

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	09DEC2009 13:58:18
Data source version	SCIA-OL/3.01-R
Processing scope for products	25AUG2009 00:00:00 to 26AUG2009 00:00:00
Start time of first product within scope	24AUG2009 23:55:28
Stop time of last product within scope	26AUG2009 00:20:19
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__2PRDPA20090824_235528_000033812082_00002_39134_3945.N1	24AUG2009 23:55:28	25AUG2009 00:51:49	0	GOOD
1	SCI_OL__2PRDPA20090825_013604_000033252082_00003_39135_3946.N1	25AUG2009 01:36:04	25AUG2009 02:31:30	0	GOOD
2	SCI_OL__2PRDPA20090825_031641_000033812082_00004_39136_3947.N1	25AUG2009 03:16:41	25AUG2009 04:13:02	0	GOOD
3	SCI_OL__2PRDPA20090825_045717_000033252082_00005_39137_3950.N1	25AUG2009 04:57:17	25AUG2009 05:52:43	0	GOOD
4	SCI_OL__2PRDPA20090825_063753_000033812082_00006_39138_3951.N1	25AUG2009 06:37:53	25AUG2009 07:34:15	0	GOOD
5	SCI_OL__2PRDPA20090825_081830_000033252082_00007_39139_3953.N1	25AUG2009 08:18:30	25AUG2009 09:13:55	0	GOOD
6	SCI_OL__2PRDPA20090825_095906_000033812082_00008_39140_3954.N1	25AUG2009 09:59:06	25AUG2009 10:55:28	0	GOOD
7	SCI_OL__2PRDPA20090825_113942_000033252082_00009_39141_3955.N1	25AUG2009 11:39:42	25AUG2009 12:35:08	0	GOOD
8	SCI_OL__2PRDPA20090825_132019_000033812082_00010_39142_3956.N1	25AUG2009 13:20:19	25AUG2009 14:16:40	0	GOOD
9	SCI_OL__2PRDPA20090825_150055_000033252082_00011_39143_3959.N1	25AUG2009 15:00:55	25AUG2009 15:56:21	0	GOOD
10	SCI_OL__2PRDPA20090825_164132_000033812082_00012_39144_3952.N1	25AUG2009 16:41:32	25AUG2009 17:37:53	0	GOOD
11	SCI_OL__2PRDPA20090825_182203_000033762082_00013_39145_3957.N1	25AUG2009 18:22:03	25AUG2009 19:18:19	0	GOOD
12	SCI_OL__2PRDPA20090825_200304_000033122082_00014_39146_3958.N1	25AUG2009 20:03:04	25AUG2009 20:58:17	0	GOOD
13	SCI_OL__2PRDPA20090825_214321_000033252082_00015_39147_3960.N1	25AUG2009 21:43:21	25AUG2009 22:38:46	0	GOOD
14	SCI_OL__2PRDPA20090825_232357_000033812082_00016_39148_3962.N1	25AUG2009 23:23:57	26AUG2009 00:20:19	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: 149716

Total number of cloud data DSRs with good quality flag (=0): 149716 (100.0 %)

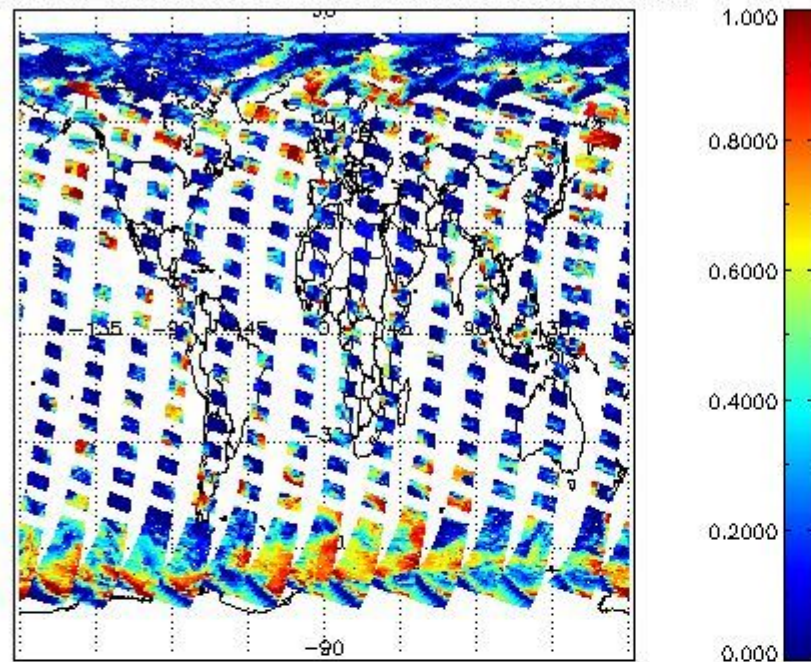
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	149716	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	149716	0.17035	0.12500	0.12500	0.25000	0.060102	s
CL_FRAC	149716	0.30282	0.22702	0.0000	1.0000	0.28808	-
CL_FRAC_ERR	149716	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	149716	5.4513	4.0000	4.0000	8.0000	1.9233	
PMD_READ_CL[0]	149716	0.16174	0.0000	0.0000	8.0000	0.91996	-
PMD_READ_CL[1]	149716	1.7414	0.0000	0.0000	8.0000	2.6293	-
CL_TOP_HEIGHT	129313	3.3863	1.5350	0.0000	17.000	3.9186	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	129313	59.403	100.00	0.0000	101.00	44.720	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	149716	11100000	11100000	11100000	11100000	0.0000	flags
CLOUD_FLAGS	149716	11001101	11000100	11000000	11100000	3558.1	flags
AERO_ABSO_IND	149716	4.2415	5.1625	-0.23371	19.470	2.7819	
AERO_IND_DIAG	149716	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	149716	01010111	00000000	00000000	11000000	24483.	flags

Time and geolocation plots:

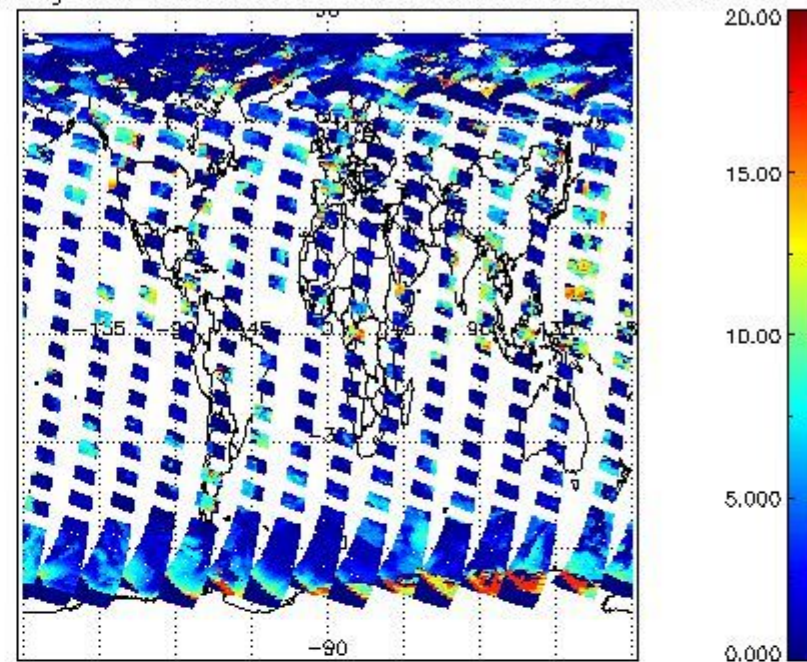
Plots are available for the following parameters:

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

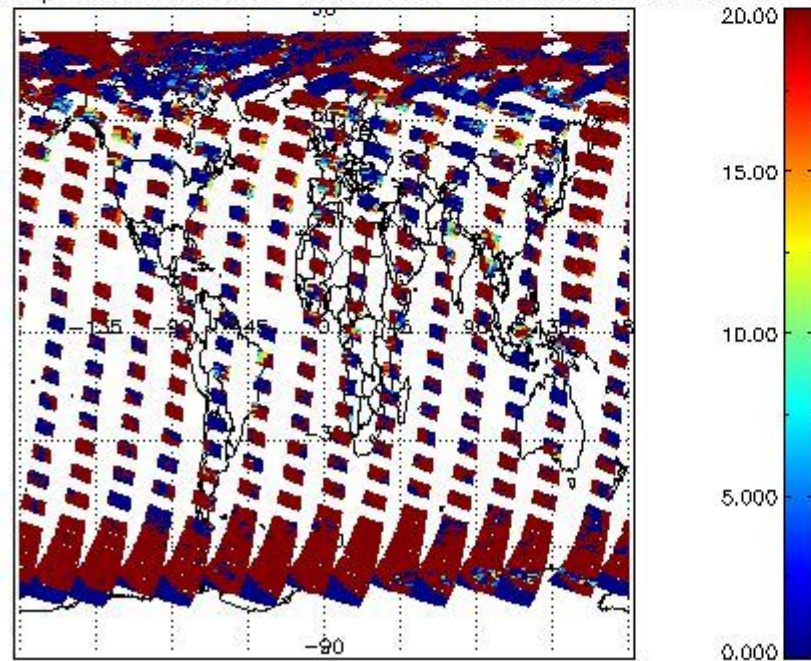
cL_frac for 25AUG2009 00:00:00 to 26AUG2009 00:00:00



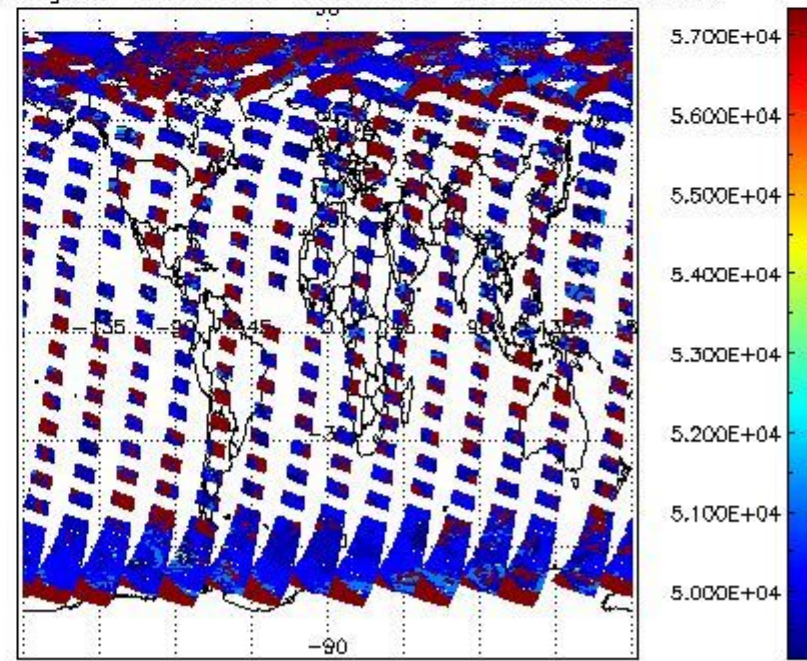
cL_top_height for 25AUG2009 00:00:00 to 26AUG2009 00:00:00



