

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	16DEC2008 06:03:03
Data source version	SCIA-OL/3.01-R
Processing scope for products	28NOV2008 00:00:00 to 29NOV2008 00:00:00
Start time of first product within scope	27NOV2008 23:51:17
Stop time of last product within scope	29NOV2008 00:15:09
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__2PRDPA20081127_235117_000033252074_00145_35269_4803.N1	27NOV2008 23:51:17	28NOV2008 00:46:43	0	GOOD
1	SCI_OL__2PRDPA20081128_013153_000033812074_00146_35270_4804.N1	28NOV2008 01:31:53	28NOV2008 02:28:15	0	GOOD
2	SCI_OL__2PRDPA20081128_031229_000033252074_00147_35271_4805.N1	28NOV2008 03:12:29	28NOV2008 04:07:55	0	GOOD
3	SCI_OL__2PRDPA20081128_045305_000033812074_00148_35272_4828.N1	28NOV2008 04:53:05	28NOV2008 05:49:27	0	GOOD
4	SCI_OL__2PRDPA20081128_063342_000033252074_00149_35273_4829.N1	28NOV2008 06:33:42	28NOV2008 07:29:07	0	GOOD
5	SCI_OL__2PRDPA20081128_081418_000033812074_00150_35274_4830.N1	28NOV2008 08:14:18	28NOV2008 09:10:39	0	GOOD
6	SCI_OL__2PRDPA20081128_095454_000033252074_00151_35275_4831.N1	28NOV2008 09:54:54	28NOV2008 10:50:19	0	GOOD
7	SCI_OL__2PRDPA20081128_113530_000033812074_00152_35276_4832.N1	28NOV2008 11:35:30	28NOV2008 12:31:51	0	GOOD
8	SCI_OL__2PRDPA20081128_131606_000033252074_00153_35277_4833.N1	28NOV2008 13:16:06	28NOV2008 14:11:32	0	GOOD
9	SCI_OL__2PRDPA20081128_145642_000033812074_00154_35278_4837.N1	28NOV2008 14:56:42	28NOV2008 15:53:04	0	GOOD
10	SCI_OL__2PRDPA20081128_163718_000033252074_00155_35279_4841.N1	28NOV2008 16:37:18	28NOV2008 17:32:44	0	GOOD
11	SCI_OL__2PRDPA20081128_181750_000033872074_00156_35280_4845.N1	28NOV2008 18:17:50	28NOV2008 19:14:17	0	GOOD
12	SCI_OL__2PRDPA20081128_195852_000033252074_00157_35281_4849.N1	28NOV2008 19:58:52	28NOV2008 20:54:18	0	GOOD
13	SCI_OL__2PRDPA20081128_213907_000033812074_00158_35282_4851.N1	28NOV2008 21:39:07	28NOV2008 22:35:28	0	GOOD
14	SCI_OL__2PRDPA20081128_231943_000033252074_00159_35283_4854.N1	28NOV2008 23:19:43	29NOV2008 00:15:09	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: 151320

Total number of cloud data DSRs with good quality flag (=0): 151320 (100.0 %)

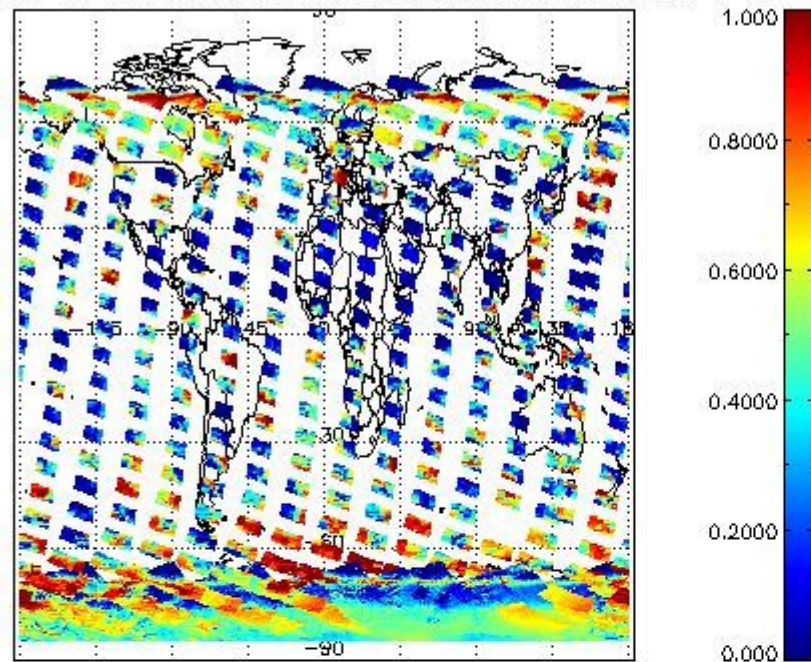
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	151320	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	151320	0.17096	0.12500	0.12500	0.25000	0.060273	s
CL_FRAC	151320	0.41481	0.42798	0.0000	1.0000	0.28609	-
CL_FRAC_ERR	151320	0.0000	0.0000	0.0000	0.0000	0.0000	rel. fraction
PMD_READ	151320	5.4708	4.0000	4.0000	8.0000	1.9287	-
PMD_READ_CL[0]	151320	0.26933	0.0000	0.0000	8.0000	1.1760	-
PMD_READ_CL[1]	151320	0.86524	0.0000	0.0000	8.0000	2.0271	-
CL_TOP_HEIGHT	131725	4.2737	3.4730	0.0000	17.000	3.7849	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	131725	55.821	47.481	0.0000	101.00	40.354	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	151320	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	151320	11001001	11000100	11000000	11100000	3161.7	flags
AERO_ABSO_IND	151320	3.0978	3.4622	-0.88929	13.783	2.1609	-
AERO_IND_DIAG	151320	0.0000	0.0000	0.0000	0.0000	0.0000	-
AERO_FLAGS	151320	01011000	00000000	00000000	11000000	24506.	flags

Time and geolocation plots:

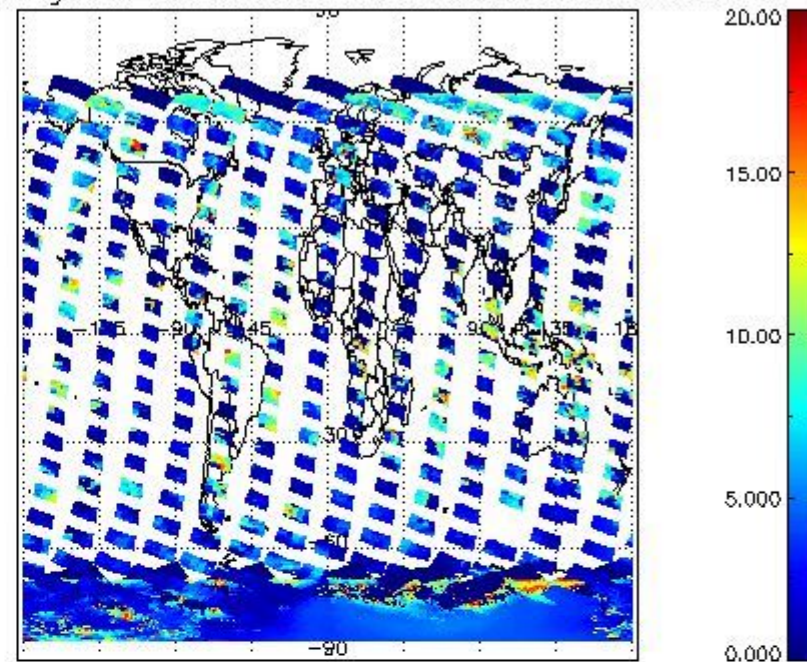
Plots are available for the following parameters:

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

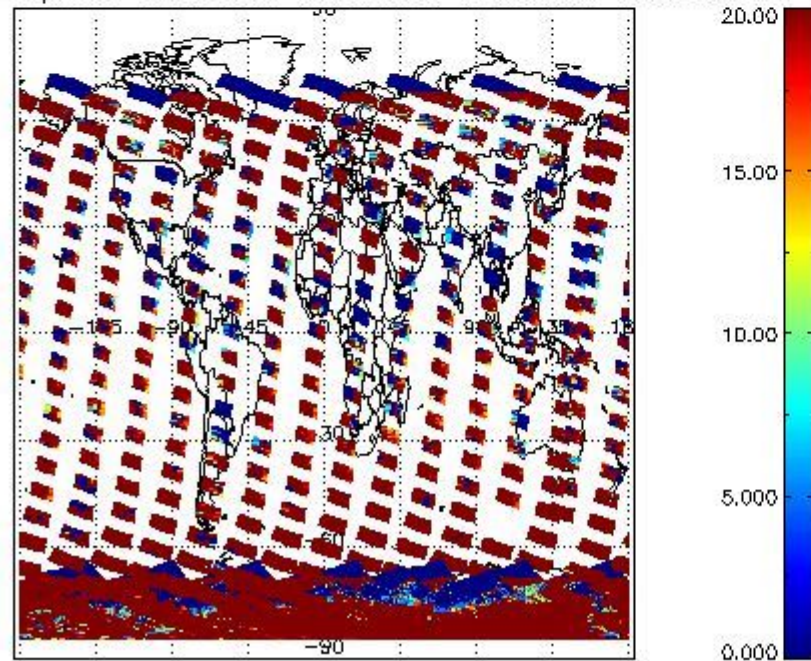
cLfrac for 28NOV2008 00:00:00 to 29NOV2008 00:00:00



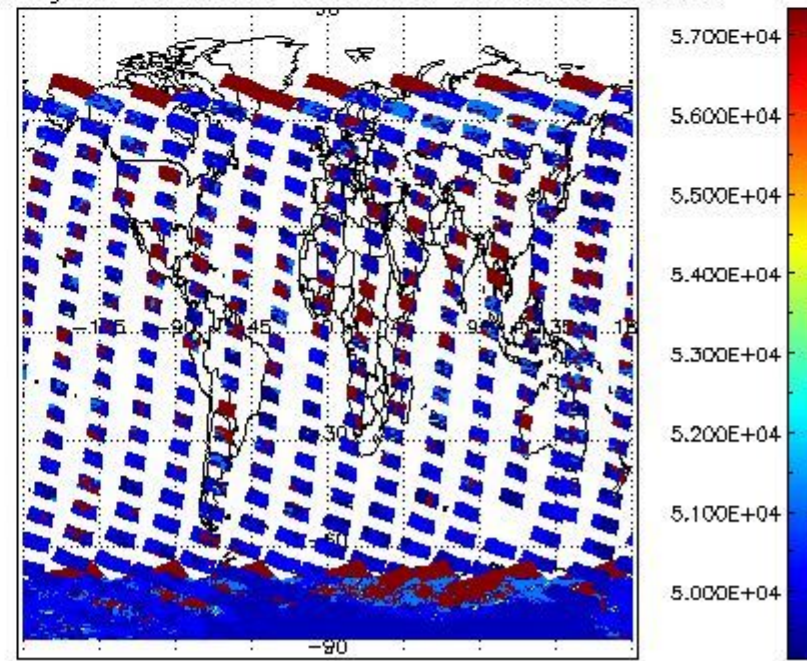
cL_top_height for 28NOV2008 00:00:00 to 29NOV2008 00:00:00



