

# GOMOS Level 2 Daily Report

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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM\_NL\_\_2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

| Item                      | Value                           |
|---------------------------|---------------------------------|
| Time of report generation | 24APR2013 06:01:43              |
| Data source version       | GOMOS/6.01                      |
| Start time of products    | 20-11-2006 (20NOV2006 00:00:00) |
| Stop time of products     | 21-11-2006 (21NOV2006 00:00:00) |
| Store outputs in DB       | Yes                             |
| Nb of level 2 prods       | 285                             |
| Nb of prods with errors   | 1                               |

## 2. Summary of processed GOM\_NL\_\_2P products.

| Nr | Filename   | UTC Start time       | Limb       | Duration | Star Id | Star Name | Star Mag | Star Temp | Nb Meas | Orbit | Prod. error |
|----|--|----------------------|------------|----------|---------|-----------|----------|-----------|---------|-------|-------------|
| 1  | GOM_NL__2PRFIN20061120_000346_000000442053_00088_24691_1474.N1 | 20-NOV-2006 00:03:46 | Dark       | 43.500   | 2       | Alp Car   | -0.73600 | 7000.0    | 87      | 24691 | No          |
| 2  | GOM_NL__2PRFIN20061120_001204_000000312053_00088_24691_1475.N1 | 20-NOV-2006 00:12:04 | Straylight | 31.000   | 157     | The1Eri   | 2.9060   | 9300.0    | 62      | 24691 | No          |
| 3  | GOM_NL__2PRFIN20061120_002444_000000432053_00088_24691_1476.N1 | 20-NOV-2006 00:24:44 | Twilight   | 42.500   | 94      | 92Alp Cet | 2.5260   | 3100.0    | 85      | 24691 | No          |
| 4  | GOM_NL__2PRFIN20061120_002940_000000312053_00088_24691_1477.N1 | 20-NOV-2006 00:29:40 | Bright     | 31.000   | 105     | 6Bet Ari  | 2.6450   | 8900.0    | 62      | 24691 | No          |
| 5  | GOM_NL__2PRFIN20061120_003334_000000292053_00088_24691_1478.N1 | 20-NOV-2006 00:33:34 | Bright     | 29.000   | 173     | 4Bet Tri  | 3.0040   | 8900.0    | 58      | 24691 | No          |
| 6  | GOM_NL__2PRFIN20061120_003538_000000312053_00088_24691_1479.N1 | 20-NOV-2006 00:35:38 | Bright     | 31.000   | 73      | 57Gam1And | 2.2600   | 13100.    | 62      | 24691 | No          |
| 7  | GOM_NL__2PRFIN20061120_003827_000000322053_00088_24691_1480.N1 | 20-NOV-2006 00:38:27 | Bright     | 31.500   | 35      | 33Alp Per | 1.7950   | 6250.0    | 63      | 24691 | No          |
| 8  | GOM_NL__2PRFIN20061120_004045_000000302053_00088_24691_1481.N1 | 20-NOV-2006 00:40:45 | Bright     | 30.000   | 110     | 37Del Cas | 2.6780   | 8900.0    | 60      | 24691 | No          |
| 9  | GOM_NL__2PRFIN20061120_004853_000000292053_00088_24691_1482.N1 | 20-NOV-2006 00:48:53 | Bright     | 28.500   | 49      | 1Alp UMi  | 1.9900   | 6300.0    | 57      | 24691 | No          |
| 10 | GOM_NL__2PRFIN20061120_005320_000000302053_00088_24691_1483.N1 | 20-NOV-2006 00:53:20 | Bright     | 29.500   | 60      | 7Bet UMi  | 2.0810   | 3950.0    | 59      | 24691 | No          |
| 11 | GOM_NL__2PRFIN20061120_005852_000000322053_00088_24691_1484.N1 | 20-NOV-2006 00:58:52 | Bright     | 32.000   | 32      | 77Eps UMa | 1.7630   | 11000.    | 64      | 24691 | No          |
| 12 | GOM_NL__2PRFIN20061120_010037_000000292053_00088_24691_1485.N1 | 20-NOV-2006 01:00:37 | Bright     | 28.500   | 39      | 85Eta UMa | 1.8540   | 24000.    | 57      | 24691 | No          |
| 13 | GOM_NL__2PRFIN20061120_010406_000000302053_00088_24691_1486.N1 | 20-NOV-2006 01:04:06 | Bright     | 30.000   | 152     | 12Alp2CVn | 2.8900   | 11000.    | 60      | 24691 | No          |
| 14 | GOM_NL__2PRFIN20061120_011159_000000292053_00088_24691_1487.N1 | 20-NOV-2006 01:11:59 | Bright     | 29.000   | 138     | 47Eps Vir | 2.8280   | 4700.0    | 58      | 24691 | No          |
| 15 | GOM_NL__2PRFIN20061120_011554_000000332053_00088_24691_1488.N1 | 20-NOV-2006 01:15:54 | Bright     | 32.500   | 121     | 29Gam Vir | 2.7400   | 7200.0    | 65      | 24691 | No          |
| 16 | GOM_NL__2PRFIN20061120_012105_000000392053_00088_24691_1489.N1 | 20-NOV-2006 01:21:05 | Twilight   | 39.000   | 100     | 4Gam Crv  | 2.5800   | 13100.    | 78      | 24691 | No          |
| 17 | GOM_NL__2PRFIN20061120_012238_000000402053_00088_24691_1490.N1 | 20-NOV-2006 01:22:38 | Twilight   | 40.000   | 171     | 2Eps Crv  | 3.0010   | 4250.0    | 80      | 24691 | No          |
| 18 | GOM_NL__2PRFIN20061120_012943_000000322053_00088_24691_1491.N1 | 20-NOV-2006 01:29:43 | Dark       | 31.500   | 99      | Del Cen   | 2.5750   | 26000.    | 63      | 24691 | No          |
| 19 | GOM_NL__2PRFIN20061120_013159_000000372053_00088_24691_1492.N1 | 20-NOV-2006 01:31:59 | Dark       | 36.500   | 113     | Mu Vel    | 2.6920   | 5000.0    | 73      | 24691 | No          |
| 20 | GOM_NL__2PRFIN20061120_013442_000000312053_00089_24692_1341.N1 | 20-NOV-2006 01:34:42 | Dark       | 30.500   | 124     | The Car   | 2.7640   | 30000.    | 61      | 24692 | No          |
| 21 | GOM_NL__2PRFIN20061120_013851_000000382053_00089_24692_1342.N1 | 20-NOV-2006 01:38:51 | Dark       | 37.500   | 41      | Eps Car   | 1.8600   | 4100.0    | 75      | 24692 | No          |
| 22 | GOM_NL__2PRFIN20061120_014422_000000432053_00089_24692_1343.N1 | 20-NOV-2006 01:44:22 | Dark       | 42.500   | 2       | Alp Car   | -0.73600 | 7000.0    | 85      | 24692 | No          |
| 23 | GOM_NL__2PRFIN20061120_015240_000000332053_00089_24692_1344.N1 | 20-NOV-2006 01:52:40 | Straylight | 32.500   | 157     | The1Eri   | 2.9060   | 9300.0    | 65      | 24692 | No          |
| 24 | GOM_NL__2PRFIN20061120_020520_000000442053_00089_24692_1345.N1 | 20-NOV-2006 02:05:20 | Twilight   | 44.000   | 94      | 92Alp Cet | 2.5260   | 3100.0    | 88      | 24692 | No          |
| 25 | GOM_NL__2PRFIN20061120_021016_000000312053_00089_24692_1346.N1 | 20-NOV-2006 02:10:16 | Bright     | 30.500   | 105     | 6Bet Ari  | 2.6450   | 8900.0    | 61      | 24692 | No          |
| 26 | GOM_NL__2PRFIN20061120_021410_000000302053_00089_24692_1347.N1 | 20-NOV-2006 02:14:10 | Bright     | 29.500   | 173     | 4Bet Tri  | 3.0040   | 8900.0    | 59      | 24692 | No          |
| 27 | GOM_NL__2PRFIN20061120_021614_000000312053_00089_24692_1348.N1 | 20-NOV-2006 02:16:14 | Bright     | 31.000   | 73      | 57Gam1And | 2.2600   | 13100.    | 62      | 24692 | No          |
| 28 | GOM_NL__2PRFIN20061120_021903_000000322053_00089_24692_1349.N1 | 20-NOV-2006 02:19:03 | Bright     | 32.000   | 35      | 33Alp Per | 1.7950   | 6250.0    | 64      | 24692 | No          |
| 29 | GOM_NL__2PRFIN20061120_022121_000000282053_00089_24692_1350.N1 | 20-NOV-2006 02:21:21 | Bright     | 28.000   | 110     | 37Del Cas | 2.6780   | 8900.0    | 56      | 24692 | No          |
| 30 | GOM_NL__2PRFIN20061120_022928_000000262053_00089_24692_1351.N1 | 20-NOV-2006 02:29:28 | Bright     | 26.000   | 49      | 1Alp UMi  | 1.9900   | 6300.0    | 52      | 24692 | No          |
| 31 | GOM_NL__2PRFIN20061120_023356_000000312053_00089_24692_1352.N1 | 20-NOV-2006 02:33:56 | Bright     | 31.000   | 60      | 7Bet UMi  | 2.0810   | 3950.0    | 62      | 24692 | No          |
| 32 | GOM_NL__2PRFIN20061120_023928_000000312053_00089_24692_1353.N1 | 20-NOV-2006 02:39:28 | Bright     | 31.000   | 32      | 77Eps UMa | 1.7630   | 11000.    | 62      | 24692 | No          |
| 33 | GOM_NL__2PRFIN20061120_024113_000000302053_00089_24692_1354.N1 | 20-NOV-2006 02:41:13 | Bright     | 30.000   | 39      | 85Eta UMa | 1.8540   | 24000.    | 60      | 24692 | No          |
| 34 | GOM_NL__2PRFIN20061120_024442_000000322053_00089_24692_1355.N1 | 20-NOV-2006 02:44:42 | Bright     | 31.500   | 152     | 12Alp2CVn | 2.8900   | 11000.    | 63      | 24692 | No          |
| 35 | GOM_NL__2PRFIN20061120_025235_000000302053_00089_24692_1356.N1 | 20-NOV-2006 02:52:35 | Bright     | 30.000   | 138     | 47Eps Vir | 2.8280   | 4700.0    | 60      | 24692 | No          |
| 36 | GOM_NL__2PRFIN20061120_025631_000000332053_00089_24692_1357.N1 | 20-NOV-2006 02:56:31 | Bright     | 32.500   | 121     | 29Gam Vir | 2.7400   | 7200.0    | 65      | 24692 | No          |
| 37 | GOM_NL__2PRFIN20061120_030142_000000352053_00089_24692_1358.N1 | 20-NOV-2006 03:01:42 | Twilight   | 35.000   | 100     | 4Gam Crv  | 2.5800   | 13100.    | 70      | 24692 | No          |
| 38 | GOM_NL__2PRFIN20061120_030314_000000362053_00089_24692_1359.N1 | 20-NOV-2006 03:03:14 | Twilight   | 36.000   | 171     | 2Eps Crv  | 3.0010   | 4250.0    | 72      | 24692 | No          |
| 39 | GOM_NL__2PRFIN20061120_031019_000000322053_00089_24692_1360.N1 | 20-NOV-2006 03:10:19 | Dark       | 32.000   | 99      | Del Cen   | 2.5750   | 26000.    | 64      | 24692 | No          |
| 40 | GOM_NL__2PRFIN20061120_031236_000000362053_00089_24692_1361.N1 | 20-NOV-2006 03:12:36 | Dark       | 35.500   | 113     | Mu Vel    | 2.6920   | 5000.0    | 71      | 24692 | No          |
| 41 | GOM_NL__2PRFIN20061120_031518_000000322053_00090_24693_1340.N1 | 20-NOV-2006 03:15:18 | Dark       | 31.500   | 124     | The Car   | 2.7640   | 30000.    | 63      | 24693 | No          |
| 42 | GOM_NL__2PRFIN20061120_031928_000000402053_00090_24693_1341.N1 | 20-NOV-2006 03:19:28 | Dark       | 39.500   | 41      | Eps Car   | 1.8600   | 4100.0    | 79      | 24693 | No          |







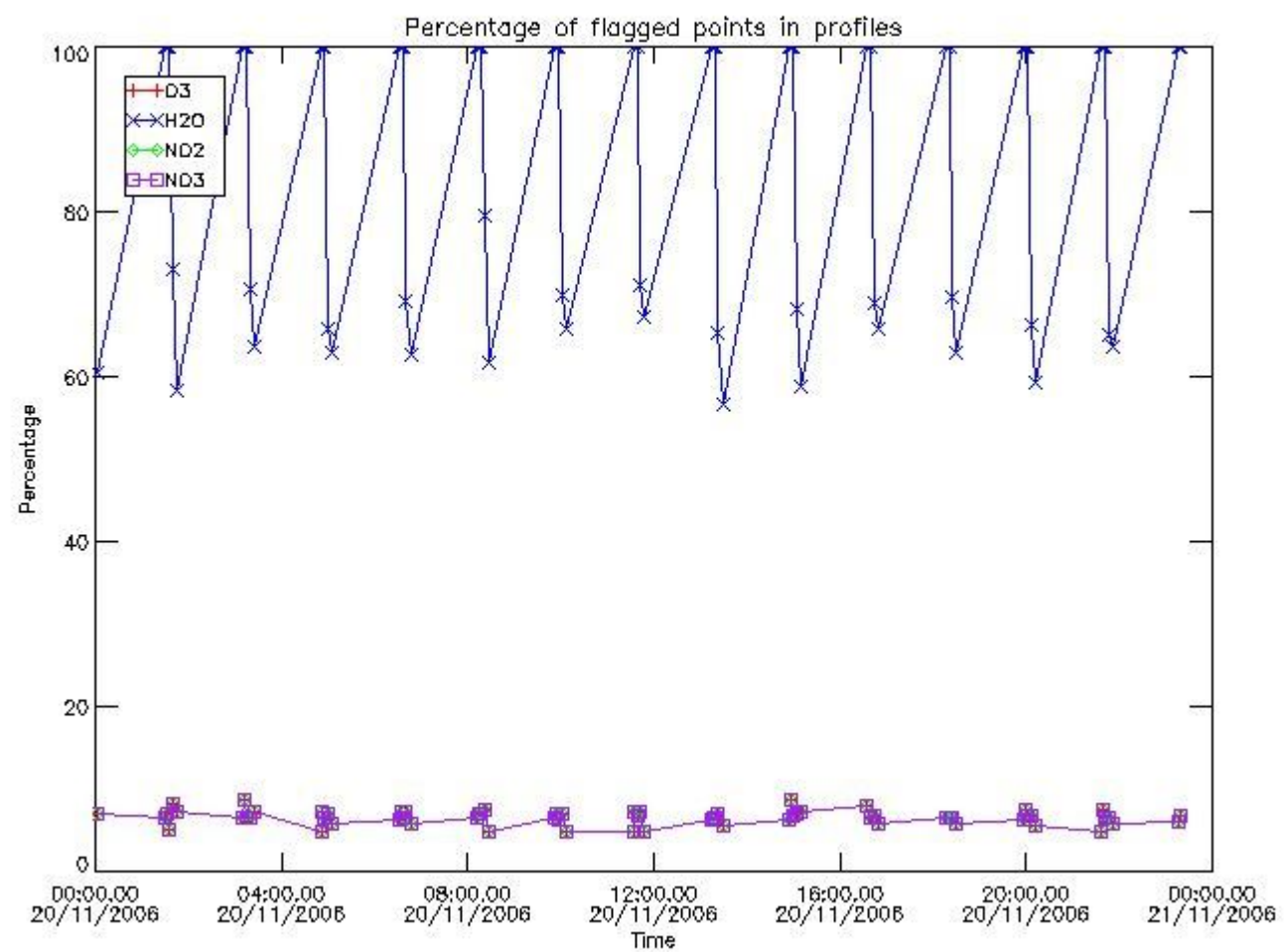


|     |  |                      |          |        |     |           |        |        |    |       |    |
|-----|--|----------------------|----------|--------|-----|-----------|--------|--------|----|-------|----|
| 279 | GOM_NL__2PRFIN20061120_225154_000000302053_00101_24704_1362.N1 | 20-NOV-2006 22:51:54 | Bright   | 29.500 | 152 | 12Alp2CVn | 2.8900 | 11000. | 59 | 24704 | No |
| 280 | GOM_NL__2PRFIN20061120_225950_000000292053_00101_24704_1363.N1 | 20-NOV-2006 22:59:50 | Bright   | 29.000 | 138 | 47Eps Vir | 2.8280 | 4700.0 | 58 | 24704 | No |
| 281 | GOM_NL__2PRFIN20061120_230347_000000332053_00101_24704_1364.N1 | 20-NOV-2006 23:03:47 | Bright   | 32.500 | 121 | 29Gam Vir | 2.7400 | 7200.0 | 65 | 24704 | No |
| 282 | GOM_NL__2PRFIN20061120_230859_000000372053_00101_24704_1365.N1 | 20-NOV-2006 23:08:59 | Twilight | 36.500 | 100 | 4Gam Crv  | 2.5800 | 13100. | 73 | 24704 | No |
| 283 | GOM_NL__2PRFIN20061120_231032_000000412053_00101_24704_1366.N1 | 20-NOV-2006 23:10:32 | Twilight | 40.500 | 171 | 2Eps Crv  | 3.0010 | 4250.0 | 81 | 24704 | No |
| 284 | GOM_NL__2PRFIN20061120_231735_000000342053_00101_24704_1367.N1 | 20-NOV-2006 23:17:35 | Dark     | 34.000 | 99  | Del Cen   | 2.5750 | 26000. | 68 | 24704 | No |
| 285 | GOM_NL__2PRFIN20061120_231955_000000382053_00101_24704_1368.N1 | 20-NOV-2006 23:19:55 | Dark     | 37.500 | 113 | Mu Vel    | 2.6920 | 5000.0 | 75 | 24704 | No |

### 3. Quality information per product

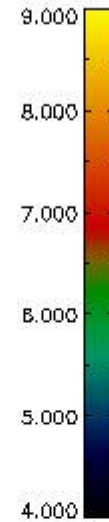
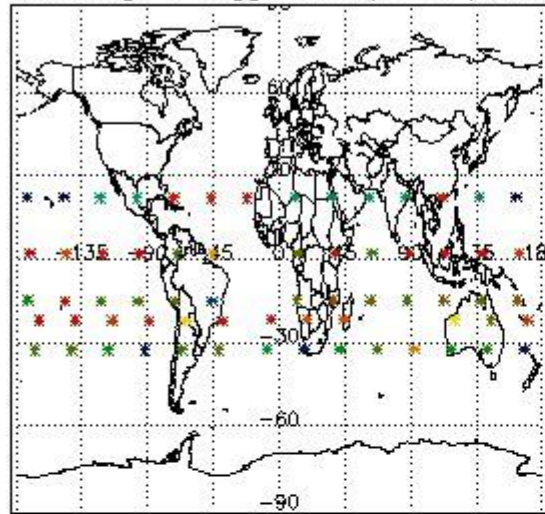
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

#### 3.1 Plot quality information per product (time dependant)

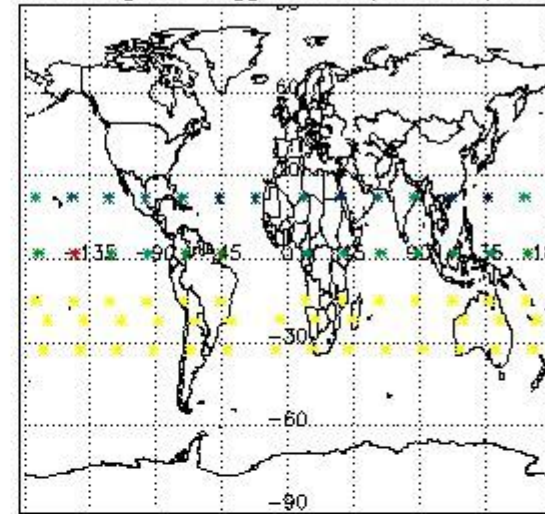


#### 3.2 Plot quality information per product (world map)

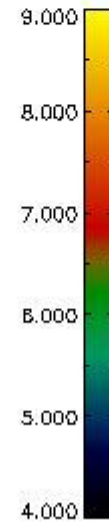
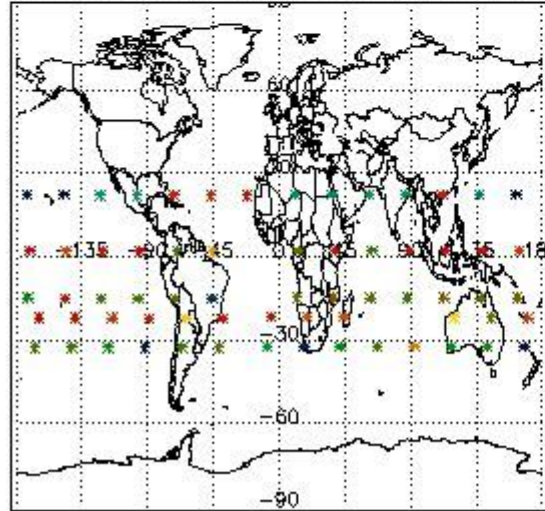
Percentage of flagged data per O3 profile



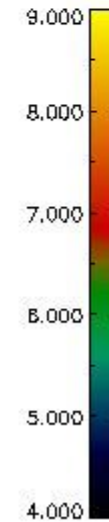
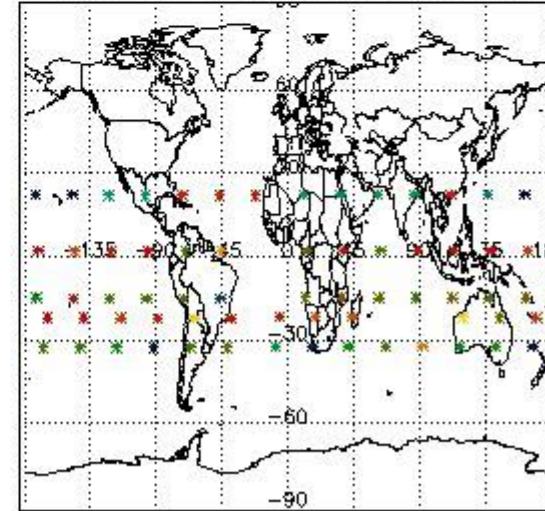
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



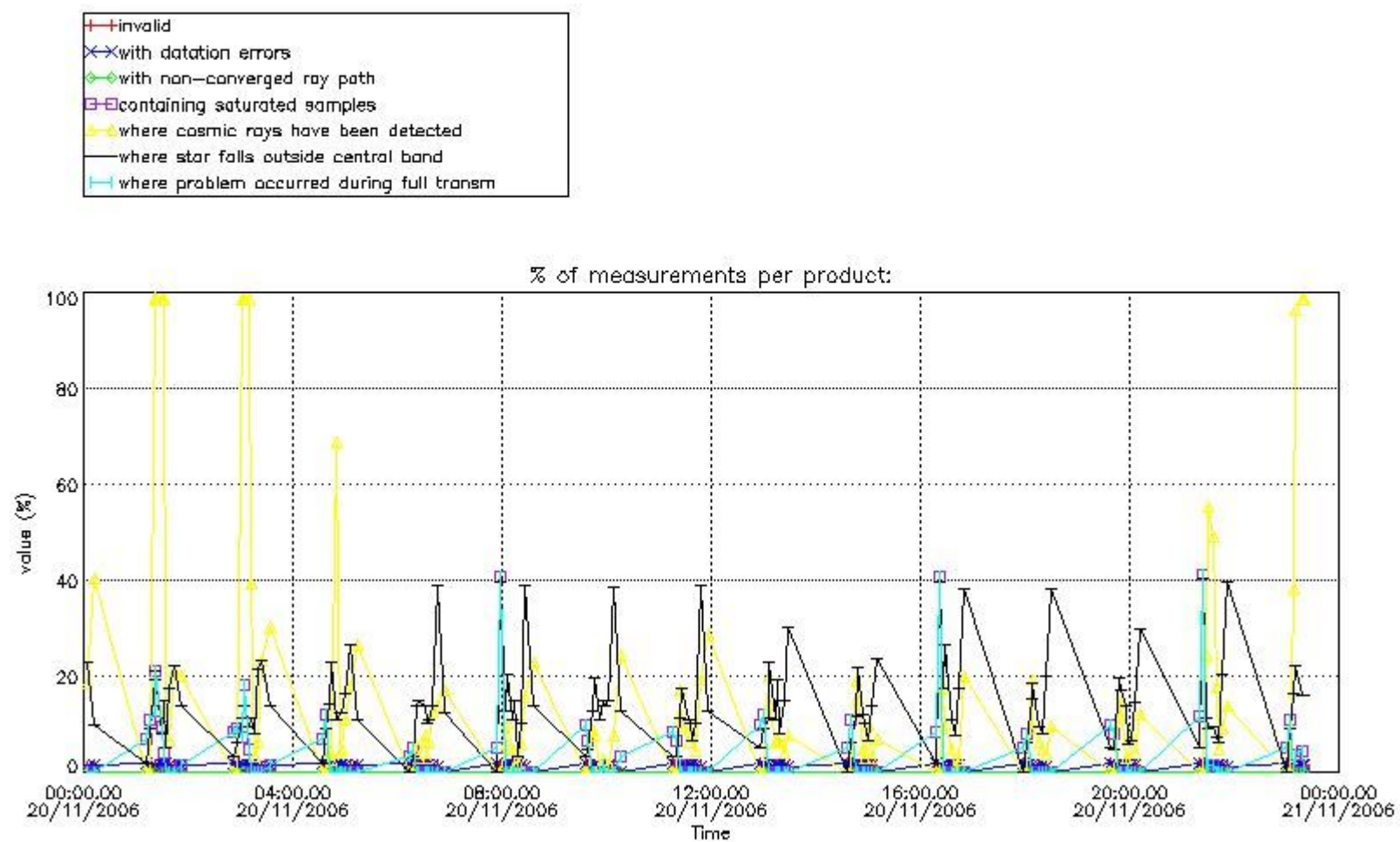
#### 4. Level 1 quality information per product

In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

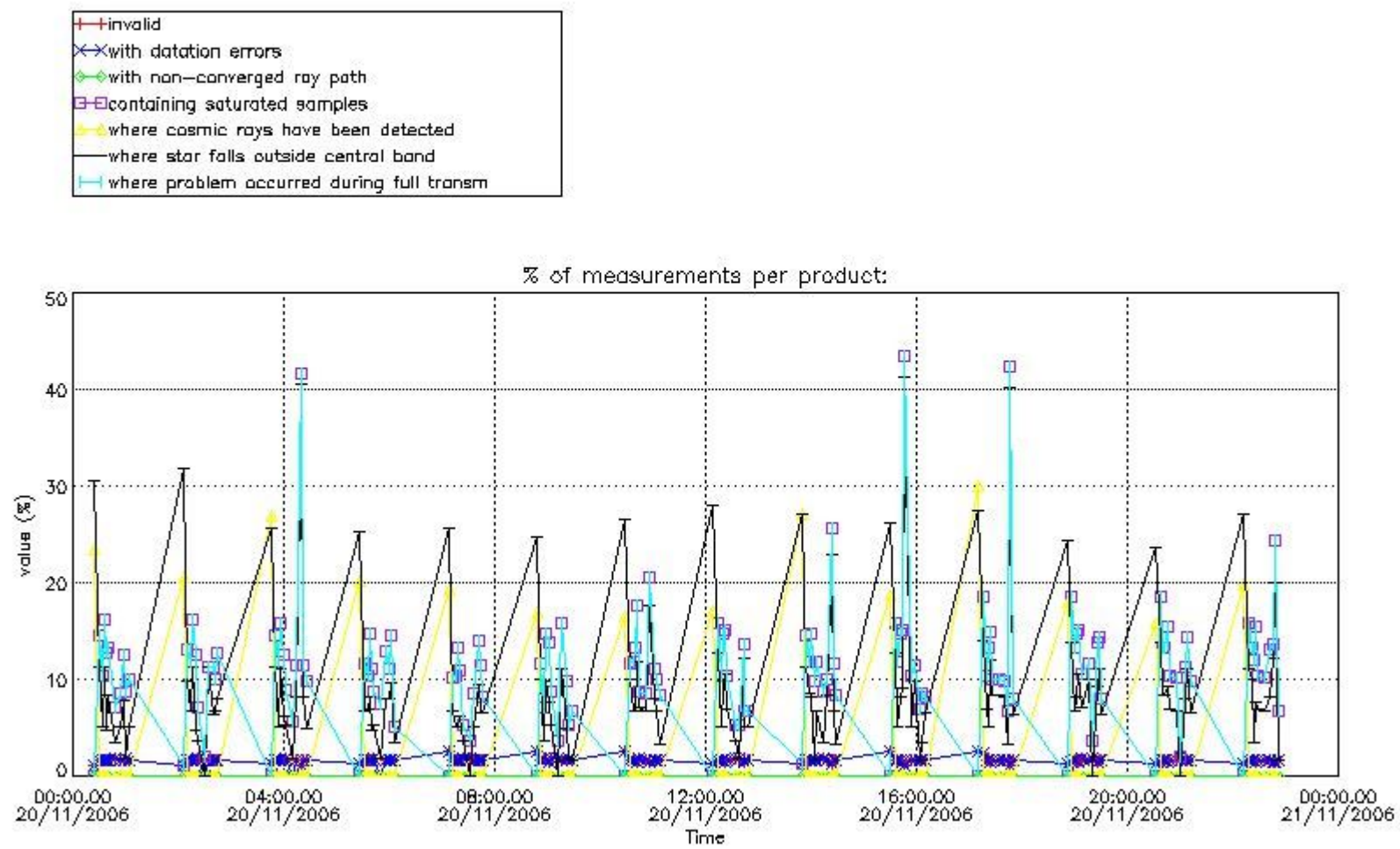
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

