

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	04SEP2008 07:23:31
Data source version	SCIA-OL/3.01-R
Processing scope for products	27AUG2004 00:00:00 to 28AUG2004 00:00:00
Start time of first product within scope	26AUG2004 22:41:11
Stop time of last product within scope	28AUG2004 00:46:39
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__2PRDPA20040826_224111_000033252029_00445_13024_9626.N1	26AUG2004 22:41:11	26AUG2004 23:36:37	0	GOOD
1	SCI_OL__2PRDPA20040827_002148_000033812029_00446_13025_9388.N1	27AUG2004 00:21:48	27AUG2004 01:18:09	0	GOOD
2	SCI_OL__2PRDPA20040827_020224_000033252029_00447_13026_9573.N1	27AUG2004 02:02:24	27AUG2004 02:57:50	0	GOOD
3	SCI_OL__2PRDPA20040827_034300_000033812029_00448_13027_9240.N1	27AUG2004 03:43:00	27AUG2004 04:39:22	0	GOOD
4	SCI_OL__2PRDPA20040827_052337_000033252029_00449_13028_9420.N1	27AUG2004 05:23:37	27AUG2004 06:19:02	0	GOOD
5	SCI_OL__2PRDPA20040827_084450_000033252029_00451_13030_9395.N1	27AUG2004 08:44:50	27AUG2004 09:40:15	0	GOOD
6	SCI_OL__2PRDPA20040827_102526_000033812029_00452_13031_9481.N1	27AUG2004 10:25:26	27AUG2004 11:21:47	0	GOOD
7	SCI_OL__2PRDPA20040827_120602_000033252029_00453_13032_9248.N1	27AUG2004 12:06:02	27AUG2004 13:01:28	0	GOOD
8	SCI_OL__2PRDPA20040827_134639_000033812029_00454_13033_9341.N1	27AUG2004 13:46:39	27AUG2004 14:43:00	0	GOOD
9	SCI_OL__2PRDPA20040827_152715_000033252029_00455_13034_9320.N1	27AUG2004 15:27:15	27AUG2004 16:22:41	0	GOOD
10	SCI_OL__2PRDPA20040827_170746_000033522029_00456_13035_9619.N1	27AUG2004 17:07:46	27AUG2004 18:03:39	0	GOOD
11	SCI_OL__2PRDPA20040827_184847_000033252029_00457_13036_9532.N1	27AUG2004 18:48:47	27AUG2004 19:44:13	0	GOOD
12	SCI_OL__2PRDPA20040827_202905_000033812029_00458_13037_9334.N1	27AUG2004 20:29:05	27AUG2004 21:25:26	0	GOOD
13	SCI_OL__2PRDPA20040827_220941_000033252029_00459_13038_9424.N1	27AUG2004 22:09:41	27AUG2004 23:05:06	0	GOOD
14	SCI_OL__2PRDPA20040827_235017_000033812029_00460_13039_9608.N1	27AUG2004 23:50:17	28AUG2004 00:46:39	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: 136240

Total number of cloud data DSRs with good quality flag (=0): 136240 (100.0 %)

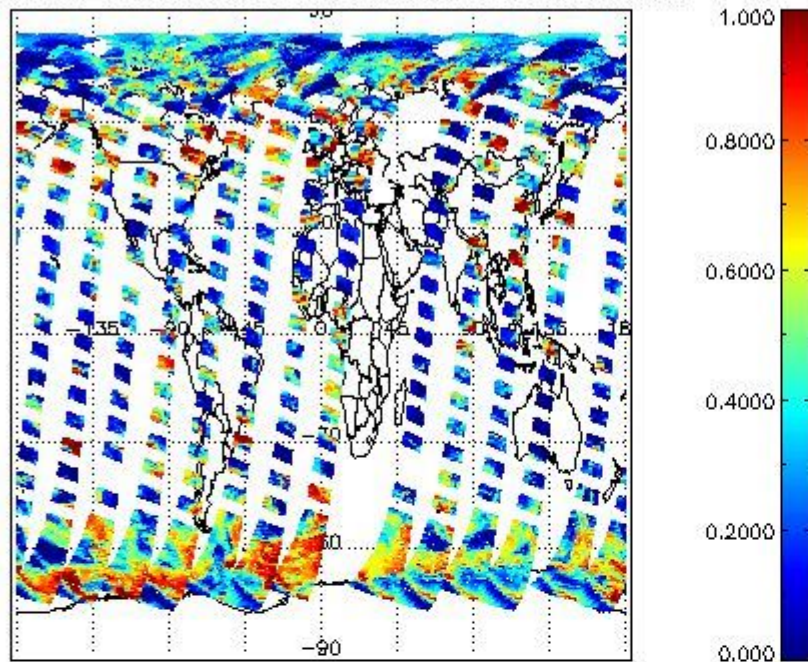
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	136240	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	136240	0.16985	0.12500	0.12500	0.25000	0.059955	s
CL_FRAC	136240	0.38057	0.34832	0.0000	1.0000	0.28238	-
CL_FRAC_ERR	136240	0.0000	0.0000	0.0000	0.0000	0.0000	rel. fraction
PMD_READ	136240	5.4351	4.0000	4.0000	8.0000	1.9186	
PMD_READ_CL[0]	136240	0.22662	0.0000	0.0000	8.0000	1.1090	-
PMD_READ_CL[1]	136240	0.76927	0.0000	0.0000	8.0000	1.8334	-
CL_TOP_HEIGHT	117902	3.8665	2.2825	0.0000	17.000	3.9282	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	117902	60.953	84.879	0.0000	101.00	42.017	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	136240	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	136240	11001001	11000100	11000000	11100000	3121.4	flags
AERO_ABSO_IND	136240	0.73476	0.54461	-4.2076	10.873	1.0572	
AERO_IND_DIAG	136240	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	136240	01010110	00000000	00000000	11000000	24462.	flags

Time and geolocation plots:

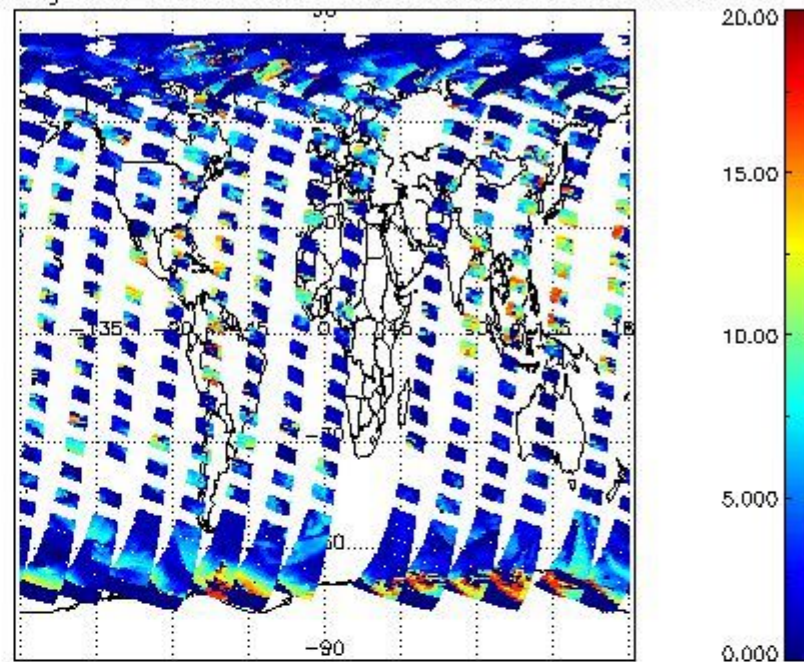
Plots are available for the following parameters:

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

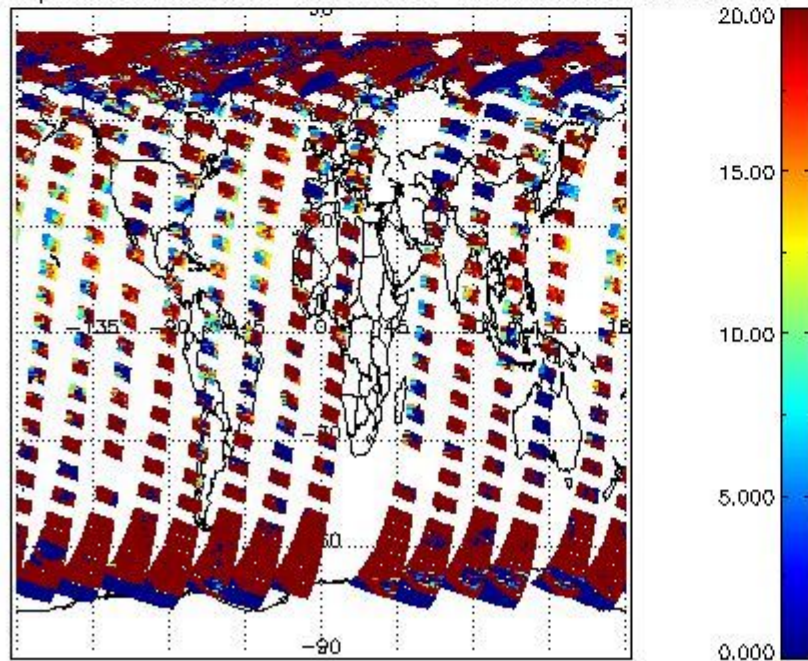
cL_frac for 27AUG2004 00:00:00 to 28AUG2004 00:00:00



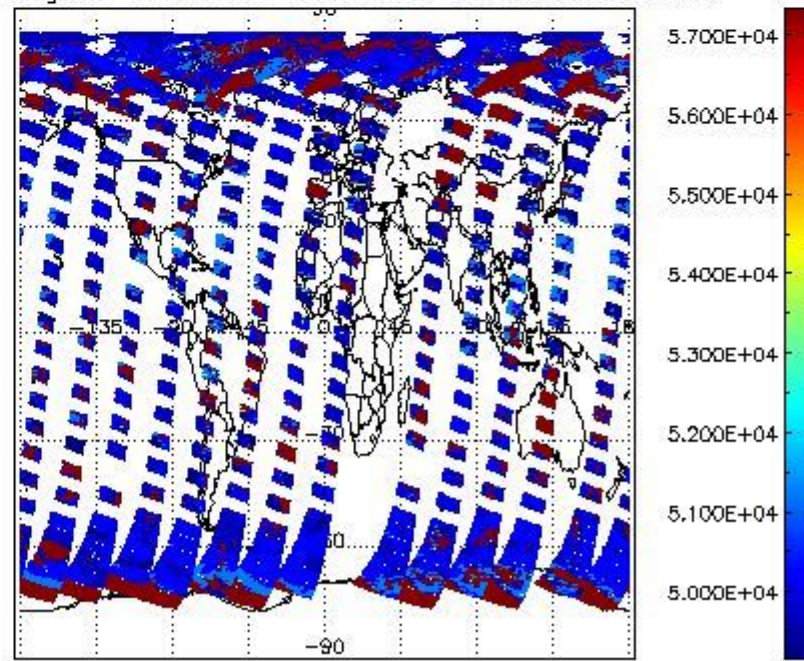
cL_top_height for 27AUG2004 00:00:00 to 28AUG2004 00:00:00