cLopt_depth for 28NOV2008 00:00:00 to 29NOV2008 00:00:00



cloud_flags for 28NOV2008 00:00:00 to 29NOV2008 00:00:00



2.2.2 Nadir

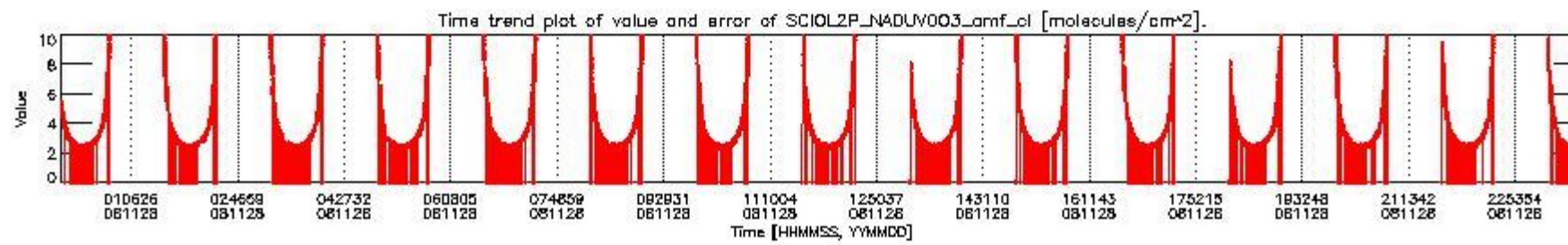
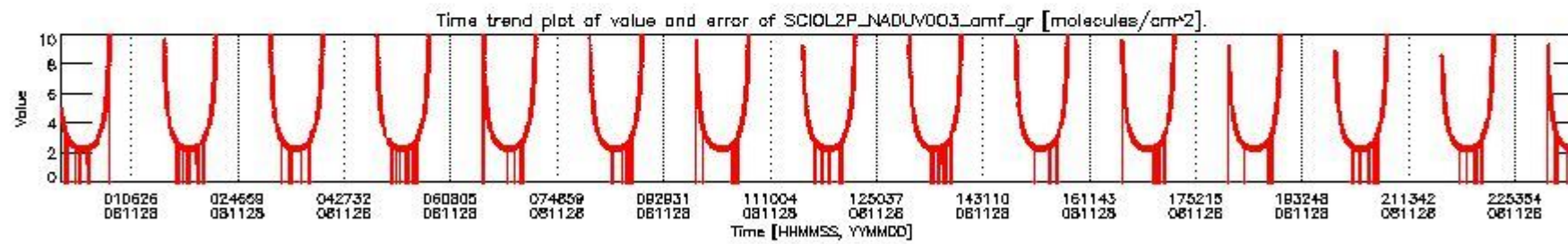
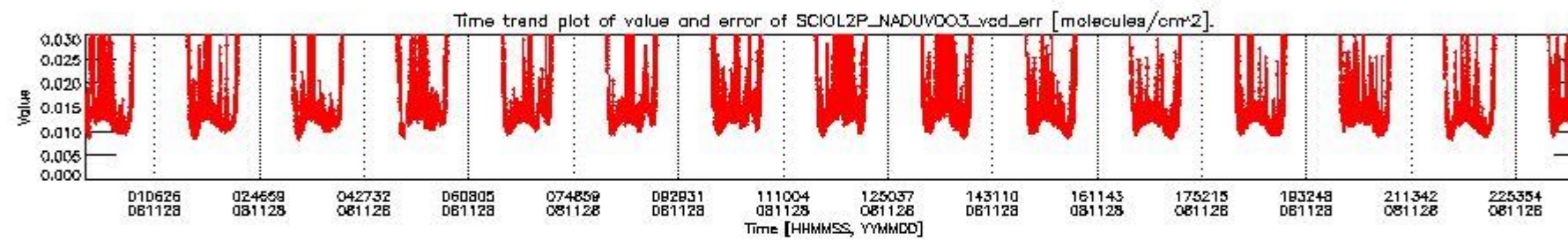
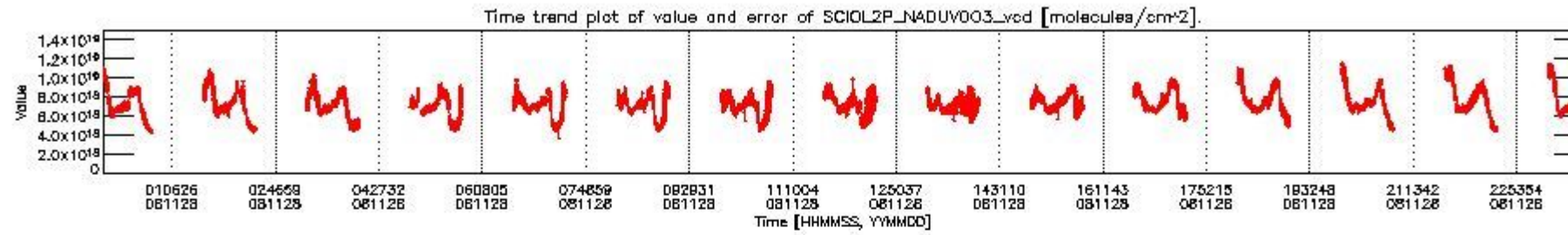
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

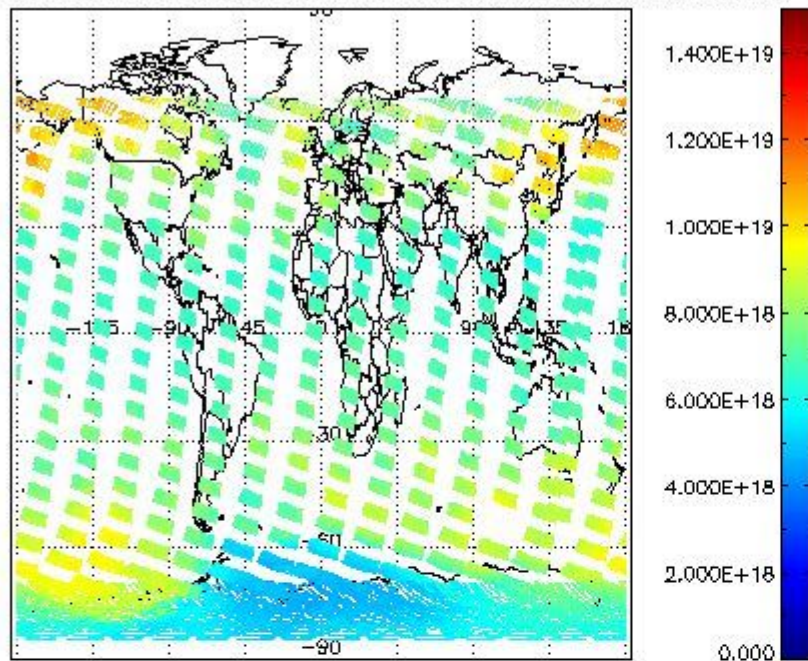
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

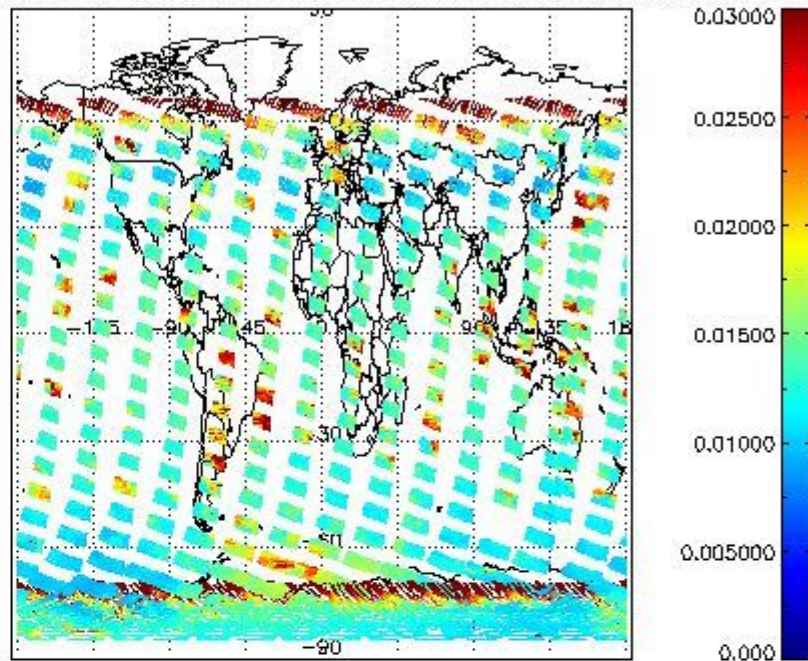
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



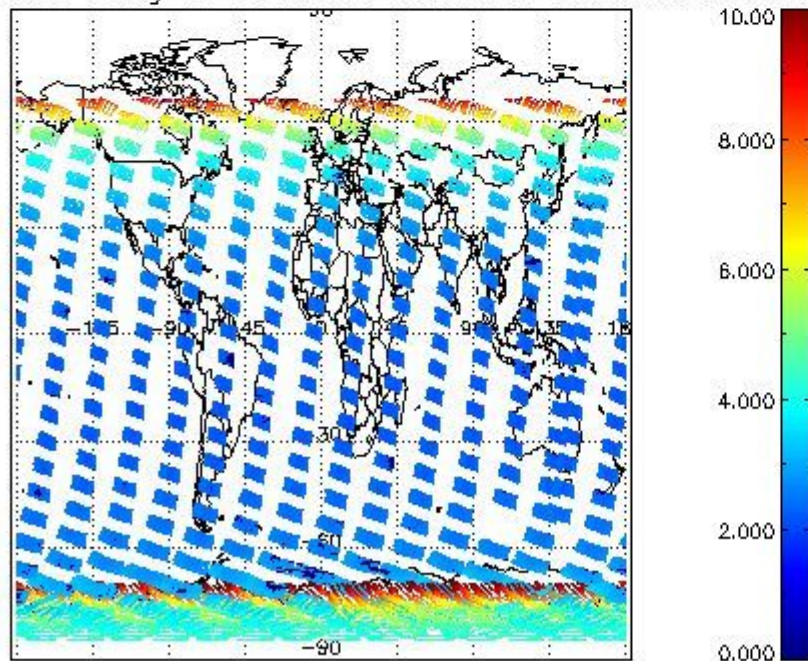
SCIOL2P_NADUV003_vcd for 28NOV2008 00:00:00 to 29NOV2008 00:00:00



