

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 13:49:23
Data source version	SCIA-OL/3.01-R
Processing scope for products	08AUG2009 00:00:00 to 09AUG2009 00:00:00
Start time of first product within scope	07AUG2009 22:51:41
Stop time of last product within scope	09AUG2009 00:52:14
Total number of level 2 products	16
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__2PRDPA20090807_225141_000030762081_00259_38890_3722.N1	07AUG2009 22:51:41	07AUG2009 23:42:58	0	GOOD
1	SCI_OL__2PRDPA20090808_003326_000030202081_00260_38891_3723.N1	08AUG2009 00:33:26	08AUG2009 01:23:46	0	GOOD
2	SCI_OL__2PRDPA20090808_021253_000030762081_00261_38892_3724.N1	08AUG2009 02:12:53	08AUG2009 03:04:10	0	GOOD
3	SCI_OL__2PRDPA20090808_035438_000030202081_00262_38893_3725.N1	08AUG2009 03:54:38	08AUG2009 04:44:59	0	GOOD
4	SCI_OL__2PRDPA20090808_053406_000030762081_00263_38894_3726.N1	08AUG2009 05:34:06	08AUG2009 06:25:23	0	GOOD
5	SCI_OL__2PRDPA20090808_071551_000030202081_00264_38895_3727.N1	08AUG2009 07:15:51	08AUG2009 08:06:12	0	GOOD
6	SCI_OL__2PRDPA20090808_085122_000033122081_00265_38896_3728.N1	08AUG2009 08:51:22	08AUG2009 09:46:35	0	GOOD
7	SCI_OL__2PRDPA20090808_103159_000033252081_00266_38897_3729.N1	08AUG2009 10:31:59	08AUG2009 11:27:24	0	GOOD
8	SCI_OL__2PRDPA20090808_121235_000033122081_00267_38898_3730.N1	08AUG2009 12:12:35	08AUG2009 13:07:48	0	GOOD
9	SCI_OL__2PRDPA20090808_135311_000033252081_00268_38899_3731.N1	08AUG2009 13:53:11	08AUG2009 14:48:37	0	GOOD
10	SCI_OL__2PRDPA20090808_153347_000033122081_00269_38900_3732.N1	08AUG2009 15:33:47	08AUG2009 16:29:00	0	GOOD
11	SCI_OL__2PRDPA20090808_171442_000033252081_00270_38901_3733.N1	08AUG2009 17:14:42	08AUG2009 18:10:08	0	GOOD
12	SCI_OL__2PRDPA20090808_185518_000033122081_00271_38902_3734.N1	08AUG2009 18:55:18	08AUG2009 19:50:31	0	GOOD
13	SCI_OL__2PRDPA20090808_203536_000033252081_00272_38903_3735.N1	08AUG2009 20:35:36	08AUG2009 21:31:02	0	GOOD
14	SCI_OL__2PRDPA20090808_221613_000033122081_00273_38904_3736.N1	08AUG2009 22:16:13	08AUG2009 23:11:25	0	GOOD
15	SCI_OL__2PRDPA20090808_235649_000033252081_00274_38905_3737.N1	08AUG2009 23:56:49	09AUG2009 00:52:14	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: 141180

Total number of cloud data DSRs with good quality flag (=0): 141180 (100.0 %)

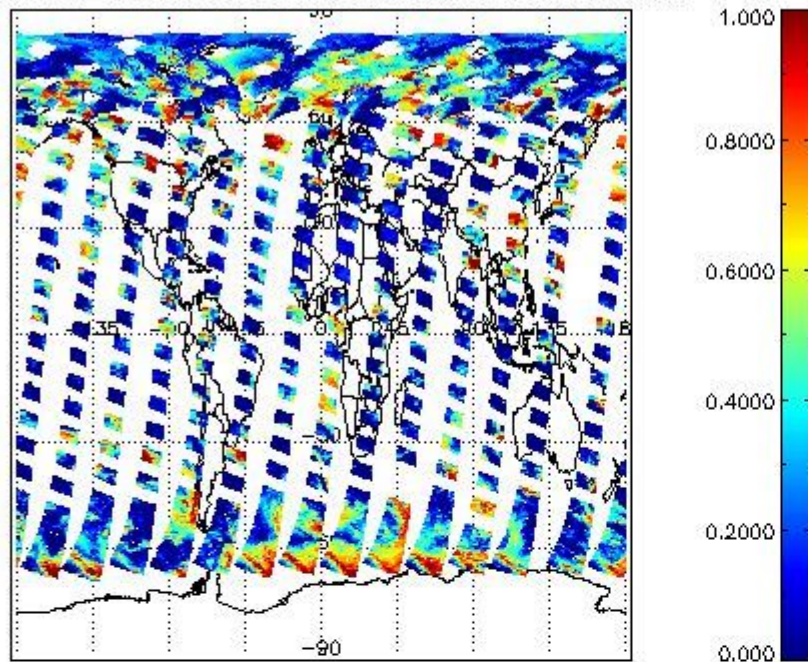
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	141180	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	141180	0.17127	0.12500	0.12500	0.25000	0.060356	s
CL_FRAC	141180	0.29046	0.21858	0.0000	1.0000	0.28194	-
CL_FRAC_ERR	141180	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	141180	5.4807	4.0000	4.0000	8.0000	1.9314	
PMD_READ_CL[0]	141180	0.15027	0.0000	0.0000	8.0000	0.87130	-
PMD_READ_CL[1]	141180	1.8466	0.0000	0.0000	8.0000	2.6585	-
CL_TOP_HEIGHT	122540	3.2086	1.4170	0.0000	17.000	3.7247	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	122540	57.157	69.249	0.0000	101.00	44.937	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	141180	11100000	11100000	11100000	11100000	0.0000	flags
CLOUD_FLAGS	141180	11001101	11000100	11000000	11100000	3603.6	flags
AERO_ABSO_IND	141180	4.2988	5.0865	-0.50578	16.135	2.7811	
AERO_IND_DIAG	141180	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	141180	01011001	00000000	00000000	11000000	24516.	flags

Time and geolocation plots:

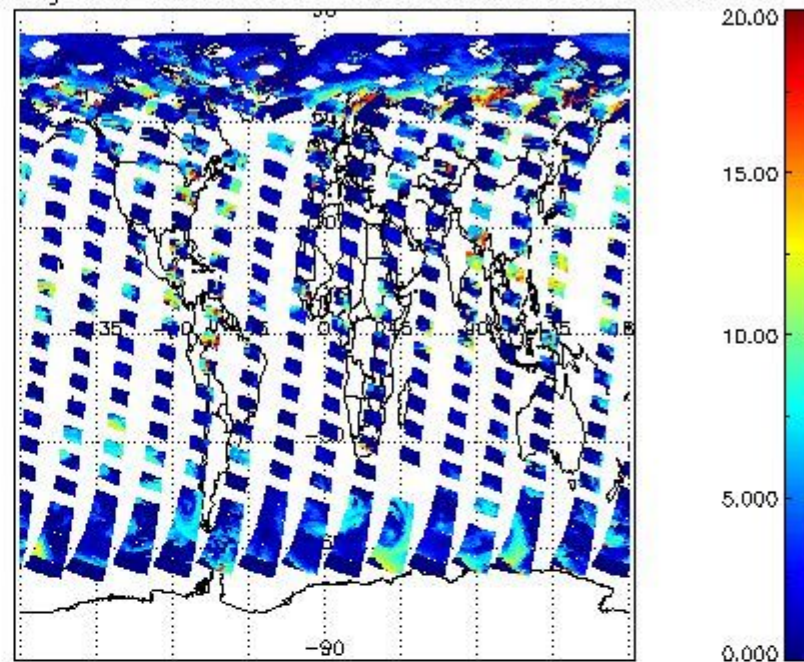
Plots are available for the following parameters:

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

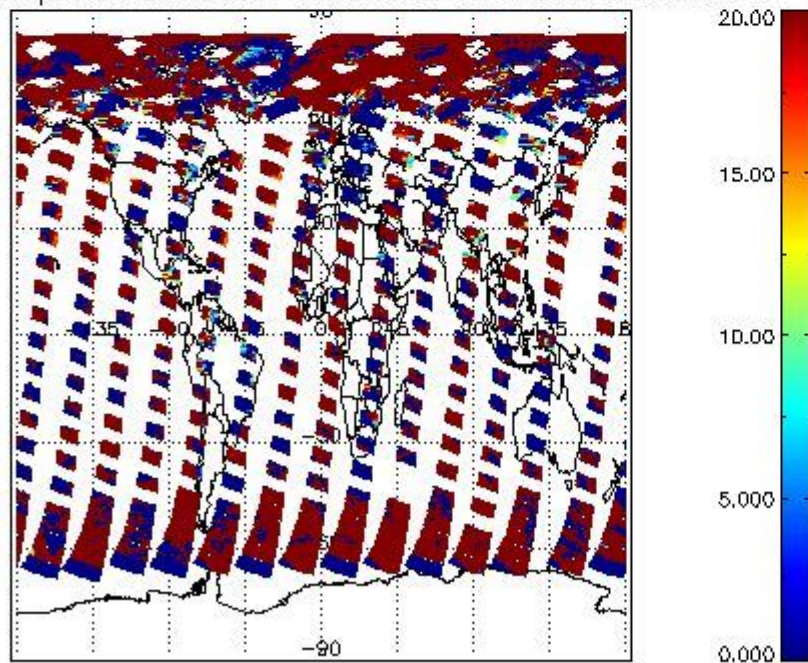
cL_frac for 08AUG2009 00:00:00 to 09AUG2009 00:00:00



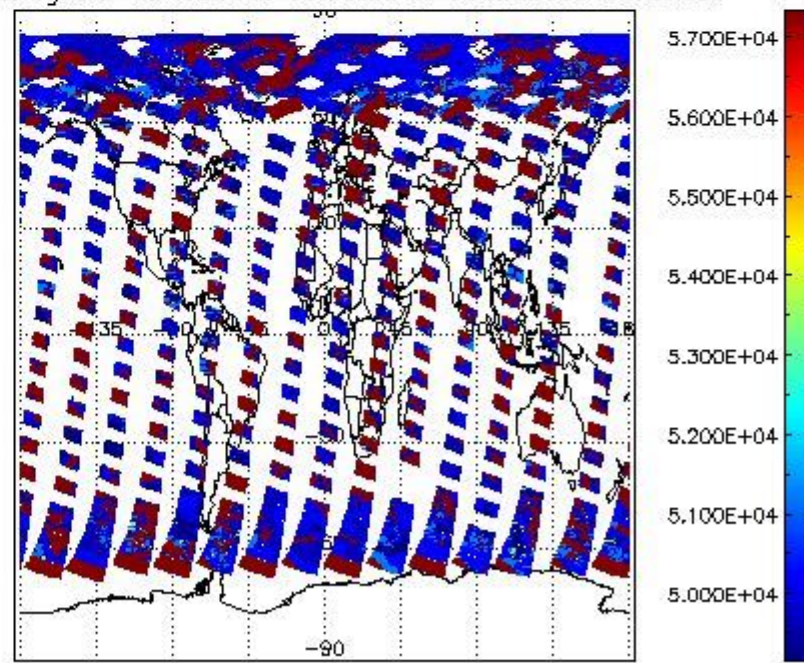
cL_top_height for 08AUG2009 00:00:00 to 09AUG2009 00:00:00



