

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	22DEC2008 17:38:55
Data source version	SCIA-OL/3.01-R
Processing scope for products	24NOV2008 00:00:00 to 25NOV2008 00:00:00
Start time of first product within scope	24NOV2008 00:20:52
Stop time of last product within scope	25NOV2008 00:41:44
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__2PRDPA20081124_002052_000031452074_00088_35212_5214.N1	24NOV2008 00:20:52	24NOV2008 01:13:17	0	GOOD
1	SCI_OL__2PRDPA20081124_015732_000033252074_00089_35213_4897.N1	24NOV2008 01:57:32	24NOV2008 02:52:57	0	GOOD
2	SCI_OL__2PRDPA20081124_033808_000033812074_00090_35214_4894.N1	24NOV2008 03:38:08	24NOV2008 04:34:29	0	GOOD
3	SCI_OL__2PRDPA20081124_051844_000033252074_00091_35215_4895.N1	24NOV2008 05:18:44	24NOV2008 06:14:10	0	GOOD
4	SCI_OL__2PRDPA20081124_065920_000033812074_00092_35216_4891.N1	24NOV2008 06:59:20	24NOV2008 07:55:42	0	GOOD
5	SCI_OL__2PRDPA20081124_083957_000033252074_00093_35217_4885.N1	24NOV2008 08:39:57	24NOV2008 09:35:22	0	GOOD
6	SCI_OL__2PRDPA20081124_102033_000033812074_00094_35218_5215.N1	24NOV2008 10:20:33	24NOV2008 11:16:54	0	GOOD
7	SCI_OL__2PRDPA20081124_120109_000033252074_00095_35219_5216.N1	24NOV2008 12:01:09	24NOV2008 12:56:34	0	GOOD
8	SCI_OL__2PRDPA20081124_134145_000033812074_00096_35220_5217.N1	24NOV2008 13:41:45	24NOV2008 14:38:06	0	GOOD
9	SCI_OL__2PRDPA20081124_152221_000033252074_00097_35221_5218.N1	24NOV2008 15:22:21	24NOV2008 16:17:47	0	GOOD
10	SCI_OL__2PRDPA20081124_170258_000033812074_00098_35222_5220.N1	24NOV2008 17:02:58	24NOV2008 17:59:19	0	GOOD
11	SCI_OL__2PRDPA20081124_184328_000033742074_00099_35223_5219.N1	24NOV2008 18:43:28	24NOV2008 19:39:42	0	GOOD
12	SCI_OL__2PRDPA20081124_202431_000033122074_00100_35224_5221.N1	24NOV2008 20:24:31	24NOV2008 21:19:44	0	GOOD
13	SCI_OL__2PRDPA20081124_220446_000033252074_00101_35225_5222.N1	24NOV2008 22:04:46	24NOV2008 23:00:12	0	GOOD
14	SCI_OL__2PRDPA20081124_234522_000033812074_00102_35226_5223.N1	24NOV2008 23:45:22	25NOV2008 00:41:44	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: 149392

Total number of cloud data DSRs with good quality flag (=0): 149392 (100.0 %)

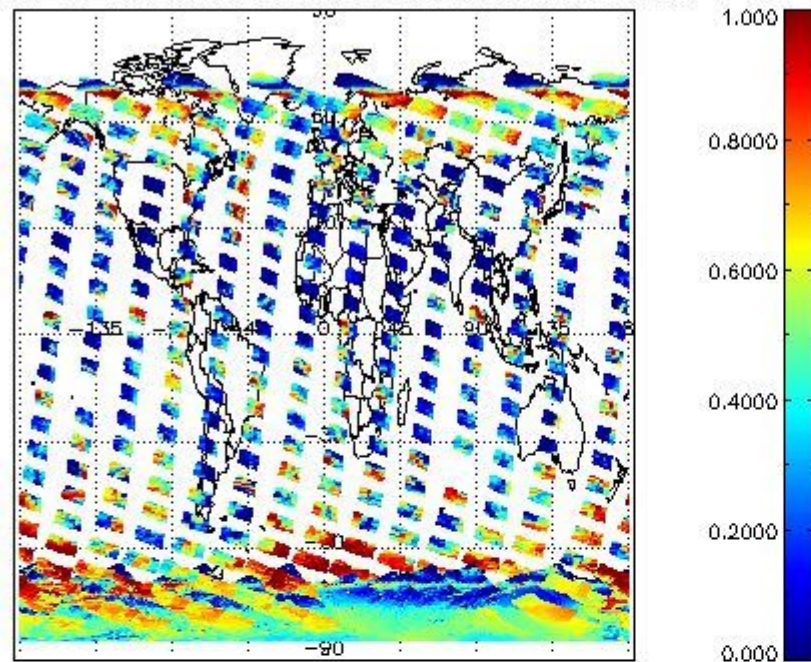
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	149392	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	149392	0.16851	0.12500	0.12500	0.25000	0.059545	s
CL_FRAC	149392	0.40074	0.41050	0.0000	1.0000	0.27740	-
CL_FRAC_ERR	149392	0.0000	0.0000	0.0000	0.0000	0.0000	rel. fraction
PMD_READ	149392	5.3923	4.0000	4.0000	8.0000	1.9054	
PMD_READ_CL[0]	149392	0.22102	0.0000	0.0000	8.0000	1.0732	-
PMD_READ_CL[1]	149392	0.86111	0.0000	0.0000	8.0000	2.0175	-
CL_TOP_HEIGHT	126356	3.9488	2.9493	0.0000	17.000	3.7362	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	126356	55.746	47.897	0.0000	101.00	40.607	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	149392	11100000	11100000	11100000	11100000	0.0000	flags. Bit definition = 0: low or high cloud; 1: ice or water cloud; 2: thick or thin cloud; 3-15: not used
CLOUD_FLAGS	149392	11001010	11000100	11000000	11100000	3280.3	flags
AERO_ABSO_IND	149392	3.1187	3.3967	-1.3223	13.960	2.2634	
AERO_IND_DIAG	149392	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	149392	01010101	00000000	00000000	11000000	24429.	flags

Time and geolocation plots:

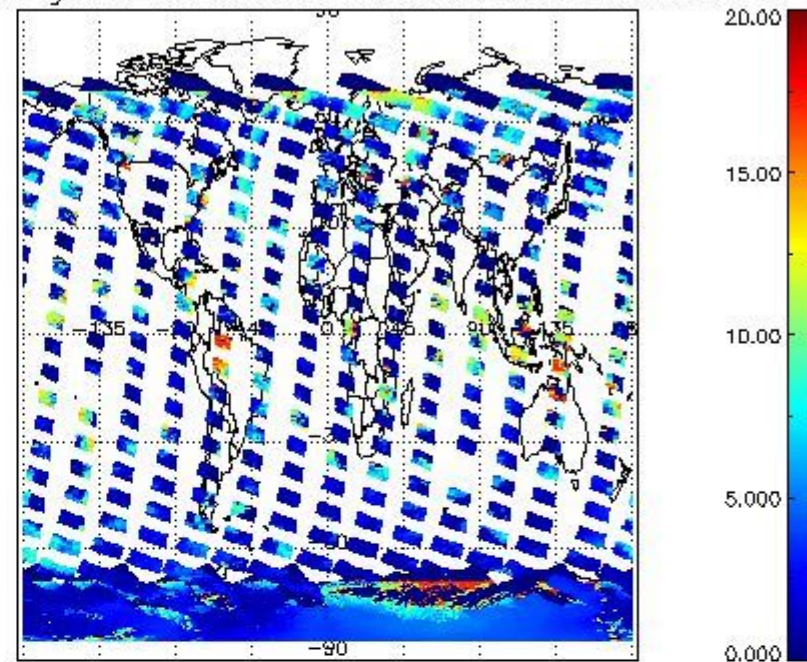
Plots are available for the following parameters:

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

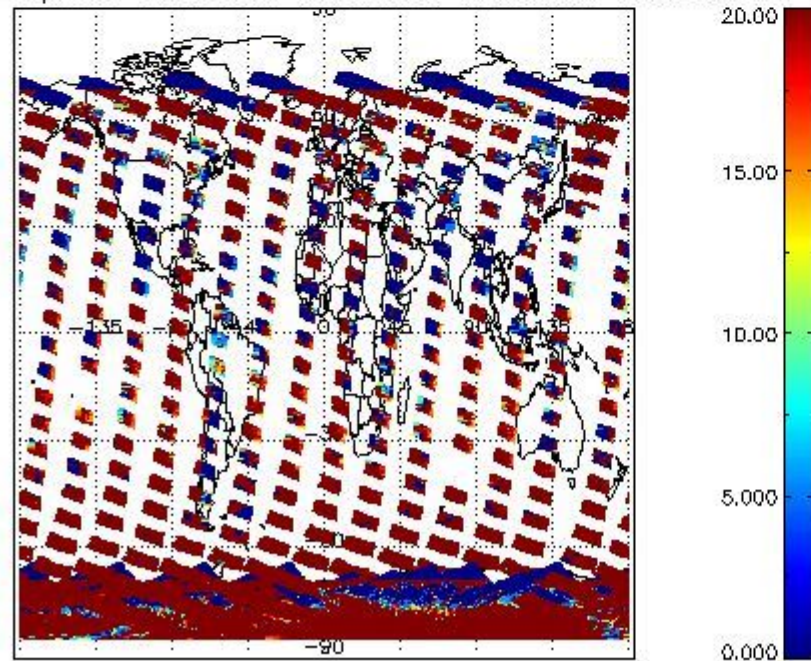
cLfrac for 24NOV2008 00:00:00 to 25NOV2008 00:00:00



