

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	08AUG2008 16:49:28
Data source version	SCIA-OL/3.01-R
Processing scope for products	19MAR2004 00:00:00 to 20MAR2004 00:00:00
Start time of first product within scope	18MAR2004 23:44:22
Stop time of last product within scope	20MAR2004 00:08:27
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__2PRDPA20040318_234422_000033492025_00145_10720_7078.N1	18MAR2004 23:44:22	19MAR2004 00:40:11	0	GOOD
1	SCI_OL__2PRDPA20040319_012457_000033772025_00146_10721_7093.N1	19MAR2004 01:24:57	19MAR2004 02:21:14	0	GOOD
2	SCI_OL__2PRDPA20040319_030532_000033492025_00147_10722_7131.N1	19MAR2004 03:05:32	19MAR2004 04:01:22	0	GOOD
3	SCI_OL__2PRDPA20040319_044608_000033772025_00148_10723_7082.N1	19MAR2004 04:46:08	19MAR2004 05:42:25	0	GOOD
4	SCI_OL__2PRDPA20040319_062643_000033492025_00149_10724_6980.N1	19MAR2004 06:26:43	19MAR2004 07:22:33	0	GOOD
5	SCI_OL__2PRDPA20040319_080719_000033772025_00150_10725_7064.N1	19MAR2004 08:07:19	19MAR2004 09:03:36	0	GOOD
6	SCI_OL__2PRDPA20040319_094754_000033492025_00151_10726_4047.N1	19MAR2004 09:47:54	19MAR2004 10:43:44	0	GOOD
7	SCI_OL__2PRDPA20040319_112830_000033772025_00152_10727_6900.N1	19MAR2004 11:28:30	19MAR2004 12:24:47	0	GOOD
8	SCI_OL__2PRDPA20040319_130905_000033492025_00153_10728_6950.N1	19MAR2004 13:09:05	19MAR2004 14:04:55	0	GOOD
9	SCI_OL__2PRDPA20040319_144941_000033772025_00154_10729_7181.N1	19MAR2004 14:49:41	19MAR2004 15:45:58	0	GOOD
10	SCI_OL__2PRDPA20040319_163016_000033492025_00155_10730_7103.N1	19MAR2004 16:30:16	19MAR2004 17:26:06	0	GOOD
11	SCI_OL__2PRDPA20040319_181053_000033862025_00156_10731_7140.N1	19MAR2004 18:10:53	19MAR2004 19:07:20	0	GOOD
12	SCI_OL__2PRDPA20040319_195151_000033492025_00157_10732_6926.N1	19MAR2004 19:51:51	19MAR2004 20:47:41	0	GOOD
13	SCI_OL__2PRDPA20040319_213203_000033772025_00158_10733_7165.N1	19MAR2004 21:32:03	19MAR2004 22:28:20	0	GOOD
14	SCI_OL__2PRDPA20040319_231238_000033492025_00159_10734_6931.N1	19MAR2004 23:12:38	20MAR2004 00:08:27	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: 117462

Total number of cloud data DSRs with good quality flag (=0): 117462 (100.0 %)

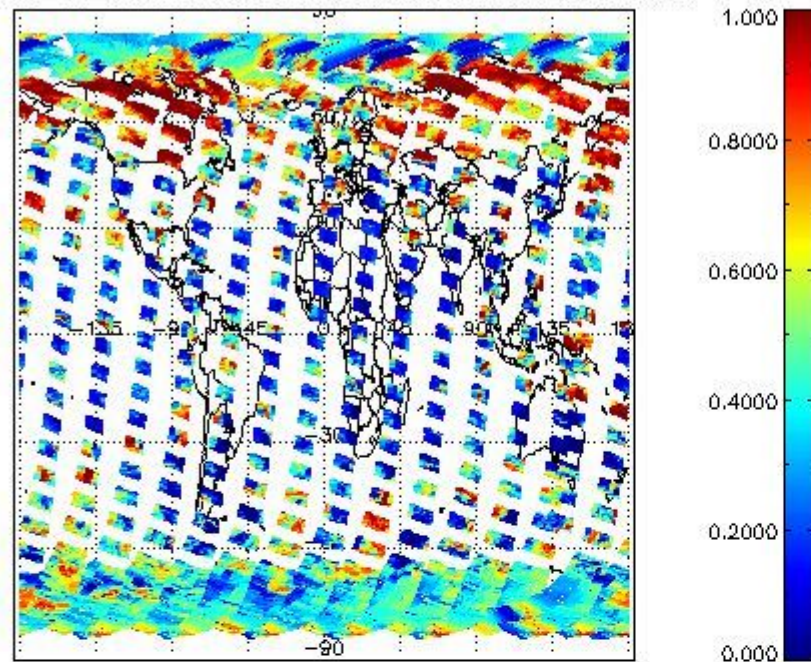
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	117462	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	117462	0.22016	0.25000	0.12500	1.0000	0.088791	s
CL_FRAC	117462	0.44679	0.40918	0.0000	1.0000	0.30727	-
CL_FRAC_ERR	117462	0.0000	0.0000	0.0000	0.0000	0.0000	rel. fraction
PMD_READ	117462	7.0451	8.0000	4.0000	32.000	2.8413	
PMD_READ_CL[0]	117462	0.50941	0.0000	0.0000	19.000	1.6071	-
PMD_READ_CL[1]	117462	0.54114	0.0000	0.0000	32.000	1.7637	-
CL_TOP_HEIGHT	107539	3.8836	2.0100	0.0000	17.000	4.0301	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	107539	52.624	38.799	0.0000	101.00	39.633	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	117462	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	117462	11000110	11000100	11000000	11100000	2570.1	flags
AERO_ABSO_IND	117462	0.84692	0.75183	-4.0933	12.062	1.1203	
AERO_IND_DIAG	117462	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	117462	01101011	11000000	00000000	11000000	24407.	flags

Time and geolocation plots:

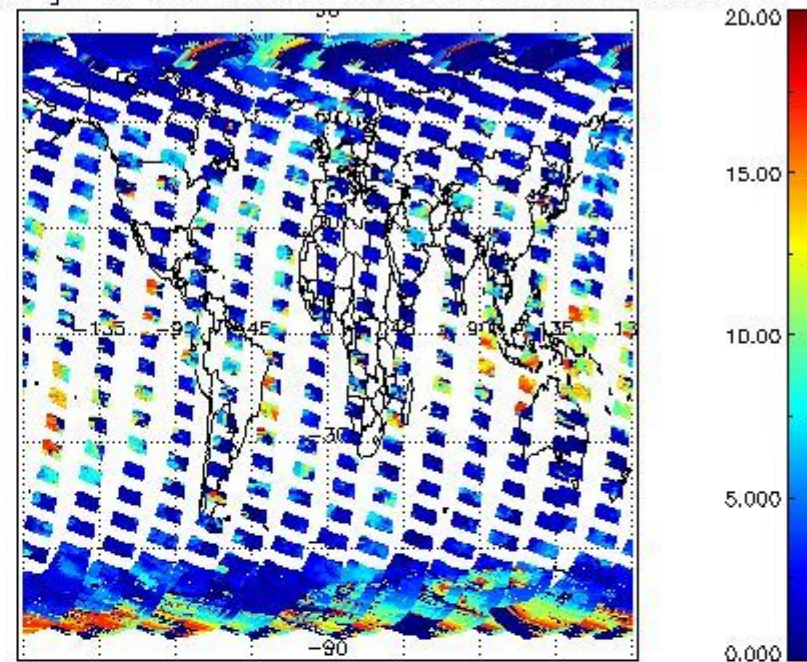
Plots are available for the following parameters:

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

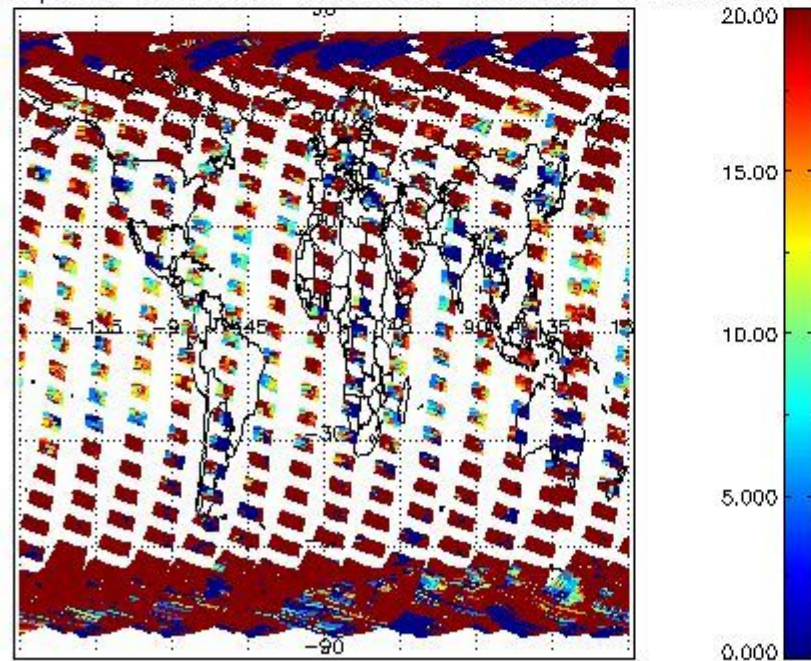
cL_frac for 19MAR2004 00:00:00 to 20MAR2004 00:00:00



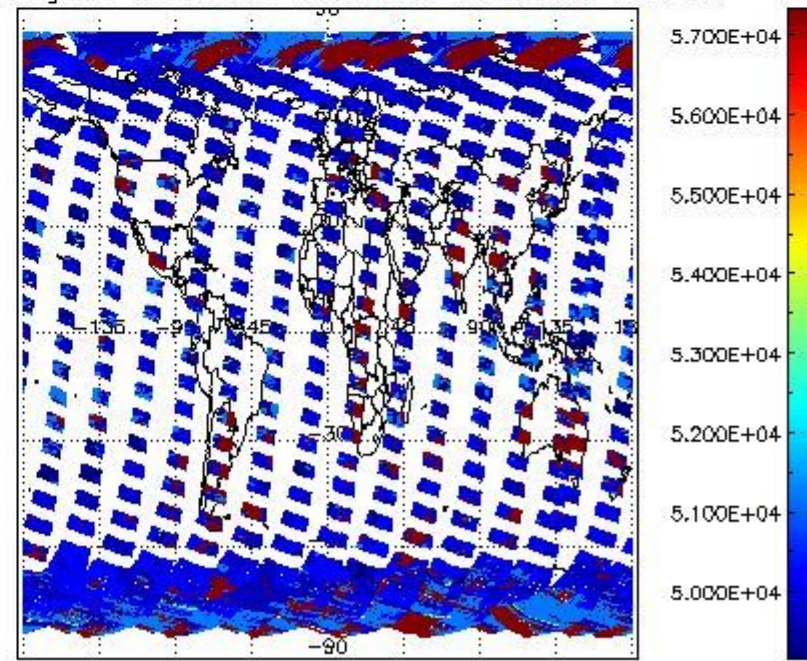
cL_top_height for 19MAR2004 00:00:00 to 20MAR2004 00:00:00



