

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	14AUG2008 18:51:32
Data source version	SCIA-OL/3.01-R
Processing scope for products	03MAY2004 00:00:00 to 04MAY2004 00:00:00
Start time of first product within scope	02MAY2004 23:25:44
Stop time of last product within scope	03MAY2004 23:50:00
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__2PRDPA20040502_232544_000033432026_00288_11364_7697.N1	02MAY2004 23:25:44	03MAY2004 00:21:28	0	GOOD
1	SCI_OL__2PRDPA20040503_010620_000033332026_00289_11365_7667.N1	03MAY2004 01:06:20	03MAY2004 02:01:53	0	GOOD
2	SCI_OL__2PRDPA20040503_024655_000033232026_00290_11366_7698.N1	03MAY2004 02:46:55	03MAY2004 03:42:19	0	GOOD
3	SCI_OL__2PRDPA20040503_042731_000033132026_00291_11367_7696.N1	03MAY2004 04:27:31	03MAY2004 05:22:44	0	GOOD
4	SCI_OL__2PRDPA20040503_060807_000033022026_00292_11368_7662.N1	03MAY2004 06:08:07	03MAY2004 07:03:09	0	GOOD
5	SCI_OL__2PRDPA20040503_074842_000032922026_00293_11369_7659.N1	03MAY2004 07:48:42	03MAY2004 08:43:34	0	GOOD
6	SCI_OL__2PRDPA20040503_092918_000033642026_00294_11370_7648.N1	03MAY2004 09:29:18	03MAY2004 10:25:23	0	GOOD
7	SCI_OL__2PRDPA20040503_110953_000033542026_00295_11371_7692.N1	03MAY2004 11:09:53	03MAY2004 12:05:48	0	GOOD
8	SCI_OL__2PRDPA20040503_125029_000033432026_00296_11372_7678.N1	03MAY2004 12:50:29	03MAY2004 13:46:12	0	GOOD
9	SCI_OL__2PRDPA20040503_143105_000033312026_00297_11373_7639.N1	03MAY2004 14:31:05	03MAY2004 15:26:37	0	GOOD
10	SCI_OL__2PRDPA20040503_161140_000033202026_00298_11374_7675.N1	03MAY2004 16:11:40	03MAY2004 17:07:01	0	GOOD
11	SCI_OL__2PRDPA20040503_175217_000033352026_00299_11375_7608.N1	03MAY2004 17:52:17	03MAY2004 18:47:52	0	GOOD
12	SCI_OL__2PRDPA20040503_193308_000032812026_00300_11376_7605.N1	03MAY2004 19:33:08	03MAY2004 20:27:49	0	GOOD
13	SCI_OL__2PRDPA20040503_211327_000033692026_00301_11377_7706.N1	03MAY2004 21:13:27	03MAY2004 22:09:37	0	GOOD
14	SCI_OL__2PRDPA20040503_225403_000033572026_00302_11378_7676.N1	03MAY2004 22:54:03	03MAY2004 23:50:00	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: 101352

Total number of cloud data DSRs with good quality flag (=0): 101352 (100.0 %)

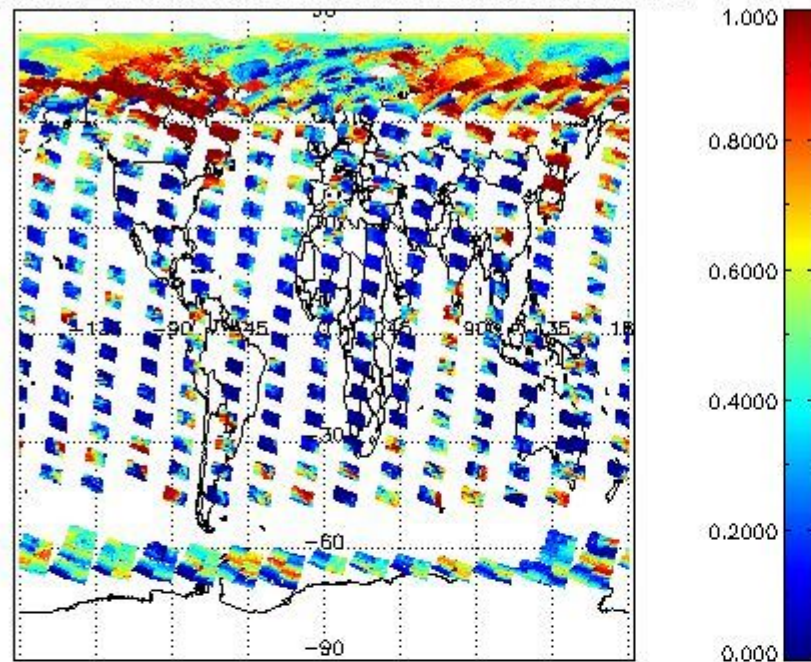
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	101352	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	101352	0.22188	0.25000	0.12500	0.50000	0.089735	s
CL_FRAC	101352	0.42192	0.40676	0.0000	1.0000	0.32438	-
CL_FRAC_ERR	101352	0.0000	0.0000	0.0000	0.0000	0.0000	rel. fraction
PMD_READ	101352	7.1002	8.0000	4.0000	16.000	2.8715	
PMD_READ_CL[0]	101352	0.64590	0.0000	0.0000	16.000	1.9370	-
PMD_READ_CL[1]	101352	1.1437	0.0000	0.0000	16.000	2.5379	-
CL_TOP_HEIGHT	91595	3.2918	1.2830	0.0000	17.000	3.8380	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	91595	54.227	43.763	0.0000	101.00	40.770	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	101352	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	101352	11001000	11000010	11000000	11100000	3070.8	flags
AERO_ABSO_IND	101352	0.72348	0.72762	-4.1664	11.387	1.0158	
AERO_IND_DIAG	101352	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	101352	01110101	11000000	00000000	11000000	23968.	flags

Time and geolocation plots:

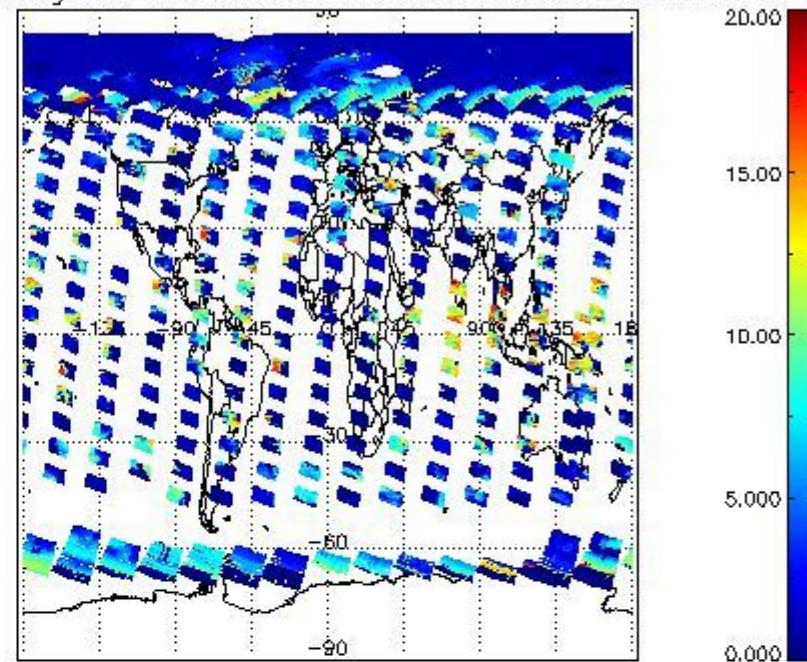
Plots are available for the following parameters:

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

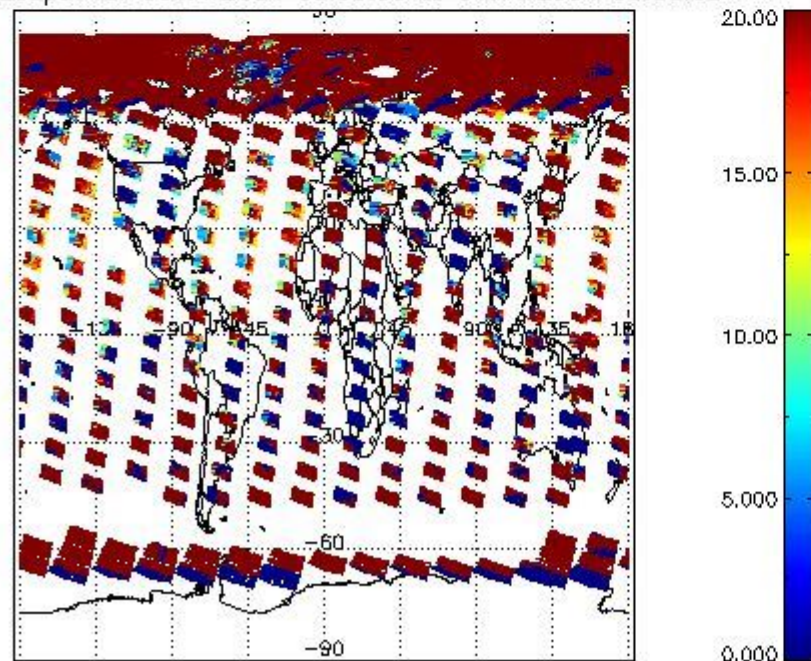
cL_frac for 03MAY2004 00:00:00 to 04MAY2004 00:00:00



