



|                   |        |          |          |          |          |        |   |
|-------------------|--------|----------|----------|----------|----------|--------|---|
| PMD_READ          | 116194 | 6.9686   | 8.0000   | 4.0000   | 32.000   | 3.1099 |   |
| PMD_READ_CL[0]    | 116194 | 0.33136  | 0.0000   | 0.0000   | 16.000   | 1.3274 | -   |
| PMD_READ_CL[1]    | 116194 | 0.25576  | 0.0000   | 0.0000   | 32.000   | 1.6740 | -   |
| CL_TOP_HEIGHT     | 107075 | 4.3419   | 3.2001   | 0.0000   | 17.000   | 3.7361 | km  |
| CL_TOP_HEIGHT_ERR | 0      | ---      | ---      | ---      | ---      | ---    | ---   |
| CL_OPT_DEPTH      | 107075 | 49.388   | 32.952   | 0.0000   | 101.00   | 38.610 | km  |
| CL_OPT_DEPTH_ERR  | 0      | ---      | ---      | ---      | ---      | ---    | ---   |
| CL_TYPE_FLAGS     | 116194 | 11100000 | 11100000 | 11100000 | 11100000 | 0.0000 | flags. Bit definition = 0: low or high cloud; 1: ice or water cloud; 2: thick or thin cloud; 3-15: not used |
| CLOUD_FLAGS       | 116194 | 11000101 | 11000010 | 11000000 | 11100000 | 2203.6 | flags   |
| AERO_ABSO_IND     | 116194 | 0.65366  | 0.42518  | -4.0110  | 11.151   | 1.1514 |   |
| AERO_IND_DIAG     | 116194 | 0.0000   | 0.0000   | 0.0000   | 0.0000   | 0.0000 |   |
| AERO_FLAGS        | 116194 | 01100111 | 11000000 | 00000000 | 11000000 | 24499. | flags   |

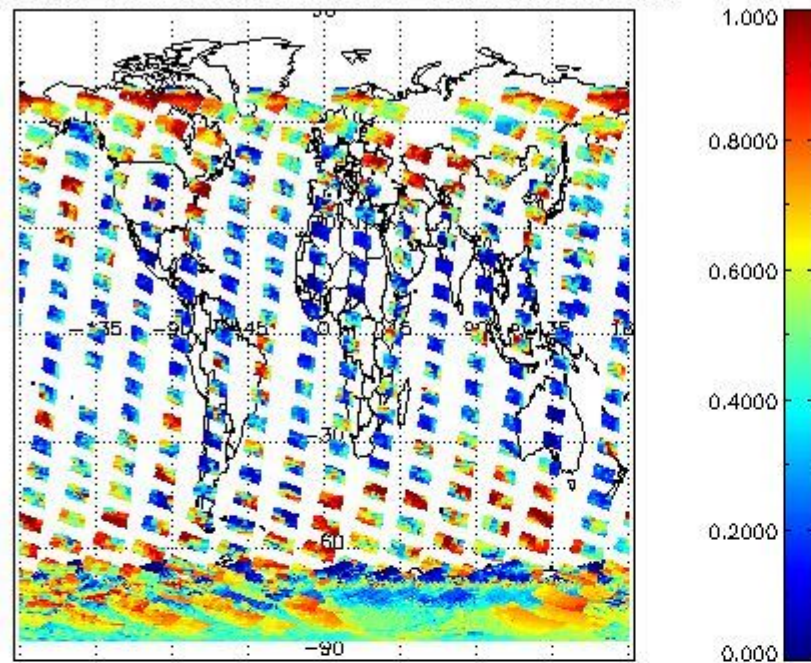
Time and geolocation plots:

Plots are available for the following parameters:

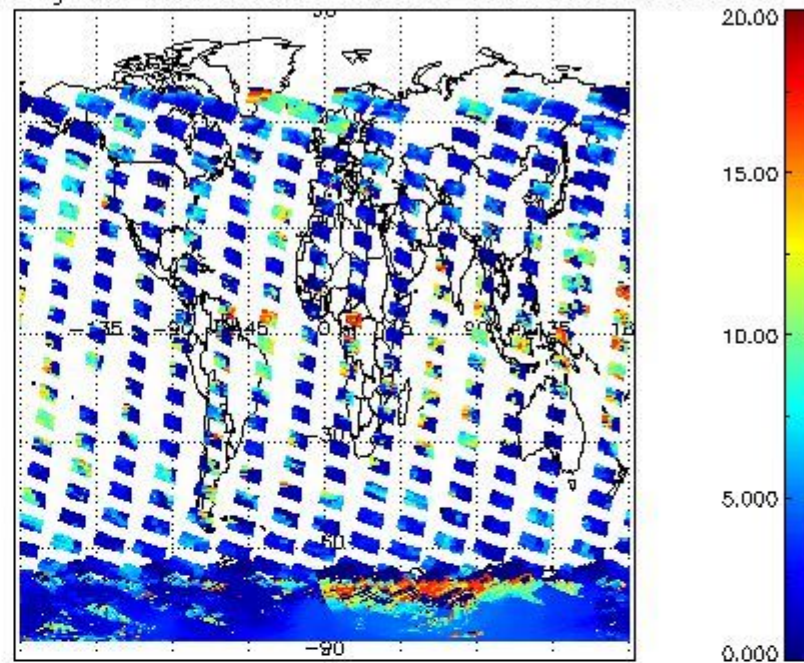
| Number | Data item ID  |
|--------|---------------|
| 0      | cl_frac       |
| 1      | cl_top_height |
| 2      | cl_opt_depth  |
| 3      | cloud_flags   |



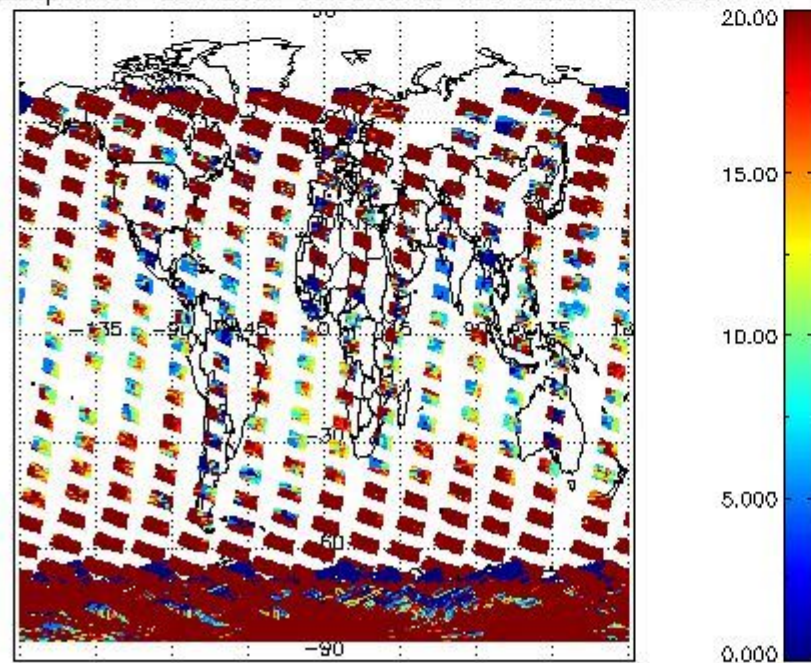
cL\_frac for 18JAN2004 00:00:00 to 19JAN2004 00:00:00



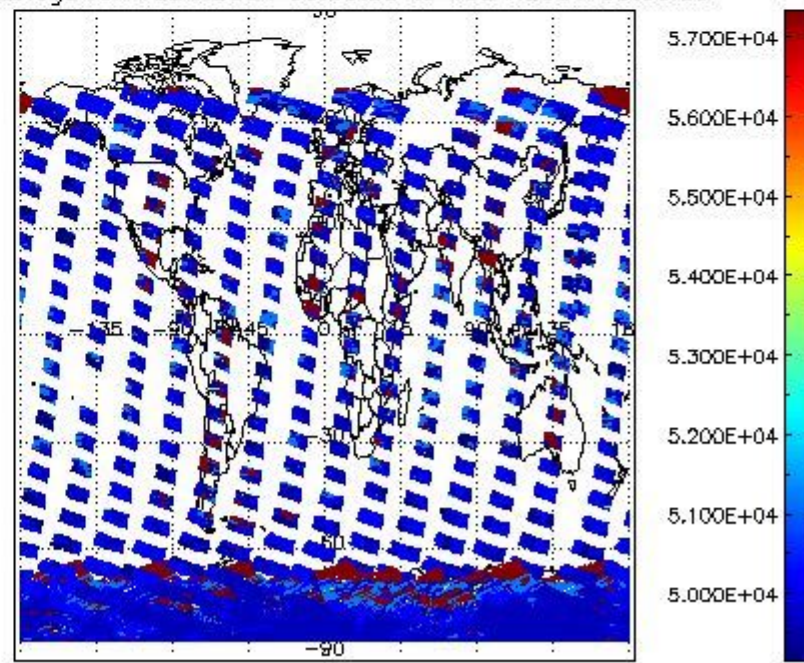
cL\_top\_height for 18JAN2004 00:00:00 to 19JAN2004 00:00:00



