

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	19NOV2008 19:49:10
Data source version	SCIA-OL/3.01-R
Processing scope for products	29NOV2004 00:00:00 to 30NOV2004 00:00:00
Start time of first product within scope	28NOV2004 23:37:11
Stop time of last product within scope	30NOV2004 00:01:58
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__2PRDPA20041128_233711_000033812032_00288_14370_0766.N1	28NOV2004 23:37:11	29NOV2004 00:33:32	0	GOOD
1	SCI_OL__2PRDPA20041129_011747_000033252032_00289_14371_0628.N1	29NOV2004 01:17:47	29NOV2004 02:13:13	0	GOOD
2	SCI_OL__2PRDPA20041129_025823_000033812032_00290_14372_0702.N1	29NOV2004 02:58:23	29NOV2004 03:54:45	0	GOOD
3	SCI_OL__2PRDPA20041129_043859_000033252032_00291_14373_0651.N1	29NOV2004 04:38:59	29NOV2004 05:34:25	0	GOOD
4	SCI_OL__2PRDPA20041129_061936_000033812032_00292_14374_0754.N1	29NOV2004 06:19:36	29NOV2004 07:15:57	0	GOOD
5	SCI_OL__2PRDPA20041129_080012_000033252032_00293_14375_0621.N1	29NOV2004 08:00:12	29NOV2004 08:55:37	0	GOOD
6	SCI_OL__2PRDPA20041129_094048_000033812032_00294_14376_0684.N1	29NOV2004 09:40:48	29NOV2004 10:37:09	0	GOOD
7	SCI_OL__2PRDPA20041129_112124_000033252032_00295_14377_0756.N1	29NOV2004 11:21:24	29NOV2004 12:16:49	0	GOOD
8	SCI_OL__2PRDPA20041129_130200_000033812032_00296_14378_0706.N1	29NOV2004 13:02:00	29NOV2004 13:58:21	0	GOOD
9	SCI_OL__2PRDPA20041129_144236_000033942032_00297_14379_0753.N1	29NOV2004 14:42:36	29NOV2004 15:39:10	0	GOOD
10	SCI_OL__2PRDPA20041129_162312_000033812032_00298_14380_0647.N1	29NOV2004 16:23:12	29NOV2004 17:19:34	0	GOOD
11	SCI_OL__2PRDPA20041129_180343_000033872032_00299_14381_0626.N1	29NOV2004 18:03:43	29NOV2004 19:00:11	0	GOOD
12	SCI_OL__2PRDPA20041129_194446_000033122032_00300_14382_0758.N1	29NOV2004 19:44:46	29NOV2004 20:39:59	0	GOOD
13	SCI_OL__2PRDPA20041129_212501_000033942032_00301_14383_0636.N1	29NOV2004 21:25:01	29NOV2004 22:21:35	0	GOOD
14	SCI_OL__2PRDPA20041129_230537_000033812032_00302_14384_0642.N1	29NOV2004 23:05:37	30NOV2004 00:01:58	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: 154251

Total number of cloud data DSRs with good quality flag (=0): 154251 (100.0 %)

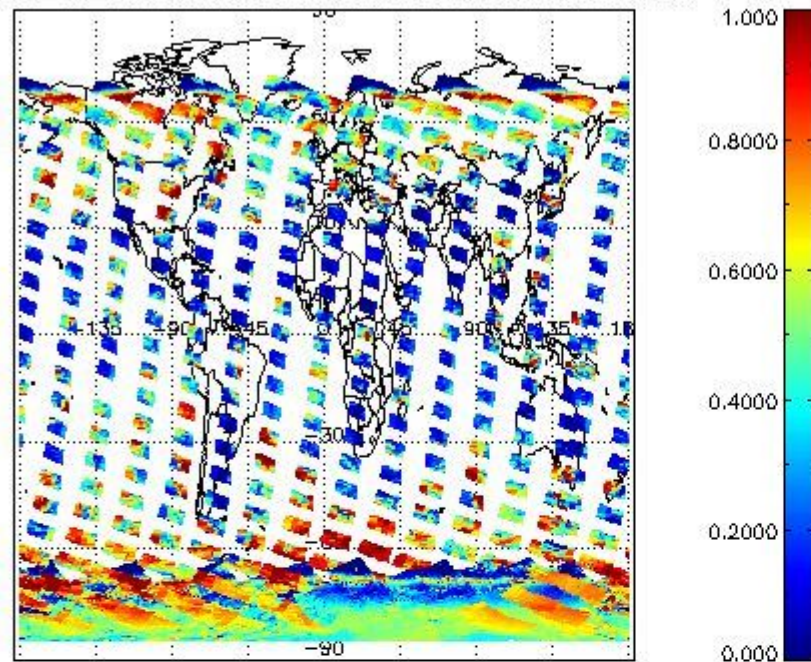
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	154251	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	154251	0.16984	0.12500	0.12500	0.25000	0.059953	s
CL_FRAC	154251	0.43824	0.44654	0.0000	1.0000	0.27381	-
CL_FRAC_ERR	154251	0.0000	0.0000	0.0000	0.0000	0.0000	rel. fraction
PMD_READ	154251	5.4348	4.0000	4.0000	8.0000	1.9185	
PMD_READ_CL[0]	154251	0.26853	0.0000	0.0000	8.0000	1.1835	-
PMD_READ_CL[1]	154251	0.37556	0.0000	0.0000	8.0000	1.3002	-
CL_TOP_HEIGHT	131785	4.3152	3.3483	0.0000	17.000	3.8445	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	131785	53.386	39.506	0.0000	101.00	40.474	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	154251	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	154251	11001000	11000100	11000000	11100000	2987.9	flags
AERO_ABSO_IND	154251	0.74036	0.50840	-4.2545	11.980	1.0586	
AERO_IND_DIAG	154251	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	154251	01010111	00000000	00000000	11000000	24471.	flags

Time and geolocation plots:

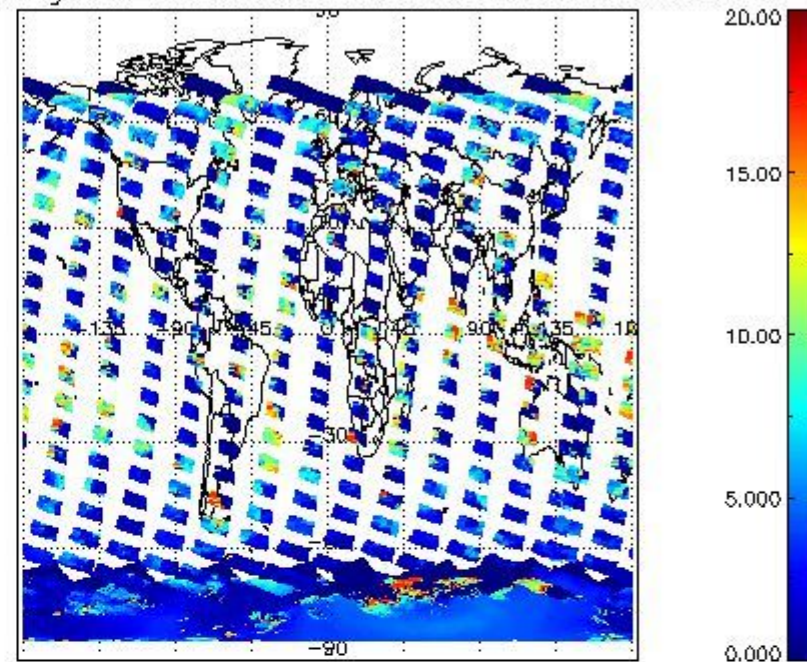
Plots are available for the following parameters:

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

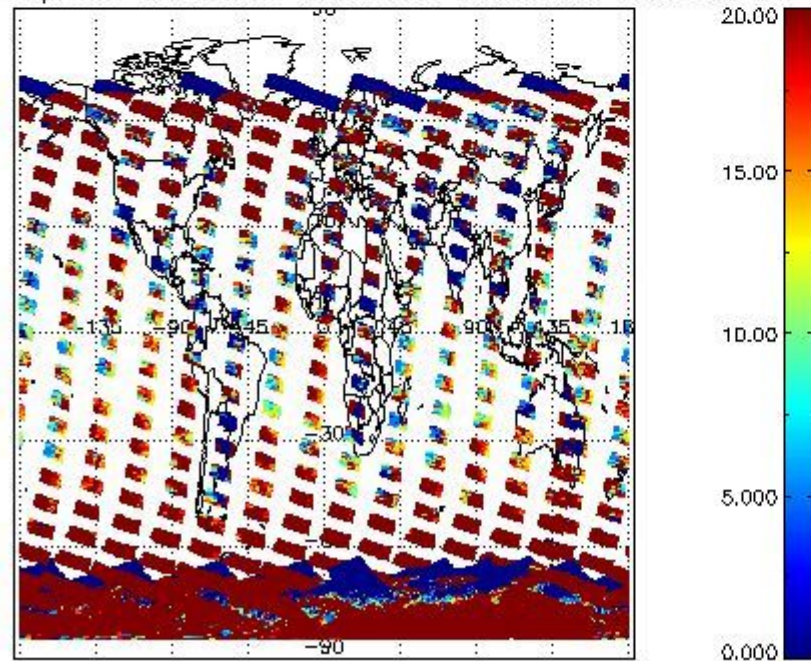
cLfrac for 29NOV2004 00:00:00 to 30NOV2004 00:00:00



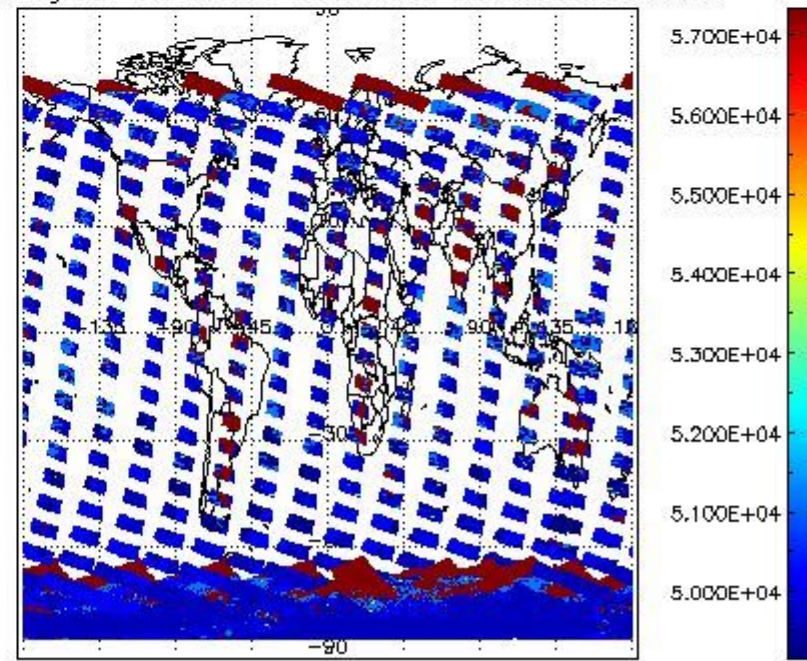
cL_top_height for 29NOV2004 00:00:00 to 30NOV2004 00:00:00



