

## 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                           | 1.12 (24-06-2010)                        |
| Time of report generation                | 20FEB2011 03:12:39                       |
| Data source version                      | SCIA-OL/5.01-U                           |
| Processing scope for products            | 02FEB2011 00:00:00 to 03FEB2011 00:00:00 |
| Start time of first product within scope | 01FEB2011 23:05:21                       |
| Stop time of last product within scope   | 03FEB2011 01:08:44                       |
| Total number of level 2 products         | 14                                       |
| Number of level 2 products with errors   | 0  |

### 2.1.2 Summary per product

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

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

Products are checked for a minimum duration of 3500.0000 seconds and a maximum duration of 6000.0000 seconds. Products failing the duration test are highlighted in bold, and their stop time is highlighted in red.

| # | Product name   | Start time         | Stop time          | Prod err | Fit summary |
|---|--|--------------------|--------------------|----------|-------------|
| 0 | <a href="#">SCI_OL__2PUDPA20110201_230521_000035843099_00102_46668_3125.N1</a> | 01FEB2011 23:05:21 | 02FEB2011 00:05:05 | 0        | GOOD        |
| 1 | <a href="#">SCI_OL__2PUDPA20110202_040601_000035993099_00105_46671_3131.N1</a> | 02FEB2011 04:06:01 | 02FEB2011 05:06:00 | 0        | GOOD        |
| 2 | <a href="#">SCI_OL__2PUDPA20110202_054615_000035843099_00106_46672_3133.N1</a> | 02FEB2011 05:46:15 | 02FEB2011 06:46:00 | 0        | GOOD        |
| 3 | <a href="#">SCI_OL__2PUDPA20110202_072629_000035993099_00107_46673_3132.N1</a> | 02FEB2011 07:26:29 | 02FEB2011 08:26:28 | 0        | GOOD        |
| 4 | <a href="#">SCI_OL__2PUDPA20110202_090642_000035843099_00108_46674_3136.N1</a> | 02FEB2011 09:06:42 | 02FEB2011 10:06:27 | 0        | GOOD        |

|    |  |                    |                    |   |      |
|----|--|--------------------|--------------------|---|------|
| 5  | SCI_OL__2PUDPA20110202_104656_000035993099_00109_46675_3137.N1 | 02FEB2011 10:46:56 | 02FEB2011 11:46:55 | 0 | GOOD |
| 6  | SCI_OL__2PUDPA20110202_122709_000035843099_00110_46676_3127.N1 | 02FEB2011 12:27:09 | 02FEB2011 13:26:54 | 0 | GOOD |
| 7  | SCI_OL__2PUDPA20110202_140723_000035993099_00111_46677_3128.N1 | 02FEB2011 14:07:23 | 02FEB2011 15:07:22 | 0 | GOOD |
| 8  | SCI_OL__2PUDPA20110202_154737_000035843099_00112_46678_3129.N1 | 02FEB2011 15:47:37 | 02FEB2011 16:47:21 | 0 | GOOD |
| 9  | SCI_OL__2PUDPA20110202_172901_000035433099_00113_46679_3130.N1 | 02FEB2011 17:29:01 | 02FEB2011 18:28:04 | 0 | GOOD |
| 10 | SCI_OL__2PUDPA20110202_190826_000035843099_00114_46680_3140.N1 | 02FEB2011 19:08:26 | 02FEB2011 20:08:11 | 0 | GOOD |
| 11 | SCI_OL__2PUDPA20110202_204817_000035993099_00115_46681_3138.N1 | 02FEB2011 20:48:17 | 02FEB2011 21:48:17 | 0 | GOOD |
| 12 | SCI_OL__2PUDPA20110202_222831_000035843099_00116_46682_3139.N1 | 02FEB2011 22:28:31 | 02FEB2011 23:28:16 | 0 | GOOD |
| 13 | SCI_OL__2PUDPA20110203_000845_000035993099_00117_46683_3142.N1 | 03FEB2011 00:08:45 | 03FEB2011 01:08:44 | 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: 146893

Total number of cloud data DSRs with good quality flag (=0): 146893 (100.0 %)

| Parameter         | #valid | Mean     | Median   | Min      | Max      | Stddev   | Unit  |
|-------------------|--------|----------|----------|----------|----------|----------|-------|
| QUALITY_FLAG      | 146893 | 0.0000   | 0.0000   | 0.0000   | 0.0000   | 0.0000   | flag  |
| INTEGR_TIME       | 146893 | 0.16305  | 0.12500  | 0.12500  | 0.25000  | 0.057521 | s     |
| CL_FRAC           | 146893 | 0.44632  | 0.44393  | 0.0000   | 1.0000   | 0.29279  | -     |
| CL_FRAC_ERR       | 146893 | 0.0000   | 0.0000   | 0.0000   | 0.0000   | 0.0000   | %     |
| PMD_READ          | 146893 | 5.2178   | 4.0000   | 4.0000   | 8.0000   | 1.8407   |       |
| PMD_READ_CL[0]    | 146893 | 0.41933  | 0.0000   | 0.0000   | 8.0000   | 1.1801   | -     |
| PMD_READ_CL[1]    | 146893 | 1.0382   | 0.0000   | 0.0000   | 8.0000   | 2.3841   | -     |
| CL_TOP_HEIGHT     | 114247 | 3.9336   | 3.0140   | 0.0000   | 17.000   | 3.5945   | km    |
| CL_TOP_HEIGHT_ERR | 0      | ---      | ---      | ---      | ---      | ---      | ---   |
| CL_OPT_DEPTH      | 114247 | 59.968   | 65.446   | 0.0000   | 101.00   | 40.714   | km    |
| CL_OPT_DEPTH_ERR  | 0      | ---      | ---      | ---      | ---      | ---      | ---   |
| CL_TYPE_FLAGS     | 146893 | 11100000 | 11100000 | 11100000 | 11100000 | 0.0000   | flags |
| CLOUD_FLAGS       | 146893 | 11001100 | 11000100 | 11000000 | 11100000 | 3483.9   | flags |
| AERO_ABSO_IND     | 146893 | 0.43274  | 0.0000   | 0.0000   | 5.1273   | 0.76822  |       |
| AERO_IND_DIAG     | 146893 | 0.0000   | 0.0000   | 0.0000   | 0.0000   | 0.0000   |       |
| AERO_FLAGS        | 146893 | 01001111 | 00000000 | 00000000 | 11000000 | 24189.   | flags |

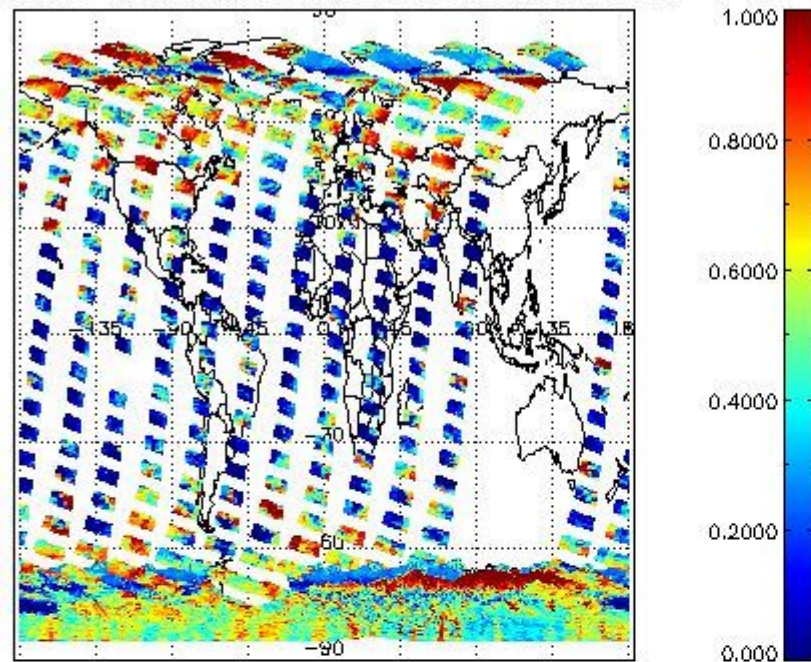
#### Time and geolocation plots:

Plots are available for the following parameters:

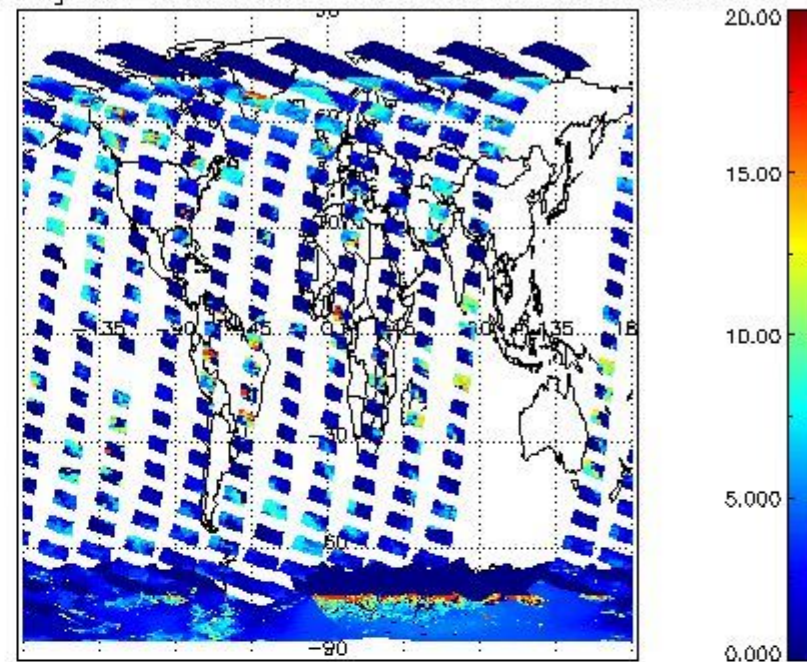
| Number | Data item ID  |
|--------|---------------|
| 0      | cl_frac       |
| 1      | cl_top_height |
| 2      | cl_opt_depth  |
| 3      | cloud_flags   |



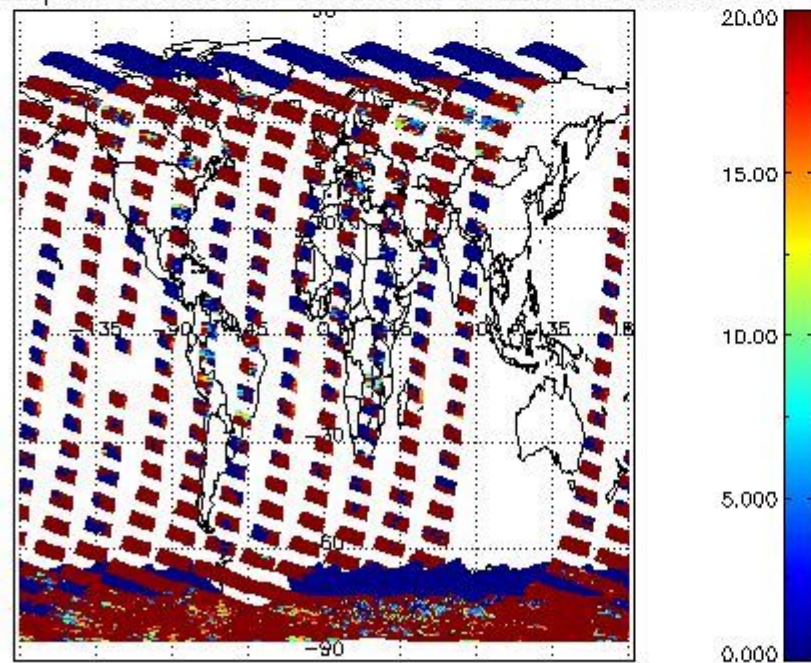
cL\_frae for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



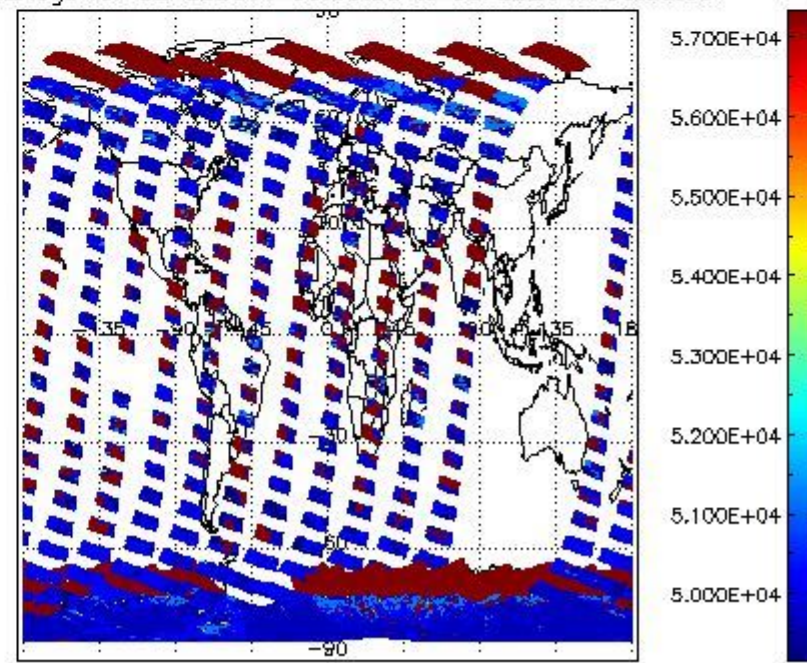
cL\_top\_height for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



cL\_opt\_depth for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



cloud\_flags for 02FEB2011 00:00:00 to 03FEB2011 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:

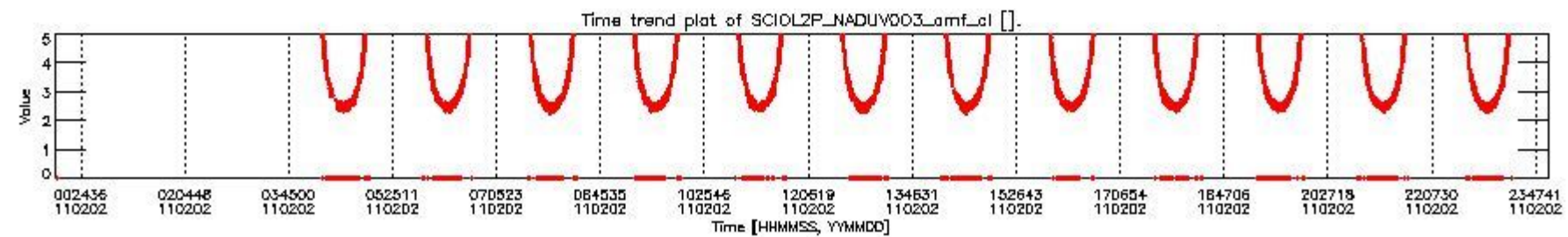
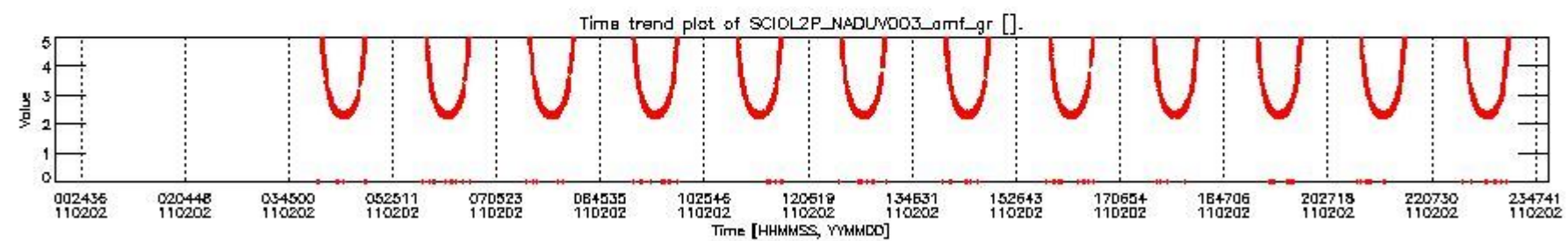
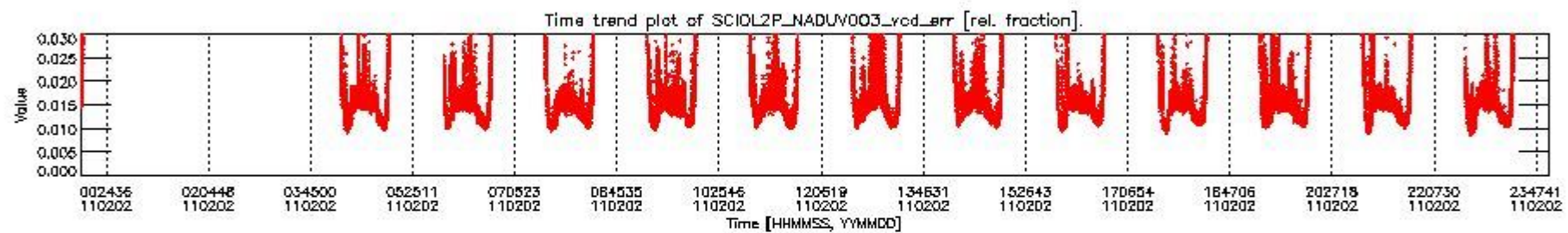
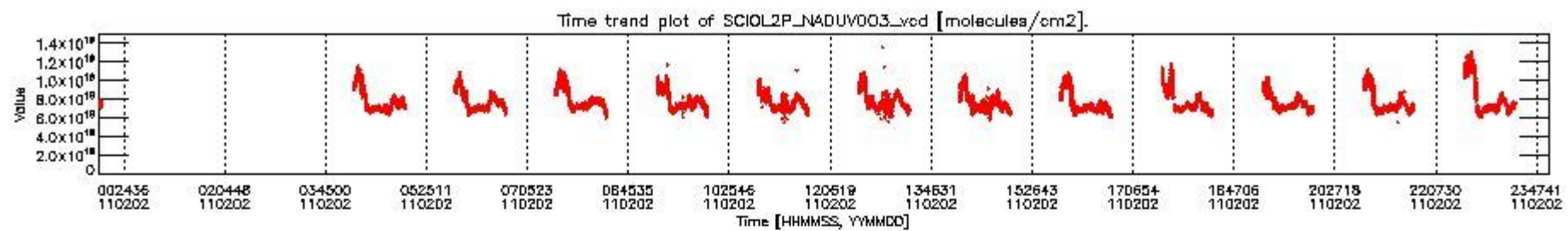
| Number | Data item ID             |
|--------|--------------------------|
| 0      | SCIOL2P_NADUV003_vcd     |
| 1      | SCIOL2P_NADUV003_vcd_err |
| 2      | SCIOL2P_NADUV003_amf_gr  |

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

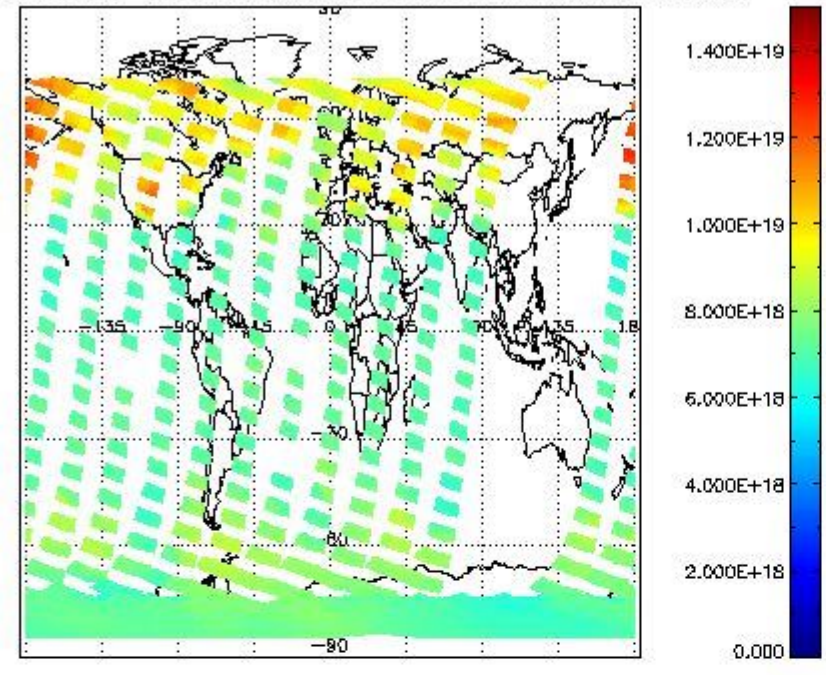
#### [2.2.2.1 O3 \(UV0\)](#)



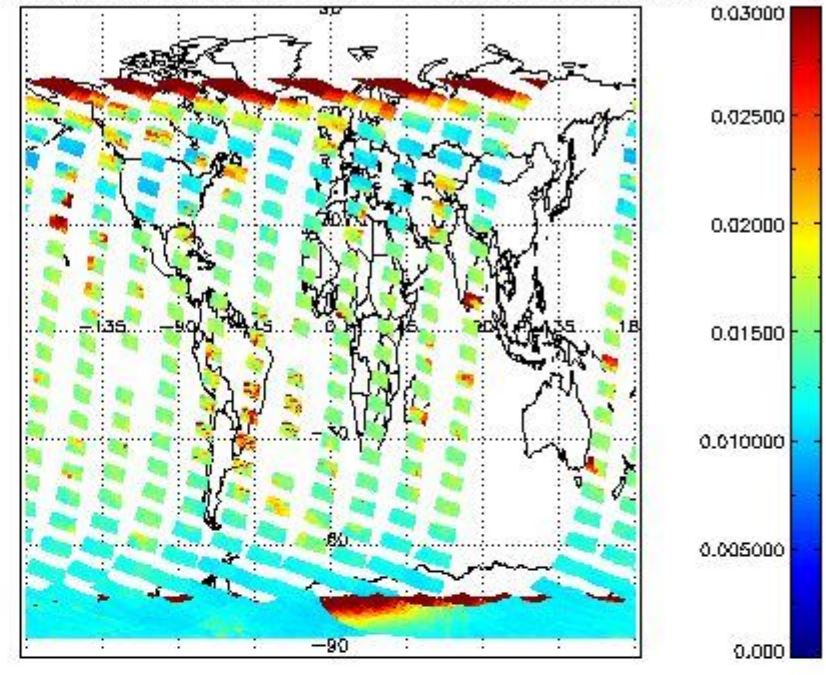




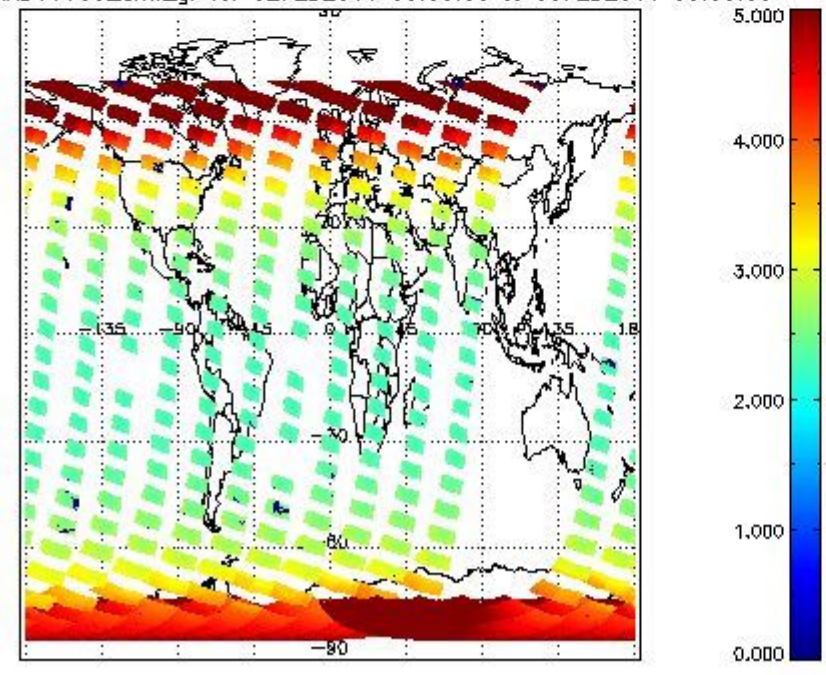
SCIOL2P\_NADUV003\_vcd for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



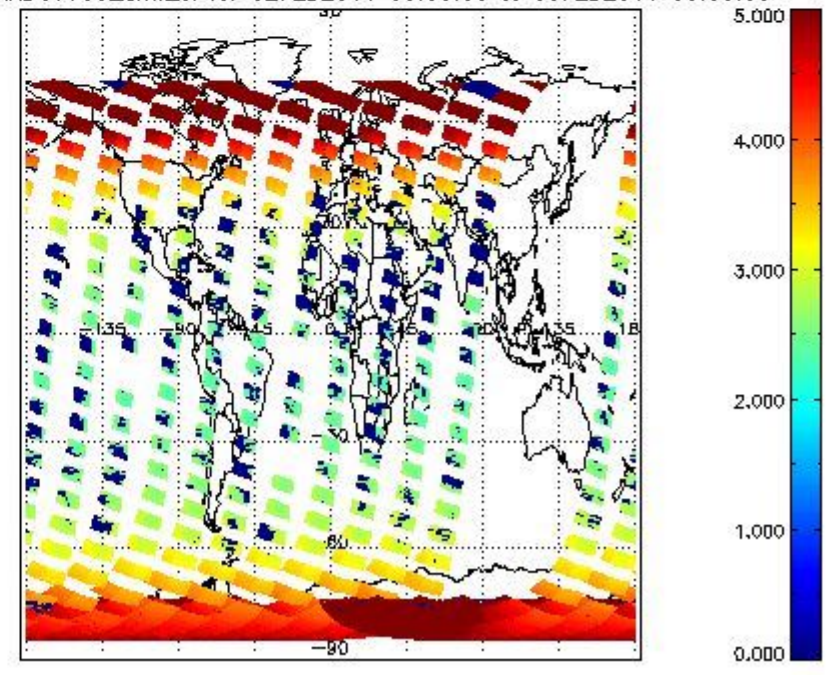
SCIOL2P\_NADUV003\_vcd\_err for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



SCIOL2P\_NADUV003\_amf\_gr for 02FEB2011 00:00:00 to 03FEB2011 00:00:00

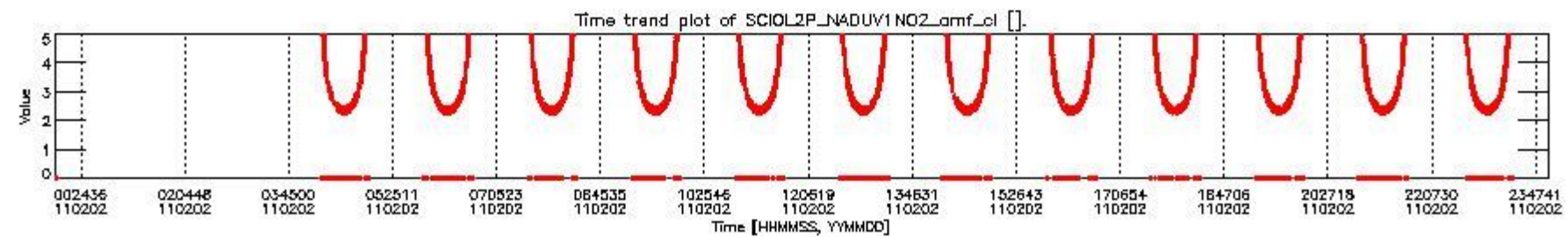
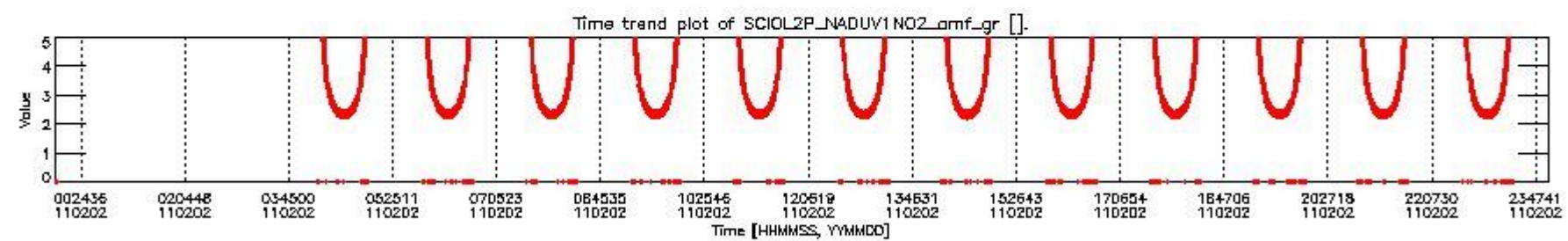
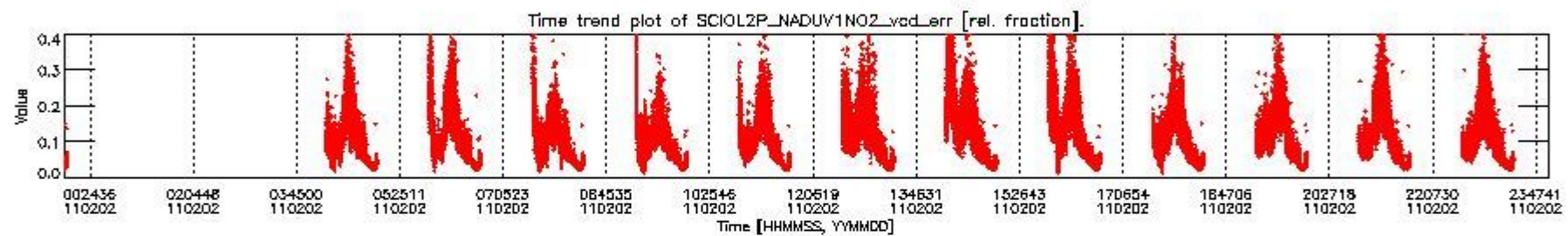
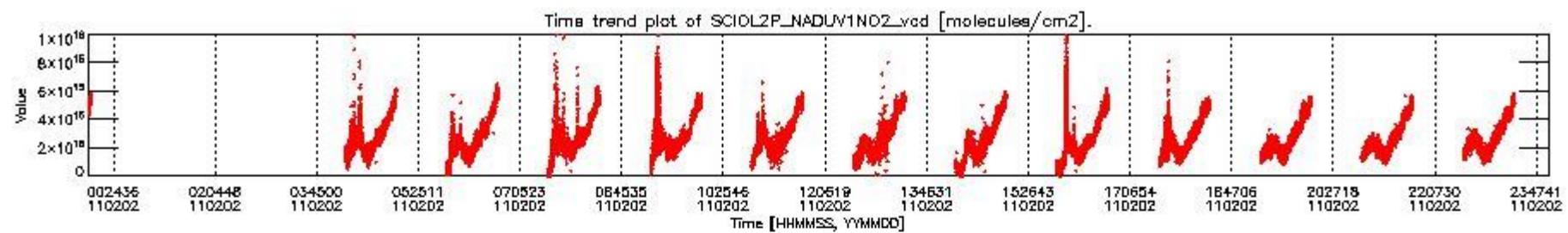


