

# GOMOS Level 2 Daily Report

## SUMMARY

### [1. General Info](#)

### [2. Summary of processed GOM\\_NL\\_2P products](#)

### [3. Level 2 Quality information per product](#)

#### [3.1 Plot of level 2 quality information per product \(time dependant\)](#)

#### [3.2 Plot of level 2 quality information per product \(world map\)](#)

### [4. Level 1 Quality information per product \(stored on level 2 products\)](#)

#### [4.1 Plot of level 1 quality information per product \(time dependant\)](#)

##### [4.1.1 Plot of level 1 quality information per product \(time dependant\): ASCENDING](#)

##### [4.1.2 Plot of level 1 quality information per product \(time dependant\): DESCENDING](#)

#### [4.2 Plot of level 1 quality information per product \(world map\)](#)

##### [4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

##### [4.2.2 Plot of level 1 quality information per product \(world map\): DESCENDING](#)

### [5. Ozone profiles based on quality statistics and other trace gas profiles](#)

#### [5.1 Ozone statistics based on quality of products](#)

#### [5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

#### [5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

#### [5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

#### [5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

#### [5.6 Plot NO2 profiles for all STD \(dark without errors\)](#)

#### [5.7 Plot NO3 profiles for all STD \(dark without errors\)](#)

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

### [6. Auxiliary Data Files used for the production reported in section 2](#)





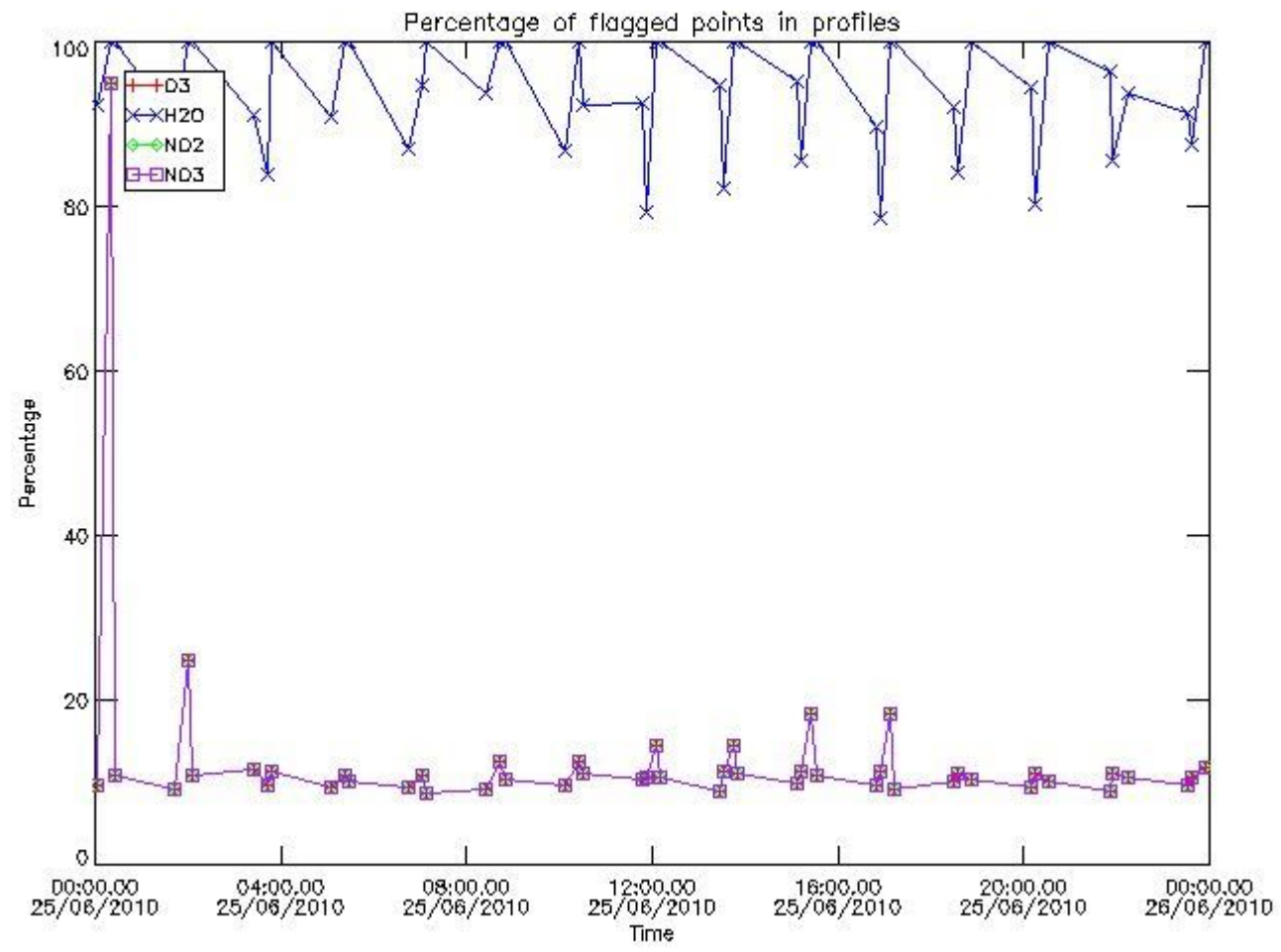






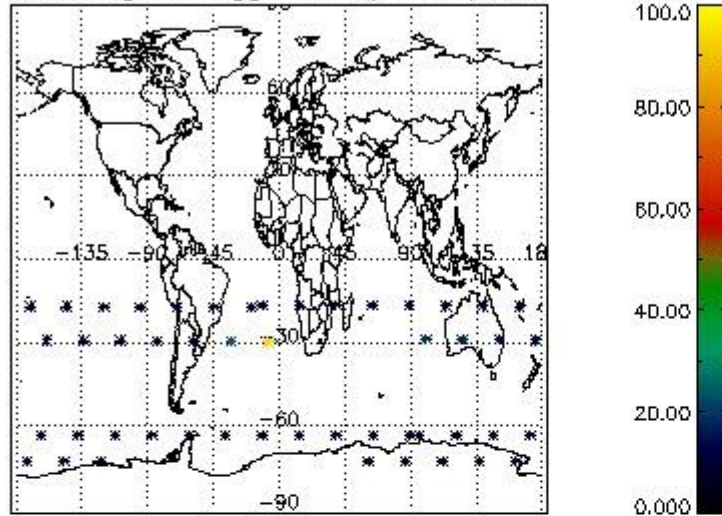
the MPH set to "0") are used.

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

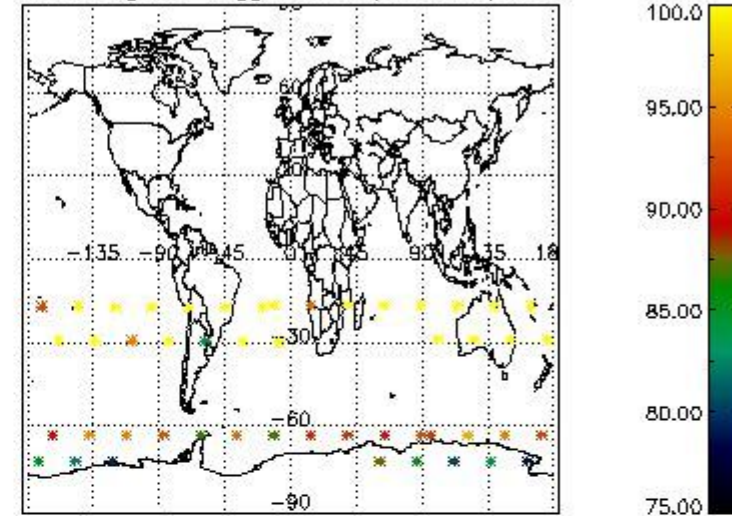


### 3.2 Plot quality information per product (world map)

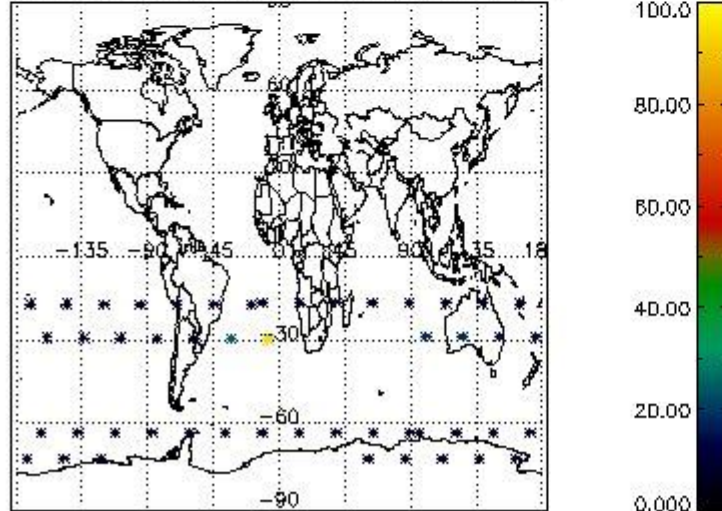
Percentage of flagged data per O3 profile



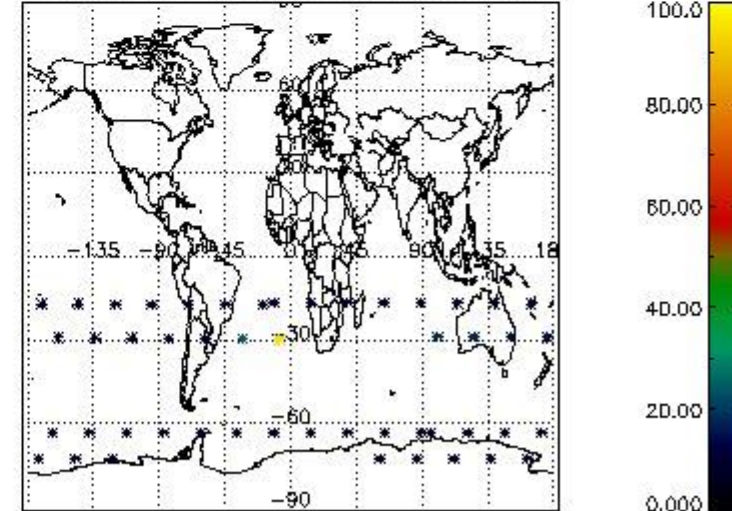
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



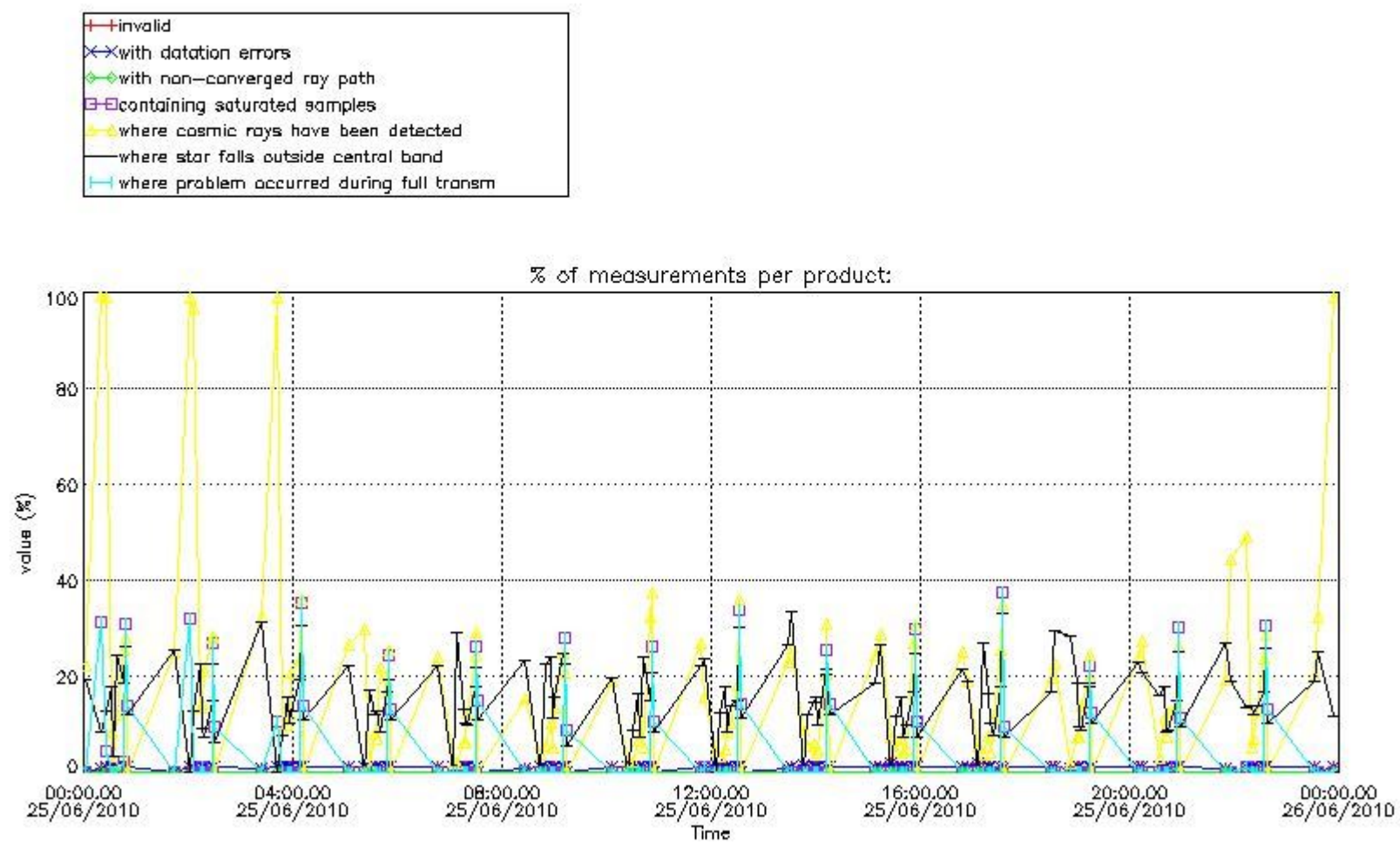
#### 4. Level 1 quality information per product

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.

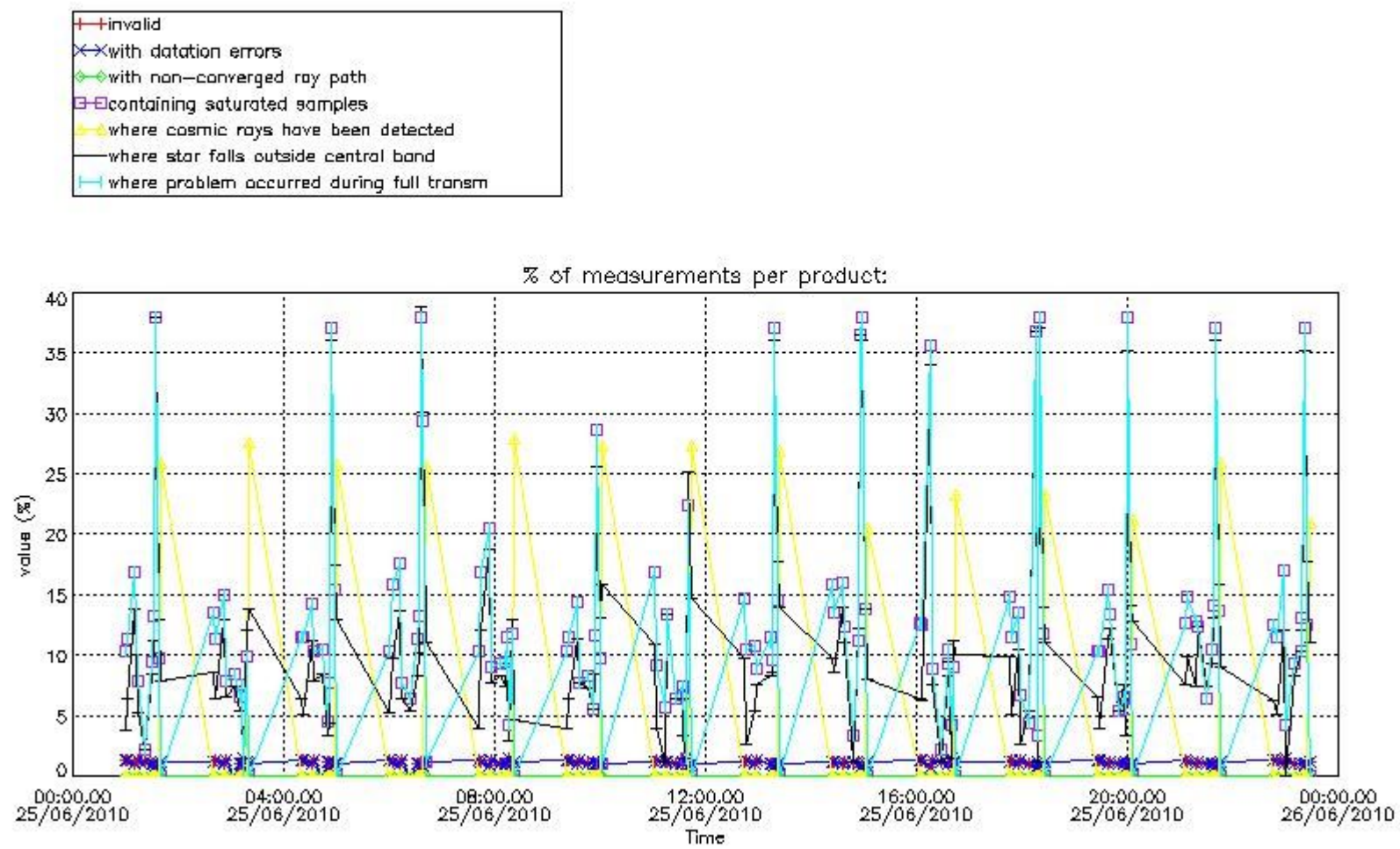
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

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



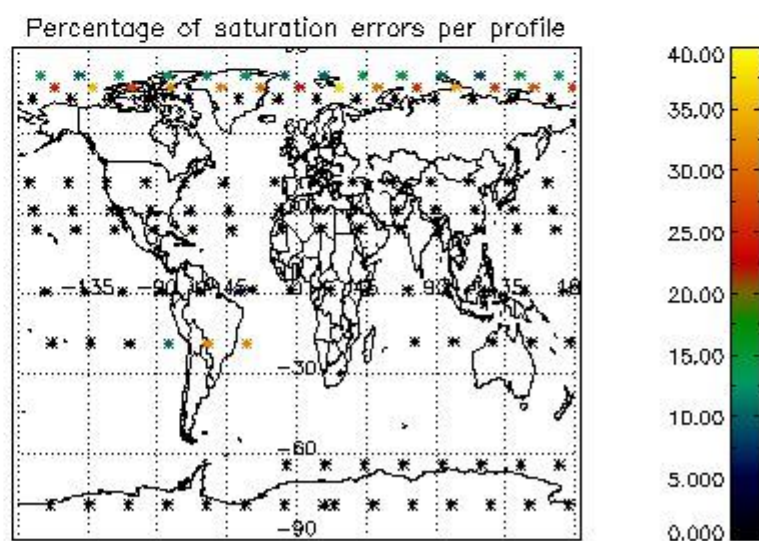
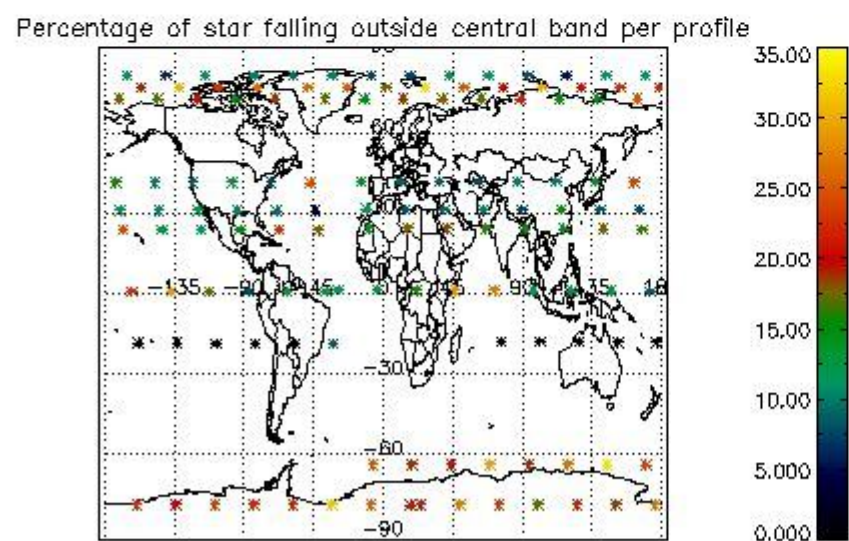
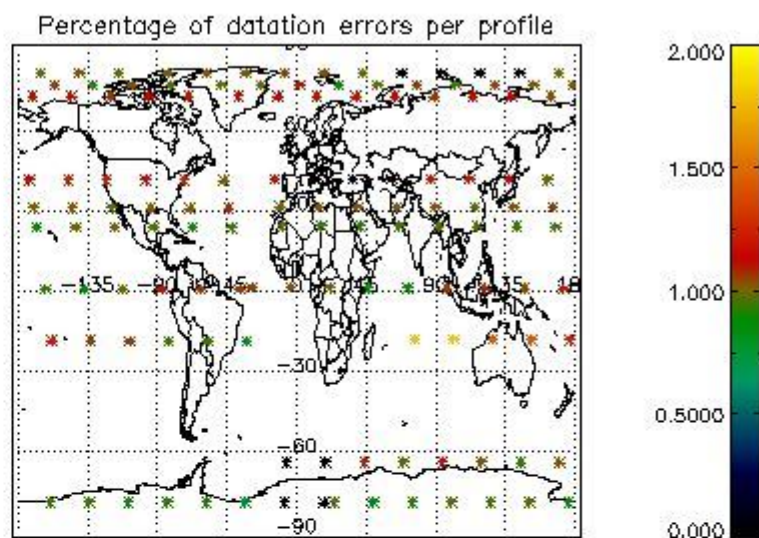
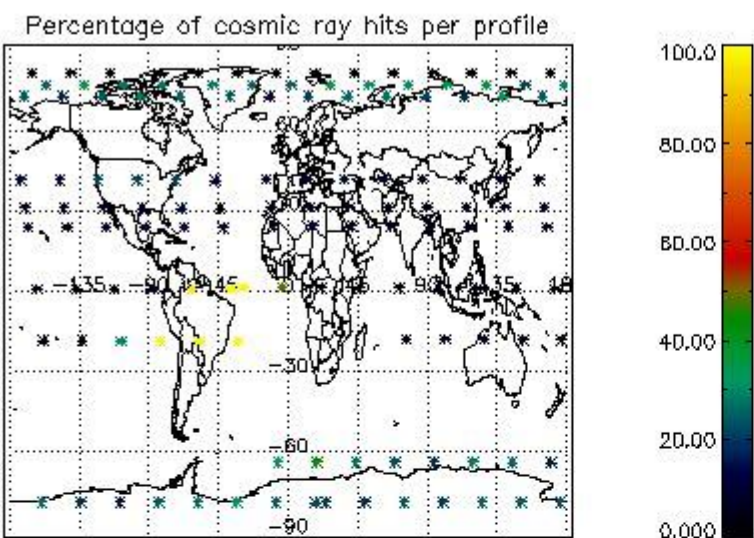


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

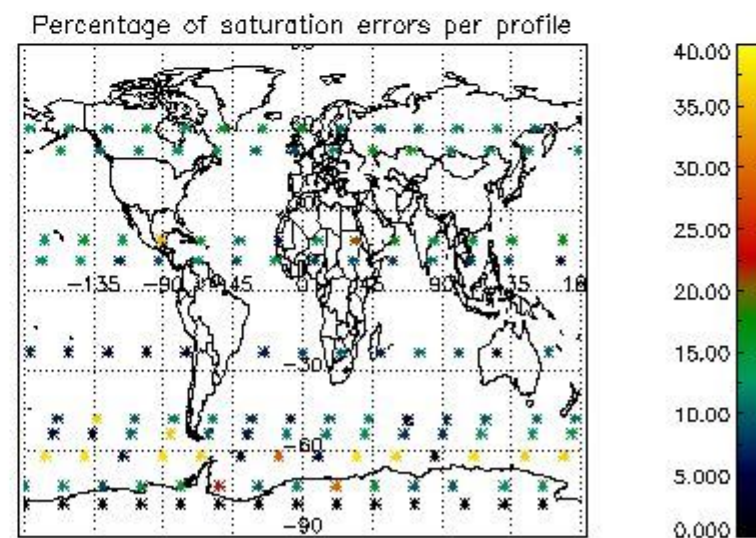
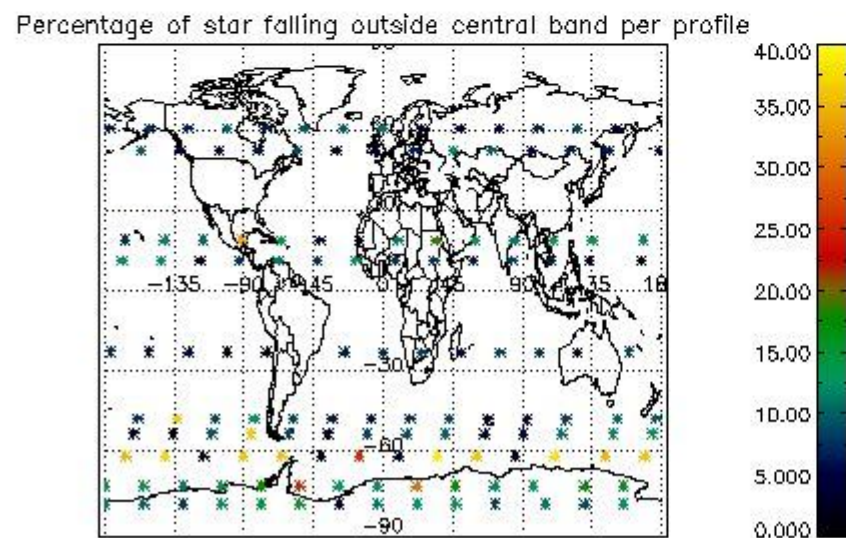
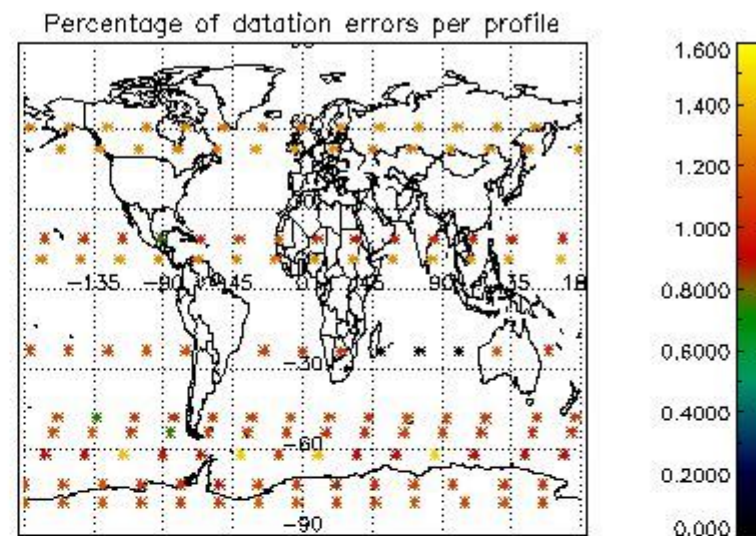
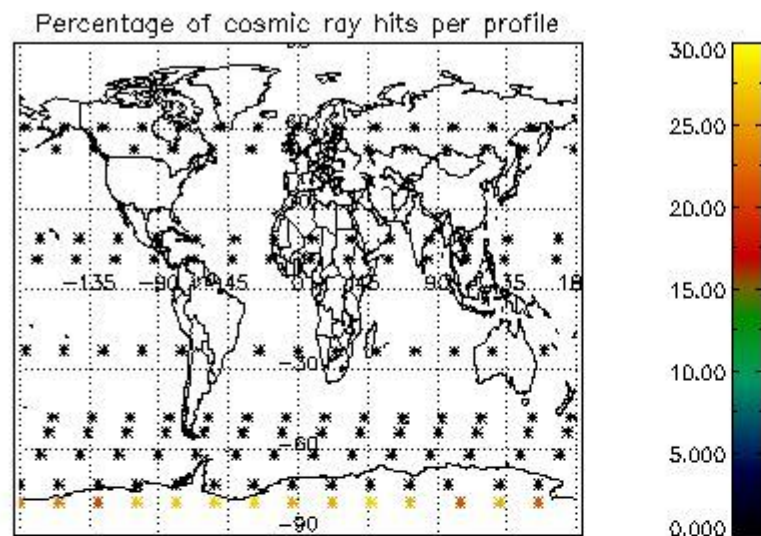


