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2. SCIAMACHY Daily Report for Level 2 products

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	1.13 (28-02-2011)
Time of report generation	12JUL2011 03:23:07
Data source version	SCIA-OL/5.01-U
Processing scope for products	29JUN2011 00:00:00 to 30JUN2011 00:00:00
Start time of first product within scope	29JUN2011 00:46:44
Stop time of last product within scope	29JUN2011 16:47:40
Total number of level 2 products	10
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.

Products are checked for a minimum duration of 3500.0000 seconds and a maximum duration of 6000.0000 seconds. Products failing the duration test are highlighted in bold, and their stop time is highlighted in red.

#	Product name	Start time	Stop time	Prod err	Fit summary
0	SCI_OL__2PUDPA20110629_004644_000035163104_00060_48781_5291.N1	29JUN2011 00:46:44	29JUN2011 01:45:20	0	GOOD
1	SCI_OL__2PUDPA20110629_022658_000035303104_00061_48782_5290.N1	29JUN2011 02:26:58	29JUN2011 03:25:48	0	GOOD
2	SCI_OL__2PUDPA20110629_040712_000035163104_00062_48783_5289.N1	29JUN2011 04:07:12	29JUN2011 05:05:48	0	GOOD
3	SCI_OL__2PUDPA20110629_054726_000035303104_00063_48784_5288.N1	29JUN2011 05:47:26	29JUN2011 06:46:17	0	GOOD
4	SCI_OL__2PUDPA20110629_072740_000035163104_00064_48785_5287.N1	29JUN2011 07:27:40	29JUN2011 08:26:16	0	GOOD

5	SCI_OL__2PUDPA20110629_090754_000035303104_00065_48786_5276.N1	29JUN2011 09:07:54	29JUN2011 10:06:45	0	GOOD
6	SCI_OL__2PUDPA20110629_104808_000035163104_00066_48787_5274.N1	29JUN2011 10:48:08	29JUN2011 11:46:44	0	GOOD
7	SCI_OL__2PUDPA20110629_122822_000035303104_00067_48788_5275.N1	29JUN2011 12:28:22	29JUN2011 13:27:12	0	GOOD
8	SCI_OL__2PUDPA20110629_140836_000035163104_00068_48789_5273.N1	29JUN2011 14:08:36	29JUN2011 15:07:12	0	GOOD
9	SCI_OL__2PUDPA20110629_154850_000035303104_00069_48790_5272.N1	29JUN2011 15:48:50	29JUN2011 16:47:40	0	GOOD

2.2 Product Quality Indicators

2.2.1 Cloud parameters

This section 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: 118300

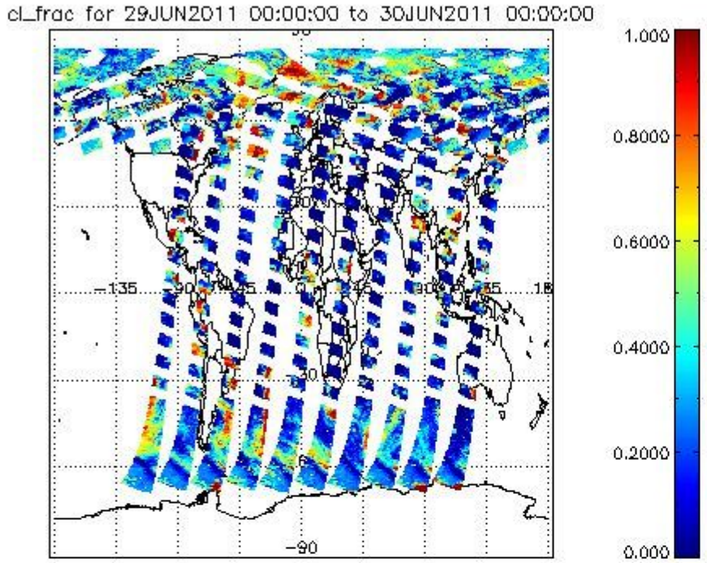
Total number of cloud data DSRs with good quality flag (=0): 118300 (100.0 %)

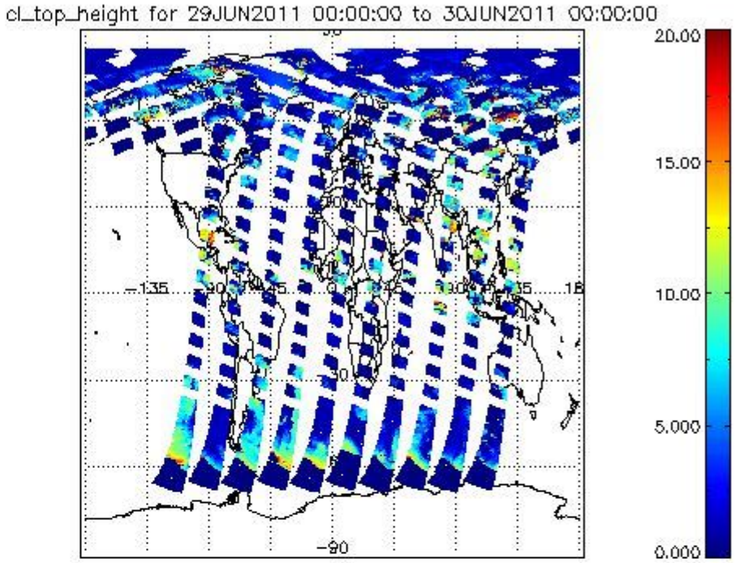
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	118300	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	118300	0.16484	0.12500	0.12500	0.25000	0.058246	s
CL_FRAC	118300	0.30570	0.25694	0.0000	1.0000	0.26713	
CL_FRAC_ERR	118300	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	118300	5.2747	4.0000	4.0000	8.0000	1.8639	
PMD_READ_CL[0]	118300	0.22038	0.0000	0.0000	8.0000	1.0242	-
PMD_READ_CL[1]	118300	1.4615	0.0000	0.0000	8.0000	2.5693	-
CL_TOP_HEIGHT	91766	3.3747	1.2952	0.0000	17.000	3.7985	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	91766	62.956	100.00	0.0000	101.00	43.475	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	118300	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	118300	11001110	11000100	11000000	11100000	3651.3	
AERO_ABSO_IND	118300	0.19041	0.0000	0.0000	15.864	0.45227	
AERO_IND_DIAG	118300	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	118300	01010010	00000000	00000000	11000000	24316.	

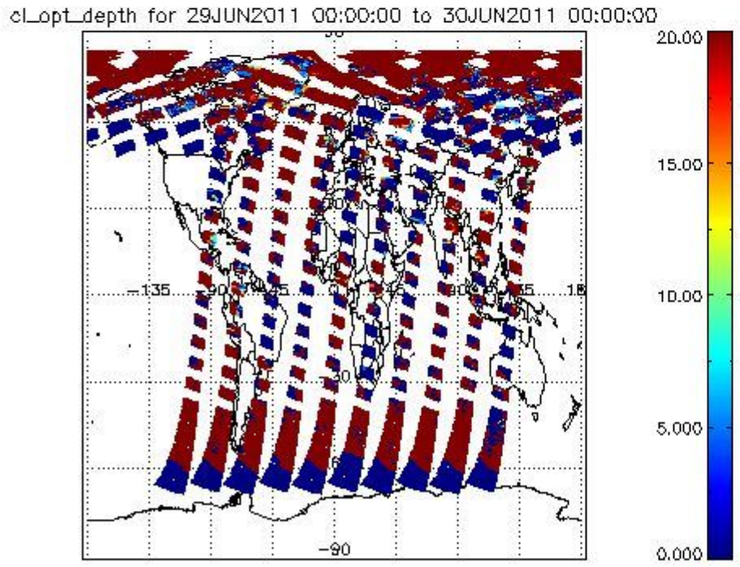
Time and geolocation plots:

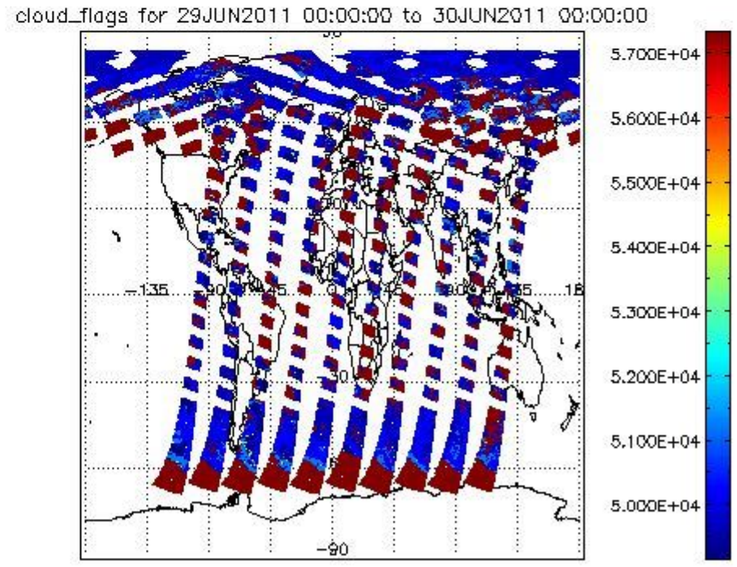
Plots are available for the following parameters:

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









2.2.2 Nadir

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

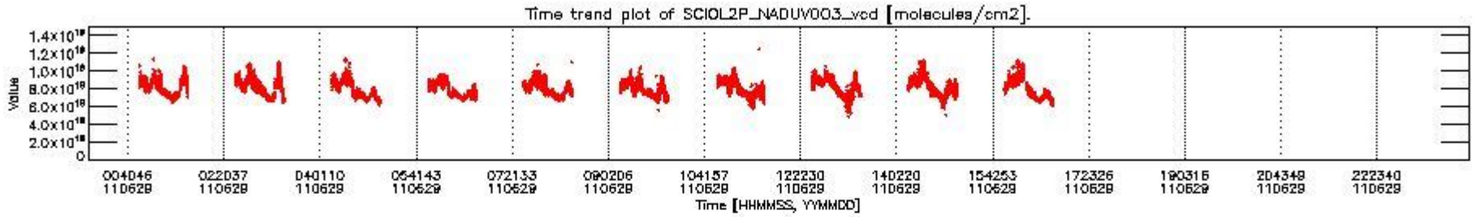
The following data items are currently included into this section:

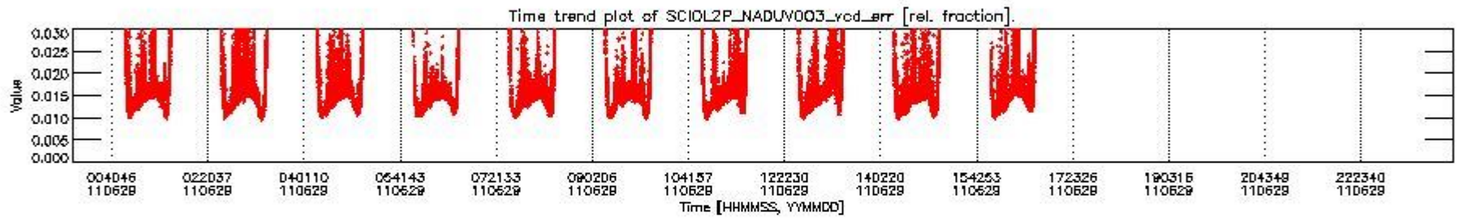
Number	Data item ID
0	SCIOL2P_NADUV0O3_vcd
1	SCIOL2P_NADUV0O3_vcd_err
2	SCIOL2P_NADUV0O3_amf_gr

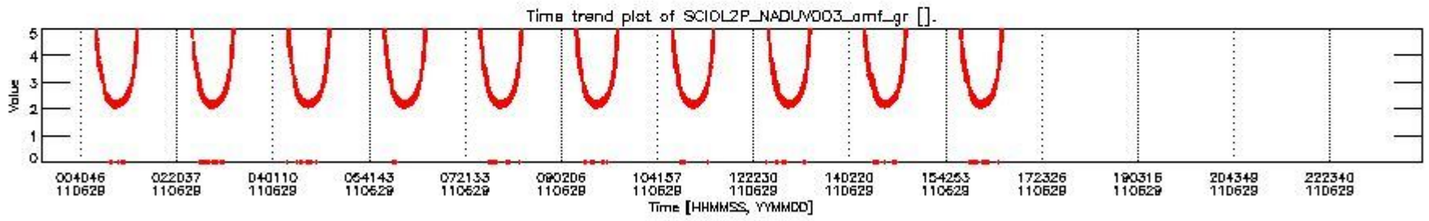
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr
15	SCIOL2P_NADUV5SO2_amf_cl
16	SCIOL2P_NADUV7SO2_vcd
17	SCIOL2P_NADUV7SO2_vcd_err
18	SCIOL2P_NADUV7SO2_amf_gr
19	SCIOL2P_NADUV7SO2_amf_cl
20	SCIOL2P_NADUV6OCL_slant_col_den
21	SCIOL2P_NADUV6OCL_err_slant_col
22	SCIOL2P_NADUV8H2O_vcd
23	SCIOL2P_NADUV8H2O_vcd_err
24	SCIOL2P_NADUV8H2O_amf_gr
25	SCIOL2P_NADIR3CO_vcd
26	SCIOL2P_NADIR3CO_vcd_err

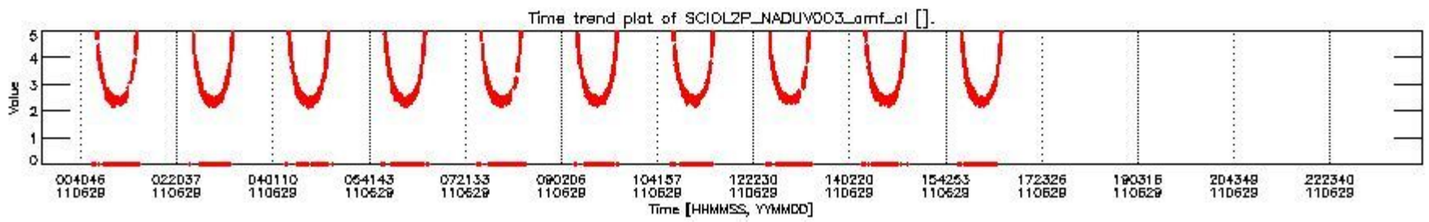
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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

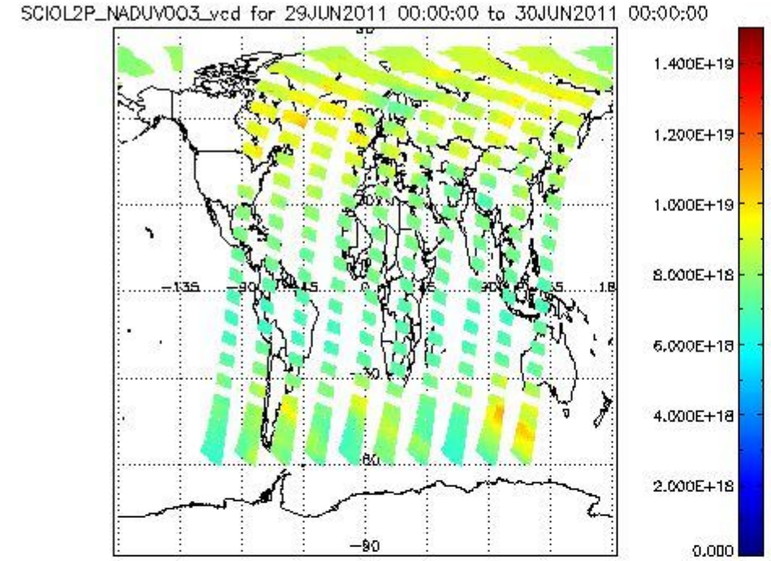
2.2.2.1 O3 (UV0)

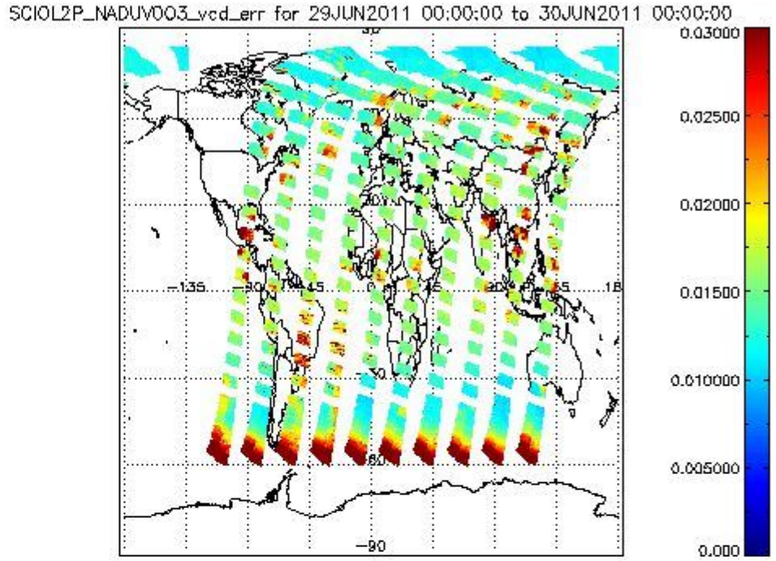

Time trend plot of SCIOL2P_NADUV003_vcd [molecules/cm2].
Value
1.4x10^18
1.2x10^18
1.0x10^18
8.0x10^17
6.0x10^17
4.0x10^17
2.0x10^17
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

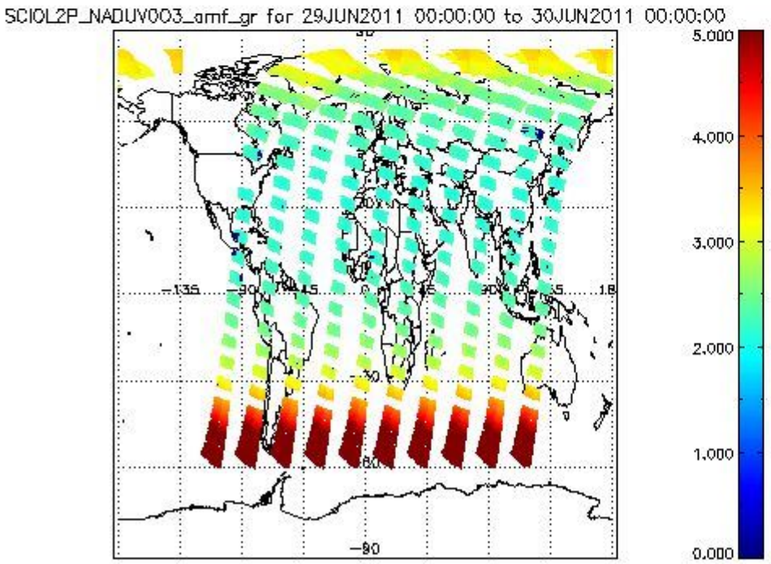

Time trend plot of SCIOL2P_NADUV003_vcd_err [rel. fraction].
Value
0.030
0.025
0.020
0.015
0.010
0.005
0.000
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

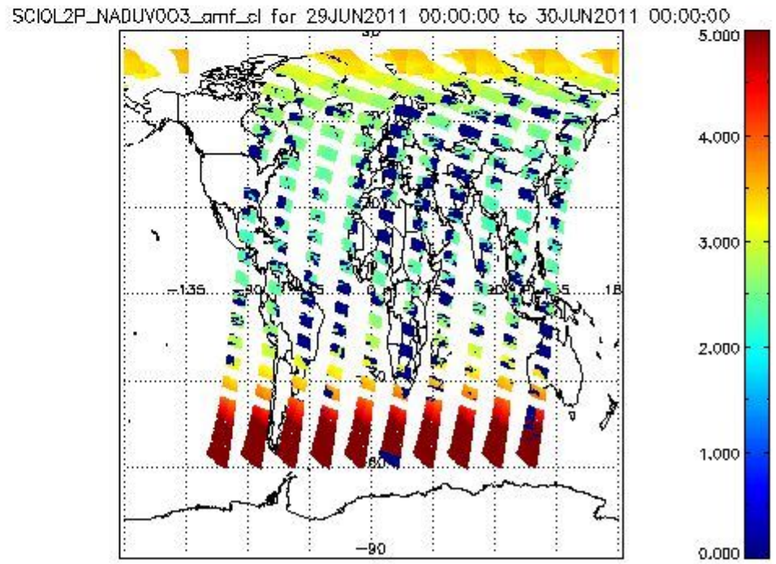

Time trend plot of SCIOL2P_NADUV003_amf_gr [].
Value
5
4
3
2
1
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV003_amf_cl [].
Value
5
4
3
2
1
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

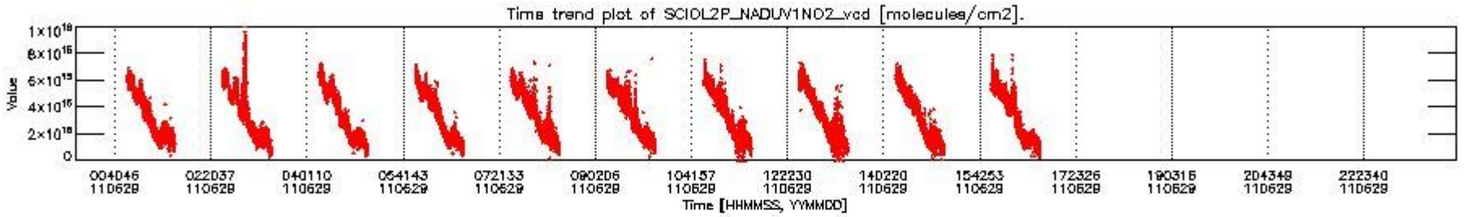

SCIOL2P_NADUV003_vcd for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
1.400E+19
1.200E+19
1.000E+19
8.000E+18
6.000E+18
4.000E+18
2.000E+18
0.000

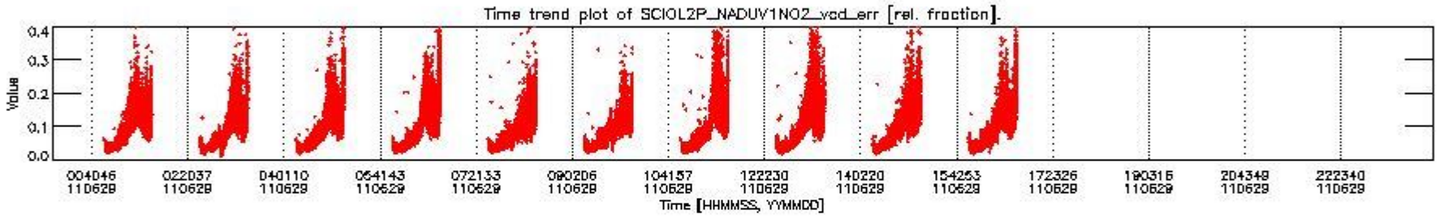

SCIOL2P_NADUV003_vcd_err for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
0.03000
0.02500
0.02000
0.01500
0.010000
0.005000
0.000

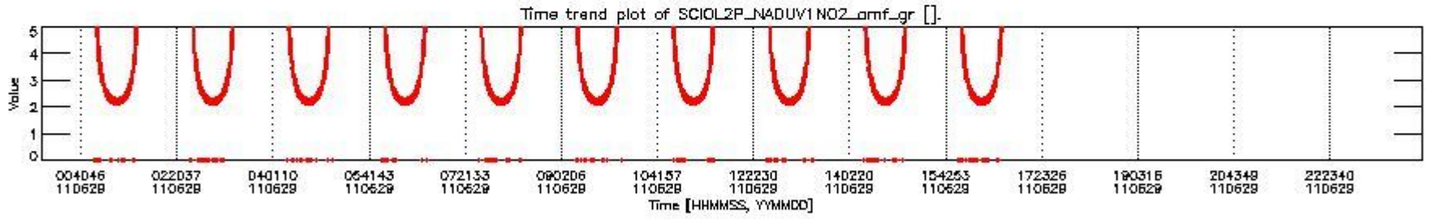

SCIOL2P_NADUV003_amf_gr for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000

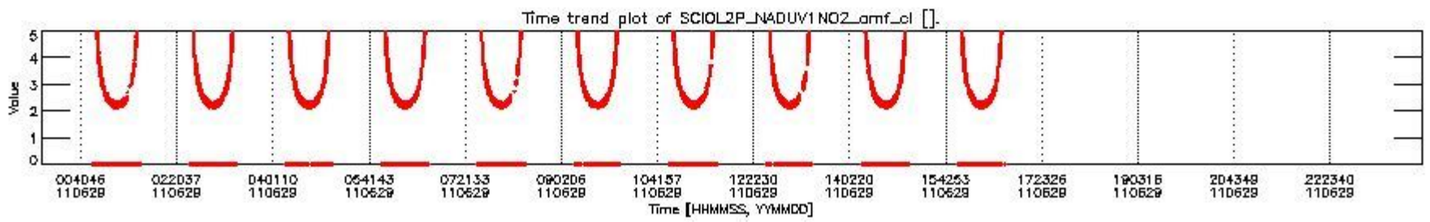

SCIOL2P_NADUV003_amf_cl for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000

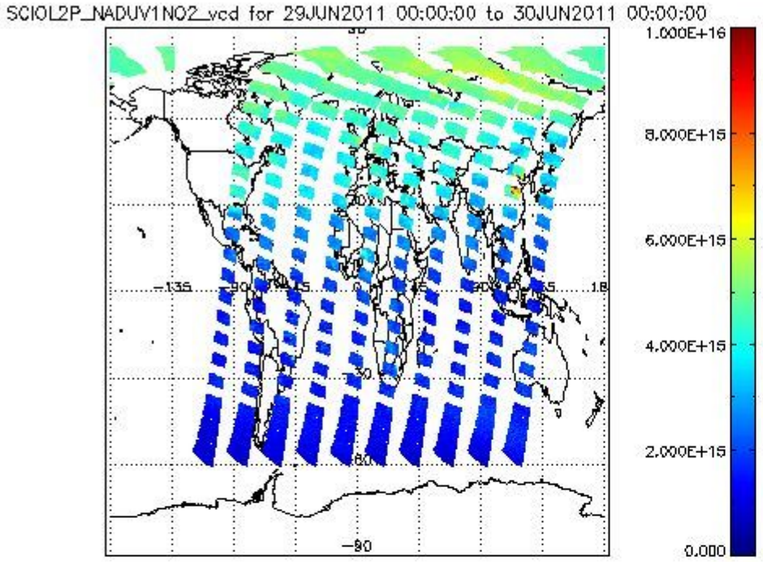
2.2.2.2 NO2 (UV1)

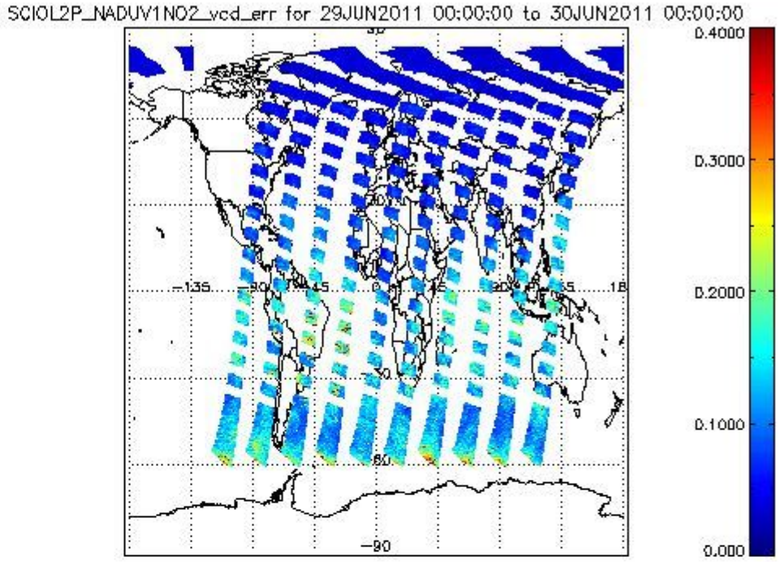

Time trend plot of SCIOL2P_NADUV1NO2_vcd [molecules/cm2].
Value
Time [HHMMSS, YYMMDD]