SCIOL2P\_NADUV003\_amf\_cl for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



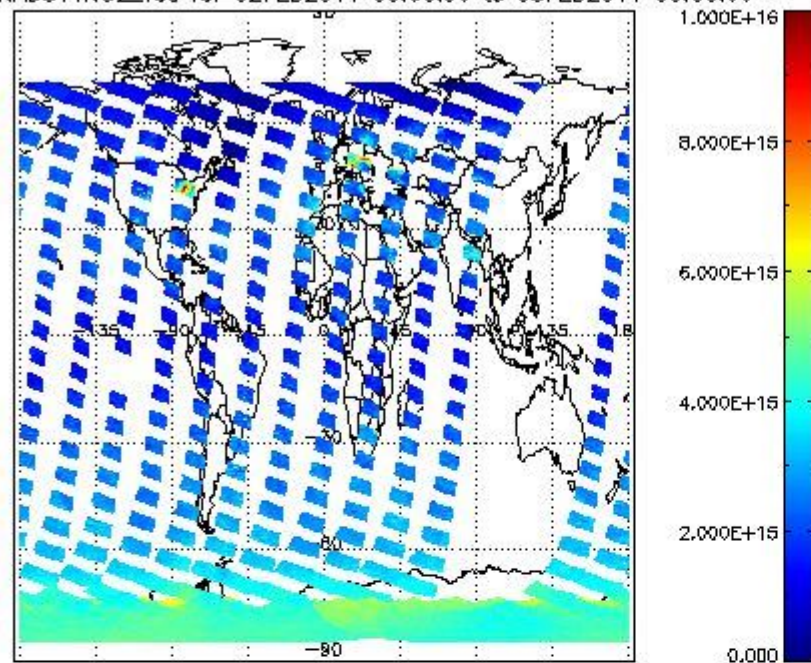
2.2.2.2 NO2 (UV1)



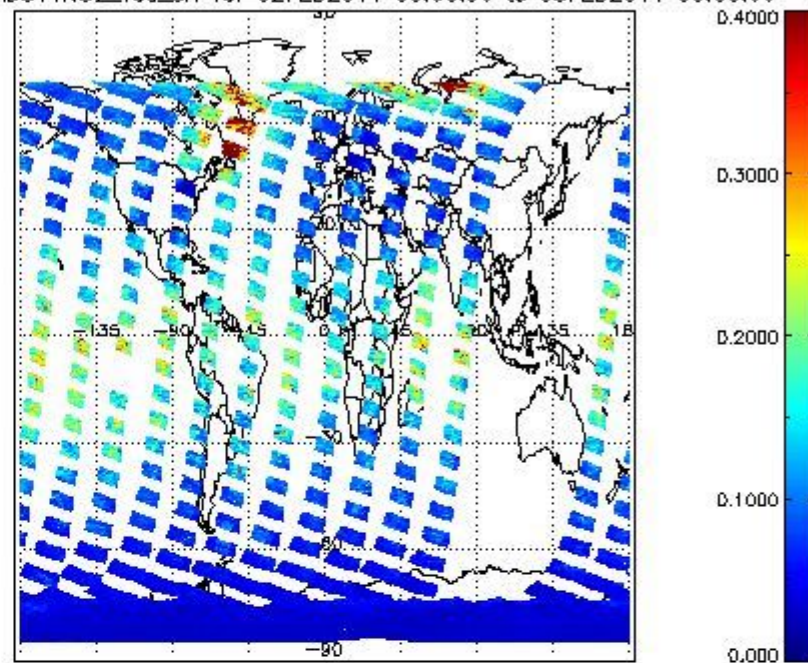




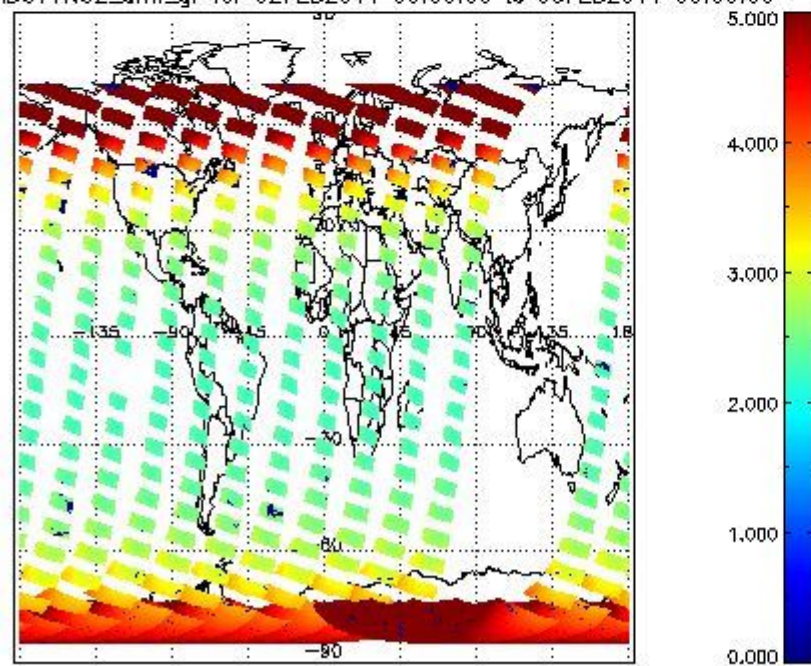
SCIOL2P\_NADUV1N02\_vcd for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



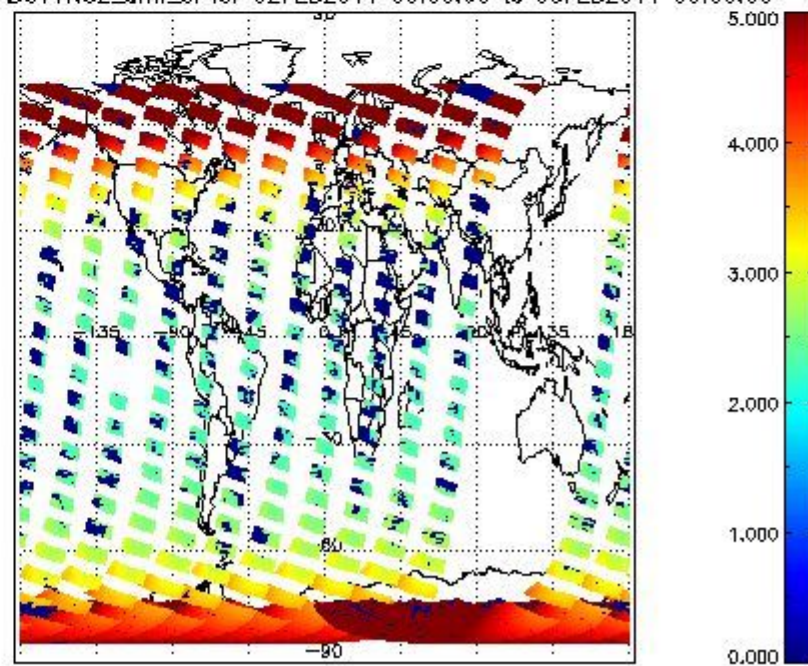
SCIOL2P\_NADUV1N02\_vcd\_err for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



SCIOL2P\_NADUV1N02\_amf\_gr for 02FEB2011 00:00:00 to 03FEB2011 00:00:00

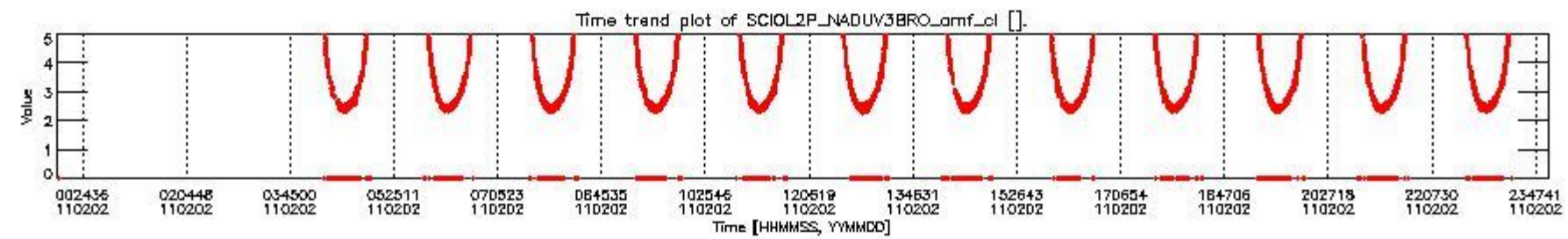
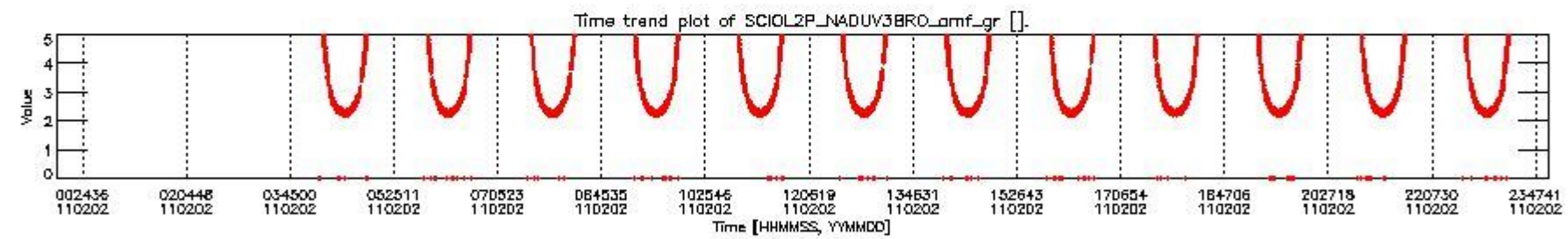
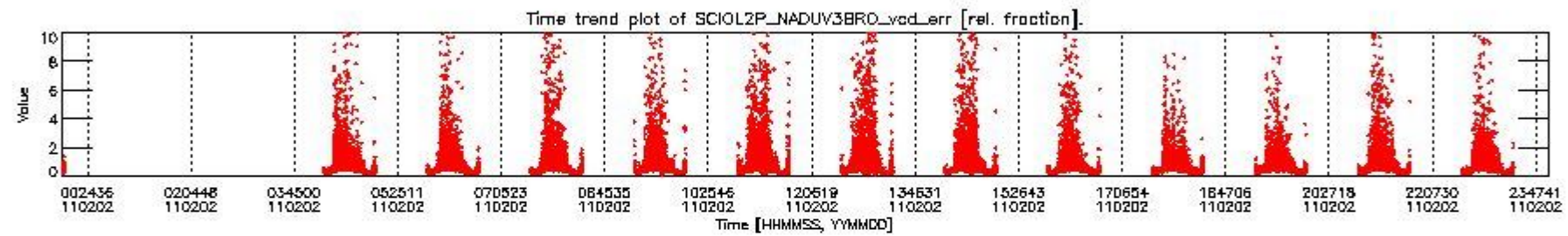
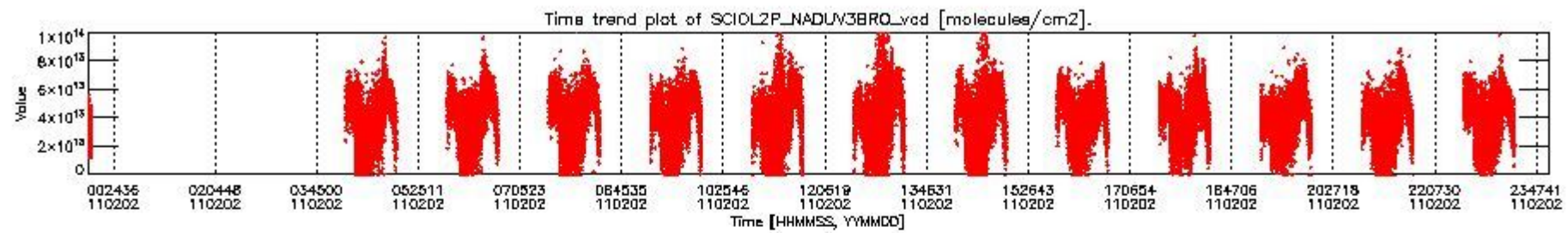


SCIOL2P\_NADUV1N02\_amf\_cl for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



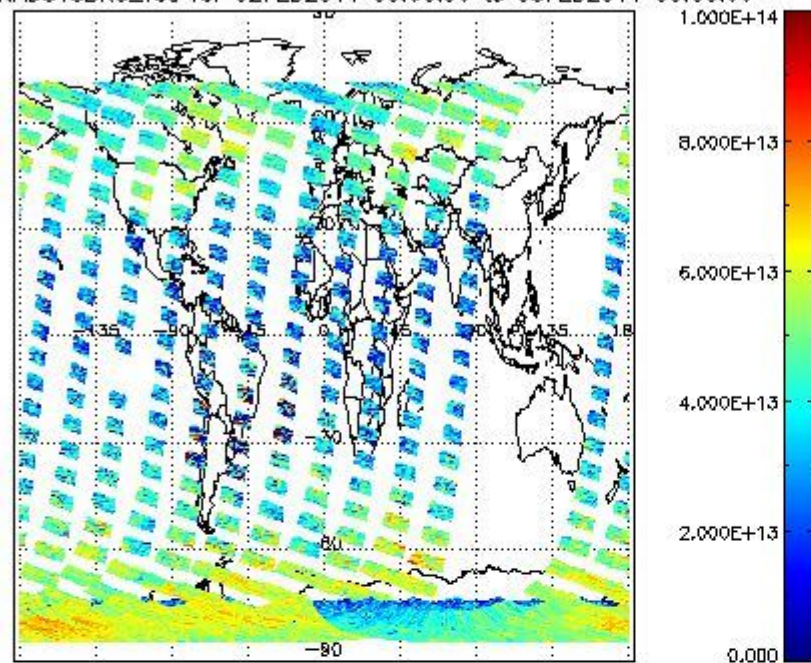
2.2.2.3 BrO (UV3)



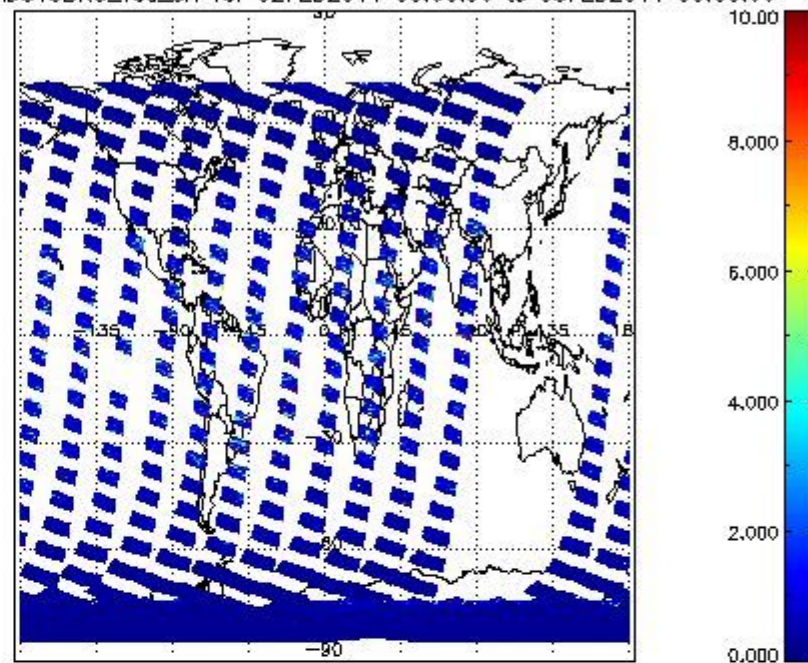




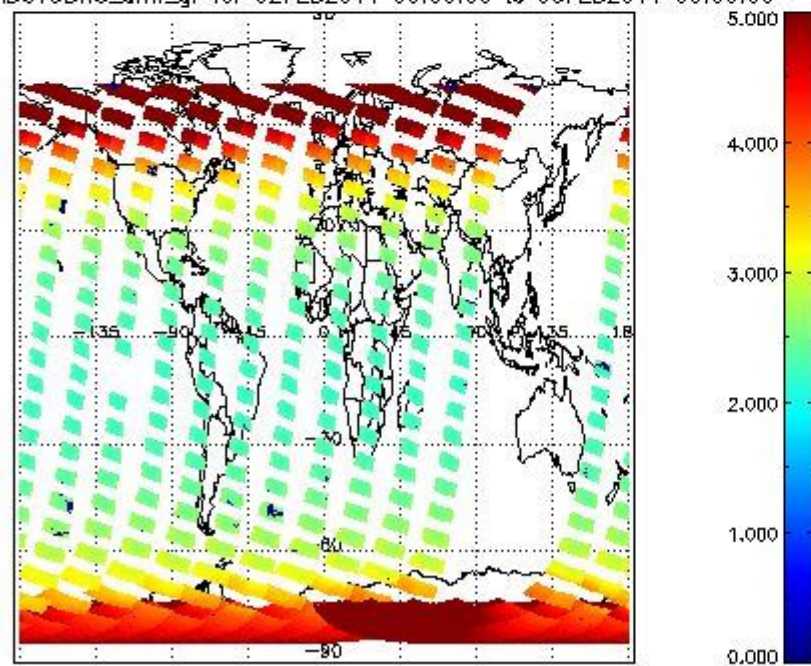
SCIOL2P\_NADUV3BRO\_vcd for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



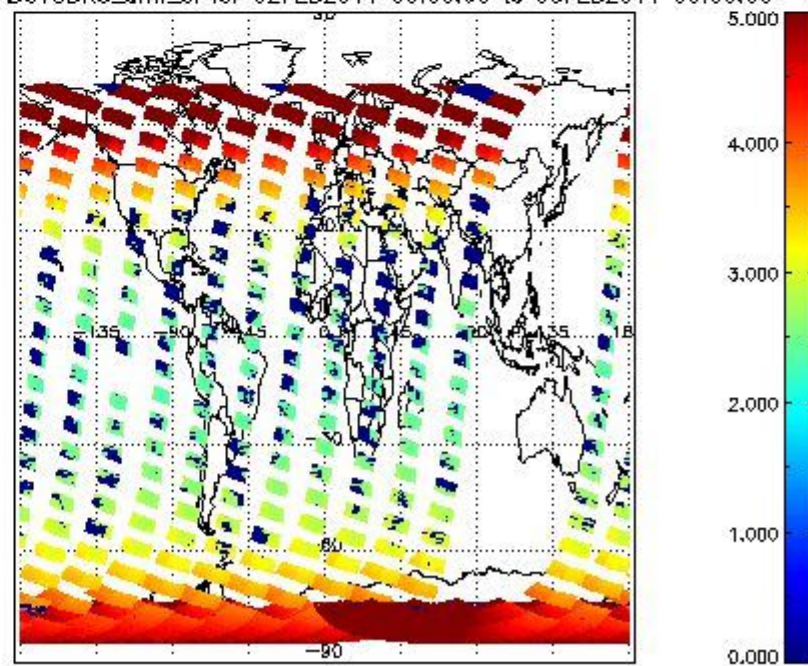
SCIOL2P\_NADUV3BRO\_vcd\_err for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



SCIOL2P\_NADUV3BRO\_amf\_gr for 02FEB2011 00:00:00 to 03FEB2011 00:00:00

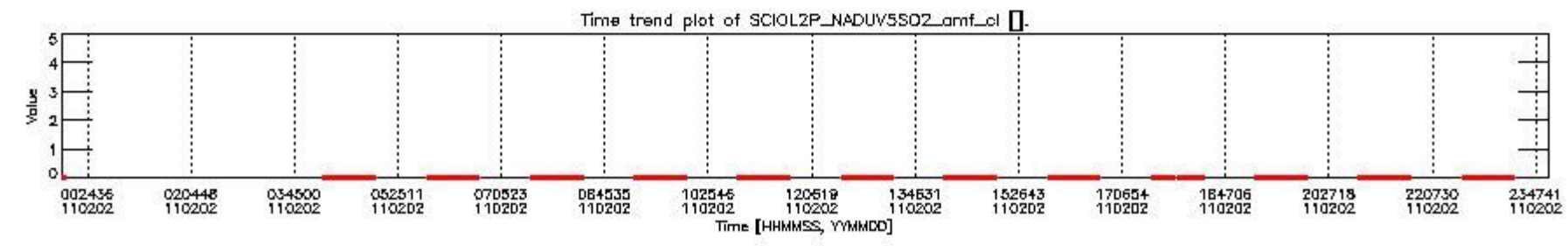
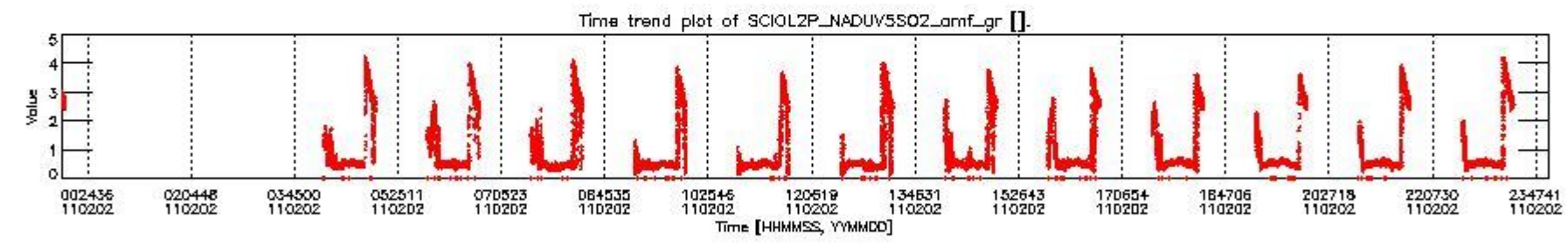
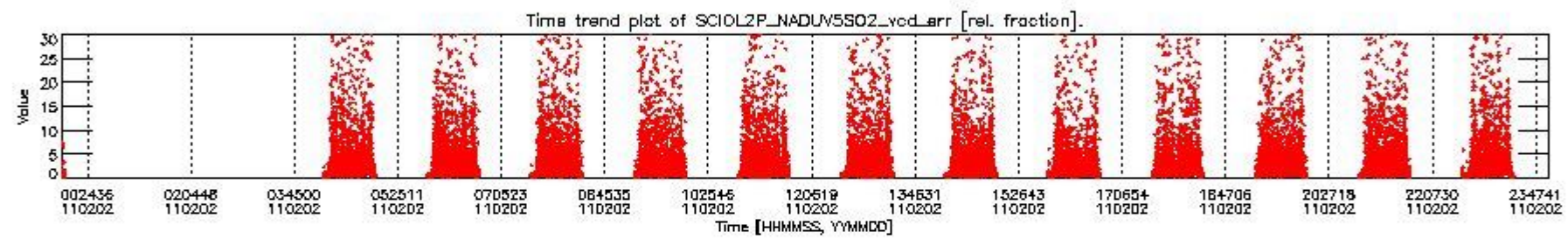
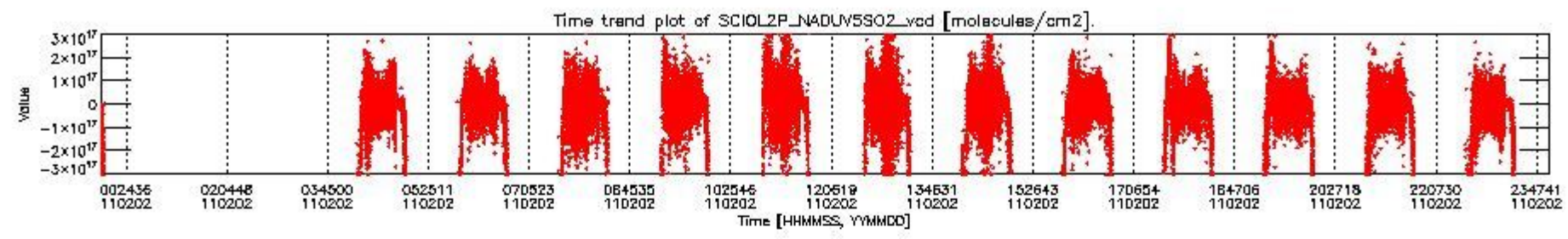


SCIOL2P\_NADUV3BRO\_amf\_cl for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



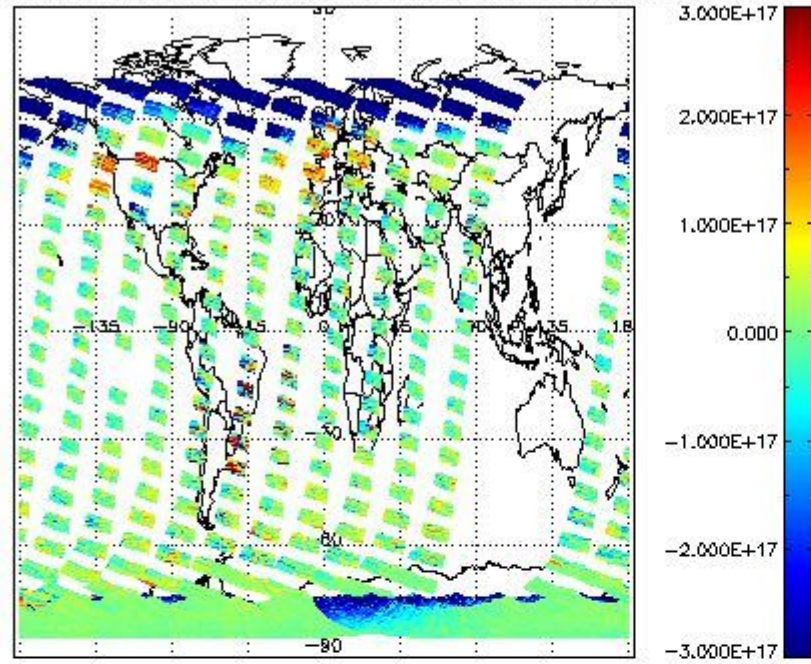
2.2.2.4 SO2 (UV5)



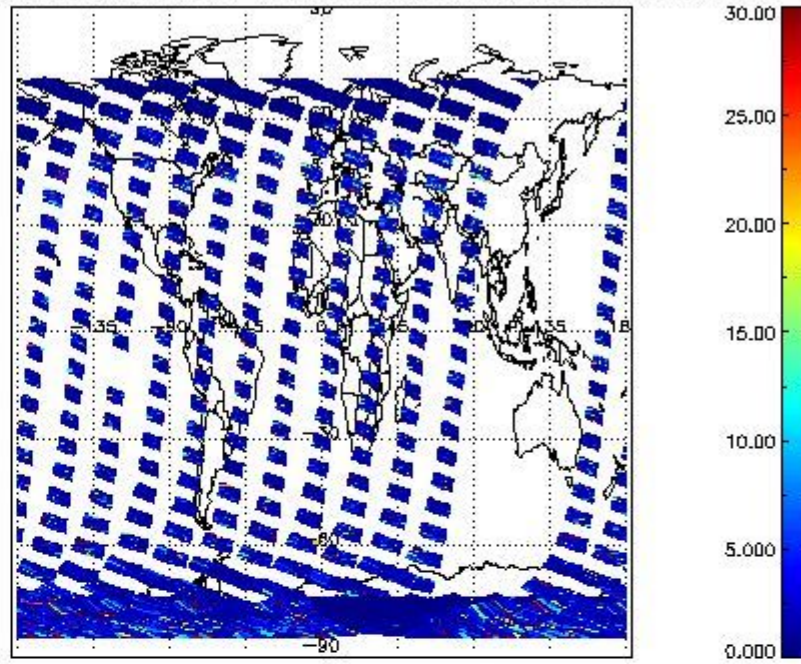




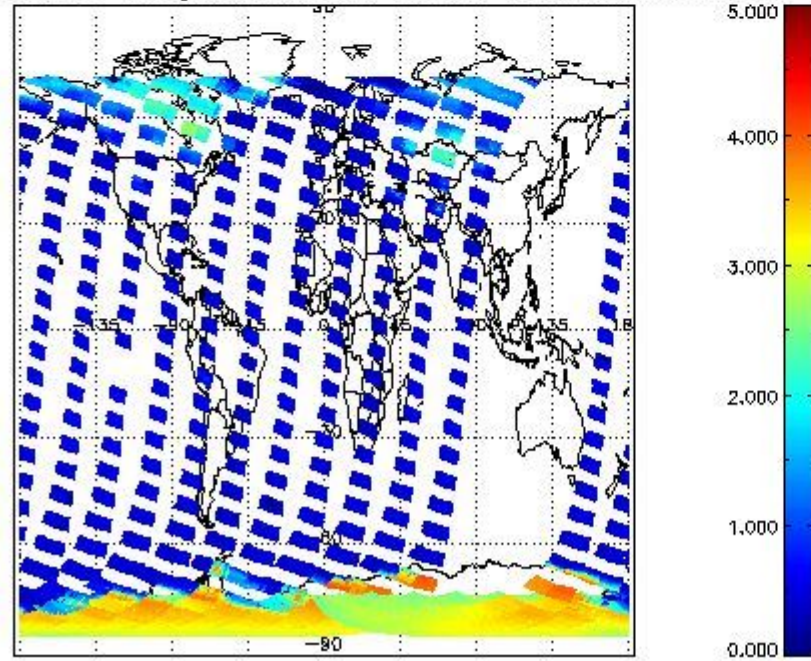
SCIOL2P\_NADUV5S02\_vcd for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