#### 4.2 Plot quality information per product coming from level 1b processing (world map)

##### 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

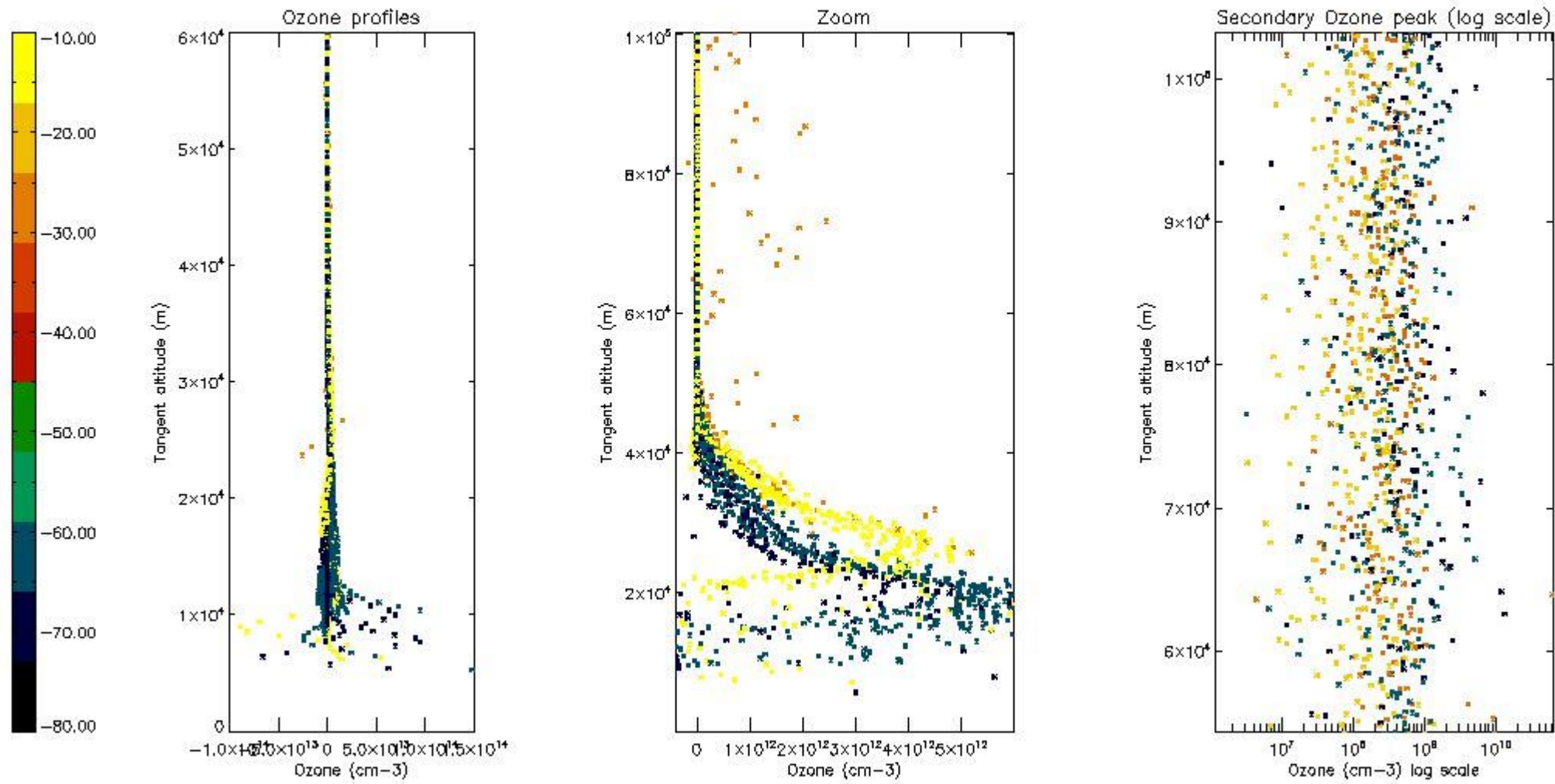
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

| Criteria | % of total production |
|----------|-----------------------|
| All STD  | 19                    |
| STD < 20 | 4                     |

|          |   |
|----------|---|
| STD < 10 | 2 |
| STD < 5  | 0 |

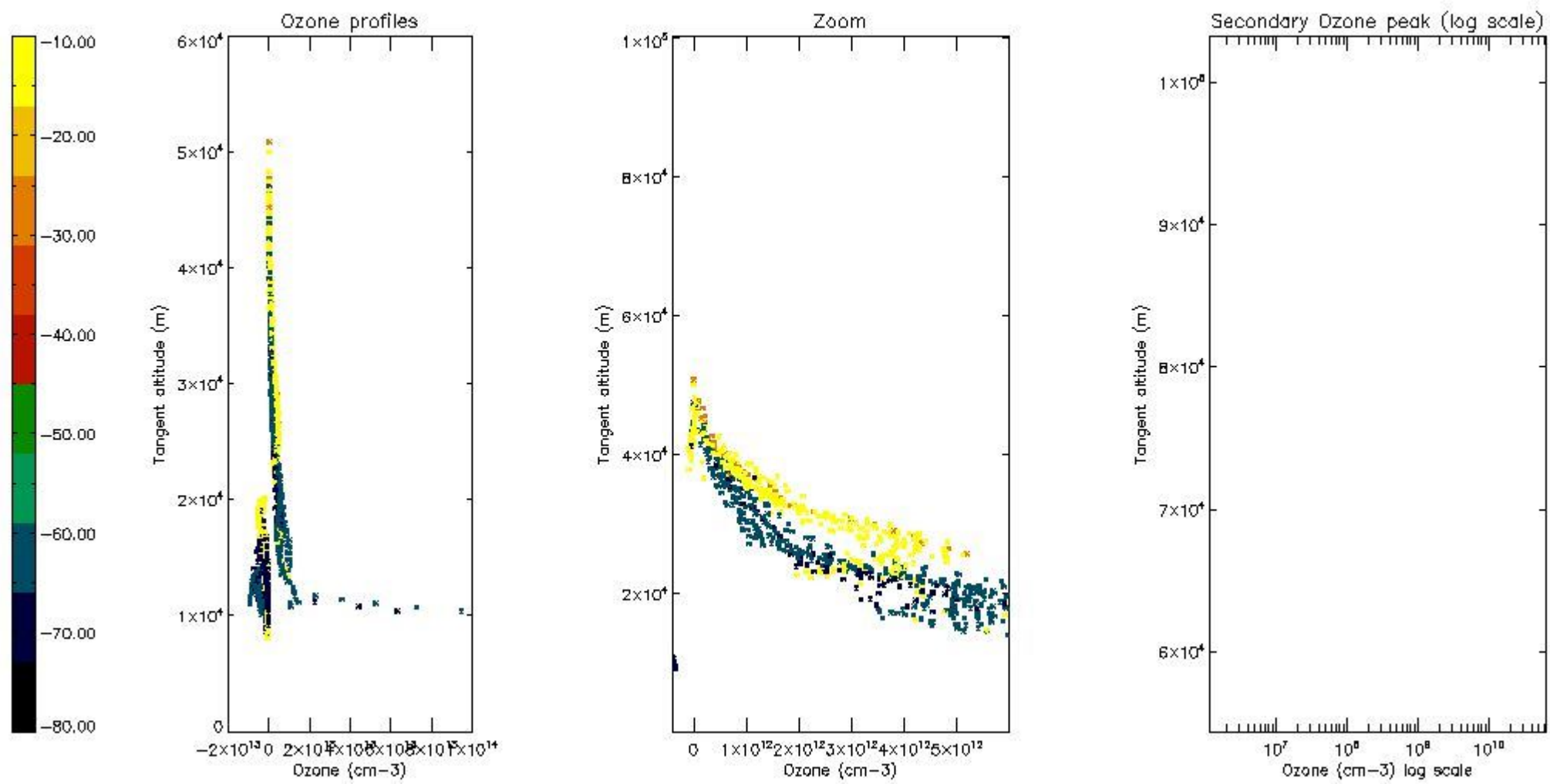
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



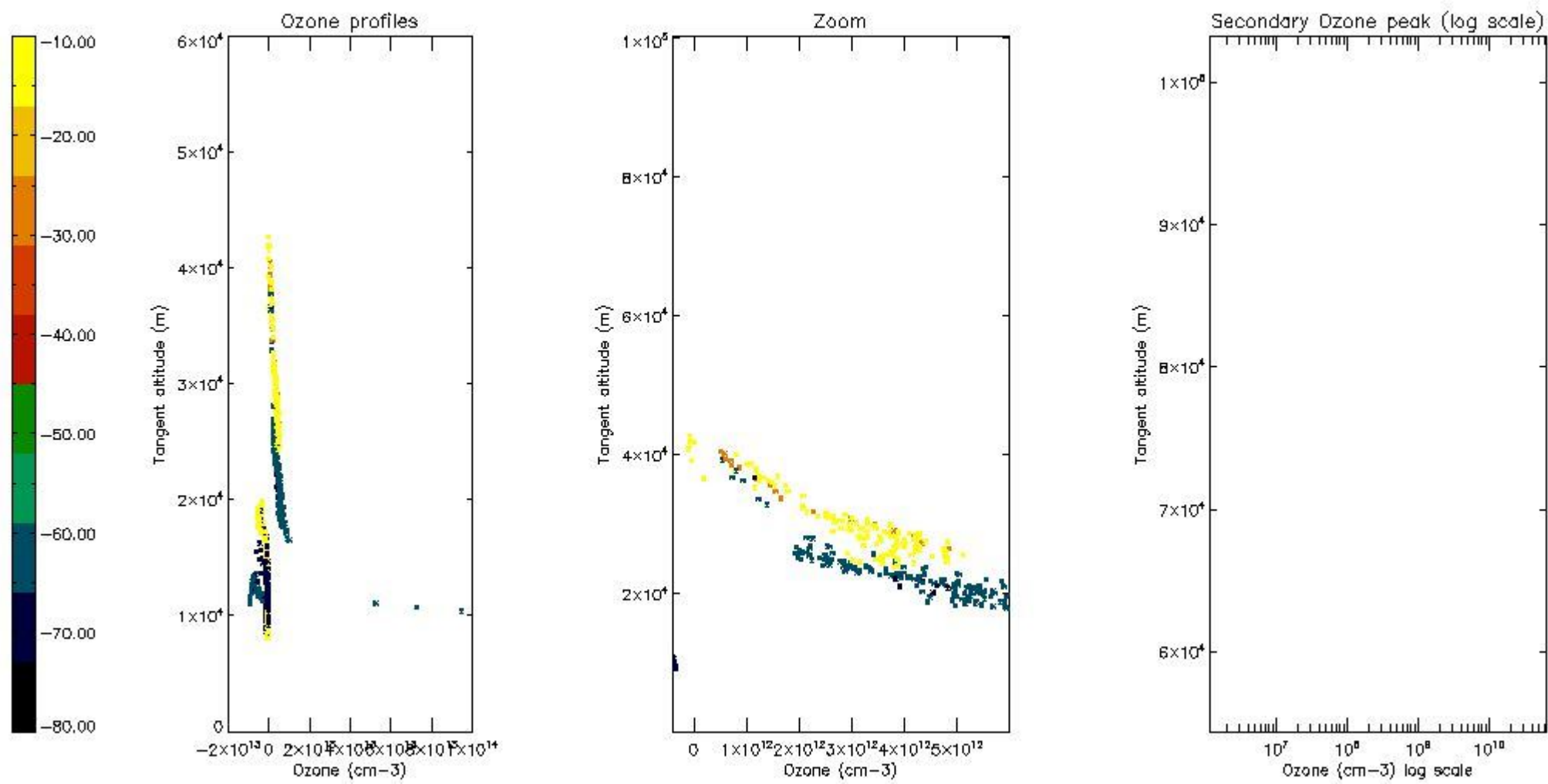
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



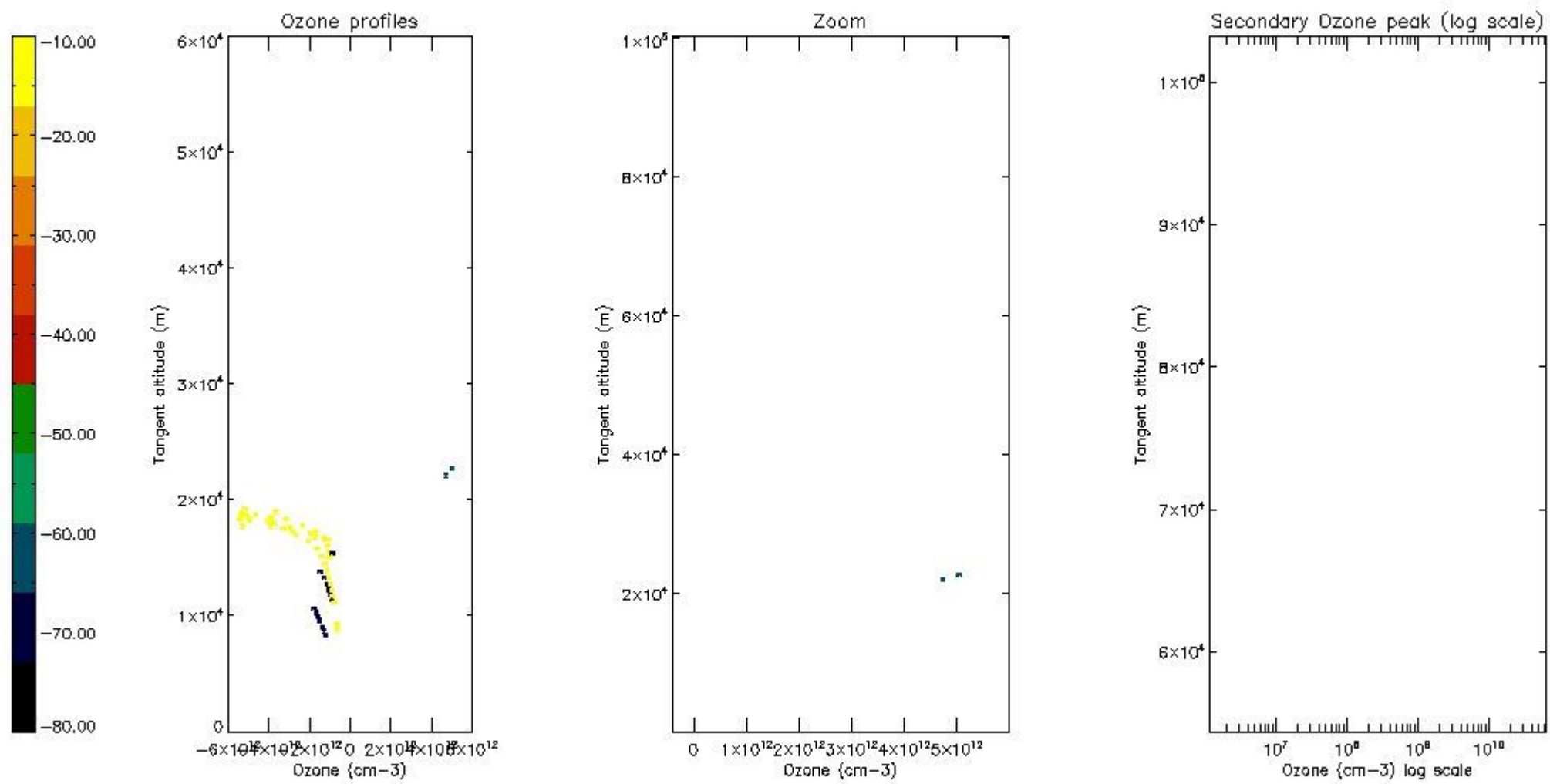
5.4 Plot ozone profiles where  $STD < 10\%$  (dark without errors)

The colorbar represents the latitude.



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

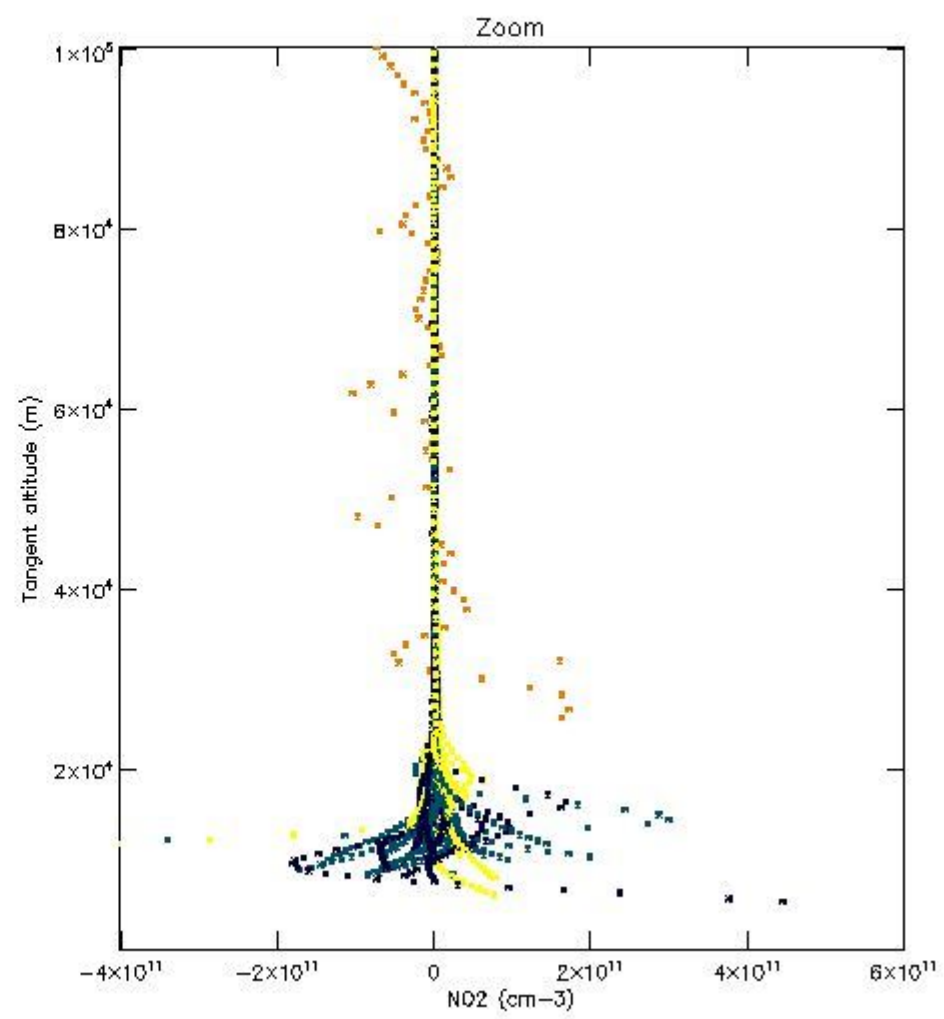
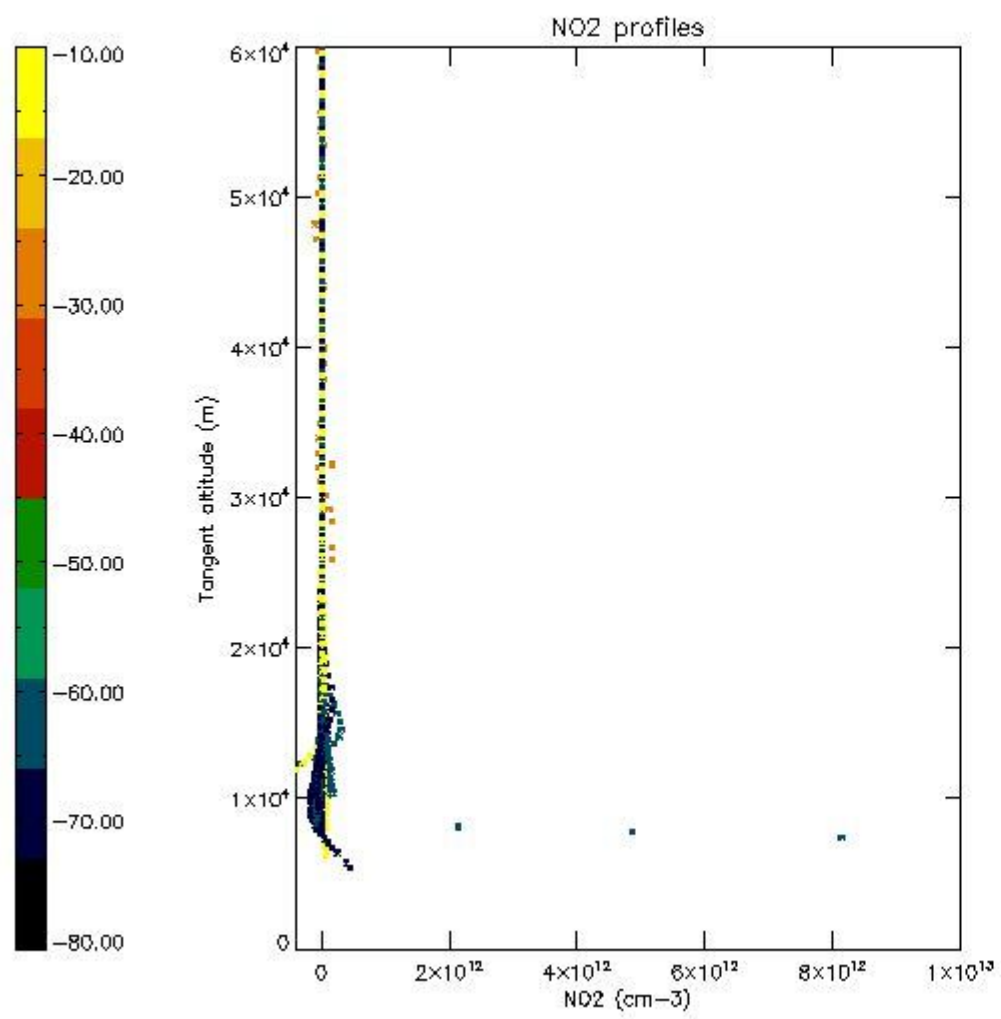
The colorbar represents the latitude.



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

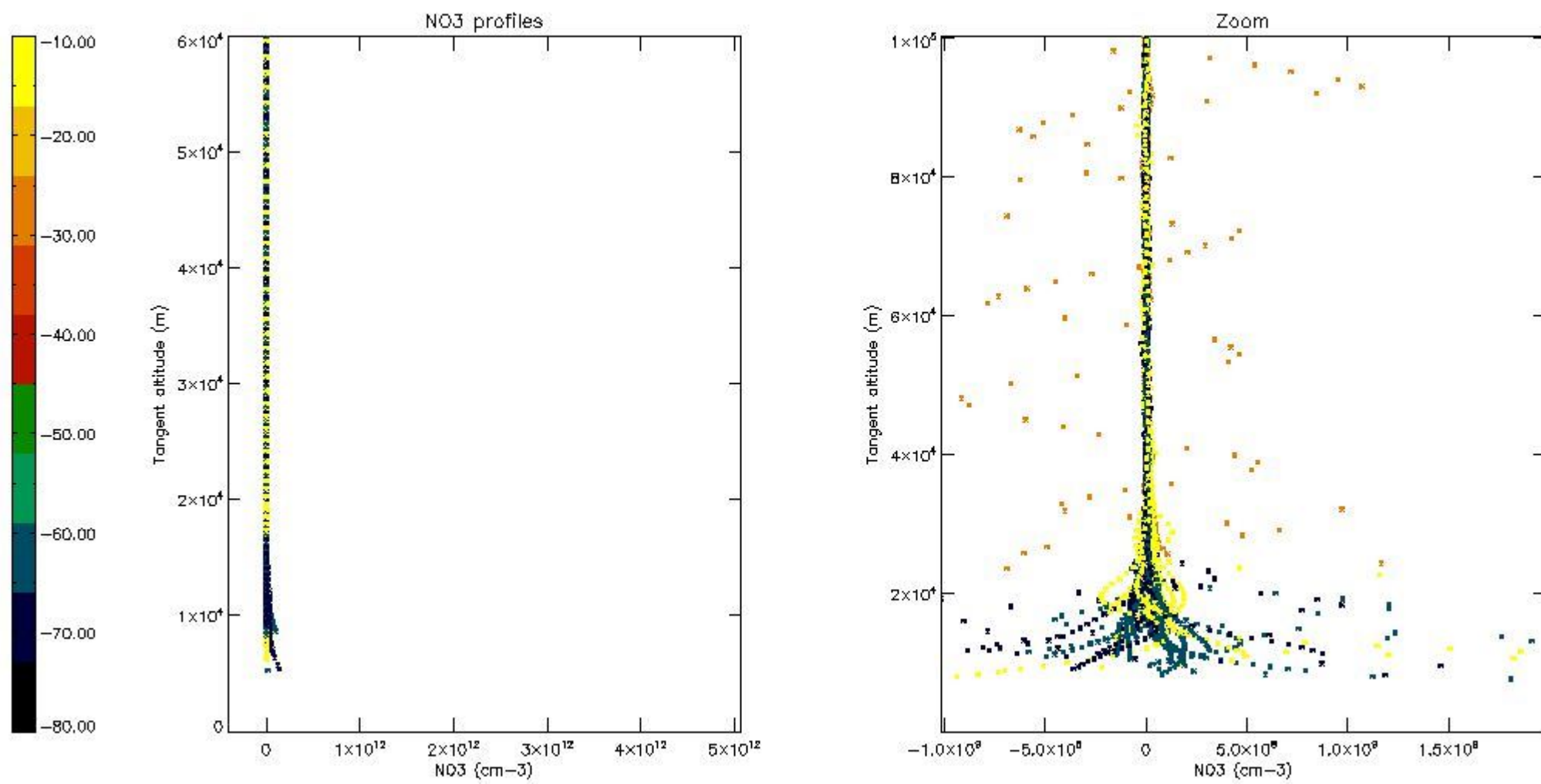
The colorbar represents the latitude.