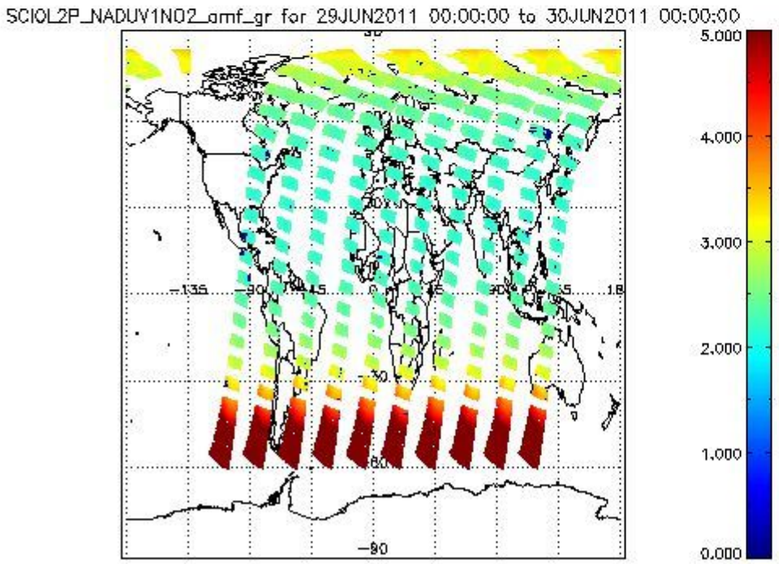

Time trend plot of SCIOL2P_NADUV1NO2_vcd_err [rel. fraction].
Value
Time [HHMMSS, YYMMDD]

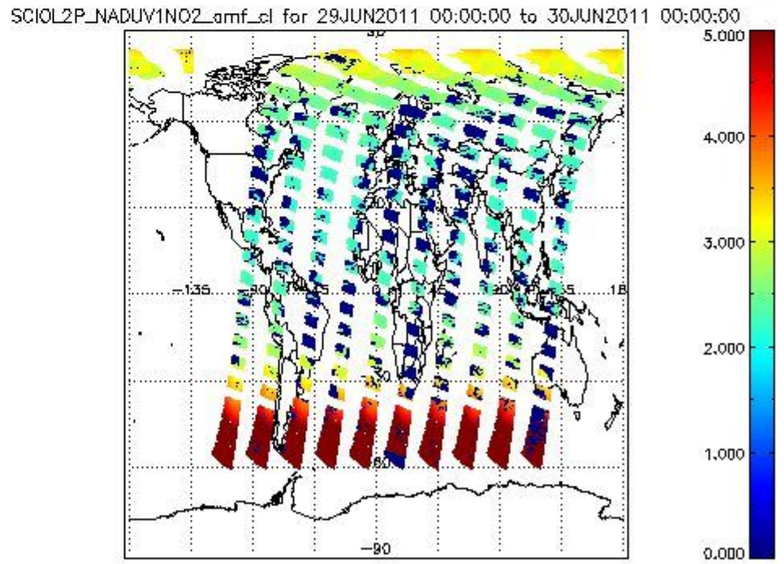

Time trend plot of SCIOL2P_NADUV1NO2_amf_gr [].
Value
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV1NO2_amf_cl [].
Value
Time [HHMMSS, YYMMDD]

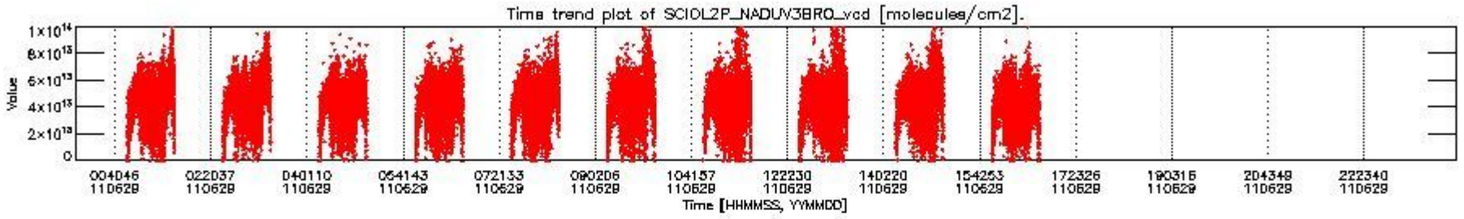

SCIOL2P_NADUV1NO2_vcd for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
1.000E+16
8.000E+15
6.000E+15
4.000E+15
2.000E+15
0.000
-135
-90
-45
0
45
90
135
180
60
30
0
-30
-60
-90

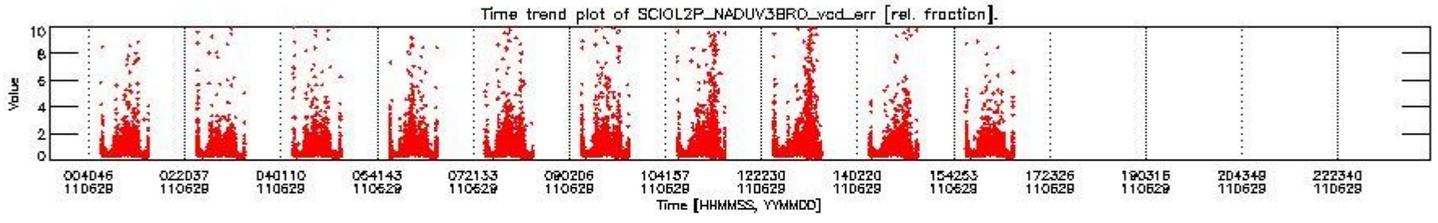

SCIOL2P_NADUV1NO2_vcd_err for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
0.4000
0.3000
0.2000
0.1000
0.000
-135
-90
-45
0
45
90
135
180
60
30
0
-30
-60
-90

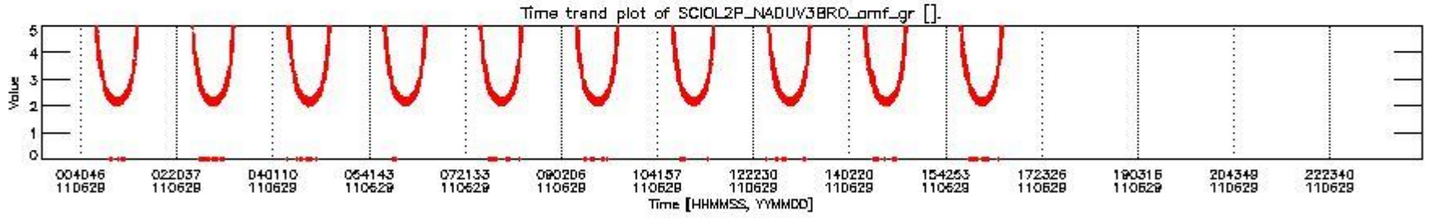

SCIOL2P_NADUV1NO2_amf_gr for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-135
-90
-45
0
45
90
135
180
60
30
0
-30
-60
-90

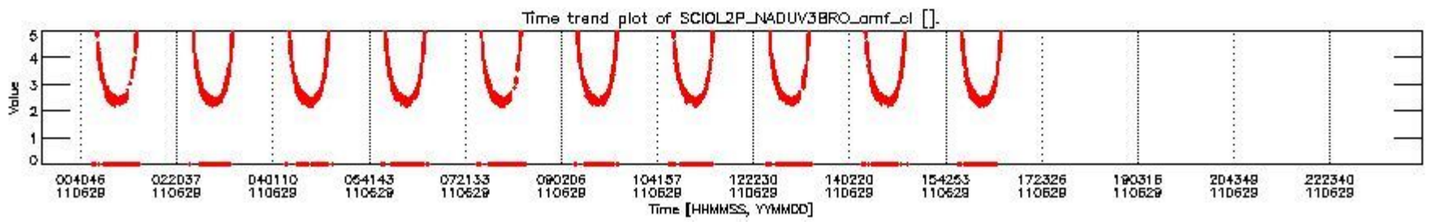

SCIOL2P_NADUV1NO2_amf_cl for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-135
-90
-45
0
45
90
135
180
60
30
0
-30
-60
-90

2.2.2.3 BrO (UV3)

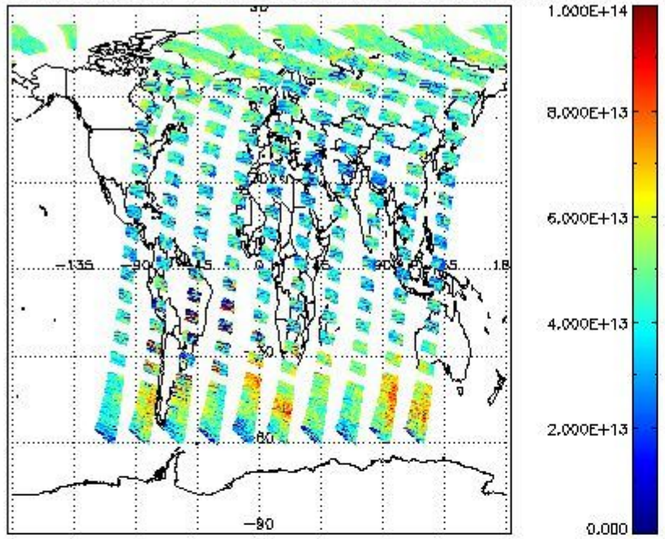

Time trend plot of SCIOL2P_NADUV3BRO_vcd [molecules/cm2].
Value
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV3BRO_vcd_err [rel. fraction].
Value
Time [HHMMSS, YYMMDD]

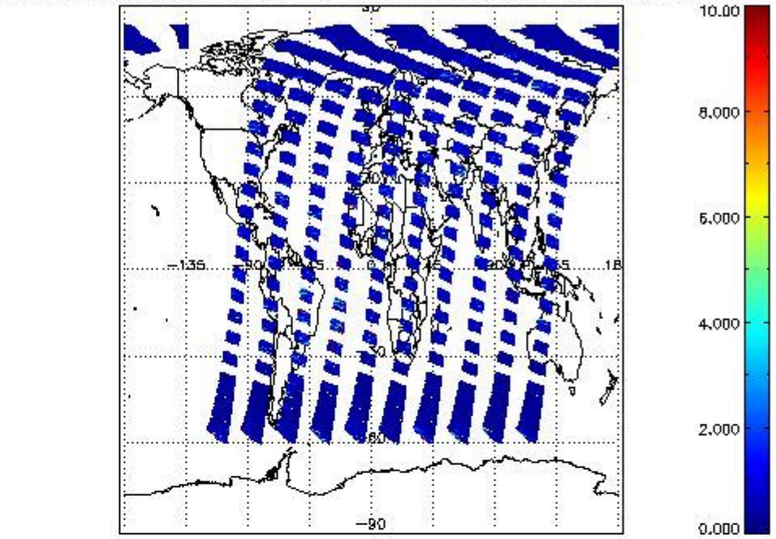

Time trend plot of SCIOL2P_NADUV3BRO_amf_gr [].
Value
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV3BRO_amf_cl [].
Value
Time [HHMMSS, YYMMDD]

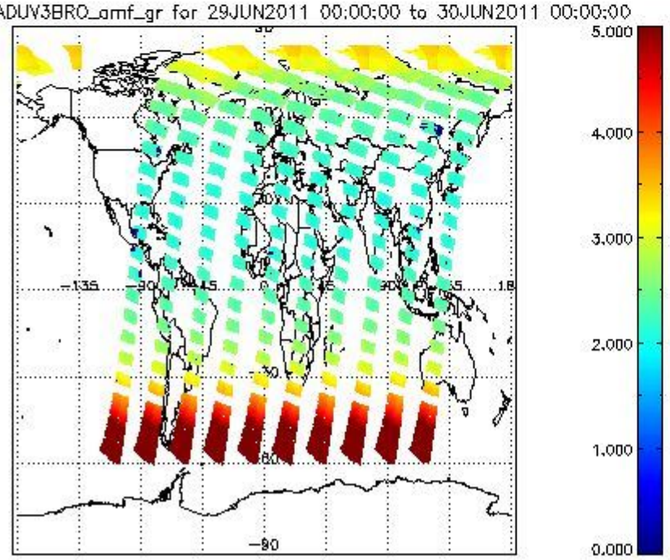
SCIOL2P_NADUV3BRO_vcd for 29JUN2011 00:00:00 to 30JUN2011 00:00:00



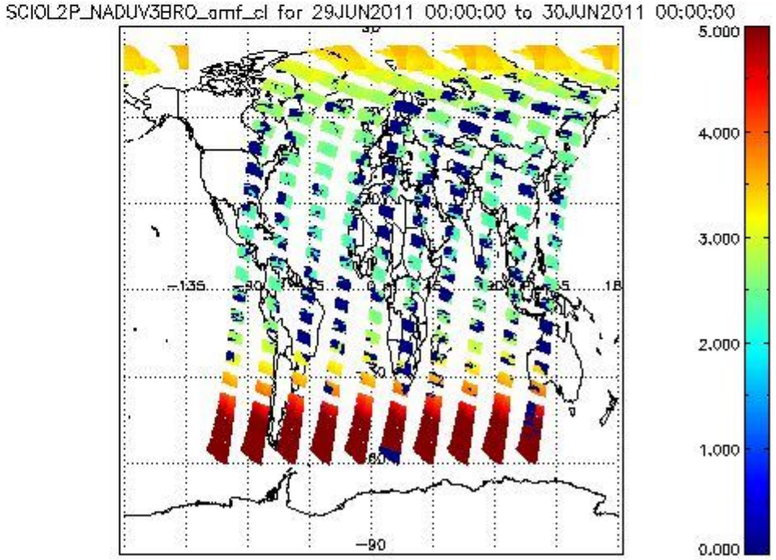
SCIOL2P_NADUV3BRO_vcd_err for 29JUN2011 00:00:00 to 30JUN2011 00:00:00



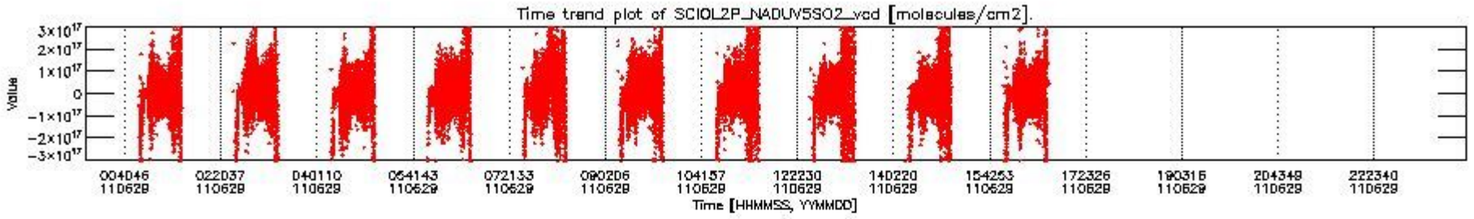
SCIOL2P_NADUV3BRO_amf_gr for 29JUN2011 00:00:00 to 30JUN2011 00:00:00

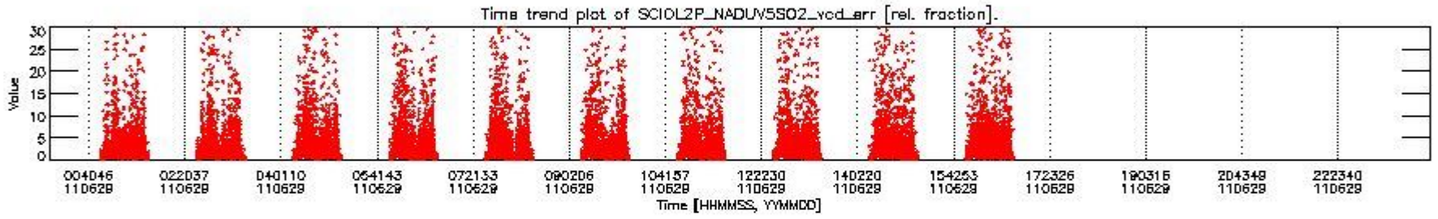


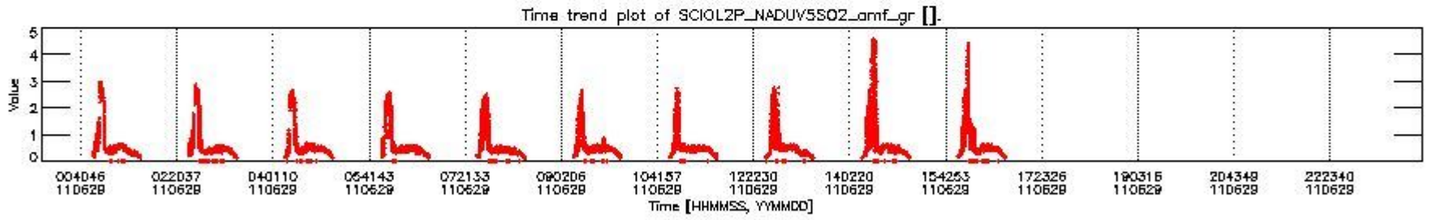
SCIOL2P_NADUV3BRO_amf_cl for 29JUN2011 00:00:00 to 30JUN2011 00:00:00

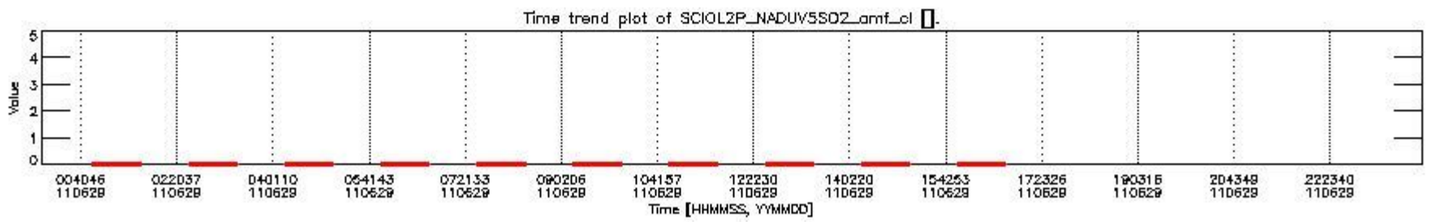


2.2.2.4 SO2 (UV5)

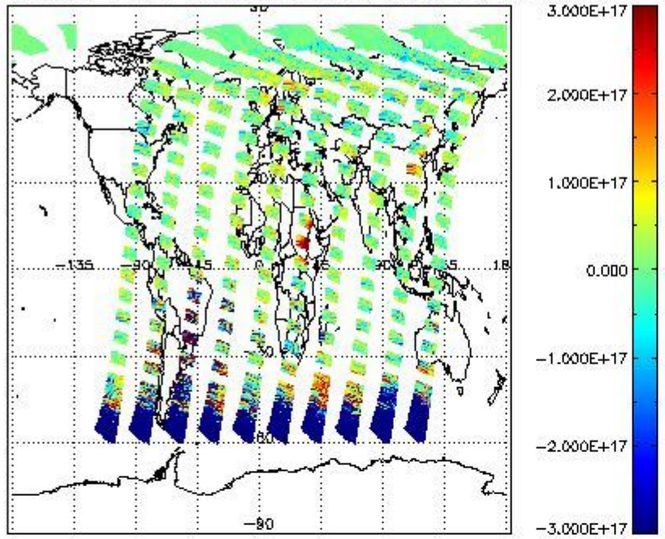

Time trend plot of SCIOL2P_NADUV5SO2_vcd [molecules/cm2].
Value
3x10^17
2x10^17
1x10^17
0
-1x10^17
-2x10^17
-3x10^17
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV5SO2_vcd_err [rel. fraction].
Value
30
25
20
15
10
5
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

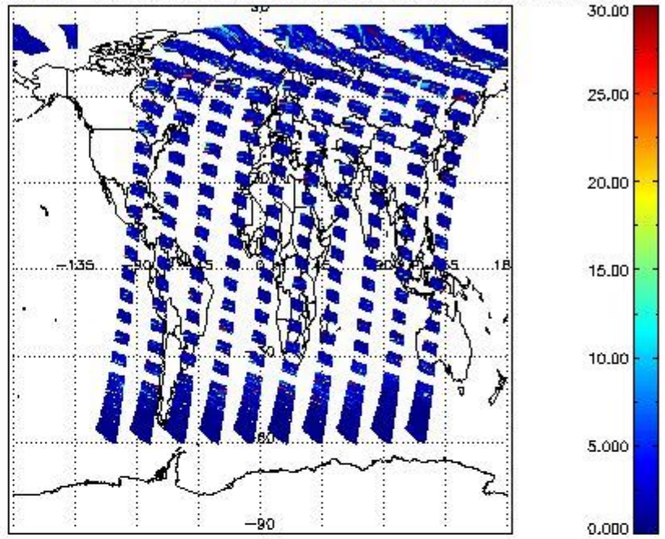

Time trend plot of SCIOL2P_NADUV5SO2_amf_gr [].
Value
5
4
3
2
1
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV5SO2_amf_cl [].
Value
5
4
3
2
1
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

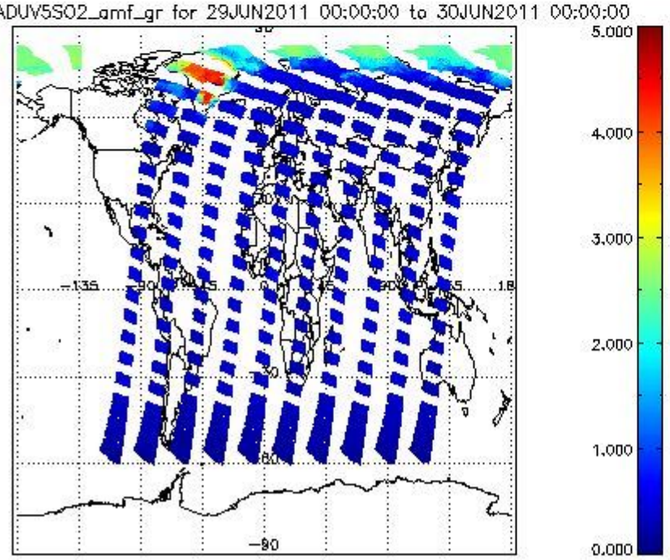
SCIOL2P_NADUV5SO2_vcd for 29JUN2011 00:00:00 to 30JUN2011 00:00:00



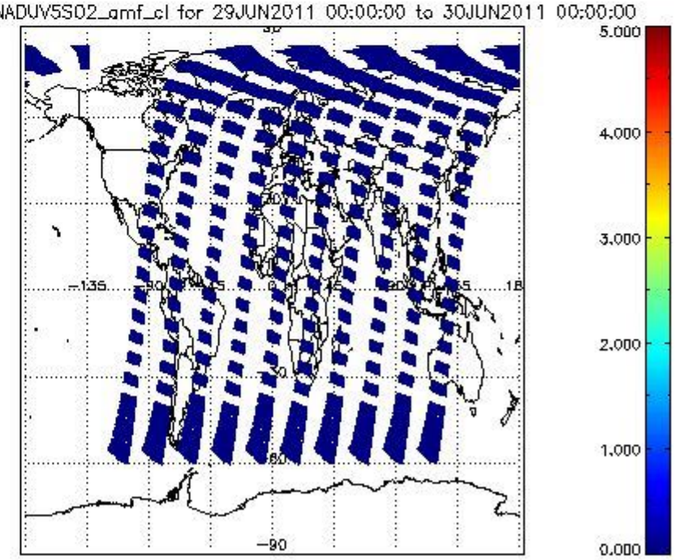
SCIOL2P_NADUV5SO2_vcd_err for 29JUN2011 00:00:00 to 30JUN2011 00:00:00



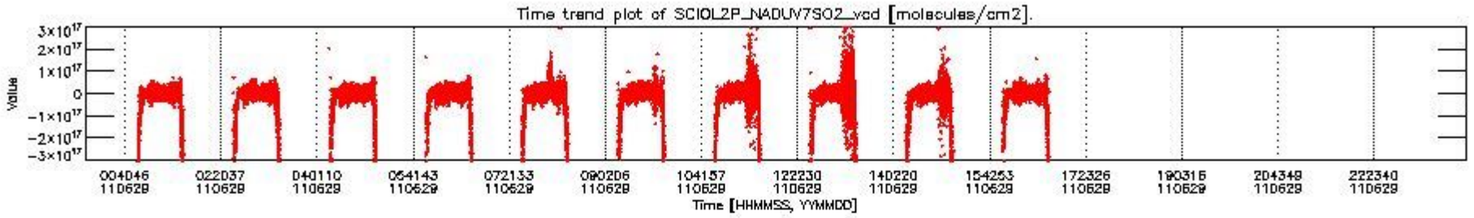
SCIOL2P_NADUV5SO2_amf_gr for 29JUN2011 00:00:00 to 30JUN2011 00:00:00

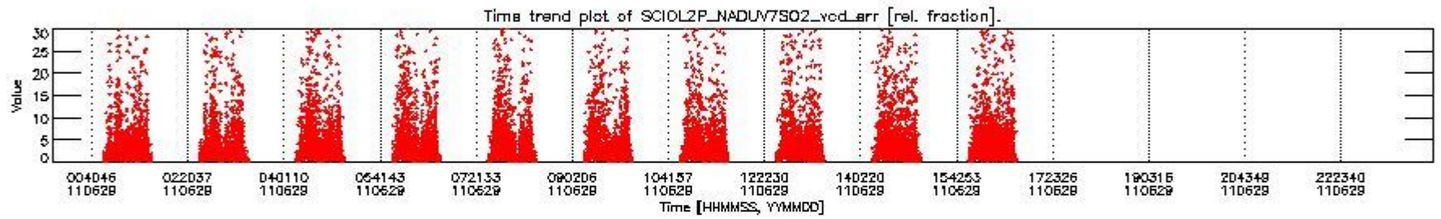


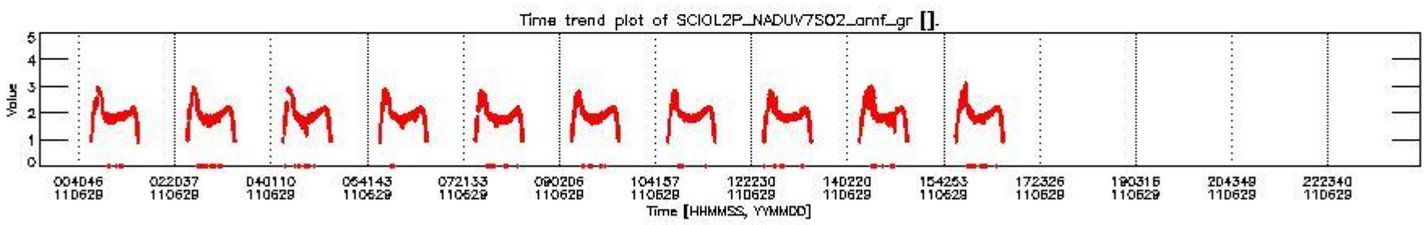
SCIOL2P_NADUV5SO2_amf_cl for 29JUN2011 00:00:00 to 30JUN2011 00:00:00