cLopt_depth for 29NOV2004 00:00:00 to 30NOV2004 00:00:00



cloud_flags for 29NOV2004 00:00:00 to 30NOV2004 00:00:00



2.2.2 Nadir

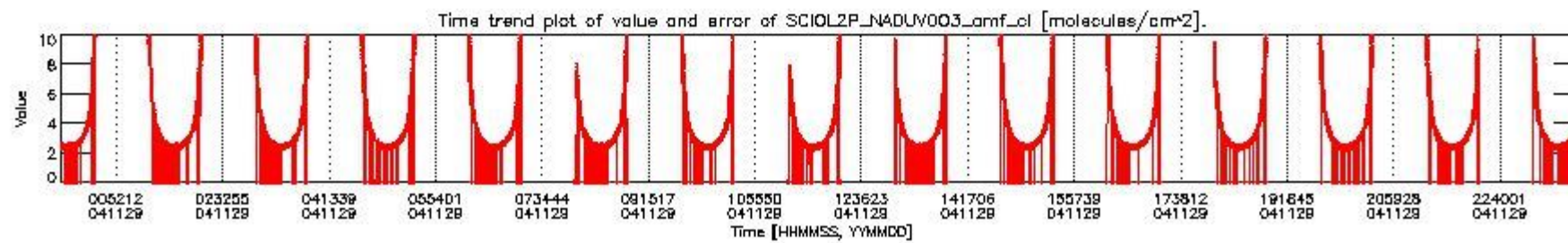
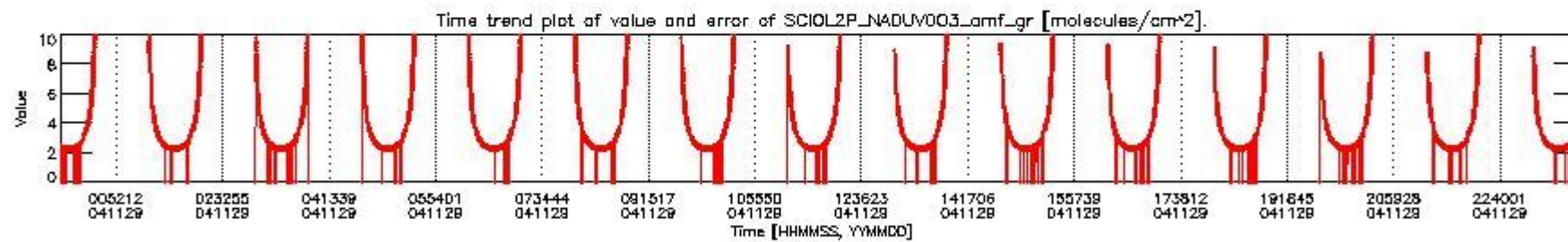
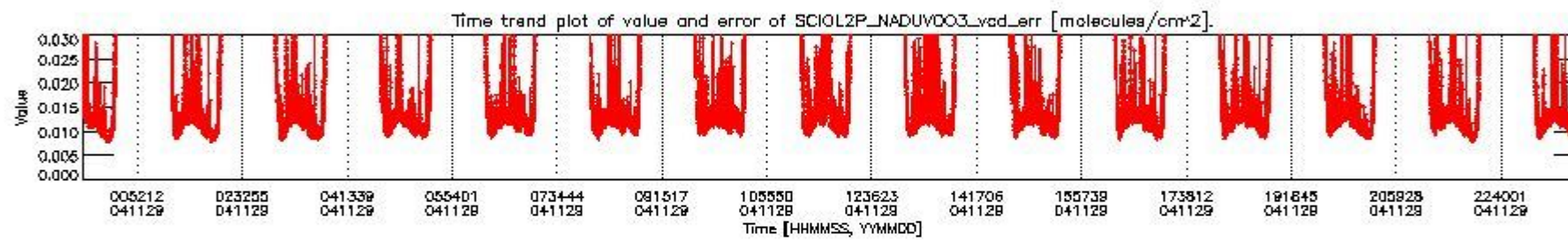
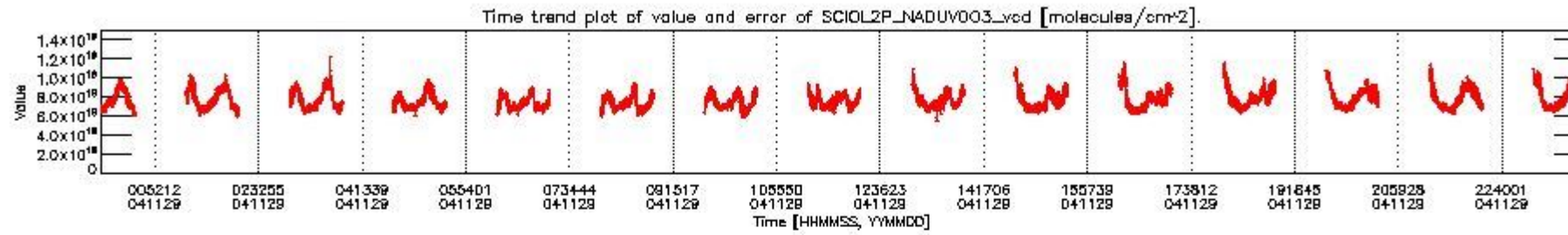
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

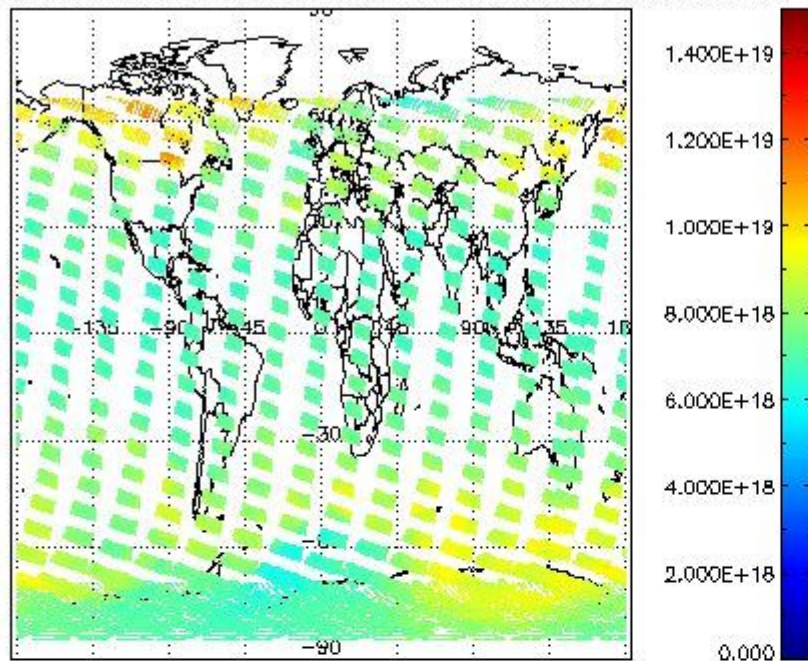
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

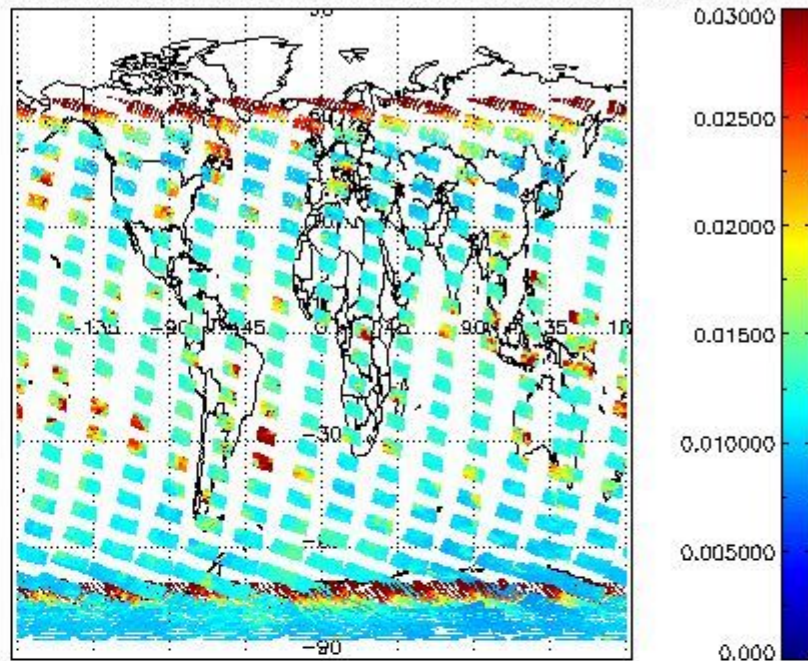
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



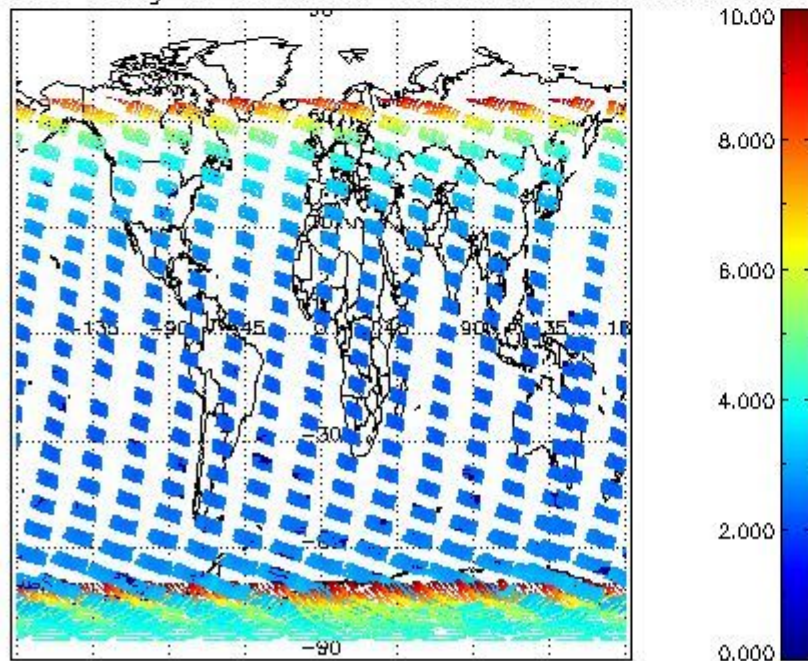
SCIOL2P_NADUV003_vcd for 29NOV2004 00:00:00 to 30NOV2004 00:00:00



