

## 2. SCIAMACHY Daily Report for Level 2 products

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## 2.1 General Info

This report contains a daily analysis on parameters extracted from SCIAMACHY Level 2 data (the SCI\_OL\_\_2P product).

### 2.1.1 Report summary

The table below shows general characteristics of the data that are included into this report.

| Item                                     | Value                                    |
|--|--|
| Report version                           | 1.13 (28-02-2011)                        |
| Time of report generation                | 07AUG2011 03:00:52                       |
| Data source version                      | SCIA-OL/5.01-U                           |
| 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         | 15                                       |
| 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 | <a href="#">SCI_OL__2PUDPA20110724_235427_000035303105_00002_49154_5676.N1</a> | 24JUL2011 23:54:27 | 25JUL2011 00:53:17 | 0        | GOOD        |
| 1 | <a href="#">SCI_OL__2PUDPA20110725_013441_000035163105_00003_49155_5677.N1</a> | 25JUL2011 01:34:41 | 25JUL2011 02:33:17 | 0        | GOOD        |
| 2 | <a href="#">SCI_OL__2PUDPA20110725_031455_000035303105_00004_49156_5678.N1</a> | 25JUL2011 03:14:55 | 25JUL2011 04:13:45 | 0        | GOOD        |
| 3 | <a href="#">SCI_OL__2PUDPA20110725_045509_000035163105_00005_49157_5679.N1</a> | 25JUL2011 04:55:09 | 25JUL2011 05:53:45 | 0        | GOOD        |
| 4 | <a href="#">SCI_OL__2PUDPA20110725_063524_000035303105_00006_49158_5650.N1</a> | 25JUL2011 06:35:24 | 25JUL2011 07:34:14 | 0        | GOOD        |

|    |  |                    |                    |   |      |
|----|--|--------------------|--------------------|---|------|
| 5  | SCI_OL__2PUDPA20110725_081538_000035163105_00007_49159_5651.N1 | 25JUL2011 08:15:38 | 25JUL2011 09:14:14 | 0 | GOOD |
| 6  | SCI_OL__2PUDPA20110725_095552_000035303105_00008_49160_5652.N1 | 25JUL2011 09:55:52 | 25JUL2011 10:54:42 | 0 | GOOD |
| 7  | SCI_OL__2PUDPA20110725_113606_000035163105_00009_49161_5653.N1 | 25JUL2011 11:36:06 | 25JUL2011 12:34:42 | 0 | GOOD |
| 8  | SCI_OL__2PUDPA20110725_131620_000035303105_00010_49162_5654.N1 | 25JUL2011 13:16:20 | 25JUL2011 14:15:11 | 0 | GOOD |
| 9  | SCI_OL__2PUDPA20110725_145634_000035163105_00011_49163_5669.N1 | 25JUL2011 14:56:34 | 25JUL2011 15:55:11 | 0 | GOOD |
| 10 | SCI_OL__2PUDPA20110725_163649_000035303105_00012_49164_5680.N1 | 25JUL2011 16:36:49 | 25JUL2011 17:35:39 | 0 | GOOD |
| 11 | SCI_OL__2PUDPA20110725_181714_000035163105_00013_49165_5683.N1 | 25JUL2011 18:17:14 | 25JUL2011 19:15:50 | 0 | GOOD |
| 12 | SCI_OL__2PUDPA20110725_195728_000035303105_00014_49166_5684.N1 | 25JUL2011 19:57:28 | 25JUL2011 20:56:19 | 0 | GOOD |
| 13 | SCI_OL__2PUDPA20110725_213731_000035163105_00015_49167_5681.N1 | 25JUL2011 21:37:31 | 25JUL2011 22:36:08 | 0 | GOOD |
| 14 | SCI_OL__2PUDPA20110725_231746_000035303105_00016_49168_5682.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: 171637

Total number of cloud data DSRs with good quality flag (=0): 171637 (100.0 %)

| Parameter         | #valid | Mean     | Median   | Min      | Max      | Stddev   | Unit |
|-------------------|--------|----------|----------|----------|----------|----------|------|
| QUALITY_FLAG      | 171637 | 0.0000   | 0.0000   | 0.0000   | 0.0000   | 0.0000   |      |
| INTEGR_TIME       | 171637 | 0.16583  | 0.12500  | 0.12500  | 0.25000  | 0.058621 | s    |
| CL_FRAC           | 171637 | 0.32943  | 0.28042  | 0.0000   | 1.0000   | 0.27678  |      |
| CL_FRAC_ERR       | 171637 | 0.0000   | 0.0000   | 0.0000   | 0.0000   | 0.0000   | %    |
| PMD_READ          | 171637 | 5.3064   | 4.0000   | 4.0000   | 8.0000   | 1.8759   |      |
| PMD_READ_CL[0]    | 171637 | 0.27266  | 0.0000   | 0.0000   | 8.0000   | 1.1050   | -    |
| PMD_READ_CL[1]    | 171637 | 1.3696   | 0.0000   | 0.0000   | 8.0000   | 2.5162   | -    |
| CL_TOP_HEIGHT     | 133736 | 3.5915   | 1.7396   | 0.0000   | 17.000   | 3.7808   | km   |
| CL_TOP_HEIGHT_ERR | 0      | ---      | ---      | ---      | ---      | ---      | ---  |
| CL_OPT_DEPTH      | 133736 | 64.155   | 100.00   | 0.0000   | 101.00   | 43.007   | km   |
| CL_OPT_DEPTH_ERR  | 0      | ---      | ---      | ---      | ---      | ---      | ---  |
| CL_TYPE_FLAGS     | 171637 | 11100000 | 11100000 | 11100000 | 11100000 | 0.0000   |      |
| CLOUD_FLAGS       | 171637 | 11001101 | 11000100 | 11000000 | 11100000 | 3636.0   |      |
| AERO_ABSO_IND     | 171637 | 0.22392  | 0.0000   | 0.0000   | 5.3791   | 0.50345  |      |
| AERO_IND_DIAG     | 171637 | 0.0000   | 0.0000   | 0.0000   | 0.0000   | 0.0000   |      |
| AERO_FLAGS        | 171637 | 01010011 | 00000000 | 00000000 | 11000000 | 24375.   |      |

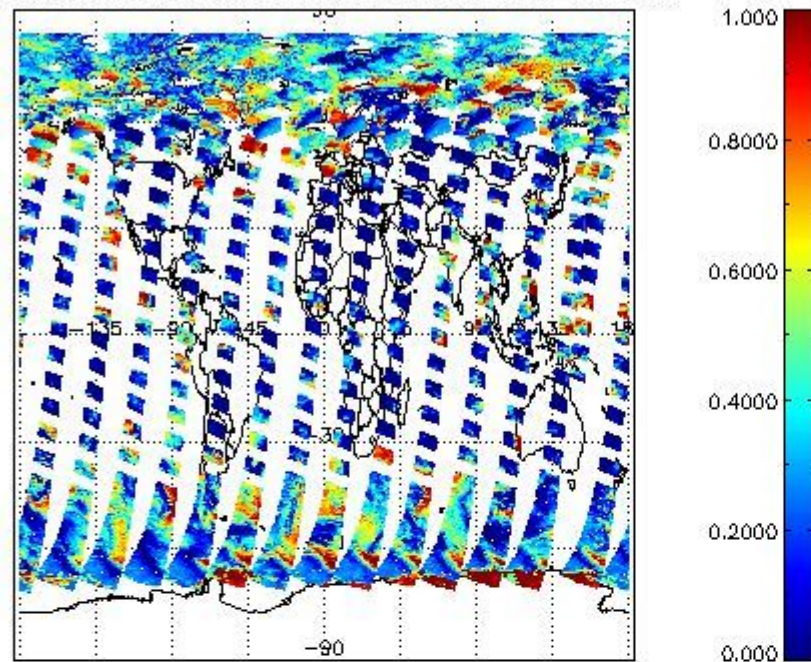
#### Time and geolocation plots:

Plots are available for the following parameters:

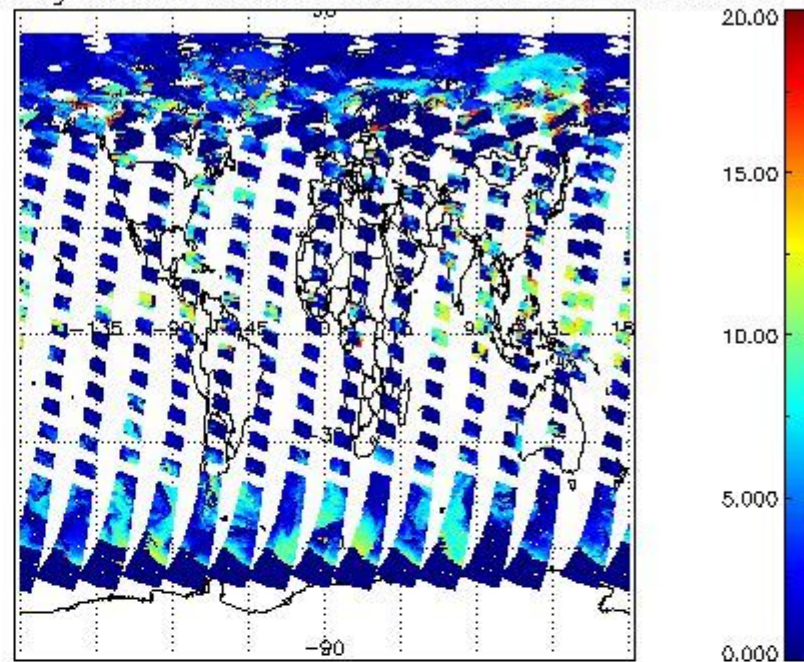
| Number | Data item ID  |
|--------|---------------|
| 0      | cl_frac       |
| 1      | cl_top_height |
| 2      | cl_opt_depth  |
| 3      | cloud_flags   |



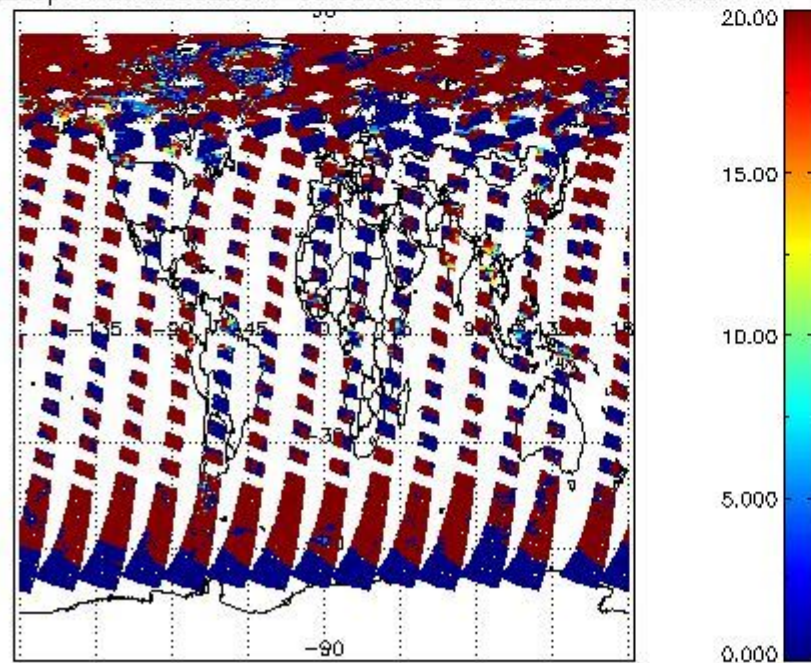
cL\_frac for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



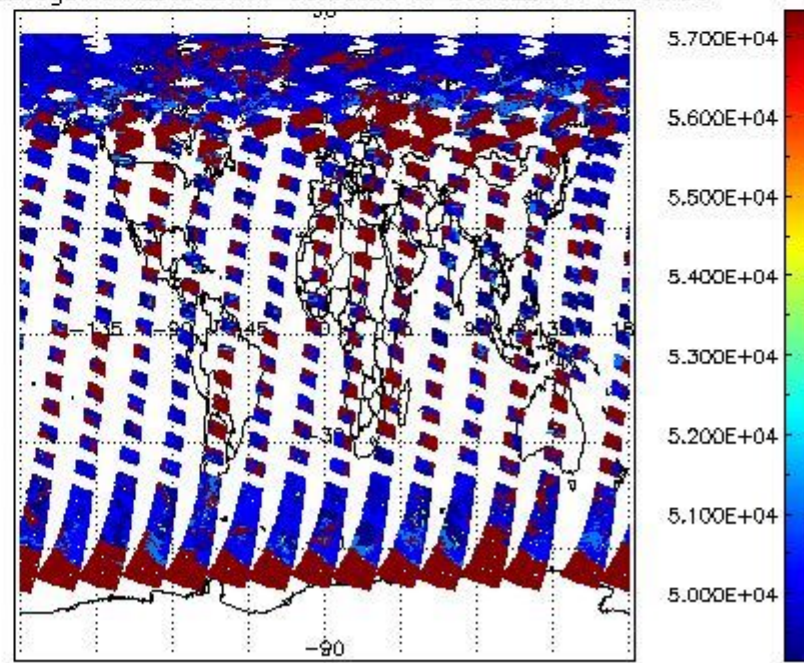
cL\_top\_height for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



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



## 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:

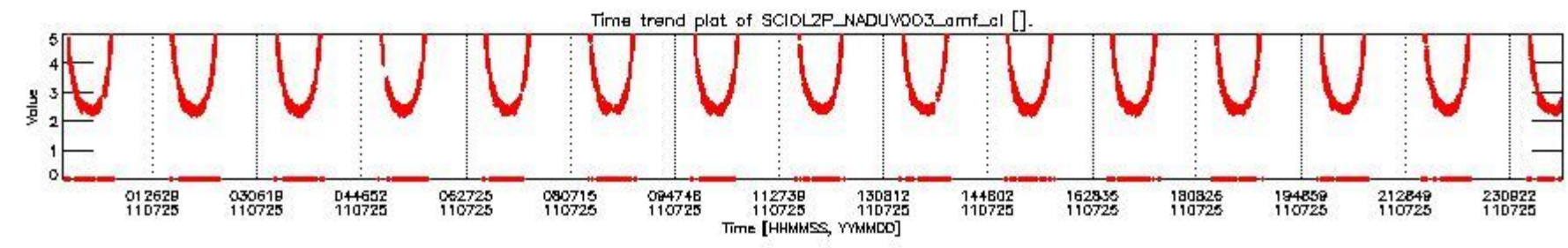
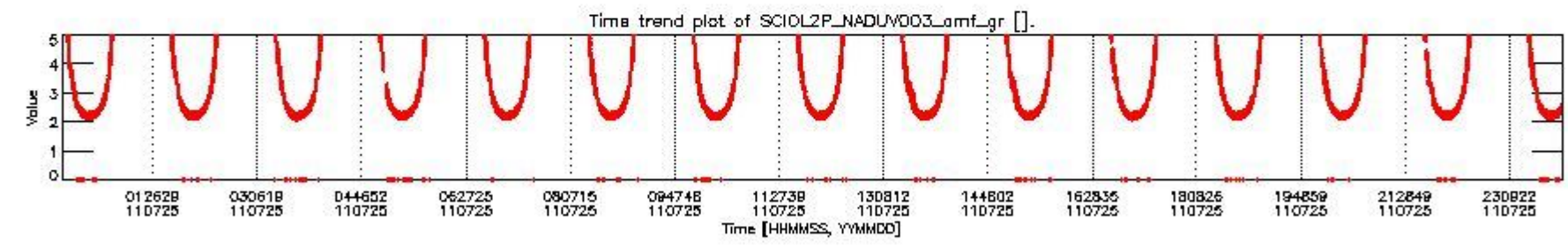
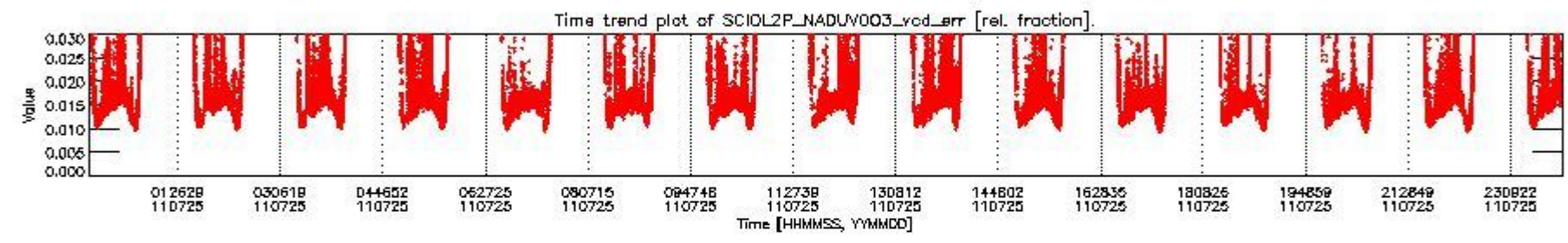
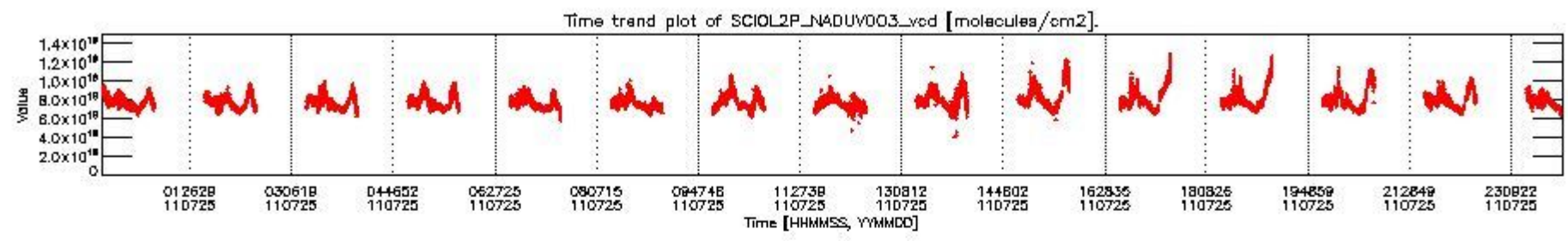
| Number | Data item ID             |
|--------|--------------------------|
| 0      | SCIOL2P_NADUV003_vcd     |
| 1      | SCIOL2P_NADUV003_vcd_err |
| 2      | SCIOL2P_NADUV003_amf_gr  |

|    |                                 |
|----|---------------------------------|
| 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.

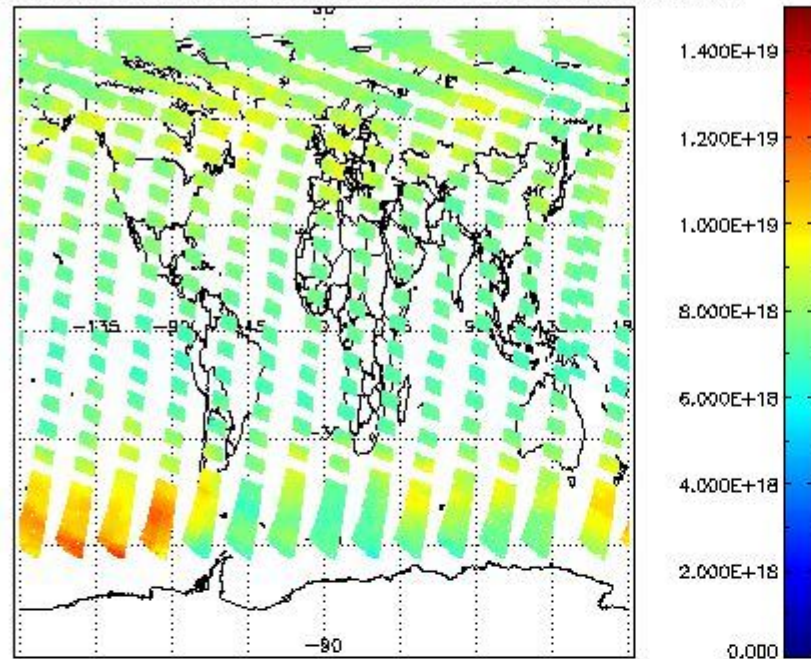
#### [2.2.2.1 O3 \(UV0\)](#)



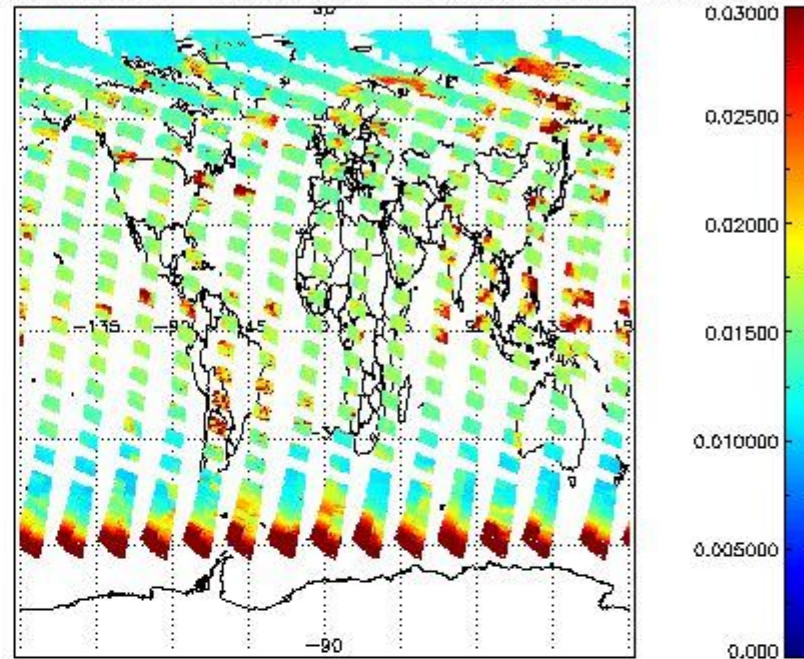




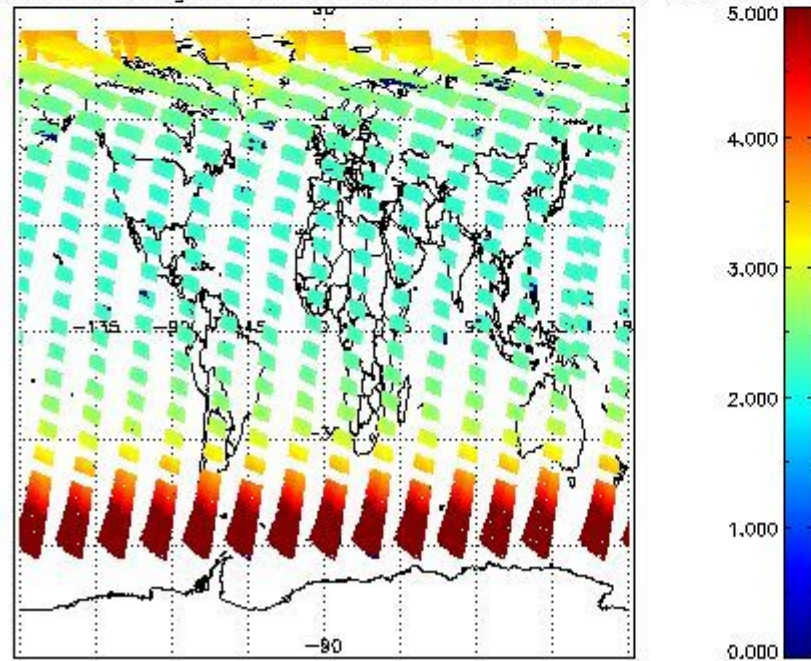
SCIOL2P\_NADUV003\_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



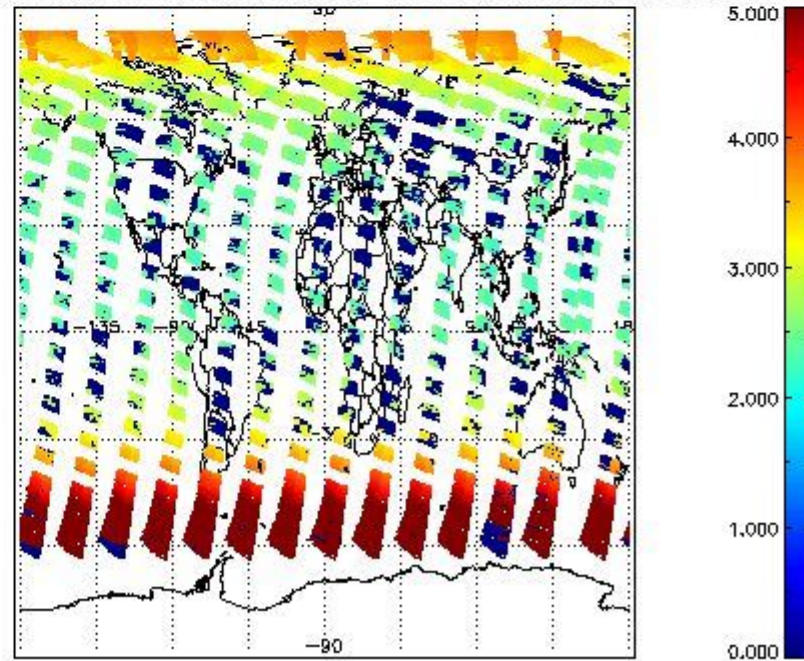
SCIOL2P\_NADUV003\_vcd\_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



SCIOL2P\_NADUV003\_amf\_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00

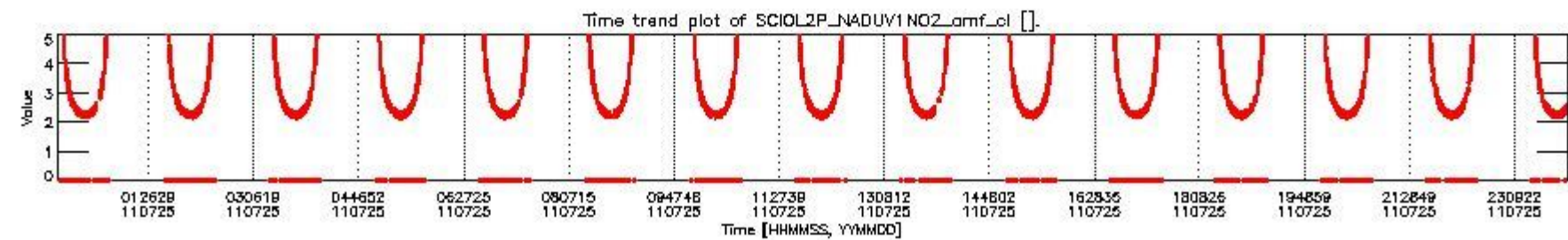
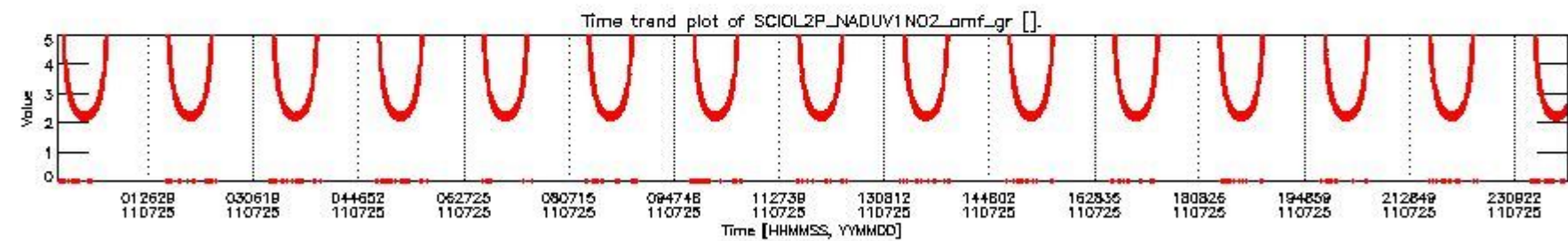
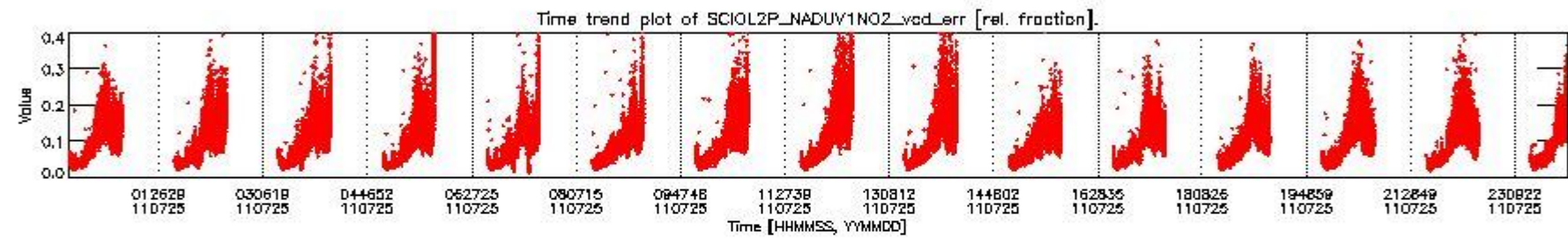
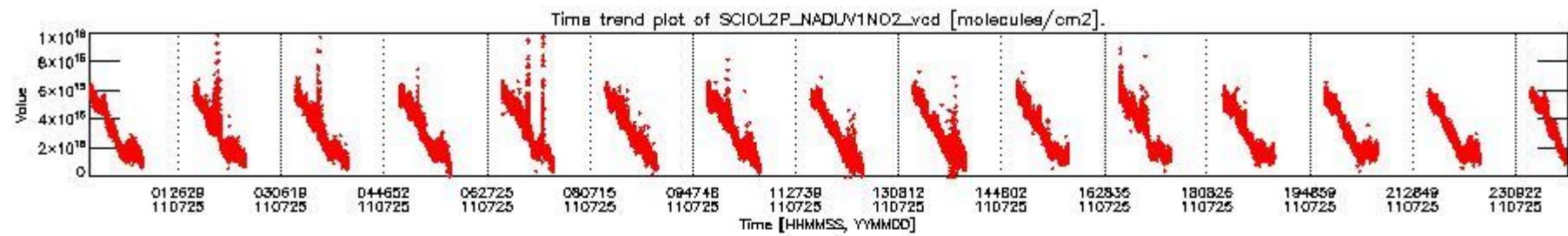


