

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 14:01:23
Data source version	SCIA-OL/3.01-R
Processing scope for products	30AUG2009 00:00:00 to 31AUG2009 00:00:00
Start time of first product within scope	29AUG2009 22:58:31
Stop time of last product within scope	31AUG2009 01:03:59
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__2PRDPA20090829_225831_000033252082_00073_39205_4016.N1	29AUG2009 22:58:31	29AUG2009 23:53:57	0	GOOD
1	SCI_OL__2PRDPA20090830_003908_000033812082_00074_39206_4017.N1	30AUG2009 00:39:08	30AUG2009 01:35:29	0	GOOD
2	SCI_OL__2PRDPA20090830_021944_000033252082_00075_39207_4018.N1	30AUG2009 02:19:44	30AUG2009 03:15:09	0	GOOD
3	SCI_OL__2PRDPA20090830_040020_000033812082_00076_39208_4019.N1	30AUG2009 04:00:20	30AUG2009 04:56:42	0	GOOD
4	SCI_OL__2PRDPA20090830_054057_000033252082_00077_39209_4020.N1	30AUG2009 05:40:57	30AUG2009 06:36:22	0	GOOD
5	SCI_OL__2PRDPA20090830_072133_000033812082_00078_39210_4021.N1	30AUG2009 07:21:33	30AUG2009 08:17:55	0	GOOD
6	SCI_OL__2PRDPA20090830_090210_000033252082_00079_39211_4022.N1	30AUG2009 09:02:10	30AUG2009 09:57:35	0	GOOD
7	SCI_OL__2PRDPA20090830_104246_000033812082_00080_39212_4023.N1	30AUG2009 10:42:46	30AUG2009 11:39:07	0	GOOD
8	SCI_OL__2PRDPA20090830_122322_000033252082_00081_39213_4025.N1	30AUG2009 12:23:22	30AUG2009 13:18:48	0	GOOD
9	SCI_OL__2PRDPA20090830_140359_000033812082_00082_39214_4024.N1	30AUG2009 14:03:59	30AUG2009 15:00:20	0	GOOD
10	SCI_OL__2PRDPA20090830_154435_000033252082_00083_39215_4026.N1	30AUG2009 15:44:35	30AUG2009 16:40:01	0	GOOD
11	SCI_OL__2PRDPA20090830_172531_000033562082_00084_39216_4027.N1	30AUG2009 17:25:31	30AUG2009 18:21:27	0	GOOD
12	SCI_OL__2PRDPA20090830_190608_000033122082_00085_39217_4028.N1	30AUG2009 19:06:08	30AUG2009 20:01:20	0	GOOD
13	SCI_OL__2PRDPA20090830_204624_000033812082_00086_39218_4029.N1	30AUG2009 20:46:24	30AUG2009 21:42:46	0	GOOD
14	SCI_OL__2PRDPA20090830_222701_000033252082_00087_39219_4030.N1	30AUG2009 22:27:01	30AUG2009 23:22:26	0	GOOD
15	SCI_OL__2PRDPA20090831_000737_000033812082_00088_39220_4031.N1	31AUG2009 00:07:37	31AUG2009 01:03:59	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: 146640

Total number of cloud data DSRs with good quality flag (=0): 146640 (100.0 %)

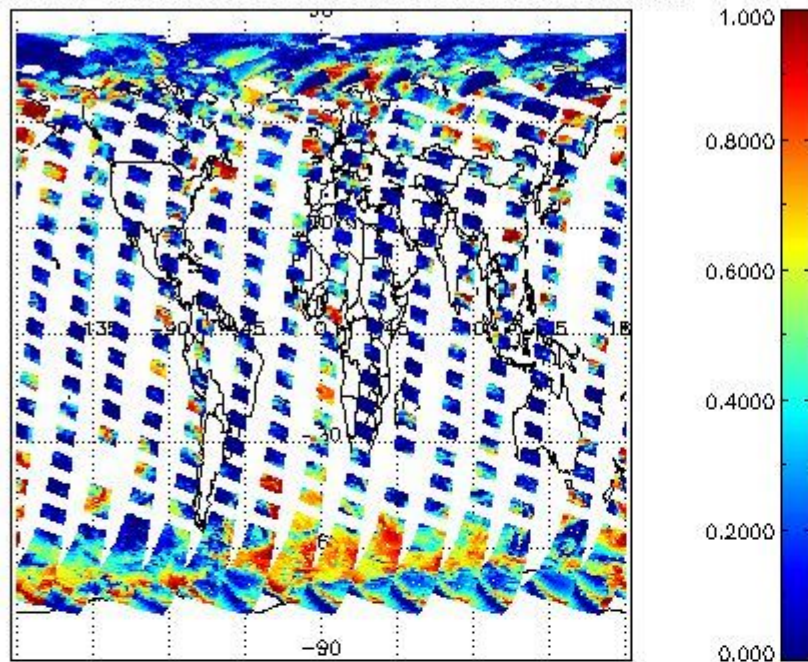
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	146640	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	146640	0.16933	0.12500	0.12500	0.25000	0.059800	s
CL_FRAC	146640	0.31739	0.25082	0.0000	1.0000	0.29266	-
CL_FRAC_ERR	146640	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	146640	5.4184	4.0000	4.0000	8.0000	1.9136	
PMD_READ_CL[0]	146640	0.15415	0.0000	0.0000	8.0000	0.87933	-
PMD_READ_CL[1]	146640	1.7531	0.0000	0.0000	8.0000	2.6952	-
CL_TOP_HEIGHT	126481	3.3658	1.5668	0.0000	17.000	3.8590	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	126481	60.104	100.00	0.0000	101.00	44.411	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	146640	11100000	11100000	11100000	11100000	0.0000	flags
CLOUD_FLAGS	146640	11001101	11000100	11000000	11100000	3558.3	flags
AERO_ABSO_IND	146640	4.2343	5.1174	-0.021558	17.270	2.8219	
AERO_IND_DIAG	146640	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	146640	01010110	00000000	00000000	11000000	24451.	flags

Time and geolocation plots:

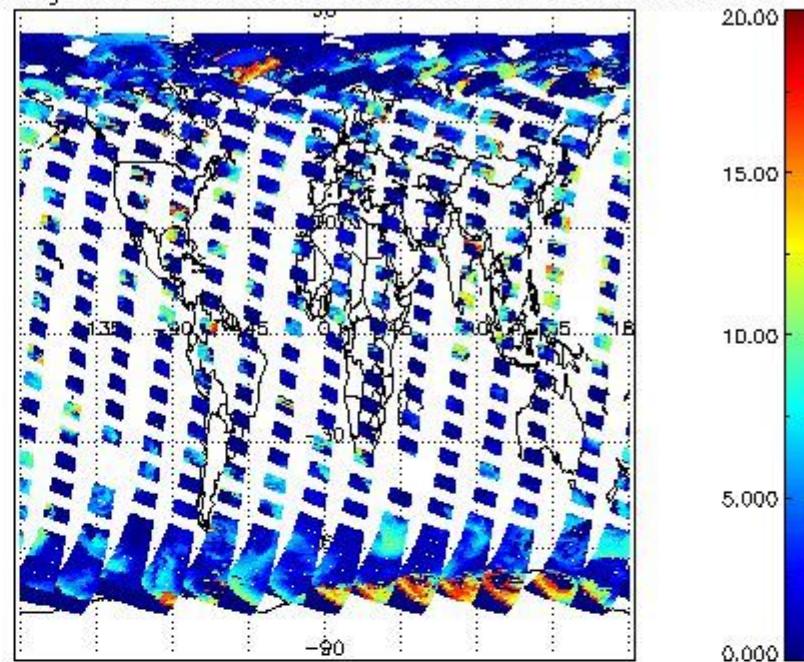
Plots are available for the following parameters:

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

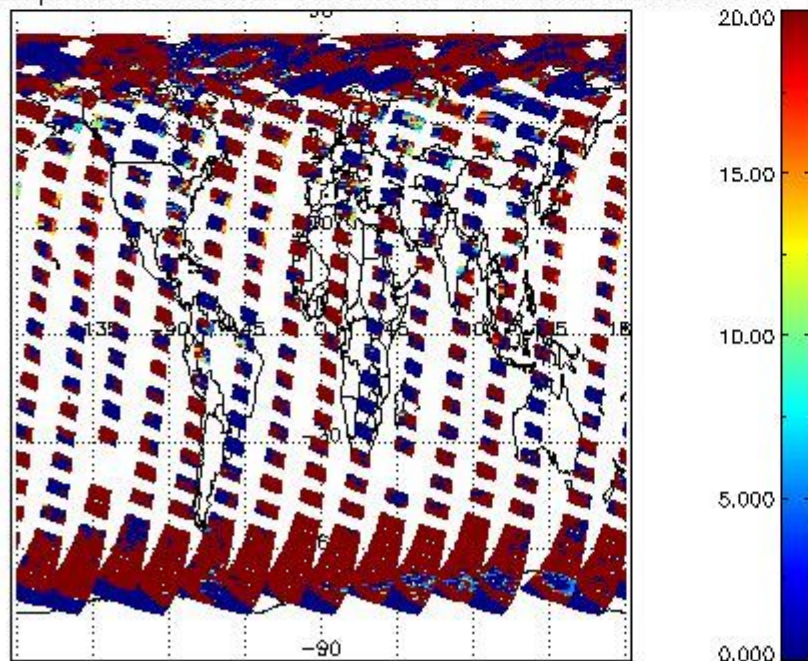
cL_frac for 30AUG2009 00:00:00 to 31AUG2009 00:00:00



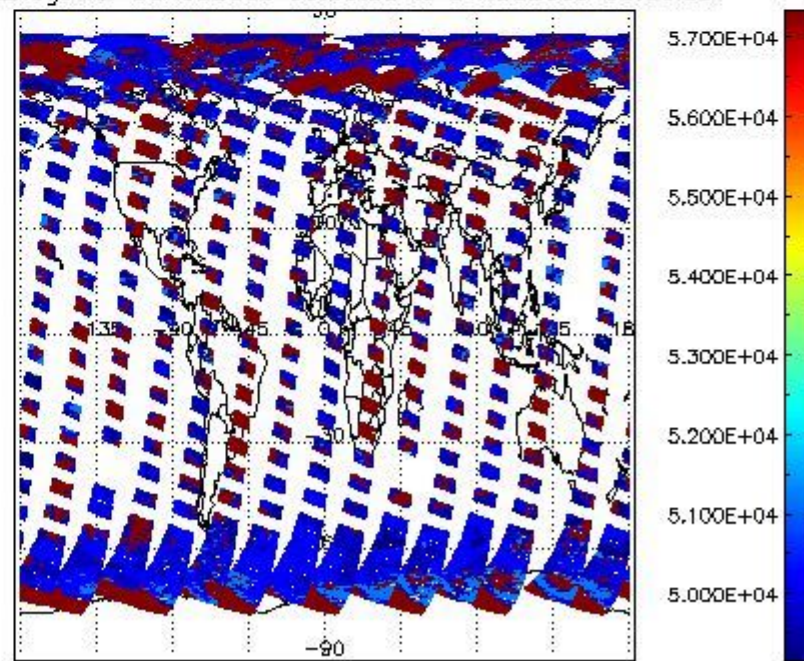
cL_top_height for 30AUG2009 00:00:00 to 31AUG2009 00:00:00



