

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	1.4 (06-11-2007)
Time of report generation	13JUN2008 10:58:21
Data source version	SCIA-OL/3.01-R
Processing scope for products	28NOV2002 00:00:00 to 29NOV2002 00:00:00
Start time of first product within scope	28NOV2002 01:28:19
Stop time of last product within scope	28NOV2002 02:18:32
Total number of level 2 products	1
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.

#	Product name	Start time	Stop time	Prod err	Fit summary
0	SCI_OL__2PRDPA20021128_012819_000030132011_00332_03893_1655.N1	28NOV2002 01:28:19	28NOV2002 02:18:32	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: 11180

Total number of cloud data DSRs with good quality flag (=0): 11180 (100.0 %)

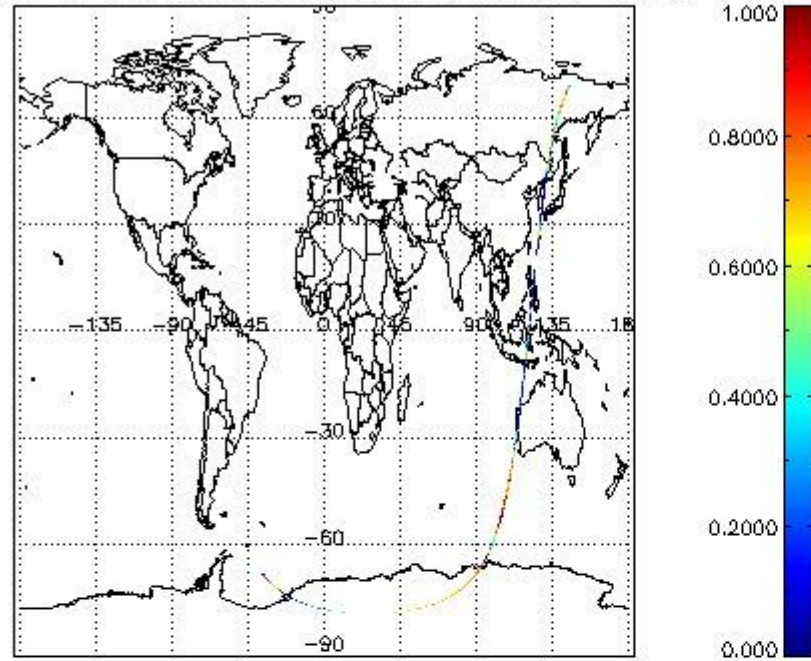
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	11180	0.0000	0.0000	0.0000	0.0000	0.0000	flag
INTEGR_TIME	11180	0.25000	0.25000	0.25000	0.25000	0.0000	s
SURFACE_PRES	11180	0.0000	0.0000	0.0000	0.0000	0.0000	hPa
CL_FRAC	11180	0.43712	0.44215	0.0000	1.0000	0.29863	-
CL_FRAC_ERR	11180	0.0000	0.0000	0.0000	0.0000	0.0000	rel. fraction
PMD_READ	11180	8.0000	8.0000	8.0000	8.0000	0.0000	
PMD_READ_CL[0]	11180	0.28730	0.0000	0.0000	8.0000	1.4788	-
PMD_READ_CL[1]	11180	0.40340	0.0000	0.0000	8.0000	1.7386	-
CL_TOP_HEIGHT	9714	4.5630	3.4679	0.0000	17.000	4.2523	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	9714	46.524	26.097	0.0000	101.00	39.434	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	11180	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	11180	11001000	11000010	11000000	11100000	2922.7	flags
AERO_ABSO_IND	11180	-0.043883	0.0000	-1.9277	3.5116	0.92043	
AERO_IND_DIAG	11180	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	11180	10100101	11000000	00000000	11000000	17087.	flags

Time and geolocation plots:

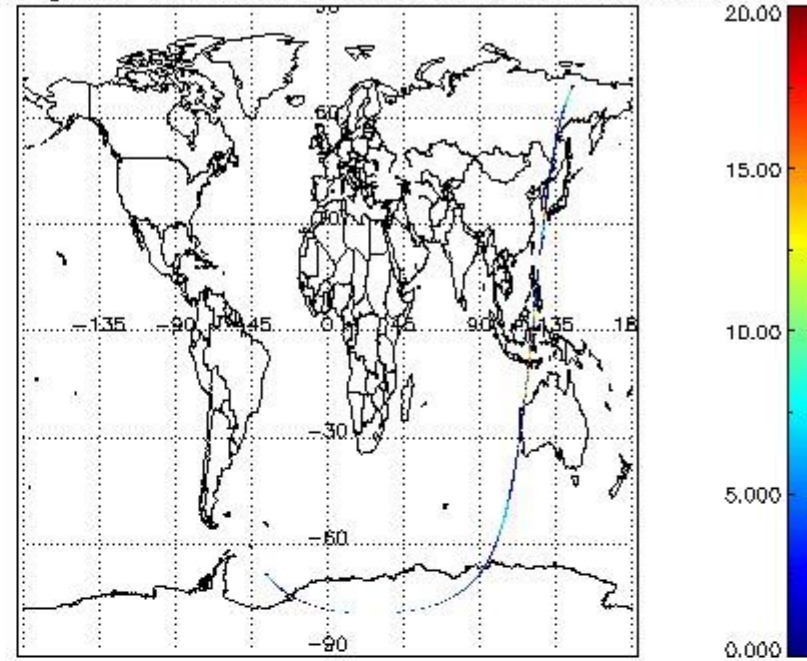
Plots are available for the following parameters:

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

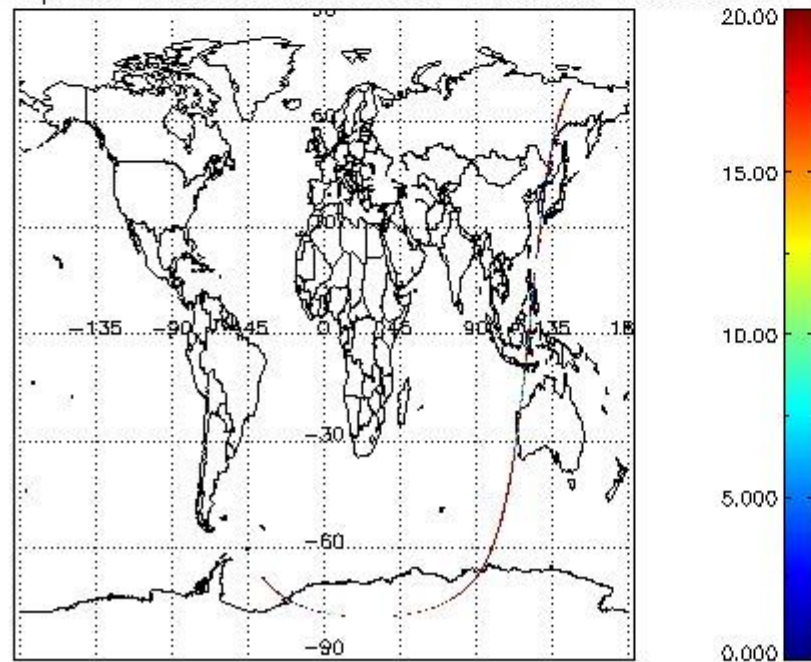
cLfrac for 28NOV2002 00:00:00 to 29NOV2002 00:00:00



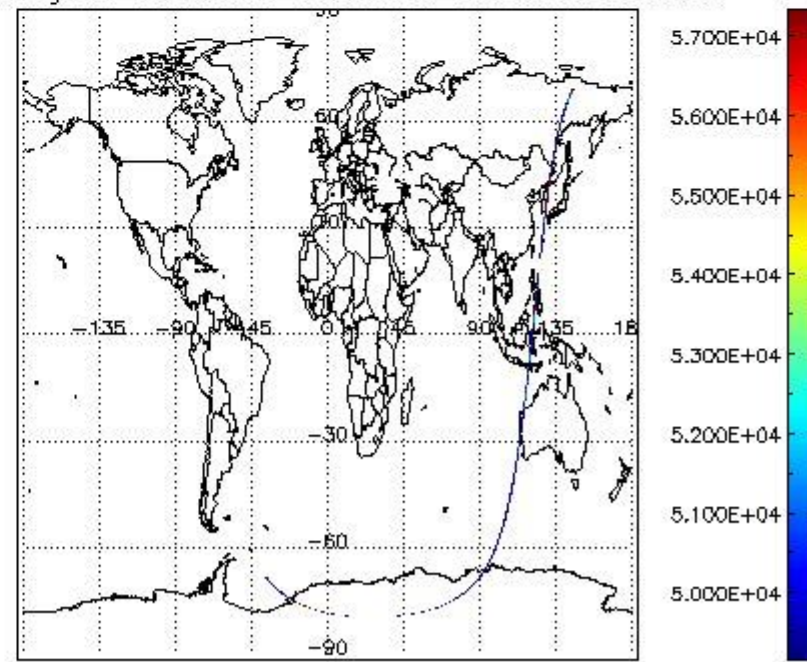
cL_top_height for 28NOV2002 00:00:00 to 29NOV2002 00:00:00