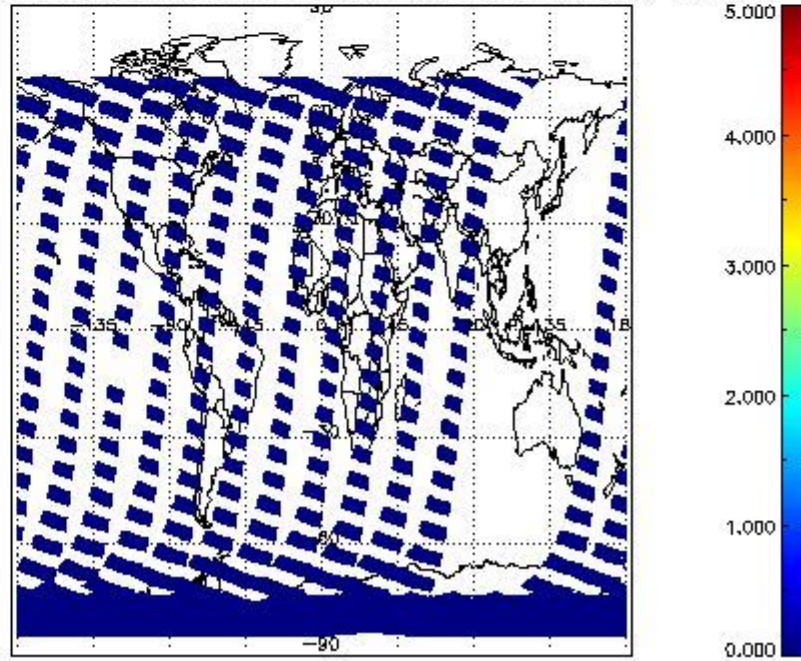
SCIOL2P\_NADUV5S02\_vcd\_err for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



SCIOL2P\_NADUV5S02\_amf\_gr for 02FEB2011 00:00:00 to 03FEB2011 00:00:00

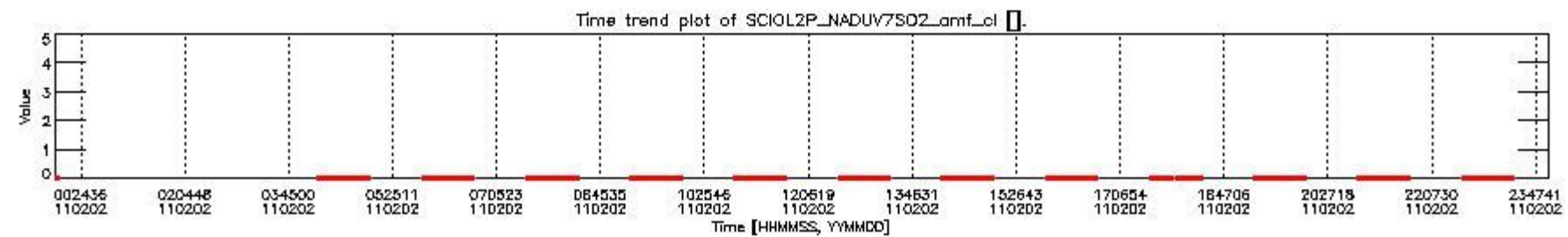
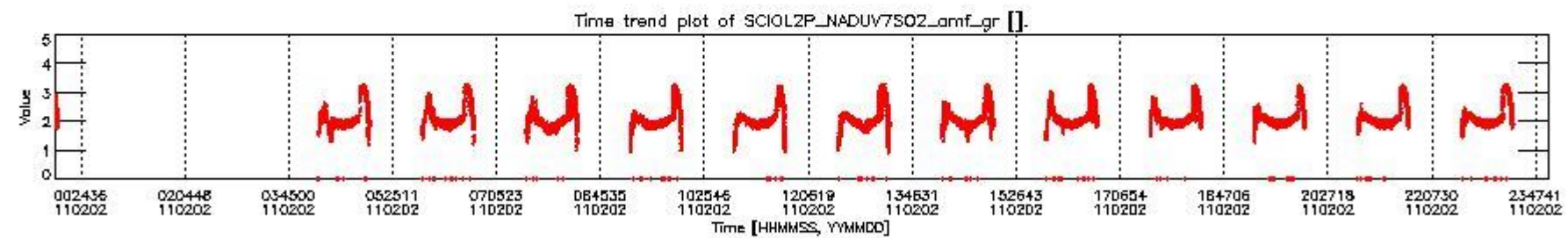
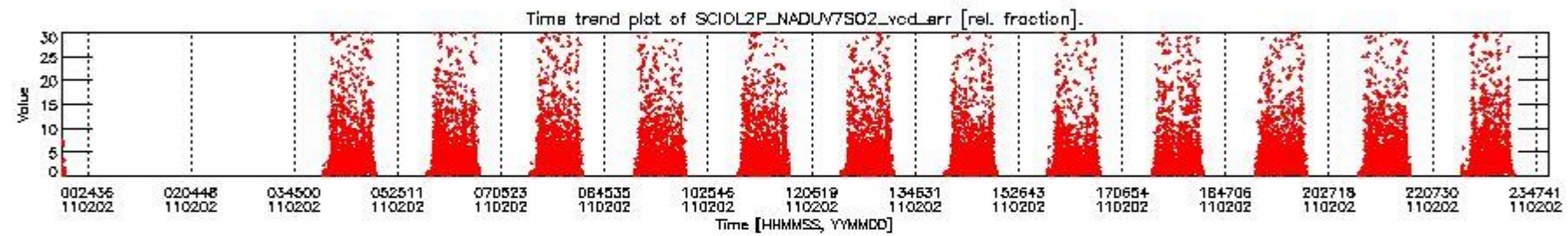
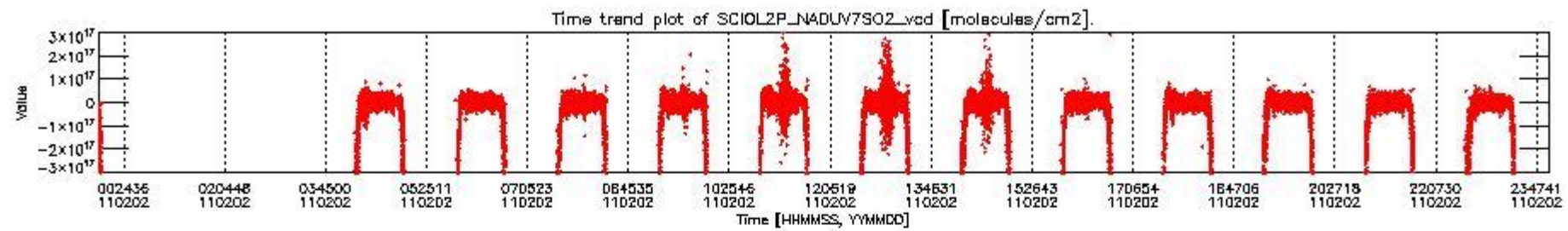


SCIOL2P\_NADUV5S02\_amf\_cl for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



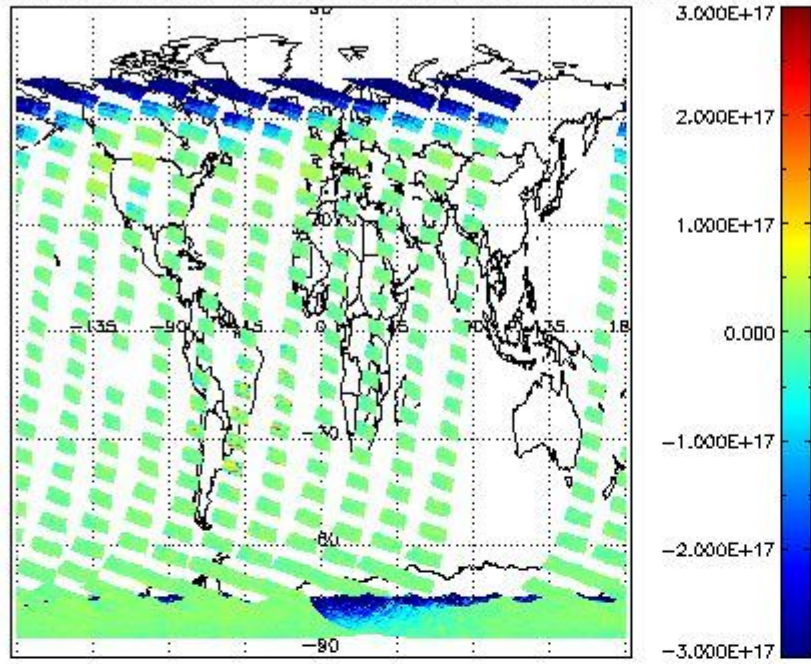
2.2.2.5 SO2 (UV7)



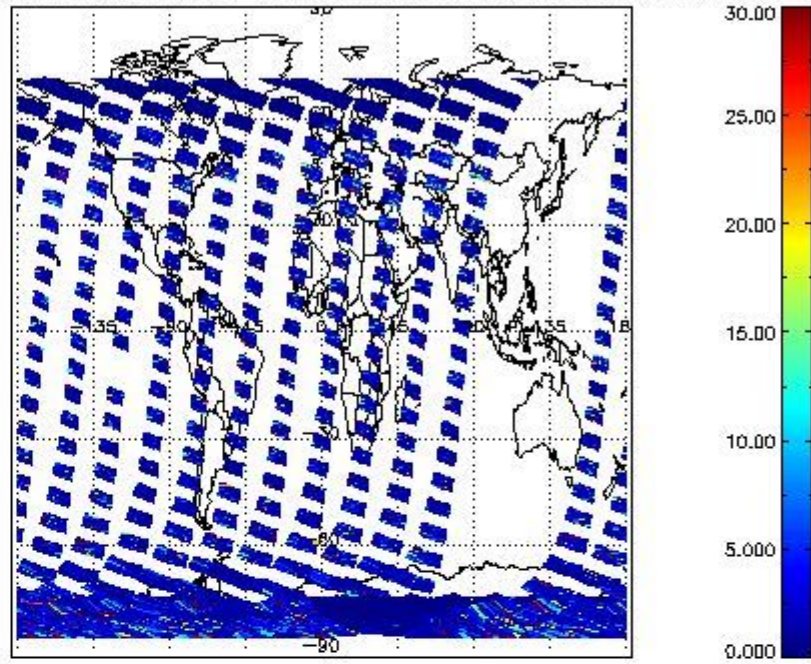




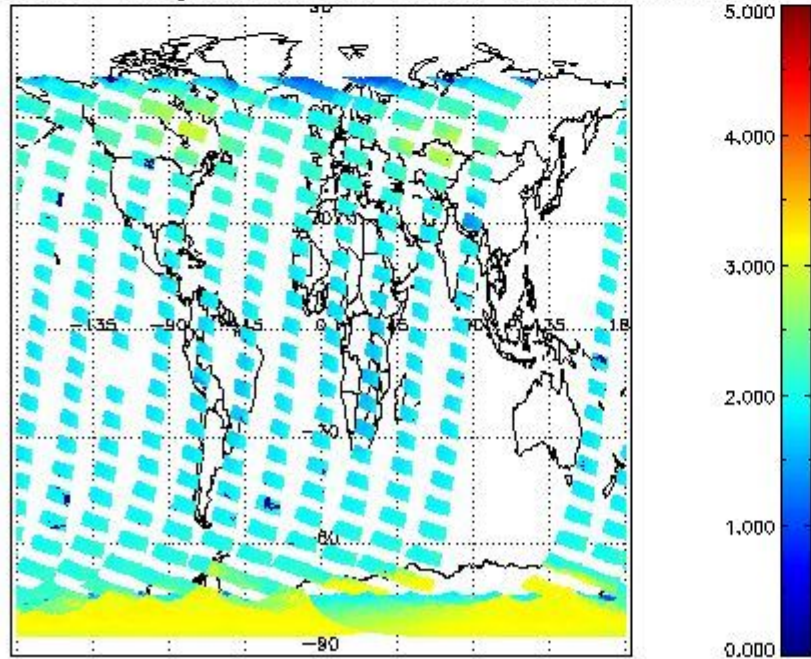
SCIOL2P\_NADUV7S02\_vcd for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



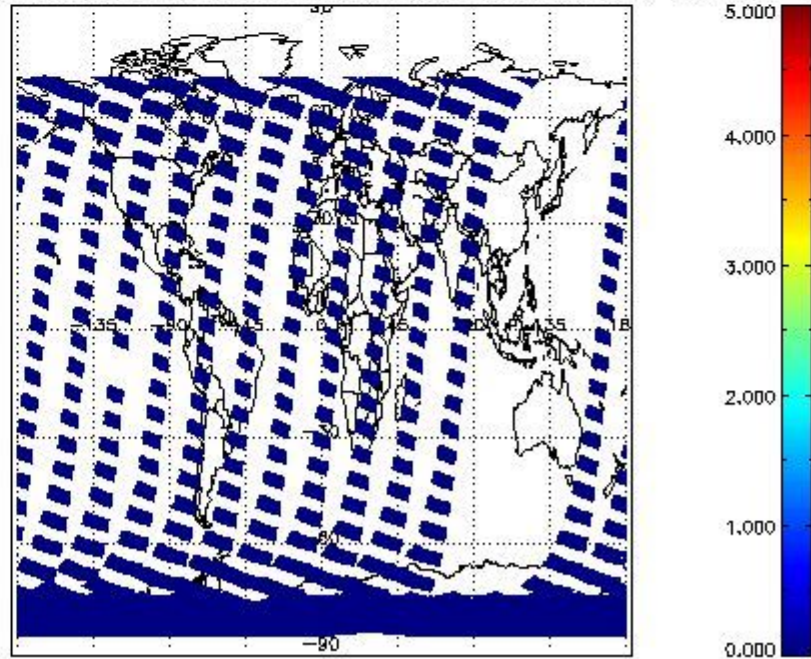
SCIOL2P\_NADUV7S02\_vcd\_err for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



SCIOL2P\_NADUV7S02\_amf\_gr for 02FEB2011 00:00:00 to 03FEB2011 00:00:00

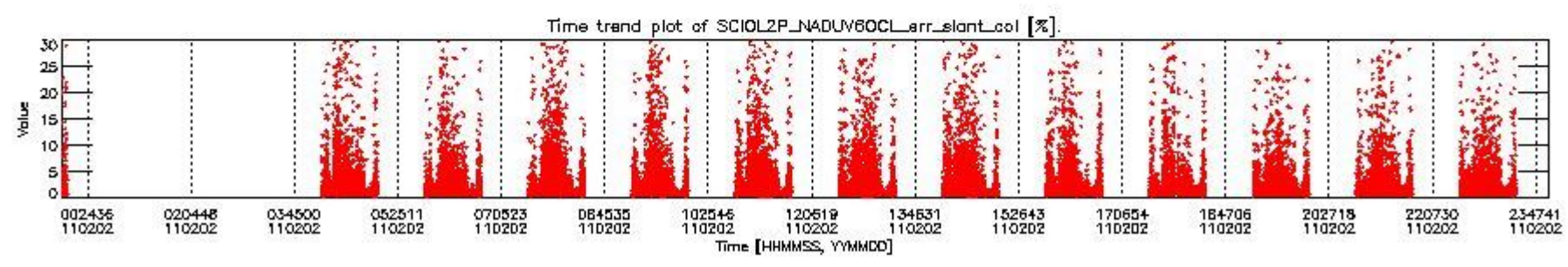
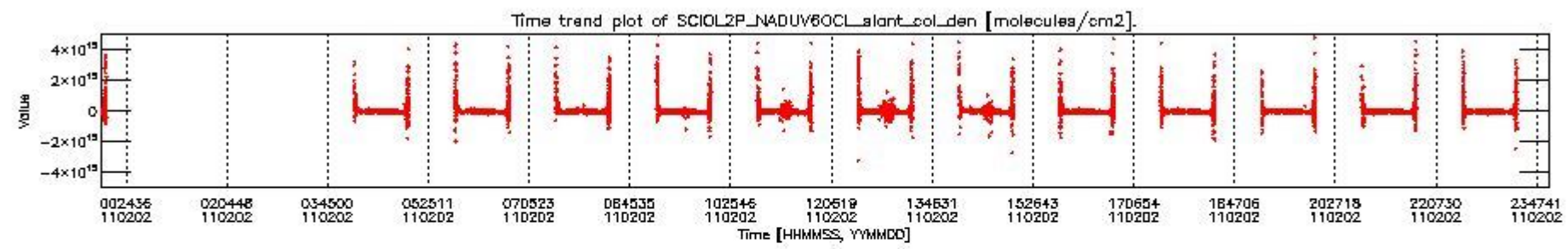


SCIOL2P\_NADUV7S02\_amf\_cl for 02FEB2011 00:00:00 to 03FEB2011 00:00:00

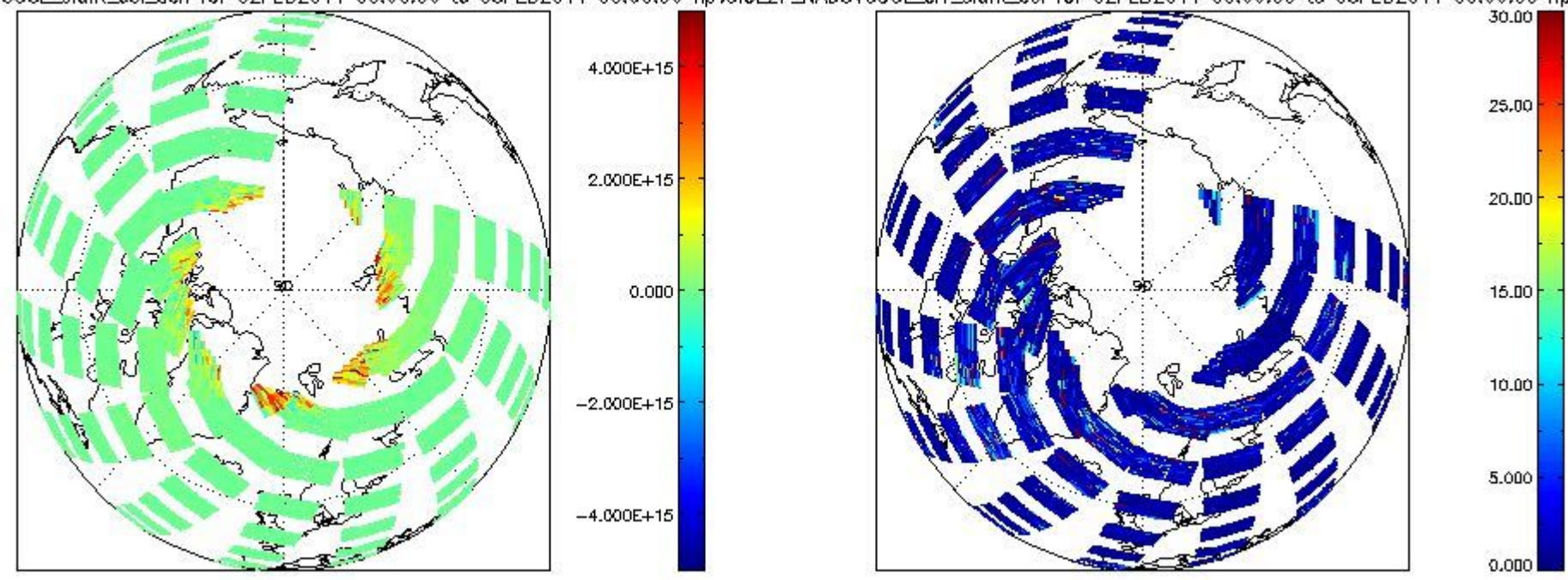


2.2.2.6 OCIO (UV6)



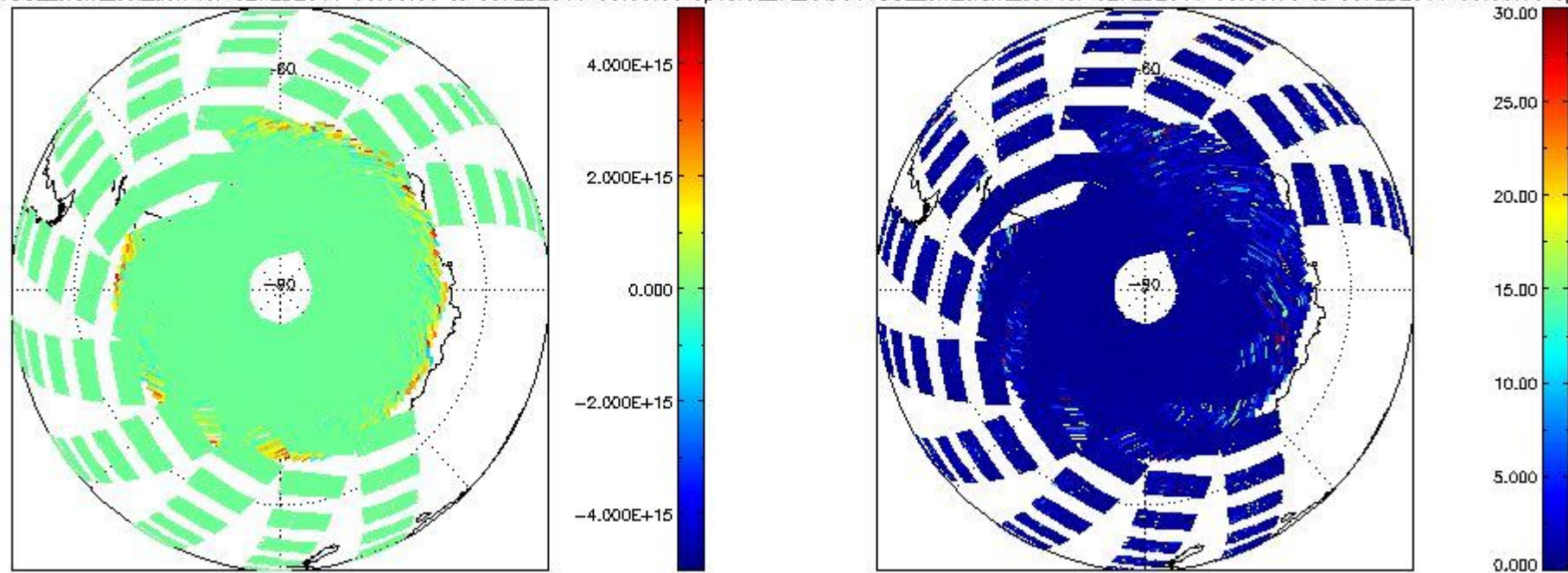


CIOL2P\_NADUV60CL\_slant\_col\_den for 02FEB2011 00:00:00 to 03FEB2011 00:00:00 np; CIOL2P\_NADUV60CL\_err\_slant\_col for 02FEB2011 00:00:00 to 03FEB2011 00:00:00 np

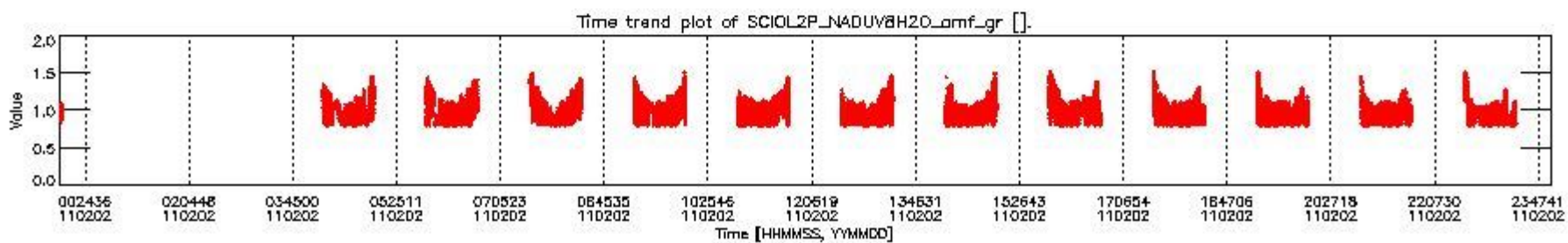
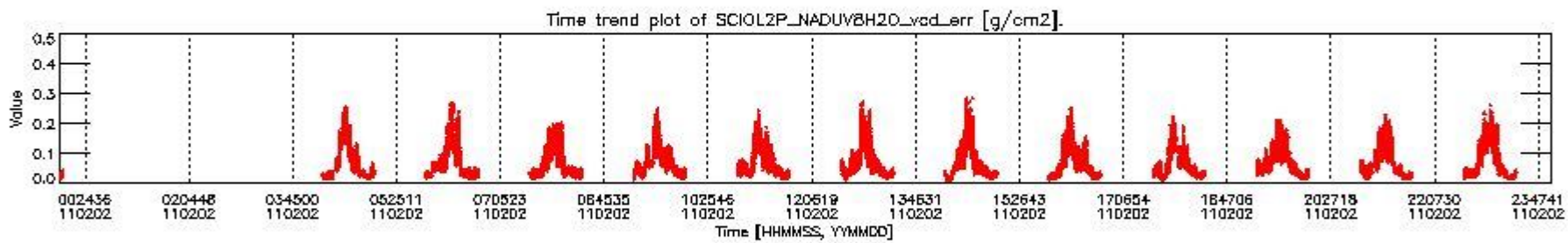
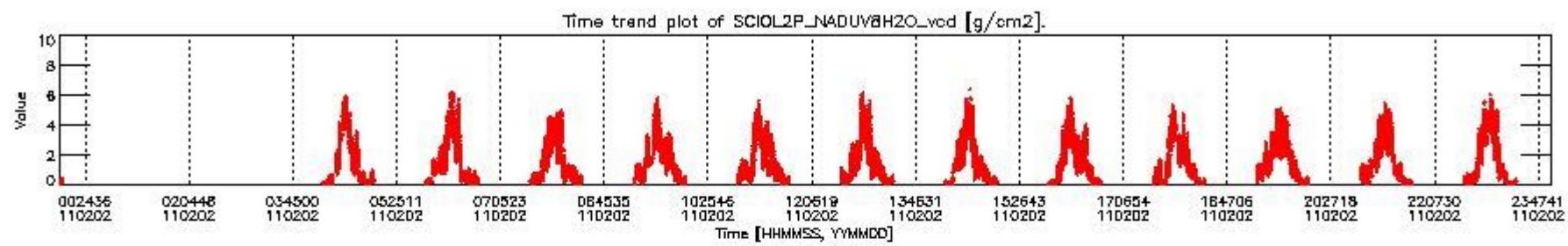




CIOL2P\_NADUV60CL\_slant\_col\_den for 02FEB2011 00:00:00 to 03FEB2011 00:00:00 sp; CIOL2P\_NADUV60CL\_err\_slant\_col for 02FEB2011 00:00:00 to 03FEB2011 00:00:00 sp

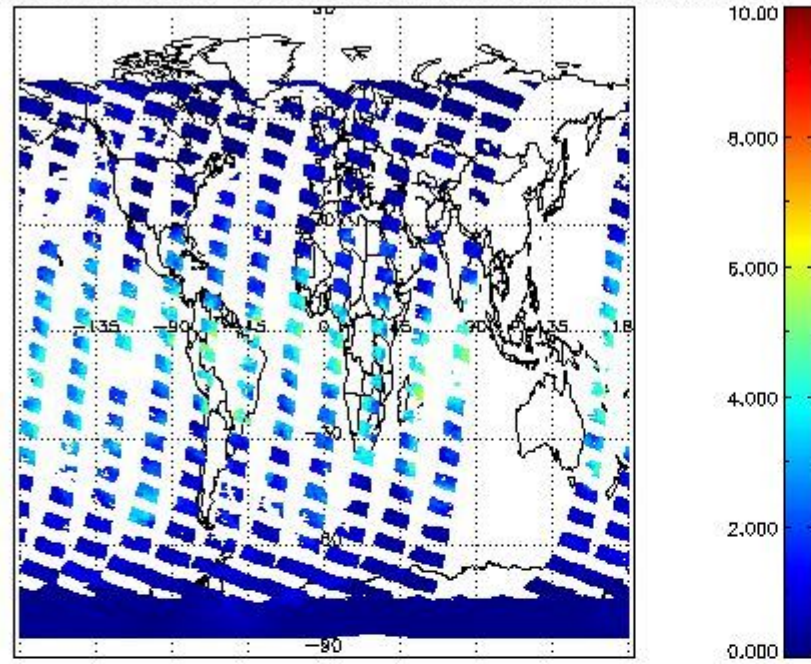


### 2.2.2.7 H2O (UV8)

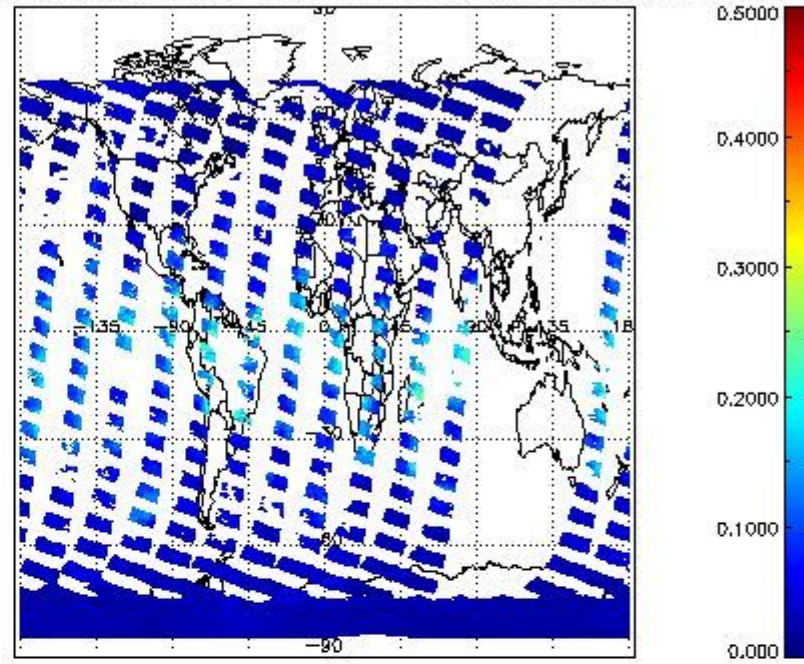




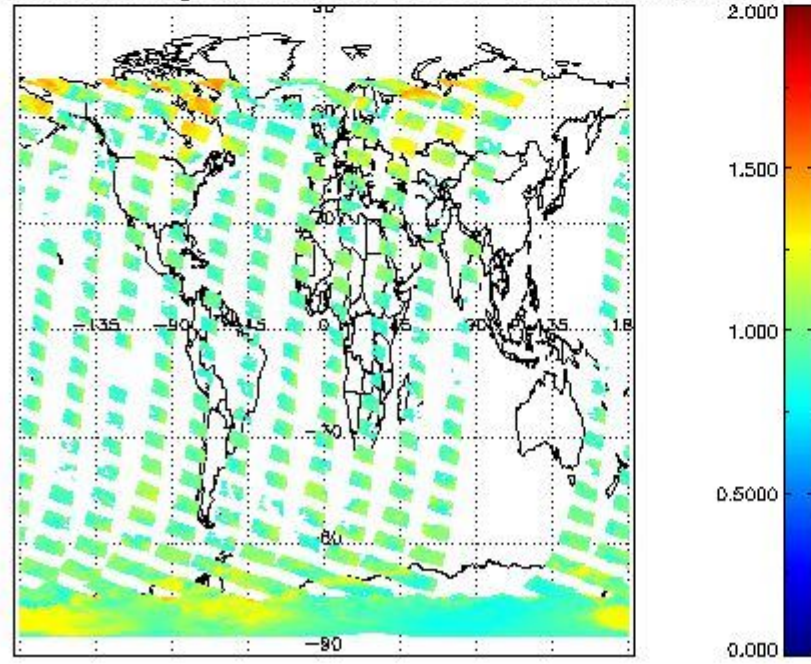
SCIOL2P\_NADUV6H2O\_vcd for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



