

# 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 04:52:25              |
| Data source version       | GOMOS/6.01                      |
| Start time of products    | 11-10-2006 (11OCT2006 00:00:00) |
| Stop time of products     | 12-10-2006 (12OCT2006 00:00:00) |
| Store outputs in DB       | Yes                             |
| Nb of level 2 prods       | 270                             |
| 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__2PRFIN20061011_000551_000000302052_00016_24118_2542.N1 | 11-OCT-2006 00:05:51 | Bright     | 29.500   | 49      | 1Alp UMi  | 1.9900   | 6300.0    | 59      | 24118 | No          |
| 2  | GOM_NL__2PRFIN20061011_001401_000000312052_00016_24118_2543.N1 | 11-OCT-2006 00:14:01 | Bright     | 31.000   | 36      | 50Alp UMa | 1.8000   | 6300.0    | 62      | 24118 | No          |
| 3  | GOM_NL__2PRFIN20061011_001533_000000312052_00016_24118_2544.N1 | 11-OCT-2006 00:15:33 | Bright     | 31.000   | 82      | 48Bet UMa | 2.3650   | 10600.    | 62      | 24118 | No          |
| 4  | GOM_NL__2PRFIN20061011_001852_000000282052_00016_24118_2545.N1 | 11-OCT-2006 00:18:52 | Bright     | 27.500   | 174     | 52Psi UMa | 3.0040   | 4400.0    | 55      | 24118 | No          |
| 5  | GOM_NL__2PRFIN20061011_002541_000000322052_00016_24118_2546.N1 | 11-OCT-2006 00:25:41 | Bright     | 31.500   | 166     | 17Eps Leo | 2.9800   | 6000.0    | 63      | 24118 | No          |
| 6  | GOM_NL__2PRFIN20061011_002851_000000332052_00016_24118_2547.N1 | 11-OCT-2006 00:28:51 | Bright     | 32.500   | 22      | 32Alp Leo | 1.3600   | 15200.    | 65      | 24118 | No          |
| 7  | GOM_NL__2PRFIN20061011_003553_000000462052_00016_24118_2548.N1 | 11-OCT-2006 00:35:53 | Twilight   | 45.500   | 48      | 30Alp Hya | 1.9770   | 4100.0    | 91      | 24118 | No          |
| 8  | GOM_NL__2PRFIN20061011_004530_000000382052_00016_24118_2549.N1 | 11-OCT-2006 00:45:30 | Dark       | 38.000   | 65      | Lam Vel   | 2.2040   | 4400.0    | 76      | 24118 | No          |
| 9  | GOM_NL__2PRFIN20061011_004829_000000362052_00016_24118_2550.N1 | 11-OCT-2006 00:48:29 | Dark       | 35.500   | 34      | Gam2Vel   | 1.7930   | 23000.    | 71      | 24118 | No          |
| 10 | GOM_NL__2PRFIN20061011_005238_000000382052_00017_24119_2548.N1 | 11-OCT-2006 00:52:38 | Dark       | 38.000   | 161     | Tau Pup   | 2.9310   | 4500.0    | 76      | 24119 | No          |
| 11 | GOM_NL__2PRFIN20061011_005401_000000502052_00017_24119_2549.N1 | 11-OCT-2006 00:54:01 | Dark       | 49.500   | 2       | Alp Car   | -0.73600 | 7000.0    | 99      | 24119 | No          |
| 12 | GOM_NL__2PRFIN20061011_010222_000000332052_00017_24119_2550.N1 | 11-OCT-2006 01:02:22 | Dark       | 32.500   | 143     | Alp Hyi   | 2.8570   | 7200.0    | 65      | 24119 | No          |