cLopt\_depth for 18JAN2004 00:00:00 to 19JAN2004 00:00:00



cloud\_flags for 18JAN2004 00:00:00 to 19JAN2004 00:00:00



### 2.2.2 Nadir

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

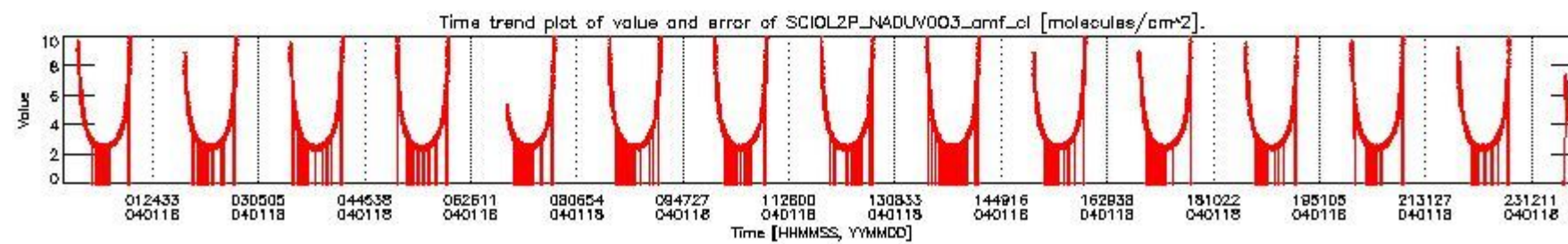
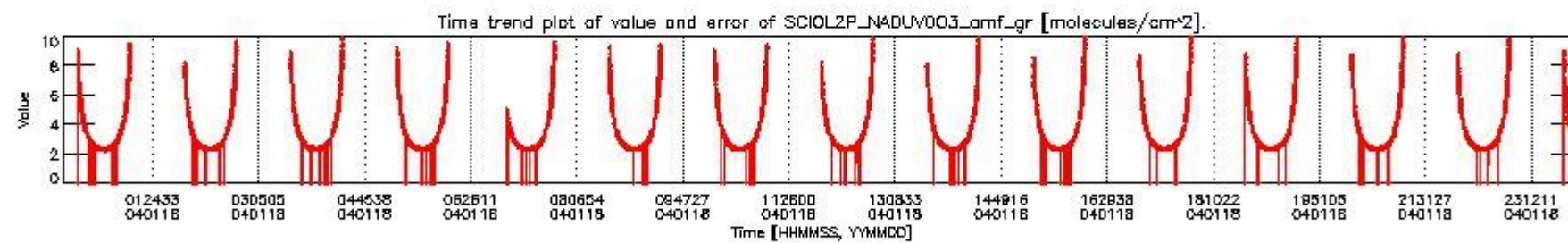
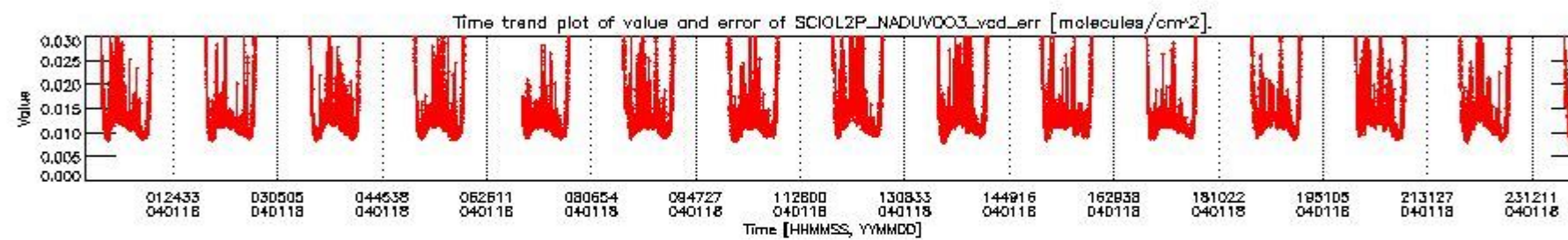
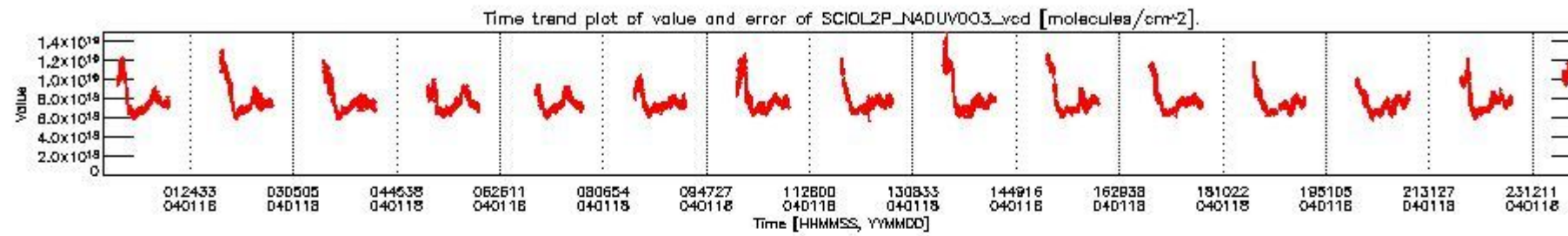
The following data items are currently included into this section:

| Number | Data item ID             |
|--------|--------------------------|
| 0      | SCIOL2P_NADUV003_vcd     |
| 1      | SCIOL2P_NADUV003_vcd_err |
| 2      | SCIOL2P_NADUV003_amf_gr  |
| 3      | SCIOL2P_NADUV003_amf_cl  |



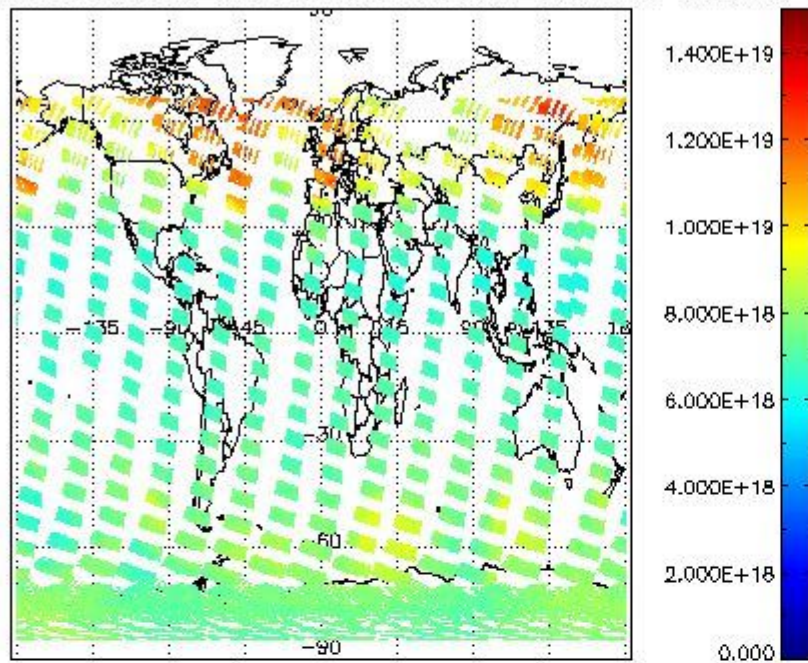
|   |                           |
|---|---------------------------|
| 4 | SCIOL2P_NADUV1NO2_vcd     |
| 5 | SCIOL2P_NADUV1NO2_vcd_err |
| 6 | SCIOL2P_NADUV1NO2_amf_gr  |
| 7 | SCIOL2P_NADUV1NO2_amf_cl  |

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.

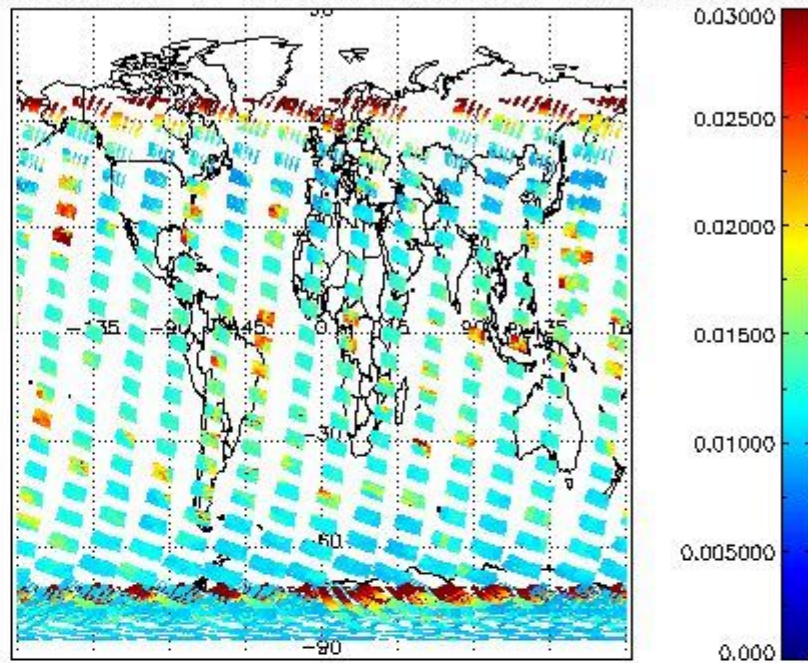




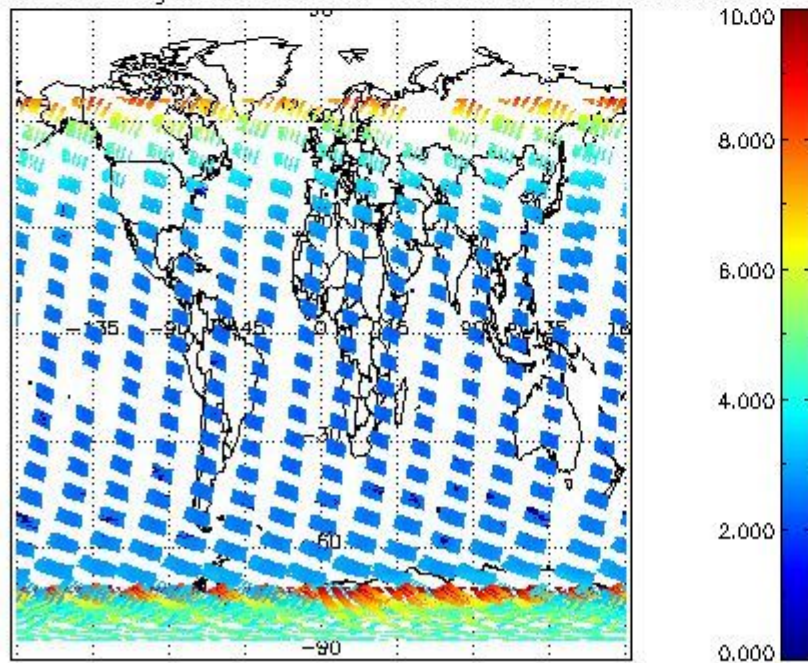
SCIOL2P\_NADUV003\_vcd for 18JAN2004 00:00:00 to 19JAN2004 00:00:00



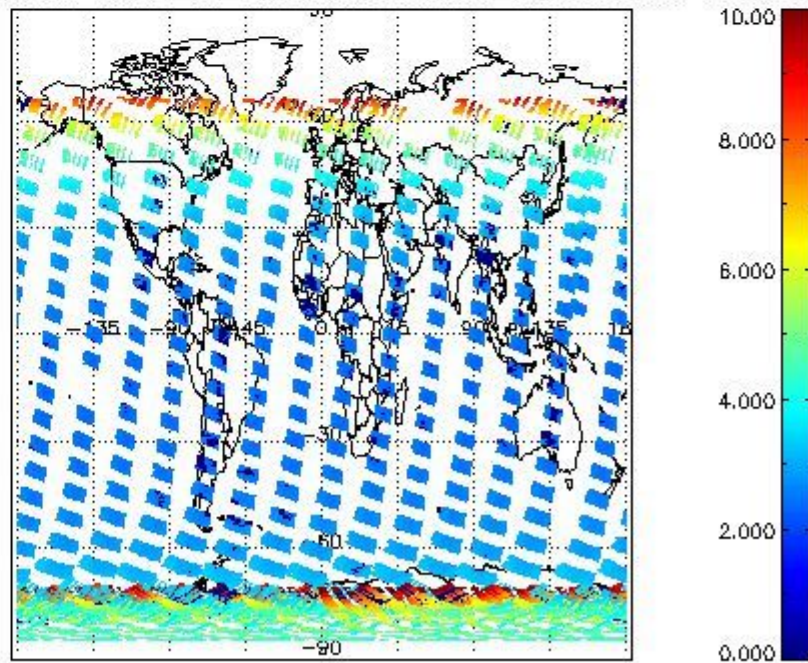
SCIOL2P\_NADUV003\_vcd\_err for 18JAN2004 00:00:00 to 19JAN2004 00:00:00