SCIOL2P\_NADUV6H2O\_vcd\_err for 02FEB2011 00:00:00 to 03FEB2011 00:00:00

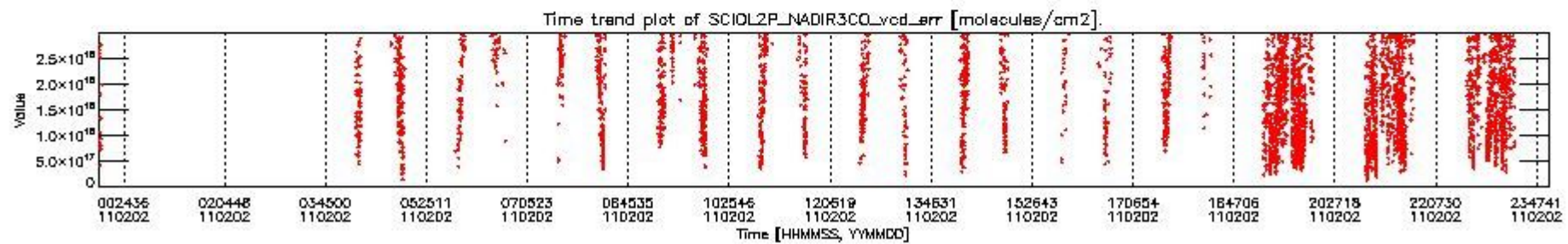
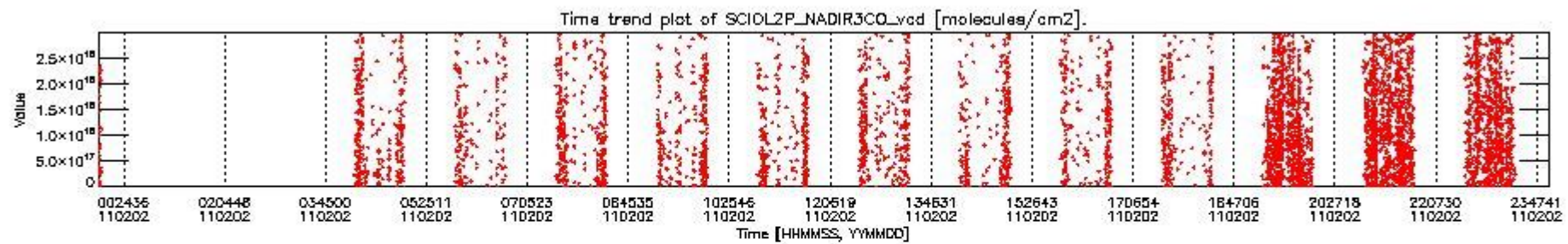


SCIOL2P\_NADUV6H2O\_amf\_gr for 02FEB2011 00:00:00 to 03FEB2011 00:00:00

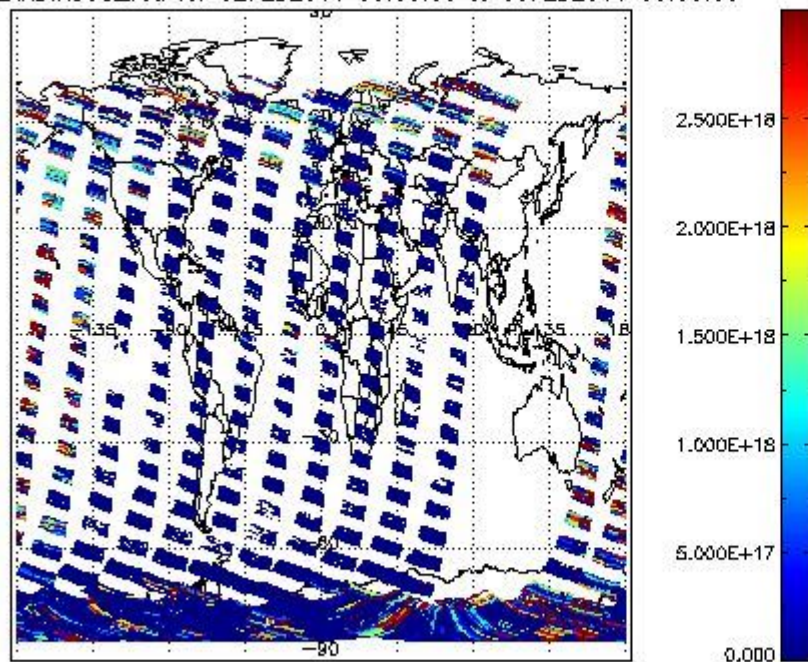


### 2.2.2.8 CO (IR3)

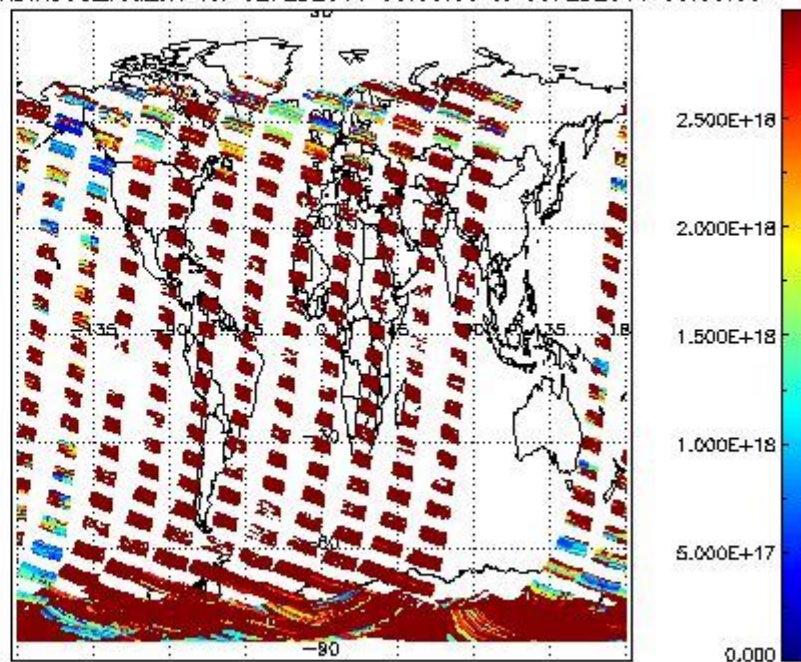




SCIDL2P\_NADIR3CO\_vcd for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



SCIDL2P\_NADIR3CO\_vcd\_err for 02FEB2011 00:00:00 to 03FEB2011 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.

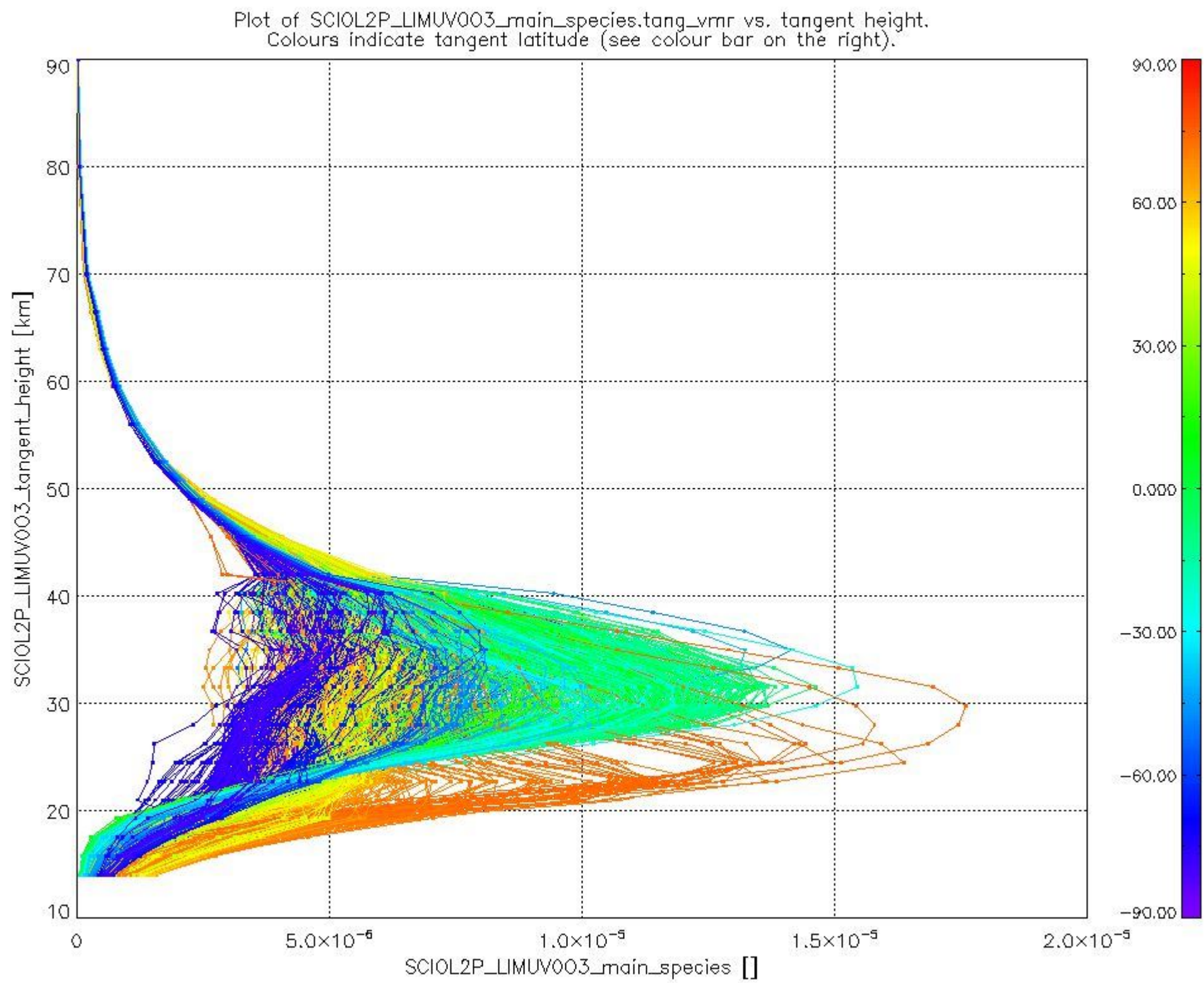
The following data items are currently included into this section:

| Number | Data item ID                   |
|--------|--------------------------------|
| 0      | SCIDL2P_LIMUV003_main_species  |
| 1      | SCIDL2P_LIMUV1NO2_main_species |
| 2      | SCIDL2P_LIMUV3BRO_main_species |



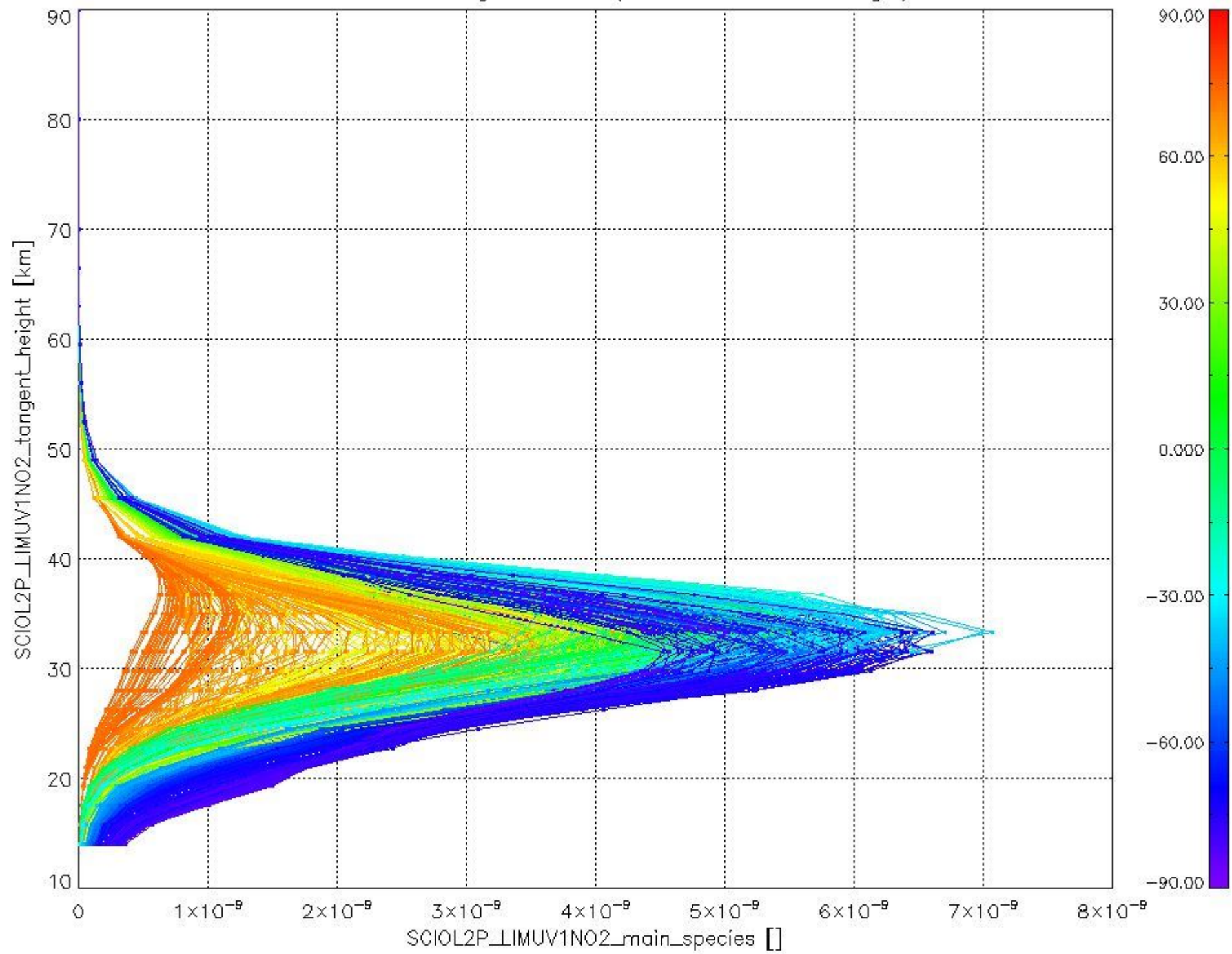
The following plots show for each species the tangent volume mixing ratio vs. tangent height. Colours indicate tangent latitude.

### 2.2.3.1 O3 (UV0)



### 2.2.3.2 NO2 (UV1)

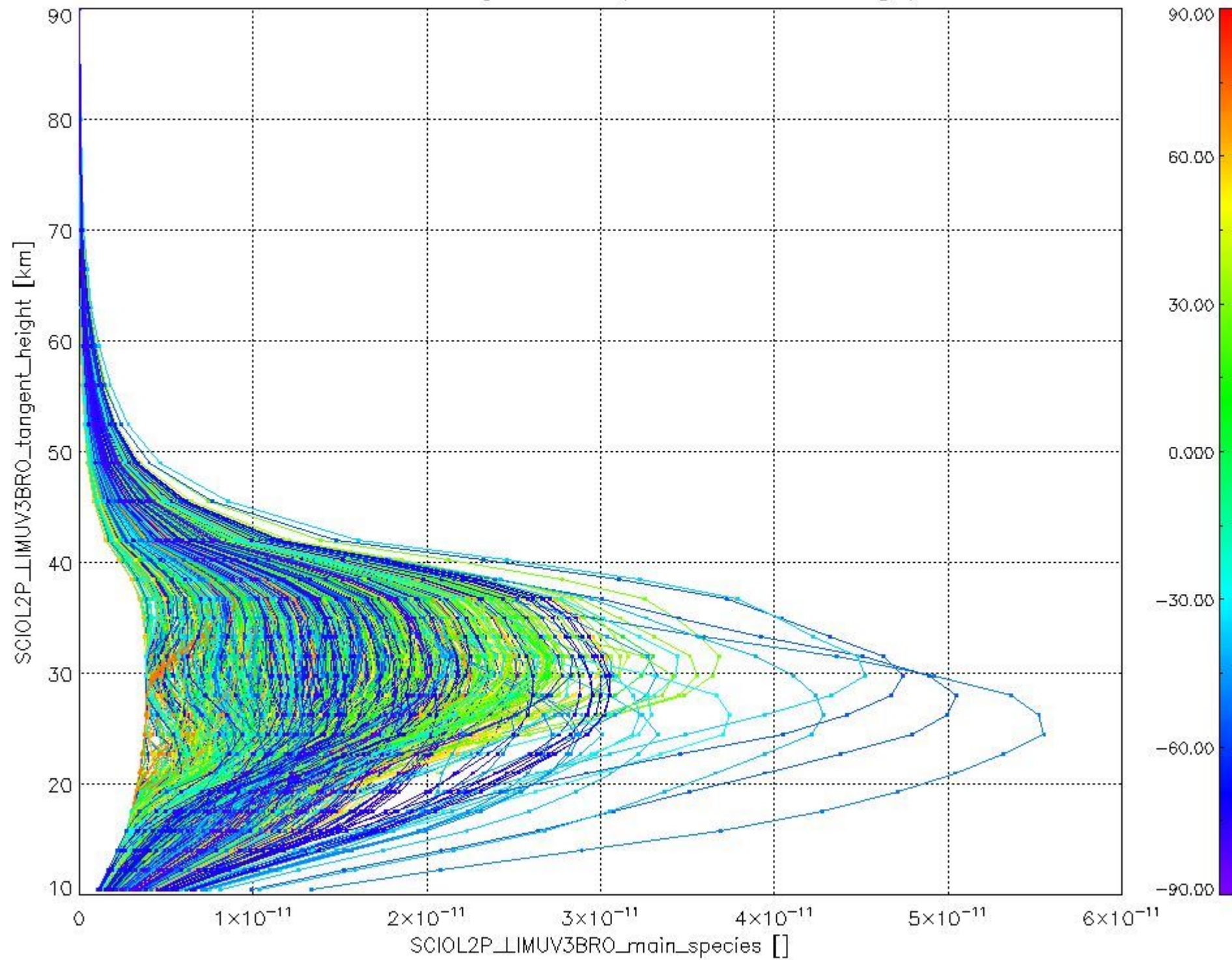
Plot of SCIOL2P\_LIMUV1NO2\_main\_species.tang\_vmr vs. tangent height.  
 Colours indicate tangent latitude (see colour bar on the right).



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).



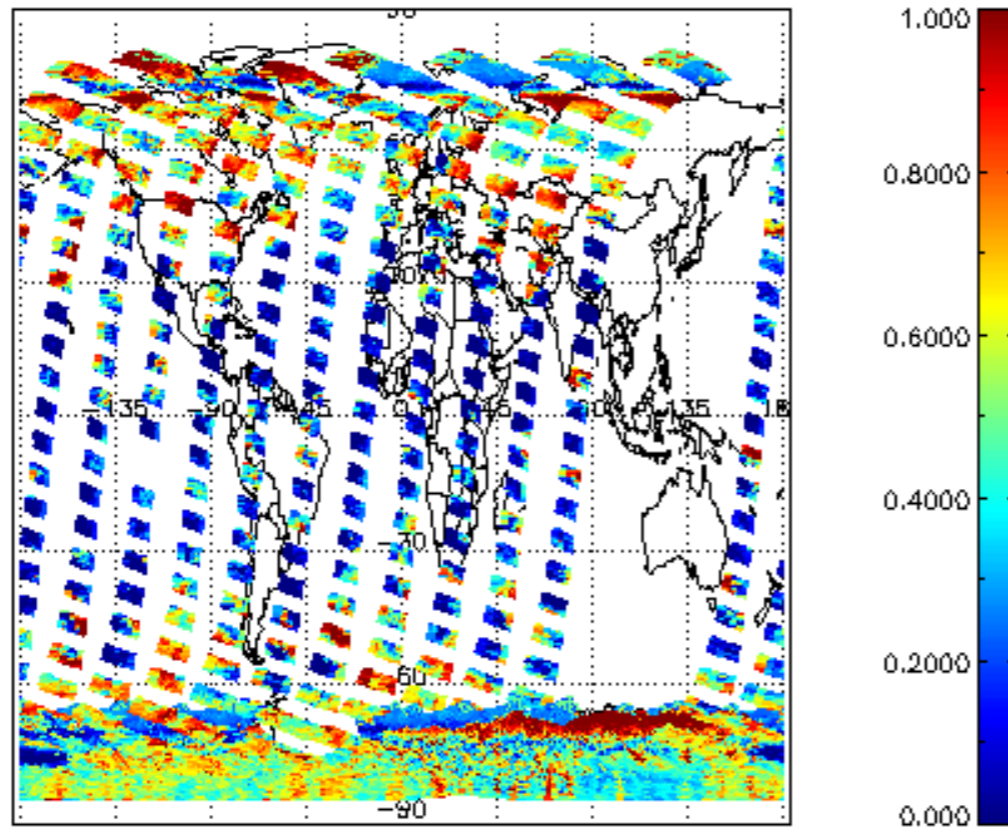
### 2.3 ADF monitoring

| 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_AXVIEC20110208_110054_20110201_191207_20110203_191207 |
| 3      | SCI_MF1_AXVIEC20110208_110105_20110202_183521_20110204_183521 |

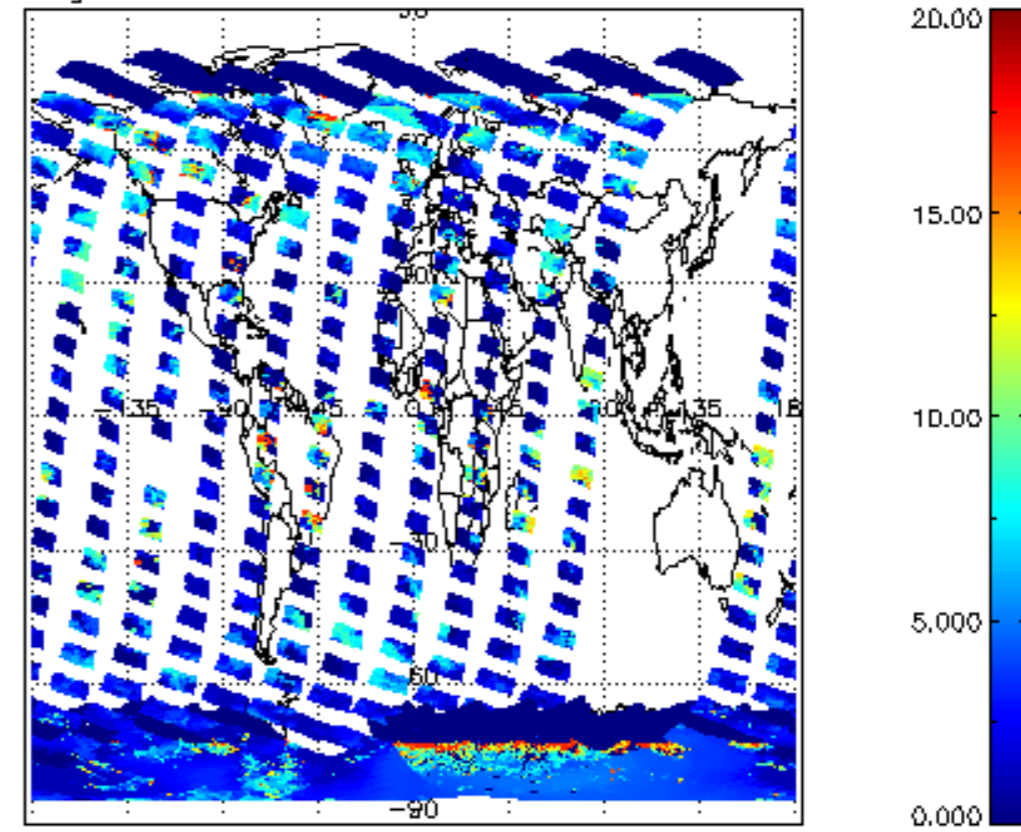




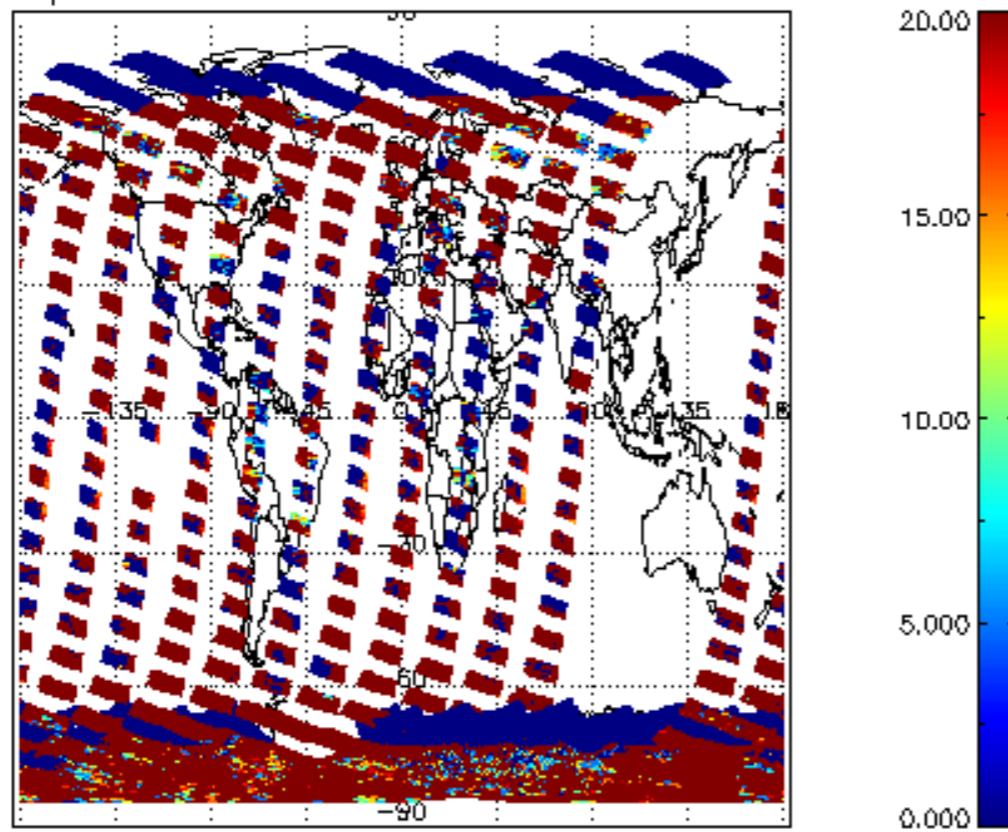
cl\_frac for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