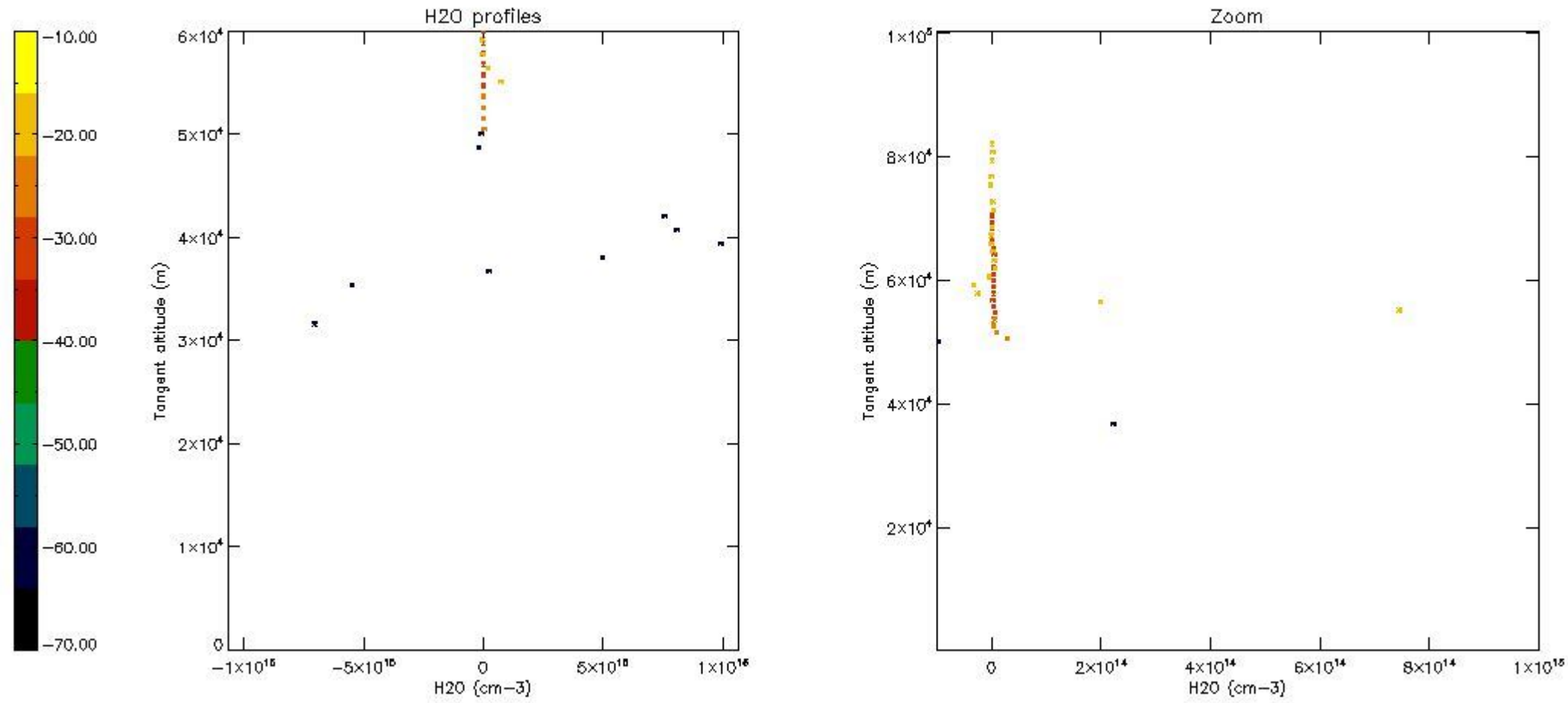
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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                  | 25-JUN-2010 00:02:50    |
| LEVEL-2_PROC_CONFIG       | GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000 | 1                  | 25-JUN-2010 00:02:50    |
| CROSS_SECTIONS_FILE       | GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000 | 1                  | 25-JUN-2010 00:02:50    |

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### [6. Auxiliary Data Files used for the production reported in section 2](#)

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 | 29APR2013 12:20:47              |
| Data source version       | GOMOS/6.01                      |
| Start time of products    | 25-06-2010 (25JUN2010 00:00:00) |
| Stop time of products     | 26-06-2010 (26JUN2010 00:00:00) |
| Store outputs in DB       | Yes                             |
| Nb of level 2 prods       | 272                             |
| Nb of prods with errors   | 0                               |

## 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__2PRFIN20100625_000250_000000522090_00345_43485_6417.N1 | 25-JUN-2010 00:02:50 | Dark               | 52.000   | 50      | 13Alp Ari | 2.0070   | 4250.0    | 104     | 43485 | No          |
| 2  | GOM_NL__2PRFIN20100625_002038_000000592090_00345_43485_6418.N1 | 25-JUN-2010 00:20:38 | Dark               | 59.000   | 52      | 16Bet Cet | 2.0370   | 4500.0    | 118     | 43485 | No          |
| 3  | GOM_NL__2PRFIN20100625_002604_000000482090_00346_43486_6400.N1 | 25-JUN-2010 00:26:04 | Dark               | 47.500   | 84      | Alp Phe   | 2.3970   | 4500.0    | 95      | 43486 | No          |
| 4  | GOM_NL__2PRFIN20100625_003233_000000532090_00346_43486_6401.N1 | 25-JUN-2010 00:32:33 | Straylight         | 53.000   | 63      | Bet Gru   | 2.1500   | 2800.0    | 106     | 43486 | No          |
| 5  | GOM_NL__2PRFIN20100625_003435_000000462090_00346_43486_6402.N1 | 25-JUN-2010 00:34:35 | Straylight         | 46.000   | 31      | Alp Gru   | 1.7340   | 15200.    | 92      | 43486 | No          |
| 6  | GOM_NL__2PRFIN20100625_003734_000000502090_00346_43486_6403.N1 | 25-JUN-2010 00:37:34 | Straylight         | 49.500   | 45      | Alp Pav   | 1.9400   | 26000.    | 99      | 43486 | No          |
| 7  | GOM_NL__2PRFIN20100625_004643_000000462090_00346_43486_6404.N1 | 25-JUN-2010 00:46:43 | Twilight_and_stray | 45.500   | 38      | 20Eps Sgr | 1.8360   | 11000.    | 91      | 43486 | No          |
| 8  | GOM_NL__2PRFIN20100625_004808_000000522090_00346_43486_6405.N1 | 25-JUN-2010 00:48:08 | Bright             | 51.500   | 116     | 19Del Sgr | 2.7000   | 4100.0    | 103     | 43486 | No          |
| 9  | GOM_NL__2PRFIN20100625_005017_000000512090_00346_43486_6406.N1 | 25-JUN-2010 00:50:17 | Bright             | 50.500   | 155     | 41Pi Sgr  | 2.9000   | 6600.0    | 101     | 43486 | No          |
| 10 | GOM_NL__2PRFIN20100625_005901_000000392090_00346_43486_6407.N1 | 25-JUN-2010 00:59:01 | Bright             | 39.000   | 126     | 60Bet Oph | 2.7700   | 4250.0    | 78      | 43486 | No          |
| 11 | GOM_NL__2PRFIN20100625_010124_000000402090_00346_43486_6408.N1 | 25-JUN-2010 01:01:24 | Bright             | 39.500   | 59      | 55Alp Oph | 2.0800   | 8900.0    | 79      | 43486 | No          |
| 12 | GOM_NL__2PRFIN20100625_011056_000000512090_00346_43486_6409.N1 | 25-JUN-2010 01:10:56 | Bright             | 50.500   | 5       | 3Alp Lyr  | 0.033000 | 11000.    | 101     | 43486 | No          |
| 13 | GOM_NL__2PRFIN20100625_011301_000000382090_00346_43486_6410.N1 | 25-JUN-2010 01:13:01 | Bright             | 38.000   | 130     | 23Bet Dra | 2.7990   | 5800.0    | 76      | 43486 | No          |
| 14 | GOM_NL__2PRFIN20100625_012239_000000452090_00346_43486_6411.N1 | 25-JUN-2010 01:22:39 | Bright             | 44.500   | 89      | 5Alp Cep  | 2.4510   | 8000.0    | 89      | 43486 | No          |
| 15 | GOM_NL__2PRFIN20100625_012942_000000482090_00346_43486_6412.N1 | 25-JUN-2010 01:29:42 | Bright             | 47.500   | 74      | 11Bet Cas | 2.2680   | 6600.0    | 95      | 43486 | No          |
| 16 | GOM_NL__2PRFIN20100625_013116_000000492090_00346_43486_6413.N1 | 25-JUN-2010 01:31:16 | Bright             | 49.000   | 68      | 18Alp Cas | 2.2250   | 4500.0    | 98      | 43486 | No          |
| 17 | GOM_NL__2PRFIN20100625_013339_000000542090_00346_43486_6414.N1 | 25-JUN-2010 01:33:39 | Bright             | 54.000   | 160     | 23Gam Per | 2.9300   | 4700.0    | 108     | 43486 | No          |
| 18 | GOM_NL__2PRFIN20100625_013704_000000472090_00346_43486_6415.N1 | 25-JUN-2010 01:37:04 | Bright             | 46.500   | 73      | 57Gam1And | 2.2600   | 13100.    | 93      | 43486 | No          |
| 19 | GOM_NL__2PRFIN20100625_013931_000000452090_00346_43486_6416.N1 | 25-JUN-2010 01:39:31 | Twilight_and_stray | 44.500   | 173     | 4Bet Tri  | 3.0040   | 8900.0    | 89      | 43486 | No          |
| 20 | GOM_NL__2PRFIN20100625_014327_000000552090_00346_43486_6417.N1 | 25-JUN-2010 01:43:27 | Dark               | 55.000   | 50      | 13Alp Ari | 2.0070   | 4250.0    | 110     | 43486 | No          |
| 21 | GOM_NL__2PRFIN20100625_020115_000000532090_00346_43486_6418.N1 | 25-JUN-2010 02:01:15 | Dark               | 53.000   | 52      | 16Bet Cet | 2.0370   | 4500.0    | 106     | 43486 | No          |
| 22 | GOM_NL__2PRFIN20100625_020641_000000472090_00347_43487_6400.N1 | 25-JUN-2010 02:06:41 | Dark               | 47.000   | 84      | Alp Phe   | 2.3970   | 4500.0    | 94      | 43487 | No          |
| 23 | GOM_NL__2PRFIN20100625_021310_000000562090_00347_43487_6401.N1 | 25-JUN-2010 02:13:10 | Straylight         | 55.500   | 63      | Bet Gru   | 2.1500   | 2800.0    | 111     | 43487 | No          |
| 24 | GOM_NL__2PRFIN20100625_021512_000000492090_00347_43487_6402.N1 | 25-JUN-2010 02:15:12 | Straylight         | 49.000   | 31      | Alp Gru   | 1.7340   | 15200.    | 98      | 43487 | No          |
| 25 | GOM_NL__2PRFIN20100625_021810_000000412090_00347_43487_6403.N1 | 25-JUN-2010 02:18:10 | Straylight         | 40.500   | 45      | Alp Pav   | 1.9400   | 26000.    | 81      | 43487 | No          |
| 26 | GOM_NL__2PRFIN20100625_022719_000000442090_00347_43487_6404.N1 | 25-JUN-2010 02:27:19 | Twilight_and_stray | 44.000   | 38      | 20Eps Sgr | 1.8360   | 11000.    | 88      | 43487 | No          |
| 27 | GOM_NL__2PRFIN20100625_022844_000000492090_00347_43487_6405.N1 | 25-JUN-2010 02:28:44 | Bright             | 48.500   | 116     | 19Del Sgr | 2.7000   | 4100.0    | 97      | 43487 | No          |
| 28 | GOM_NL__2PRFIN20100625_023053_000000482090_00347_43487_6406.N1 | 25-JUN-2010 02:30:53 | Bright             | 48.000   | 155     | 41Pi Sgr  | 2.9000   | 6600.0    | 96      | 43487 | No          |
| 29 | GOM_NL__2PRFIN20100625_023937_000000412090_00347_43487_6407.N1 | 25-JUN-2010 02:39:37 | Bright             | 40.500   | 126     | 60Bet Oph | 2.7700   | 4250.0    | 81      | 43487 | No          |
| 30 | GOM_NL__2PRFIN20100625_024200_000000402090_00347_43487_6408.N1 | 25-JUN-2010 02:42:00 | Bright             | 39.500   | 59      | 55Alp Oph | 2.0800   | 8900.0    | 79      | 43487 | No          |
| 31 | GOM_NL__2PRFIN20100625_025131_000000502090_00347_43487_6409.N1 | 25-JUN-2010 02:51:31 | Bright             | 50.000   | 5       | 3Alp Lyr  | 0.033000 | 11000.    | 100     | 43487 | No          |
| 32 | GOM_NL__2PRFIN20100625_025337_000000382090_00347_43487_6410.N1 | 25-JUN-2010 02:53:37 | Bright             | 38.000   | 130     | 23Bet Dra | 2.7990   | 5800.0    | 76      | 43487 | No          |
| 33 | GOM_NL__2PRFIN20100625_030314_000000482090_00347_43487_6411.N1 | 25-JUN-2010 03:03:14 | Bright             | 47.500   | 89      | 5Alp Cep  | 2.4510   | 8000.0    | 95      | 43487 | No          |
| 34 | GOM_NL__2PRFIN20100625_031017_000000462090_00347_43487_6412.N1 | 25-JUN-2010 03:10:17 | Bright             | 46.000   | 74      | 11Bet Cas | 2.2680   | 6600.0    | 92      | 43487 | No          |
| 35 | GOM_NL__2PRFIN20100625_031152_000000462090_00347_43487_6413.N1 | 25-JUN-2010 03:11:52 | Bright             | 46.000   | 68      | 18Alp Cas | 2.2250   | 4500.0    | 92      | 43487 | No          |
| 36 | GOM_NL__2PRFIN20100625_031415_000000342090_00347_43487_6414.N1 | 25-JUN-2010 03:14:15 | Bright             | 33.500   | 160     | 23Gam Per | 2.9300   | 4700.0    | 67      | 43487 | No          |
| 37 | GOM_NL__2PRFIN20100625_031740_000000462090_00347_43487_6415.N1 | 25-JUN-2010 03:17:40 | Bright             | 45.500   | 73      | 57Gam1And | 2.2600   | 13100.    | 91      | 43487 | No          |
| 38 | GOM_NL__2PRFIN20100625_032008_000000472090_00347_43487_6416.N1 | 25-JUN-2010 03:20:08 | Twilight_and_stray | 47.000   | 173     | 4Bet Tri  | 3.0040   | 8900.0    | 94      | 43487 | No          |
| 39 | GOM_NL__2PRFIN20100625_032403_000000622090_00347_43487_6417.N1 | 25-JUN-2010 03:24:03 | Dark               | 62.000   | 50      | 13Alp Ari | 2.0070   | 4250.0    | 124     | 43487 | No          |
| 40 | GOM_NL__2PRFIN20100625_034153_000000532090_00347_43487_6418.N1 | 25-JUN-2010 03:41:53 | Dark               | 53.000   | 52      | 16Bet Cet | 2.0370   | 4500.0    | 106     | 43487 | No          |
| 41 | GOM_NL__2PRFIN20100625_034718_000000452090_00348_43488_6400.N1 | 25-JUN-2010 03:47:18 | Dark               | 45.000   | 84      | Alp Phe   | 2.3970   | 4500.0    | 90      | 43488 | No          |
| 42 | GOM_NL__2PRFIN20100625_035347_000000522090_00348_43488_6401.N1 | 25-JUN-2010 03:53:47 | Straylight         | 51.500   | 63      | Bet Gru   | 2.1500   | 2800.0    | 103     | 43488 | No          |





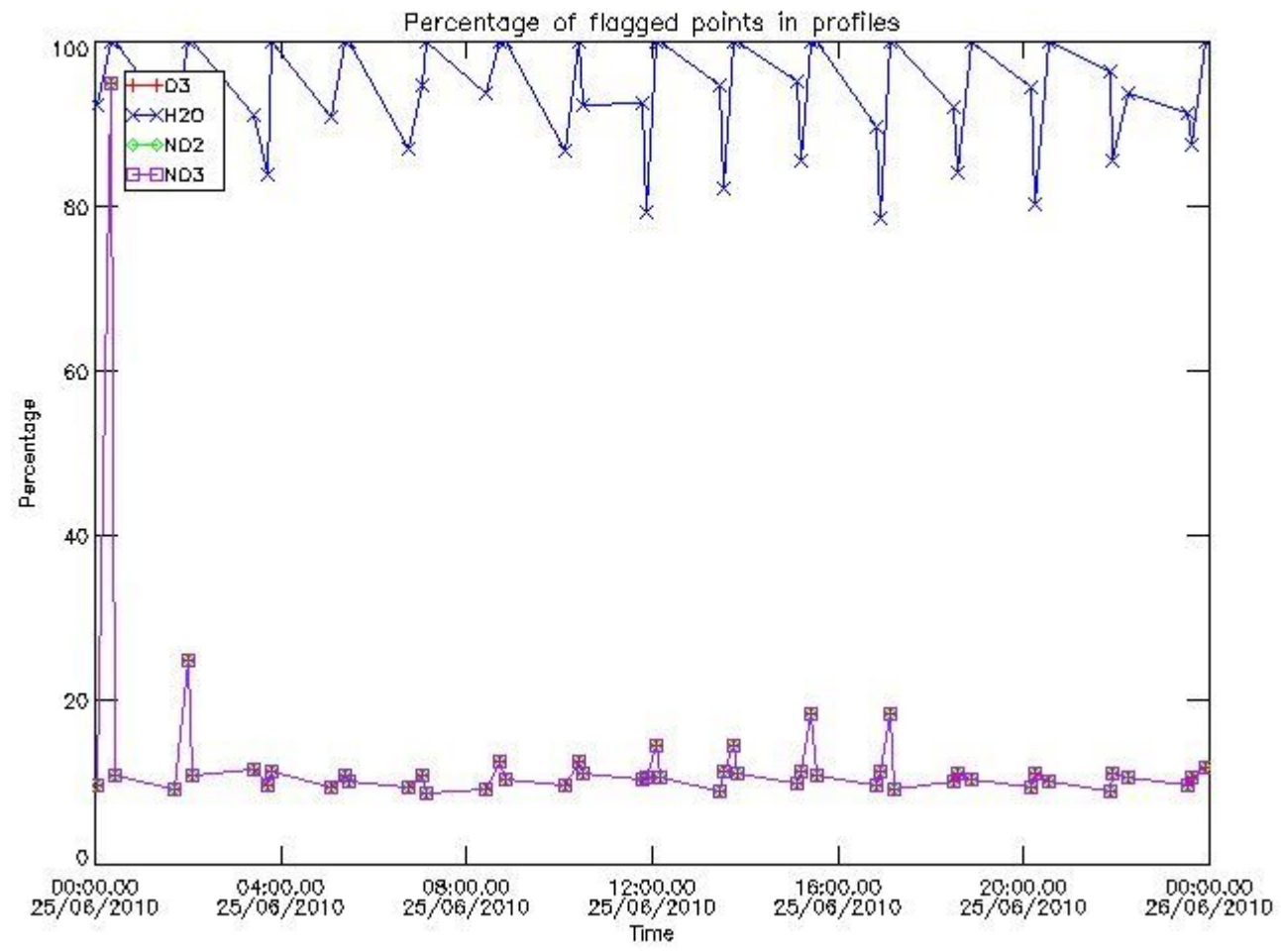






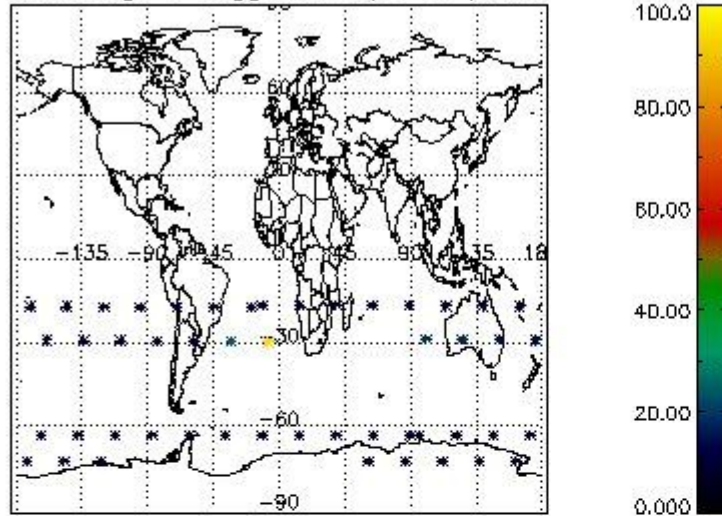
the MPH set to "0") are used.

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

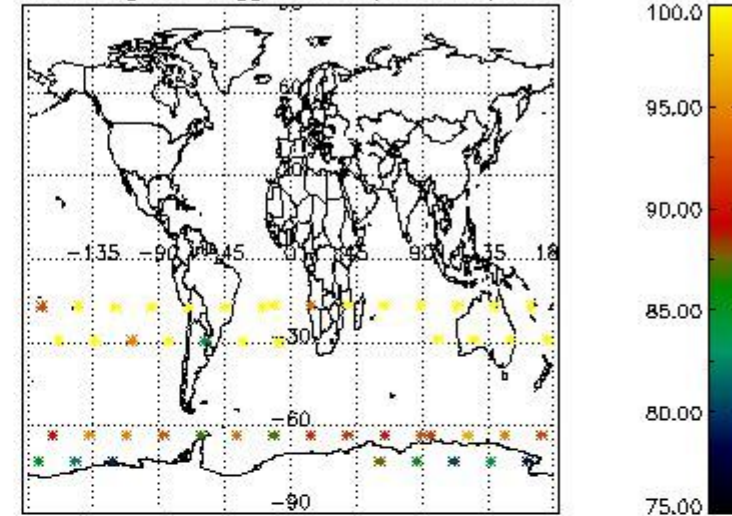


### 3.2 Plot quality information per product (world map)

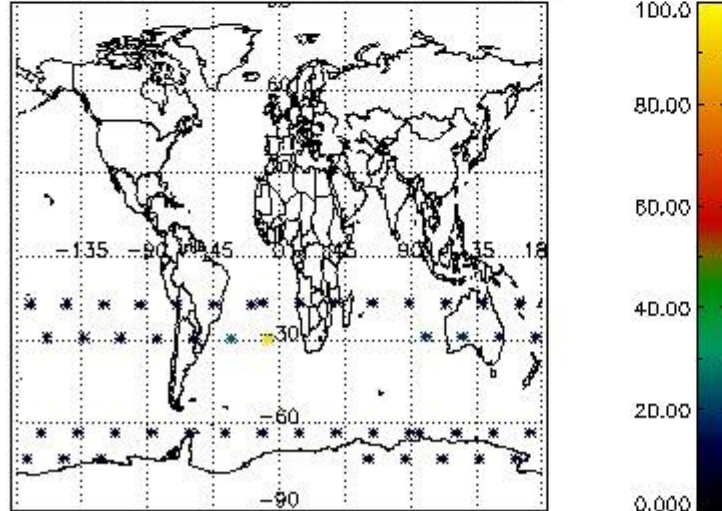
Percentage of flagged data per O3 profile



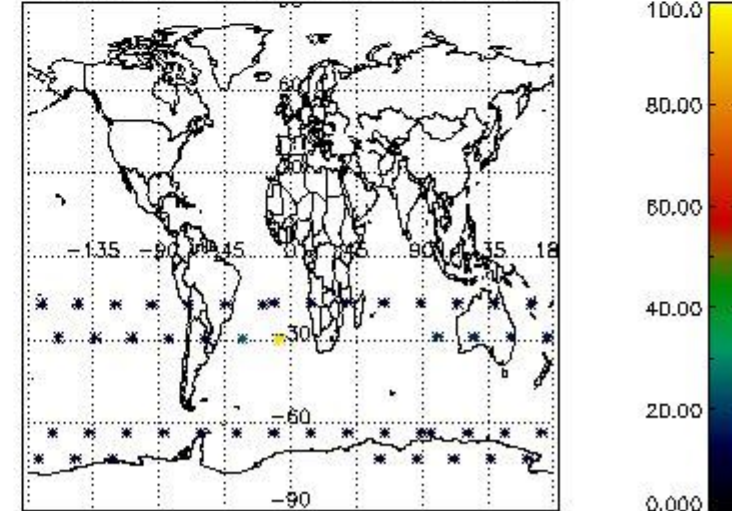
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

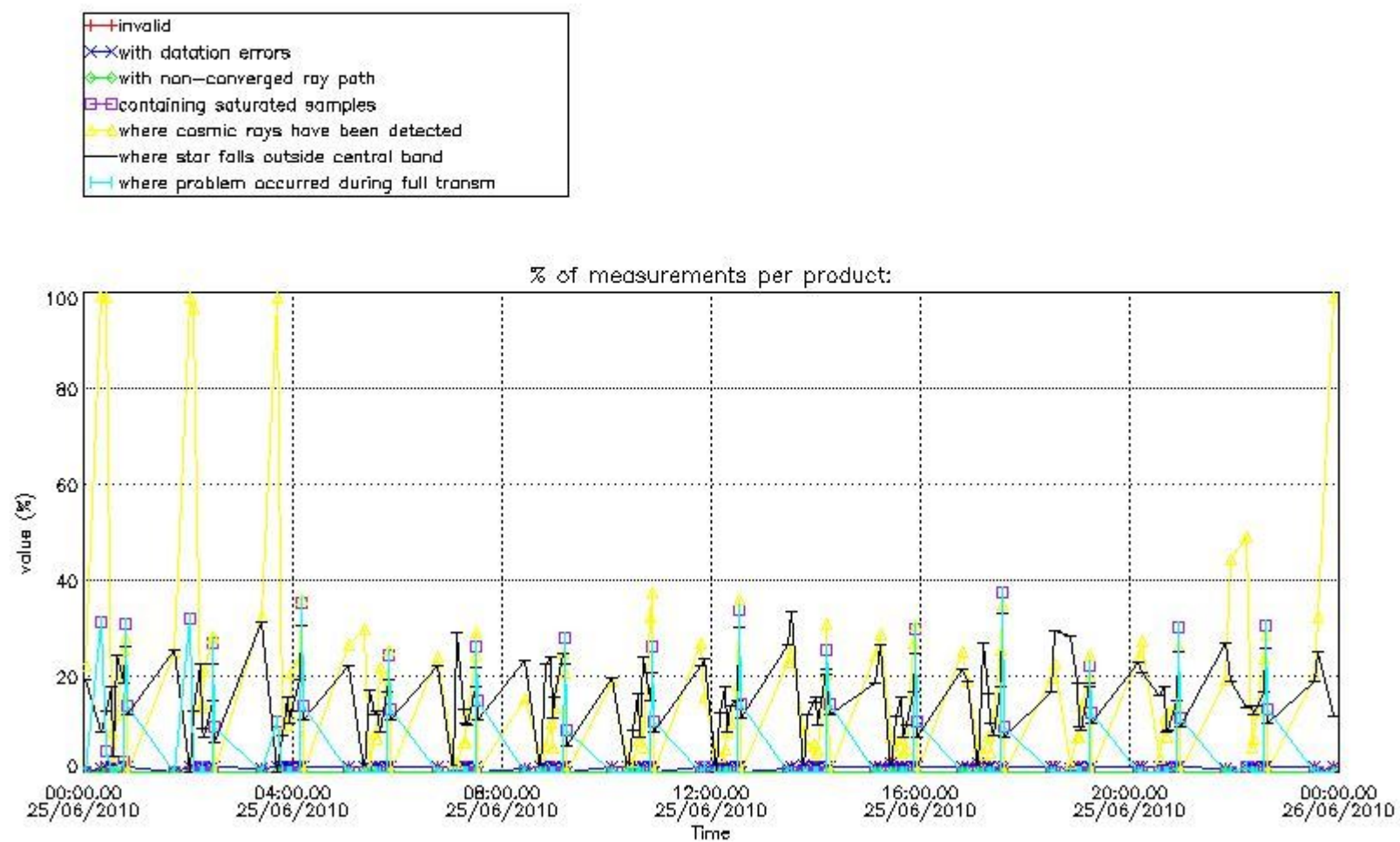


#### 4. Level 1 quality information per product

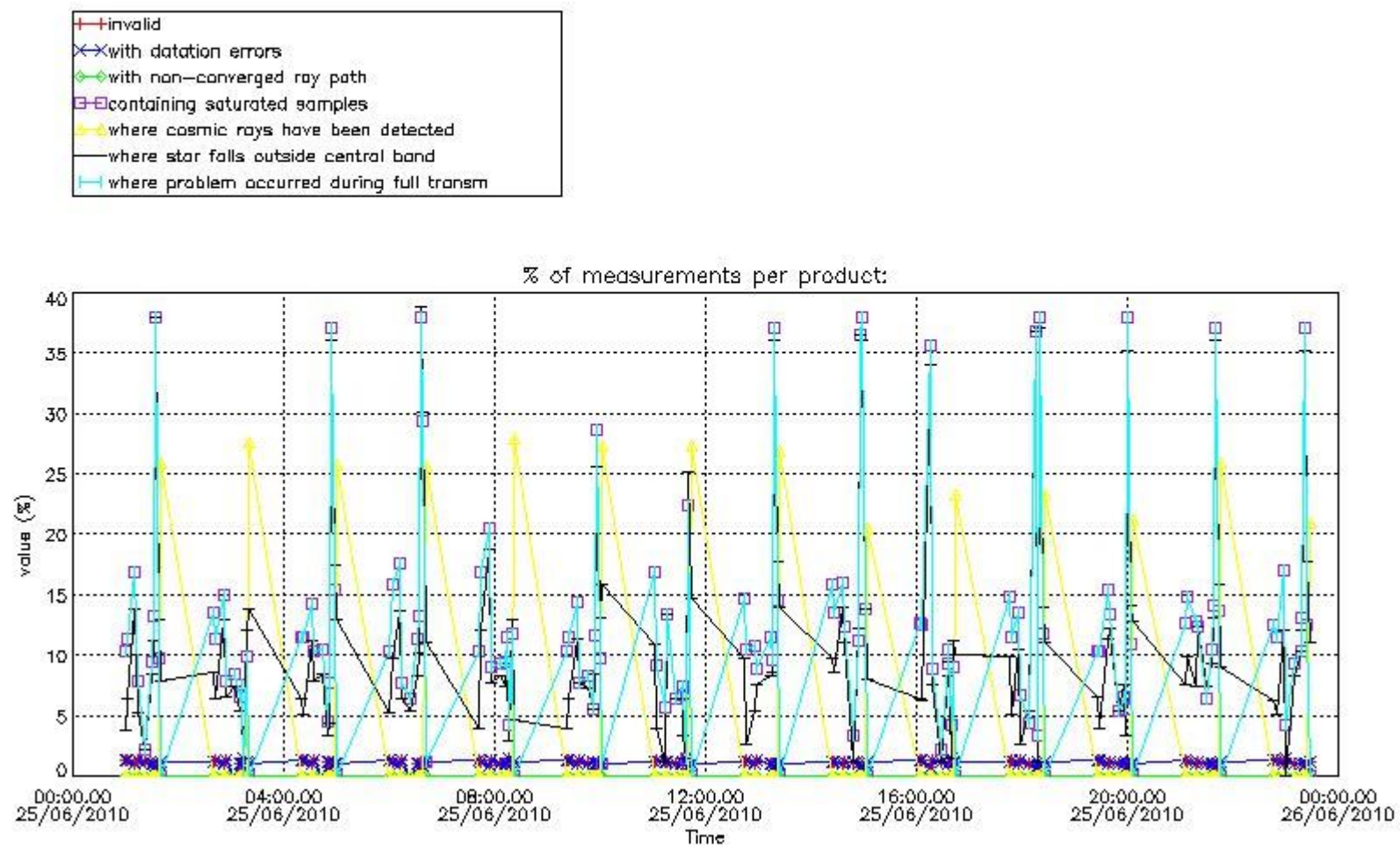
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

