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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	31JUL2011 05:06:00
Data source version	SCIA-OL/5.01-N
Processing scope for products	25JUL2011 00:00:00 to 26JUL2011 00:00:00
Start time of first product within scope	24JUL2011 23:54:27
Stop time of last product within scope	26JUL2011 00:16:36
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__2PNDPA20110724_235427_000035303105_00001_49153_4251.N1	24JUL2011 23:54:27	25JUL2011 00:53:17	0	GOOD
1	SCI_OL__2PNDPA20110725_013441_000088193105_00002_49154_4253.N1	25JUL2011 01:34:41	25JUL2011 04:01:40	0	GOOD
2	SCI_OL__2PNDPA20110725_031455_000028053105_00003_49155_4252.N1	25JUL2011 03:14:55	25JUL2011 04:01:40	0	GOOD
3	SCI_OL__2PNDPA20110725_040144_000061873105_00004_49156_4254.N1	25JUL2011 04:01:44	25JUL2011 05:44:51	0	GOOD
4	SCI_OL__2PNDPA20110725_054549_000060253105_00005_49157_4255.N1	25JUL2011 05:45:49	25JUL2011 07:26:14	0	GOOD

5	SCI_OL__2PNDPA20110725_072618_000039783105_00006_49158_4256.N1	25JUL2011 07:26:18	25JUL2011 08:32:36	0	GOOD
6	SCI_OL__2PNDPA20110725_083240_000060103105_00007_49159_4257.N1	25JUL2011 08:32:40	25JUL2011 10:12:50	0	GOOD
7	SCI_OL__2PNDPA20110725_101402_000058733105_00008_49160_4258.N1	25JUL2011 10:14:02	25JUL2011 11:51:56	0	GOOD
8	SCI_OL__2PNDPA20110725_115159_000059563105_00009_49161_4259.N1	25JUL2011 11:51:59	25JUL2011 13:31:16	0	GOOD
9	SCI_OL__2PNDPA20110725_133228_000057503105_00010_49162_4260.N1	25JUL2011 13:32:28	25JUL2011 15:08:19	0	GOOD
10	SCI_OL__2PNDPA20110725_150931_000058333105_00011_49163_4261.N1	25JUL2011 15:09:31	25JUL2011 16:46:44	0	GOOD
11	SCI_OL__2PNDPA20110725_164742_000057073105_00012_49164_4262.N1	25JUL2011 16:47:42	25JUL2011 18:22:50	0	GOOD
12	SCI_OL__2PNDPA20110725_182253_000059563105_00013_49165_4263.N1	25JUL2011 18:22:53	25JUL2011 20:02:10	0	GOOD
13	SCI_OL__2PNDPA20110725_200213_000032453105_00014_49166_4264.N1	25JUL2011 20:02:13	25JUL2011 20:56:19	0	GOOD
14	SCI_OL__2PNDPA20110725_213731_000035163105_00014_49166_4265.N1	25JUL2011 21:37:31	25JUL2011 22:36:08	0	GOOD
15	SCI_OL__2PNDPA20110725_231746_000035303105_00015_49167_4266.N1	25JUL2011 23:17:46	26JUL2011 00:16:36	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: 170337

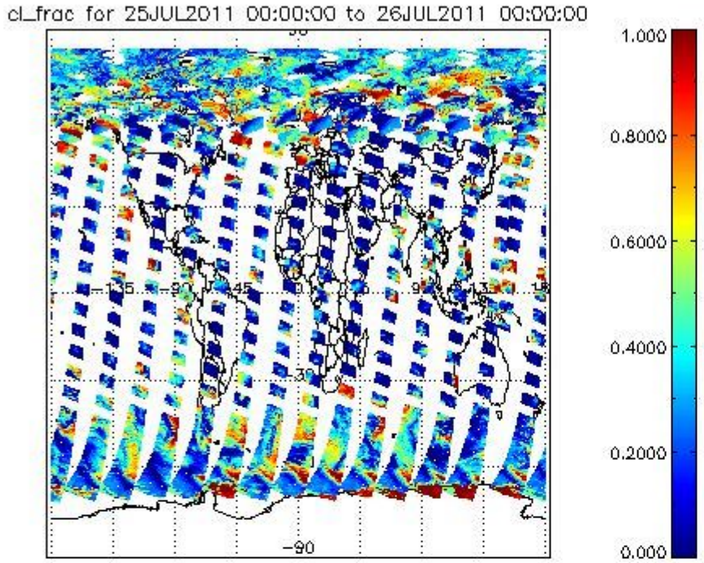
Total number of cloud data DSRs with good quality flag (=0): 170337 (100.0 %)

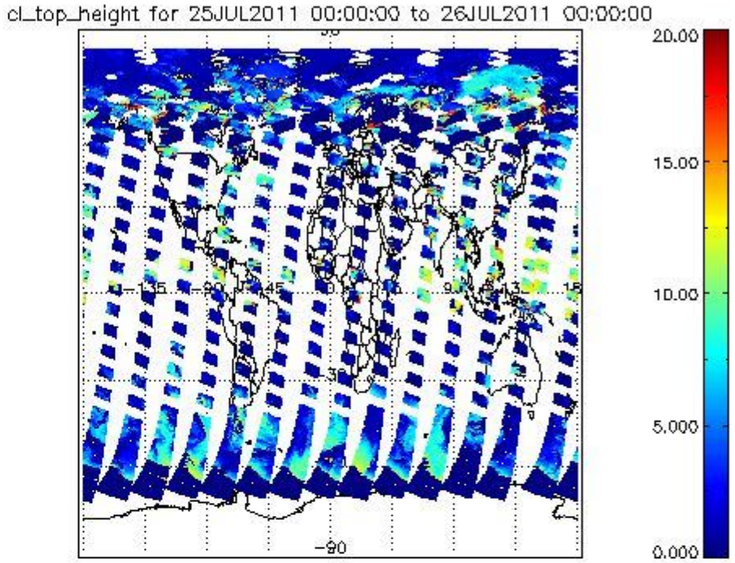
Parameter	#valid	Mean	Median	Min	Max	Stddev	Unit
QUALITY_FLAG	170337	0.0000	0.0000	0.0000	0.0000	0.0000	
INTEGR_TIME	170337	0.16595	0.12500	0.12500	0.25000	0.058666	s
CL_FRAC	170337	0.33030	0.28164	0.0000	1.0000	0.27674	
CL_FRAC_ERR	170337	0.0000	0.0000	0.0000	0.0000	0.0000	%
PMD_READ	170337	5.3103	4.0000	4.0000	8.0000	1.8773	
PMD_READ_CL[0]	170337	0.27052	0.0000	0.0000	8.0000	1.1020	-
PMD_READ_CL[1]	170337	1.3722	0.0000	0.0000	8.0000	2.5197	-
CL_TOP_HEIGHT	132370	3.6023	1.7714	0.0000	17.000	3.7768	km
CL_TOP_HEIGHT_ERR	0	---	---	---	---	---	---
CL_OPT_DEPTH	132370	64.138	100.00	0.0000	101.00	43.027	km
CL_OPT_DEPTH_ERR	0	---	---	---	---	---	---
CL_TYPE_FLAGS	170337	11100000	11100000	11100000	11100000	0.0000	
CLOUD_FLAGS	170337	11001101	11000100	11000000	11100000	3639.2	
AERO_ABSO_IND	170337	0.21141	0.0000	0.0000	5.3368	0.48915	
AERO_IND_DIAG	170337	0.0000	0.0000	0.0000	0.0000	0.0000	
AERO_FLAGS	170337	01010011	00000000	00000000	11000000	24354.	

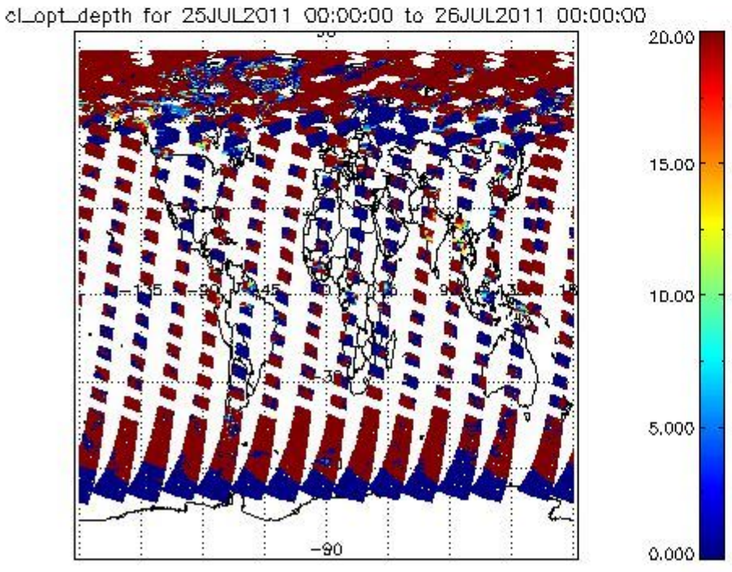
Time and geolocation plots:

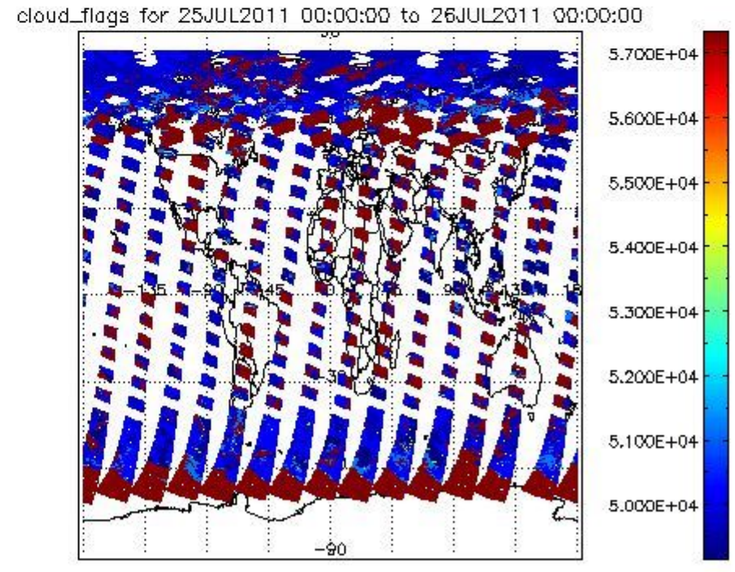
Plots are available for the following parameters:

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









2.2.2 Nadir

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

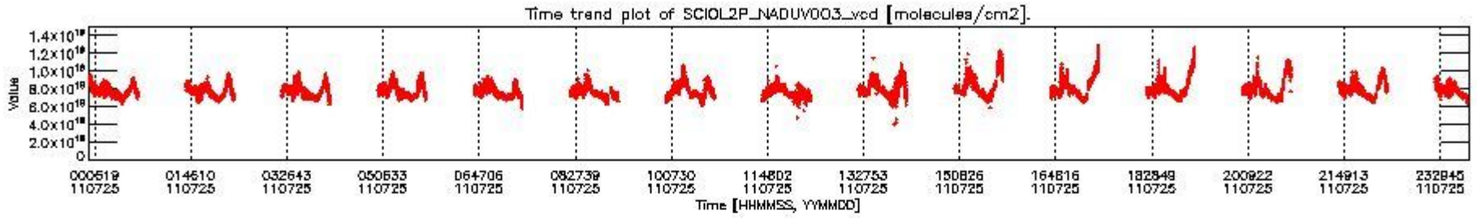
The following data items are currently included into this section:

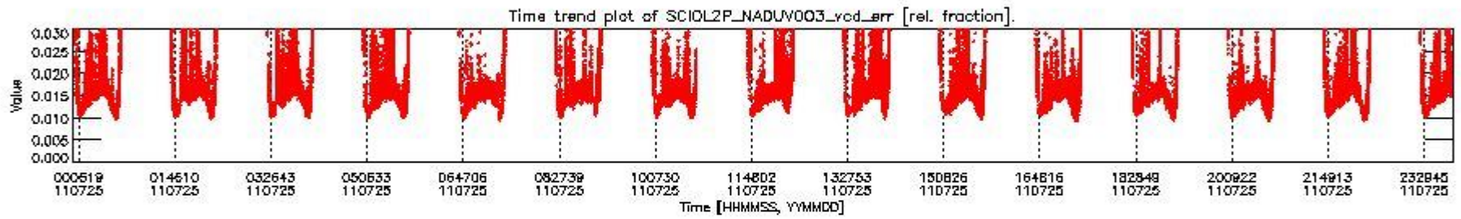
Number	Data item ID
0	SCIOL2P_NADUV0O3_vcd
1	SCIOL2P_NADUV0O3_vcd_err
2	SCIOL2P_NADUV0O3_amf_gr

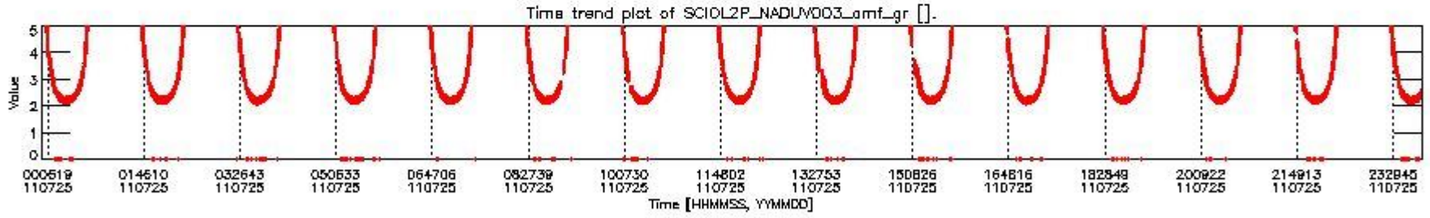
3	SCIOL2P_NADUV0O3_amf_cl
4	SCIOL2P_NADUV1NO2_vcd
5	SCIOL2P_NADUV1NO2_vcd_err
6	SCIOL2P_NADUV1NO2_amf_gr
7	SCIOL2P_NADUV1NO2_amf_cl
8	SCIOL2P_NADUV3BRO_vcd
9	SCIOL2P_NADUV3BRO_vcd_err
10	SCIOL2P_NADUV3BRO_amf_gr
11	SCIOL2P_NADUV3BRO_amf_cl
12	SCIOL2P_NADUV5SO2_vcd
13	SCIOL2P_NADUV5SO2_vcd_err
14	SCIOL2P_NADUV5SO2_amf_gr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

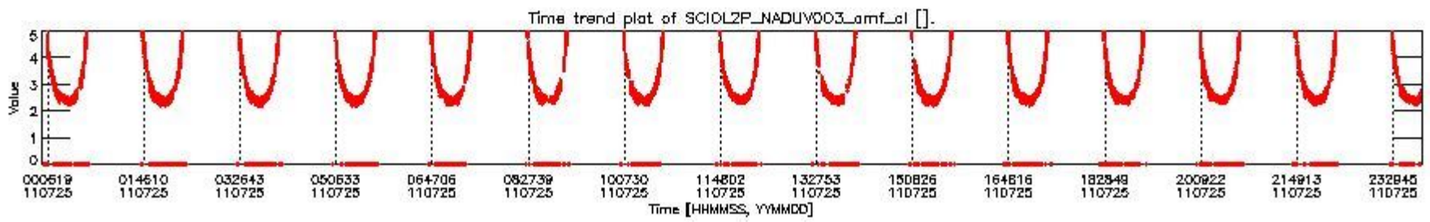
Data is presented both in time trend plots and world map plots, in order to show variations with time and geolocation. The vertical dotted lines in the time trend plots indicate orbits. The orbit times on the X-axis are estimated sensing_start time as suggested by the product sensing_start time in the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

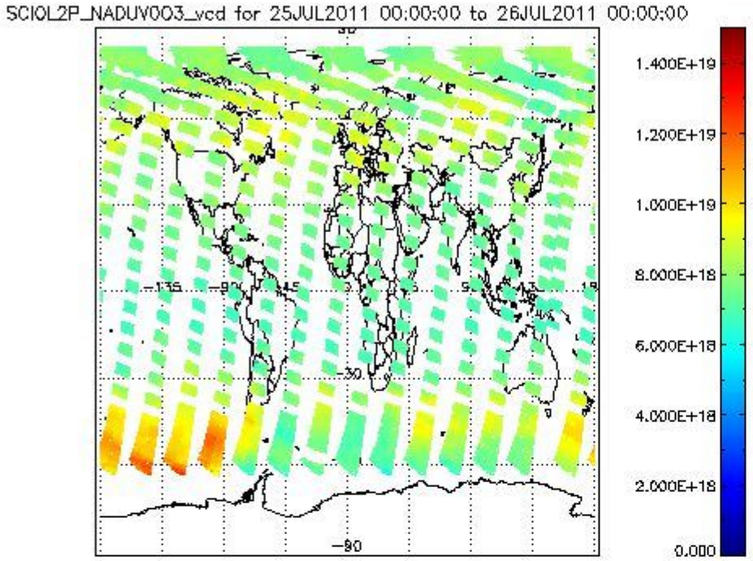
2.2.2.1 O3 (UV0)

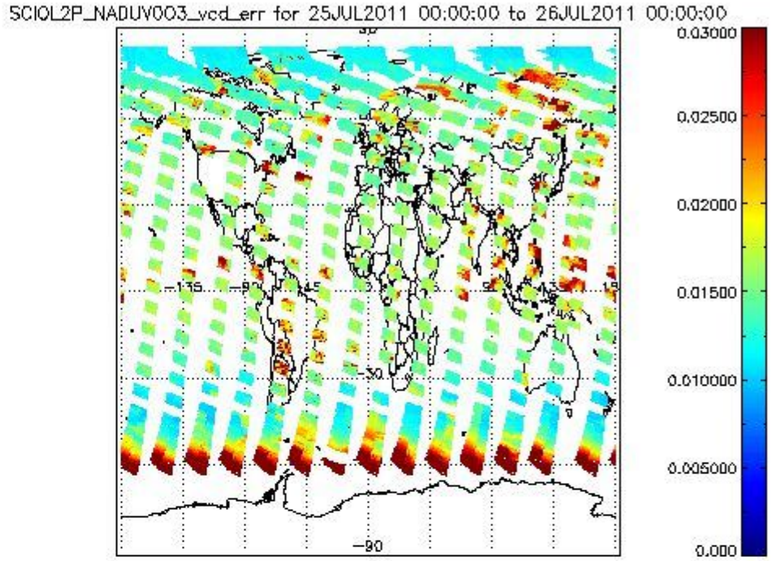

Time trend plot of SCIOL2P_NADUV003_vcd [molecules/cm2].
Value
1.4x10^18
1.2x10^18
1.0x10^18
8.0x10^18
6.0x10^18
4.0x10^18
2.0x10^18
0
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232845 110725
Time [HHMMSS, YYMMDD]

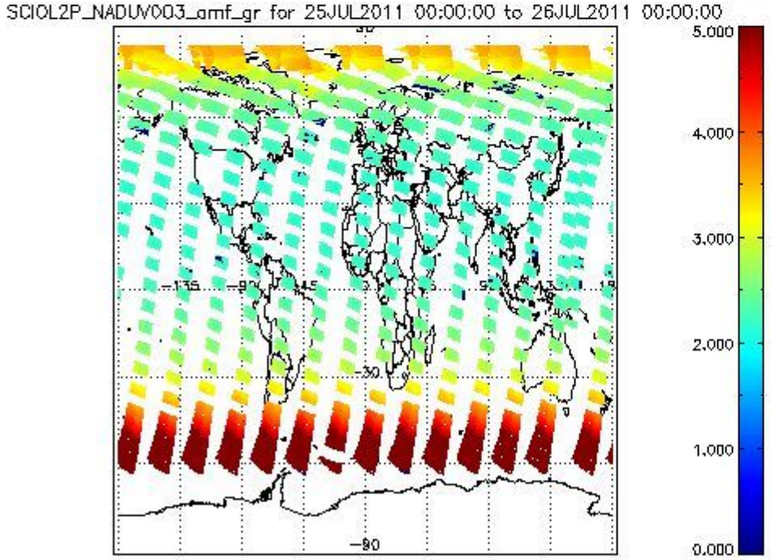

Time trend plot of SCIOL2P_NADUV003_vcd_err [rel. fraction].
Value
0.030
0.025
0.020
0.015
0.010
0.005
0.000
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232845 110725
Time [HHMMSS, YYMMDD]

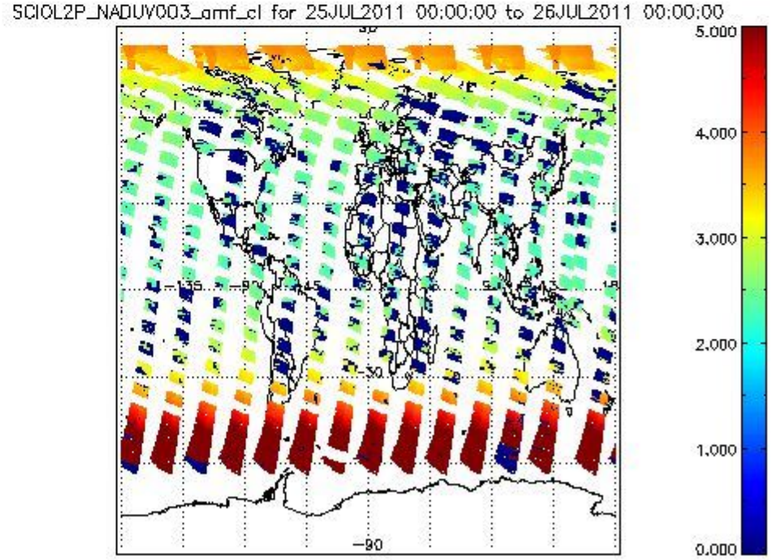

Time trend plot of SCIOL2P_NADUV003_amf_gr [].
Value
5
4
3
2
1
0
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232845 110725
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV003_amf_cl [].
Value
5
4
3
2
1
0
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232845 110725
Time [HHMMSS, YYMMDD]

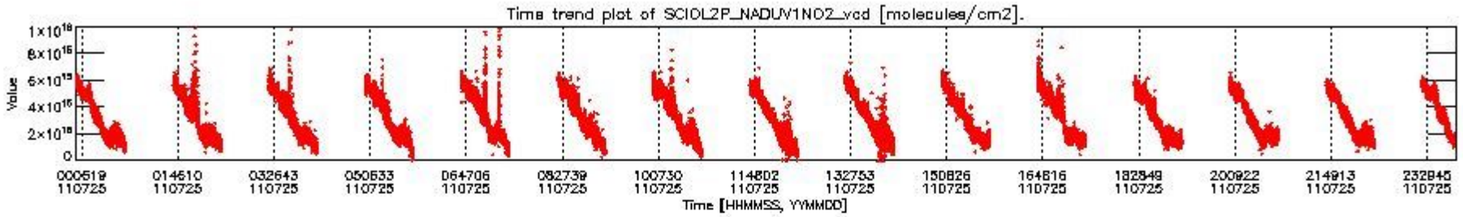

SCIOL2P_NADUV003_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
1.400E+19
1.200E+19
1.000E+19
8.000E+18
6.000E+18
4.000E+18
2.000E+18
0.000
−135
−90
−45
0
45
90
135
180
30
−30
−90

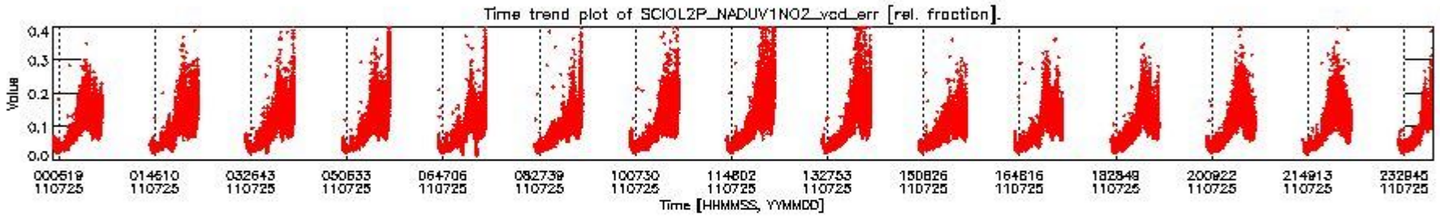

SCIOL2P_NADUV003_vcd_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
0.03000
0.02500
0.02000
0.01500
0.010000
0.005000
0.000
−135
−90
−45
0
45
90
135
180
30
−30
−90

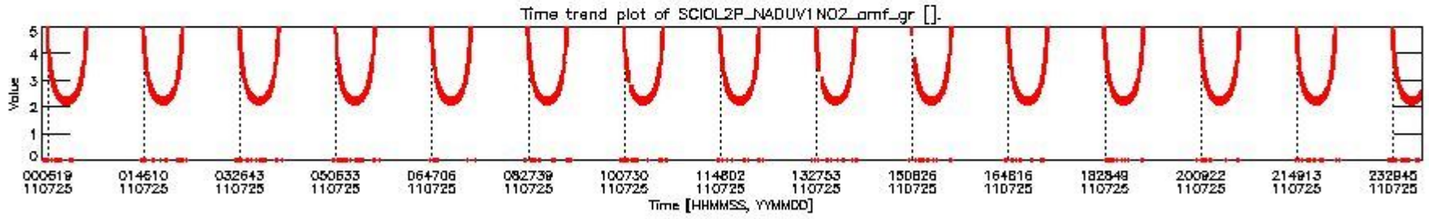

SCIOL2P_NADUV003_amf_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
−135
−90
−45
0
45
90
135
180
30
−30
−90

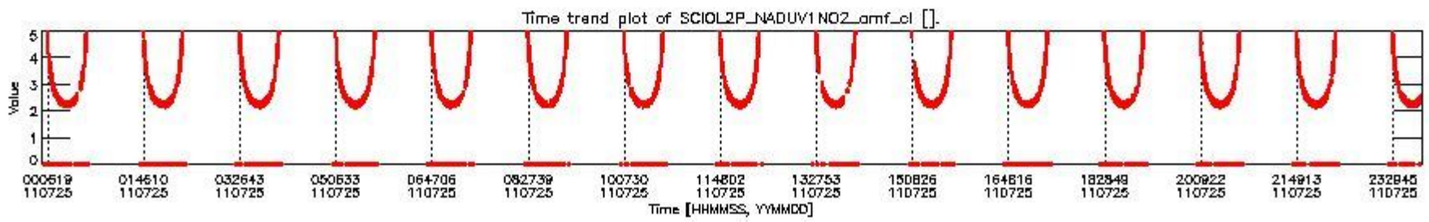

SCIOL2P_NADUV003_amf_cl for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
−135
−90
−45
0
45
90
135
180
30
−30
−90

