

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	18AUG2008 16:04:43
Data source version	SCIA-OL/3.01-R
Processing scope for products	14MAY2004 00:00:00 to 15MAY2004 00:00:00
Start time of first product within scope	13MAY2004 22:39:01
Stop time of last product within scope	15MAY2004 00:43:45
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__2PRDPA20040513_223901_000032932026_00445_11521_7798.N1	13MAY2004 22:39:01	13MAY2004 23:33:54	0	GOOD
1	SCI_OL__2PRDPA20040514_001937_000033492026_00446_11522_7803.N1	14MAY2004 00:19:37	14MAY2004 01:15:26	0	GOOD
2	SCI_OL__2PRDPA20040514_020012_000032932026_00447_11523_7822.N1	14MAY2004 02:00:12	14MAY2004 02:55:06	0	GOOD
3	SCI_OL__2PRDPA20040514_034048_000033492026_00448_11524_7779.N1	14MAY2004 03:40:48	14MAY2004 04:36:37	0	GOOD
4	SCI_OL__2PRDPA20040514_052124_000032932026_00449_11525_7751.N1	14MAY2004 05:21:24	14MAY2004 06:16:17	0	GOOD
5	SCI_OL__2PRDPA20040514_070159_000033492026_00450_11526_7714.N1	14MAY2004 07:01:59	14MAY2004 07:57:49	0	GOOD
6	SCI_OL__2PRDPA20040514_084235_000032932026_00451_11527_7817.N1	14MAY2004 08:42:35	14MAY2004 09:37:28	0	GOOD
7	SCI_OL__2PRDPA20040514_102311_000033492026_00452_11528_7791.N1	14MAY2004 10:23:11	14MAY2004 11:19:00	0	GOOD
8	SCI_OL__2PRDPA20040514_120346_000032932026_00453_11529_7730.N1	14MAY2004 12:03:46	14MAY2004 12:58:40	0	GOOD
9	SCI_OL__2PRDPA20040514_134422_000033492026_00454_11530_7716.N1	14MAY2004 13:44:22	14MAY2004 14:40:11	0	GOOD
10	SCI_OL__2PRDPA20040514_152458_000032932026_00455_11531_7795.N1	14MAY2004 15:24:58	14MAY2004 16:19:51	0	GOOD
11	SCI_OL__2PRDPA20040514_170532_000033522026_00456_11532_7712.N1	14MAY2004 17:05:32	14MAY2004 18:01:25	0	GOOD
12	SCI_OL__2PRDPA20040514_184529_000033492026_00457_11533_7771.N1	14MAY2004 18:45:29	14MAY2004 19:41:18	0	GOOD
13	SCI_OL__2PRDPA20040514_202645_000033492026_00458_11534_7770.N1	14MAY2004 20:26:45	14MAY2004 21:22:34	0	GOOD
14	SCI_OL__2PRDPA20040514_220720_000032932026_00459_11535_7805.N1	14MAY2004 22:07:20	14MAY2004 23:02:14	0	GOOD
15	SCI_OL__2PRDPA20040514_234756_000033492026_00460_11536_7786.N1	14MAY2004 23:47:56	15MAY2004 00:43:45	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: 113220

Total number of cloud data DSRs with good quality flag (=0): 113220 (100.0 %)

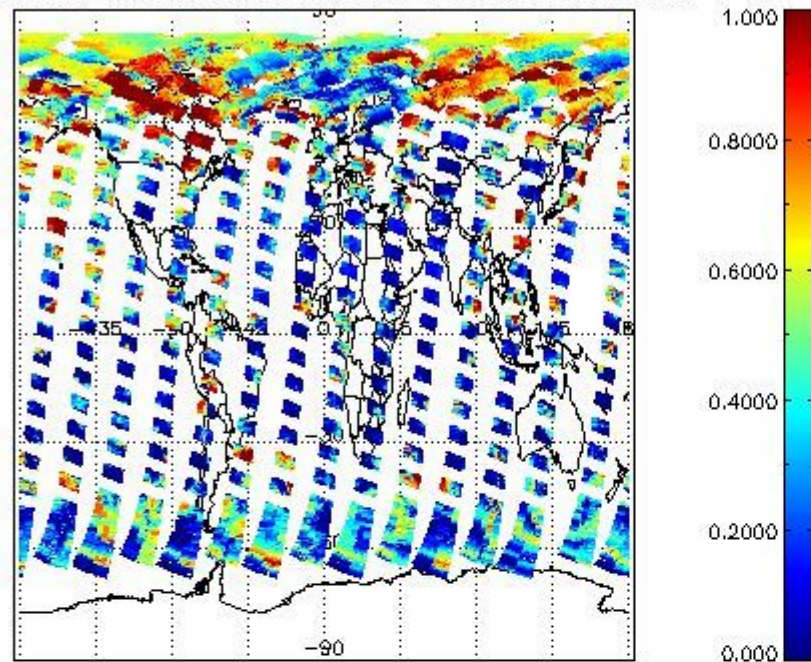
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	113220	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	113220	0.21600	0.25000	0.12500	1.0000	0.086024	s
CL_FRAC	113220	0.40750	0.37799	0.0000	1.0000	0.31955	-
CL_FRAC_ERR	113220	0.0000	0.0000	0.0000	0.0000	0.0000	rel. fraction
PMD_READ	113220	6.9119	8.0000	4.0000	32.000	2.7528	
PMD_READ_CL[0]	113220	0.55437	0.0000	0.0000	16.000	1.7678	-
PMD_READ_CL[1]	113220	1.2789	0.0000	0.0000	32.000	2.6643	-
CL_TOP_HEIGHT	103253	3.0901	1.2340	0.0000	17.000	3.5612	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	103253	57.800	56.055	0.0000	101.00	41.856	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	113220	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	113220	11001000	11000010	11000000	11100000	3091.9	flags
AERO_ABSO_IND	113220	0.80750	0.82352	-3.8464	11.378	1.0408	
AERO_IND_DIAG	113220	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	113220	01100111	11000000	00000000	11000000	24491.	flags

Time and geolocation plots:

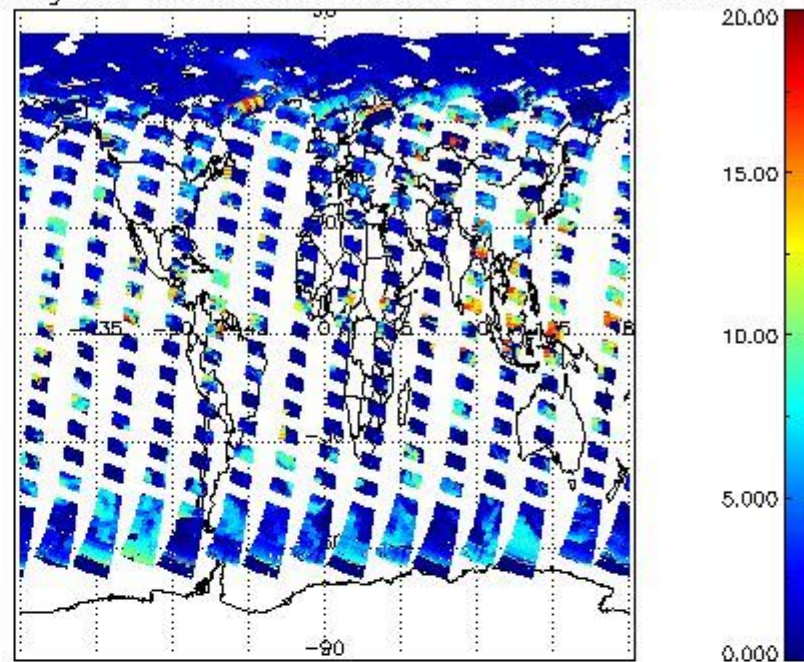
Plots are available for the following parameters:

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

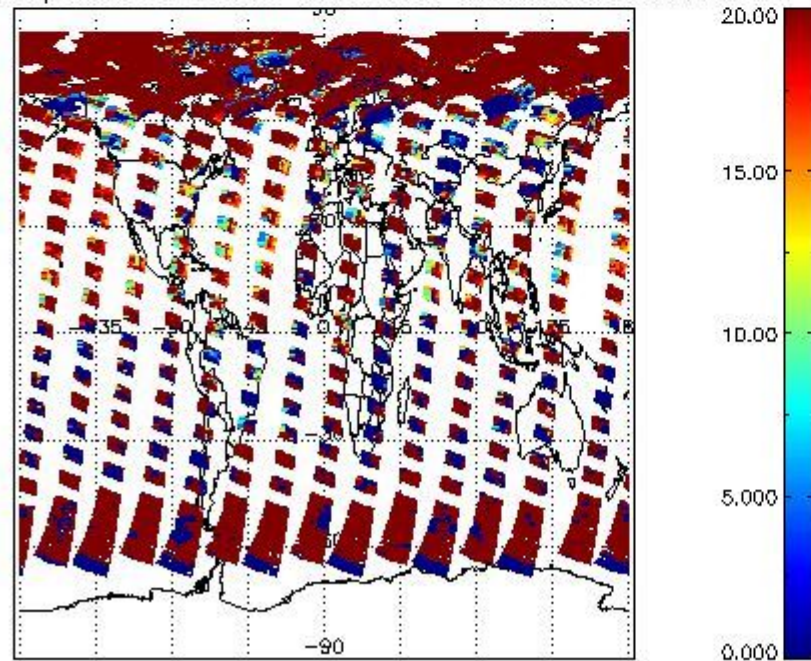
cL_frac for 14MAY2004 00:00:00 to 15MAY2004 00:00:00



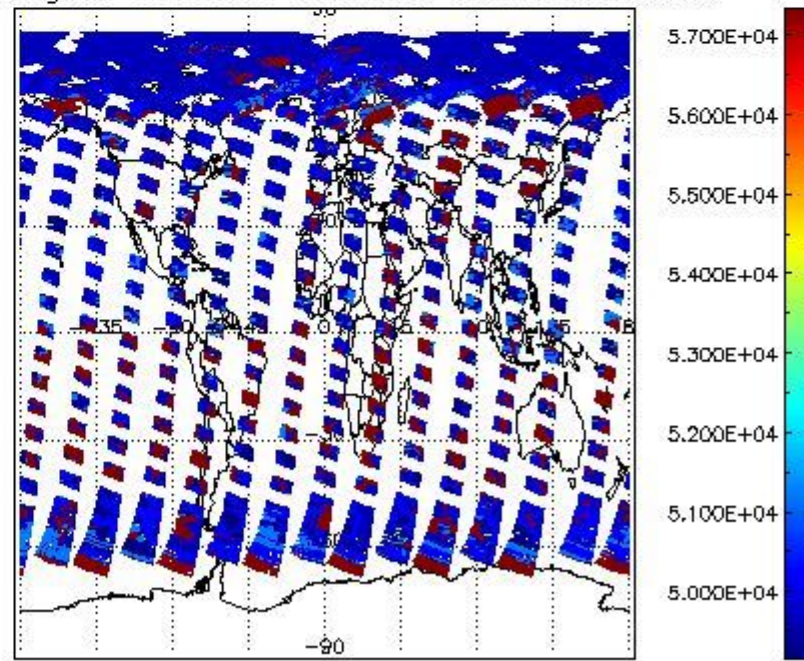
cL_top_height for 14MAY2004 00:00:00 to 15MAY2004 00:00:00