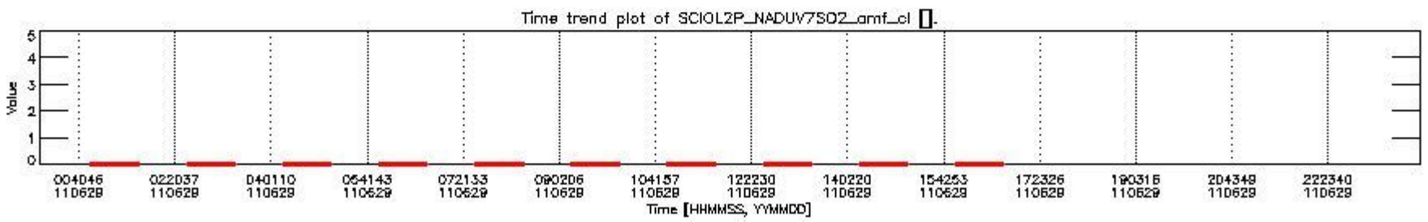


2.2.2.5 SO2 (UV7)

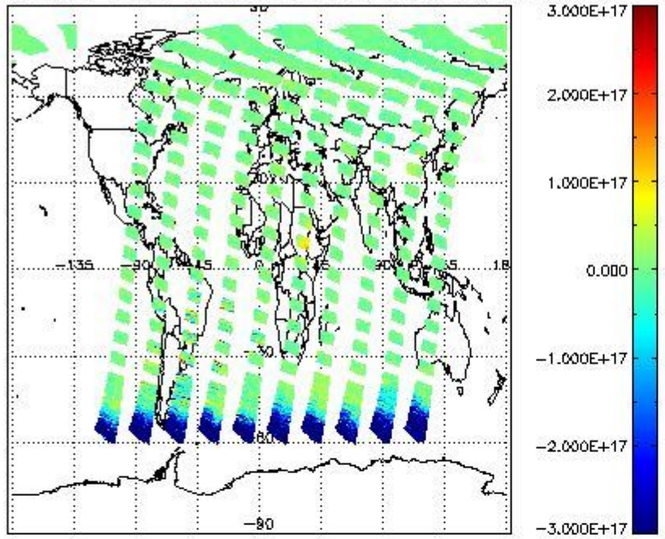

Time trend plot of SCIOL2P_NADUV7SO2_vcd [molecules/cm2].
Value
3x10^17
2x10^17
1x10^17
0
-1x10^17
-2x10^17
-3x10^17
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV7SO2_vcd_err [rel. fraction].
Value
30
25
20
15
10
5
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

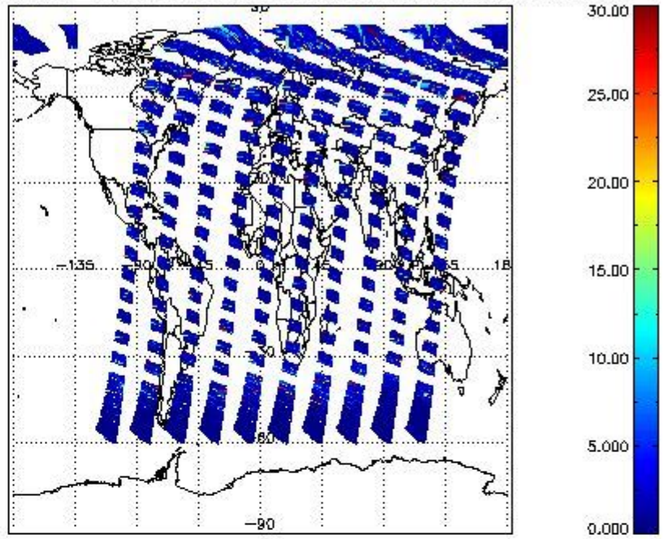

Time trend plot of SCIOL2P_NADUV7SO2_amf_gr [].
Value
5
4
3
2
1
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV7SO2_amf_cl [].
Value
5
4
3
2
1
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

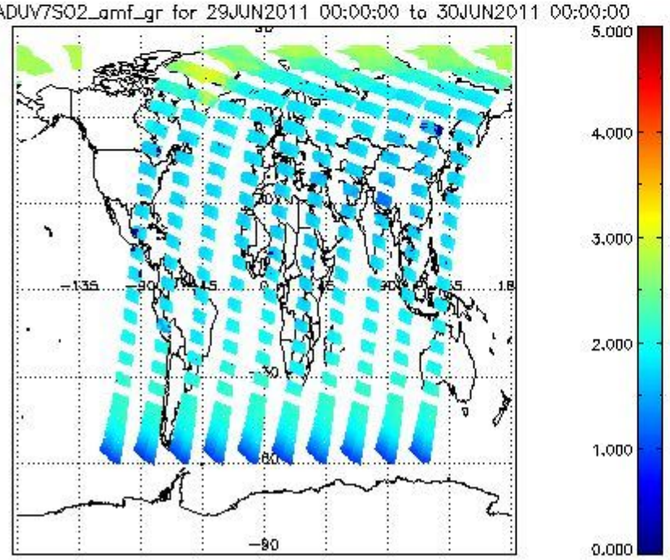
SCIOL2P_NADUV7SO2_vcd for 29JUN2011 00:00:00 to 30JUN2011 00:00:00



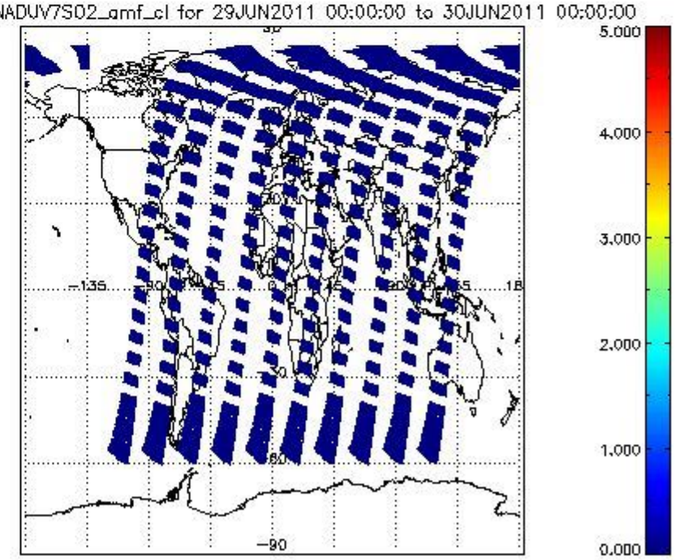
SCIOL2P_NADUV7SO2_vcd_err for 29JUN2011 00:00:00 to 30JUN2011 00:00:00



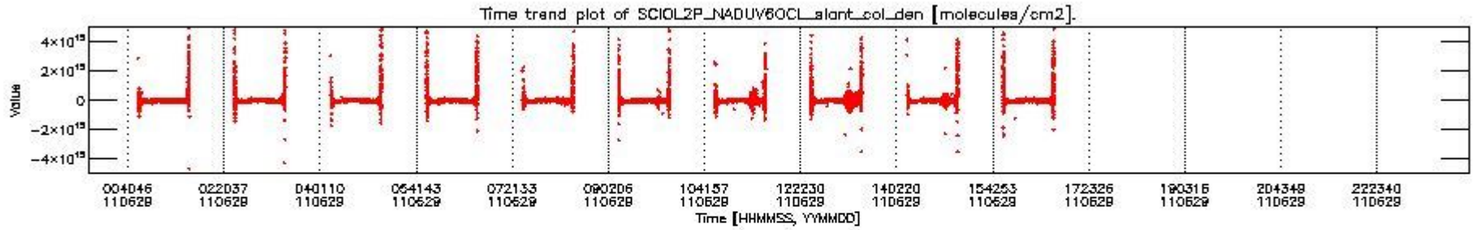
SCIOL2P_NADUV7SO2_amf_gr for 29JUN2011 00:00:00 to 30JUN2011 00:00:00

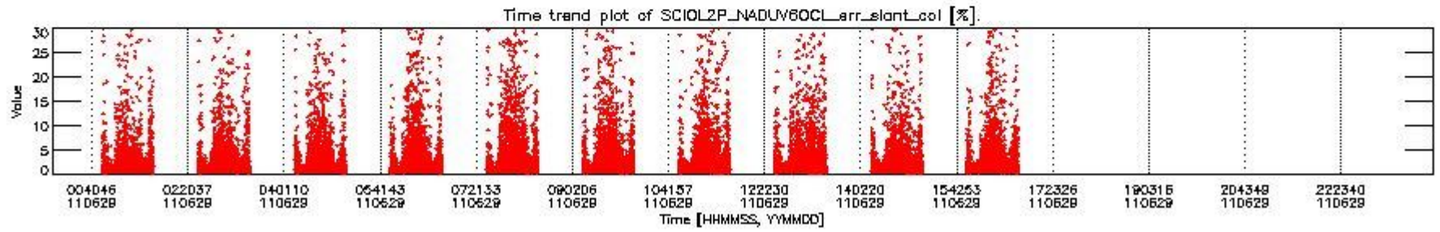


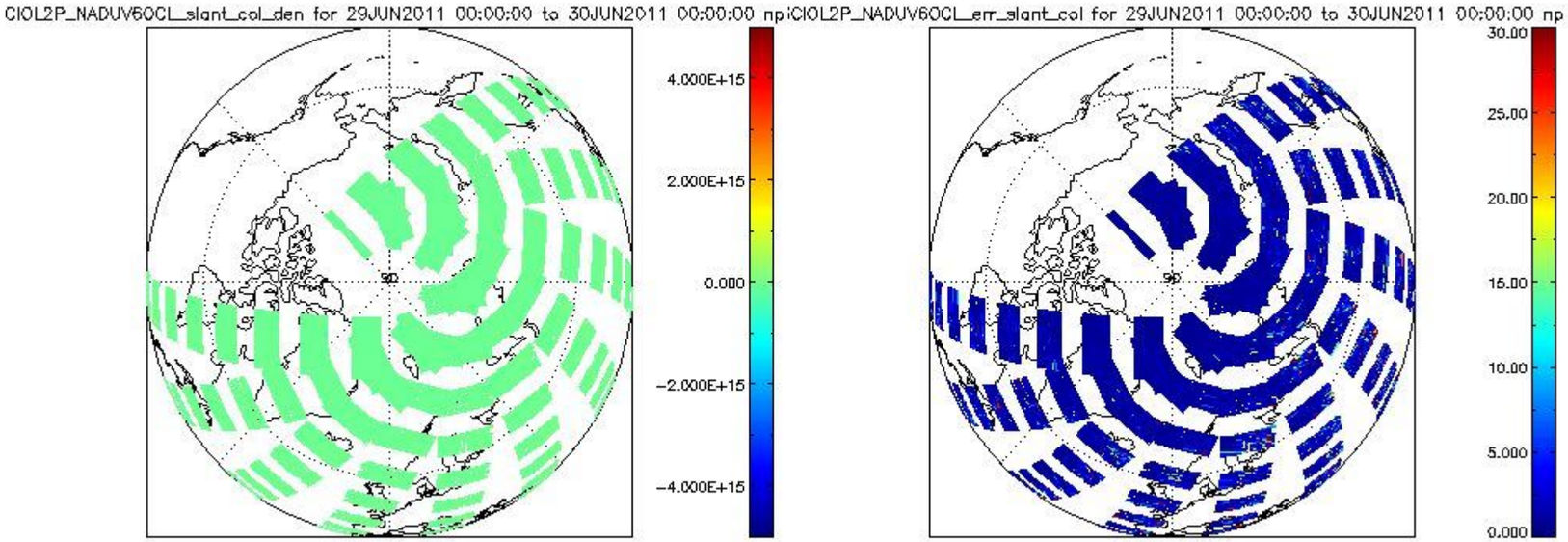
SCIOL2P_NADUV7SO2_amf_cl for 29JUN2011 00:00:00 to 30JUN2011 00:00:00

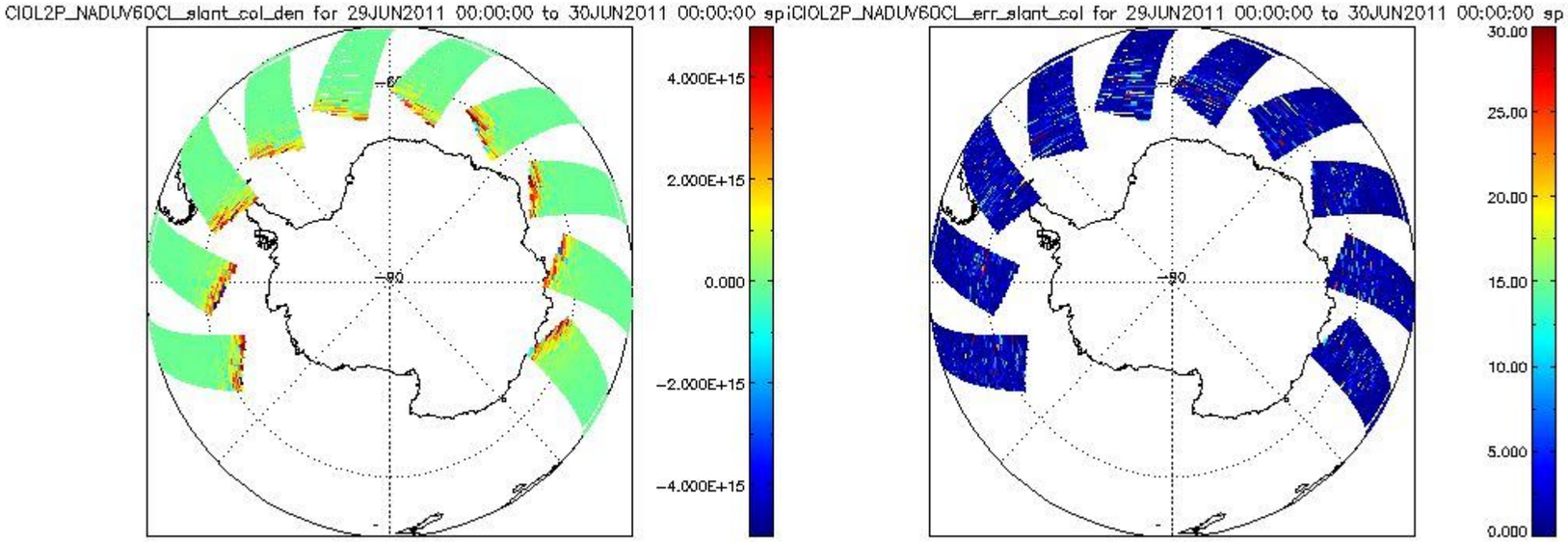


2.2.2.6 OClO (UV6)

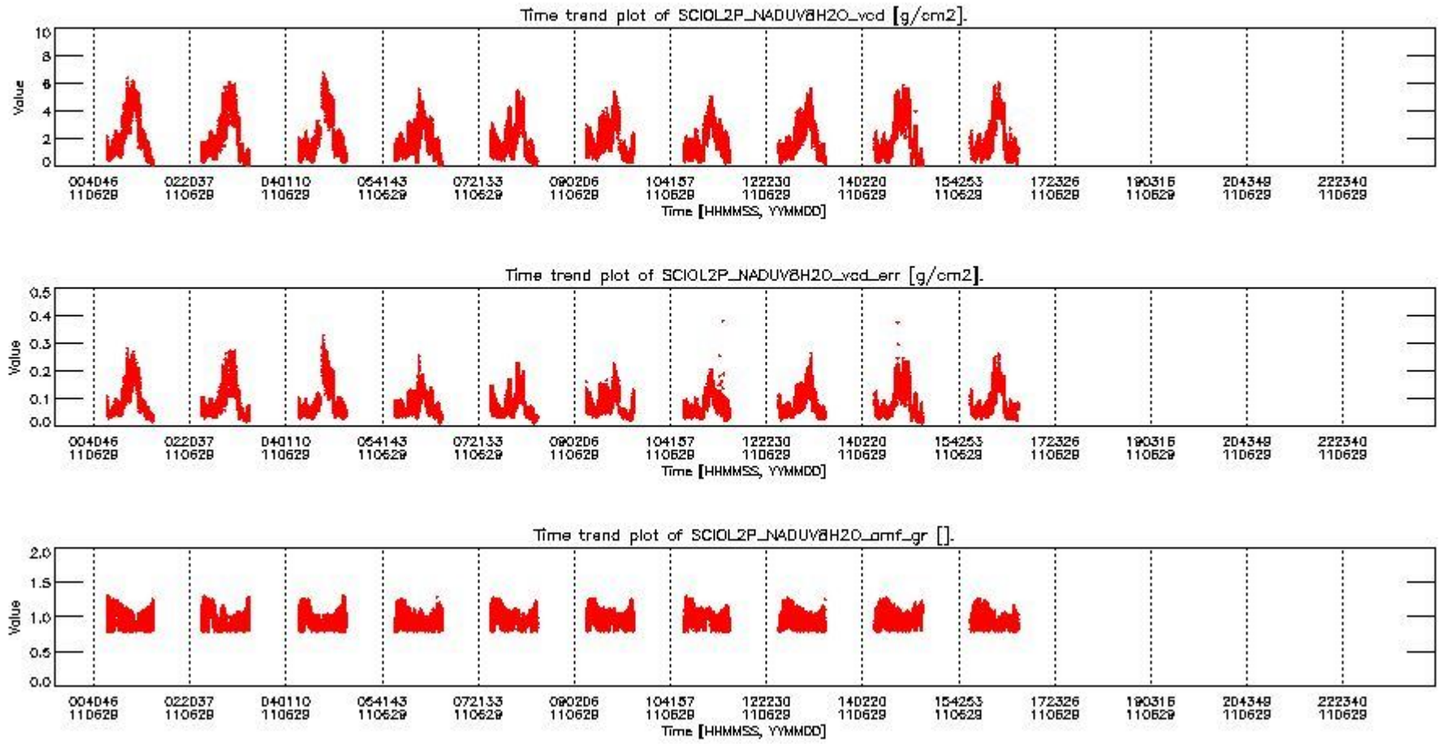

Time trend plot of SCIOL2P_NADUV6OCL_slant_col_den [molecules/cm2].
Value
4×10^15
2×10^15
0
−2×10^15
−4×10^15
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV6OCL_err_slant_col [%].
Value
30
25
20
15
10
5
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

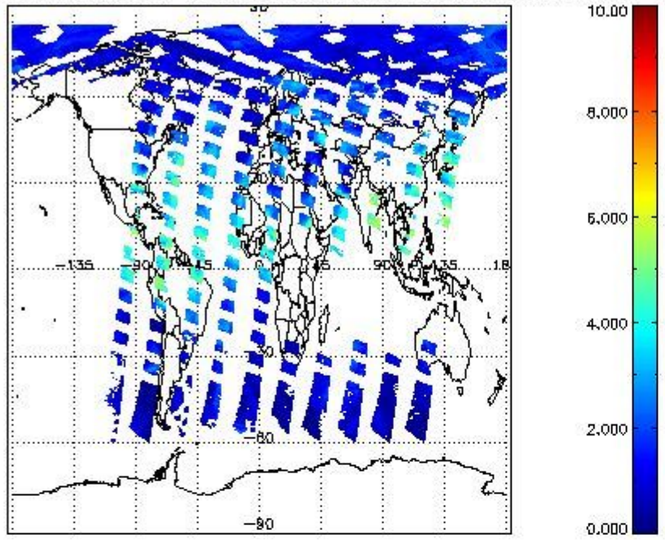

CIOL2P_NADUV6OCL_slant_col_den for 29JUN2011 00:00:00 to 30JUN2011 00:00:00 np
4.000E+15
2.000E+15
0.000
−2.000E+15
−4.000E+15
CIOL2P_NADUV6OCL_err_slant_col for 29JUN2011 00:00:00 to 30JUN2011 00:00:00 np
30.00
25.00
20.00
15.00
10.00
5.000
0.000


CIOL2P_NADUV6OCL_slant_col_den for 29JUN2011 00:00:00 to 30JUN2011 00:00:00 spiCIOL2P_NADUV6OCL_err_slant_col for 29JUN2011 00:00:00 to 30JUN2011 00:00:00 sp
4.000E+15
2.000E+15
0.000
-2.000E+15
-4.000E+15
30.00
25.00
20.00
15.00
10.00
5.000
0.000

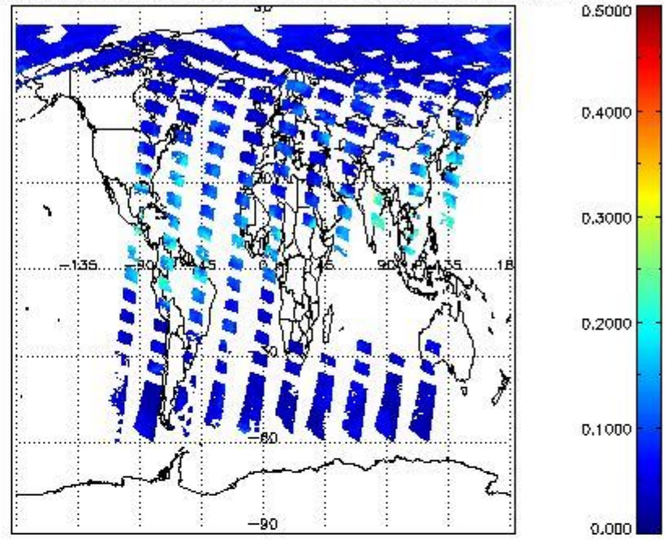
2.2.2.7 H2O (UV8)


Time trend plot of SCIOL2P_NADUV8H2O_vcd [g/cm2].
Value
Time [HHMMSS, YYMMDD]
Time trend plot of SCIOL2P_NADUV8H2O_vcd_err [g/cm2].
Value
Time [HHMMSS, YYMMDD]
Time trend plot of SCIOL2P_NADUV8H2O_amf_gr [].
Value
Time [HHMMSS, YYMMDD]

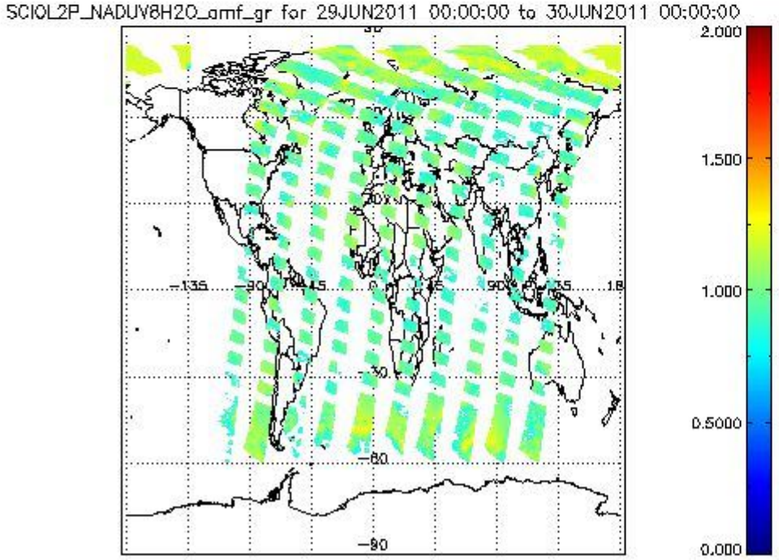
SCIOL2P_NADUV8H2O_vcd for 29JUN2011 00:00:00 to 30JUN2011 00:00:00



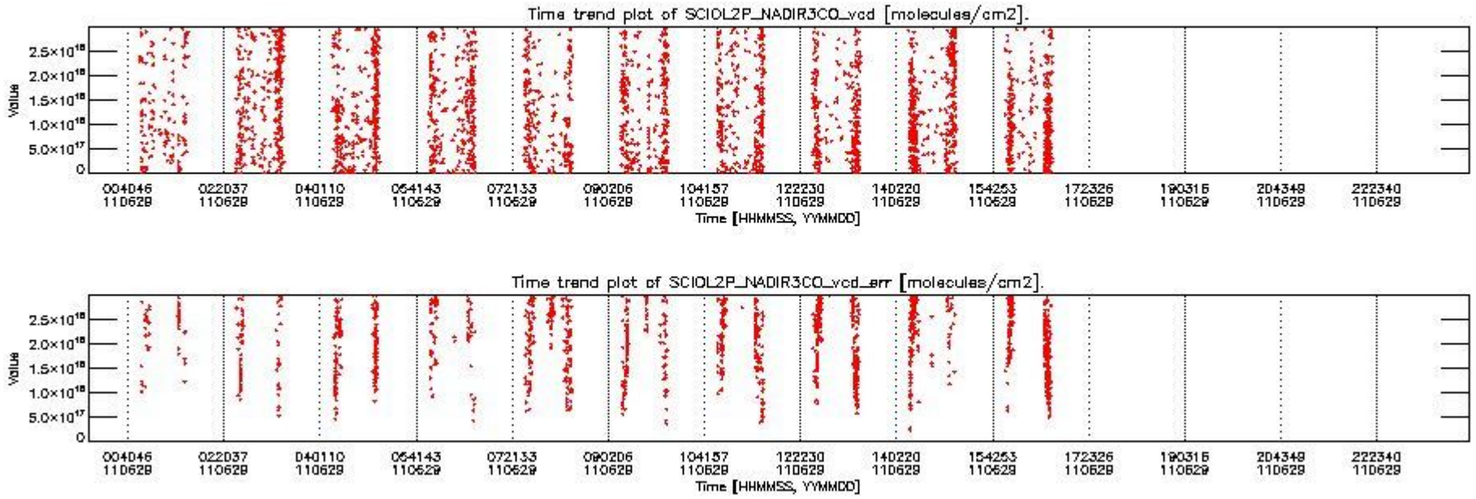
SCIOL2P_NADUV8H2O_vcd_err for 29JUN2011 00:00:00 to 30JUN2011 00:00:00

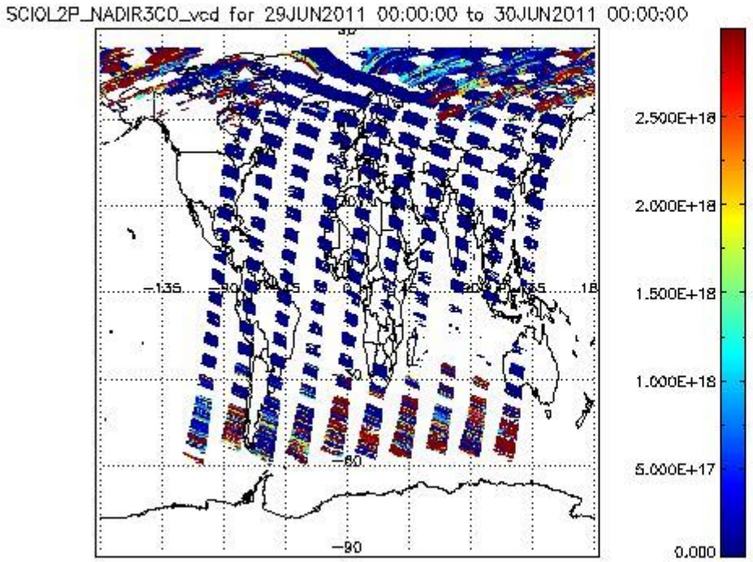


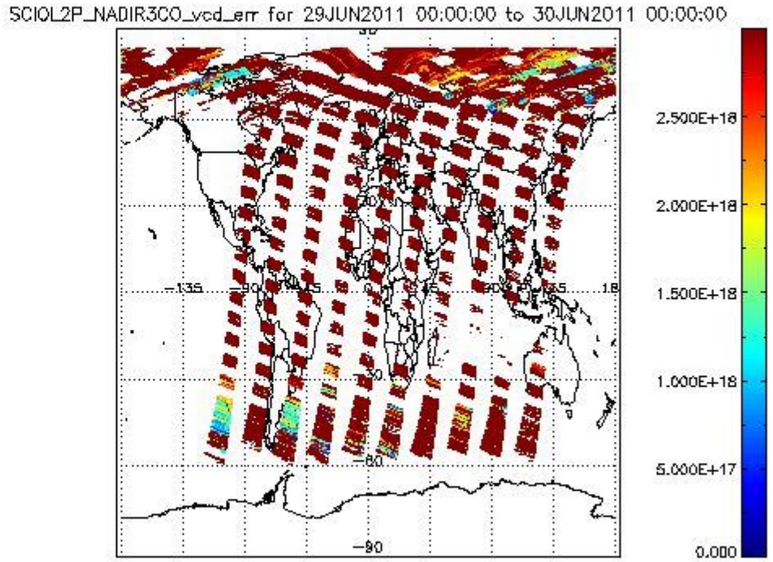
SCIOL2P_NADUV8H2O_amf_gr for 29JUN2011 00:00:00 to 30JUN2011 00:00:00