SCIOL2P\_NADUV003\_amf\_cl for 25JUL2011 00:00:00 to 26JUL2011 00:00:00

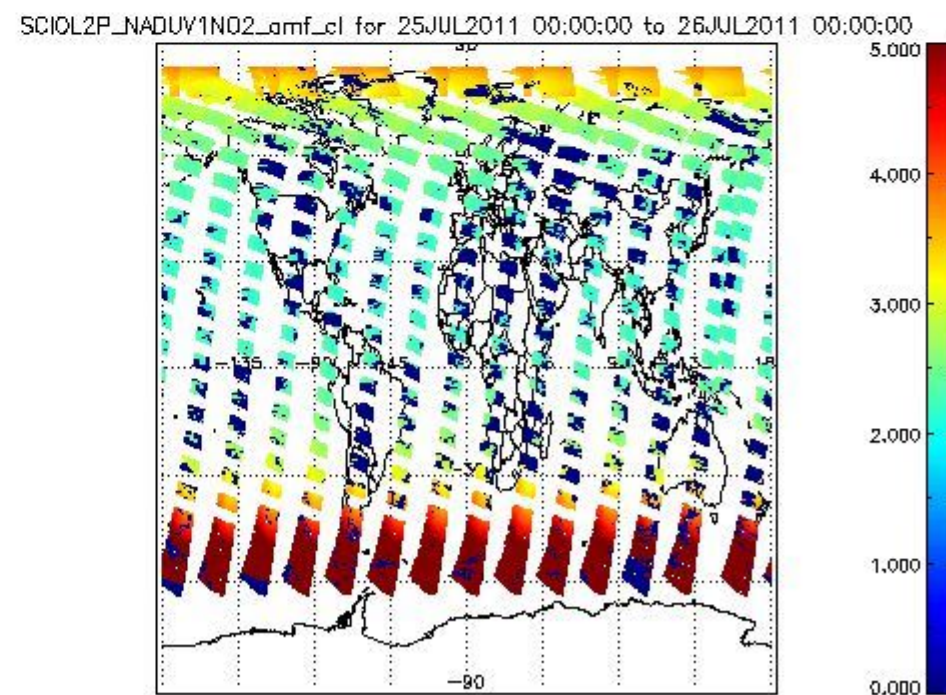
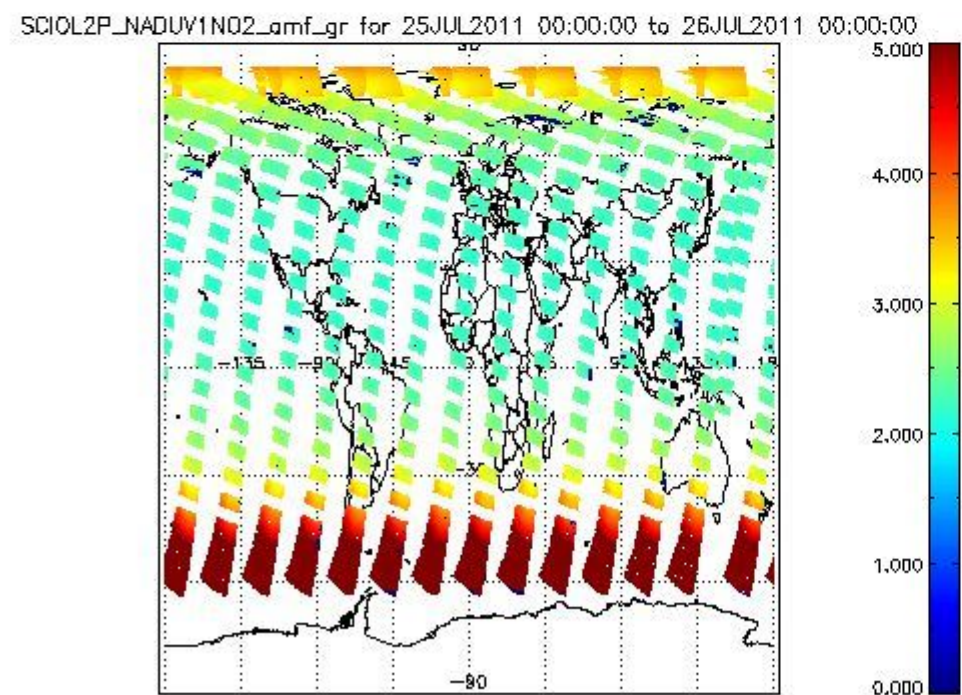
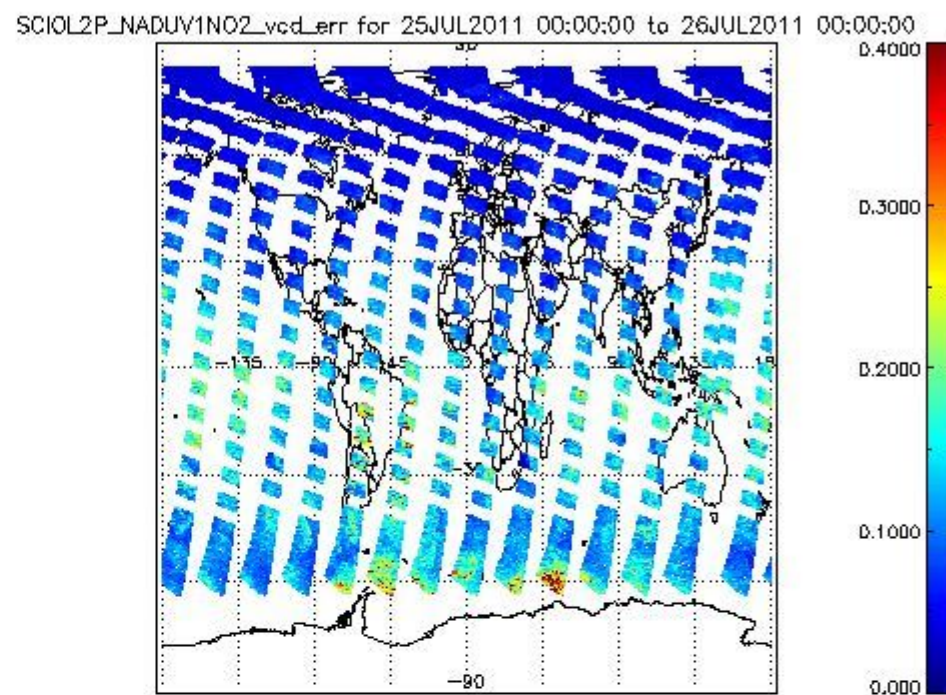
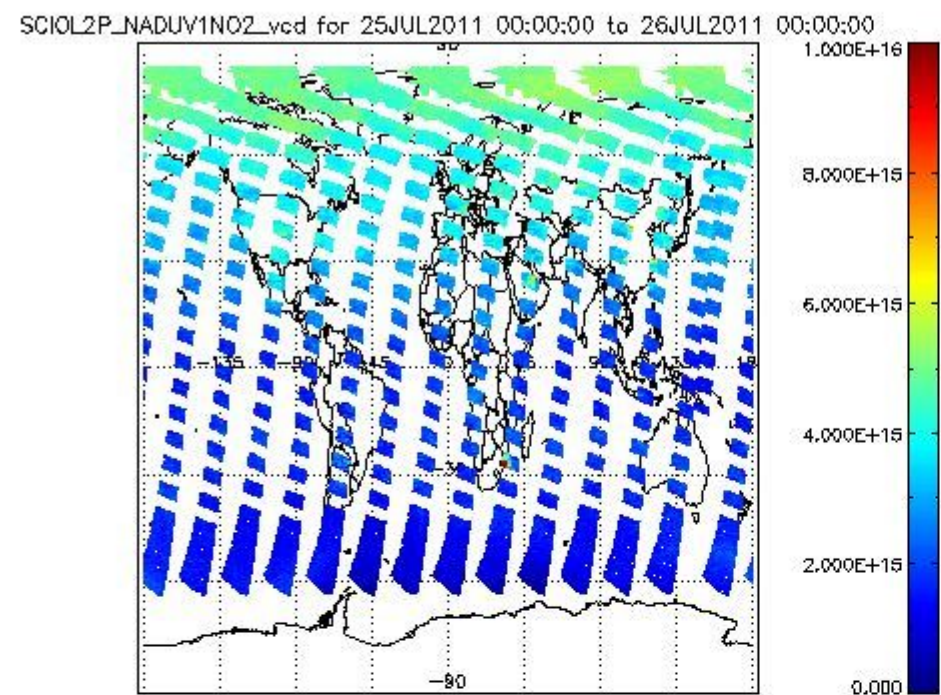


2.2.2.2 NO2 (UV1)



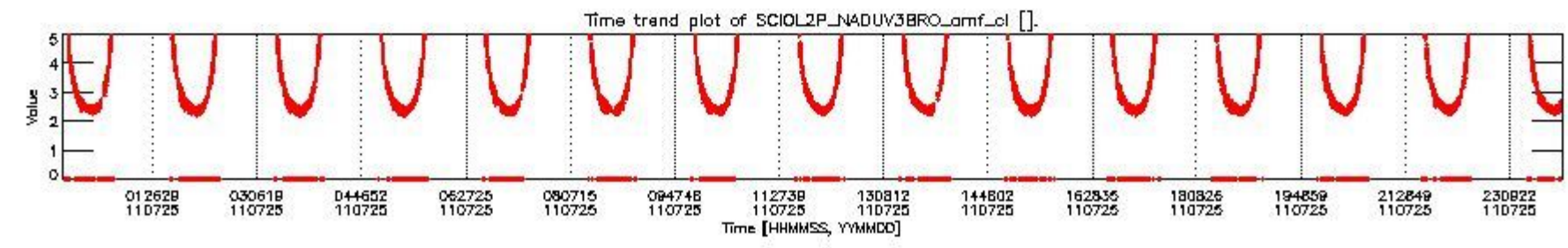
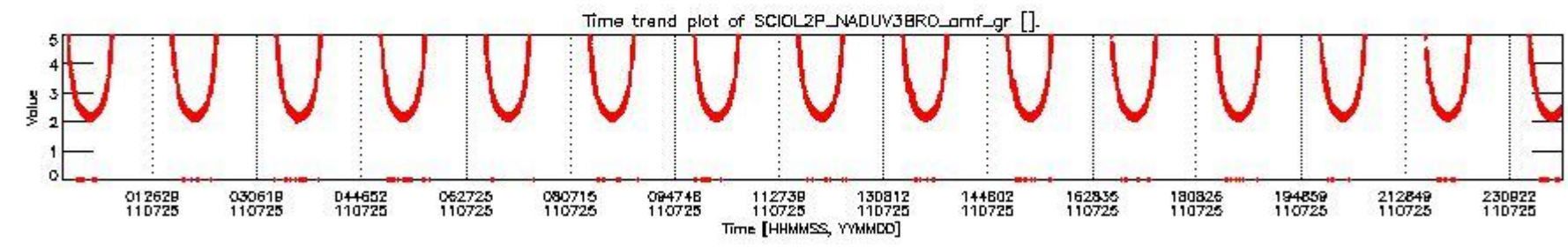
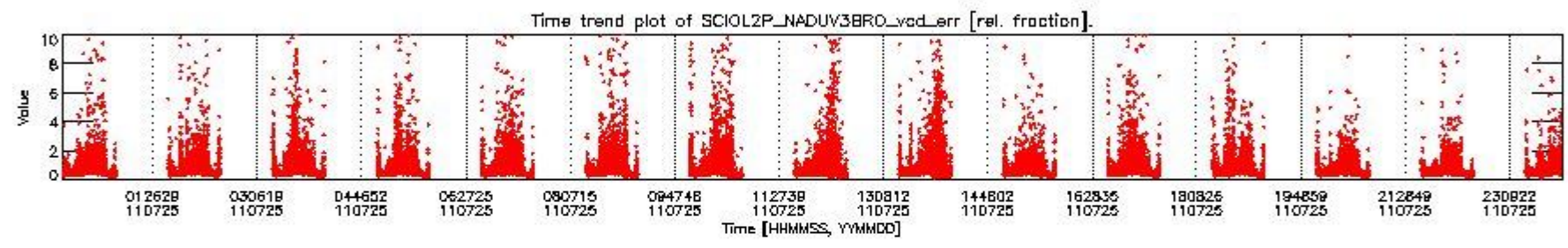
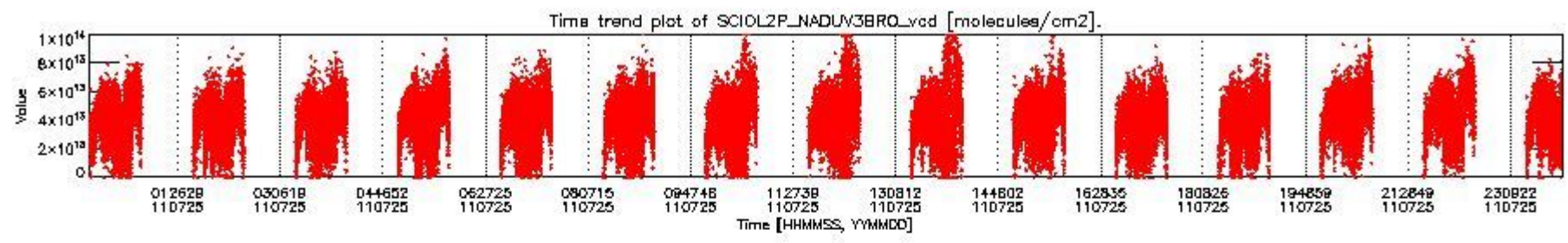






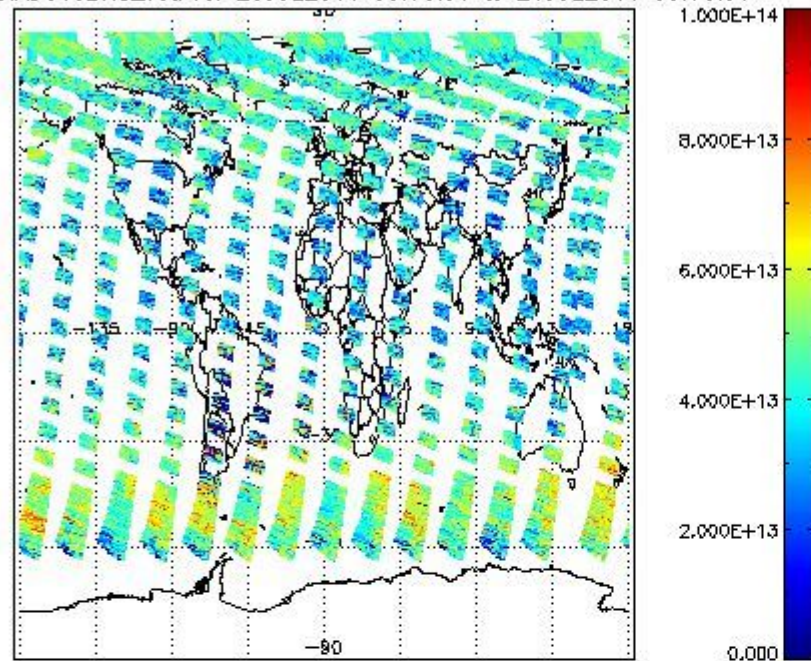
### 2.2.2.3 BrO (UV3)



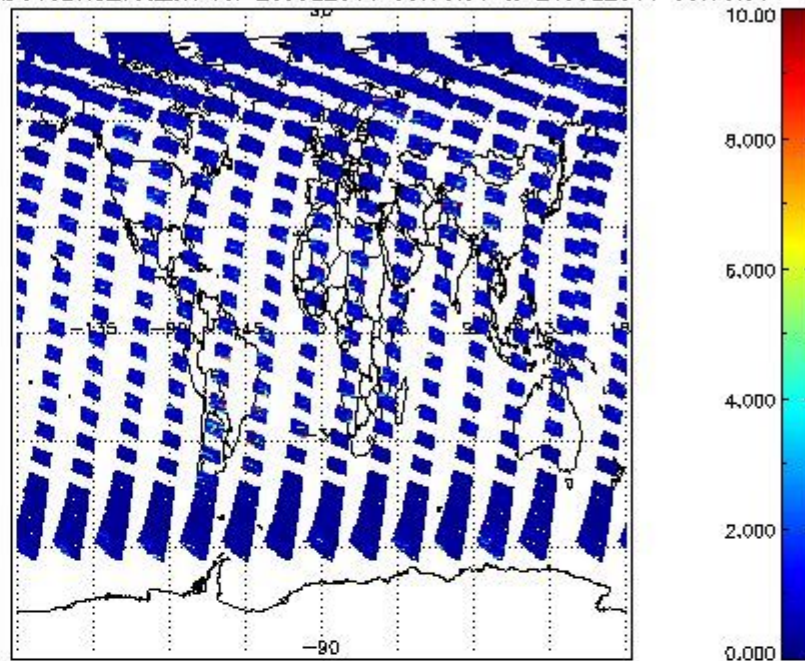




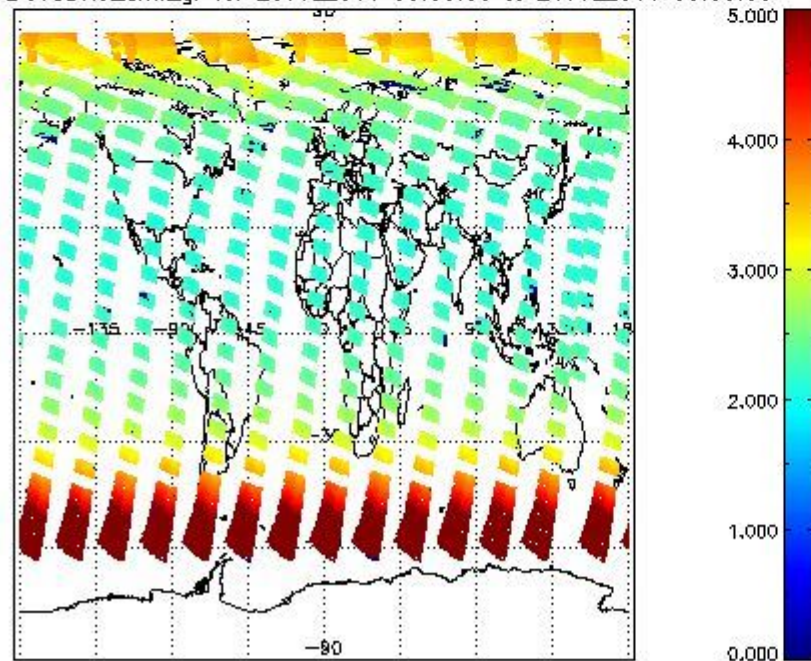
SCIOL2P\_NADUV3BRO\_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



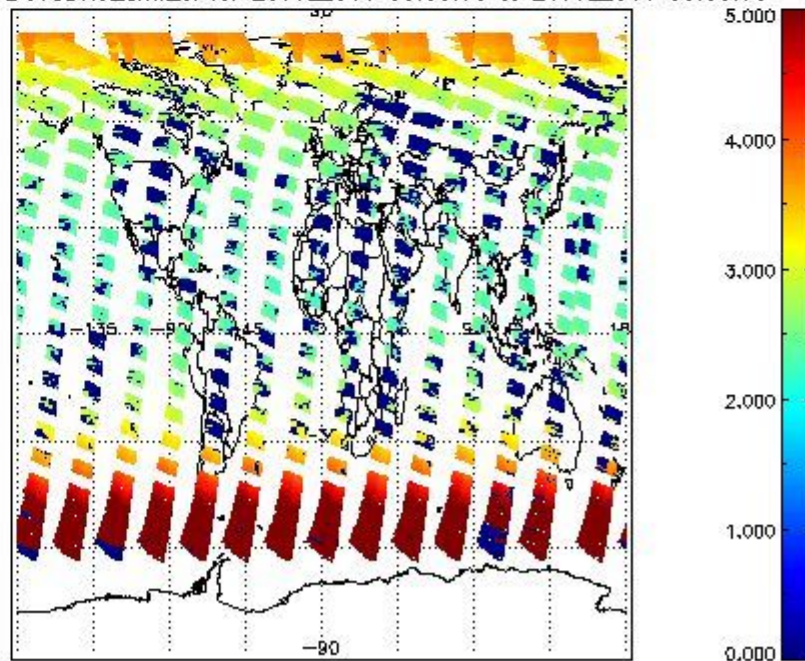
SCIOL2P\_NADUV3BRO\_vcd\_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



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



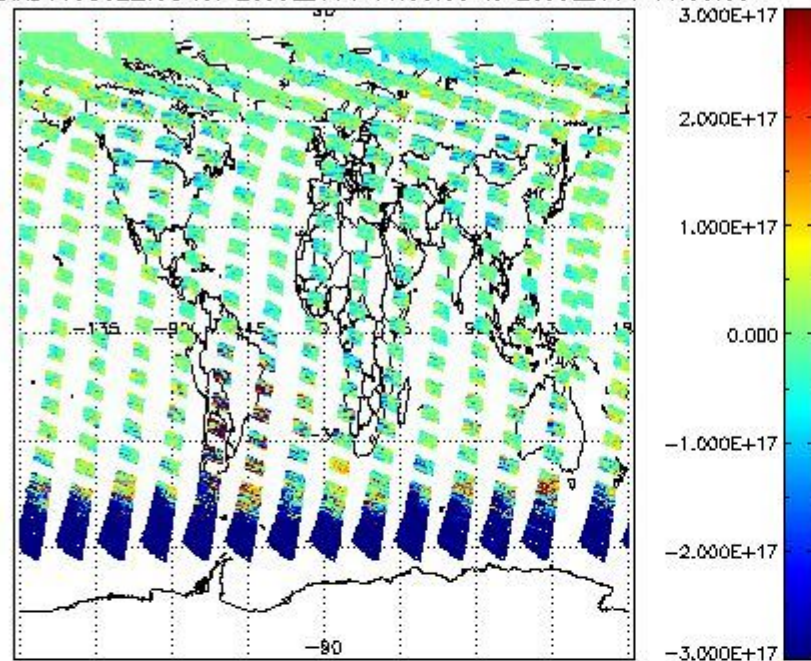
2.2.2.4 SO2 (UV5)



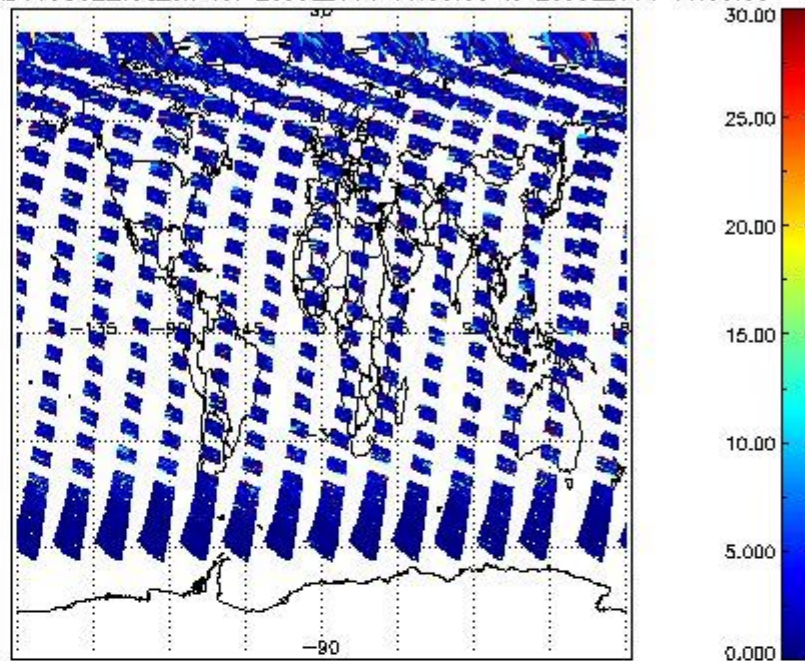




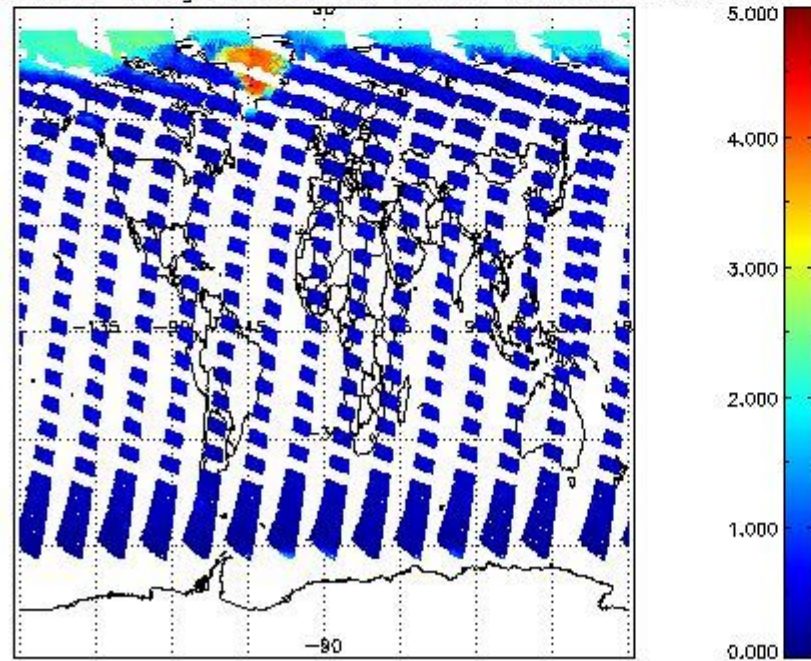
SCIOL2P\_NADUV5S02\_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



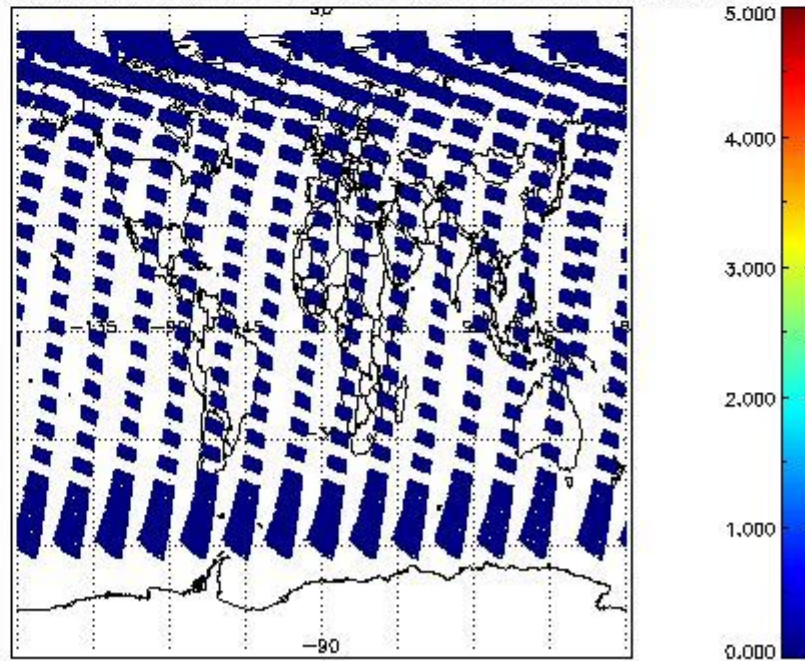
SCIOL2P\_NADUV5S02\_vcd\_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