###### 4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes



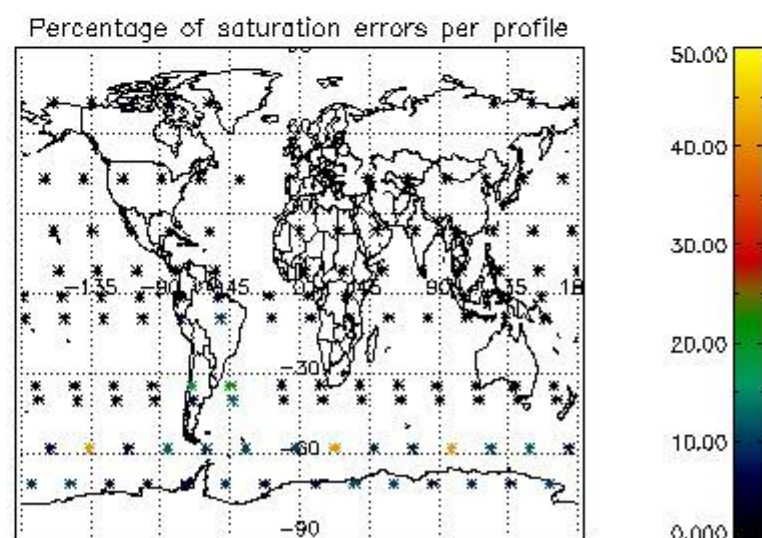
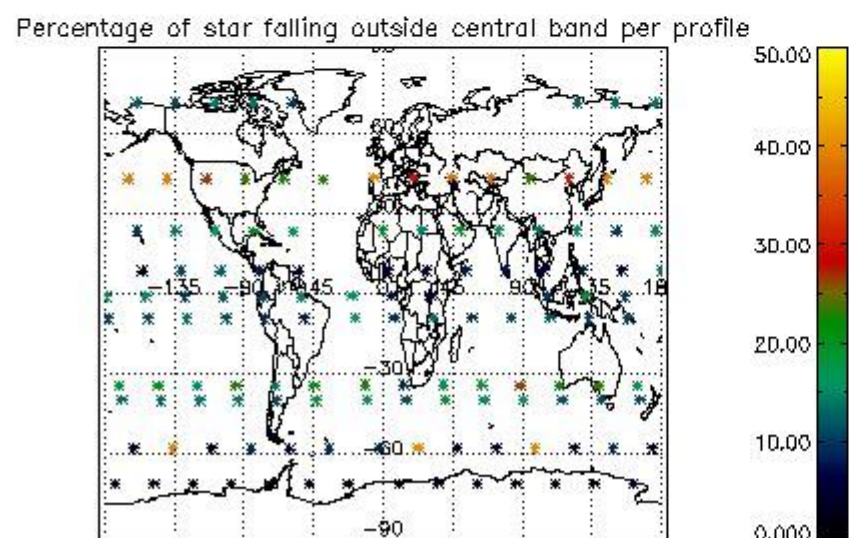
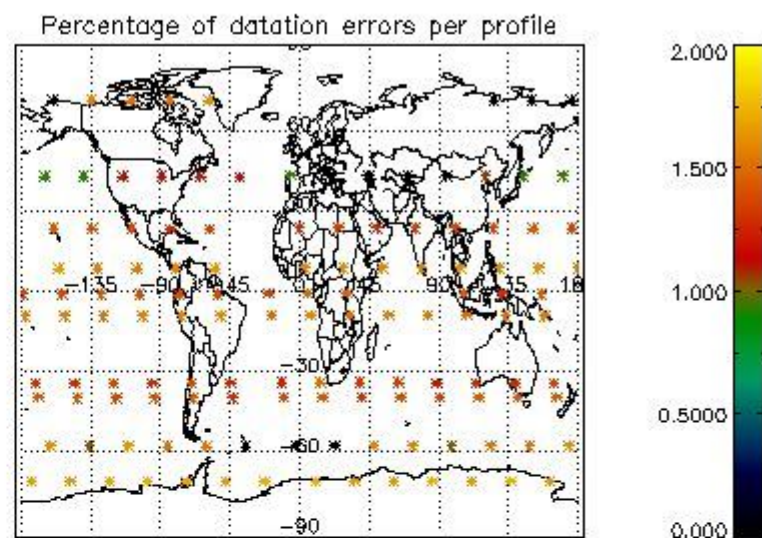
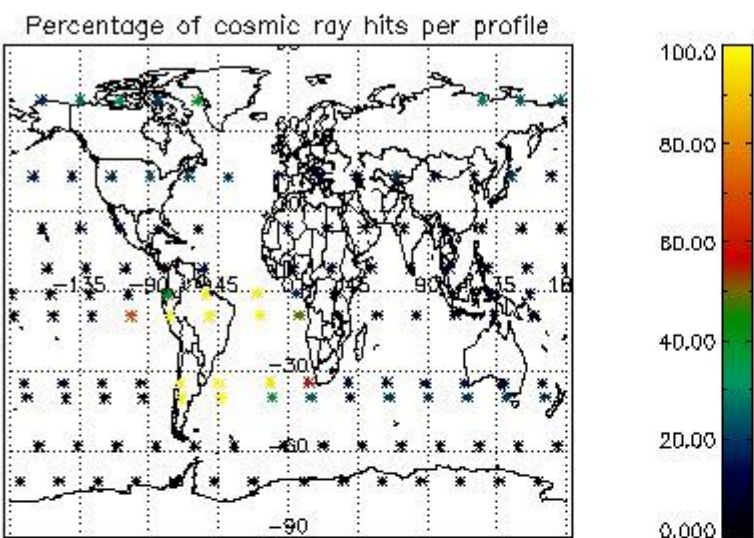


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

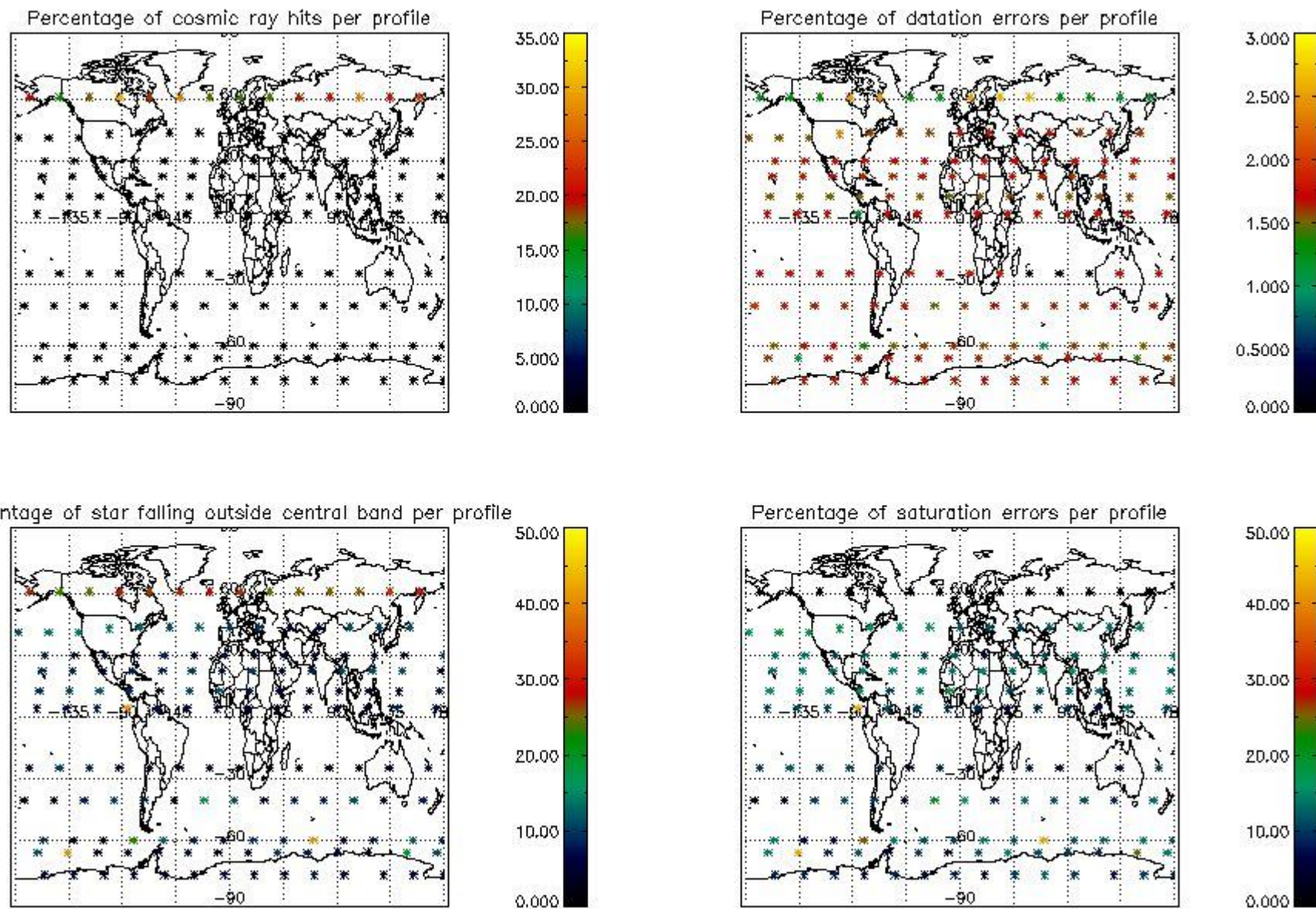


*4.2 Plot quality information per product coming from level 1b processing (world map)*

*4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes*



4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/o3\_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

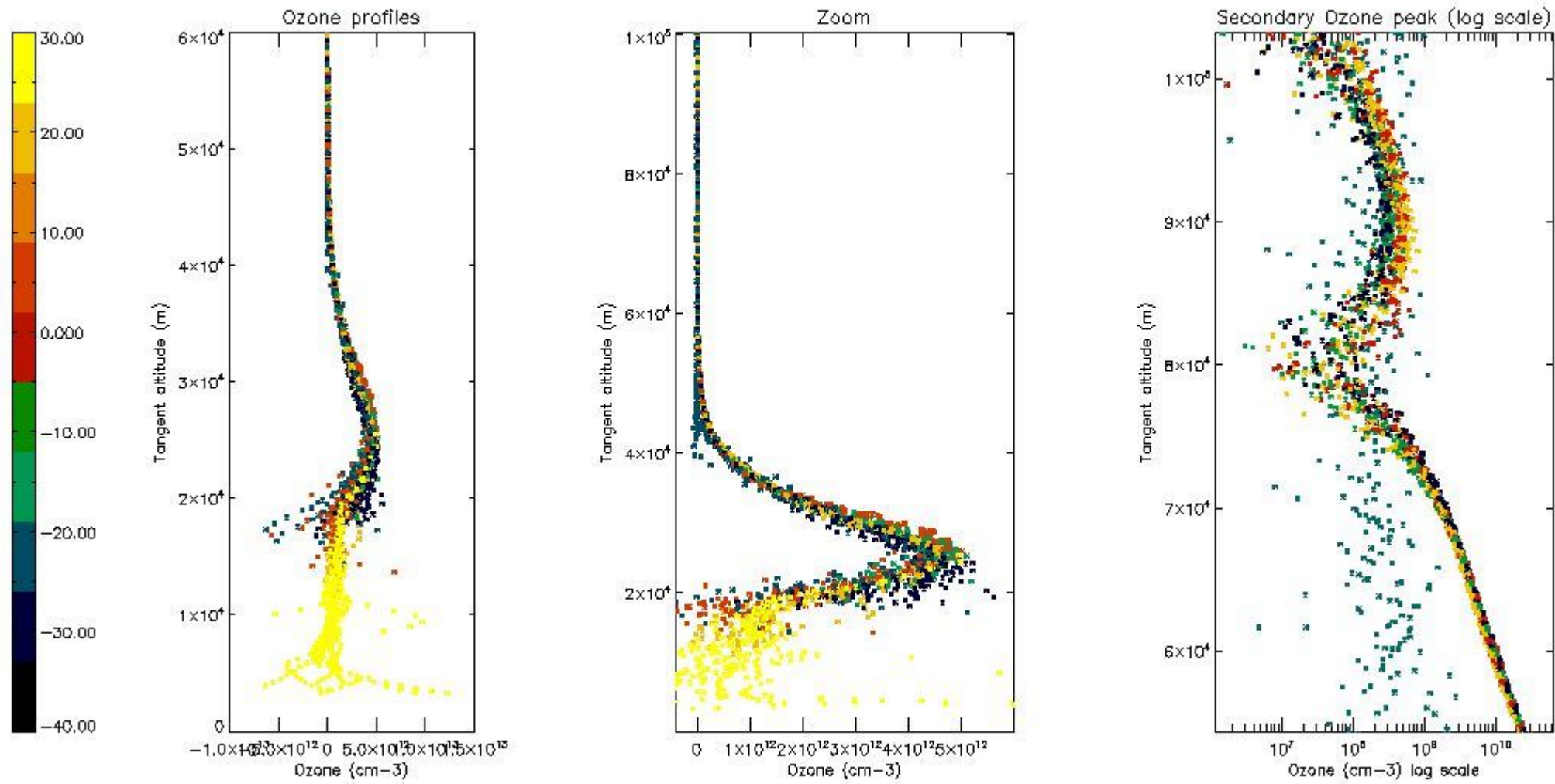
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

| Criteria | % of total production |
|----------|-----------------------|
| All STD  | 26                    |
| STD < 20 | 17                    |

|          |    |
|----------|----|
| STD < 10 | 13 |
| STD < 5  | 8  |

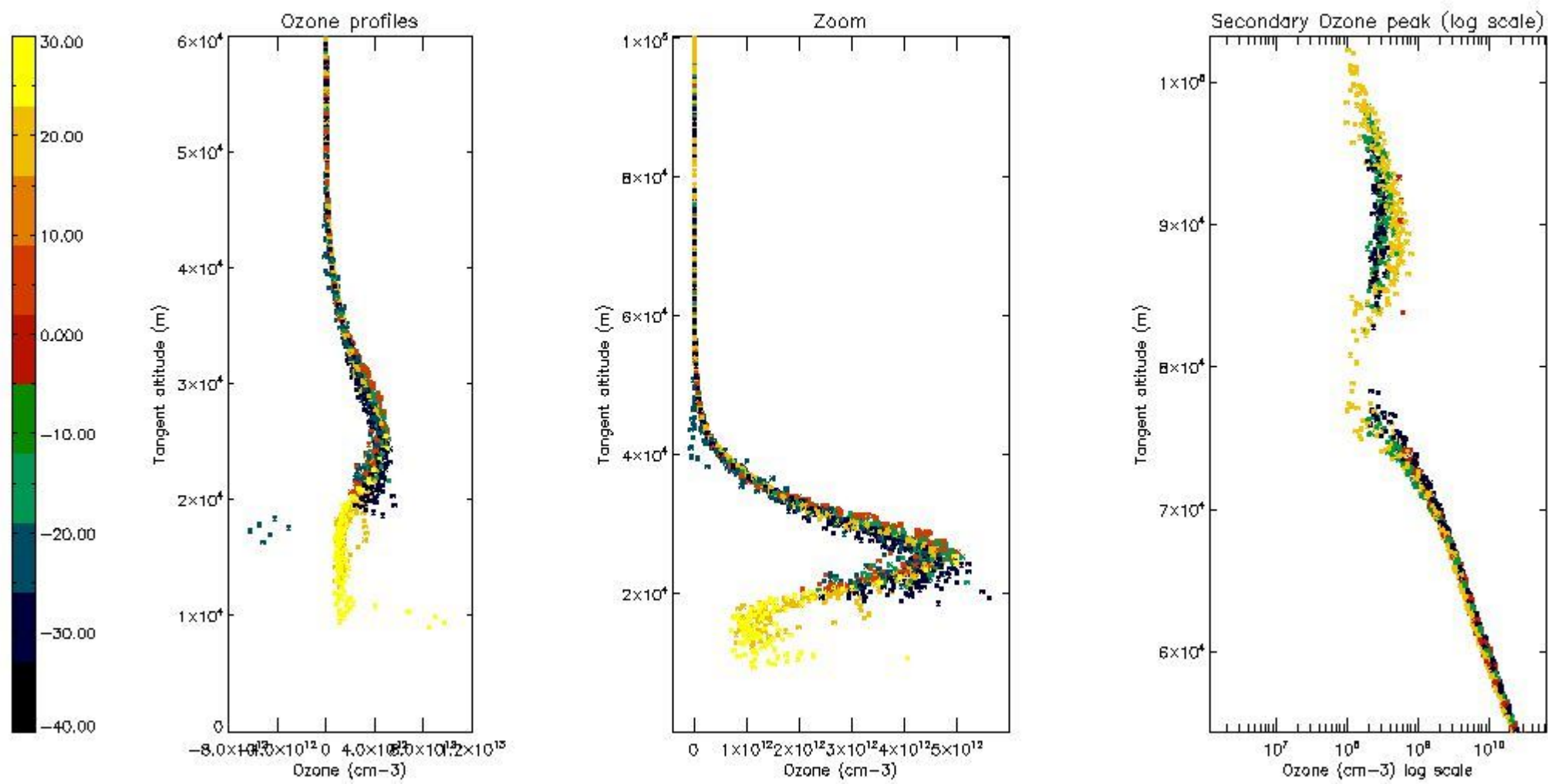
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



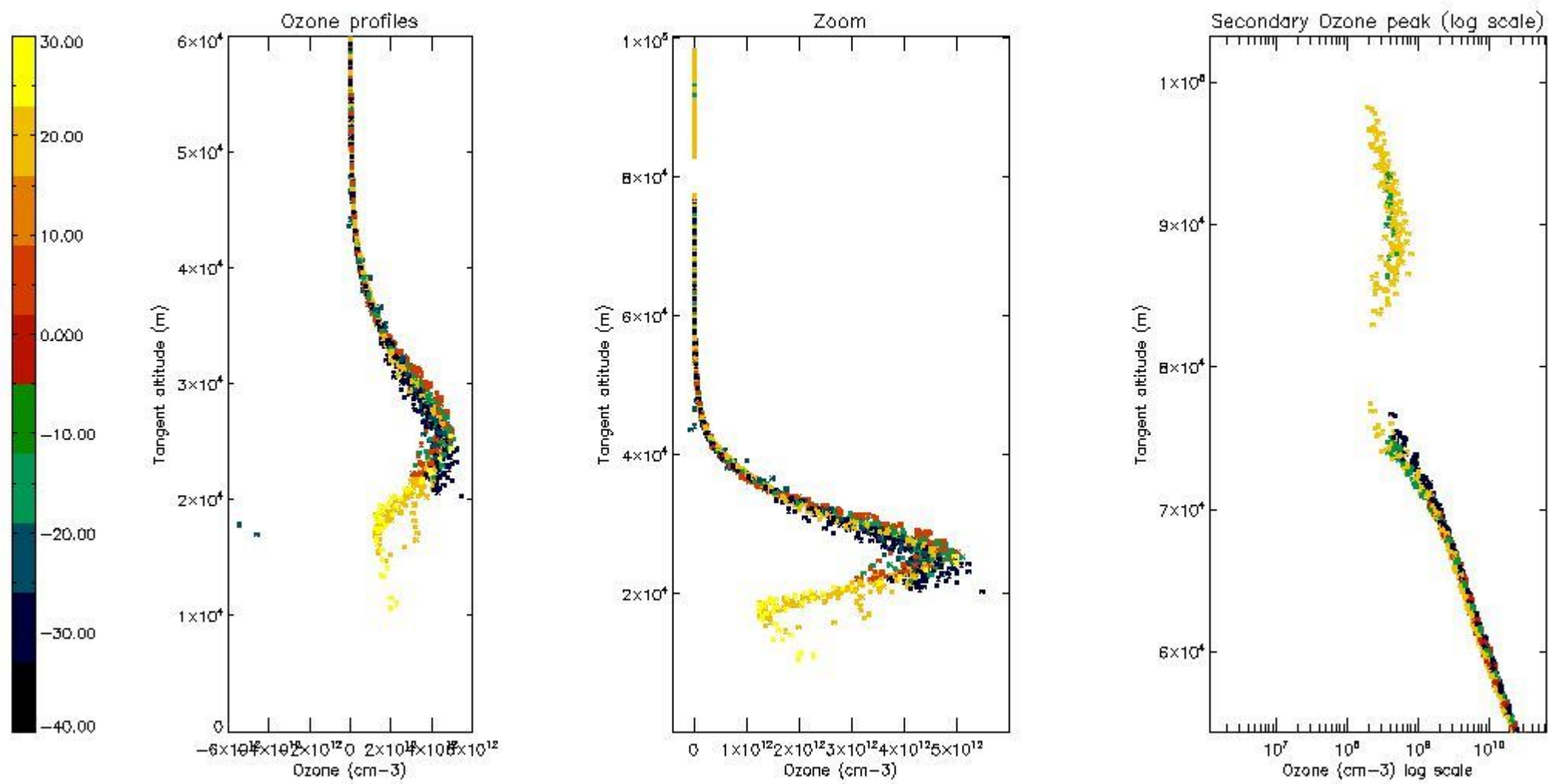
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



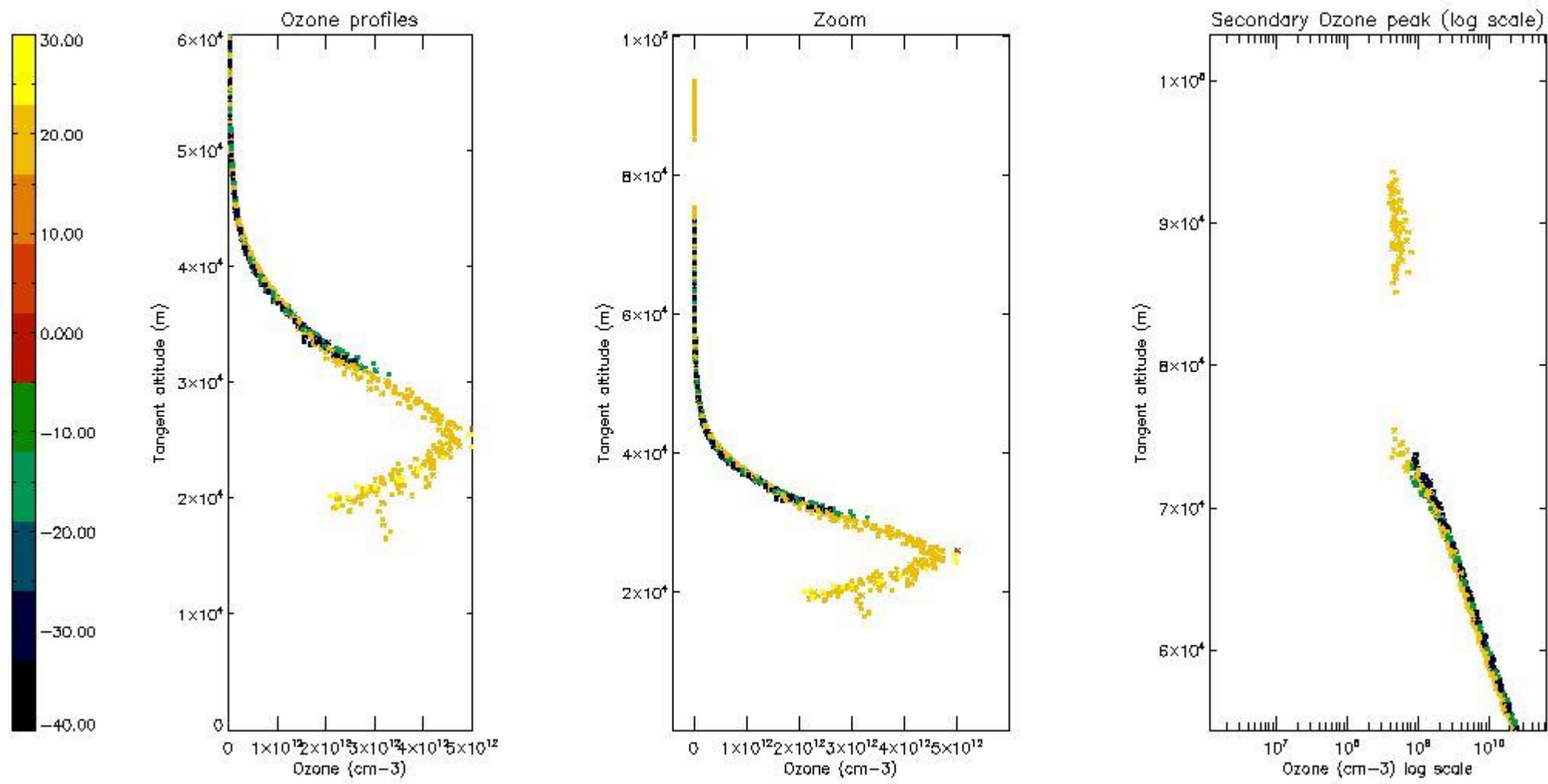
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

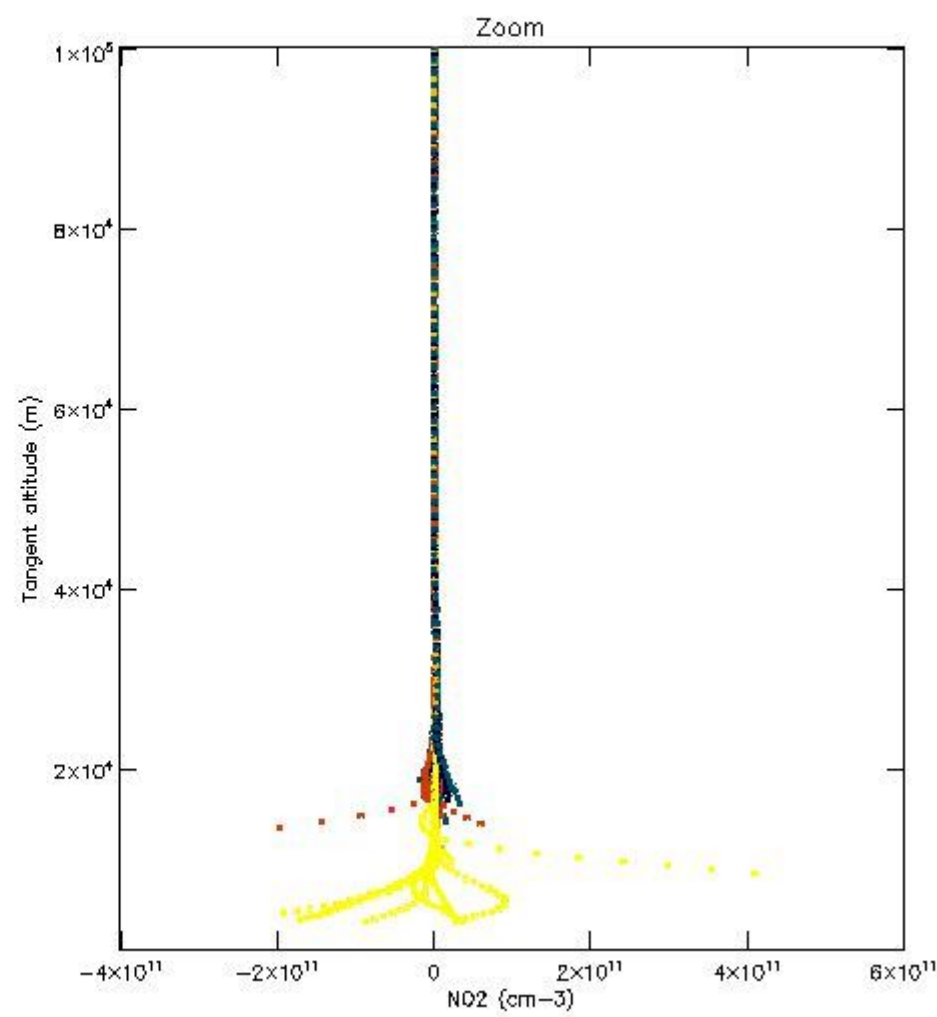
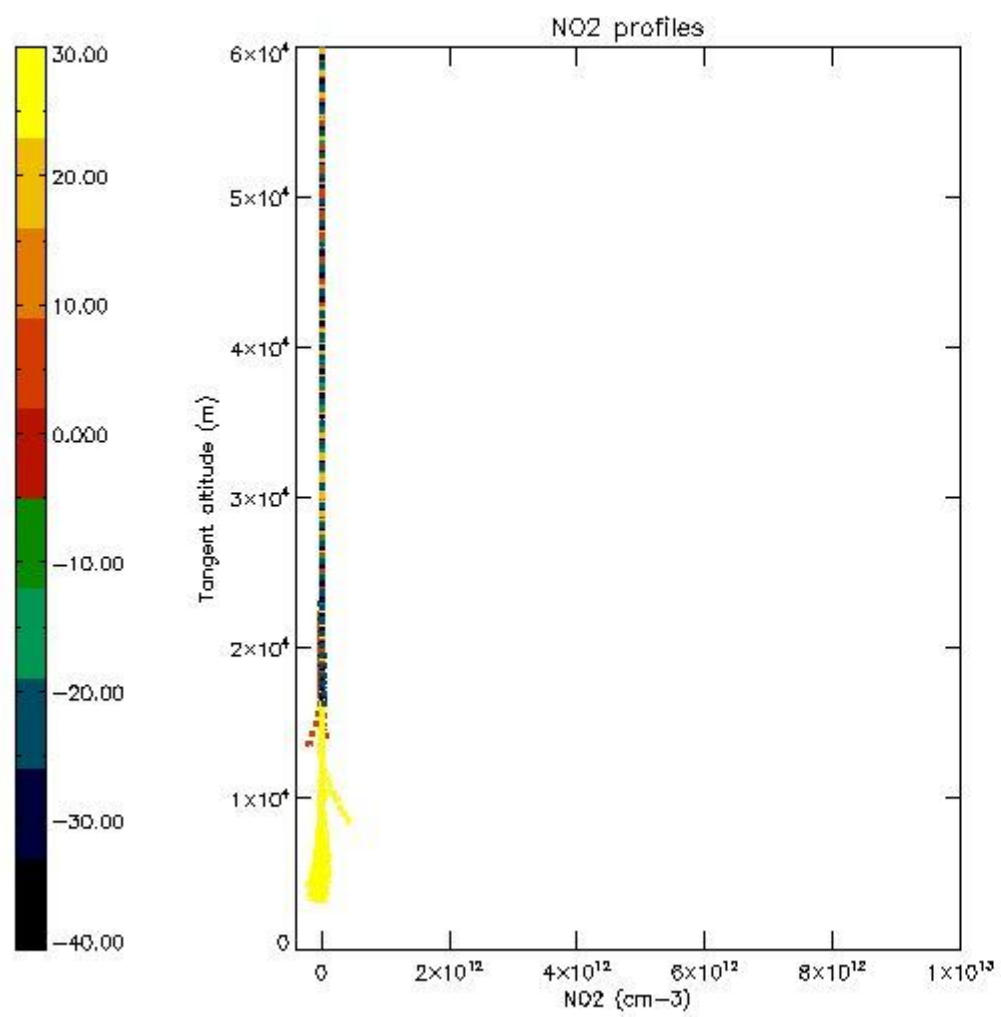
The colorbar represents the latitude.