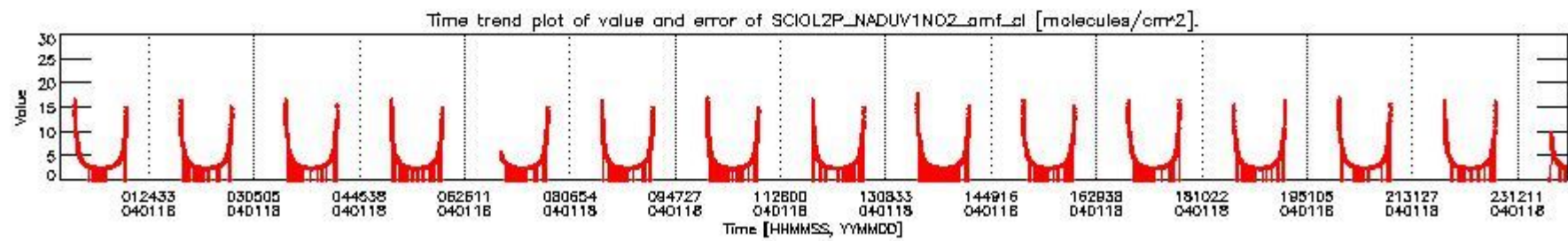
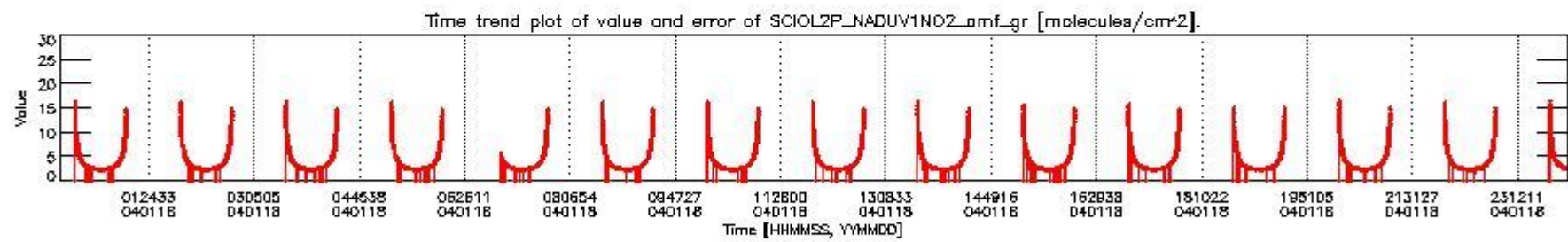
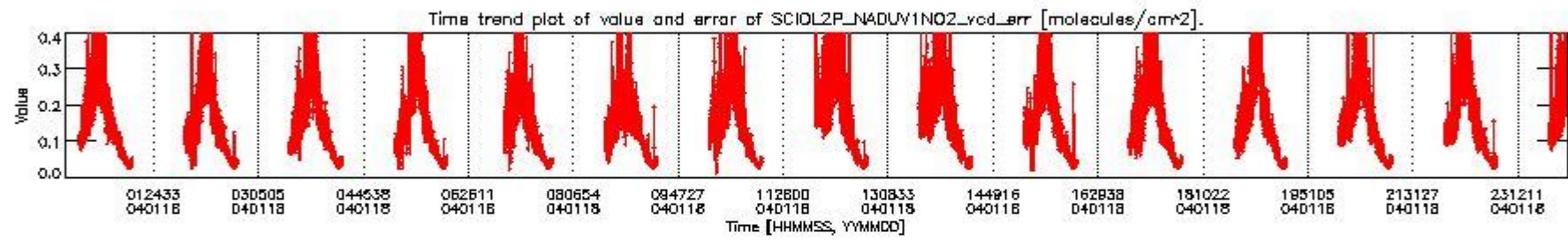
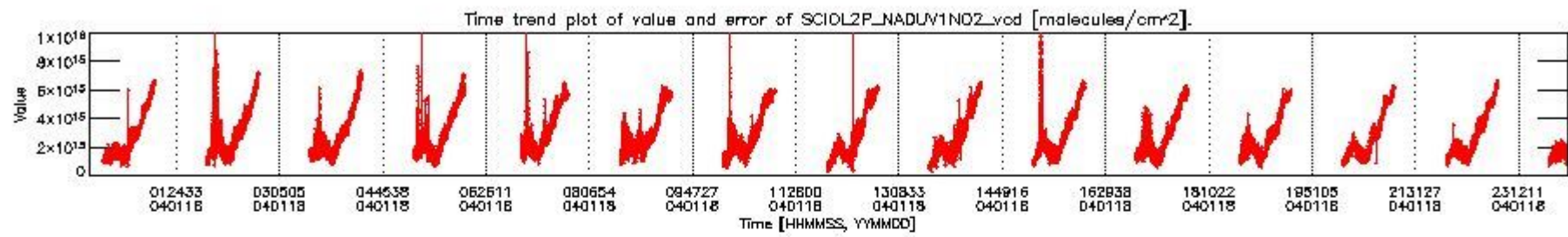
SCIOL2P\_NADUV003\_amf\_gr for 18JAN2004 00:00:00 to 19JAN2004 00:00:00



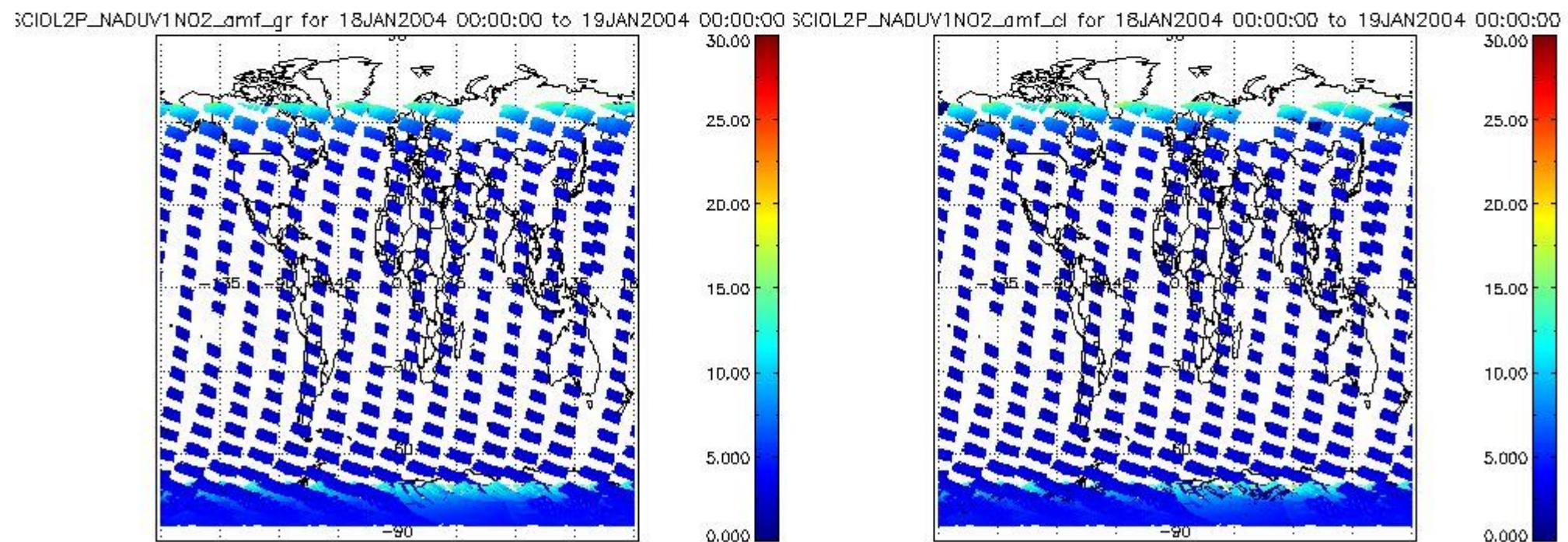
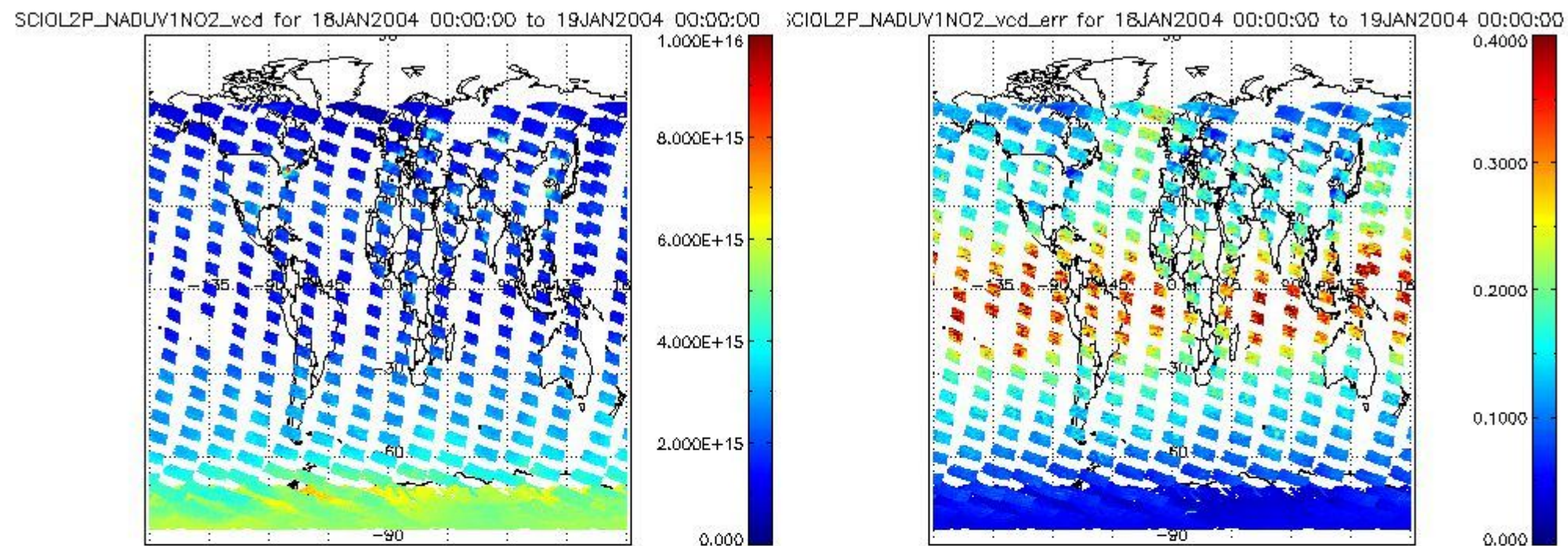
SCIOL2P\_NADUV003\_amf\_cl for 18JAN2004 00:00:00 to 19JAN2004 00:00:00











