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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	19SEP2011 04:08:59
Data source version	SCIA-OL/5.01-U
Processing scope for products	06SEP2011 00:00:00 to 07SEP2011 00:00:00
Start time of first product within scope	05SEP2011 22:42:03
Stop time of last product within scope	07SEP2011 00:44:16
Total number of level 2 products	16
Number of level 2 products with errors	0

2.1.2 Summary per product

The following table shows a summary for each product used in this report.

Products are linked to a corresponding server directory for view/download. Note: Link access may be restricted by security settings of your internet browser or firewall.

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__2PUDPA20110905_224203_000035303106_00188_49771_6391.N1	05SEP2011 22:42:03	05SEP2011 23:40:53	0	GOOD
1	SCI_OL__2PUDPA20110906_002217_000035163106_00189_49772_6410.N1	06SEP2011 00:22:17	06SEP2011 01:20:53	0	GOOD
2	SCI_OL__2PUDPA20110906_020232_000035303106_00190_49773_6401.N1	06SEP2011 02:02:32	06SEP2011 03:01:22	0	GOOD
3	SCI_OL__2PUDPA20110906_034246_000035163106_00191_49774_6434.N1	06SEP2011 03:42:46	06SEP2011 04:41:22	0	GOOD
4	SCI_OL__2PUDPA20110906_052301_000035303106_00192_49775_6436.N1	06SEP2011 05:23:01	06SEP2011 06:21:51	0	GOOD

5	SCI_OL__2PUDPA20110906_070315_000035163106_00193_49776_6441.N1	06SEP2011 07:03:15	06SEP2011 08:01:51	0	GOOD
6	SCI_OL__2PUDPA20110906_084330_000035303106_00194_49777_6442.N1	06SEP2011 08:43:30	06SEP2011 09:42:20	0	GOOD
7	SCI_OL__2PUDPA20110906_102344_000035163106_00195_49778_6443.N1	06SEP2011 10:23:44	06SEP2011 11:22:20	0	GOOD
8	SCI_OL__2PUDPA20110906_120358_000035303106_00196_49779_6444.N1	06SEP2011 12:03:58	06SEP2011 13:02:49	0	GOOD
9	SCI_OL__2PUDPA20110906_134413_000035163106_00197_49780_6432.N1	06SEP2011 13:44:13	06SEP2011 14:42:49	0	GOOD
10	SCI_OL__2PUDPA20110906_152427_000035303106_00198_49781_6433.N1	06SEP2011 15:24:27	06SEP2011 16:23:18	0	GOOD
11	SCI_OL__2PUDPA20110906_170442_000035163106_00199_49782_6429.N1	06SEP2011 17:04:42	06SEP2011 18:03:18	0	GOOD
12	SCI_OL__2PUDPA20110906_184548_000034643106_00200_49783_6430.N1	06SEP2011 18:45:48	06SEP2011 19:43:33	0	GOOD
13	SCI_OL__2PUDPA20110906_202524_000035163106_00201_49784_6427.N1	06SEP2011 20:25:24	06SEP2011 21:24:00	0	GOOD
14	SCI_OL__2PUDPA20110906_220525_000035303106_00202_49785_6418.N1	06SEP2011 22:05:25	06SEP2011 23:04:16	0	GOOD
15	SCI_OL__2PUDPA20110906_234540_000035163106_00203_49786_6419.N1	06SEP2011 23:45:40	07SEP2011 00:44:16	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: 164296

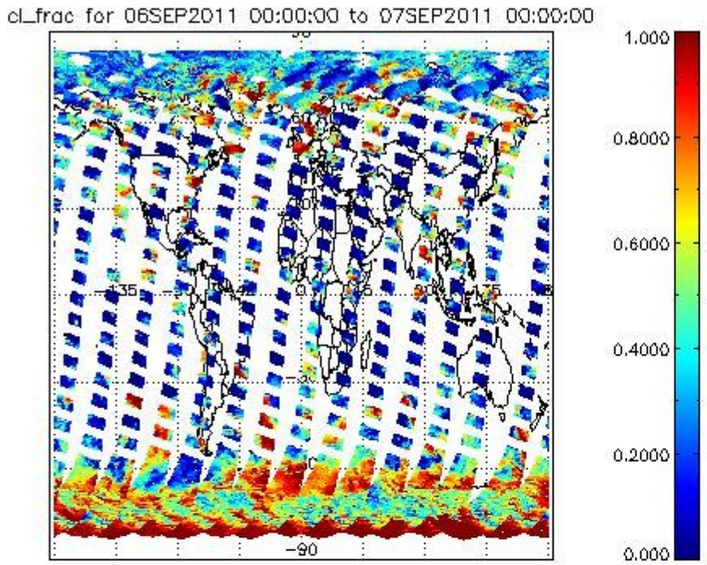
Total number of cloud data DSRs with good quality flag (=0): 164296 (100.0 %)

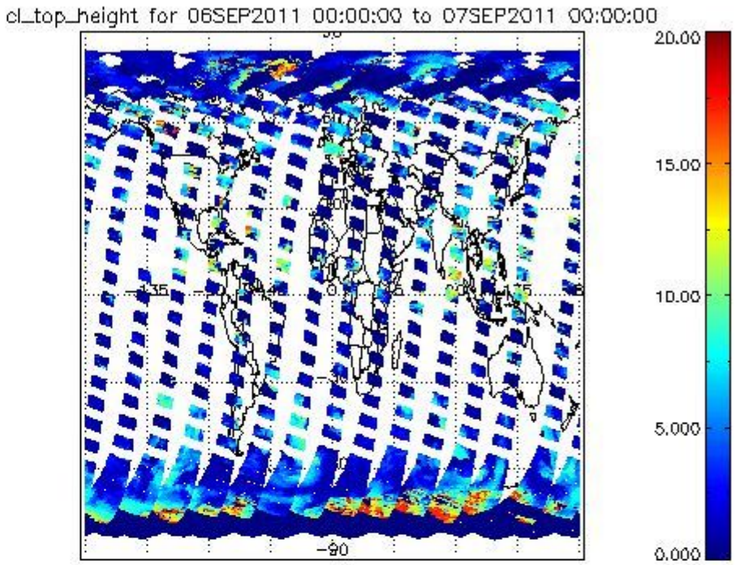
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	164296	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	164296	0.16476	0.12500	0.12500	0.25000	0.058217	s
CL_FRAC	164296	0.41931	0.38470	0.0000	1.0000	0.31995	
CL_FRAC_ERR	164296	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	164296	5.2723	4.0000	4.0000	8.0000	1.8629	
PMD_READ_CL[0]	164296	0.45562	0.0000	0.0000	8.0000	1.2619	-
PMD_READ_CL[1]	164296	1.3190	0.0000	0.0000	8.0000	2.6037	-
CL_TOP_HEIGHT	130280	3.5683	2.1189	0.0000	17.000	3.6990	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	130280	66.626	100.00	0.0000	101.00	41.871	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	164296	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	164296	11001100	11000100	11000000	11100000	3527.7	
AERO_ABSO_IND	164296	0.20636	0.0000	0.0000	7.4606	0.49225	
AERO_IND_DIAG	164296	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	164296	01010010	00000000	00000000	11000000	24314.	

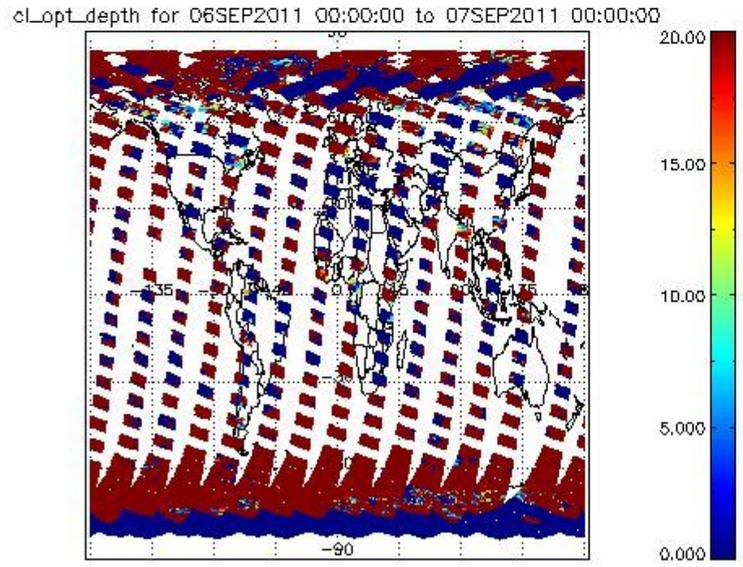
Time and geolocation plots:

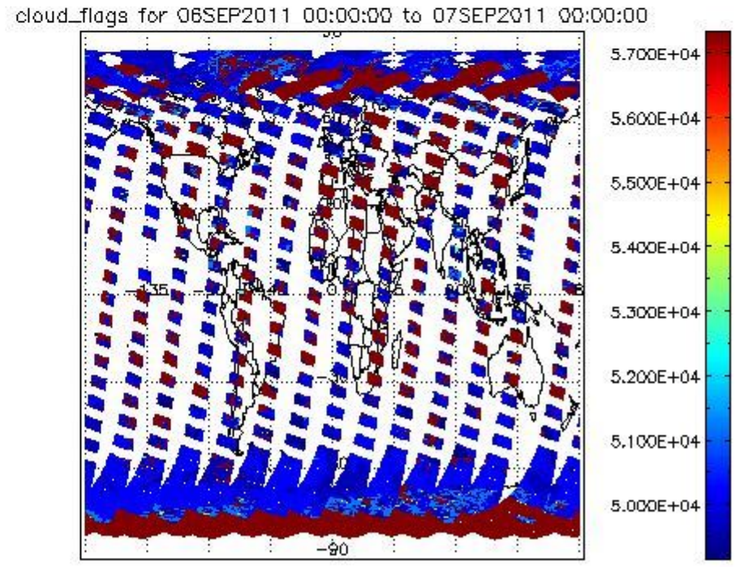
Plots are available for the following parameters:

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.

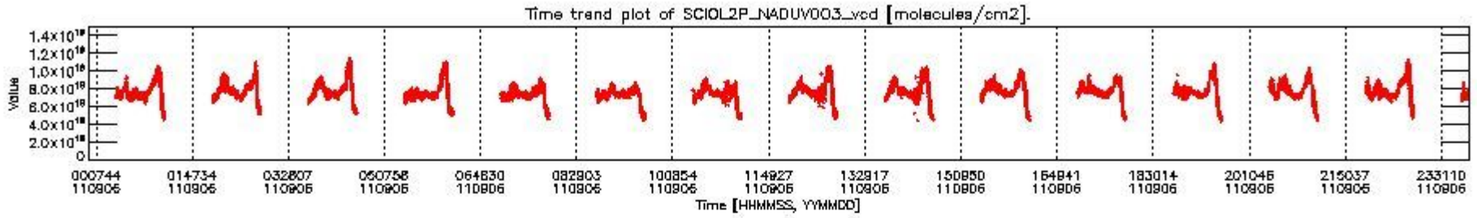
The following data items are currently included into this section:

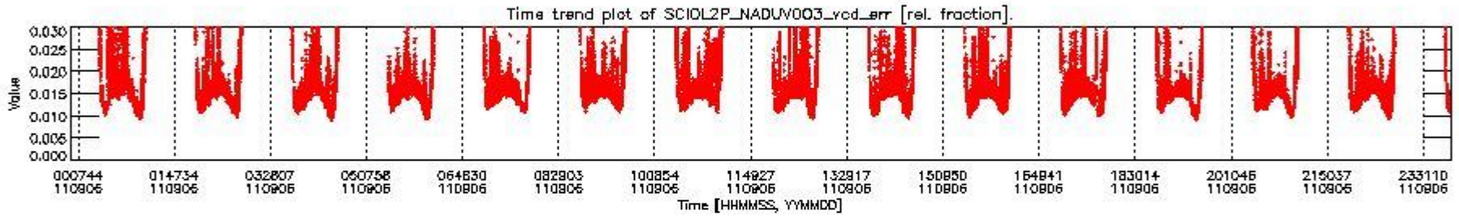
Number	Data item ID
0	SCIOL2P_NADUV0O3_vcd
1	SCIOL2P_NADUV0O3_vcd_err
2	SCIOL2P_NADUV0O3_amf_gr

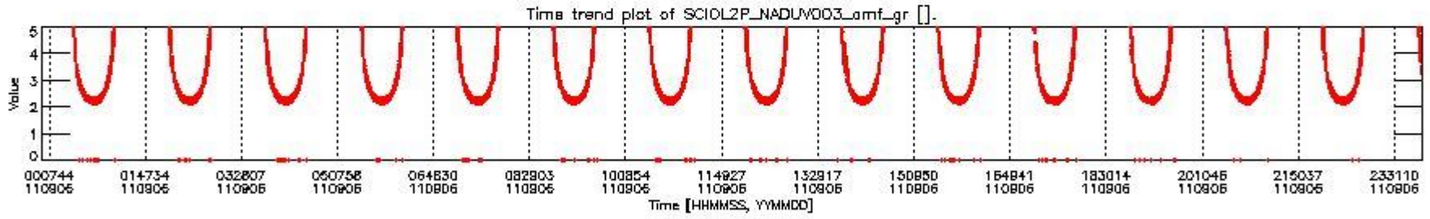
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

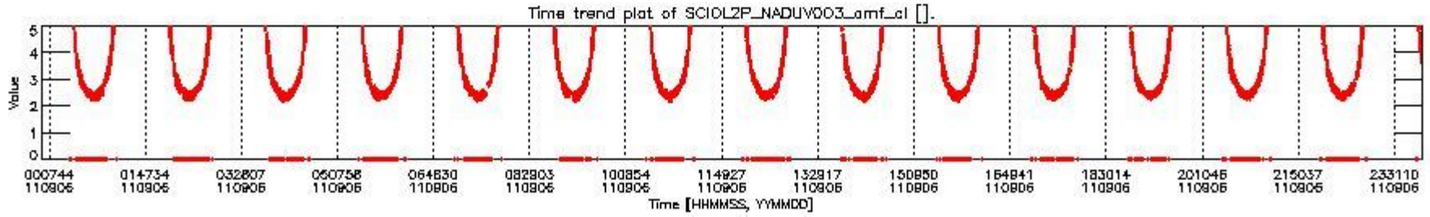
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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

2.2.2.1 O3 (UV0)

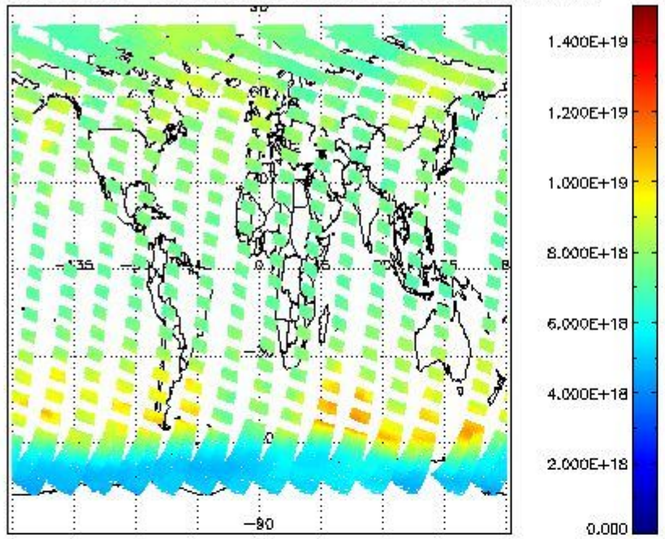

Time trend plot of SCIOL2P_NADUV003_vcd [molecules/cm2].
Value
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV003_vcd_err [rel. fraction].
Value
Time [HHMMSS, YYMMDD]

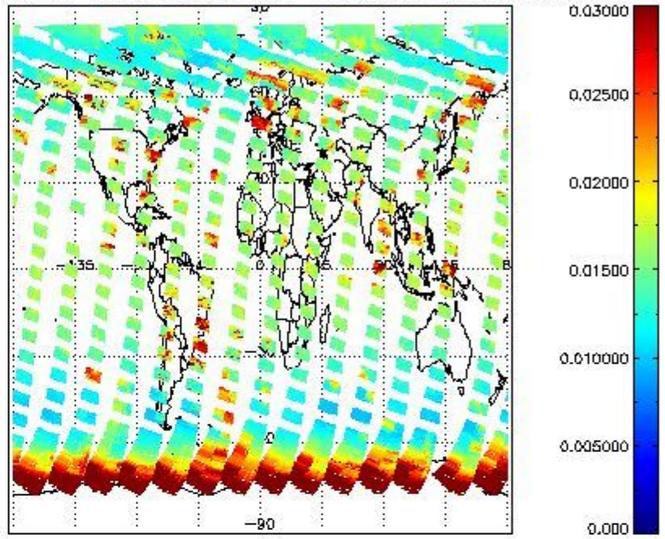

Time trend plot of SCIOL2P_NADUV003_amf_gr [].
Value
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV003_amf_cl [].
Value
Time [HHMMSS, YYMMDD]

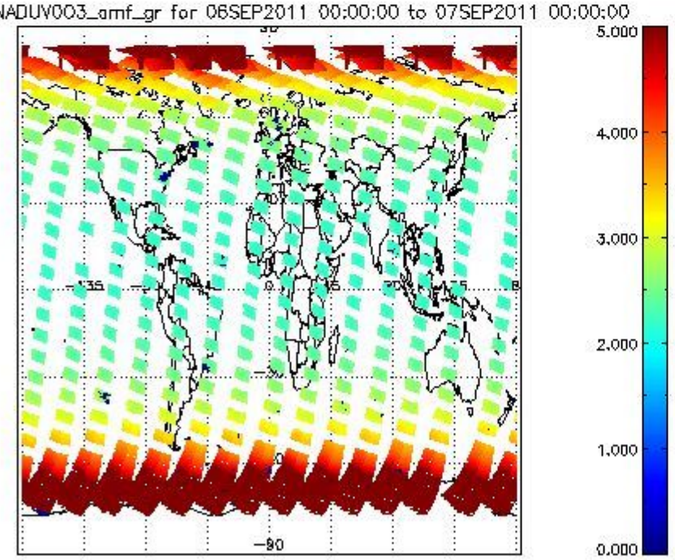
SCIOL2P_NADUV003_vcd for 06SEP2011 00:00:00 to 07SEP2011 00:00:00



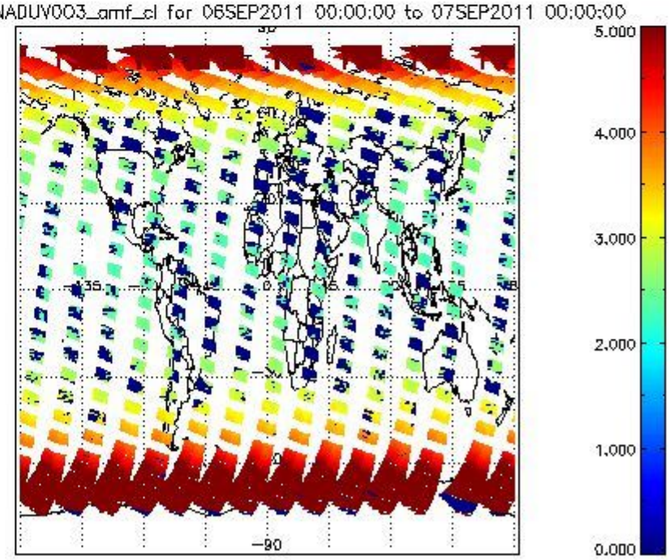
SCIOL2P_NADUV003_vcd_err for 06SEP2011 00:00:00 to 07SEP2011 00:00:00



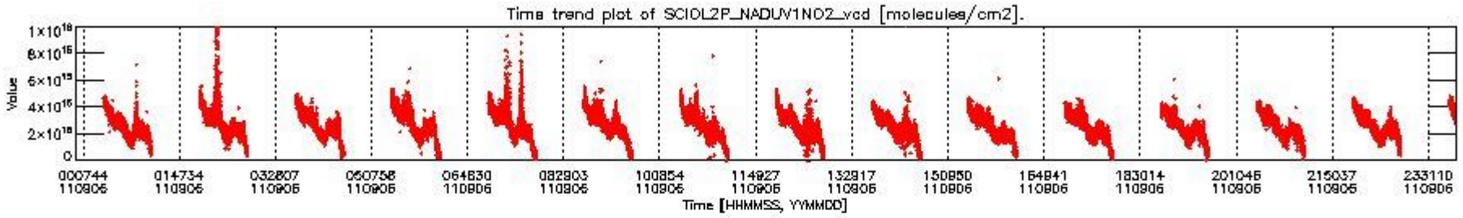
SCIOL2P_NADUV003_amf_gr for 06SEP2011 00:00:00 to 07SEP2011 00:00:00

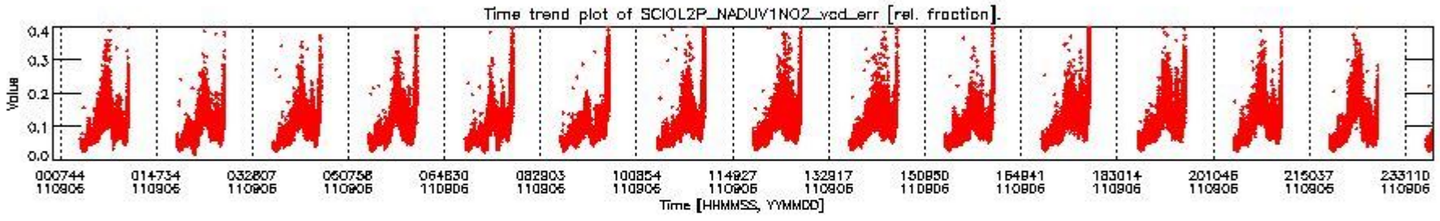


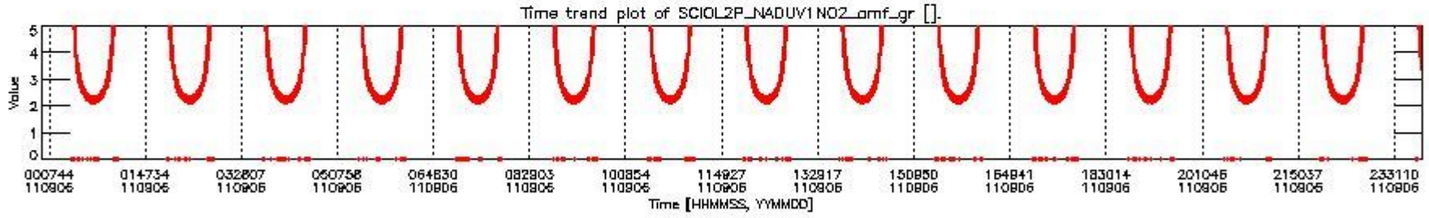
SCIOL2P_NADUV003_amf_cl for 06SEP2011 00:00:00 to 07SEP2011 00:00:00

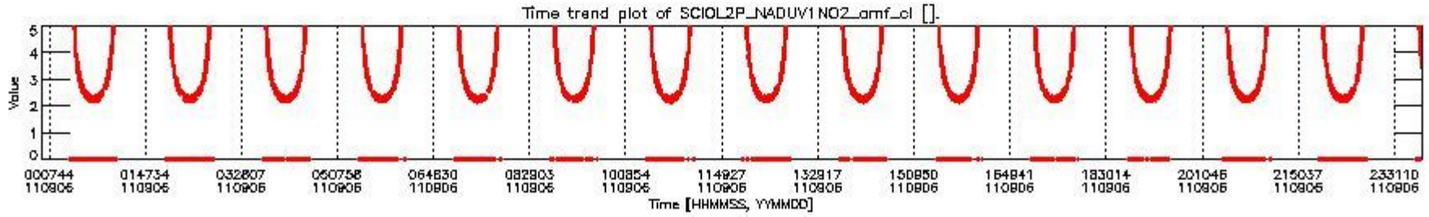


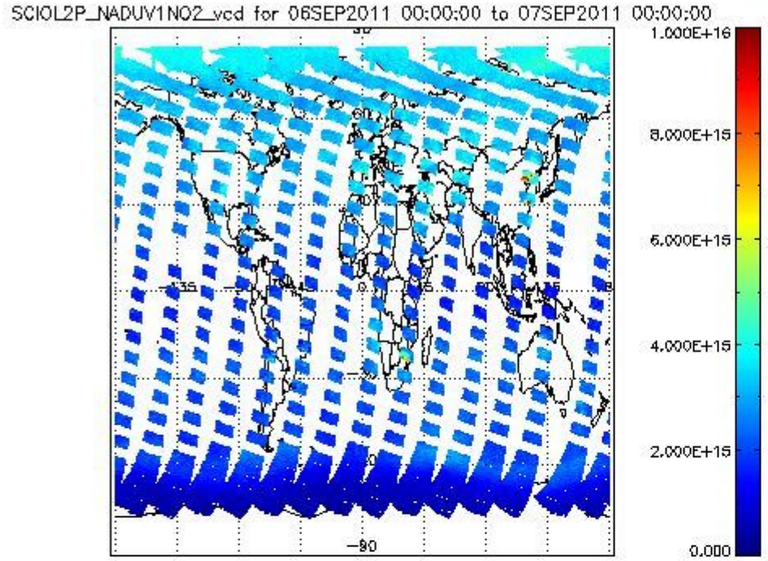
2.2.2.2 NO2 (UV1)

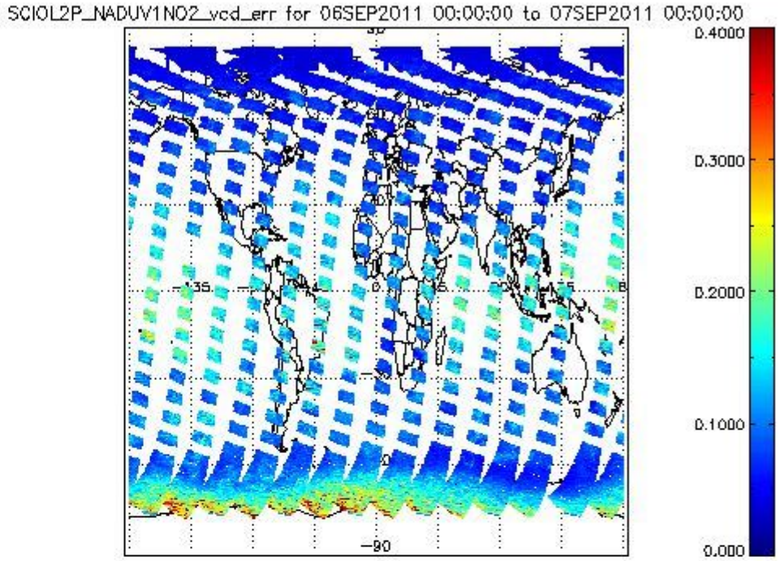

Time trend plot of SCIOL2P_NADUV1NO2_vcd [molecules/cm2].
Value
Time [HHMMSS, YYMMDD]