cL_opt_depth for 27AUG2004 00:00:00 to 28AUG2004 00:00:00



cloud_flags for 27AUG2004 00:00:00 to 28AUG2004 00:00:00



2.2.2 Nadir

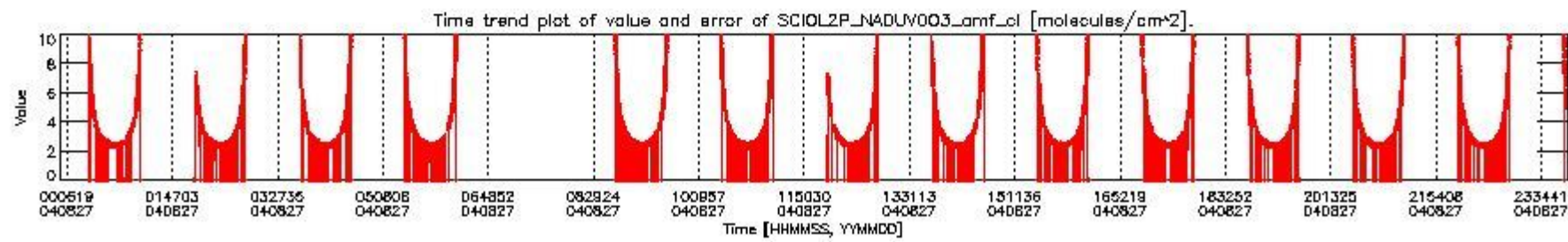
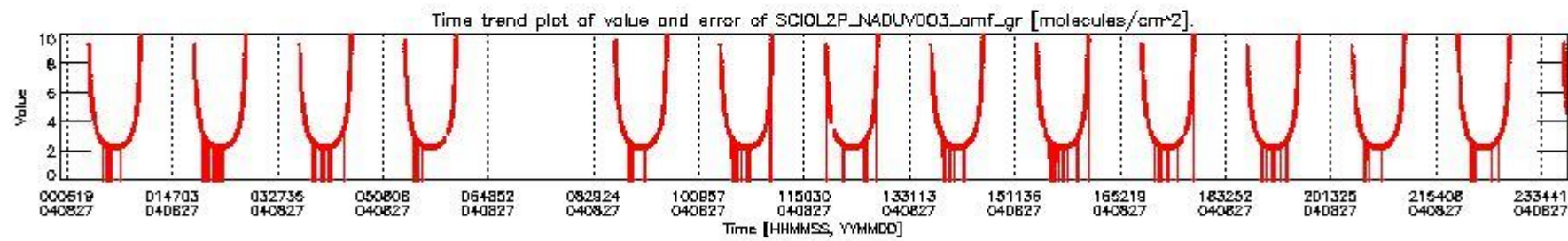
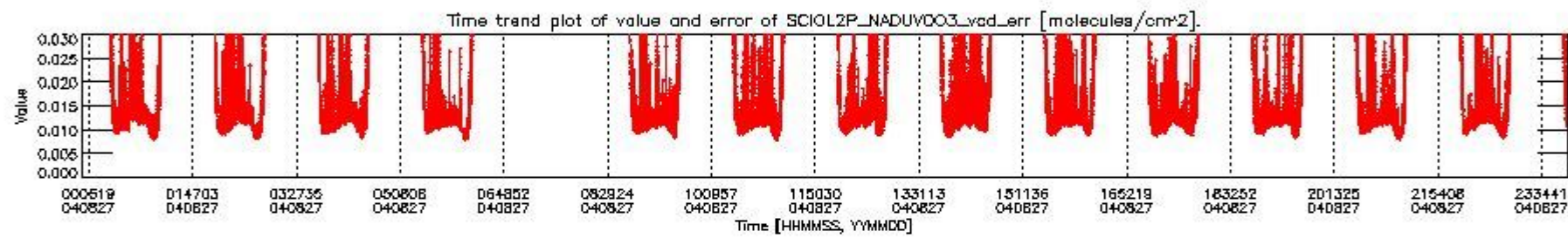
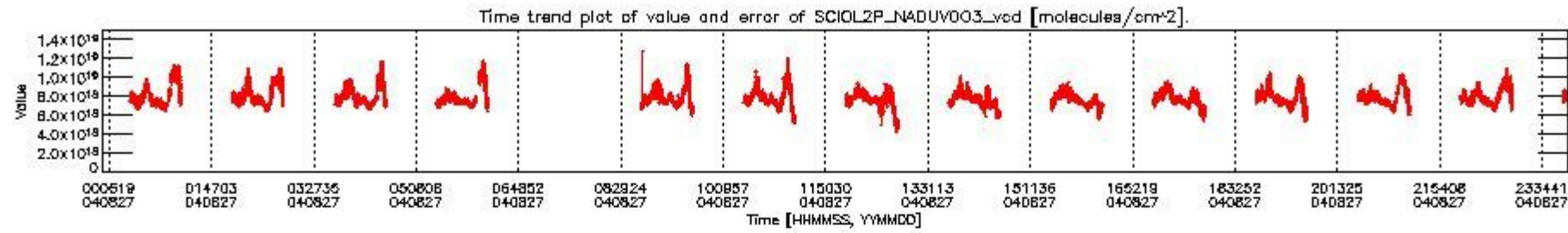
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

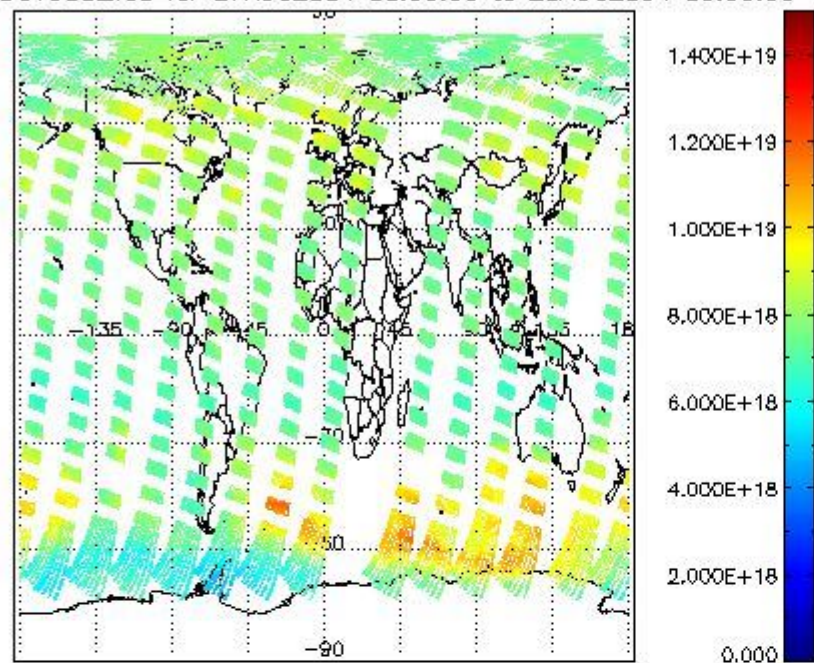
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

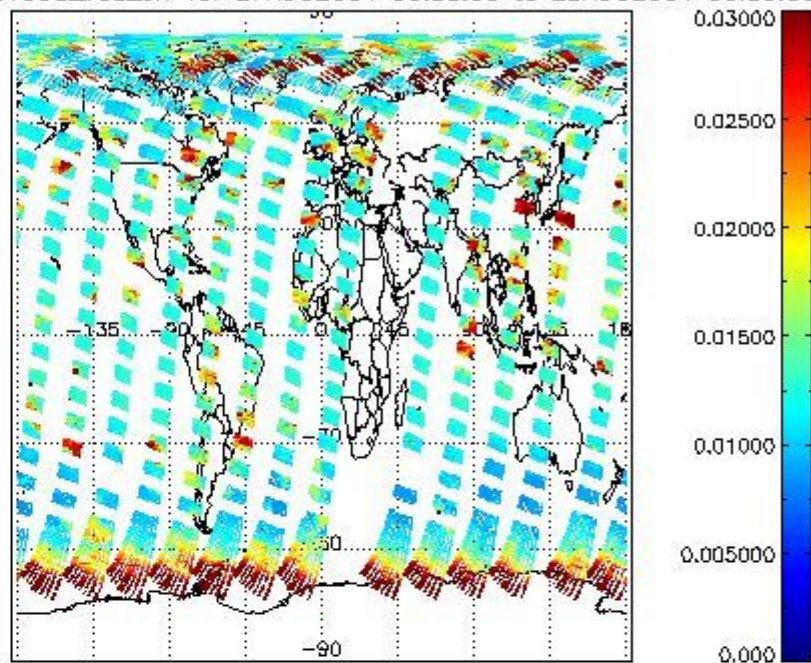
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



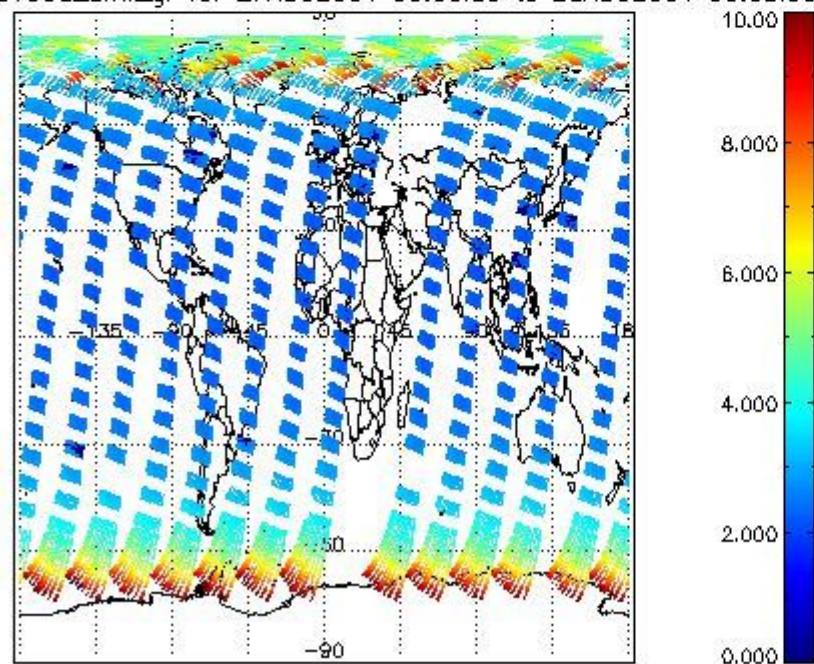
SCIOL2P_NADUV003_vcd for 27AUG2004 00:00:00 to 28AUG2004 00:00:00