cL_opt_depth for 28NOV2002 00:00:00 to 29NOV2002 00:00:00



cloud_flags for 28NOV2002 00:00:00 to 29NOV2002 00:00:00

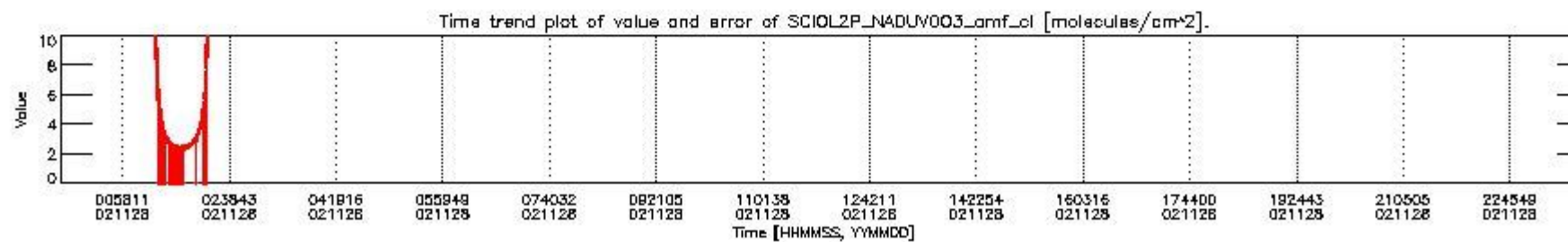
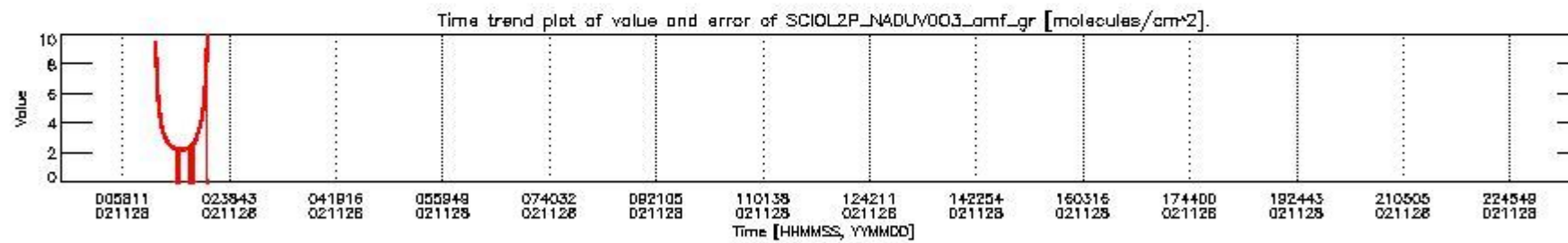
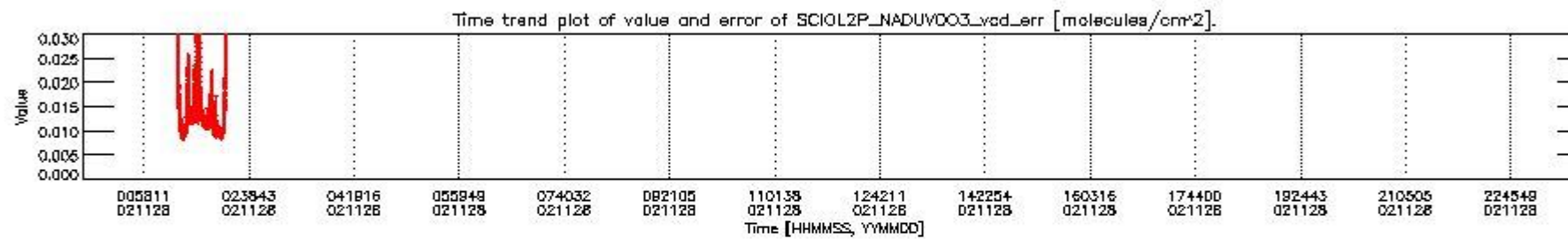
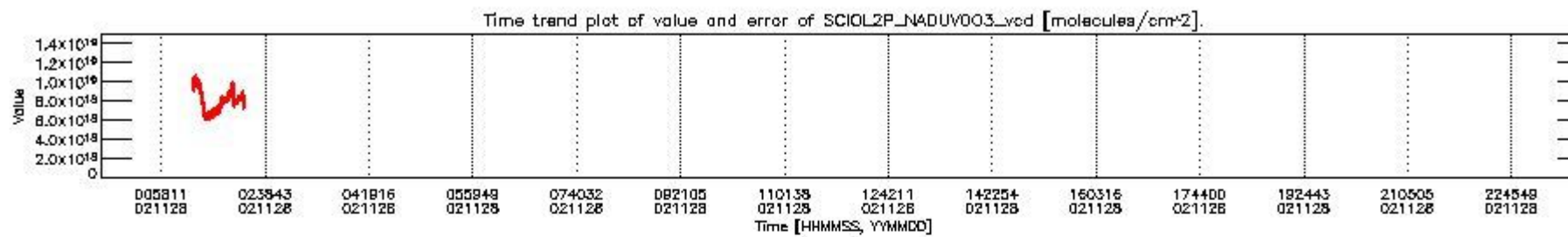


This section shows information about product quality of nadir measurements, in particular the quality of retrieved species.

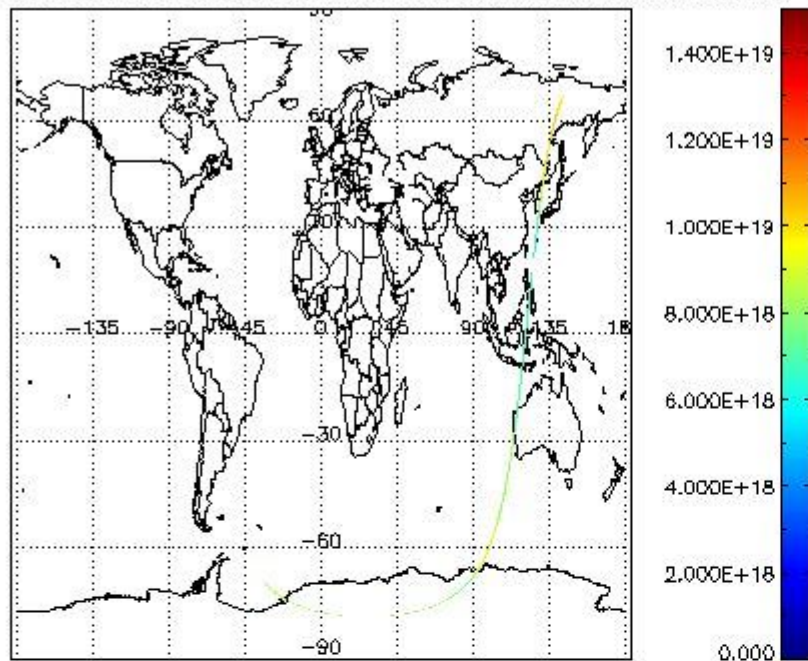
The following data items are currently included into this section:

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

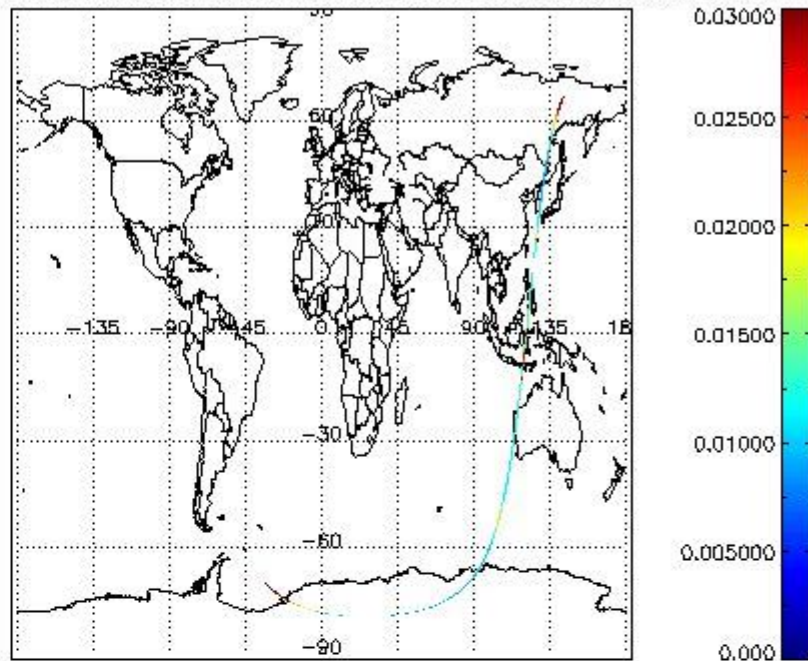
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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