*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

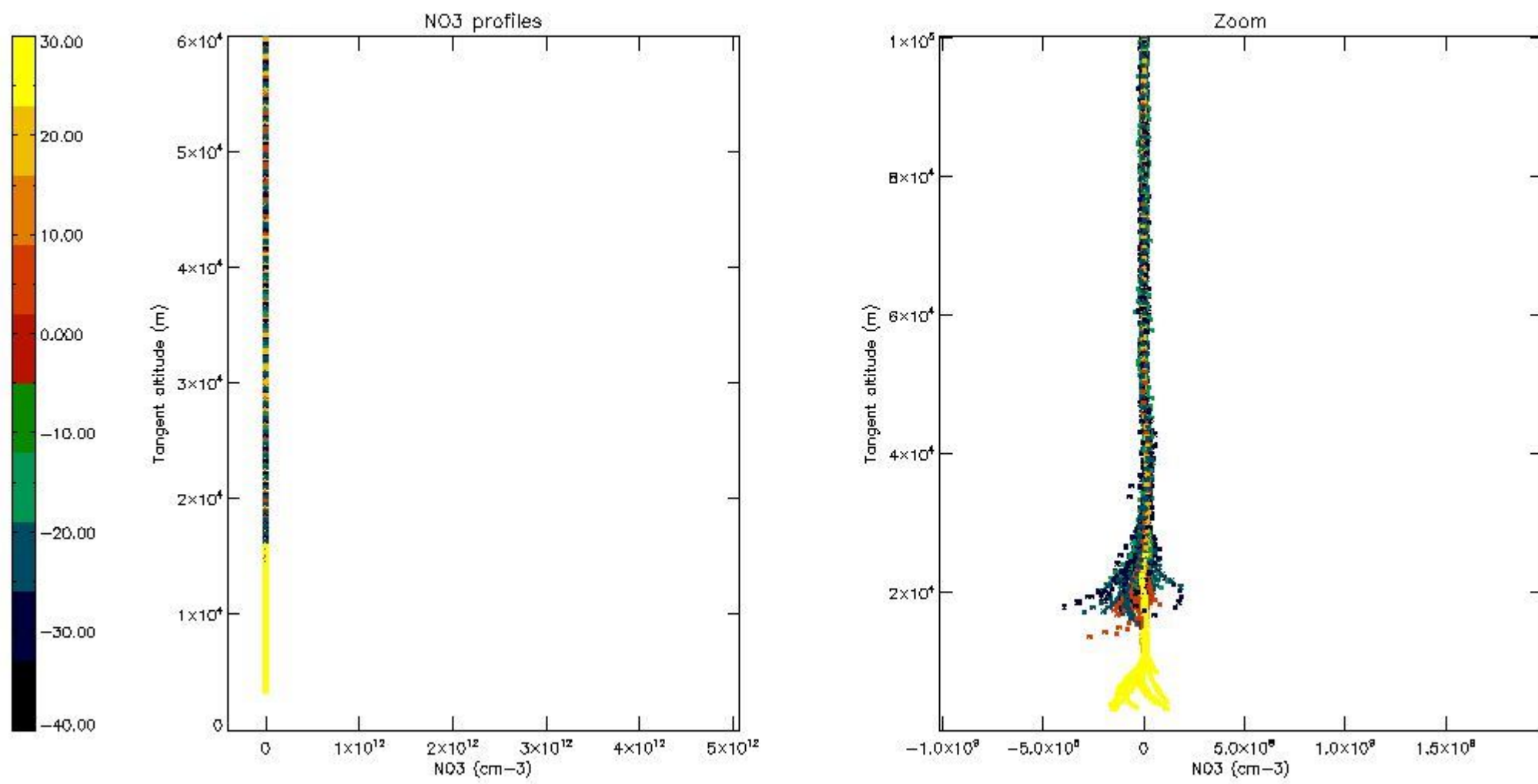
The colorbar represents the latitude.





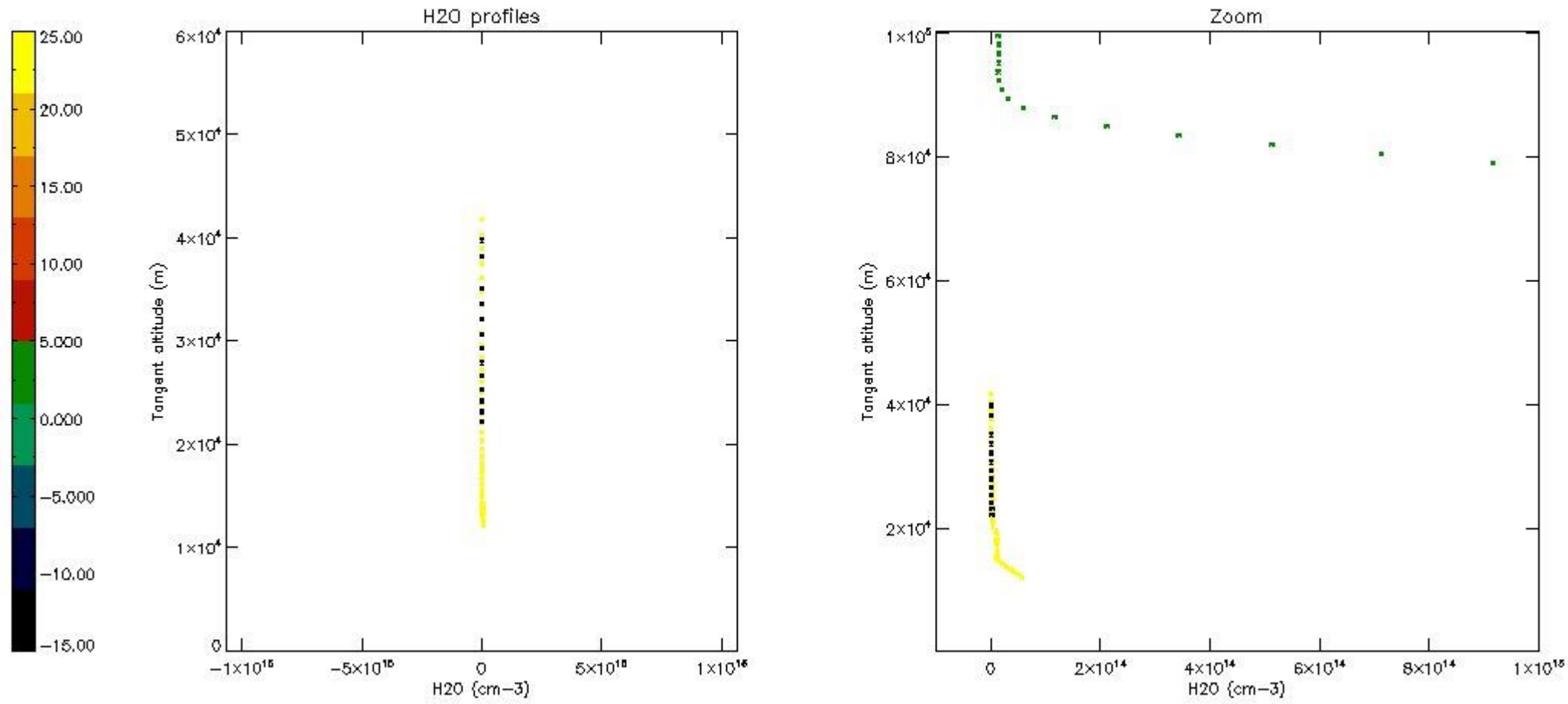
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



*5.8 Plot H2O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors)*

The colorbar represents the latitude.



## 6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

| Type                      | Auxiliary Filename  | Used since product | Used since product date |
|---------------------------|---|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000 | 1                  | 20-NOV-2006 00:03:46    |
| LEVEL-2_PROC_CONFIG       | GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000 | 1                  | 20-NOV-2006 00:03:46    |
| CROSS_SECTIONS_FILE       | GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000 | 1                  | 20-NOV-2006 00:03:46    |

# GOMOS Level 2 Daily Report

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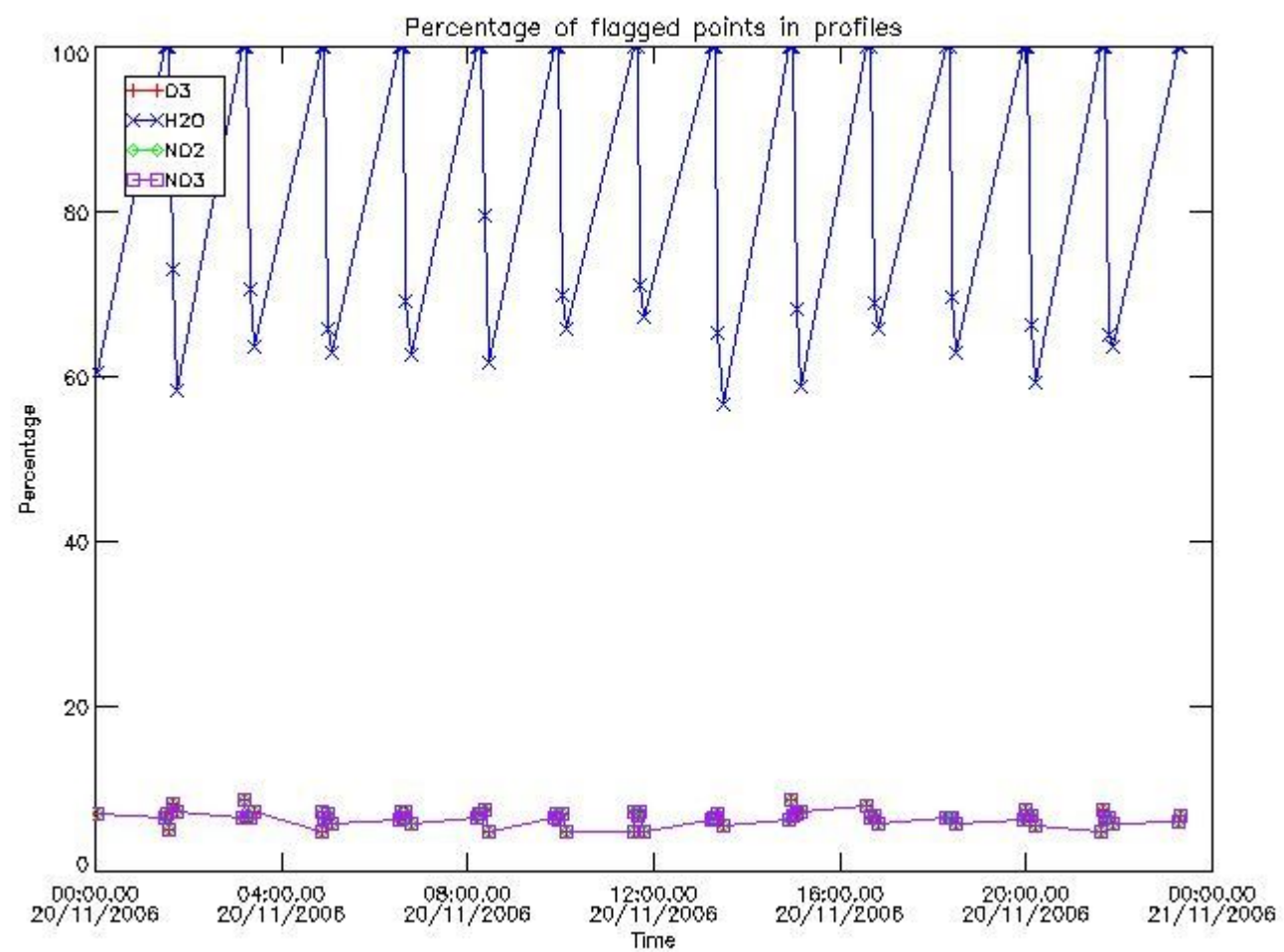


|     |  |                      |          |        |     |           |        |        |    |       |    |
|-----|--|----------------------|----------|--------|-----|-----------|--------|--------|----|-------|----|
| 279 | GOM_NL__2PRFIN20061120_225154_000000302053_00101_24704_1362.N1 | 20-NOV-2006 22:51:54 | Bright   | 29.500 | 152 | 12Alp2CVn | 2.8900 | 11000. | 59 | 24704 | No |
| 280 | GOM_NL__2PRFIN20061120_225950_000000292053_00101_24704_1363.N1 | 20-NOV-2006 22:59:50 | Bright   | 29.000 | 138 | 47Eps Vir | 2.8280 | 4700.0 | 58 | 24704 | No |
| 281 | GOM_NL__2PRFIN20061120_230347_000000332053_00101_24704_1364.N1 | 20-NOV-2006 23:03:47 | Bright   | 32.500 | 121 | 29Gam Vir | 2.7400 | 7200.0 | 65 | 24704 | No |
| 282 | GOM_NL__2PRFIN20061120_230859_000000372053_00101_24704_1365.N1 | 20-NOV-2006 23:08:59 | Twilight | 36.500 | 100 | 4Gam Crv  | 2.5800 | 13100. | 73 | 24704 | No |
| 283 | GOM_NL__2PRFIN20061120_231032_000000412053_00101_24704_1366.N1 | 20-NOV-2006 23:10:32 | Twilight | 40.500 | 171 | 2Eps Crv  | 3.0010 | 4250.0 | 81 | 24704 | No |
| 284 | GOM_NL__2PRFIN20061120_231735_000000342053_00101_24704_1367.N1 | 20-NOV-2006 23:17:35 | Dark     | 34.000 | 99  | Del Cen   | 2.5750 | 26000. | 68 | 24704 | No |
| 285 | GOM_NL__2PRFIN20061120_231955_000000382053_00101_24704_1368.N1 | 20-NOV-2006 23:19:55 | Dark     | 37.500 | 113 | Mu Vel    | 2.6920 | 5000.0 | 75 | 24704 | No |

### 3. Quality information per product

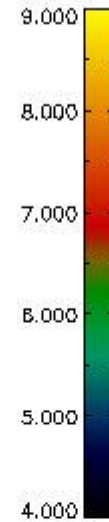
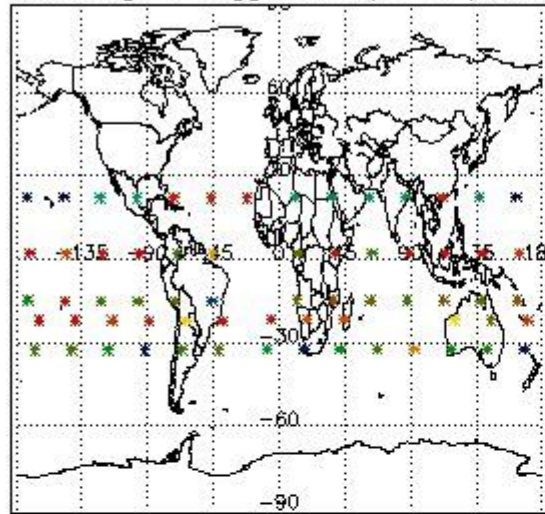
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

#### 3.1 Plot quality information per product (time dependant)

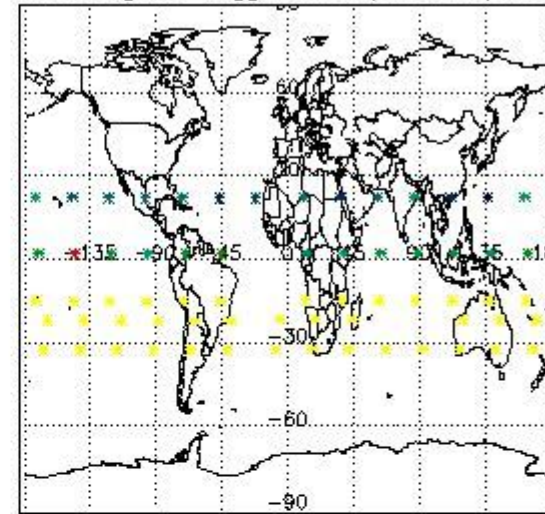


#### 3.2 Plot quality information per product (world map)

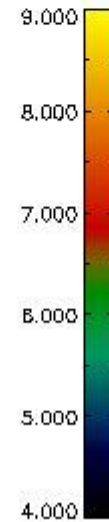
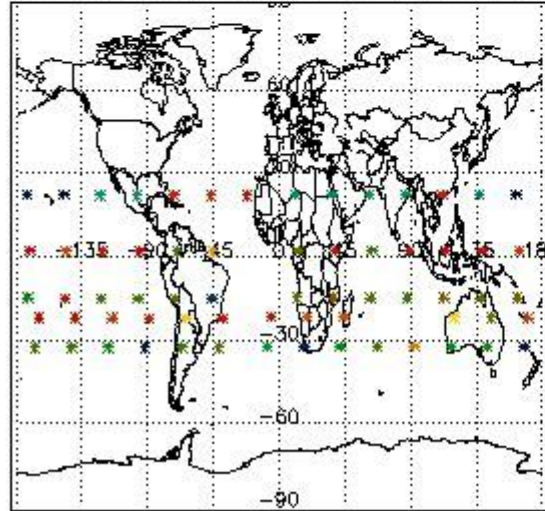
Percentage of flagged data per O3 profile



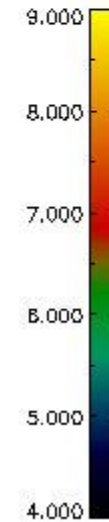
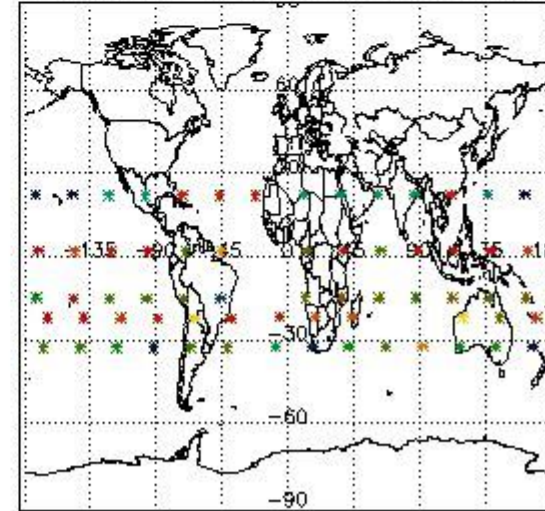
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

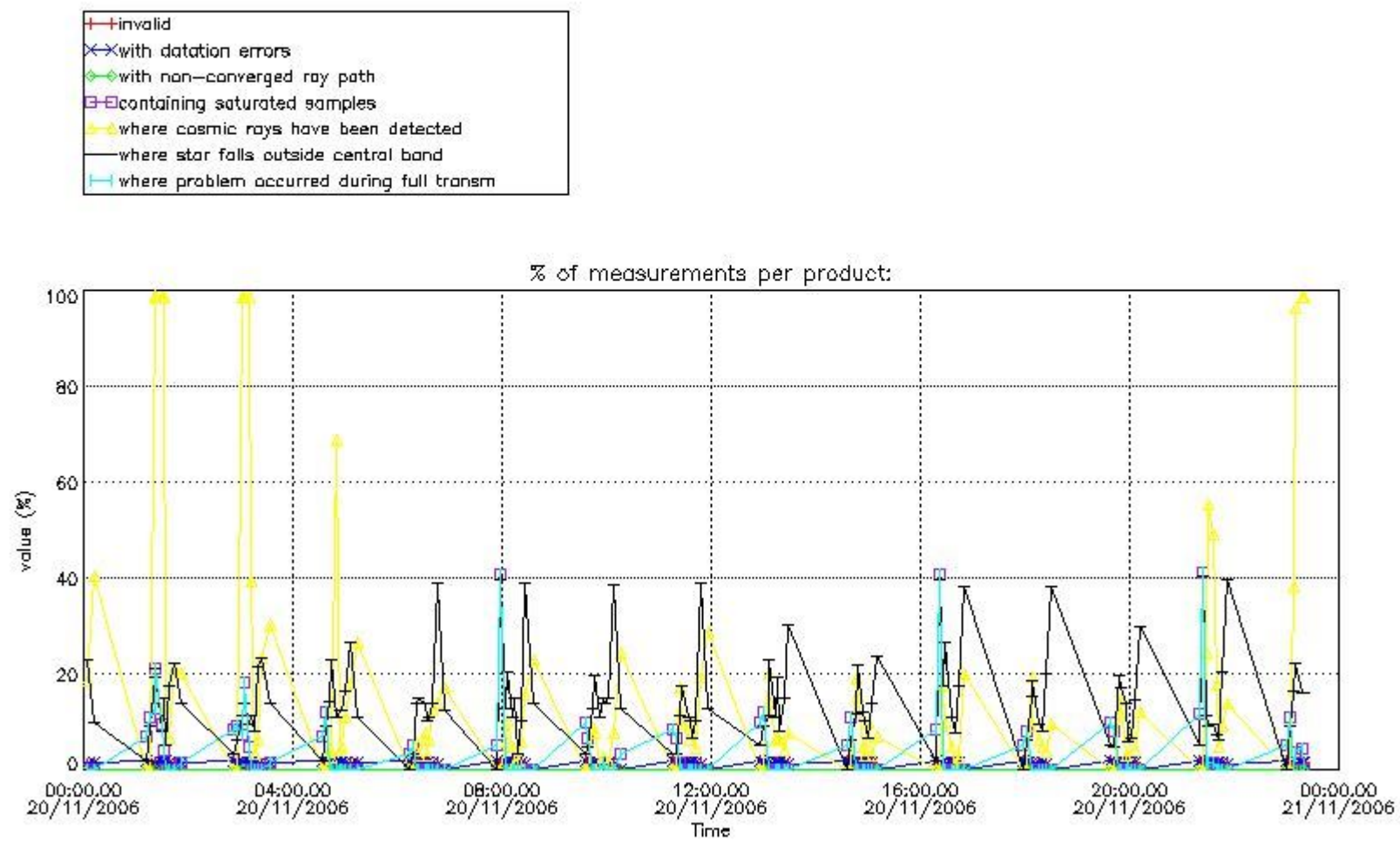


#### 4. Level 1 quality information per product

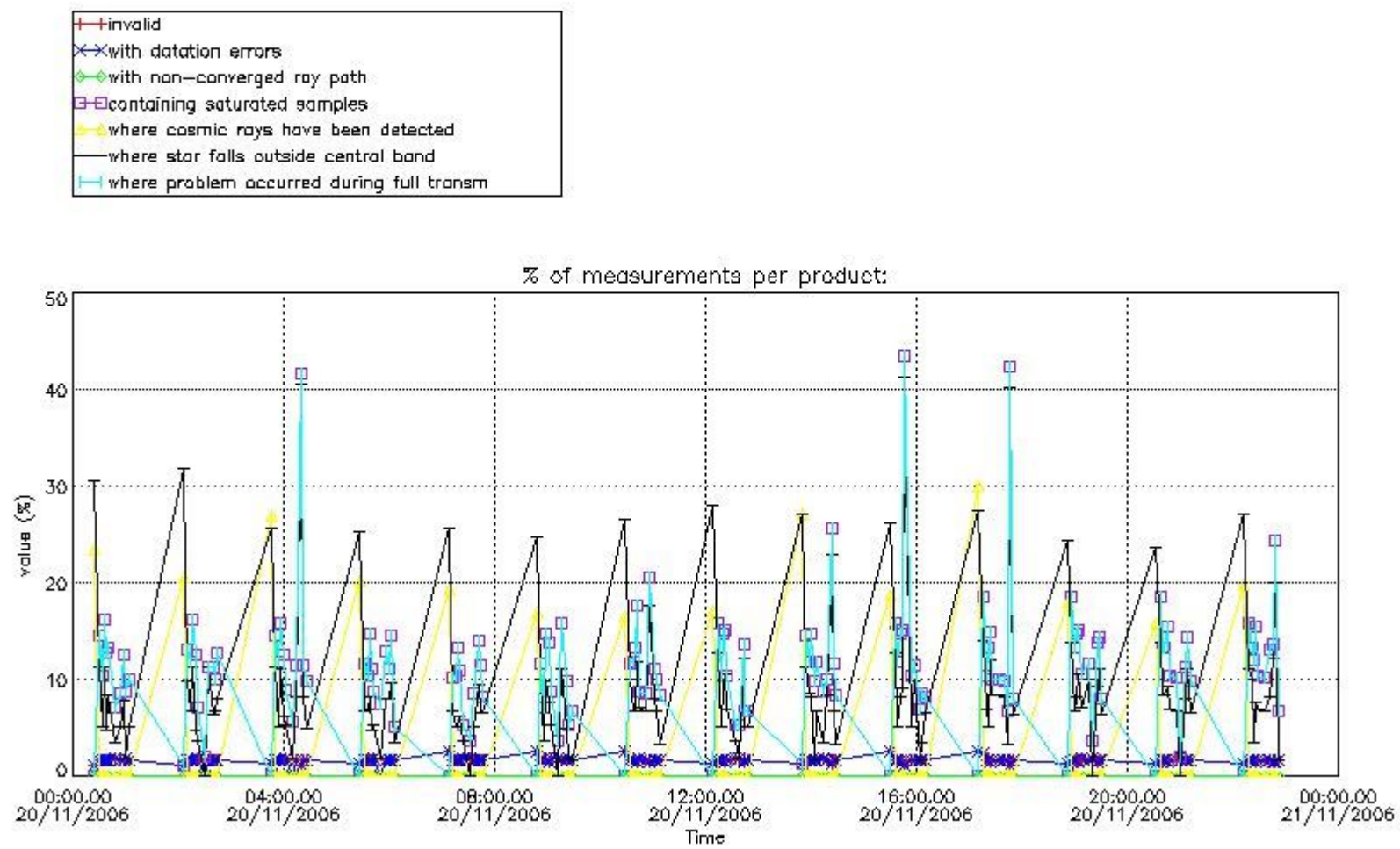
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