| 13 | GOM_NL__2PRFIN20061011_010349_000000372052_00017_24119_2551.N1 | 11-OCT-2006 01:03:49 | Dark       | 36.500   | 9       | Alp Eri   | 0.45300  | 24000.    | 73      | 24119 | No          |
| 14 | GOM_NL__2PRFIN20061011_010857_000000352052_00017_24119_2552.N1 | 11-OCT-2006 01:08:57 | Straylight | 35.000   | 84      | Alp Phe   | 2.3970   | 4500.0    | 70      | 24119 | No          |
| 15 | GOM_NL__2PRFIN20061011_011537_000000412052_00017_24119_2553.N1 | 11-OCT-2006 01:15:37 | Straylight | 41.000   | 52      | 16Bet Cet | 2.0370   | 4500.0    | 82      | 24119 | No          |
| 16 | GOM_NL__2PRFIN20061011_012527_000000322052_00017_24119_2554.N1 | 11-OCT-2006 01:25:27 | Bright     | 31.500   | 140     | 88Gam Peg | 2.8340   | 26000.    | 63      | 24119 | No          |
| 17 | GOM_NL__2PRFIN20061011_012928_000000322052_00017_24119_2555.N1 | 11-OCT-2006 01:29:28 | Bright     | 32.000   | 58      | 21Alp And | 2.0730   | 11000.    | 64      | 24119 | No          |
| 18 | GOM_NL__2PRFIN20061011_013742_000000312052_00017_24119_2556.N1 | 11-OCT-2006 01:37:42 | Bright     | 31.000   | 68      | 18Alp Cas | 2.2250   | 4500.0    | 62      | 24119 | No          |
| 19 | GOM_NL__2PRFIN20061011_013905_000000322052_00017_24119_2557.N1 | 11-OCT-2006 01:39:05 | Bright     | 32.000   | 76      | 27Gam Cas | 2.3000   | 30000.    | 64      | 24119 | No          |
| 20 | GOM_NL__2PRFIN20061011_014627_000000302052_00017_24119_2558.N1 | 11-OCT-2006 01:46:27 | Bright     | 29.500   | 49      | 1Alp UMi  | 1.9900   | 6300.0    | 59      | 24119 | No          |
| 21 | GOM_NL__2PRFIN20061011_015437_000000312052_00017_24119_2559.N1 | 11-OCT-2006 01:54:37 | Bright     | 31.000   | 36      | 50Alp UMa | 1.8000   | 6300.0    | 62      | 24119 | No          |
| 22 | GOM_NL__2PRFIN20061011_015609_000000302052_00017_24119_2560.N1 | 11-OCT-2006 01:56:09 | Bright     | 30.000   | 82      | 48Bet UMa | 2.3650   | 10600.    | 60      | 24119 | No          |
| 23 | GOM_NL__2PRFIN20061011_015928_000000292052_00017_24119_2561.N1 | 11-OCT-2006 01:59:28 | Bright     | 28.500   | 174     | 52Psi UMa | 3.0040   | 4400.0    | 57      | 24119 | No          |
| 24 | GOM_NL__2PRFIN20061011_020618_000000492052_00017_24119_2562.N1 | 11-OCT-2006 02:06:18 | Bright     | 49.000   | 166     | 17Eps Leo | 2.9800   | 6000.0    | 98      | 24119 | No          |
| 25 | GOM_NL__2PRFIN20061011_020928_000000332052_00017_24119_2563.N1 | 11-OCT-2006 02:09:28 | Bright     | 33.000   | 22      | 32Alp Leo | 1.3600   | 15200.    | 66      | 24119 | No          |
| 26 | GOM_NL__2PRFIN20061011_021630_000000482052_00017_24119_2564.N1 | 11-OCT-2006 02:16:30 | Twilight   | 47.500   | 48      | 30Alp Hya | 1.9770   | 4100.0    | 95      | 24119 | No          |
| 27 | GOM_NL__2PRFIN20061011_022606_000000382052_00017_24119_2565.N1 | 11-OCT-2006 02:26:06 | Dark       | 37.500   | 65      | Lam Vel   | 2.2040   | 4400.0    | 75      | 24119 | No          |