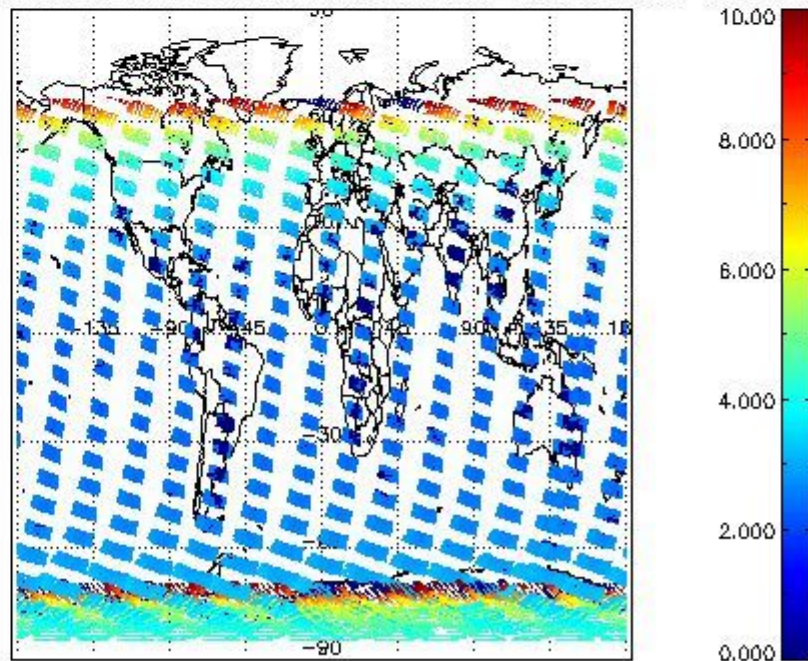
SCIOL2P_NADUV003_vcd_err for 29NOV2004 00:00:00 to 30NOV2004 00:00:00

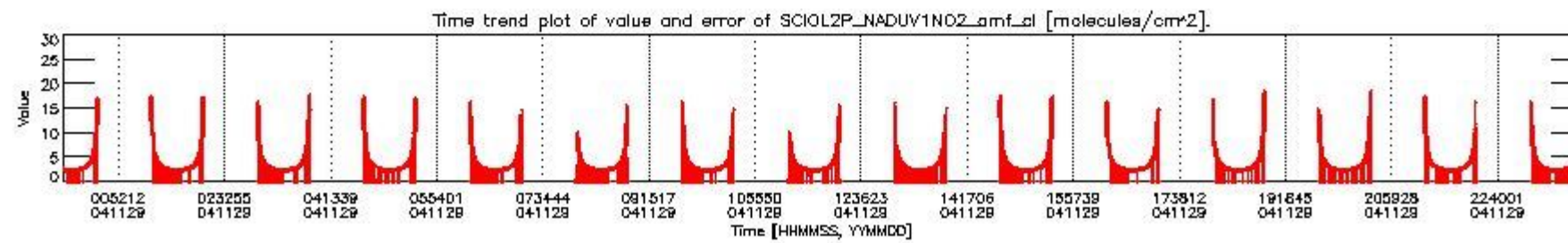
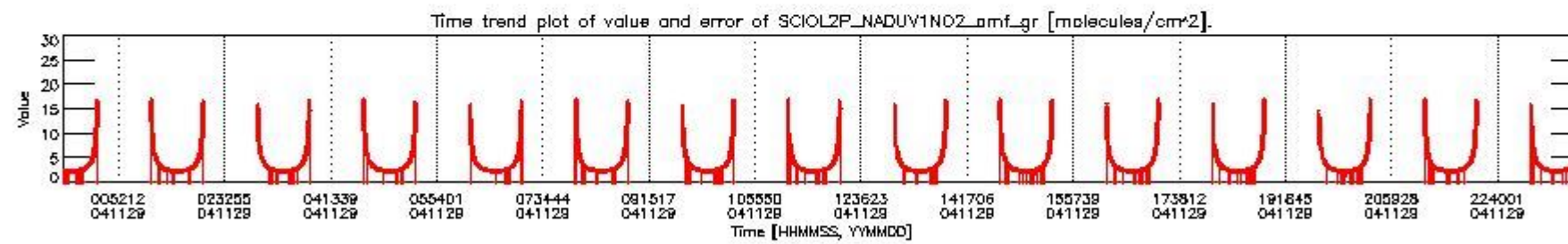
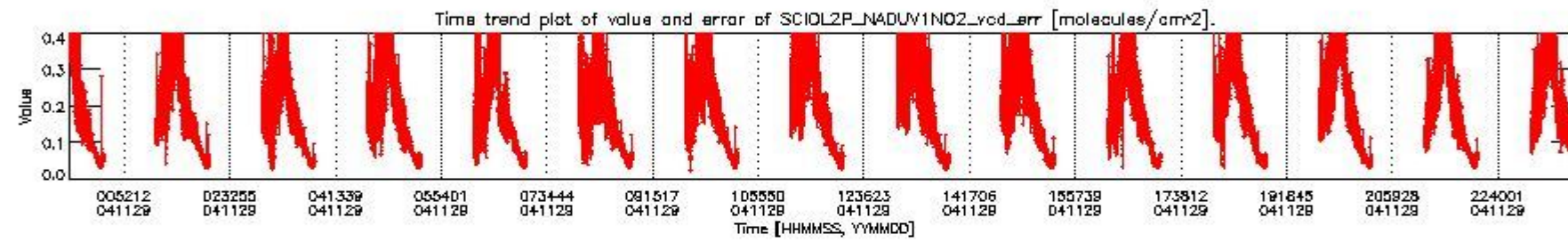
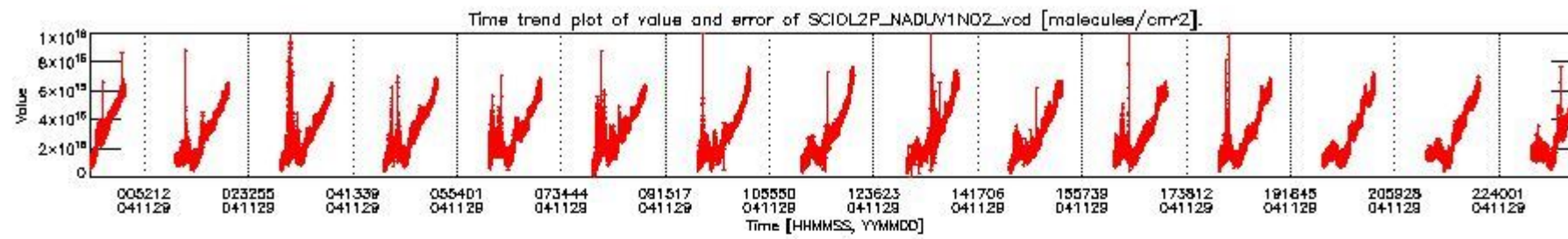


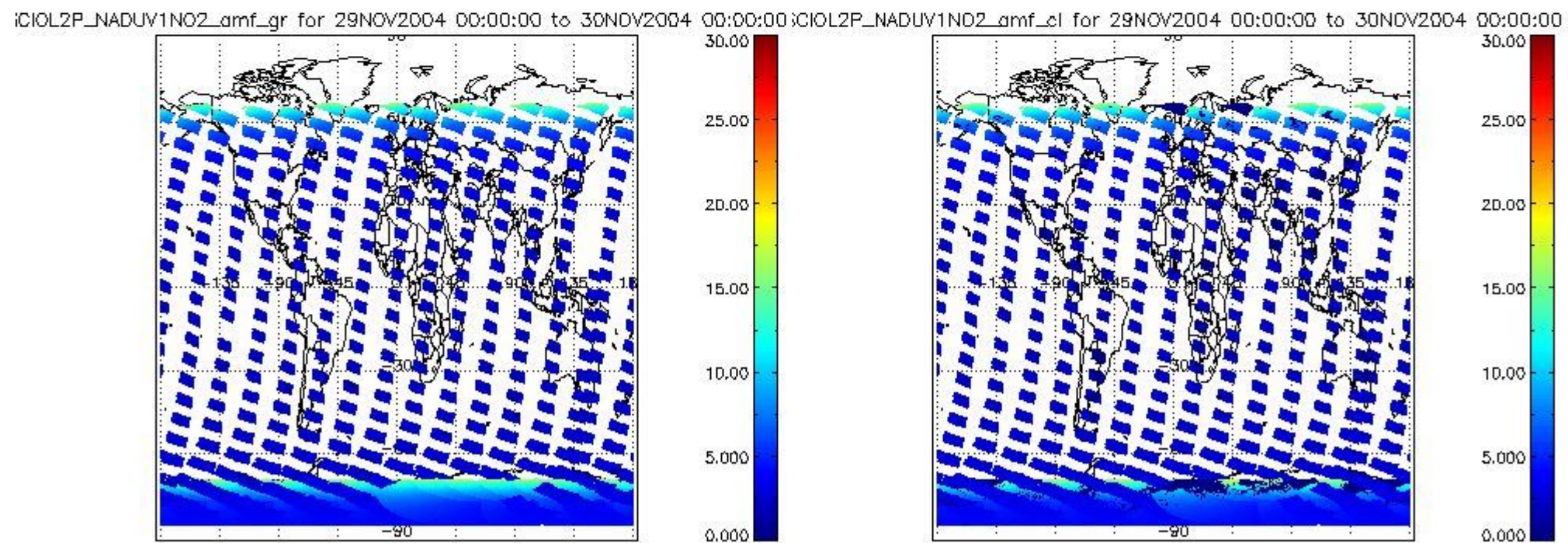
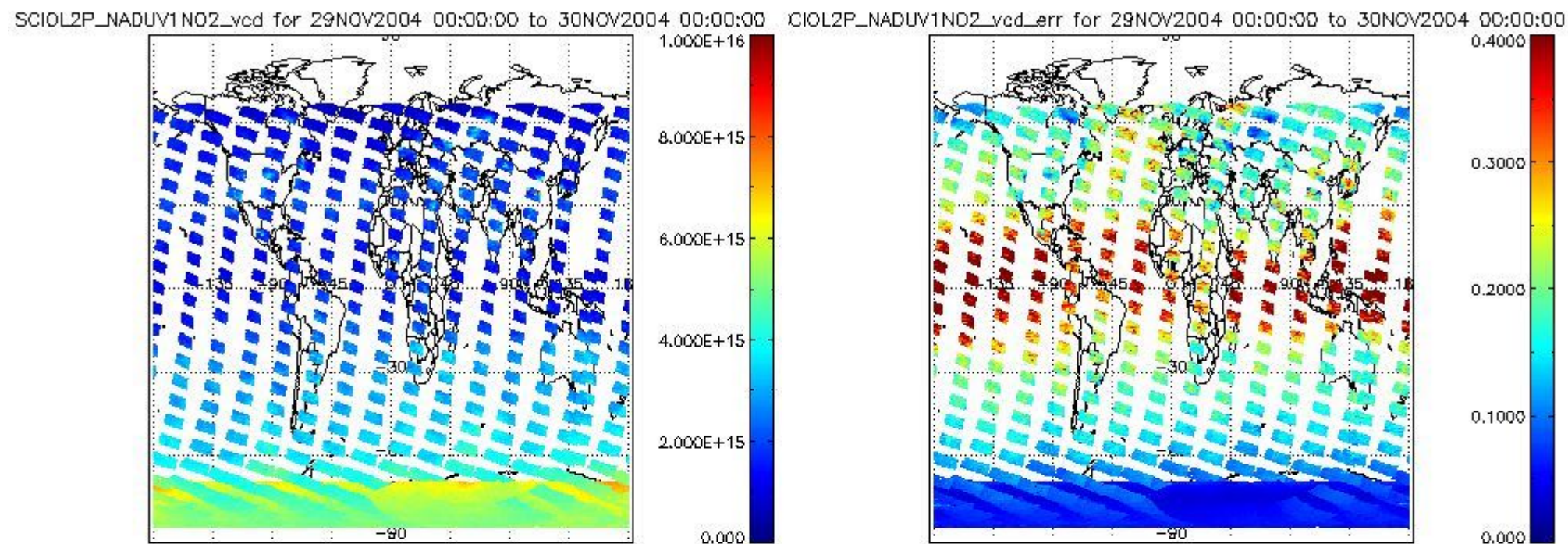
SCIOL2P_NADUV003_amf_gr for 29NOV2004 00:00:00 to 30NOV2004 00:00:00