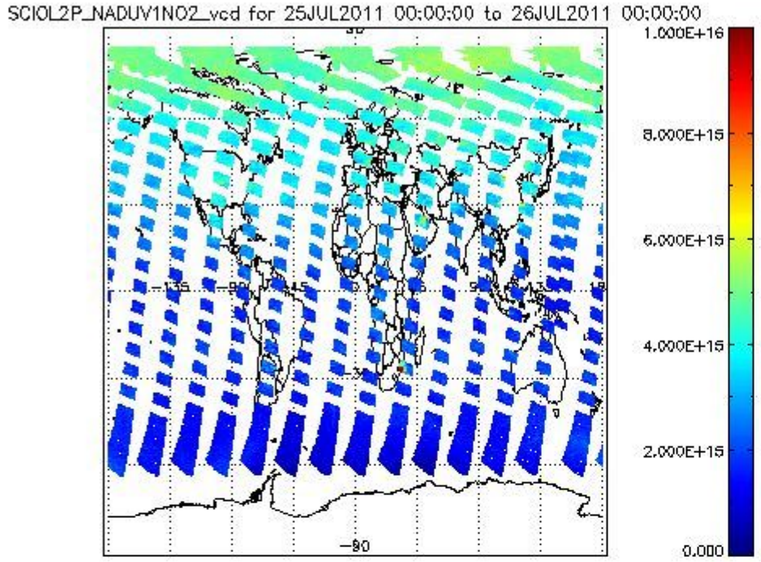
2.2.2.2 NO2 (UV1)

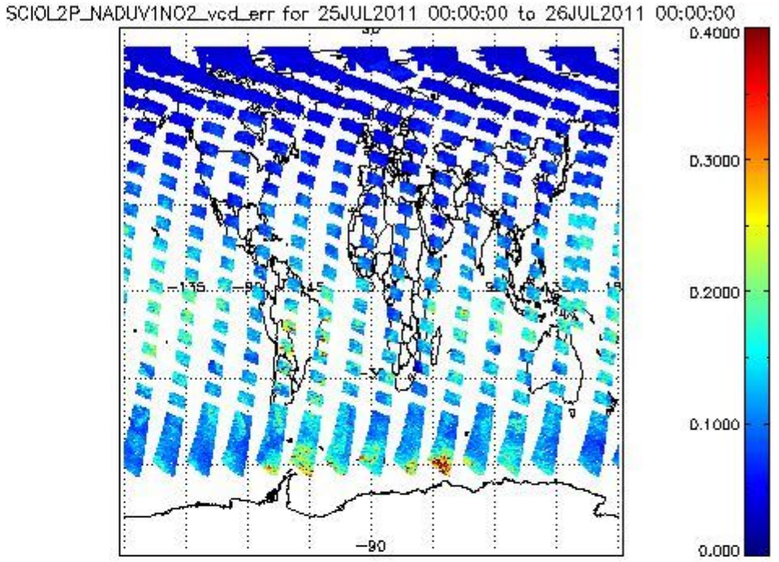

Time trend plot of SCIOL2P_NADUV1NO2_vcd [molecules/cm2].
Value
Time [HHMMSS, YYMMDD]

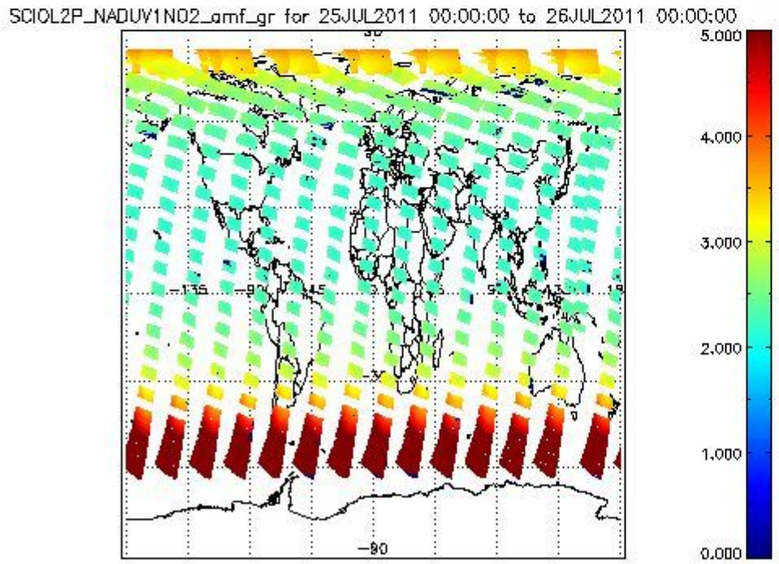

Time trend plot of SCIOL2P_NADUV1NO2_vcd_err [rel. fraction].
Value
Time [HHMMSS, YYMMDD]

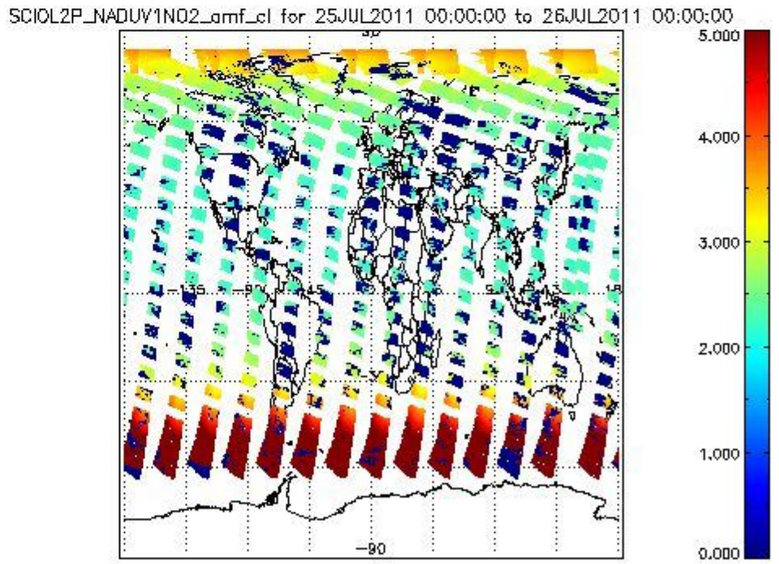

Time trend plot of SCIOL2P_NADUV1NO2_amf_gr [].
Value
Time [HHMMSS, YYMMDD]


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

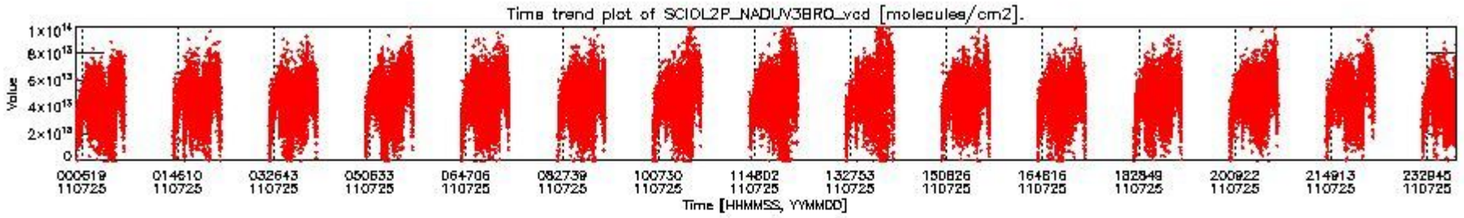

SCIOL2P_NADUV1NO2_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
1.000E+16
8.000E+15
6.000E+15
4.000E+15
2.000E+15
0.000
-90

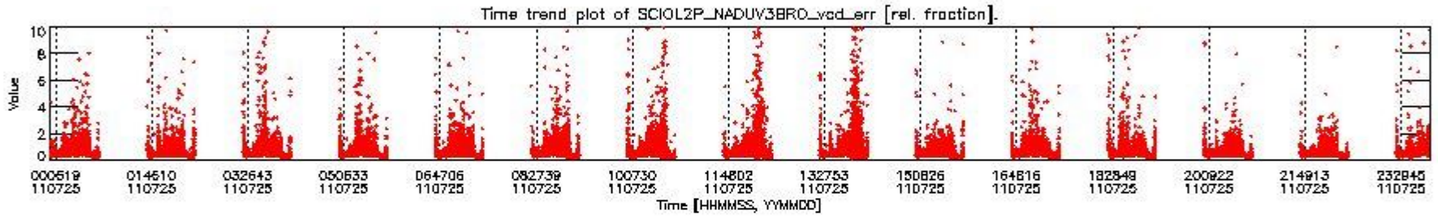

SCIOL2P_NADUV1NO2_vcd_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
0.4000
0.3000
0.2000
0.1000
0.000
-90

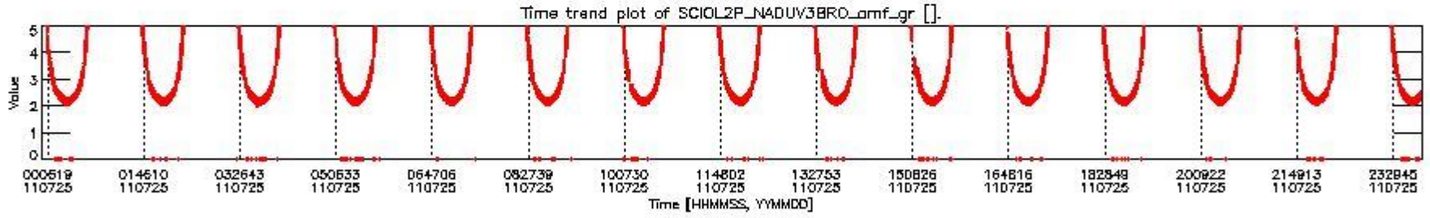

SCIOL2P_NADUV1NO2_amf_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90

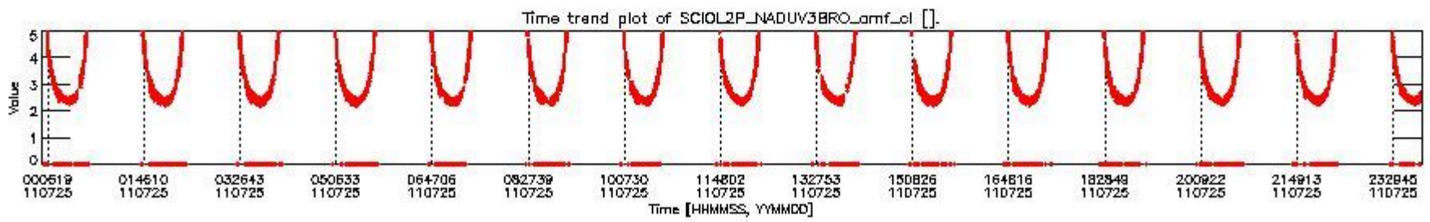

SCIOL2P_NADUV1NO2_amf_cl for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90

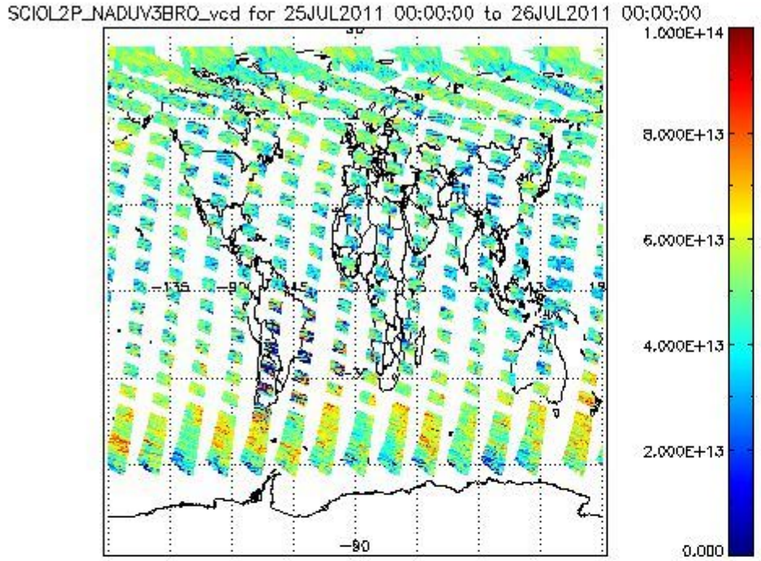
2.2.2.3 BrO (UV3)

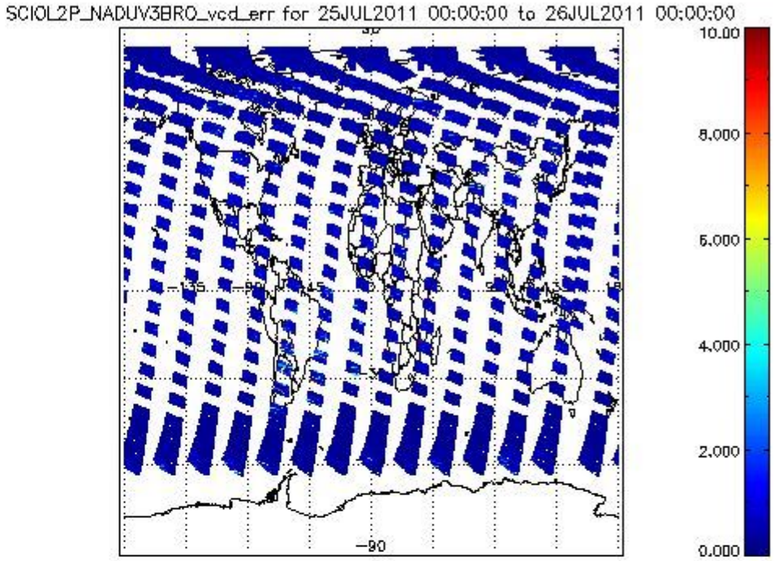

Time trend plot of SCIOL2P_NADUV3BRO_vcd [molecules/cm2].
Value
Time [HHMMSS, YYMMDD]

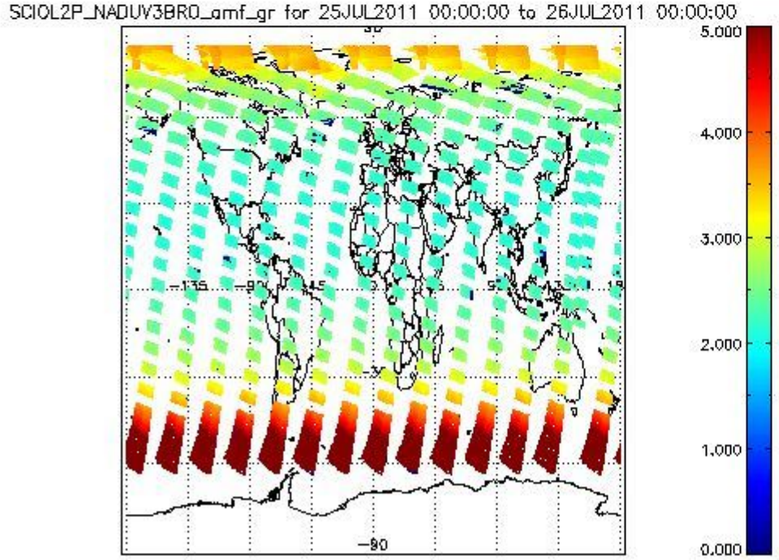

Time trend plot of SCIOL2P_NADUV3BRO_vcd_err [rel. fraction].
Value
Time [HHMMSS, YYMMDD]

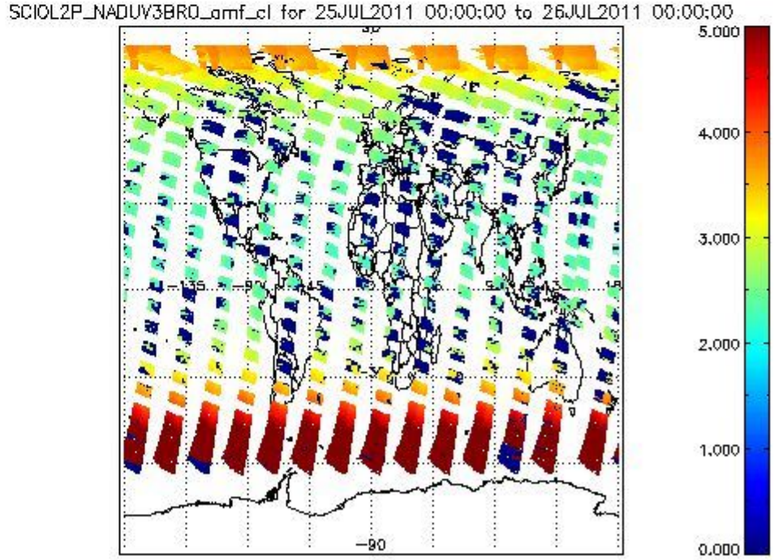

Time trend plot of SCIOL2P_NADUV3BRO_amf_gr [].
Value
Time [HHMMSS, YYMMDD]


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

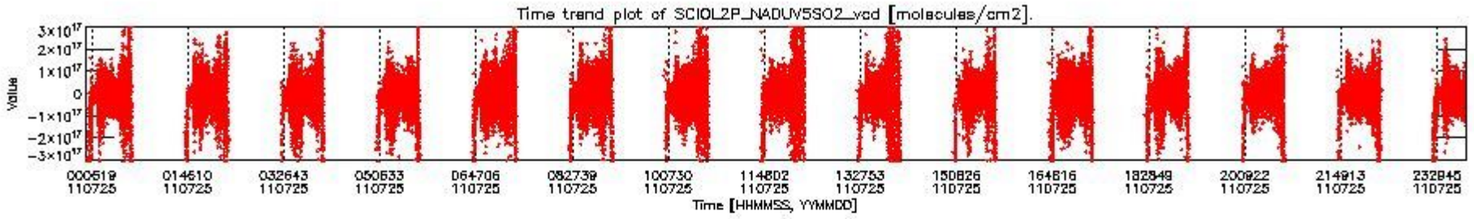

SCIOL2P_NADUV3BRO_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
1.000E+14
8.000E+13
6.000E+13
4.000E+13
2.000E+13
0.000
-90

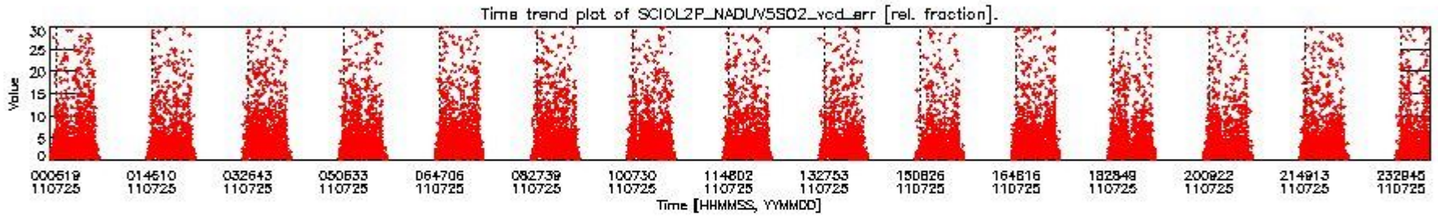

SCIOL2P_NADUV3BRO_vcd_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
10.00
8.000
6.000
4.000
2.000
0.000
-90

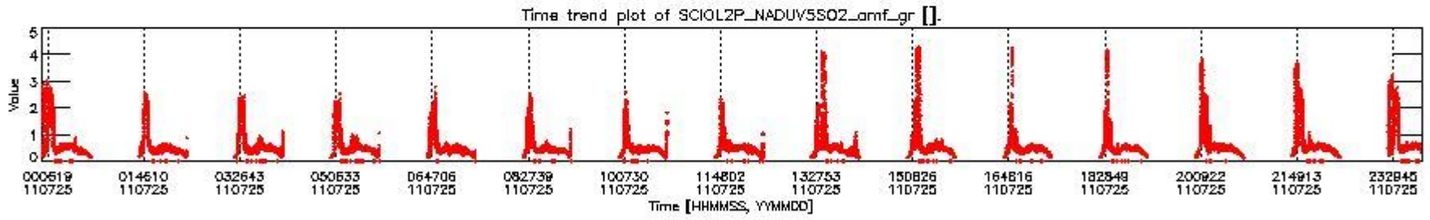

SCIOL2P_NADUV3BRO_amf_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90

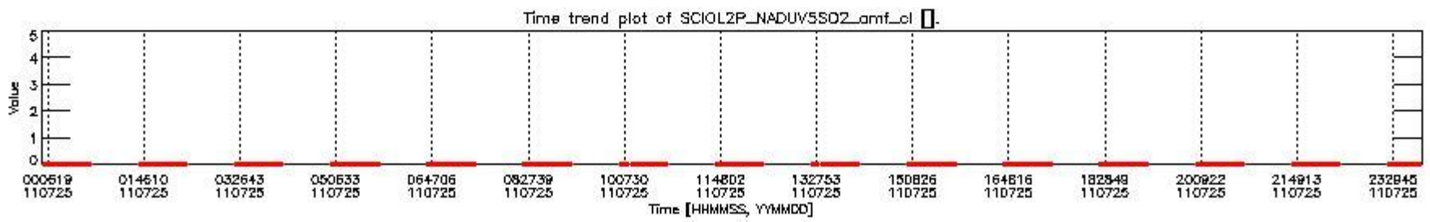

SCIOL2P_NADUV3BRO_amf_cl for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90

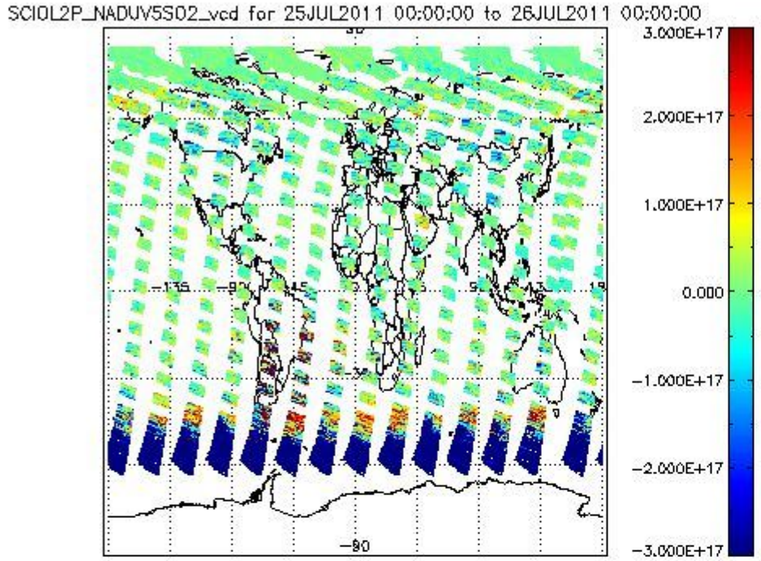
2.2.2.4 SO2 (UV5)

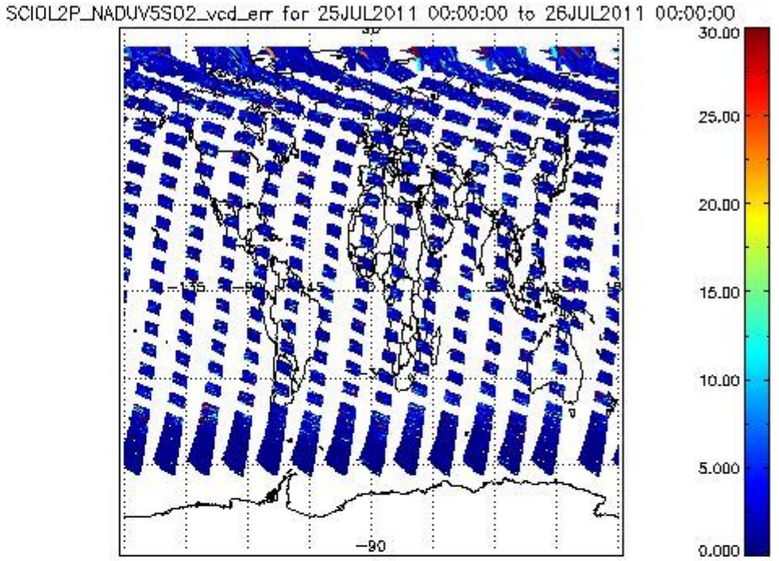

Time trend plot of SCIOL2P_NADUV5SO2_vcd [molecules/cm2].
Value
3x10^17
2x10^17
1x10^17
0
-1x10^17
-2x10^17
-3x10^17
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232845 110725
Time [HHMMSS, YYMMDD]

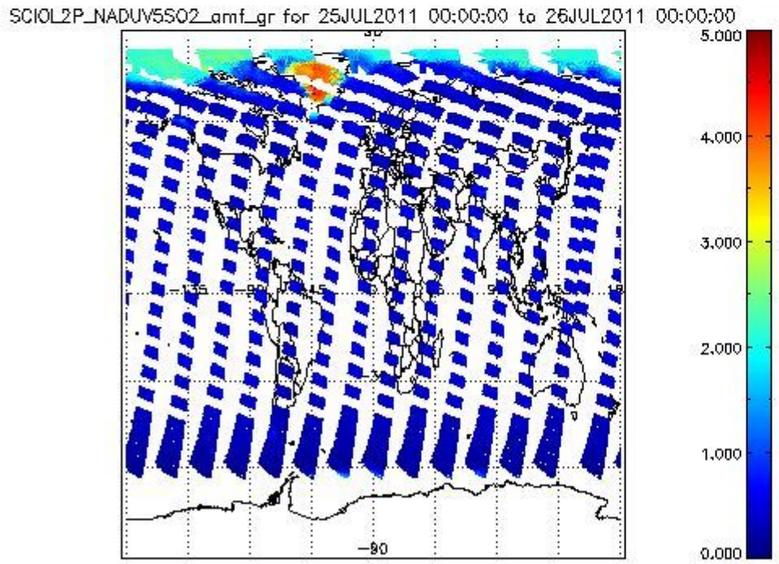

Time trend plot of SCIOL2P_NADUV5SO2_vcd_err [rel. fraction].
Value
30
25
20
15
10
5
0
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232845 110725
Time [HHMMSS, YYMMDD]

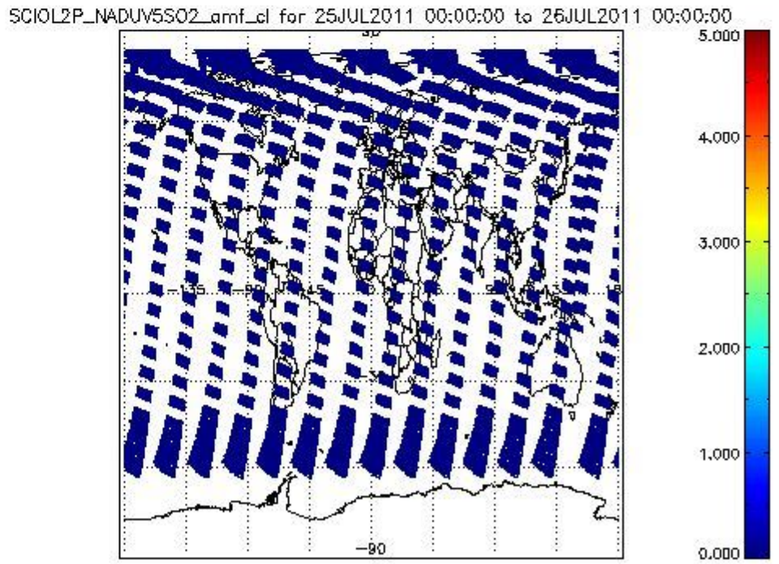

Time trend plot of SCIOL2P_NADUV5SO2_amf_gr [].
Value
5
4
3
2
1
0
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232845 110725
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV5SO2_amf_cl [].
Value
5
4
3
2
1
0
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232845 110725
Time [HHMMSS, YYMMDD]