| 28 | GOM_NL__2PRFIN20061011_022906_000000352052_00017_24119_2566.N1 | 11-OCT-2006 02:29:06 | Dark       | 35.000   | 34      | Gam2Vel   | 1.7930   | 23000.    | 70      | 24119 | No          |
| 29 | GOM_NL__2PRFIN20061011_023314_000000372052_00018_24120_2548.N1 | 11-OCT-2006 02:33:14 | Dark       | 37.000   | 161     | Tau Pup   | 2.9310   | 4500.0    | 74      | 24120 | No          |
| 30 | GOM_NL__2PRFIN20061011_023437_000000422052_00018_24120_2549.N1 | 11-OCT-2006 02:34:37 | Dark       | 41.500   | 2       | Alp Car   | -0.73600 | 7000.0    | 83      | 24120 | No          |
| 31 | GOM_NL__2PRFIN20061011_024258_000000342052_00018_24120_2550.N1 | 11-OCT-2006 02:42:58 | Dark       | 33.500   | 143     | Alp Hyi   | 2.8570   | 7200.0    | 67      | 24120 | No          |
| 32 | GOM_NL__2PRFIN20061011_024425_000000382052_00018_24120_2551.N1 | 11-OCT-2006 02:44:25 | Dark       | 37.500   | 9       | Alp Eri   | 0.45300  | 24000.    | 75      | 24120 | No          |
| 33 | GOM_NL__2PRFIN20061011_024933_000000342052_00018_24120_2552.N1 | 11-OCT-2006 02:49:33 | Straylight | 34.000   | 84      | Alp Phe   | 2.3970   | 4500.0    | 68      | 24120 | No          |
| 34 | GOM_NL__2PRFIN20061011_025614_000000402052_00018_24120_2553.N1 | 11-OCT-2006 02:56:14 | Straylight | 39.500   | 52      | 16Bet Cet | 2.0370   | 4500.0    | 79      | 24120 | No          |
| 35 | GOM_NL__2PRFIN20061011_030603_000000322052_00018_24120_2554.N1 | 11-OCT-2006 03:06:03 | Bright     | 31.500   | 140     | 88Gam Peg | 2.8340   | 26000.    | 63      | 24120 | No          |
| 36 | GOM_NL__2PRFIN20061011_031004_000000312052_00018_24120_2555.N1 | 11-OCT-2006 03:10:04 | Bright     | 31.000   | 58      | 21Alp And | 2.0730   | 11000.    | 62      | 24120 | No          |
| 37 | GOM_NL__2PRFIN20061011_031817_000000312052_00018_24120_2556.N1 | 11-OCT-2006 03:18:17 | Bright     | 31.000   | 68      | 18Alp Cas | 2.2250   | 4500.0    | 62      | 24120 | No          |
| 38 | GOM_NL__2PRFIN20061011_031941_000000322052_00018_24120_2557.N1 | 11-OCT-2006 03:19:41 | Bright     | 32.000   | 76      | 27Gam Cas | 2.3000   | 30000.    | 64      | 24120 | No          |
| 39 | GOM_NL__2PRFIN20061011_032703_000000292052_00018_24120_2558.N1 | 11-OCT-2006 03:27:03 | Bright     | 29.000   | 49      | 1Alp UMi  | 1.9900   | 6300.0    | 58      | 24120 | No          |
| 40 | GOM_NL__2PRFIN20061011_033513_000000302052_00018_24120_2559.N1 | 11-OCT-2006 03:35:13 | Bright     | 30.000   | 36      | 50Alp UMa | 1.8000   | 6300.0    | 60      | 24120 | No          |
| 41 | GOM_NL__2PRFIN20061011_033645_000000282052_00018_24120_2560.N1 | 11-OCT-2006 03:36:45 | Bright     | 28.000   | 82      | 48Bet UMa | 2.3650   | 10600.    | 56      | 24120 | No          |
| 42 | GOM_NL__2PRFIN20061011_034005_000000282052_00018_24120_2561.N1 | 11-OCT-2006 03:40:05 | Bright     | 28.000   | 174     | 52Psi UMa | 3.0040   | 4400.0    | 56      | 24120 | No          |

