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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	09MAY2011 03:01:58
Data source version	SCIA-OL/5.01-U
Processing scope for products	19APR2011 00:00:00 to 20APR2011 00:00:00
Start time of first product within scope	18APR2011 23:12:08
Stop time of last product within scope	19APR2011 23:34:53
Total number of level 2 products	14
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__2PUDPA20110418_231208_000035303101_00332_47760_4208.N1	18APR2011 23:12:08	19APR2011 00:10:58	0	GOOD
1	SCI_OL__2PUDPA20110419_023727_000032823101_00334_47762_4215.N1	19APR2011 02:37:27	19APR2011 03:32:09	0	GOOD
2	SCI_OL__2PUDPA20110419_041632_000033383101_00335_47763_4216.N1	19APR2011 04:16:32	19APR2011 05:12:10	0	GOOD
3	SCI_OL__2PUDPA20110419_055754_000032823101_00336_47764_4209.N1	19APR2011 05:57:54	19APR2011 06:52:36	0	GOOD
4	SCI_OL__2PUDPA20110419_073659_000033383101_00337_47765_4210.N1	19APR2011 07:36:59	19APR2011 08:32:37	0	GOOD

5	SCI_OL__2PUDPA20110419_091821_000032823101_00338_47766_4211.N1	19APR2011 09:18:21	19APR2011 10:13:04	0	GOOD
6	SCI_OL__2PUDPA20110419_105726_000033383101_00339_47767_4212.N1	19APR2011 10:57:26	19APR2011 11:53:05	0	GOOD
7	SCI_OL__2PUDPA20110419_123849_000032823101_00340_47768_4213.N1	19APR2011 12:38:49	19APR2011 13:33:31	0	GOOD
8	SCI_OL__2PUDPA20110419_141754_000033383101_00341_47769_4227.N1	19APR2011 14:17:54	19APR2011 15:13:32	0	GOOD
9	SCI_OL__2PUDPA20110419_155916_000032823101_00342_47770_4228.N1	19APR2011 15:59:16	19APR2011 16:53:58	0	GOOD
10	SCI_OL__2PUDPA20110419_173833_000033383101_00343_47771_4218.N1	19APR2011 17:38:33	19APR2011 18:34:11	0	GOOD
11	SCI_OL__2PUDPA20110419_191955_000032133101_00344_47772_4217.N1	19APR2011 19:19:55	19APR2011 20:13:29	0	GOOD
12	SCI_OL__2PUDPA20110419_205848_000033383101_00345_47773_4225.N1	19APR2011 20:58:48	19APR2011 21:54:27	0	GOOD
13	SCI_OL__2PUDPA20110419_224010_000032823101_00346_47774_4226.N1	19APR2011 22:40:10	19APR2011 23:34:53	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: 157748

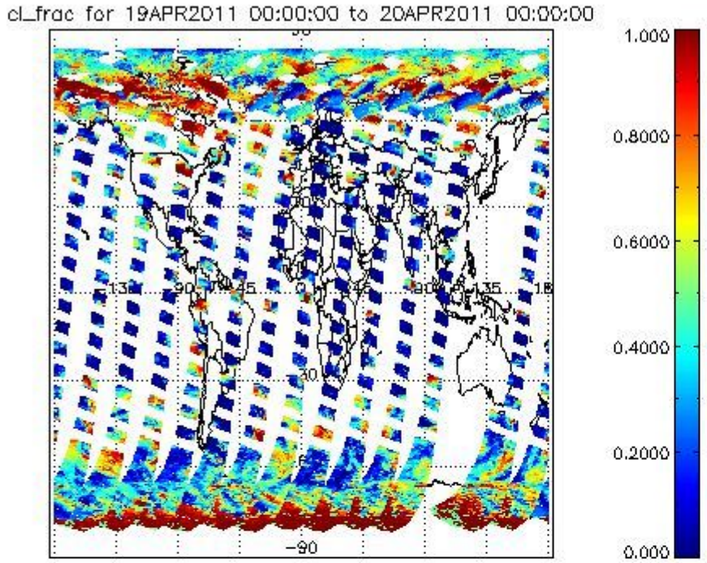
Total number of cloud data DSRs with good quality flag (=0): 157748 (100.0 %)

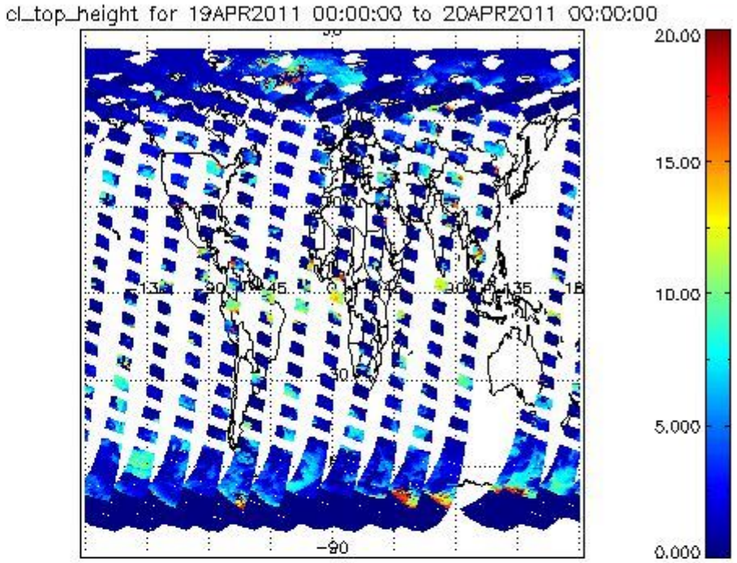
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	157748	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	157748	0.16394	0.12500	0.12500	0.25000	0.057889	s
CL_FRAC	157748	0.42992	0.40408	0.0000	1.0000	0.32768	
CL_FRAC_ERR	157748	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	157748	5.2460	4.0000	4.0000	8.0000	1.8524	
PMD_READ_CL[0]	157748	0.49336	0.0000	0.0000	8.0000	1.2935	-
PMD_READ_CL[1]	157748	1.2846	0.0000	0.0000	8.0000	2.5682	-
CL_TOP_HEIGHT	119869	2.8571	1.3500	0.0000	17.000	3.2376	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	119869	68.243	100.00	0.0000	101.00	41.534	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	157748	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	157748	11001101	11000100	11000000	11100000	3624.5	
AERO_ABSO_IND	157748	0.27505	0.0000	0.0000	8.1286	0.55133	
AERO_IND_DIAG	157748	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	157748	01001111	00000000	00000000	11000000	24196.	

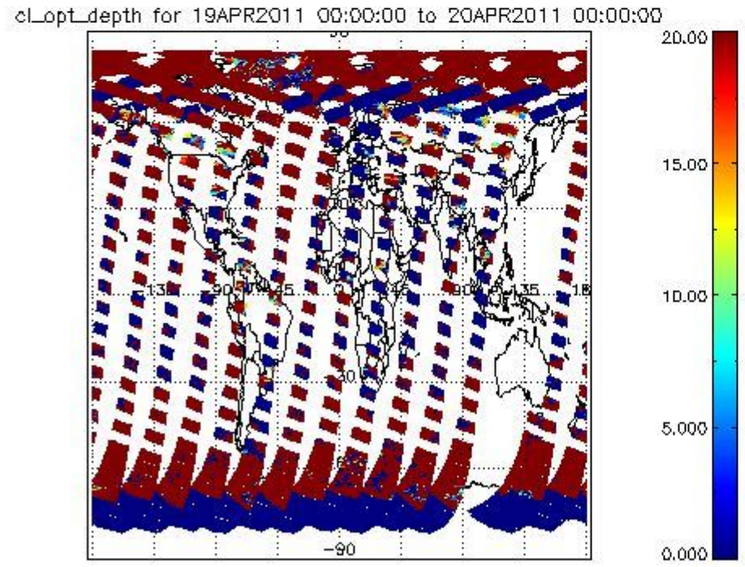
Time and geolocation plots:

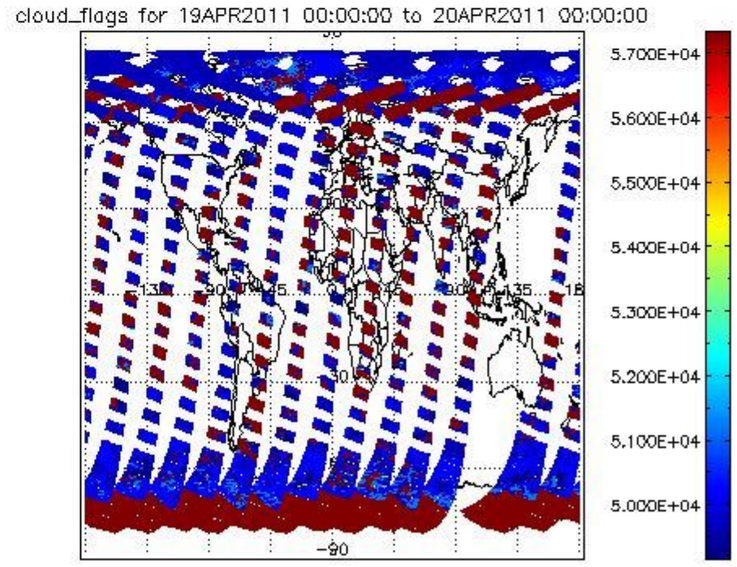
Plots are available for the following parameters:

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.

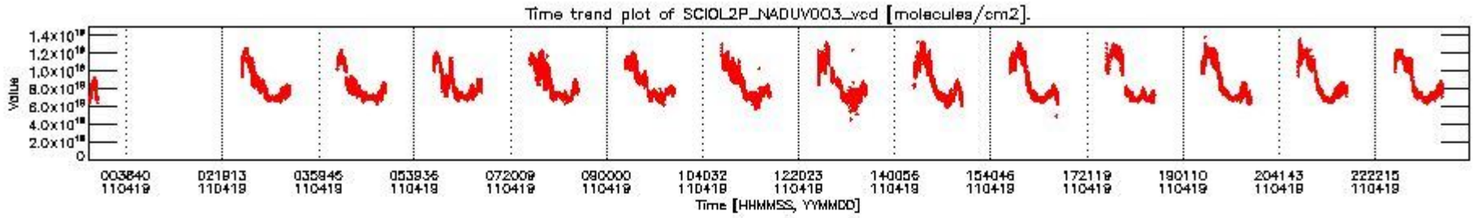
The following data items are currently included into this section:

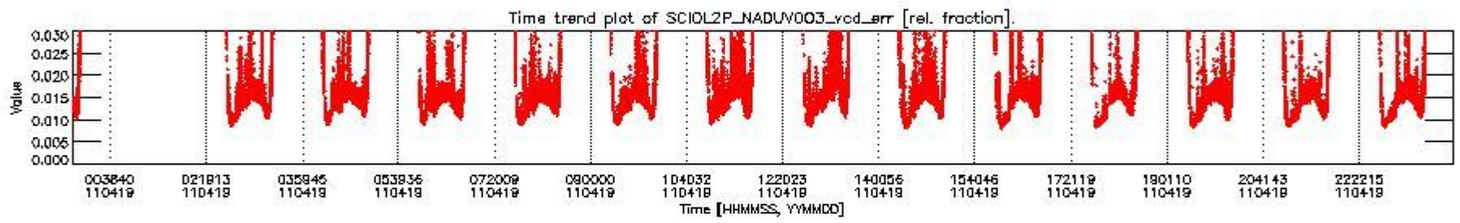
Number	Data item ID
0	SCIOL2P_NADUV0O3_vcd
1	SCIOL2P_NADUV0O3_vcd_err
2	SCIOL2P_NADUV0O3_amf_gr

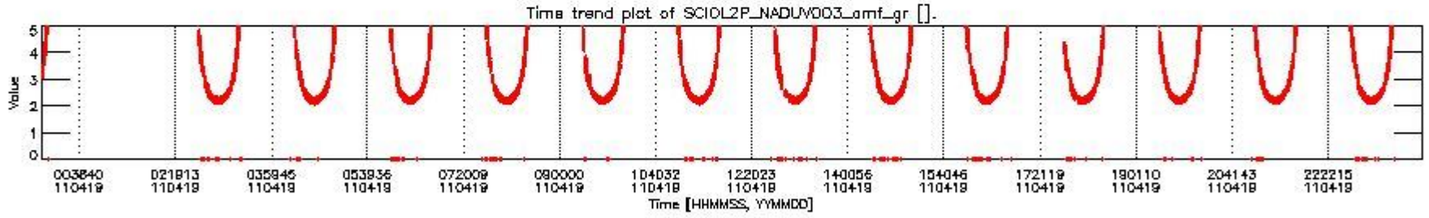
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr
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

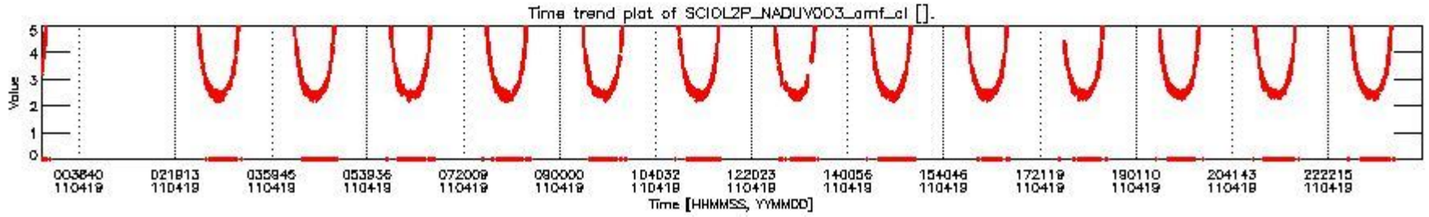
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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

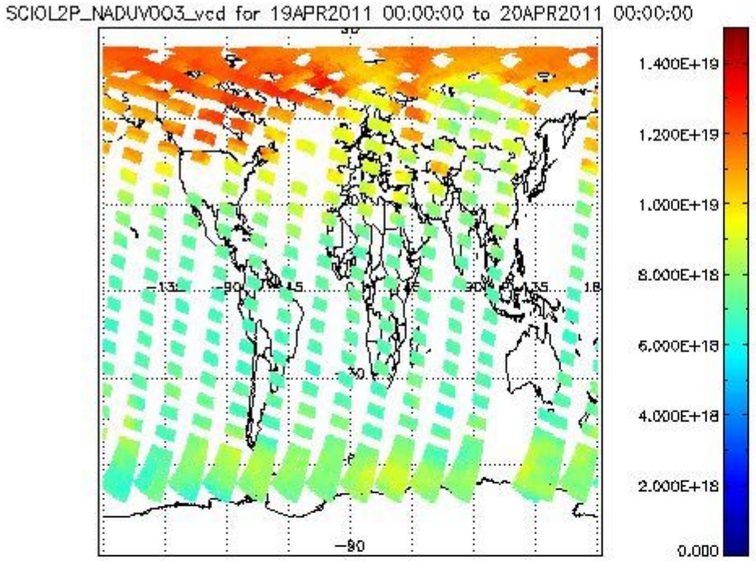
2.2.2.1 O3 (UV0)

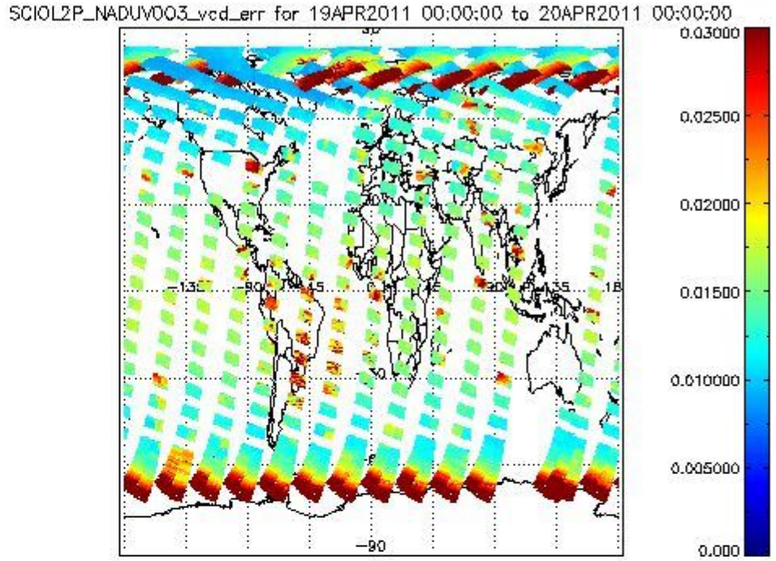

Time trend plot of SCIOL2P_NADUV003_vcd [molecules/cm2].
Value
1.4x10^16
1.2x10^16
1.0x10^16
8.0x10^15
6.0x10^15
4.0x10^15
2.0x10^15
0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

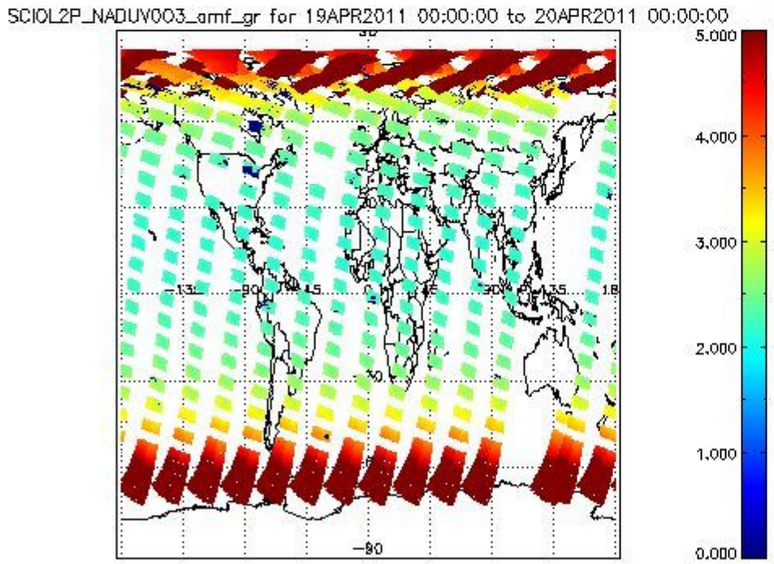

Time trend plot of SCIOL2P_NADUV003_vcd_err [rel. fraction].
Value
0.030
0.025
0.020
0.015
0.010
0.005
0.000
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

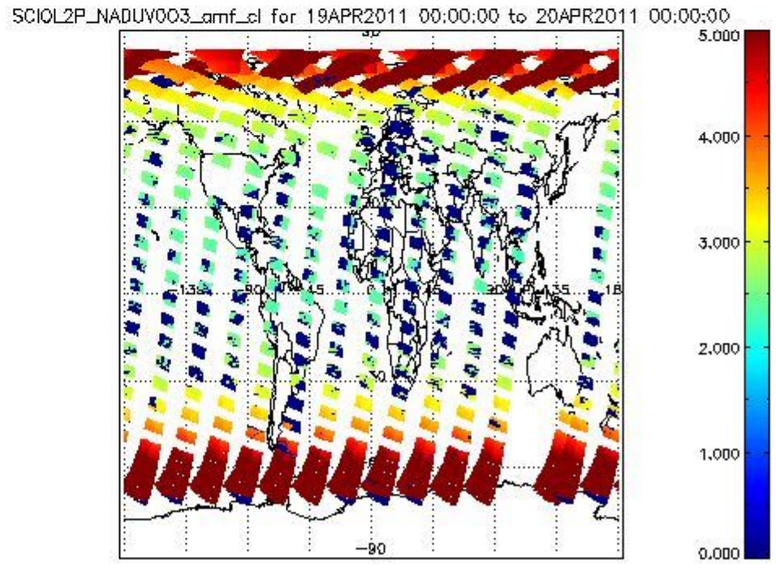

Time trend plot of SCIOL2P_NADUV003_amf_gr [].
Value
5
4
3
2
1
0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV003_amf_cl [].
Value
5
4
3
2
1
0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

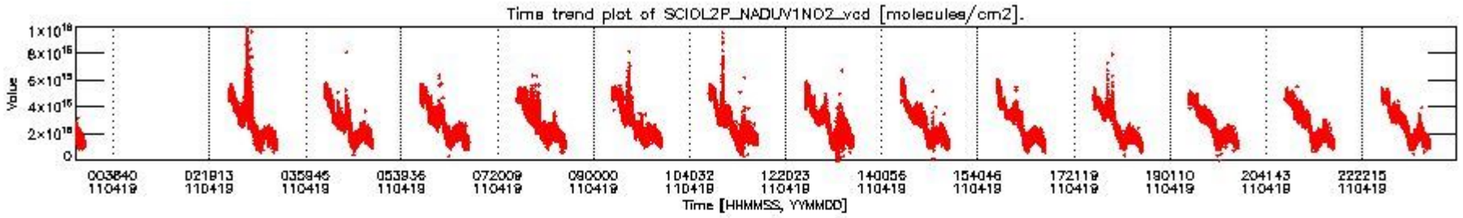

SCIOL2P_NADUV003_vcd for 19APR2011 00:00:00 to 20APR2011 00:00:00
1.400E+19
1.200E+19
1.000E+19
8.000E+18
6.000E+18
4.000E+18
2.000E+18
0.000
−90

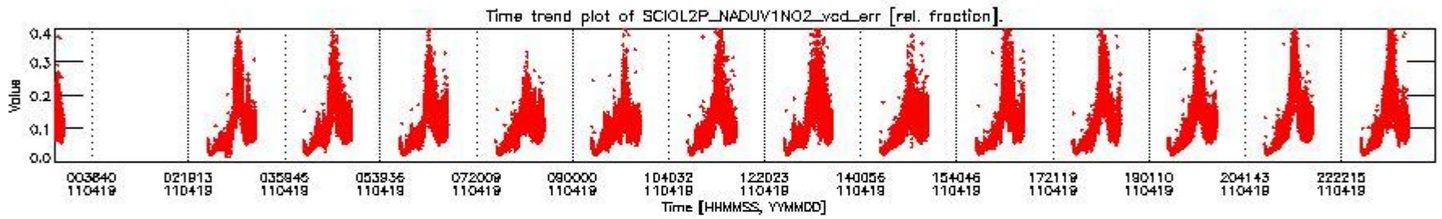

SCIOL2P_NADUV003_vcd_err for 19APR2011 00:00:00 to 20APR2011 00:00:00
0.03000
0.02500
0.02000
0.01500
0.010000
0.005000
0.000
−90

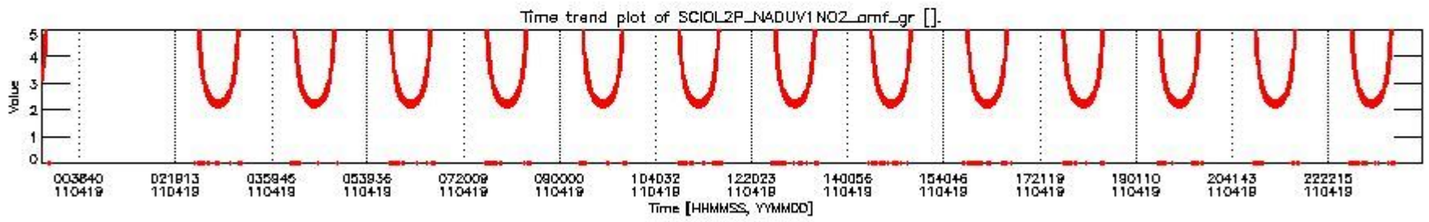

SCIOL2P_NADUV003_amf_gr for 19APR2011 00:00:00 to 20APR2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
−90

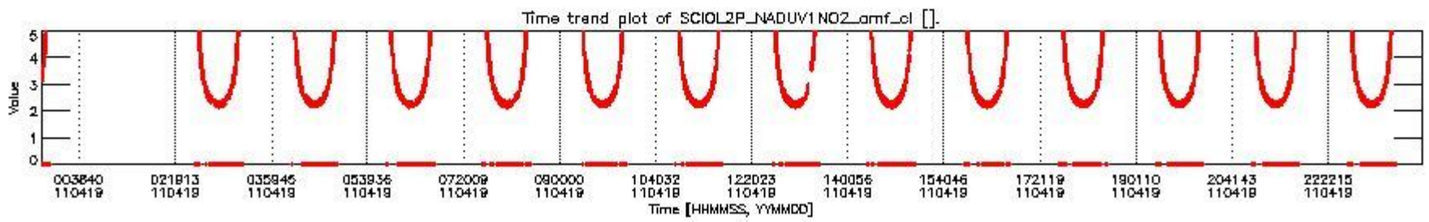

SCIOL2P_NADUV003_amf_cl for 19APR2011 00:00:00 to 20APR2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
−90

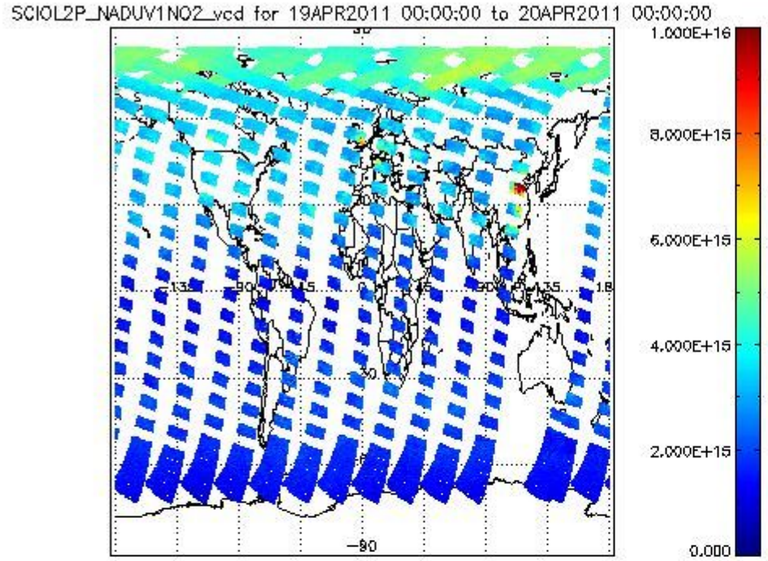
2.2.2.2 NO2 (UV1)