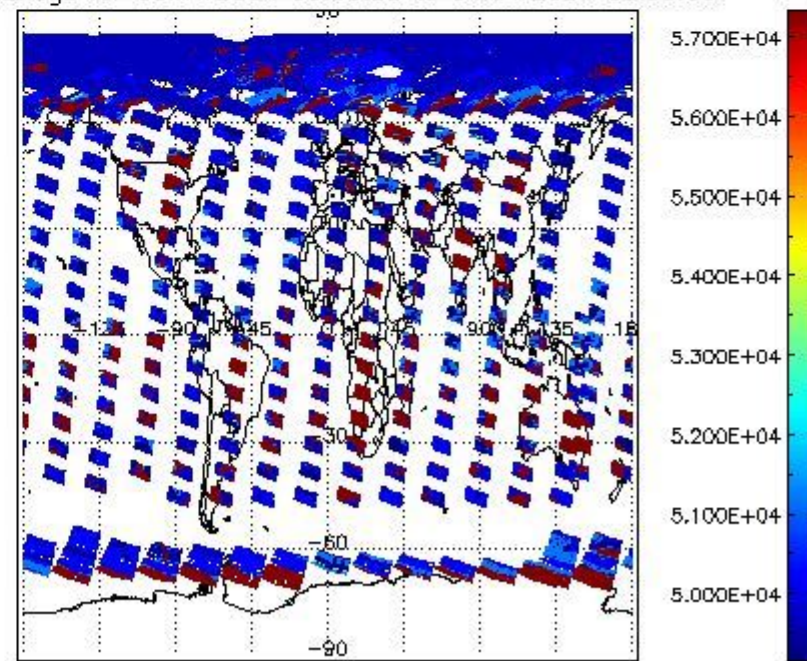
cL_top_height for 03MAY2004 00:00:00 to 04MAY2004 00:00:00



cL_opt_depth for 03MAY2004 00:00:00 to 04MAY2004 00:00:00



cloud_flags for 03MAY2004 00:00:00 to 04MAY2004 00:00:00



2.2.2 Nadir

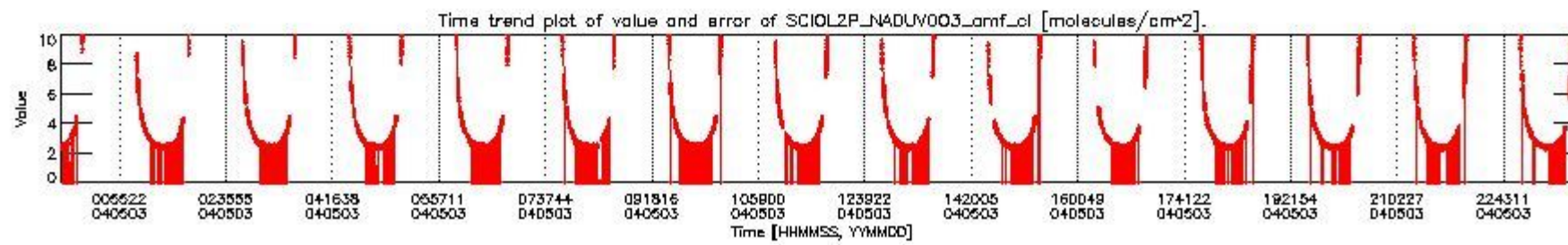
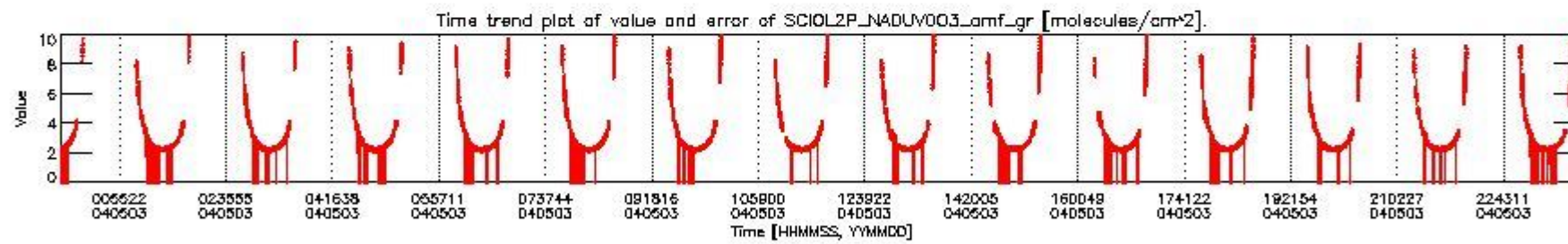
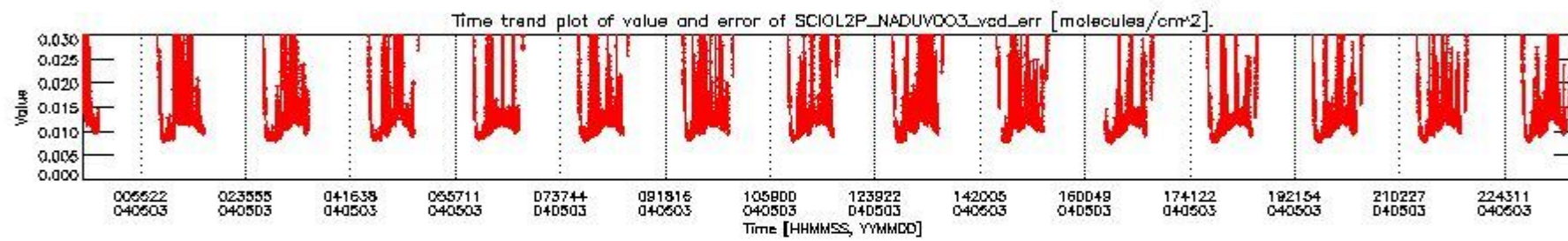
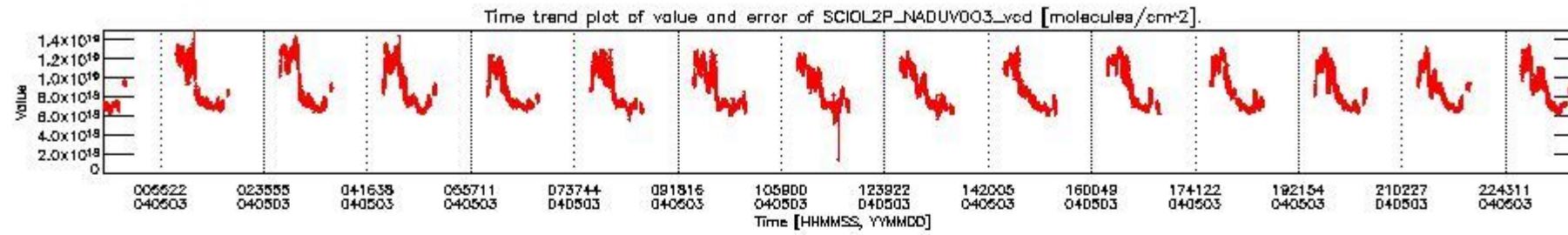
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

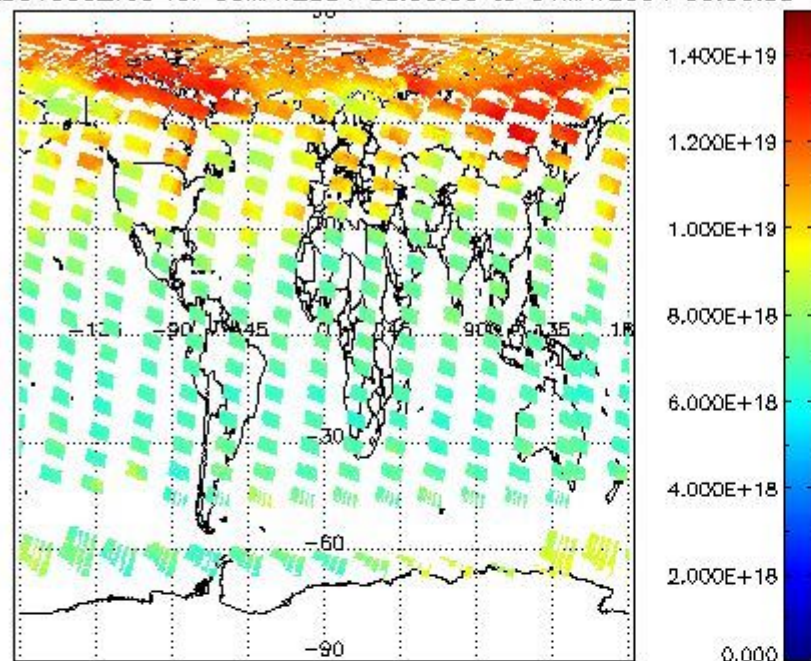
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

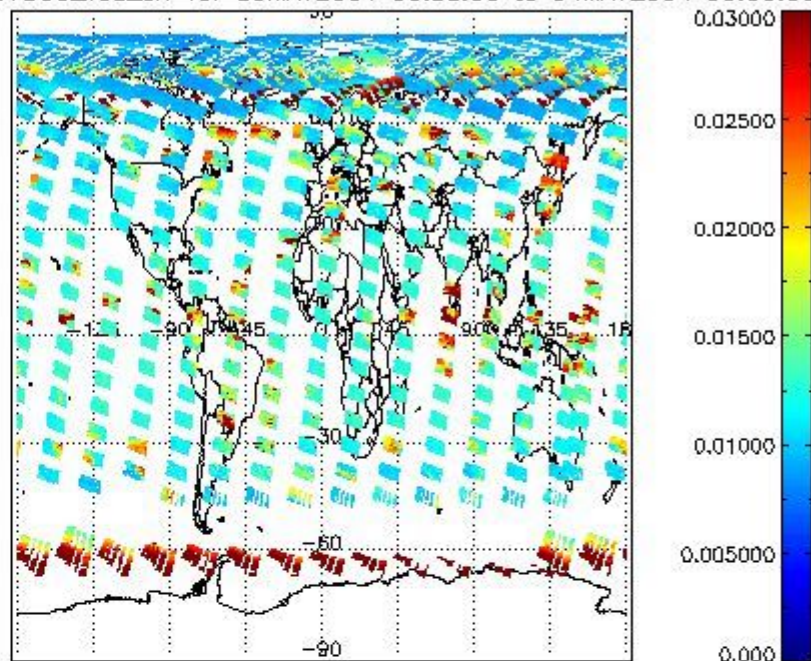
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



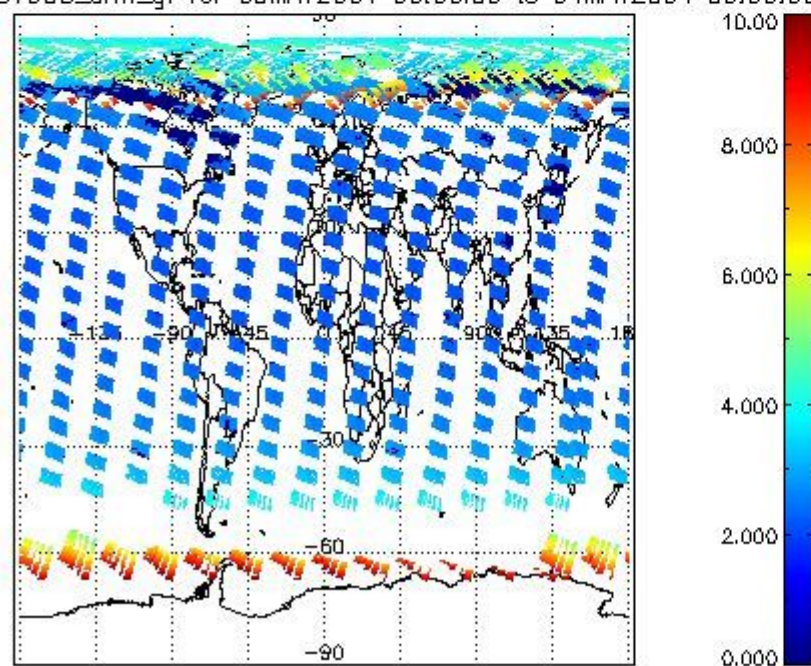
SCIOL2P_NADUV003_vcd for 03MAY2004 00:00:00 to 04MAY2004 00:00:00