cL_opt_depth for 14MAY2004 00:00:00 to 15MAY2004 00:00:00



cloud_flags for 14MAY2004 00:00:00 to 15MAY2004 00:00:00



2.2.2 Nadir

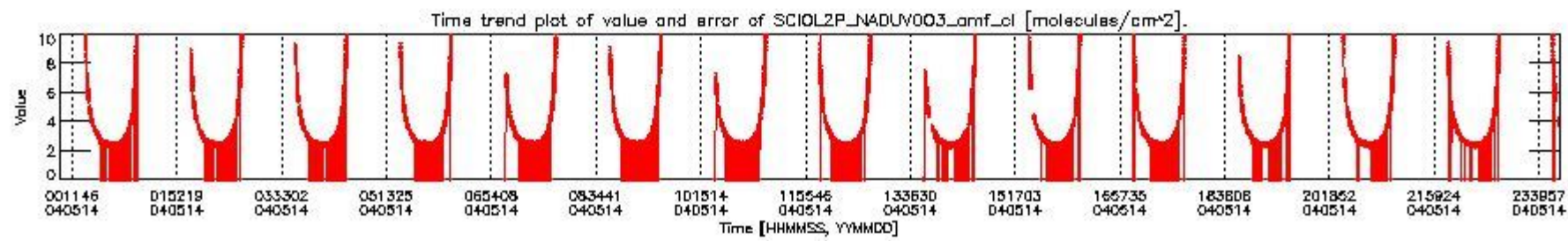
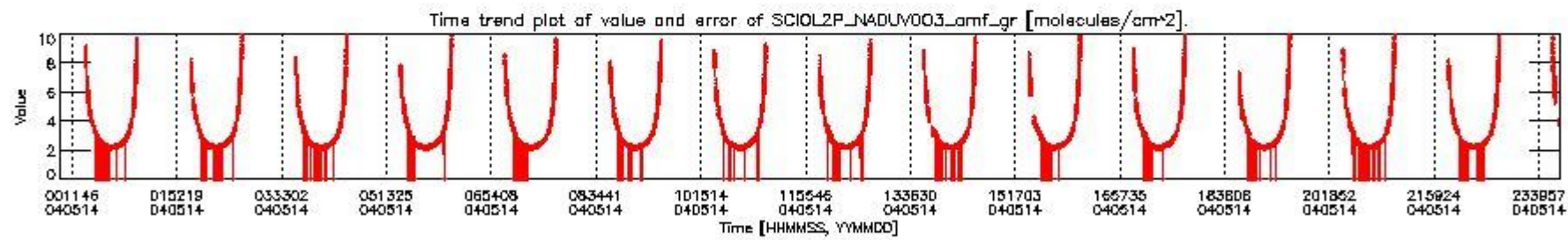
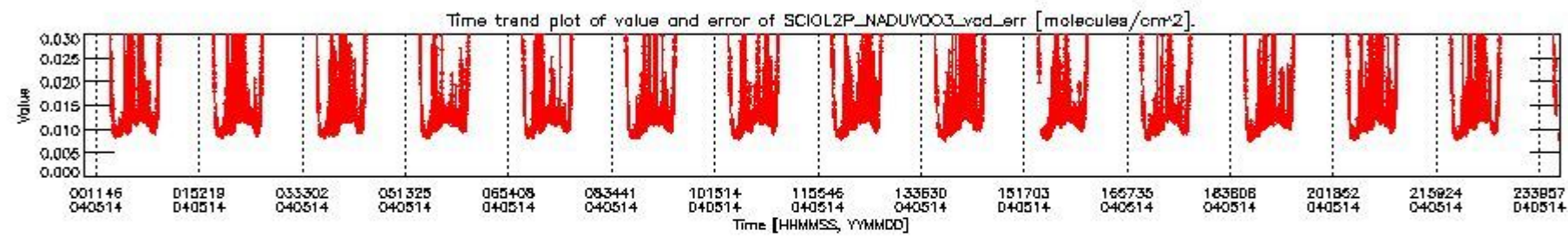
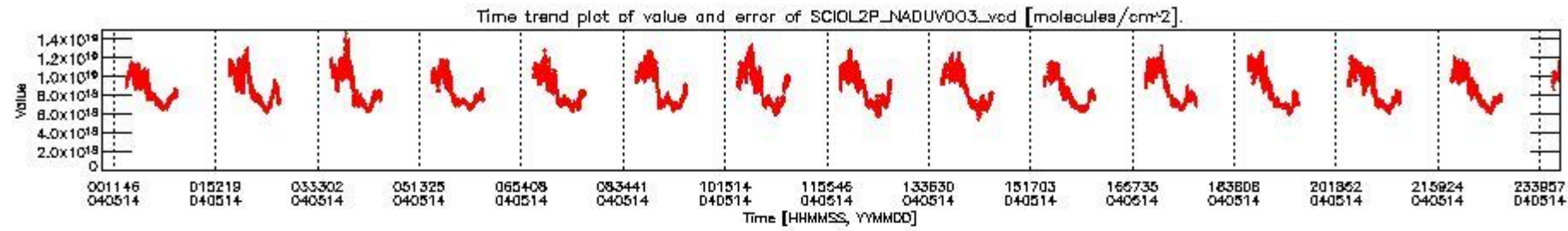
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

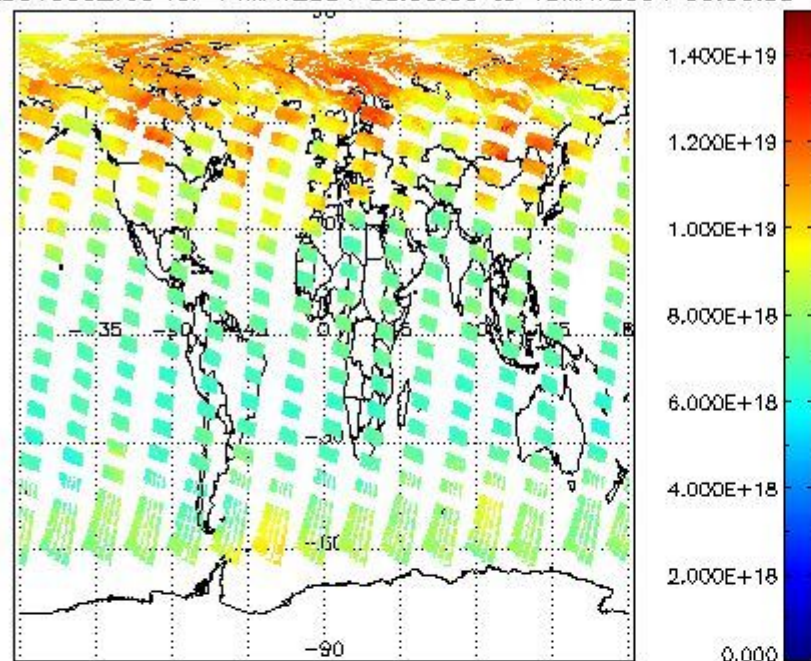
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

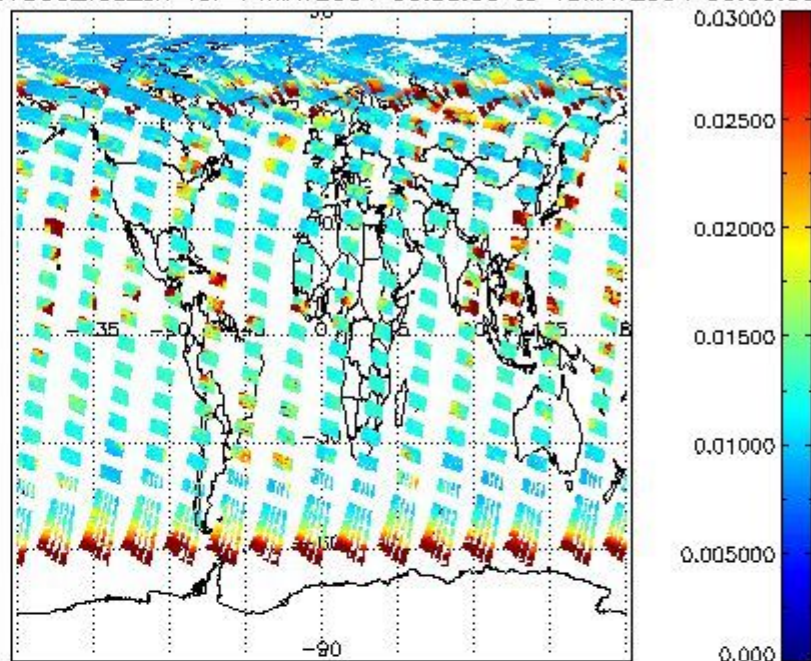
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



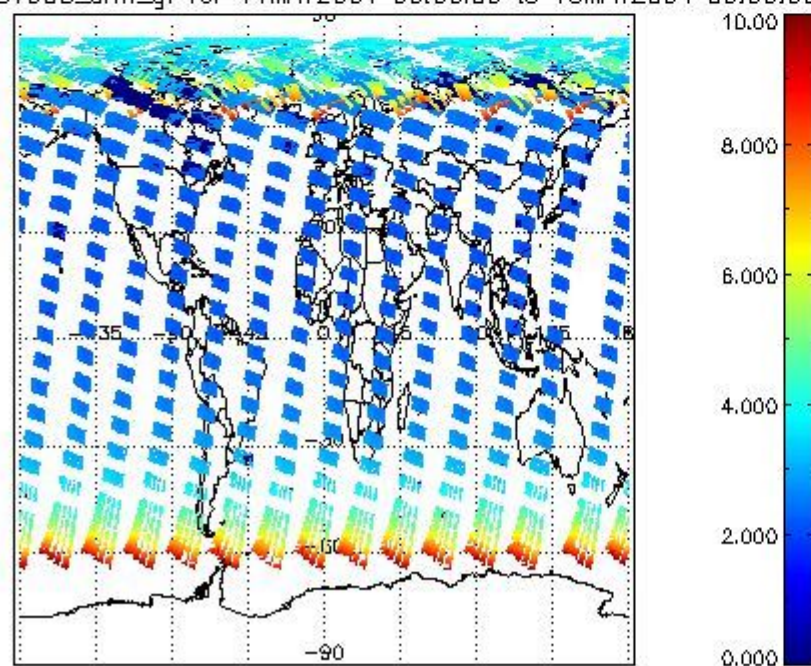
SCIOL2P_NADUV003_vcd for 14MAY2004 00:00:00 to 15MAY2004 00:00:00