###### 4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes

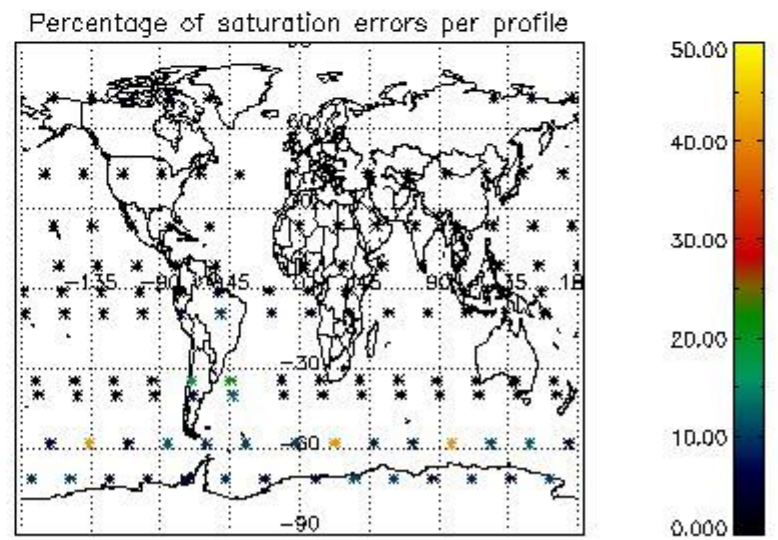
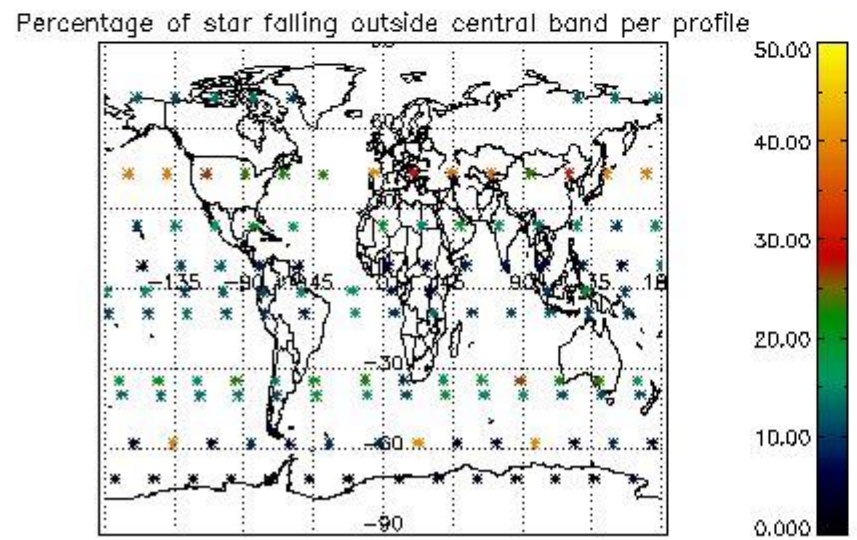
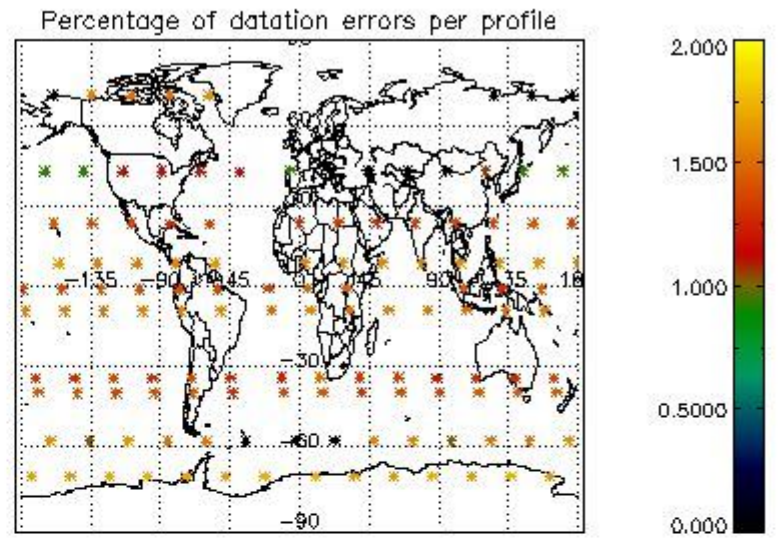
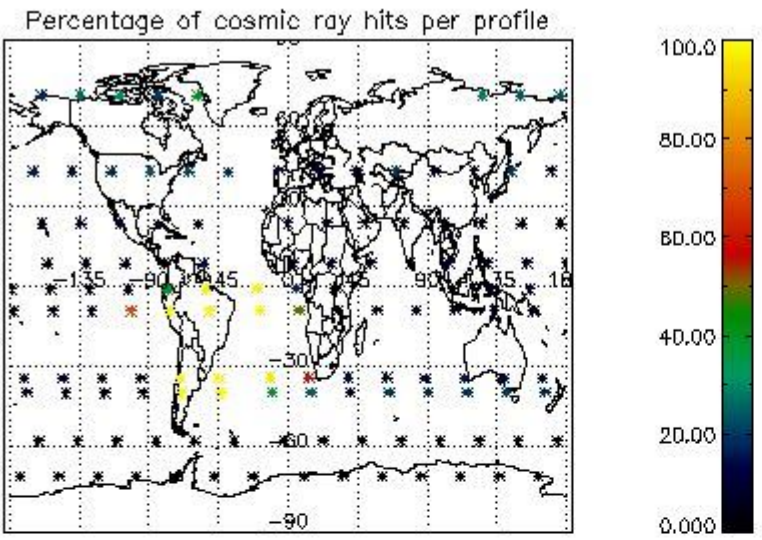


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

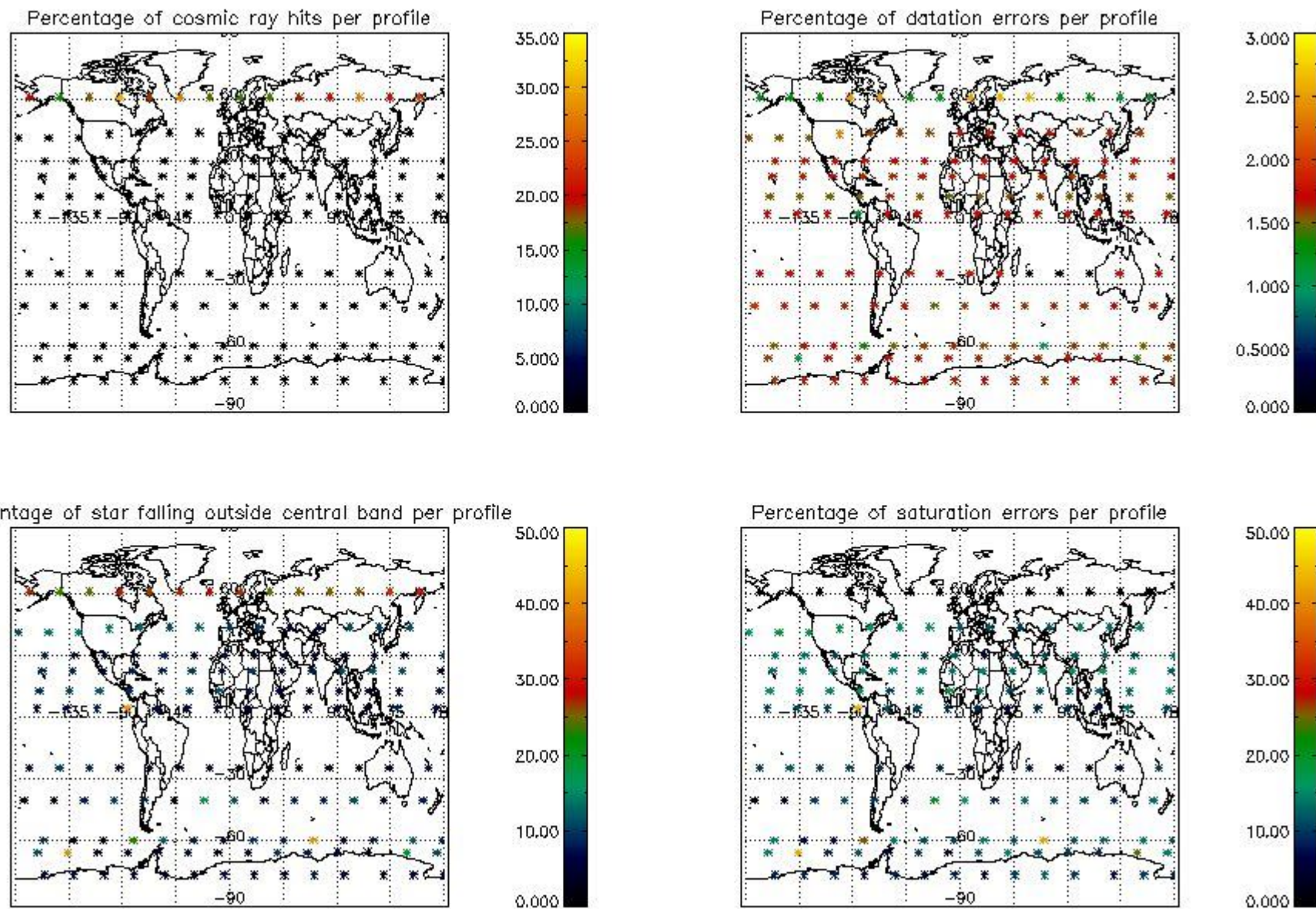


4.2 Plot quality information per product coming from level 1b processing (world map)

4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes



4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/o3\_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

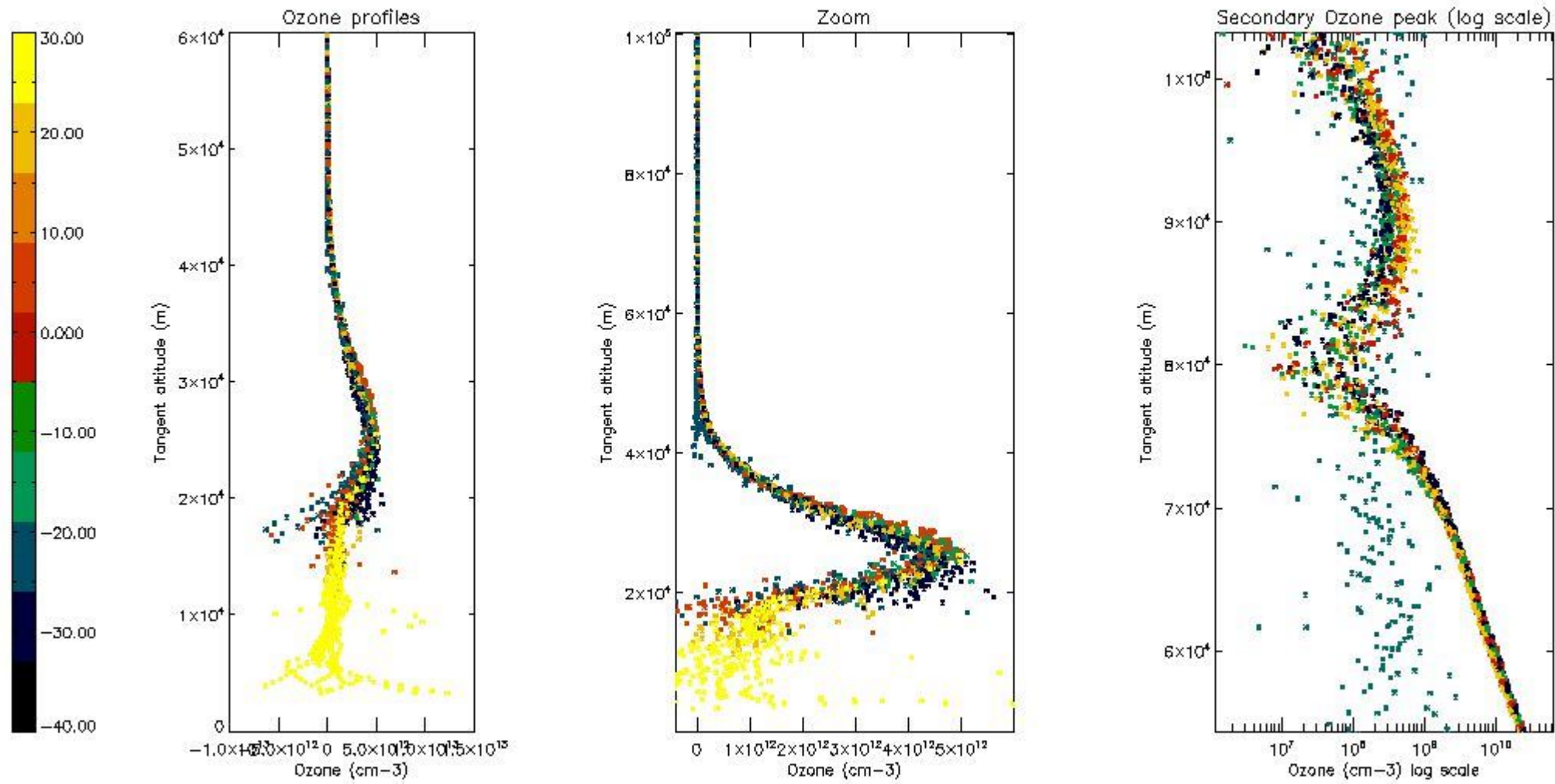
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

| Criteria | % of total production |
|----------|-----------------------|
| All STD  | 26                    |
| STD < 20 | 17                    |

|          |    |
|----------|----|
| STD < 10 | 13 |
| STD < 5  | 8  |

5.2 Plot ozone profiles for all STD (dark without errors)

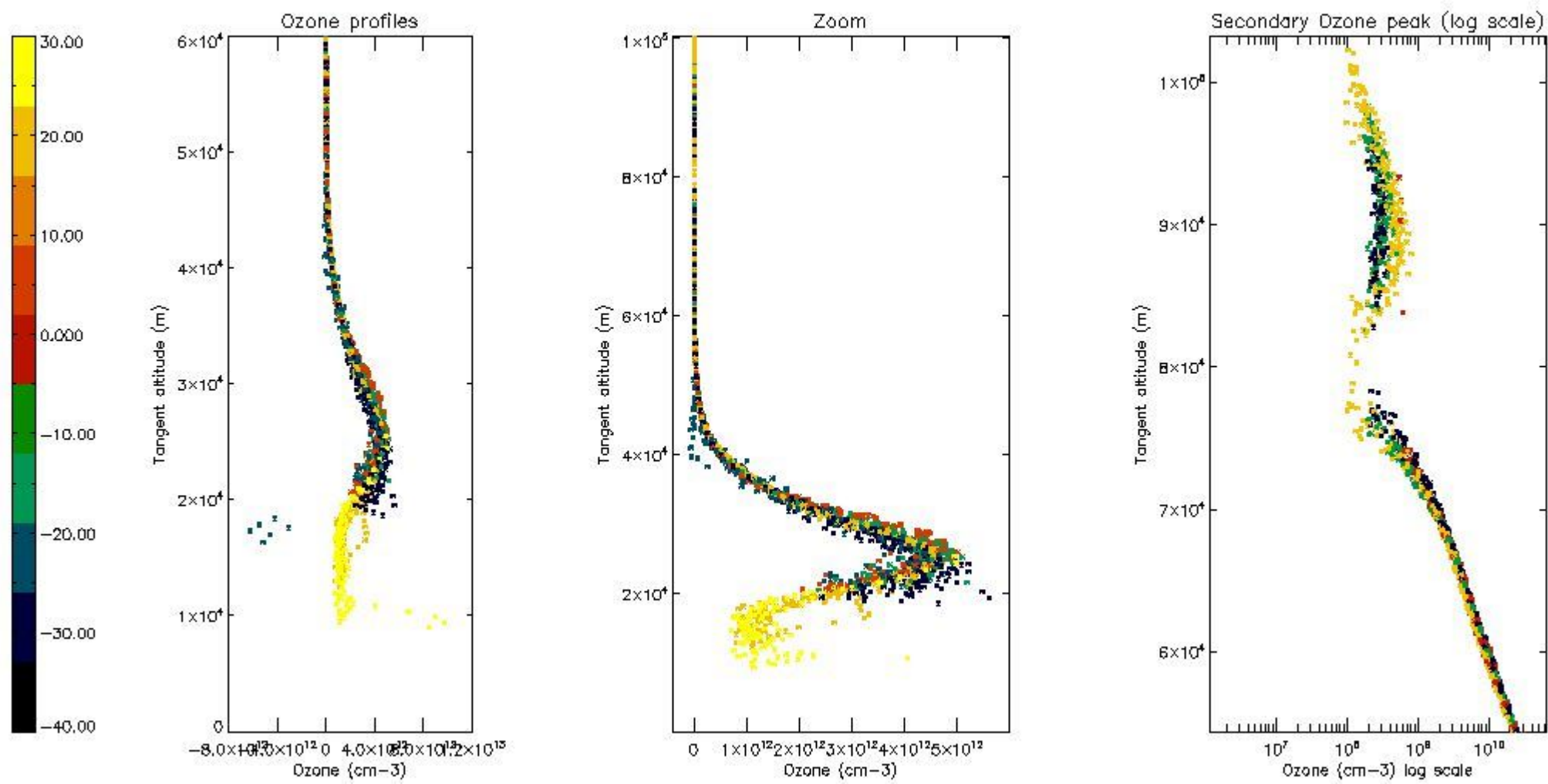
The colorbar represents the latitude.



5.3 Plot ozone profiles where STD < 20% (dark without errors)

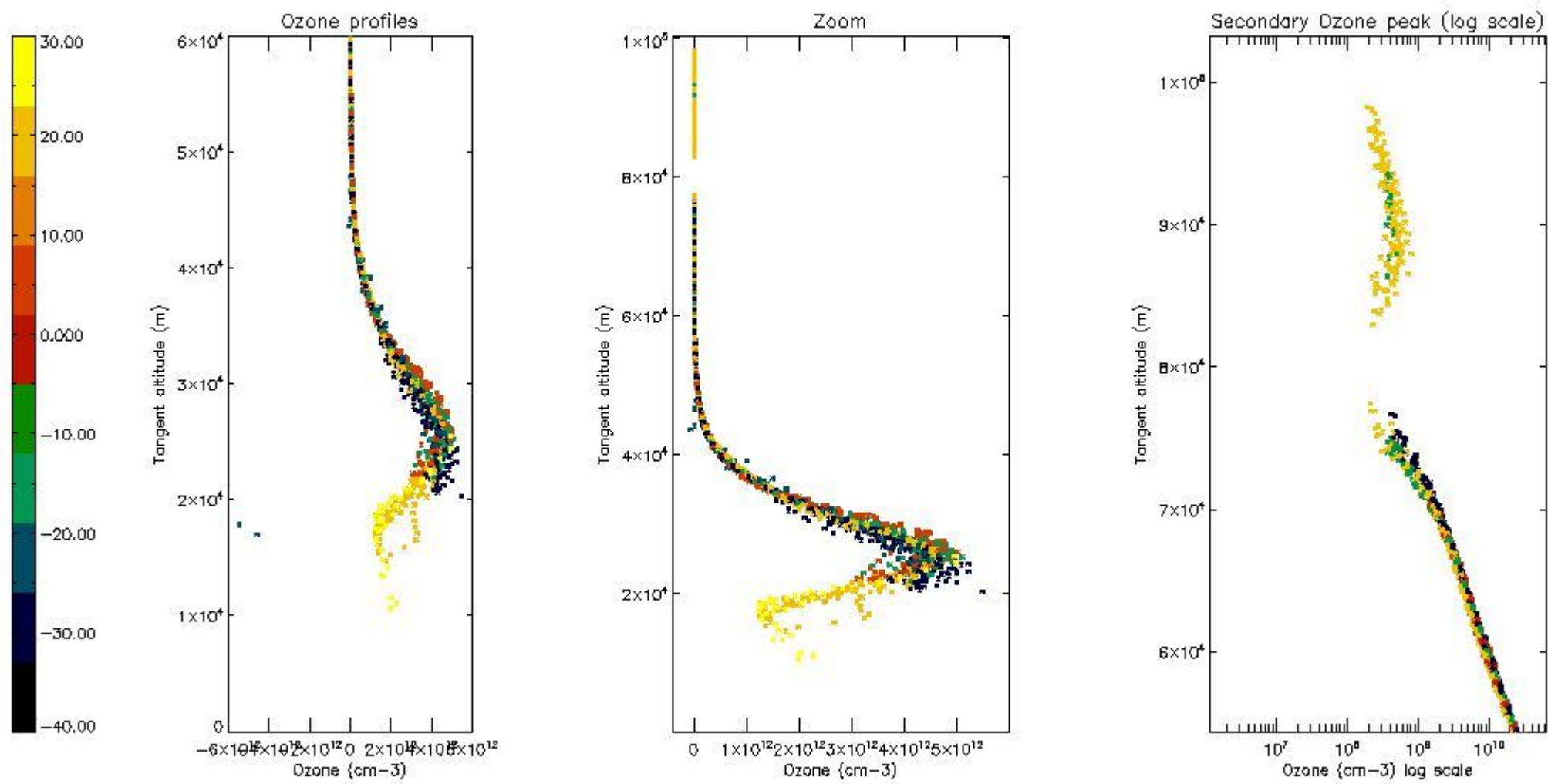
The colorbar represents the latitude.





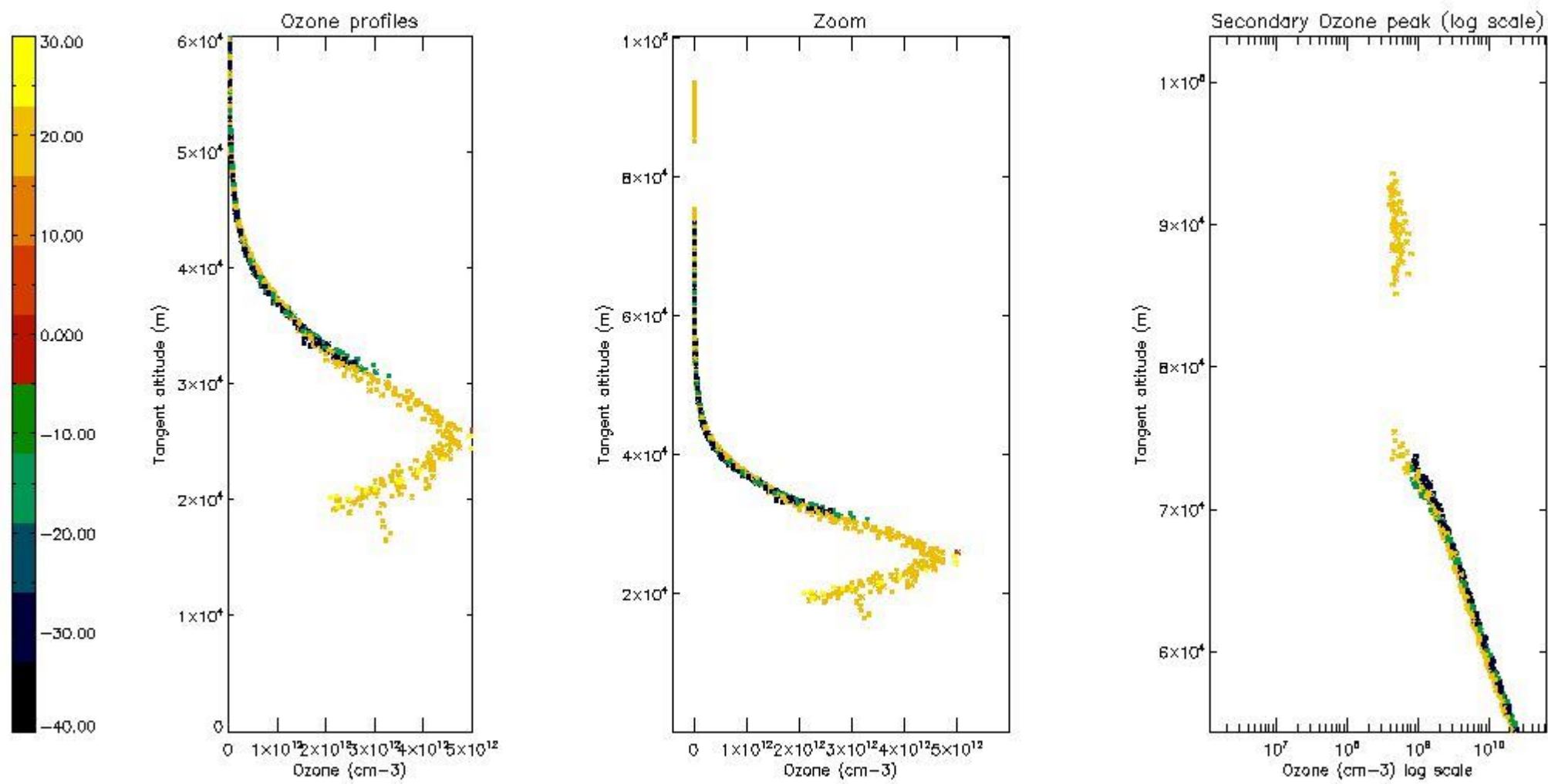
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



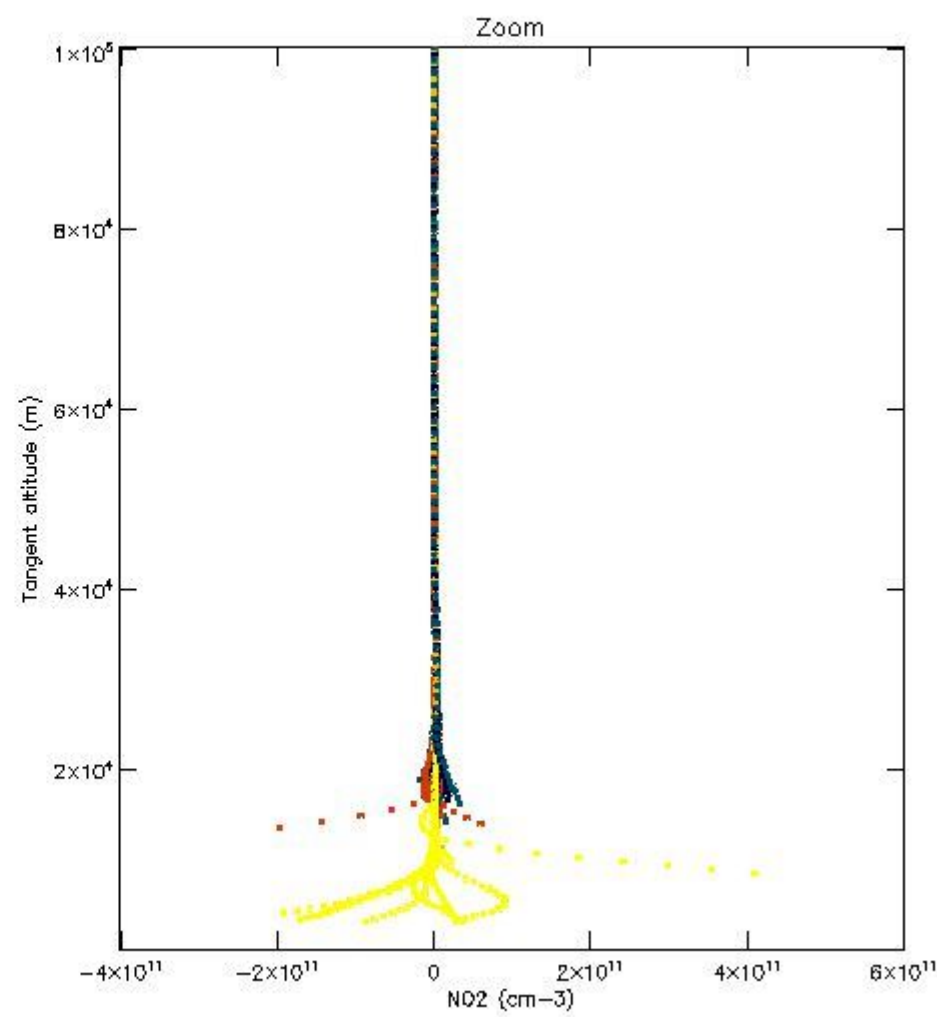
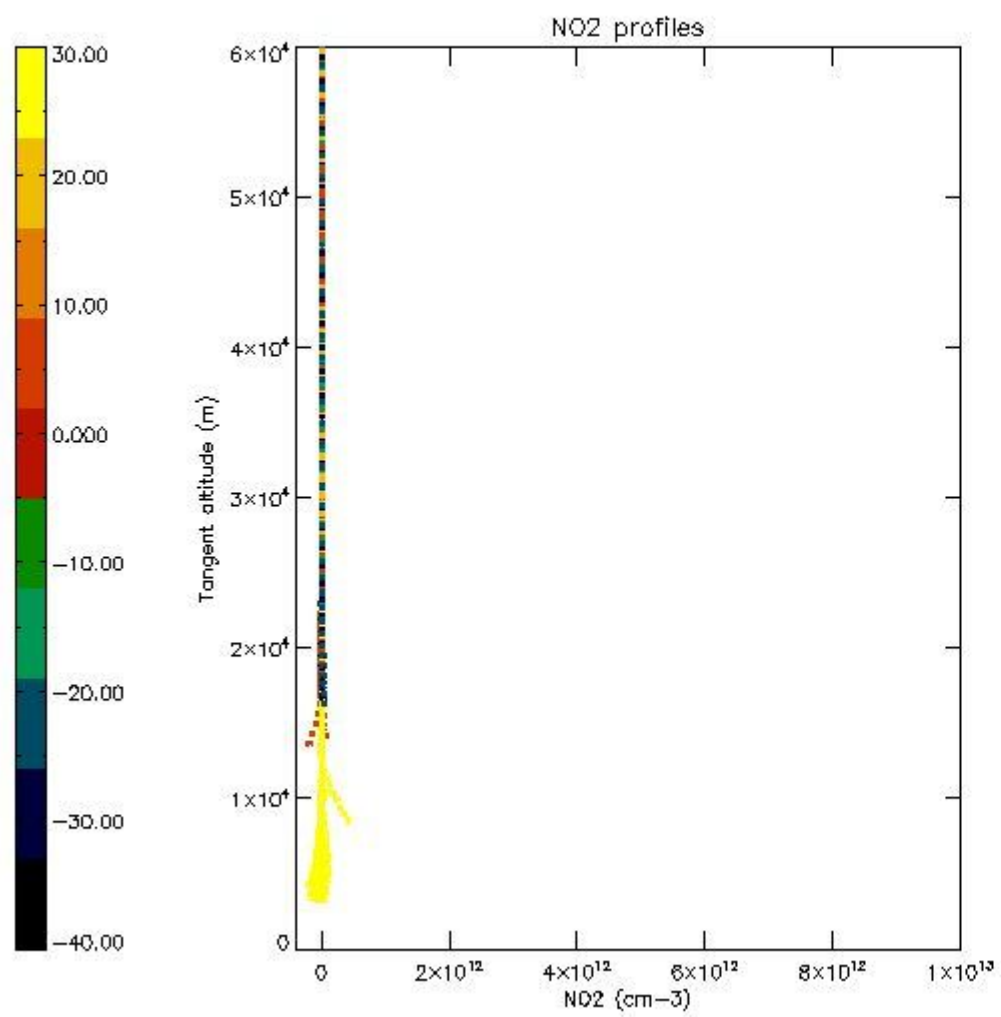
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



