

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 13:47:58
Data source version	SCIA-OL/3.01-R
Processing scope for products	05AUG2009 00:00:00 to 06AUG2009 00:00:00
Start time of first product within scope	04AUG2009 22:41:46
Stop time of last product within scope	06AUG2009 00:46:07
Total number of level 2 products	14
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__2PRDPA20090804_224146_000033252081_00216_38847_3678.N1	04AUG2009 22:41:46	04AUG2009 23:37:11	0	GOOD
1	SCI_OL__2PRDPA20090805_002222_000033122081_00217_38848_3679.N1	05AUG2009 00:22:22	05AUG2009 01:17:35	0	GOOD
2	SCI_OL__2PRDPA20090805_020258_000033252081_00218_38849_3680.N1	05AUG2009 02:02:58	05AUG2009 02:58:23	0	GOOD
3	SCI_OL__2PRDPA20090805_034334_000033122081_00219_38850_3681.N1	05AUG2009 03:43:34	05AUG2009 04:38:47	0	GOOD
4	SCI_OL__2PRDPA20090805_052411_000033252081_00220_38851_3682.N1	05AUG2009 05:24:11	05AUG2009 06:19:36	0	GOOD
5	SCI_OL__2PRDPA20090805_070447_000033122081_00221_38852_3683.N1	05AUG2009 07:04:47	05AUG2009 08:00:00	0	GOOD
6	SCI_OL__2PRDPA20090805_084523_000033252081_00222_38853_3687.N1	05AUG2009 08:45:23	05AUG2009 09:40:49	0	GOOD
7	SCI_OL__2PRDPA20090805_102559_000033122081_00223_38854_3688.N1	05AUG2009 10:25:59	05AUG2009 11:21:12	0	GOOD
8	SCI_OL__2PRDPA20090805_120635_000033252081_00224_38855_3691.N1	05AUG2009 12:06:35	05AUG2009 13:02:01	0	GOOD
9	SCI_OL__2PRDPA20090805_134712_000033122081_00225_38856_3692.N1	05AUG2009 13:47:12	05AUG2009 14:42:25	0	GOOD
10	SCI_OL__2PRDPA20090805_152748_000033252081_00226_38857_3689.N1	05AUG2009 15:27:48	05AUG2009 16:23:13	0	GOOD
11	SCI_OL__2PRDPA20090805_170843_000033422081_00227_38858_3690.N1	05AUG2009 17:08:43	05AUG2009 18:04:25	0	GOOD
12	SCI_OL__2PRDPA20090805_221433_000030812081_00230_38861_3693.N1	05AUG2009 22:14:33	05AUG2009 23:05:55	0	GOOD
13	SCI_OL__2PRDPA20090805_235554_000030132081_00231_38862_3694.N1	05AUG2009 23:55:54	06AUG2009 00:46:07	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: 121839

Total number of cloud data DSRs with good quality flag (=0): 121839 (100.0 %)

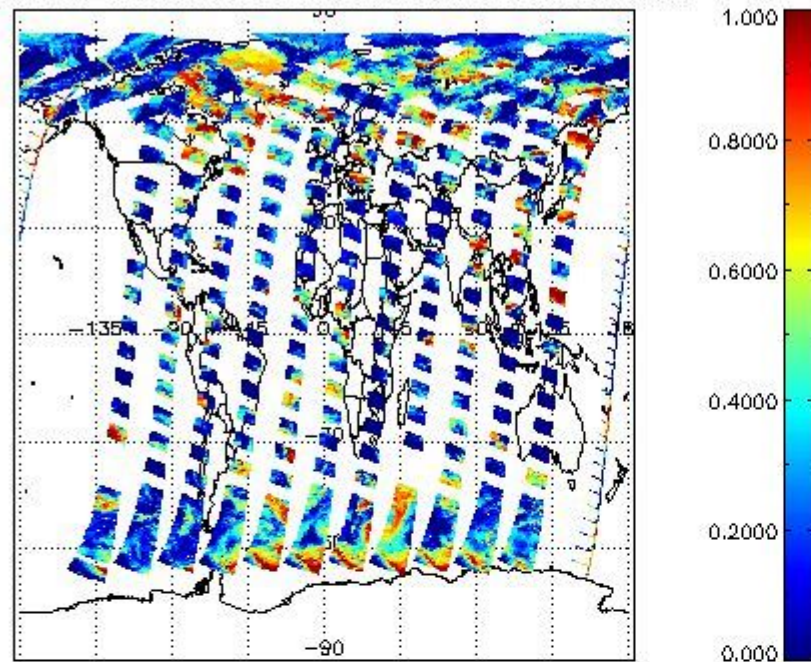
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	121839	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	121839	0.18118	0.12500	0.12500	0.25000	0.062180	s
CL_FRAC	121839	0.30472	0.23273	0.0000	1.0000	0.28912	-
CL_FRAC_ERR	121839	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	121839	5.7977	4.0000	4.0000	8.0000	1.9898	
PMD_READ_CL[0]	121839	0.22039	0.0000	0.0000	8.0000	1.1523	-
PMD_READ_CL[1]	121839	1.7719	0.0000	0.0000	8.0000	2.7364	-
CL_TOP_HEIGHT	108186	3.4149	1.6790	0.0000	17.000	3.8061	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	108186	57.249	68.005	0.0000	101.00	44.667	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	121839	11100000	11100000	11100000	11100000	0.0000	flags
CLOUD_FLAGS	121839	11001100	11000100	11000000	11100000	3513.0	flags
AERO_ABSO_IND	121839	3.9074	4.8612	-0.80897	16.336	2.9525	
AERO_IND_DIAG	121839	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	121839	01010011	00000000	00000000	11000000	24350.	flags

Time and geolocation plots:

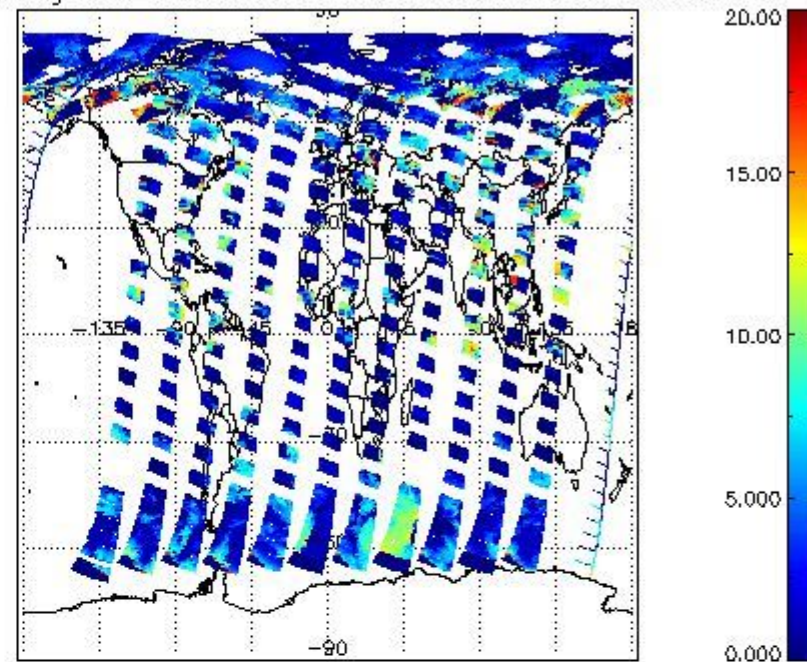
Plots are available for the following parameters:

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

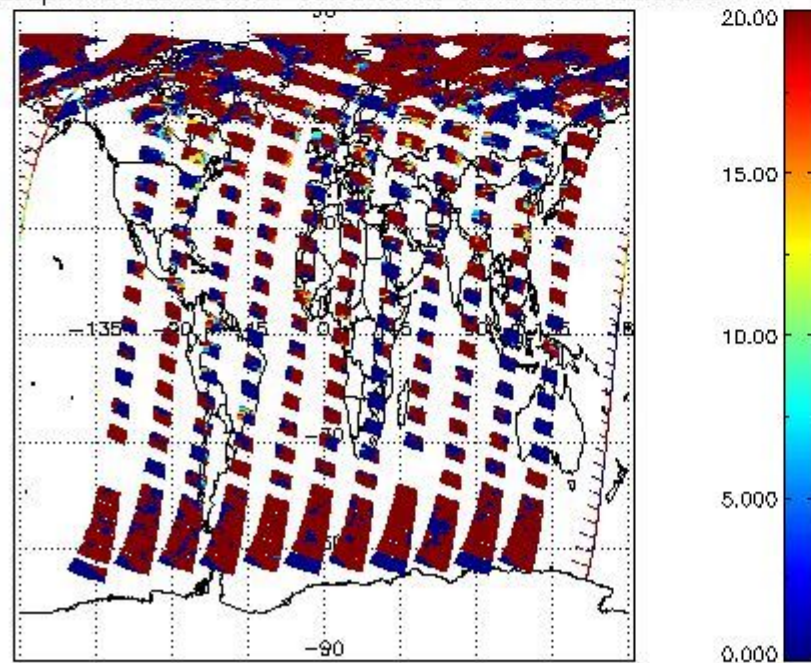
cL_frac for 05AUG2009 00:00:00 to 06AUG2009 00:00:00



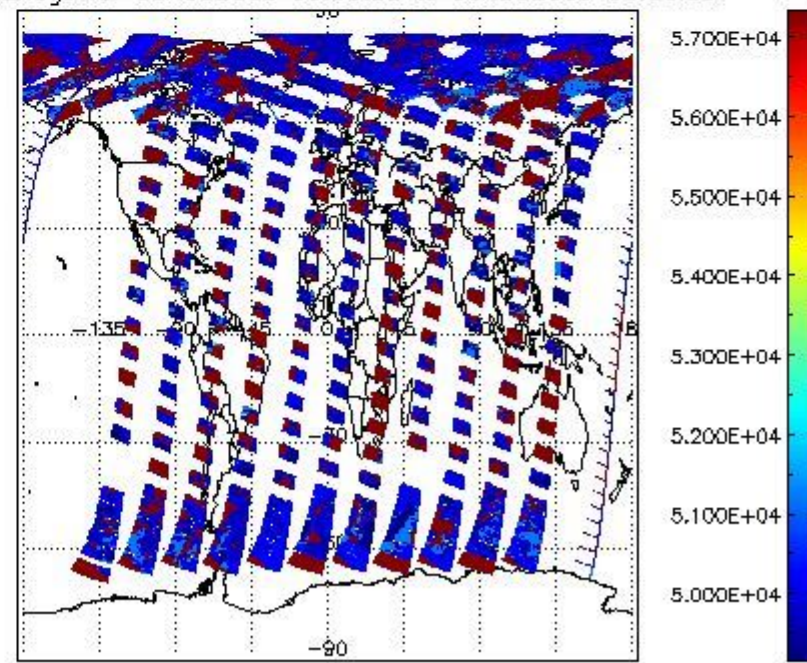
cL_top_height for 05AUG2009 00:00:00 to 06AUG2009 00:00:00