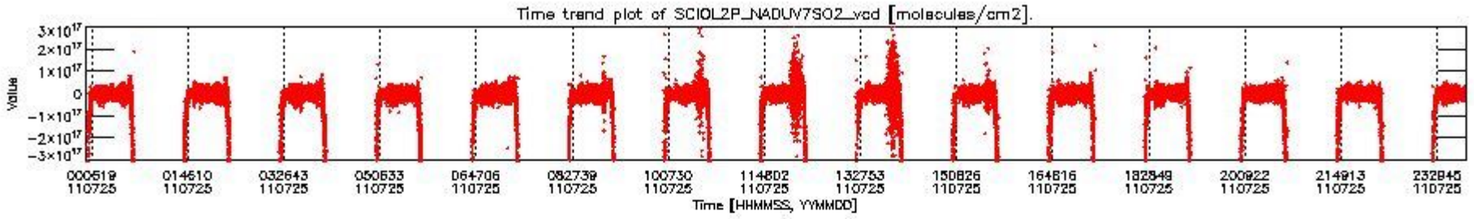

SCIOL2P_NADUV5SO2_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
3.000E+17
2.000E+17
1.000E+17
0.000
-1.000E+17
-2.000E+17
-3.000E+17
-90

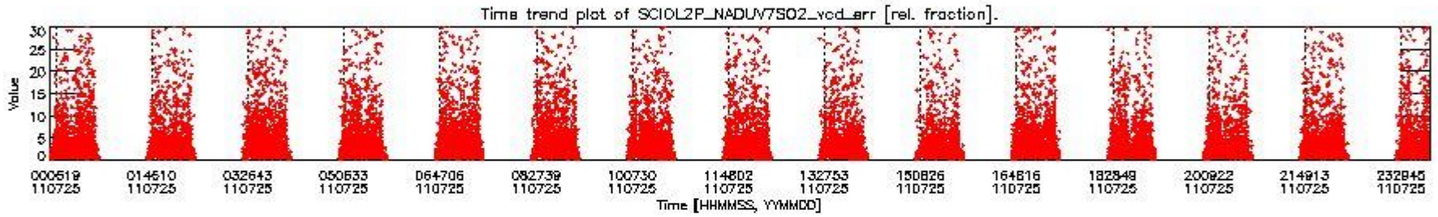

SCIOL2P_NADUV5SO2_vcd_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
-90

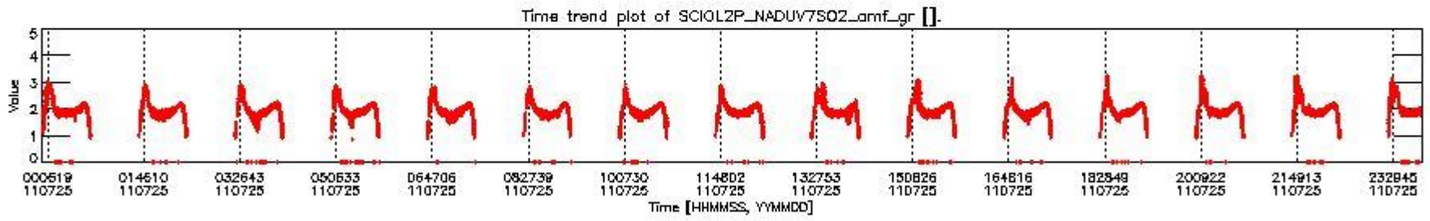

SCIOL2P_NADUV5SO2_amf_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90

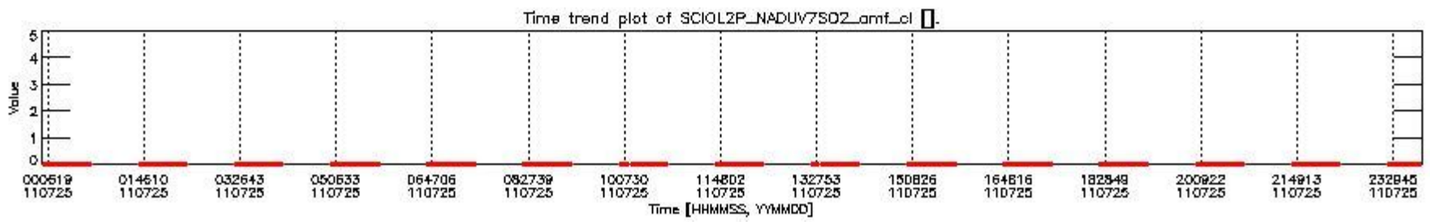

SCIOL2P_NADUV5SO2_amf_cl for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90

2.2.2.5 SO2 (UV7)

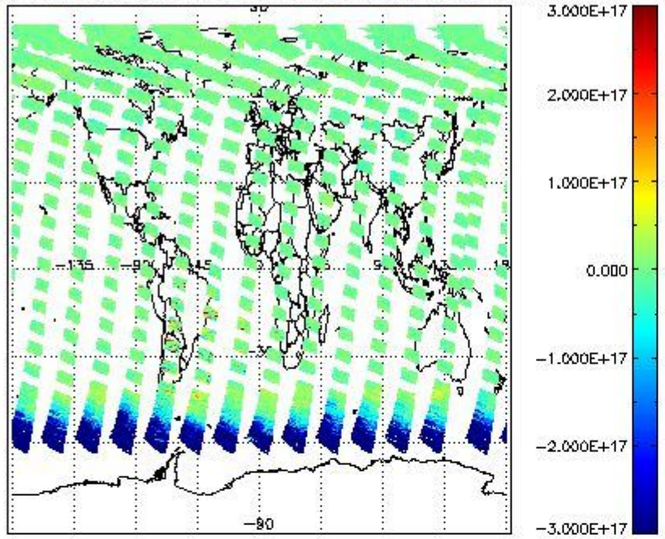

Time trend plot of SCIOL2P_NADUV7SO2_vcd [molecules/cm2].
Value
3x10^17
2x10^17
1x10^17
0
-1x10^17
-2x10^17
-3x10^17
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232845 110725
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV7SO2_vcd_err [rel. fraction].
Value
30
25
20
15
10
5
0
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232845 110725
Time [HHMMSS, YYMMDD]

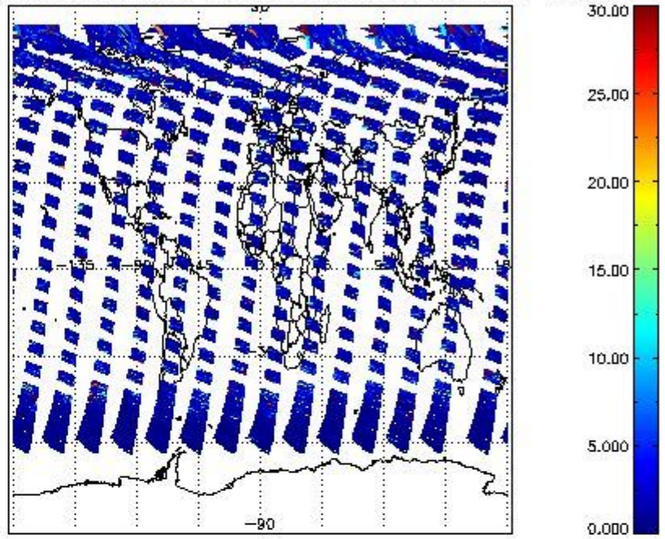

Time trend plot of SCIOL2P_NADUV7SO2_amf_gr [].
Value
5
4
3
2
1
0
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232845 110725
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV7SO2_amf_cl [].
Value
5
4
3
2
1
0
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232845 110725
Time [HHMMSS, YYMMDD]

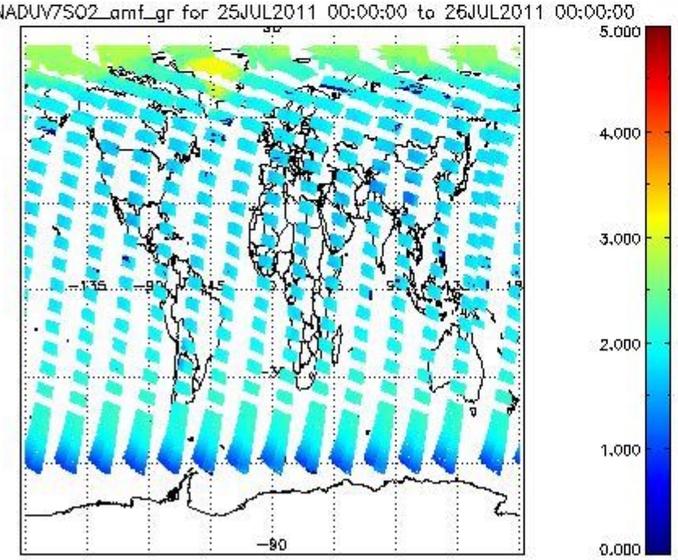
SCIOL2P_NADUV7SO2_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



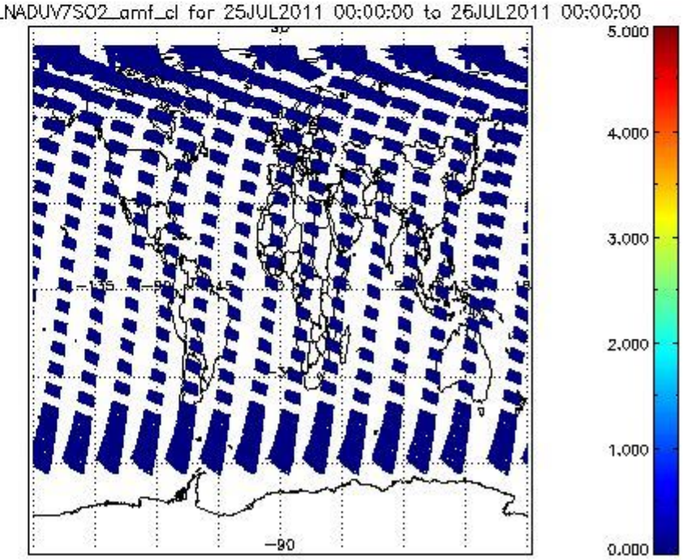
SCIOL2P_NADUV7SO2_vcd_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



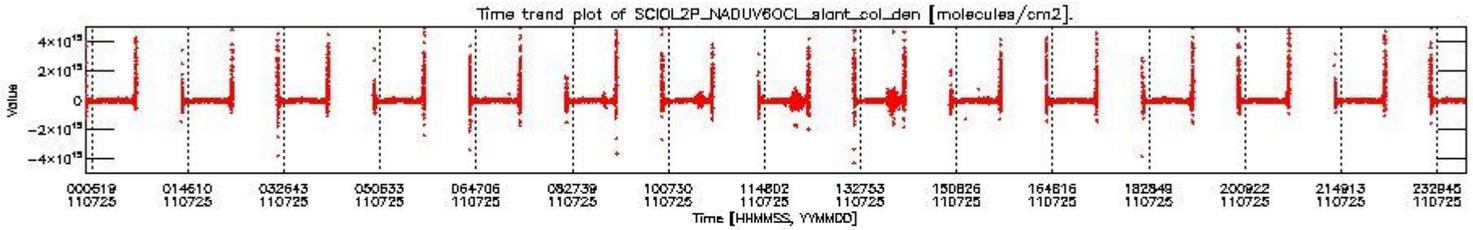
SCIOL2P_NADUV7SO2_amf_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00

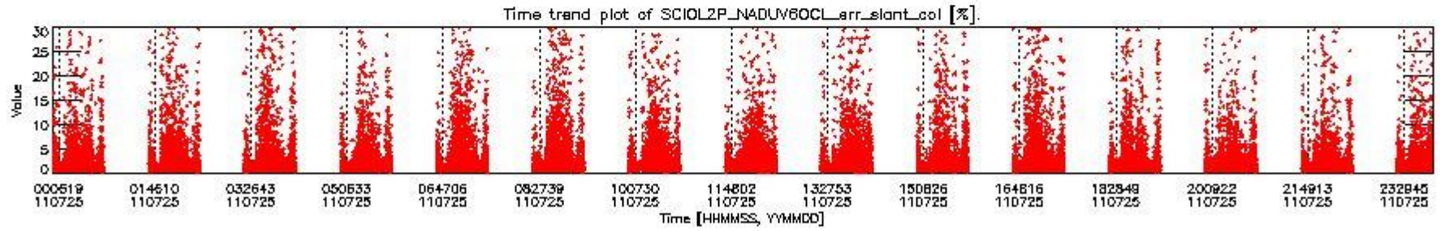


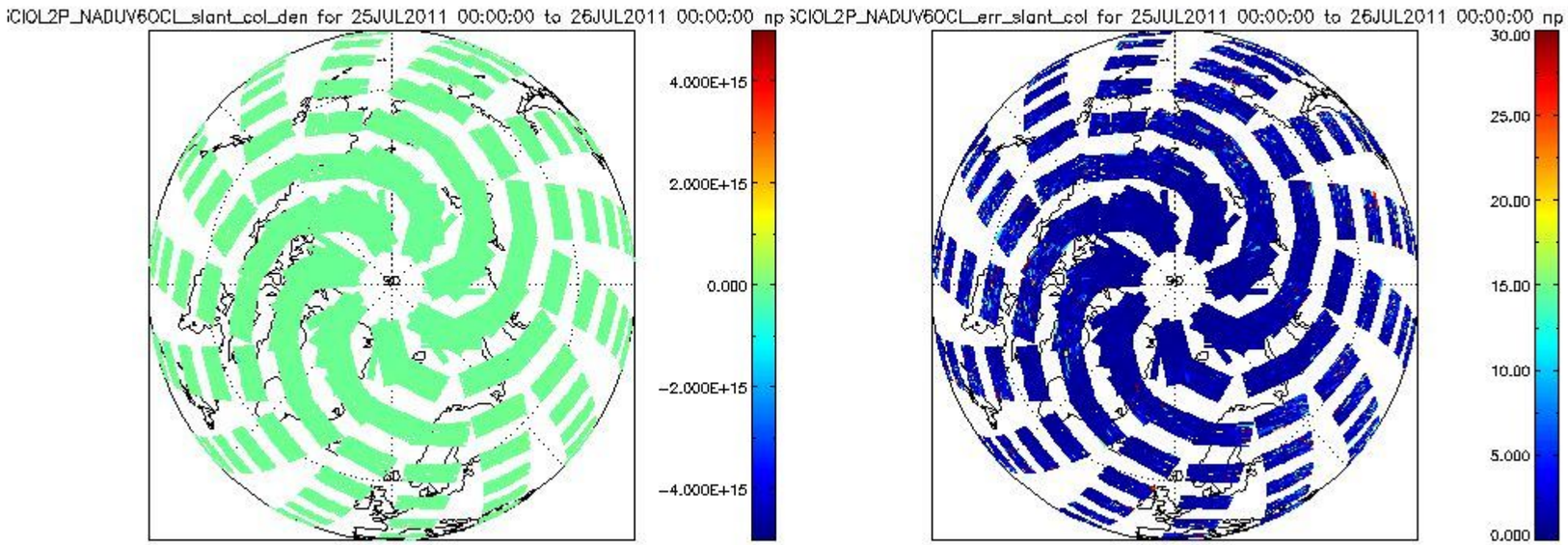
SCIOL2P_NADUV7SO2_amf_cl for 25JUL2011 00:00:00 to 26JUL2011 00:00:00

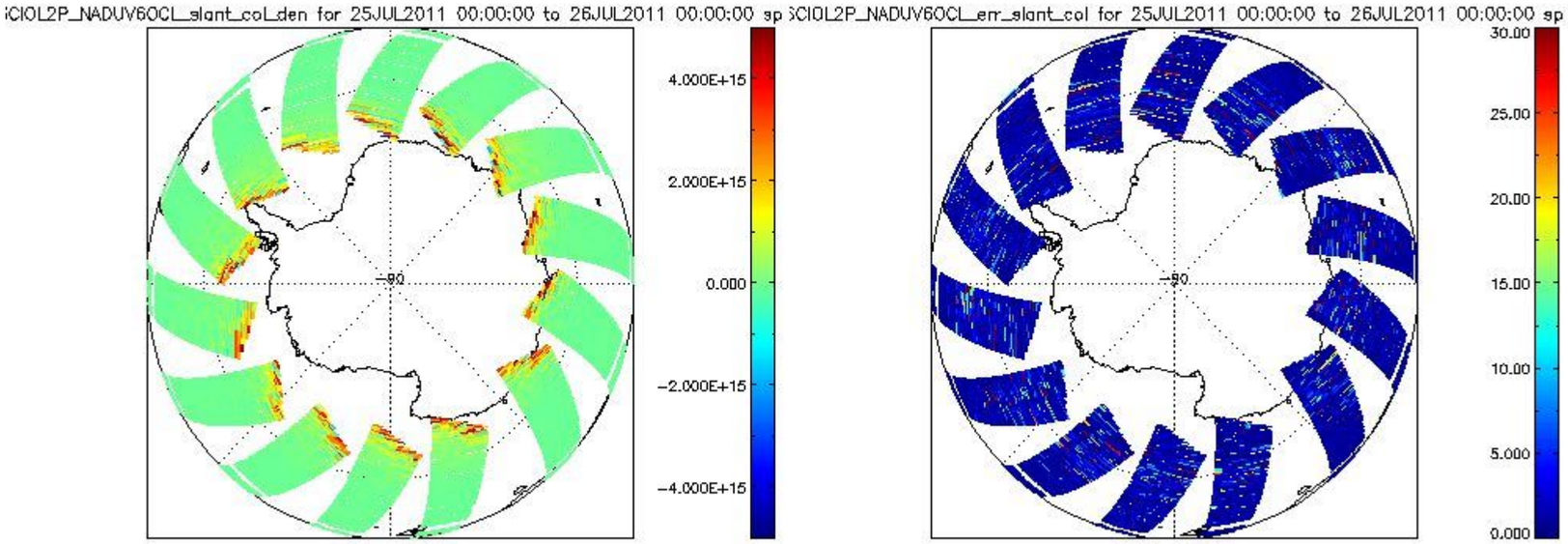


2.2.2.6 OClO (UV6)

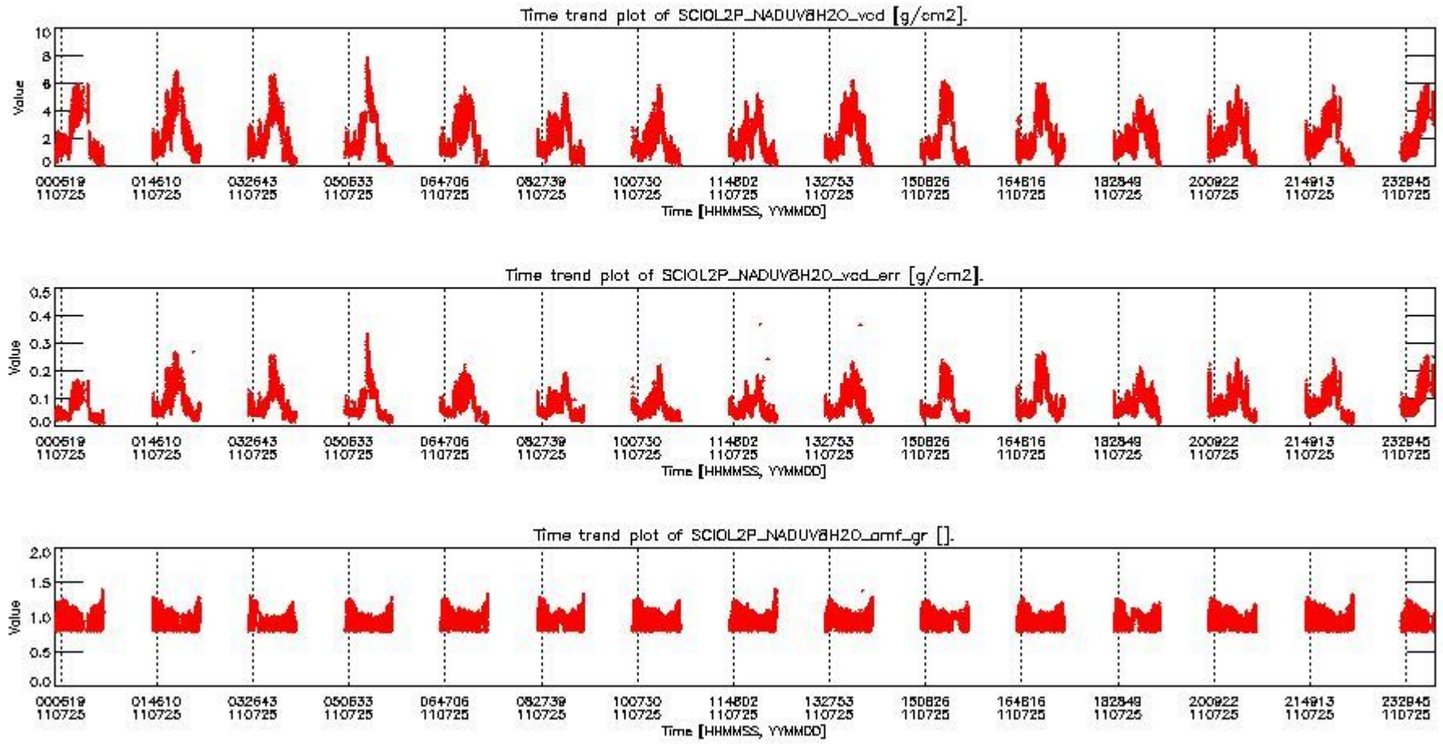

Time trend plot of SCIOL2P_NADUV6OCL_slant_col_den [molecules/cm2].
Value
4×10^15
2×10^15
0
−2×10^15
−4×10^15
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232845 110725
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV6OCL_err_slant_col [%].
Value
30
25
20
15
10
5
0
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232845 110725
Time [HHMMSS, YYMMDD]

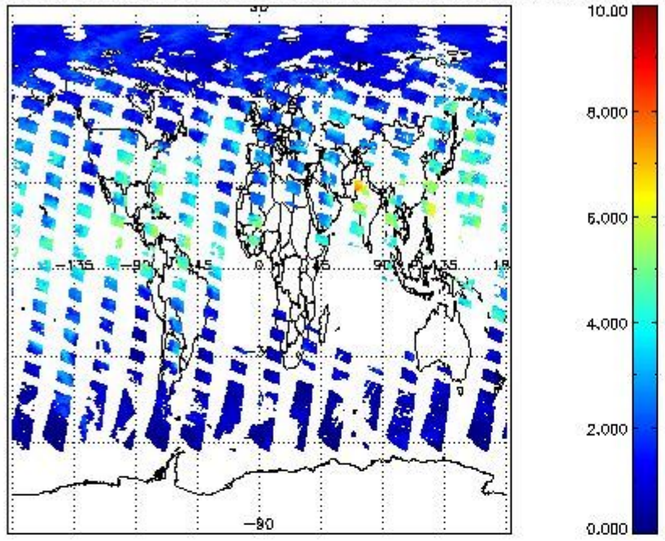

SCIOL2P_NADUV6OCL_slant_col_den for 25JUL2011 00:00:00 to 26JUL2011 00:00:00 np
4.000E+15
2.000E+15
0.000
−2.000E+15
−4.000E+15
SCIOL2P_NADUV6OCL_err_slant_col for 25JUL2011 00:00:00 to 26JUL2011 00:00:00 np
30.00
25.00
20.00
15.00
10.00
5.000
0.000


SCIOL2P_NADUV6OCL_slant_col_den for 25JUL2011 00:00:00 to 26JUL2011 00:00:00 sp
SCIOL2P_NADUV6OCL_err_slant_col for 25JUL2011 00:00:00 to 26JUL2011 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
-90
-90

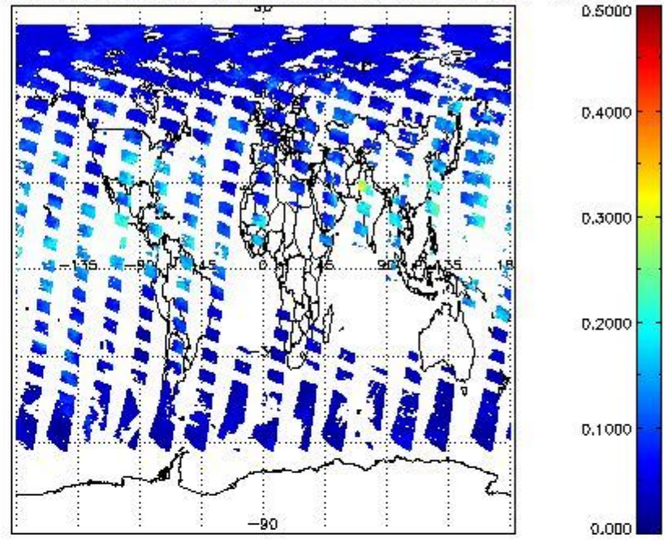
2.2.2.7 H2O (UV8)


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]
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182848 110725
200922 110725
214913 110725
232845 110725

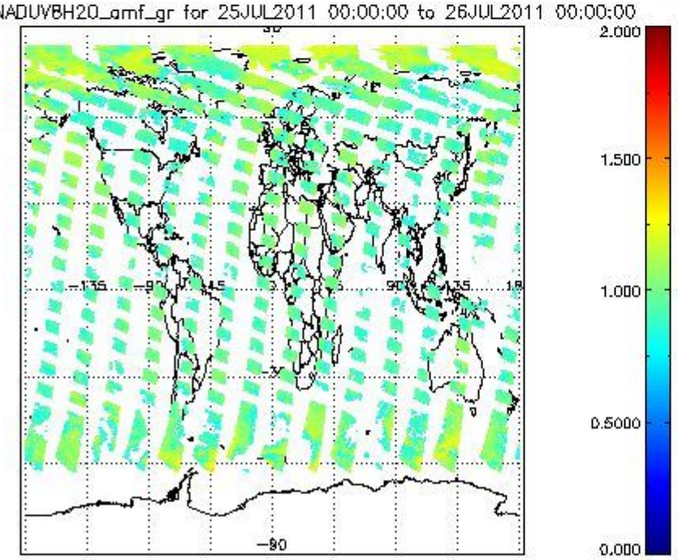
SCIOL2P_NADUV8H2O_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



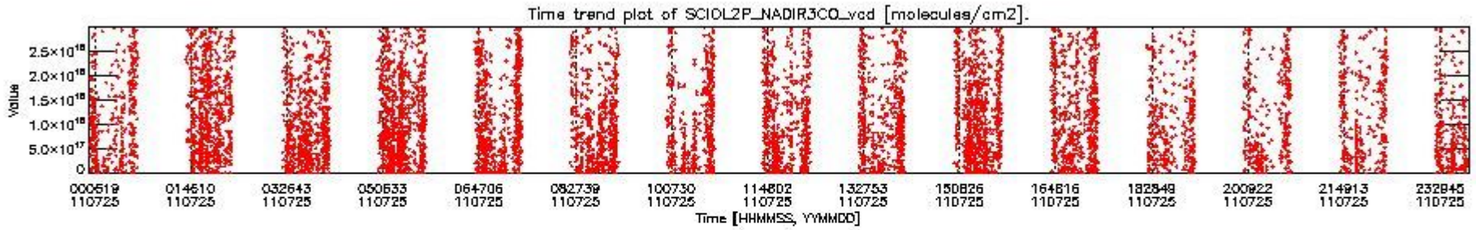
SCIOL2P_NADUV8H2O_vcd_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00