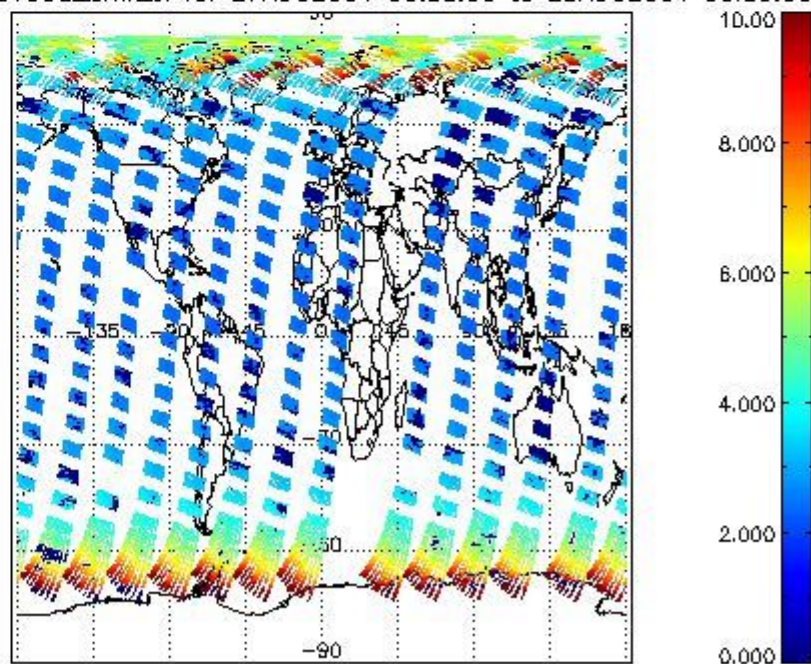
SCIOL2P_NADUV003_vcd_err for 27AUG2004 00:00:00 to 28AUG2004 00:00:00

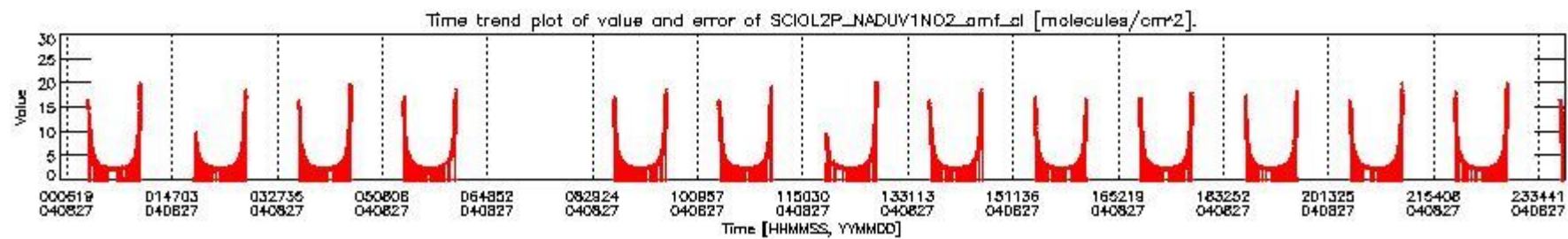
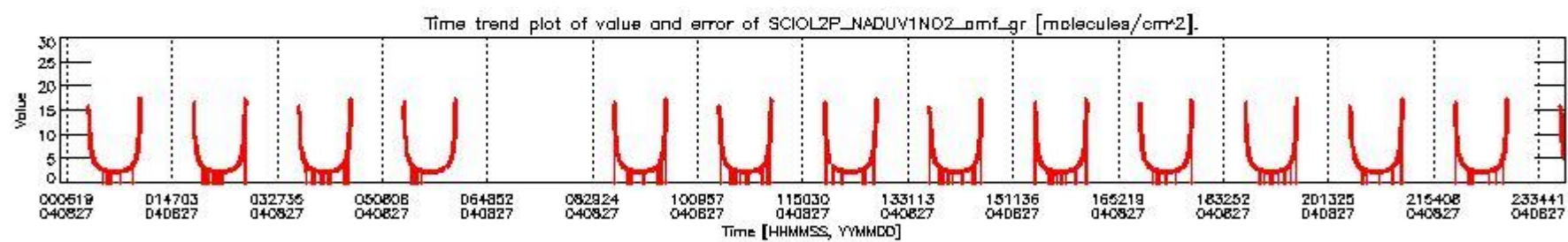
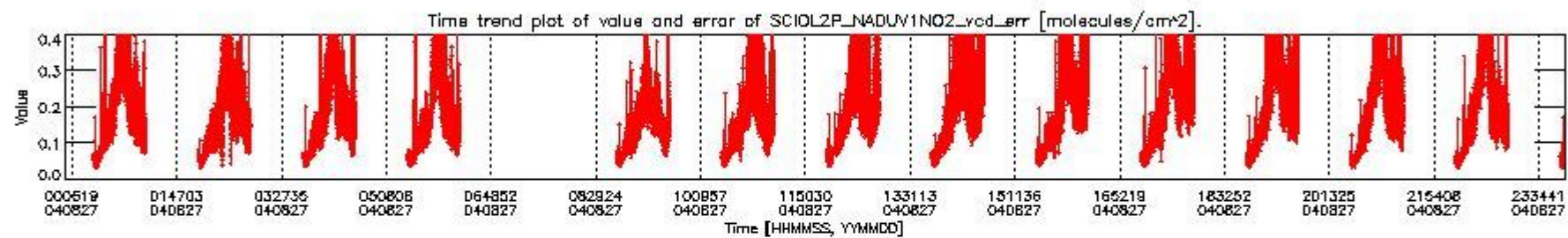
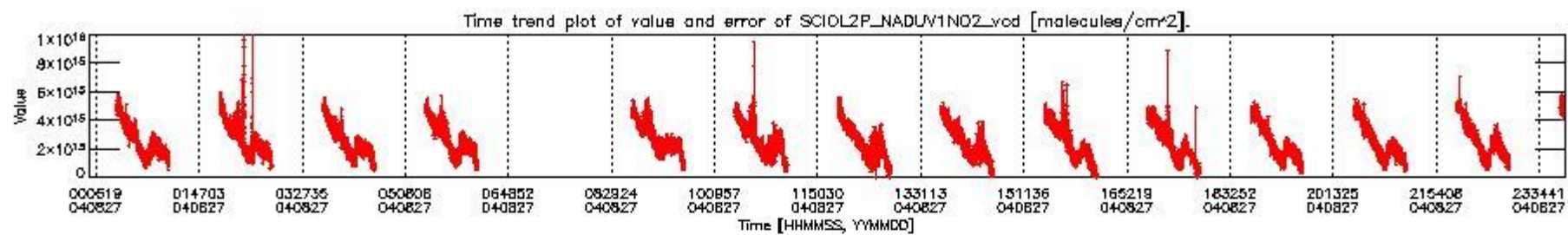


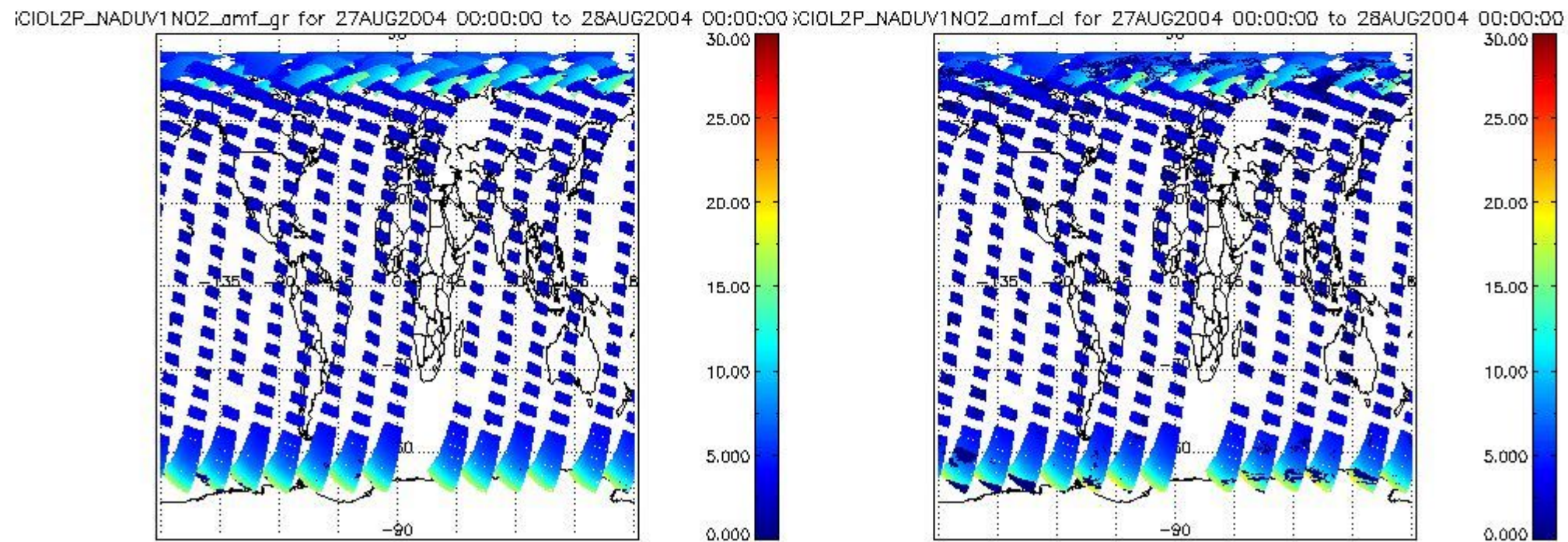
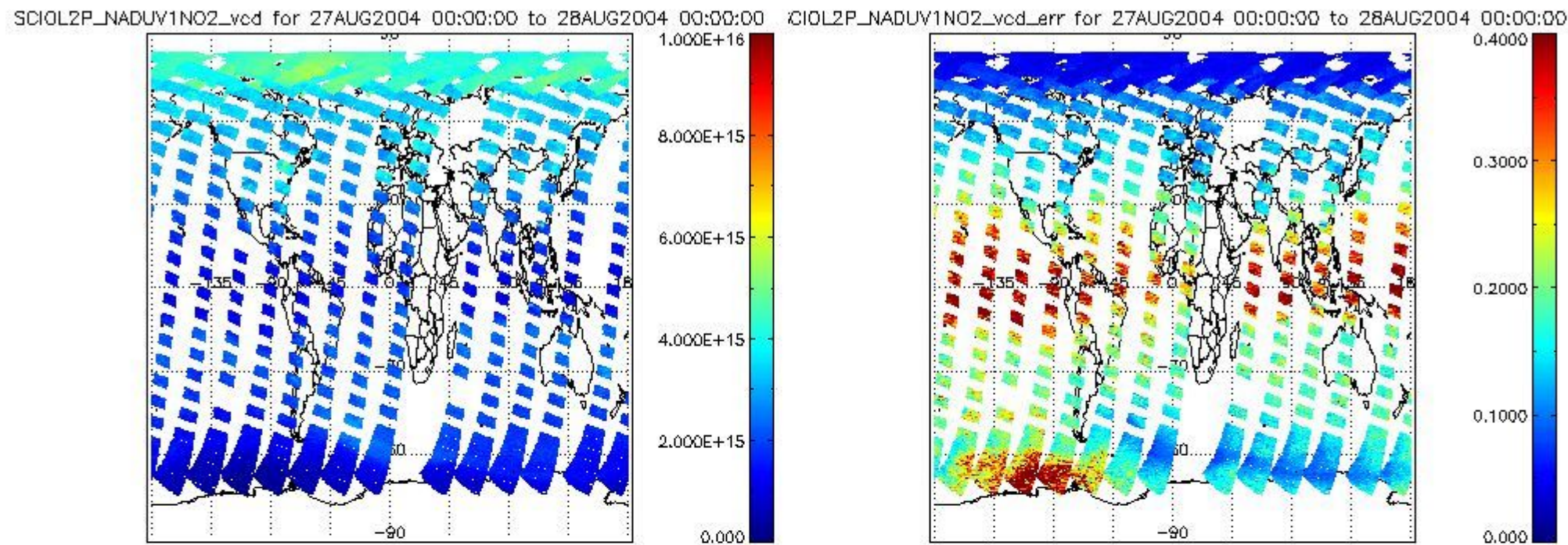
SCIOL2P_NADUV003_amf_gr for 27AUG2004 00:00:00 to 28AUG2004 00:00:00