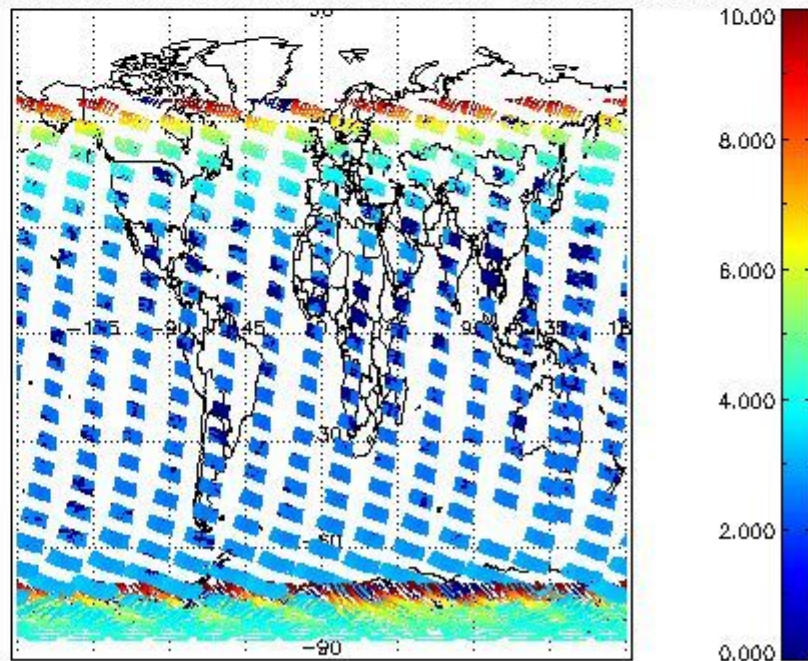
SCIOL2P_NADUV003_vcd_err for 28NOV2008 00:00:00 to 29NOV2008 00:00:00

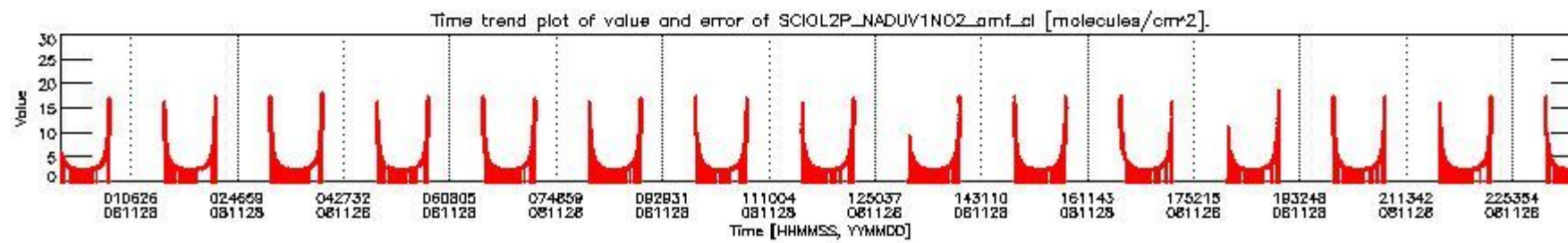
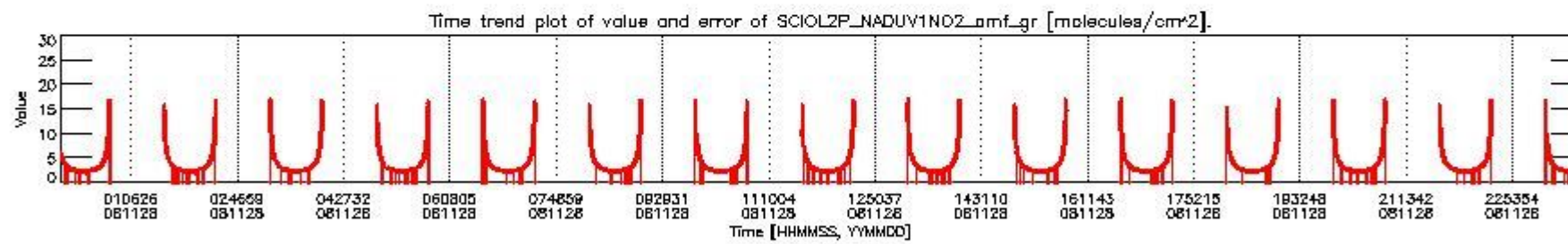
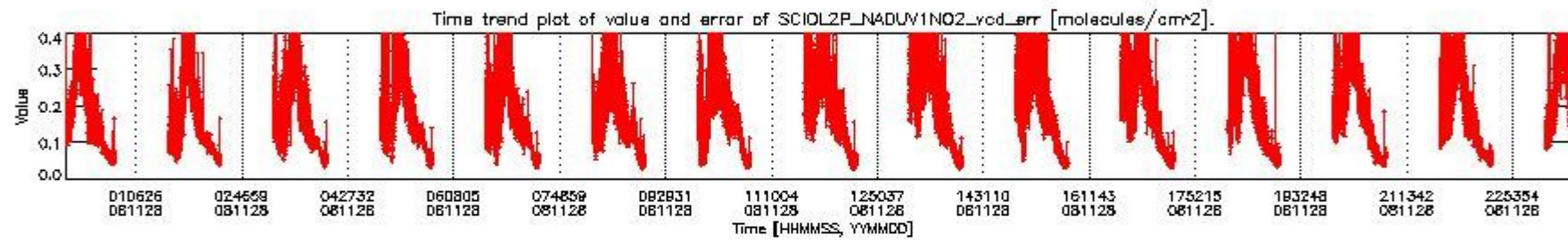
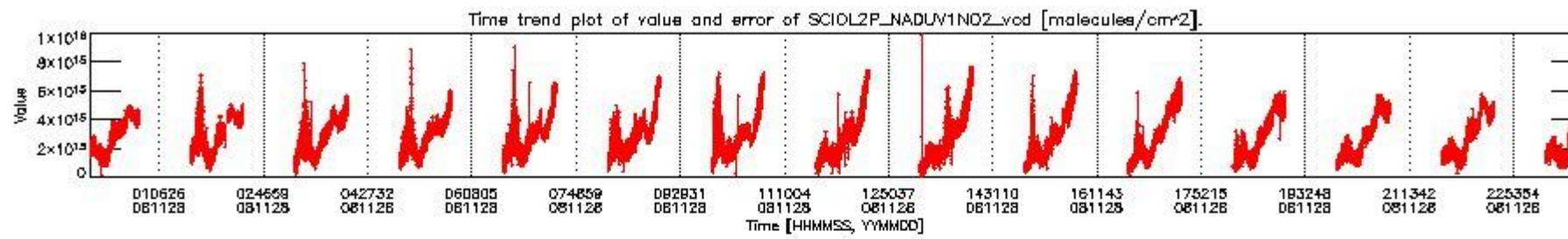


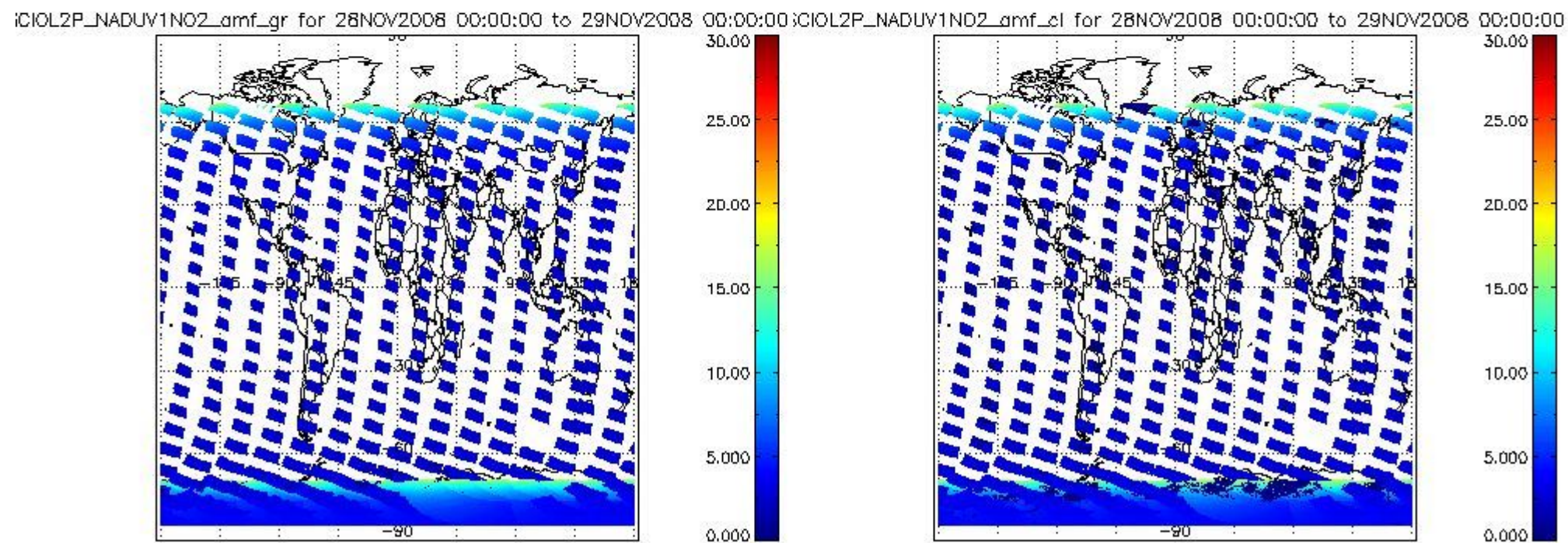
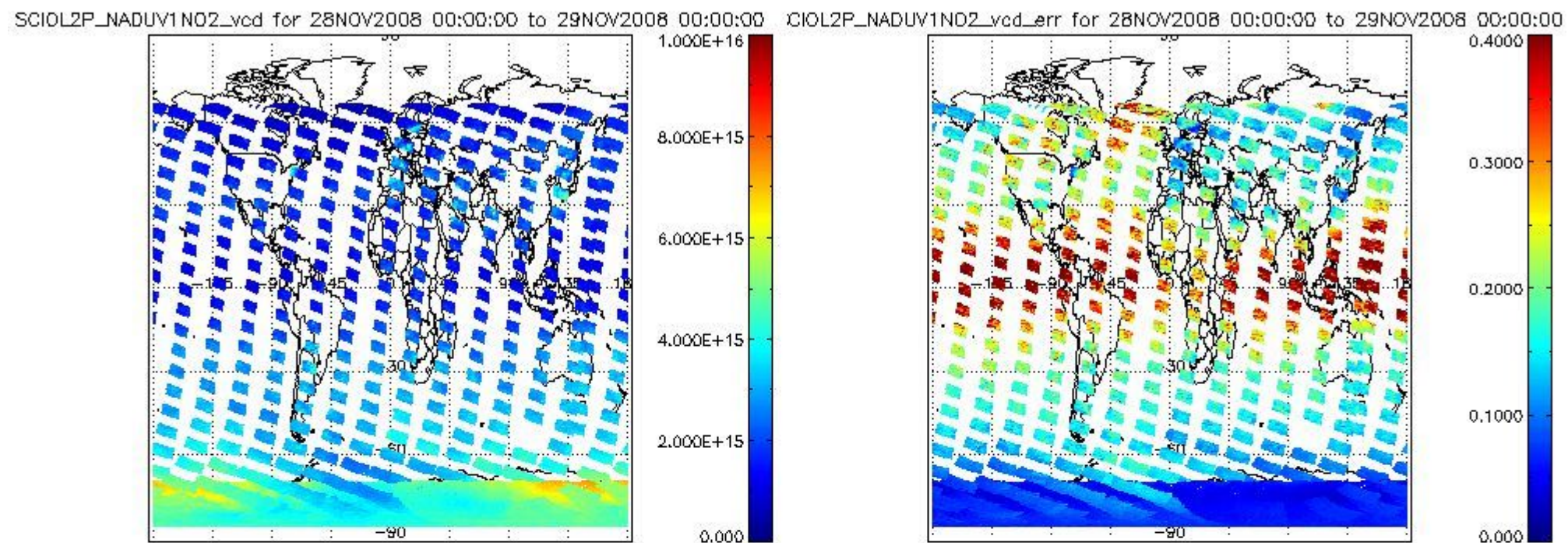
SCIOL2P_NADUV003_amf_gr for 28NOV2008 00:00:00 to 29NOV2008 00:00:00