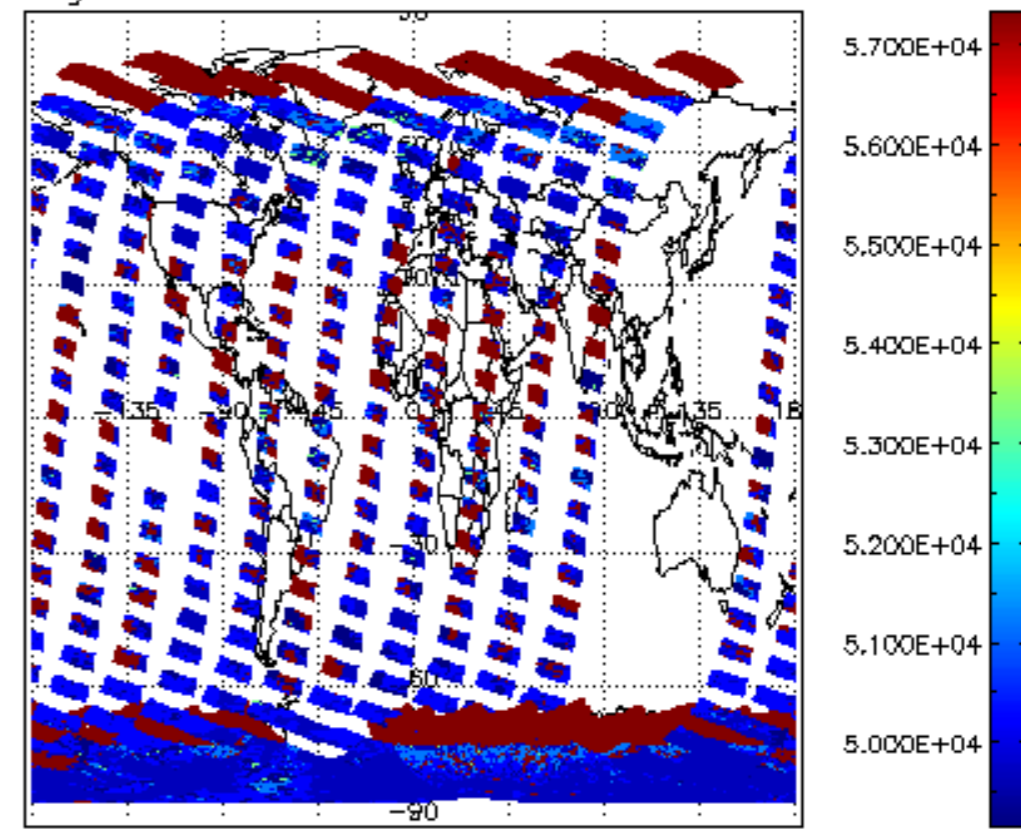
cl\_top\_height for 02FEB2011 00:00:00 to 03FEB2011 00:00:00

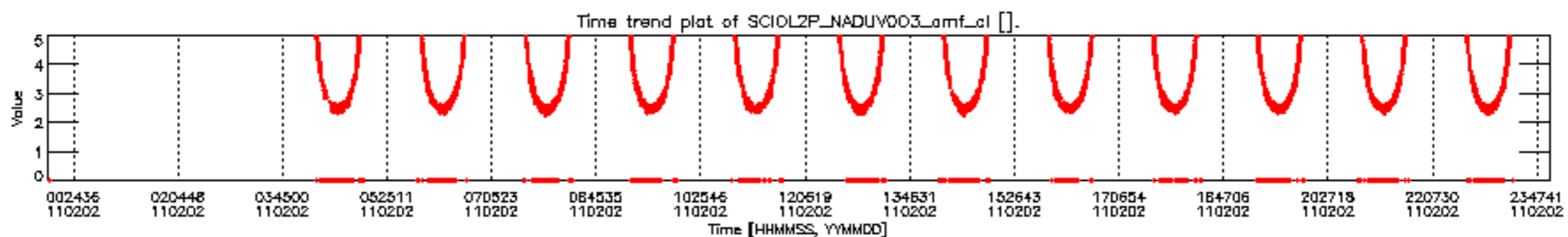
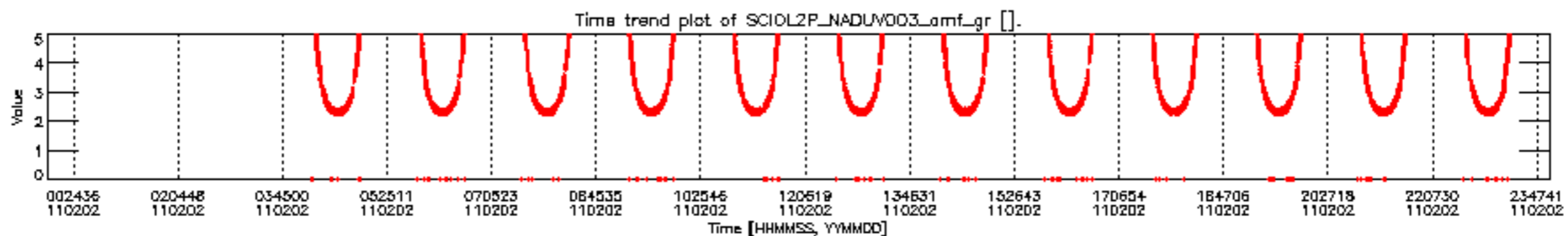
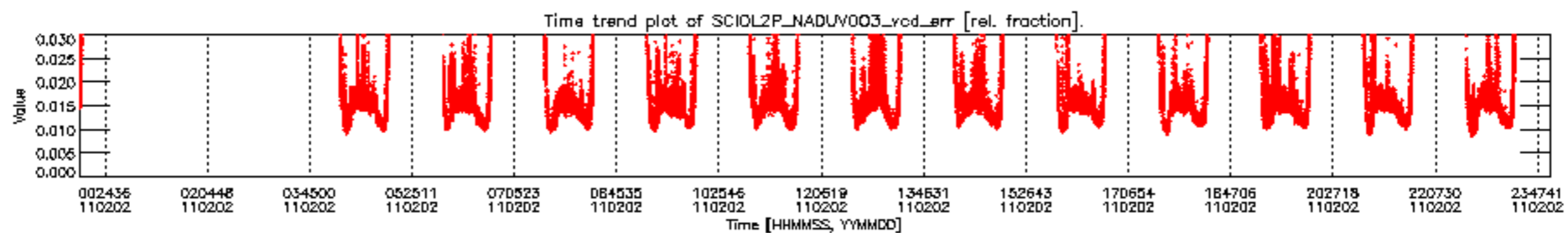
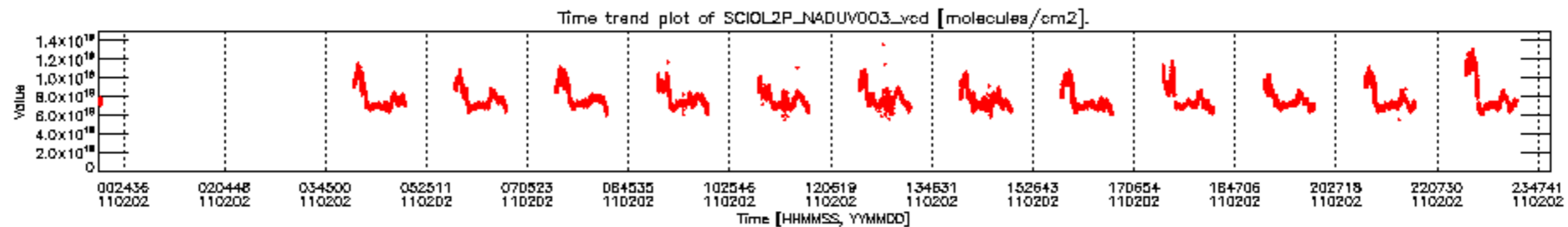


cl\_opt\_depth for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



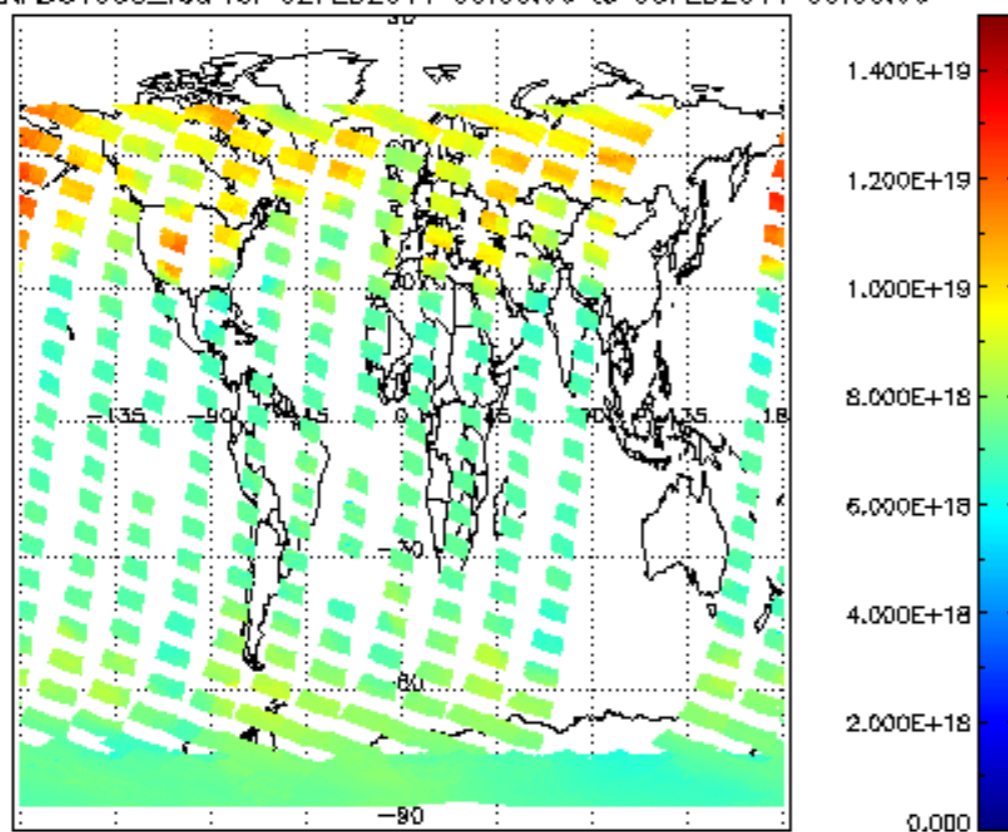
cloud\_flags for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



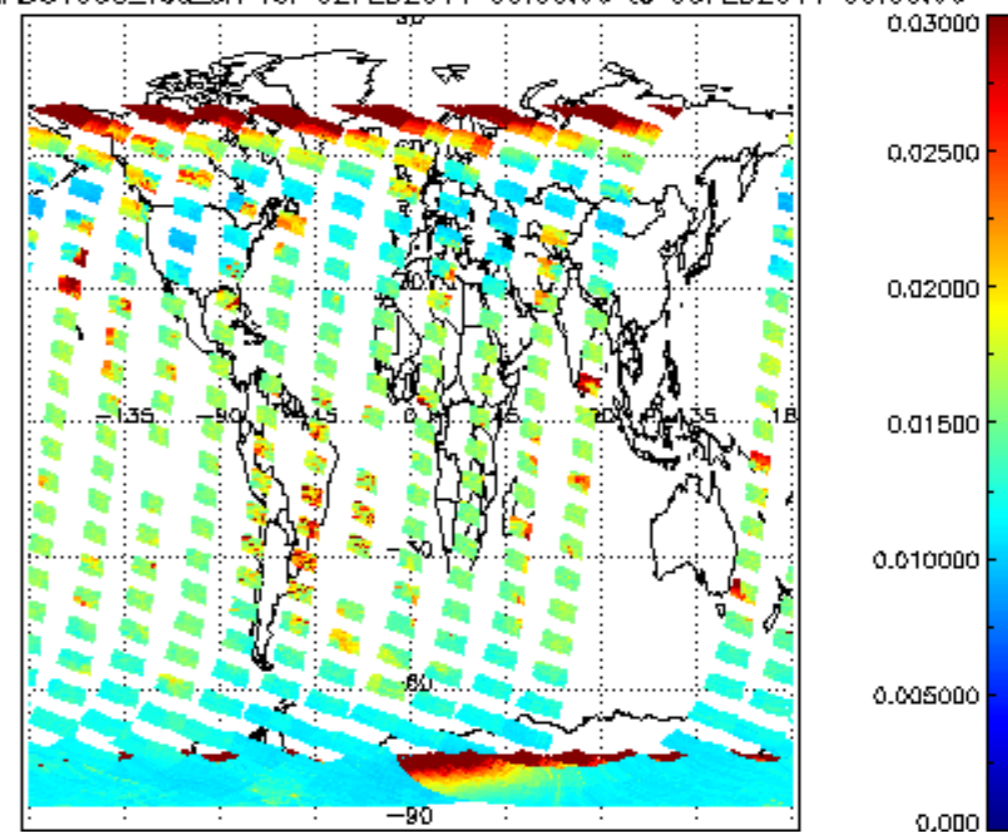




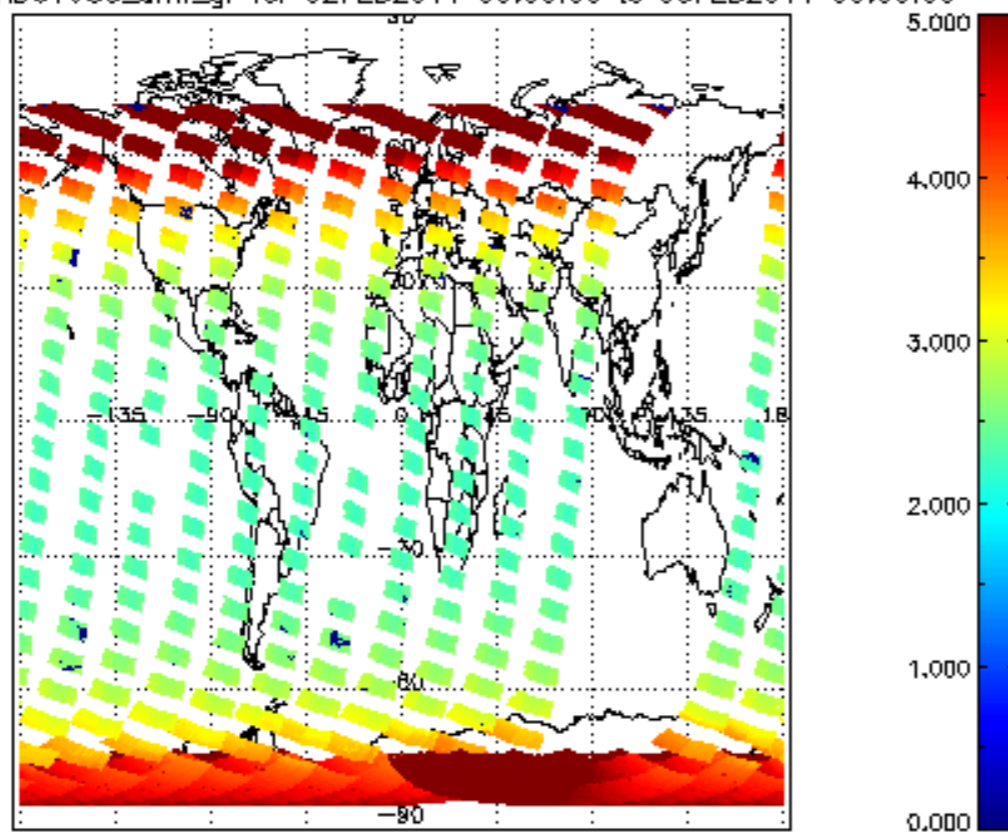
SCIOL2P\_NADUV003\_vcd for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



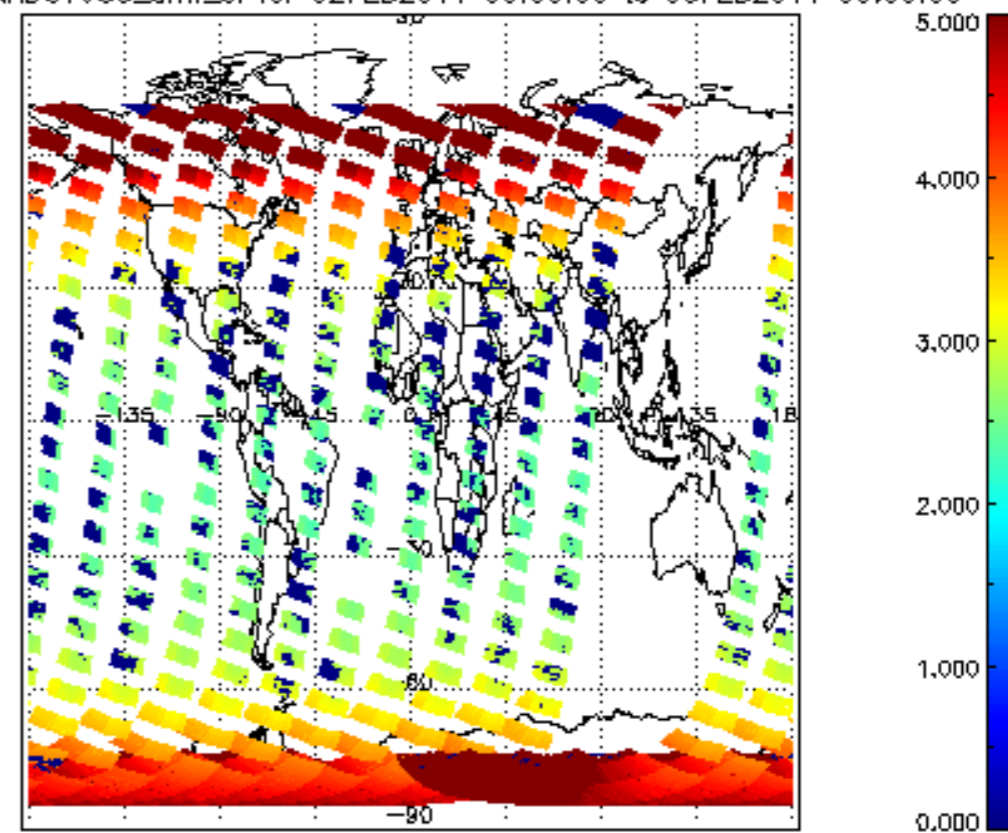
SCIOL2P\_NADUV003\_vcd\_err for 02FEB2011 00:00:00 to 03FEB2011 00:00:00

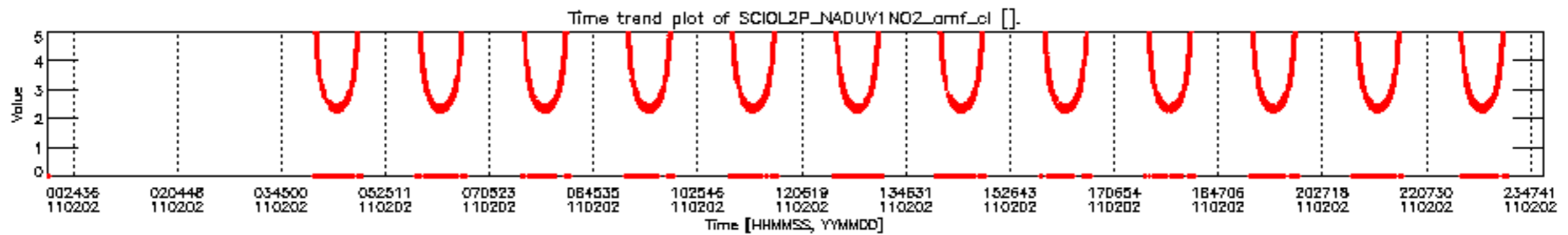
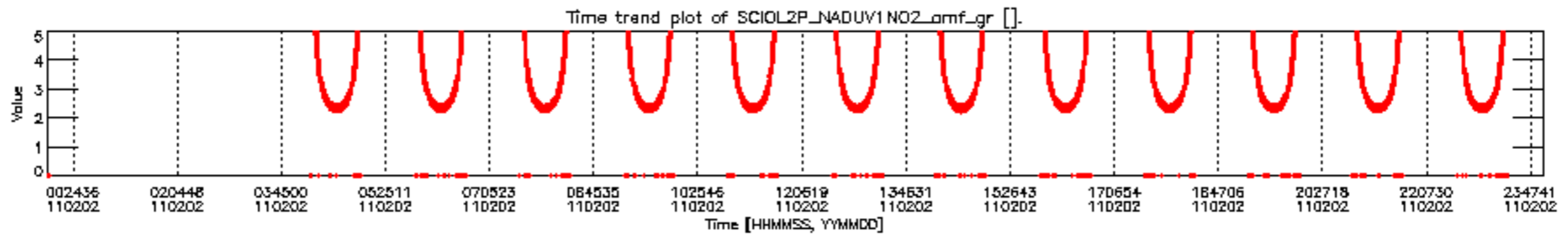
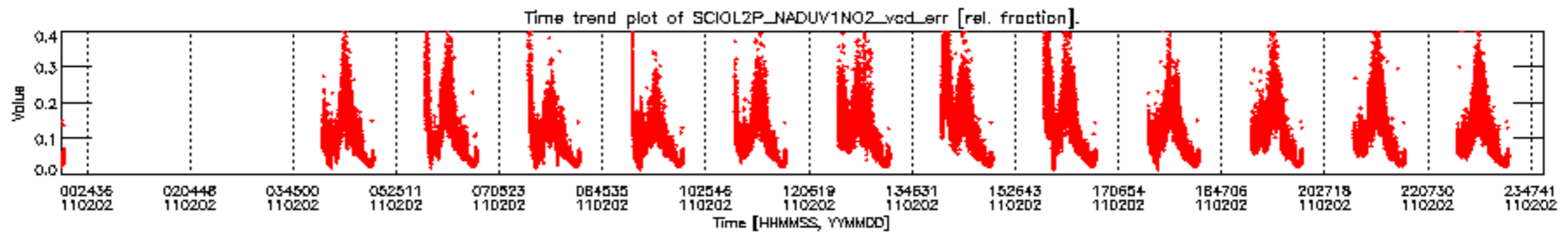
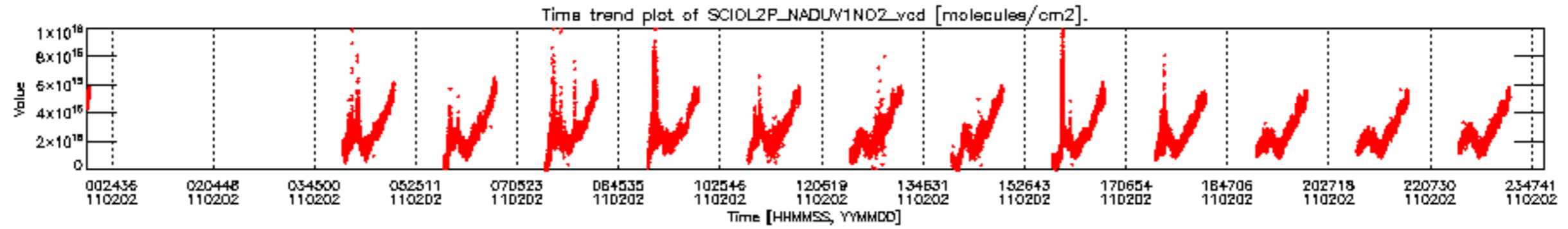


SCIOL2P\_NADUV003\_amf\_gr for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



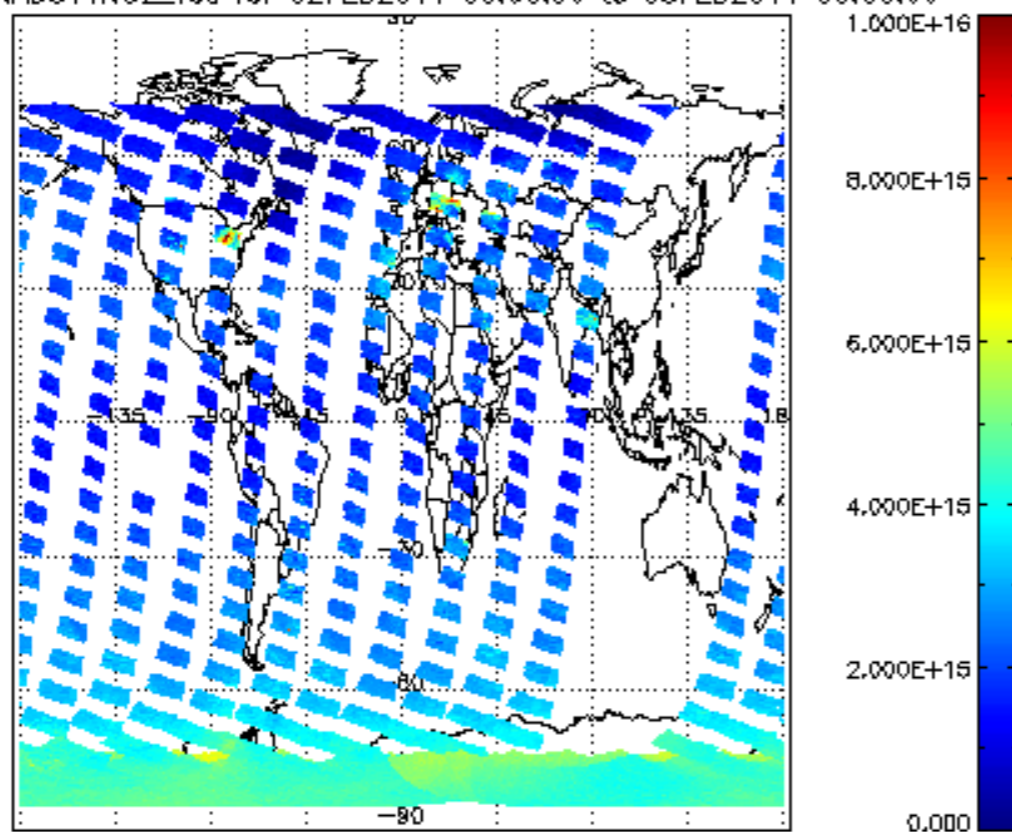
SCIOL2P\_NADUV003\_amf\_cl for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



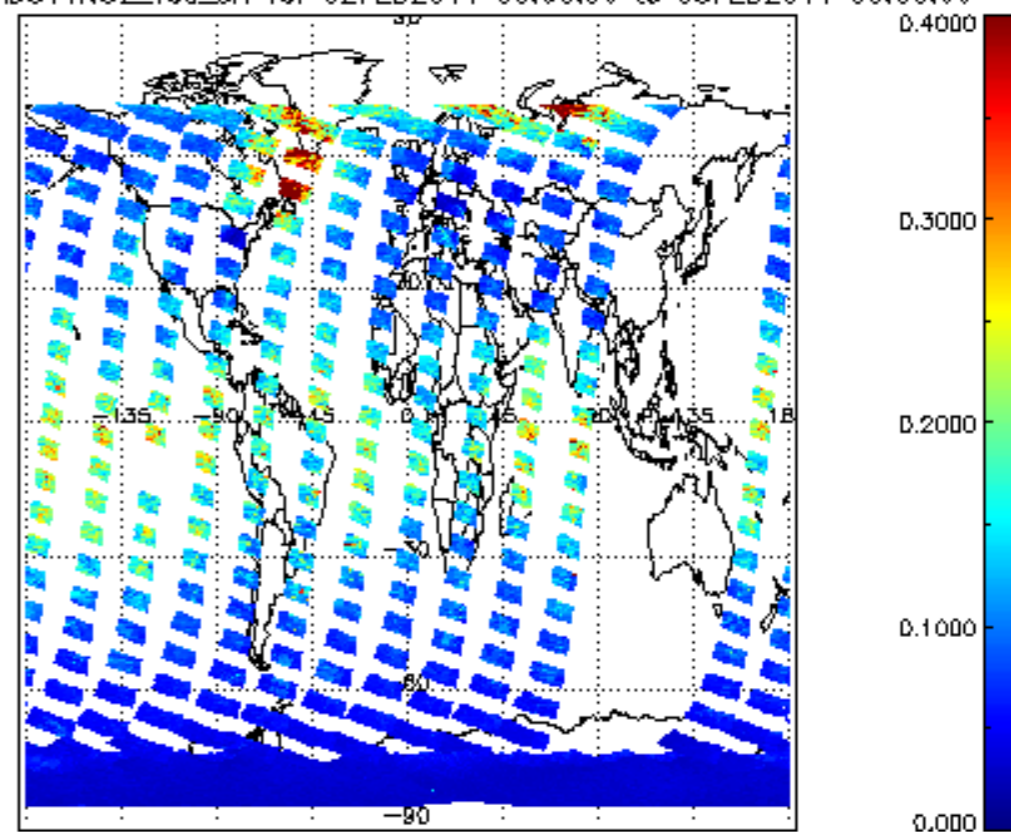




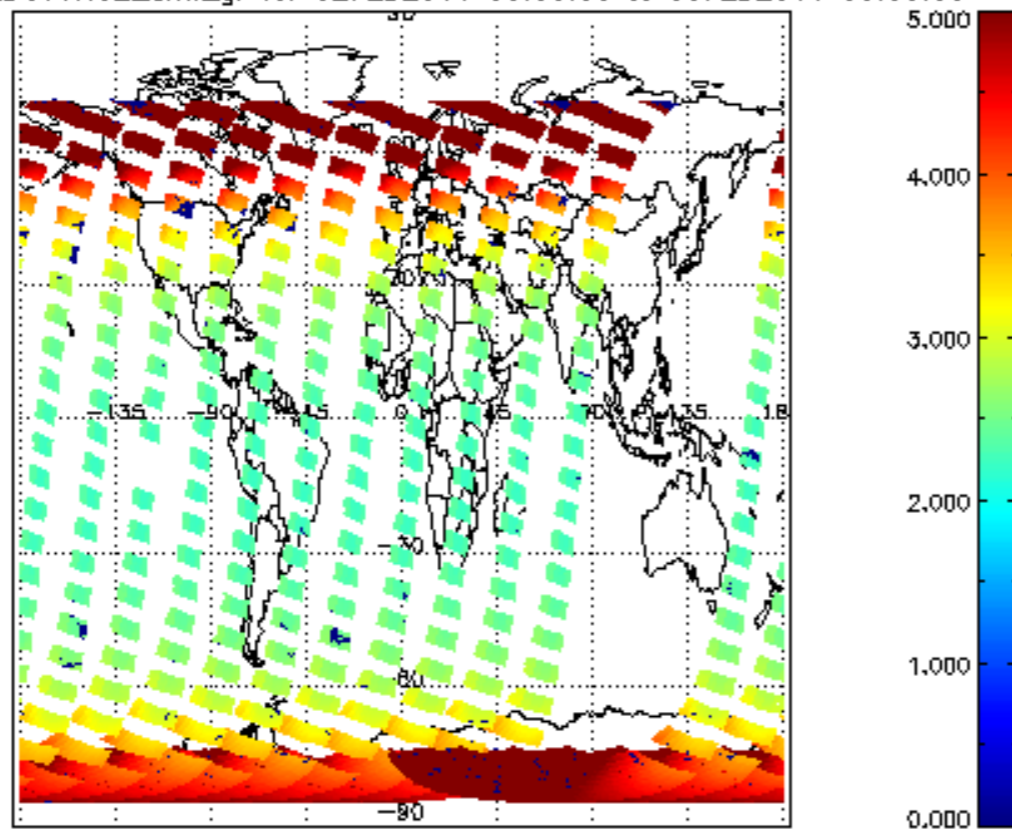
SCIOL2P\_NADUV1N02\_vcd for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