cL_opt_depth for 05AUG2009 00:00:00 to 06AUG2009 00:00:00



cloud_flags for 05AUG2009 00:00:00 to 06AUG2009 00:00:00



2.2.2 Nadir

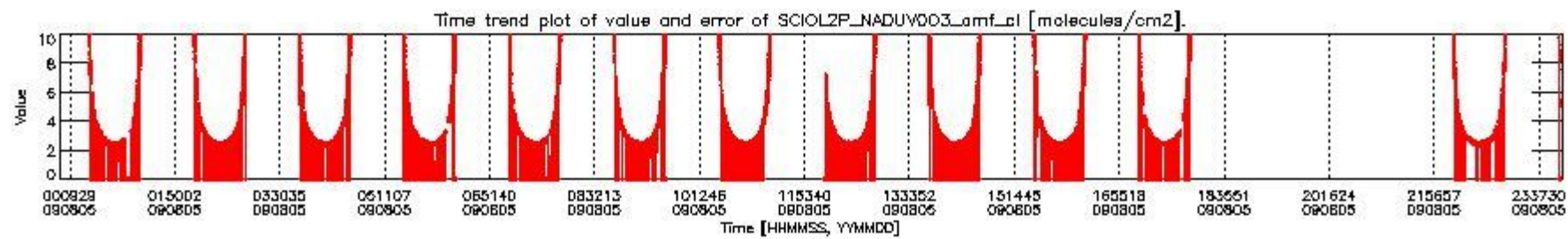
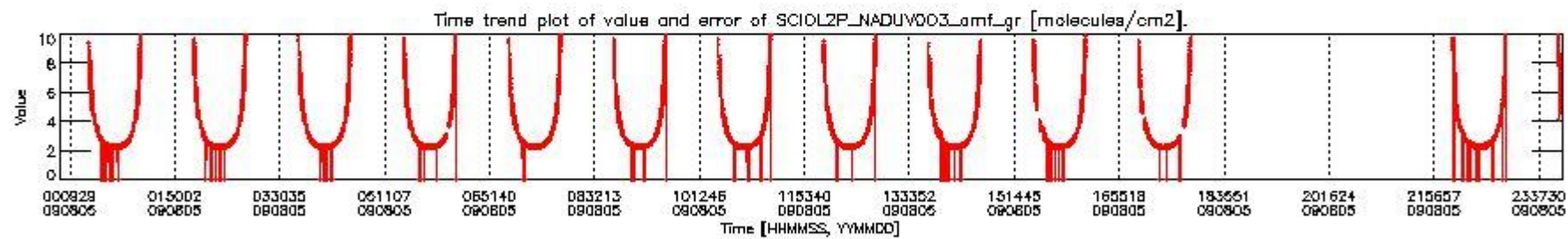
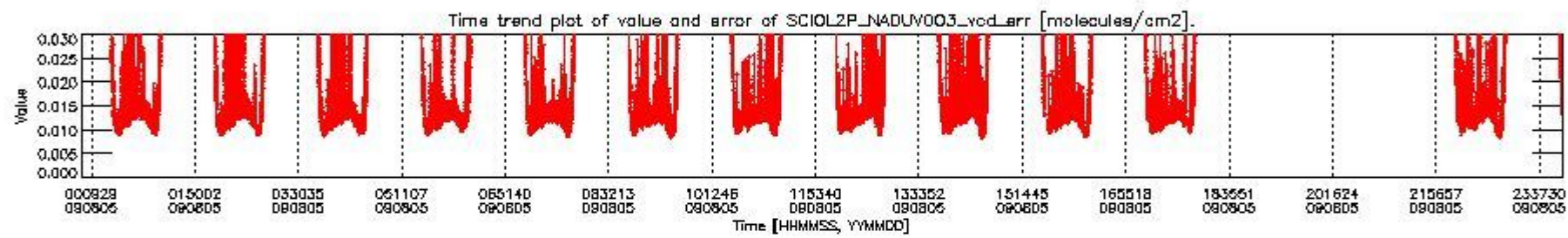
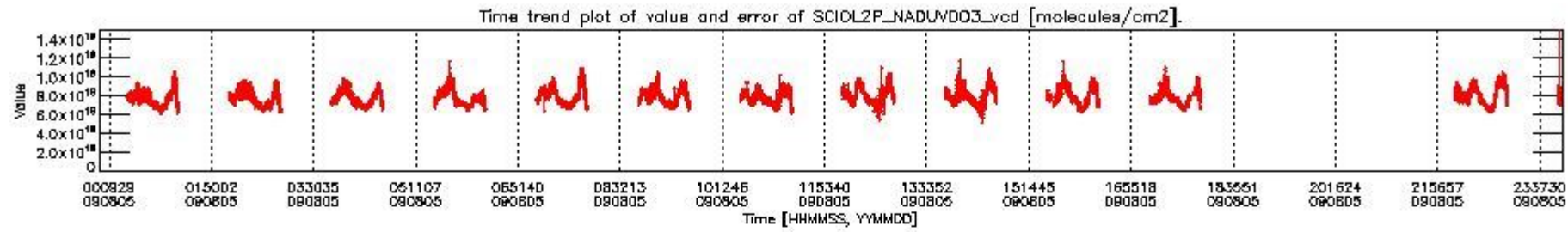
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

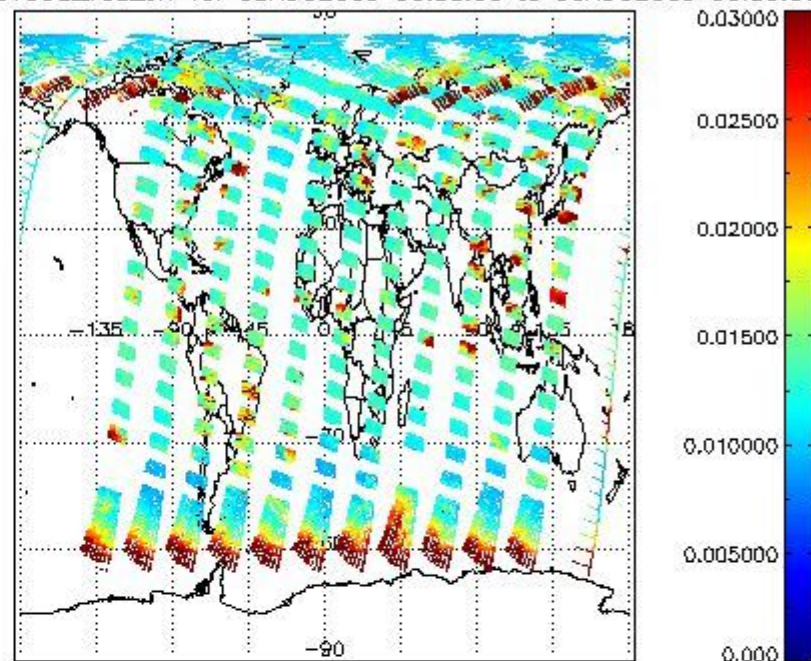
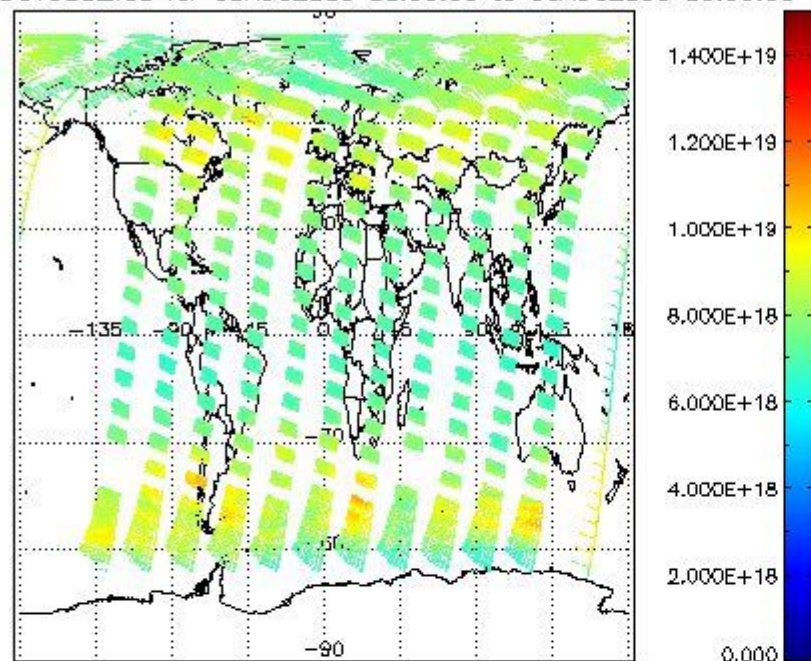
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

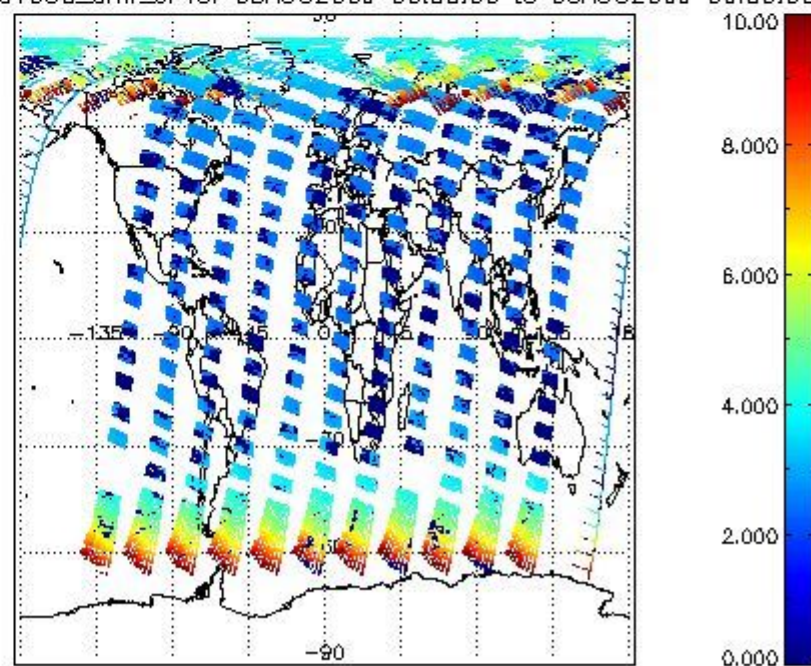
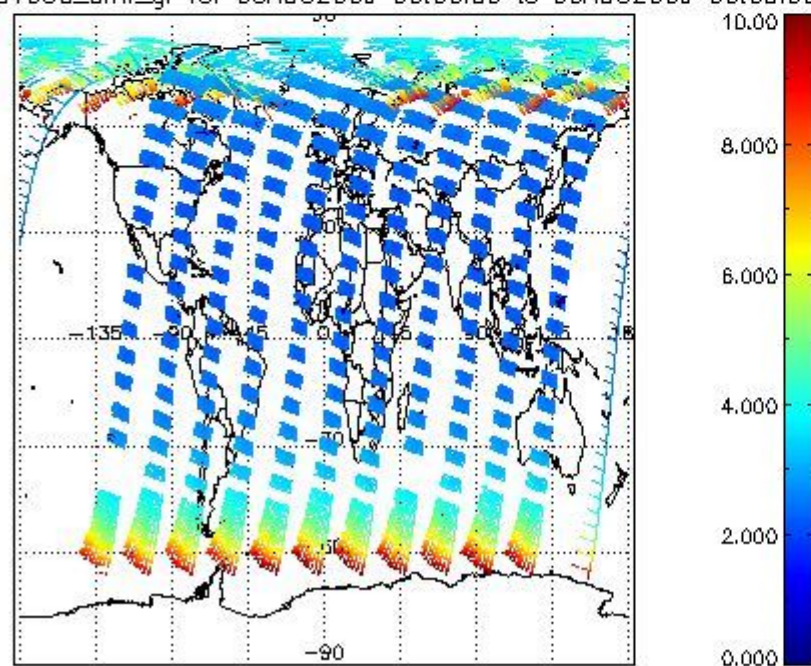
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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