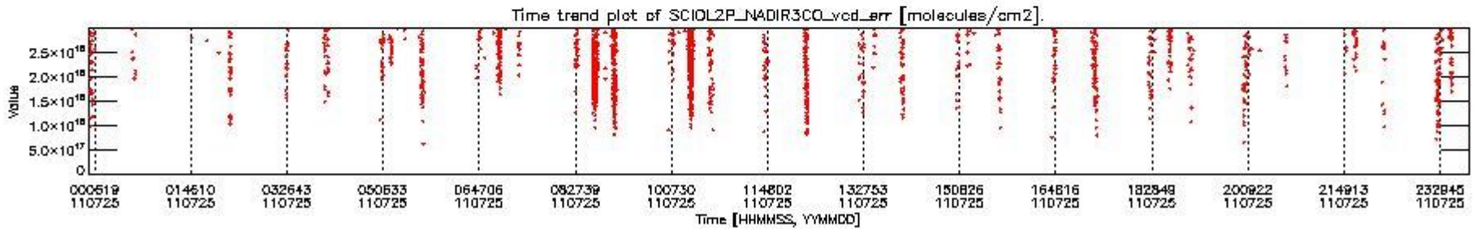


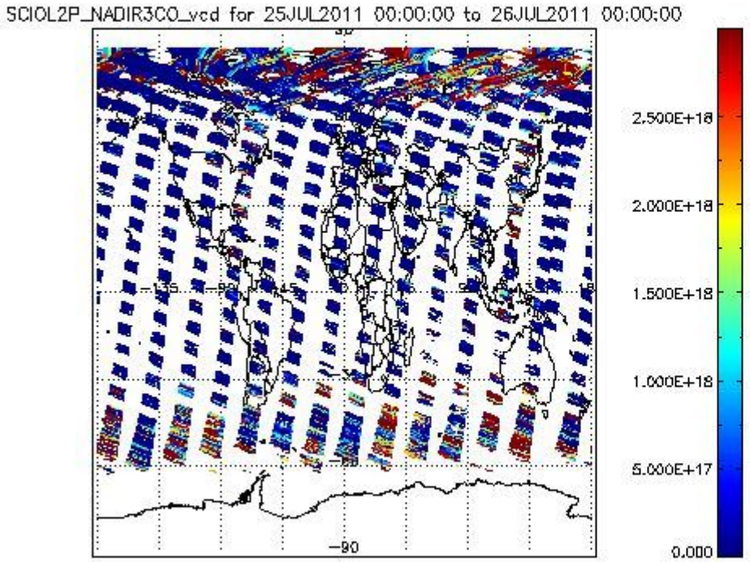
SCIOL2P_NADUV8H2O_amf_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00

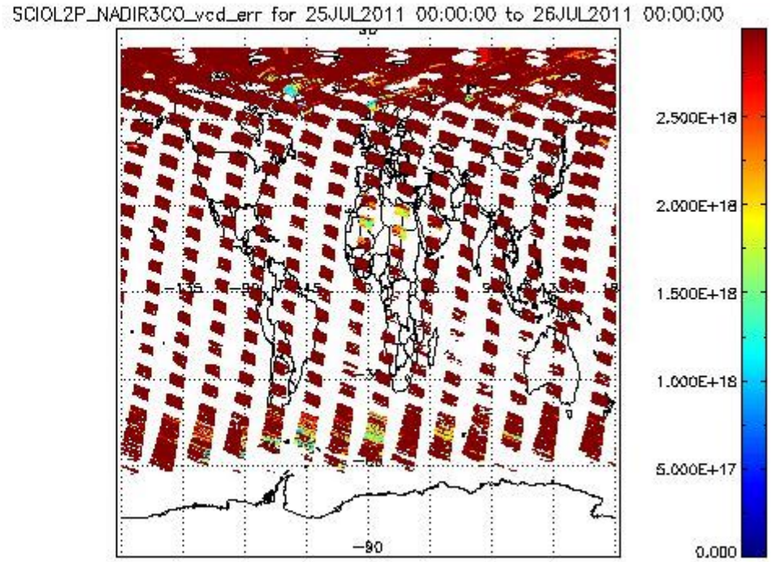


2.2.2.8 CO (IR3)









2.2.3 Limb

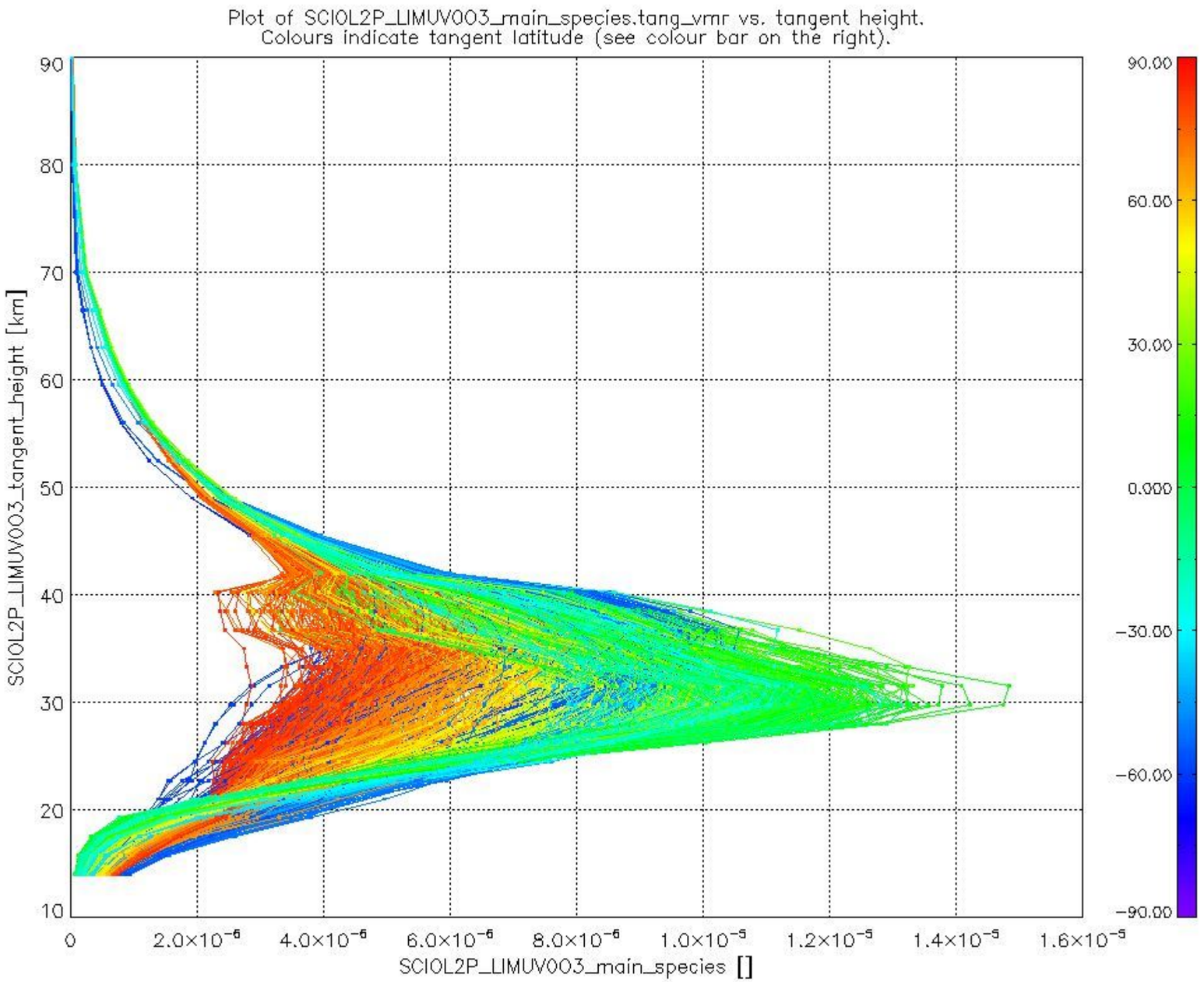
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

The following data items are currently included into this section:

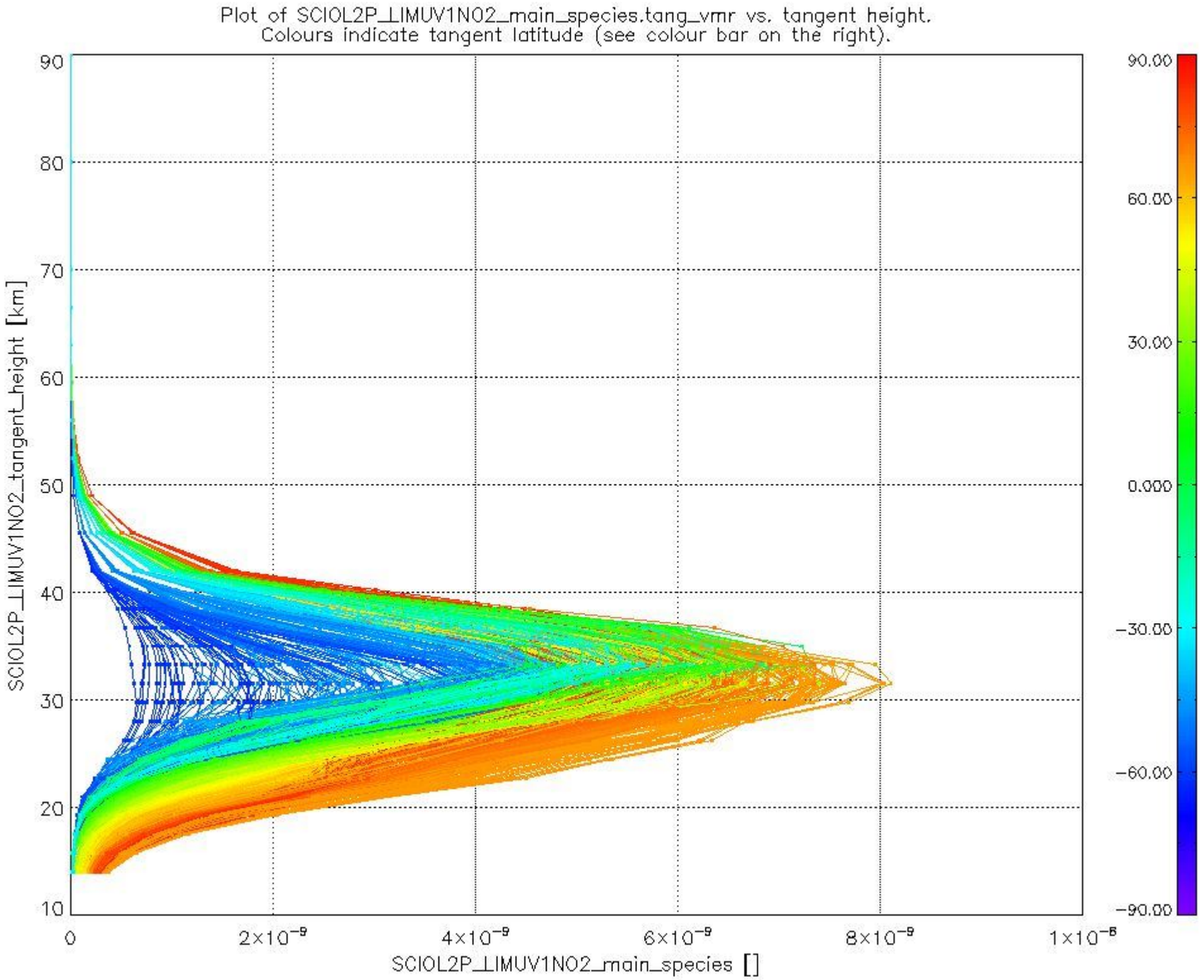
Number	Data item ID
0	SCIOL2P_LIMUV0O3_main_species
1	SCIOL2P_LIMUV1NO2_main_species
2	SCIOL2P_LIMUV3BRO_main_species

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

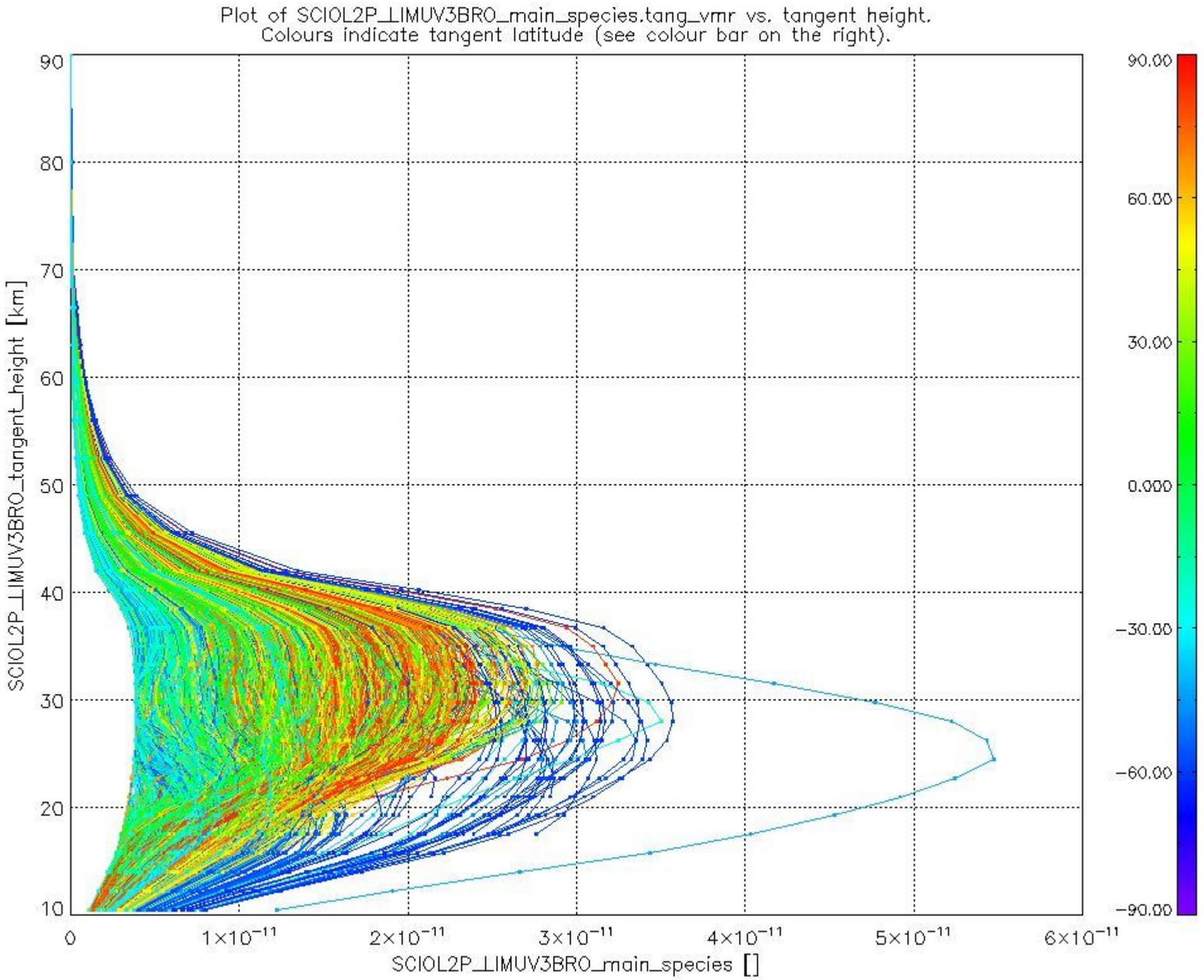
2.2.3.1 O3 (UV0)



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
2×10⁻⁹
4×10⁻⁹
6×10⁻⁹
8×10⁻⁹
1×10⁻⁸
SCIOL2P_LIMUV1NO2_main_species []
90.00
60.00
30.00
0.000
−30.00
−60.00
−90.00

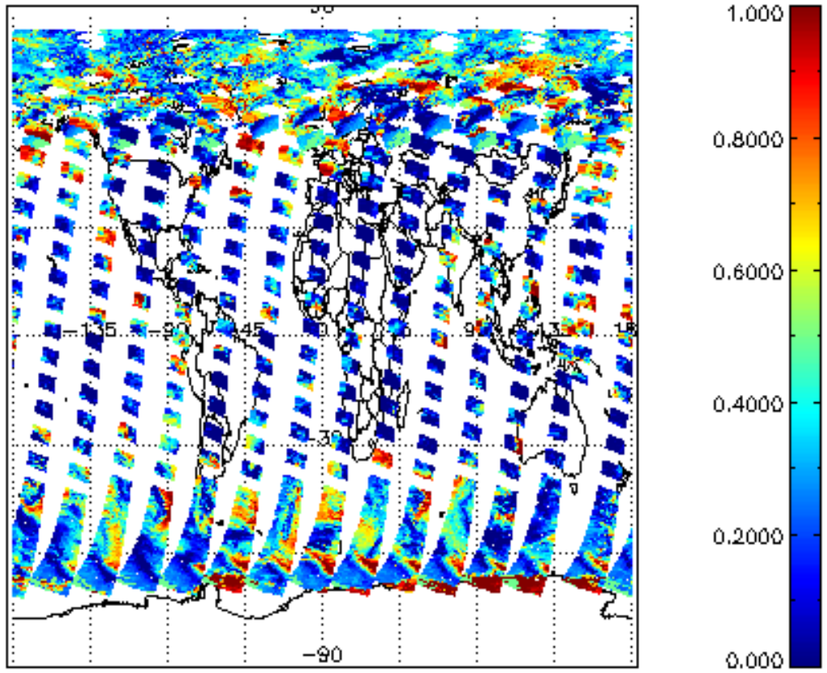
2.2.3.3 BrO (UV3)



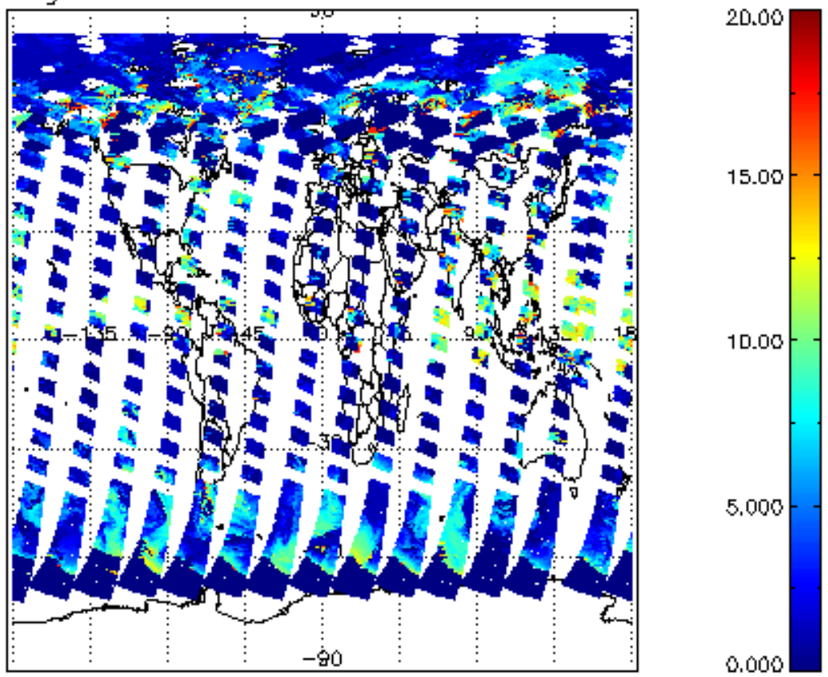
2.3 ADF monitoring

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_AXVIEC20110719_111322_20110724_182738_20110726_182738**
3	**SCI_MF1_AXVIEC20110719_111427_20110725_193106_20110822_193106**

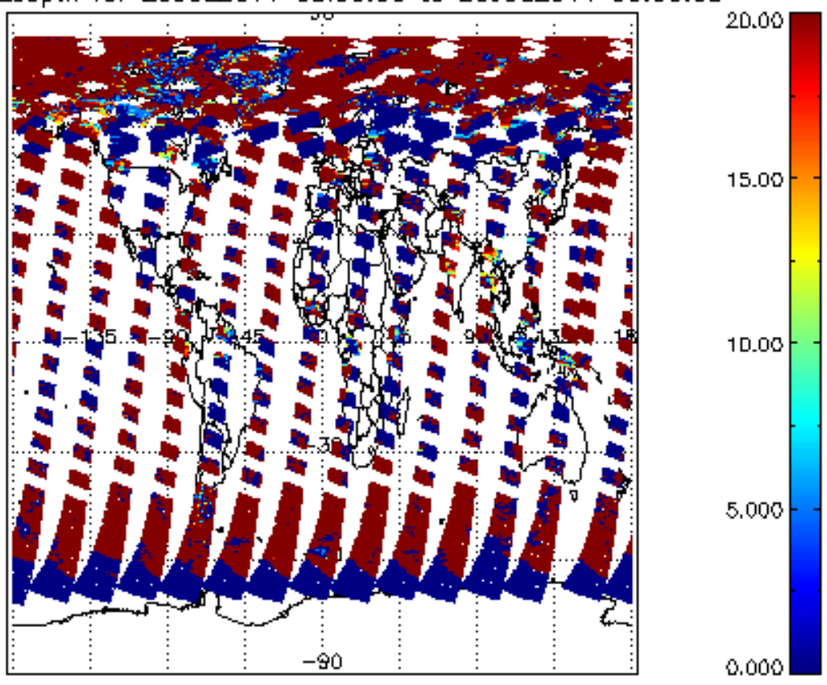
cl_frac for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



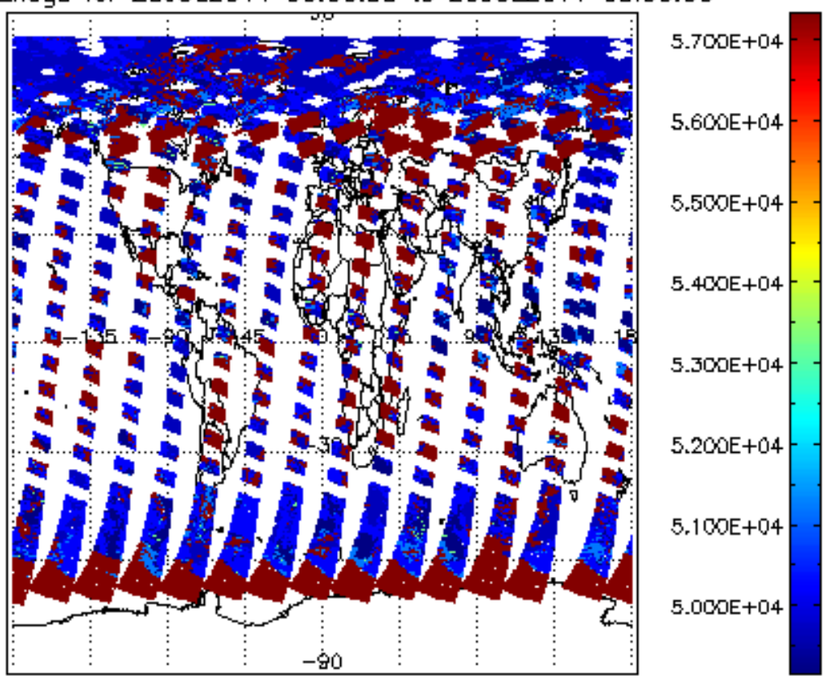
cl_top_height for 25JUL2011 00:00:00 to 26JUL2011 00:00:00

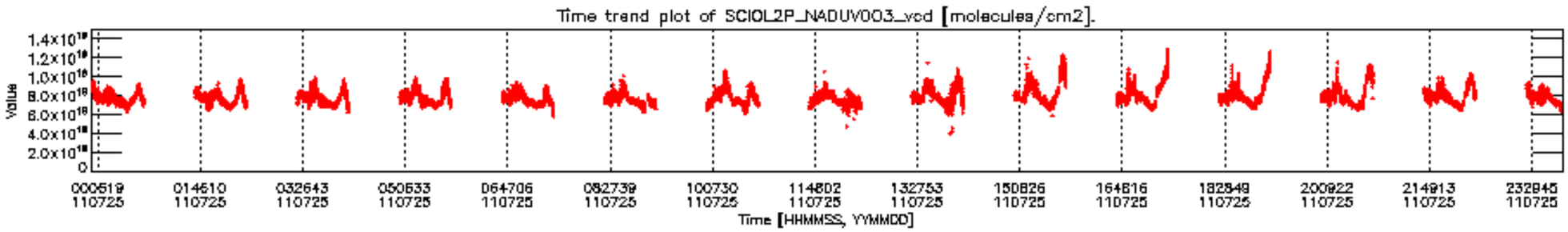


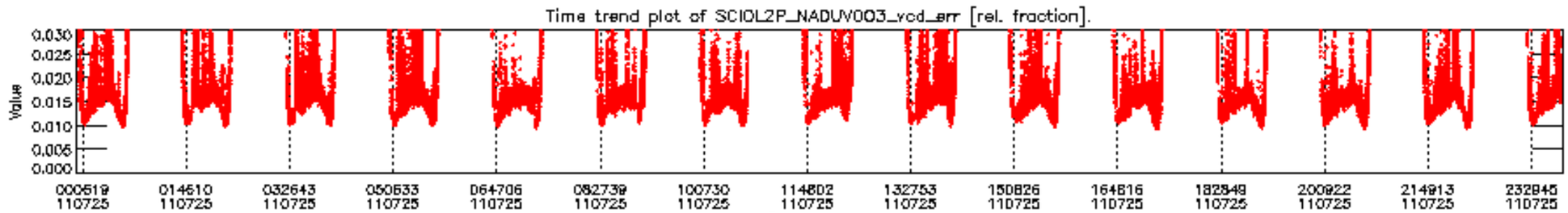
cl_opt_depth for 25JUL2011 00:00:00 to 26JUL2011 00:00:00