SCIOL2P_NADUV003_amf_cl for 29NOV2004 00:00:00 to 30NOV2004 00:00:00







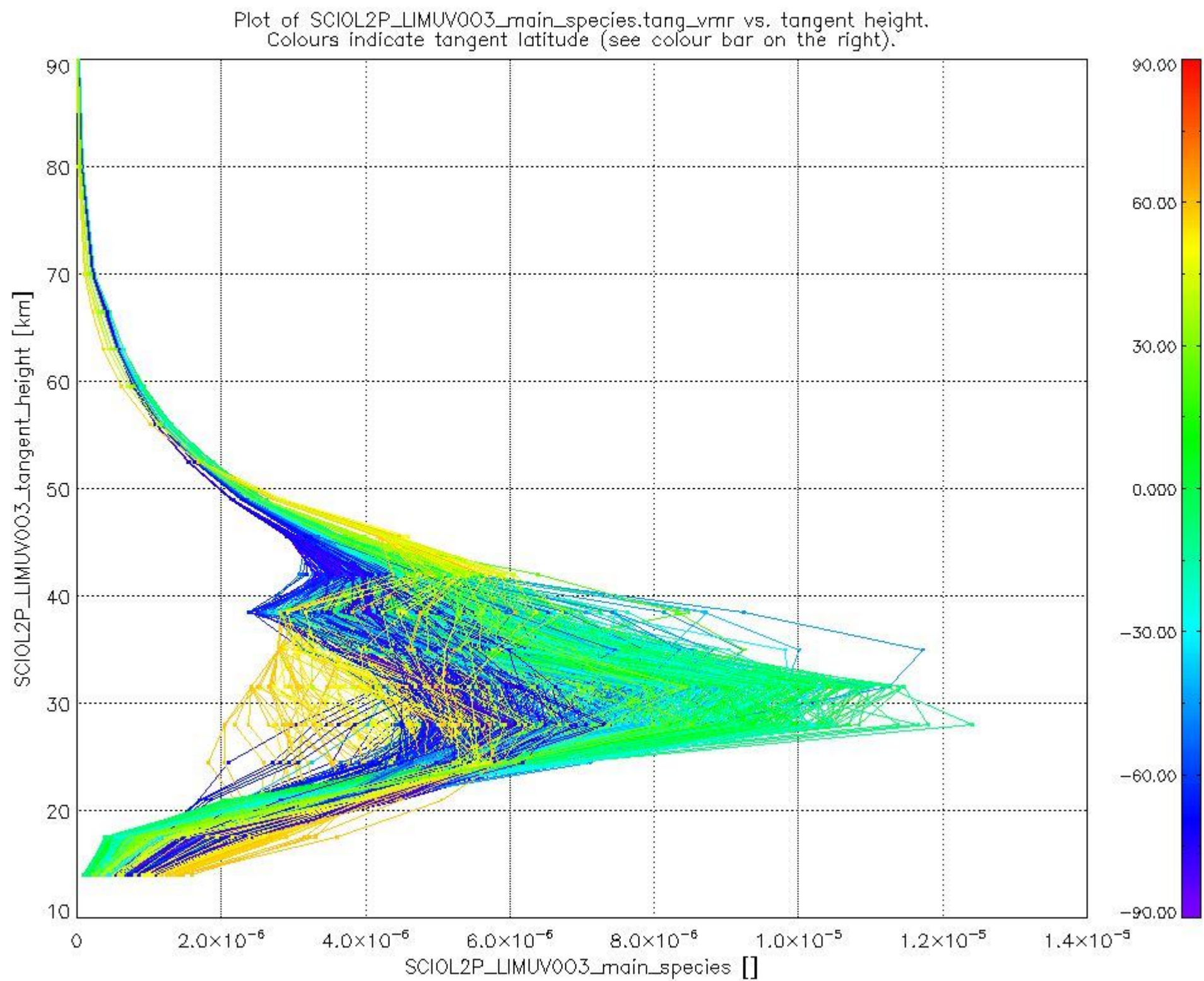
2.2.3 Limb

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

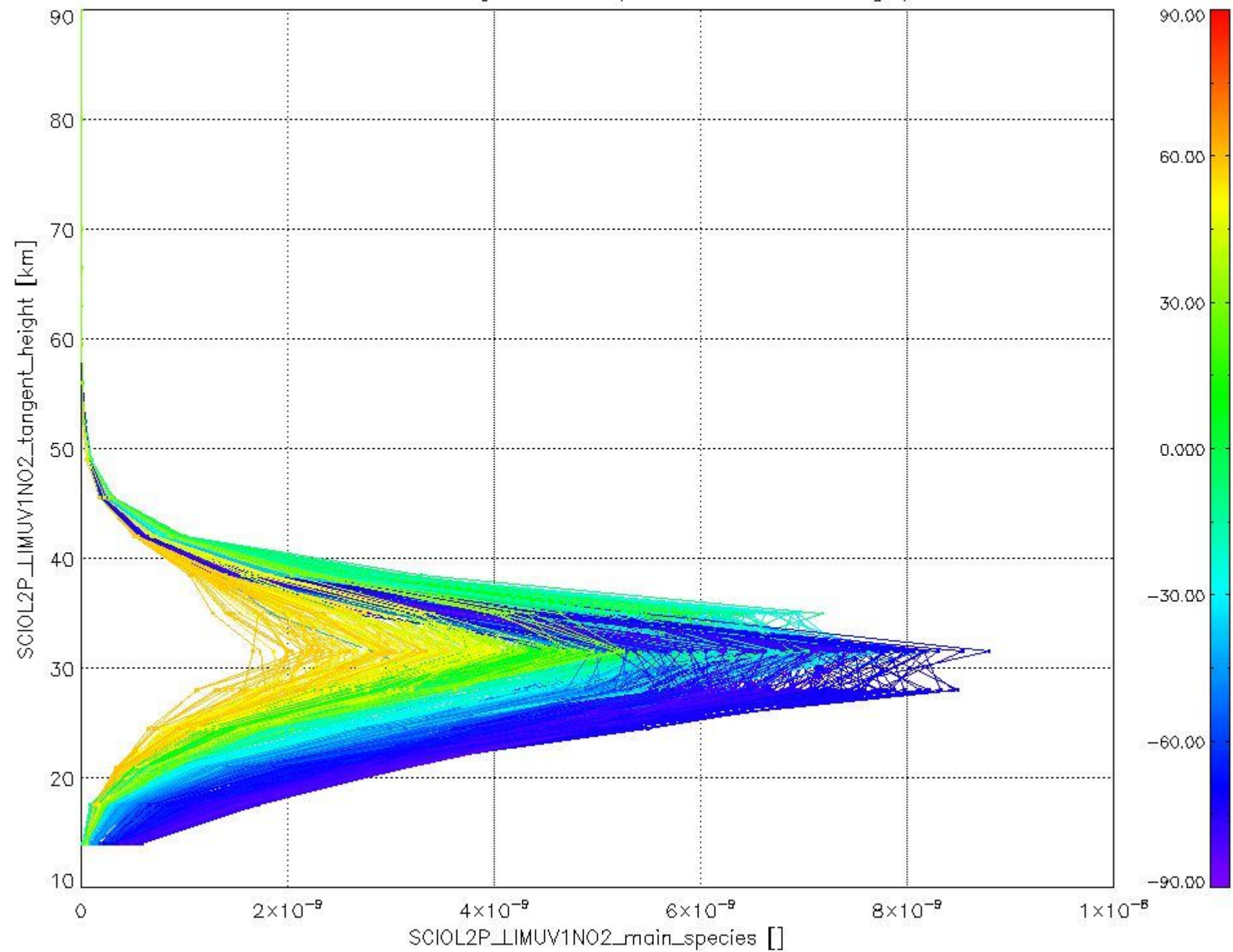
The following data items are currently included into this section:

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.



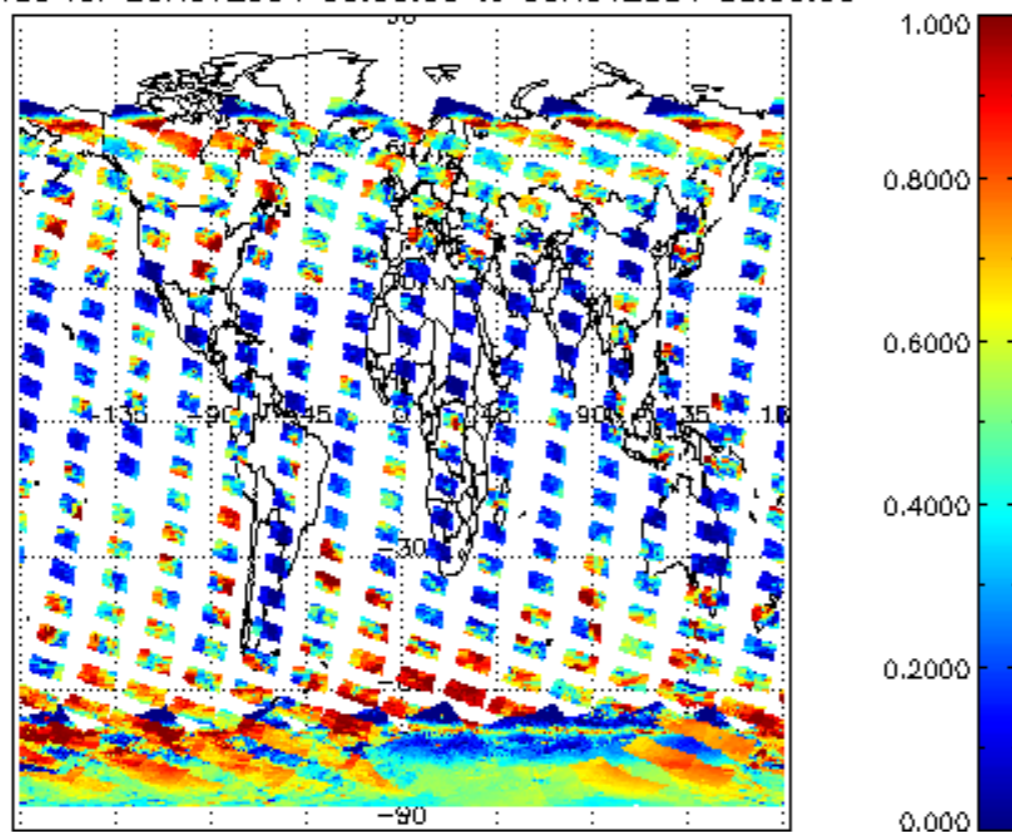
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