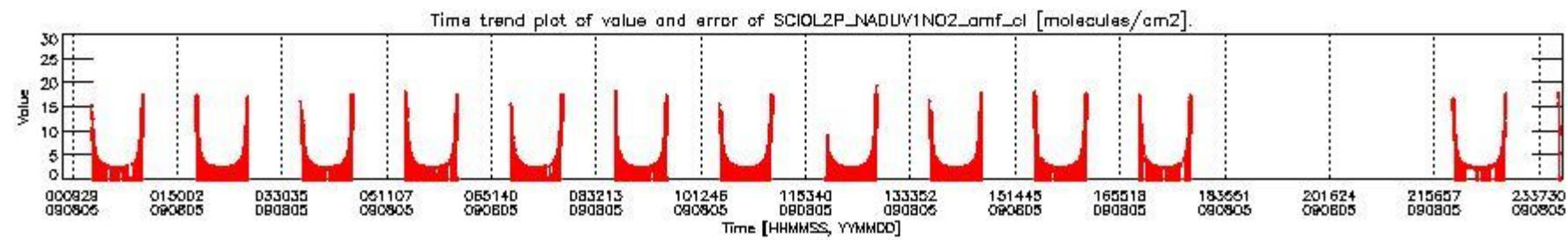
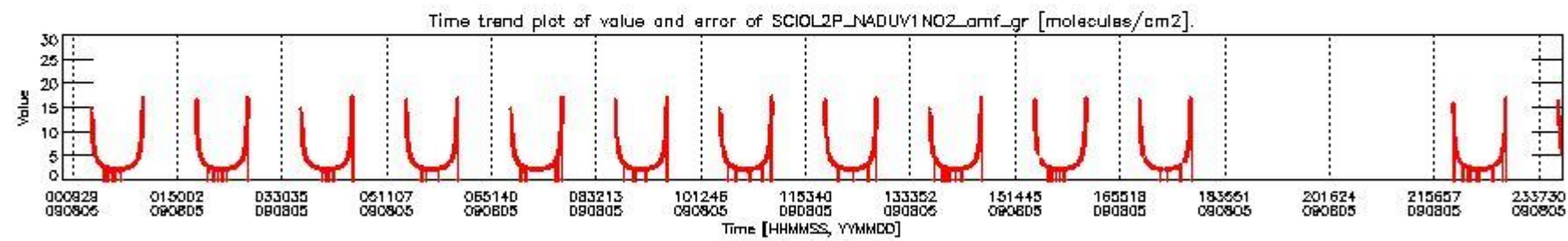
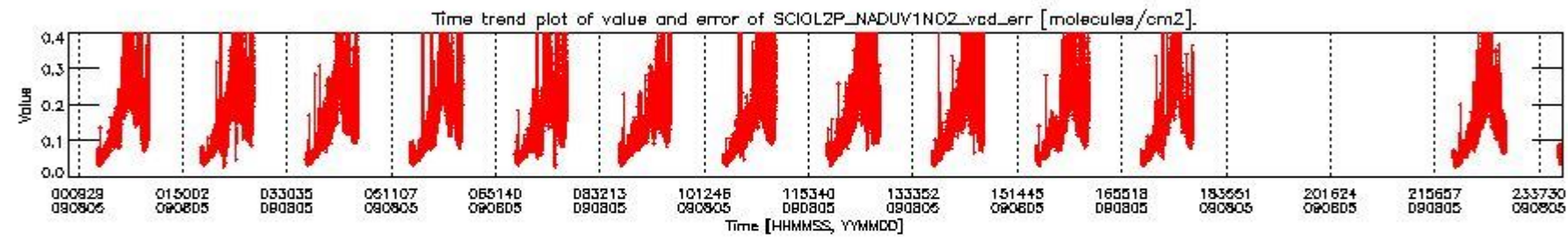
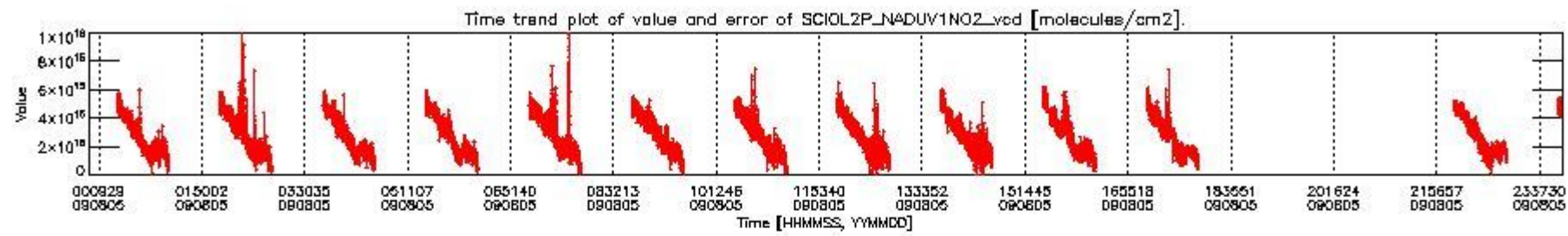


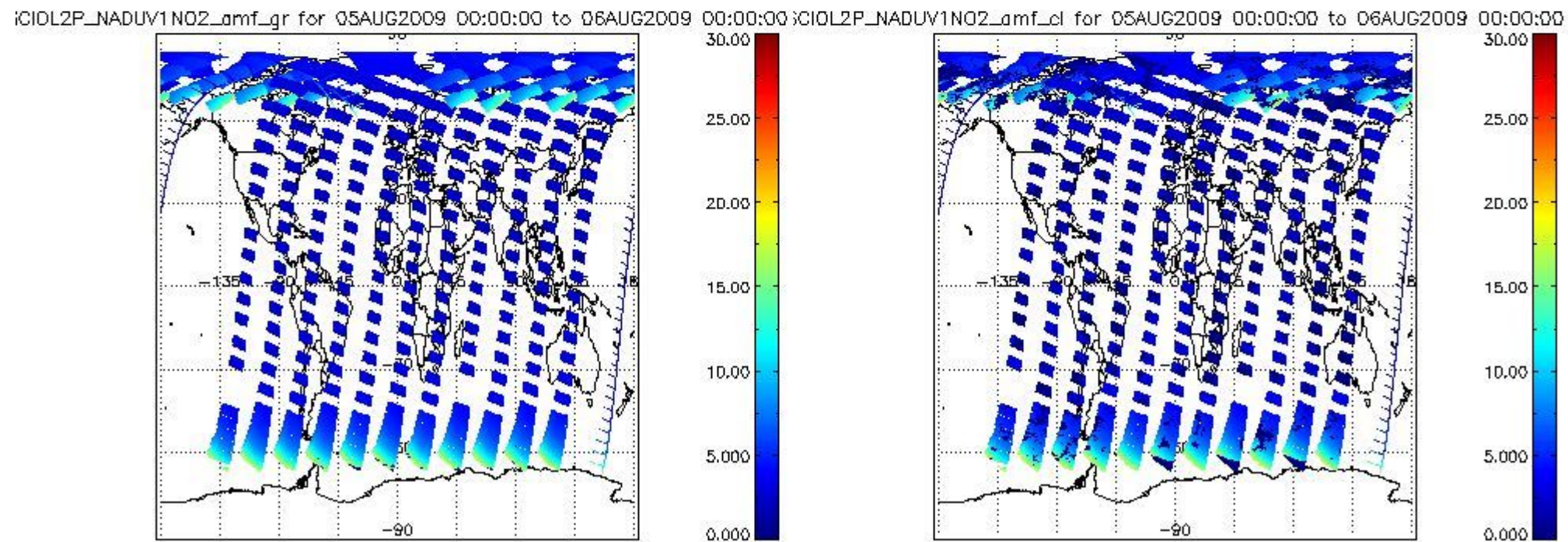
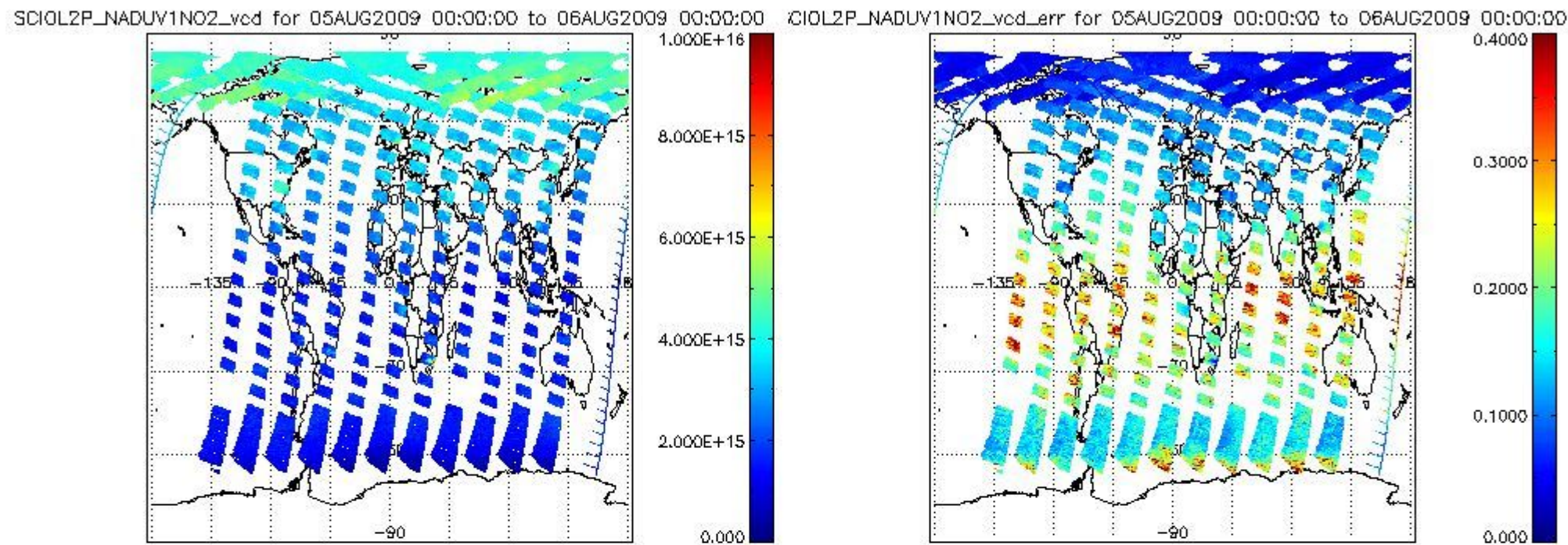
SCIOL2P_NADUV003_vcd for 05AUG2009 00:00:00 to 06AUG2009 00:00:00 SCIOL2P_NADUV003_vcd_err for 05AUG2009 00:00:00 to 06AUG2009 00:00:00