SCIOL2P_NADUV003_amf_sl for 27AUG2004 00:00:00 to 28AUG2004 00:00:00







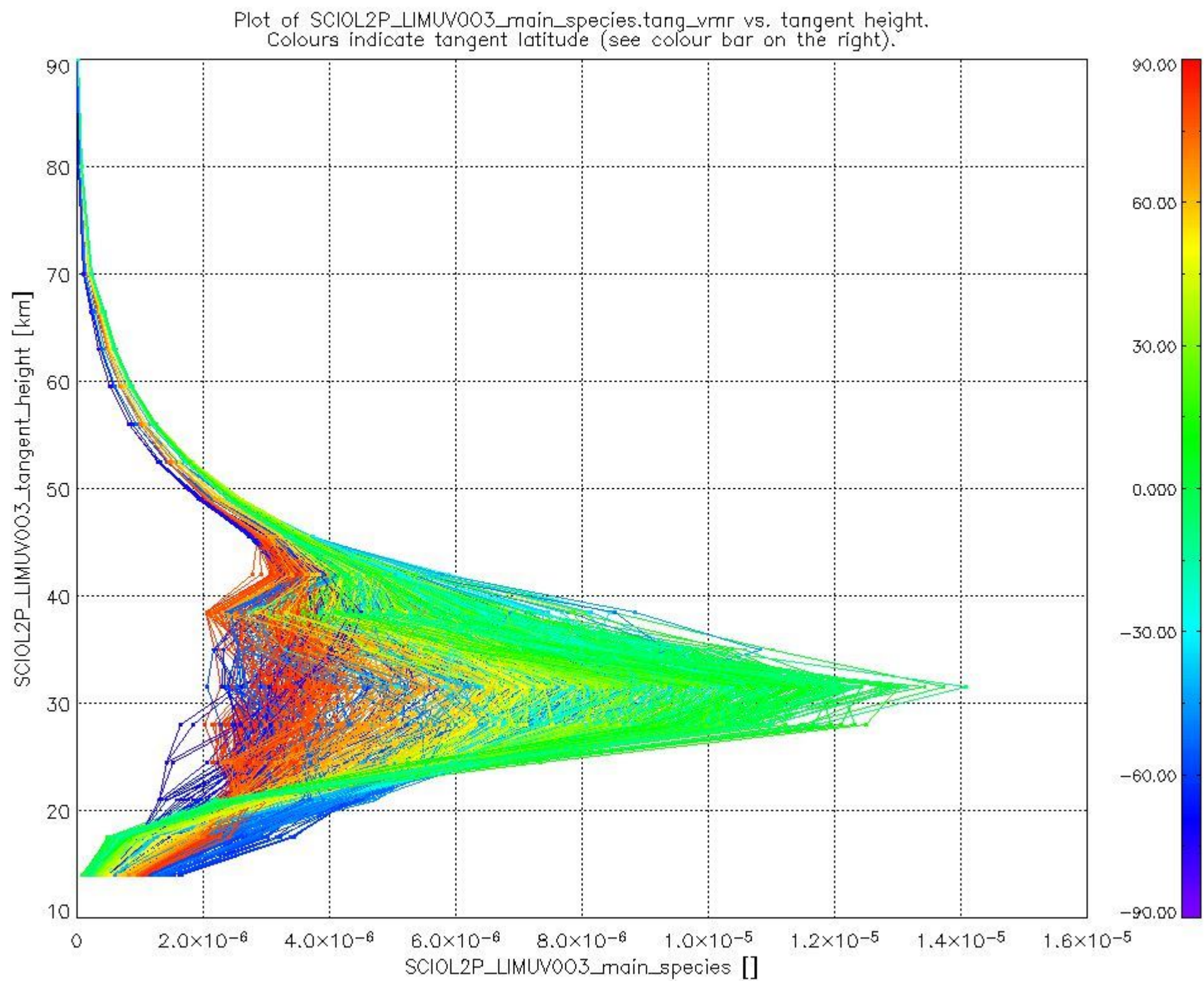
2.2.3 Limb

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

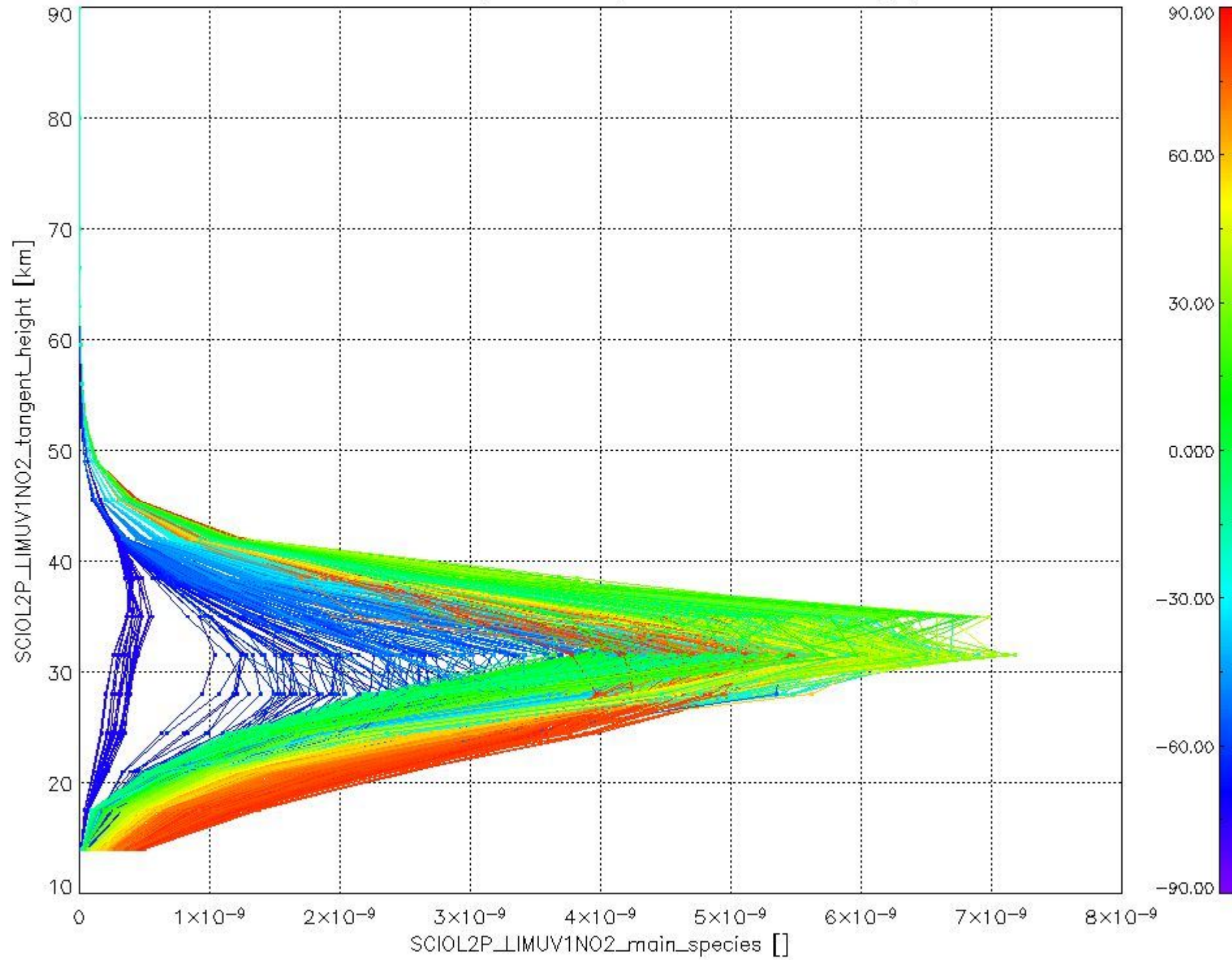
The following data items are currently included into this section:

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.



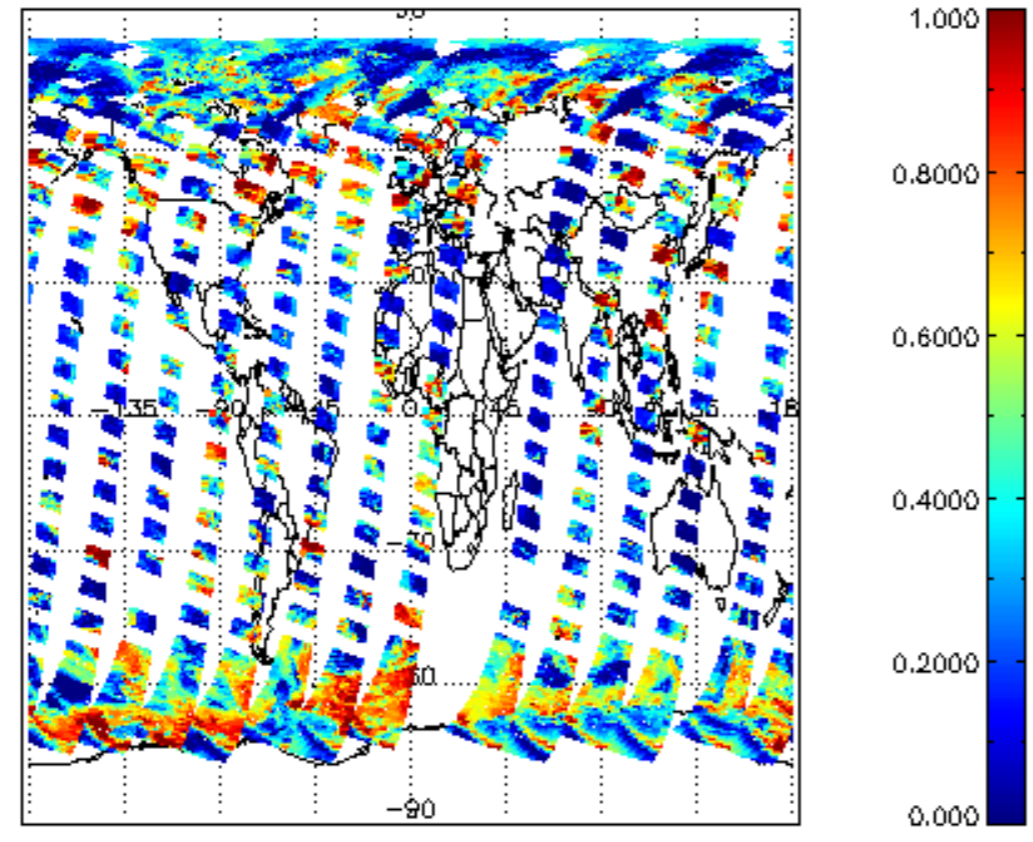
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