### 2.2.3 Limb

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

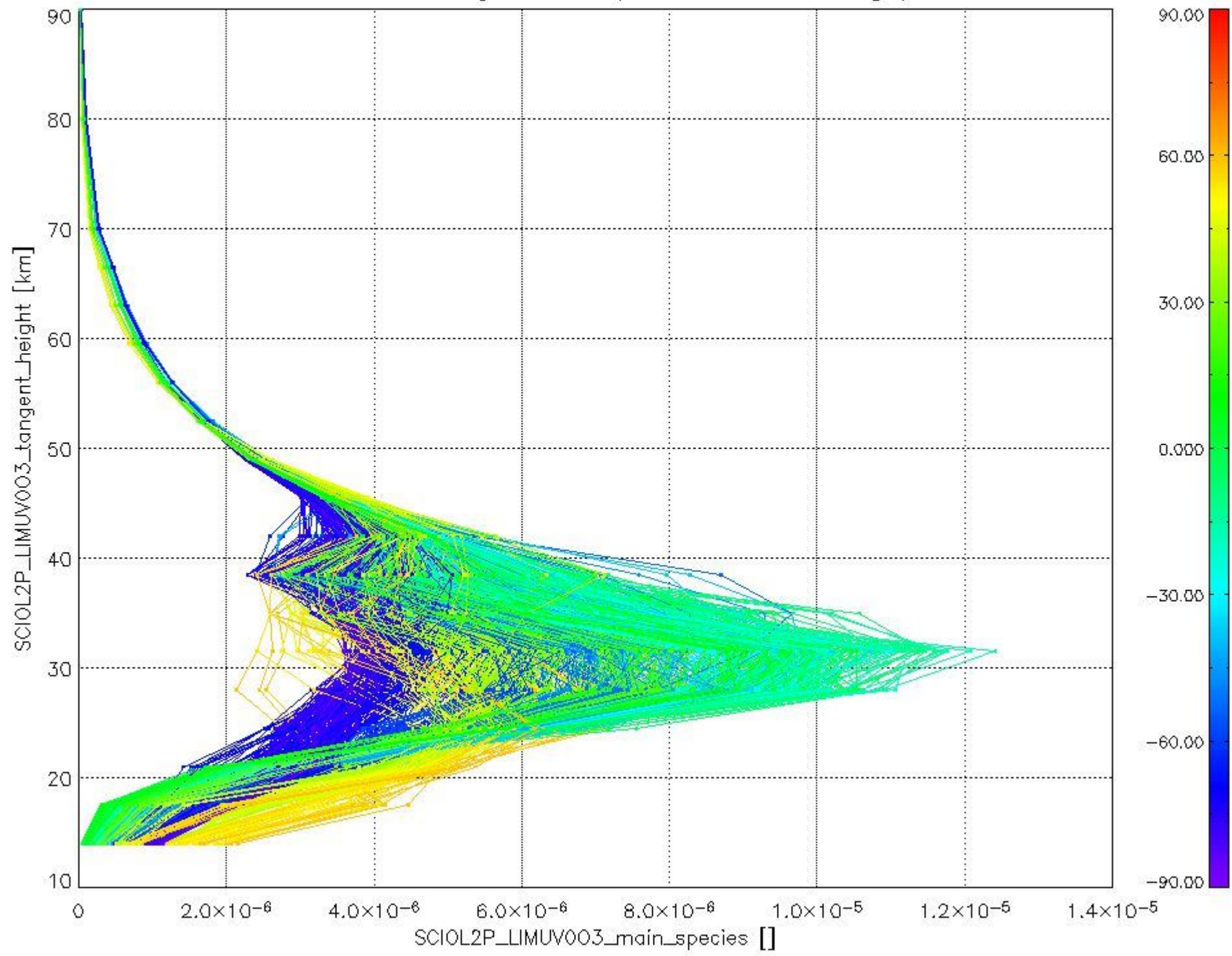
The following data items are currently included into this section:

| Number | Data item ID                  |
|--------|-------------------------------|
| 0      | SCIOL2PLIMUV003_main_species  |
| 1      | SCIOL2PLIMUV1NO2_main_species |

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

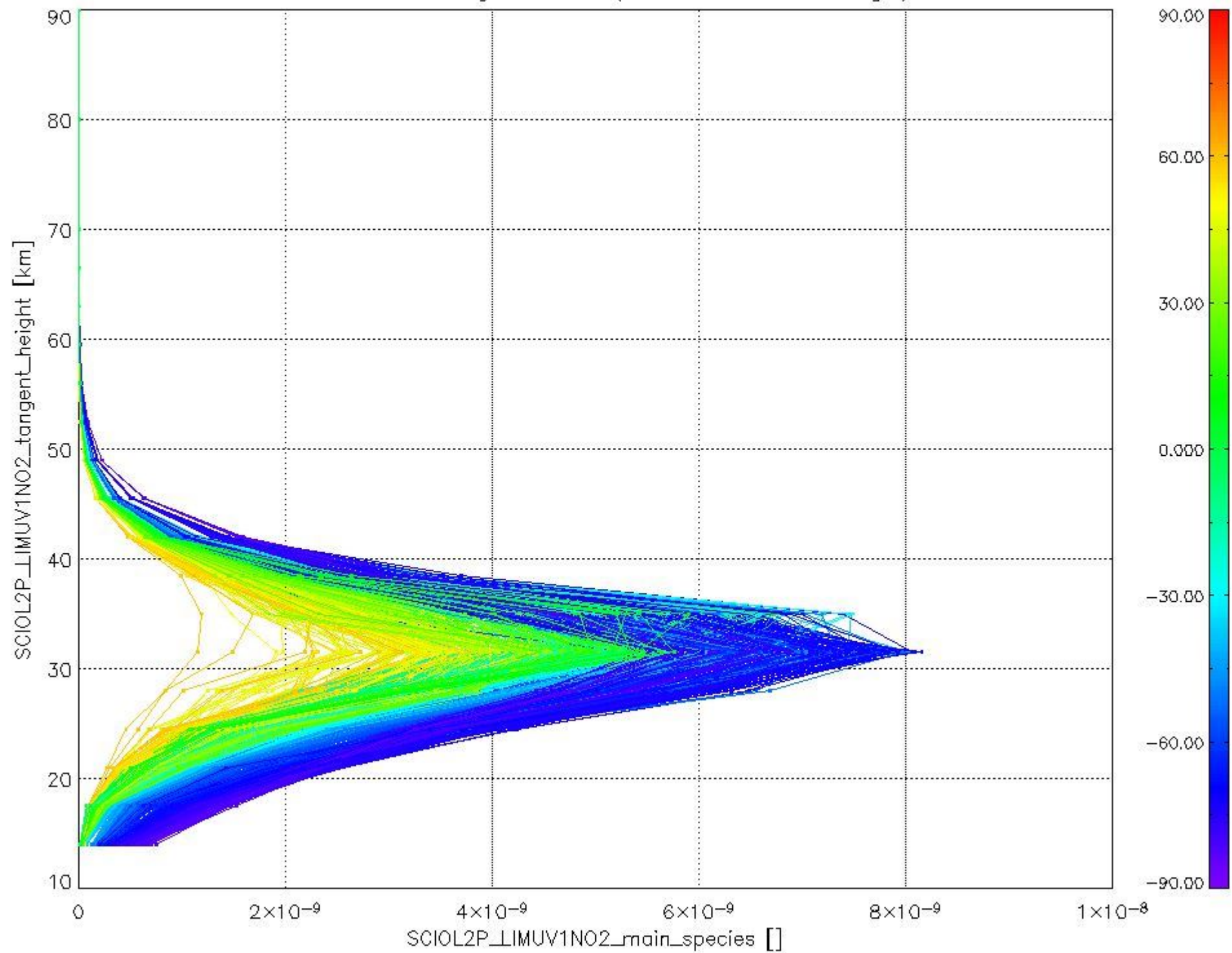


Plot of SCIOL2P\_LIMUV003\_main\_species.tang\_vmr vs. tangent height.  
 Colours indicate tangent latitude (see colour bar on the right).





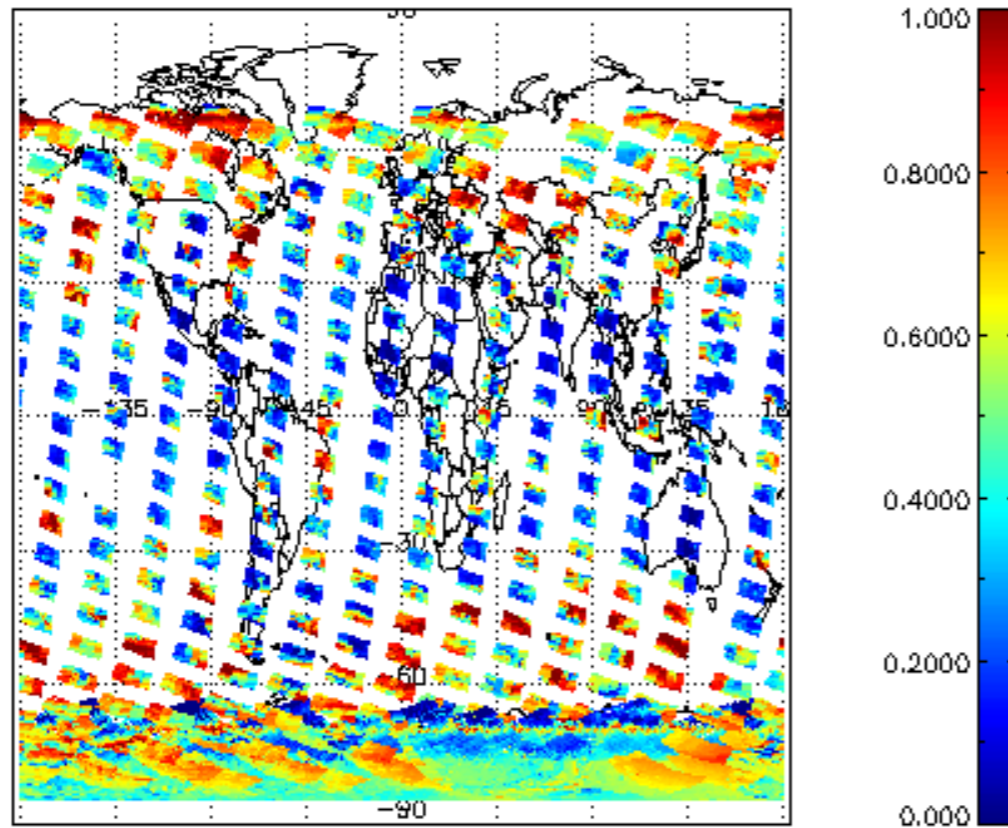
Plot of SCIOL2P\_LIMUV1NO2\_main\_species.tang\_vmr vs. tangent height.  
Colours indicate tangent latitude (see colour bar on the right).



