

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	11AUG2008 16:14:20
Data source version	SCIA-OL/3.01-R
Processing scope for products	27MAR2004 00:00:00 to 28MAR2004 00:00:00
Start time of first product within scope	26MAR2004 22:51:46
Stop time of last product within scope	28MAR2004 00:56:28
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__2PRDPA20040326_225146_000033772025_00259_10834_7044.N1	26MAR2004 22:51:46	26MAR2004 23:48:03	0	GOOD
1	SCI_OL__2PRDPA20040327_003222_000033492025_00260_10835_7113.N1	27MAR2004 00:32:22	27MAR2004 01:28:11	0	GOOD
2	SCI_OL__2PRDPA20040327_021257_000033772025_00261_10836_7046.N1	27MAR2004 02:12:57	27MAR2004 03:09:14	0	GOOD
3	SCI_OL__2PRDPA20040327_035333_000033492025_00262_10837_7061.N1	27MAR2004 03:53:33	27MAR2004 04:49:22	0	GOOD
4	SCI_OL__2PRDPA20040327_053408_000033772025_00263_10838_7164.N1	27MAR2004 05:34:08	27MAR2004 06:30:25	0	GOOD
5	SCI_OL__2PRDPA20040327_071444_000033492025_00264_10839_7083.N1	27MAR2004 07:14:44	27MAR2004 08:10:33	0	GOOD
6	SCI_OL__2PRDPA20040327_085519_000033772025_00265_10840_6954.N1	27MAR2004 08:55:19	27MAR2004 09:51:36	0	GOOD
7	SCI_OL__2PRDPA20040327_103555_000033492025_00266_10841_6897.N1	27MAR2004 10:35:55	27MAR2004 11:31:44	0	GOOD
8	SCI_OL__2PRDPA20040327_121630_000033772025_00267_10842_7033.N1	27MAR2004 12:16:30	27MAR2004 13:12:47	0	GOOD
9	SCI_OL__2PRDPA20040327_135705_000033492025_00268_10843_6955.N1	27MAR2004 13:57:05	27MAR2004 14:52:55	0	GOOD
10	SCI_OL__2PRDPA20040327_153741_000033772025_00269_10844_7063.N1	27MAR2004 15:37:41	27MAR2004 16:33:58	0	GOOD
11	SCI_OL__2PRDPA20040327_171829_000033582025_00270_10845_7141.N1	27MAR2004 17:18:29	27MAR2004 18:14:27	0	GOOD
12	SCI_OL__2PRDPA20040327_185915_000033772025_00271_10846_6987.N1	27MAR2004 18:59:15	27MAR2004 19:55:32	0	GOOD
13	SCI_OL__2PRDPA20040327_203928_000033492025_00272_10847_7143.N1	27MAR2004 20:39:28	27MAR2004 21:35:17	0	GOOD
14	SCI_OL__2PRDPA20040328_000038_000033492025_00274_10849_7173.N1	28MAR2004 00:00:38	28MAR2004 00:56:28	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: 105220

Total number of cloud data DSRs with good quality flag (=0): 105220 (100.0 %)

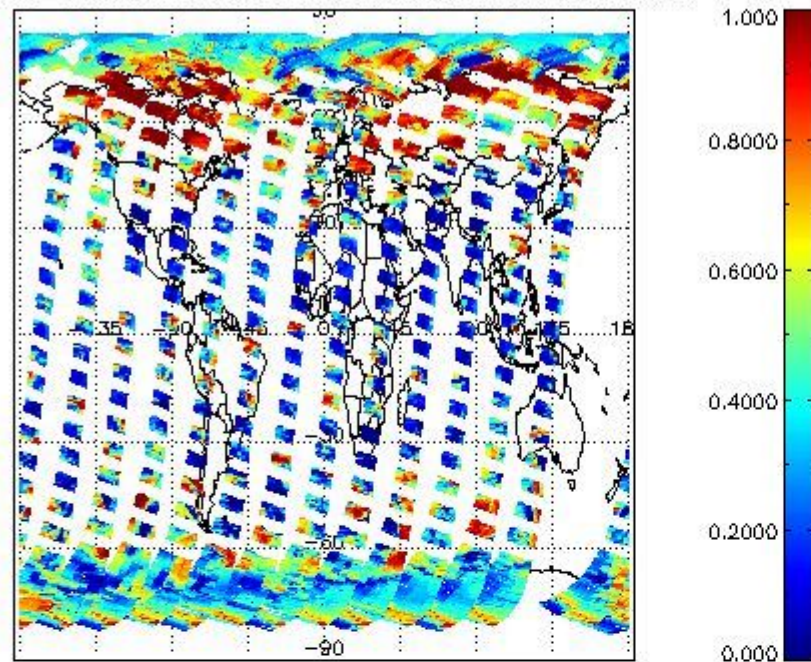
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	105220	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	105220	0.21868	0.25000	0.12500	0.50000	0.087397	s
CL_FRAC	105220	0.44189	0.40577	0.0000	1.0000	0.31265	-
CL_FRAC_ERR	105220	0.0000	0.0000	0.0000	0.0000	0.0000	rel. fraction
PMD_READ	105220	6.9979	8.0000	4.0000	16.000	2.7967	
PMD_READ_CL[0]	105220	0.48819	0.0000	0.0000	16.000	1.5002	-
PMD_READ_CL[1]	105220	0.64610	0.0000	0.0000	16.000	1.8797	-
CL_TOP_HEIGHT	95776	3.5847	1.7302	0.0000	17.000	3.8027	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	95776	55.008	43.654	0.0000	101.00	39.926	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	105220	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	105220	11000111	11000010	11000000	11100000	2661.1	flags
AERO_ABSO_IND	105220	0.94181	0.84821	-3.8445	11.881	1.2197	
AERO_IND_DIAG	105220	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	105220	01100111	11000000	00000000	11000000	24494.	flags

Time and geolocation plots:

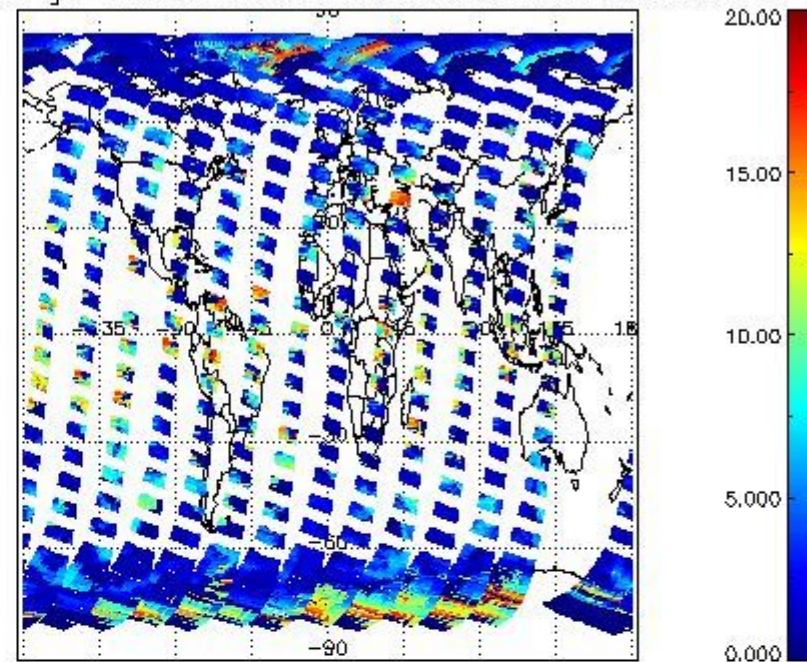
Plots are available for the following parameters:

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

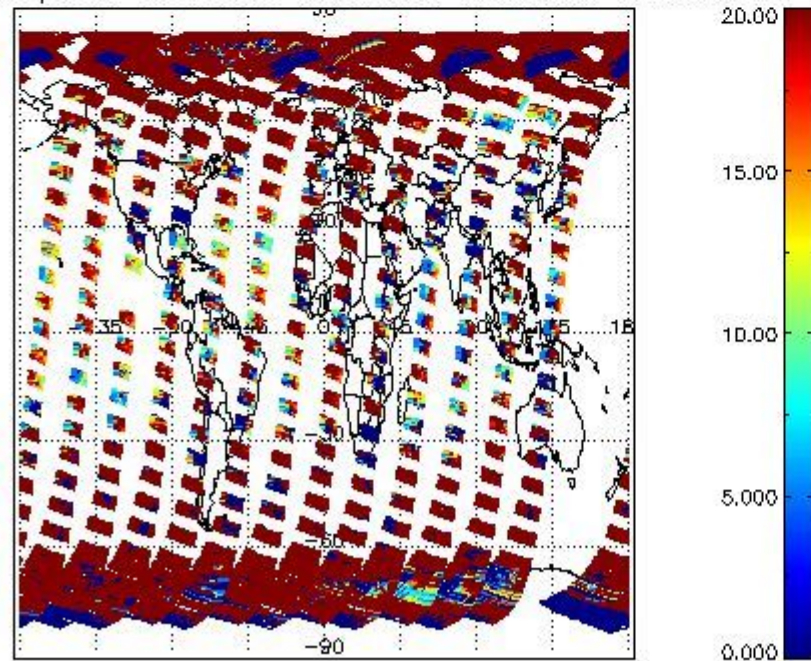
cL_frac for 27MAR2004 00:00:00 to 28MAR2004 00:00:00



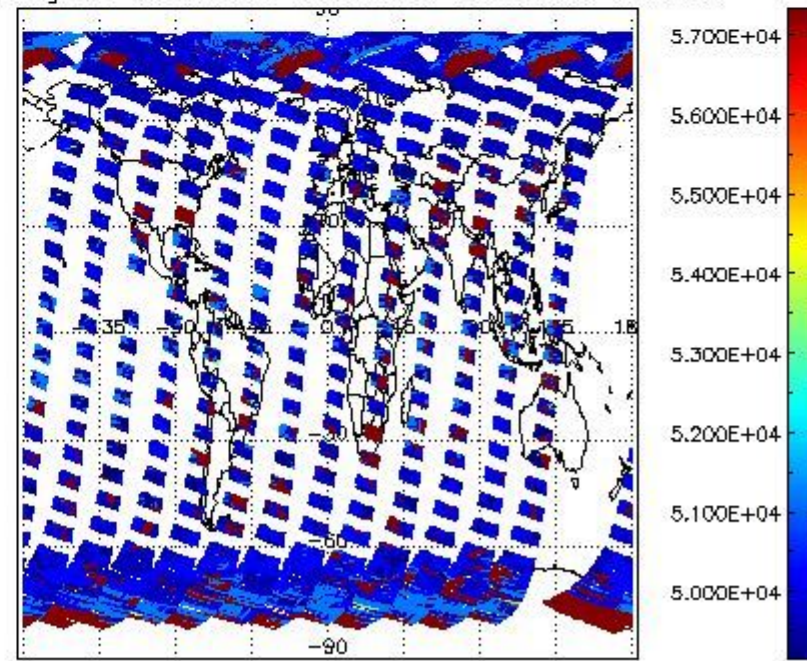
cL_top_height for 27MAR2004 00:00:00 to 28MAR2004 00:00:00