cL_opt_depth for 25AUG2009 00:00:00 to 26AUG2009 00:00:00



cloud_flags for 25AUG2009 00:00:00 to 26AUG2009 00:00:00



2.2.2 Nadir

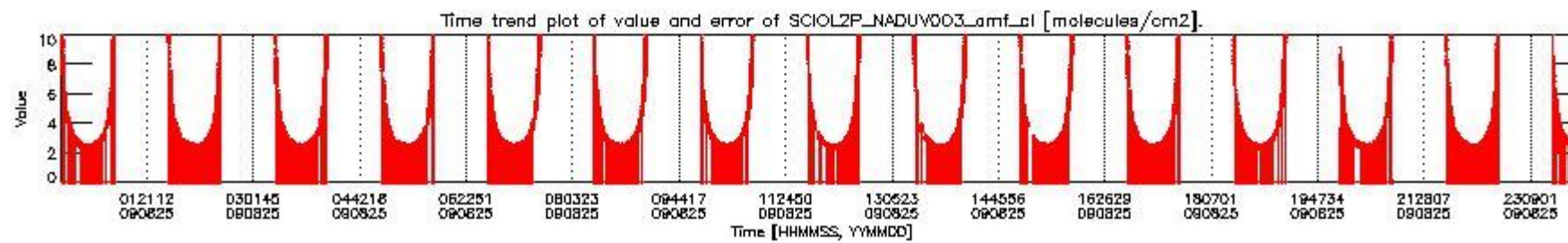
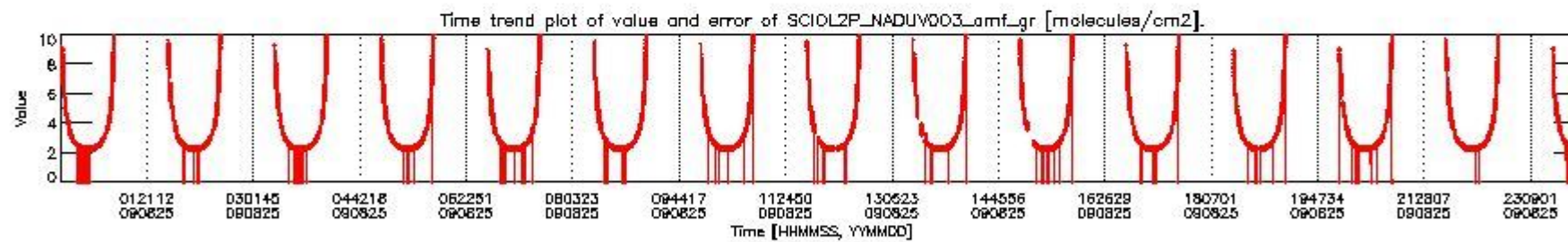
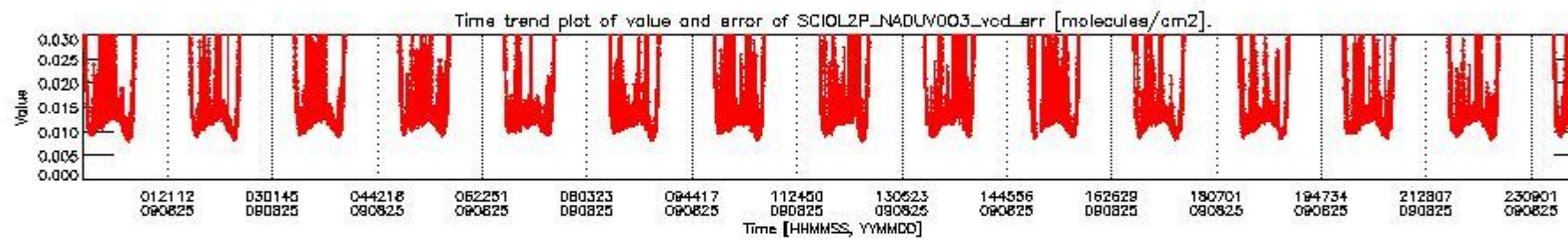
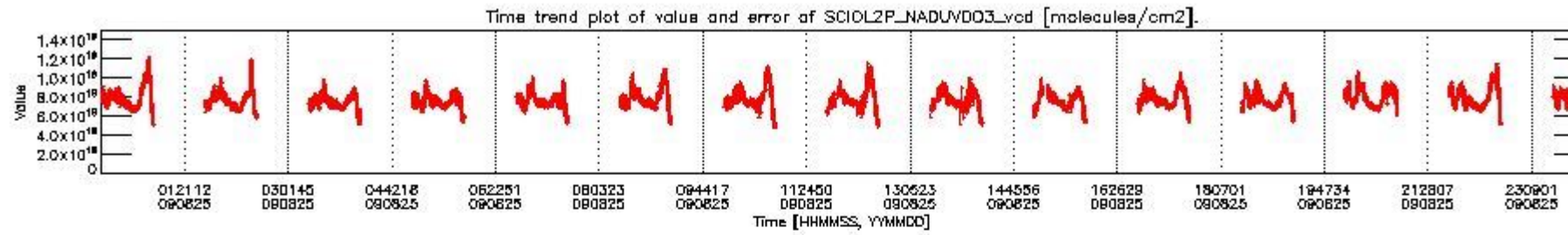
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

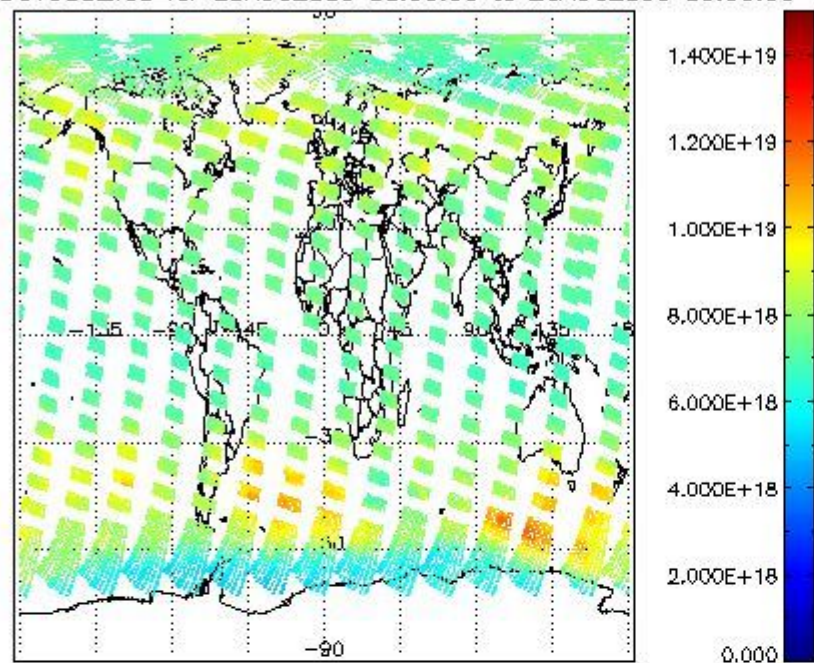
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

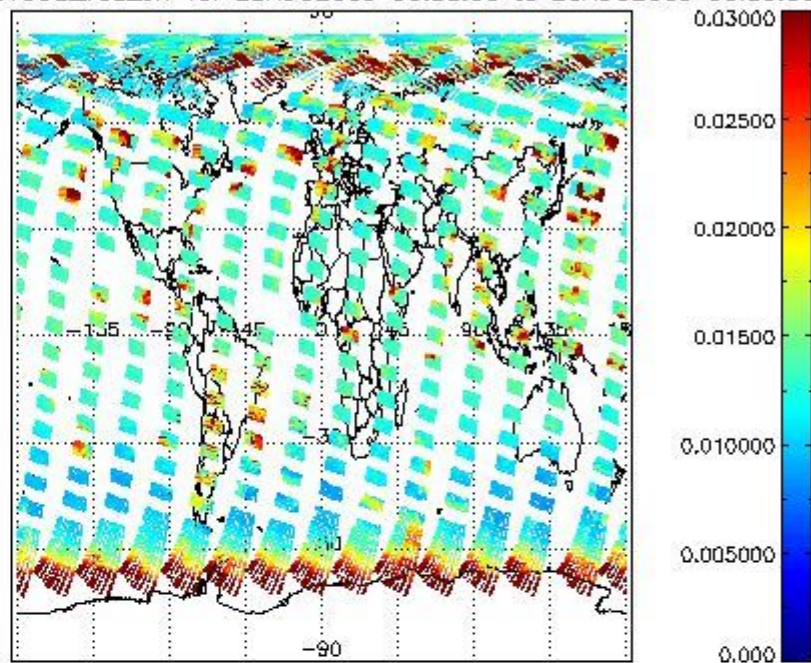
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



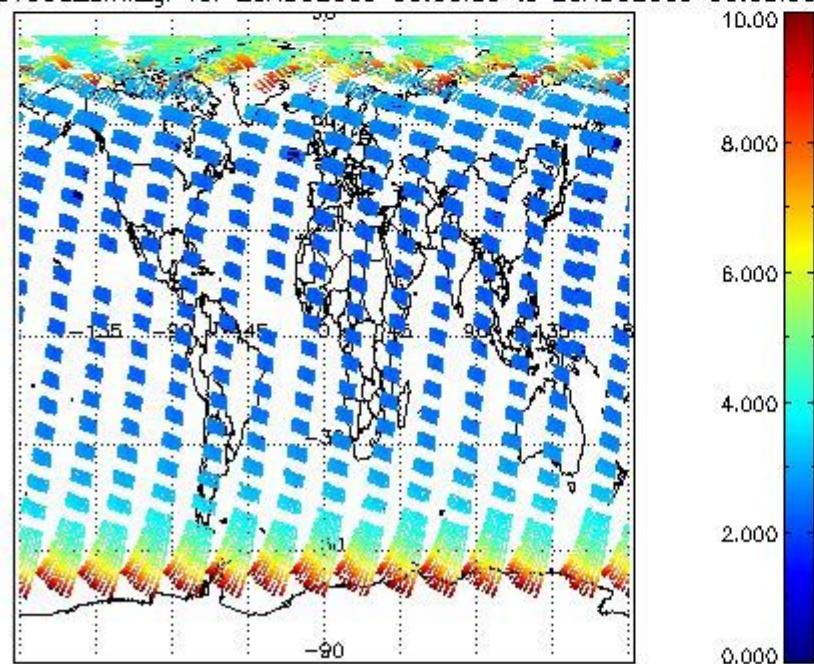
SCIOL2P_NADUV003_vcd for 25AUG2009 00:00:00 to 26AUG2009 00:00:00