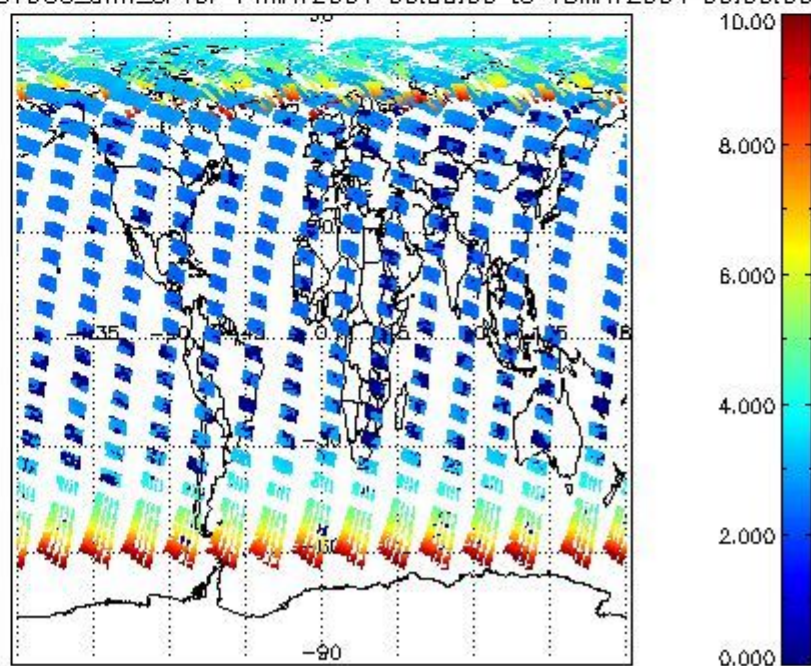
SCIOL2P_NADUV003_vcd_err for 14MAY2004 00:00:00 to 15MAY2004 00:00:00

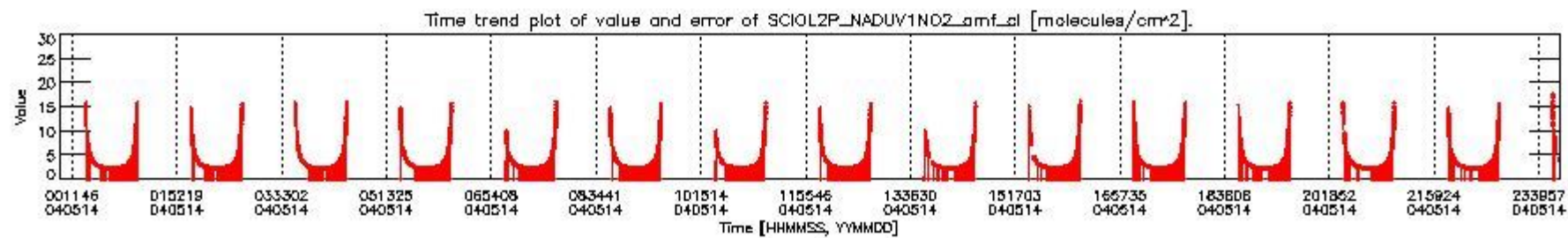
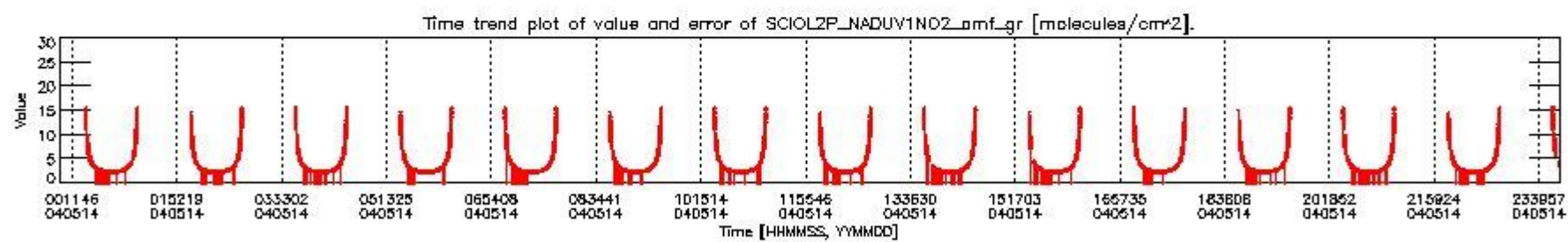
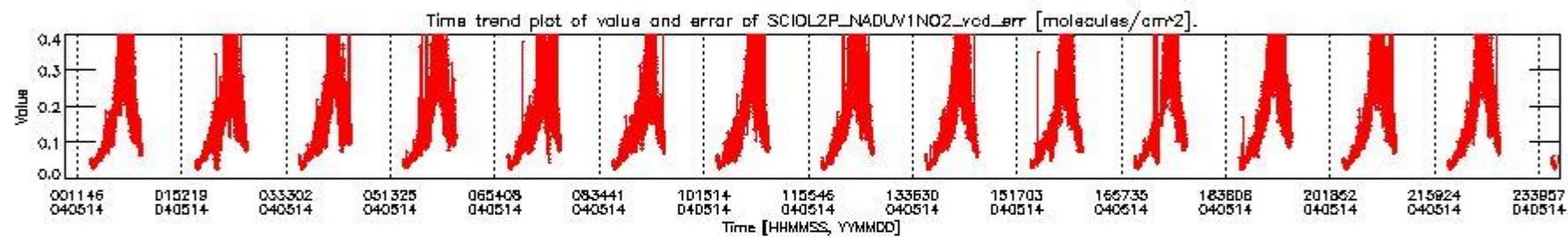
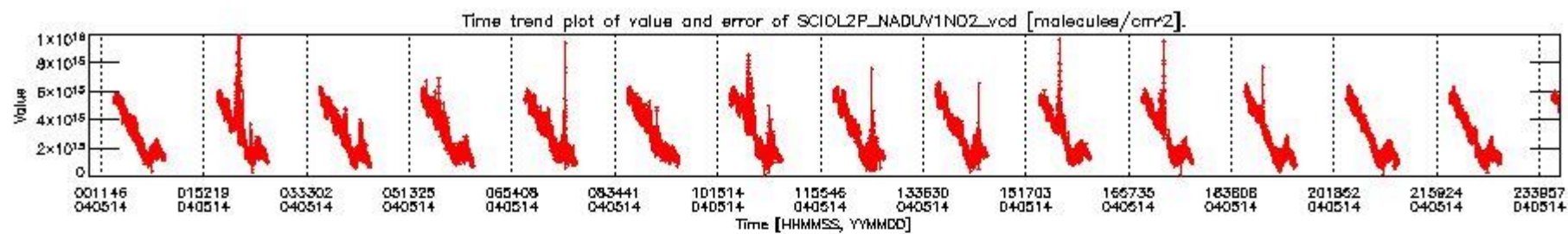


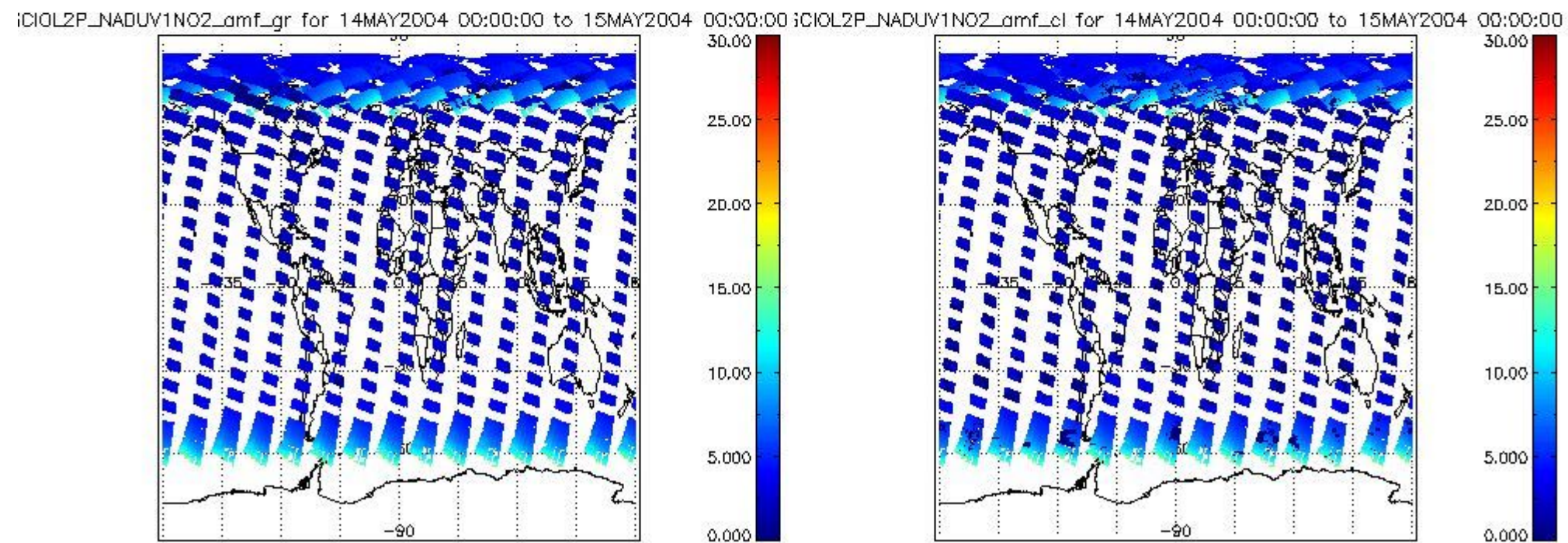
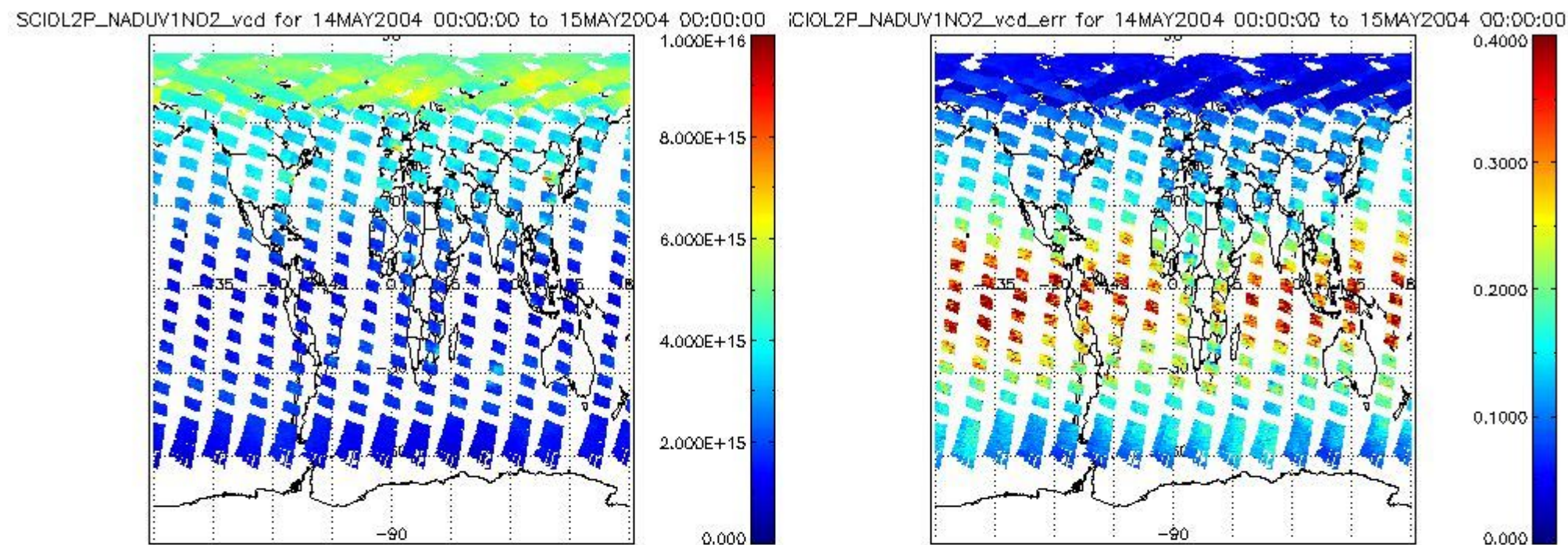
SCIOL2P_NADUV003_amf_gr for 14MAY2004 00:00:00 to 15MAY2004 00:00:00