SCIOL2P_NADUV003_amf_cl for 28NOV2008 00:00:00 to 29NOV2008 00:00:00







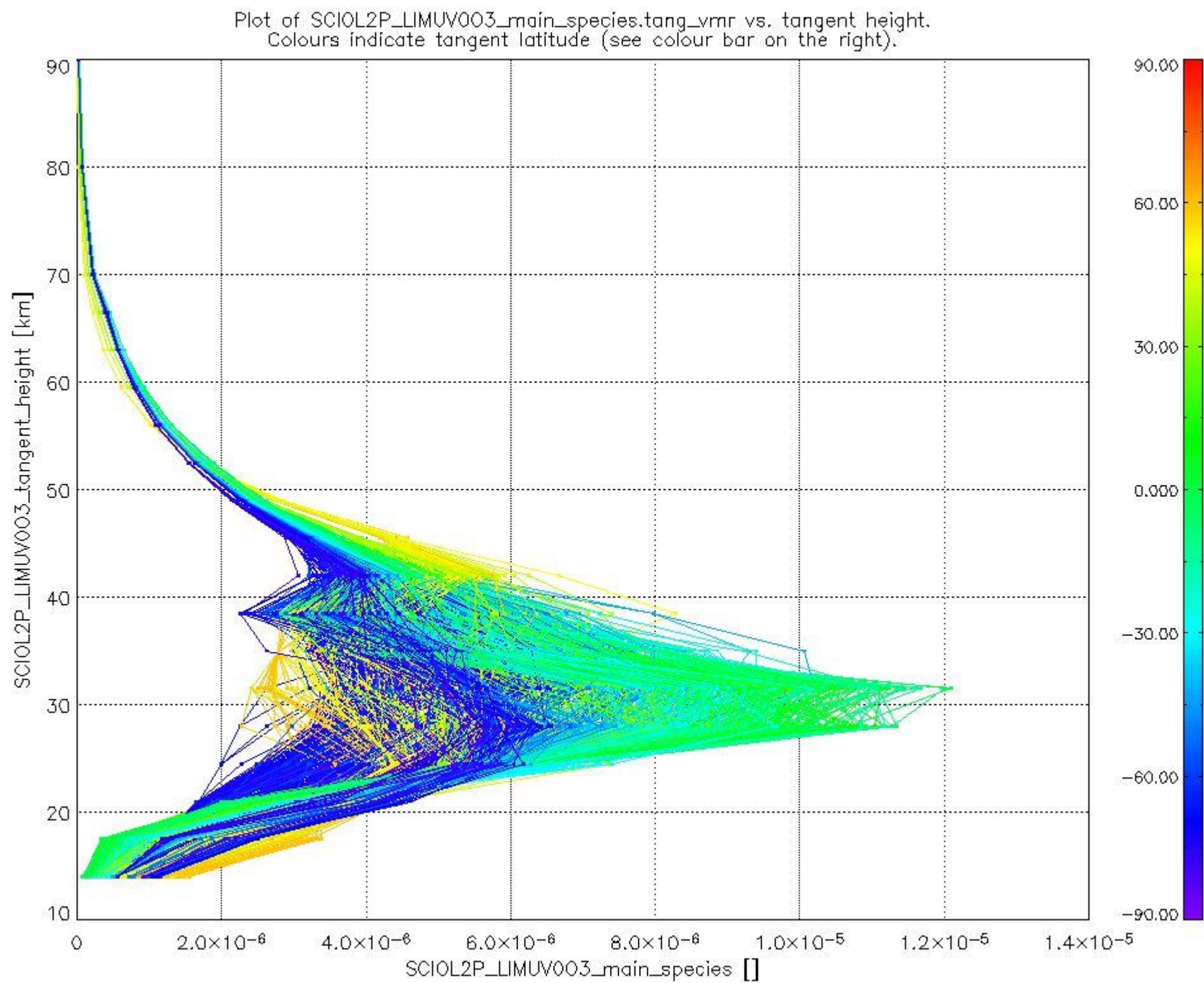
2.2.3 Limb

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

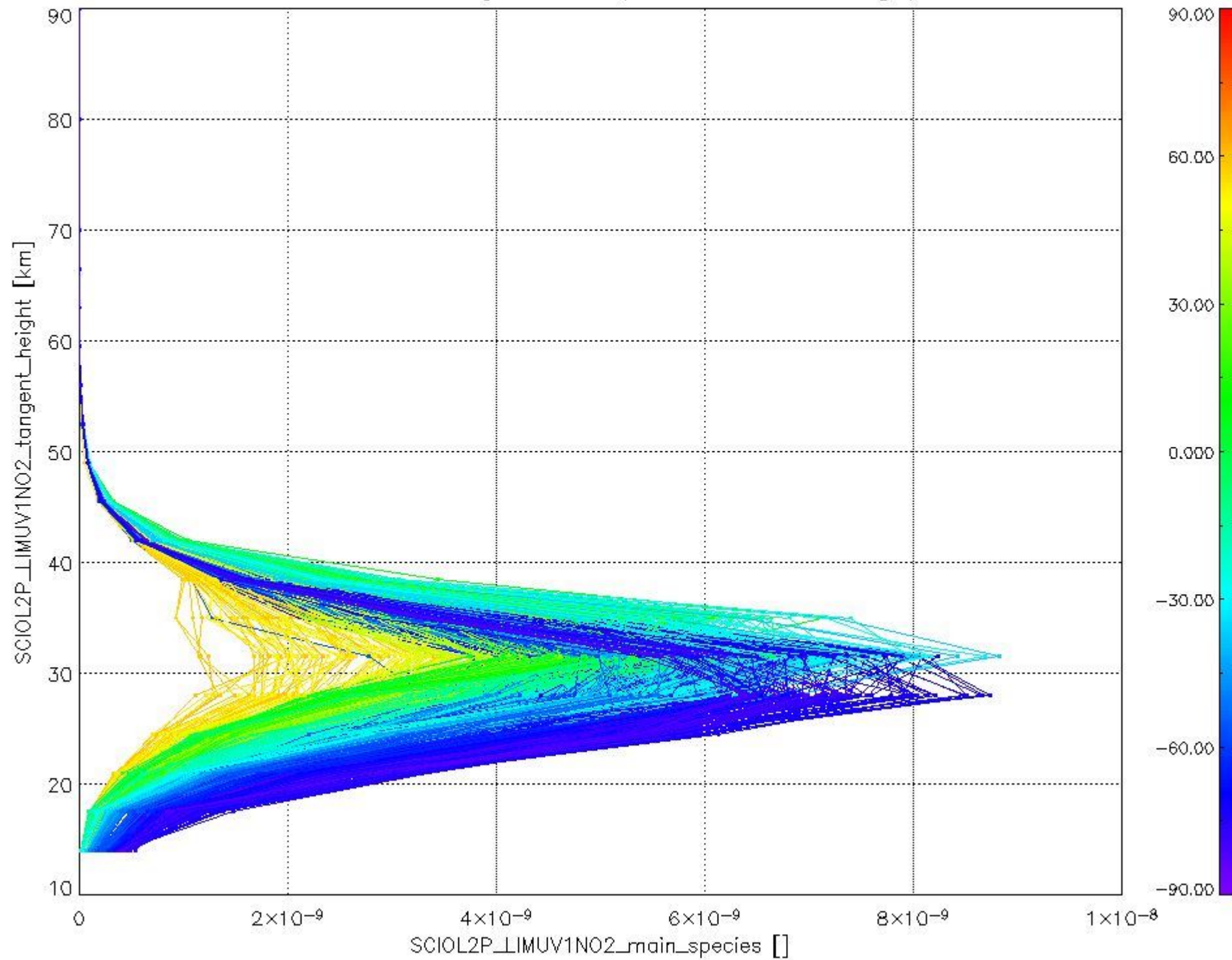
The following data items are currently included into this section:

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.



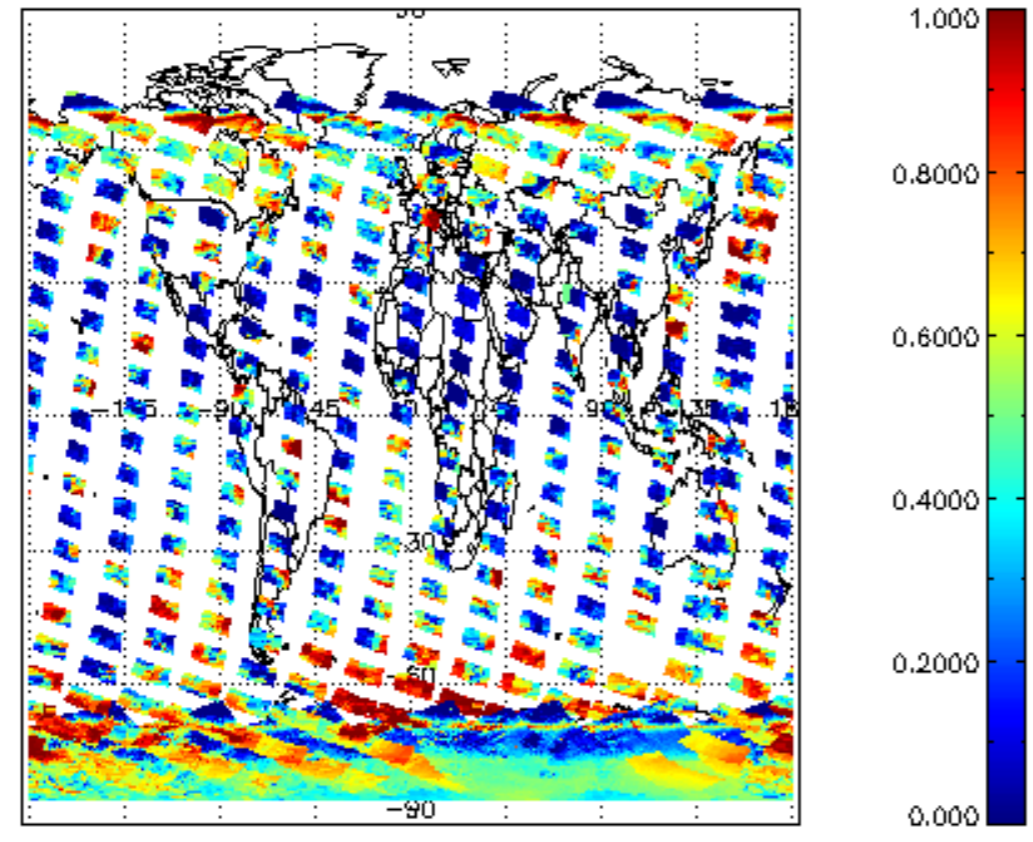
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