2.2.2.8 CO (IR3)







2.2.3 Limb

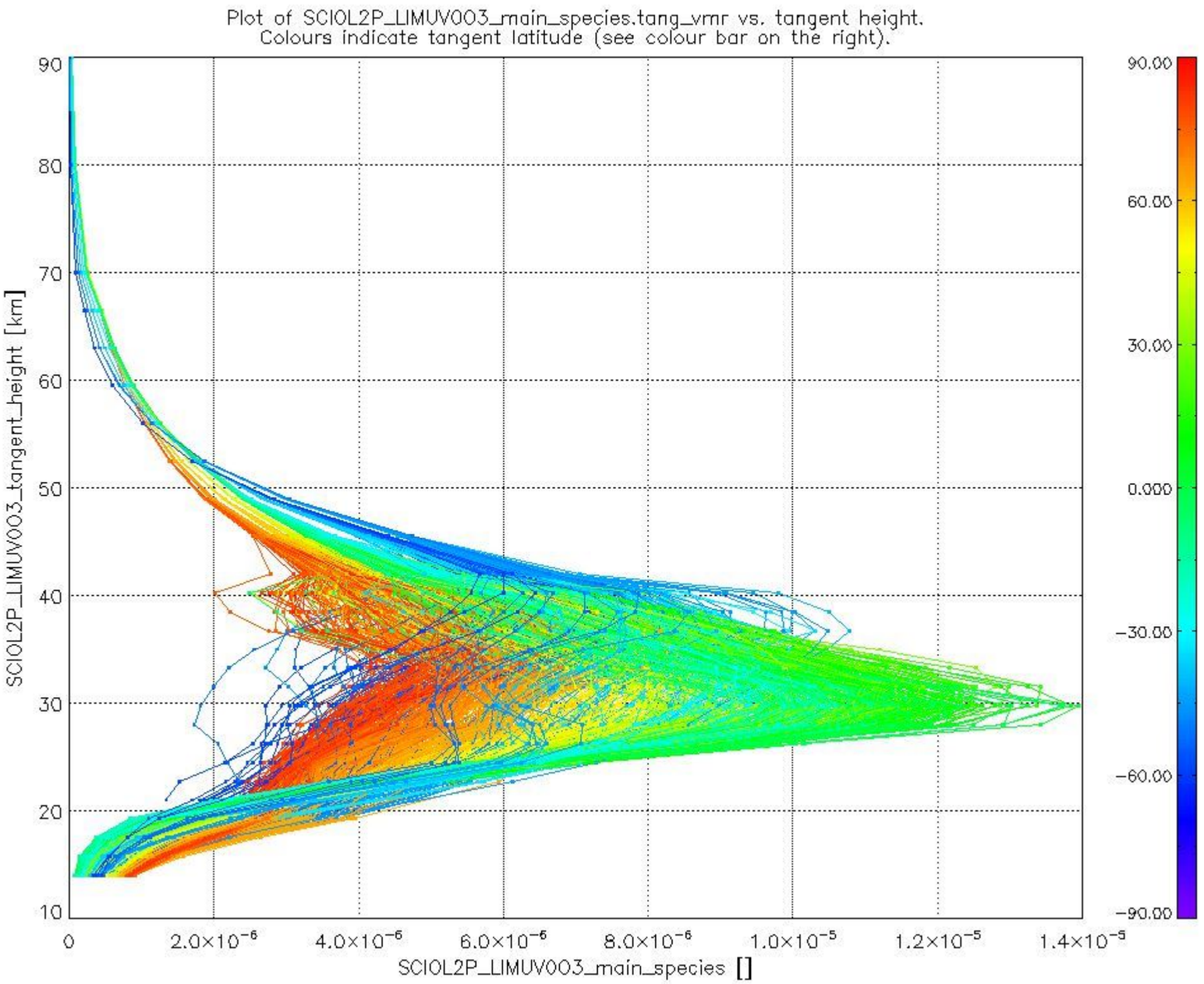
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

The following data items are currently included into this section:

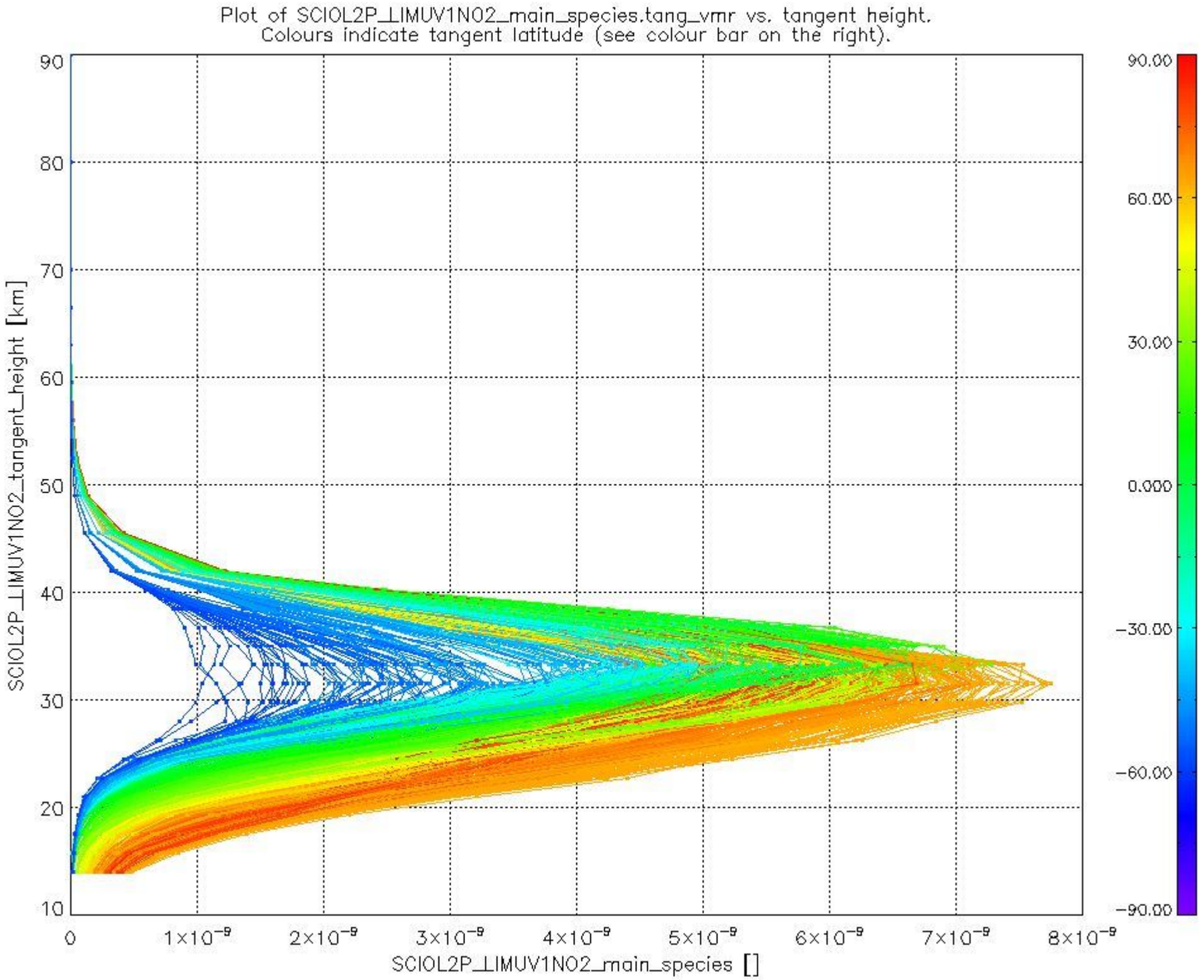
Number	Data item ID
0	SCIOL2P_LIMUV0O3_main_species
1	SCIOL2P_LIMUV1NO2_main_species
2	SCIOL2P_LIMUV3BRO_main_species

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

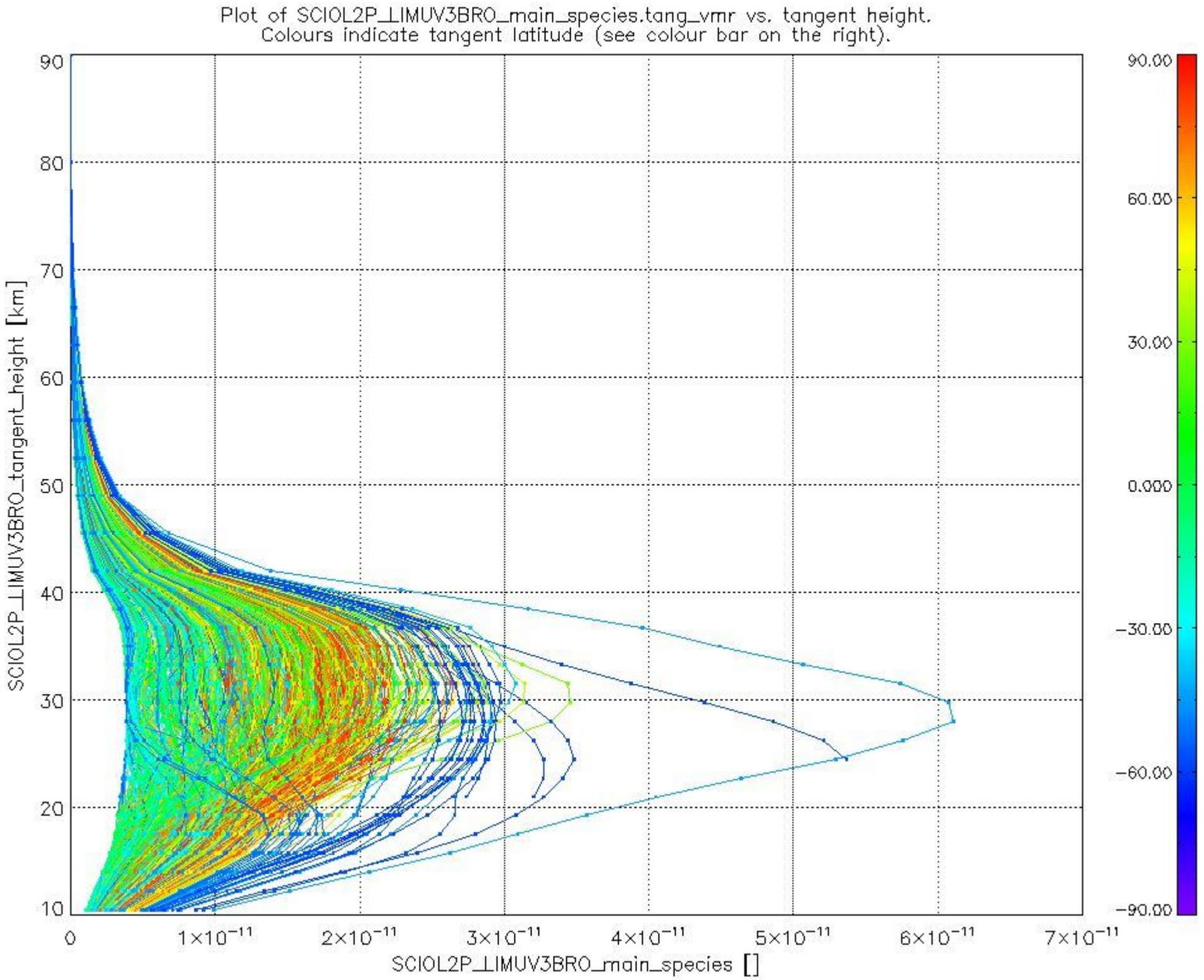
2.2.3.1 O3 (UV0)



2.2.3.2 NO2 (UV1)

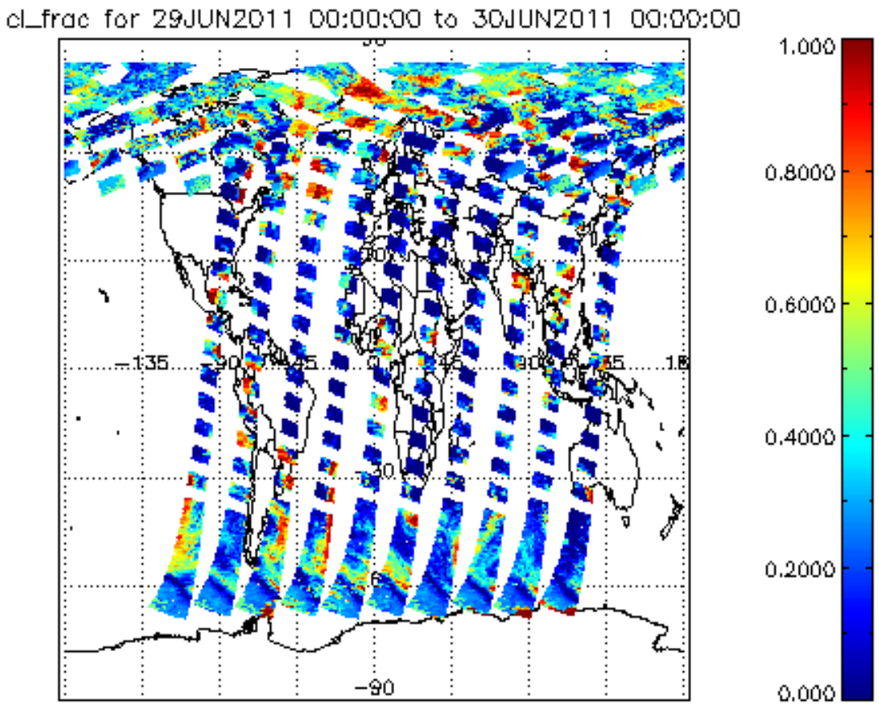

Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).
SCIOL2P_LIMUV1NO2_tangent_height [km]
90
80
70
60
50
40
30
20
10
0
1×10⁻⁹
2×10⁻⁹
3×10⁻⁹
4×10⁻⁹
5×10⁻⁹
6×10⁻⁹
7×10⁻⁹
8×10⁻⁹
SCIOL2P_LIMUV1NO2_main_species []
90.00
60.00
30.00
0.000
−30.00
−60.00
−90.00

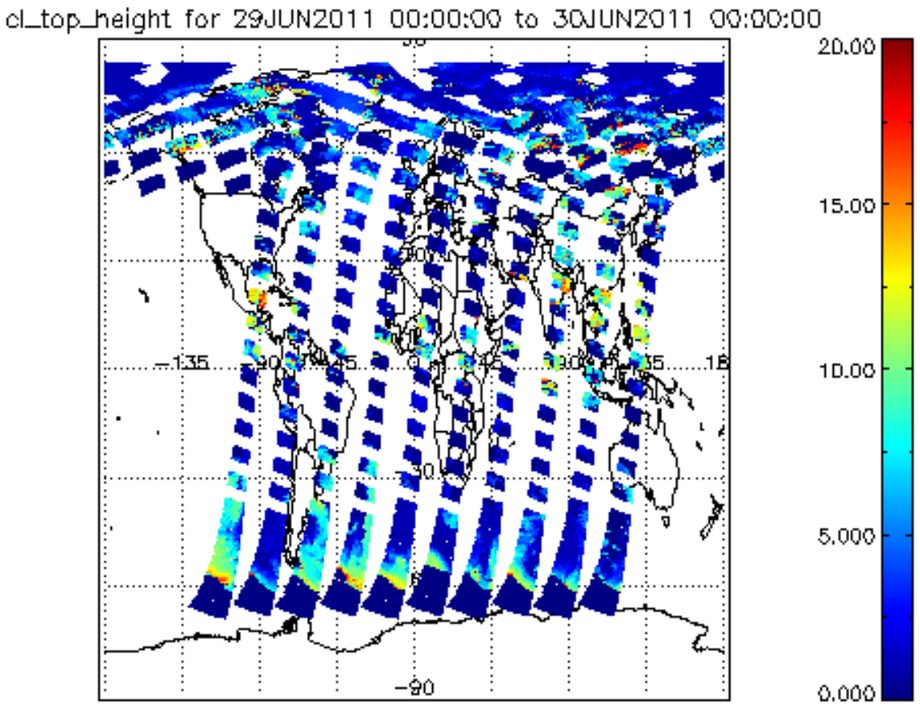
2.2.3.3 BrO (UV3)

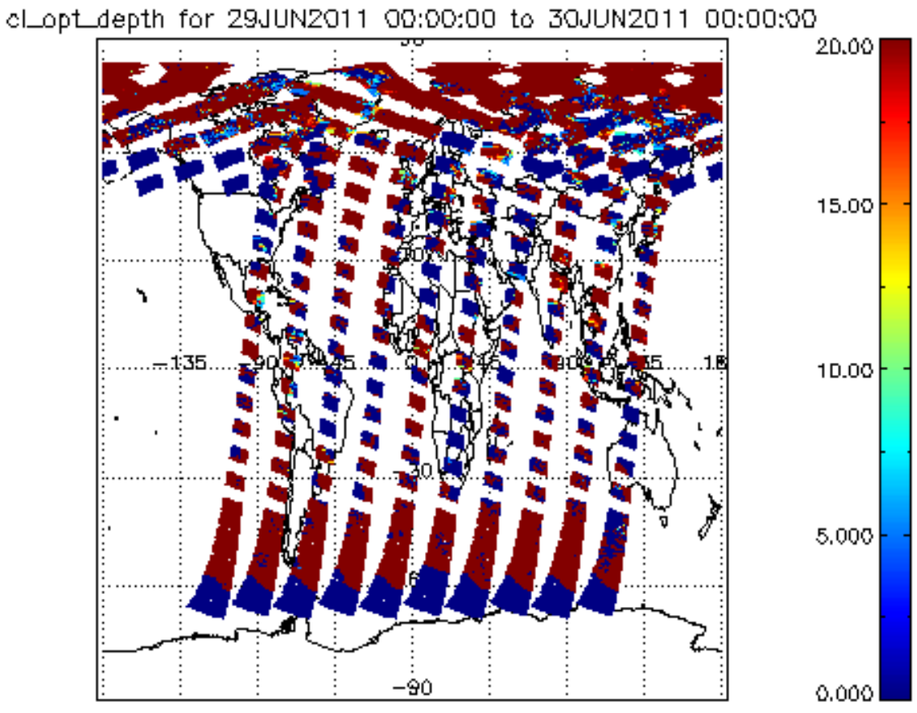


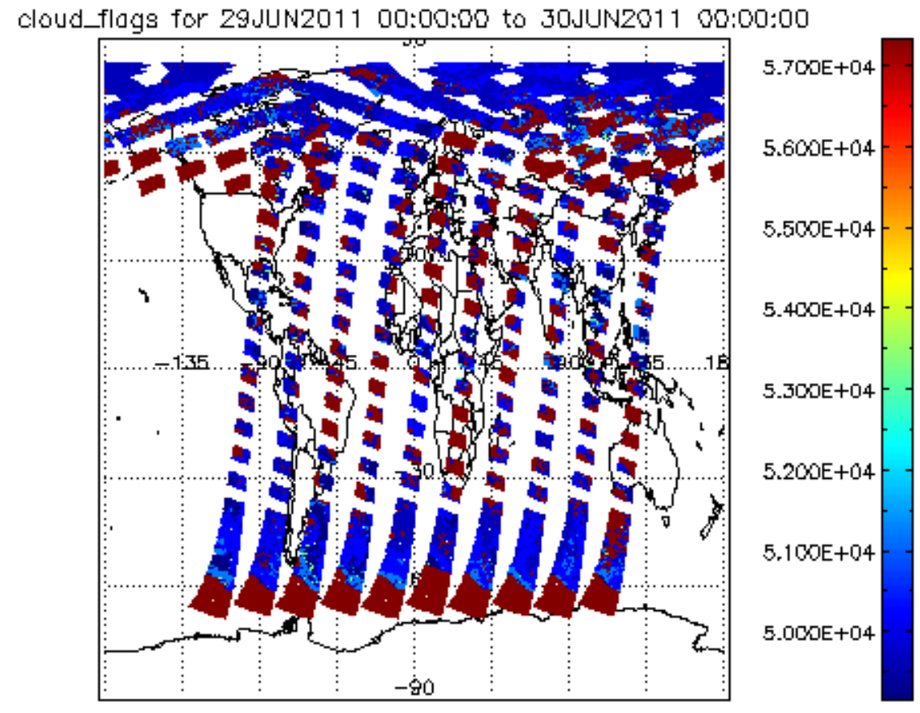
2.3 ADF monitoring

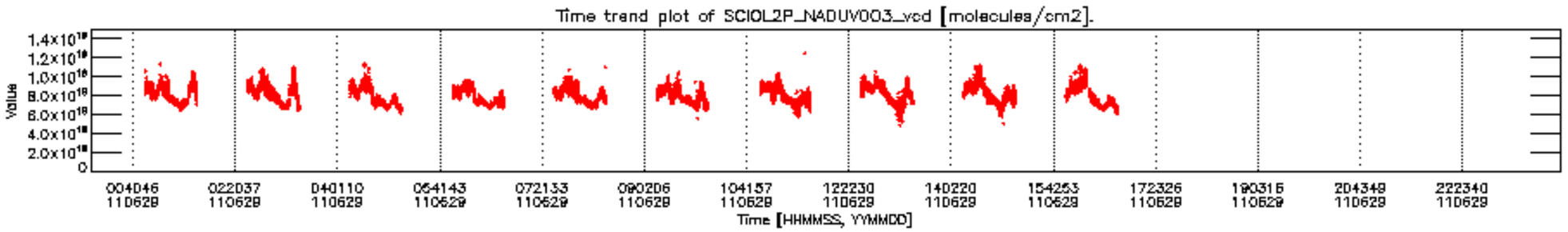
Number	ADF
	IN_ (INITIALISATION_FILE)
0	SCI_IN__AXNPDE20090615_120000_20090615_000000_20991231_235959
	ECF (ECMWF_FILE)
1	NOT USED
	MF1 (M_FACTOR_FILE)
2	SCI_MF1_AXVIEC20110705_110038_20110628_192114_20110630_192114

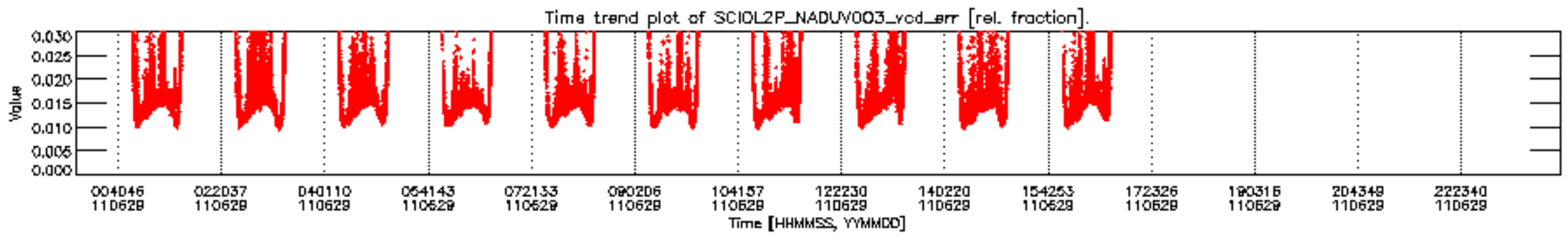

cl_frac for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
1.000
0.8000
0.6000
0.4000
0.2000
0.000
-135
-90
-90

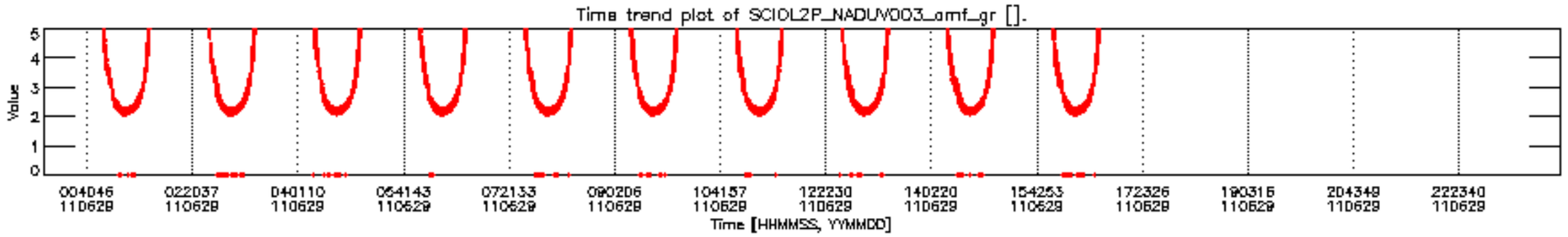

cl_top_height for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
20.00
15.00
10.00
5.000
0.000
-135
-90
-90

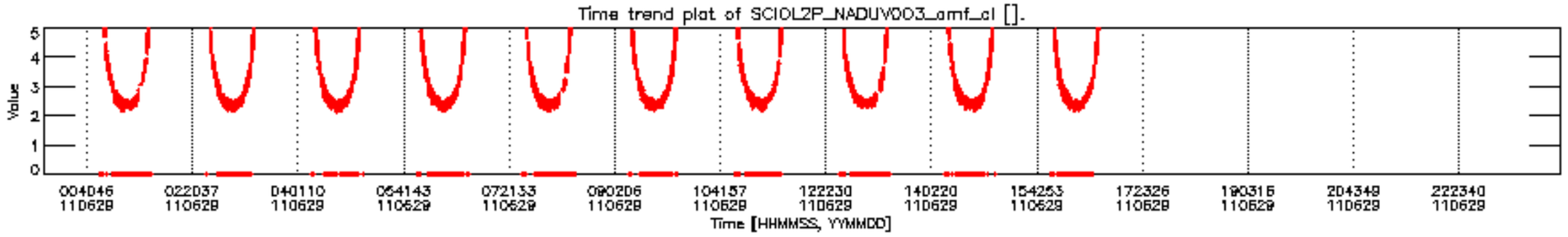

cl_opt_depth for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
20.00
15.00
10.00
5.000
0.000
-135
-90
-90

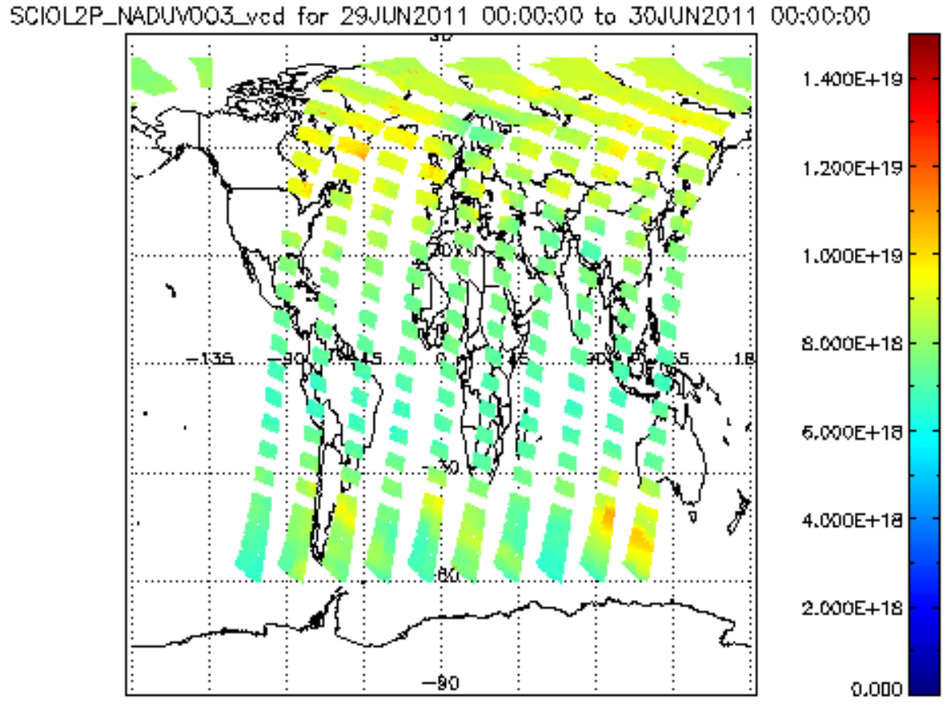

cloud_flags for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
5.700E+04
5.600E+04
5.500E+04
5.400E+04
5.300E+04
5.200E+04
5.100E+04
5.000E+04
-135
-90
-90