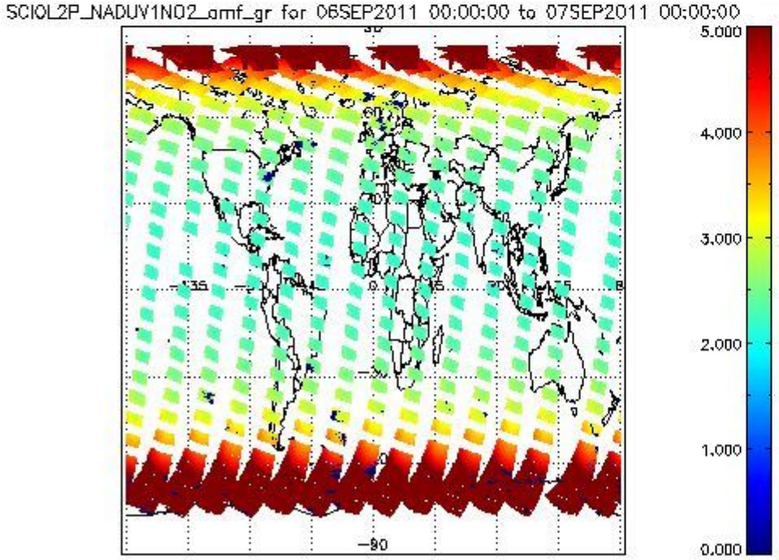

Time trend plot of SCIOL2P_NADUV1NO2_vcd_err [rel. fraction].
Value
Time [HHMMSS, YYMMDD]

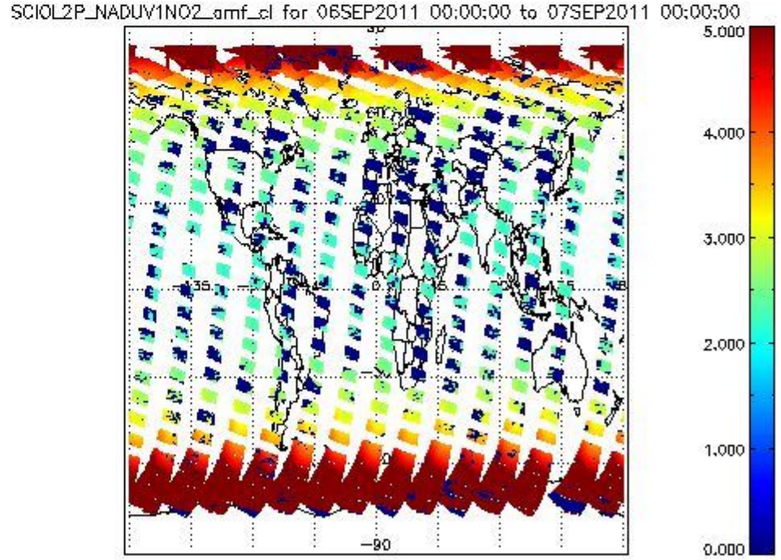

Time trend plot of SCIOL2P_NADUV1NO2_amf_gr [].
Value
Time [HHMMSS, YYMMDD]


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

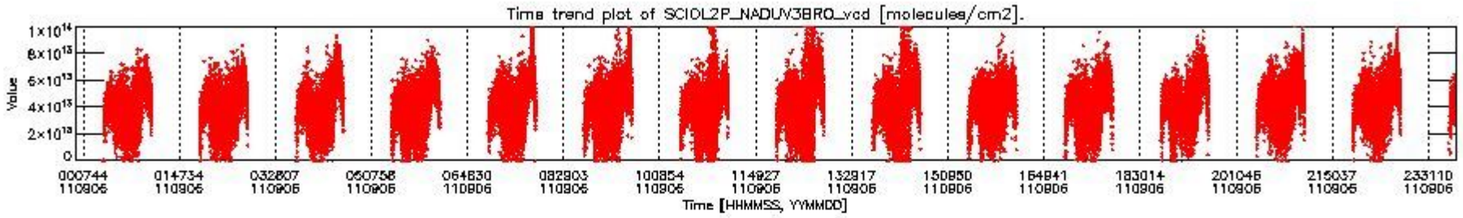

SCIOL2P_NADUV1NO2_vcd for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
1.000E+16
8.000E+15
6.000E+15
4.000E+15
2.000E+15
0.000
−90

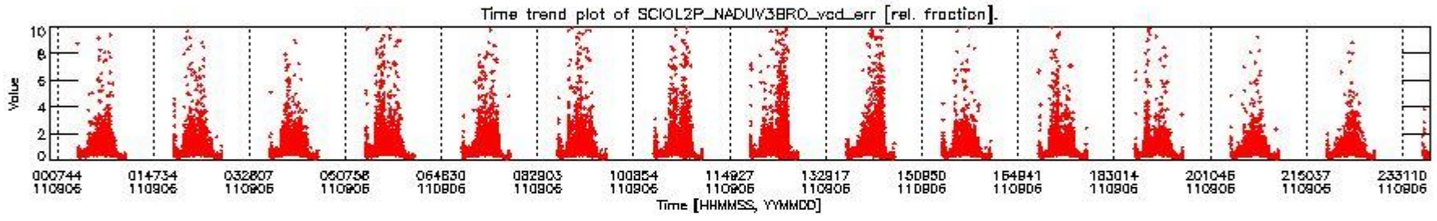

SCIOL2P_NADUV1NO2_vcd_err for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
0.4000
0.3000
0.2000
0.1000
0.000
−90

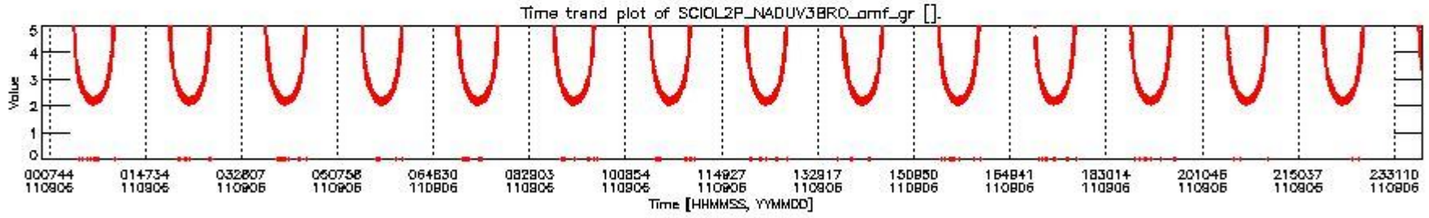

SCIOL2P_NADUV1NO2_amf_gr for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
−90

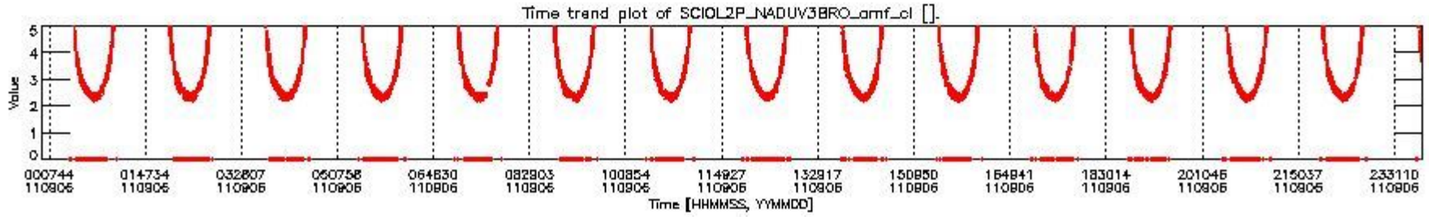

SCIOL2P_NADUV1NO2_amf_cl for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
−90

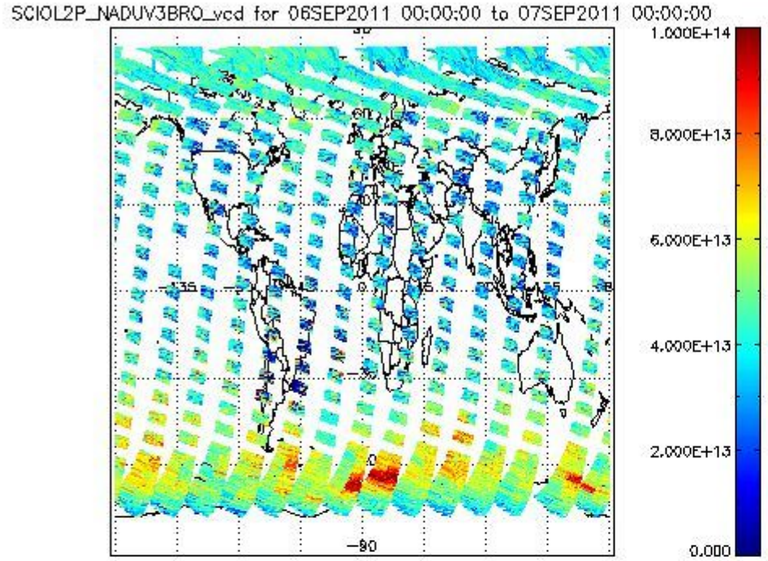
2.2.2.3 BrO (UV3)

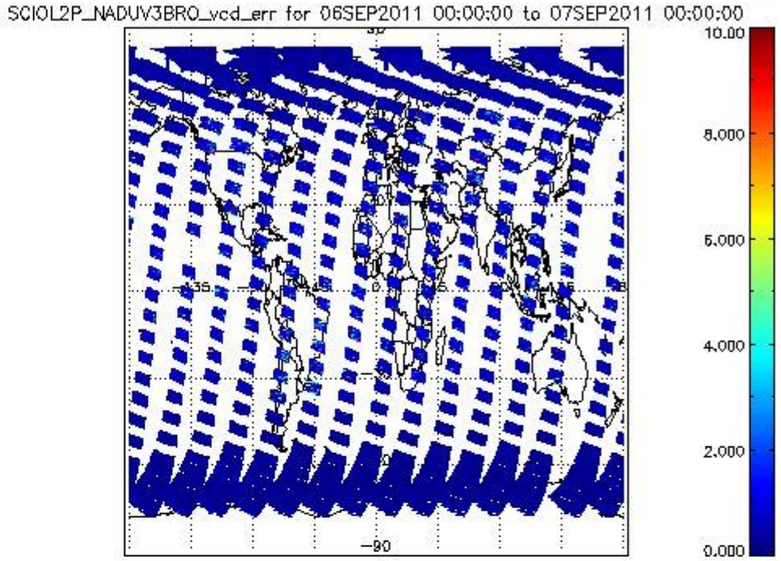

Time trend plot of SCIOL2P_NADUV3BRO_vcd [molecules/cm2].
Value
Time [HHMMSS, YYMMDD]

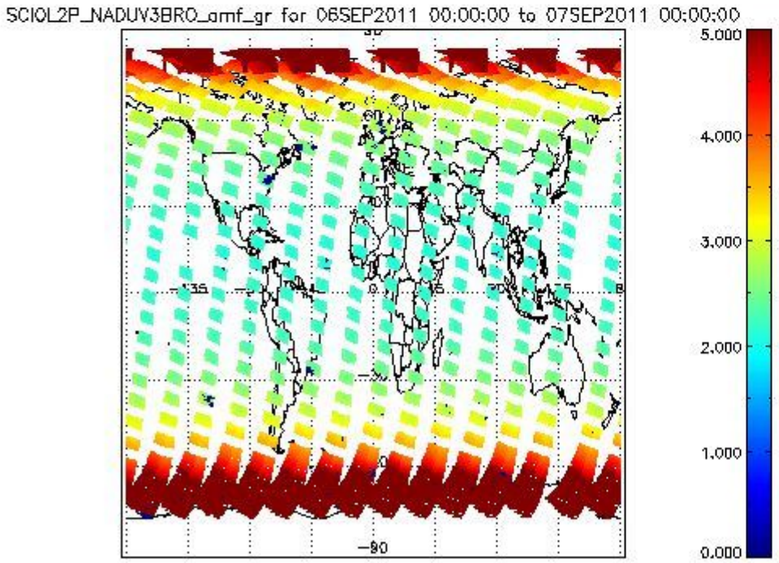

Time trend plot of SCIOL2P_NADUV3BRO_vcd_err [rel. fraction].
Value
Time [HHMMSS, YYMMDD]

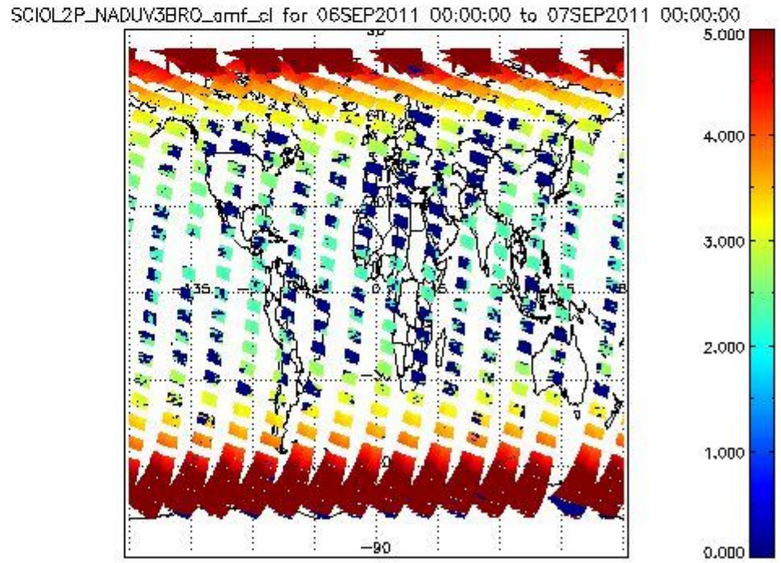

Time trend plot of SCIOL2P_NADUV3BRO_amf_gr [].
Value
Time [HHMMSS, YYMMDD]


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

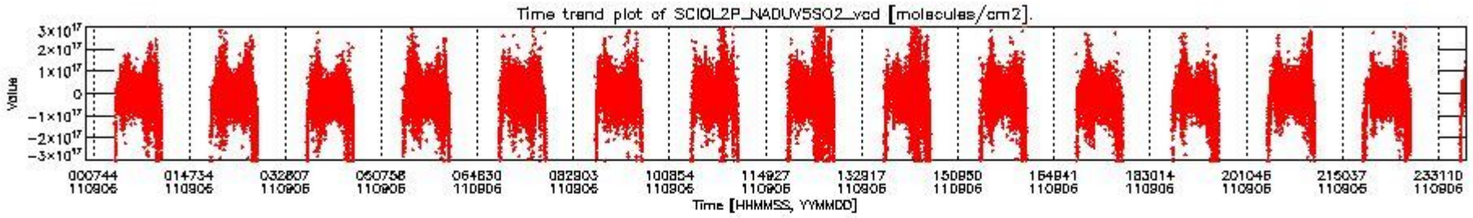

SCIOL2P_NADUV3BRO_vcd for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
1.000E+14
8.000E+13
6.000E+13
4.000E+13
2.000E+13
0.000
-90

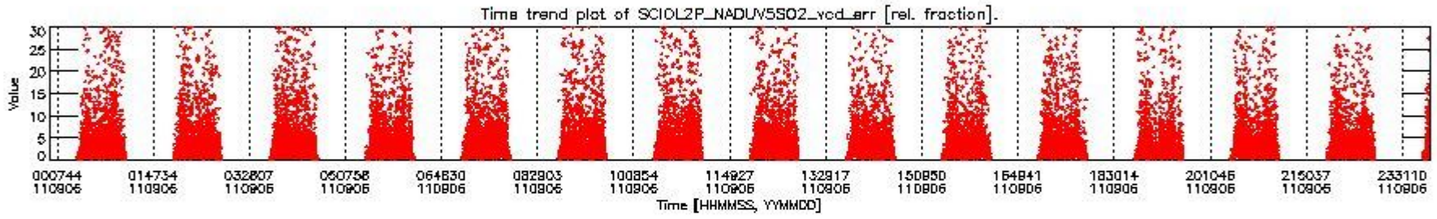

SCIOL2P_NADUV3BRO_vcd_err for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
10.00
8.000
6.000
4.000
2.000
0.000
-90

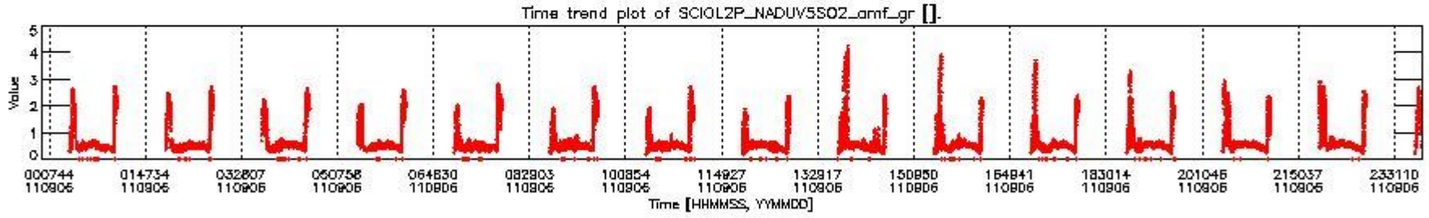

SCIOL2P_NADUV3BRO_amf_gr for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90

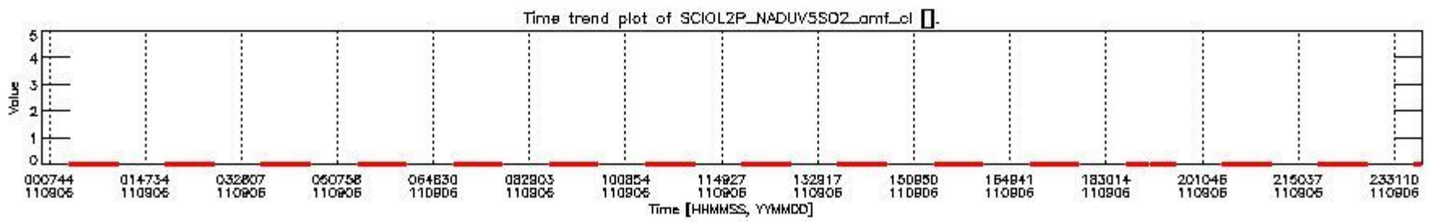

SCIOL2P_NADUV3BRO_amf_cl for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90

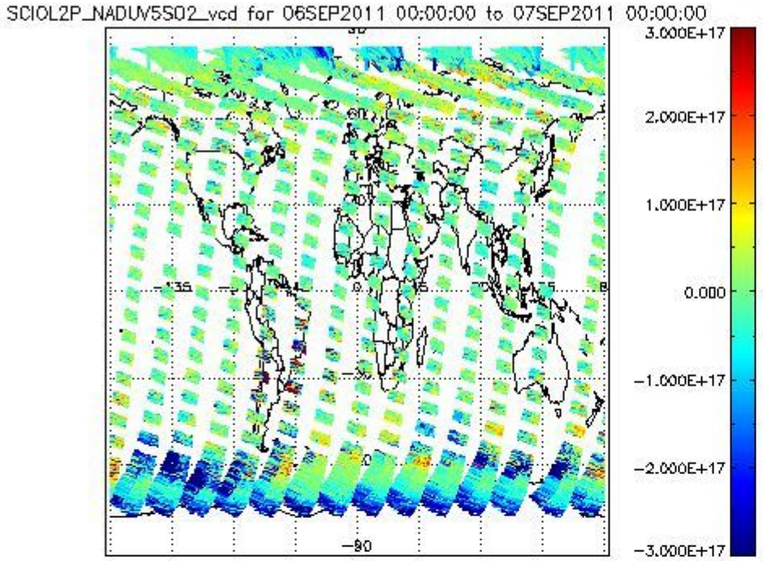
2.2.2.4 SO2 (UV5)

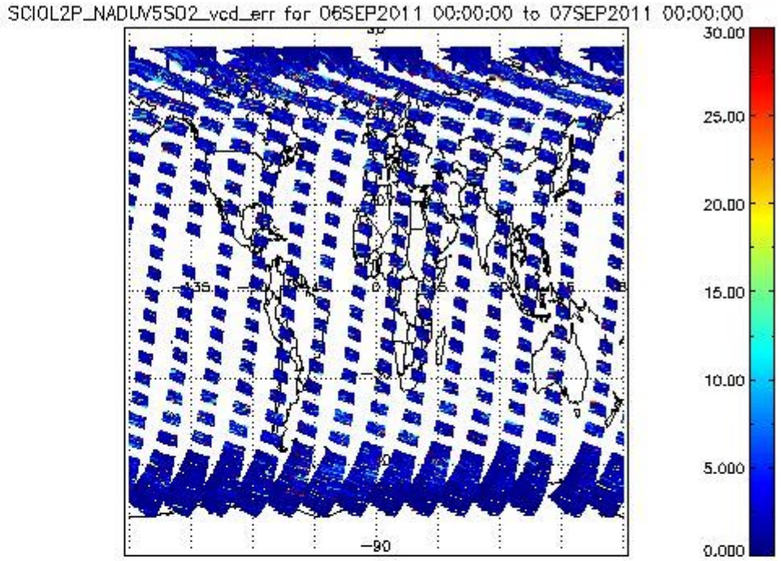

Time trend plot of SCIOL2P_NADUV5SO2_vcd [molecules/cm2].
Value
3x10^17
2x10^17
1x10^17
0
-1x10^17
-2x10^17
-3x10^17
000744 110906
014734 110906
032807 110906
050758 110906
064830 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

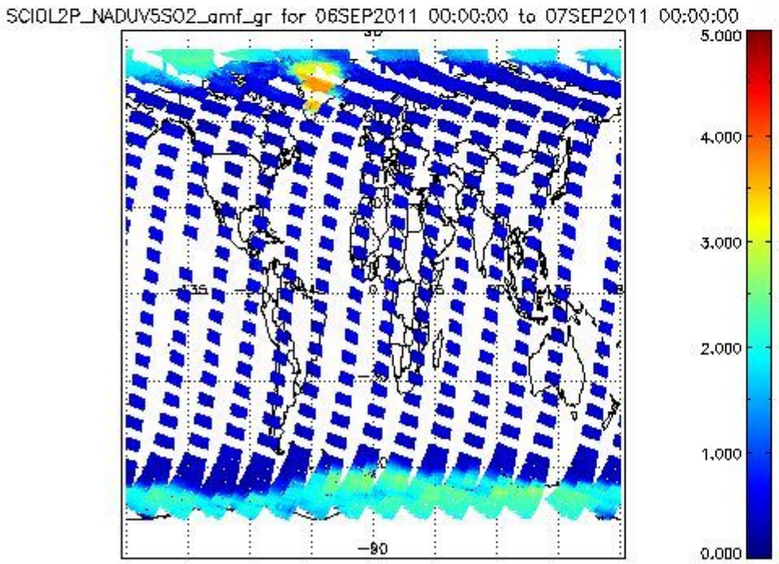

Time trend plot of SCIOL2P_NADUV5SO2_vcd_err [rel. fraction].
Value
30
25
20
15
10
5
0
000744 110906
014734 110906
032807 110906
050758 110906
064830 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

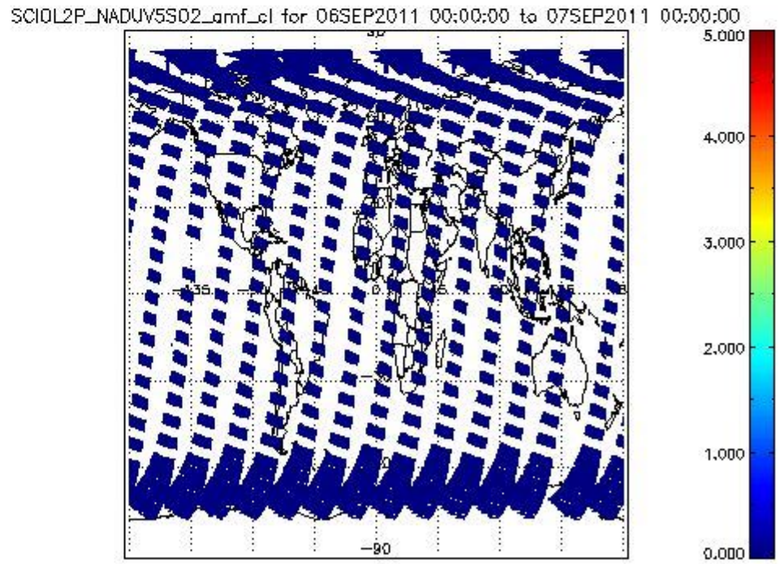

Time trend plot of SCIOL2P_NADUV5SO2_amf_gr [].
Value
5
4
3
2
1
0
000744 110906
014734 110906
032807 110906
050758 110906
064830 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV5SO2_amf_cl [].
Value
5
4
3
2
1
0
000744 110906
014734 110906
032807 110906
050758 110906
064830 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

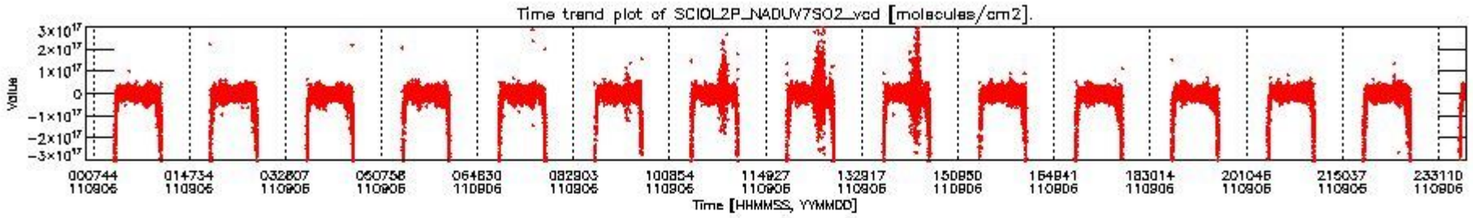

SCIOL2P_NADUV5SO2_vcd for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
3.000E+17
2.000E+17
1.000E+17
0.000
-1.000E+17
-2.000E+17
-3.000E+17
-90

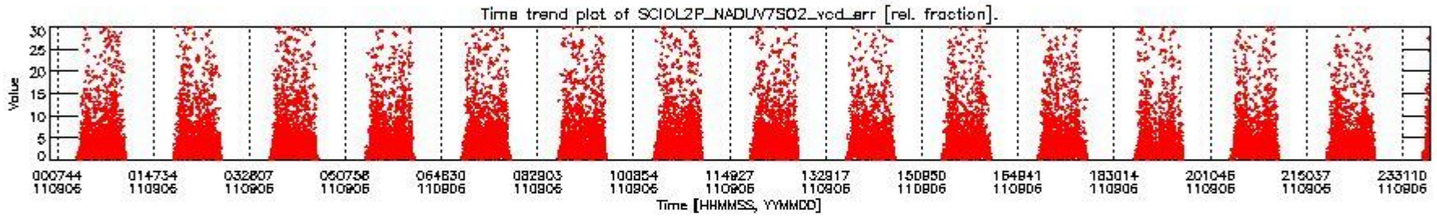

SCIOL2P_NADUV5SO2_vcd_err for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
-90

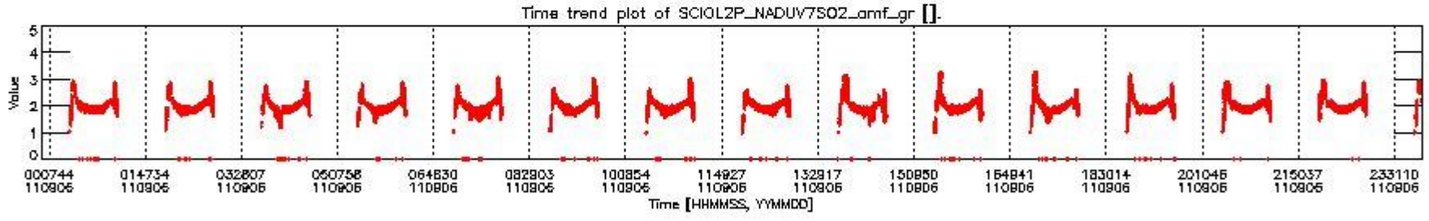

SCIOL2P_NADUV5SO2_amf_gr for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90