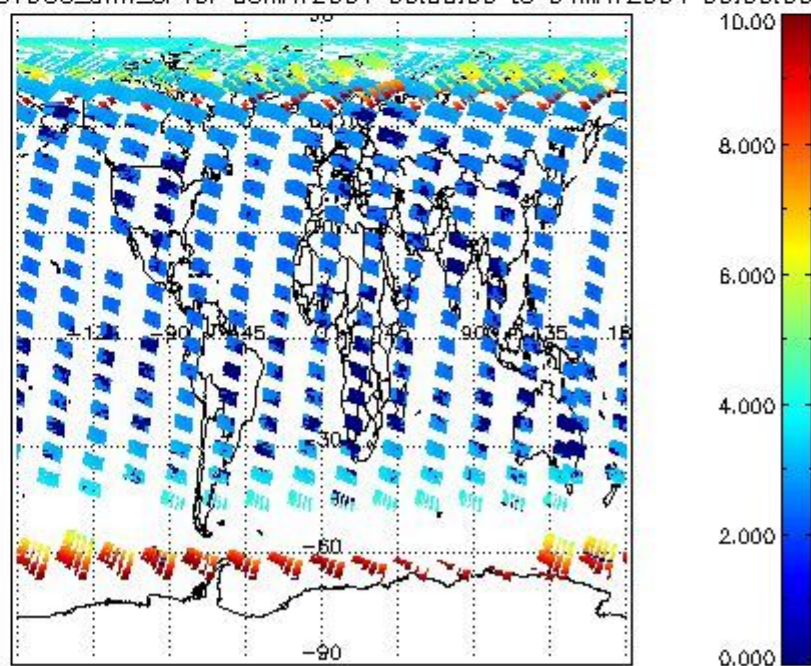
SCIOL2P_NADUV003_vcd_err for 03MAY2004 00:00:00 to 04MAY2004 00:00:00

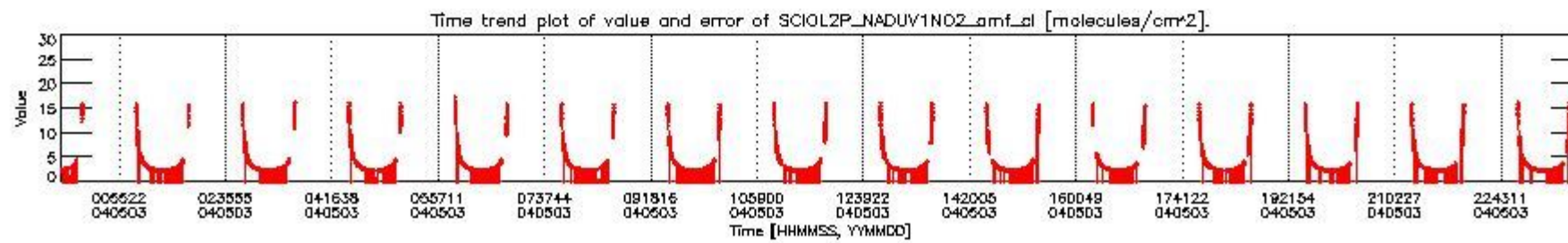
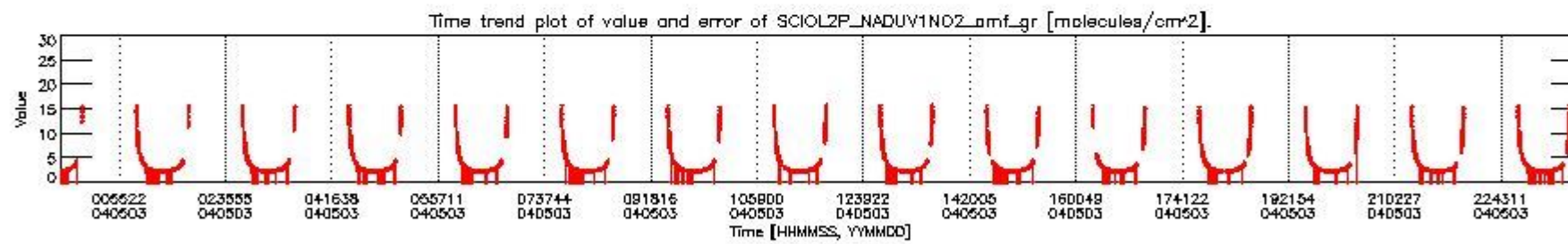
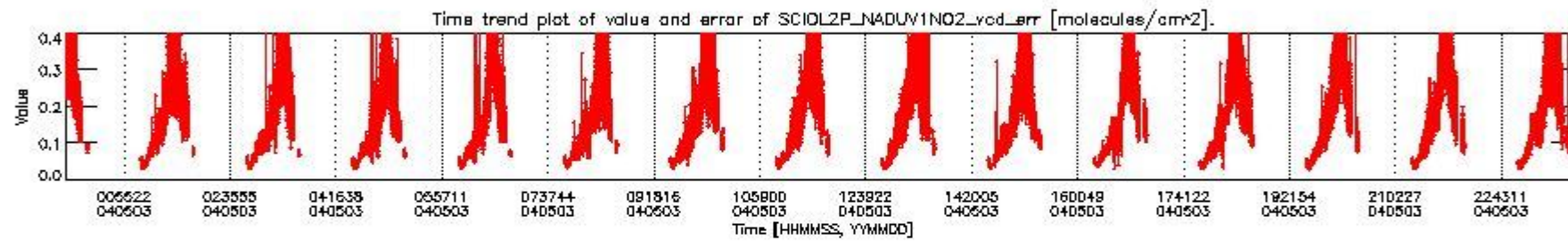
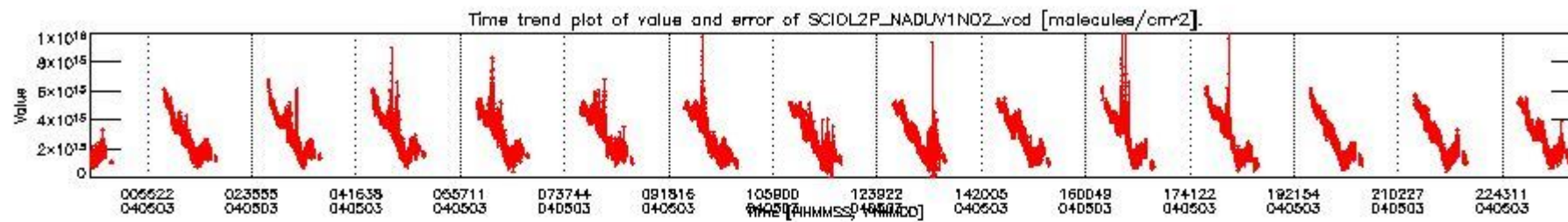


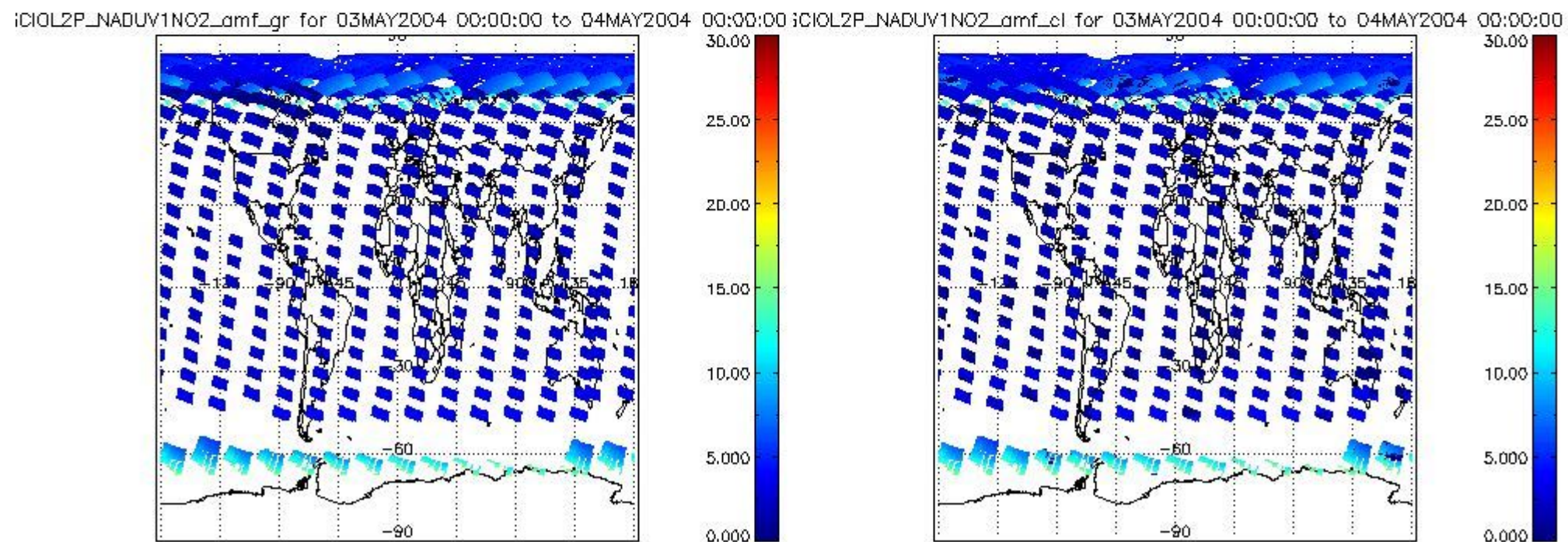
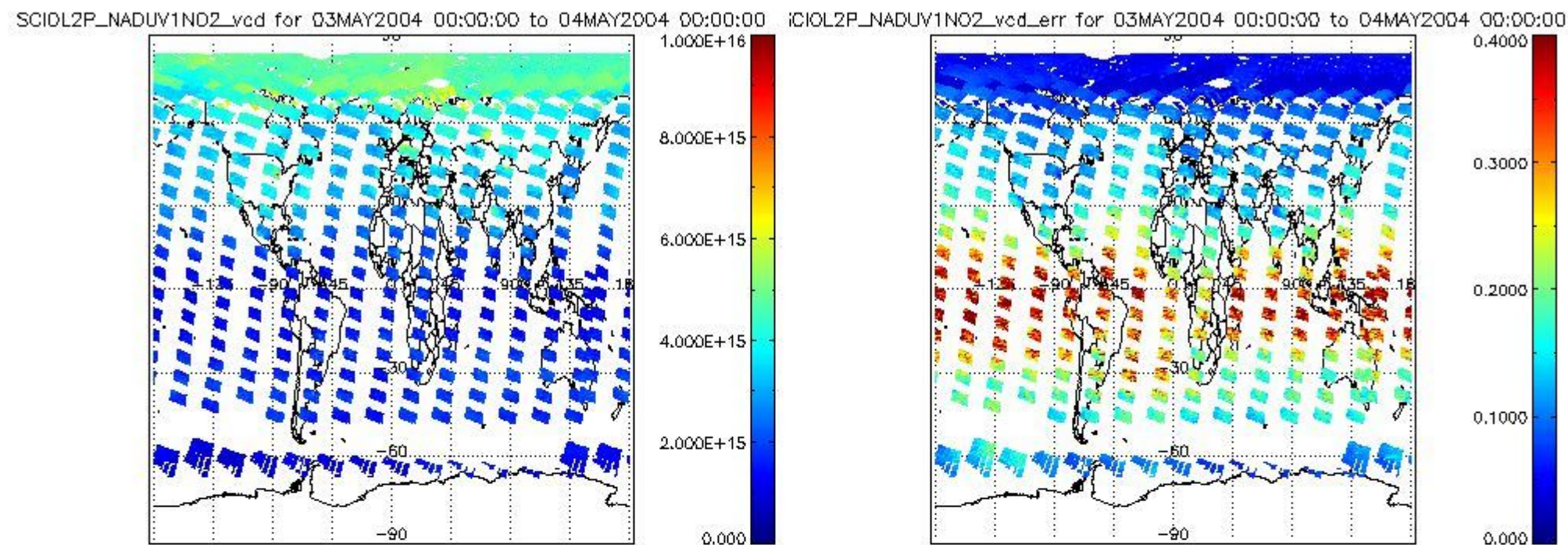
SCIOL2P_NADUV003_amf_gr for 03MAY2004 00:00:00 to 04MAY2004 00:00:00