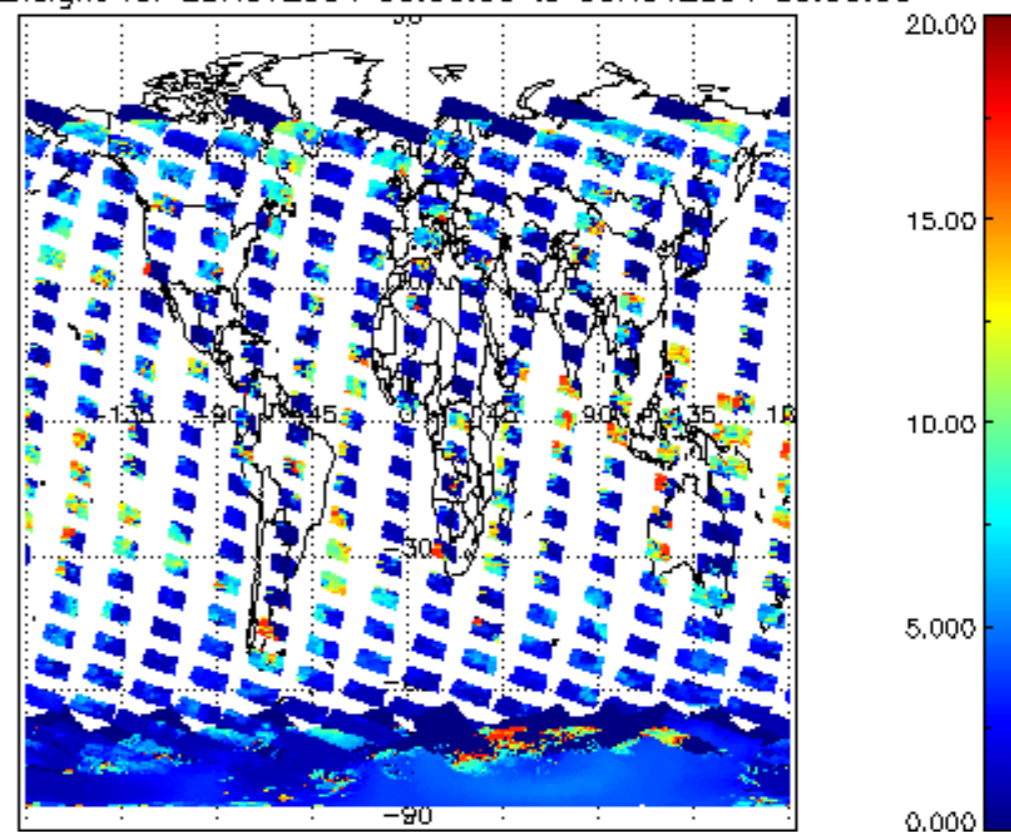
2.3 ADF monitoring

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

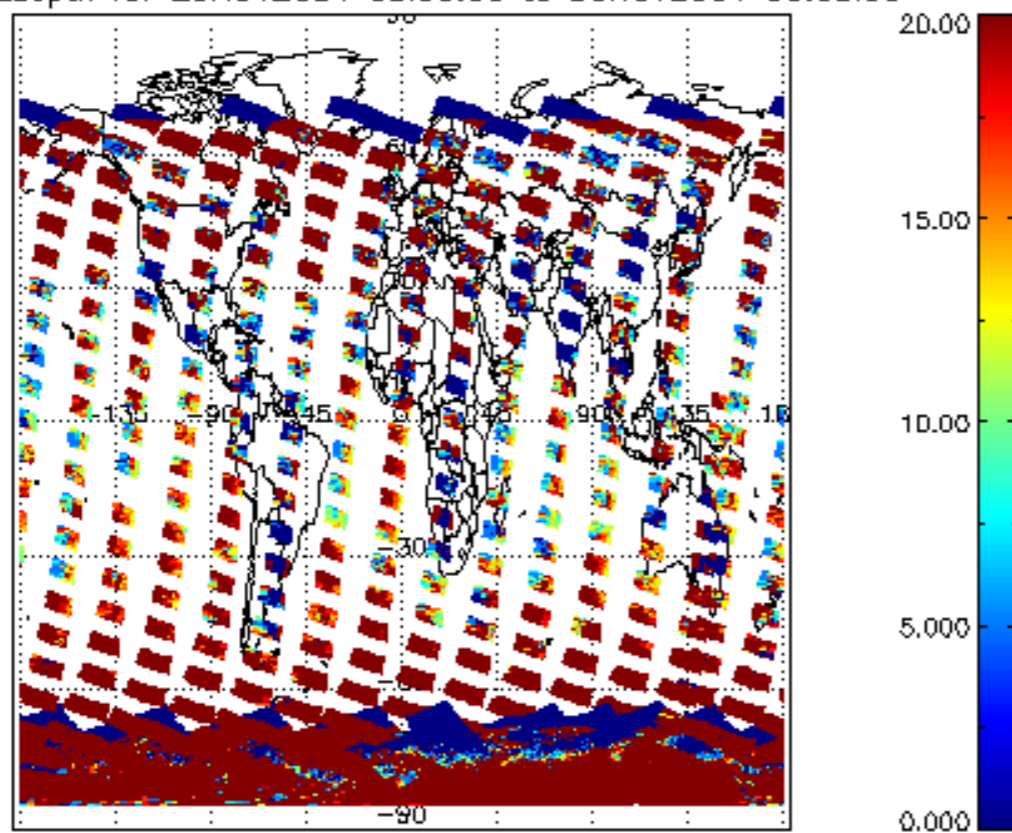
cLfrac for 29NOV2004 00:00:00 to 30NOV2004 00:00:00



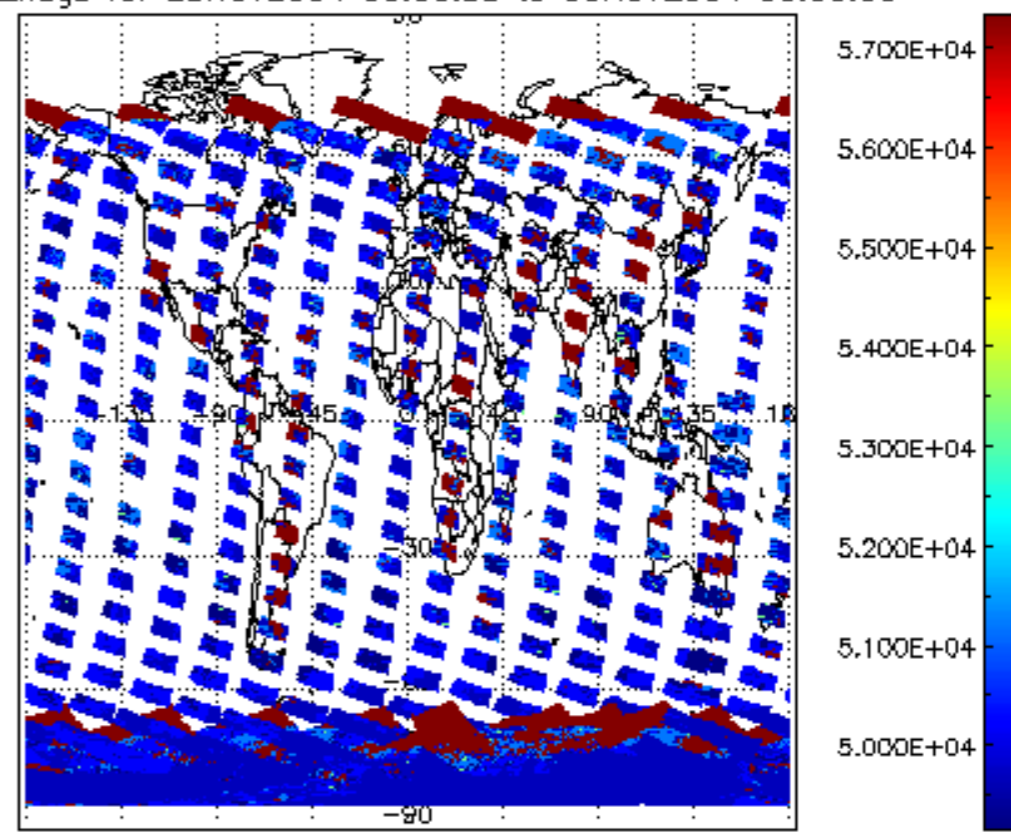
cL_top_height for 29NOV2004 00:00:00 to 30NOV2004 00:00:00

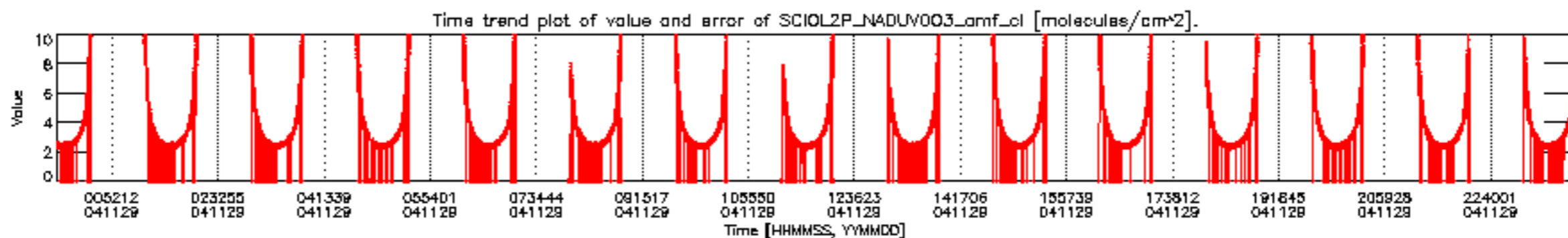
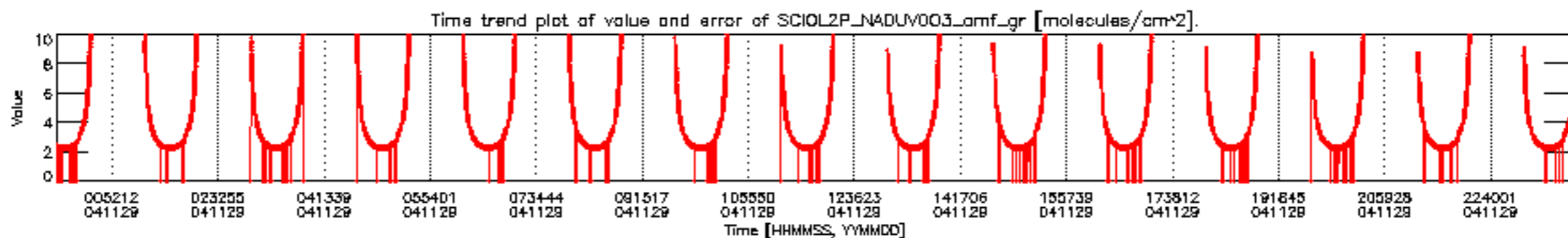
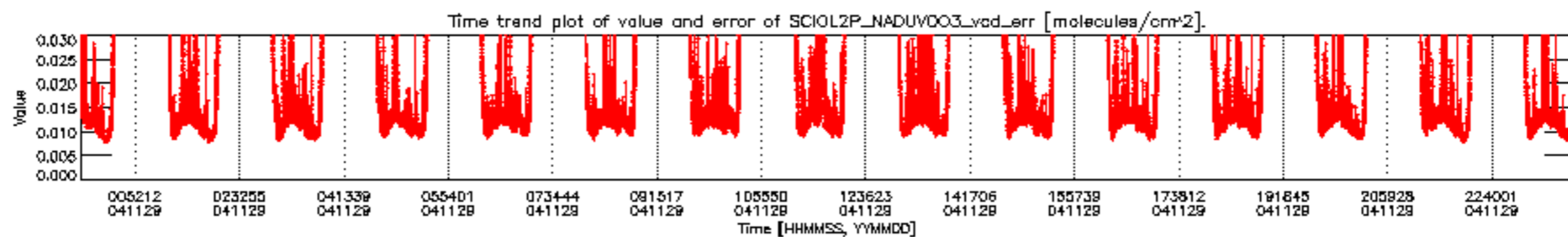
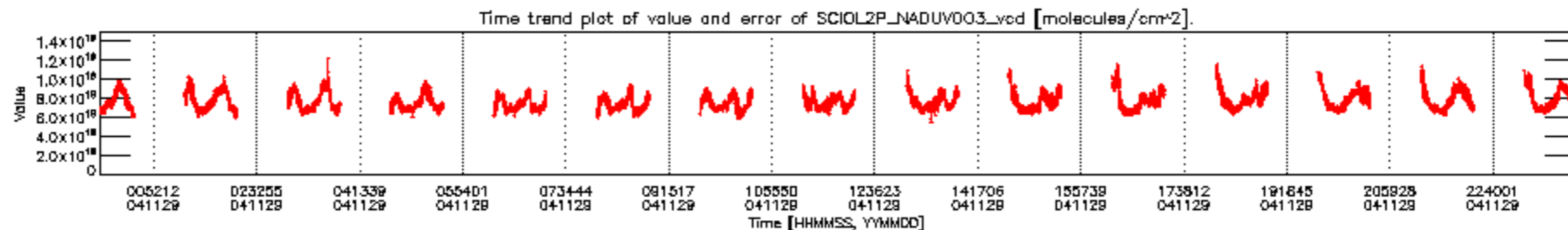