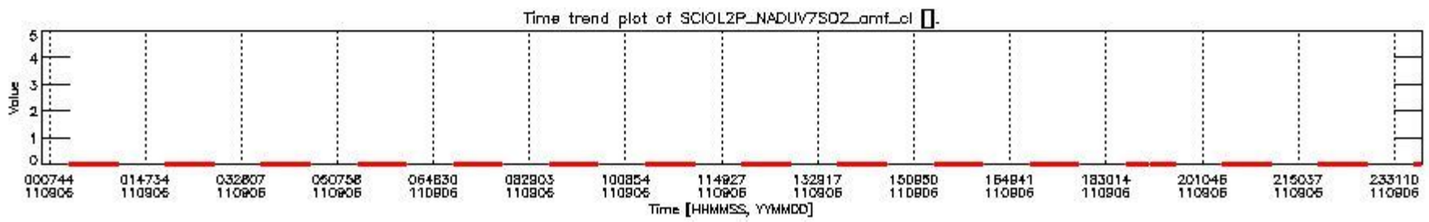

SCIOL2P_NADUV5SO2_amf_cl for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90

2.2.2.5 SO2 (UV7)

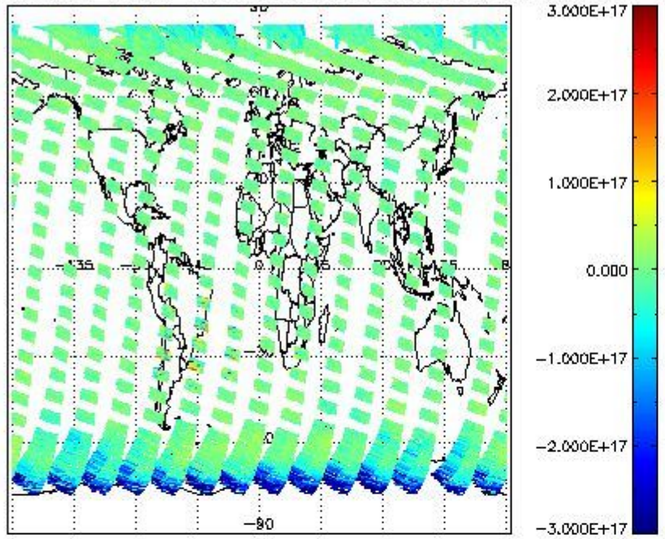

Time trend plot of SCIOL2P_NADUV7SO2_vcd [molecules/cm2].
Value
3x10^17
2x10^17
1x10^17
0
-1x10^17
-2x10^17
-3x10^17
000744 110906
014734 110906
032807 110906
050758 110906
064830 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV7SO2_vcd_err [rel. fraction].
Value
30
25
20
15
10
5
0
000744 110906
014734 110906
032807 110906
050758 110906
064830 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

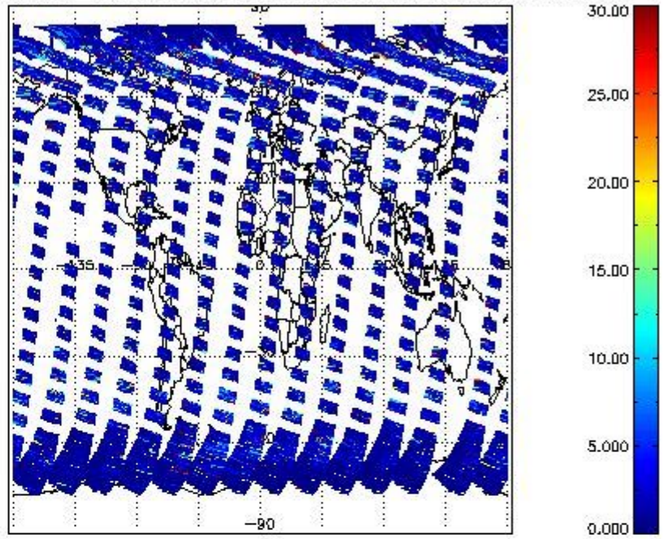

Time trend plot of SCIOL2P_NADUV7SO2_amf_gr [].
Value
5
4
3
2
1
0
000744 110906
014734 110906
032807 110906
050758 110906
064830 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV7SO2_amf_cl [].
Value
5
4
3
2
1
0
000744 110906
014734 110906
032807 110906
050758 110906
064830 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

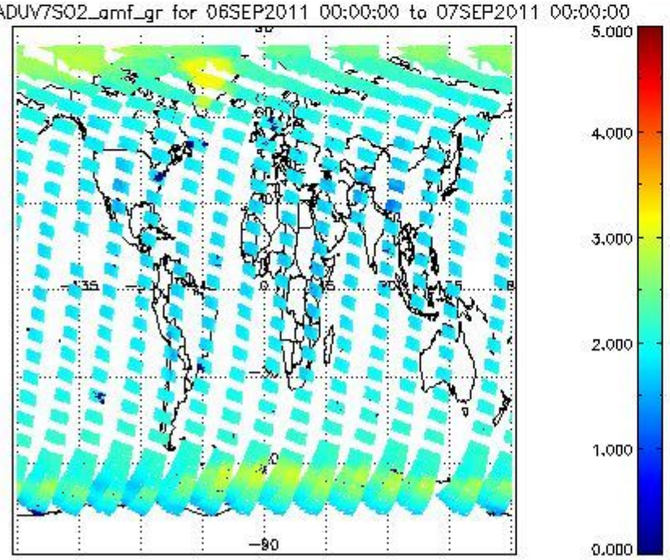
SCIOL2P_NADUV7SO2_vcd for 06SEP2011 00:00:00 to 07SEP2011 00:00:00



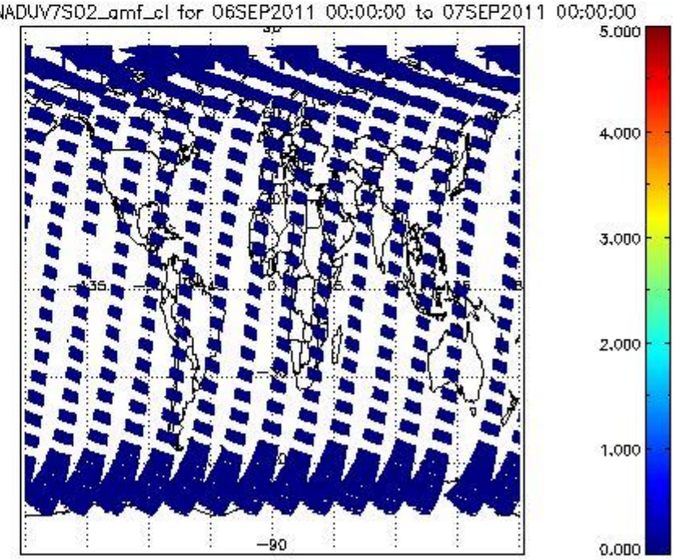
SCIOL2P_NADUV7SO2_vcd_err for 06SEP2011 00:00:00 to 07SEP2011 00:00:00



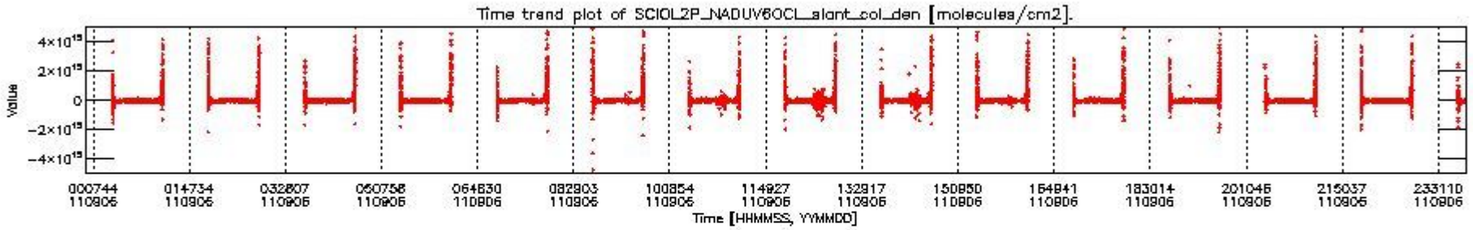
SCIOL2P_NADUV7SO2_amf_gr for 06SEP2011 00:00:00 to 07SEP2011 00:00:00

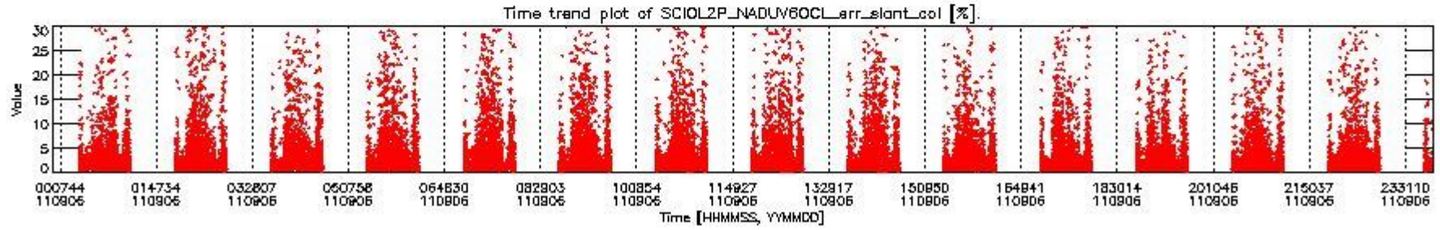


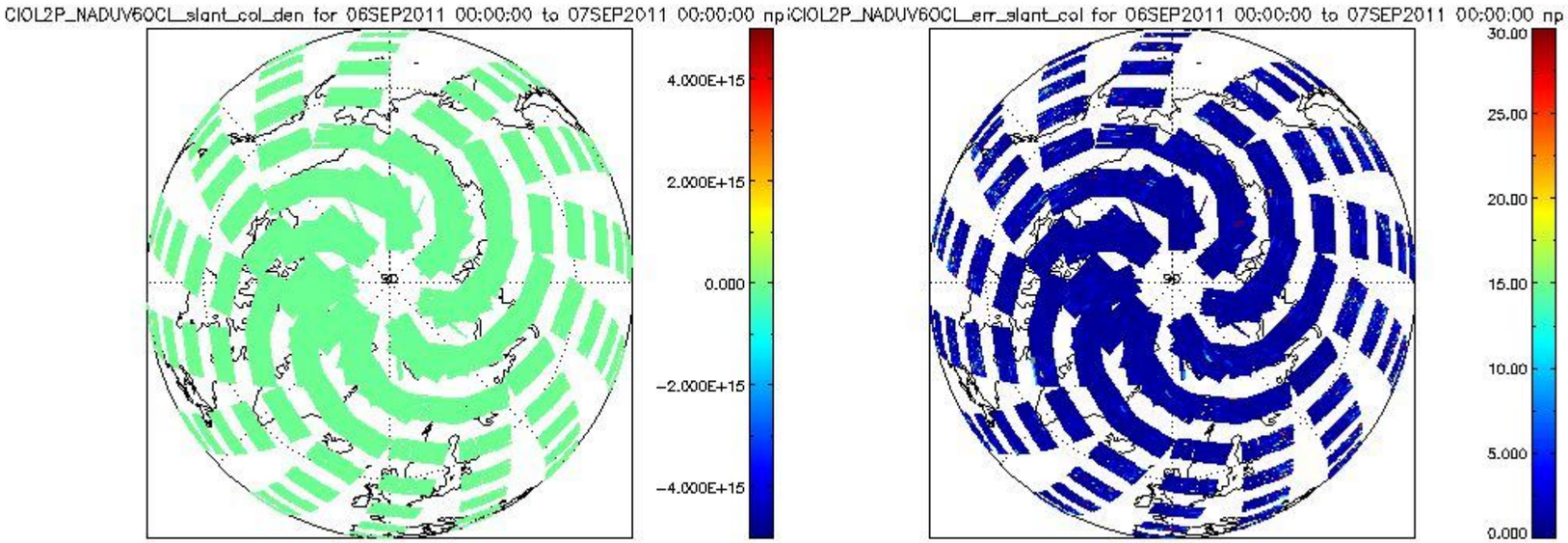
SCIOL2P_NADUV7SO2_amf_cl for 06SEP2011 00:00:00 to 07SEP2011 00:00:00

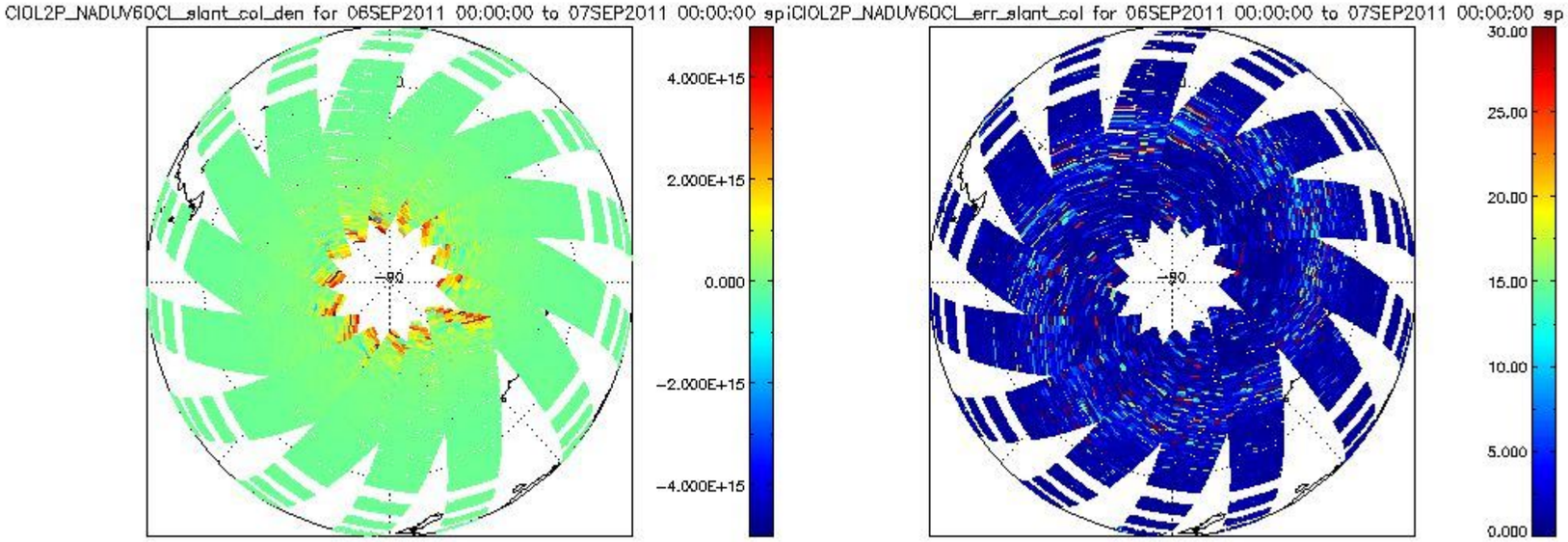


2.2.2.6 OClO (UV6)

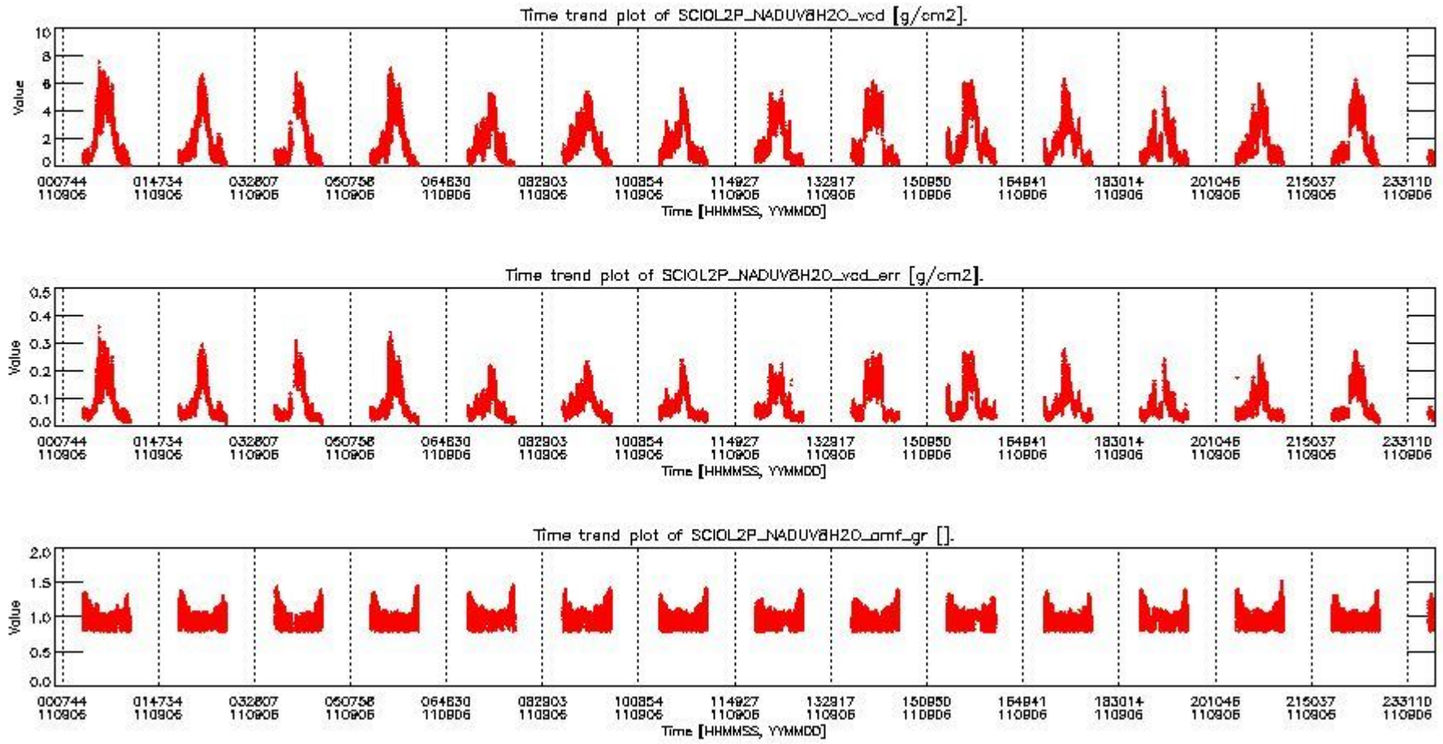

Time trend plot of SCIOL2P_NADUV6OCL_slant_col_den [molecules/cm2].
Value
4×10^15
2×10^15
0
−2×10^15
−4×10^15
000744 110906
014734 110906
032807 110906
050758 110906
064630 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV6OCL_err_slant_col [%].
Value
30
25
20
15
10
5
0
000744 110906
014734 110906
032807 110906
050758 110906
064630 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

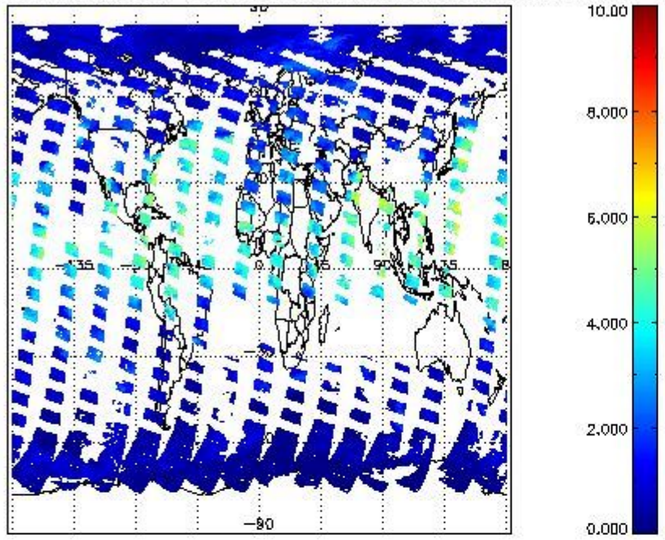

CIOL2P_NADUV6OCL_slant_col_den for 06SEP2011 00:00:00 to 07SEP2011 00:00:00 np
4.000E+15
2.000E+15
0.000
−2.000E+15
−4.000E+15
90
CIOL2P_NADUV6OCL_err_slant_col for 06SEP2011 00:00:00 to 07SEP2011 00:00:00 np
30.00
25.00
20.00
15.00
10.00
5.000
0.000
90


CIOL2P_NADUV6OCL_slant_col_den for 06SEP2011 00:00:00 to 07SEP2011 00:00:00 spiCIOL2P_NADUV6OCL_err_slant_col for 06SEP2011 00:00:00 to 07SEP2011 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

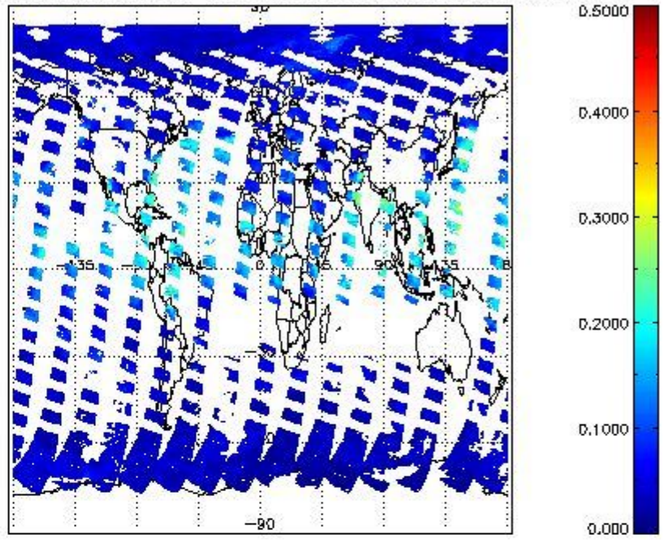
2.2.2.7 H2O (UV8)


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]

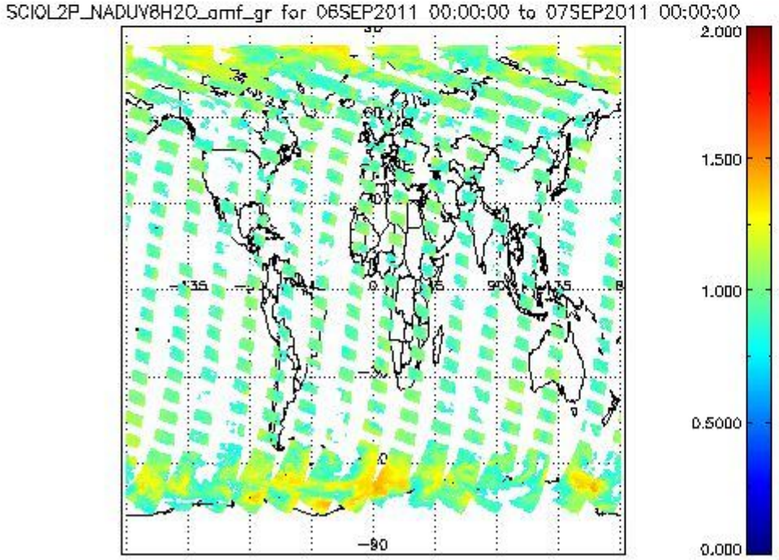
SCIOL2P_NADUV8H2O_vcd for 06SEP2011 00:00:00 to 07SEP2011 00:00:00



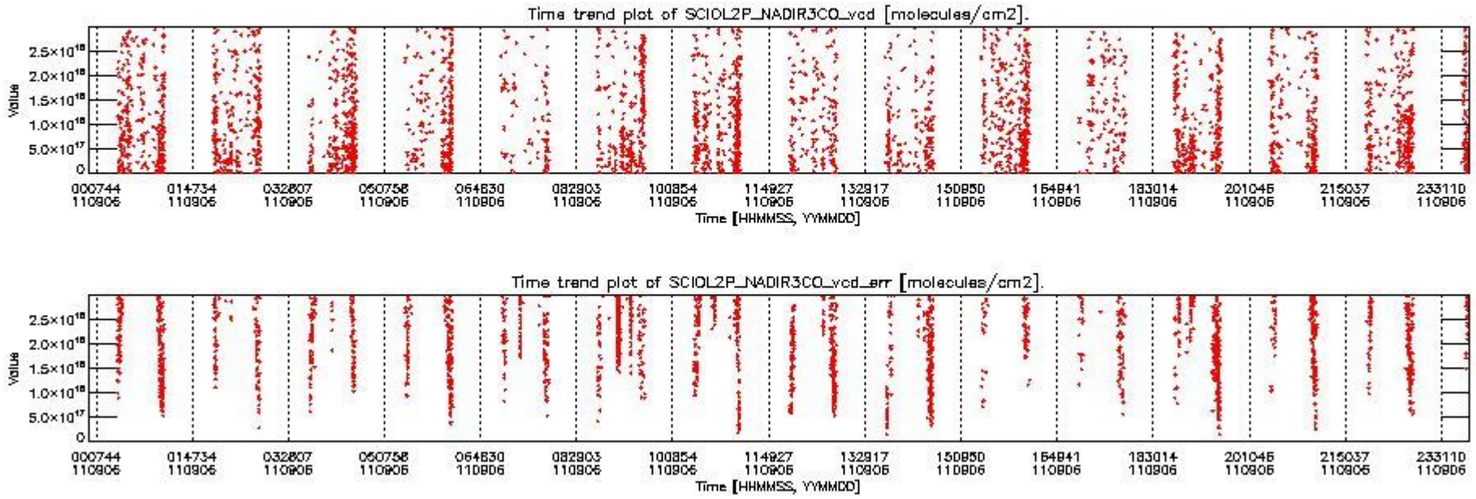
SCIOL2P_NADUV8H2O_vcd_err for 06SEP2011 00:00:00 to 07SEP2011 00:00:00