SCIOL2P_NADUV003_amf_gr for 05AUG2009 00:00:00 to 06AUG2009 00:00:00 SCIOL2P_NADUV003_amf_cl for 05AUG2009 00:00:00 to 06AUG2009 00:00:00







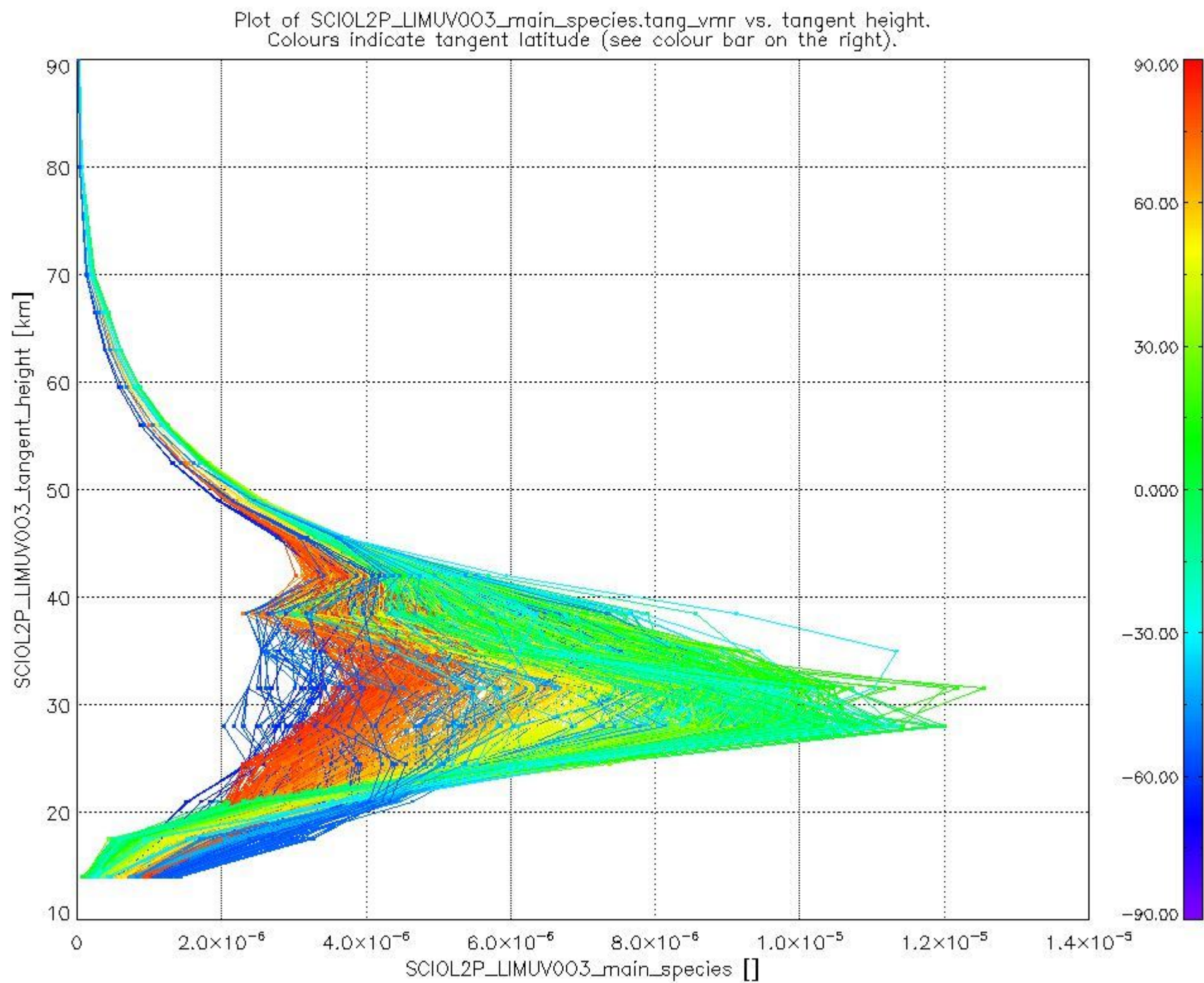
2.2.3 Limb

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

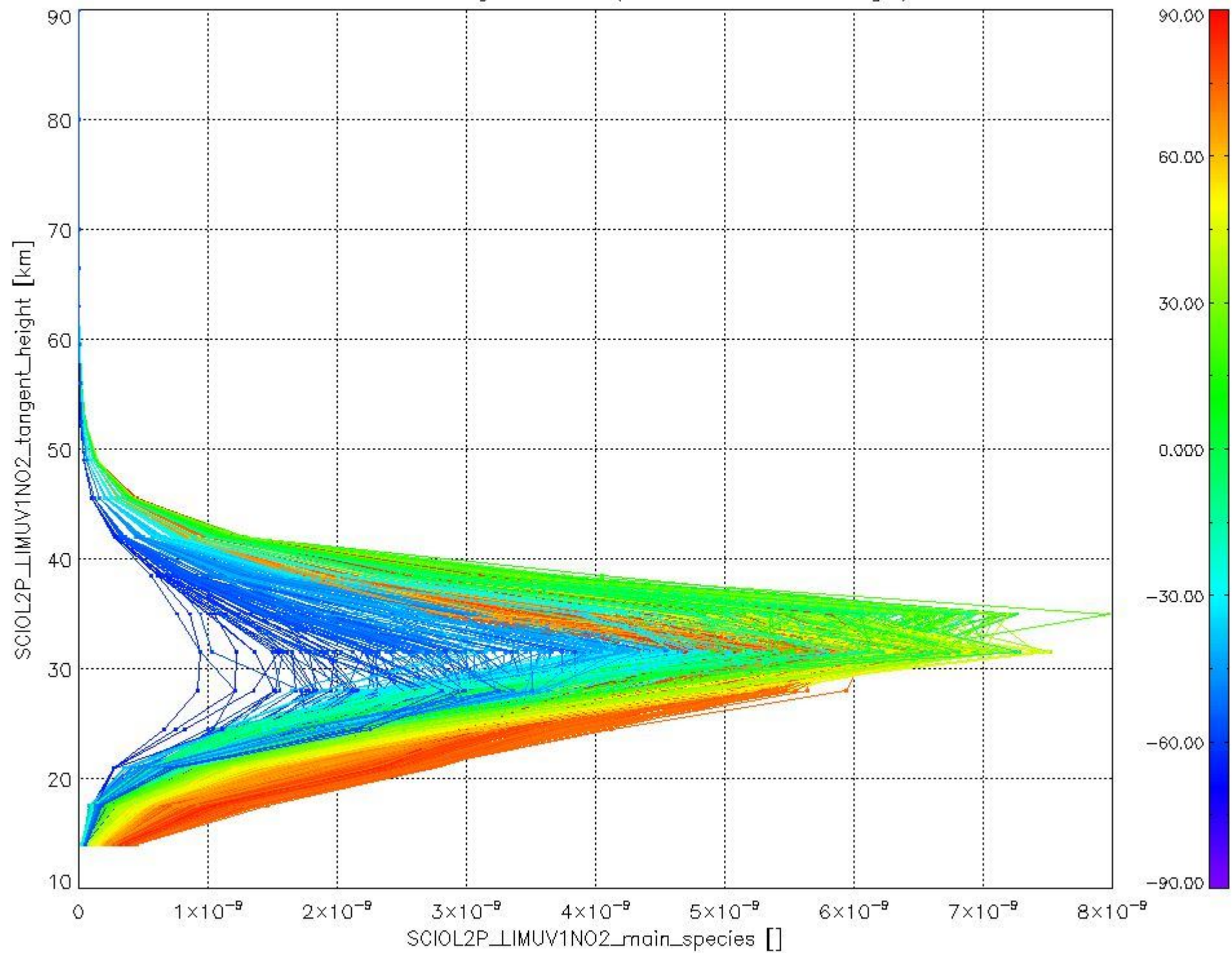
The following data items are currently included into this section:

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.



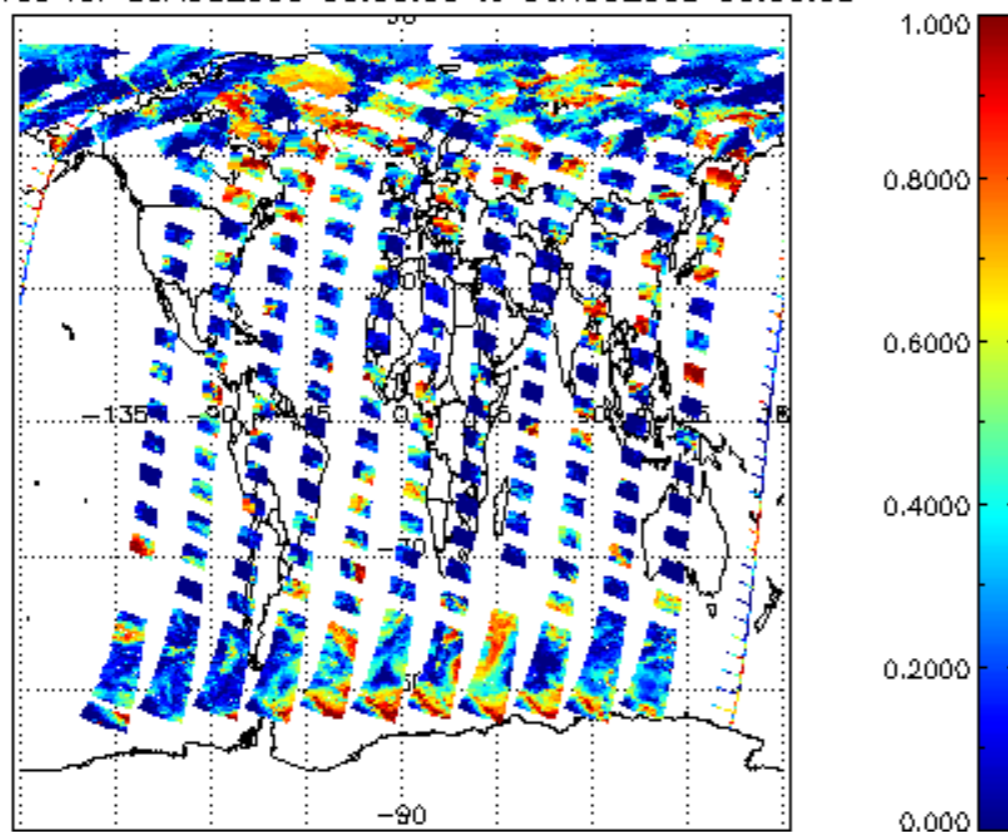
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