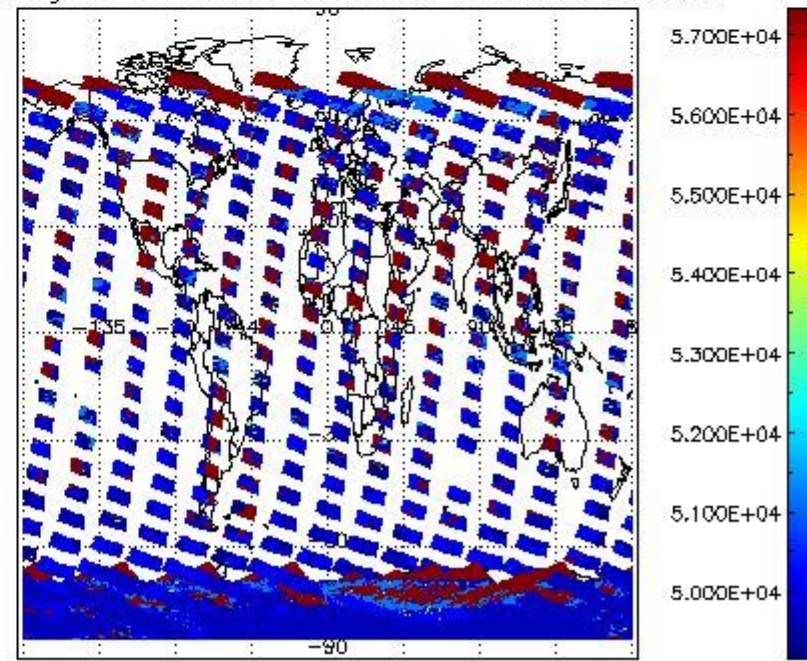
cL_top_height for 24NOV2008 00:00:00 to 25NOV2008 00:00:00



cLopt_depth for 24NOV2008 00:00:00 to 25NOV2008 00:00:00



cloud_flags for 24NOV2008 00:00:00 to 25NOV2008 00:00:00



2.2.2 Nadir

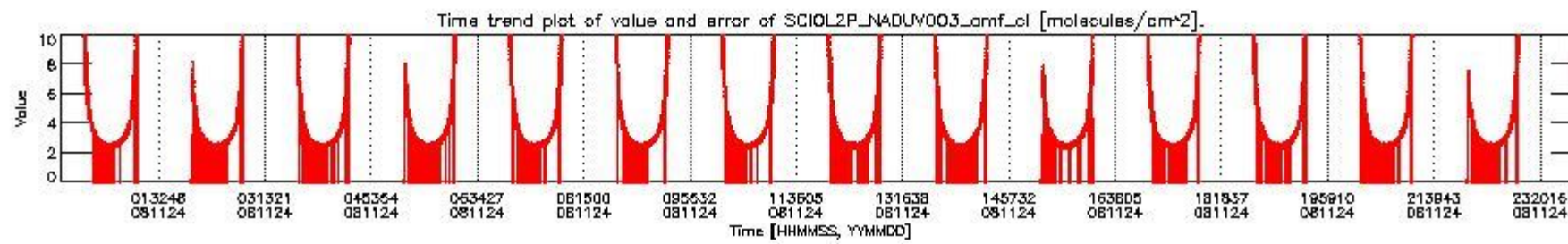
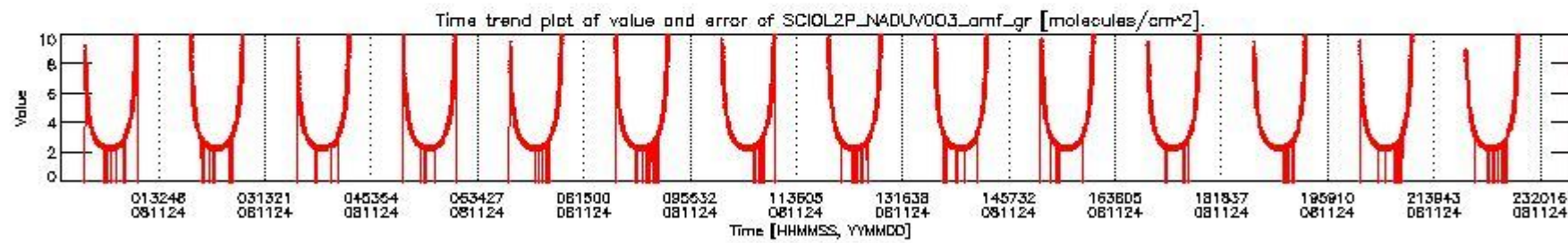
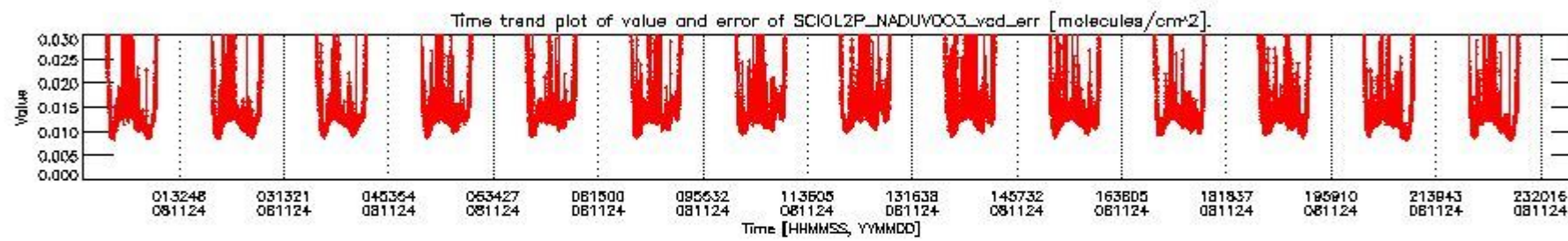
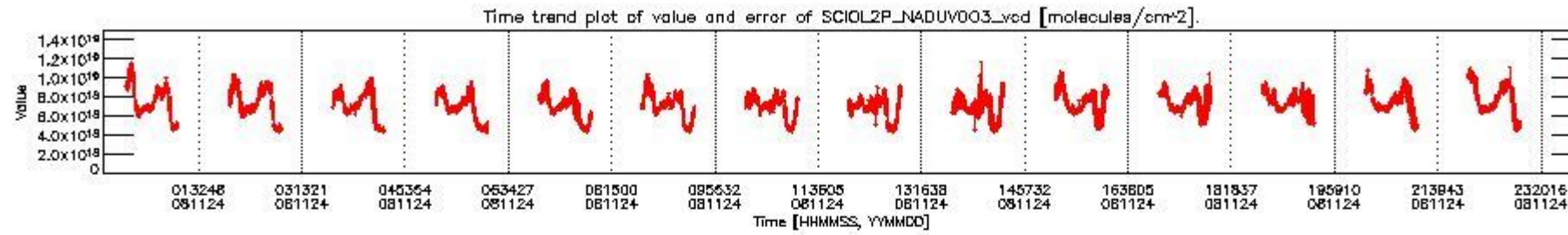
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

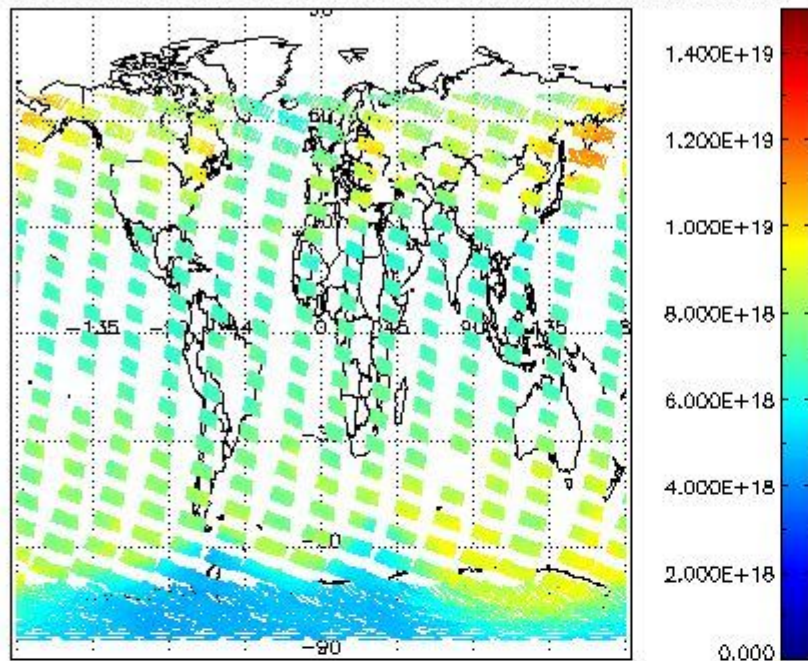
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

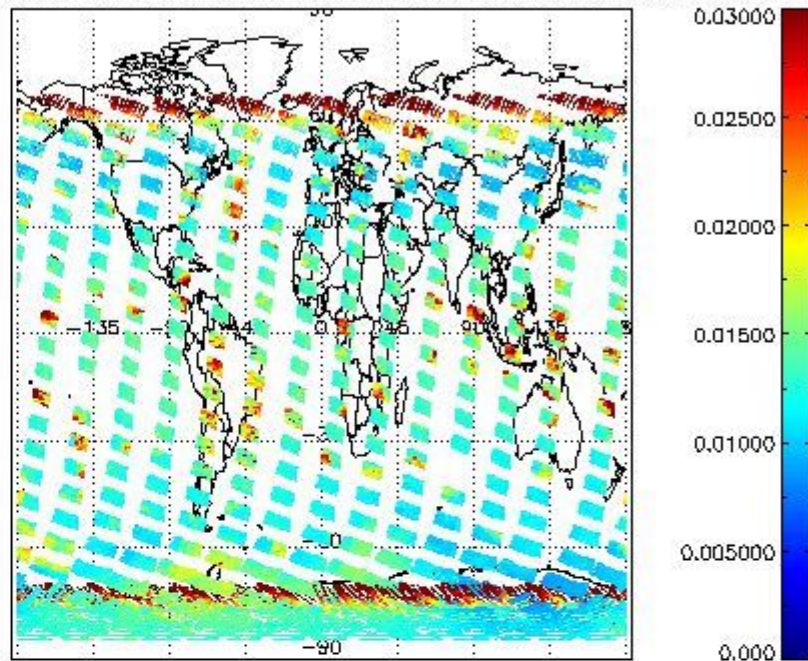
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



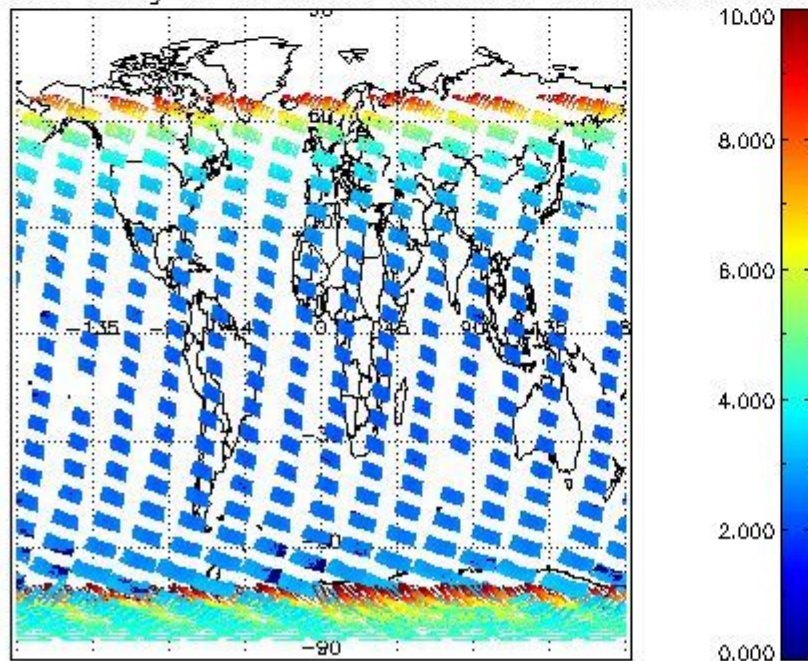
SCIOL2P_NADUV003_vcd for 24NOV2008 00:00:00 to 25NOV2008 00:00:00