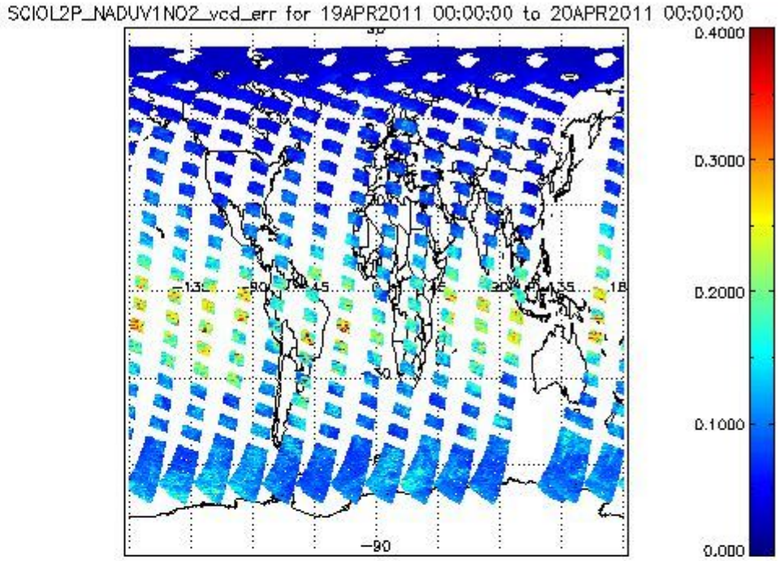

Time trend plot of SCIOL2P_NADUV1NO2_vcd [molecules/cm2].
Value
1x10^16
8x10^15
6x10^15
4x10^15
2x10^15
0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

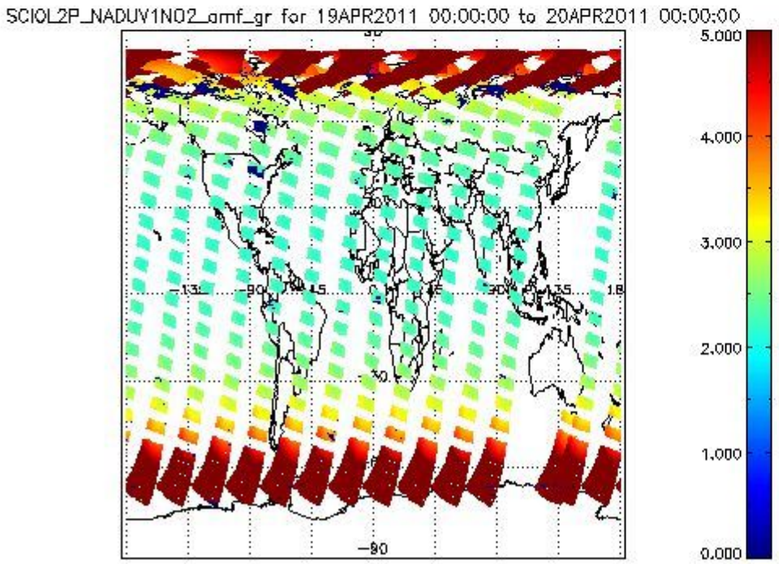

Time trend plot of SCIOL2P_NADUV1NO2_vcd_err [rel. fraction].
Value
0.4
0.3
0.2
0.1
0.0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

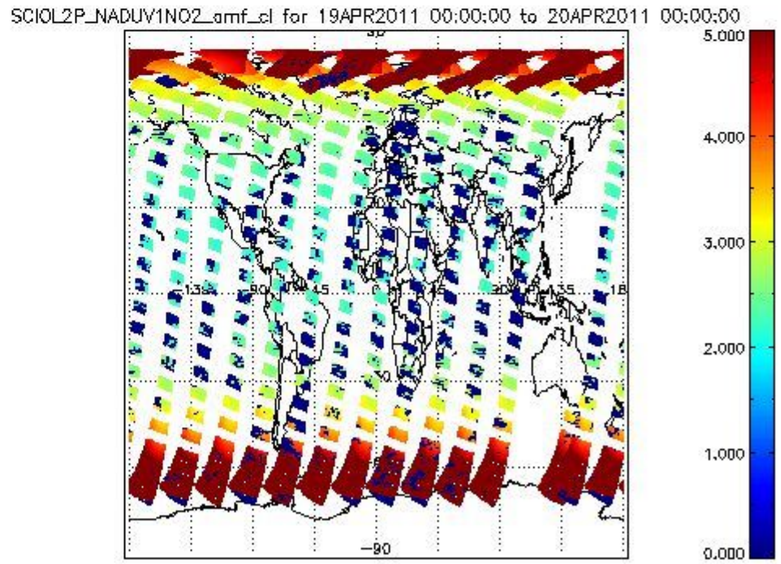

Time trend plot of SCIOL2P_NADUV1NO2_amf_gr [].
Value
5
4
3
2
1
0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV1NO2_amf_cl [].
Value
5
4
3
2
1
0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

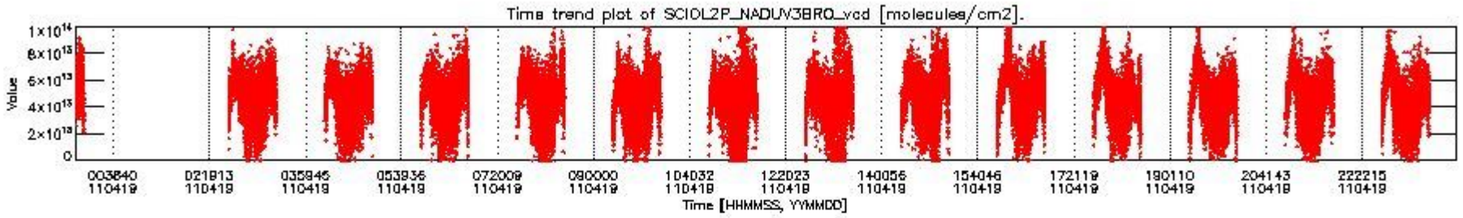

SCIOL2P_NADUV1NO2_vcd for 19APR2011 00:00:00 to 20APR2011 00:00:00
1.000E+16
8.000E+15
6.000E+15
4.000E+15
2.000E+15
0.000
-90

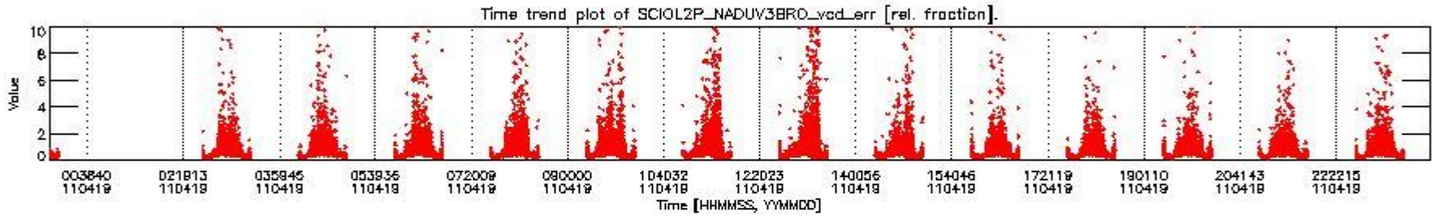

SCIOL2P_NADUV1NO2_vcd_err for 19APR2011 00:00:00 to 20APR2011 00:00:00
0.4000
0.3000
0.2000
0.1000
0.000
-90

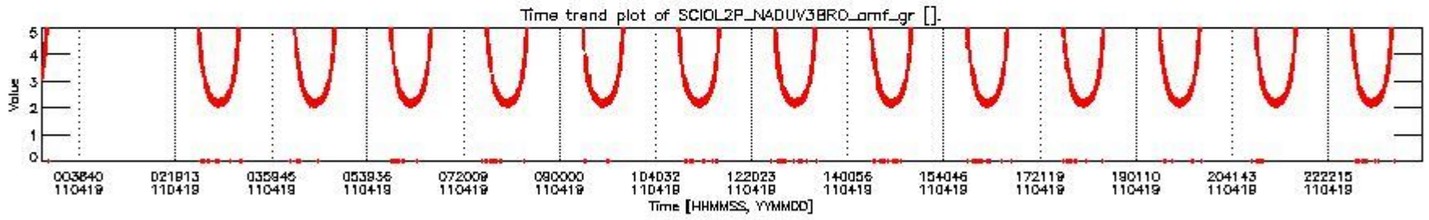

SCIOL2P_NADUV1NO2_amf_gr for 19APR2011 00:00:00 to 20APR2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90

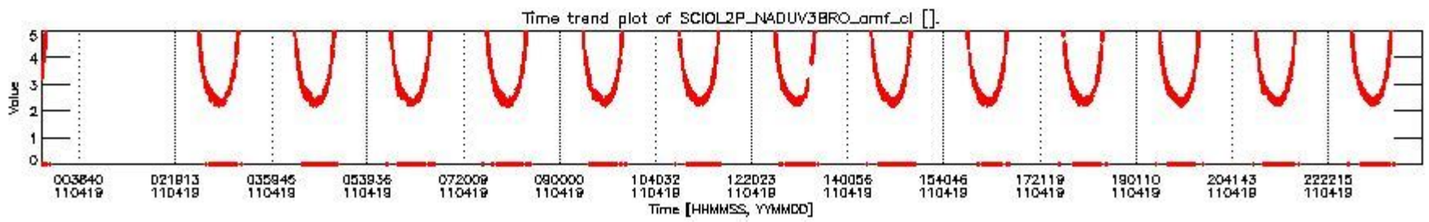

SCIOL2P_NADUV1NO2_amf_cl for 19APR2011 00:00:00 to 20APR2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90

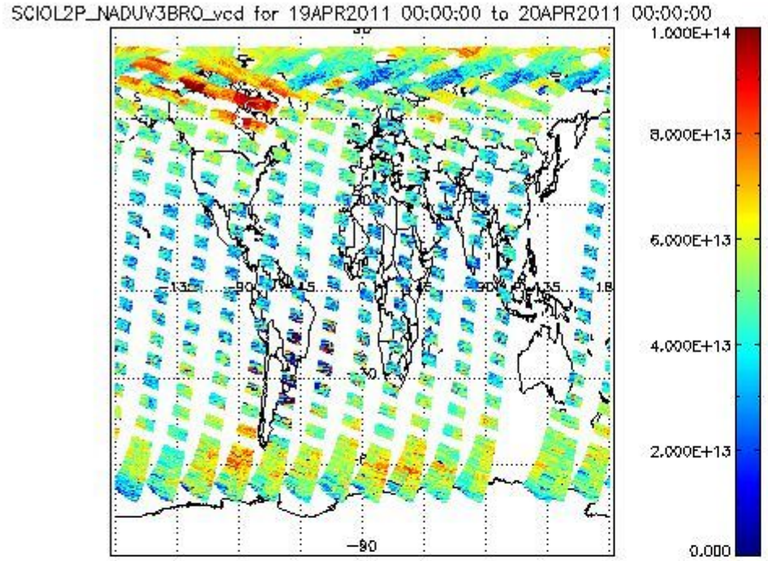
2.2.2.3 BrO (UV3)

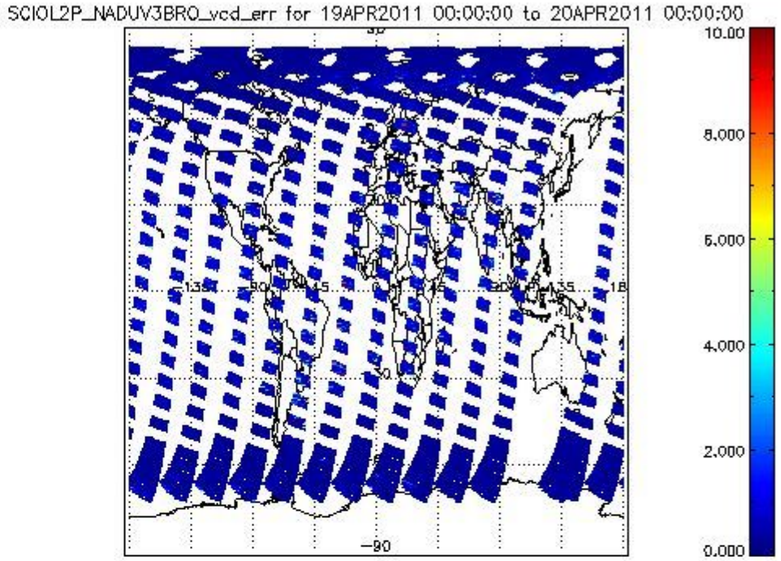

Time trend plot of SCIOL2P_NADUV3BRO_vcd [molecules/cm2].
Value
1x10^14
8x10^13
6x10^13
4x10^13
2x10^13
0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

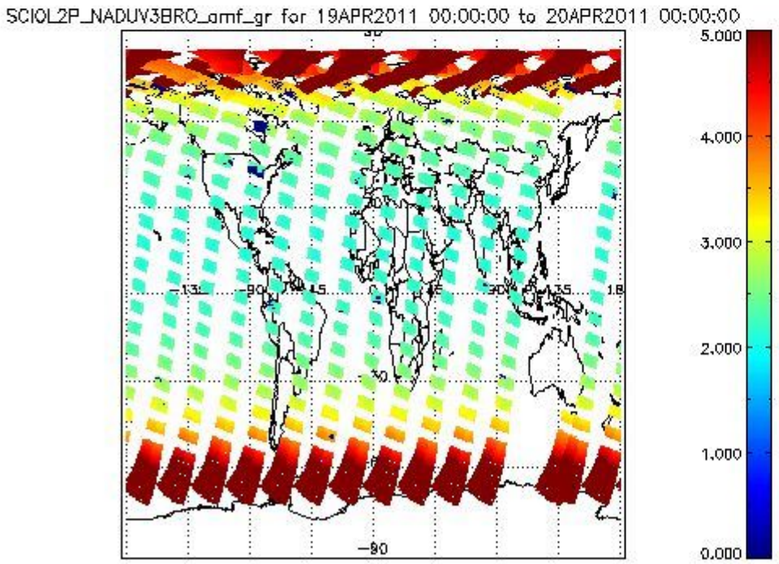

Time trend plot of SCIOL2P_NADUV3BRO_vcd_err [rel. fraction].
Value
10
8
6
4
2
0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

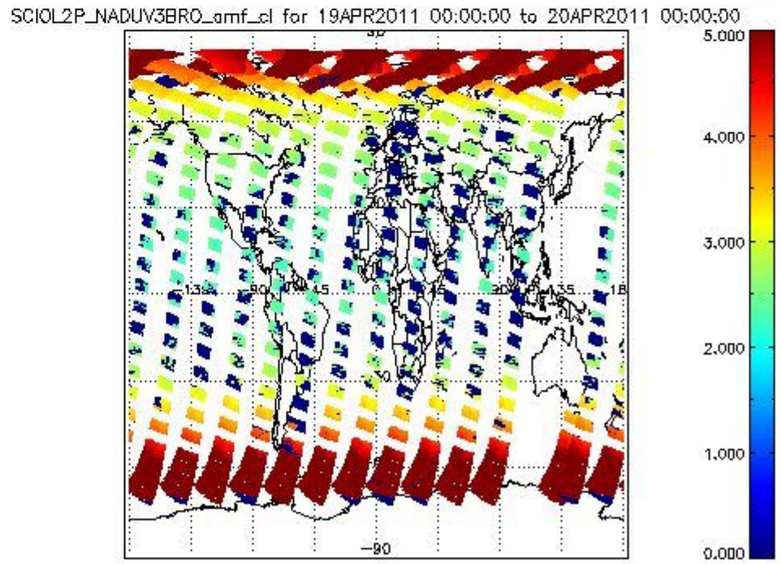

Time trend plot of SCIOL2P_NADUV3BRO_amf_gr [].
Value
5
4
3
2
1
0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV3BRO_amf_cl [].
Value
5
4
3
2
1
0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

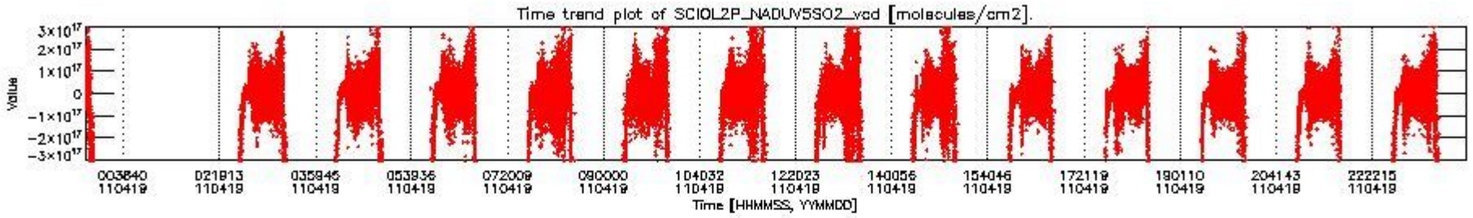

SCIOL2P_NADUV3BRO_vcd for 19APR2011 00:00:00 to 20APR2011 00:00:00
1.000E+14
8.000E+13
6.000E+13
4.000E+13
2.000E+13
0.000
-90

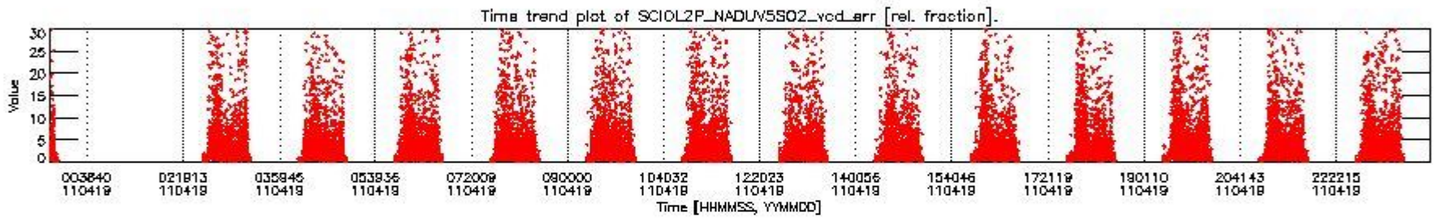

SCIOL2P_NADUV3BRO_vcd_err for 19APR2011 00:00:00 to 20APR2011 00:00:00
10.00
8.000
6.000
4.000
2.000
0.000
-90

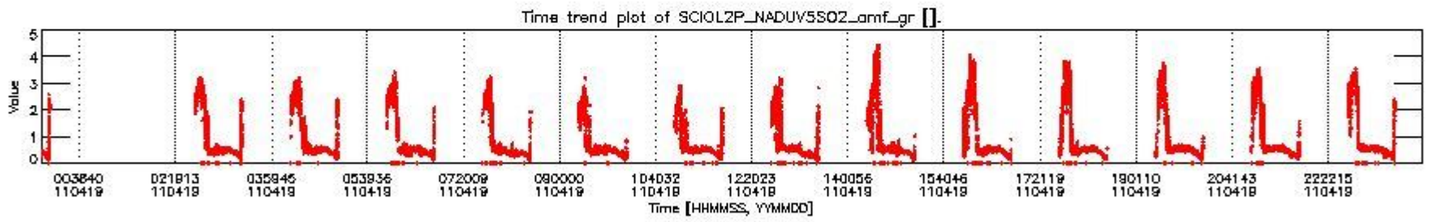

SCIOL2P_NADUV3BRO_amf_gr for 19APR2011 00:00:00 to 20APR2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90

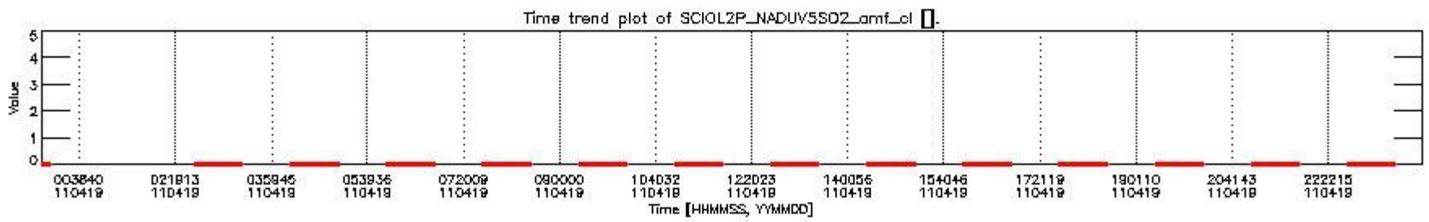

SCIOL2P_NADUV3BRO_amf_cl for 19APR2011 00:00:00 to 20APR2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90

2.2.2.4 SO2 (UV5)

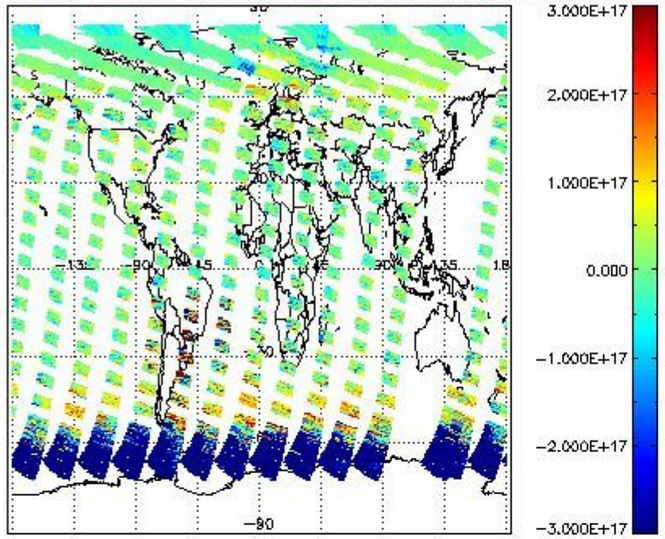

Time trend plot of SCIOL2P_NADUV5SO2_vcd [molecules/cm2].
Value
3x10^17
2x10^17
1x10^17
0
-1x10^17
-2x10^17
-3x10^17
003840 110419
021813 110419
035845 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV5SO2_vcd_err [rel. fraction].
Value
30
25
20
15
10
5
0
003840 110419
021813 110419
035845 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

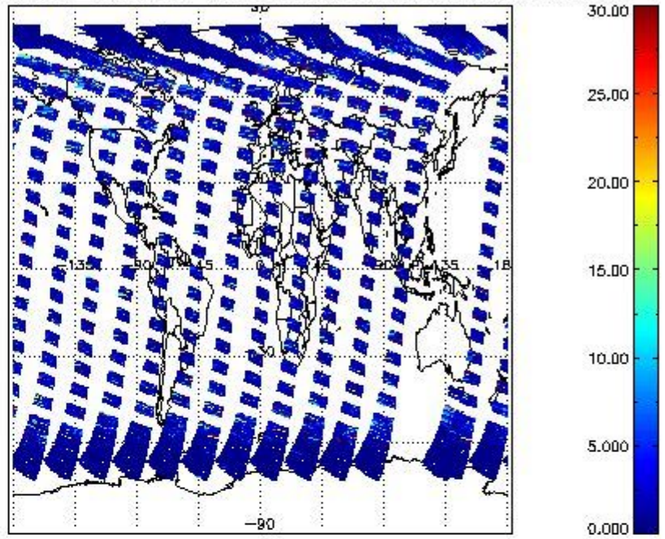

Time trend plot of SCIOL2P_NADUV5SO2_amf_gr [].
Value
5
4
3
2
1
0
003840 110419
021813 110419
035845 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV5SO2_amf_cl [].
Value
5
4
3
2
1
0
003840 110419
021813 110419
035845 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

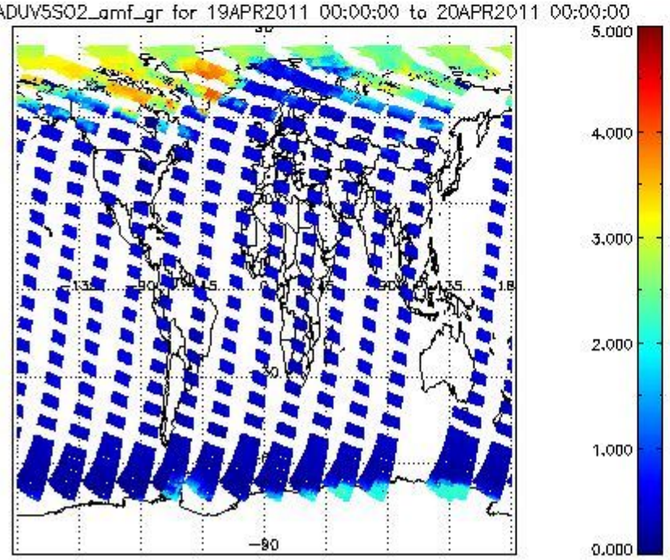
SCIOL2P_NADUV5SO2_vcd for 19APR2011 00:00:00 to 20APR2011 00:00:00



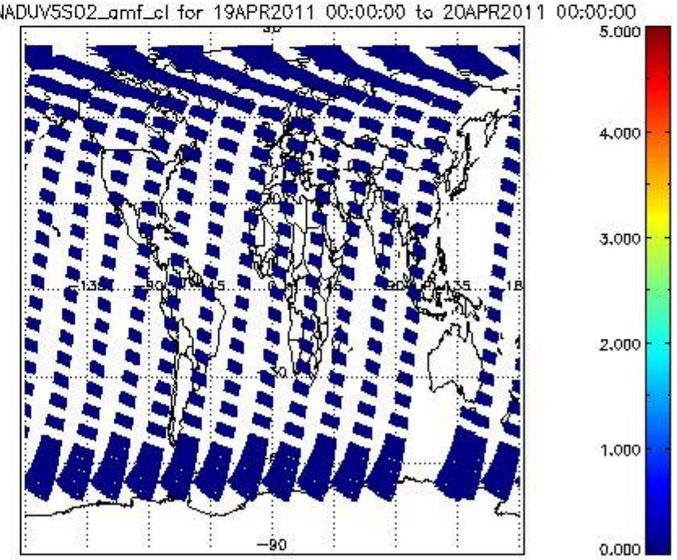
SCIOL2P_NADUV5SO2_vcd_err for 19APR2011 00:00:00 to 20APR2011 00:00:00