SCIOL2P_NADUV003_amf_cl for 03MAY2004 00:00:00 to 04MAY2004 00:00:00







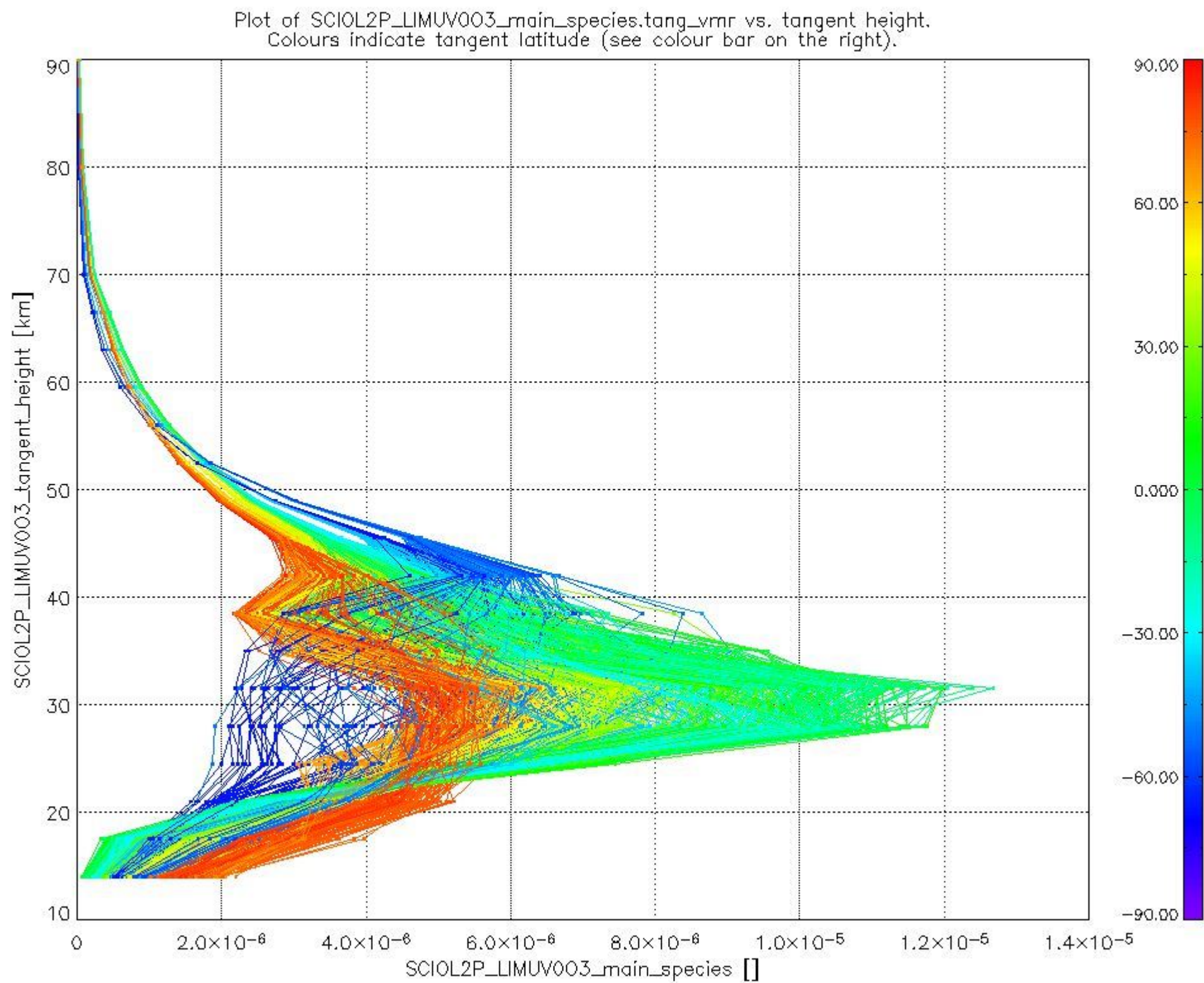
2.2.3 Limb

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

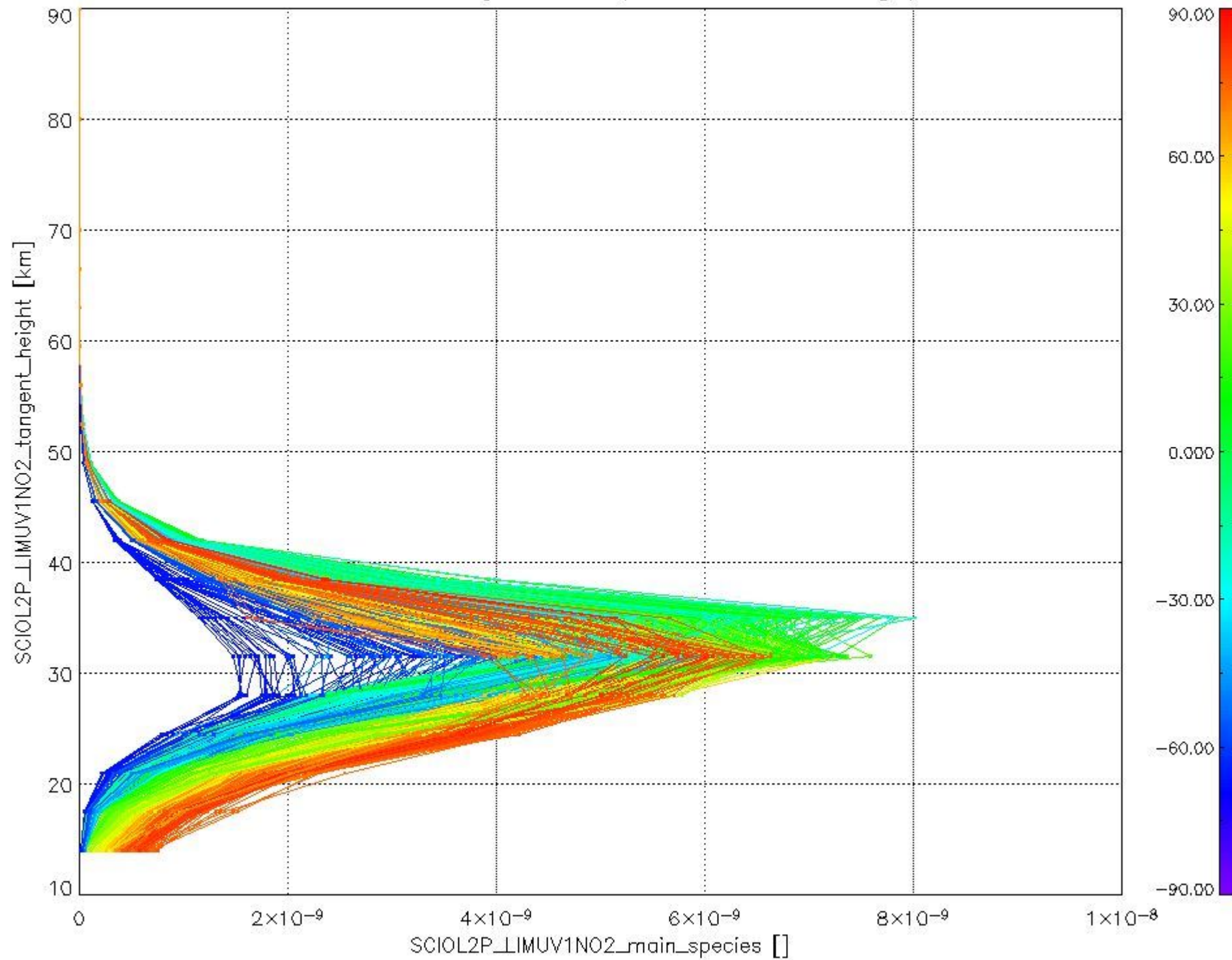
The following data items are currently included into this section:

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.