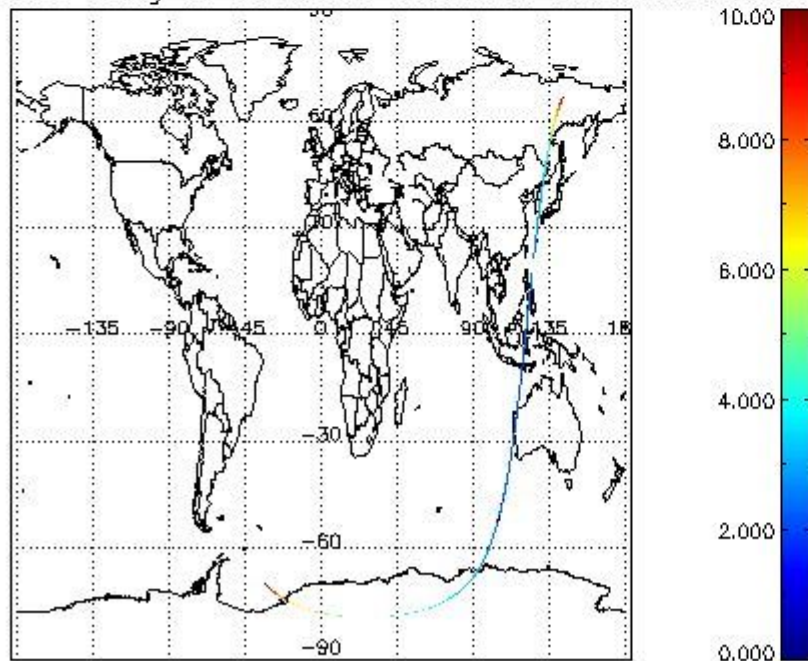
SCIOL2P_NADUV003_vcd for 28NOV2002 00:00:00 to 29NOV2002 00:00:00



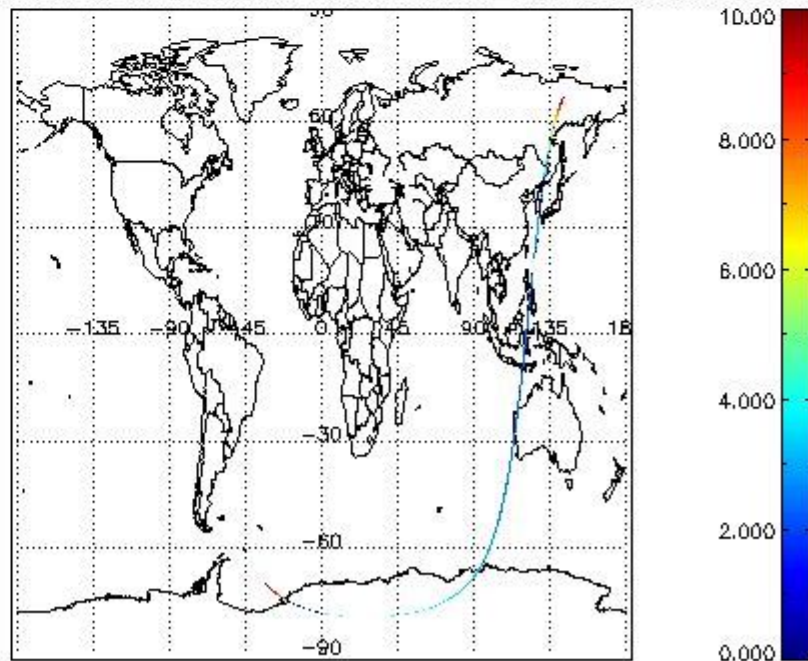
SCIOL2P_NADUV003_vcd_err for 28NOV2002 00:00:00 to 29NOV2002 00:00:00

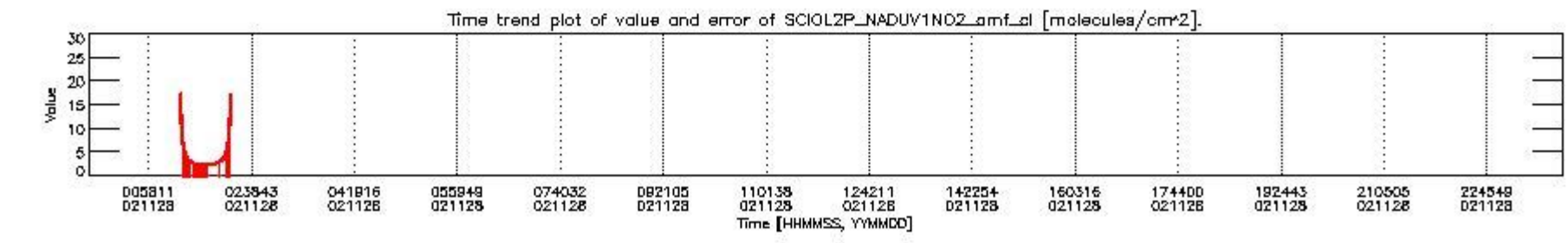
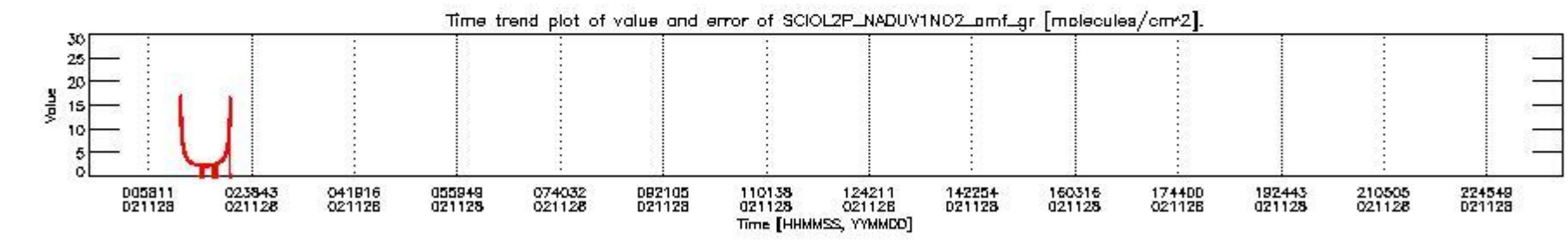
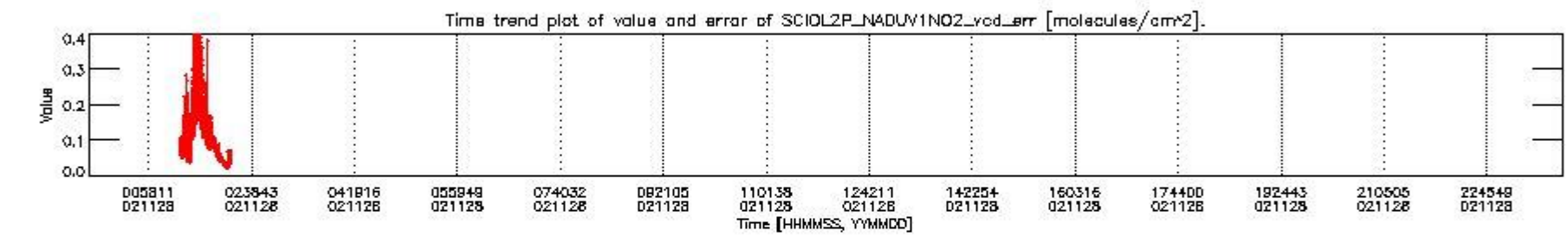
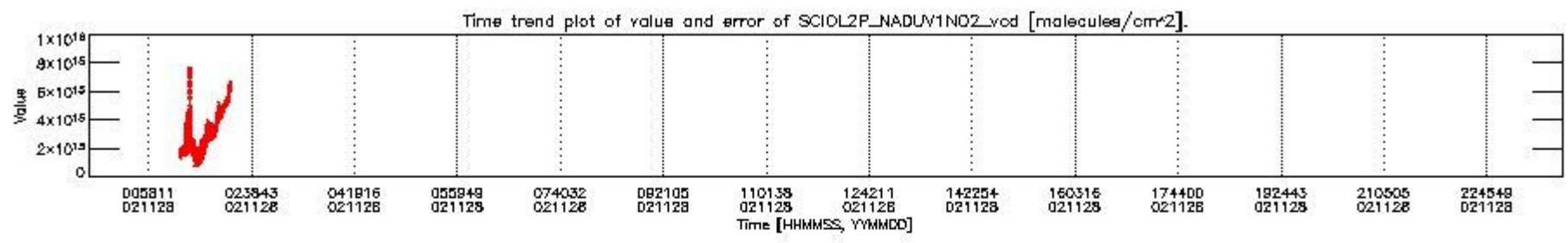


