

## 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                | 26SEP2011 03:17:47                       |
| Data source version                      | SCIA-OL/5.01-U                           |
| Processing scope for products            | 13SEP2011 00:00:00 to 14SEP2011 00:00:00 |
| Start time of first product within scope | 12SEP2011 23:26:24                       |
| Stop time of last product within scope   | 13SEP2011 23:48:38                       |
| 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__2PUDPA20110912_232624_000035473106_00289_49872_6523.N1</a> | 12SEP2011 23:26:24 | 13SEP2011 00:25:32 | 0        | GOOD        |
| 1 | <a href="#">SCI_OL__2PUDPA20110913_010639_000035463106_00290_49873_6524.N1</a> | 13SEP2011 01:06:39 | 13SEP2011 02:05:46 | 0        | GOOD        |
| 2 | <a href="#">SCI_OL__2PUDPA20110913_024653_000035463106_00291_49874_6525.N1</a> | 13SEP2011 02:46:53 | 13SEP2011 03:45:59 | 0        | GOOD        |
| 3 | <a href="#">SCI_OL__2PUDPA20110913_042708_000035453106_00292_49875_6526.N1</a> | 13SEP2011 04:27:08 | 13SEP2011 05:26:13 | 0        | GOOD        |
| 4 | <a href="#">SCI_OL__2PUDPA20110913_060722_000035433106_00293_49876_6527.N1</a> | 13SEP2011 06:07:22 | 13SEP2011 07:06:26 | 0        | GOOD        |

|    |  |                    |                    |   |      |
|----|--|--------------------|--------------------|---|------|
| 5  | SCI_OL__2PUDPA20110913_074737_000035423106_00294_49877_6528.N1 | 13SEP2011 07:47:37 | 13SEP2011 08:46:39 | 0 | GOOD |
| 6  | SCI_OL__2PUDPA20110913_092751_000035413106_00295_49878_6529.N1 | 13SEP2011 09:27:51 | 13SEP2011 10:26:52 | 0 | GOOD |
| 7  | SCI_OL__2PUDPA20110913_110806_000035393106_00296_49879_6530.N1 | 13SEP2011 11:08:06 | 13SEP2011 12:07:05 | 0 | GOOD |
| 8  | SCI_OL__2PUDPA20110913_124820_000035303106_00297_49880_6531.N1 | 13SEP2011 12:48:20 | 13SEP2011 13:47:11 | 0 | GOOD |
| 9  | SCI_OL__2PUDPA20110913_142835_000035843106_00298_49881_6532.N1 | 13SEP2011 14:28:35 | 13SEP2011 15:28:19 | 0 | GOOD |
| 10 | SCI_OL__2PUDPA20110913_160849_000035303106_00299_49882_6533.N1 | 13SEP2011 16:08:49 | 13SEP2011 17:07:40 | 0 | GOOD |
| 11 | SCI_OL__2PUDPA20110913_174916_000035163106_00300_49883_6534.N1 | 13SEP2011 17:49:16 | 13SEP2011 18:47:53 | 0 | GOOD |
| 12 | SCI_OL__2PUDPA20110913_192931_000035303106_00301_49884_6535.N1 | 13SEP2011 19:29:31 | 13SEP2011 20:28:22 | 0 | GOOD |
| 13 | SCI_OL__2PUDPA20110913_210933_000035843106_00302_49885_6536.N1 | 13SEP2011 21:09:33 | 13SEP2011 22:09:17 | 0 | GOOD |
| 14 | SCI_OL__2PUDPA20110913_224947_000035303106_00303_49886_6537.N1 | 13SEP2011 22:49:47 | 13SEP2011 23:48:38 | 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: 160680

Total number of cloud data DSRs with good quality flag (=0): 160680 (100.0 %)

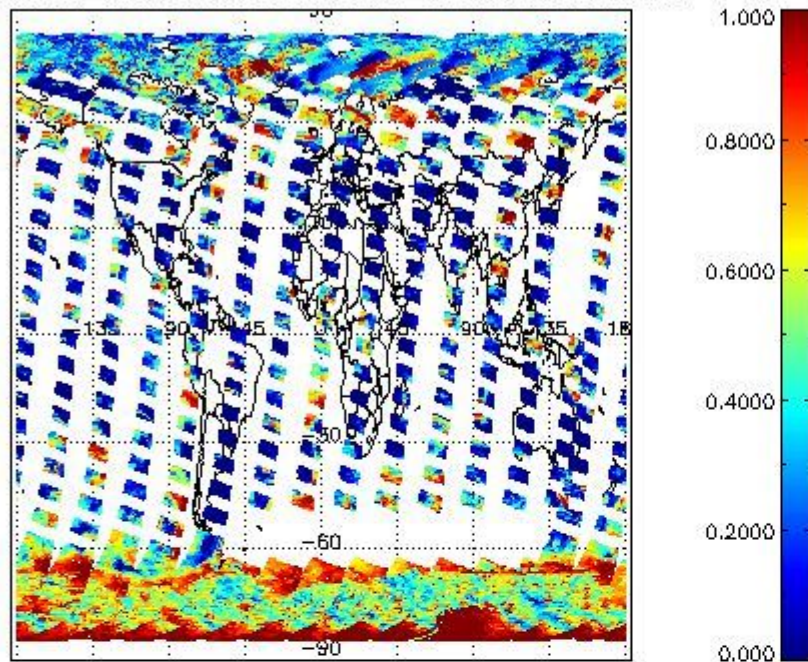
| Parameter         | #valid | Mean     | Median   | Min      | Max      | Stddev   | Unit |
|-------------------|--------|----------|----------|----------|----------|----------|------|
| QUALITY_FLAG      | 160680 | 0.0000   | 0.0000   | 0.0000   | 0.0000   | 0.0000   |      |
| INTEGR_TIME       | 160680 | 0.16667  | 0.12500  | 0.12500  | 0.25000  | 0.058926 | s    |
| CL_FRAC           | 160680 | 0.43466  | 0.41665  | 0.0000   | 1.0000   | 0.33173  |      |
| CL_FRAC_ERR       | 160680 | 0.0000   | 0.0000   | 0.0000   | 0.0000   | 0.0000   | %    |
| PMD_READ          | 160680 | 5.3333   | 4.0000   | 4.0000   | 8.0000   | 1.8856   |      |
| PMD_READ_CL[0]    | 160680 | 0.50152  | 0.0000   | 0.0000   | 8.0000   | 1.2799   | -    |
| PMD_READ_CL[1]    | 160680 | 1.4317   | 0.0000   | 0.0000   | 8.0000   | 2.6766   | -    |
| CL_TOP_HEIGHT     | 123750 | 3.6579   | 2.0213   | 0.0000   | 17.000   | 3.9883   | km   |
| CL_TOP_HEIGHT_ERR | 0      | ---      | ---      | ---      | ---      | ---      | ---  |
| CL_OPT_DEPTH      | 123750 | 62.055   | 100.00   | 0.0000   | 101.00   | 42.842   | km   |
| CL_OPT_DEPTH_ERR  | 0      | ---      | ---      | ---      | ---      | ---      | ---  |
| CL_TYPE_FLAGS     | 160680 | 11100000 | 11100000 | 11100000 | 11100000 | 0.0000   |      |
| CLOUD_FLAGS       | 160680 | 11001110 | 11000100 | 11000000 | 11100000 | 3603.6   |      |
| AERO_ABSO_IND     | 160680 | 0.19970  | 0.0000   | 0.0000   | 10.764   | 0.48315  |      |
| AERO_IND_DIAG     | 160680 | 0.0000   | 0.0000   | 0.0000   | 0.0000   | 0.0000   |      |
| AERO_FLAGS        | 160680 | 01010011 | 00000000 | 00000000 | 11000000 | 24370.   |      |

#### Time and geolocation plots:

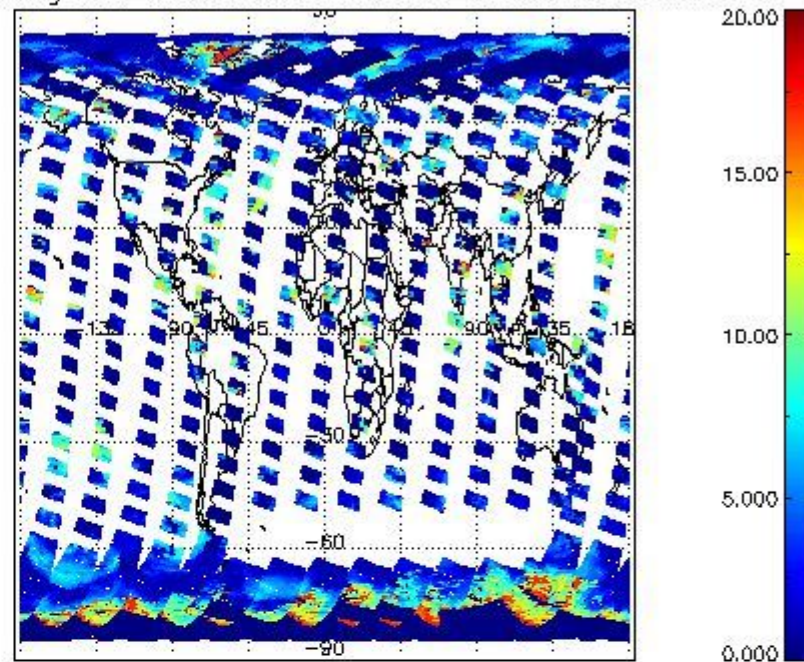
Plots are available for the following parameters:

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

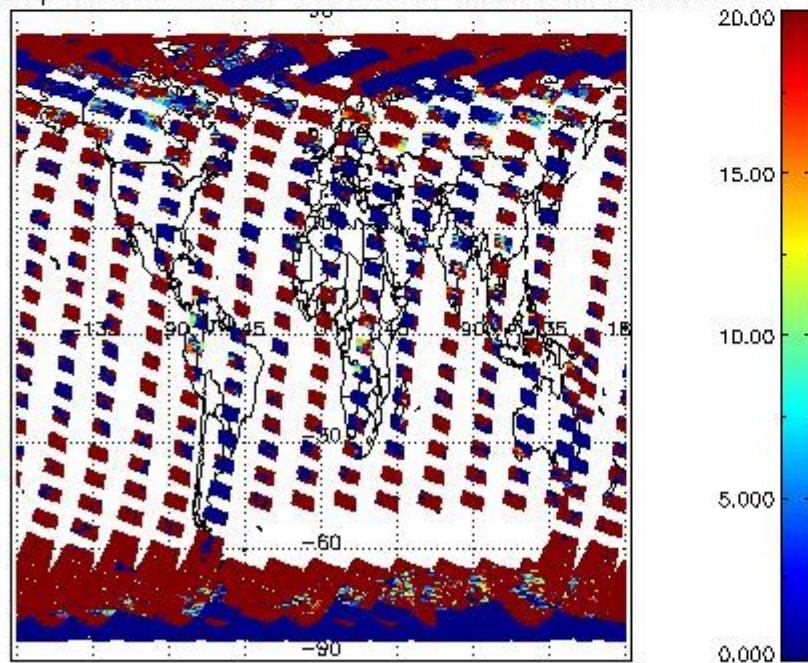
cL\_frac for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



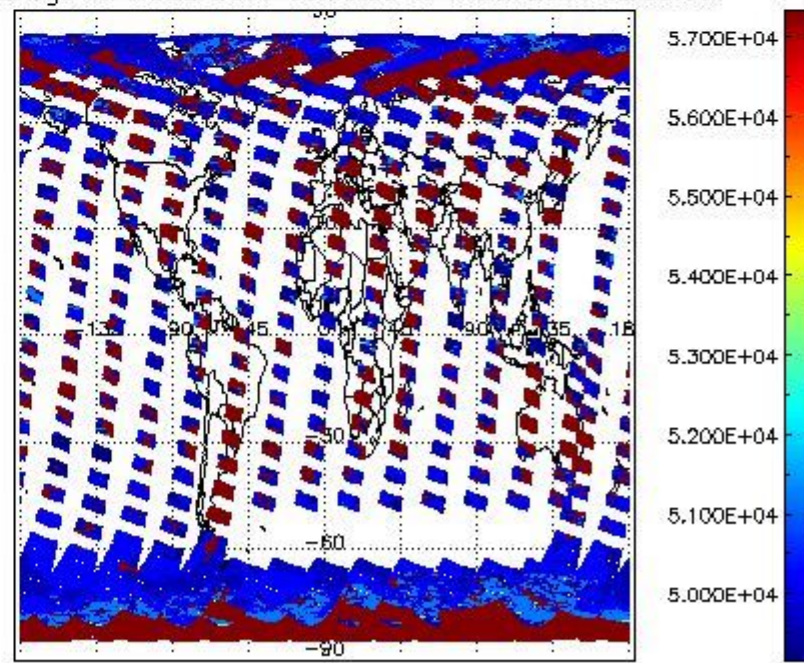
cL\_top\_height for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



cL\_opt\_depth for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



cloud\_flags for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



## 2.2.2 Nadir

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

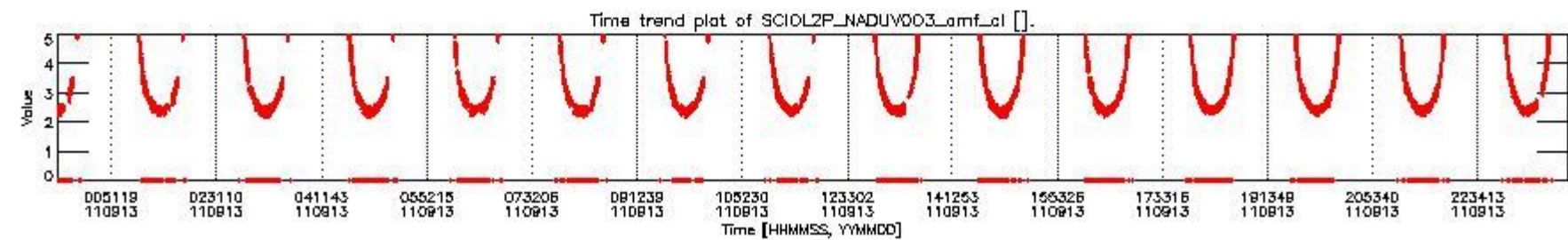
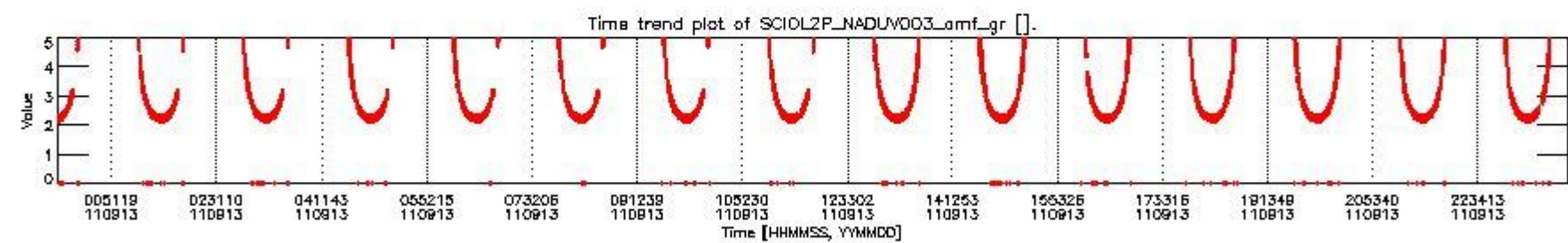
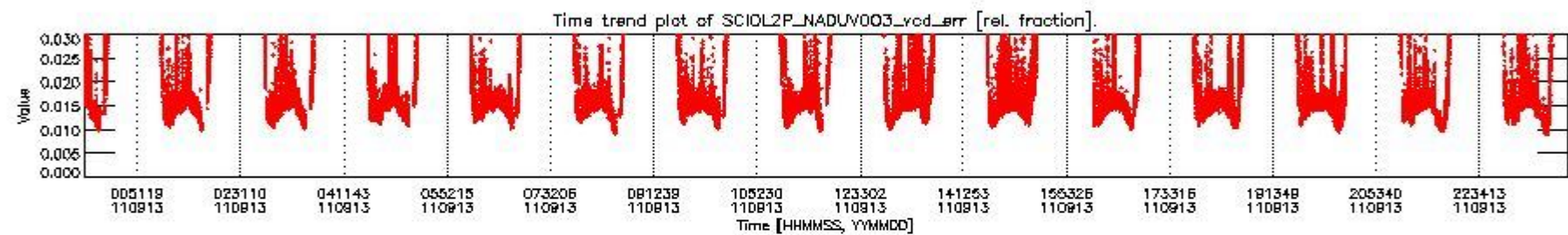
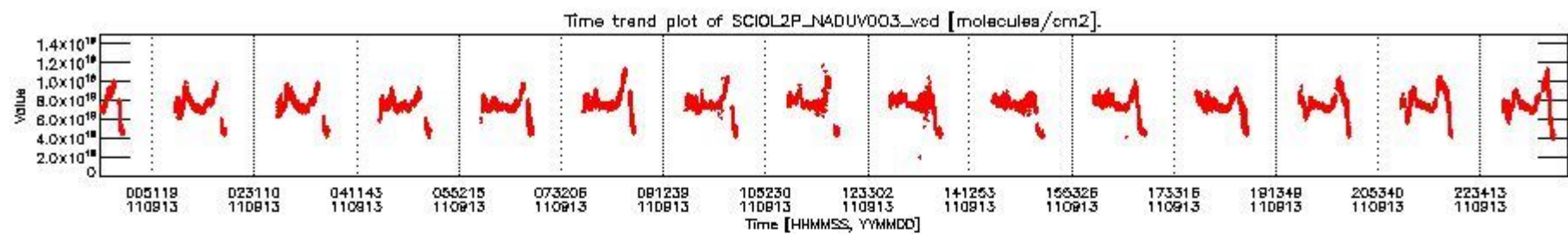
The following data items are currently included into this section:

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

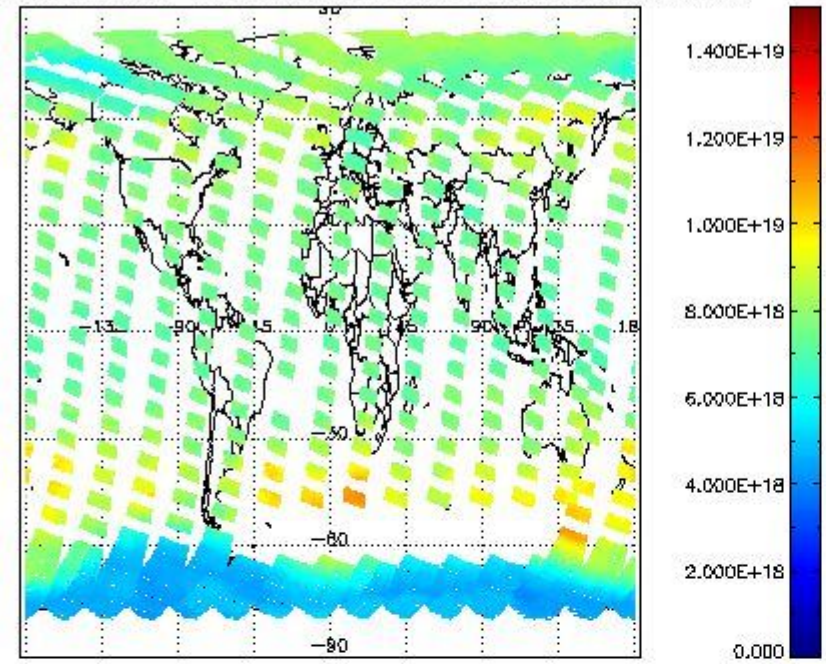
|    |                                 |
|----|---------------------------------|
| 3  | SCIOL2P_NADUV0O3_amf_cl         |
| 4  | SCIOL2P_NADUV1NO2_vcd           |
| 5  | SCIOL2P_NADUV1NO2_vcd_err       |
| 6  | SCIOL2P_NADUV1NO2_amf_gr        |
| 7  | SCIOL2P_NADUV1NO2_amf_cl        |
| 8  | SCIOL2P_NADUV3BRO_vcd           |
| 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.

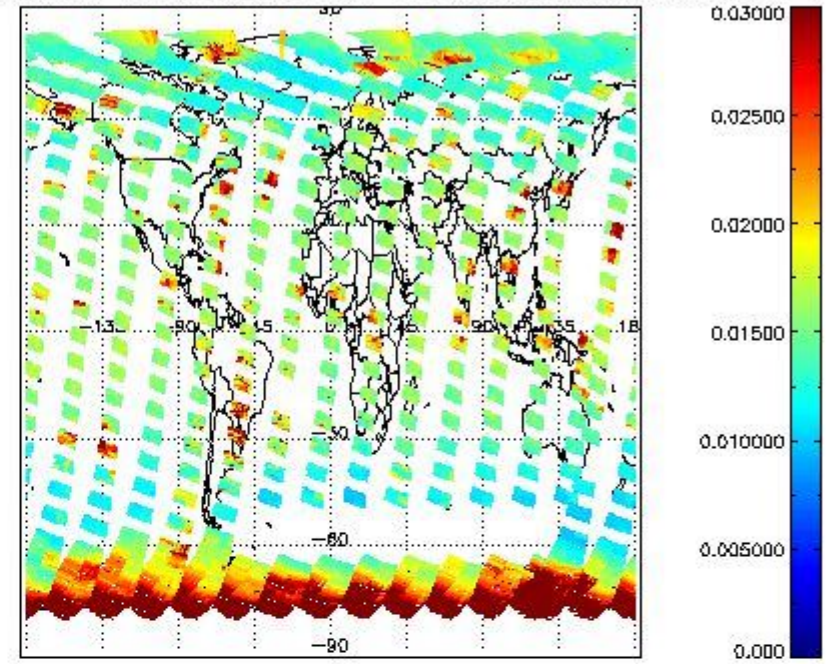
#### 2.2.2.1 O3 (UV0)



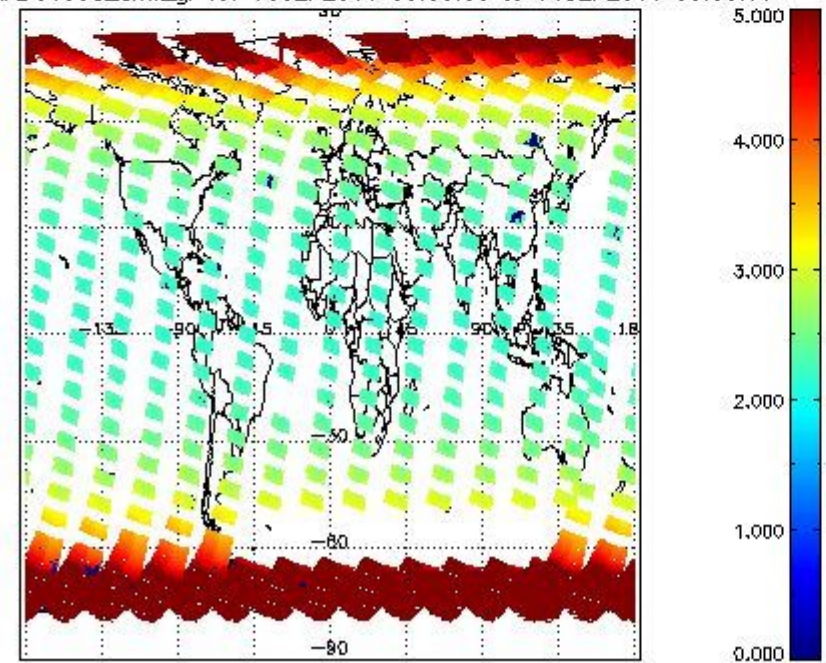
SCIOL2P\_NADUV003\_vcd for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



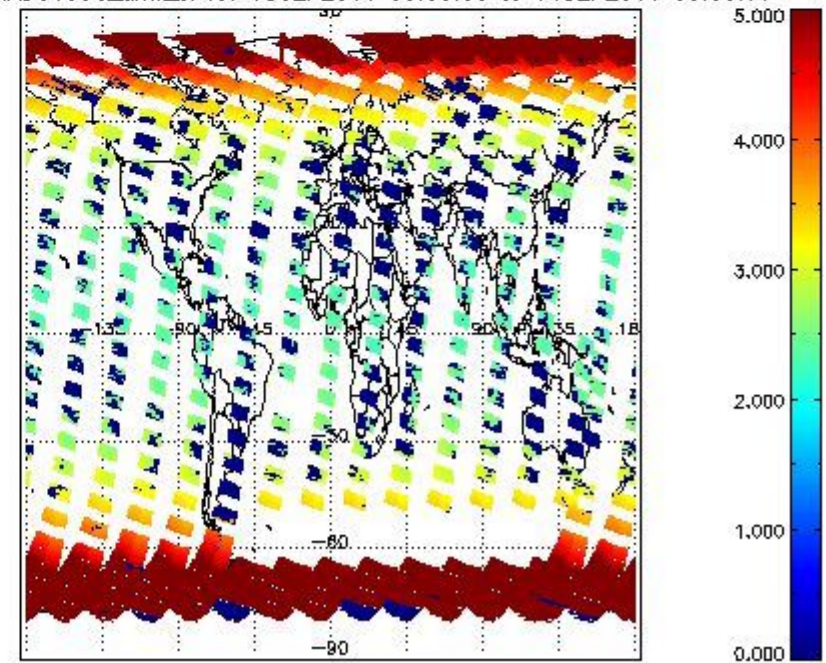
SCIOL2P\_NADUV003\_vcd\_err for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



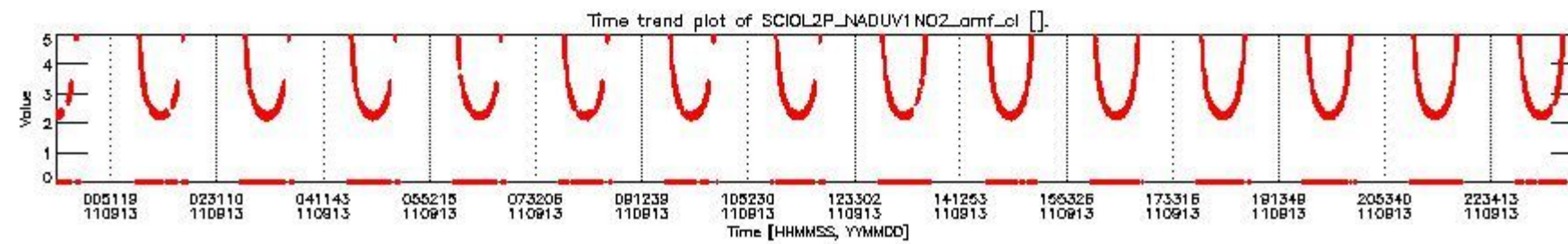
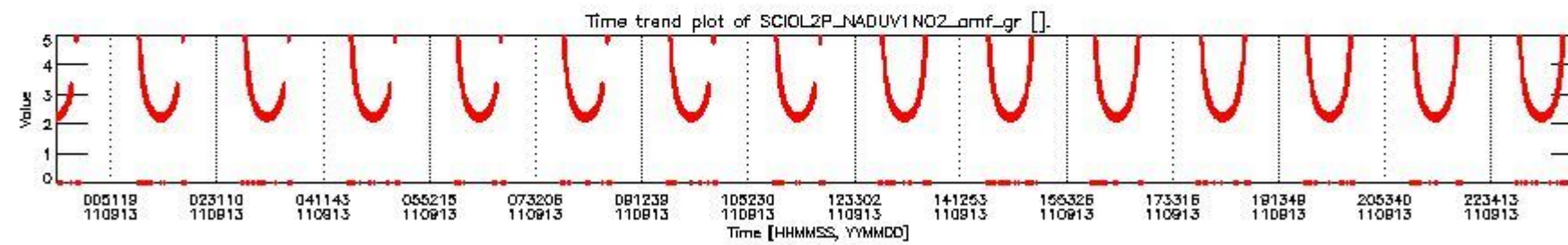
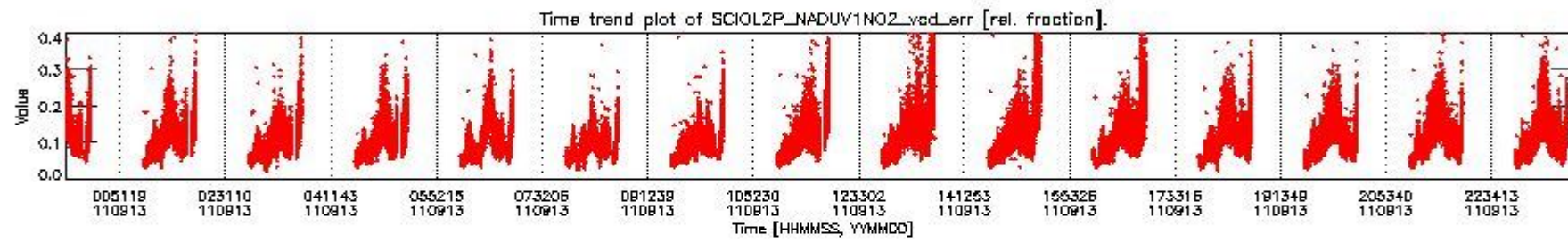
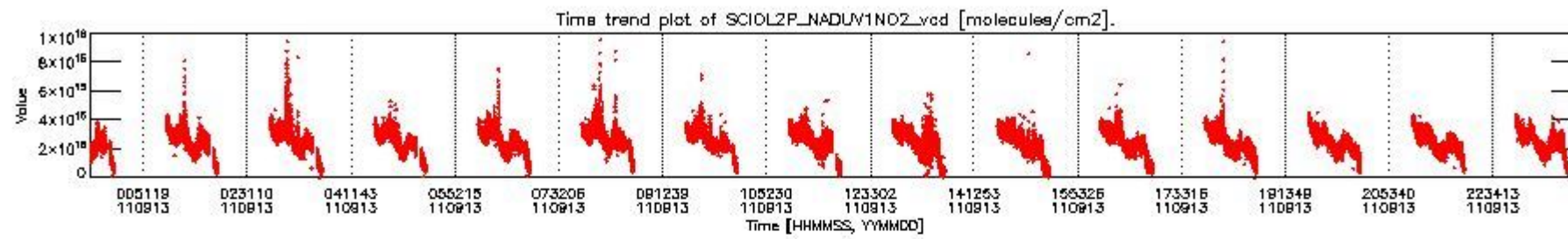
SCIOL2P\_NADUV003\_amf\_gr for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