cL_opt_depth for 08AUG2009 00:00:00 to 09AUG2009 00:00:00



cloud_flags for 08AUG2009 00:00:00 to 09AUG2009 00:00:00



2.2.2 Nadir

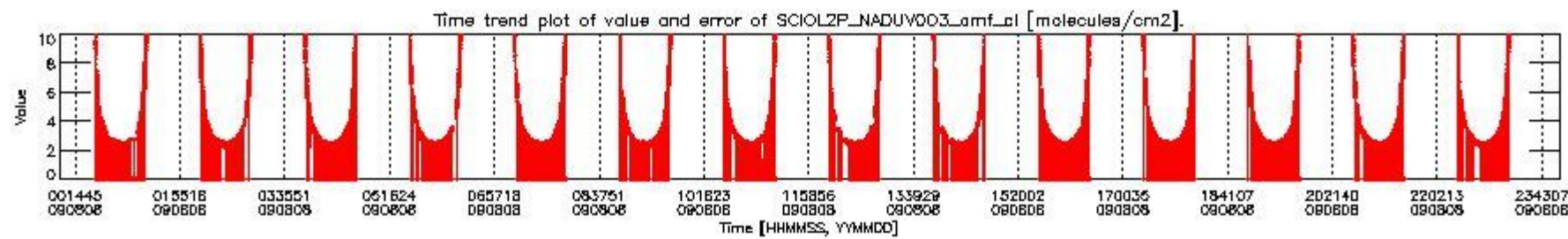
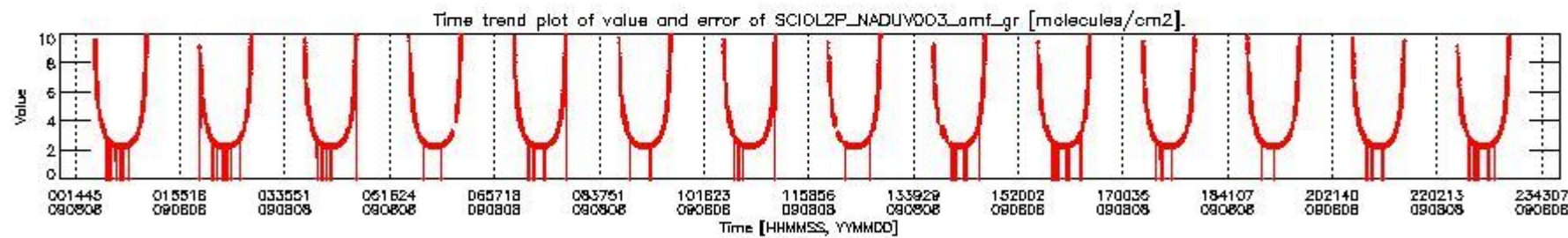
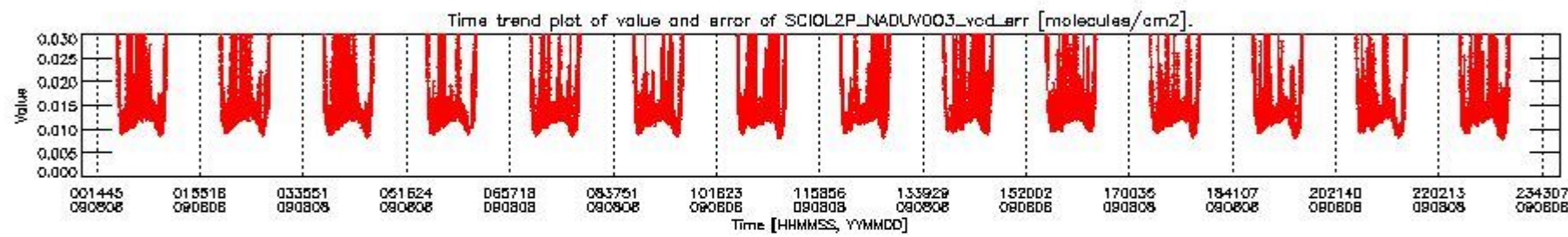
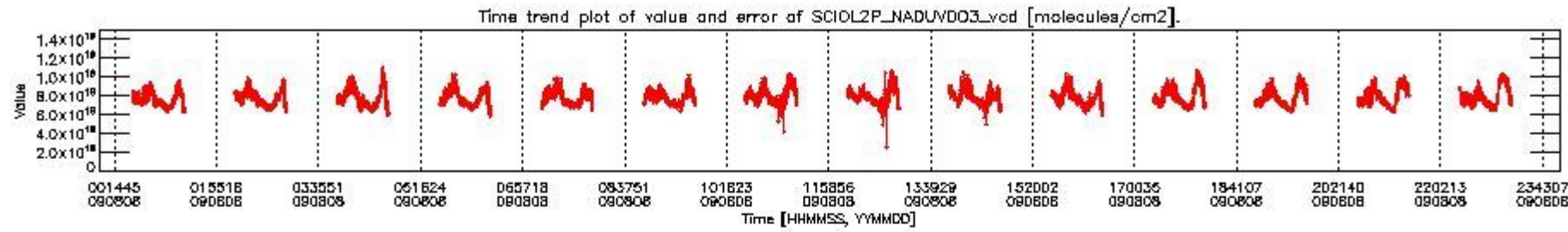
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

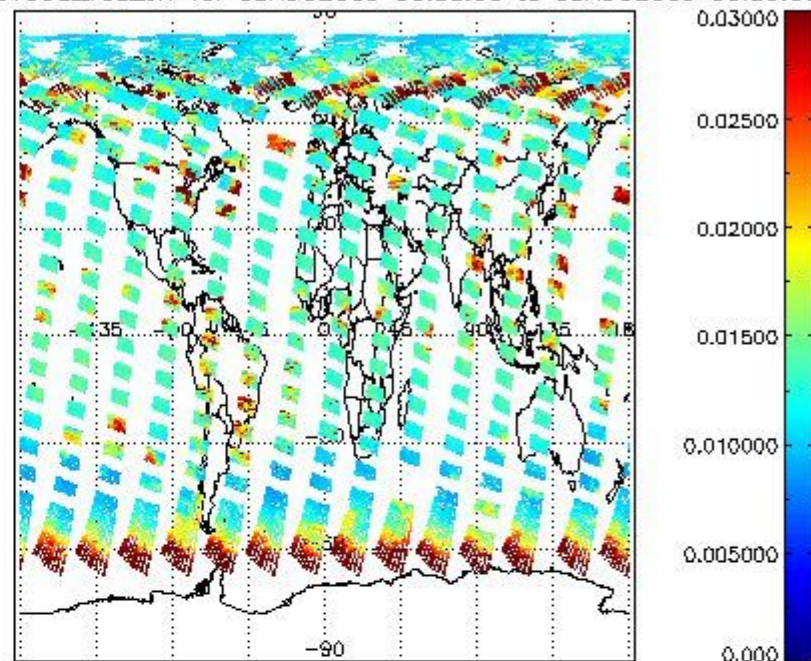
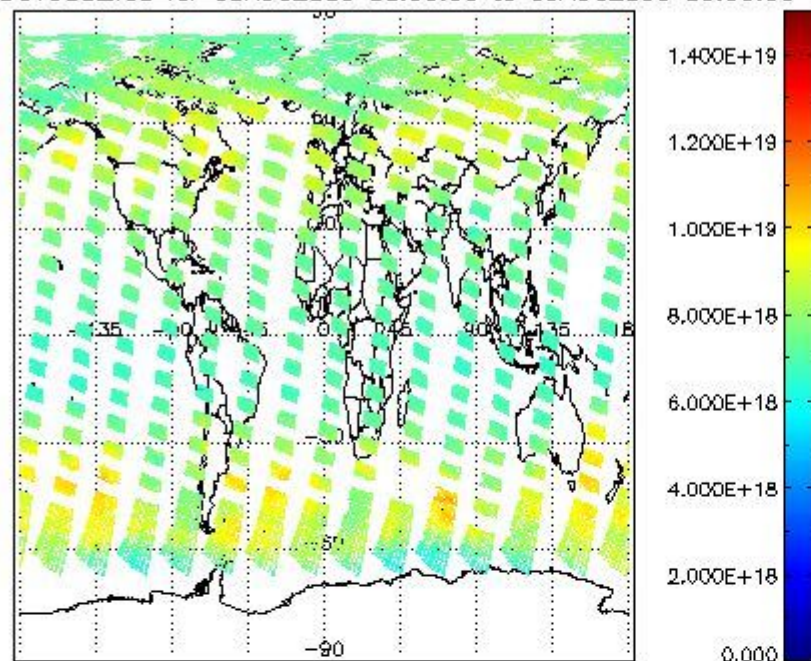
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

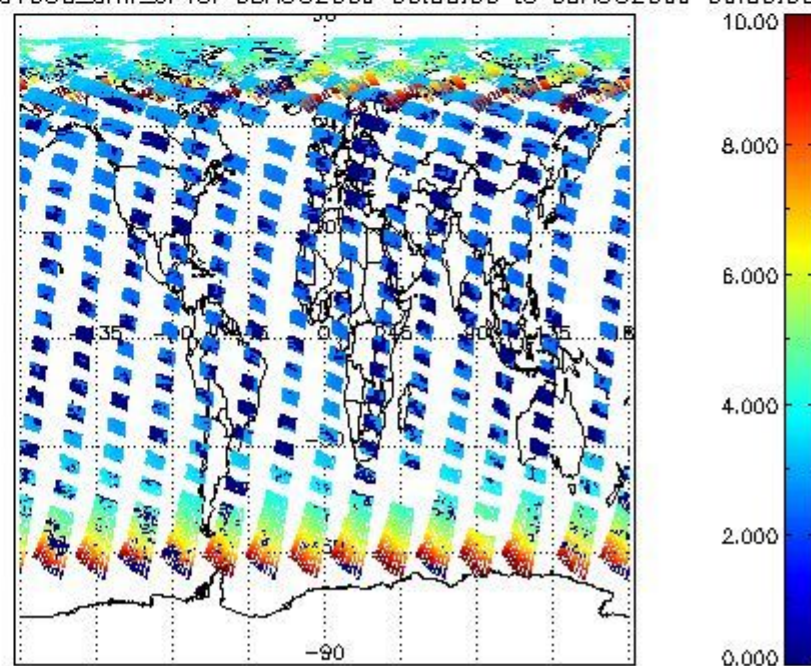
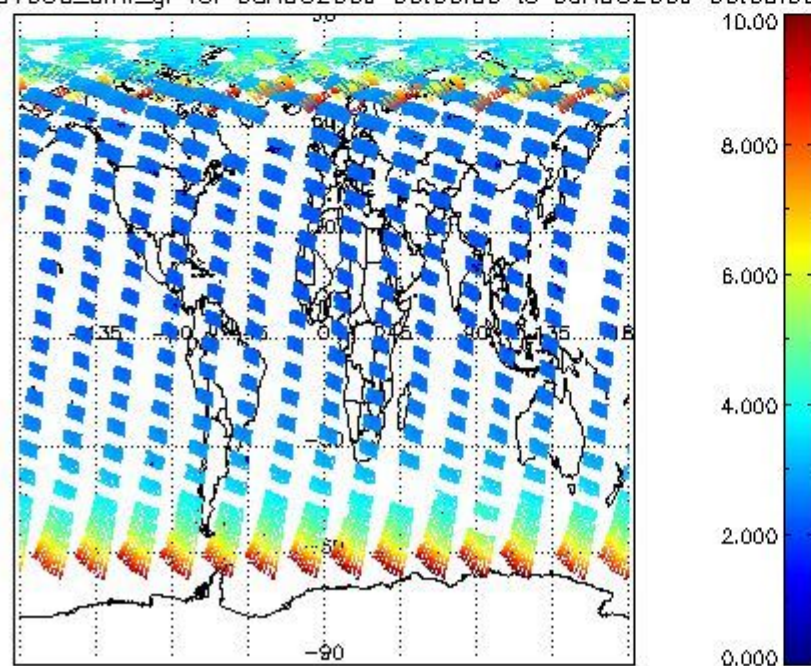
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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

