

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	23NOV2009 03:07:43
Data source version	SCIA-OL/3.01-R
Processing scope for products	05NOV2009 00:00:00 to 06NOV2009 00:00:00
Start time of first product within scope	04NOV2009 23:04:36
Stop time of last product within scope	06NOV2009 01:05:10
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__2PRDPA20091104_230436_000031452084_00030_40164_5183.N1	04NOV2009 23:04:36	04NOV2009 23:57:01	0	GOOD
1	SCI_OL__2PRDPA20091105_004620_000030202084_00031_40165_5184.N1	05NOV2009 00:46:20	05NOV2009 01:36:41	0	GOOD
2	SCI_OL__2PRDPA20091105_022152_000033812084_00032_40166_5185.N1	05NOV2009 02:21:52	05NOV2009 03:18:13	0	GOOD
3	SCI_OL__2PRDPA20091105_040228_000033252084_00033_40167_5186.N1	05NOV2009 04:02:28	05NOV2009 04:57:54	0	GOOD
4	SCI_OL__2PRDPA20091105_054305_000033812084_00034_40168_5187.N1	05NOV2009 05:43:05	05NOV2009 06:39:26	0	GOOD
5	SCI_OL__2PRDPA20091105_072341_000033252084_00035_40169_5188.N1	05NOV2009 07:23:41	05NOV2009 08:19:06	0	GOOD
6	SCI_OL__2PRDPA20091105_104453_000033252084_00037_40171_5189.N1	05NOV2009 10:44:53	05NOV2009 11:40:19	0	GOOD
7	SCI_OL__2PRDPA20091105_122530_000033812084_00038_40172_5190.N1	05NOV2009 12:25:30	05NOV2009 13:21:51	0	GOOD
8	SCI_OL__2PRDPA20091105_140606_000033252084_00039_40173_5191.N1	05NOV2009 14:06:06	05NOV2009 15:01:32	0	GOOD
9	SCI_OL__2PRDPA20091105_154642_000033812084_00040_40174_5192.N1	05NOV2009 15:46:42	05NOV2009 16:43:04	0	GOOD
10	SCI_OL__2PRDPA20091105_172711_000033732084_00041_40175_5193.N1	05NOV2009 17:27:11	05NOV2009 18:23:24	0	GOOD
11	SCI_OL__2PRDPA20091105_190816_000033122084_00042_40176_5194.N1	05NOV2009 19:08:16	05NOV2009 20:03:28	0	GOOD
12	SCI_OL__2PRDPA20091105_204832_000033252084_00043_40177_5195.N1	05NOV2009 20:48:32	05NOV2009 21:43:57	0	GOOD
13	SCI_OL__2PRDPA20091105_222908_000033812084_00044_40178_5196.N1	05NOV2009 22:29:08	05NOV2009 23:25:29	0	GOOD
14	SCI_OL__2PRDPA20091106_000944_000033252084_00045_40179_5197.N1	06NOV2009 00:09:44	06NOV2009 01:05:10	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: 135720

Total number of cloud data DSRs with good quality flag (=0): 135720 (100.0 %)

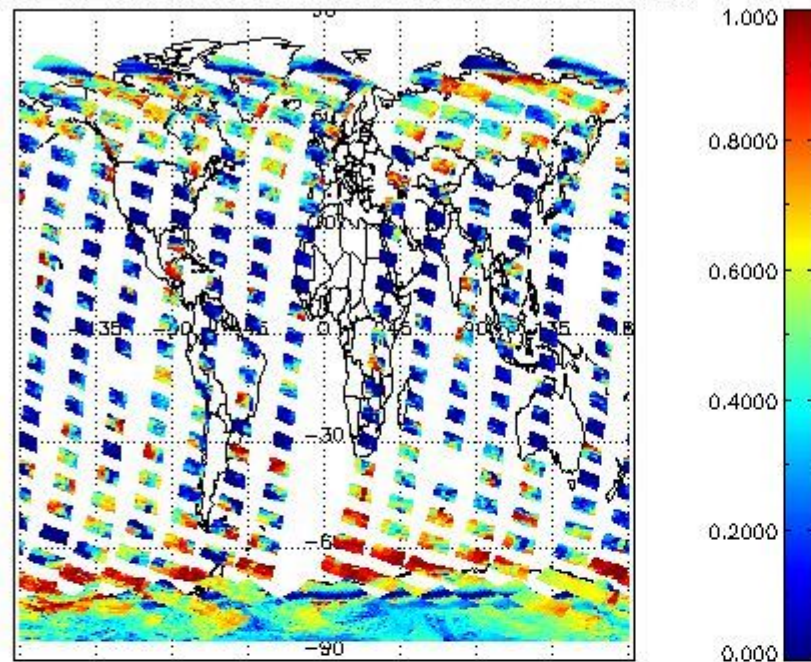
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	135720	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	135720	0.16954	0.12500	0.12500	0.25000	0.059864	s
CL_FRAC	135720	0.37867	0.36680	0.0000	1.0000	0.27827	-
CL_FRAC_ERR	135720	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	135720	5.4253	4.0000	4.0000	8.0000	1.9157	
PMD_READ_CL[0]	135720	0.15845	0.0000	0.0000	8.0000	0.89139	-
PMD_READ_CL[1]	135720	1.1963	0.0000	0.0000	8.0000	2.4385	-
CL_TOP_HEIGHT	112088	4.3623	3.0641	0.0000	17.000	4.3617	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	112088	52.242	42.568	0.0000	101.00	40.832	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	135720	11100000	11100000	11100000	11100000	0.0000	flags
CLOUD_FLAGS	135720	11001100	11000100	11000000	11100000	3428.5	flags
AERO_ABSO_IND	135720	4.0355	4.6378	0.0000	17.892	2.7648	
AERO_IND_DIAG	135720	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	135720	01010110	00000000	00000000	11000000	24465.	flags

Time and geolocation plots:

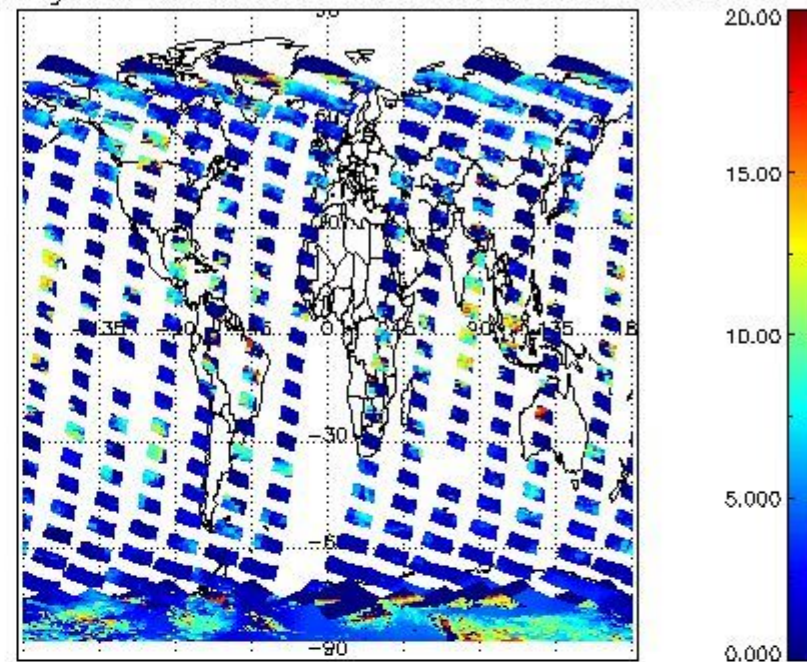
Plots are available for the following parameters:

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

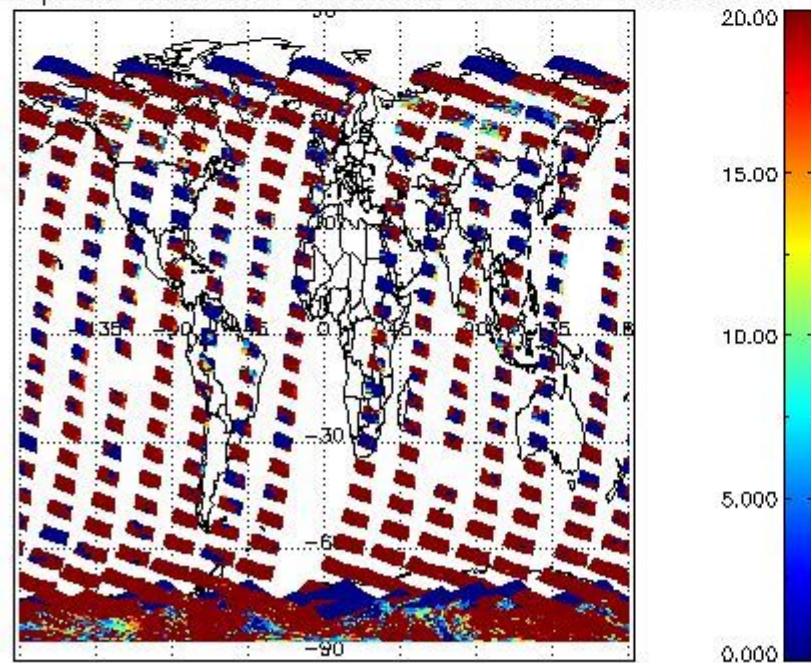
cLfrac for 05NOV2009 00:00:00 to 06NOV2009 00:00:00