cL_opt_depth for 27MAR2004 00:00:00 to 28MAR2004 00:00:00



cloud_flags for 27MAR2004 00:00:00 to 28MAR2004 00:00:00



2.2.2 Nadir

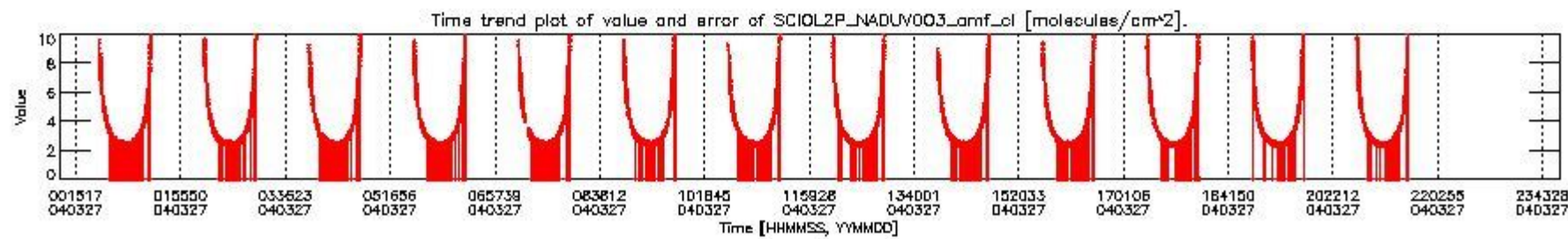
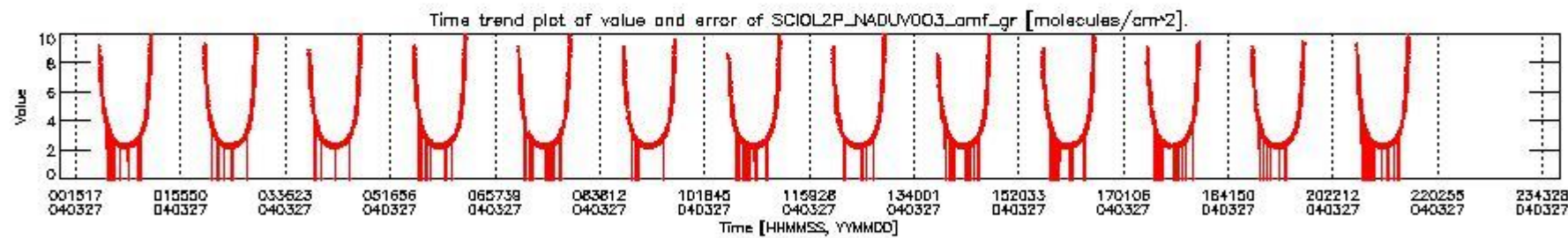
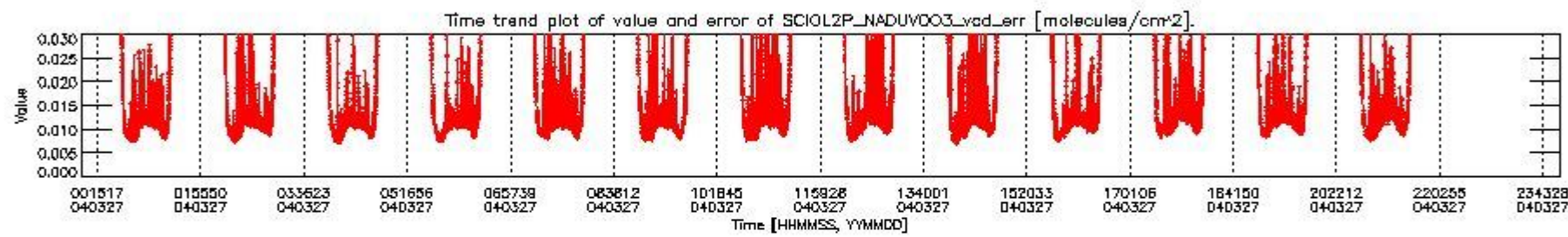
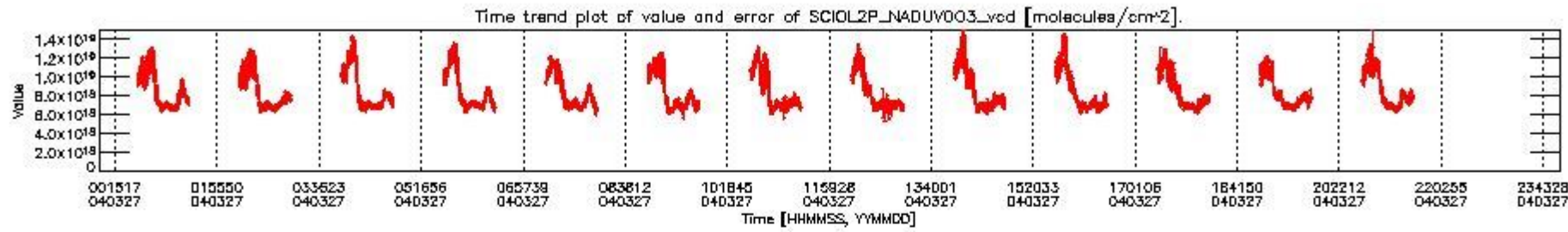
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

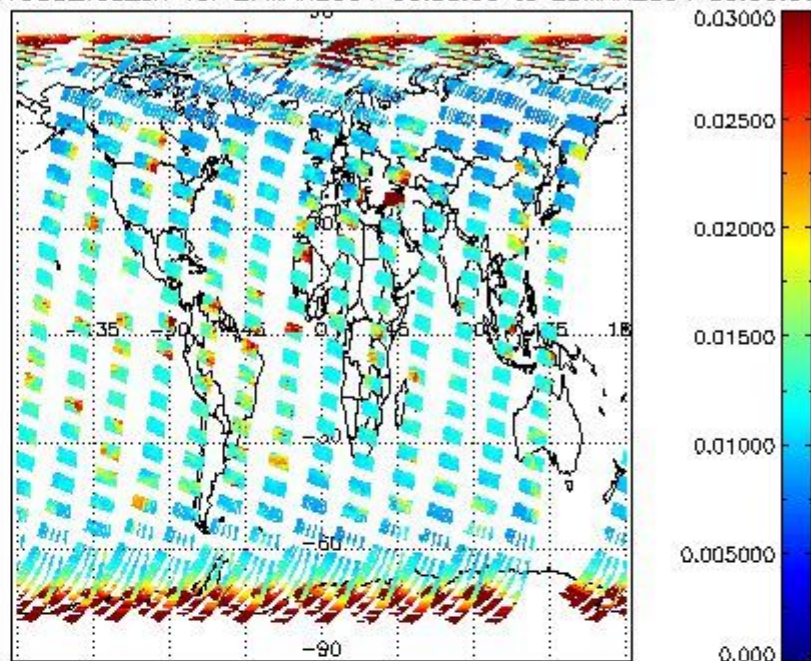
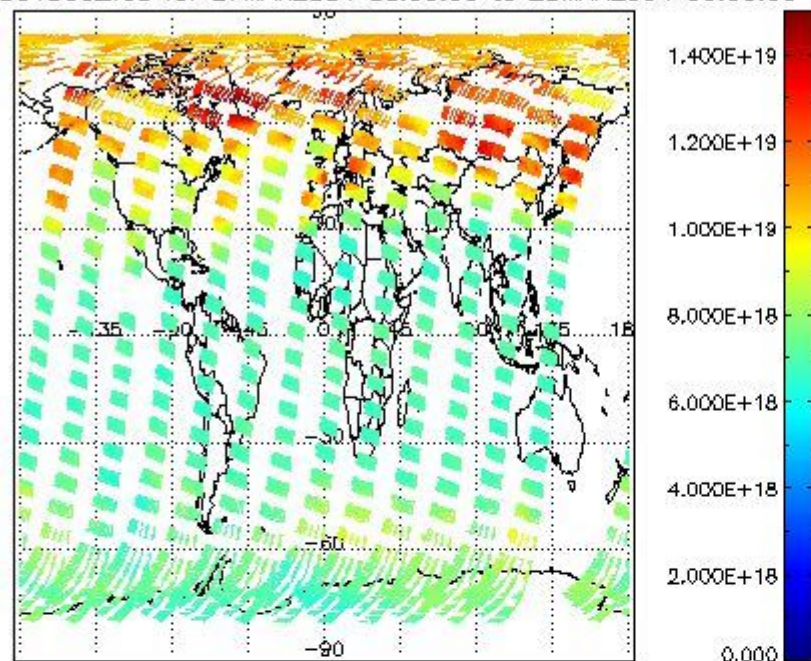
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

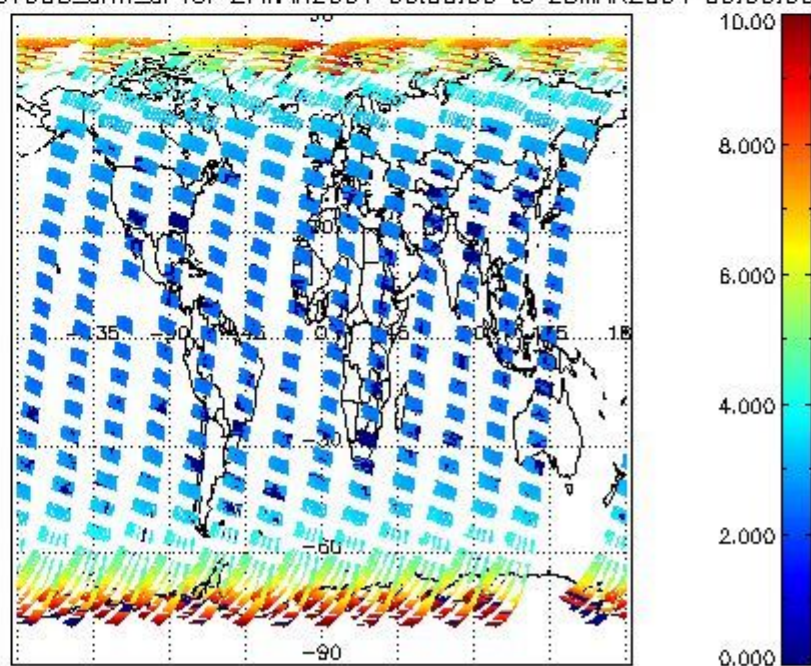
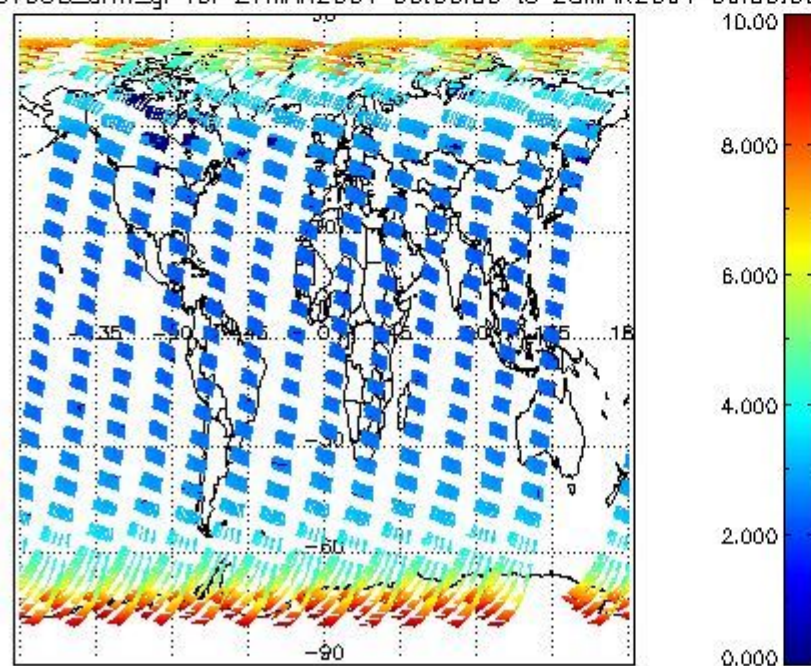
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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

