

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	15OCT2008 06:03:10
Data source version	SCIA-OL/3.01-R
Processing scope for products	27SEP2008 00:00:00 to 28SEP2008 00:00:00
Start time of first product within scope	26SEP2008 22:53:23
Stop time of last product within scope	28SEP2008 00:57:56
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__2PRDPA20080926_225323_000033812072_00259_34381_1564.N1	26SEP2008 22:53:23	26SEP2008 23:49:44	0	GOOD
1	SCI_OL__2PRDPA20080927_003359_000033252072_00260_34382_1567.N1	27SEP2008 00:33:59	27SEP2008 01:29:25	0	GOOD
2	SCI_OL__2PRDPA20080927_021436_000033812072_00261_34383_1568.N1	27SEP2008 02:14:36	27SEP2008 03:10:57	0	GOOD
3	SCI_OL__2PRDPA20080927_035512_000033252072_00262_34384_1570.N1	27SEP2008 03:55:12	27SEP2008 04:50:38	0	GOOD
4	SCI_OL__2PRDPA20080927_053549_000033812072_00263_34385_1572.N1	27SEP2008 05:35:49	27SEP2008 06:32:10	0	GOOD
5	SCI_OL__2PRDPA20080927_071625_000033252072_00264_34386_1574.N1	27SEP2008 07:16:25	27SEP2008 08:11:51	0	GOOD
6	SCI_OL__2PRDPA20080927_085702_000033812072_00265_34387_1576.N1	27SEP2008 08:57:02	27SEP2008 09:53:23	0	GOOD
7	SCI_OL__2PRDPA20080927_103738_000033252072_00266_34388_1579.N1	27SEP2008 10:37:38	27SEP2008 11:33:04	0	GOOD
8	SCI_OL__2PRDPA20080927_121815_000033812072_00267_34389_1580.N1	27SEP2008 12:18:15	27SEP2008 13:14:36	0	GOOD
9	SCI_OL__2PRDPA20080927_135851_000033252072_00268_34390_1582.N1	27SEP2008 13:58:51	27SEP2008 14:54:17	0	GOOD
10	SCI_OL__2PRDPA20080927_153928_000033812072_00269_34391_1584.N1	27SEP2008 15:39:28	27SEP2008 16:35:49	0	GOOD
11	SCI_OL__2PRDPA20080927_172024_000033252072_00270_34392_1586.N1	27SEP2008 17:20:24	27SEP2008 18:15:50	0	GOOD
12	SCI_OL__2PRDPA20080927_190101_000033122072_00271_34393_1588.N1	27SEP2008 19:01:01	27SEP2008 19:56:14	0	GOOD
13	SCI_OL__2PRDPA20080927_204117_000033252072_00272_34394_1591.N1	27SEP2008 20:41:17	27SEP2008 21:36:43	0	GOOD
14	SCI_OL__2PRDPA20080927_222154_000033812072_00273_34395_1592.N1	27SEP2008 22:21:54	27SEP2008 23:18:15	0	GOOD
15	SCI_OL__2PRDPA20080928_000230_000033252072_00274_34396_1594.N1	28SEP2008 00:02:30	28SEP2008 00:57:56	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: 145080

Total number of cloud data DSRs with good quality flag (=0): 145080 (100.0 %)

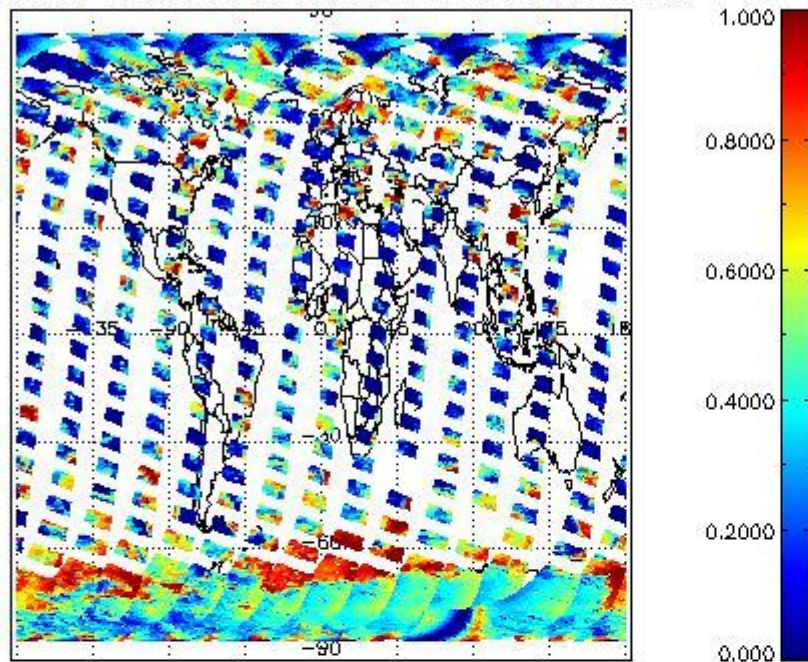
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	145080	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	145080	0.17025	0.12500	0.12500	0.25000	0.060073	s
CL_FRAC	145080	0.37036	0.34370	0.0000	1.0000	0.28929	-
CL_FRAC_ERR	145080	0.0000	0.0000	0.0000	0.0000	0.0000	rel. fraction
PMD_READ	145080	5.4480	4.0000	4.0000	8.0000	1.9223	-
PMD_READ_CL[0]	145080	0.19017	0.0000	0.0000	8.0000	0.95841	-
PMD_READ_CL[1]	145080	1.2029	0.0000	0.0000	8.0000	2.4007	-
CL_TOP_HEIGHT	121386	3.8927	2.2578	0.0000	17.000	4.0674	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	121386	56.097	52.073	0.0000	101.00	41.613	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	145080	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	145080	11001011	11000100	11000000	11100000	3399.1	flags
AERO_ABSO_IND	145080	3.0236	3.4823	-1.2408	14.724	2.1214	-
AERO_IND_DIAG	145080	0.0000	0.0000	0.0000	0.0000	0.0000	-
AERO_FLAGS	145080	01010111	00000000	00000000	11000000	24478.	flags

Time and geolocation plots:

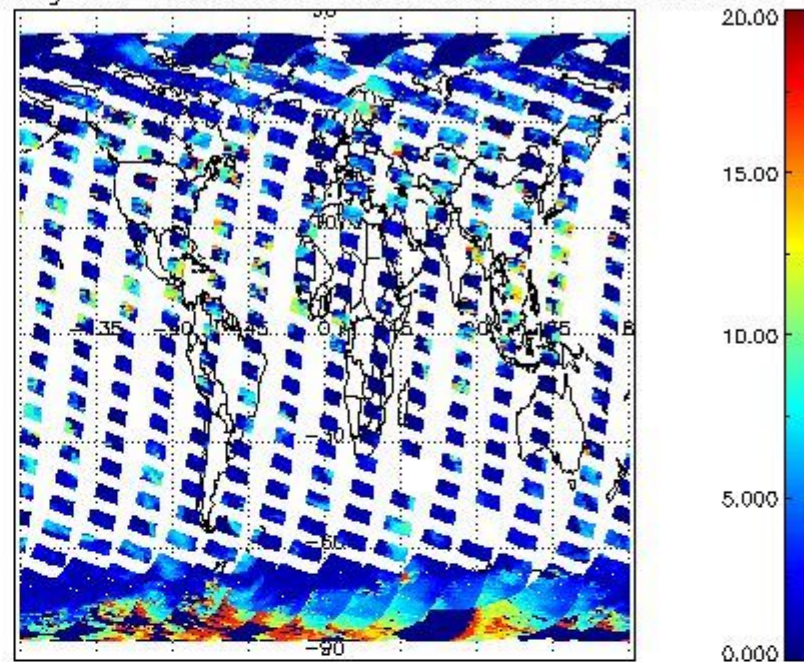
Plots are available for the following parameters:

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

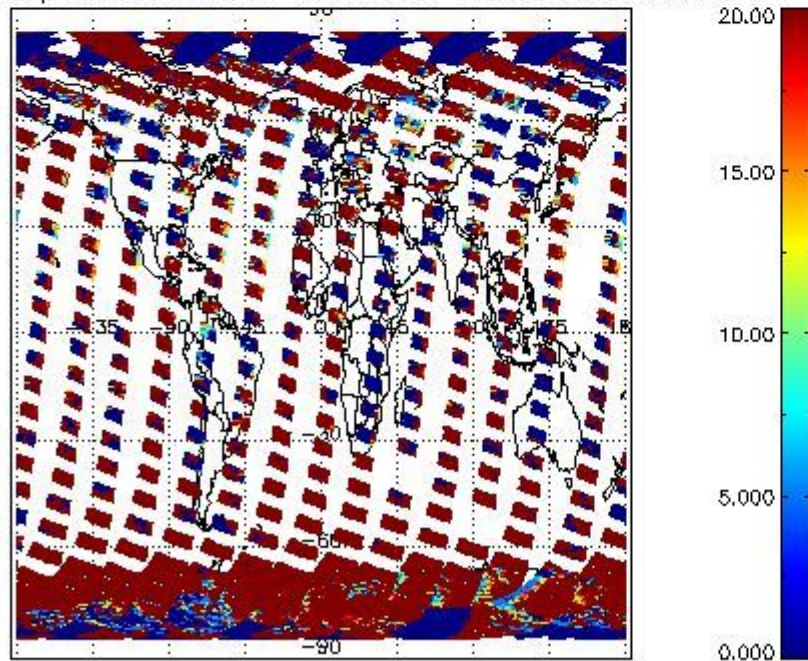
cL_frac for 27SEP2008 00:00:00 to 28SEP2008 00:00:00