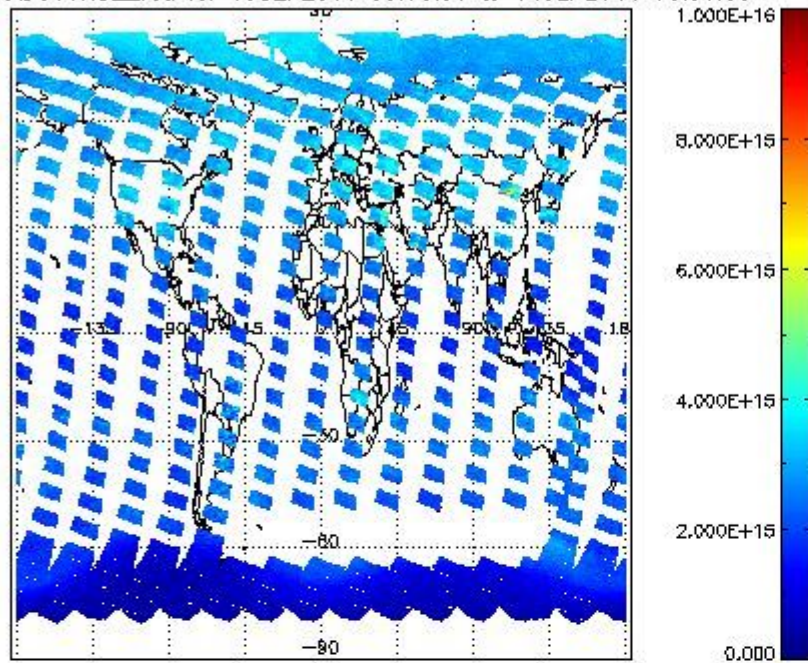
SCIOL2P\_NADUV003\_amf\_cl for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



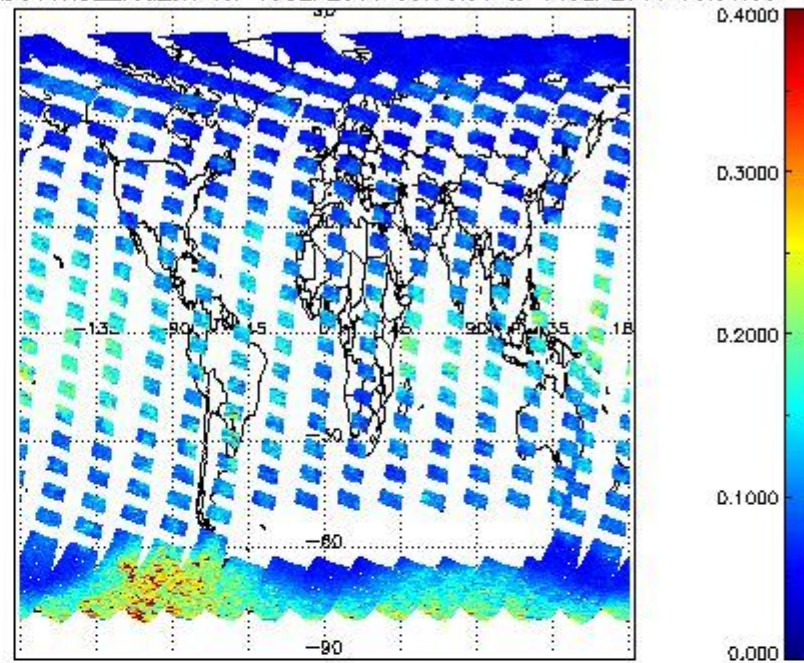
2.2.2.2 NO2 (UV1)



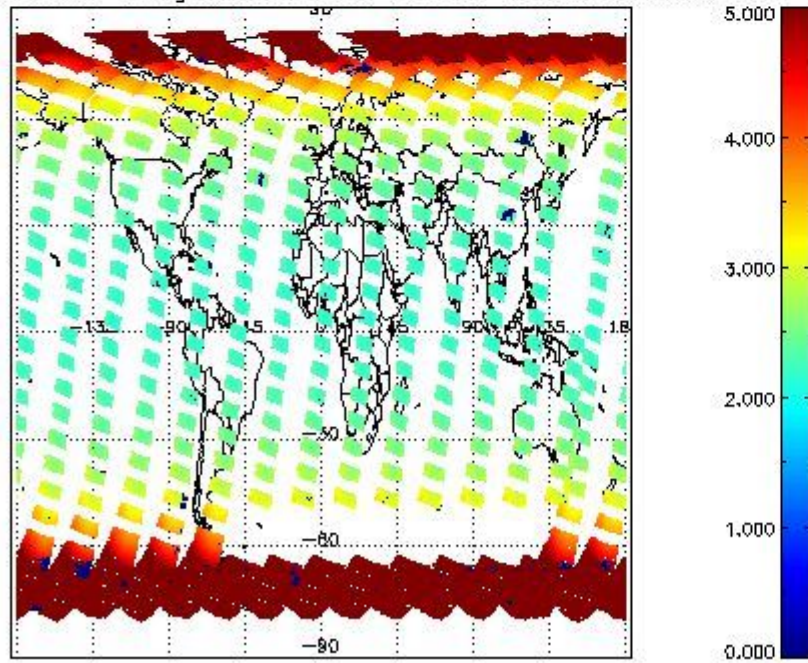
SCIOL2P\_NADUV1N02\_vcd for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



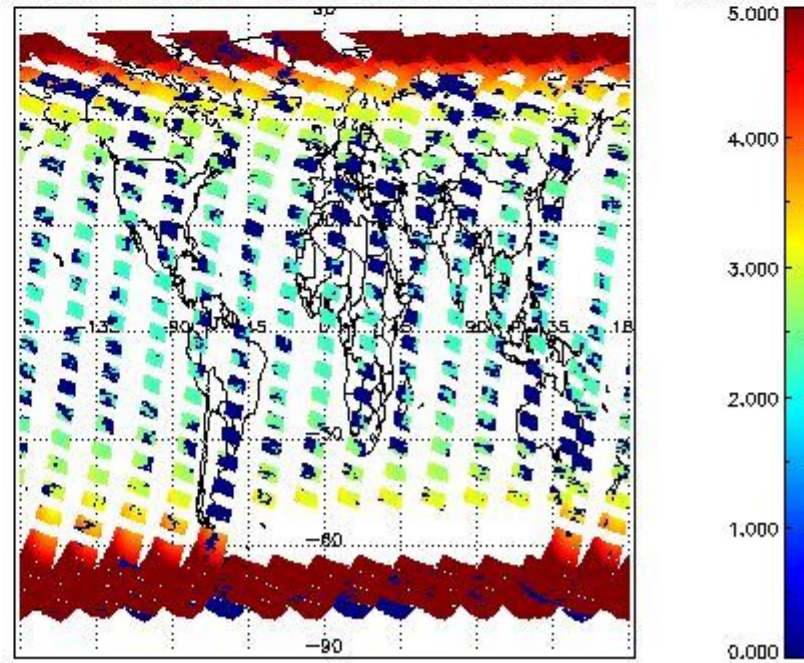
SCIOL2P\_NADUV1N02\_vcd\_err for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



SCIOL2P\_NADUV1N02\_amf\_gr for 13SEP2011 00:00:00 to 14SEP2011 00:00:00

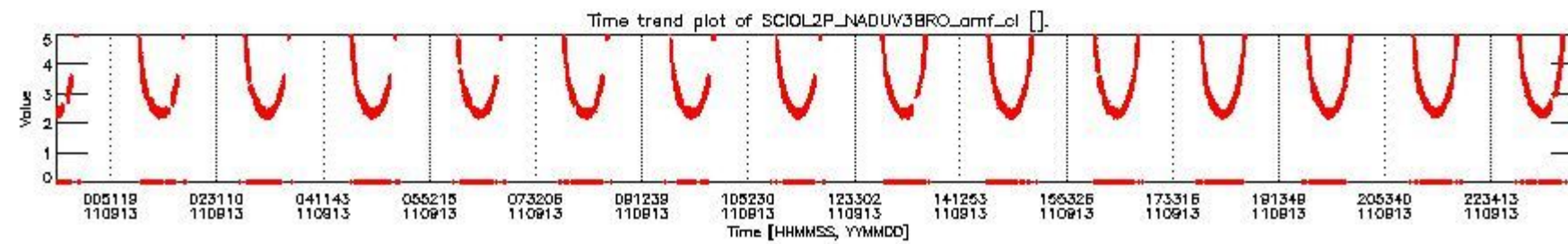
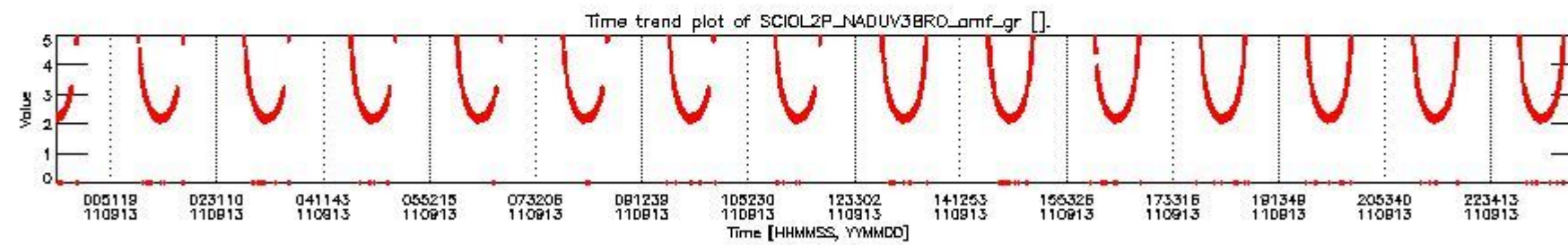
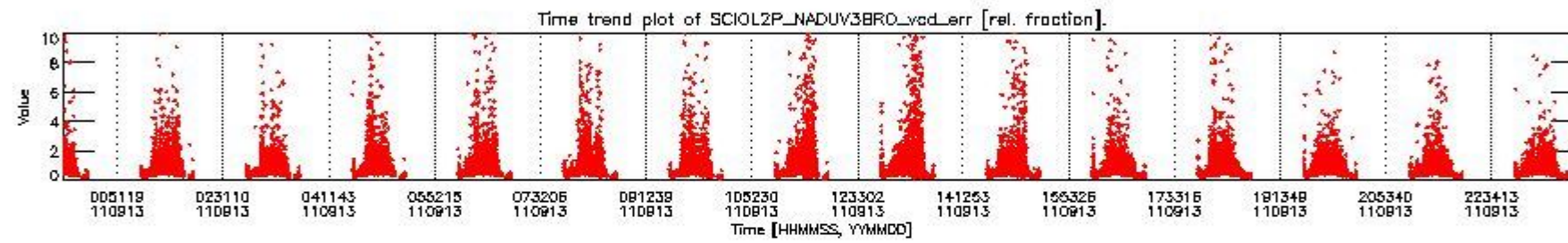
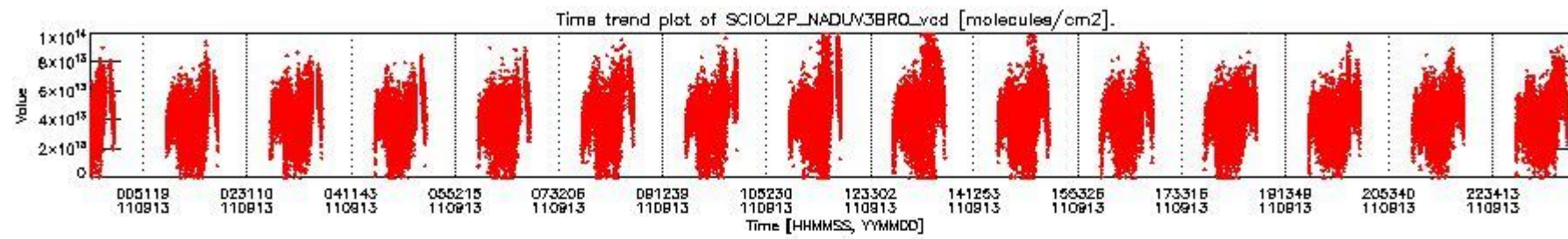


SCIOL2P\_NADUV1N02\_amf\_cl for 13SEP2011 00:00:00 to 14SEP2011 00:00:00

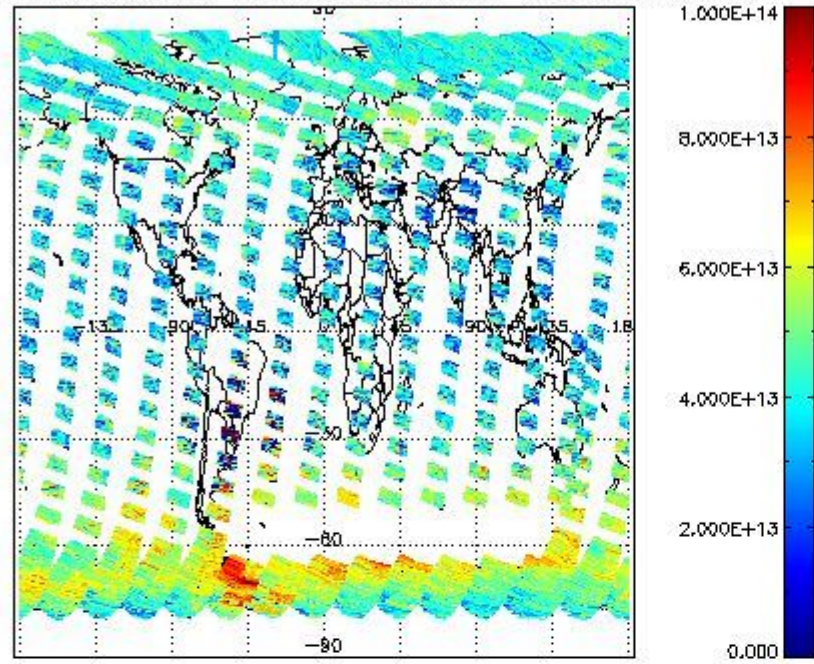


2.2.2.3 BrO (UV3)

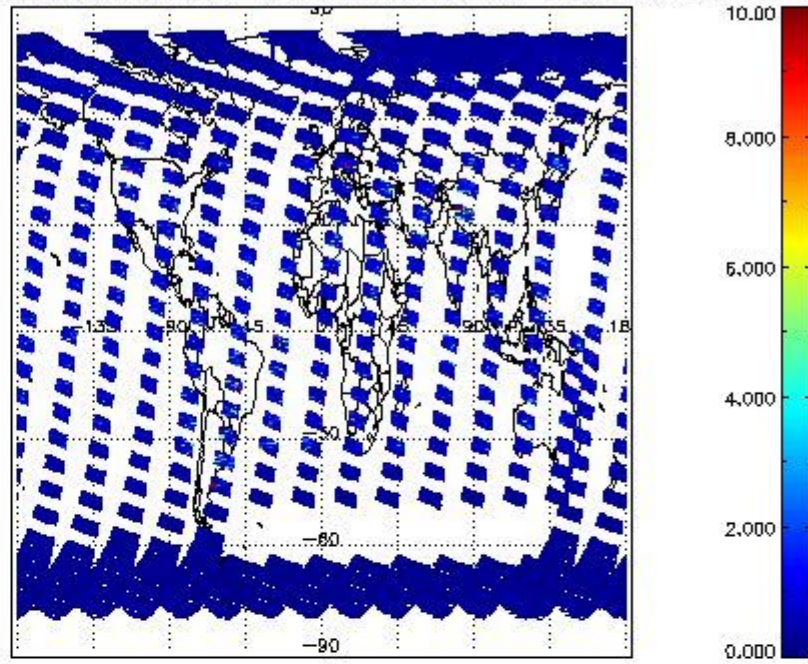




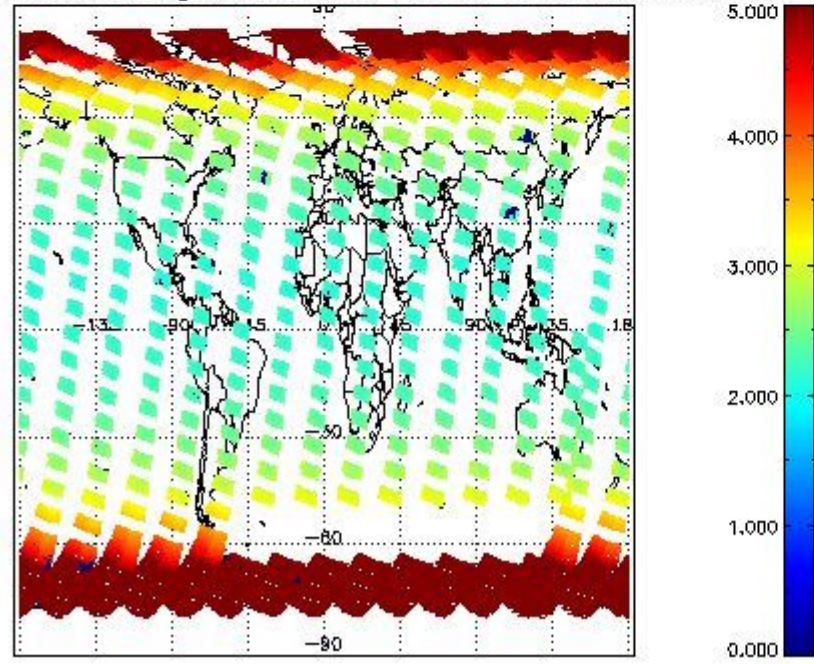
SCIOL2P\_NADUV3BRO\_vcd for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



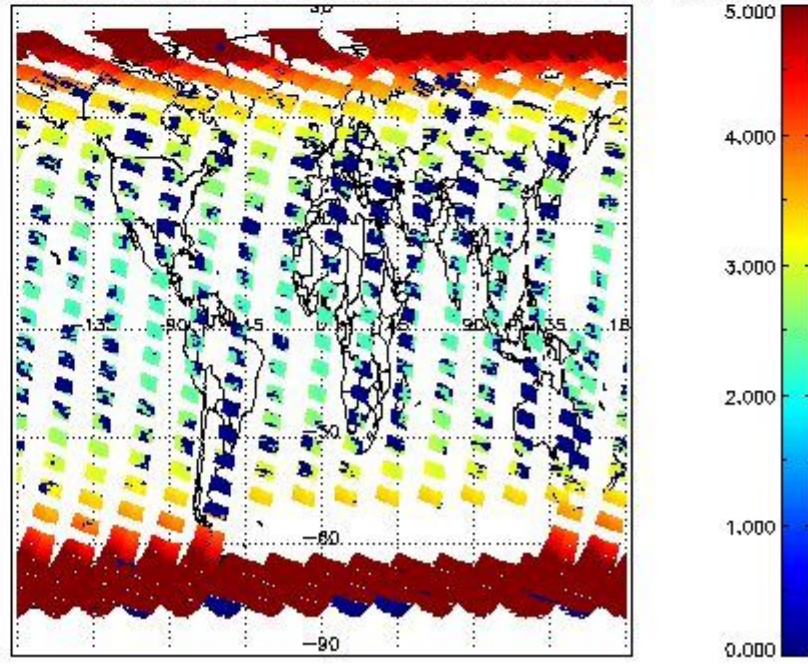
SCIOL2P\_NADUV3BRO\_vcd\_err for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



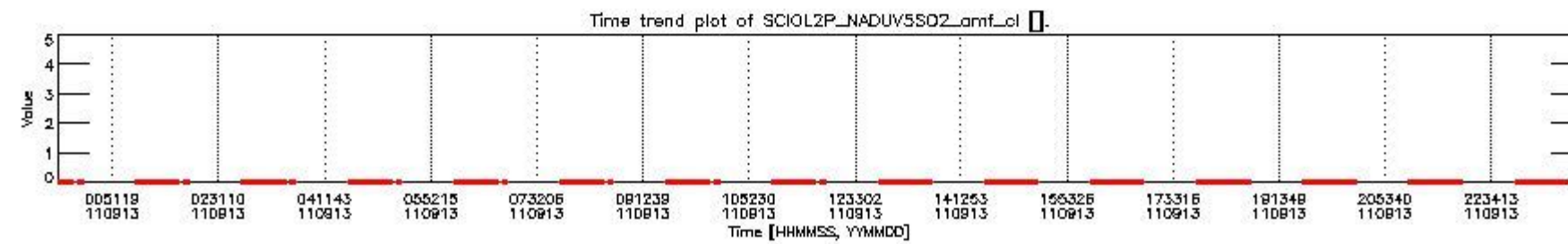
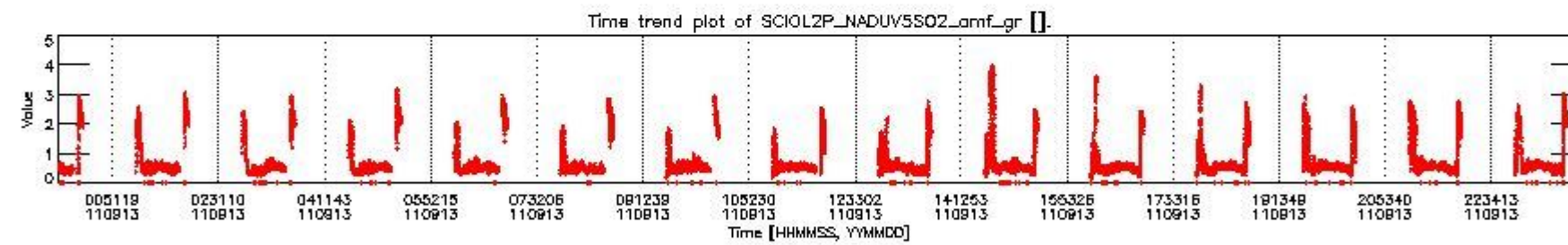
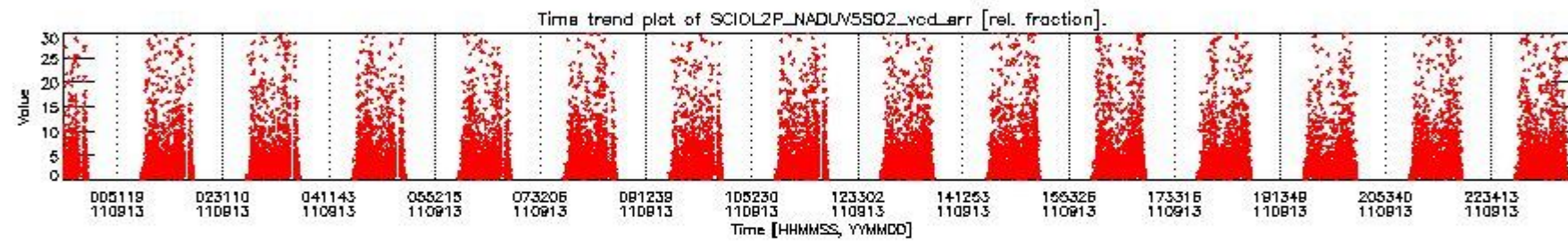
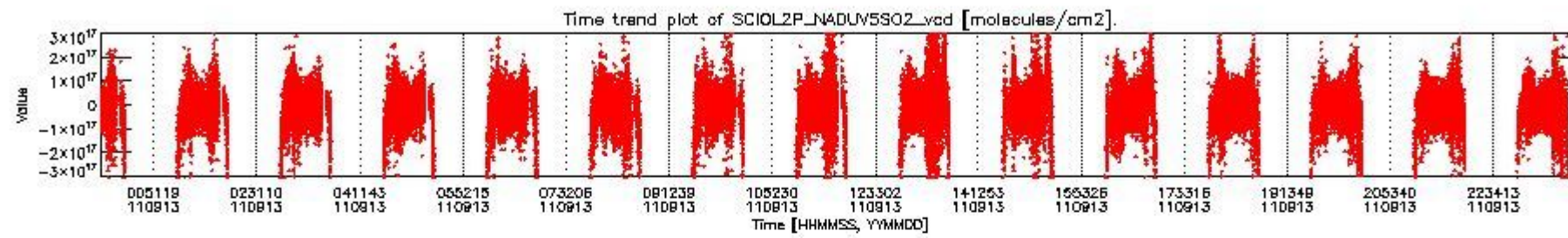
SCIOL2P\_NADUV3BRO\_amf\_gr for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



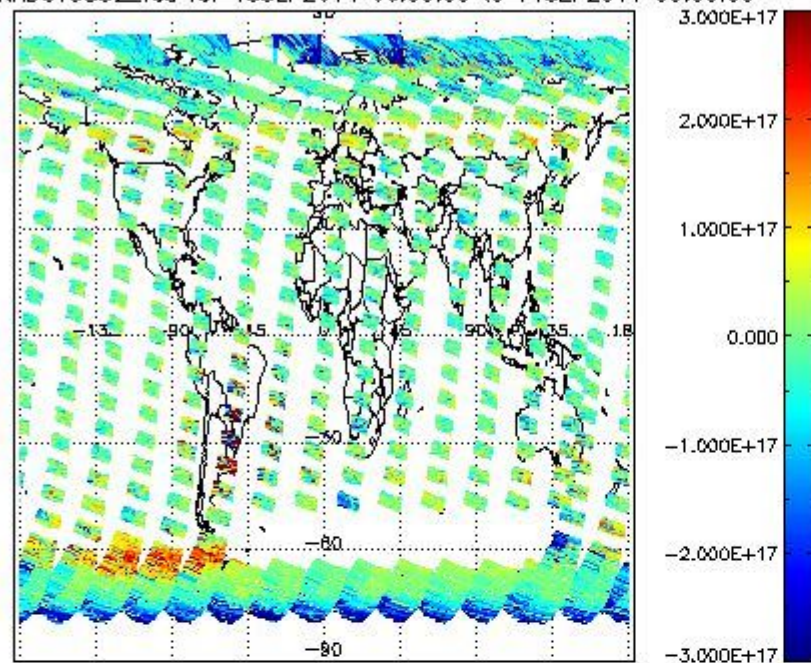
SCIOL2P\_NADUV3BRO\_amf\_cl for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



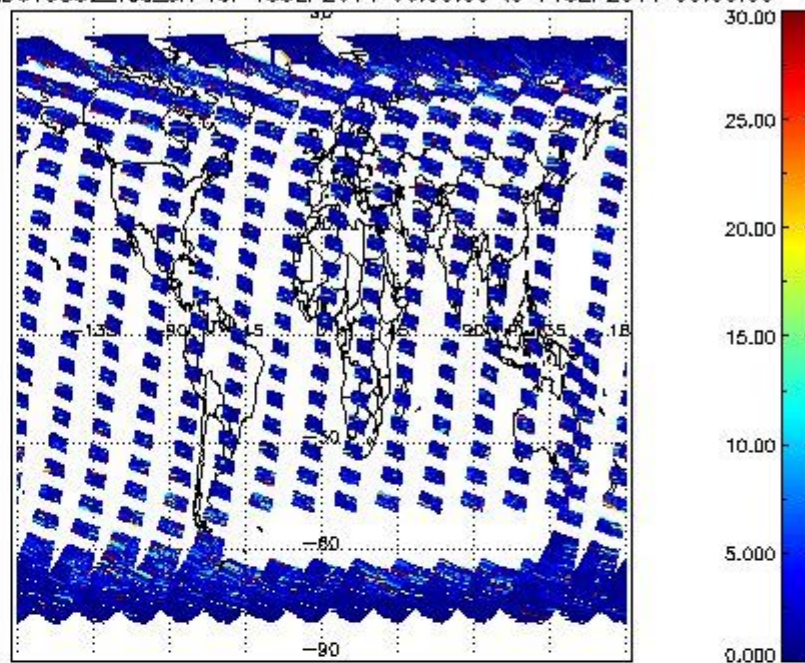
#### 2.2.2.4 SO2 (UV5)



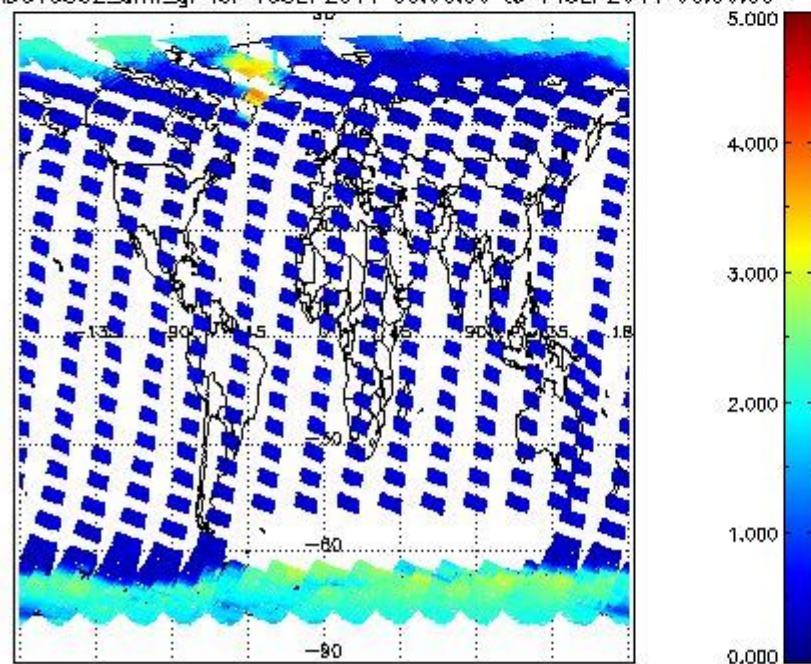
SCIOL2P\_NADUV5S02\_vcd for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