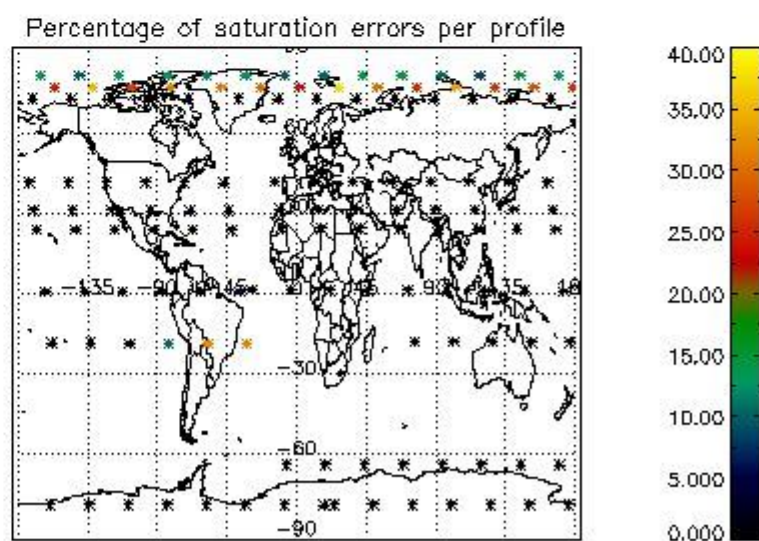
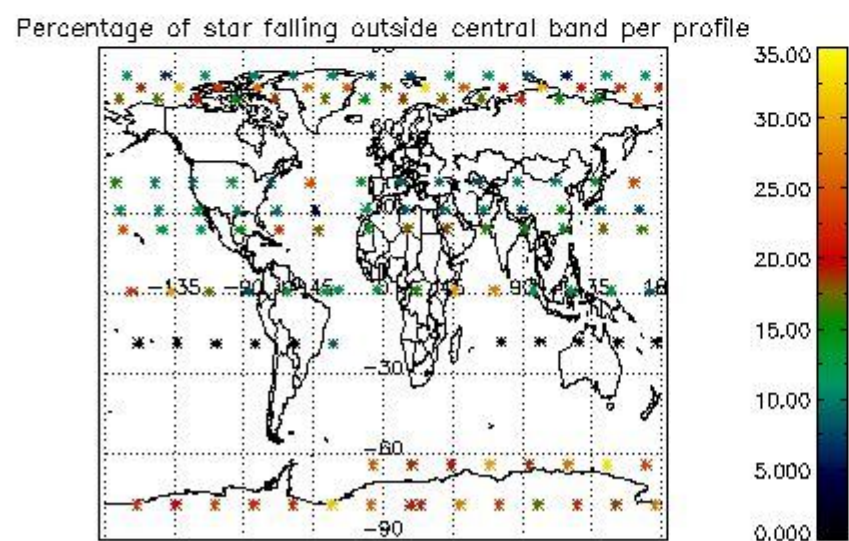
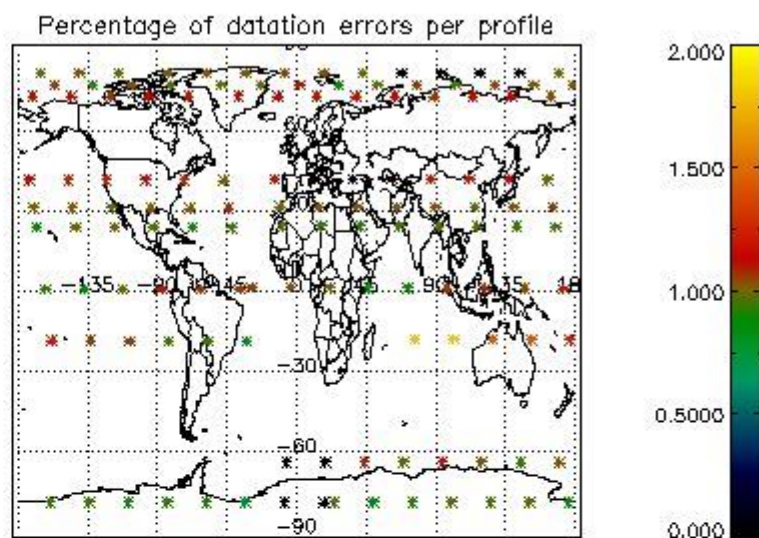
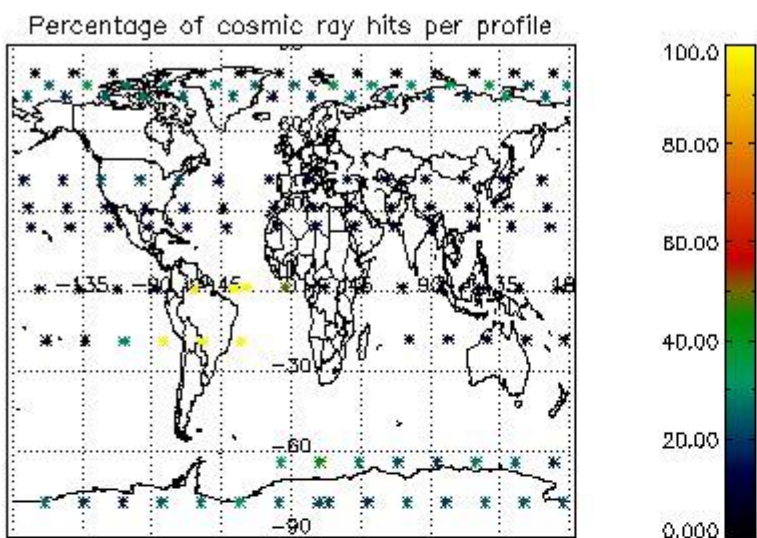


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

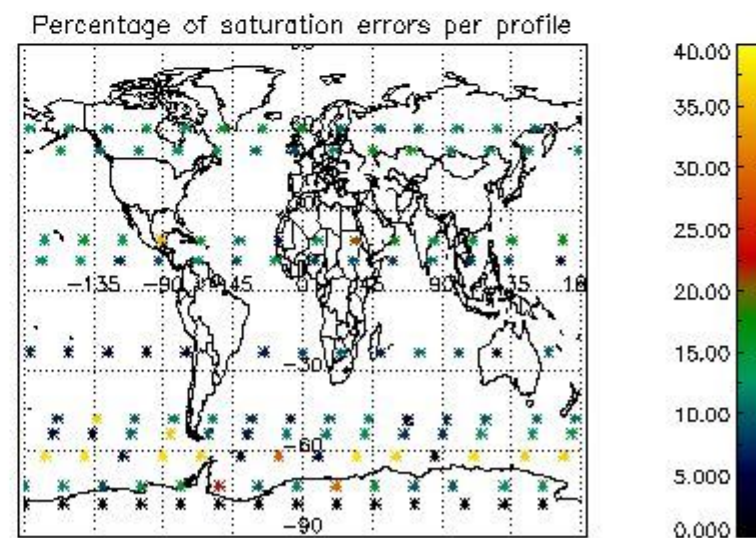
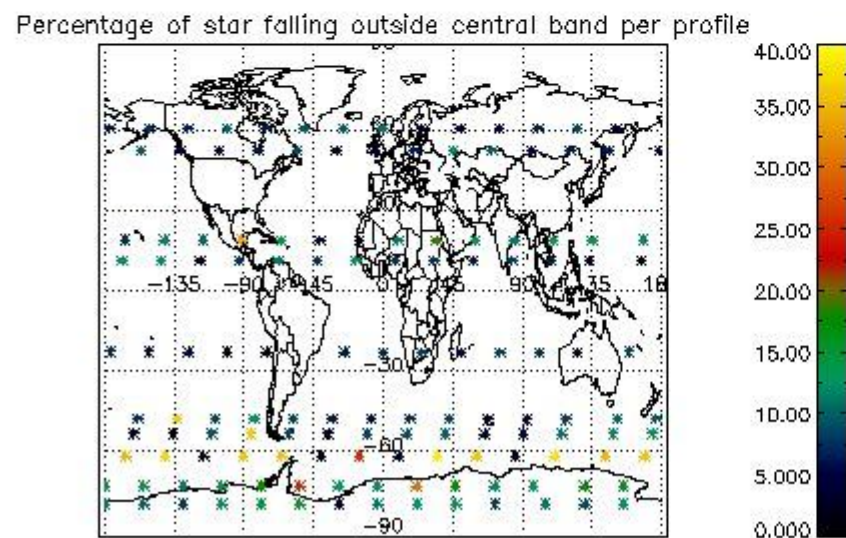
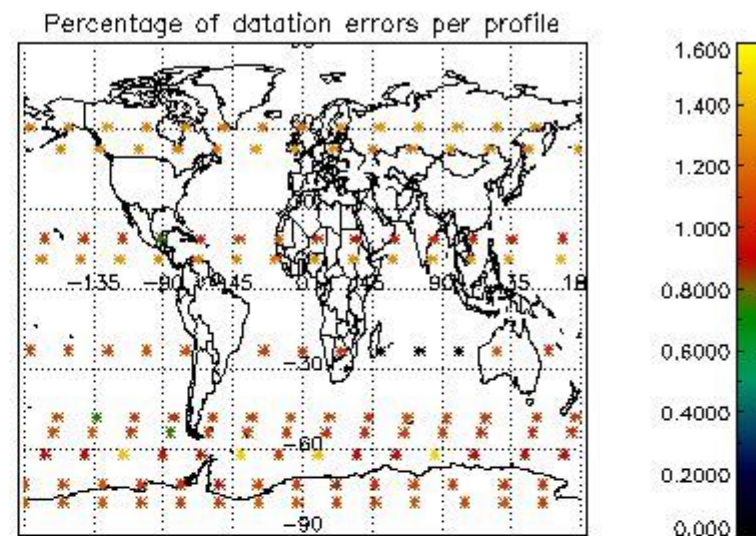
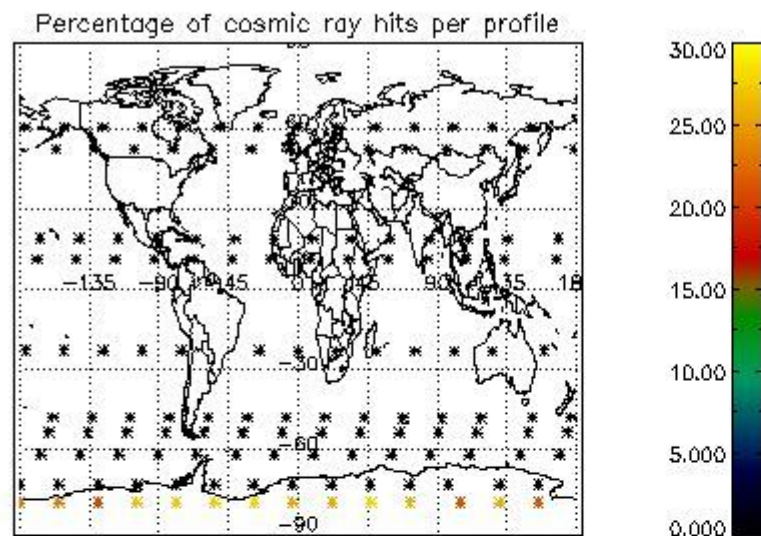


4.2 Plot quality information per product coming from level 1b processing (world map)

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

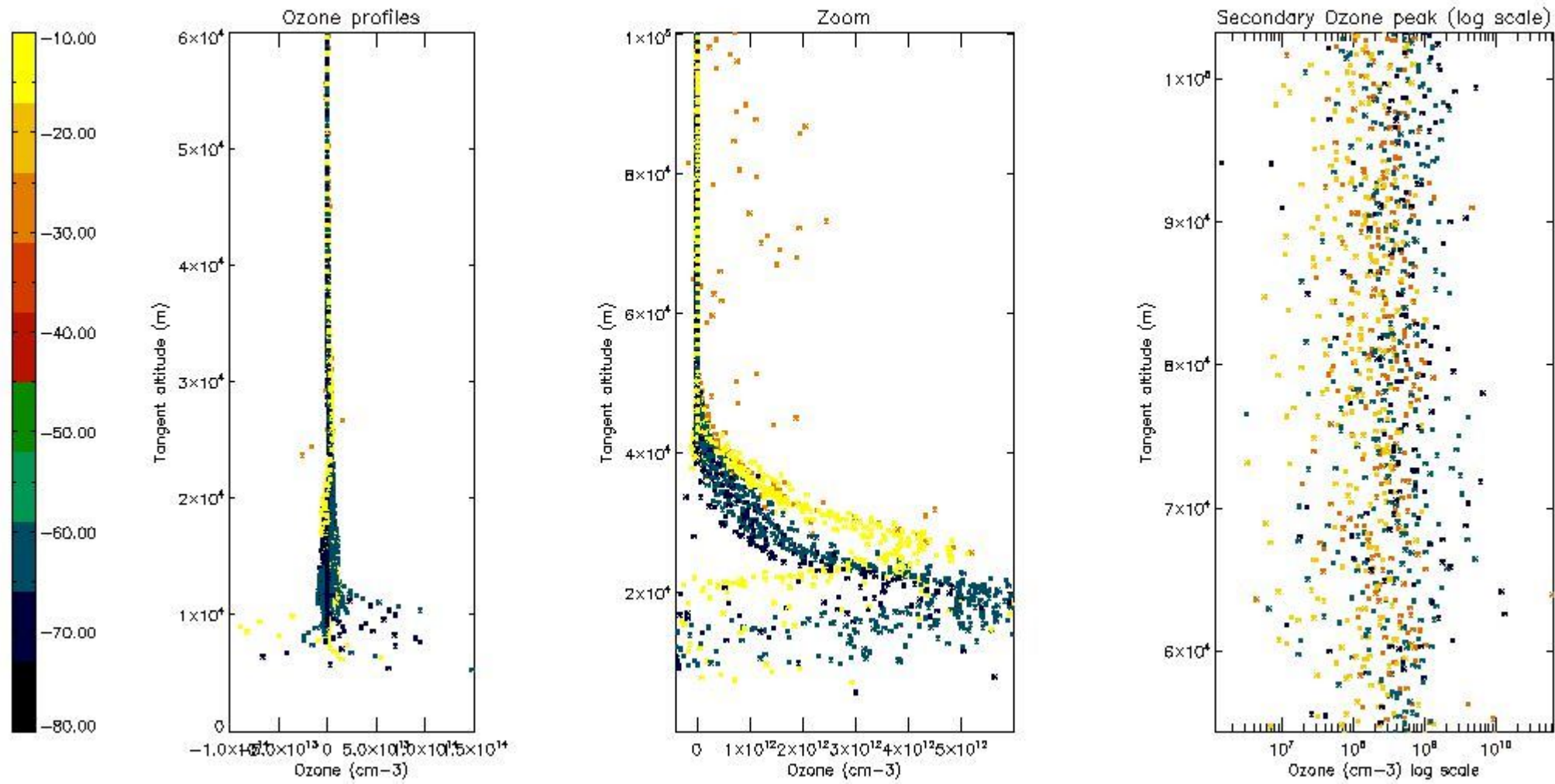
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

| Criteria | % of total production |
|----------|-----------------------|
| All STD  | 19                    |
| STD < 20 | 4                     |

|          |   |
|----------|---|
| STD < 10 | 2 |
| STD < 5  | 0 |

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

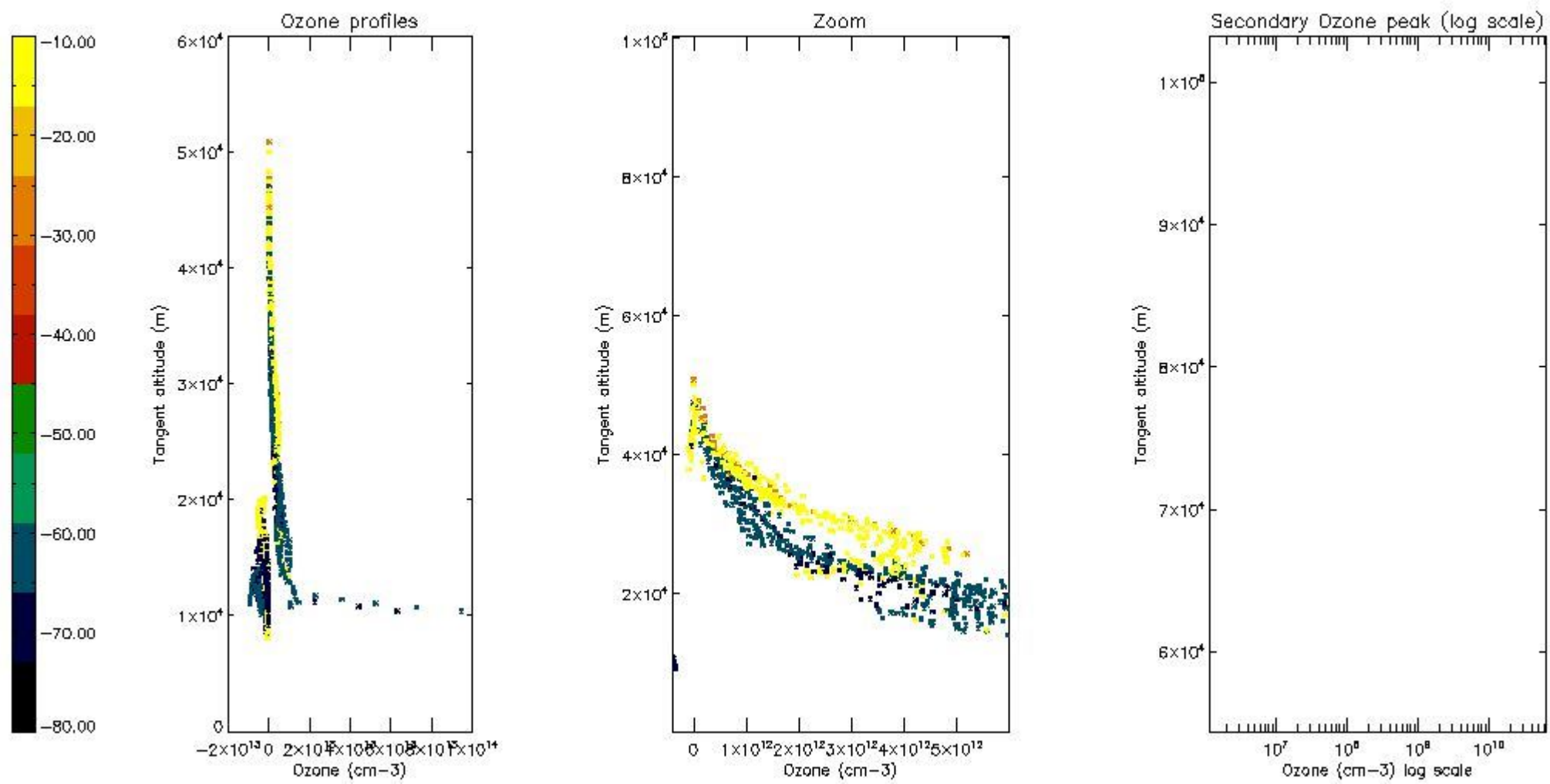
The colorbar represents the latitude.



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

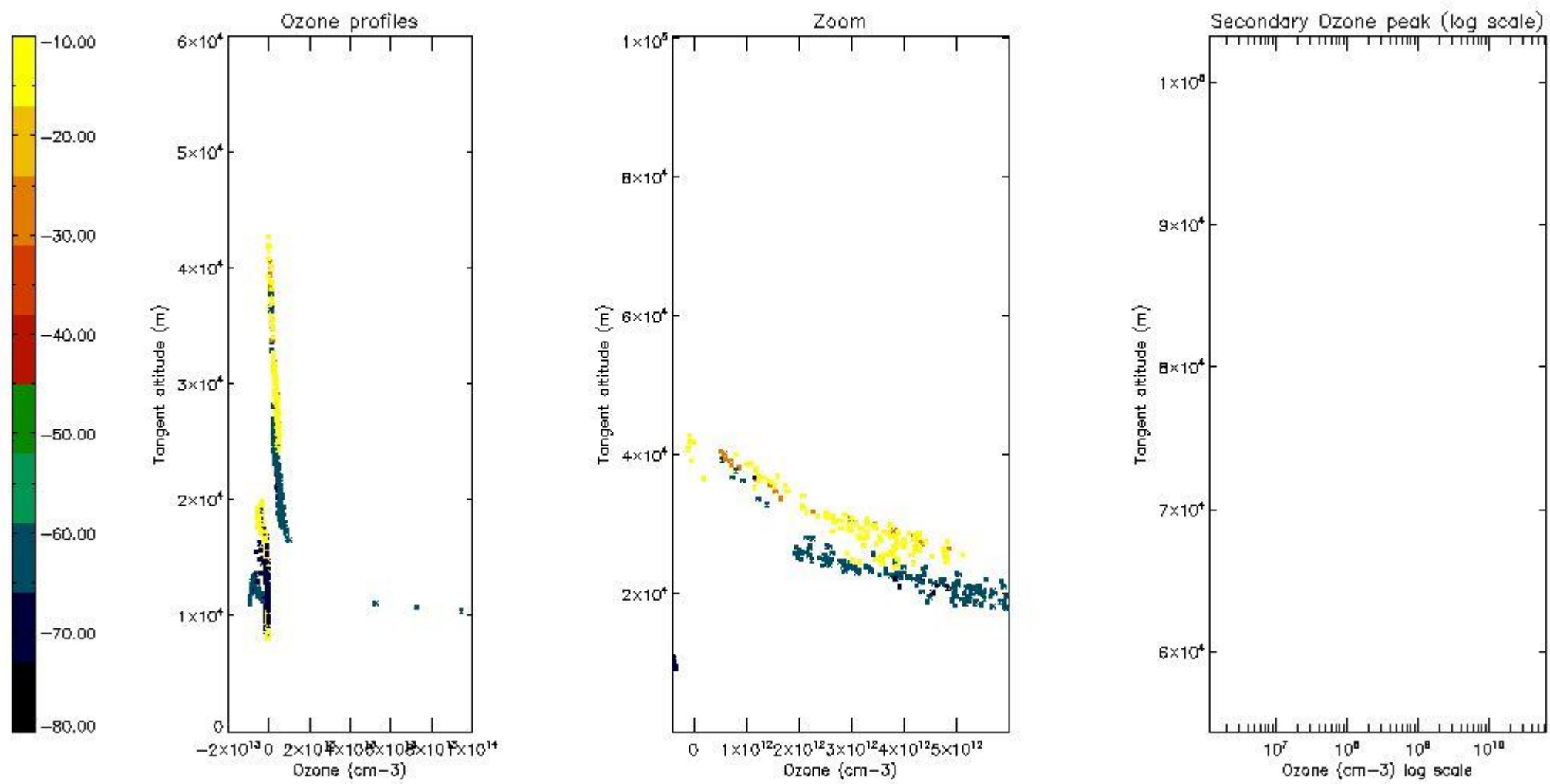
The colorbar represents the latitude.





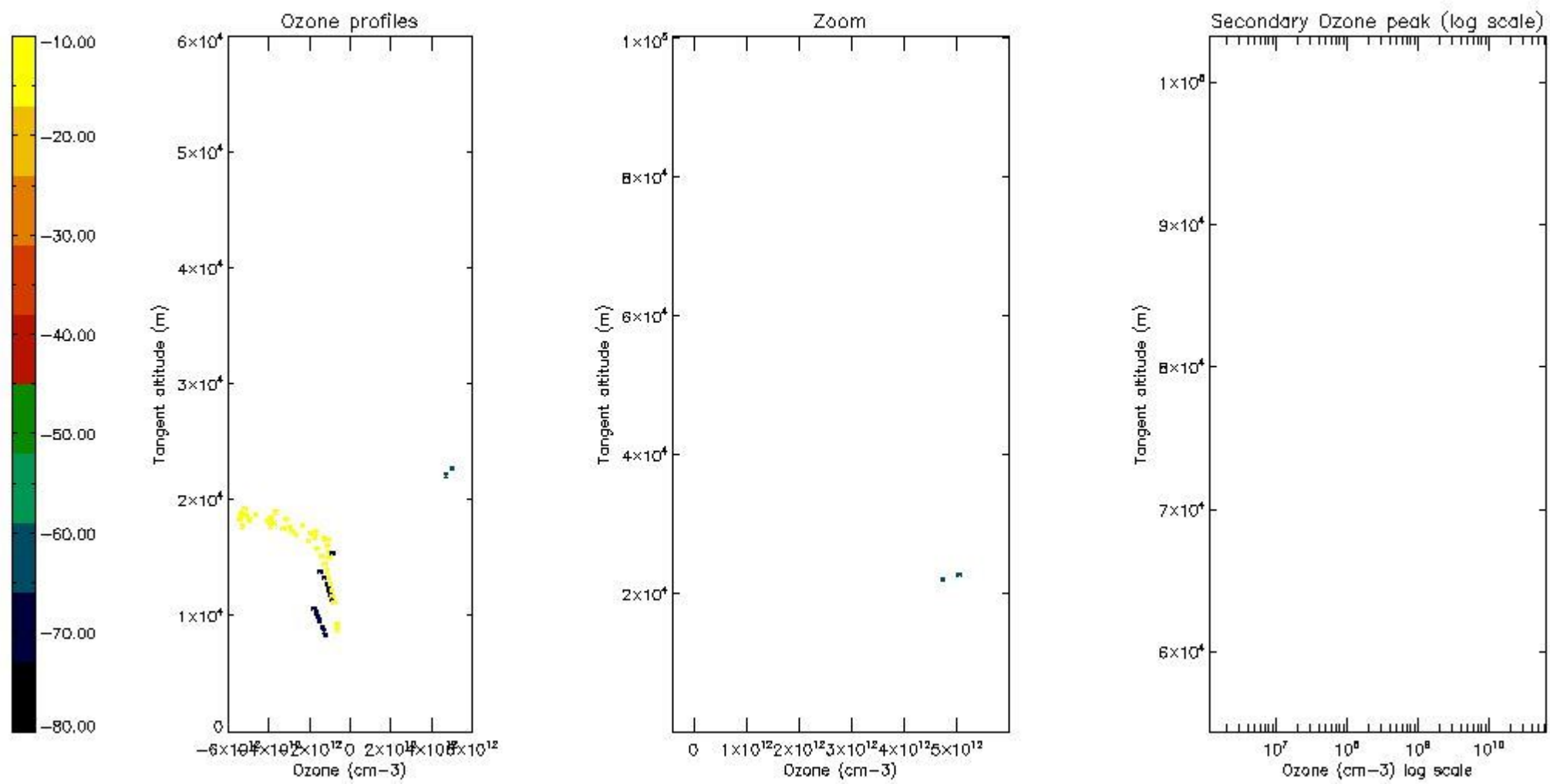
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



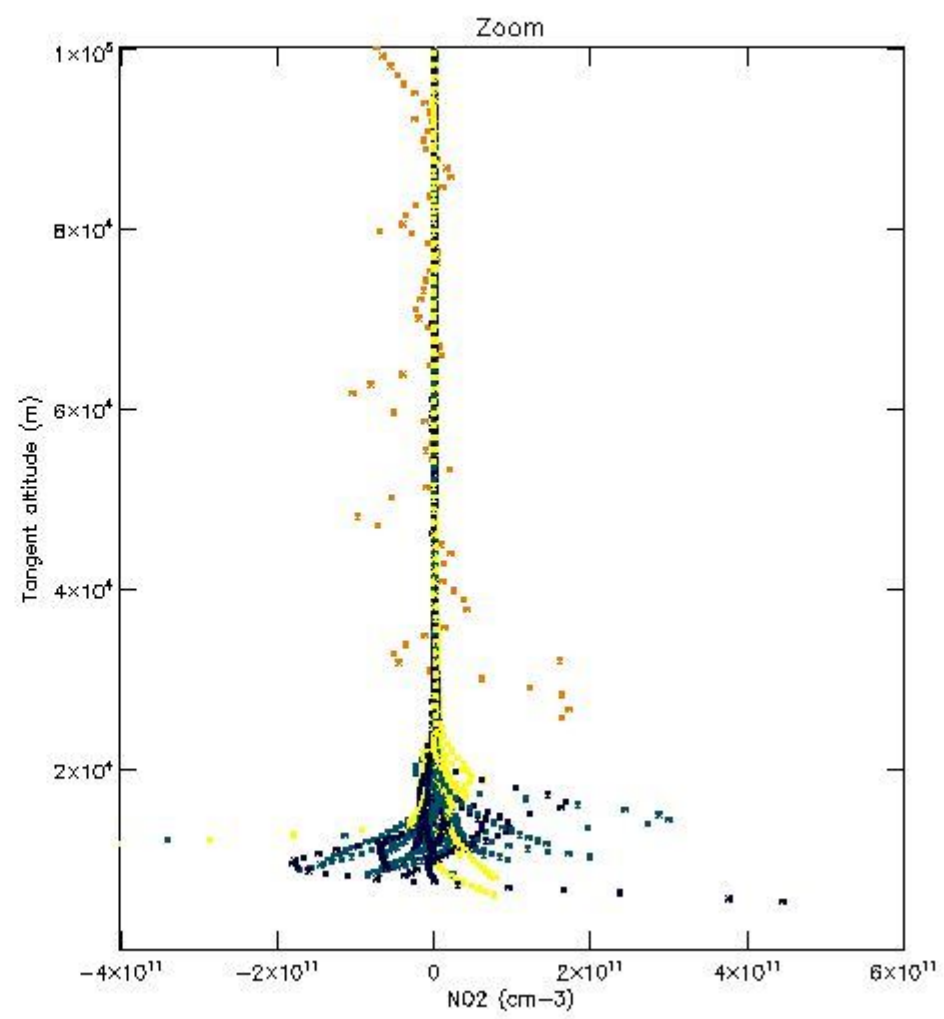
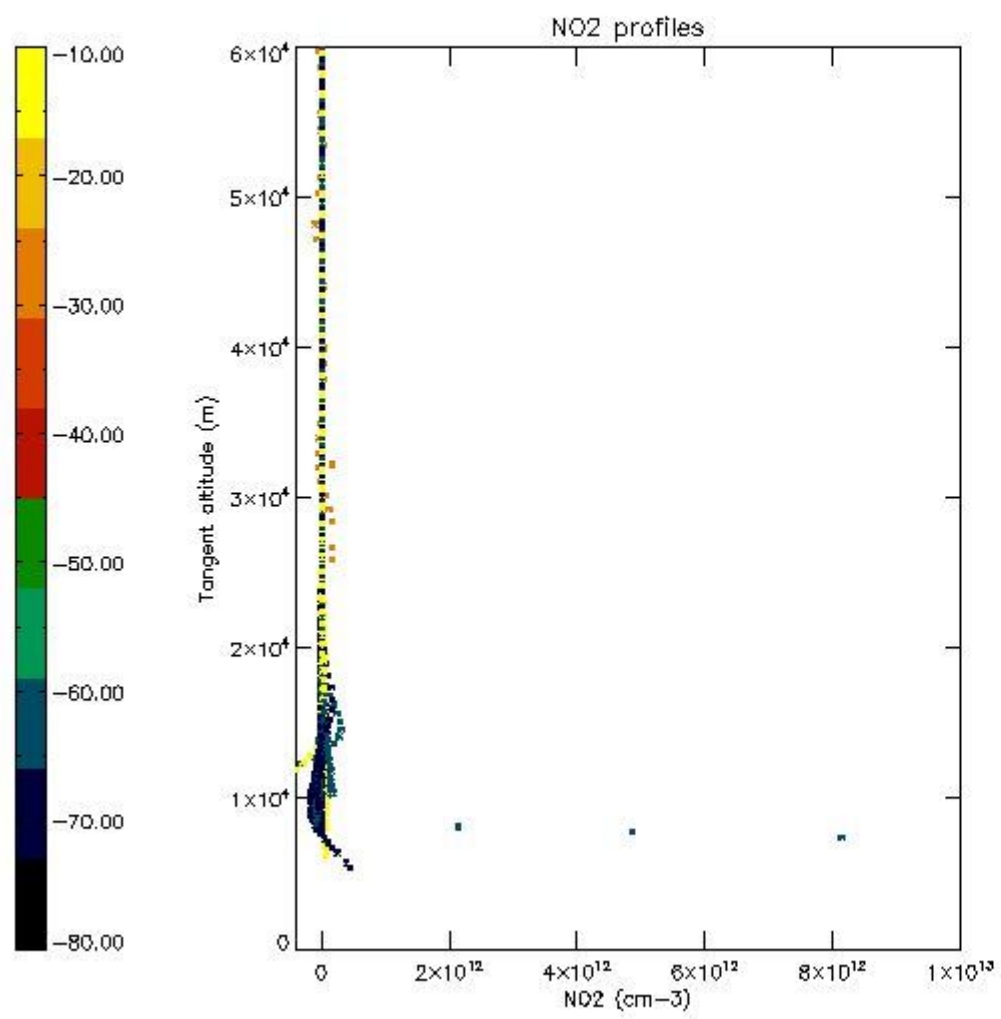
*5.5 Plot ozone profiles where  $STD < 5\%$  (dark without errors)*

The colorbar represents the latitude.