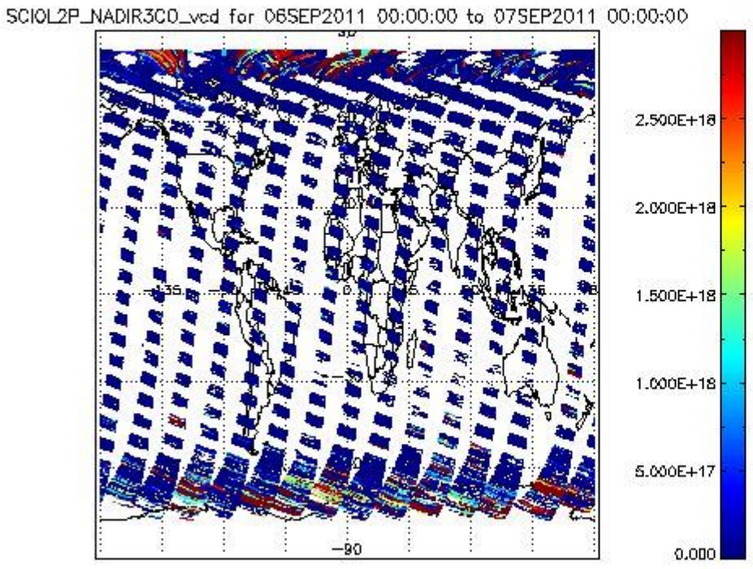


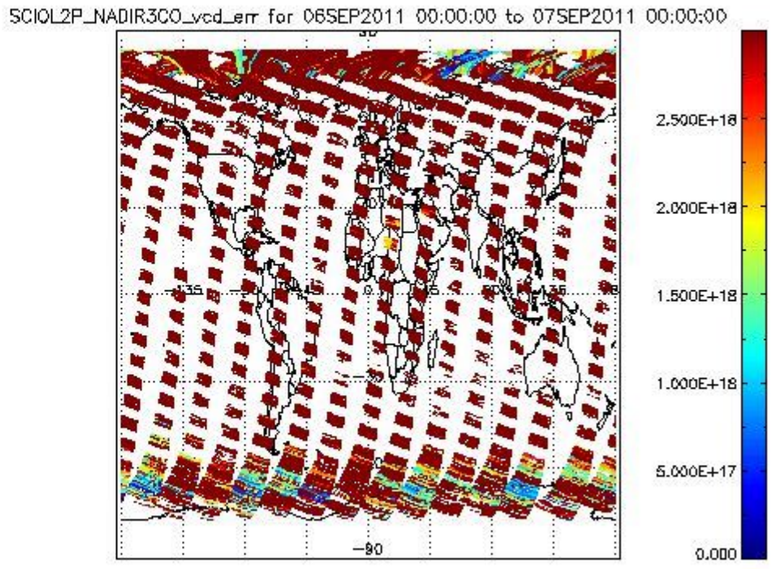
SCIOL2P_NADUV8H2O_amf_gr for 06SEP2011 00:00:00 to 07SEP2011 00:00:00



2.2.2.8 CO (IR3)







2.2.3 Limb

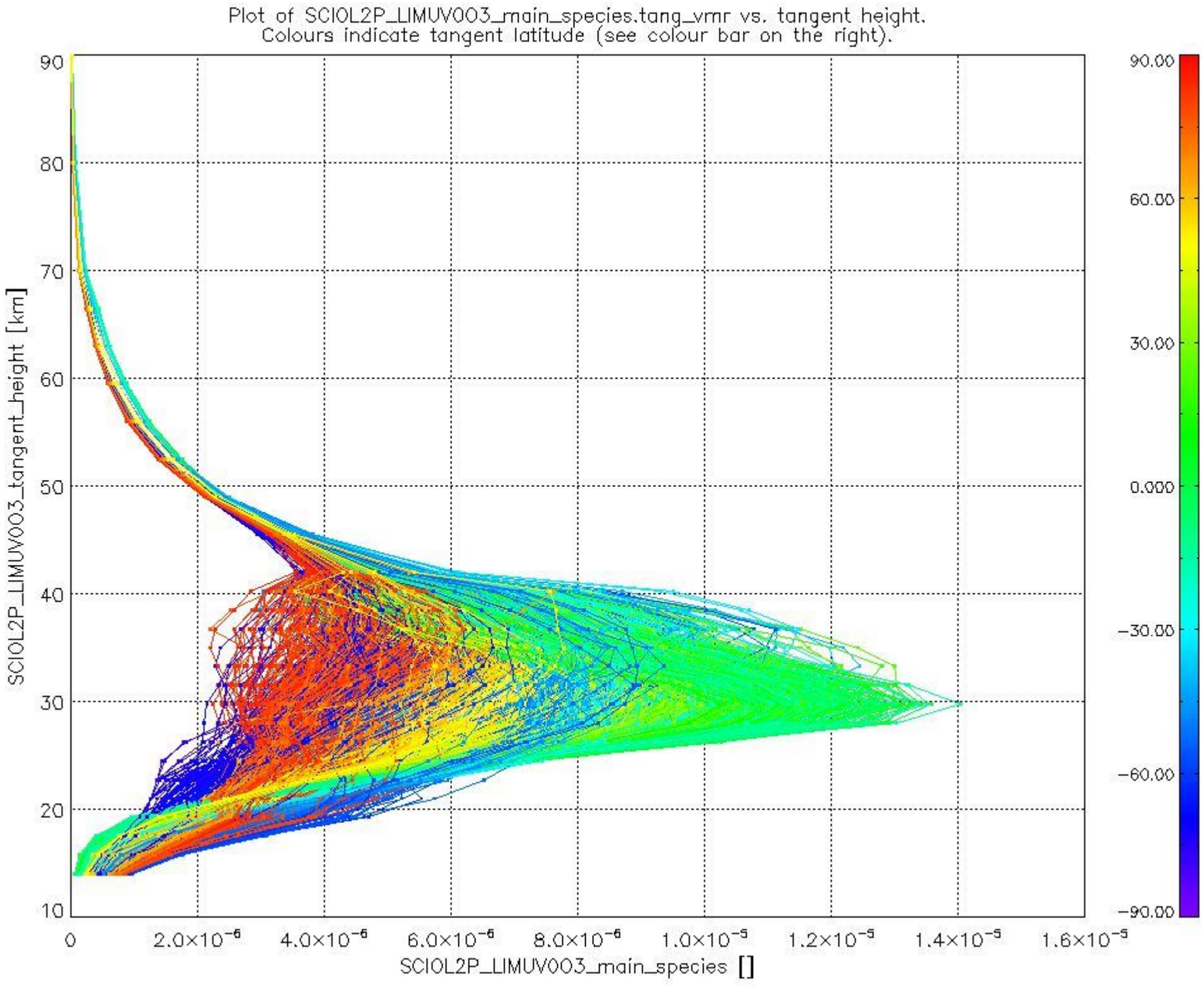
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

The following data items are currently included into this section:

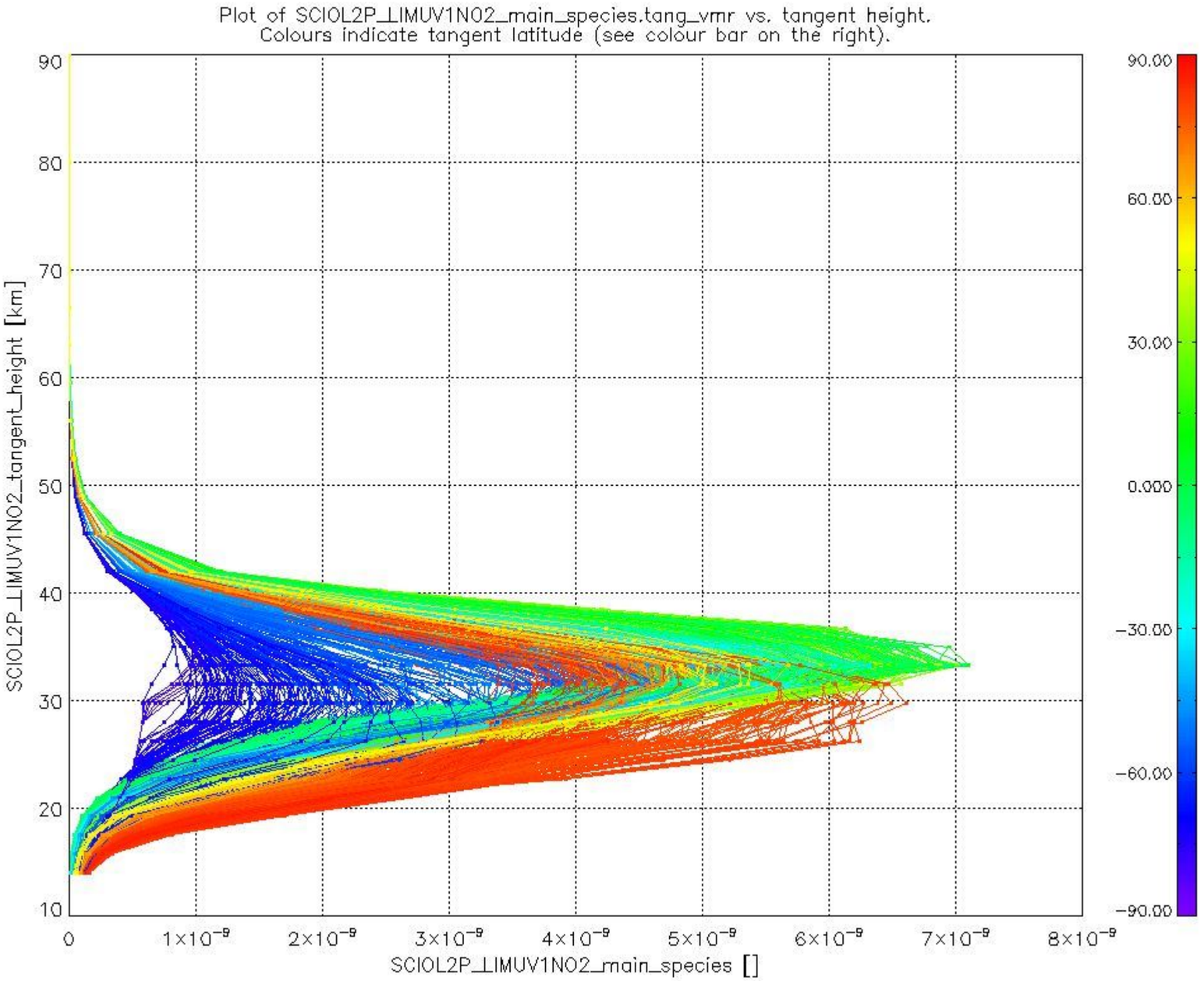
Number	Data item ID
0	SCIOL2P_LIMUV0O3_main_species
1	SCIOL2P_LIMUV1NO2_main_species
2	SCIOL2P_LIMUV3BRO_main_species

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

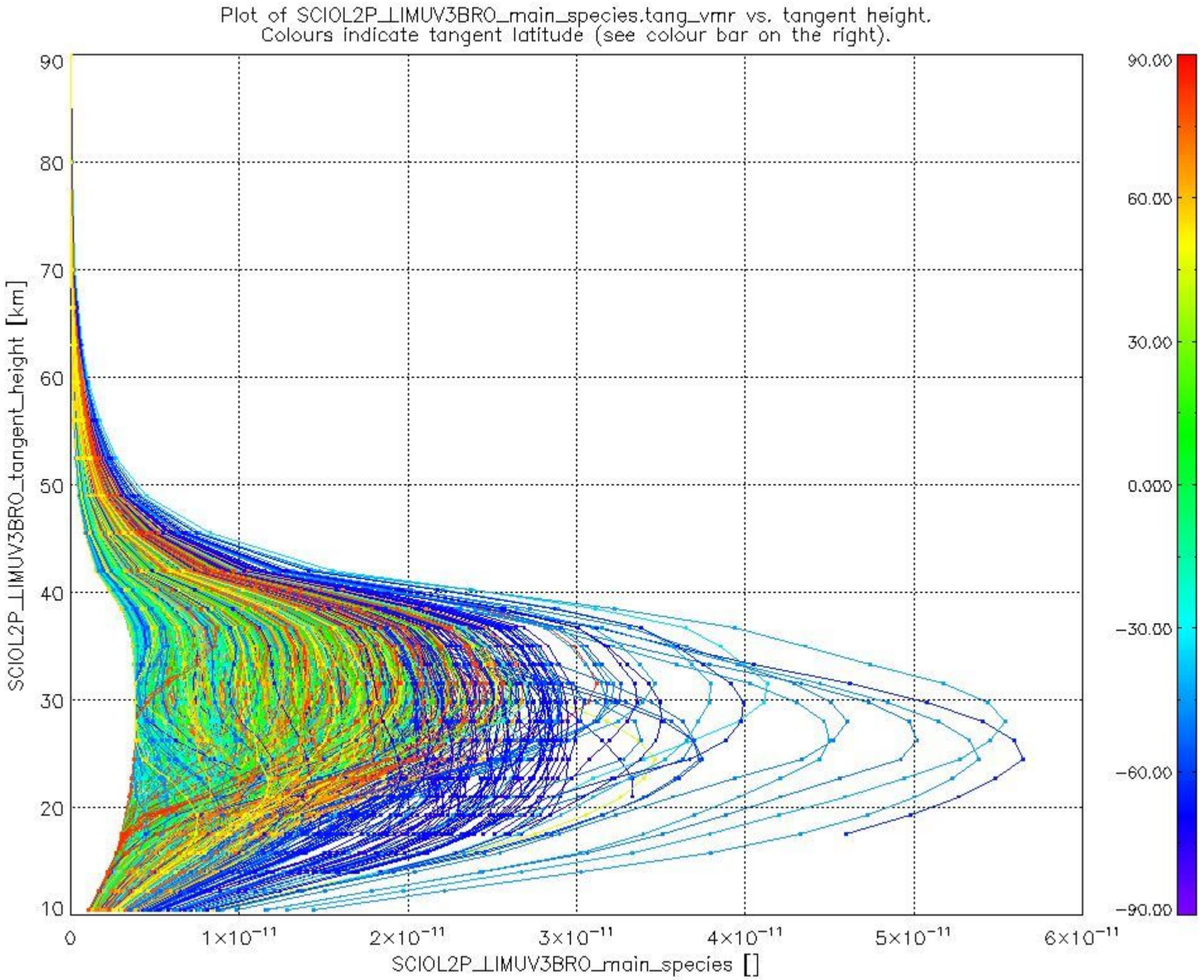
2.2.3.1 O3 (UV0)



2.2.3.2 NO2 (UV1)

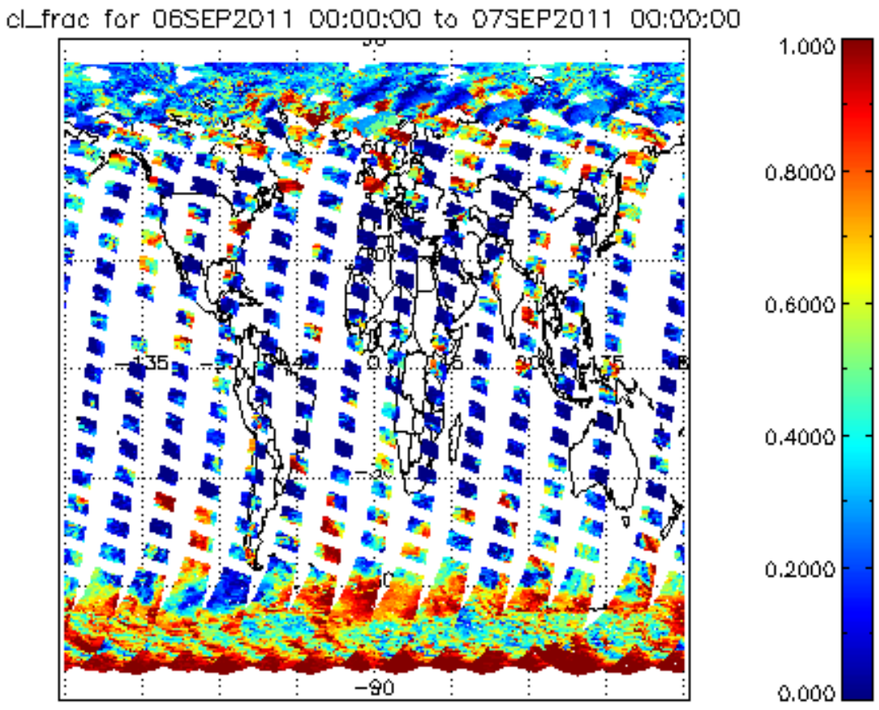

Plot of SCIOL2P_LIMUV1NO2_main_species.tang_vmr vs. tangent height.
Colours indicate tangent latitude (see colour bar on the right).
SCIOL2P_LIMUV1NO2_tangent_height [km]
90
80
70
60
50
40
30
20
10
0
1×10⁻⁹
2×10⁻⁹
3×10⁻⁹
4×10⁻⁹
5×10⁻⁹
6×10⁻⁹
7×10⁻⁹
8×10⁻⁹
SCIOL2P_LIMUV1NO2_main_species []
90.00
60.00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

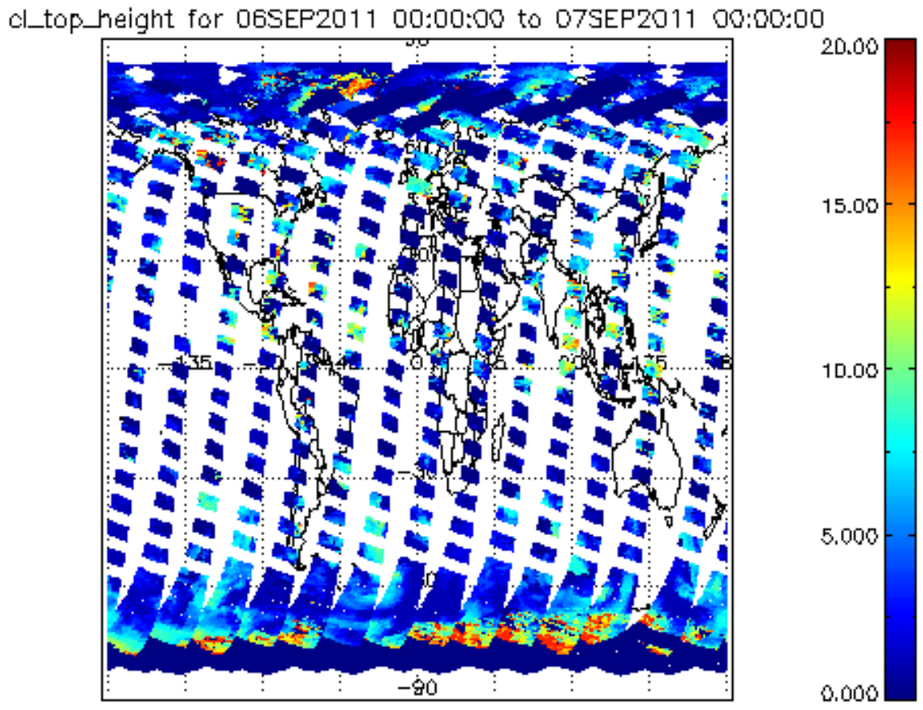
2.2.3.3 BrO (UV3)

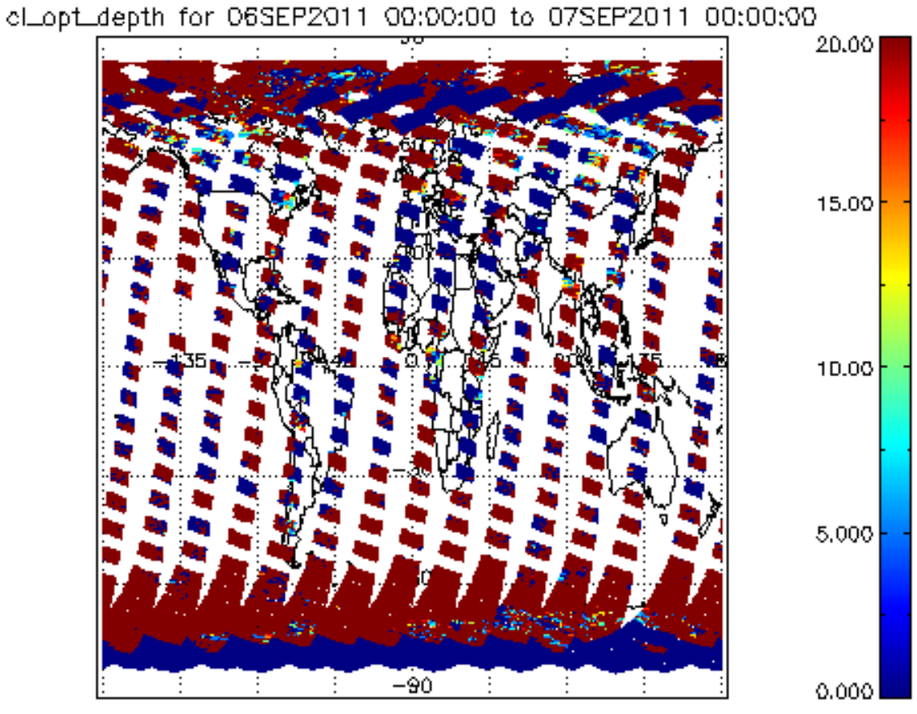


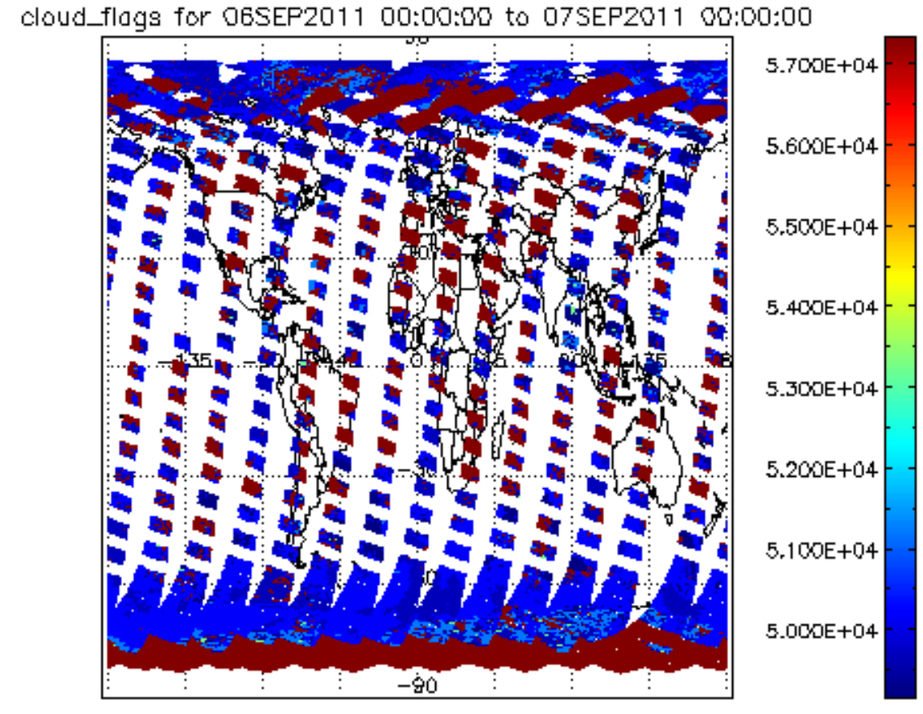
2.3 ADF monitoring

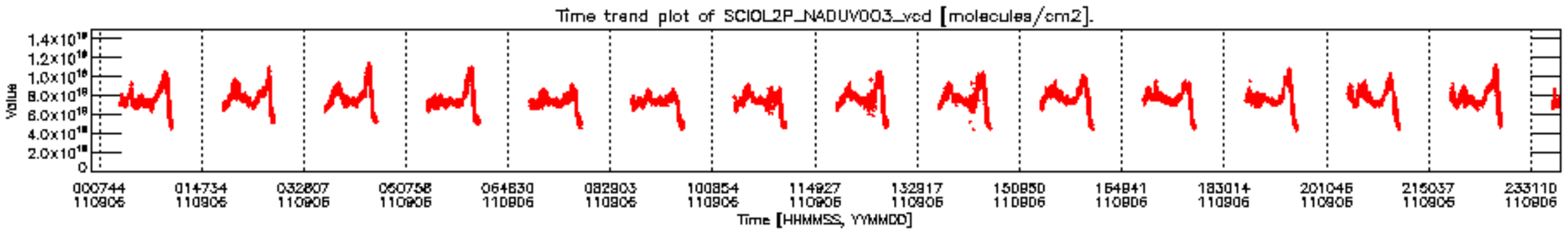
Number	ADF
	IN_ (INITIALISATION_FILE)
0	SCI_IN__AXNPDE20090615_120000_20090615_000000_20991231_235959
	ECF (ECMWF_FILE)
1	NOT USED
	MF1 (M_FACTOR_FILE)
2	**SCI_MF1_AXVIEC20110906_113150_20110905_185045_20110907_185045**
3	**SCI_MF1_AXVIEC20110906_113325_20110906_181400_20110908_181400**

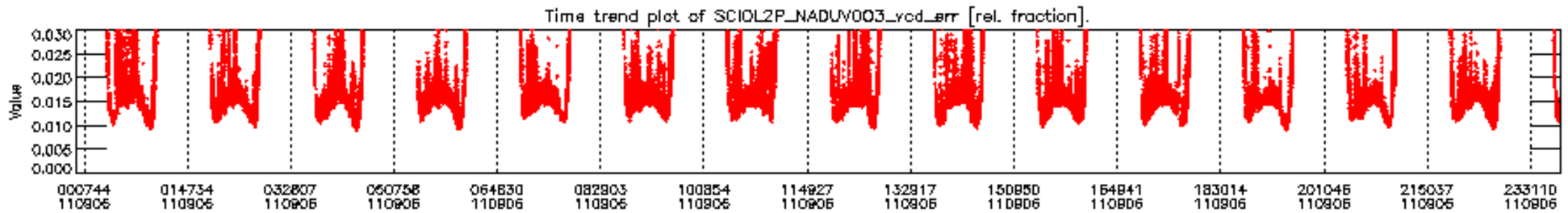

cl_frac for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
1.000
0.8000
0.6000
0.4000
0.2000
0.000
-90

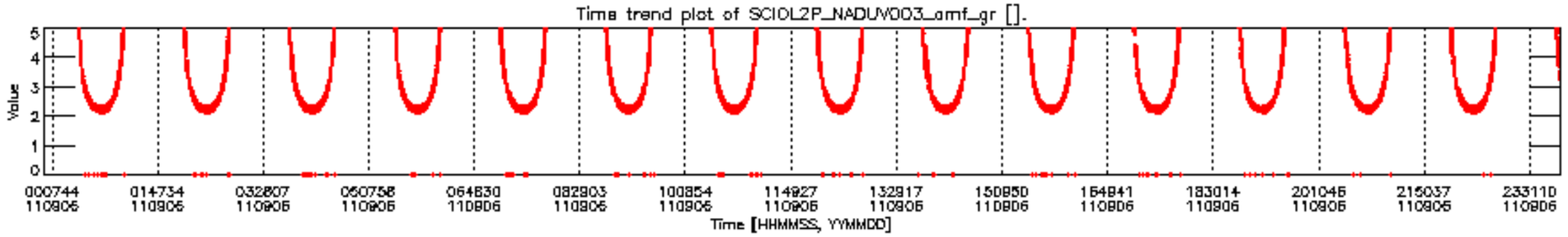

cl_top_height for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
20.00
15.00
10.00
5.000
0.000
-90

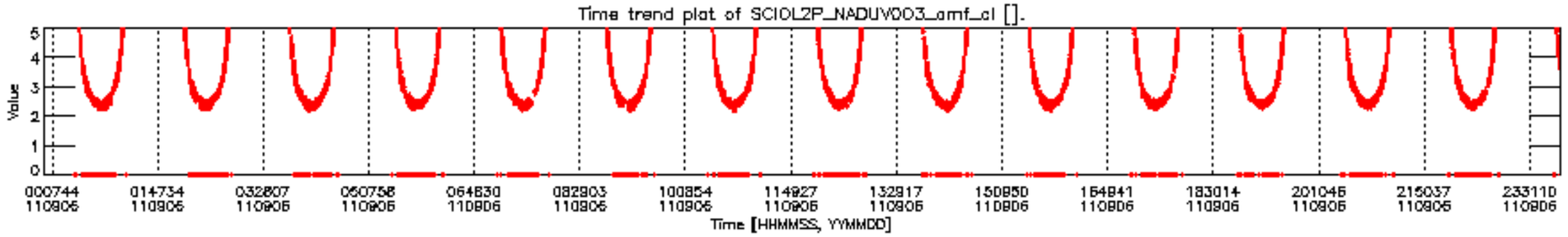

cl_opt_depth for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
20.00
15.00
10.00
5.000
0.000
-90