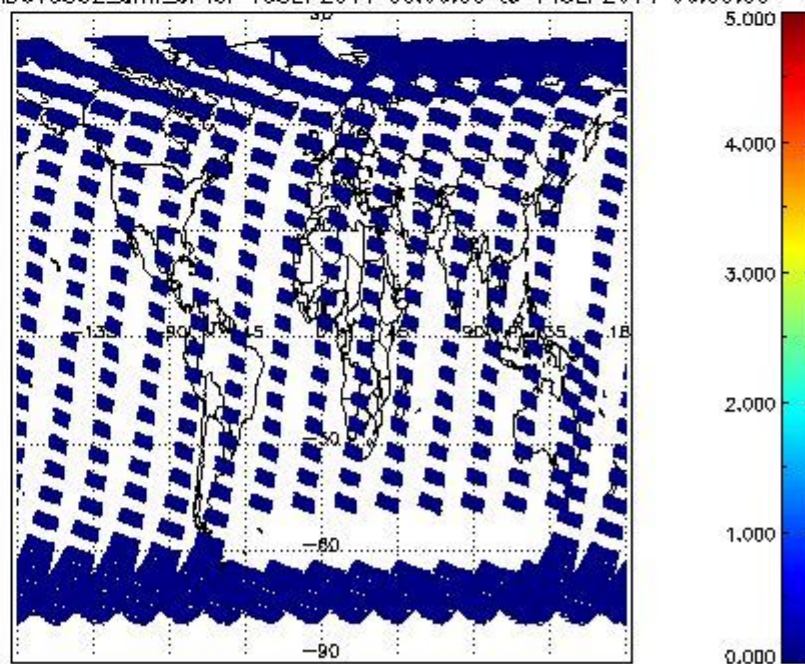
SCIOL2P\_NADUV5S02\_vcd\_err for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



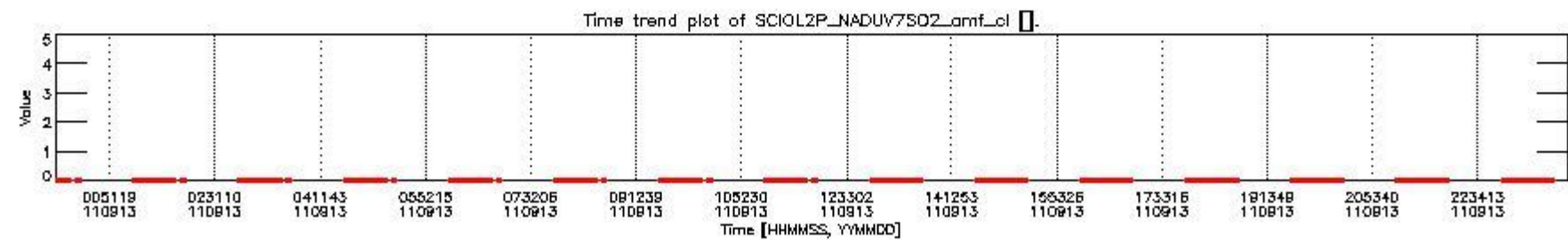
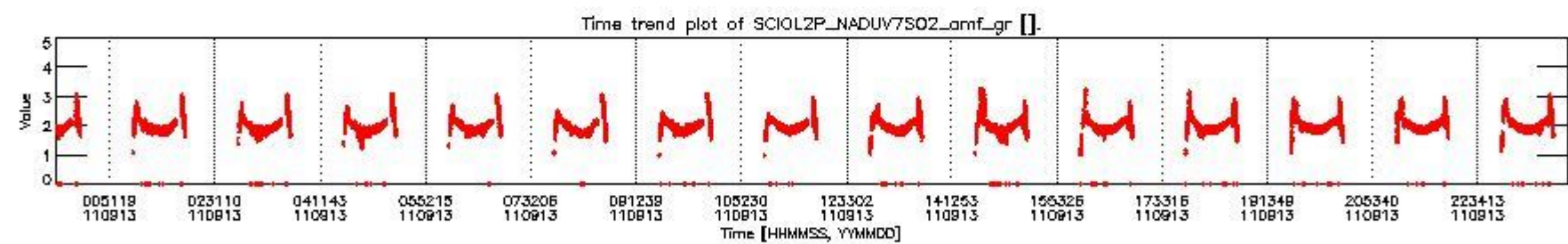
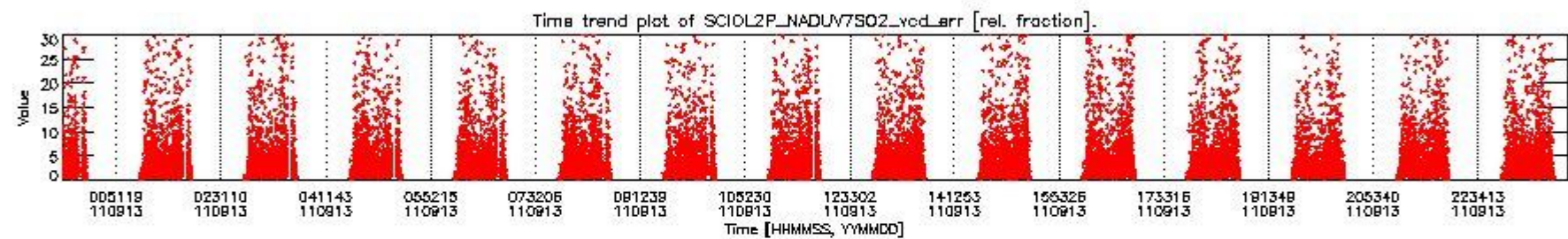
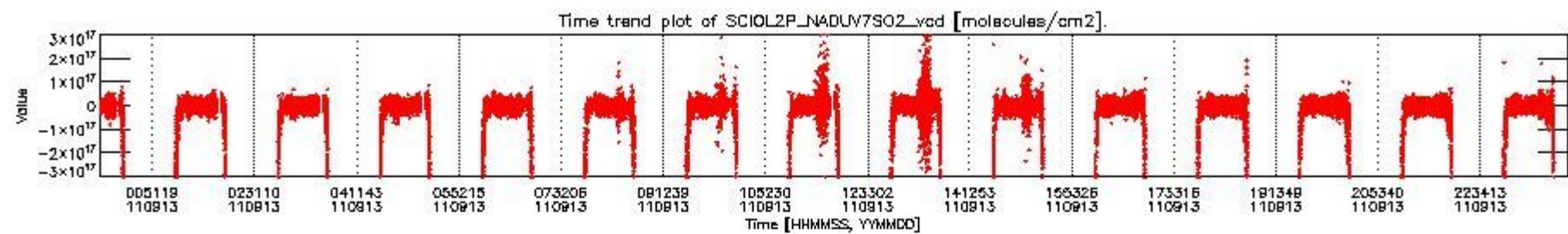
SCIOL2P\_NADUV5S02\_amf\_gr for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



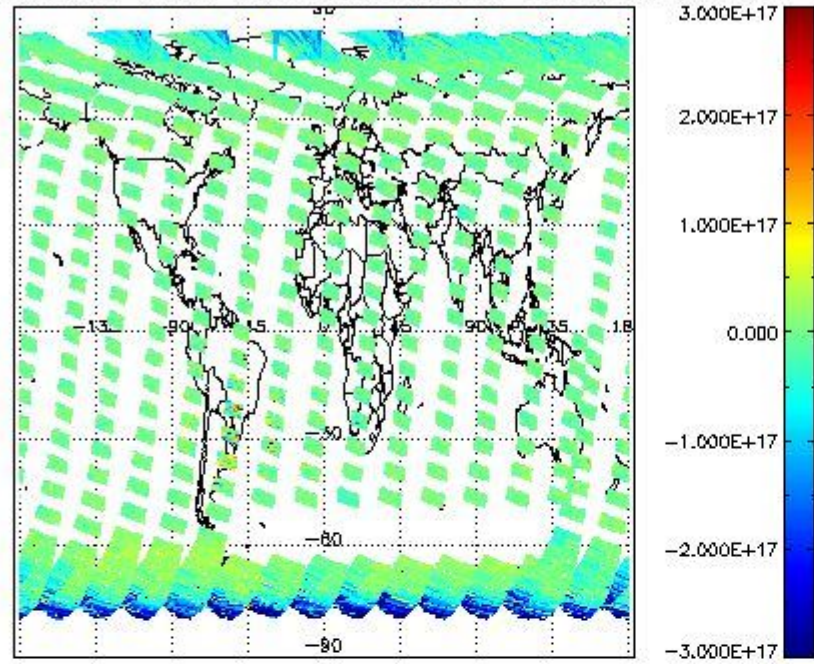
SCIOL2P\_NADUV5S02\_amf\_cl for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



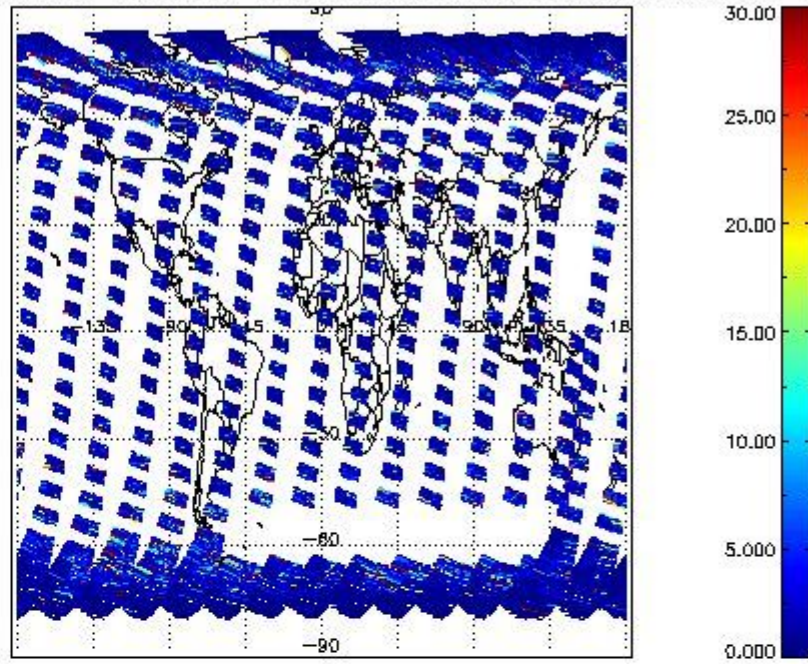
2.2.2.5 SO2 (UV7)



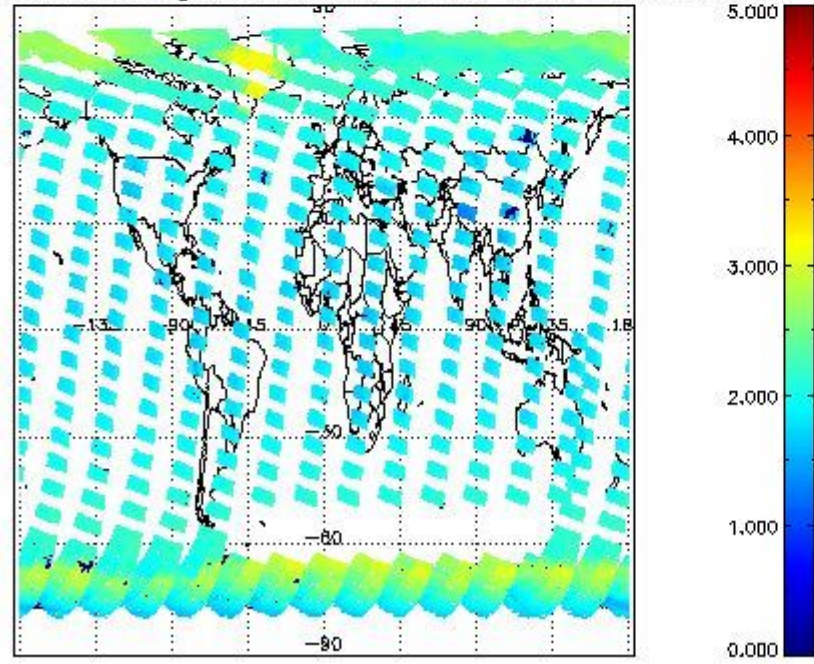
SCIOL2P\_NADUV7S02\_vcd for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



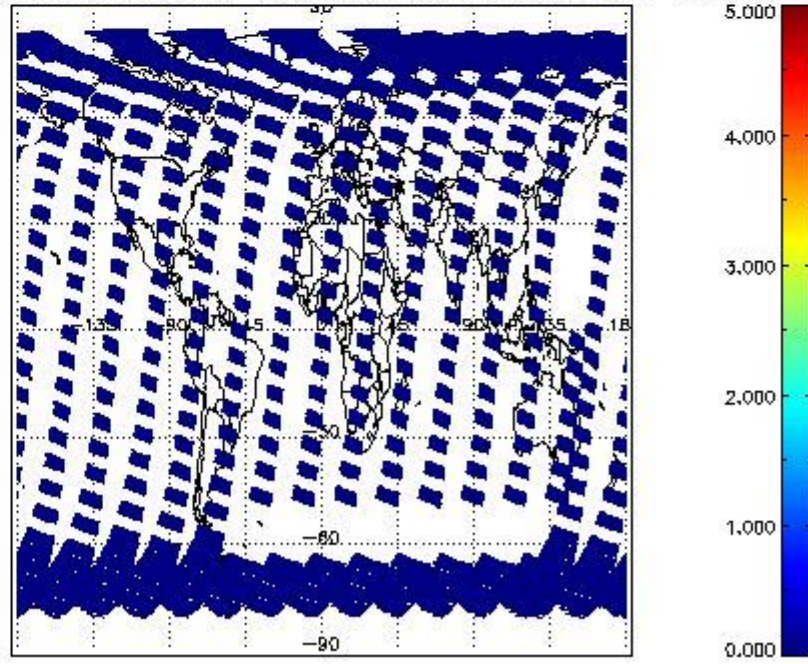
SCIOL2P\_NADUV7S02\_vcd\_err for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



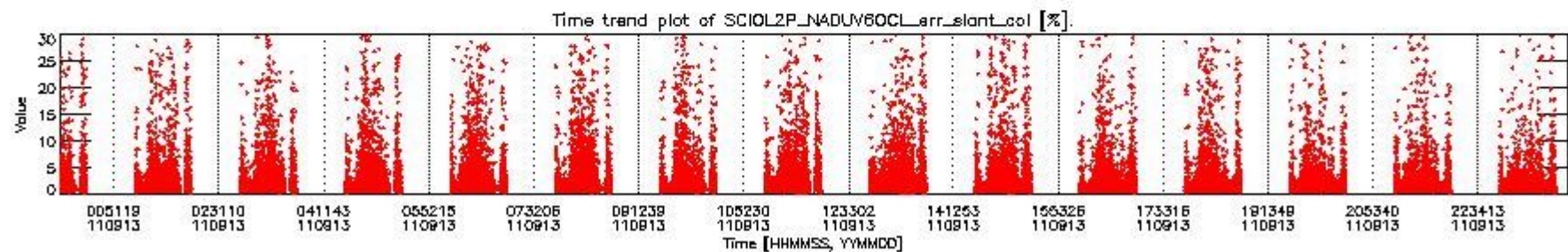
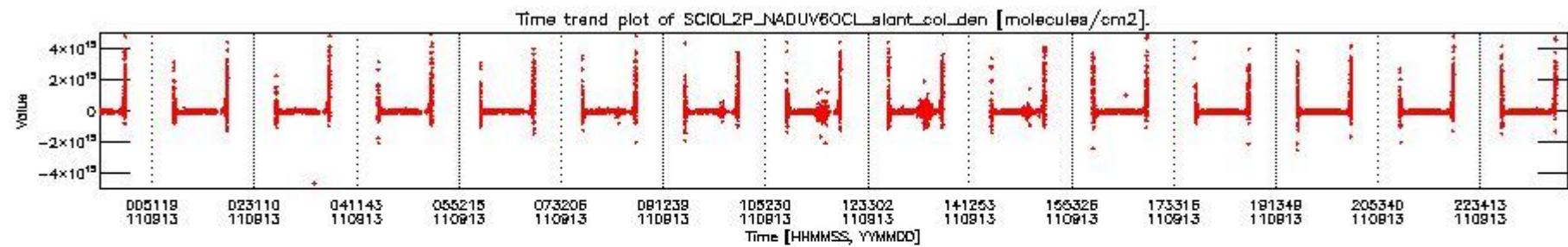
SCIOL2P\_NADUV7S02\_amf\_gr for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



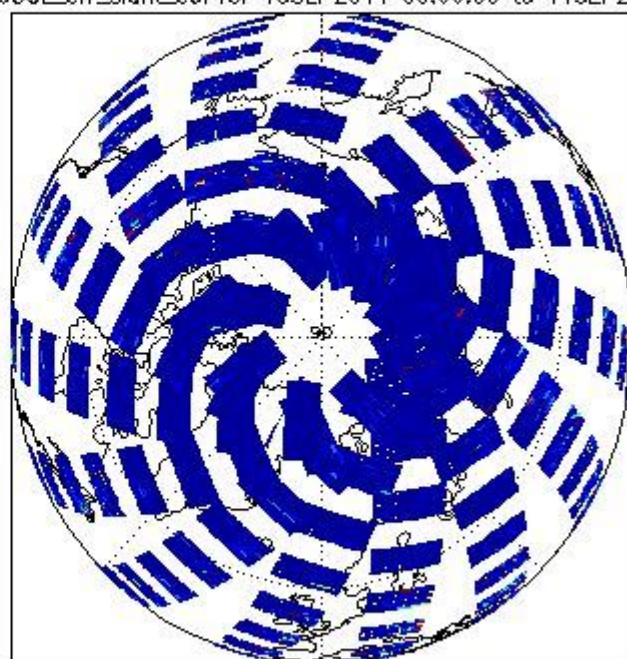
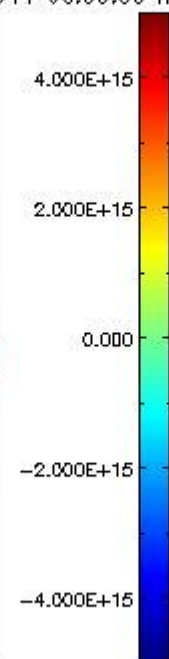
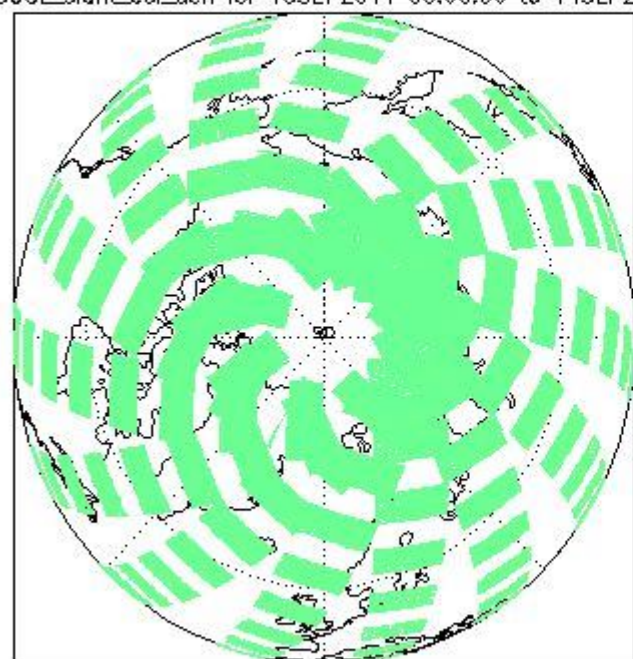
SCIOL2P\_NADUV7S02\_amf\_cl for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



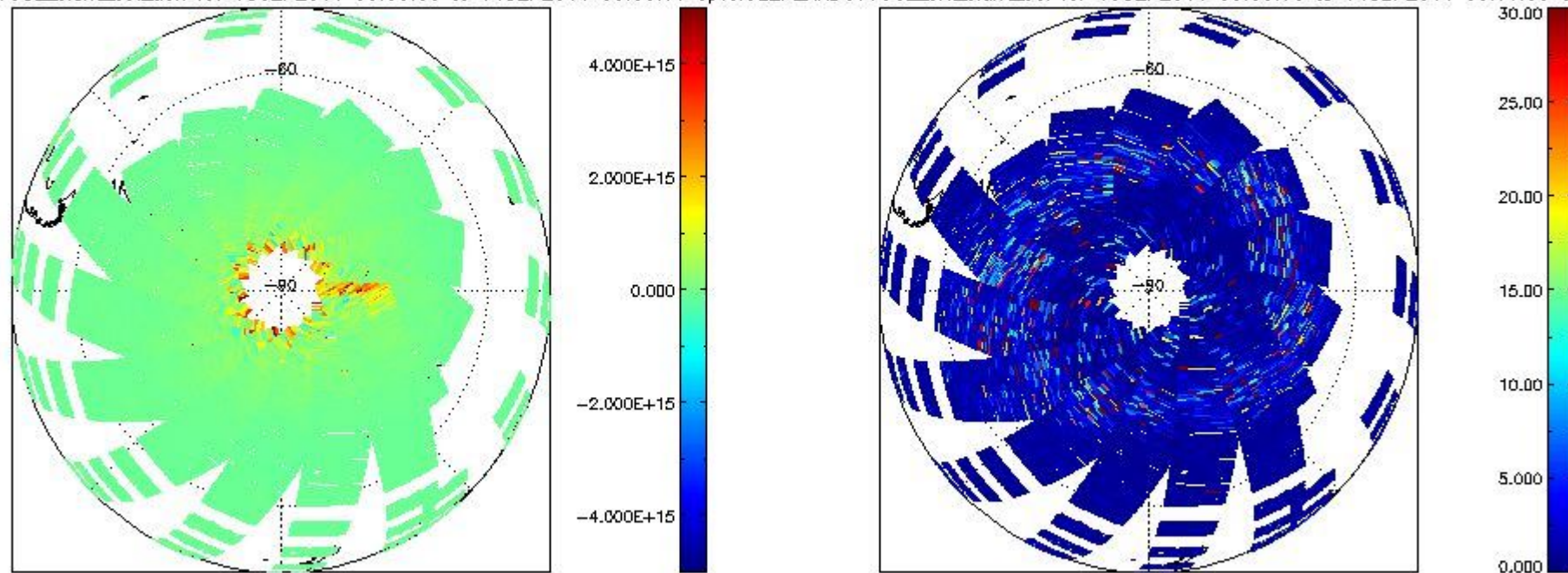
### 2.2.2.6 OCIO (UV6)



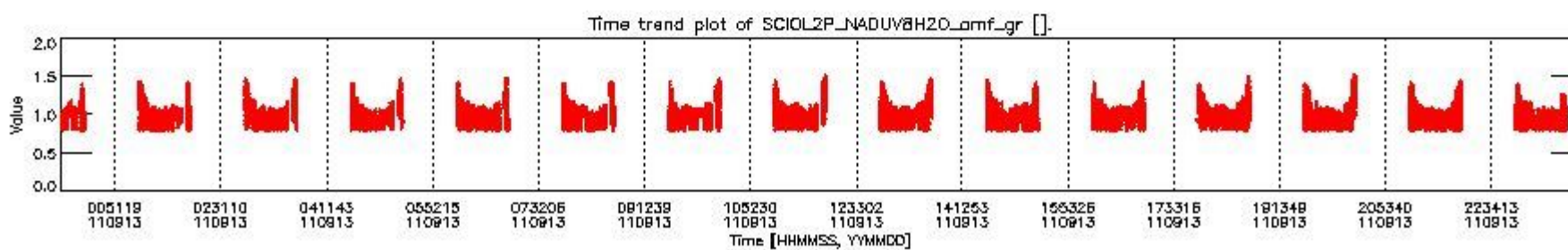
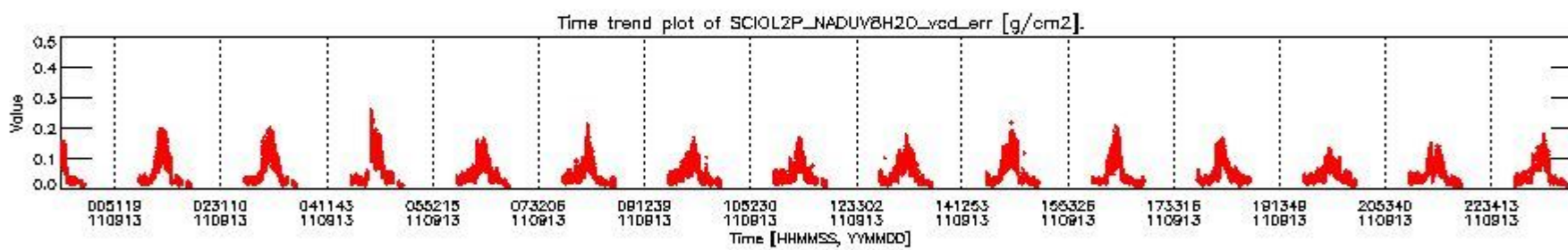
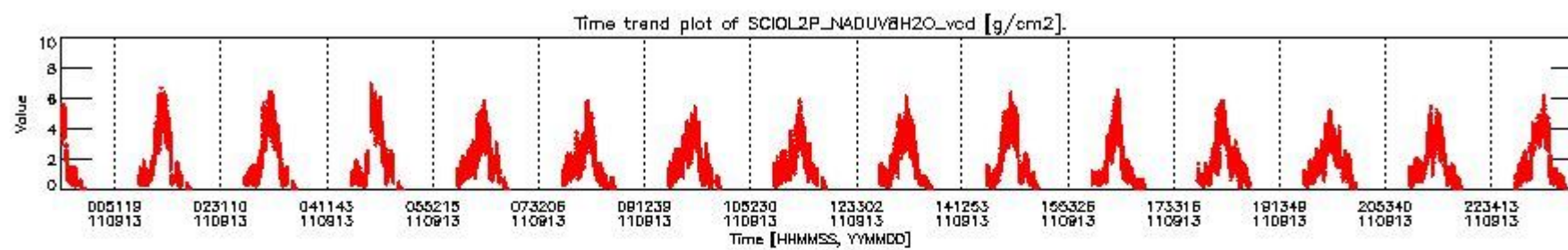
CIOL2P\_NADUV6OCL\_slant\_col\_den for 13SEP2011 00:00:00 to 14SEP2011 00:00:00 np; CIOL2P\_NADUV6OCL\_err\_slant\_col for 13SEP2011 00:00:00 to 14SEP2011 00:00:00 np



CIOL2P\_NADUV60CL\_slant\_col\_den for 13SEP2011 00:00:00 to 14SEP2011 00:00:00 sp CIOL2P\_NADUV60CL\_err\_slant\_col for 13SEP2011 00:00:00 to 14SEP2011 00:00:00 sp

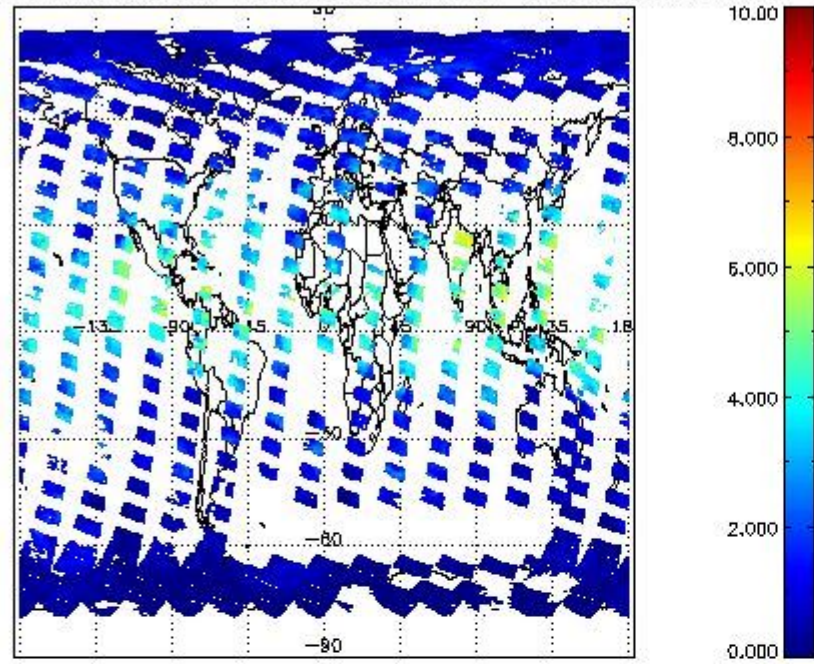


### 2.2.2.7 H2O (UV8)

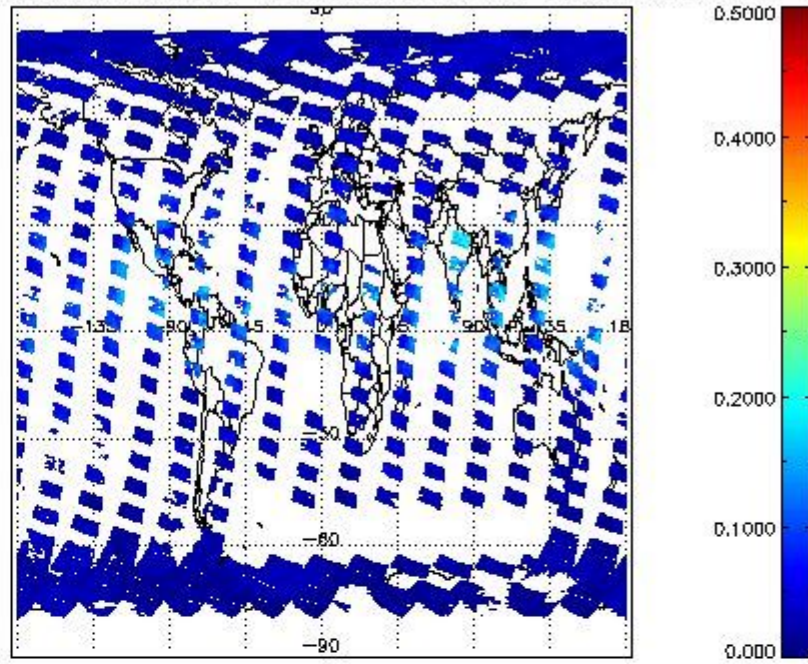




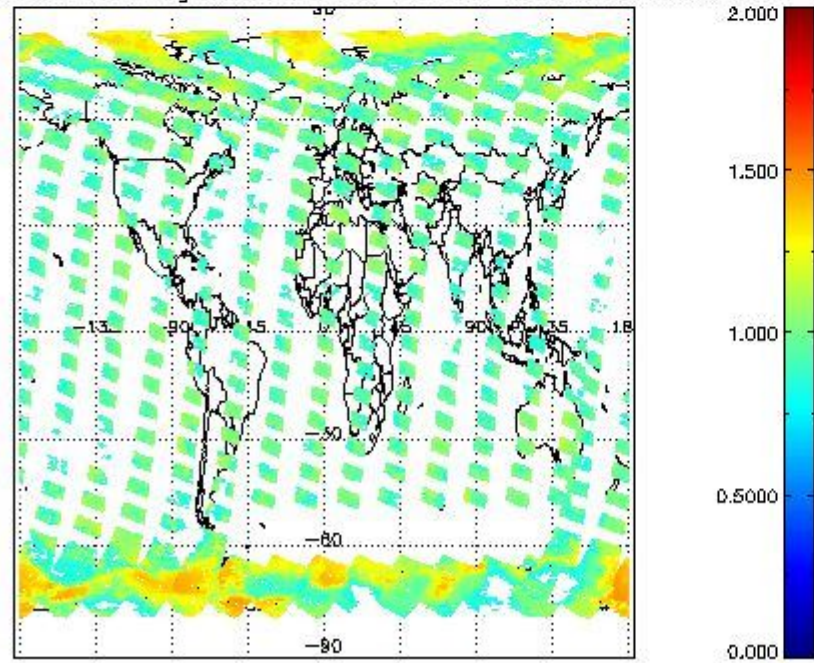
SCIOL2P\_NADUV8H2O\_vcd for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