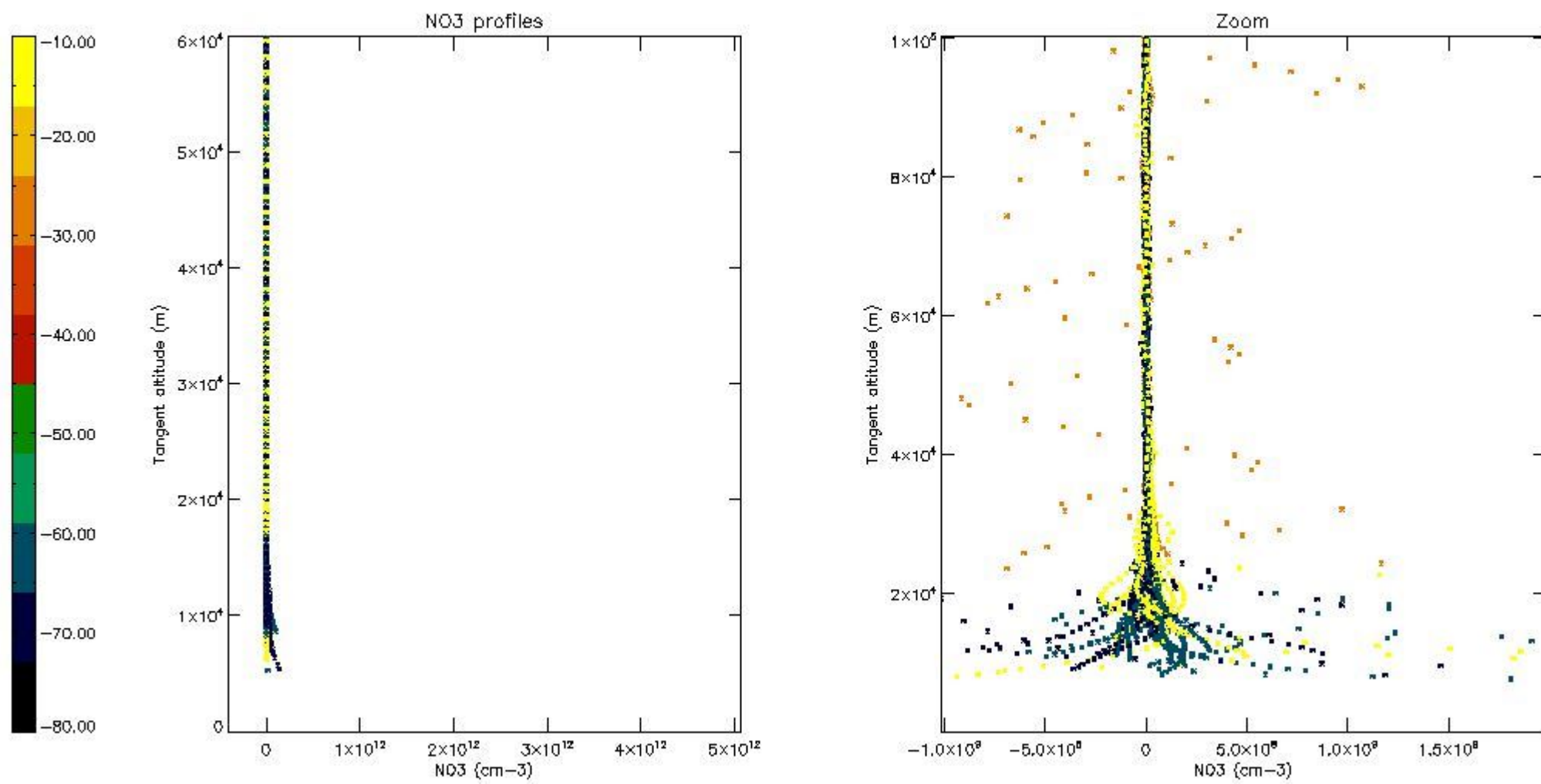
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



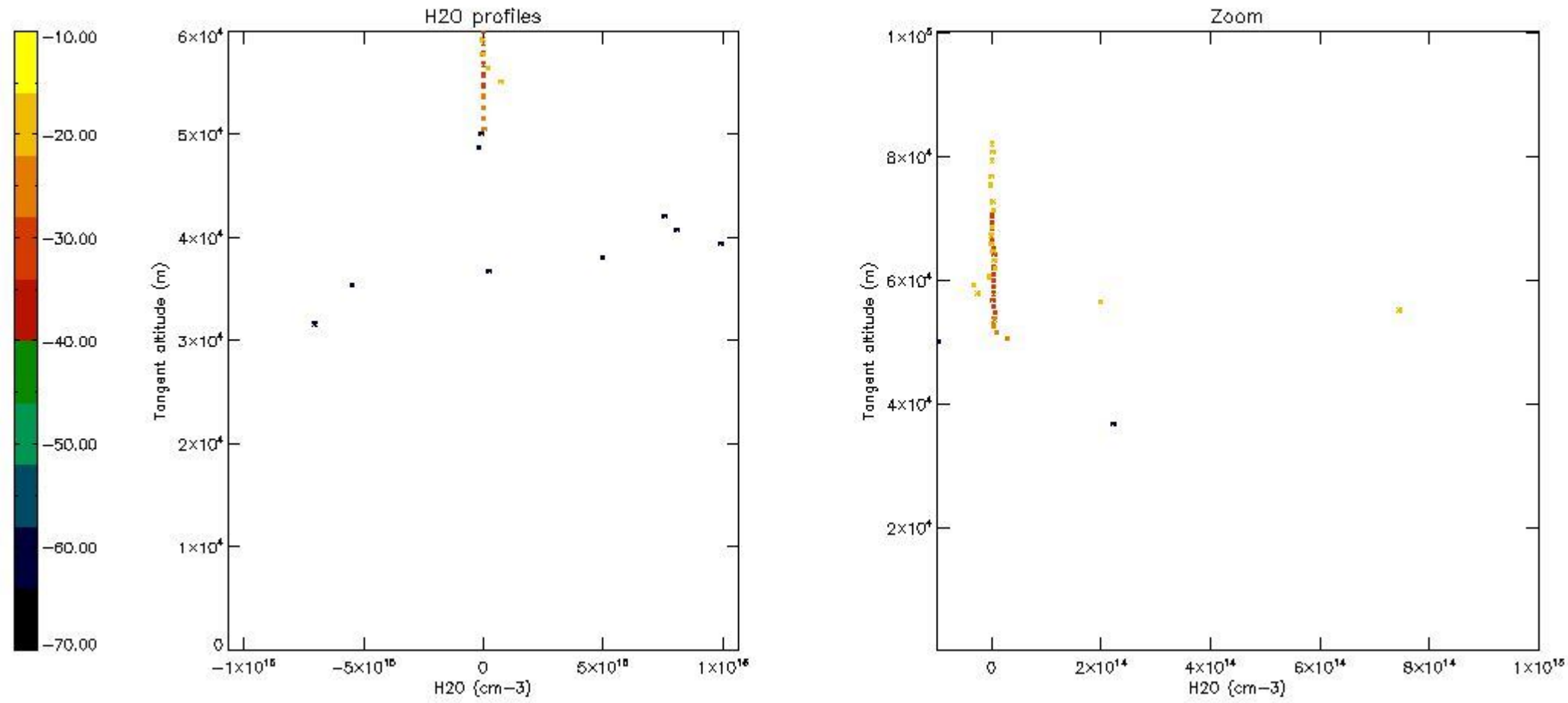
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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)*

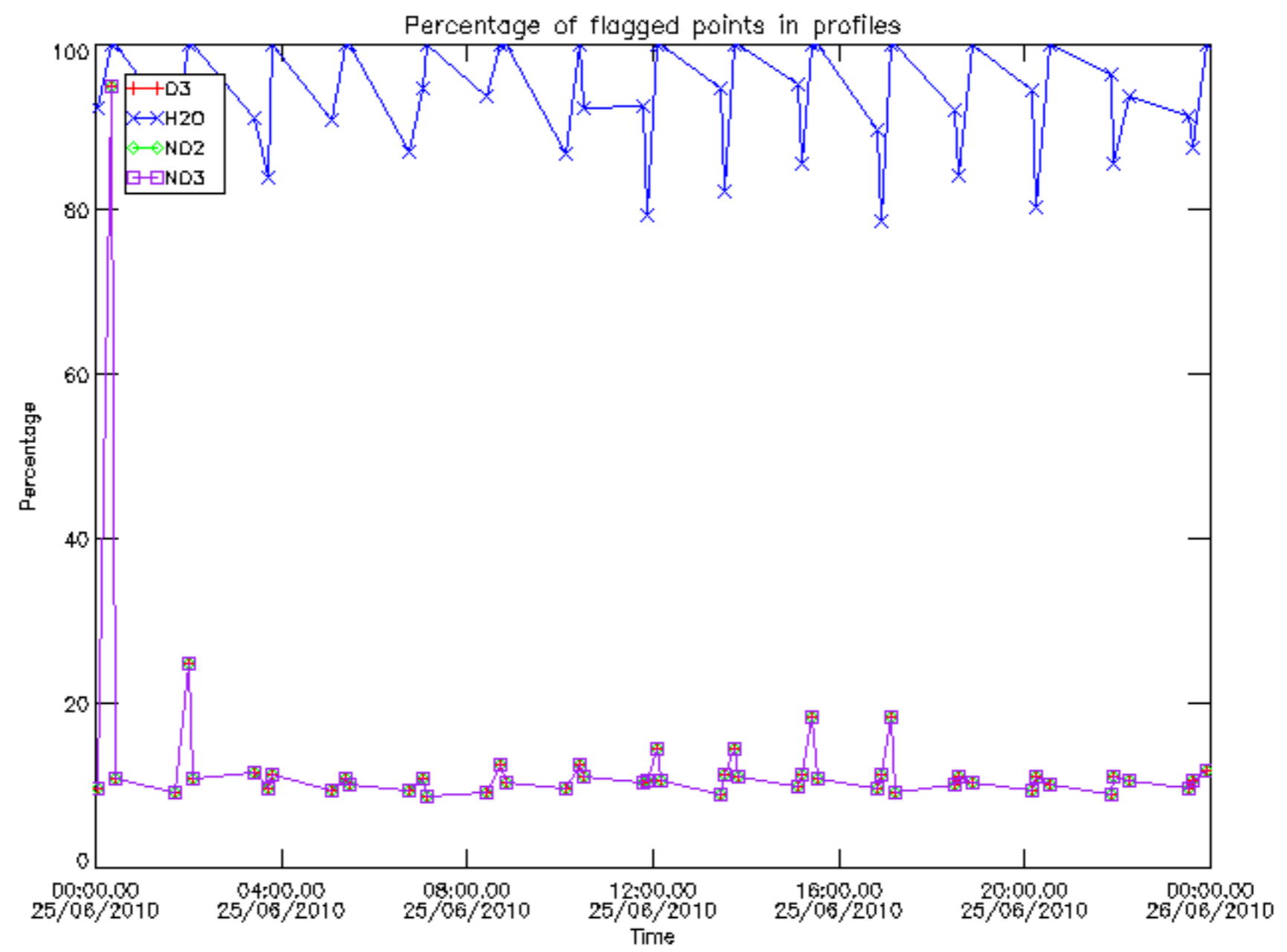
The colorbar represents the latitude.



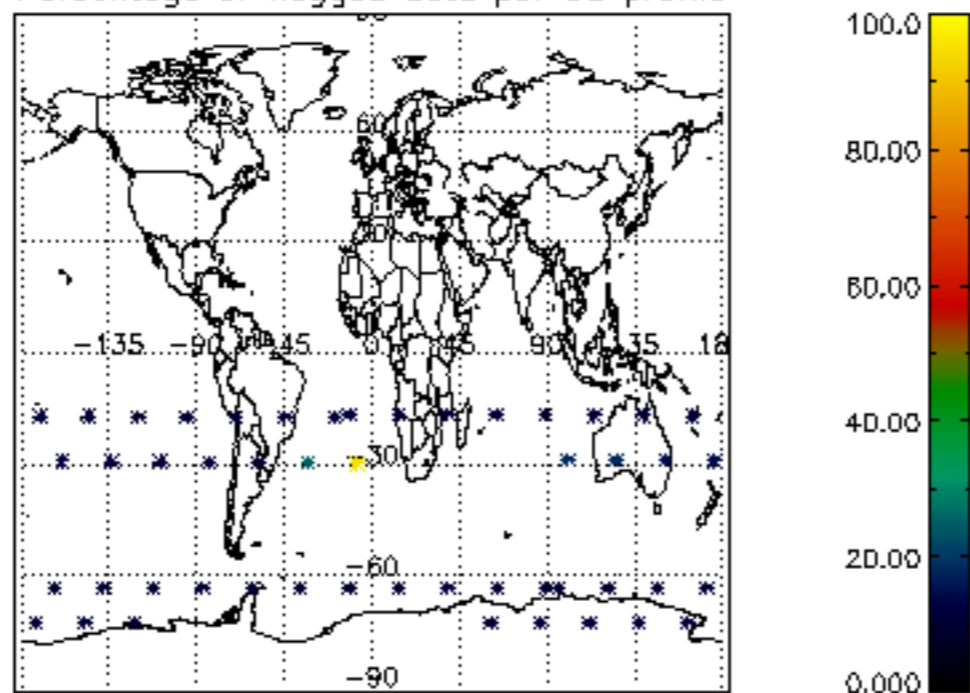
## 6. Auxiliary Data Files used for the production reported in section 2

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.

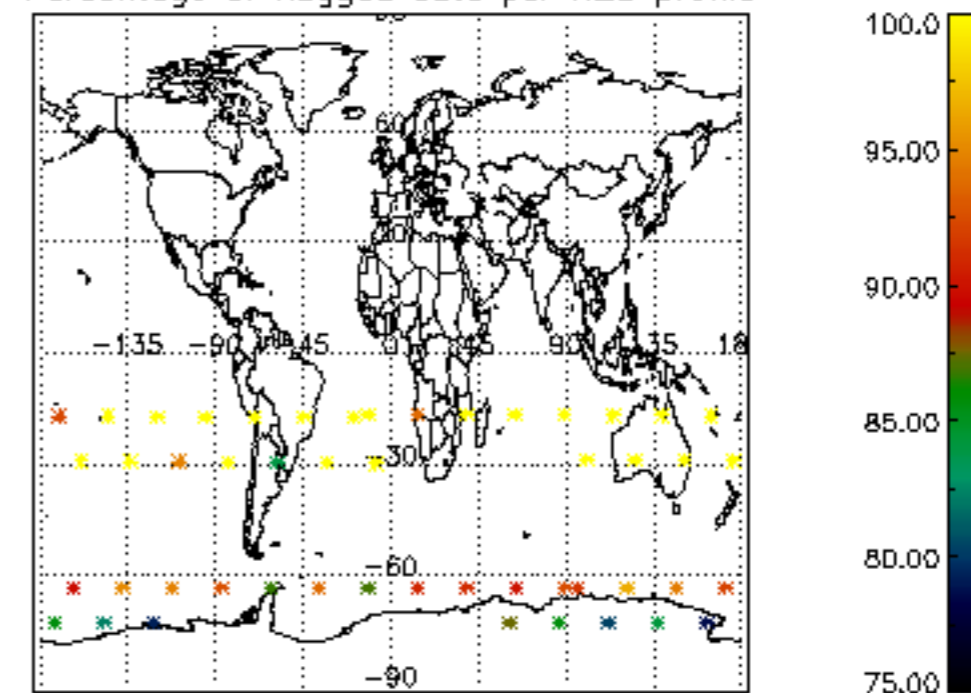
| Type                      | Auxiliary Filename  | Used since product | Used since product date |
|---------------------------|---|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000 | 1                  | 25-JUN-2010 00:02:50    |
| LEVEL-2_PROC_CONFIG       | GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000 | 1                  | 25-JUN-2010 00:02:50    |
| CROSS_SECTIONS_FILE       | GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000 | 1                  | 25-JUN-2010 00:02:50    |



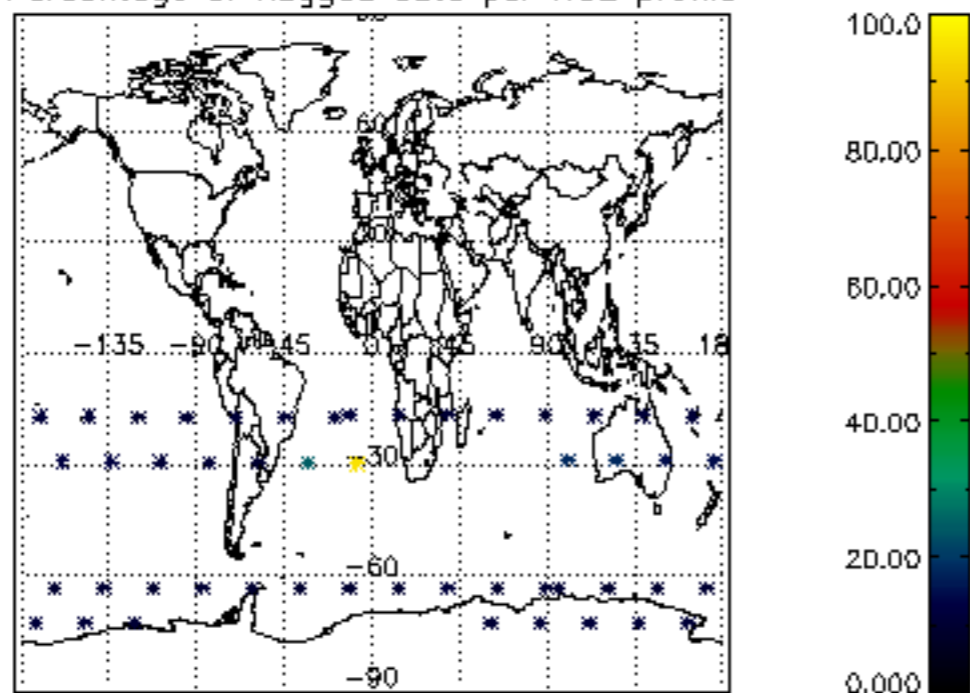
Percentage of flagged data per D3 profile



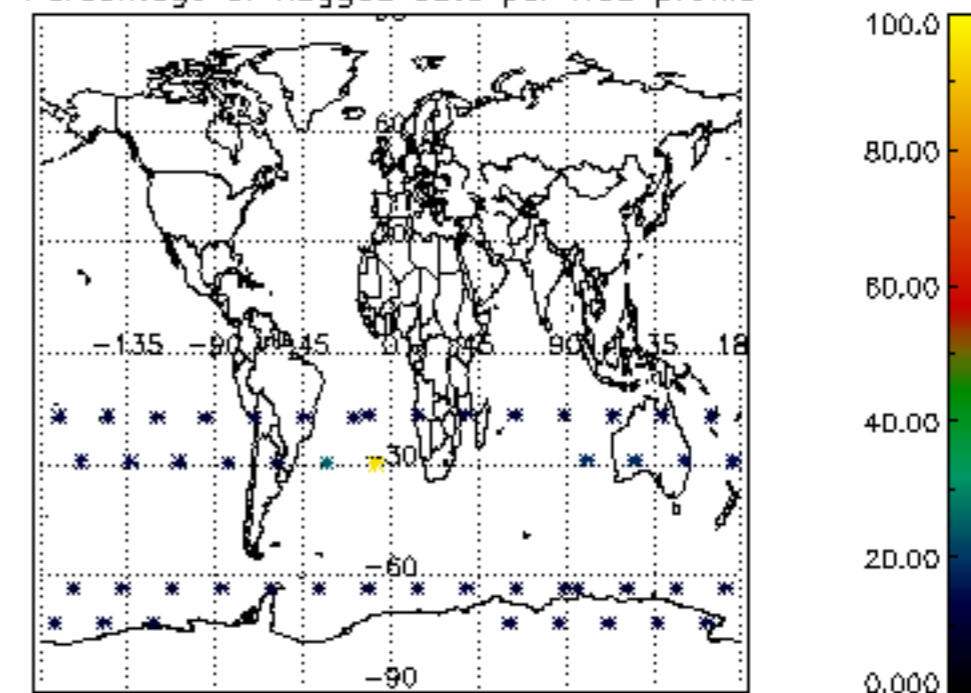
Percentage of flagged data per H2O profile



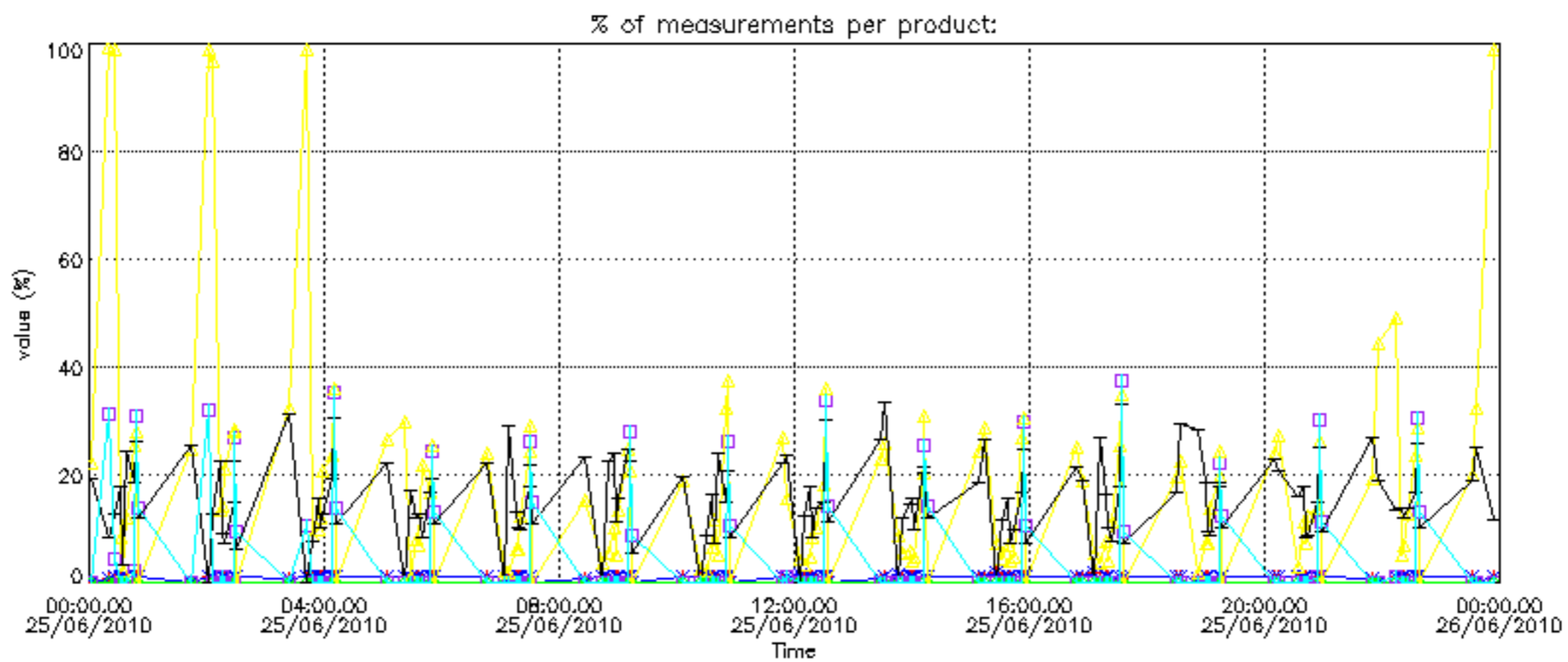
Percentage of flagged data per NO2 profile