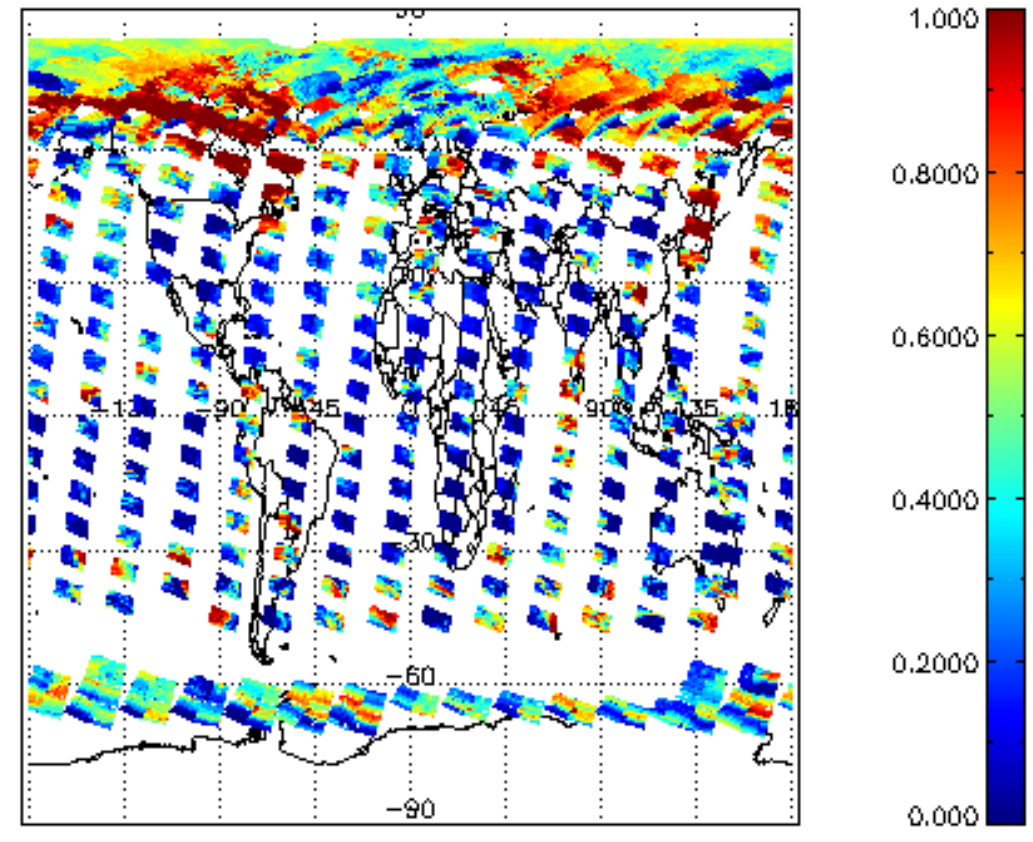
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



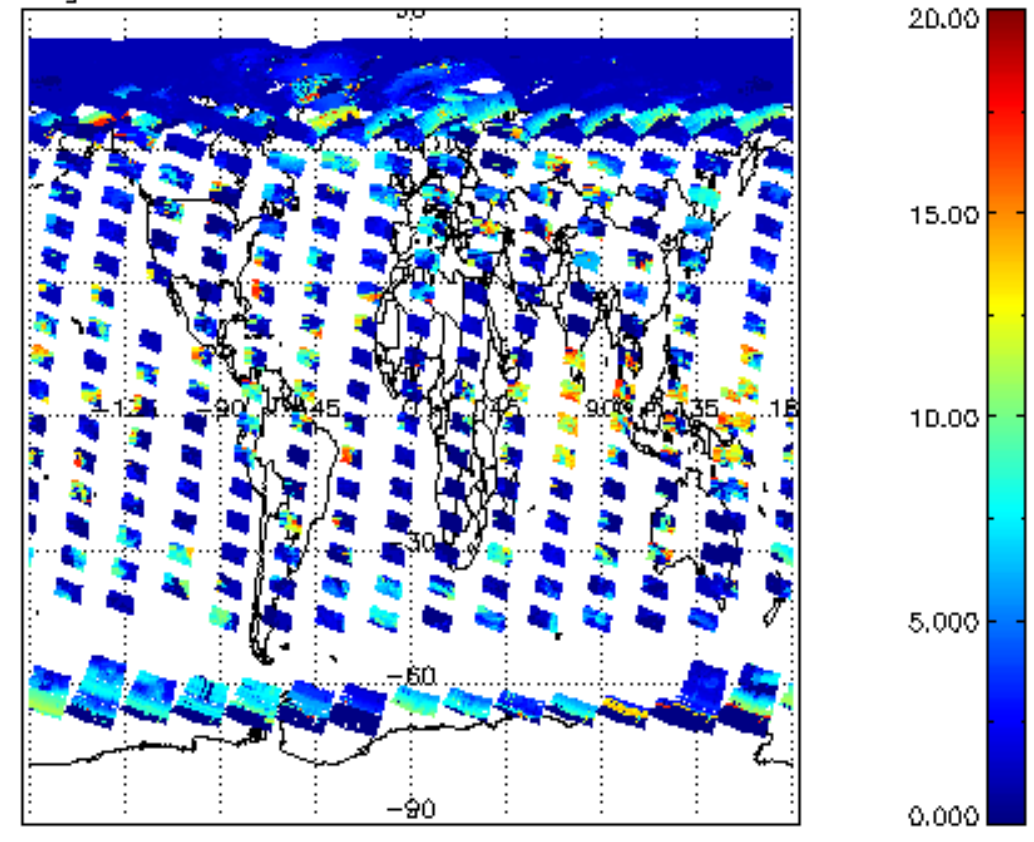
2.3 ADF monitoring

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

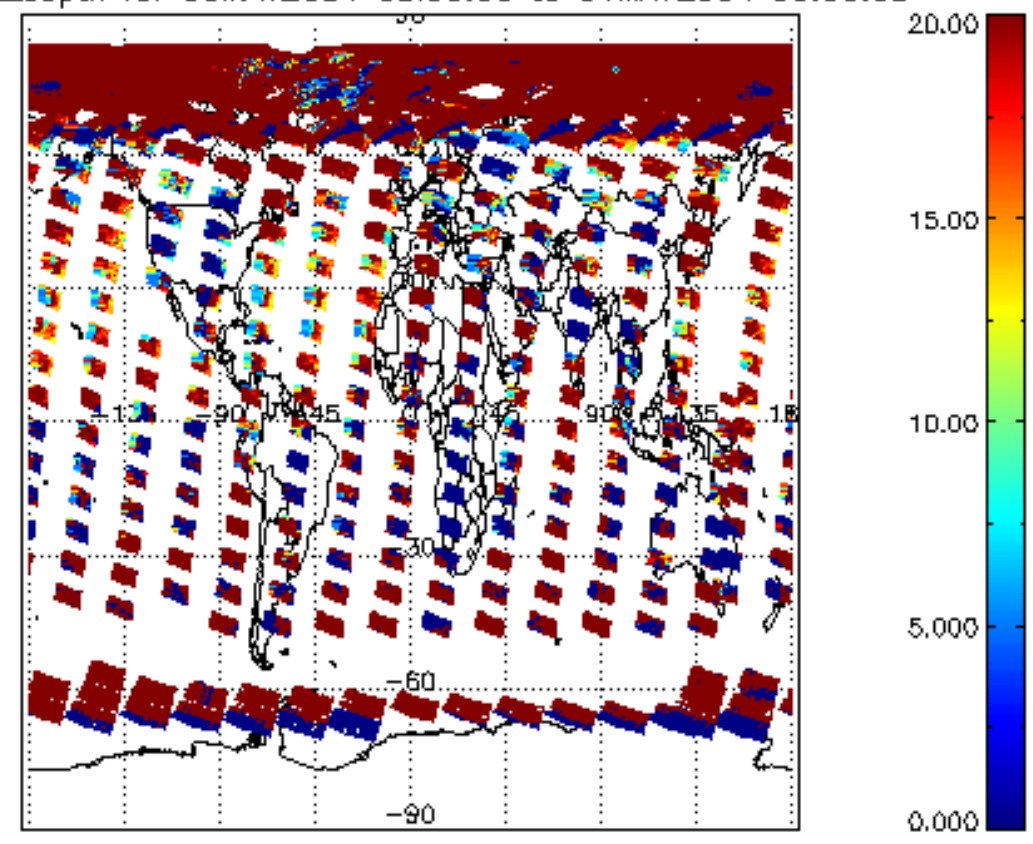
cl_frac for 03MAY2004 00:00:00 to 04MAY2004 00:00:00



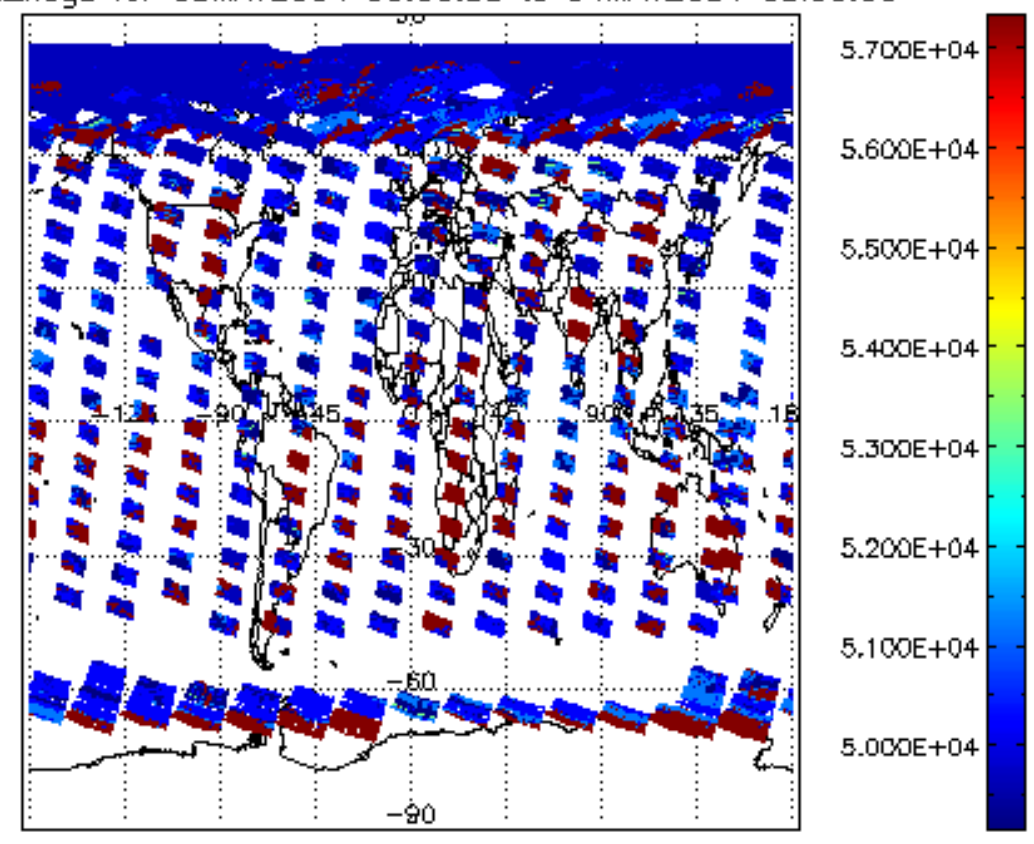
cl_top_height for 03MAY2004 00:00:00 to 04MAY2004 00:00:00