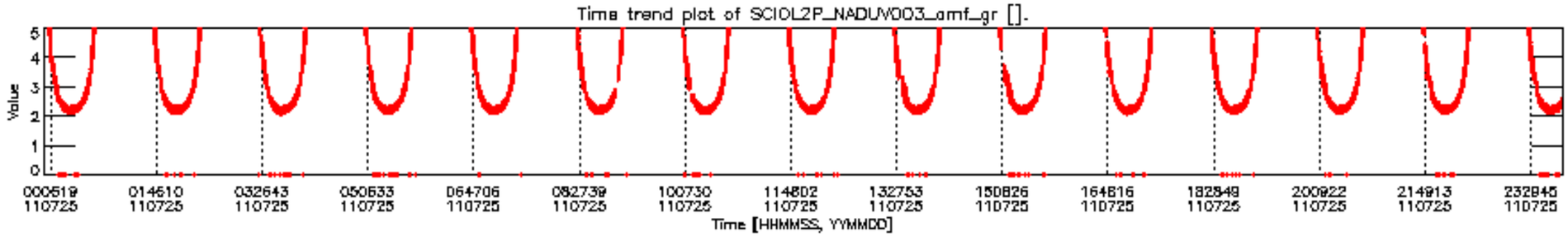


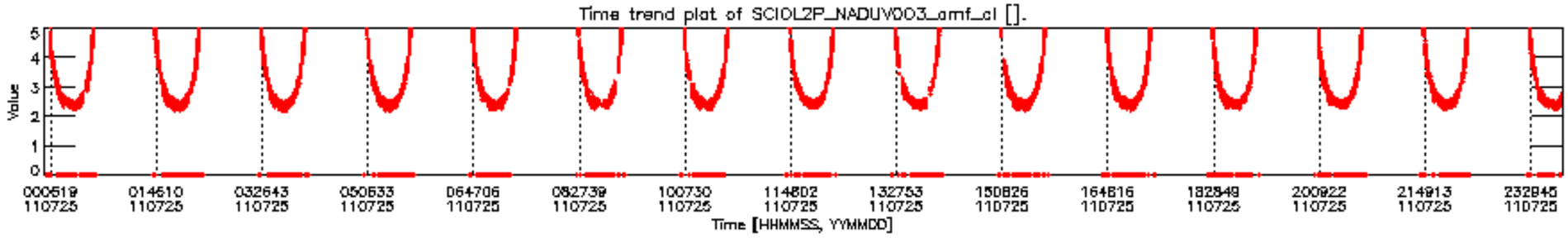
cloud_flags for 25JUL2011 00:00:00 to 26JUL2011 00:00:00

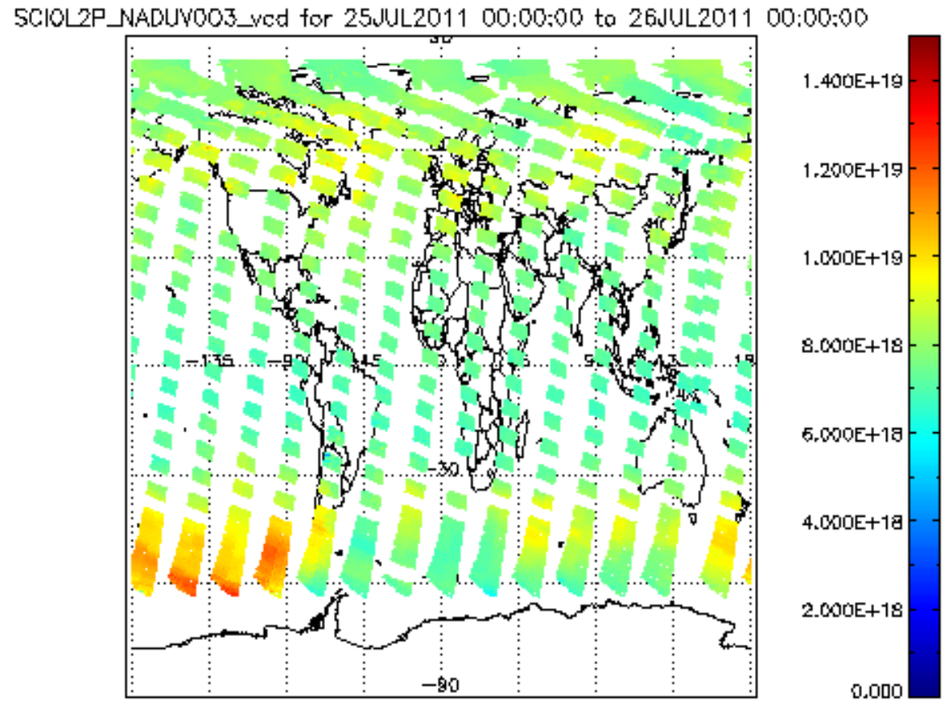


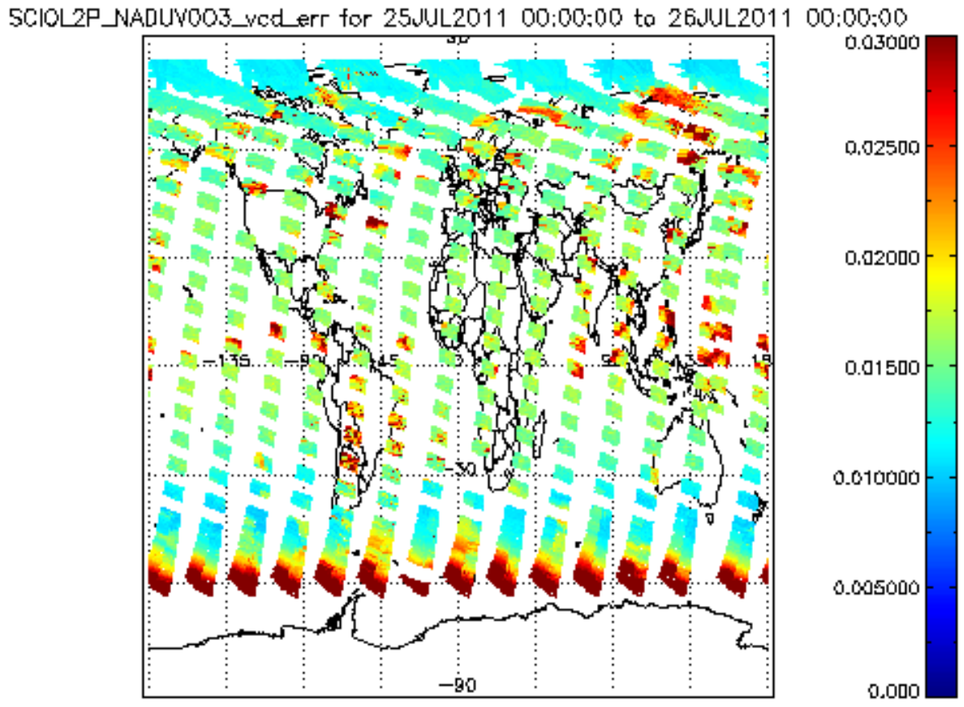

Time trend plot of SCIOL2P_NADUV003_vcd [molecules/cm2].
Value
1.4x10^18
1.2x10^18
1.0x10^18
8.0x10^18
6.0x10^18
4.0x10^18
2.0x10^18
0
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114602 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]

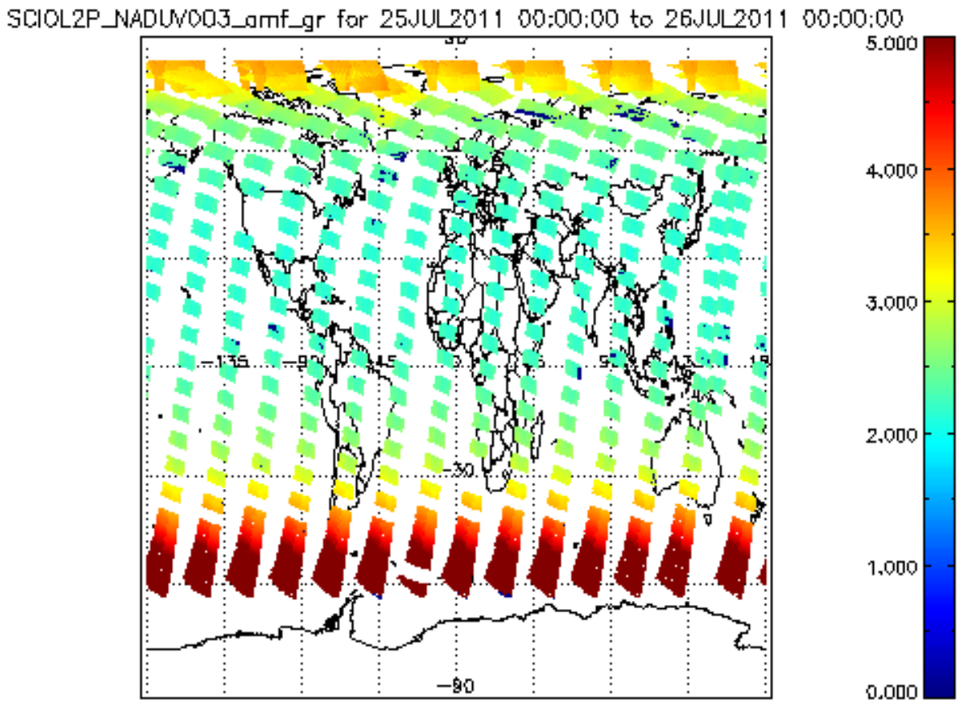

Time trend plot of SCIOL2P_NADUV003_vcd_err [rel. fraction].
Value
0.030
0.025
0.020
0.015
0.010
0.005
0.000
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114602 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]

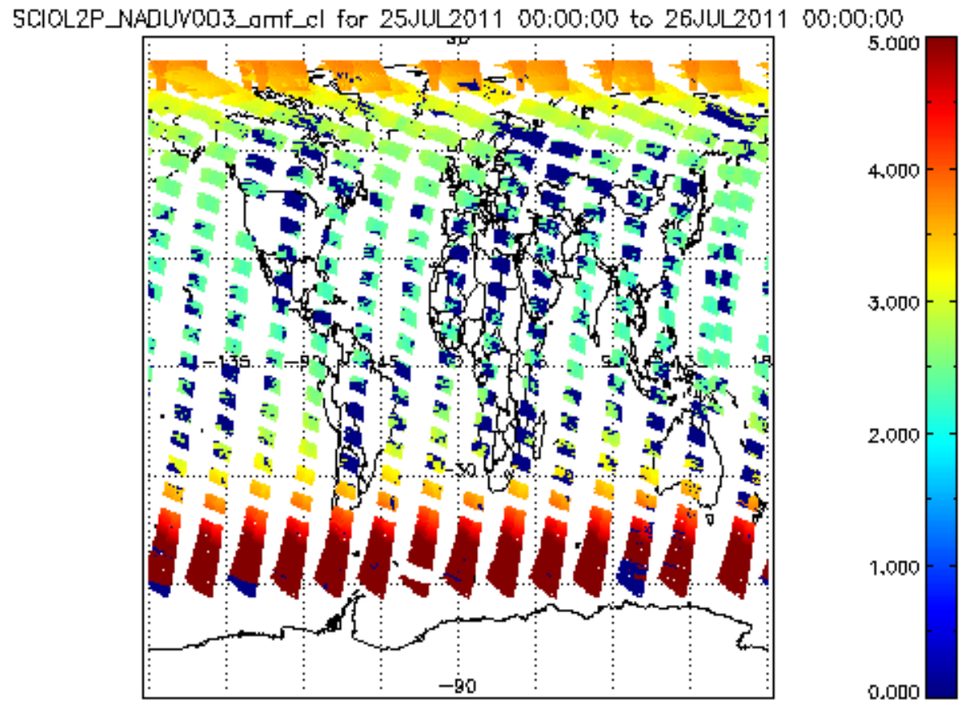

Time trend plot of SCIOL2P_NADUV003_amf_gr [].
Value
5
4
3
2
1
0
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114602 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]

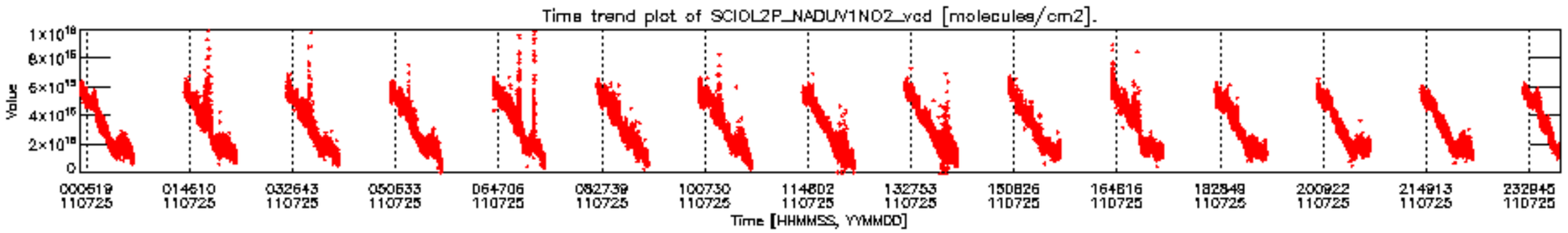

Time trend plot of SCIOL2P_NADUV003_amf_cl [].
Value
5
4
3
2
1
0
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114602 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]

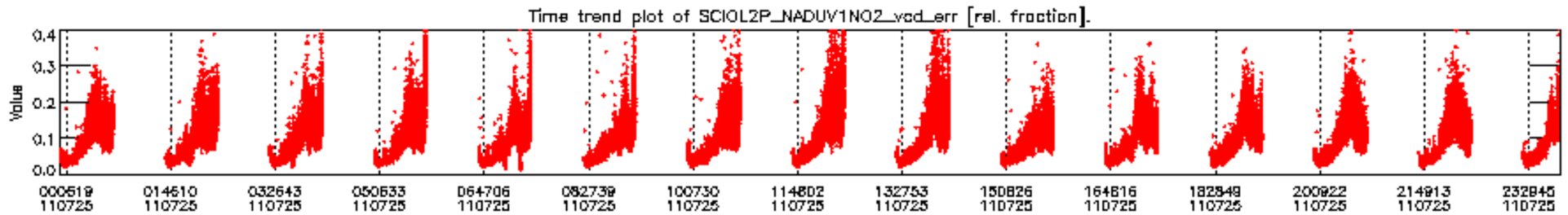

SCIOL2P_NADUV003_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
1.400E+19
1.200E+19
1.000E+19
8.000E+18
6.000E+18
4.000E+18
2.000E+18
0.000
-135
-90
-45
-30
-90

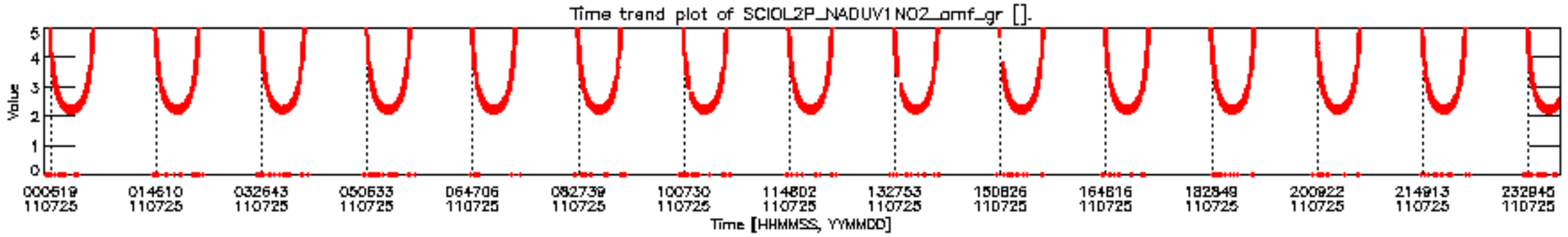

SCIOL2P_NADUV003_vcd_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
0.03000
0.02500
0.02000
0.01500
0.010000
0.005000
0.000
-135
-90
-45
-30
-90

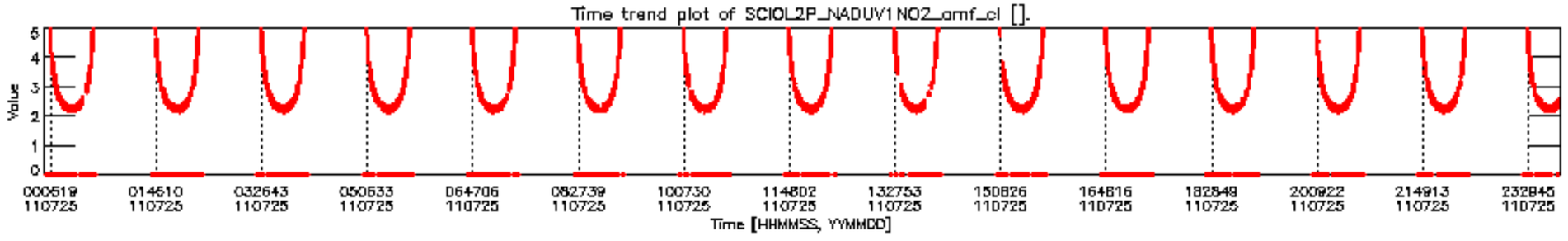

SCIOL2P_NADUV003_amf_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-135
-90
-45
-30
-90

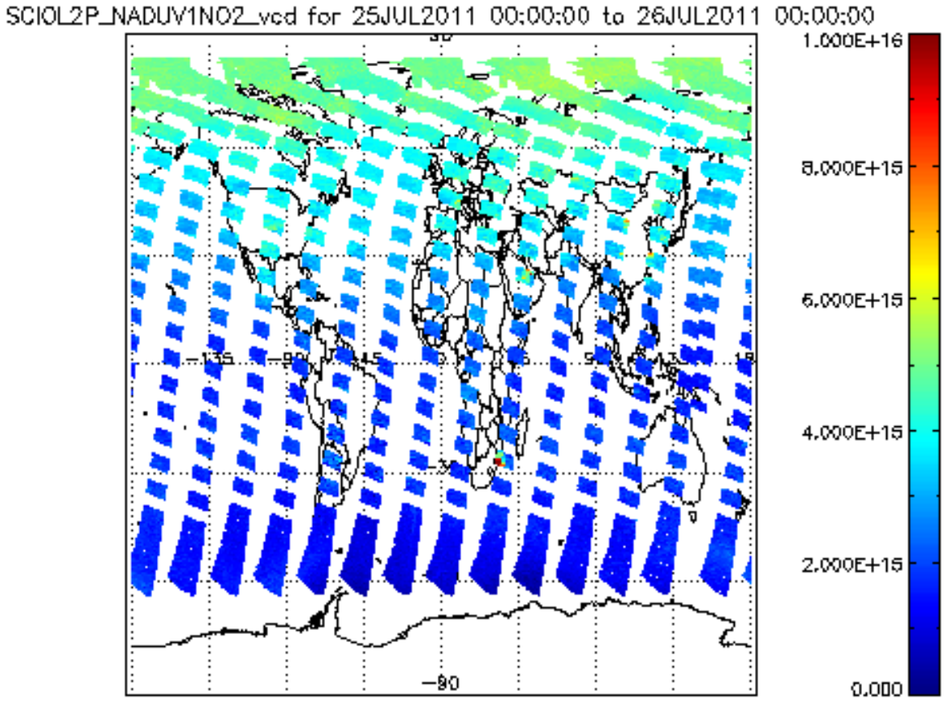

SCIOL2P_NADUV003_amf_cl for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-135
-90
-45
-30
-90

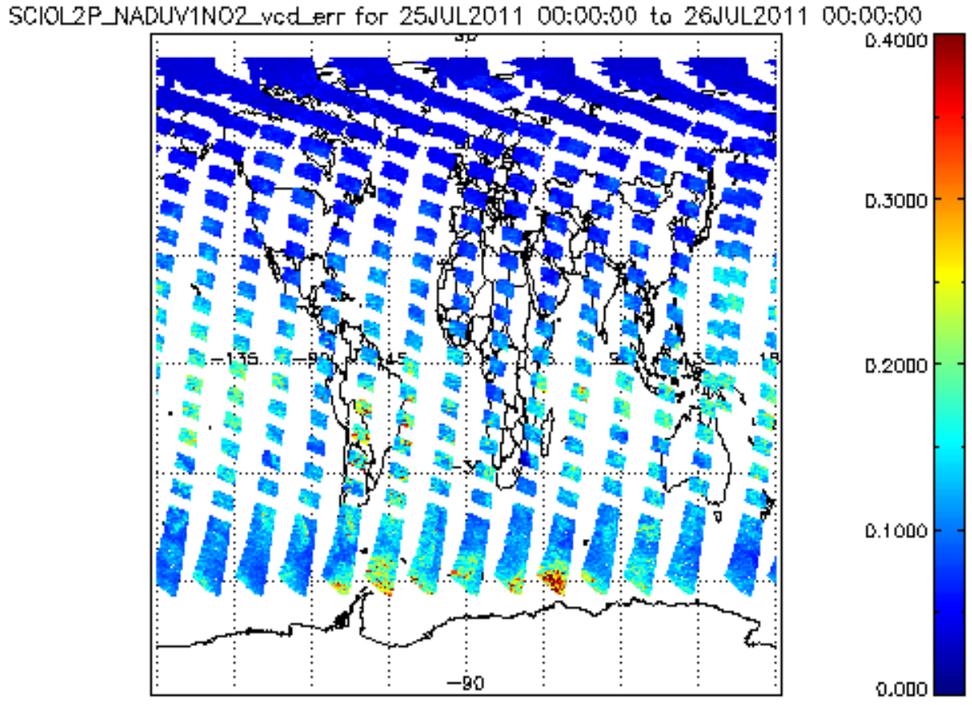

Time trend plot of SCIOL2P_NADUV1NO2_vcd [molecules/cm2].
Value
1x10^16
8x10^15
6x10^15
4x10^15
2x10^15
0
000519 110725
014610 110725
032643 110725
050633 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]

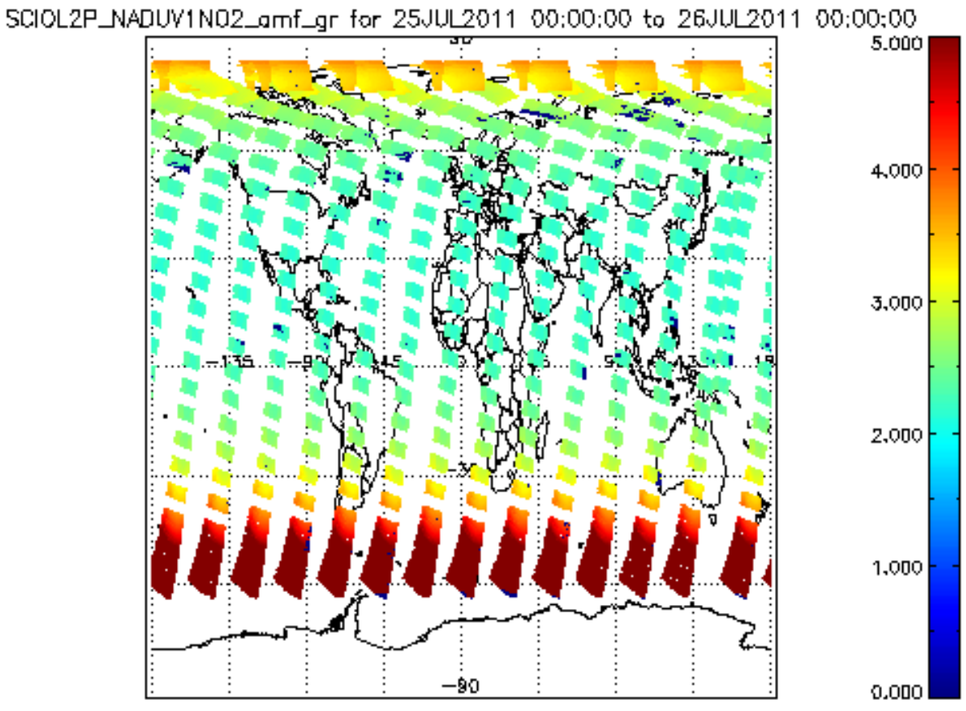

Time trend plot of SCIOL2P_NADUV1NO2_vcd_err [rel. fraction].
Value
0.4
0.3
0.2
0.1
0.0
000519 110725
014610 110725
032643 110725
050633 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]

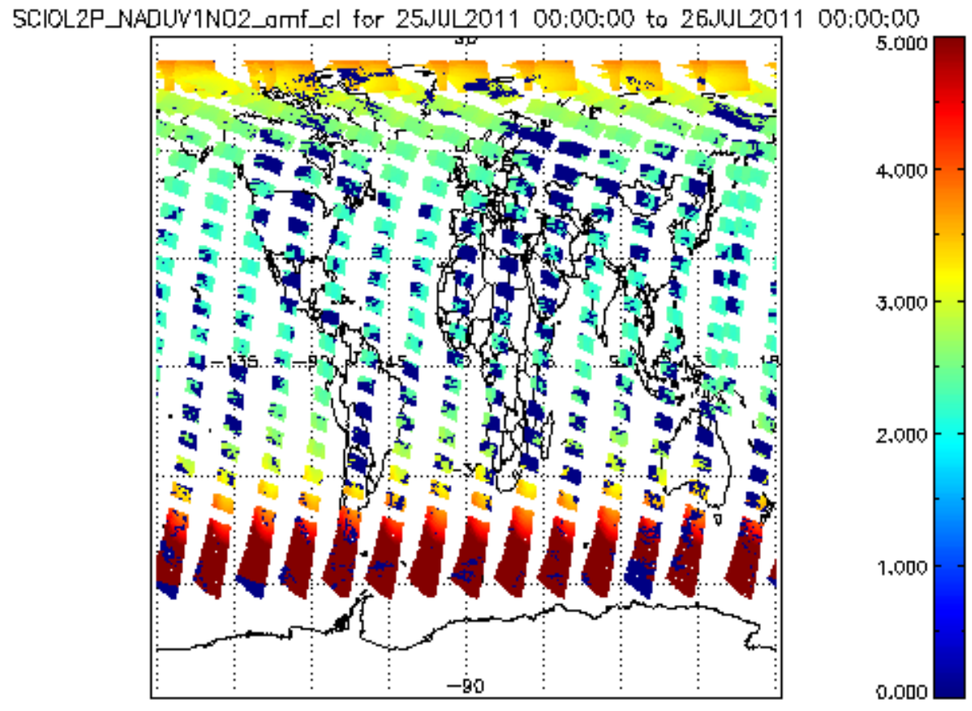

Time trend plot of SCIOL2P_NADUV1NO2_amf_gr [].
Value
5
4
3
2
1
0
000519 110725
014610 110725
032643 110725
050633 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]

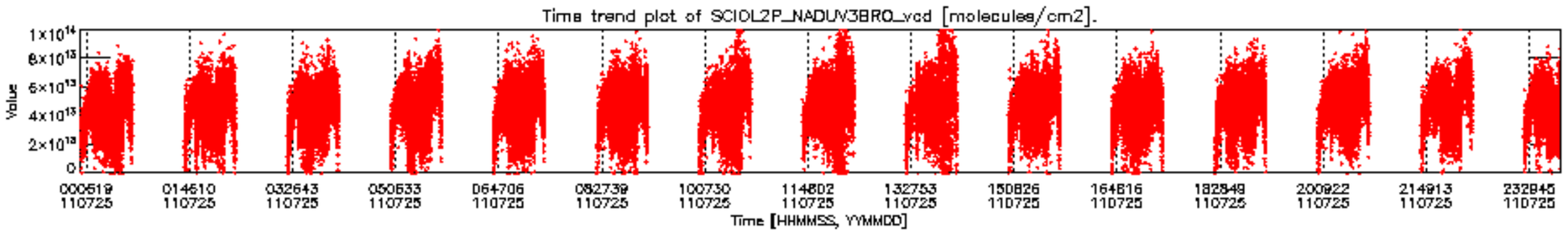

Time trend plot of SCIOL2P_NADUV1NO2_amf_cl [].
Value
5
4
3
2
1
0
000519 110725
014610 110725
032643 110725
050633 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]