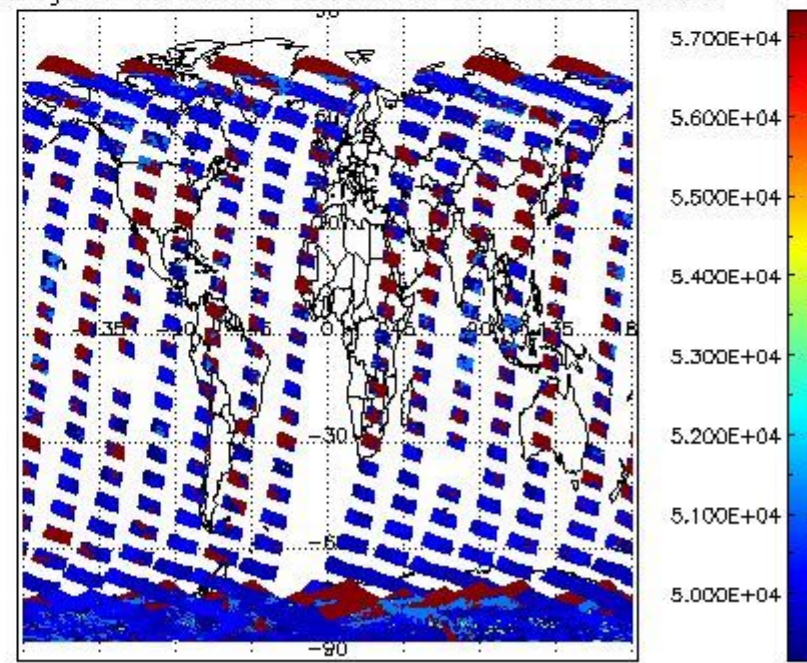
cL_top_height for 05NOV2009 00:00:00 to 06NOV2009 00:00:00



cLopt_depth for 05NOV2009 00:00:00 to 06NOV2009 00:00:00



cloud_flags for 05NOV2009 00:00:00 to 06NOV2009 00:00:00



2.2.2 Nadir

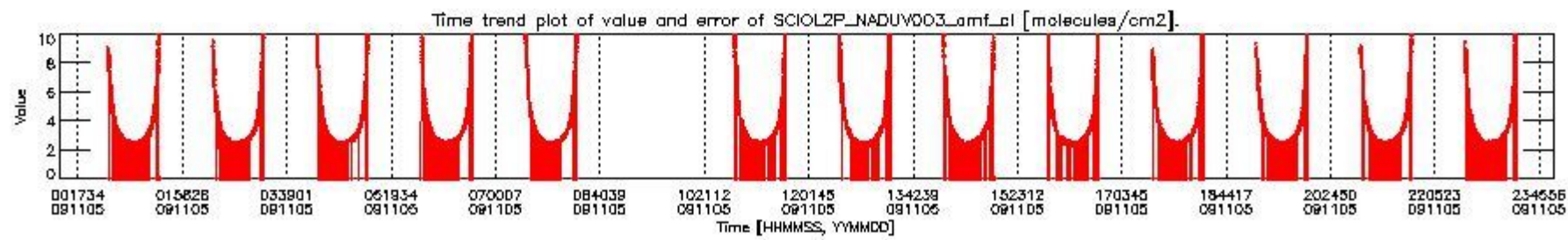
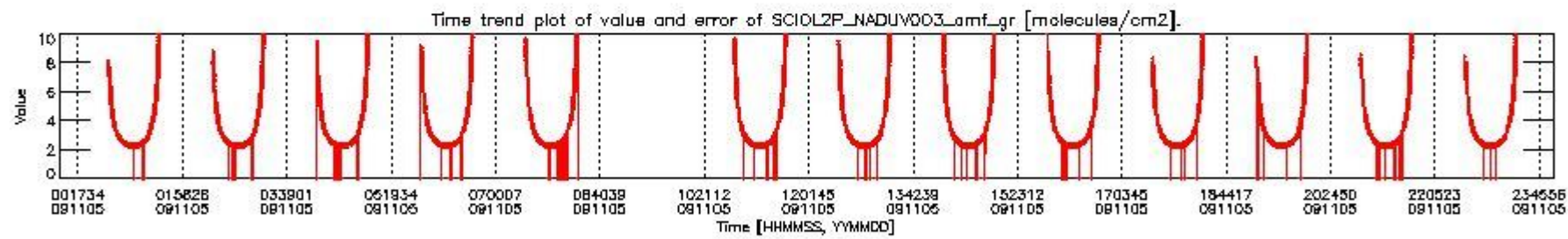
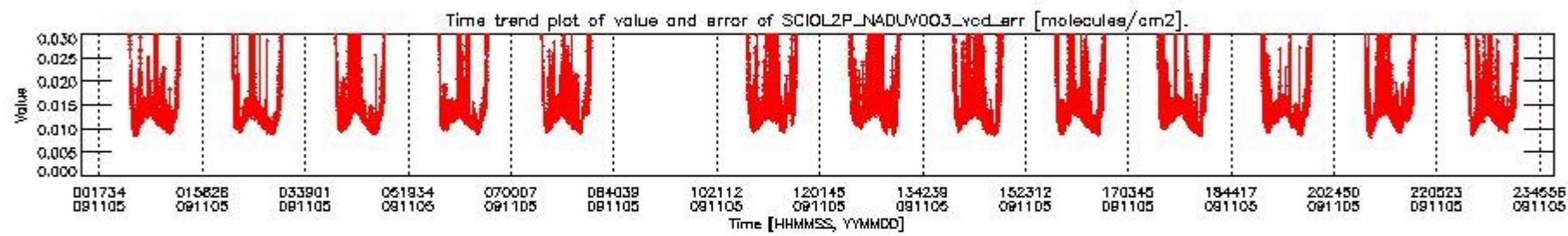
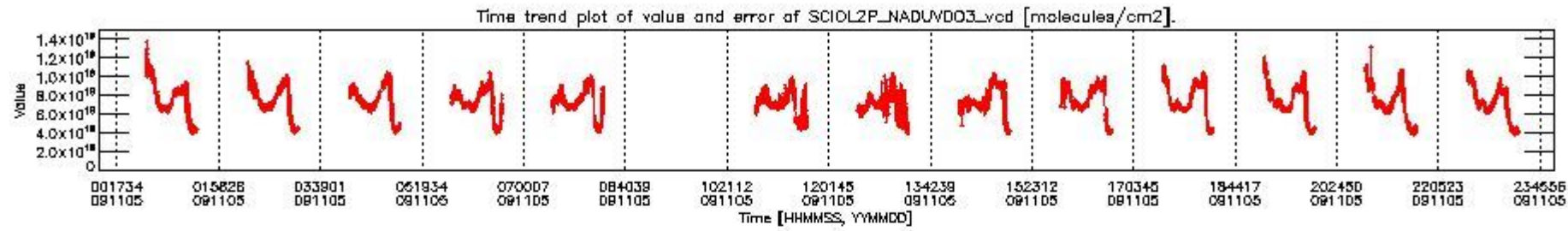
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

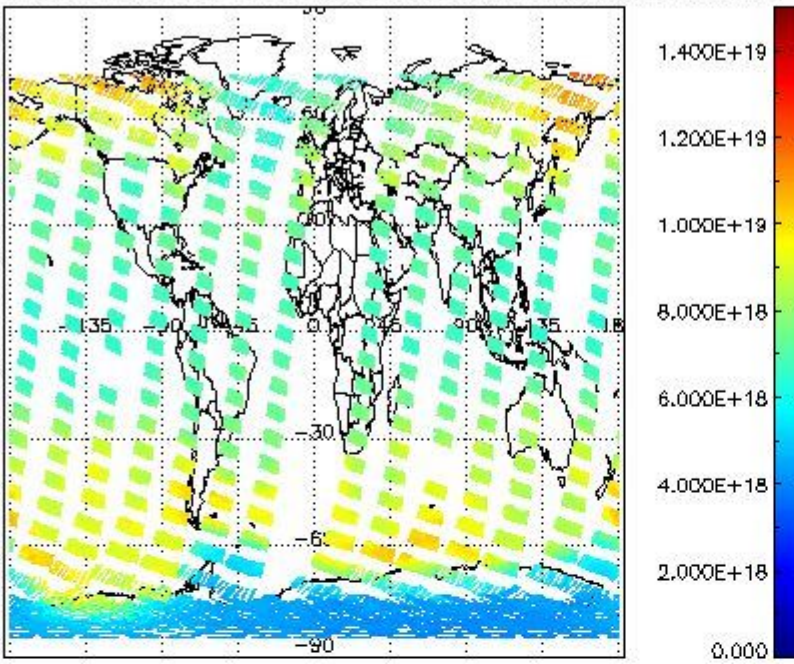
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

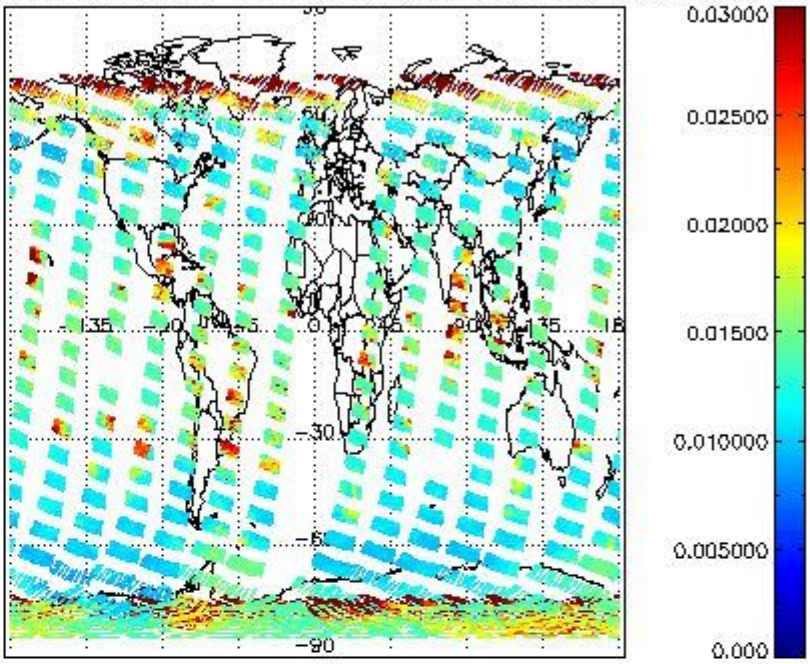
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



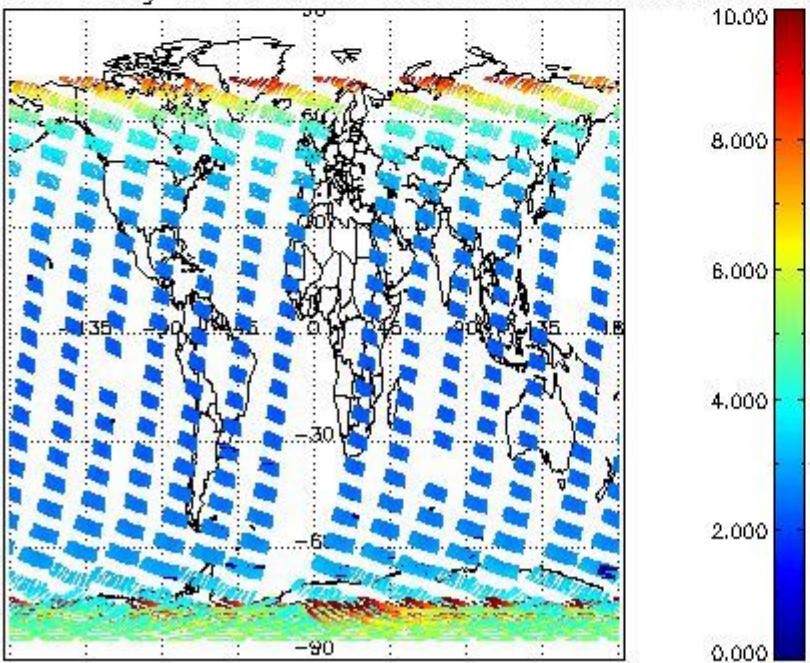
SCIOL2P_NADUV003_vcd for 05NOV2009 00:00:00 to 06NOV2009 00:00:00