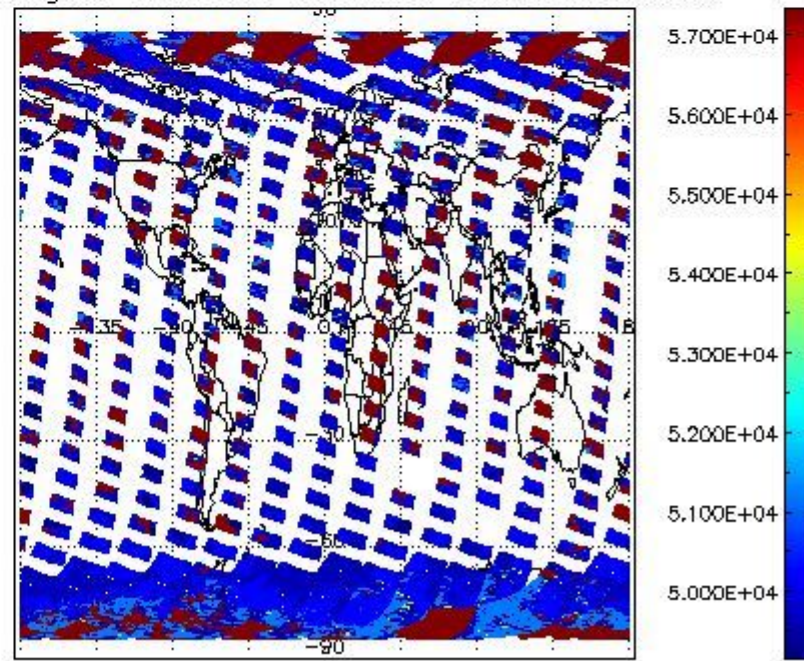
cL_top_height for 27SEP2008 00:00:00 to 28SEP2008 00:00:00



cL_opt_depth for 27SEP2008 00:00:00 to 28SEP2008 00:00:00



cloud_flags for 27SEP2008 00:00:00 to 28SEP2008 00:00:00



2.2.2 Nadir

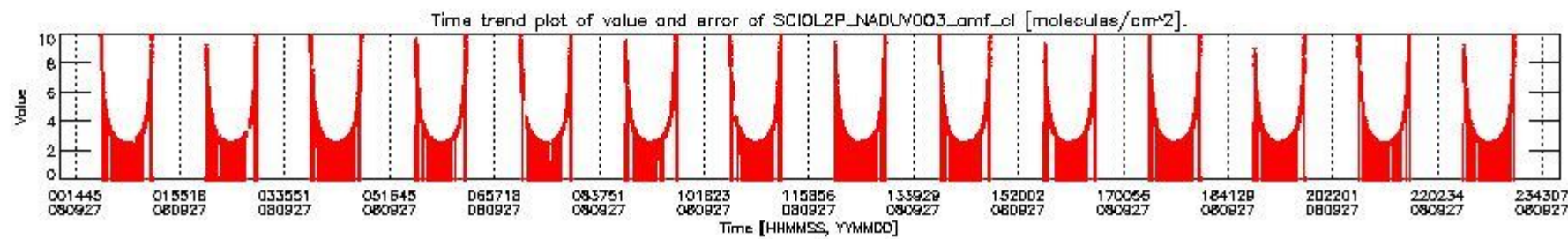
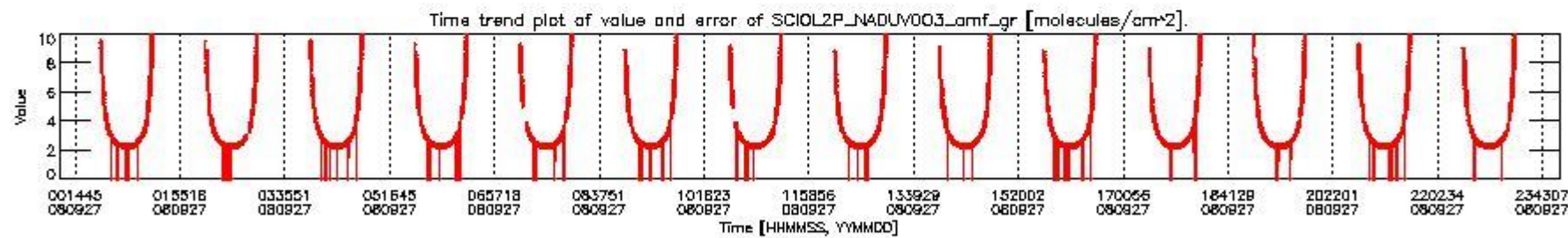
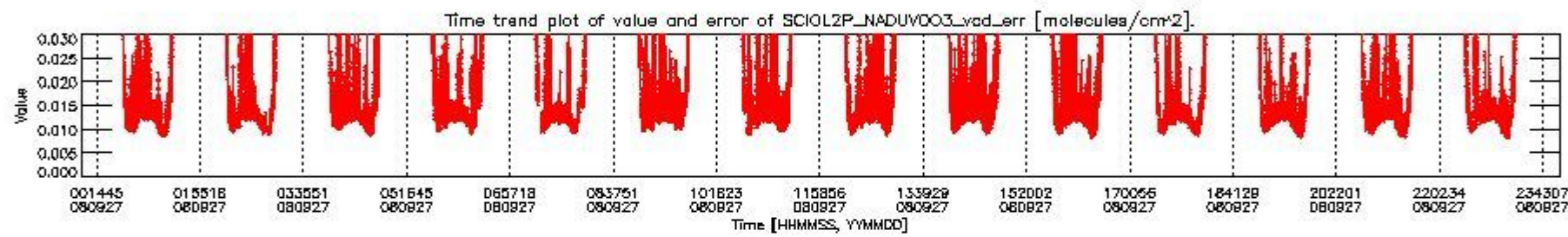
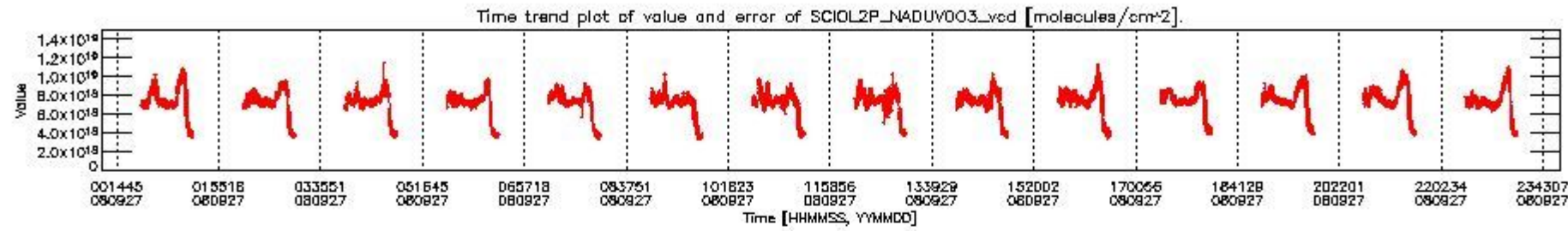
This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

The following data items are currently included into this section:

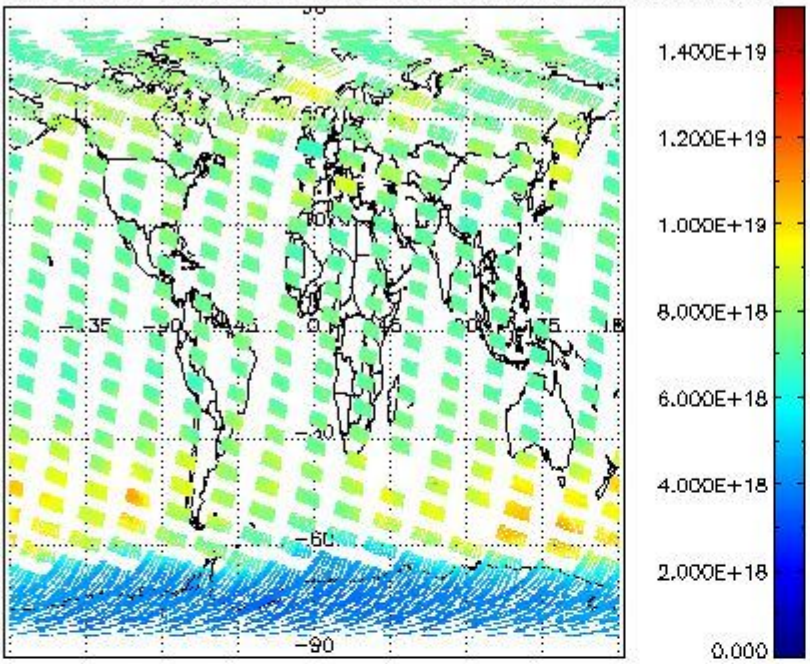
Number	Data item ID
0	SCIOL2P_NADUV003_vcd
1	SCIOL2P_NADUV003_vcd_err
2	SCIOL2P_NADUV003_amf_gr

3	SCIOL2P_NADUV003_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl

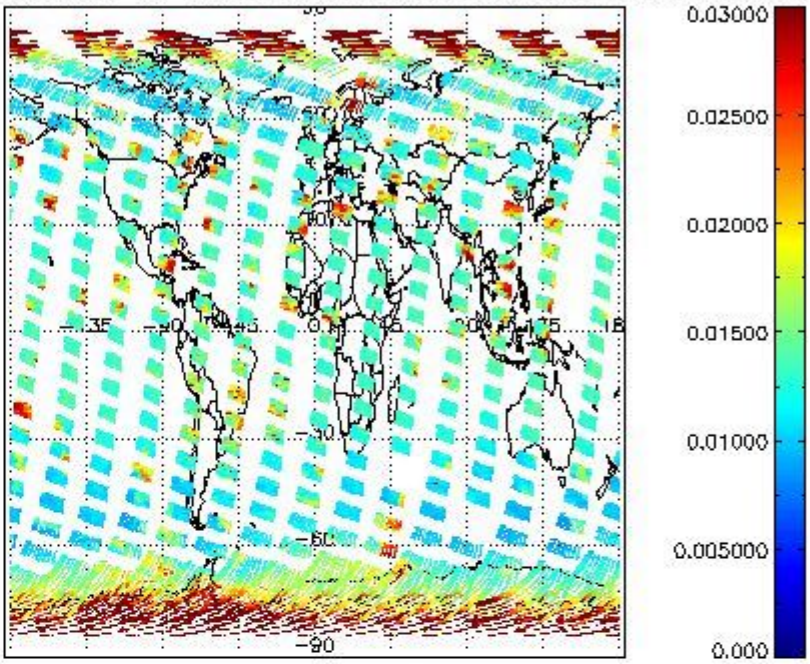
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



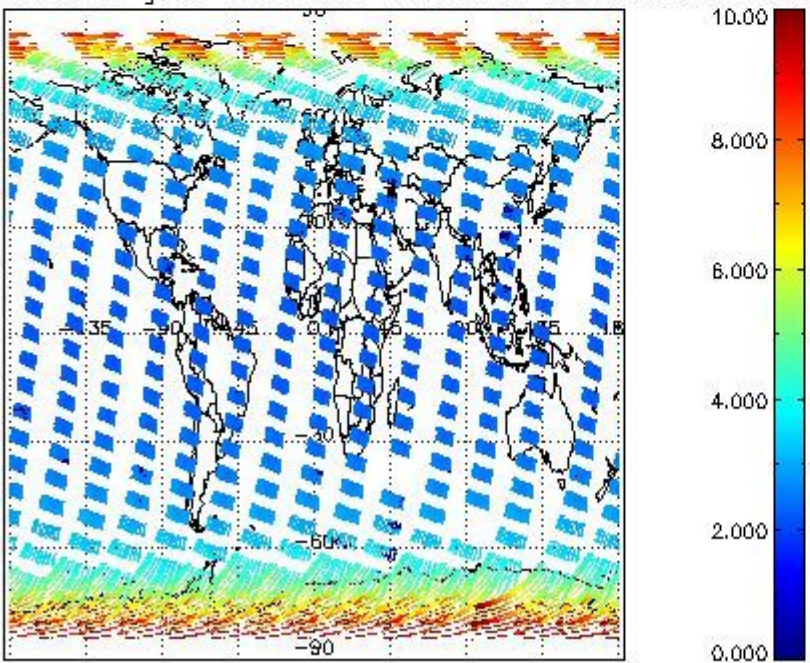
SCIOL2P_NADUV003_vcd for 27SEP2008 00:00:00 to 28SEP2008 00:00:00