cL_opt_depth for 30AUG2009 00:00:00 to 31AUG2009 00:00:00



cloud_flags for 30AUG2009 00:00:00 to 31AUG2009 00:00:00



2.2.2 Nadir

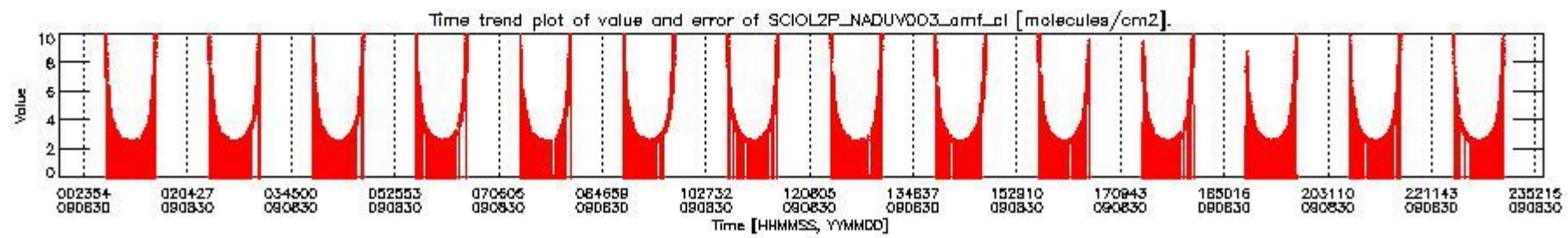
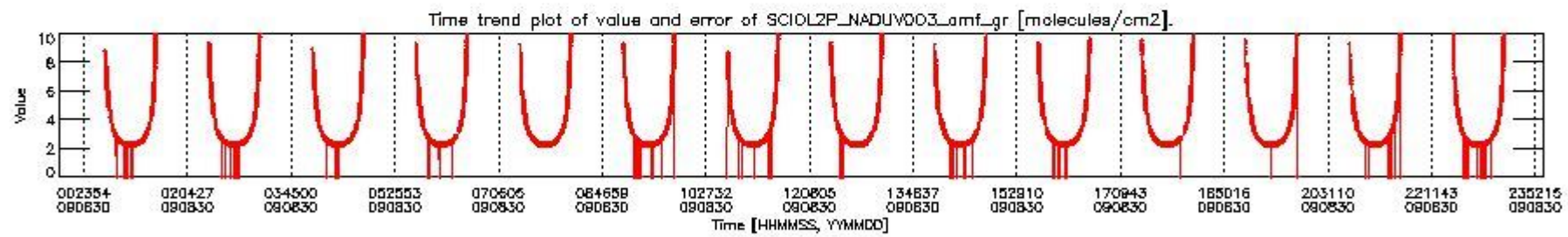
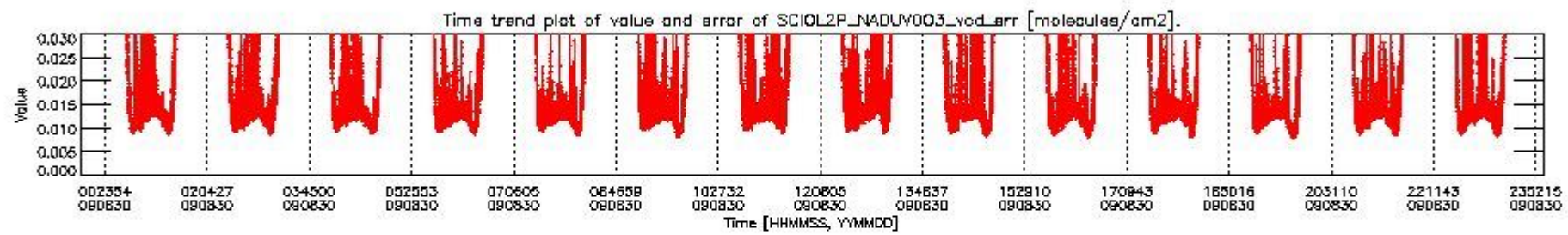
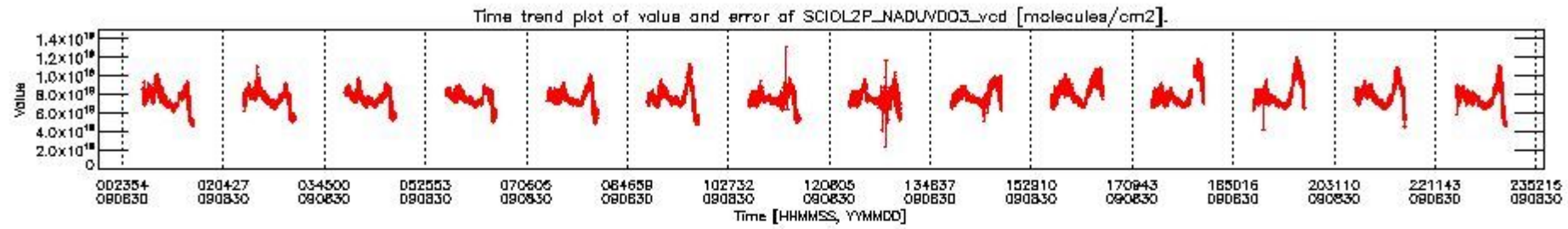
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

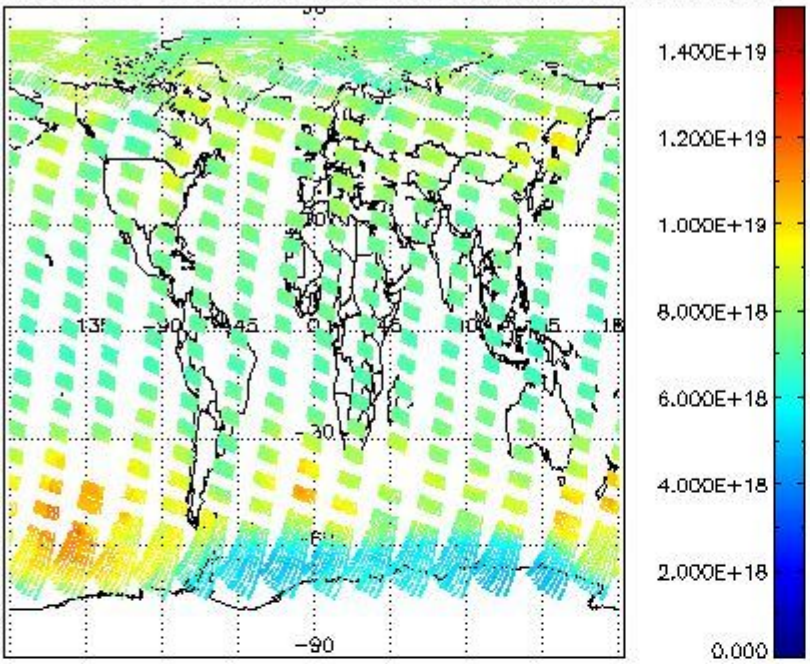
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

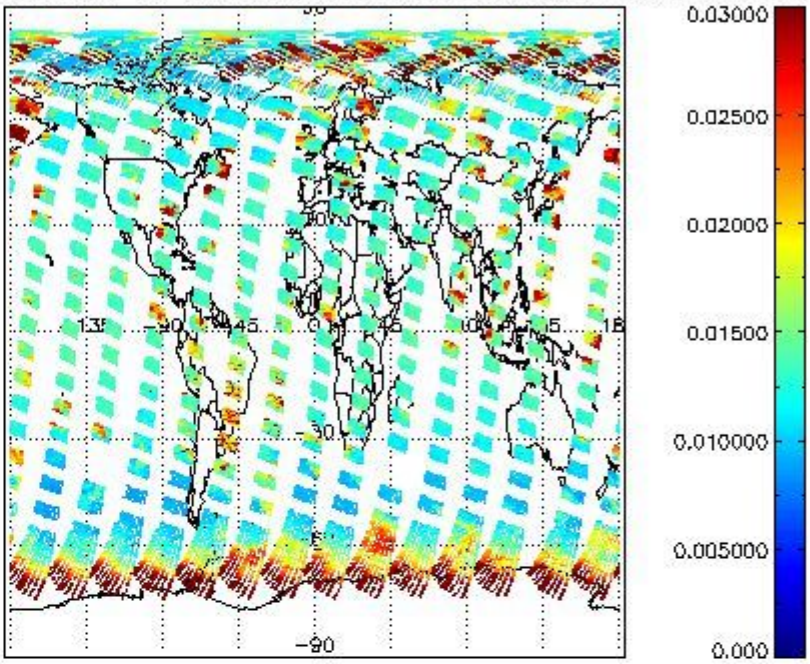
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



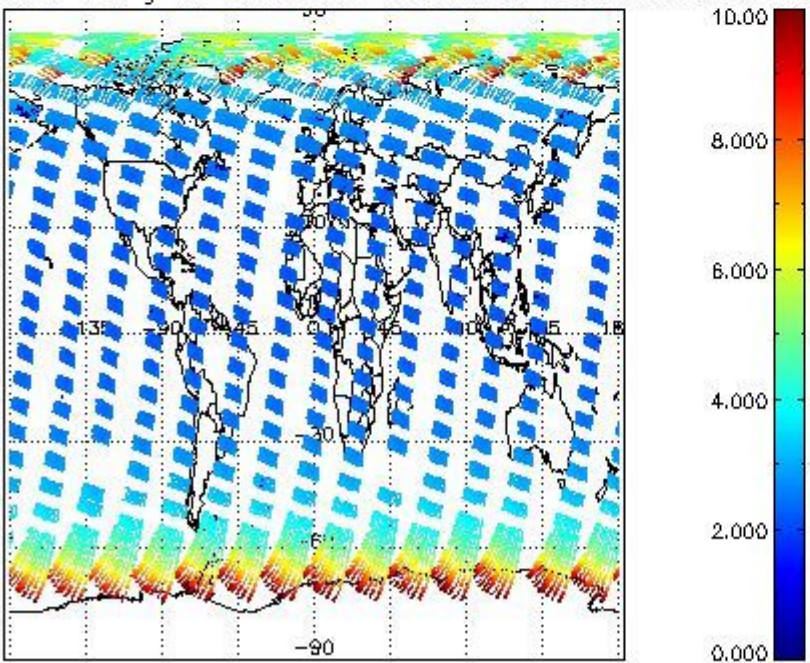
SCIOL2P_NADUV003_vcd for 30AUG2009 00:00:00 to 31AUG2009 00:00:00