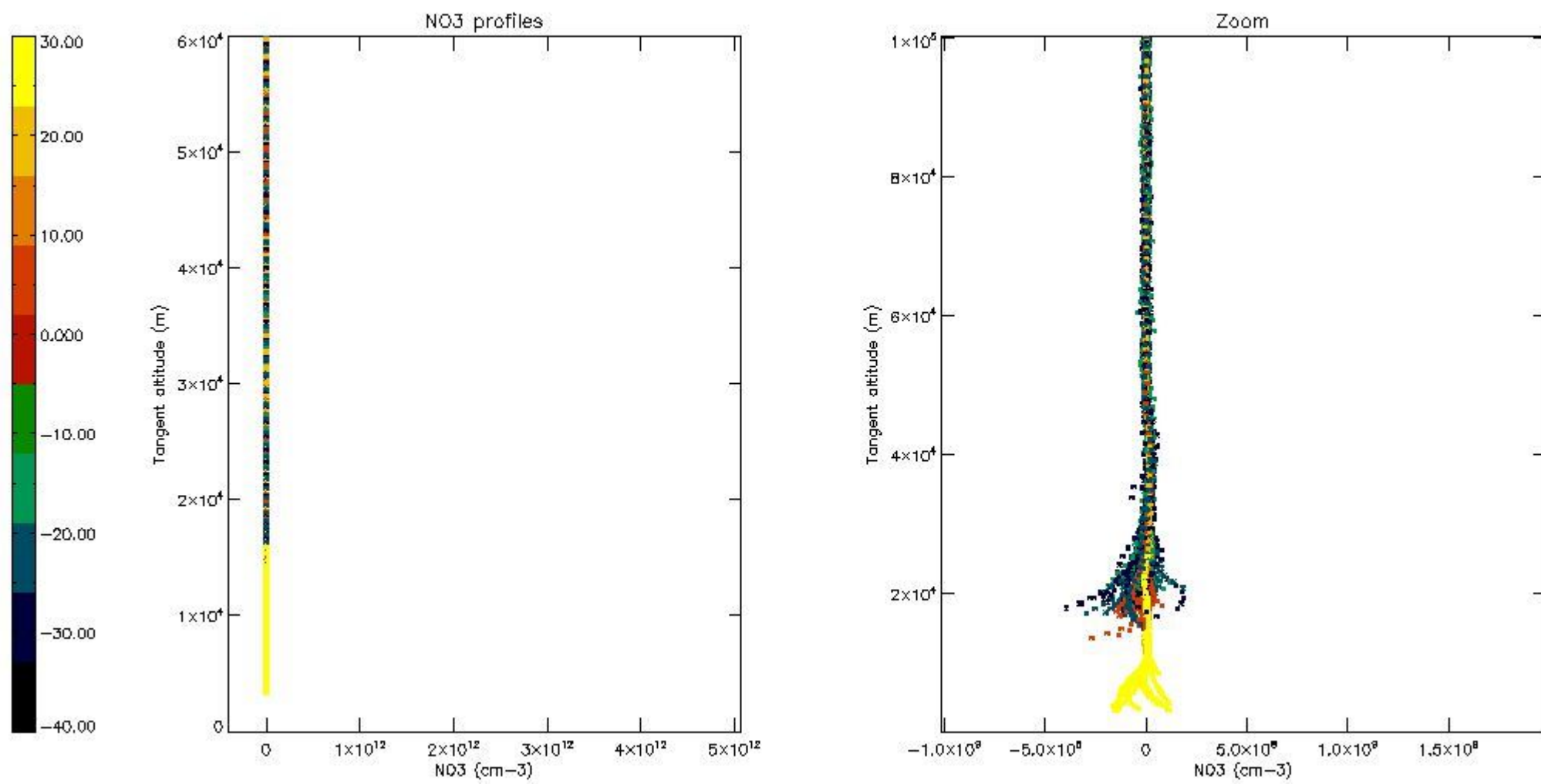
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



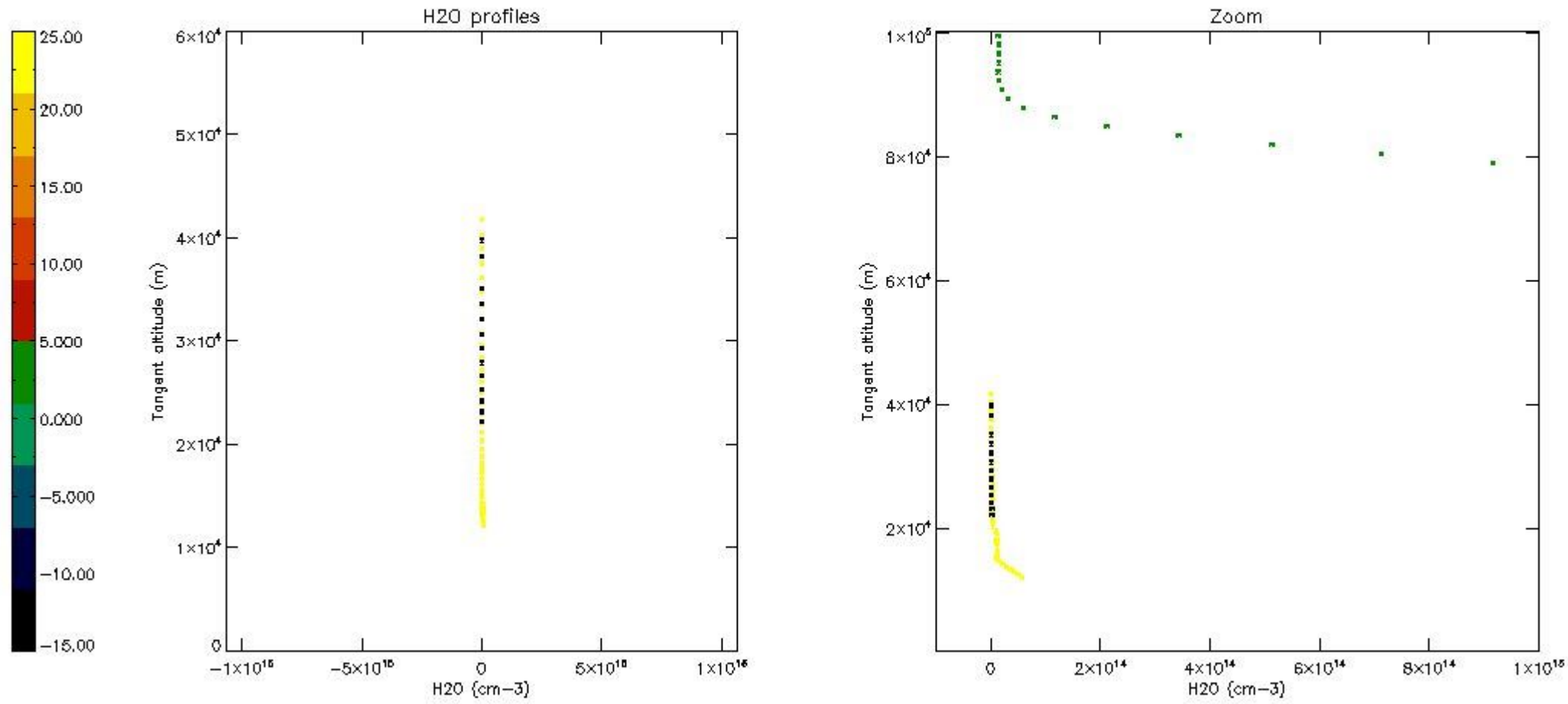
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



*5.8 Plot H2O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors)*

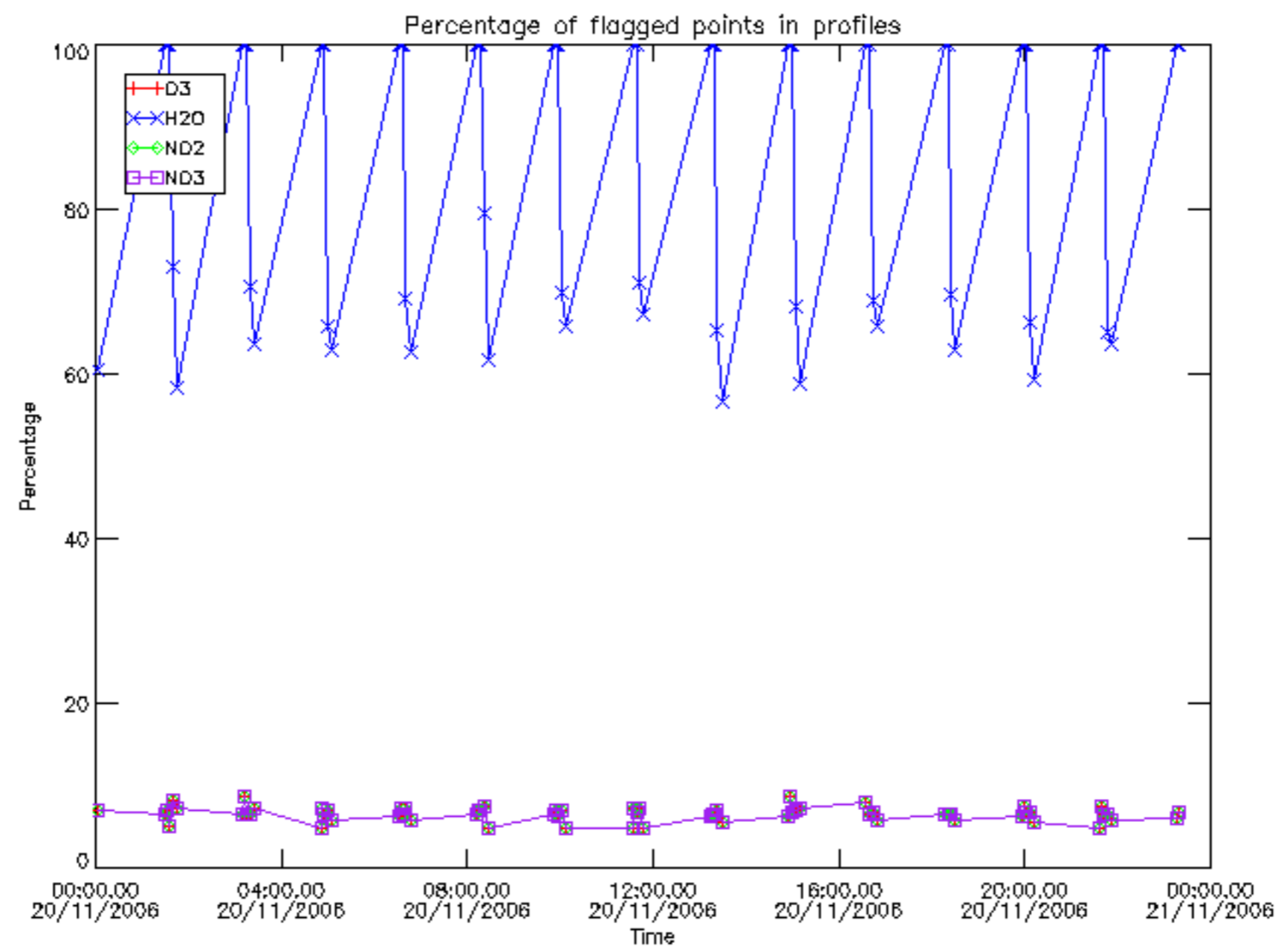
The colorbar represents the latitude.



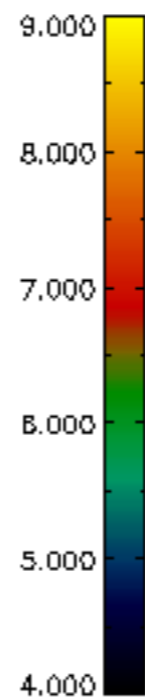
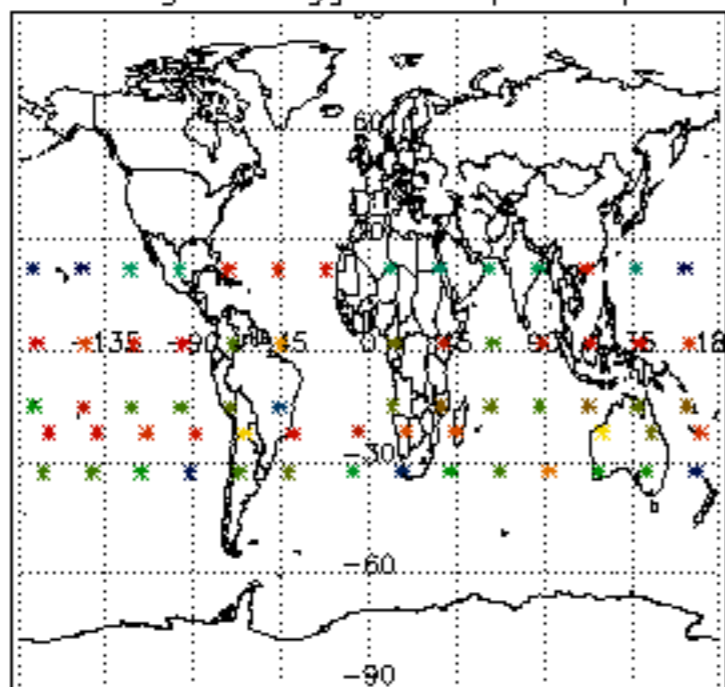
## 6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

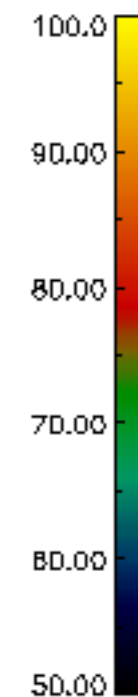
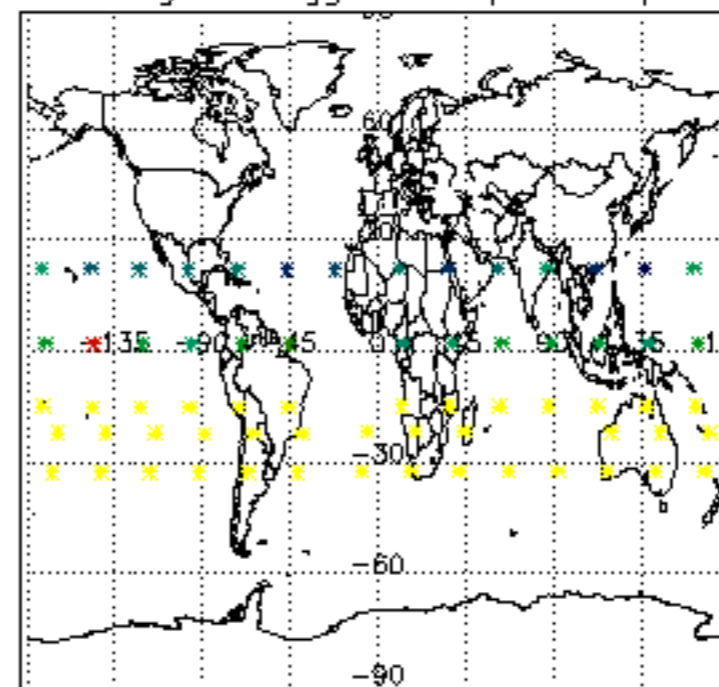
| Type                      | Auxiliary Filename  | Used since product | Used since product date |
|---------------------------|---|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000 | 1                  | 20-NOV-2006 00:03:46    |
| LEVEL-2_PROC_CONFIG       | GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000 | 1                  | 20-NOV-2006 00:03:46    |
| CROSS_SECTIONS_FILE       | GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000 | 1                  | 20-NOV-2006 00:03:46    |



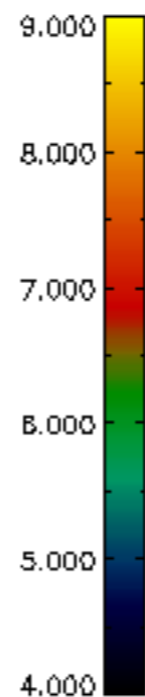
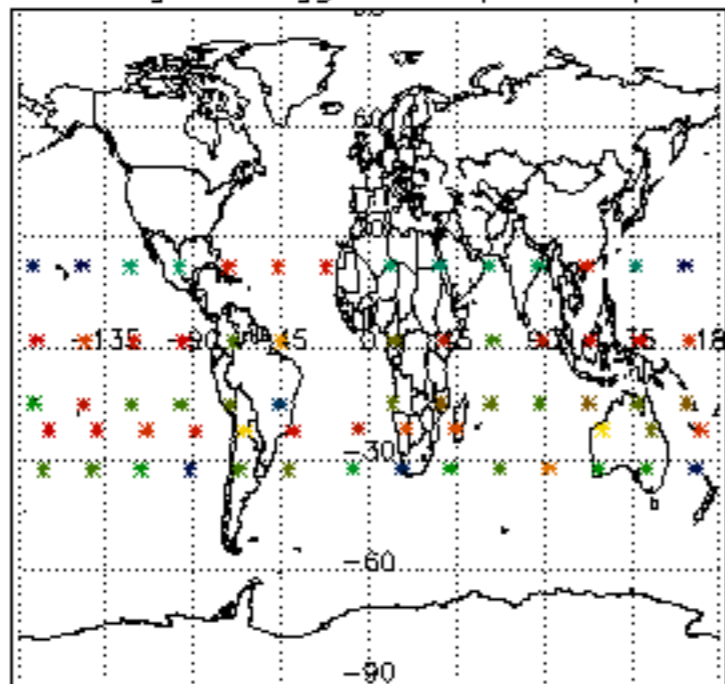
Percentage of flagged data per D3 profile



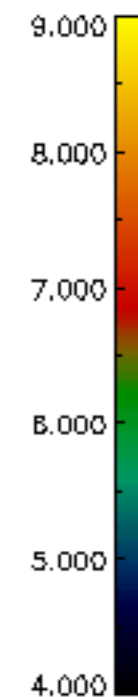
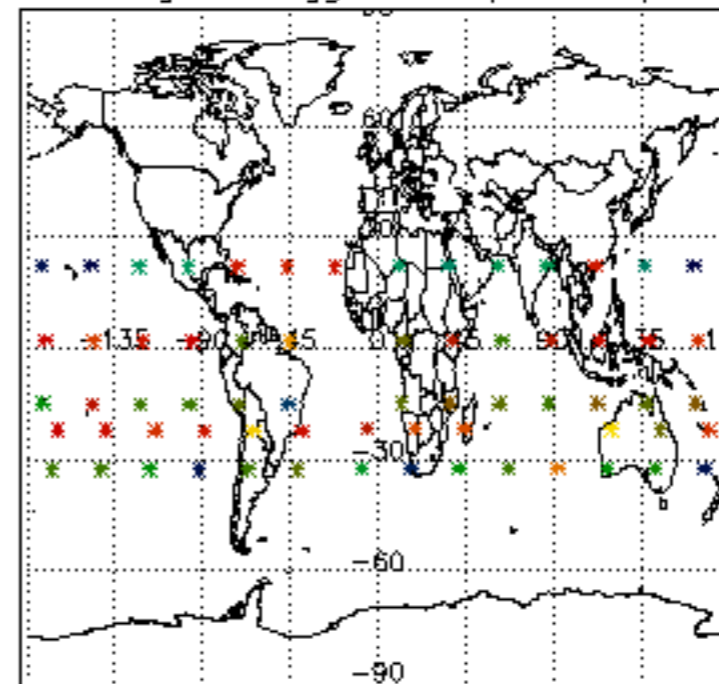
Percentage of flagged data per H2O profile



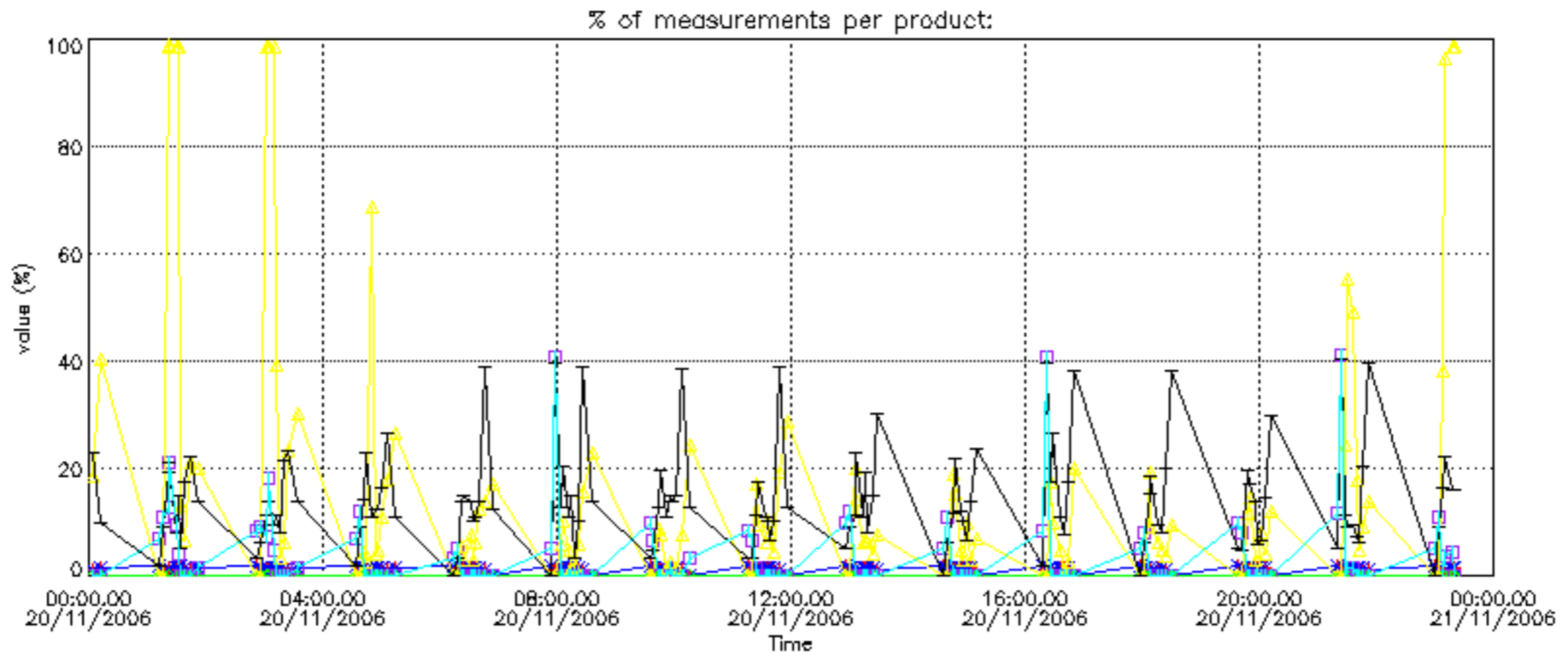
Percentage of flagged data per NO2 profile