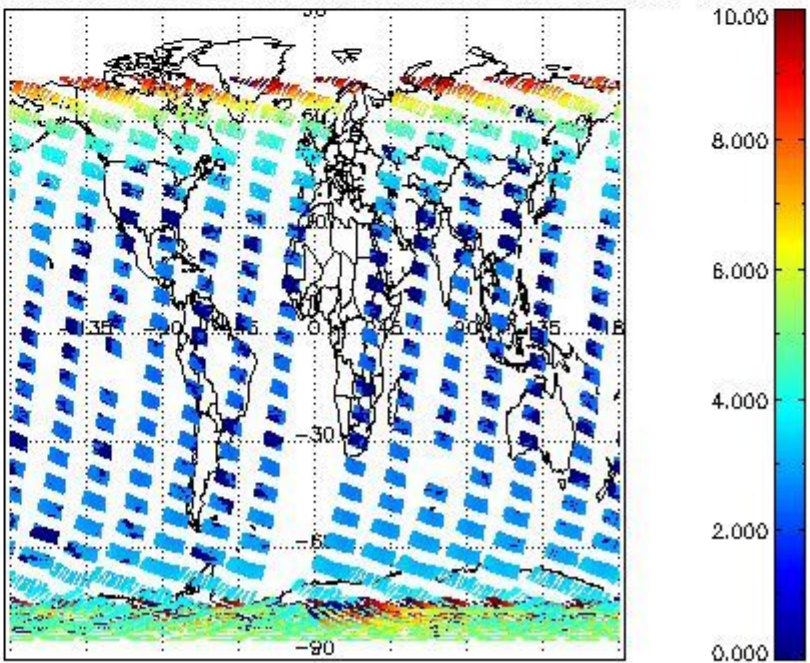
SCIOL2P_NADUV003_vcd_err for 05NOV2009 00:00:00 to 06NOV2009 00:00:00

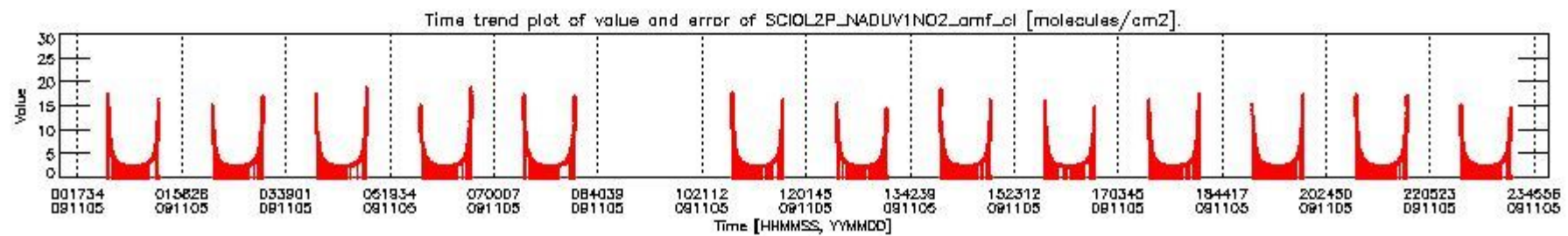
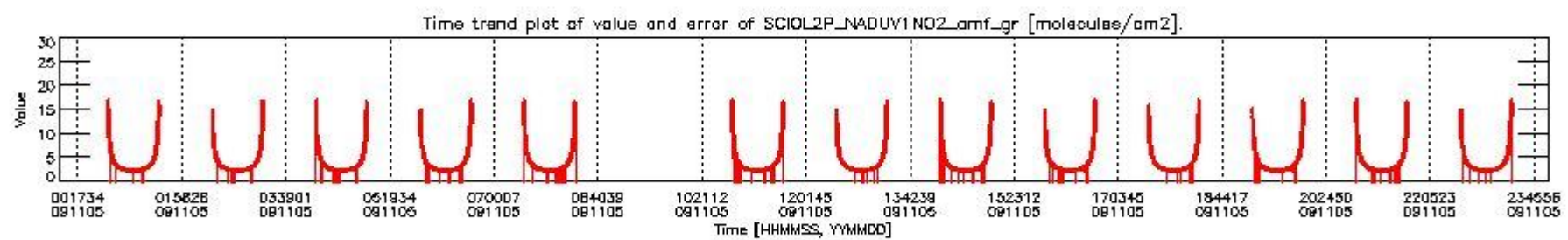
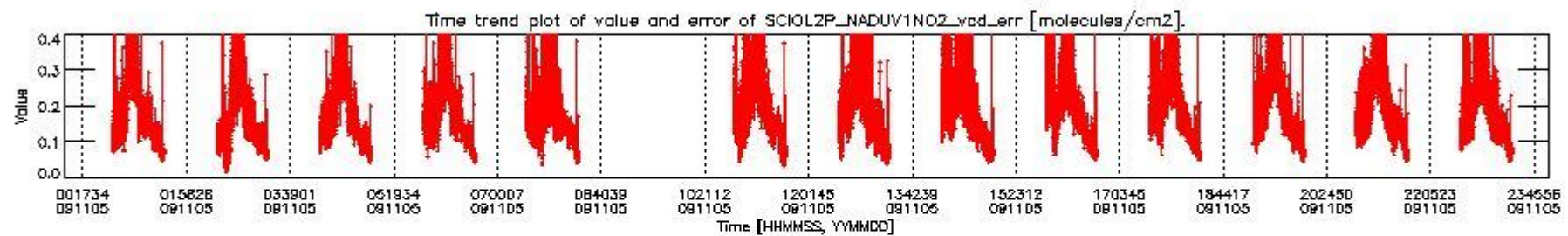
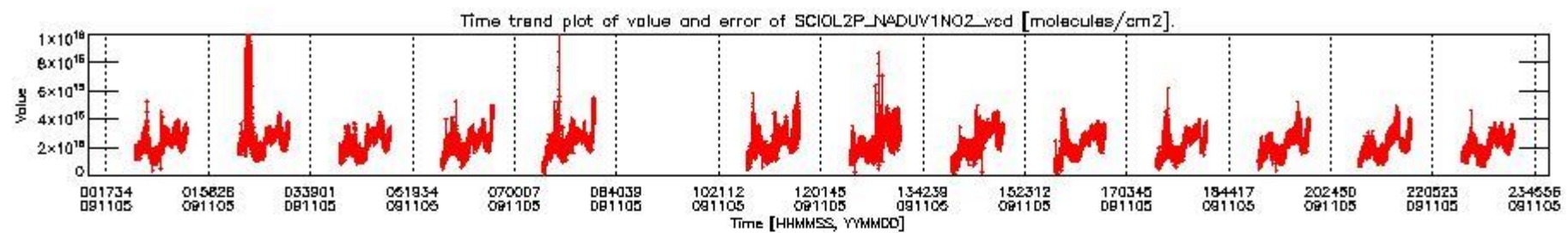


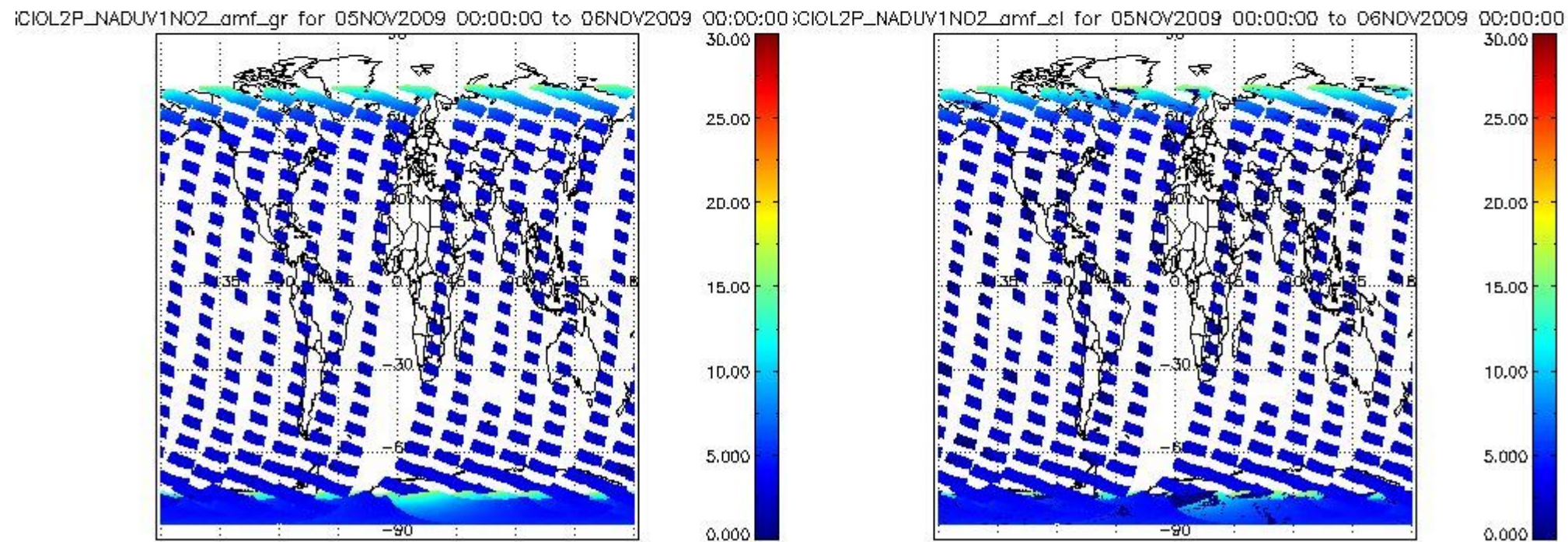
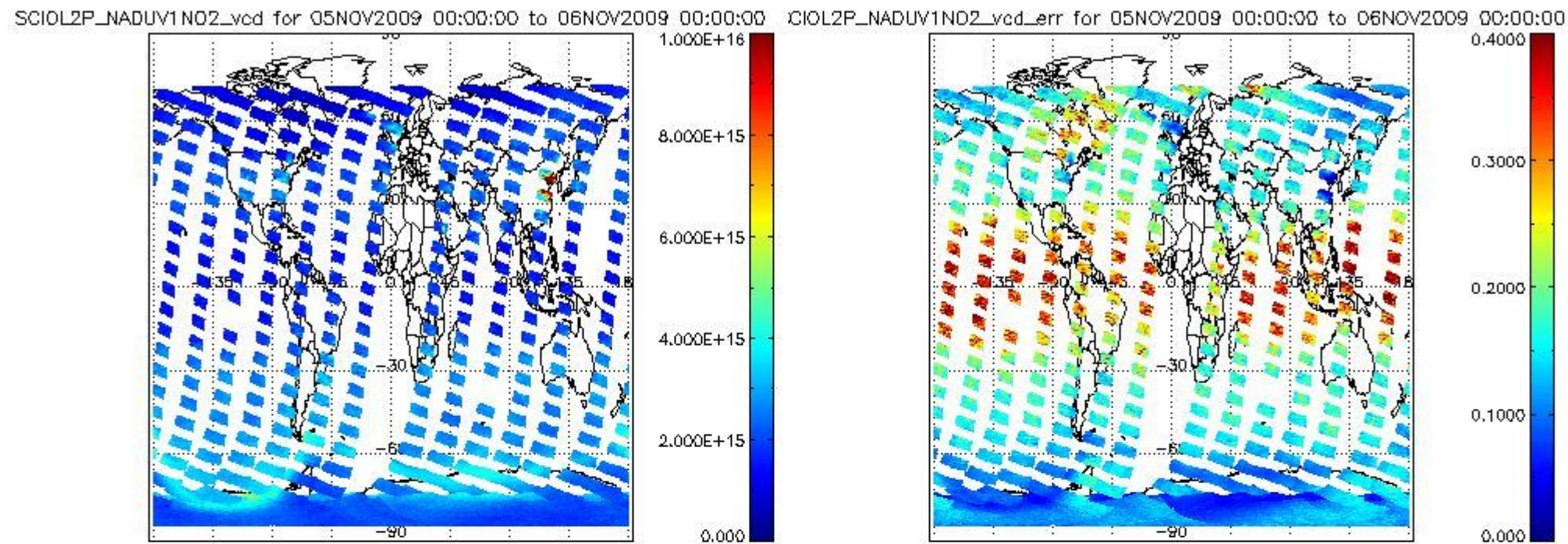
SCIOL2P_NADUV003_amf_gr for 05NOV2009 00:00:00 to 06NOV2009 00:00:00