SCIOL2P_NADUV003_amf_gr for 28NOV2002 00:00:00 to 29NOV2002 00:00:00

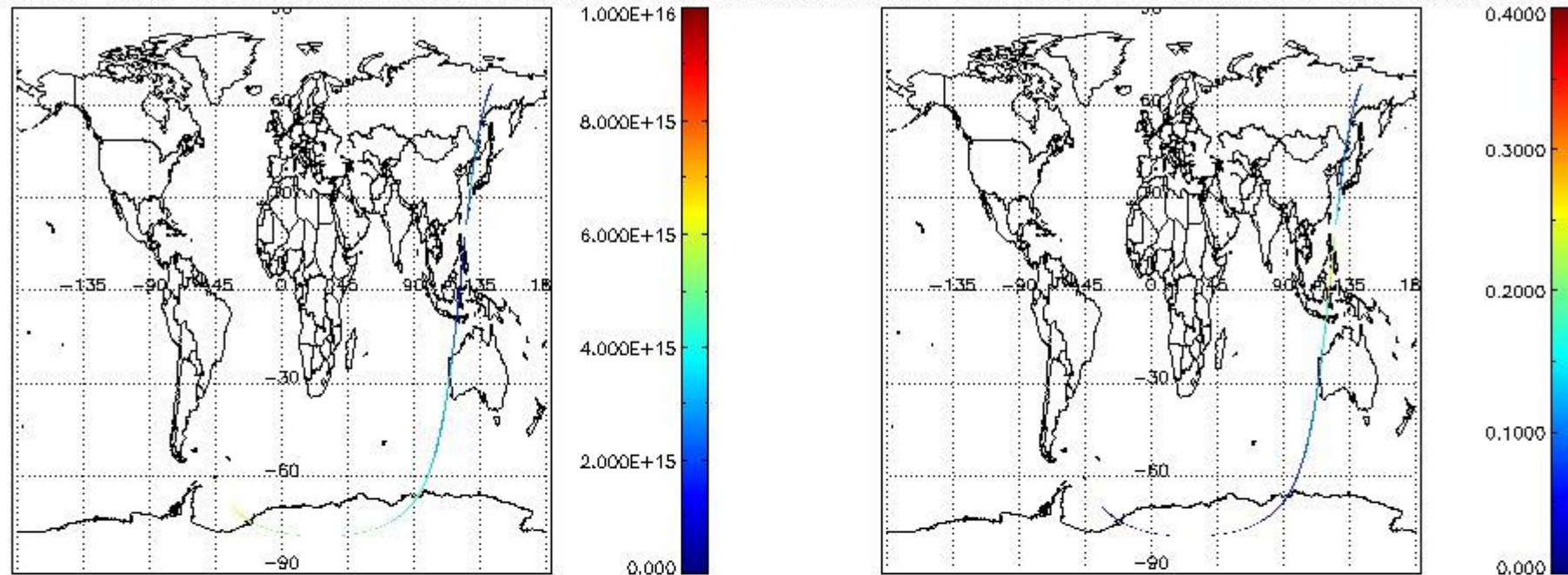


SCIOL2P_NADUV003_amf_cl for 28NOV2002 00:00:00 to 29NOV2002 00:00:00

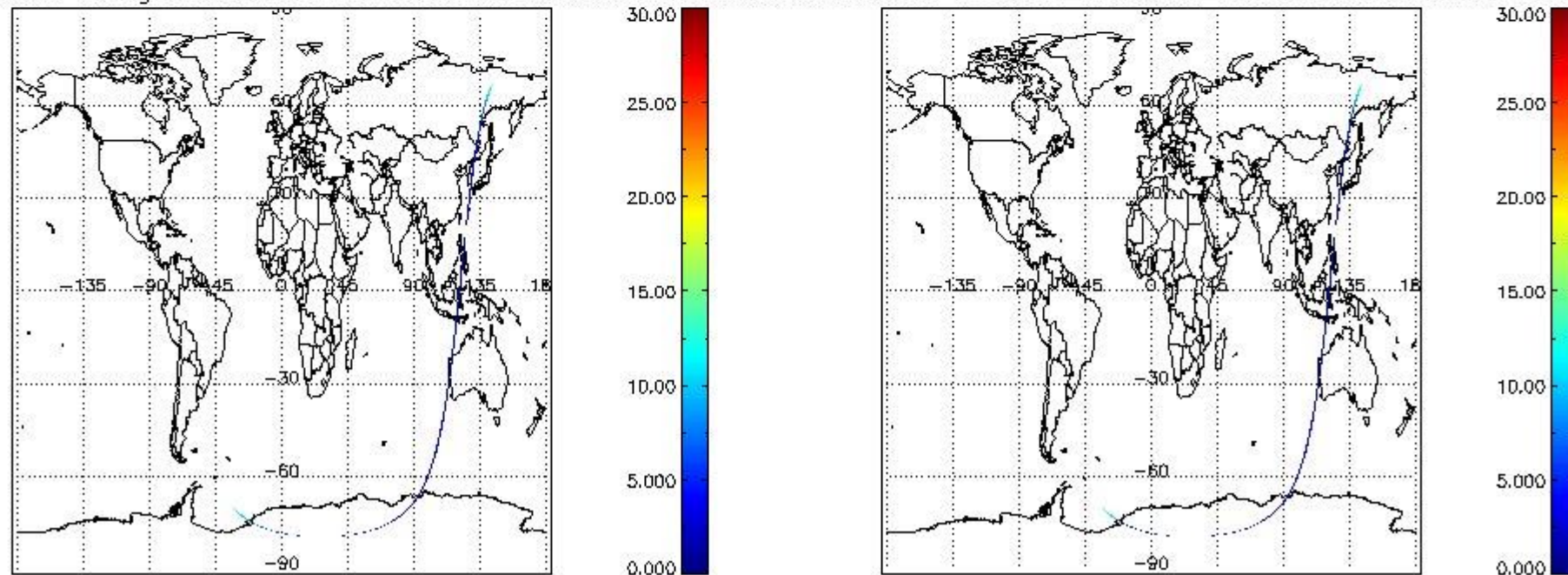




SCIOL2P_NADUV1NO2_vcd for 28NOV2002 00:00:00 to 29NOV2002 00:00:00 SCIOL2P_NADUV1NO2_vcd_err for 28NOV2002 00:00:00 to 29NOV2002 00:00:00



SCIOL2P_NADUV1NO2_amf_gr for 28NOV2002 00:00:00 to 29NOV2002 00:00:00 SCIOL2P_NADUV1NO2_amf_cl for 28NOV2002 00:00:00 to 29NOV2002 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:

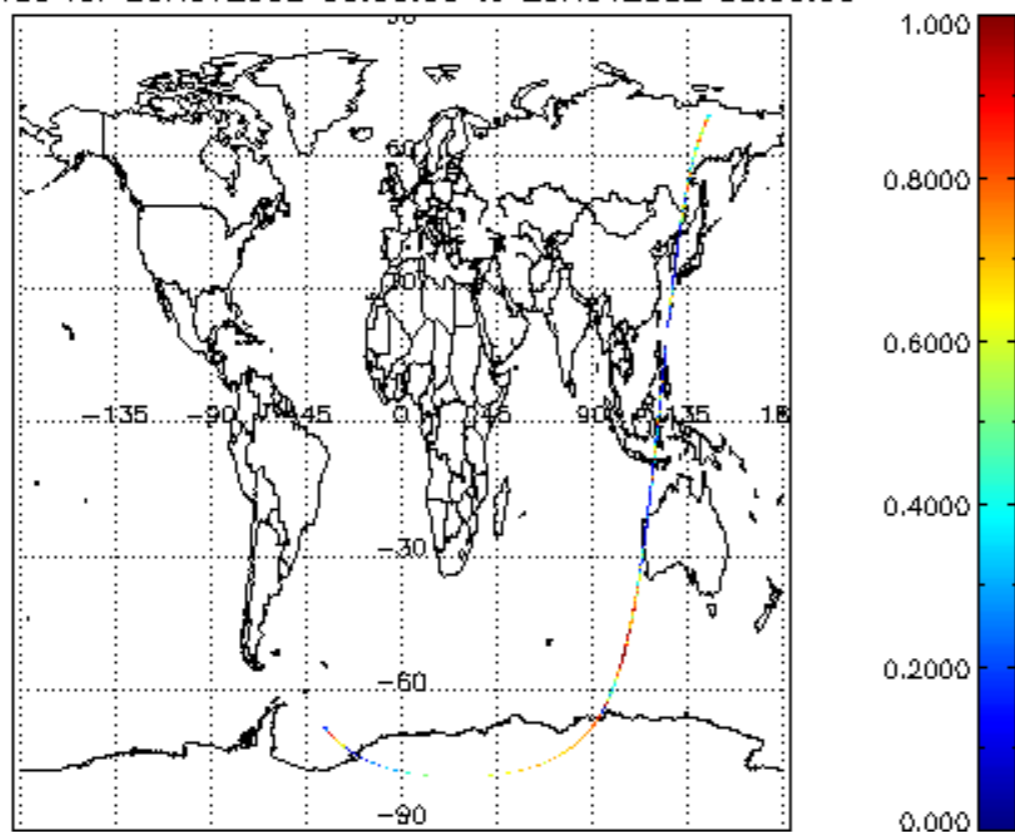
Number	Data item ID
0	SCIOL2PLIMUV003_main_species
1	SCIOL2PLIMUV1NO2_main_species

The following plots shows for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