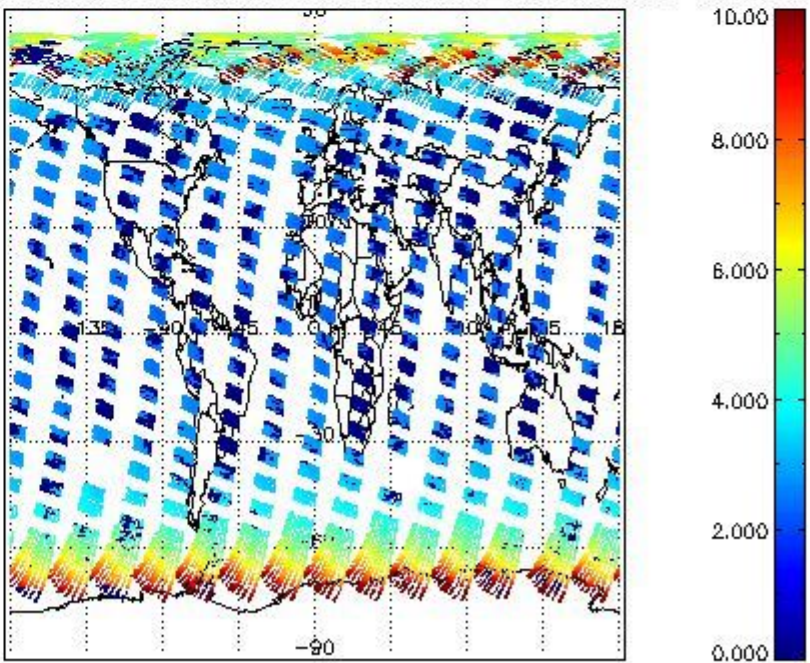
SCIOL2P_NADUV003_vcd_err for 30AUG2009 00:00:00 to 31AUG2009 00:00:00

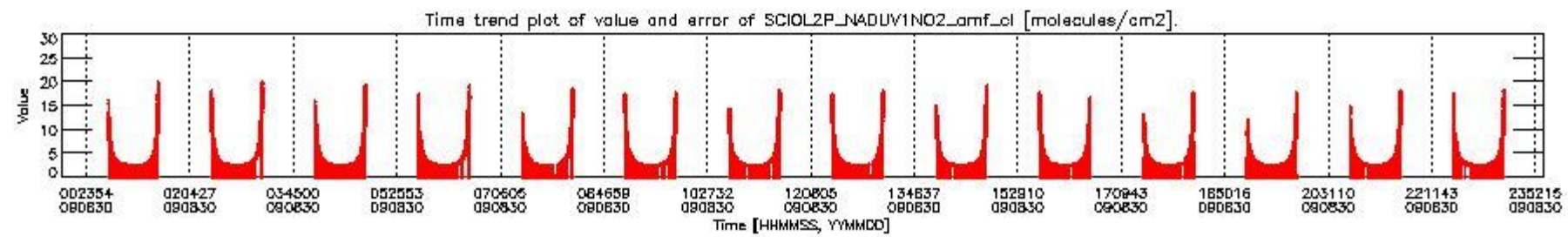
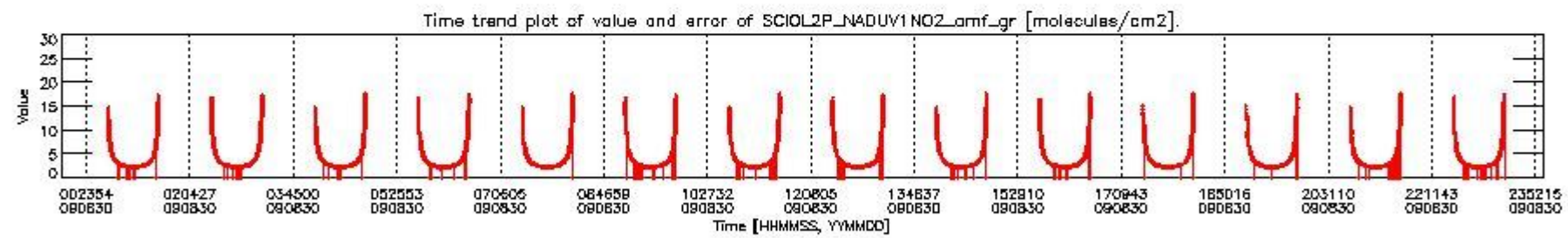
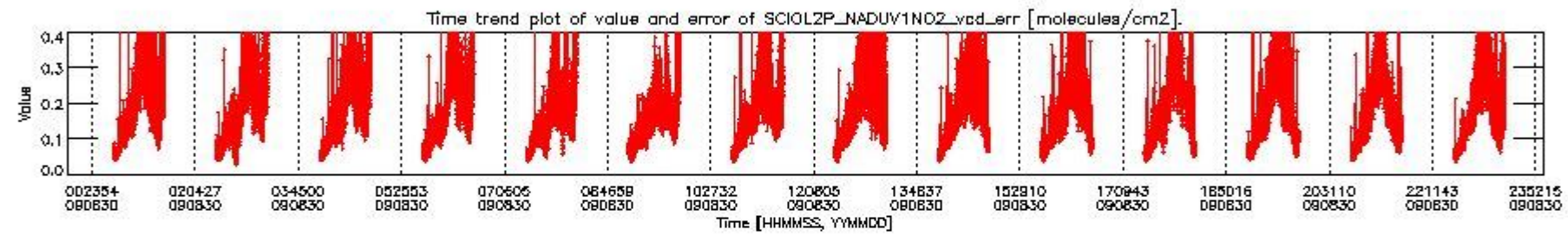
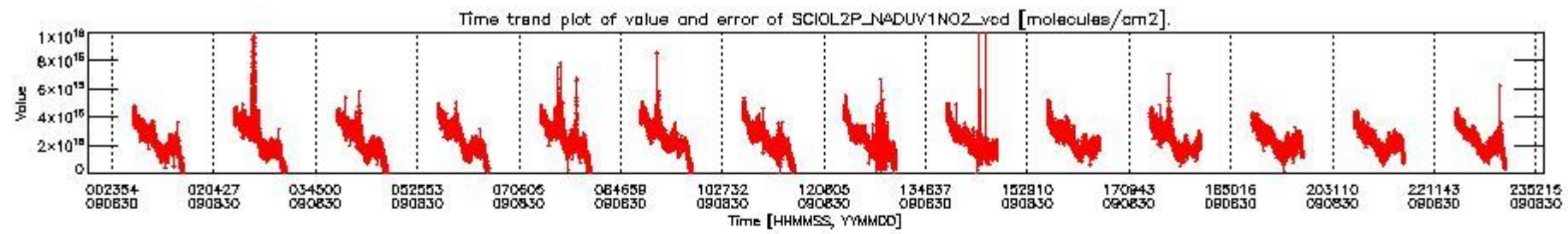


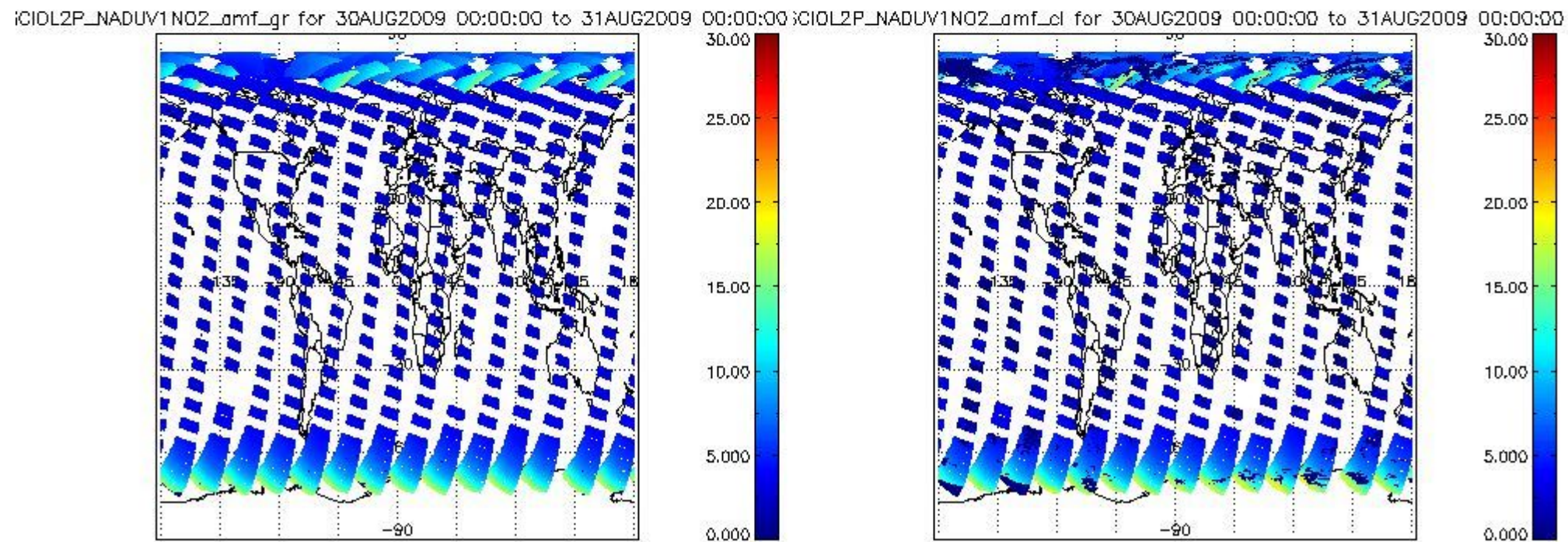
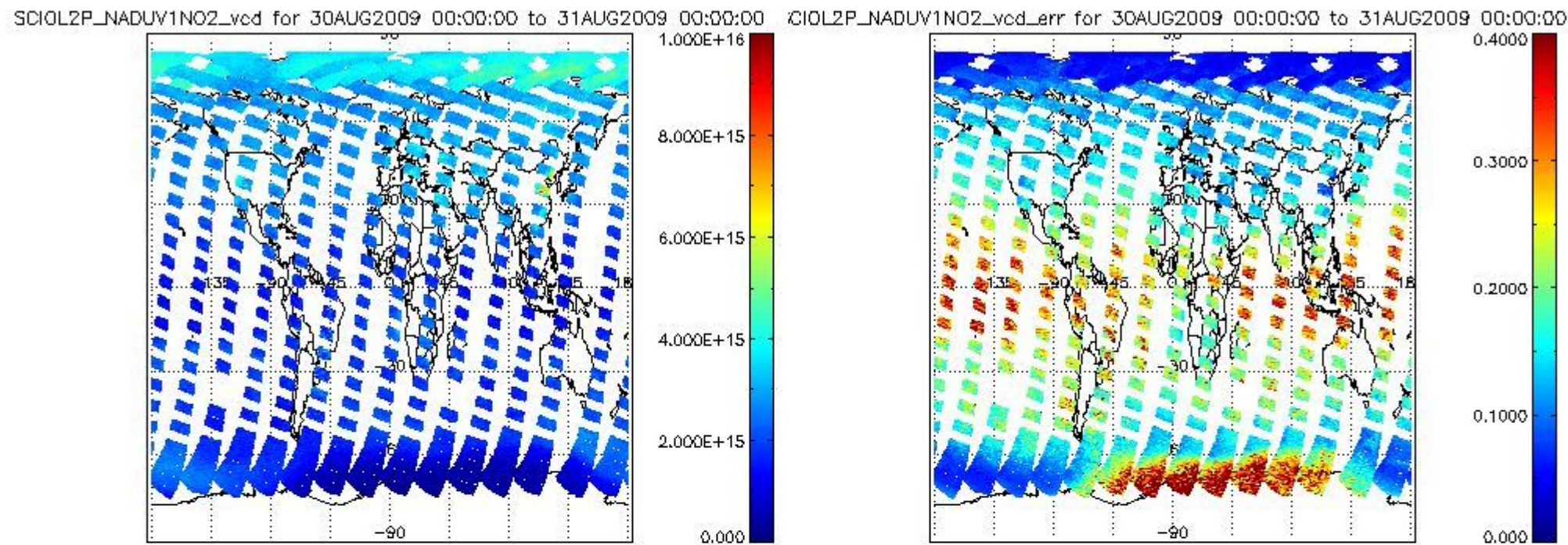
SCIOL2P_NADUV003_amf_gr for 30AUG2009 00:00:00 to 31AUG2009 00:00:00