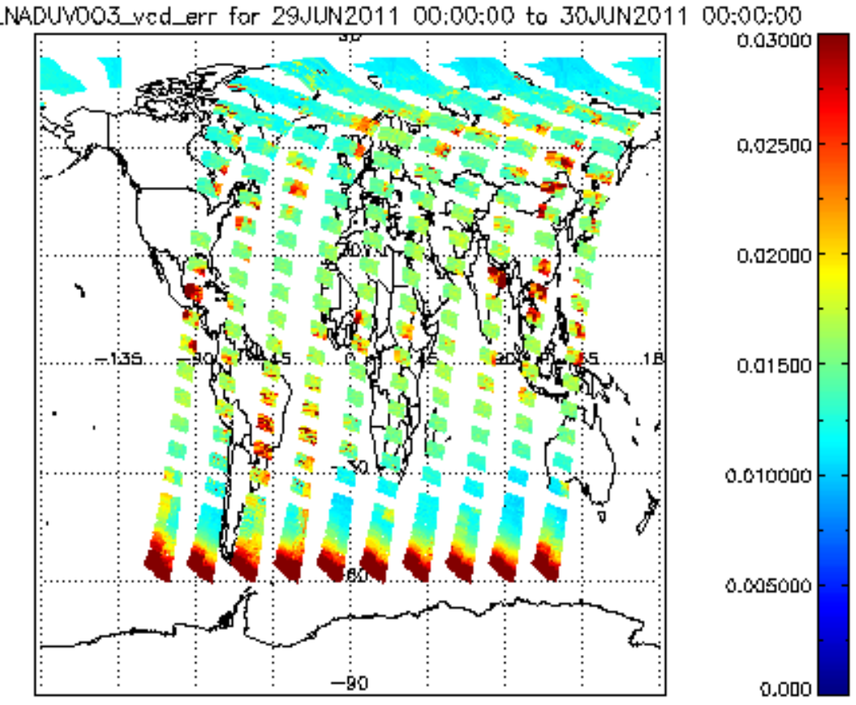

Time trend plot of SCIOL2P_NADUV003_vcd [molecules/cm2].
Value
1.4x10^18
1.2x10^18
1.0x10^18
8.0x10^18
6.0x10^18
4.0x10^18
2.0x10^18
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

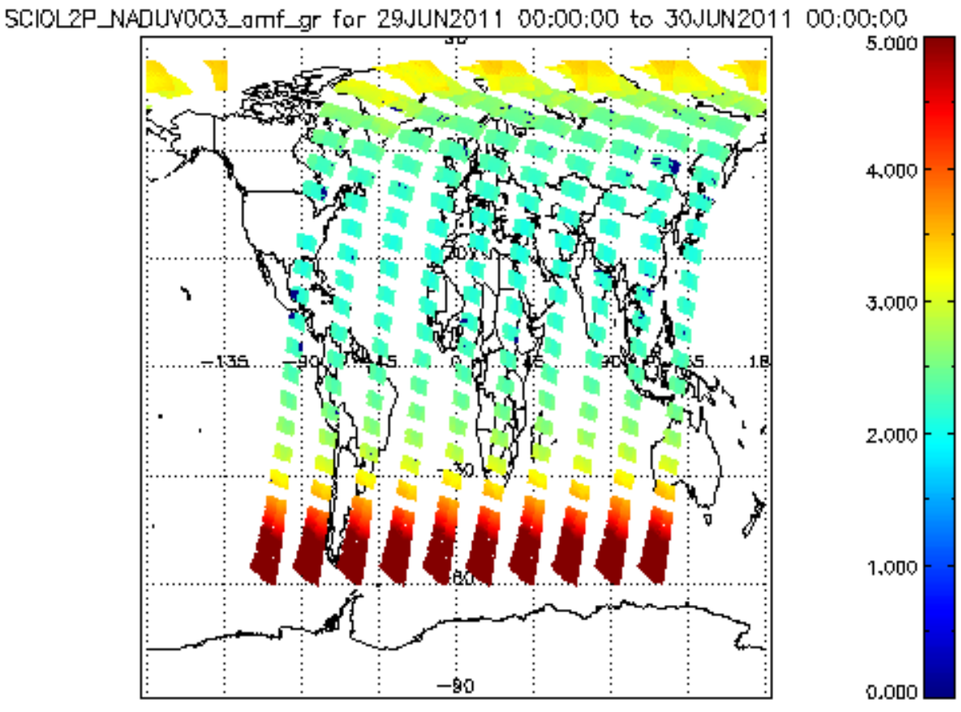

Time trend plot of SCIOL2P_NADUV003_vcd_err [rel. fraction].
Value
0.030
0.025
0.020
0.015
0.010
0.005
0.000
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

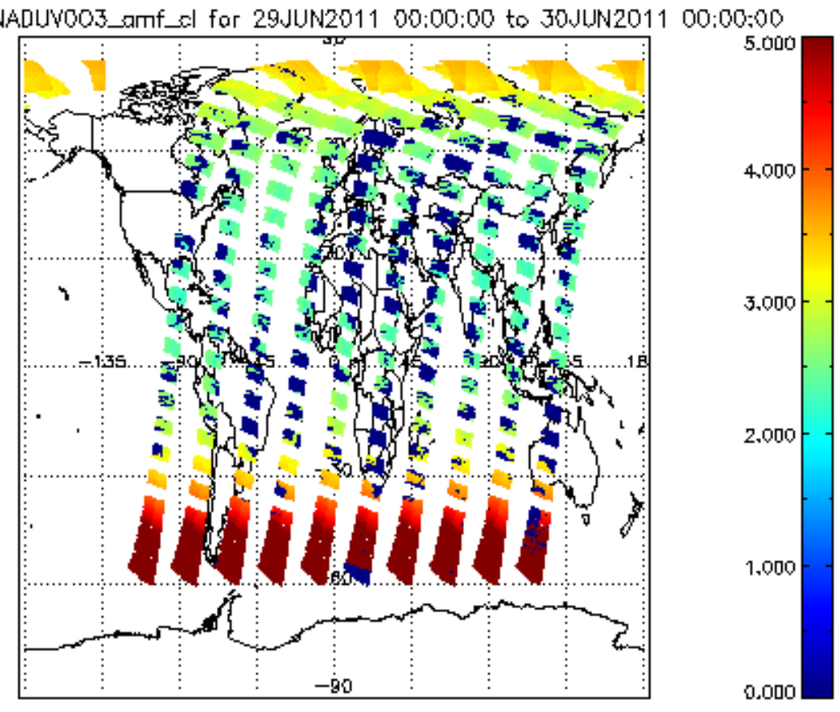

Time trend plot of SCIOL2P_NADUV003_amf_gr [].
Value
5
4
3
2
1
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

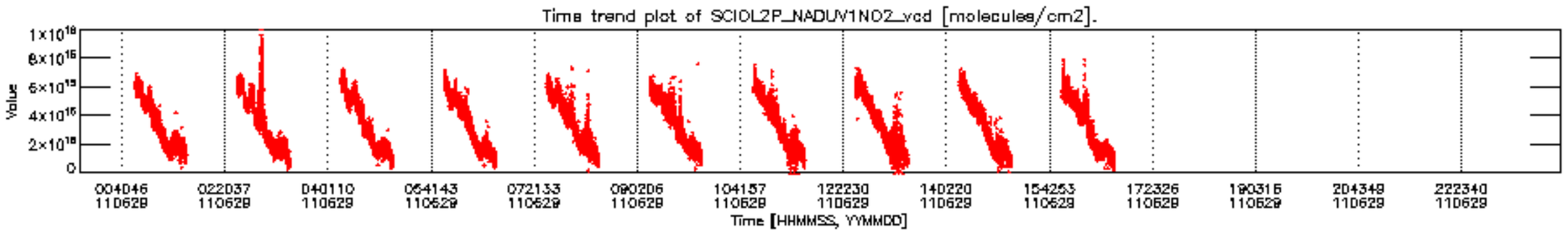

Time trend plot of SCIOL2P_NADUV003_amf_cl [].
Value
5
4
3
2
1
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

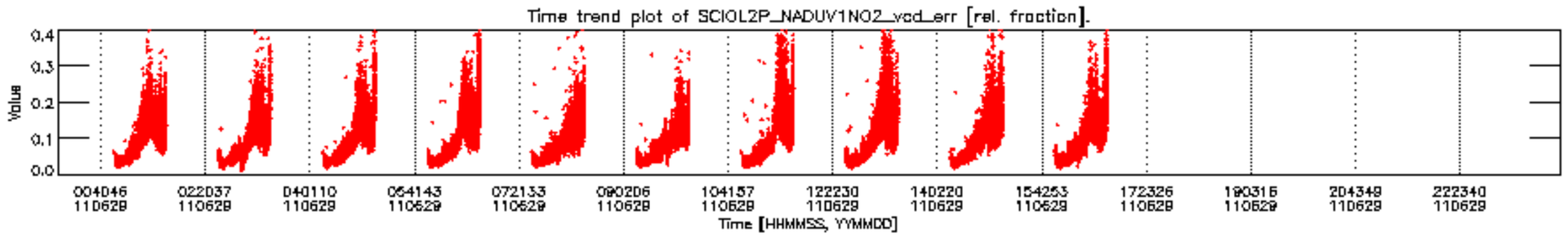

SCIOL2P_NADUV003_vcd for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
1.400E+19
1.200E+19
1.000E+19
8.000E+18
6.000E+18
4.000E+18
2.000E+18
0.000
-135
-90
-45
0
45
90
135
180
60
30
0
-30
-60
-90

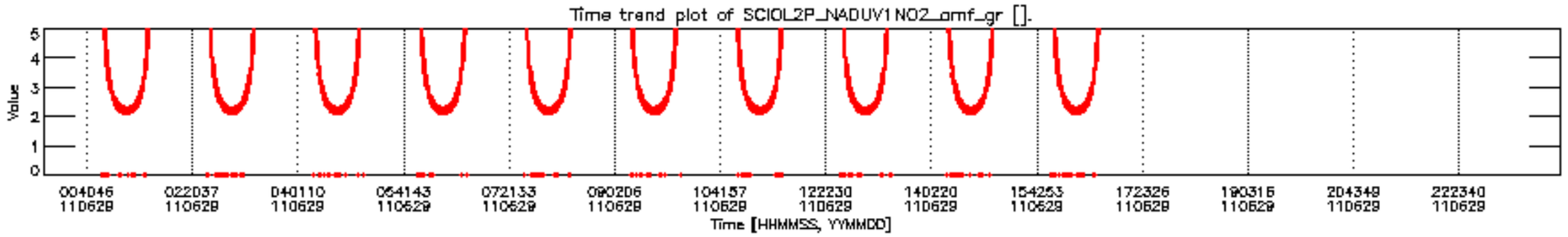

SCIOL2P_NADUV003_vcd_err for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
0.03000
0.02500
0.02000
0.01500
0.010000
0.005000
0.000
-135
-90
-45
0
45
90
135
180
60
30
0
-30
-60
-90

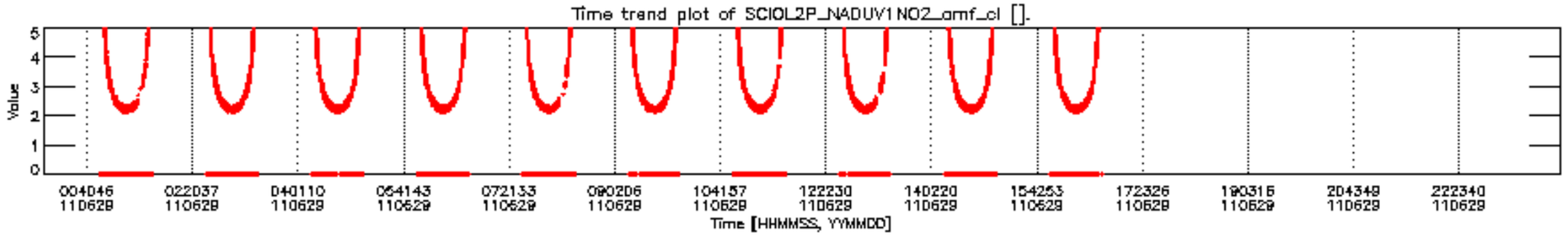

SCIOL2P_NADUV003_amf_gr for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-135
-90
-45
0
45
90
135
180
60
30
0
-30
-60
-90

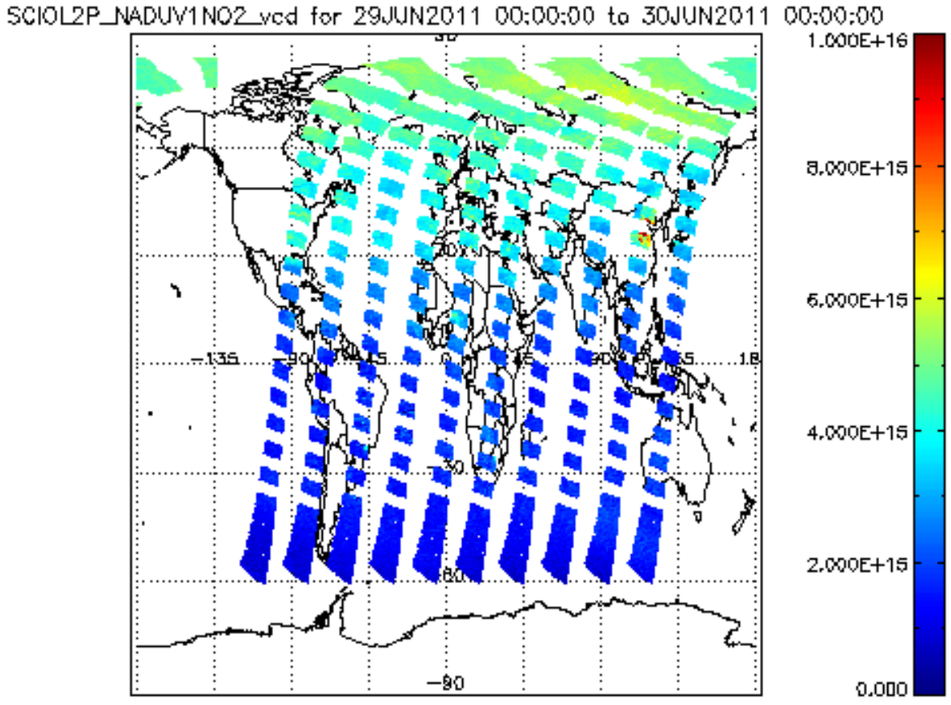

SCIOL2P_NADUV003_amf_cl for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-135
-90
-45
0
45
90
135
180
60
30
0
-30
-60
-90

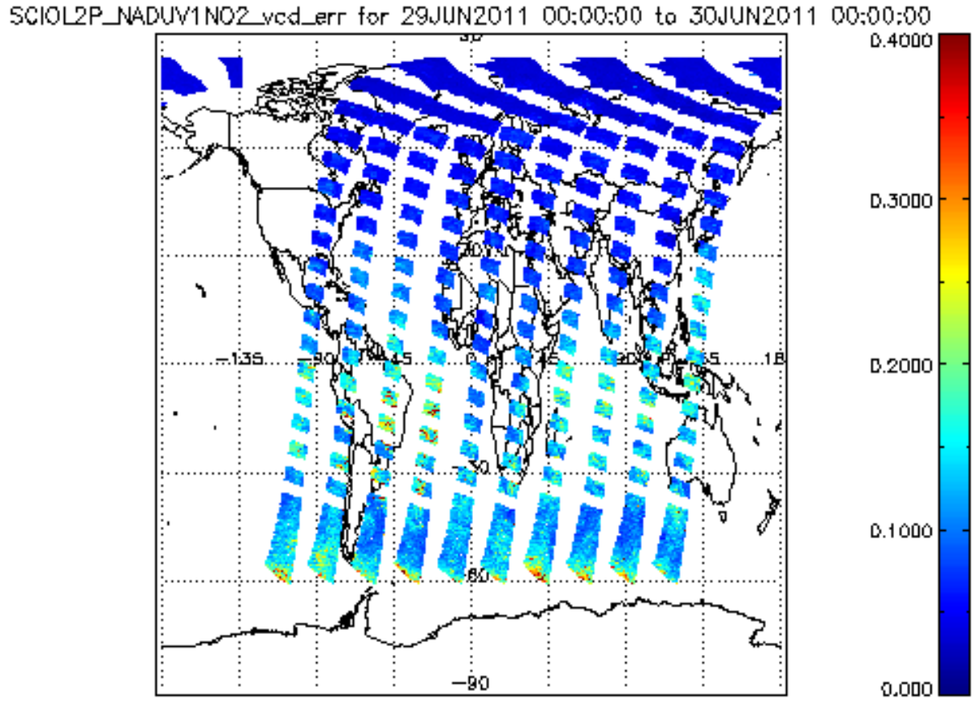

Time trend plot of SCIOL2P_NADUV1NO2_vcd [molecules/cm2].
Value
1x10^16
8x10^15
6x10^15
4x10^15
2x10^15
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

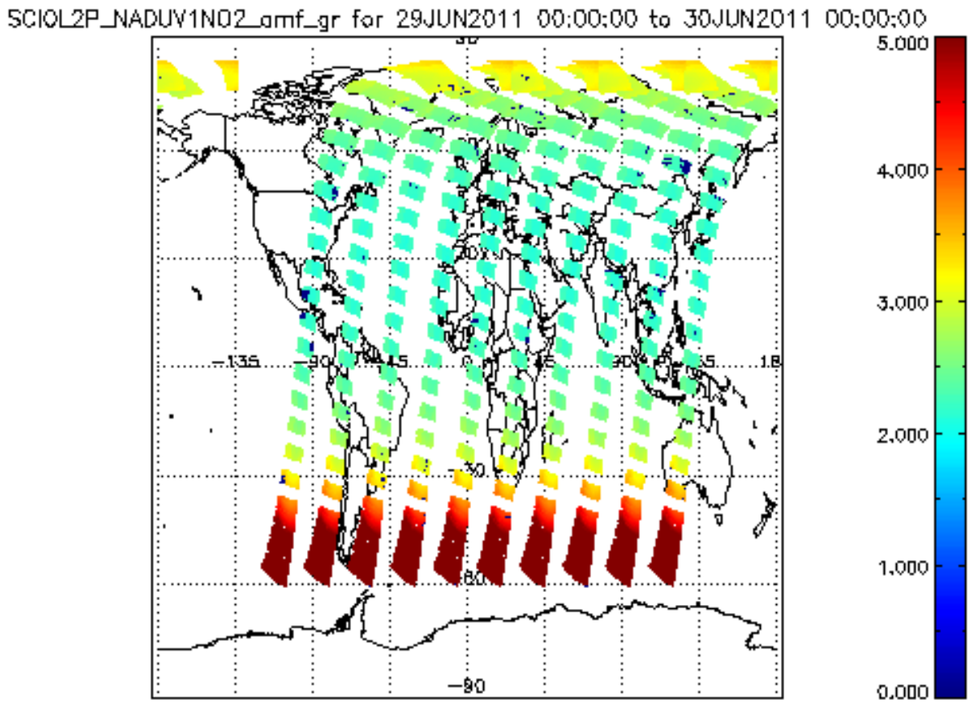

Time trend plot of SCIOL2P_NADUV1NO2_vcd_err [rel. fraction].
Value
0.4
0.3
0.2
0.1
0.0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

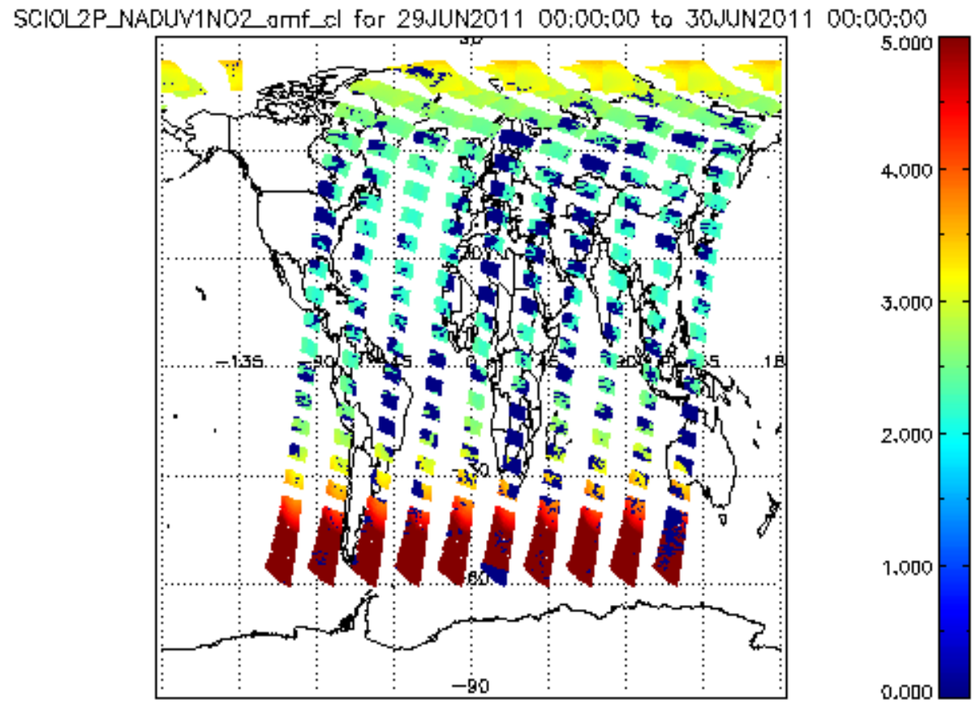

Time trend plot of SCIOL2P_NADUV1NO2_amf_gr [].
Value
5
4
3
2
1
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

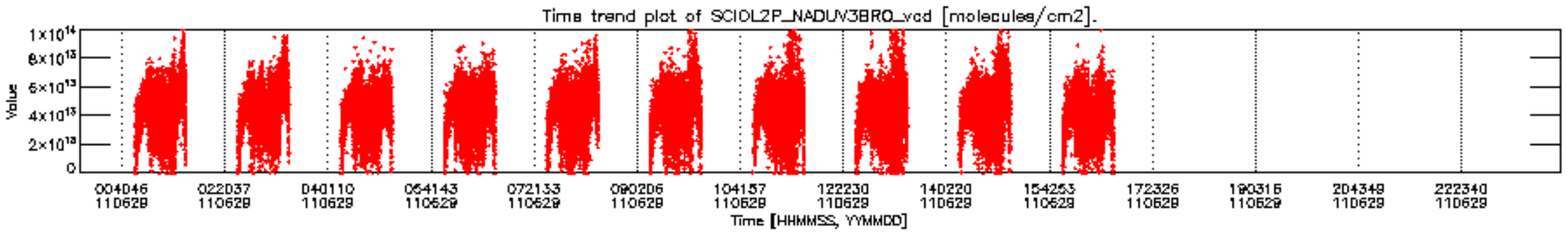

Time trend plot of SCIOL2P_NADUV1NO2_amf_cl [].
Value
5
4
3
2
1
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

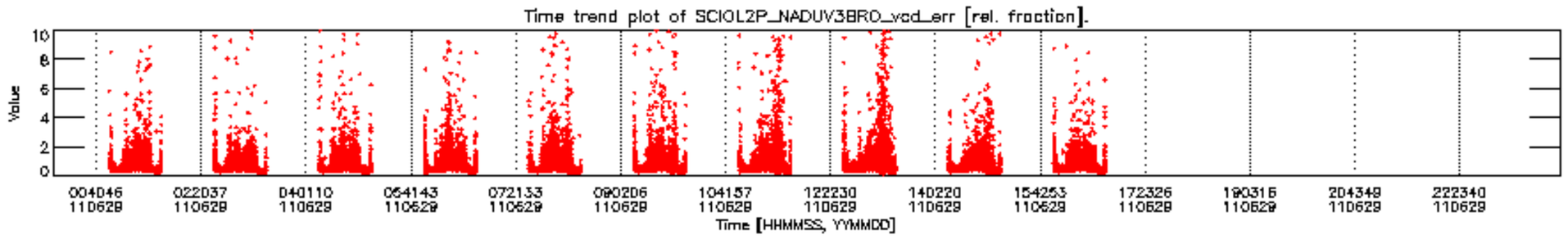

SCIOL2P_NADUV1NO2_vcd for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
1.000E+16
8.000E+15
6.000E+15
4.000E+15
2.000E+15
0.000
-135
-90
-45
0
45
90
135
180
30
60
-90

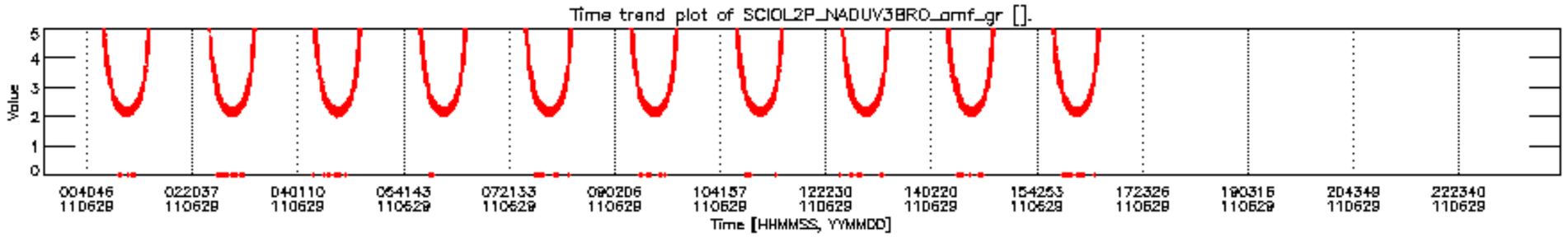

SCIOL2P_NADUV1NO2_vcd_err for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
0.4000
0.3000
0.2000
0.1000
0.000
-135
-90
-45
0
45
90
135
180
30
60
-90

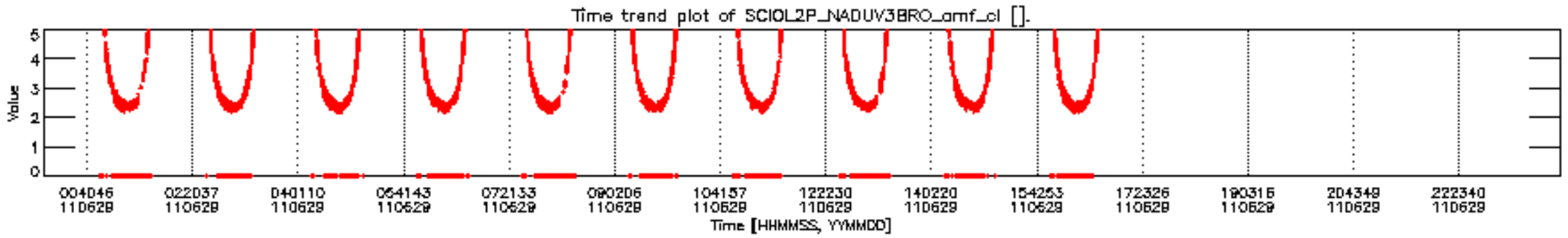

SCIOL2P_NADUV1NO2_amf_gr for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-135
-90
-45
0
45
90
135
180
30
60
-90