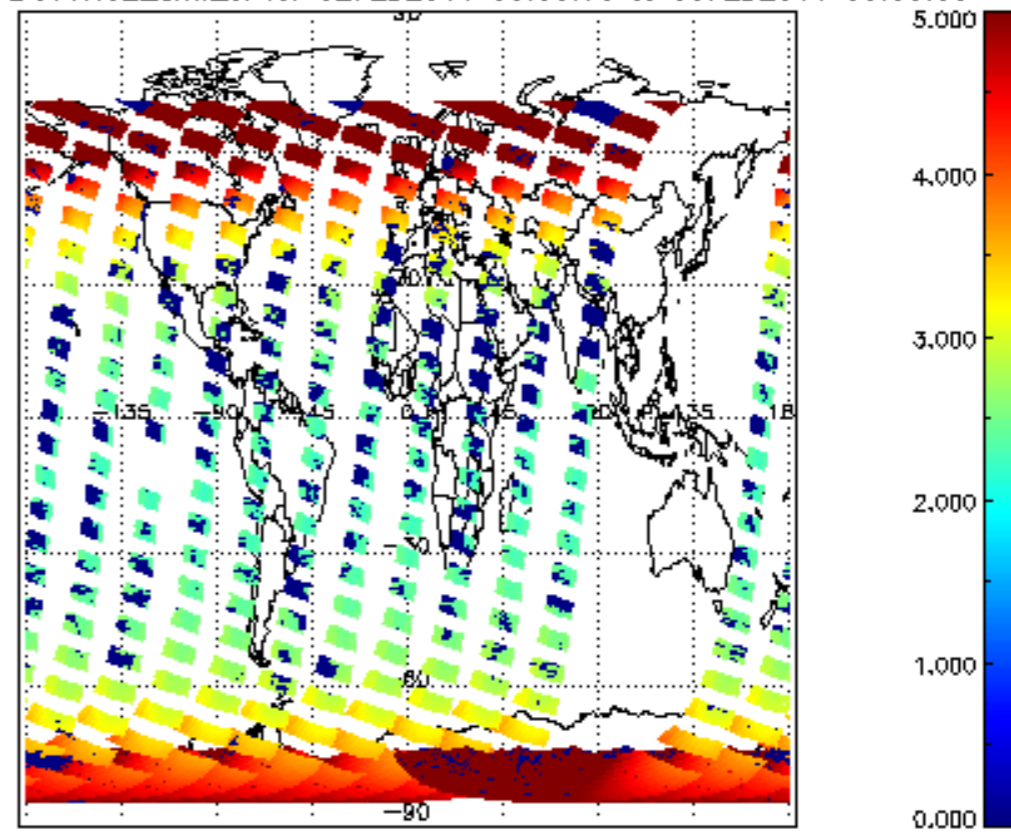
SCIOL2P\_NADUV1N02\_vcd\_err for 02FEB2011 00:00:00 to 03FEB2011 00:00:00

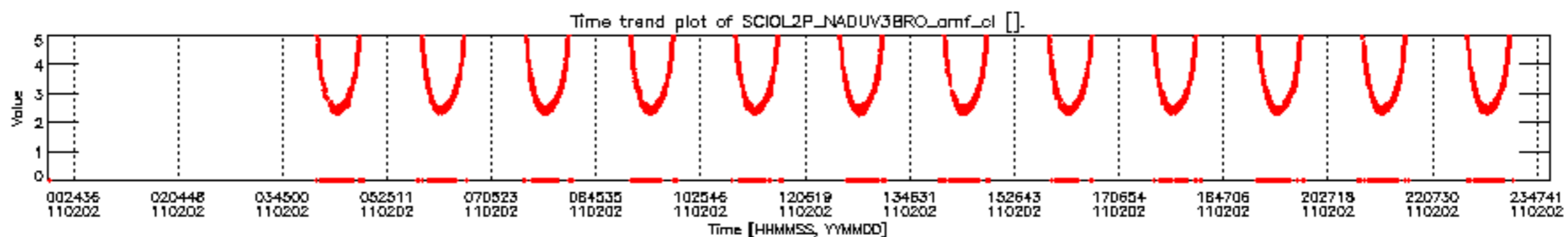
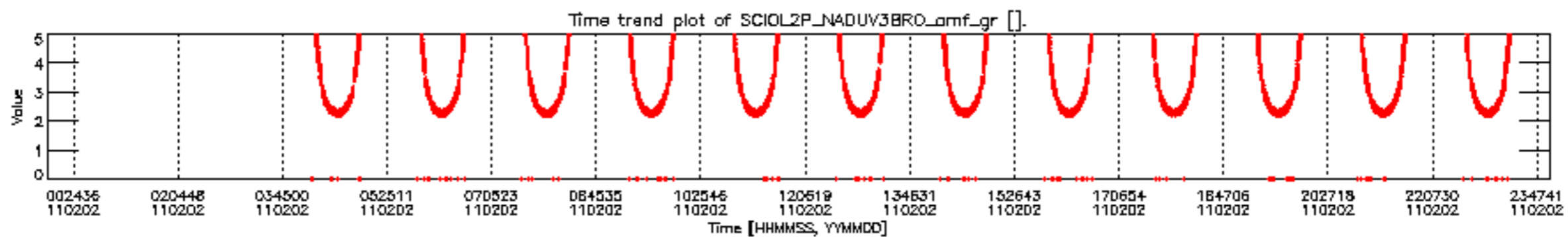
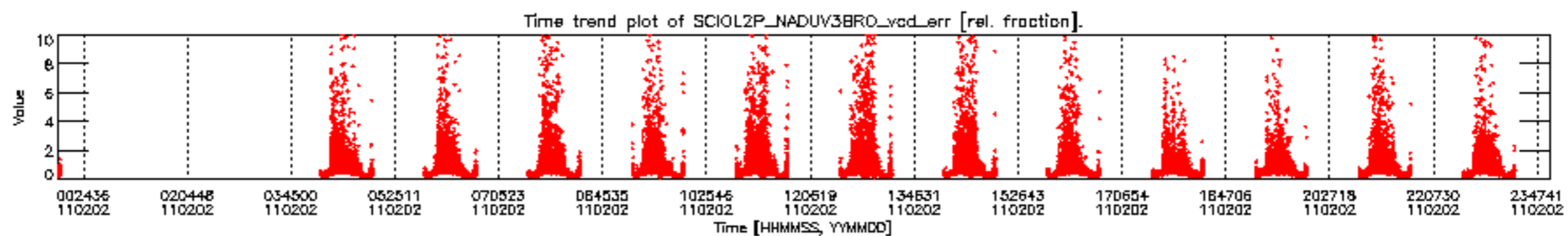
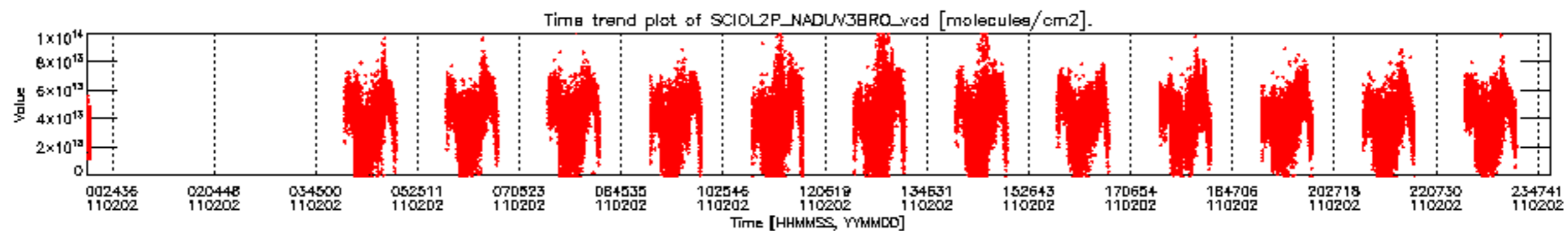


SCIOL2P\_NADUV1N02\_amf\_gr for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



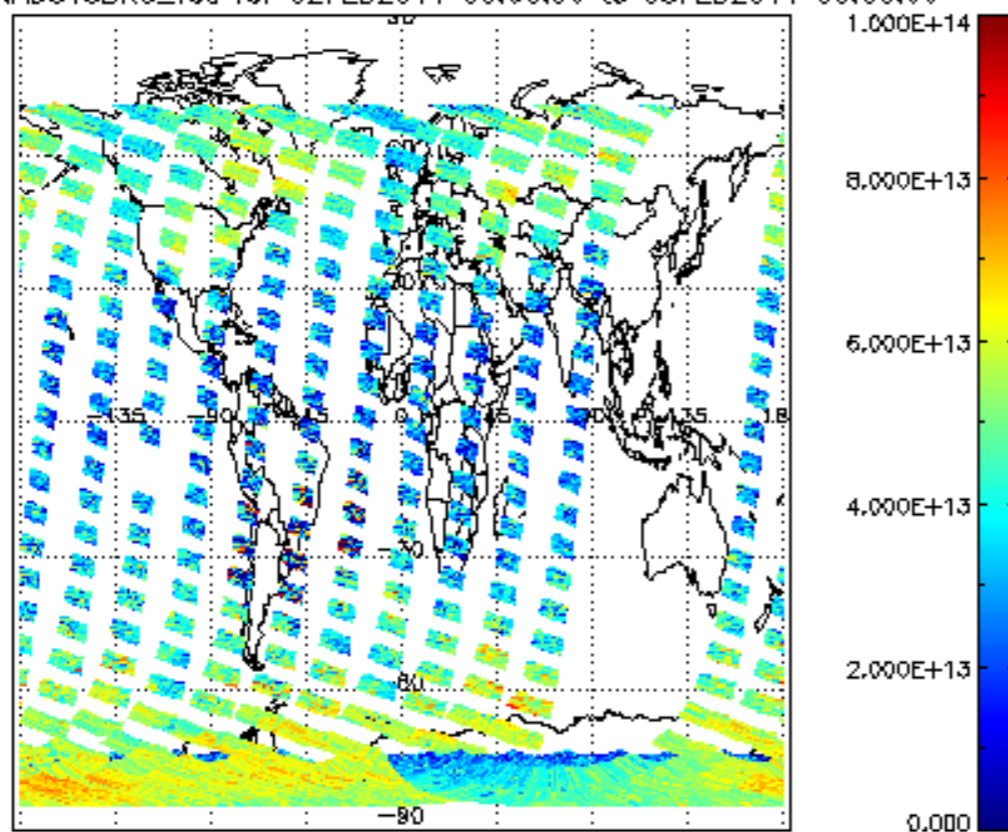
SCIOL2P\_NADUV1N02\_amf\_cl for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



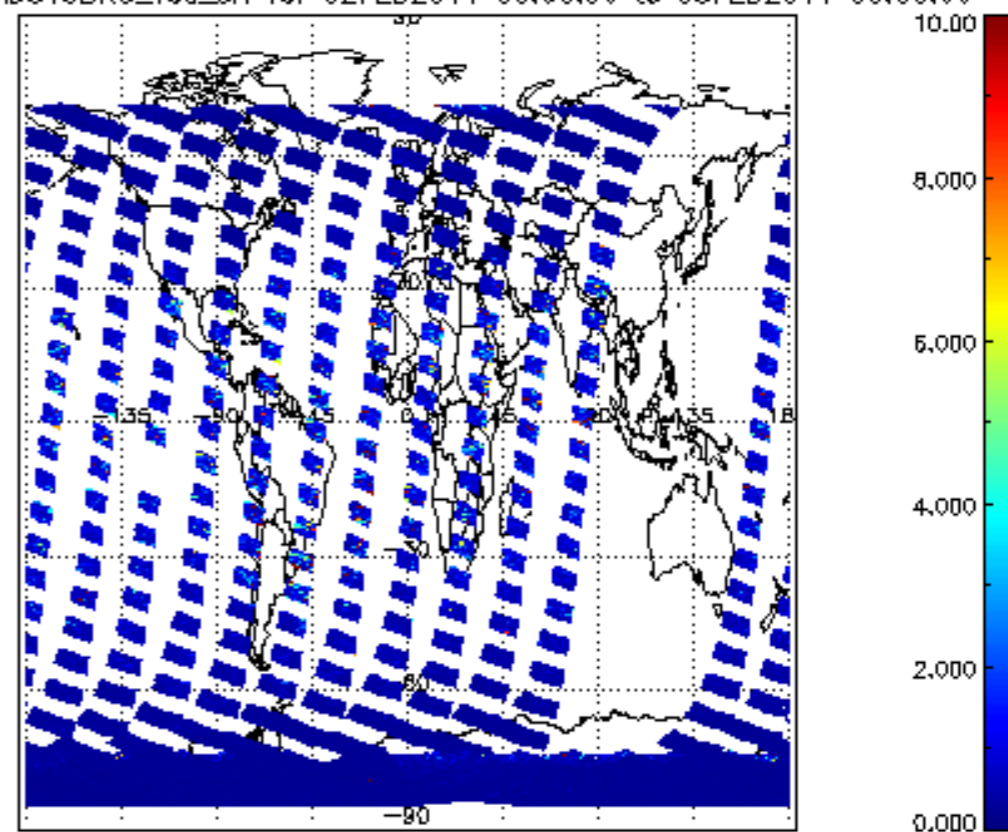




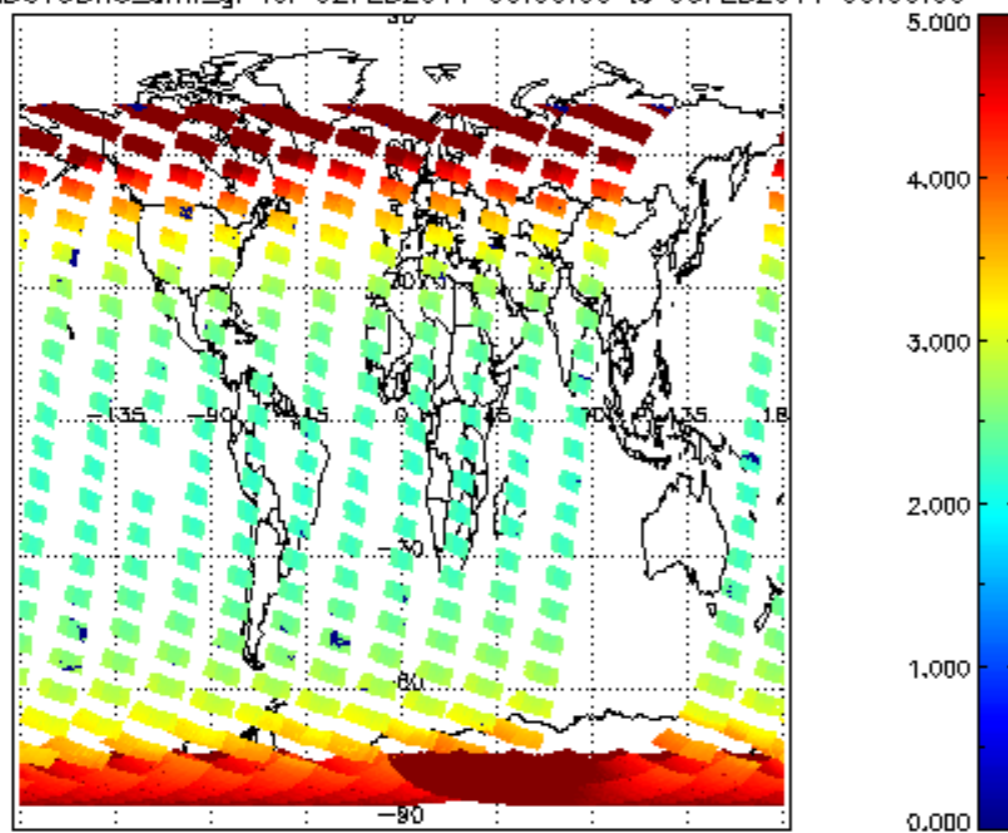
SCIOL2P\_NADUV3BRO\_vcd for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



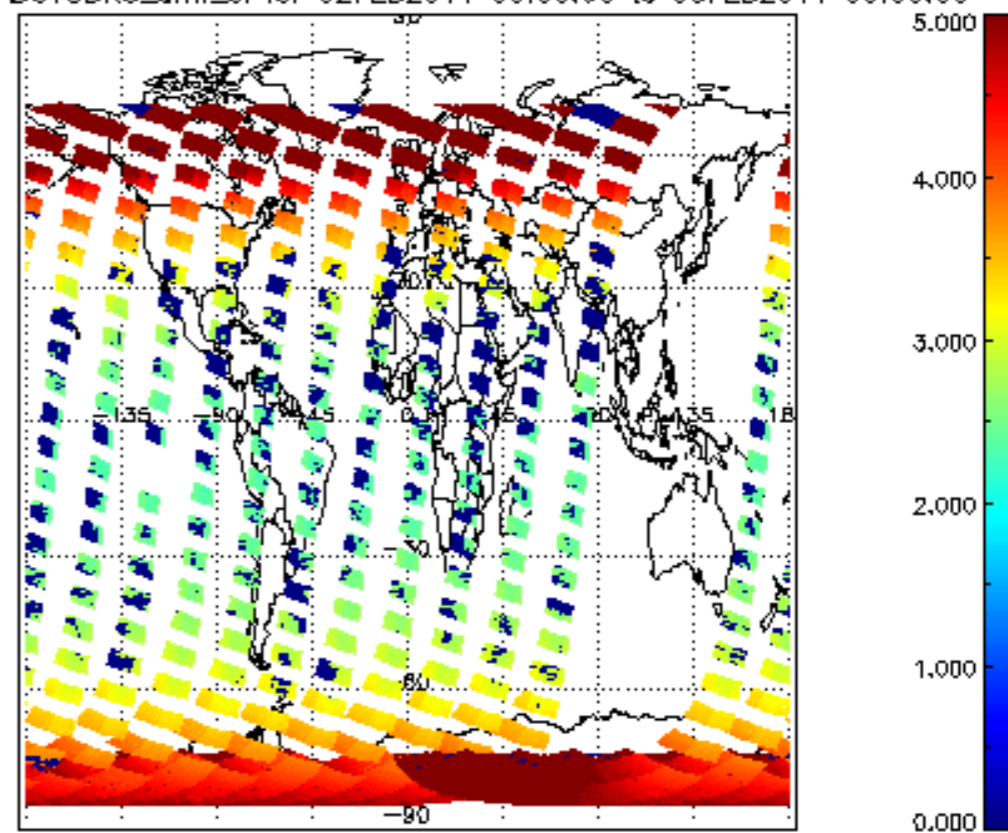
SCIOL2P\_NADUV3BRO\_vcd\_err for 02FEB2011 00:00:00 to 03FEB2011 00:00:00

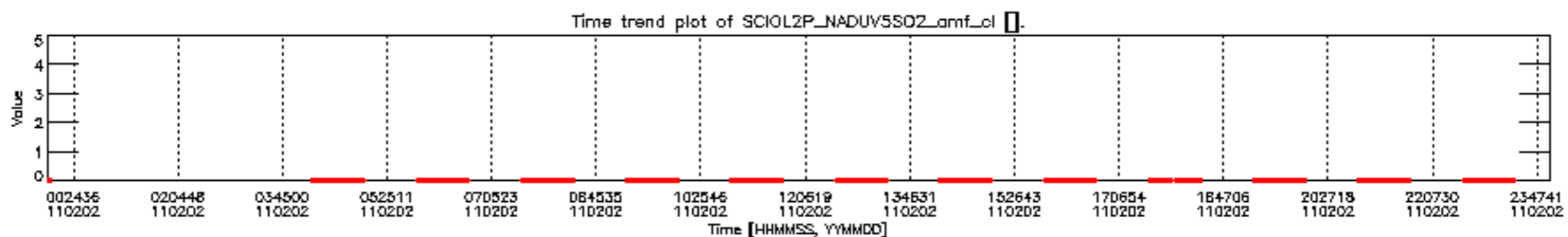
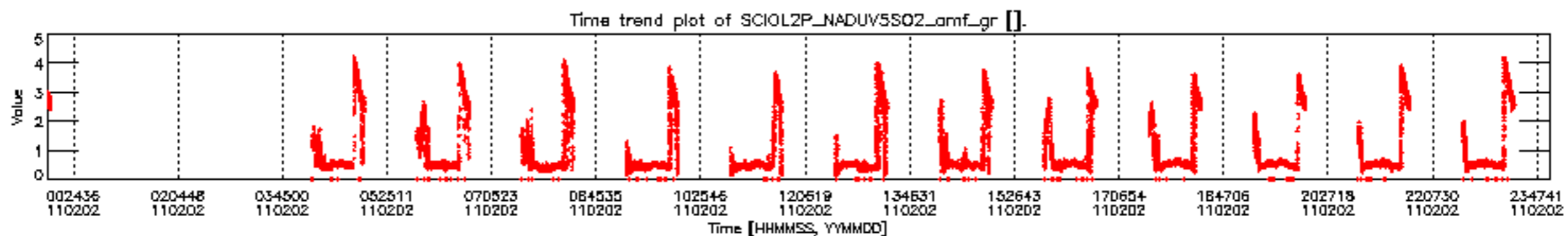
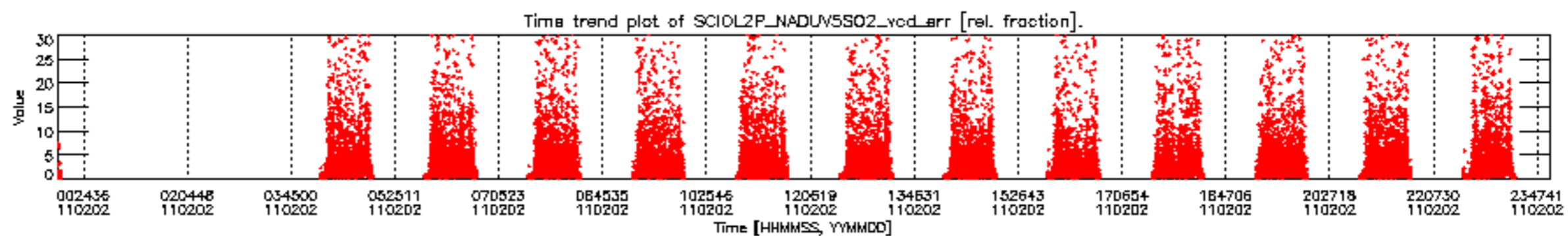
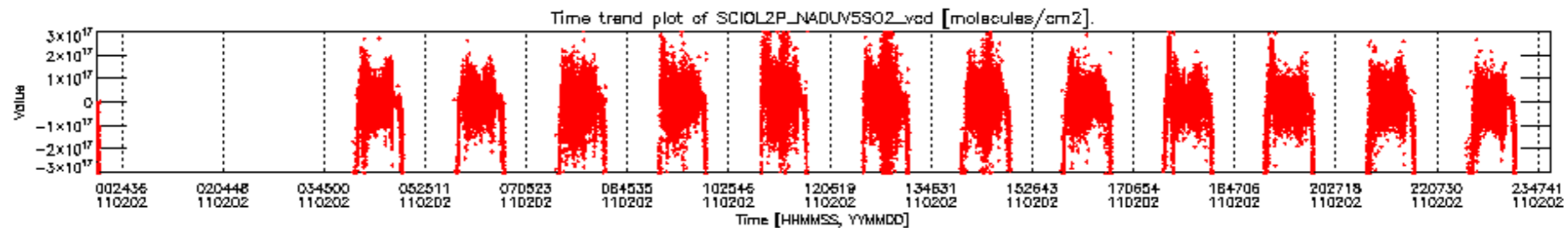


SCIOL2P\_NADUV3BRO\_amf\_gr for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



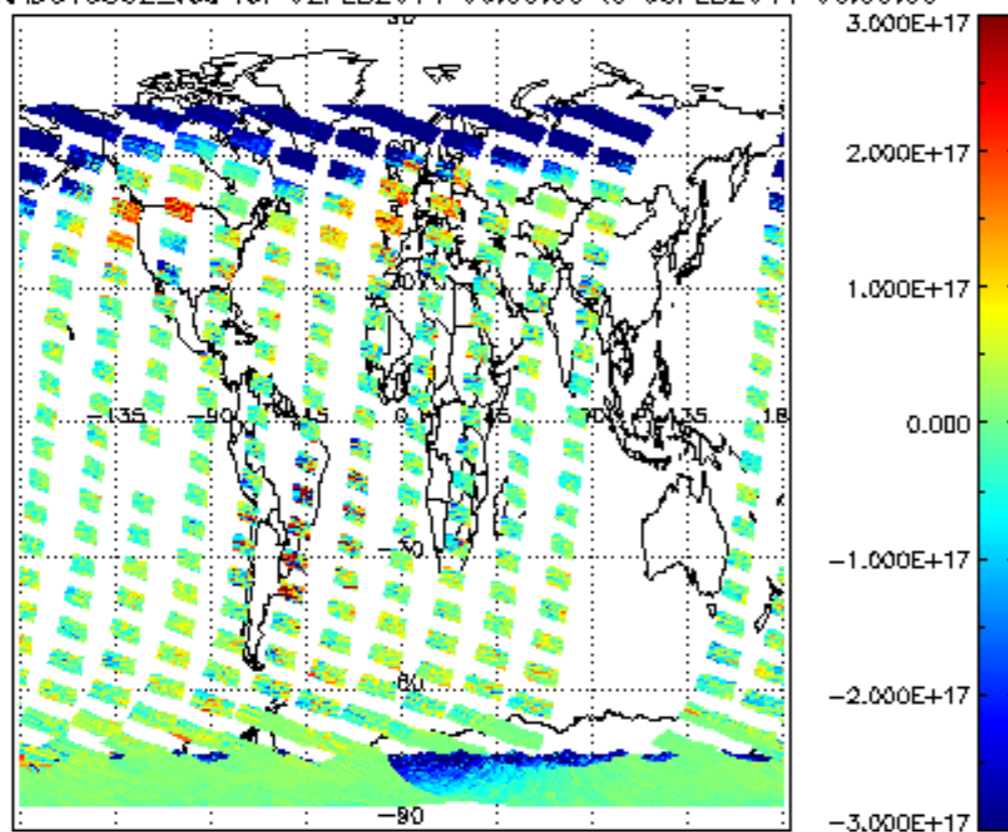
SCIOL2P\_NADUV3BRO\_amf\_cl for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



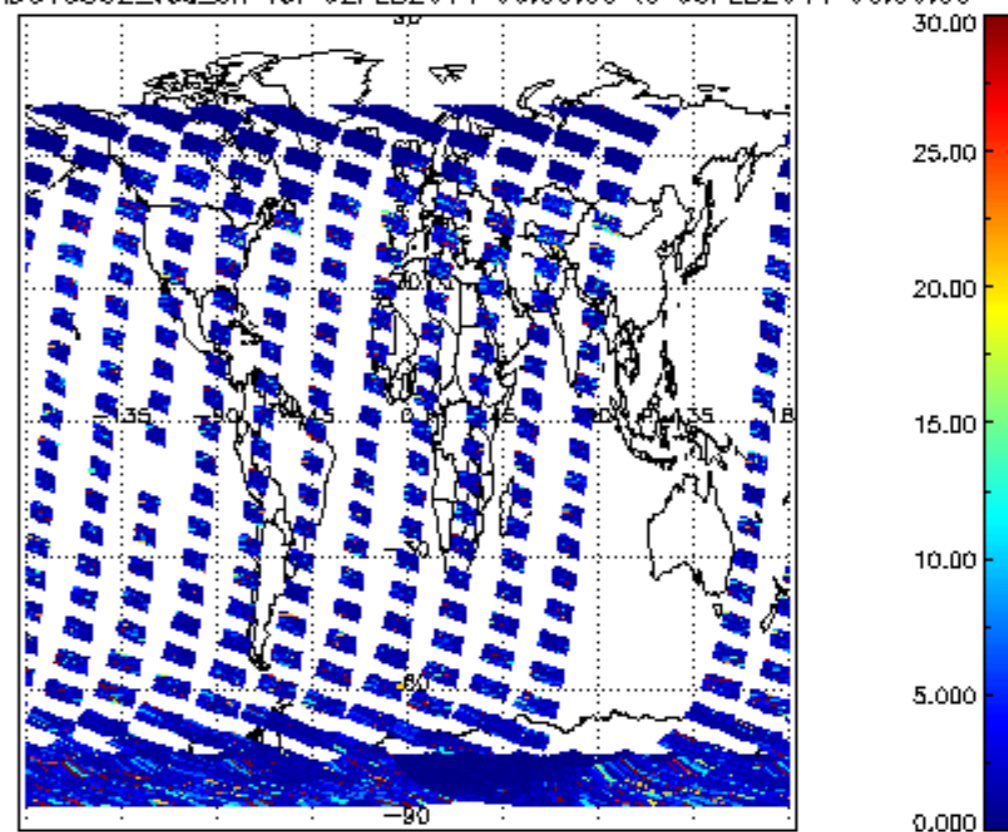




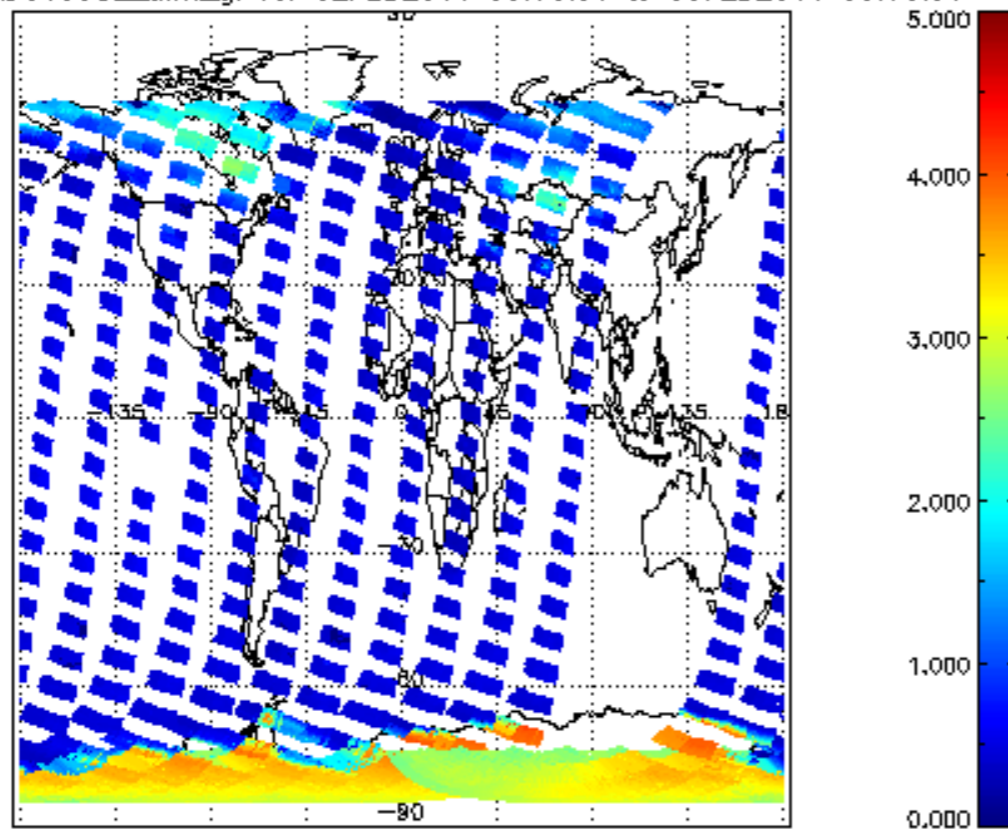
SCIOL2P\_NADUV5S02\_vcd for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