SCIOL2P_NADUV003_amf_cl for 30AUG2009 00:00:00 to 31AUG2009 00:00:00







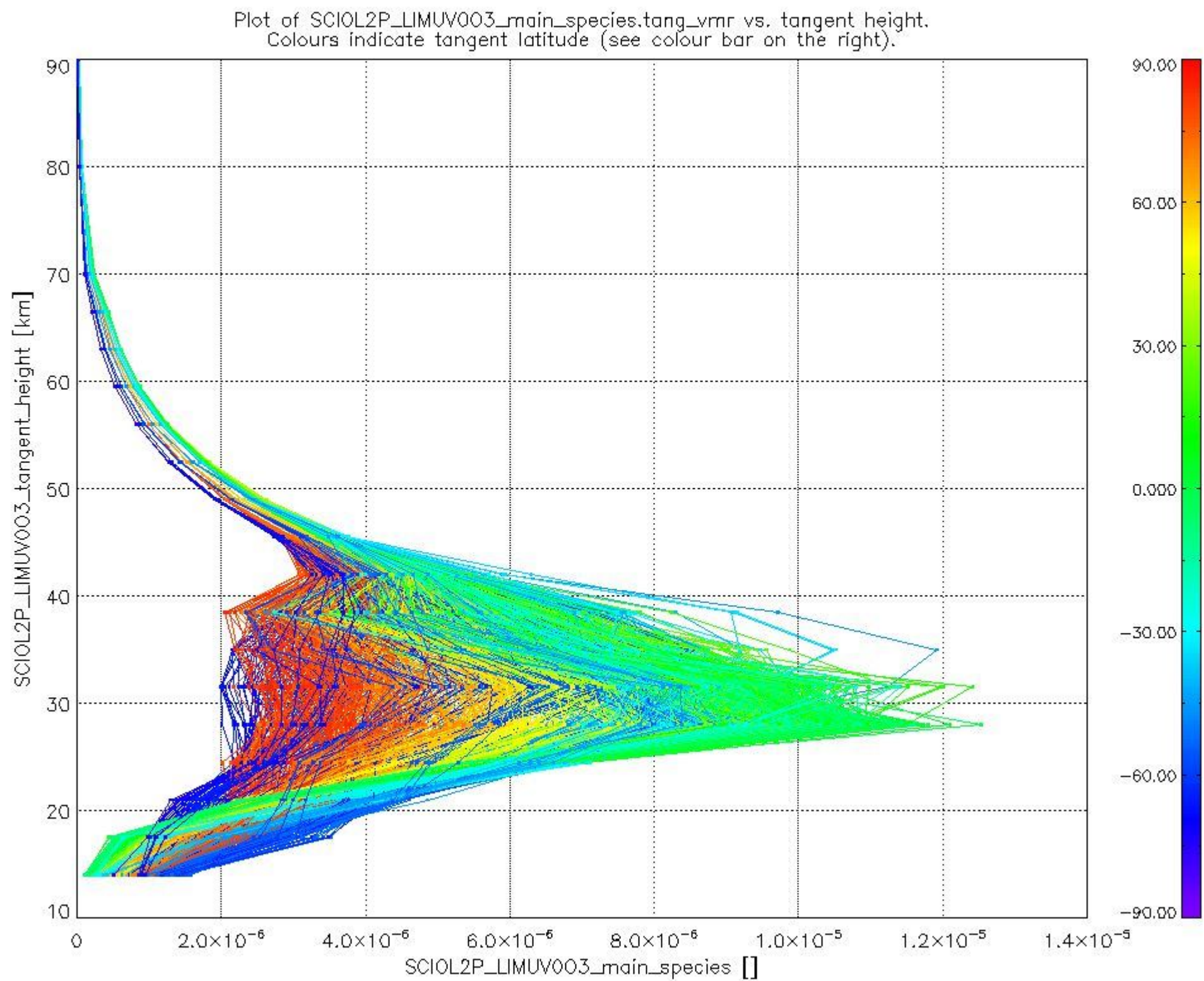
2.2.3 Limb

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

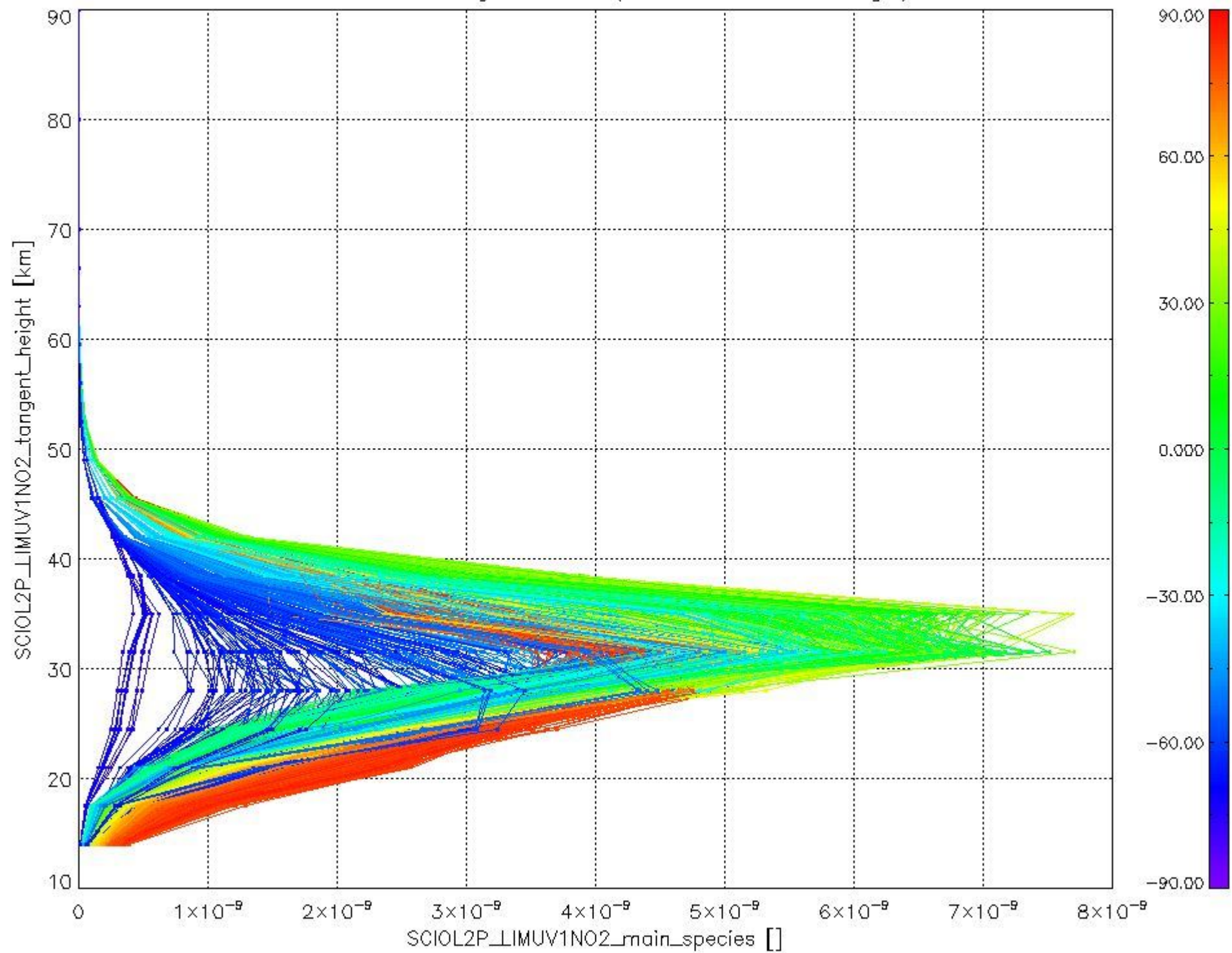
The following data items are currently included into this section:

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.



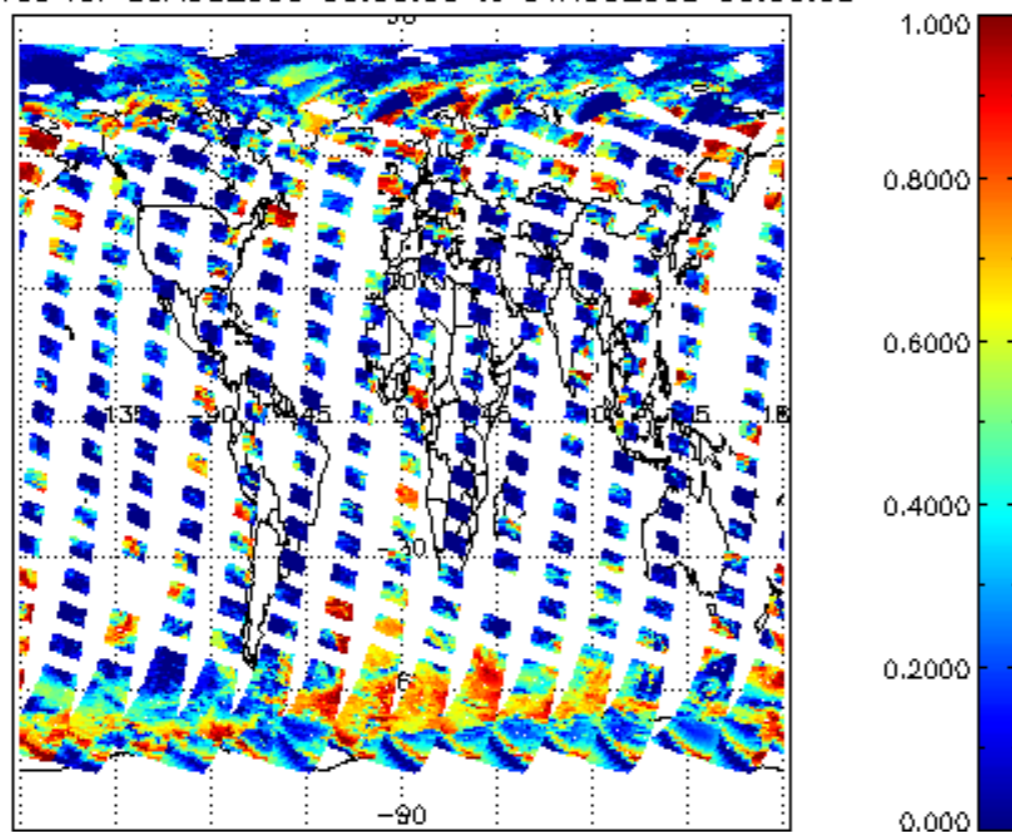
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