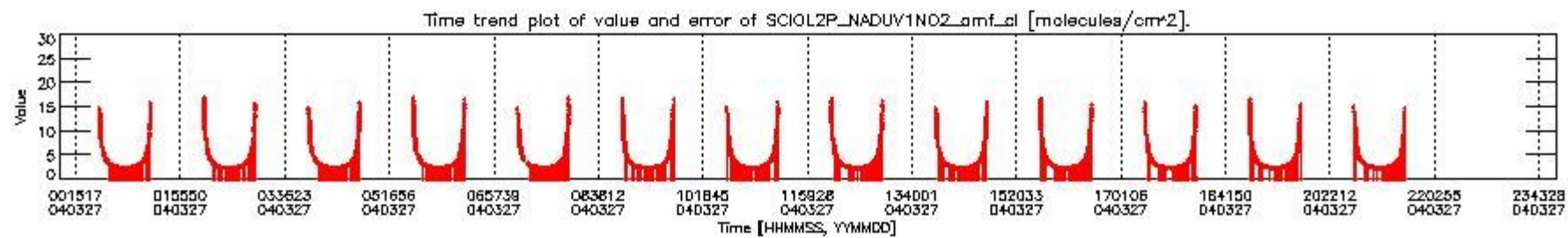
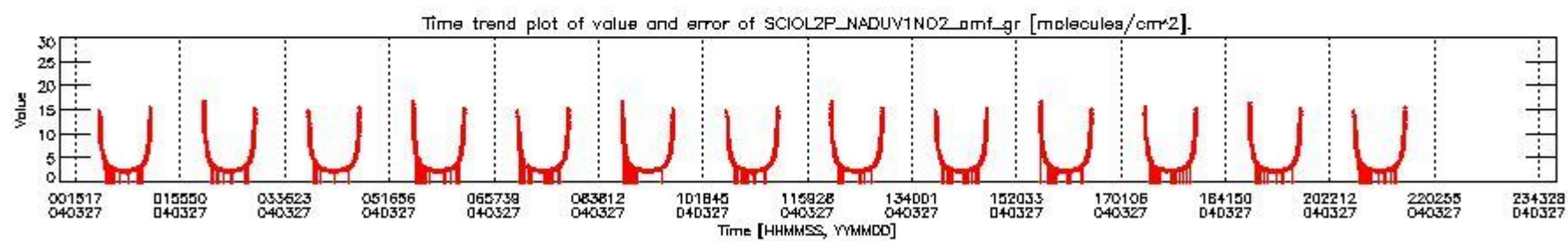
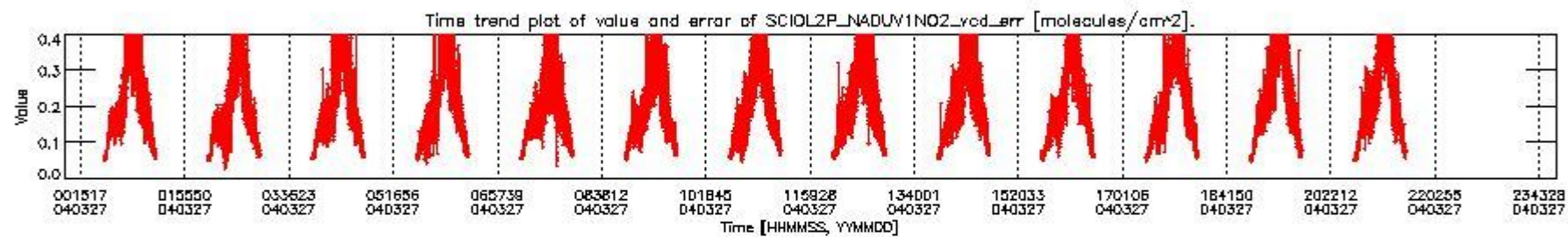
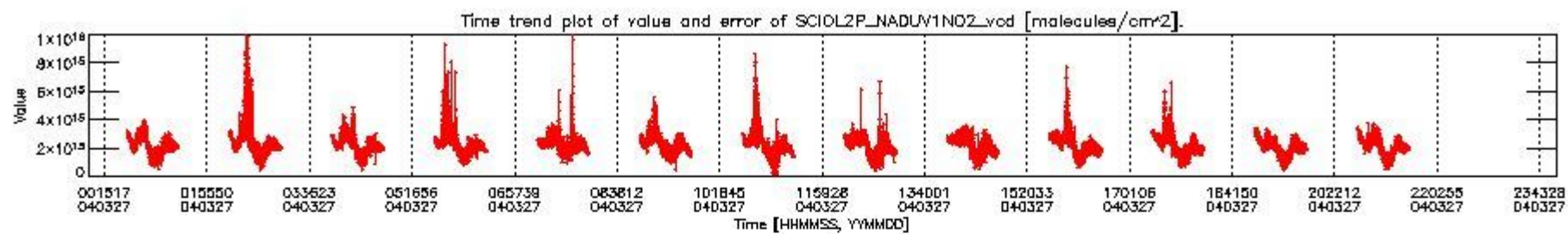


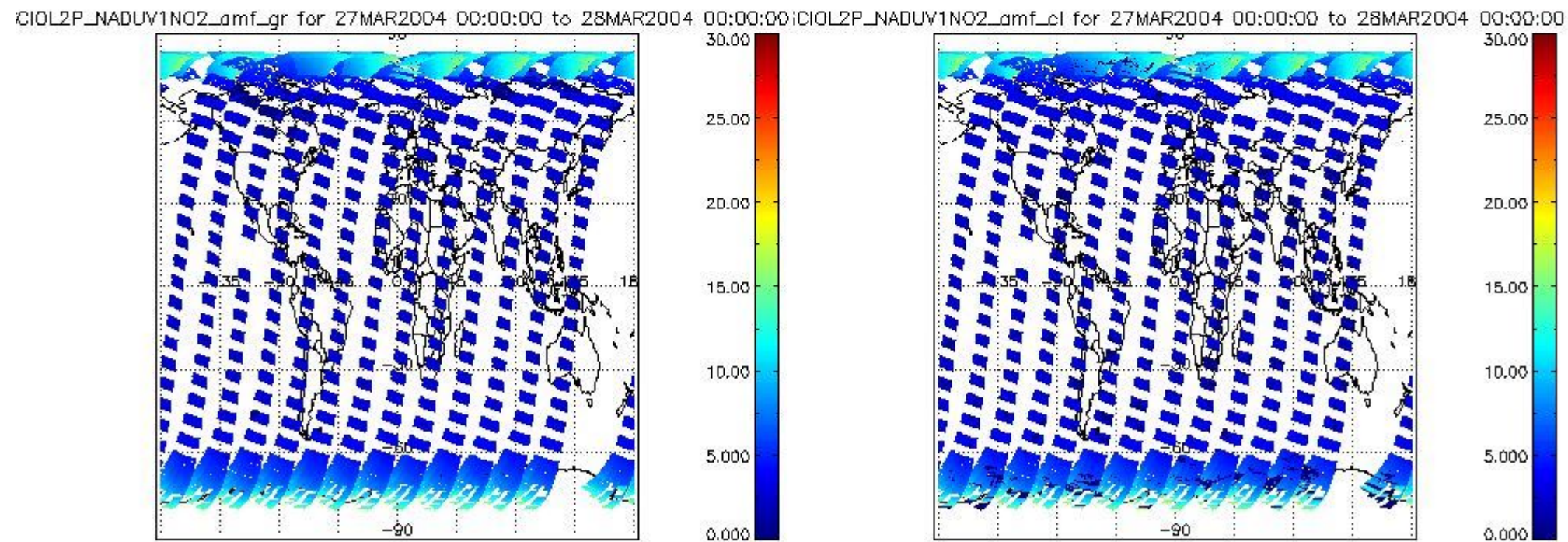
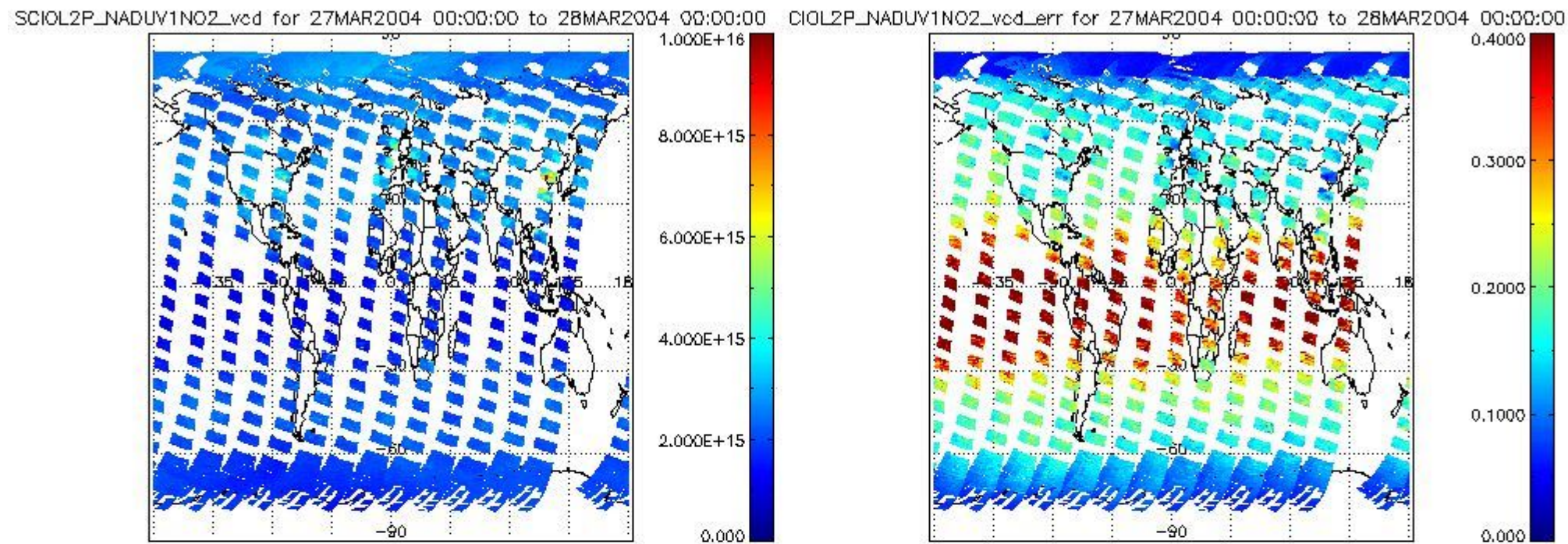
SCIOL2P_NADUV003_vcd for 27MAR2004 00:00:00 to 28MAR2004 00:00:00 SCIOL2P_NADUV003_vcd_err for 27MAR2004 00:00:00 to 28MAR2004 00:00:00