SCIOL2P_NADUV003_amf_cl for 14MAY2004 00:00:00 to 15MAY2004 00:00:00







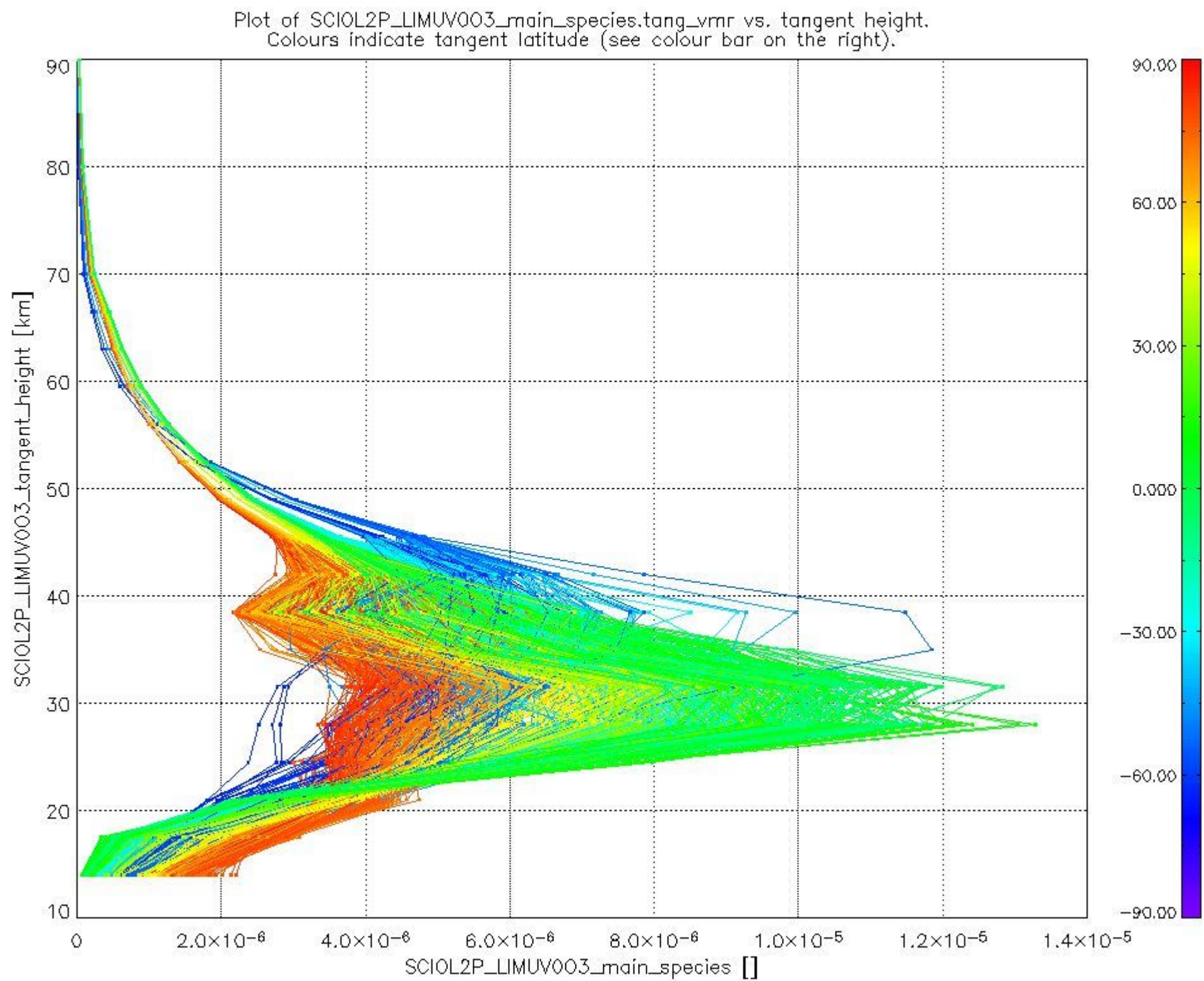
2.2.3 Limb

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

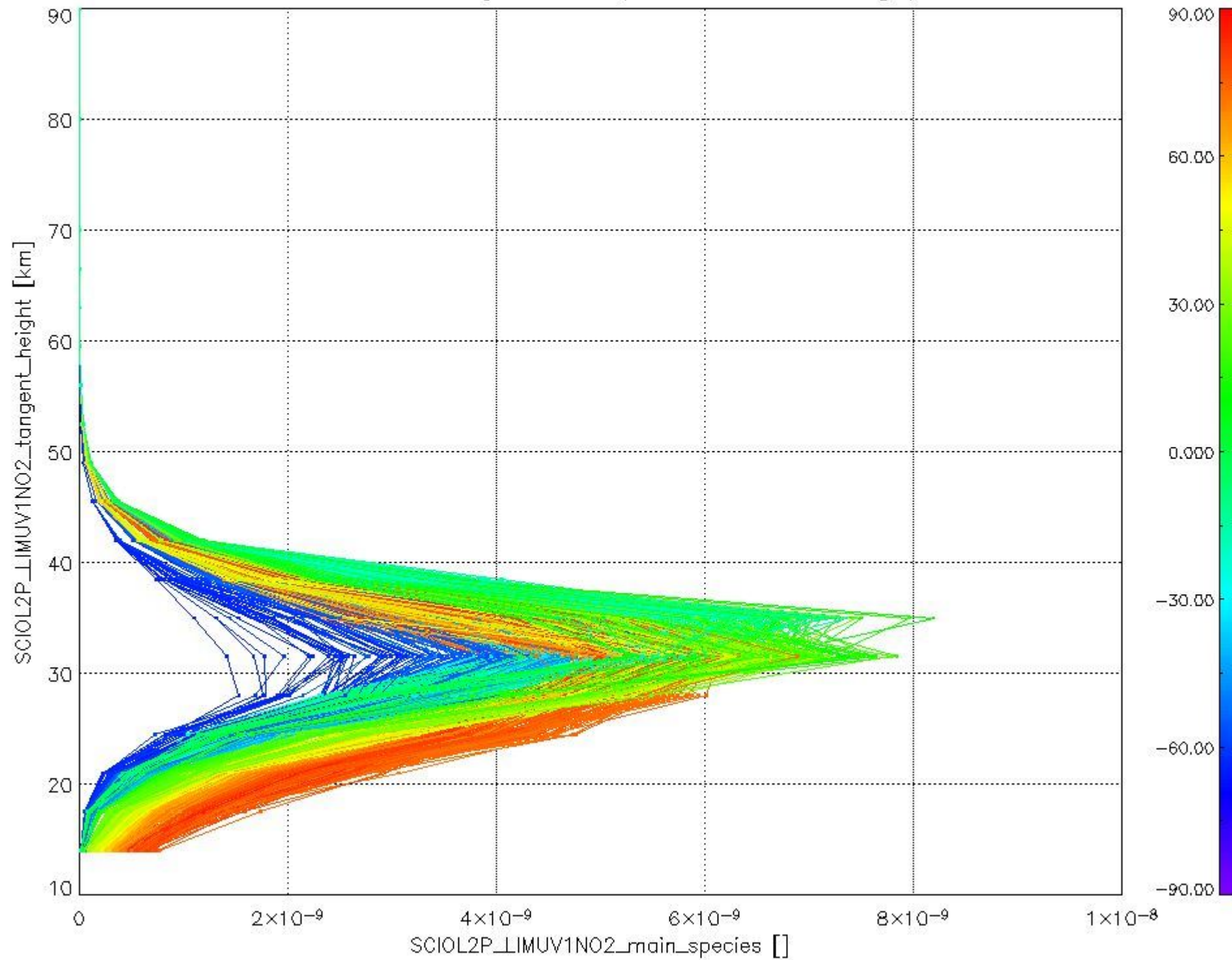
The following data items are currently included into this section:

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.



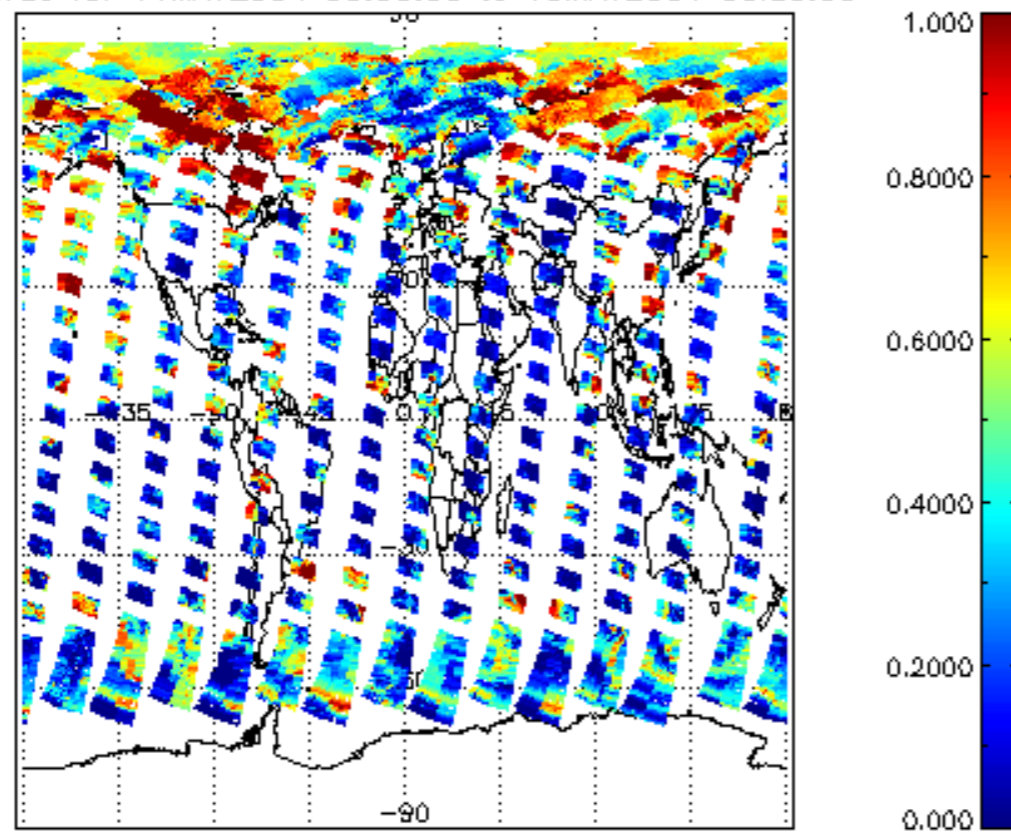
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