SCIOL2P_NADUV003_amf_cl for 05NOV2009 00:00:00 to 06NOV2009 00:00:00







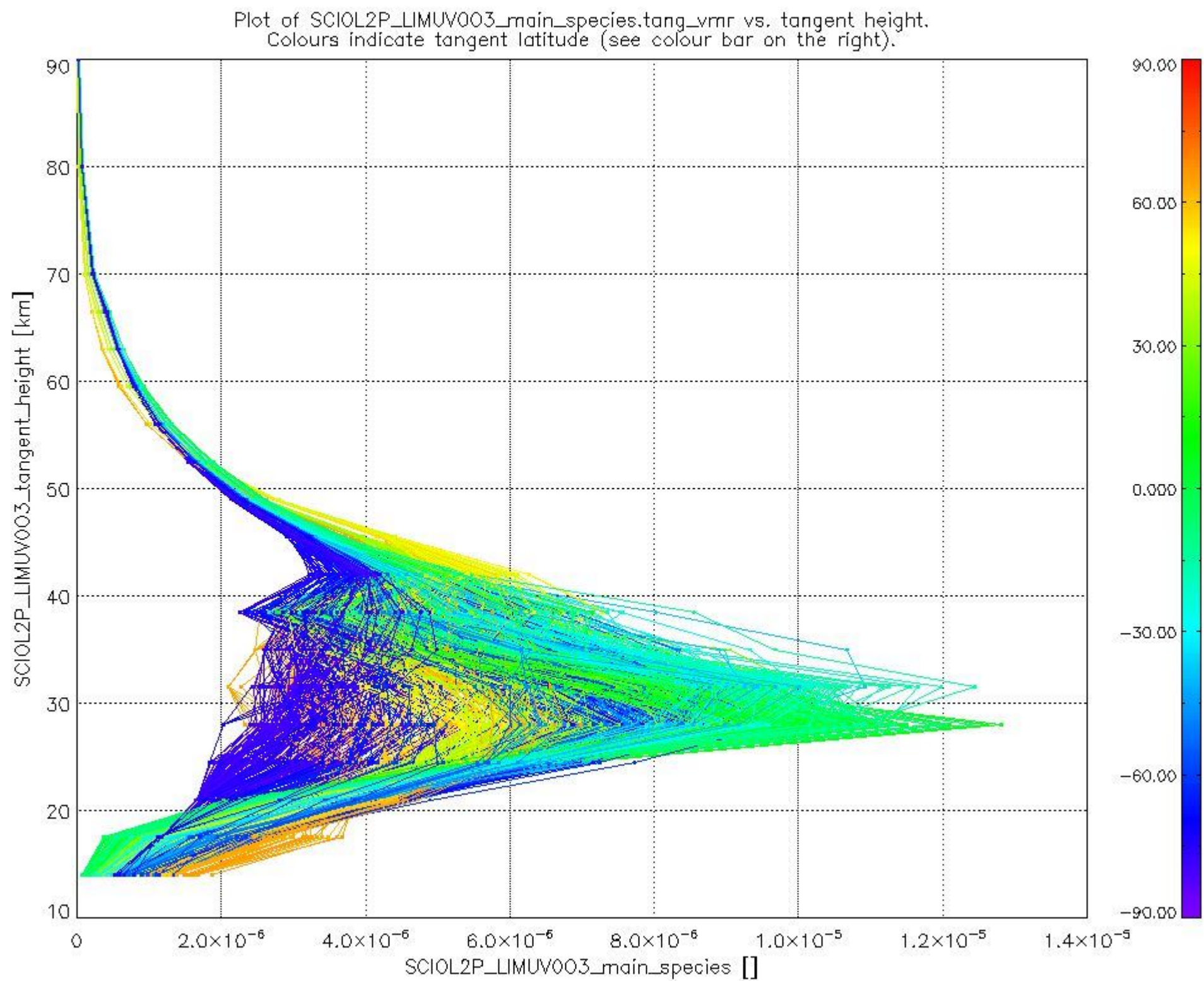
2.2.3 Limb

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

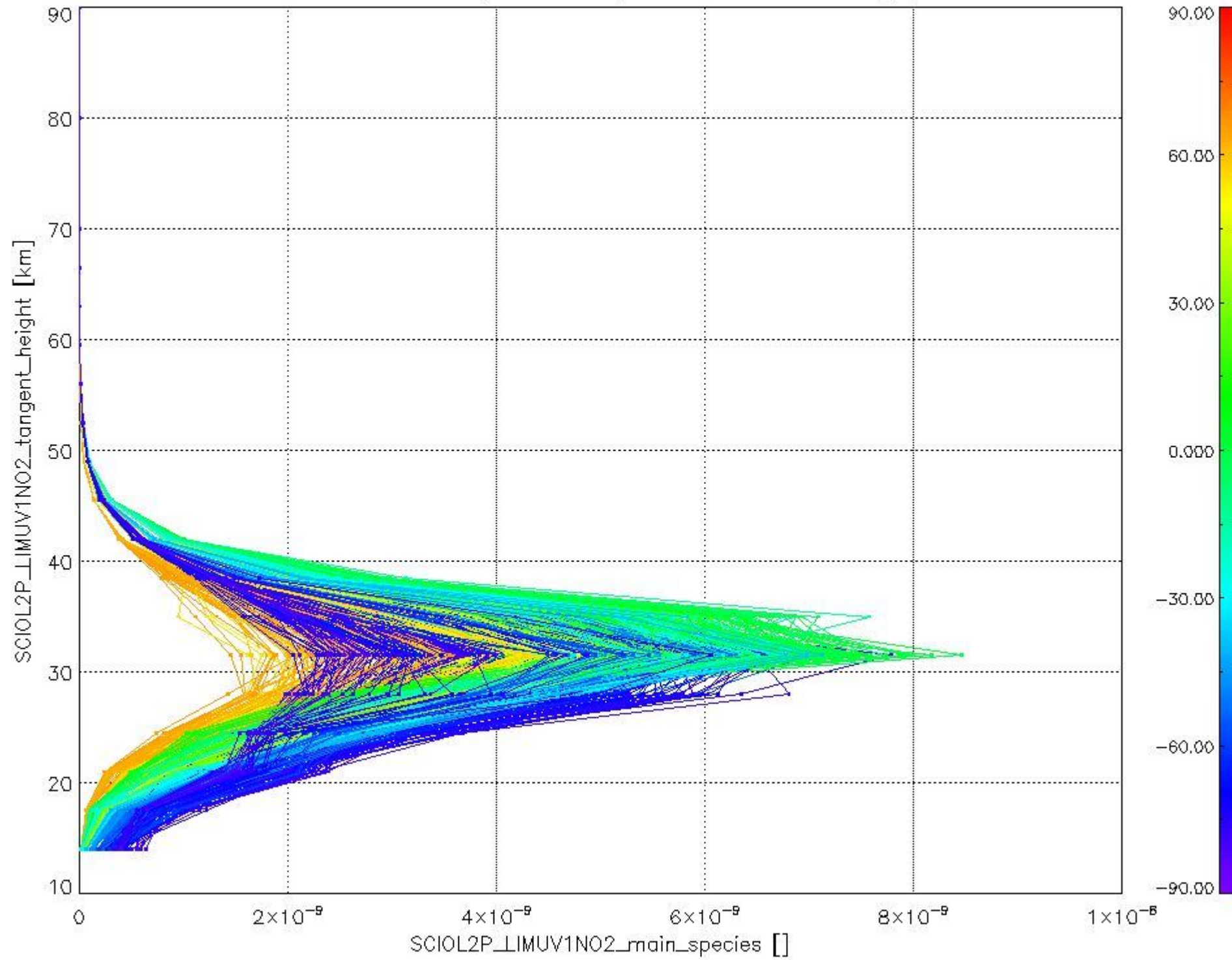
The following data items are currently included into this section:

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.