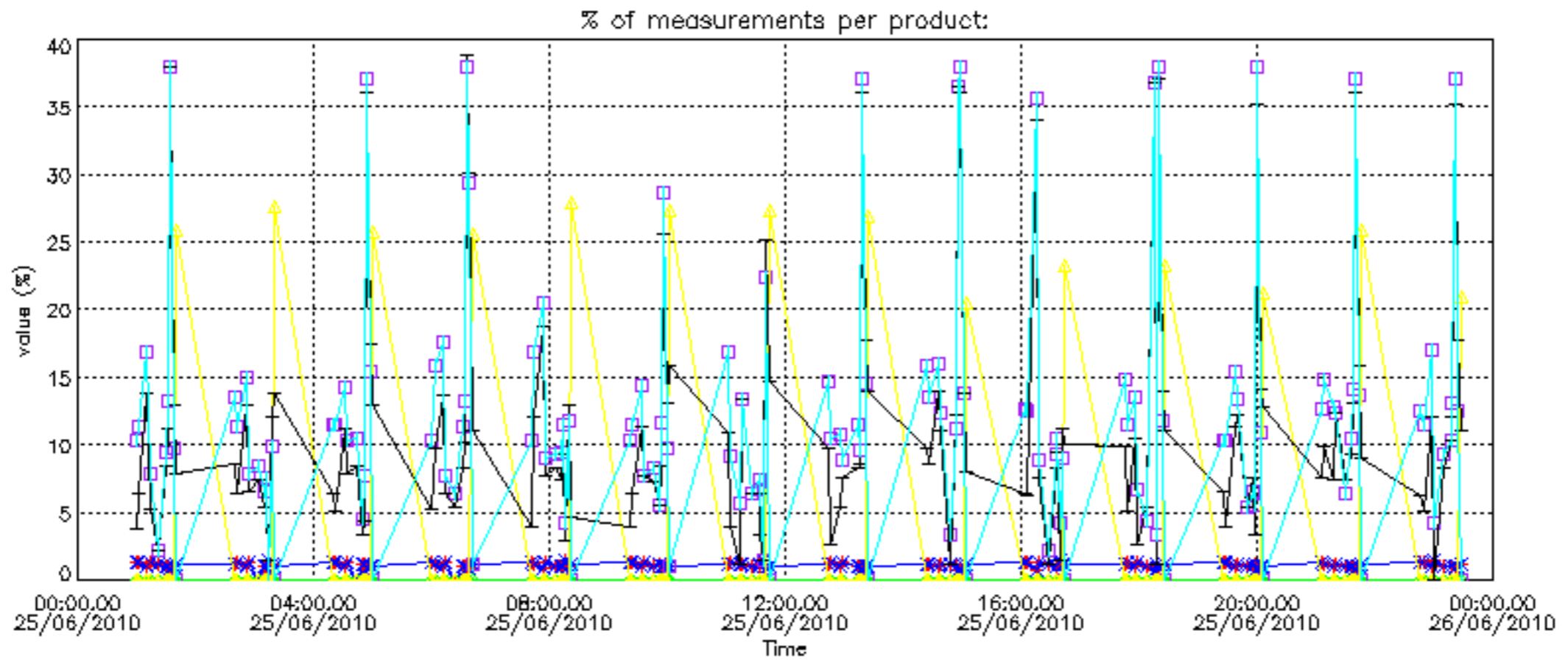


Percentage of flagged data per NO3 profile

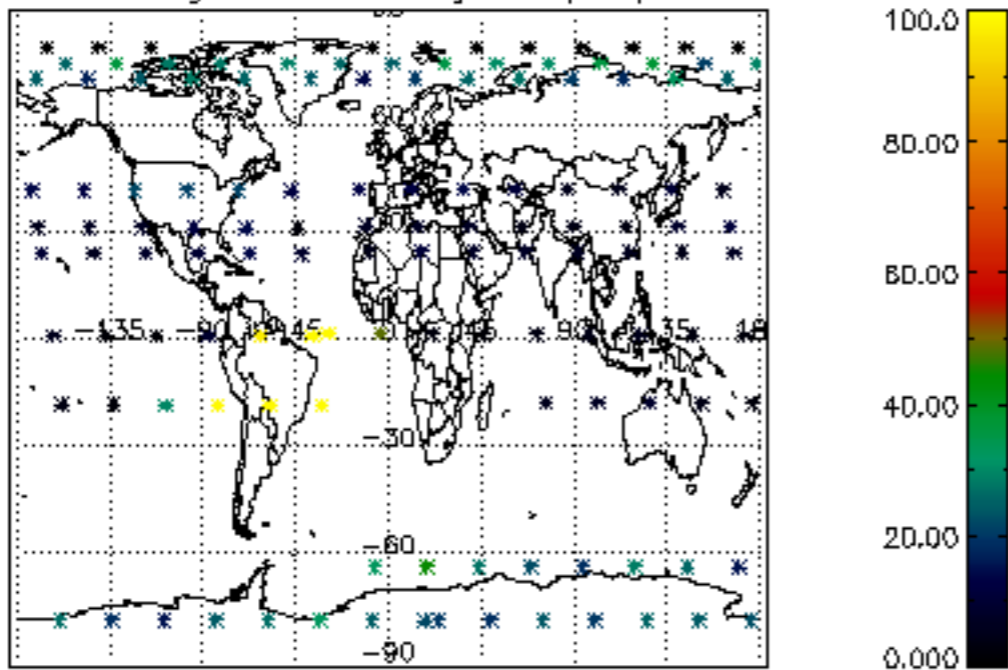




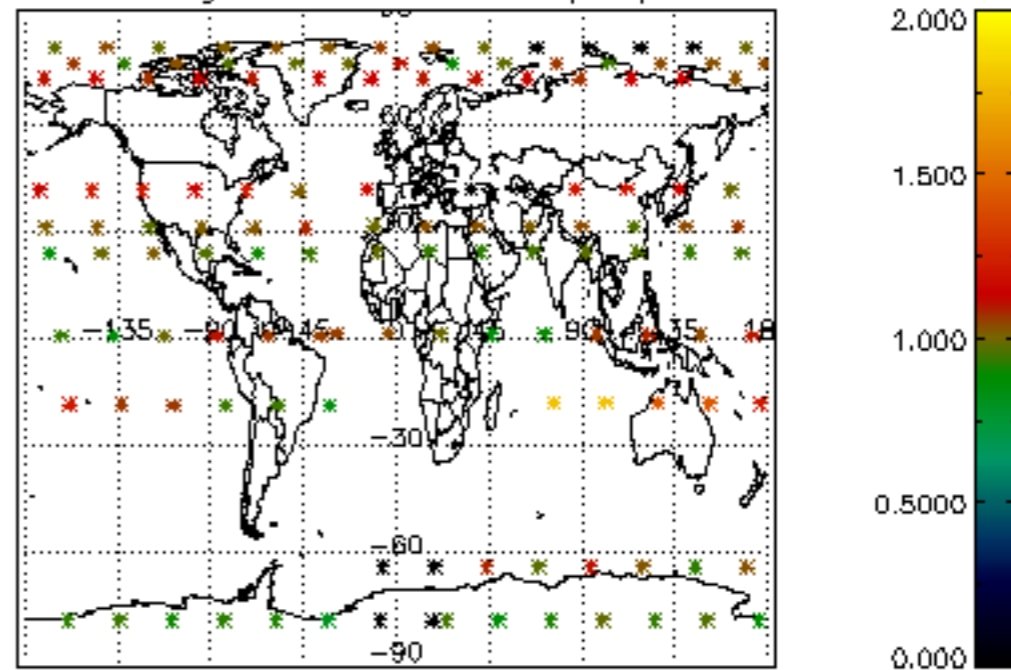




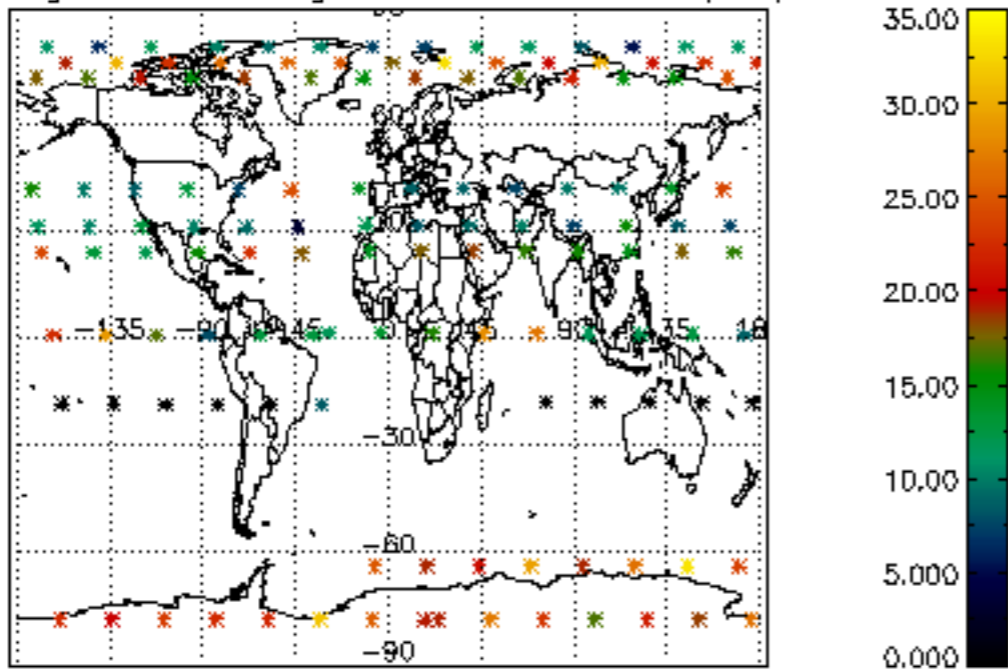
Percentage of cosmic ray hits per profile



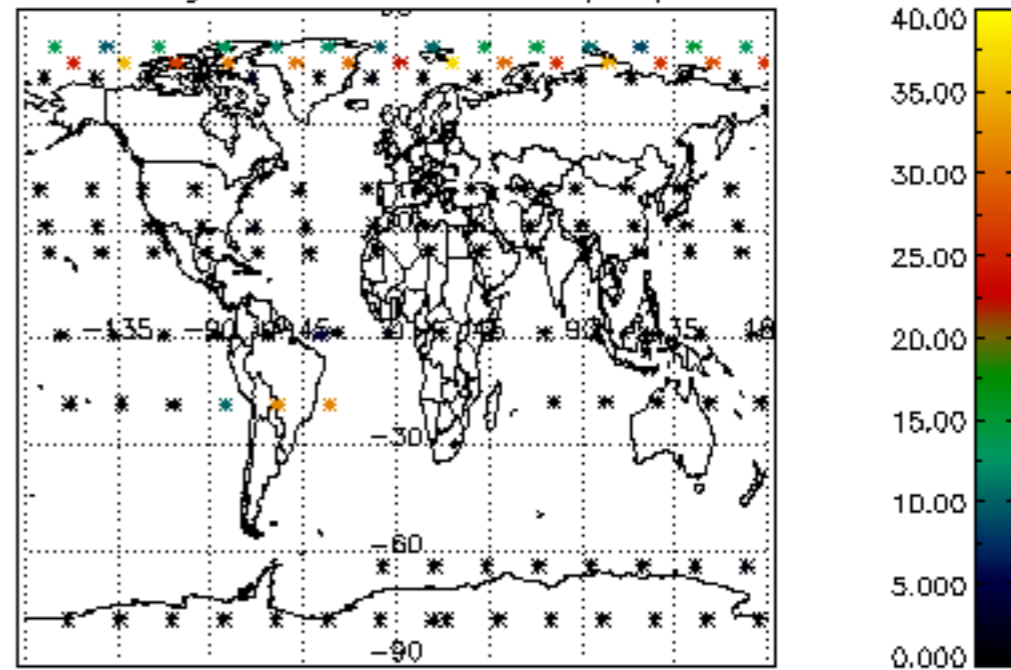
Percentage of datation errors per profile



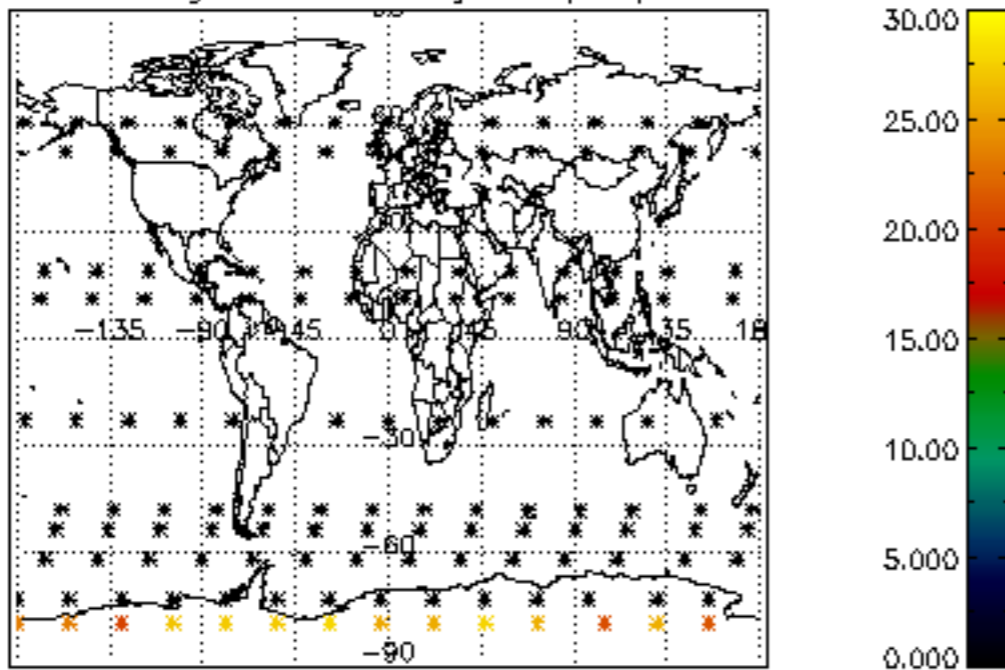
Percentage of star falling outside central band per profile



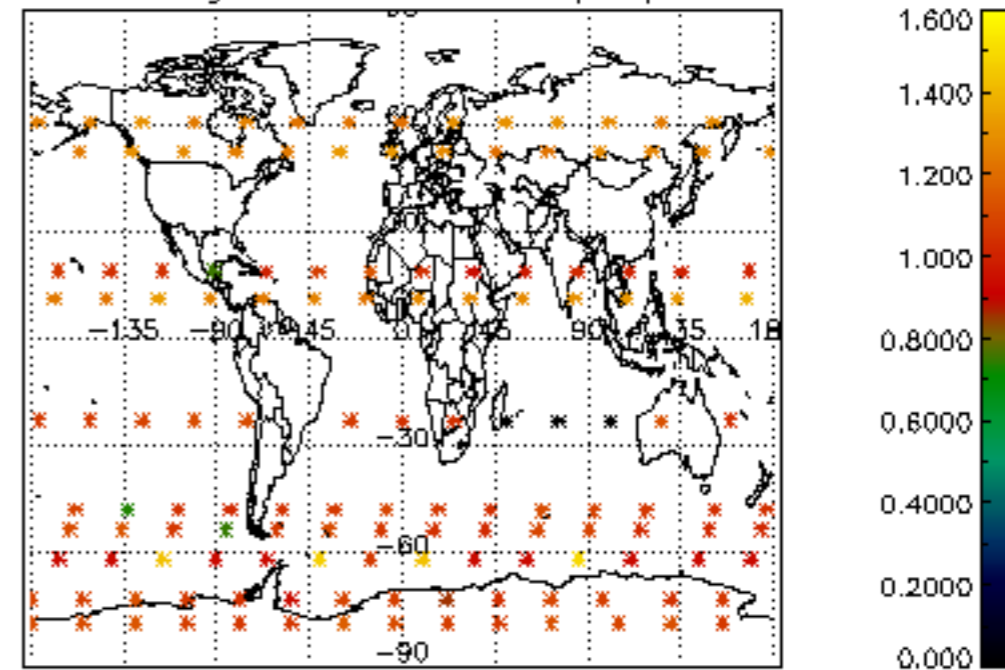
Percentage of saturation errors per profile



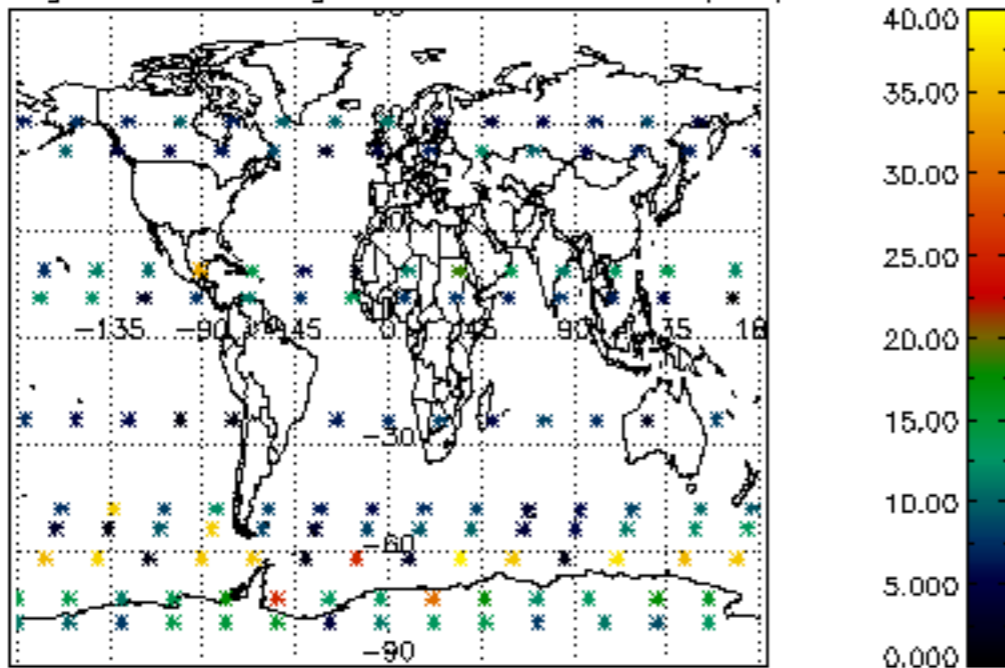
Percentage of cosmic ray hits per profile



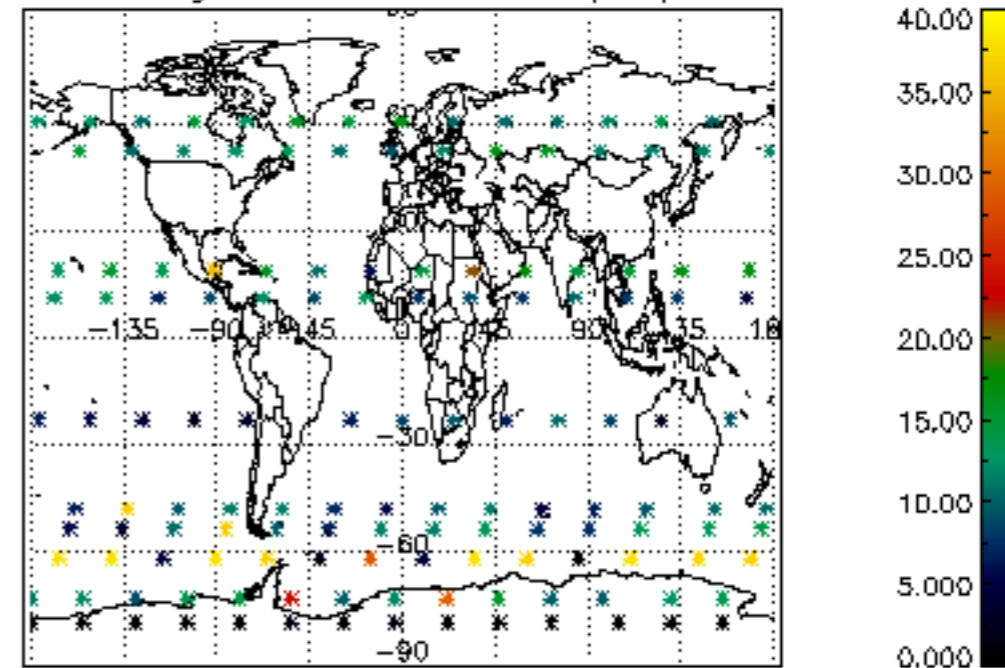
Percentage of datation errors per profile

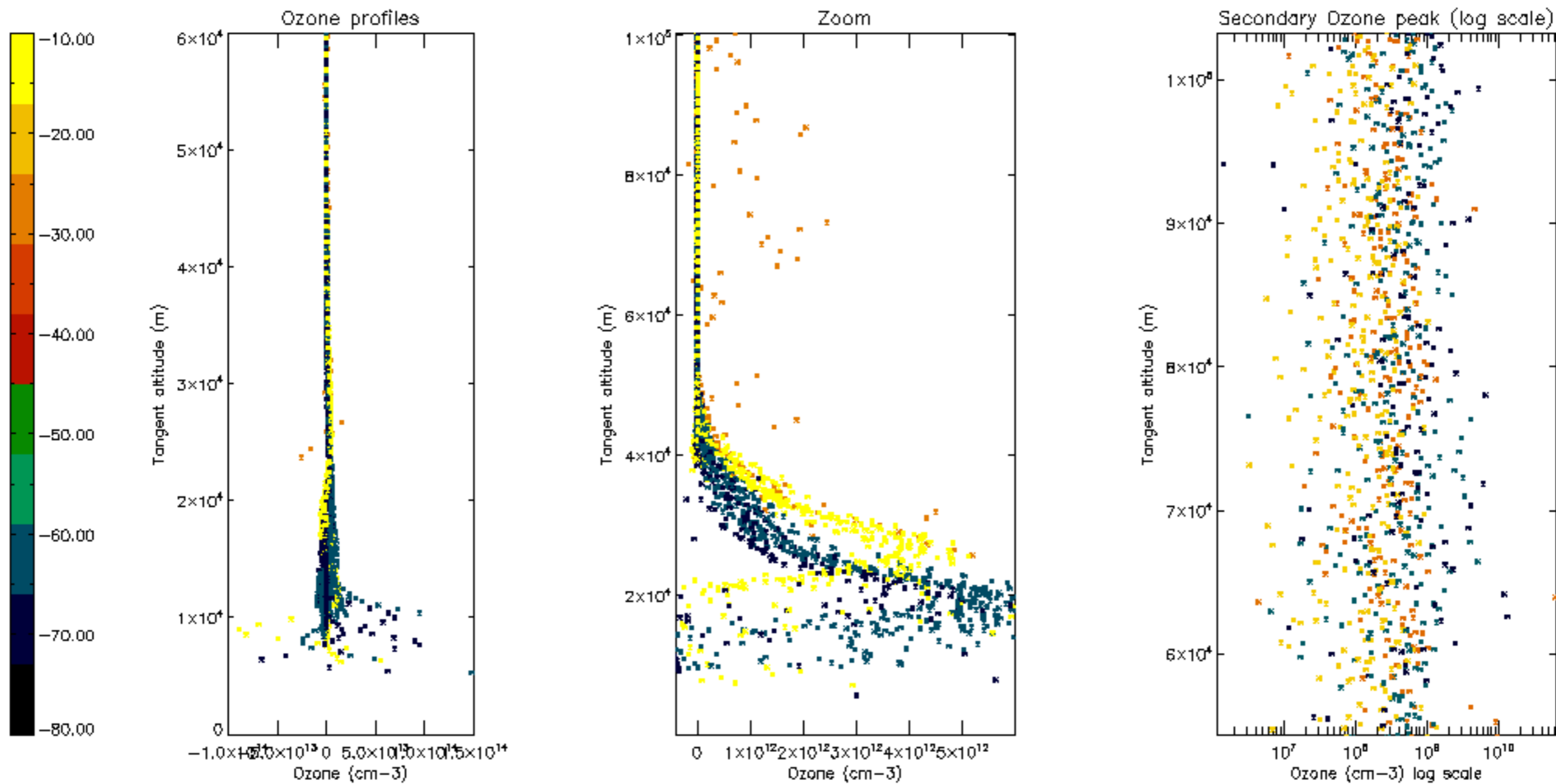


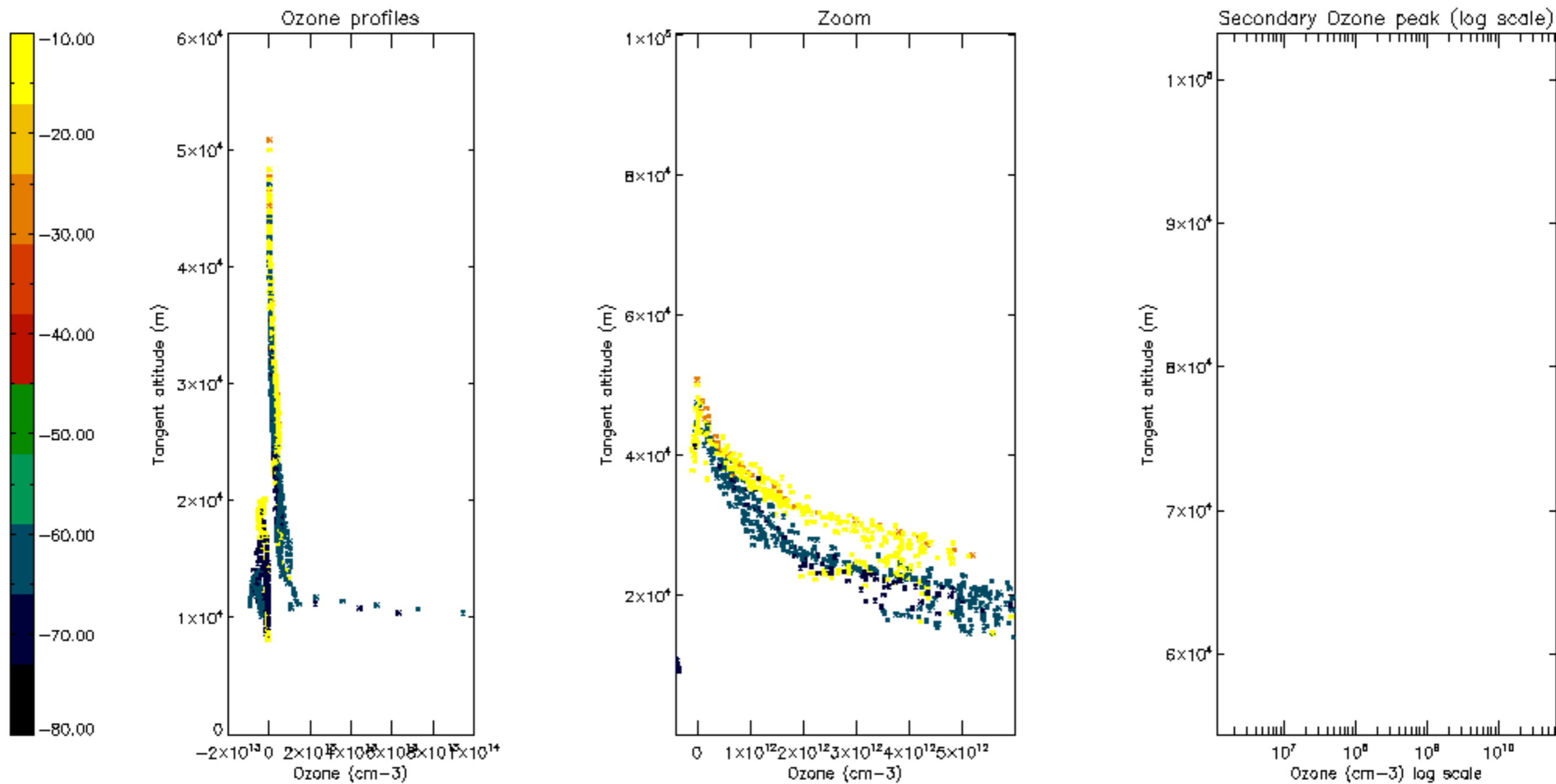
Percentage of star falling outside central band per profile

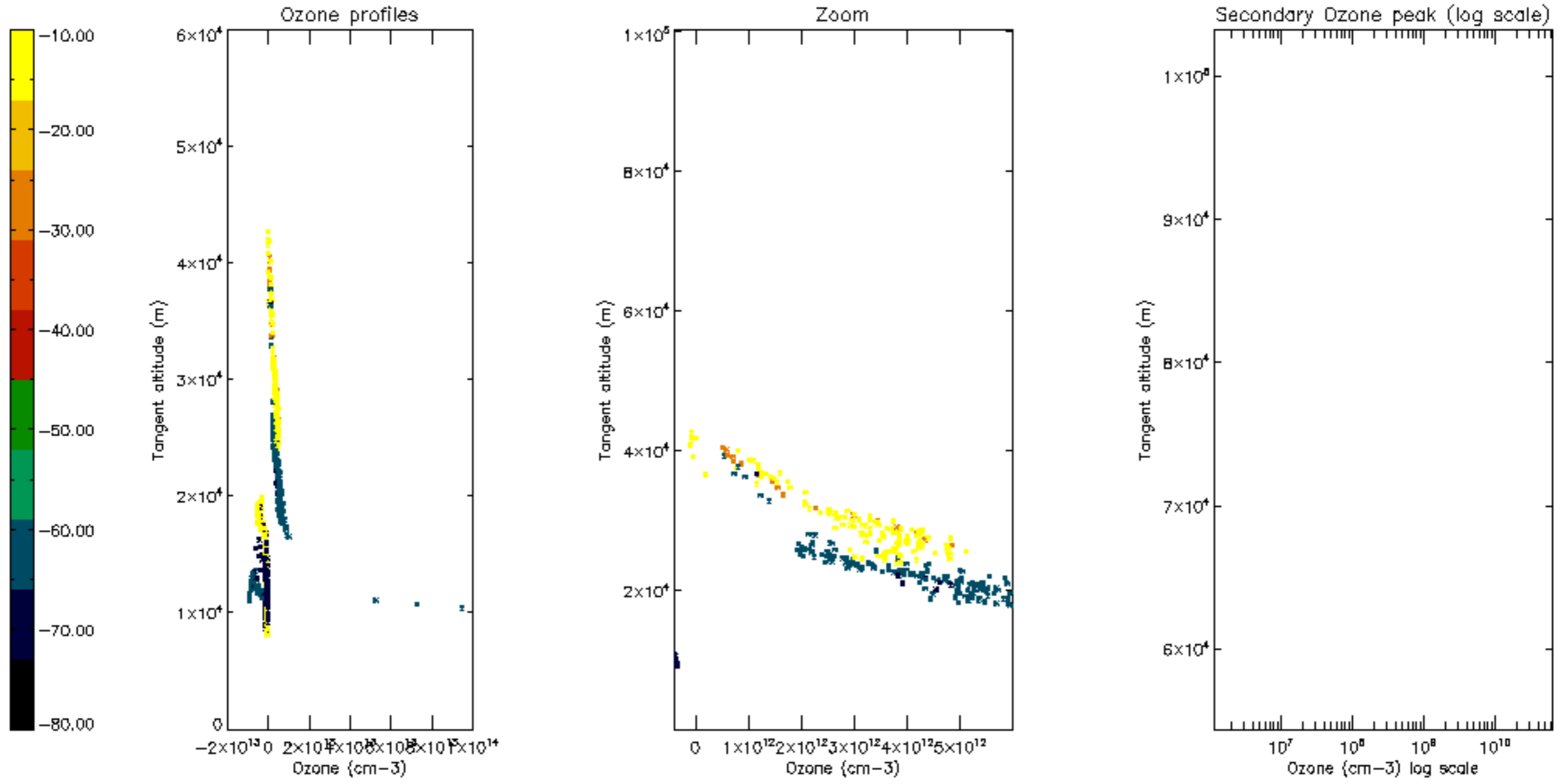


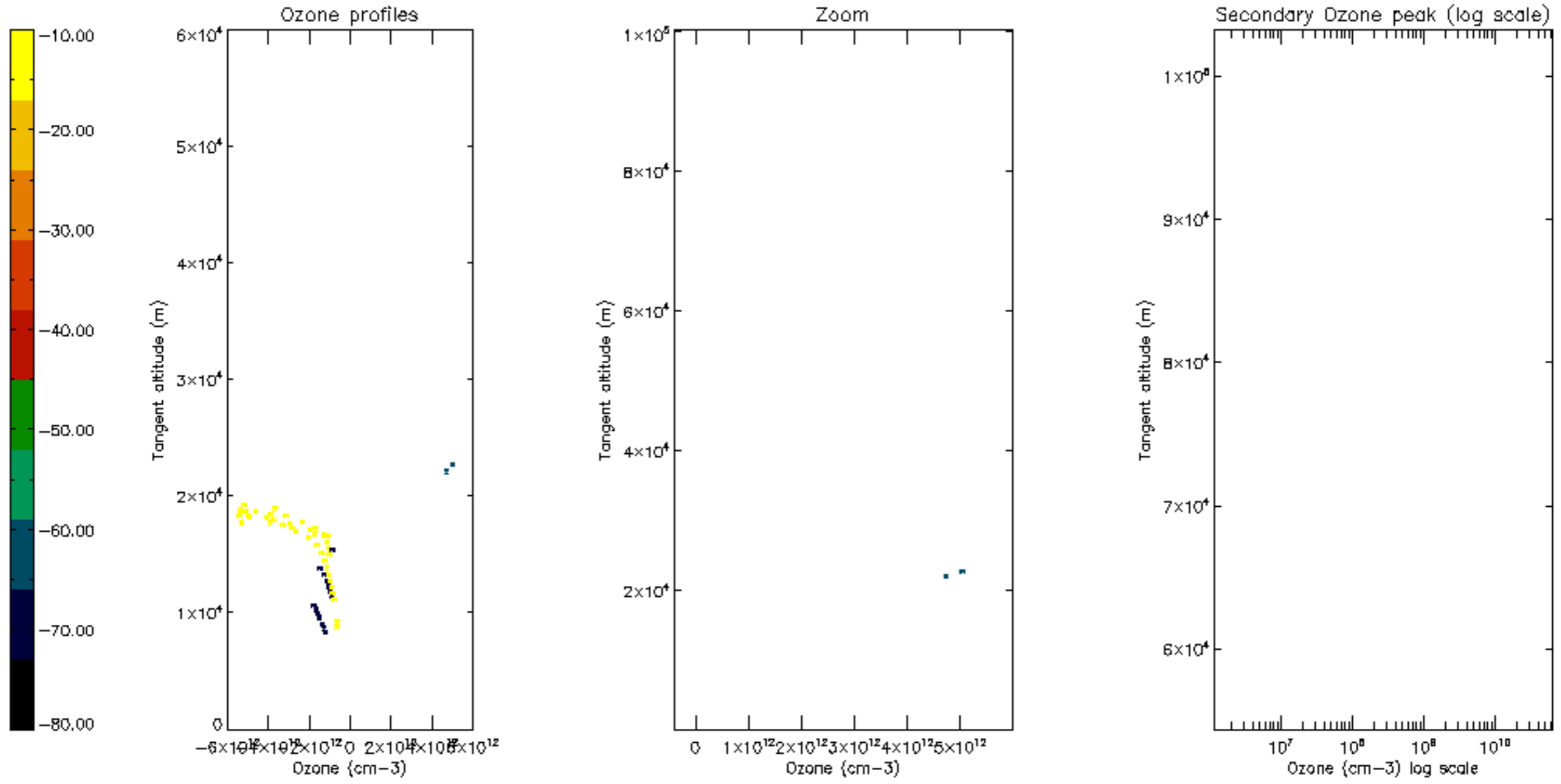
Percentage of saturation errors per profile