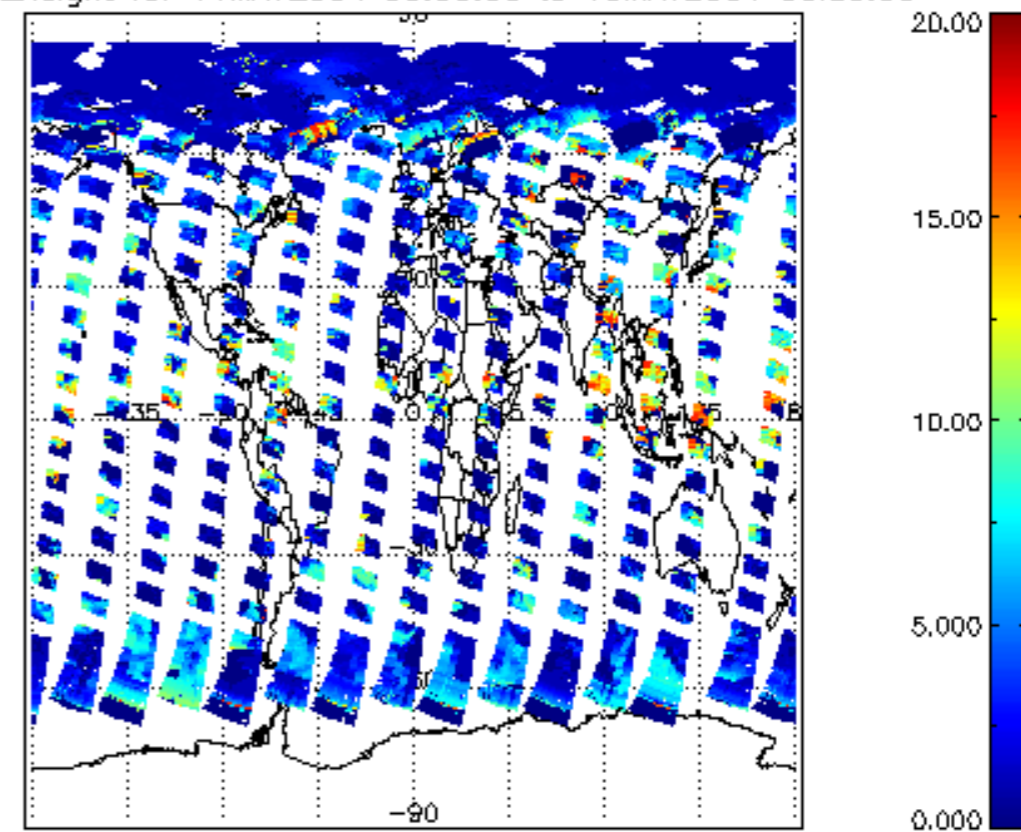
2.3 ADF monitoring

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

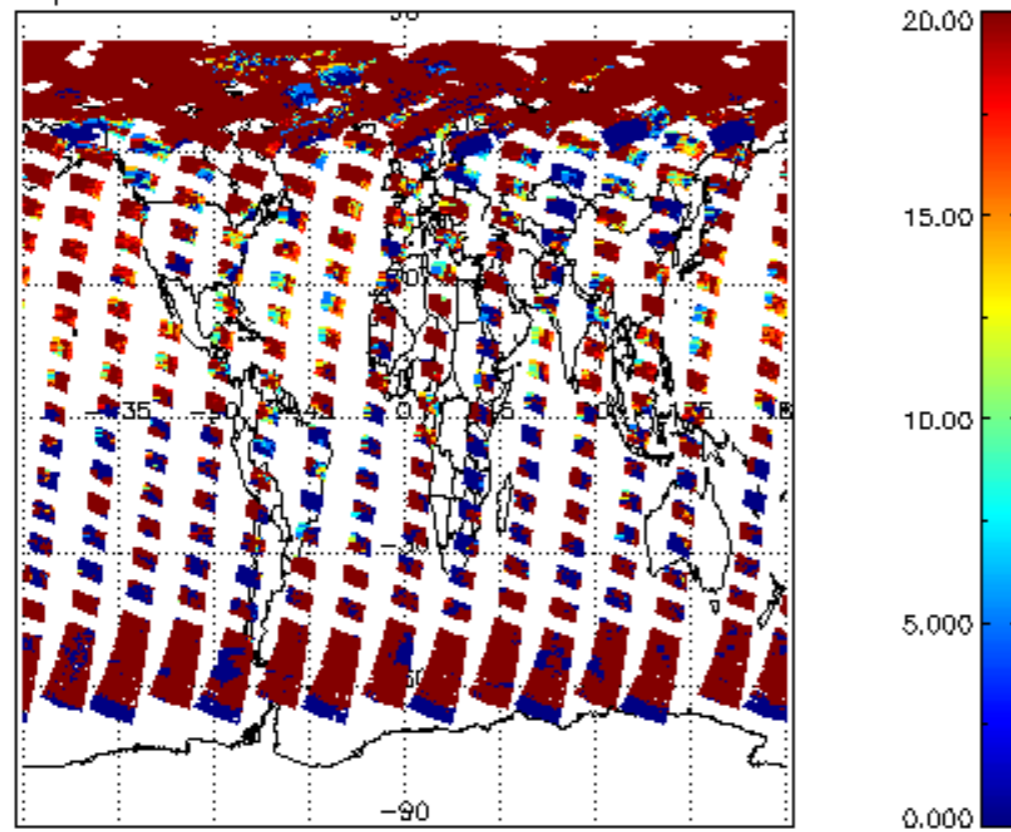
cl_frac for 14MAY2004 00:00:00 to 15MAY2004 00:00:00



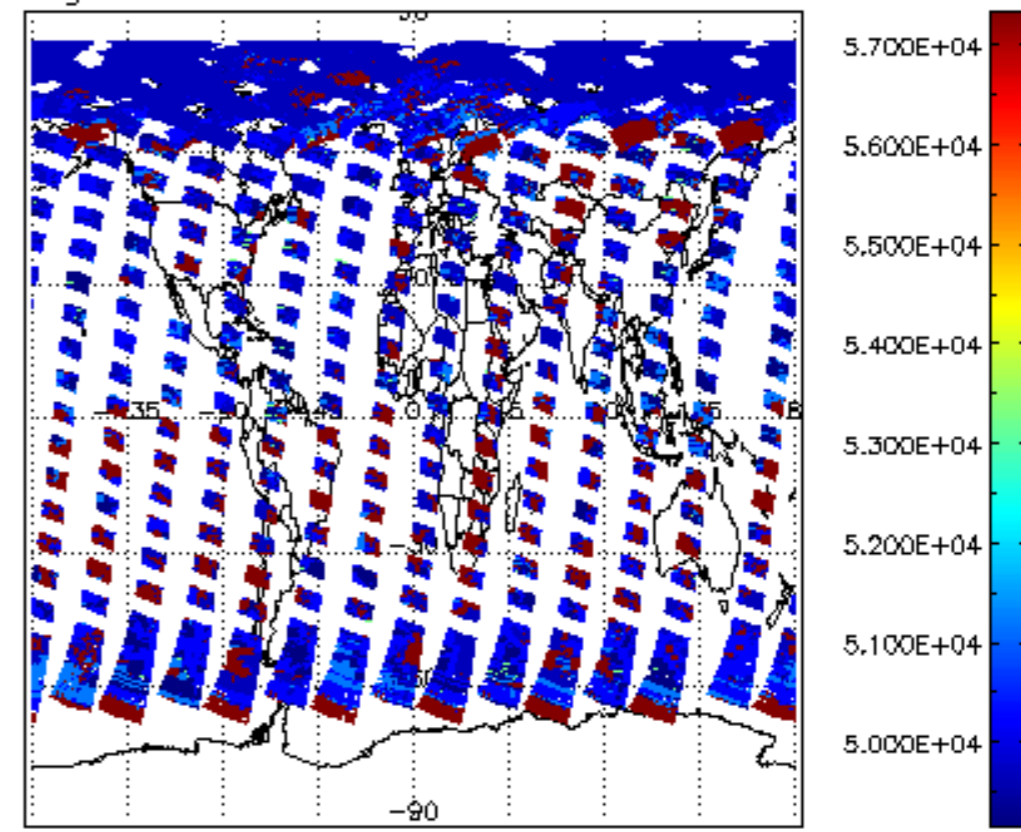
cl_top_height for 14MAY2004 00:00:00 to 15MAY2004 00:00:00

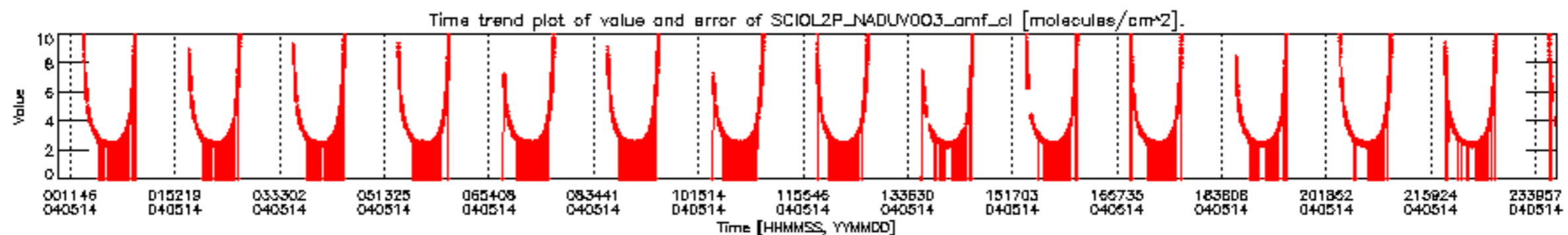
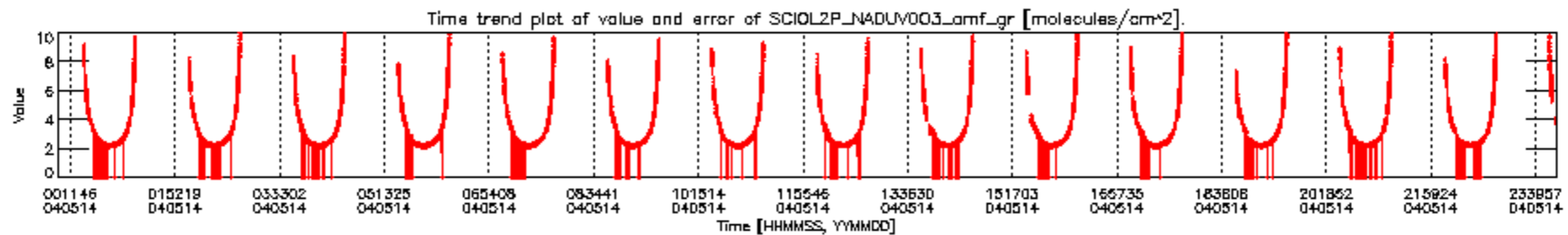
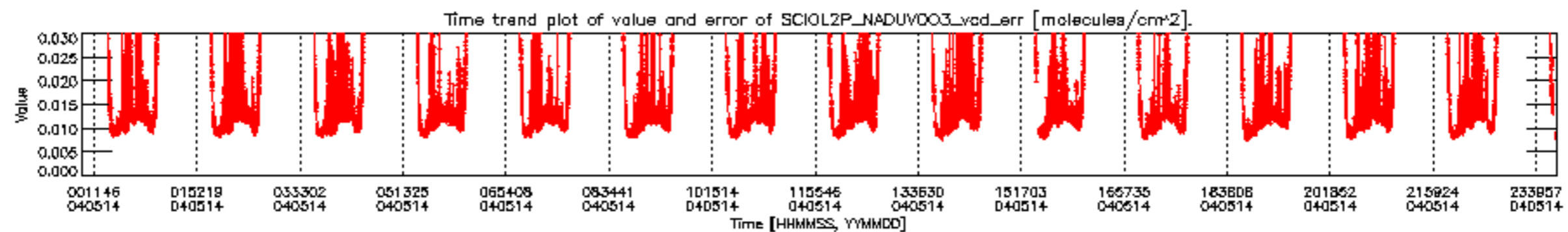
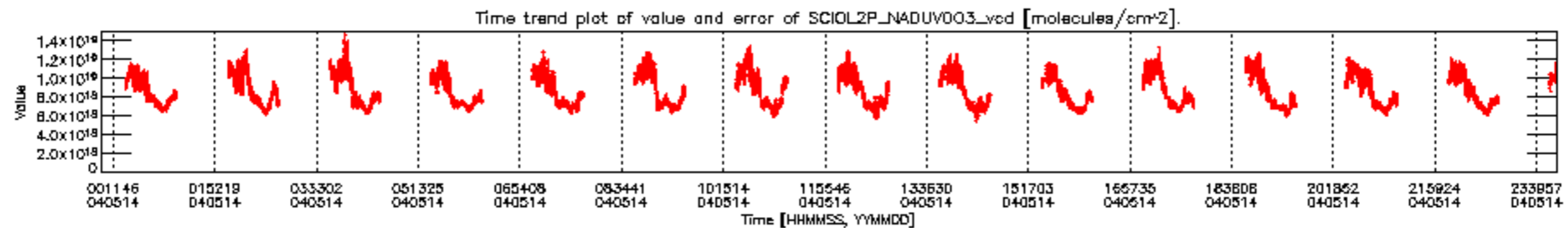


