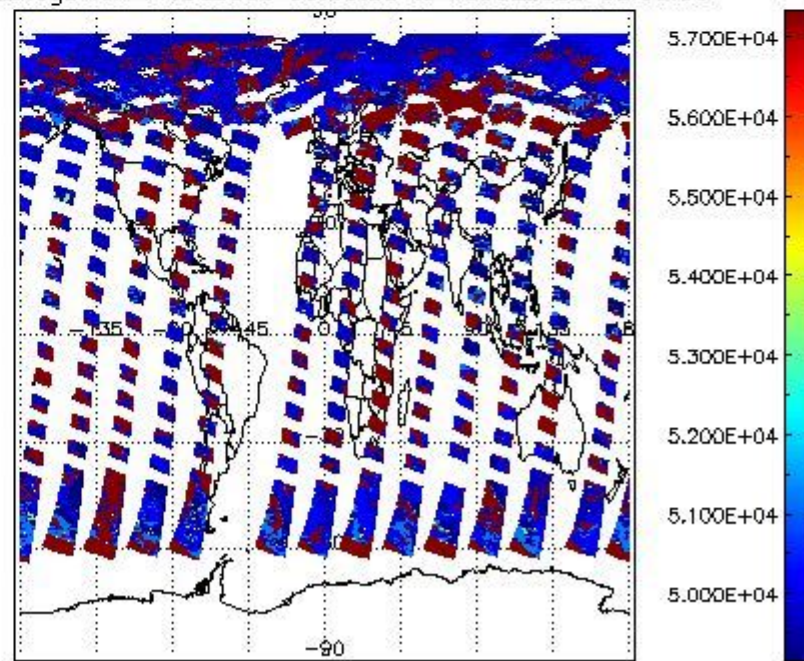
cL_top_height for 14JUL2009 00:00:00 to 15JUL2009 00:00:00



cL_opt_depth for 14JUL2009 00:00:00 to 15JUL2009 00:00:00



cloud_flags for 14JUL2009 00:00:00 to 15JUL2009 00:00:00



2.2.2 Nadir

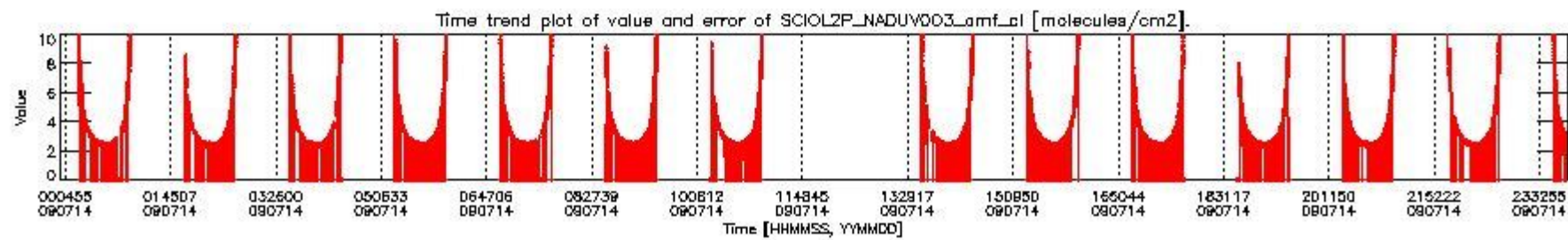
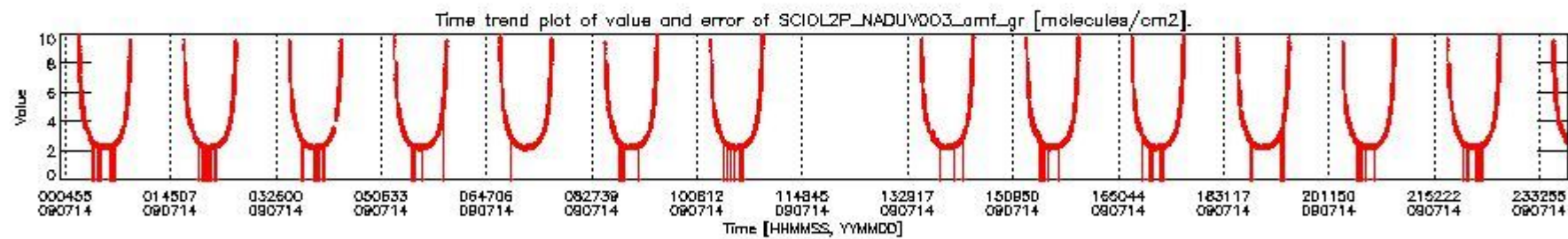
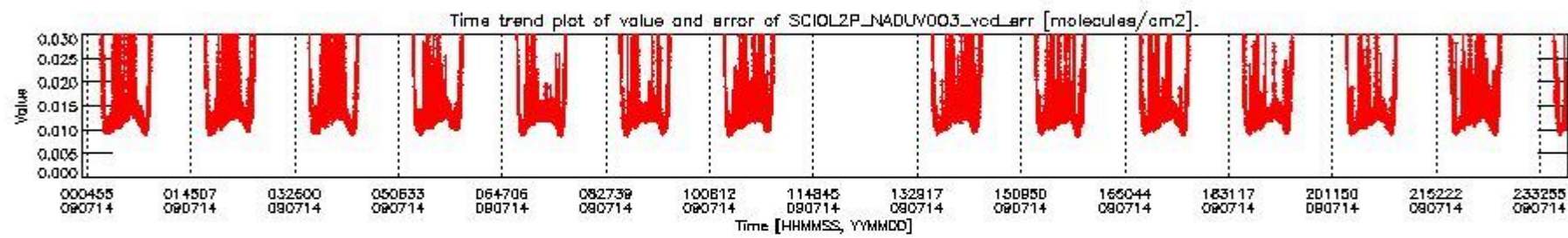
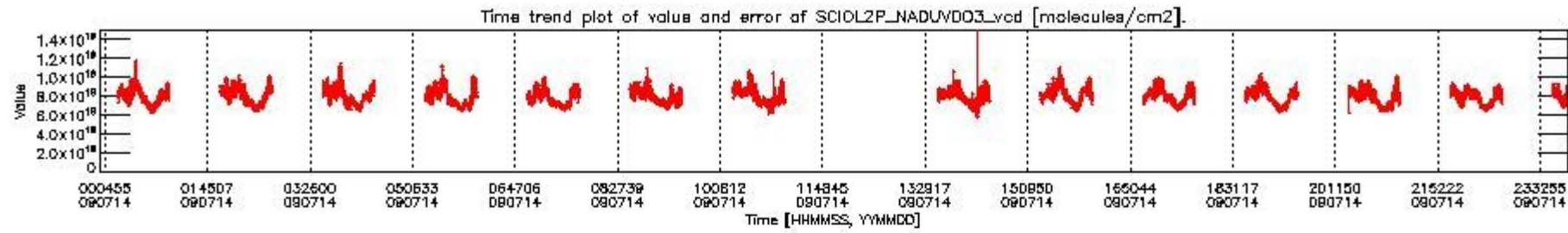
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

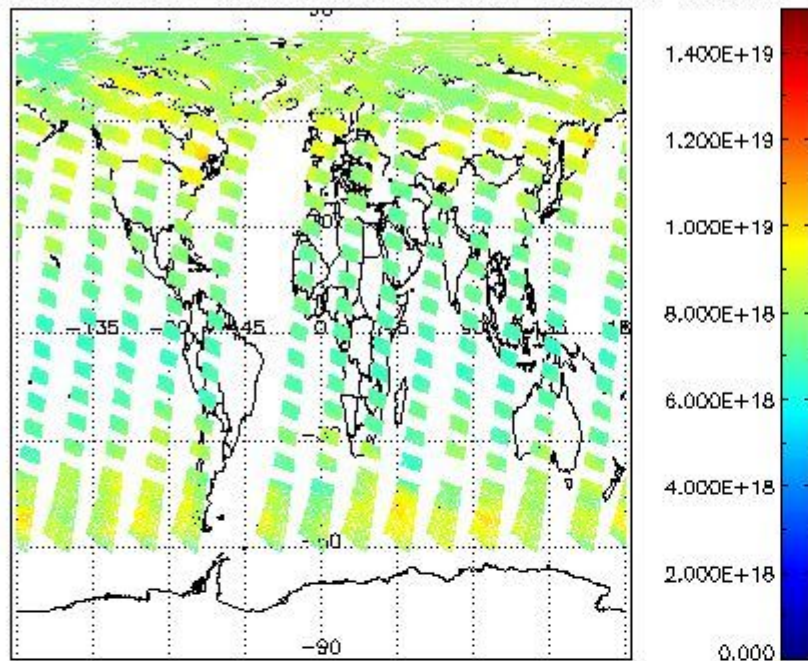
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

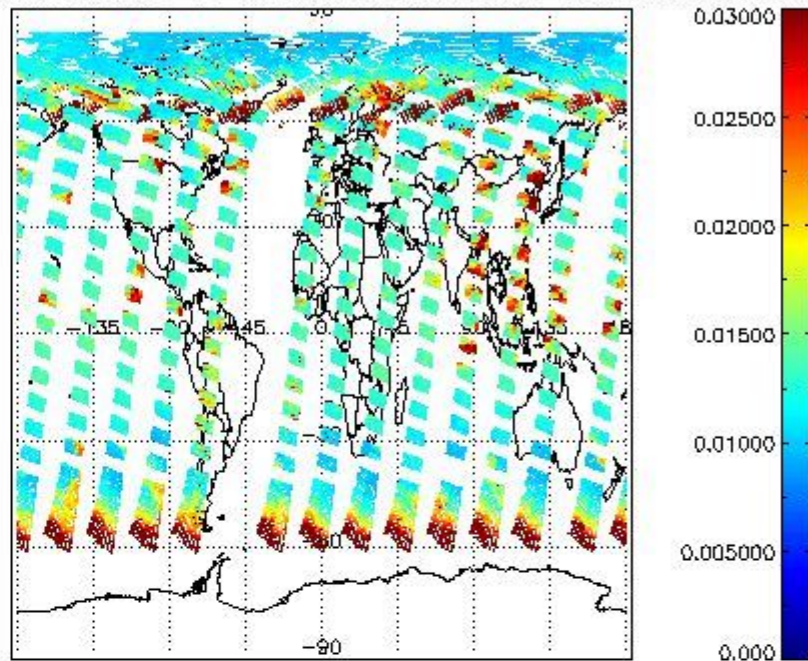
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