cL_opt_depth for 19MAR2004 00:00:00 to 20MAR2004 00:00:00



cloud_flags for 19MAR2004 00:00:00 to 20MAR2004 00:00:00



2.2.2 Nadir

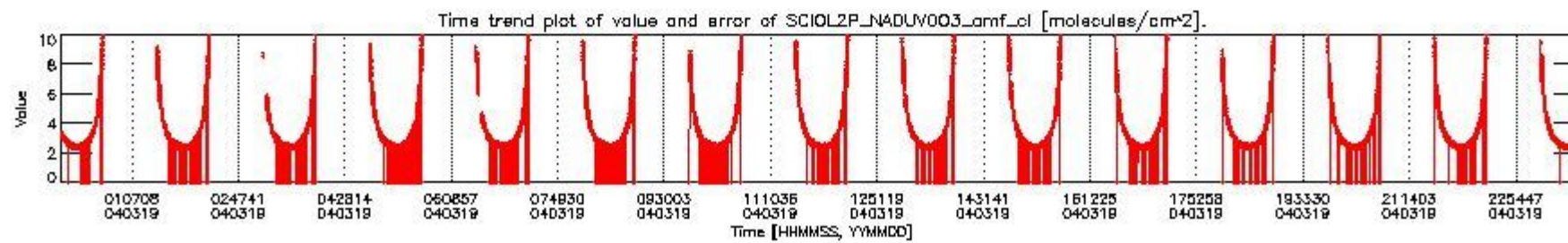
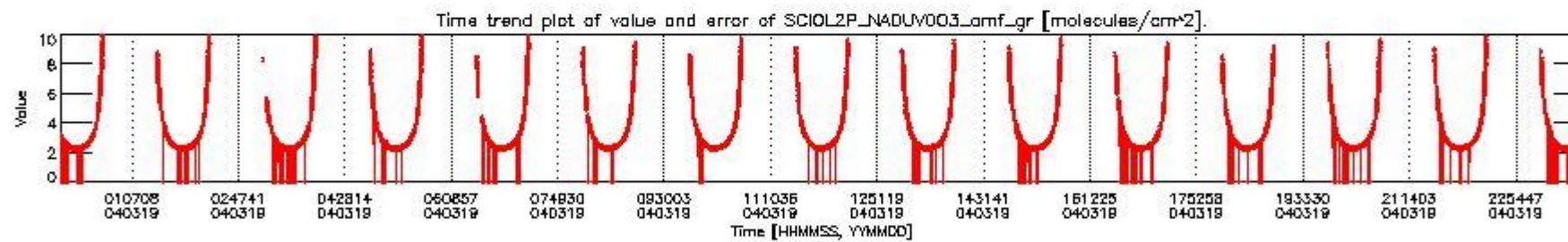
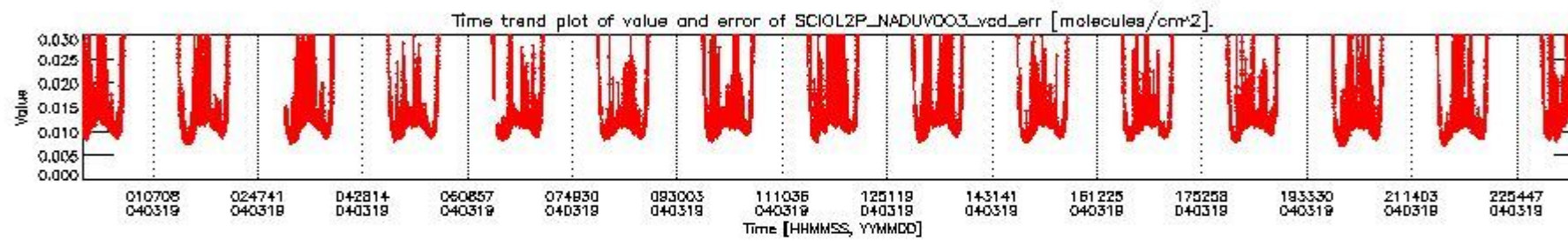
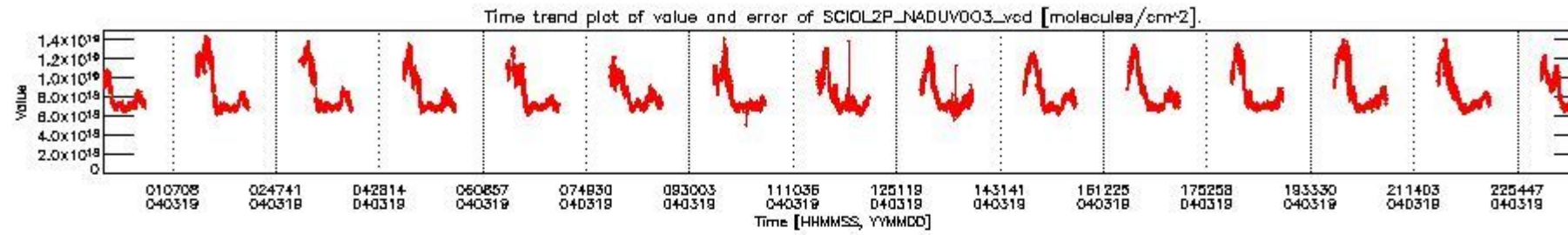
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

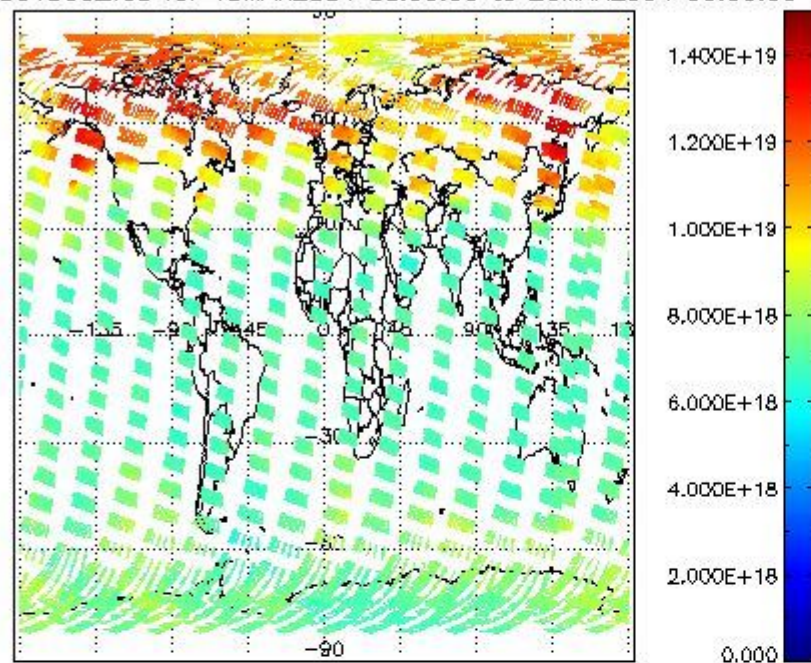
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

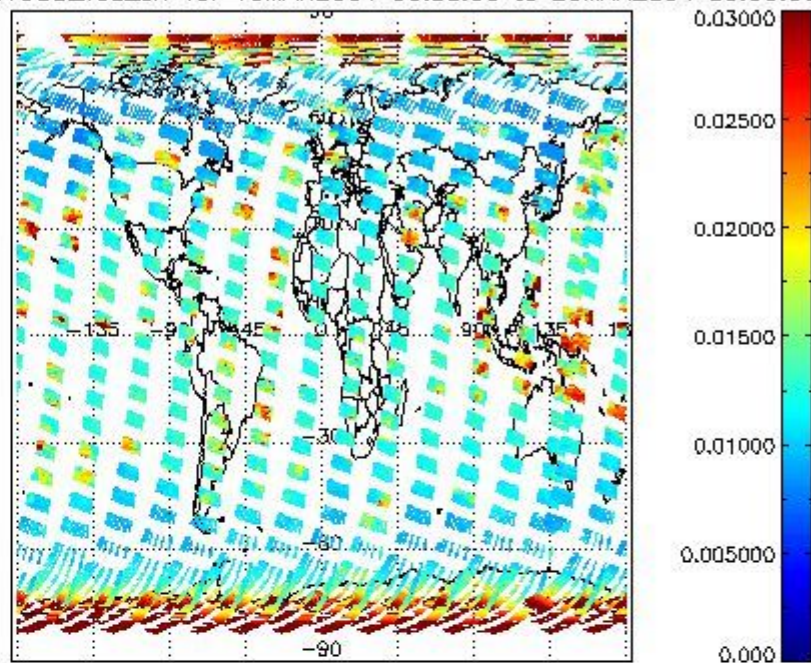
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



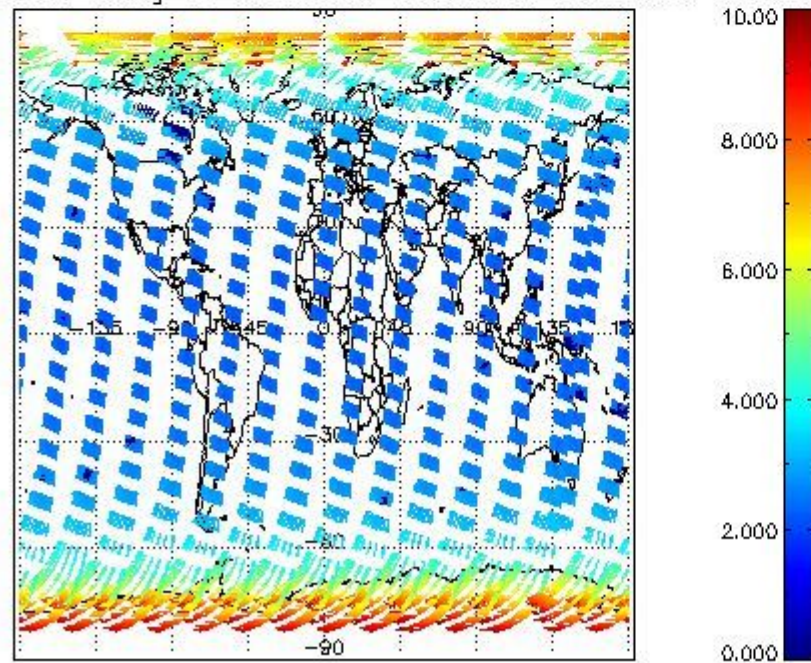
SCIOL2P_NADUV003_vcd for 19MAR2004 00:00:00 to 20MAR2004 00:00:00