cl_opt_depth for 14MAY2004 00:00:00 to 15MAY2004 00:00:00

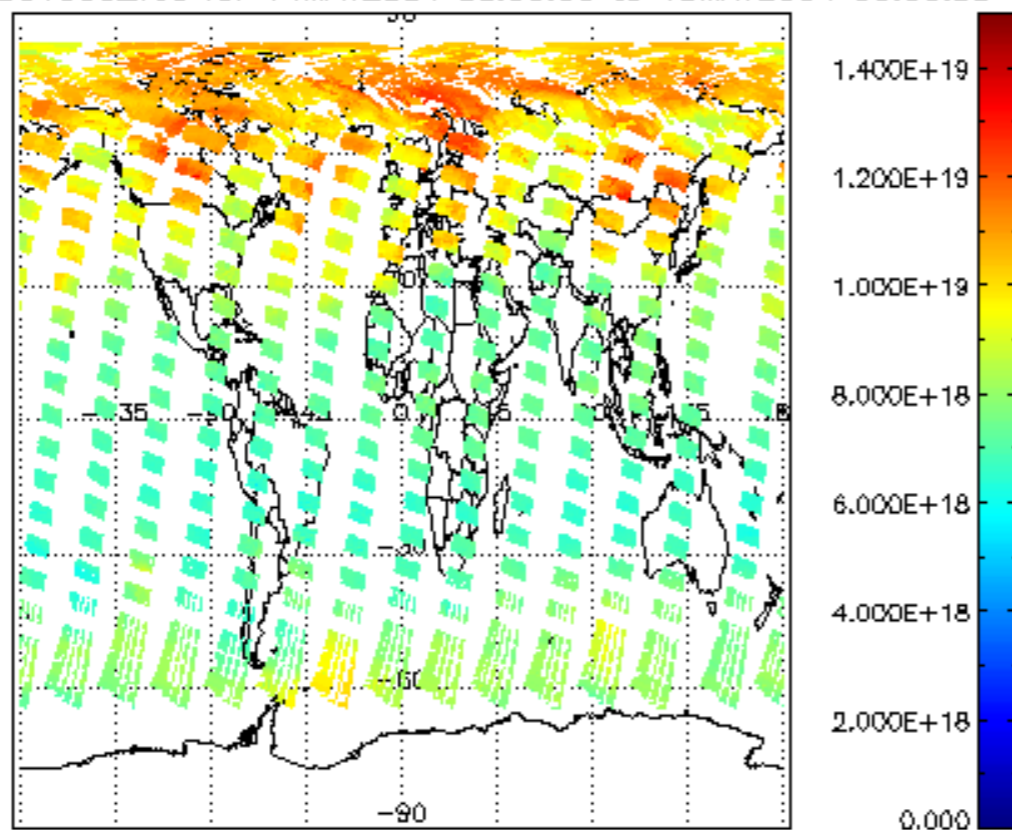


cloud_flags for 14MAY2004 00:00:00 to 15MAY2004 00:00:00

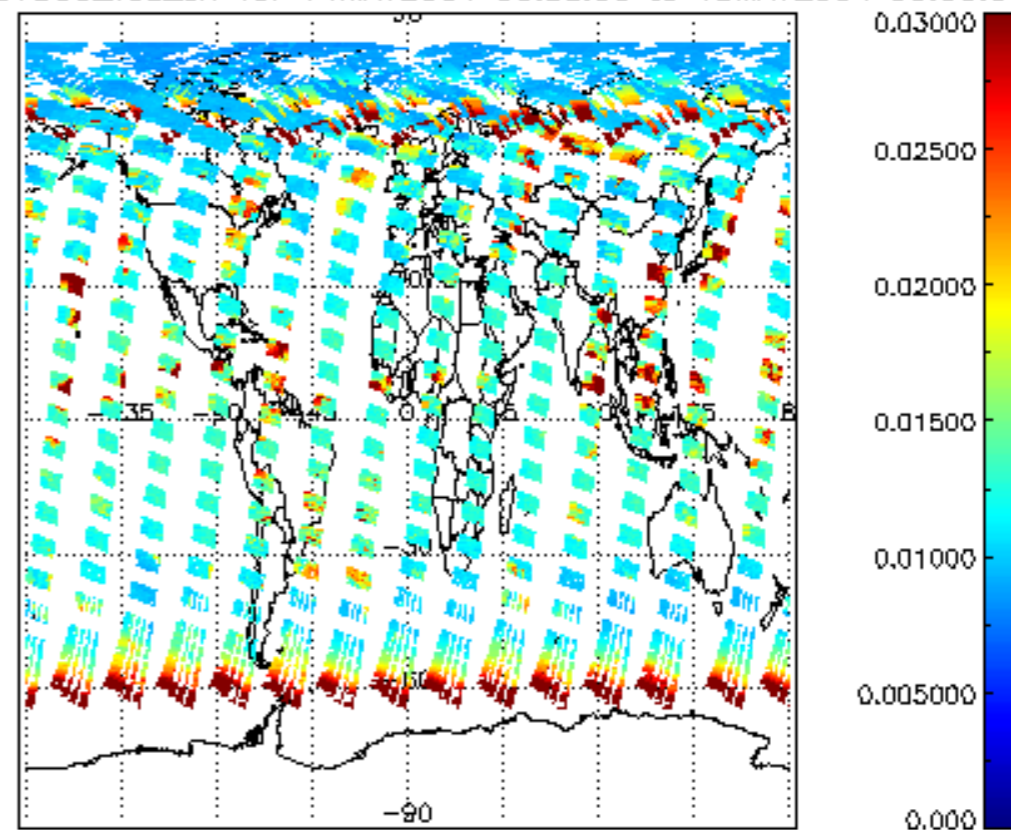




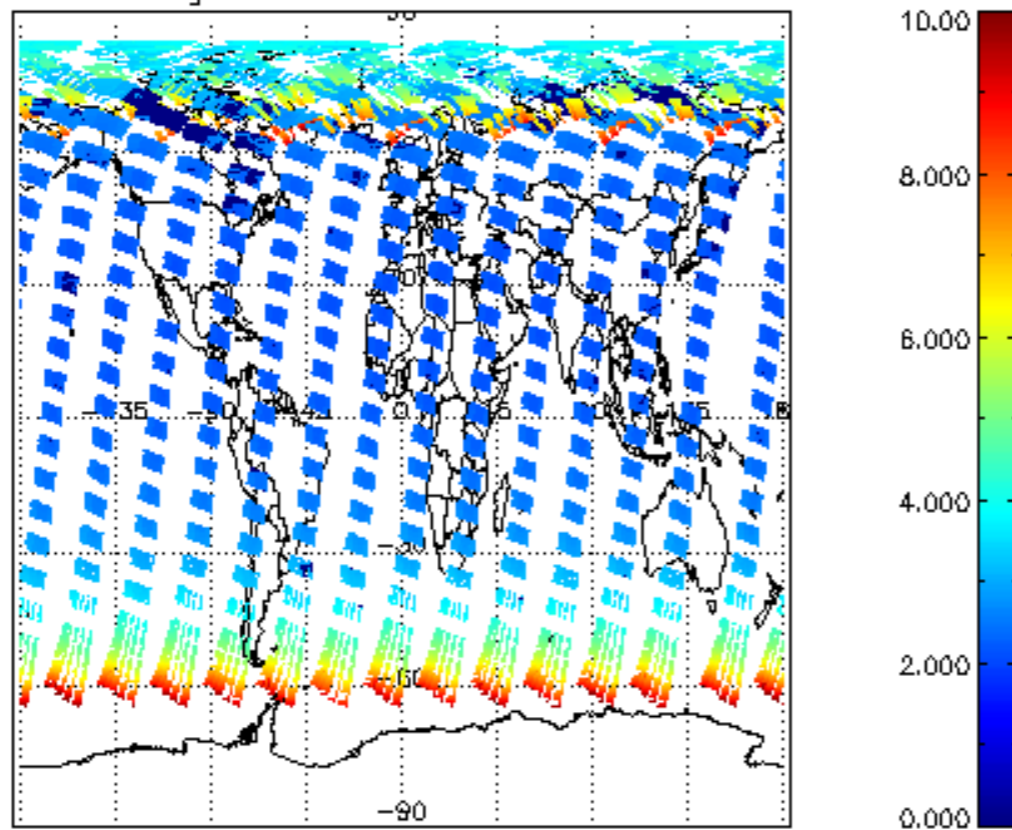
SCIOL2P_NADUV003_vcd for 14MAY2004 00:00:00 to 15MAY2004 00:00:00