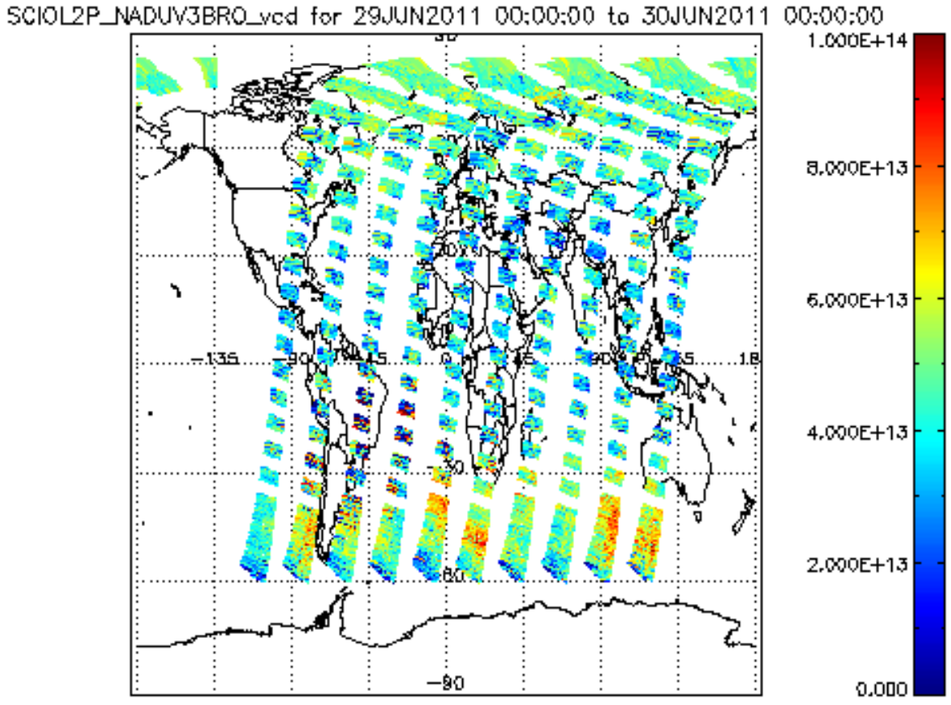

SCIOL2P_NADUV1NO2_amf_cl for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-135
-90
-45
0
45
90
135
180
30
60
-90

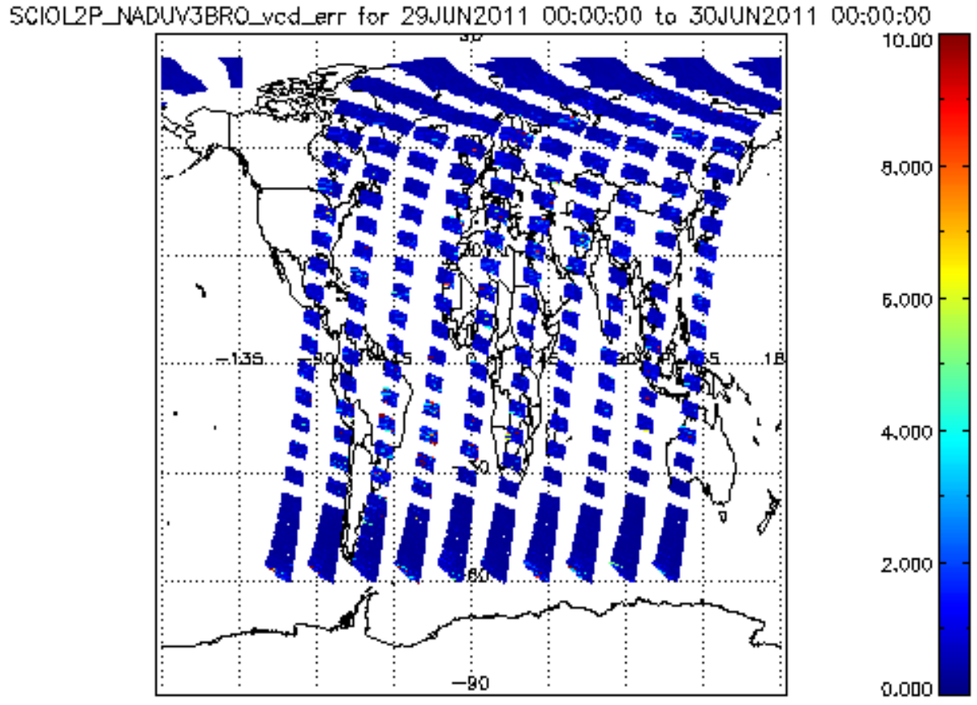

Time trend plot of SCIOL2P_NADUV3BRO_vcd [molecules/cm2].
Value
1x10^14
8x10^13
6x10^13
4x10^13
2x10^13
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190316 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

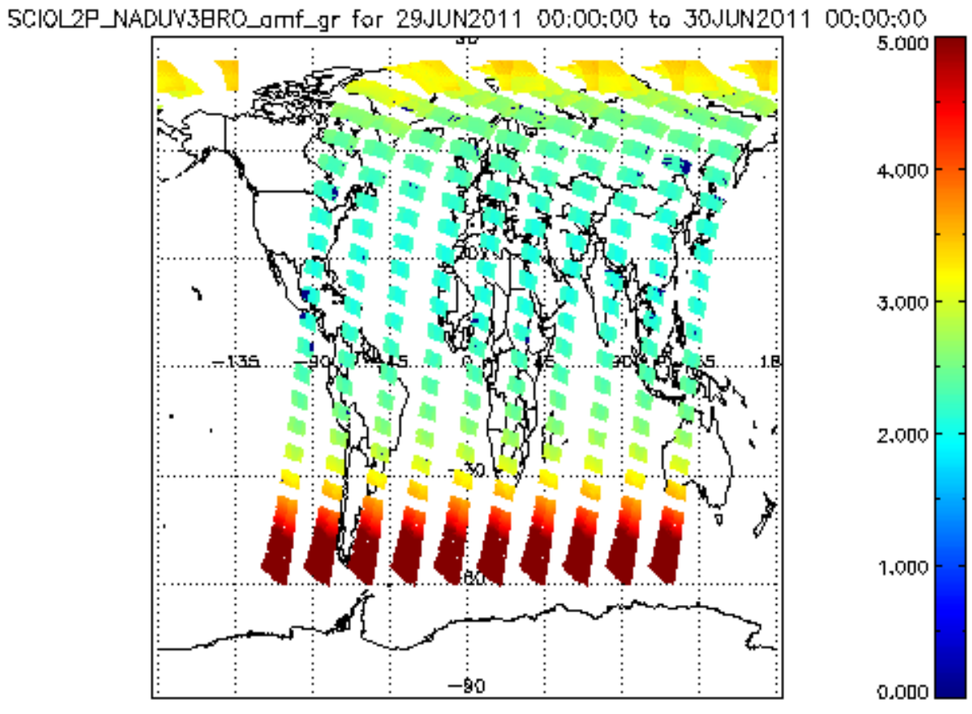

Time trend plot of SCIOL2P_NADUV3BRO_vcd_err [rel. fraction].
Value
10
8
6
4
2
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190316 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

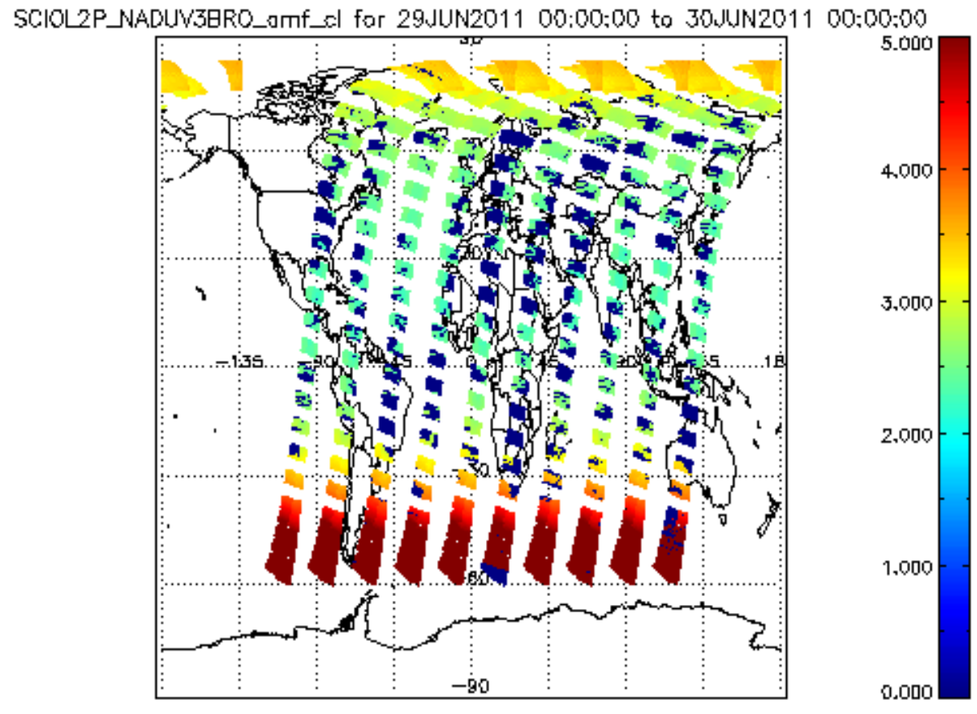

Time trend plot of SCIOL2P_NADUV3BRO_amf_gr [].
Value
5
4
3
2
1
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190316 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

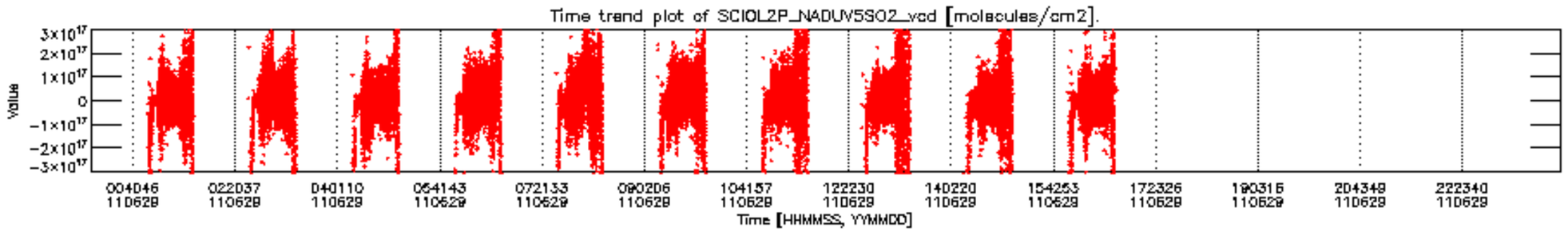

Time trend plot of SCIOL2P_NADUV3BRO_amf_cl [].
Value
5
4
3
2
1
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190316 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

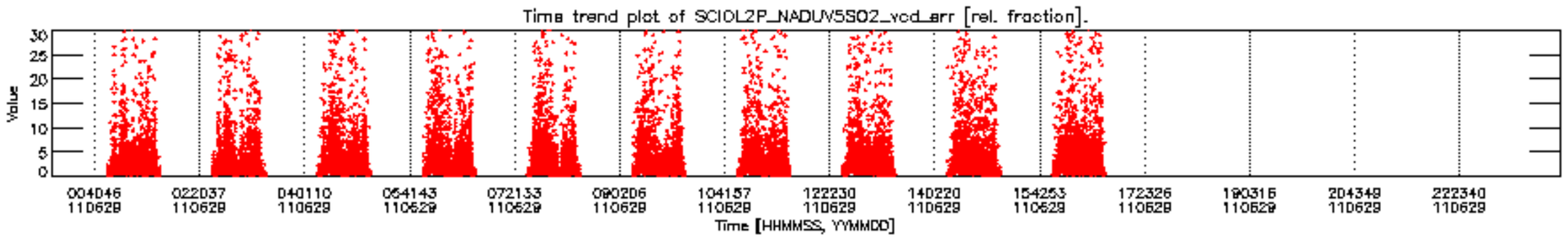

SCIOL2P_NADUV3BRO_vcd for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
1.000E+14
8.000E+13
6.000E+13
4.000E+13
2.000E+13
0.000
-135
-90
-45
0
45
90
135
180
30
0
-30
-60
-90

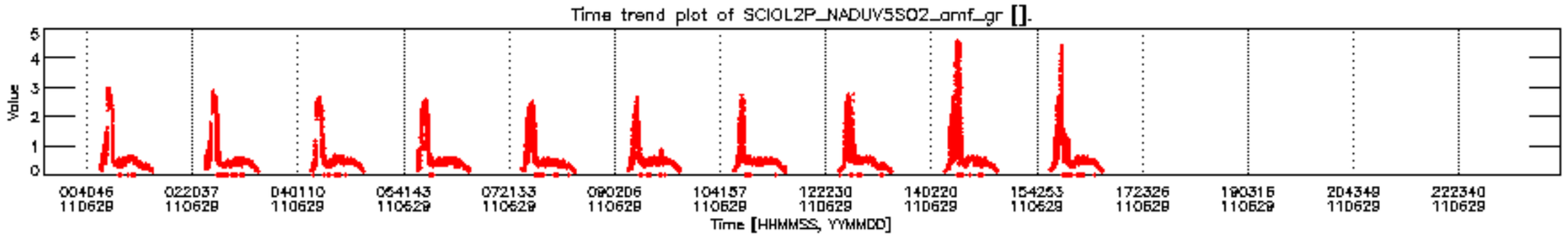

SCIOL2P_NADUV3BRO_vcd_err for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
10.00
8.000
6.000
4.000
2.000
0.000
-135
-90
-45
0
45
90
135
180
30
0
-30
-60
-90

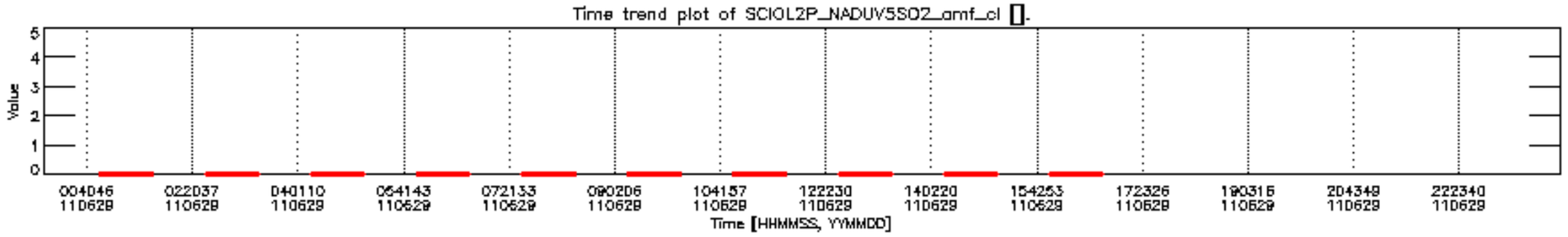

SCIOL2P_NADUV3BRO_amf_gr for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-135
-90
-45
0
45
90
135
180
30
0
-30
-60
-90

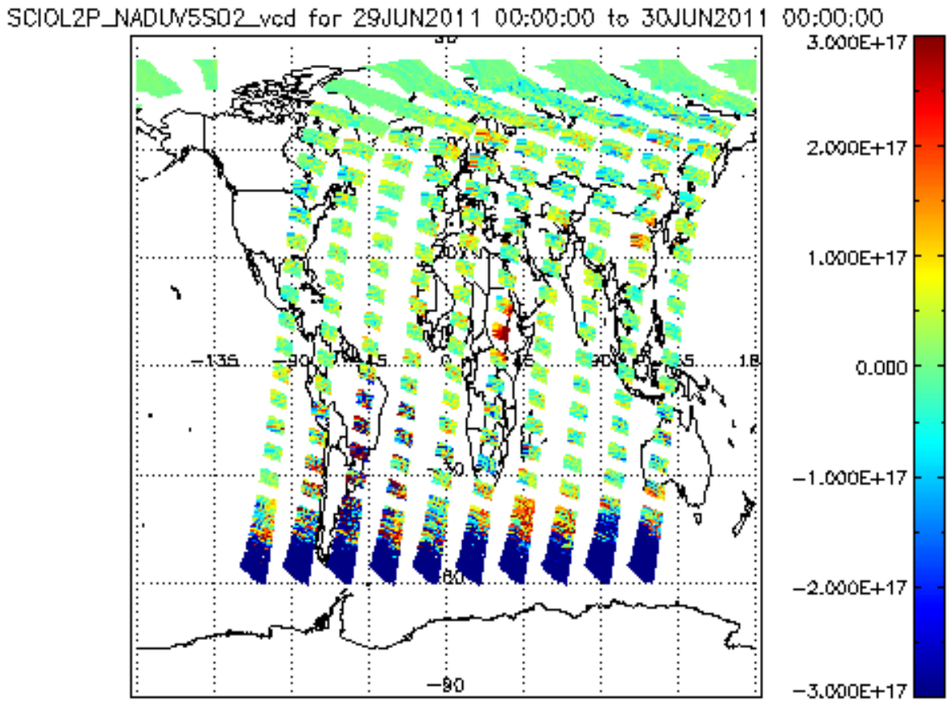

SCIOL2P_NADUV3BRO_amf_cl for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-135
-90
-45
0
45
90
135
180
30
0
-30
-60
-90

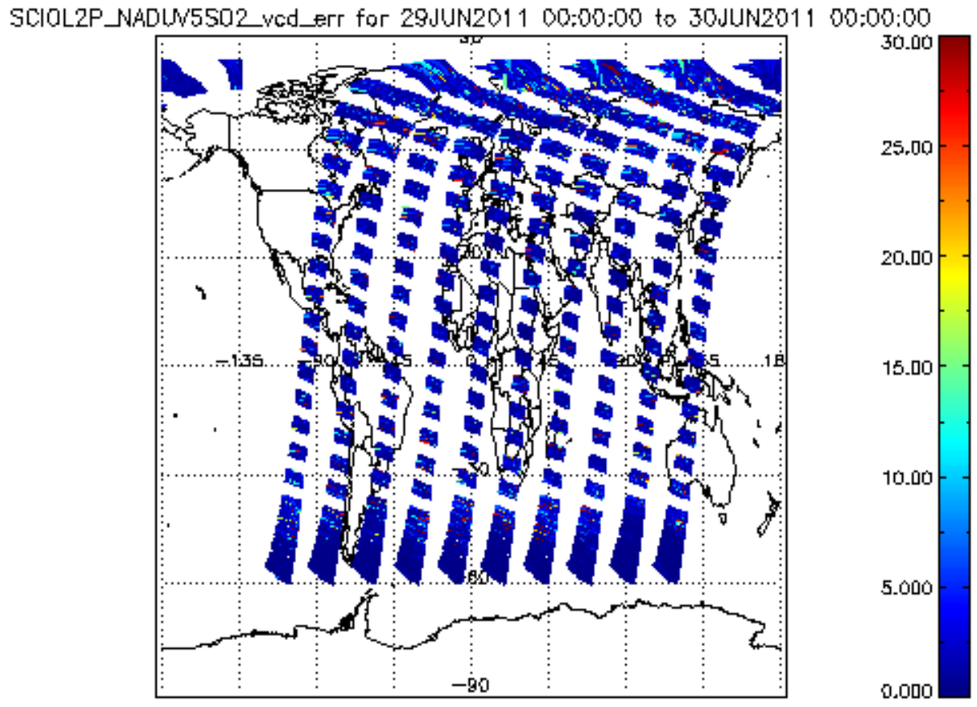

Time trend plot of SCIOL2P_NADUV5SO2_vcd [molecules/cm2].
Value
3x10^17
2x10^17
1x10^17
0
-1x10^17
-2x10^17
-3x10^17
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190316 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

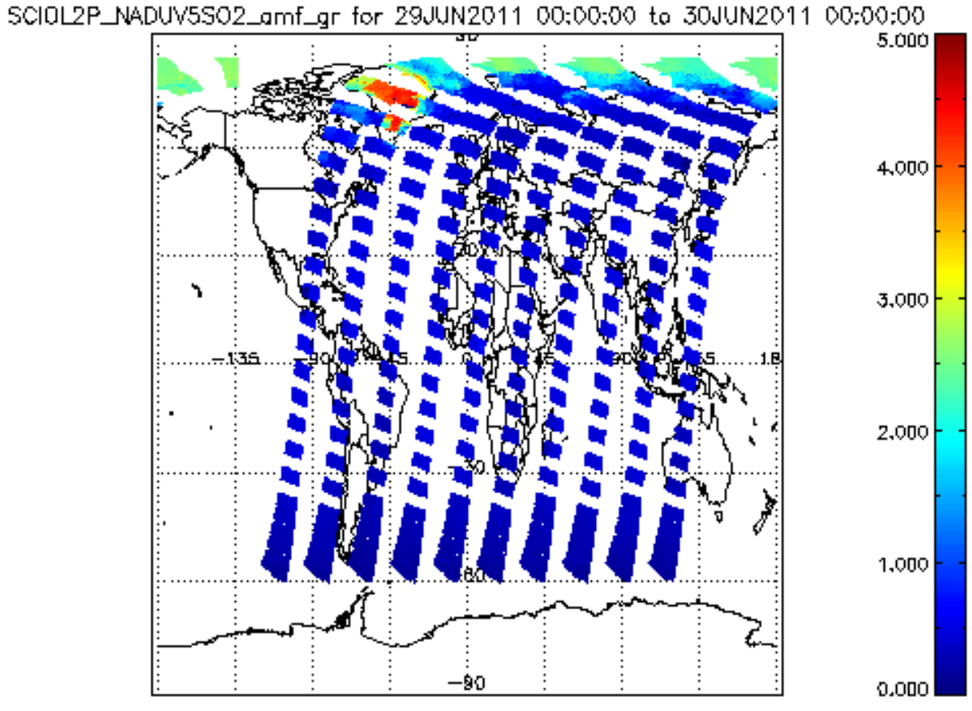

Time trend plot of SCIOL2P_NADUV5SO2_vcd_err [rel. fraction].
Value
30
25
20
15
10
5
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190316 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

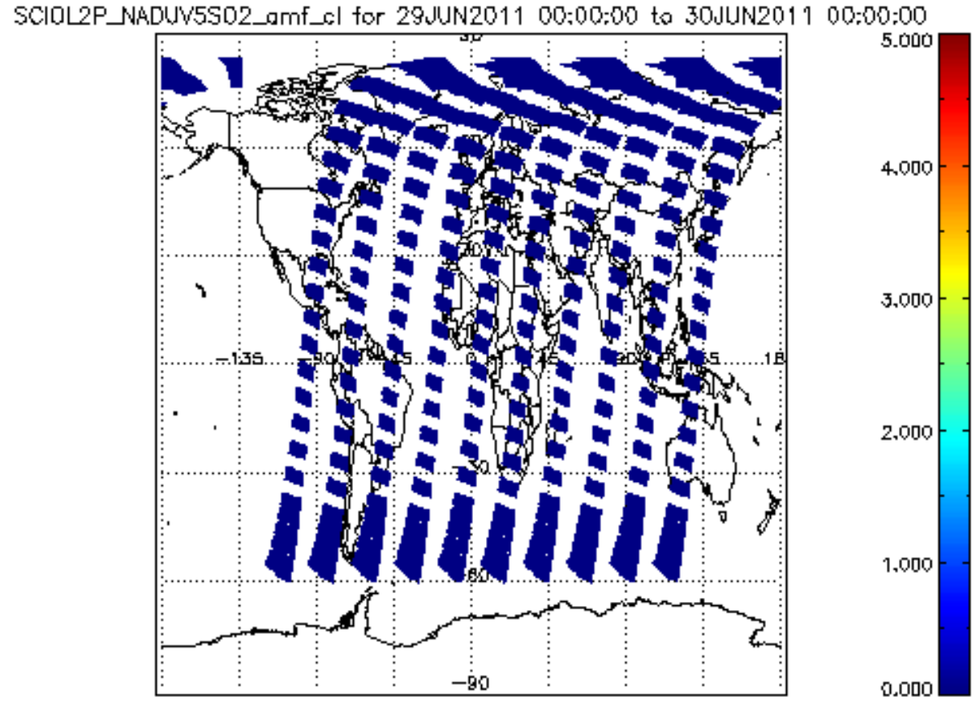

Time trend plot of SCIOL2P_NADUV5SO2_amf_gr [].
Value
5
4
3
2
1
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190316 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

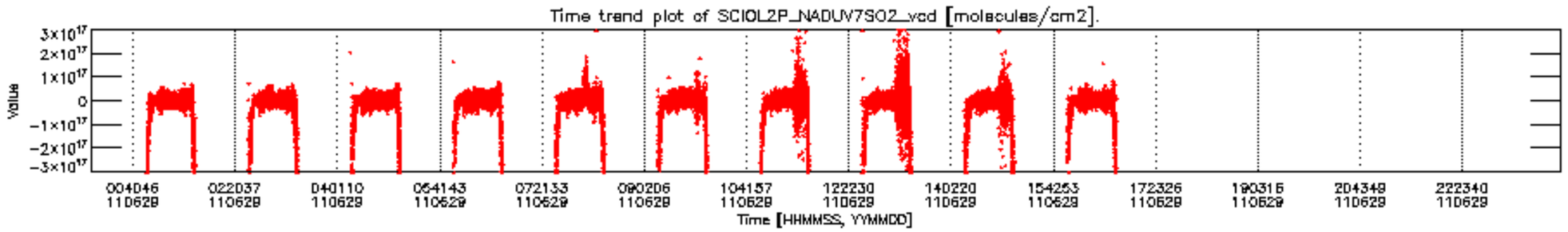

Time trend plot of SCIOL2P_NADUV5SO2_amf_cl [].
Value
5
4
3
2
1
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190316 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

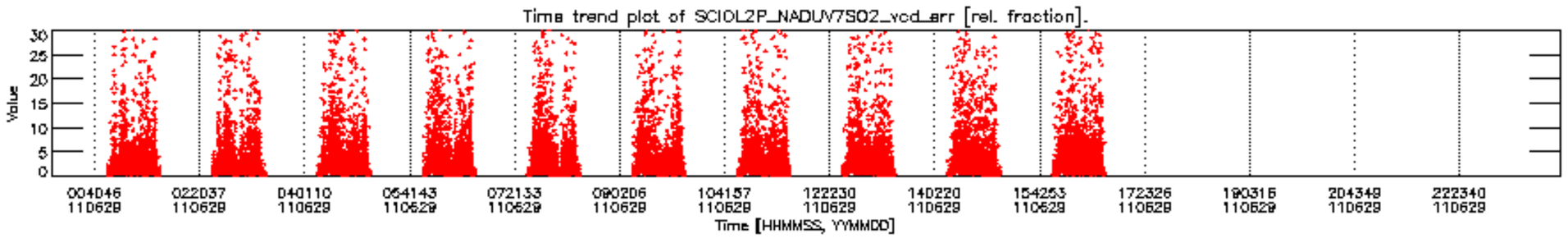

SCIOL2P_NADUV5SO2_vcd for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
3.000E+17
2.000E+17
1.000E+17
0.000
-1.000E+17
-2.000E+17
-3.000E+17
-135
-90
-45
0
45
90
135
180
60
30
-30
-60
-90