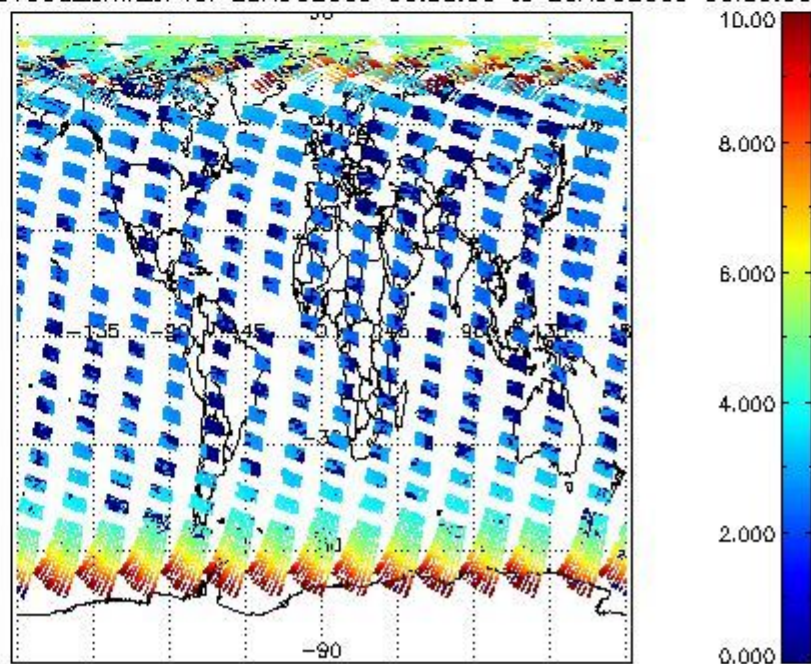
SCIOL2P_NADUV003_vcd_err for 25AUG2009 00:00:00 to 26AUG2009 00:00:00

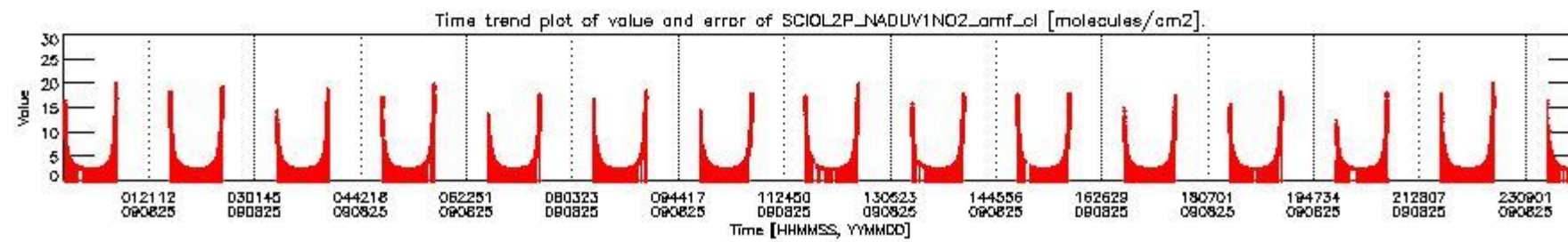
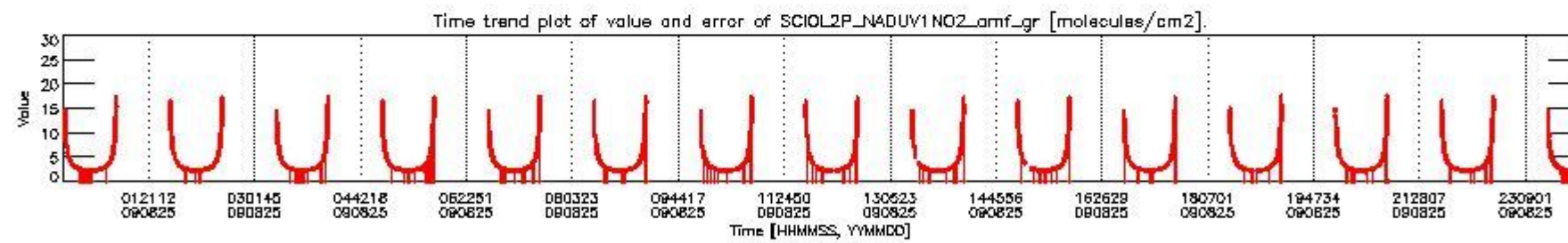
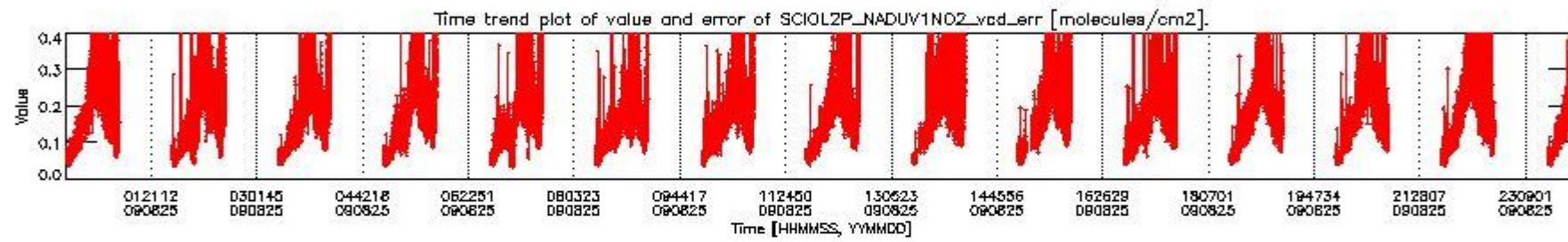
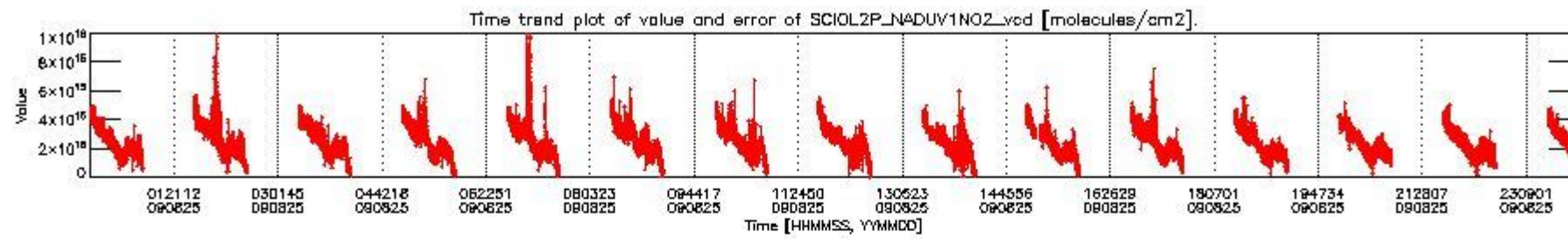


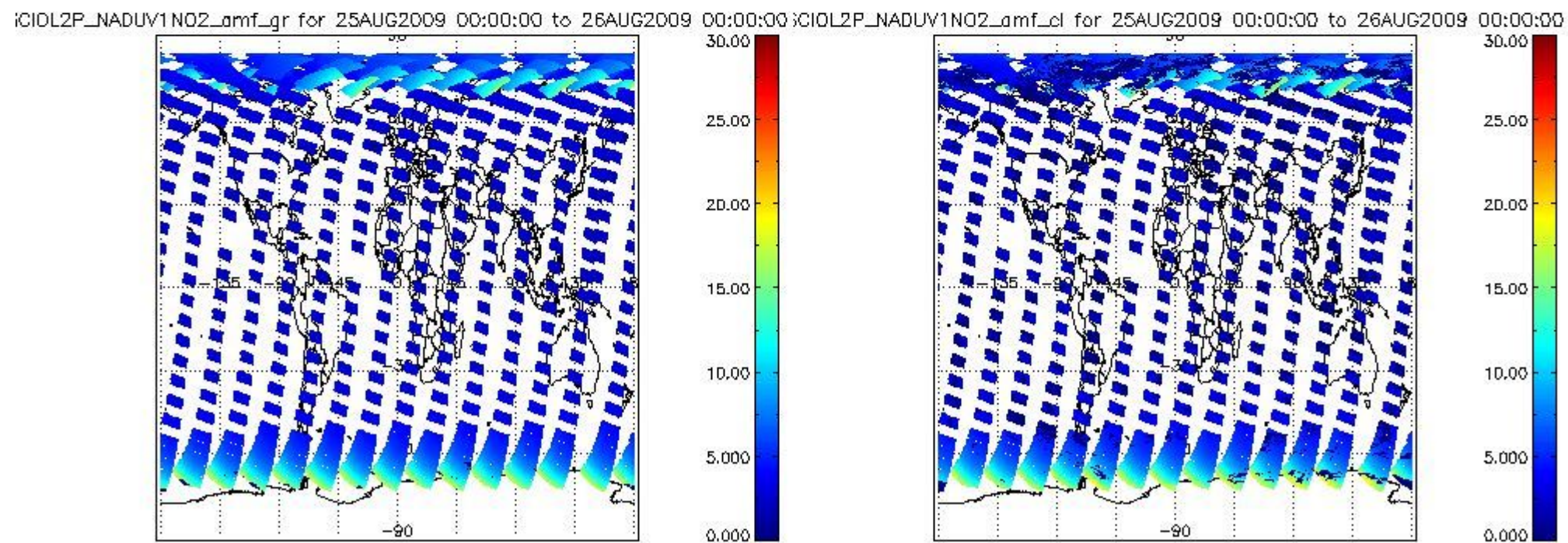
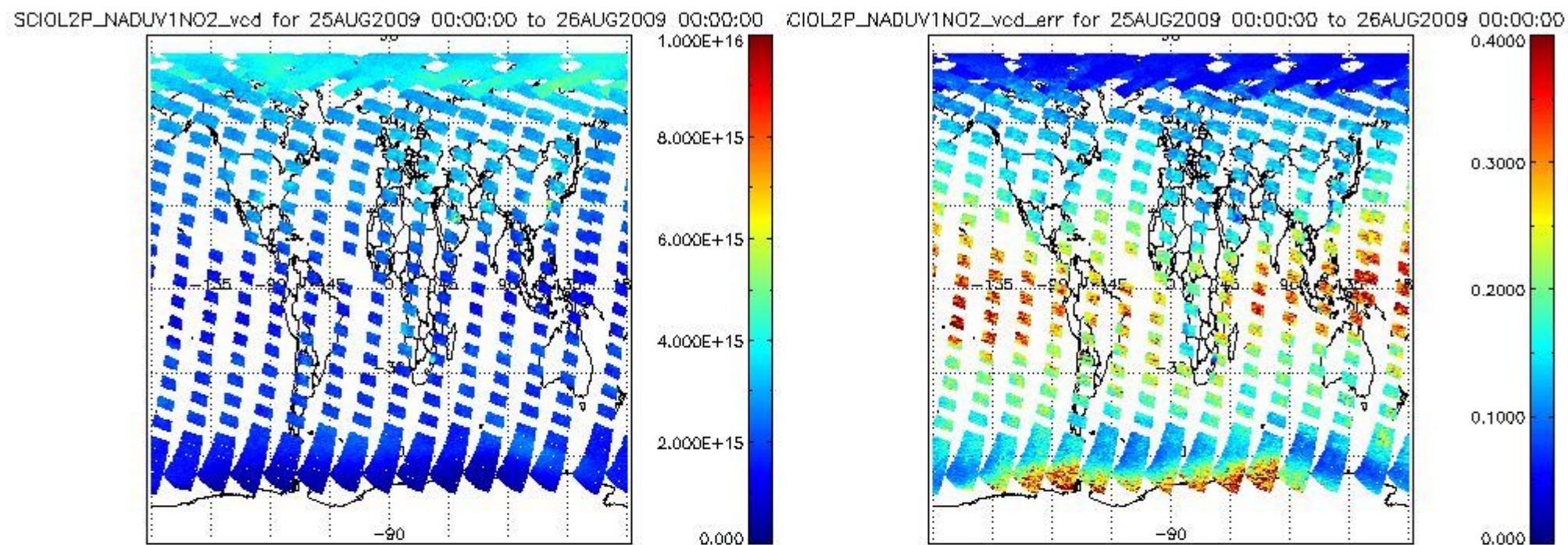
SCIOL2P_NADUV003_amf_gr for 25AUG2009 00:00:00 to 26AUG2009 00:00:00