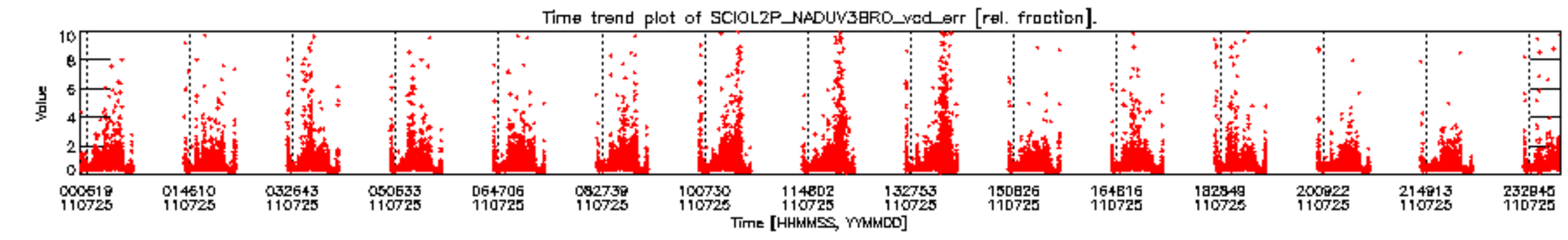

SCIOL2P_NADUV1NO2_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
1.000E+16
8.000E+15
6.000E+15
4.000E+15
2.000E+15
0.000
−90

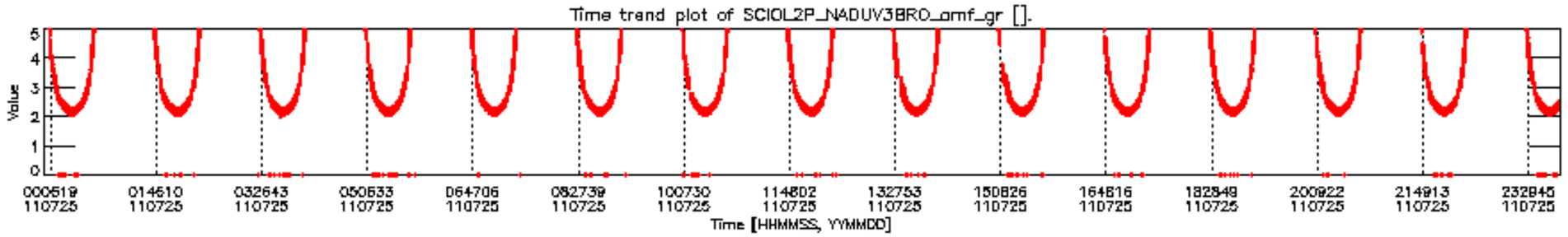

SCIOL2P_NADUV1NO2_vcd_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
0.4000
0.3000
0.2000
0.1000
0.000
−90

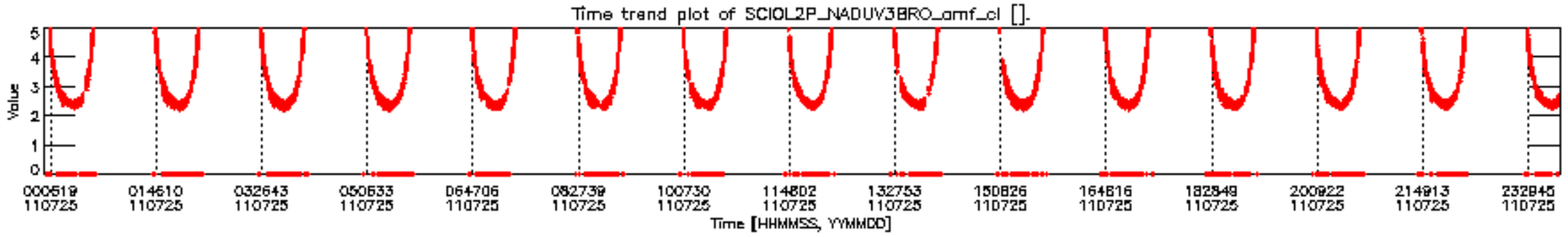

SCIOL2P_NADUV1NO2_amf_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
−90


SCIOL2P_NADUV1NO2_amf_cl for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
−90

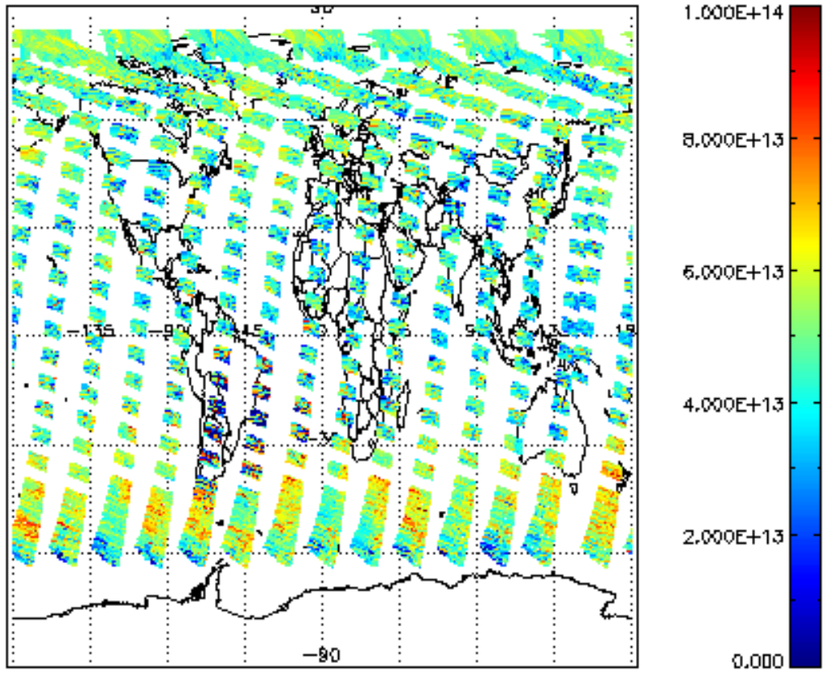

Time trend plot of SCIOL2P_NADUV3BRO_vcd [molecules/cm2].
Value
1x10^14
8x10^13
6x10^13
4x10^13
2x10^13
0
000519 110725
014610 110725
032643 110725
050633 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV3BRO_vcd_err [rel. fraction].
Value
10
8
6
4
2
0
000519 110725
014610 110725
032643 110725
050633 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]

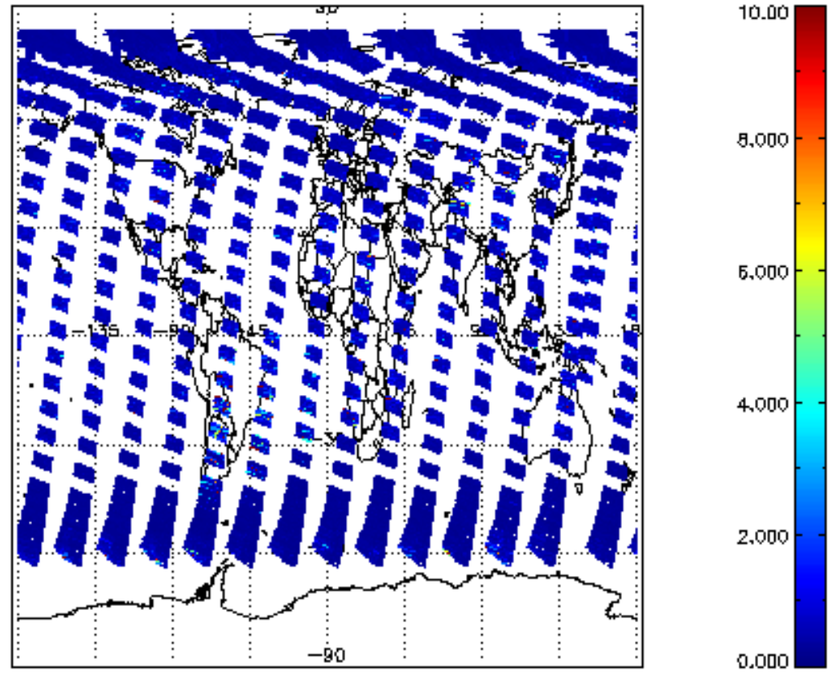

Time trend plot of SCIOL2P_NADUV3BRO_amf_gr [].
Value
5
4
3
2
1
0
000519 110725
014610 110725
032643 110725
050633 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV3BRO_amf_cl [].
Value
5
4
3
2
1
0
000519 110725
014610 110725
032643 110725
050633 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]

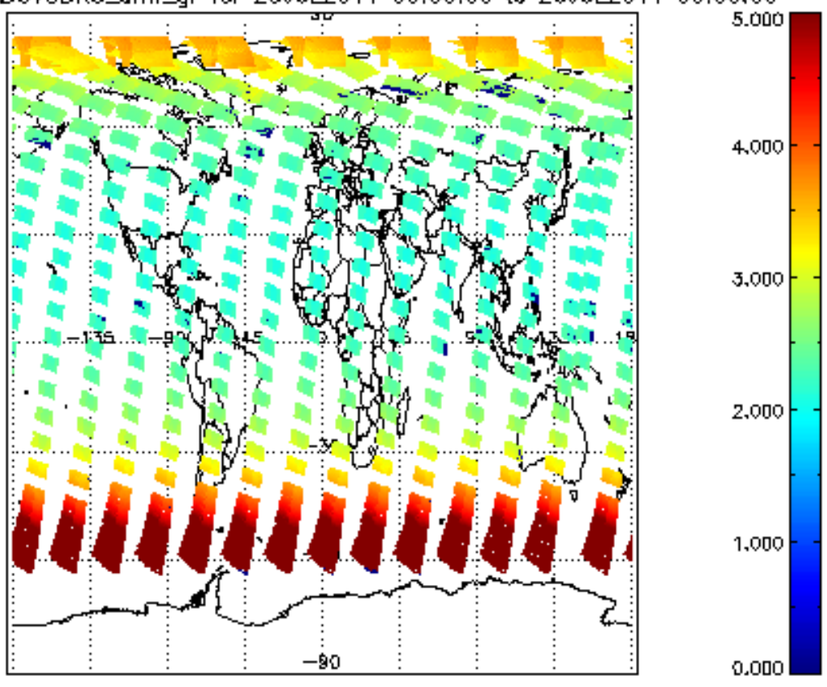
SCIOL2P_NADUV3BRO_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



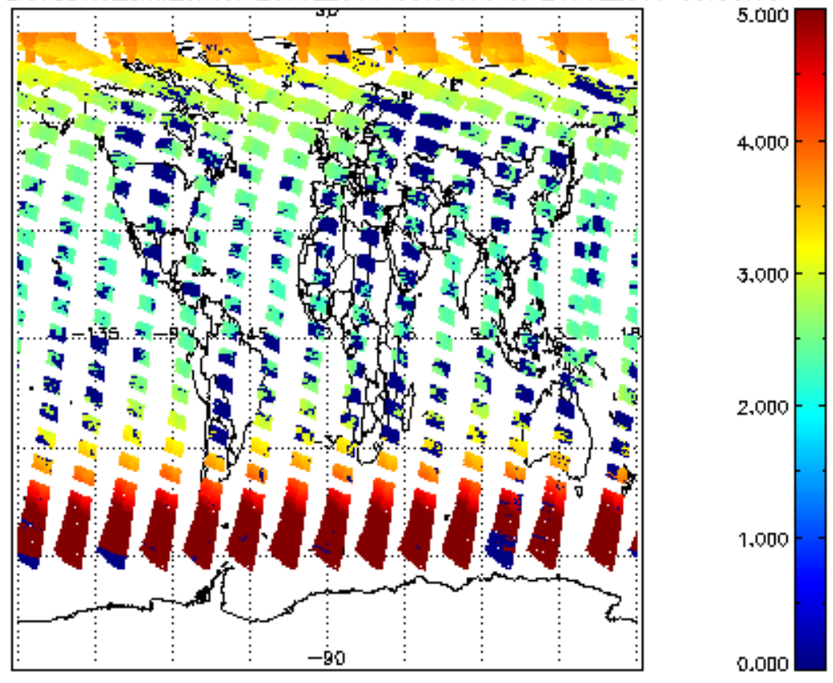
SCIOL2P_NADUV3BRO_vcd_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00

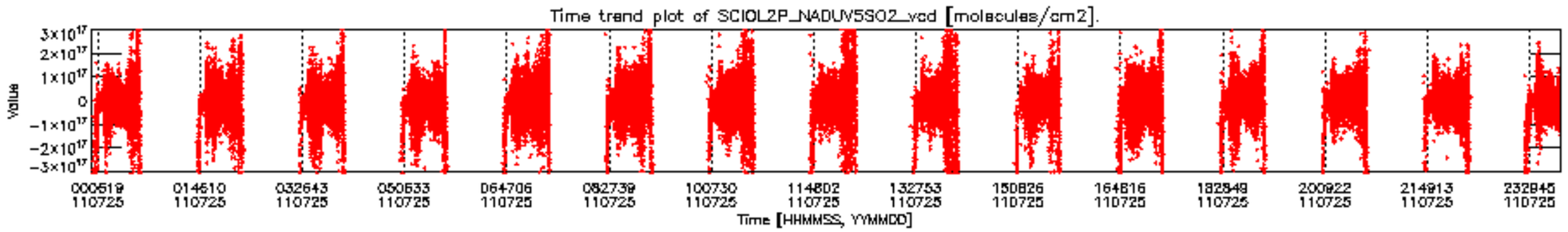


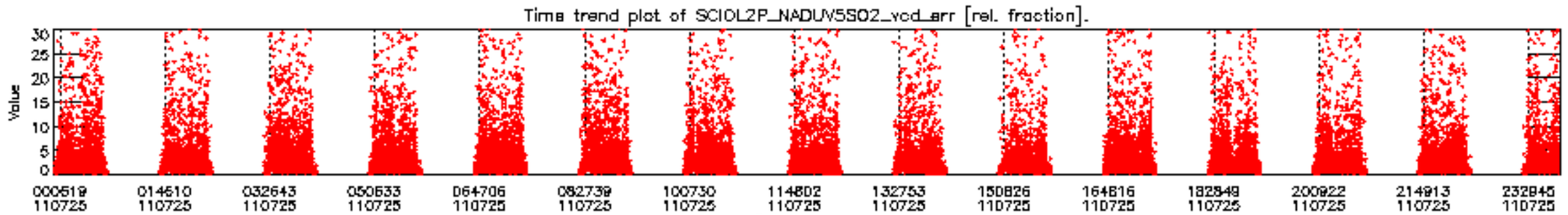
SCIOL2P_NADUV3BRO_amf_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00

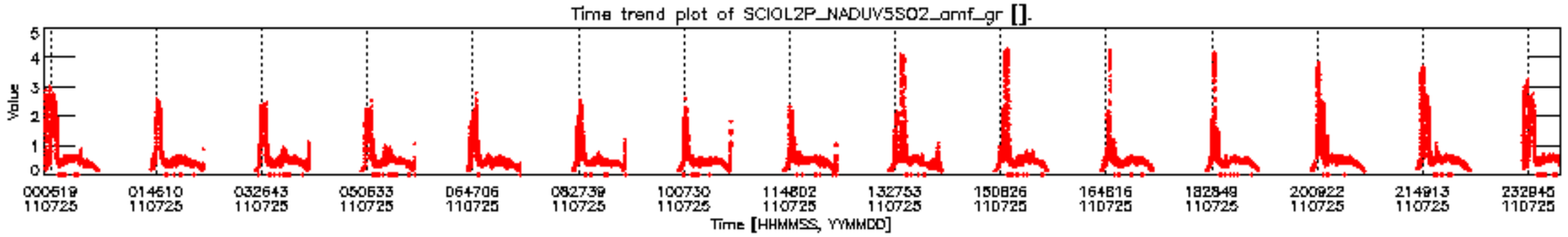


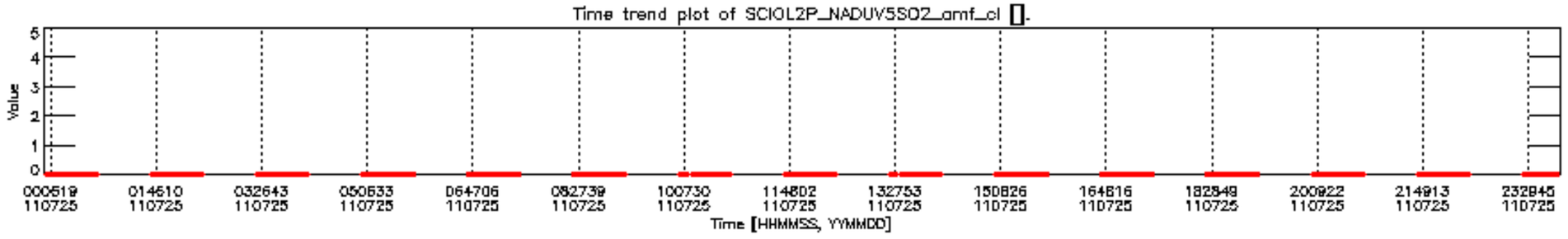
SCIOL2P_NADUV3BRO_amf_cl for 25JUL2011 00:00:00 to 26JUL2011 00:00:00

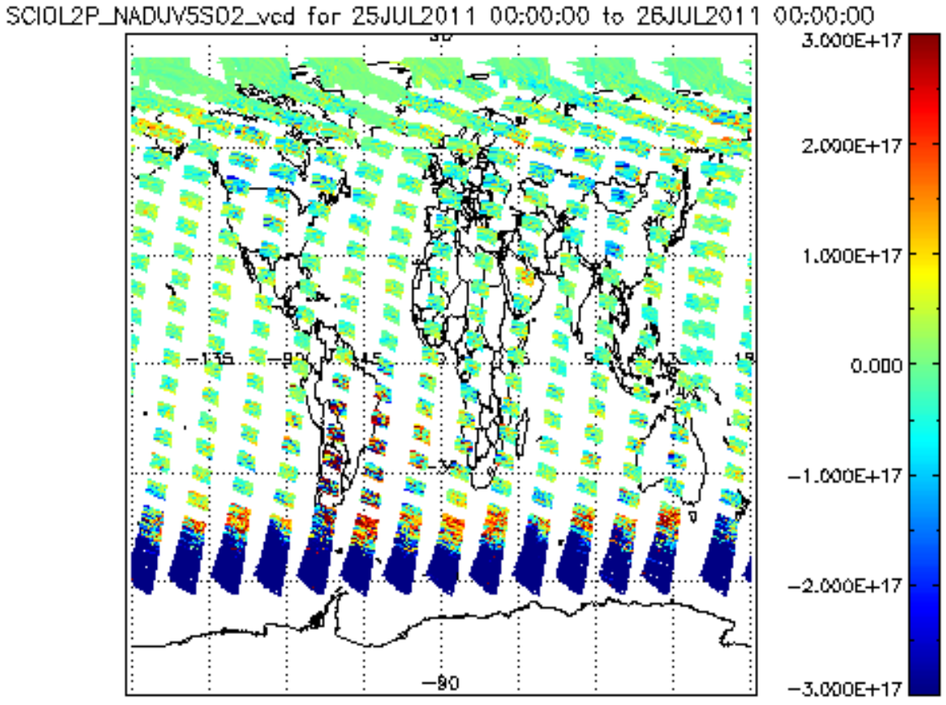


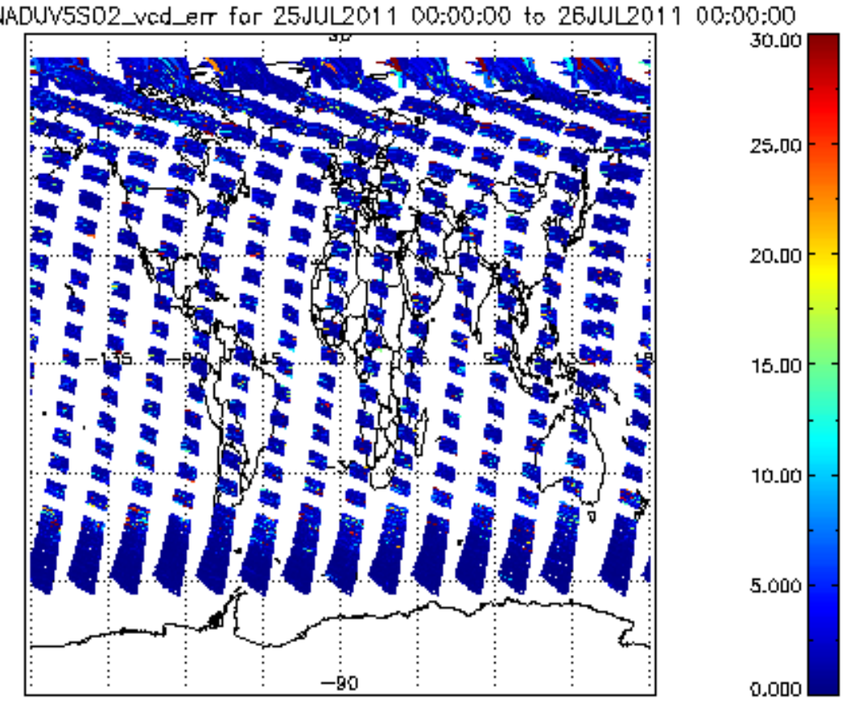

Time trend plot of SCIOL2P_NADUV5SO2_vcd [molecules/cm2].
Value
3x10^17
2x10^17
1x10^17
0
-1x10^17
-2x10^17
-3x10^17
000519 110725
014610 110725
032643 110725
050633 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]

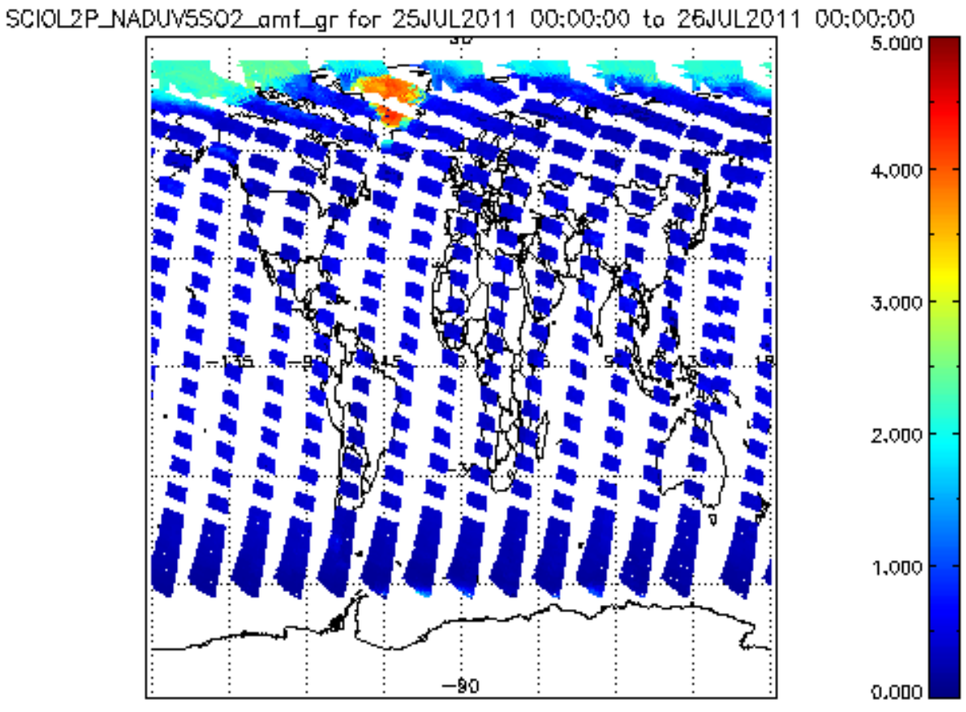

Time trend plot of SCIOL2P_NADUV5SO2_vcd_err [rel. fraction].
Value
30
25
20
15
10
5
0
000519 110725
014610 110725
032643 110725
050633 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]

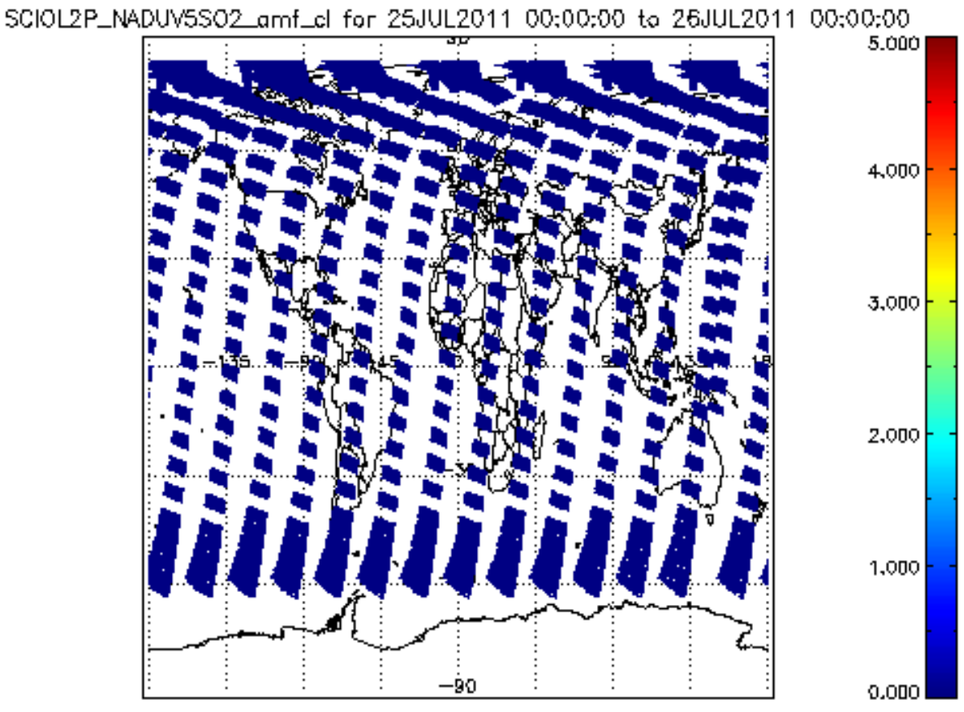

Time trend plot of SCIOL2P_NADUV5SO2_amf_gr [].
Value
5
4
3
2
1
0
000519 110725
014610 110725
032643 110725
050633 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]