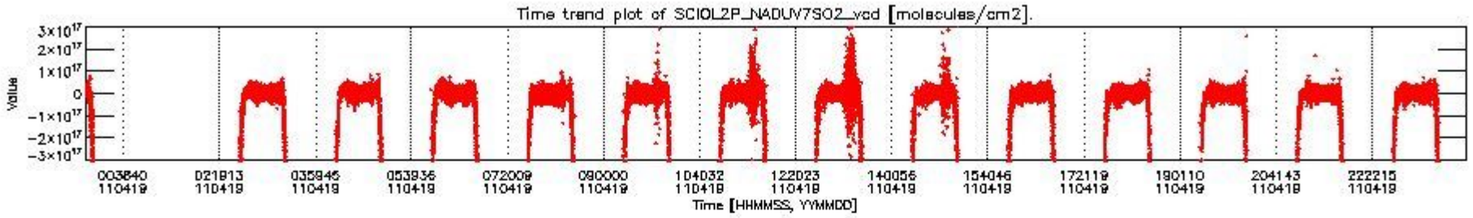
SCIOL2P_NADUV5SO2_amf_gr for 19APR2011 00:00:00 to 20APR2011 00:00:00

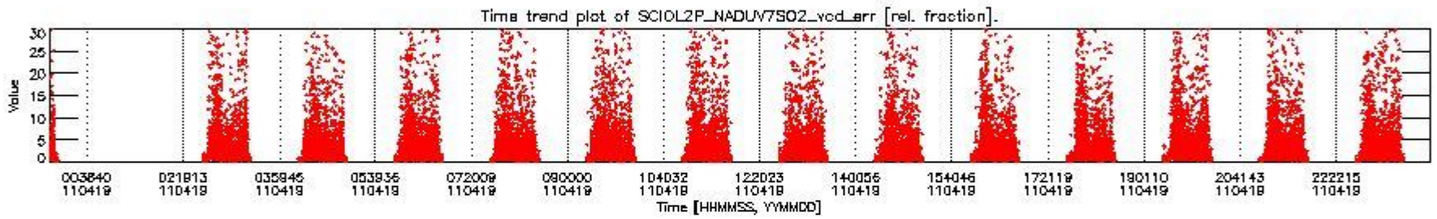


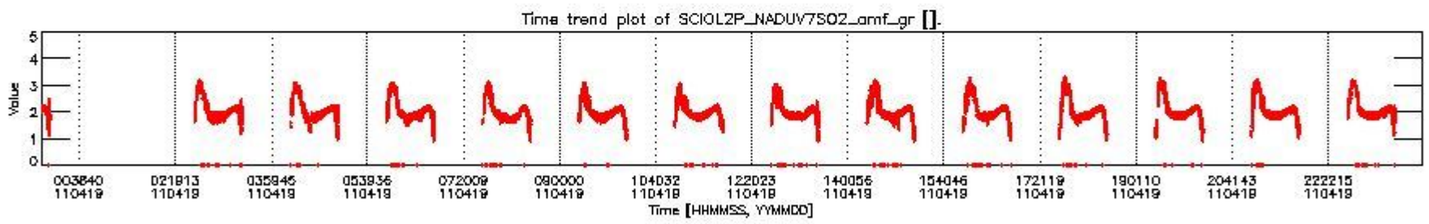
SCIOL2P_NADUV5SO2_amf_cl for 19APR2011 00:00:00 to 20APR2011 00:00:00

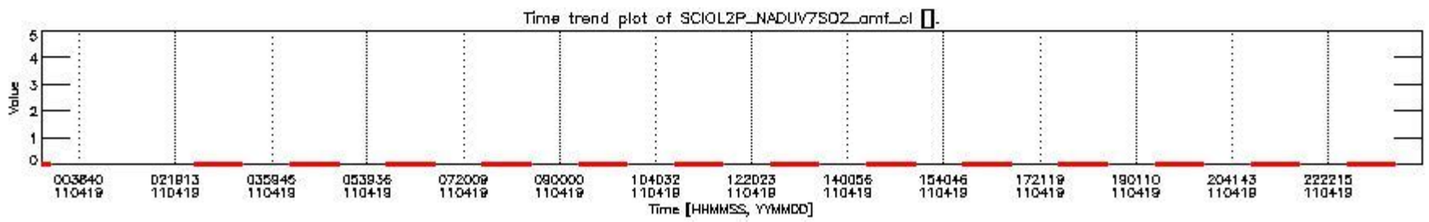


2.2.2.5 SO2 (UV7)

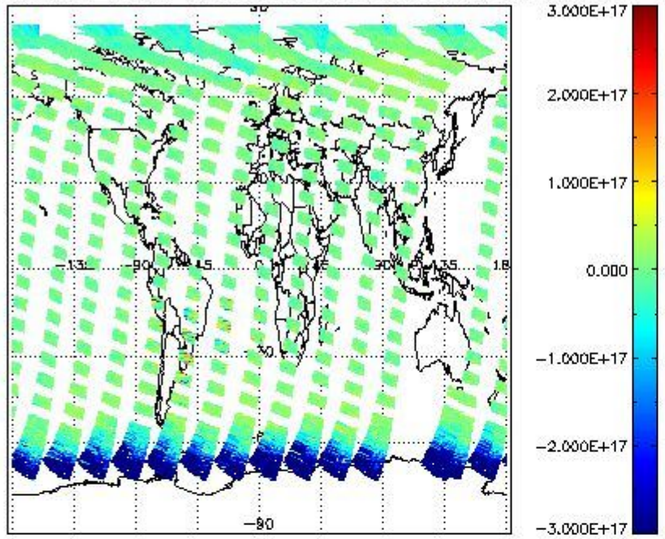

Time trend plot of SCIOL2P_NADUV7SO2_vcd [molecules/cm2].
Value
3x10^17
2x10^17
1x10^17
0
-1x10^17
-2x10^17
-3x10^17
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV7SO2_vcd_err [rel. fraction].
Value
30
25
20
15
10
5
0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

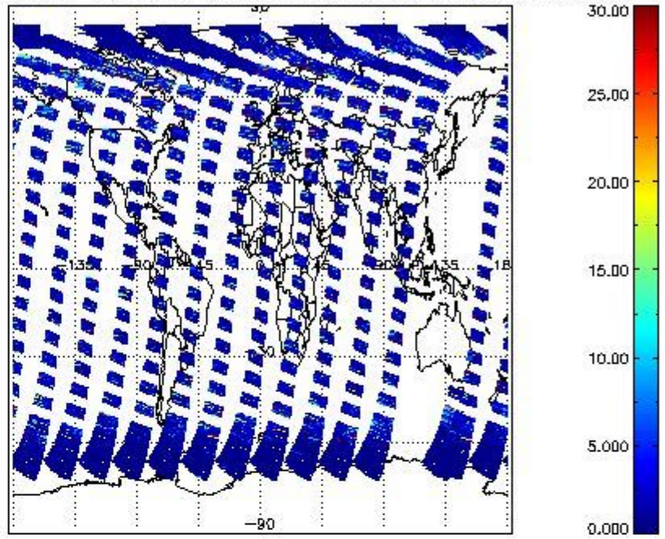

Time trend plot of SCIOL2P_NADUV7SO2_amf_gr [].
Value
5
4
3
2
1
0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV7SO2_amf_cl [].
Value
5
4
3
2
1
0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

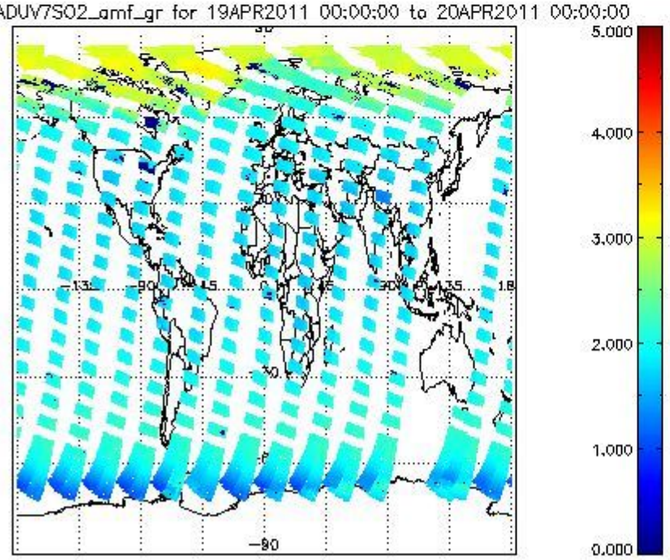
SCIOL2P_NADUV7SO2_vcd for 19APR2011 00:00:00 to 20APR2011 00:00:00



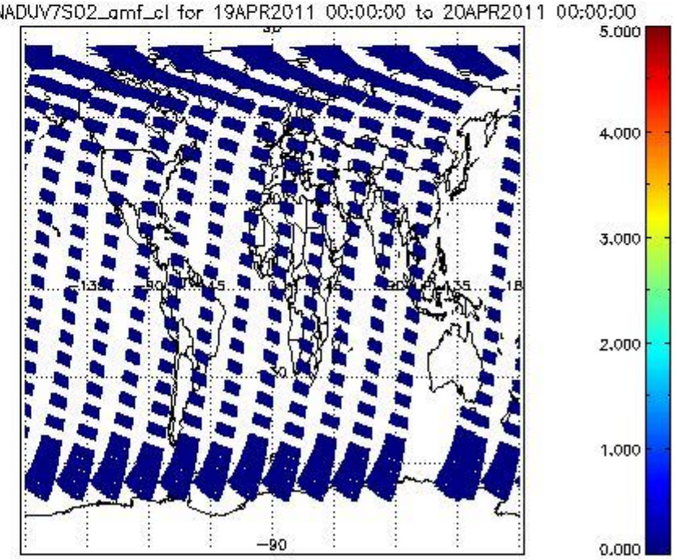
SCIOL2P_NADUV7SO2_vcd_err for 19APR2011 00:00:00 to 20APR2011 00:00:00



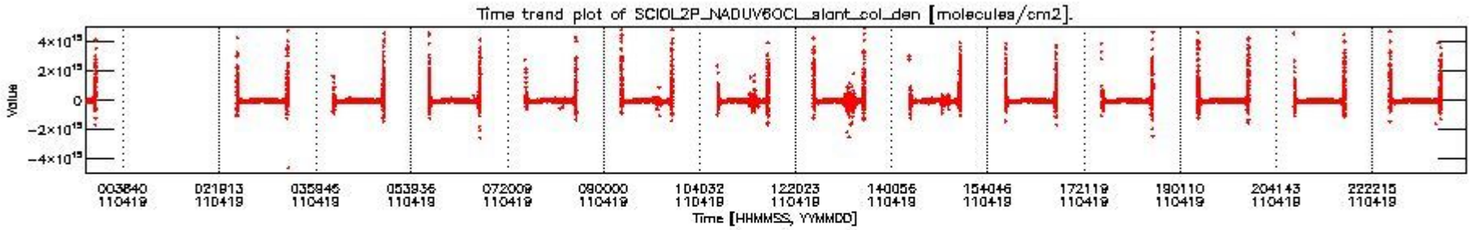
SCIOL2P_NADUV7SO2_amf_gr for 19APR2011 00:00:00 to 20APR2011 00:00:00

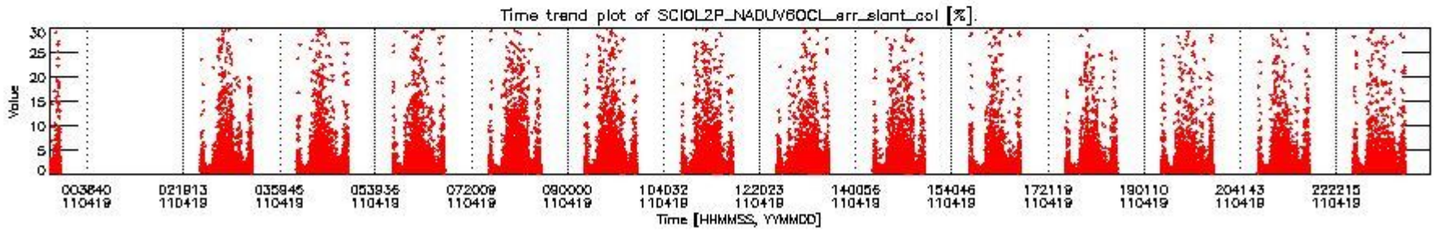


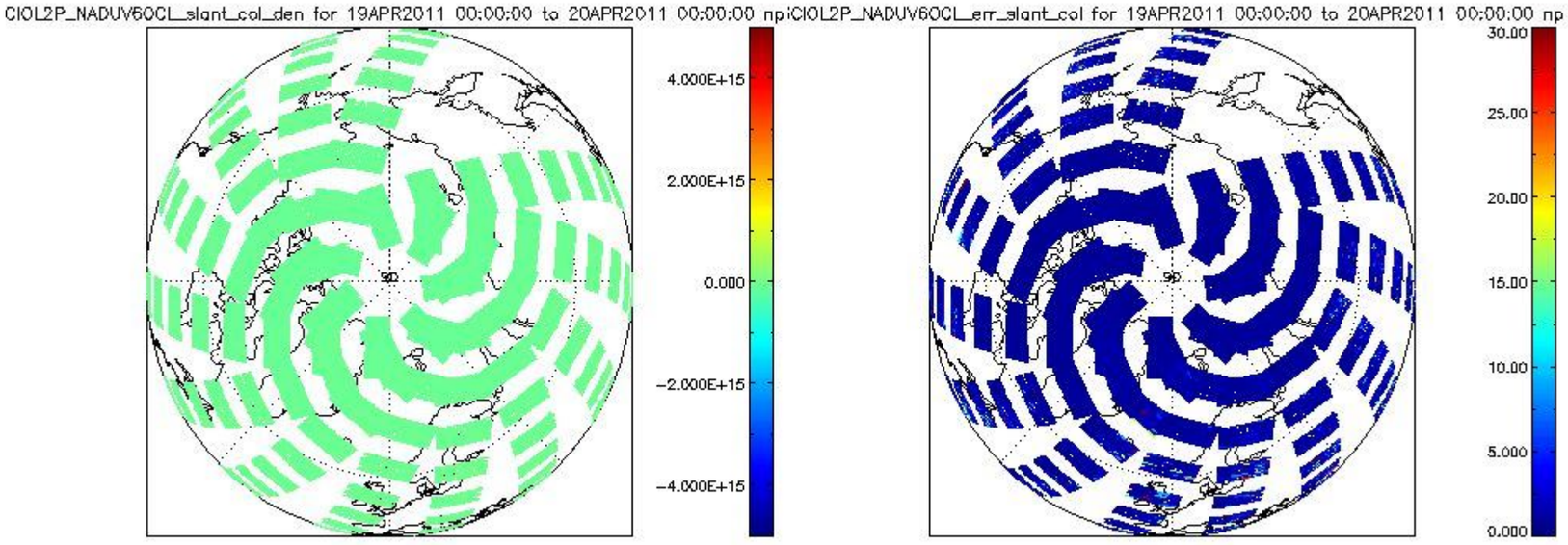
SCIOL2P_NADUV7SO2_amf_cl for 19APR2011 00:00:00 to 20APR2011 00:00:00

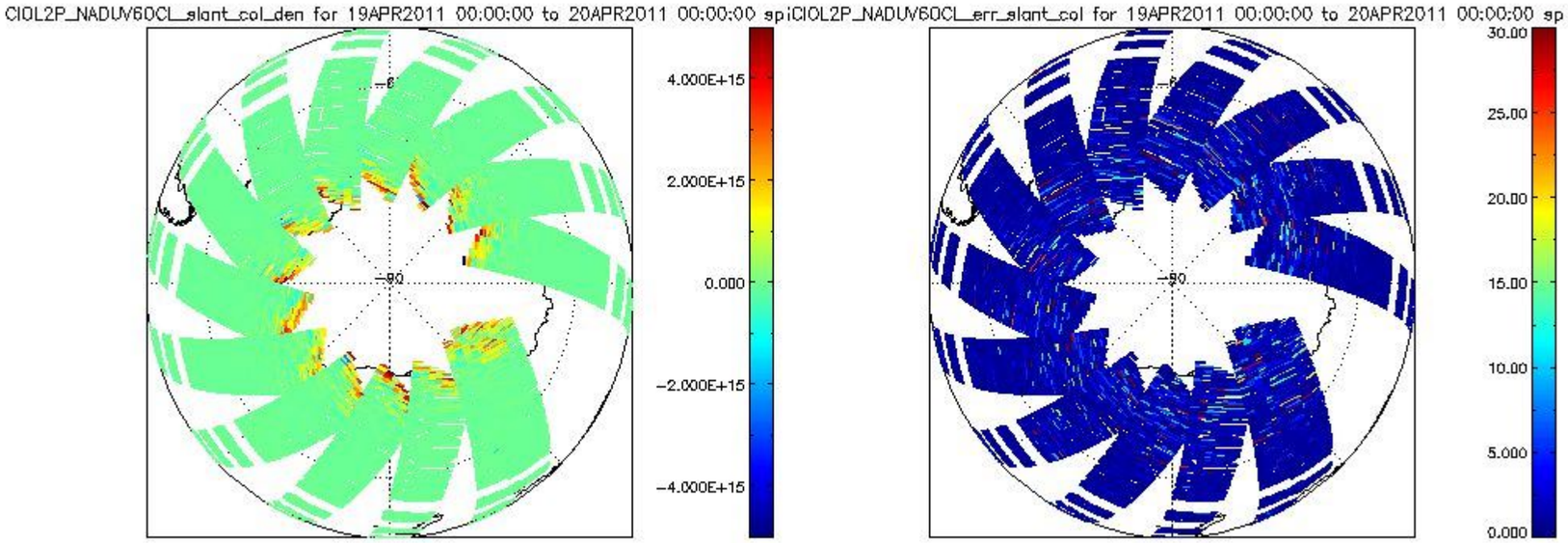


2.2.2.6 OClO (UV6)

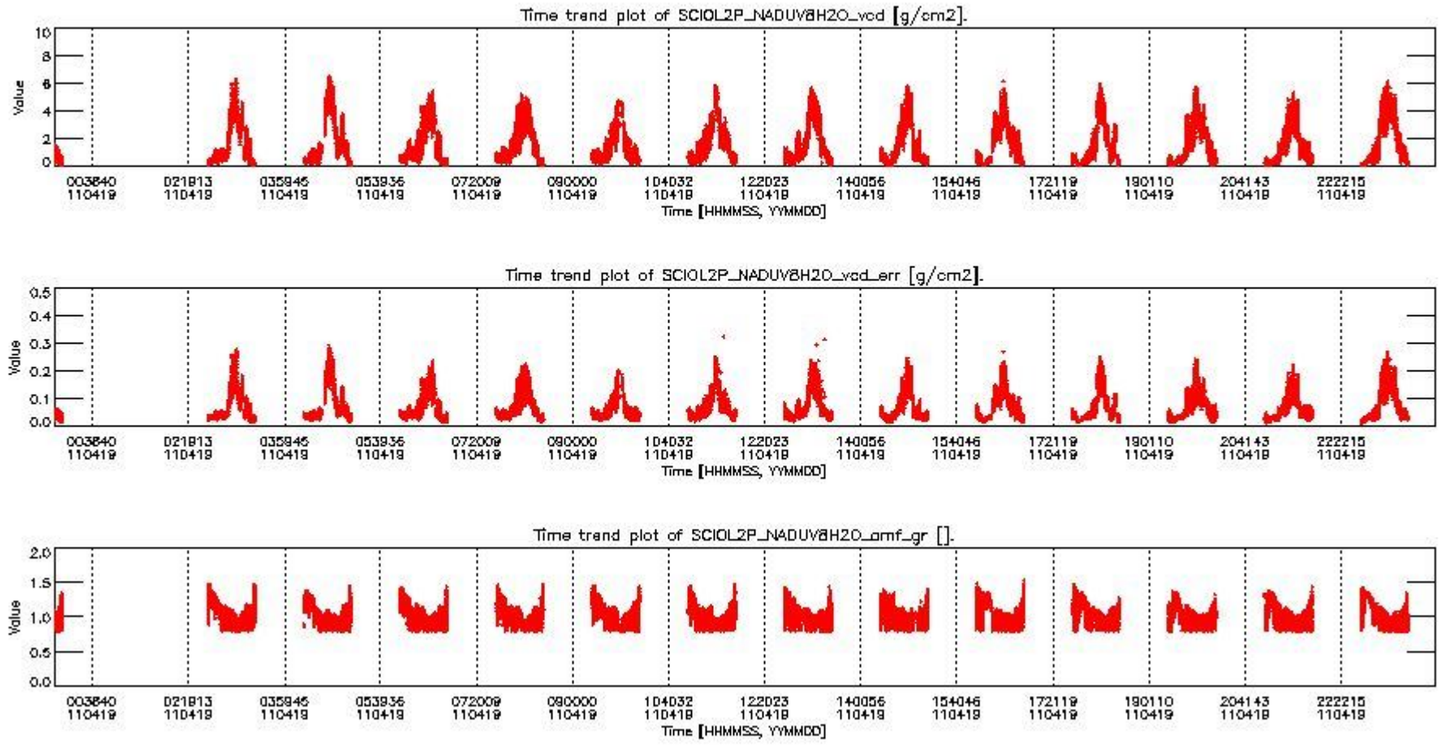

Time trend plot of SCIOL2P_NADUV6OCL_slant_col_den [molecules/cm2].
Value
4×10^15
2×10^15
0
−2×10^15
−4×10^15
003840 110419
021813 110419
035845 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV6OCL_err_slant_col [%].
Value
30
25
20
15
10
5
0
003840 110419
021813 110419
035845 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

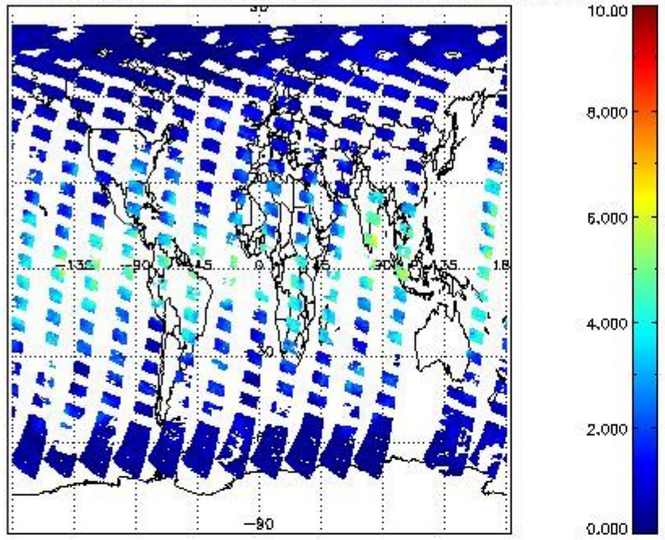

CIOL2P_NADUV6OCL_slant_col_den for 19APR2011 00:00:00 to 20APR2011 00:00:00 np
4.000E+15
2.000E+15
0.000
−2.000E+15
−4.000E+15
90
CIOL2P_NADUV6OCL_err_slant_col for 19APR2011 00:00:00 to 20APR2011 00:00:00 np
30.00
25.00
20.00
15.00
10.00
5.000
0.000
90


CIOL2P_NADUV6OCL_slant_col_den for 19APR2011 00:00:00 to 20APR2011 00:00:00 spiCIOL2P_NADUV6OCL_err_slant_col for 19APR2011 00:00:00 to 20APR2011 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

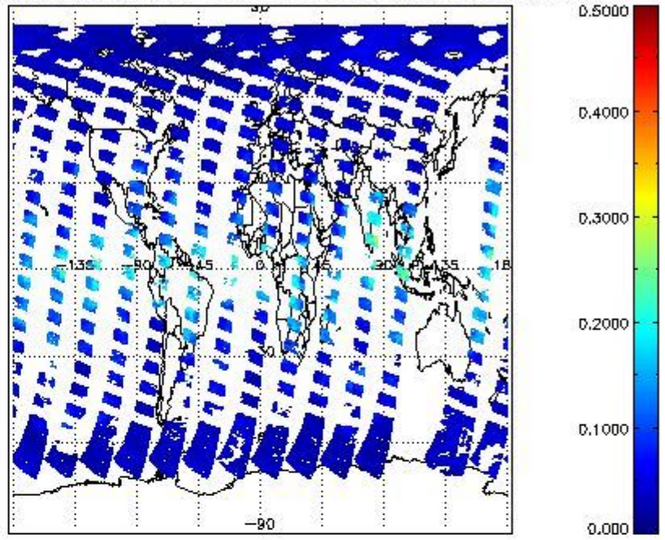
2.2.2.7 H2O (UV8)


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]

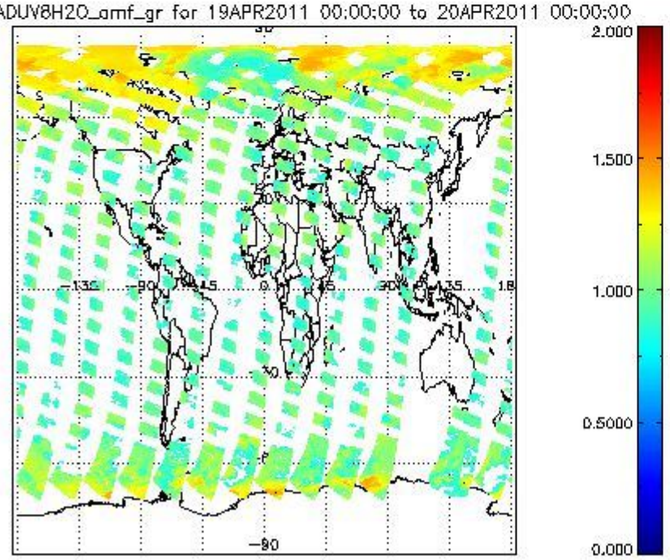
SCIOL2P_NADUV8H2O_vcd for 19APR2011 00:00:00 to 20APR2011 00:00:00



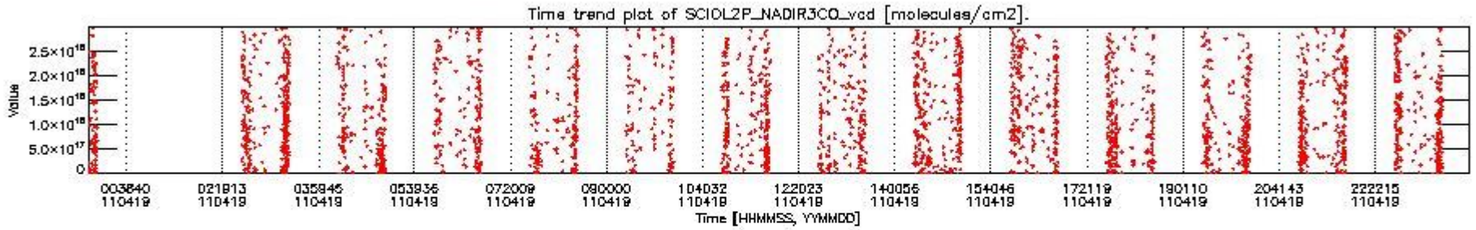
SCIOL2P_NADUV8H2O_vcd_err for 19APR2011 00:00:00 to 20APR2011 00:00:00