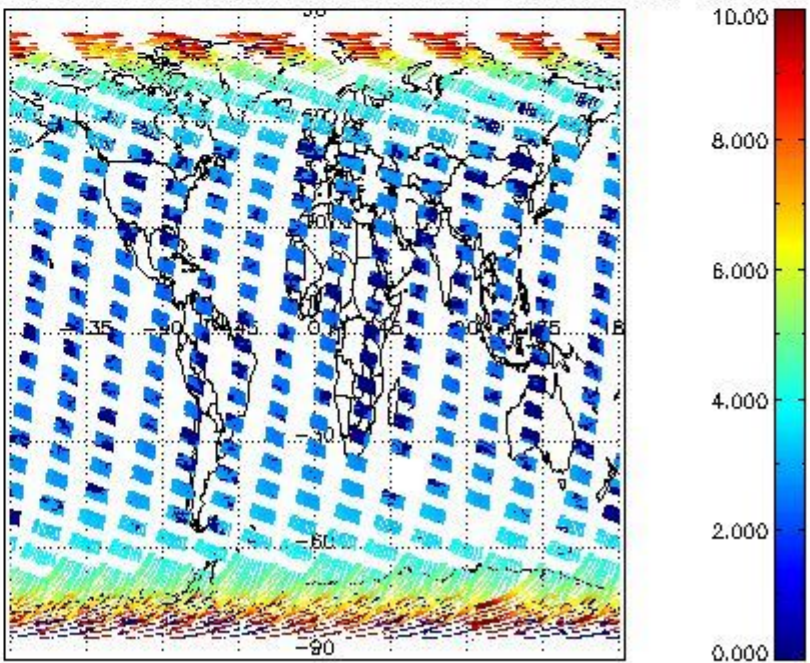
SCIOL2P_NADUV003_vcd_err for 27SEP2008 00:00:00 to 28SEP2008 00:00:00

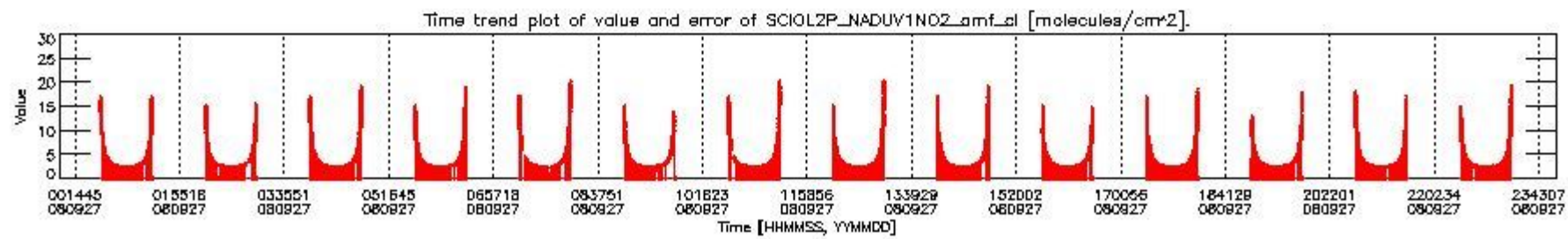
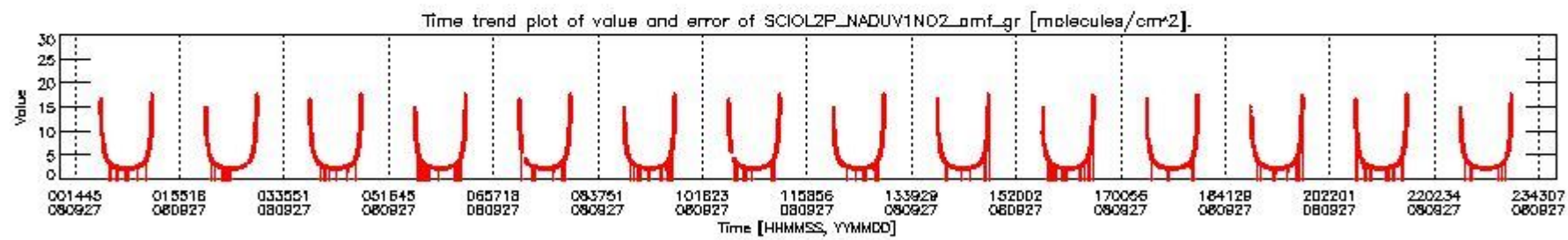
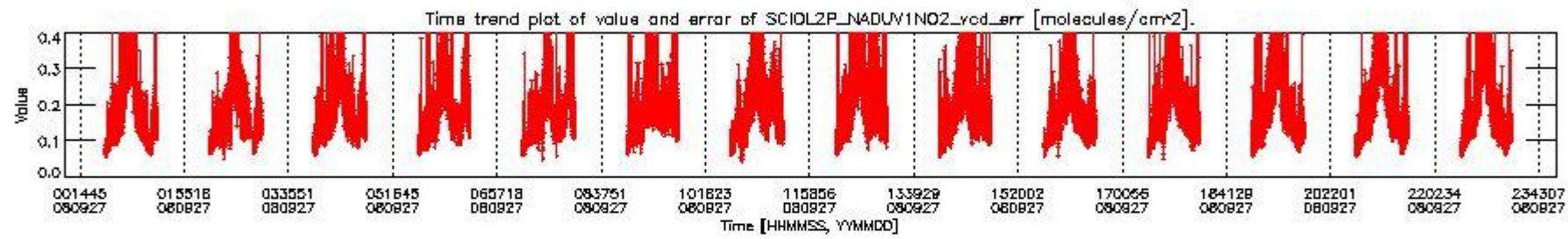
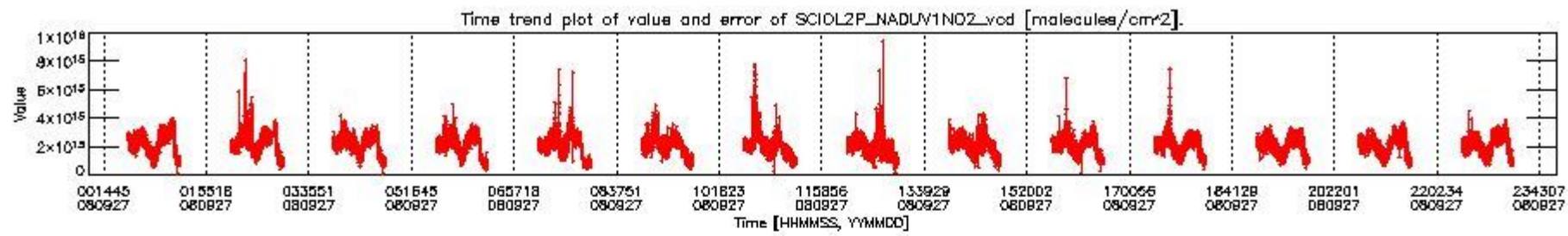


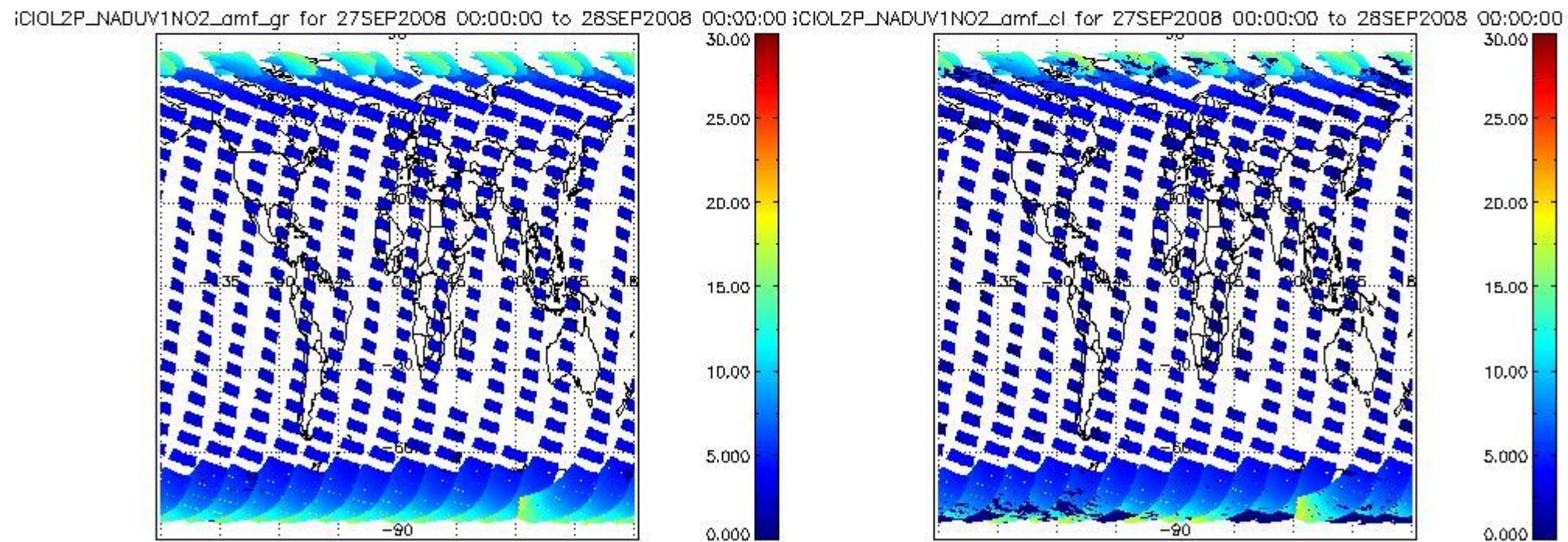
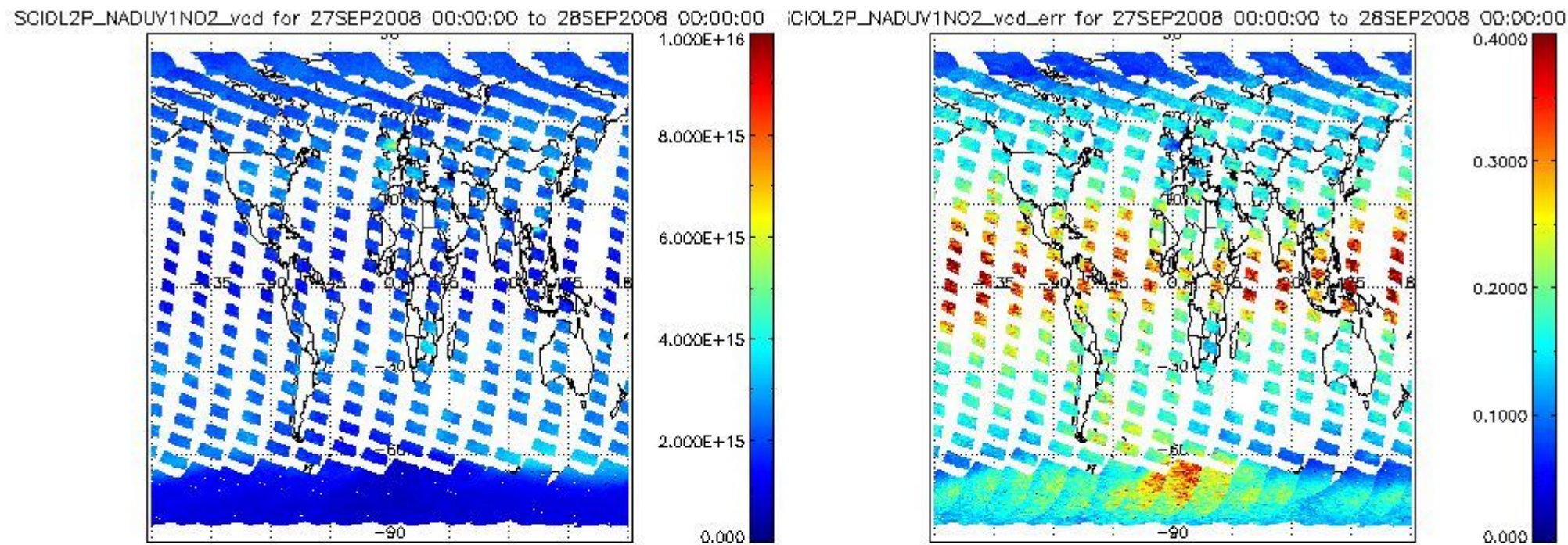
SCIOL2P_NADUV003_amf_gr for 27SEP2008 00:00:00 to 28SEP2008 00:00:00