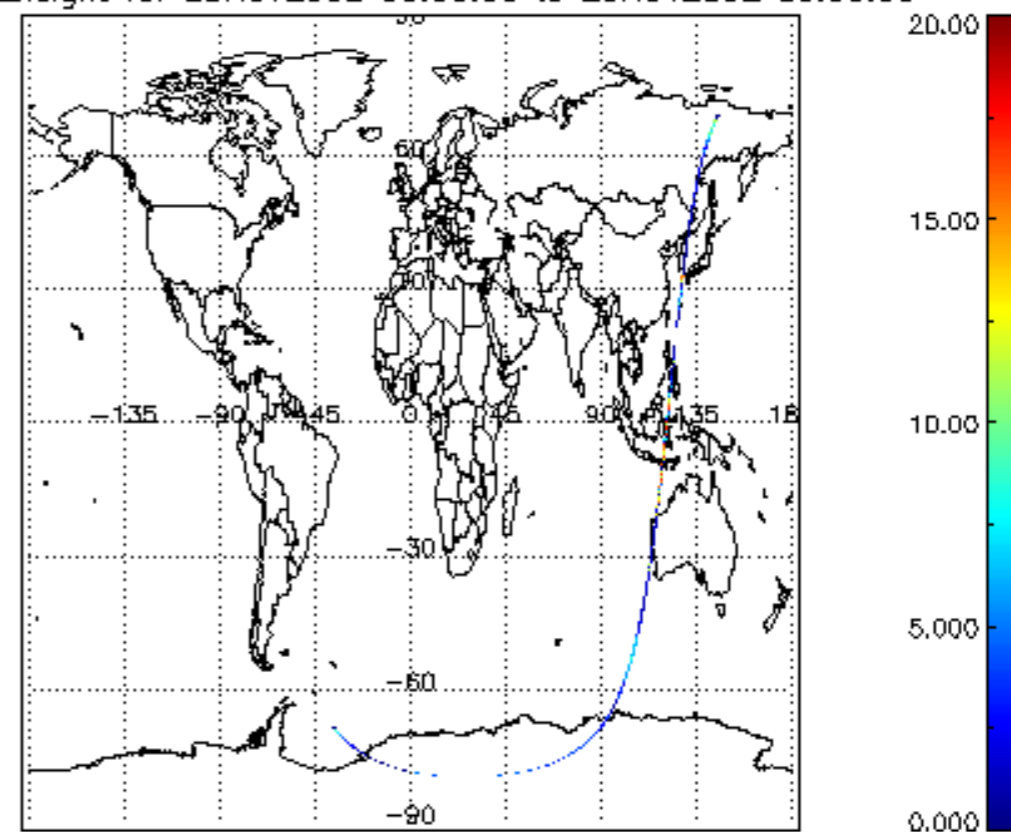
2.3 ADF monitoring

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

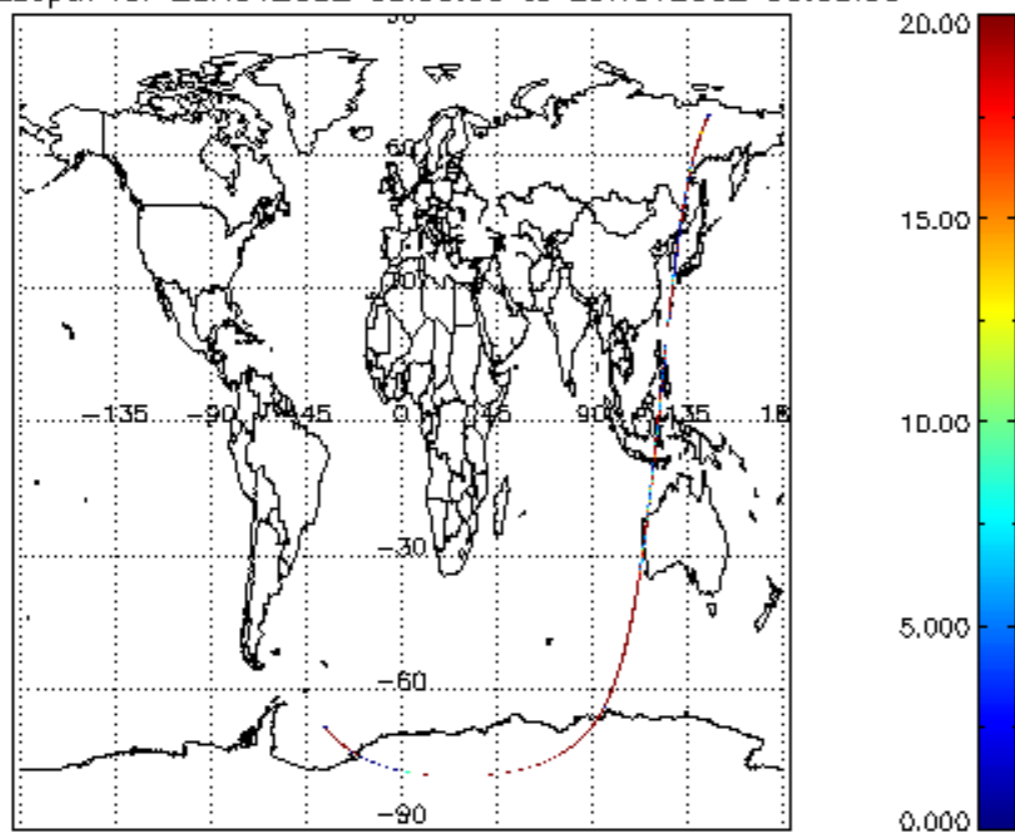
cLfrac for 28NOV2002 00:00:00 to 29NOV2002 00:00:00



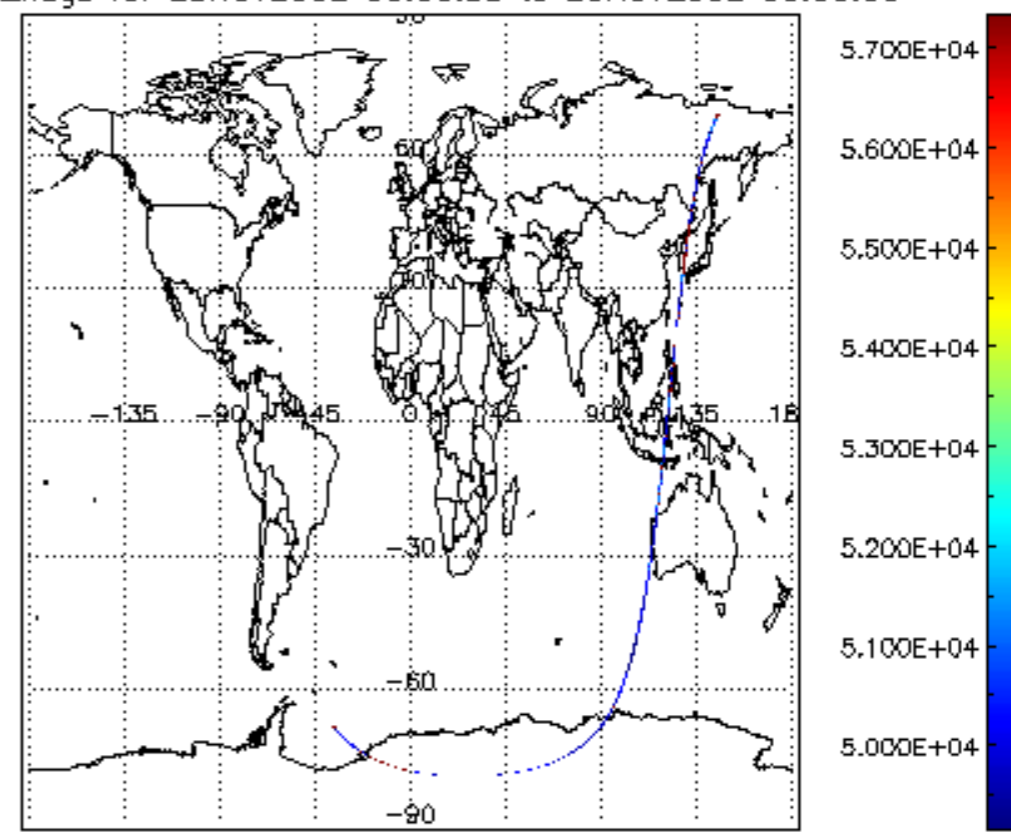
cl_top_height for 28NOV2002 00:00:00 to 29NOV2002 00:00:00