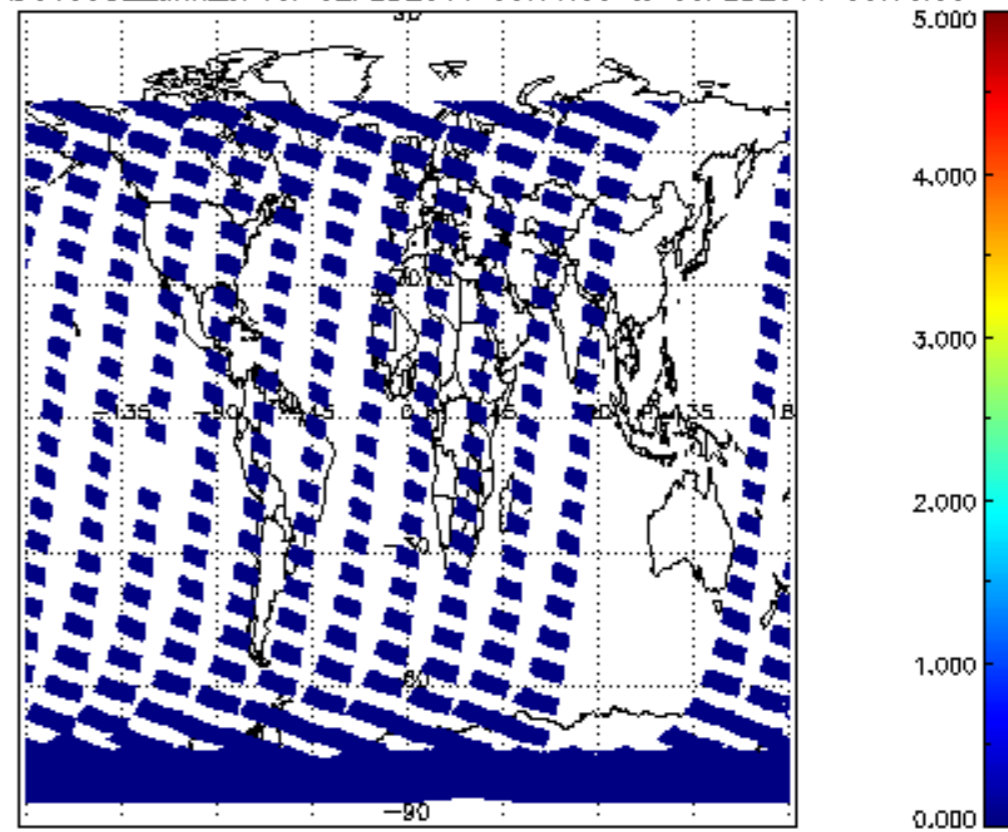
SCIOL2P\_NADUV5S02\_vcd\_err for 02FEB2011 00:00:00 to 03FEB2011 00:00:00

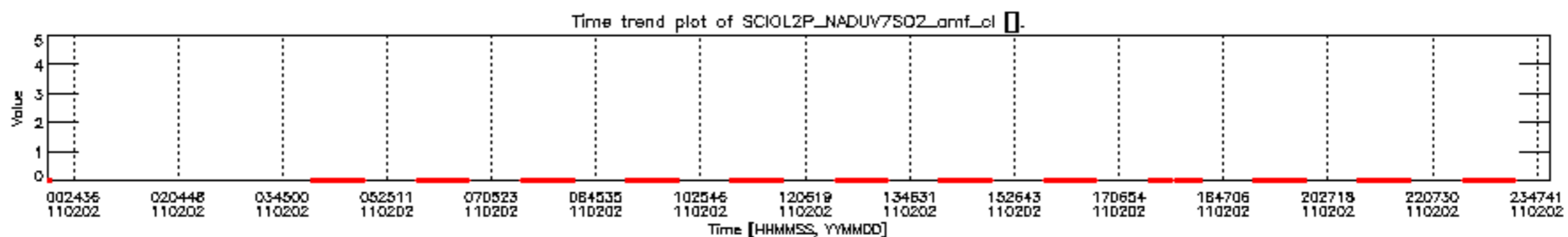
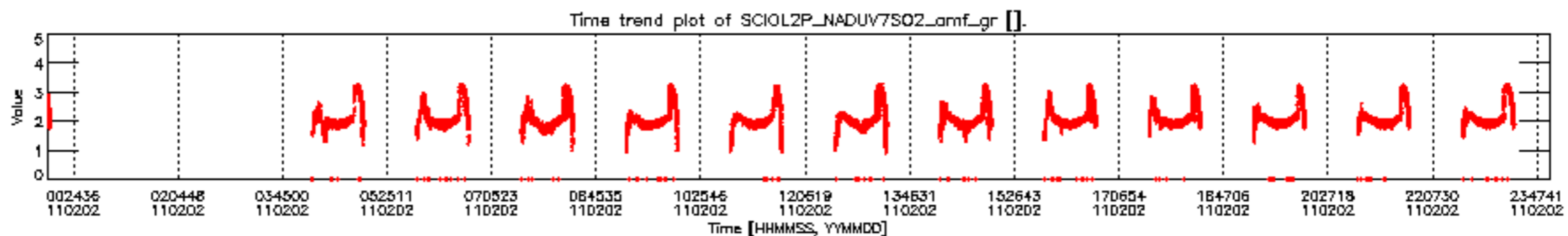
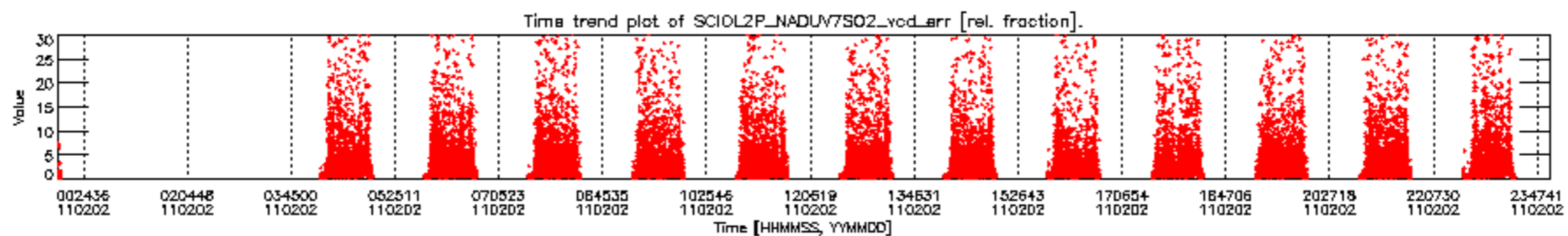
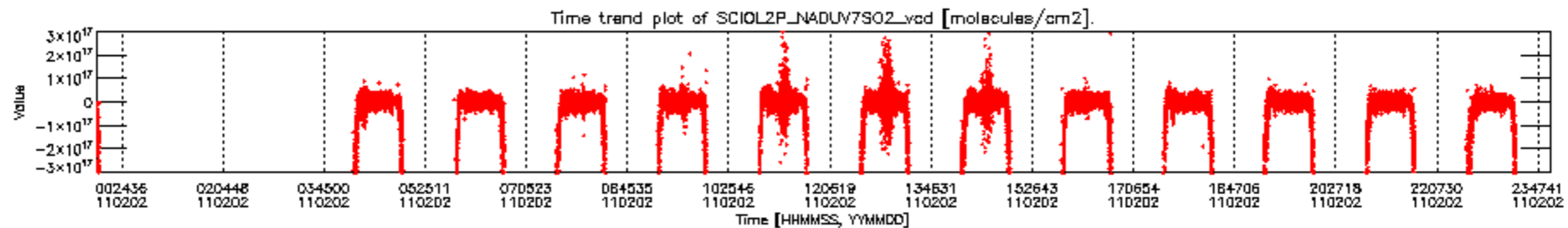


SCIOL2P\_NADUV5S02\_amf\_gr for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



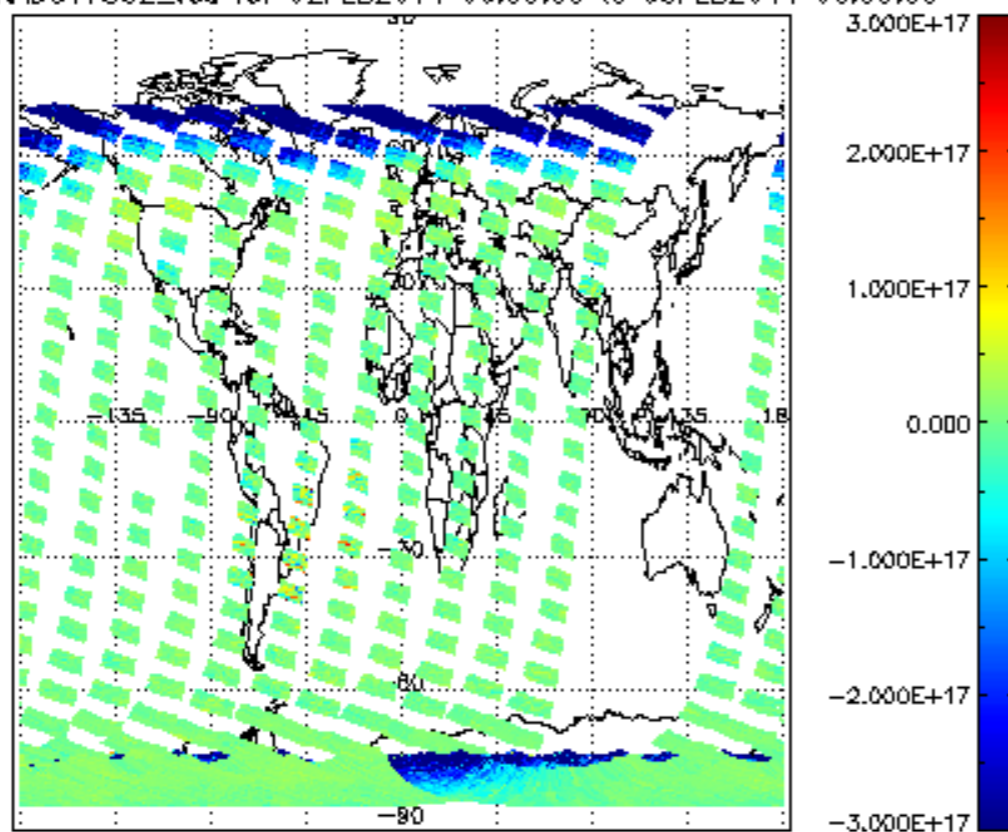
SCIOL2P\_NADUV5S02\_amf\_cl for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



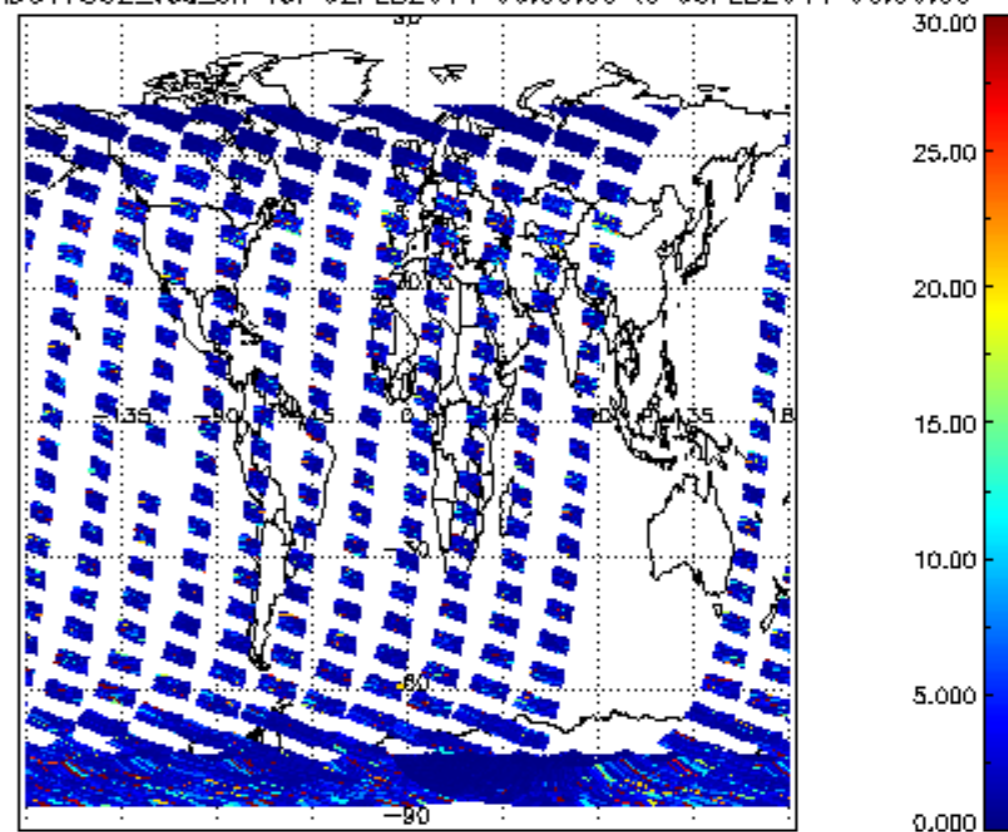




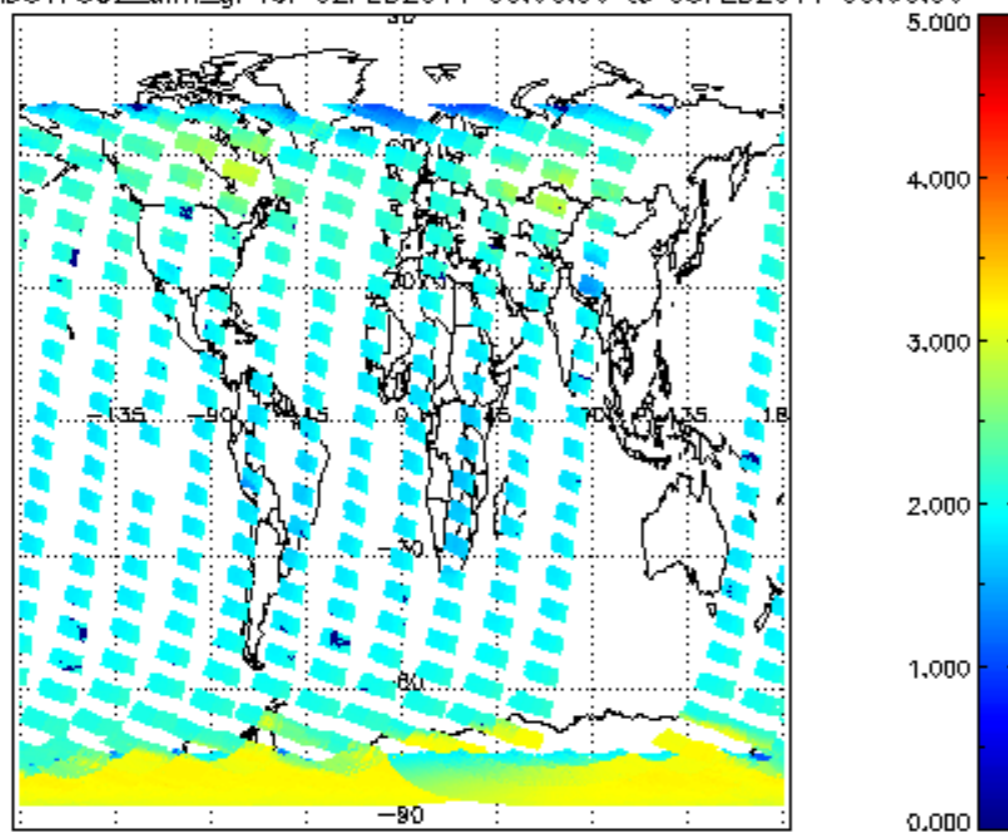
SCIOL2P\_NADUV7S02\_vcd for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



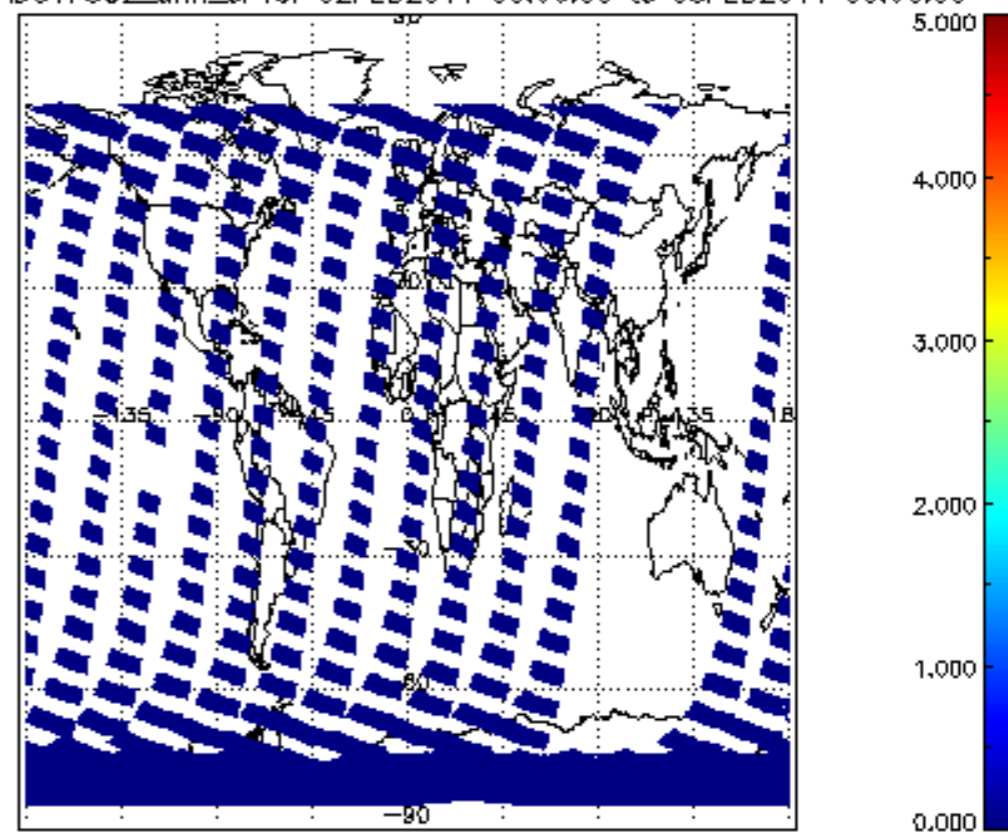
SCIOL2P\_NADUV7S02\_vcd\_err for 02FEB2011 00:00:00 to 03FEB2011 00:00:00

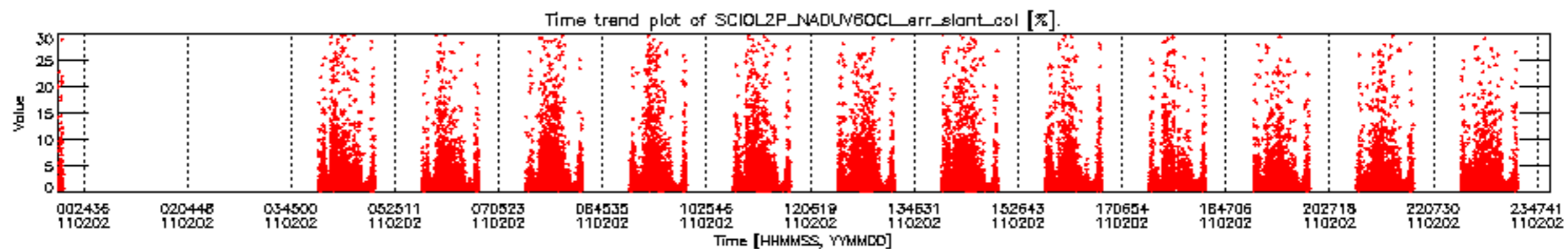
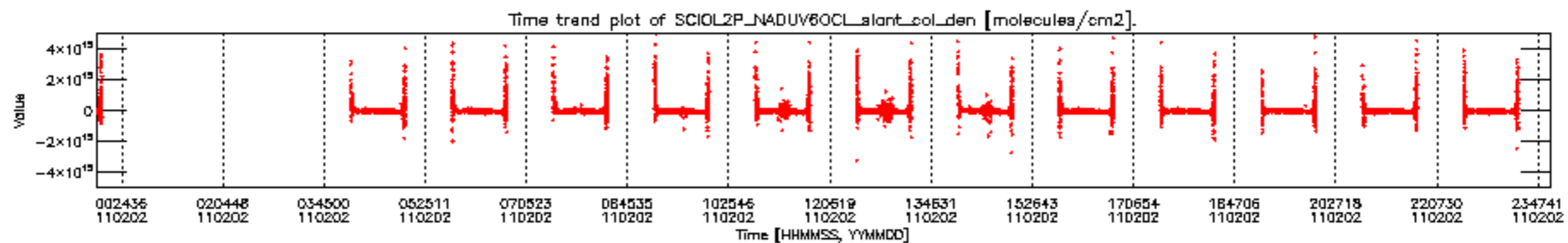


SCIOL2P\_NADUV7S02\_amf\_gr for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



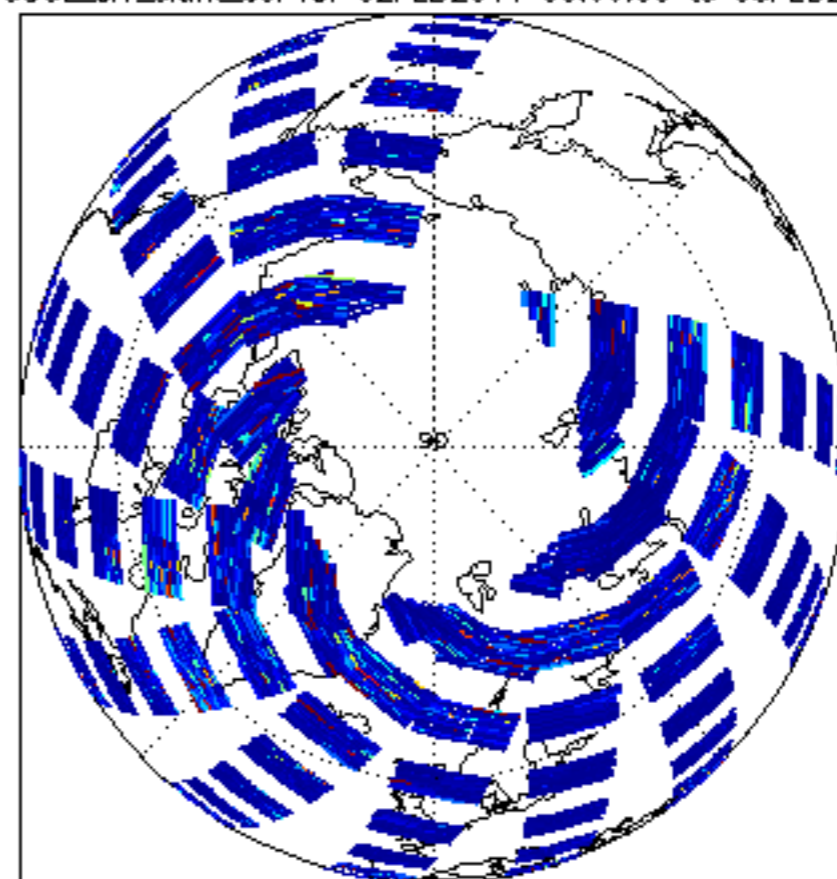
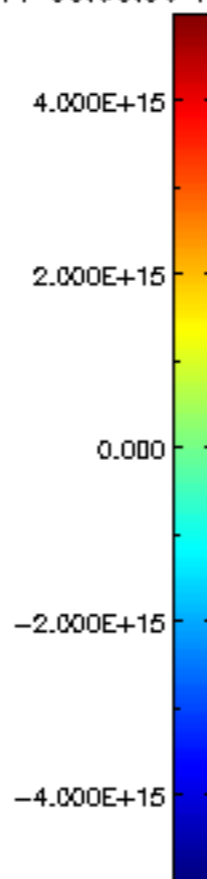
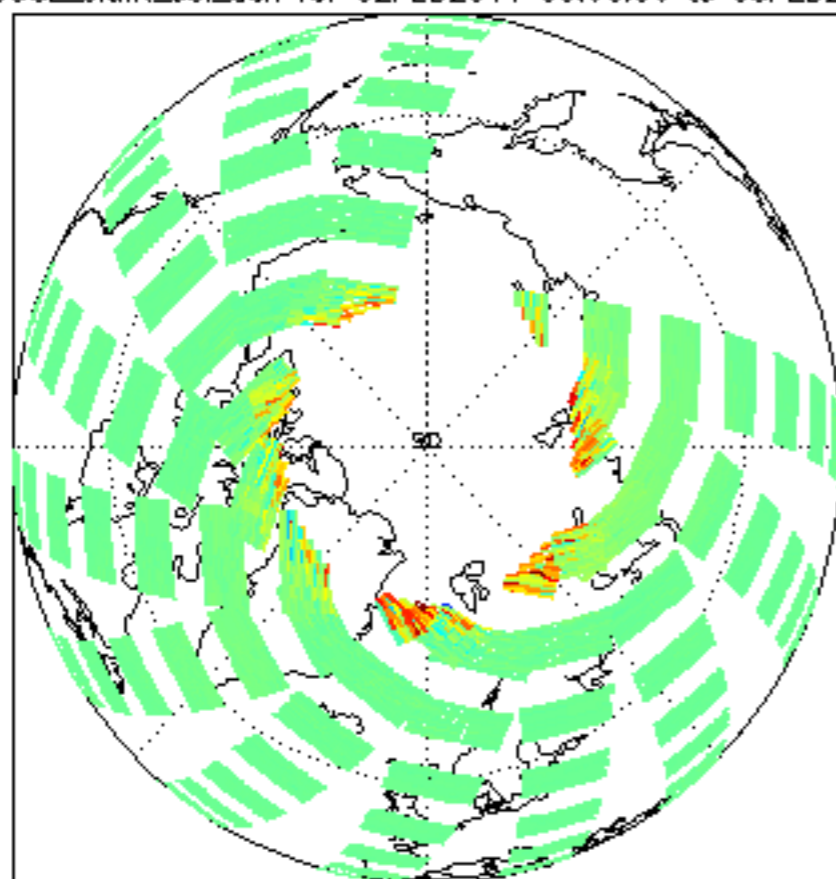
SCIOL2P\_NADUV7S02\_amf\_cl for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