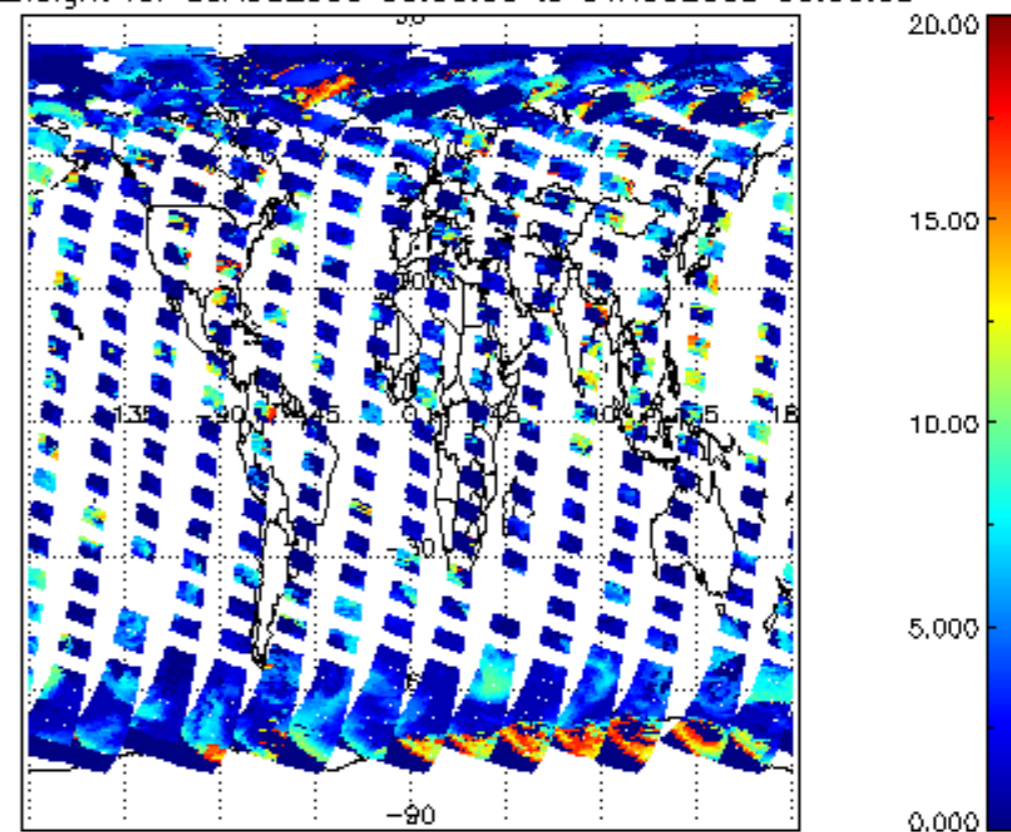
2.3 ADF monitoring

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

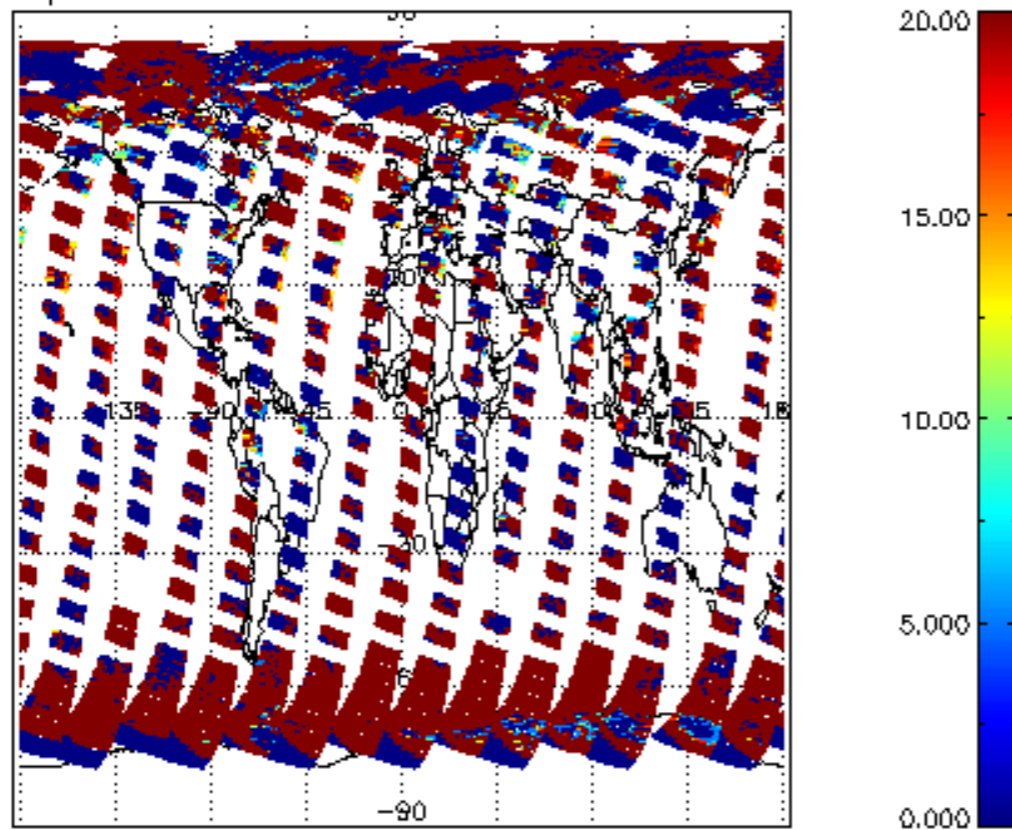
cL_frac for 30AUG2009 00:00:00 to 31AUG2009 00:00:00



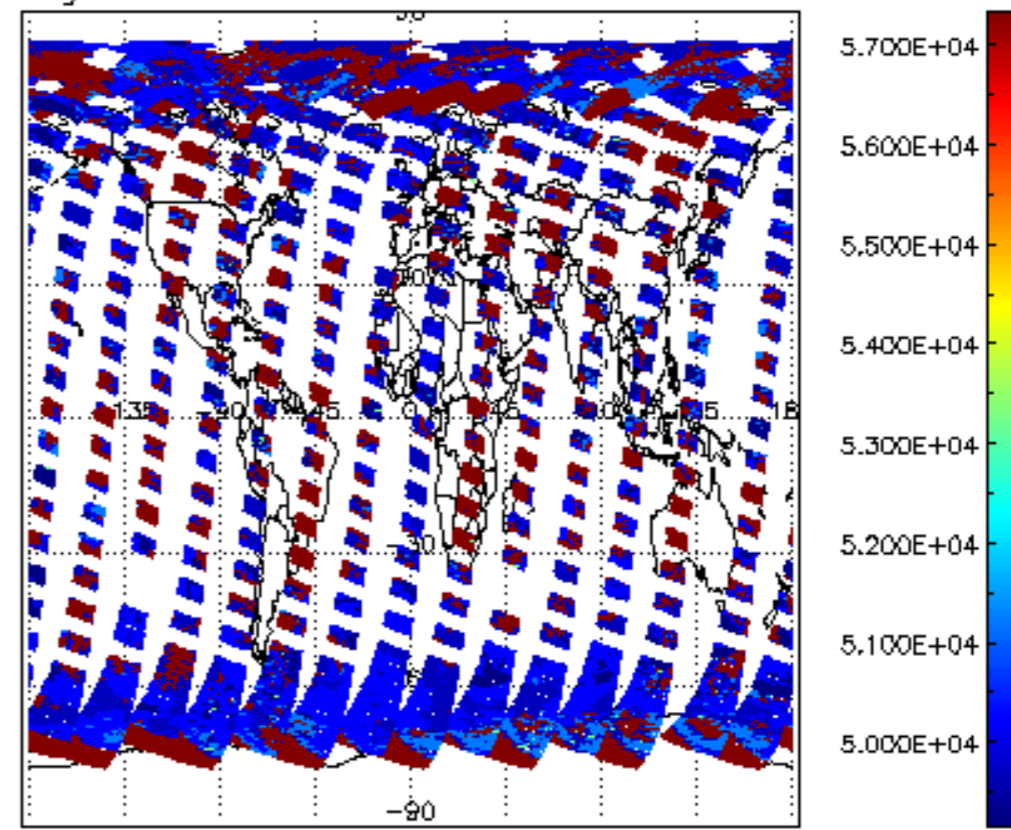
cL_top_height for 30AUG2009 00:00:00 to 31AUG2009 00:00:00

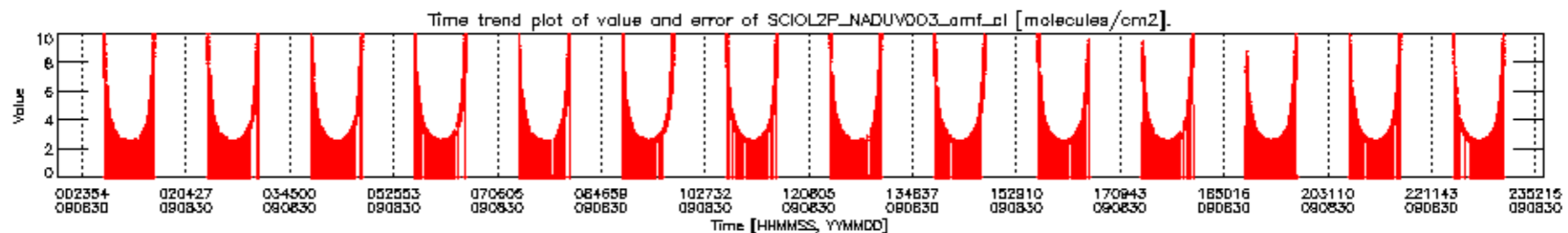
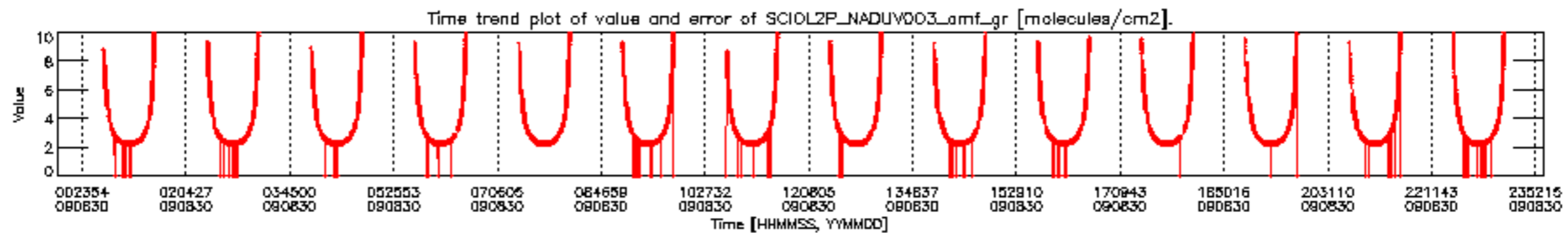
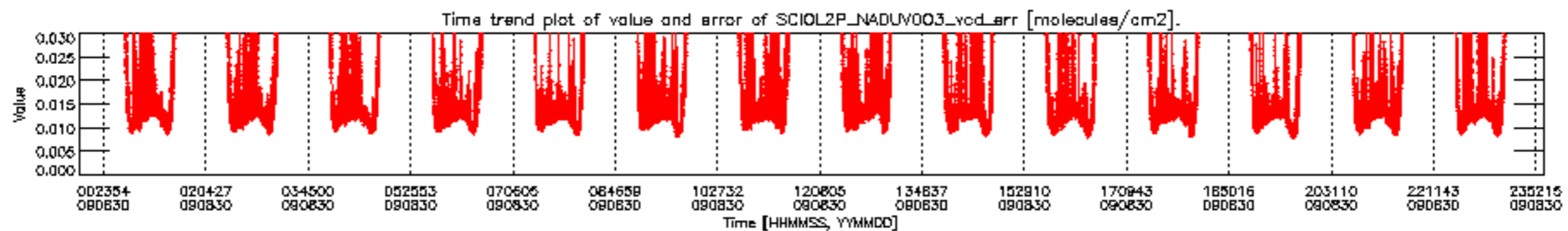
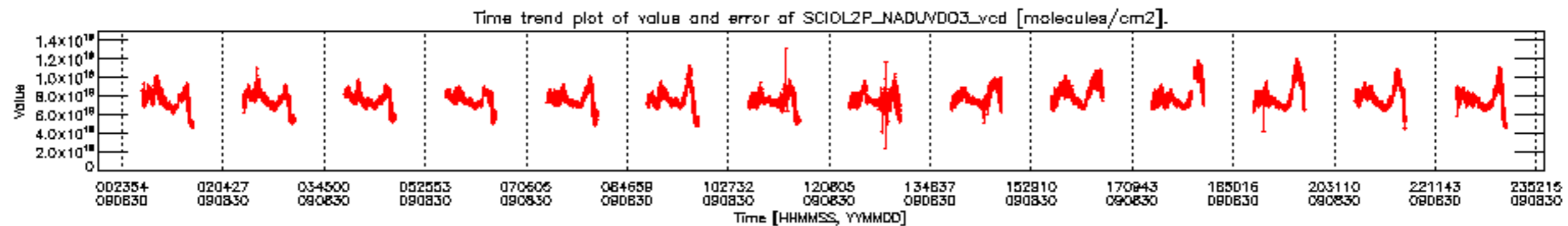