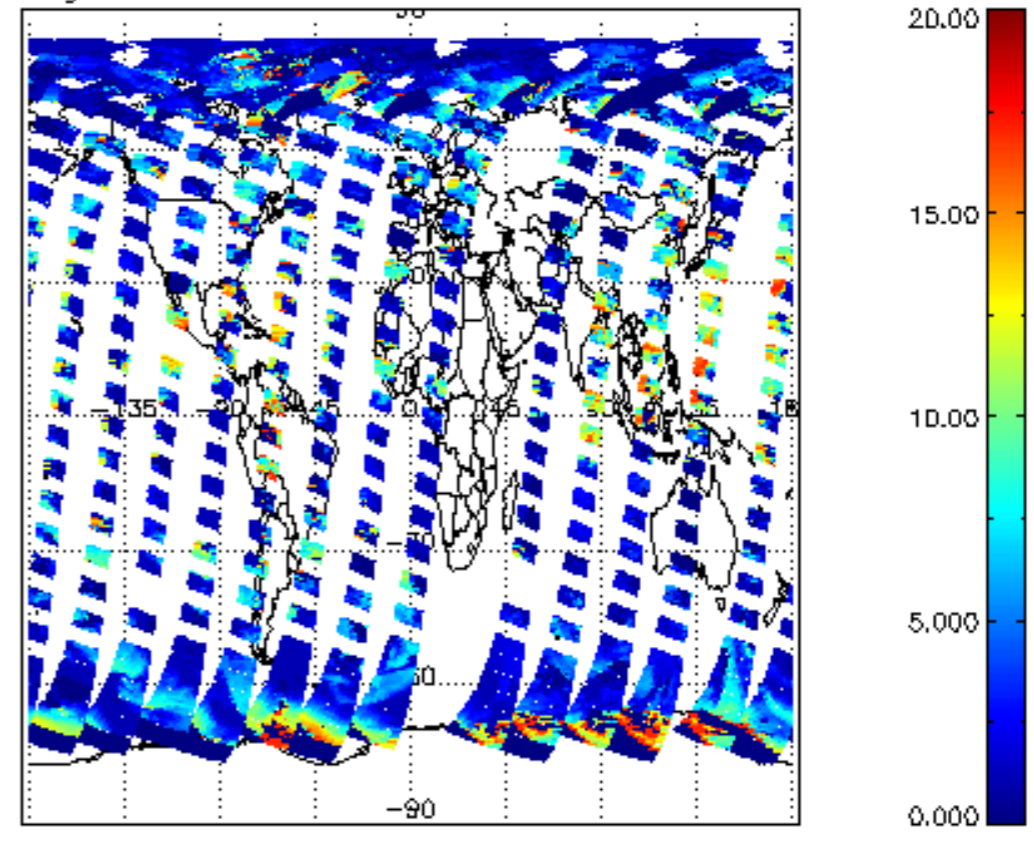
2.3 ADF monitoring

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

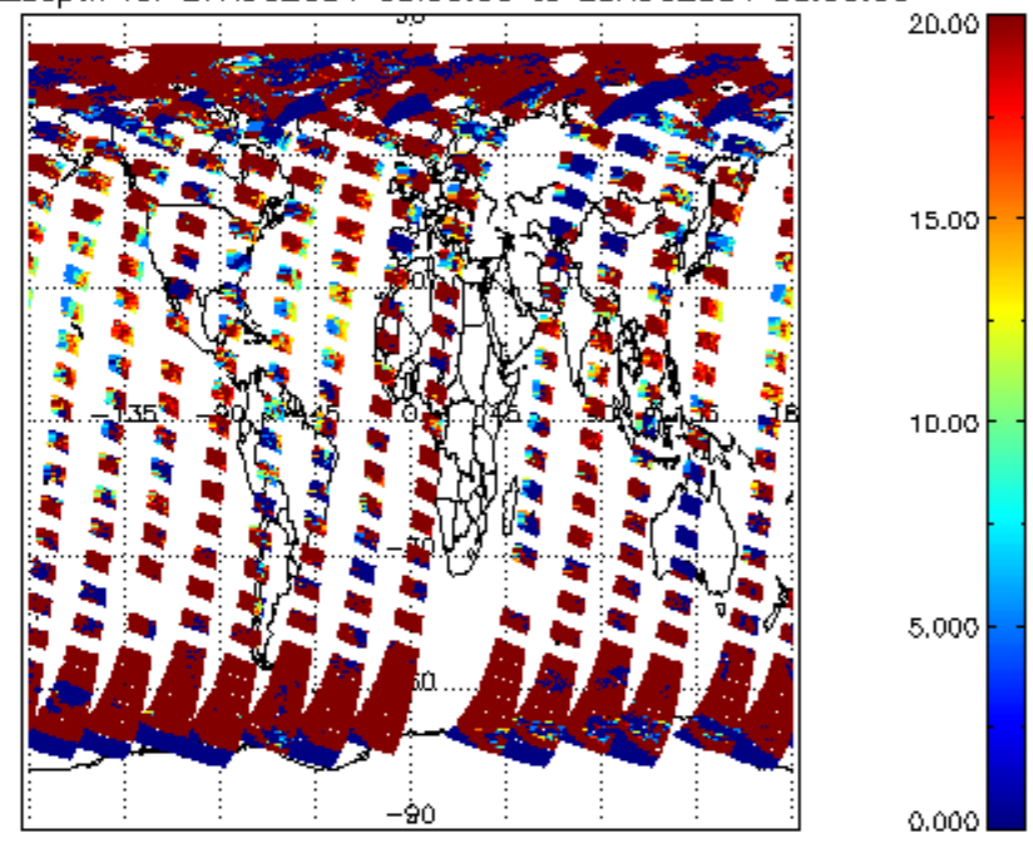
cI_frac for 27AUG2004 00:00:00 to 28AUG2004 00:00:00



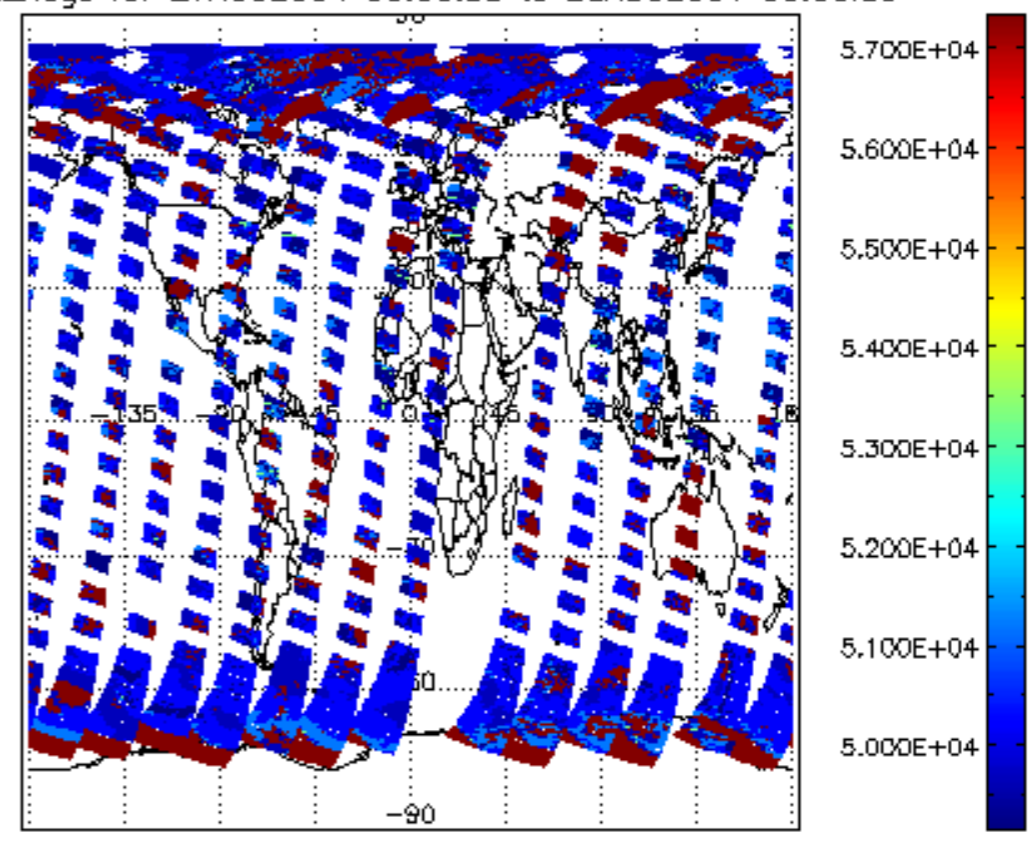
cI_top_height for 27AUG2004 00:00:00 to 28AUG2004 00:00:00

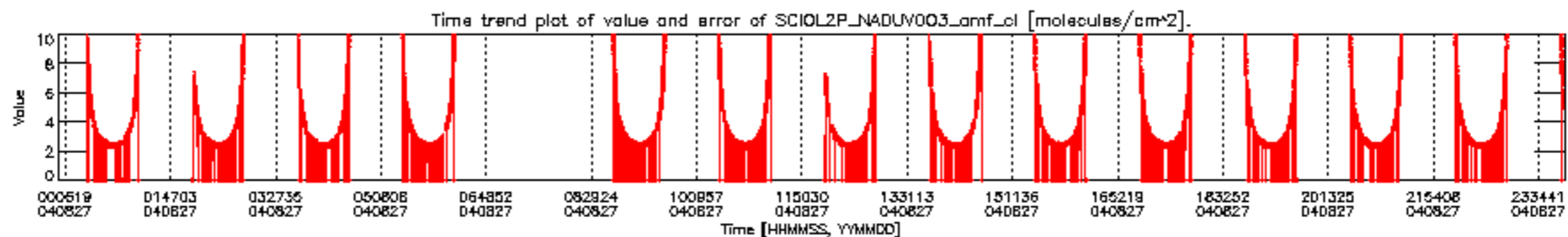
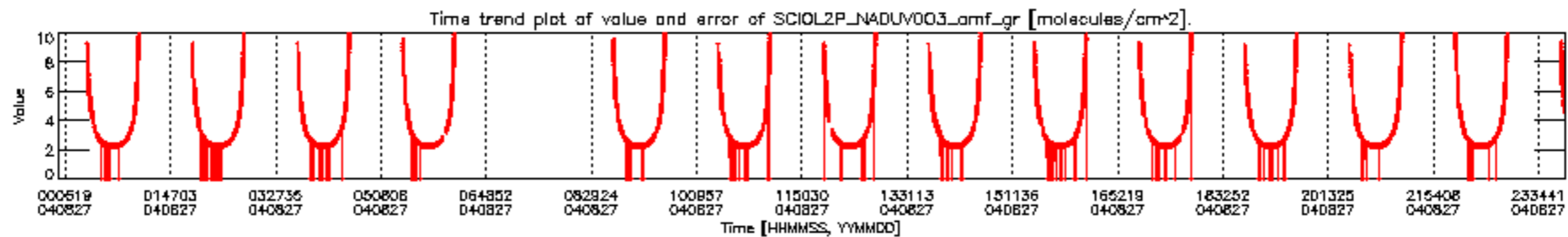
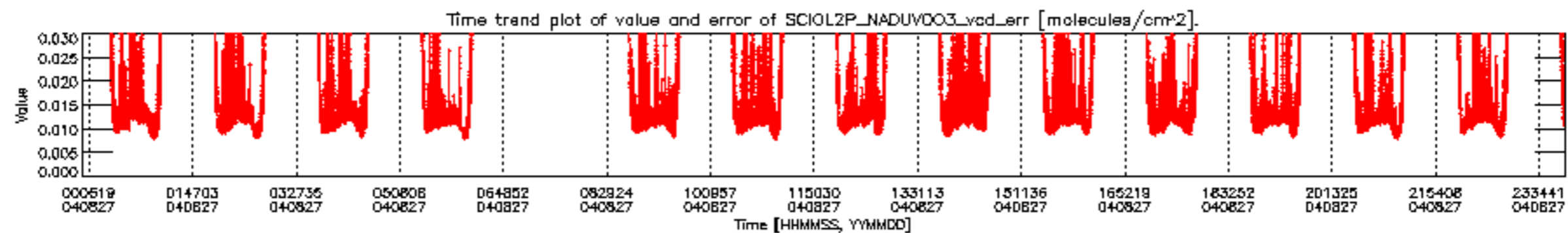
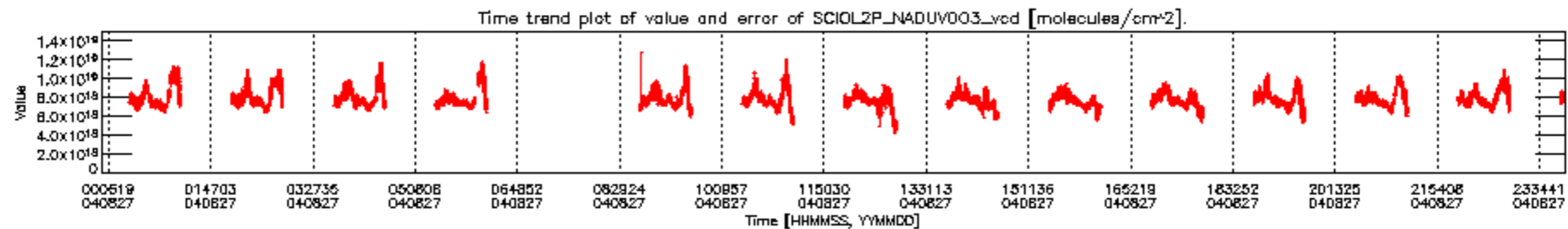