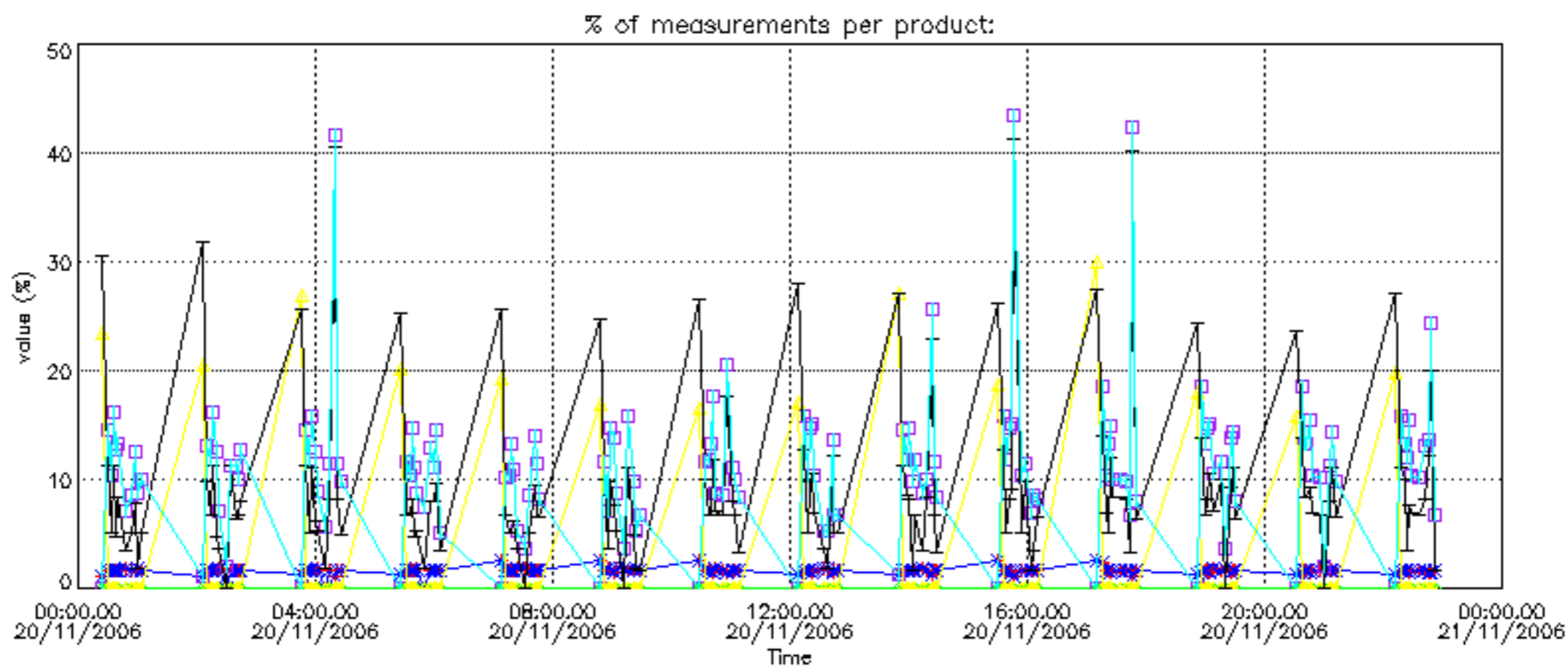


Percentage of flagged data per NO3 profile

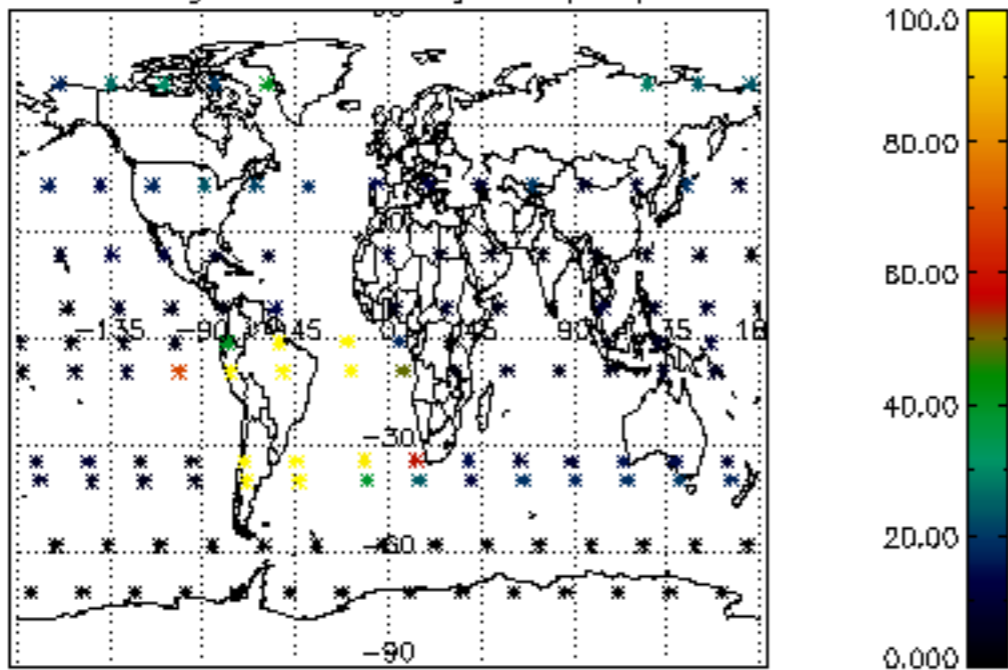




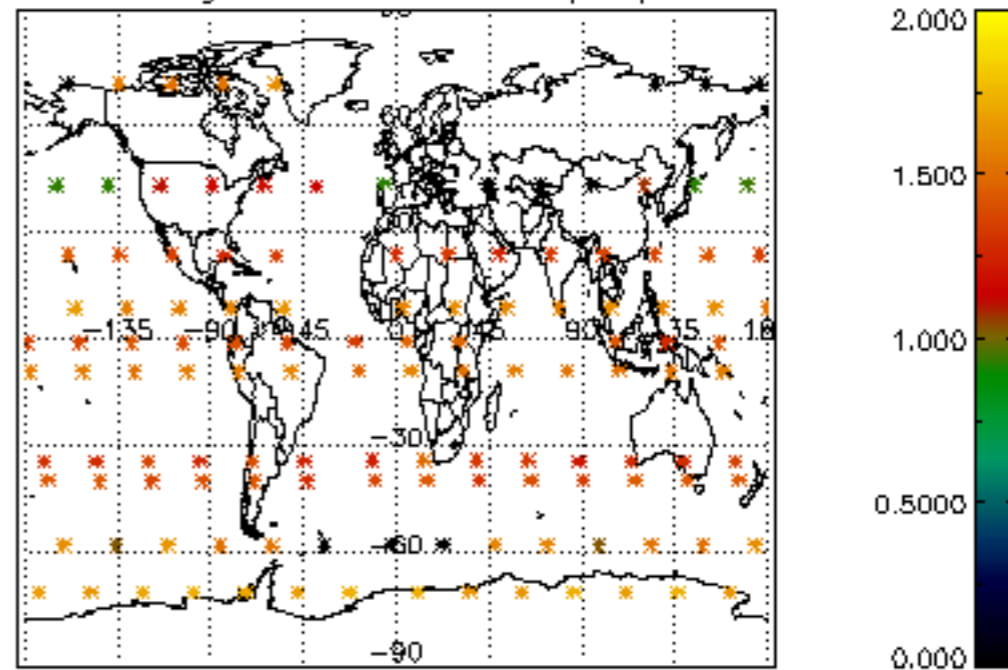




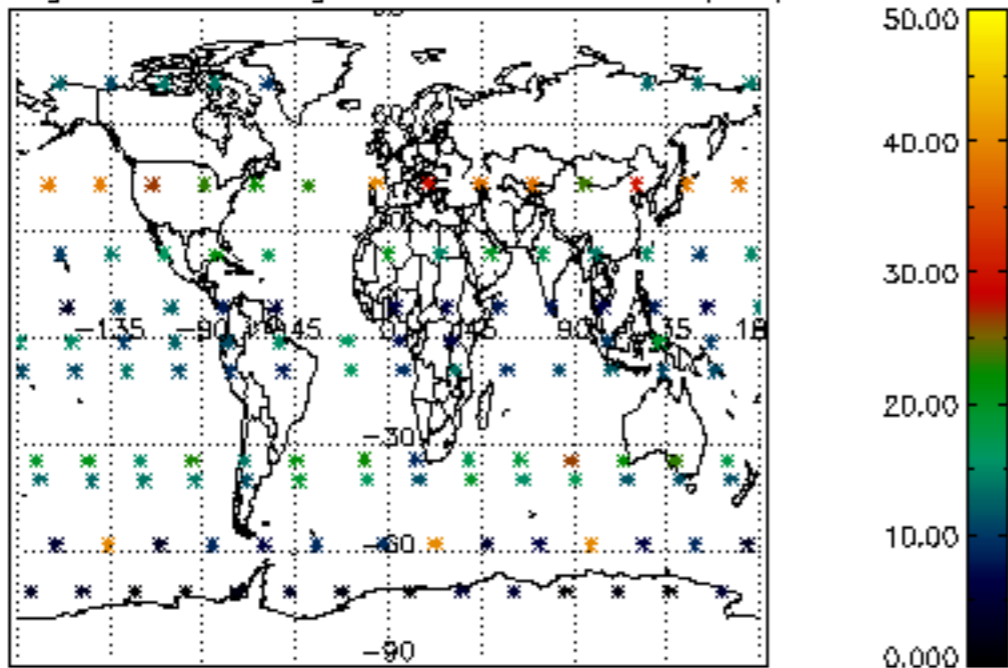
Percentage of cosmic ray hits per profile



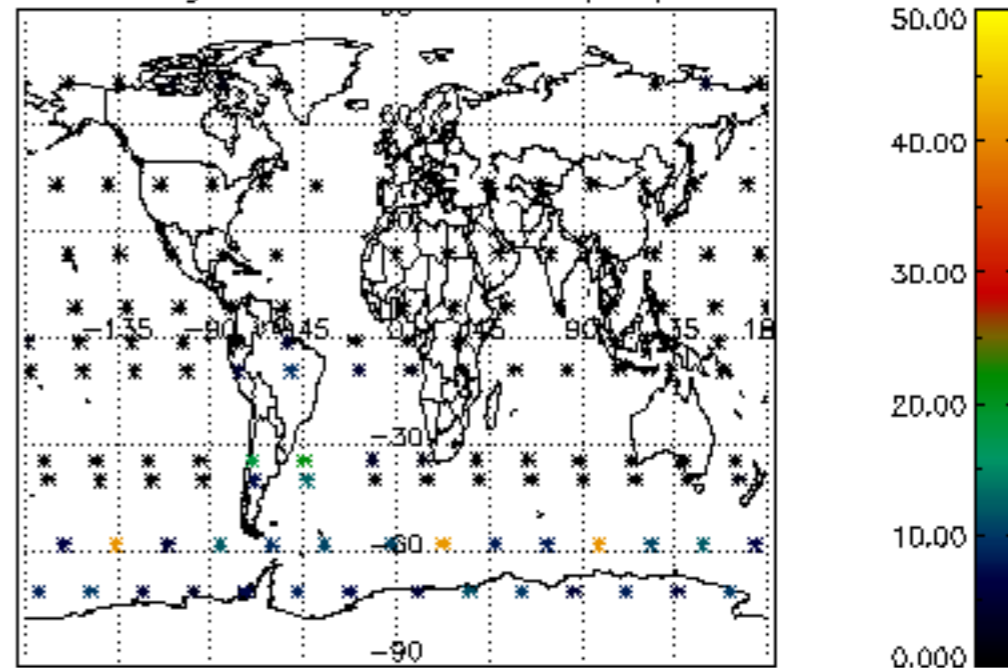
Percentage of datation errors per profile



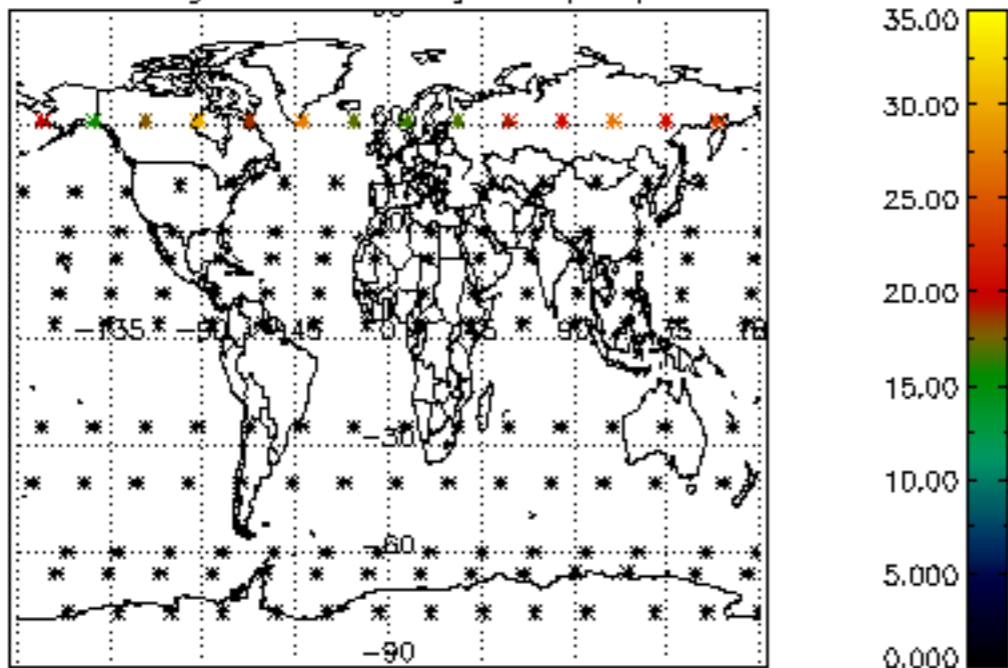
Percentage of star falling outside central band per profile



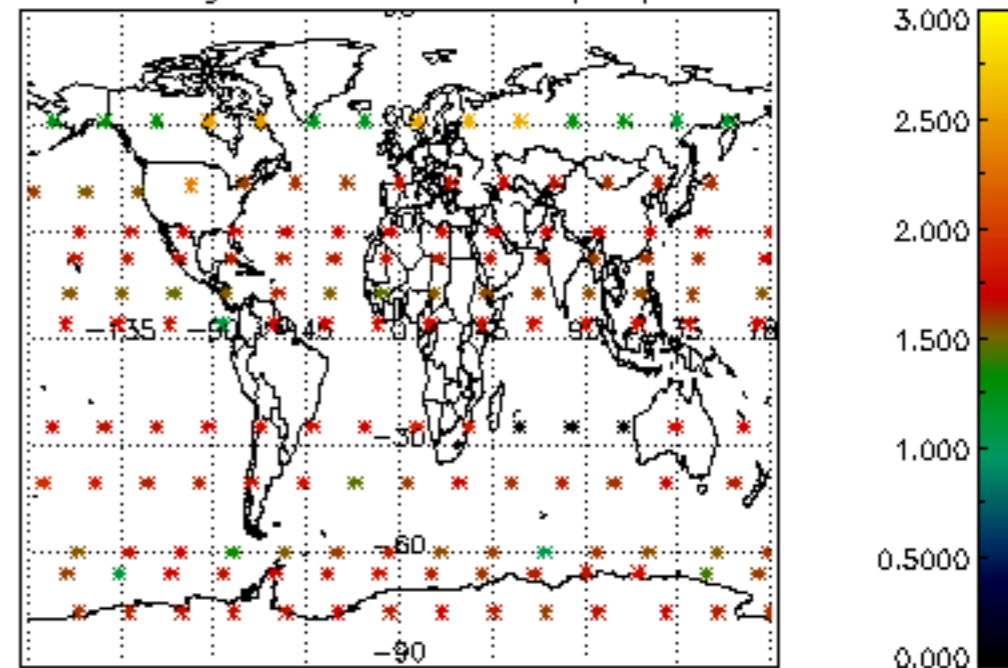
Percentage of saturation errors per profile



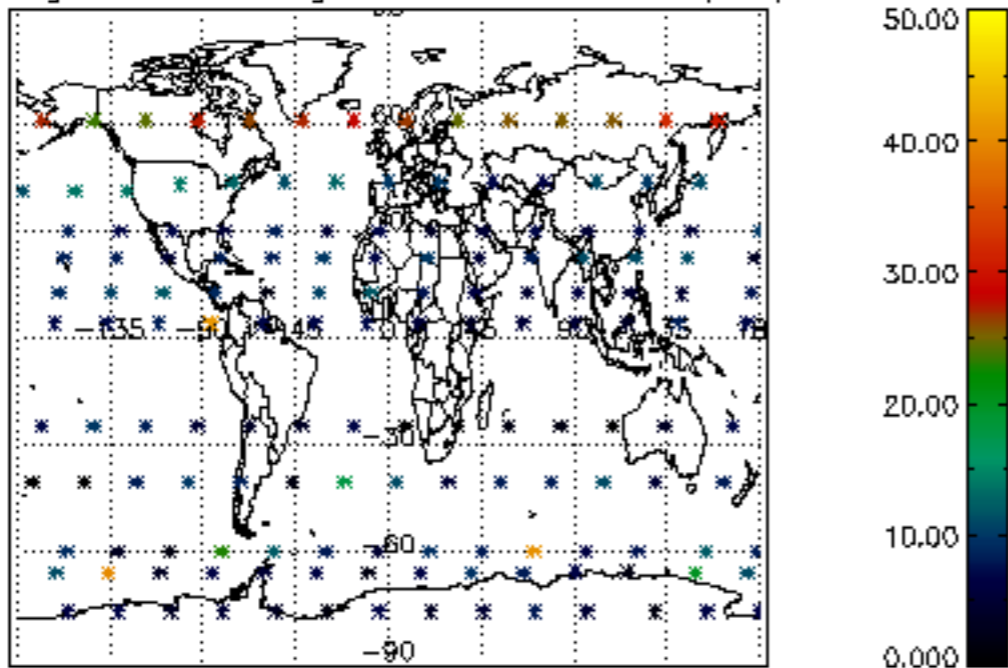
Percentage of cosmic ray hits per profile



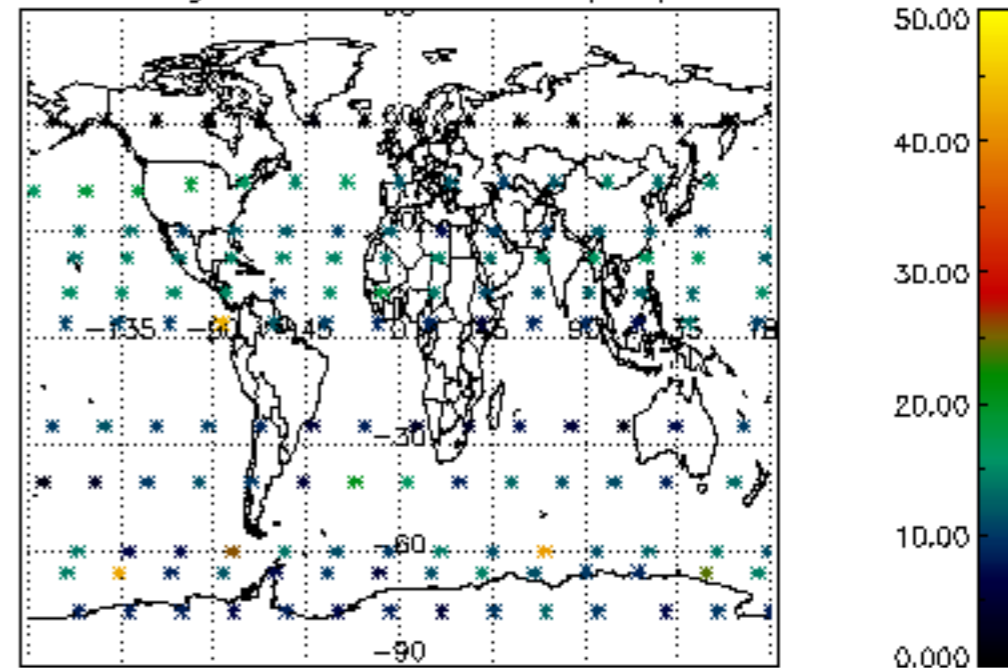
Percentage of datation errors per profile

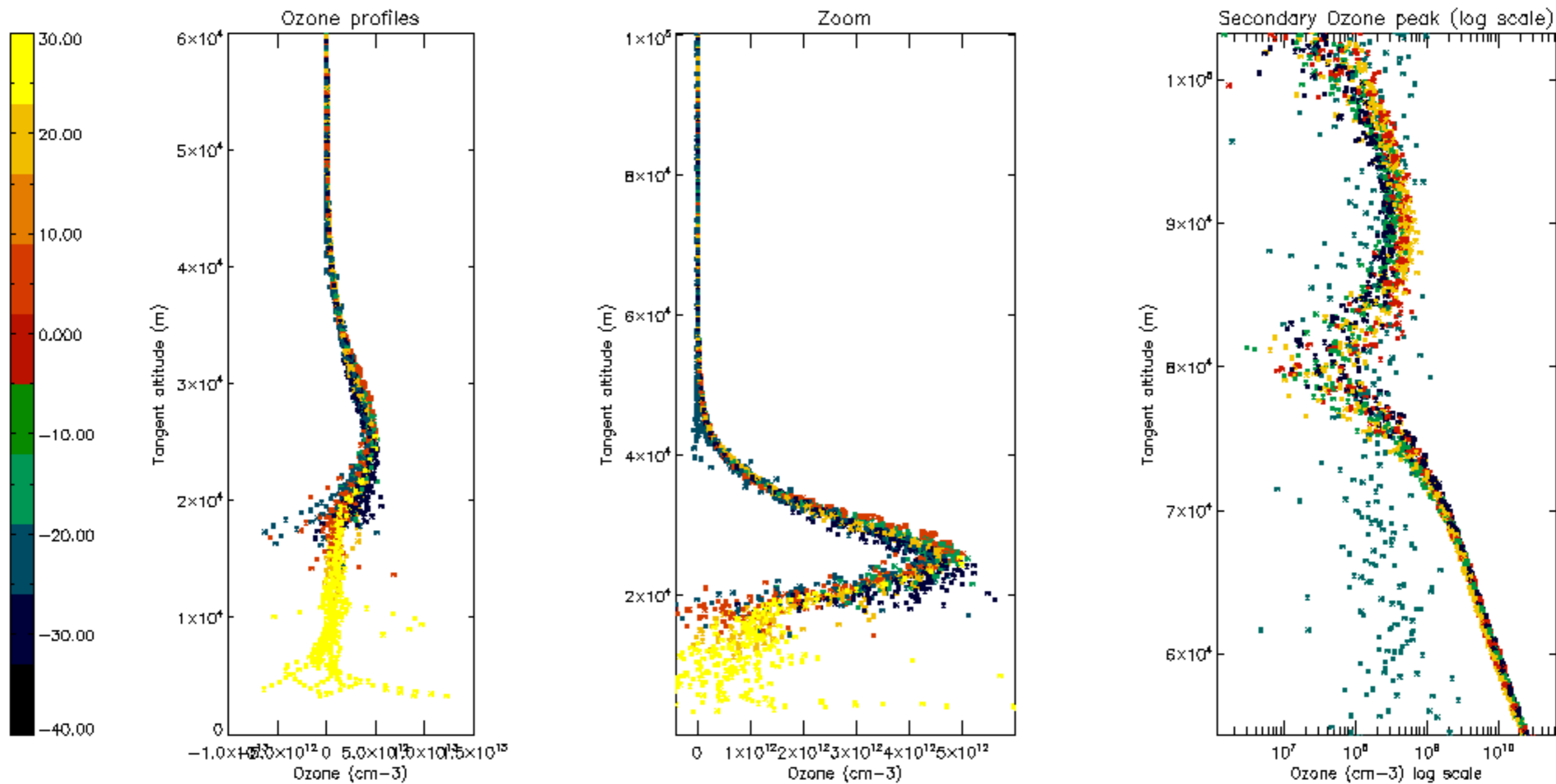


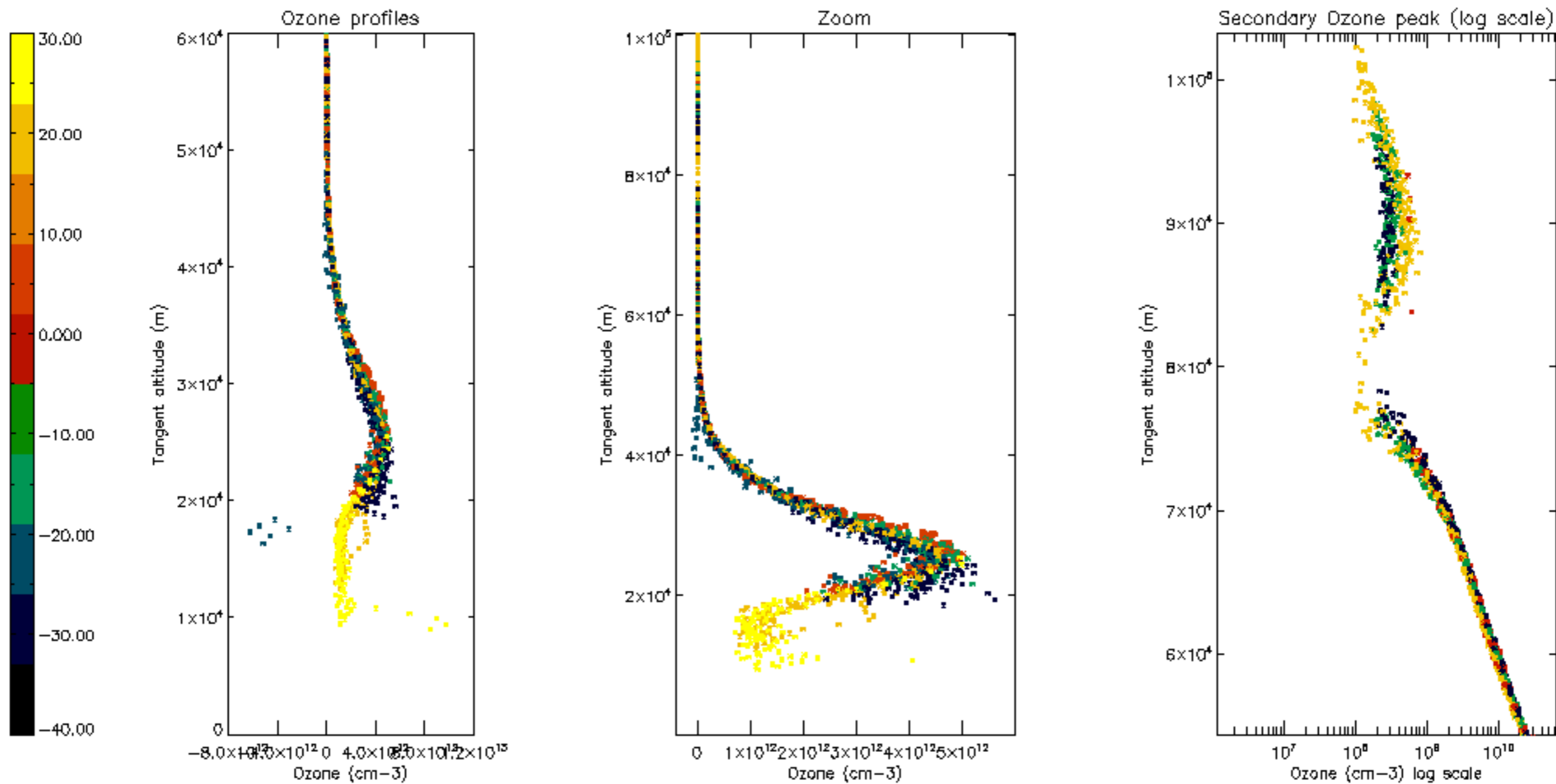
Percentage of star falling outside central band per profile

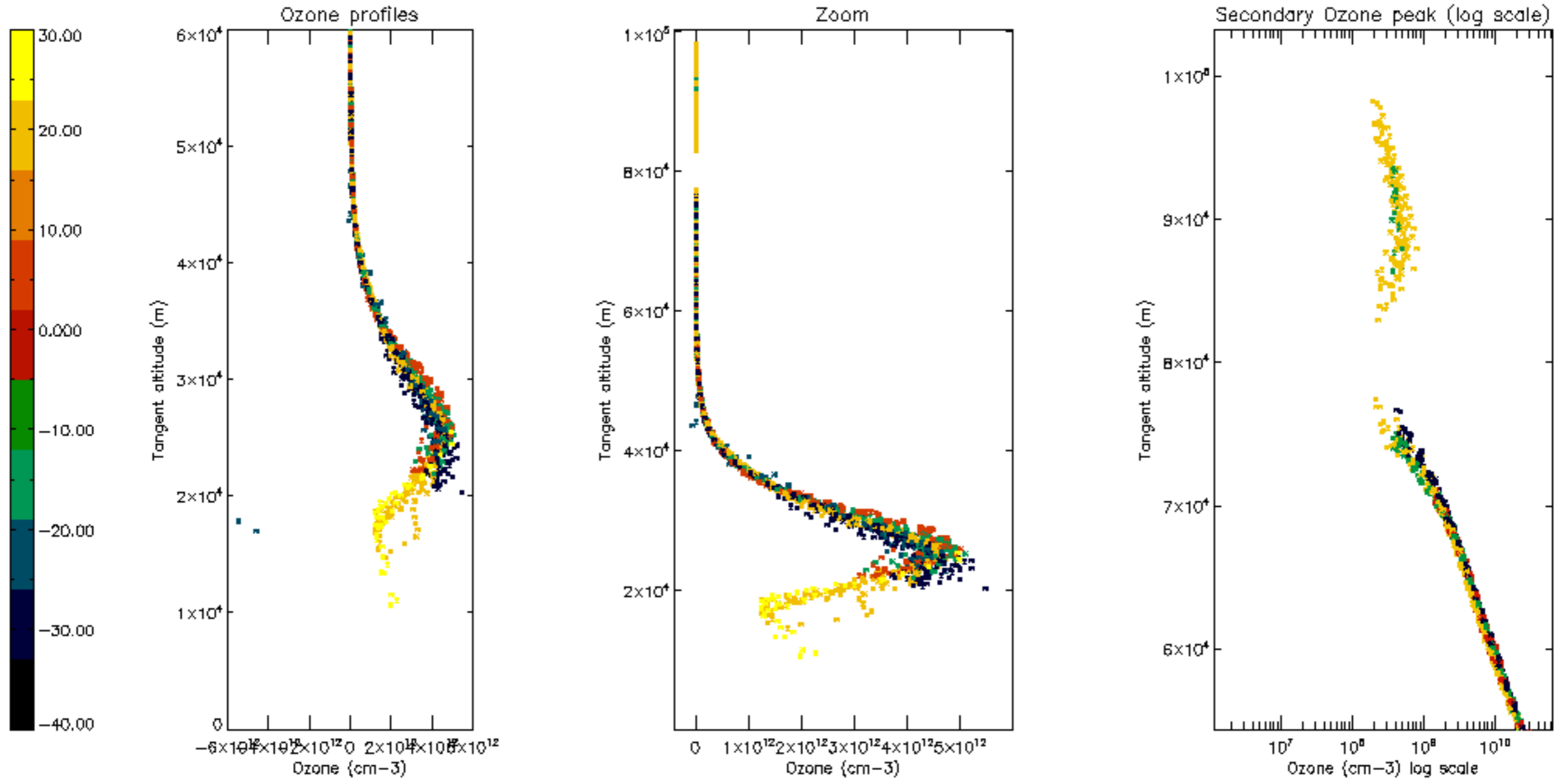


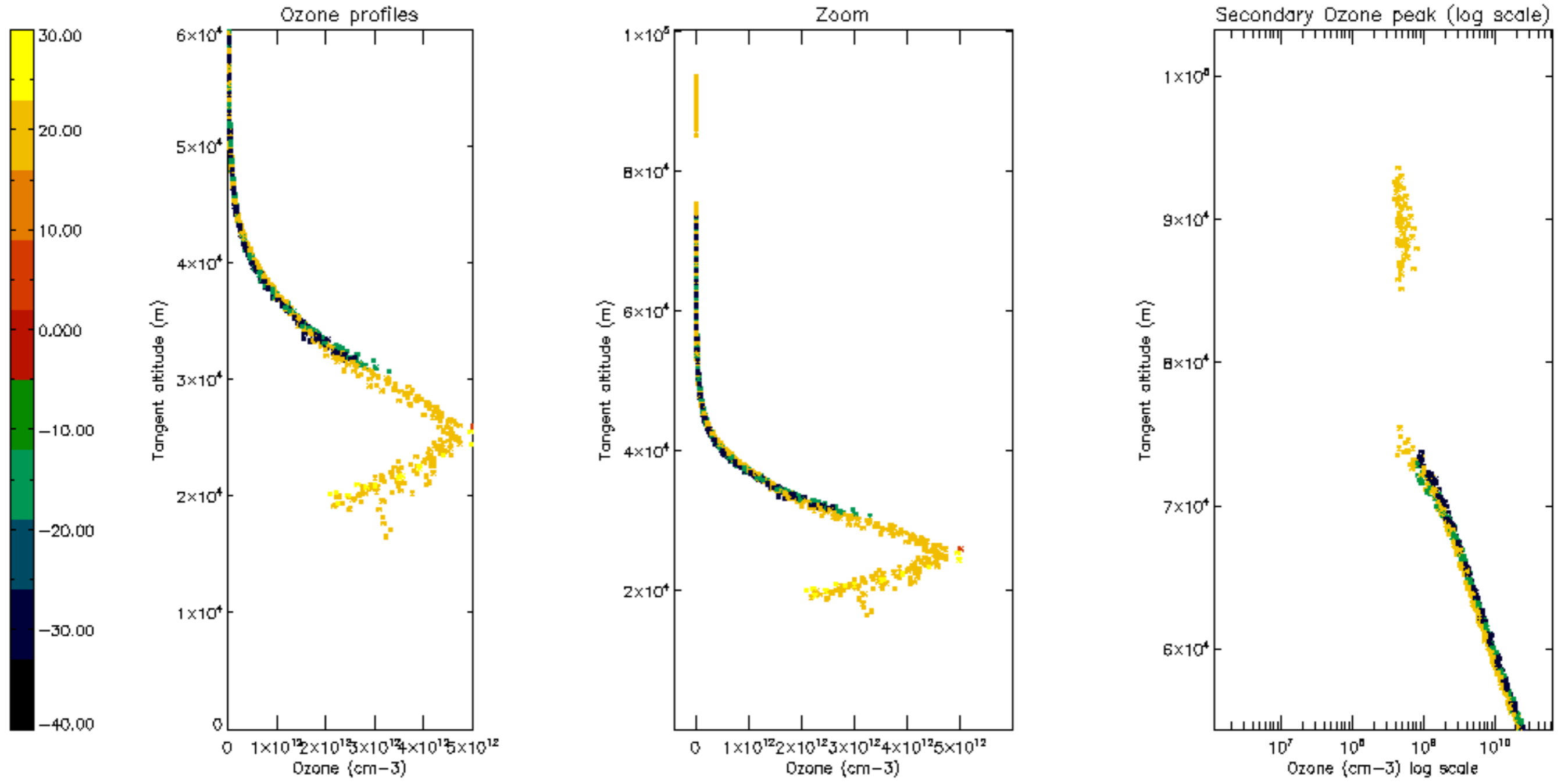
Percentage of saturation errors per profile