SCIOL2P\_NADUV5S02\_amf\_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



SCIOL2P\_NADUV5S02\_amf\_cl for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



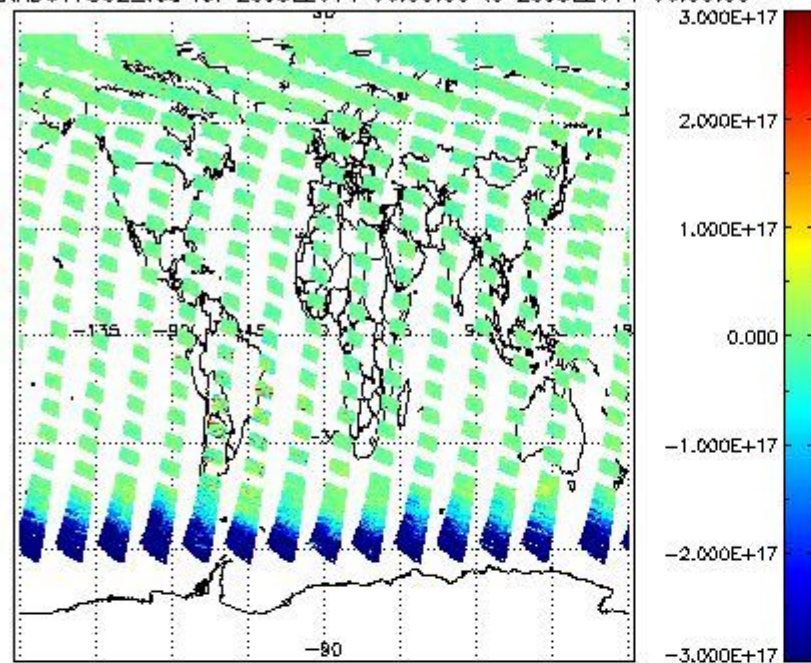
2.2.2.5 SO2 (UV7)



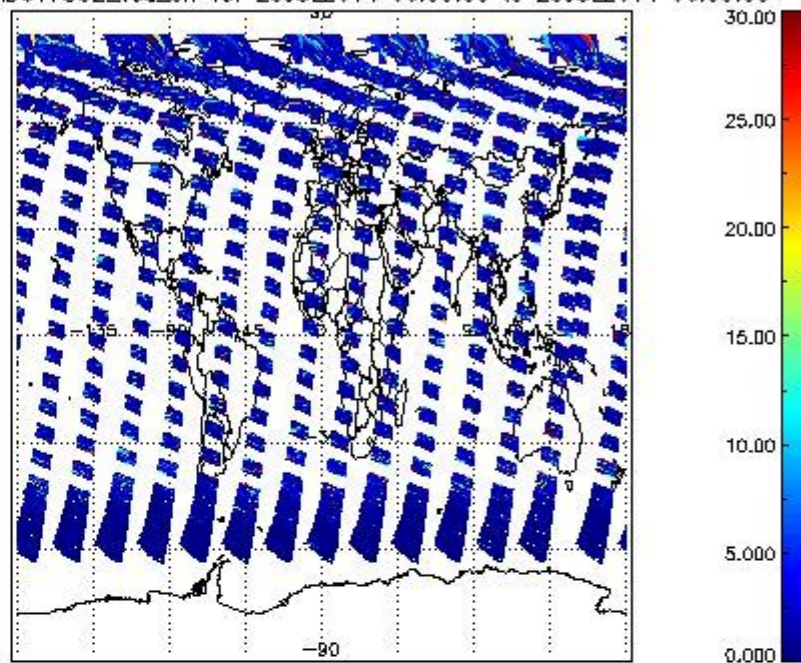




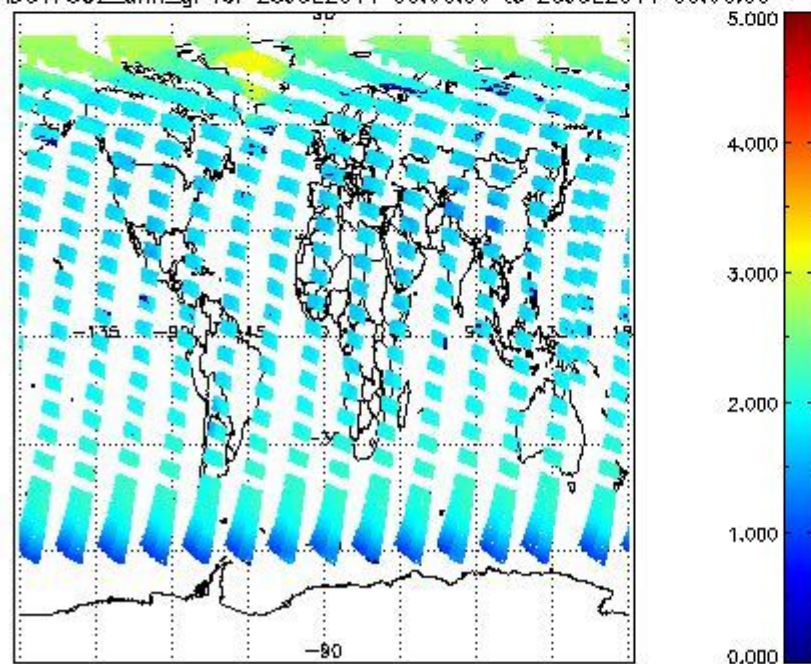
SCIOL2P\_NADUV7S02\_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



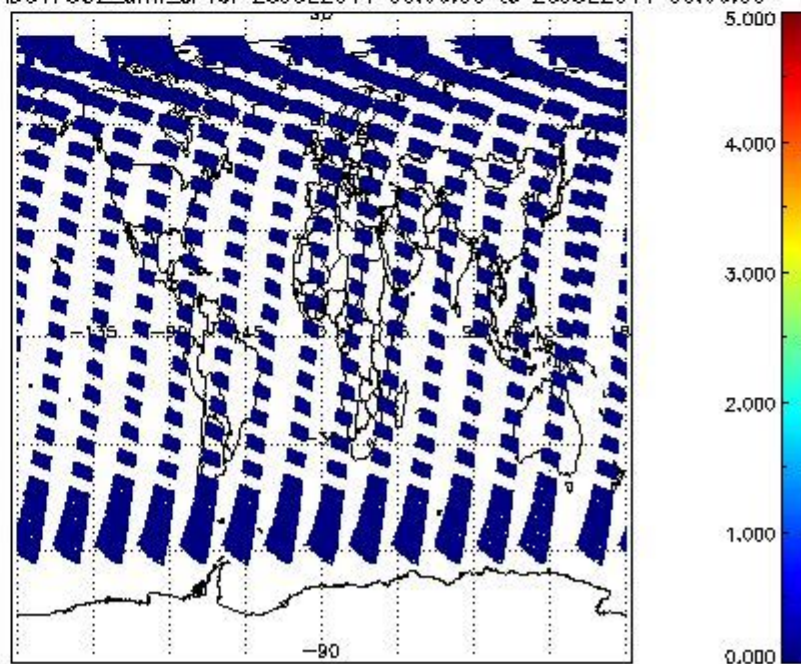
SCIOL2P\_NADUV7S02\_vcd\_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



SCIOL2P\_NADUV7S02\_amf\_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00

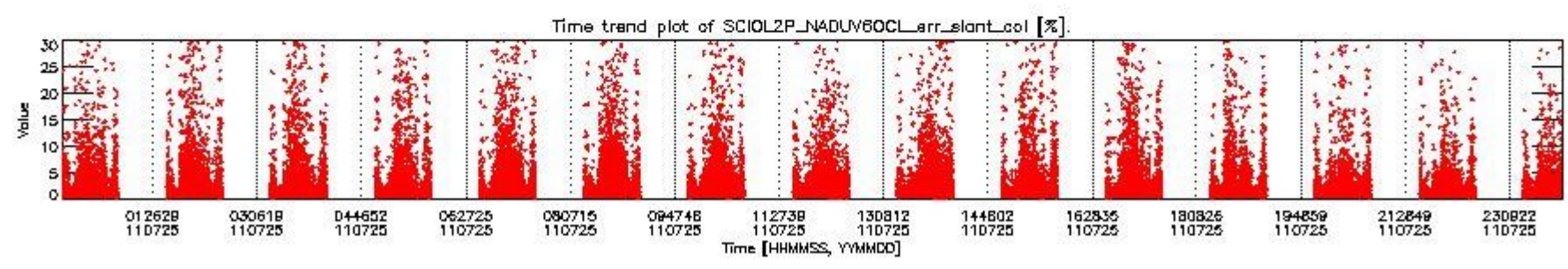
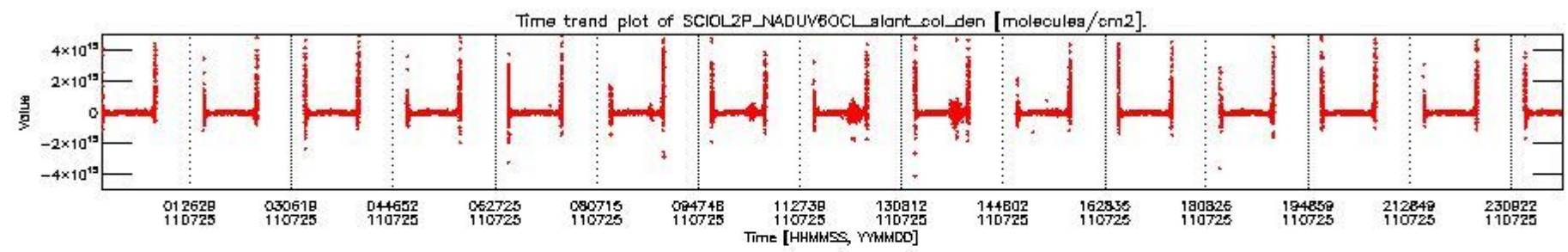


SCIOL2P\_NADUV7S02\_amf\_cl for 25JUL2011 00:00:00 to 26JUL2011 00:00:00

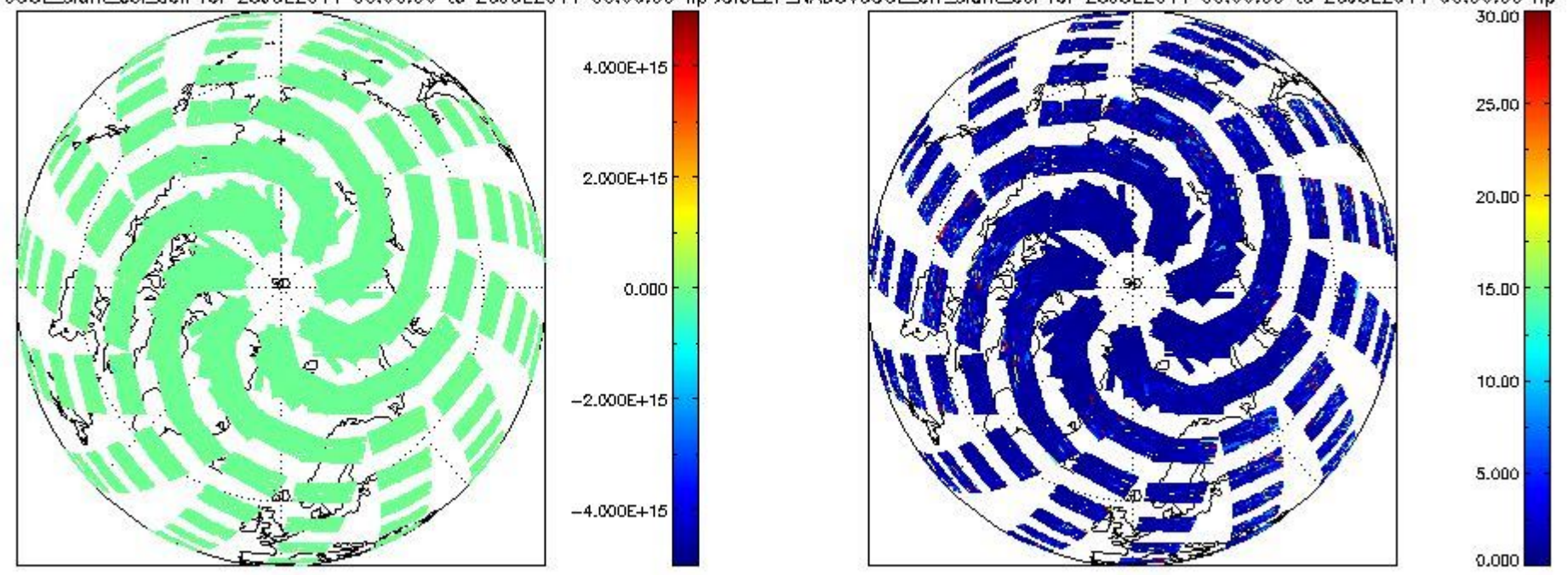


2.2.2.6 OCIO (UV6)



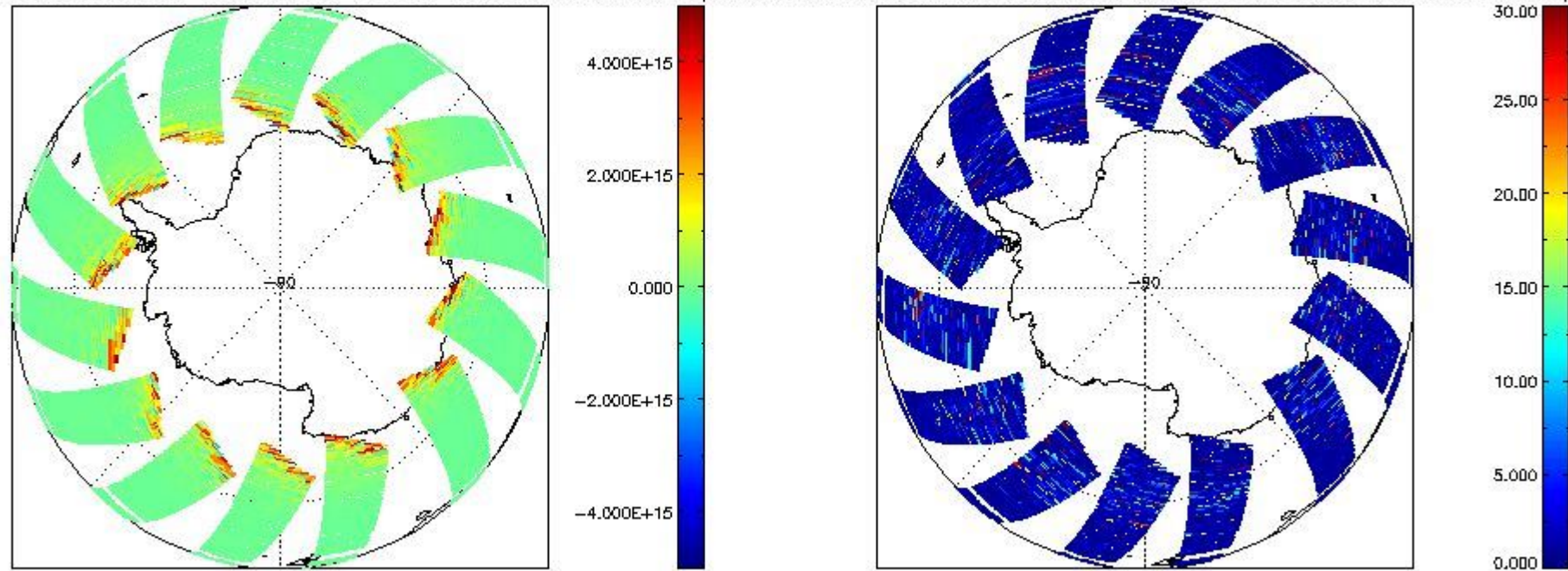


SCIOI2P\_NADUV6OCLslant\_col\_den for 25JUL2011 00:00:00 to 26JUL2011 00:00:00 np SCIOI2P\_NADUV6OCLarr\_slant\_col for 25JUL2011 00:00:00 to 26JUL2011 00:00:00 np

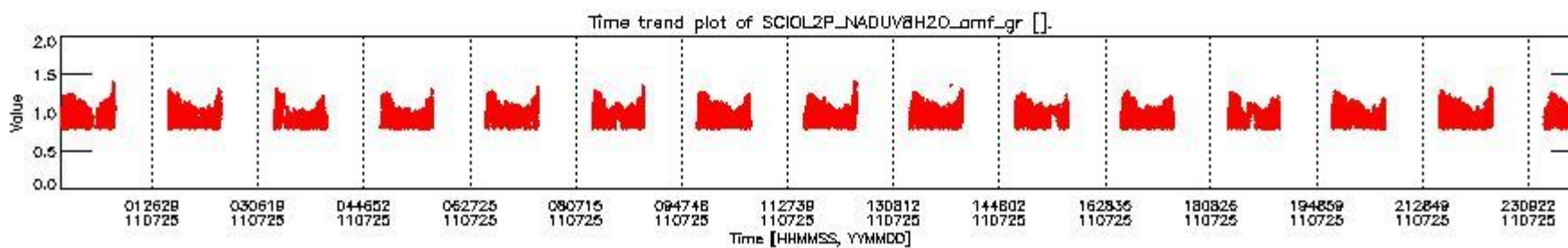
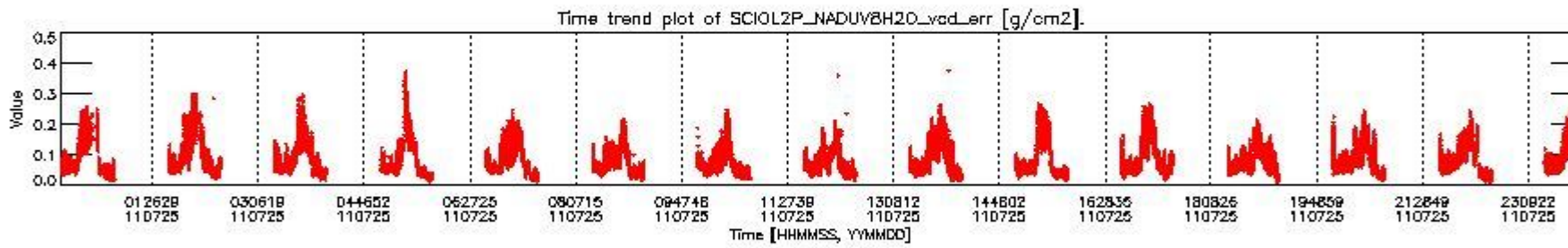
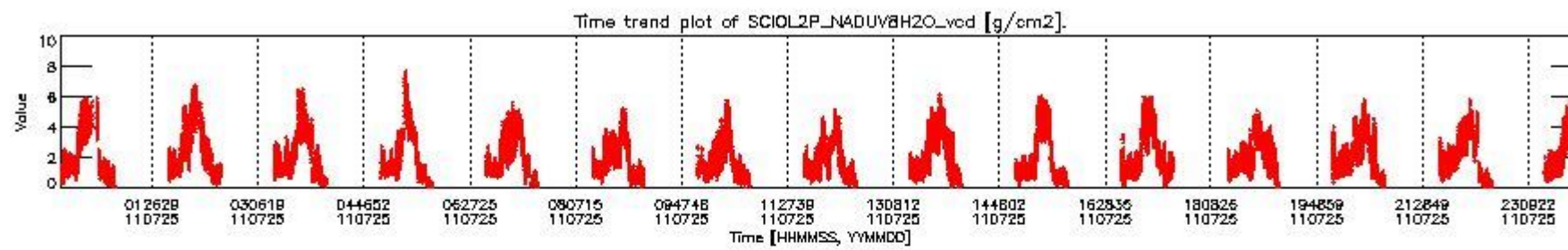




SCIOL2P\_NADUV6OCL\_slant\_col\_den for 25JUL2011 00:00:00 to 26JUL2011 00:00:00 sp SCIOL2P\_NADUV6OCL\_err\_slant\_col for 25JUL2011 00:00:00 to 26JUL2011 00:00:00 sp

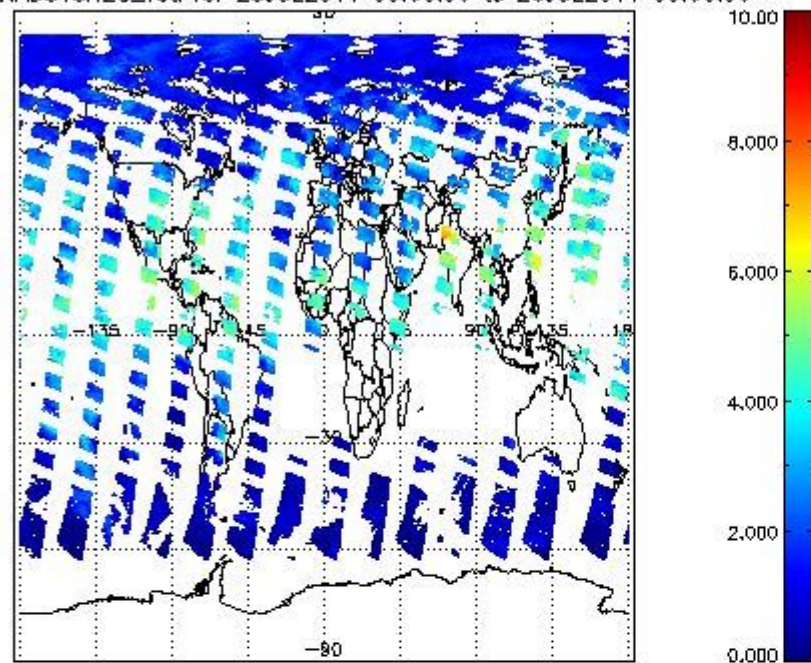


### 2.2.2.7 H2O (UV8)

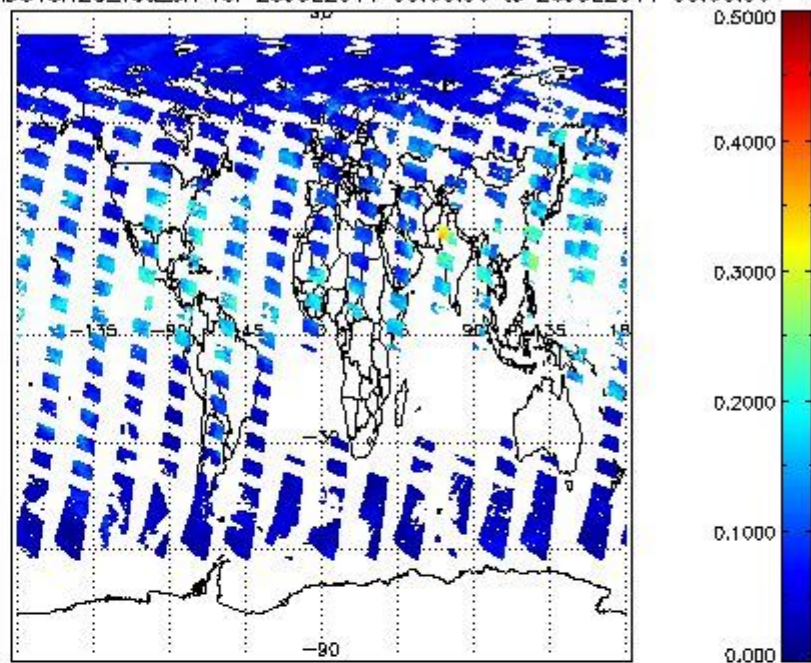




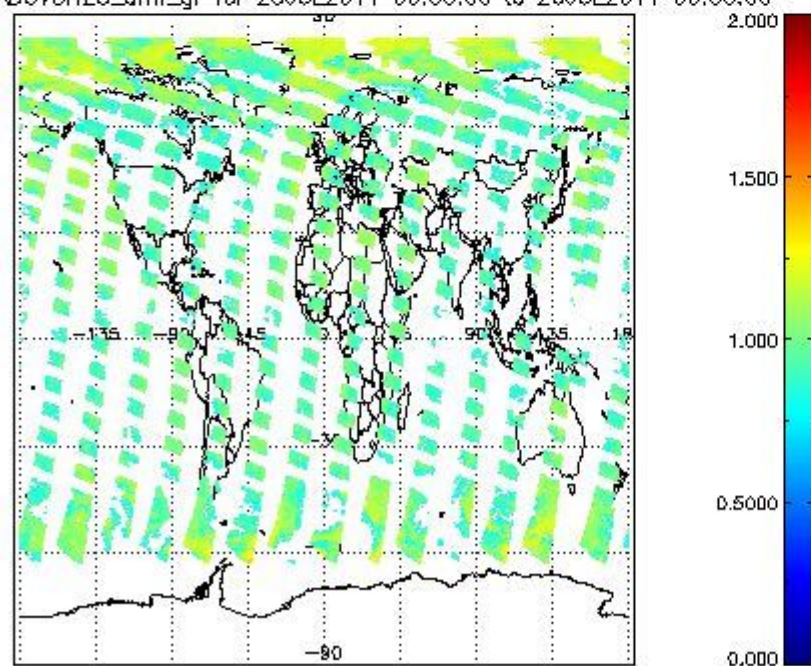
SCIOL2P\_NADUV8H2O\_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



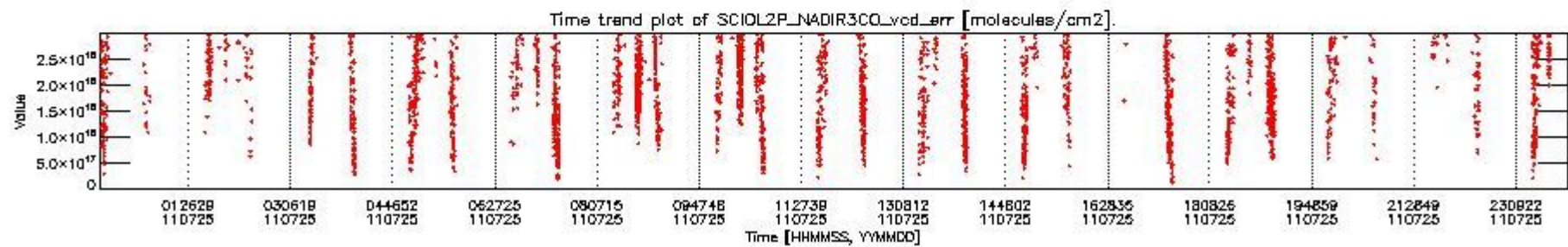
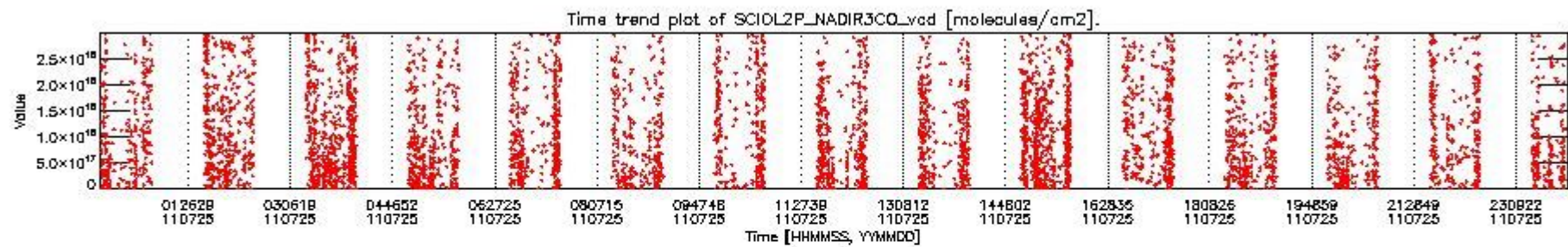
SCIOL2P\_NADUV8H2O\_vcd\_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