SCIOL2P_NADUV003_amf_cl for 27SEP2008 00:00:00 to 28SEP2008 00:00:00







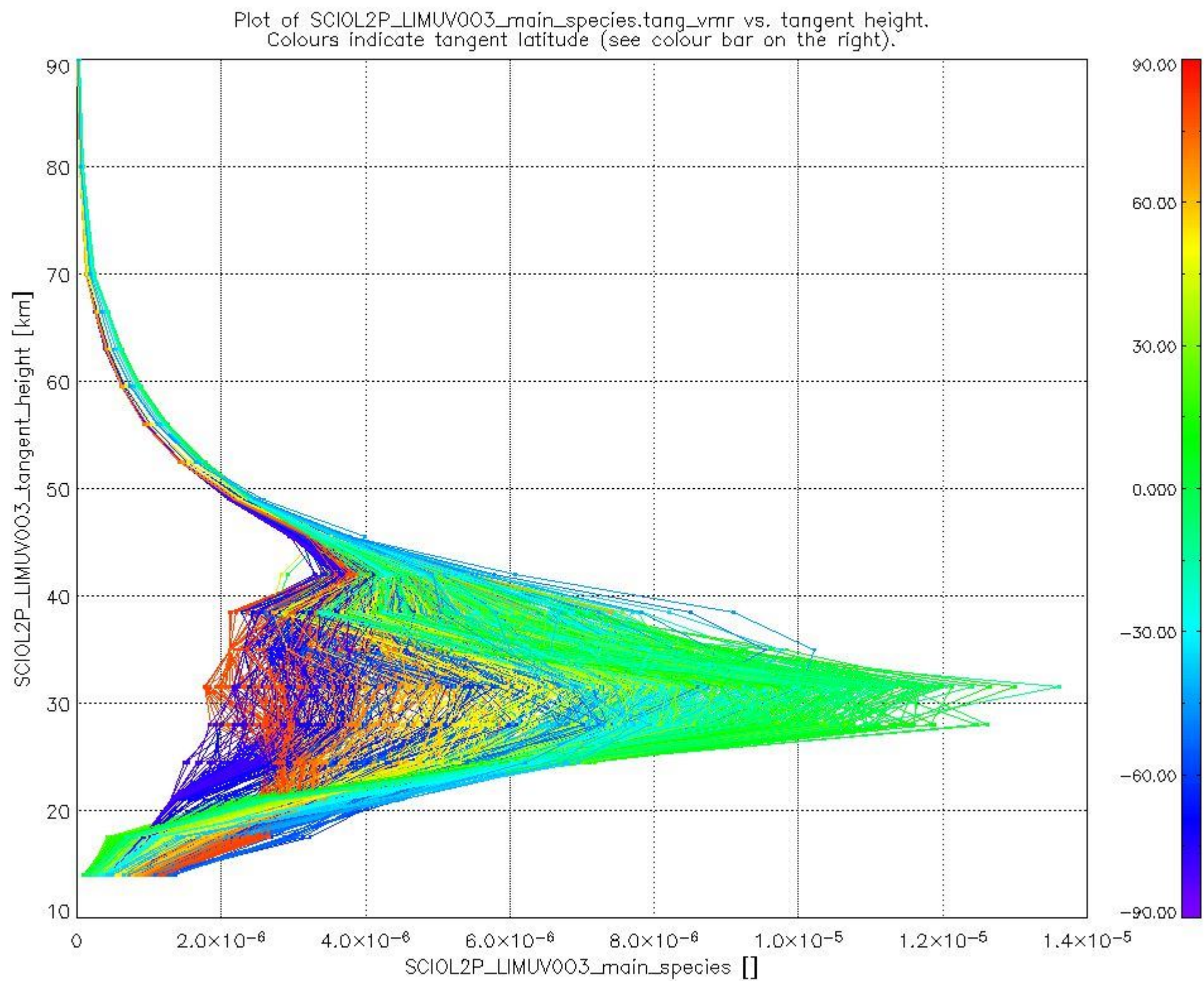
2.2.3 Limb

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

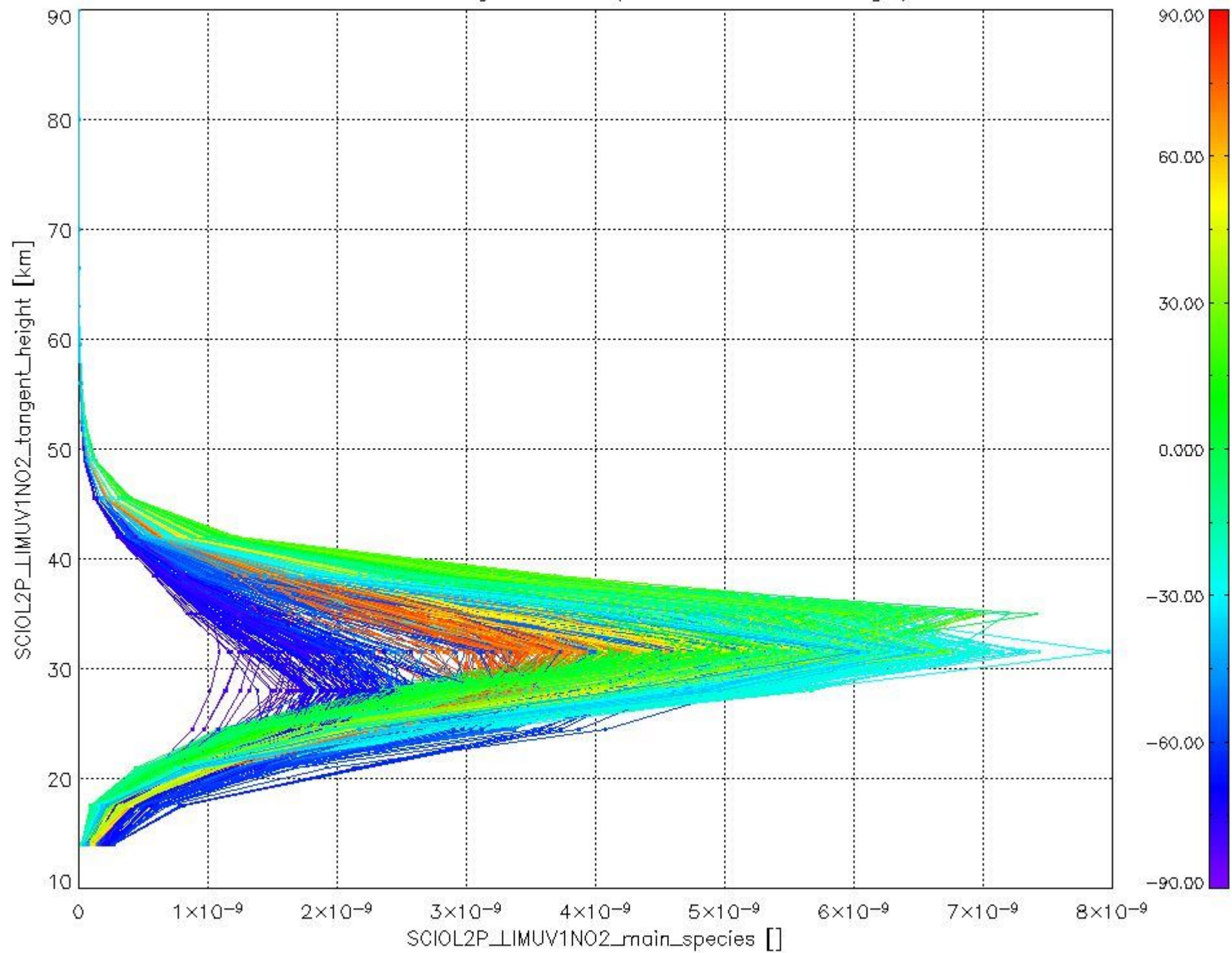
The following data items are currently included into this section:

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.



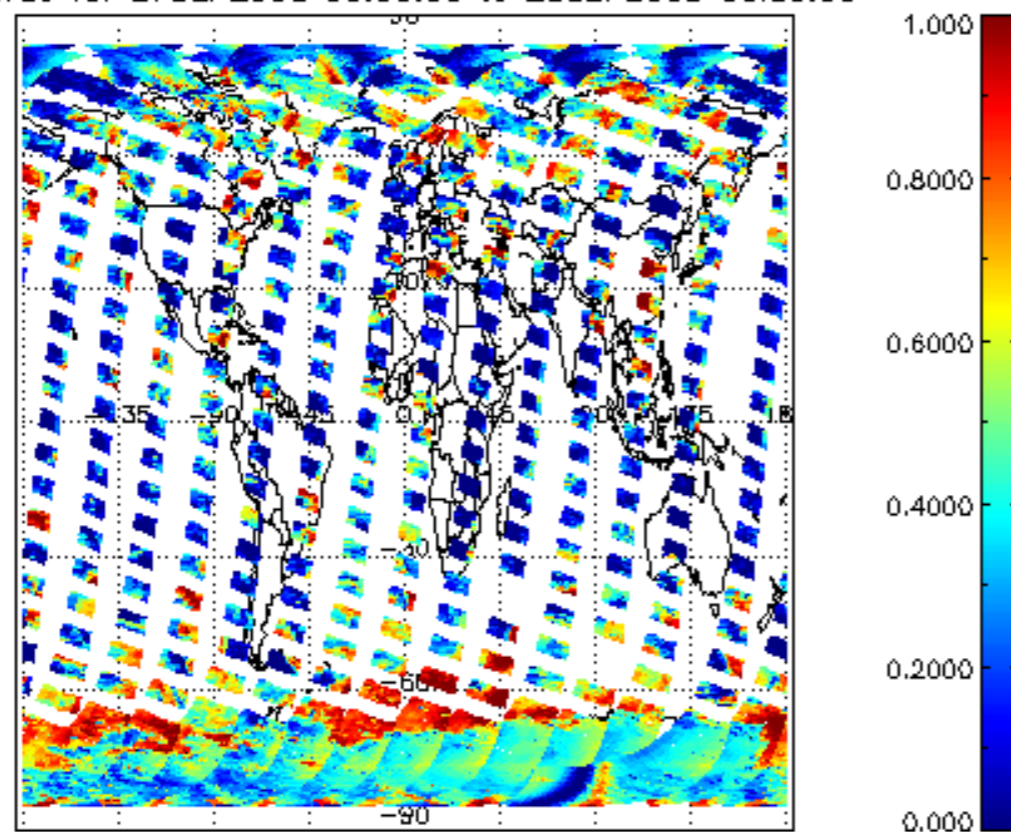
Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).