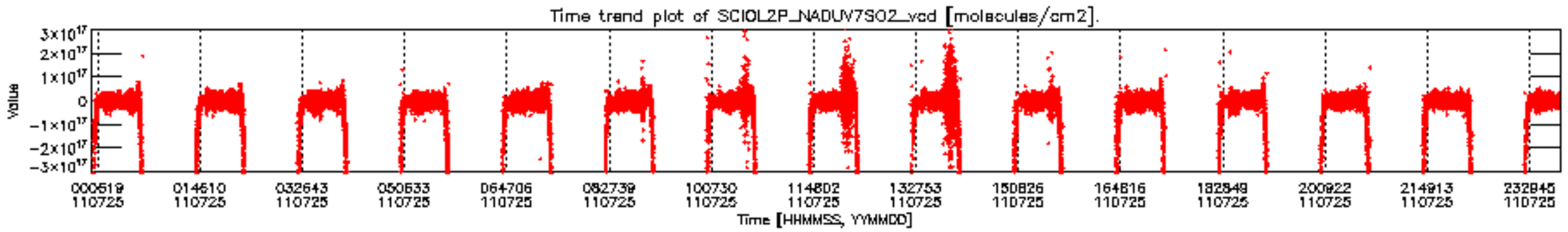

Time trend plot of SCIOL2P_NADUV5SO2_amf_cl [].
Value
5
4
3
2
1
0
000519 110725
014610 110725
032643 110725
050633 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]

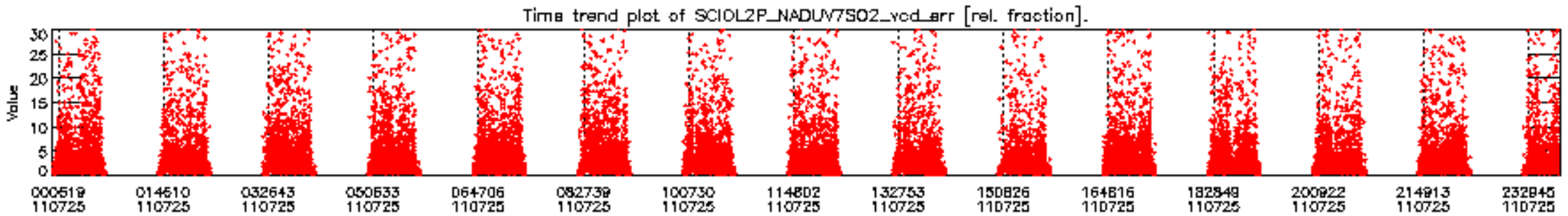

SCIOL2P_NADUV5SO2_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
3.000E+17
2.000E+17
1.000E+17
0.000
-1.000E+17
-2.000E+17
-3.000E+17
-90

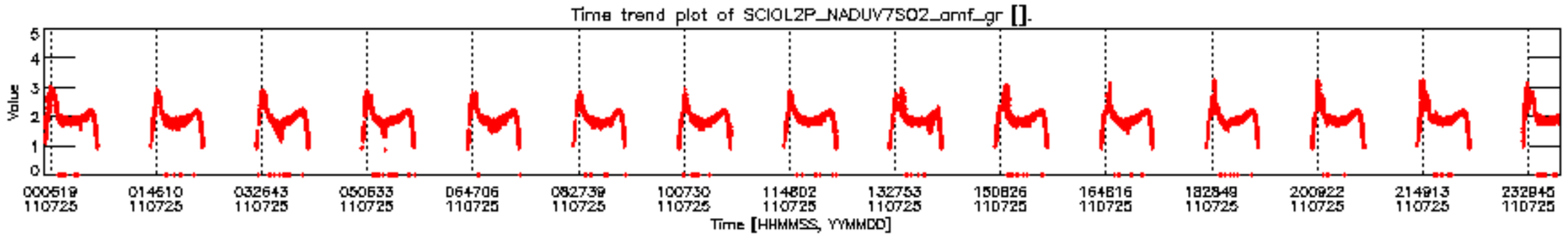

SCIOL2P_NADUV5SO2_vcd_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
-90

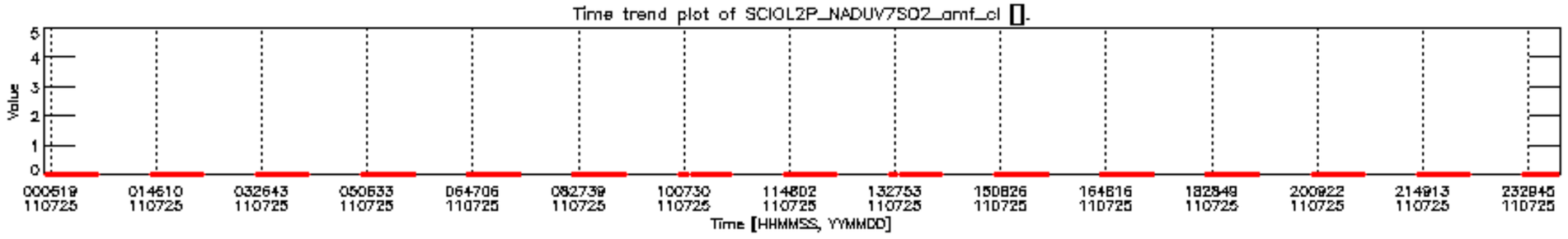

SCIOL2P_NADUV5SO2_amf_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90


SCIOL2P_NADUV5SO2_amf_cl for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
5.000
4.000
3.000
2.000
1.000
0.000
-90

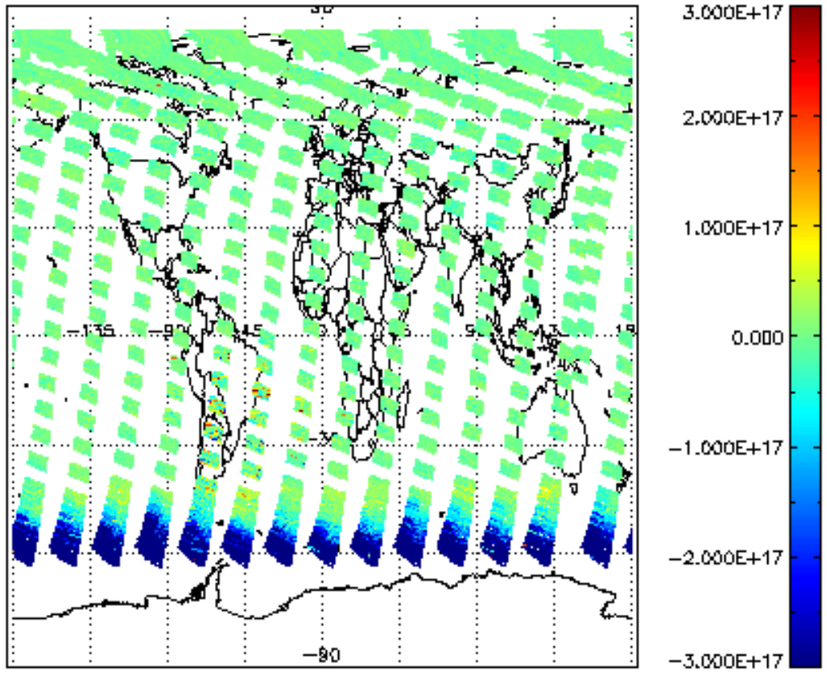

Time trend plot of SCIOL2P_NADUV7SO2_vcd [molecules/cm2].
Value
3x10^17
2x10^17
1x10^17
0
-1x10^17
-2x10^17
-3x10^17
000519 110725
014610 110725
032643 110725
050633 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV7SO2_vcd_err [rel. fraction].
Value
30
25
20
15
10
5
0
000519 110725
014610 110725
032643 110725
050633 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]

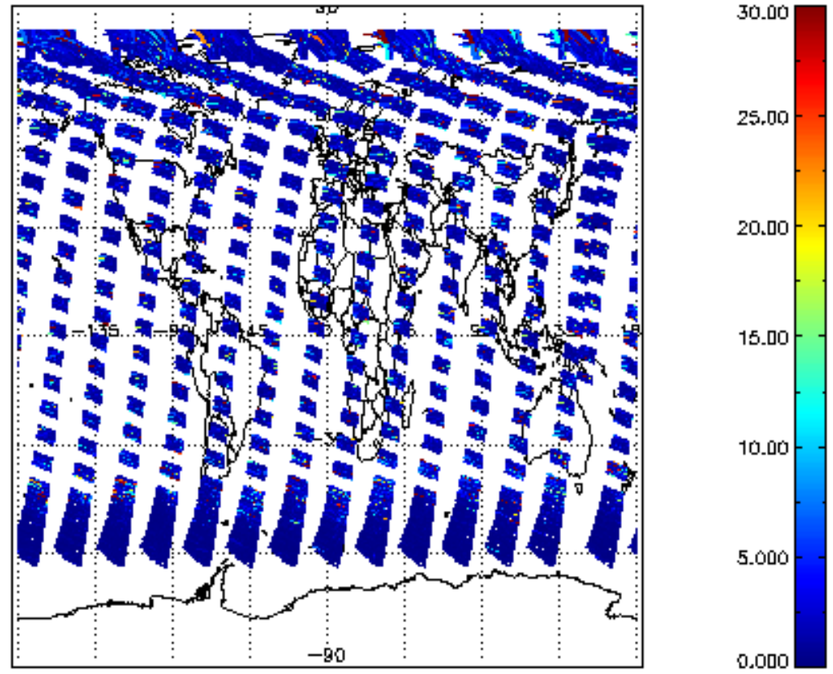

Time trend plot of SCIOL2P_NADUV7SO2_amf_gr [].
Value
5
4
3
2
1
0
000519 110725
014610 110725
032643 110725
050633 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]


Time trend plot of SCIOL2P_NADUV7SO2_amf_cl [].
Value
5
4
3
2
1
0
000519 110725
014610 110725
032643 110725
050633 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]

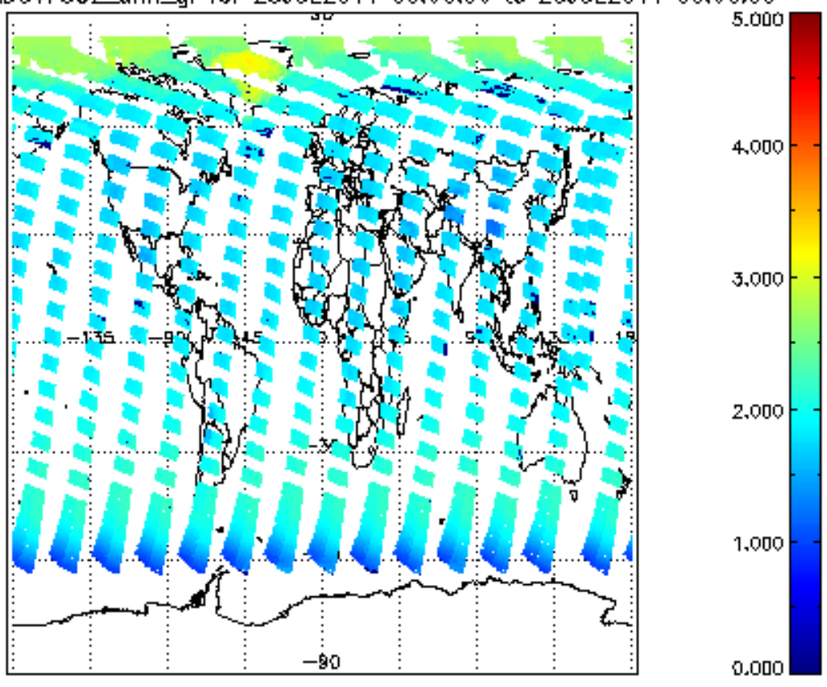
SCIOL2P_NADUV7SO2_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



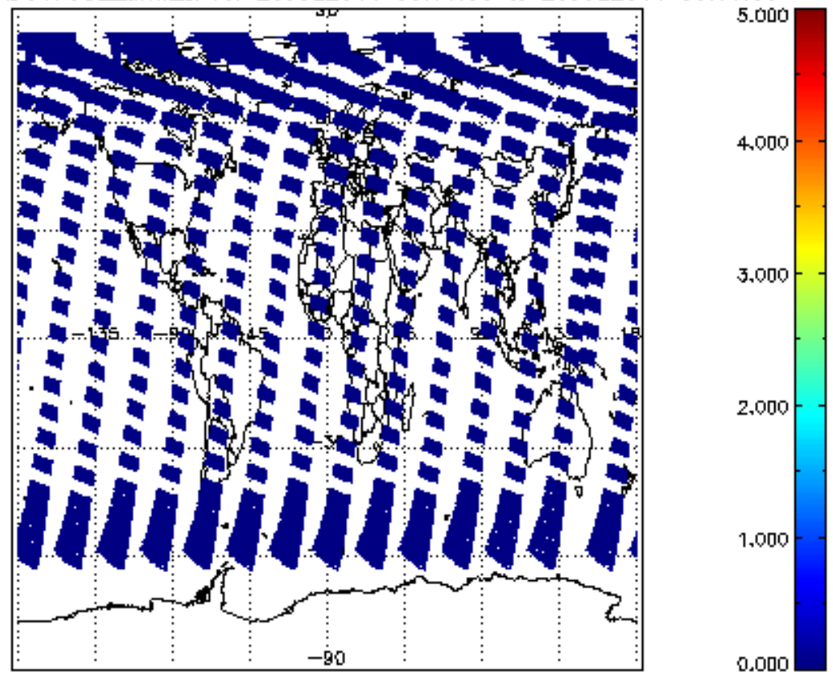
SCIOL2P_NADUV7SO2_vcd_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00

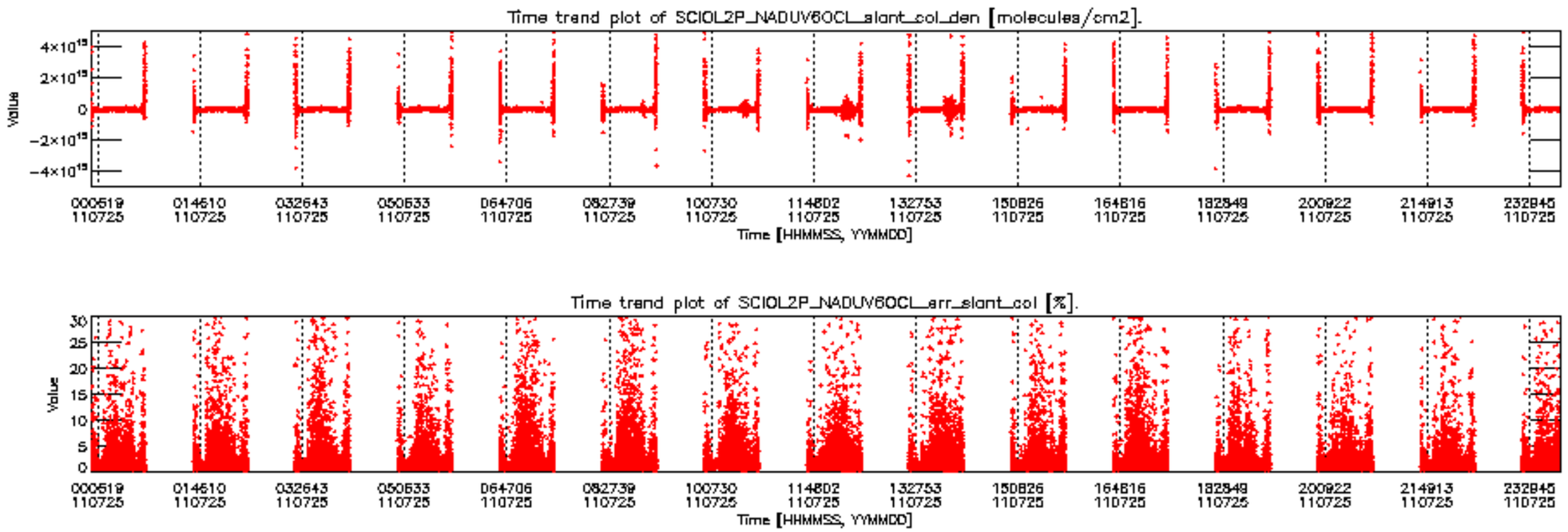


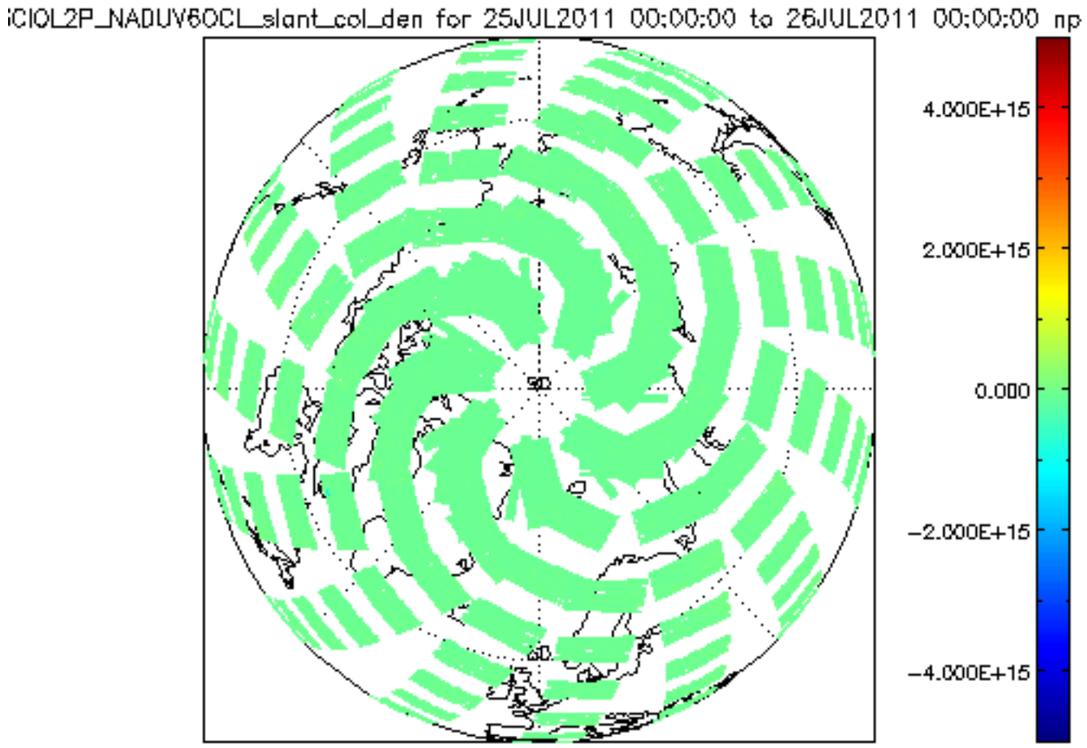
SCIOL2P_NADUV7SO2_amf_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00

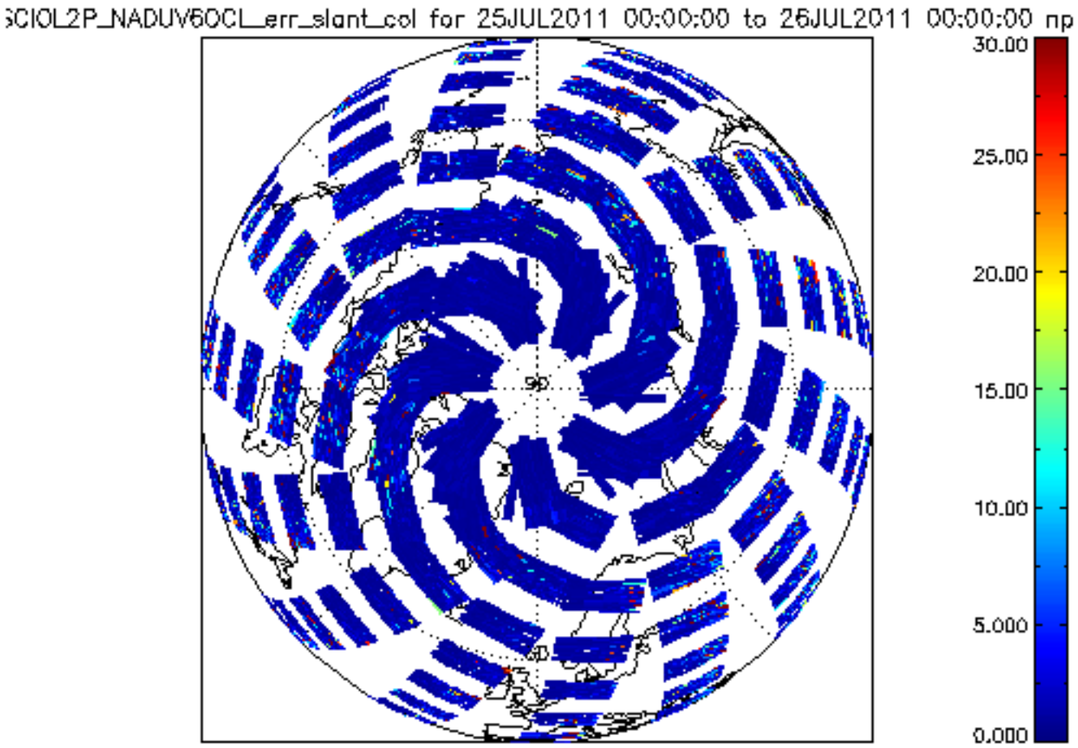


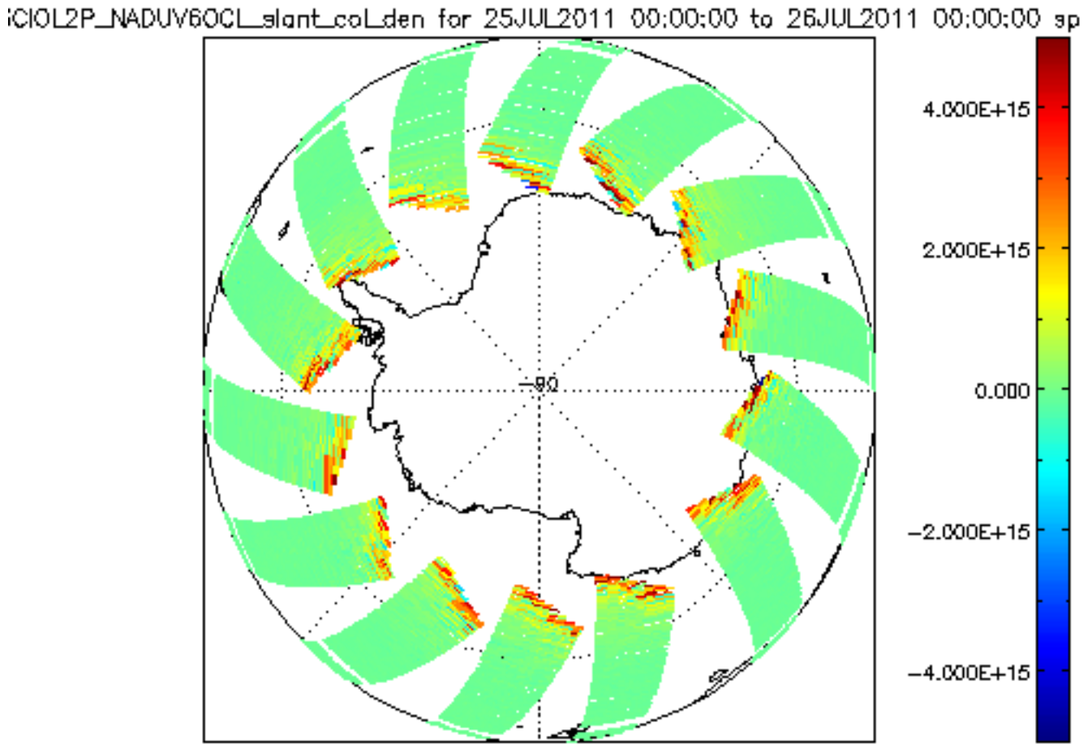
SCIOL2P_NADUV7SO2_amf_cl for 25JUL2011 00:00:00 to 26JUL2011 00:00:00

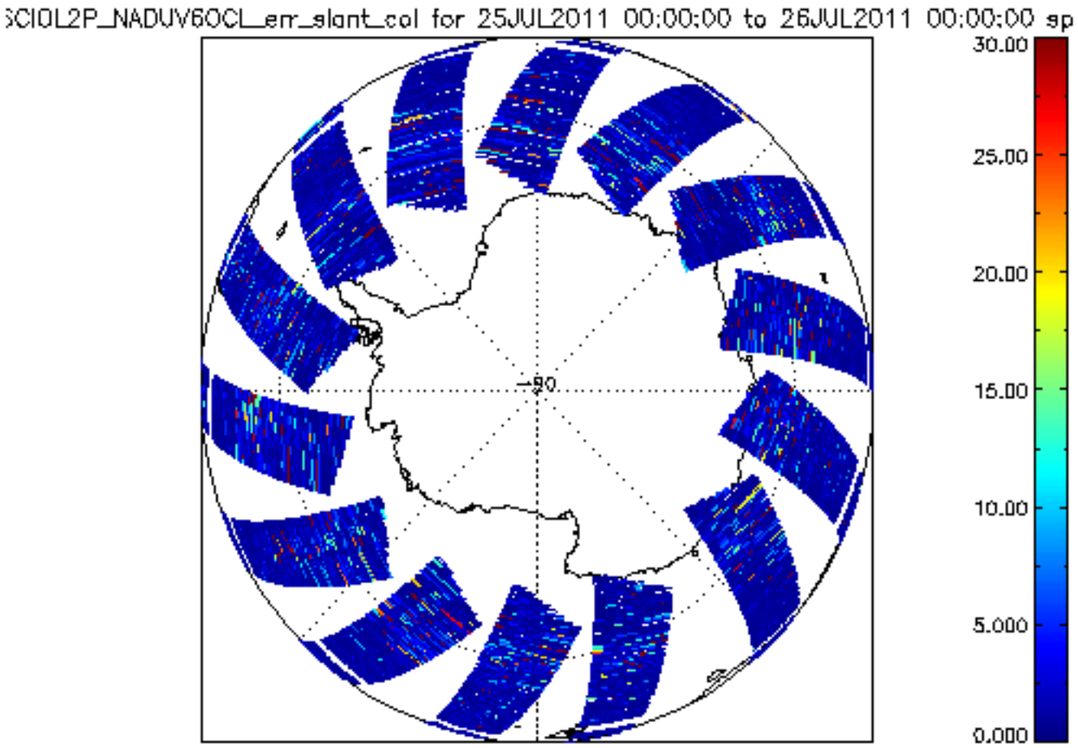


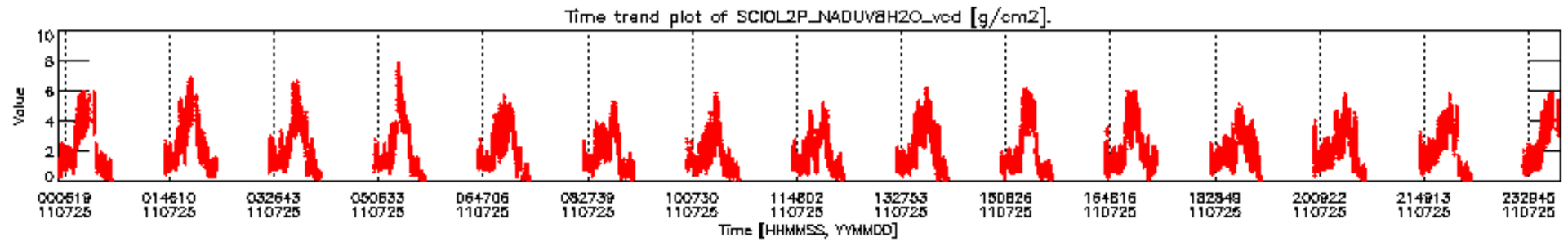

Time trend plot of SCIOL2P_NADUV6OCL_slant_col_den [molecules/cm2].
Value
4×10¹⁵
2×10¹⁵
0
−2×10¹⁵
−4×10¹⁵
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114602 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232845 110725
Time [HHMMSS, YYMMDD]
Time trend plot of SCIOL2P_NADUV6OCL_arr_slant_col [%].
Value
30
25
20
15
10
5
0
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114602 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232845 110725
Time [HHMMSS, YYMMDD]