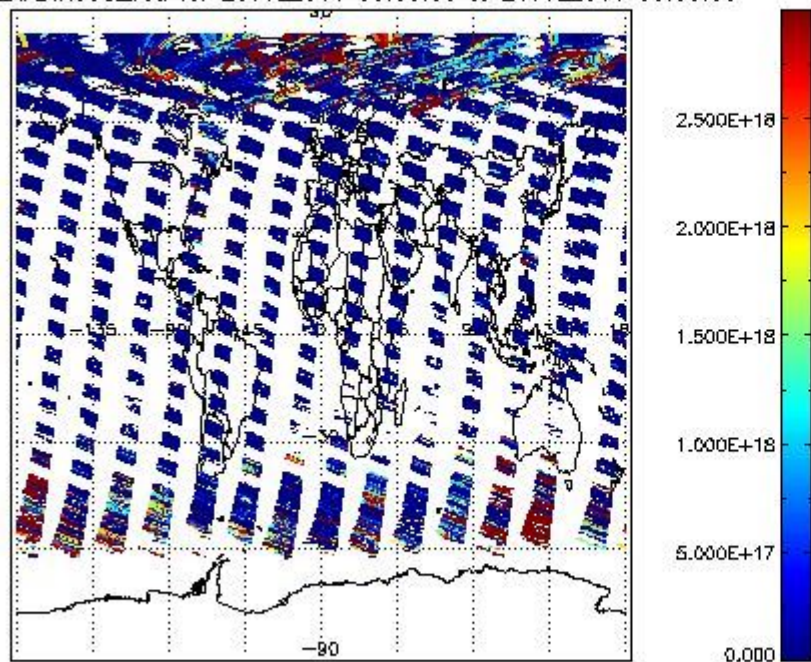
SCIOL2P\_NADUV8H2O\_amf\_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



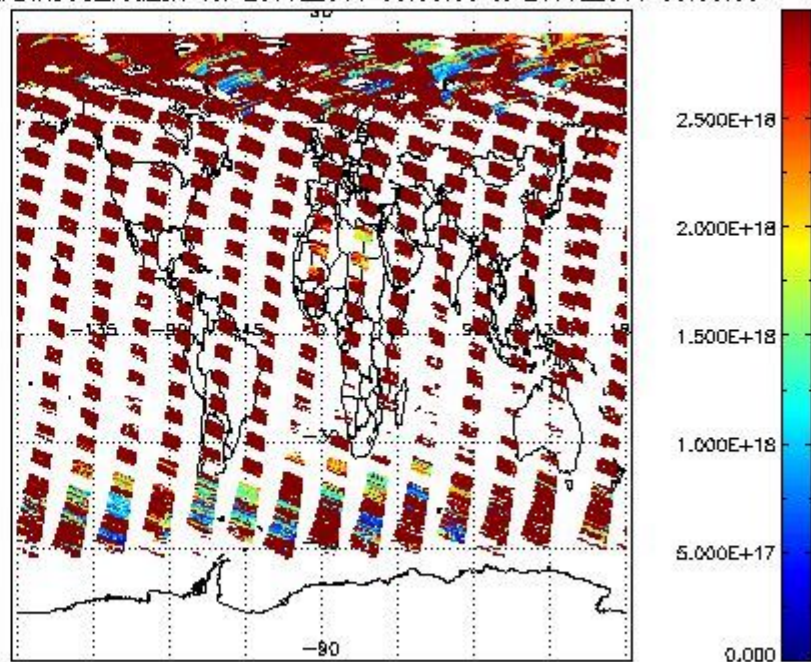




SCIO2P\_NADIR3CO\_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



SCIO2P\_NADIR3CO\_vcd\_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



### 2.2.3 Limb

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

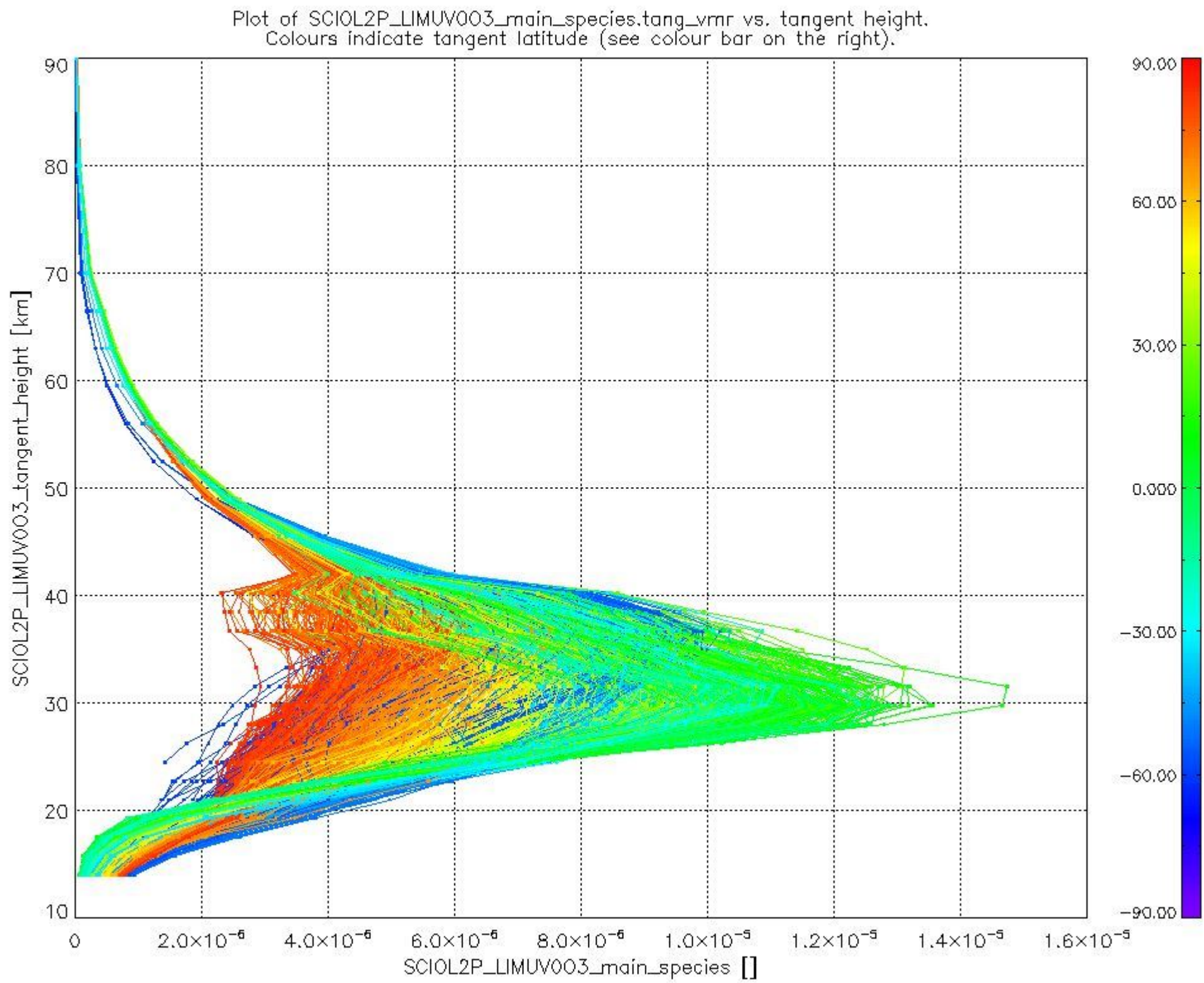
The following data items are currently included into this section:

| Number | Data item ID                  |
|--------|-------------------------------|
| 0      | SCIO2P_LIMUV003_main_species  |
| 1      | SCIO2P_LIMUV1NO2_main_species |
| 2      | SCIO2P_LIMUV3BRO_main_species |



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

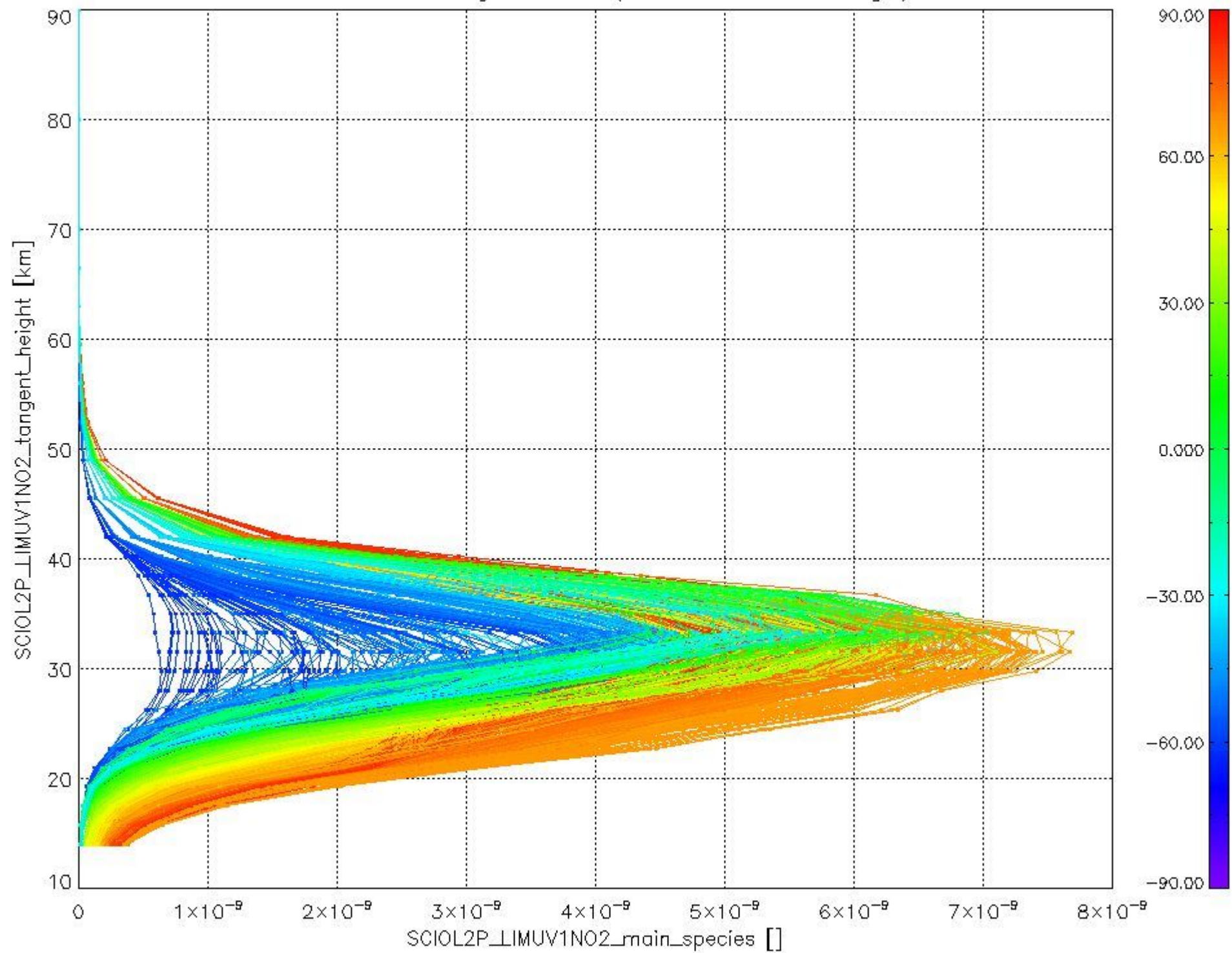
2.2.3.1 O3 (UV0)



2.2.3.2 NO2 (UV1)



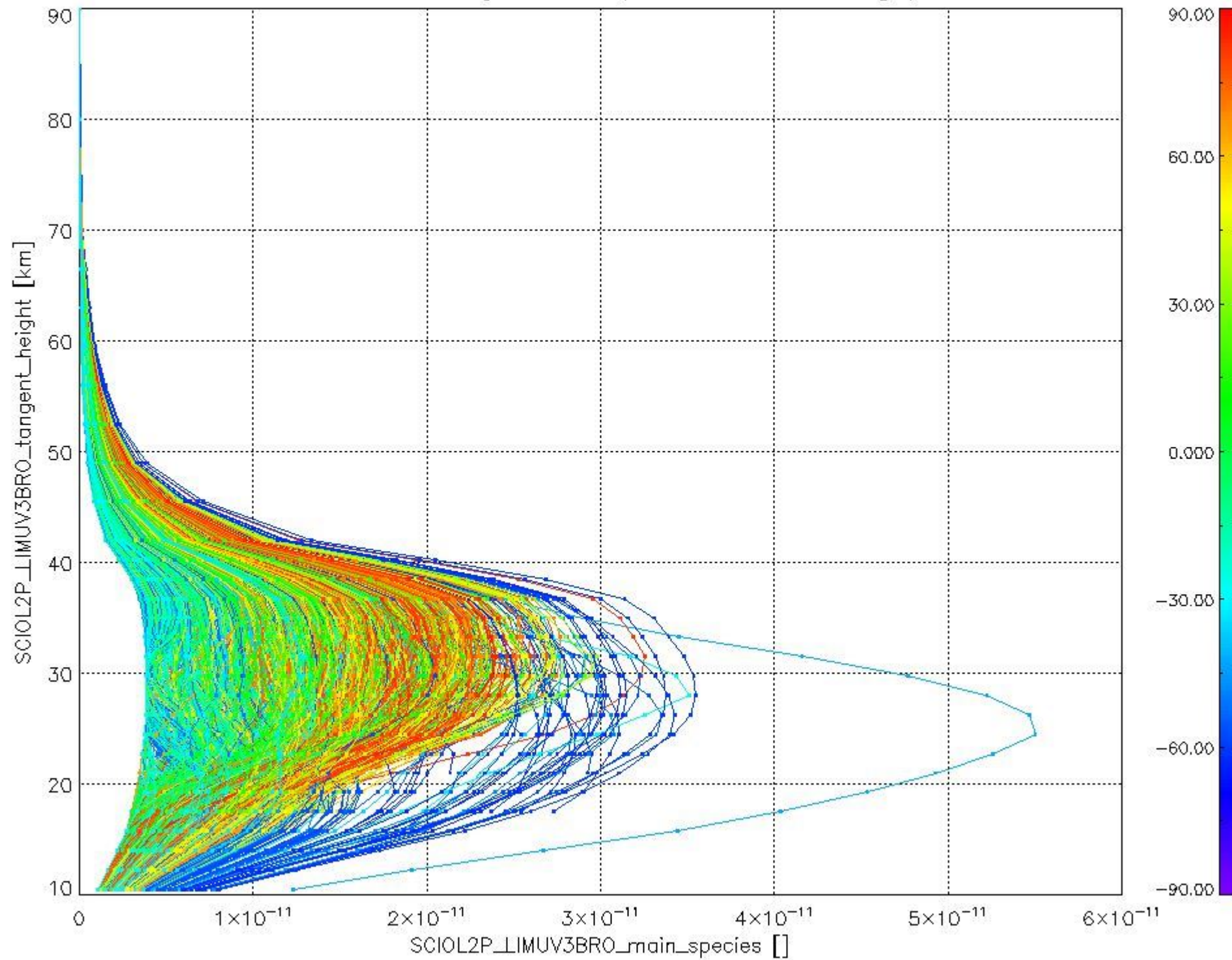
Plot of SCIOL2P\_LIMUV1NO2\_main\_species.tang\_vmr vs. tangent height.  
 Colours indicate tangent latitude (see colour bar on the right).



2.2.3.3 BrO (UV3)



Plot of SCIOL2P\_LIMUV3BRO\_main\_species.tang\_vmr vs. tangent height.  
Colours indicate tangent latitude (see colour bar on the right).



### 2.3 ADF monitoring

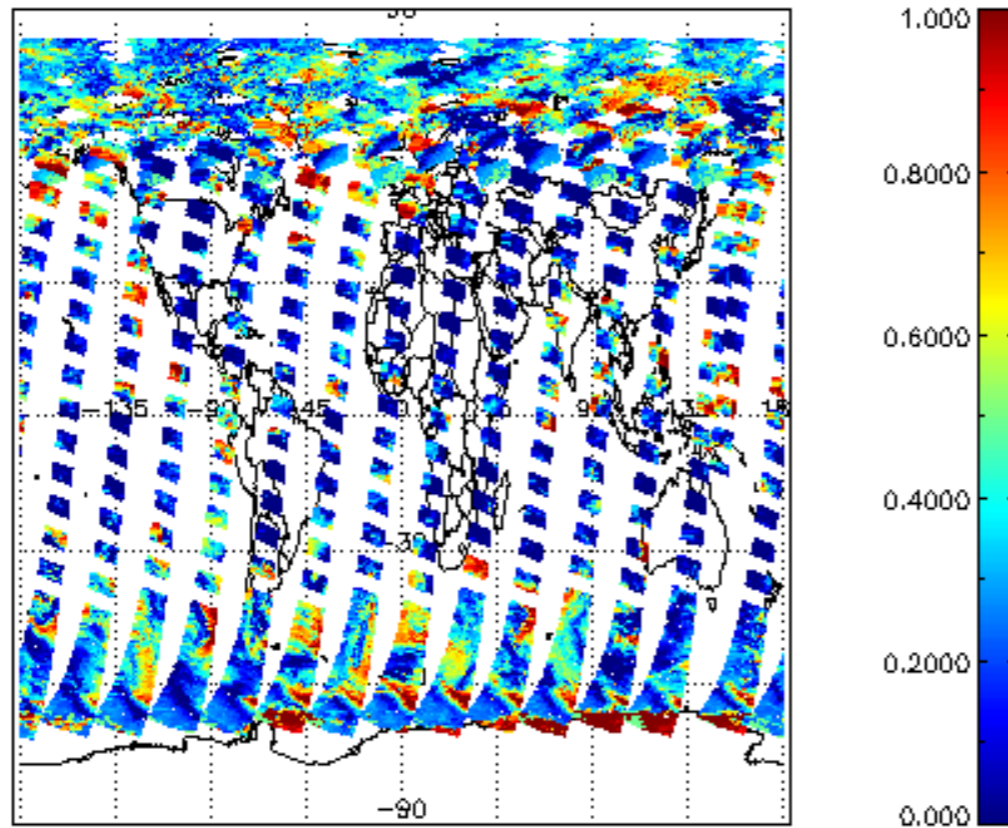
| Number | ADF   |
|--------|---|
|        | <b>IN_ (INITIALISATION_FILE)</b>                              |
| 0      | SCI_IN_AXNPDE20090615_120000_20090615_000000_20991231_235959  |
|        | <b>ECF (ECMWF_FILE)</b>                                       |
| 1      | NOT USED  |
|        | <b>MF1 (M_FACTOR_FILE)</b>                                    |
| 2      | SCI_MF1_AXVIEC20110726_110549_20110724_182738_20110726_182738 |
| 3      | SCI_MF1_AXVIEC20110726_110653_20110725_193106_20110727_193106 |



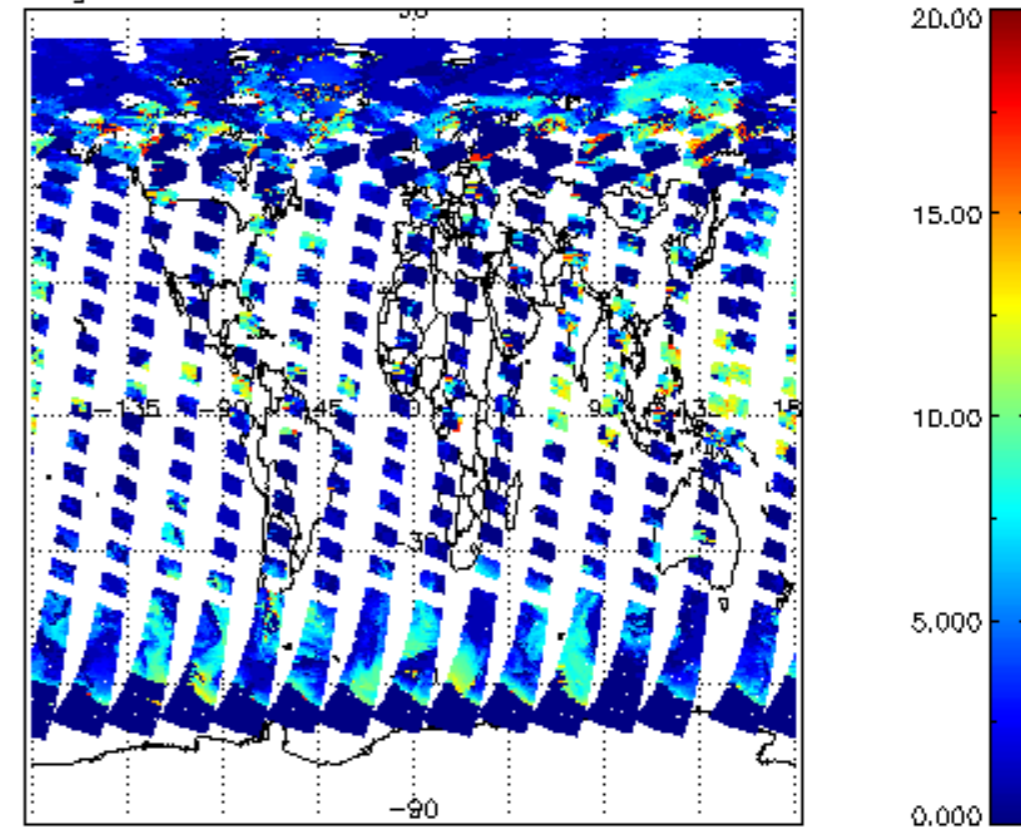




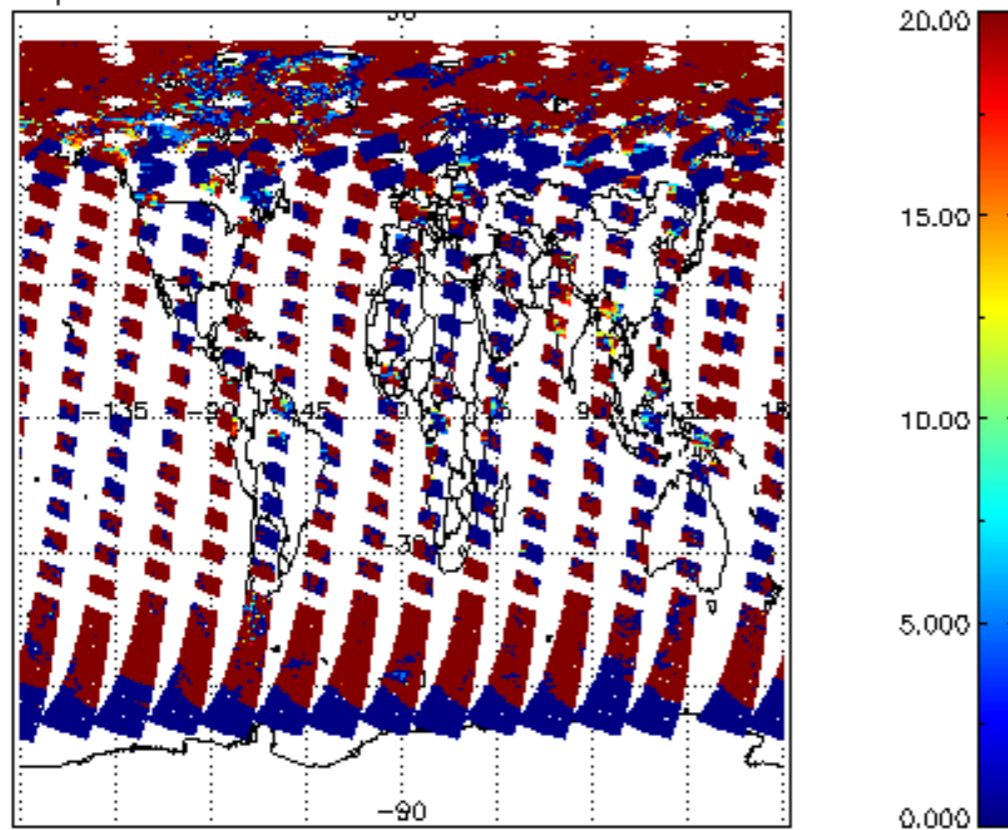
cl\_frac for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



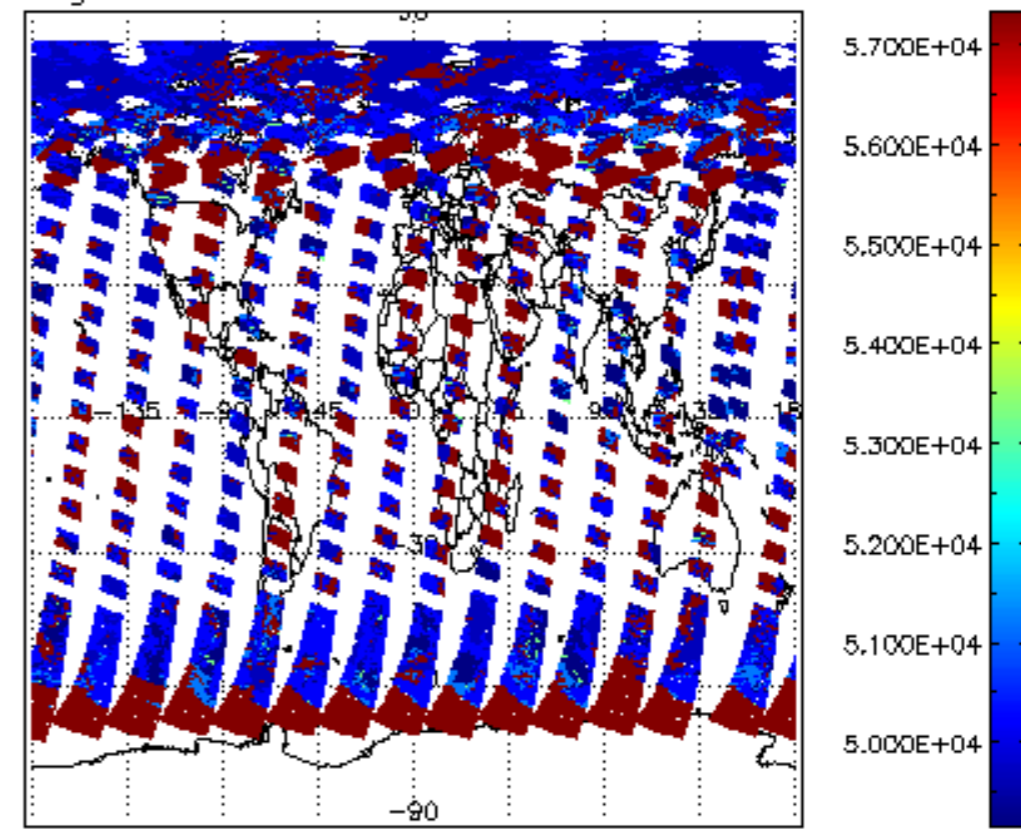
cl\_top\_height for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