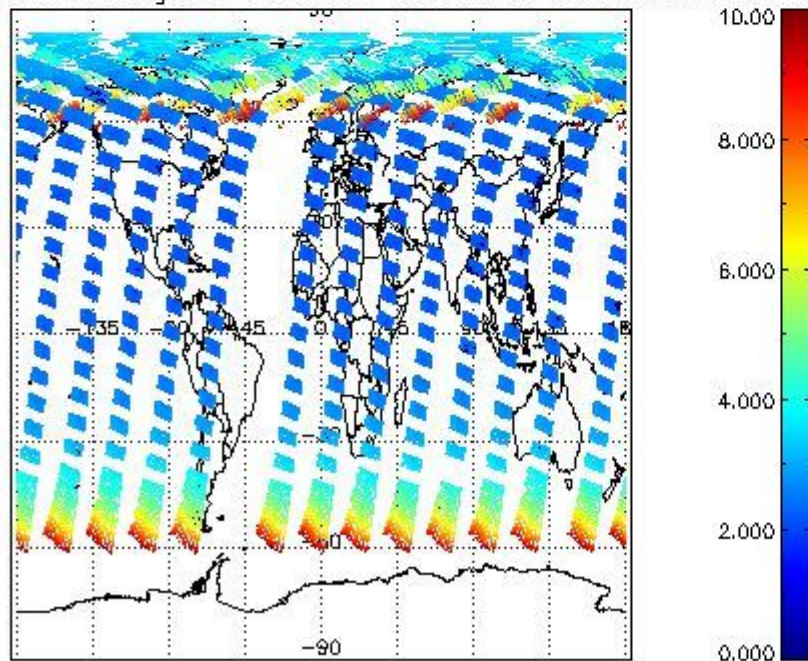
SCIOL2P_NADUV003_vcd for 14JUL2009 00:00:00 to 15JUL2009 00:00:00



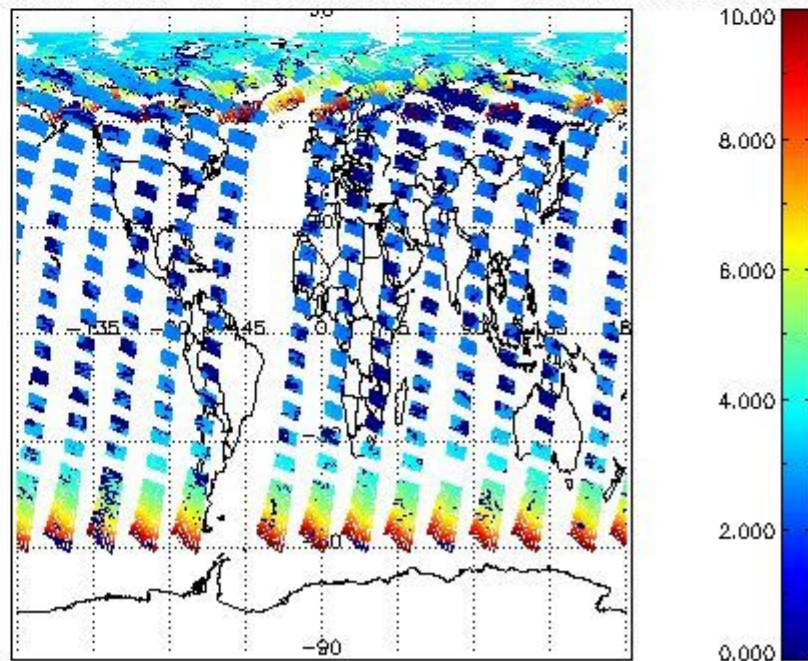
SCIOL2P_NADUV003_vcd_err for 14JUL2009 00:00:00 to 15JUL2009 00:00:00

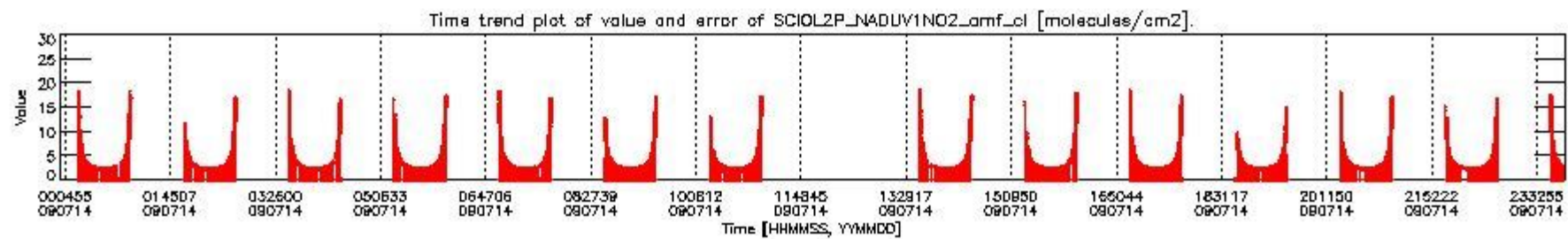
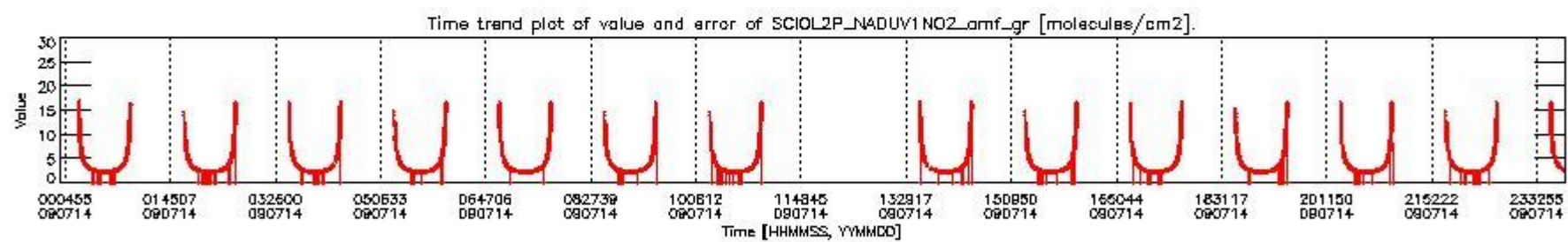
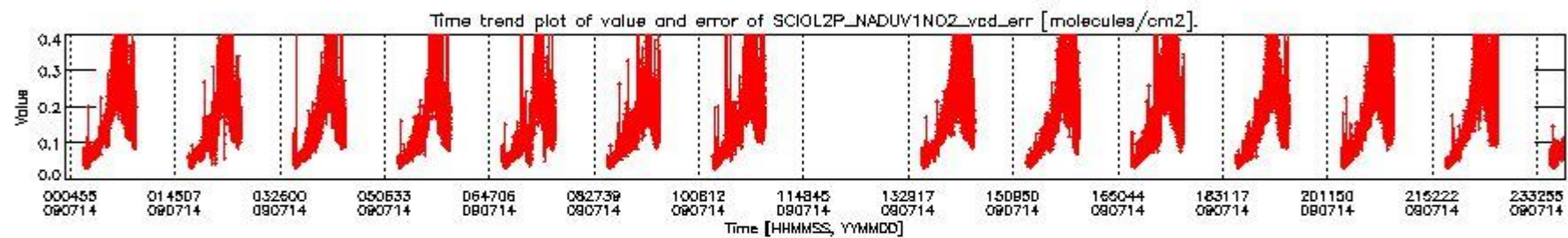
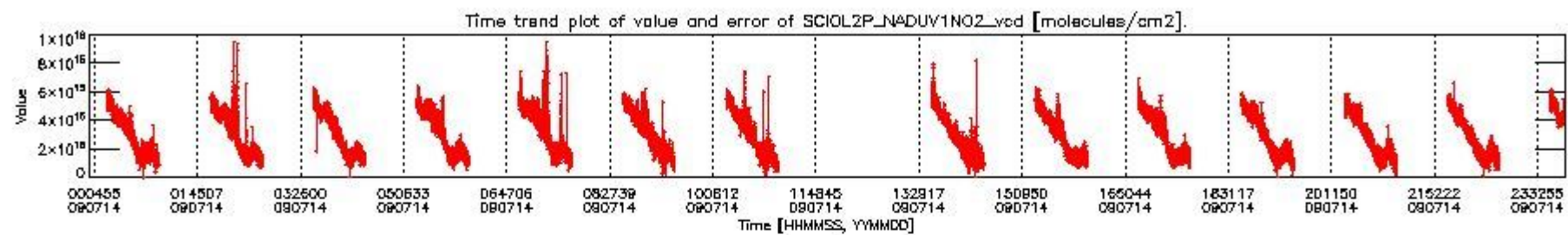