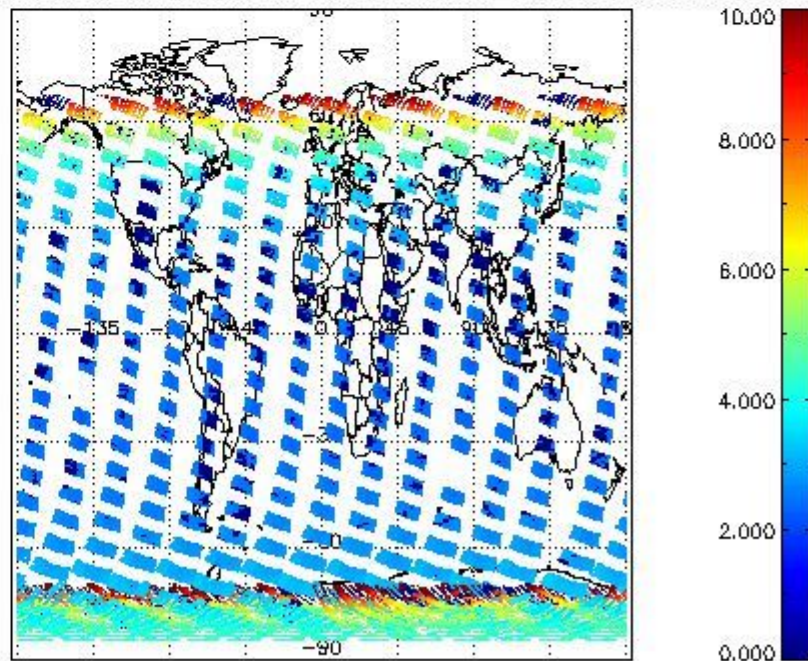
SCIOL2P_NADUV003_vcd_err for 24NOV2008 00:00:00 to 25NOV2008 00:00:00

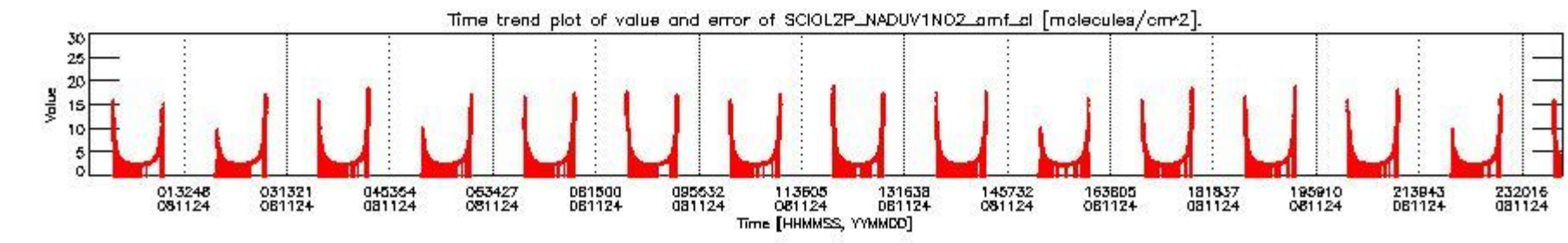
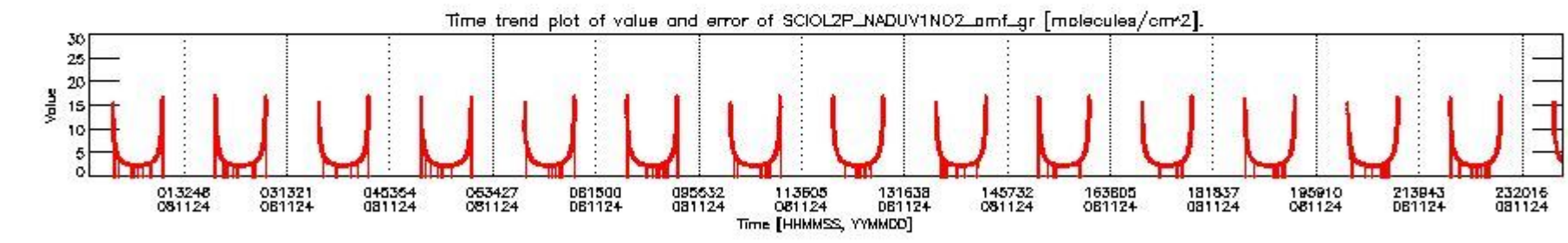
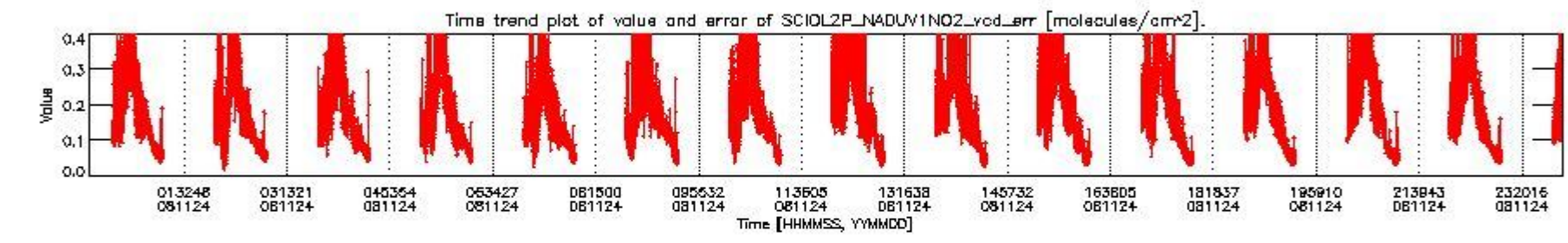
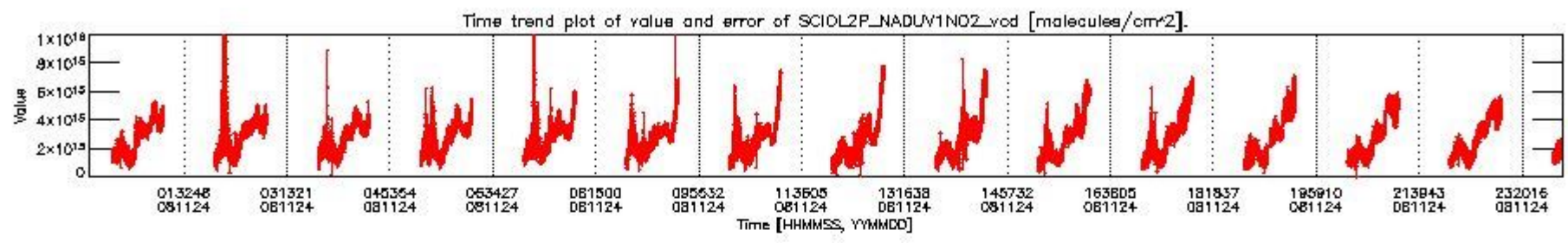


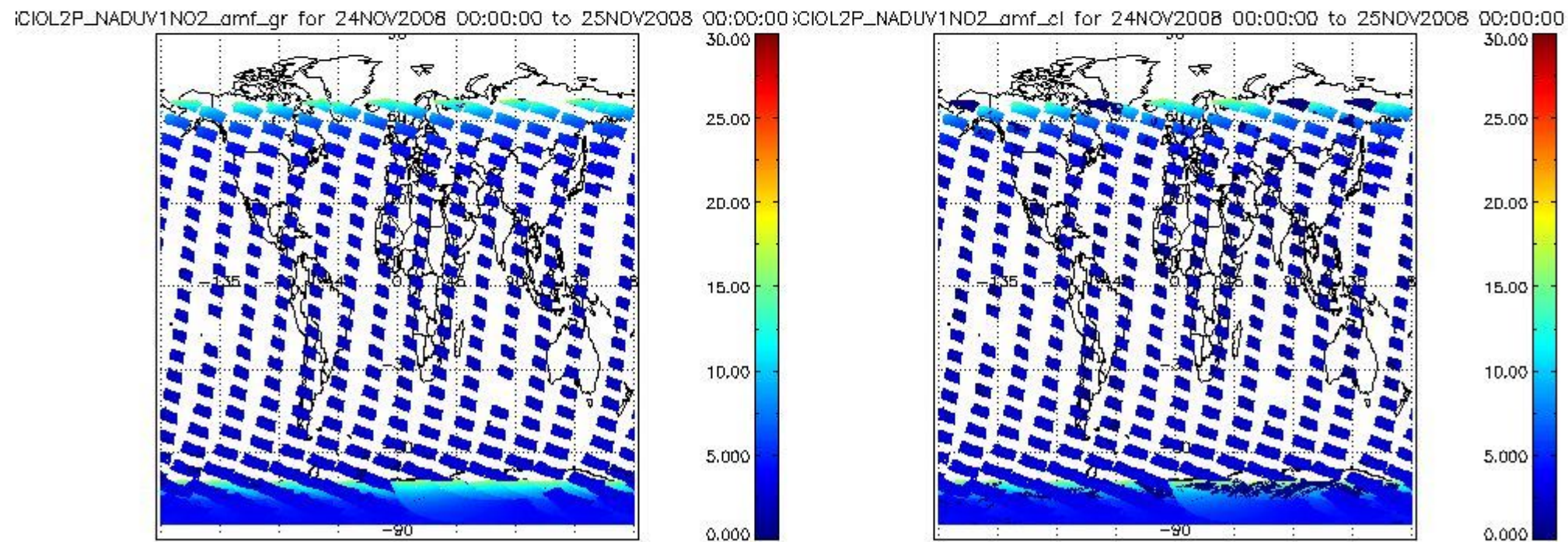
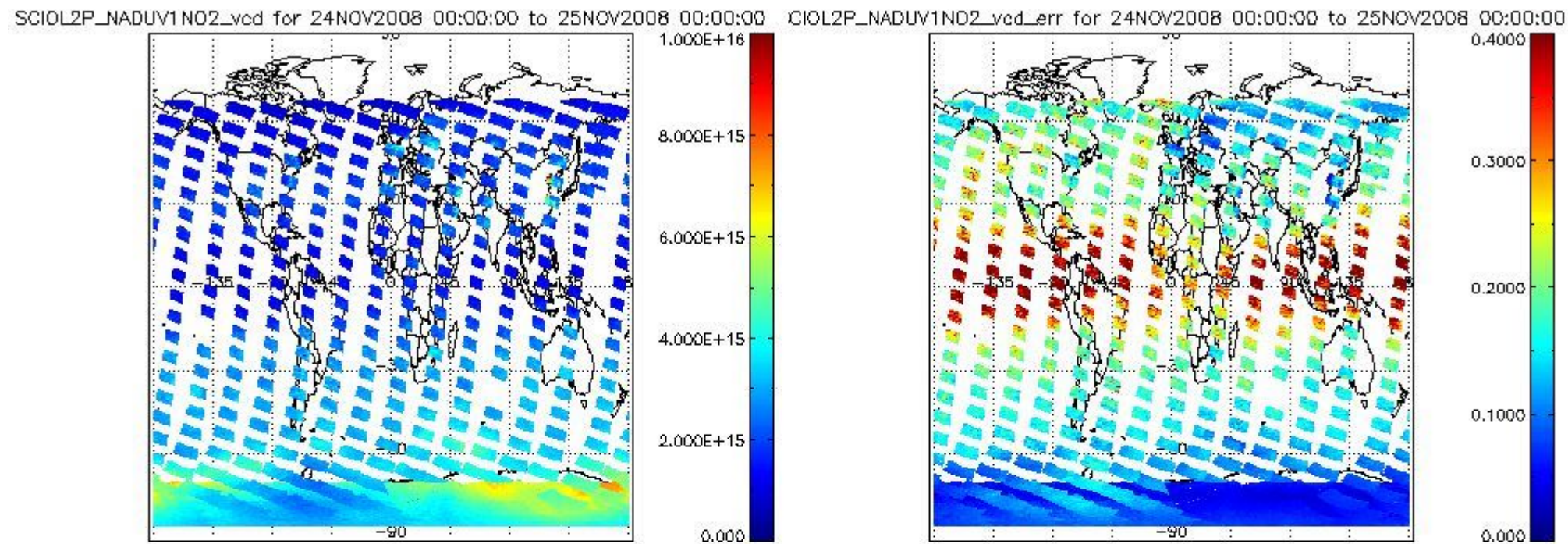
SCIOL2P_NADUV003_amf_gr for 24NOV2008 00:00:00 to 25NOV2008 00:00:00