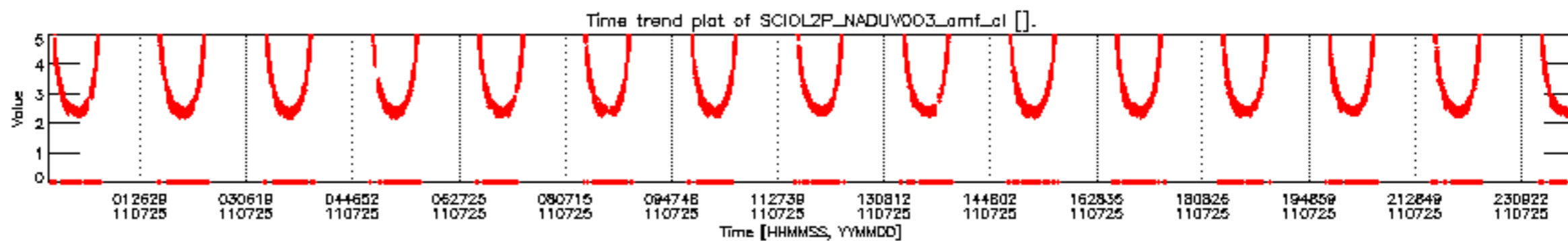
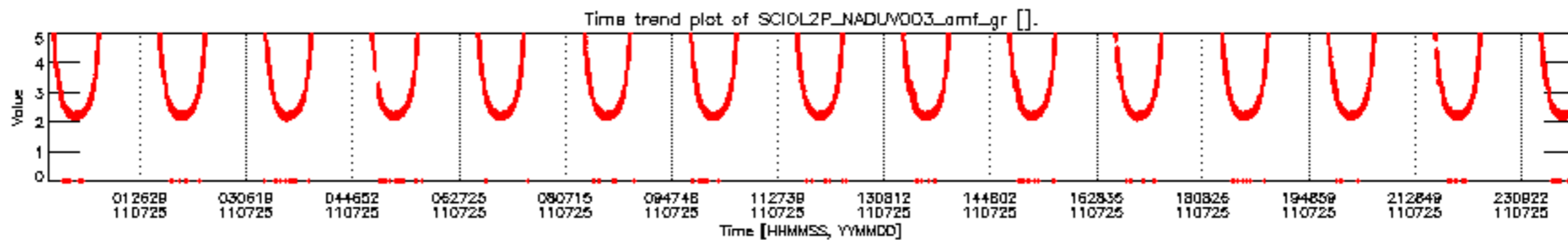
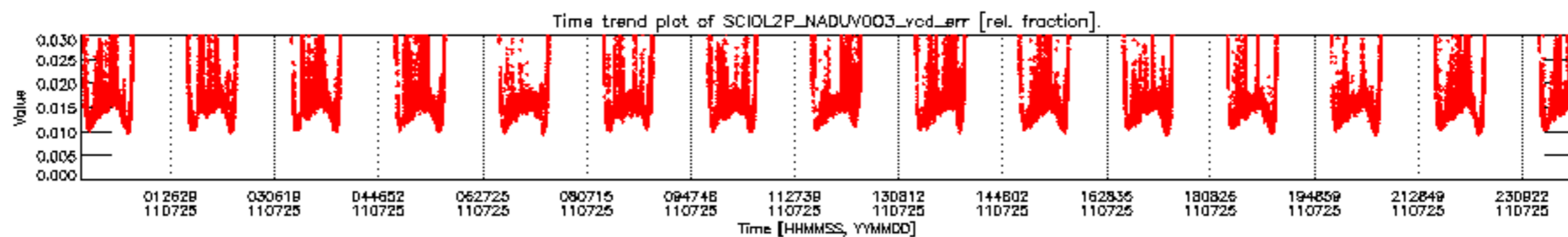
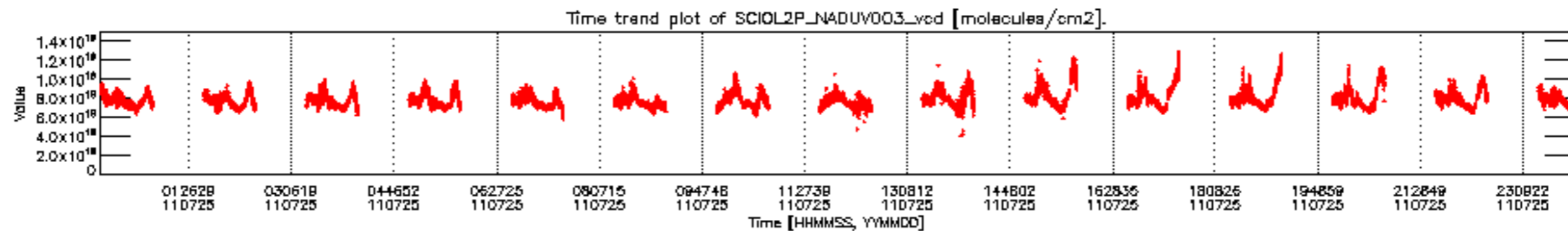
cl\_opt\_depth for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



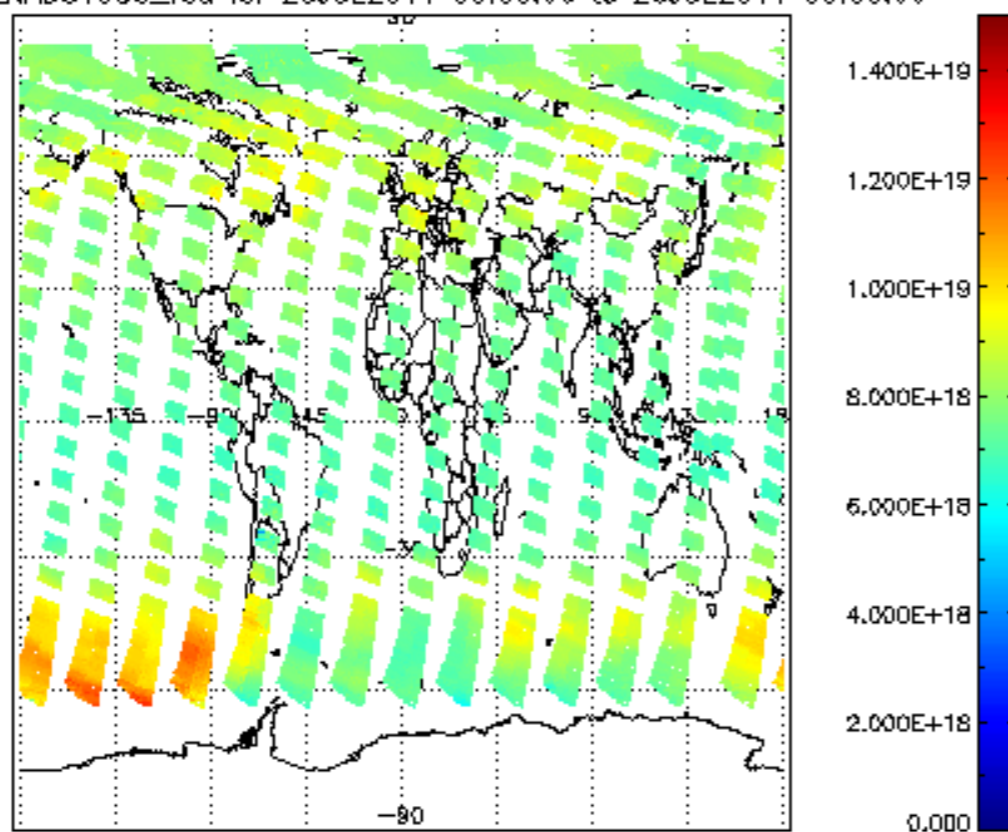
cloud\_flags for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



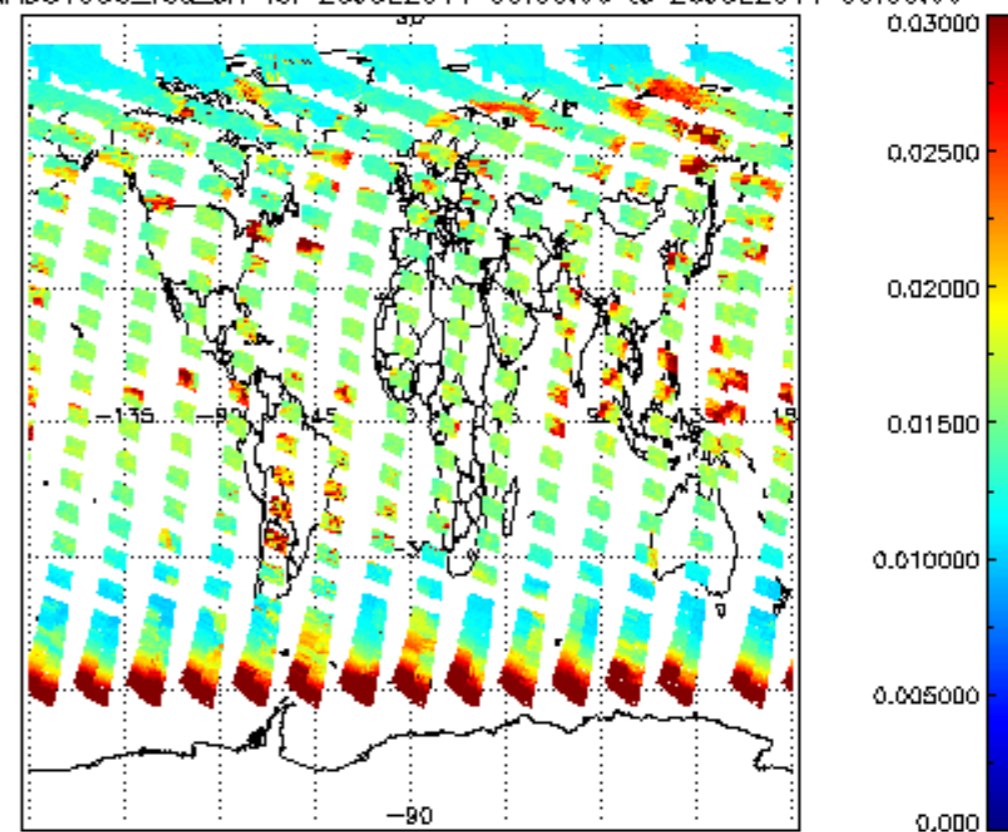




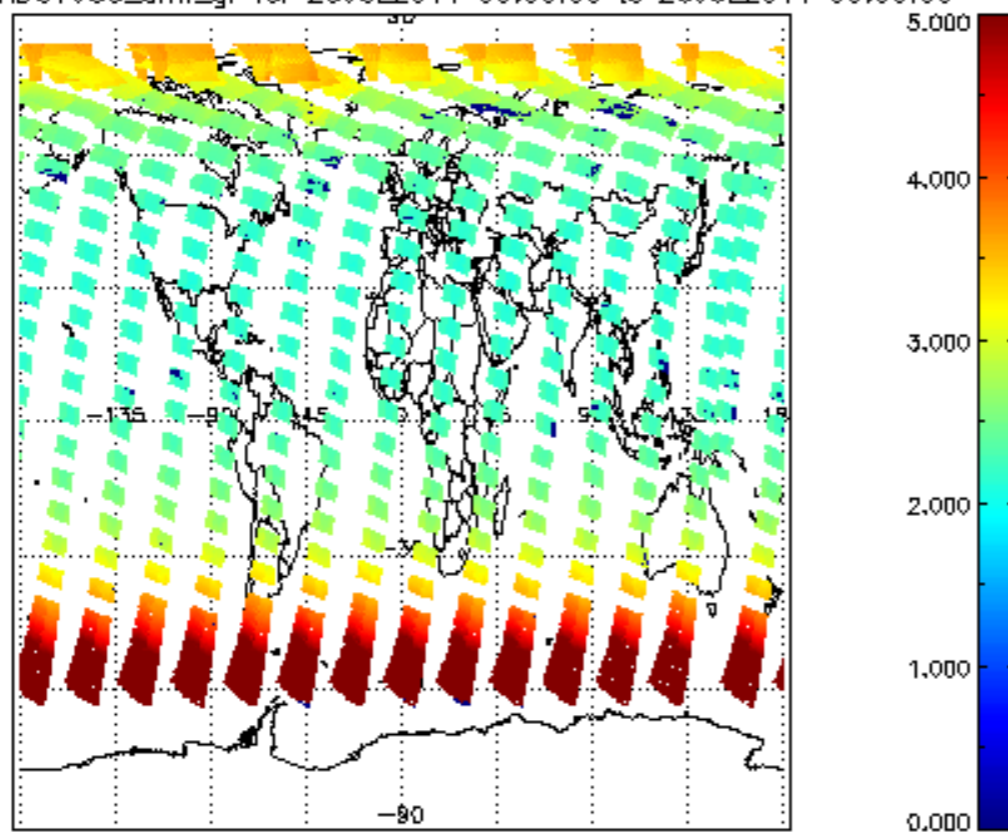
SCIOL2P\_NADUV003\_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



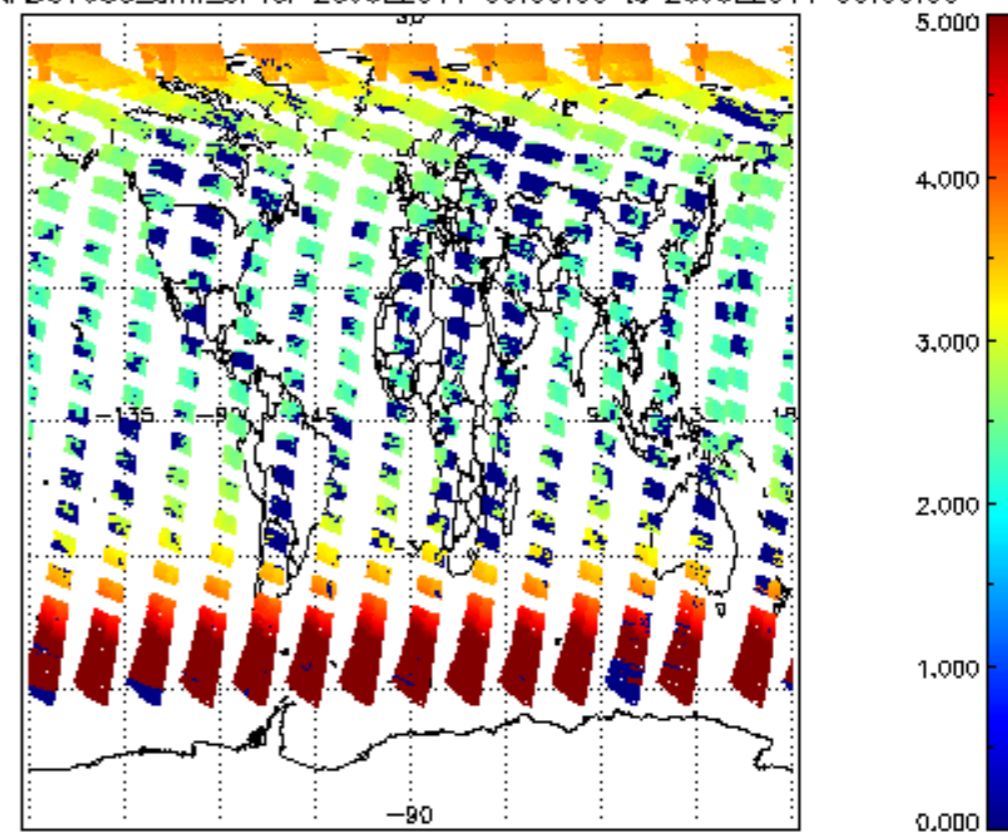
SCIOL2P\_NADUV003\_vcd\_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



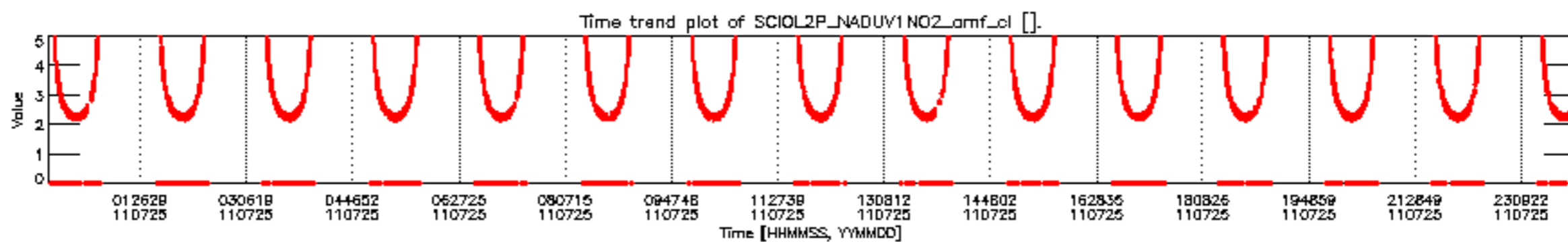
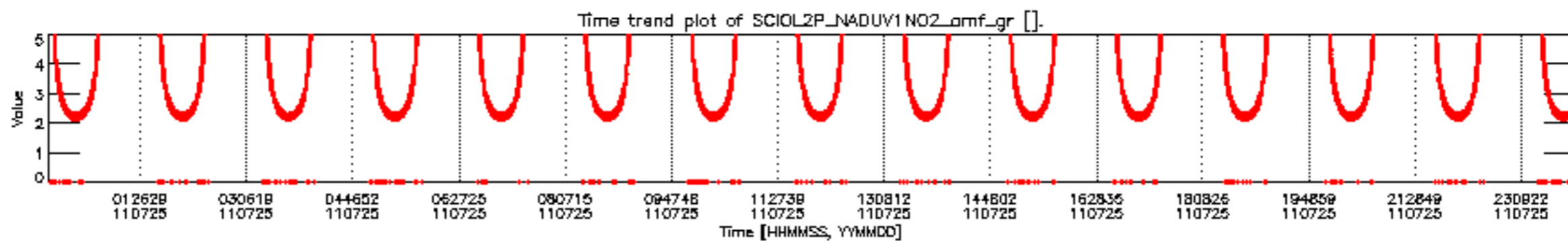
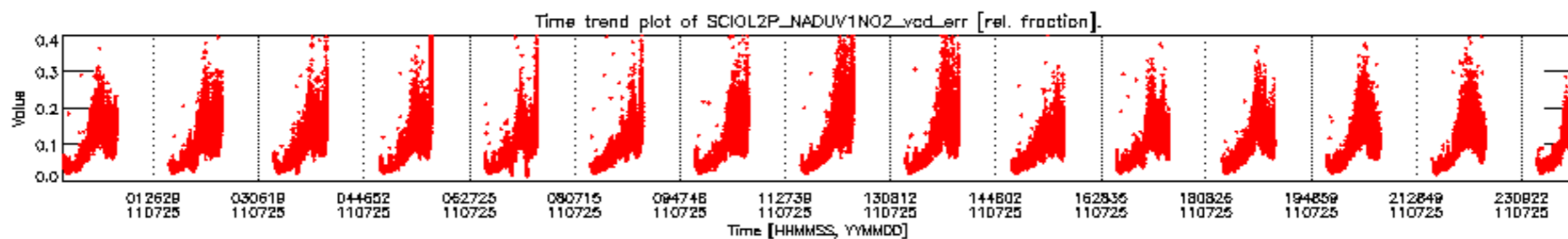
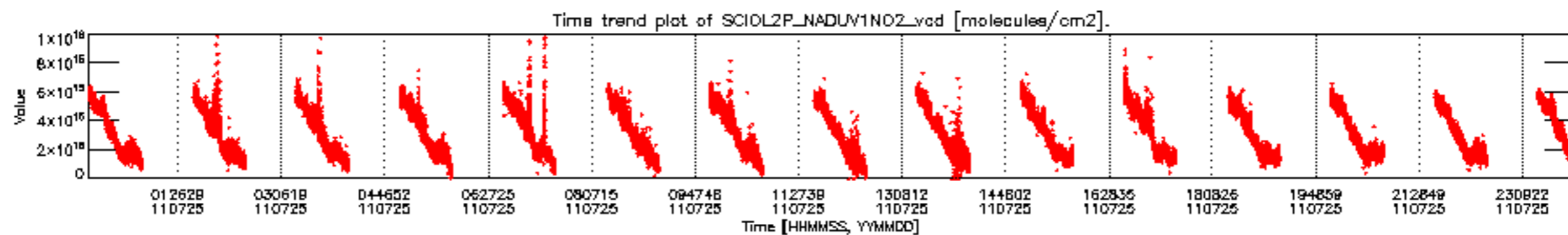
SCIOL2P\_NADUV003\_amf\_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



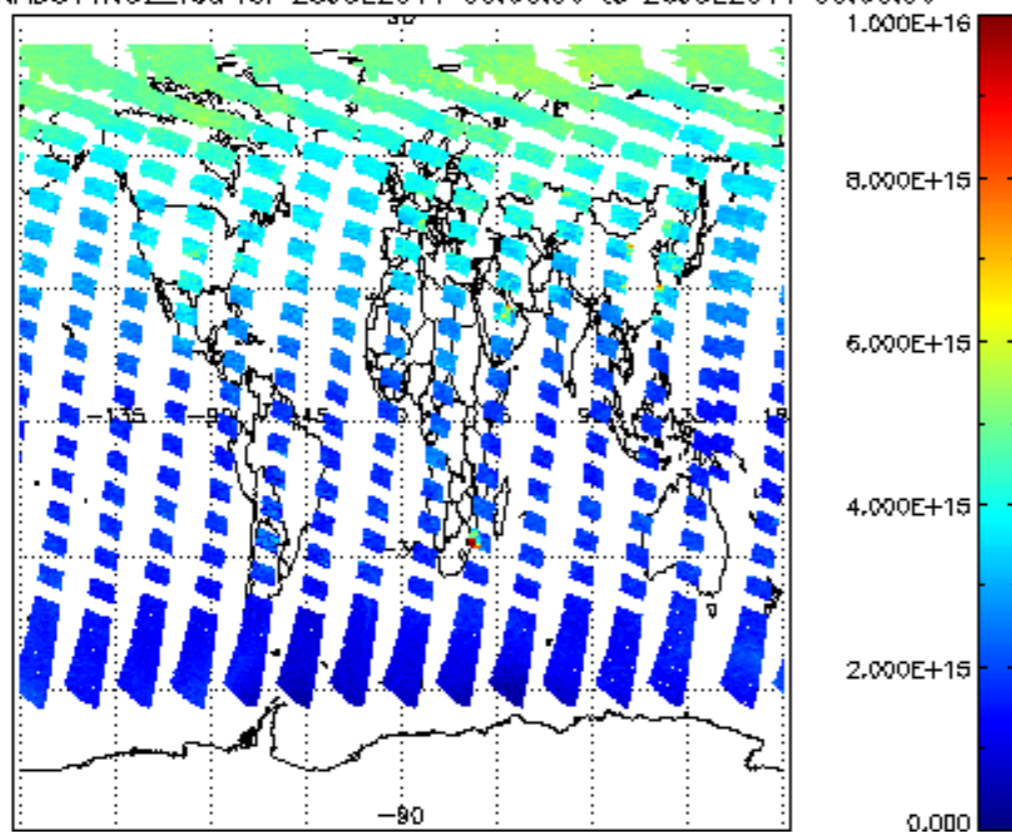
SCIOL2P\_NADUV003\_amf\_cl for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



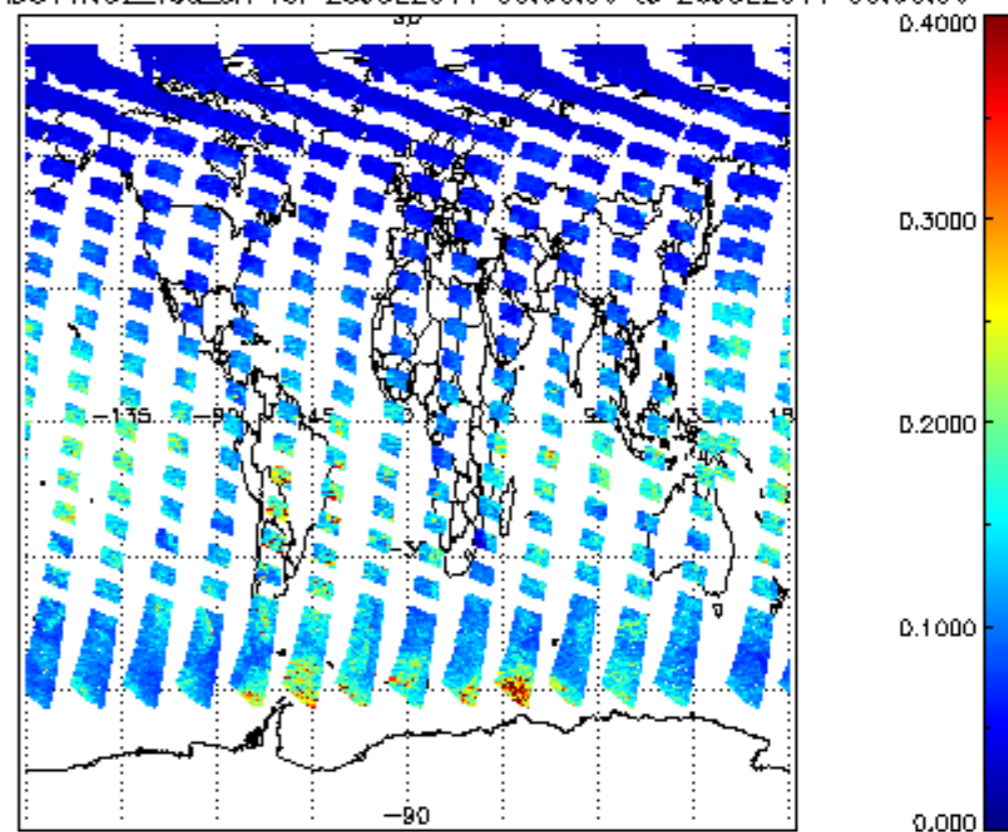




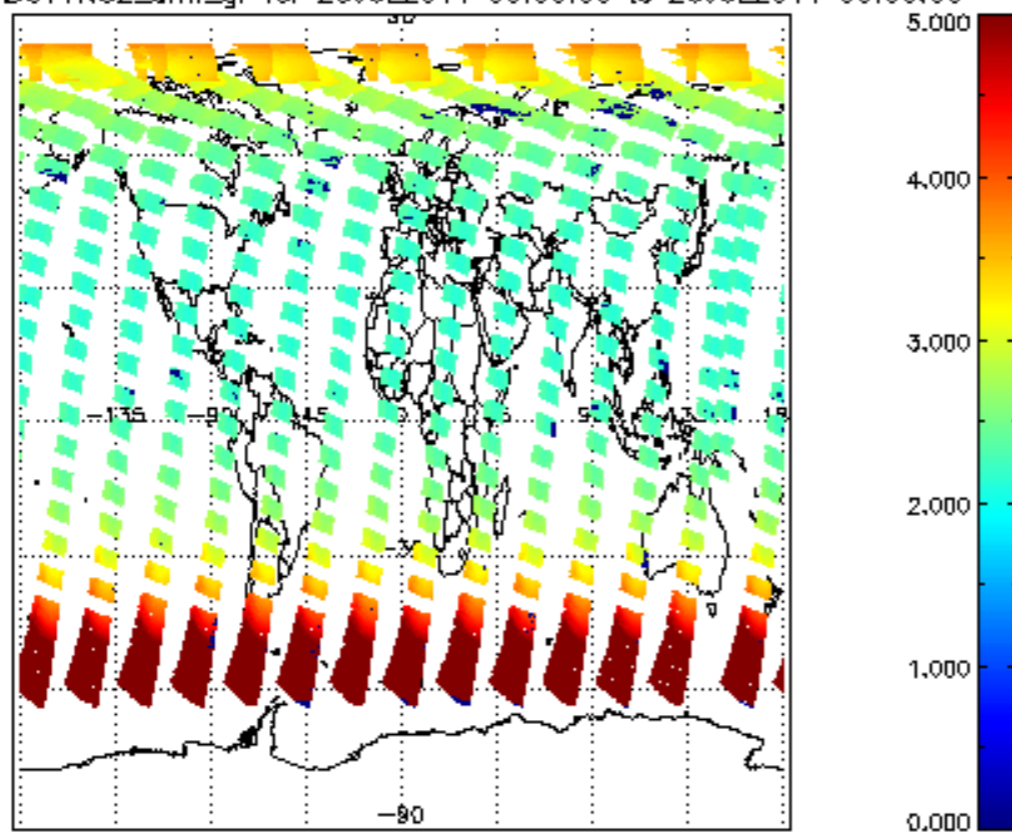
SCIOL2P\_NADUV1NO2\_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



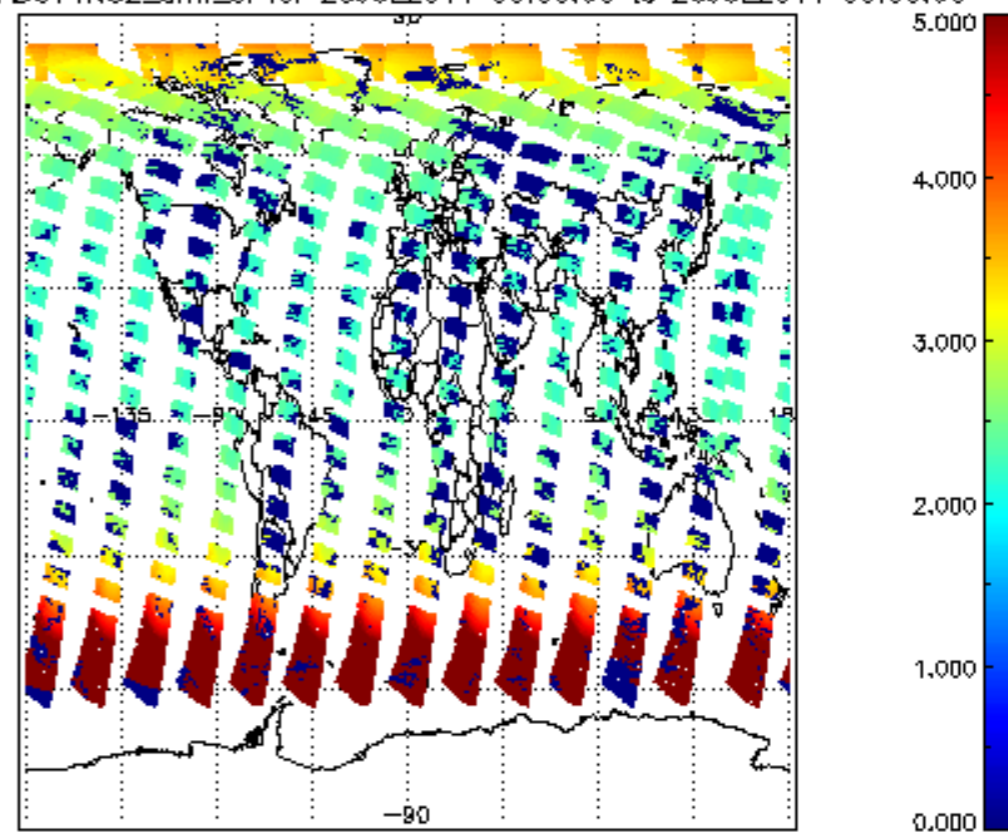
SCIOL2P\_NADUV1NO2\_vcd\_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