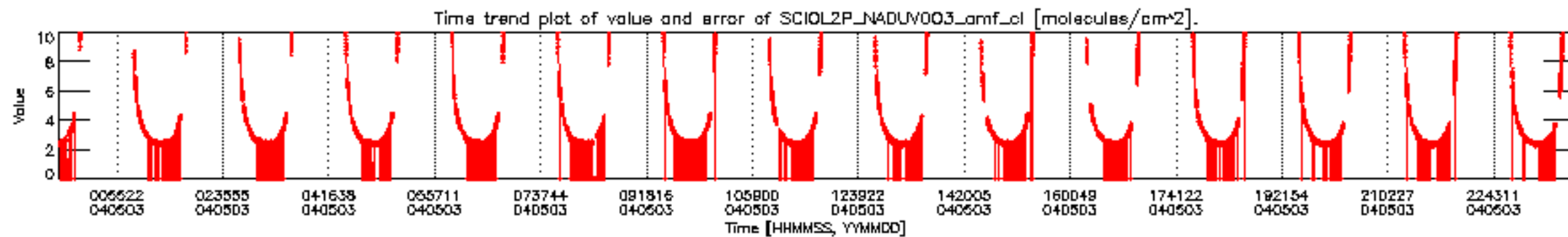
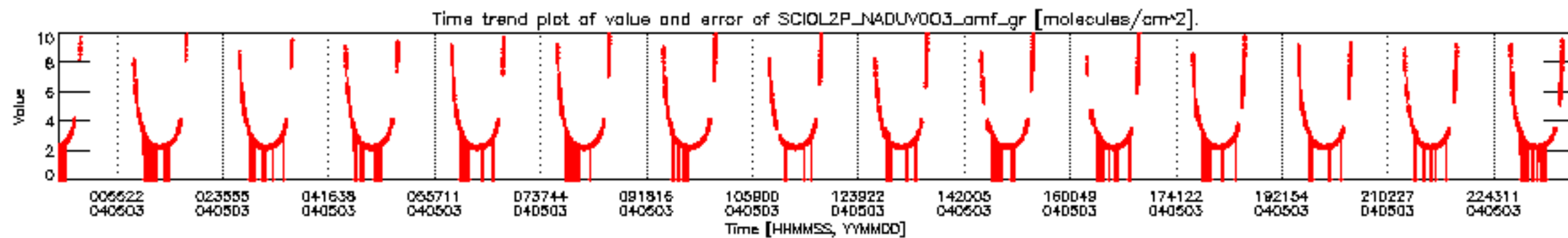
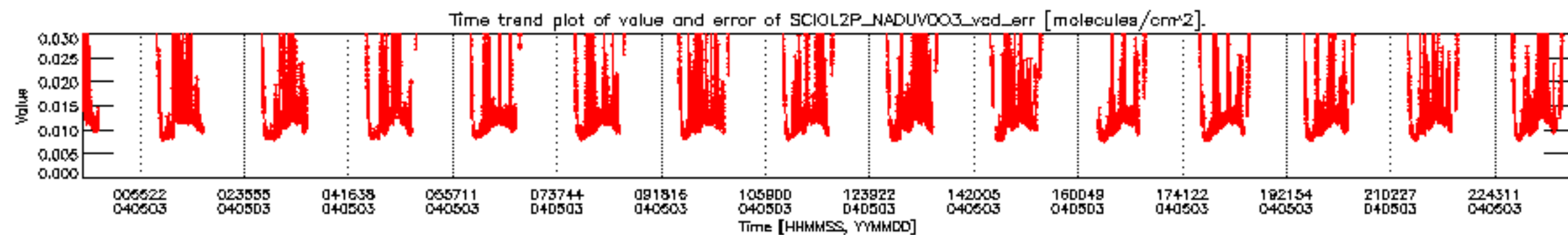
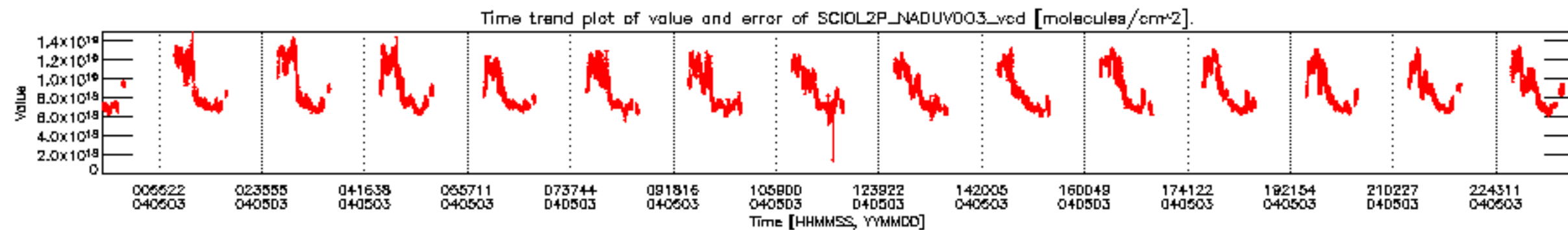