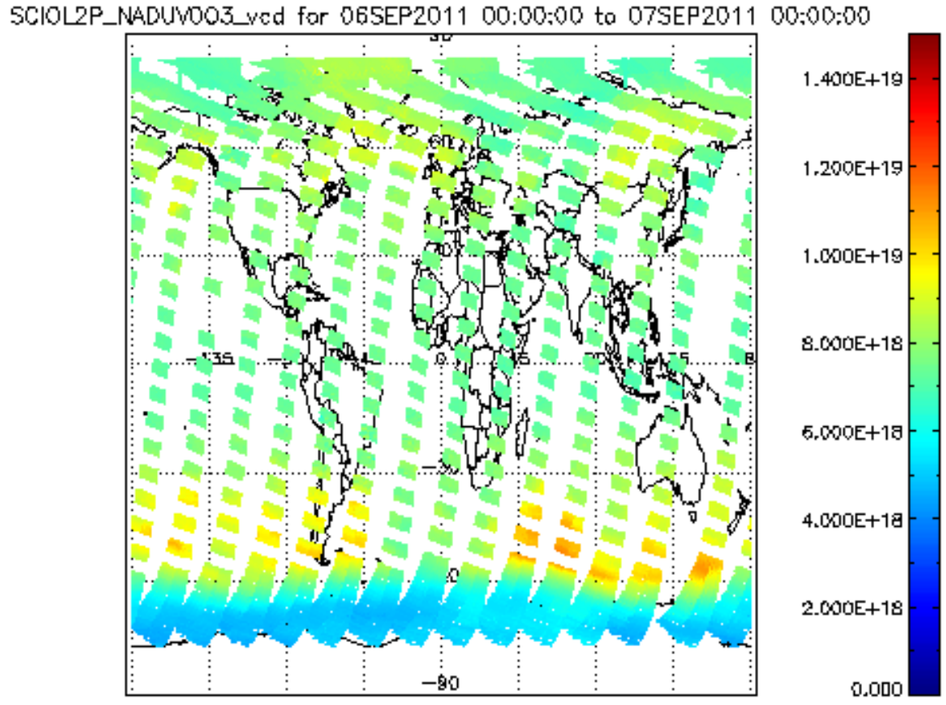

cloud_flags for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
5.700E+04
5.600E+04
5.500E+04
5.400E+04
5.300E+04
5.200E+04
5.100E+04
5.000E+04
-90

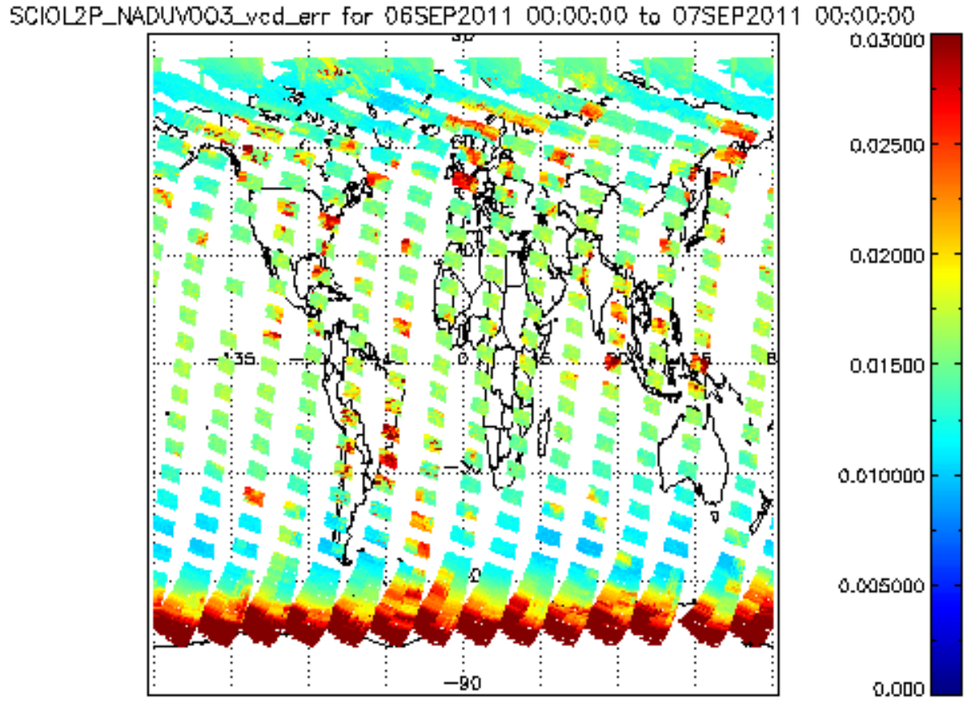

Time trend plot of SCIOL2P_NADUV003_vcd [molecules/cm2].
Value
1.4x10^18
1.2x10^18
1.0x10^18
8.0x10^18
6.0x10^18
4.0x10^18
2.0x10^18
0
000744 110905
014734 110905
032807 110905
050758 110905
064830 110905
082903 110905
100854 110905
114927 110905
132917 110905
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

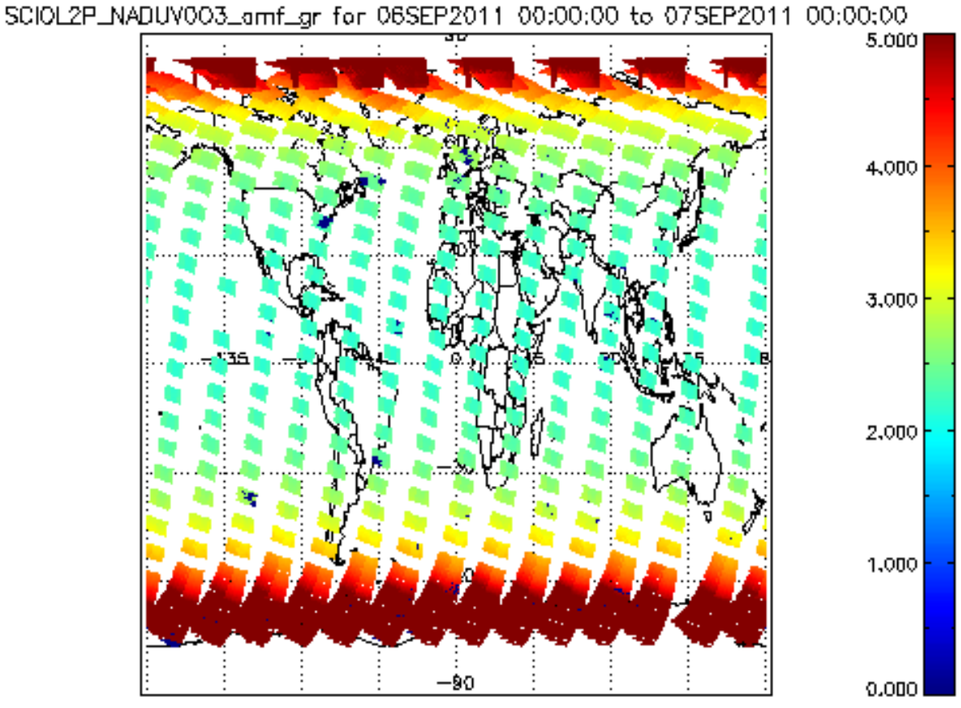

Time trend plot of SCIOL2P_NADUV003_vcd_err [rel. fraction].
Value
0.030
0.025
0.020
0.015
0.010
0.005
0.000
000744 110905
014734 110905
032807 110905
050758 110905
064830 110905
082903 110905
100854 110905
114927 110905
132917 110905
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

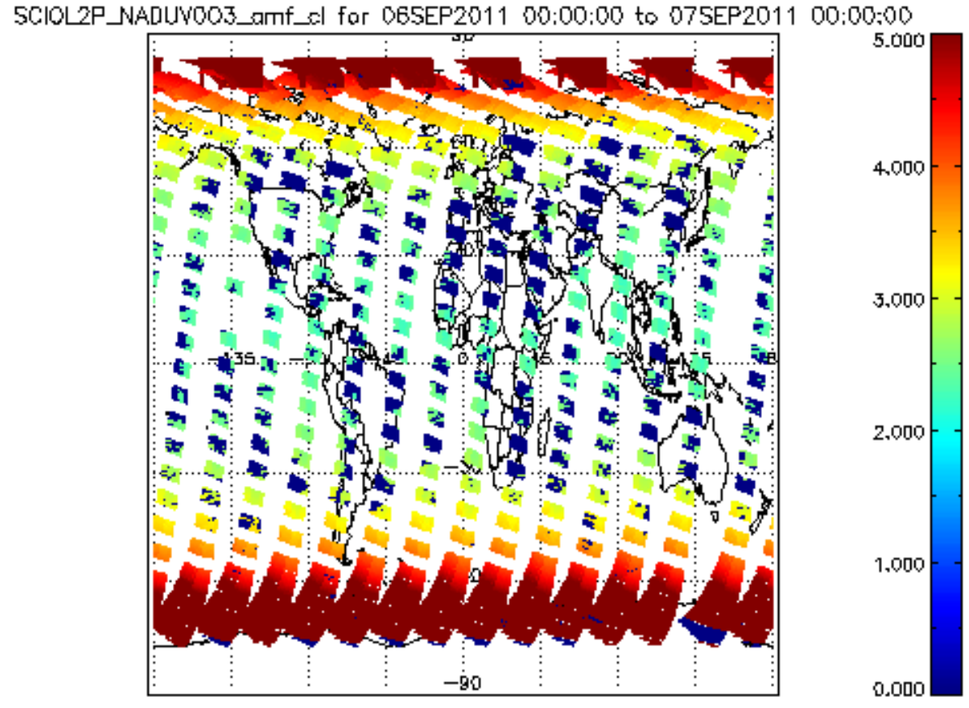

Time trend plot of SCIOL2P_NADUV003_amf_gr [].
Value
5
4
3
2
1
0
000744 110905
014734 110905
032807 110905
050758 110905
064830 110905
082903 110905
100854 110905
114927 110905
132917 110905
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

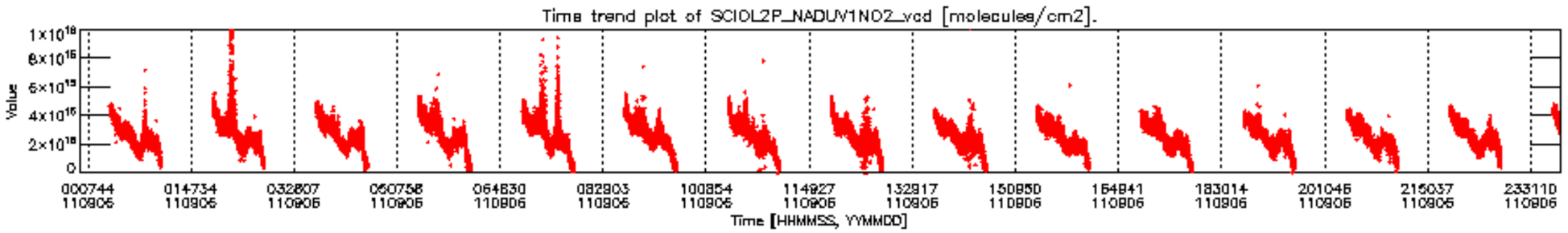

Time trend plot of SCIOL2P_NADUV003_amf_cl [].
Value
5
4
3
2
1
0
000744 110905
014734 110905
032807 110905
050758 110905
064830 110905
082903 110905
100854 110905
114927 110905
132917 110905
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

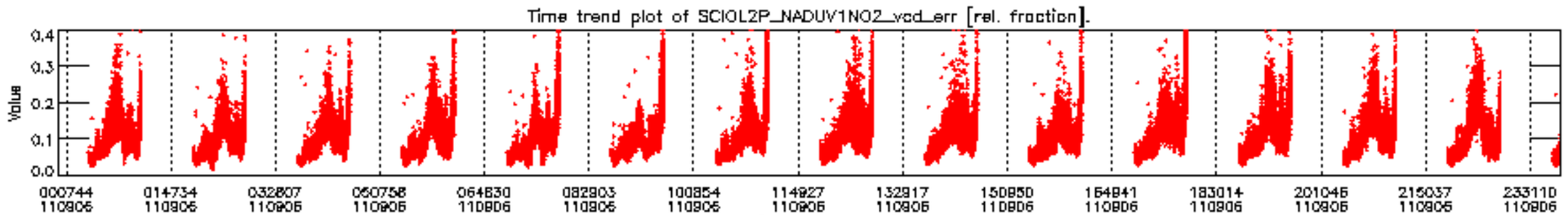

SCIOL2P_NADUV003_vcd for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
1.400E+19
1.200E+19
1.000E+19
8.000E+18
6.000E+18
4.000E+18
2.000E+18
0.000
−90

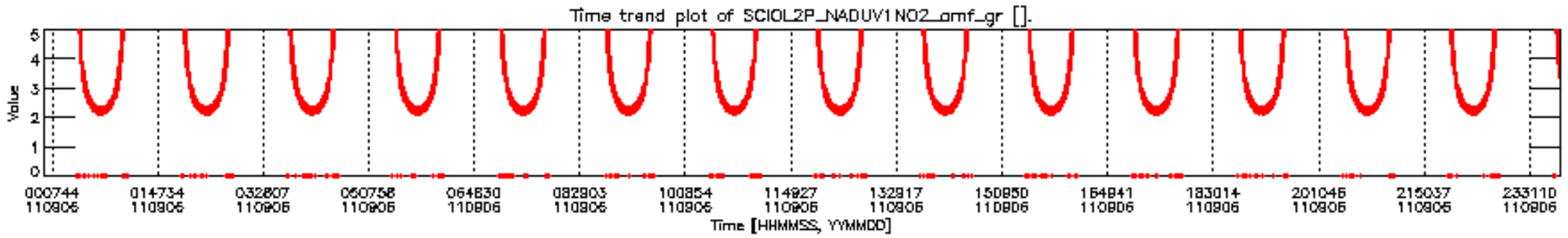

SCIOL2P_NADUV003_vcd_err for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
0.03000
0.02500
0.02000
0.01500
0.010000
0.005000
0.000
−90

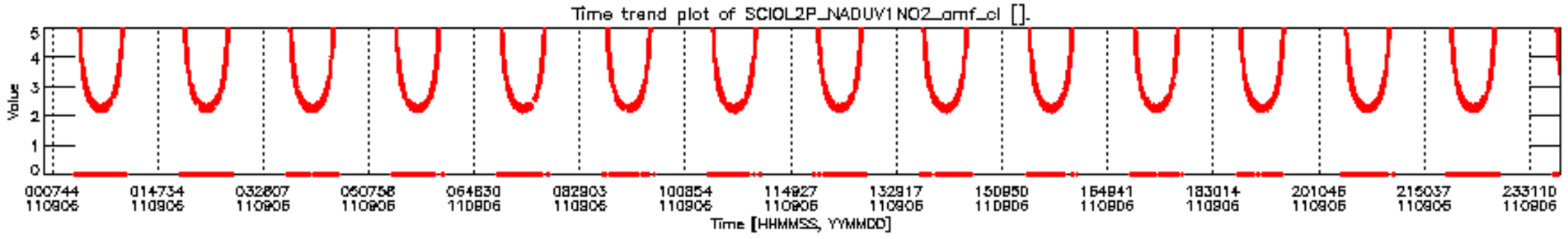

SCIOL2P_NADUV003_amf_gr for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
−90

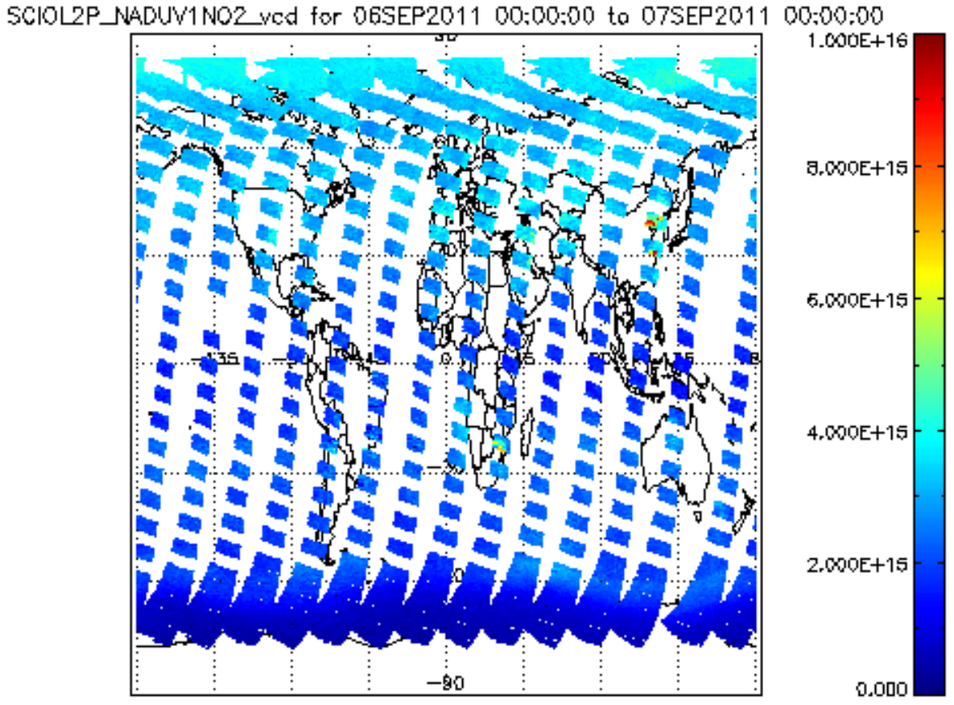

SCIOL2P_NADUV003_amf_cl for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
−90

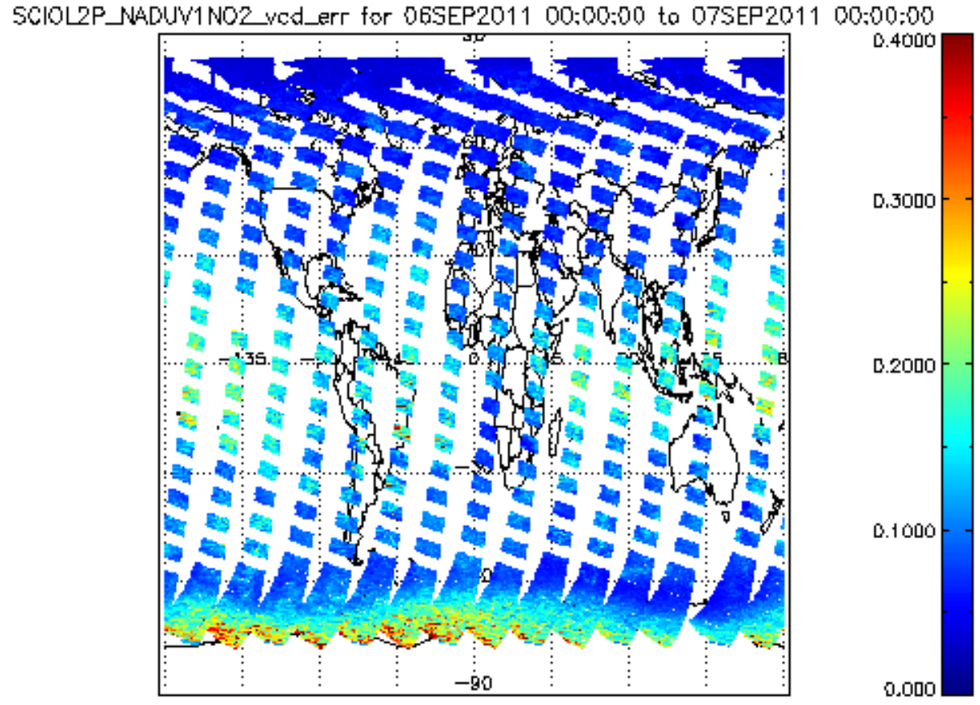

Time trend plot of SCIOL2P_NADUV1NO2_vcd [molecules/cm2].
Value
1x10^16
8x10^15
6x10^15
4x10^15
2x10^15
0
000744 110906
014734 110906
032807 110906
050758 110906
064630 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

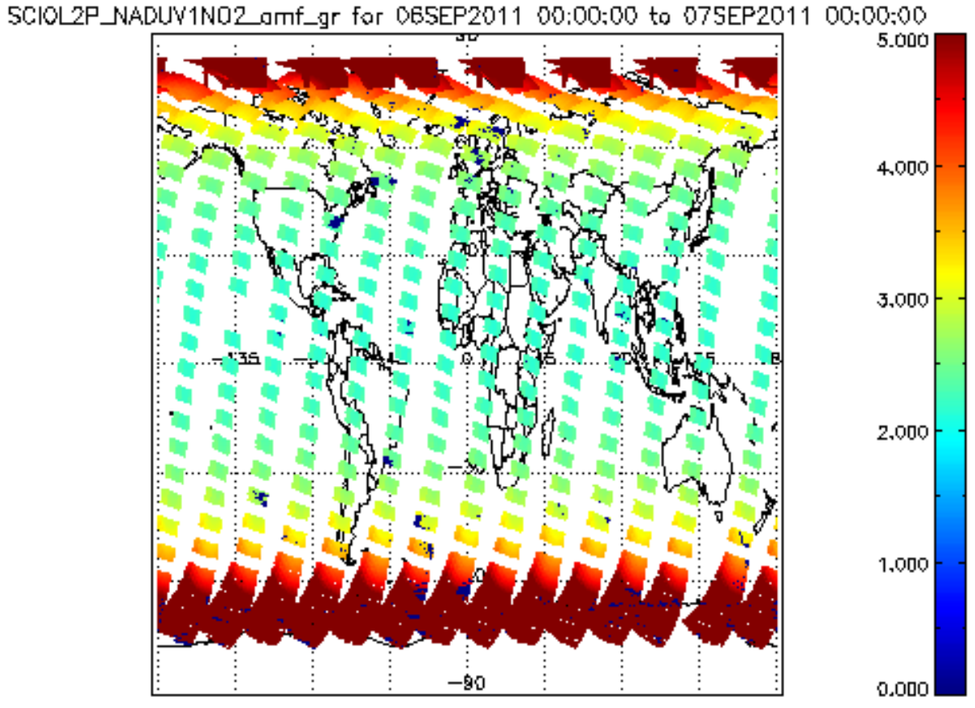

Time trend plot of SCIOL2P_NADUV1NO2_vcd_err [rel. fraction].
Value
0.4
0.3
0.2
0.1
0.0
000744 110906
014734 110906
032807 110906
050758 110906
064630 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

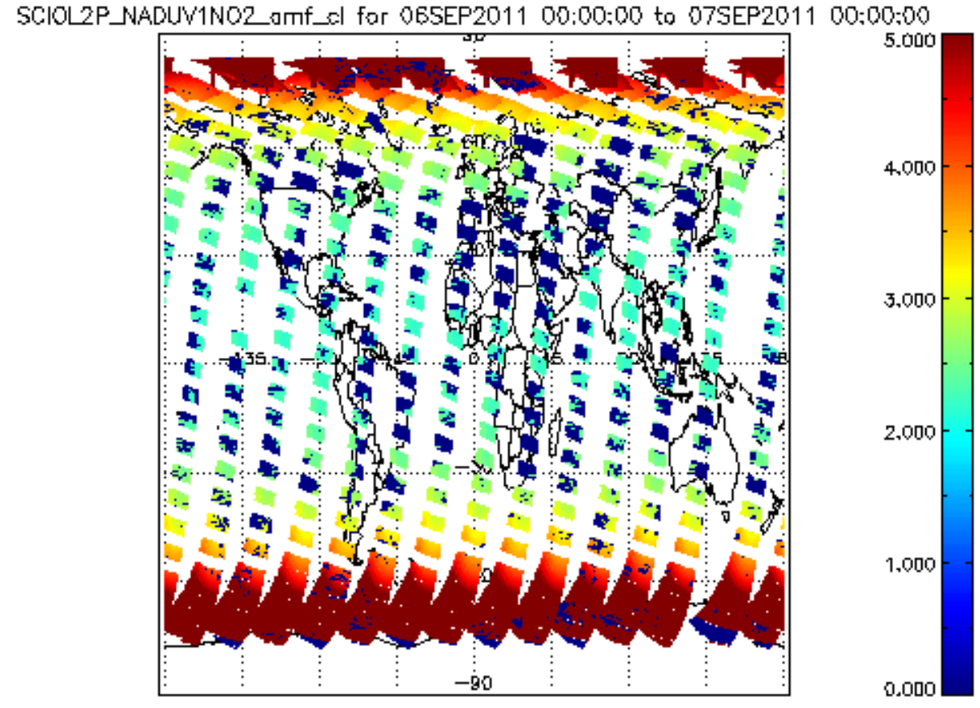

Time trend plot of SCIOL2P_NADUV1NO2_amf_gr [].
Value
5
4
3
2
1
0
000744 110906
014734 110906
032807 110906
050758 110906
064630 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

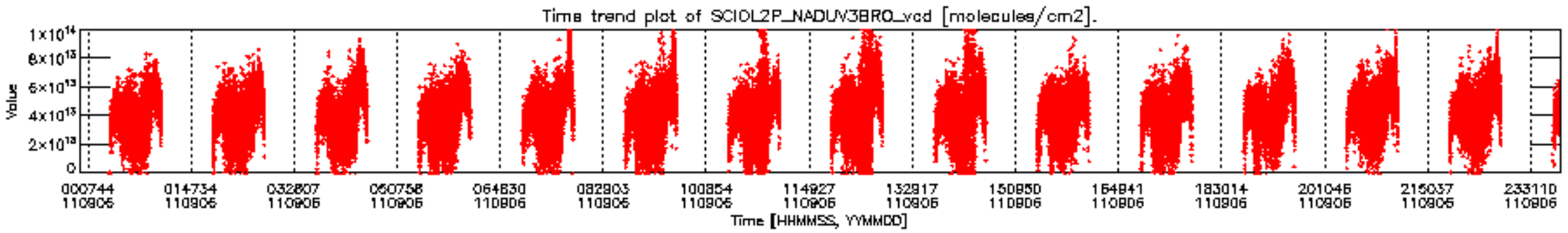

Time trend plot of SCIOL2P_NADUV1NO2_amf_cl [].
Value
5
4
3
2
1
0
000744 110906
014734 110906
032807 110906
050758 110906
064630 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

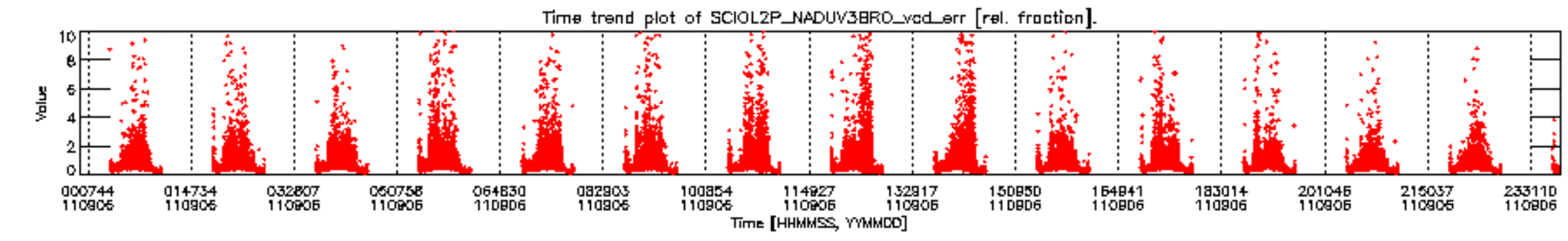

SCIOL2P_NADUV1NO2_vcd for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
1.000E+16
8.000E+15
6.000E+15
4.000E+15
2.000E+15
0.000
-90