SCIOL2P_NADUV003_amf_gr for 27MAR2004 00:00:00 to 28MAR2004 00:00:00 SCIOL2P_NADUV003_amf_cl for 27MAR2004 00:00:00 to 28MAR2004 00:00:00







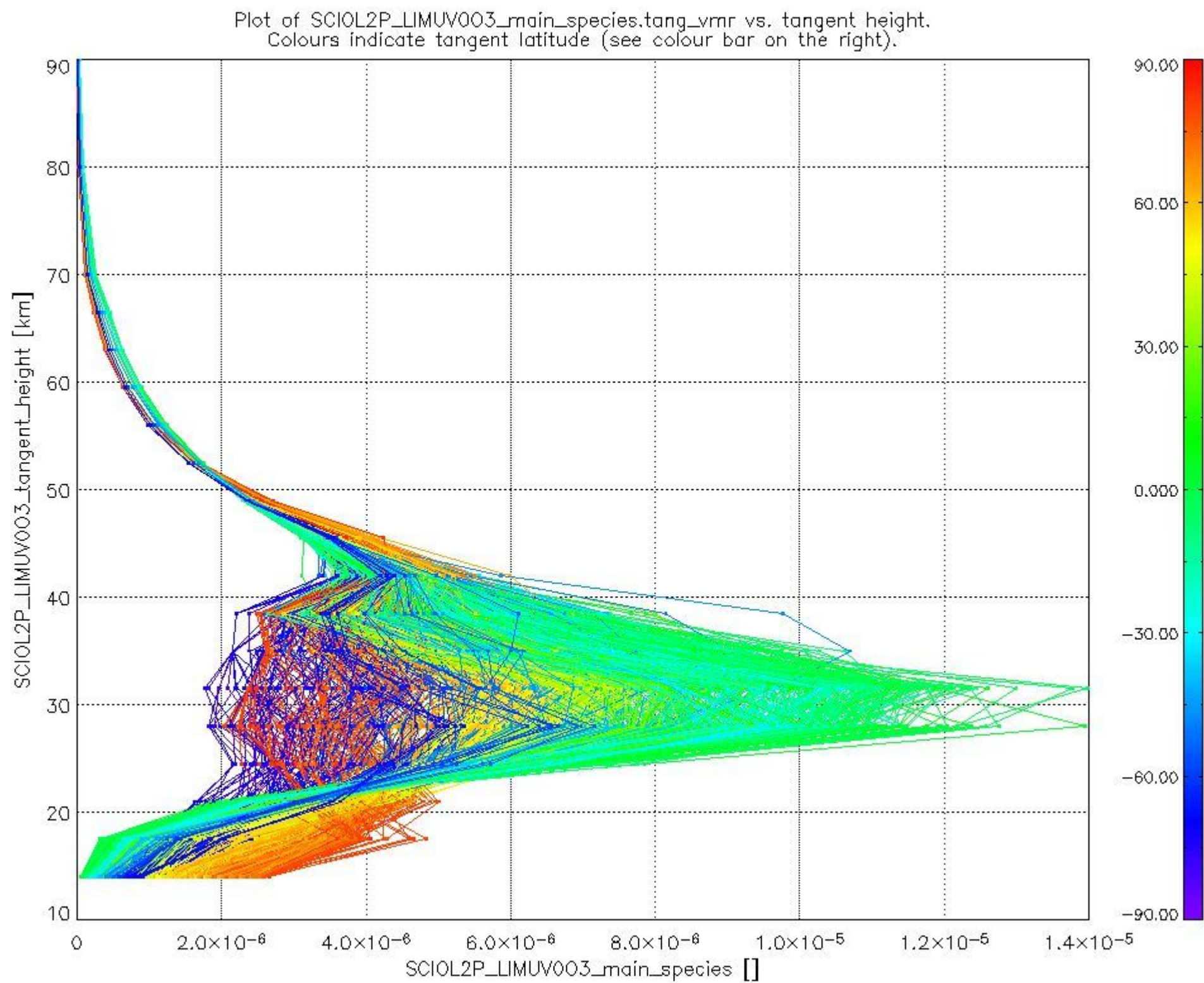
2.2.3 Limb

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

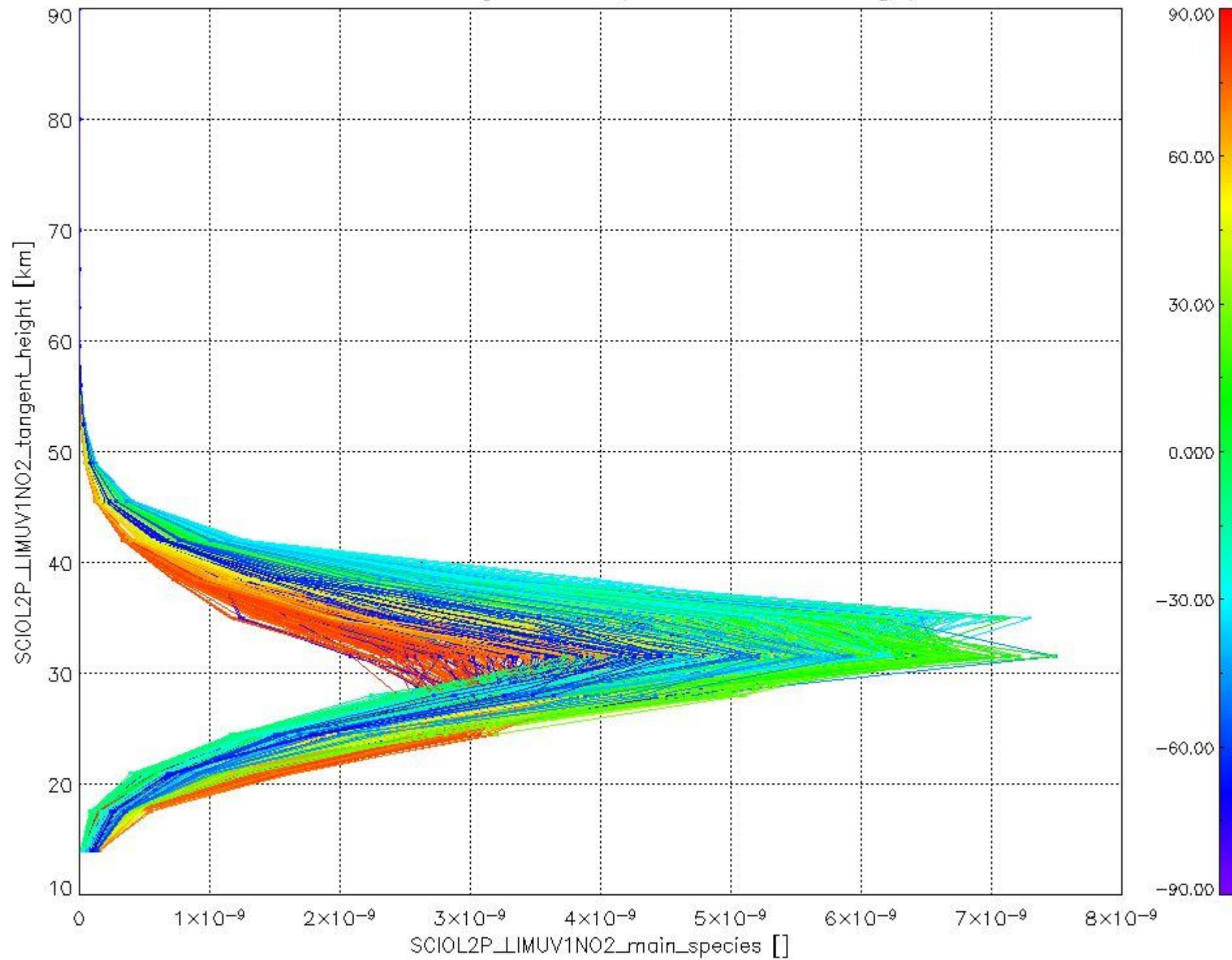
The following data items are currently included into this section:

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.



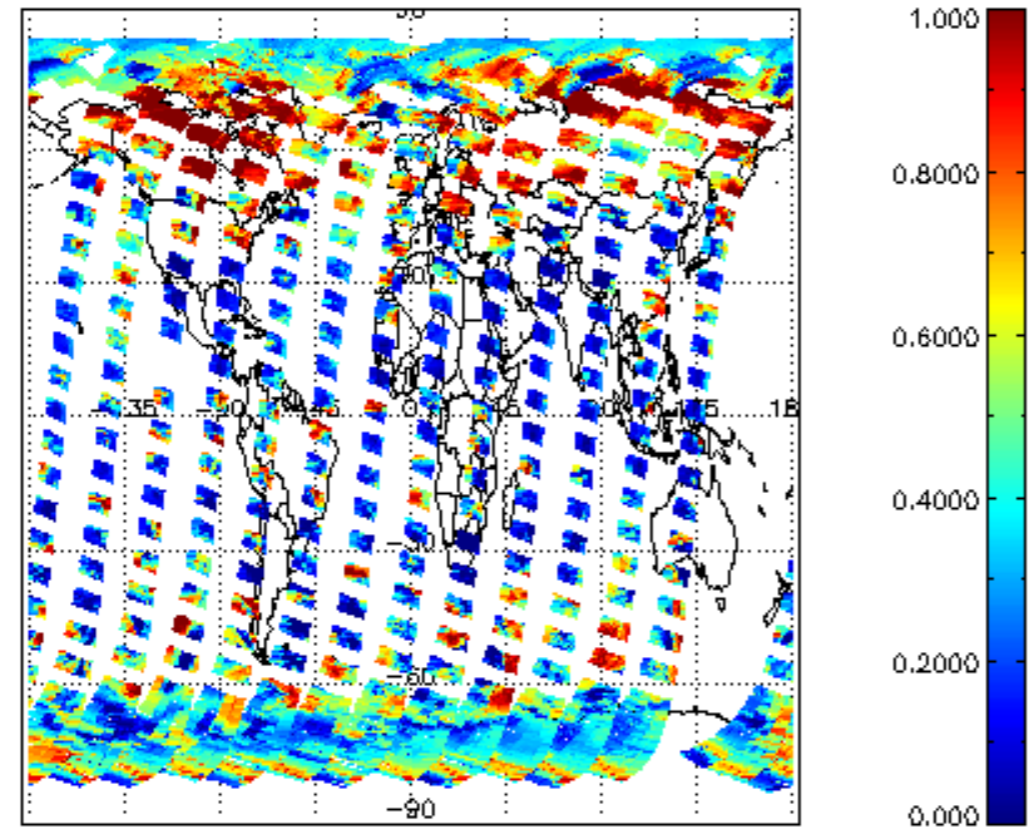
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