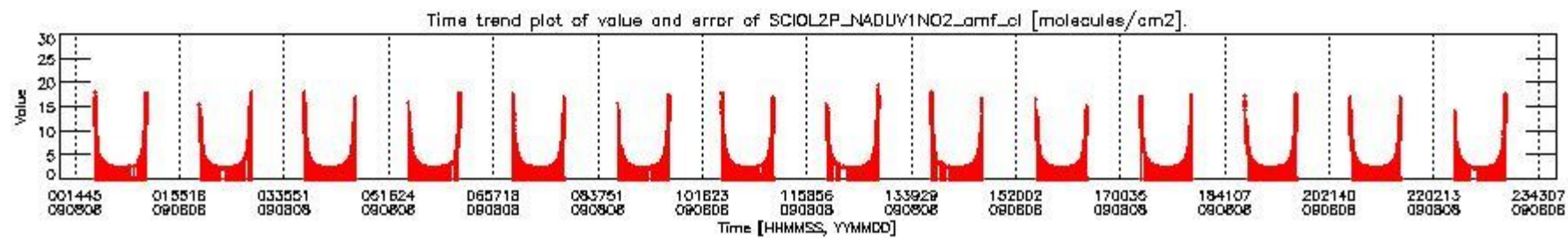
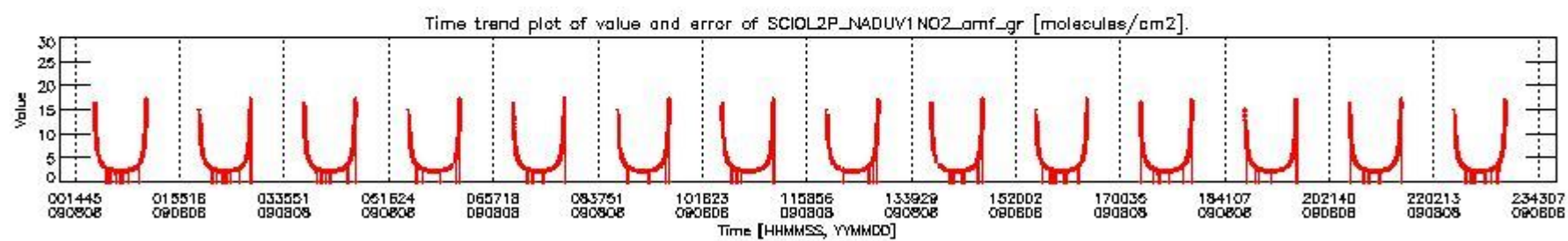
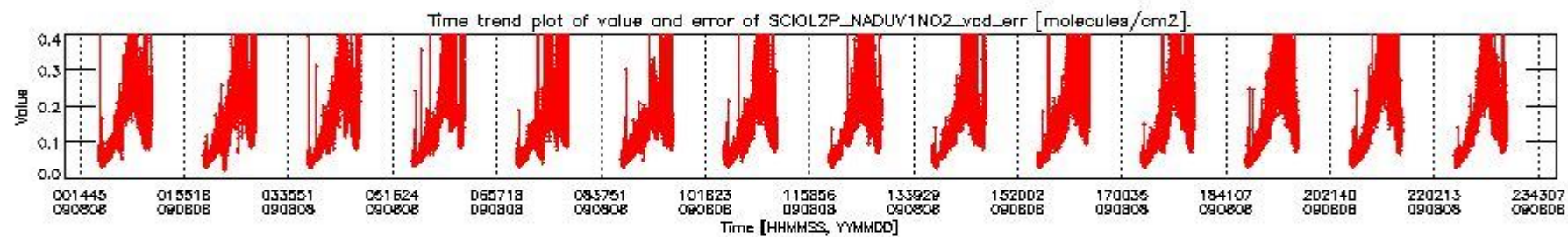
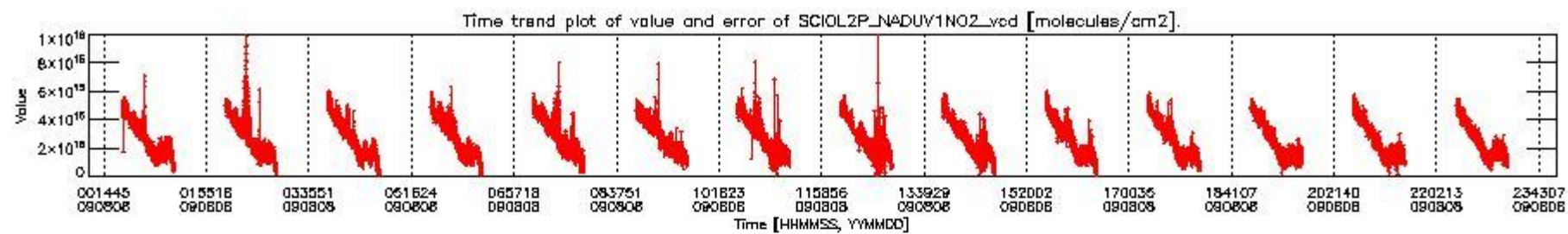


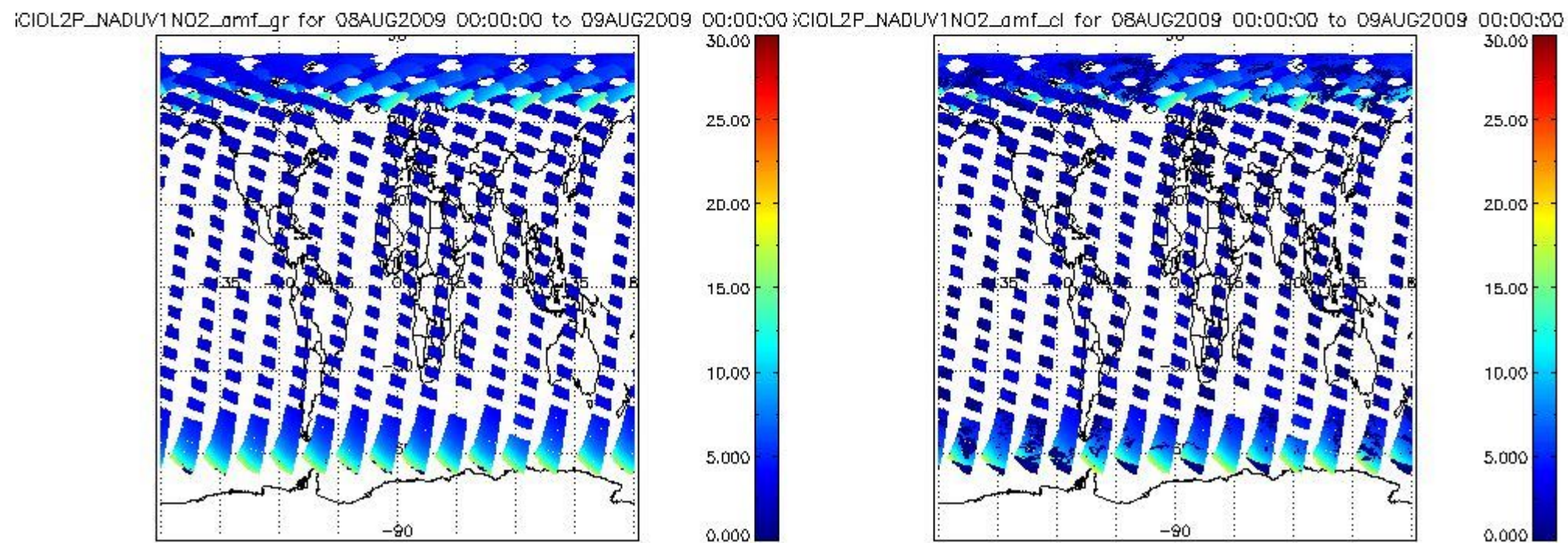
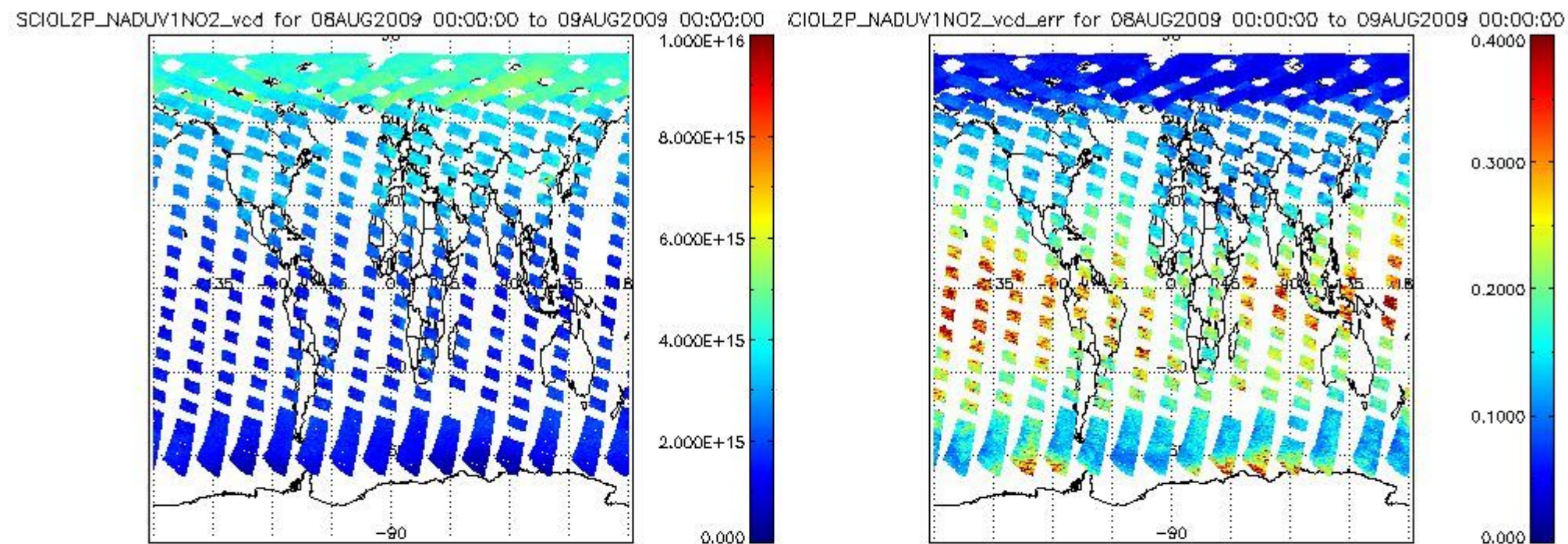
SCIOL2P_NADUV003_vcd for 08AUG2009 00:00:00 to 09AUG2009 00:00:00 SCIOL2P_NADUV003_vcd_err for 08AUG2009 00:00:00 to 09AUG2009 00:00:00