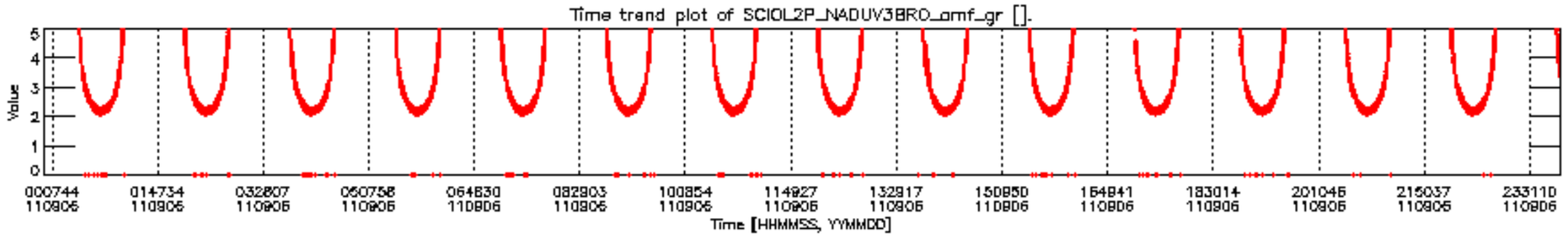

SCIOL2P_NADUV1NO2_vcd_err for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
0.4000
0.3000
0.2000
0.1000
0.000
-90

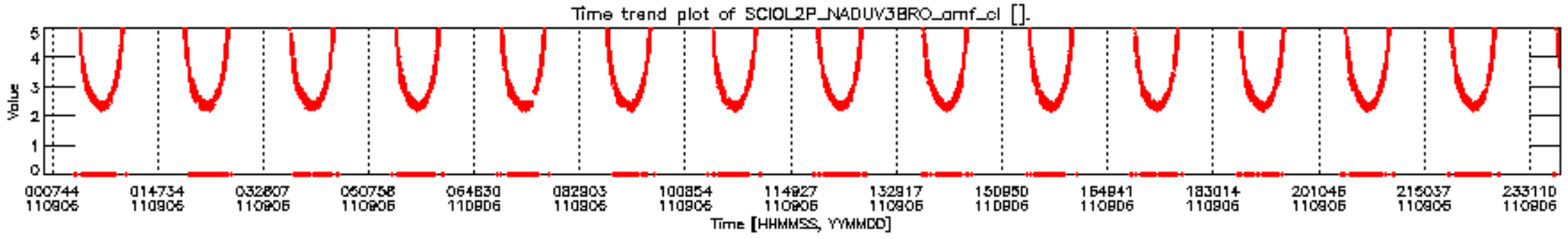

SCIOL2P_NADUV1NO2_amf_gr for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90

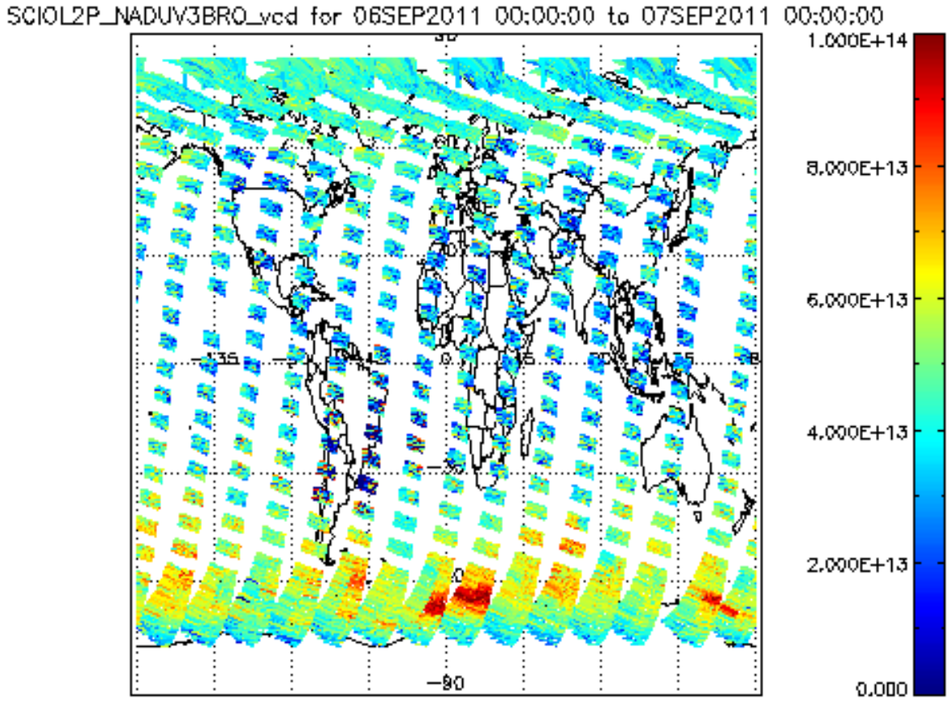

SCIOL2P_NADUV1NO2_amf_cl for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90

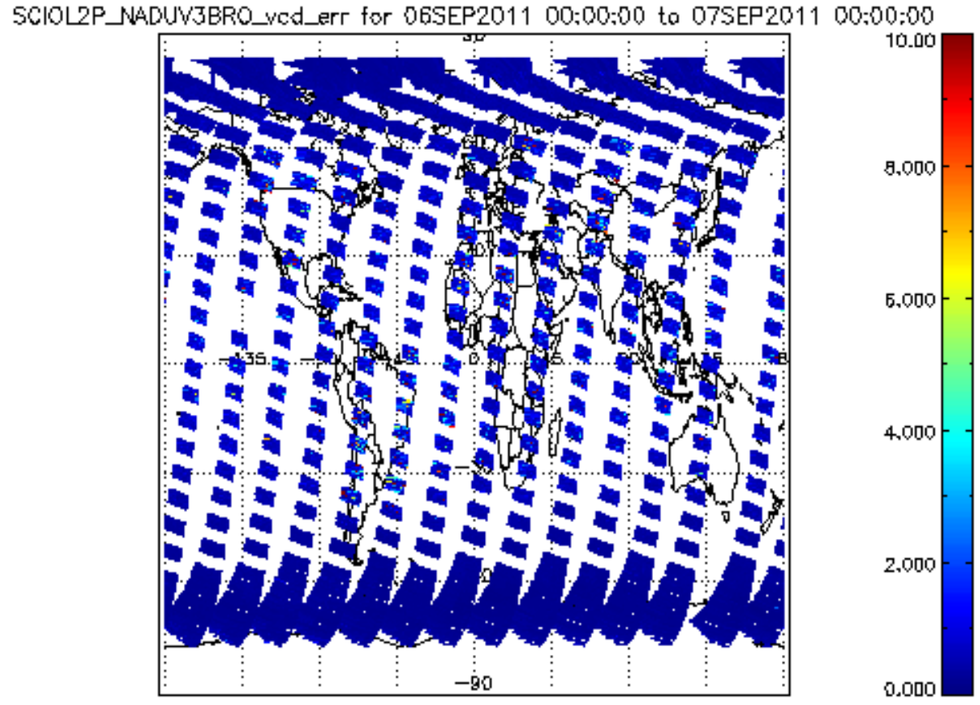

Time trend plot of SCIOL2P_NADUV3BRO_vcd [molecules/cm2].
Value
1x10^14
8x10^13
6x10^13
4x10^13
2x10^13
0
000744 110906
014734 110906
032807 110906
050758 110906
064830 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

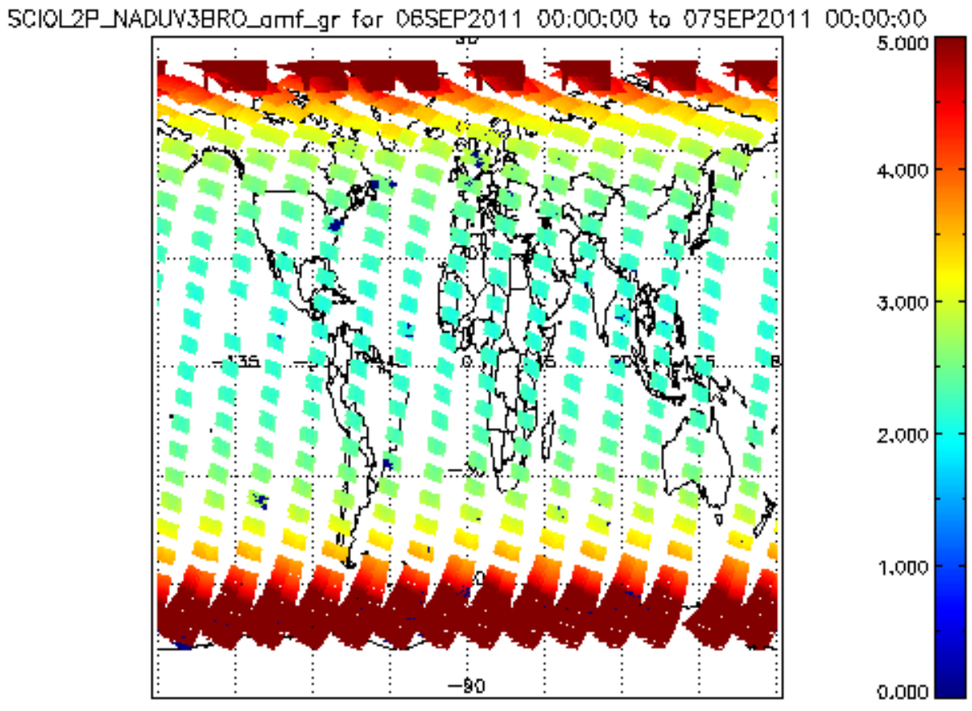

Time trend plot of SCIOL2P_NADUV3BRO_vcd_err [rel. fraction].
Value
10
8
6
4
2
0
000744 110906
014734 110906
032807 110906
050758 110906
064830 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

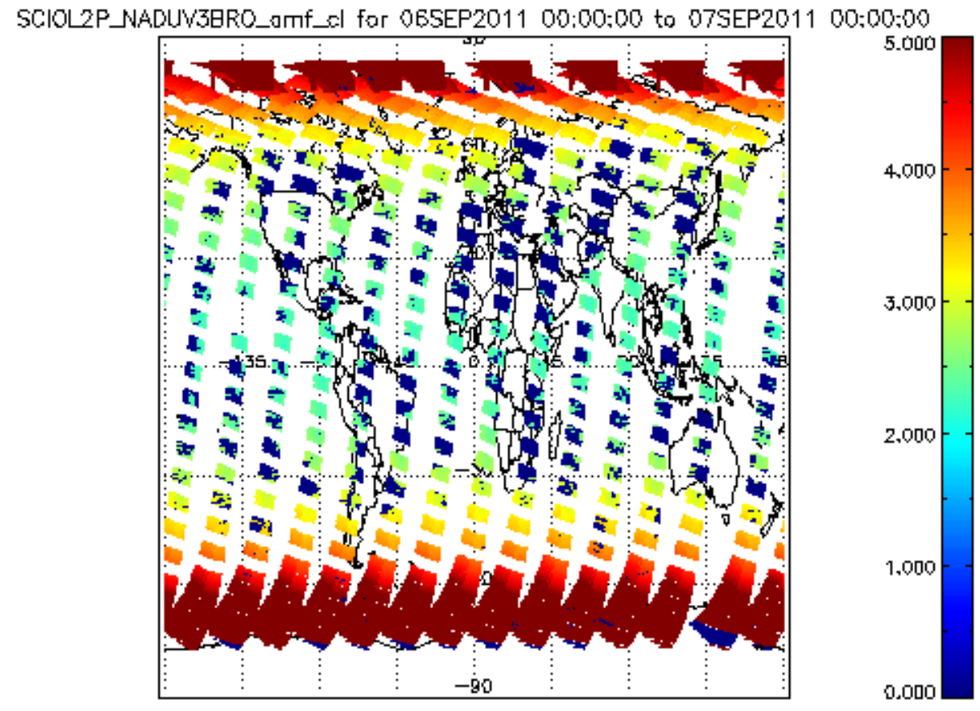

Time trend plot of SCIOL2P_NADUV3BRO_amf_gr [].
Value
5
4
3
2
1
0
000744 110906
014734 110906
032807 110906
050758 110906
064830 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

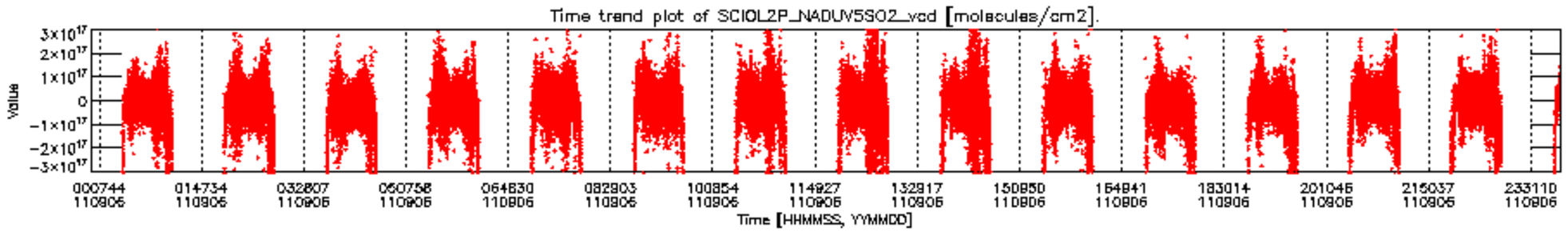

Time trend plot of SCIOL2P_NADUV3BRO_amf_cl [].
Value
5
4
3
2
1
0
000744 110906
014734 110906
032807 110906
050758 110906
064830 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

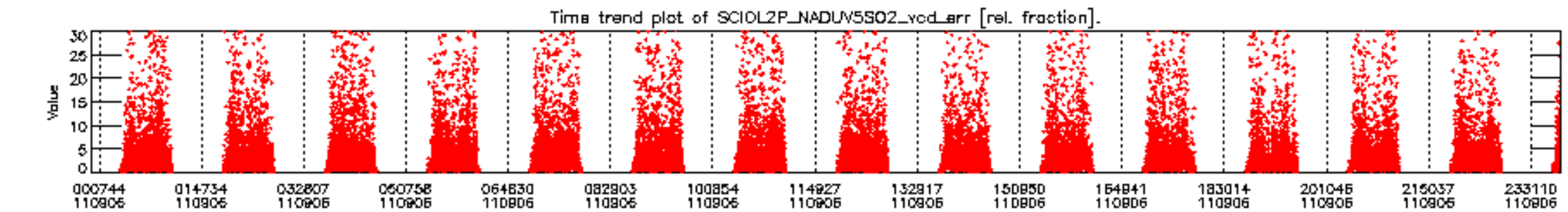

SCIOL2P_NADUV3BRO_vcd for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
1.000E+14
8.000E+13
6.000E+13
4.000E+13
2.000E+13
0.000
−90

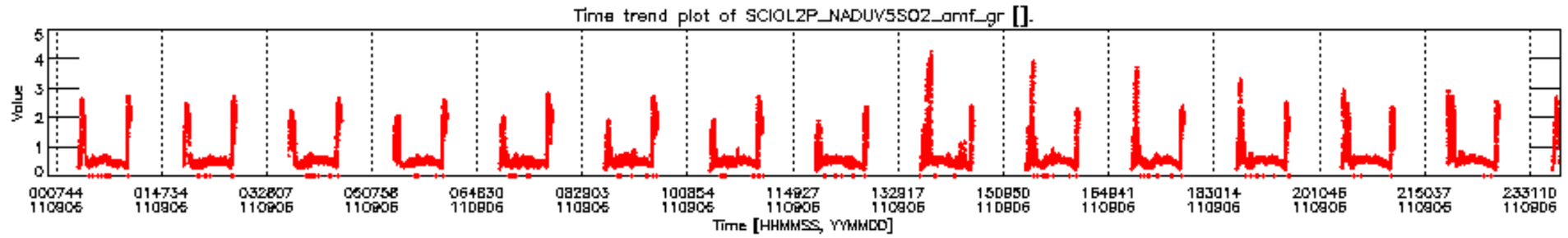

SCIOL2P_NADUV3BRO_vcd_err for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
10.00
8.000
6.000
4.000
2.000
0.000
−90

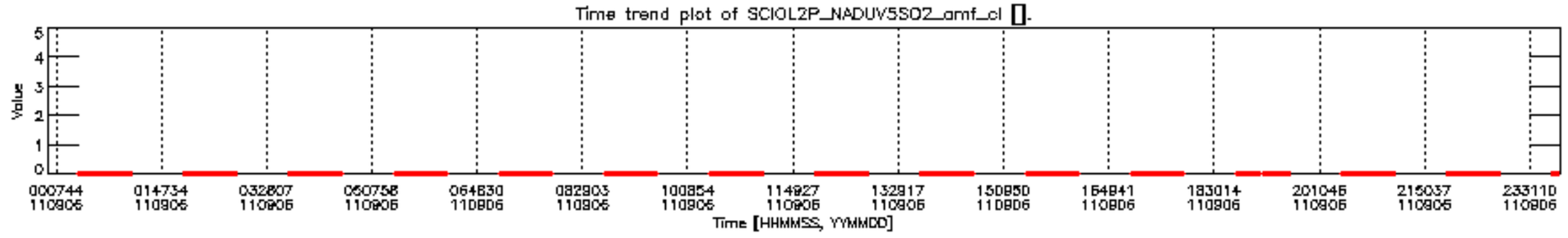

SCIOL2P_NADUV3BRO_amf_gr for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
−90

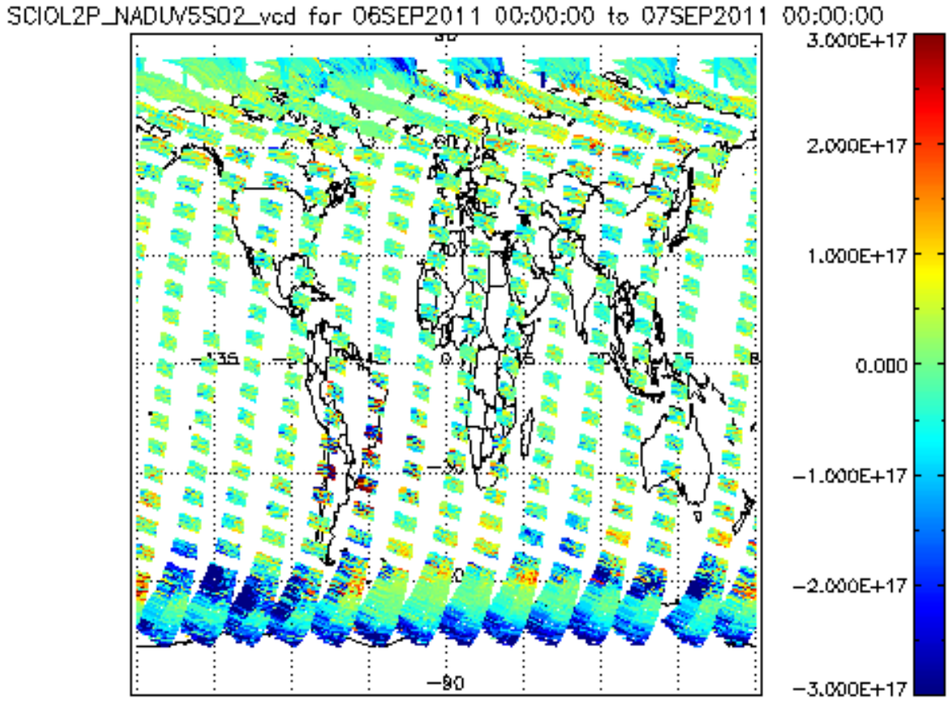

SCIOL2P_NADUV3BRO_amf_cl for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
−90

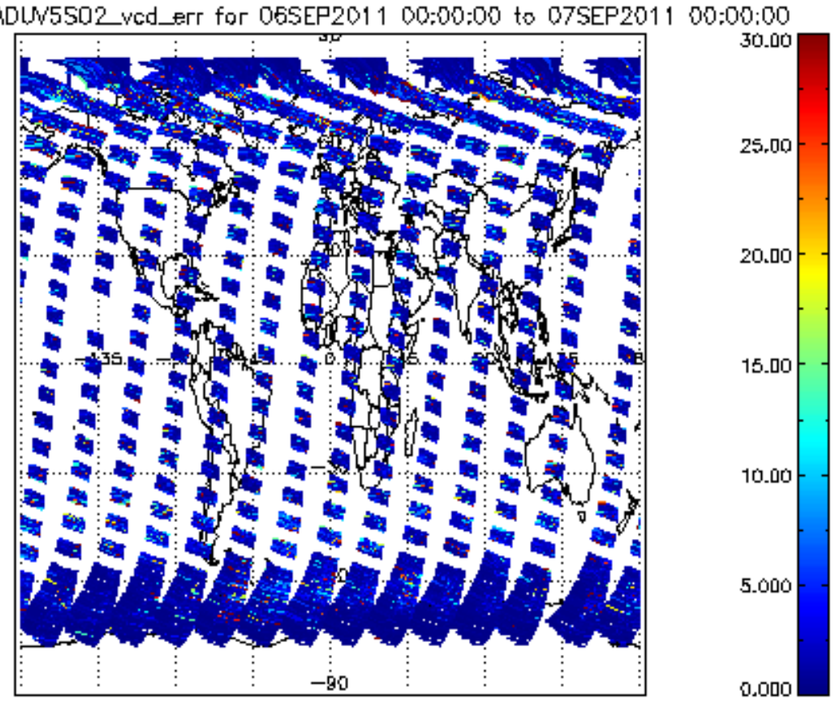

Time trend plot of SCIOL2P_NADUV5SO2_vcd [molecules/cm2].
Value
3x10^17
2x10^17
1x10^17
0
-1x10^17
-2x10^17
-3x10^17
000744 110906
014734 110906
032807 110906
050758 110906
064830 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

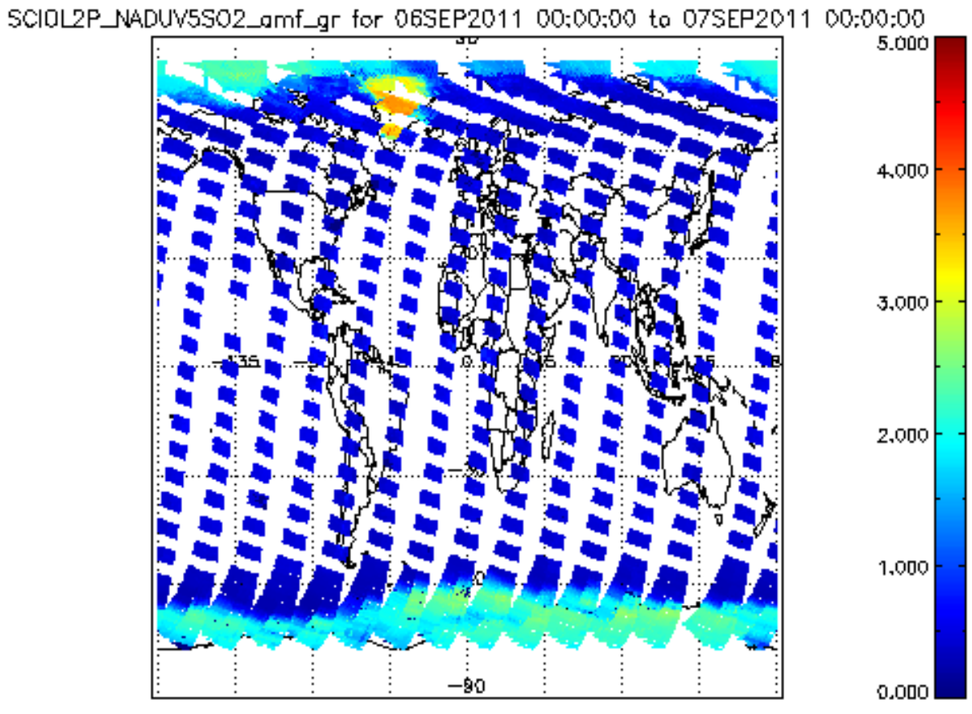

Time trend plot of SCIOL2P_NADUV5SO2_vcd_err [rel. fraction].
Value
30
25
20
15
10
5
0
000744 110906
014734 110906
032807 110906
050758 110906
064830 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

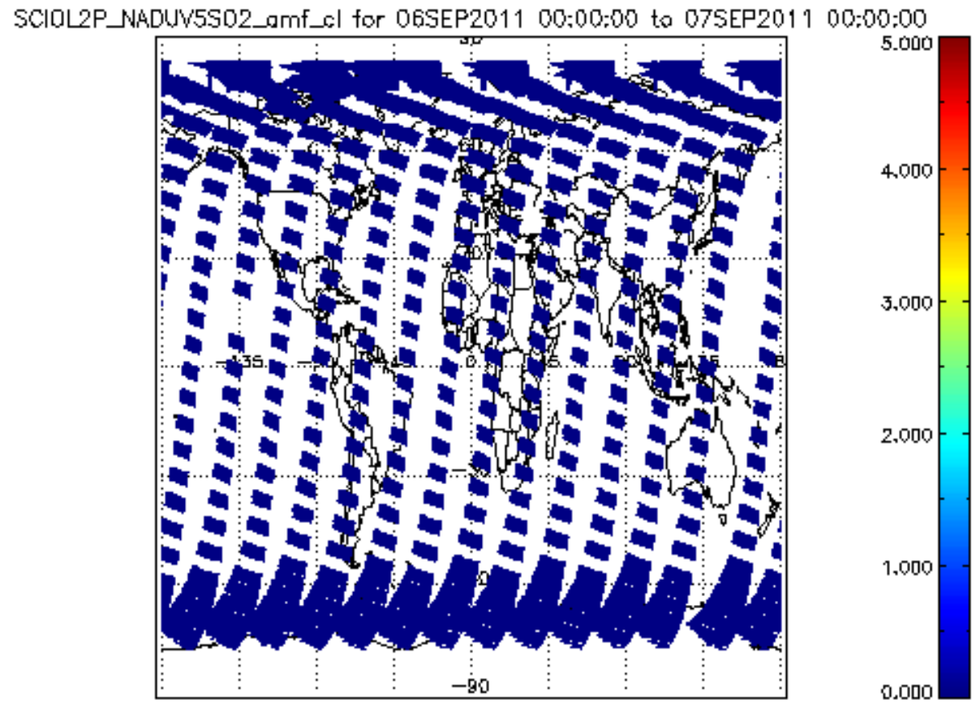

Time trend plot of SCIOL2P_NADUV5SO2_amf_gr [].
Value
5
4
3
2
1
0
000744 110906
014734 110906
032807 110906
050758 110906
064830 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