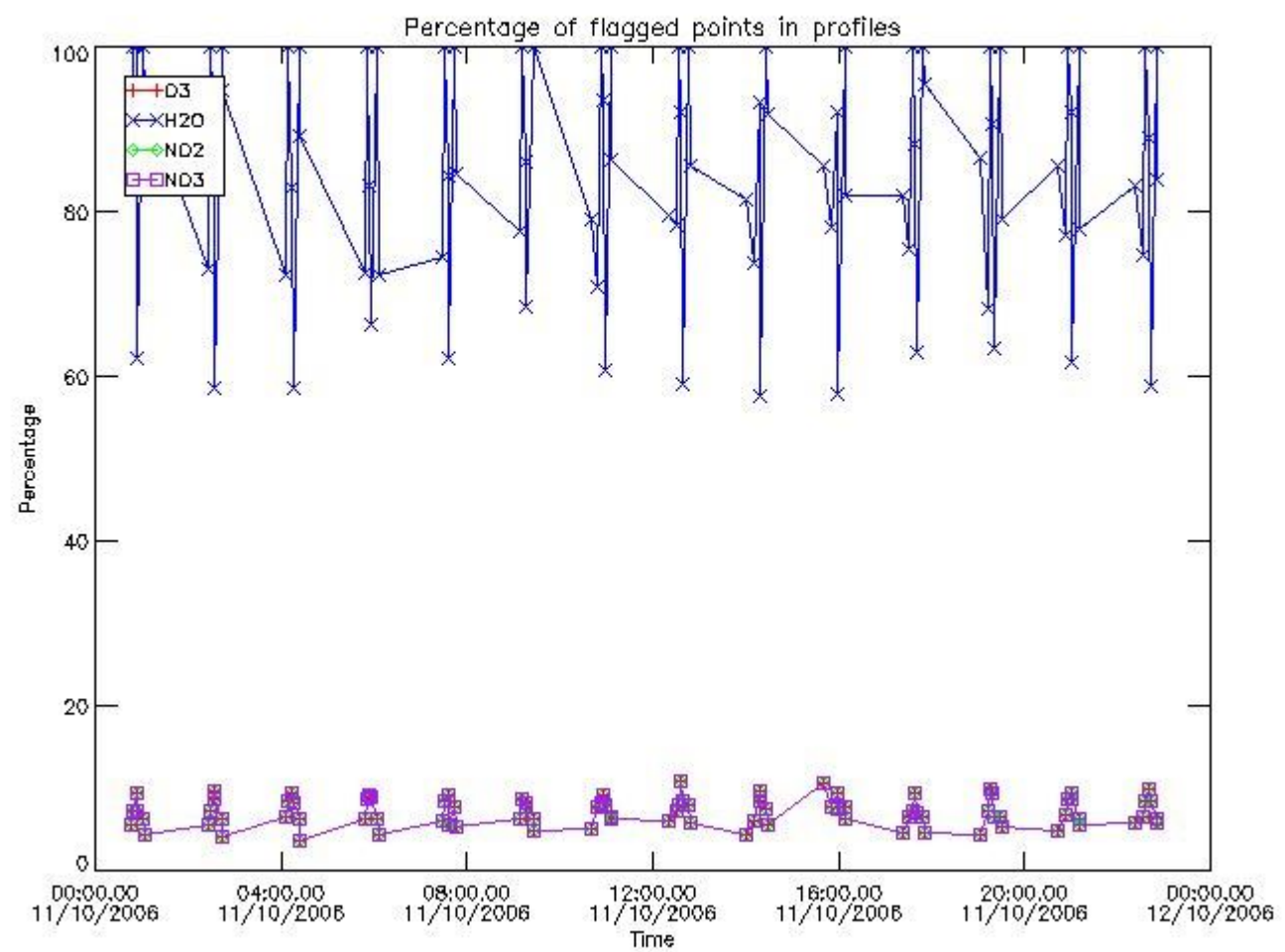






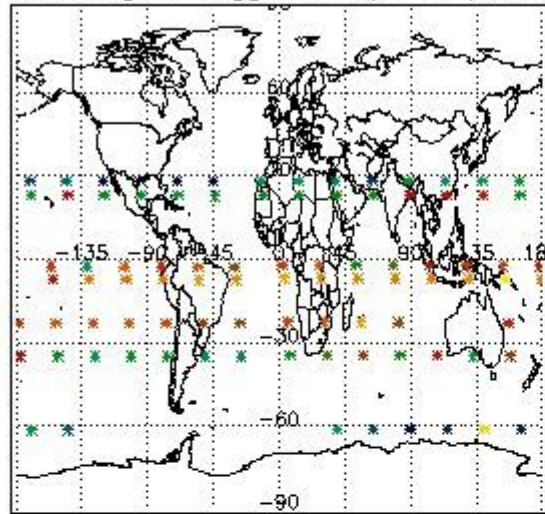


3.1 Plot quality information per product (time dependant)

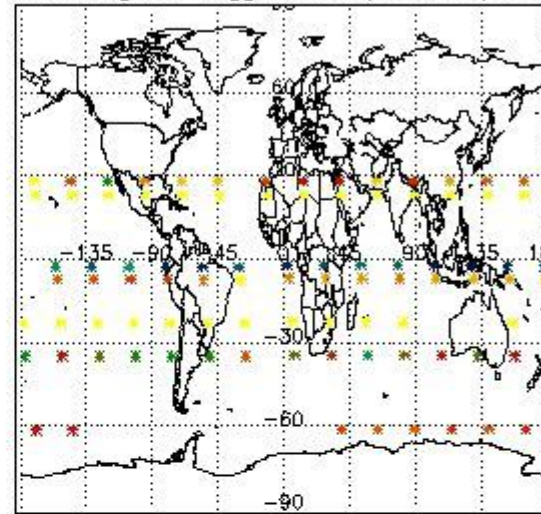