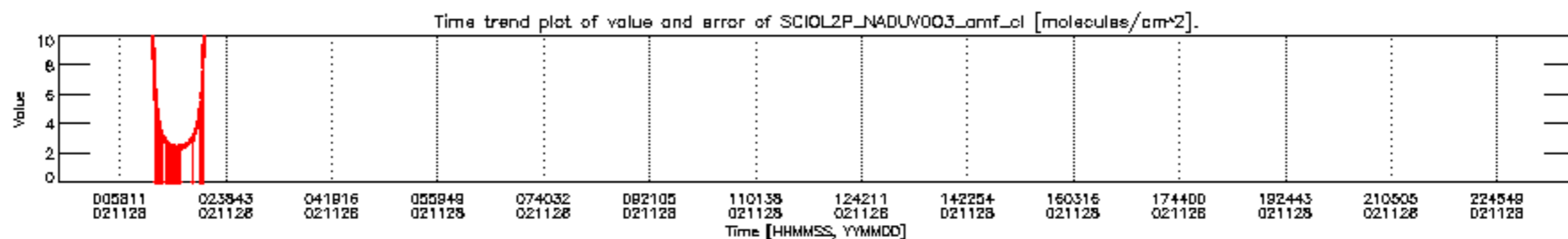
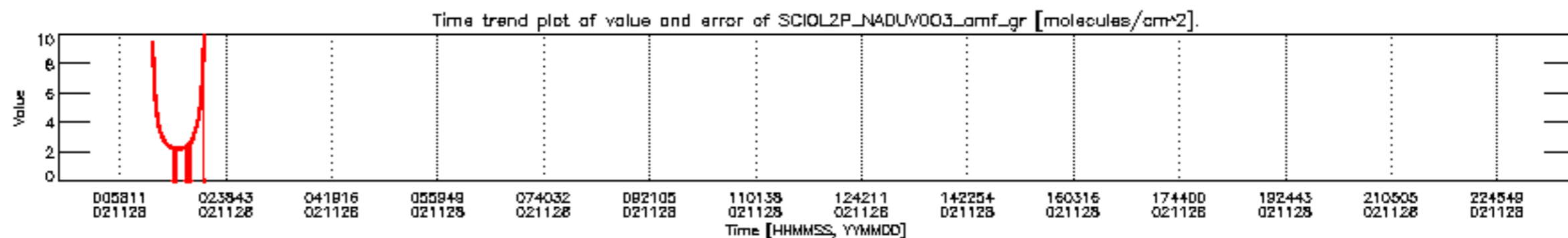
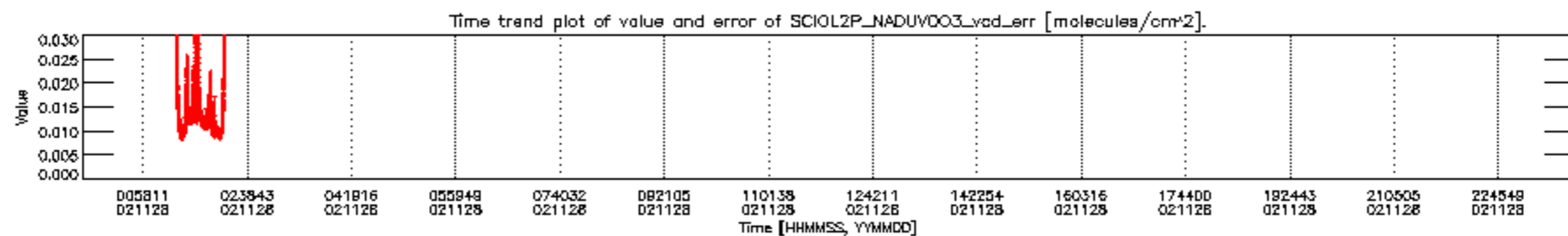
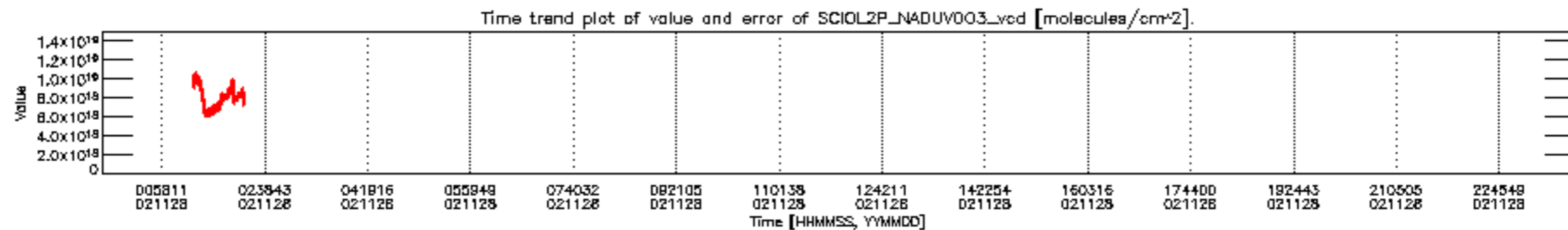