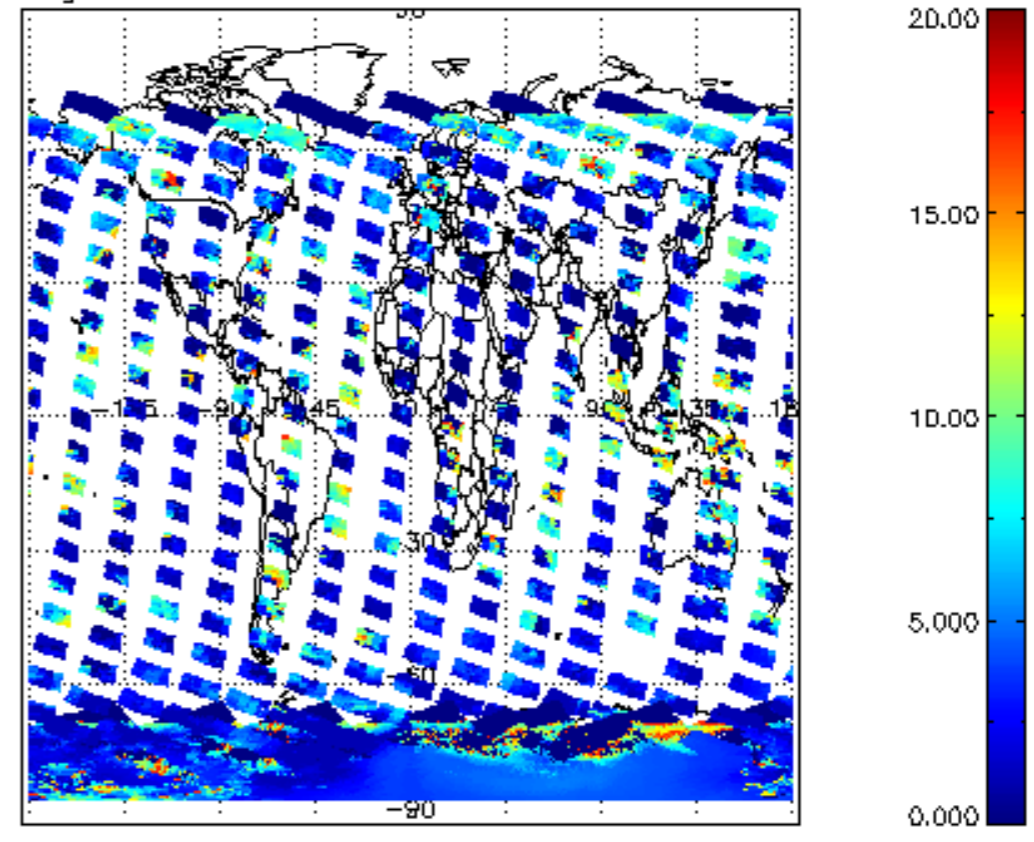
2.3 ADF monitoring

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

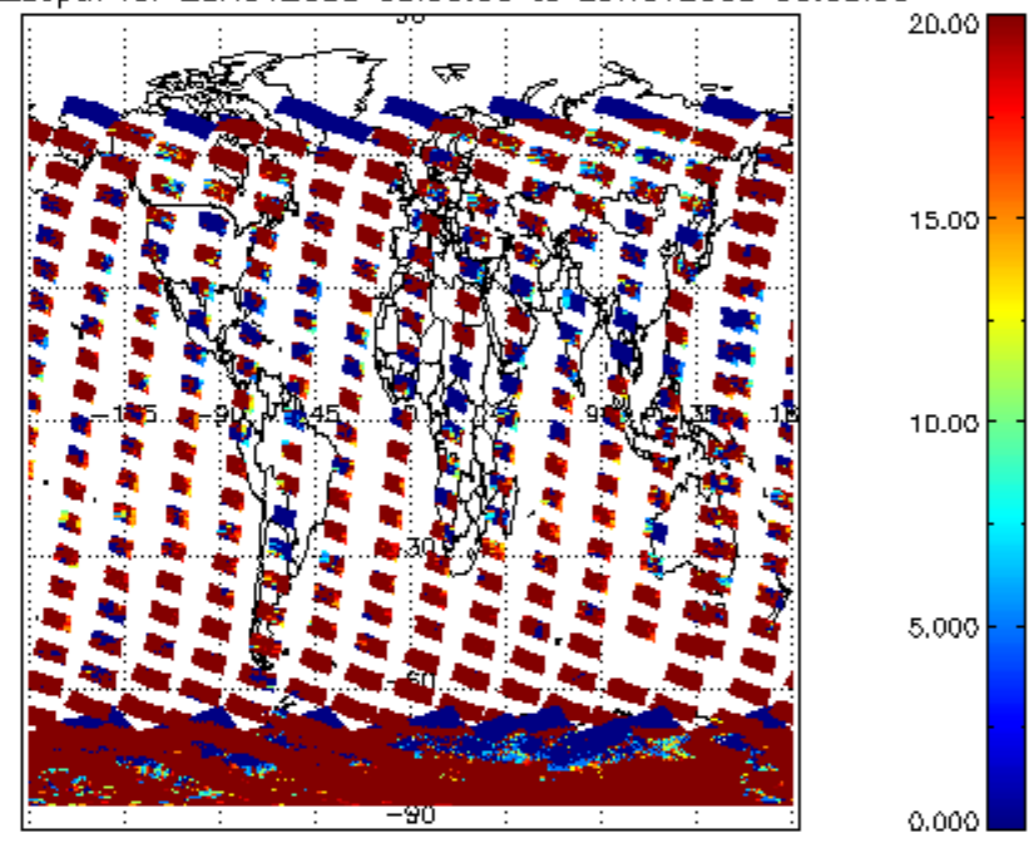
cLfrac for 28NOV2008 00:00:00 to 29NOV2008 00:00:00



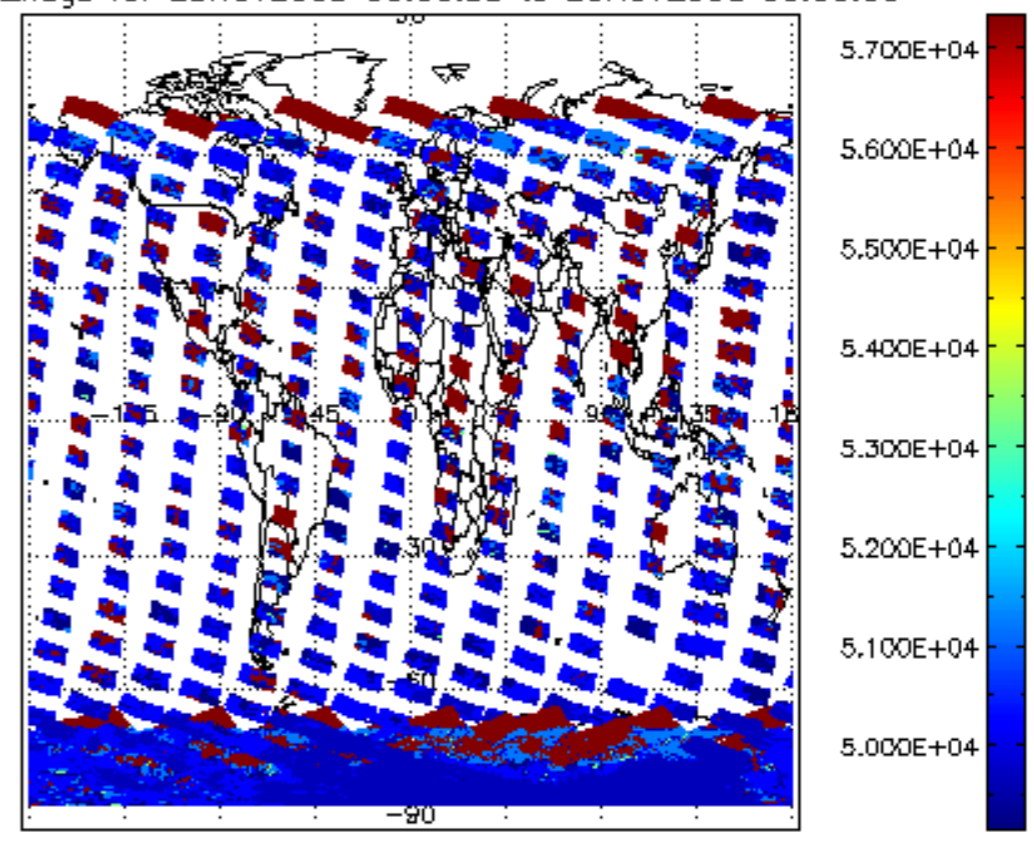
cL_top_height for 28NOV2008 00:00:00 to 29NOV2008 00:00:00

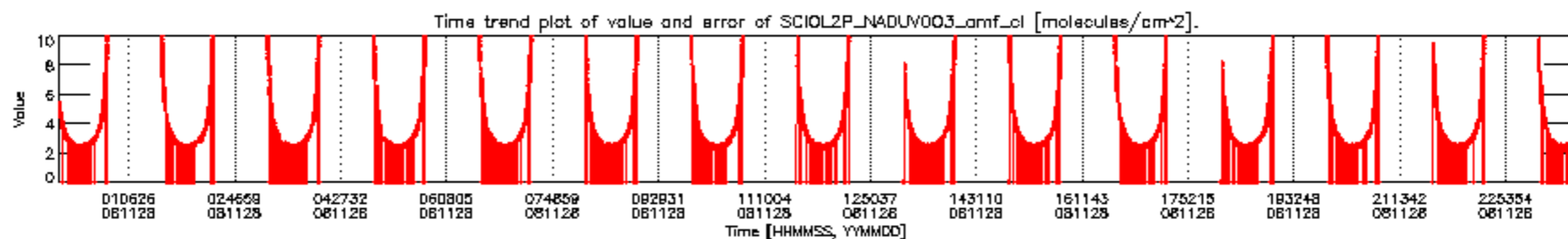
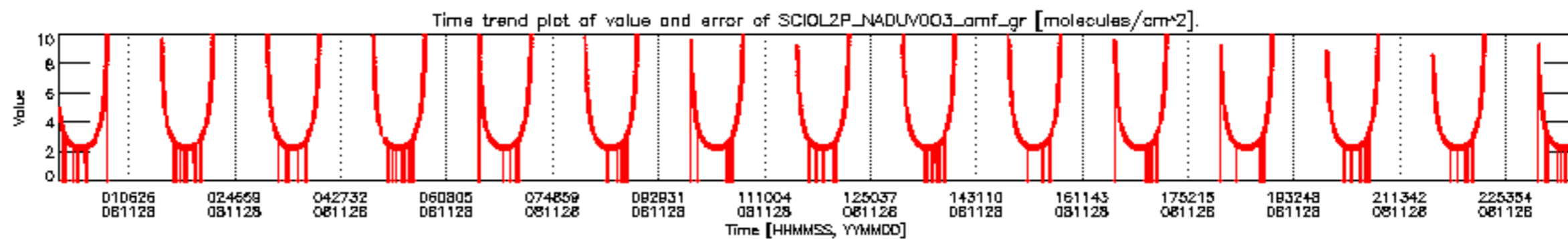
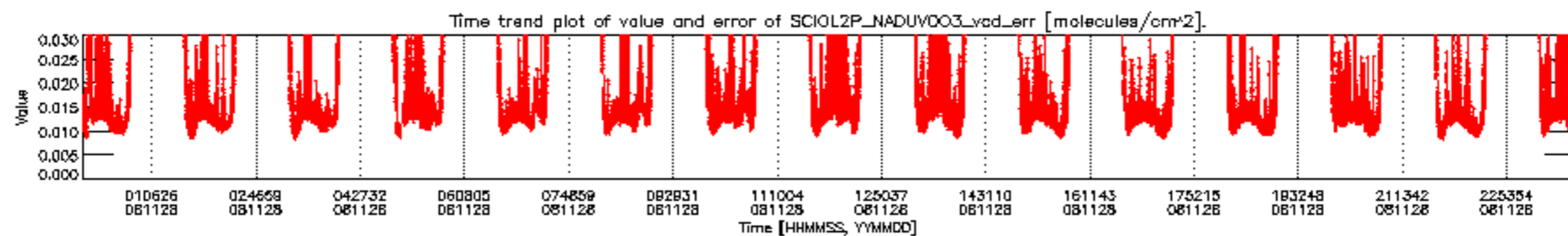
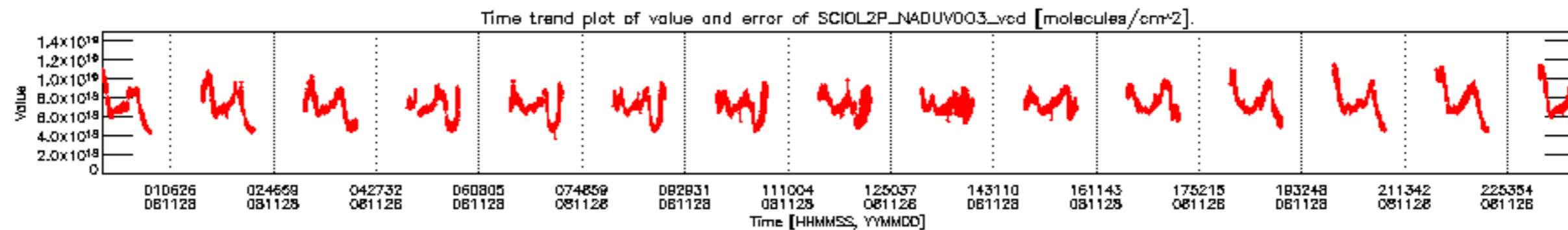