cL_opt_depth for 30AUG2009 00:00:00 to 31AUG2009 00:00:00

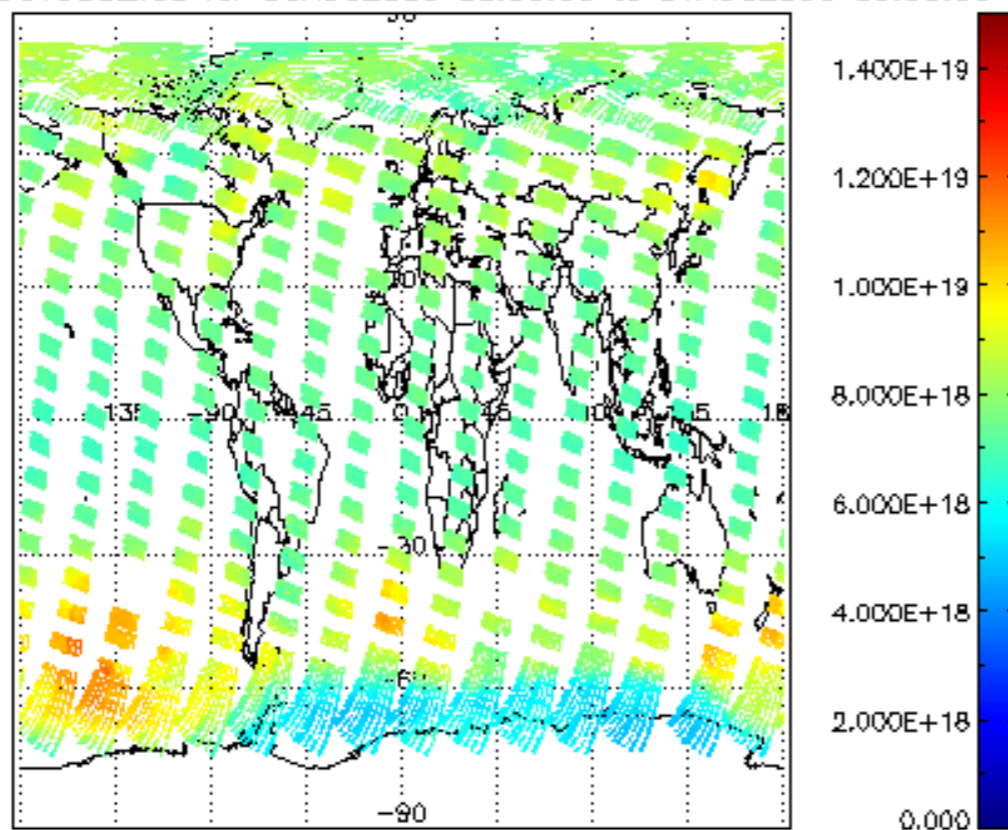


cloud_flags for 30AUG2009 00:00:00 to 31AUG2009 00:00:00

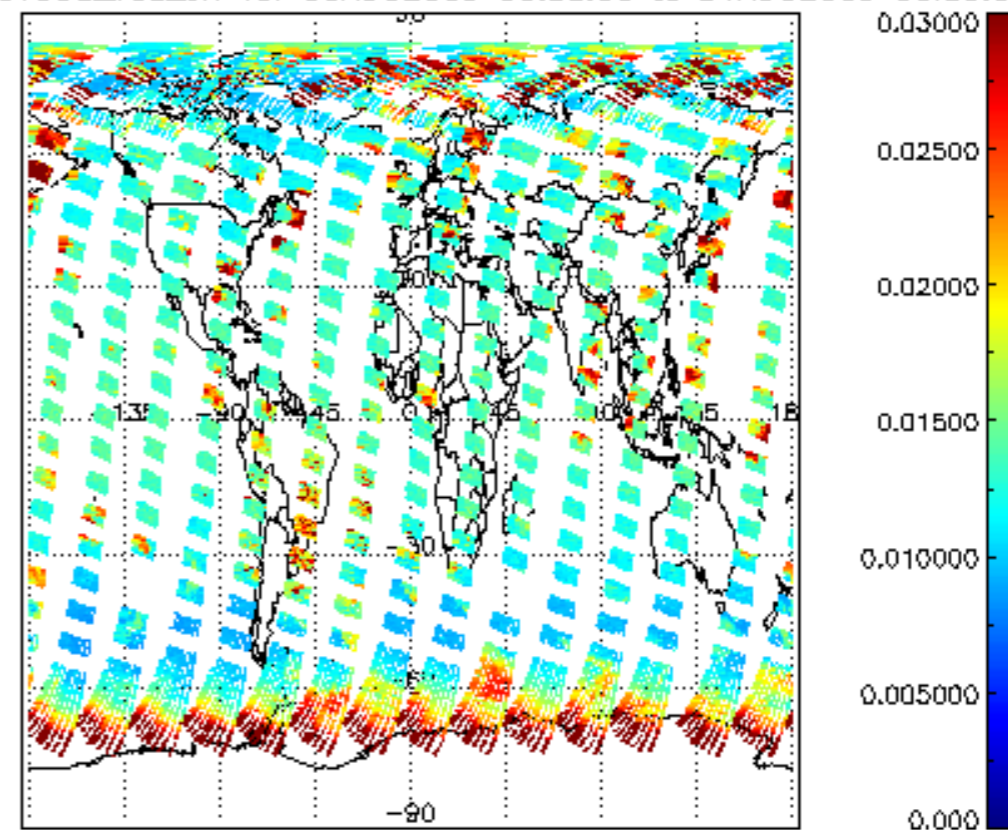




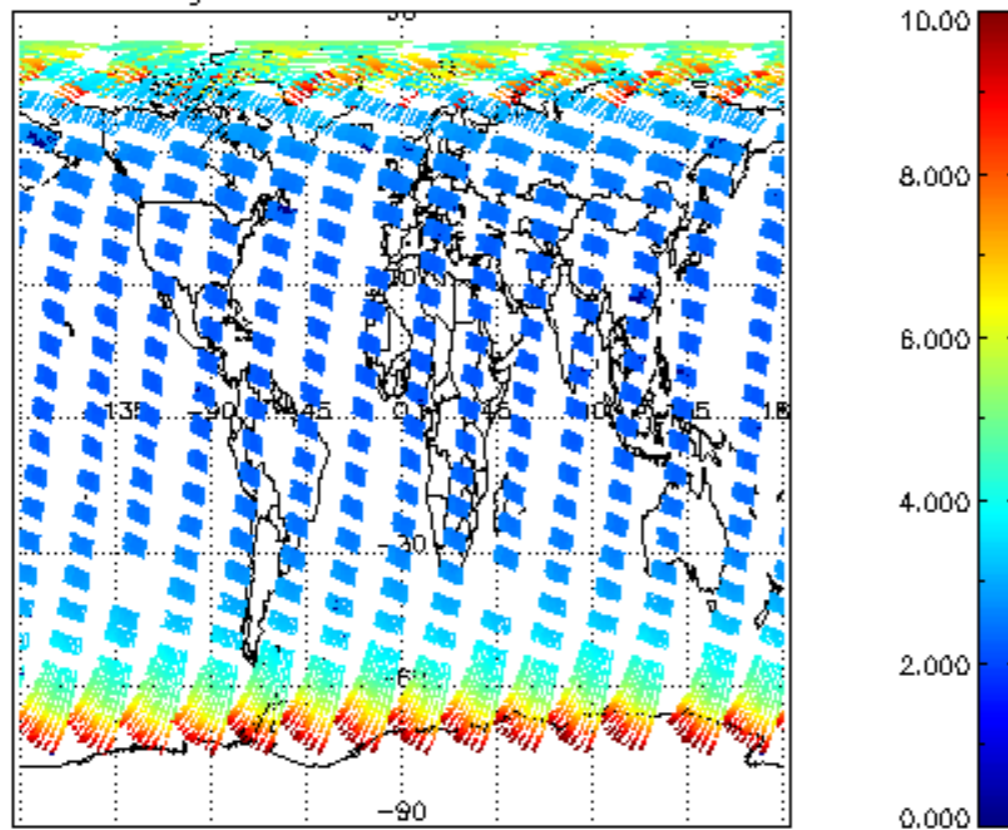
SCIOL2P_NADUV003_vcd for 30AUG2009 00:00:00 to 31AUG2009 00:00:00