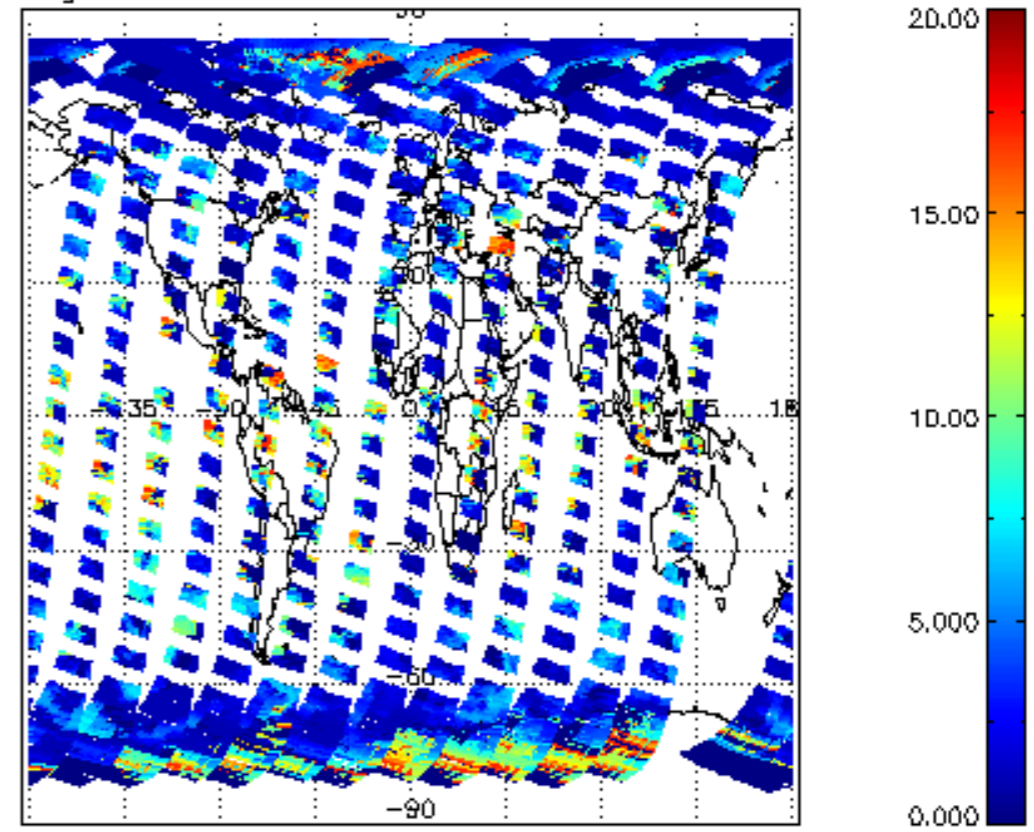
2.3 ADF monitoring

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

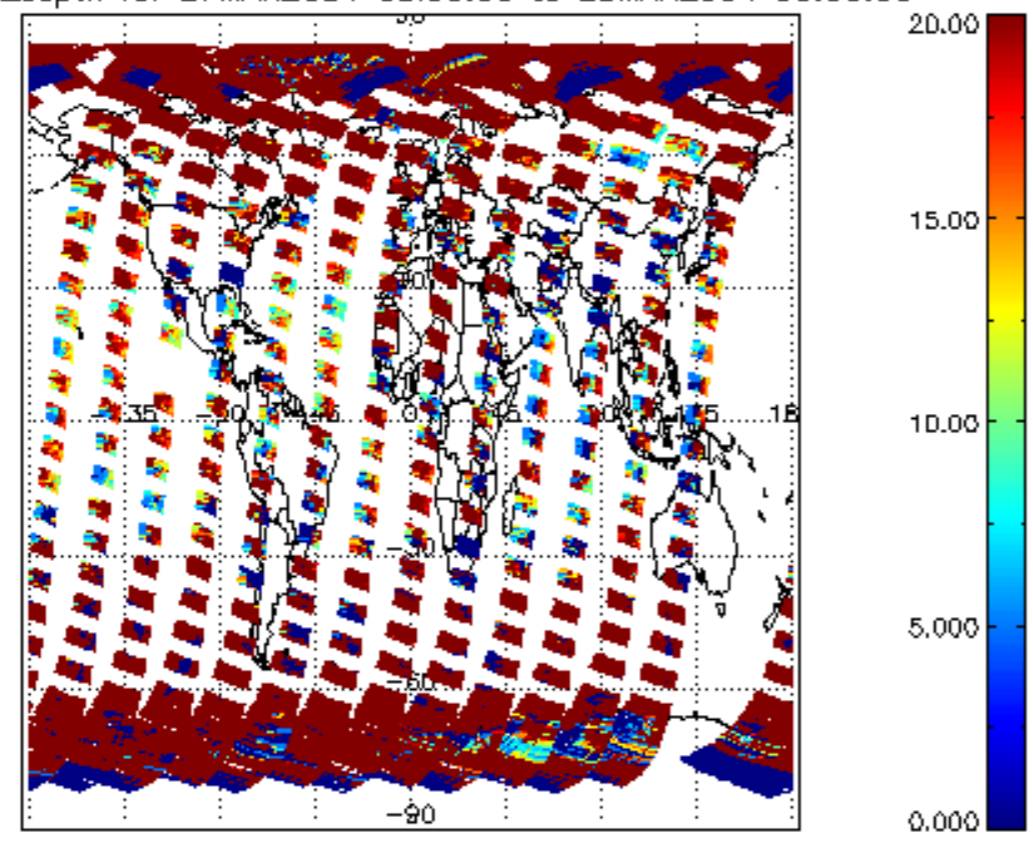
cL_frac for 27MAR2004 00:00:00 to 28MAR2004 00:00:00



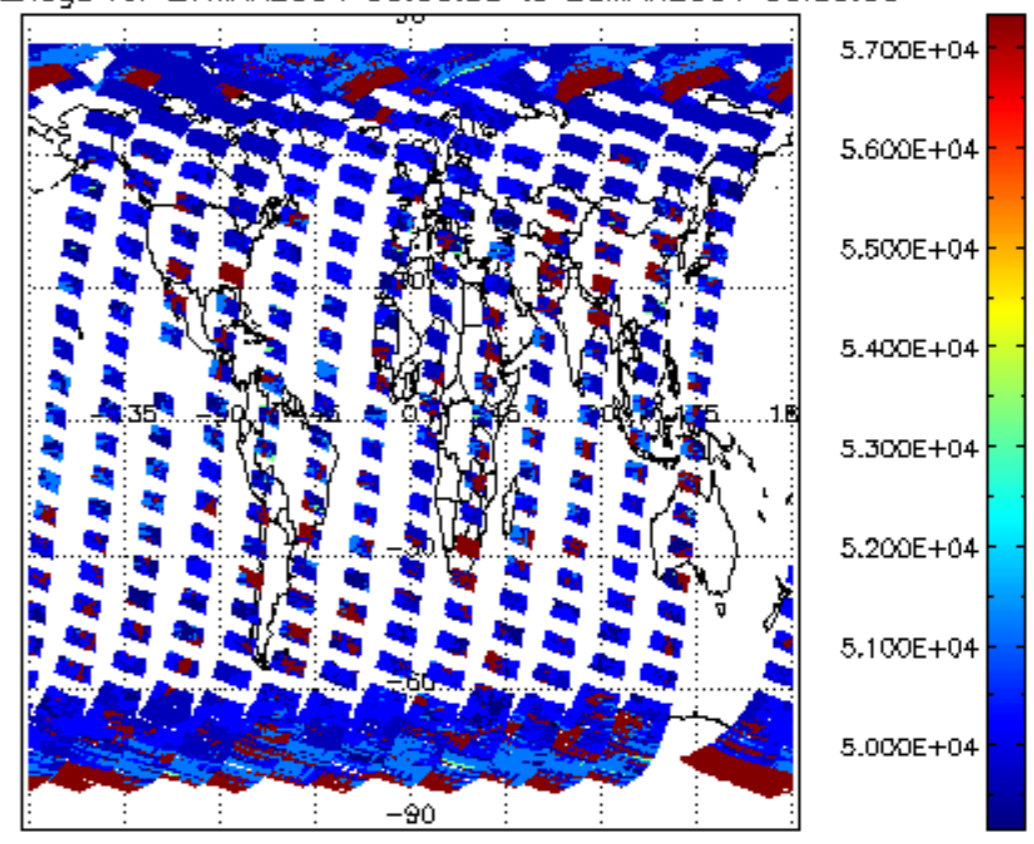
cL_top_height for 27MAR2004 00:00:00 to 28MAR2004 00:00:00

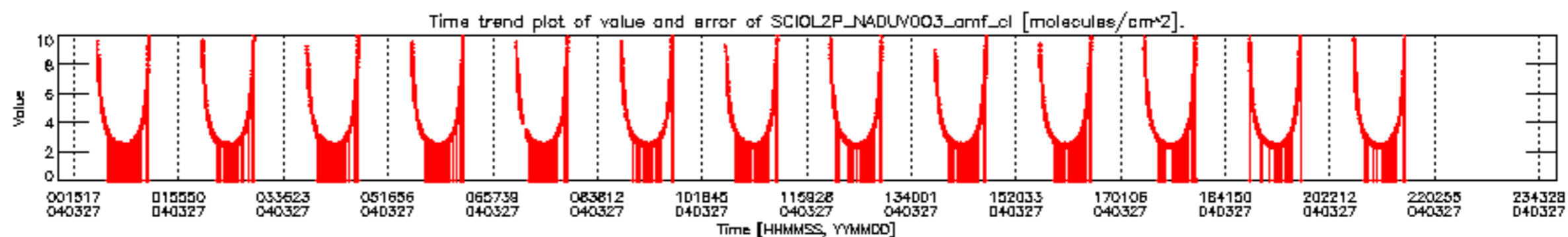
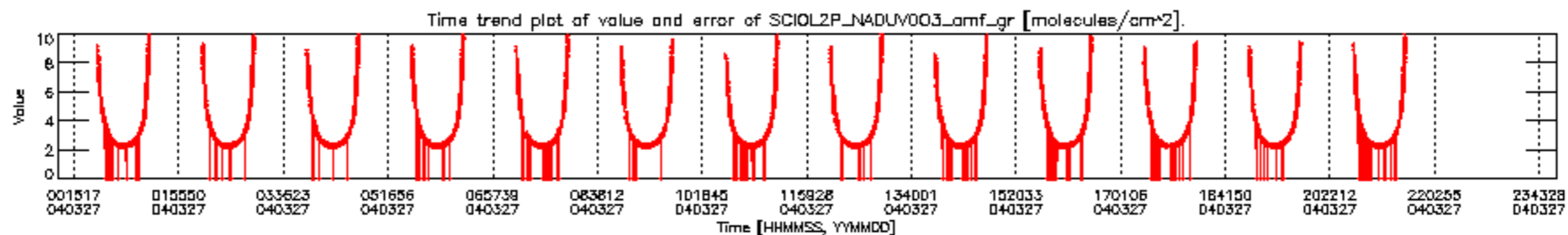
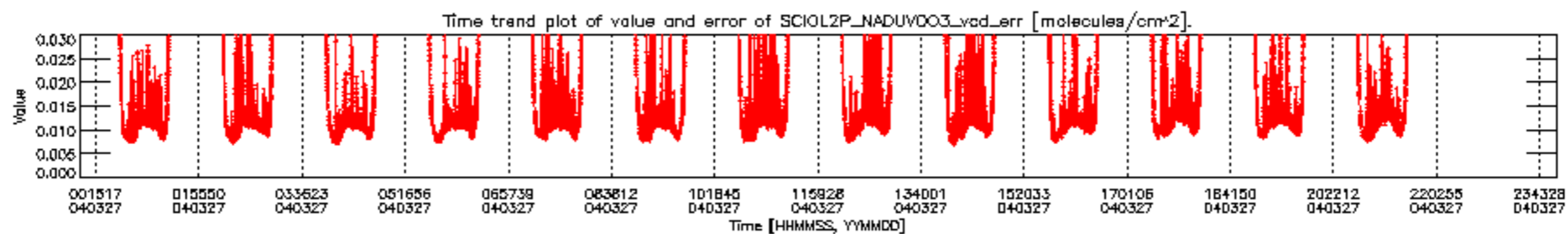
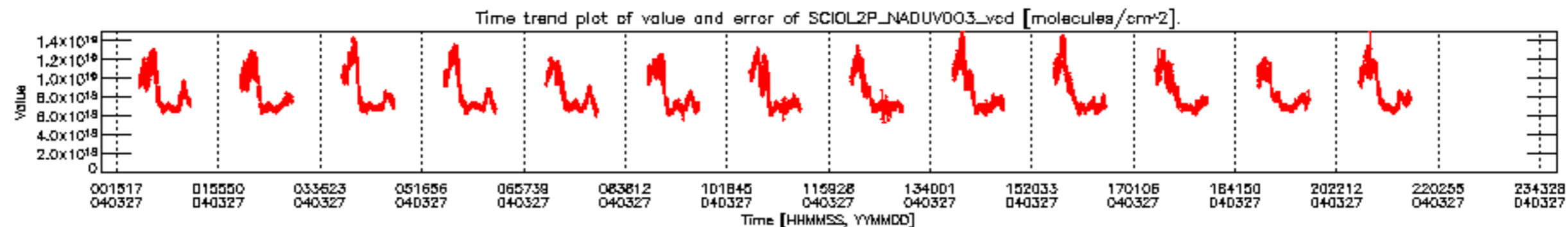