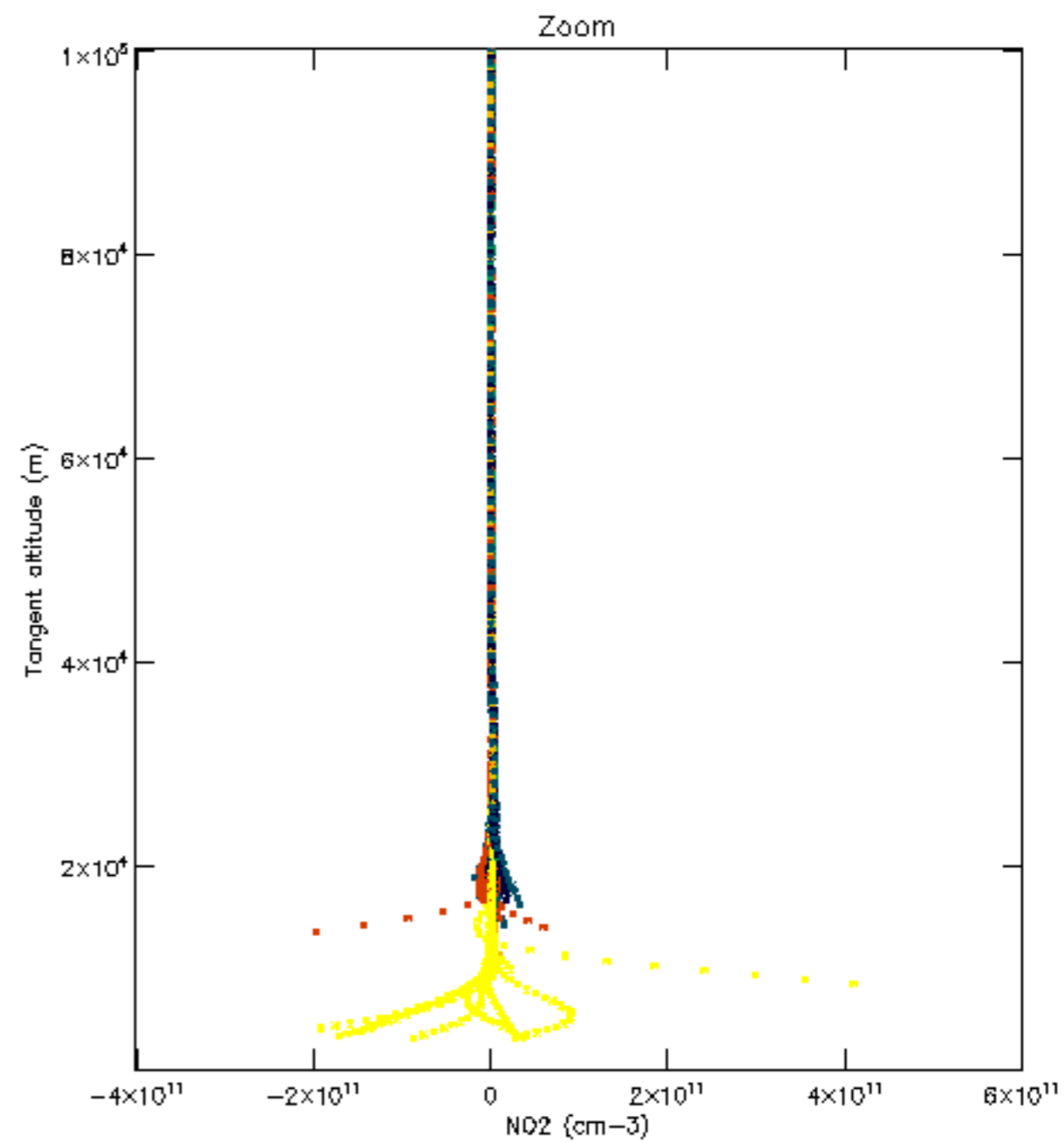
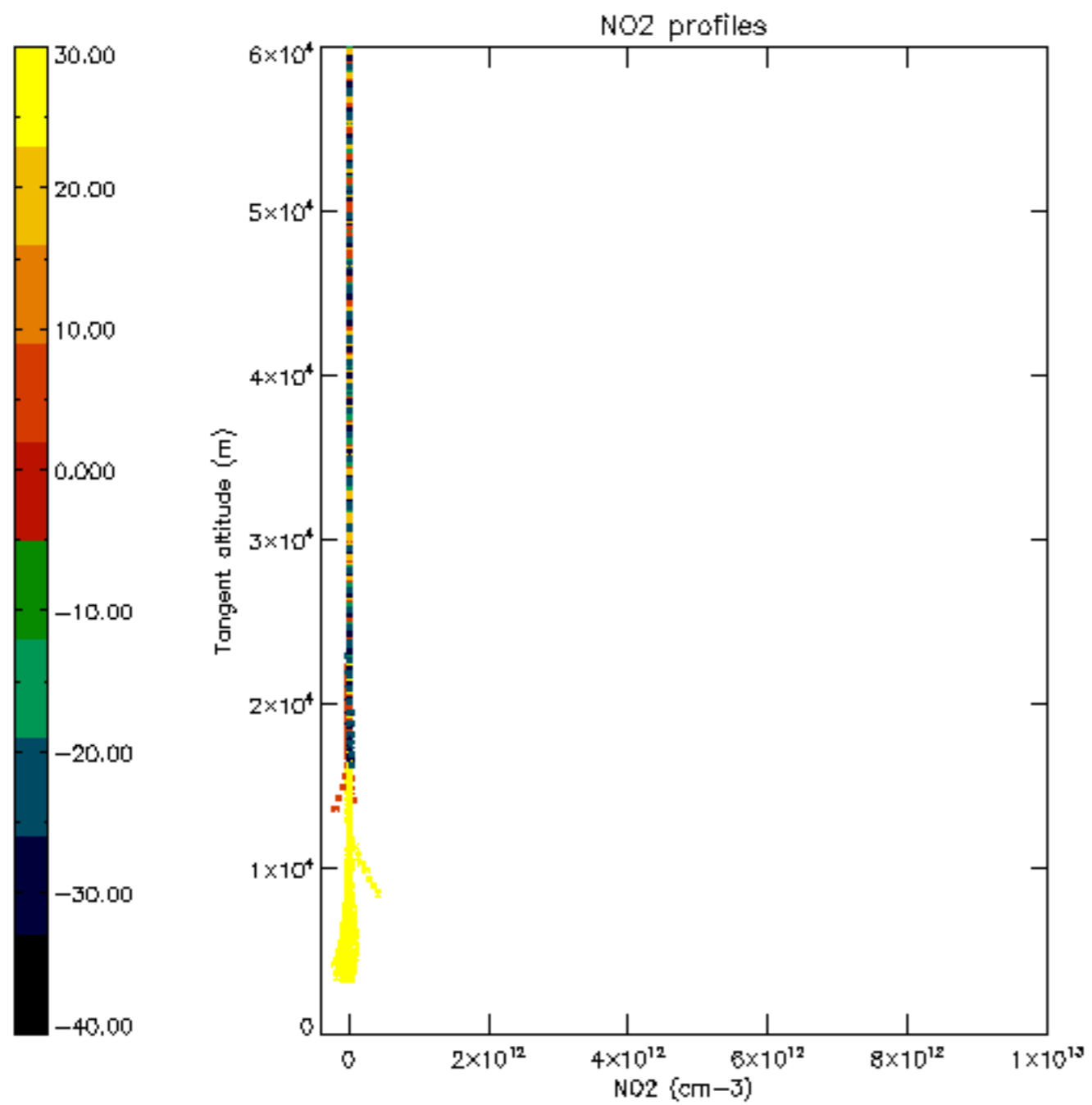


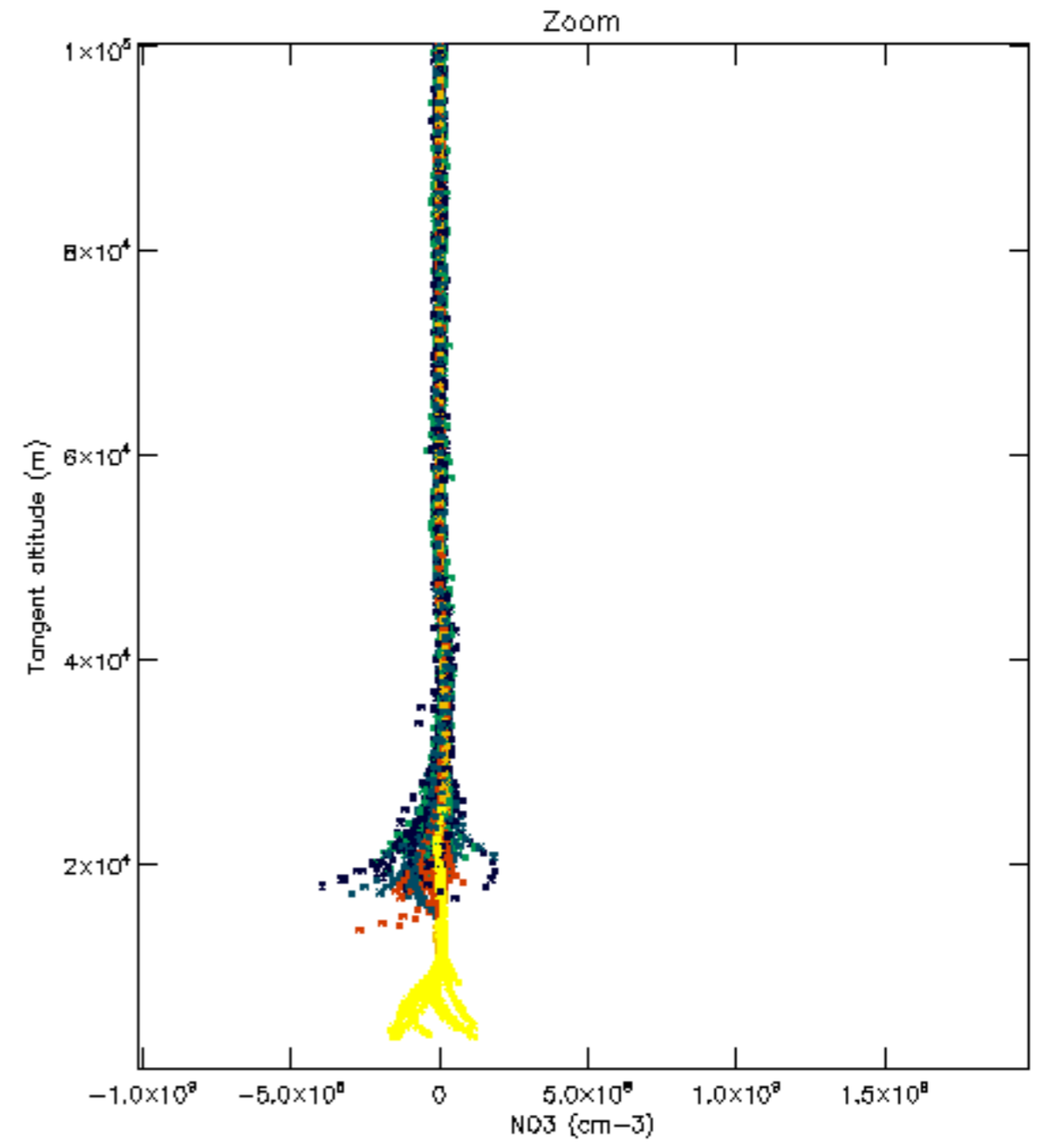
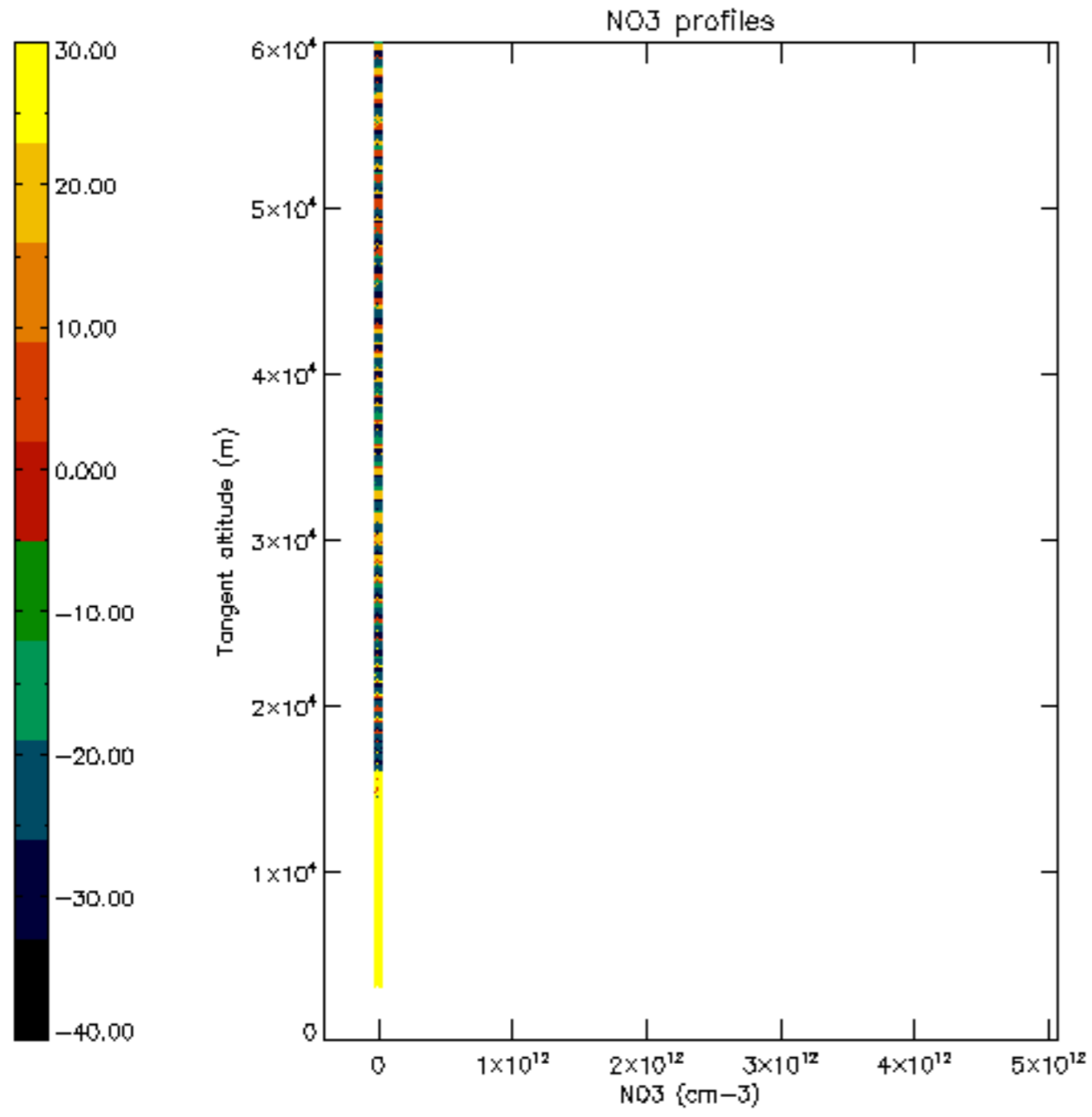


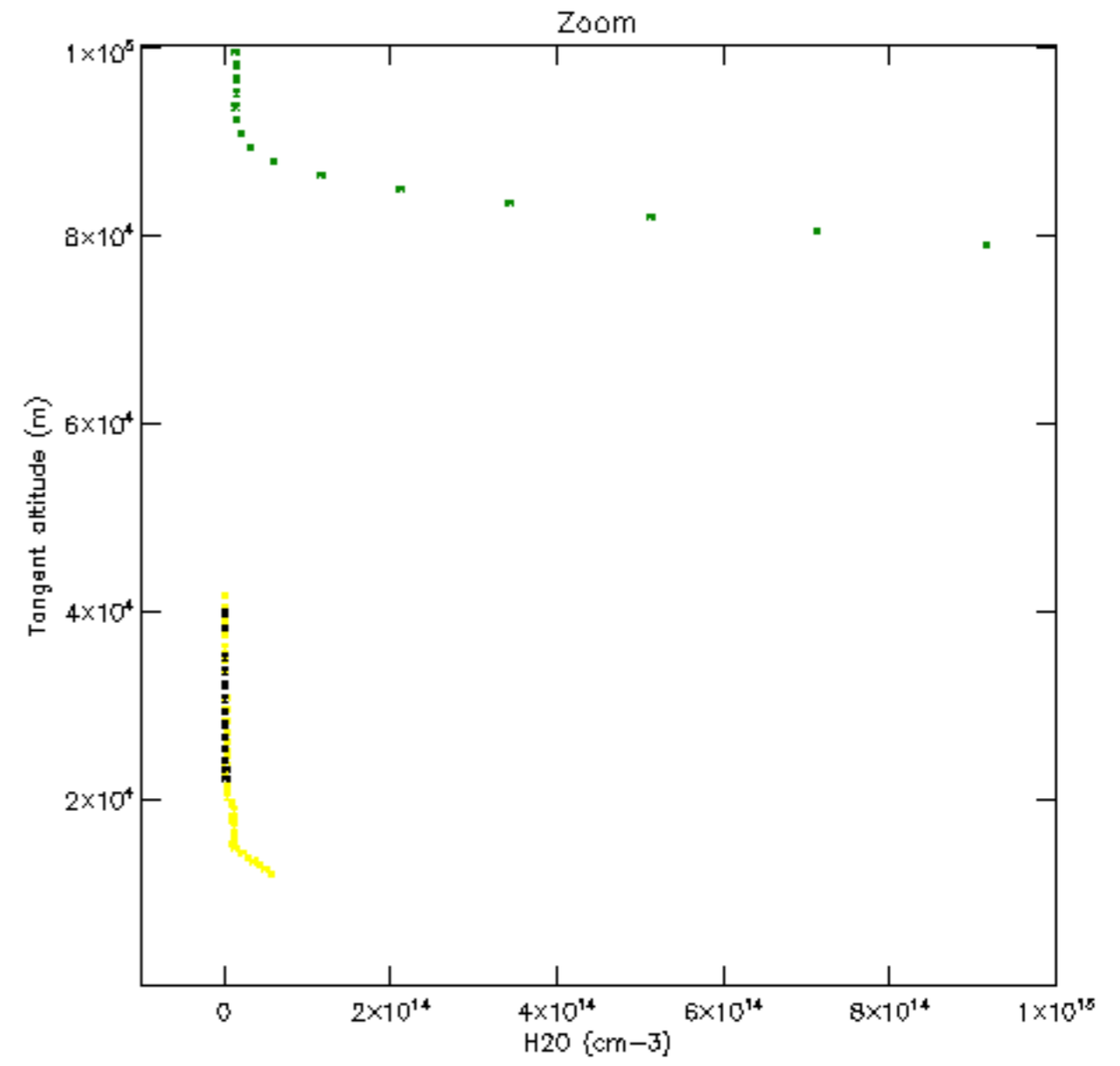
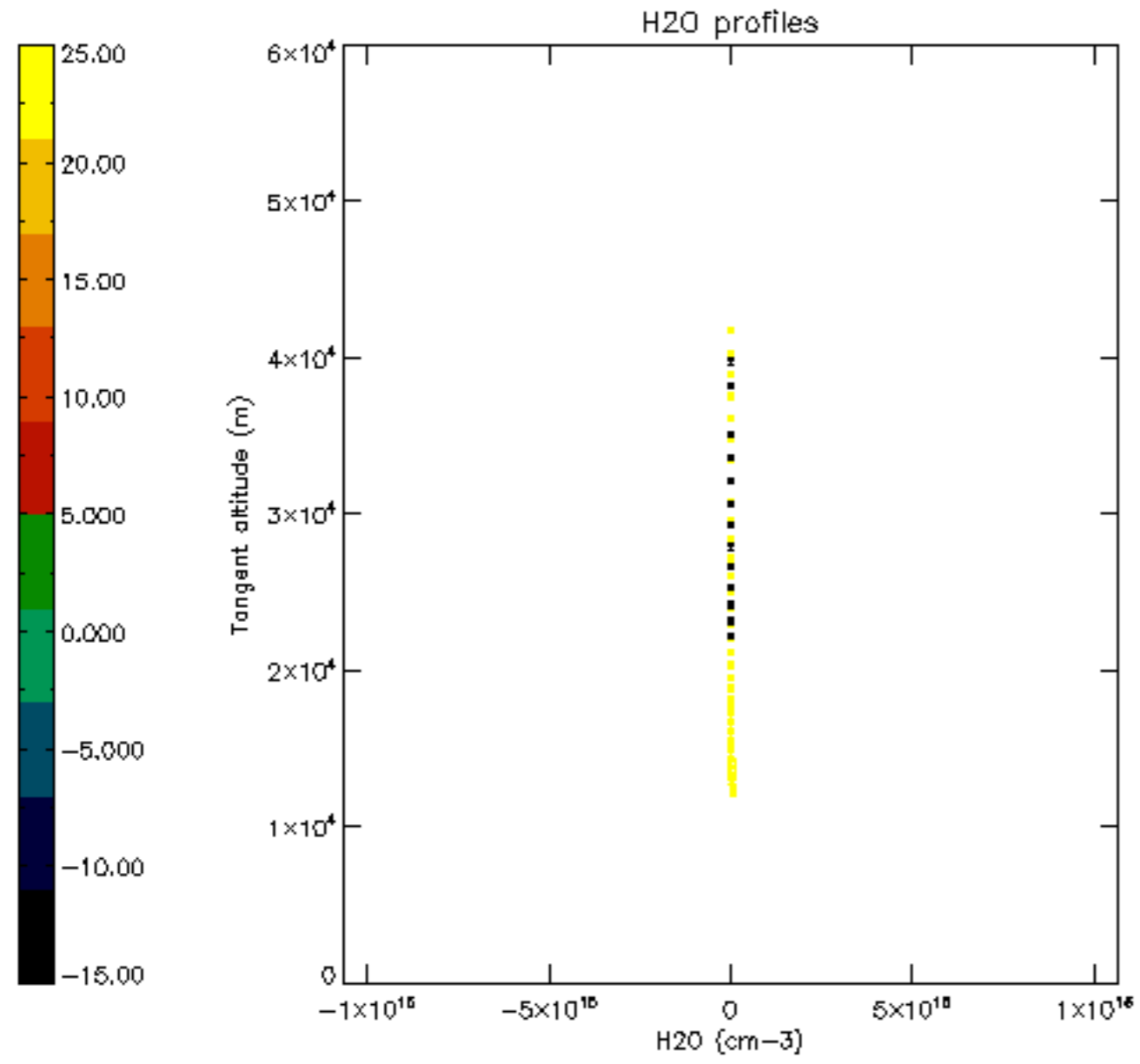


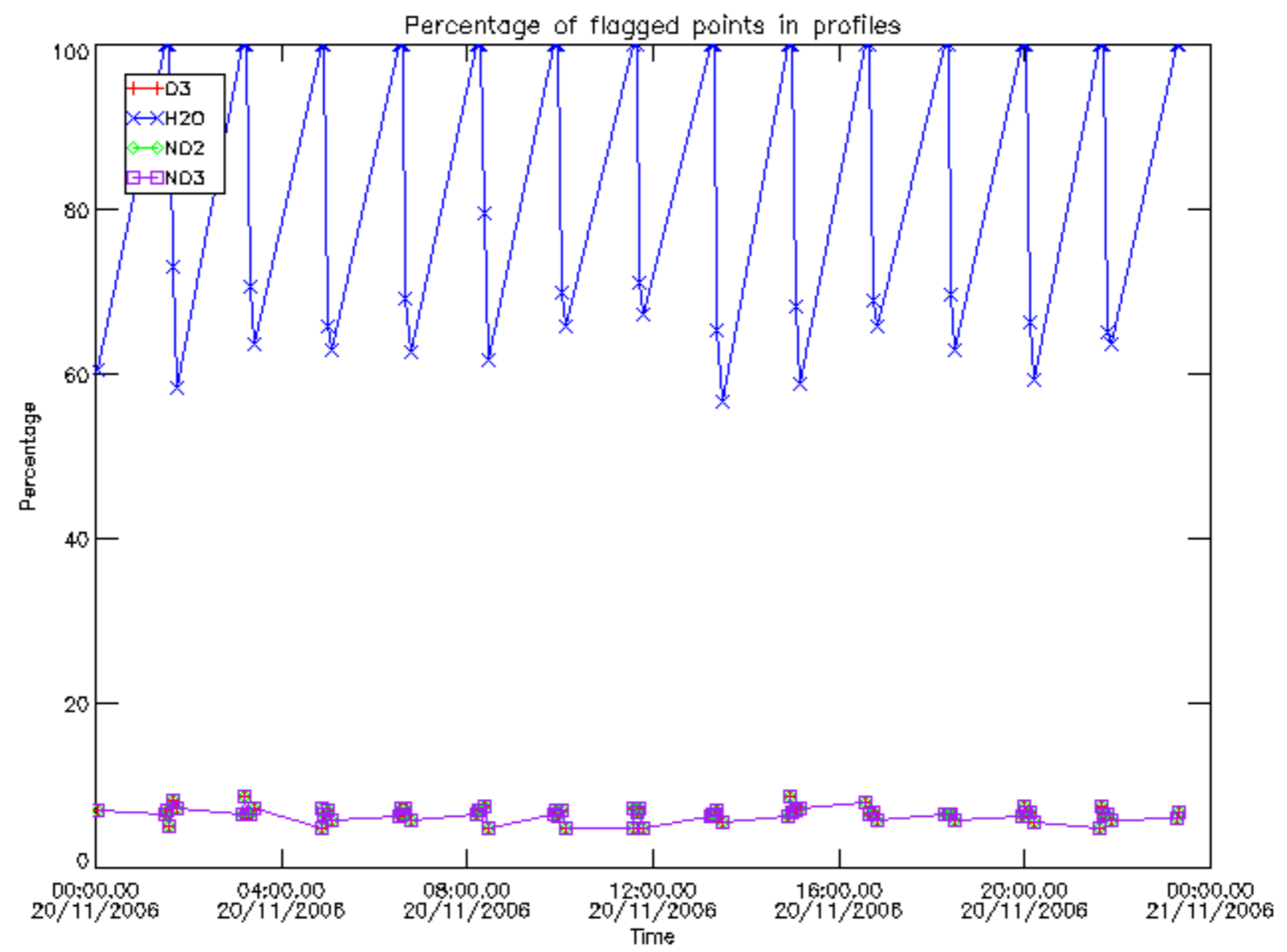




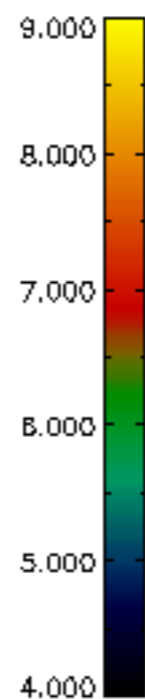
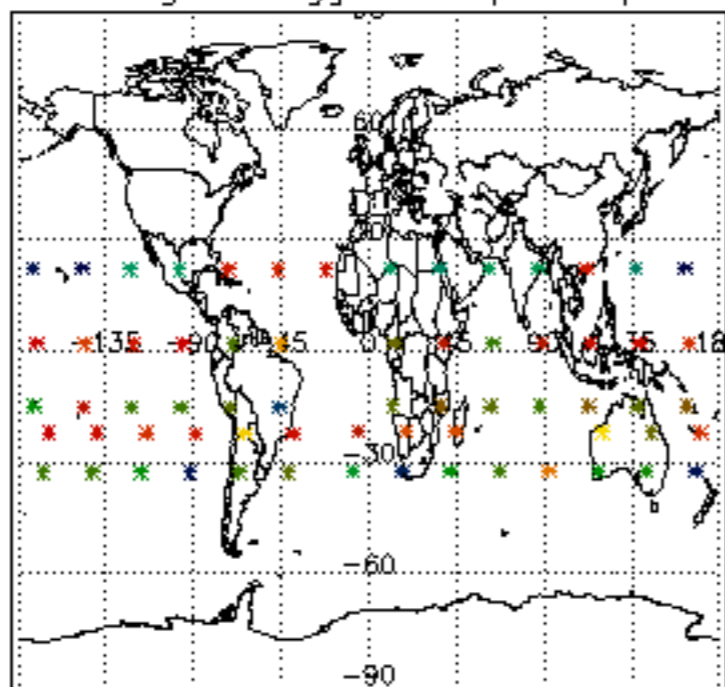