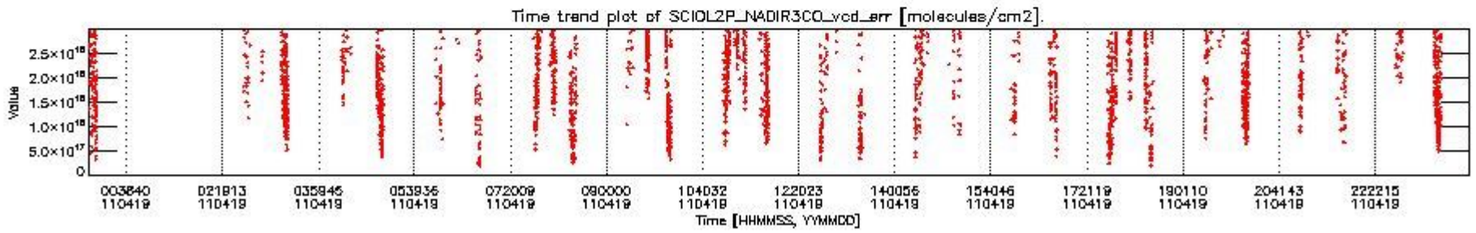


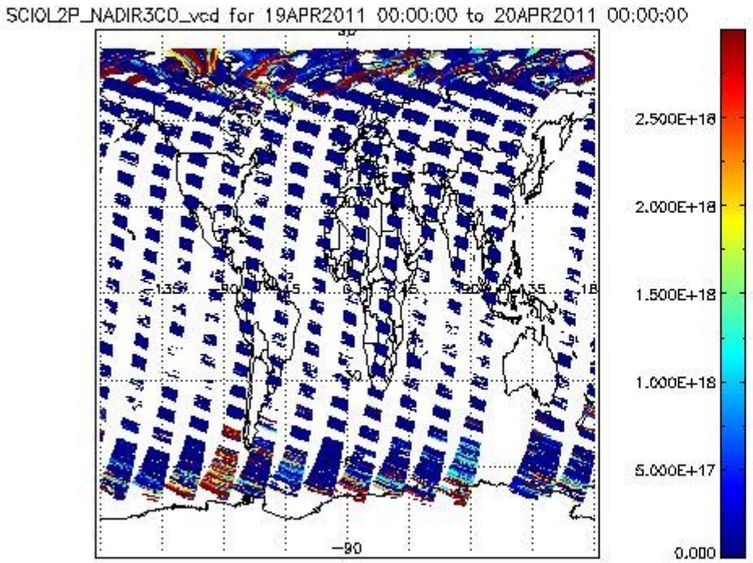
SCIOL2P_NADUV8H2O_amf_gr for 19APR2011 00:00:00 to 20APR2011 00:00:00

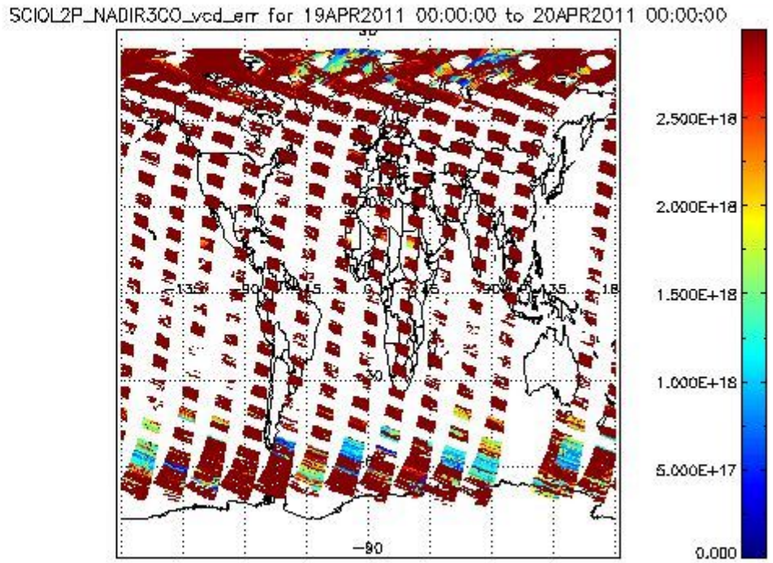


2.2.2.8 CO (IR3)









2.2.3 Limb

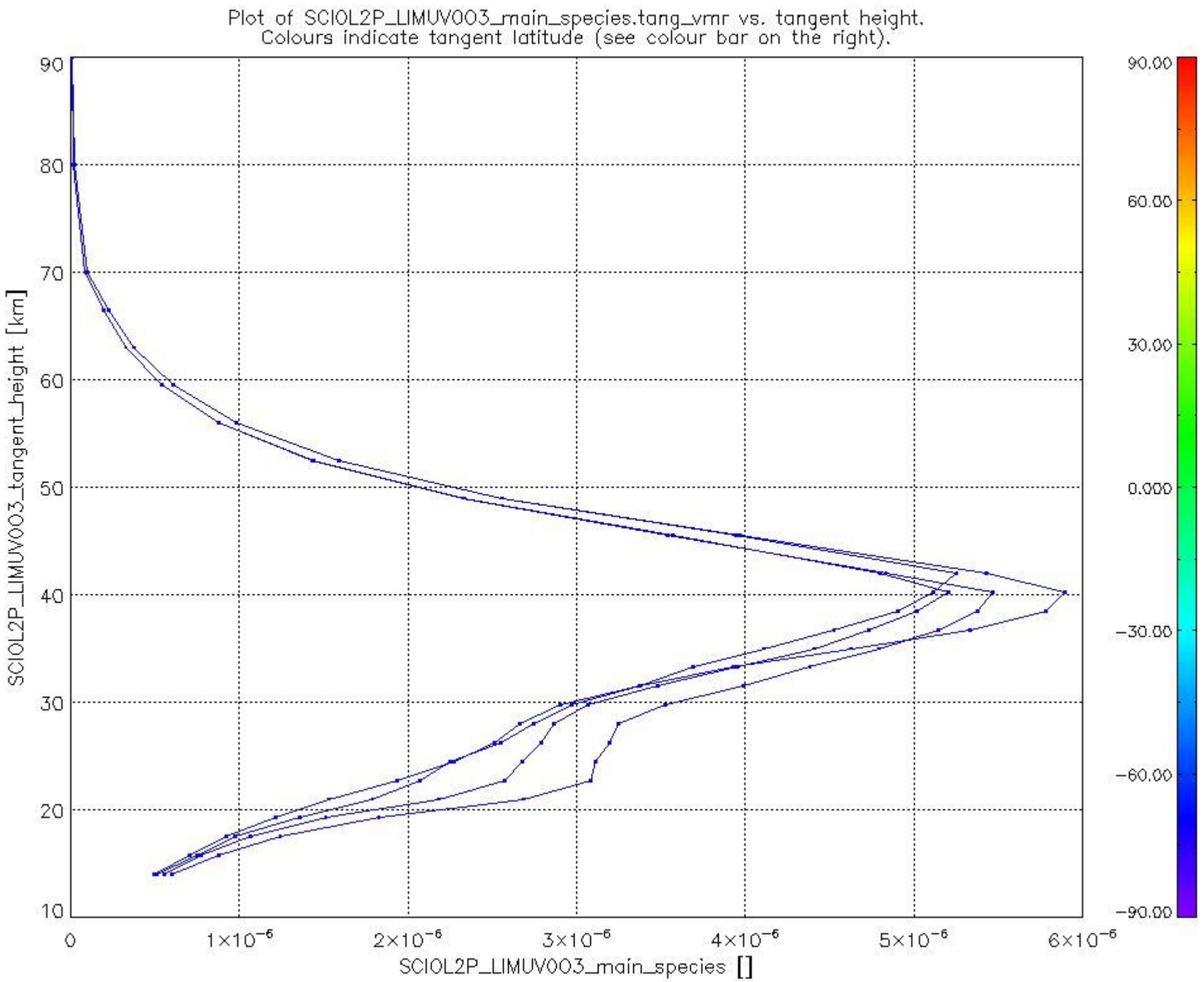
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

The following data items are currently included into this section:

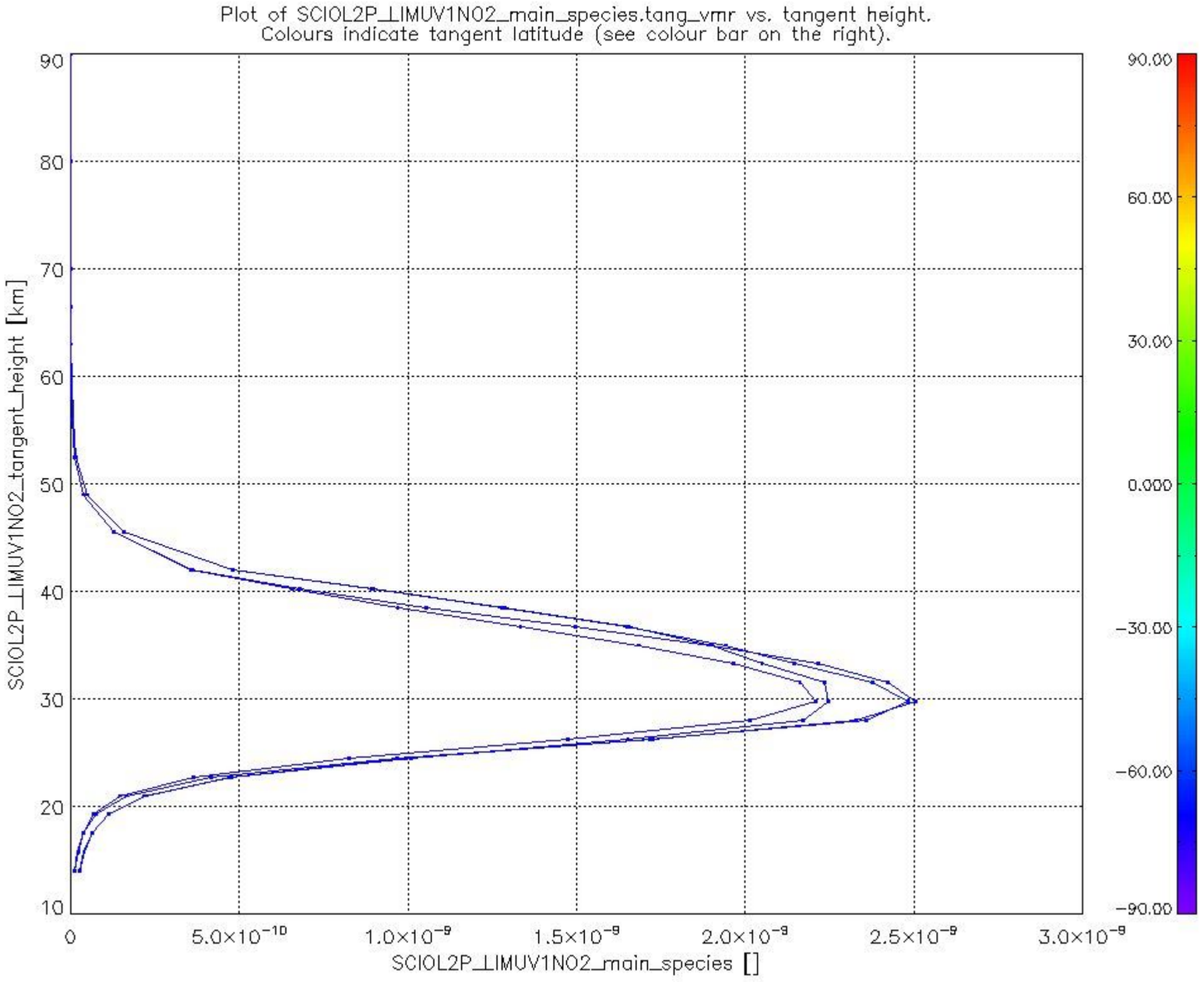
Number	Data item ID
0	SCIOL2P_LIMUV0O3_main_species
1	SCIOL2P_LIMUV1NO2_main_species
2	SCIOL2P_LIMUV3BRO_main_species

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

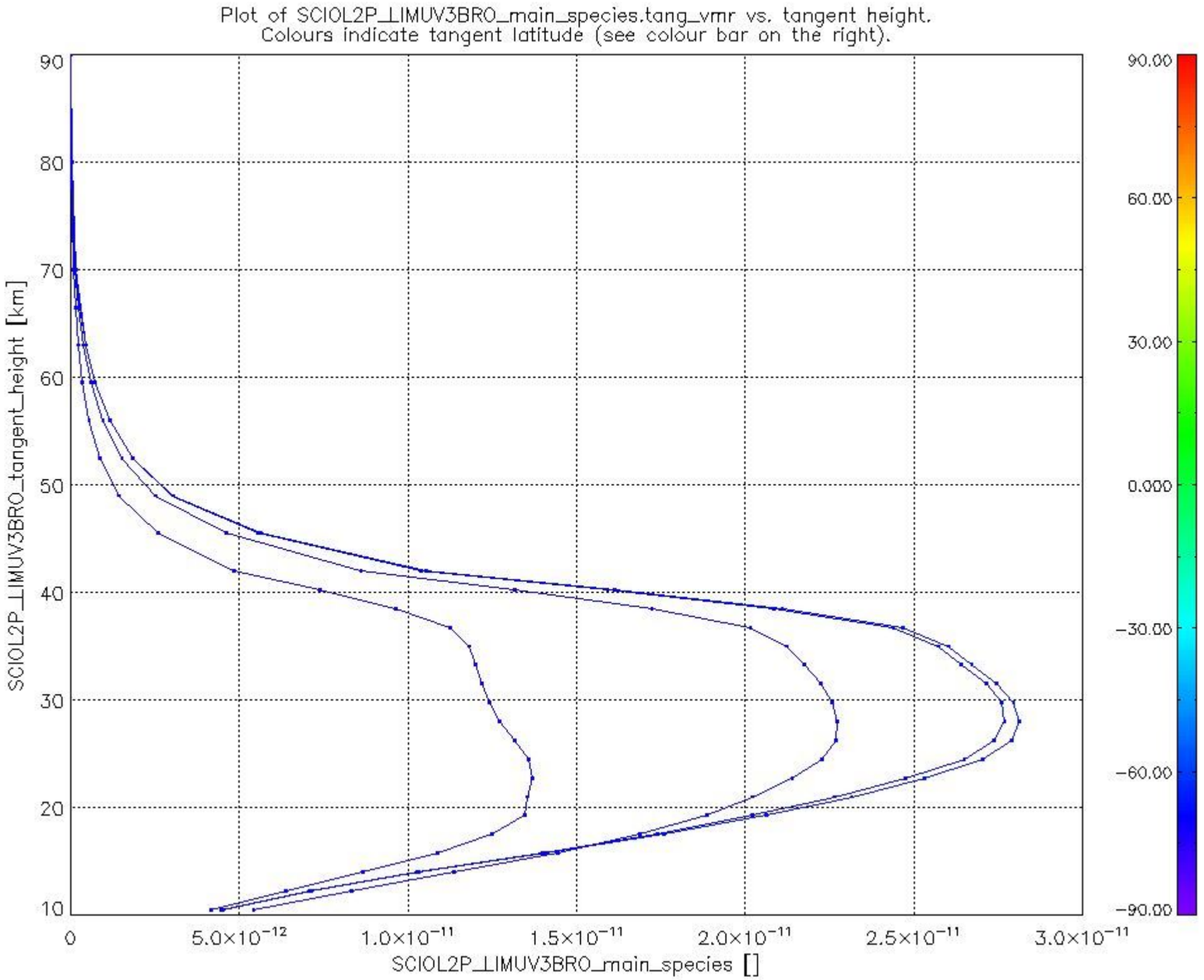
2.2.3.1 O3 (UV0)



2.2.3.2 NO2 (UV1)

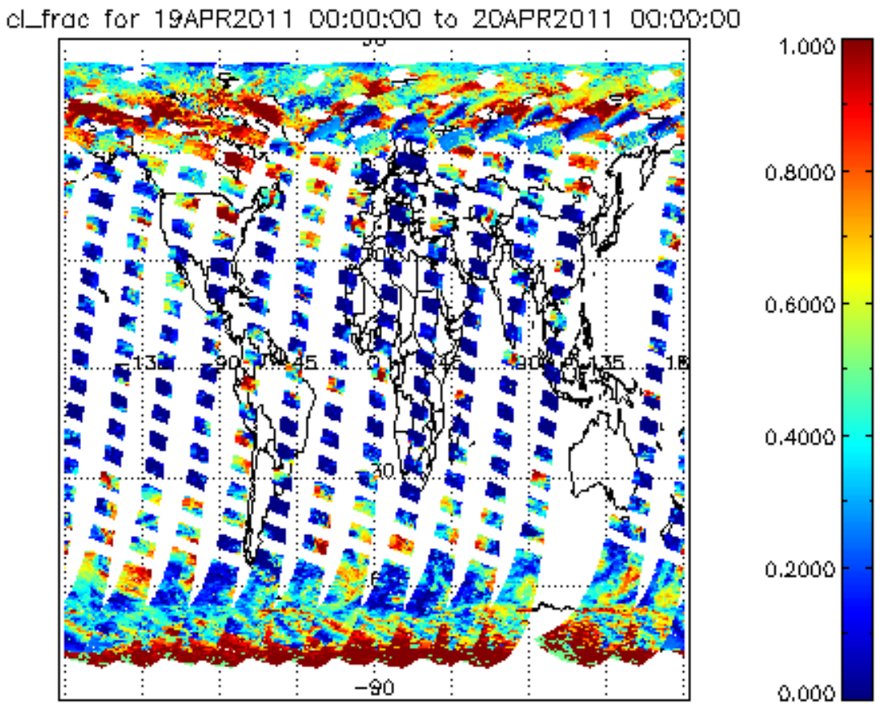

Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).
SCIOL2P_LIMUV1NO2_tangent_height [km]
90
80
70
60
50
40
30
20
10
0
5.0×10⁻¹⁰
1.0×10⁻⁹
1.5×10⁻⁹
2.0×10⁻⁹
2.5×10⁻⁹
3.0×10⁻⁹
SCIOL2P_LIMUV1NO2_main_species []
90.00
60.00
30.00
0.000
−30.00
−60.00
−90.00

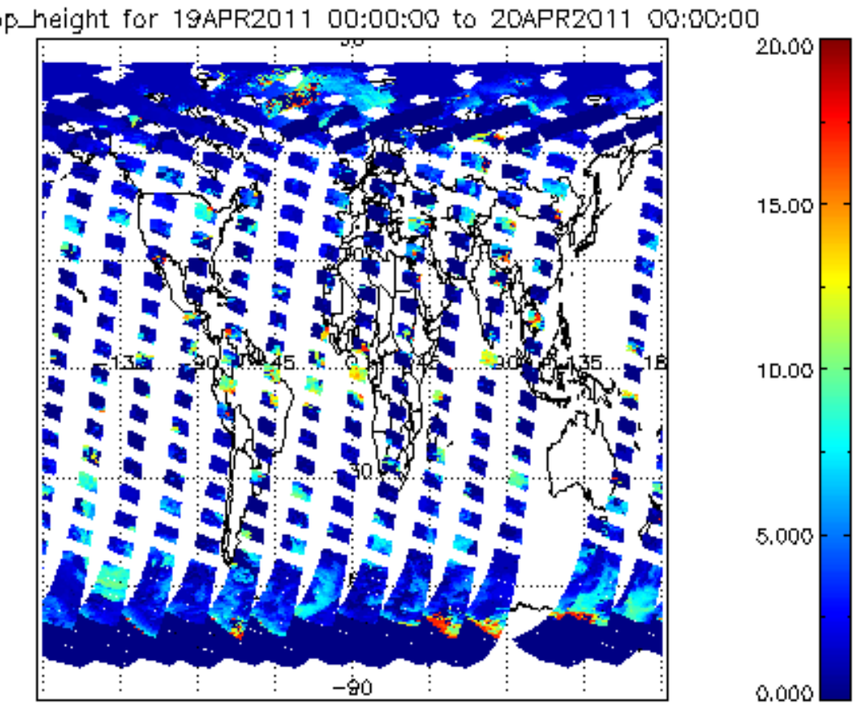
2.2.3.3 BrO (UV3)

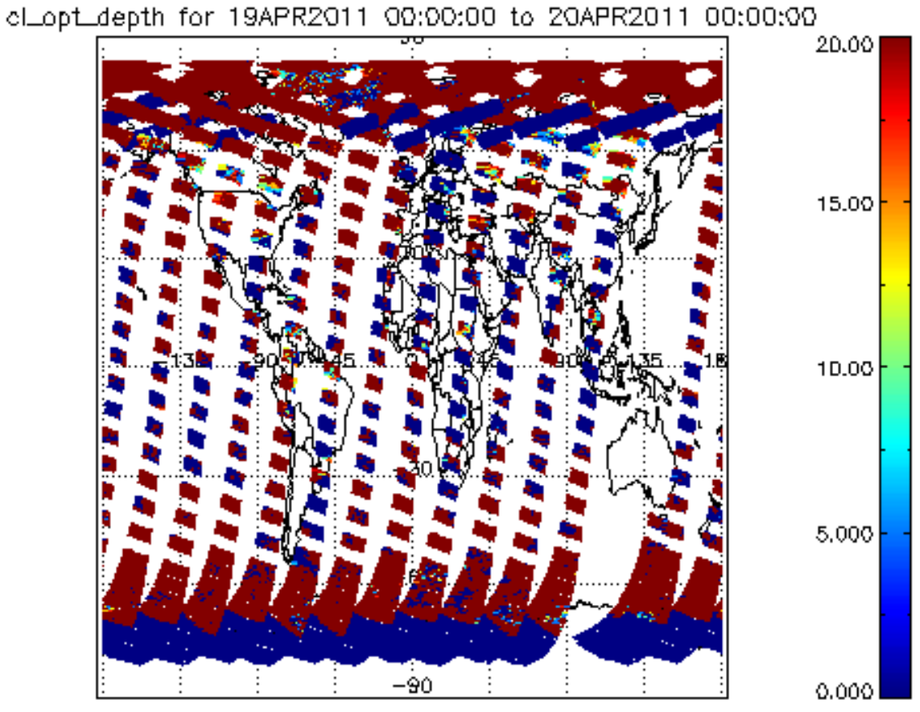


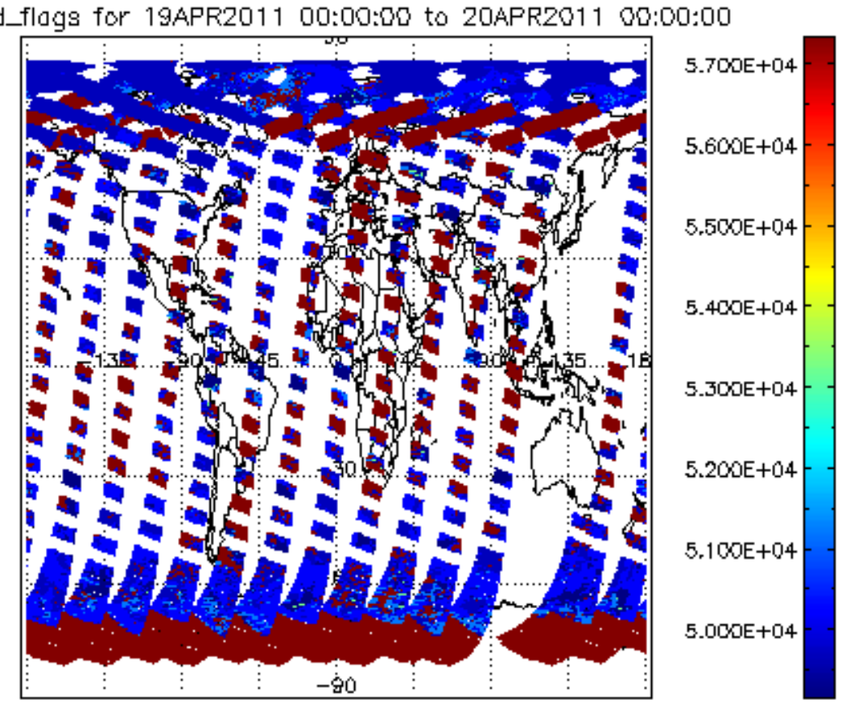
2.3 ADF monitoring

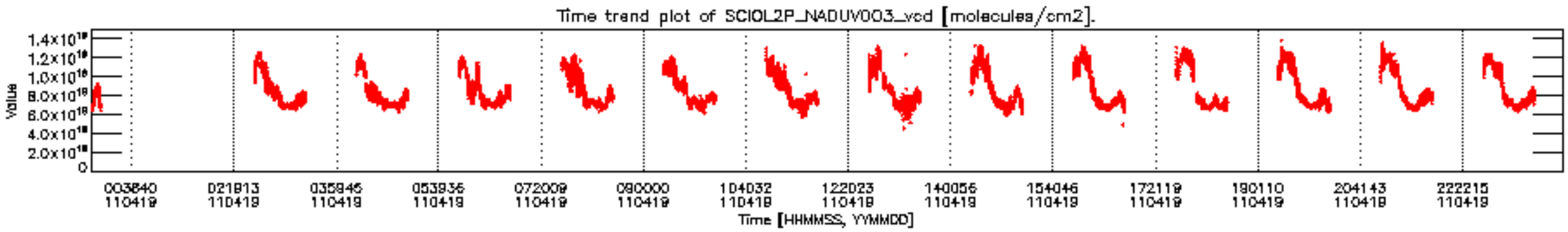
Number	ADF
	IN_ (INITIALISATION_FILE)
0	SCI_IN__AXNPDE20090615_120000_20090615_000000_20991231_235959
	ECF (ECMWF_FILE)
1	NOT USED
	MF1 (M_FACTOR_FILE)
2	SCI_MF1_AXVIEC20110412_111435_20110418_192501_20110516_192501
3	SCI_MF1_AXVIEC20110426_110700_20110418_192501_20110420_192501
4	SCI_MF1_AXVIEC20110426_111548_20110419_184815_20110421_184815