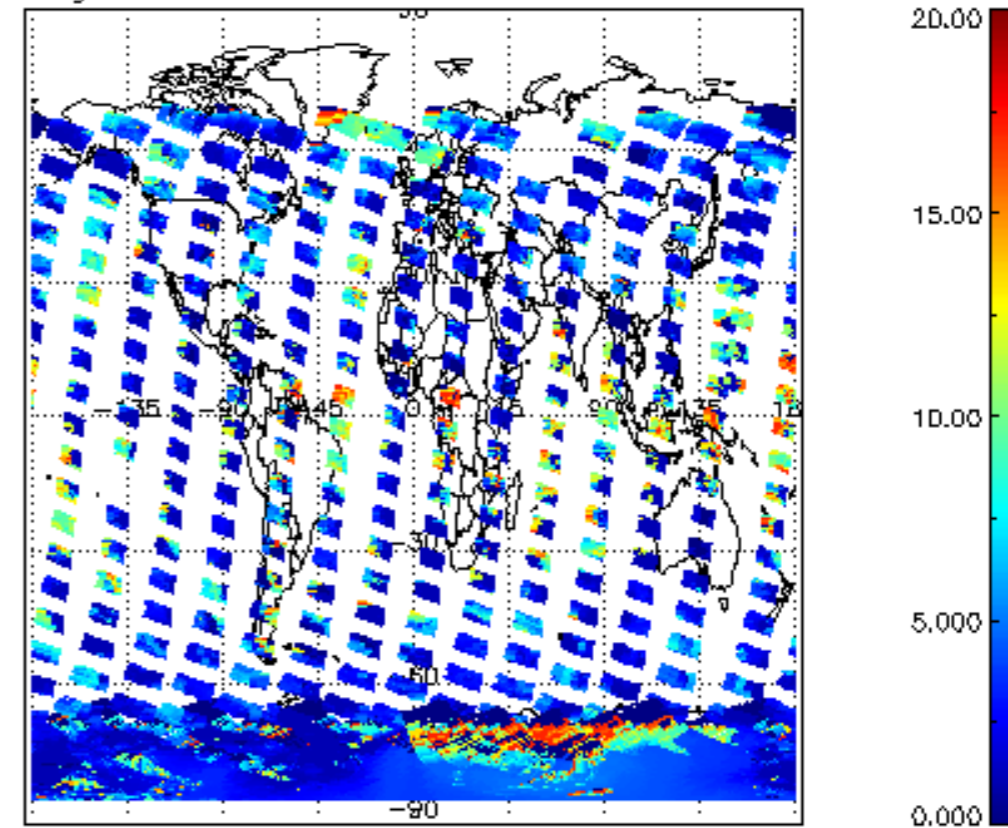
### 2.3 ADF monitoring

| Number | ADF  |
|--------|--|
|        | IN_ (INITIALISATION_FILE)                                    |
| 0      | SCI_IN_AXNPDE20070629_092400_20070720_000000_20991231_235959 |
|        | ECF (ECMWF_FILE)   |
| 1      | NOT USED   |

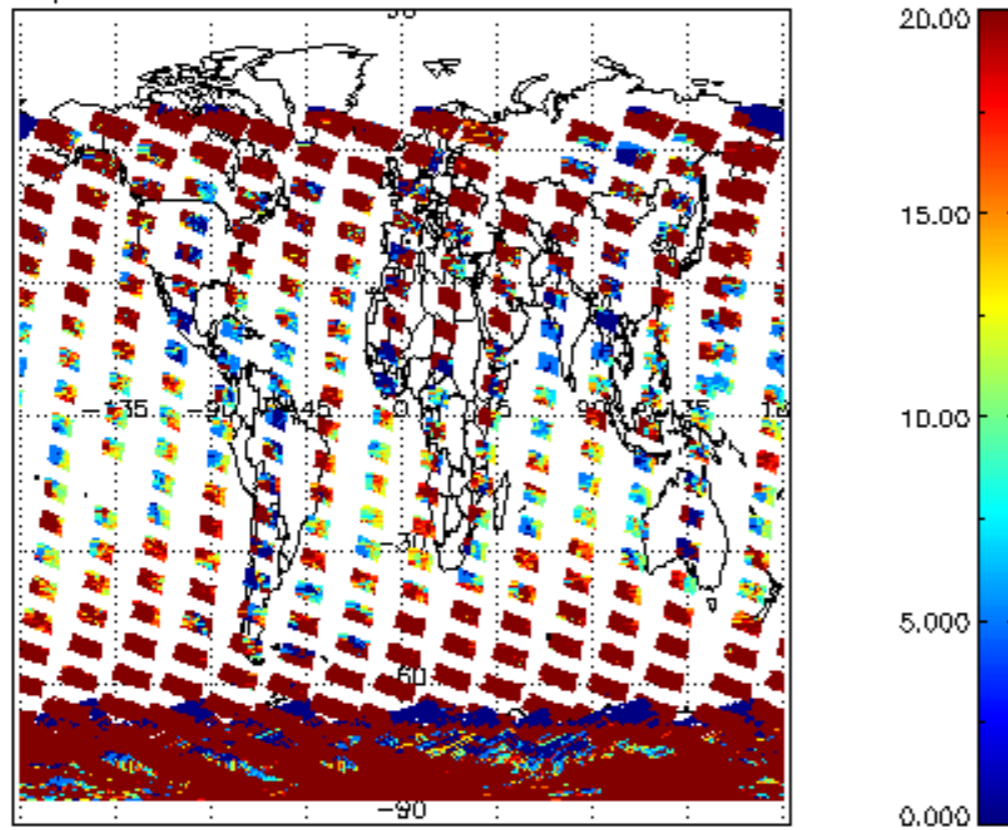
cL\_frac for 18JAN2004 00:00:00 to 19JAN2004 00:00:00



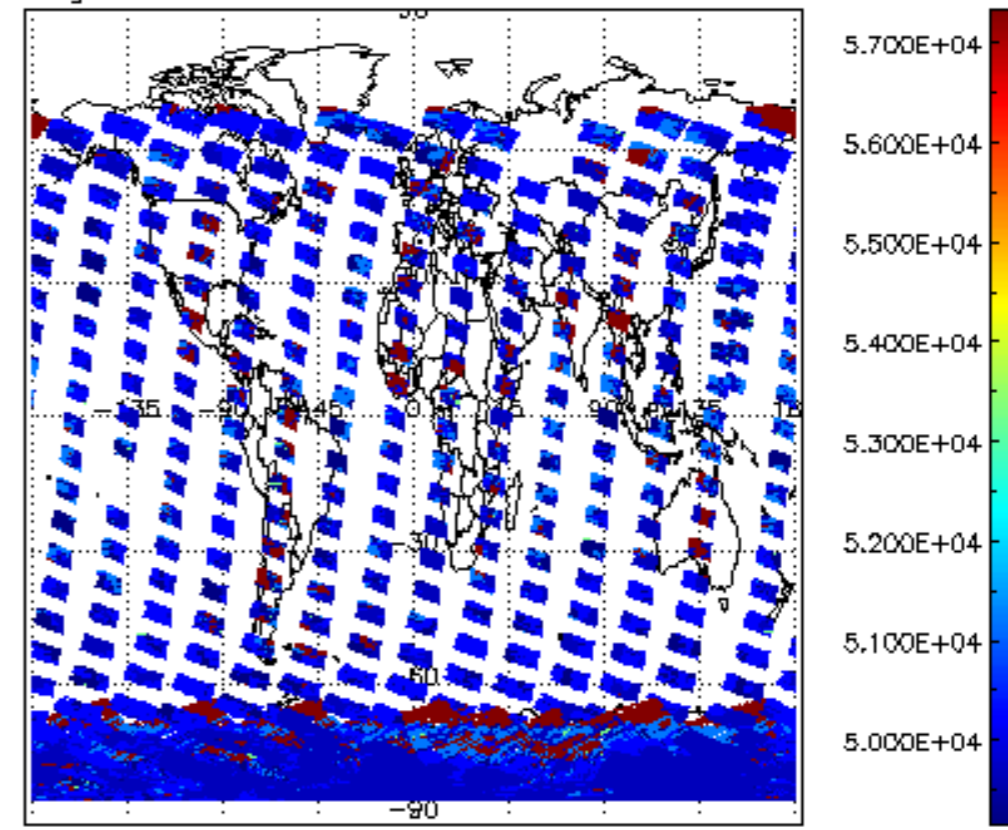
cL\_top\_height for 18JAN2004 00:00:00 to 19JAN2004 00:00:00



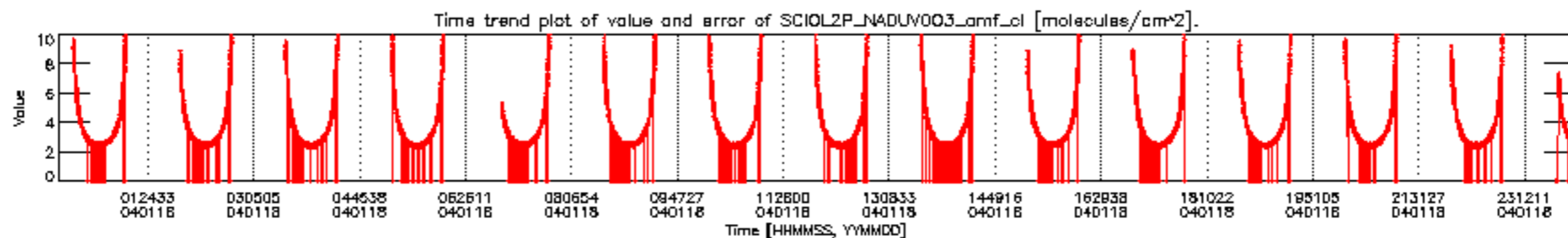
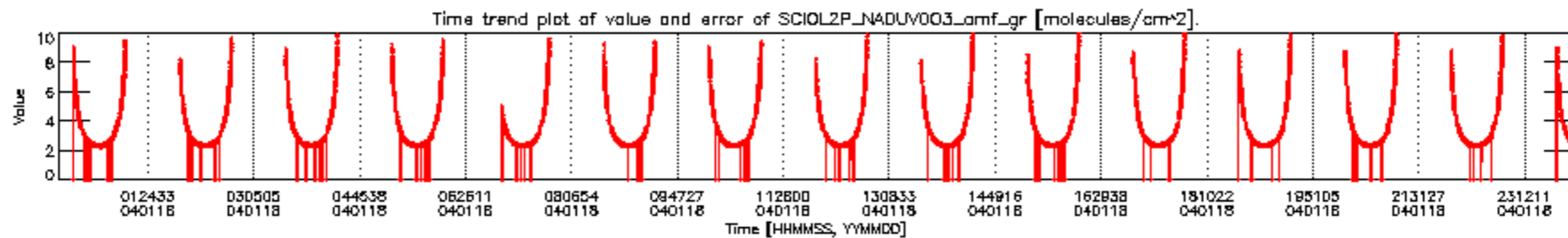
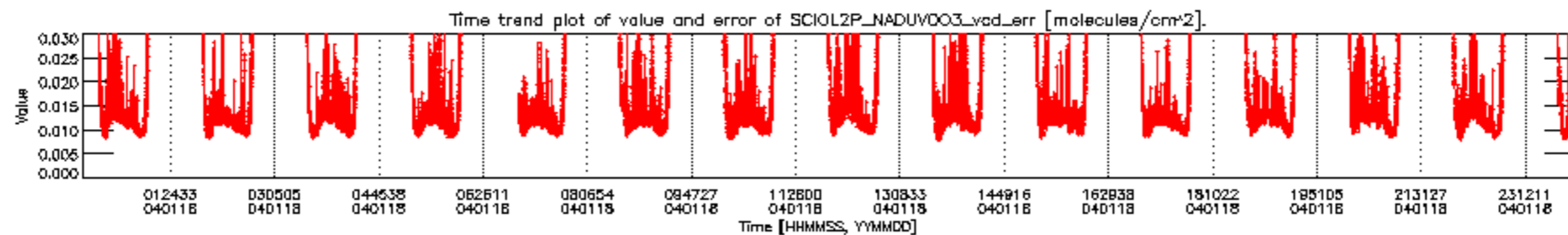
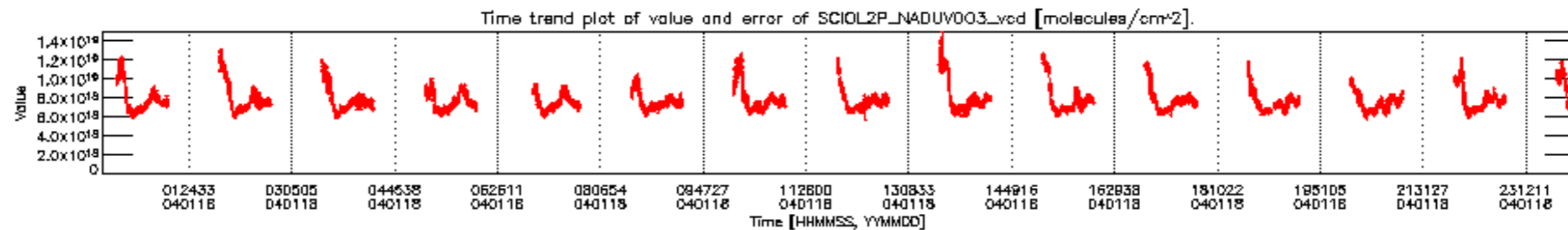
cL\_opt\_depth for 18JAN2004 00:00:00 to 19JAN2004 00:00:00