cI_opt_depth for 27AUG2004 00:00:00 to 28AUG2004 00:00:00

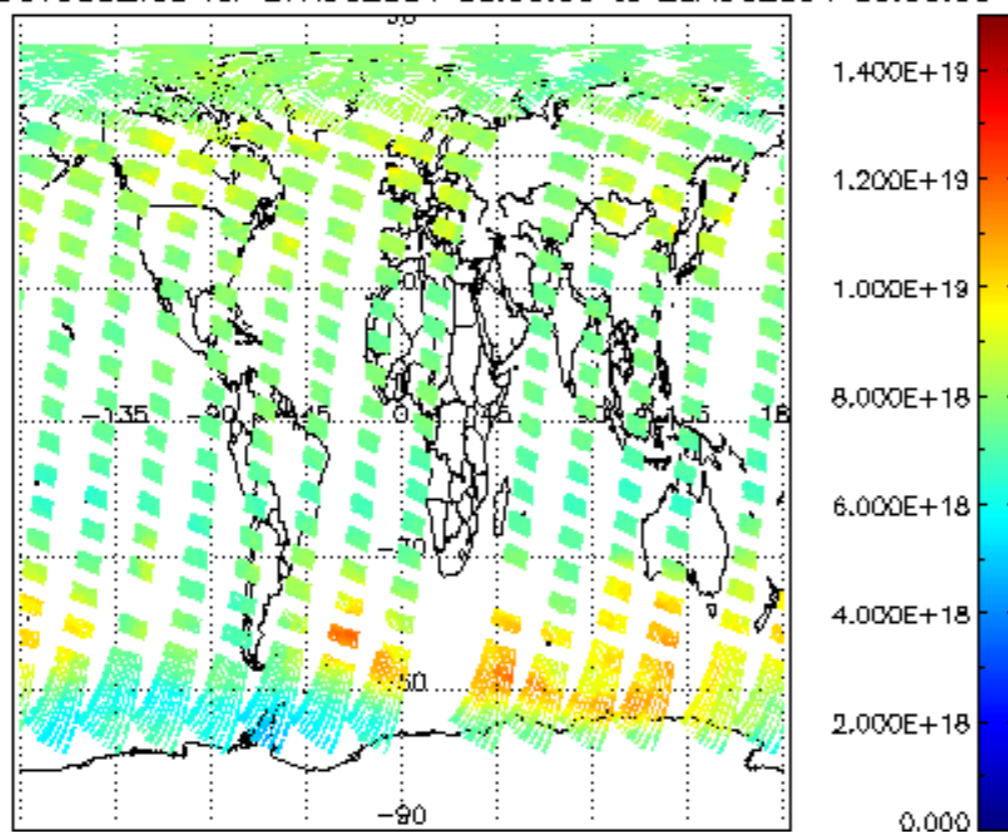


cloud_flags for 27AUG2004 00:00:00 to 28AUG2004 00:00:00

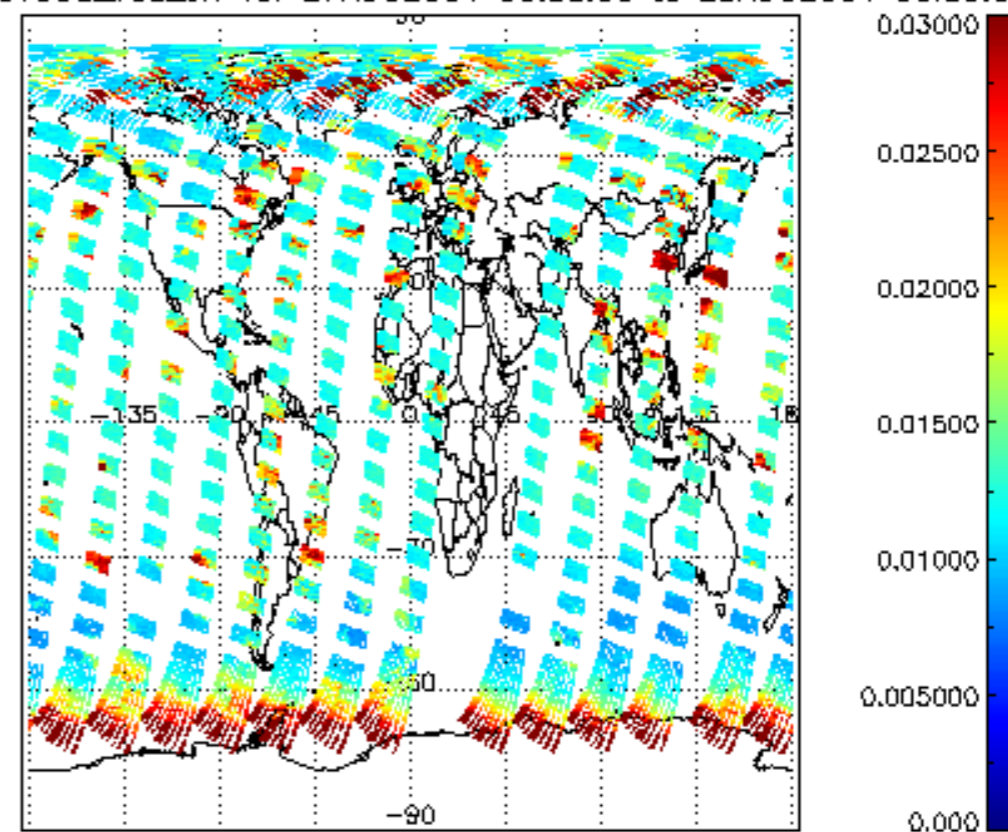




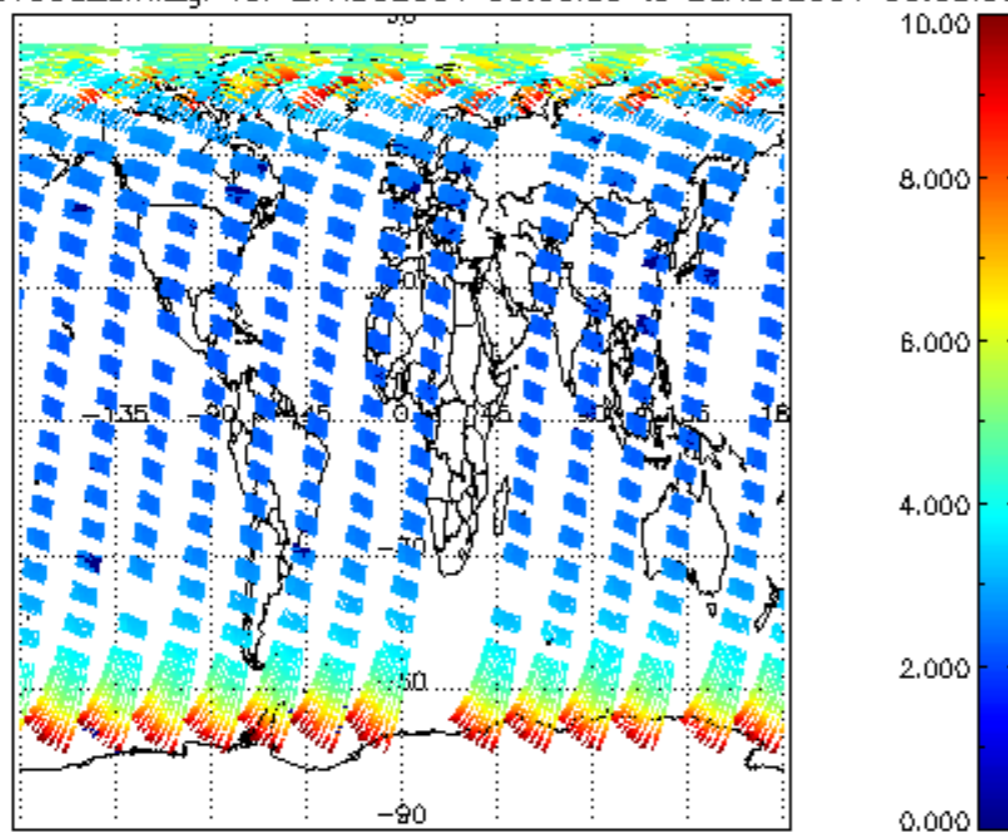
SCIOL2P_NADUV003_vcd for 27AUG2004 00:00:00 to 28AUG2004 00:00:00