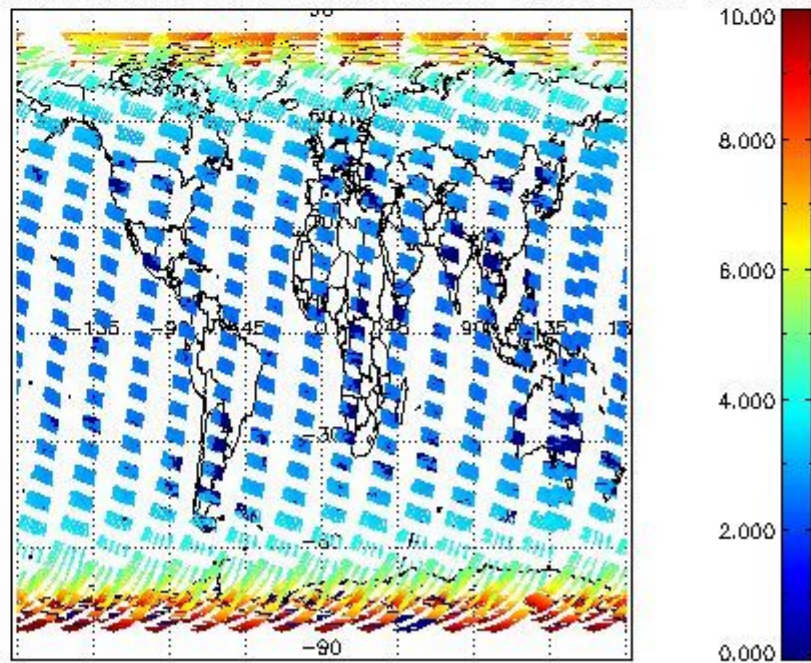
SCIOL2P_NADUV003_vcd_err for 19MAR2004 00:00:00 to 20MAR2004 00:00:00

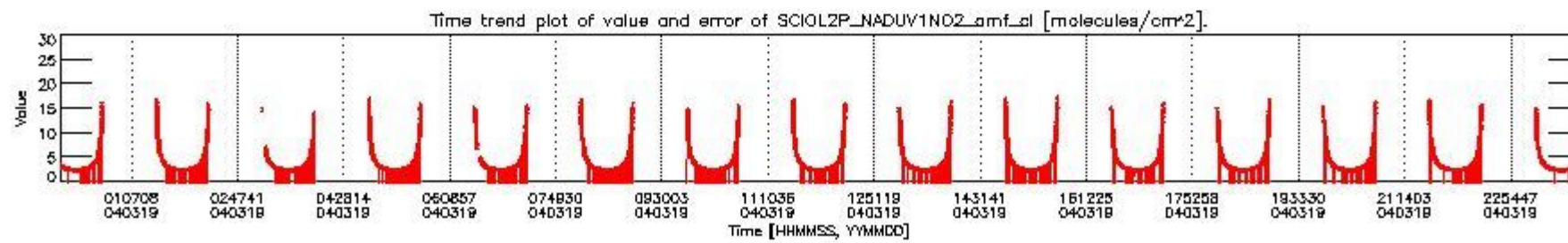
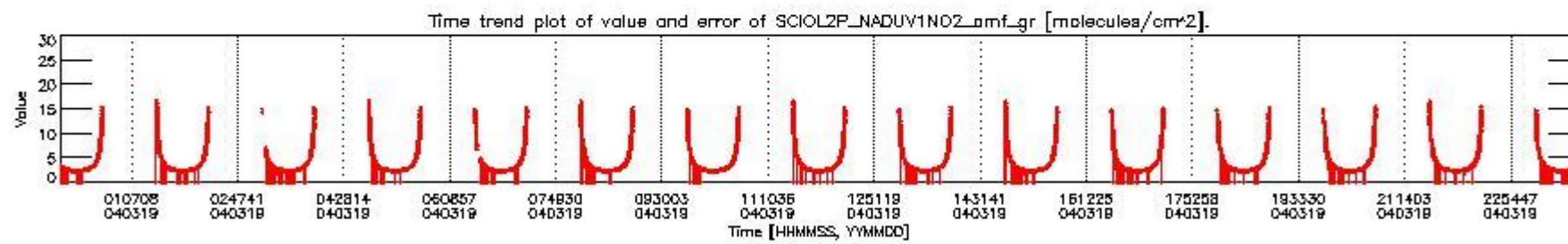
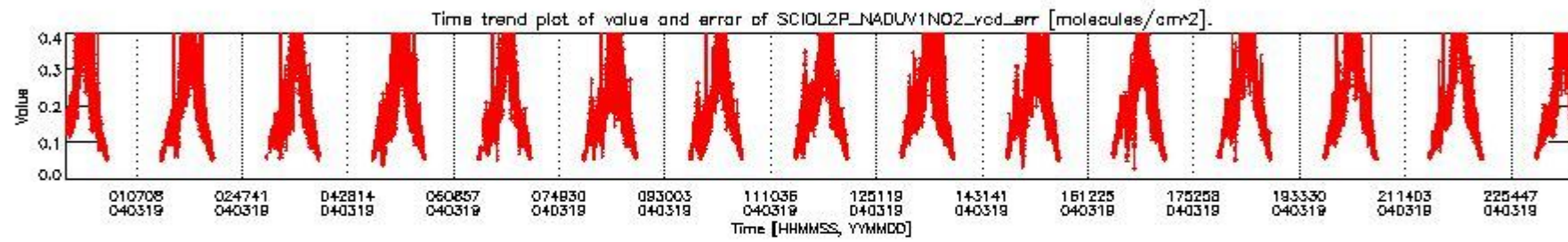
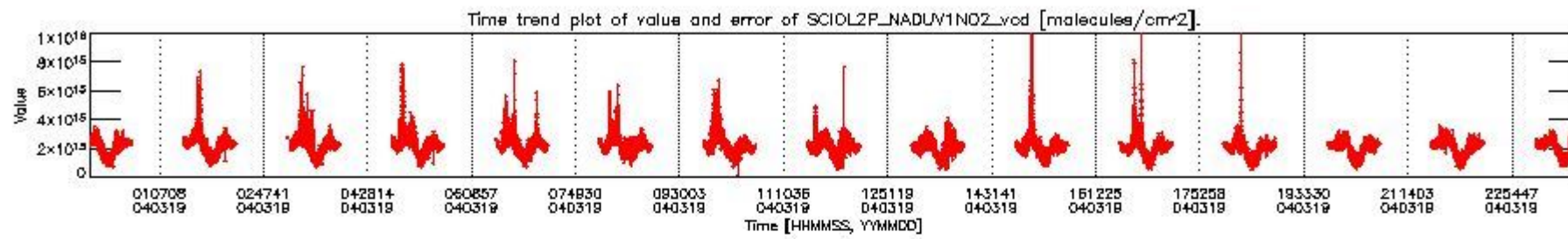


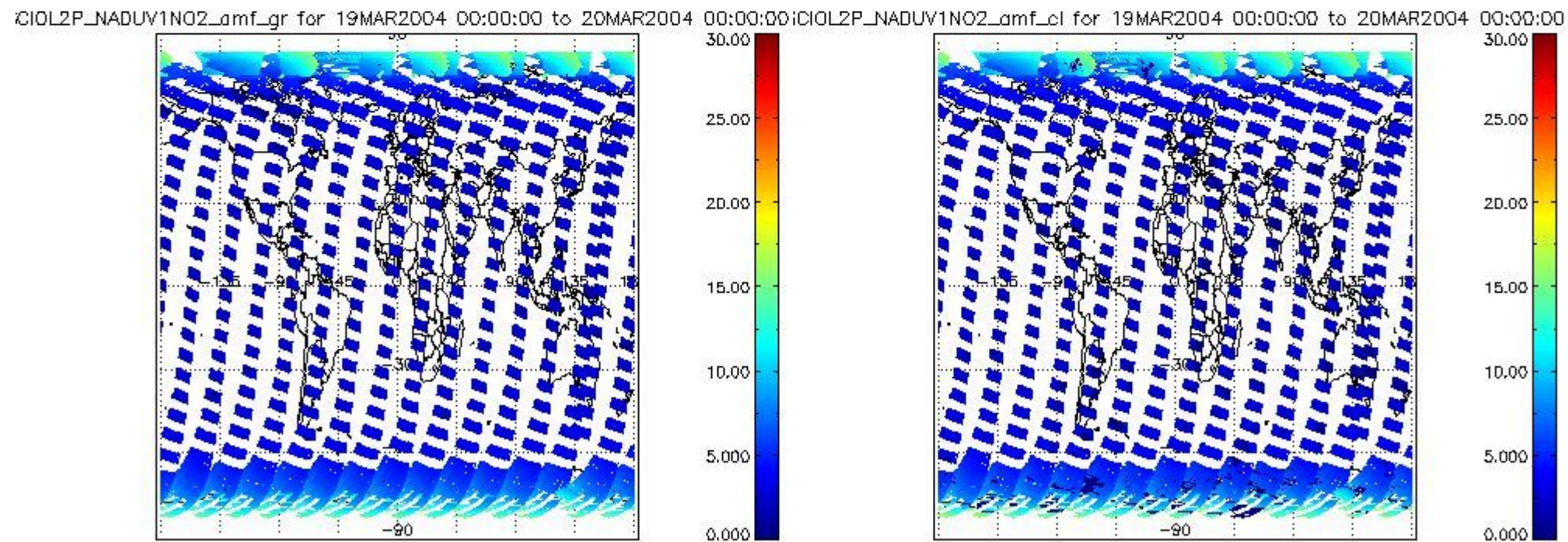
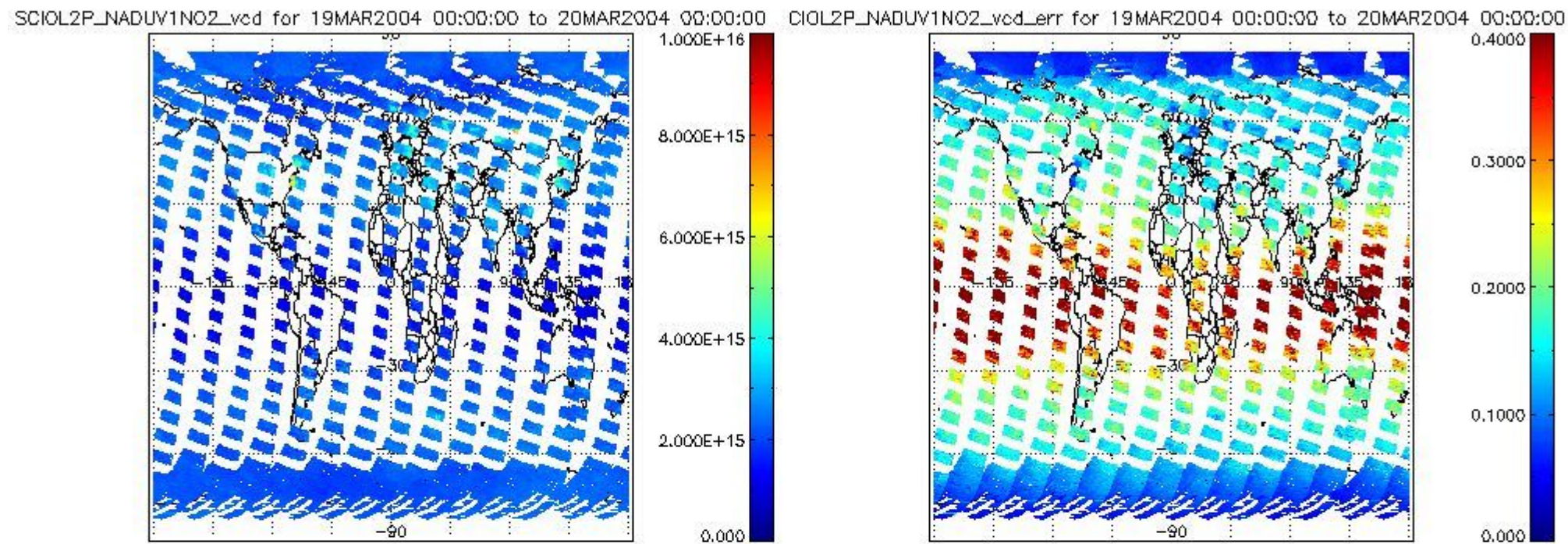
SCIOL2P_NADUV003_amf_gr for 19MAR2004 00:00:00 to 20MAR2004 00:00:00