3.2 Plot quality information per product (world map)

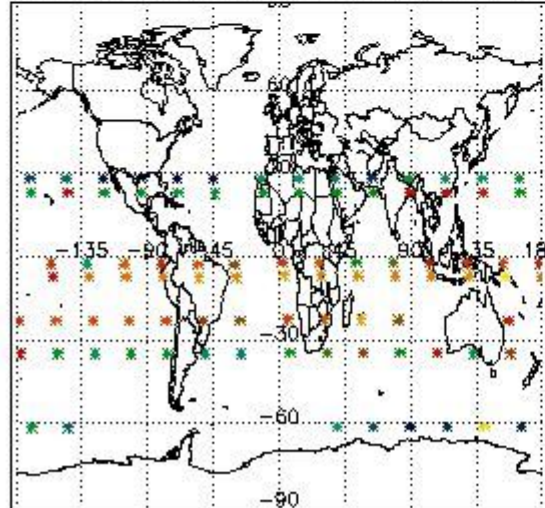
Percentage of flagged data per O3 profile



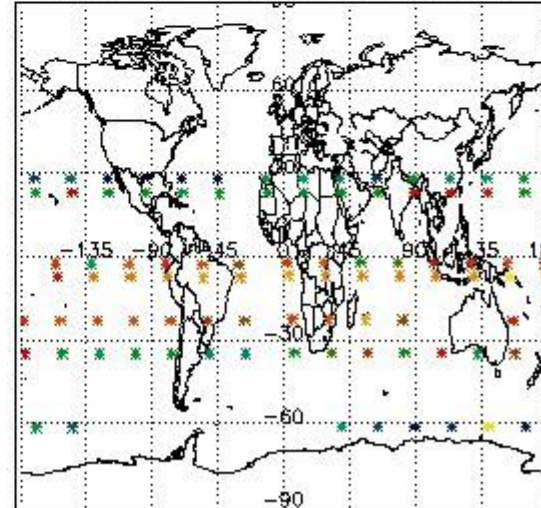
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