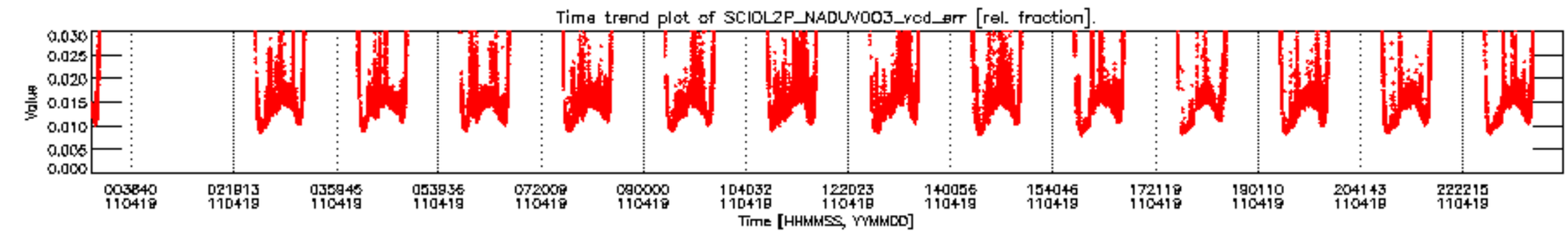

cl_frac for 19APR2011 00:00:00 to 20APR2011 00:00:00
1.000
0.8000
0.6000
0.4000
0.2000
0.000
-90

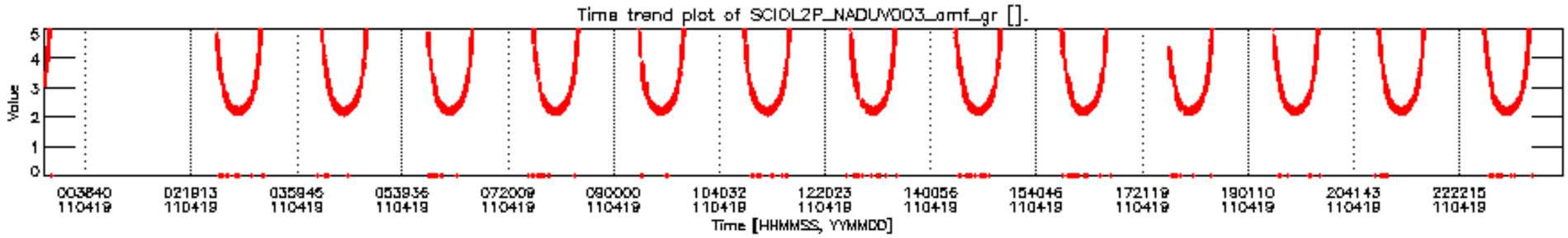

cl_top_height for 19APR2011 00:00:00 to 20APR2011 00:00:00
20.00
15.00
10.00
5.000
0.000
-90

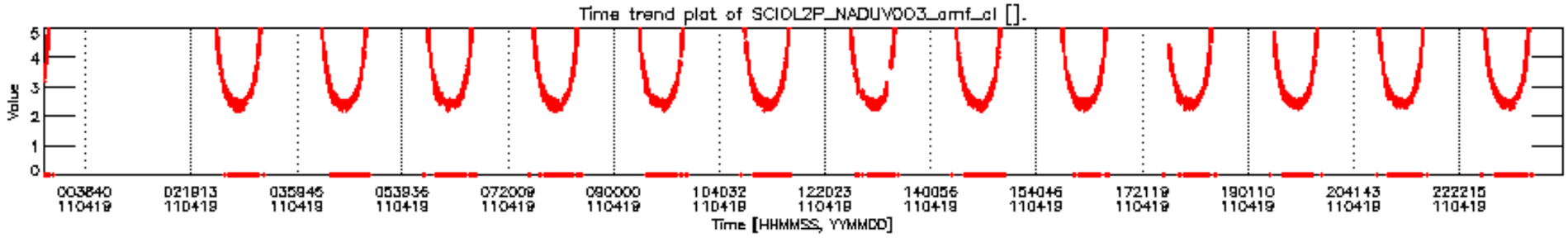

cl_opt_depth for 19APR2011 00:00:00 to 20APR2011 00:00:00
20.00
15.00
10.00
5.000
0.000
-90


cloud_flags for 19APR2011 00:00:00 to 20APR2011 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
-90

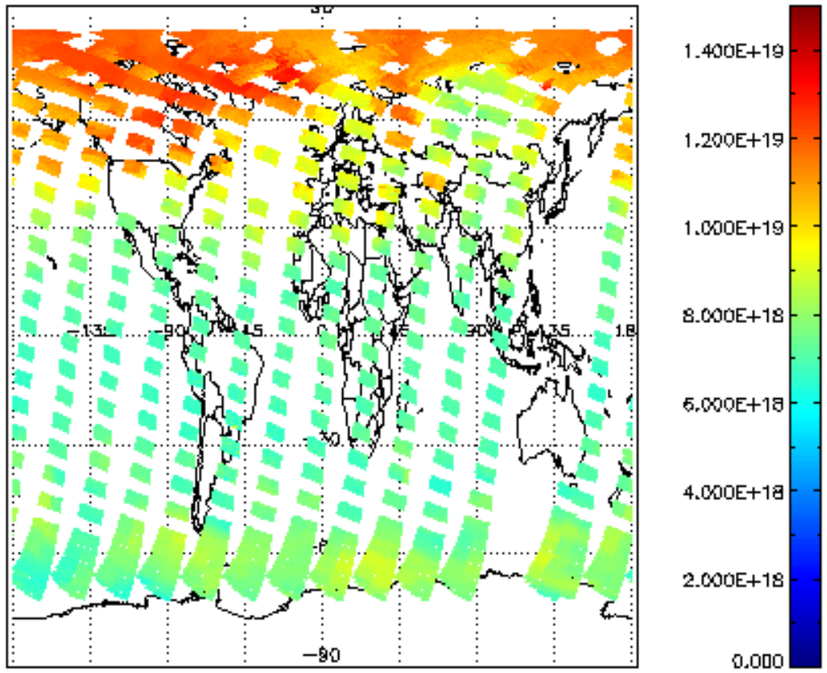

Time trend plot of SCIOL2P_NADUV003_vcd [molecules/cm2].
Value
1.4x10^18
1.2x10^18
1.0x10^18
8.0x10^18
6.0x10^18
4.0x10^18
2.0x10^18
0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
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
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

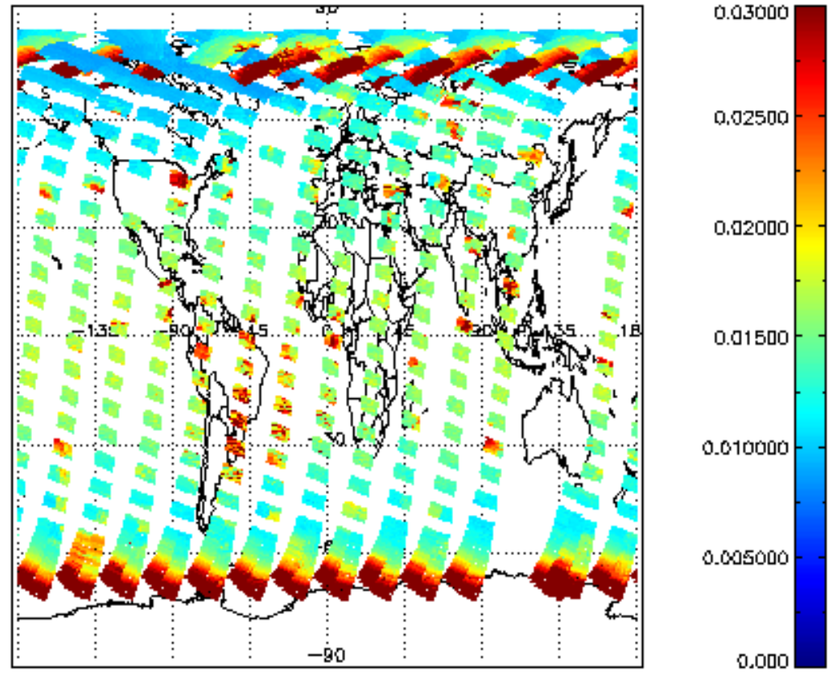

Time trend plot of SCIOL2P_NADUV003_amf_gr [].
Value
5
4
3
2
1
0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV003_amf_cl [].
Value
5
4
3
2
1
0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

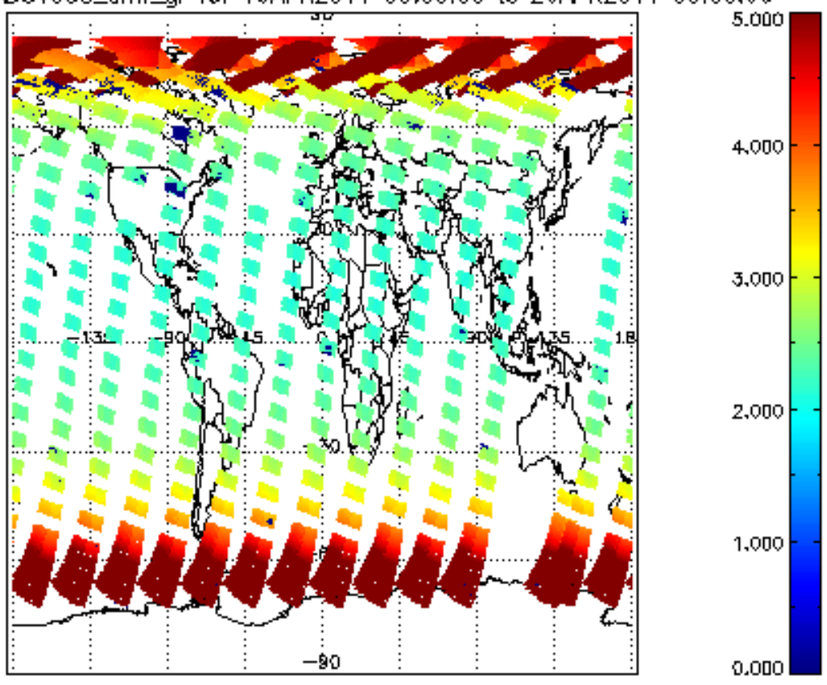
SCIOL2P_NADUV003_vcd for 19APR2011 00:00:00 to 20APR2011 00:00:00



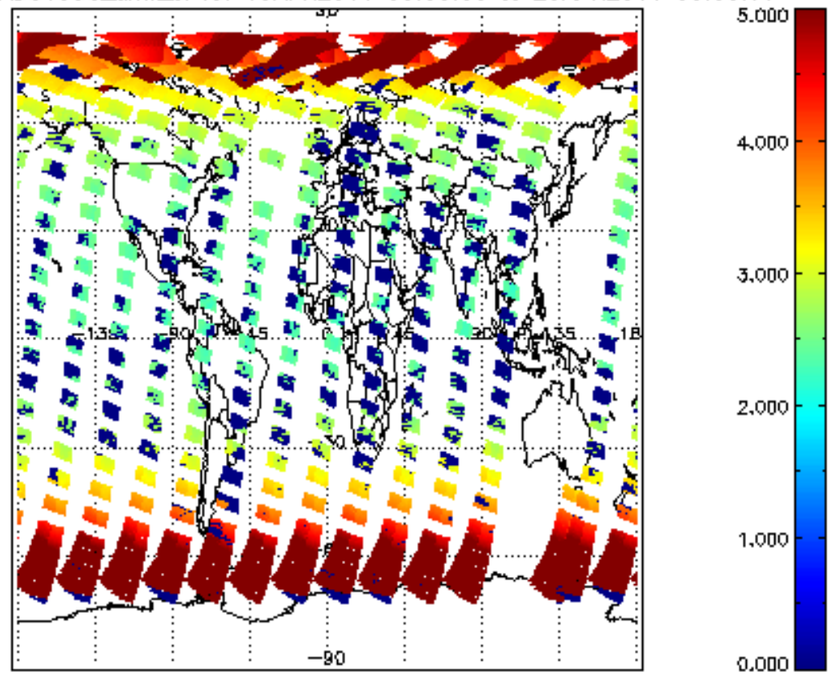
SCIOL2P_NADUV003_vcd_err for 19APR2011 00:00:00 to 20APR2011 00:00:00

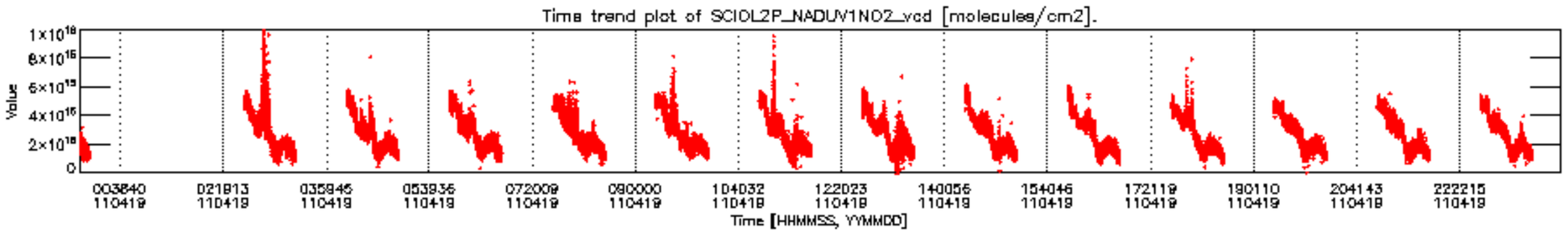


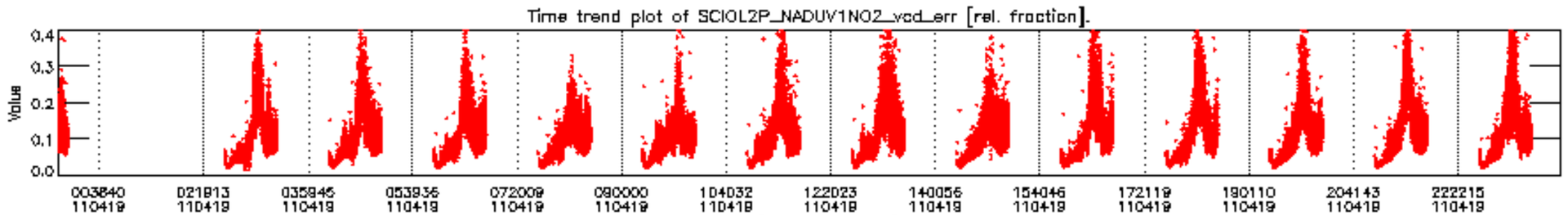
SCIOL2P_NADUV003_amf_gr for 19APR2011 00:00:00 to 20APR2011 00:00:00

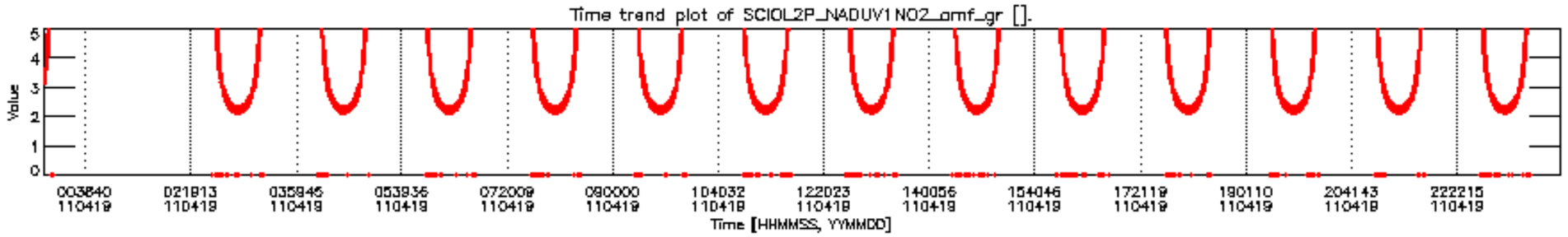


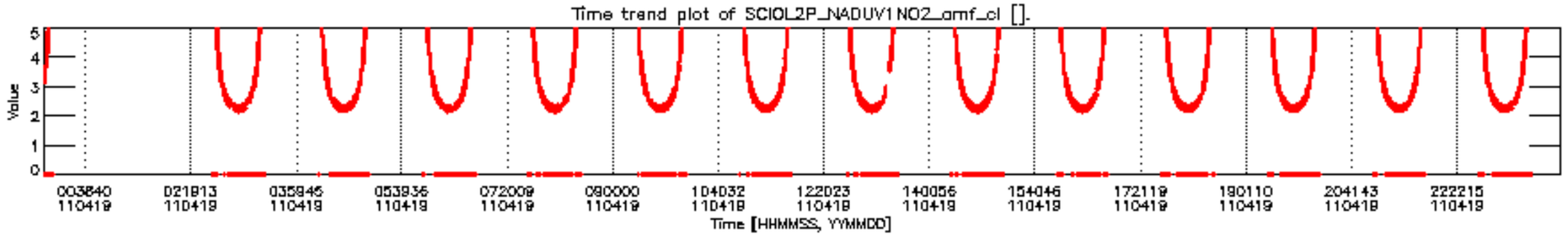
SCIOL2P_NADUV003_amf_cl for 19APR2011 00:00:00 to 20APR2011 00:00:00



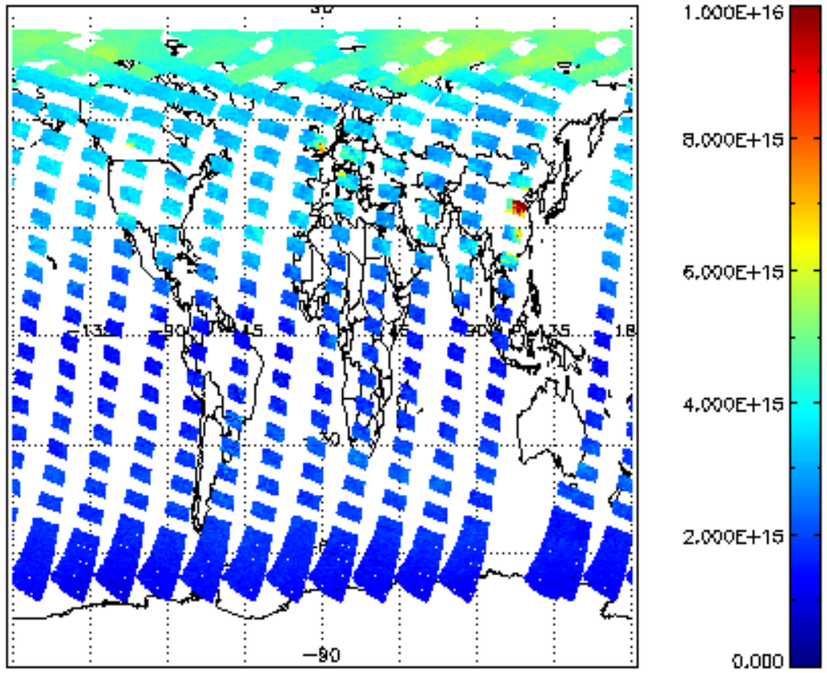

Time trend plot of SCIOL2P_NADUV1NO2_vcd [molecules/cm2].
Value
1x10^16
8x10^15
6x10^15
4x10^15
2x10^15
0
003840 110419
021813 110419
035946 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV1NO2_vcd_err [rel. fraction].
Value
0.4
0.3
0.2
0.1
0.0
003840 110419
021813 110419
035946 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

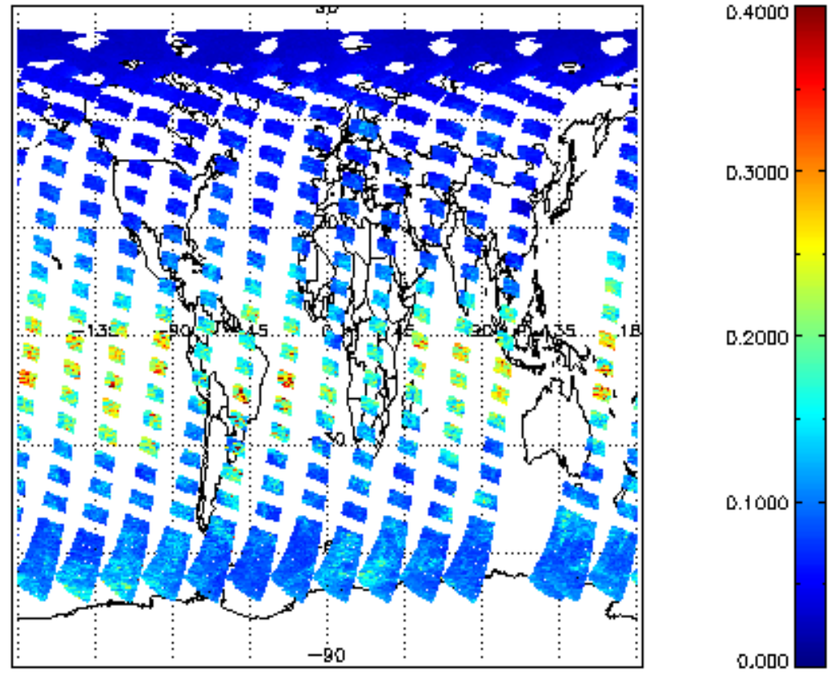

Time trend plot of SCIOL2P_NADUV1NO2_amf_gr [].
Value
5
4
3
2
1
0
003840 110419
021813 110419
035946 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV1NO2_amf_cl [].
Value
5
4
3
2
1
0
003840 110419
021813 110419
035946 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

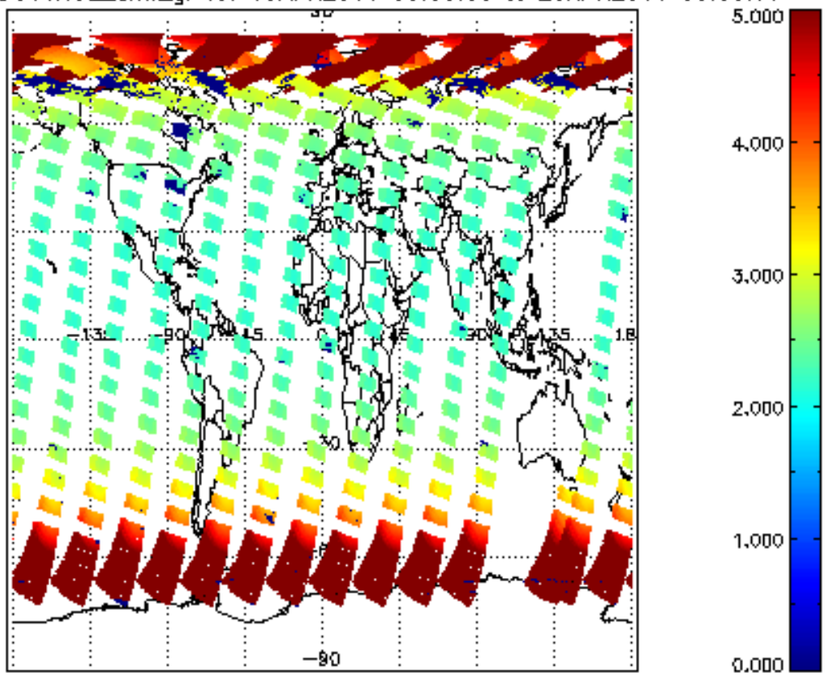
SCIOL2P_NADUV1NO2_vcd for 19APR2011 00:00:00 to 20APR2011 00:00:00



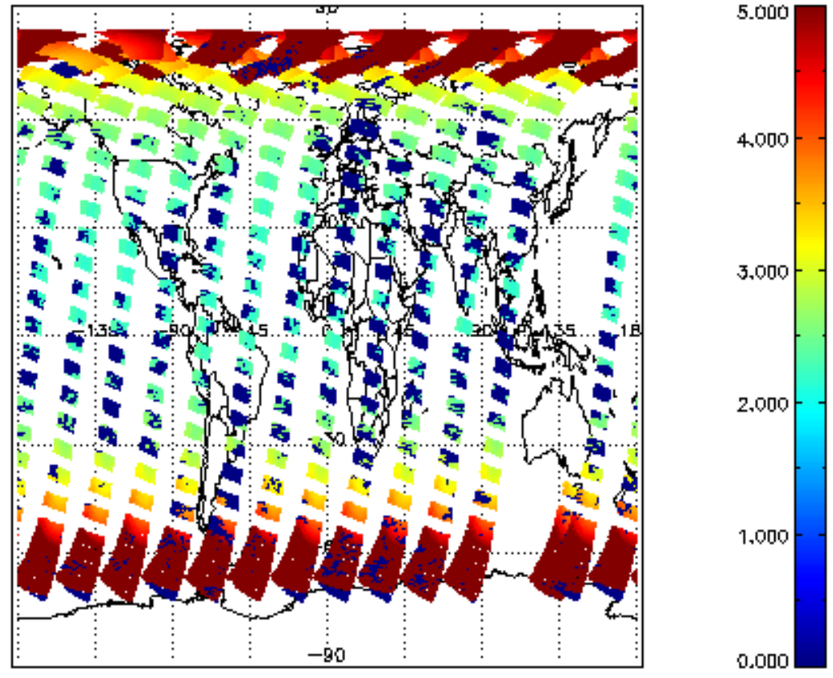
SCIOL2P_NADUV1NO2_vcd_err for 19APR2011 00:00:00 to 20APR2011 00:00:00