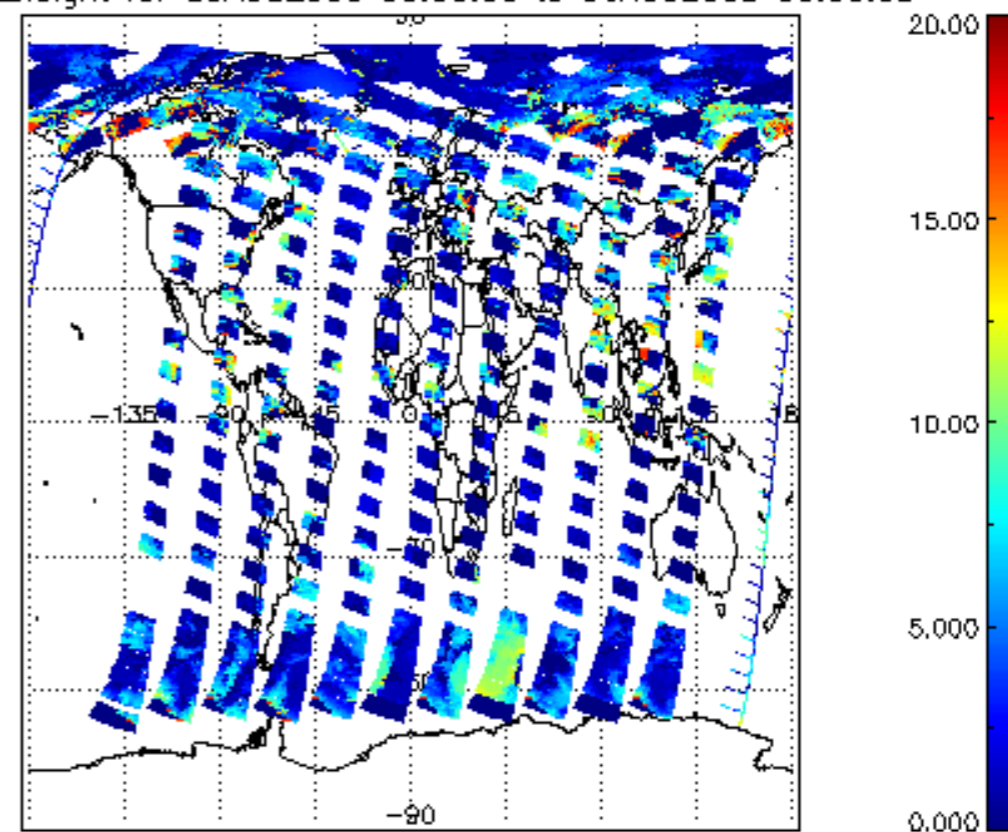
2.3 ADF monitoring

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

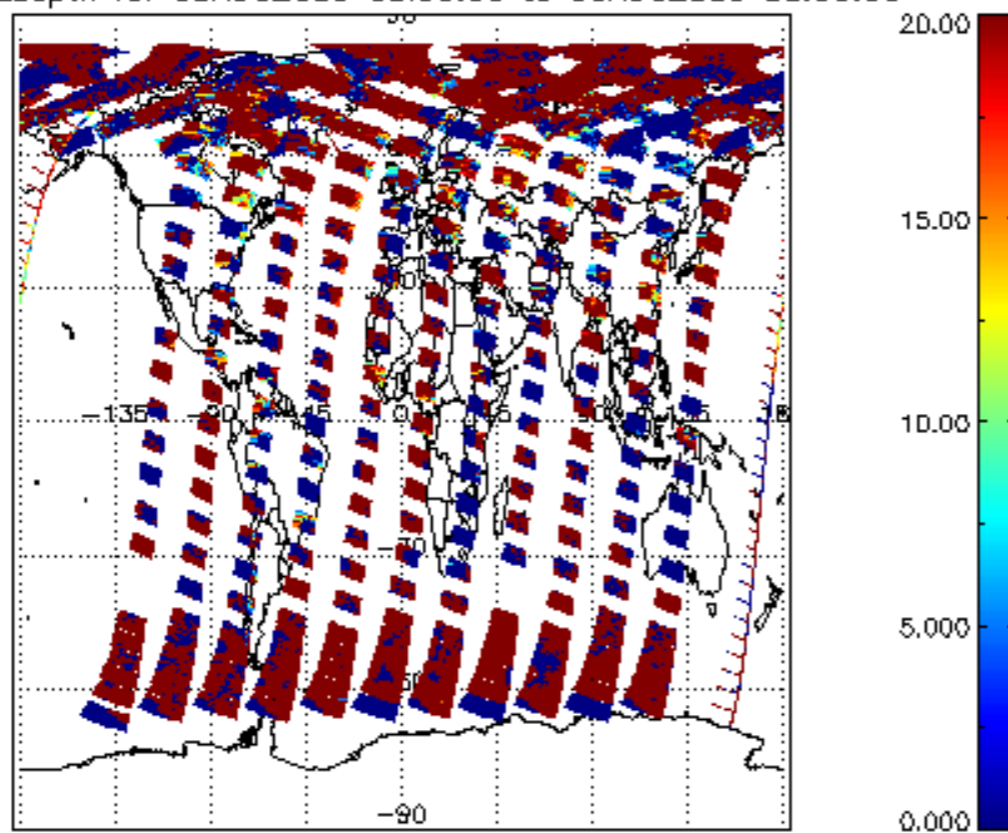
cL_frac for 05AUG2009 00:00:00 to 06AUG2009 00:00:00



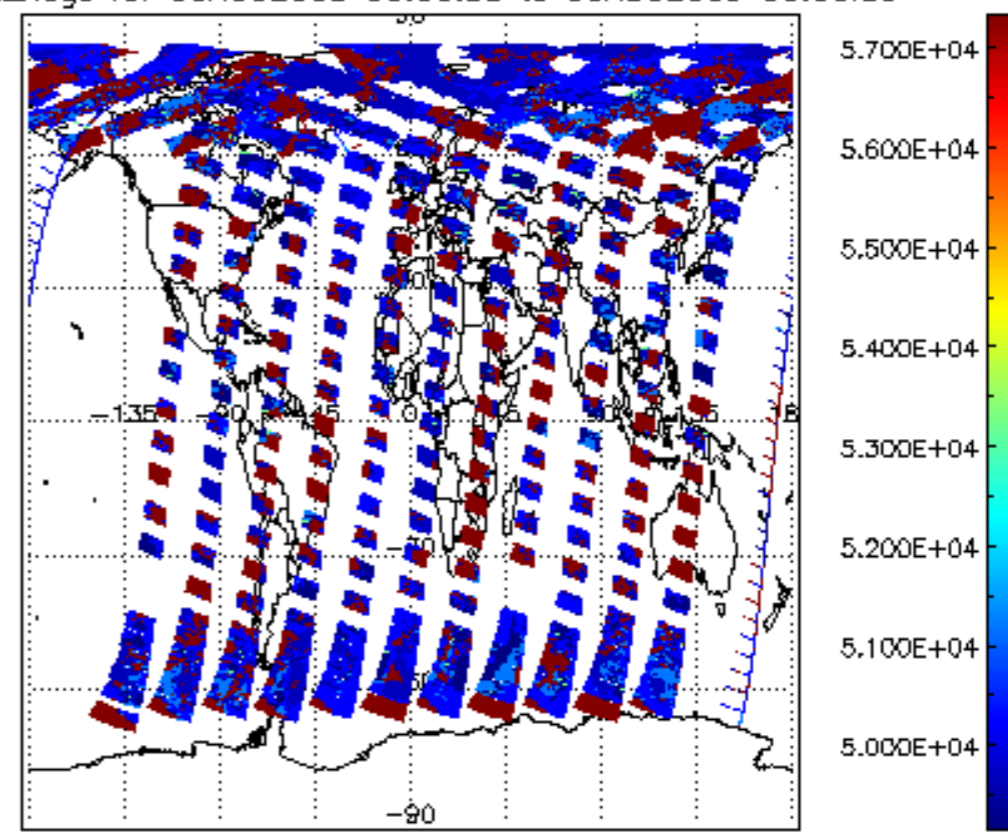
cL_top_height for 05AUG2009 00:00:00 to 06AUG2009 00:00:00

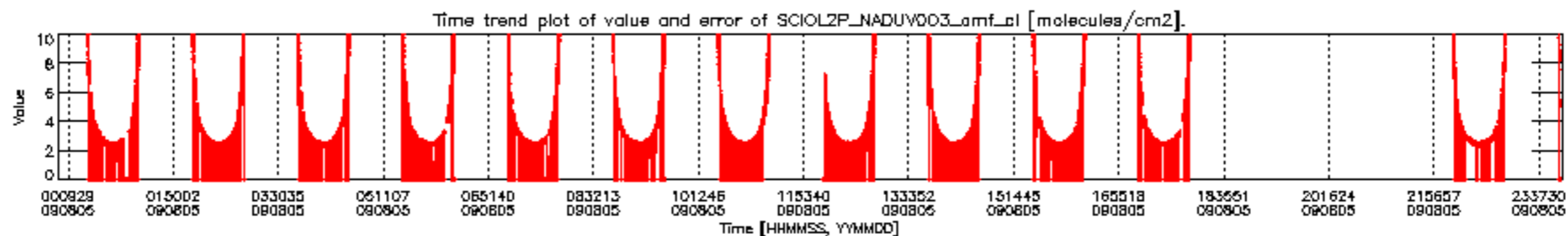
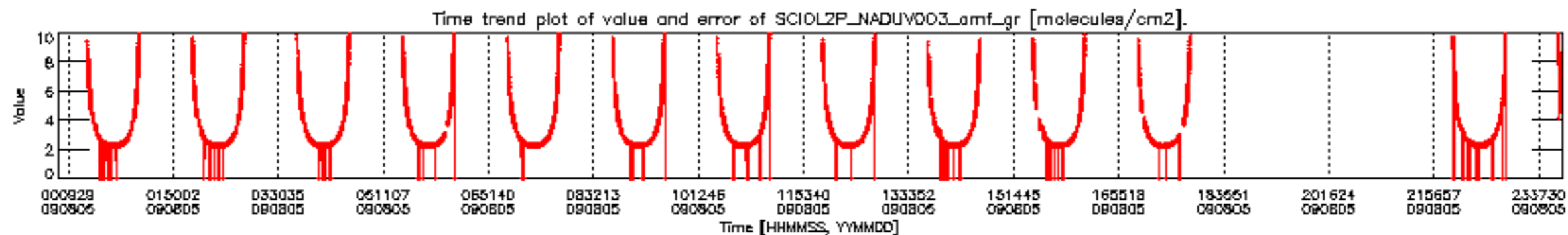
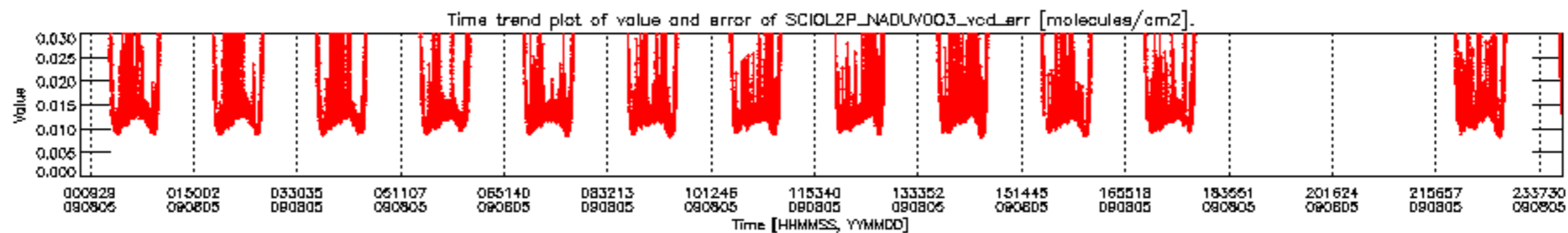
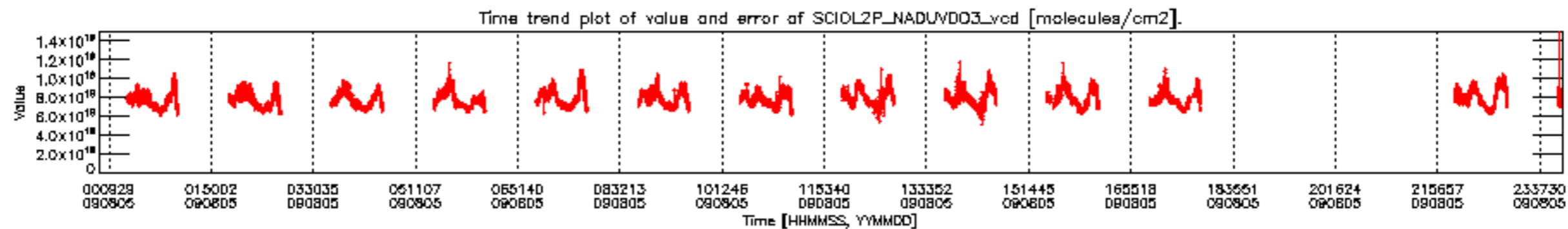