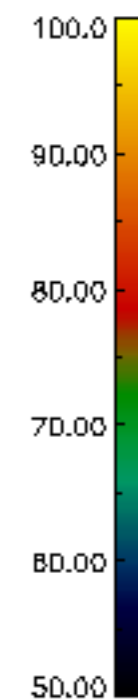
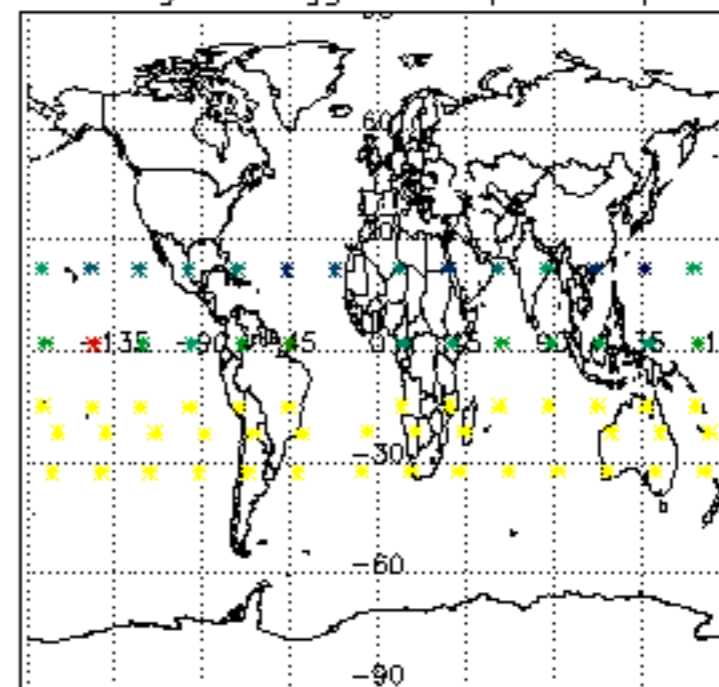




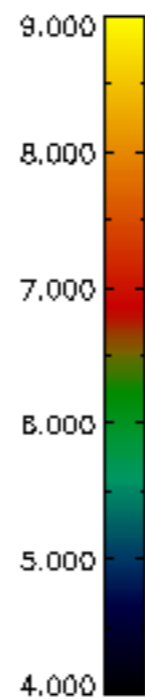
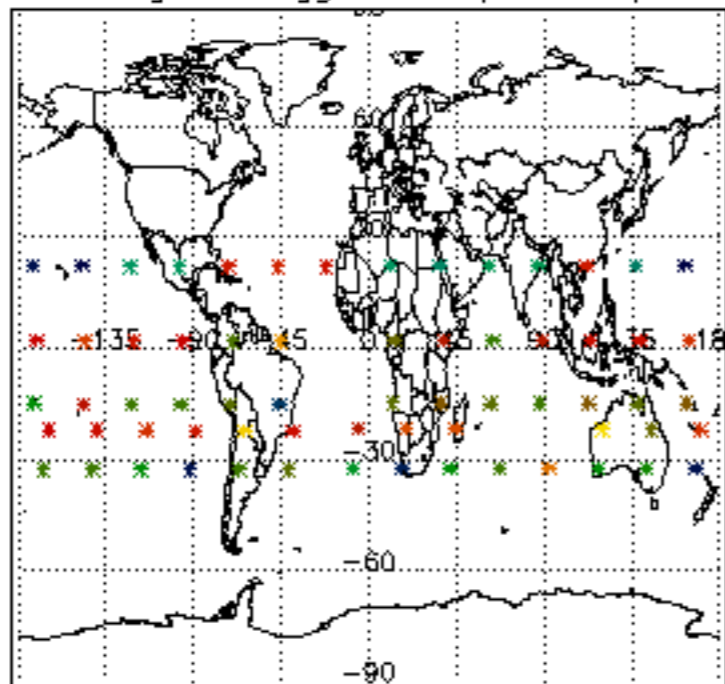
Percentage of flagged data per D3 profile



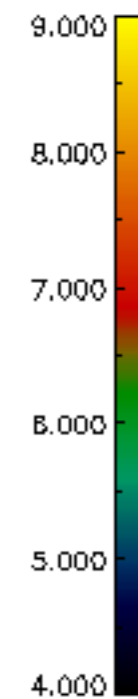
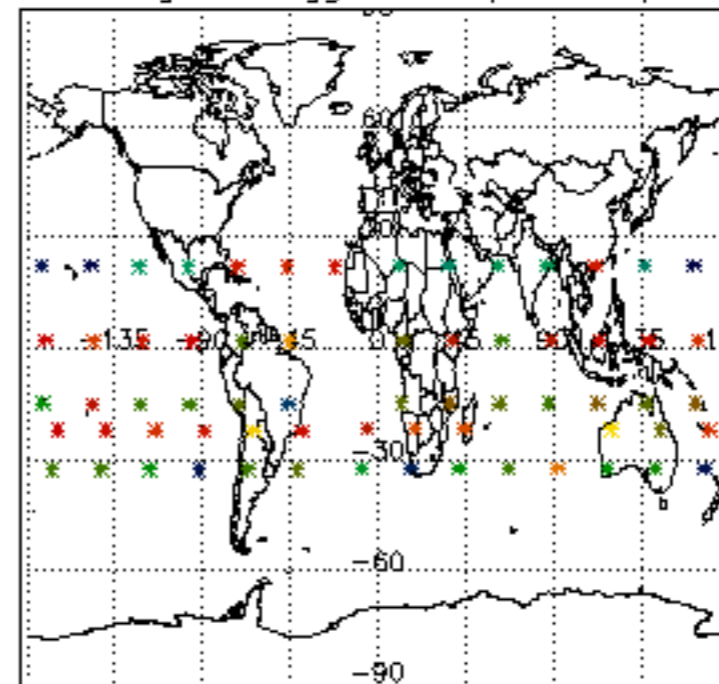
Percentage of flagged data per H2O profile

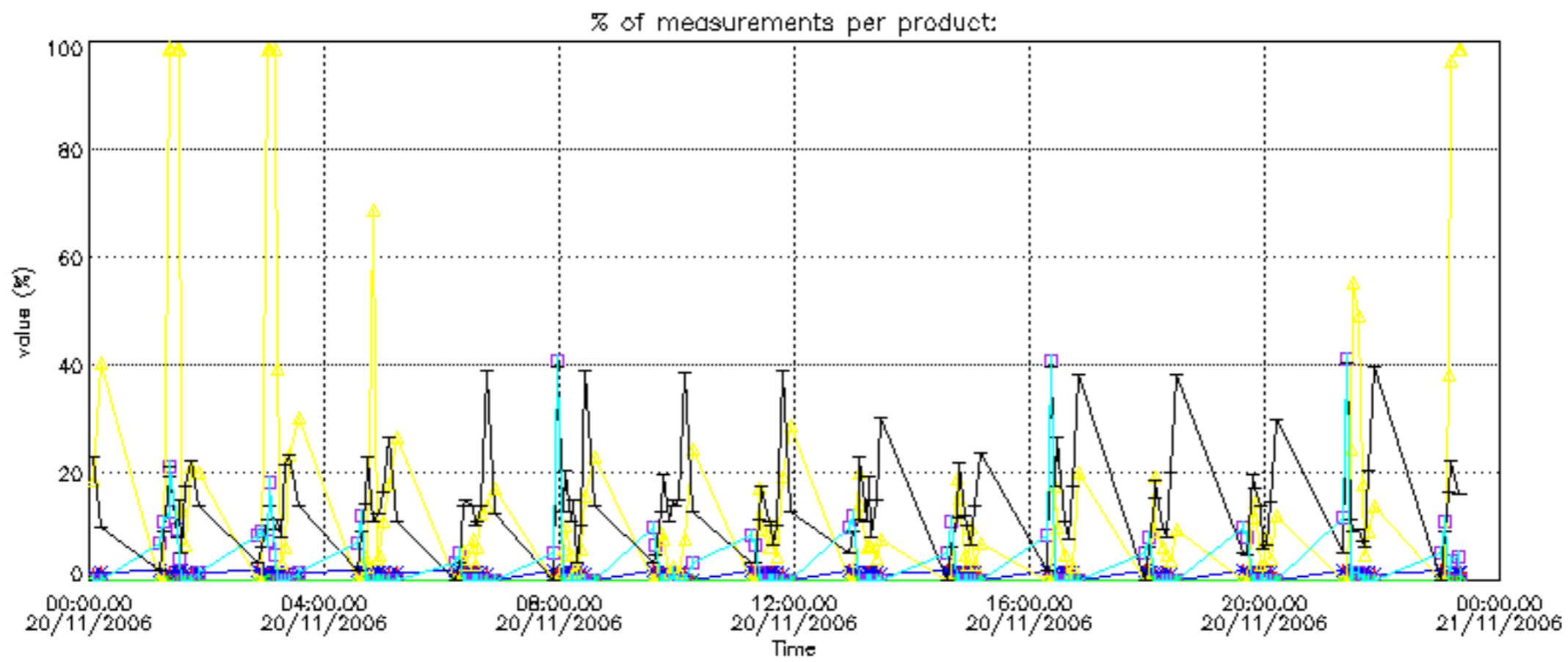


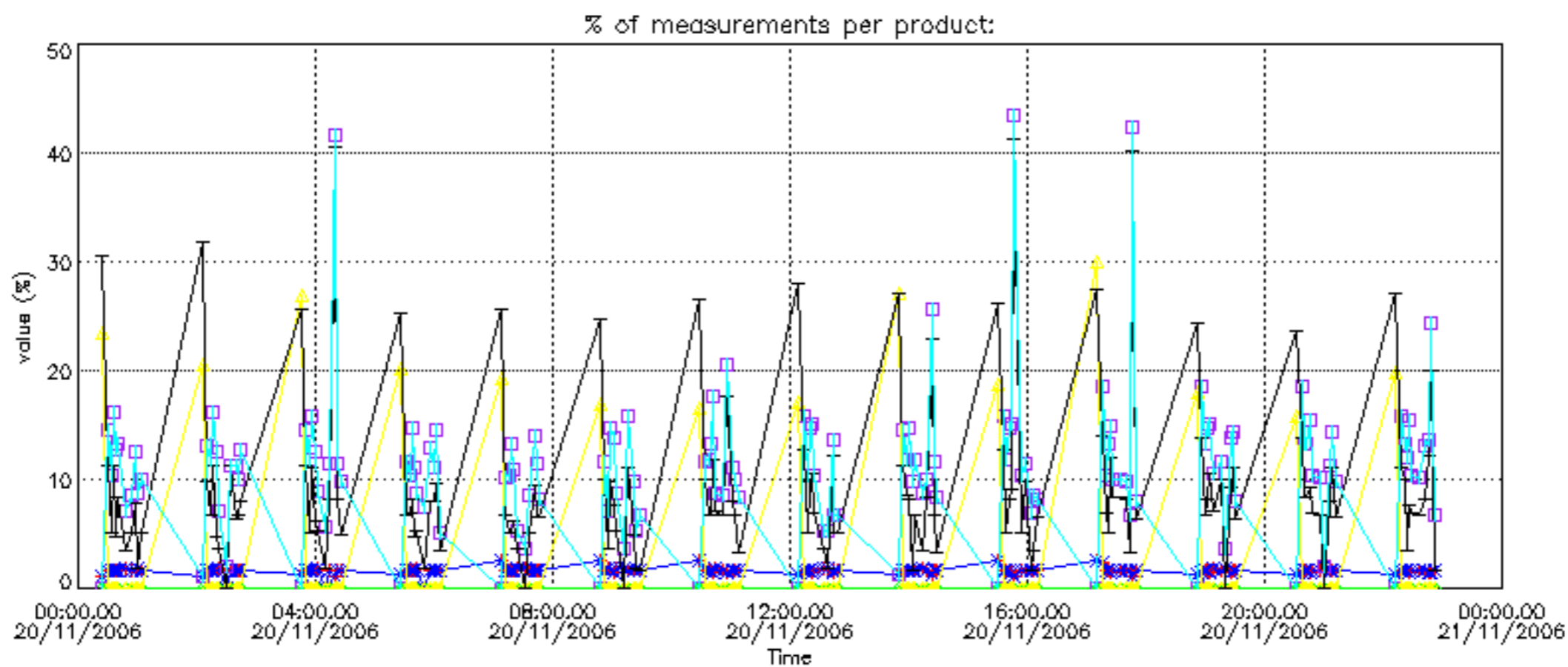
Percentage of flagged data per NO2 profile



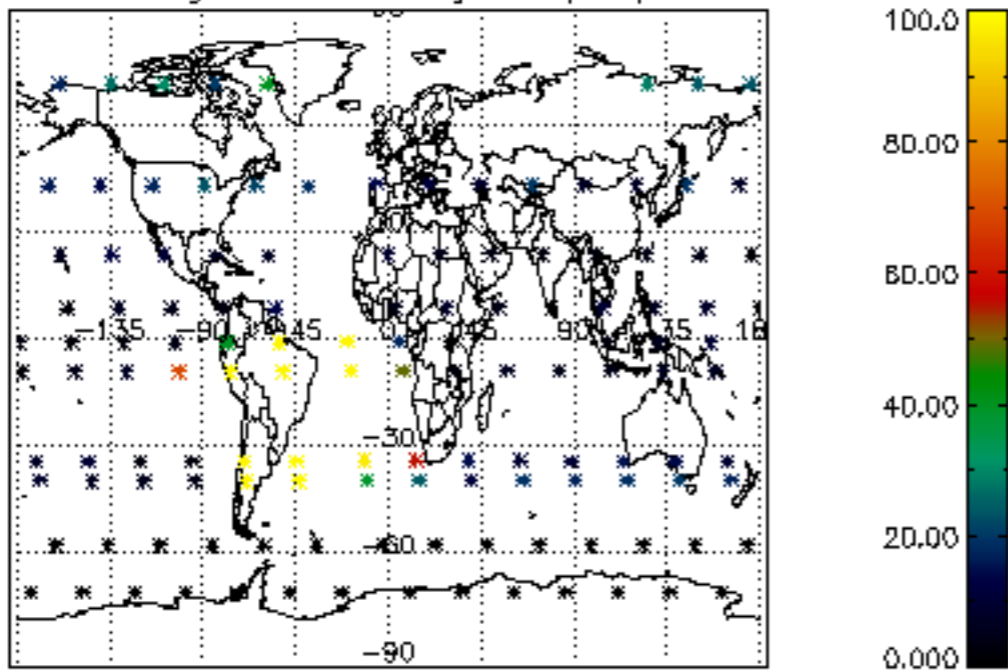
Percentage of flagged data per NO3 profile



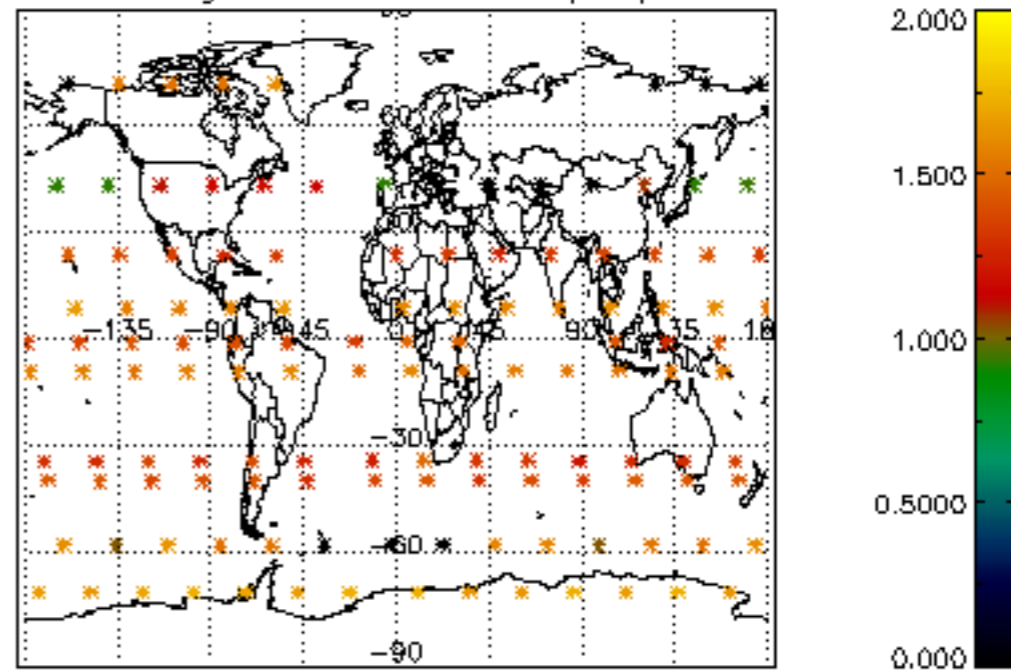




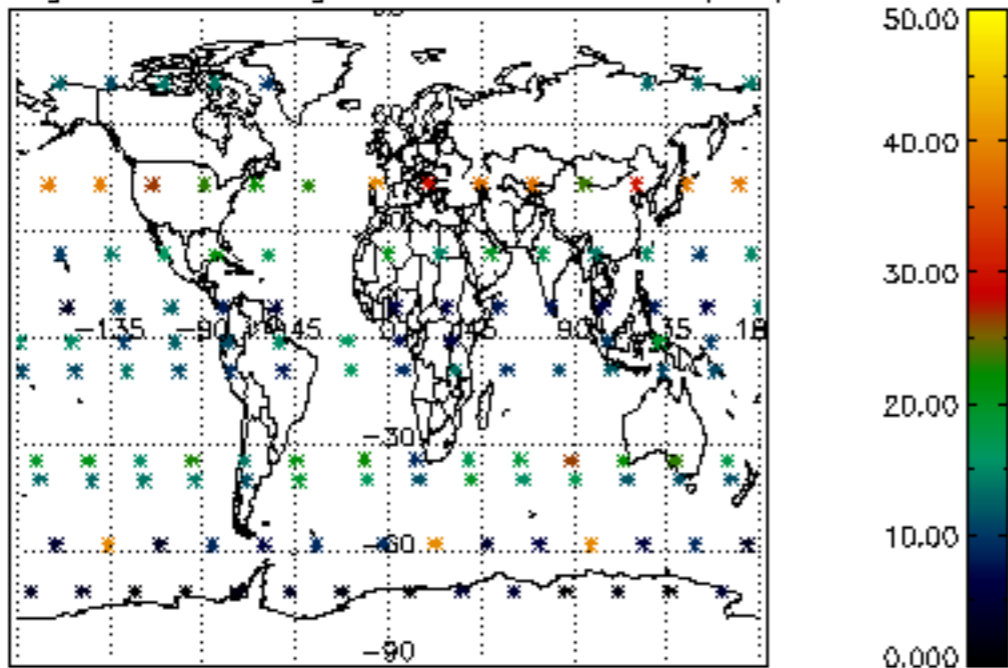
Percentage of cosmic ray hits per profile



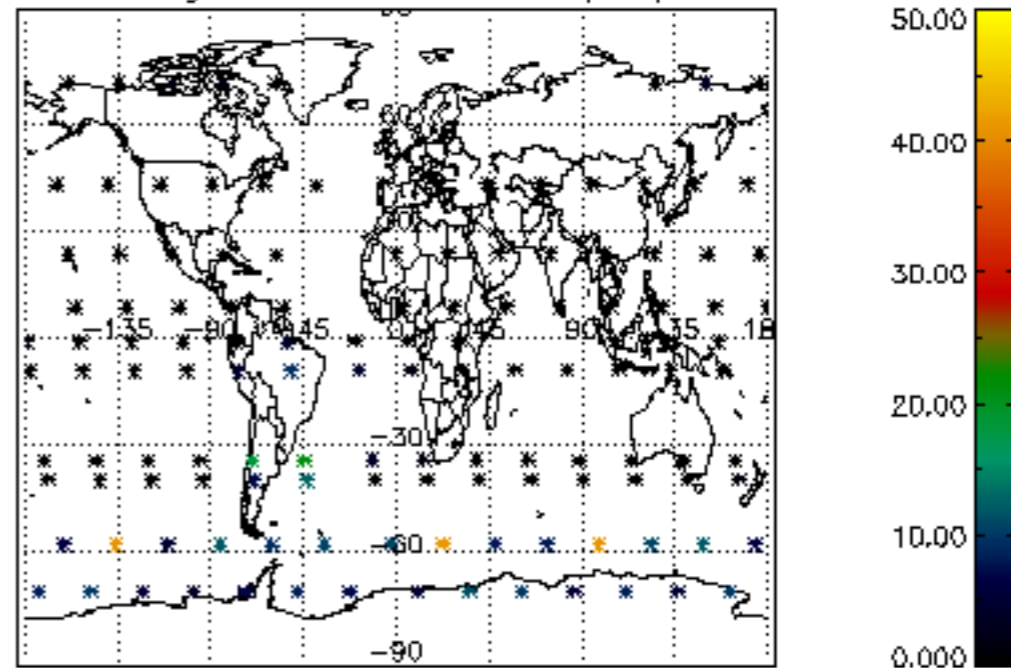
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

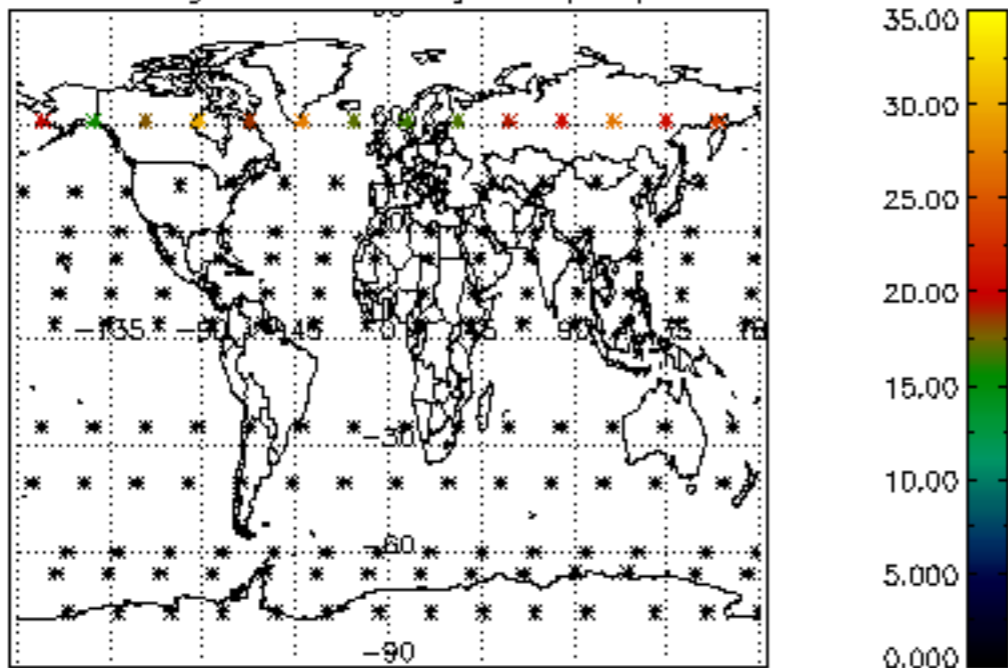


Percentage of saturation errors per profile

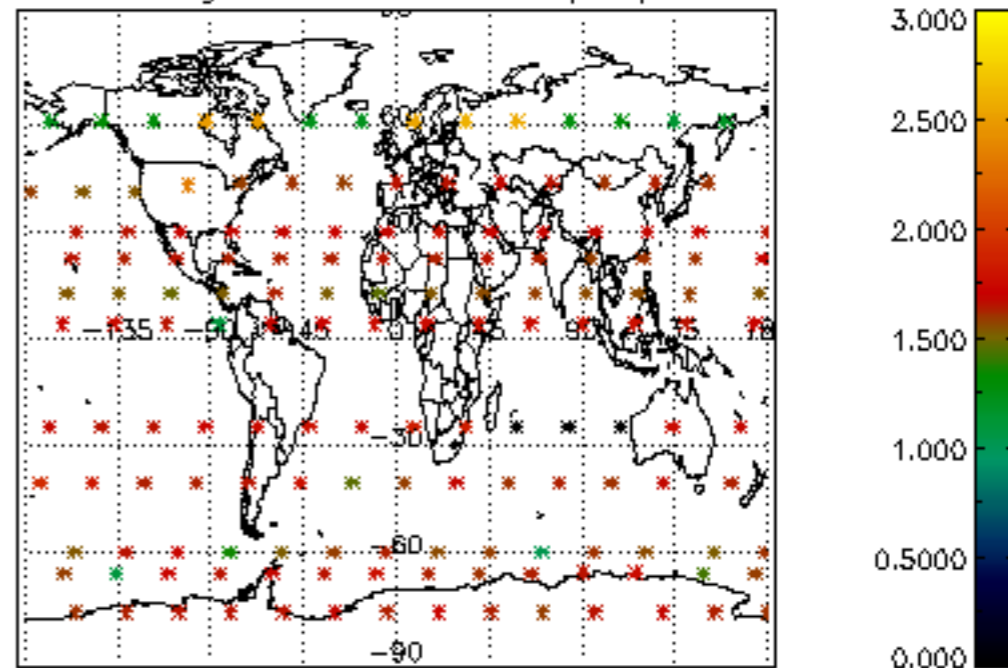




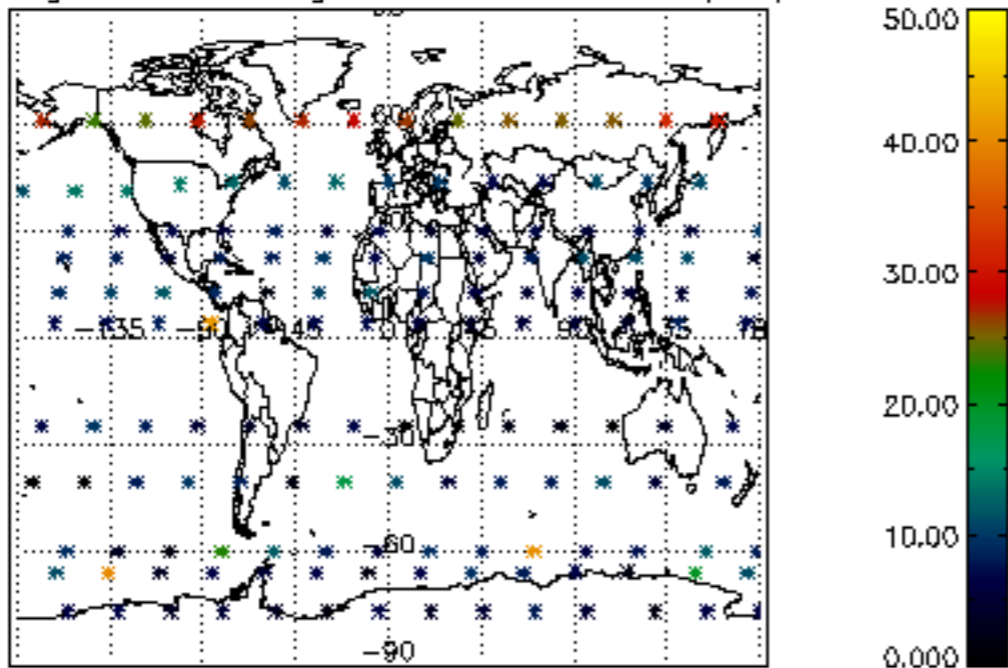
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