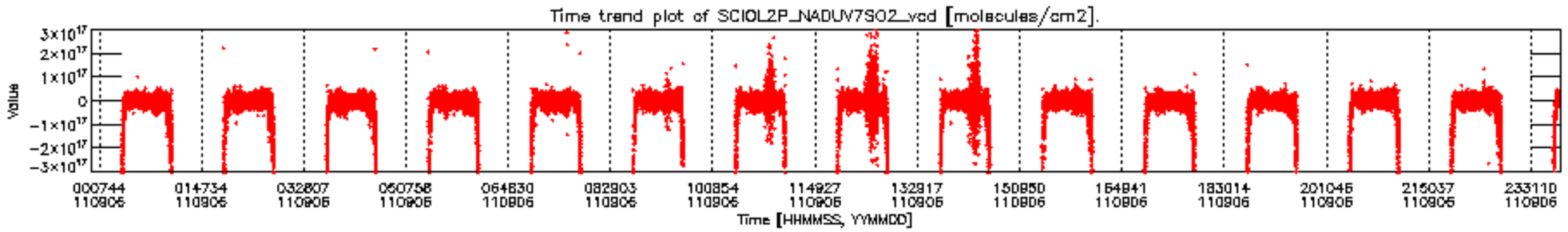

Time trend plot of SCIOL2P_NADUV5SO2_amf_cl [].
Value
5
4
3
2
1
0
000744 110906
014734 110906
032807 110906
050758 110906
064830 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

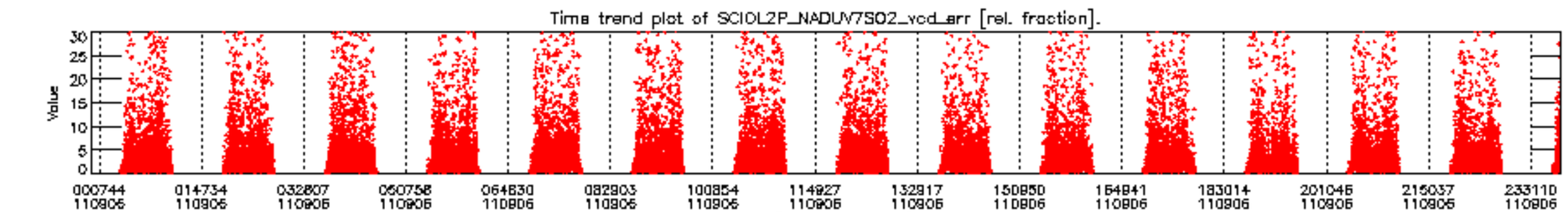

SCIOL2P_NADUV5SO2_vcd for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
3.000E+17
2.000E+17
1.000E+17
0.000
-1.000E+17
-2.000E+17
-3.000E+17
-90

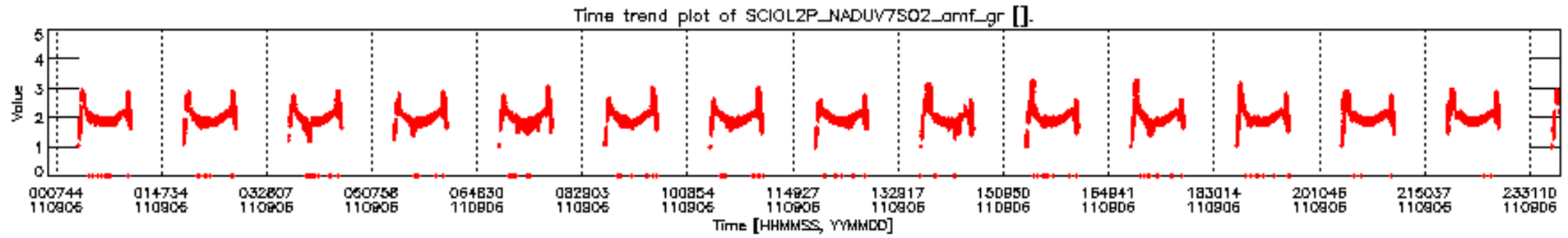

SCIOL2P_NADUV5SO2_vcd_err for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
-90

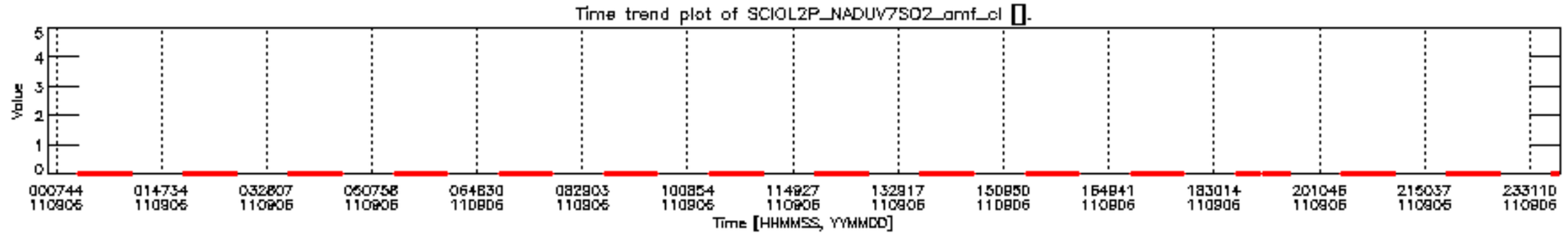

SCIOL2P_NADUV5SO2_amf_gr for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90

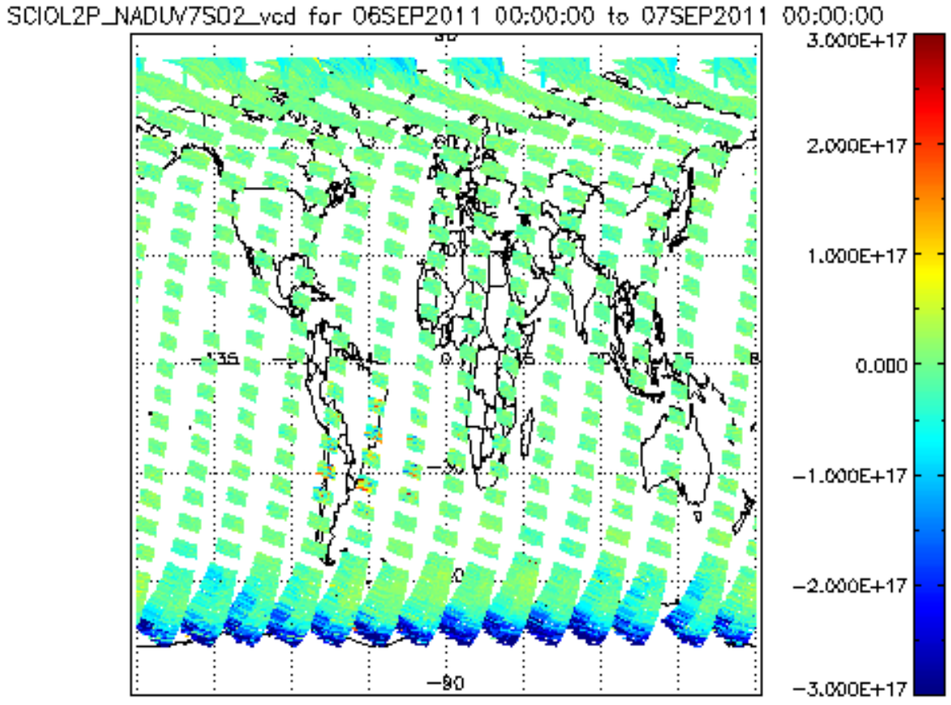

SCIOL2P_NADUV5SO2_amf_cl for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90

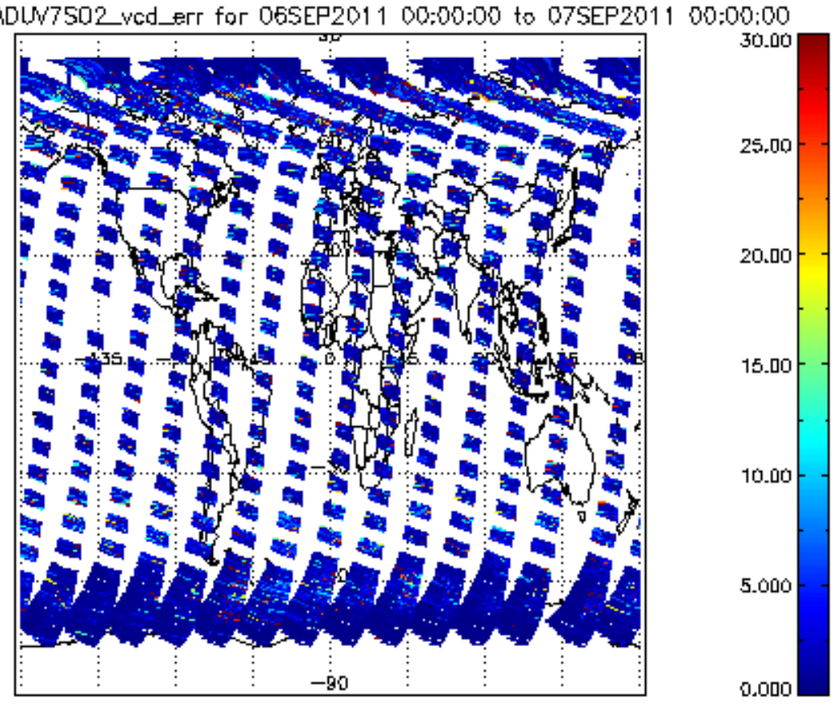

Time trend plot of SCIOL2P_NADUV7SO2_vcd [molecules/cm2].
Value
3x10^17
2x10^17
1x10^17
0
-1x10^17
-2x10^17
-3x10^17
000744 110906
014734 110906
032807 110906
050758 110906
064630 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

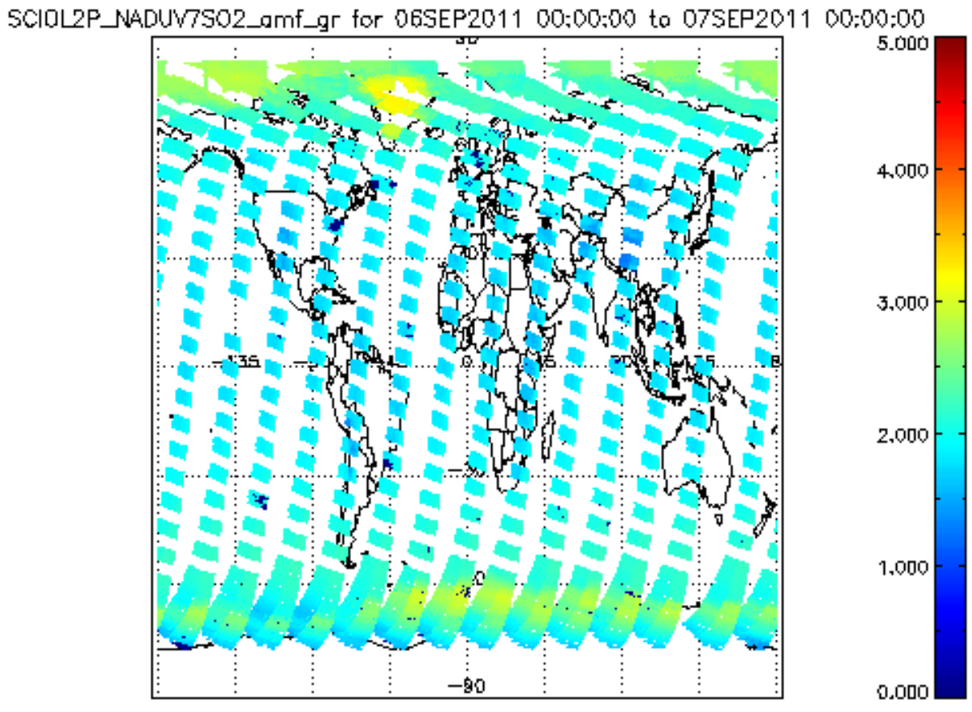

Time trend plot of SCIOL2P_NADUV7SO2_vcd_err [rel. fraction].
Value
30
25
20
15
10
5
0
000744 110906
014734 110906
032807 110906
050758 110906
064630 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

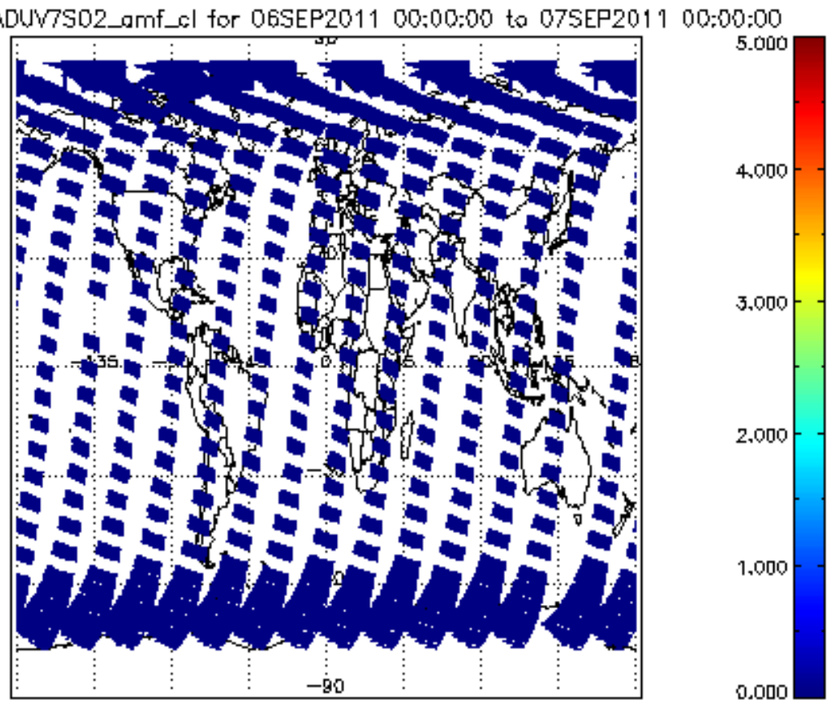

Time trend plot of SCIOL2P_NADUV7SO2_amf_gr [].
Value
5
4
3
2
1
0
000744 110906
014734 110906
032807 110906
050758 110906
064630 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

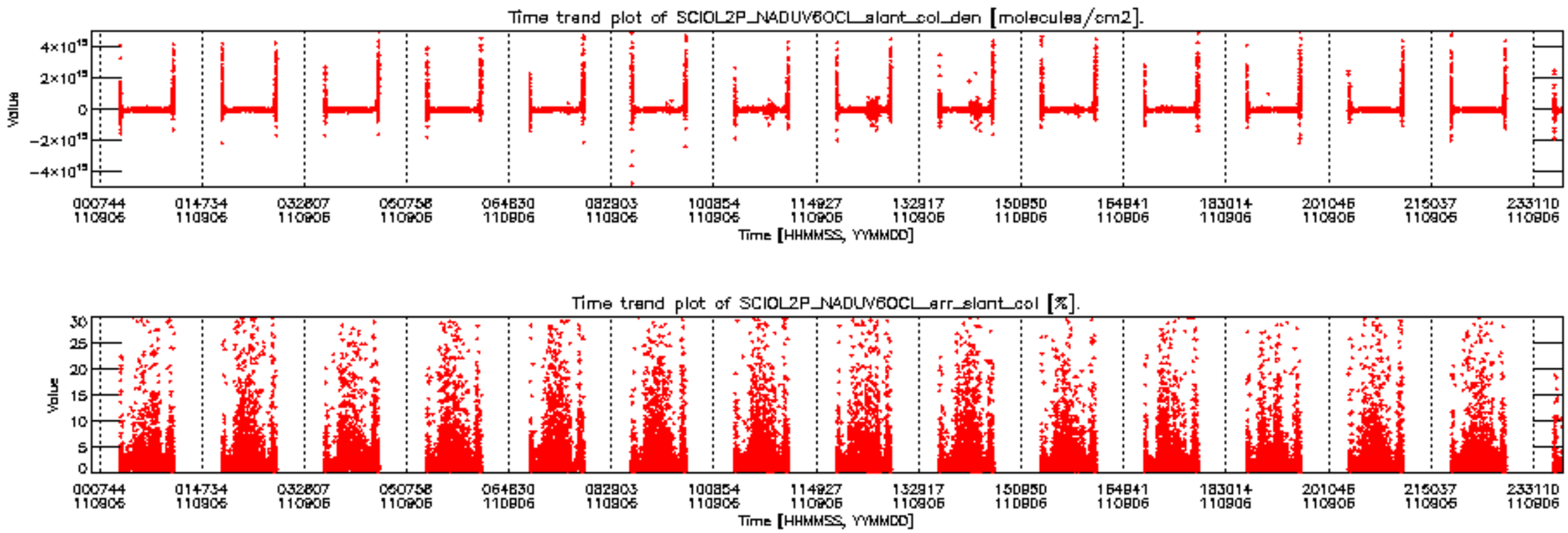

Time trend plot of SCIOL2P_NADUV7SO2_amf_cl [].
Value
5
4
3
2
1
0
000744 110906
014734 110906
032807 110906
050758 110906
064630 110906
082903 110906
100854 110906
114927 110906
132917 110906
150850 110906
164841 110906
183014 110906
201046 110906
215037 110906
233110 110906
Time [HHMMSS, YYMMDD]

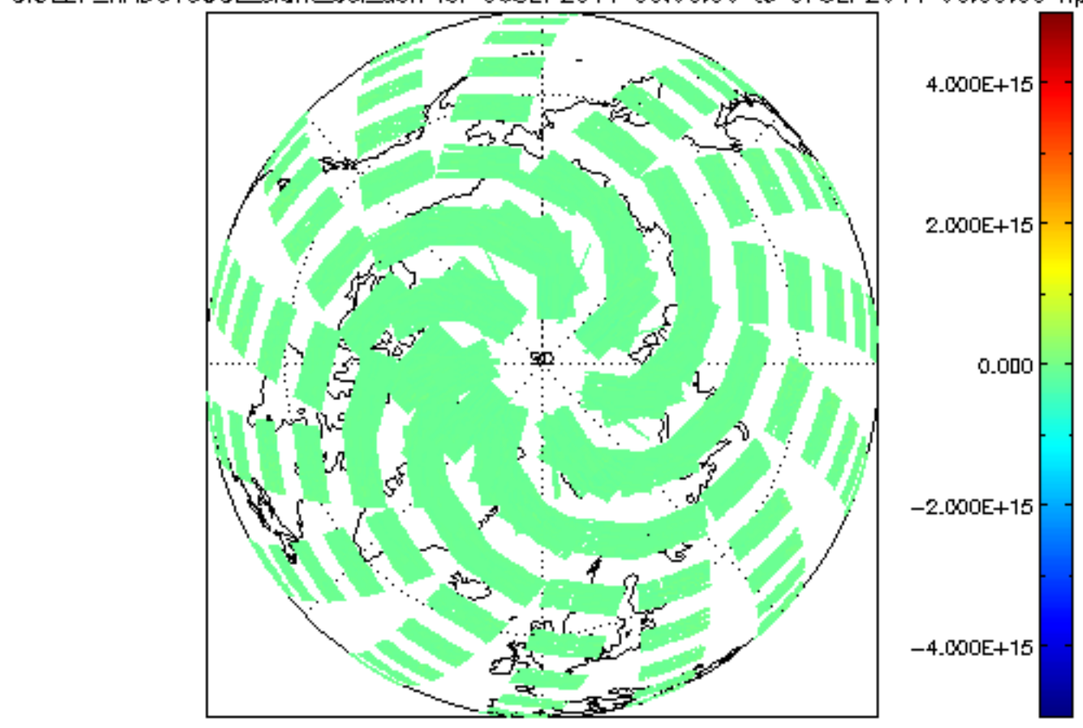

SCIOL2P_NADUV7SO2_vcd for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
3.000E+17
2.000E+17
1.000E+17
0.000
-1.000E+17
-2.000E+17
-3.000E+17
-90

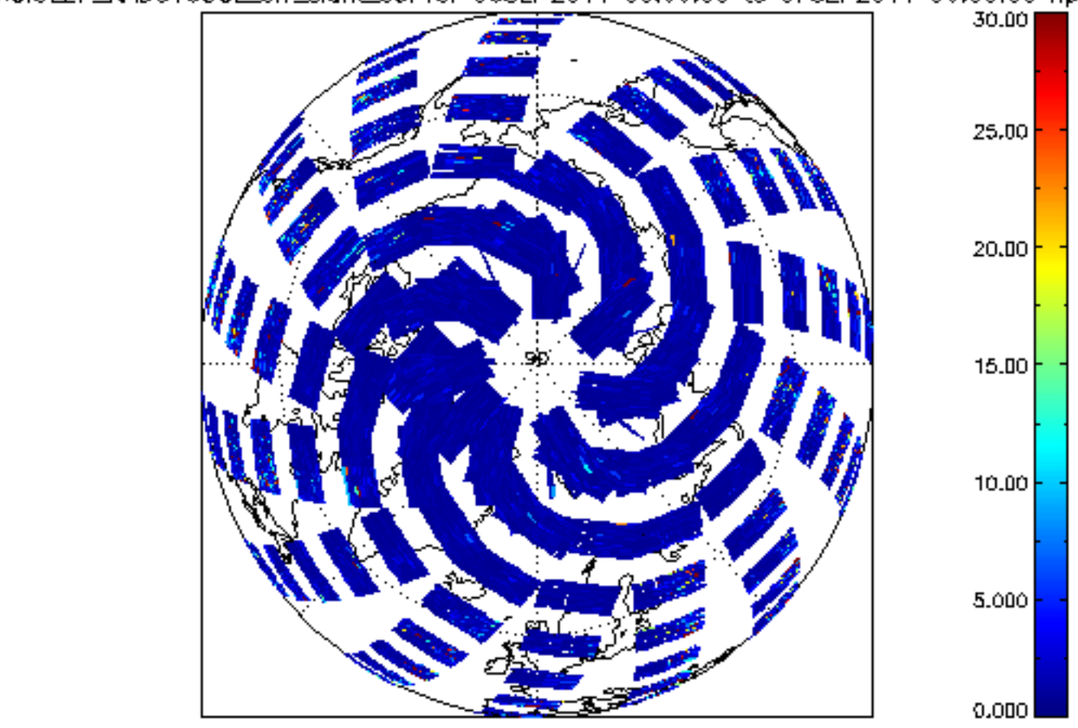

SCIOL2P_NADUV7SO2_vcd_err for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
-90

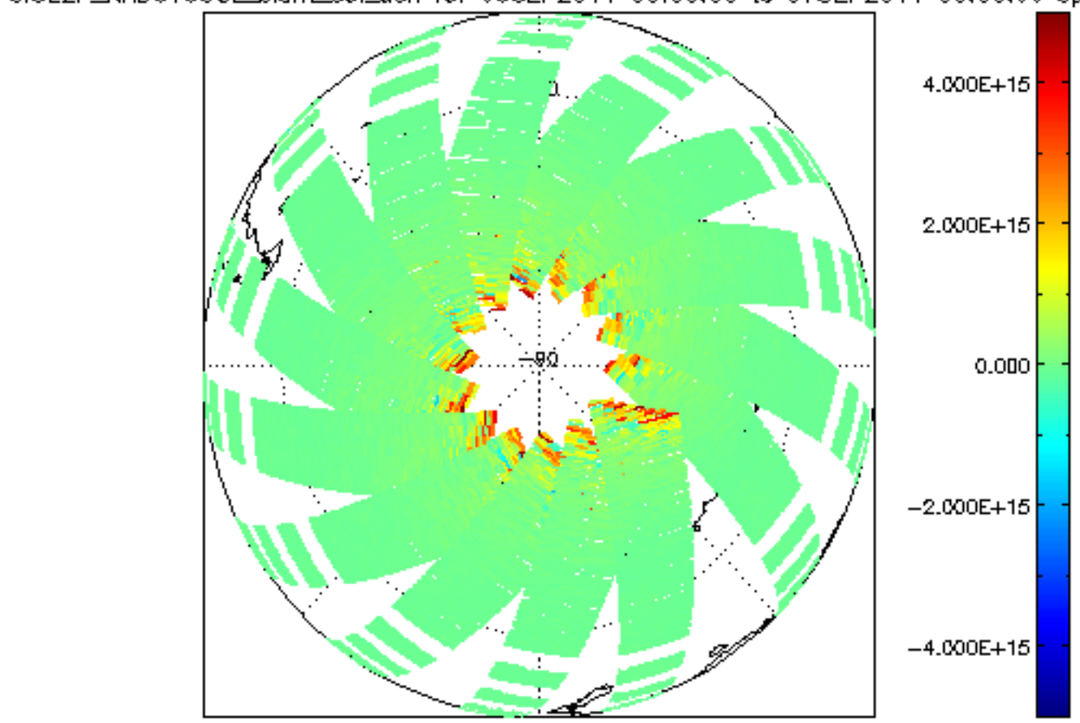

SCIOL2P_NADUV7SO2_amf_gr for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90

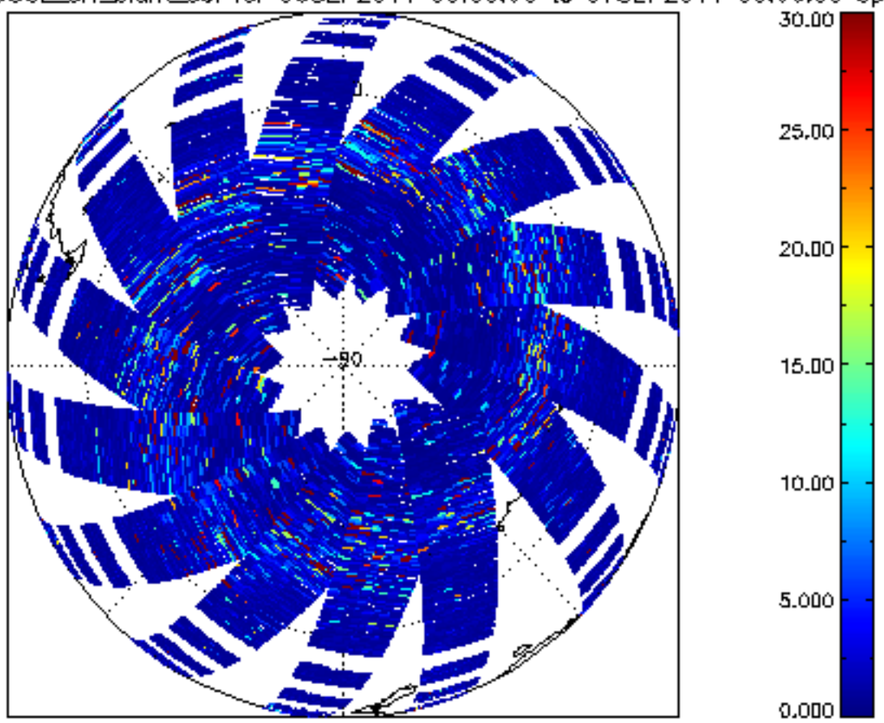

SCIOL2P_NADUV7SO2_amf_cl for 06SEP2011 00:00:00 to 07SEP2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90