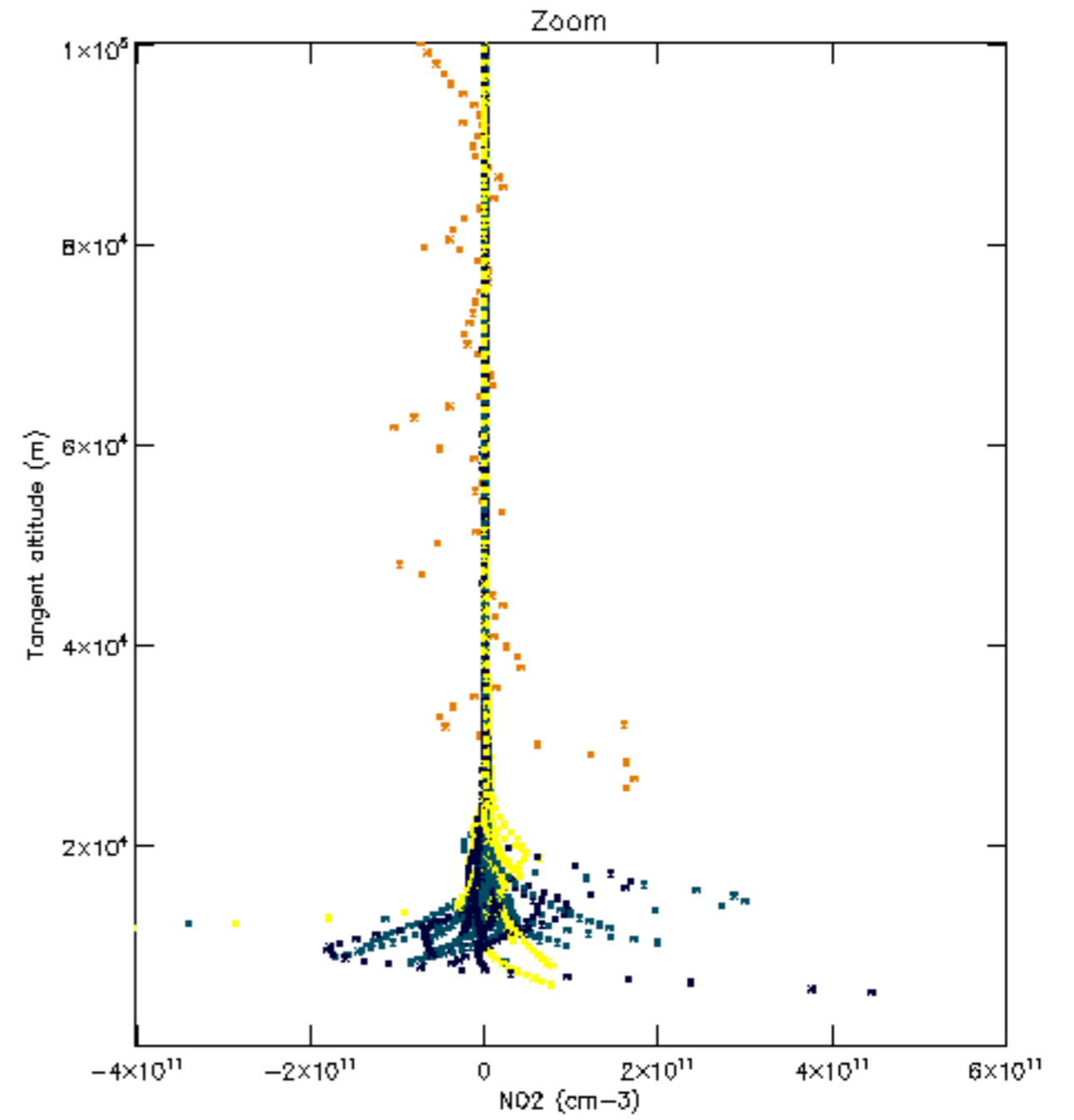
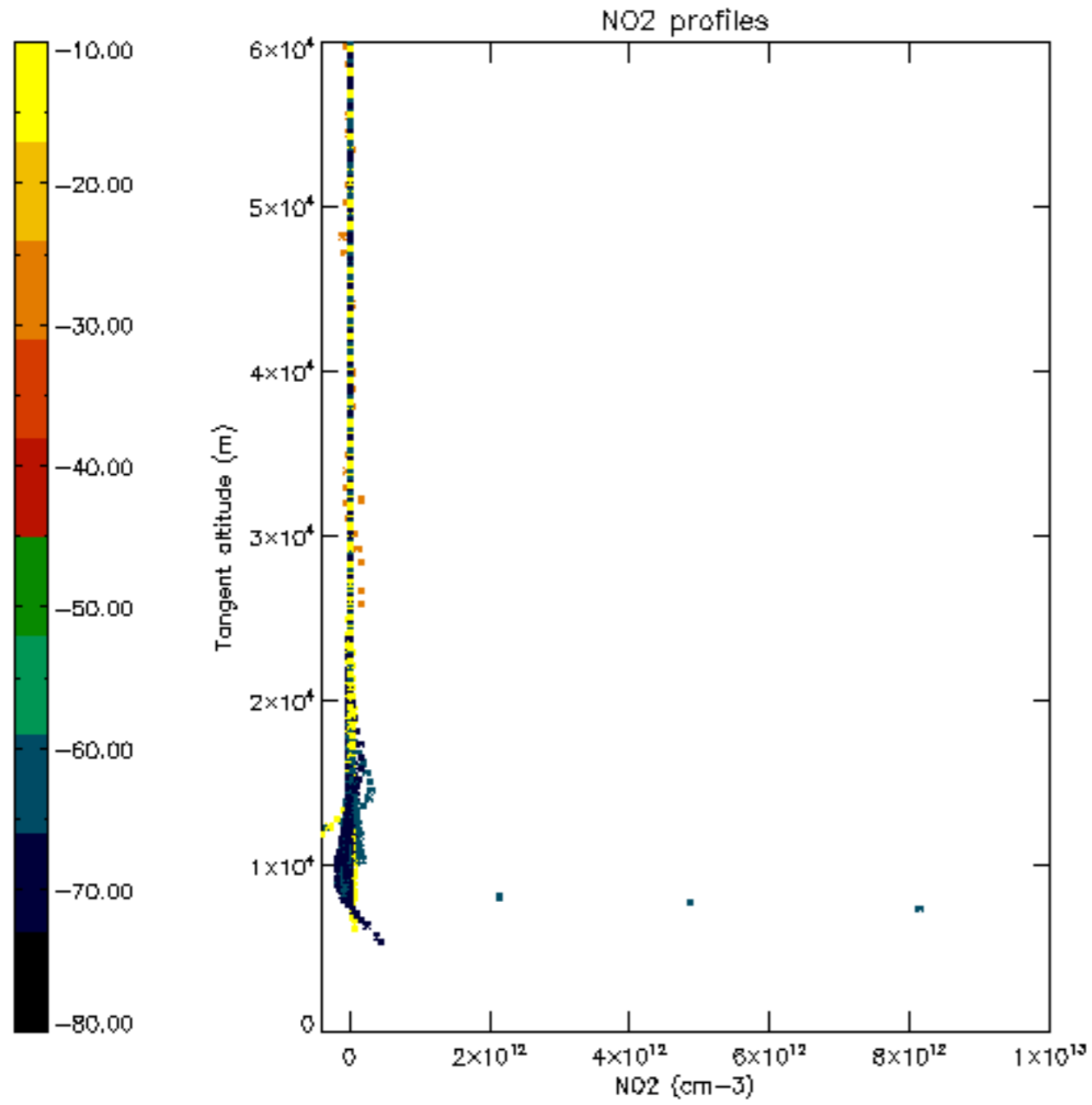


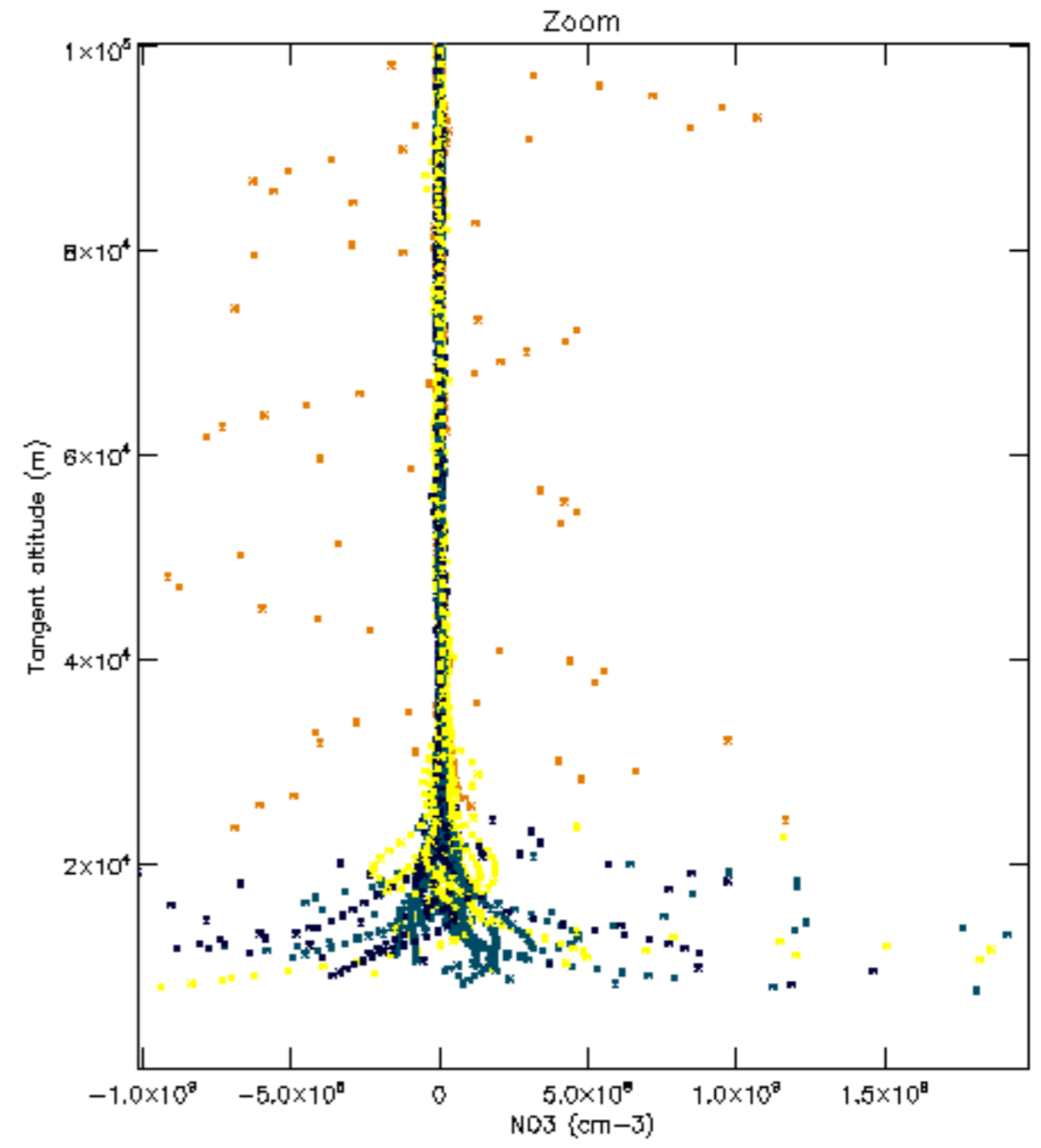
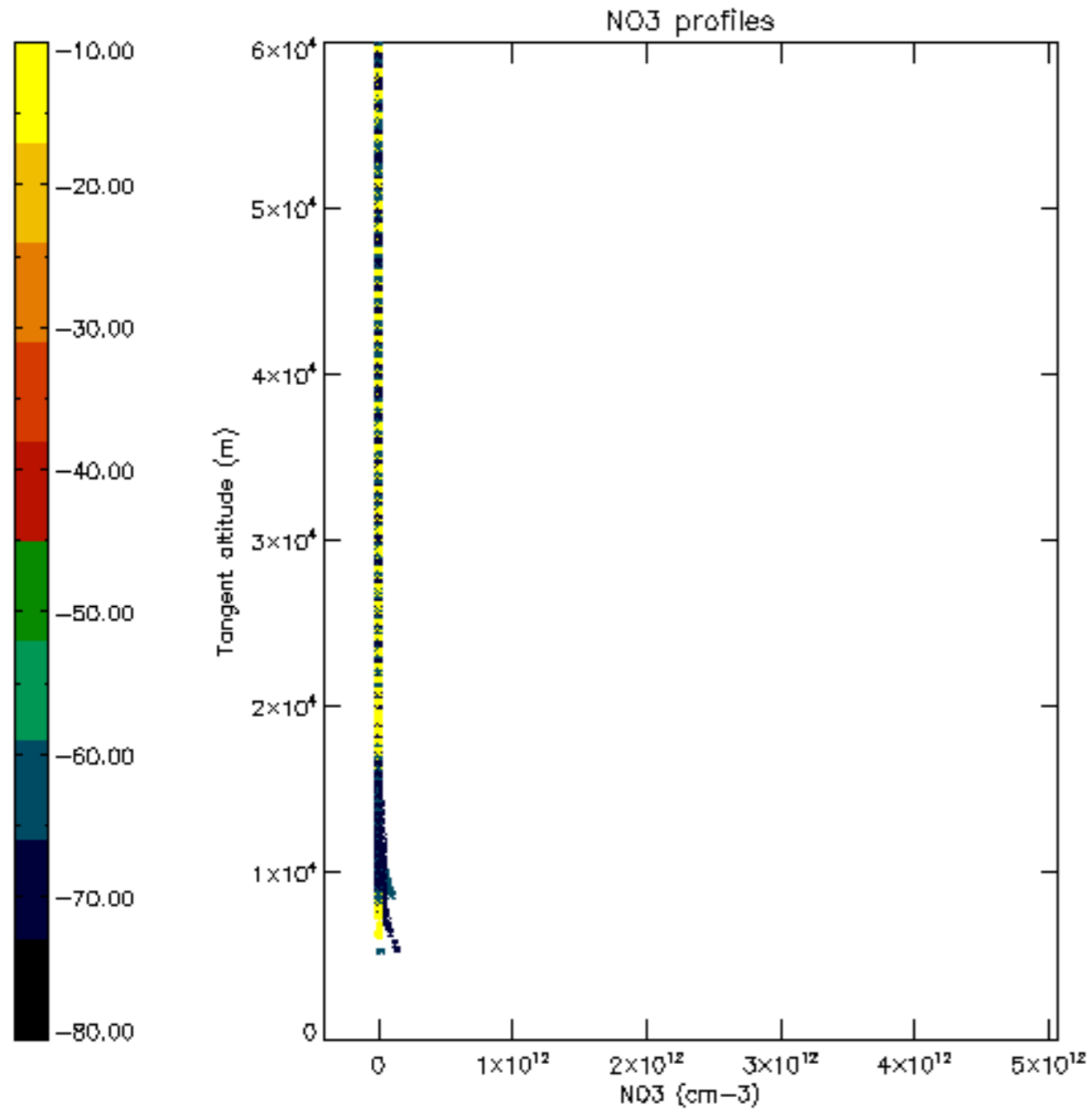


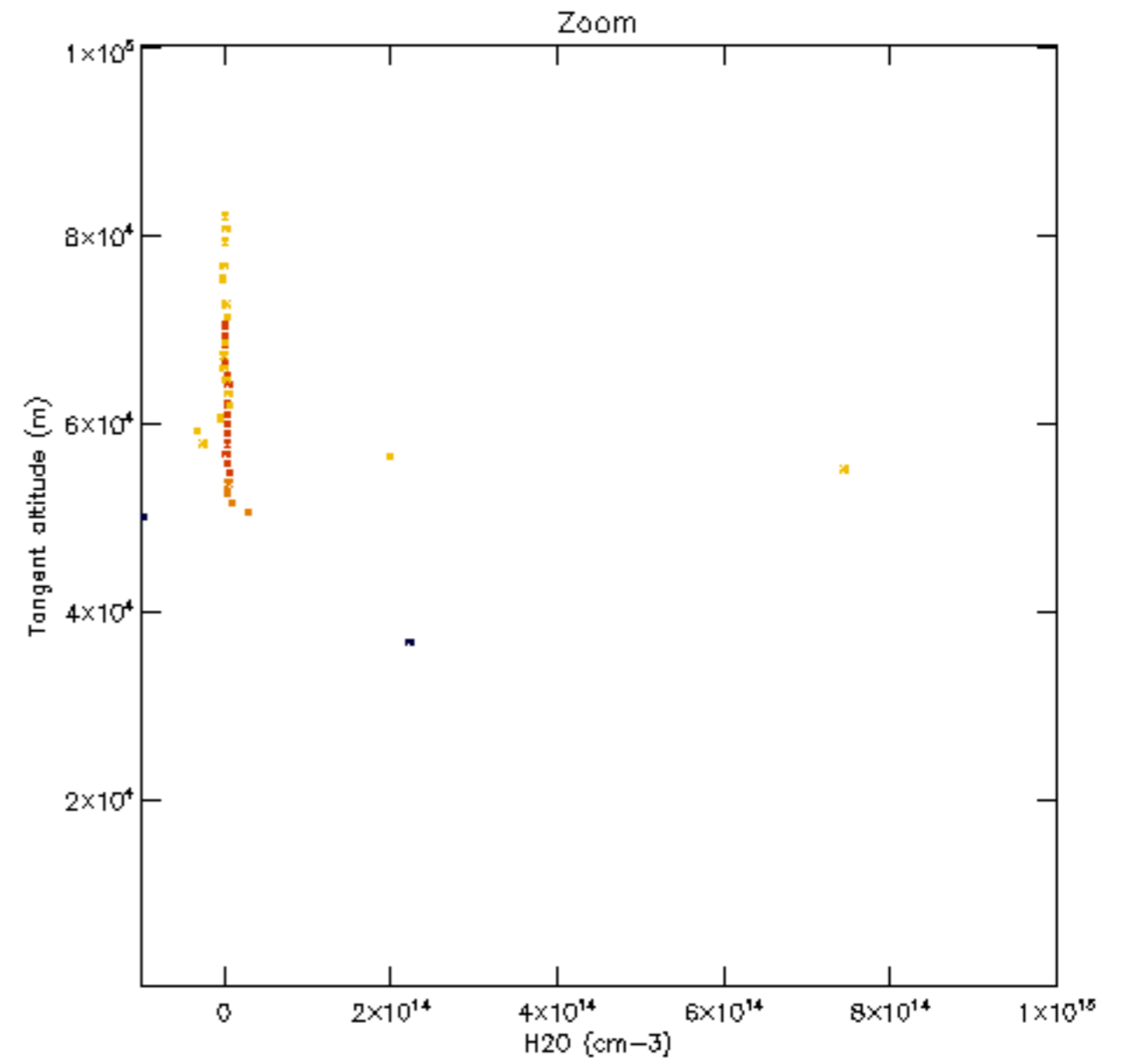
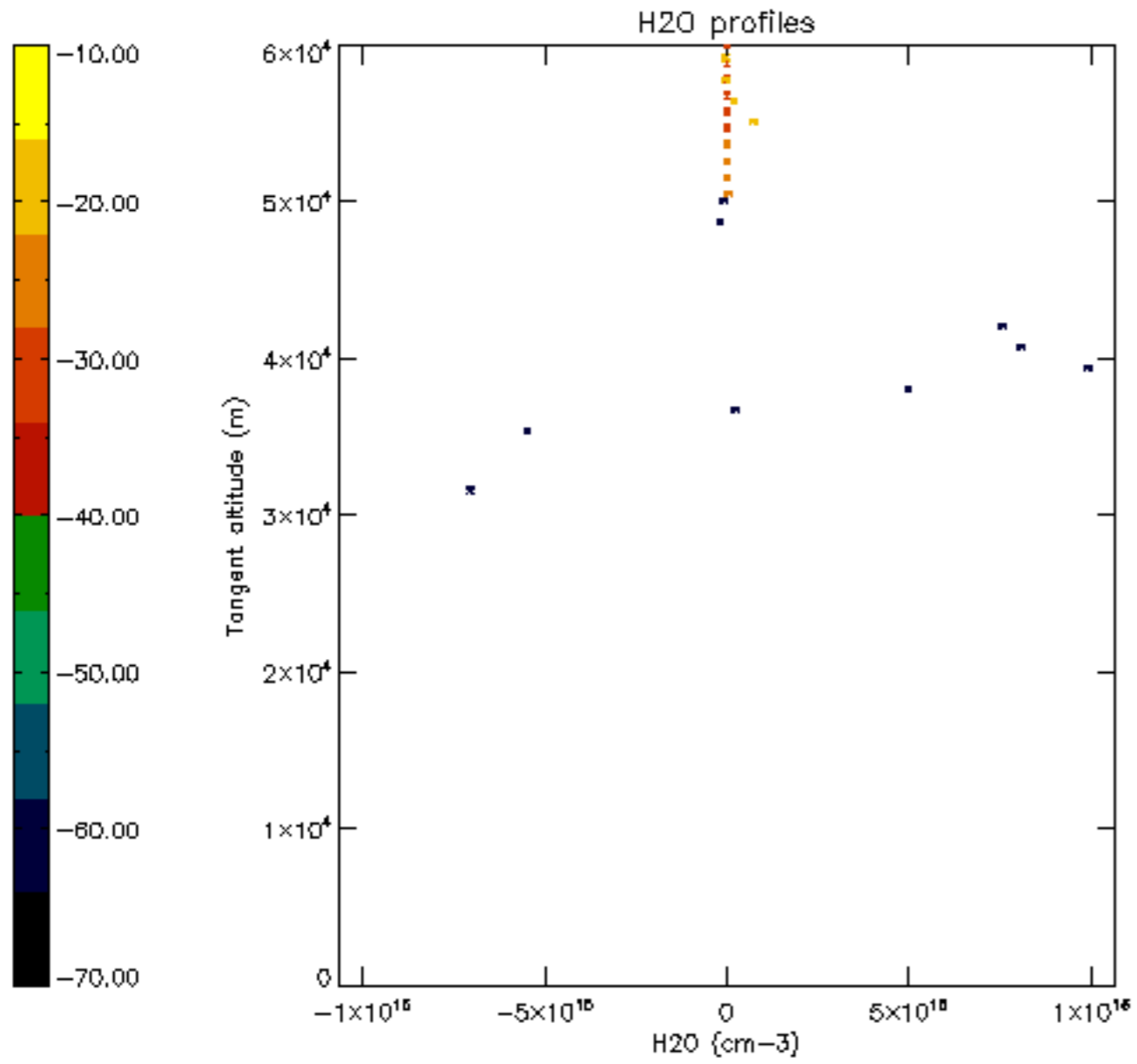