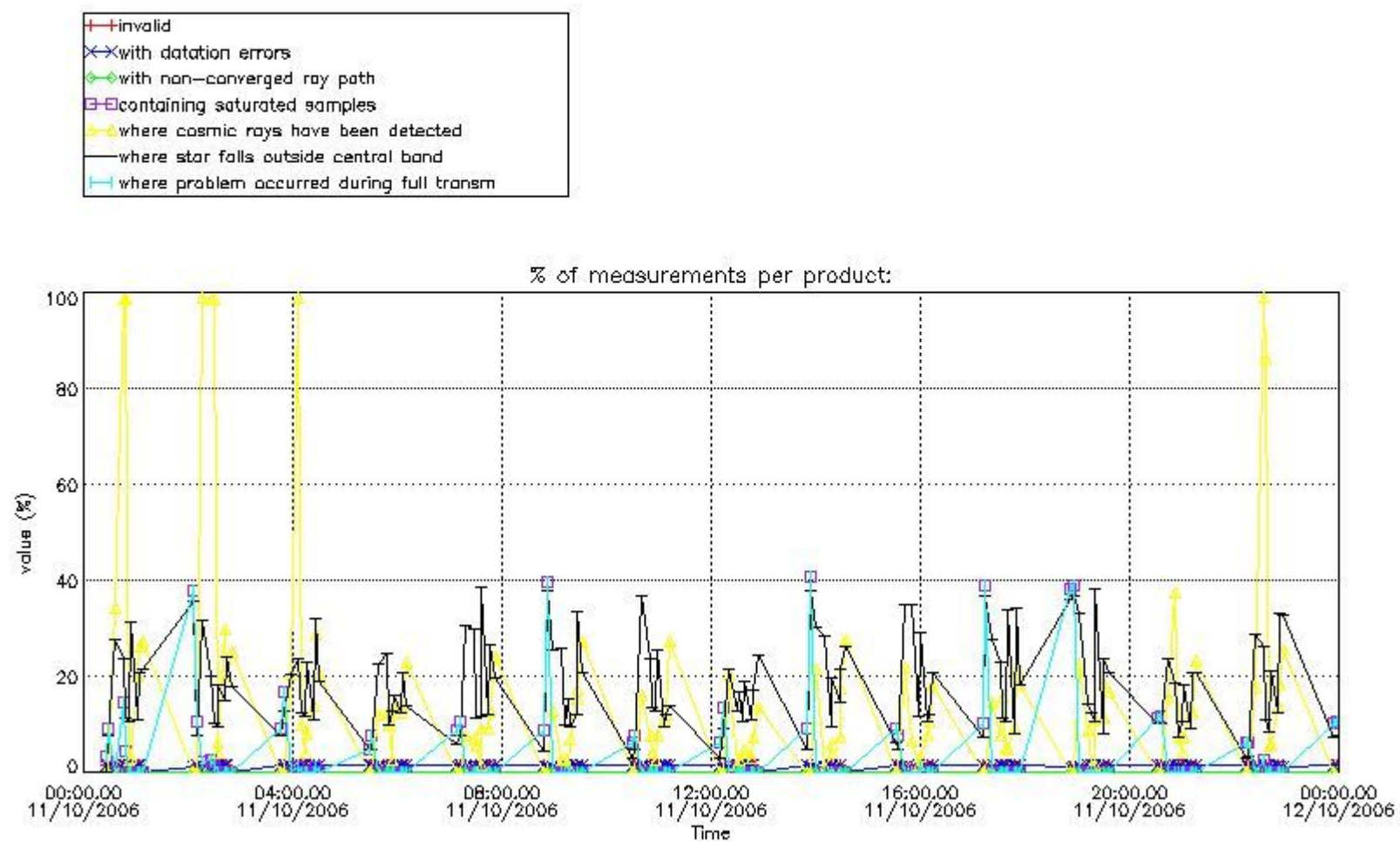
#### 4. Level 1 quality information per product

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.