cL_opt_depth for 05AUG2009 00:00:00 to 06AUG2009 00:00:00

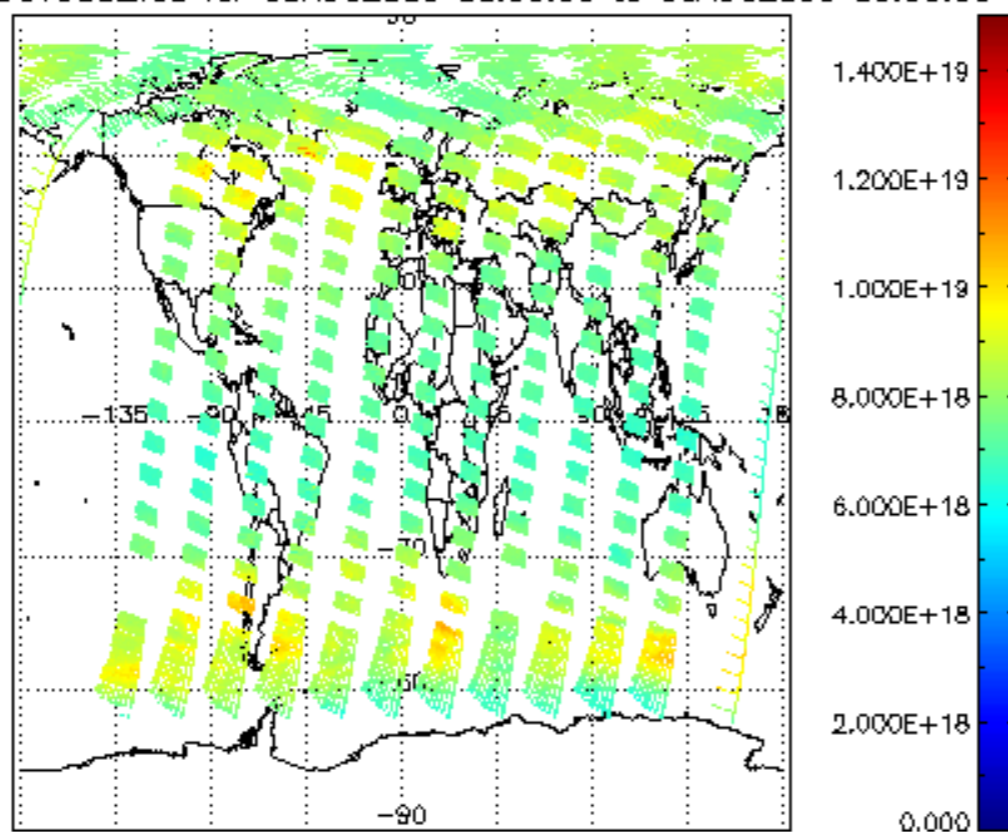


cloud_flags for 05AUG2009 00:00:00 to 06AUG2009 00:00:00

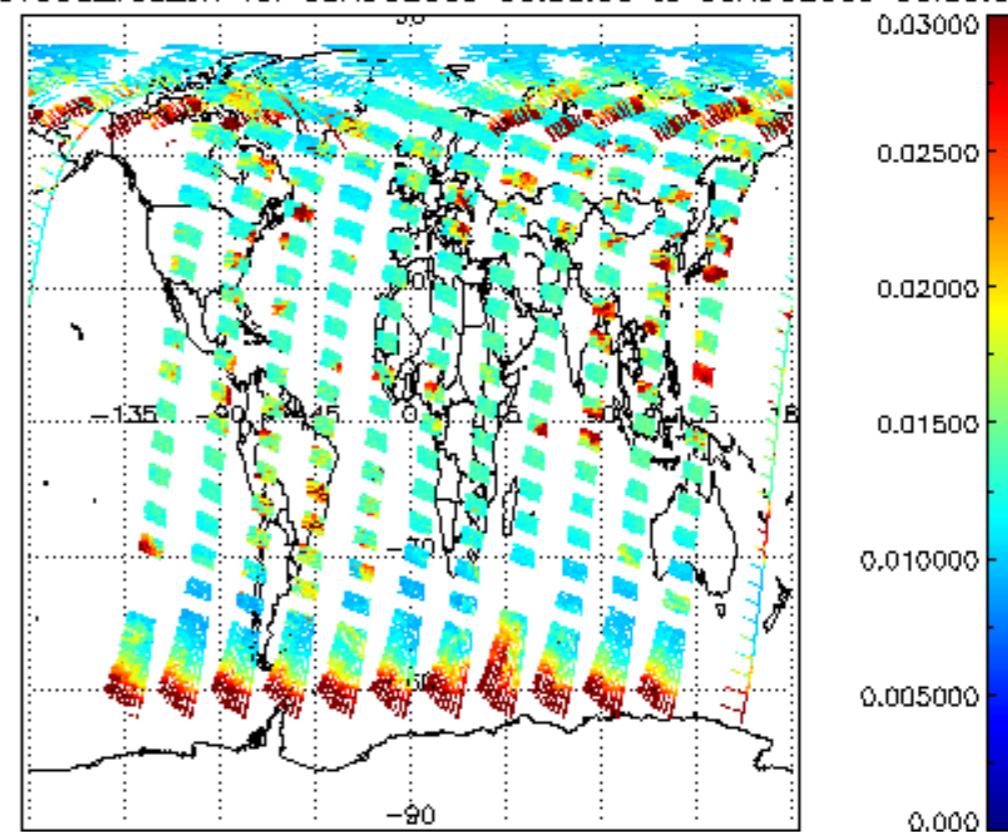




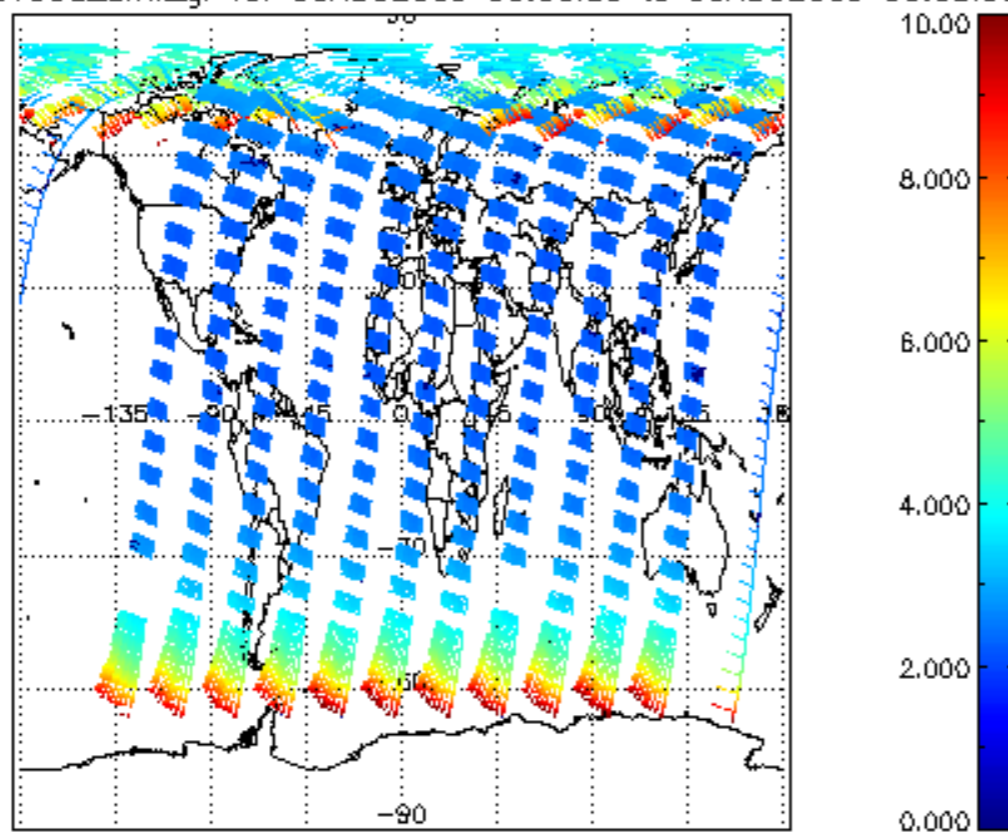
SCIOL2P_NADUV003_vcd for 05AUG2009 00:00:00 to 06AUG2009 00:00:00