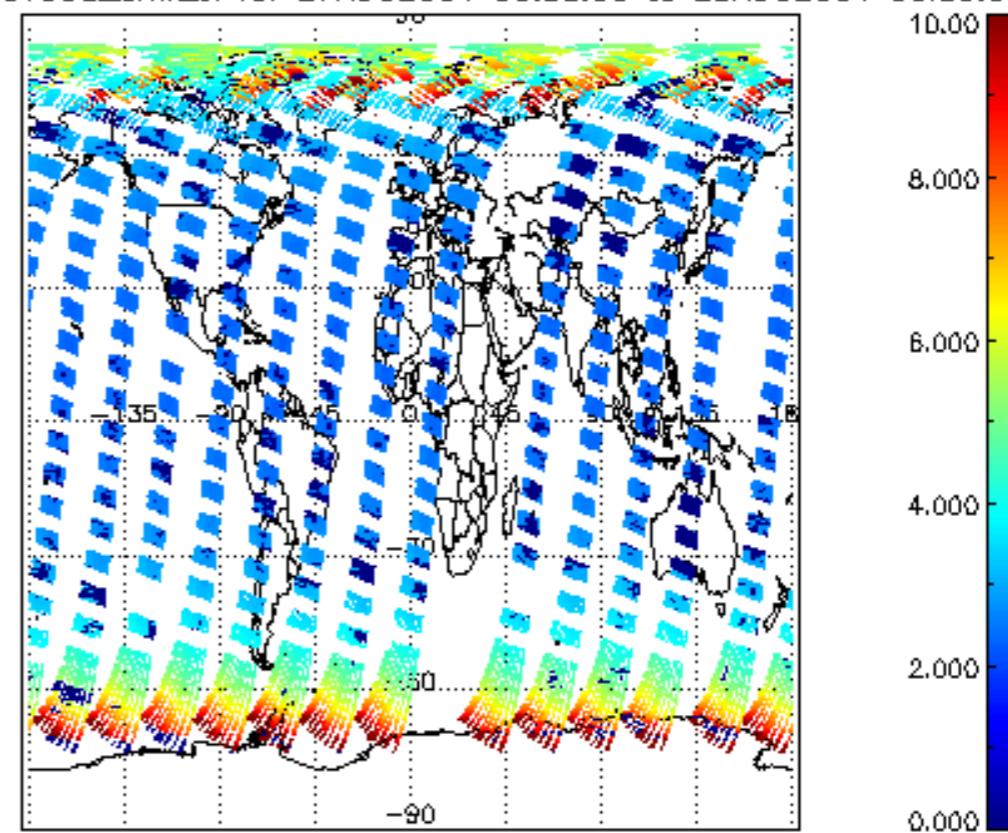
SCIOL2P_NADUV003_vcd_err for 27AUG2004 00:00:00 to 28AUG2004 00:00:00

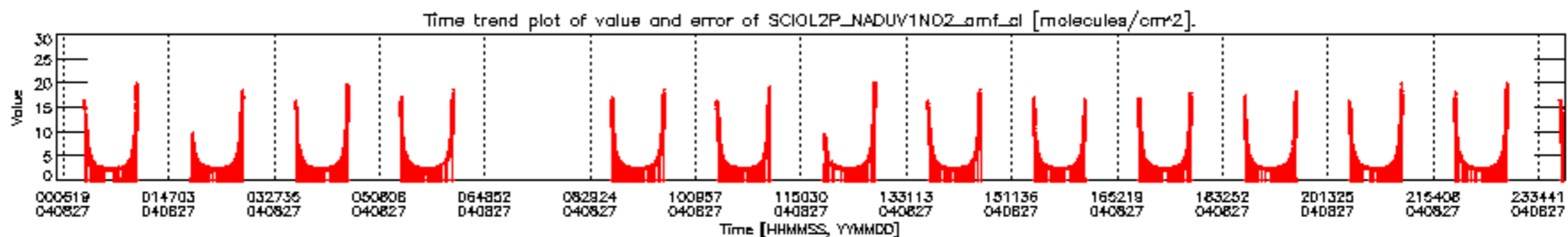
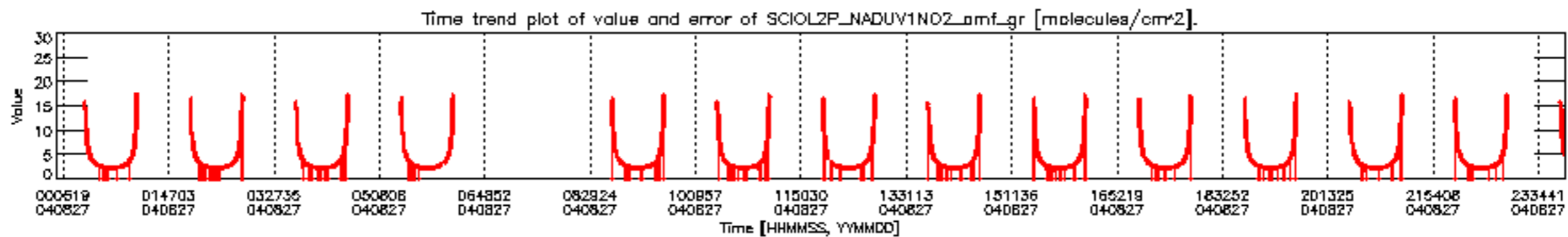
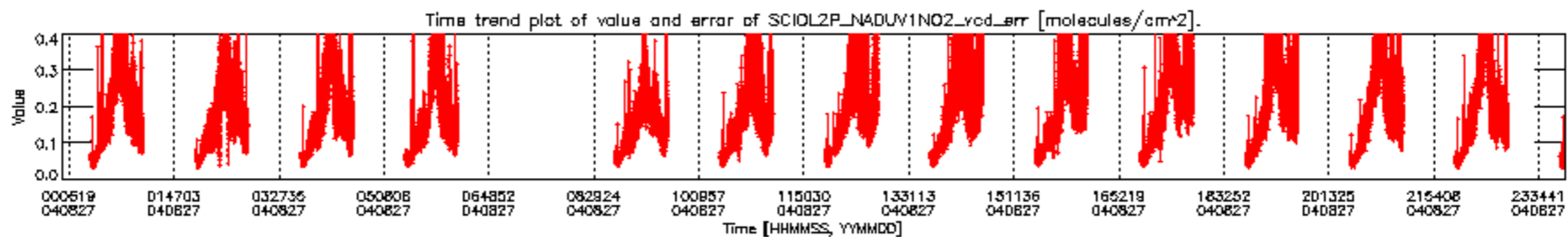
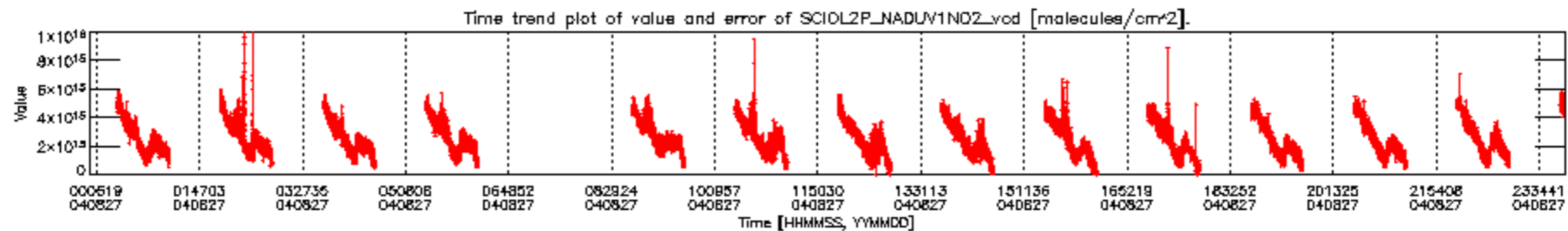