SCIOL2P_NADUV003_amf_cl for 24NOV2008 00:00:00 to 25NOV2008 00:00:00







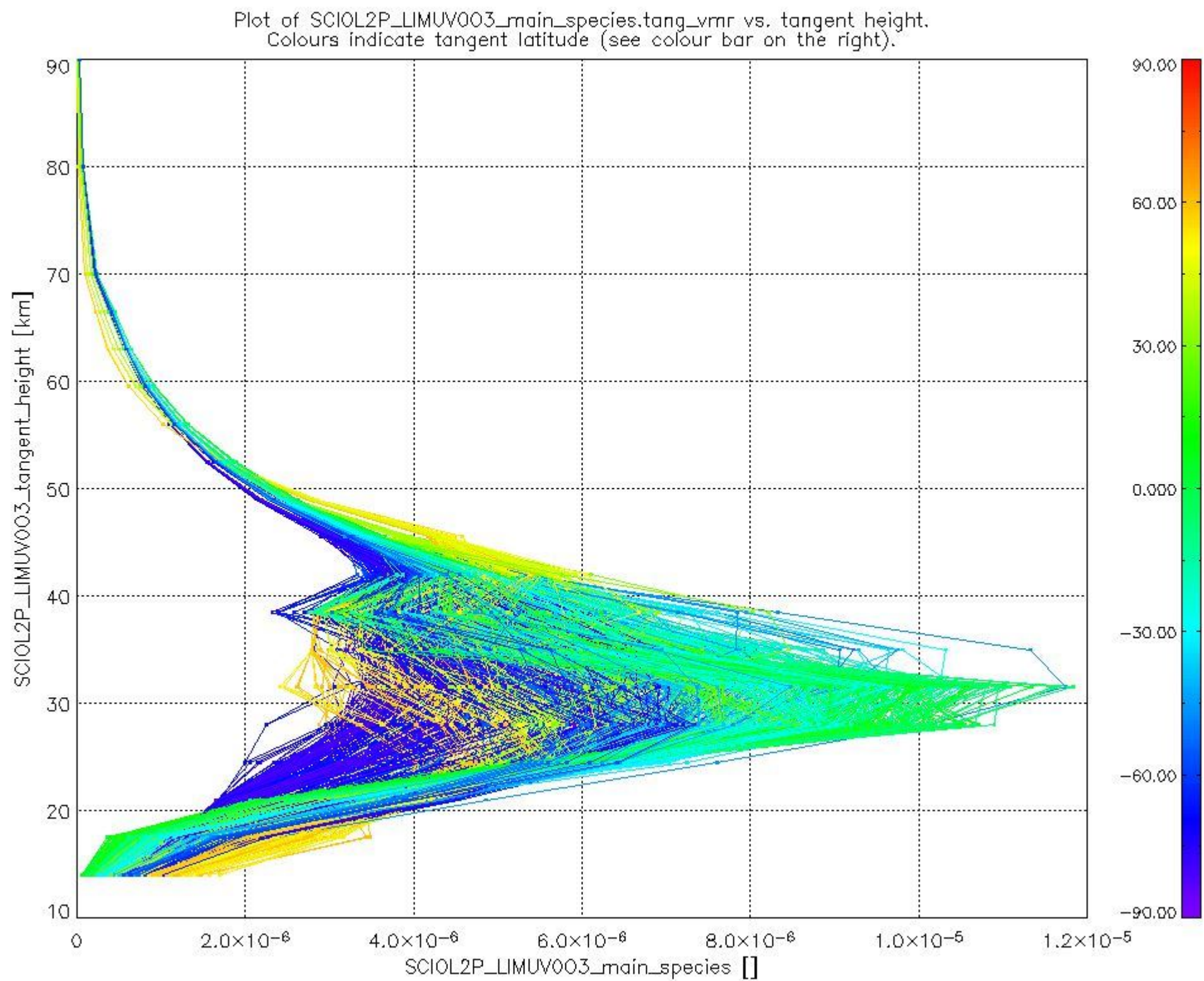
2.2.3 Limb

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

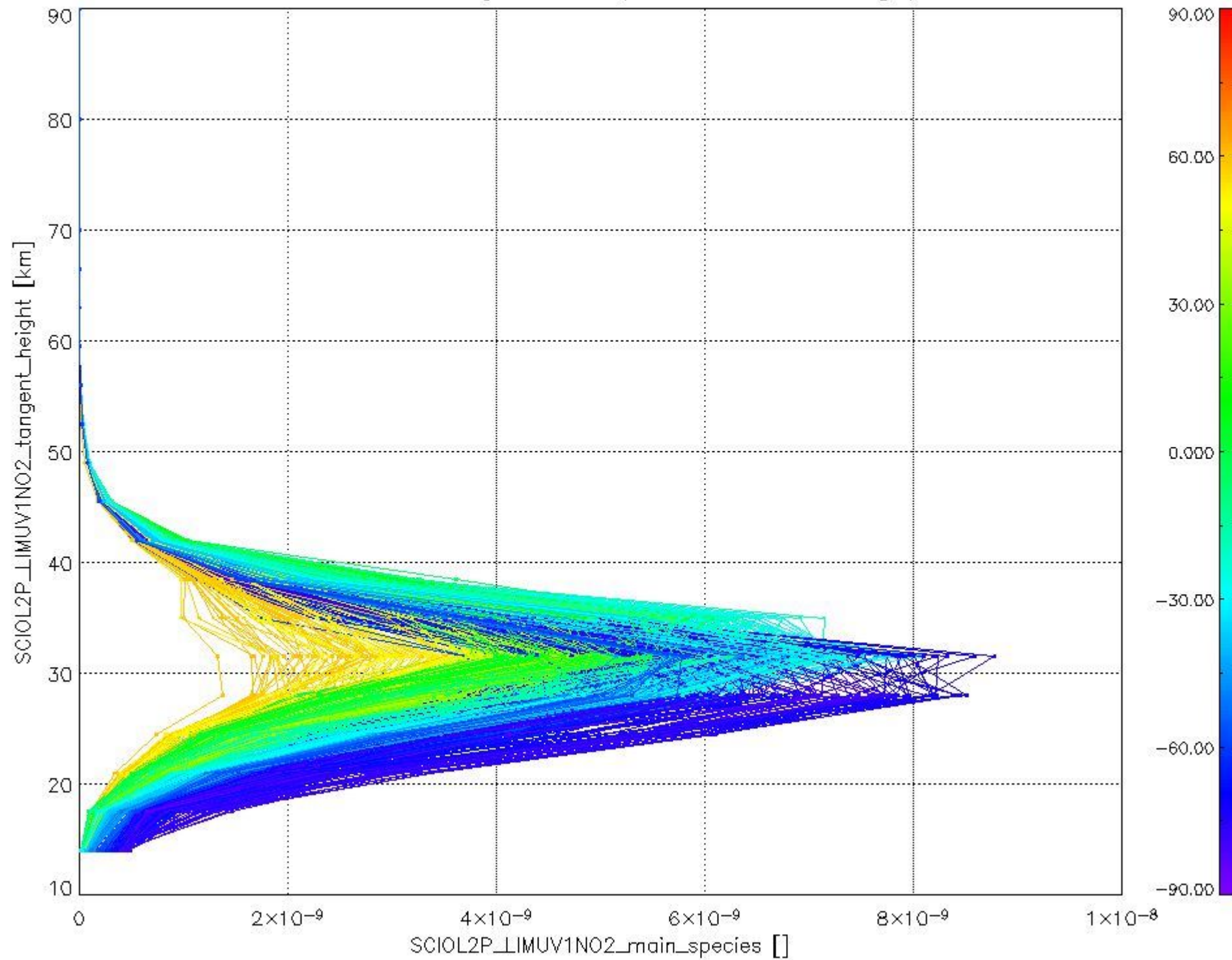
The following data items are currently included into this section:

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.



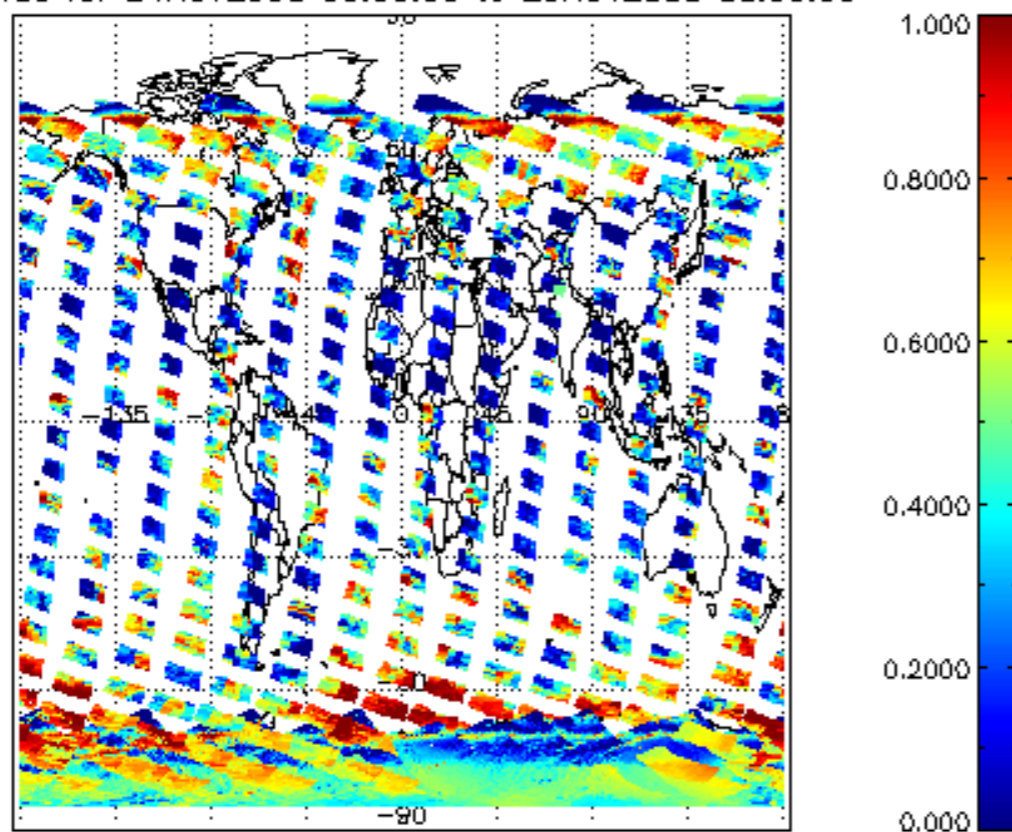
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