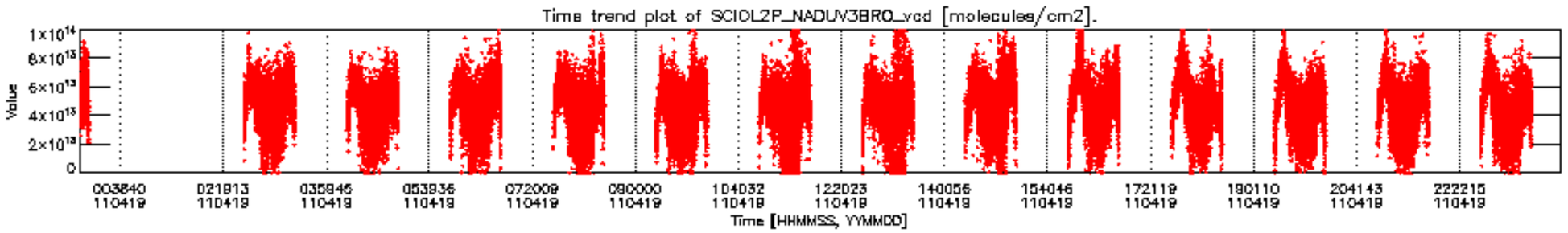


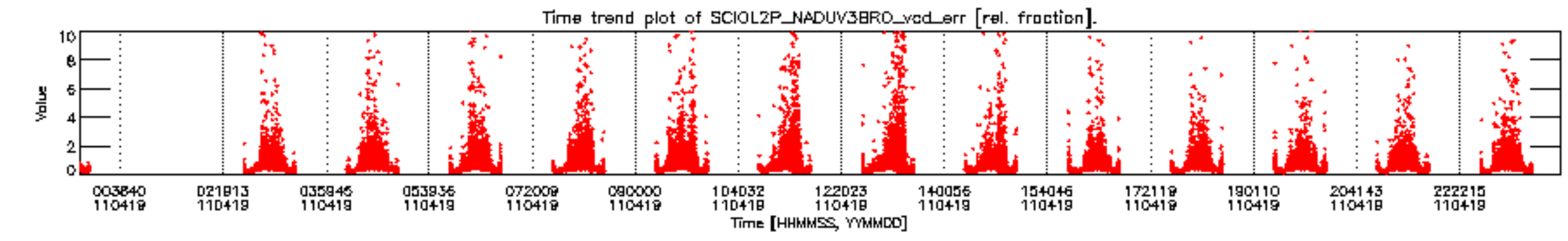
SCIOL2P_NADUV1NO2_amf_gr for 19APR2011 00:00:00 to 20APR2011 00:00:00

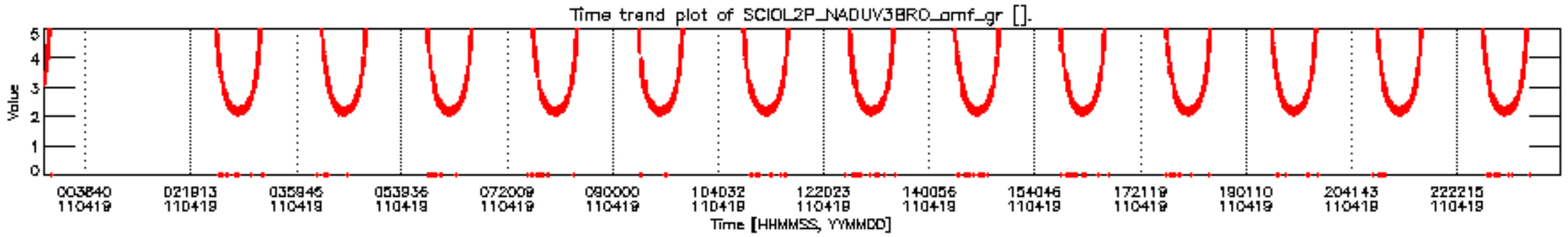


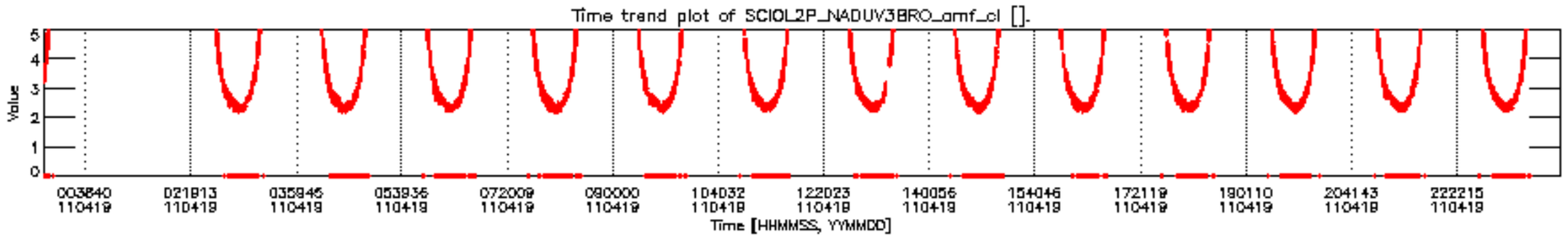
SCIOL2P_NADUV1NO2_amf_cl for 19APR2011 00:00:00 to 20APR2011 00:00:00



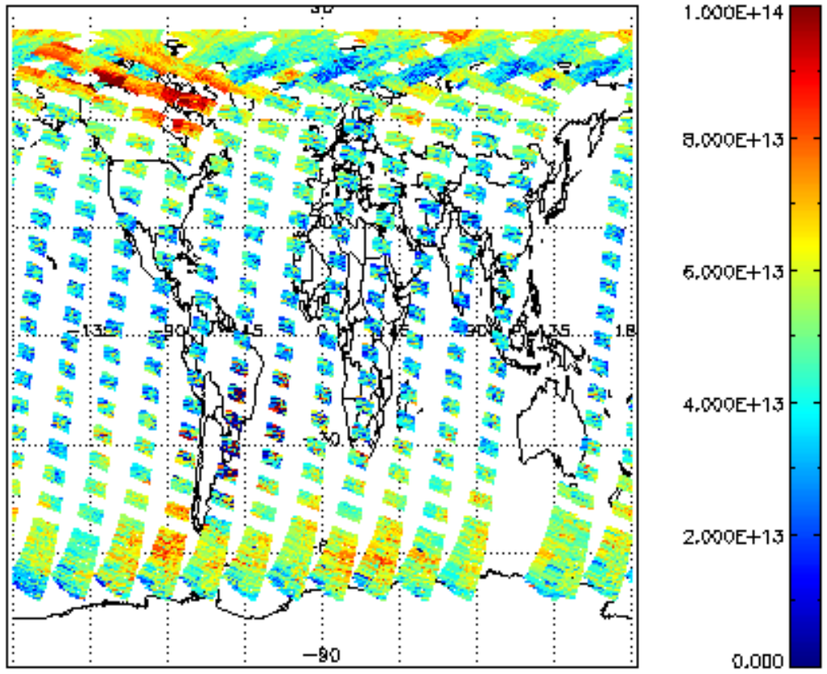

Time trend plot of SCIOL2P_NADUV3BRO_vcd [molecules/cm2].
Value
1x10^14
8x10^13
6x10^13
4x10^13
2x10^13
0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV3BRO_vcd_err [rel. fraction].
Value
10
8
6
4
2
0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

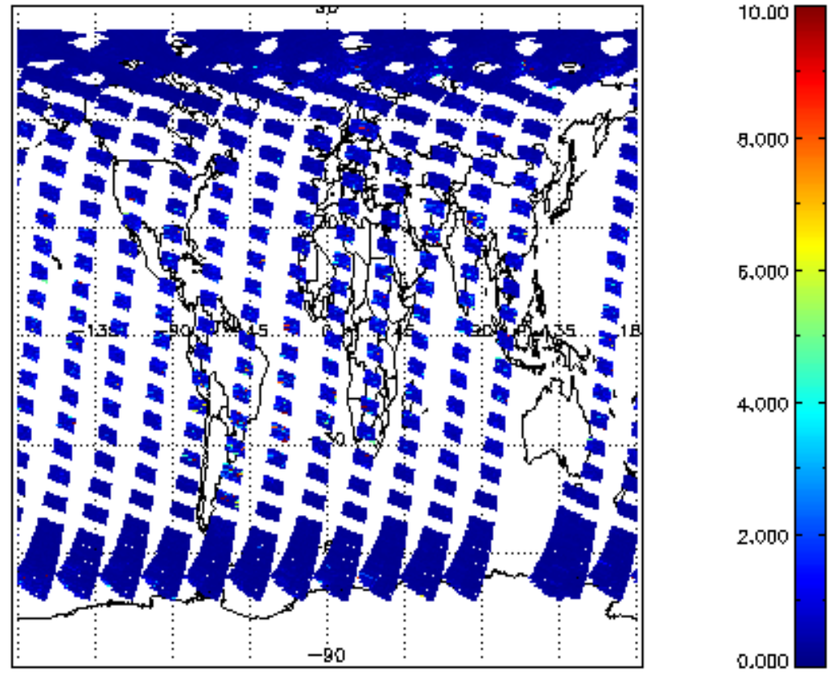

Time trend plot of SCIOL2P_NADUV3BRO_amf_gr [].
Value
5
4
3
2
1
0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV3BRO_amf_cl [].
Value
5
4
3
2
1
0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

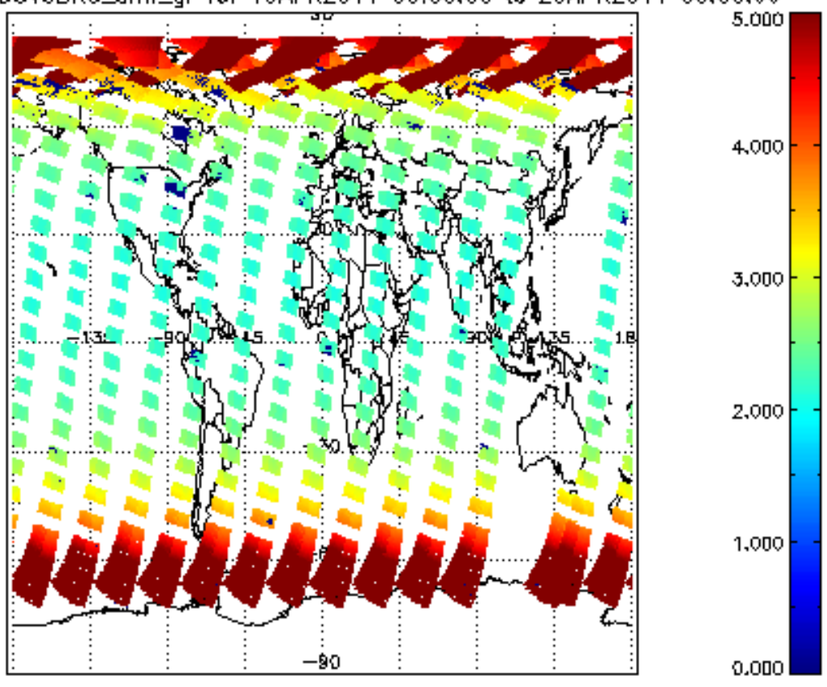
SCIOL2P_NADUV3BRO_vcd for 19APR2011 00:00:00 to 20APR2011 00:00:00



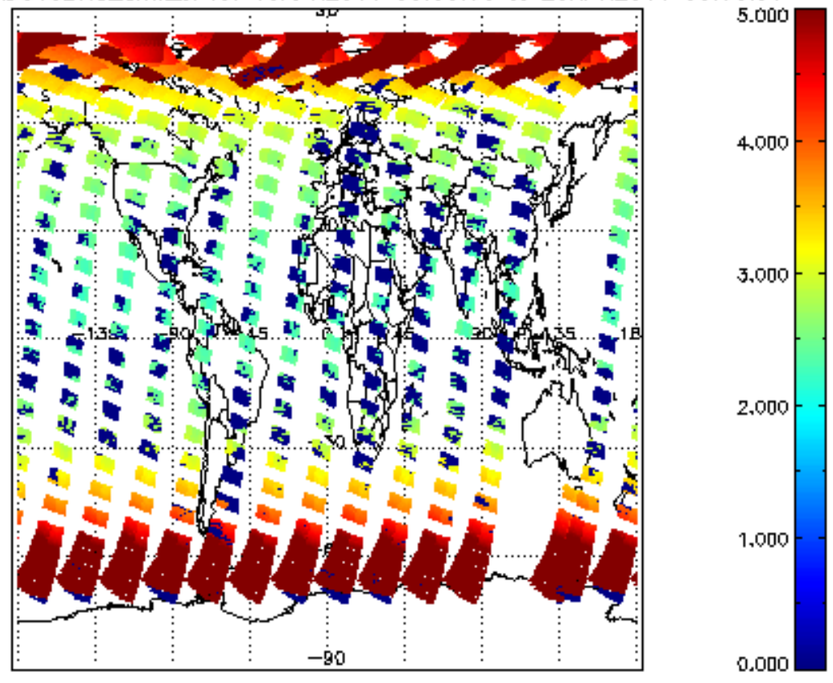
SCIOL2P_NADUV3BRO_vcd_err for 19APR2011 00:00:00 to 20APR2011 00:00:00

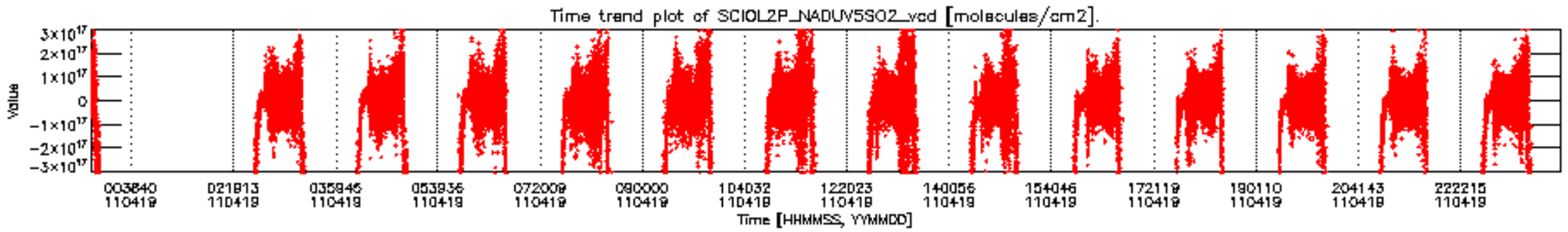


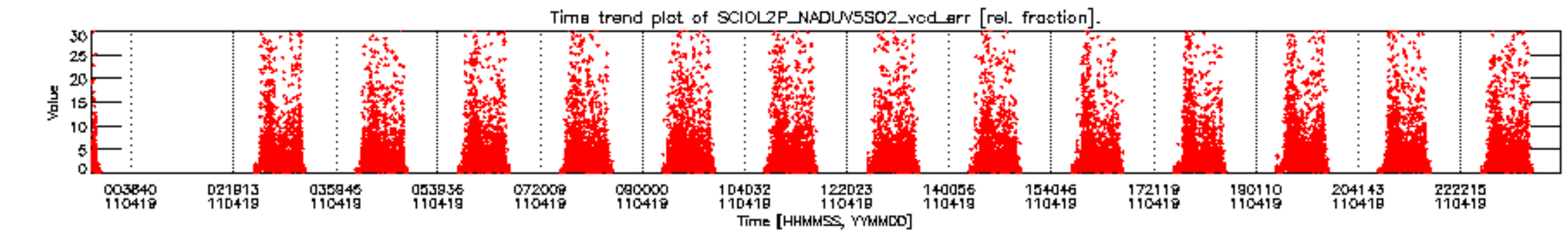
SCIOL2P_NADUV3BRO_amf_gr for 19APR2011 00:00:00 to 20APR2011 00:00:00

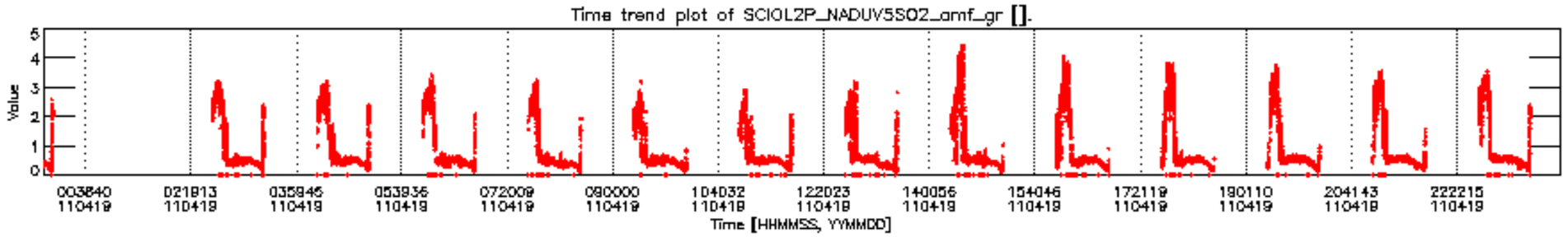


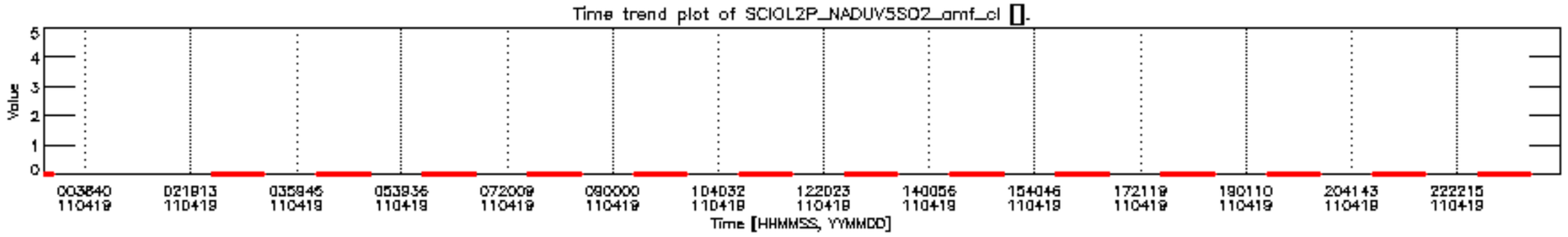
SCIOL2P_NADUV3BRO_amf_cl for 19APR2011 00:00:00 to 20APR2011 00:00:00



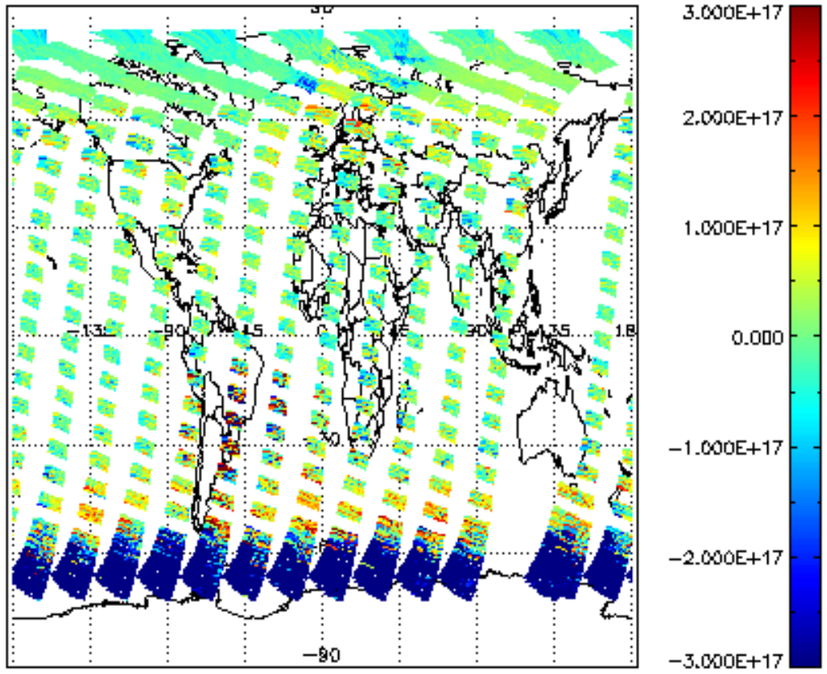

Time trend plot of SCIOL2P_NADUV5SO2_vcd [molecules/cm2].
Value
3x10^17
2x10^17
1x10^17
0
-1x10^17
-2x10^17
-3x10^17
003840 110419
021813 110419
035846 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV5SO2_vcd_err [rel. fraction].
Value
30
25
20
15
10
5
0
003840 110419
021813 110419
035846 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

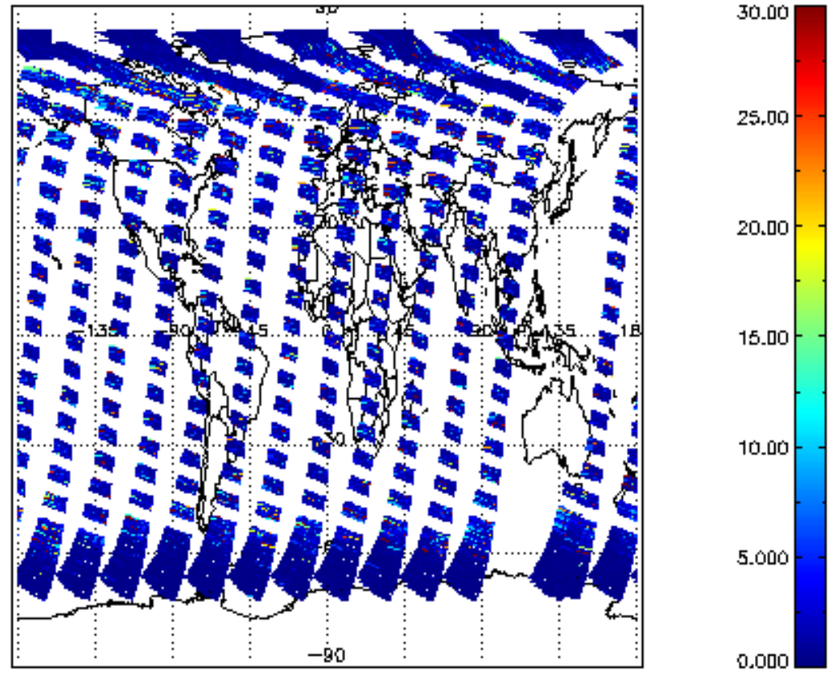

Time trend plot of SCIOL2P_NADUV5SO2_amf_gr [].
Value
5
4
3
2
1
0
003840 110419
021813 110419
035846 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV5SO2_amf_cl [].
Value
5
4
3
2
1
0
003840 110419
021813 110419
035846 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

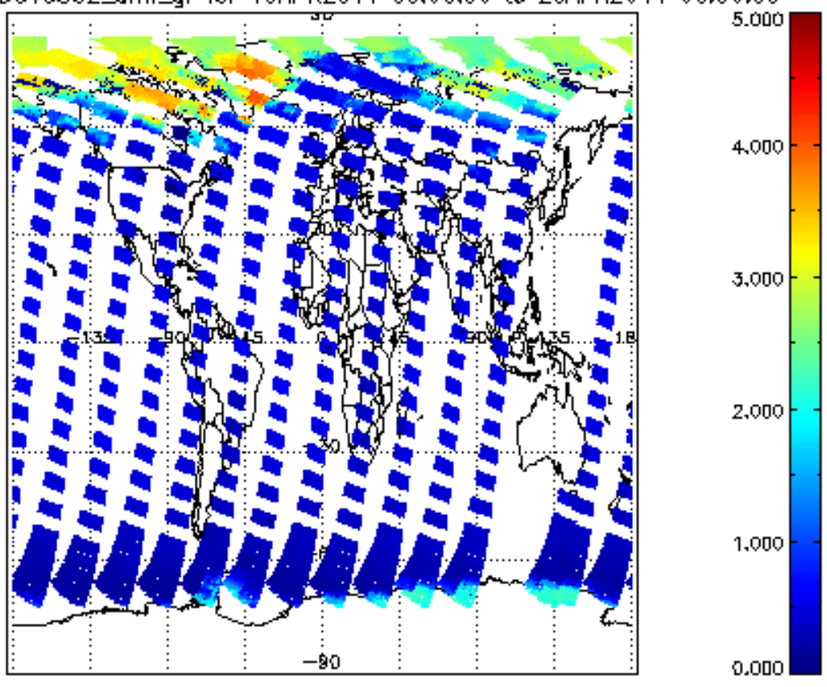
SCIOL2P_NADUV5SO2_vcd for 19APR2011 00:00:00 to 20APR2011 00:00:00



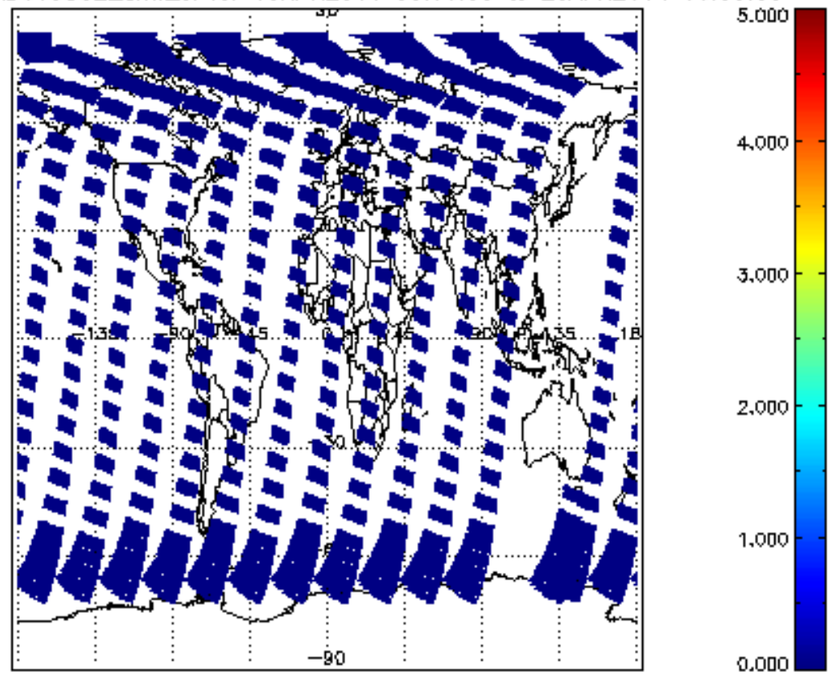
SCIOL2P_NADUV5SO2_vcd_err for 19APR2011 00:00:00 to 20APR2011 00:00:00