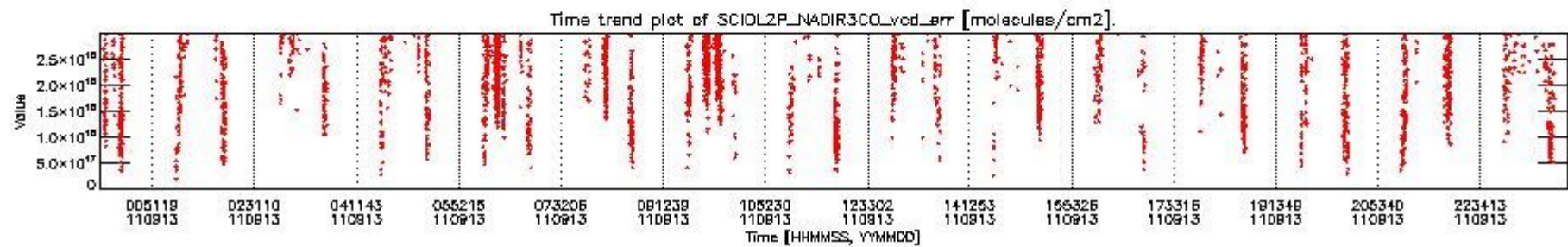
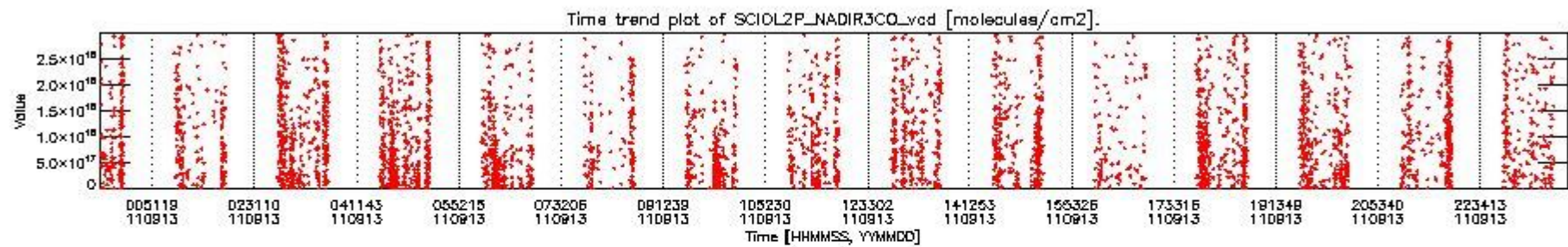
SCIOL2P\_NADUV8H2O\_vcd\_err for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



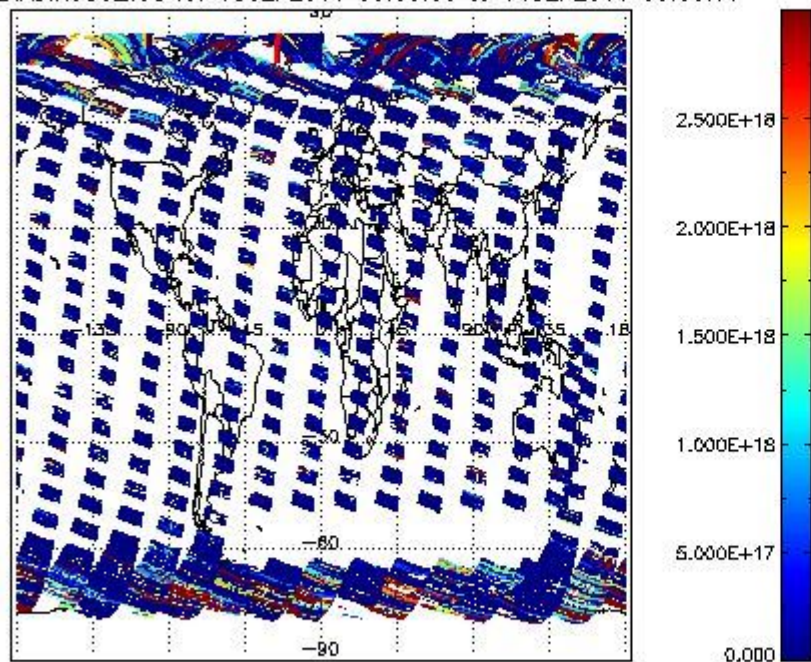
SCIOL2P\_NADUV8H2O\_arnf\_gr for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



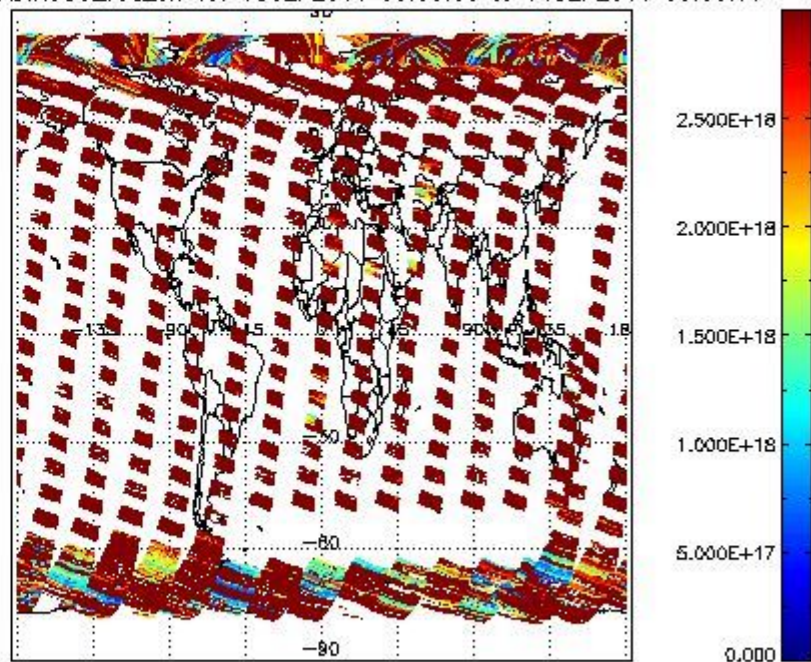
2.2.2.8 CO (IR3)



SCIO2P\_NADIR3CO\_vcd for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



SCIO2P\_NADIR3CO\_vcd\_err for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



### 2.2.3 Limb

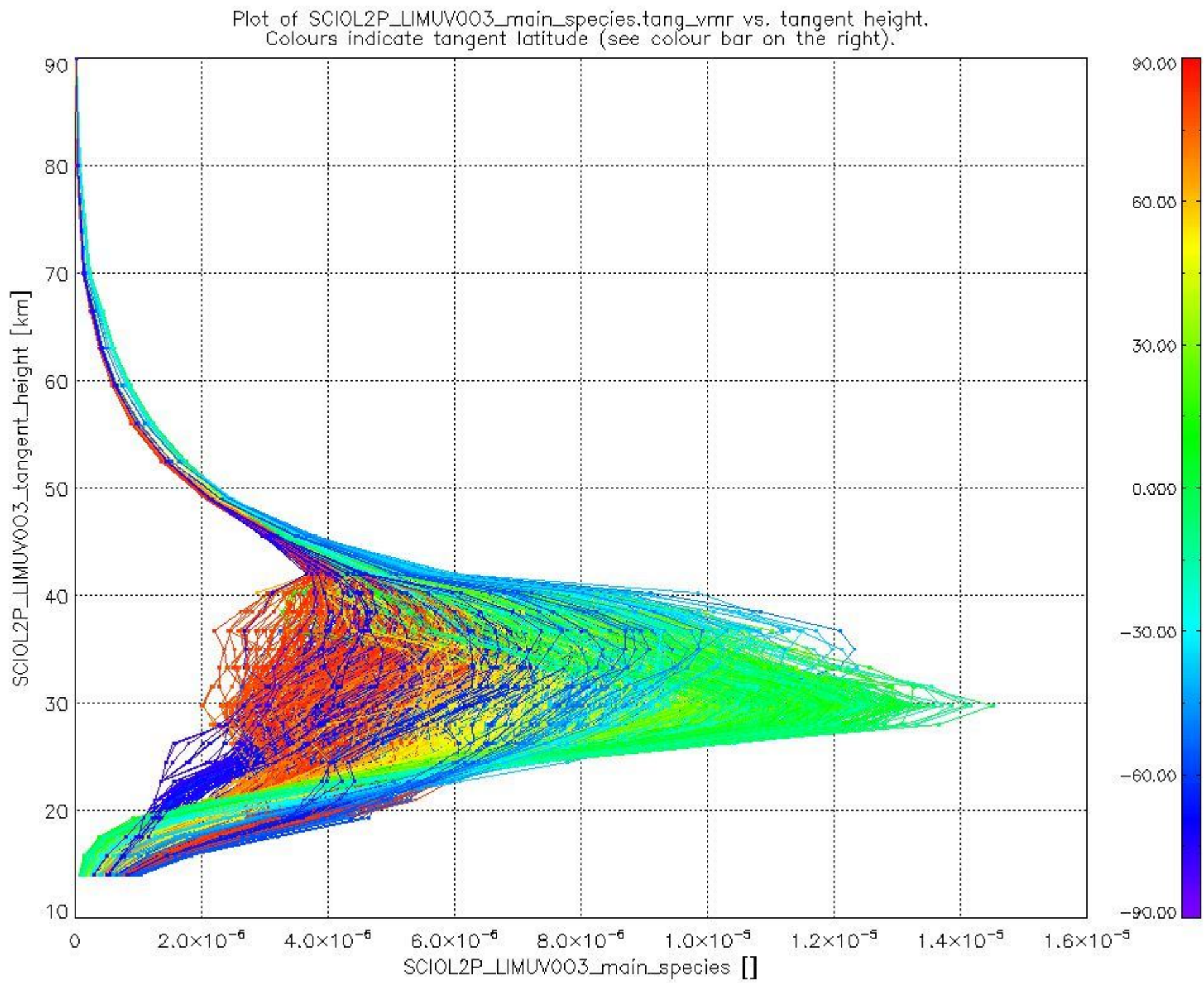
This section shows information about product quality of the limb retrievals, in particular the quality of retrieved species.

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 |

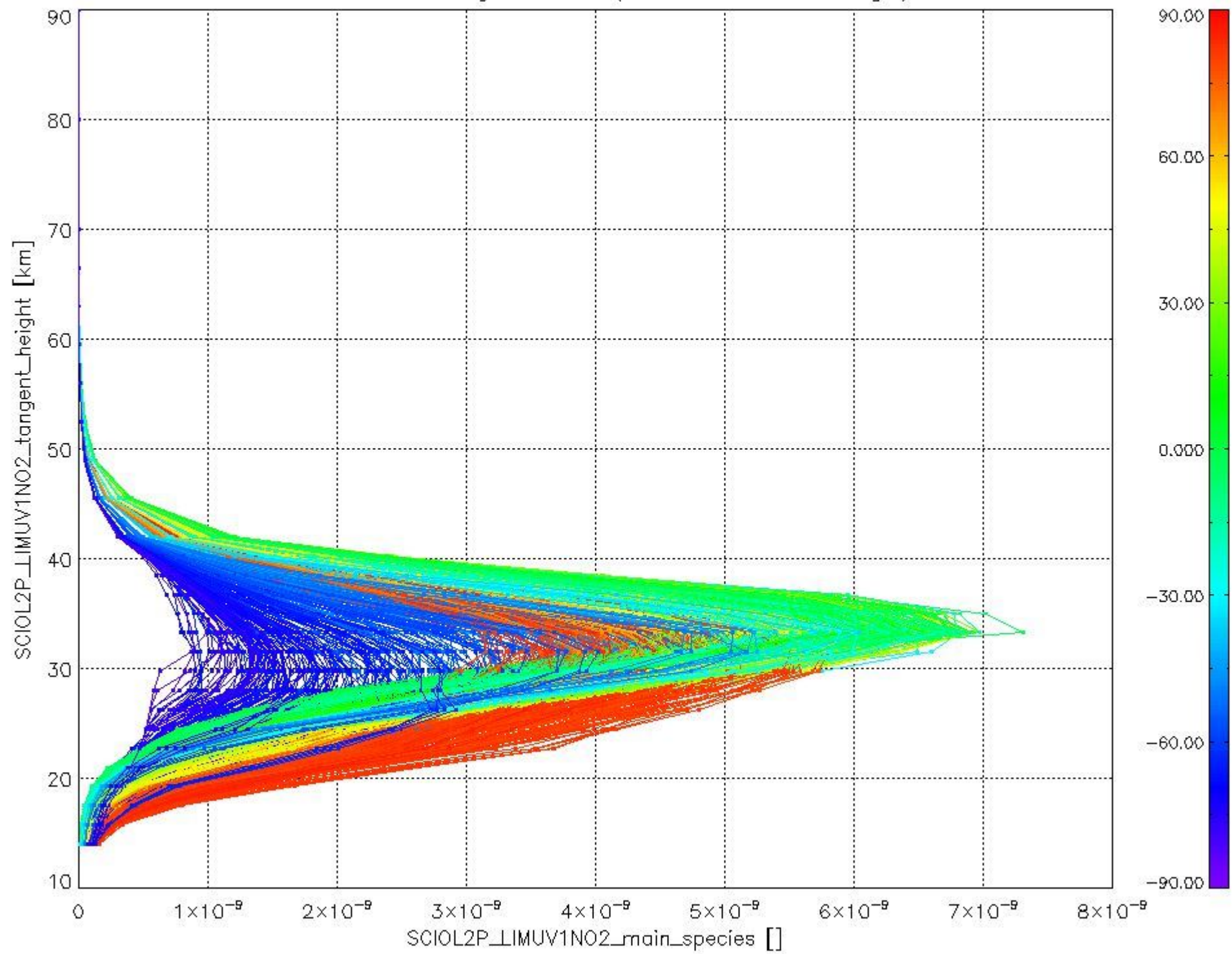
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

2.2.3.1 O3 (UV0)



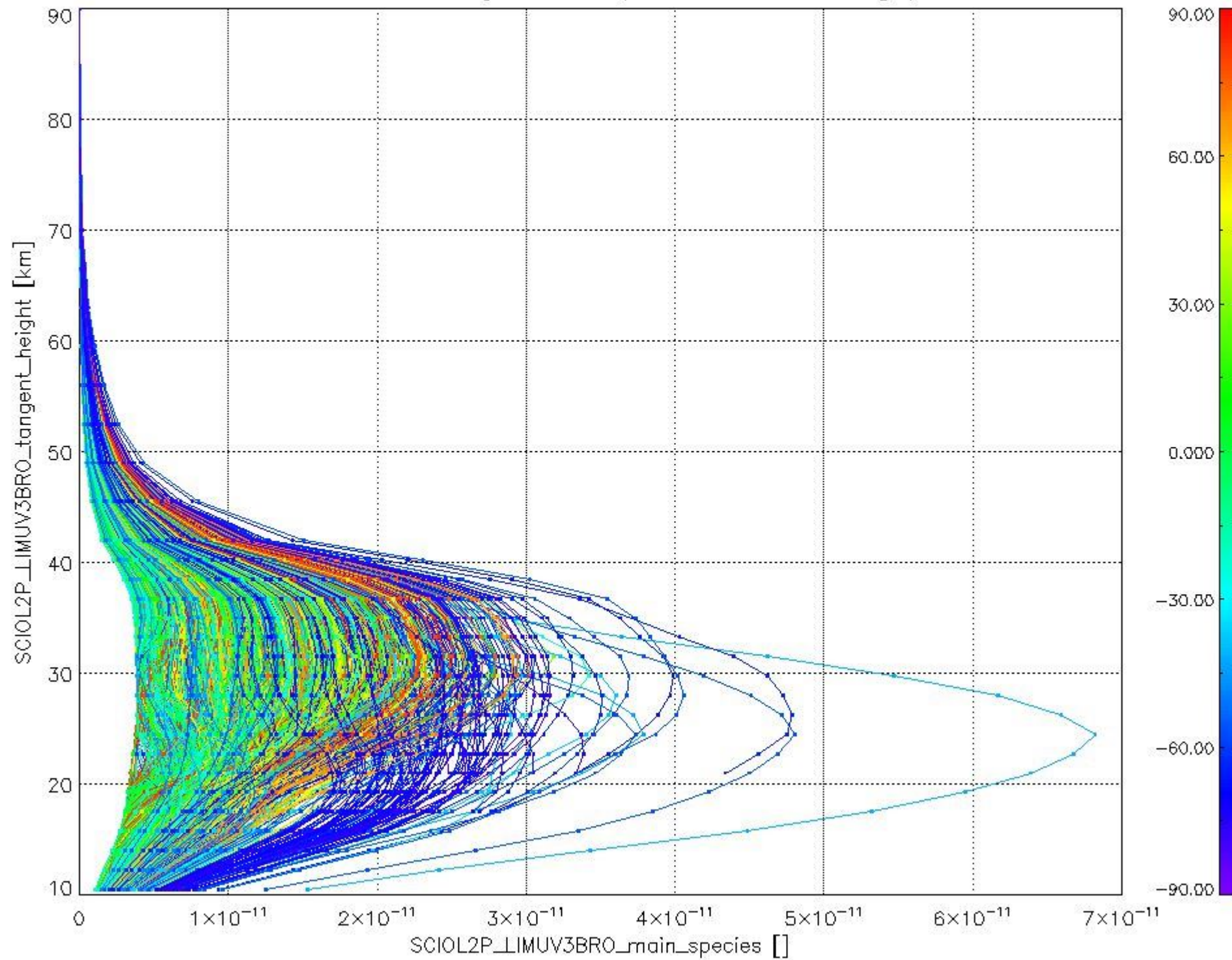
2.2.3.2 NO2 (UV1)

Plot of SCIO2P\_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).

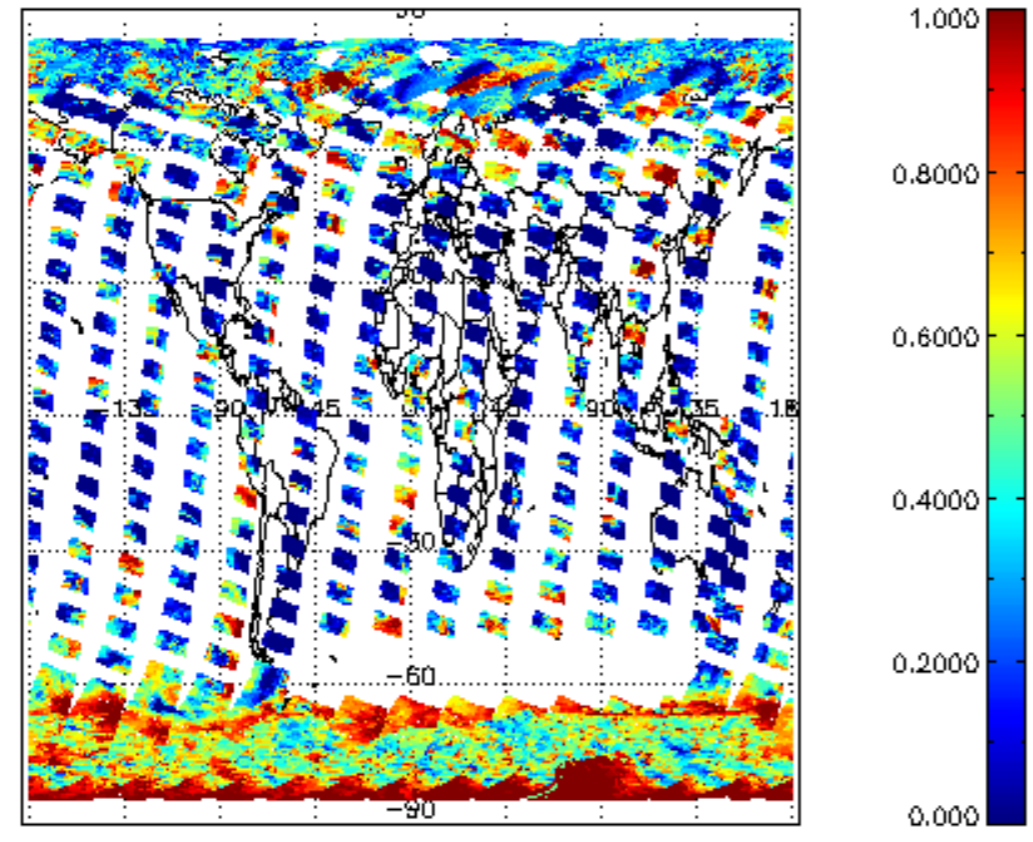


### 2.3 ADF monitoring

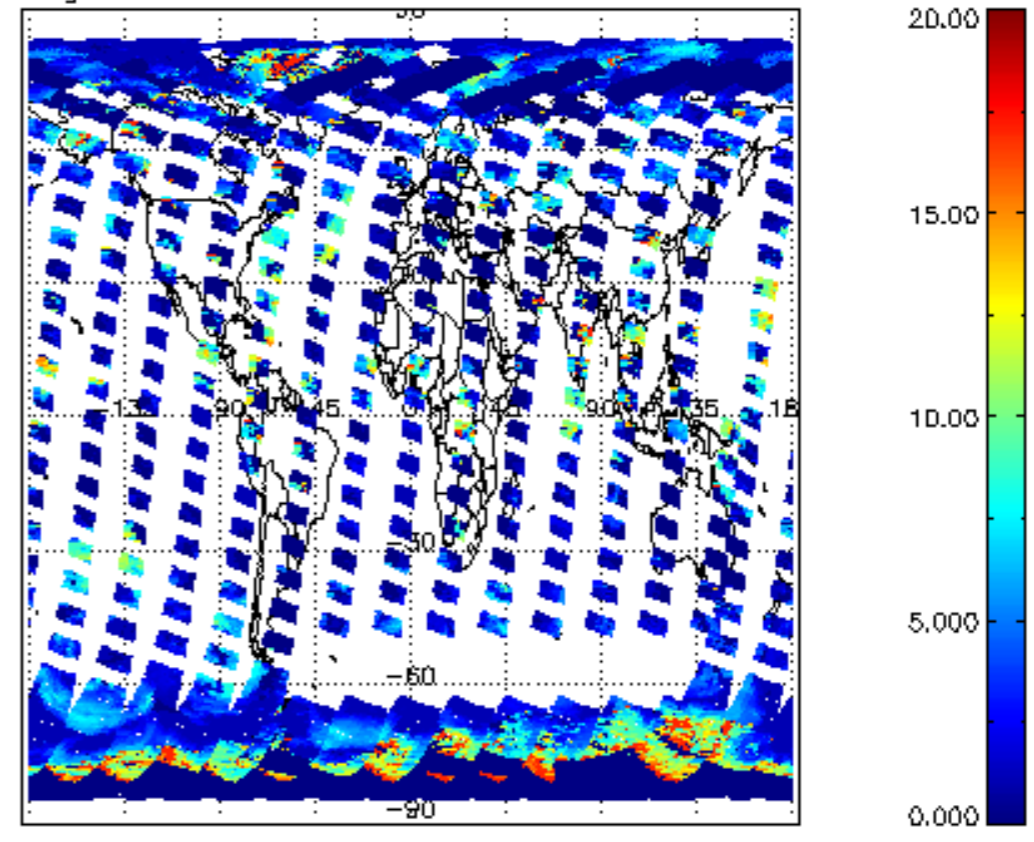
| Number | ADF   |
|--------|---|
|        | <b>IN_ (INITIALISATION_FILE)</b>                              |
| 0      | SCI_IN_AXNPDE20090615_120000_20090615_000000_20991231_235959  |
|        | <b>ECF (ECMWF_FILE)</b>                                       |
| 1      | NOT USED  |
|        | <b>MF1 (M_FACTOR_FILE)</b>                                    |
| 2      | SCI_MF1_AXVIEC20110913_144941_20110912_193408_20110914_193408 |
| 3      | SCI_MF1_AXVIEC20110920_110129_20110913_185723_20110915_185723 |



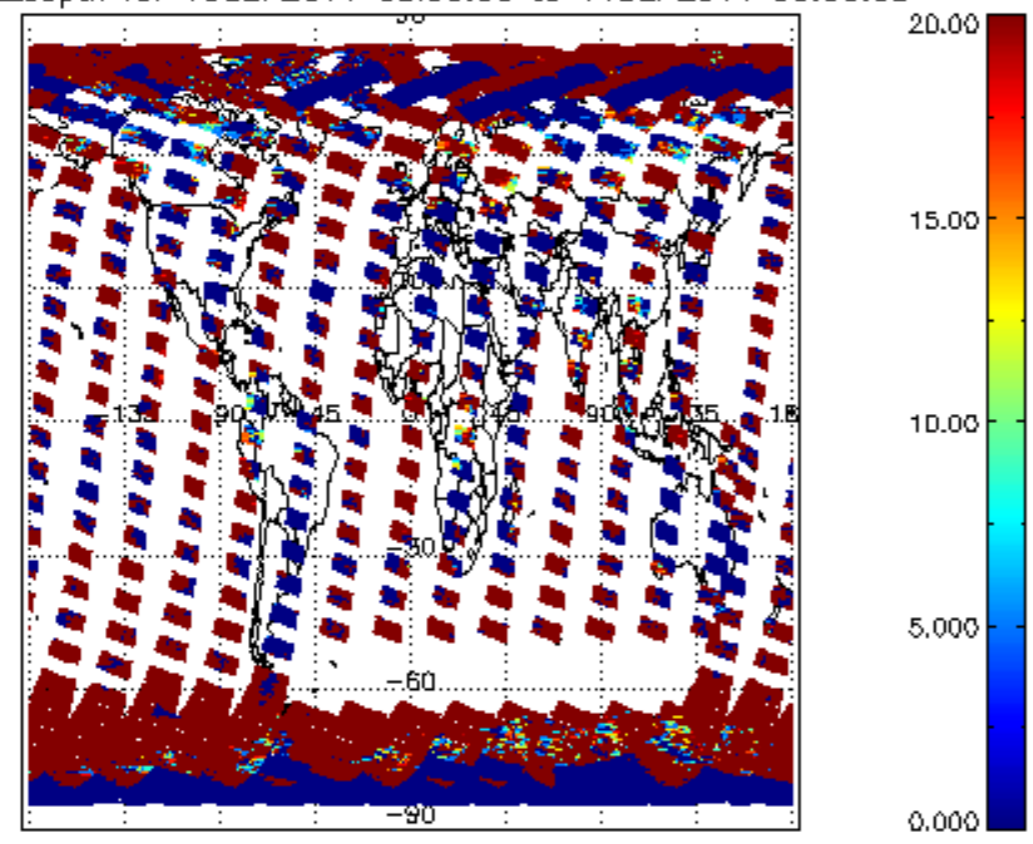
cL\_frac for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



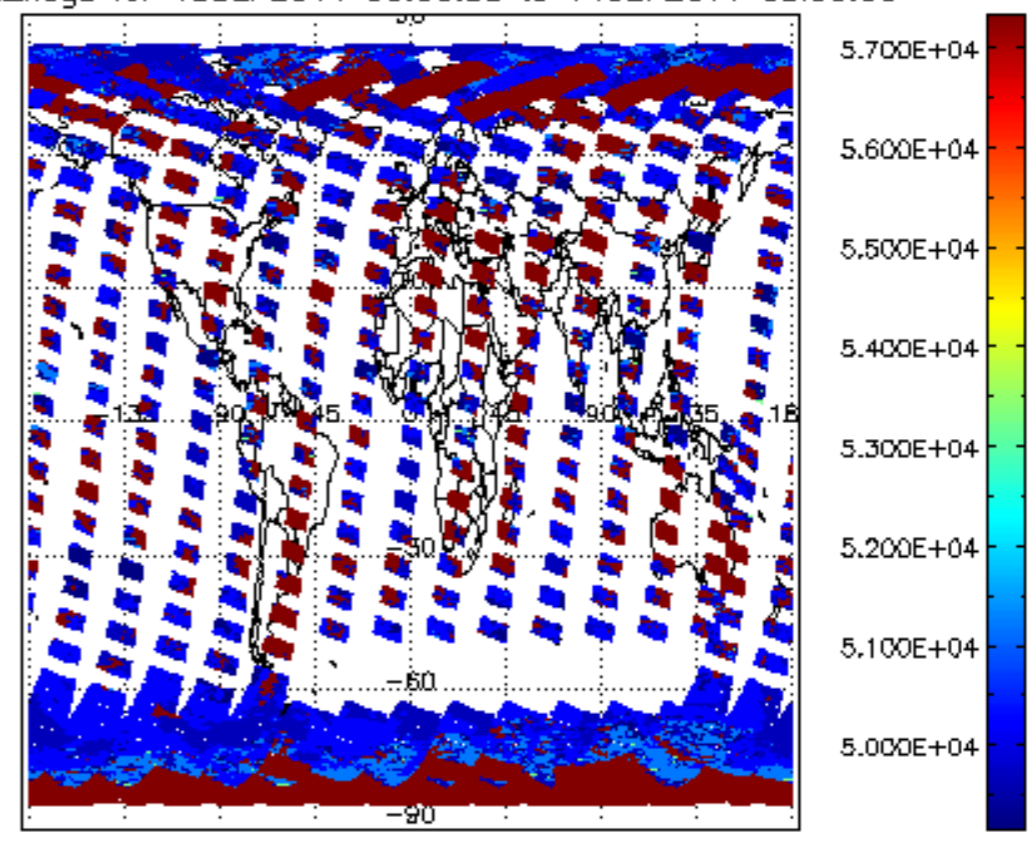
cL\_top\_height for 13SEP2011 00:00:00 to 14SEP2011 00:00:00