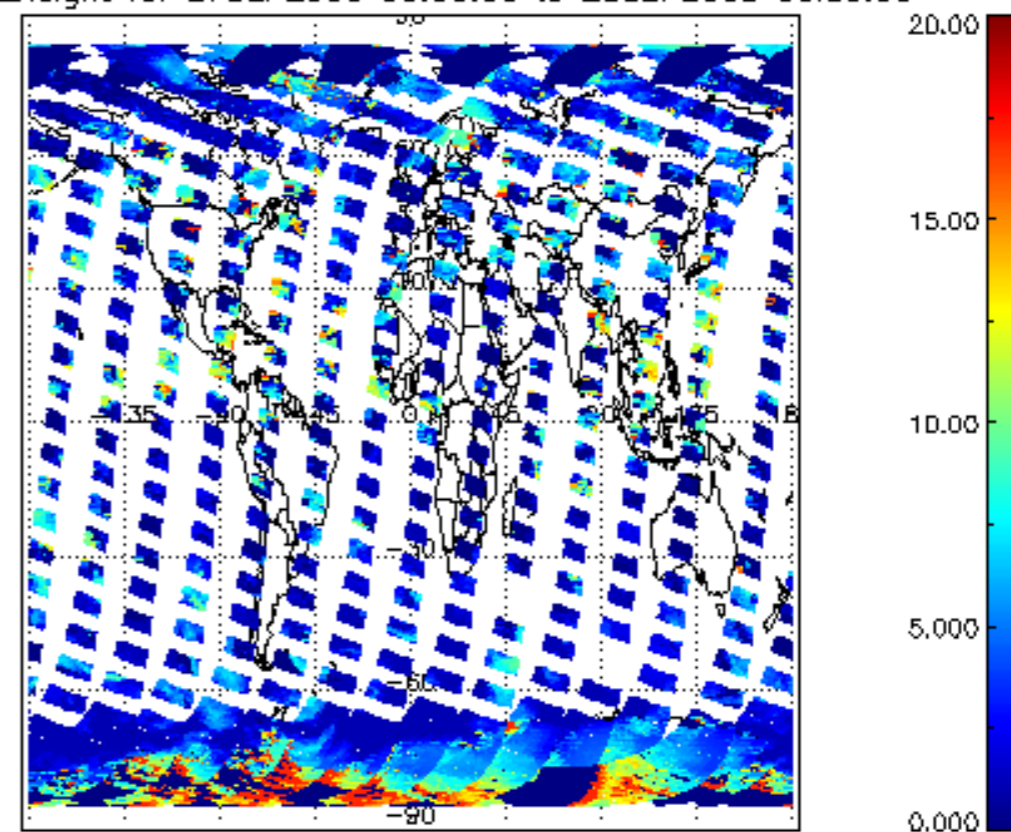
2.3 ADF monitoring

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

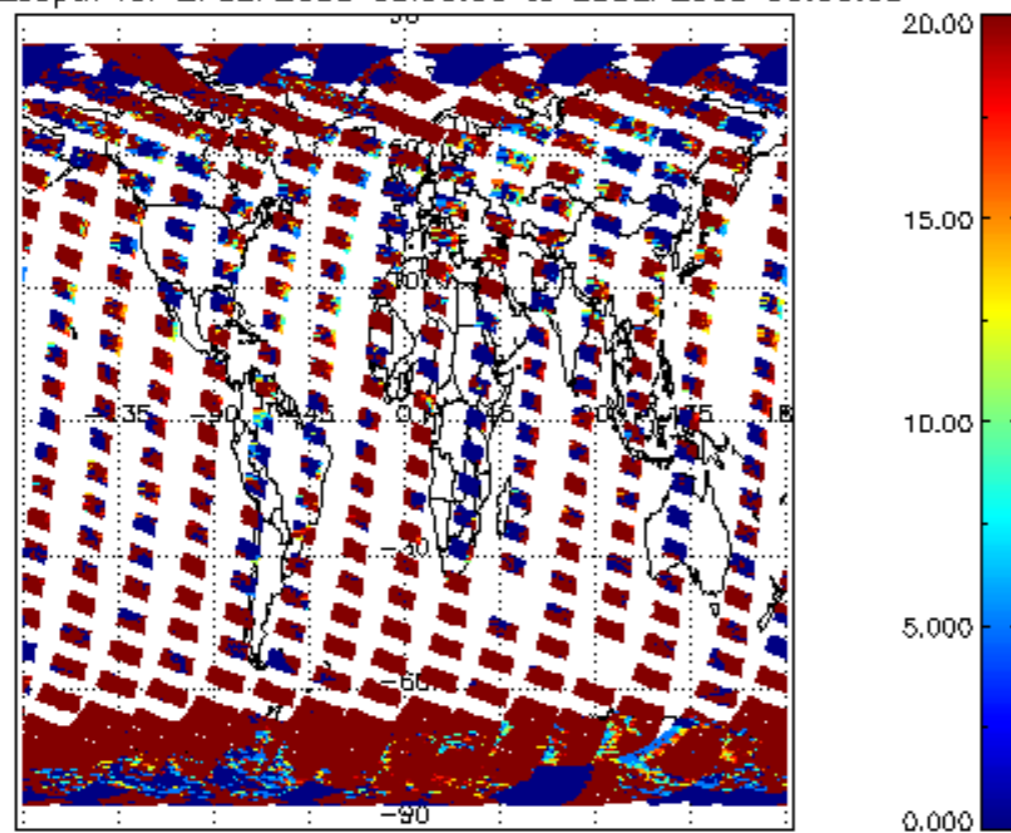
cl_frac for 27SEP2008 00:00:00 to 28SEP2008 00:00:00



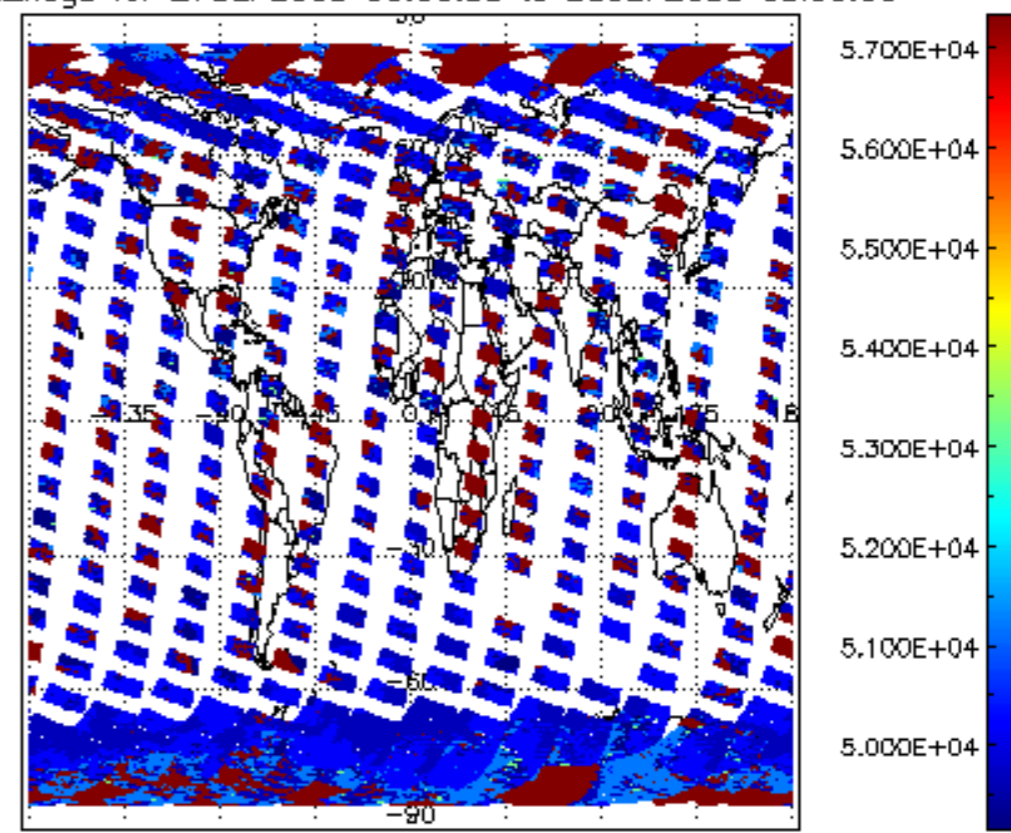
cl_top_height for 27SEP2008 00:00:00 to 28SEP2008 00:00:00

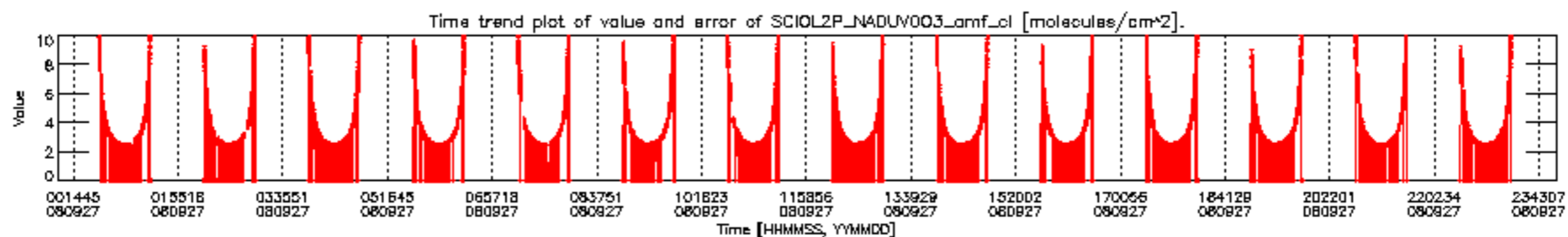
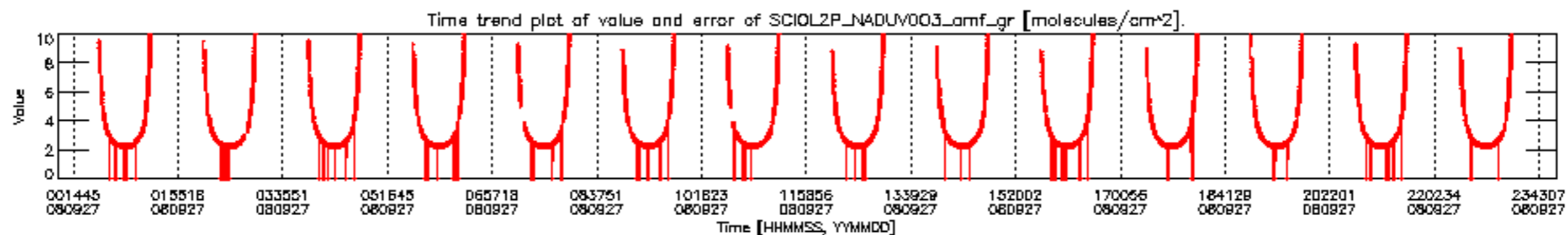
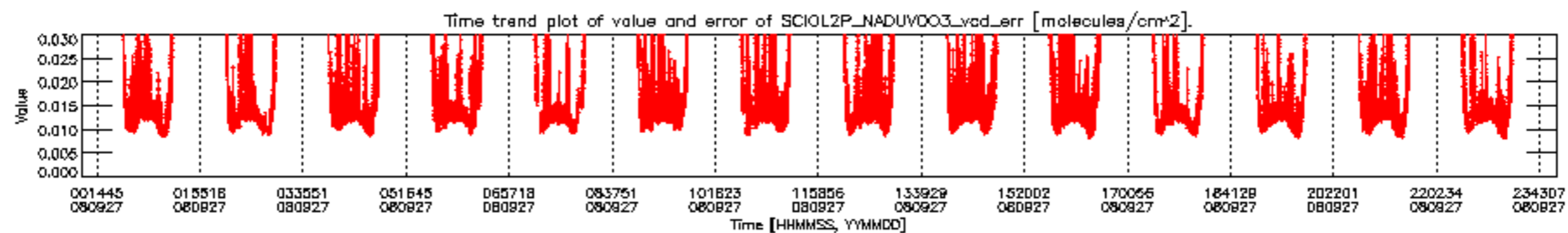
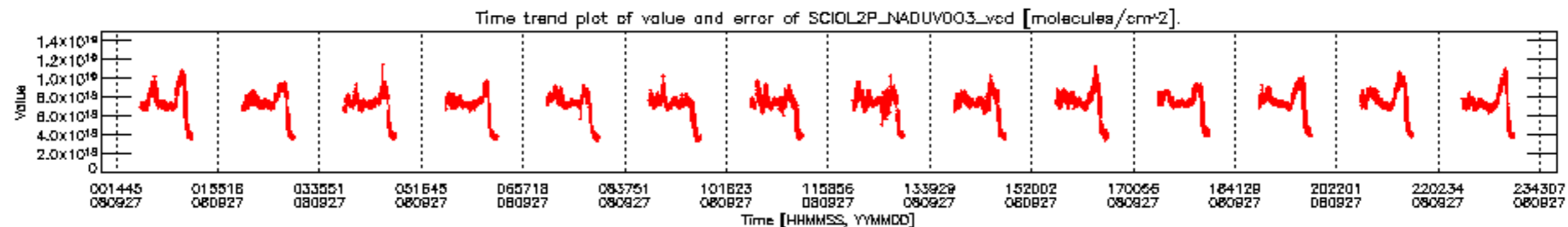