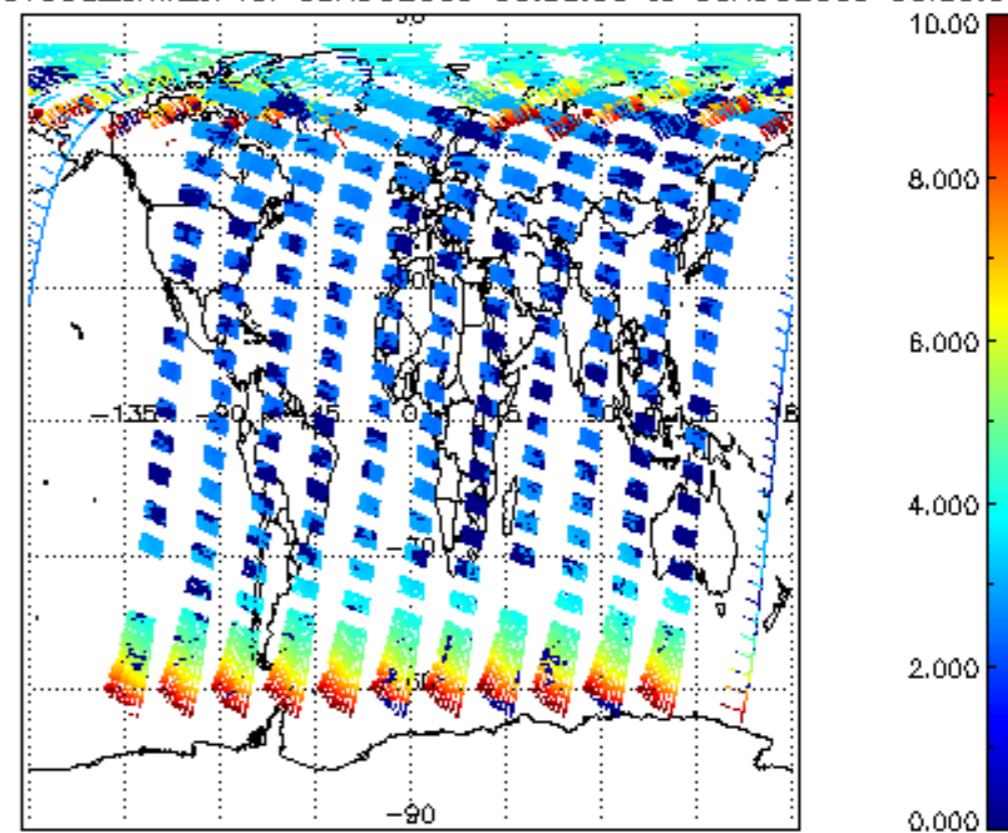
SCIOL2P_NADUV003_vcd_err for 05AUG2009 00:00:00 to 06AUG2009 00:00:00

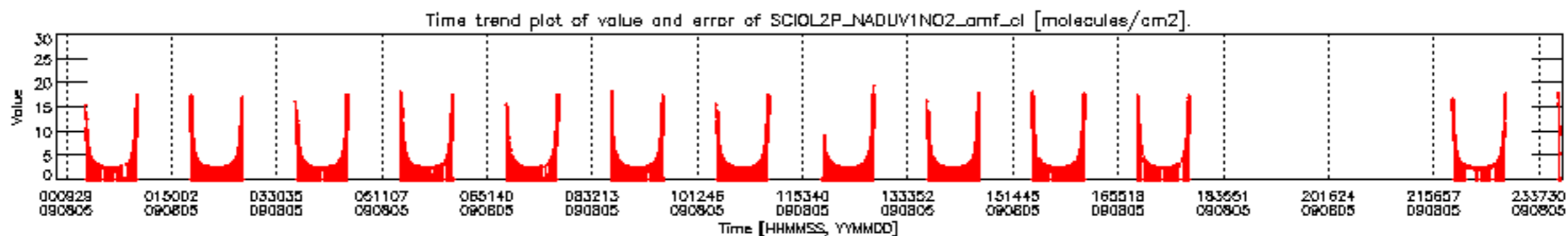
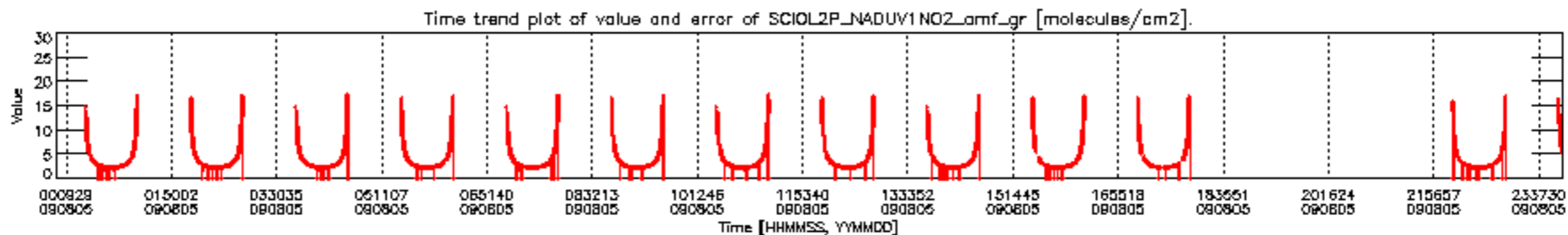
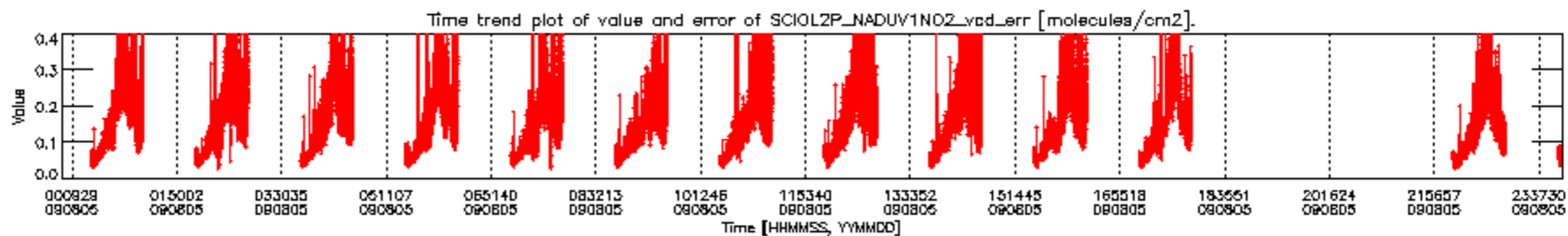
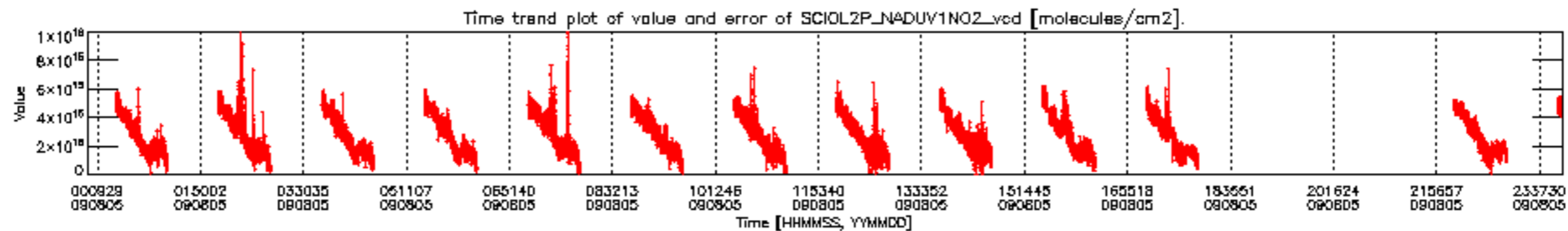