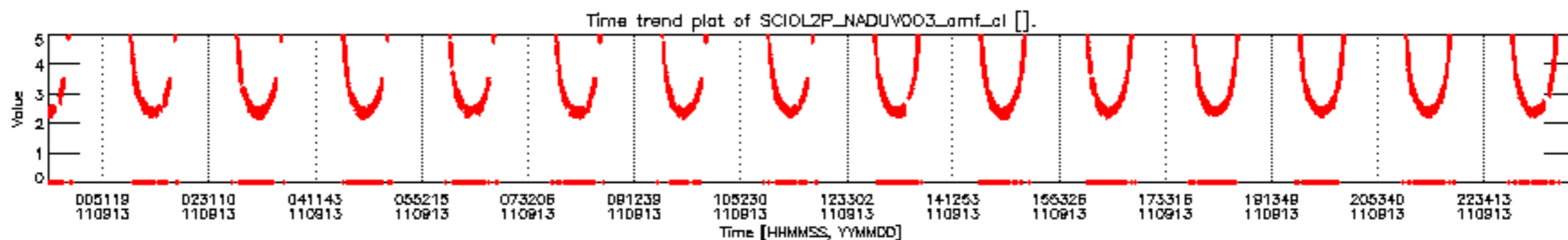
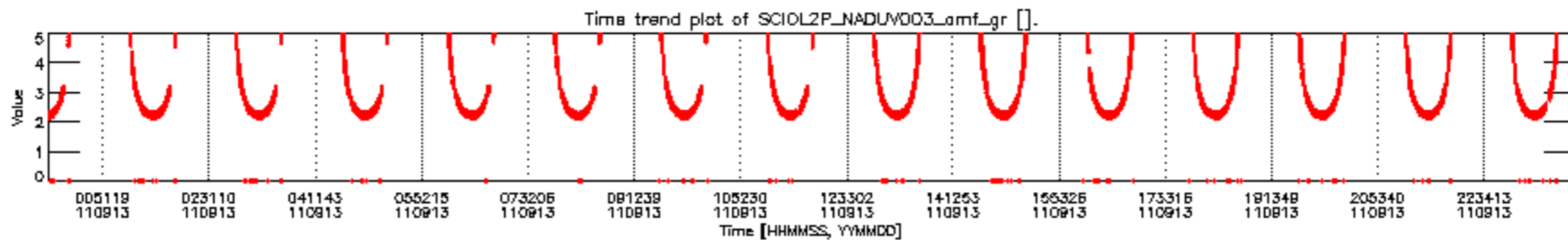
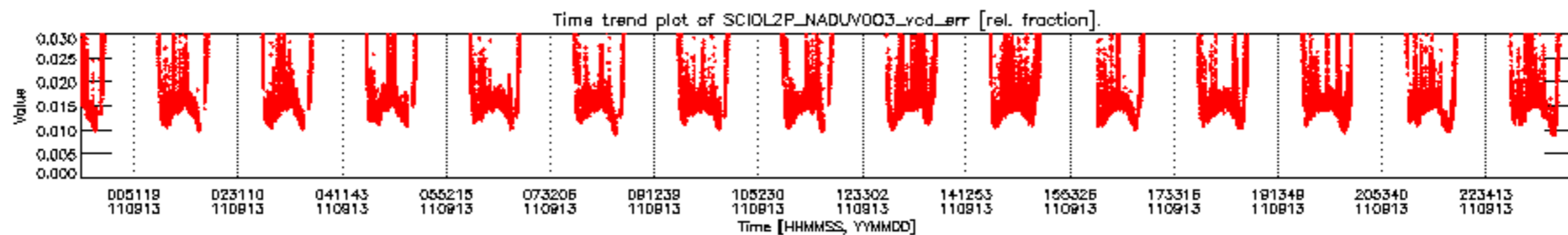
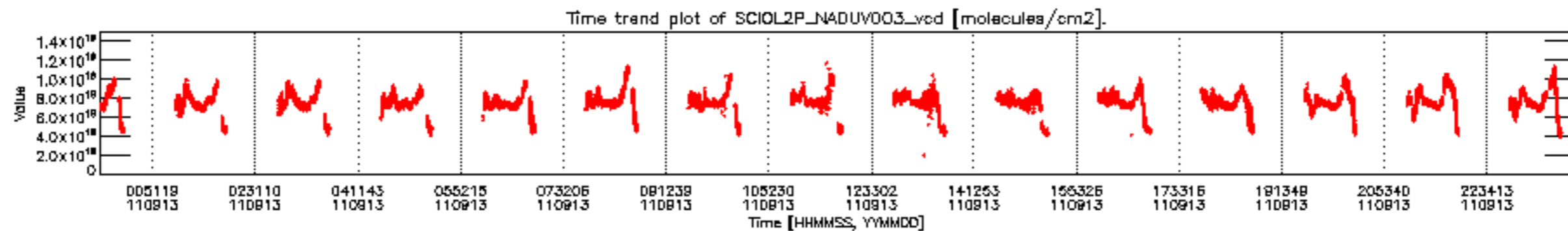


cL\_opt\_depth for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



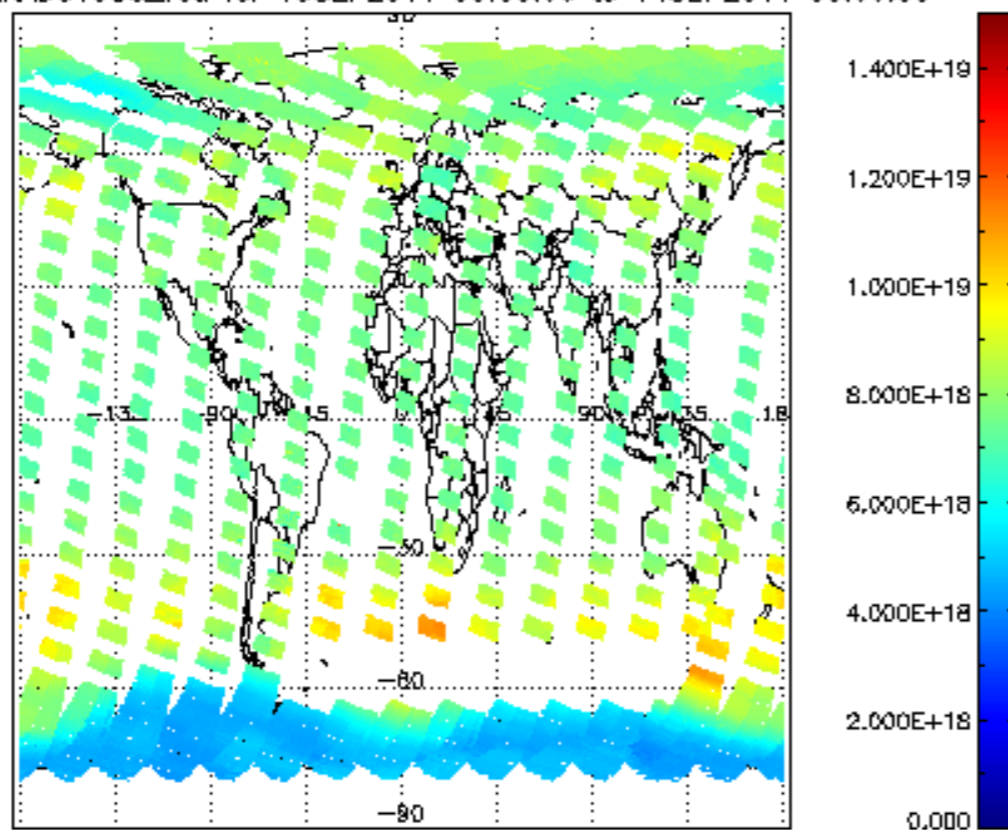
cloud\_flags for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



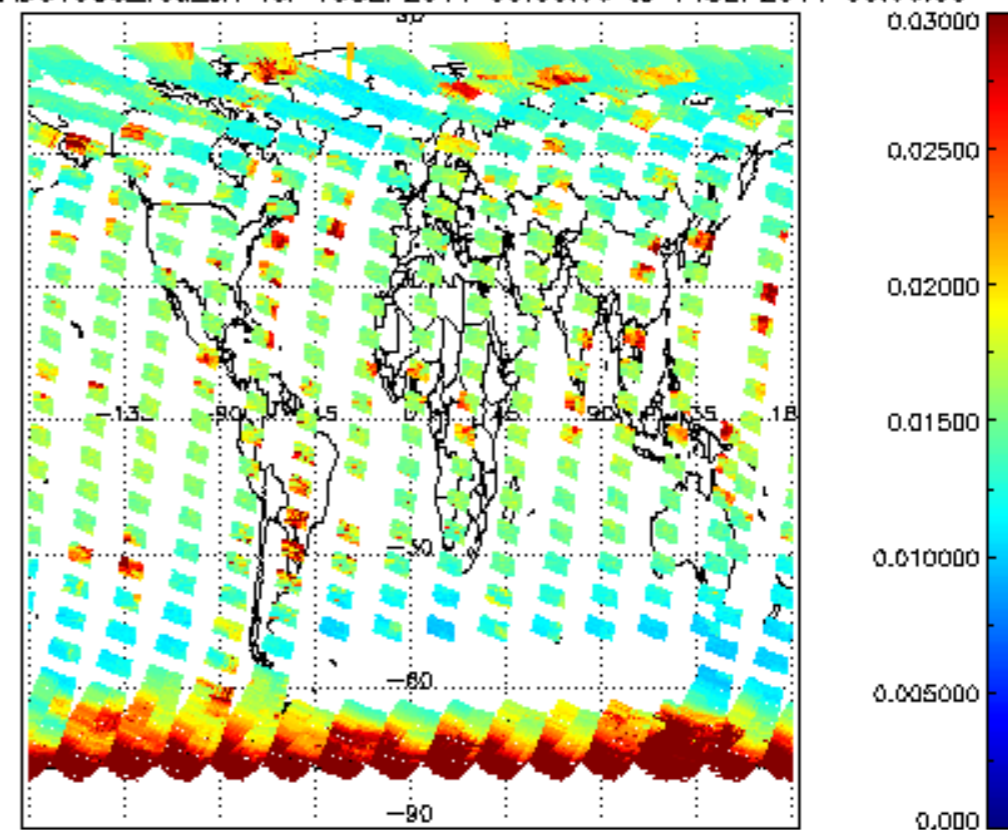




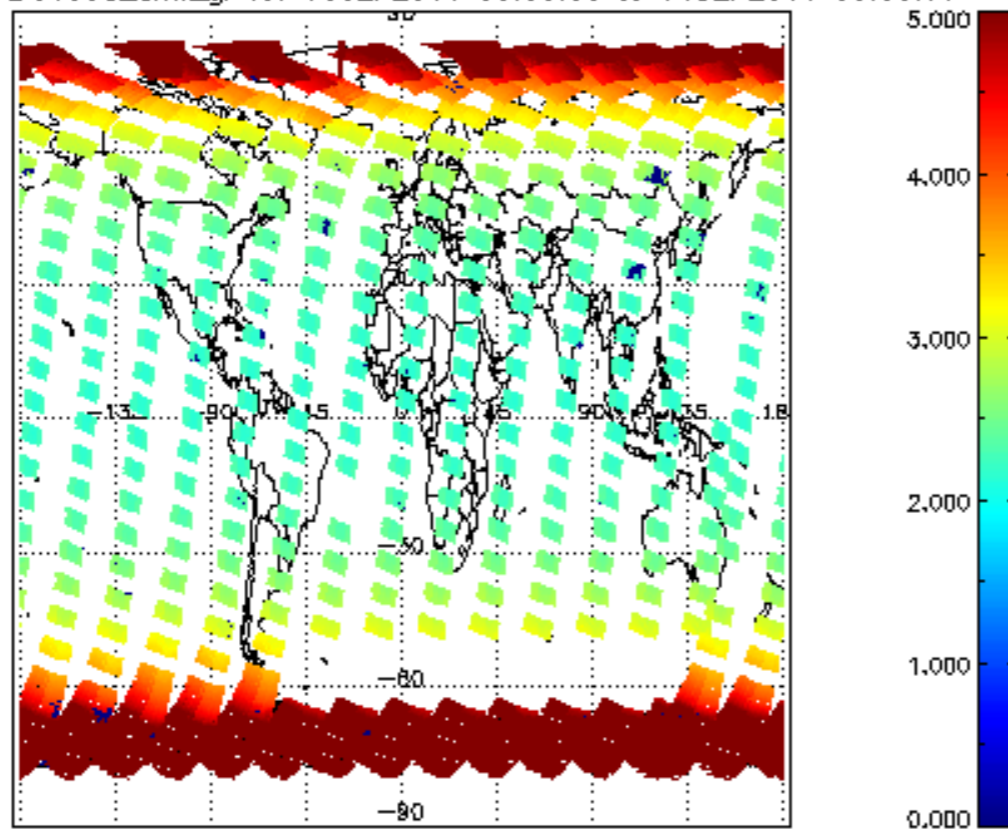
SCIOL2P\_NADUV003\_vcd for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



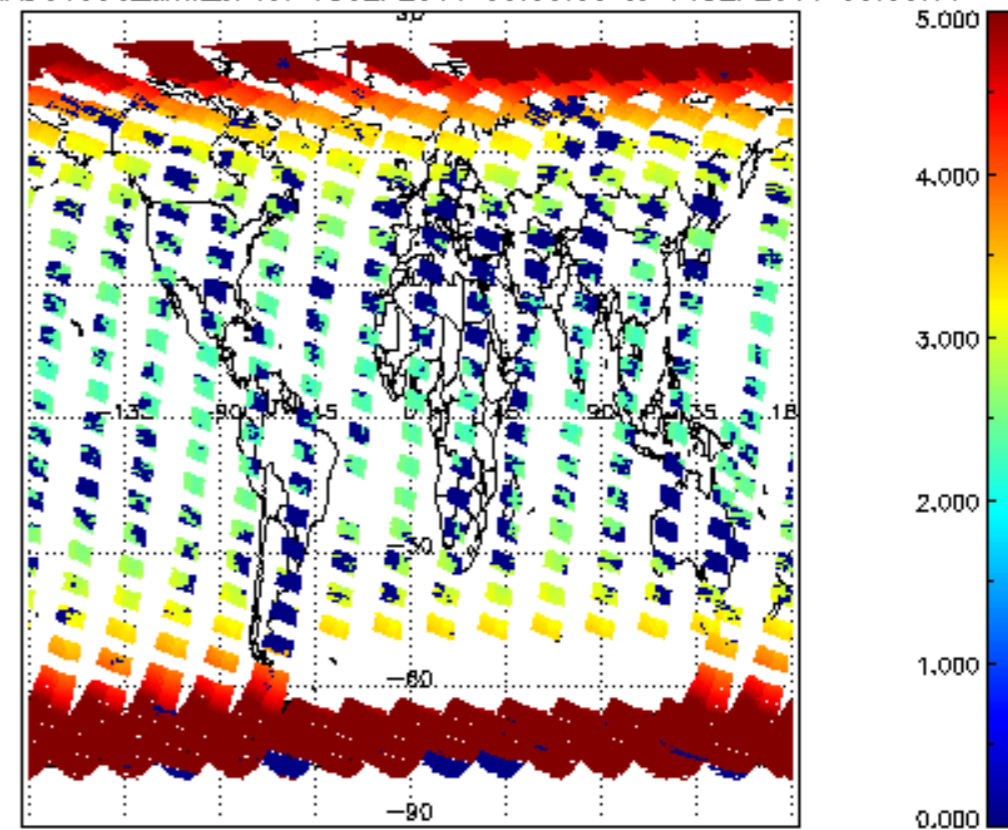
SCIOL2P\_NADUV003\_vcd\_err for 13SEP2011 00:00:00 to 14SEP2011 00:00:00

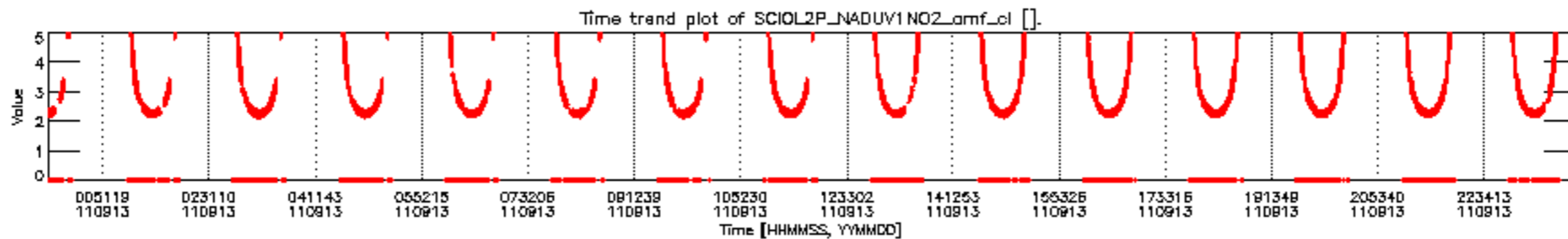
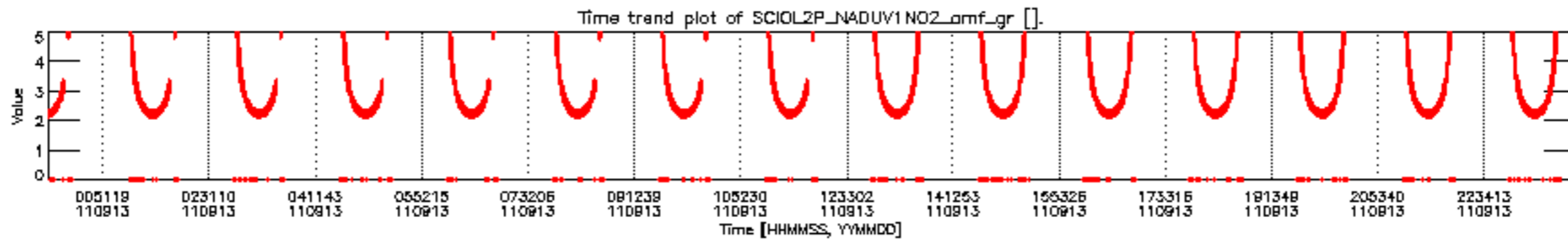
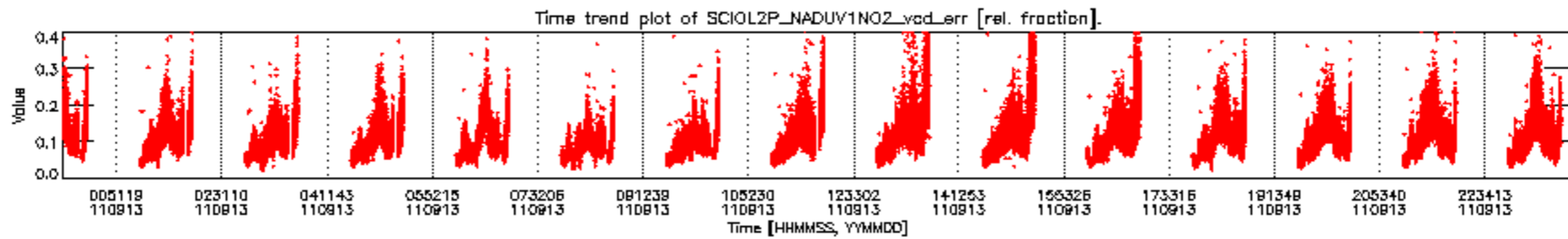
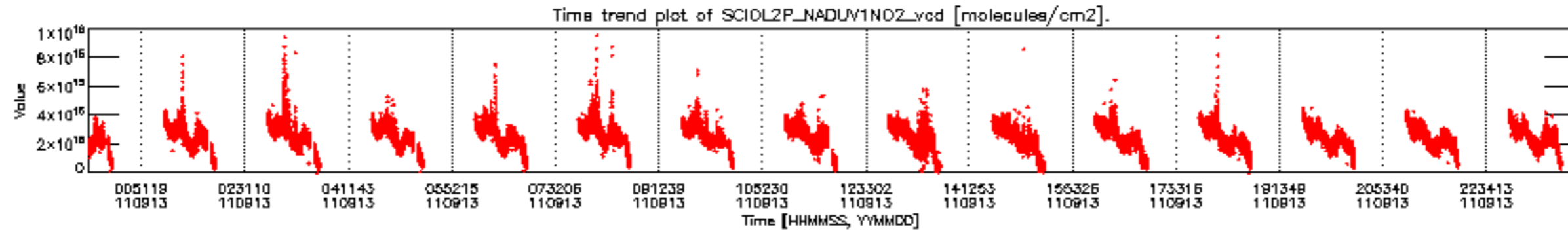


SCIOL2P\_NADUV003\_amf\_gr for 13SEP2011 00:00:00 to 14SEP2011 00:00:00

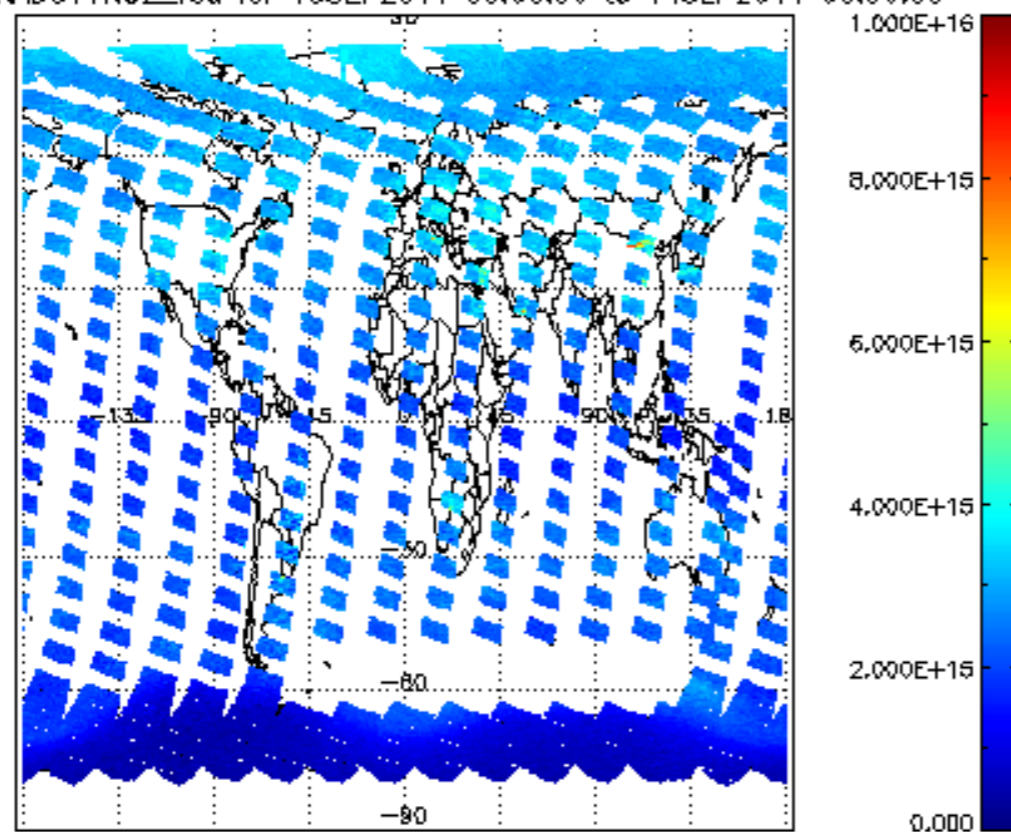


SCIOL2P\_NADUV003\_amf\_cl for 13SEP2011 00:00:00 to 14SEP2011 00:00:00

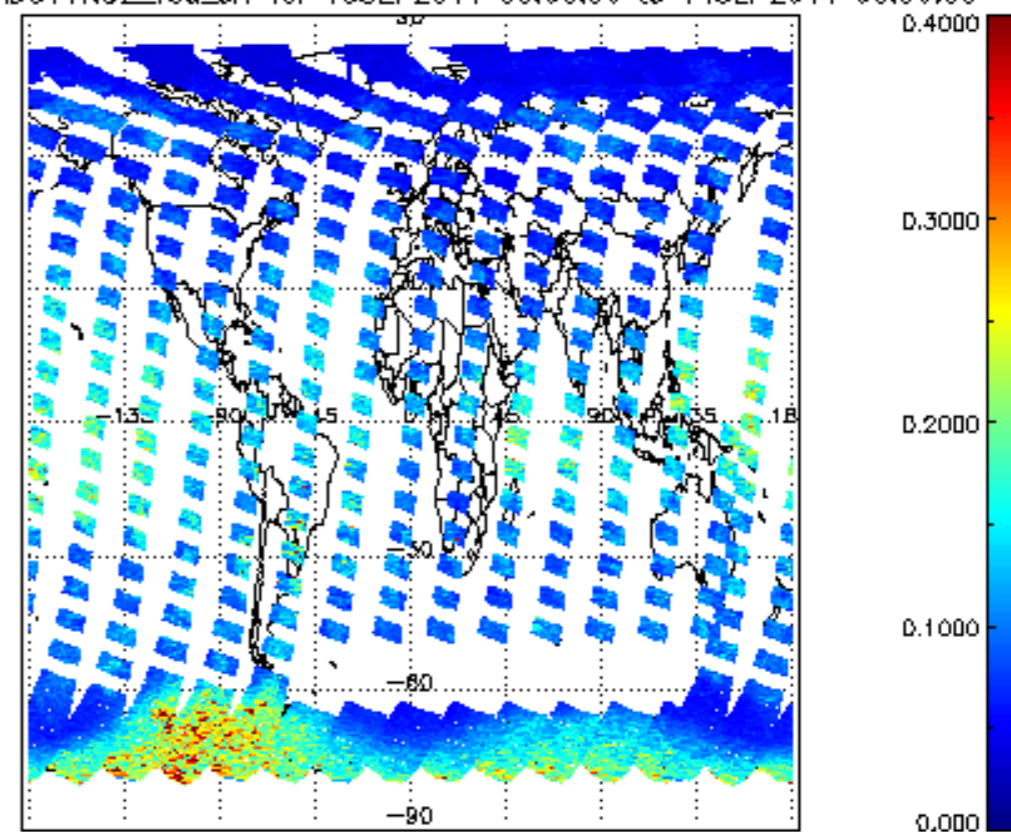




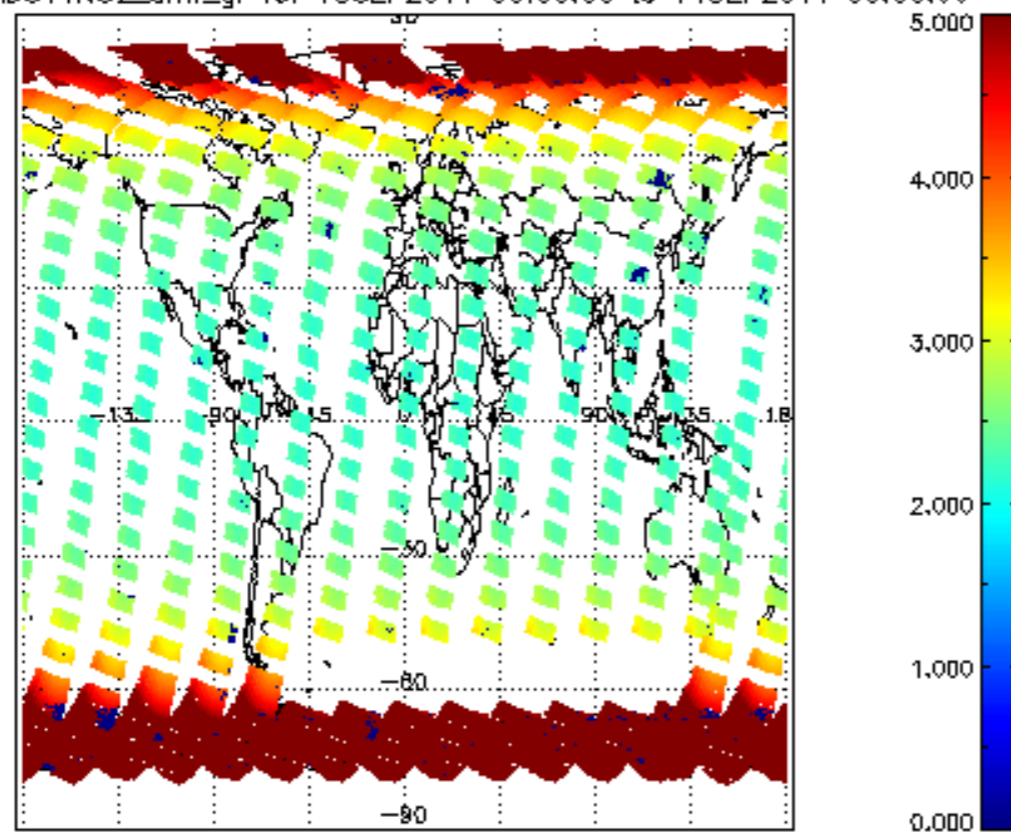
SCIOL2P\_NADUV1N02\_vcd for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