SCIOL2P_NADUV003_amf_gr for 08AUG2009 00:00:00 to 09AUG2009 00:00:00 SCIOL2P_NADUV003_amf_cl for 08AUG2009 00:00:00 to 09AUG2009 00:00:00







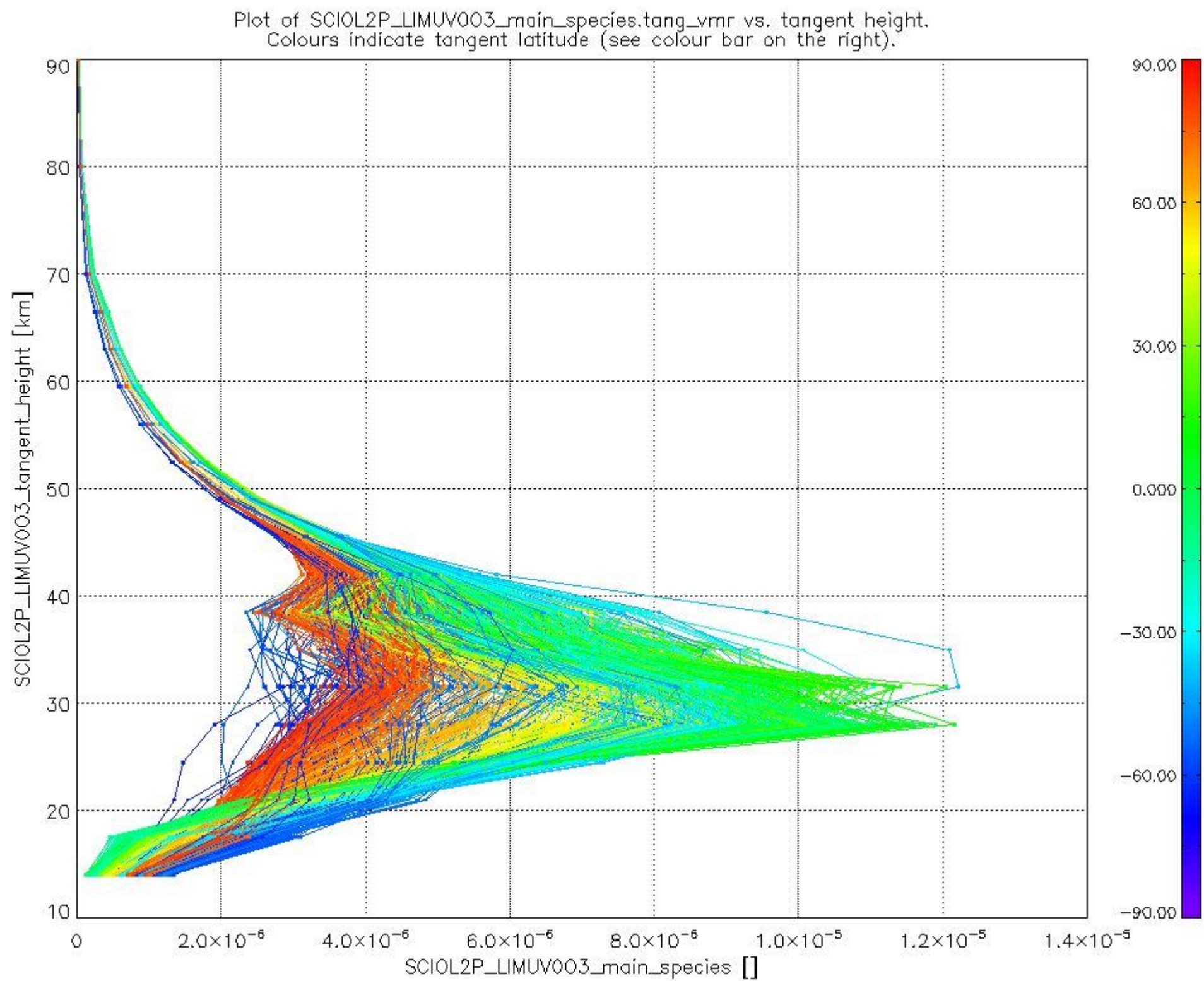
2.2.3 Limb

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

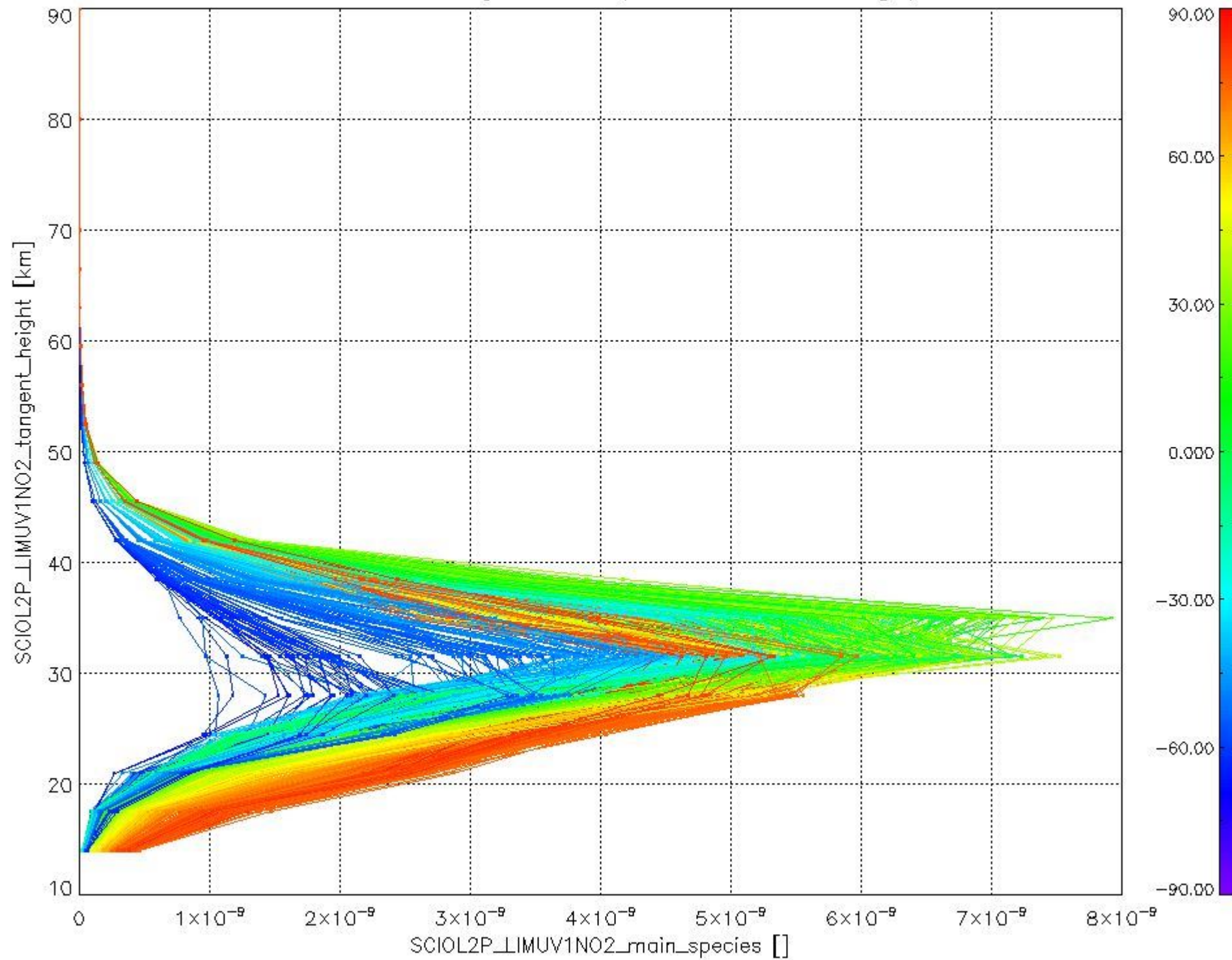
The following data items are currently included into this section:

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.



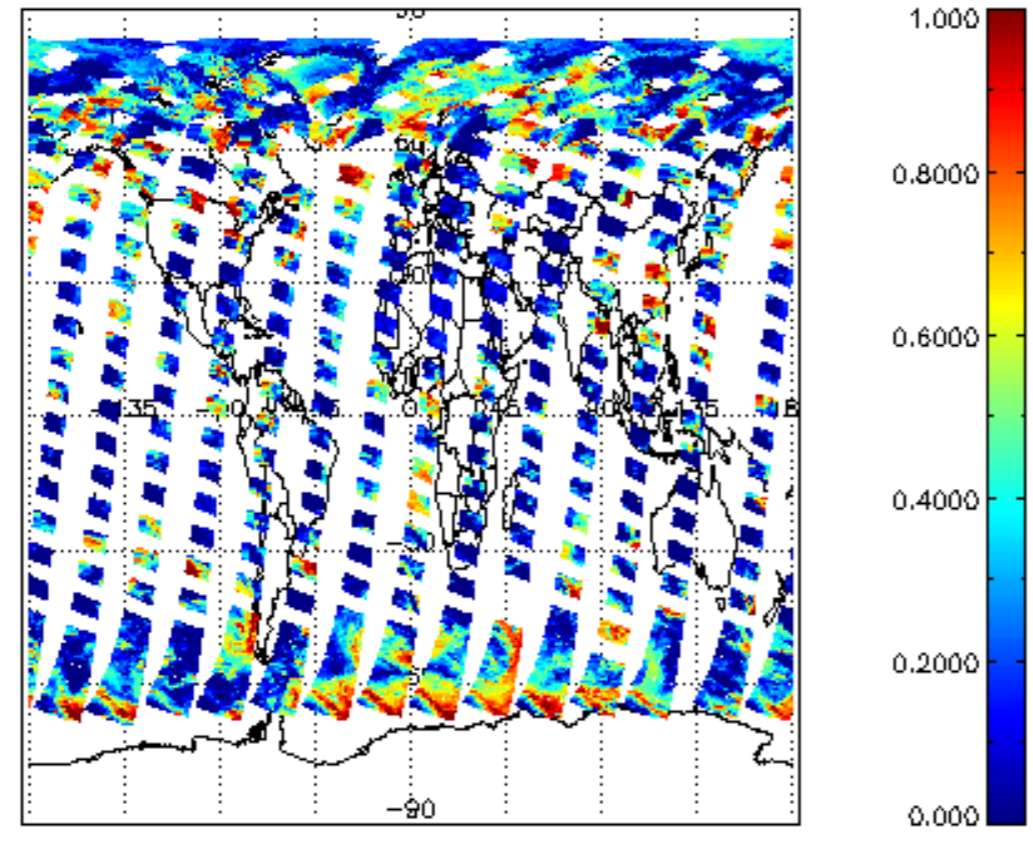
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