cl_opt_depth for 27SEP2008 00:00:00 to 28SEP2008 00:00:00

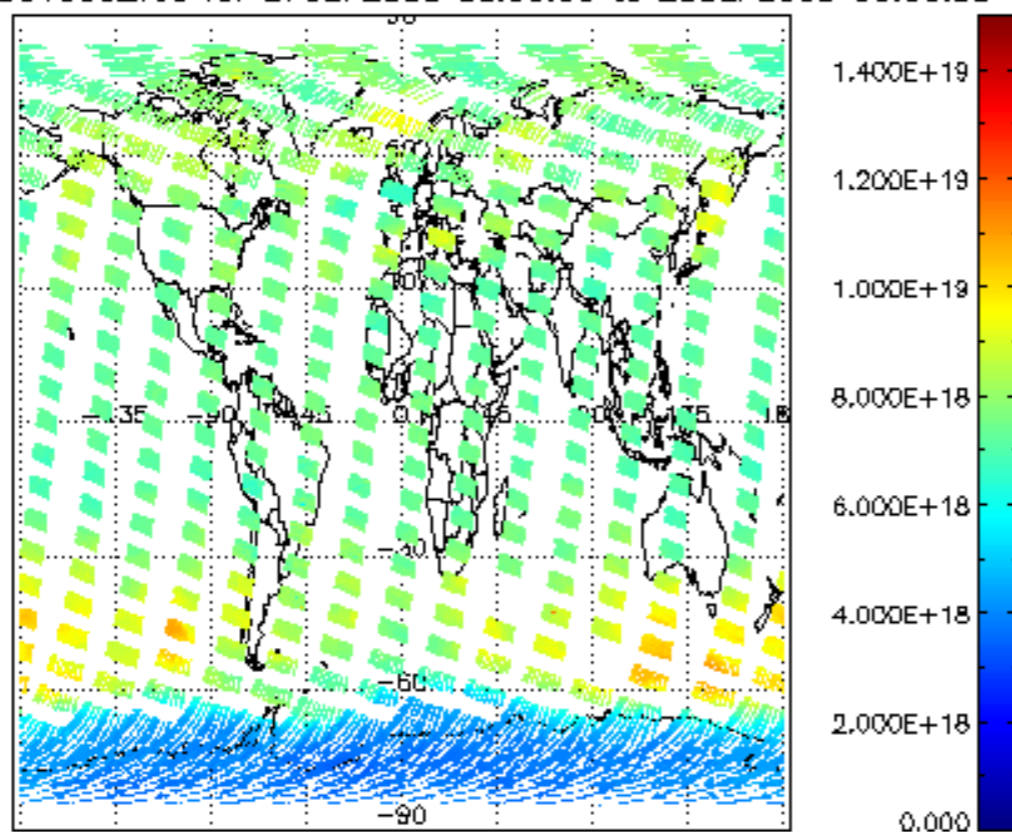


cloud_flags for 27SEP2008 00:00:00 to 28SEP2008 00:00:00

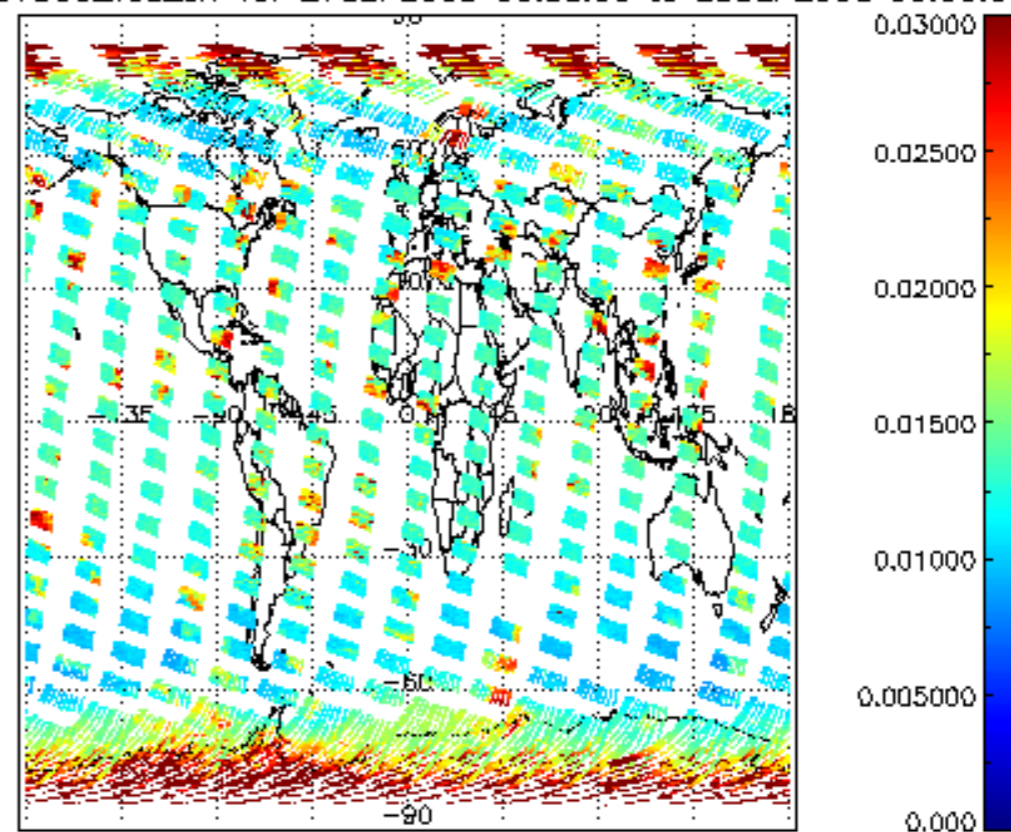




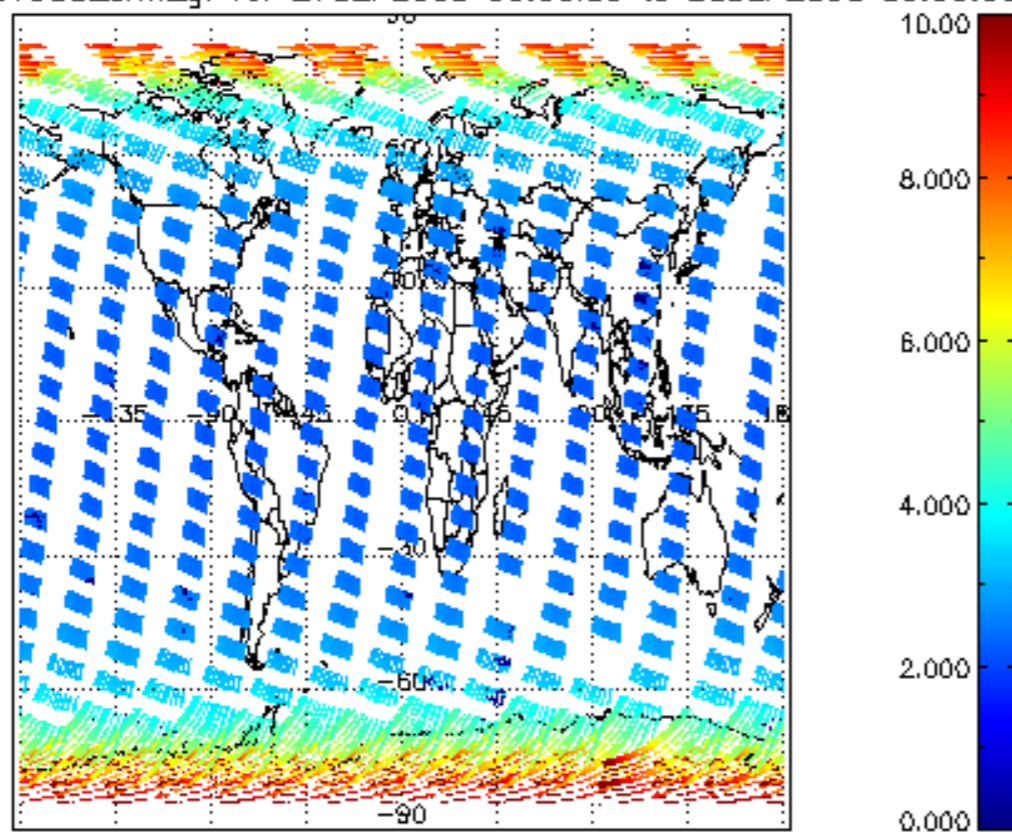
SCIOL2P_NADUV003_vcd for 27SEP2008 00:00:00 to 28SEP2008 00:00:00