cl_opt_depth for 28NOV2002 00:00:00 to 29NOV2002 00:00:00

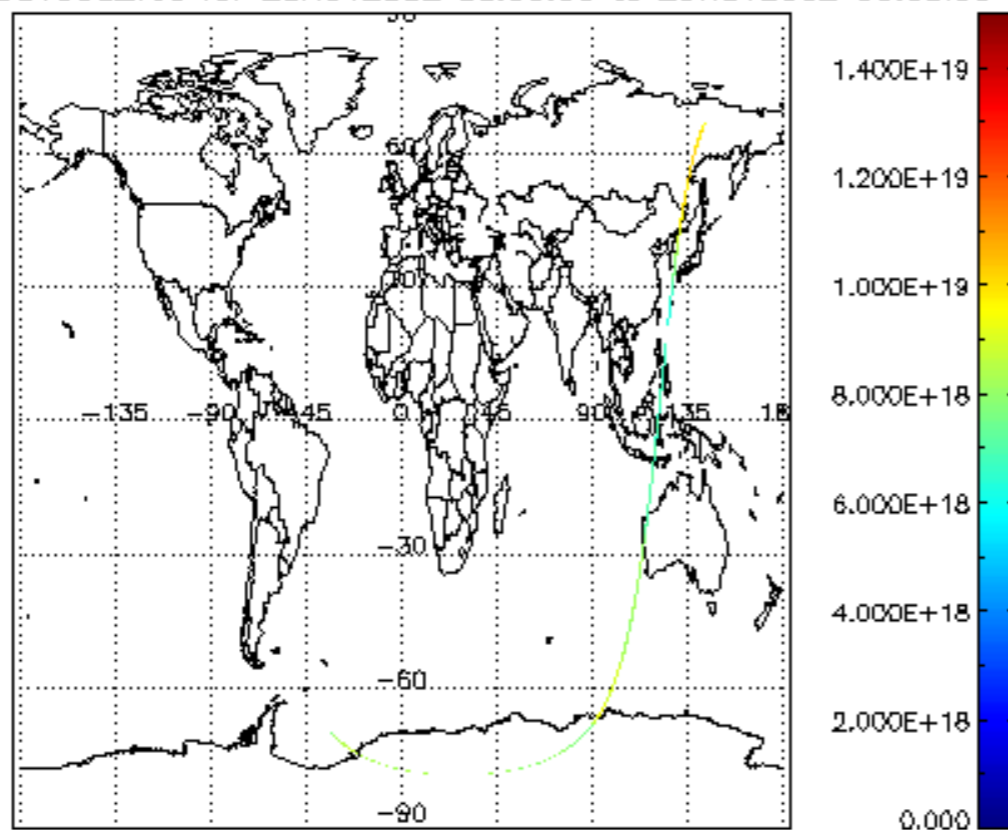


cloud_flags for 28NOV2002 00:00:00 to 29NOV2002 00:00:00

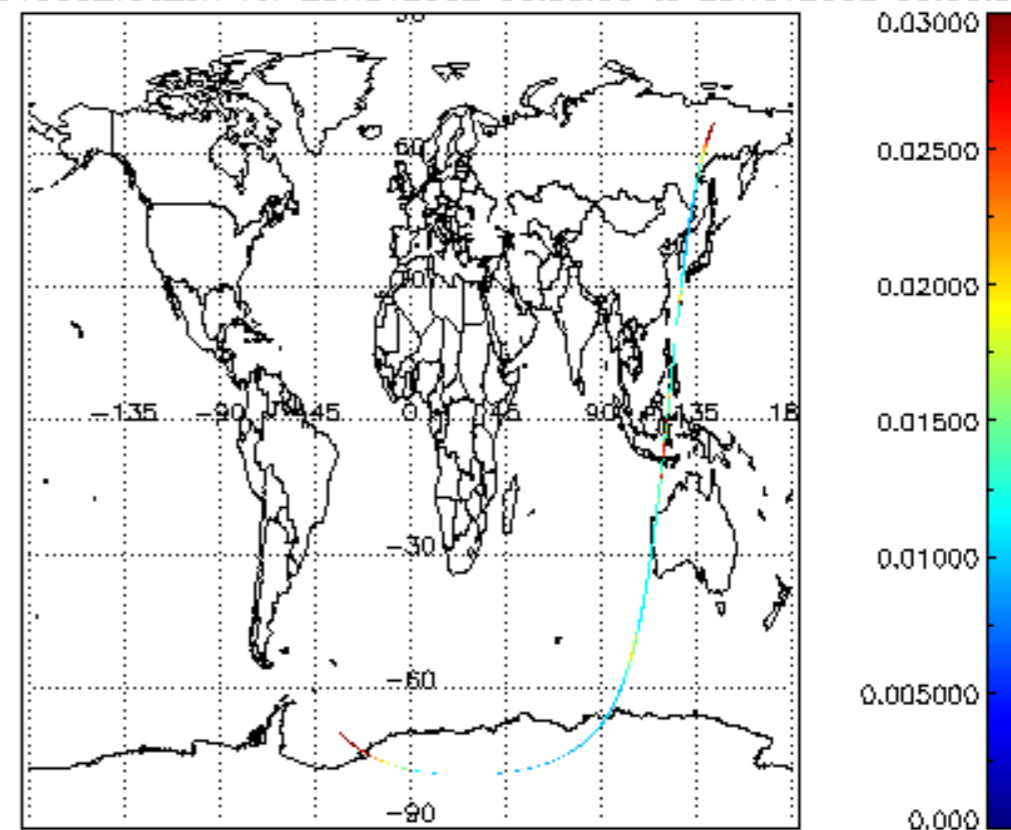




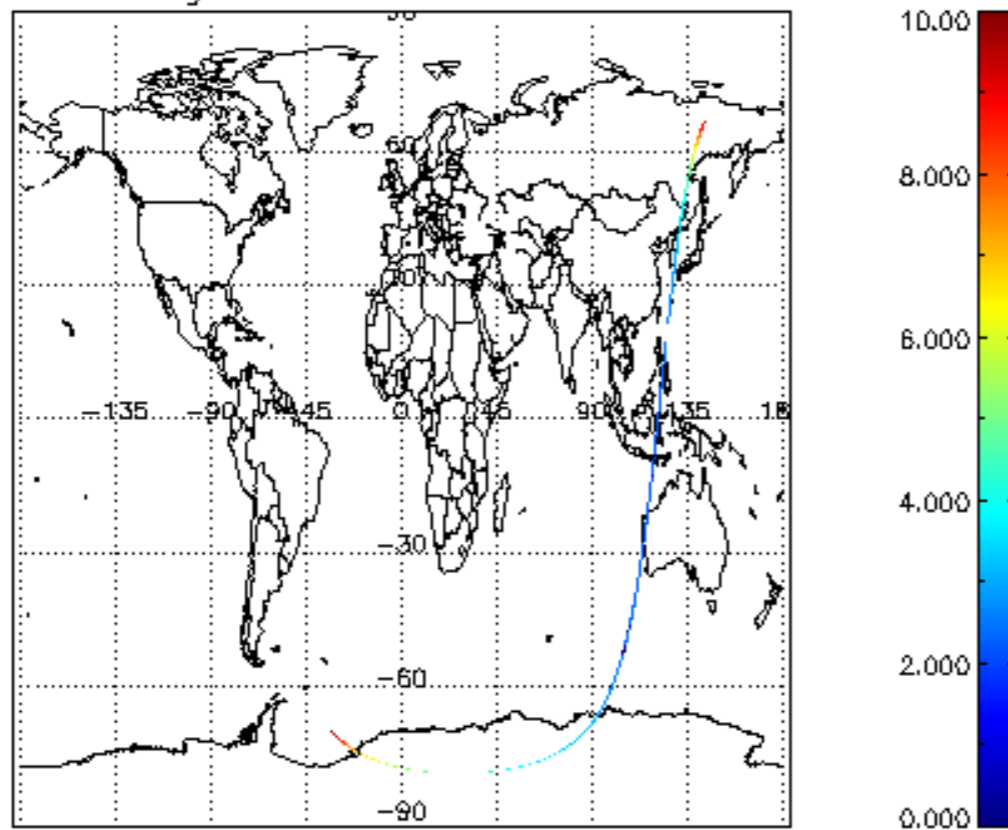
SCIOL2P_NADUV003_vcd for 28NOV2002 00:00:00 to 29NOV2002 00:00:00



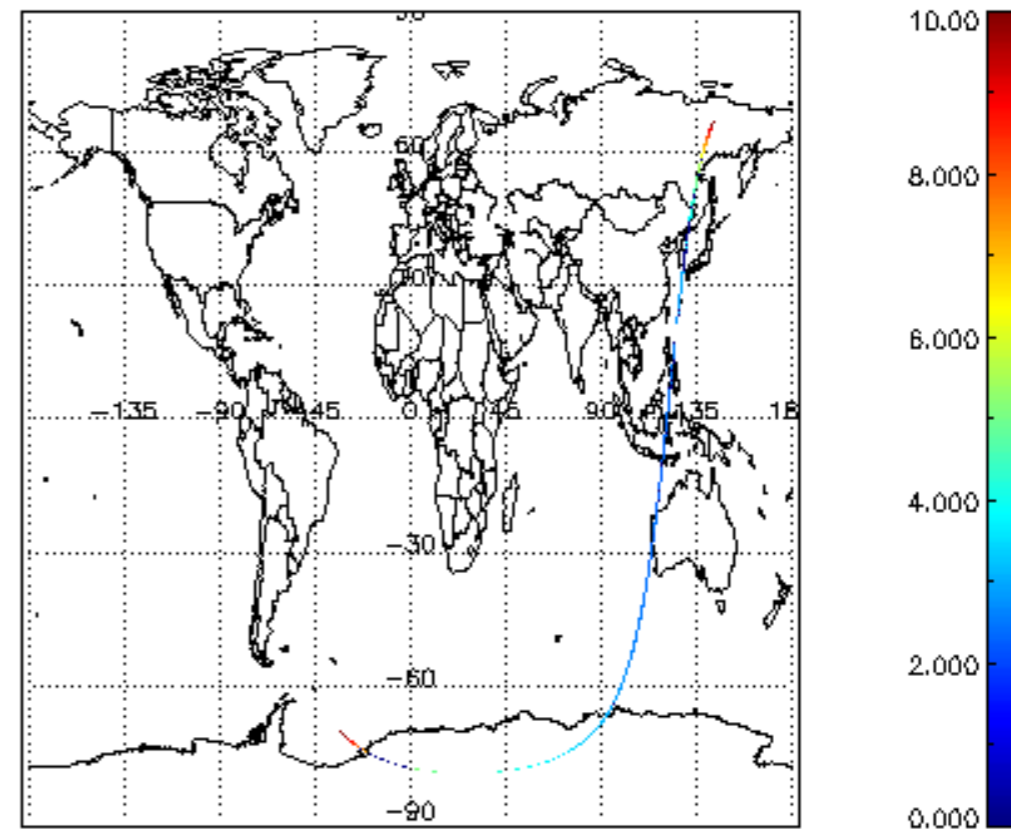
SCIOL2P_NADUV003_vcd_err for 28NOV2002 00:00:00 to 29NOV2002 00:00:00

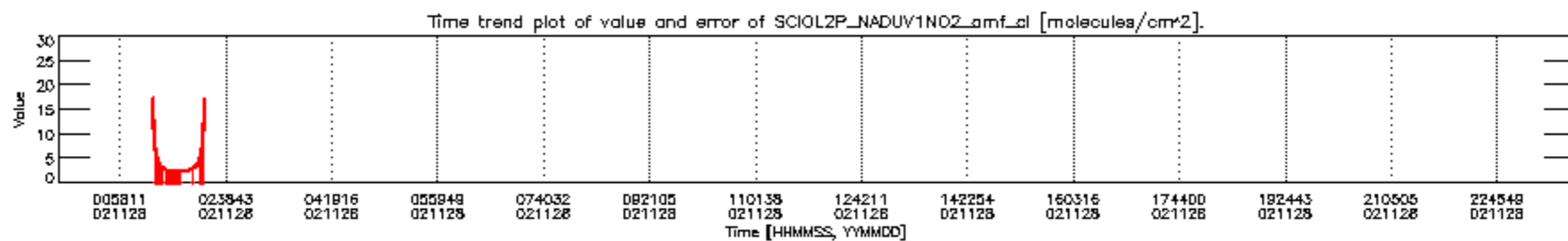
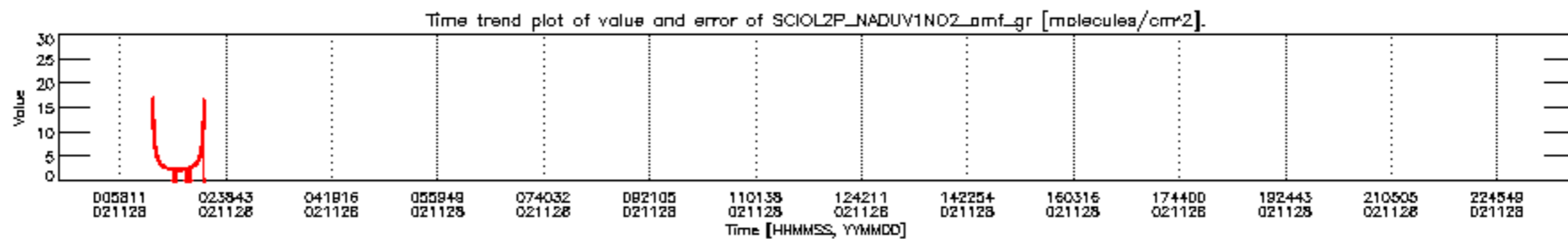
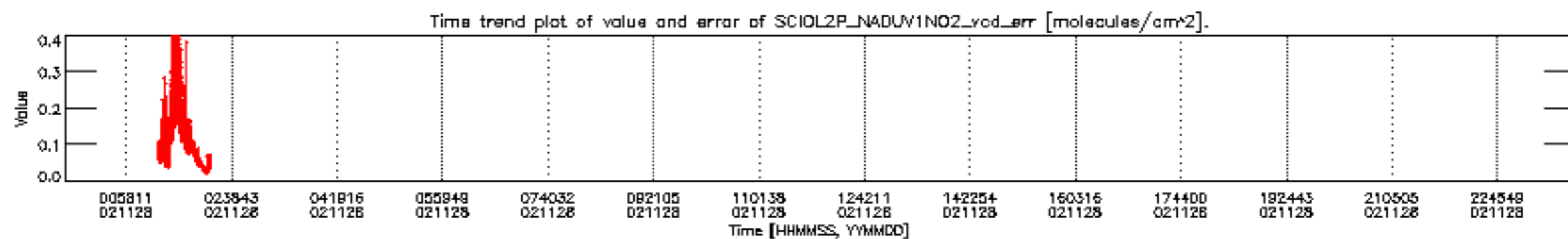
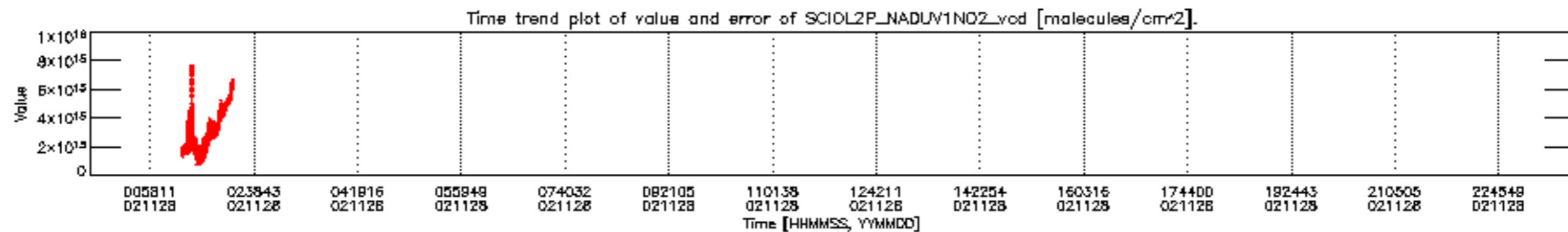