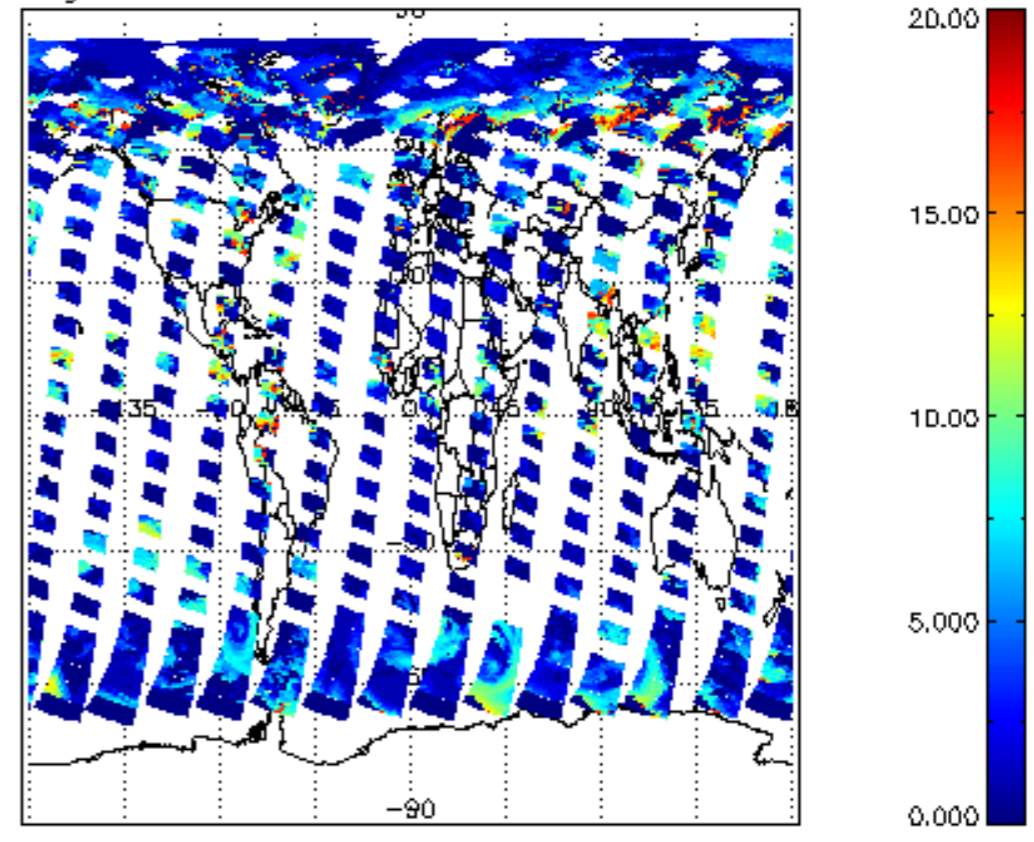
2.3 ADF monitoring

Number	ADF
	IN_ (INITIALISATION_FILE)
0	SCI_IN_AXNPDE20070629_092400_20070720_000000_20991231_235959
	ECF (ECMWF_FILE)
1	NOT USED

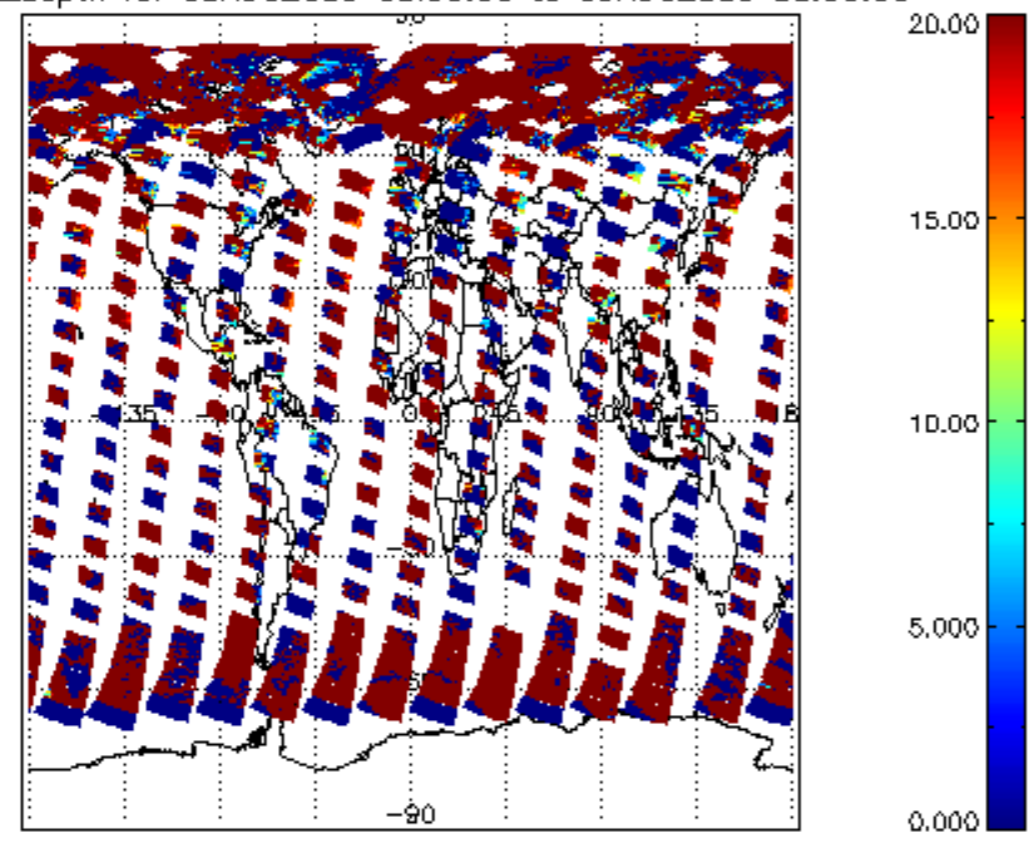
cL_frac for 08AUG2009 00:00:00 to 09AUG2009 00:00:00



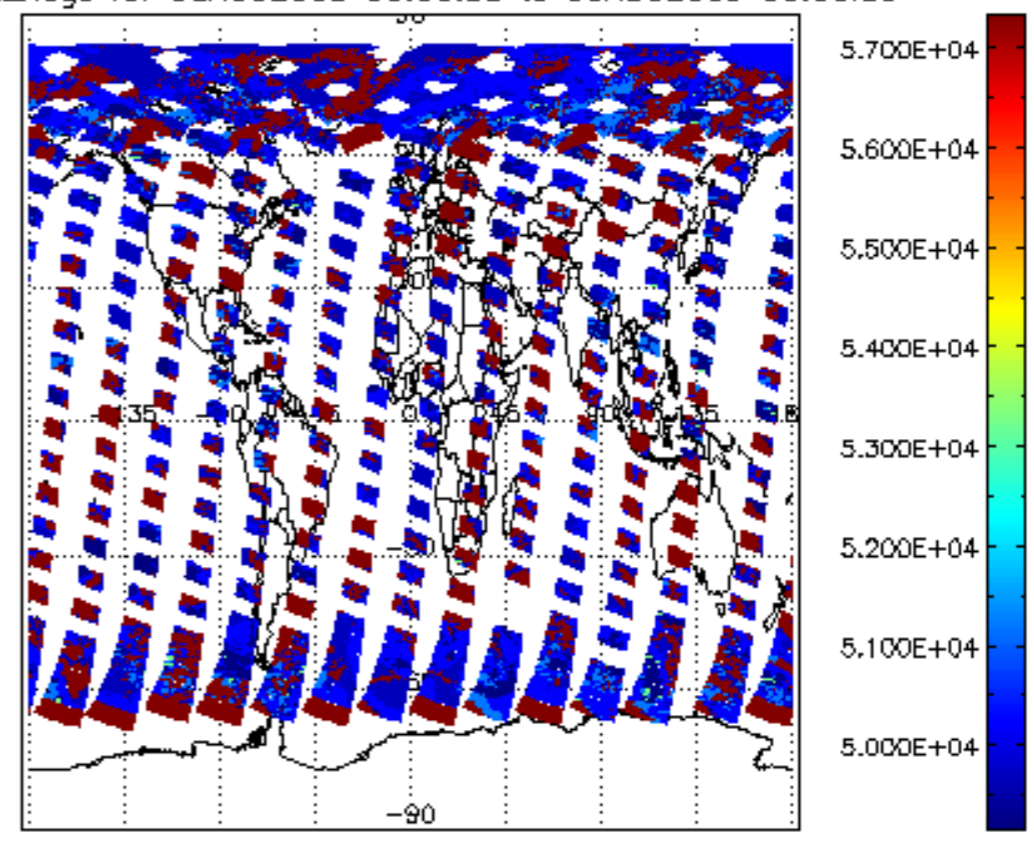
cL_top_height for 08AUG2009 00:00:00 to 09AUG2009 00:00:00

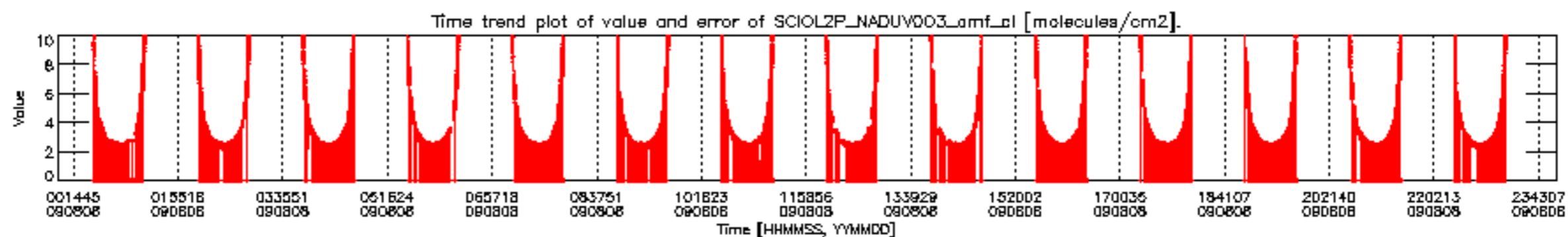
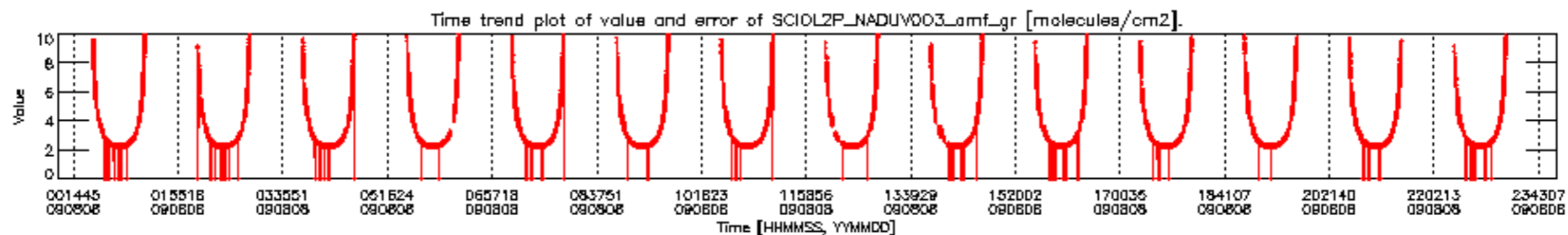
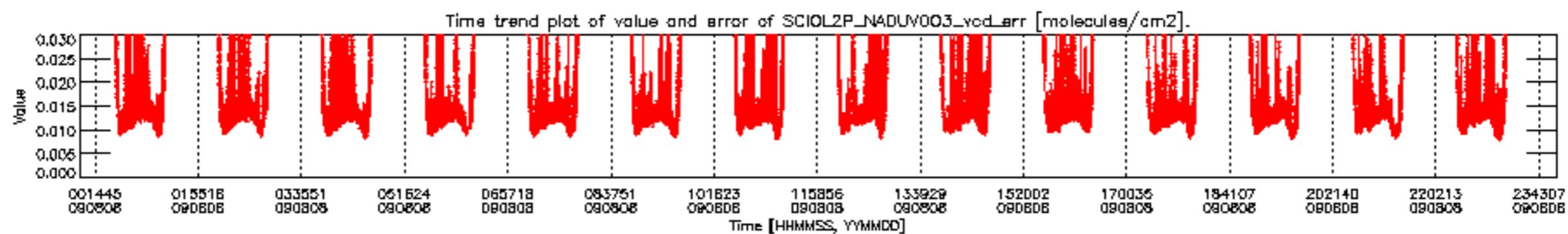
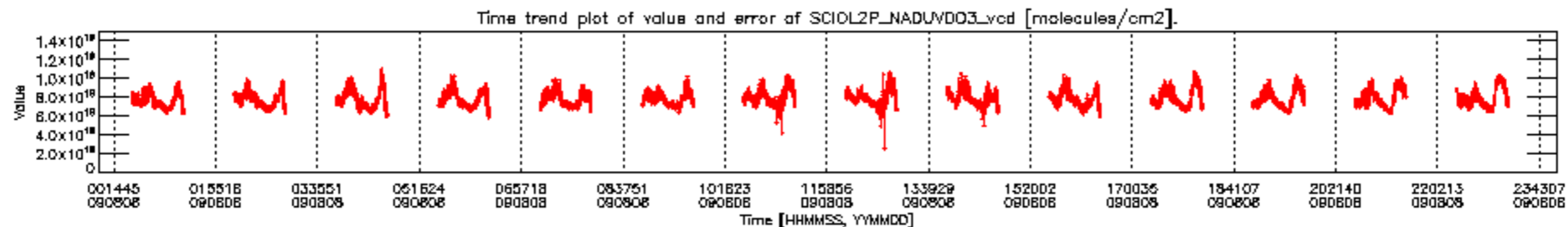