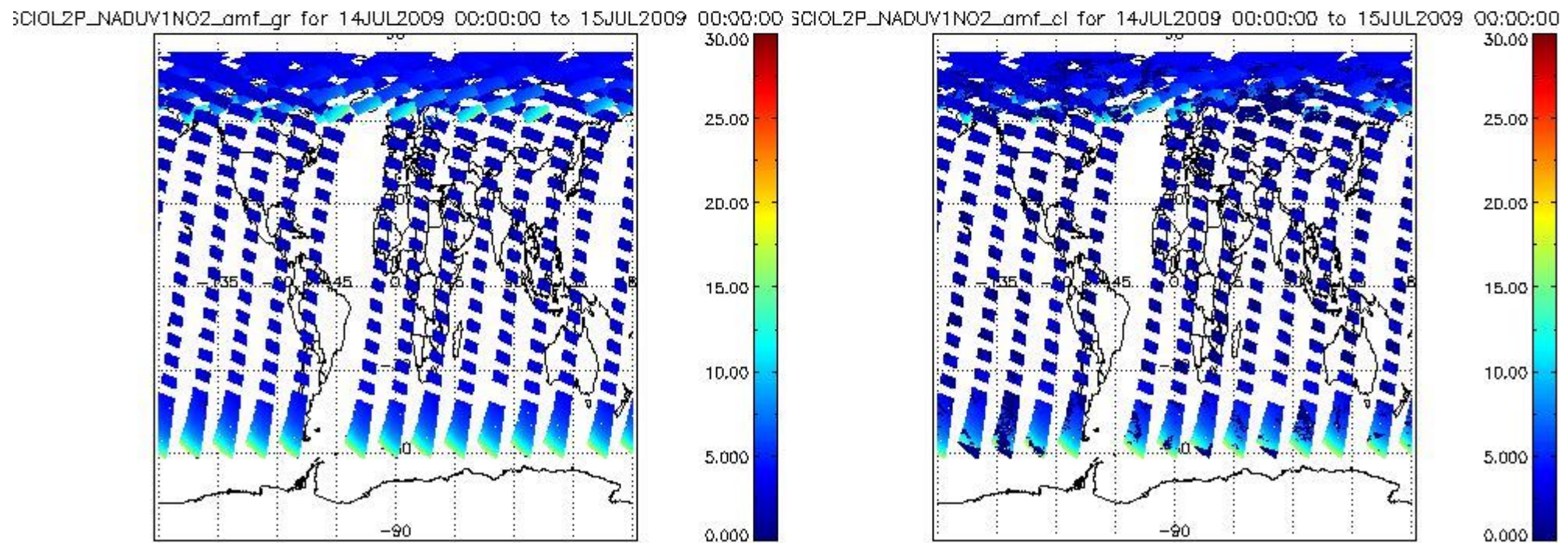
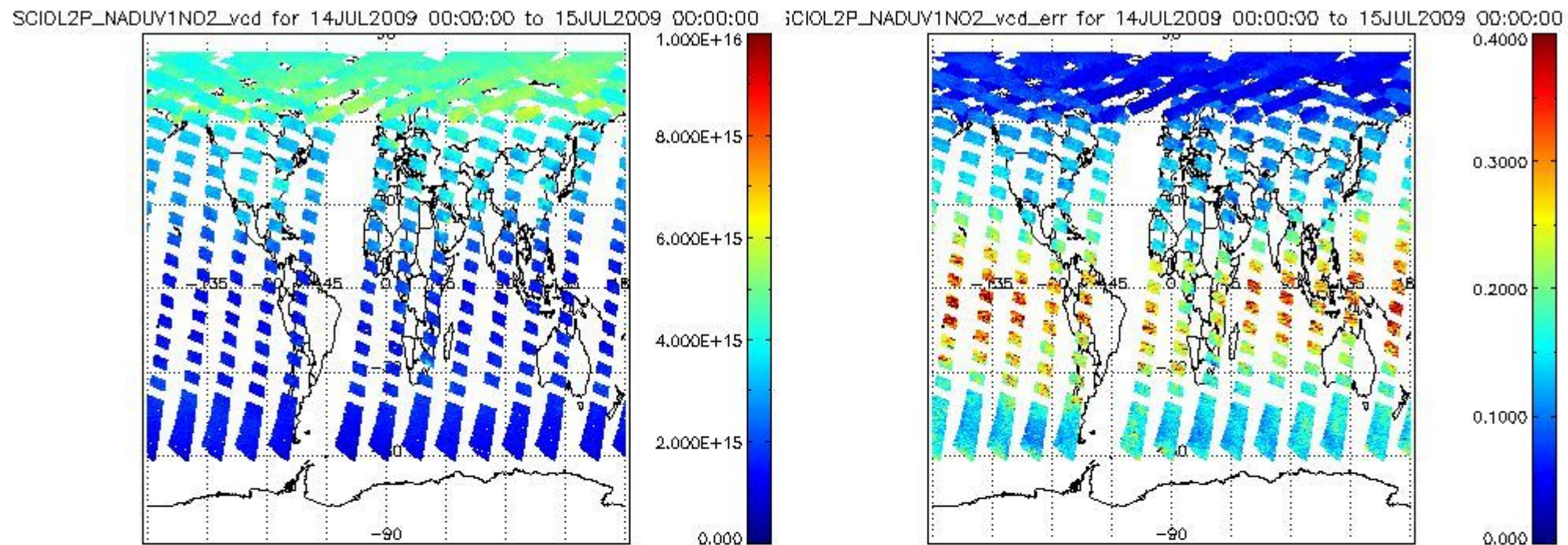
SCIOL2P_NADUV003_amf_gr for 14JUL2009 00:00:00 to 15JUL2009 00:00:00