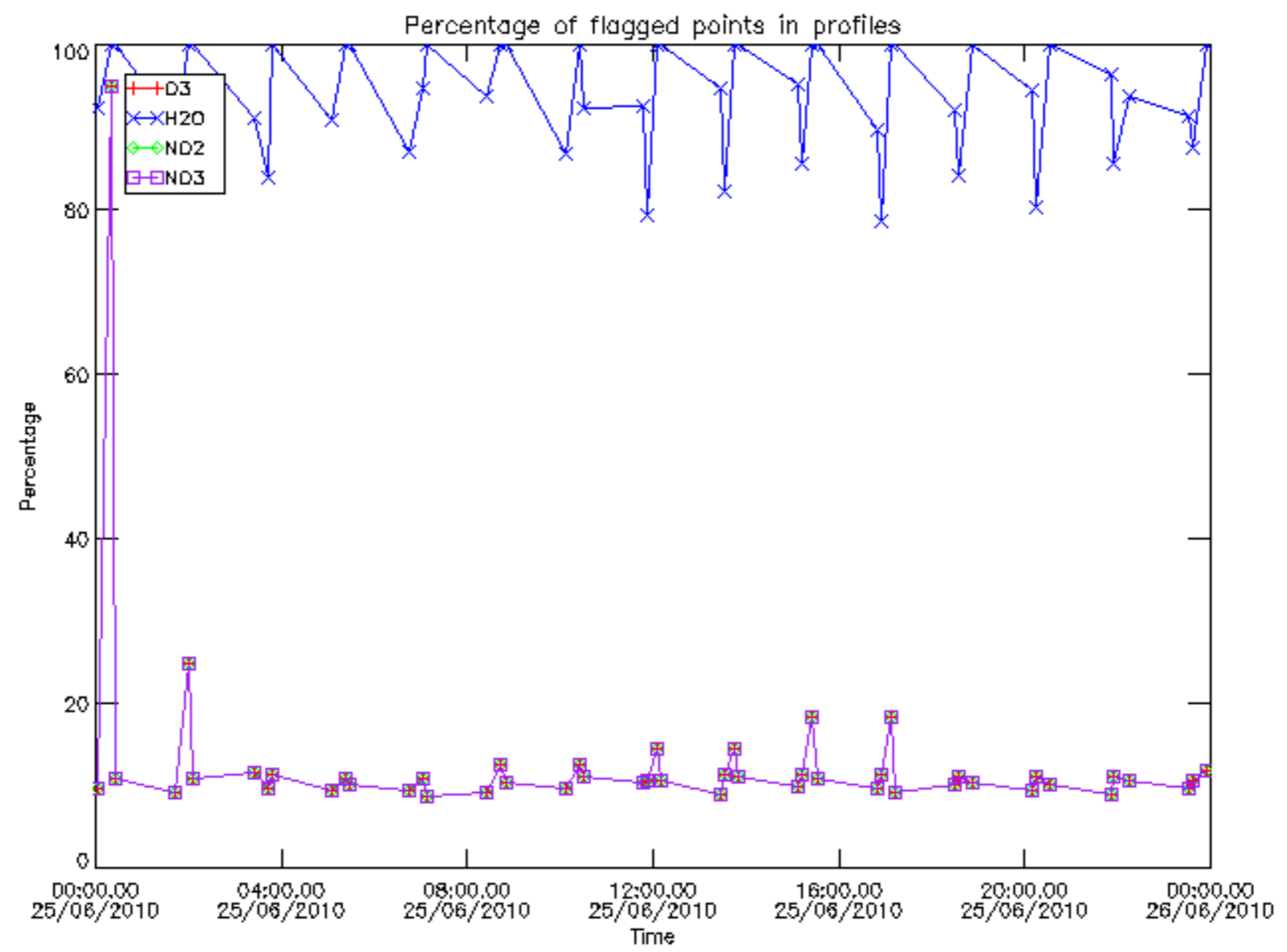




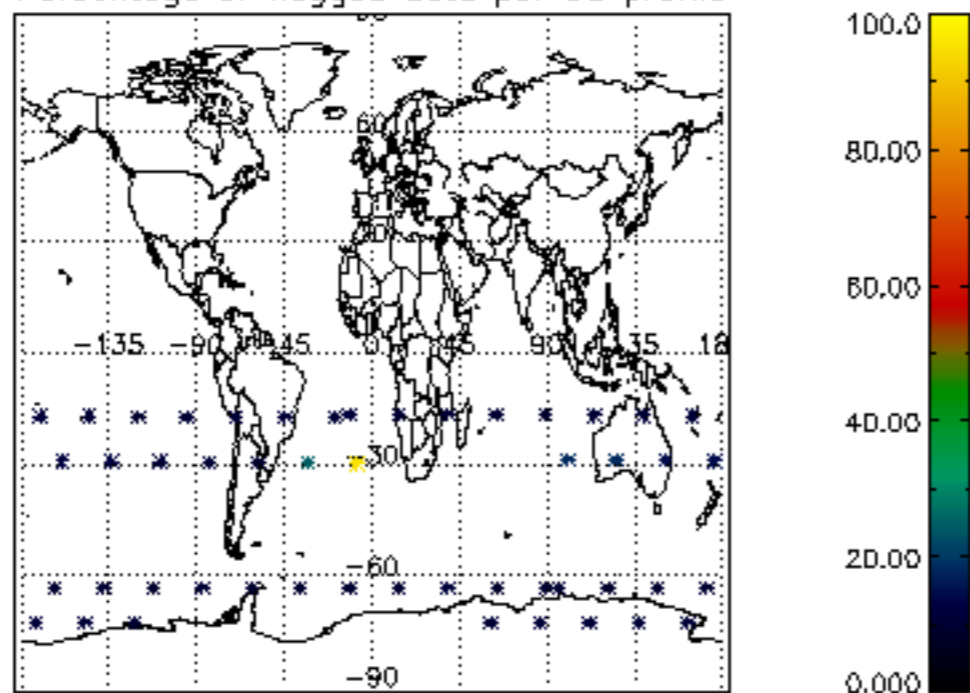




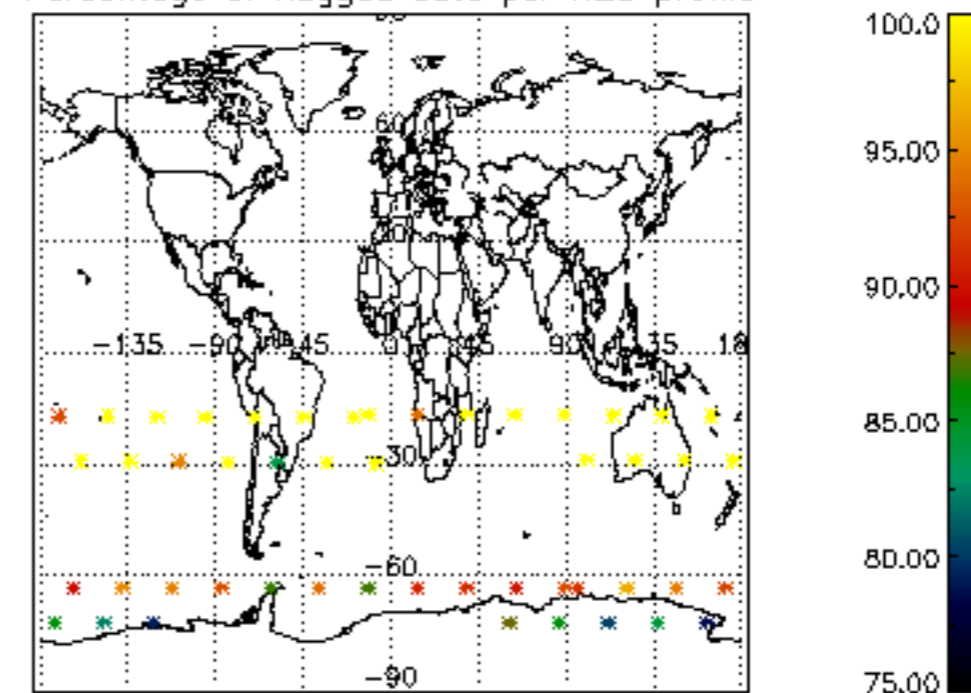




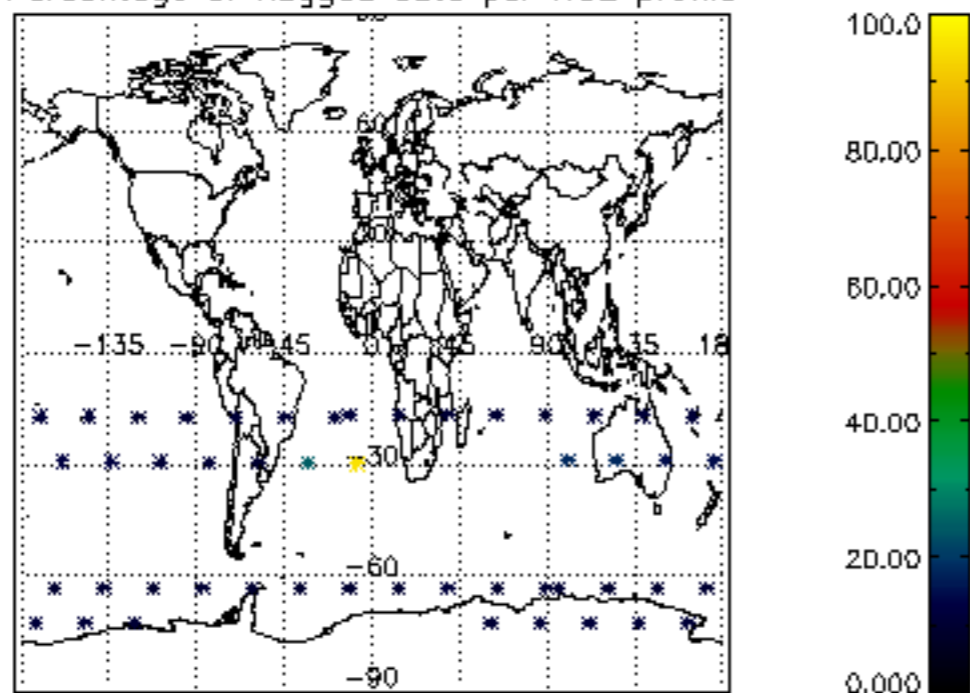
Percentage of flagged data per D3 profile



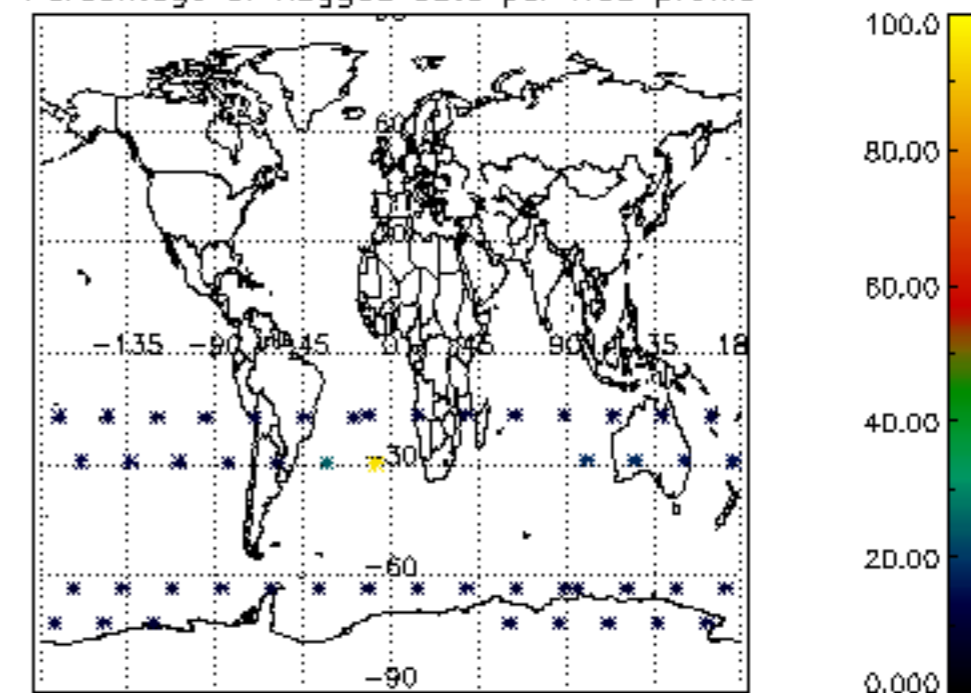
Percentage of flagged data per H2O profile

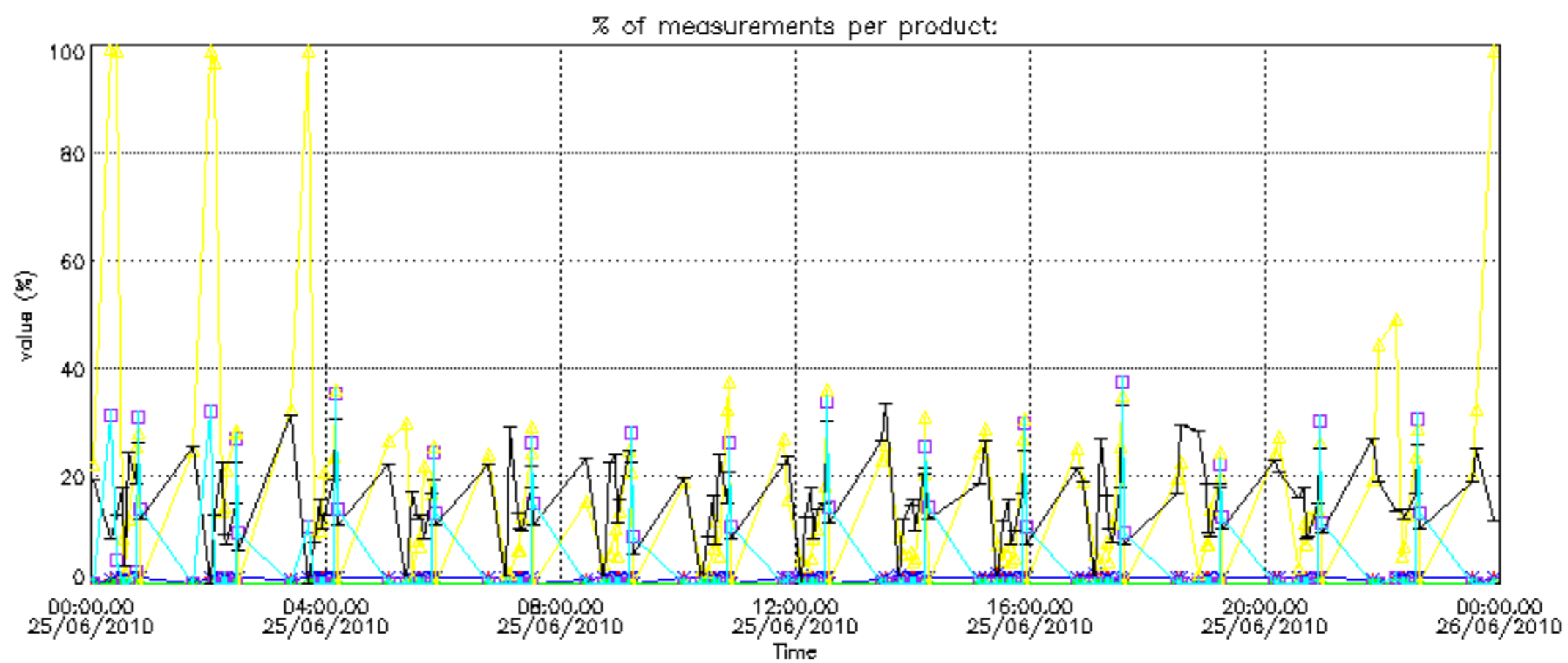


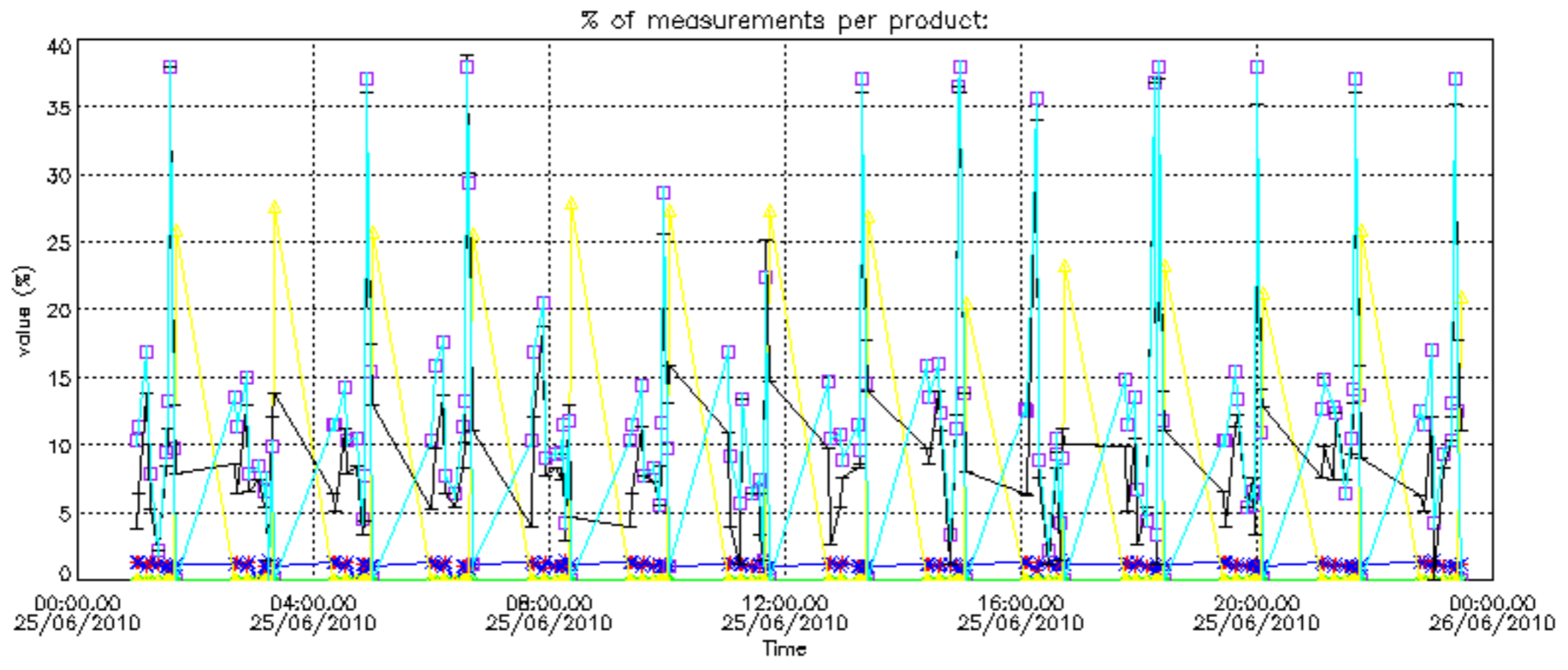
Percentage of flagged data per NO2 profile



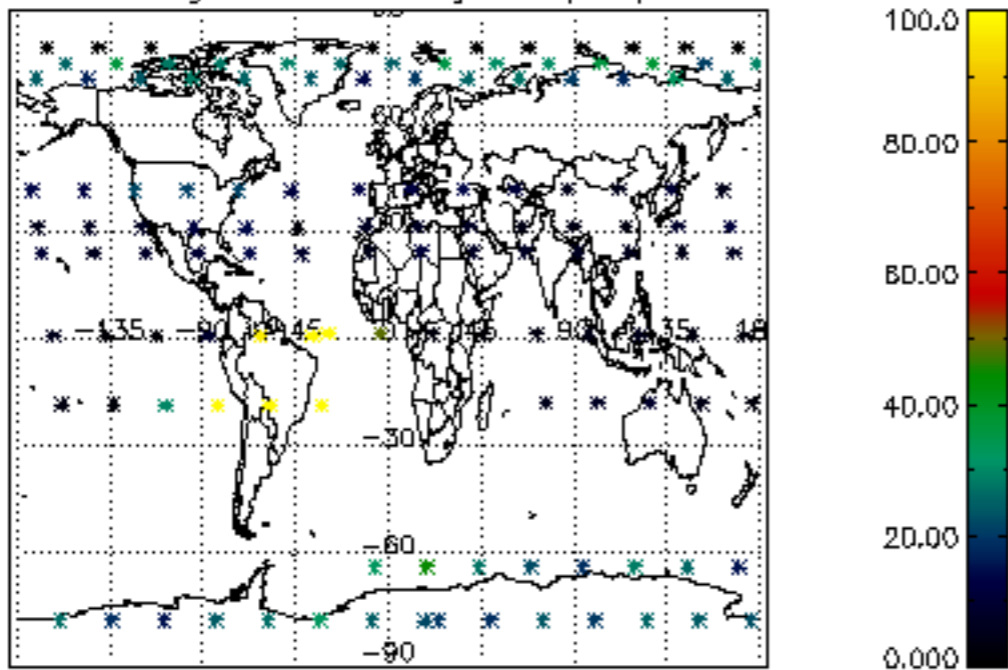
Percentage of flagged data per NO3 profile



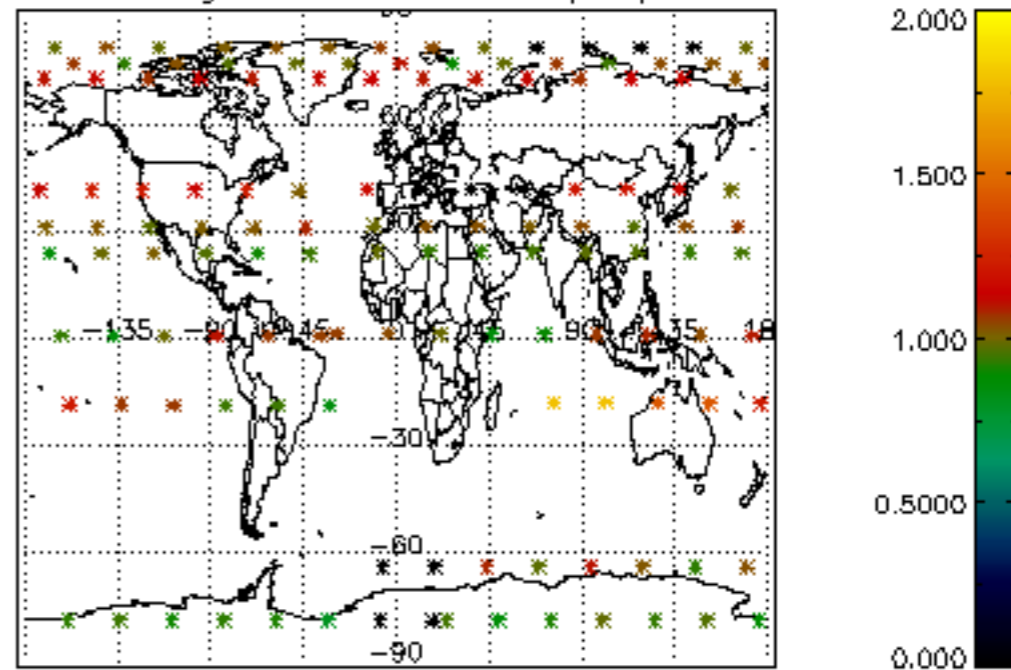




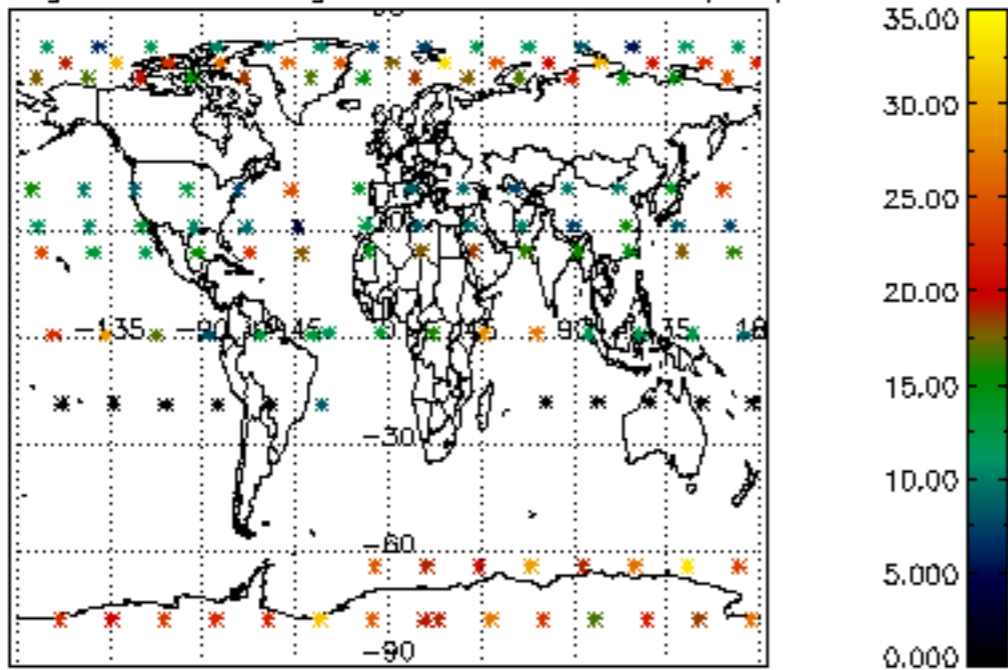
Percentage of cosmic ray hits per profile



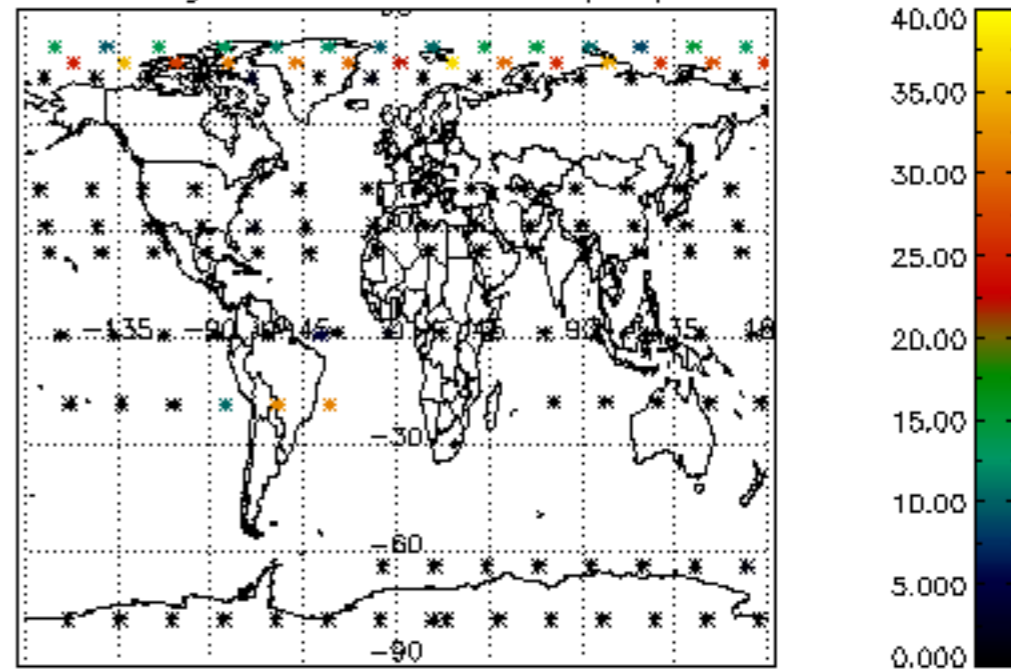
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

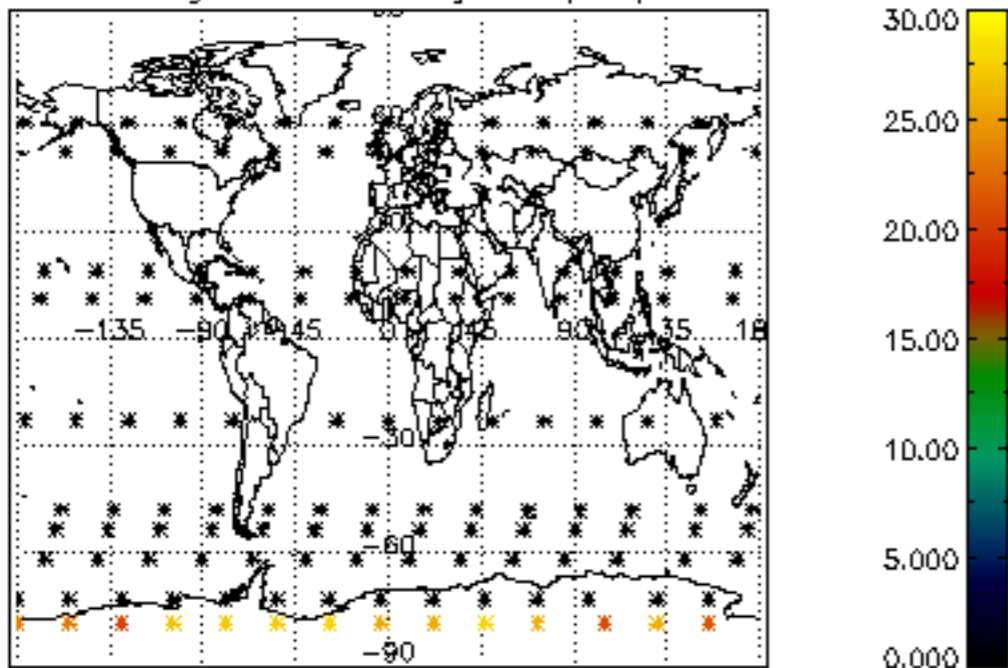


Percentage of saturation errors per profile

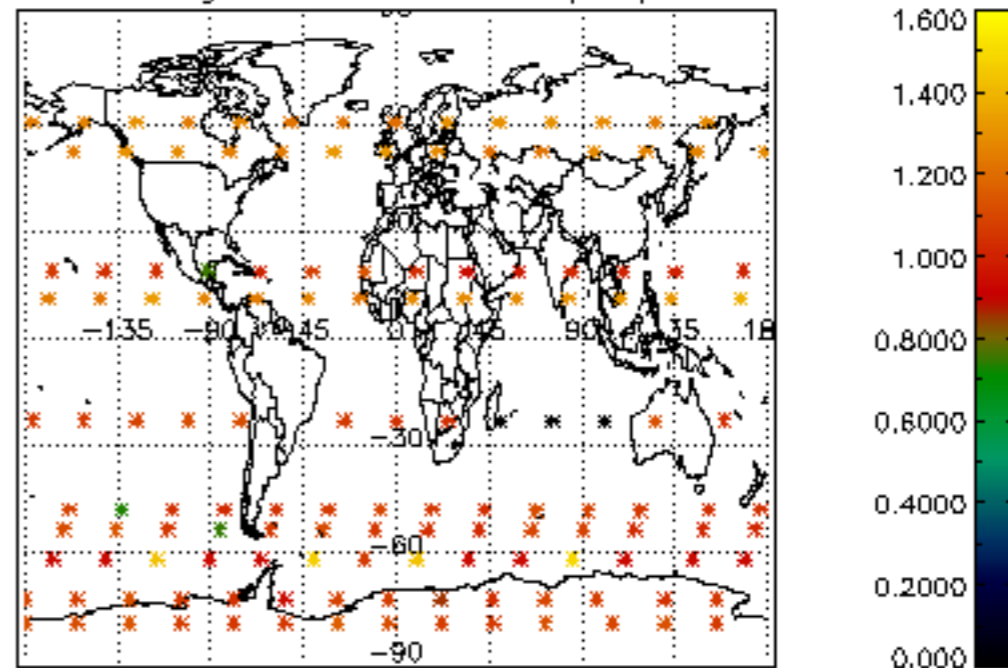




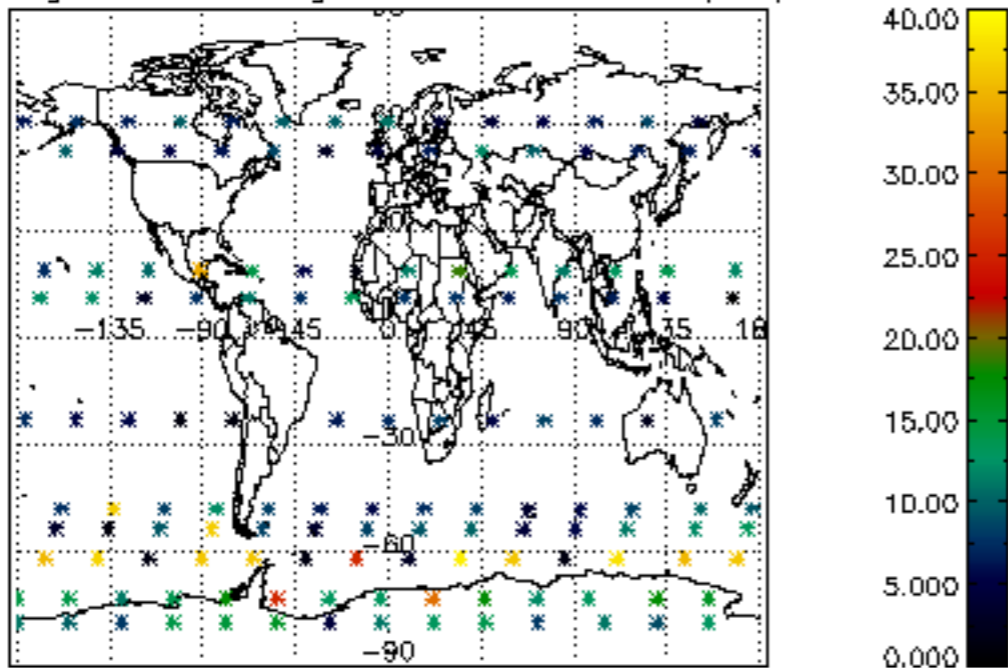
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