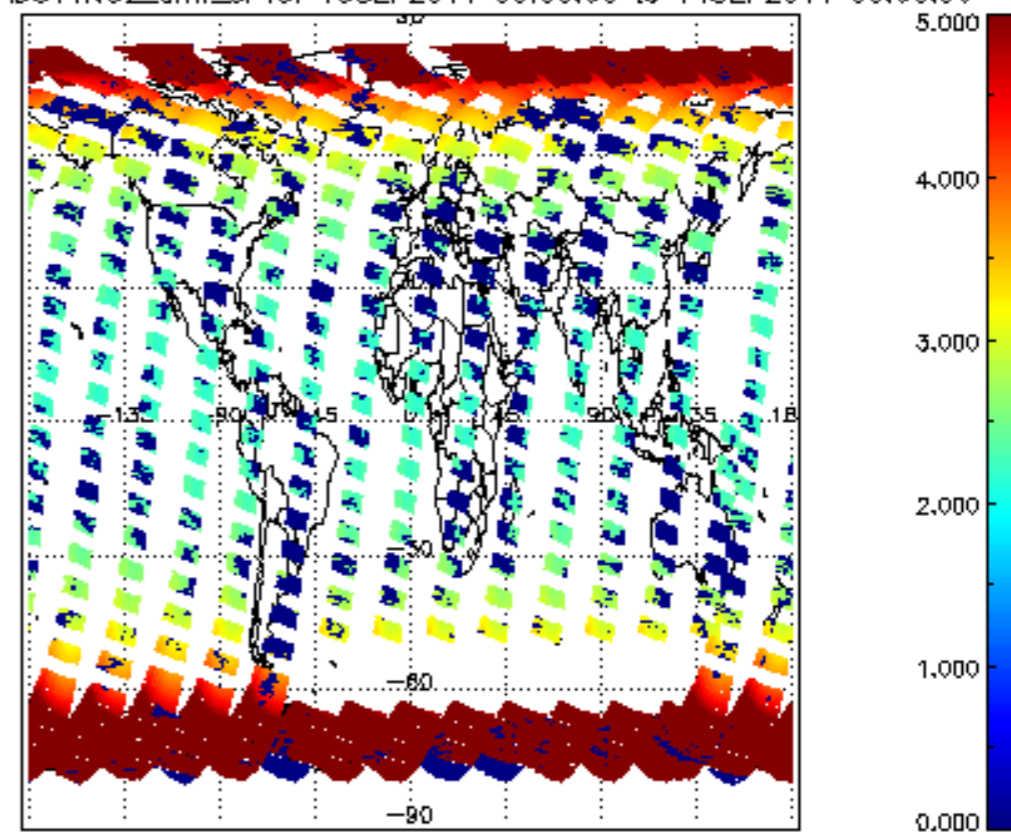
SCIOL2P\_NADUV1N02\_vcd\_err for 13SEP2011 00:00:00 to 14SEP2011 00:00:00

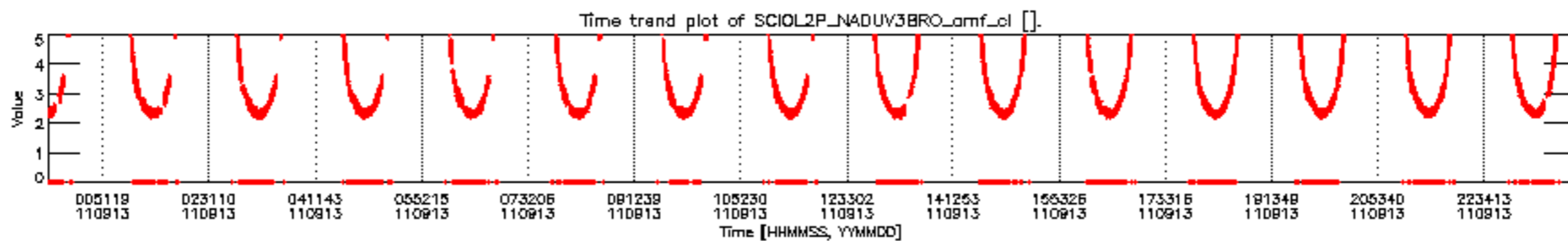
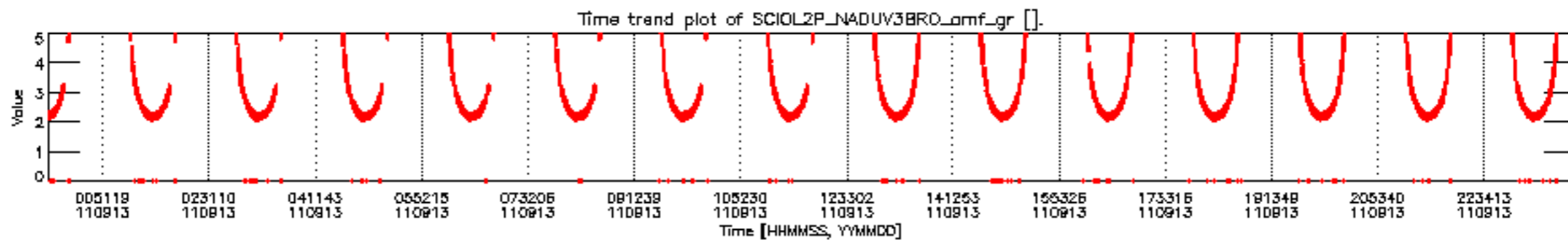
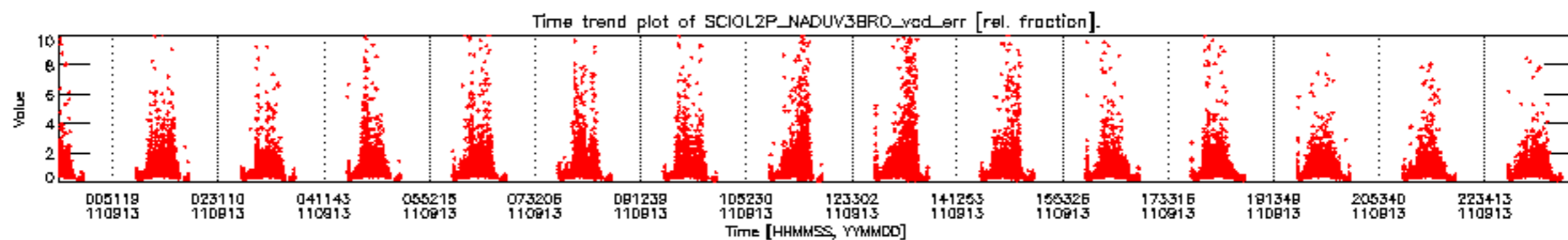
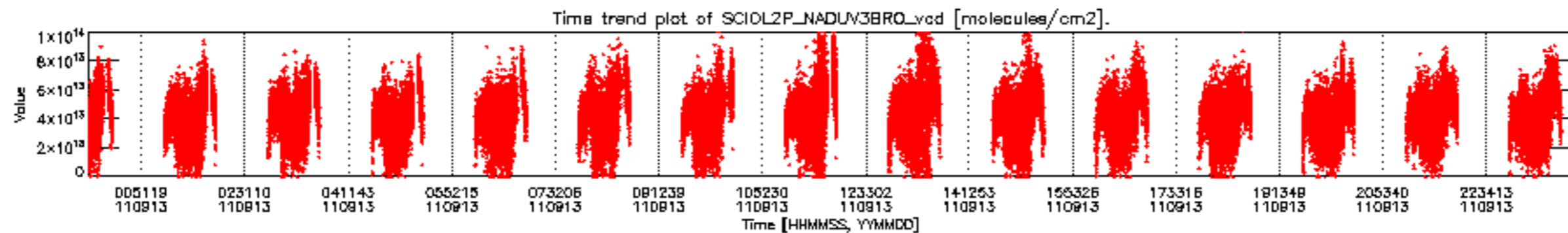


SCIOL2P\_NADUV1N02\_amf\_gr for 13SEP2011 00:00:00 to 14SEP2011 00:00:00

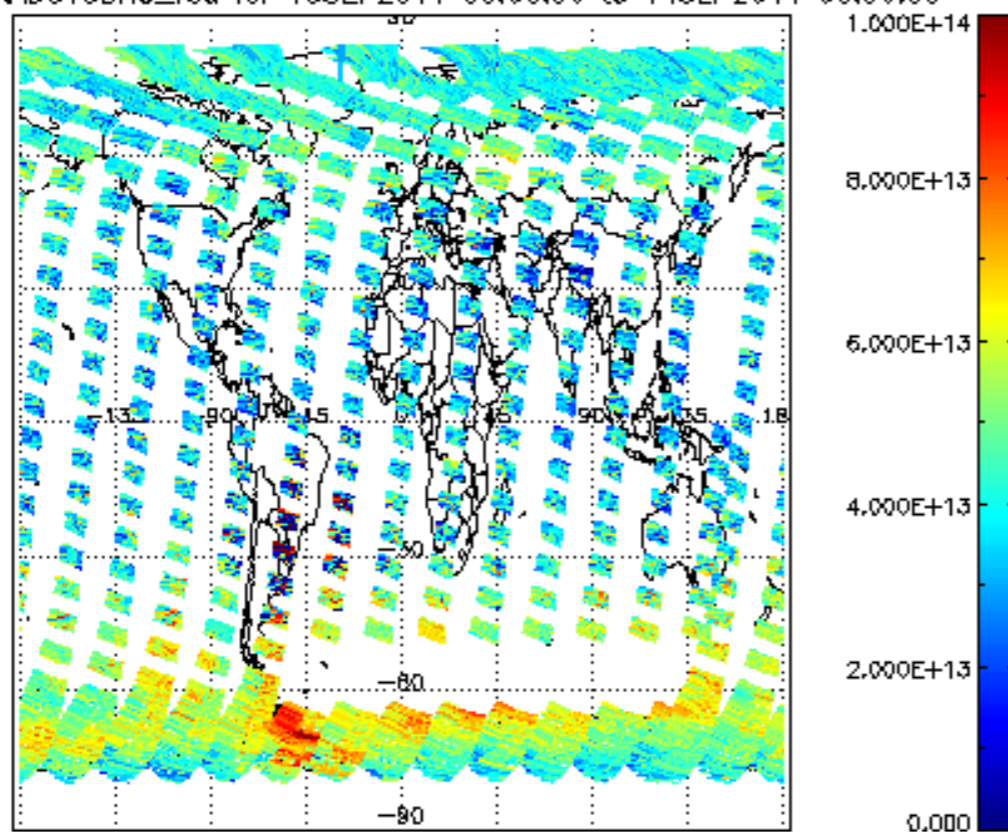


SCIOL2P\_NADUV1N02\_amf\_cl for 13SEP2011 00:00:00 to 14SEP2011 00:00:00

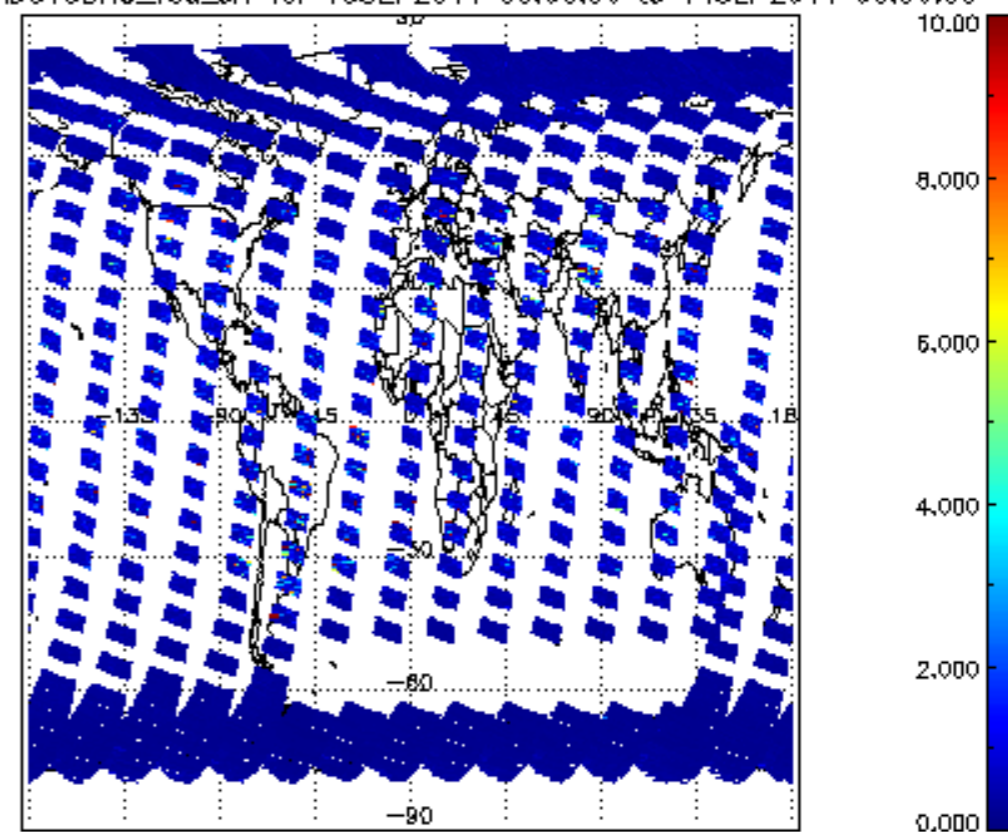




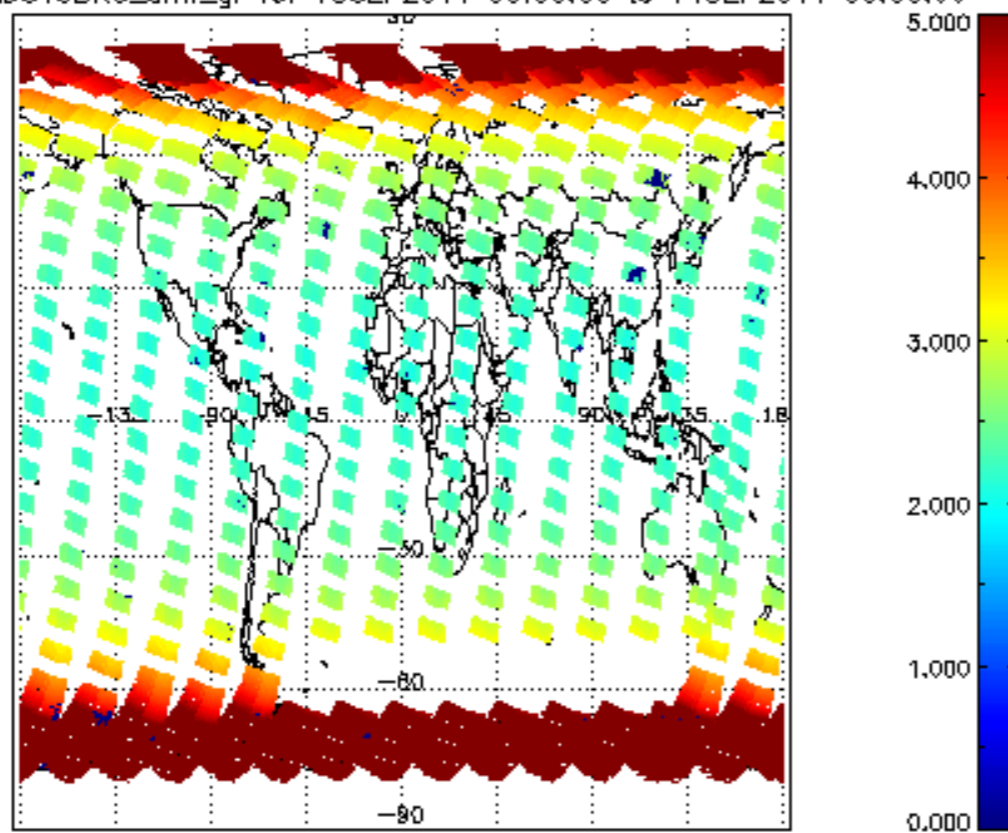
SCIOL2P\_NADUV3BRO\_vcd for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



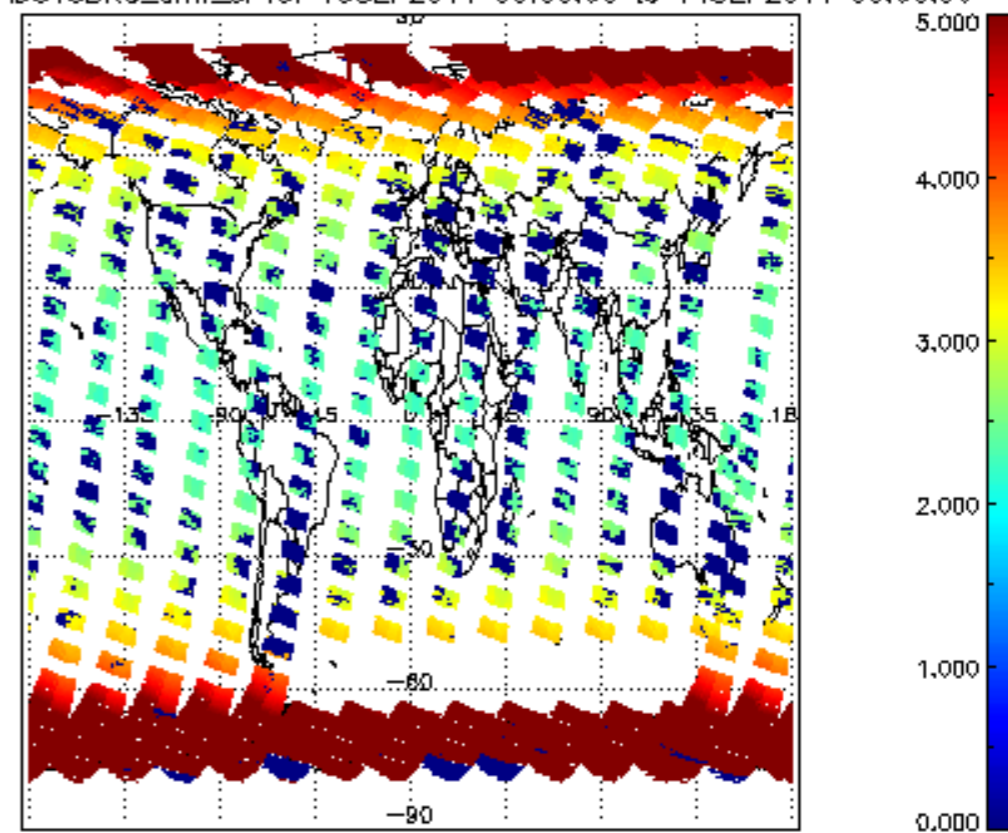
SCIOL2P\_NADUV3BRO\_vcd\_err for 13SEP2011 00:00:00 to 14SEP2011 00:00:00

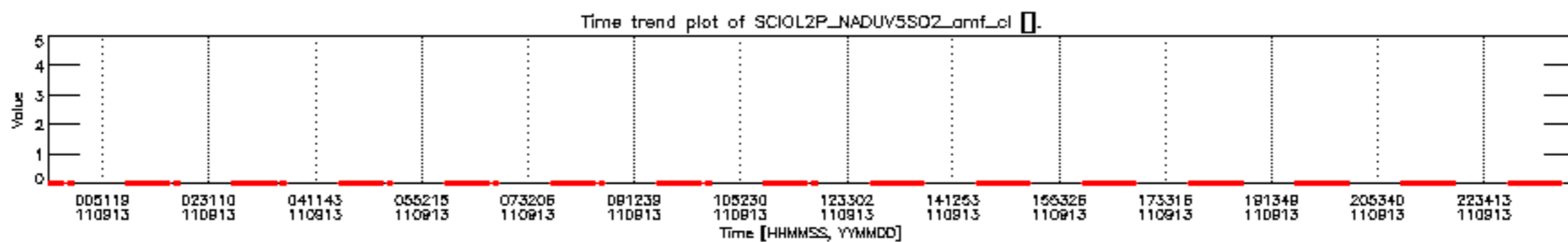
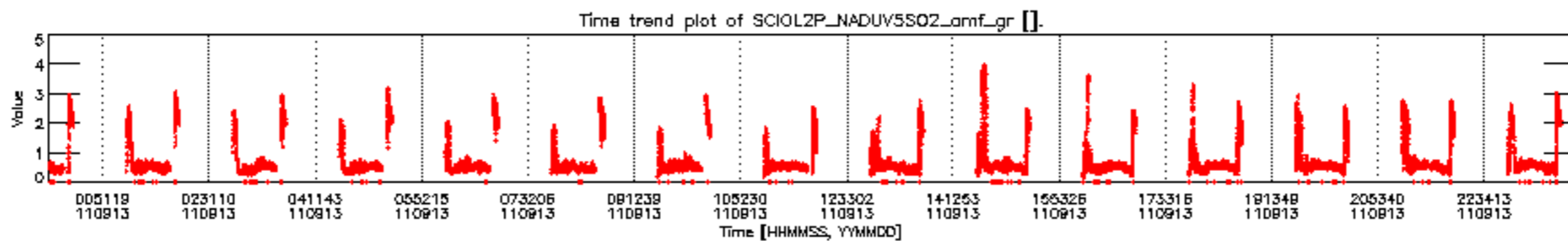
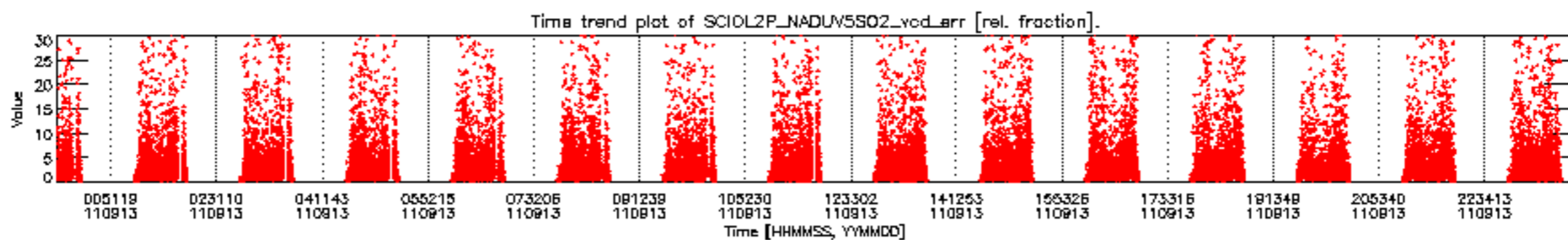
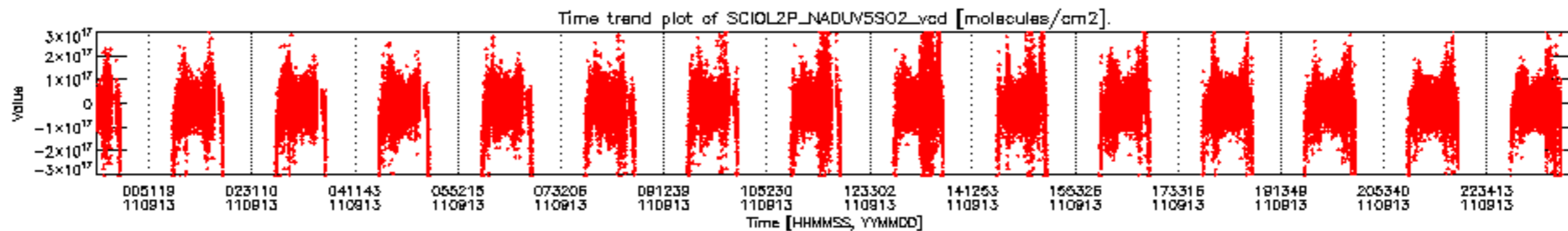


SCIOL2P\_NADUV3BRO\_amf\_gr for 13SEP2011 00:00:00 to 14SEP2011 00:00:00

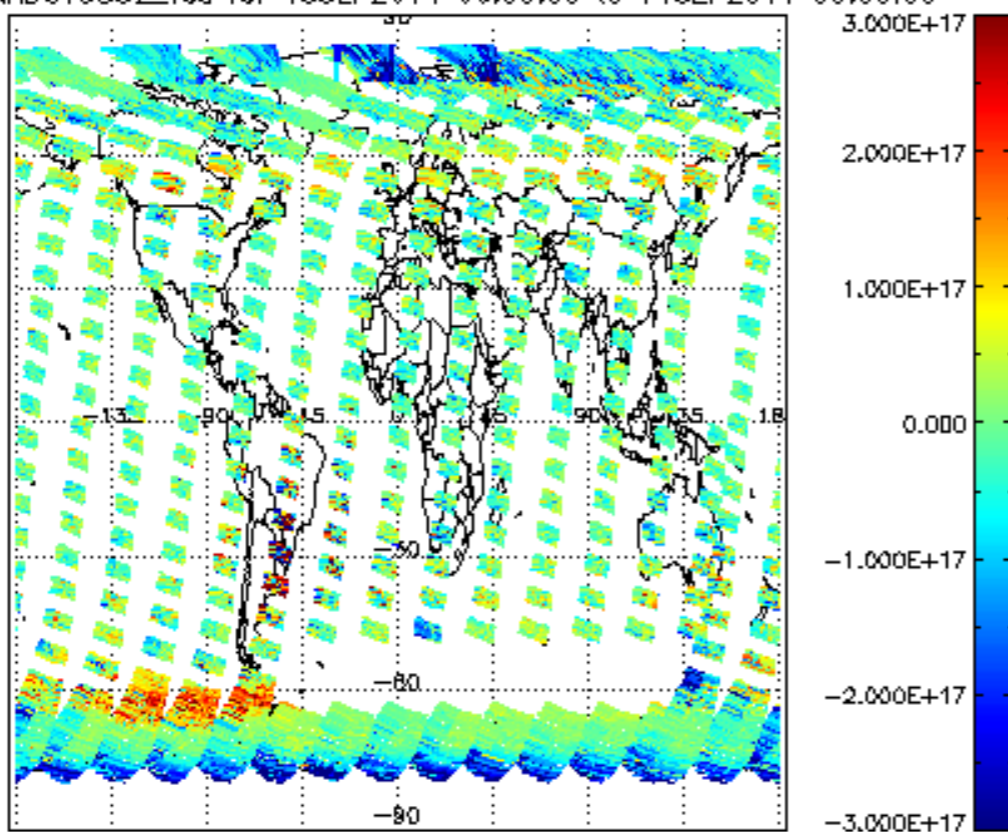


SCIOL2P\_NADUV3BRO\_amf\_cl for 13SEP2011 00:00:00 to 14SEP2011 00:00:00

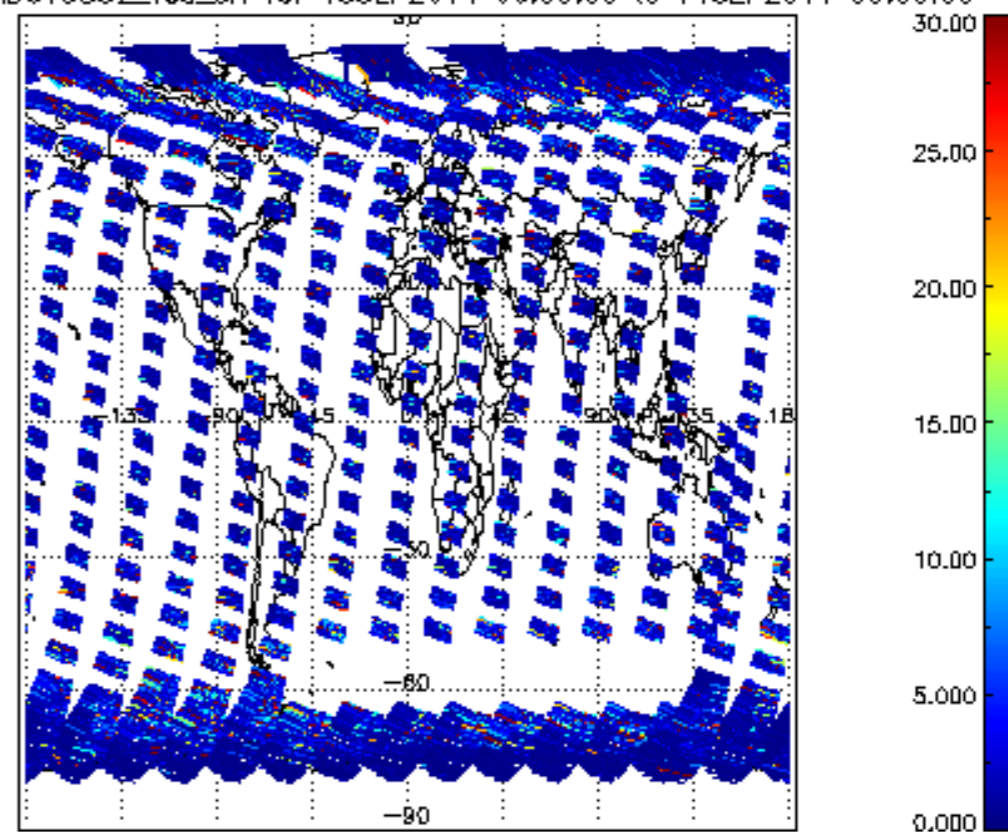




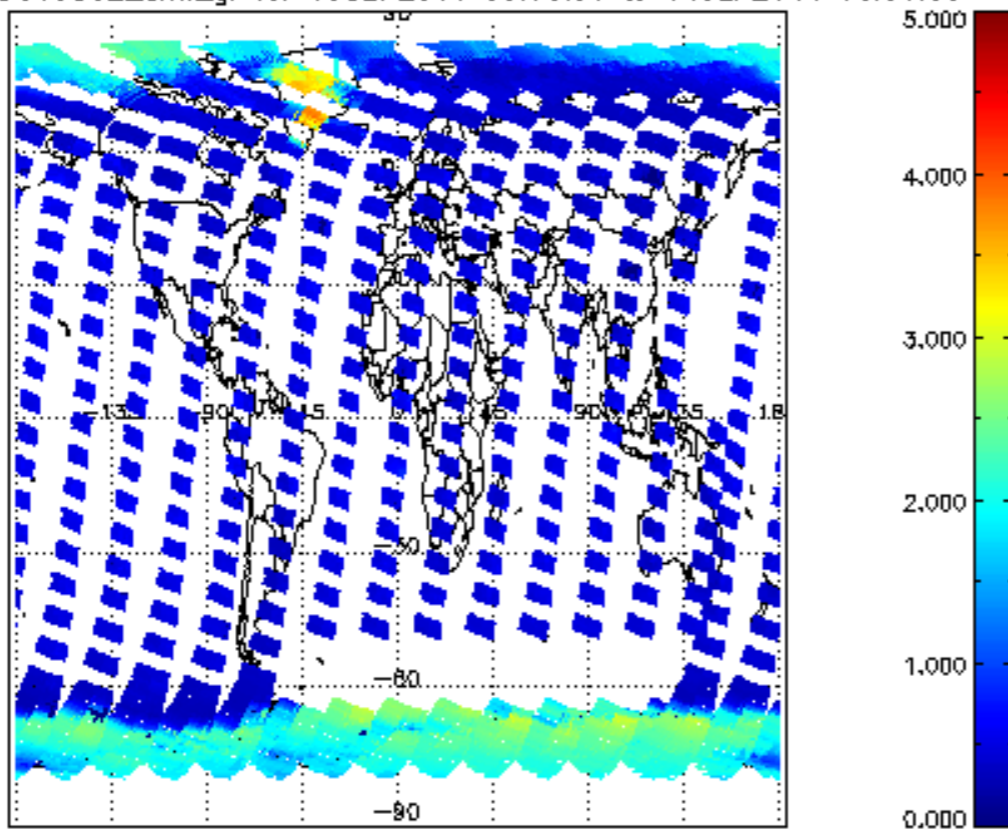
SCIOL2P\_NADUV5S02\_vcd for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