SCIOL2P_NADUV003_amf_cl for 14JUL2009 00:00:00 to 15JUL2009 00:00:00







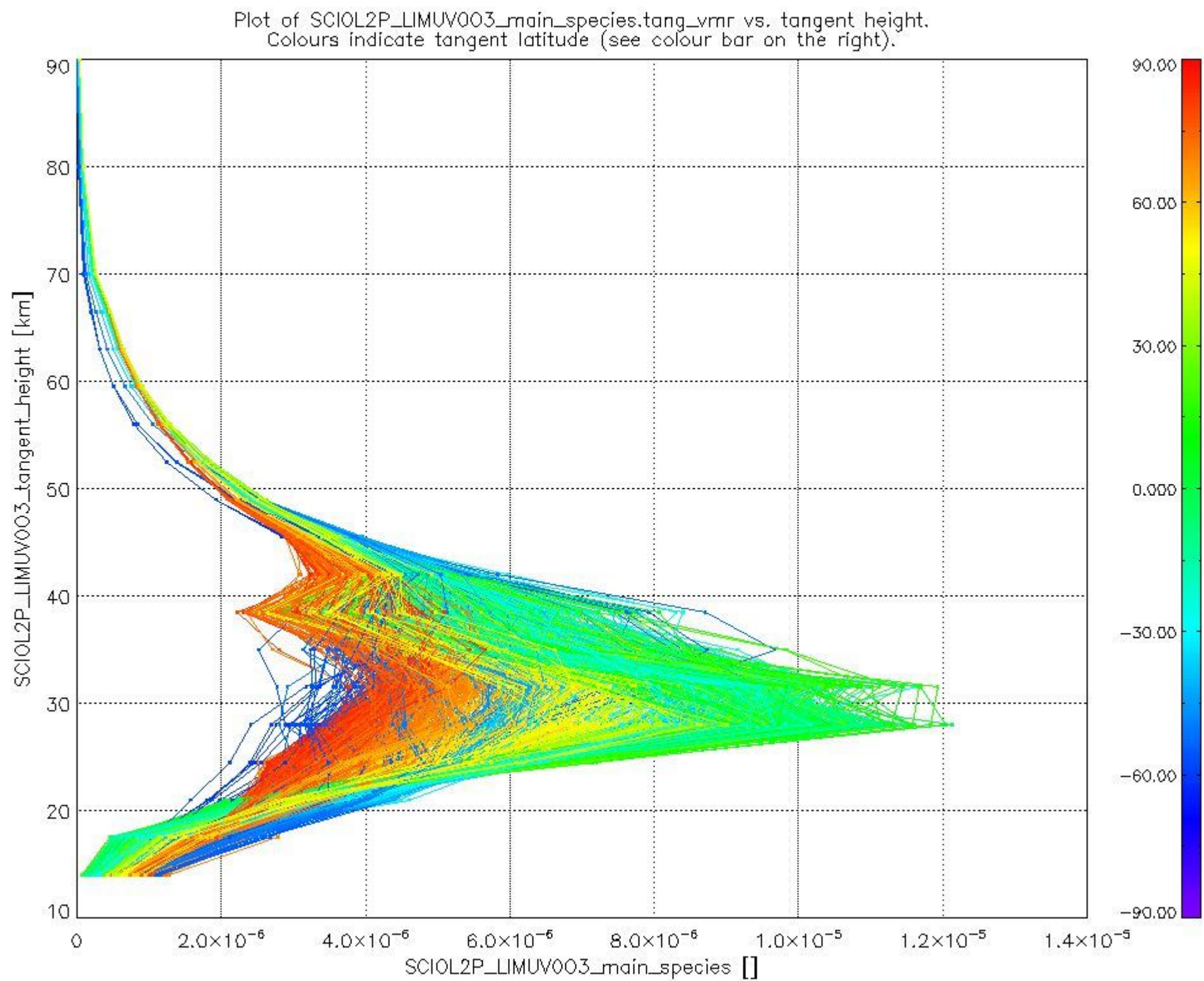
2.2.3 Limb

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

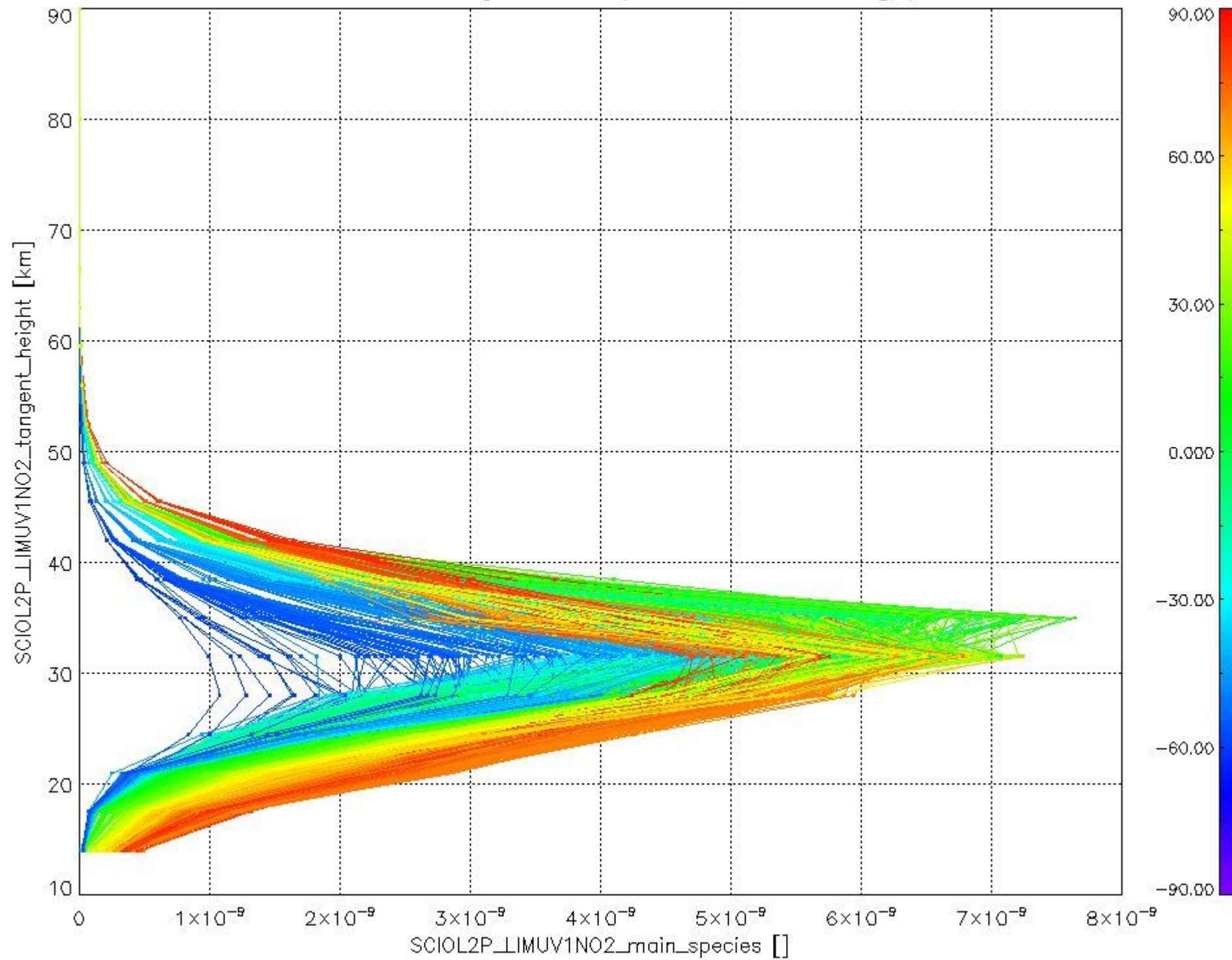
The following data items are currently included into this section:

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.



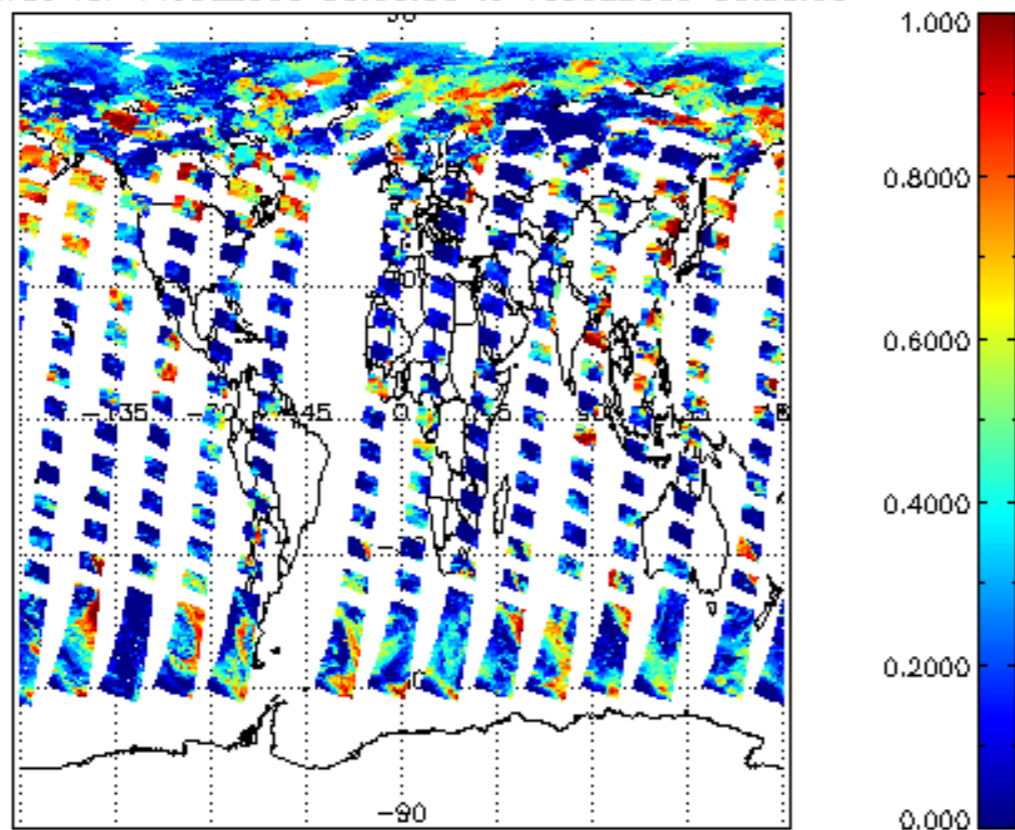
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



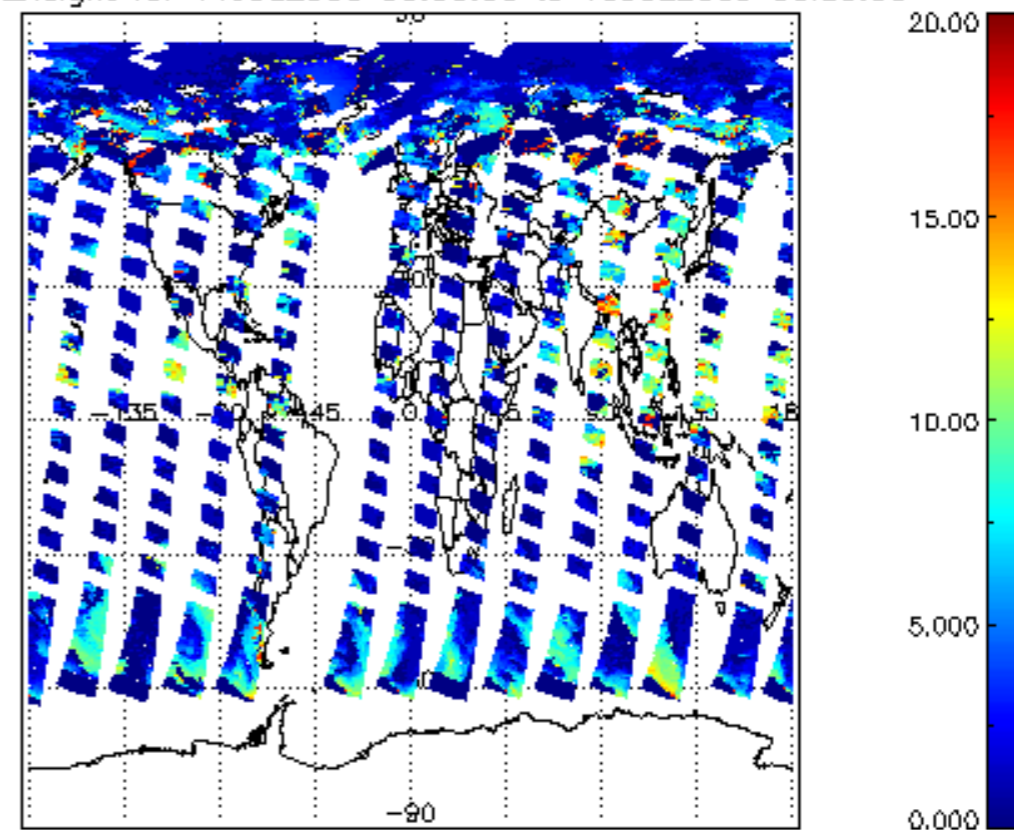
2.3 ADF monitoring

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

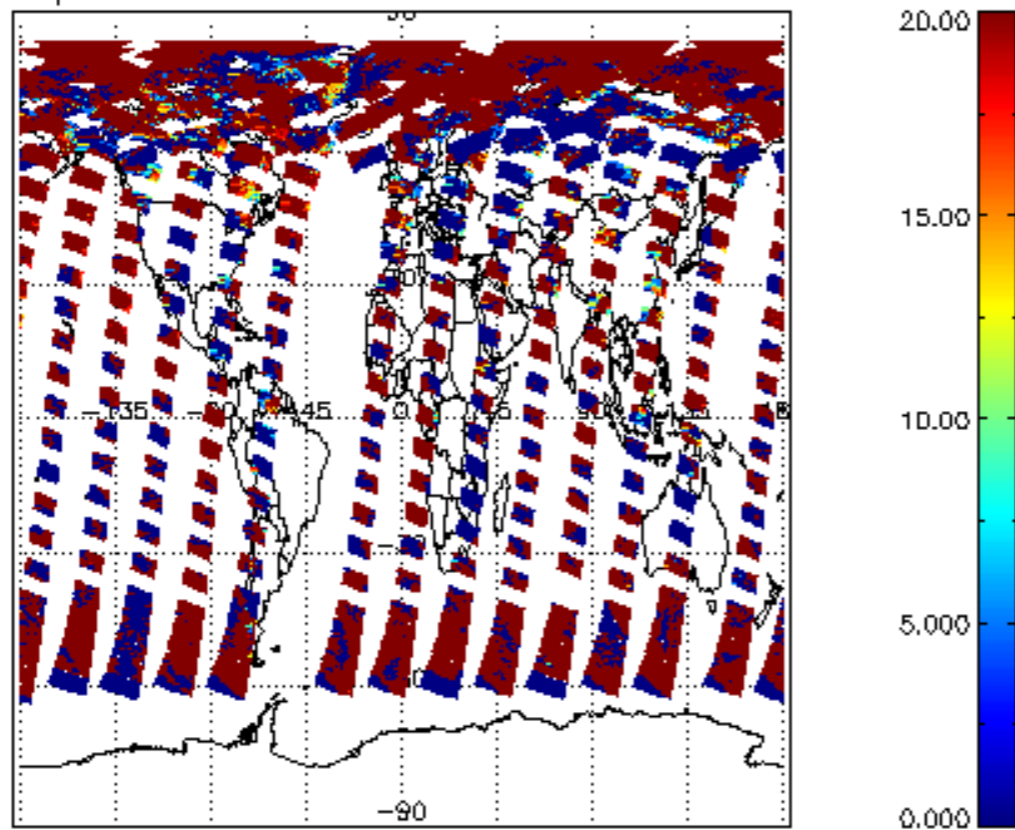
cl_frac for 14JUL2009 00:00:00 to 15JUL2009 00:00:00