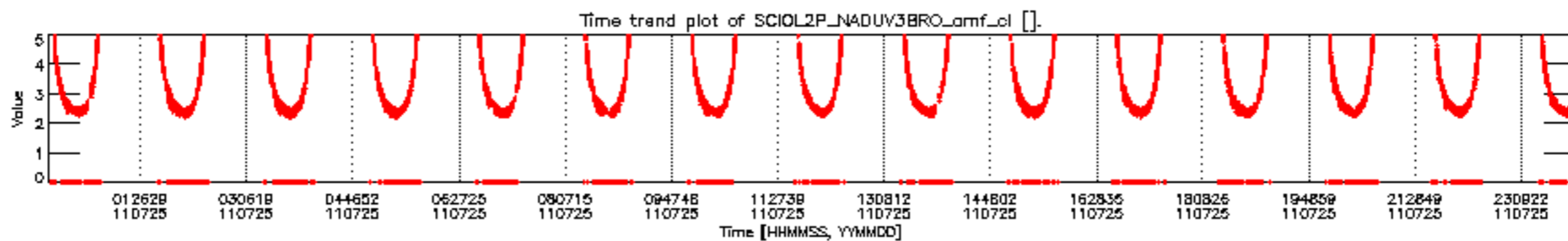
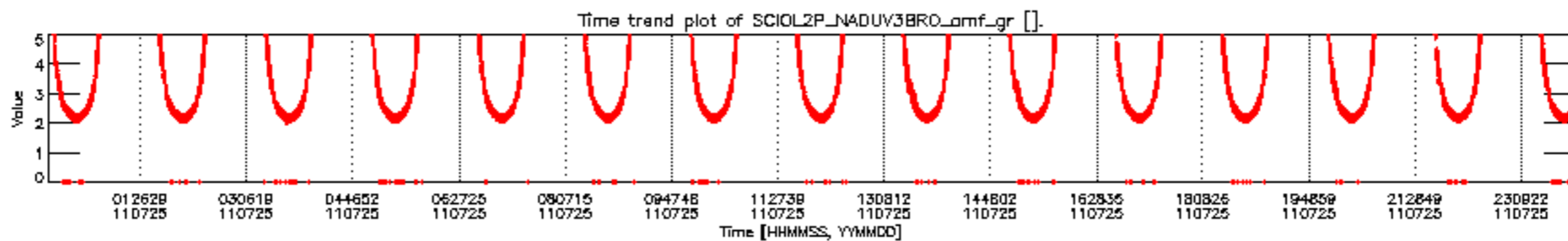
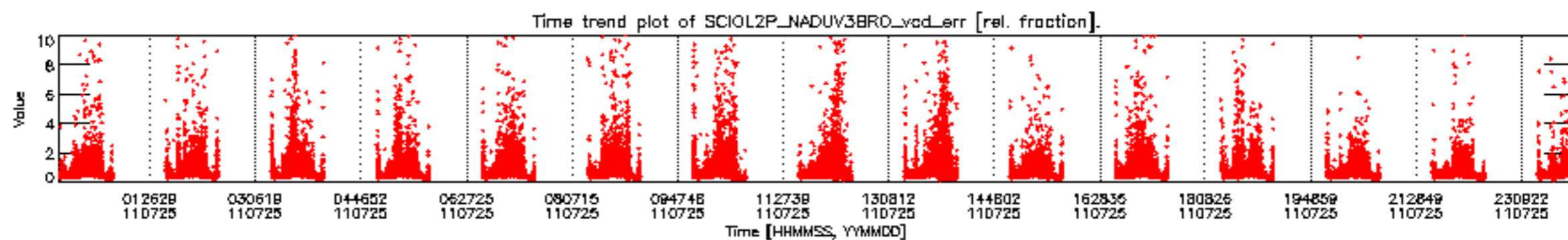
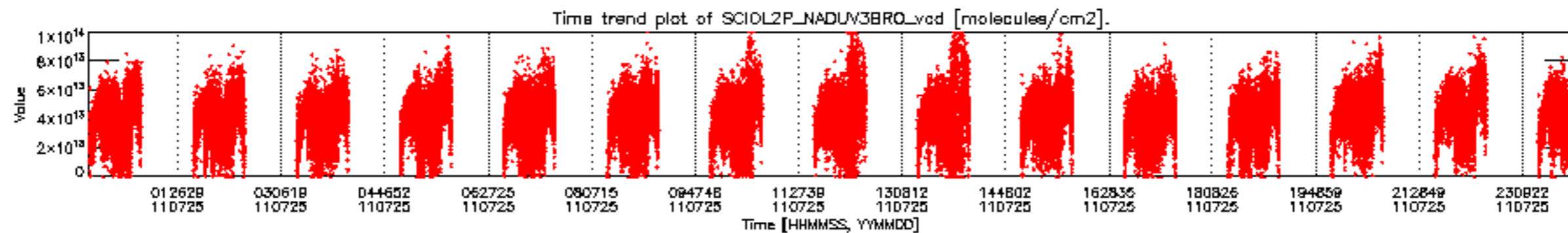
SCIOL2P\_NADUV1NO2\_amf\_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



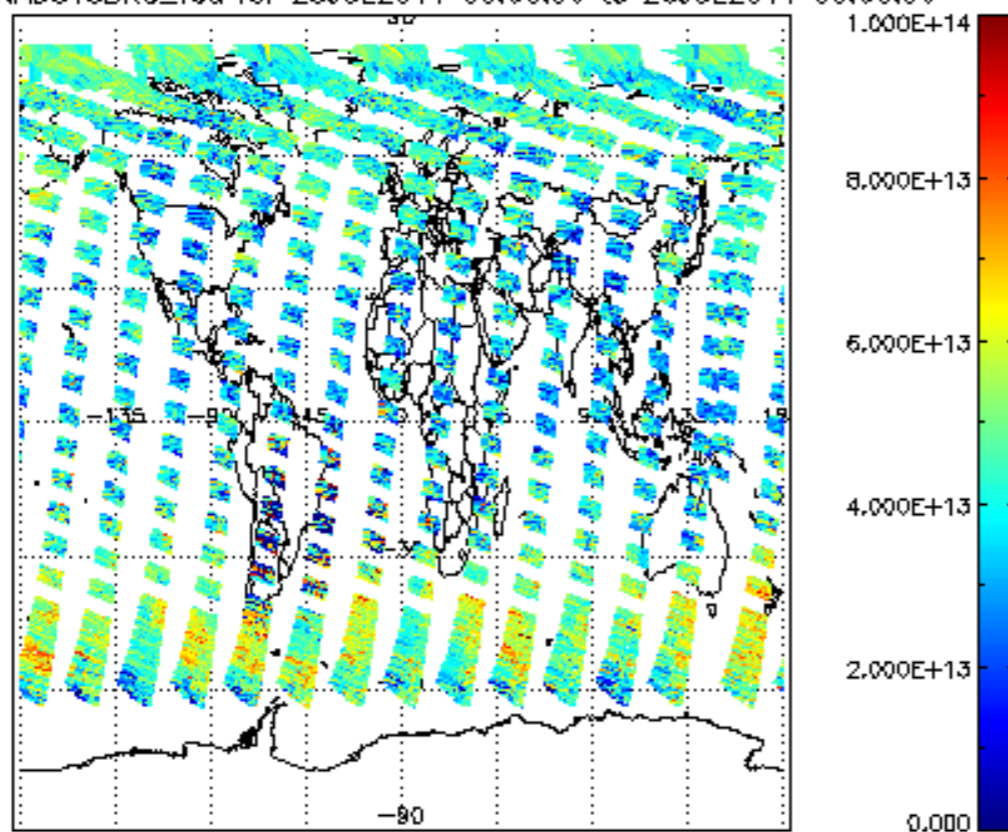
SCIOL2P\_NADUV1NO2\_amf\_cl for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



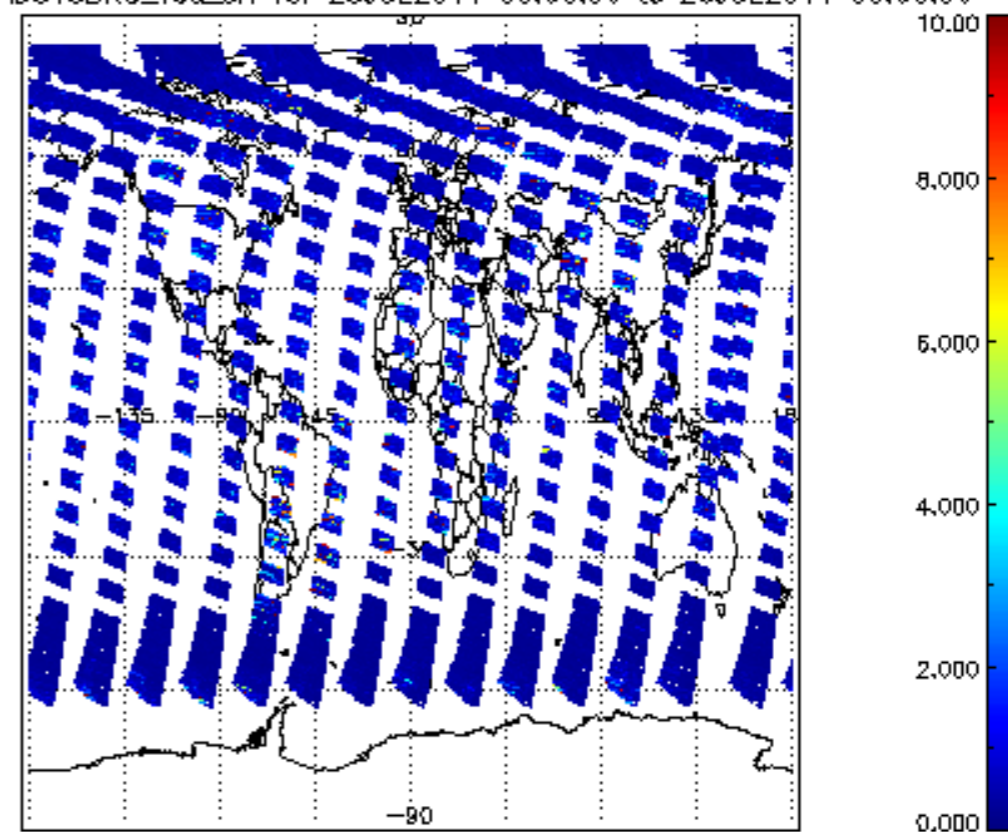




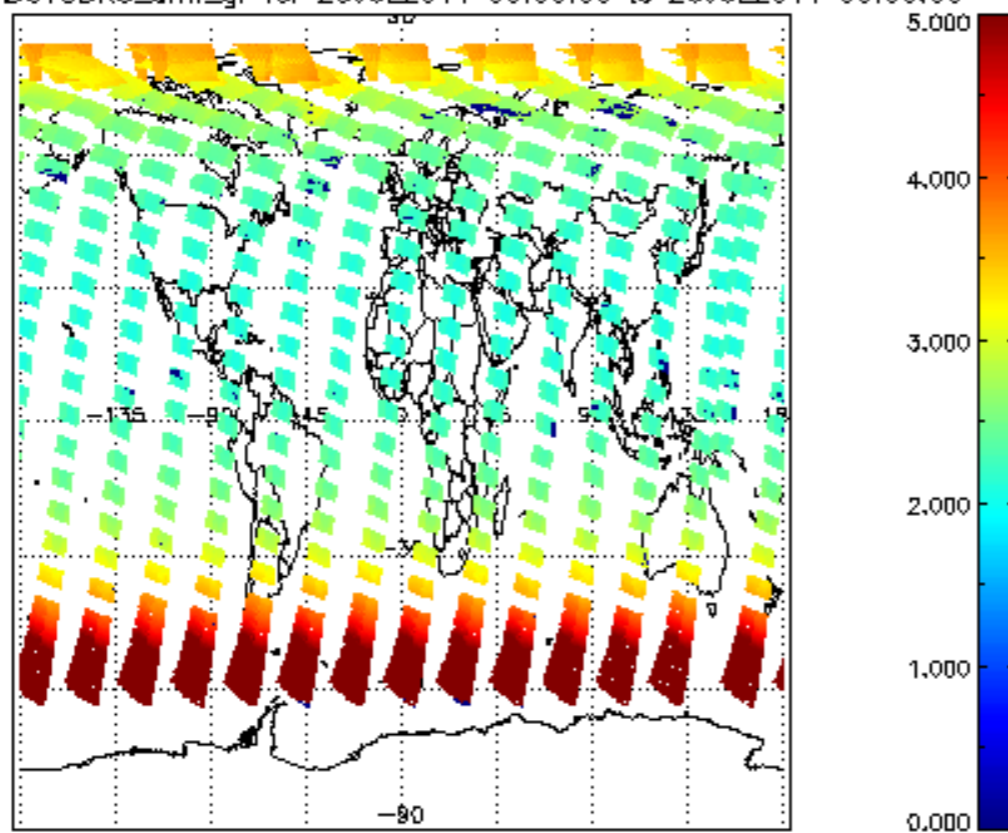
SCIOL2P\_NADUV3BRO\_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



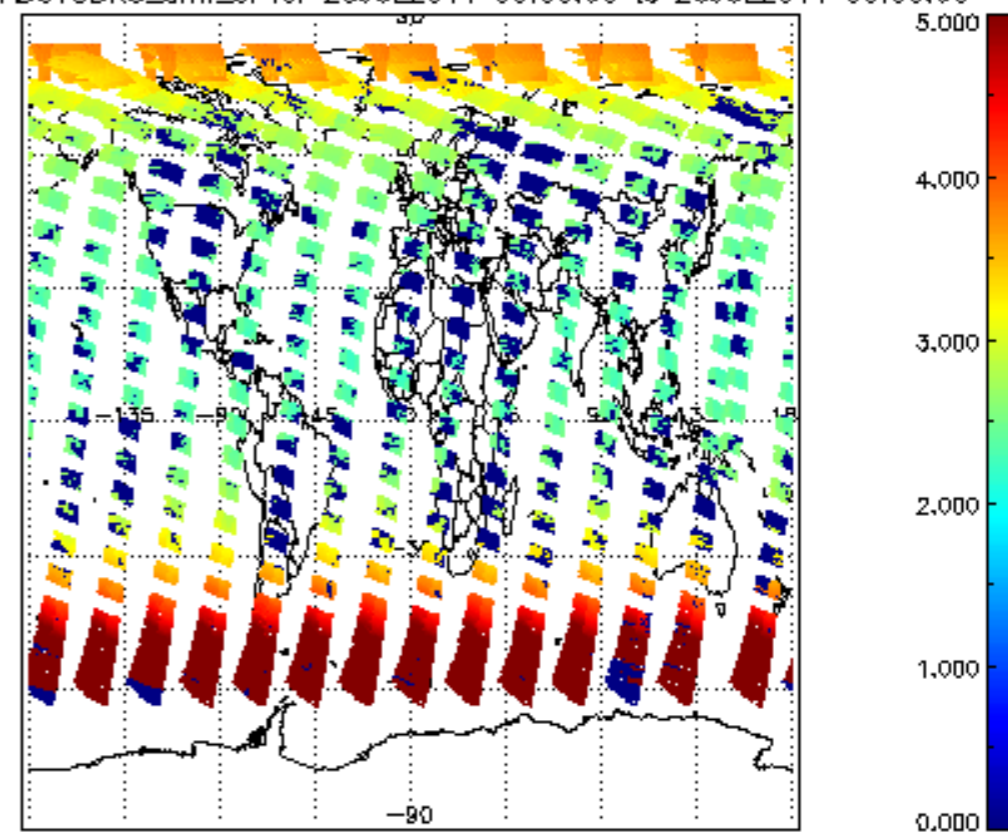
SCIOL2P\_NADUV3BRO\_vcd\_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



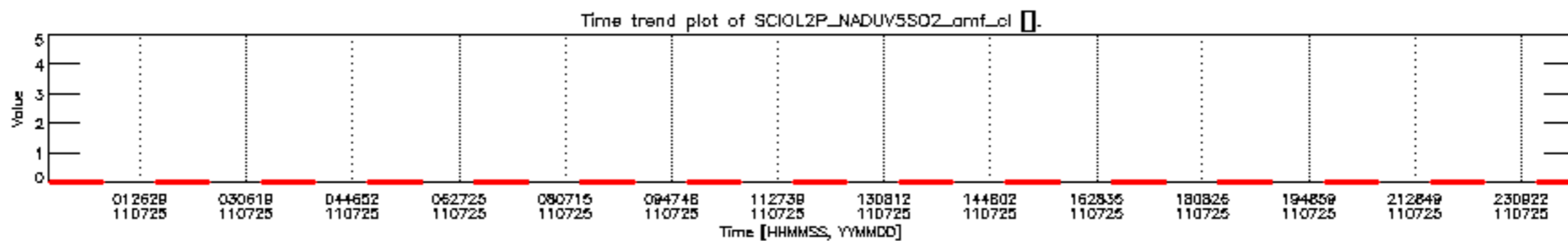
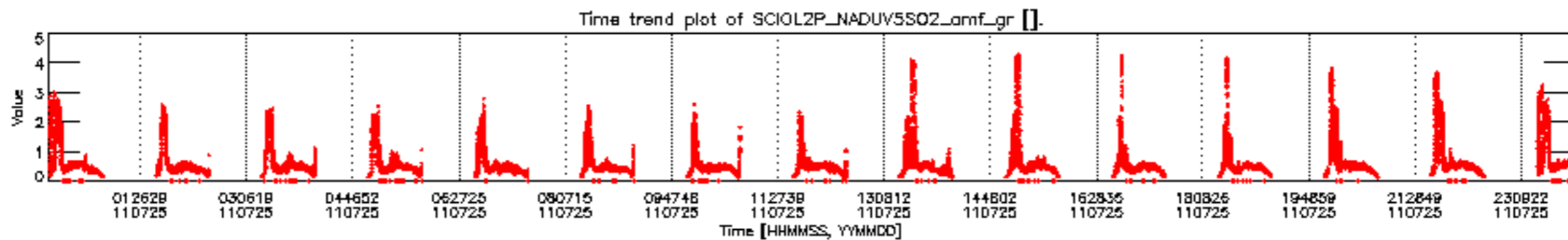
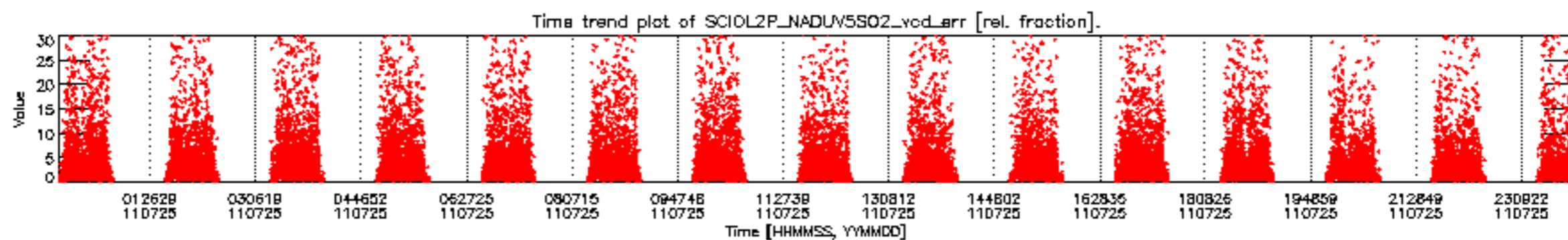
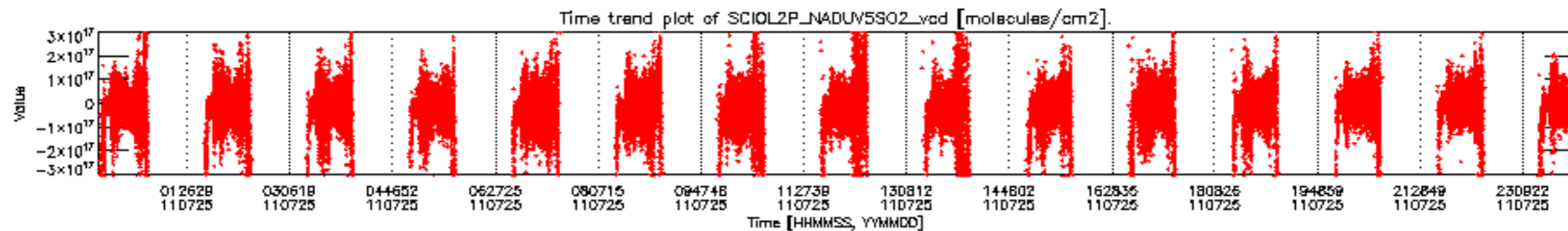
SCIOL2P\_NADUV3BRO\_amf\_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



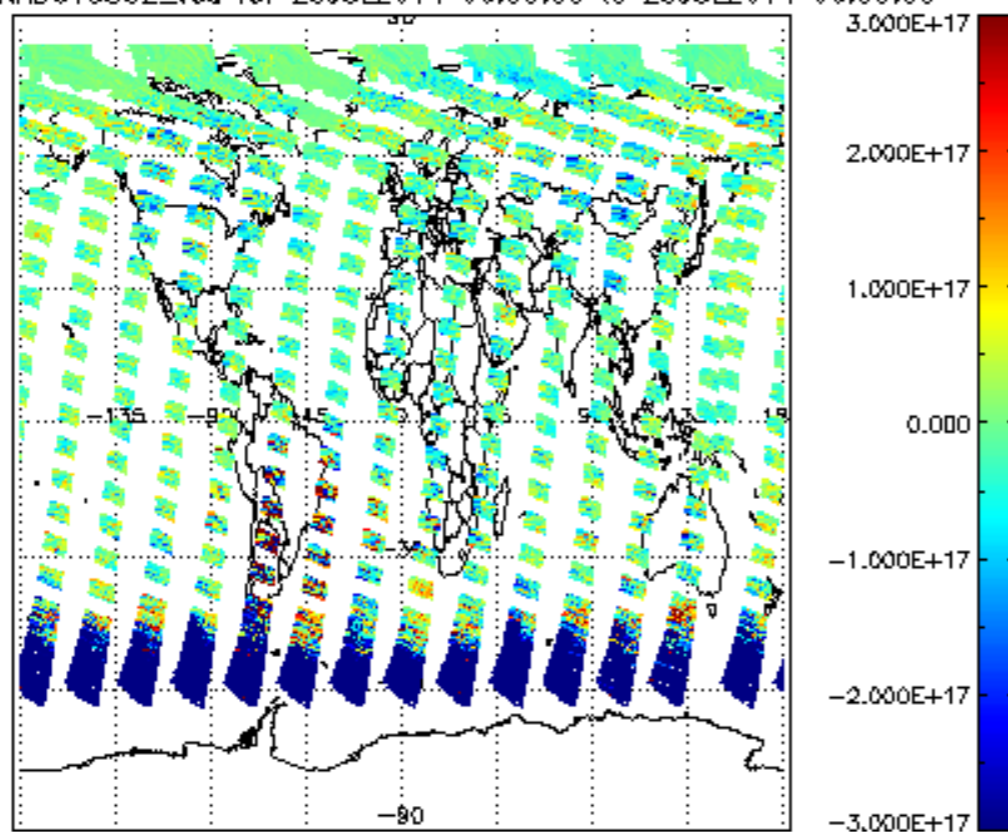
SCIOL2P\_NADUV3BRO\_amf\_cl for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



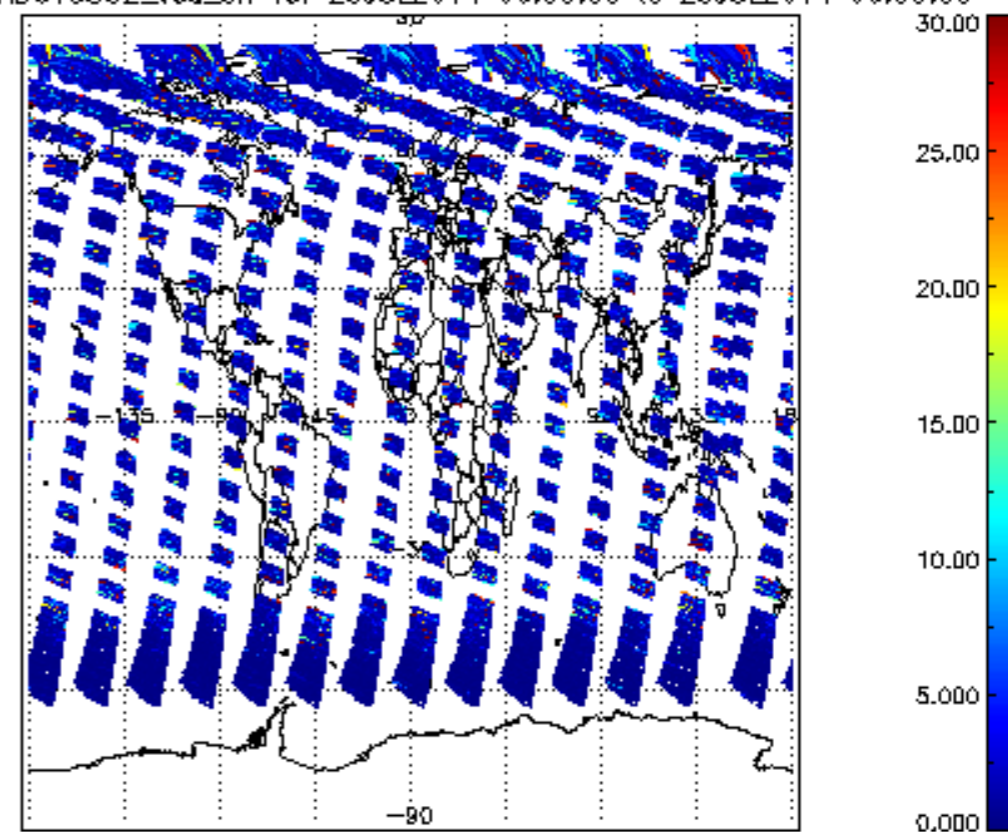




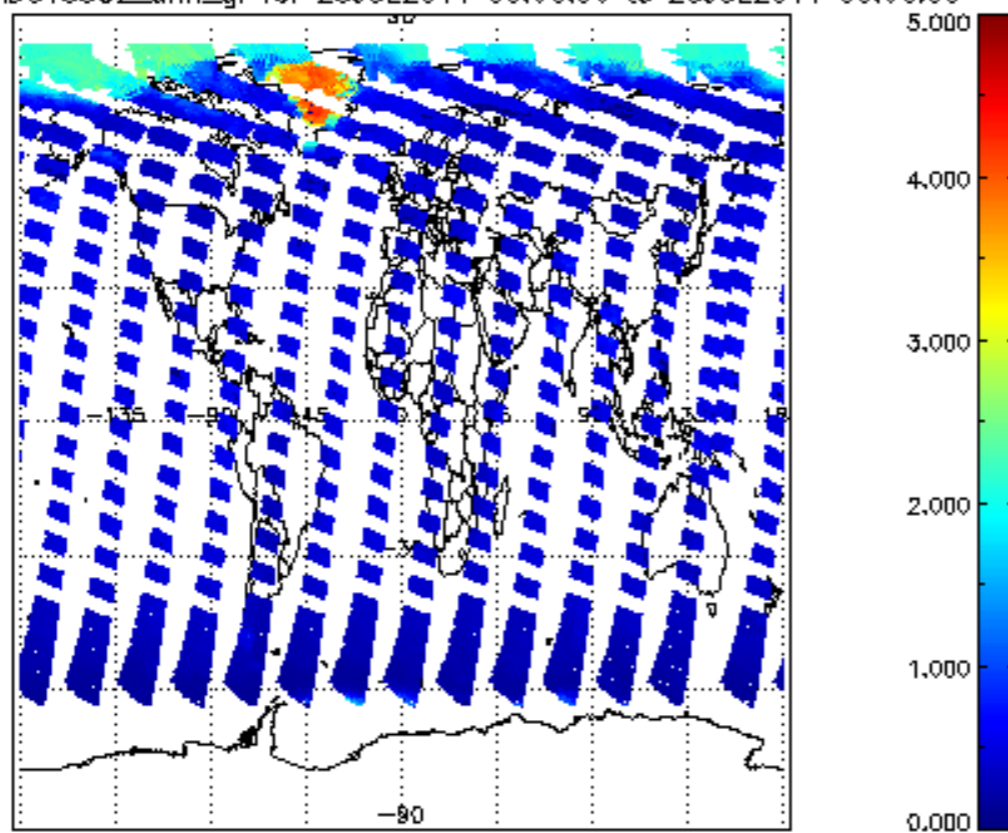
SCIOL2P\_NADUV5S02\_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