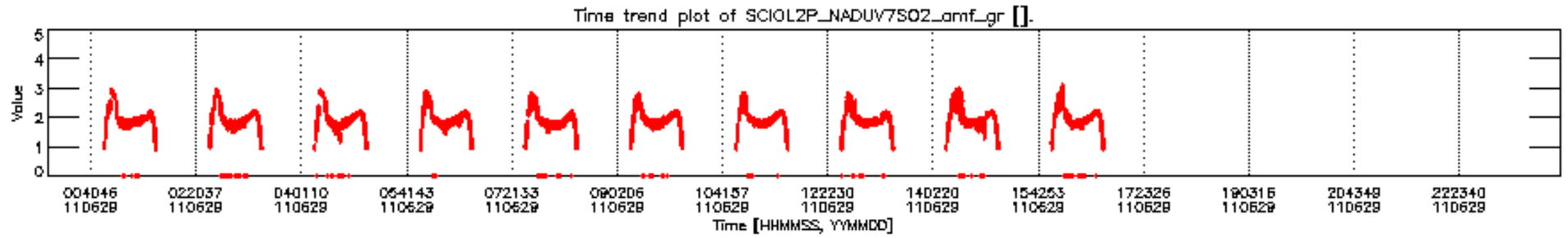

SCIOL2P_NADUV5SO2_vcd_err for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
-135
-90
-45
0
45
90
135
180
60
30
-30
-60
-90

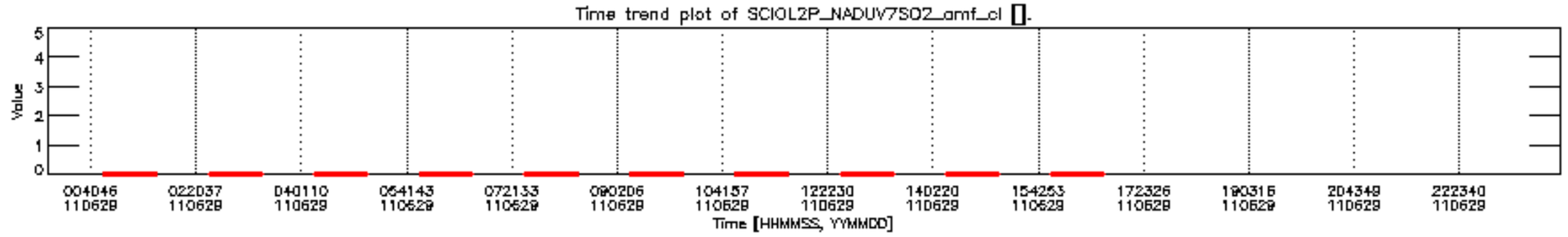

SCIOL2P_NADUV5SO2_amf_gr for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-135
-90
-45
0
45
90
135
180
60
30
-30
-60
-90

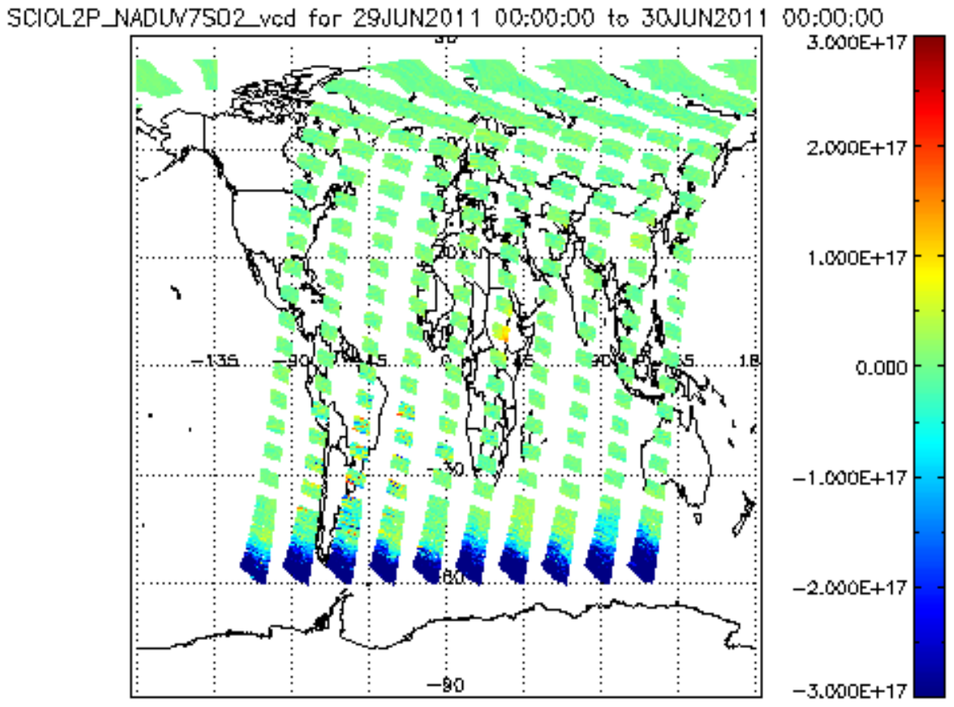

SCIOL2P_NADUV5SO2_amf_cl for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-135
-90
-45
0
45
90
135
180
60
30
-30
-60
-90

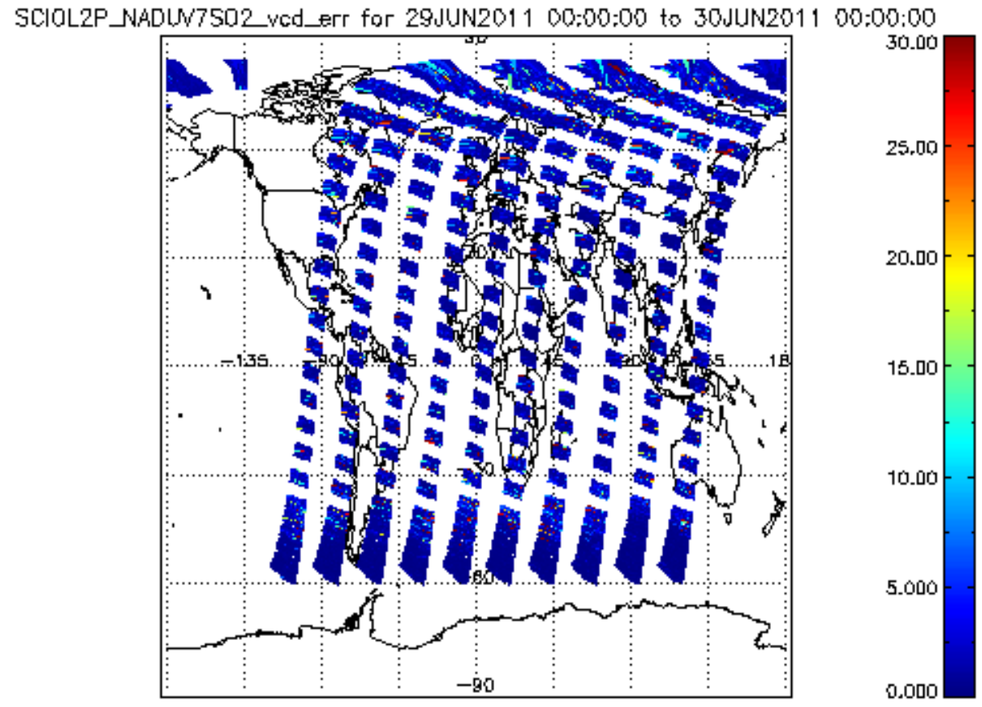

Time trend plot of SCIOL2P_NADUV7SO2_vcd [molecules/cm2].
Value
3x10^17
2x10^17
1x10^17
0
-1x10^17
-2x10^17
-3x10^17
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190316 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

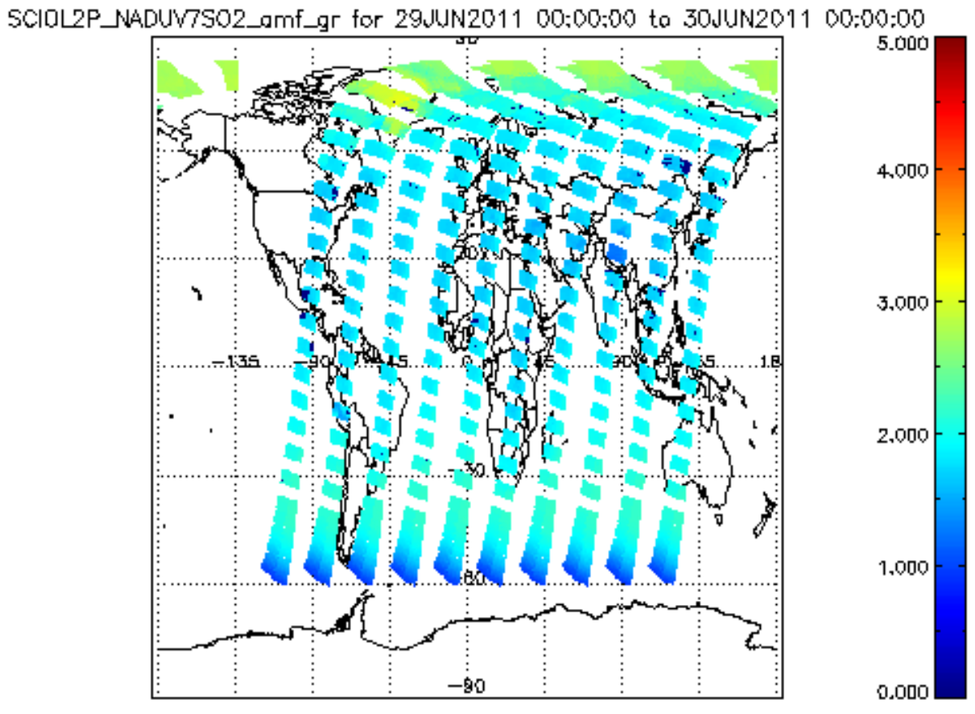

Time trend plot of SCIOL2P_NADUV7SO2_vcd_err [rel. fraction].
Value
30
25
20
15
10
5
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190316 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

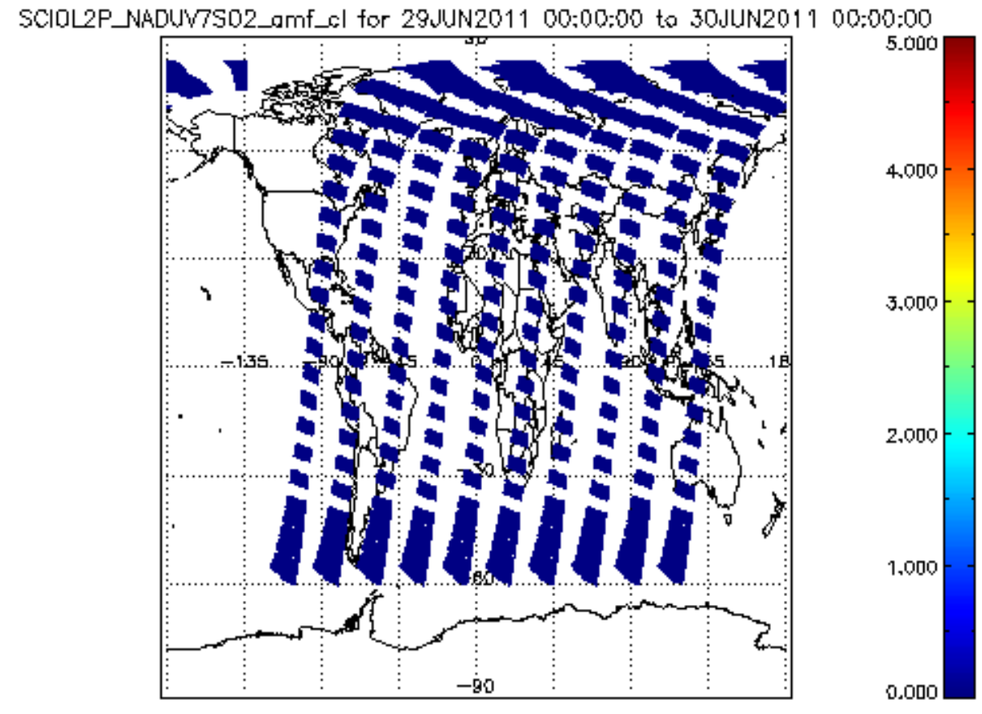

Time trend plot of SCIOL2P_NADUV7SO2_amf_gr [].
Value
5
4
3
2
1
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190316 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

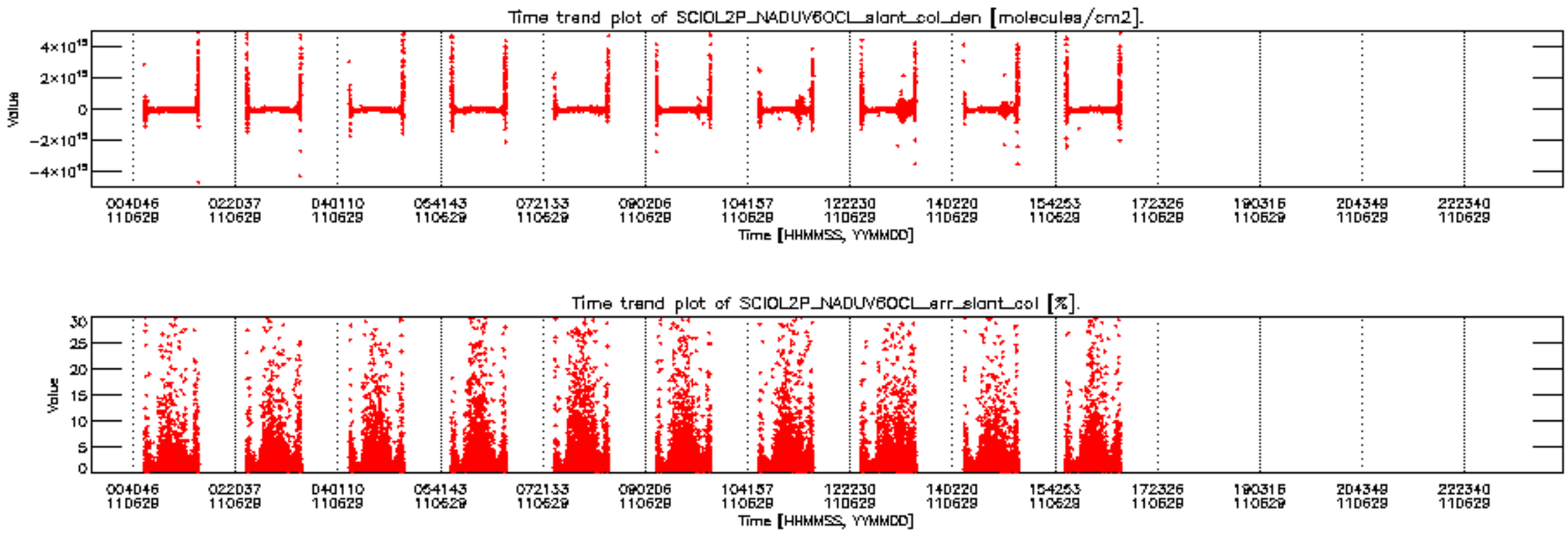

Time trend plot of SCIOL2P_NADUV7SO2_amf_cl [].
Value
5
4
3
2
1
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190316 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

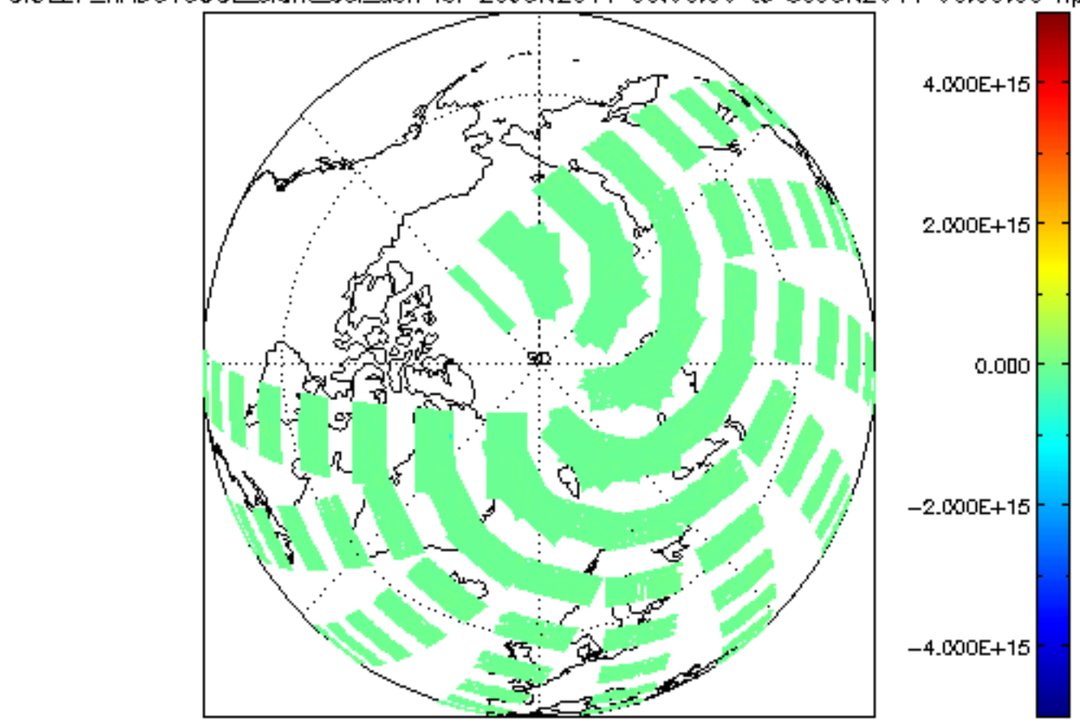

SCIOL2P_NADUV7SO2_vcd for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
3.000E+17
2.000E+17
1.000E+17
0.000
-1.000E+17
-2.000E+17
-3.000E+17
-135
-90
-45
0
45
90
135
180
60
30
-30
-60
-90

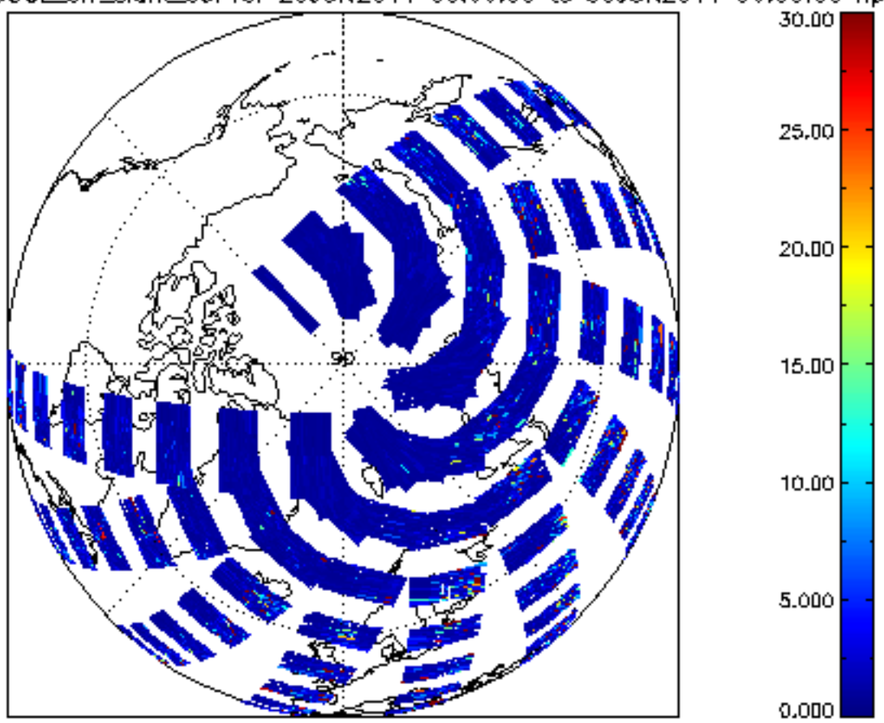

SCIOL2P_NADUV7SO2_vcd_err for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
-135
-90
-45
0
45
90
135
180
60
30
-30
-60
-90

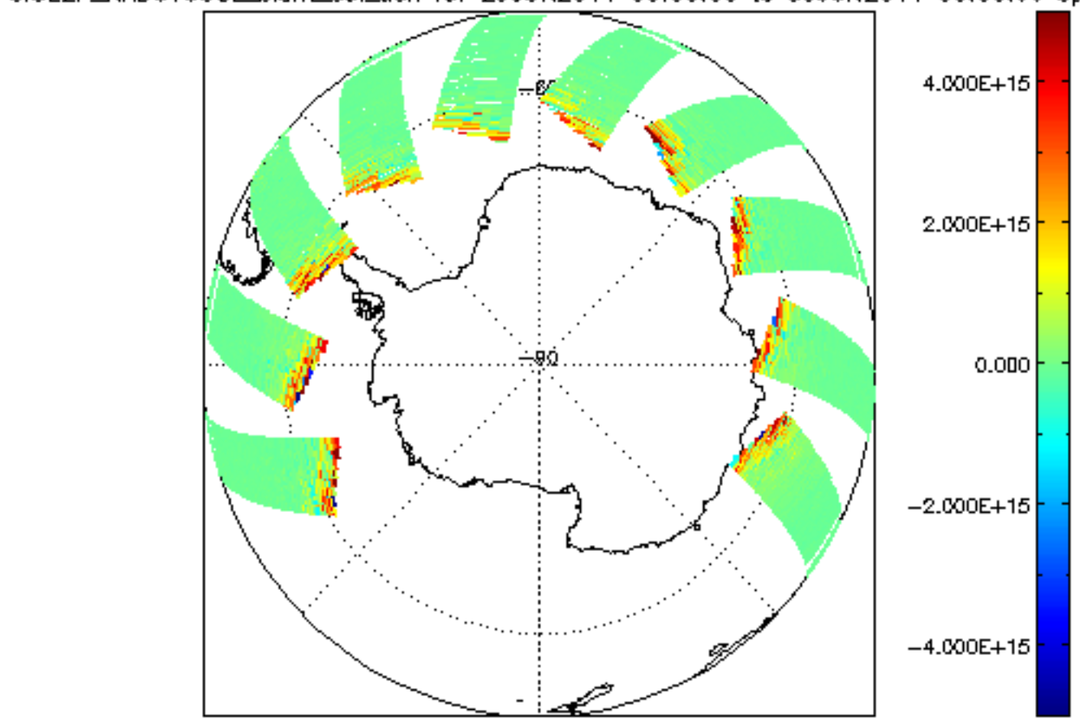

SCIOL2P_NADUV7SO2_amf_gr for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-135
-90
-45
0
45
90
135
180
60
30
-30
-60
-90

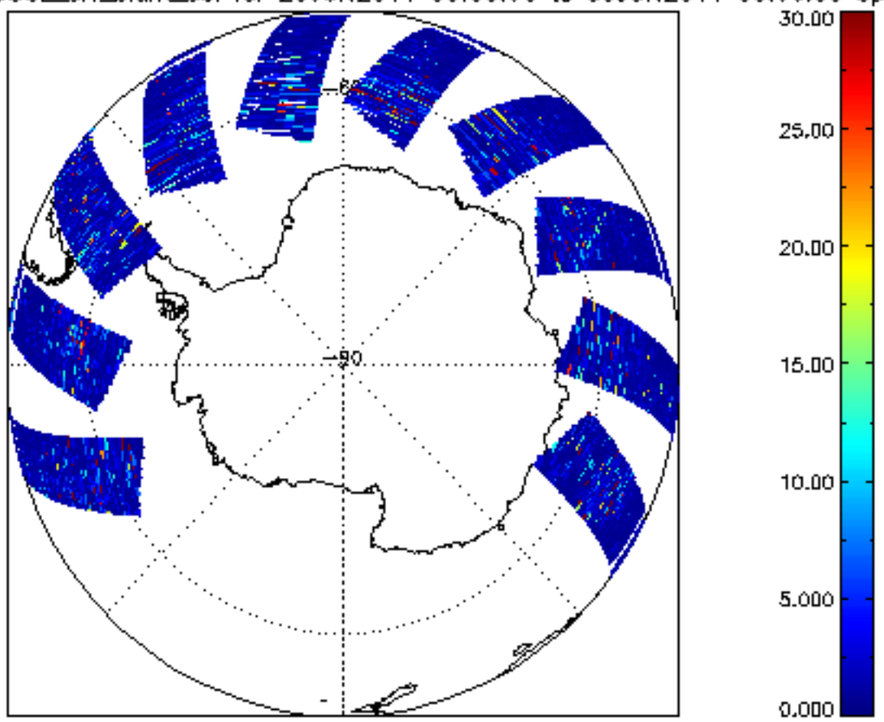

SCIOL2P_NADUV7SO2_amf_cl for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-135
-90
-45
0
45
90
135
180
60
30
-30
-60
-90

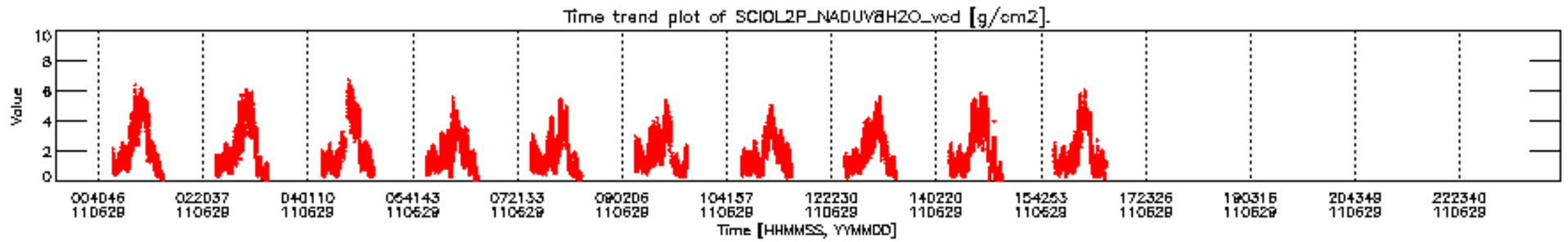

Time trend plot of SCIOL2P_NADUV6OCL_slant_col_den [molecules/cm2].
Value
4×10¹⁵
2×10¹⁵
0
−2×10¹⁵
−4×10¹⁵
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]
Time trend plot of SCIOL2P_NADUV6OCL_arr_slant_col [%].
Value
30
25
20
15
10
5
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

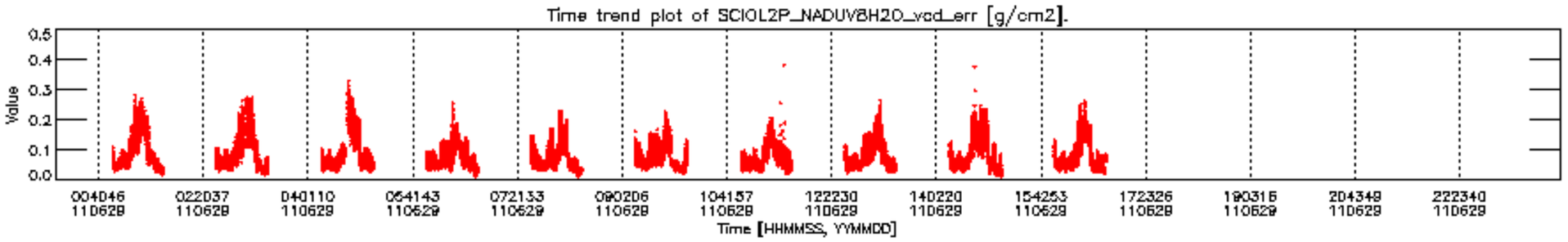

CIOL2P_NADUV6OCL_slant_col_den for 29JUN2011 00:00:00 to 30JUN2011 00:00:00 np
4.000E+15
2.000E+15
0.000
−2.000E+15
−4.000E+15