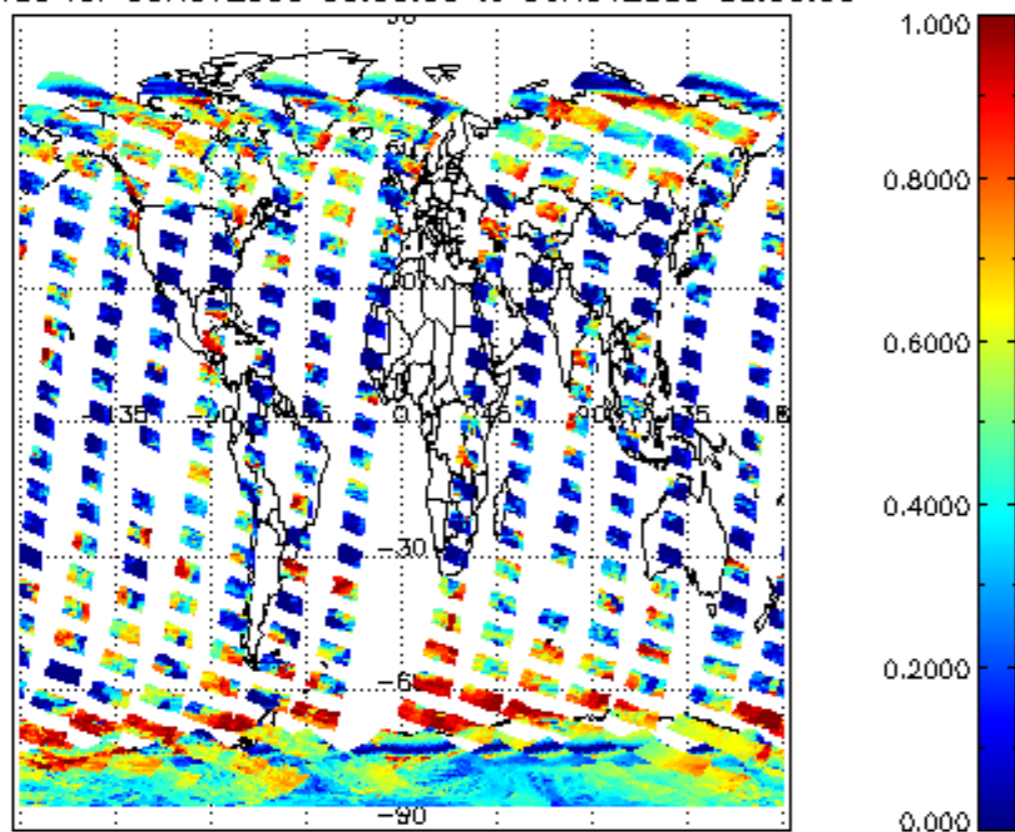
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



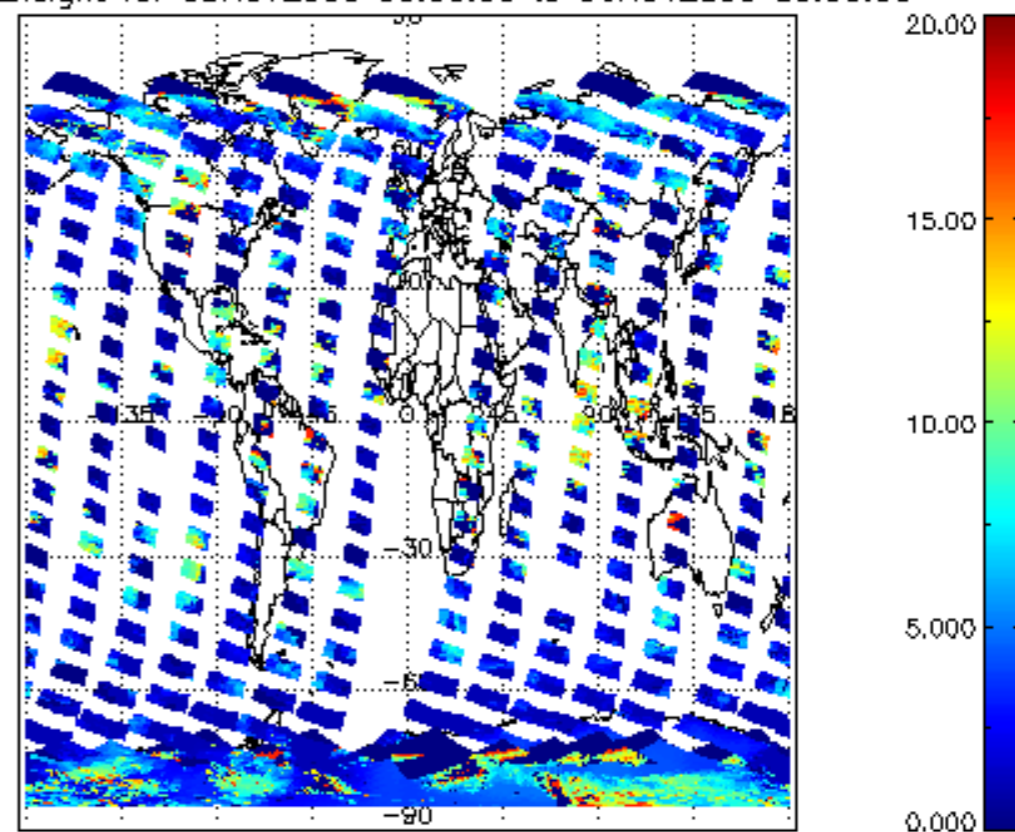
2.3 ADF monitoring

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

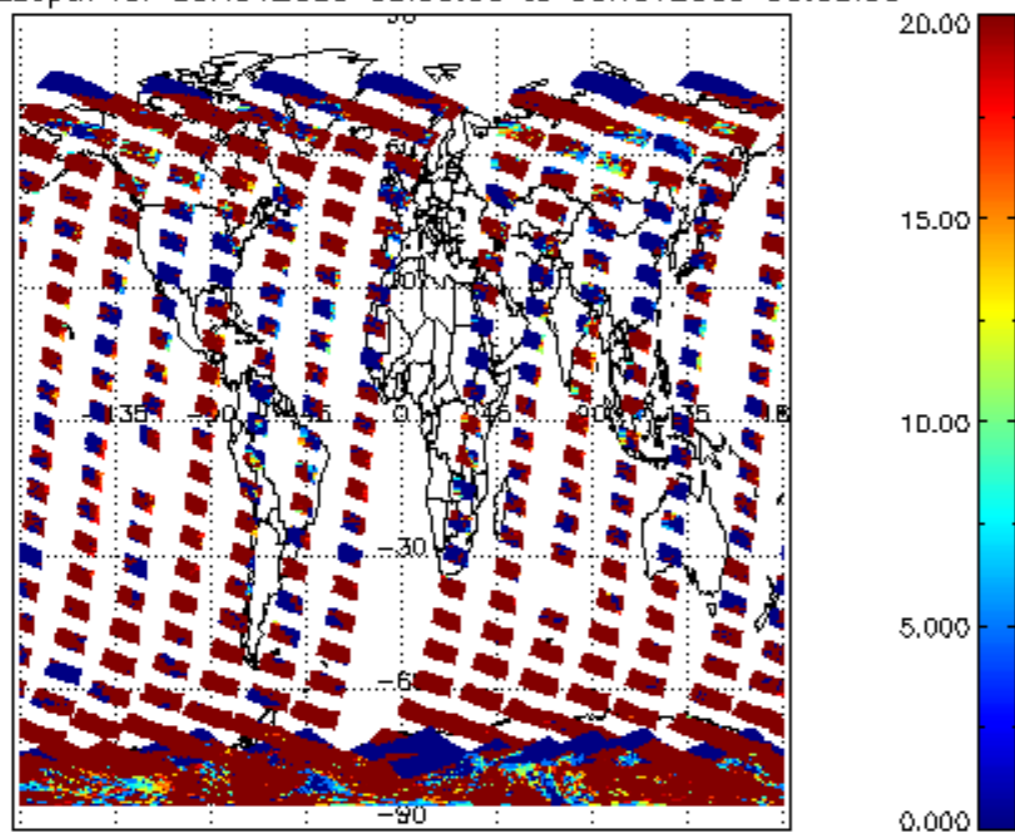
cLfrac for 05NOV2009 00:00:00 to 06NOV2009 00:00:00



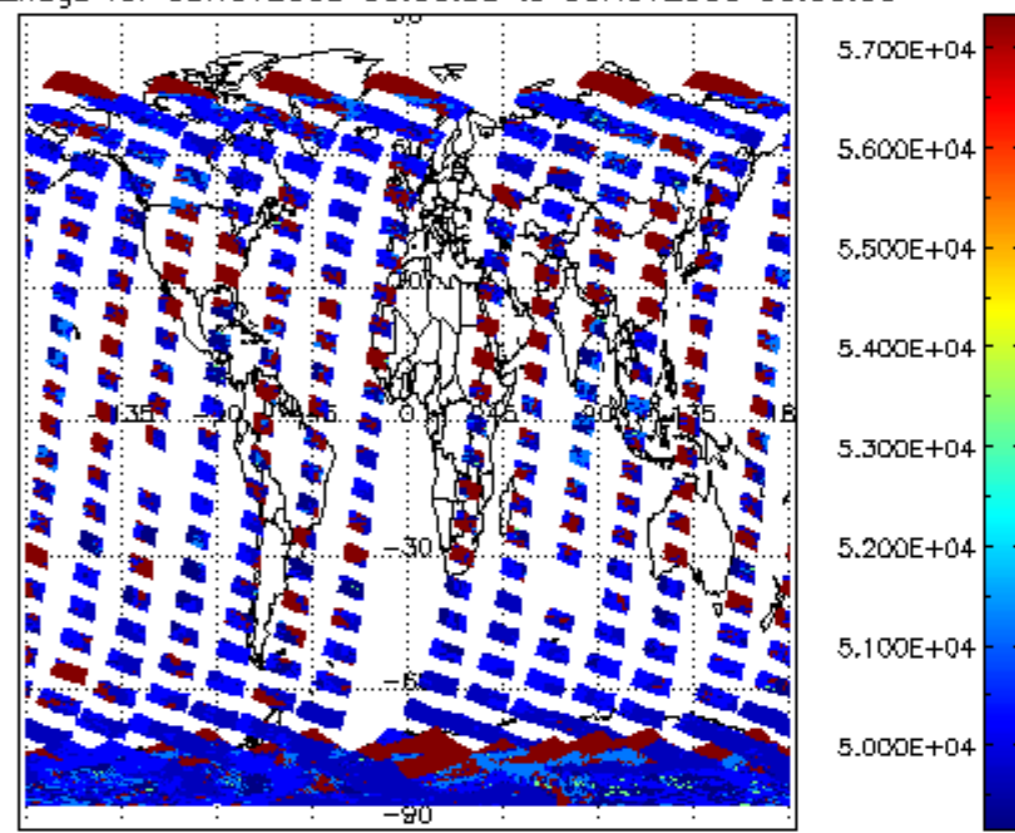
cL_top_height for 05NOV2009 00:00:00 to 06NOV2009 00:00:00