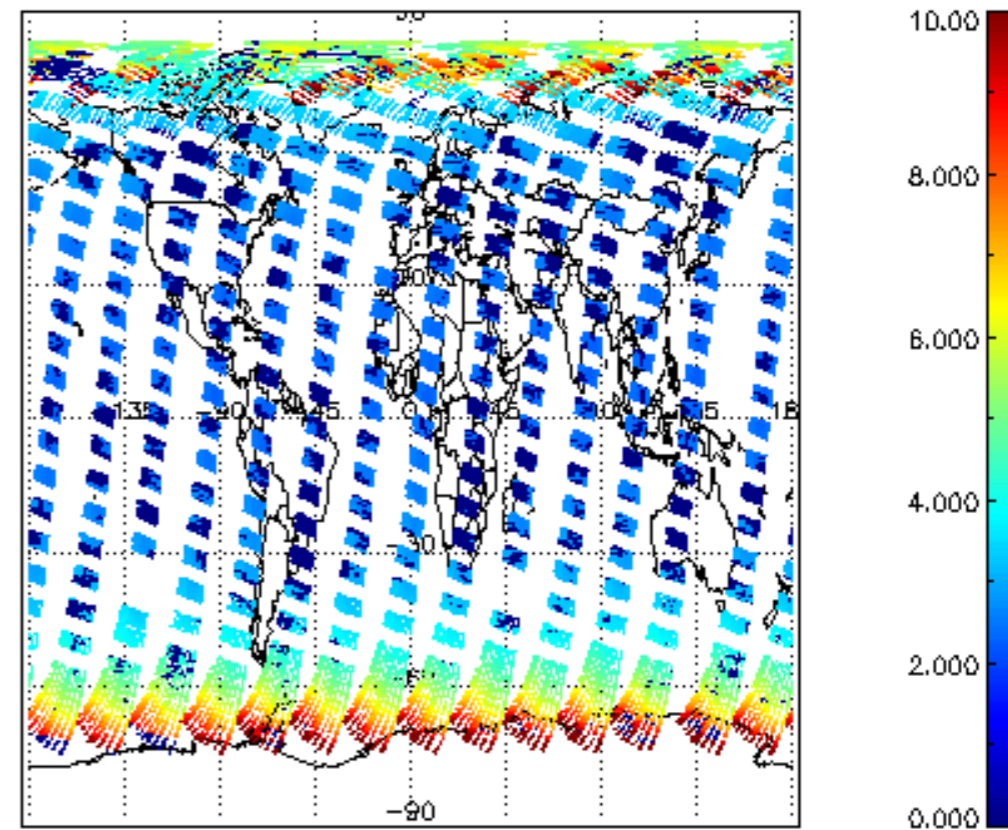
SCIOL2P_NADUV003_vcd_err for 30AUG2009 00:00:00 to 31AUG2009 00:00:00

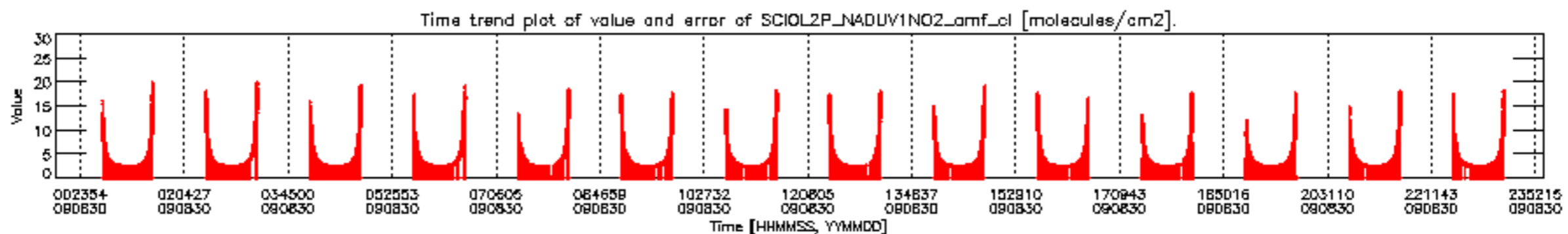
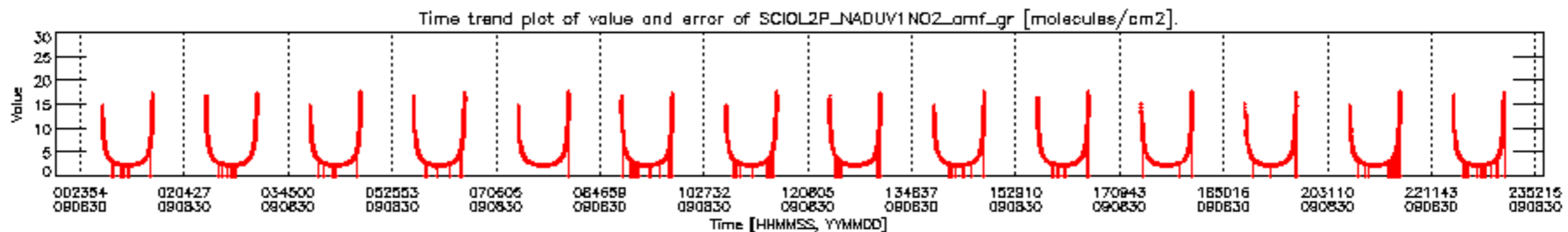
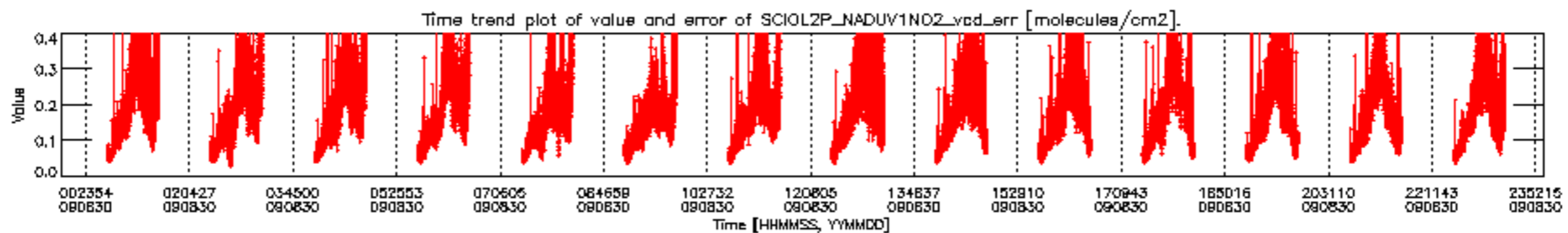
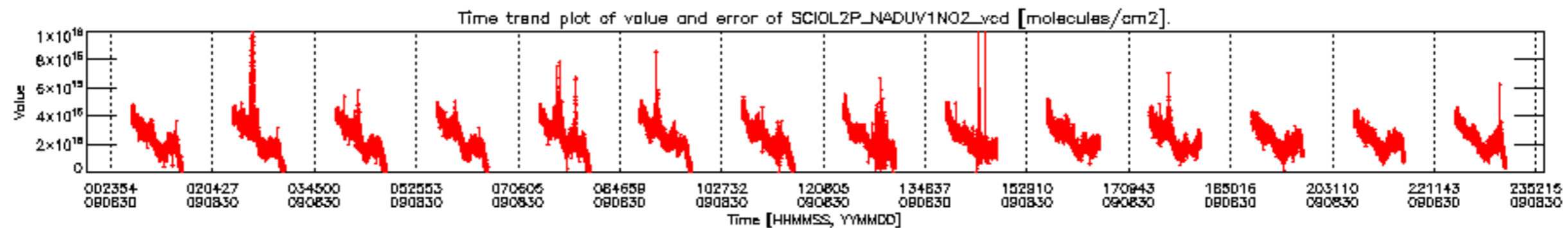