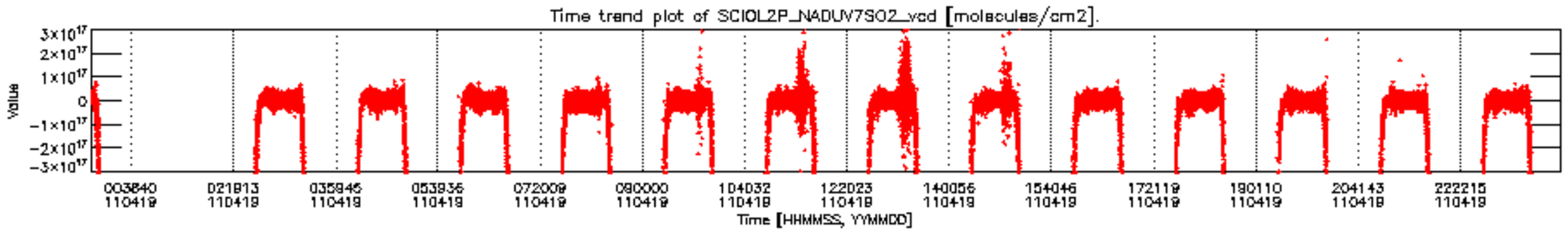


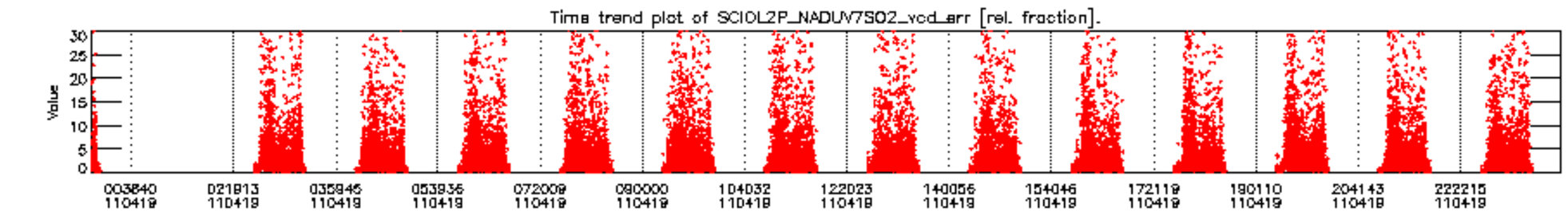
SCIOL2P_NADUV5SO2_amf_gr for 19APR2011 00:00:00 to 20APR2011 00:00:00

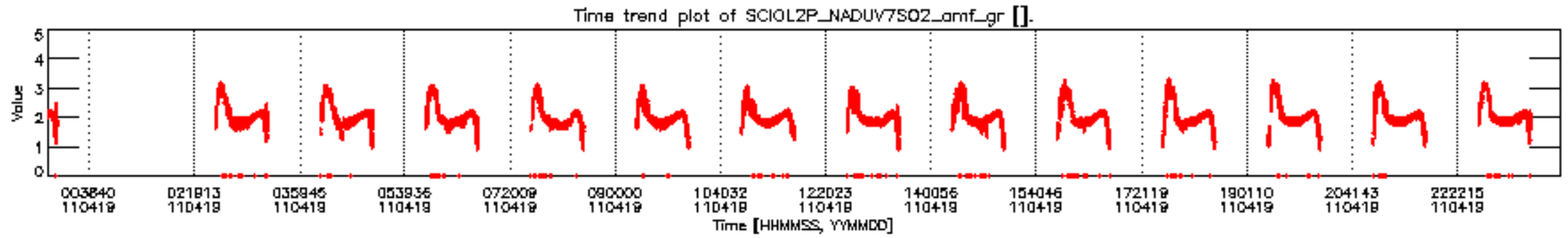


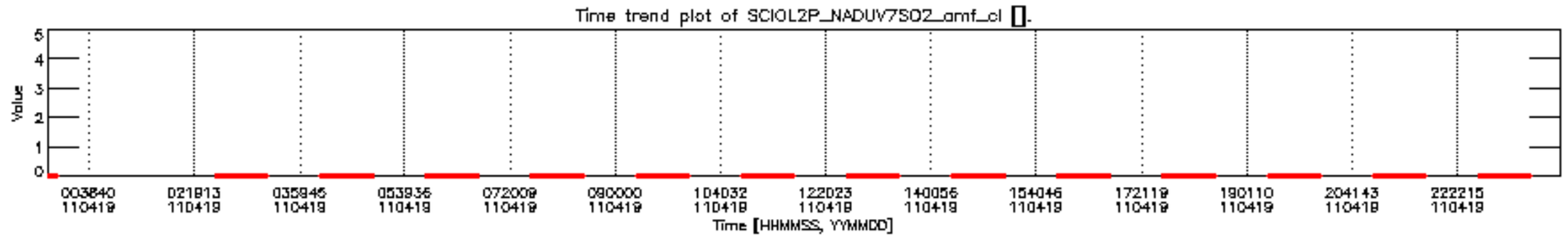
SCIOL2P_NADUV5SO2_amf_cl for 19APR2011 00:00:00 to 20APR2011 00:00:00



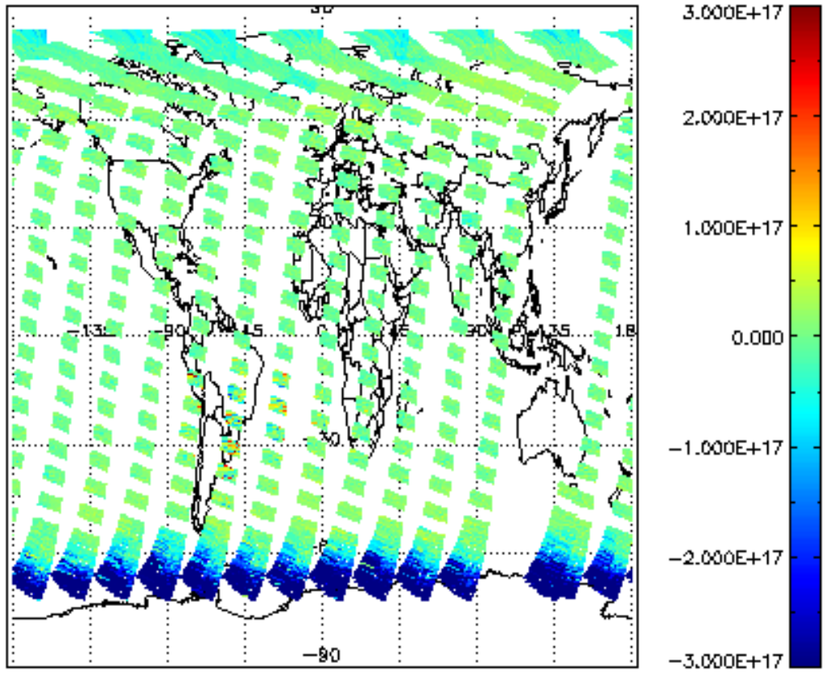

Time trend plot of SCIOL2P_NADUV7SO2_vcd [molecules/cm2].
Value
3x10^17
2x10^17
1x10^17
0
-1x10^17
-2x10^17
-3x10^17
003840 110419
021813 110419
035846 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV7SO2_vcd_err [rel. fraction].
Value
30
25
20
15
10
5
0
003840 110419
021813 110419
035846 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

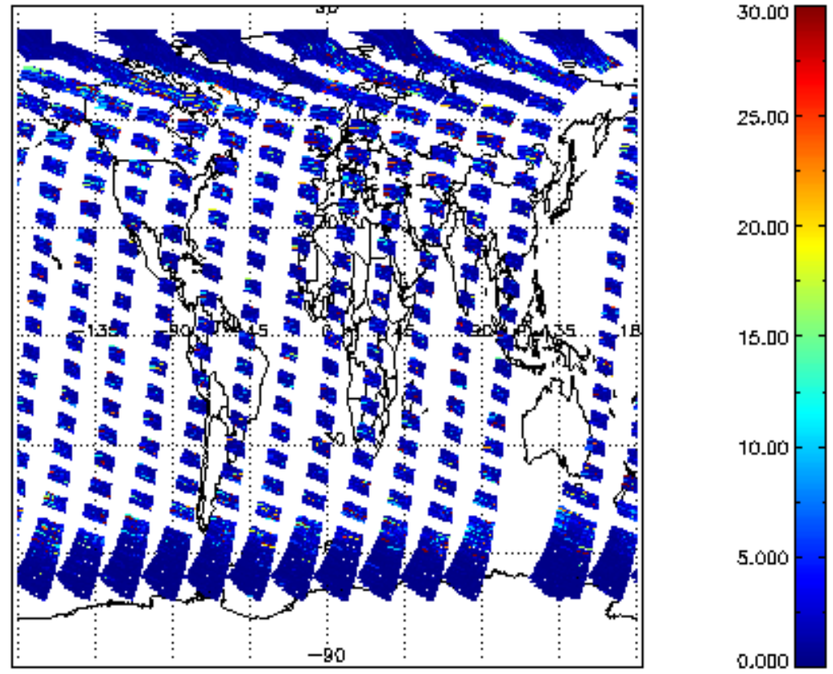

Time trend plot of SCIOL2P_NADUV7SO2_amf_gr [].
Value
5
4
3
2
1
0
003840 110419
021813 110419
035846 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV7SO2_amf_cl [].
Value
5
4
3
2
1
0
003840 110419
021813 110419
035846 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

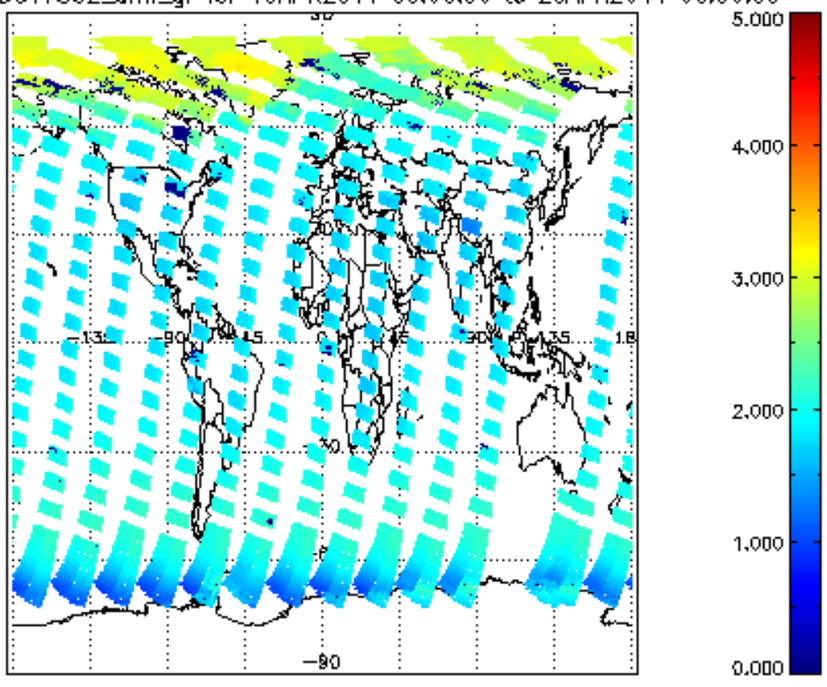
SCIOL2P_NADUV7SO2_vcd for 19APR2011 00:00:00 to 20APR2011 00:00:00



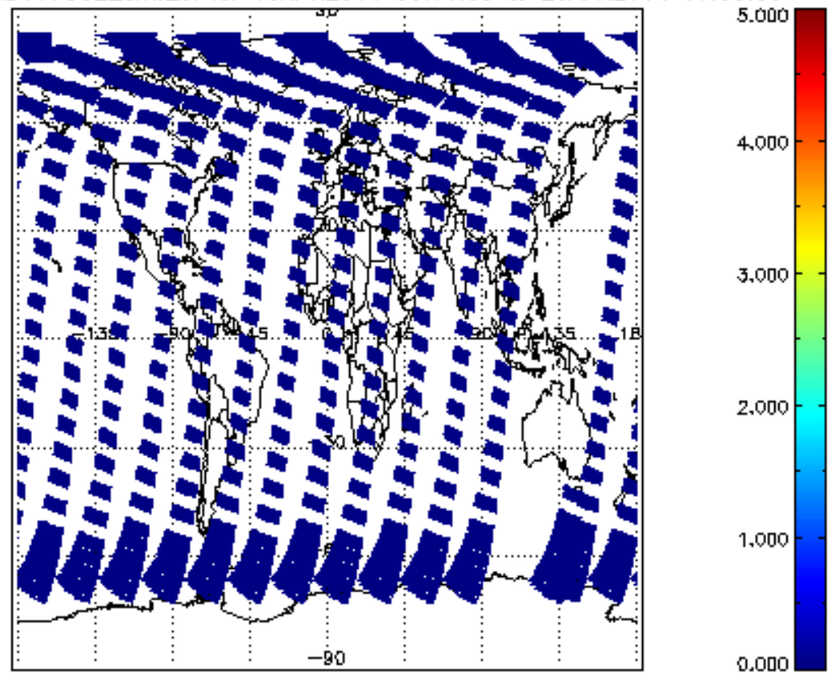
SCIOL2P_NADUV7SO2_vcd_err for 19APR2011 00:00:00 to 20APR2011 00:00:00

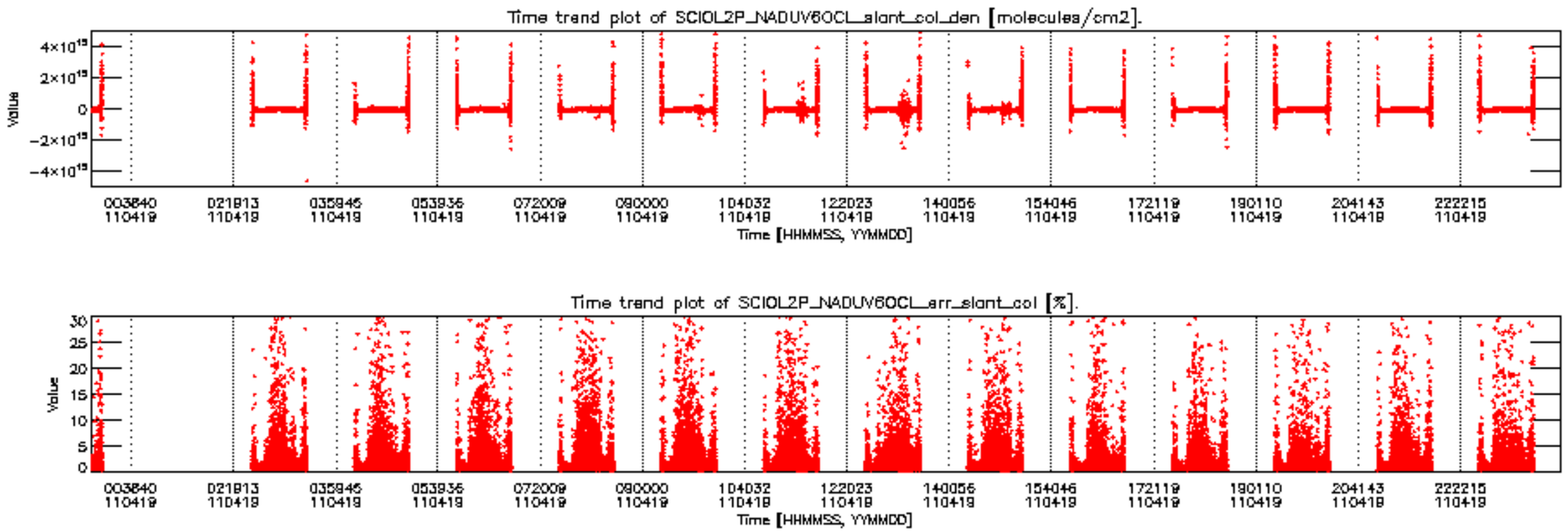


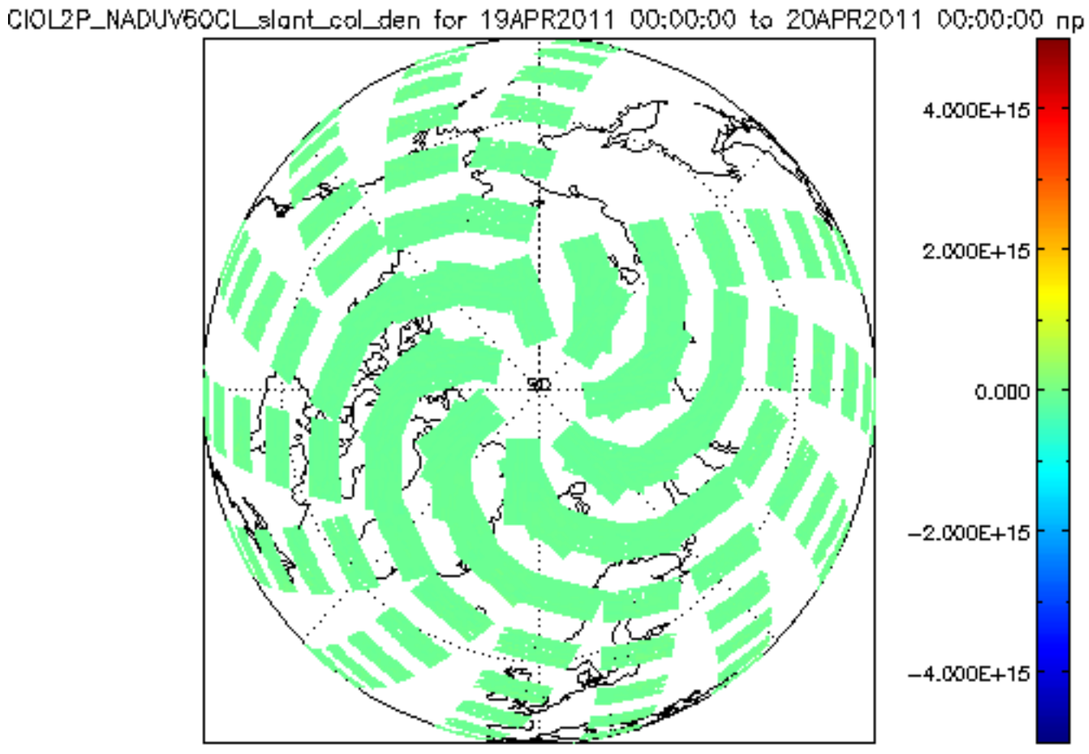
SCIOL2P_NADUV7SO2_amf_gr for 19APR2011 00:00:00 to 20APR2011 00:00:00

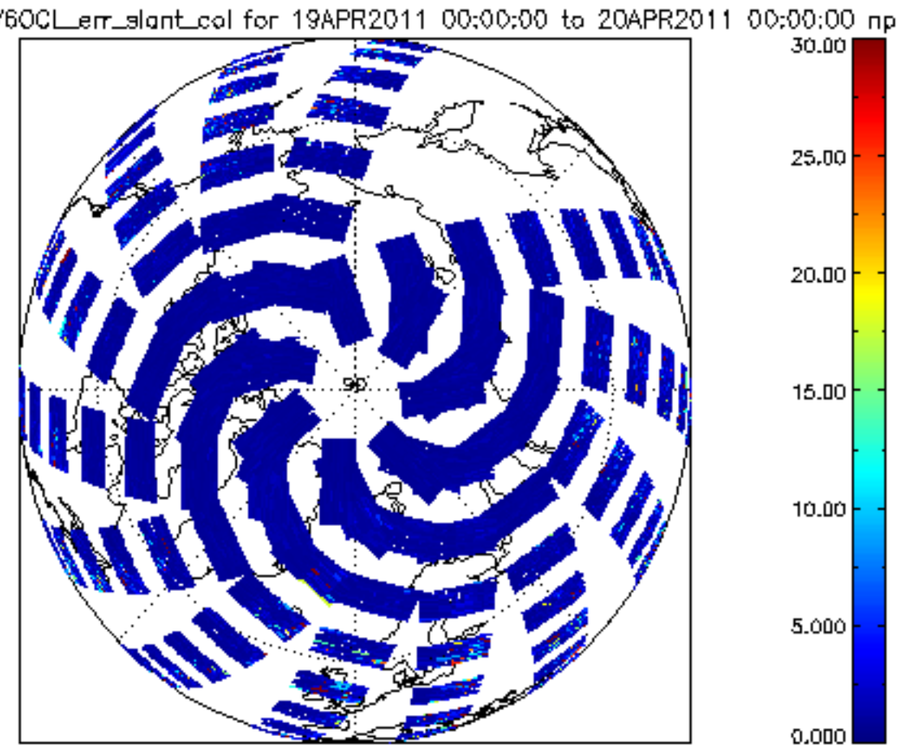


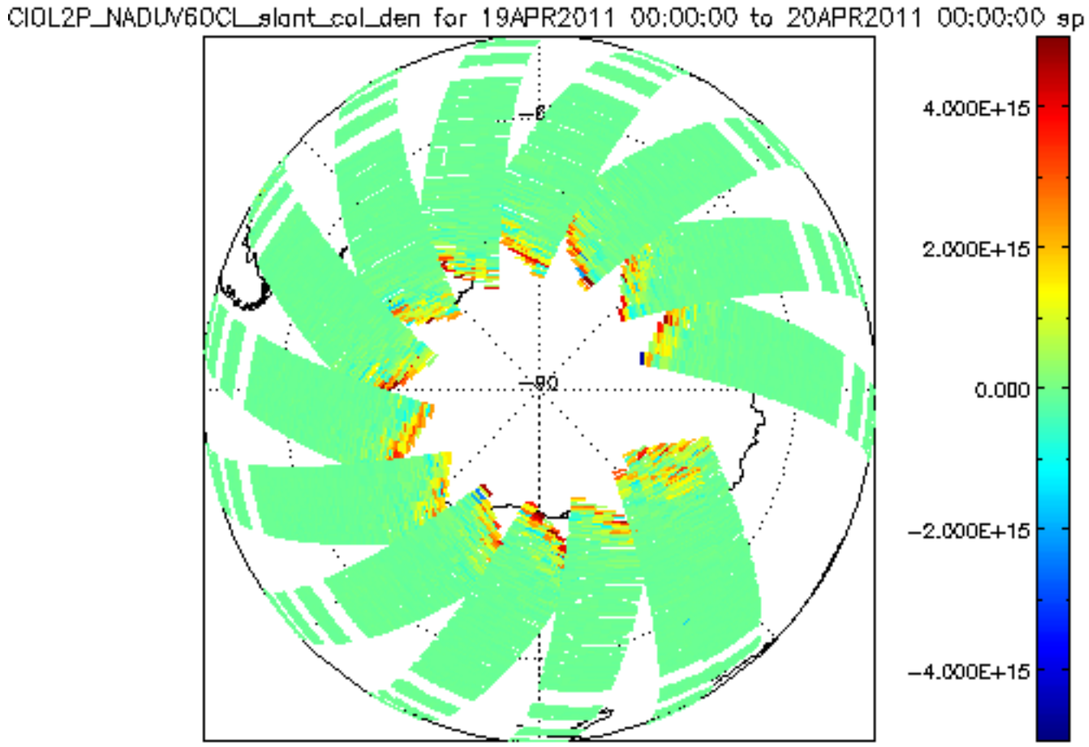
SCIOL2P_NADUV7SO2_amf_cl for 19APR2011 00:00:00 to 20APR2011 00:00:00

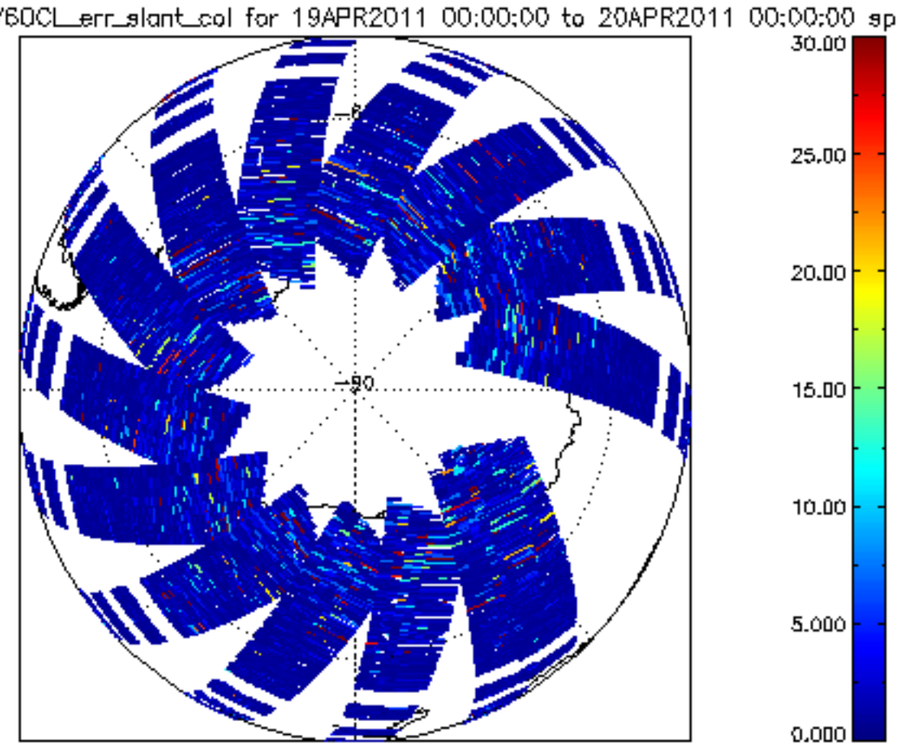


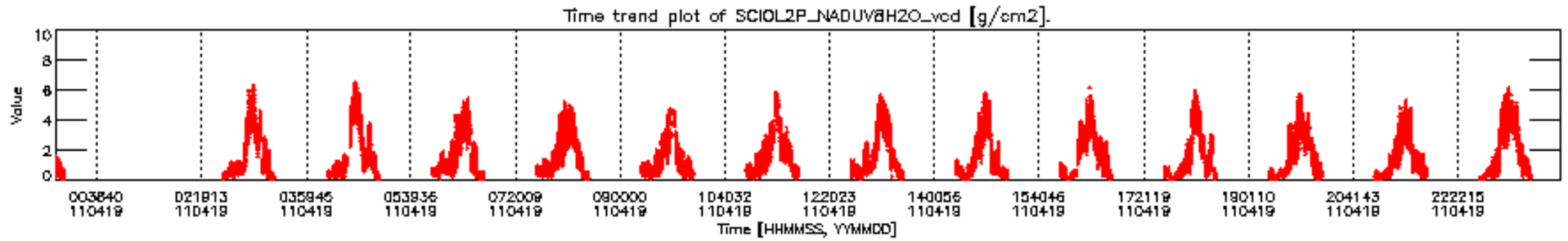

Time trend plot of SCIOL2P_NADUV6OCL_slant_col_den [molecules/cm2].
Value
4×10¹⁵
2×10¹⁵
0
−2×10¹⁵
−4×10¹⁵
003640 110419
021813 110419
035945 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]
Time trend plot of SCIOL2P_NADUV6OCL_arr_slant_col [%].
Value
30
25
20
15
10
5
0
003640 110419
021813 110419
035945 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