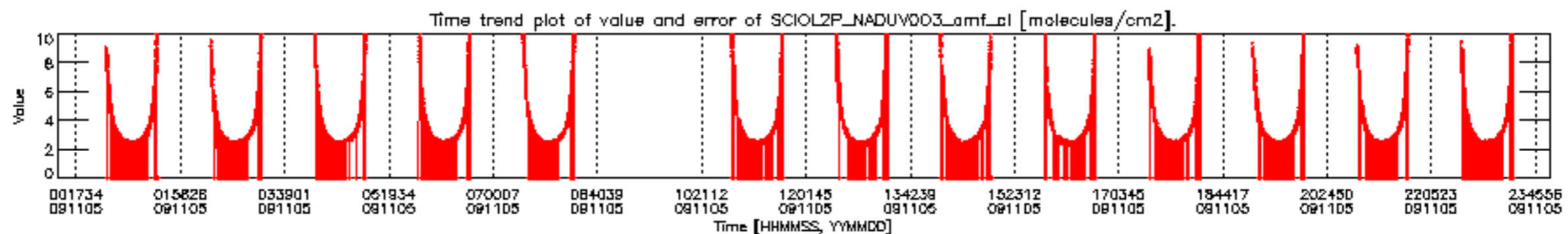
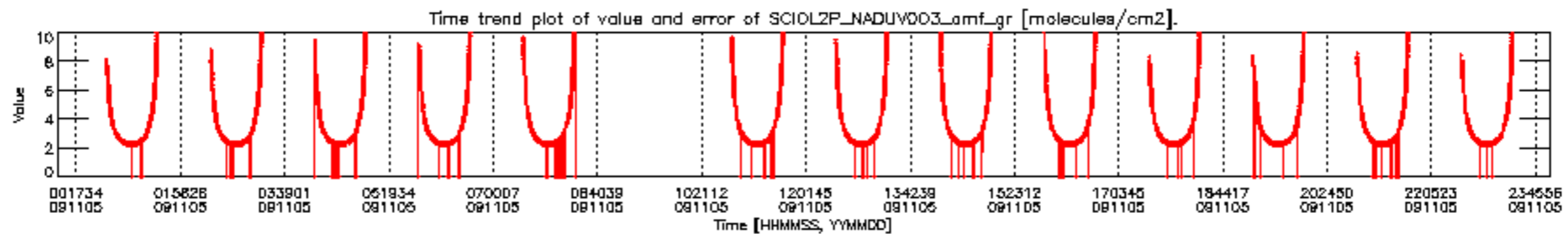
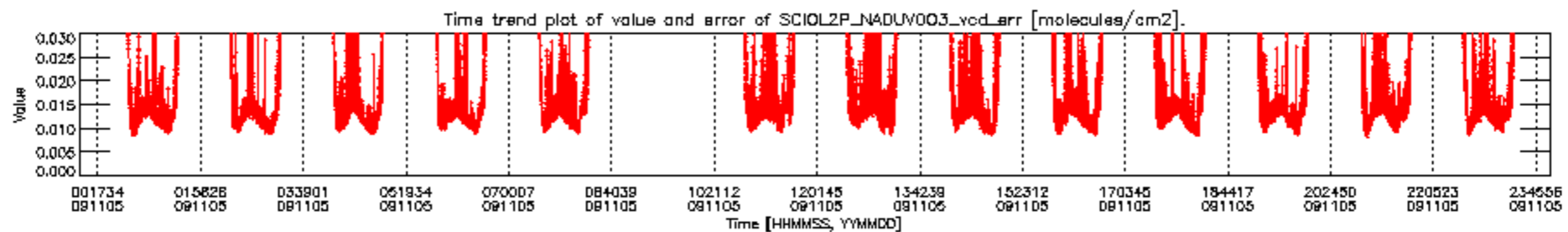
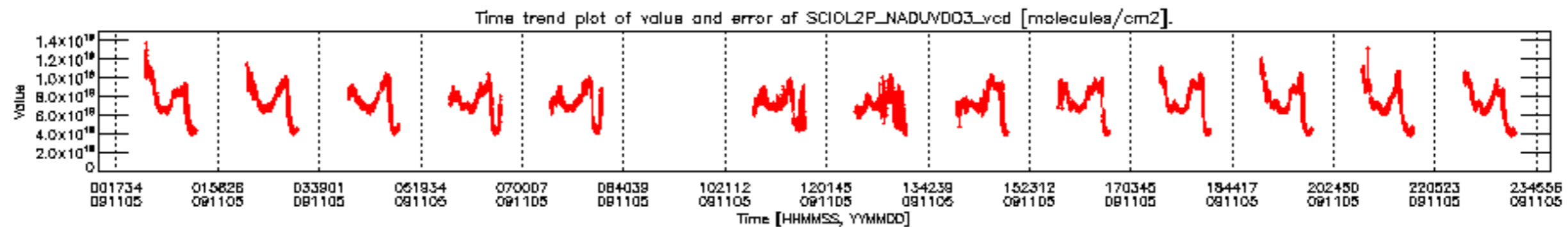