cl_opt_depth for 03MAY2004 00:00:00 to 04MAY2004 00:00:00

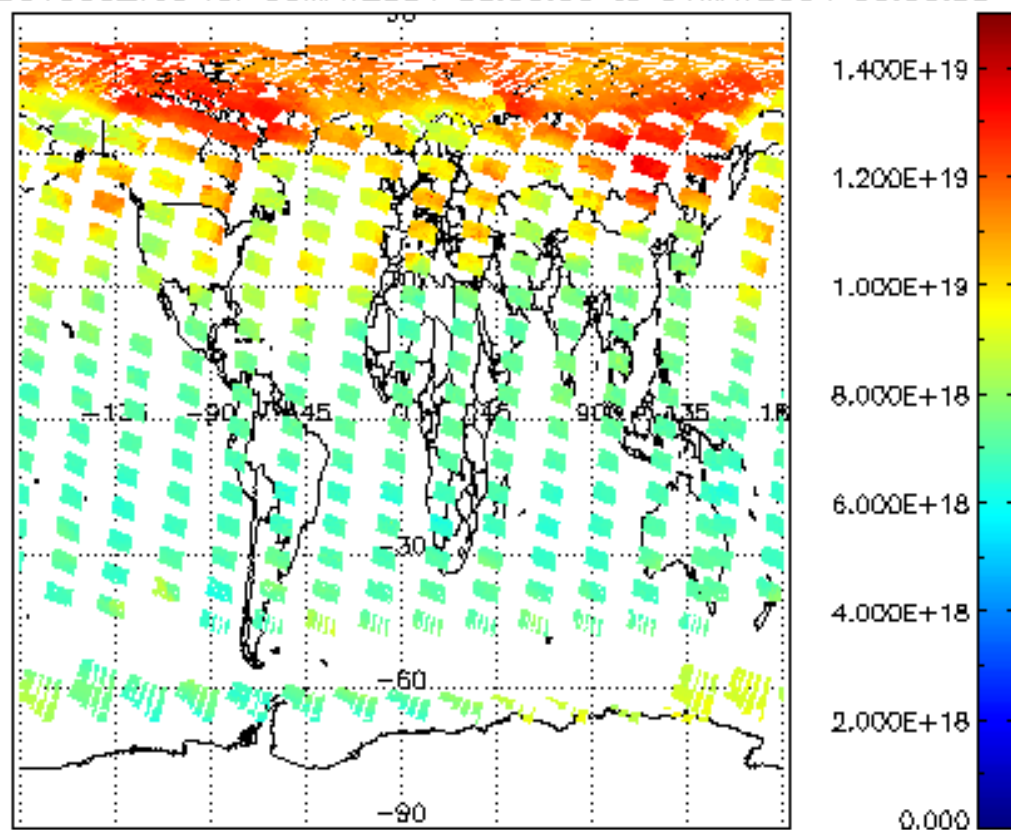


cloud_flags for 03MAY2004 00:00:00 to 04MAY2004 00:00:00

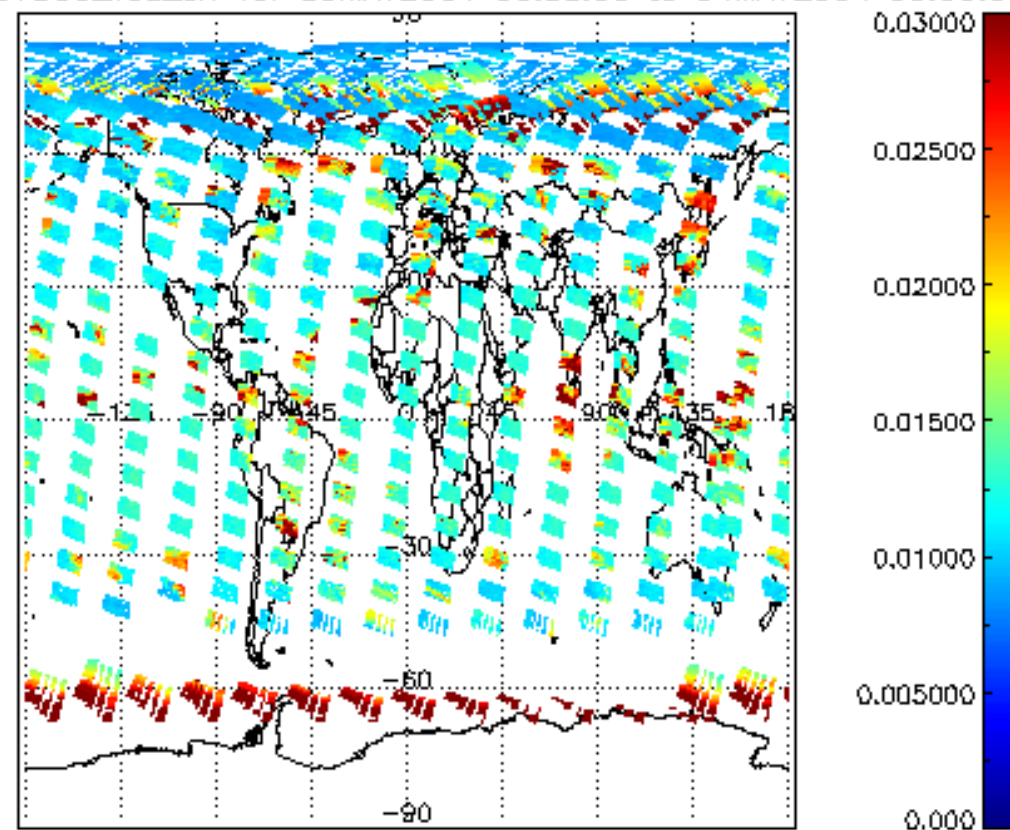




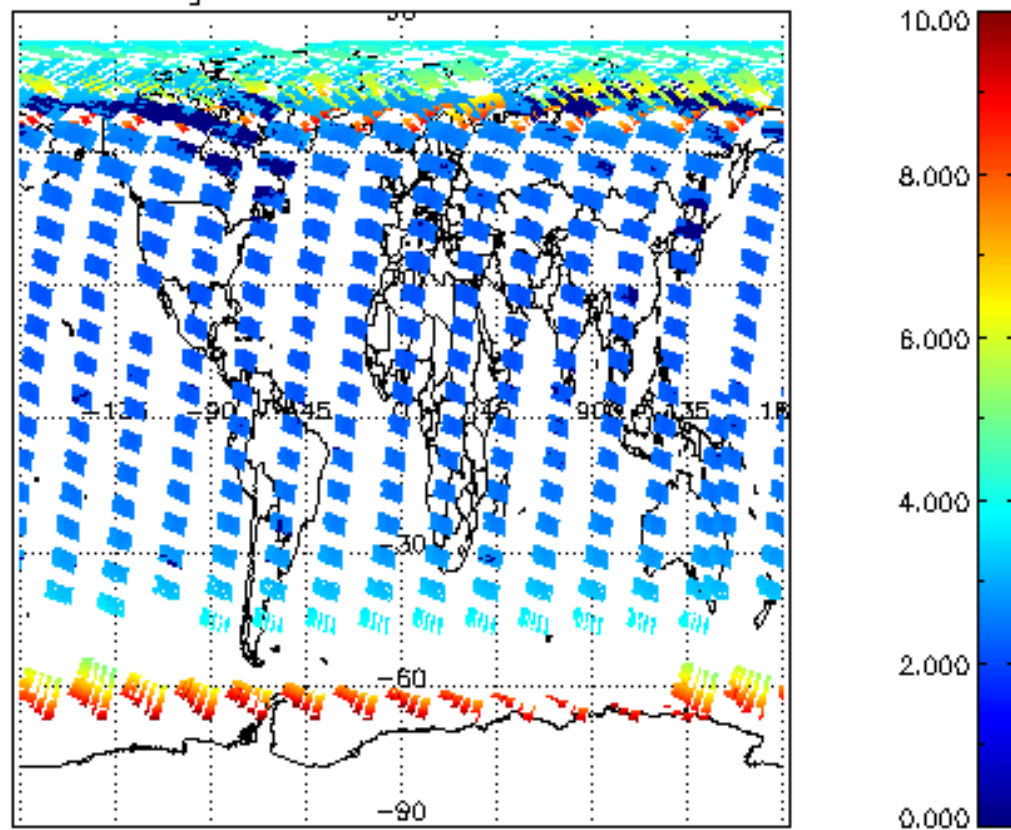
SCIOL2P_NADUV003_vcd for 03MAY2004 00:00:00 to 04MAY2004 00:00:00



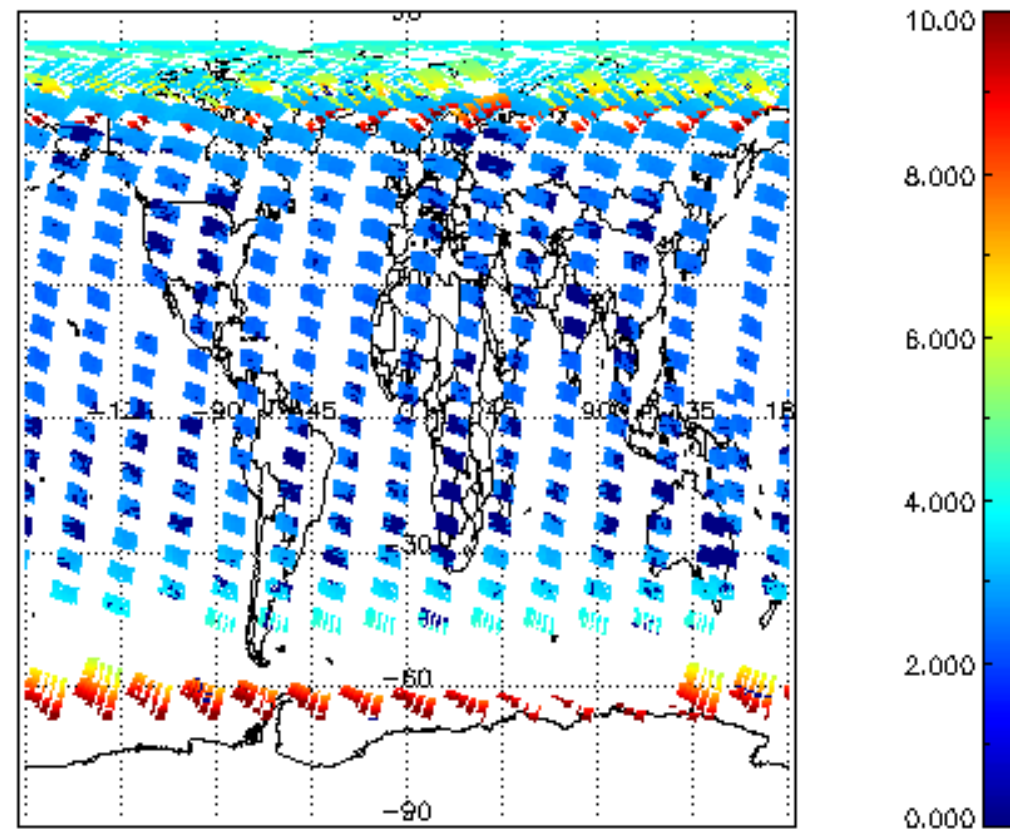
SCIOL2P_NADUV003_vcd_err for 03MAY2004 00:00:00 to 04MAY2004 00:00:00



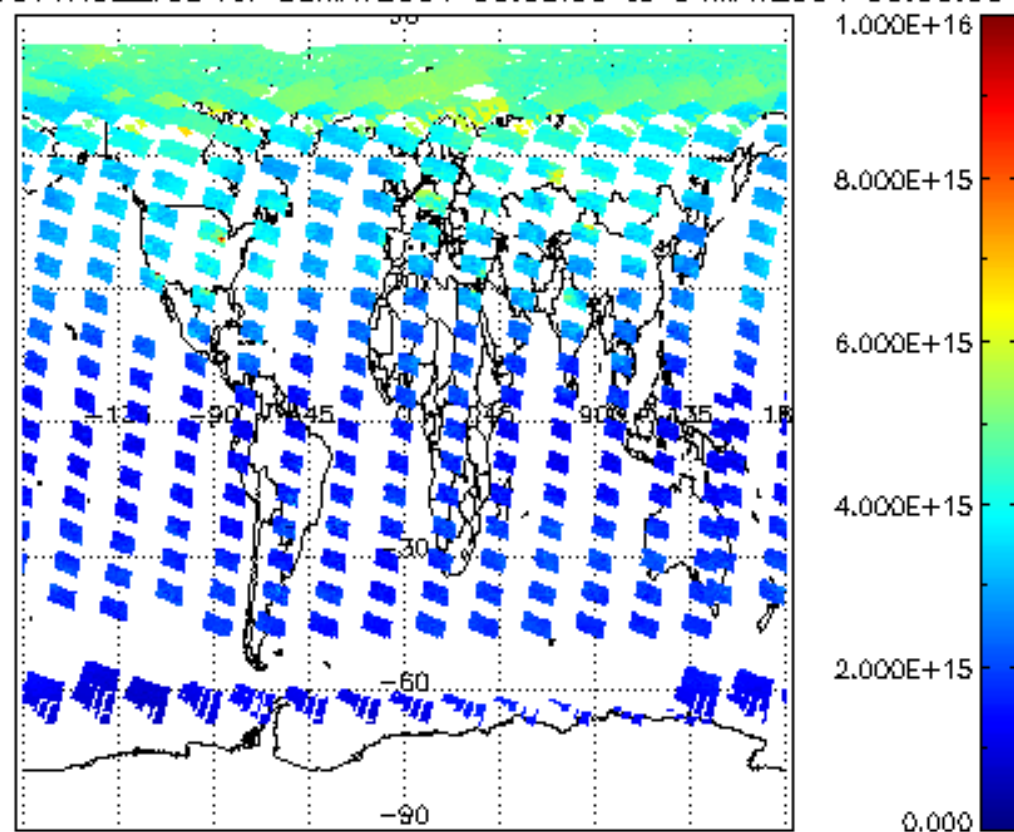
SCIOL2P_NADUV003_amf_gr for 03MAY2004 00:00:00 to 04MAY2004 00:00:00



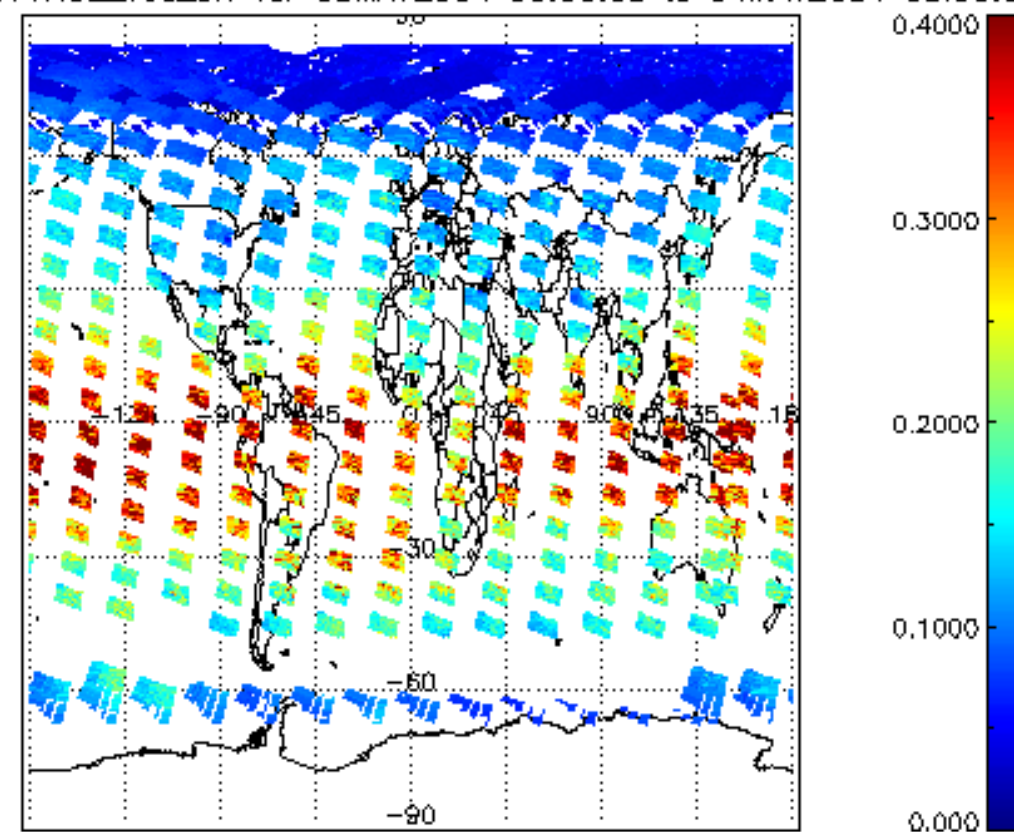
SCIOL2P_NADUV003_amf_cl for 03MAY2004 00:00:00 to 04MAY2004 00:00:00