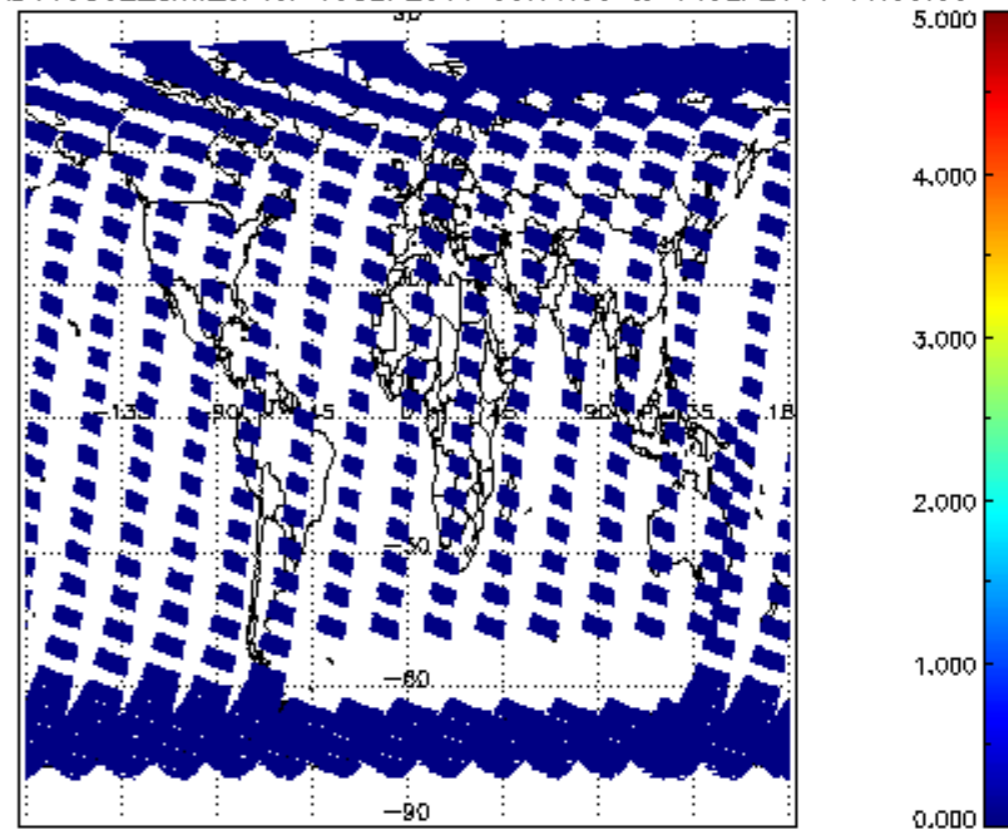
SCIOL2P\_NADUV5S02\_vcd\_err for 13SEP2011 00:00:00 to 14SEP2011 00:00:00

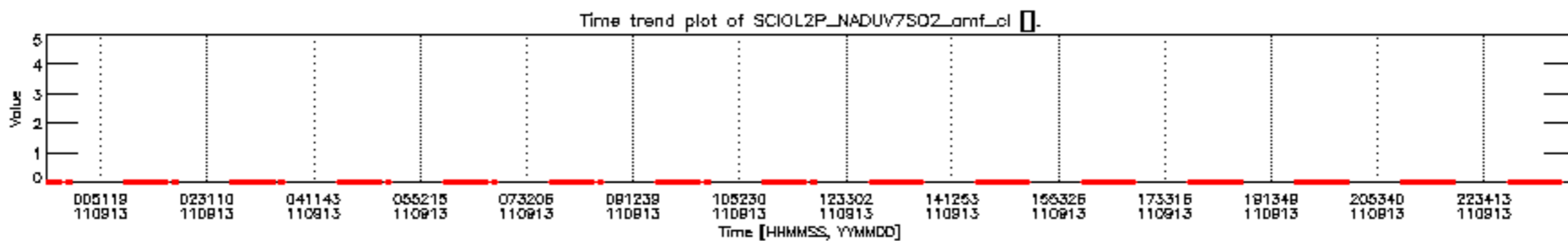
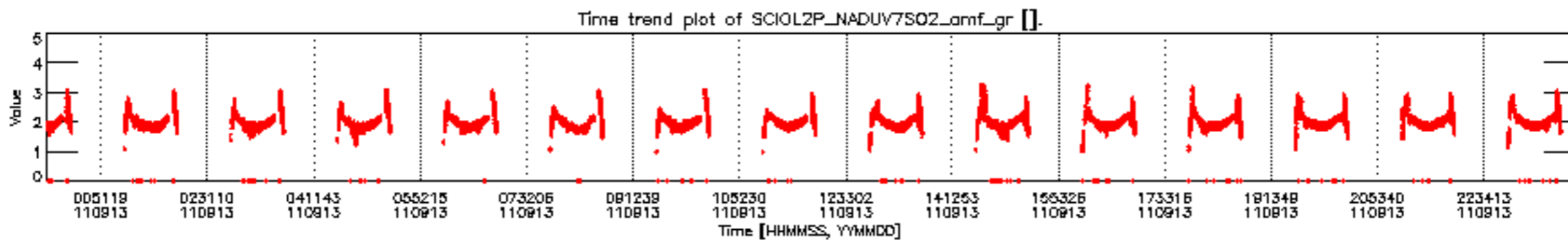
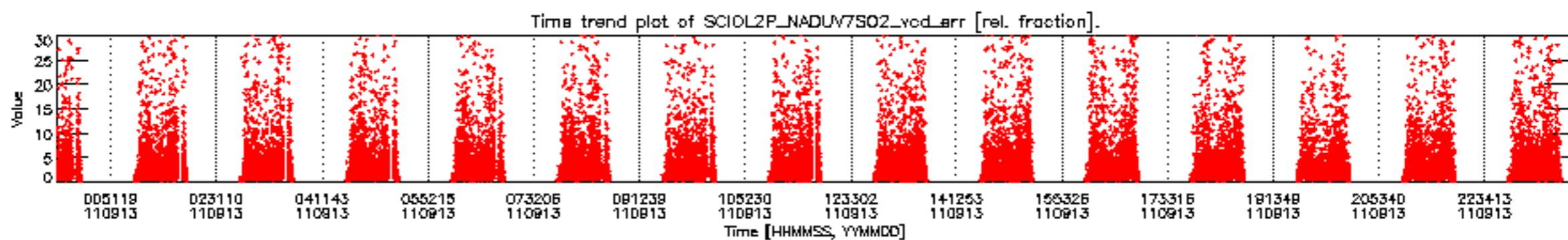
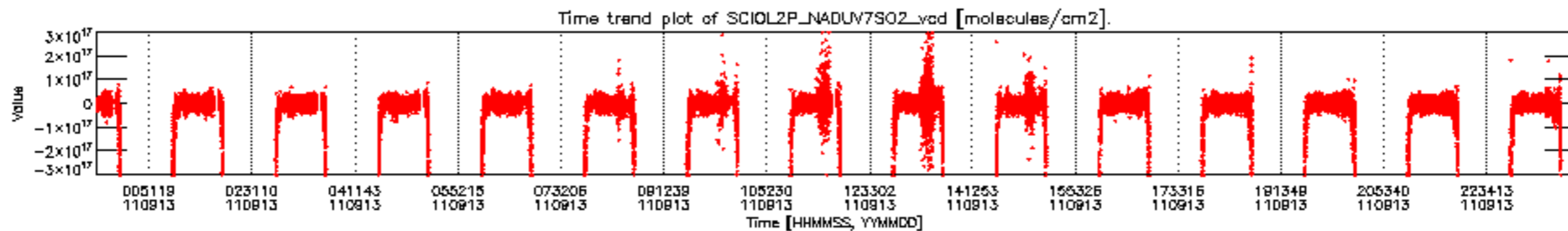


SCIOL2P\_NADUV5S02\_amf\_gr for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



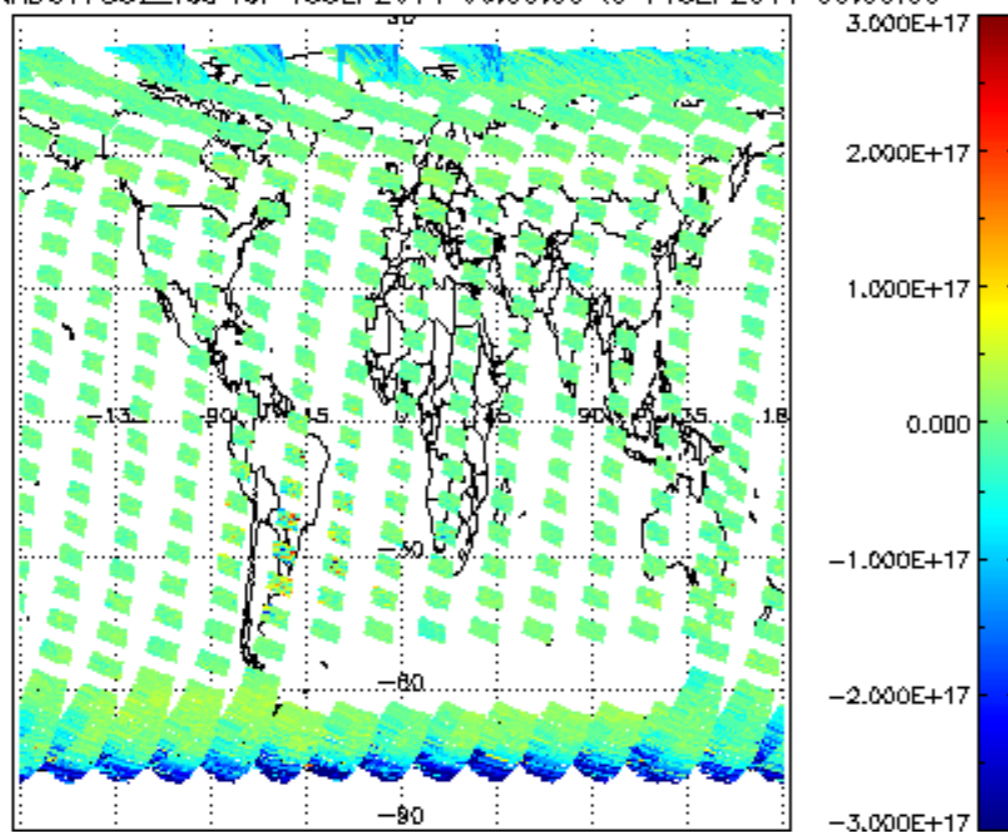
SCIOL2P\_NADUV5S02\_amf\_cl for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



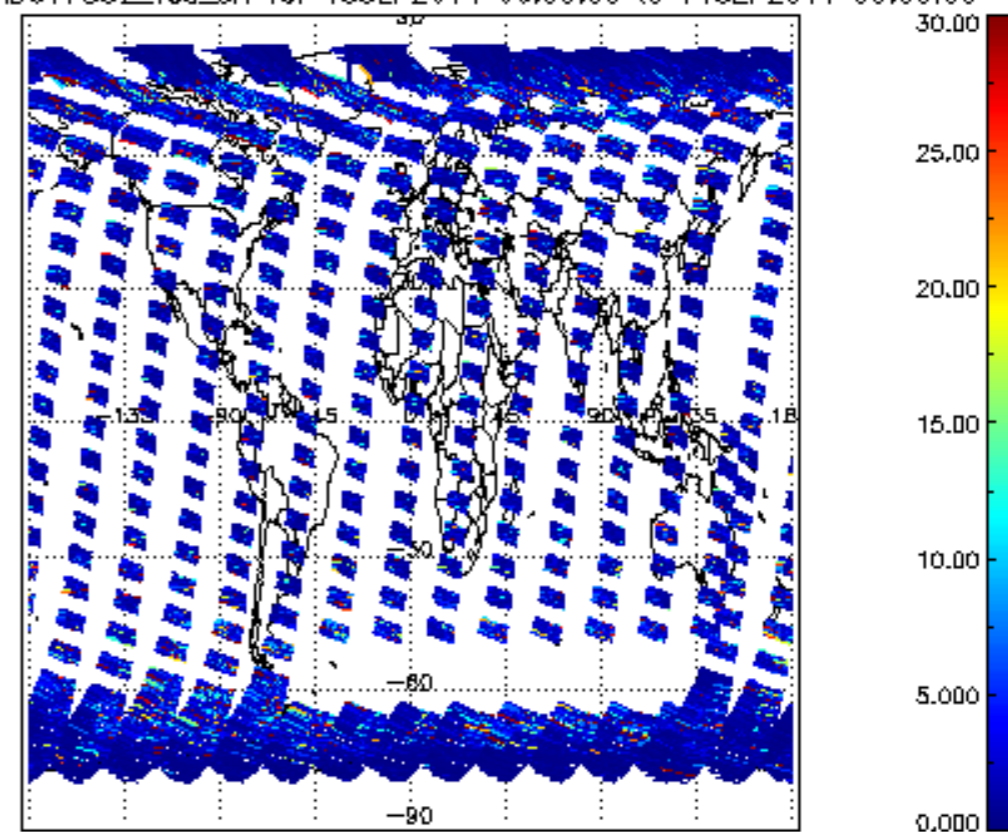




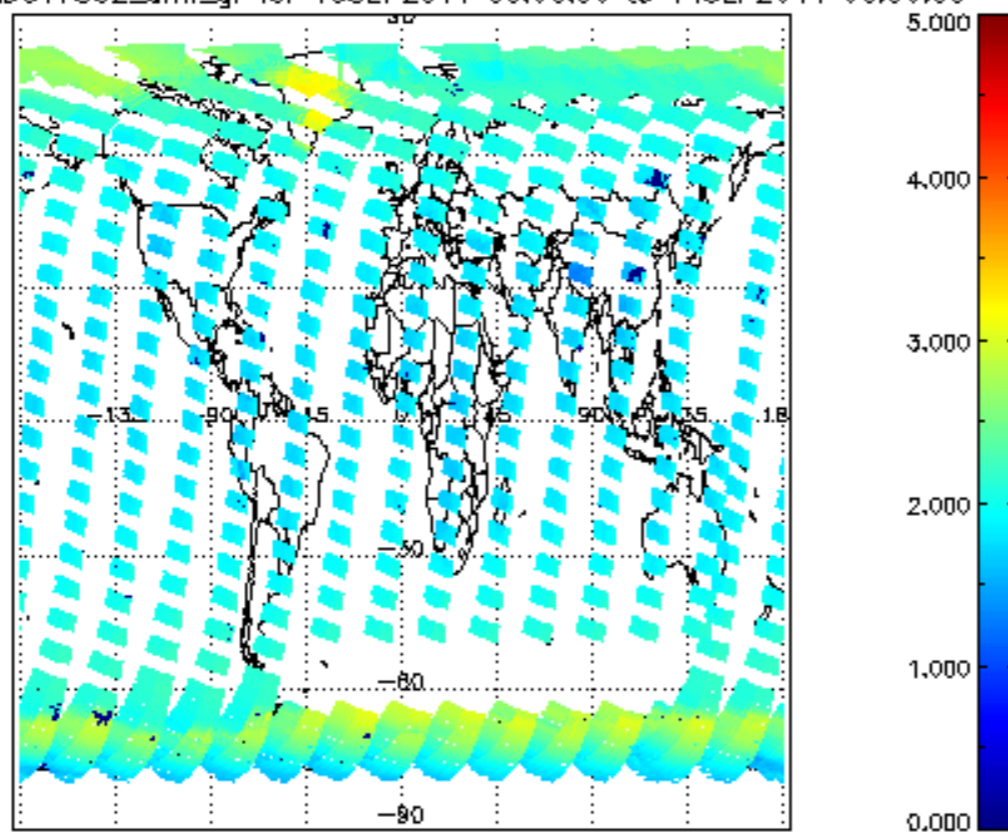
SCIOL2P\_NADUV7S02\_vcd for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



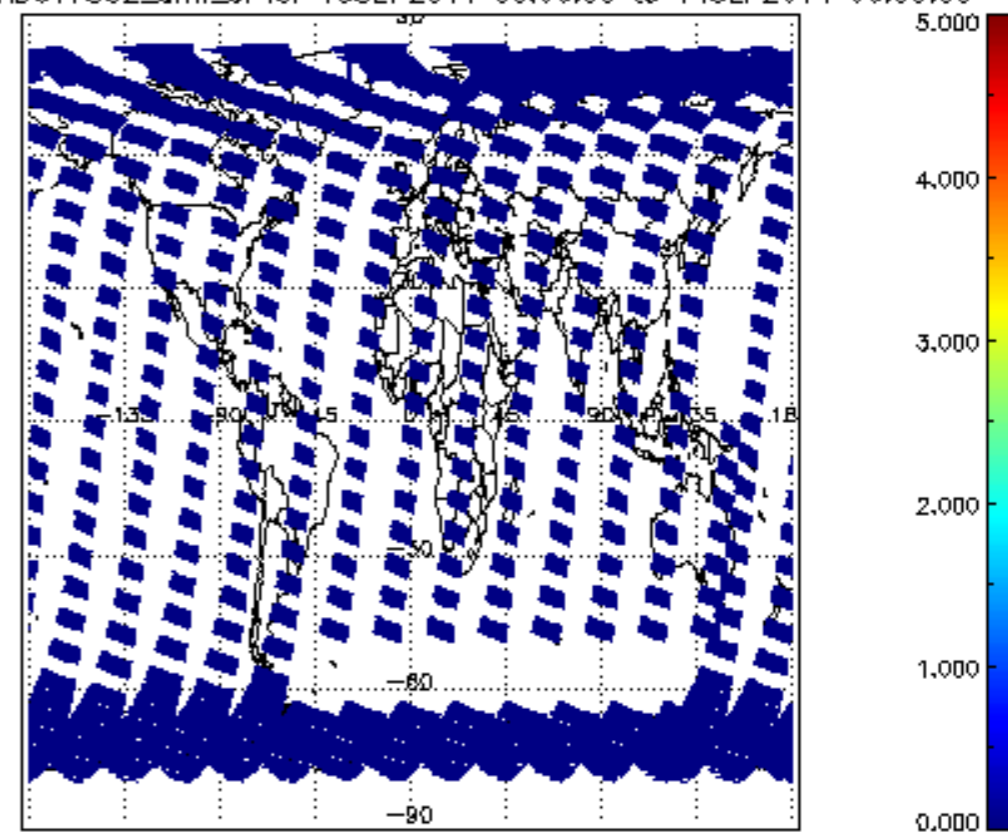
SCIOL2P\_NADUV7S02\_vcd\_err for 13SEP2011 00:00:00 to 14SEP2011 00:00:00



SCIOL2P\_NADUV7S02\_amf\_gr for 13SEP2011 00:00:00 to 14SEP2011 00:00:00

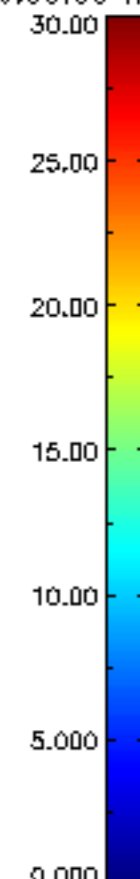
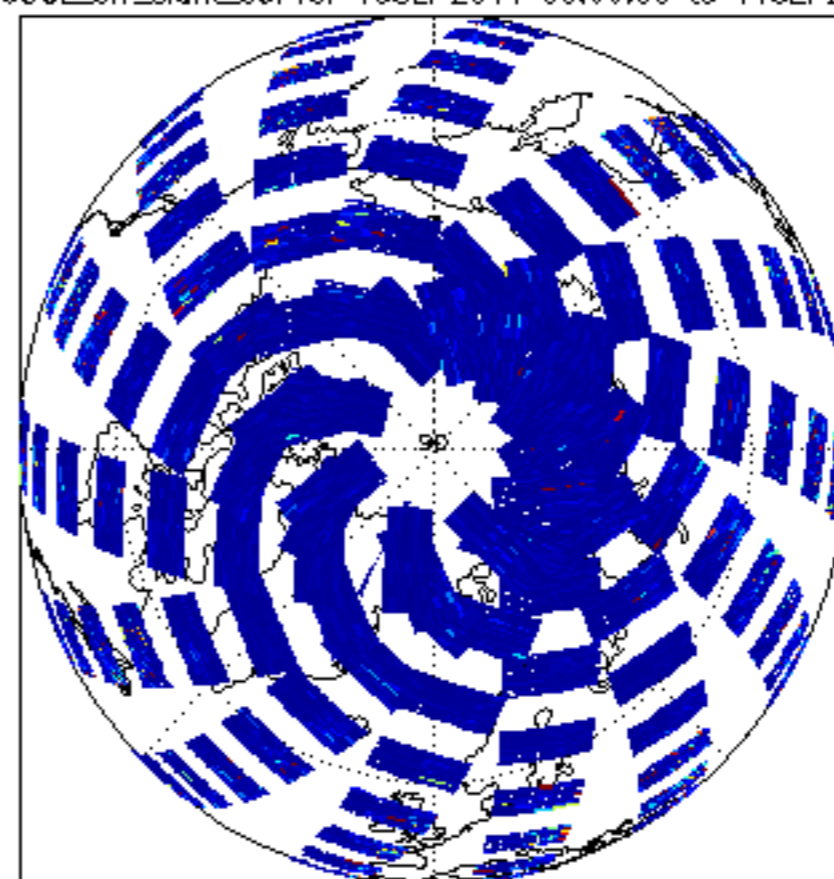
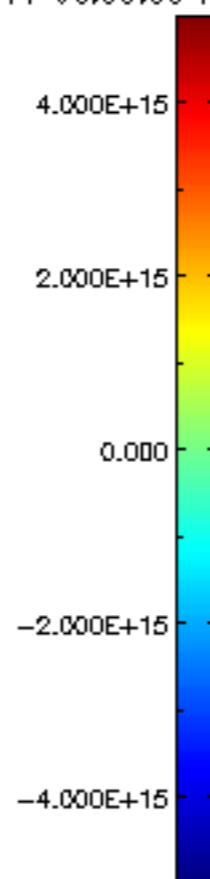
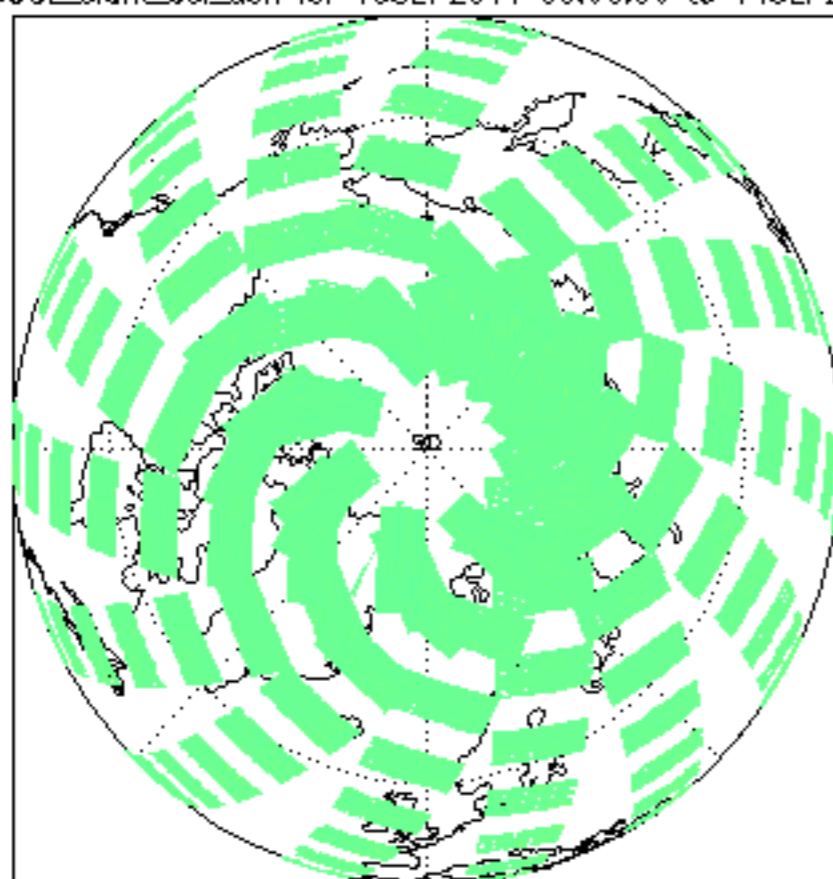


SCIOL2P\_NADUV7S02\_amf\_cl for 13SEP2011 00:00:00 to 14SEP2011 00:00:00

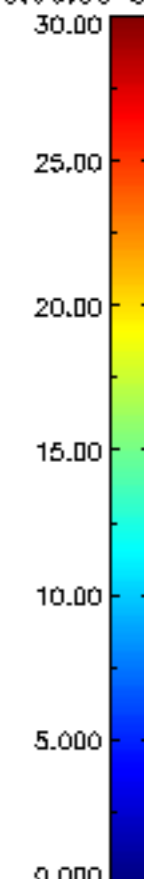
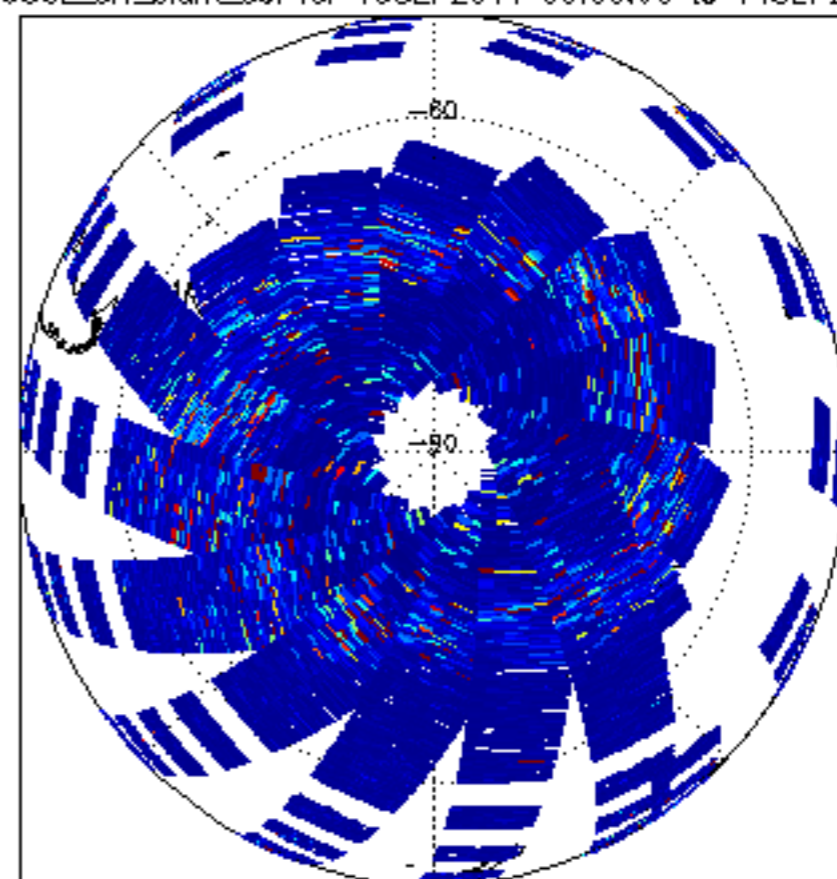
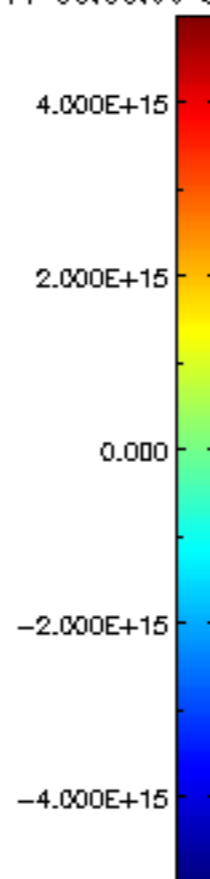
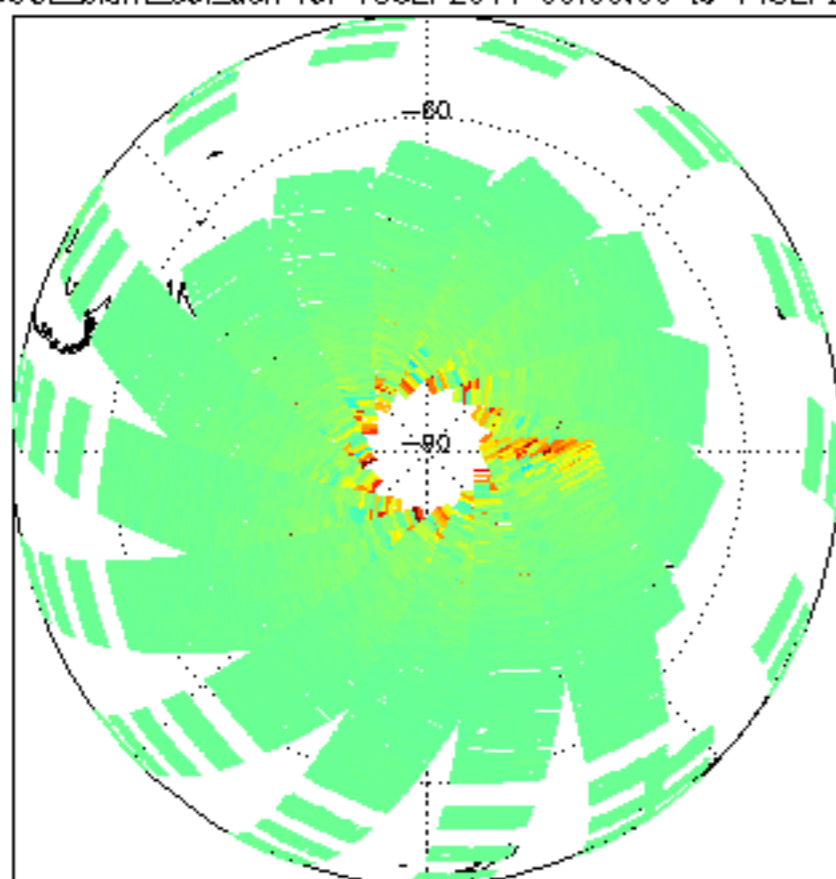