SCIOL2P_NADUV003_amf_sl for 25AUG2009 00:00:00 to 26AUG2009 00:00:00







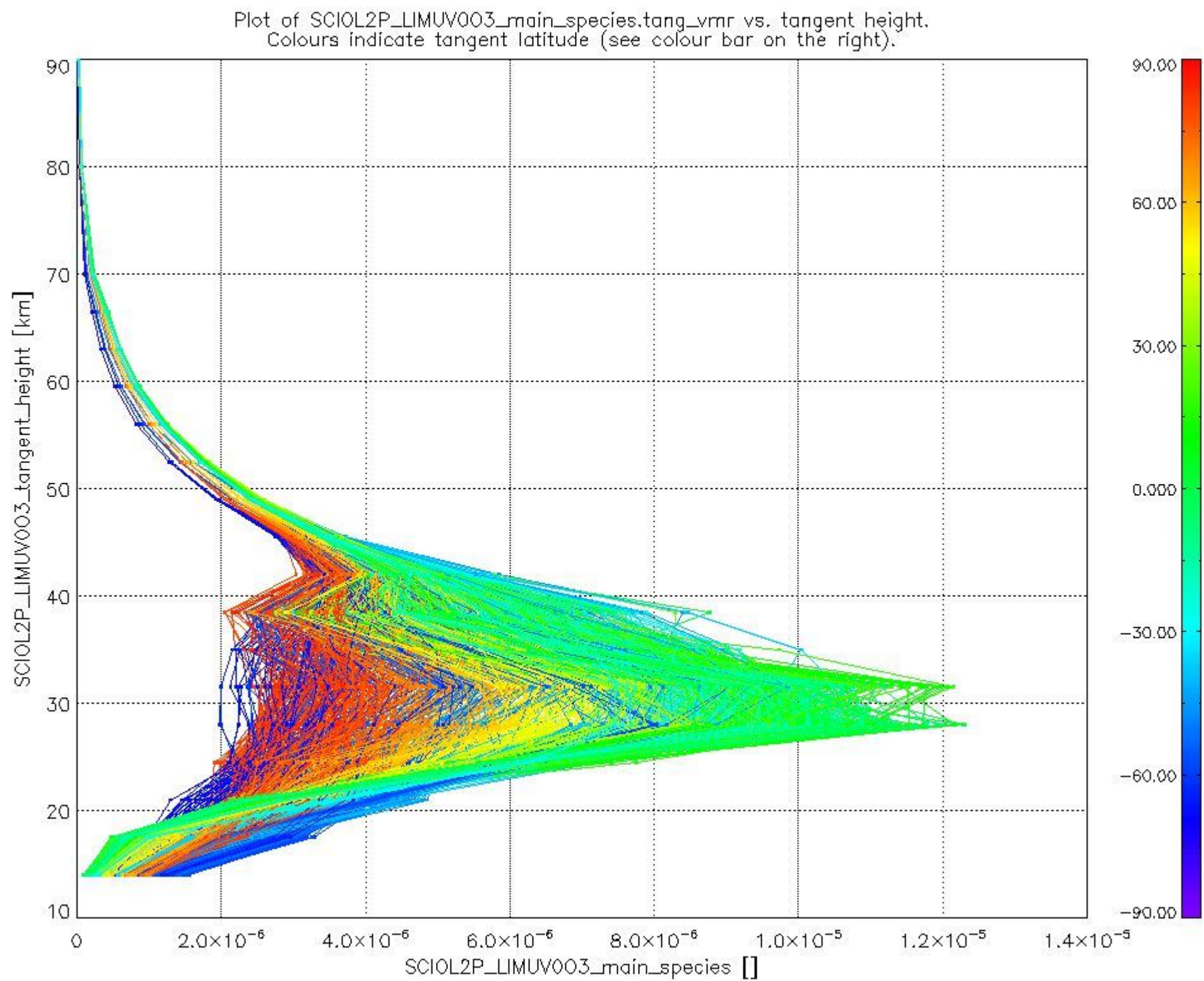
2.2.3 Limb

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

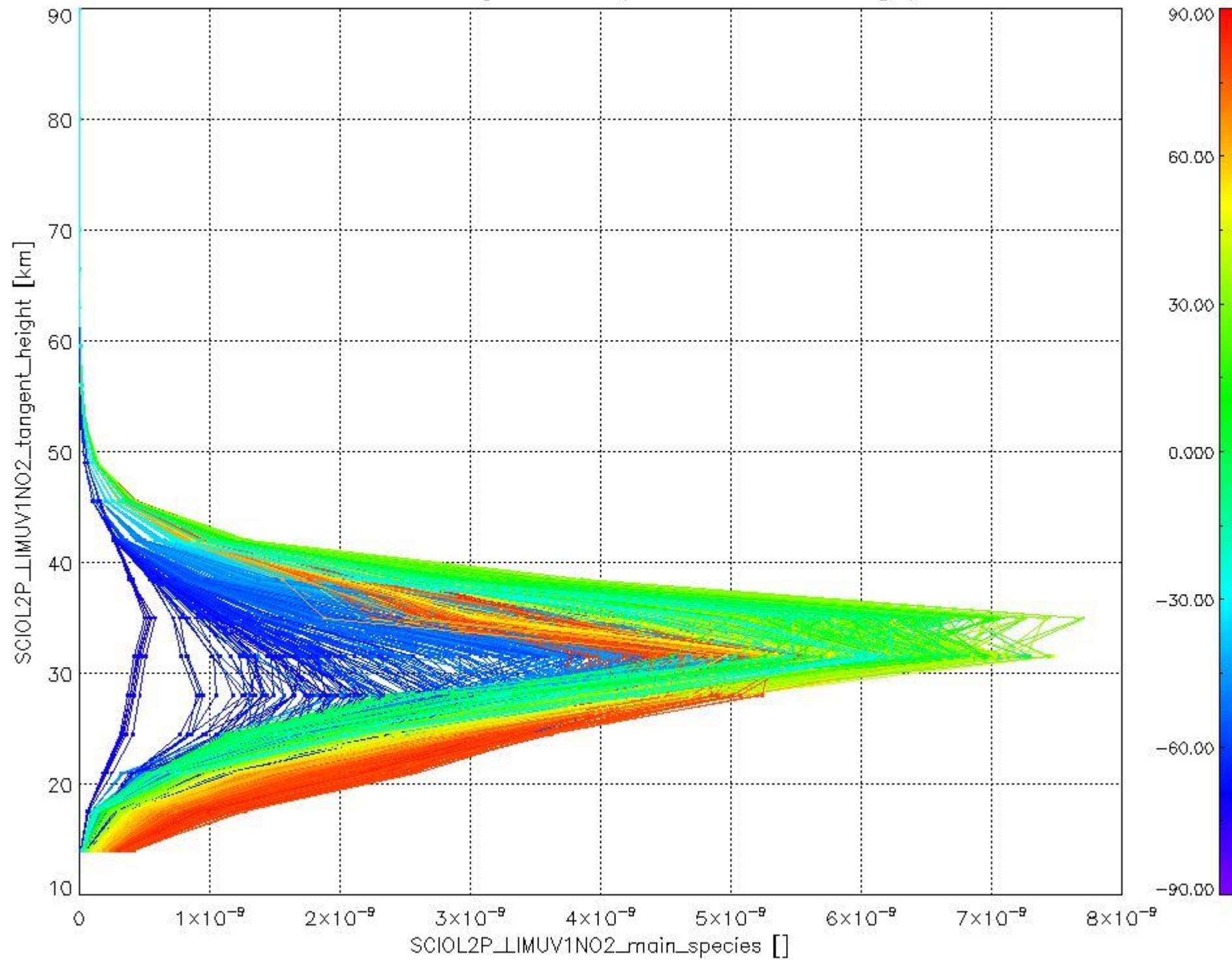
The following data items are currently included into this section:

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.



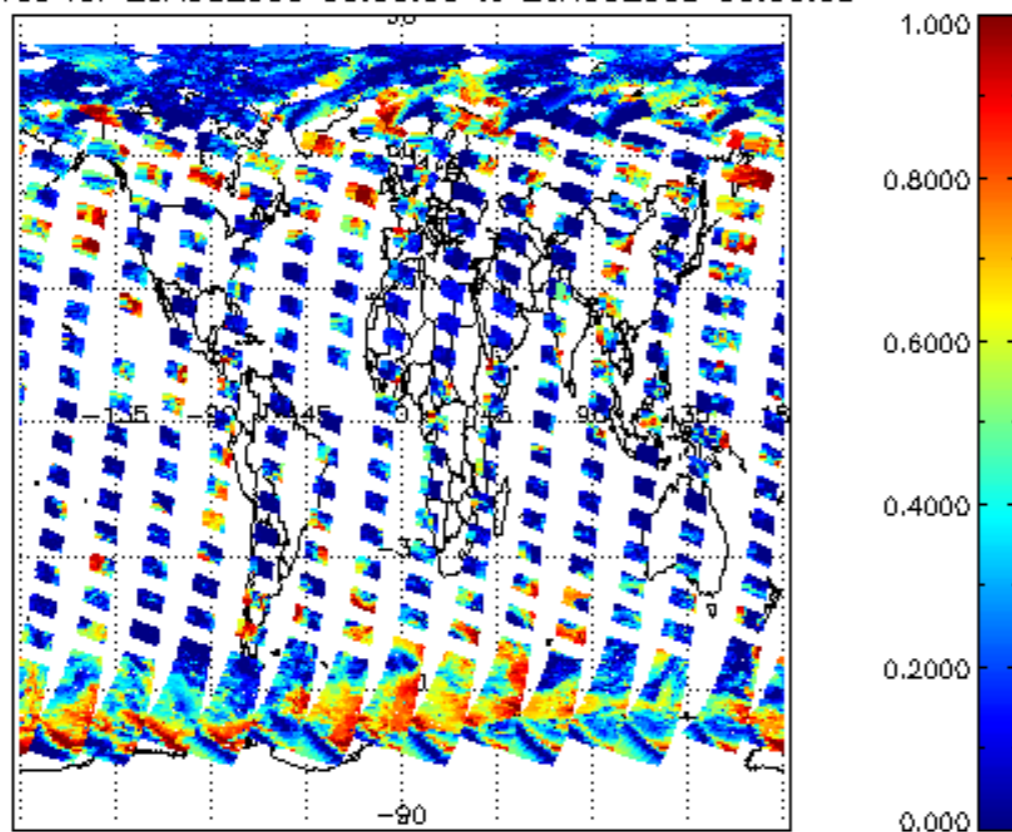
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