cL_opt_depth for 05NOV2009 00:00:00 to 06NOV2009 00:00:00

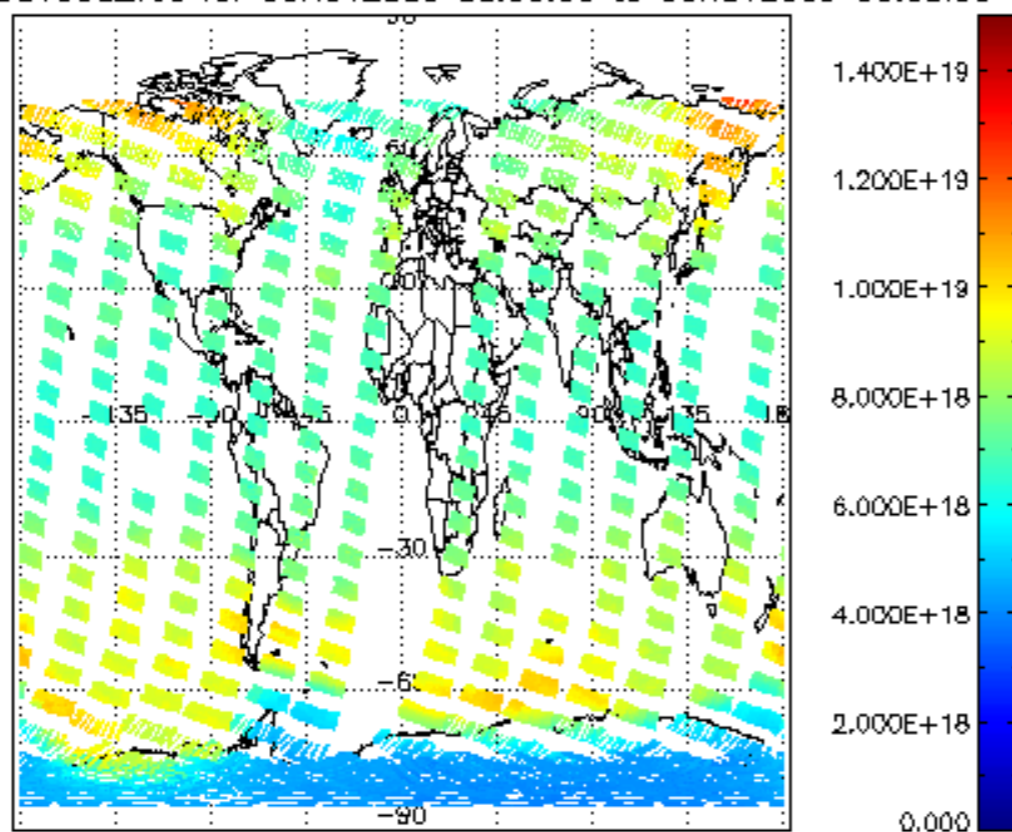


cloud_flags for 05NOV2009 00:00:00 to 06NOV2009 00:00:00

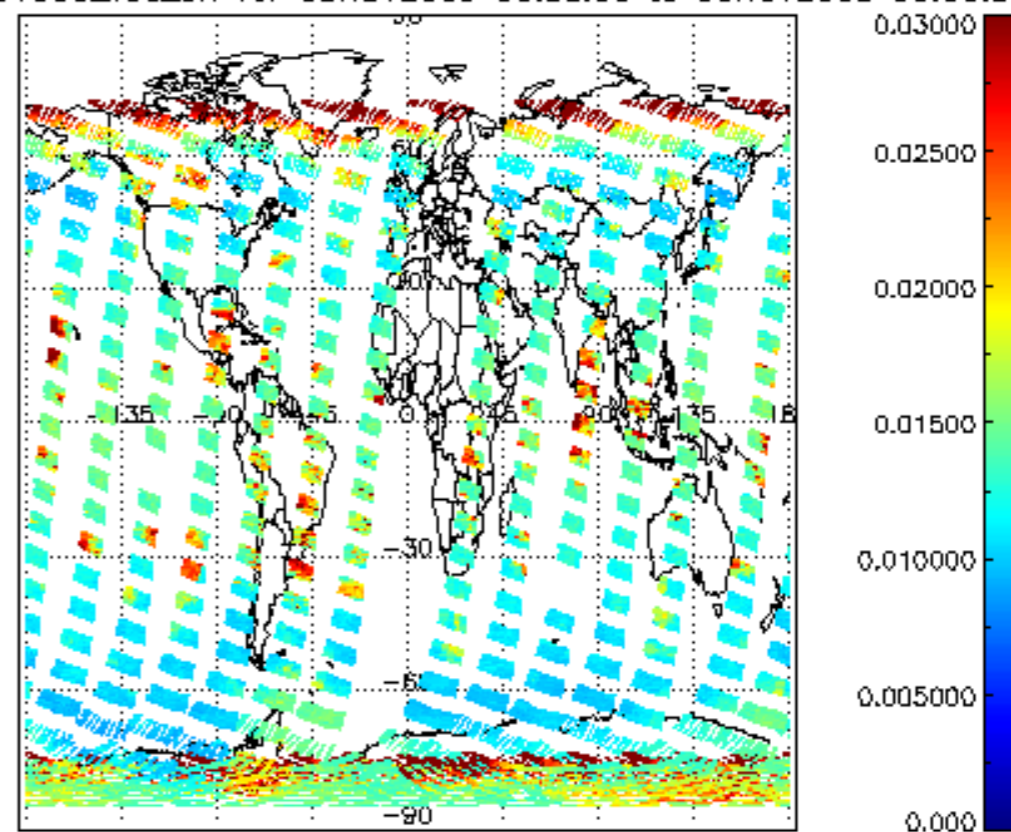




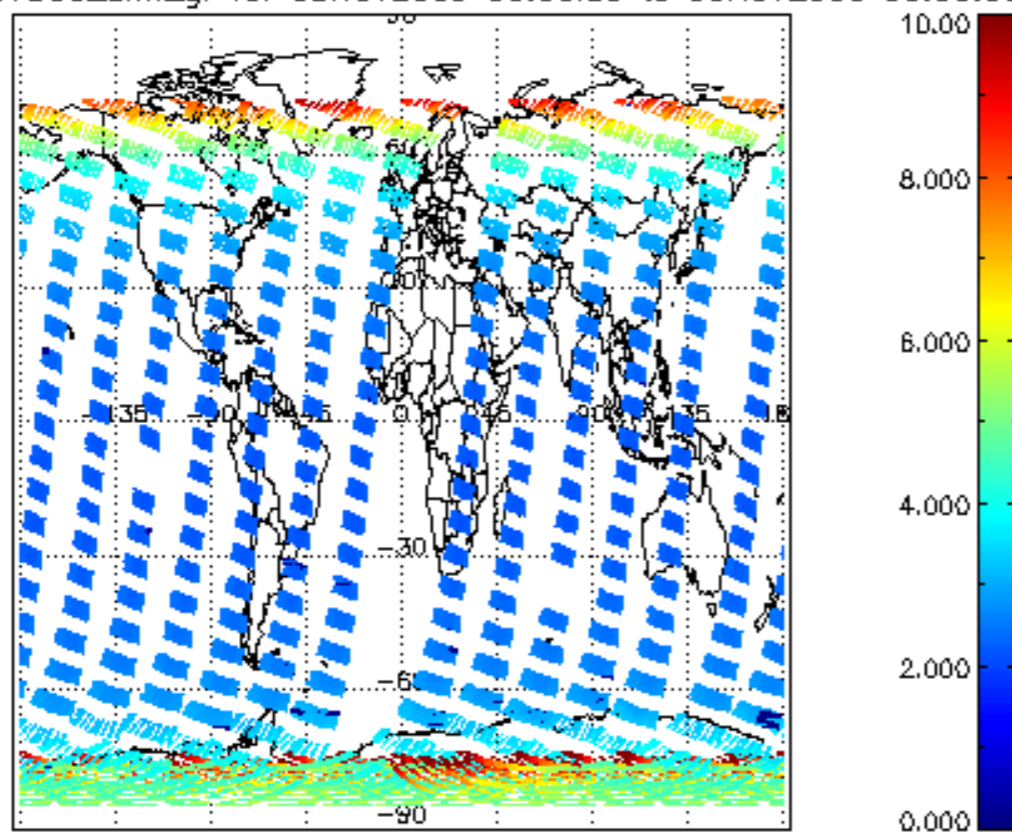
SCIOL2P_NADUV003_vcd for 05NOV2009 00:00:00 to 06NOV2009 00:00:00



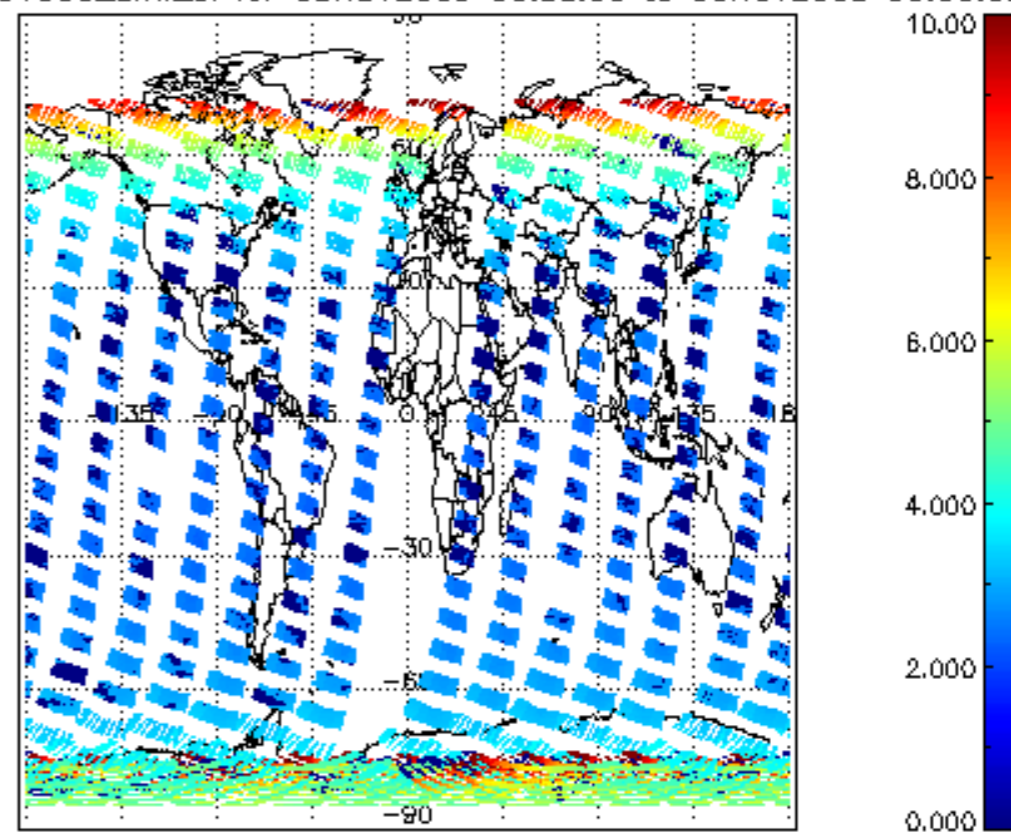
SCIOL2P_NADUV003_vcd_err for 05NOV2009 00:00:00 to 06NOV2009 00:00:00



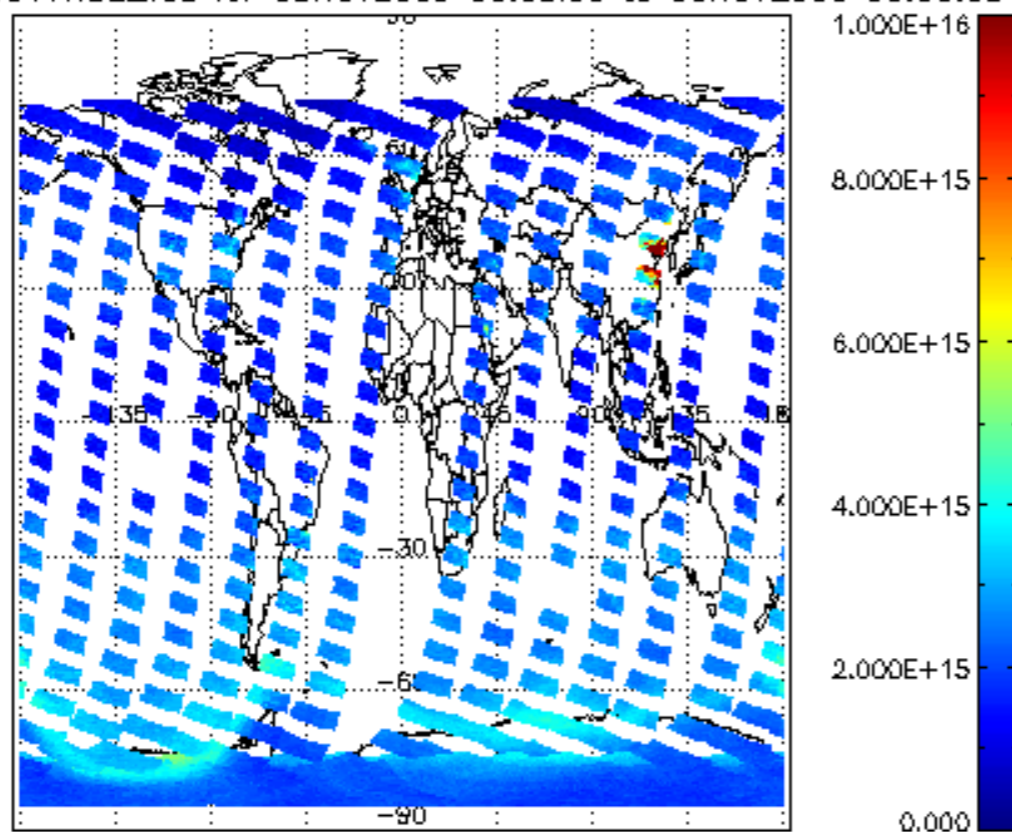
SCIOL2P_NADUV003_amf_gr for 05NOV2009 00:00:00 to 06NOV2009 00:00:00



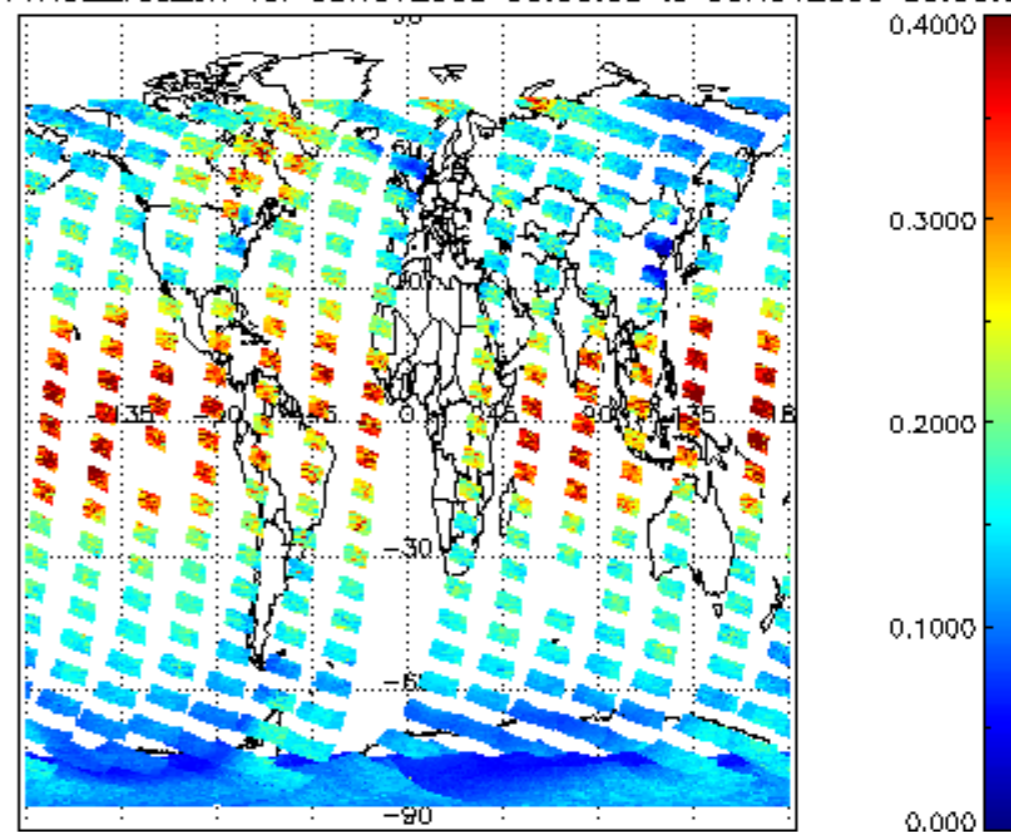
SCIOL2P_NADUV003_amf_cl for 05NOV2009 00:00:00 to 06NOV2009 00:00:00