SCIOL2P_NADUV003_amf_cl for 19MAR2004 00:00:00 to 20MAR2004 00:00:00







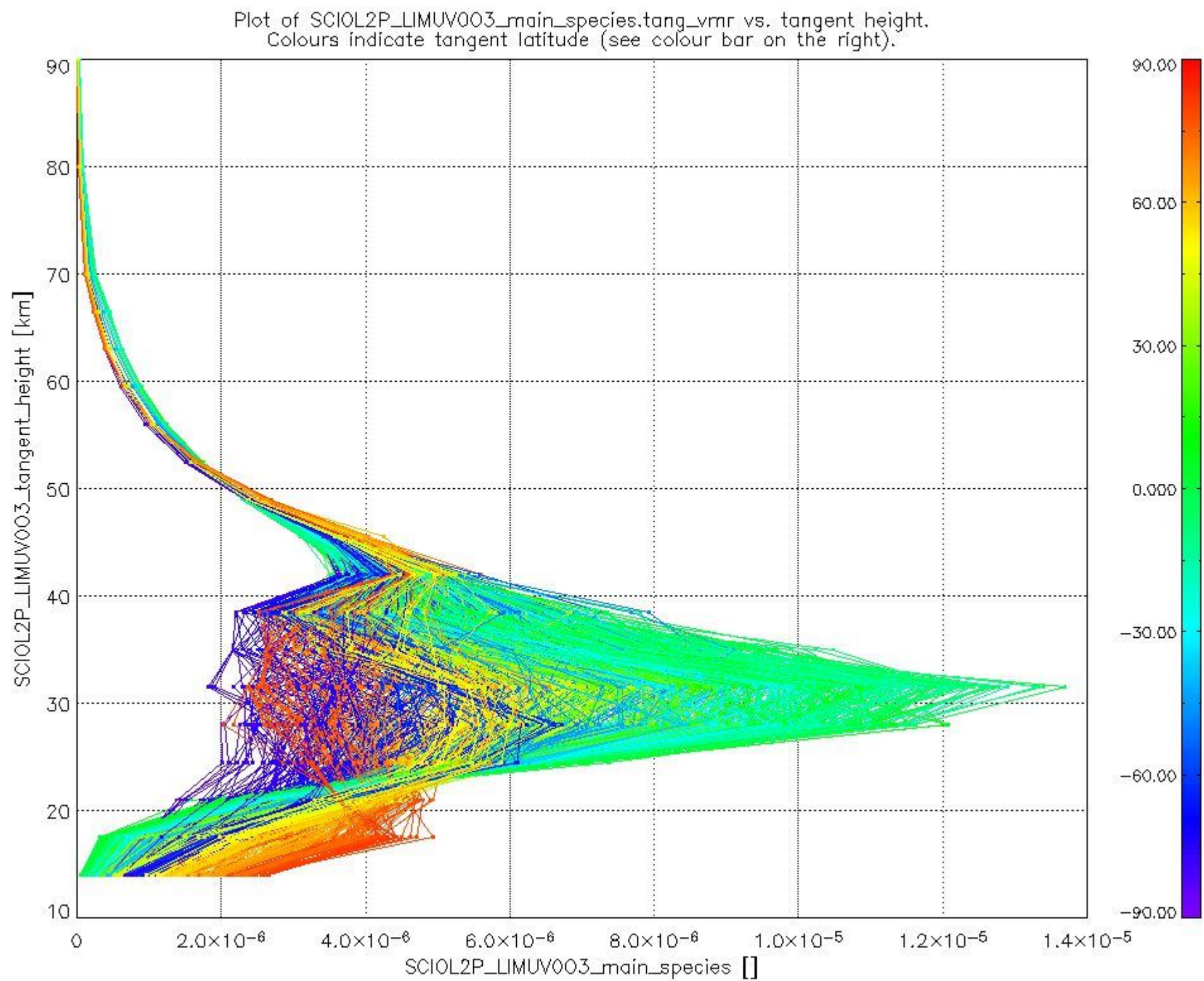
2.2.3 Limb

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

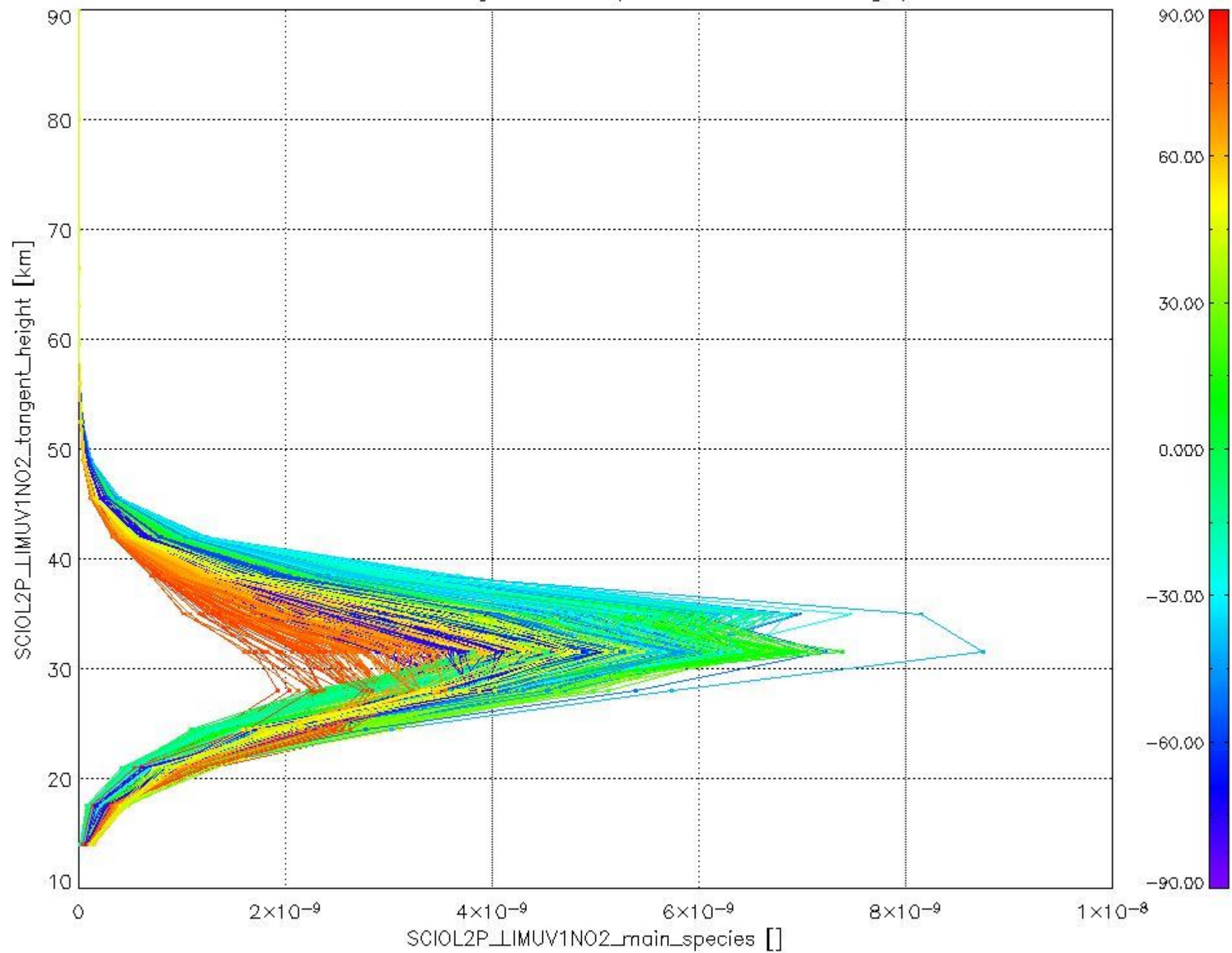
The following data items are currently included into this section:

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.



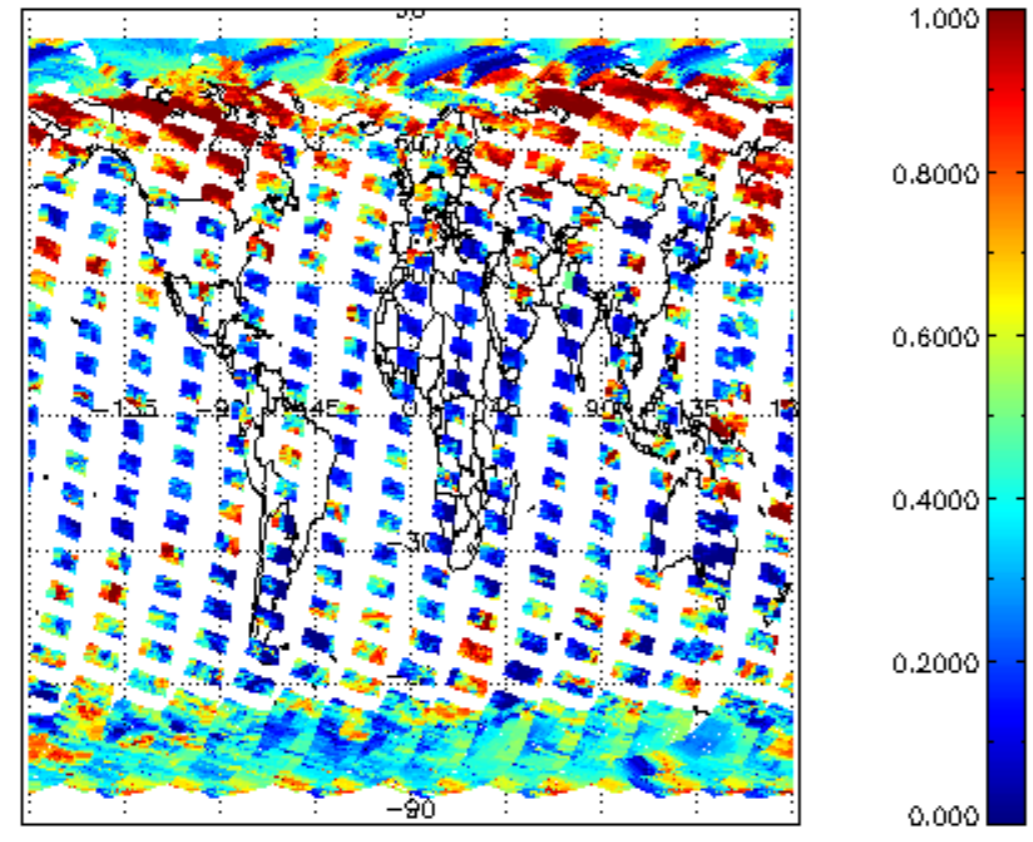
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