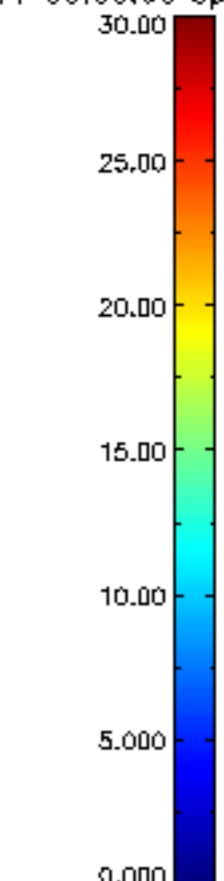
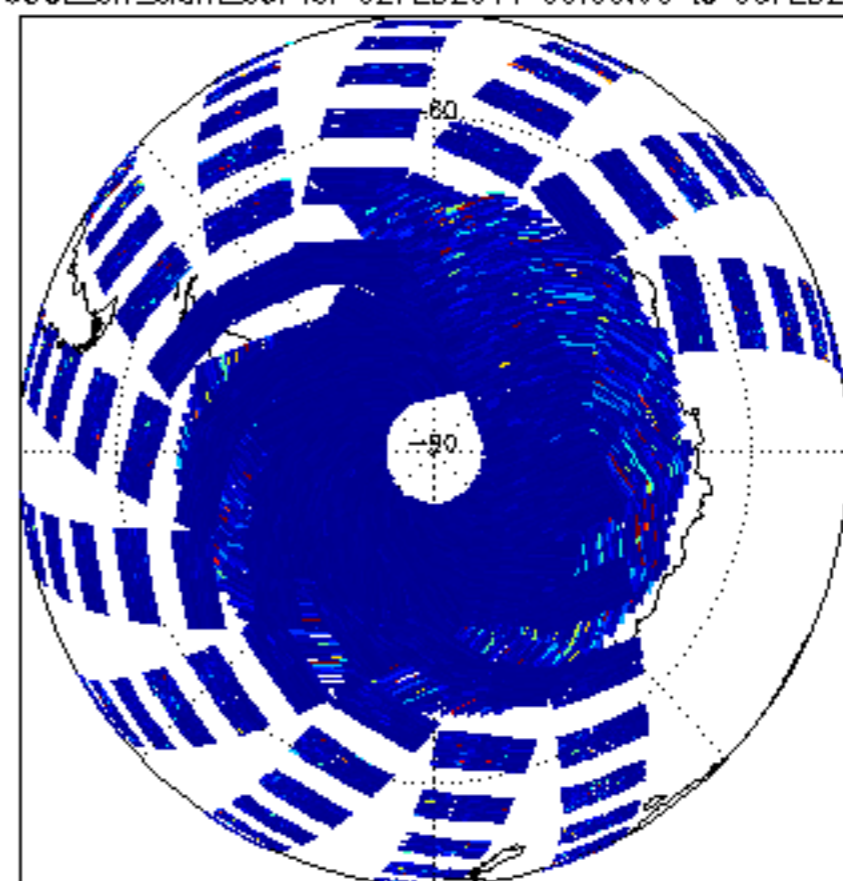
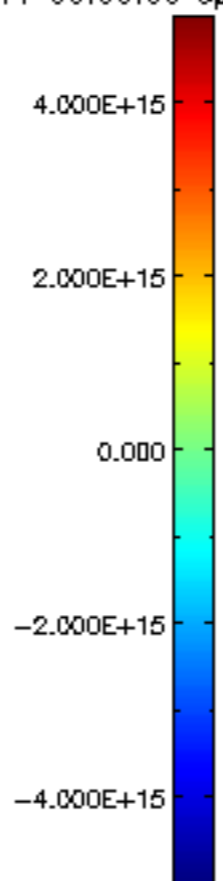
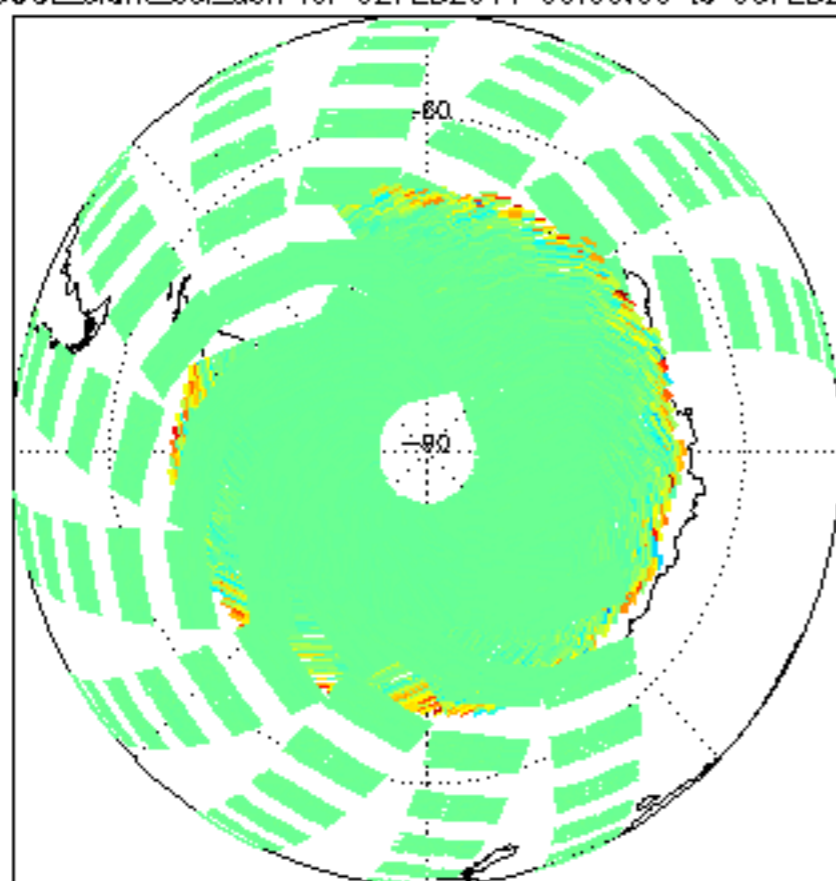




CIOL2P\_NADUV6OCL\_slant\_col\_den for 02FEB2011 00:00:00 to 03FEB2011 00:00:00 np; CIOL2P\_NADUV6OCL\_err\_slant\_col for 02FEB2011 00:00:00 to 03FEB2011 00:00:00 np



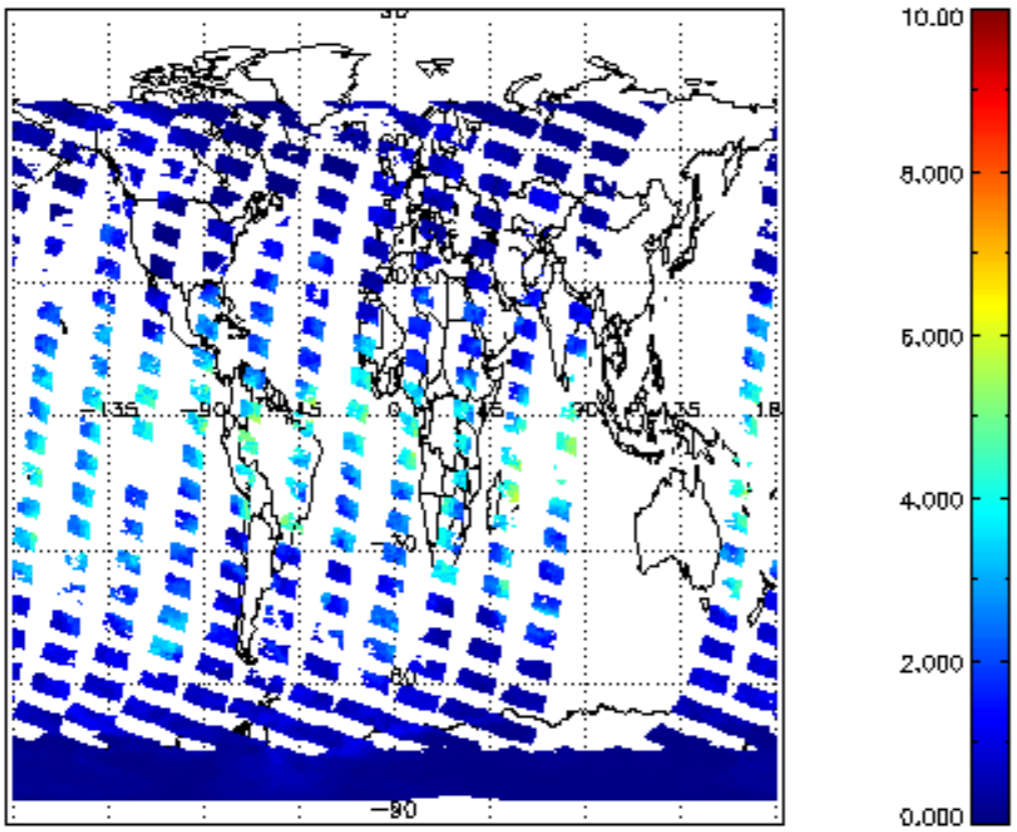
CIOL2P\_NADUV6OCL\_slant\_col\_den for 02FEB2011 00:00:00 to 03FEB2011 00:00:00 sp; CIOL2P\_NADUV6OCL\_err\_slant\_col for 02FEB2011 00:00:00 to 03FEB2011 00:00:00 sp



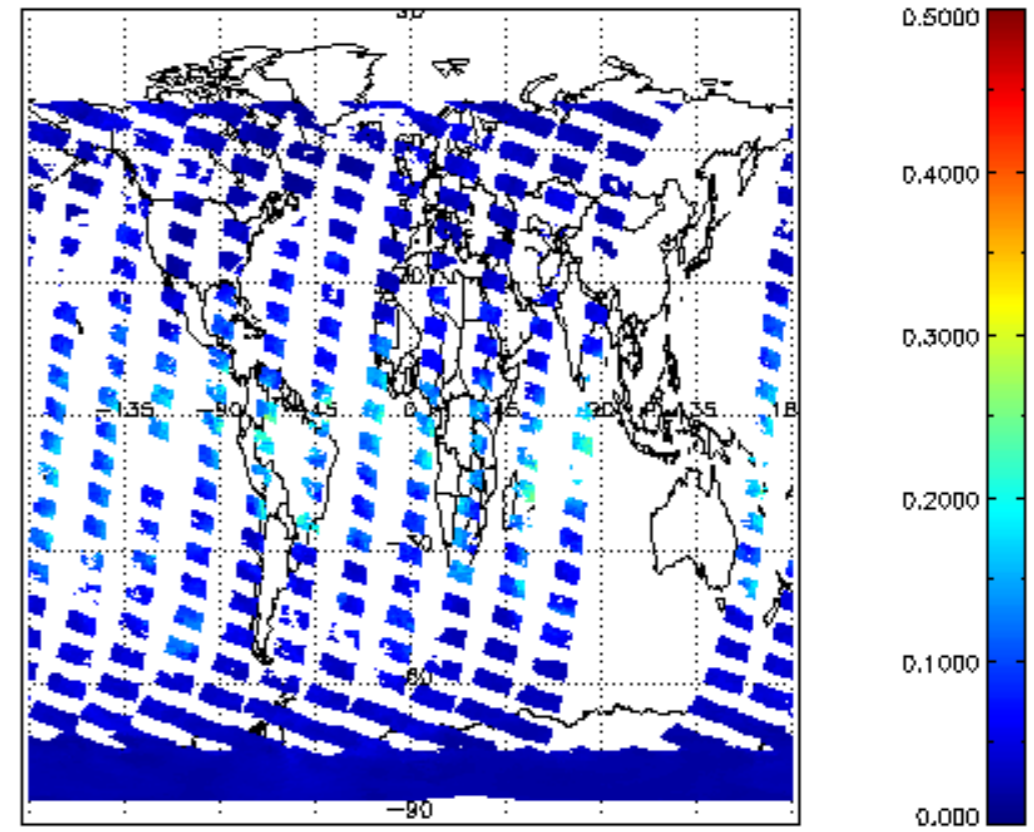




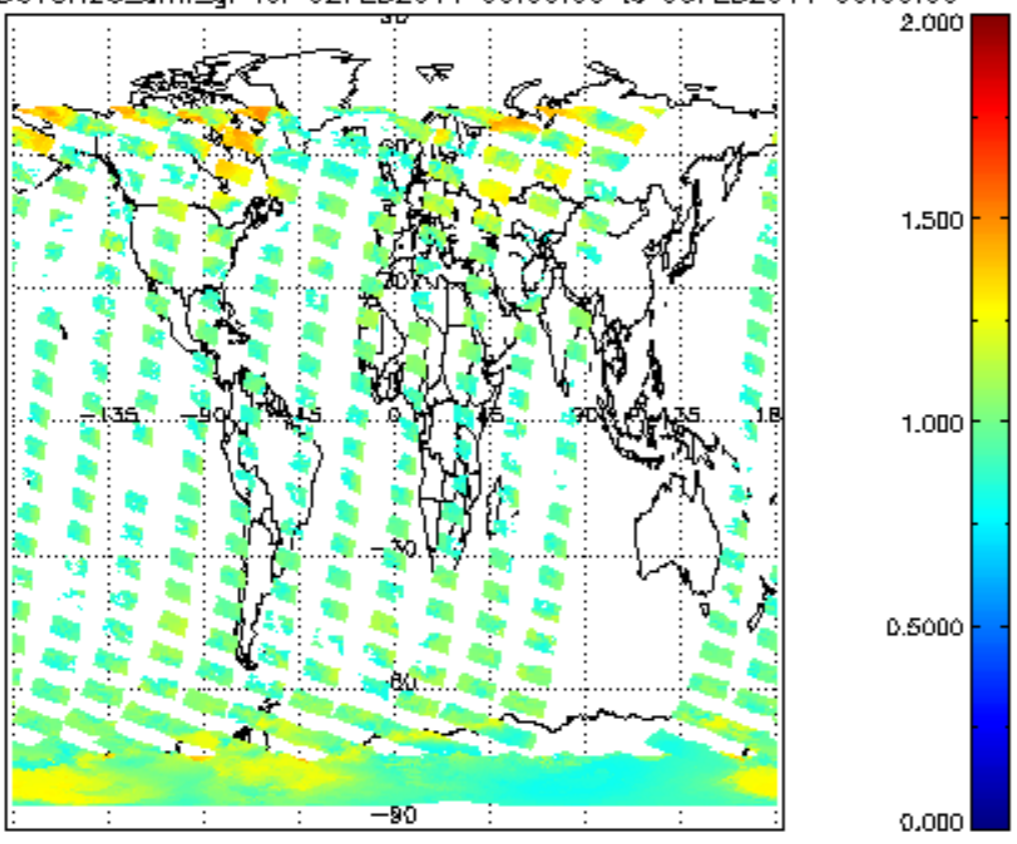
SCIOL2P\_NADUV8H2O\_vcd for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



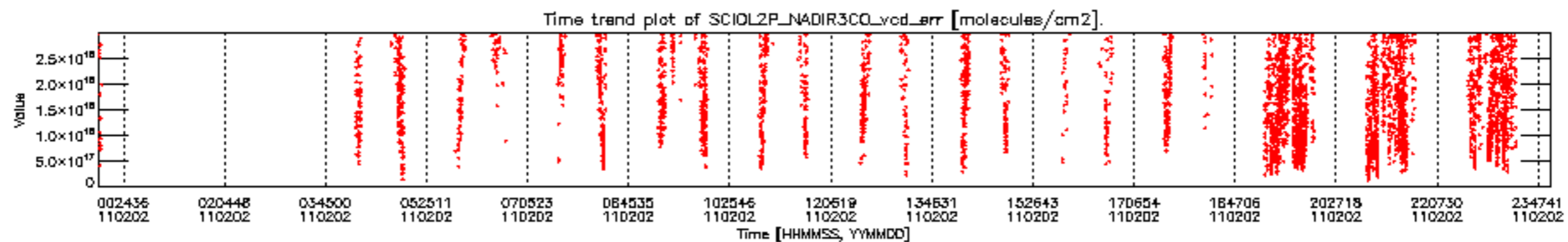
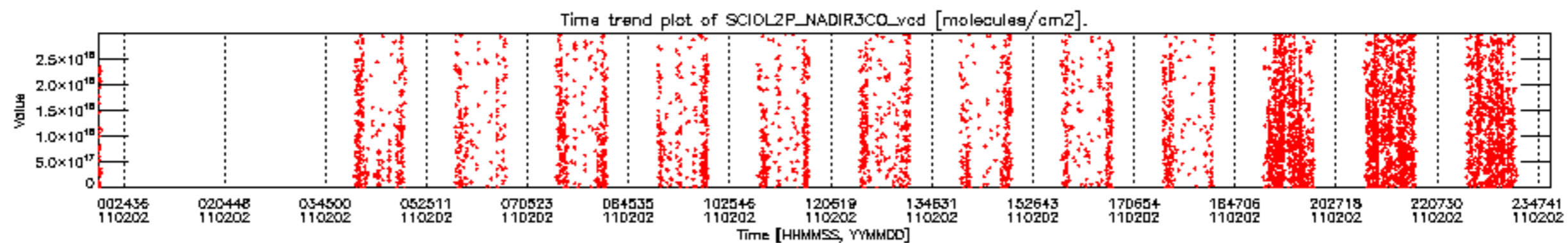
SCIOL2P\_NADUV8H2O\_vcd\_err for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



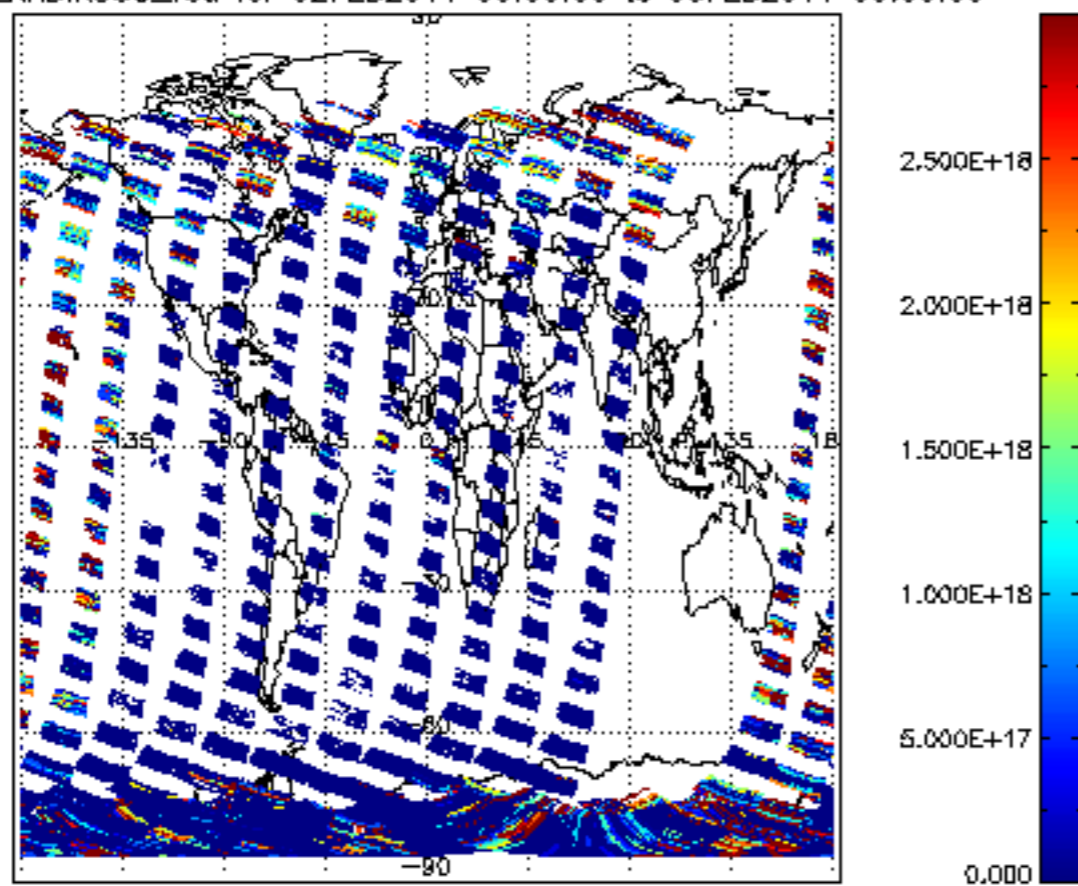
SCIOL2P\_NADUV8H2O\_amf\_gr for 02FEB2011 00:00:00 to 03FEB2011 00:00:00



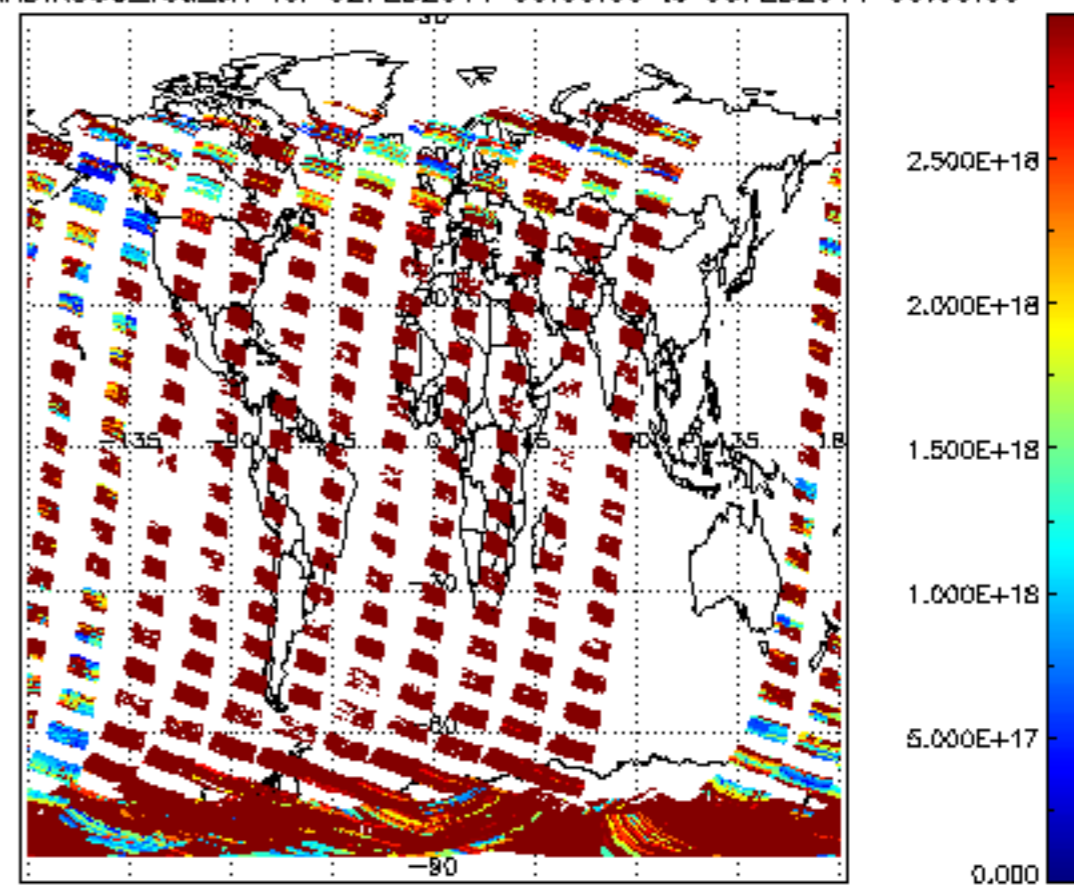




SCIOL2P\_NADIR3CO\_vcd for 02FEB2011 00:00:00 to 03FEB2011 00:00:00

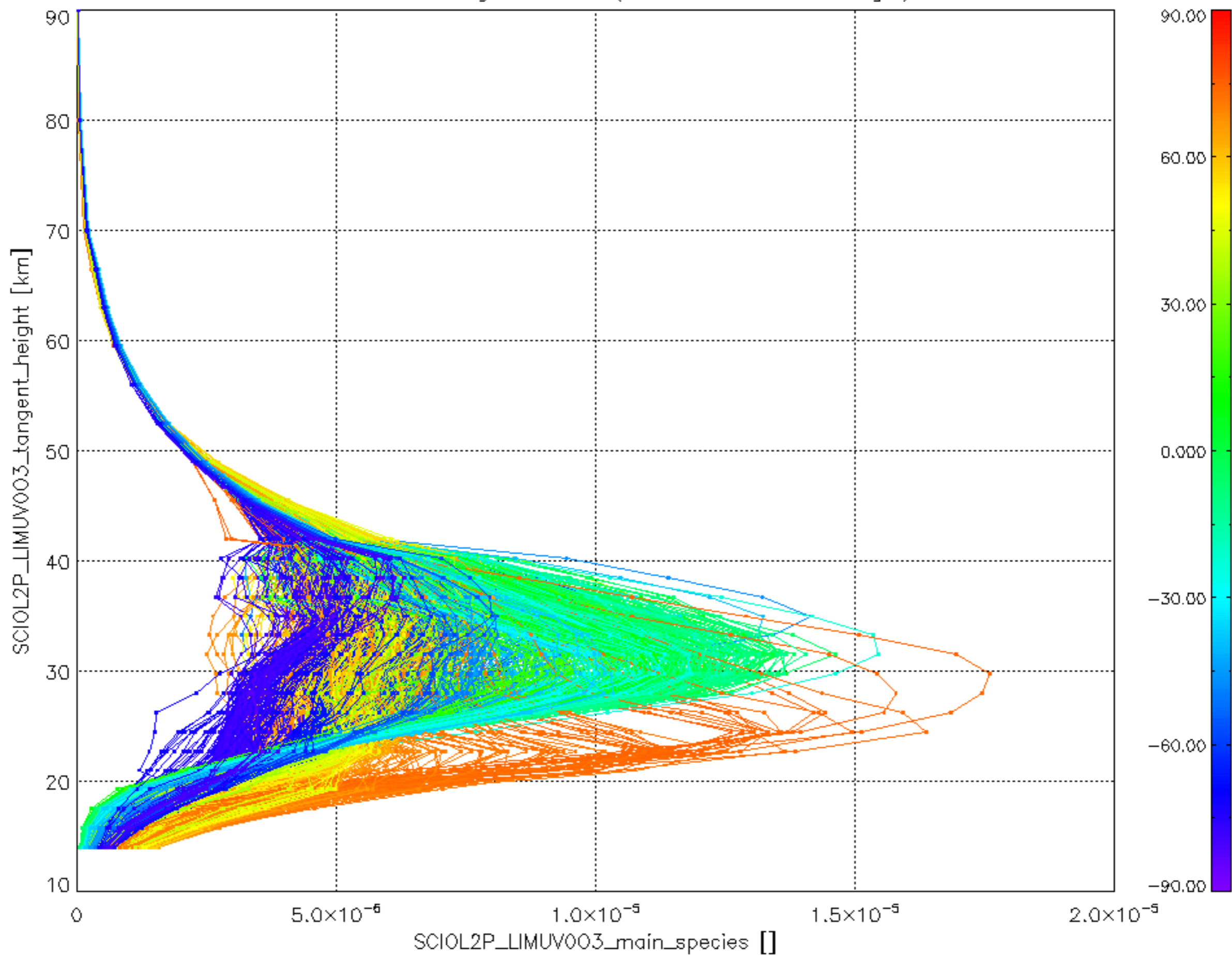


SCIOL2P\_NADIR3CO\_vcd\_err for 02FEB2011 00:00:00 to 03FEB2011 00:00:00

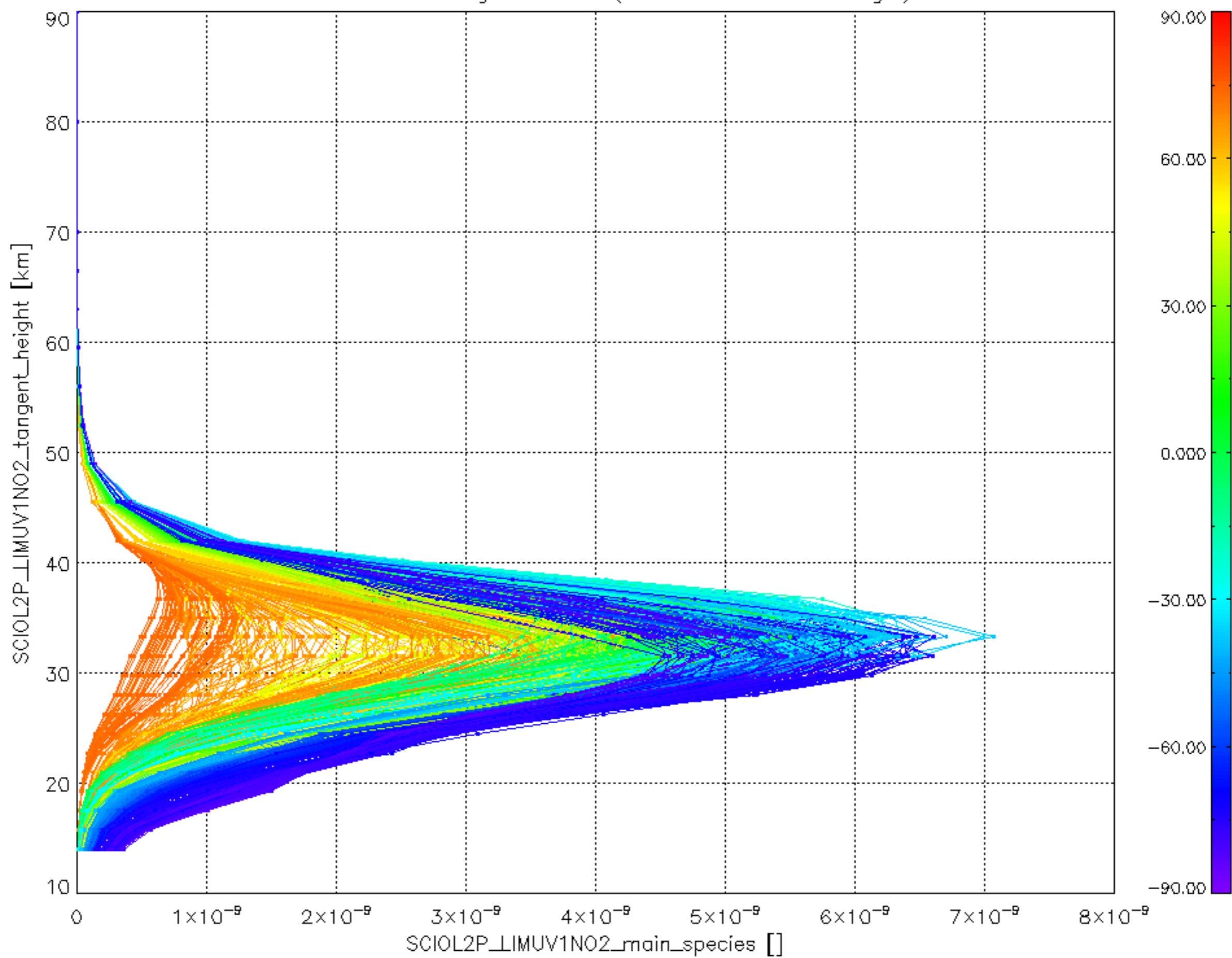




Plot of SCIOL2P\_LIMUV003\_main\_species.tang\_vmr vs. tangent height.  
 Colours indicate tangent latitude (see colour bar on the right).



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).