cL_opt_depth for 27MAR2004 00:00:00 to 28MAR2004 00:00:00

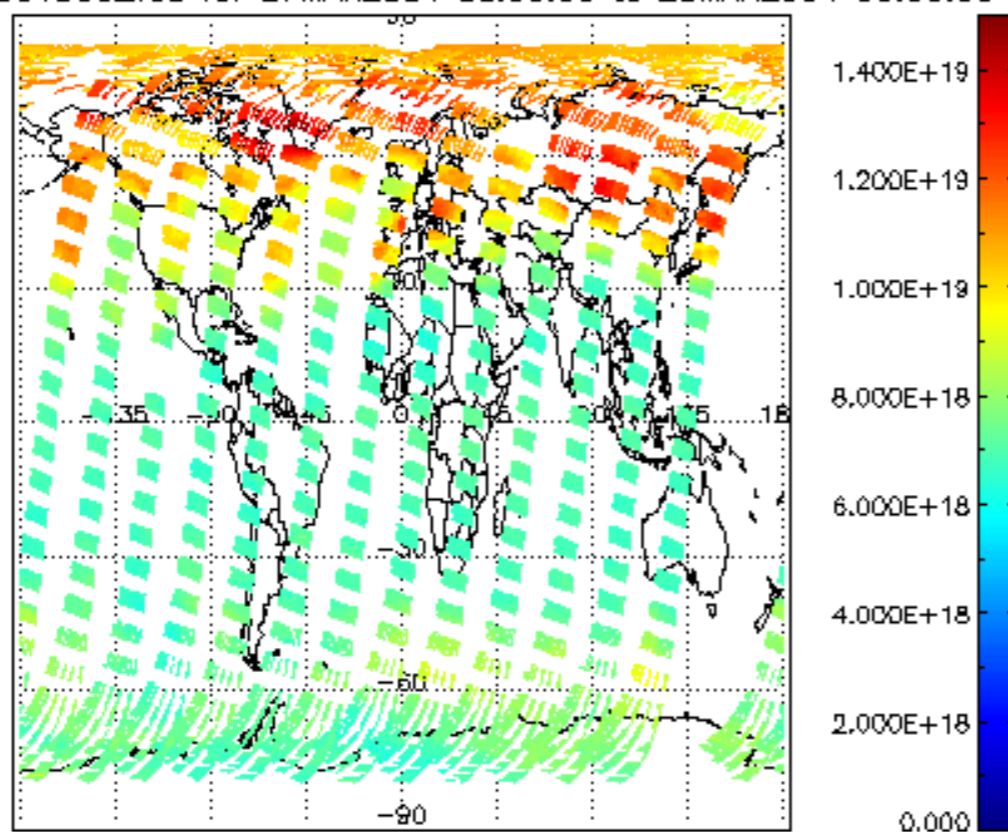


cloud_flags for 27MAR2004 00:00:00 to 28MAR2004 00:00:00

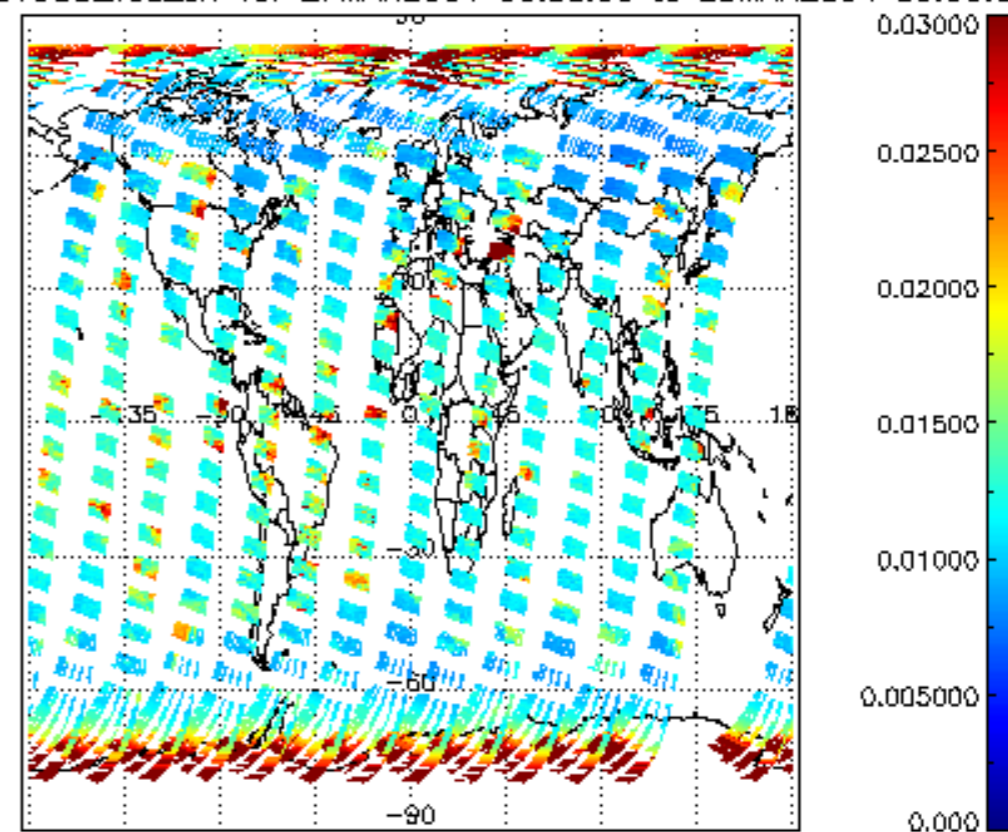




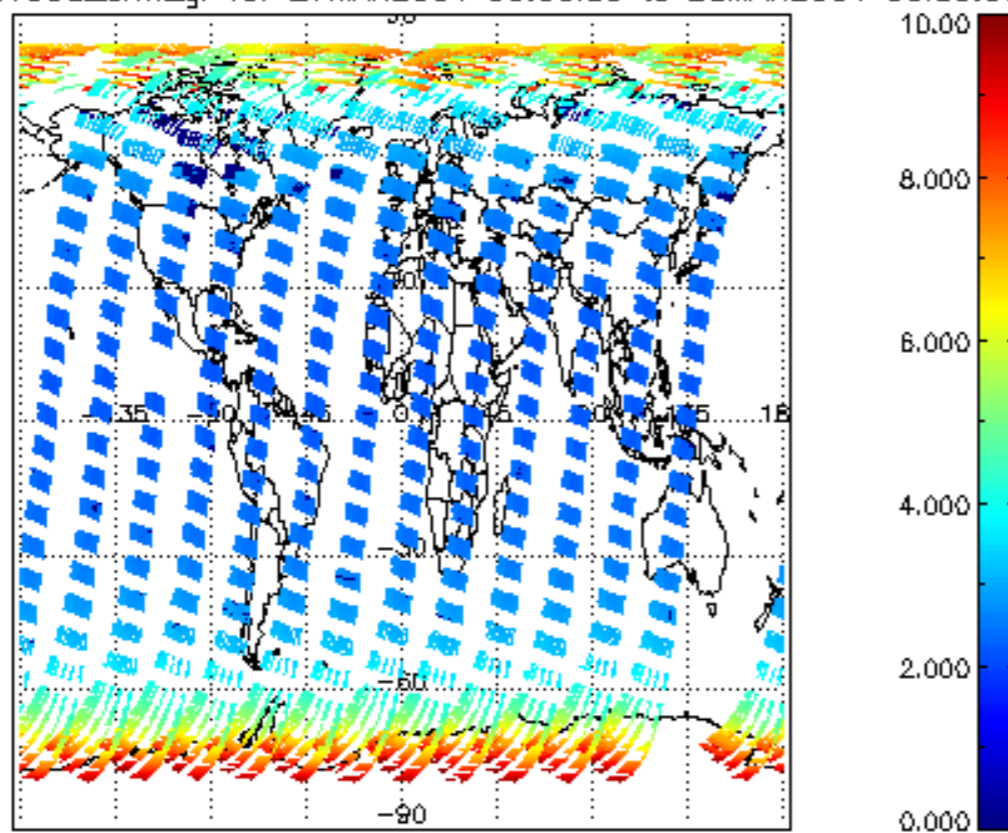
SCIOL2P_NADUV003_vcd for 27MAR2004 00:00:00 to 28MAR2004 00:00:00