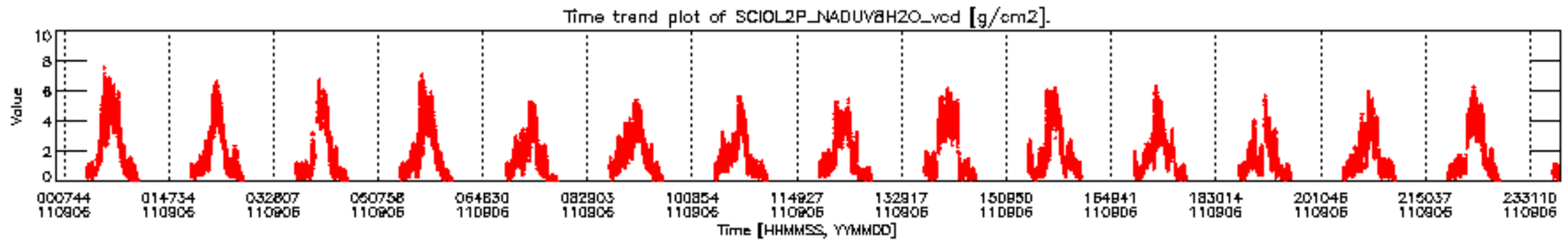

Time trend plot of SCIOL2P_NADUV6OCL_slant_col_den [molecules/cm2].
Value
4×10¹⁵
2×10¹⁵
0
−2×10¹⁵
−4×10¹⁵
000744 110905
014734 110905
032807 110905
050758 110905
064630 110906
082903 110905
100854 110905
114927 110905
132917 110905
150850 110906
164841 110906
183014 110906
201046 110905
215037 110905
233110 110906
Time [HHMMSS, YYMMDD]
Time trend plot of SCIOL2P_NADUV6OCL_arr_slant_col [%].
Value
30
25
20
15
10
5
0
000744 110905
014734 110905
032807 110905
050758 110905
064630 110906
082903 110905
100854 110905
114927 110905
132917 110905
150850 110906
164841 110906
183014 110906
201046 110905
215037 110905
233110 110906
Time [HHMMSS, YYMMDD]

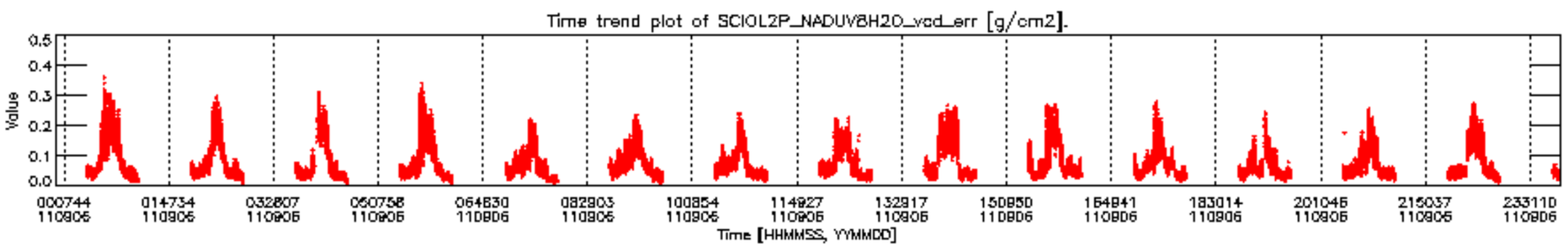

CIOL2P_NADUV6OCL_slant_col_den for 06SEP2011 00:00:00 to 07SEP2011 00:00:00 np
4.000E+15
2.000E+15
0.000
−2.000E+15
−4.000E+15

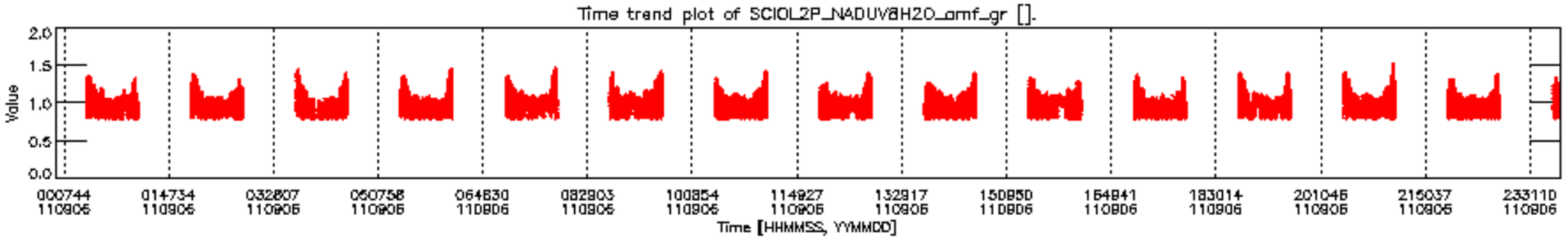

CIOL2P_NADUV6OCL_err_slant_col for 06SEP2011 00:00:00 to 07SEP2011 00:00:00 np
30.00
25.00
20.00
15.00
10.00
5.000
0.000


ClOL2P_NADUV6OCL_slant_col_den for 06SEP2011 00:00:00 to 07SEP2011 00:00:00 sp
−90
4.000E+15
2.000E+15
0.000
−2.000E+15
−4.000E+15

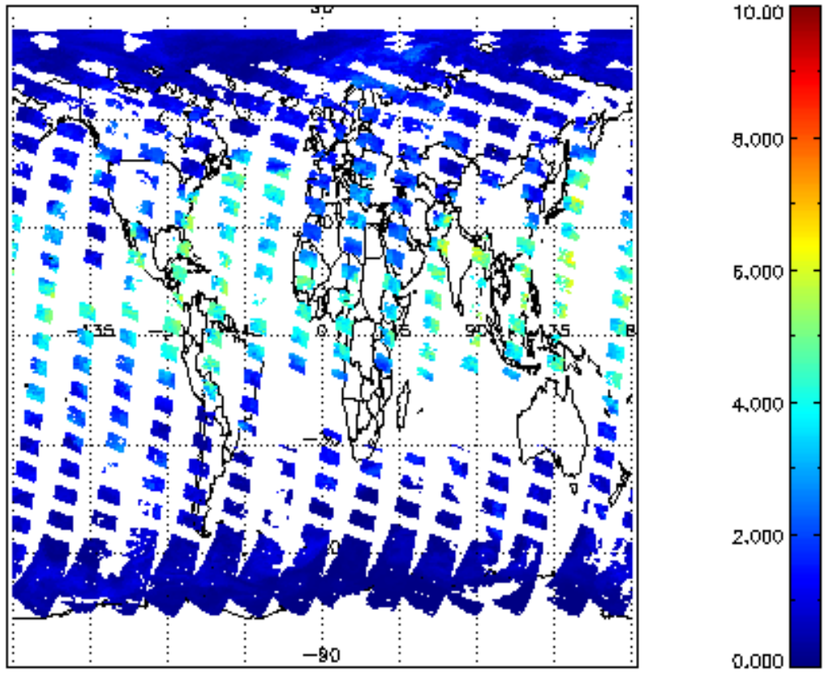

ClOL2P_NADUV6OCL_err_slant_col for 06SEP2011 00:00:00 to 07SEP2011 00:00:00 sp
−90
30.00
25.00
20.00
15.00
10.00
5.000
0.000


Time trend plot of SCIOL2P_NADUVBH2O_vcd [g/cm2].
Value
10
8
6
4
2
0
000744 110905
014734 110905
032807 110905
050758 110905
064830 110905
082903 110905
100854 110905
114927 110905
132917 110905
150850 110905
164841 110905
183014 110905
201046 110905
215037 110905
233110 110905
Time [HHMMSS, YYMMDD]

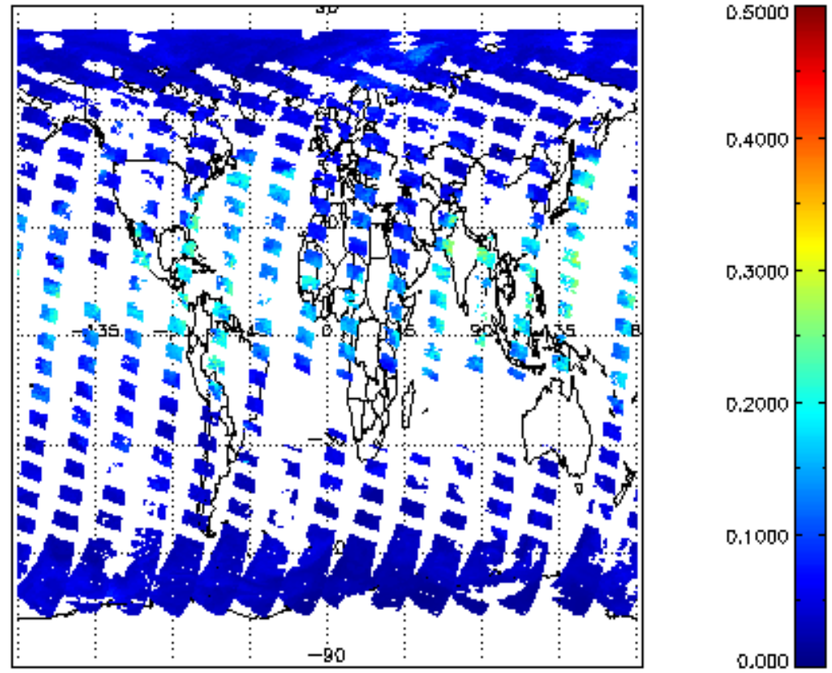

Time trend plot of SCIOL2P_NADUVBH2O_vcd_err [g/cm2].
Value
0.5
0.4
0.3
0.2
0.1
0.0
000744 110905
014734 110905
032807 110905
050758 110905
064830 110905
082903 110905
100854 110905
114927 110905
132917 110905
150850 110905
164841 110905
183014 110905
201046 110905
215037 110905
233110 110905
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUVBH2O_amf_gr [].
Value
2.0
1.5
1.0
0.5
0.0
000744 110905
014734 110905
032807 110905
050758 110905
064830 110905
082903 110905
100854 110905
114927 110905
132917 110905
150850 110905
164841 110905
183014 110905
201046 110905
215037 110905
233110 110905
Time [HHMMSS, YYMMDD]

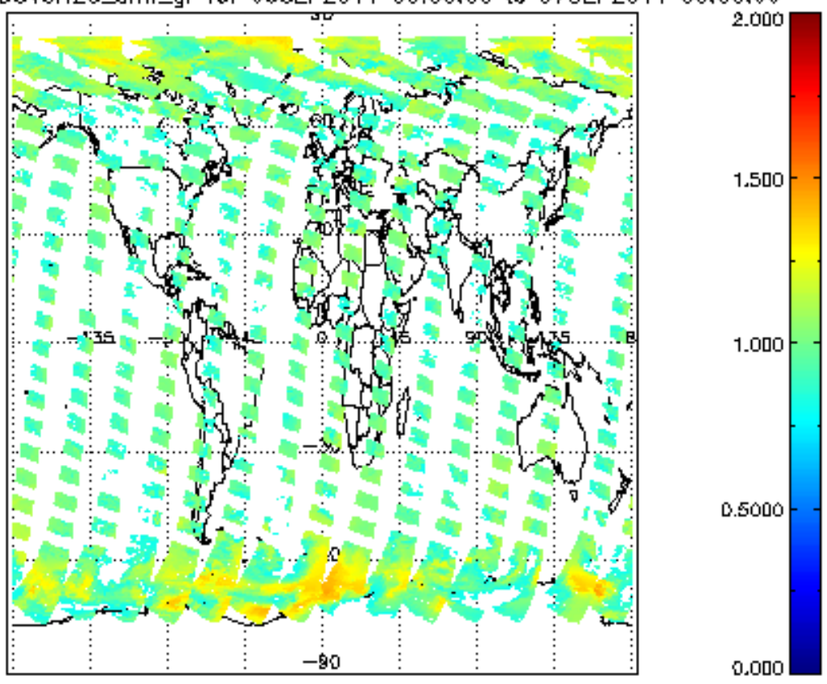
SCIOL2P_NADUV8H2O_vcd for 06SEP2011 00:00:00 to 07SEP2011 00:00:00

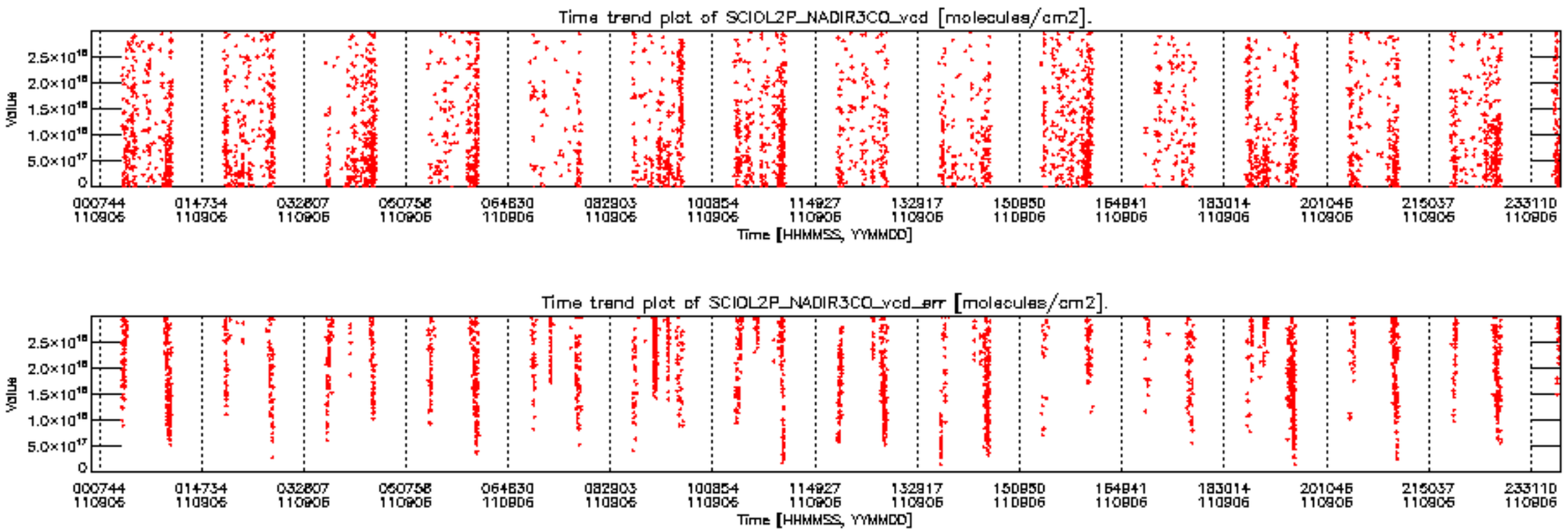


SCIOL2P_NADUV8H2O_vcd_err for 06SEP2011 00:00:00 to 07SEP2011 00:00:00

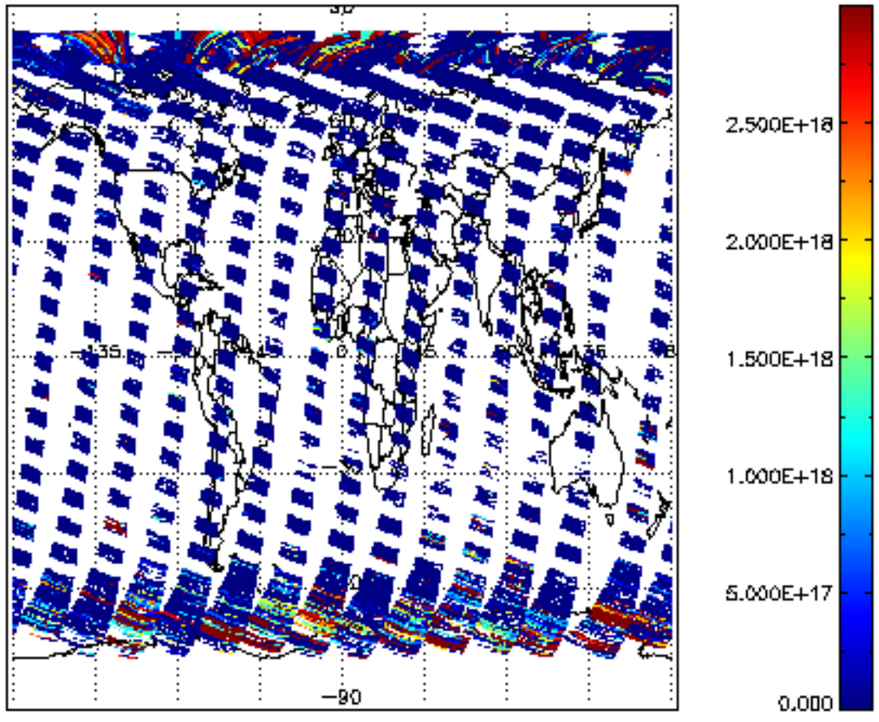


SCIOL2P_NADUV8H2O_amf_gr for 06SEP2011 00:00:00 to 07SEP2011 00:00:00

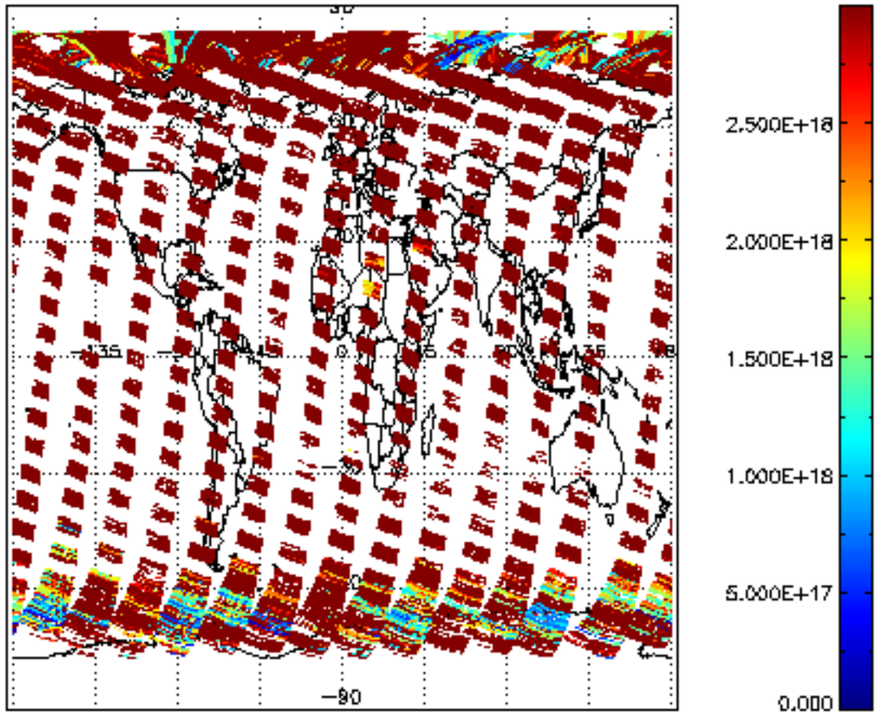


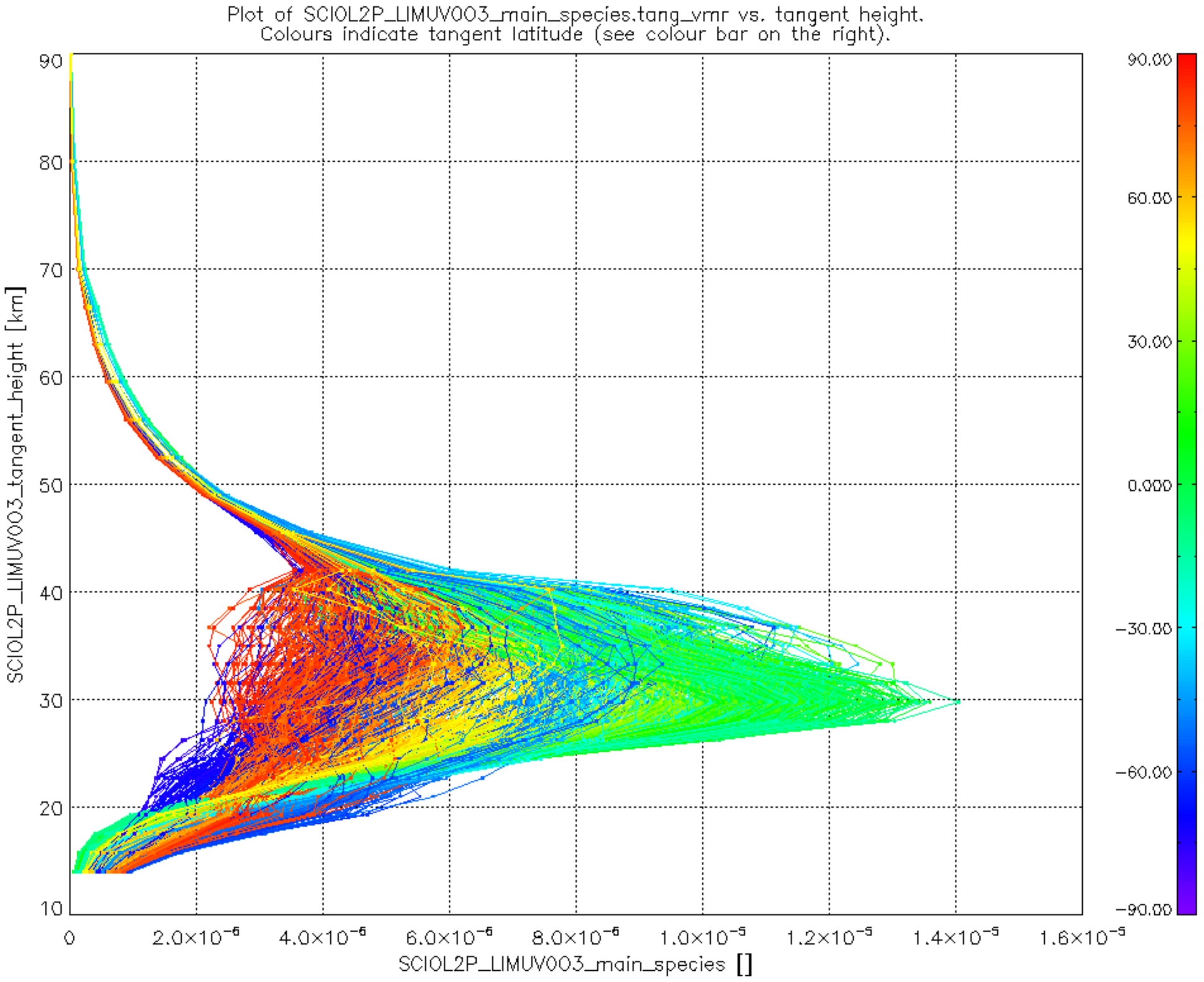

Time trend plot of SCIOL2P_NADIR3CO_vcd [molecules/cm2].
Value
2.5×10^18
2.0×10^18
1.5×10^18
1.0×10^18
5.0×10^17
0
000744 110905
014734 110905
032807 110905
050758 110905
064830 110905
082903 110905
100854 110905
114927 110905
132917 110905
150850 110905
164841 110906
183014 110906
201046 110905
215037 110905
233110 110906
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
000744 110905
014734 110905
032807 110905
050758 110905
064830 110905
082903 110905
100854 110905
114927 110905
132917 110905
150850 110905
164841 110906
183014 110906
201046 110905
215037 110905
233110 110906
Time [HHMMSS, YYMMDD]

SCIOL2P_NADIR3CO_vcd for 06SEP2011 00:00:00 to 07SEP2011 00:00:00

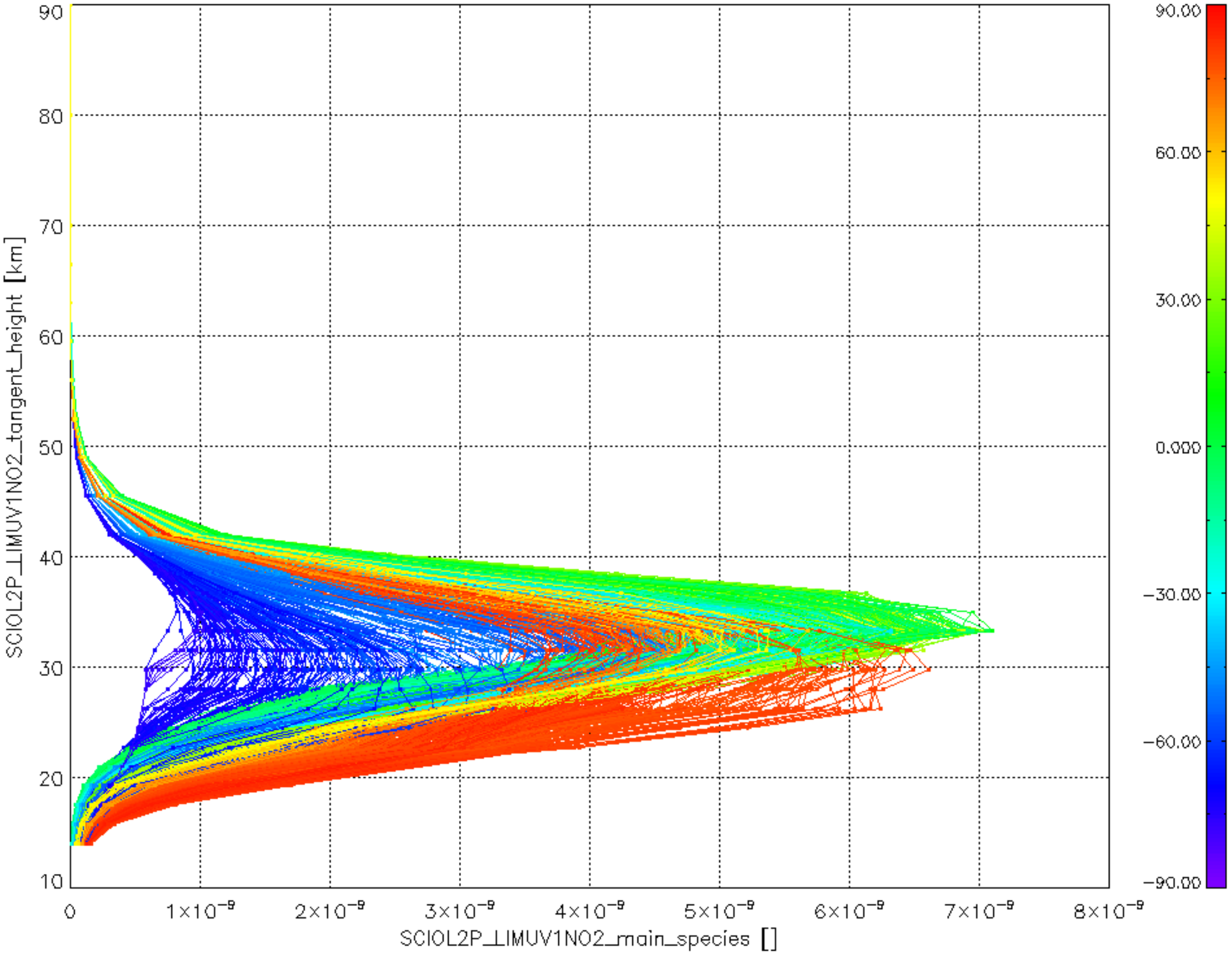


SCIOL2P_NADIR3CO_vcd_err for 06SEP2011 00:00:00 to 07SEP2011 00:00:00




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
2.0×10⁻⁶
4.0×10⁻⁶
6.0×10⁻⁶
8.0×10⁻⁶
1.0×10⁻⁵
1.2×10⁻⁵
1.4×10⁻⁵
1.6×10⁻⁵
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).