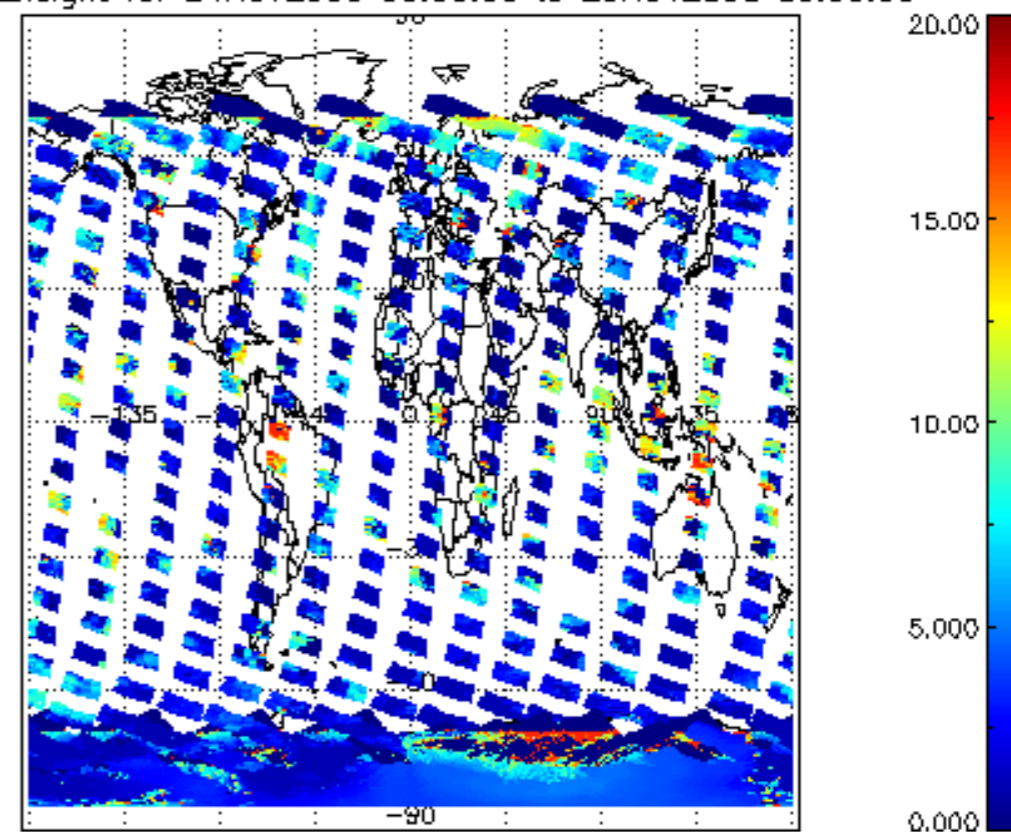
2.3 ADF monitoring

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

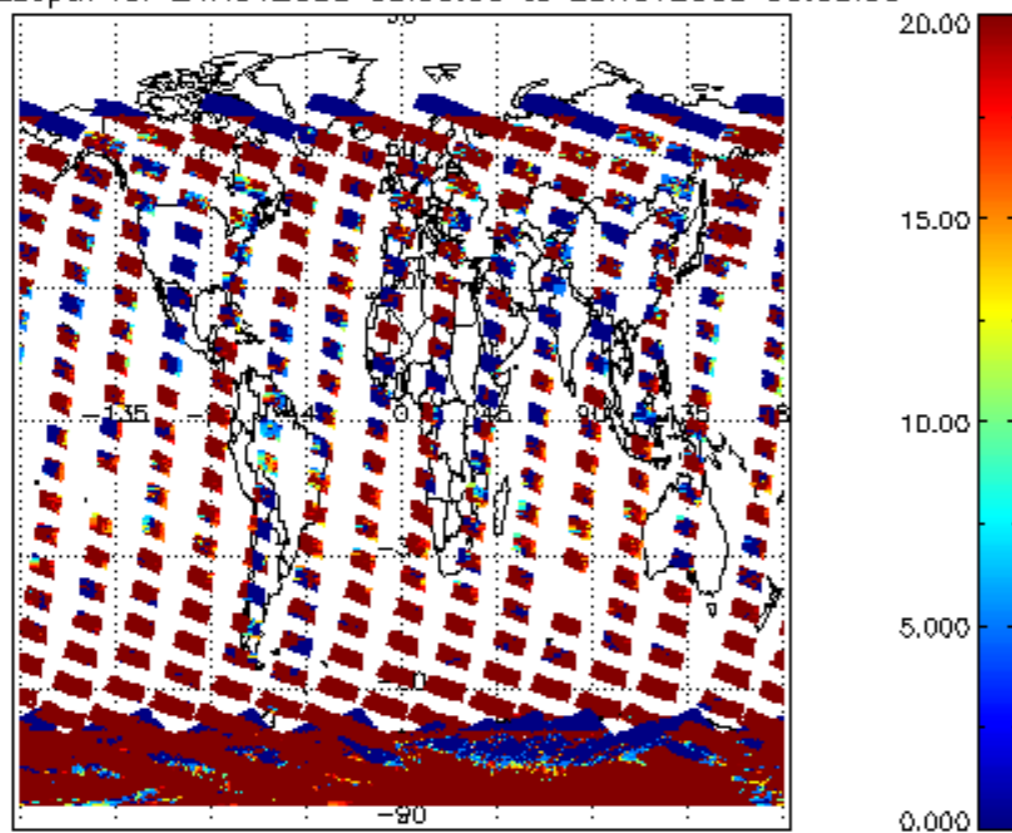
cLfrac for 24NOV2008 00:00:00 to 25NOV2008 00:00:00



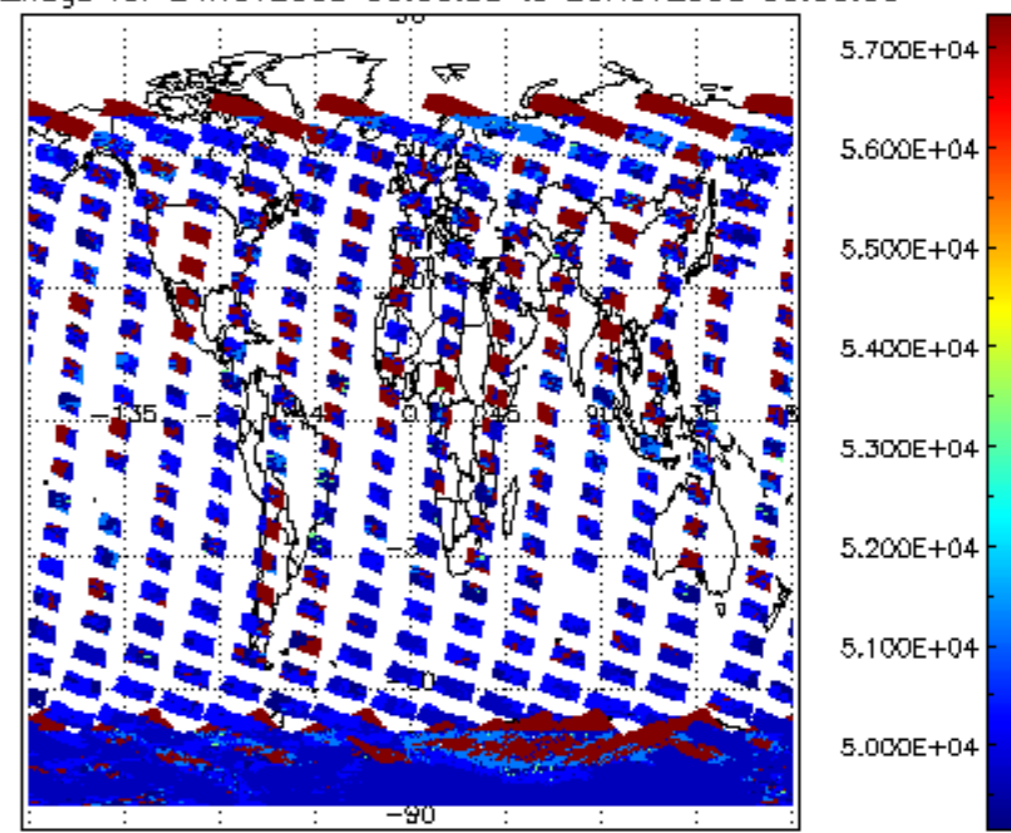
cL_top_height for 24NOV2008 00:00:00 to 25NOV2008 00:00:00

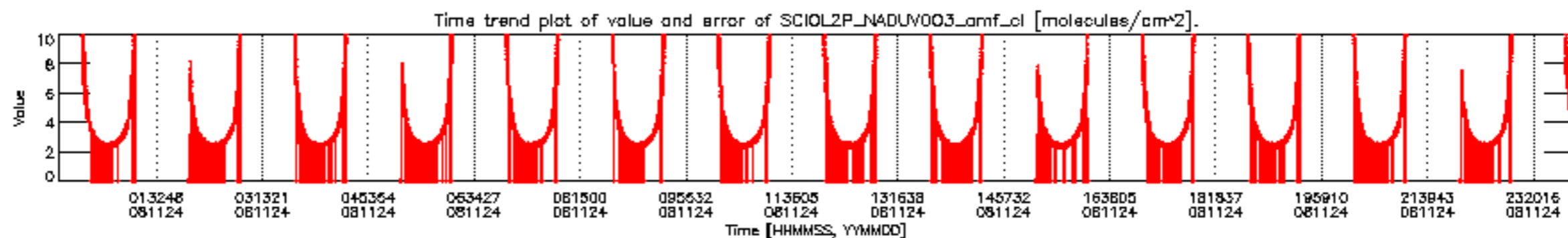
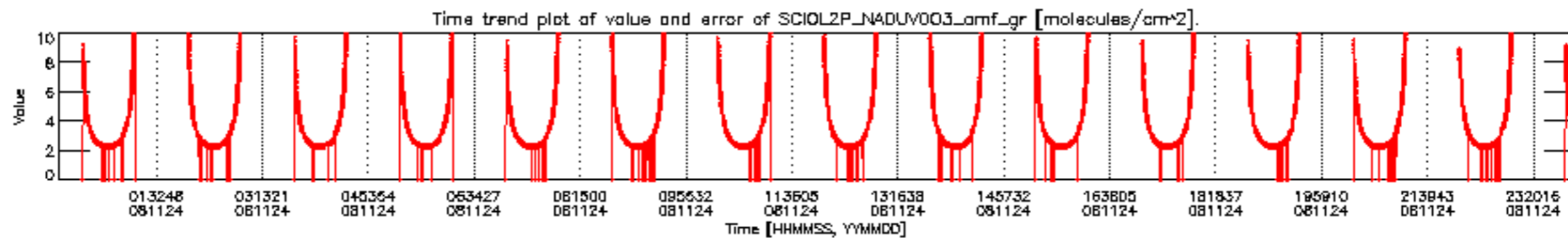
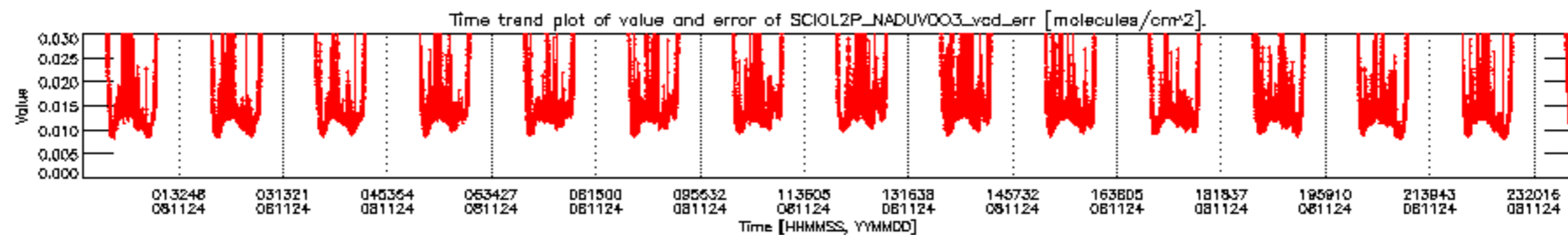
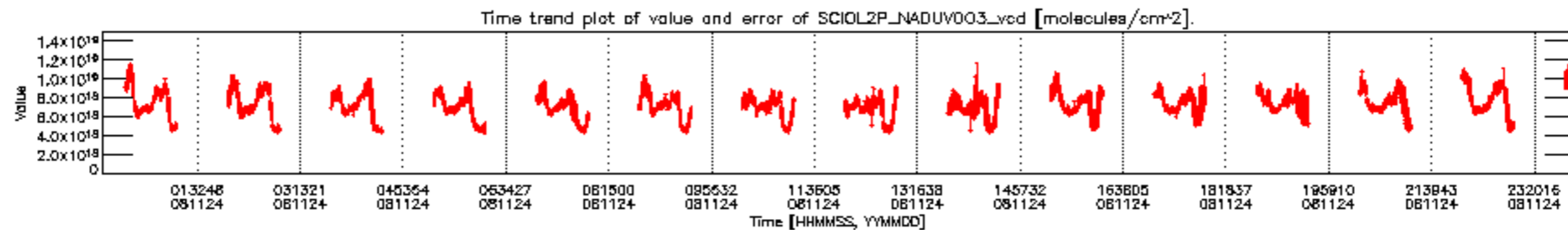