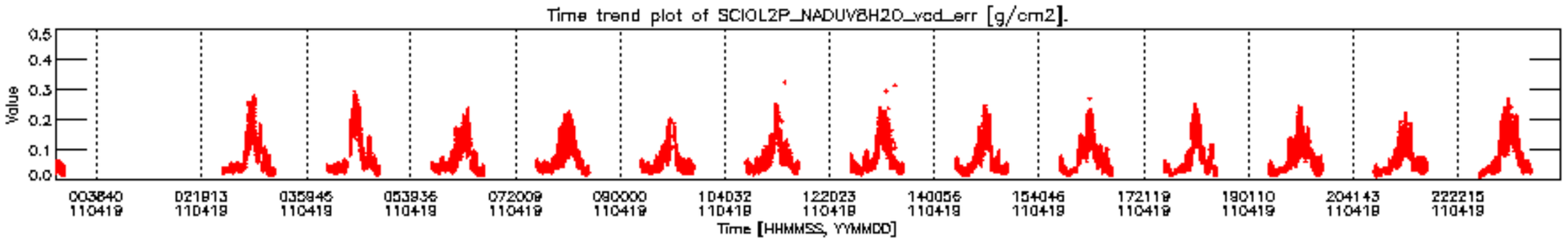

ClOL2P_NADUV6OCL_slant_col_den for 19APR2011 00:00:00 to 20APR2011 00:00:00 np
4.000E+15
2.000E+15
0.000
−2.000E+15
−4.000E+15

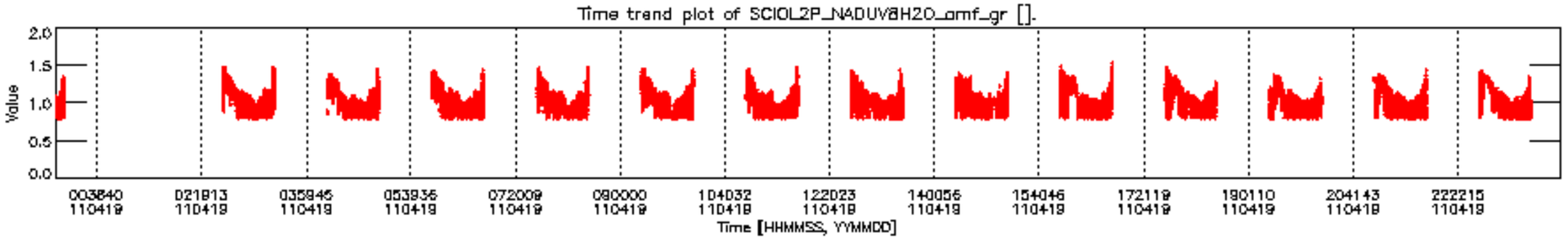

iClOL2P_NADUV6OCL_err_slant_col for 19APR2011 00:00:00 to 20APR2011 00:00:00 np
30.00
25.00
20.00
15.00
10.00
5.000
0.000


ClOL2P_NADUV6OCL_slant_col_den for 19APR2011 00:00:00 to 20APR2011 00:00:00 sp
4.000E+15
2.000E+15
0.000
−2.000E+15
−4.000E+15

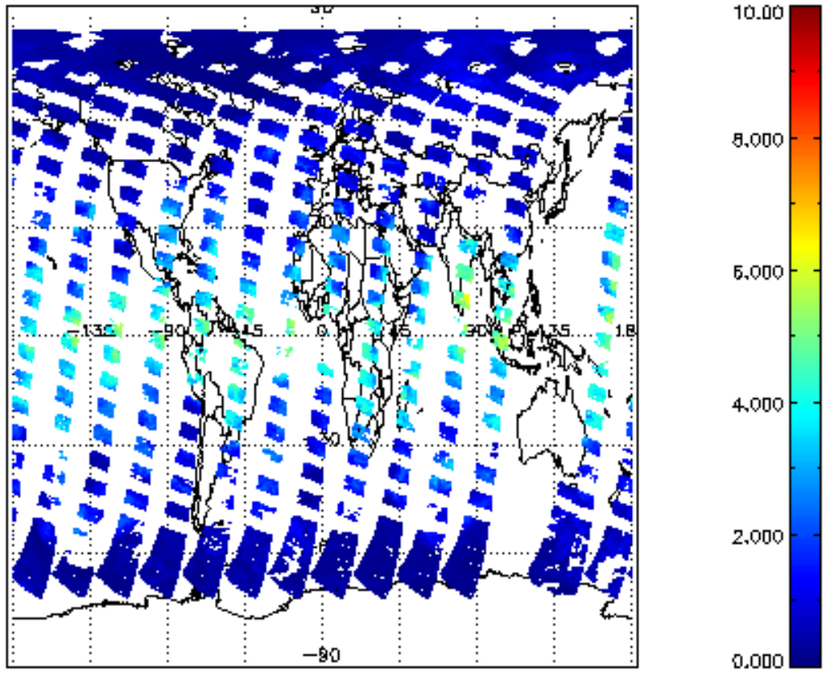

ClOL2P_NADUV6OCL_err_slant_col for 19APR2011 00:00:00 to 20APR2011 00:00:00 sp
30.00
25.00
20.00
15.00
10.00
5.000
0.000


Time trend plot of SCIOL2P_NADUVBH2O_vcd [g/cm2].
Value
10
8
6
4
2
0
003840 110419
021813 110419
035945 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

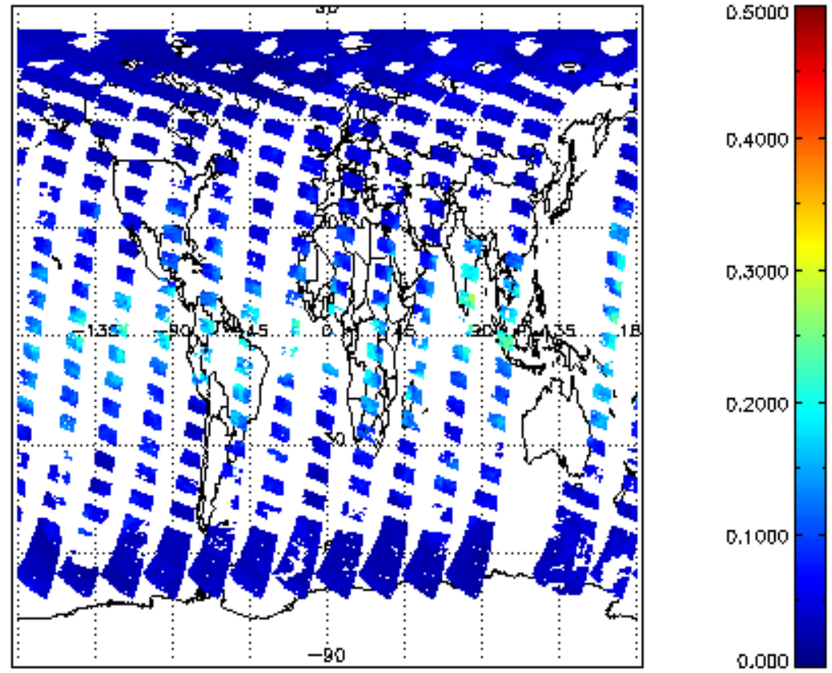

Time trend plot of SCIOL2P_NADUVBH2O_vcd_err [g/cm2].
Value
0.5
0.4
0.3
0.2
0.1
0.0
003840 110419
021813 110419
035945 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUVBH2O_amf_gr [].
Value
2.0
1.5
1.0
0.5
0.0
003840 110419
021813 110419
035945 110419
053936 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]

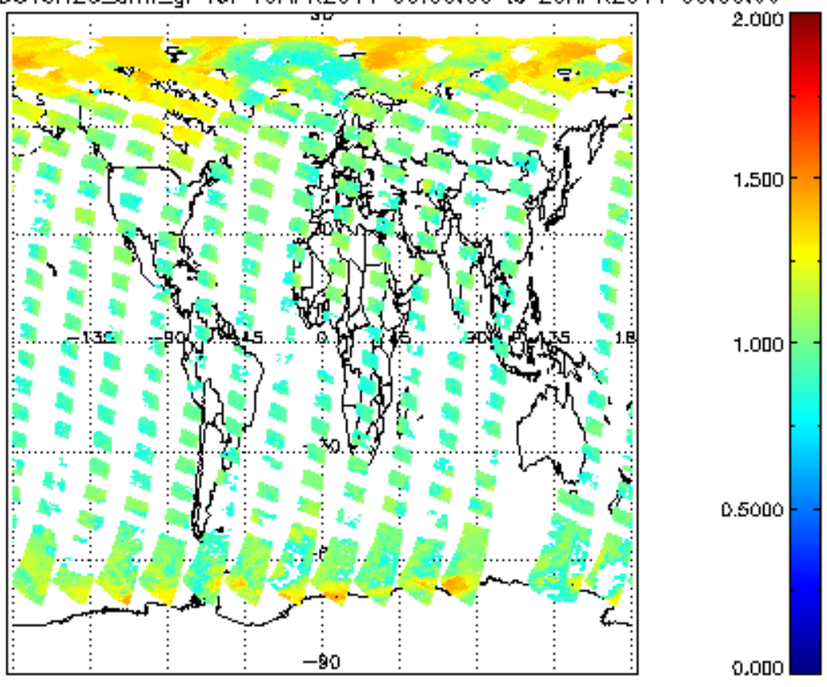
SCIOL2P_NADUV8H2O_vcd for 19APR2011 00:00:00 to 20APR2011 00:00:00

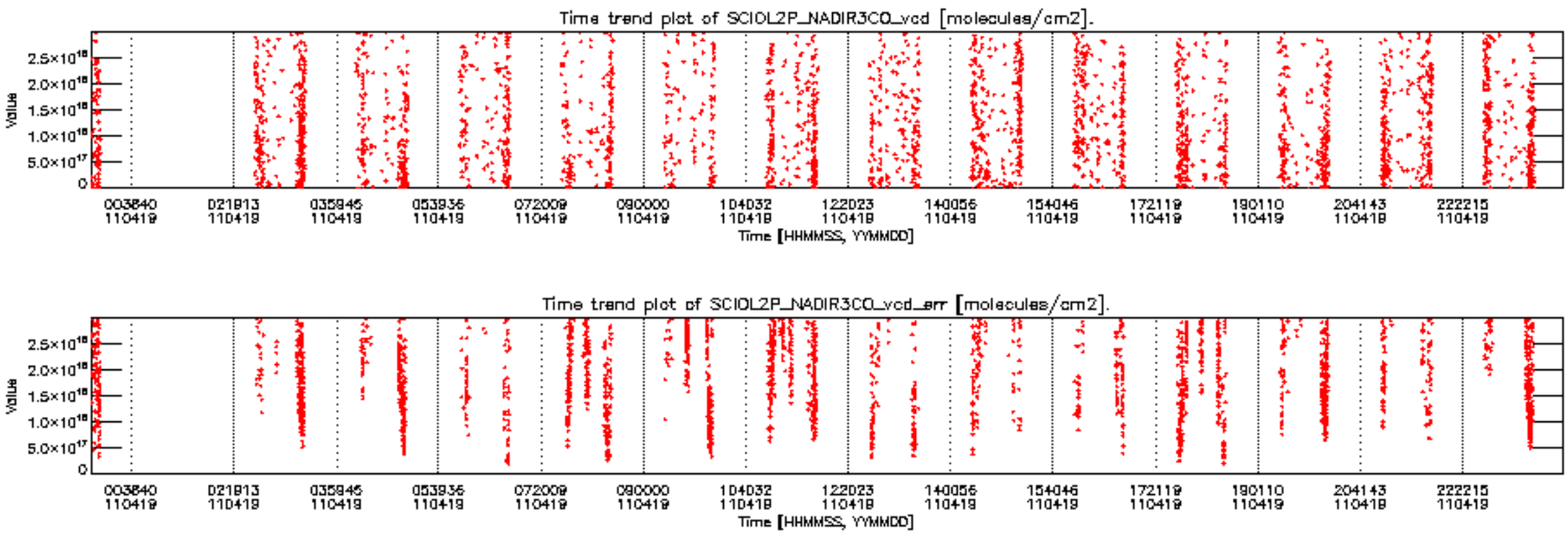


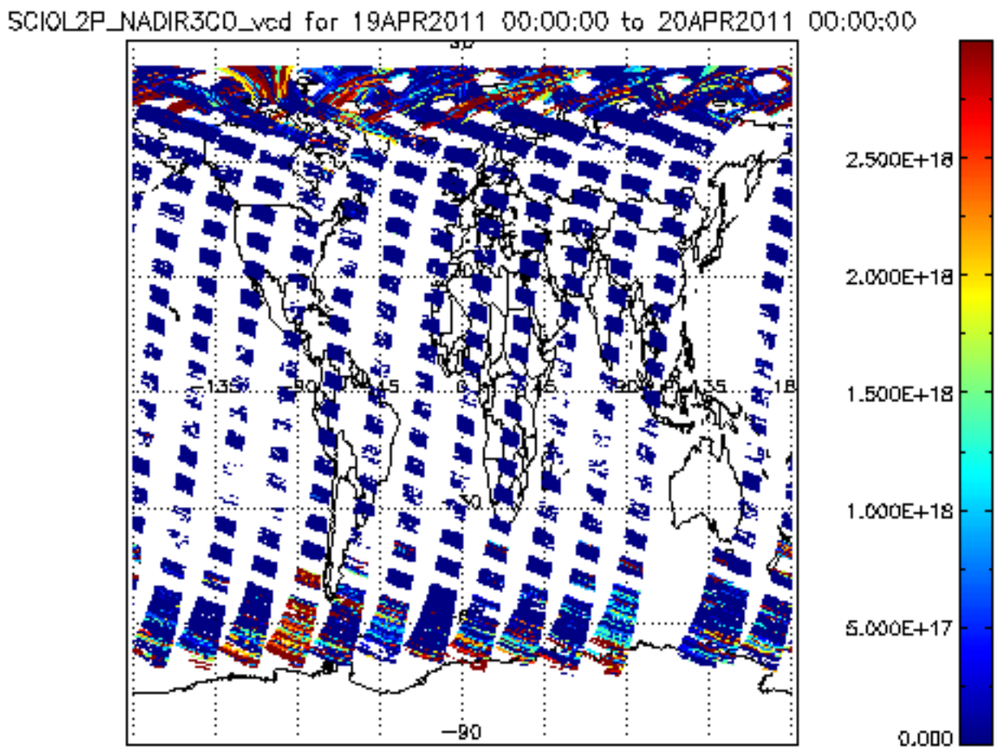
SCIOL2P_NADUV8H2O_vcd_err for 19APR2011 00:00:00 to 20APR2011 00:00:00

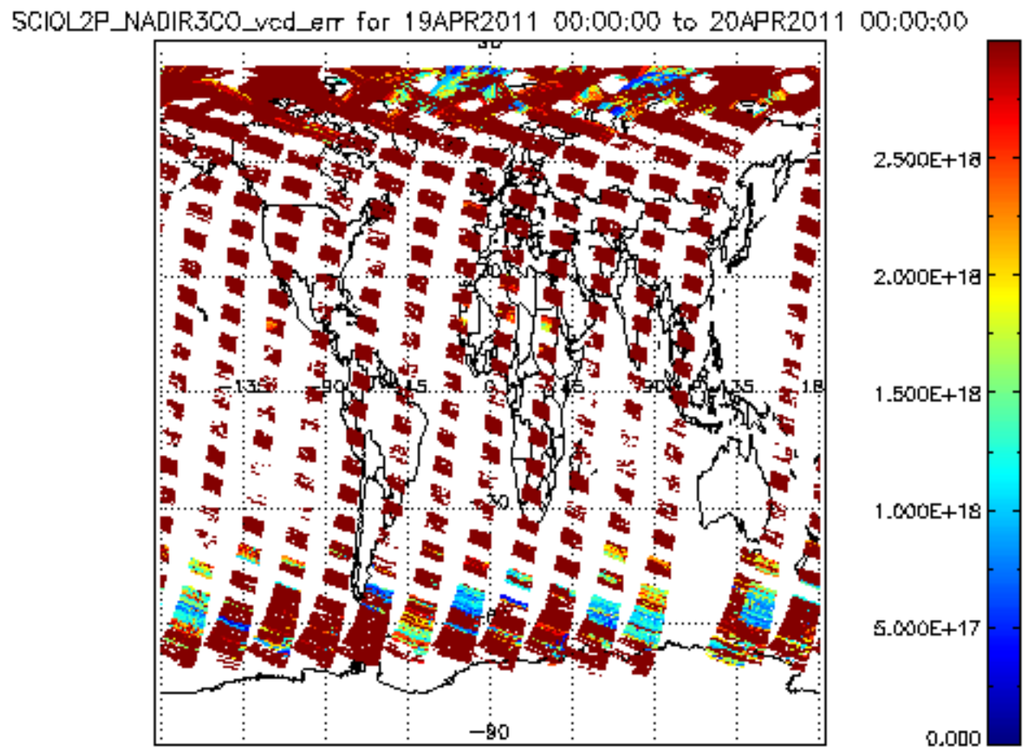


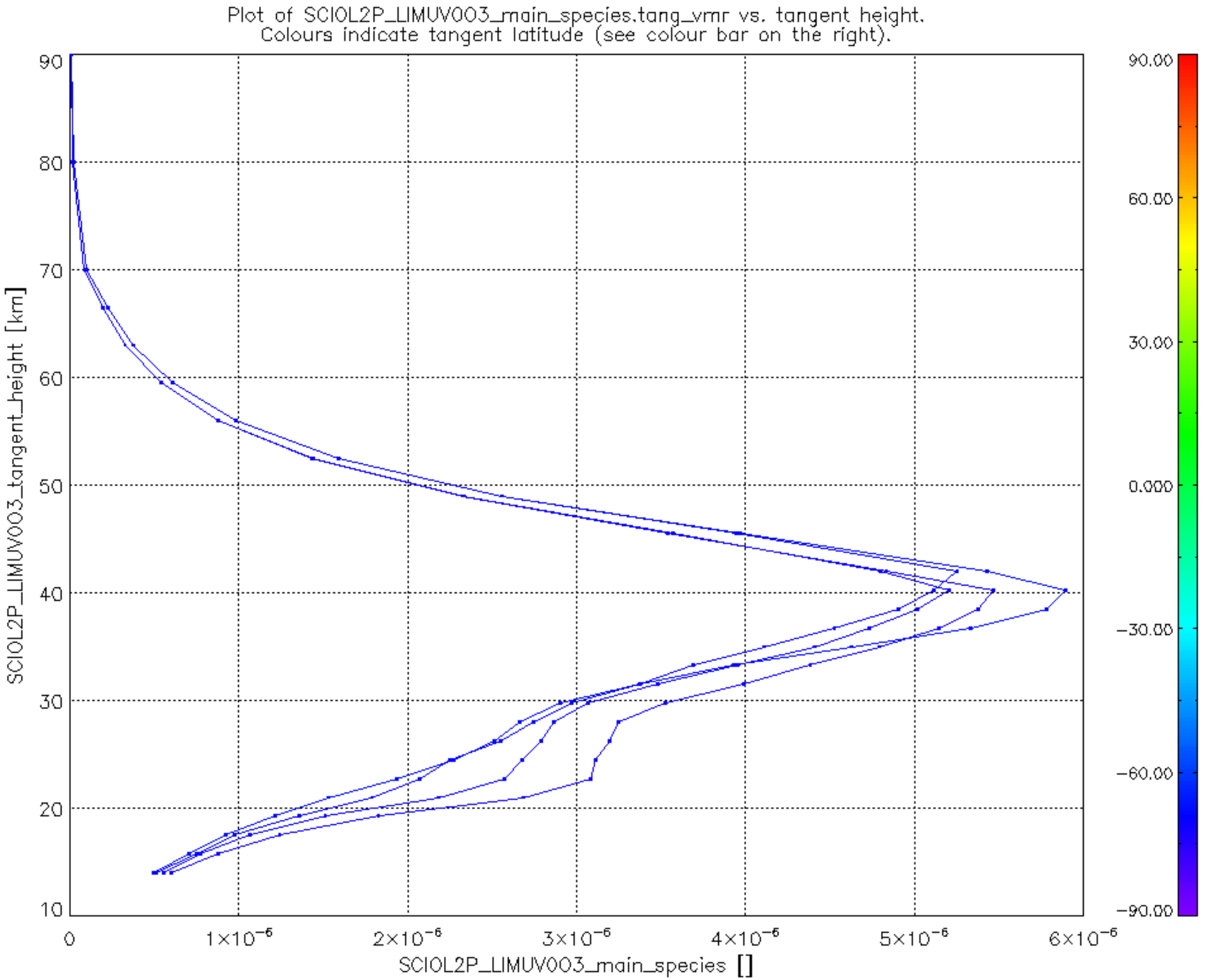
SCIOL2P_NADUV8H2O_amf_gr for 19APR2011 00:00:00 to 20APR2011 00:00:00



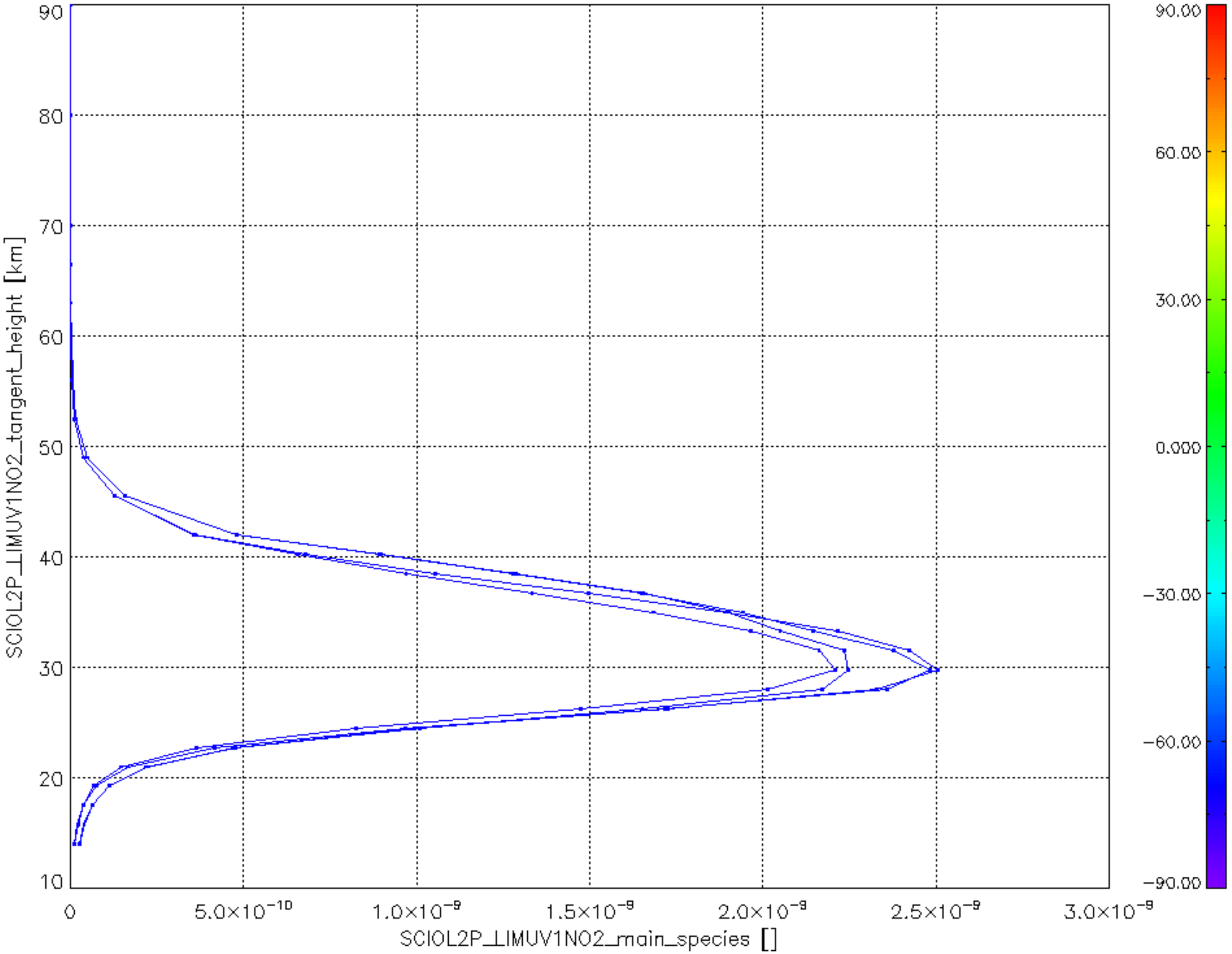

Time trend plot of SCIOL2P_NADIR3CO_vcd [molecules/cm2].
Value
2.5×10^18
2.0×10^18
1.5×10^18
1.0×10^18
5.0×10^17
0
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
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
003840 110419
021813 110419
035845 110419
053836 110419
072009 110419
090000 110419
104032 110419
122023 110419
140056 110419
154046 110419
172119 110419
190110 110419
204143 110419
222215 110419
Time [HHMMSS, YYMMDD]


SCIOL2P_NADIR3CO_vcd for 19APR2011 00:00:00 to 20APR2011 00:00:00
2.500E+18
2.000E+18
1.500E+18
1.000E+18
5.000E+17
0.000
−90


SCIOL2P_NADIR3CO_vcd_err for 19APR2011 00:00:00 to 20APR2011 00:00:00
2.500E+18
2.000E+18
1.500E+18
1.000E+18
5.000E+17
0.000
−90


Plot of SCIOL2P_LIMUV003_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).
SCIOL2P_LIMUV003_tangent_height [km]
90
80
70
60
50
40
30
20
10
0
1×10⁻⁶
2×10⁻⁶
3×10⁻⁶
4×10⁻⁶
5×10⁻⁶
6×10⁻⁶
SCIOL2P_LIMUV003_main_species []
90.00
60.00
30.00
0.000
−30.00
−60.00
−90.00

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).