cL_opt_depth for 08AUG2009 00:00:00 to 09AUG2009 00:00:00

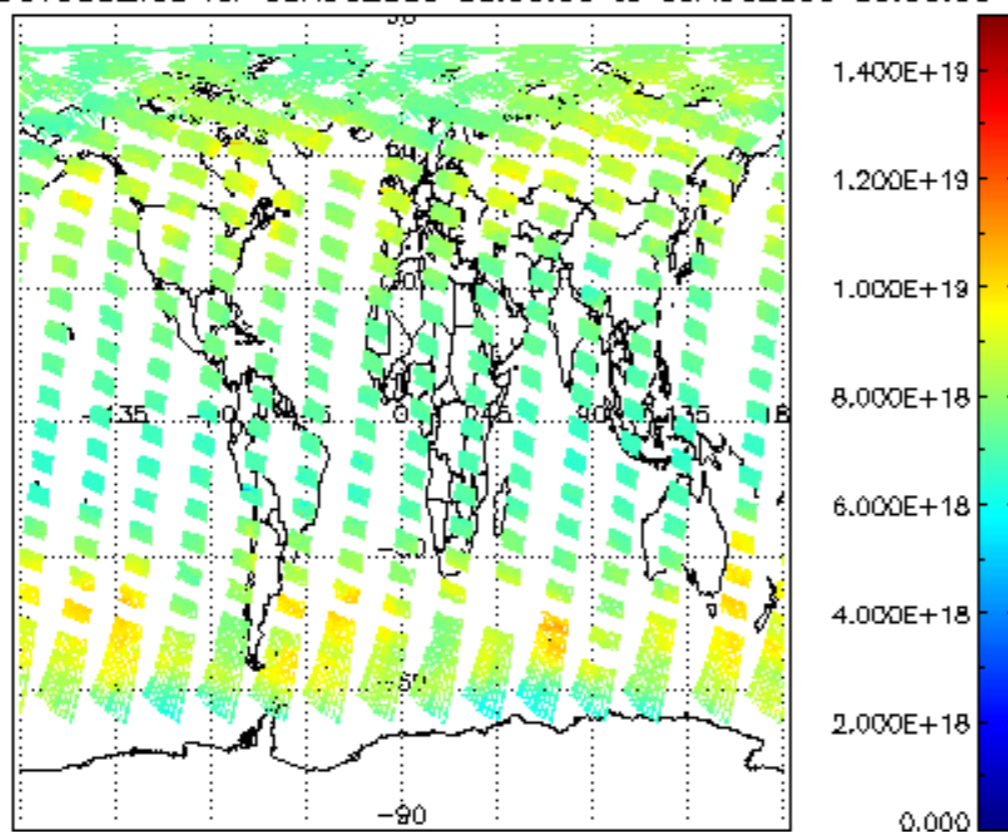


cloud_flags for 08AUG2009 00:00:00 to 09AUG2009 00:00:00

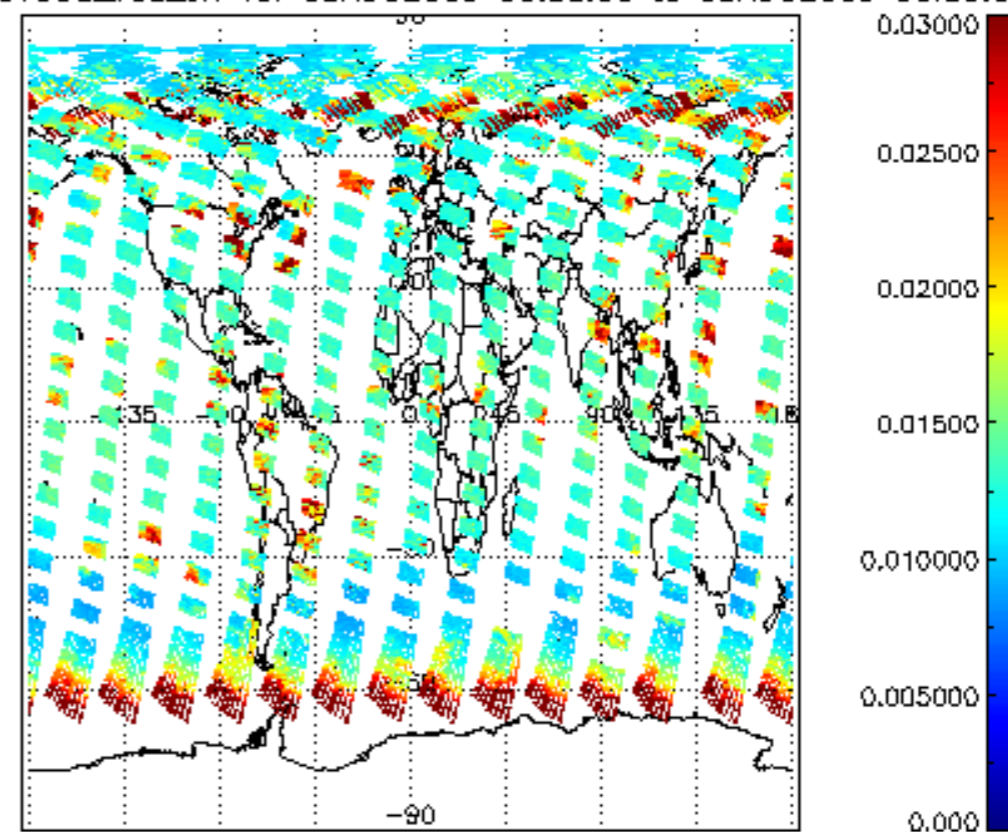




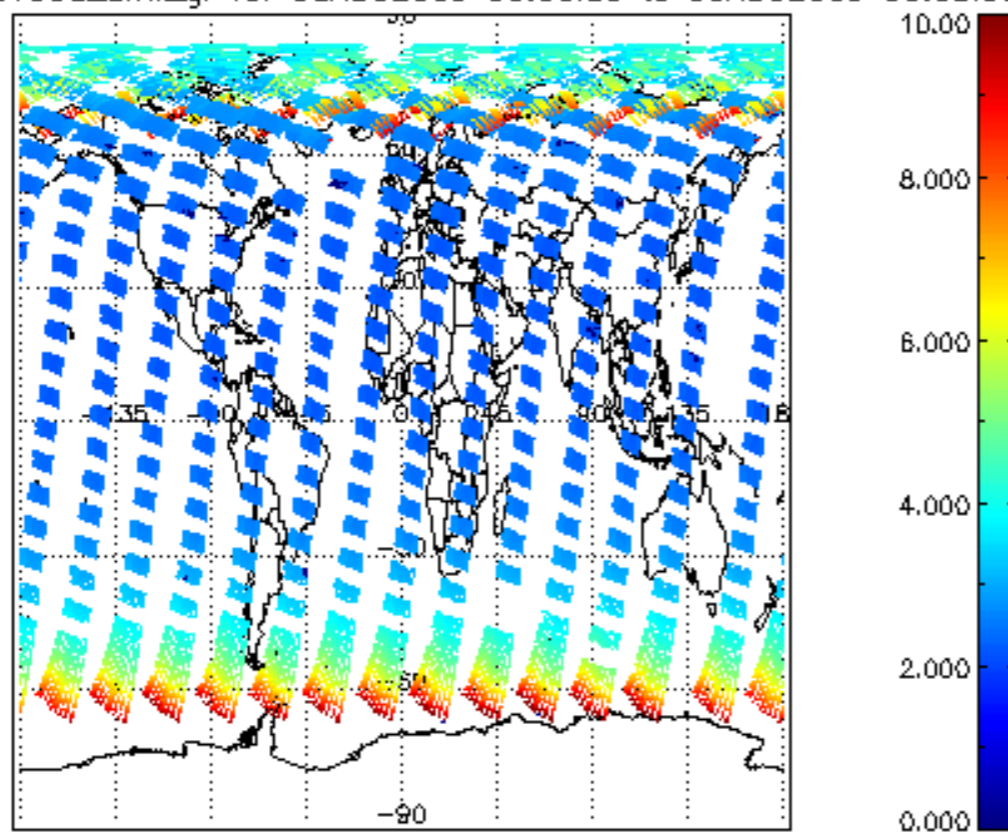
SCIOL2P_NADUV003_vcd for 08AUG2009 00:00:00 to 09AUG2009 00:00:00