cL_opt_depth for 28NOV2008 00:00:00 to 29NOV2008 00:00:00

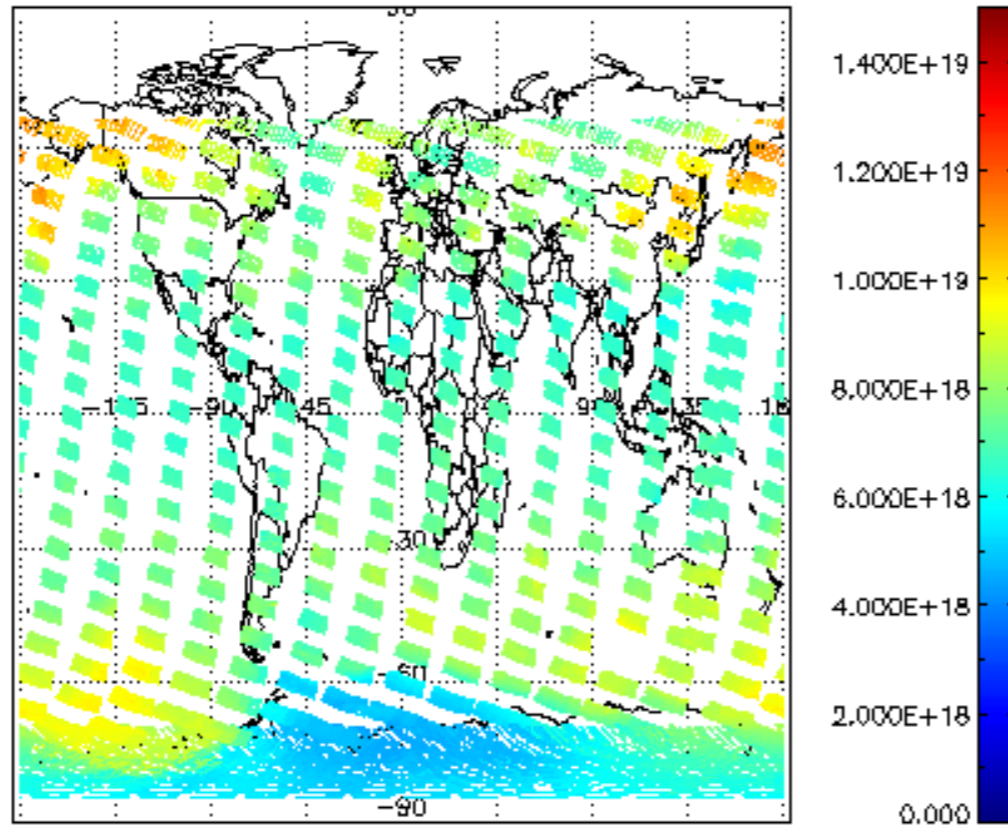


cloud_flags for 28NOV2008 00:00:00 to 29NOV2008 00:00:00

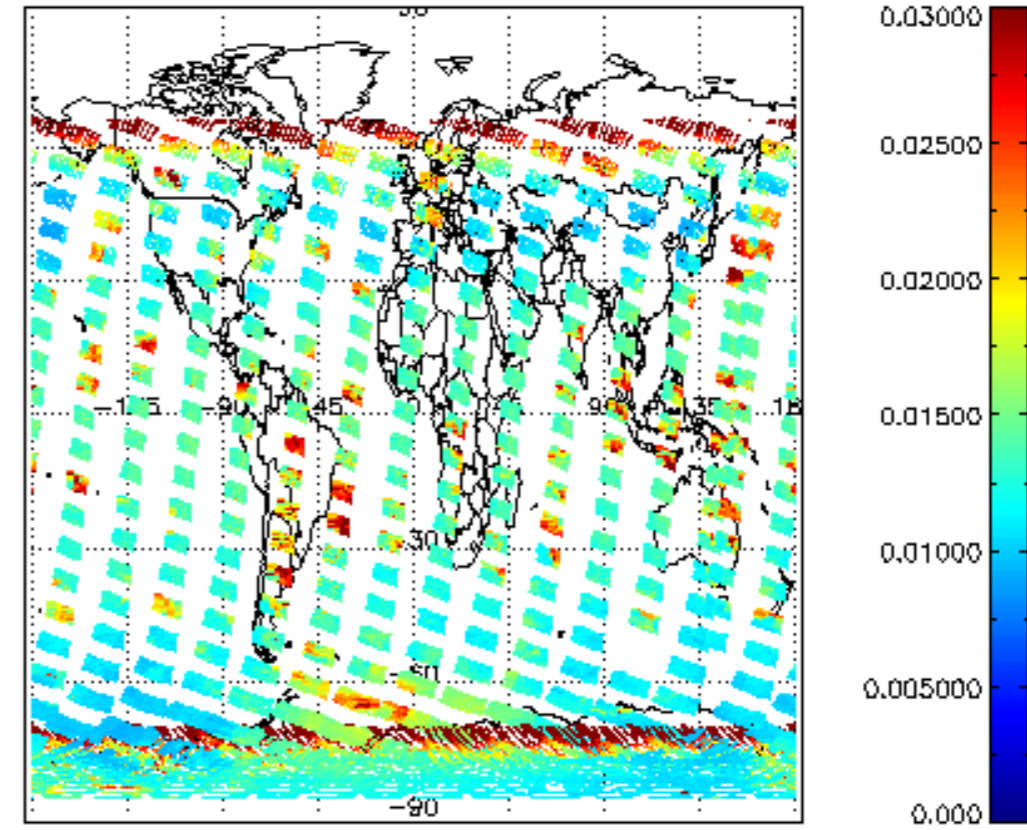




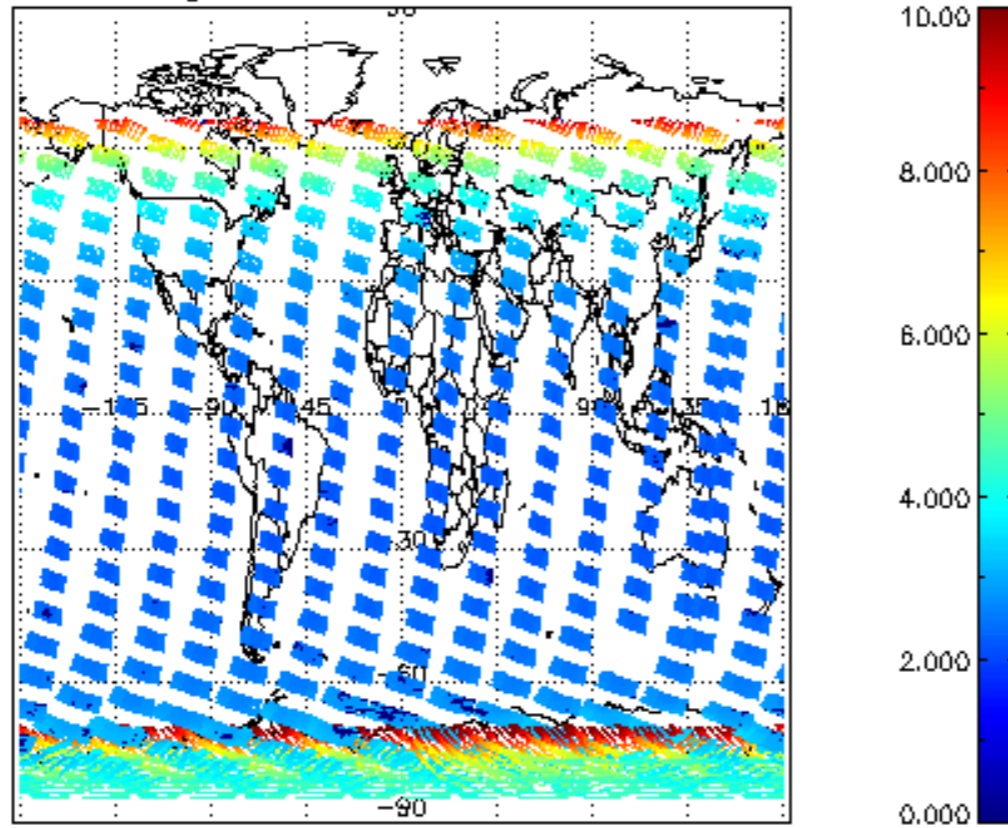
SCIOL2P_NADUV003_vcd for 28NOV2008 00:00:00 to 29NOV2008 00:00:00