cL_opt_depth for 24NOV2008 00:00:00 to 25NOV2008 00:00:00

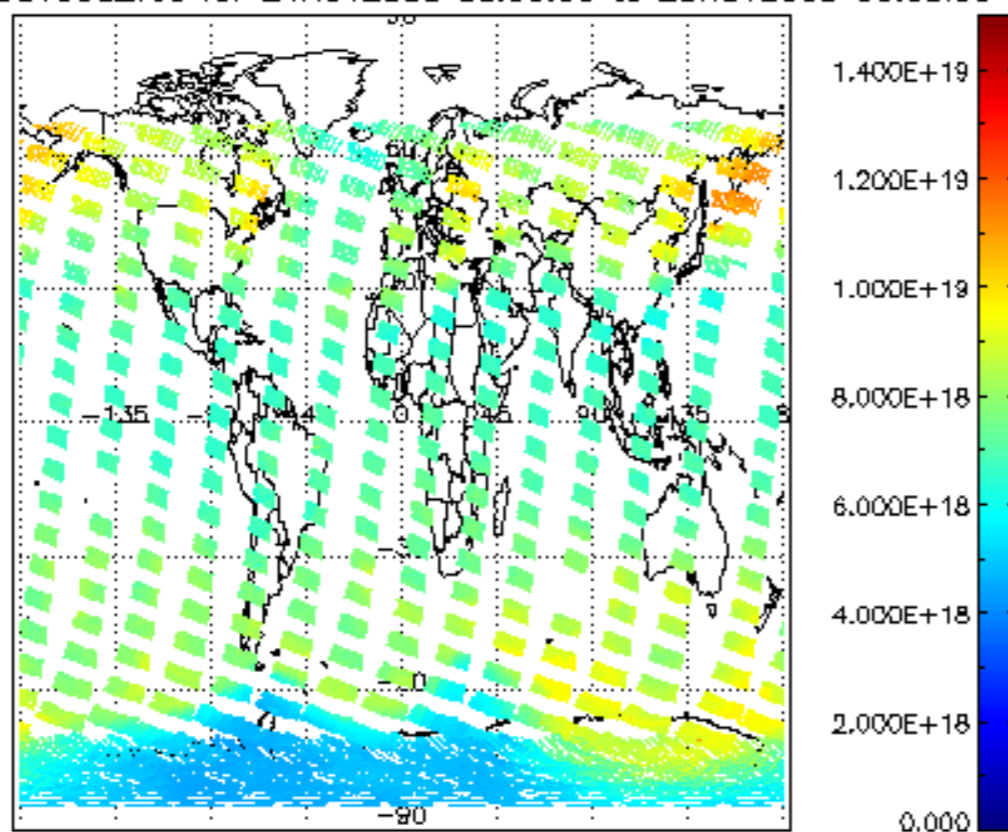


cloud_flags for 24NOV2008 00:00:00 to 25NOV2008 00:00:00

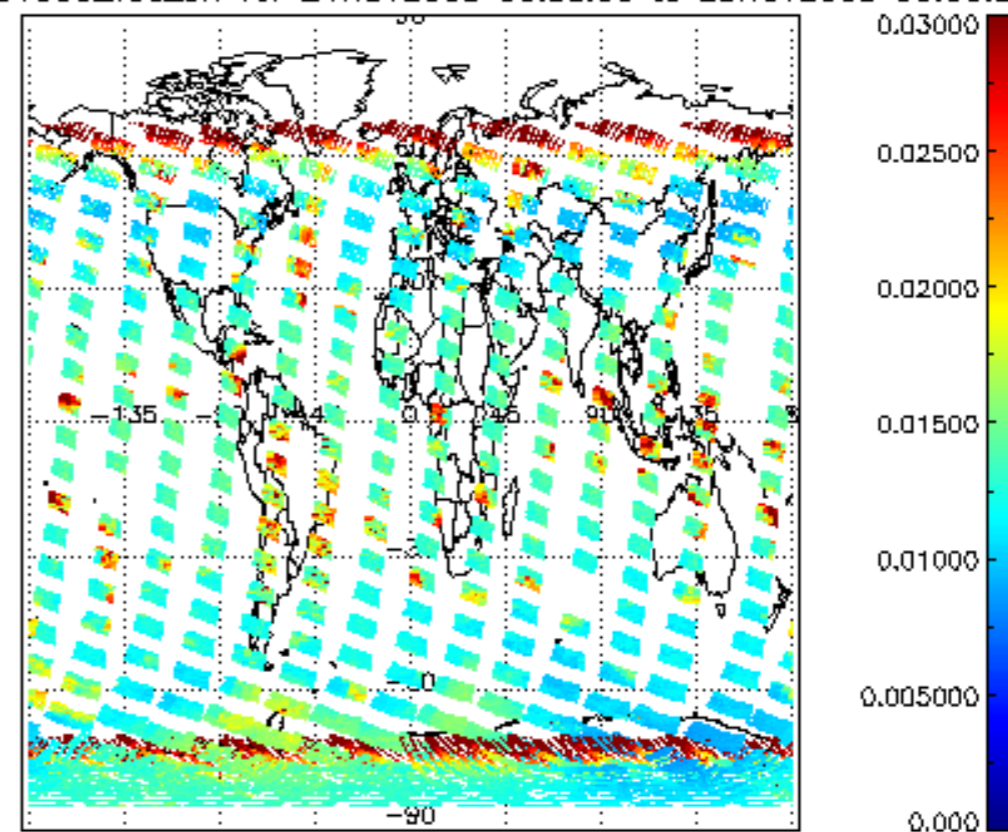




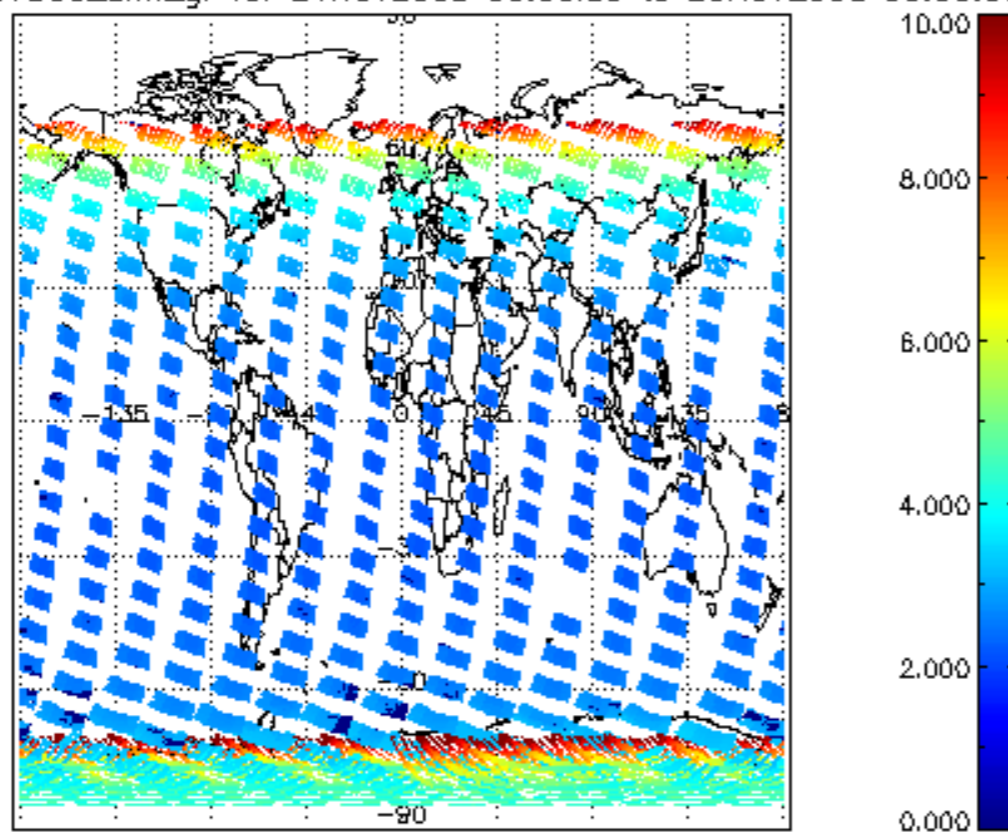
SCIOL2P_NADUV003_vcd for 24NOV2008 00:00:00 to 25NOV2008 00:00:00