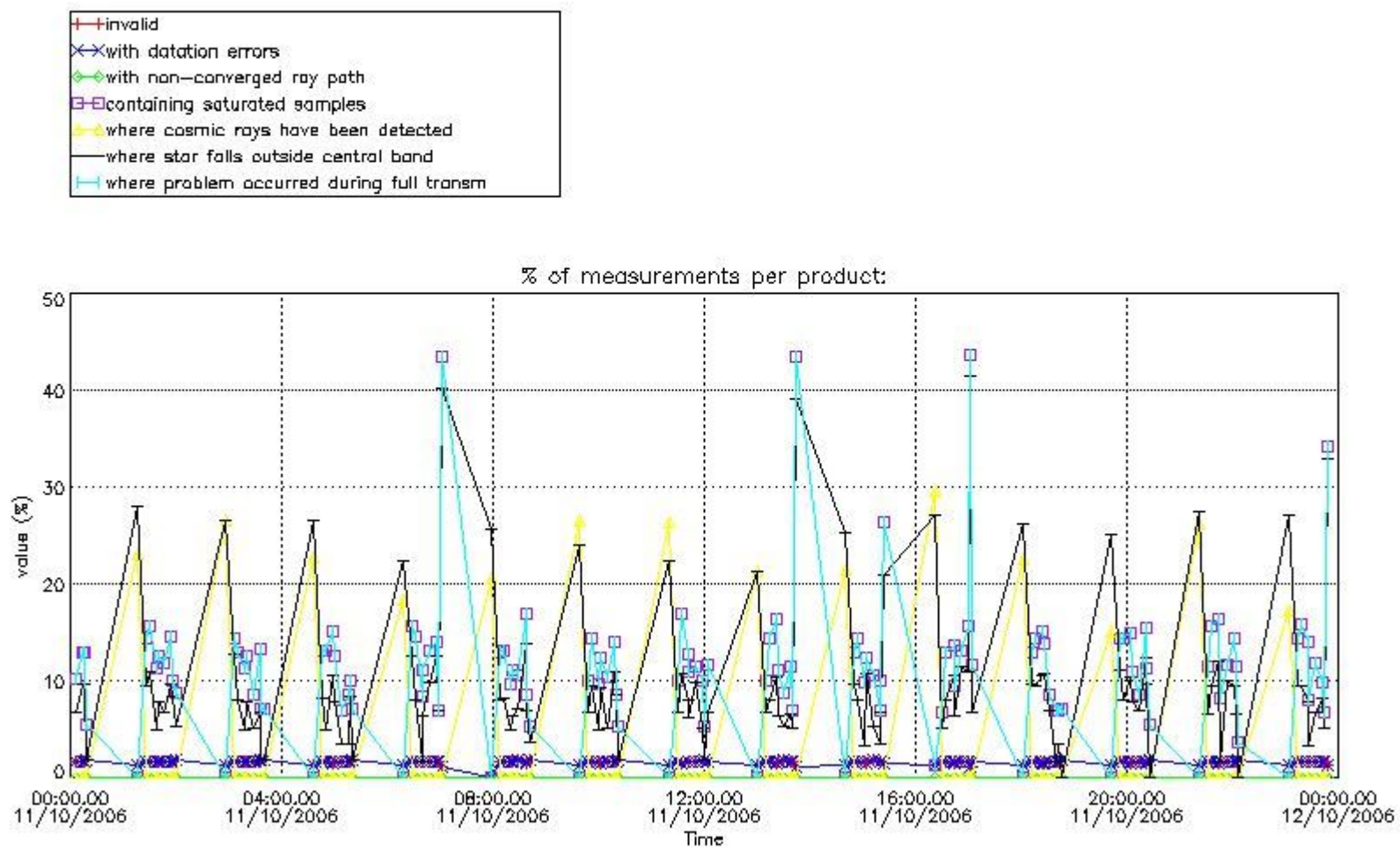
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