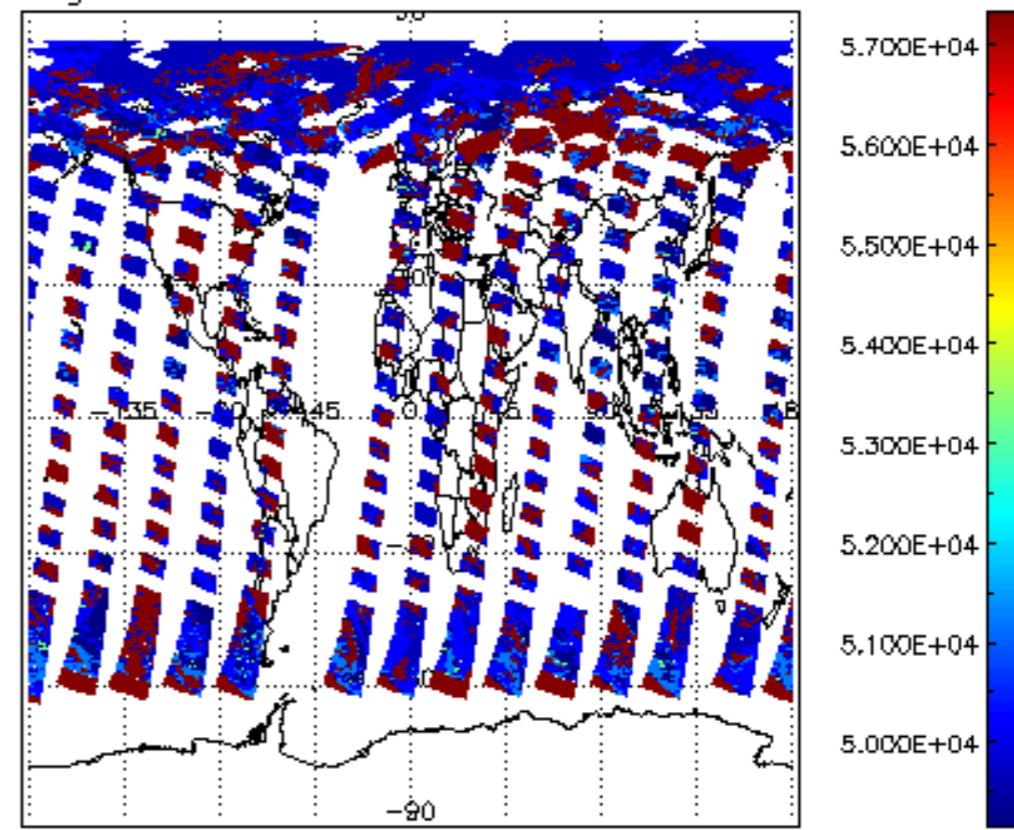
cl_top_height for 14JUL2009 00:00:00 to 15JUL2009 00:00:00

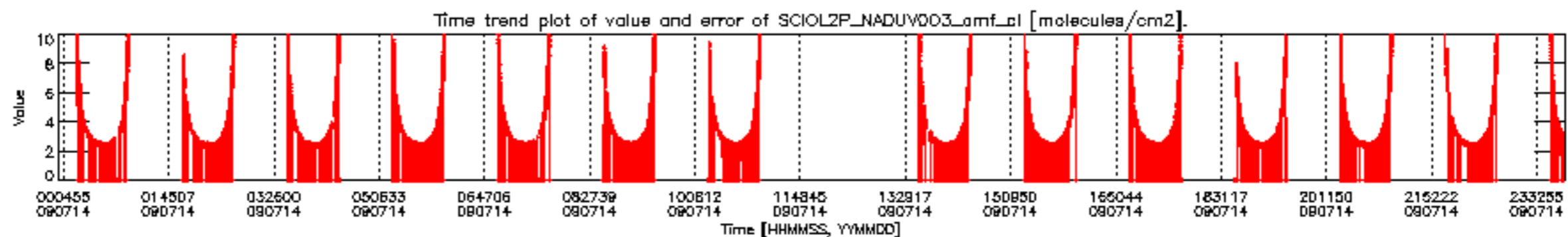
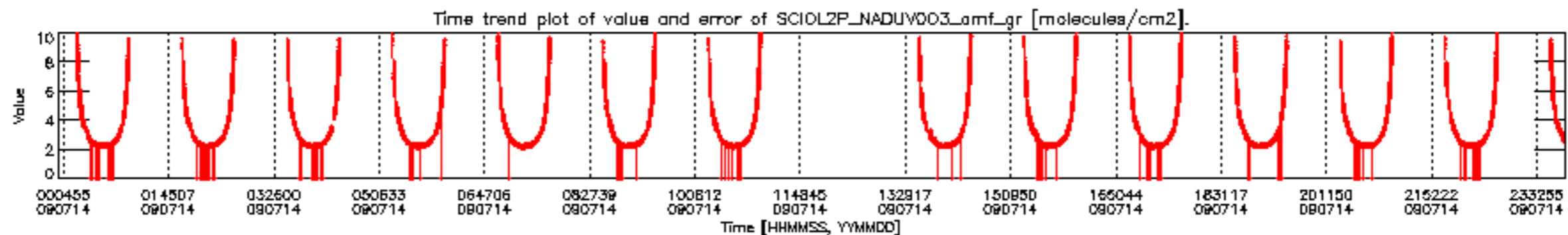
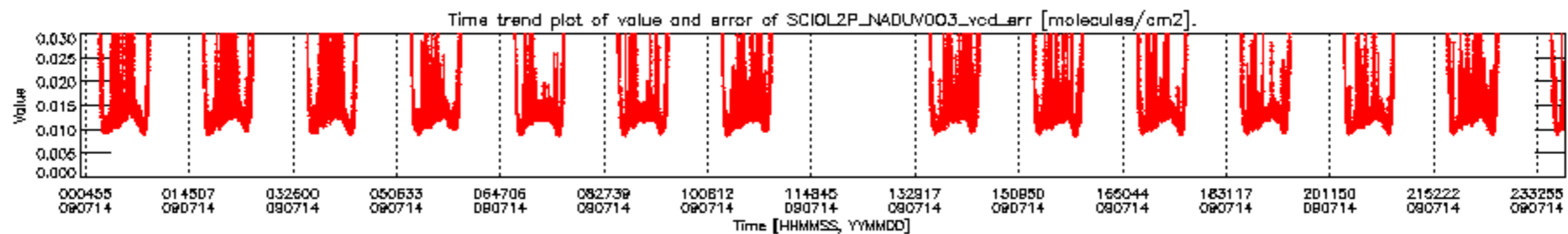
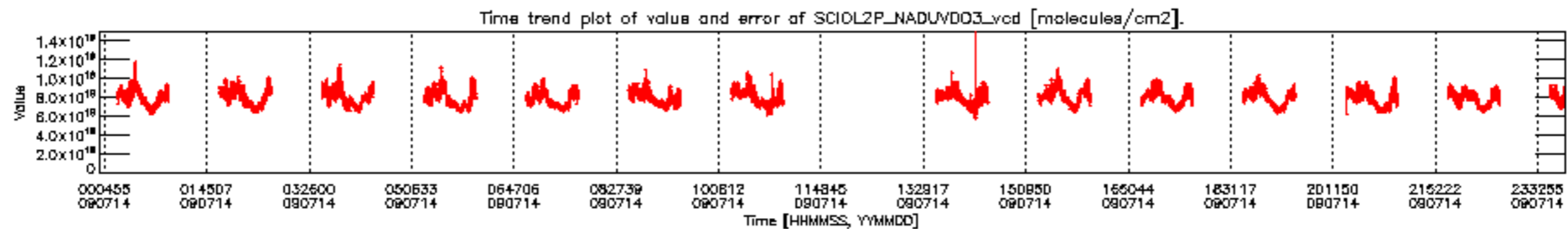