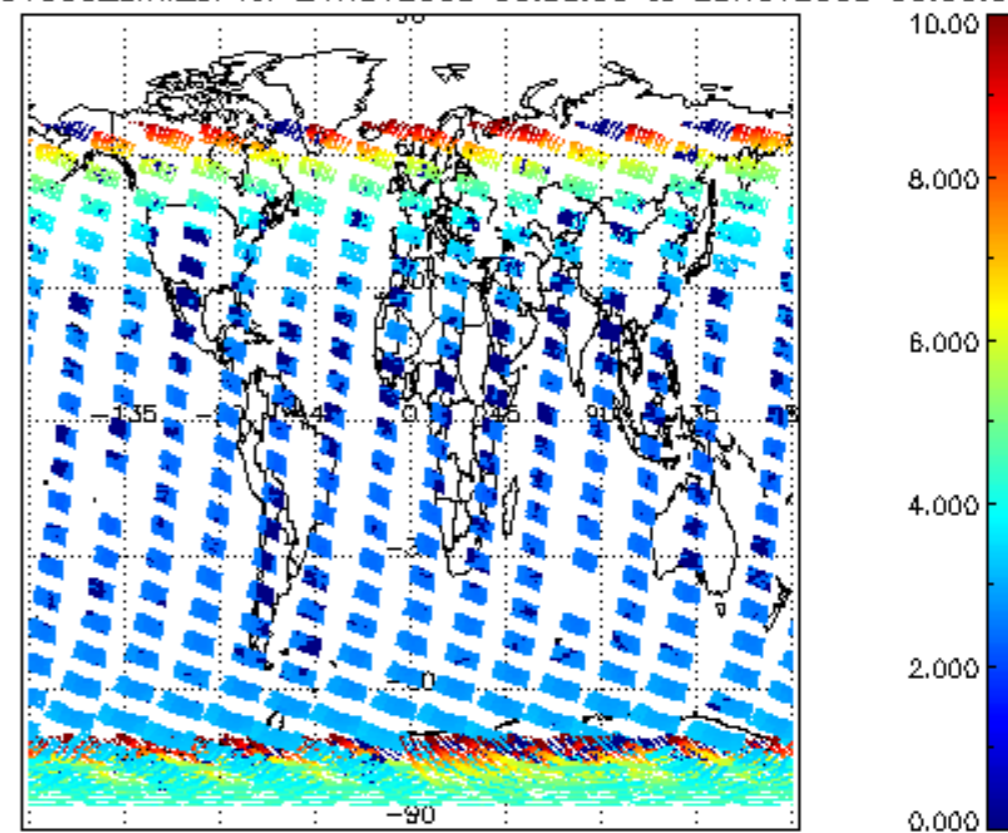
SCIOL2P_NADUV003_vcd_err for 24NOV2008 00:00:00 to 25NOV2008 00:00:00

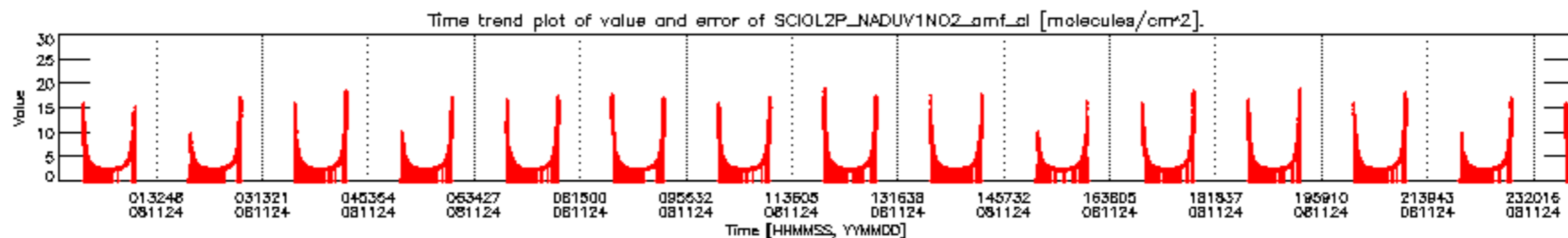
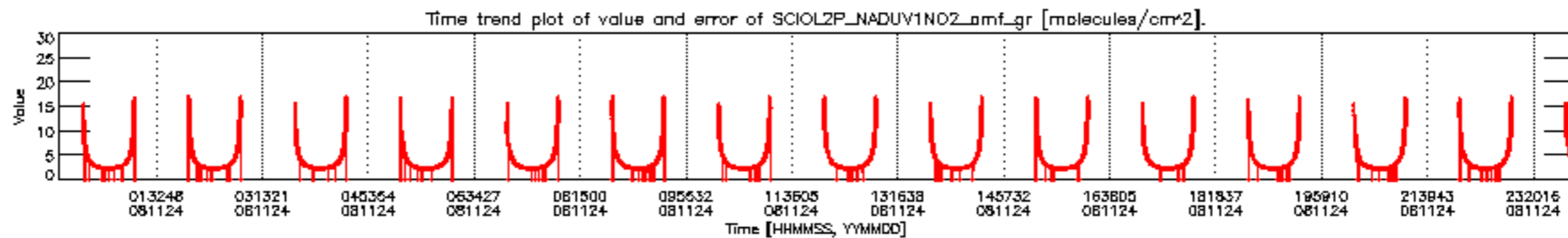
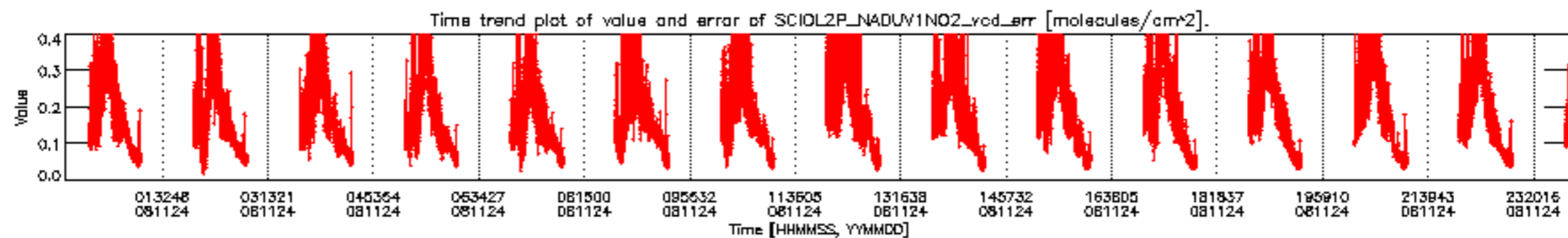
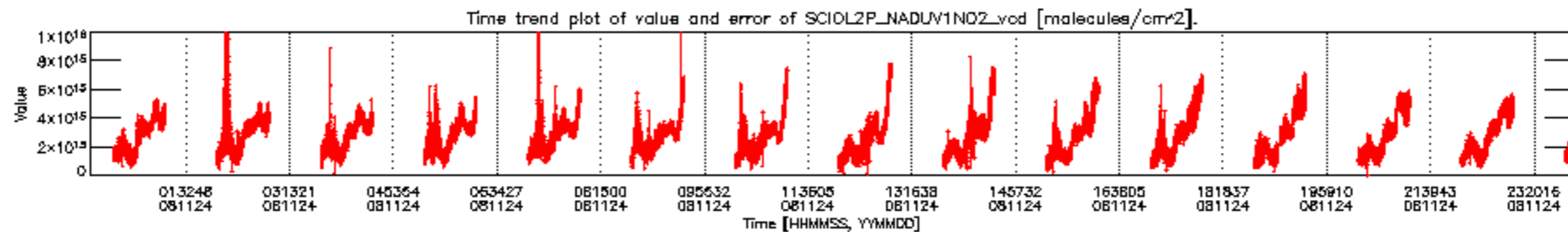