SCIOL2P_NADUV003_amf_gr for 30AUG2009 00:00:00 to 31AUG2009 00:00:00

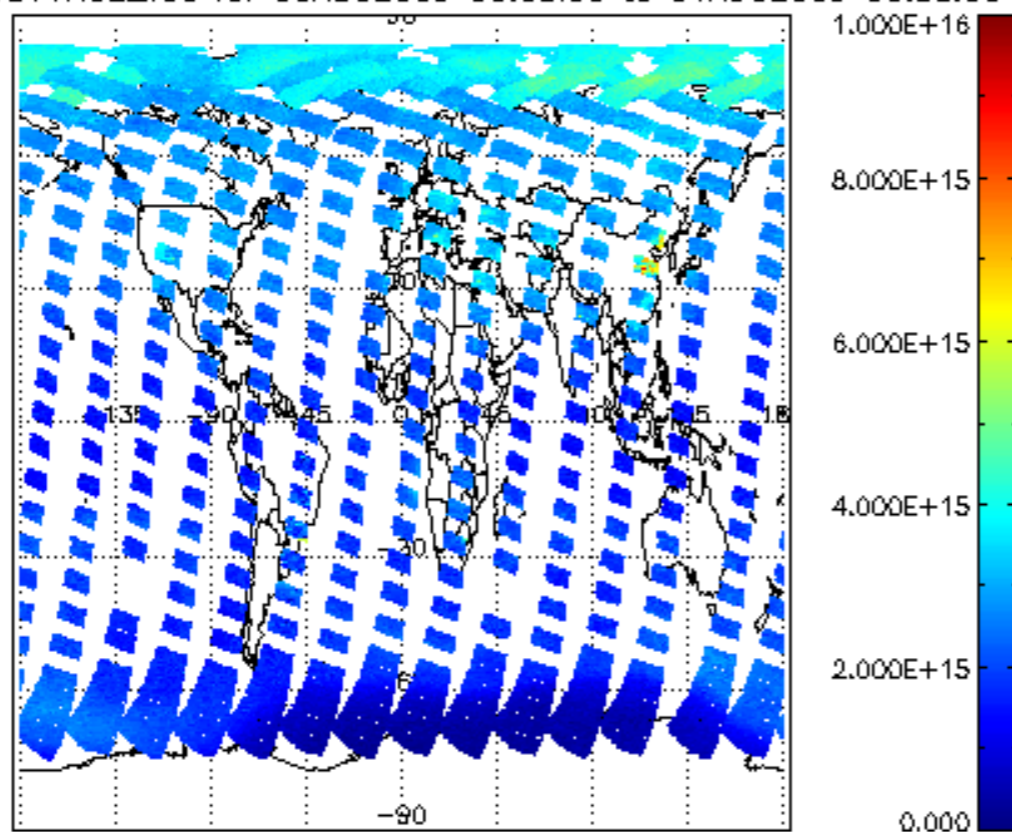


SCIOL2P_NADUV003_amf_cl for 30AUG2009 00:00:00 to 31AUG2009 00:00:00

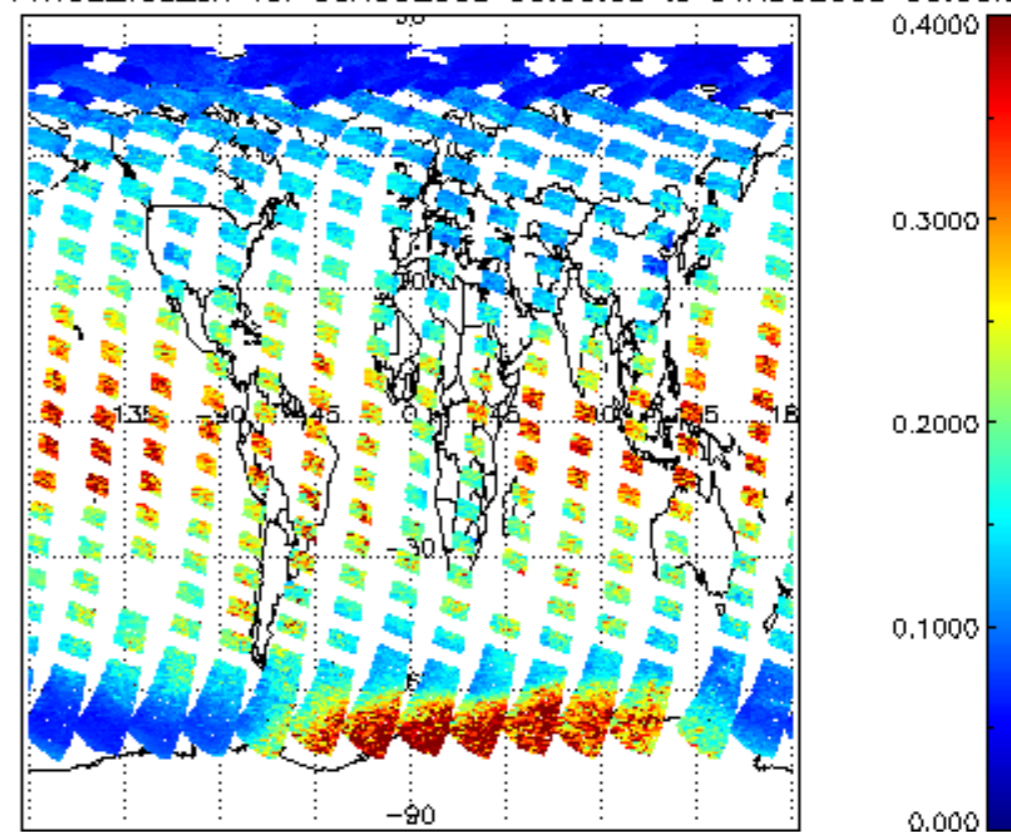




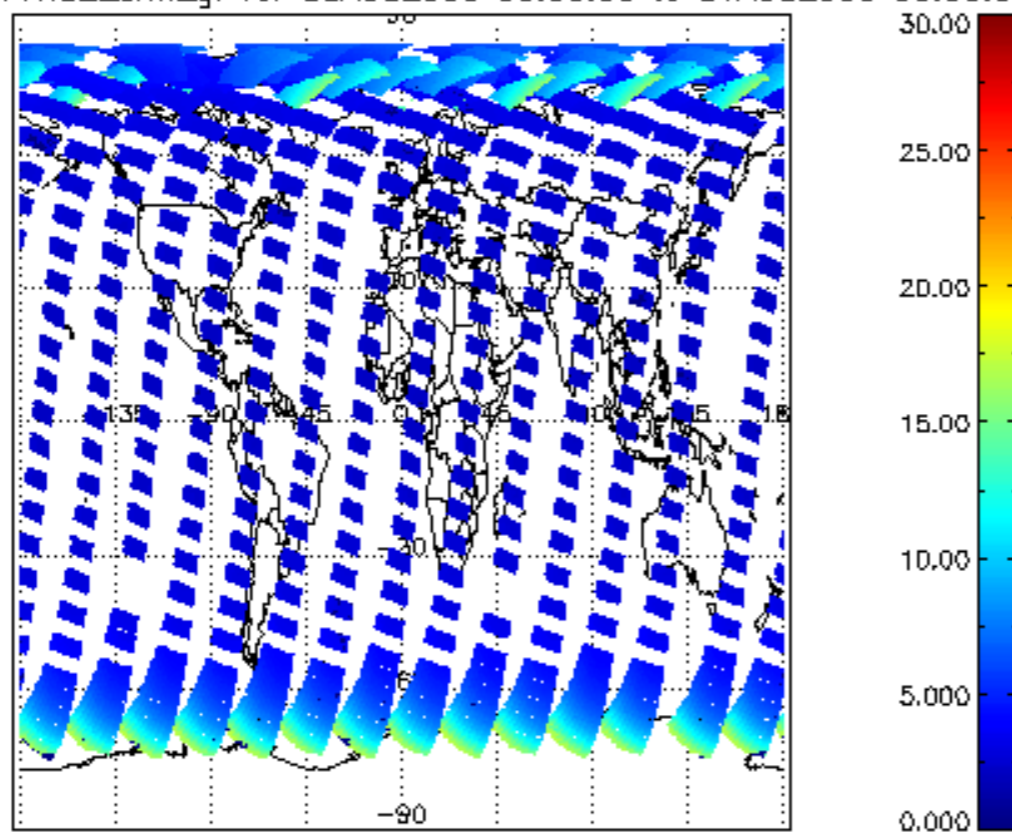
SCIOL2P_NADUV1NO2_vcd for 30AUG2009 00:00:00 to 31AUG2009 00:00:00



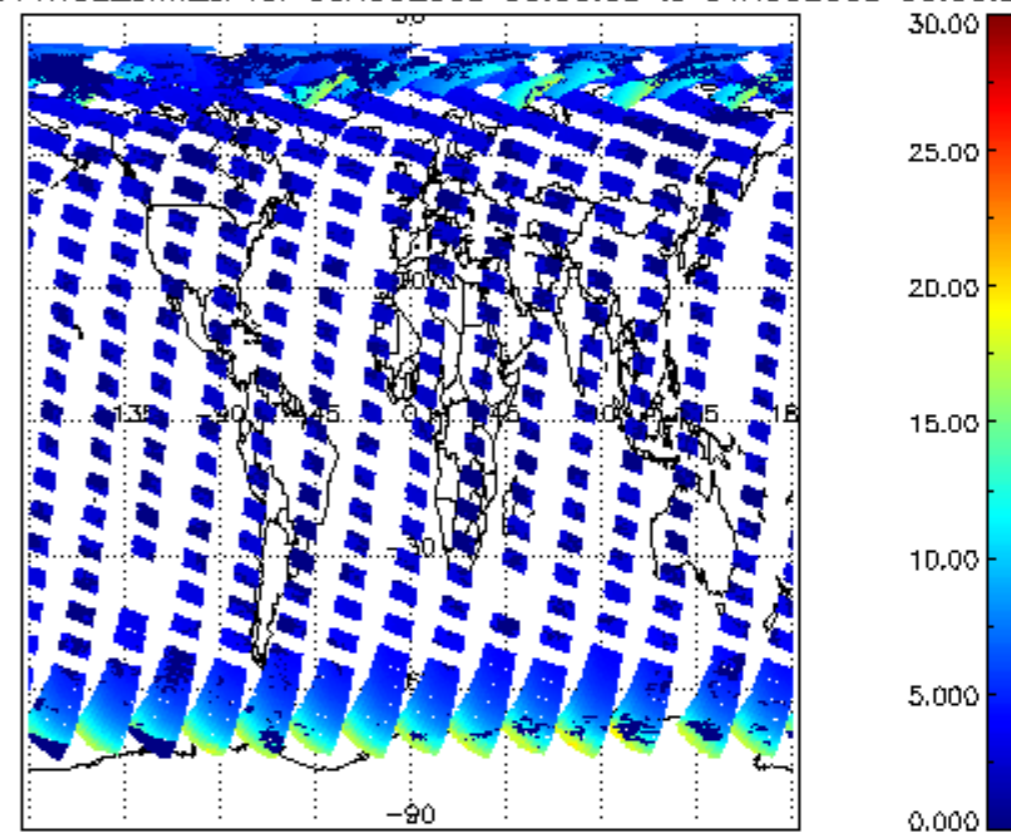
SCIOL2P_NADUV1NO2_vcd_err for 30AUG2009 00:00:00 to 31AUG2009 00:00:00



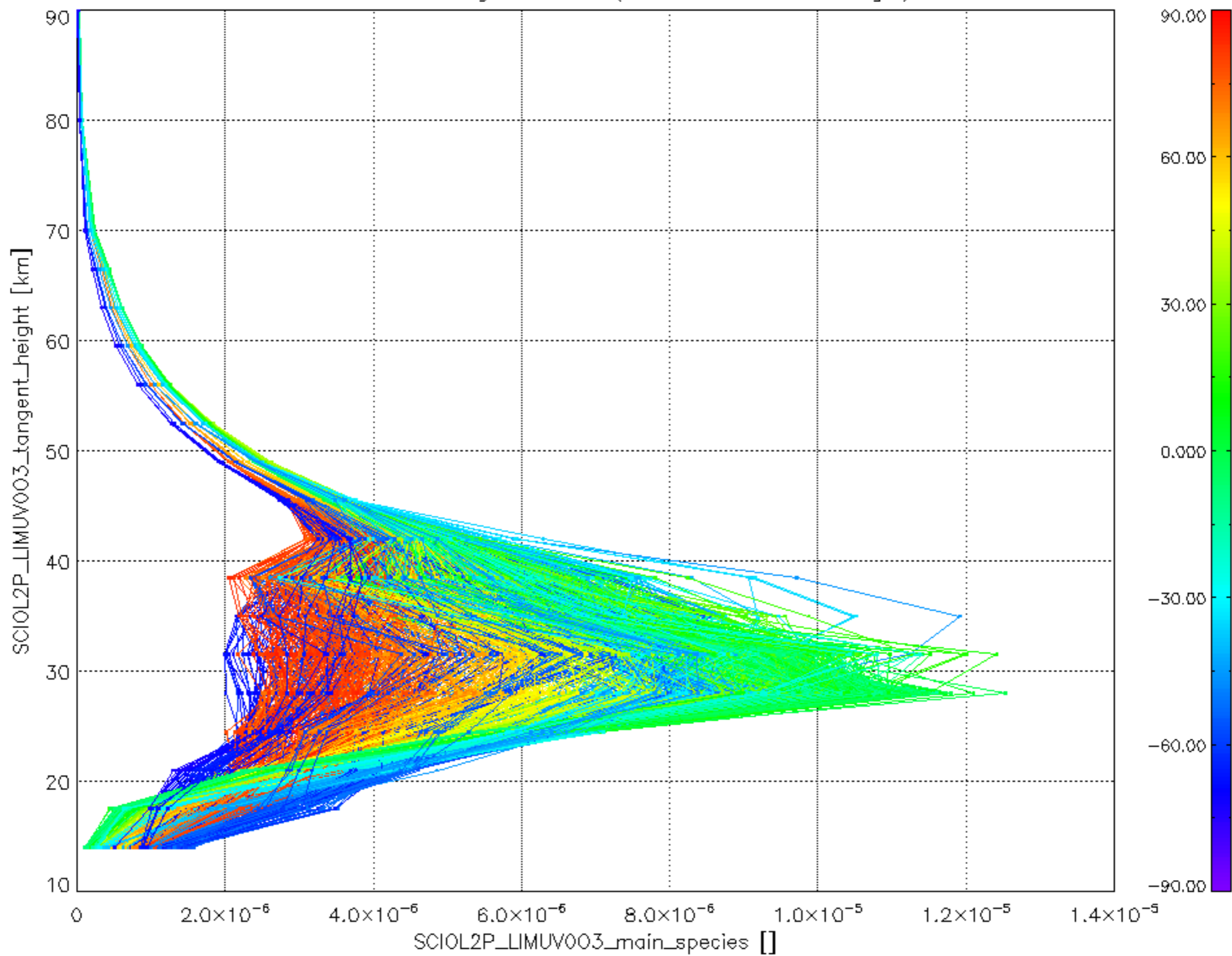
SCIOL2P_NADUV1NO2_amf_gr for 30AUG2009 00:00:00 to 31AUG2009 00:00:00



SCIOL2P_NADUV1NO2_amf_cl for 30AUG2009 00:00:00 to 31AUG2009 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).