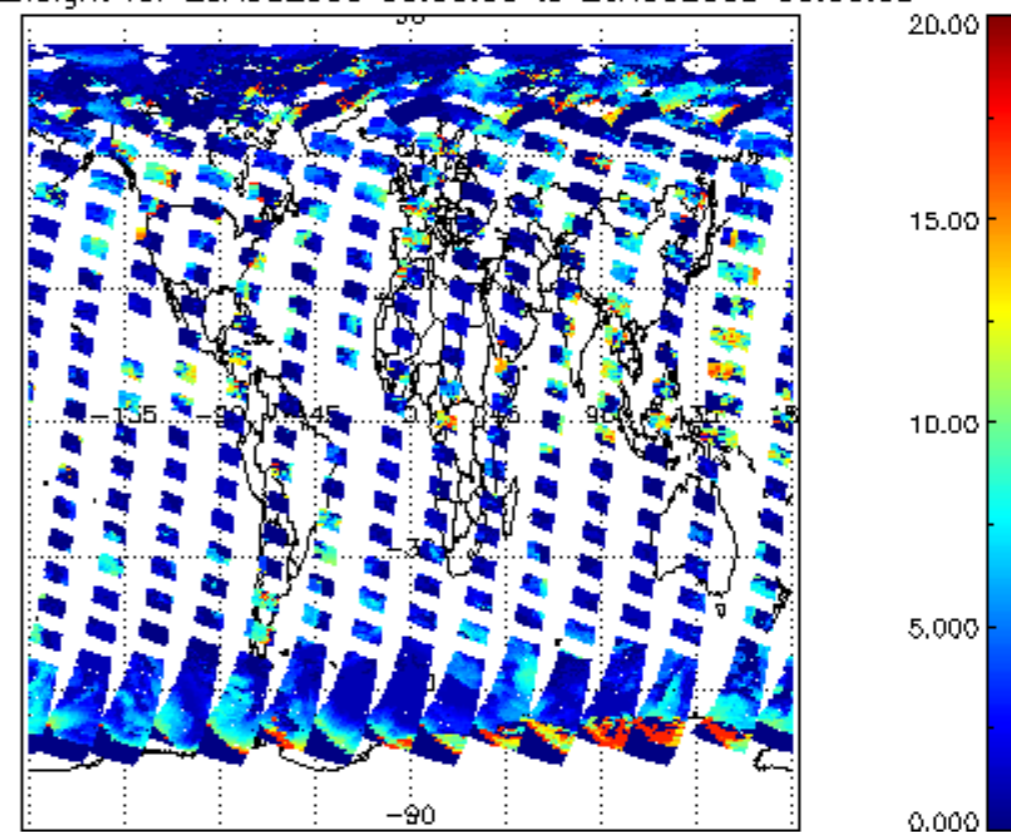
2.3 ADF monitoring

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

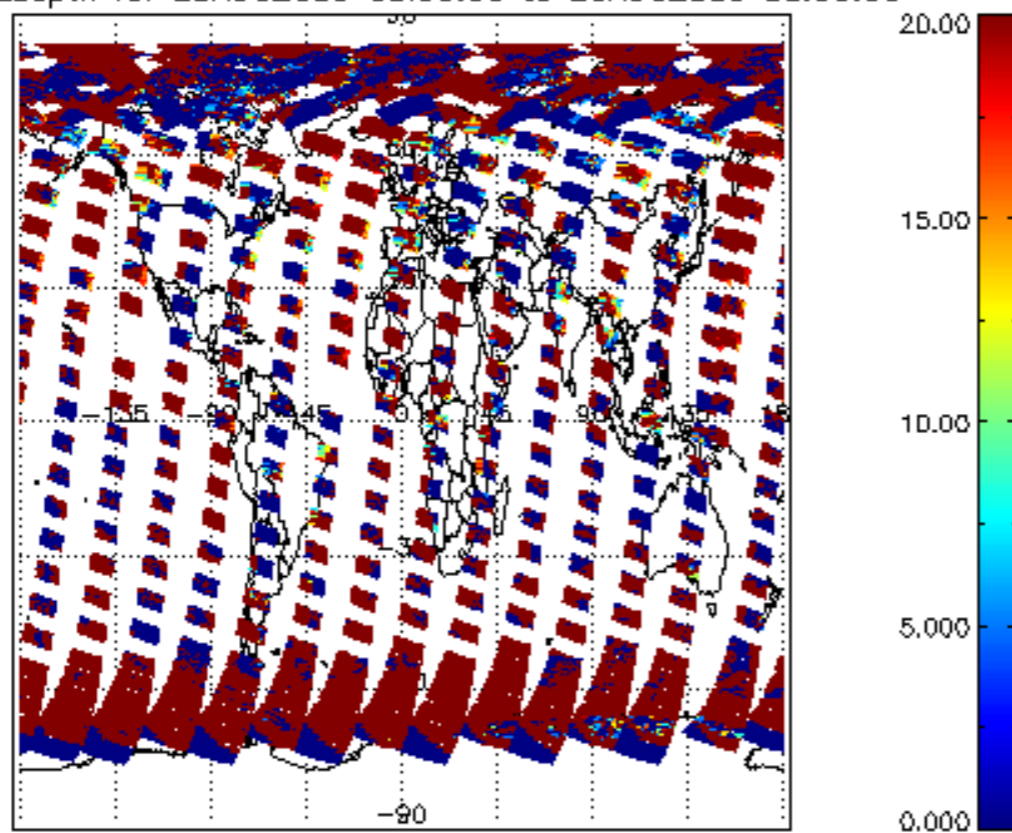
cL_frac for 25AUG2009 00:00:00 to 26AUG2009 00:00:00



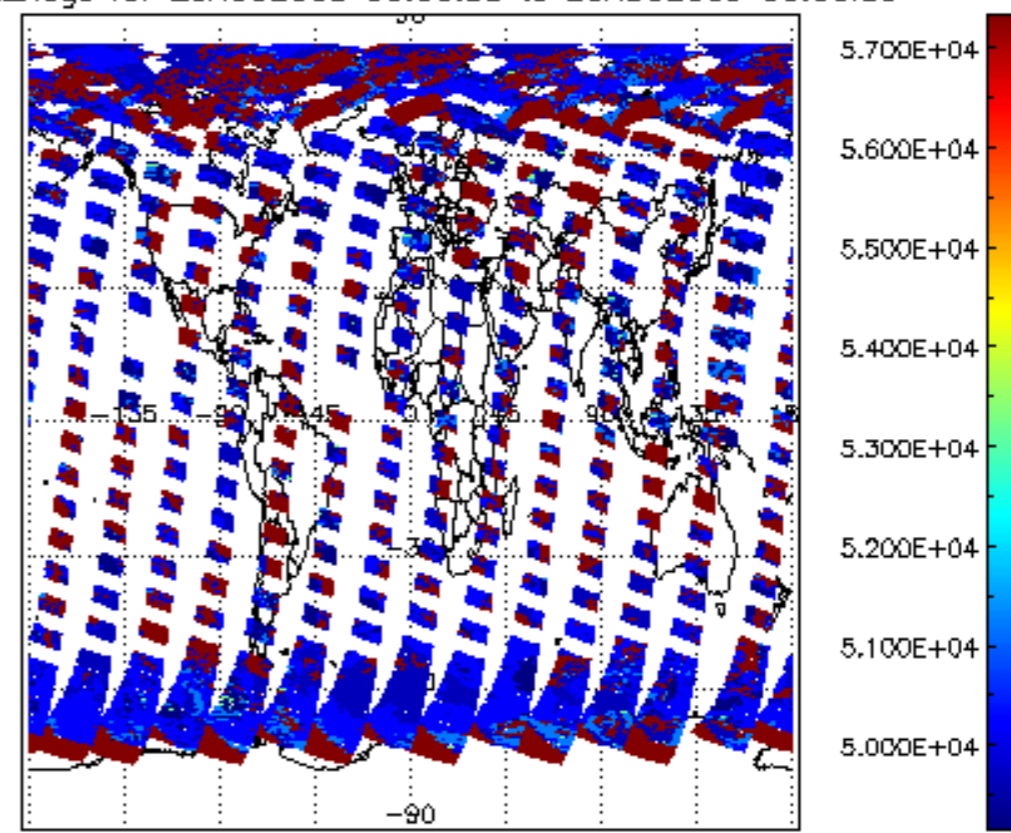
cL_top_height for 25AUG2009 00:00:00 to 26AUG2009 00:00:00

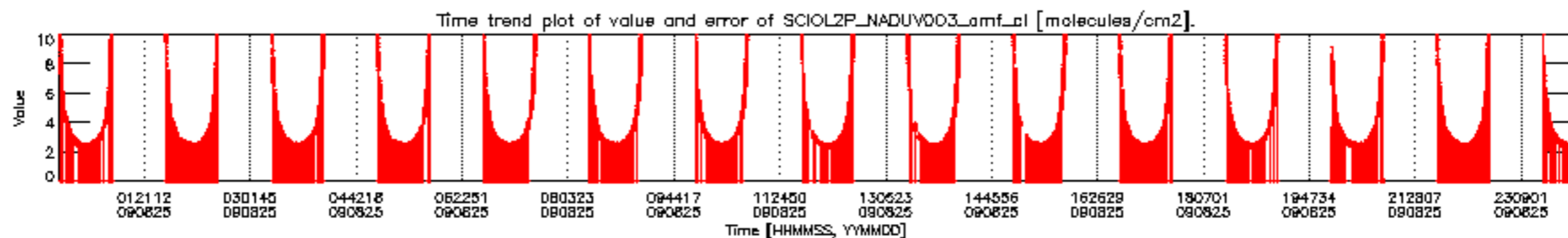
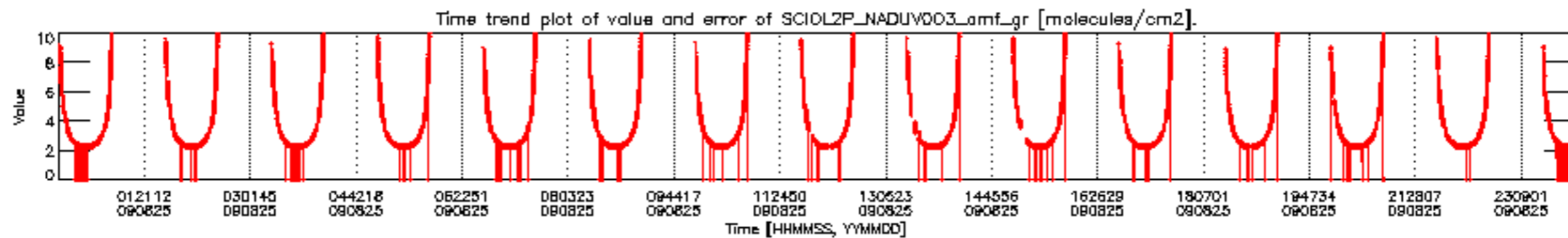
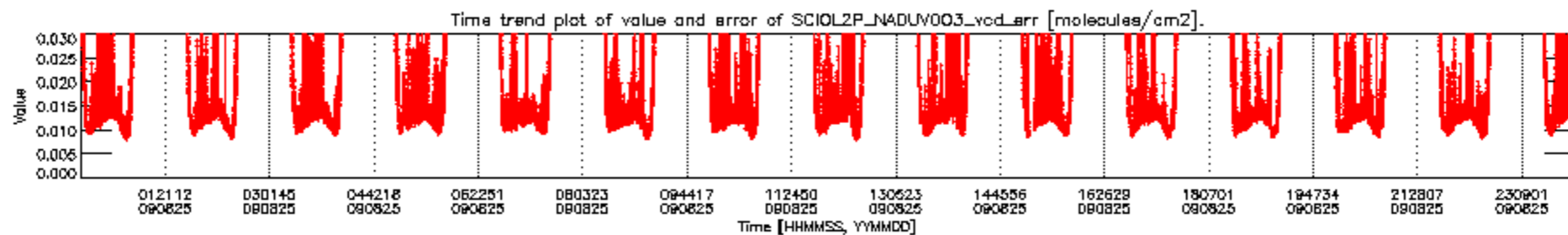
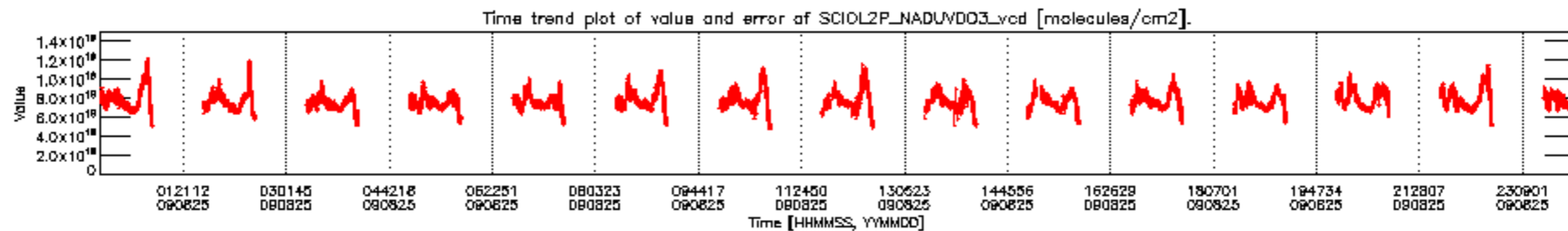