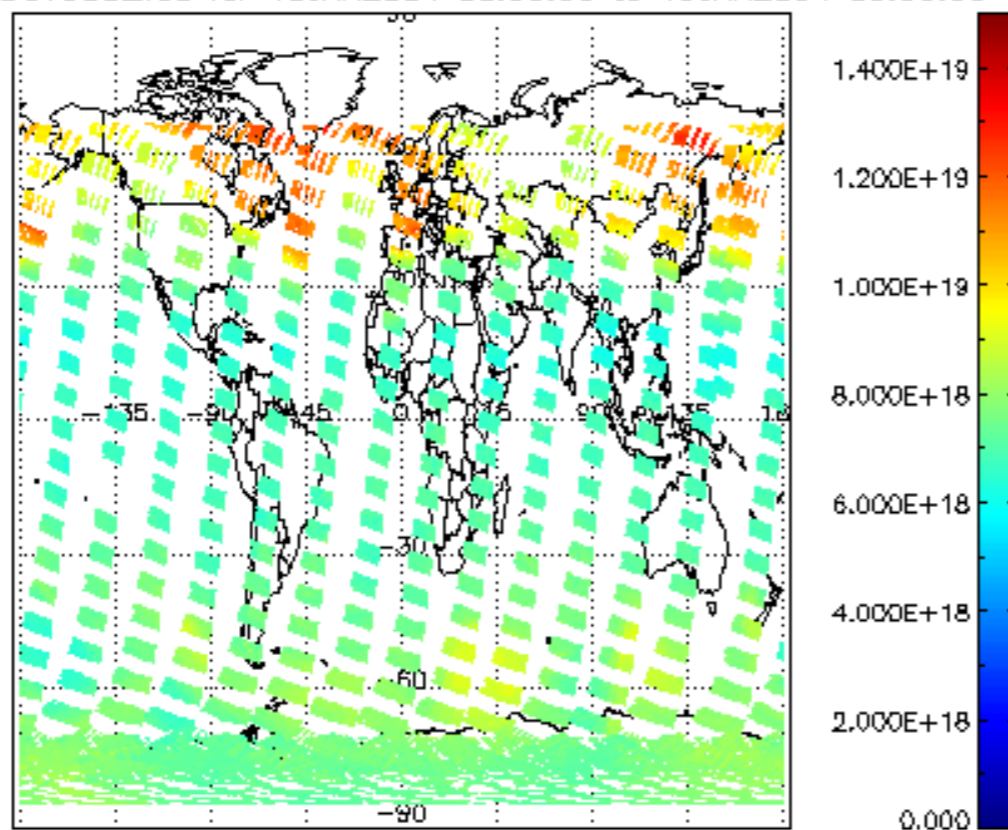
cloud\_flags for 18JAN2004 00:00:00 to 19JAN2004 00:00:00



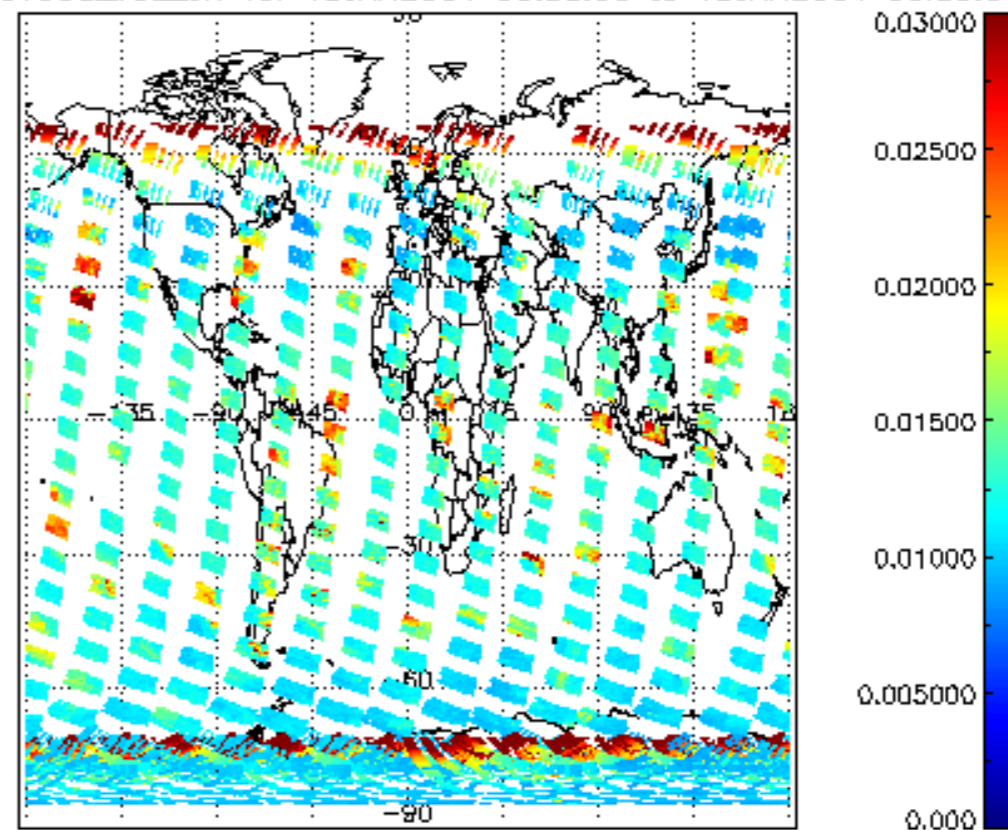




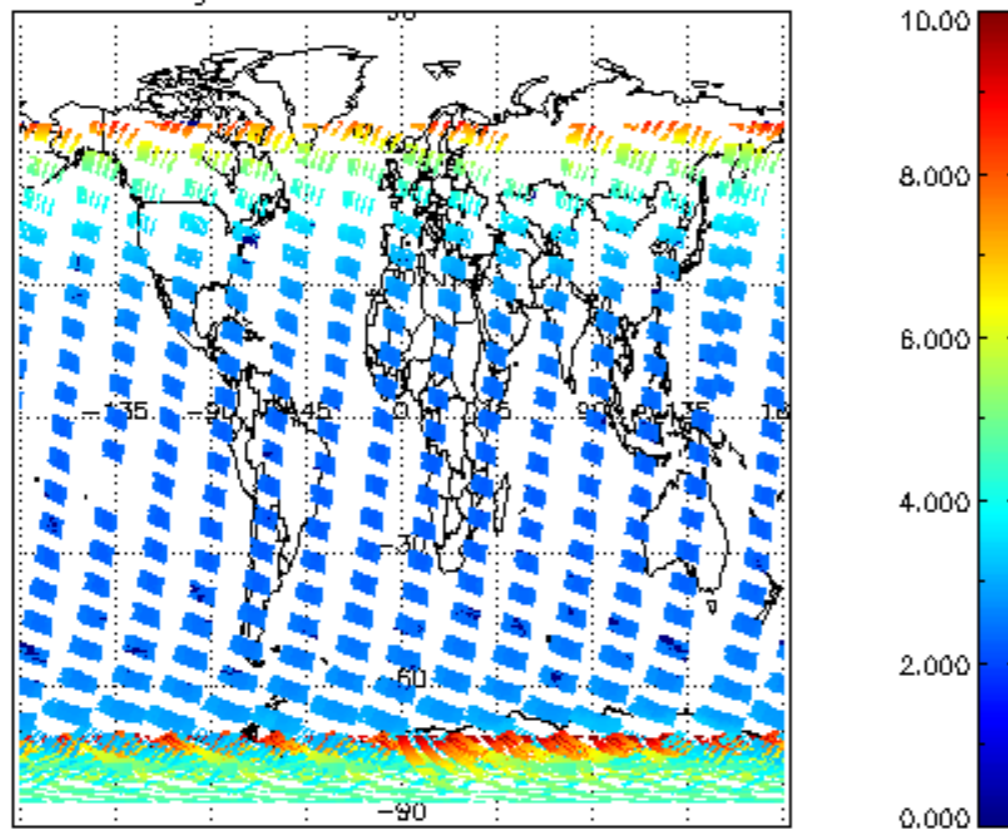
SCIOL2P\_NADUV003\_vcd for 18JAN2004 00:00:00 to 19JAN2004 00:00:00