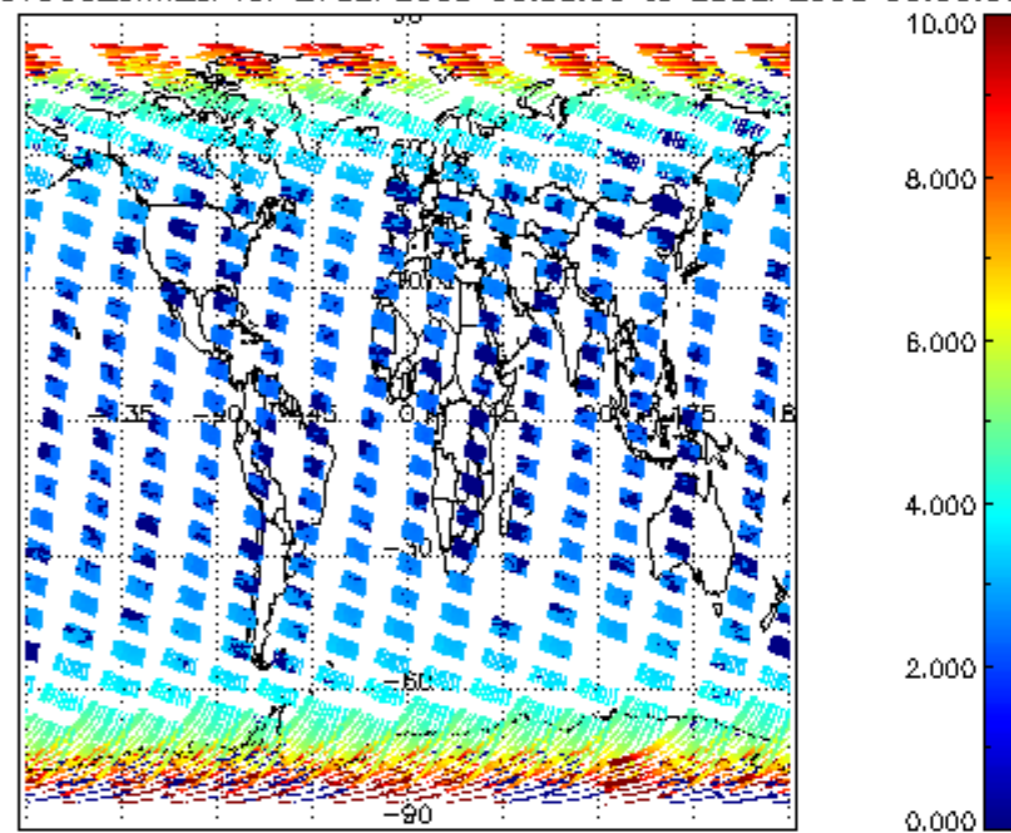
SCIOL2P_NADUV003_vcd_err for 27SEP2008 00:00:00 to 28SEP2008 00:00:00

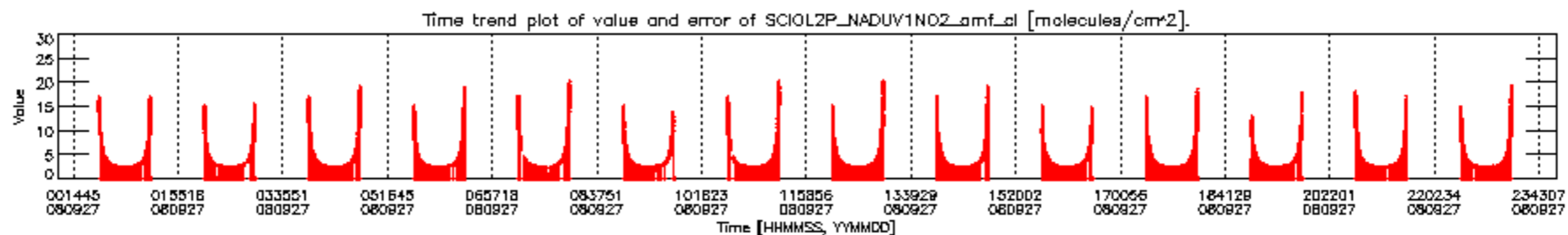
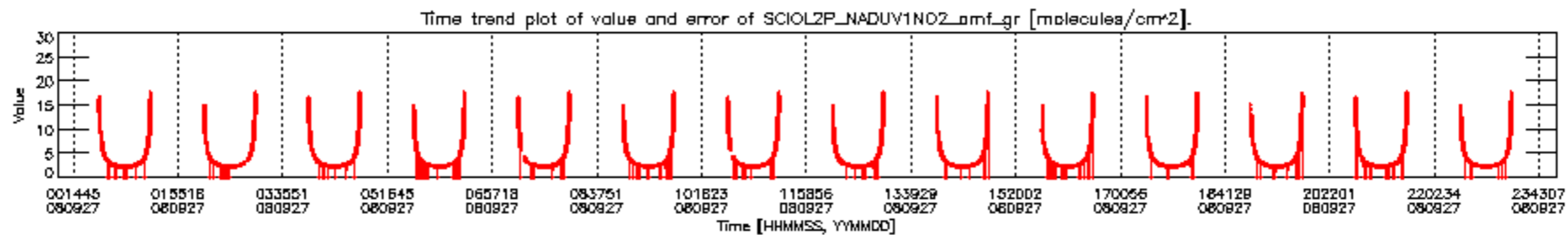
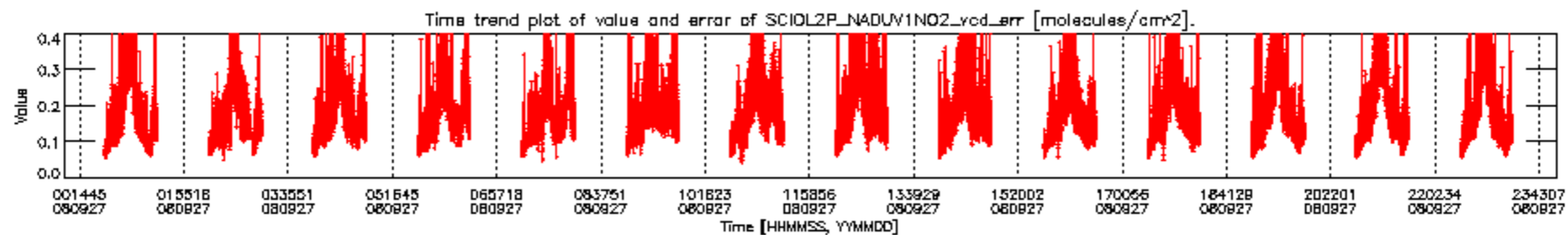
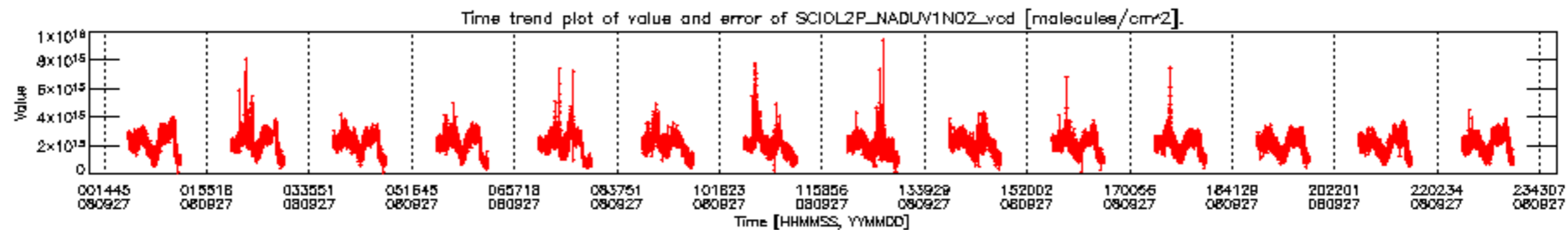