cL_opt_depth for 25AUG2009 00:00:00 to 26AUG2009 00:00:00

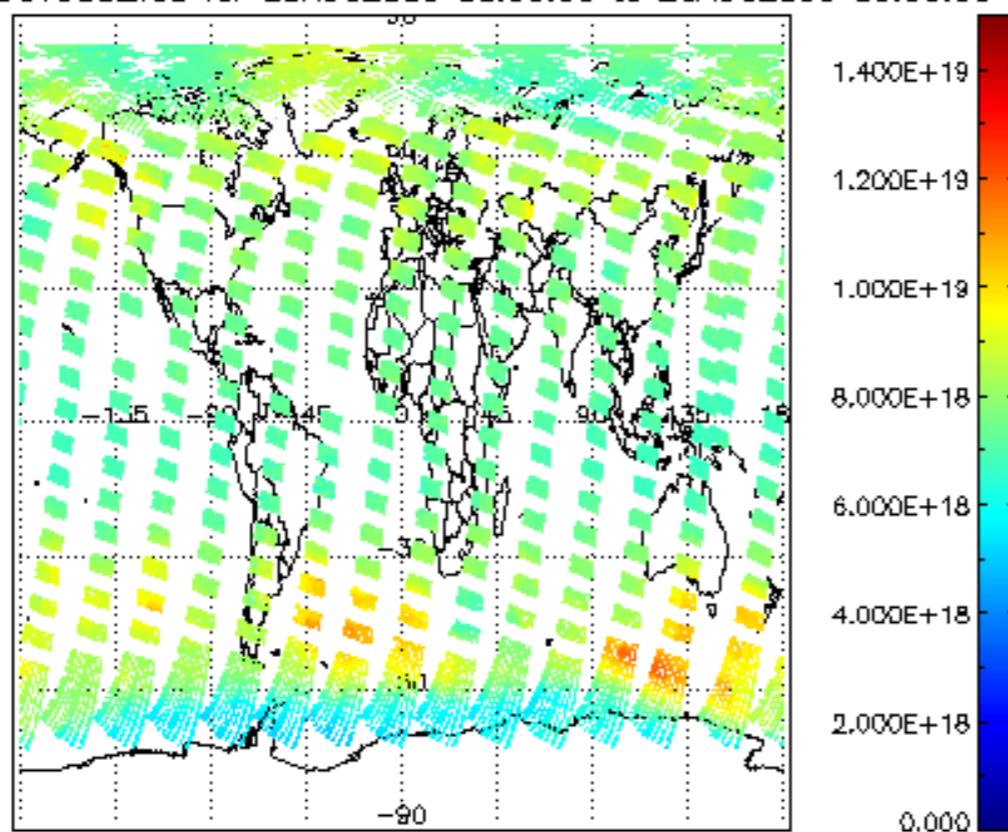


cloud_flags for 25AUG2009 00:00:00 to 26AUG2009 00:00:00

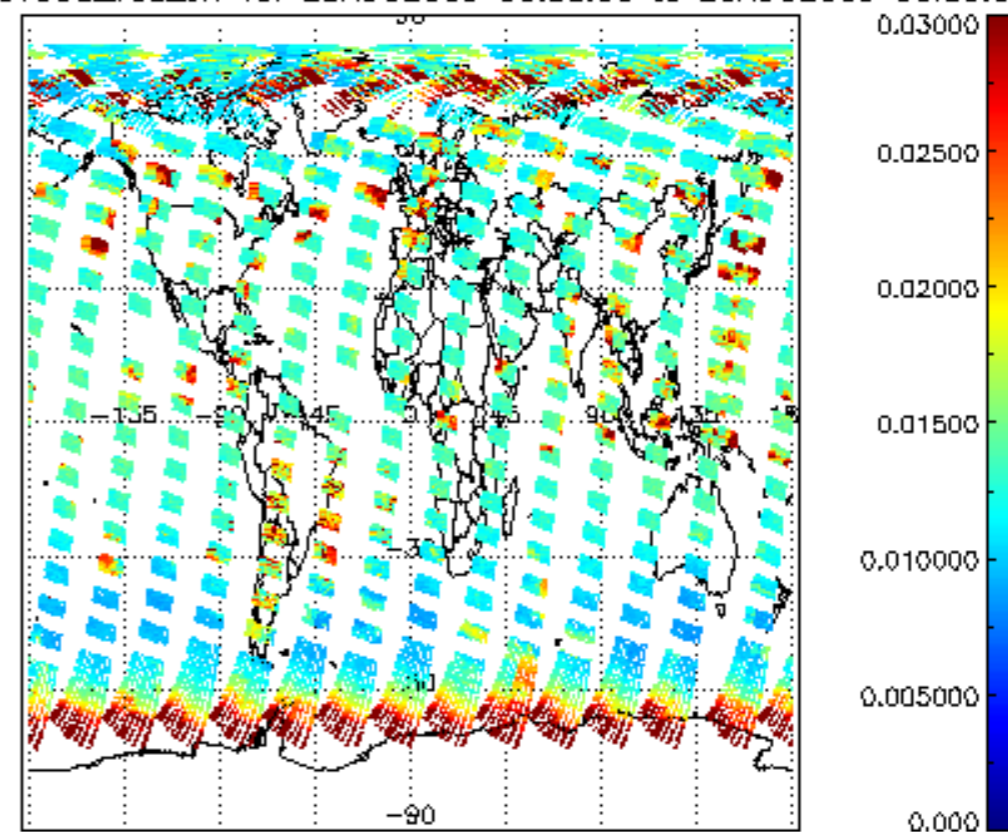




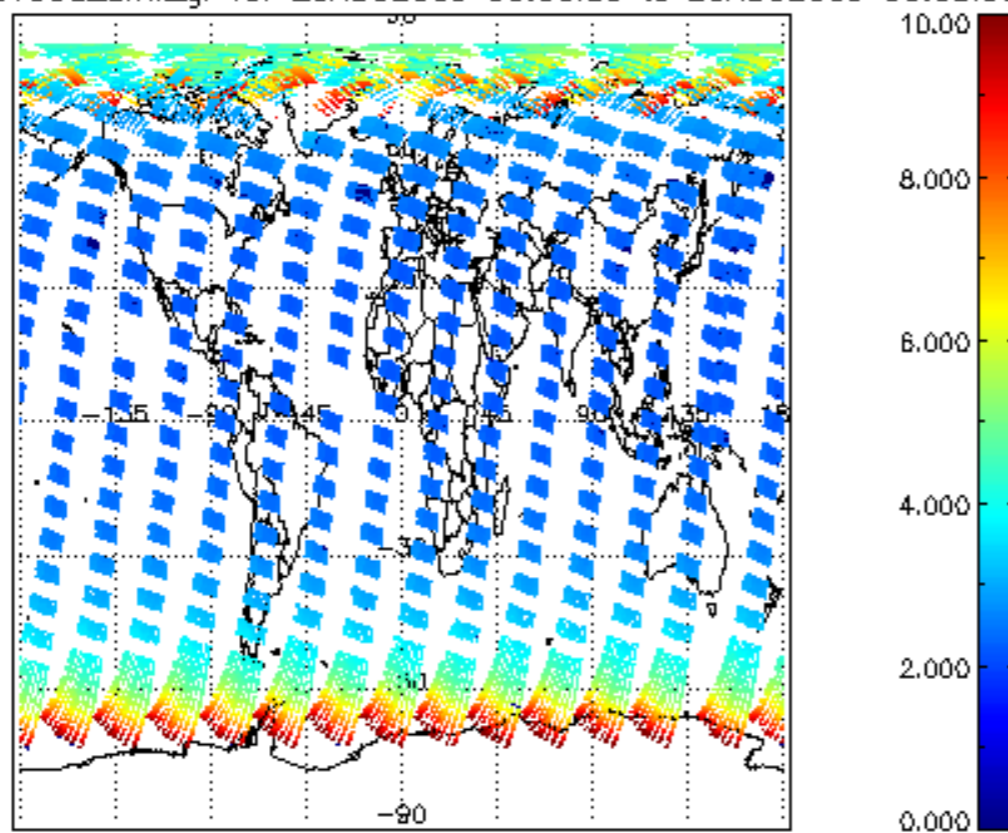
SCIOL2P_NADUV003_vcd for 25AUG2009 00:00:00 to 26AUG2009 00:00:00