cl_lopt_depth for 14JUL2009 00:00:00 to 15JUL2009 00:00:00

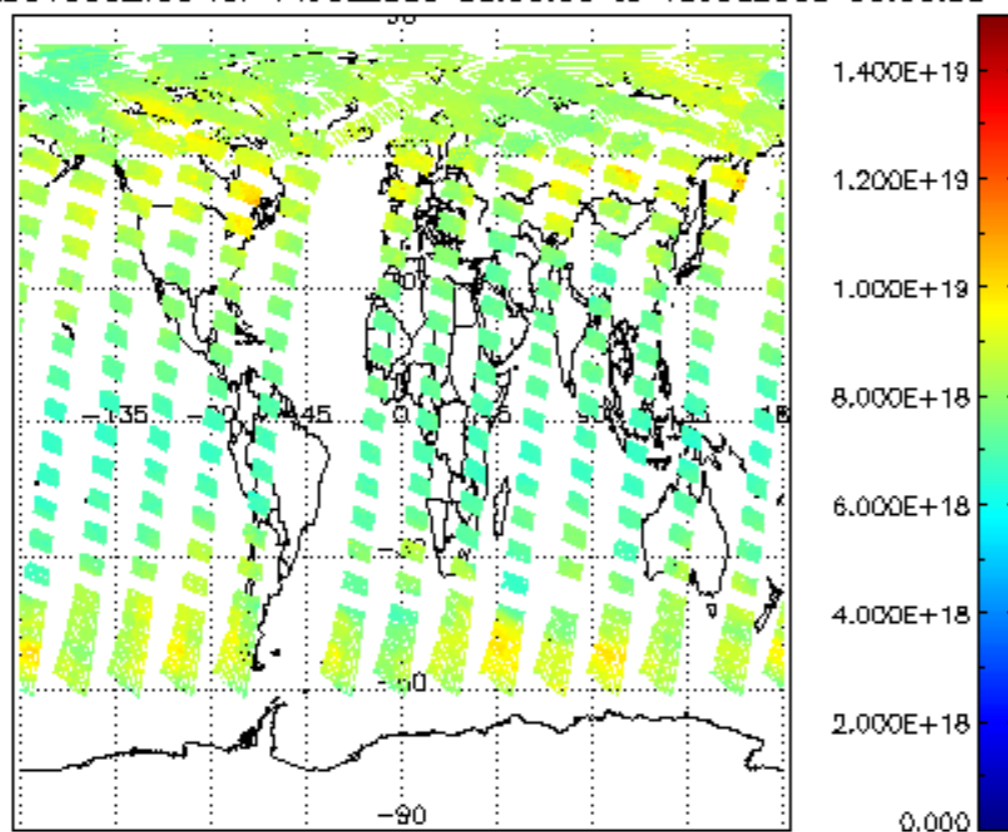


cloud_flags for 14JUL2009 00:00:00 to 15JUL2009 00:00:00

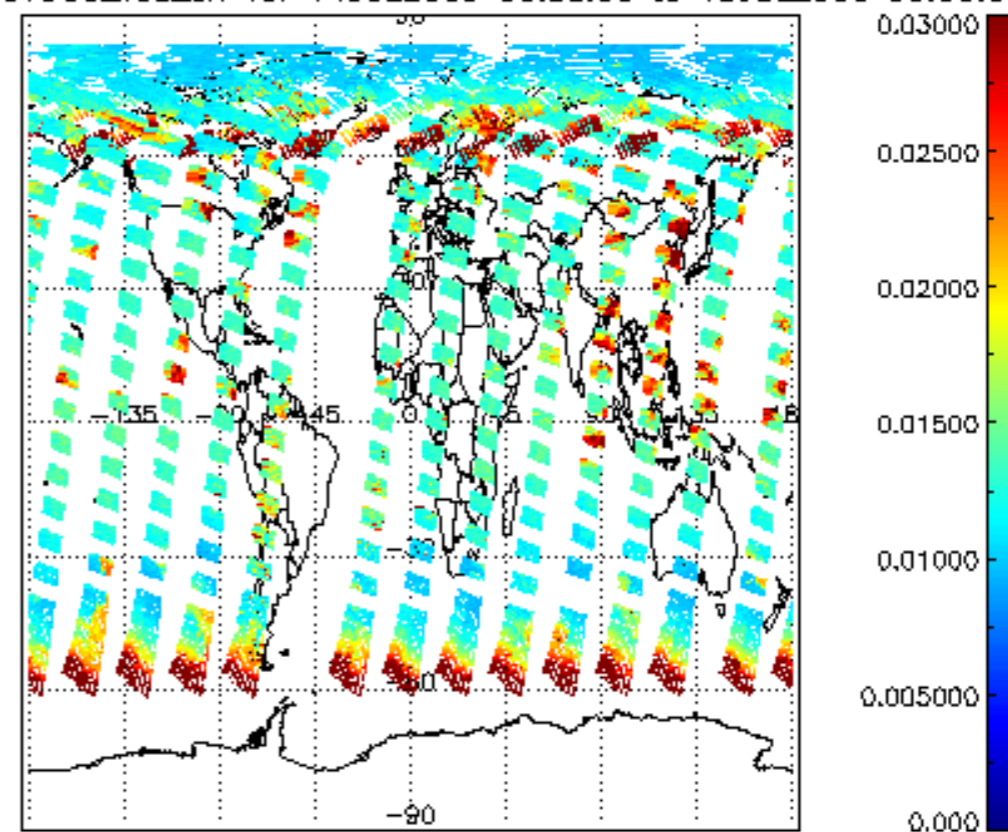




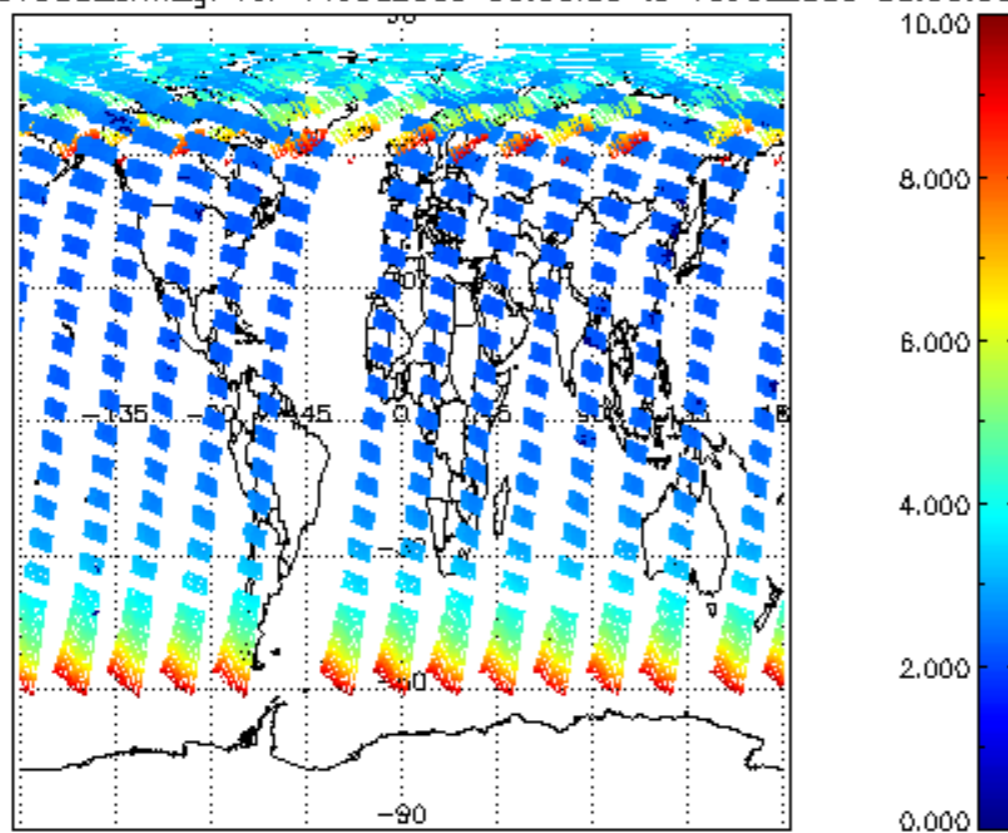
SCIOL2P_NADUV003_vcd for 14JUL2009 00:00:00 to 15JUL2009 00:00:00



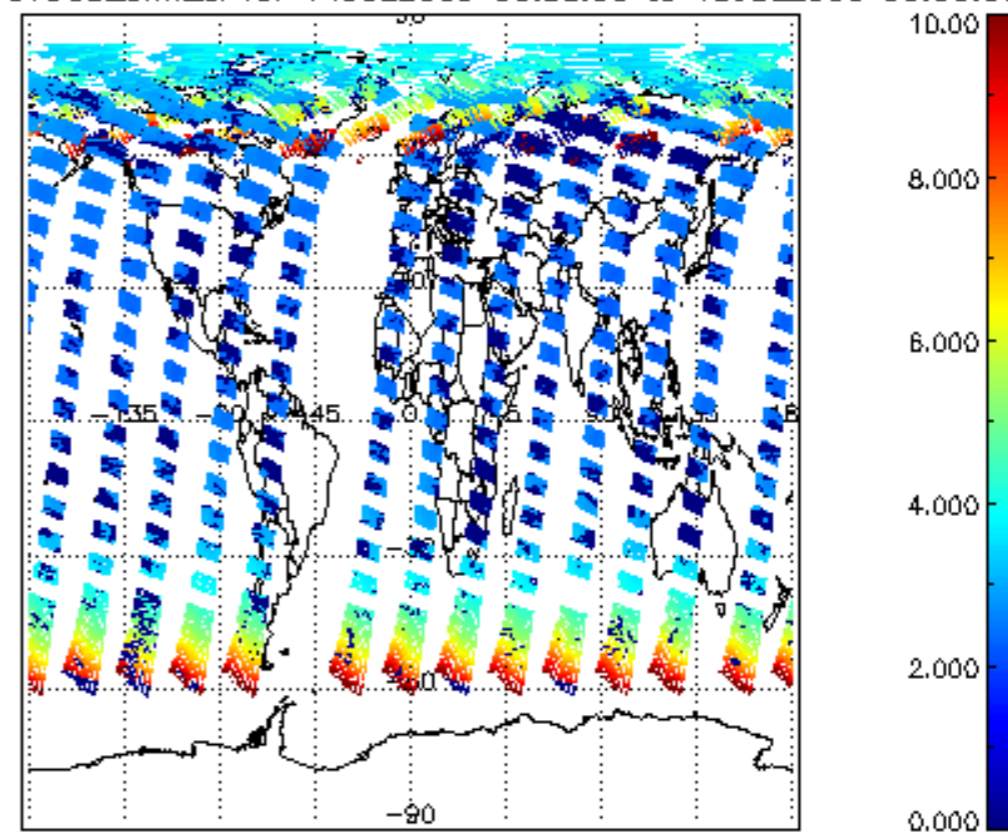
SCIOL2P_NADUV003_vcd_err for 14JUL2009 00:00:00 to 15JUL2009 00:00:00