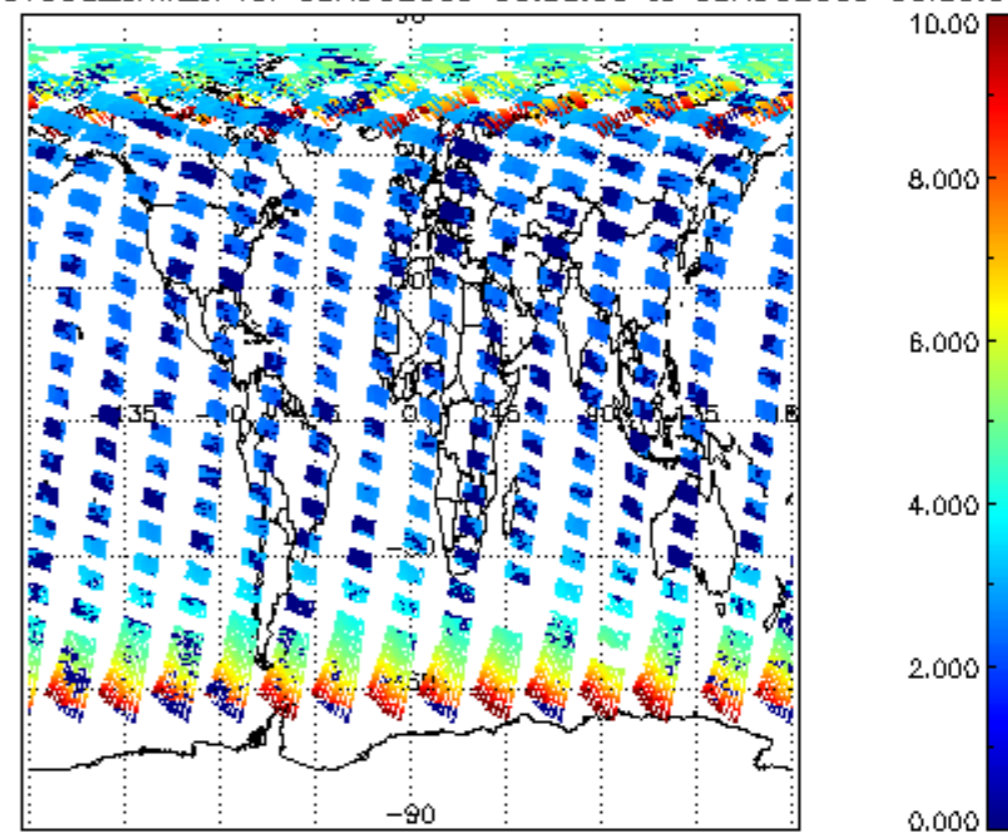
SCIOL2P_NADUV003_vcd_err for 08AUG2009 00:00:00 to 09AUG2009 00:00:00

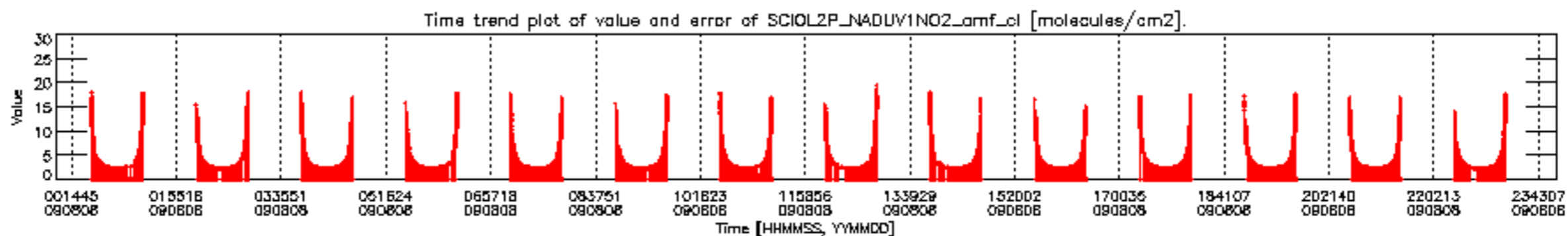
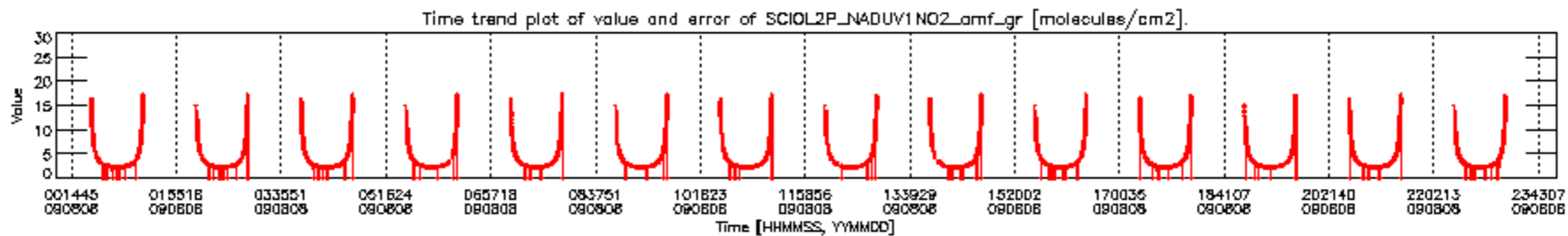
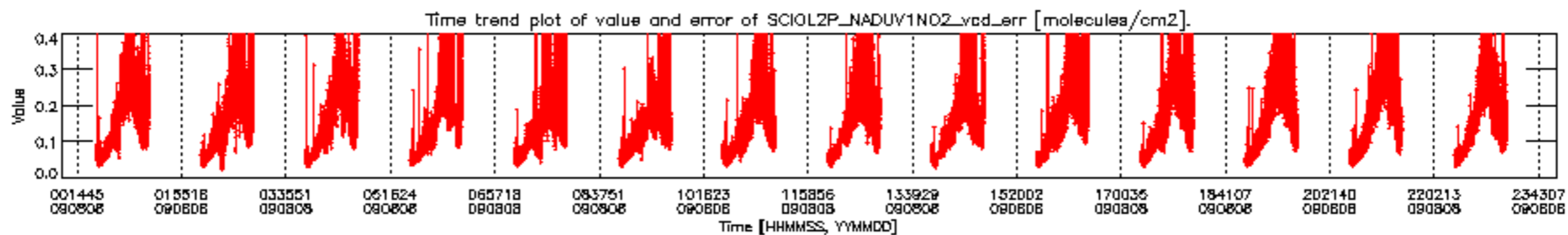
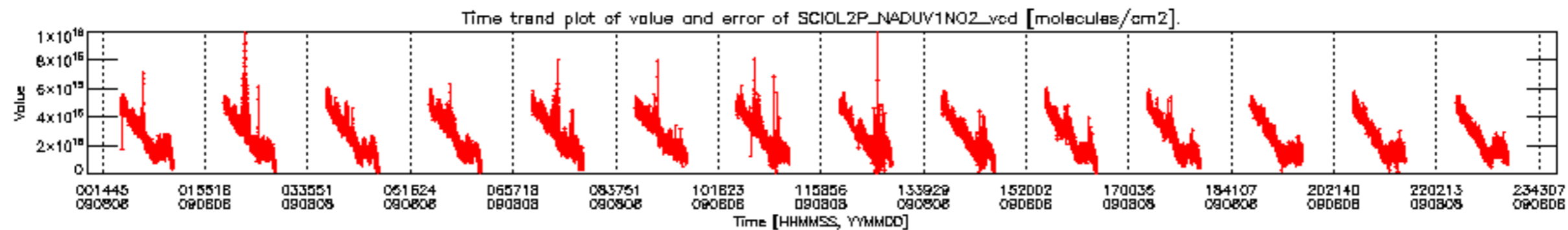