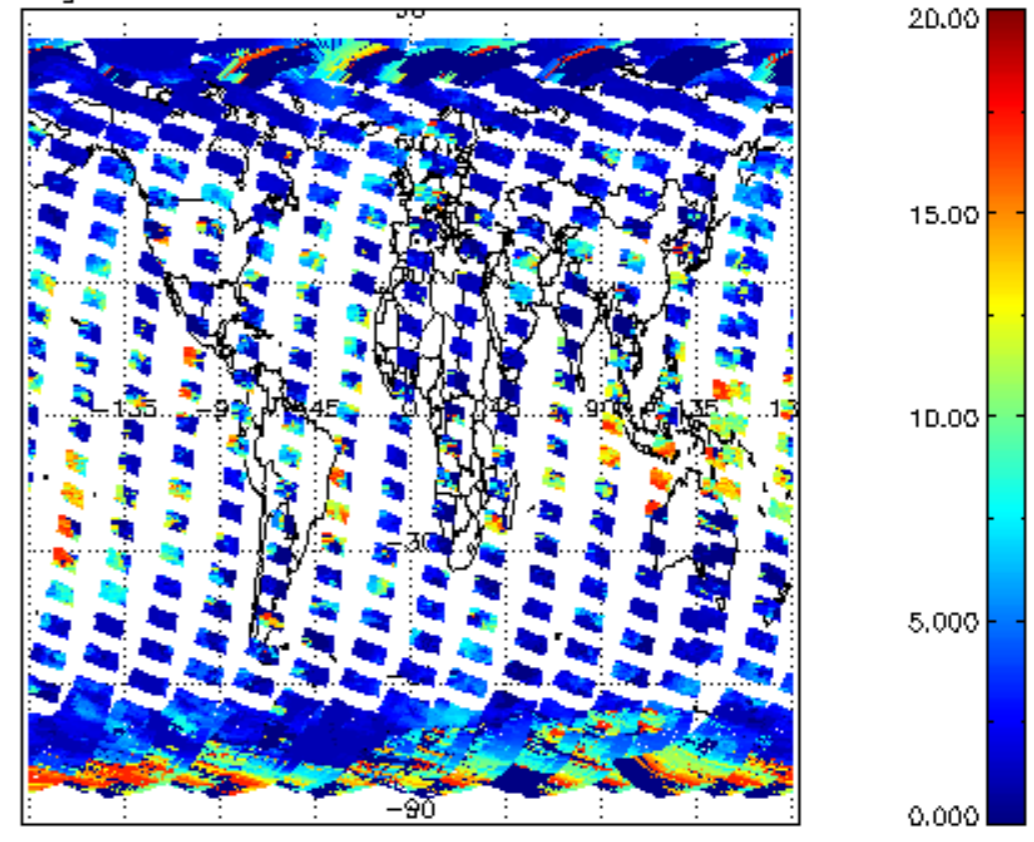
2.3 ADF monitoring

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

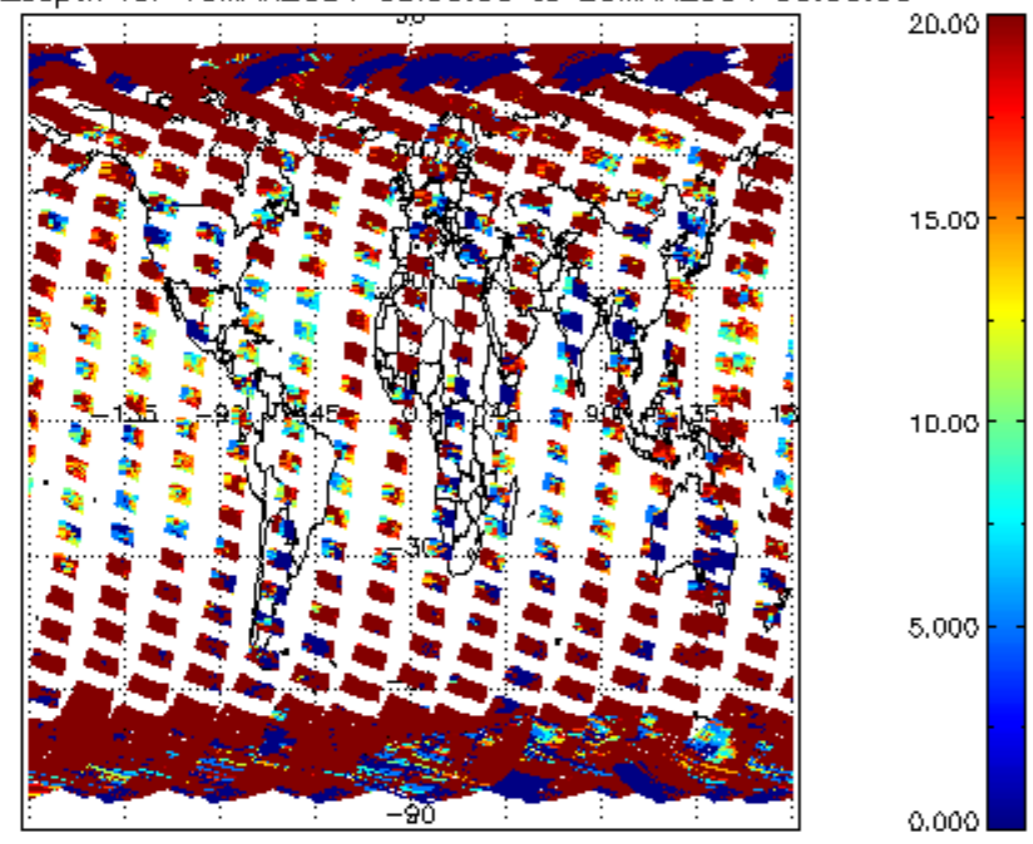
cL_frac for 19MAR2004 00:00:00 to 20MAR2004 00:00:00



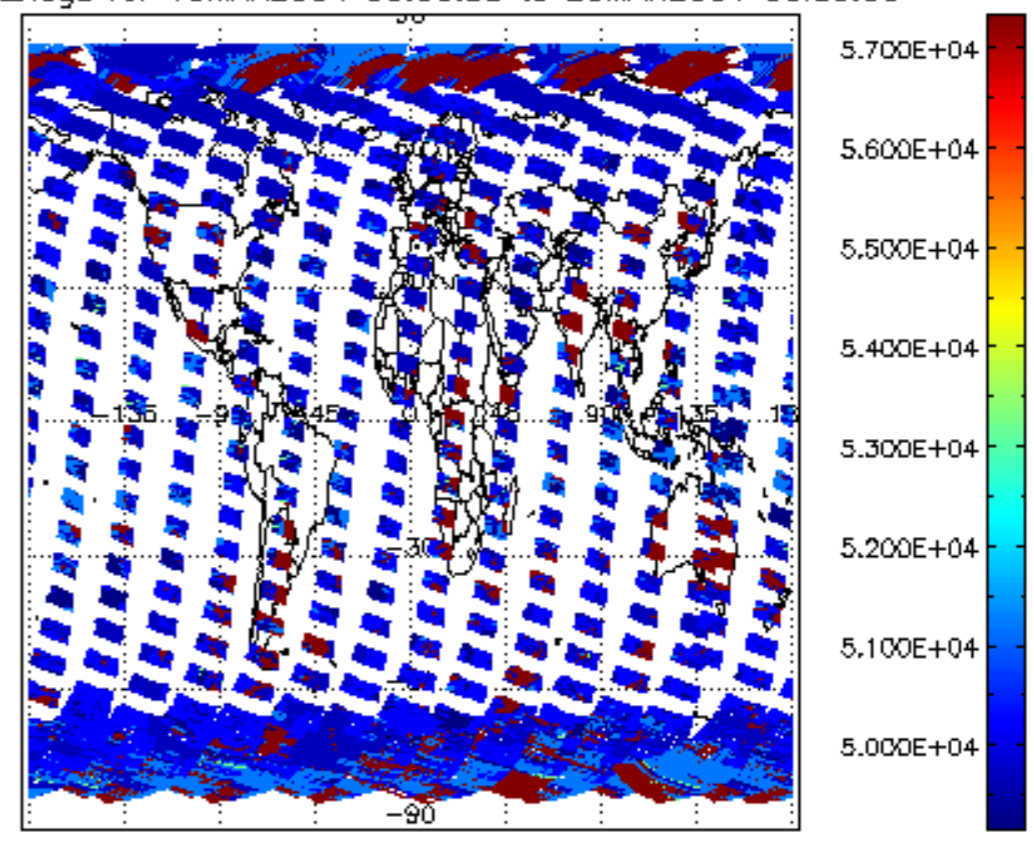
cL_top_height for 19MAR2004 00:00:00 to 20MAR2004 00:00:00

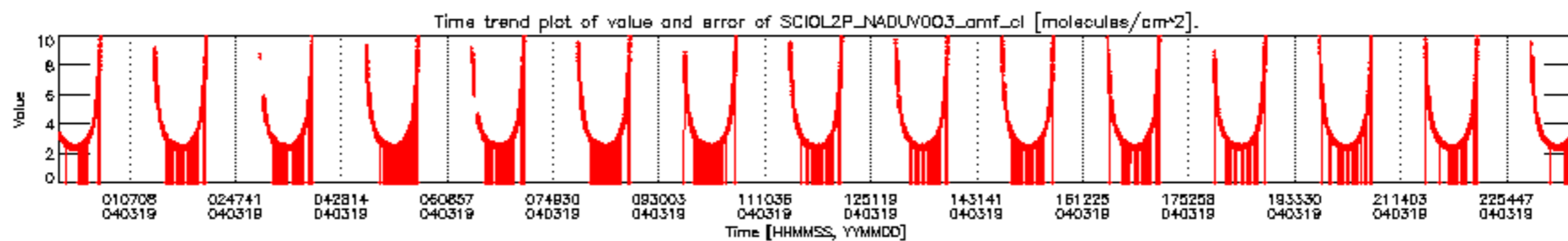
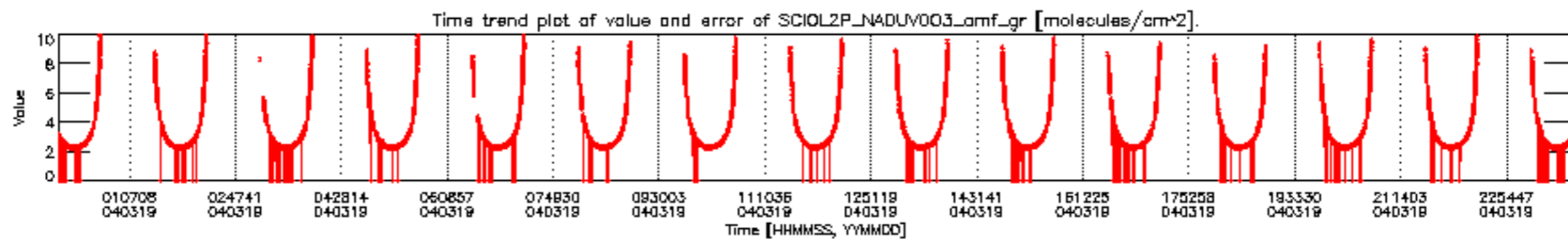
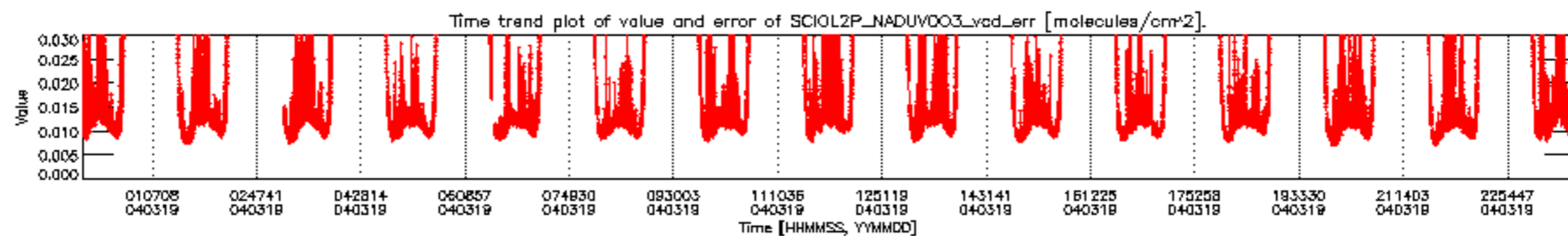
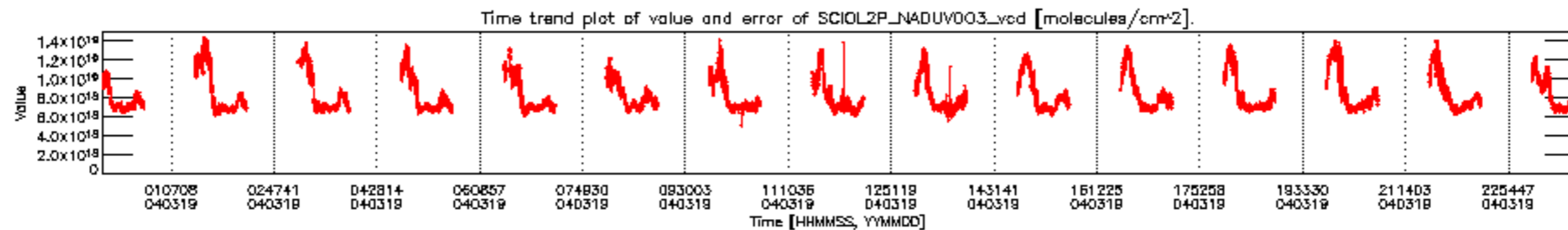