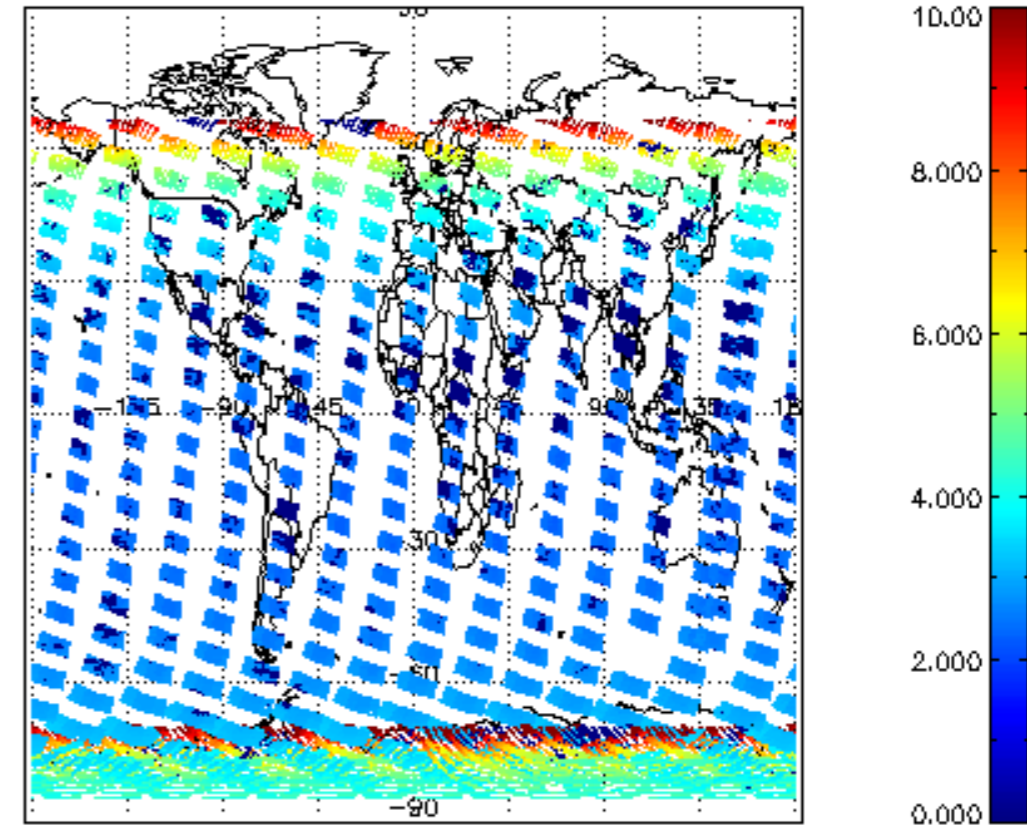
SCIOL2P_NADUV003_vcd_err for 28NOV2008 00:00:00 to 29NOV2008 00:00:00

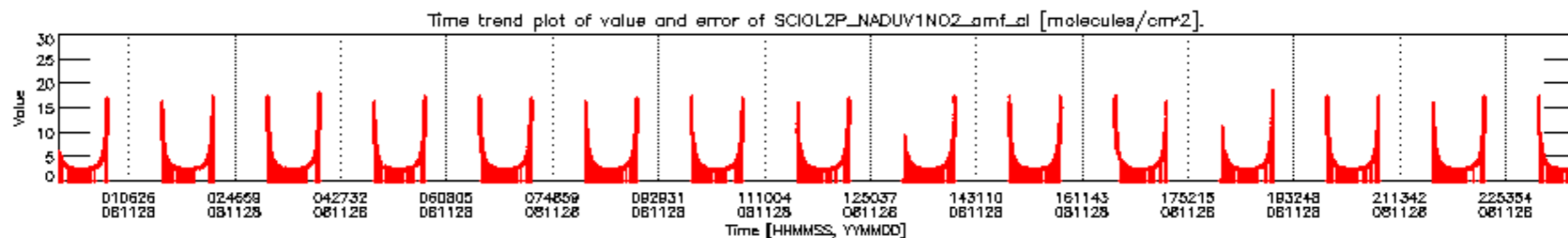
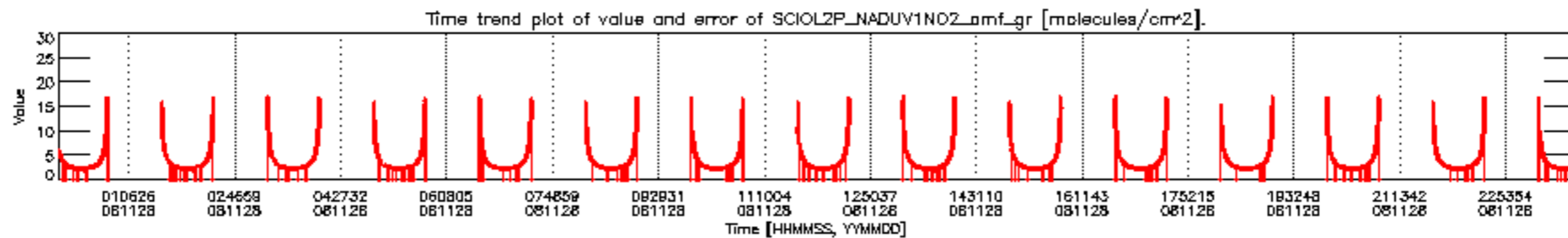
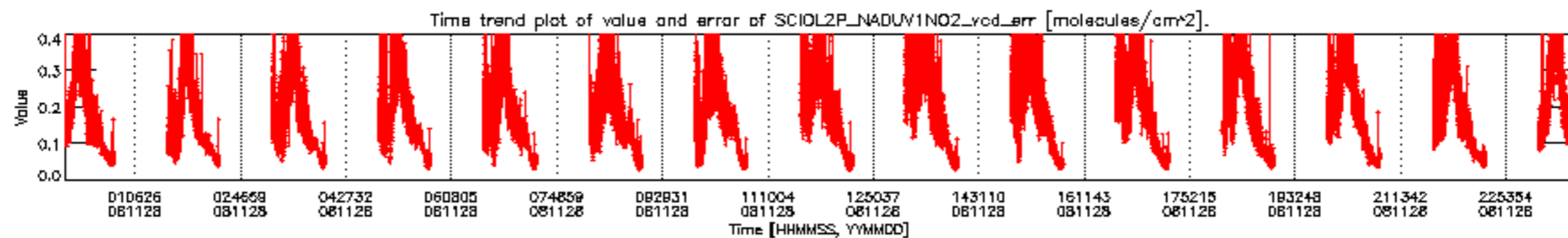
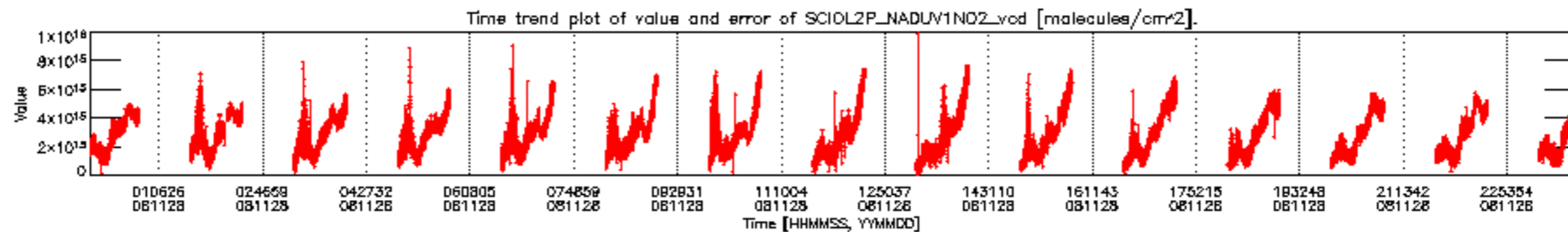