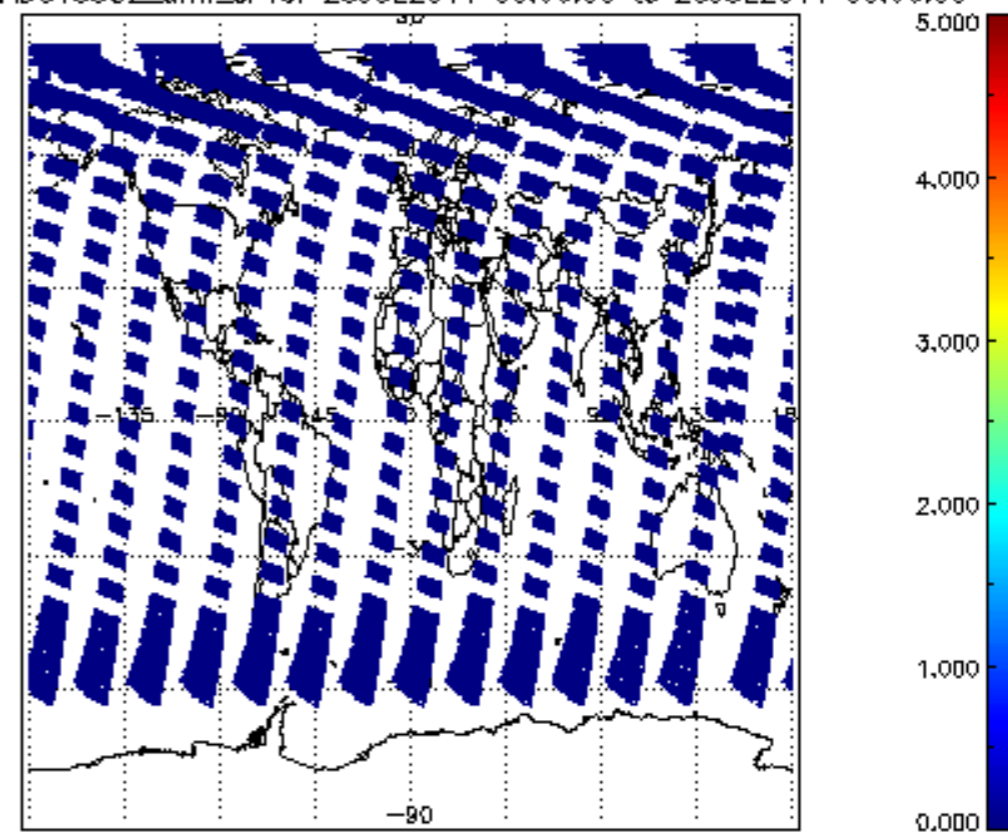
SCIOL2P\_NADUV5S02\_vcd\_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



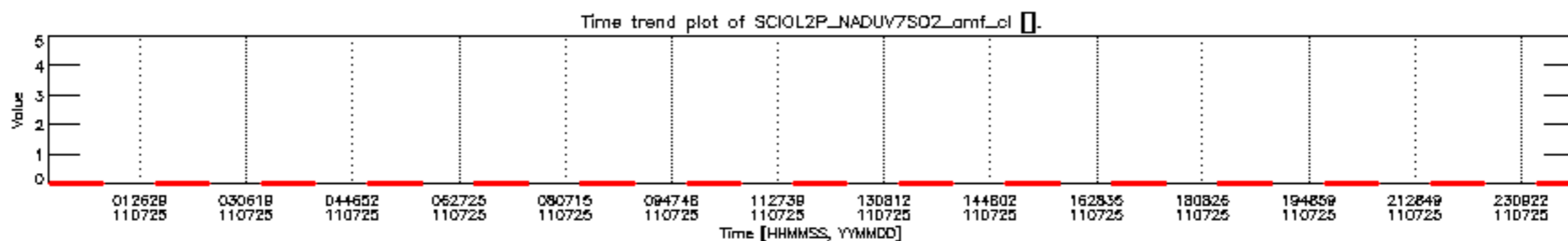
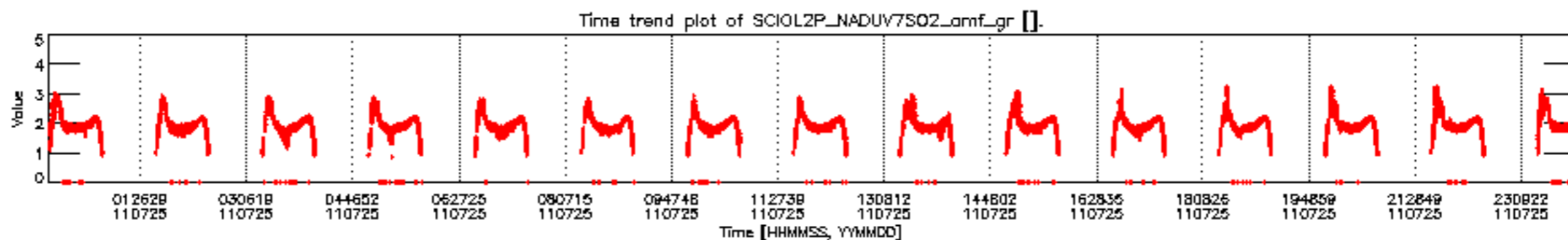
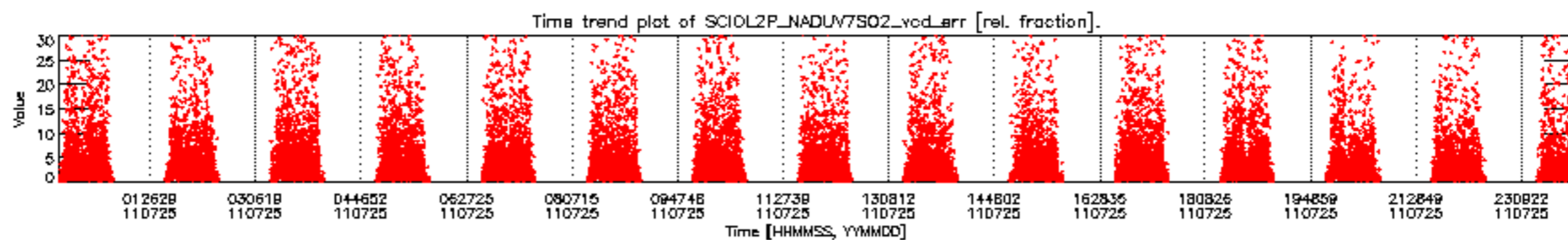
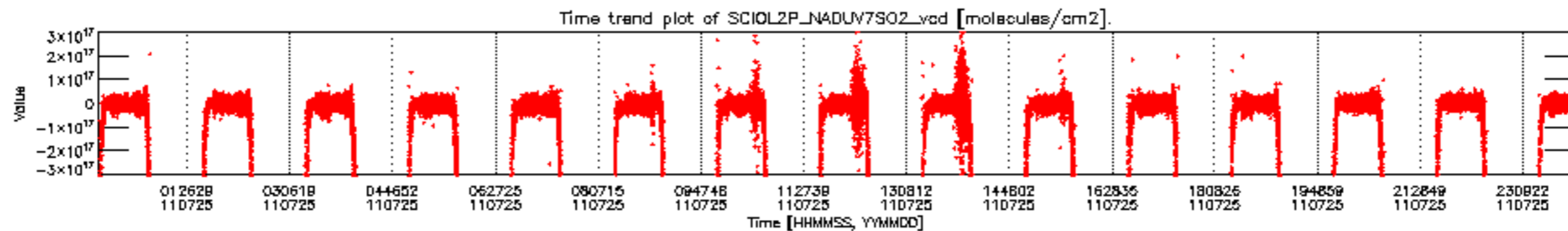
SCIOL2P\_NADUV5S02\_amf\_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



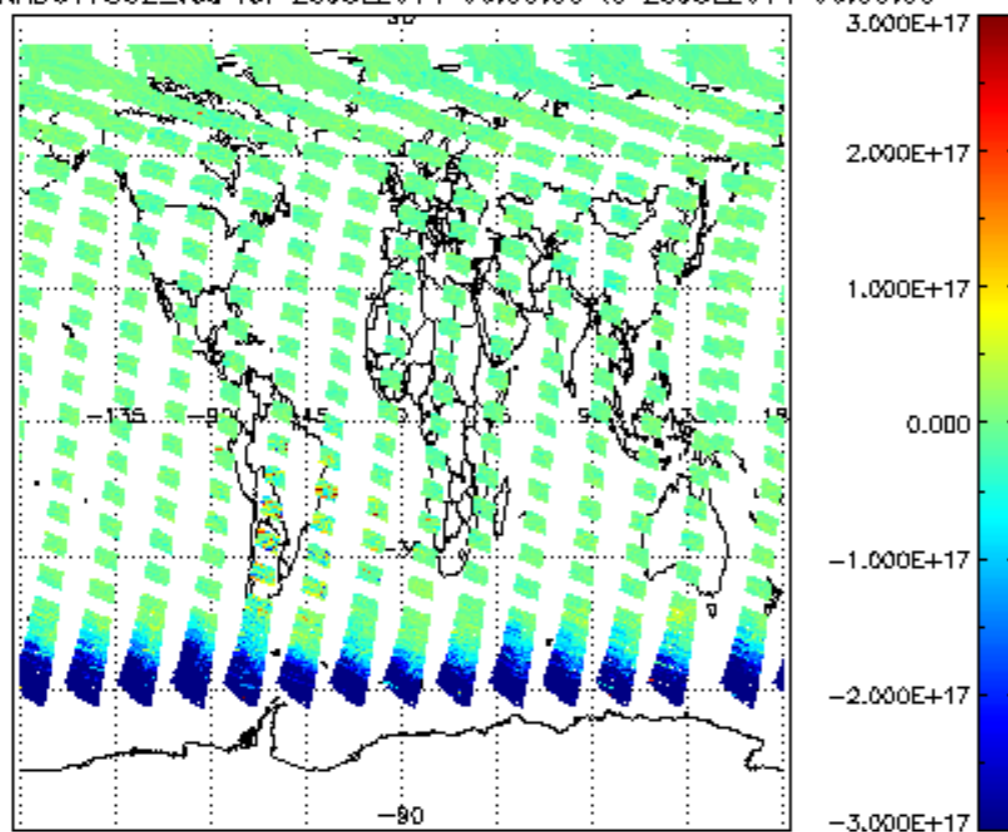
SCIOL2P\_NADUV5S02\_amf\_cl for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



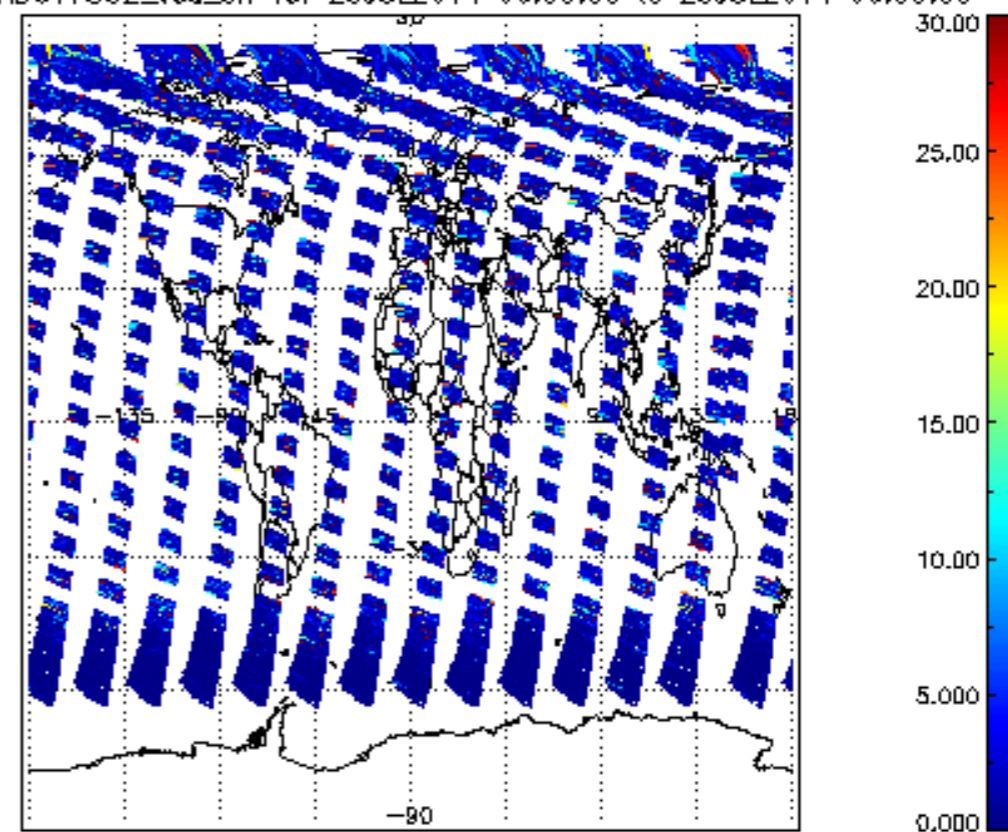




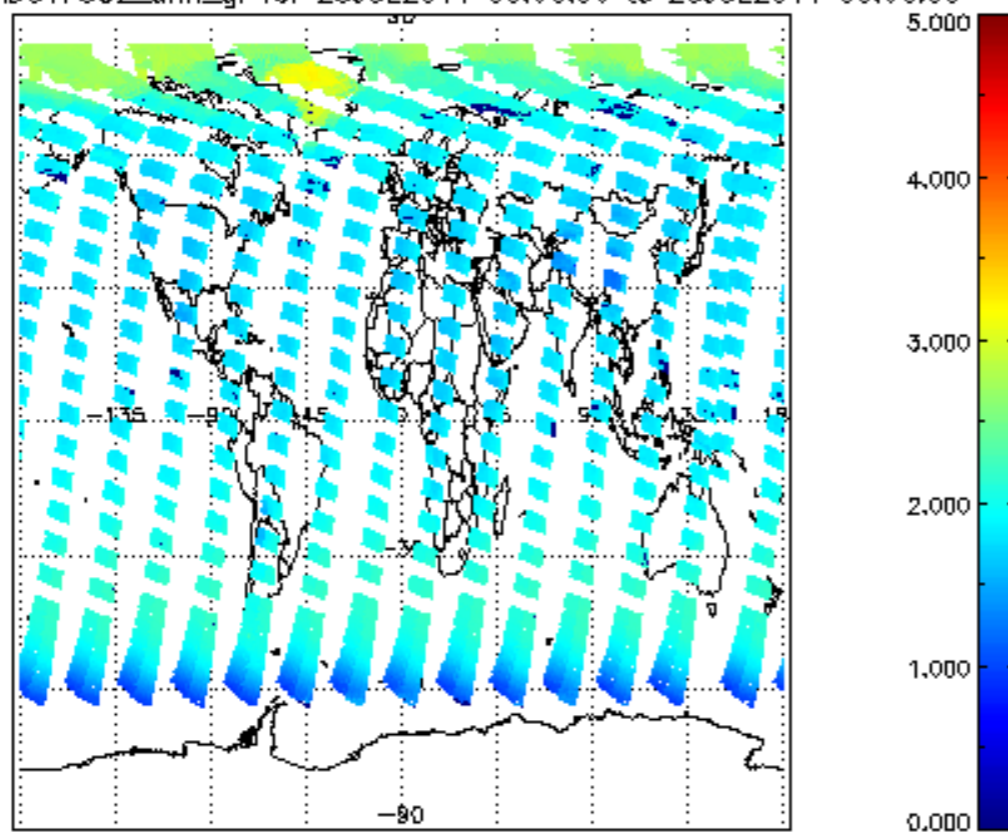
SCIOL2P\_NADUV7S02\_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



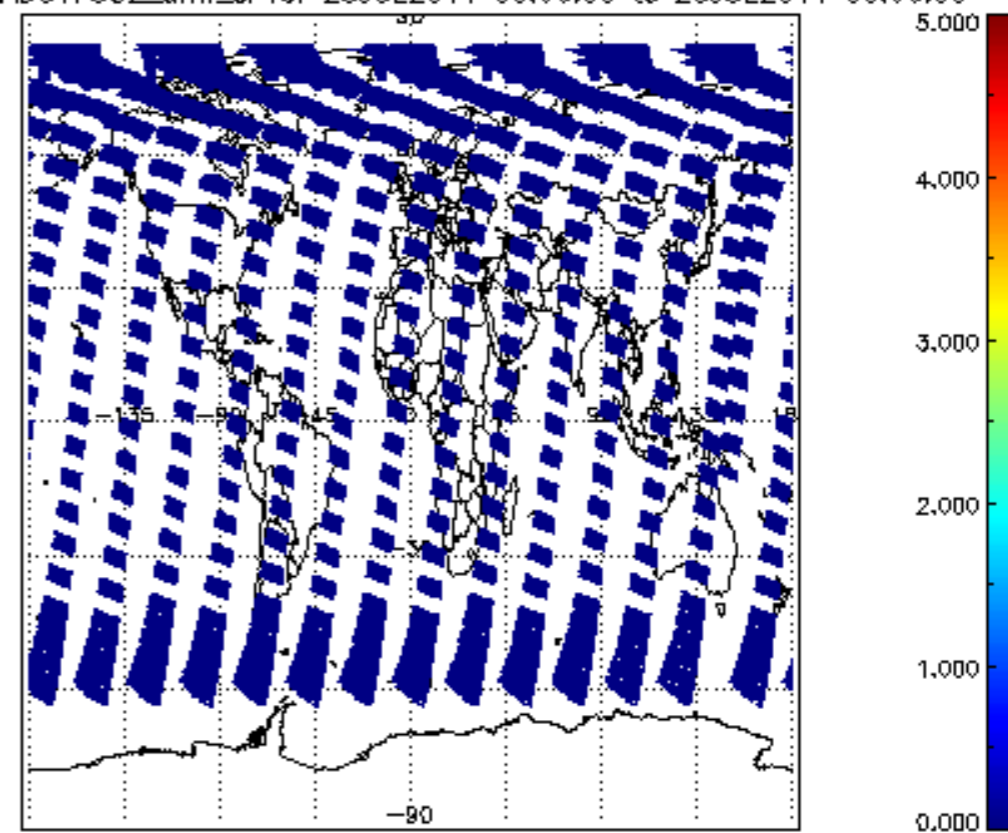
SCIOL2P\_NADUV7S02\_vcd\_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



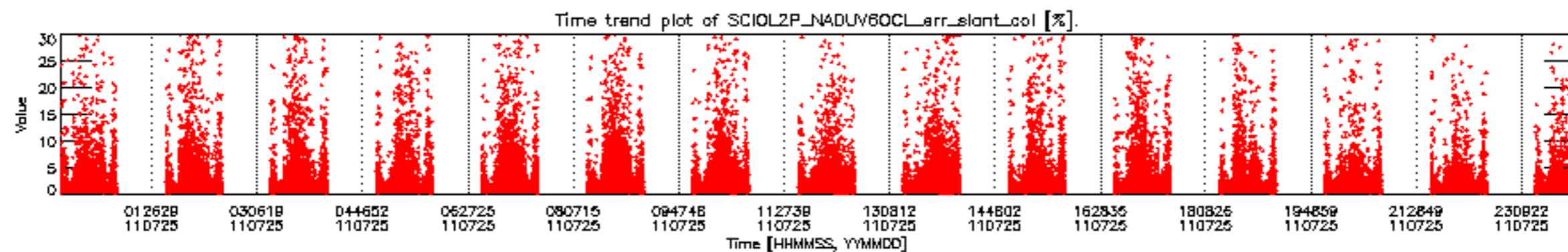
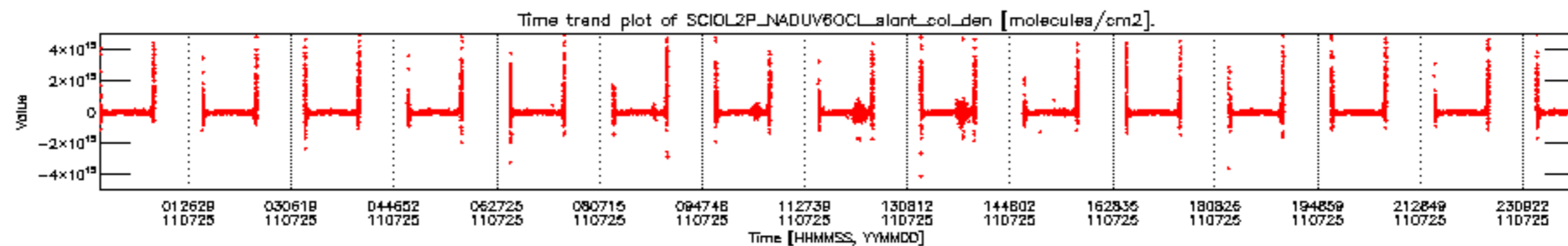
SCIOL2P\_NADUV7S02\_amf\_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



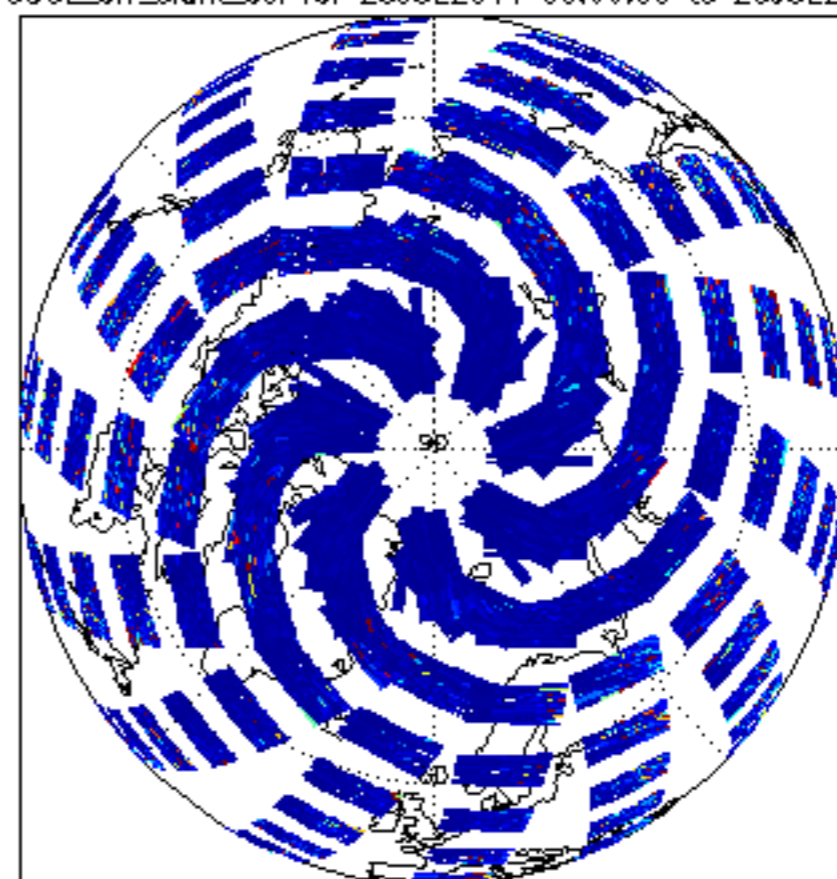
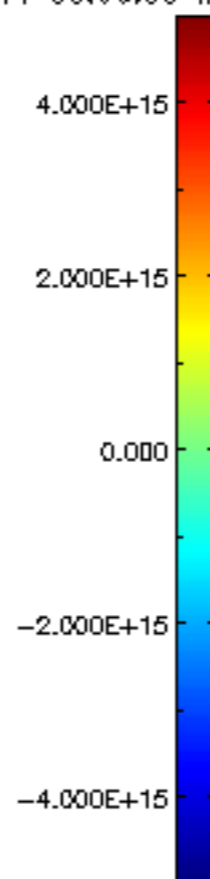
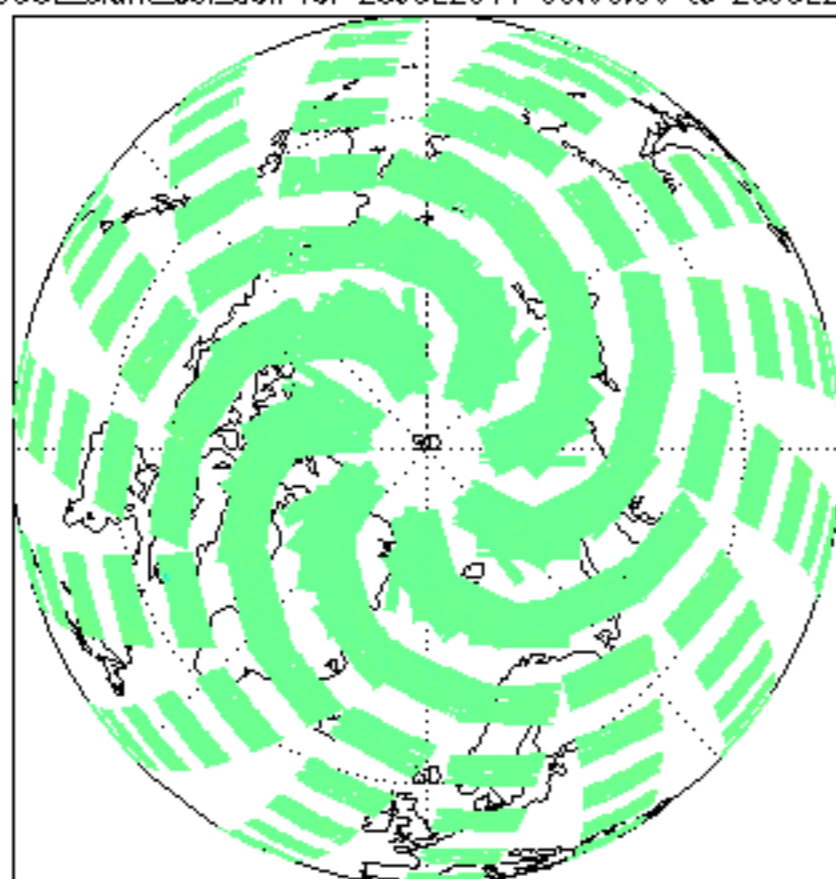
SCIOL2P\_NADUV7S02\_amf\_cl for 25JUL2011 00:00:00 to 26JUL2011 00:00:00