cL_opt_depth for 19MAR2004 00:00:00 to 20MAR2004 00:00:00

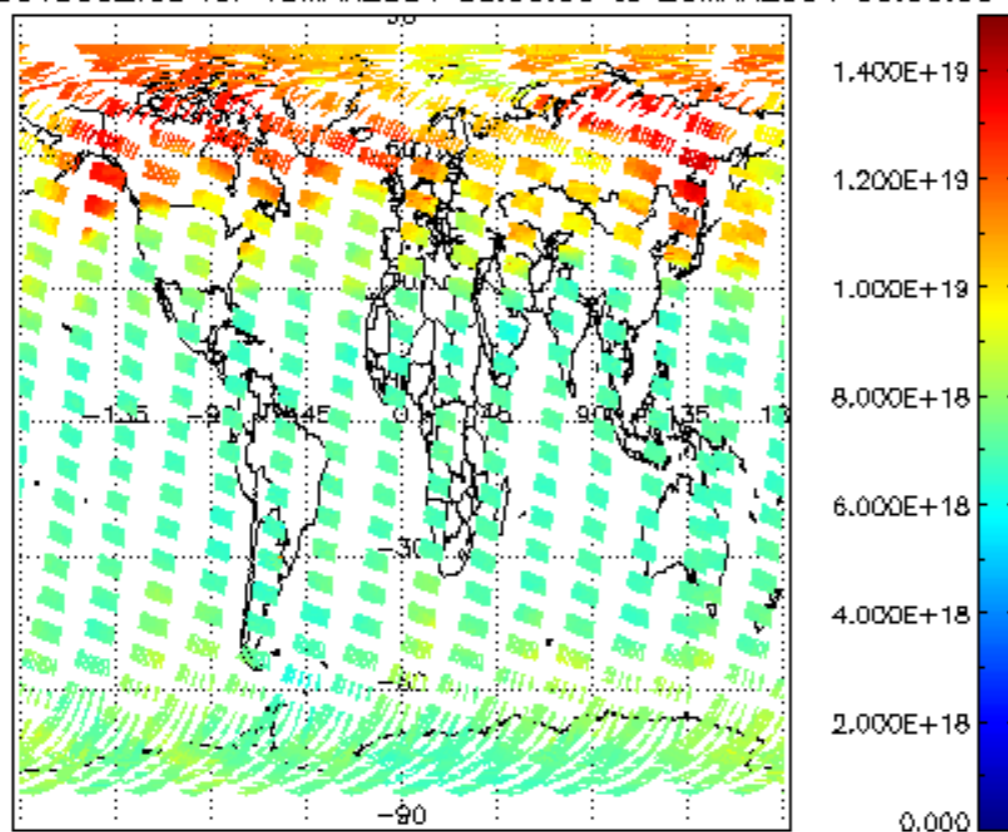


cloud_flags for 19MAR2004 00:00:00 to 20MAR2004 00:00:00

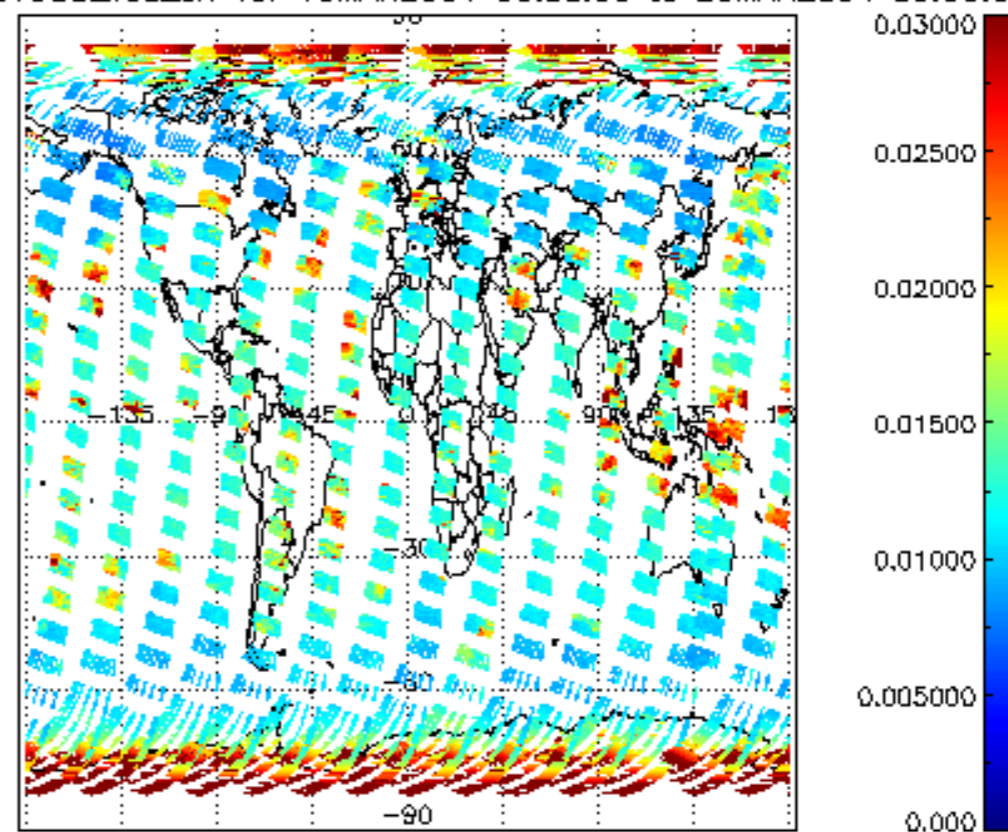




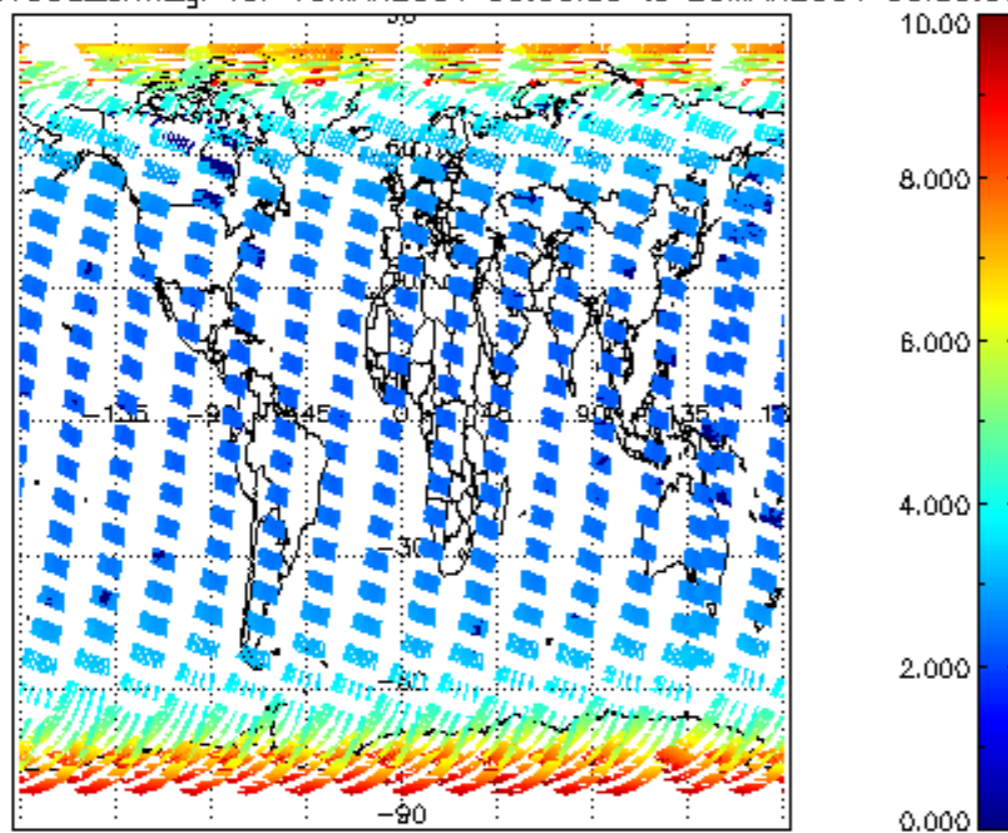
SCIOL2P_NADUV003_vcd for 19MAR2004 00:00:00 to 20MAR2004 00:00:00