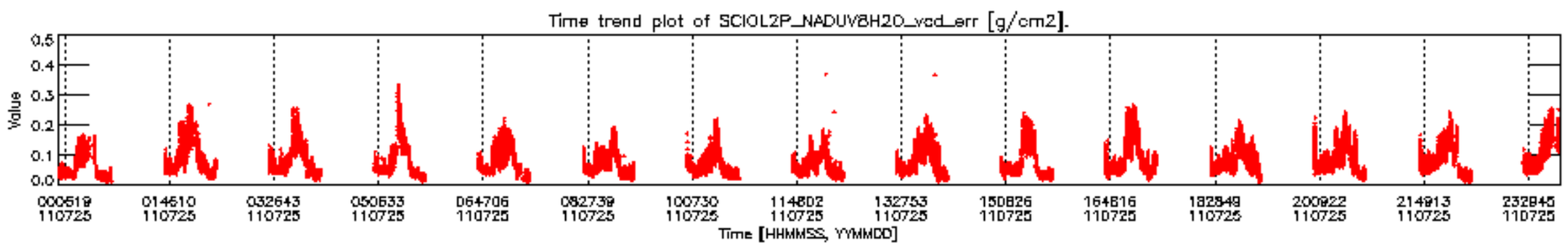

SCIOL2P_NADUV6OCL_slant_col_den for 25JUL2011 00:00:00 to 26JUL2011 00:00:00 np
4.000E+15
2.000E+15
0.000
−2.000E+15
−4.000E+15

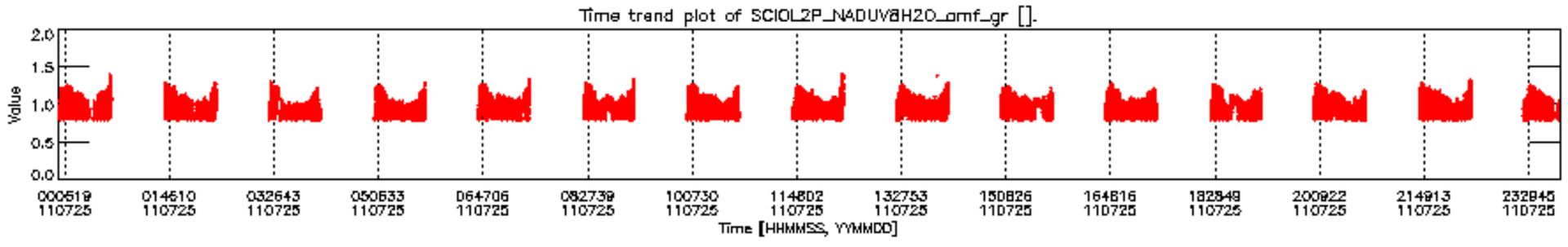

SCIOL2P_NADUV6OCL_err_slant_col for 25JUL2011 00:00:00 to 26JUL2011 00:00:00 np
30.00
25.00
20.00
15.00
10.00
5.000
0.000

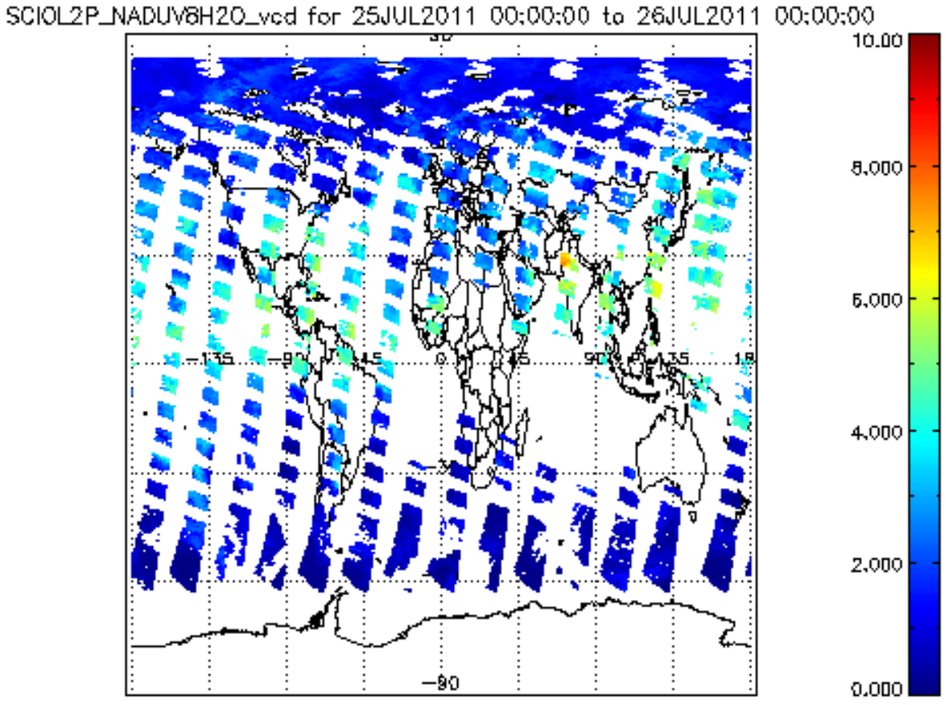

SCIOL2P_NADUV6OCL_slant_col_den for 25JUL2011 00:00:00 to 26JUL2011 00:00:00 sp
4.000E+15
2.000E+15
0.000
−2.000E+15
−4.000E+15
−90

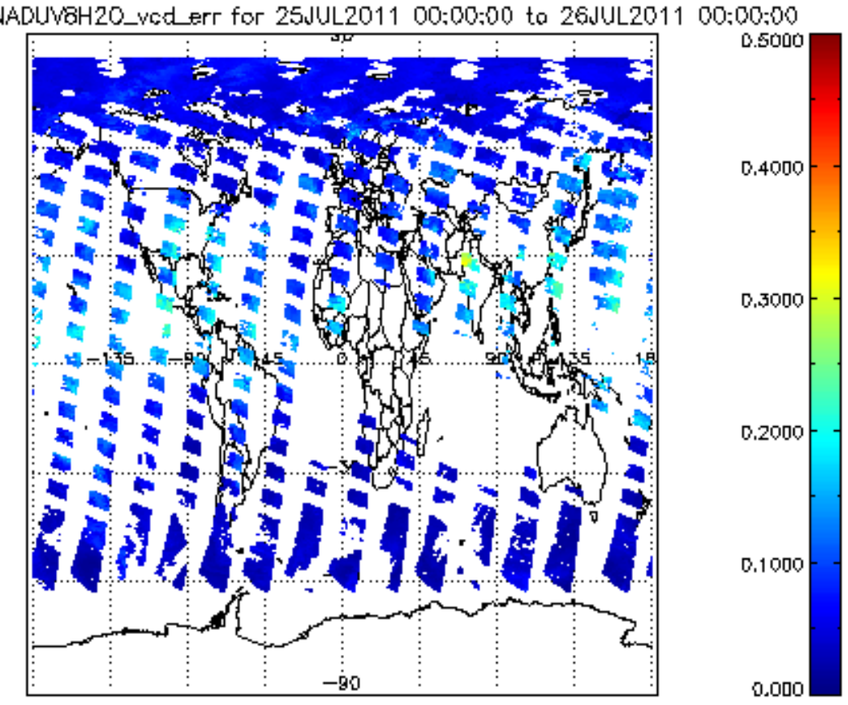

SCIOL2P_NADUV6OCL_err_slant_col for 25JUL2011 00:00:00 to 26JUL2011 00:00:00 sp
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−90

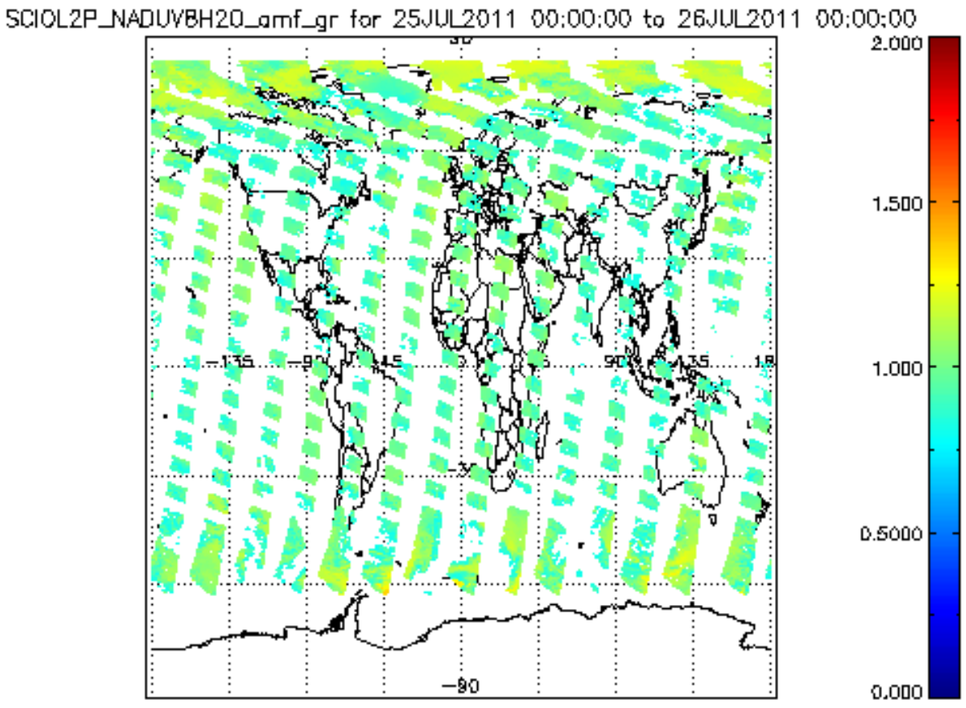

Time trend plot of SCIOL2P_NADUVBH2O_vcd [g/cm2].
Value
10
8
6
4
2
0
000519 110725
014610 110725
032643 110725
050633 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]

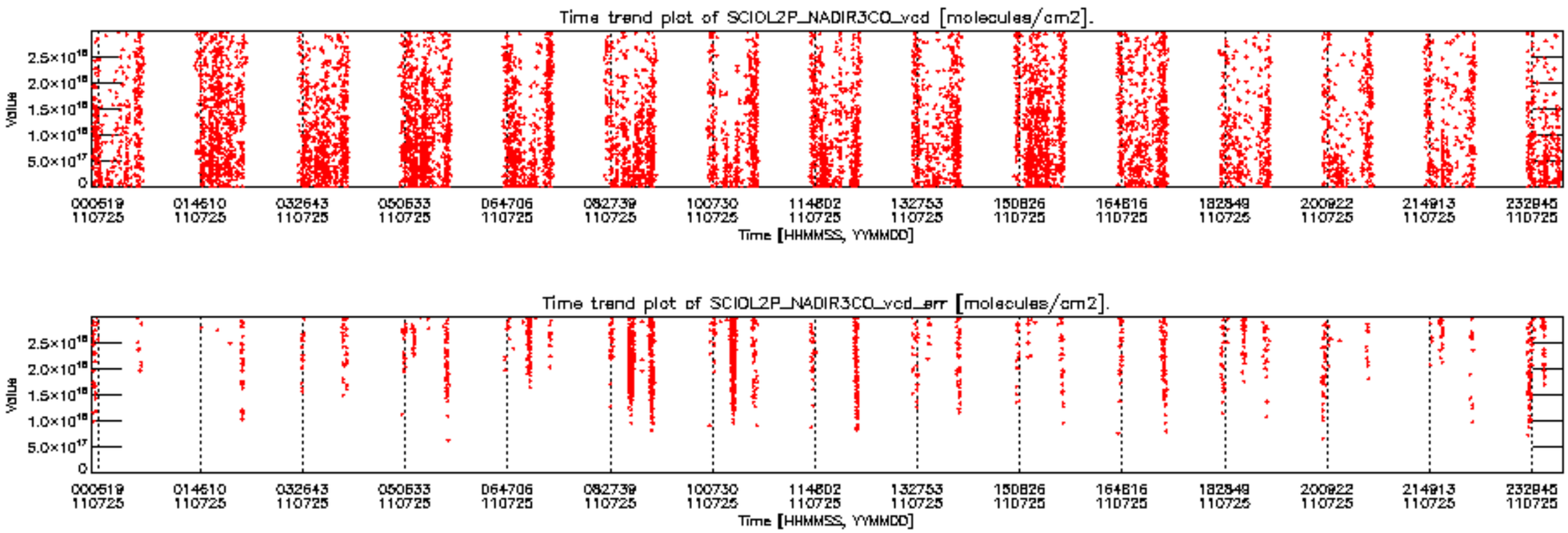

Time trend plot of SCIOL2P_NADUVBH2O_vcd_err [g/cm2].
Value
0.5
0.4
0.3
0.2
0.1
0.0
000519 110725
014610 110725
032643 110725
050633 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]

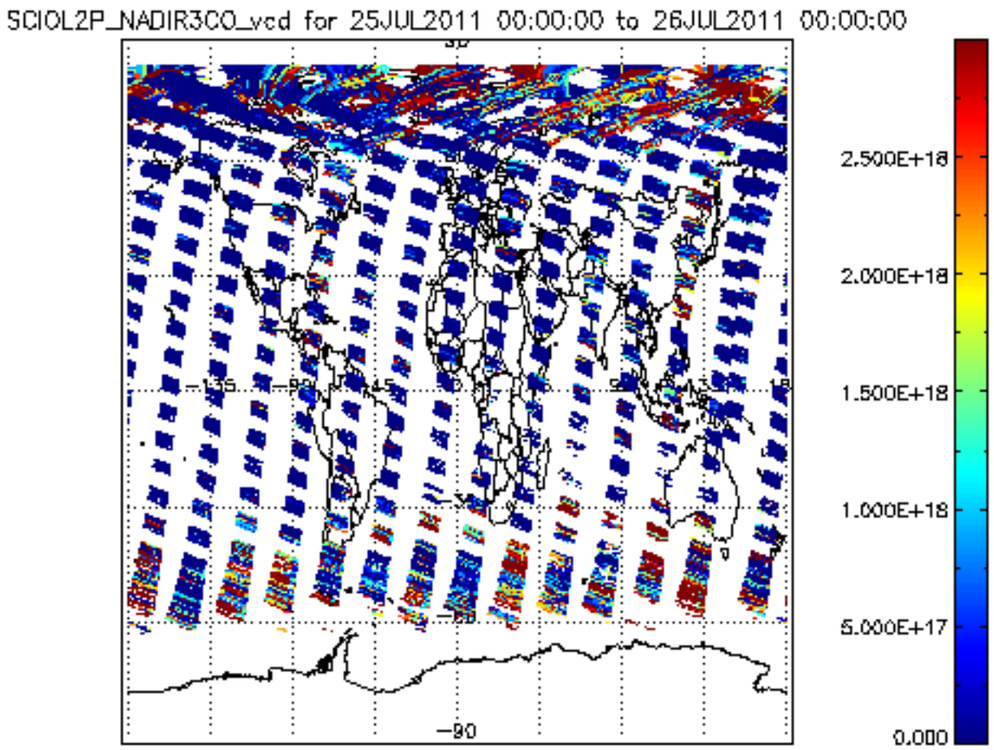

Time trend plot of SCIOL2P_NADUVBH2O_amf_gr [].
Value
2.0
1.5
1.0
0.5
0.0
000519 110725
014610 110725
032643 110725
050633 110725
064706 110725
082739 110725
100730 110725
114802 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232945 110725
Time [HHMMSS, YYMMDD]

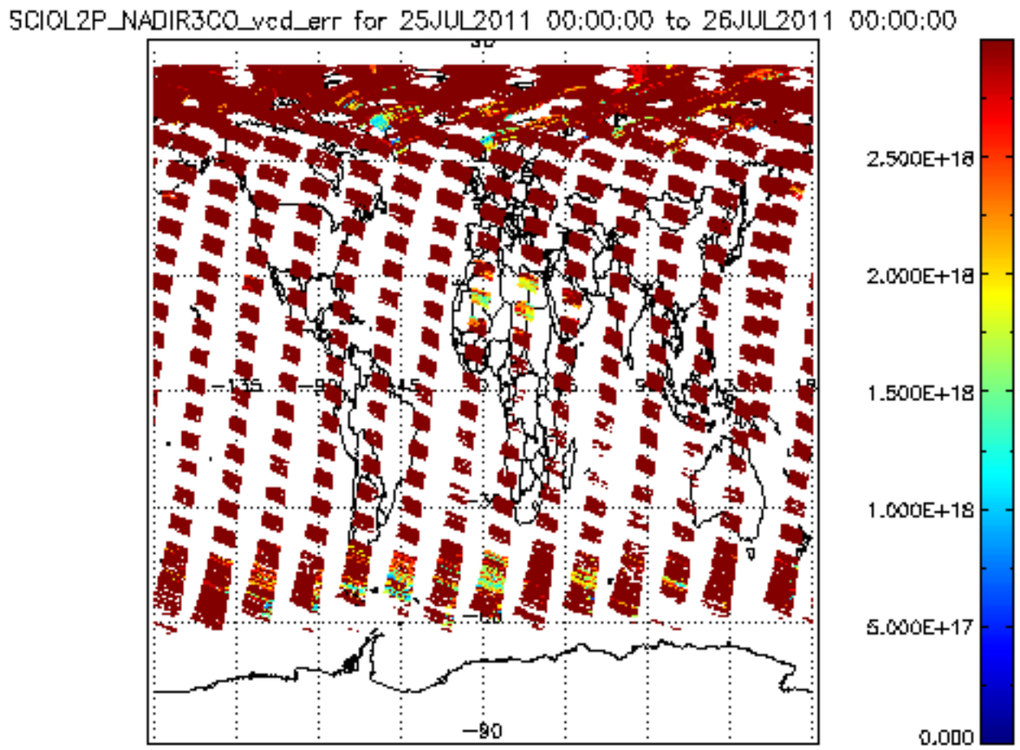

SCIOL2P_NADUV8H2O_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
10.00
8.000
6.000
4.000
2.000
0.000
−90

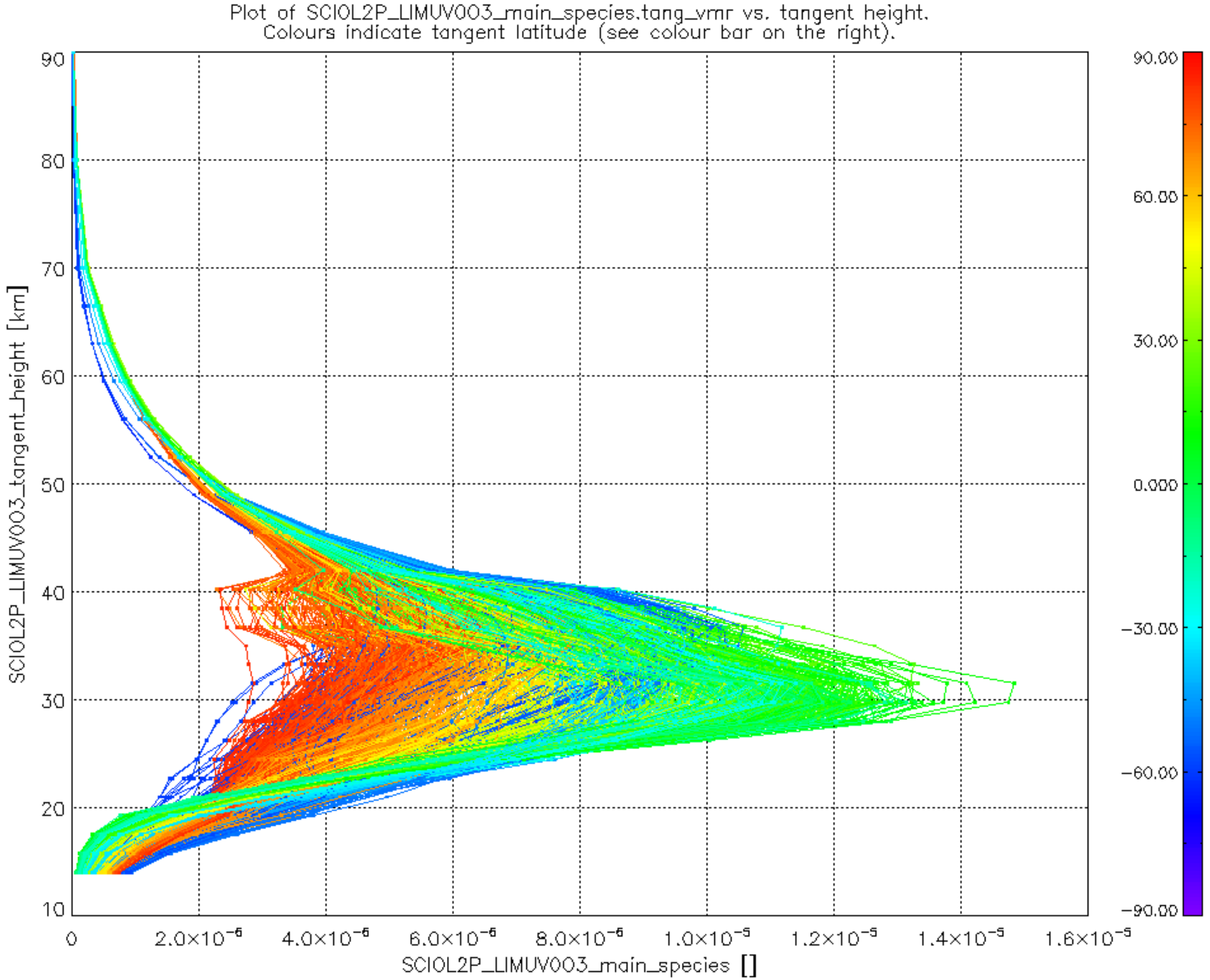

SCIOL2P_NADUV8H2O_vcd_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
0.5000
0.4000
0.3000
0.2000
0.1000
0.000
−90


SCIOL2P_NADUV8H2O_amf_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00
2.000
1.500
1.000
0.5000
0.000
−90

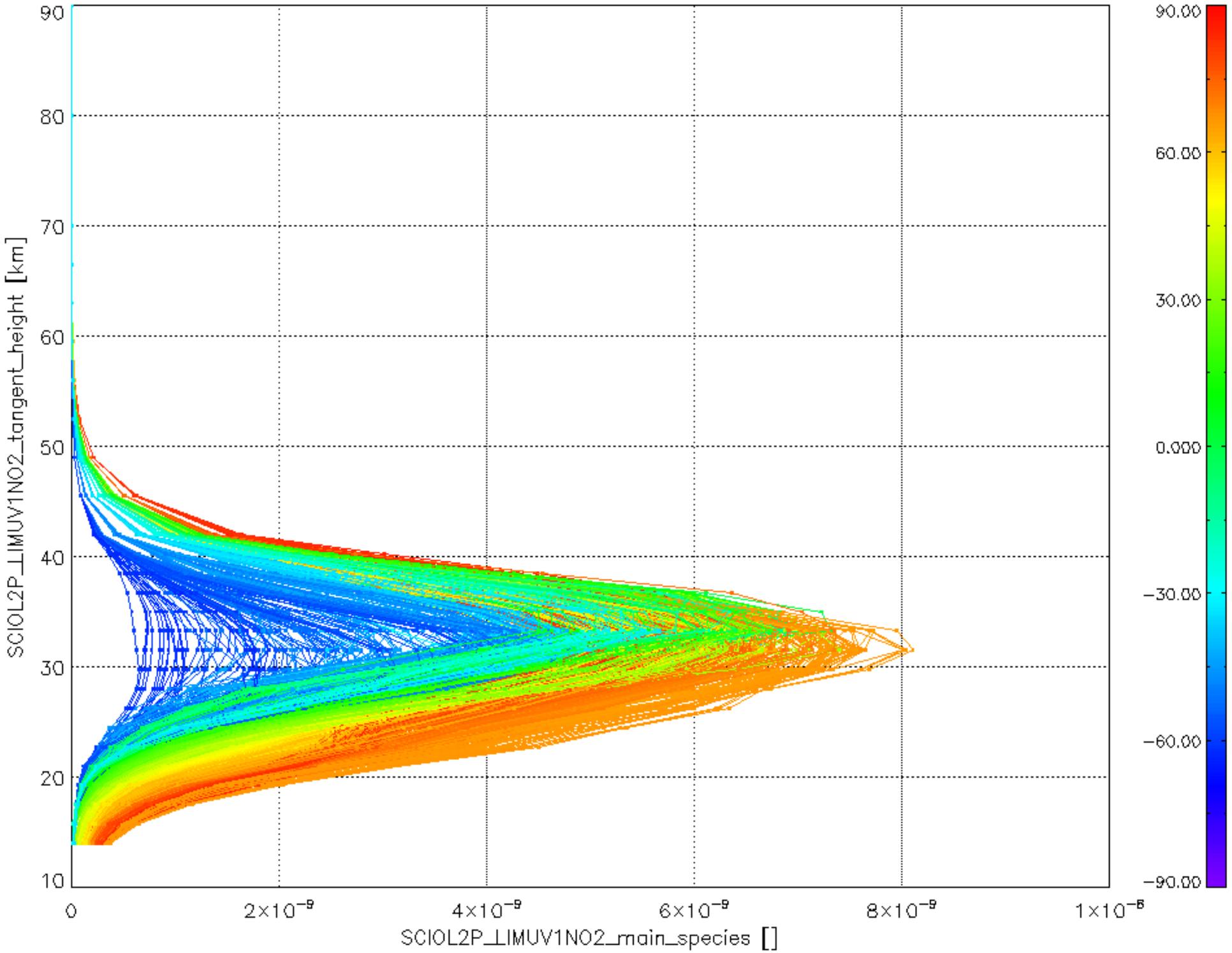

Time trend plot of SCIOL2P_NADIR3CO_vcd [molecules/cm2].
Value
2.5×10^18
2.0×10^18
1.5×10^18
1.0×10^18
5.0×10^17
0
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114602 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232845 110725
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
000519 110725
014610 110725
032643 110725
050533 110725
064706 110725
082739 110725
100730 110725
114602 110725
132753 110725
150826 110725
164816 110725
182849 110725
200922 110725
214913 110725
232845 110725
Time [HHMMSS, YYMMDD]


SCIOL2P_NADIR3CO_vcd for 25JUL2011 00:00:00 to 26JUL2011 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 25JUL2011 00:00:00 to 26JUL2011 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
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).