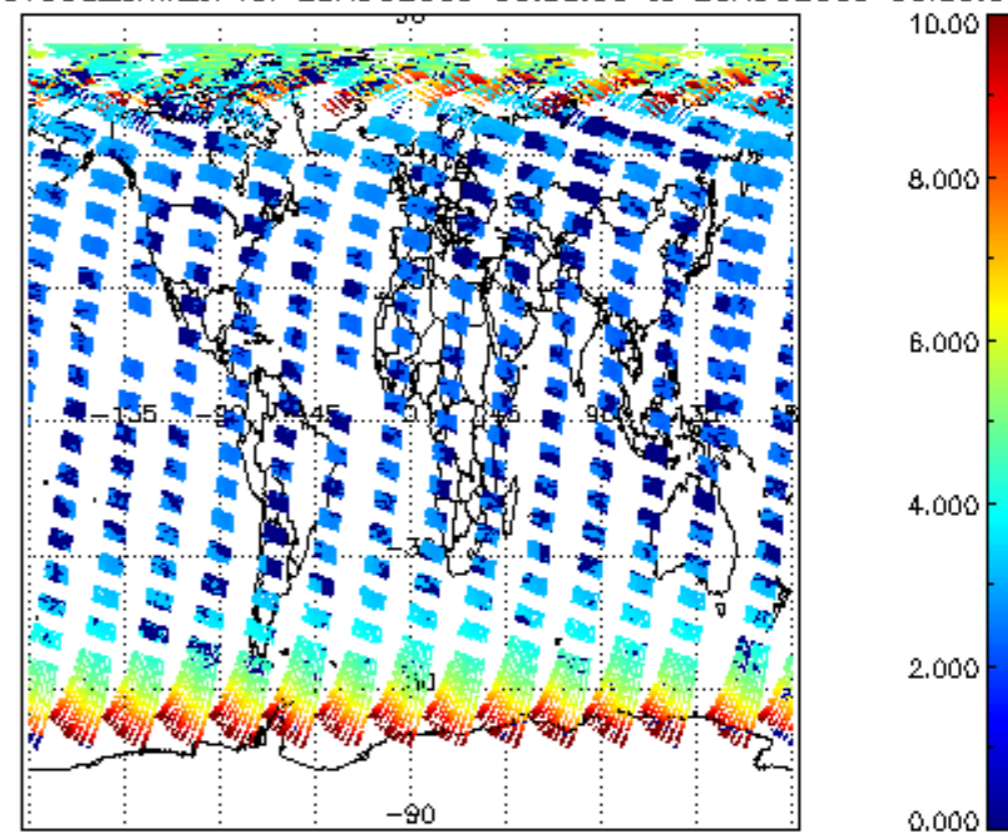
SCIOL2P_NADUV003_vcd_err for 25AUG2009 00:00:00 to 26AUG2009 00:00:00

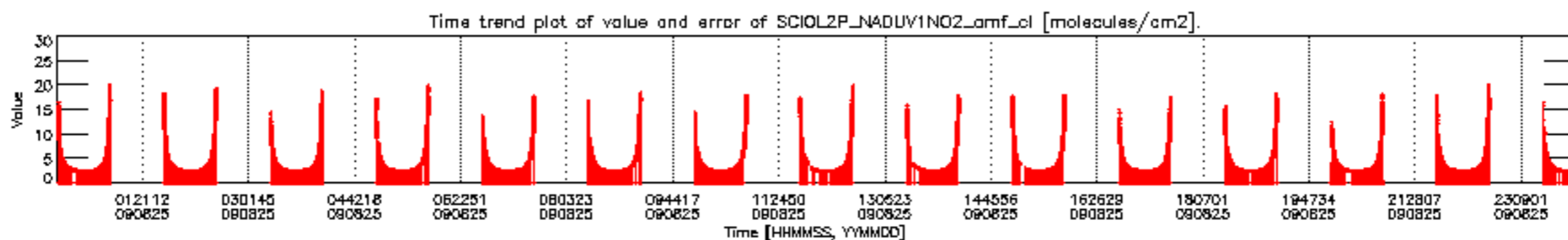
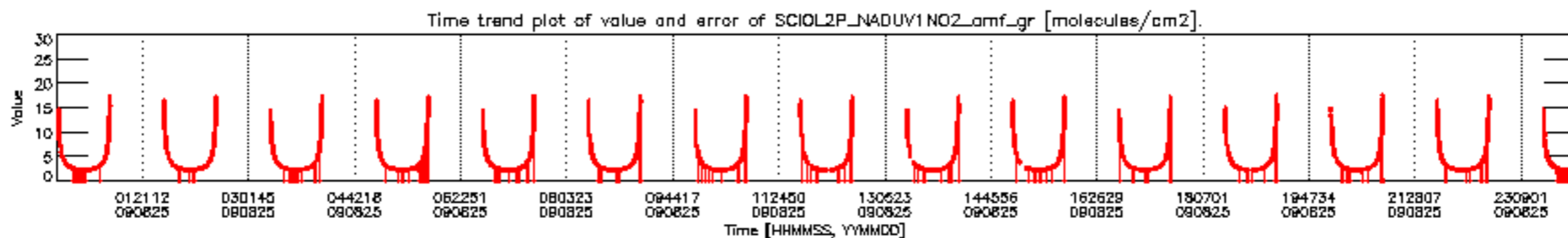
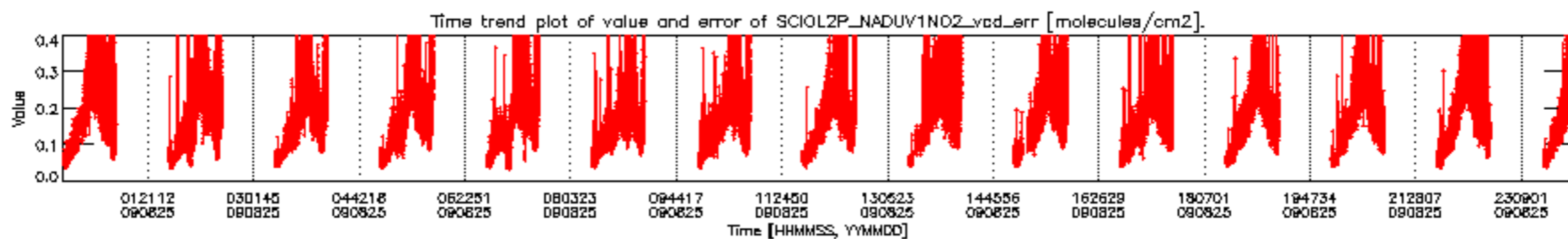
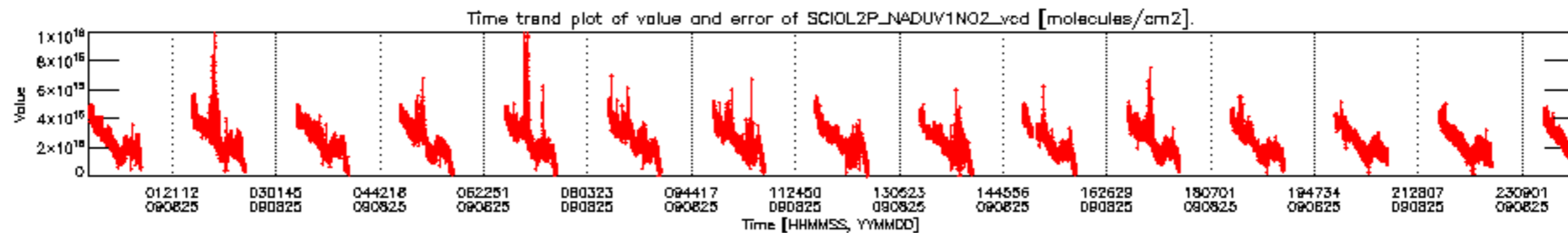