SCIOL2P_NADUV003_amf_gr for 27AUG2004 00:00:00 to 28AUG2004 00:00:00

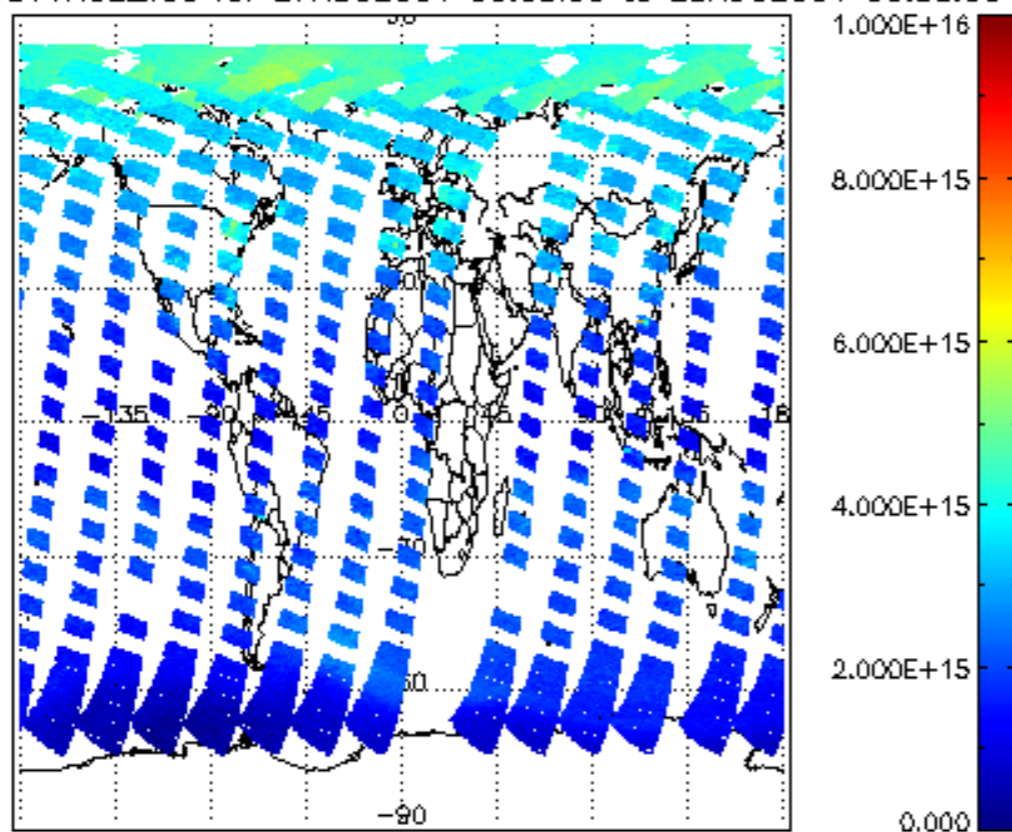


SCIOL2P_NADUV003_amf_cl for 27AUG2004 00:00:00 to 28AUG2004 00:00:00

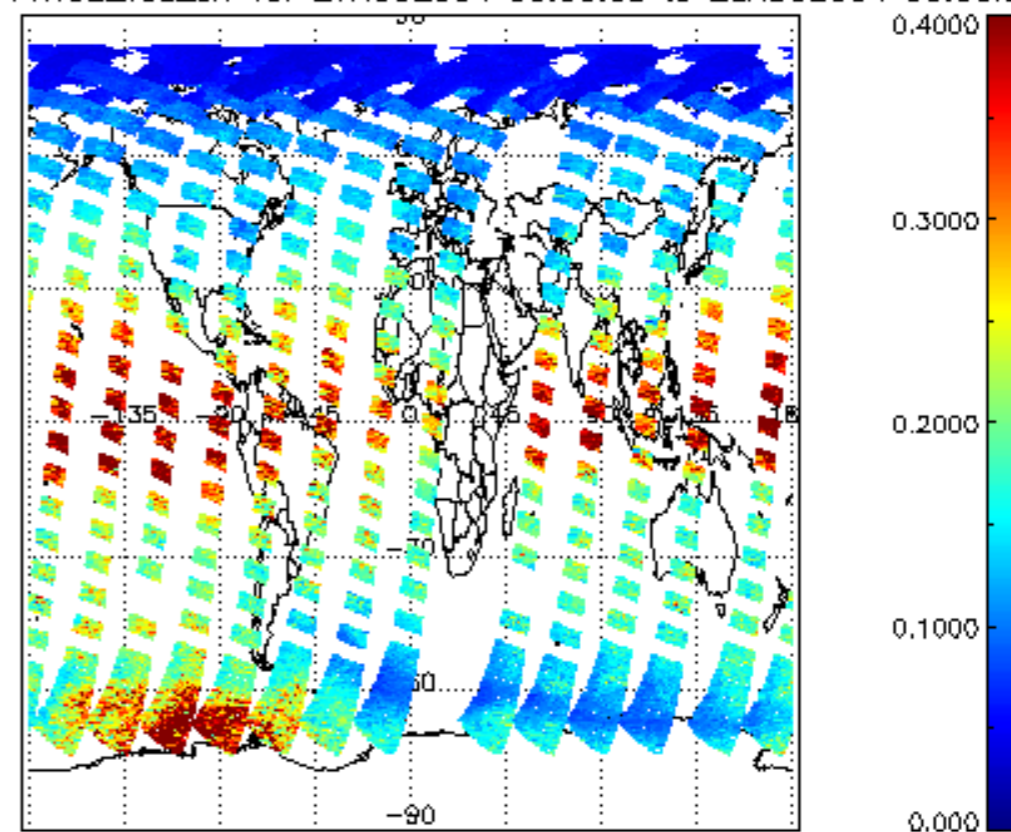




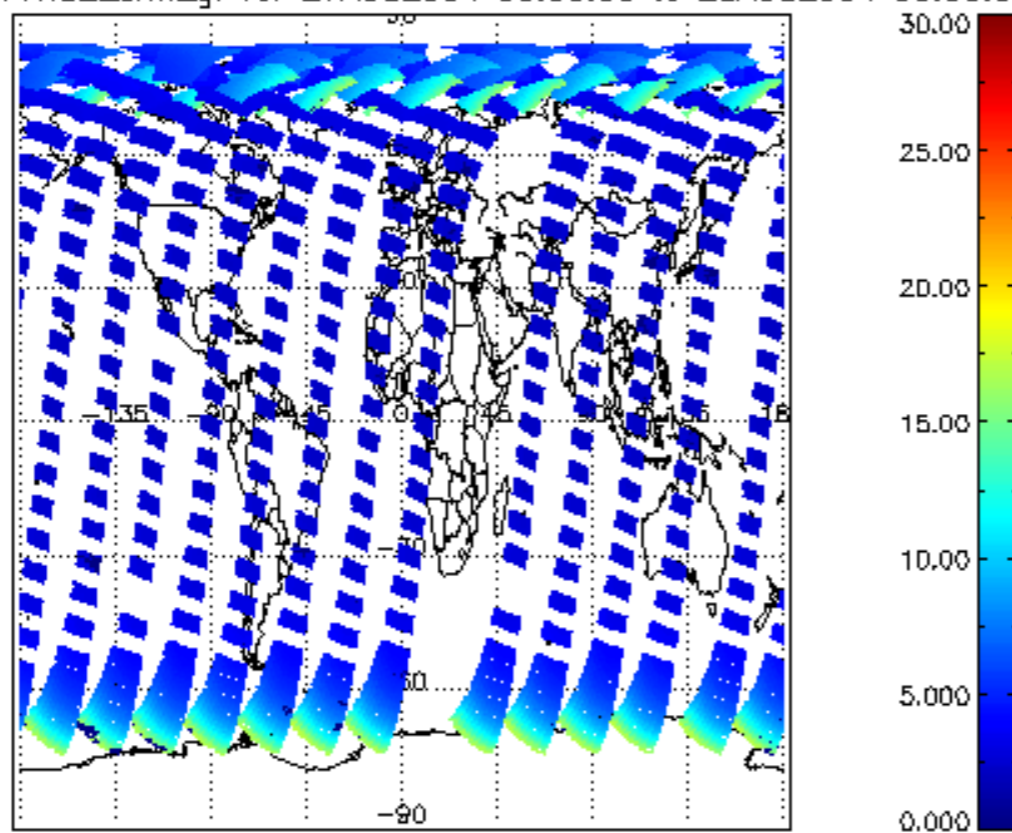
SCIOL2P_NADUV1NO2_vcd for 27AUG2004 00:00:00 to 28AUG2004 00:00:00



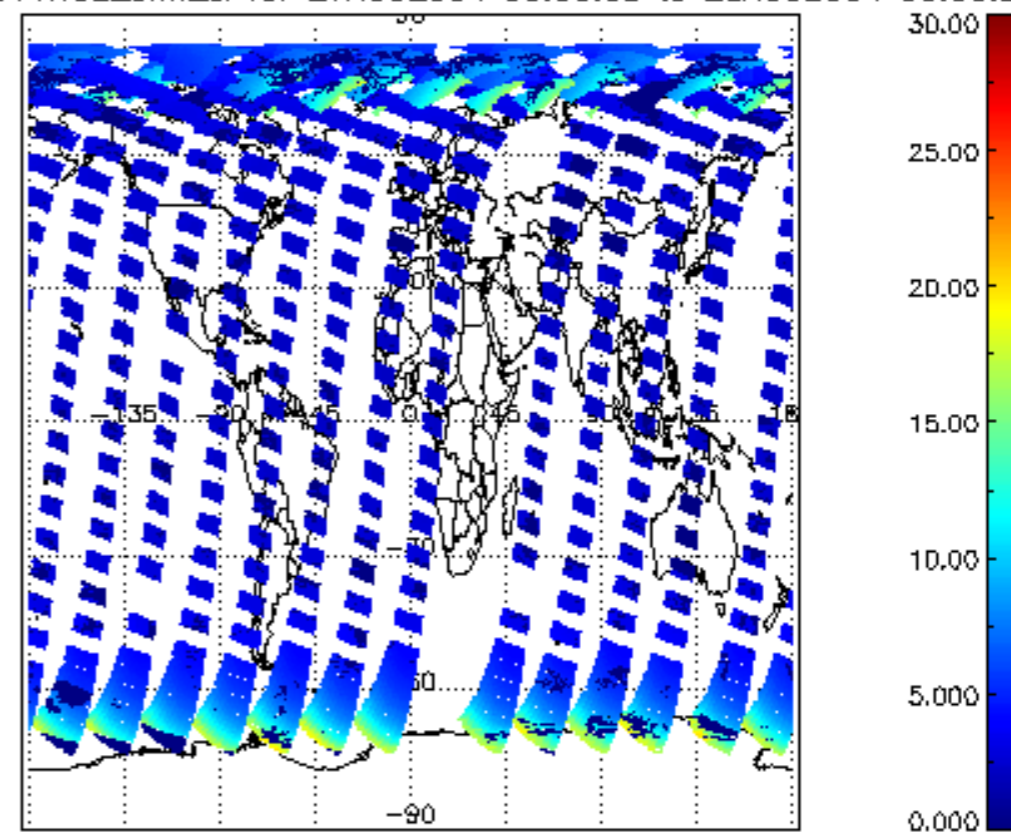
SCIOL2P_NADUV1NO2_vcd_err for 27AUG2004 00:00:00 to 28AUG2004 00:00:00



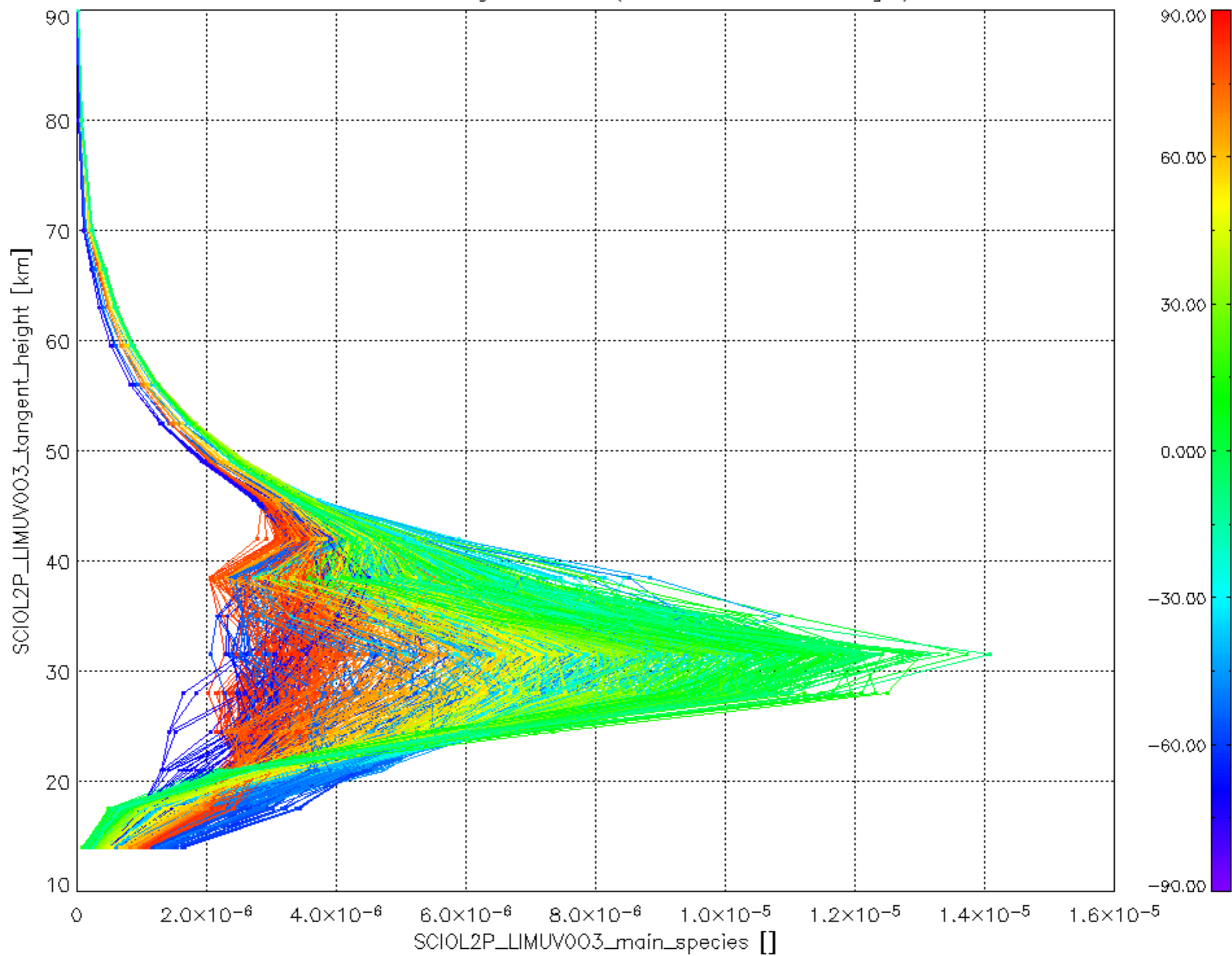
SCIOL2P_NADUV1NO2_amf_gr for 27AUG2004 00:00:00 to 28AUG2004 00:00:00



SCIOL2P_NADUV1NO2_amf_cl for 27AUG2004 00:00:00 to 28AUG2004 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).