SCIOL2P_NADUV003_amf_gr for 27SEP2008 00:00:00 to 28SEP2008 00:00:00

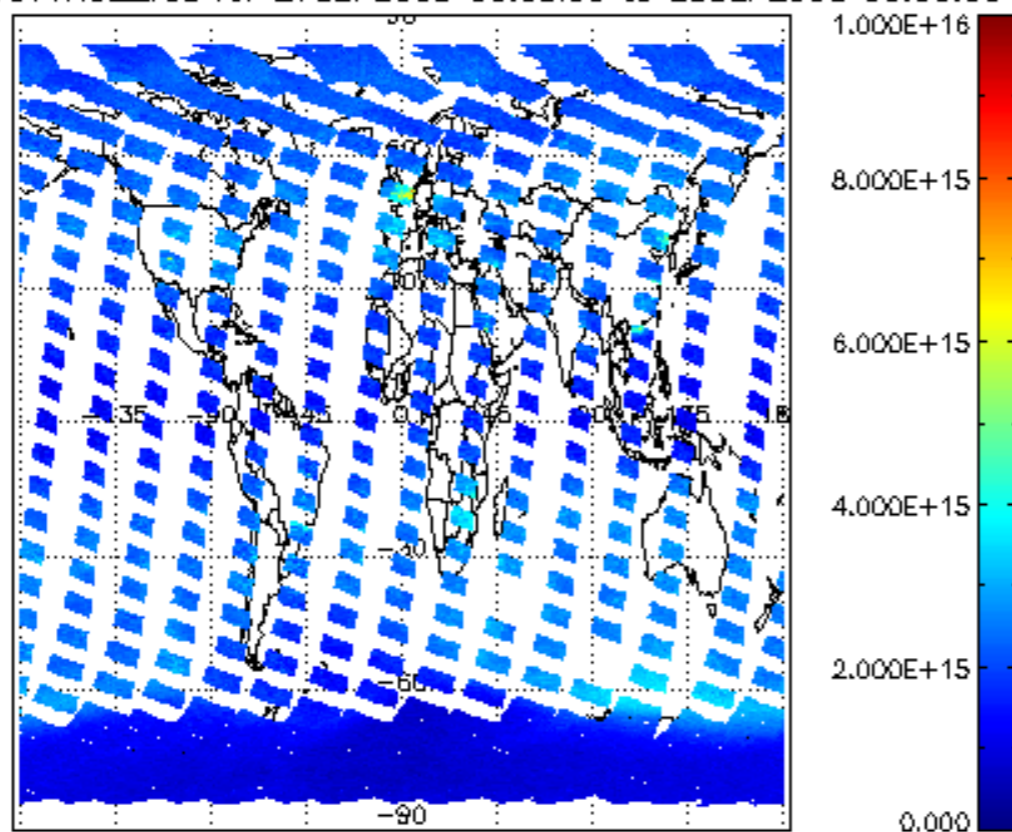


SCIOL2P_NADUV003_amf_cl for 27SEP2008 00:00:00 to 28SEP2008 00:00:00

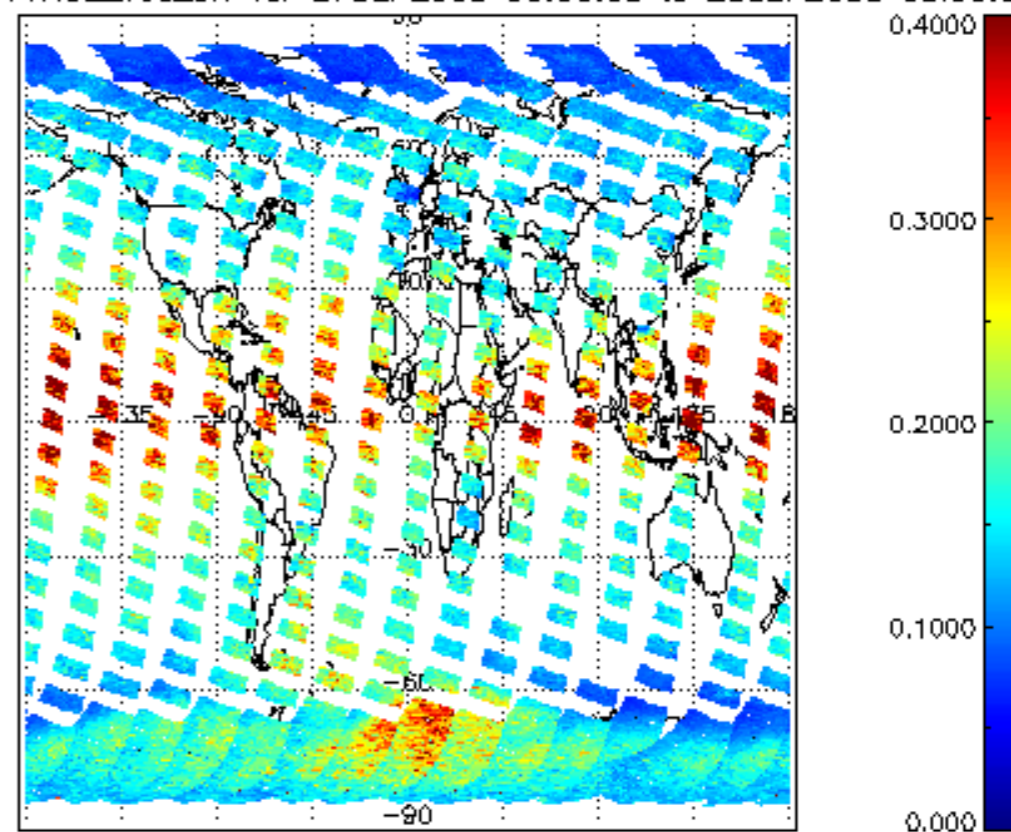




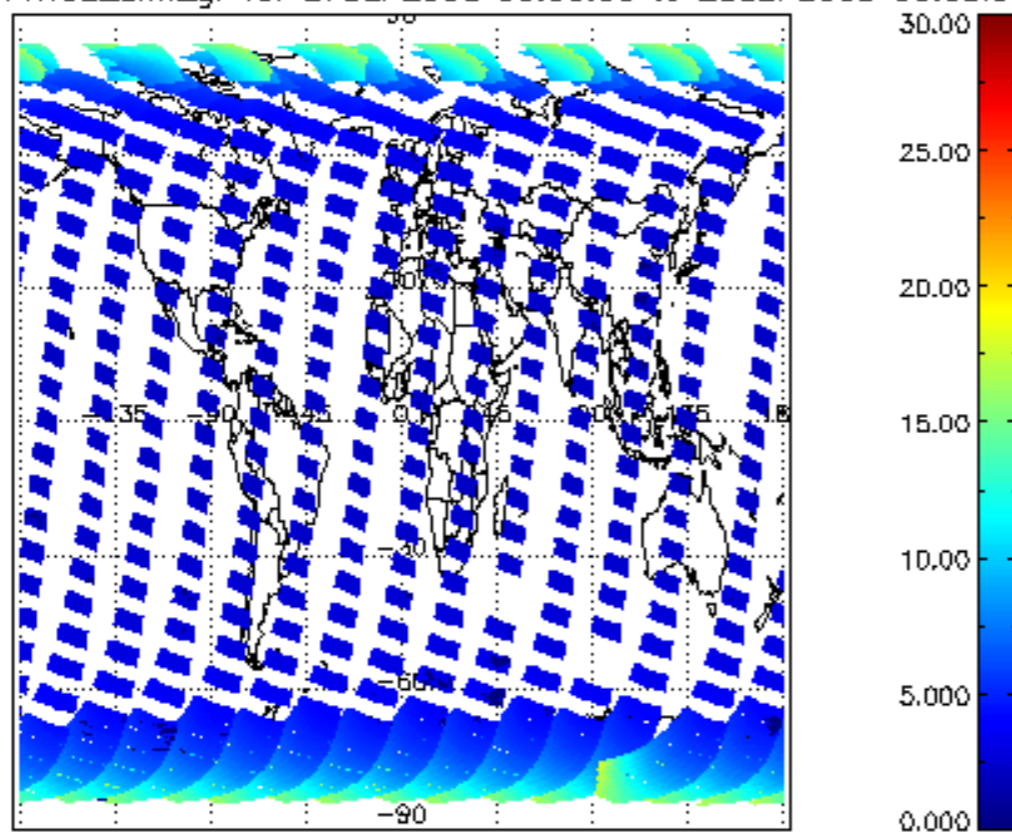
SCIOL2P_NADUV1NO2_vcd for 27SEP2008 00:00:00 to 28SEP2008 00:00:00



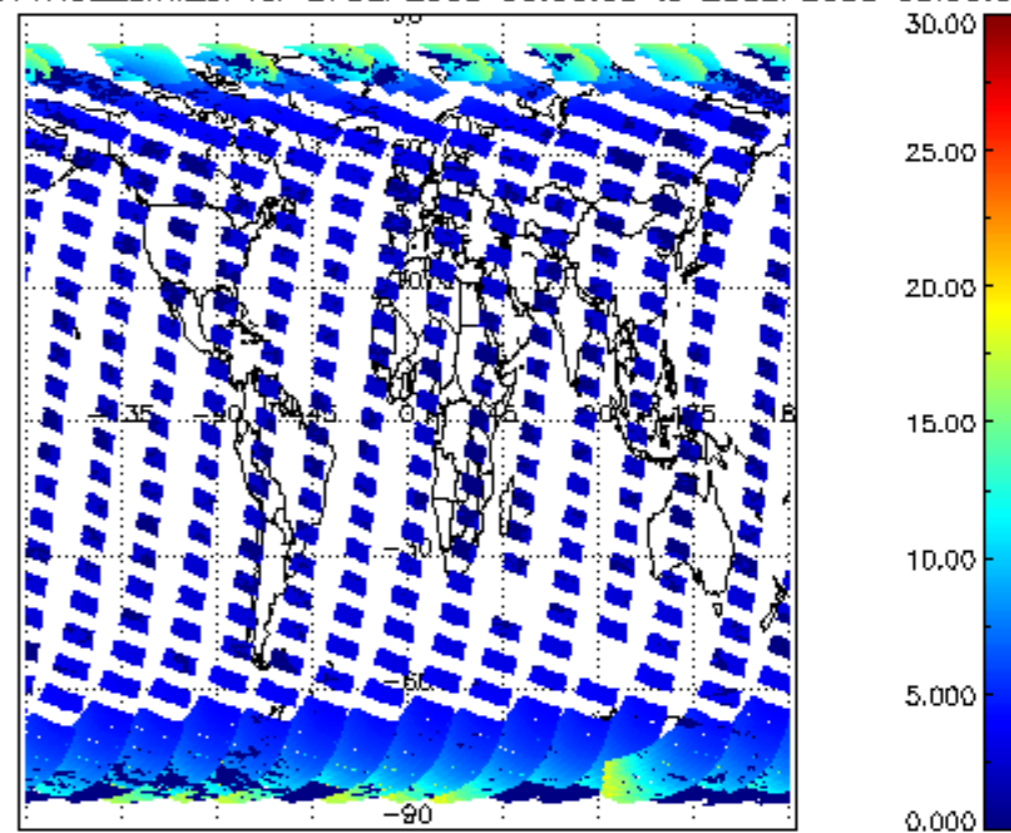
iCIOL2P_NADUV1NO2_vcd_err for 27SEP2008 00:00:00 to 28SEP2008 00:00:00



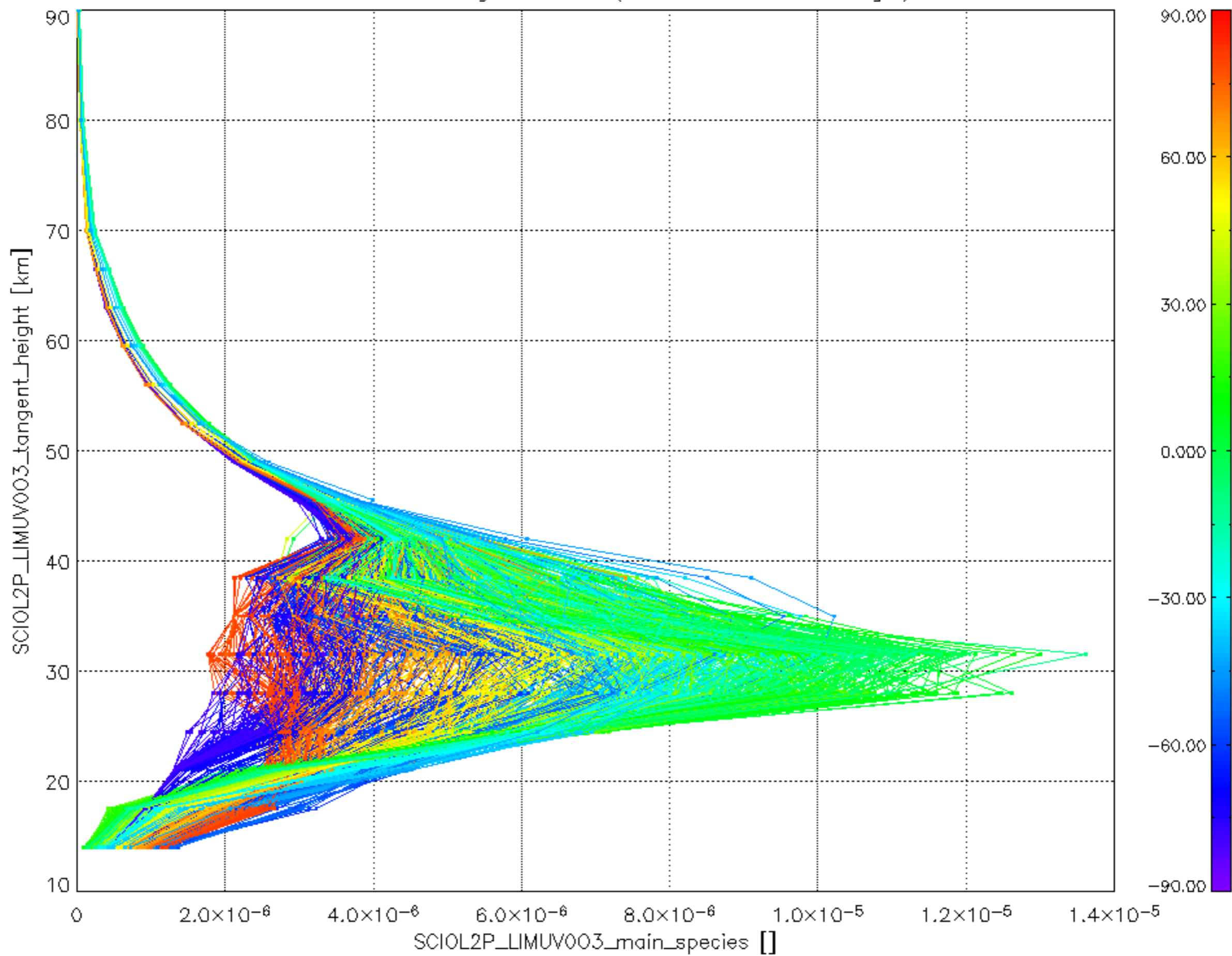
iCIOL2P_NADUV1NO2_amf_gr for 27SEP2008 00:00:00 to 28SEP2008 00:00:00



iCIOL2P_NADUV1NO2_amf_cl for 27SEP2008 00:00:00 to 28SEP2008 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).