SCIOL2P_NADUV003_amf_gr for 08AUG2009 00:00:00 to 09AUG2009 00:00:00

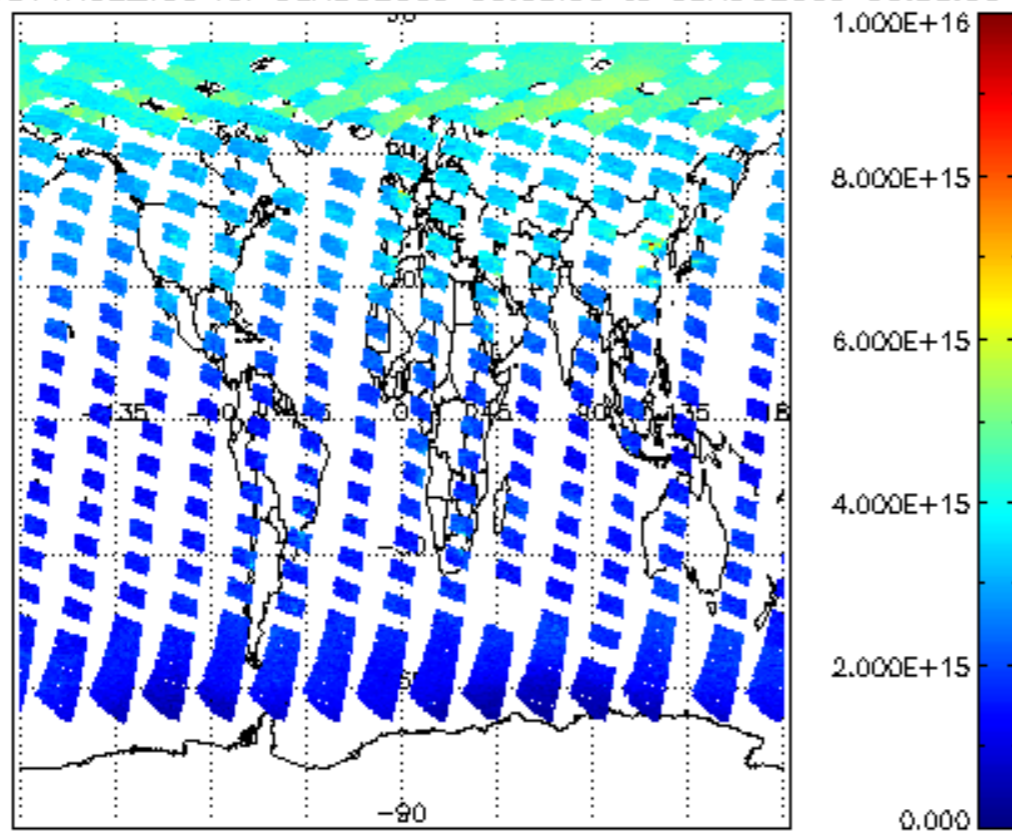


SCIOL2P_NADUV003_amf_cl for 08AUG2009 00:00:00 to 09AUG2009 00:00:00

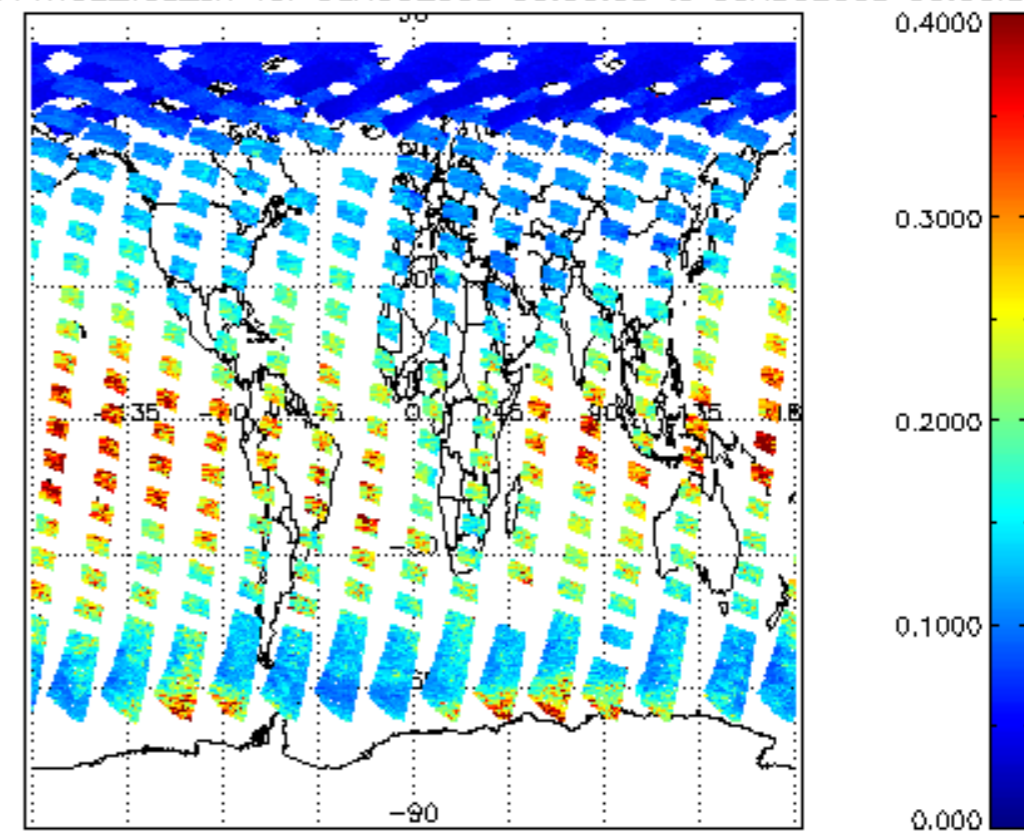




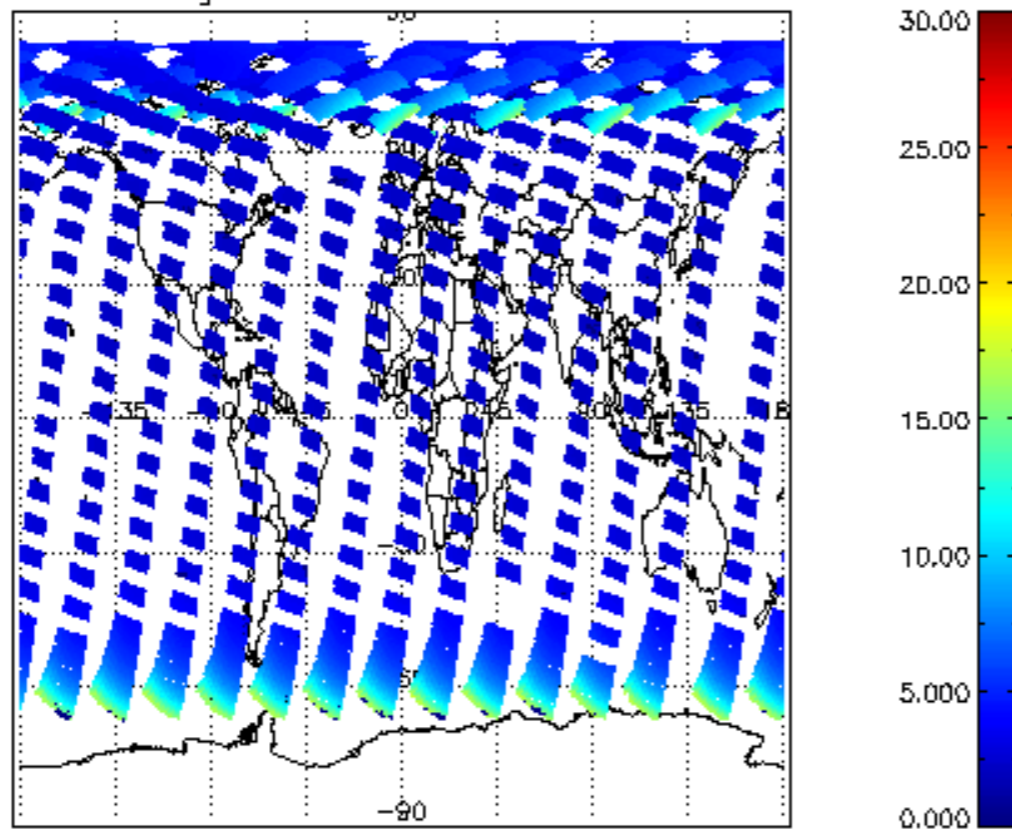
SCIOL2P_NADUV1NO2_vcd for 08AUG2009 00:00:00 to 09AUG2009 00:00:00



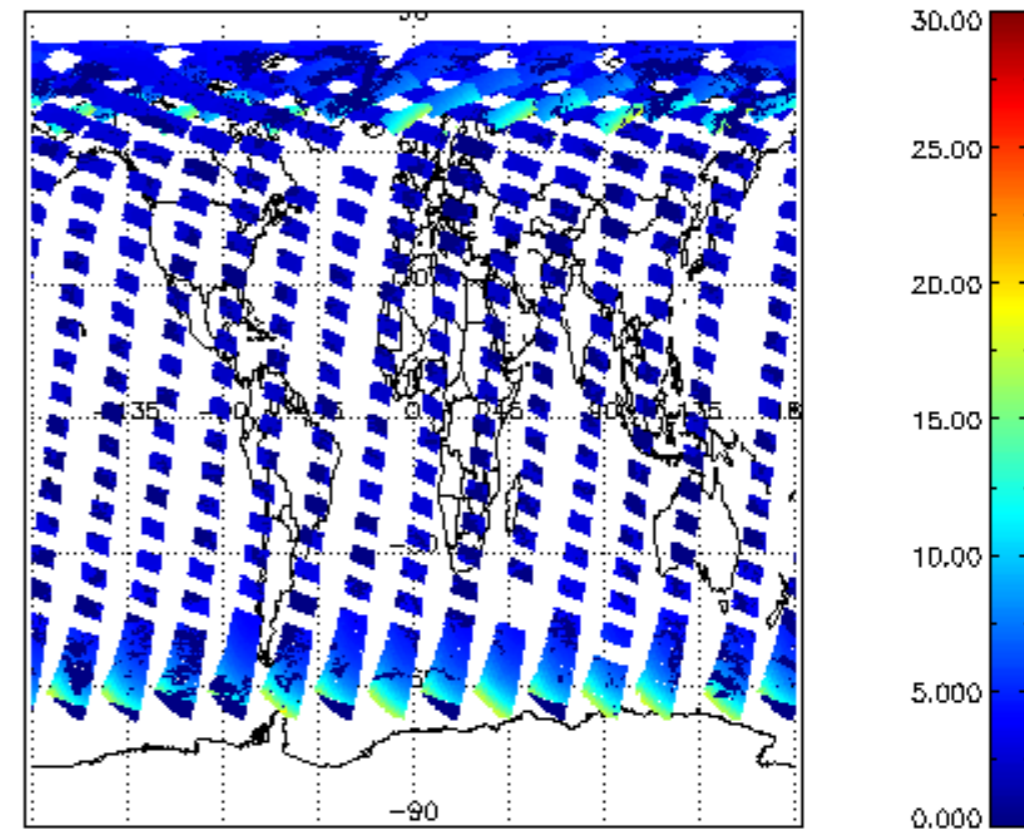
SCIOL2P_NADUV1NO2_vcd_err for 08AUG2009 00:00:00 to 09AUG2009 00:00:00



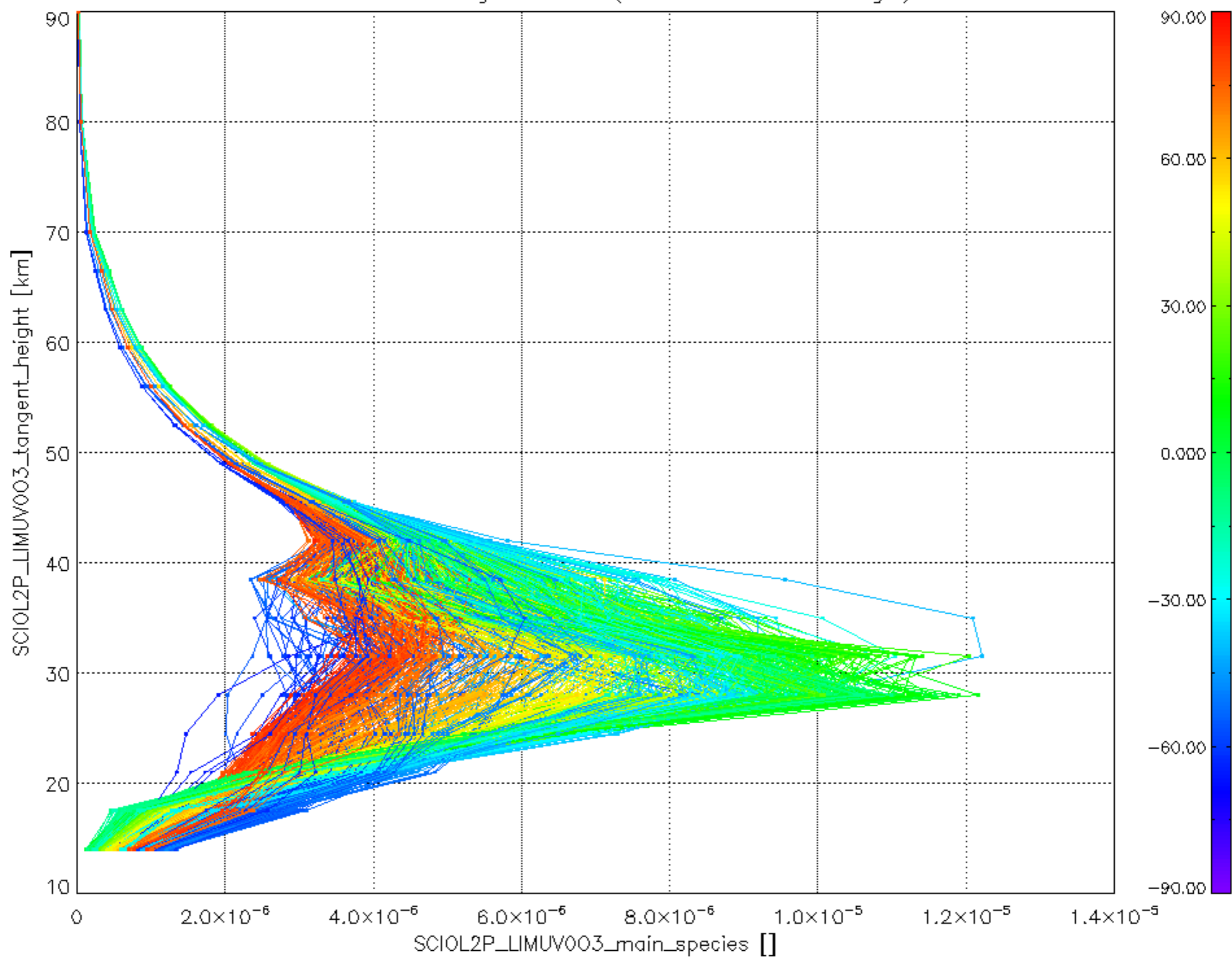
ICIOL2P_NADUV1NO2_amf_gr for 08AUG2009 00:00:00 to 09AUG2009 00:00:00



ICIOL2P_NADUV1NO2_amf_cl for 08AUG2009 00:00:00 to 09AUG2009 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).