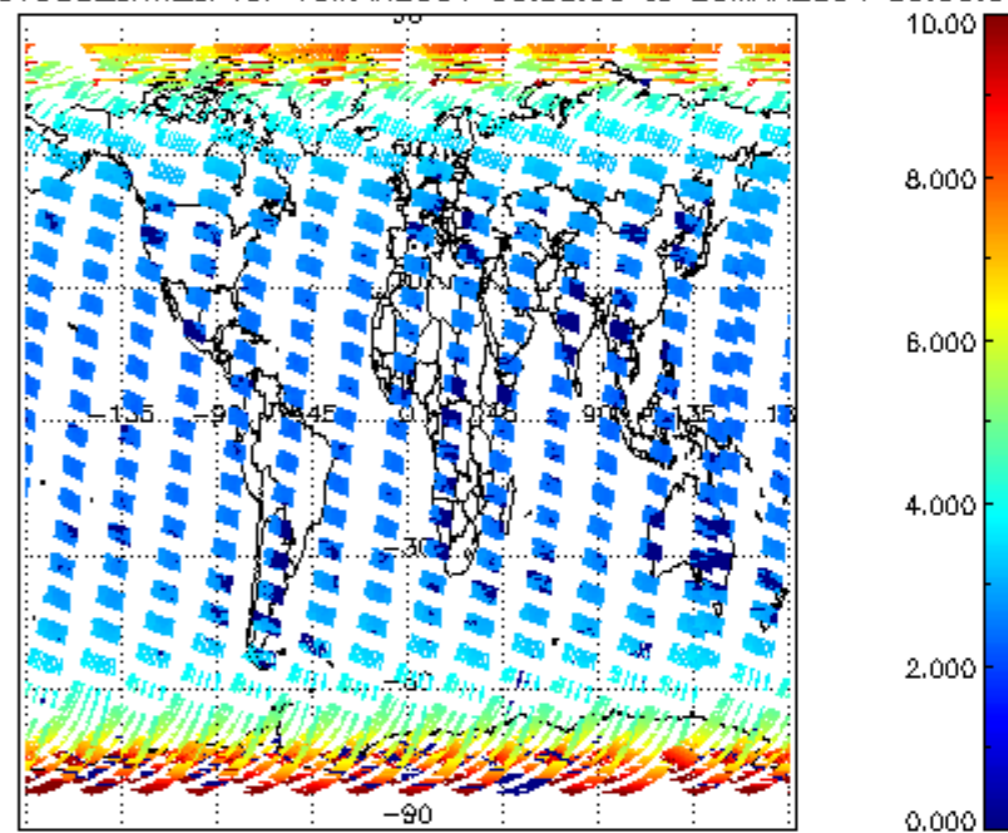
SCIOL2P_NADUV003_vcd_err for 19MAR2004 00:00:00 to 20MAR2004 00:00:00

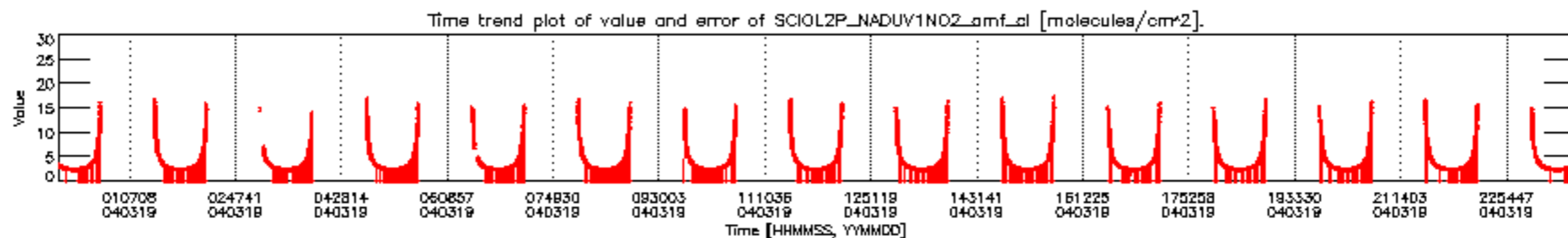
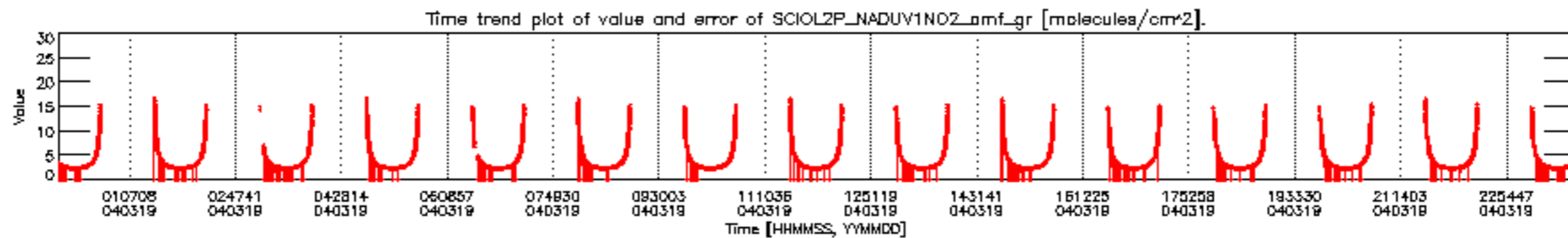
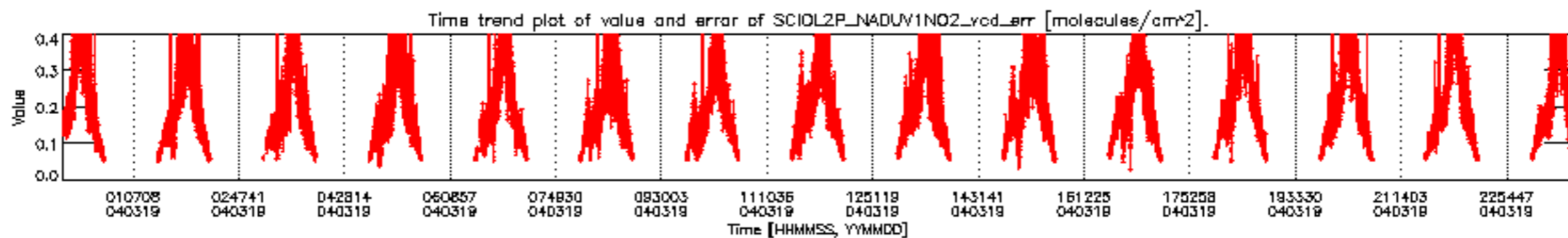
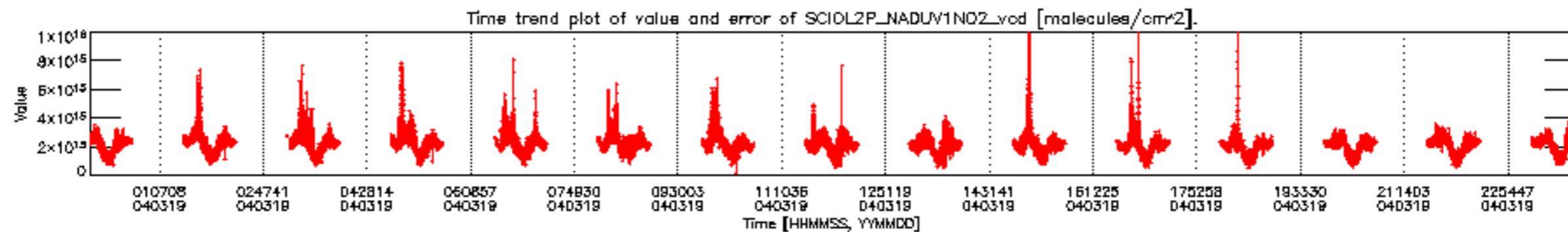