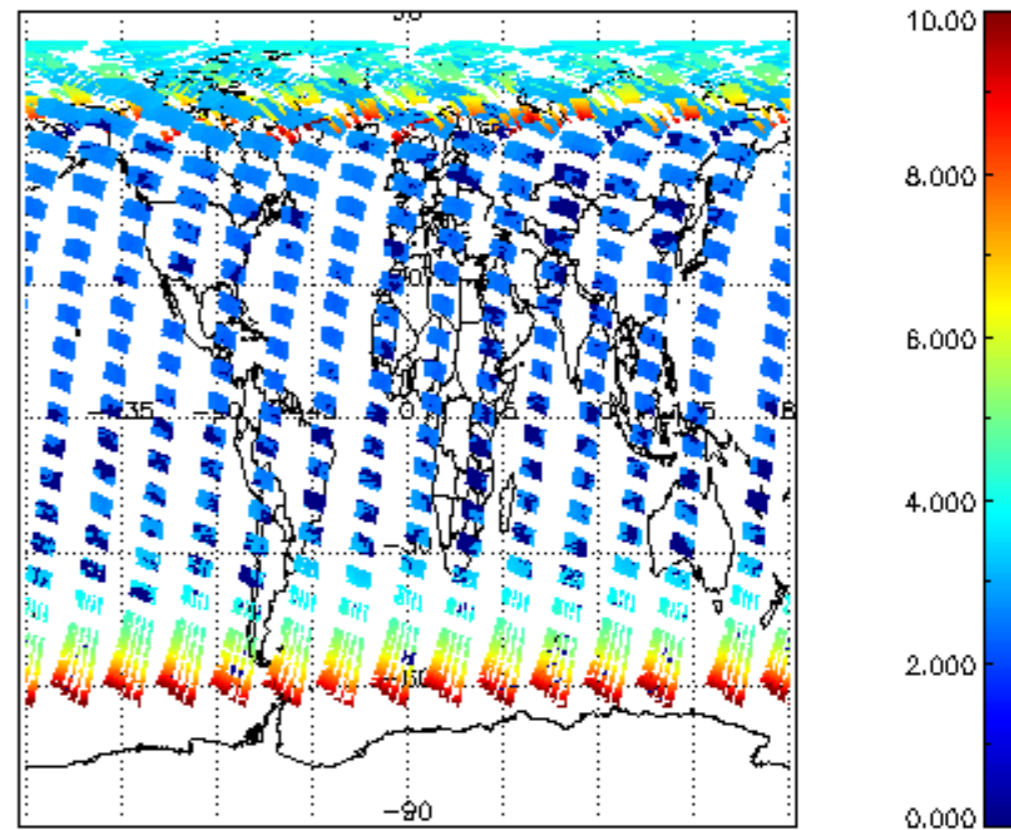
SCIOL2P_NADUV003_vcd_err for 14MAY2004 00:00:00 to 15MAY2004 00:00:00

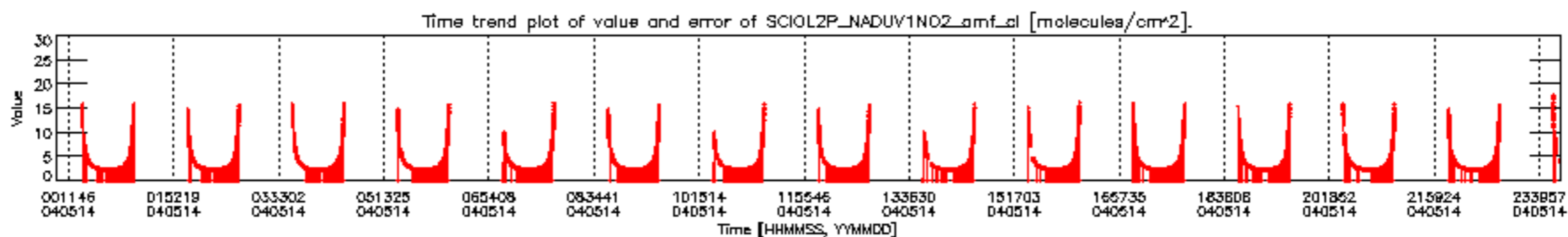
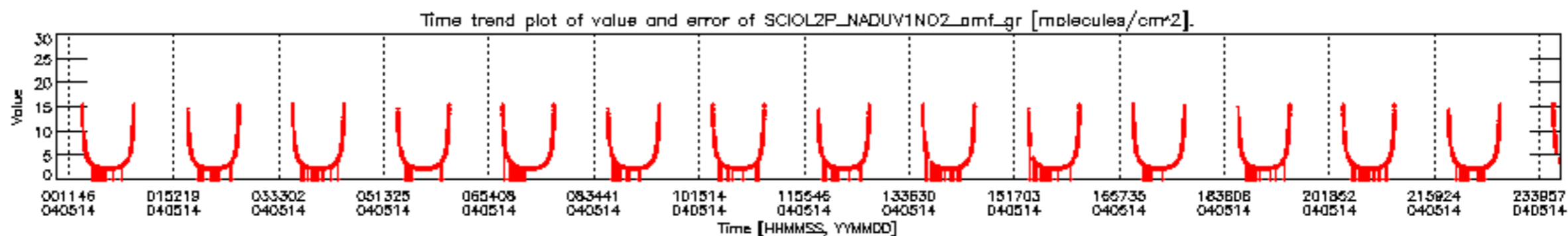
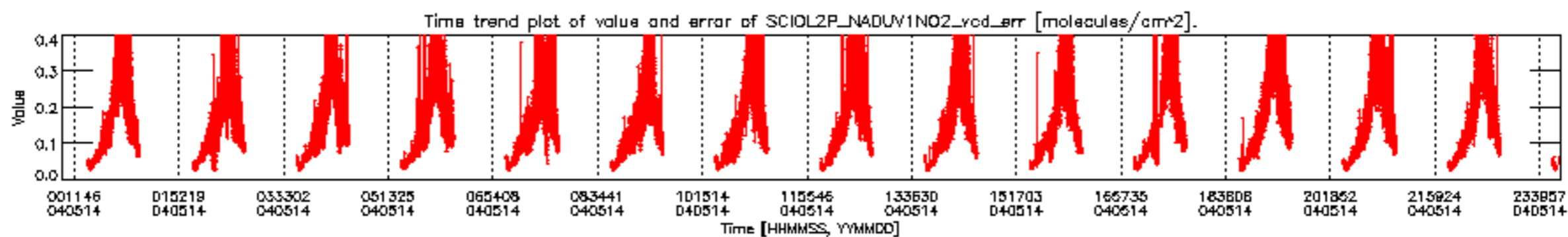
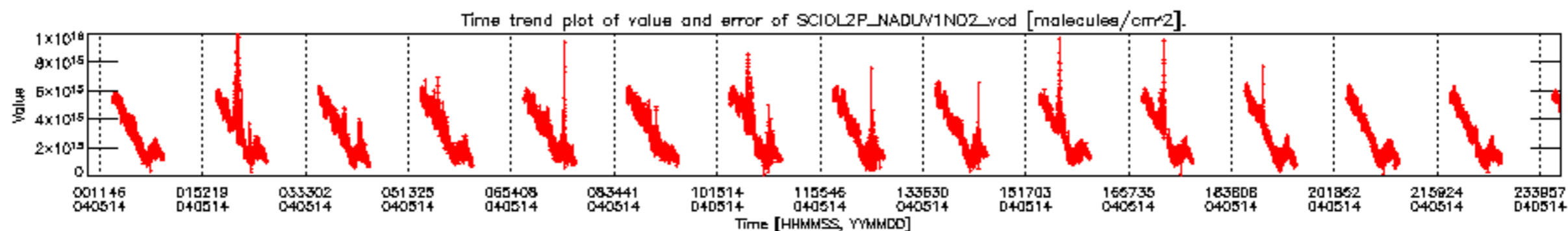