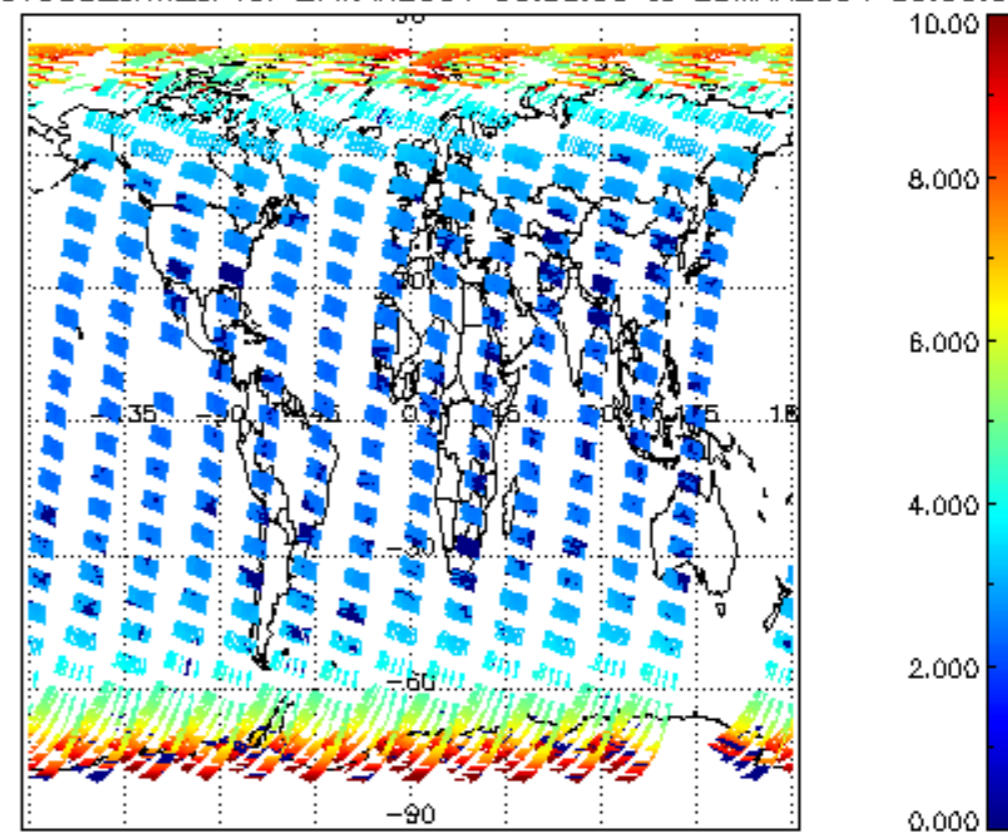
SCIOL2P_NADUV003_vcd_err for 27MAR2004 00:00:00 to 28MAR2004 00:00:00

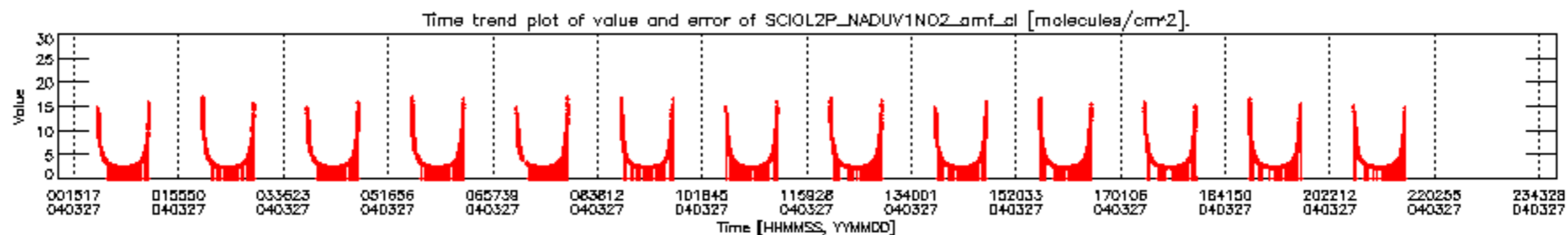
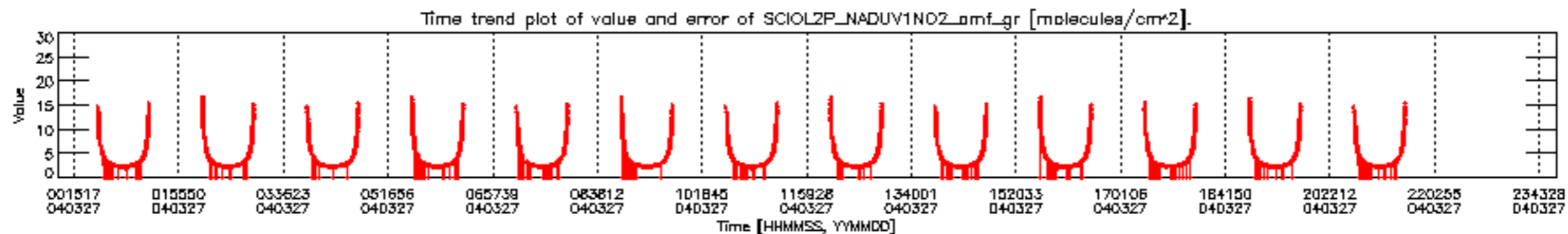
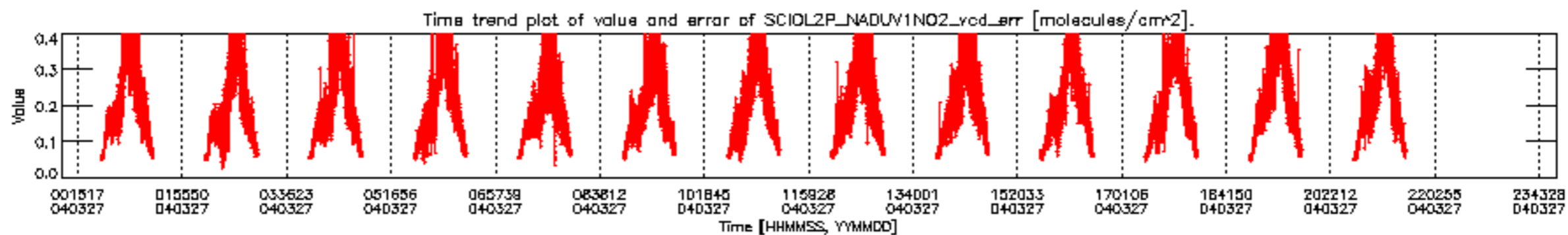
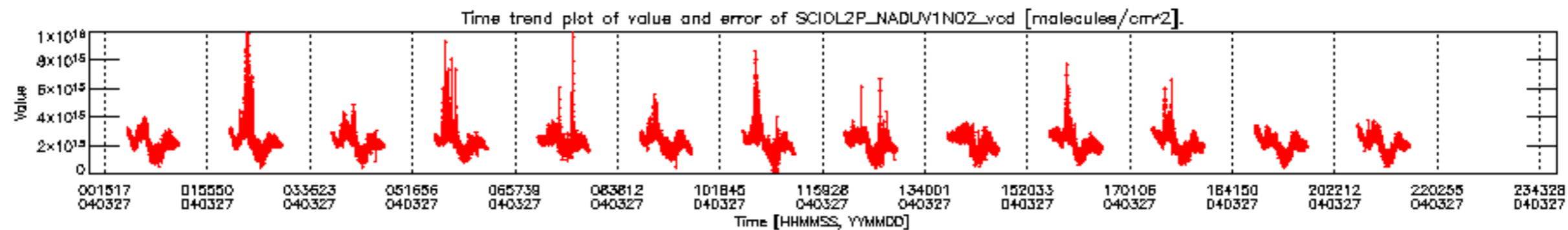