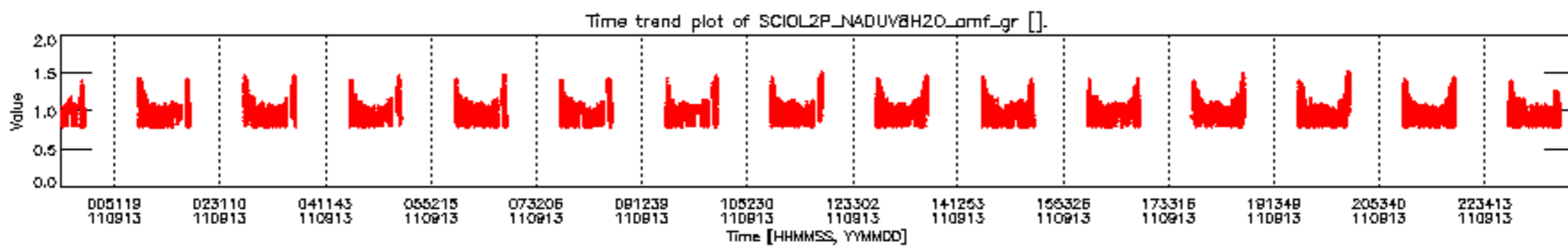
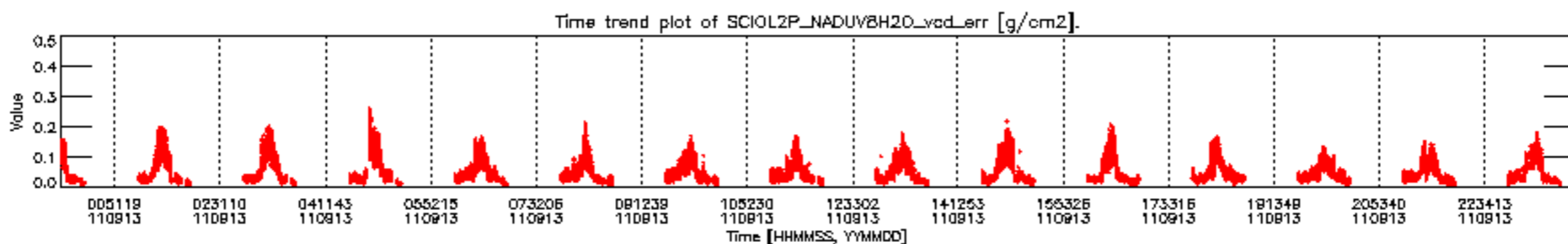
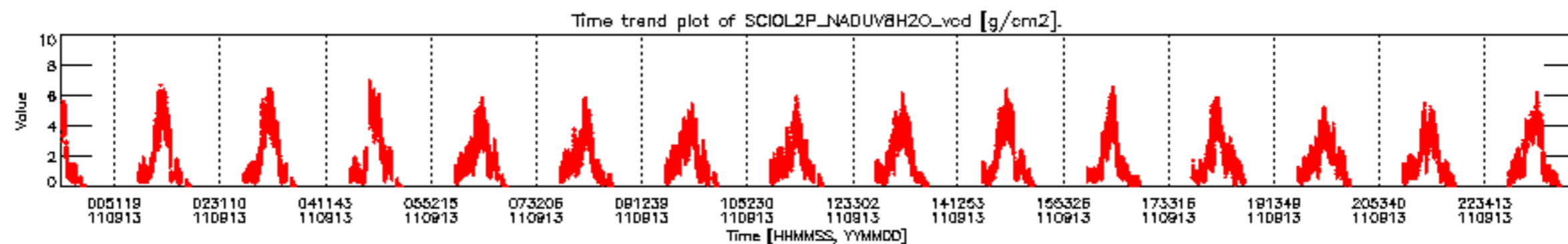


CIOL2P\_NADUV60CL\_slant\_col\_den for 13SEP2011 00:00:00 to 14SEP2011 00:00:00 np iCIOL2P\_NADUV60CL\_err\_slant\_col for 13SEP2011 00:00:00 to 14SEP2011 00:00:00 np

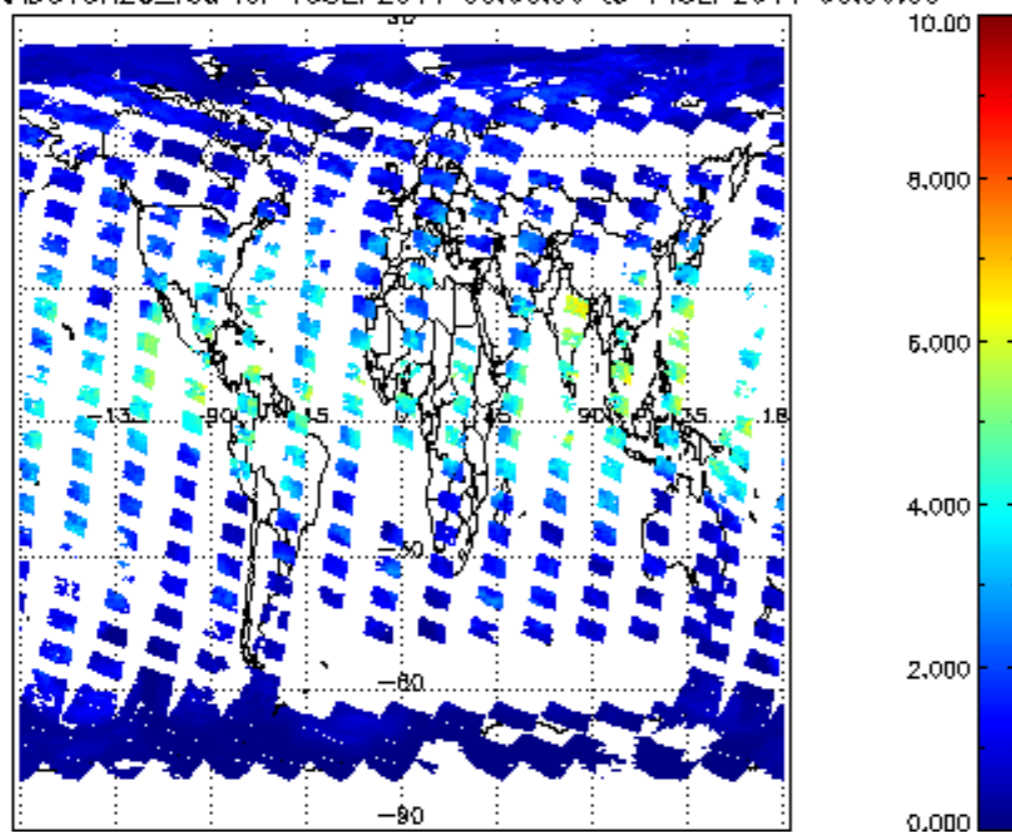


CIOL2P\_NADUV60CL\_slant\_col\_den for 13SEP2011 00:00:00 to 14SEP2011 00:00:00 sp iCIOL2P\_NADUV60CL\_err\_slant\_col for 13SEP2011 00:00:00 to 14SEP2011 00:00:00 sp

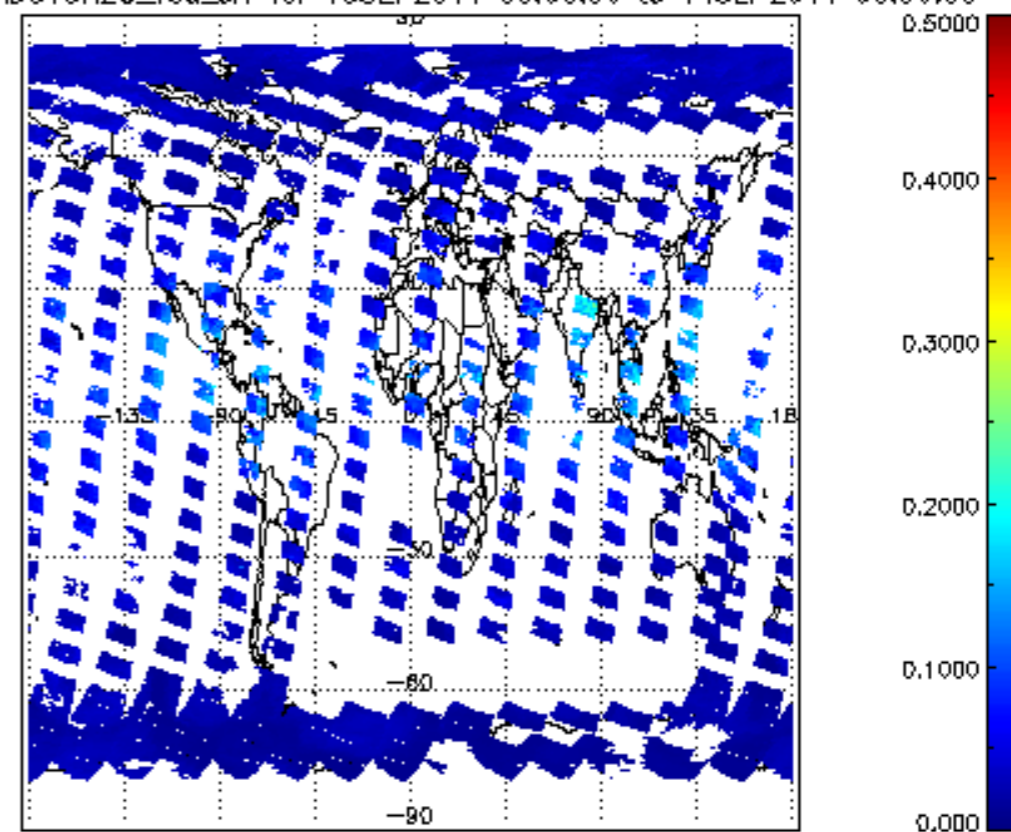




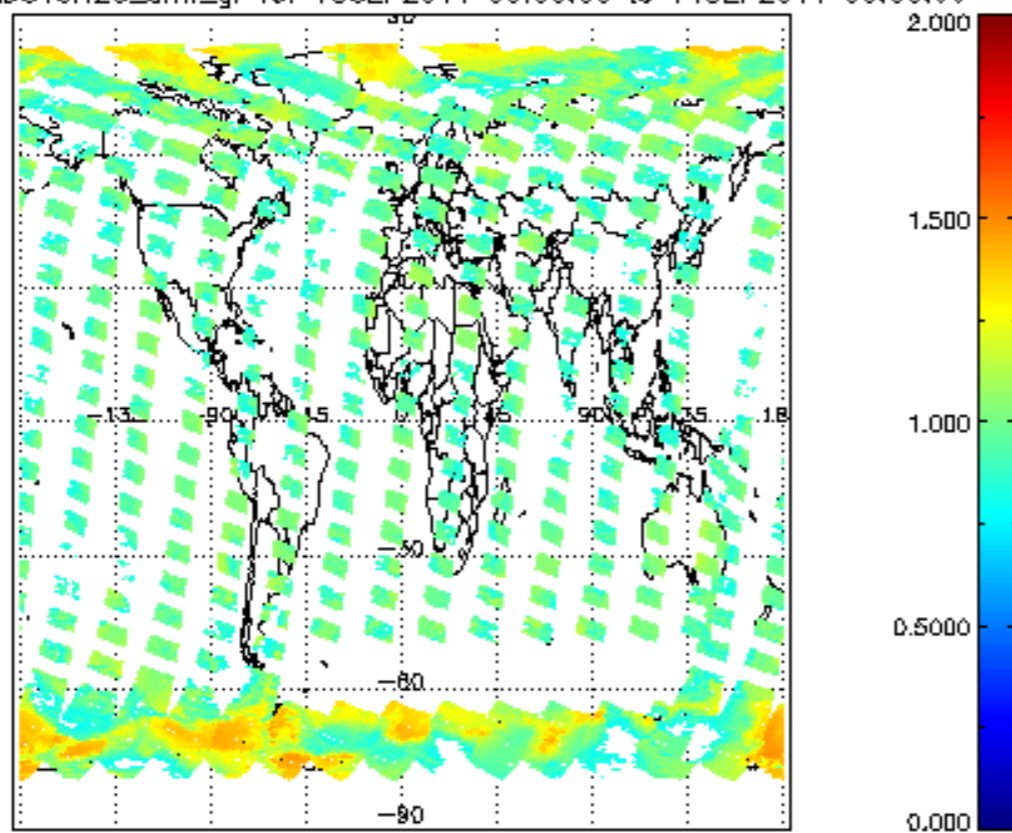
SCIOL2P\_NADUV8H2O\_vcd for 13SEP2011 00:00:00 to 14SEP2011 00:00:00

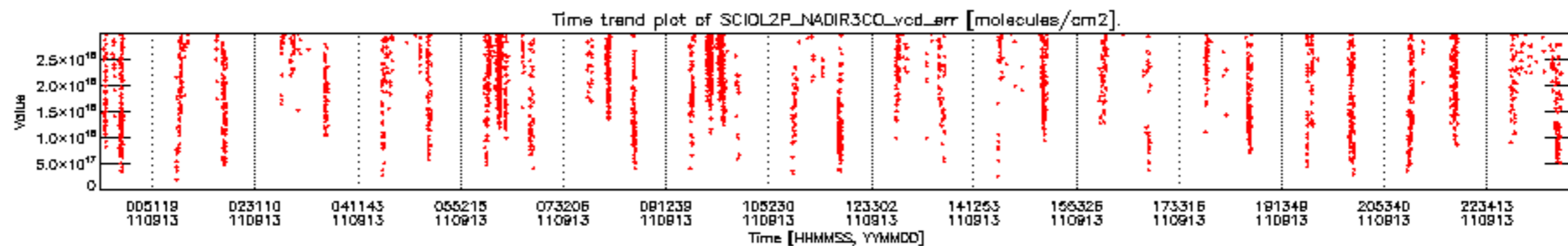
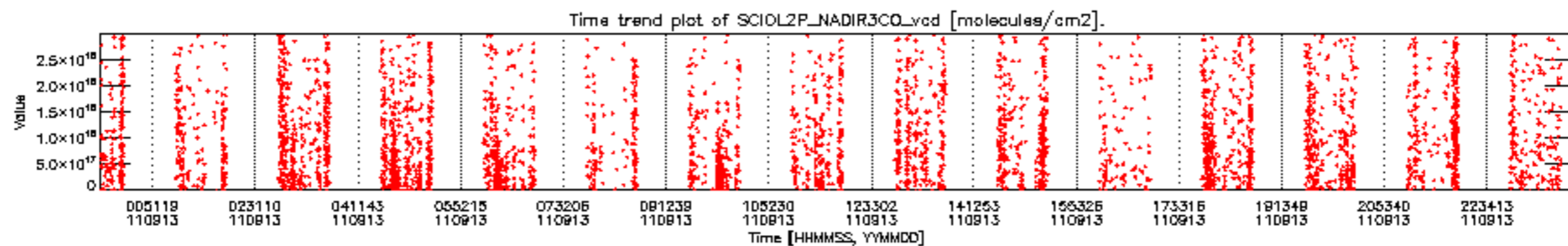


SCIOL2P\_NADUV8H2O\_vcd\_err for 13SEP2011 00:00:00 to 14SEP2011 00:00:00

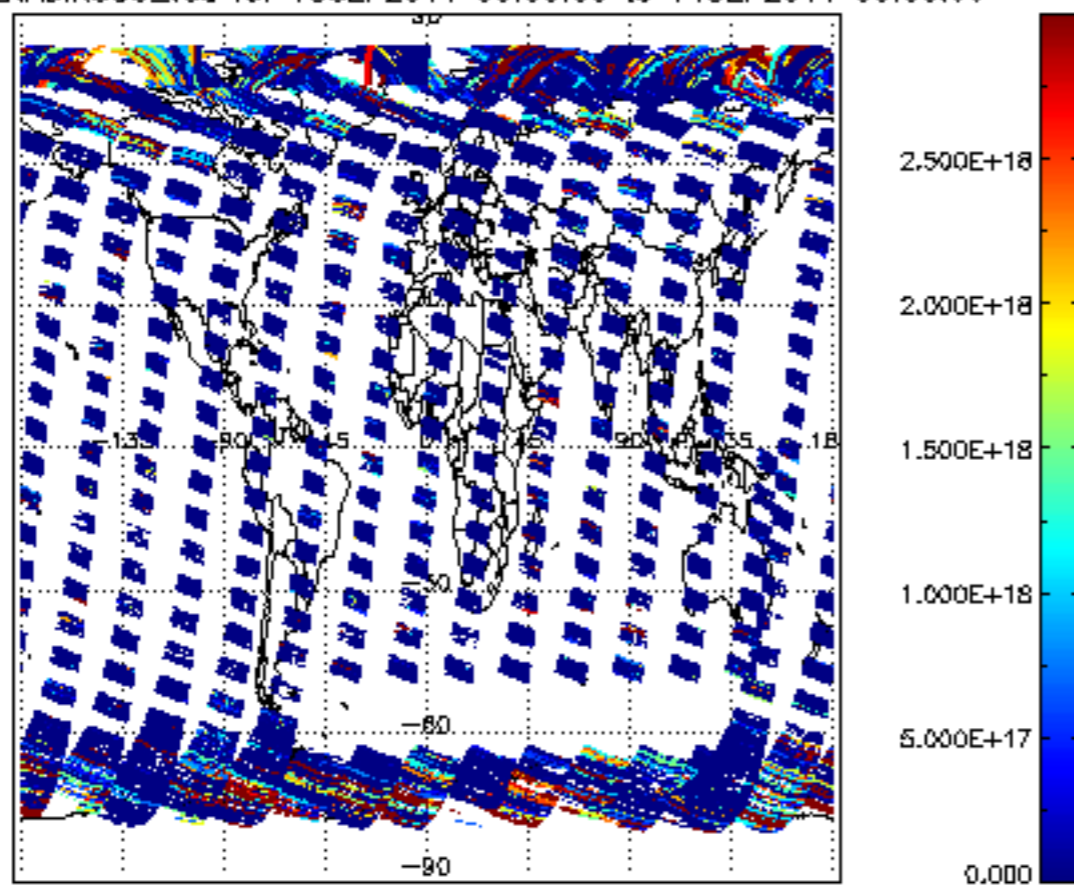


SCIOL2P\_NADUV8H2O\_amf\_gr for 13SEP2011 00:00:00 to 14SEP2011 00:00:00

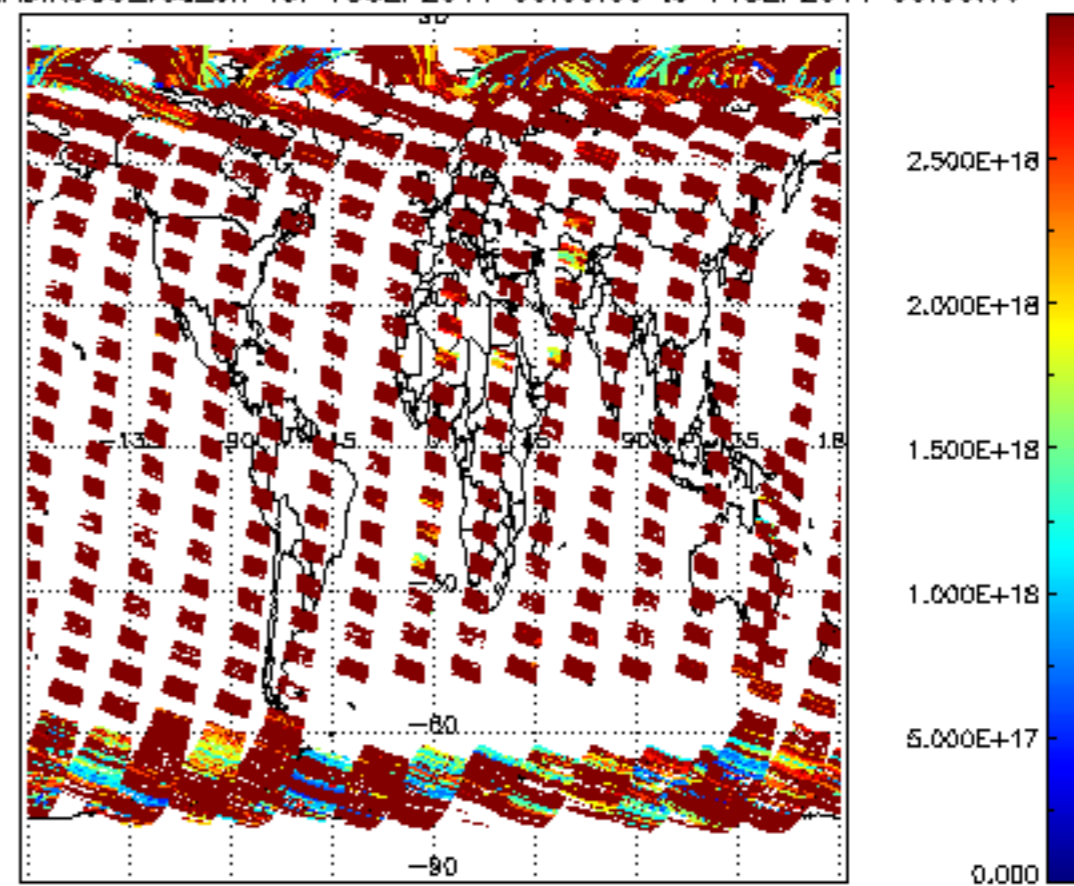




SCIOL2P\_NADIR3CO\_vcd for 13SEP2011 00:00:00 to 14SEP2011 00:00:00

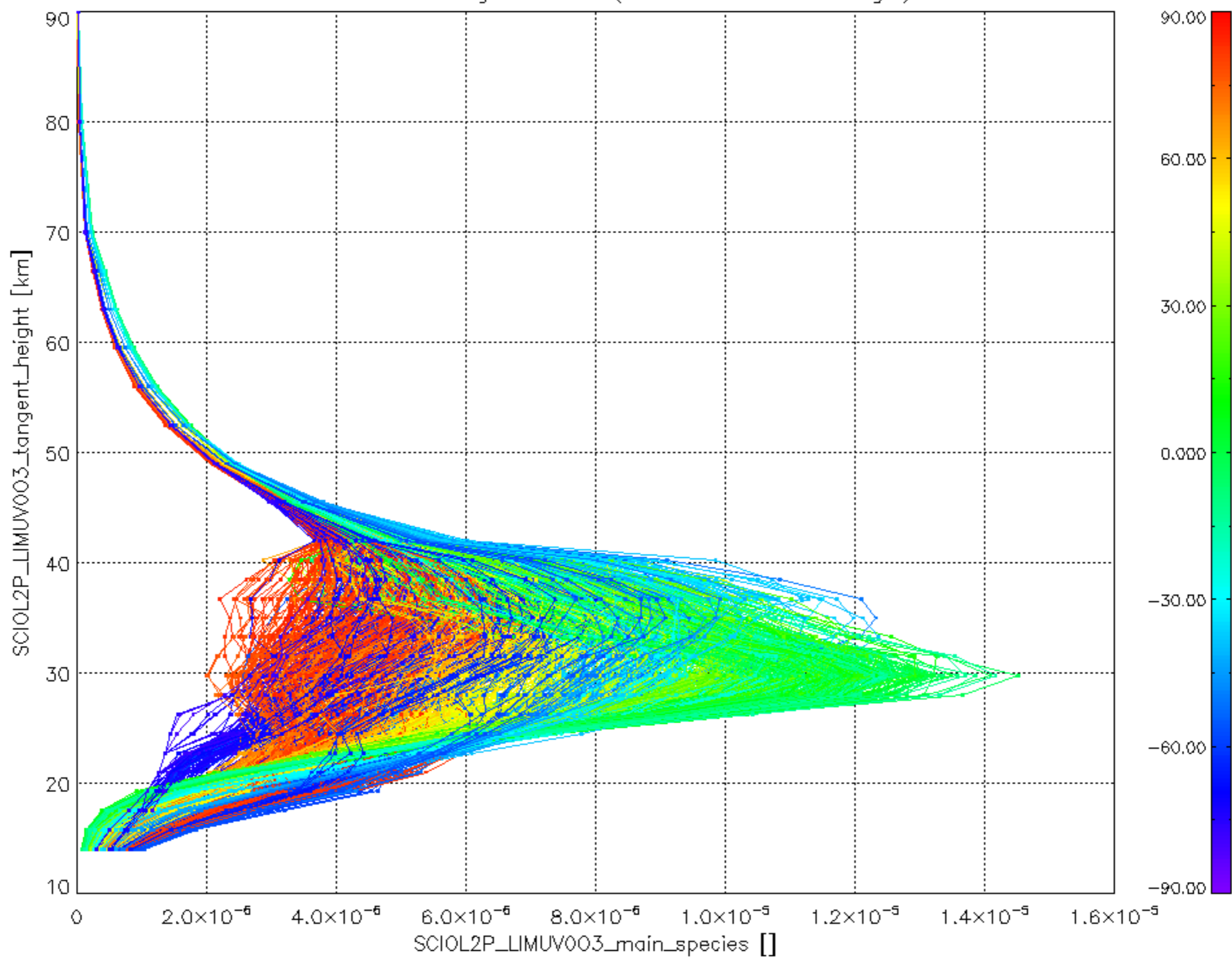


SCIOL2P\_NADIR3CO\_vcd\_err for 13SEP2011 00:00:00 to 14SEP2011 00:00:00

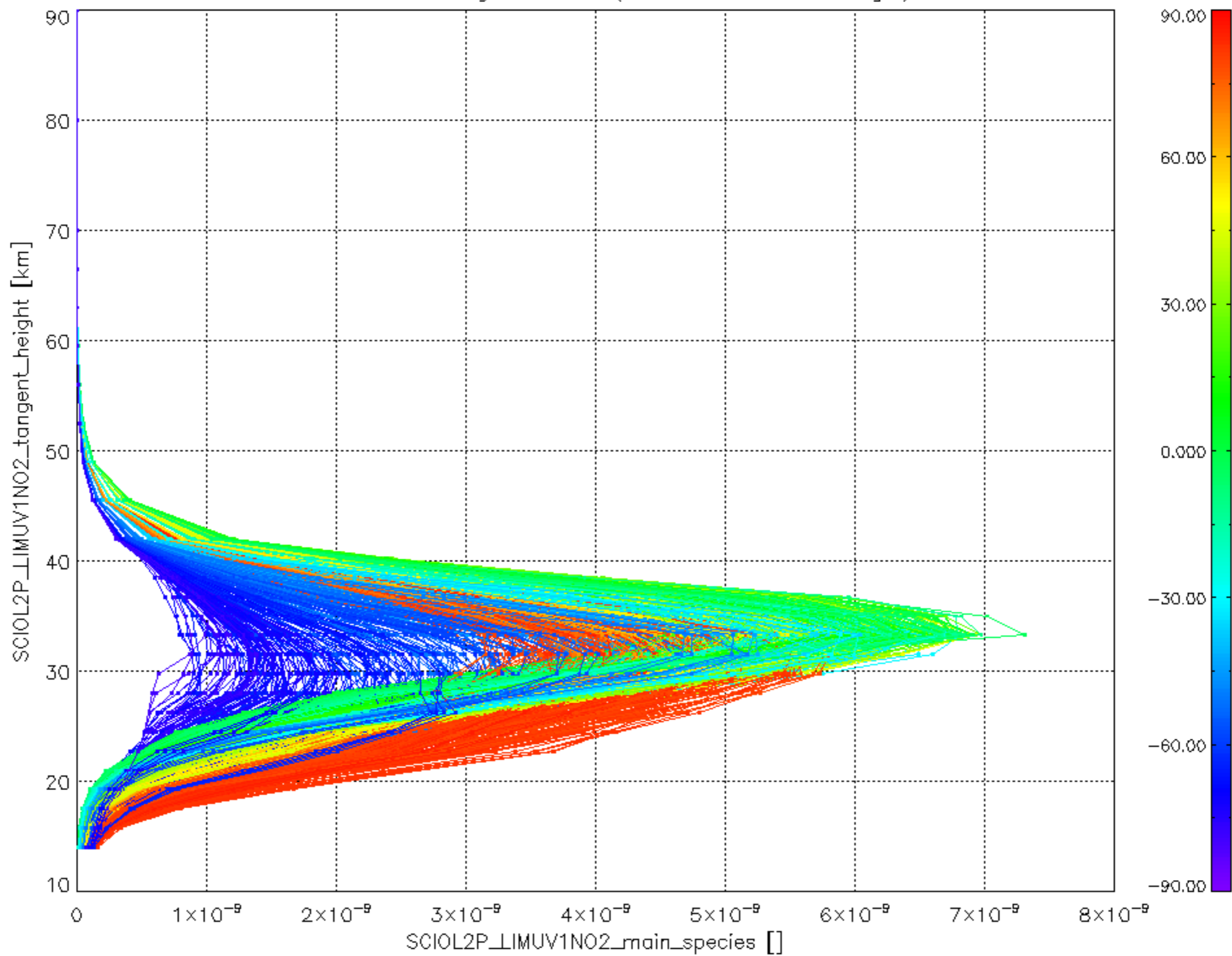




Plot of SCIOL2P\_LIMUV003\_main\_species.tang\_vmr vs. tangent height.  
 Colours indicate tangent latitude (see colour bar on the right).



Plot of SCIOL2P\_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).