SCIOL2P_NADUV003_amf_gr for 14MAY2004 00:00:00 to 15MAY2004 00:00:00

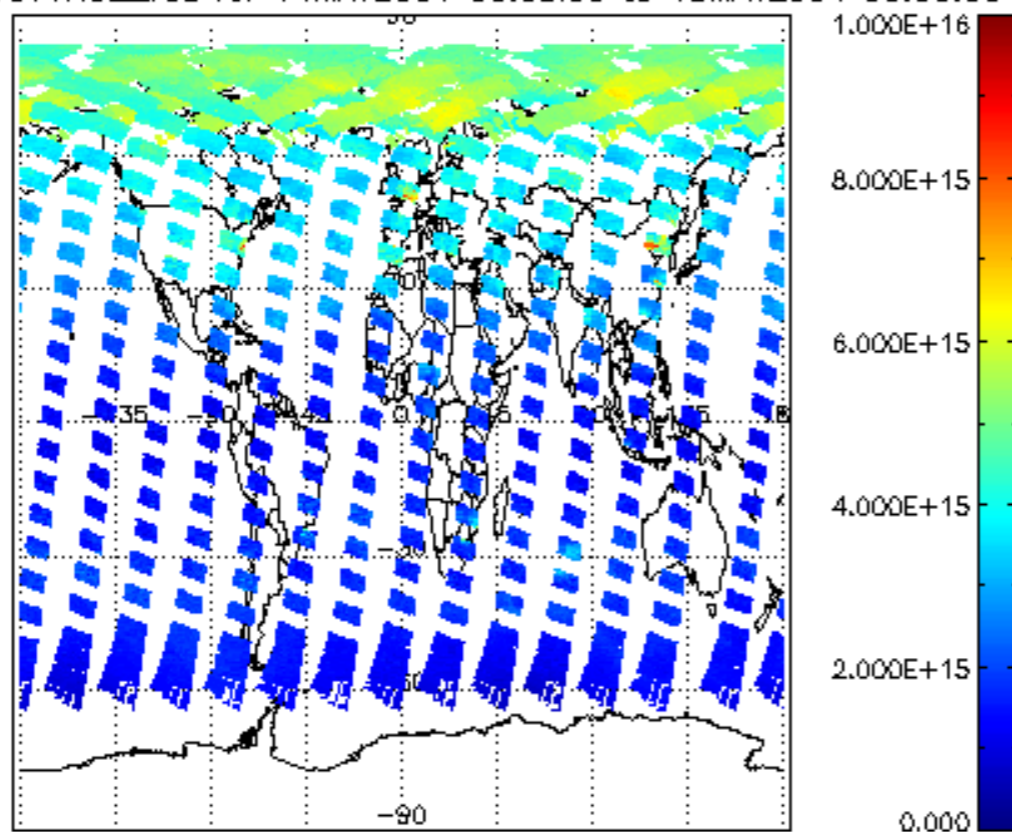


SCIOL2P_NADUV003_amf_cl for 14MAY2004 00:00:00 to 15MAY2004 00:00:00

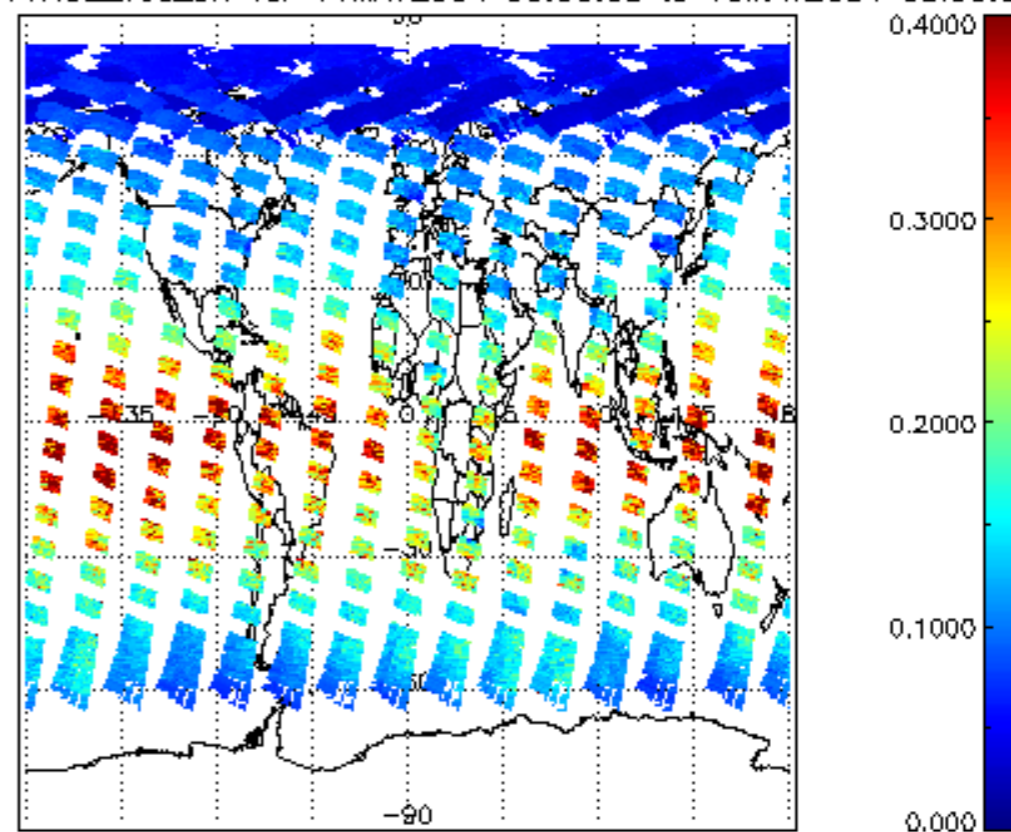




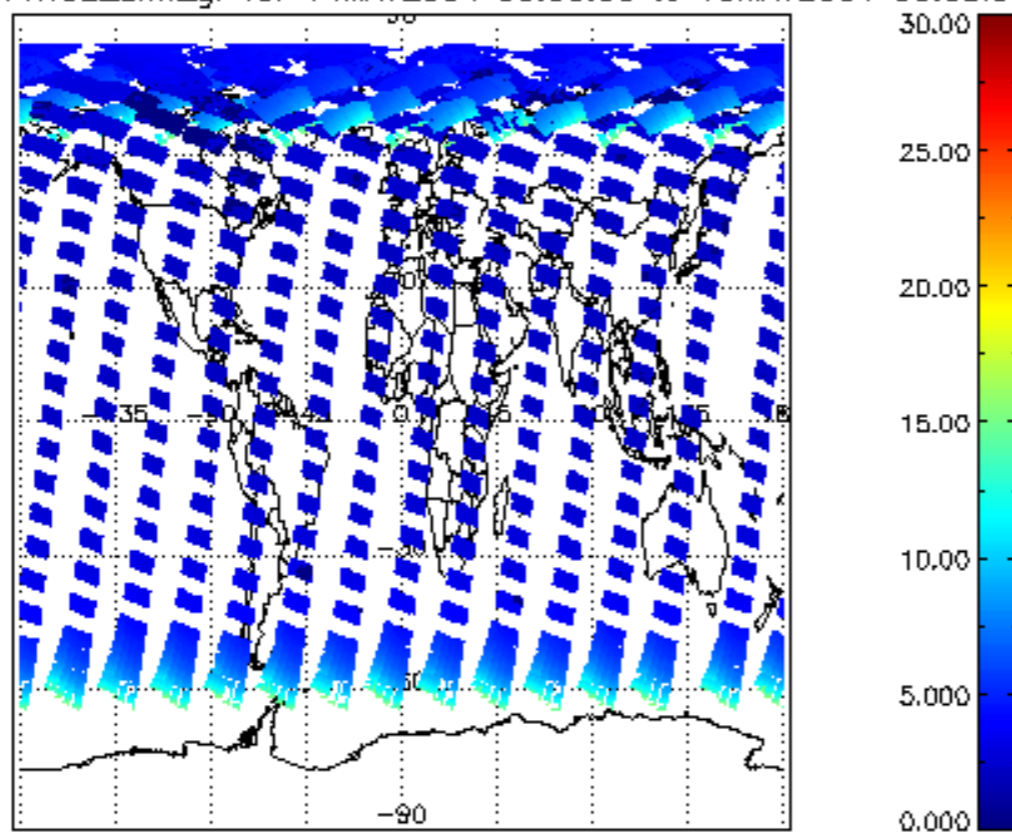
SCIOL2P_NADUV1NO2_vcd for 14MAY2004 00:00:00 to 15MAY2004 00:00:00



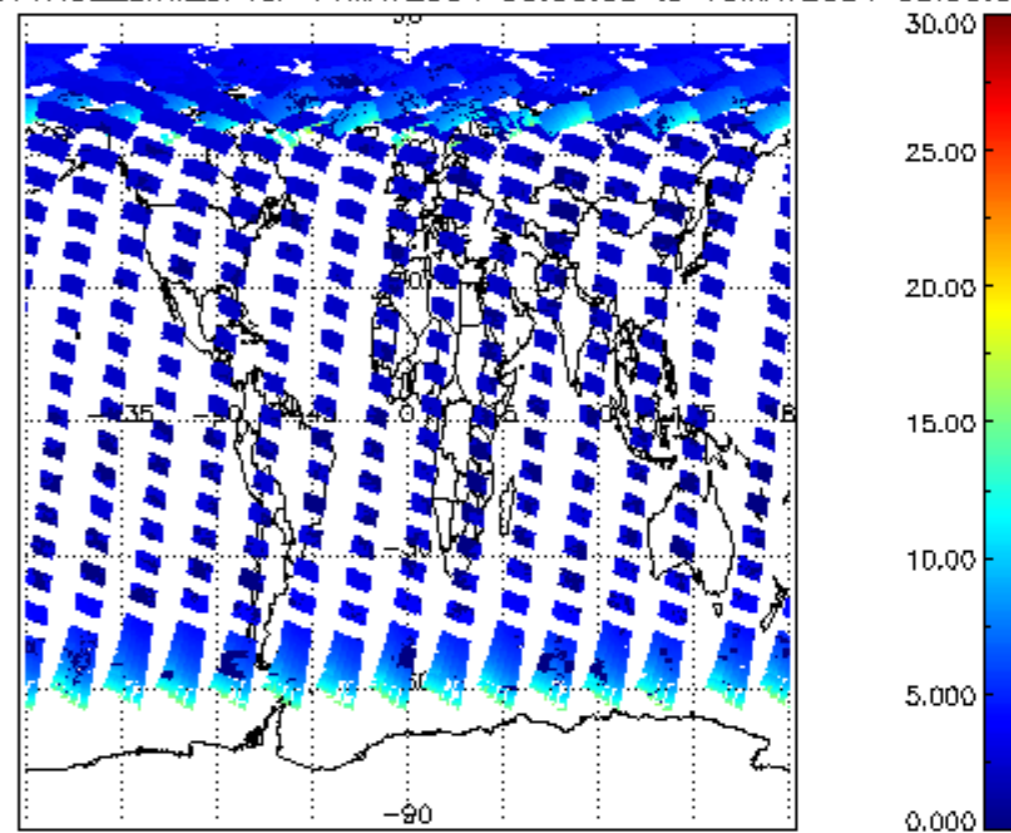
iCIOL2P_NADUV1NO2_vcd_err for 14MAY2004 00:00:00 to 15MAY2004 00:00:00



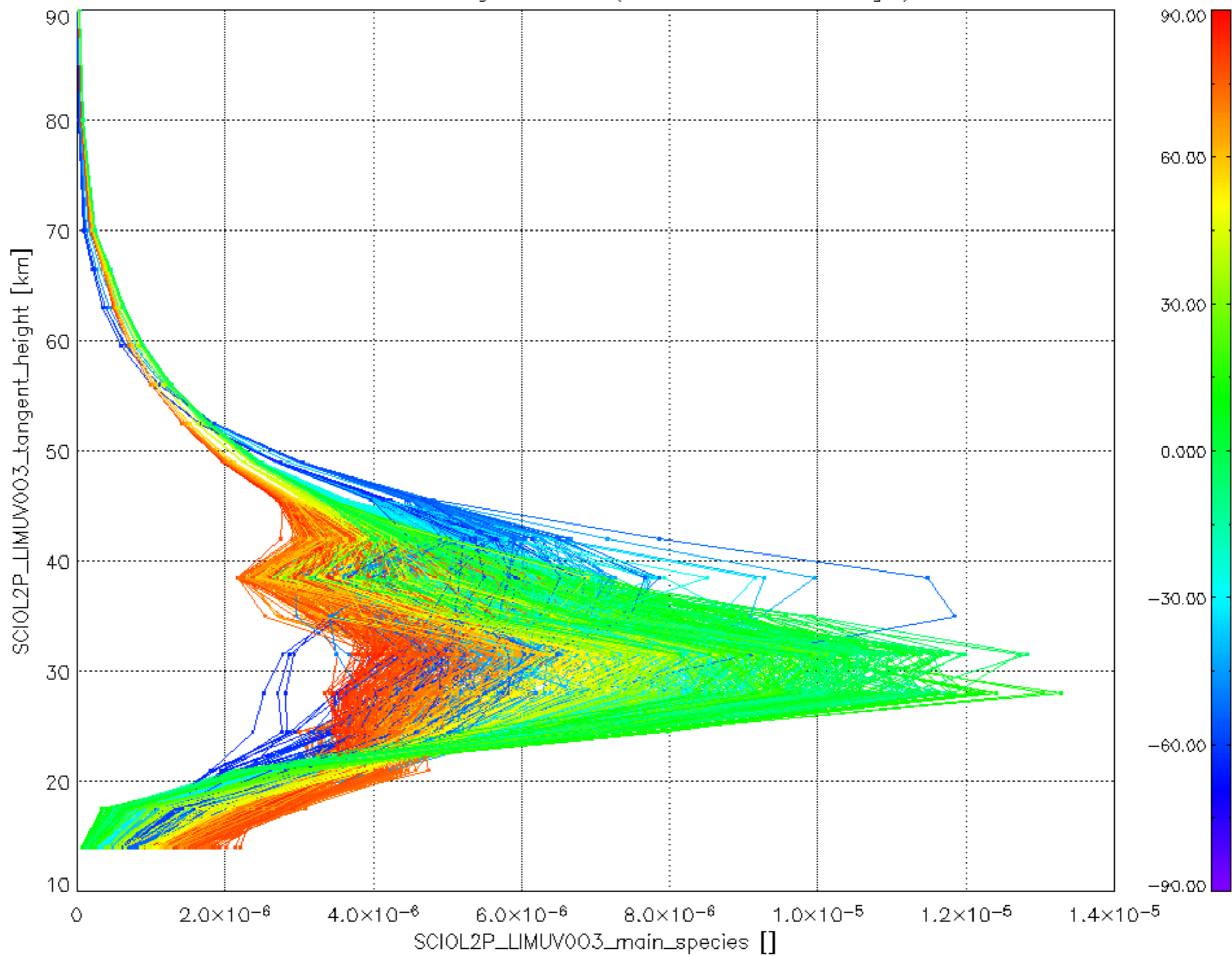
iCIOL2P_NADUV1NO2_amf_gr for 14MAY2004 00:00:00 to 15MAY2004 00:00:00



iCIOL2P_NADUV1NO2_amf_cl for 14MAY2004 00:00:00 to 15MAY2004 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).