cL_opt_depth for 29NOV2004 00:00:00 to 30NOV2004 00:00:00

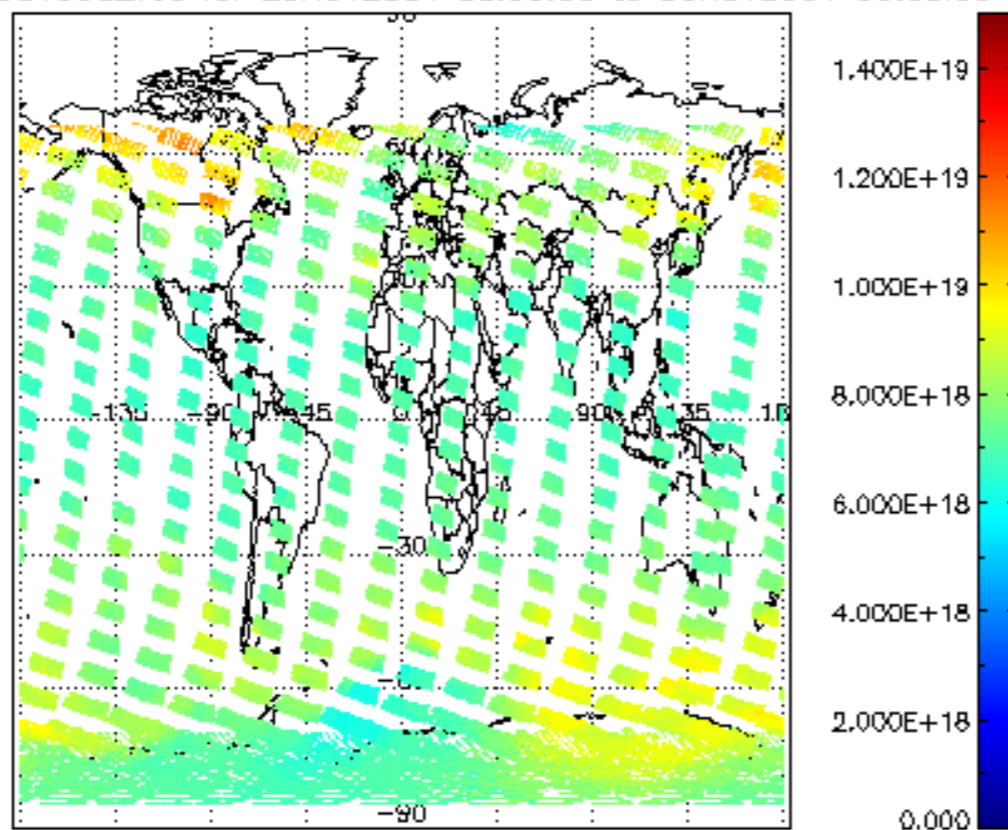


cloud_flags for 29NOV2004 00:00:00 to 30NOV2004 00:00:00

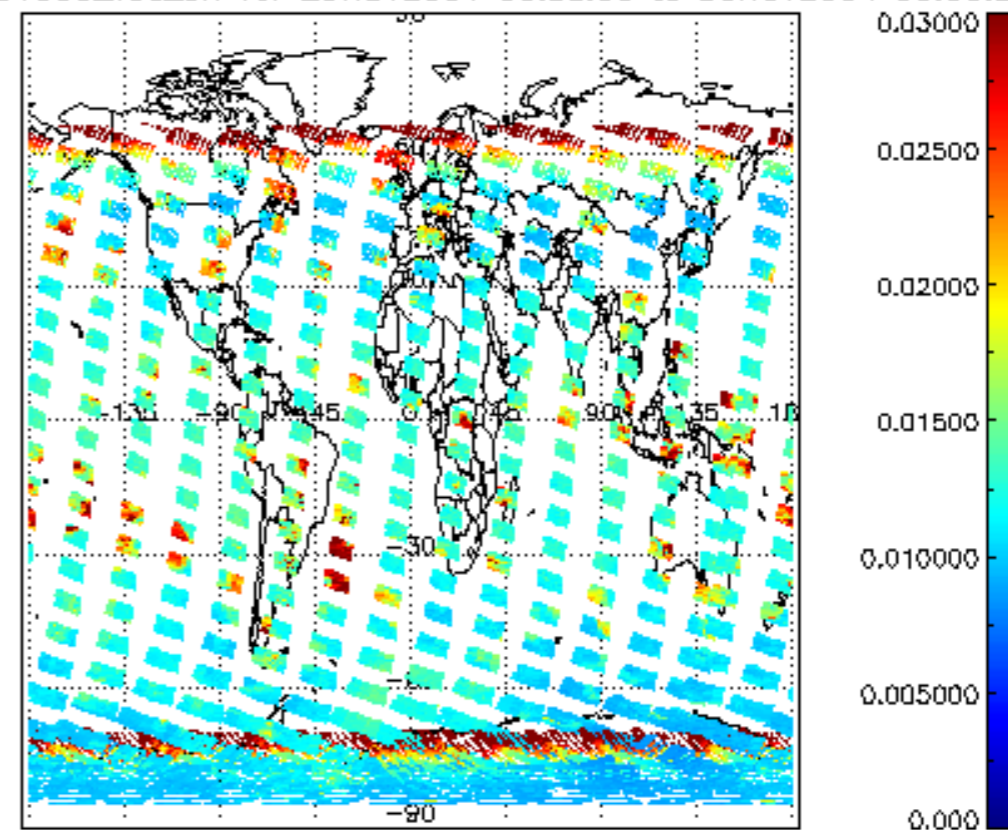




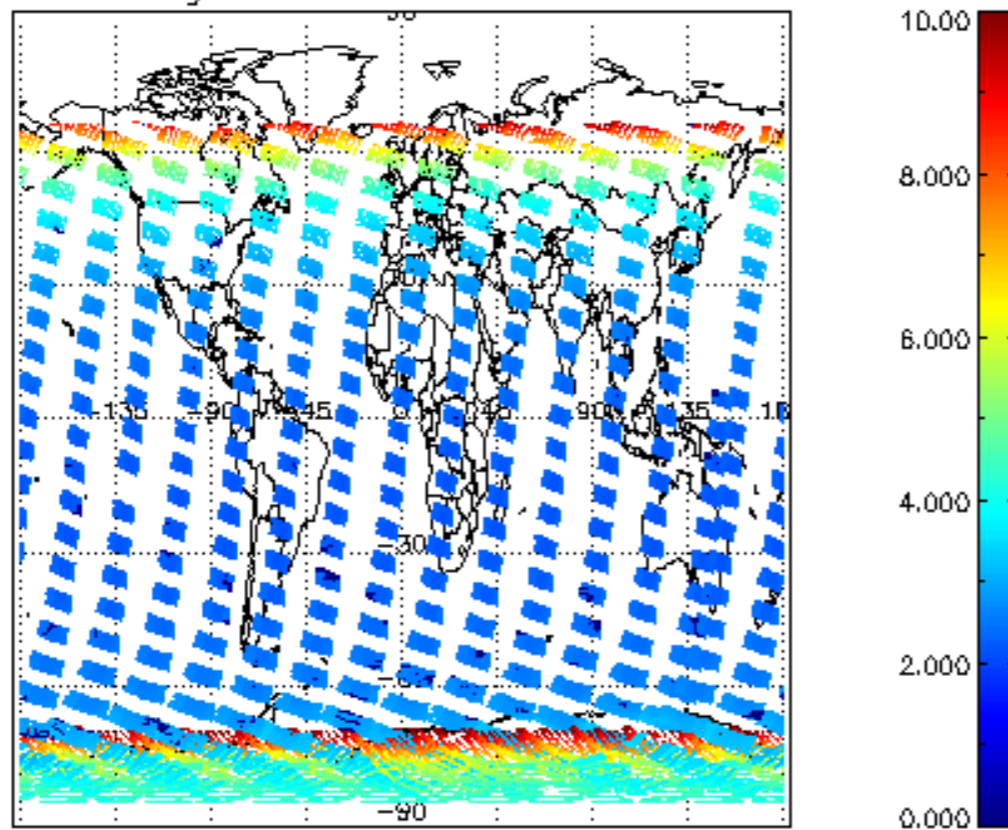
SCIOL2P_NADUV003_vcd for 29NOV2004 00:00:00 to 30NOV2004 00:00:00