SCIOL2P_NADUV003_amf_gr for 28NOV2002 00:00:00 to 29NOV2002 00:00:00

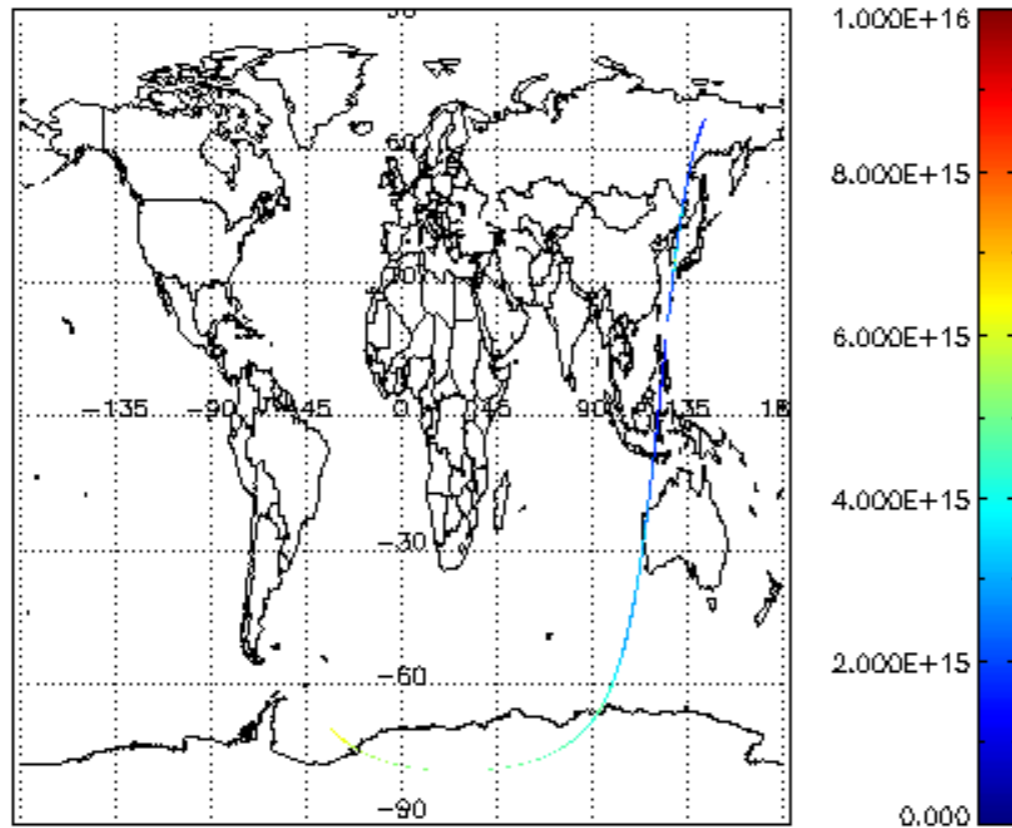


SCIOL2P_NADUV003_amf_cl for 28NOV2002 00:00:00 to 29NOV2002 00:00:00

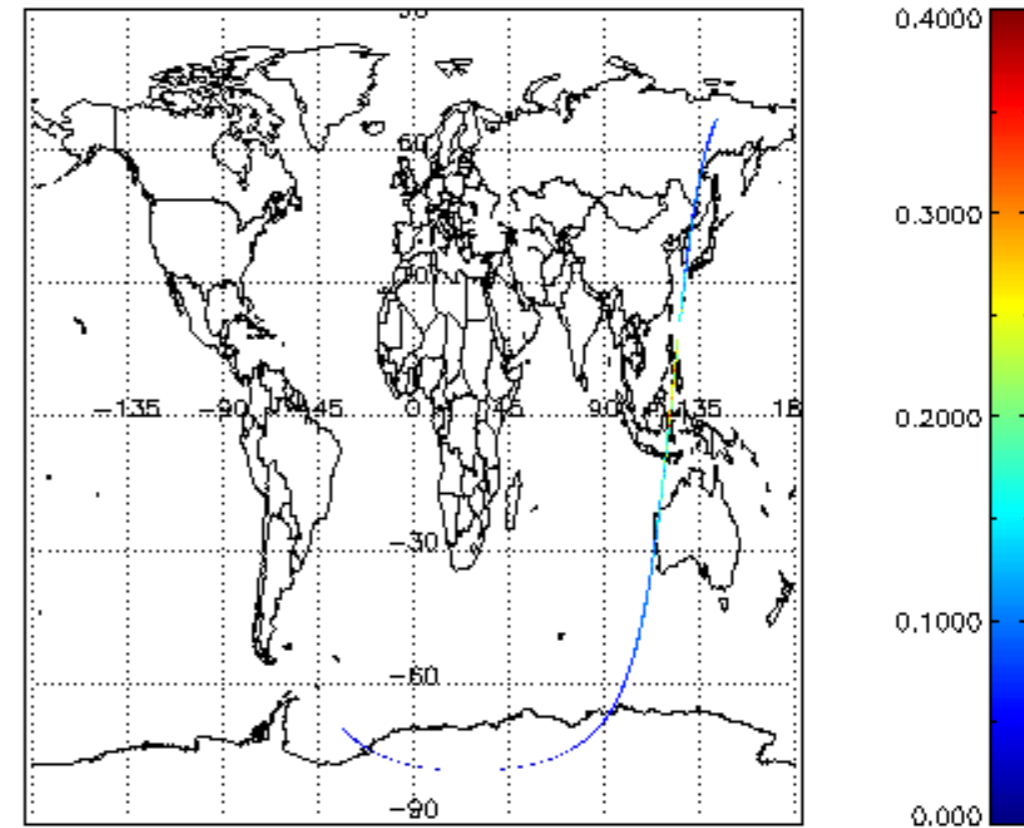




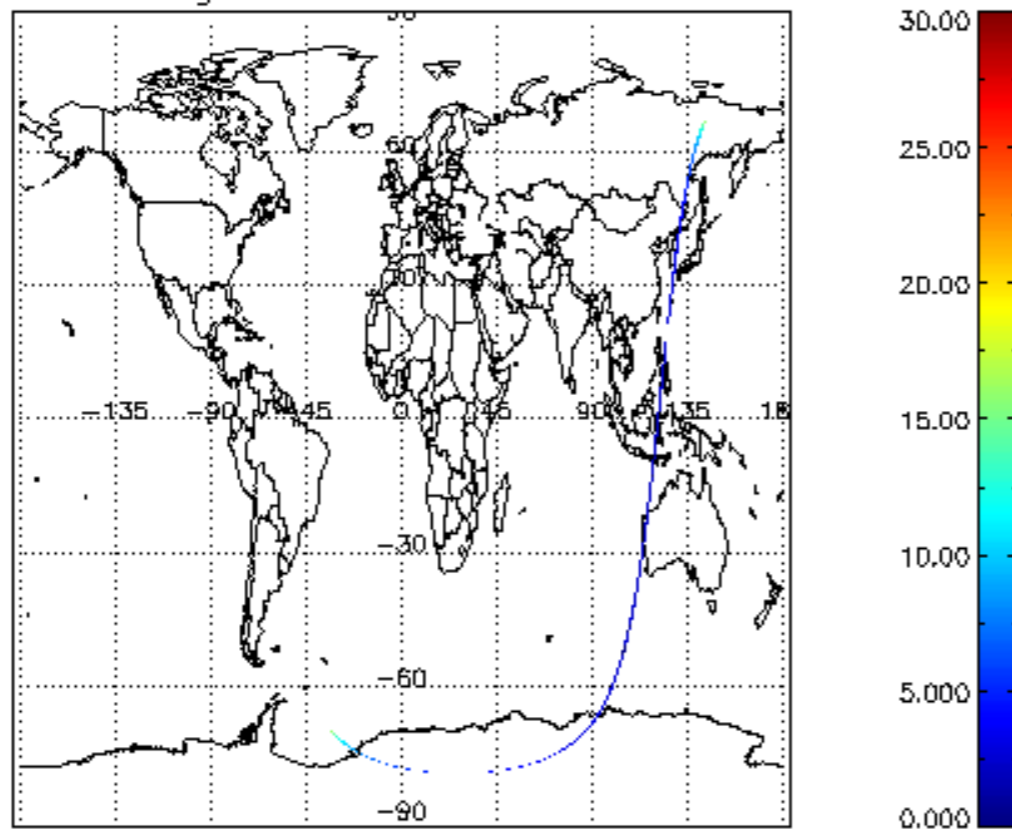
SCIOL2P_NADUV1NO2_vcd for 28NOV2002 00:00:00 to 29NOV2002 00:00:00



SCIOL2P_NADUV1NO2_vcd_err for 28NOV2002 00:00:00 to 29NOV2002 00:00:00



SCIOL2P_NADUV1NO2_amf_gr for 28NOV2002 00:00:00 to 29NOV2002 00:00:00



SCIOL2P_NADUV1NO2_amf_cl for 28NOV2002 00:00:00 to 29NOV2002 00:00:00