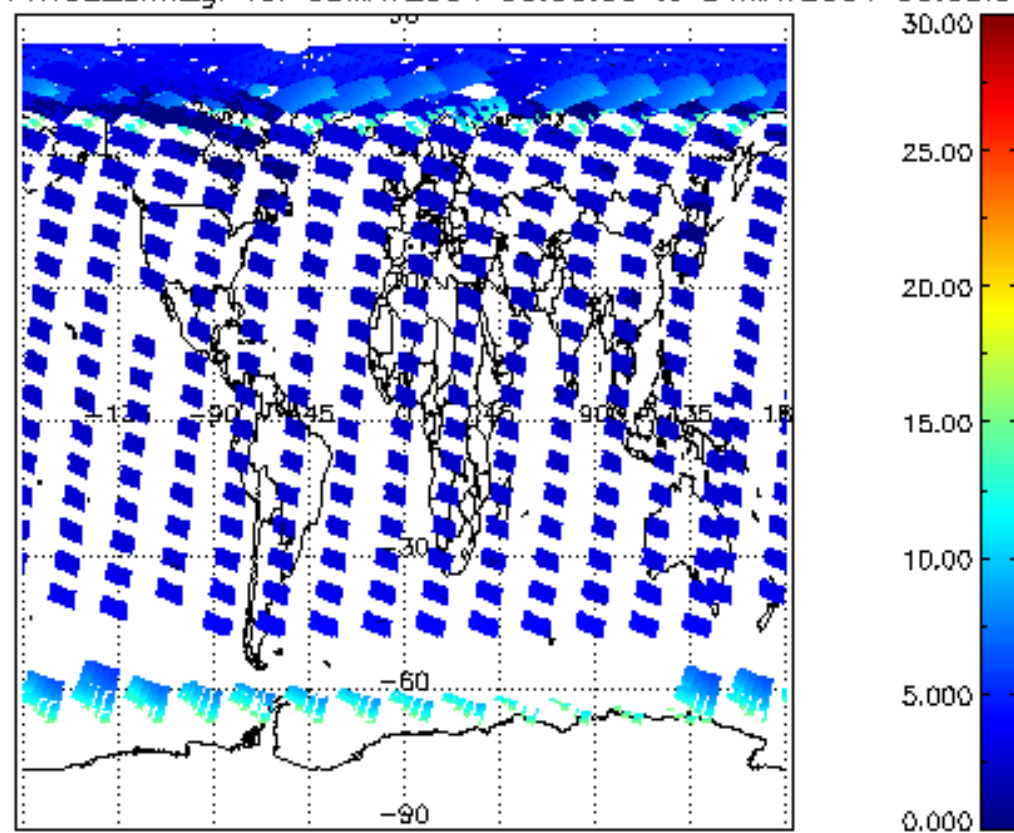
SCIOL2P_NADUV1NO2_vcd for 03MAY2004 00:00:00 to 04MAY2004 00:00:00



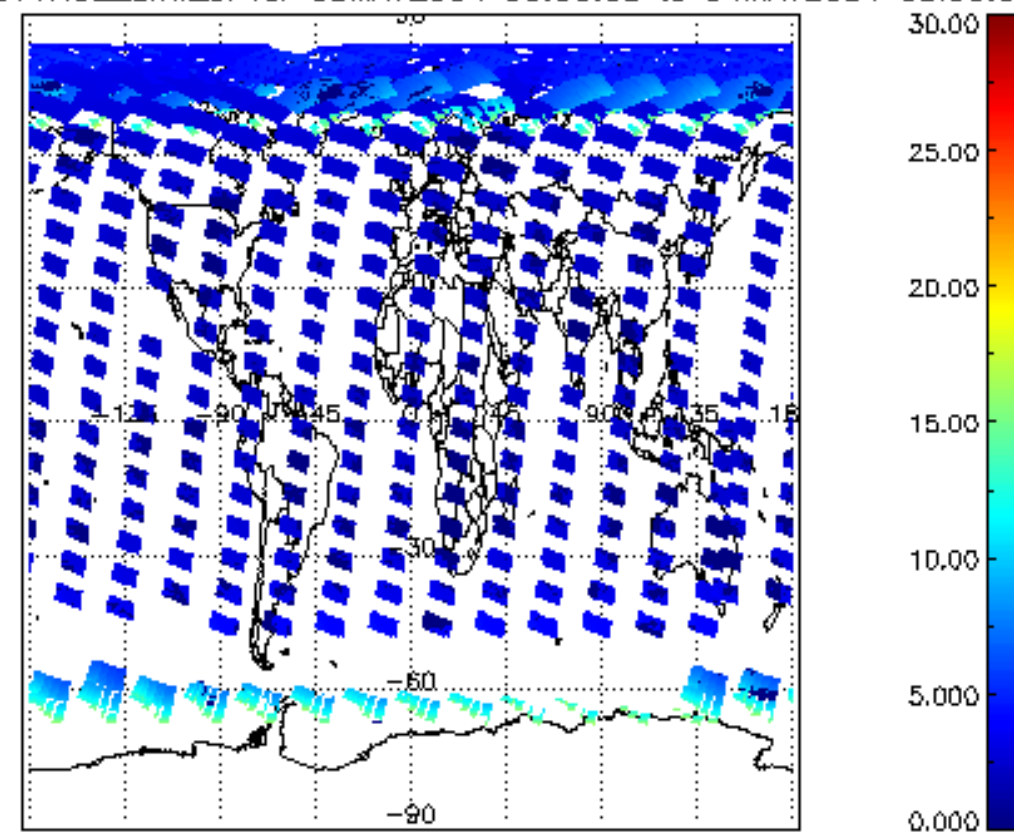
iCIOL2P_NADUV1NO2_vcd_err for 03MAY2004 00:00:00 to 04MAY2004 00:00:00



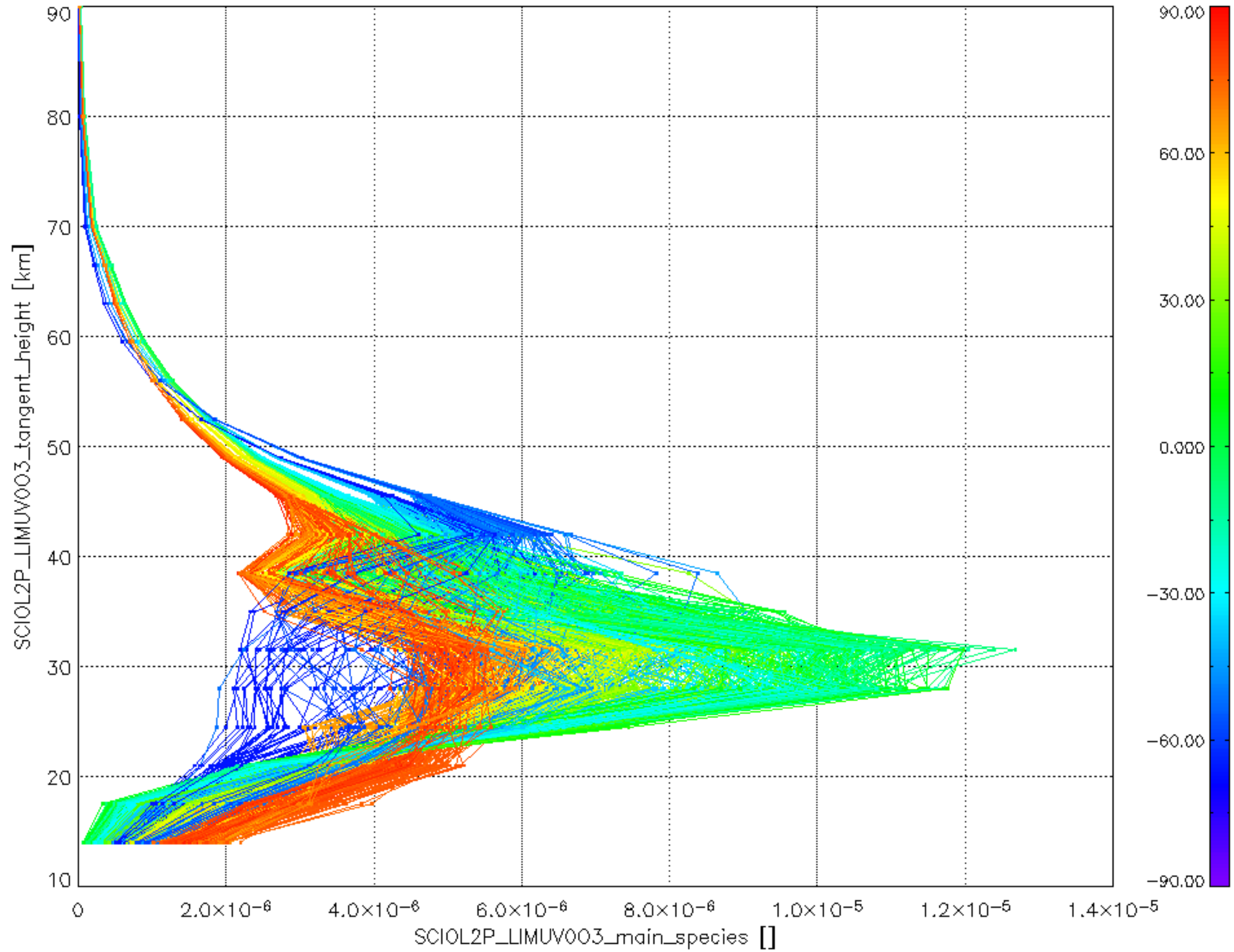
iCIOL2P_NADUV1NO2_amf_gr for 03MAY2004 00:00:00 to 04MAY2004 00:00:00



iCIOL2P_NADUV1NO2_amf_cl for 03MAY2004 00:00:00 to 04MAY2004 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).