SCIOL2P_NADUV003_amf_gr for 05AUG2009 00:00:00 to 06AUG2009 00:00:00

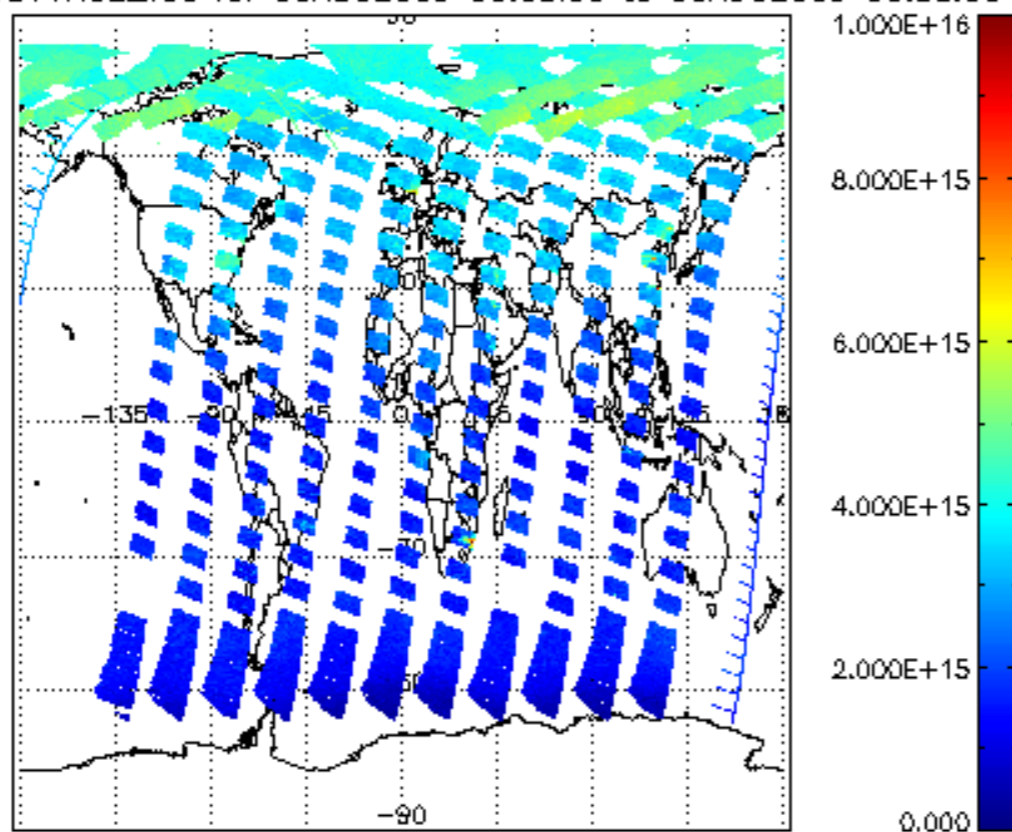


SCIOL2P_NADUV003_amf_cl for 05AUG2009 00:00:00 to 06AUG2009 00:00:00

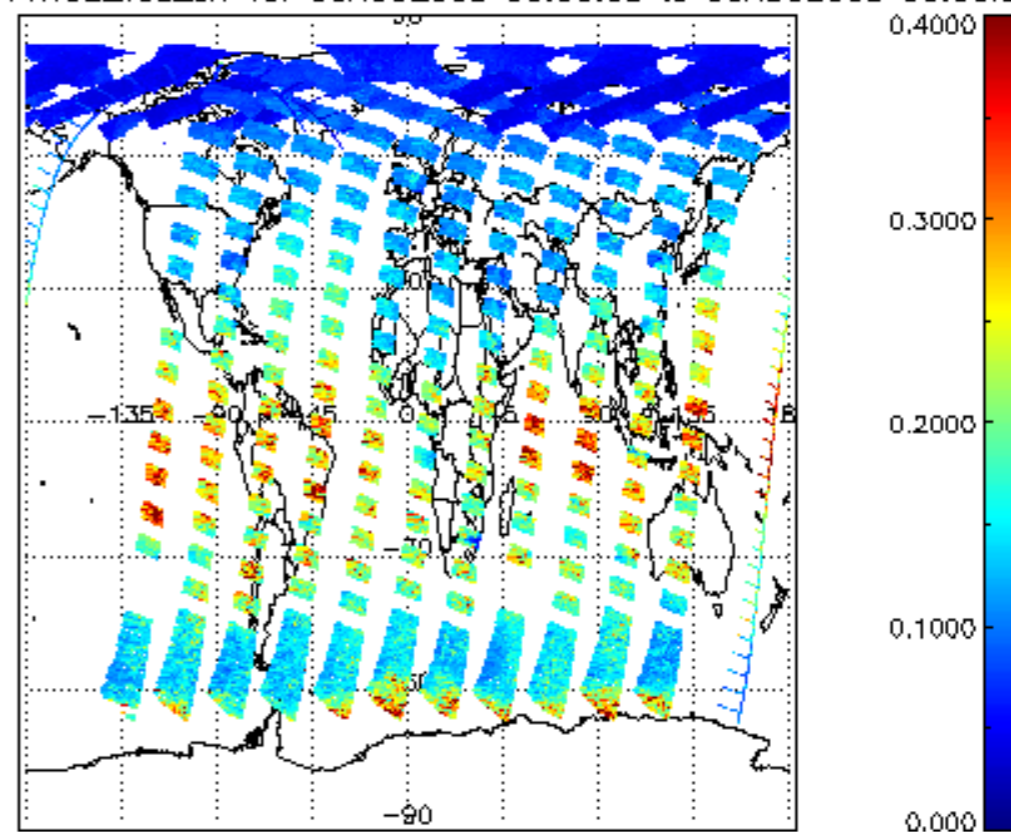




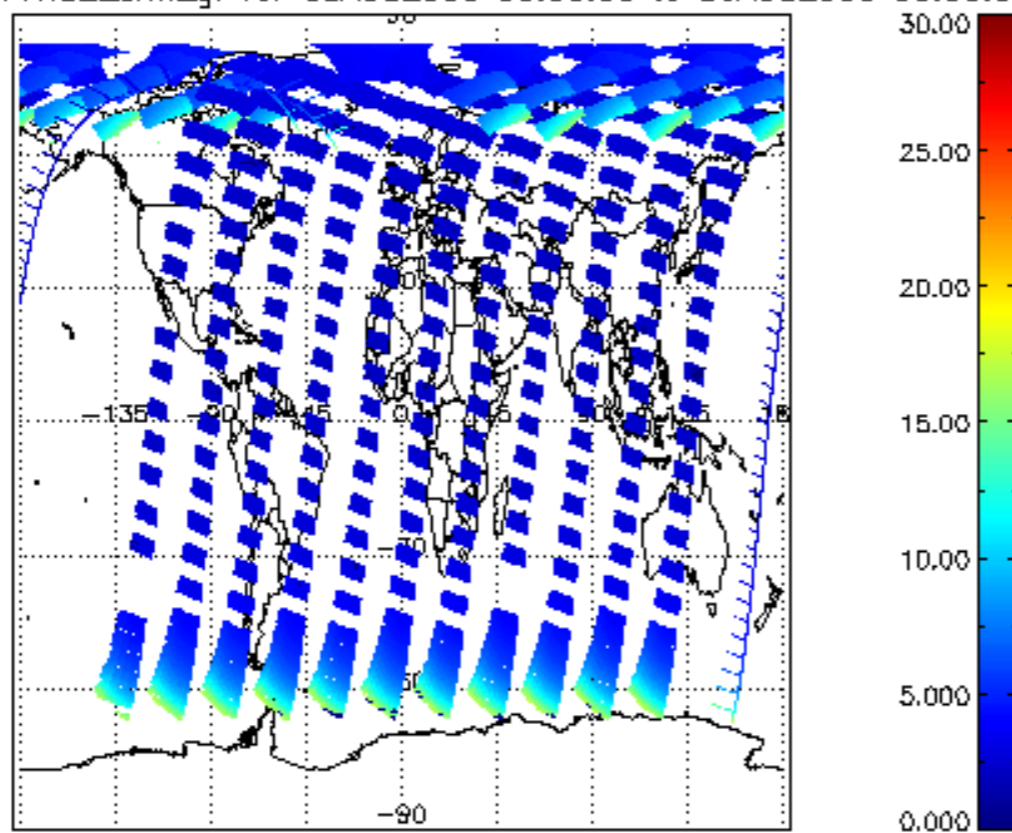
SCIOL2P_NADUV1NO2_vcd for 05AUG2009 00:00:00 to 06AUG2009 00:00:00



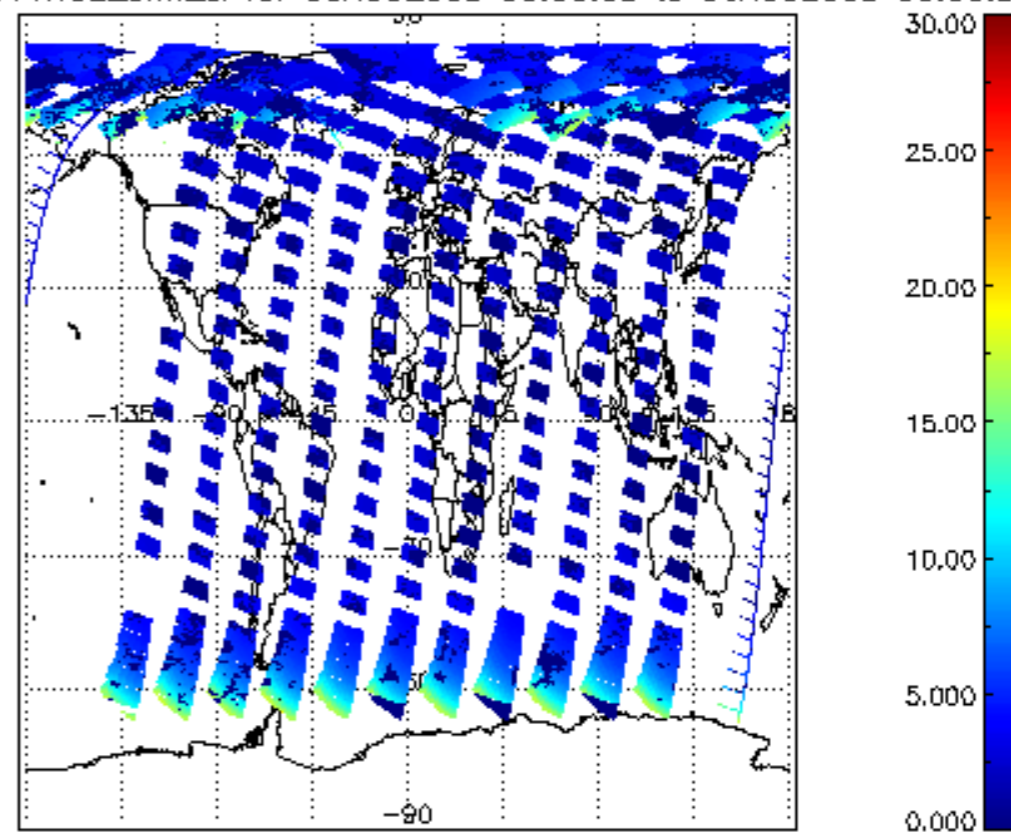
SCIOL2P_NADUV1NO2_vcd_err for 05AUG2009 00:00:00 to 06AUG2009 00:00:00



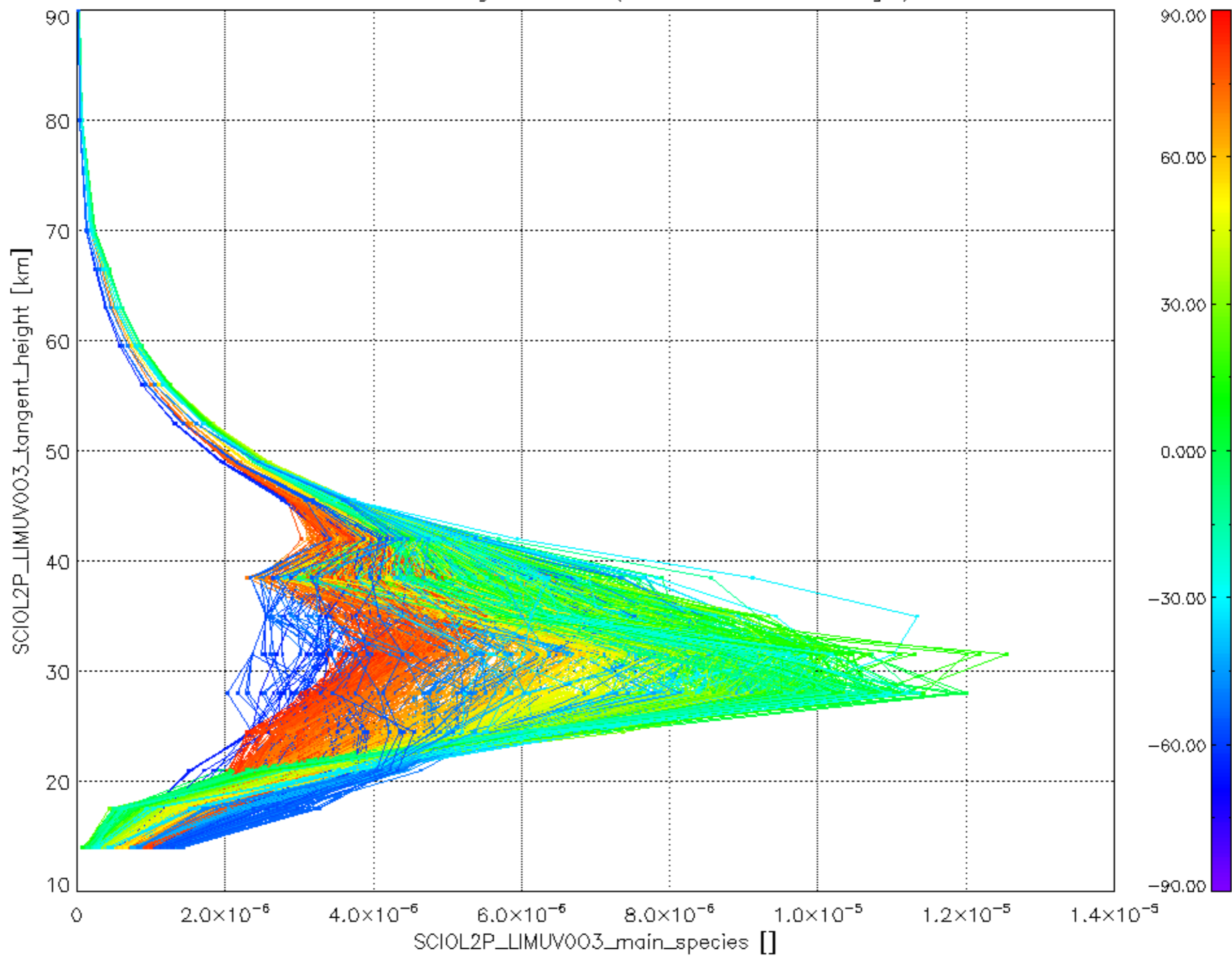
SCIOL2P_NADUV1NO2_amf_gr for 05AUG2009 00:00:00 to 06AUG2009 00:00:00



SCIOL2P_NADUV1NO2_amf_cl for 05AUG2009 00:00:00 to 06AUG2009 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).