SCIOL2P_NADUV003_amf_gr for 19MAR2004 00:00:00 to 20MAR2004 00:00:00

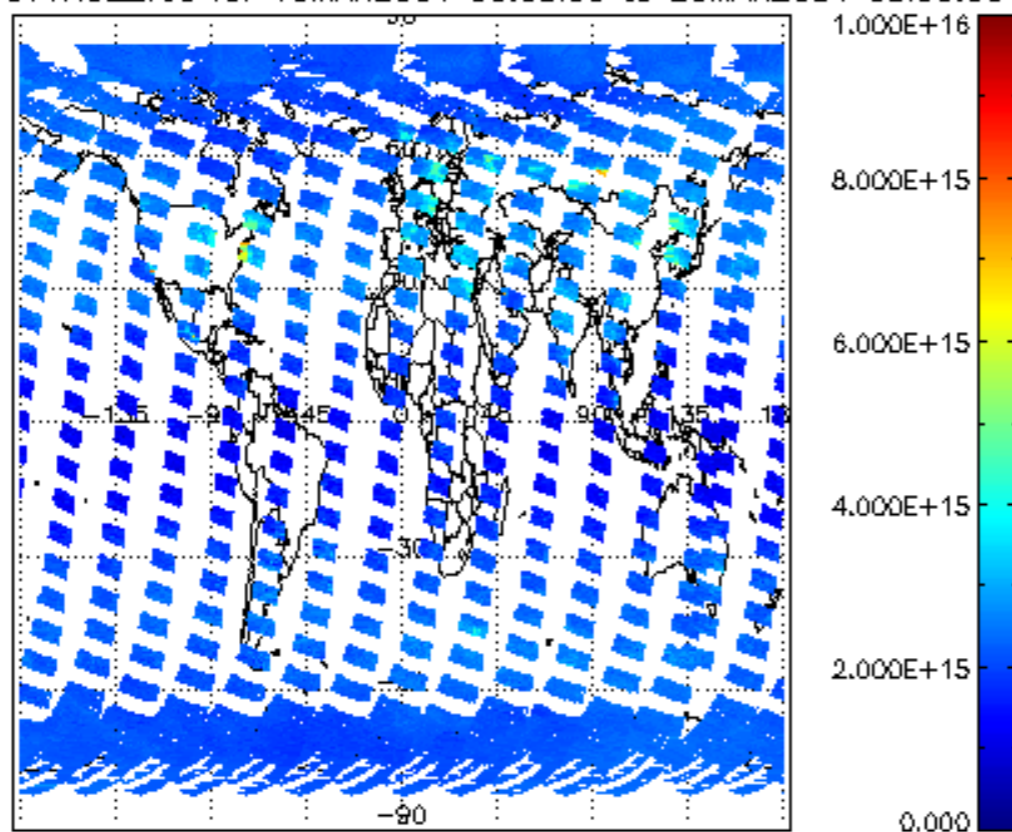


SCIOL2P_NADUV003_amf_cl for 19MAR2004 00:00:00 to 20MAR2004 00:00:00

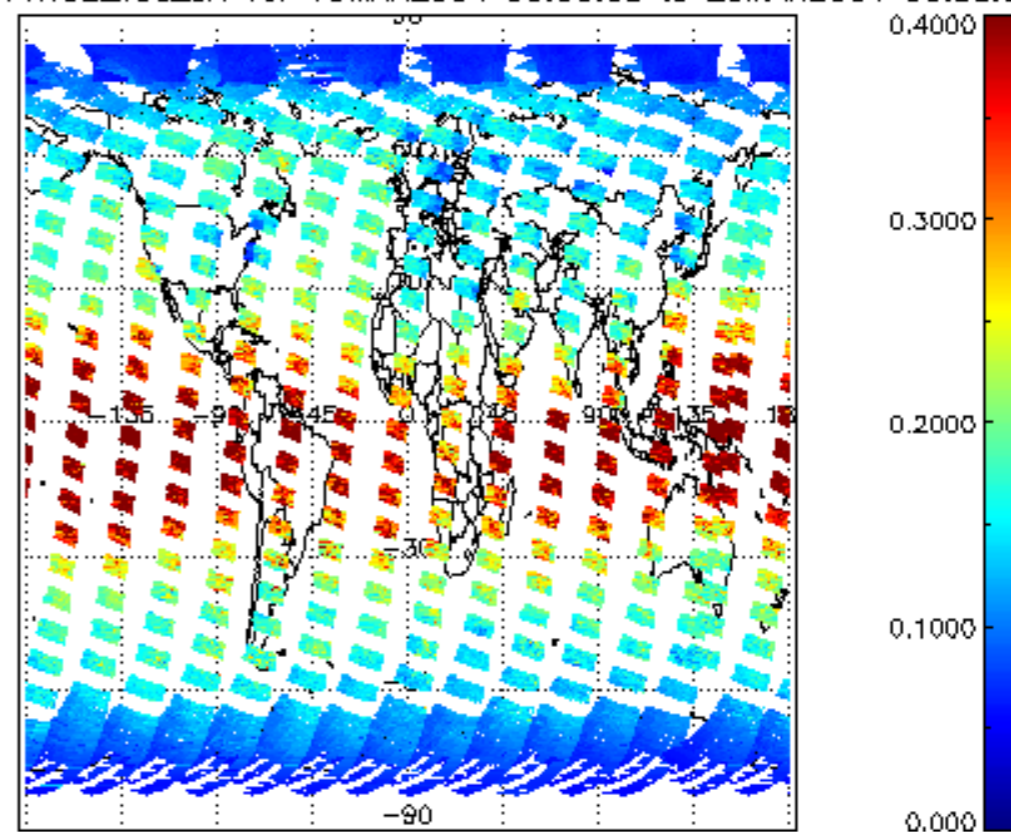




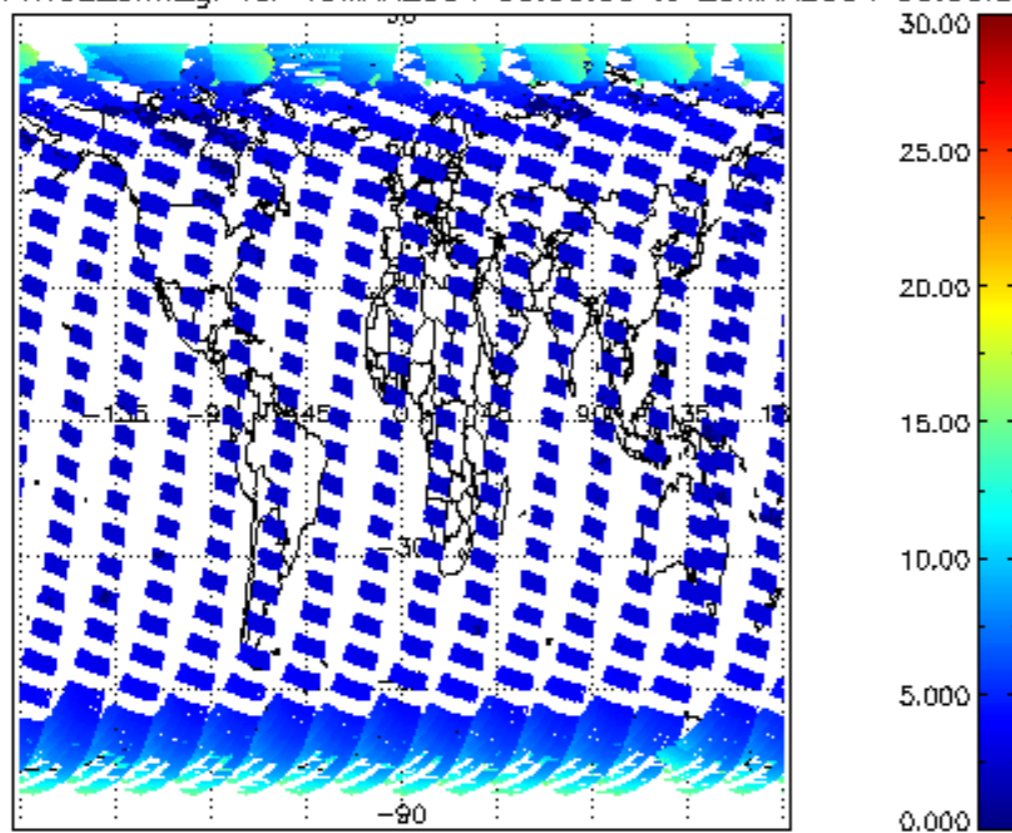
SCIOL2P_NADUV1NO2_vcd for 19MAR2004 00:00:00 to 20MAR2004 00:00:00



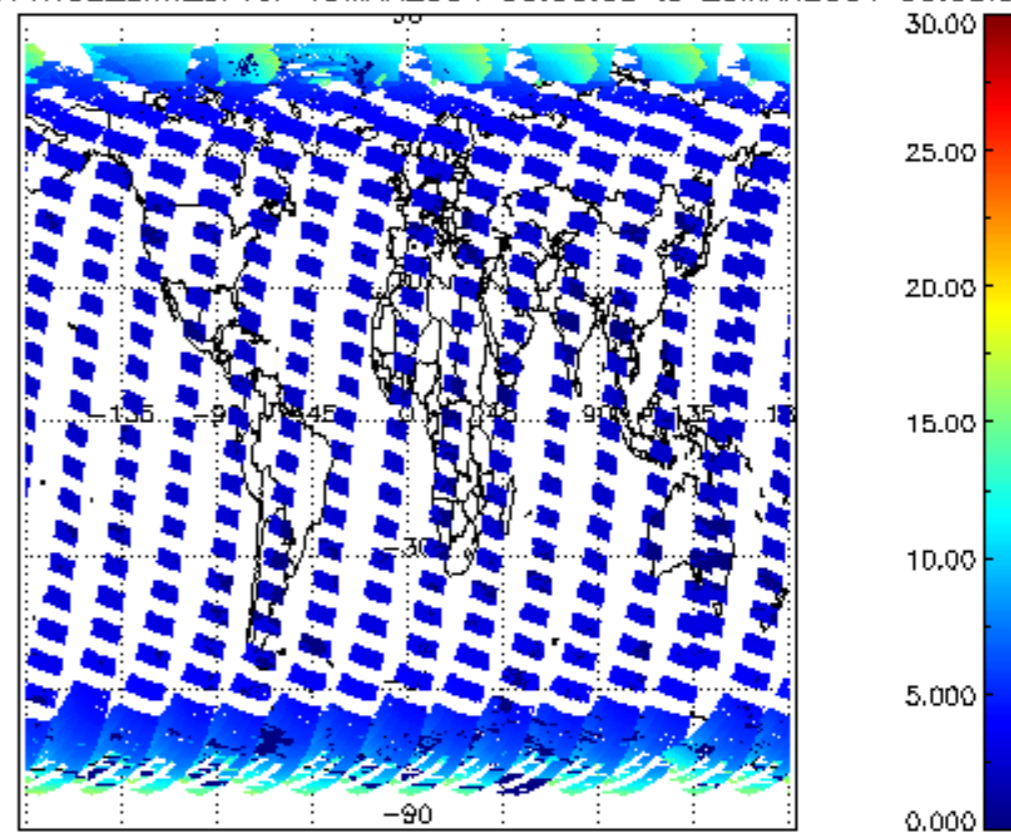
SCIOL2P_NADUV1NO2_vcd_err for 19MAR2004 00:00:00 to 20MAR2004 00:00:00



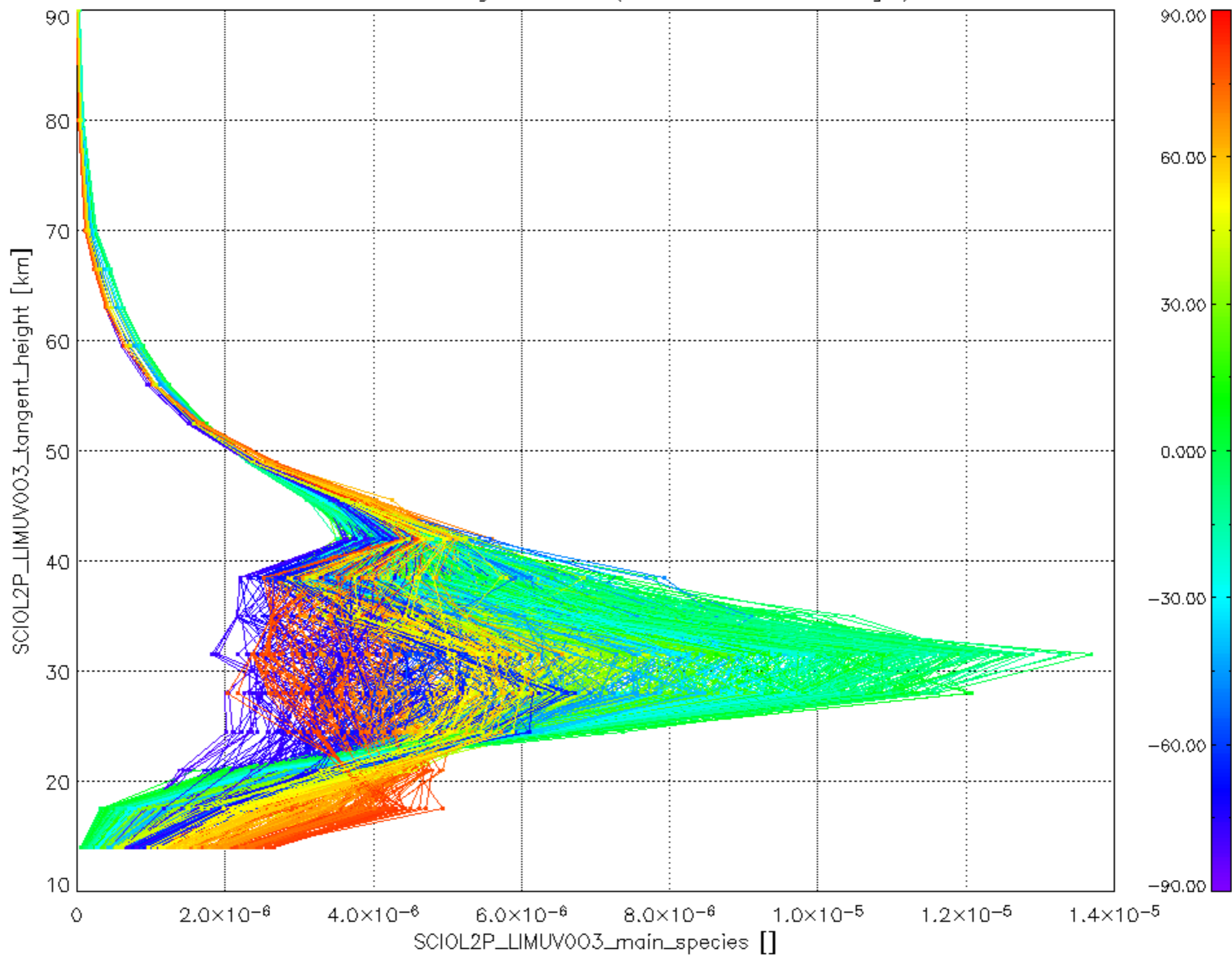
SCIOL2P_NADUV1NO2_amf_gr for 19MAR2004 00:00:00 to 20MAR2004 00:00:00



SCIOL2P_NADUV1NO2_amf_cl for 19MAR2004 00:00:00 to 20MAR2004 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).