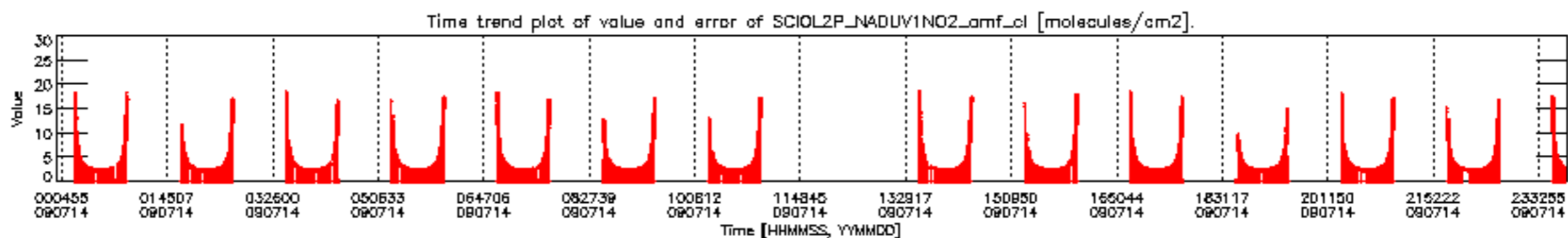
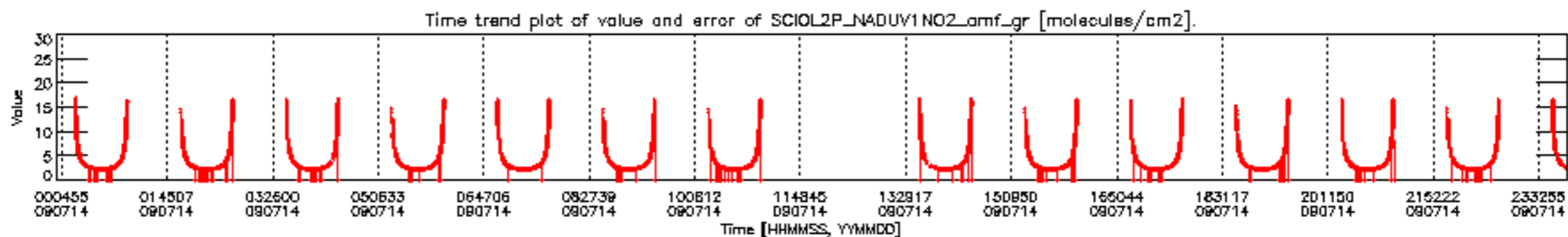
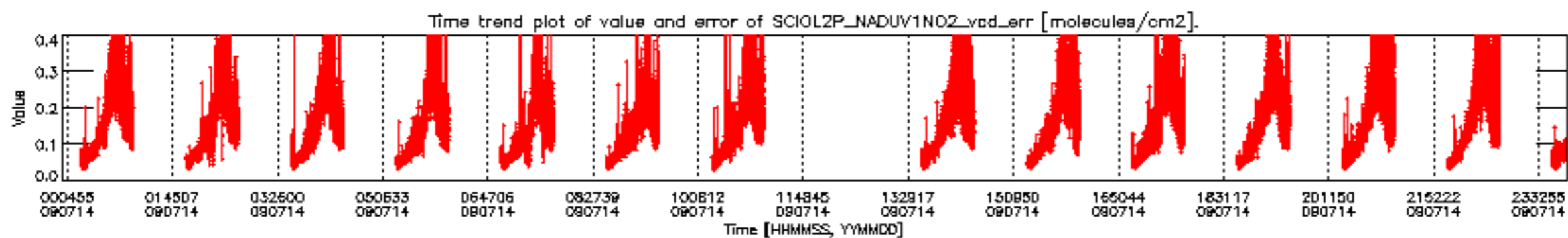
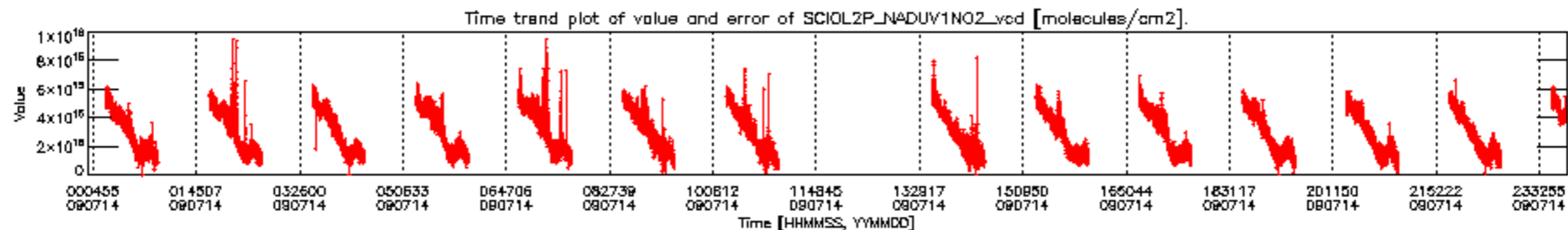