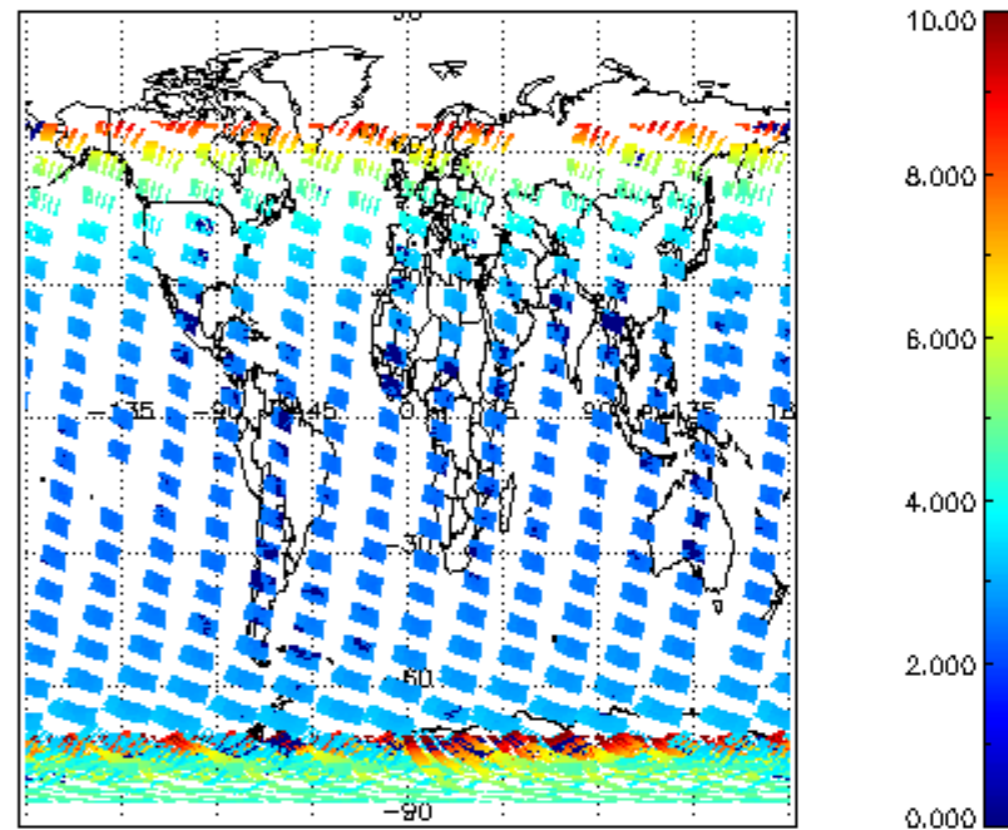
SCIOL2P\_NADUV003\_vcd\_err for 18JAN2004 00:00:00 to 19JAN2004 00:00:00



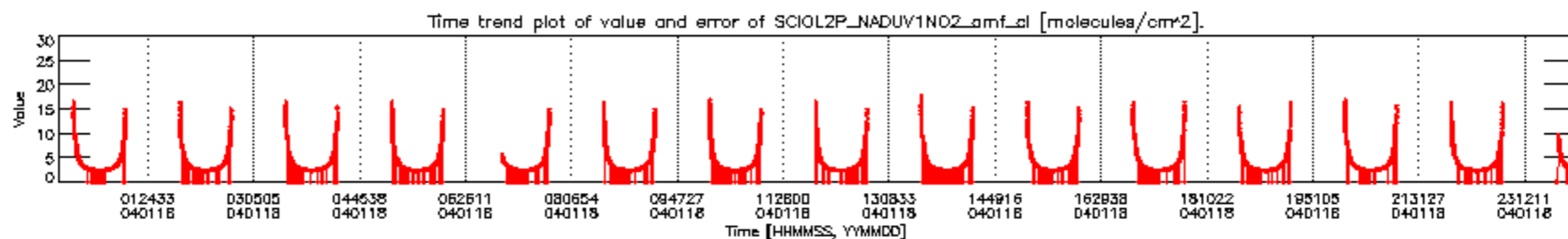
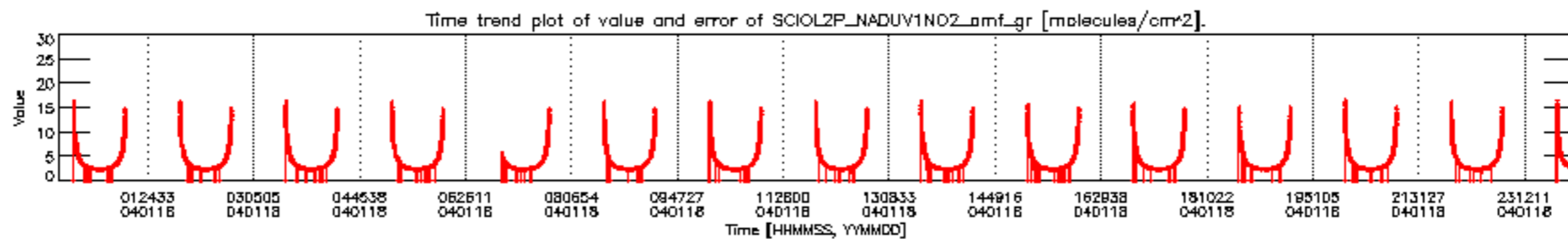
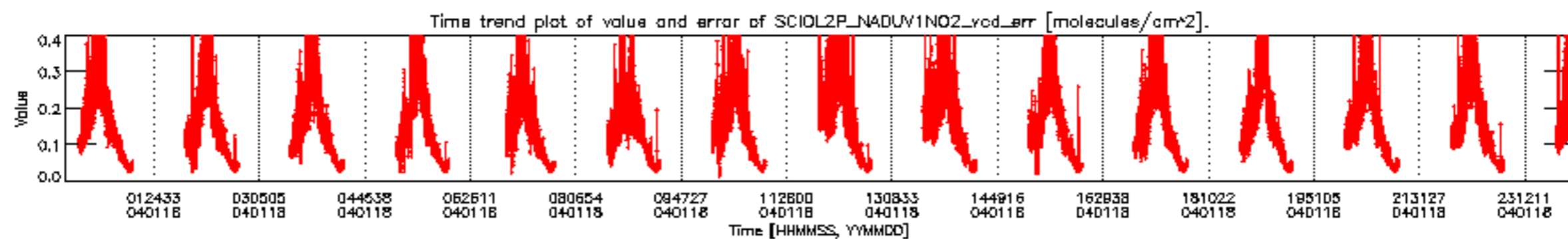
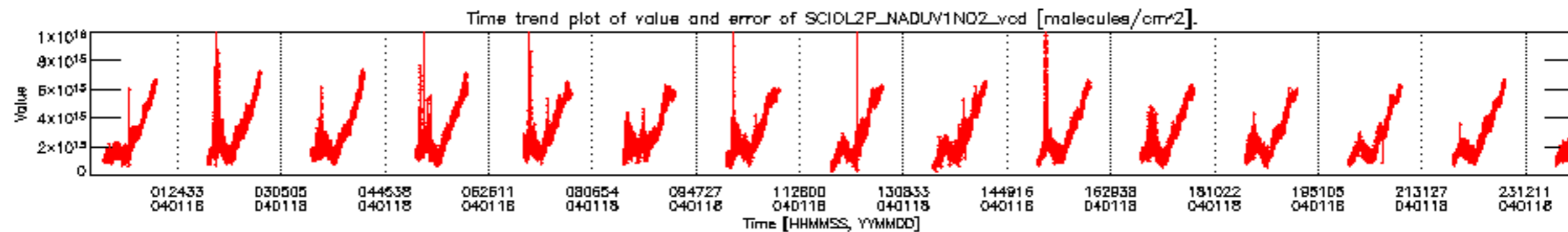
SCIOL2P\_NADUV003\_amf\_gr for 18JAN2004 00:00:00 to 19JAN2004 00:00:00



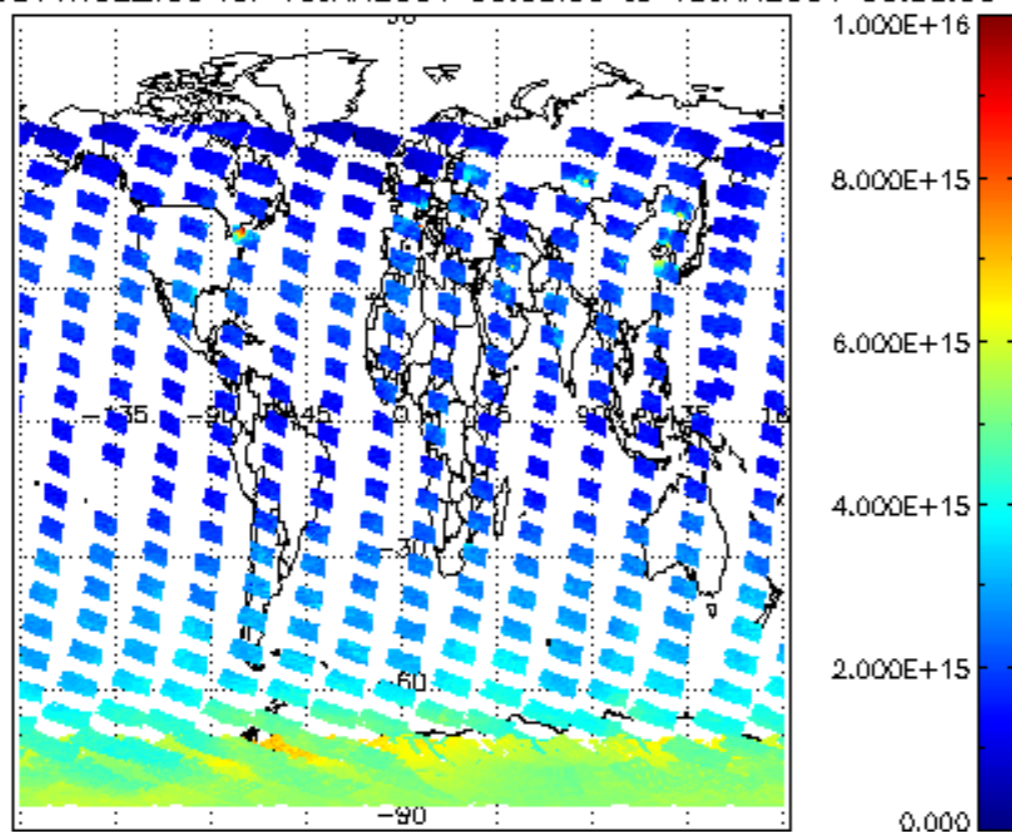
SCIOL2P\_NADUV003\_amf\_cl for 18JAN2004 00:00:00 to 19JAN2004 00:00:00