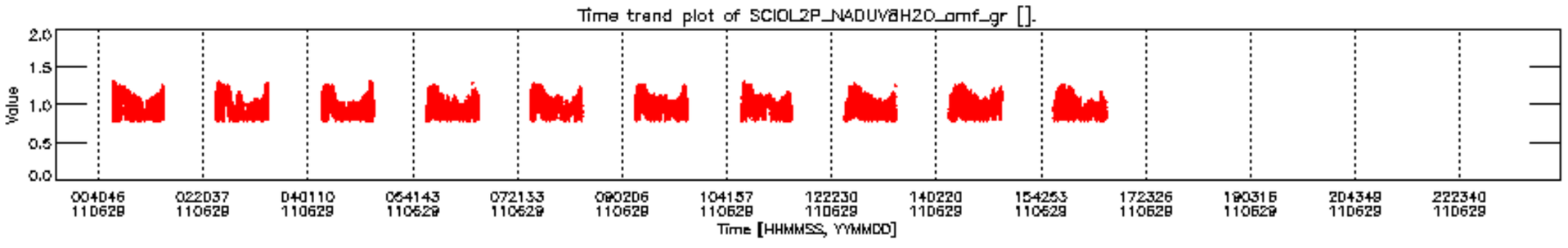

CIOL2P_NADUV6OCL_err_slant_col for 29JUN2011 00:00:00 to 30JUN2011 00:00:00 np
30.00
25.00
20.00
15.00
10.00
5.000
0.000


ClOL2P_NADUV6OCL_slant_col_den for 29JUN2011 00:00:00 to 30JUN2011 00:00:00 sp
4.000E+15
2.000E+15
0.000
−2.000E+15
−4.000E+15
−90

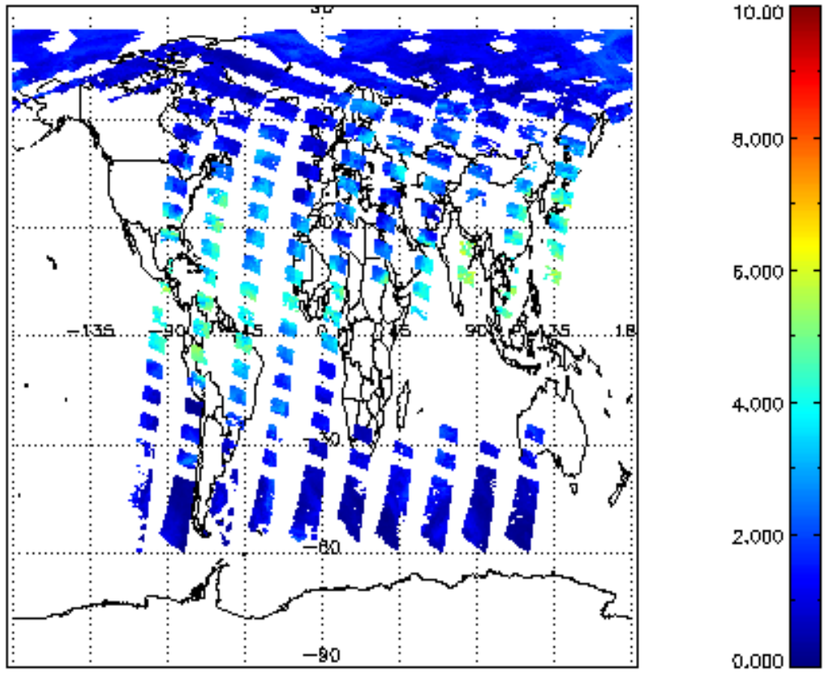

ClOL2P_NADUV6OCL_err_slant_col for 29JUN2011 00:00:00 to 30JUN2011 00:00:00 sp
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−90


Time trend plot of SCIOL2P_NADUVBH2O_vcd [g/cm2].
Value
10
8
6
4
2
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190316 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

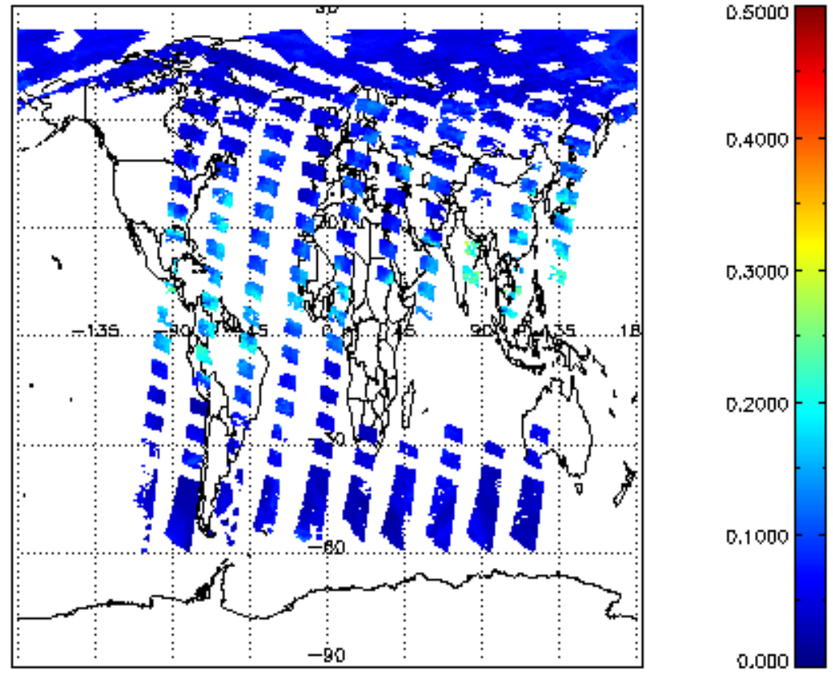

Time trend plot of SCIOL2P_NADUVBH2O_vcd_err [g/cm2].
Value
0.5
0.4
0.3
0.2
0.1
0.0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190316 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUVBH2O_amf_gr [].
Value
2.0
1.5
1.0
0.5
0.0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190316 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

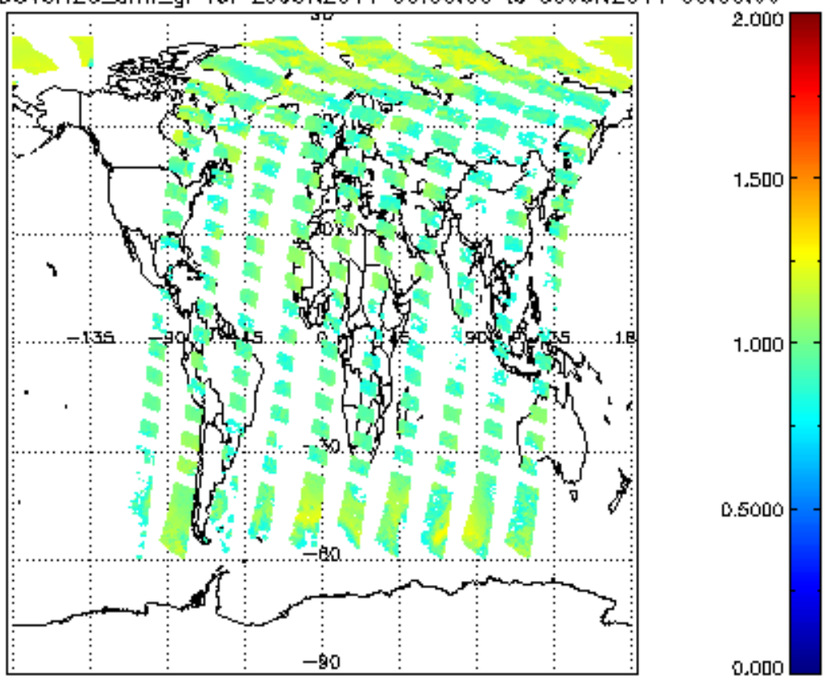
SCIOL2P_NADUV8H2O_vcd for 29JUN2011 00:00:00 to 30JUN2011 00:00:00

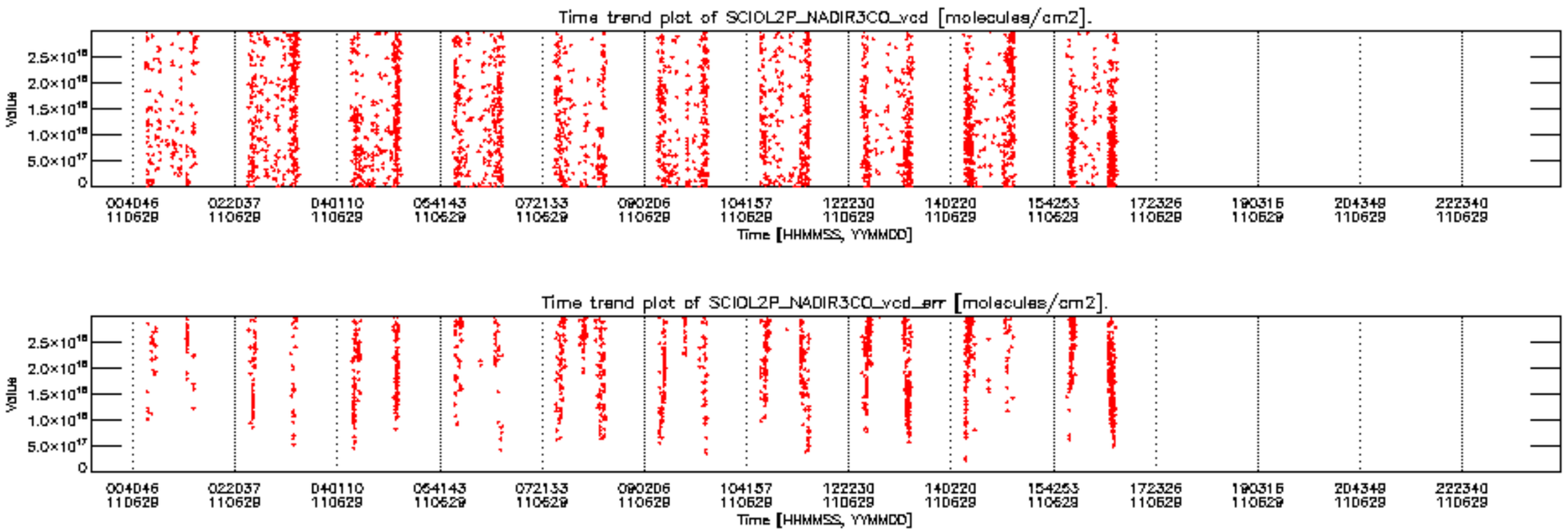


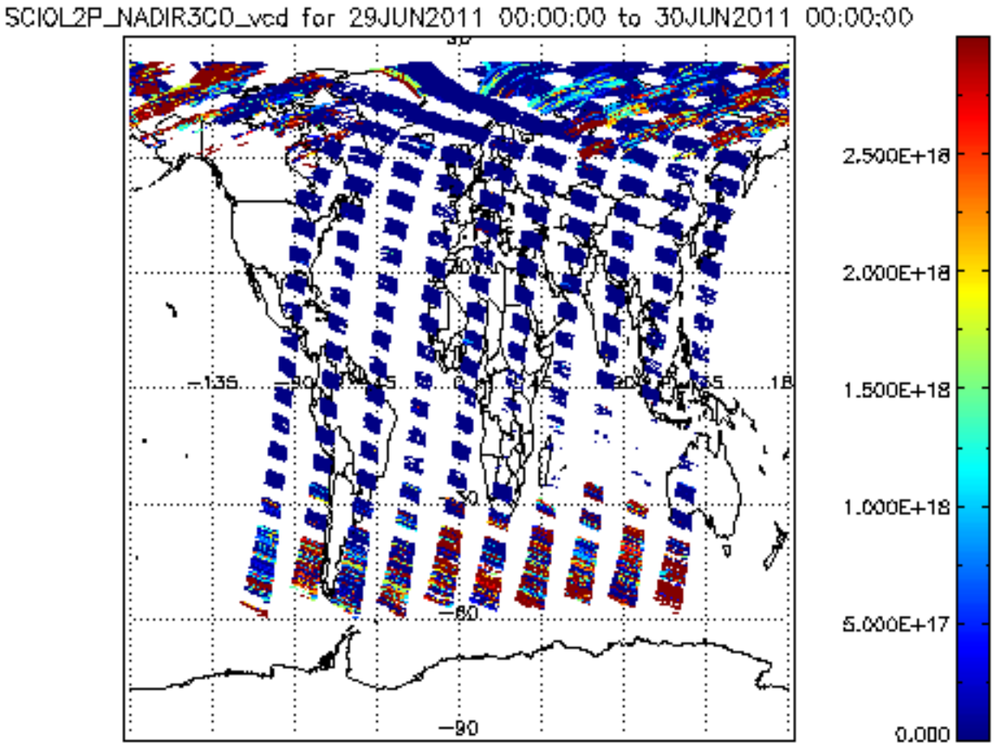
SCIOL2P_NADUV8H2O_vcd_err for 29JUN2011 00:00:00 to 30JUN2011 00:00:00

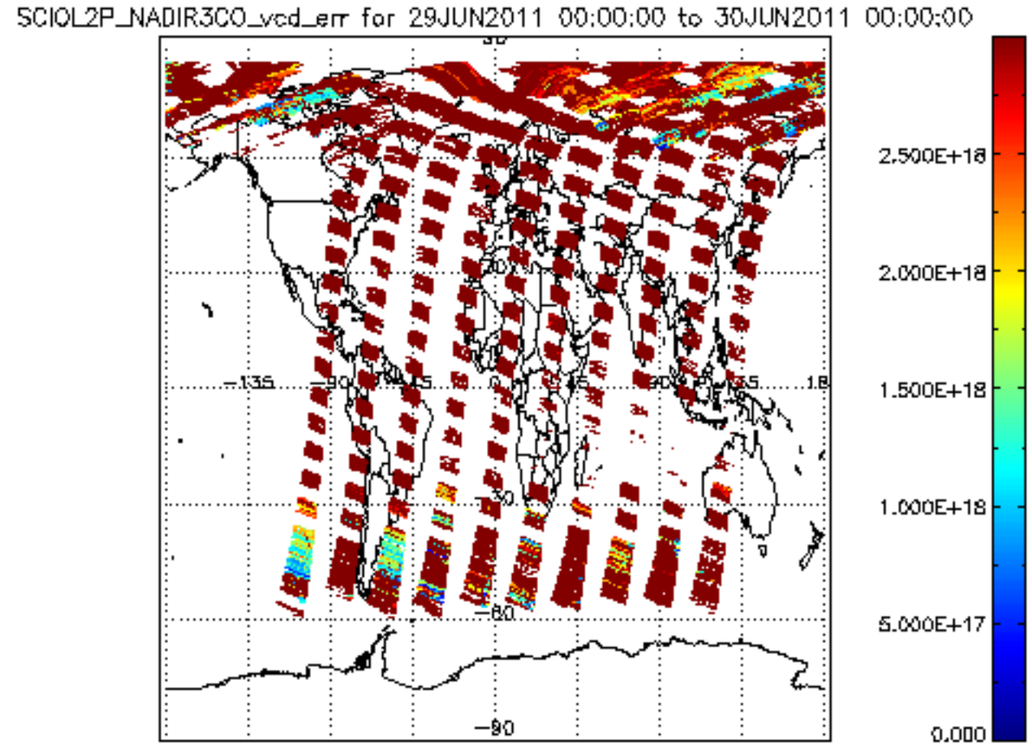


SCIOL2P_NADUV8H2O_amf_gr for 29JUN2011 00:00:00 to 30JUN2011 00:00:00

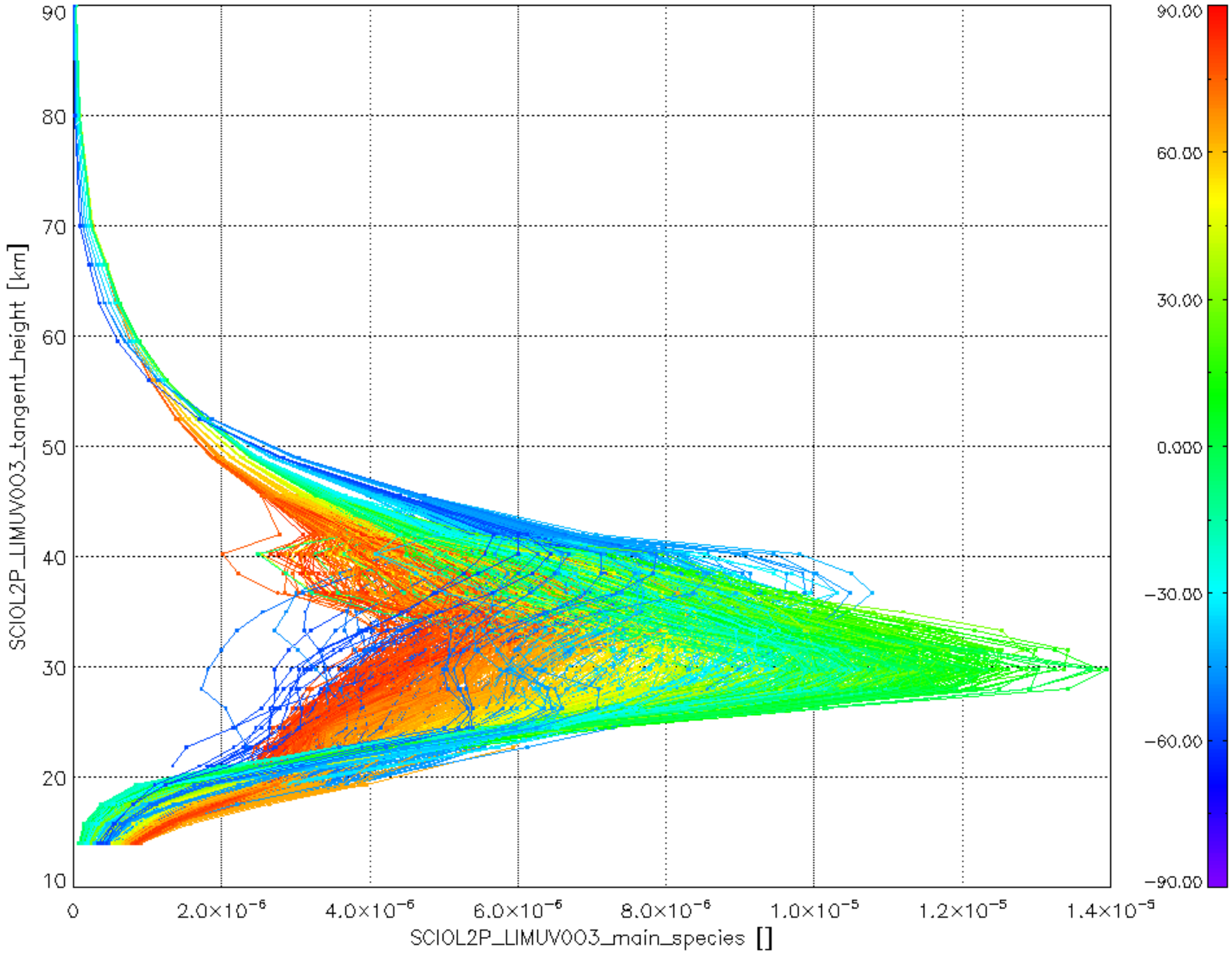



Time trend plot of SCIOL2P_NADIR3CO_vcd [molecules/cm2].
Value
2.5×10^18
2.0×10^18
1.5×10^18
1.0×10^18
5.0×10^17
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]
Time trend plot of SCIOL2P_NADIR3CO_vcd_err [molecules/cm2].
Value
2.5×10^18
2.0×10^18
1.5×10^18
1.0×10^18
5.0×10^17
0
004046 110629
022037 110629
040110 110629
054143 110629
072133 110629
090206 110629
104157 110629
122230 110629
140220 110629
154253 110629
172326 110629
190315 110629
204349 110629
222340 110629
Time [HHMMSS, YYMMDD]

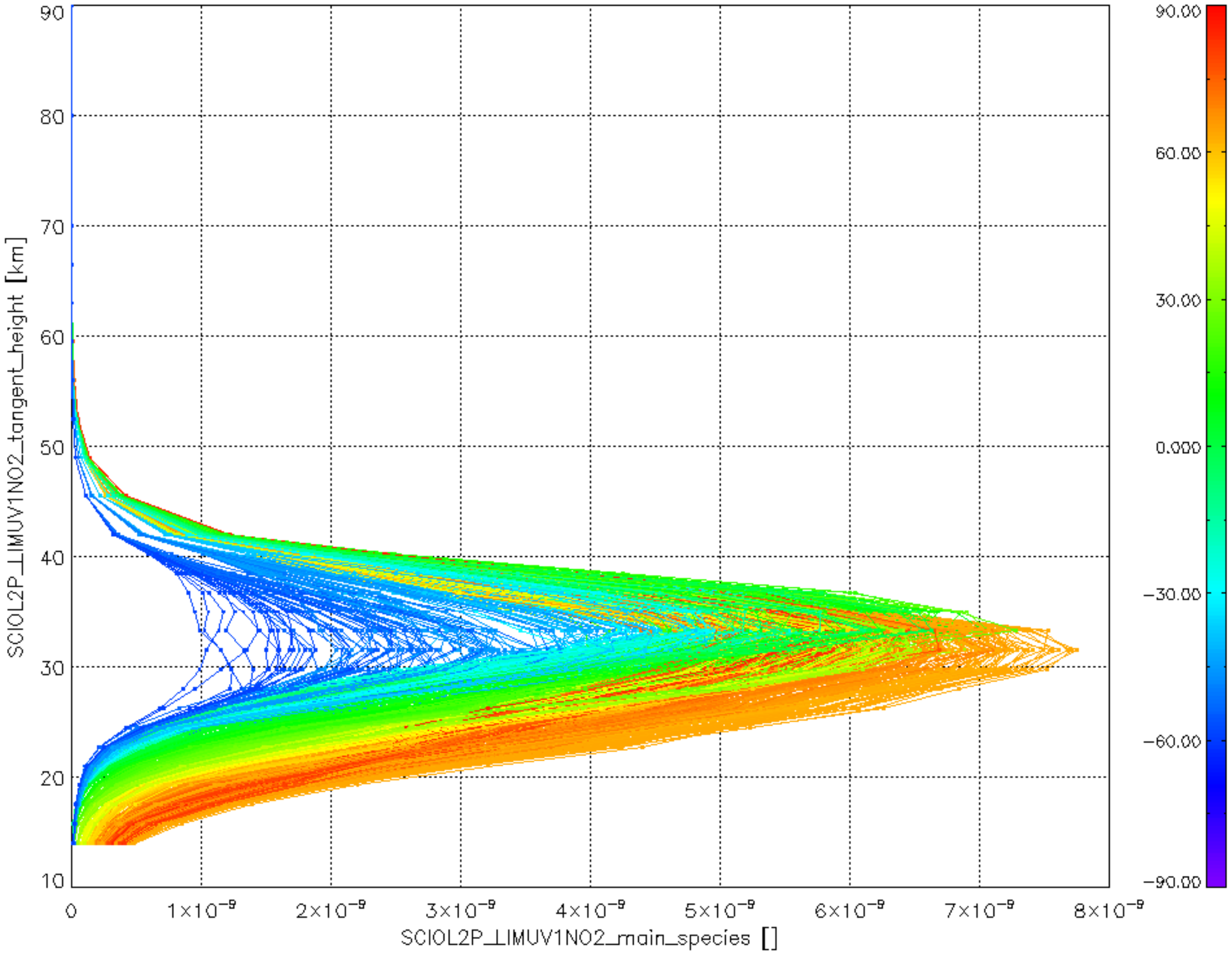

SCIOL2P_NADIR3CO_vcd for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
2.500E+18
2.000E+18
1.500E+18
1.000E+18
5.000E+17
0.000
−135
−90
−45
0
45
90
135
180
−60
−90

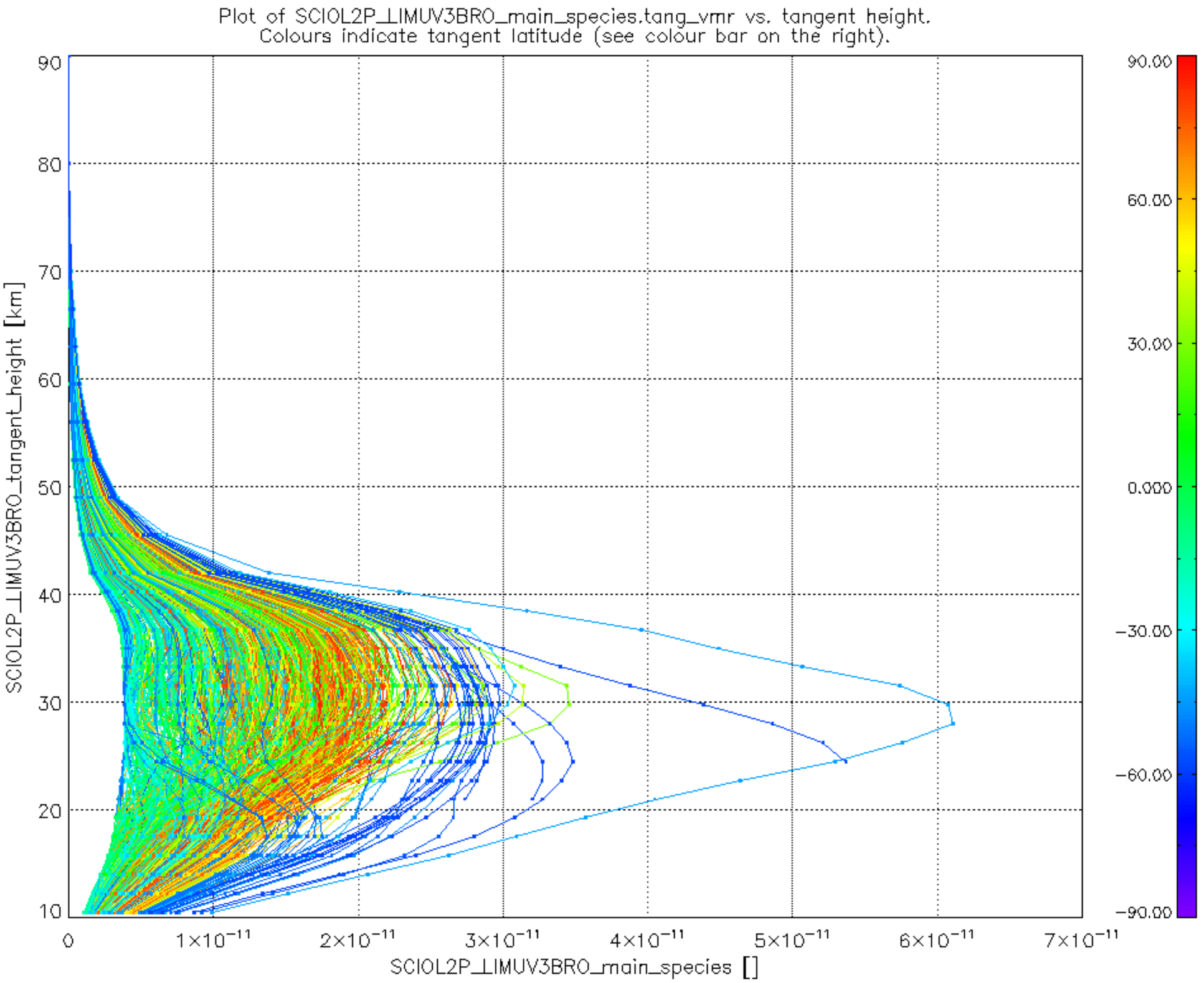

SCIOL2P_NADIR3CO_vcd_err for 29JUN2011 00:00:00 to 30JUN2011 00:00:00
2.500E+18
2.000E+18
1.500E+18
1.000E+18
5.000E+17
0.000
−135
−90
−45
0
45
90
135
180
−60
−90

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).




Plot of SCIOL2P_LIMUV3BRO_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).
SCIOL2P_LIMUV3BRO_tangent_height [km]
90
80
70
60
50
40
30
20
10
0
1×10⁻¹¹
2×10⁻¹¹
3×10⁻¹¹
4×10⁻¹¹
5×10⁻¹¹
6×10⁻¹¹
7×10⁻¹¹
SCIOL2P_LIMUV3BRO_main_species []
90.00
60.00
30.00
0.000
−30.00
−60.00
−90.00