SCIOL2P_NADUV003_amf_gr for 28NOV2008 00:00:00 to 29NOV2008 00:00:00

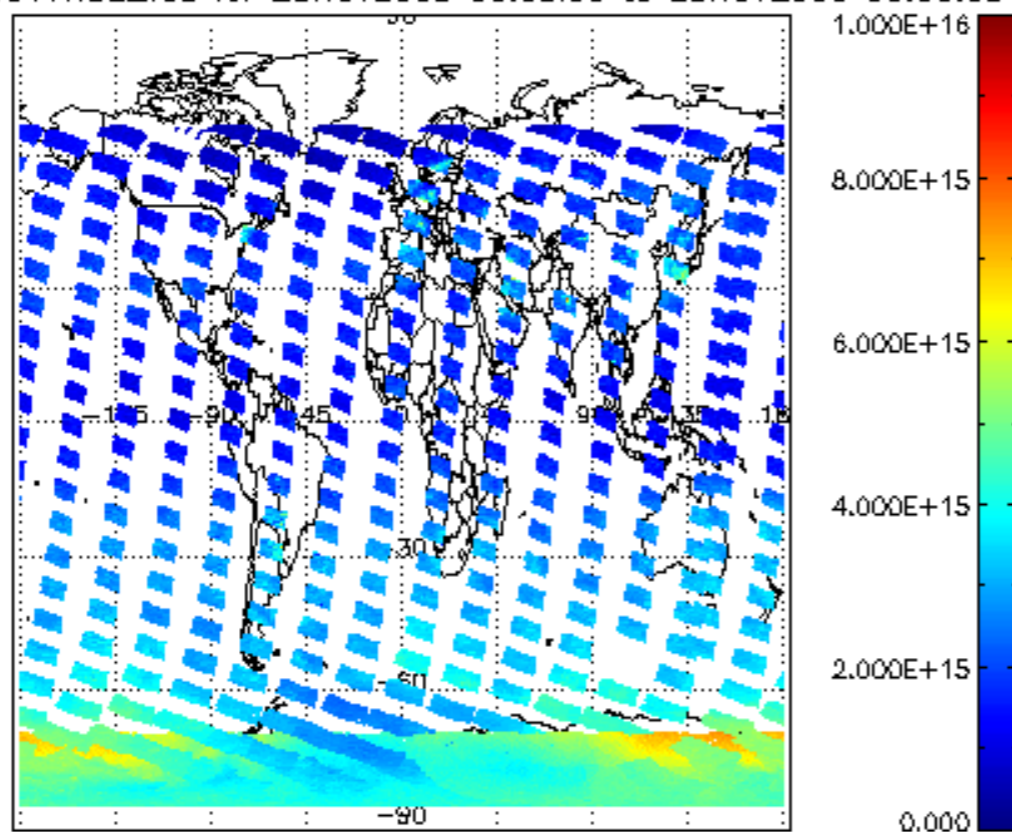


SCIOL2P_NADUV003_amf_cl for 28NOV2008 00:00:00 to 29NOV2008 00:00:00

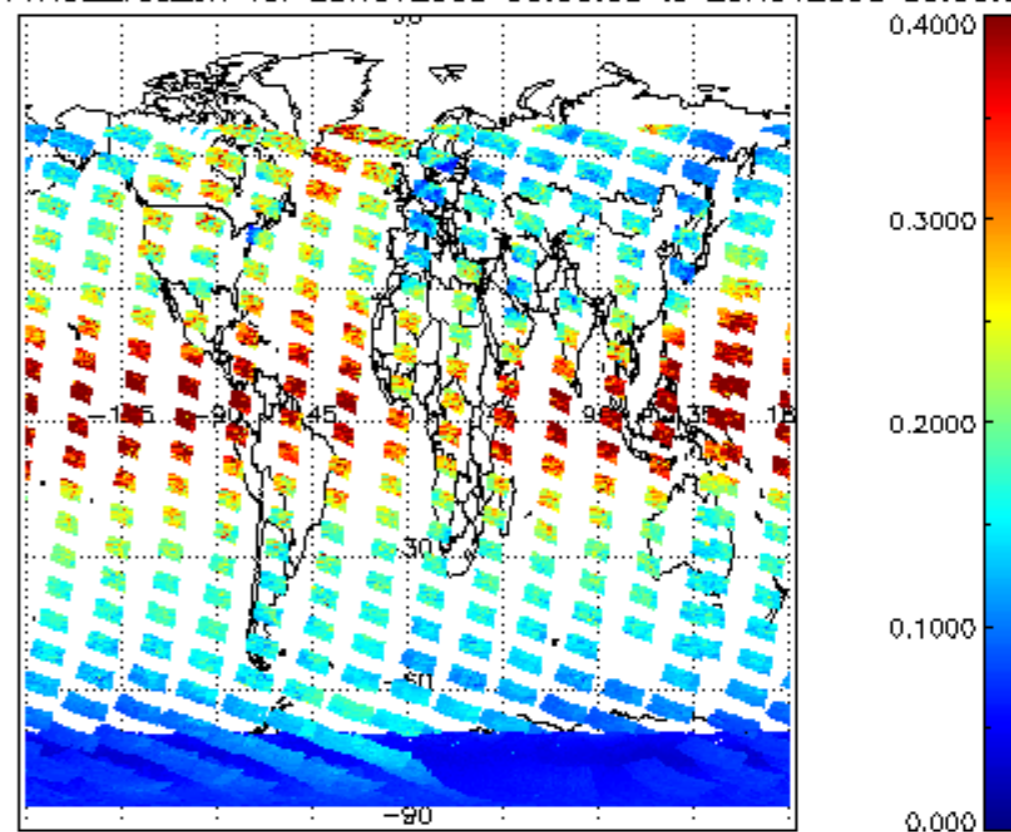




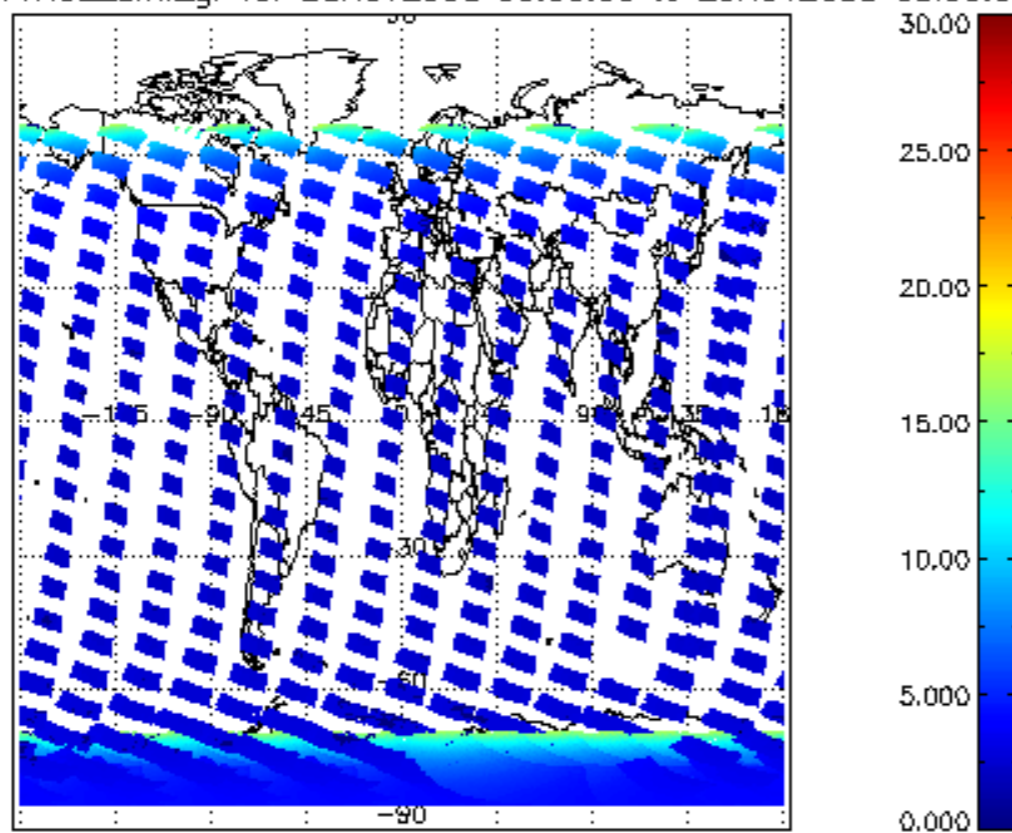
SCIOL2P_NADUV1NO2_vcd for 28NOV2008 00:00:00 to 29NOV2008 00:00:00



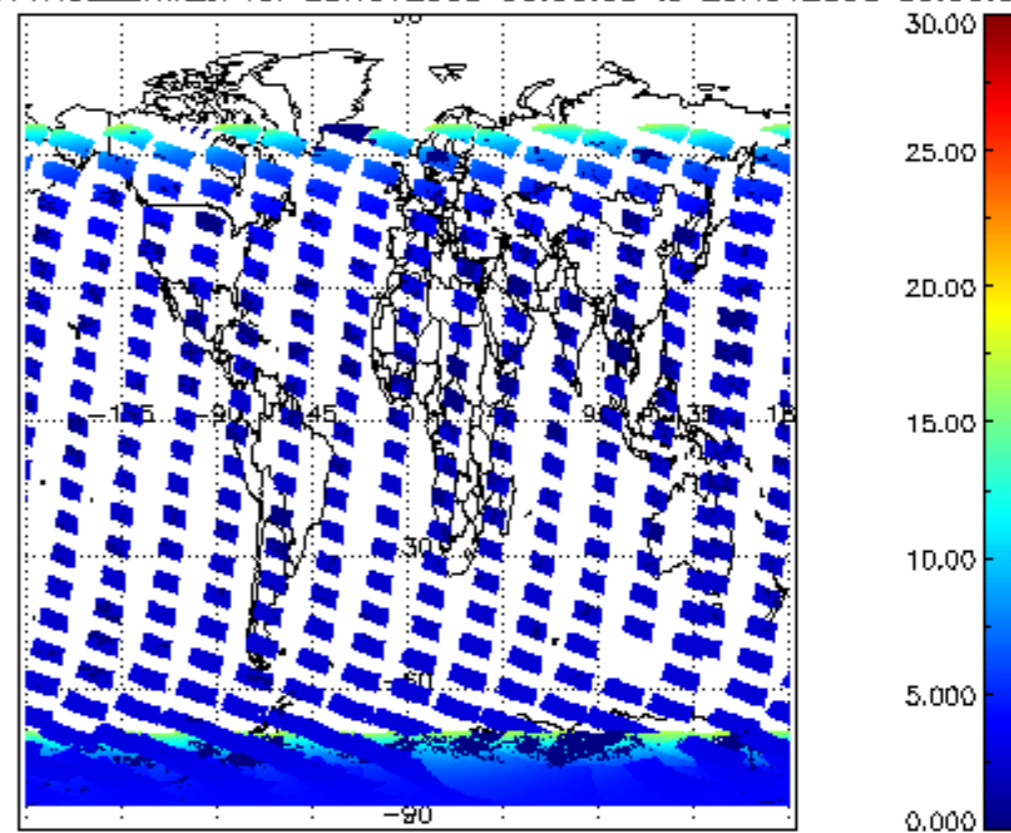
SCIOL2P_NADUV1NO2_vcd_err for 28NOV2008 00:00:00 to 29NOV2008 00:00:00



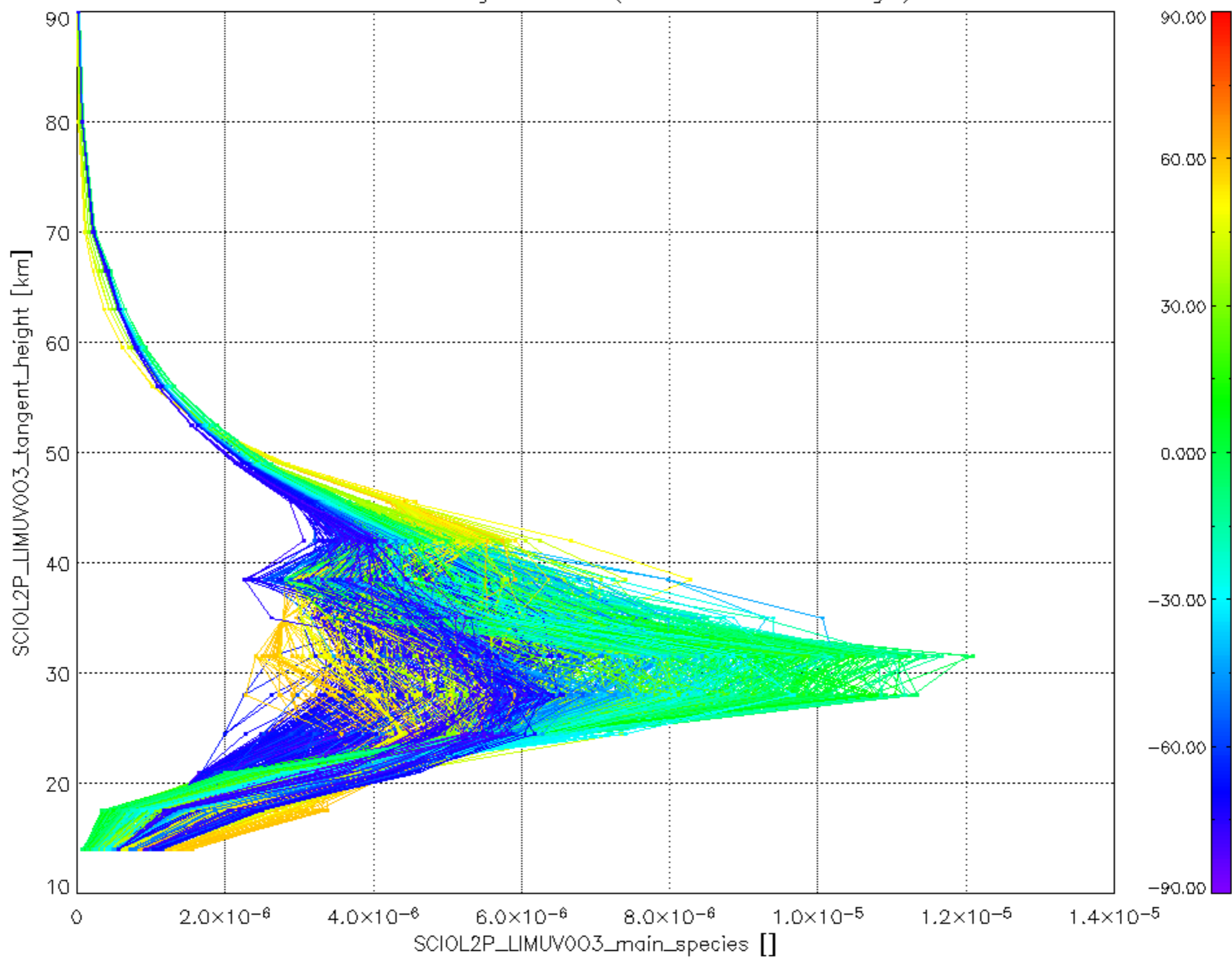
SCIOL2P_NADUV1NO2_amf_gr for 28NOV2008 00:00:00 to 29NOV2008 00:00:00



SCIOL2P_NADUV1NO2_amf_cl for 28NOV2008 00:00:00 to 29NOV2008 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).