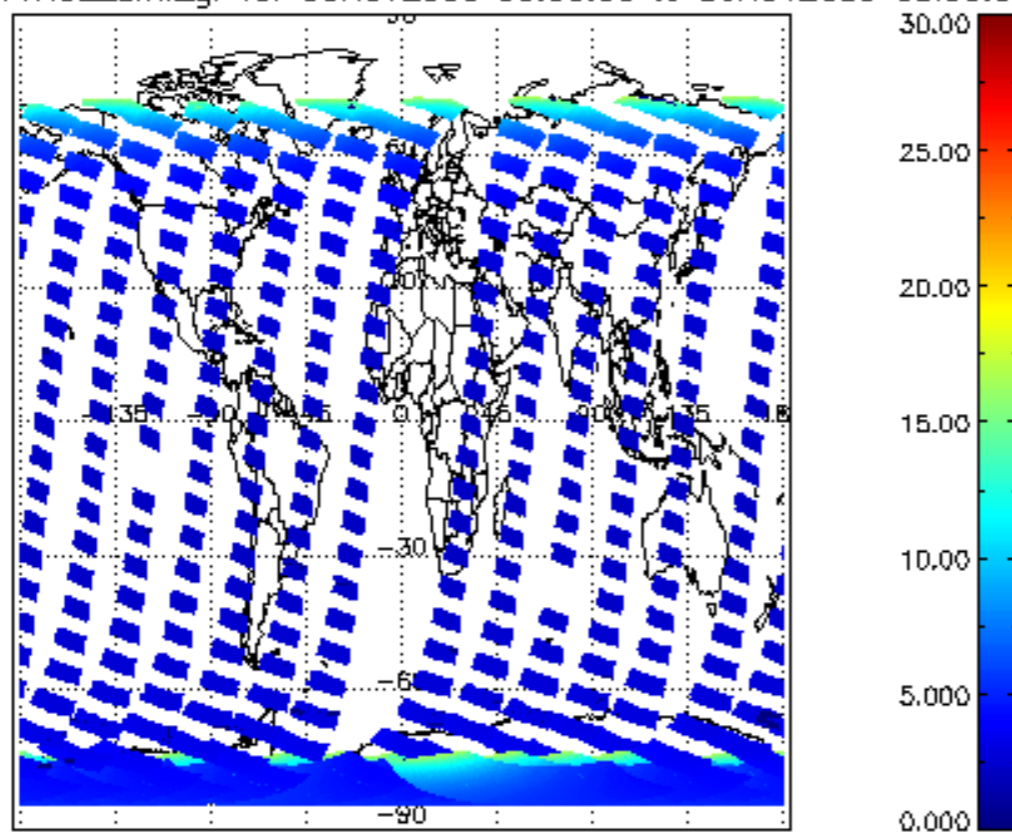
SCIOL2P_NADUV1NO2_vcd for 05NOV2009 00:00:00 to 06NOV2009 00:00:00



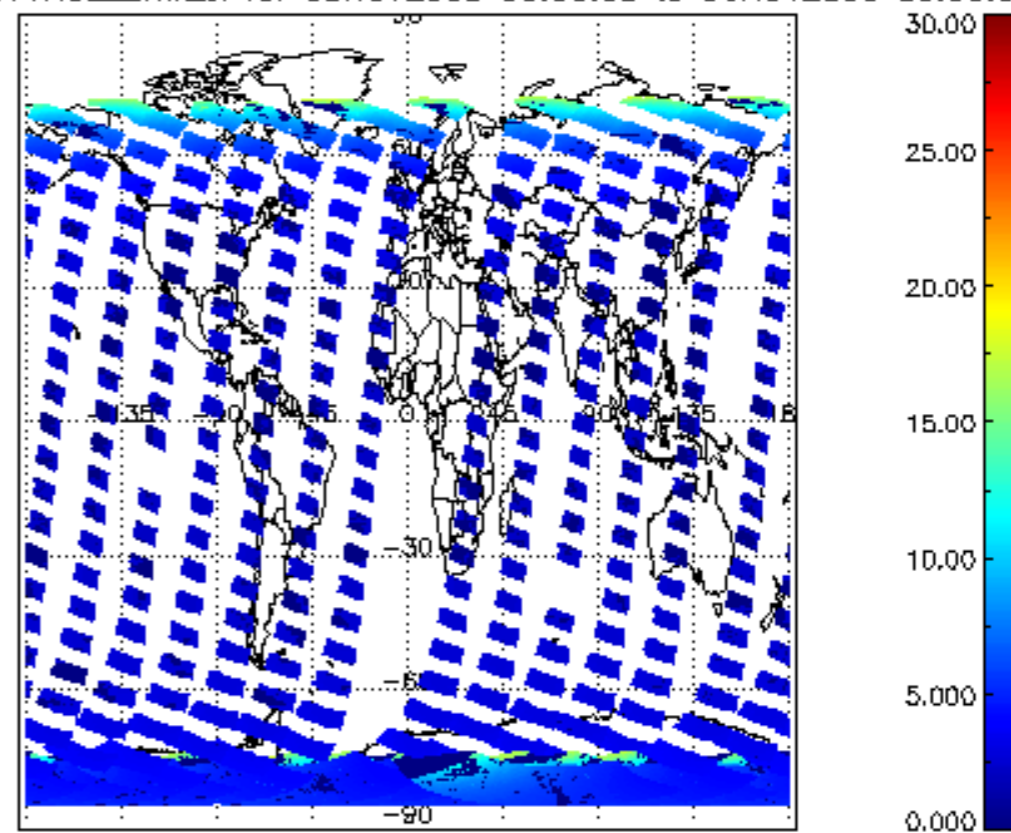
SCIOL2P_NADUV1NO2_vcd_err for 05NOV2009 00:00:00 to 06NOV2009 00:00:00



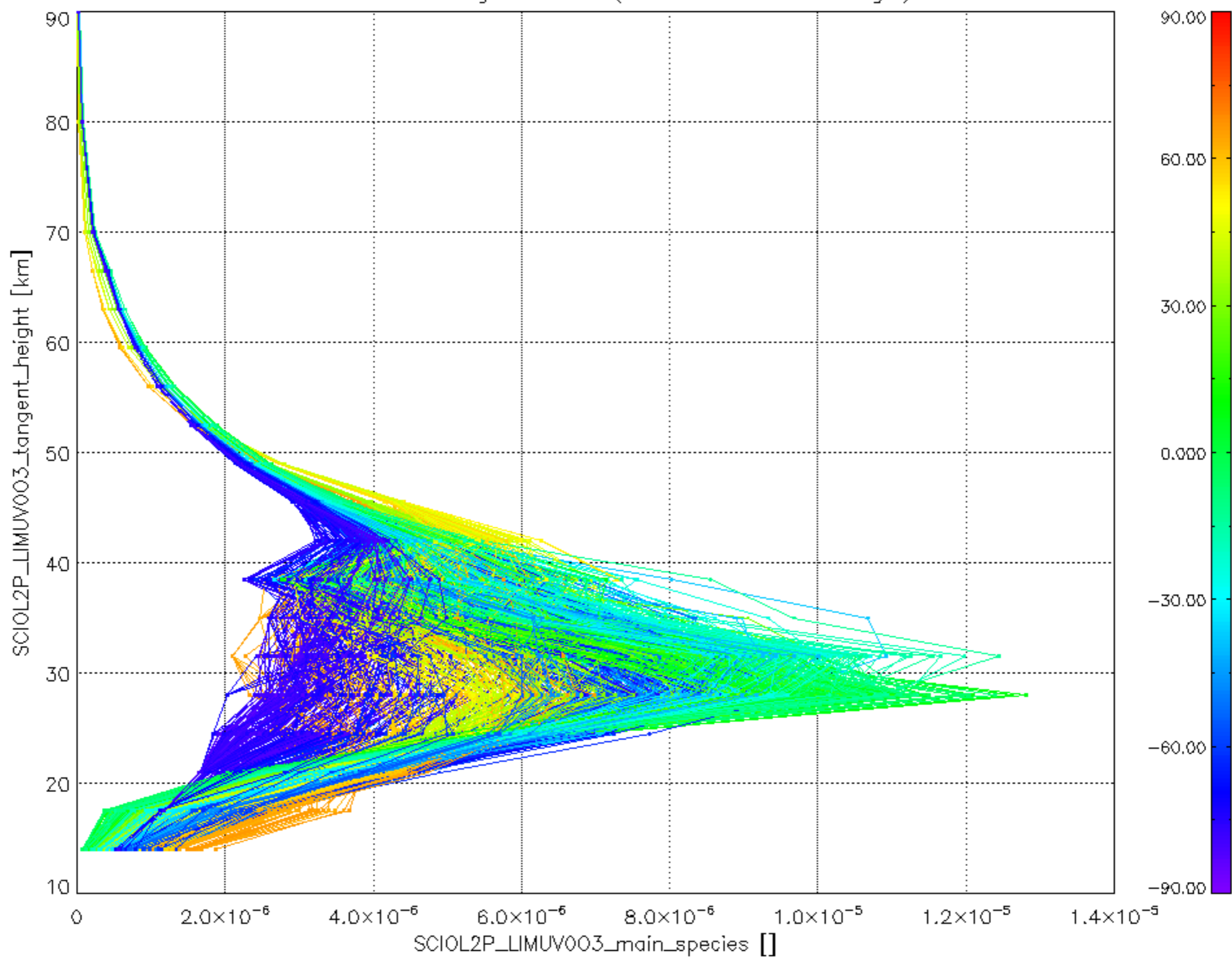
SCIOL2P_NADUV1NO2_amf_gr for 05NOV2009 00:00:00 to 06NOV2009 00:00:00



SCIOL2P_NADUV1NO2_amf_cl for 05NOV2009 00:00:00 to 06NOV2009 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).