SCIOL2P_NADUV003_amf_gr for 27MAR2004 00:00:00 to 28MAR2004 00:00:00

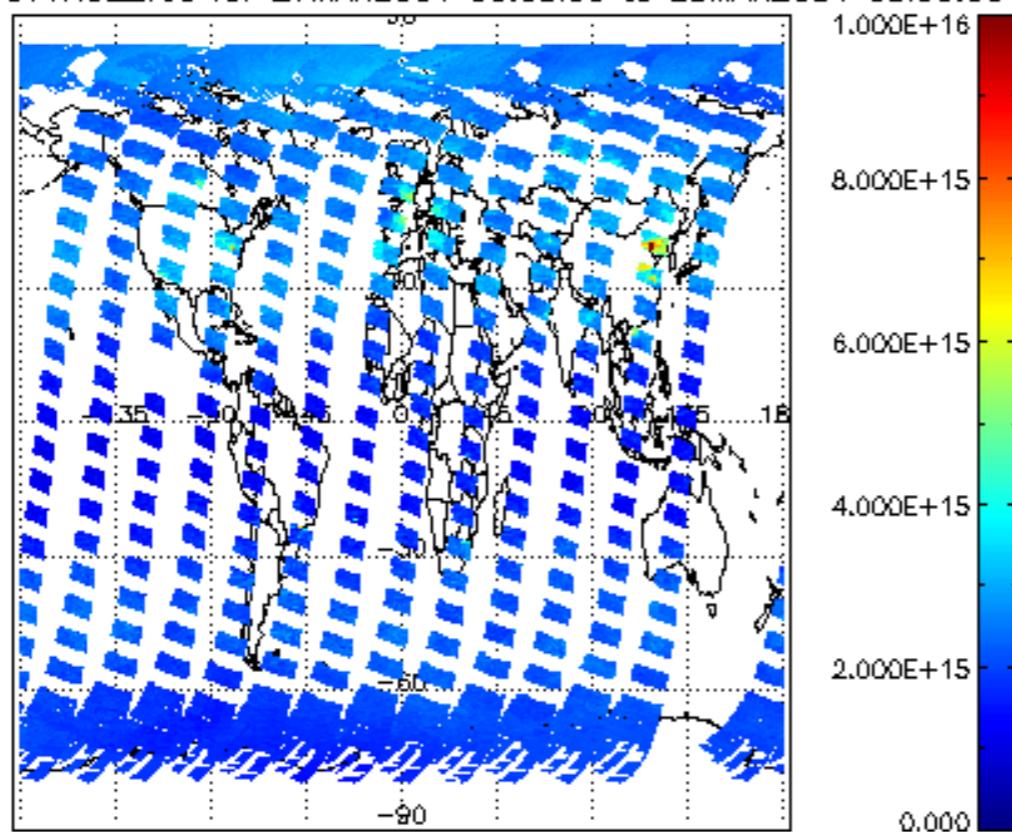


SCIOL2P_NADUV003_amf_cl for 27MAR2004 00:00:00 to 28MAR2004 00:00:00

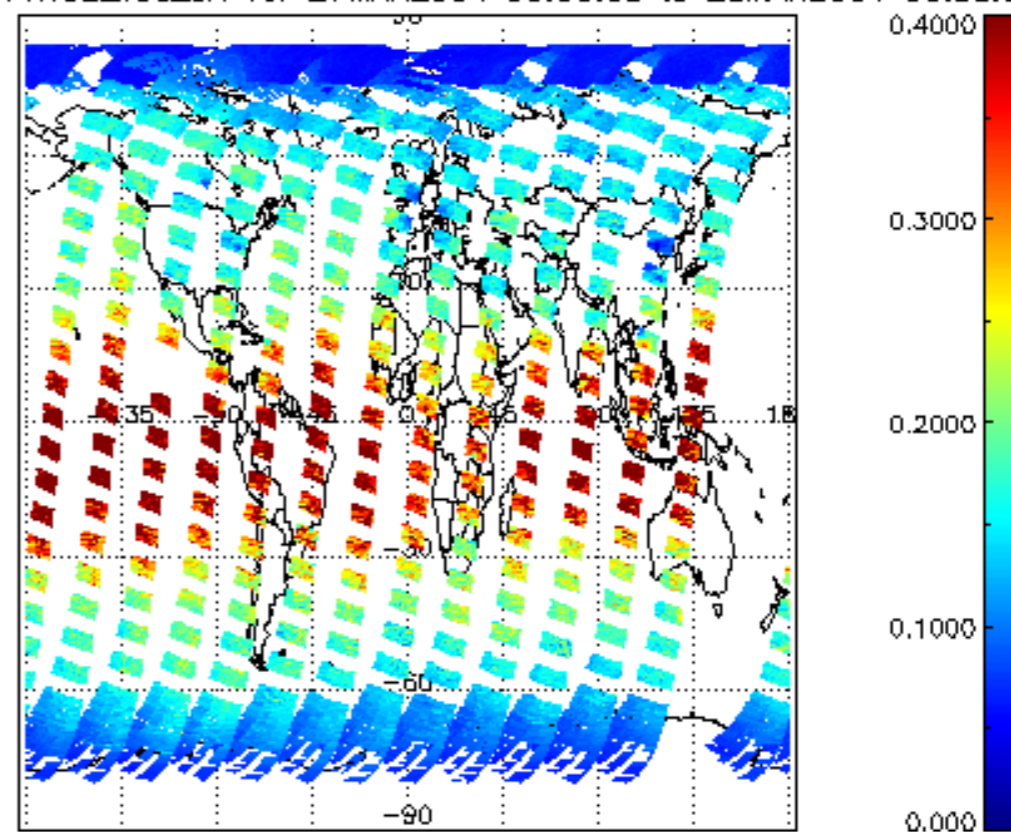




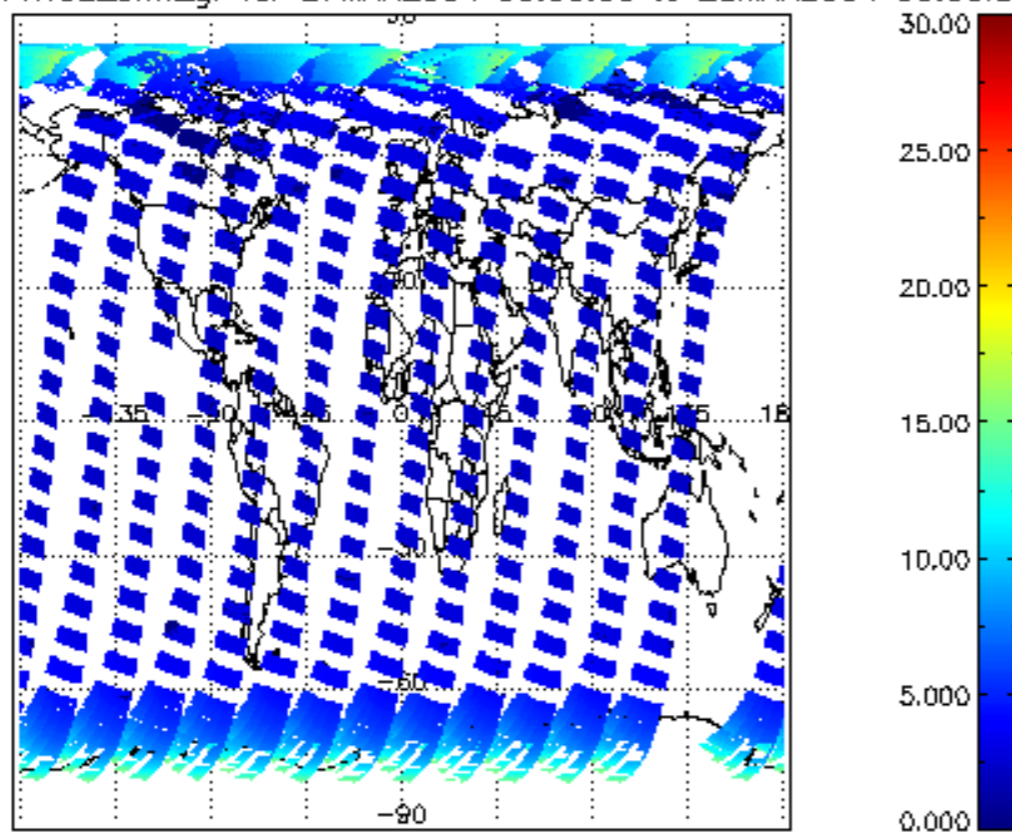
SCIOL2P_NADUV1NO2_vcd for 27MAR2004 00:00:00 to 28MAR2004 00:00:00



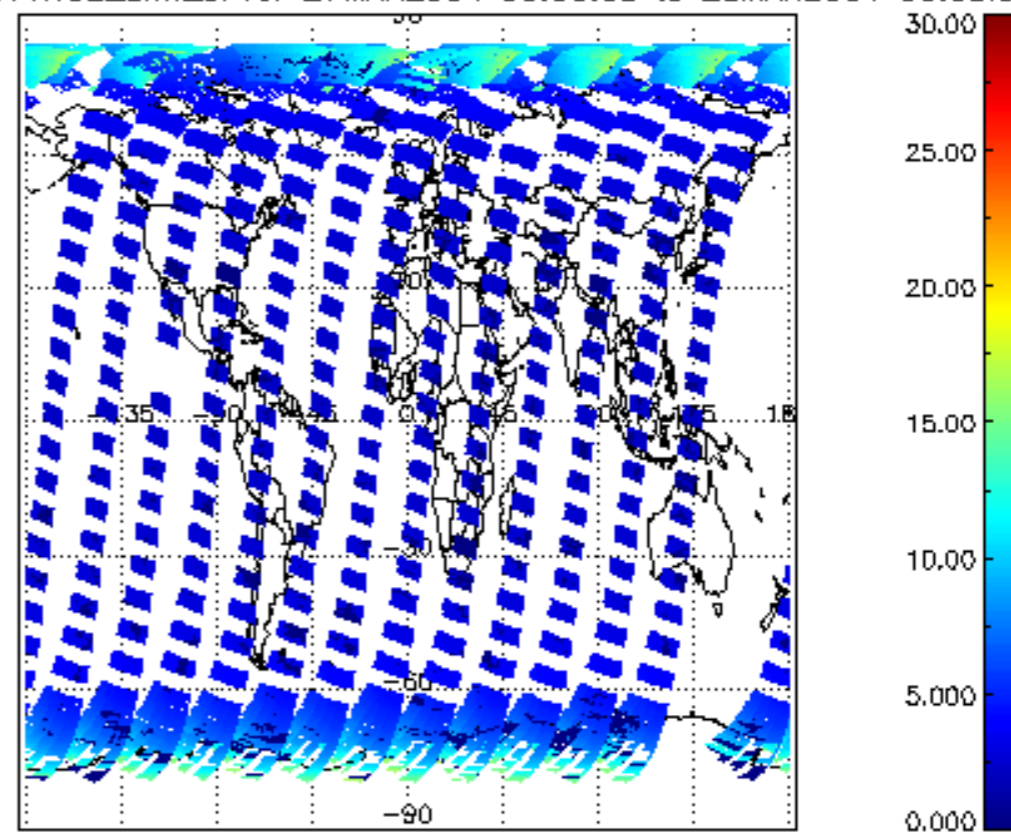
SCIOL2P_NADUV1NO2_vcd_err for 27MAR2004 00:00:00 to 28MAR2004 00:00:00



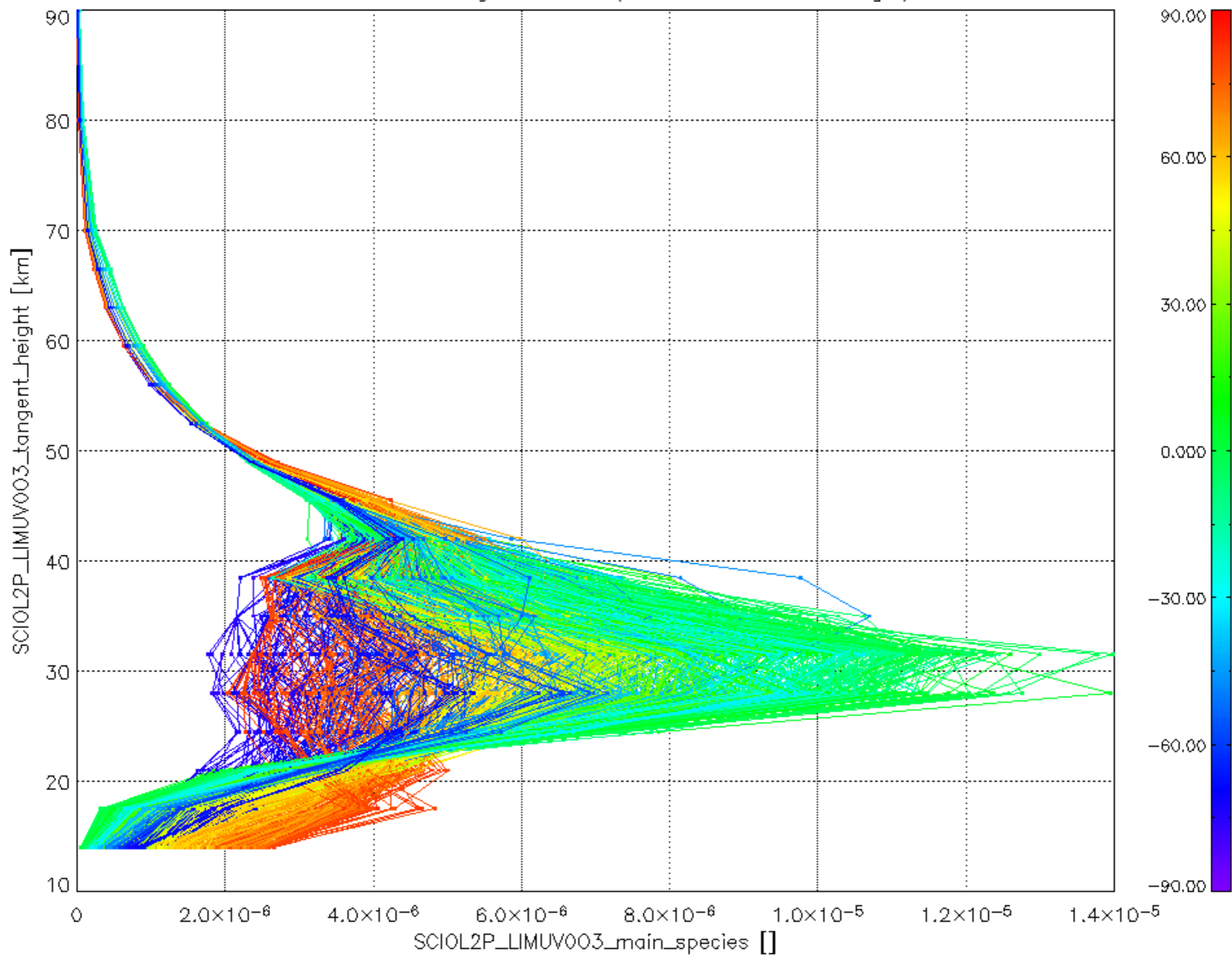
SCIOL2P_NADUV1NO2_amf_gr for 27MAR2004 00:00:00 to 28MAR2004 00:00:00



SCIOL2P_NADUV1NO2_amf_cl for 27MAR2004 00:00:00 to 28MAR2004 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).