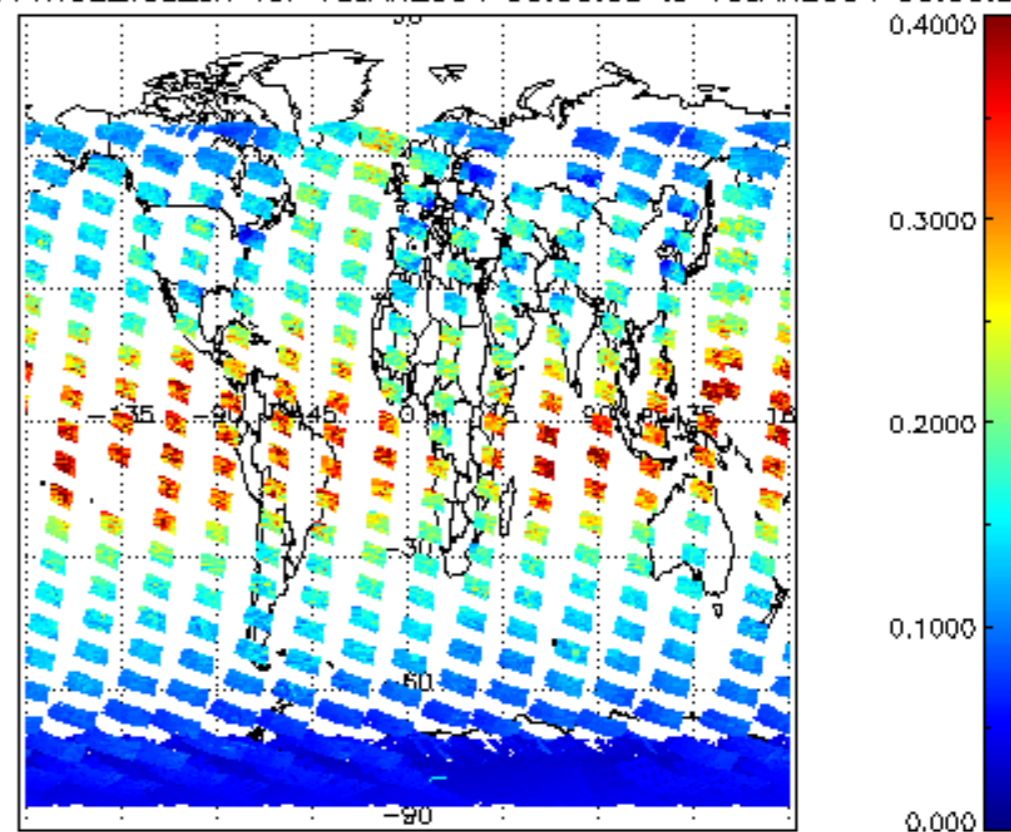




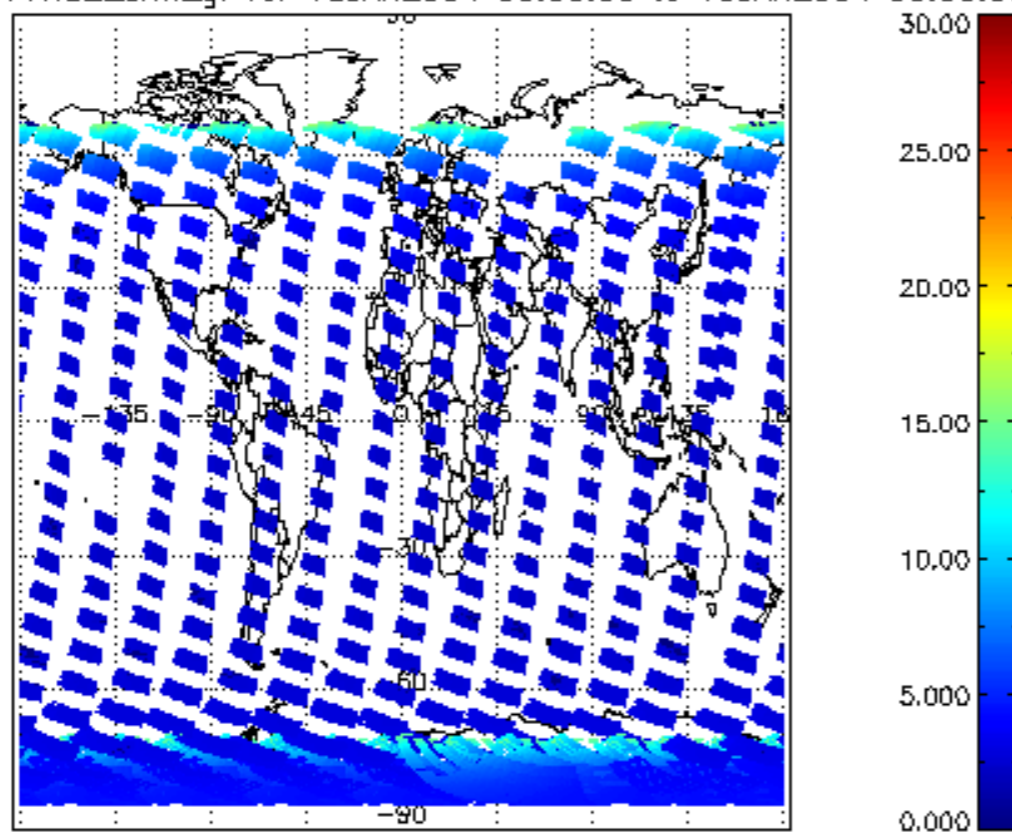
SCIOL2P\_NADUV1NO2\_vcd for 18JAN2004 00:00:00 to 19JAN2004 00:00:00



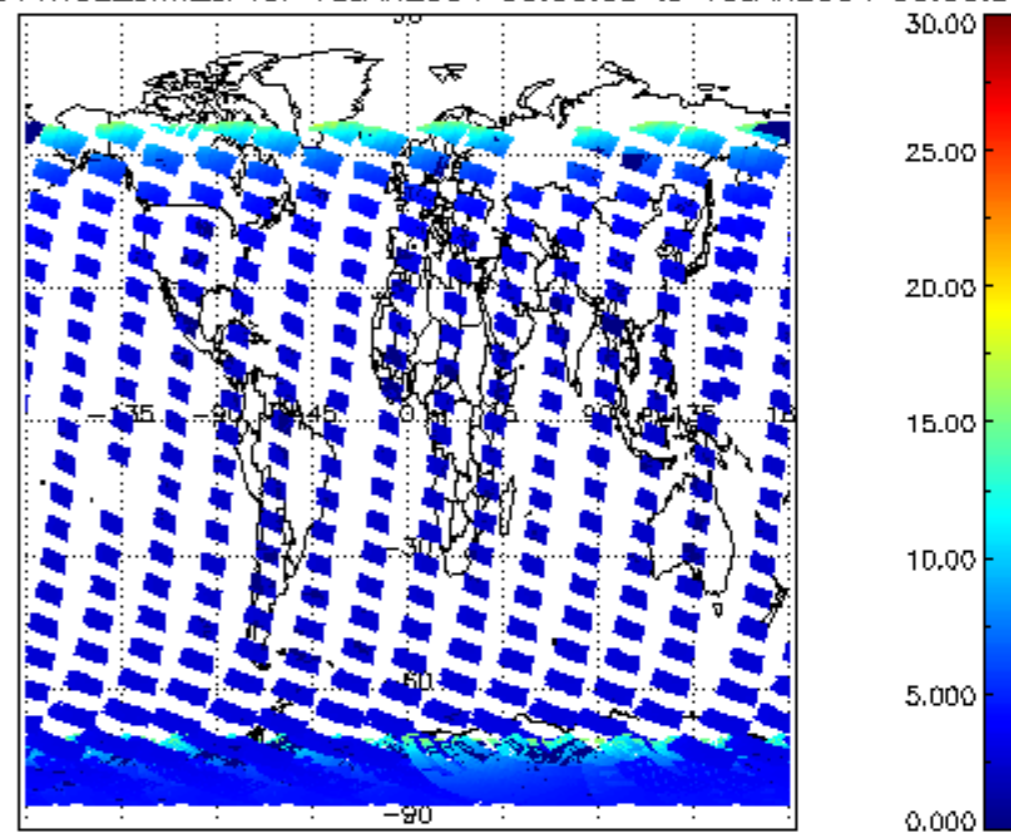
SCIOL2P\_NADUV1NO2\_vcd\_err for 18JAN2004 00:00:00 to 19JAN2004 00:00:00



SCIOL2P\_NADUV1NO2\_amf\_gr for 18JAN2004 00:00:00 to 19JAN2004 00:00:00

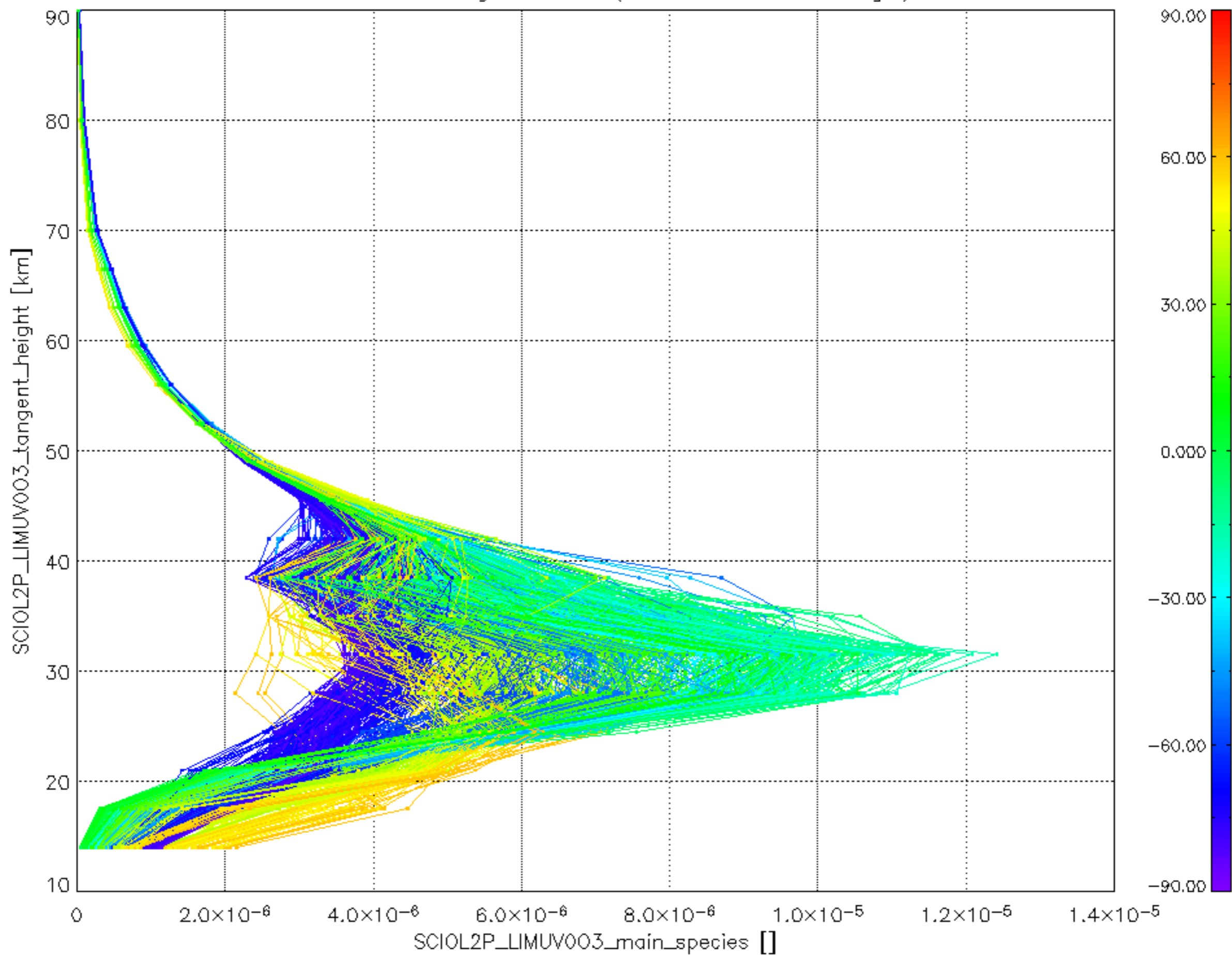


SCIOL2P\_NADUV1NO2\_amf\_cl for 18JAN2004 00:00:00 to 19JAN2004 00:00:00





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).