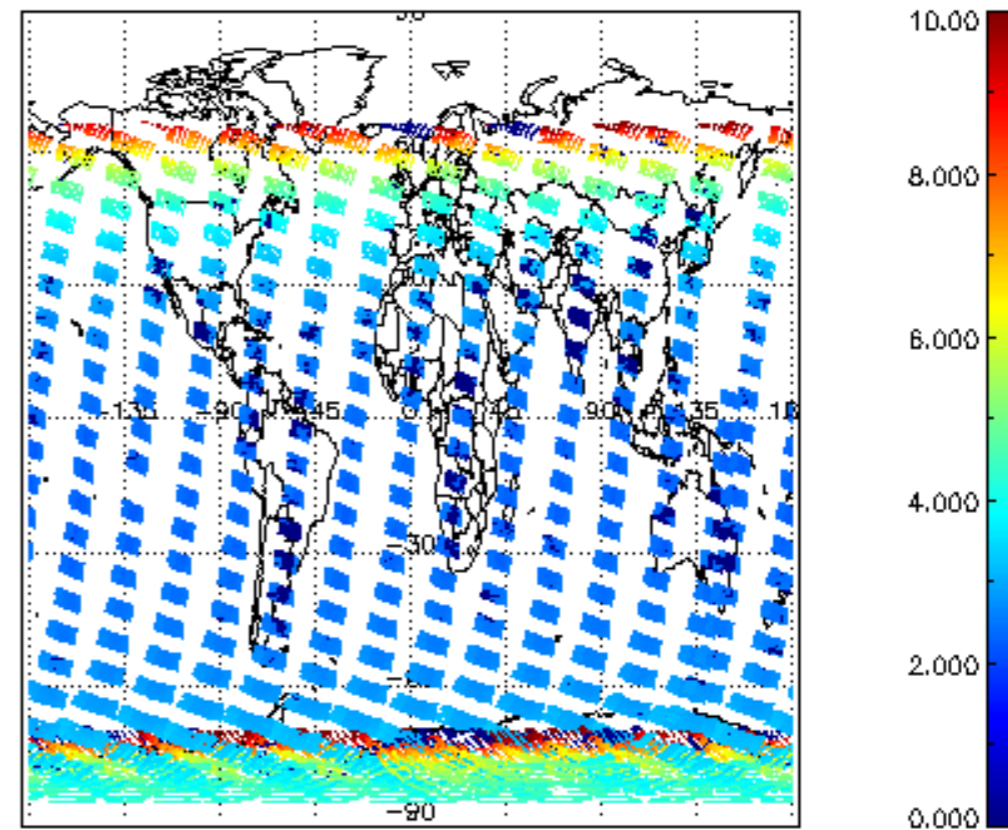
SCIOL2P_NADUV003_vcd_err for 29NOV2004 00:00:00 to 30NOV2004 00:00:00

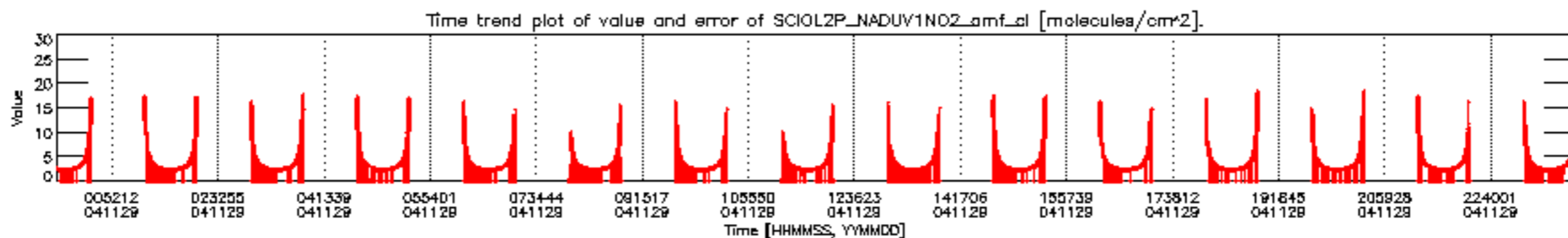
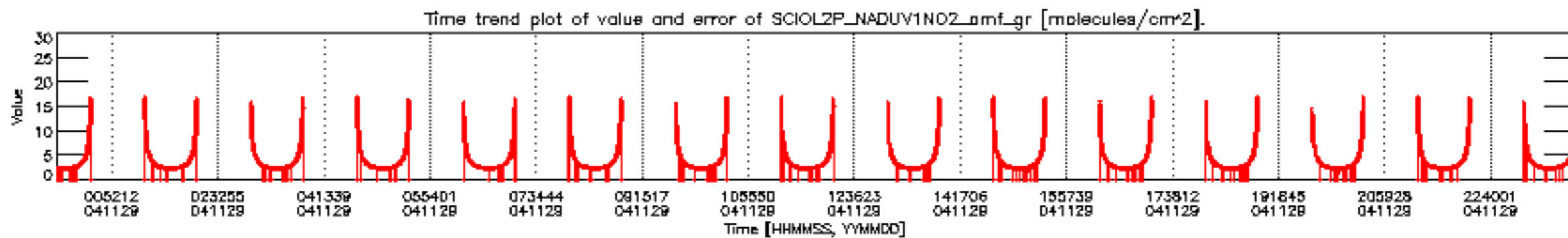
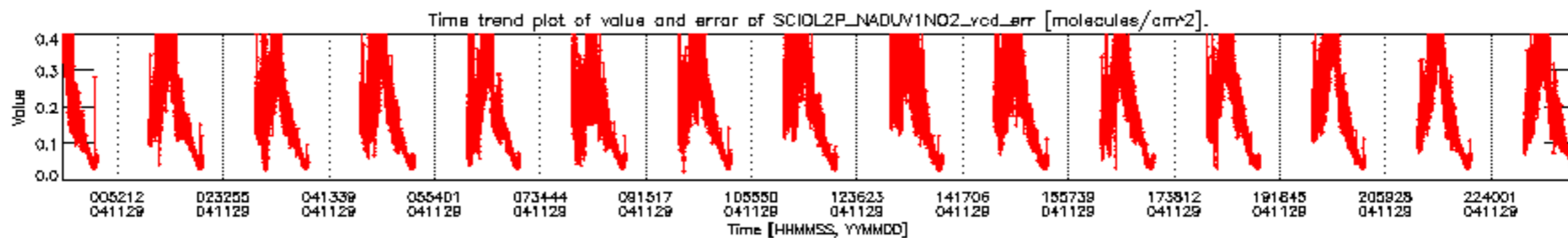
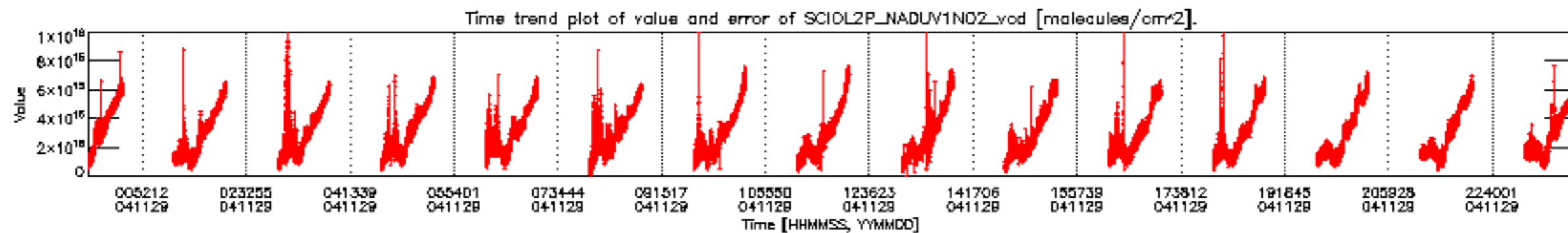