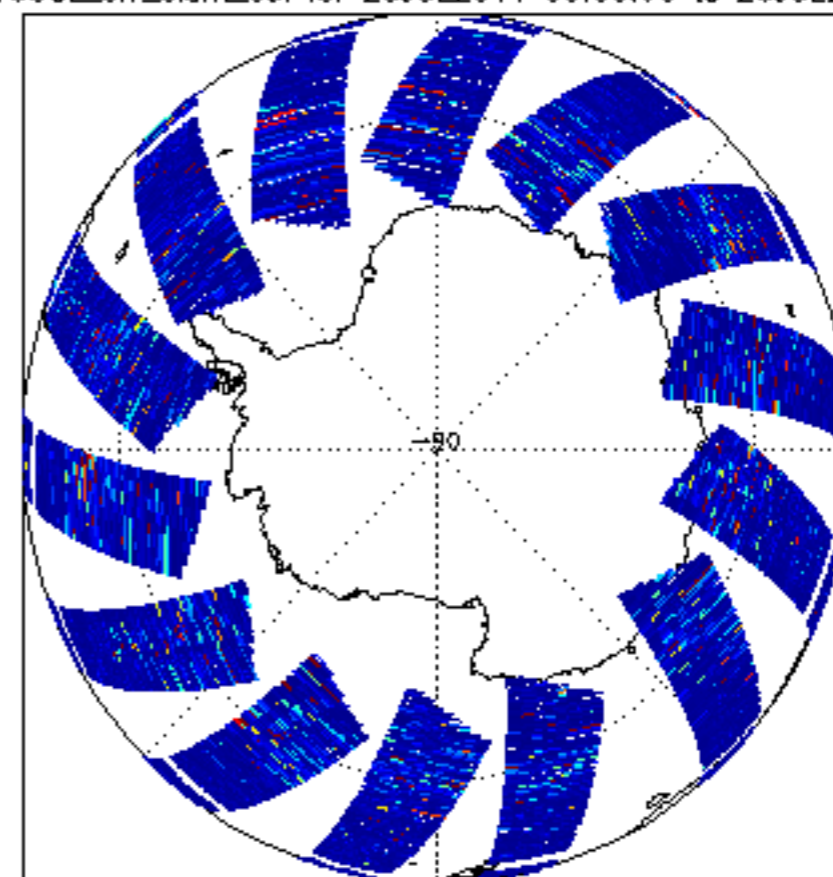
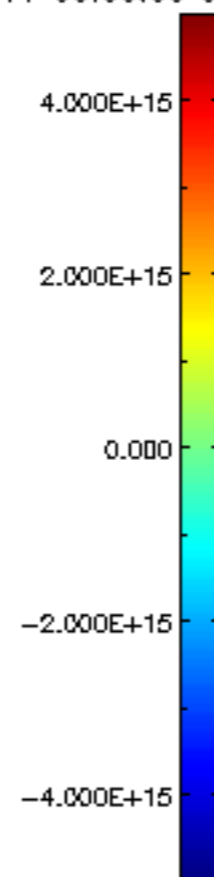
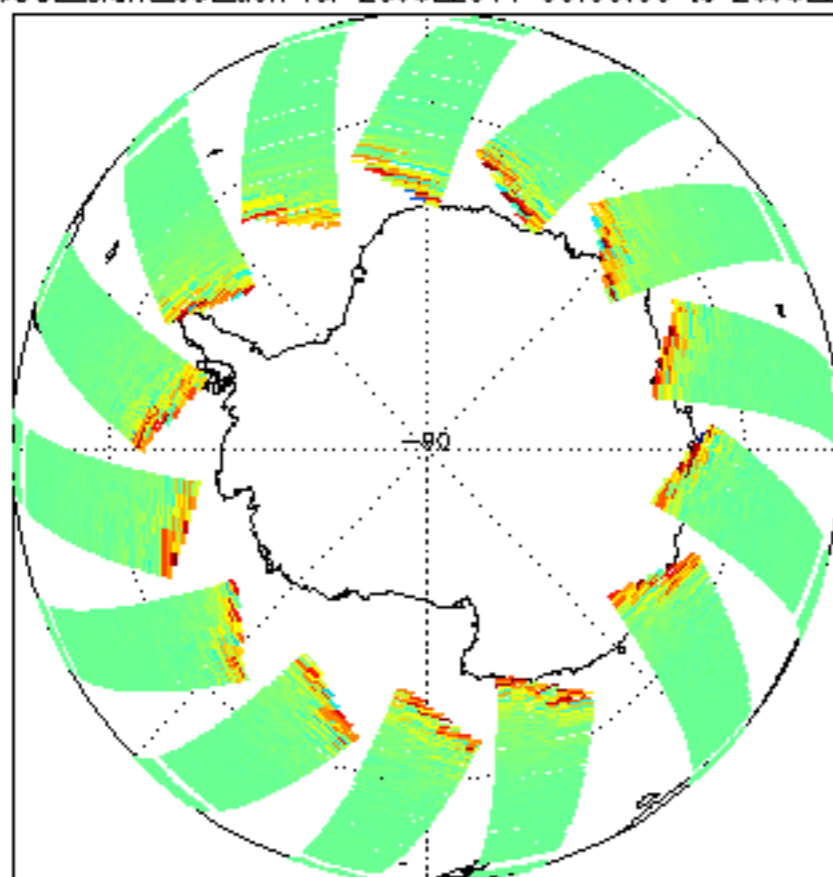


iCIOL2P\_NADUV6OCL\_slant\_col\_den for 25JUL2011 00:00:00 to 26JUL2011 00:00:00 np 3iCIOL2P\_NADUV6OCL\_err\_slant\_col for 25JUL2011 00:00:00 to 26JUL2011 00:00:00 np





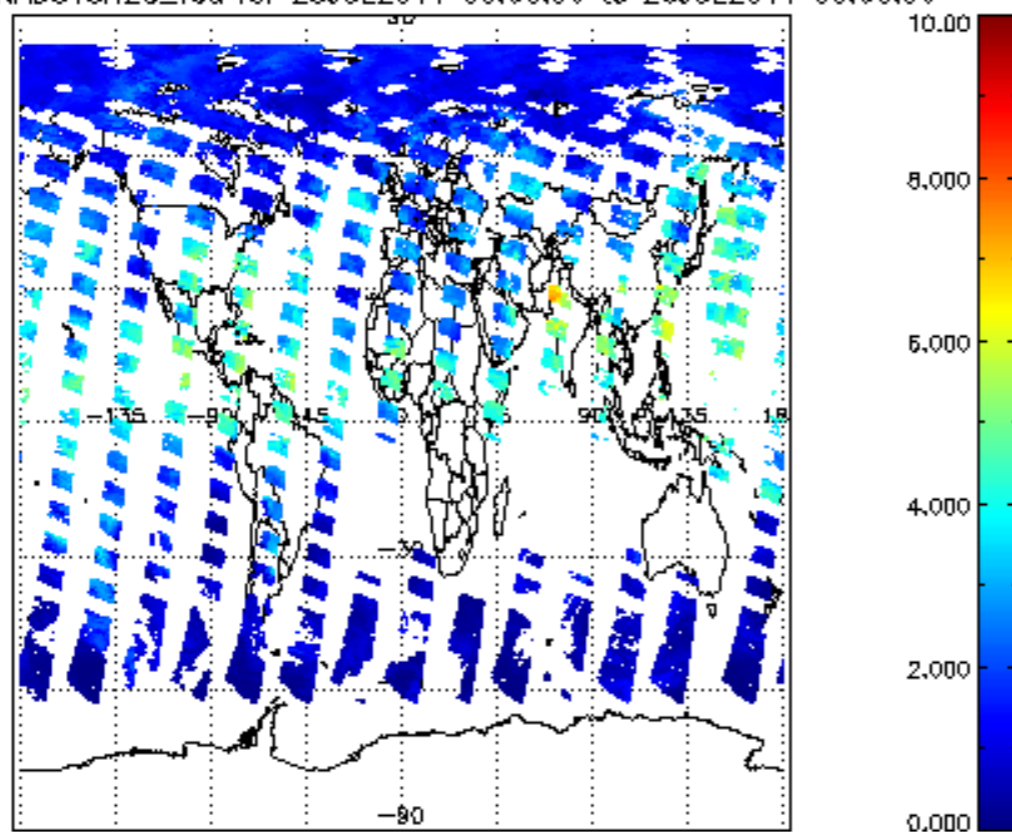
iCIOL2P\_NADUV60CL\_slant\_coLden for 25JUL2011 00:00:00 to 26JUL2011 00:00:00 sp }iCIOL2P\_NADUV60CL\_em\_slant\_col for 25JUL2011 00:00:00 to 26JUL2011 00:00:00 sp



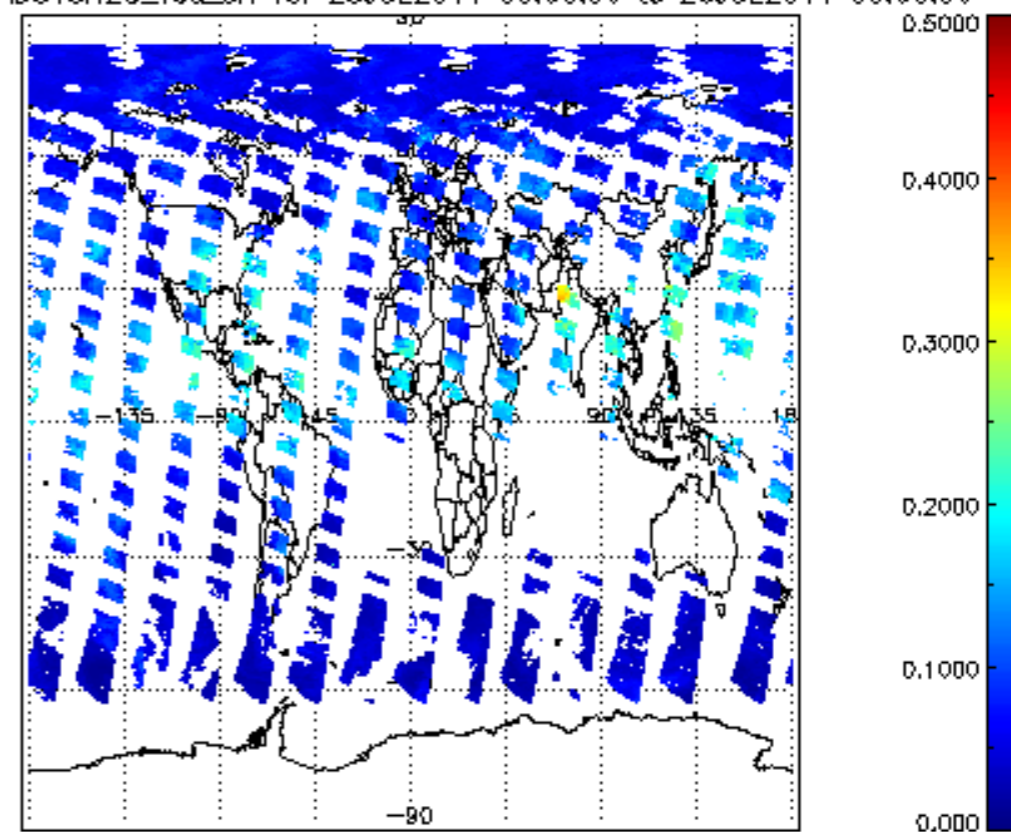




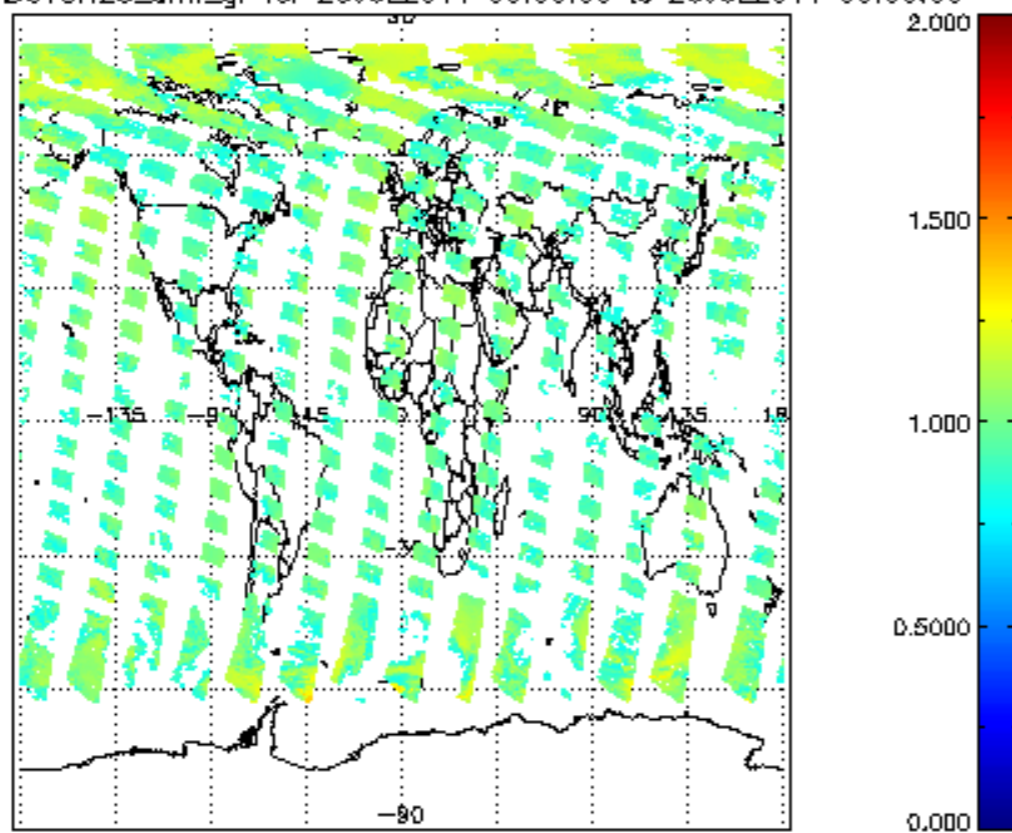
SCIOL2P\_NADUV8H20\_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00

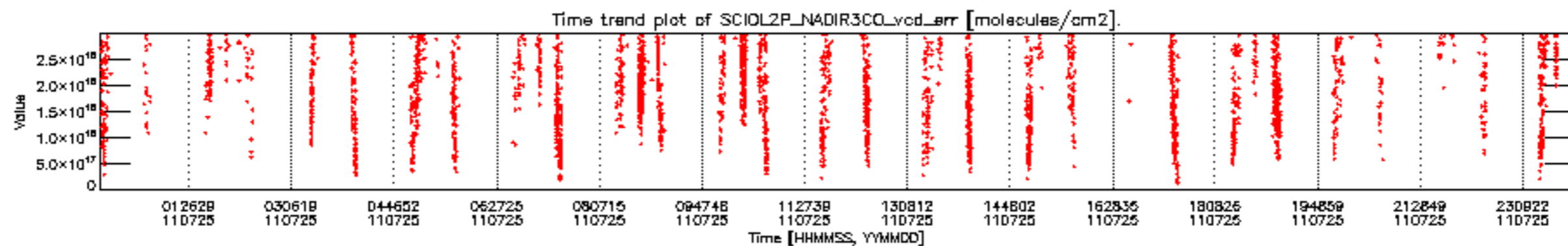
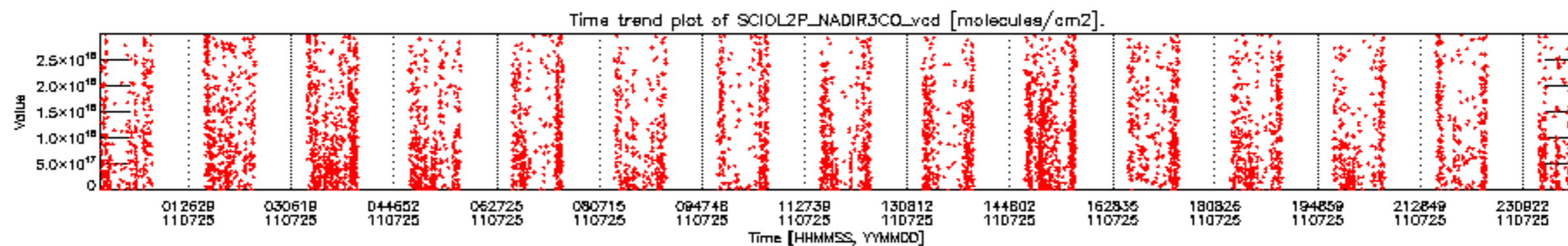


SCIOL2P\_NADUV8H20\_vcd\_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



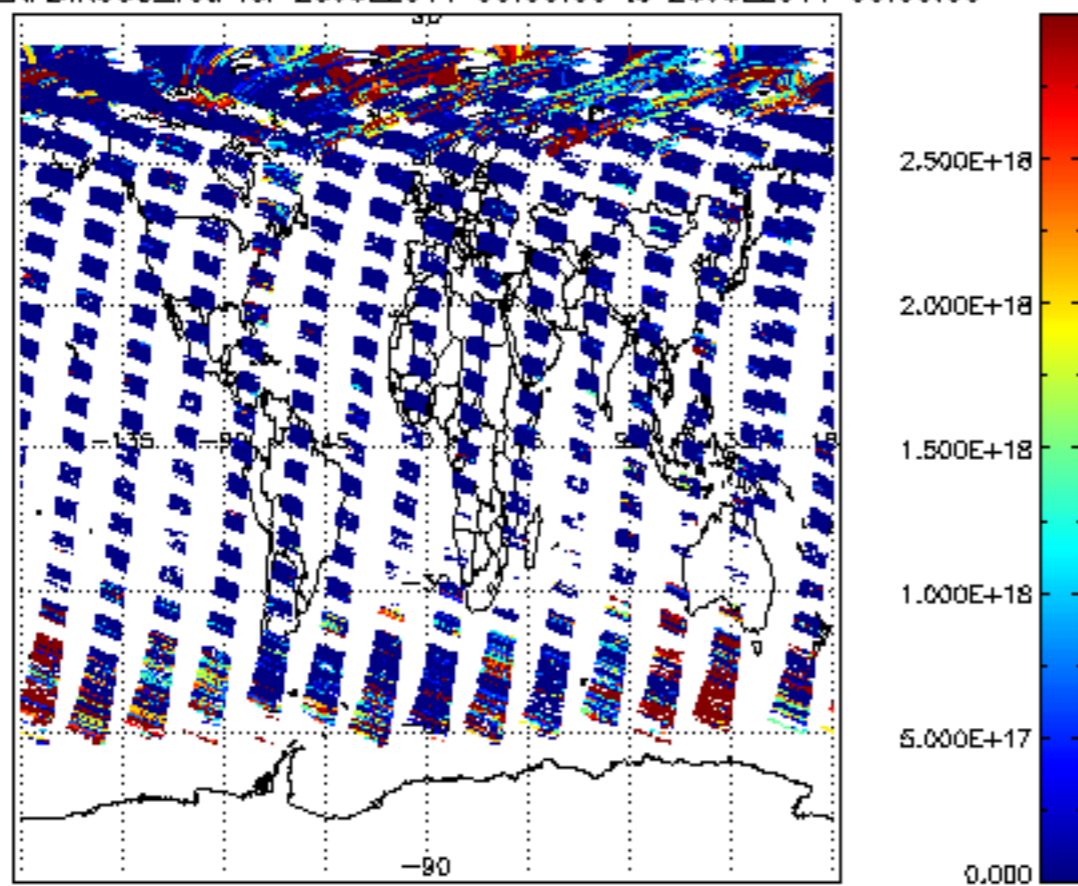
SCIOL2P\_NADUV8H20\_amf\_gr for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



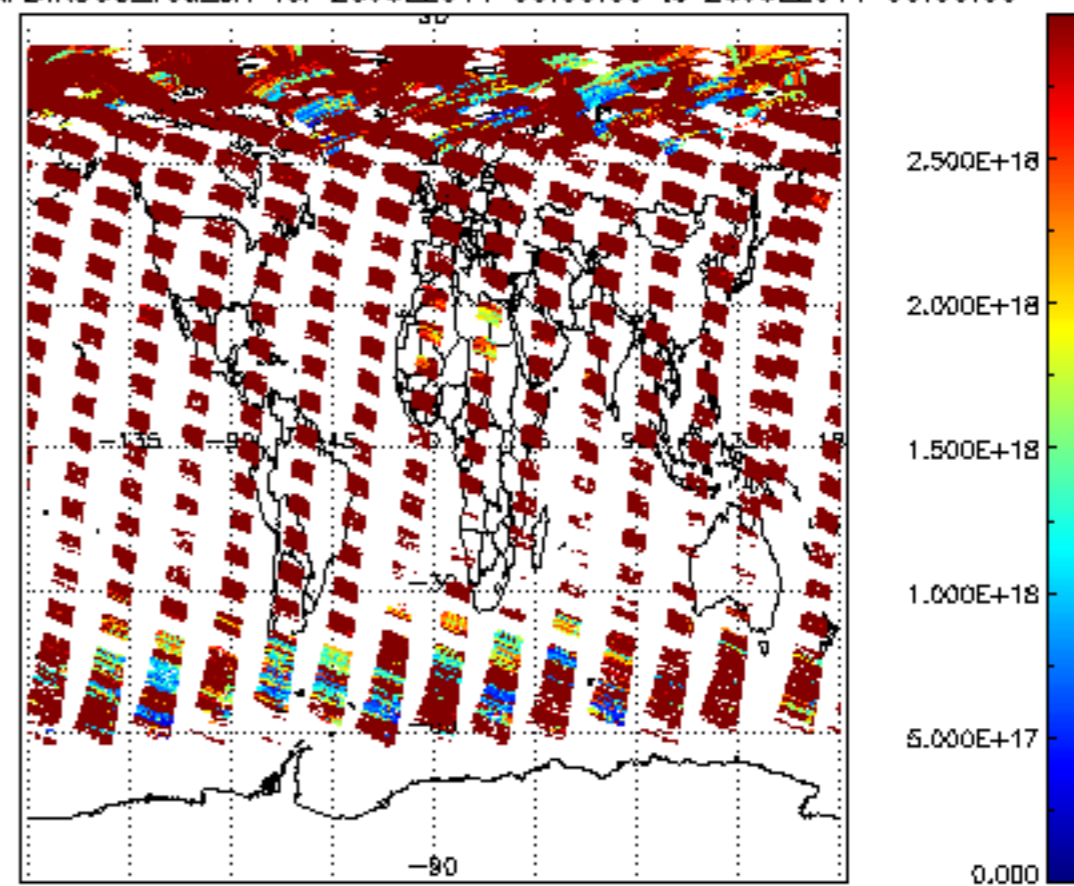




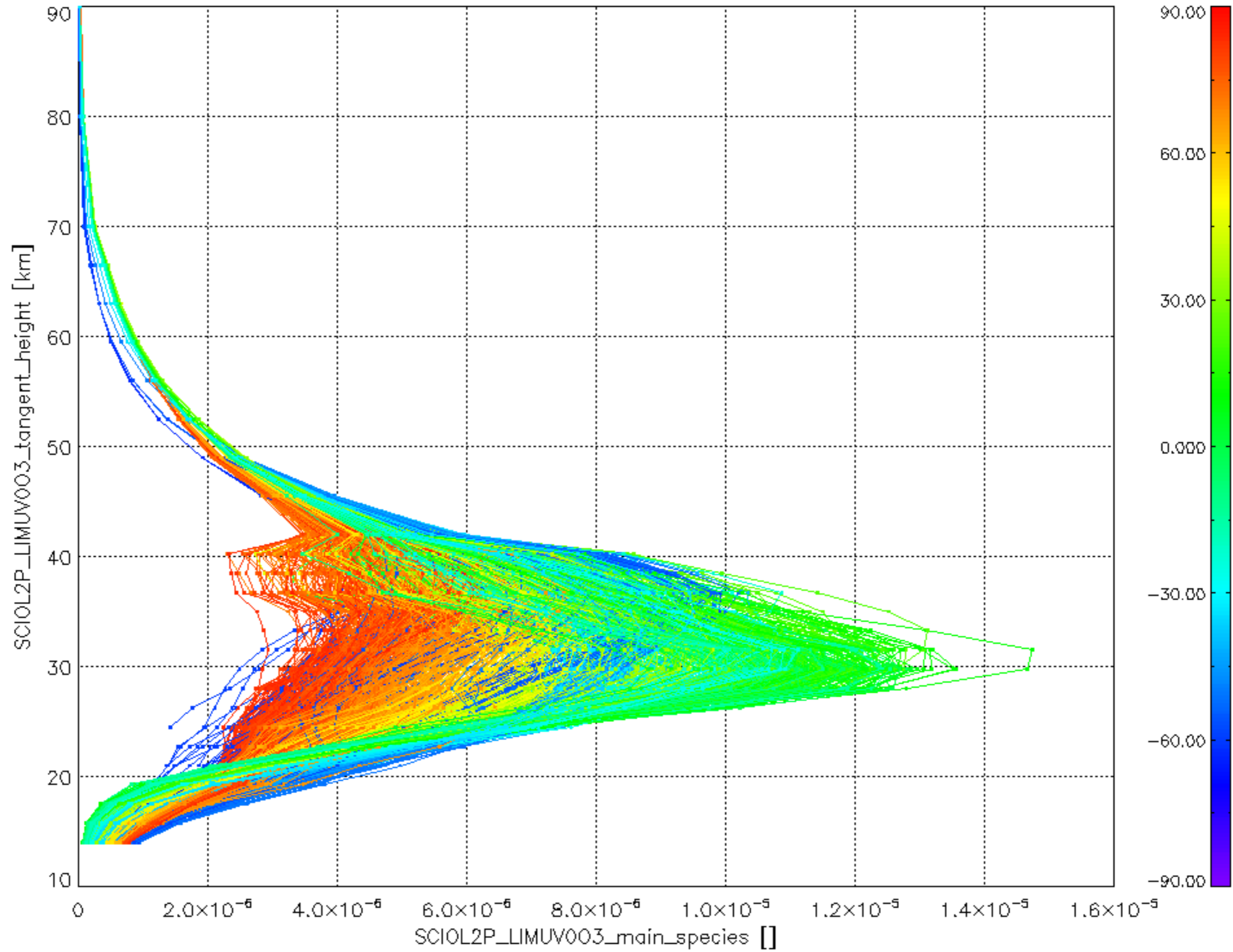
SCIOL2P\_NADIR3CO\_vcd for 25JUL2011 00:00:00 to 26JUL2011 00:00:00



SCIOL2P\_NADIR3CO\_vcd\_err for 25JUL2011 00:00:00 to 26JUL2011 00:00:00

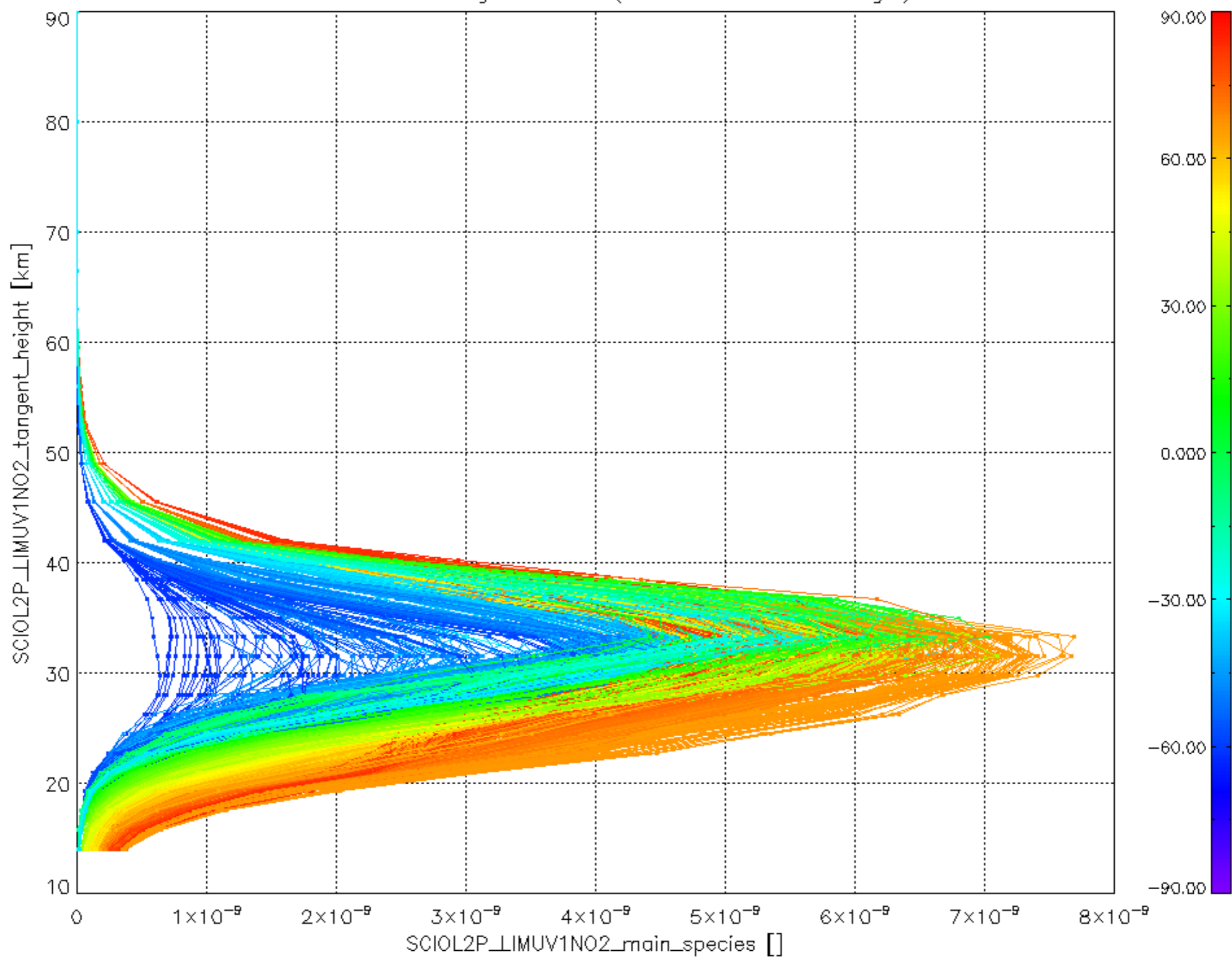


Plot of SCIOL2P\_LIMUV003\_main\_species.tang\_vmr vs. tangent height.  
 Colours indicate tangent latitude (see colour bar on the right).





Plot of SCIOL2P\_LIMUV1N02\_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).