SCIOL2P_NADUV003_amf_gr for 24NOV2008 00:00:00 to 25NOV2008 00:00:00

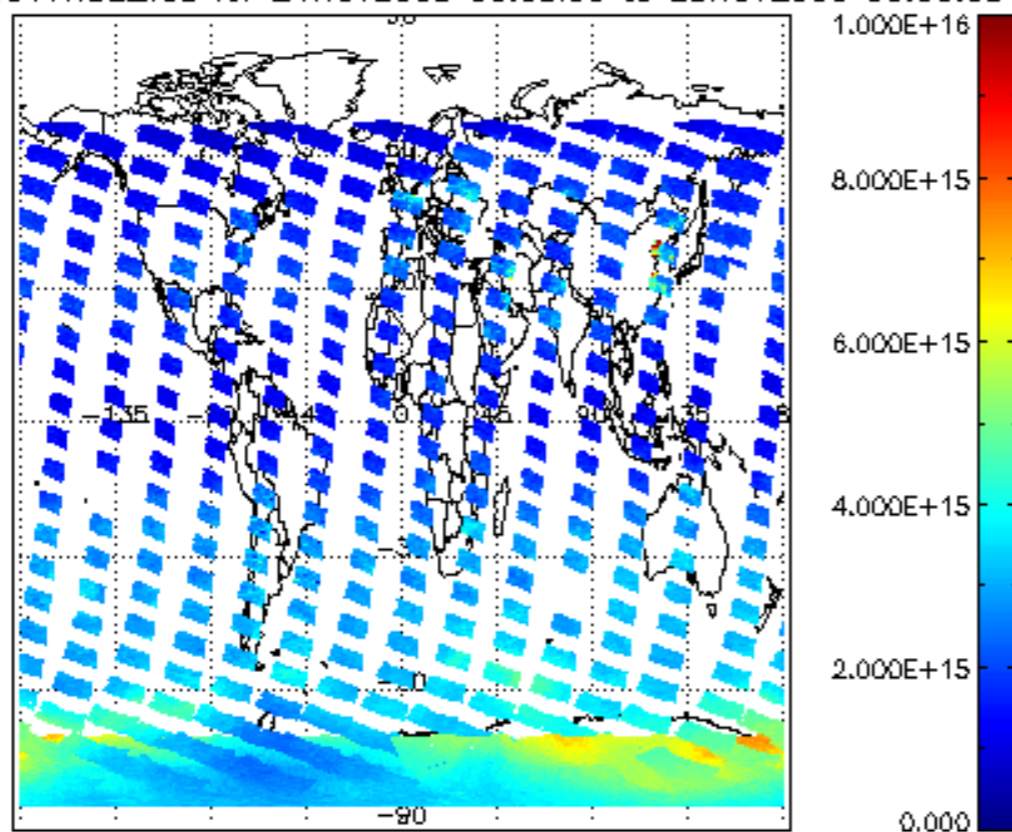


SCIOL2P_NADUV003_amf_cl for 24NOV2008 00:00:00 to 25NOV2008 00:00:00

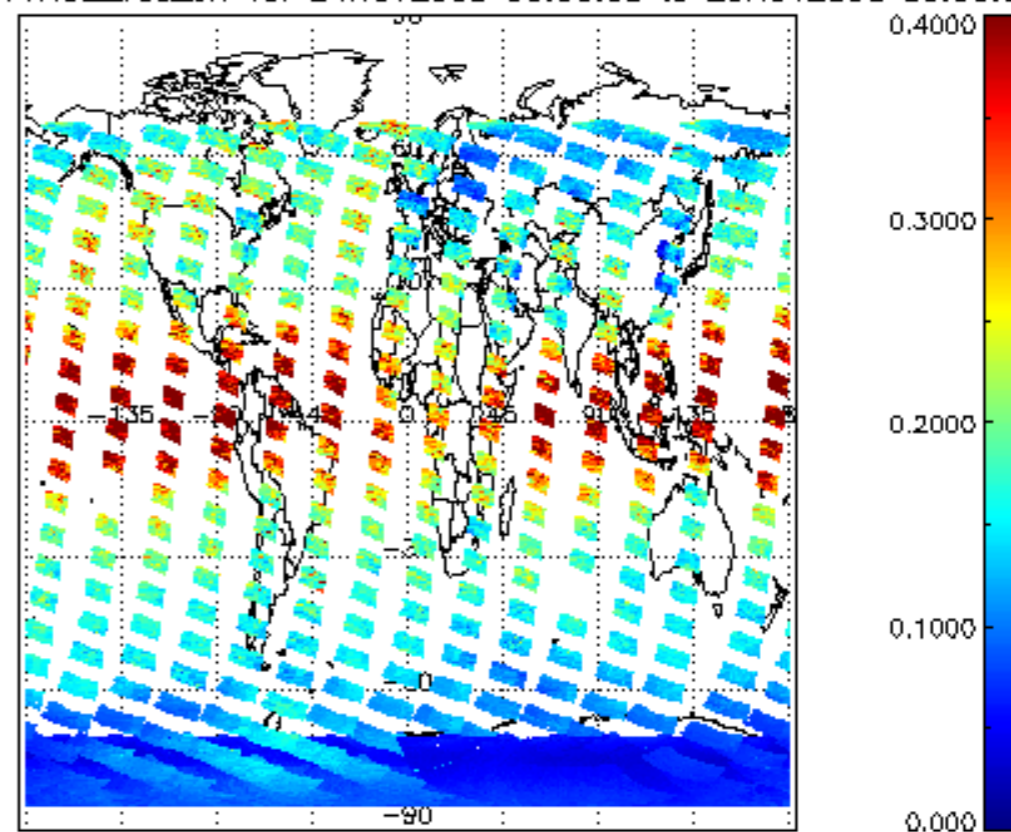




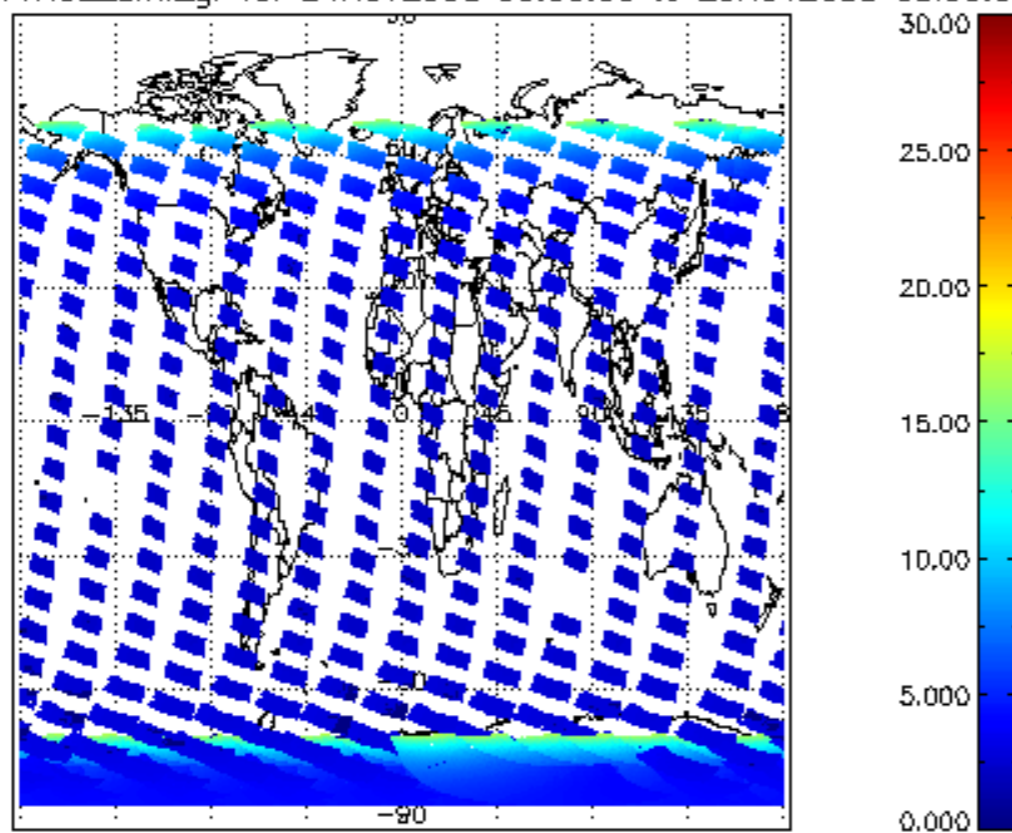
SCIOL2P_NADUV1NO2_vcd for 24NOV2008 00:00:00 to 25NOV2008 00:00:00



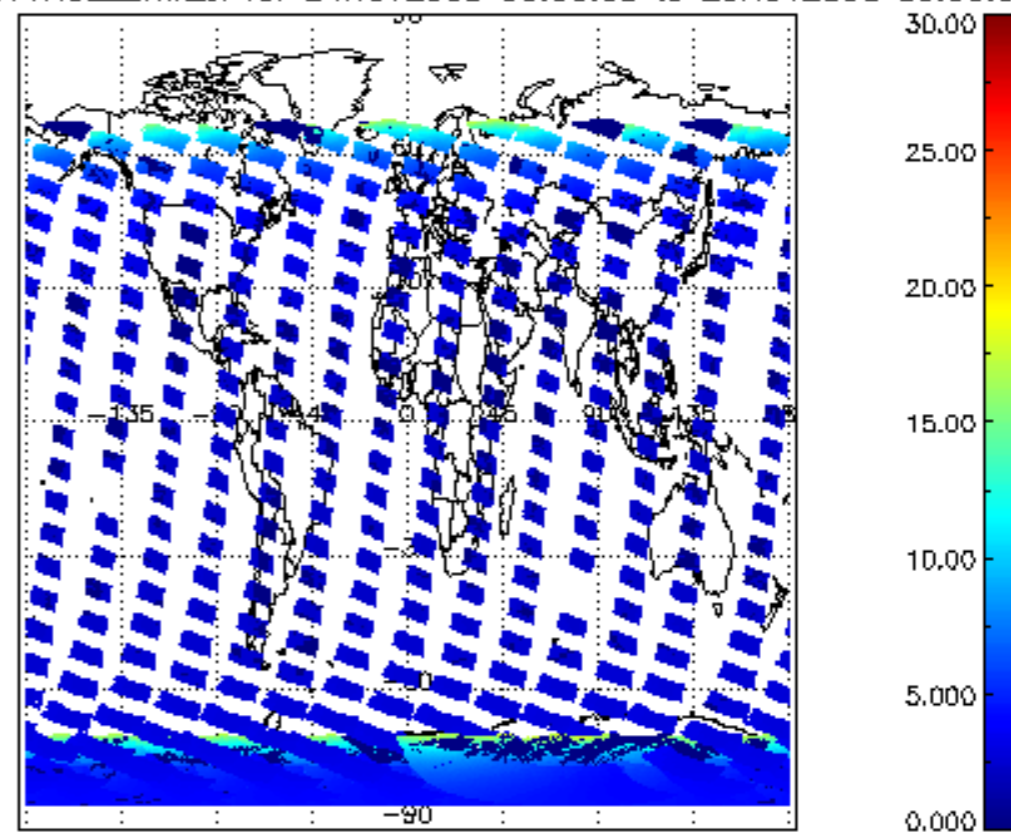
SCIOL2P_NADUV1NO2_vcd_err for 24NOV2008 00:00:00 to 25NOV2008 00:00:00



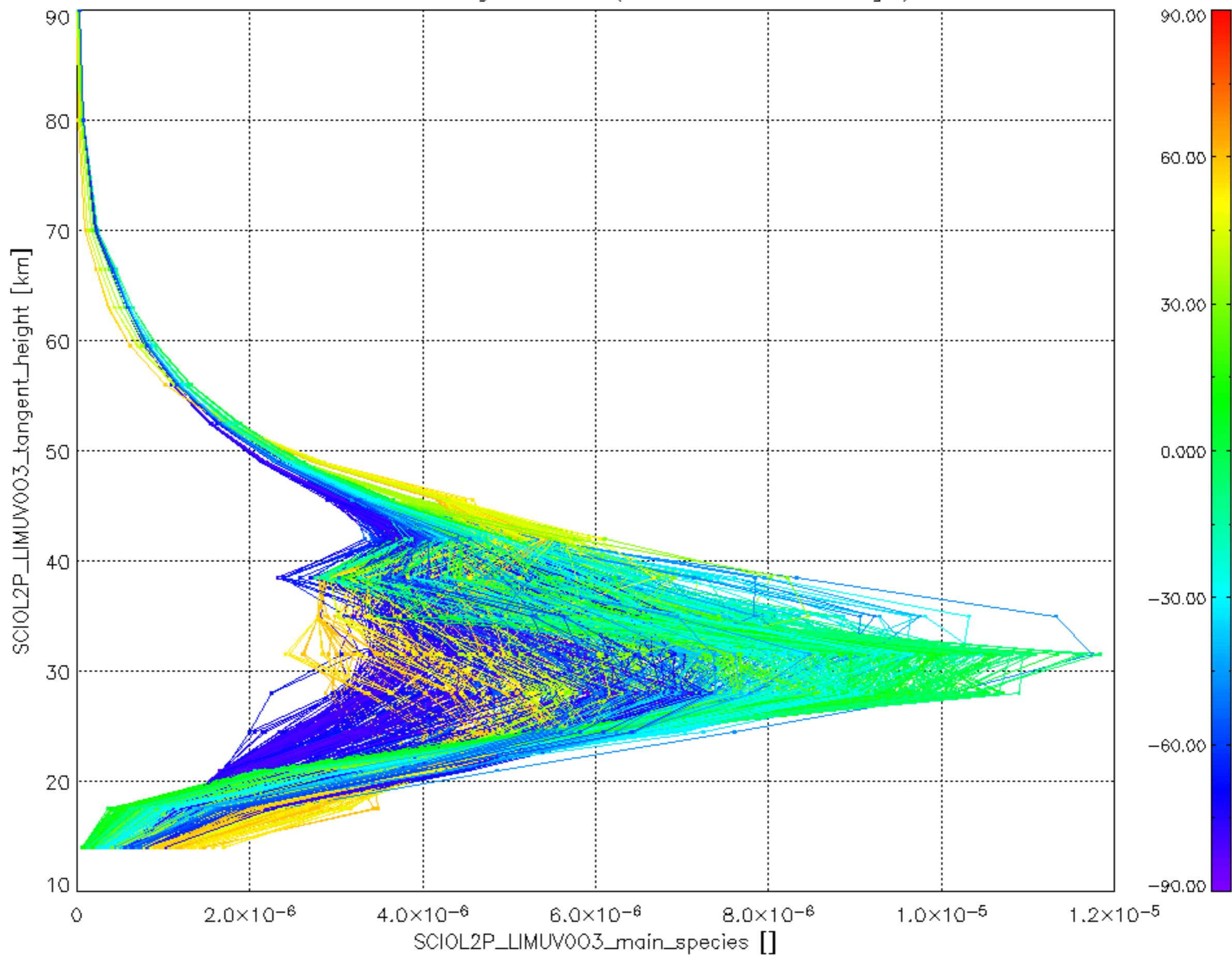
SCIOL2P_NADUV1NO2_amf_gr for 24NOV2008 00:00:00 to 25NOV2008 00:00:00



SCIOL2P_NADUV1NO2_amf_cl for 24NOV2008 00:00:00 to 25NOV2008 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).