SCIOL2P_NADUV003_amf_gr for 29NOV2004 00:00:00 to 30NOV2004 00:00:00

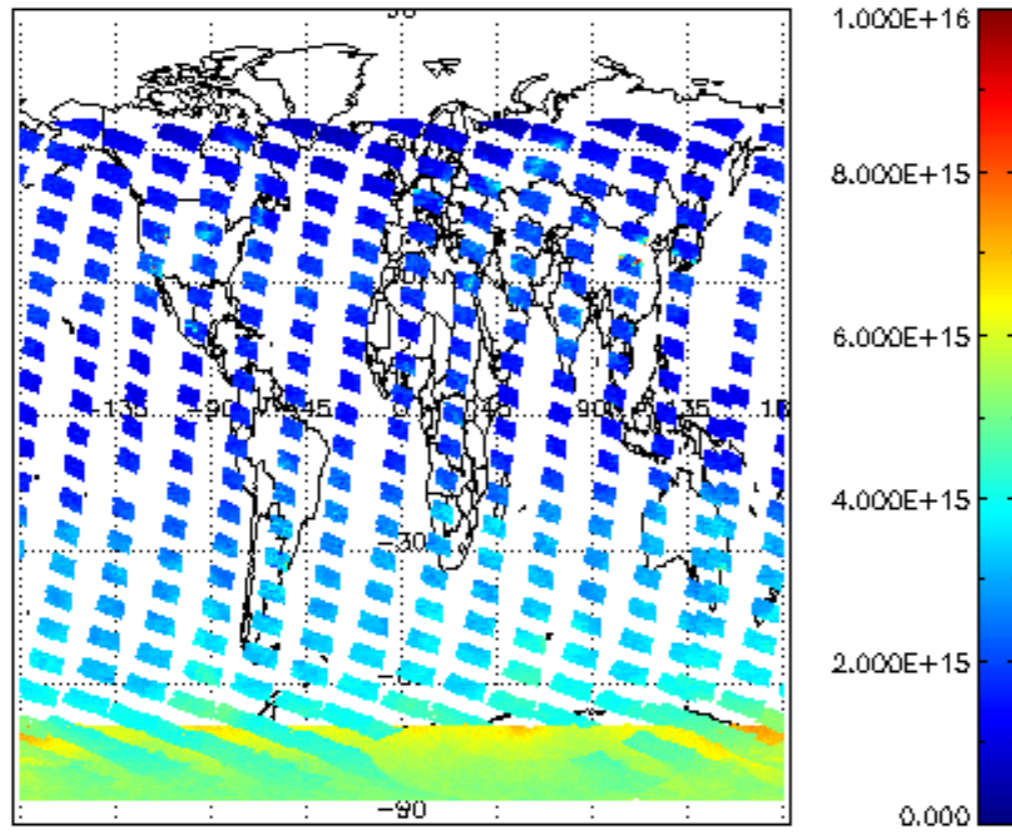


SCIOL2P_NADUV003_amf_cl for 29NOV2004 00:00:00 to 30NOV2004 00:00:00

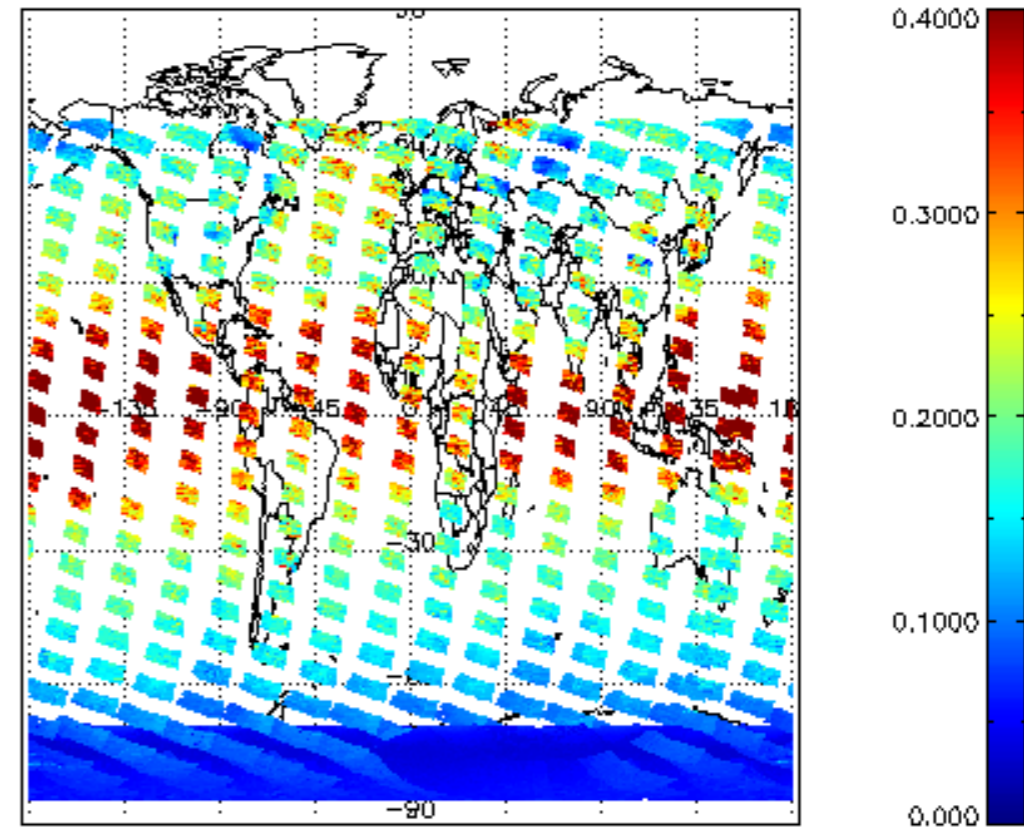




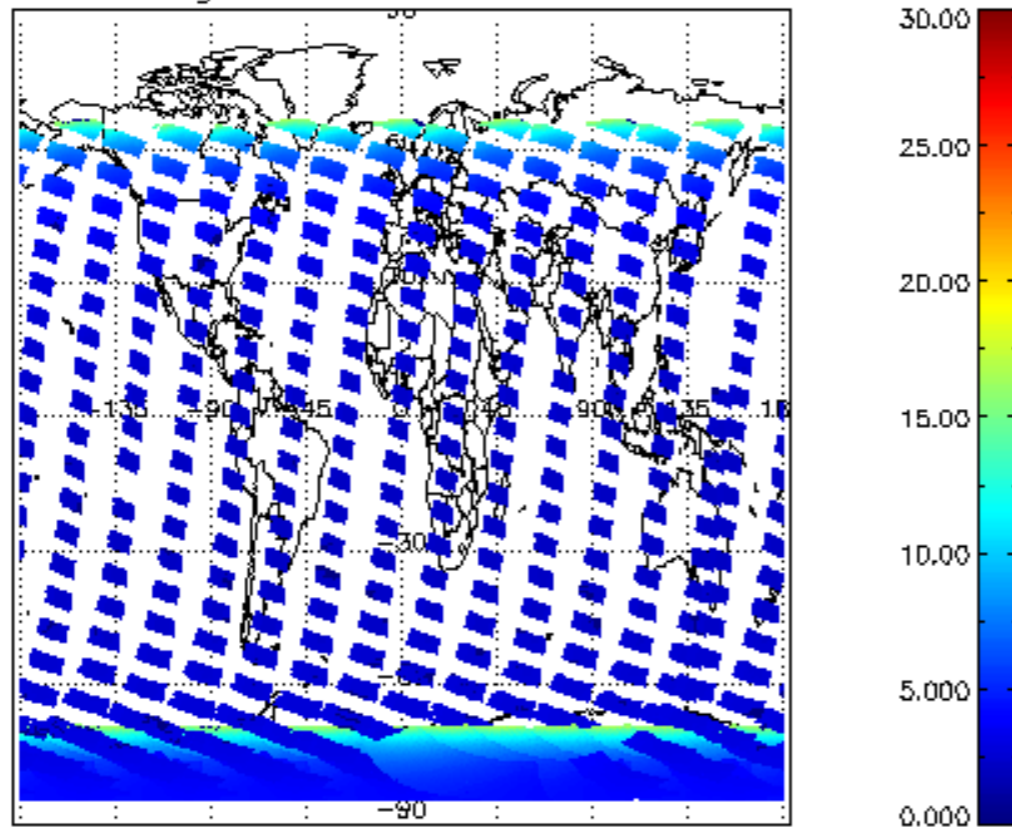
SCIOL2P_NADUV1NO2_vcd for 29NOV2004 00:00:00 to 30NOV2004 00:00:00



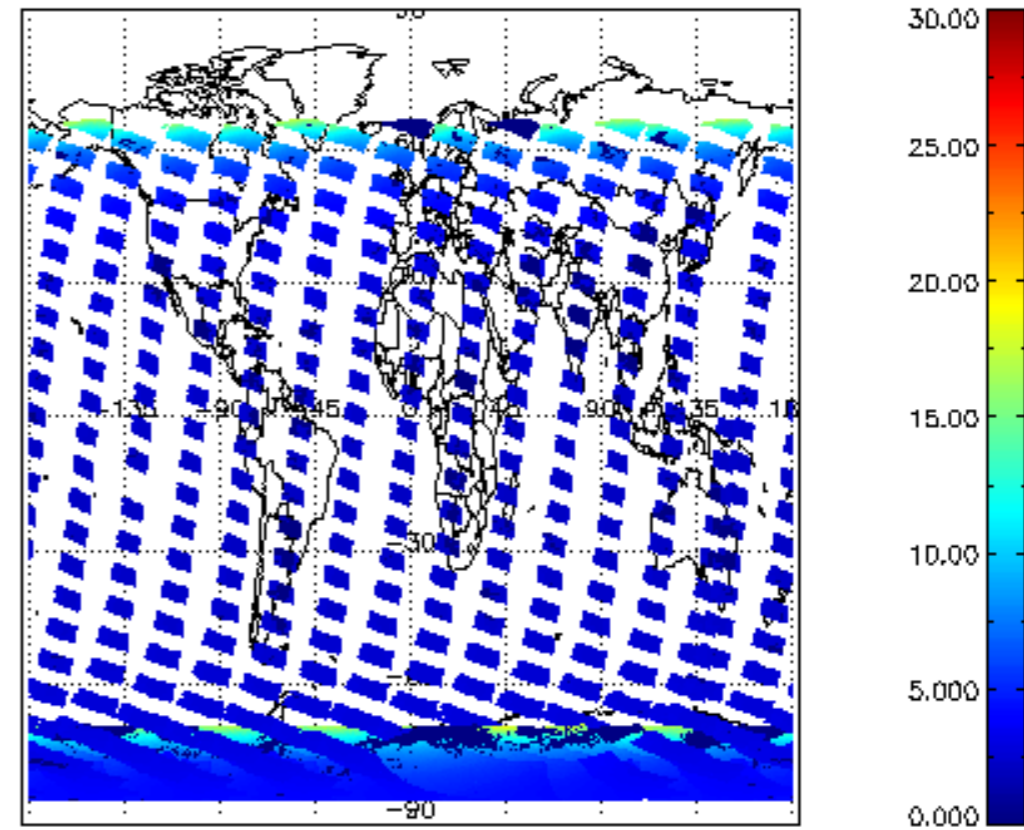
SCIOL2P_NADUV1NO2_vcd_err for 29NOV2004 00:00:00 to 30NOV2004 00:00:00



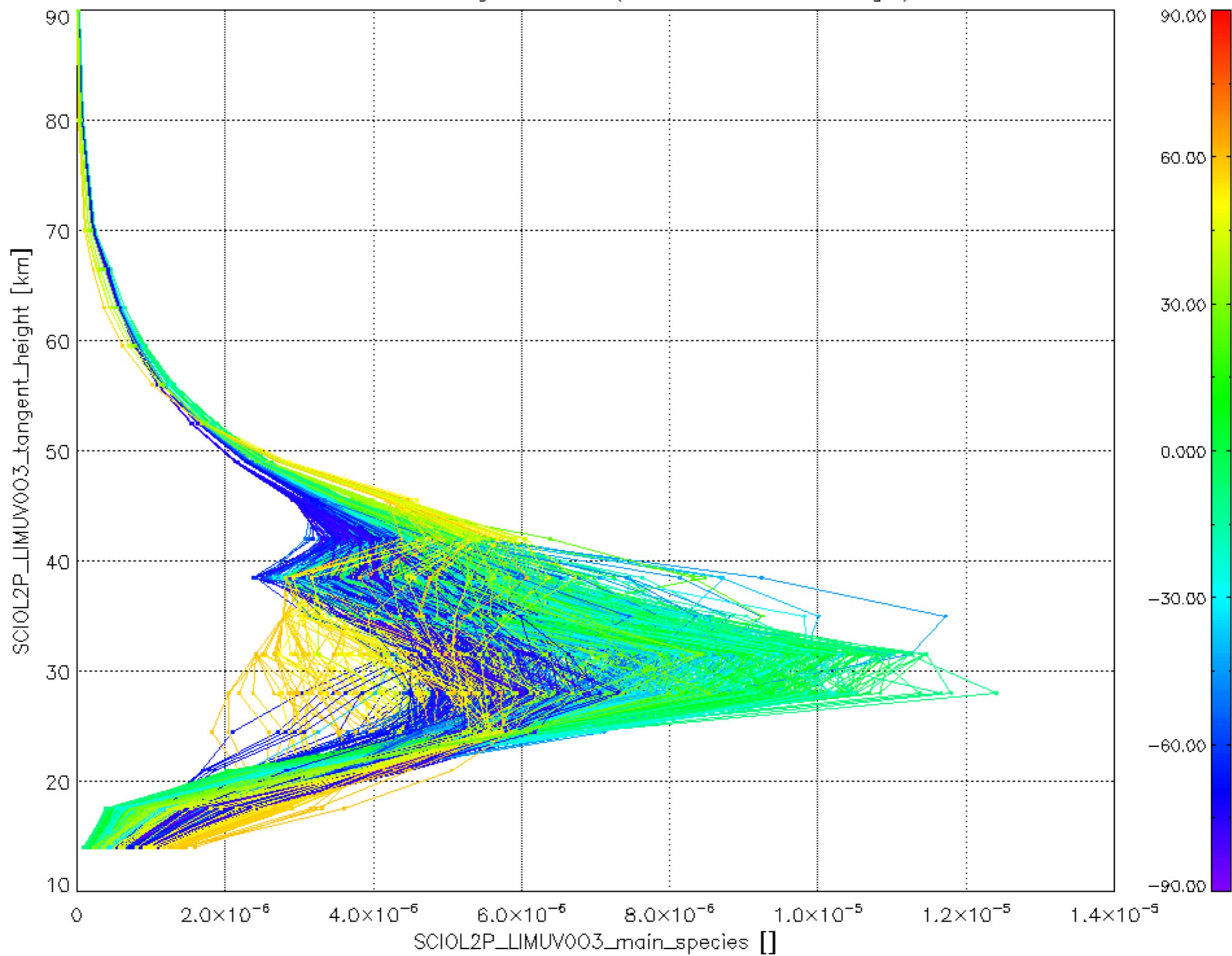
SCIOL2P_NADUV1NO2_amf_gr for 29NOV2004 00:00:00 to 30NOV2004 00:00:00



SCIOL2P_NADUV1NO2_amf_cl for 29NOV2004 00:00:00 to 30NOV2004 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).