SCIOL2P_NADUV003_amf_gr for 25AUG2009 00:00:00 to 26AUG2009 00:00:00

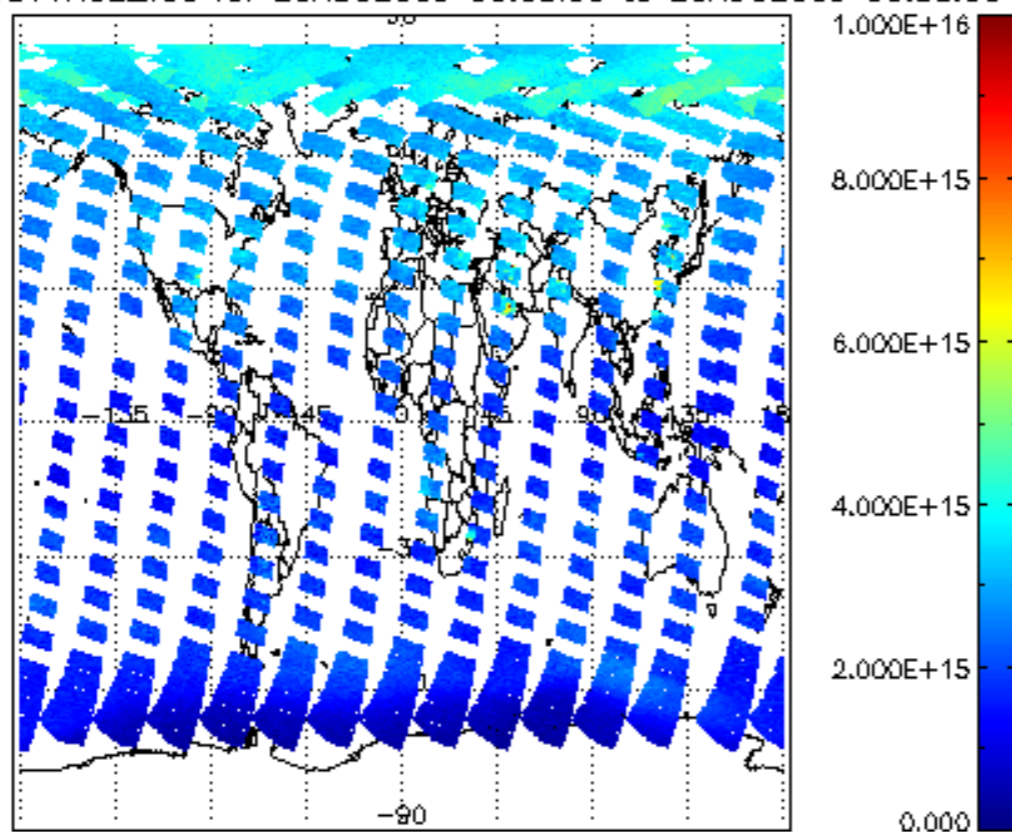


SCIOL2P_NADUV003_amf_cl for 25AUG2009 00:00:00 to 26AUG2009 00:00:00

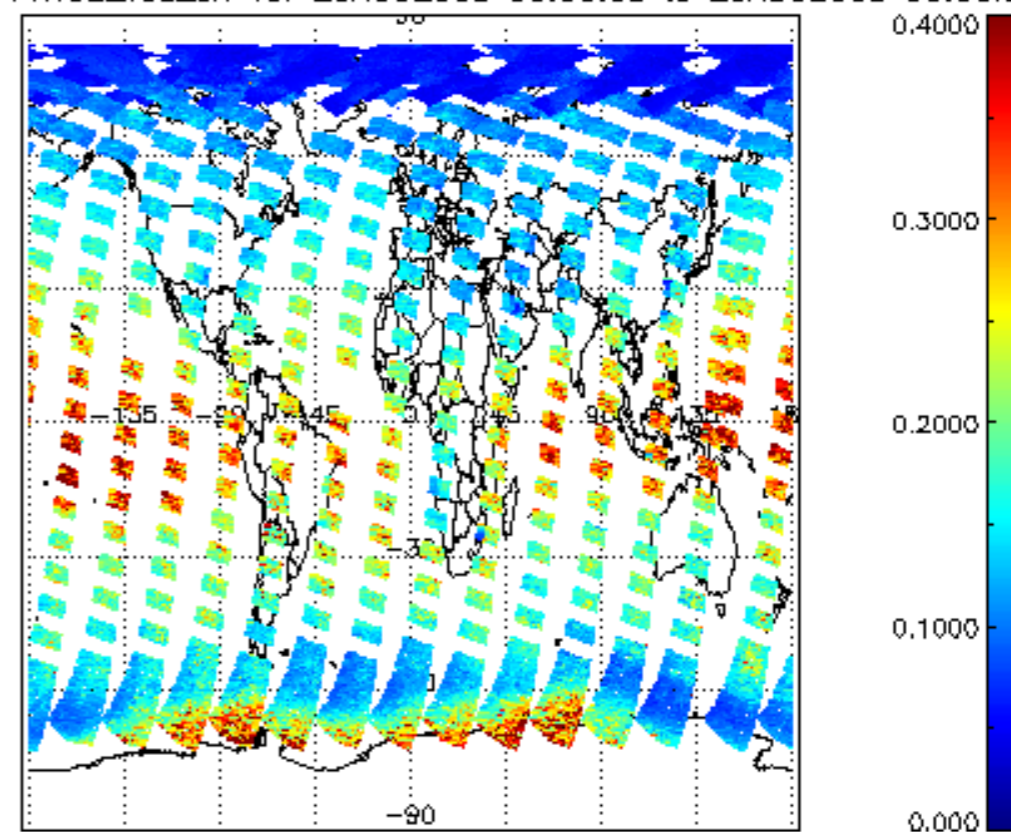




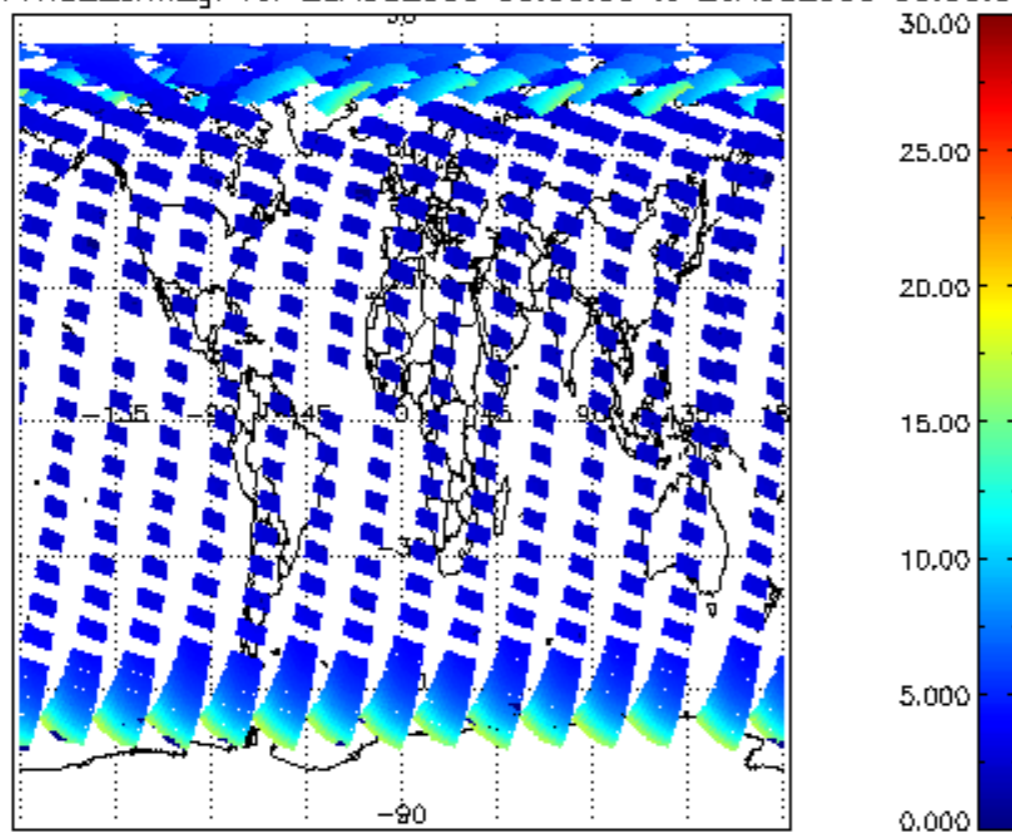
SCIOL2P_NADUV1NO2_vcd for 25AUG2009 00:00:00 to 26AUG2009 00:00:00



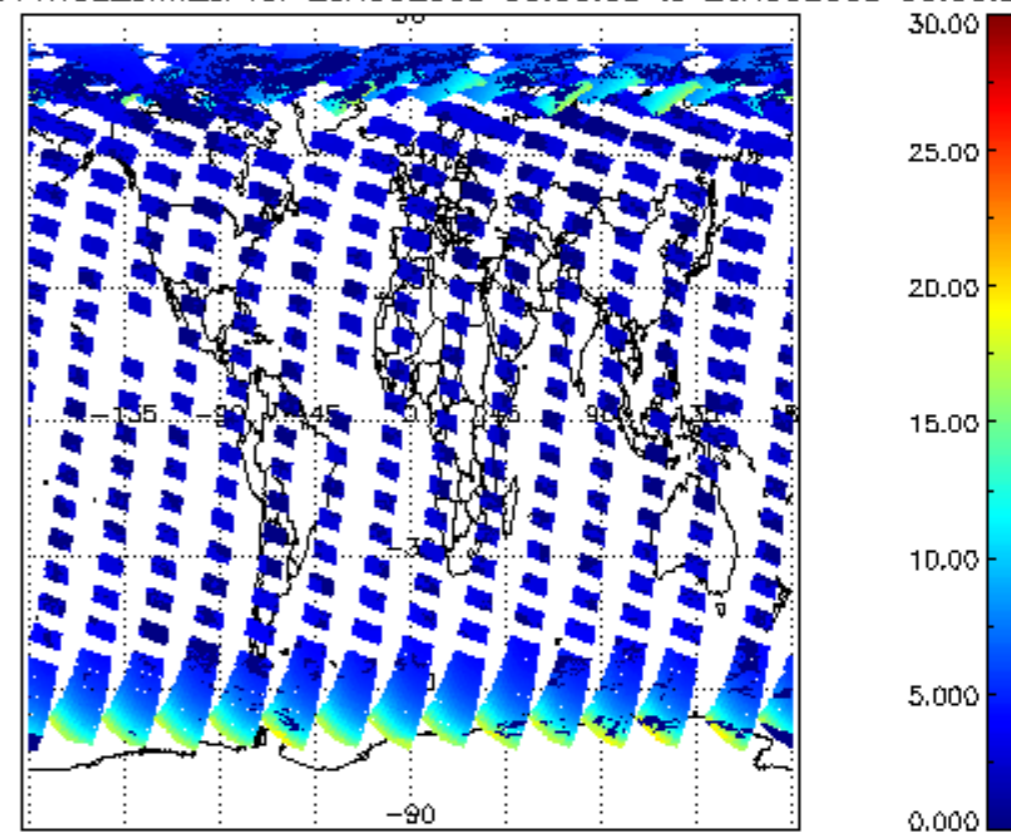
SCIOL2P_NADUV1NO2_vcd_err for 25AUG2009 00:00:00 to 26AUG2009 00:00:00



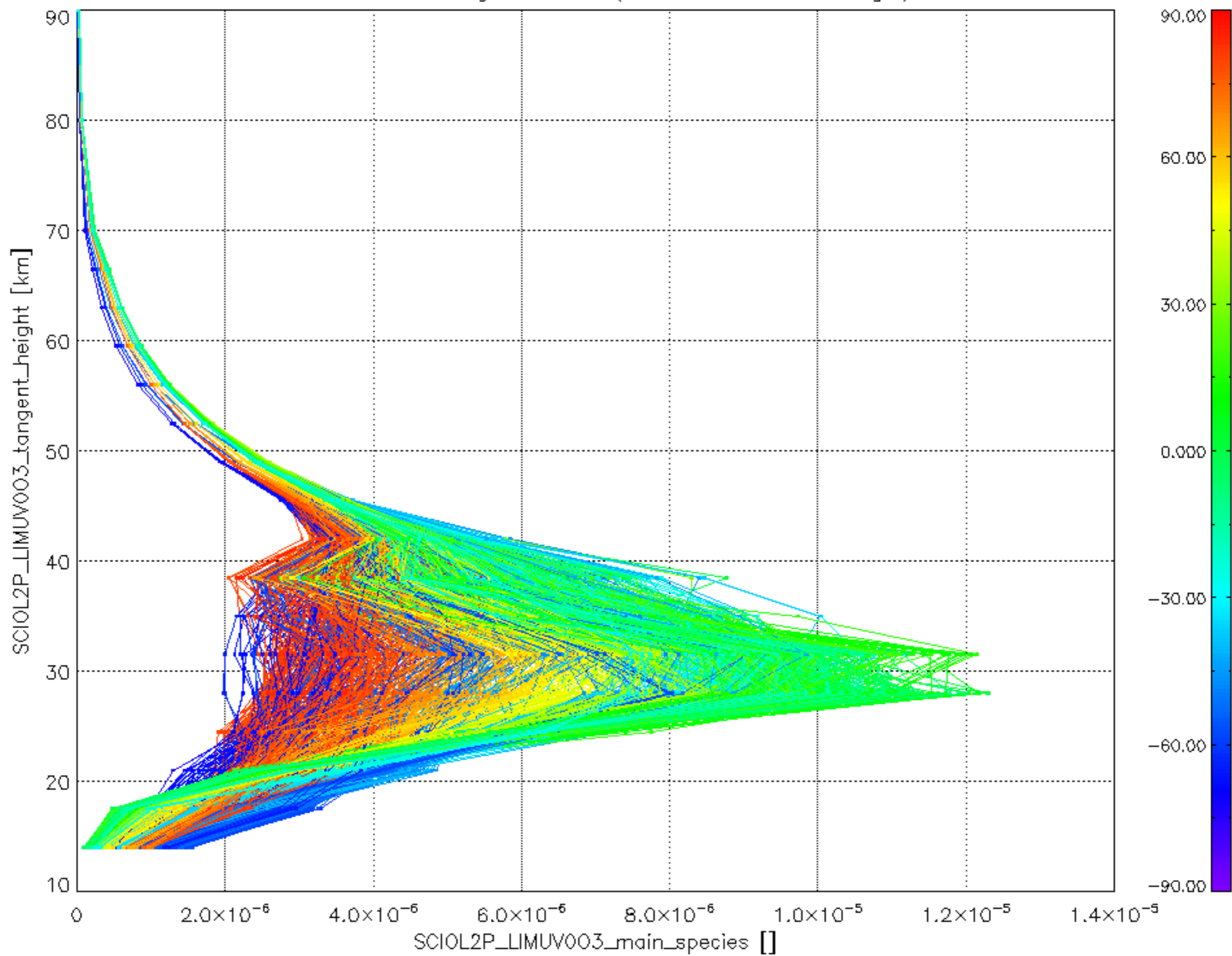
SCIOL2P_NADUV1NO2_amf_gr for 25AUG2009 00:00:00 to 26AUG2009 00:00:00



SCIOL2P_NADUV1NO2_amf_cl for 25AUG2009 00:00:00 to 26AUG2009 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).