SCIOL2P_NADUV003_amf_gr for 14JUL2009 00:00:00 to 15JUL2009 00:00:00

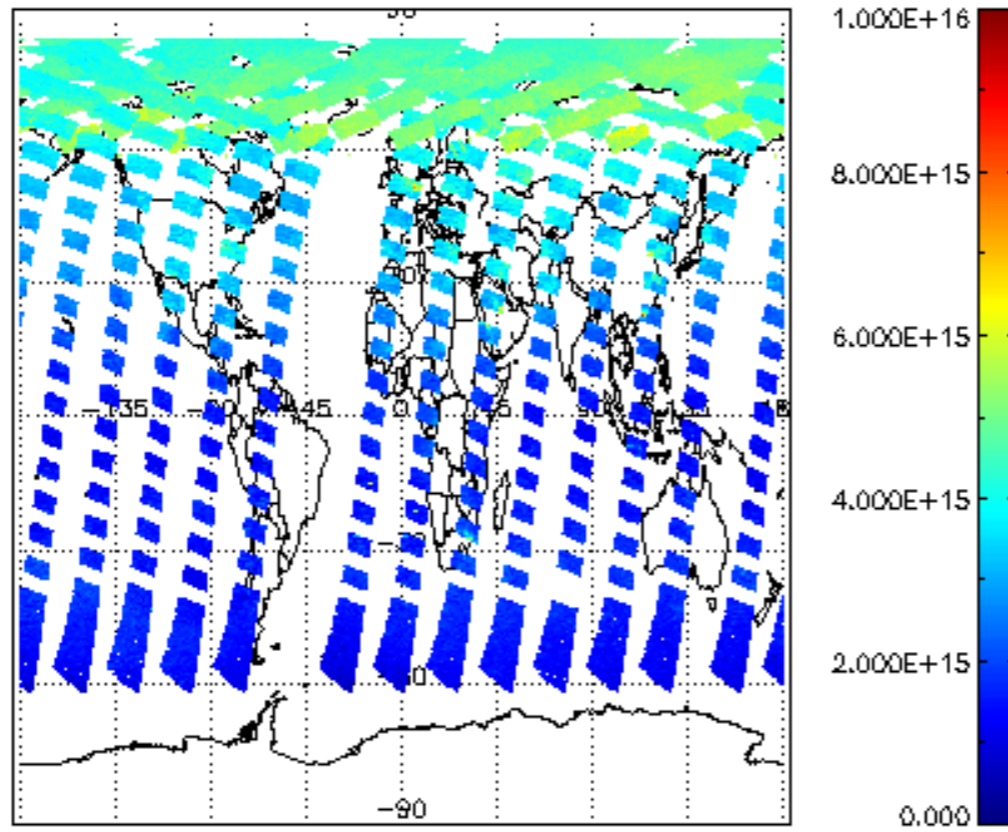


SCIOL2P_NADUV003_amf_cl for 14JUL2009 00:00:00 to 15JUL2009 00:00:00

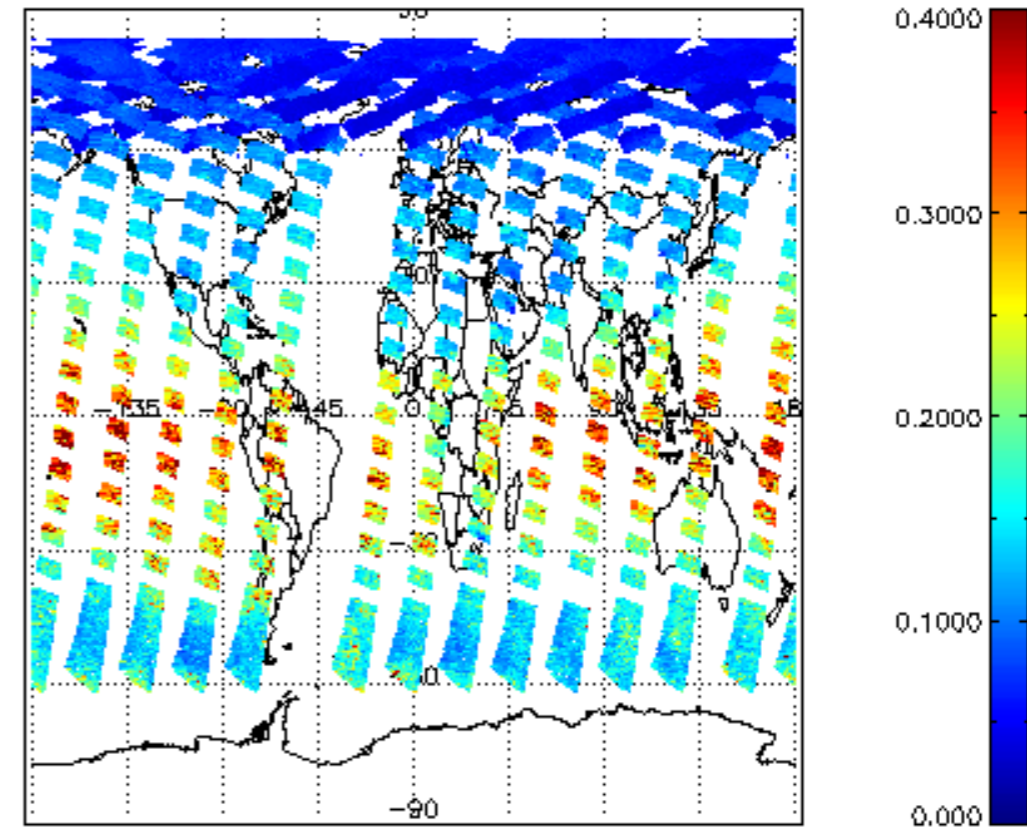




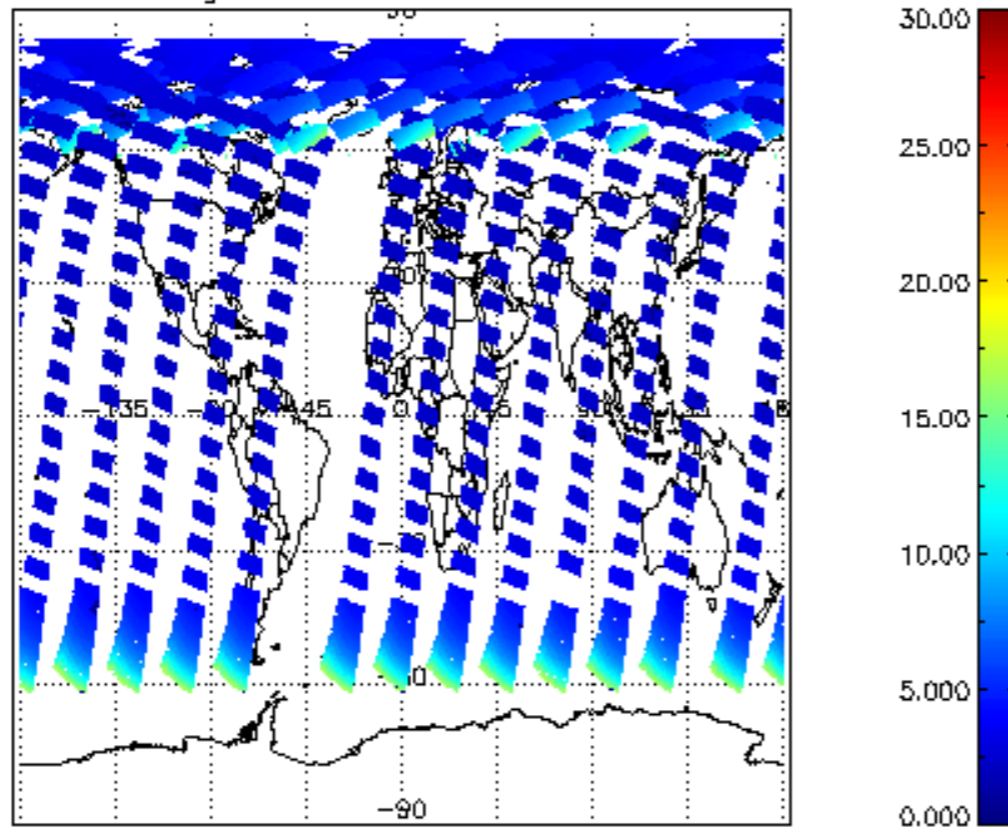
SCIOL2P_NADUV1NO2_vcd for 14JUL2009 00:00:00 to 15JUL2009 00:00:00



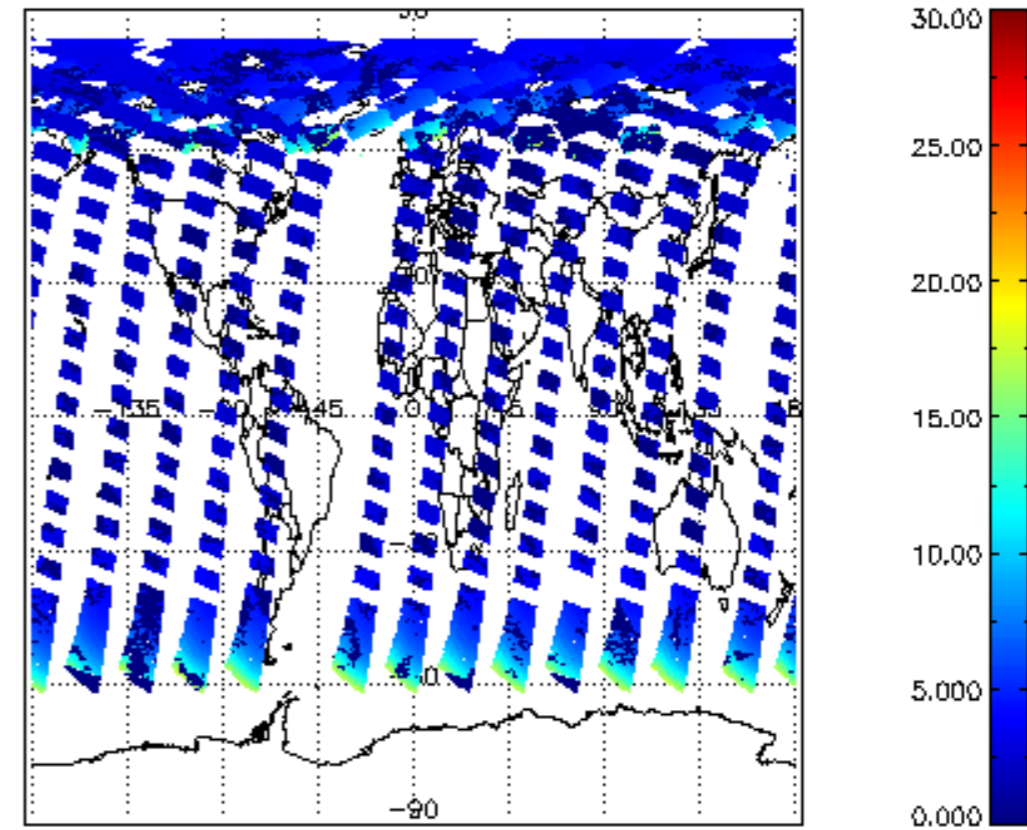
SCIOL2P_NADUV1NO2_vcd_err for 14JUL2009 00:00:00 to 15JUL2009 00:00:00



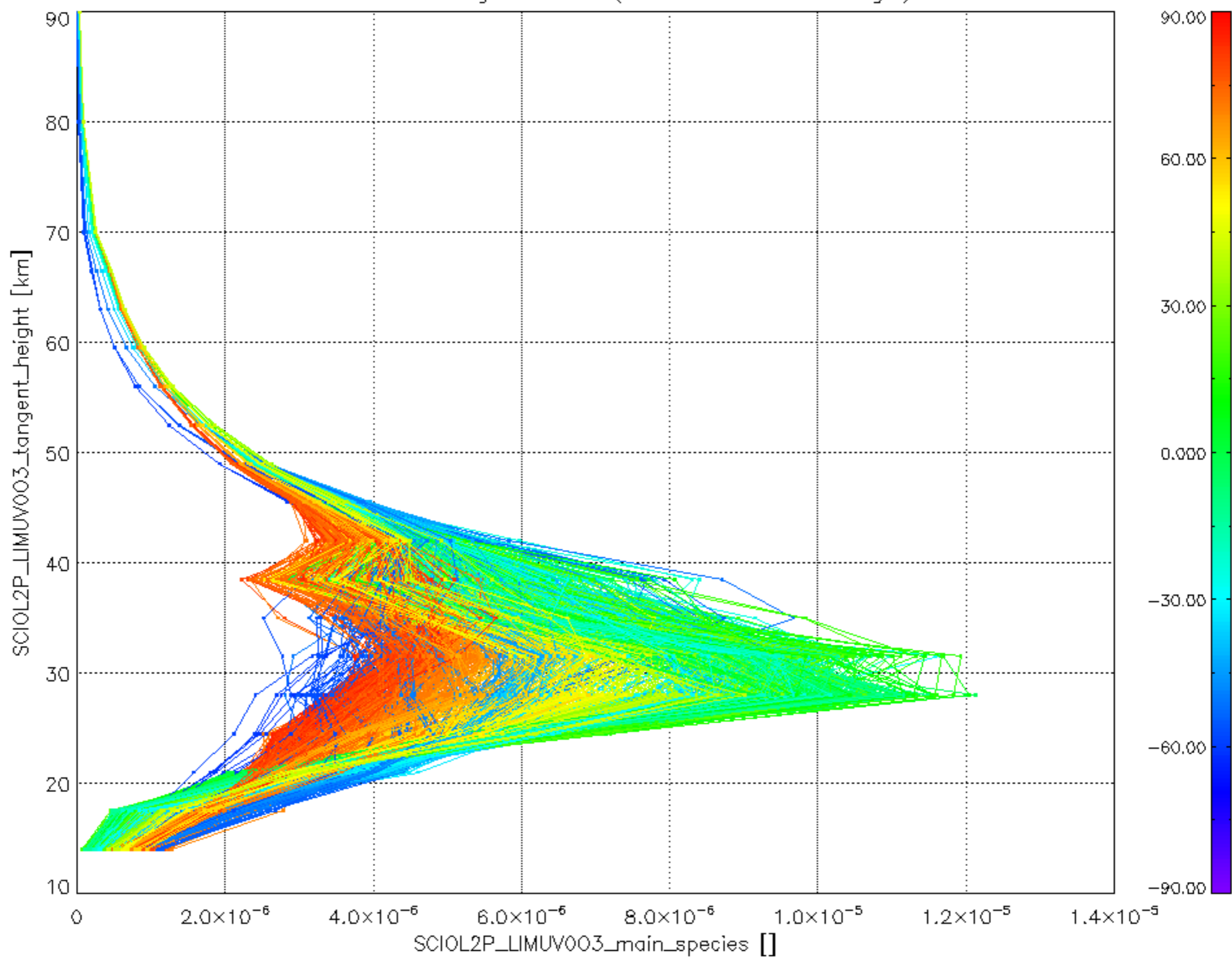
SCIOL2P_NADUV1NO2_amf_gr for 14JUL2009 00:00:00 to 15JUL2009 00:00:00



SCIOL2P_NADUV1NO2_amf_cl for 14JUL2009 00:00:00 to 15JUL2009 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).