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





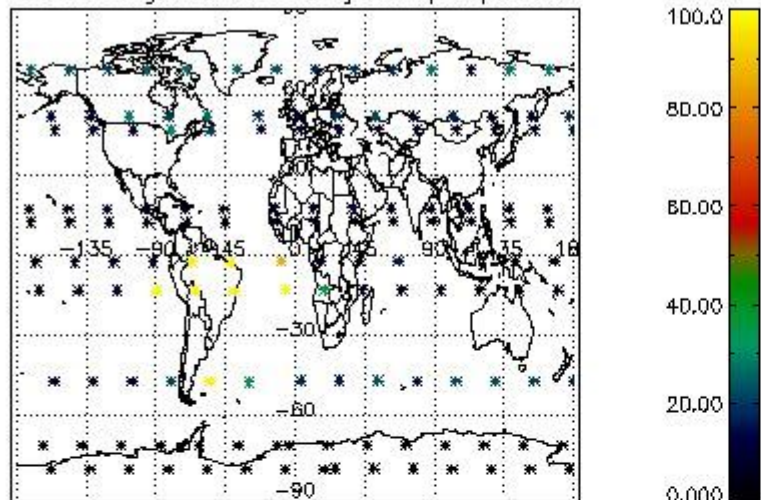
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



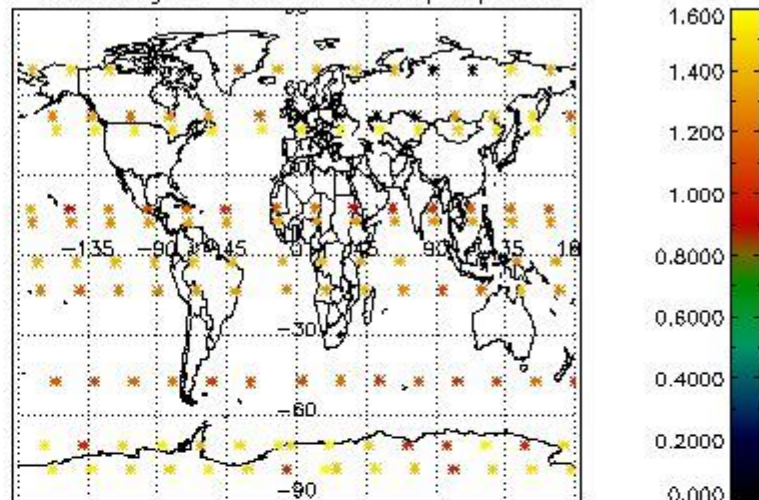
4.2 Plot quality information per product coming from level 1b processing (world map)

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

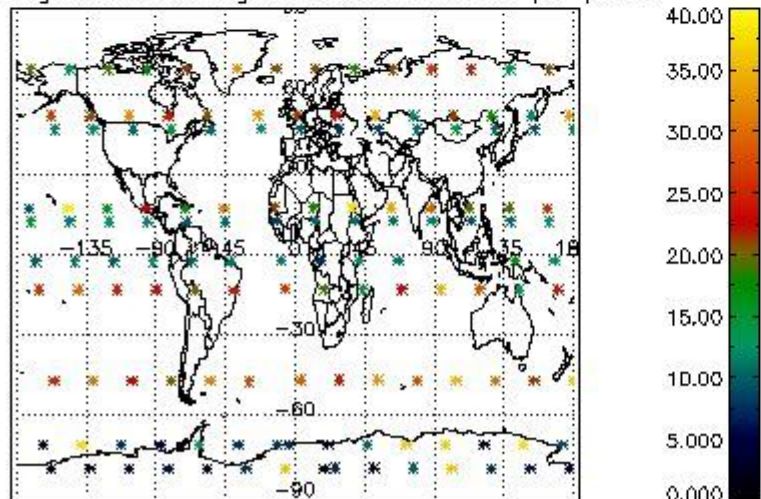
Percentage of cosmic ray hits per profile



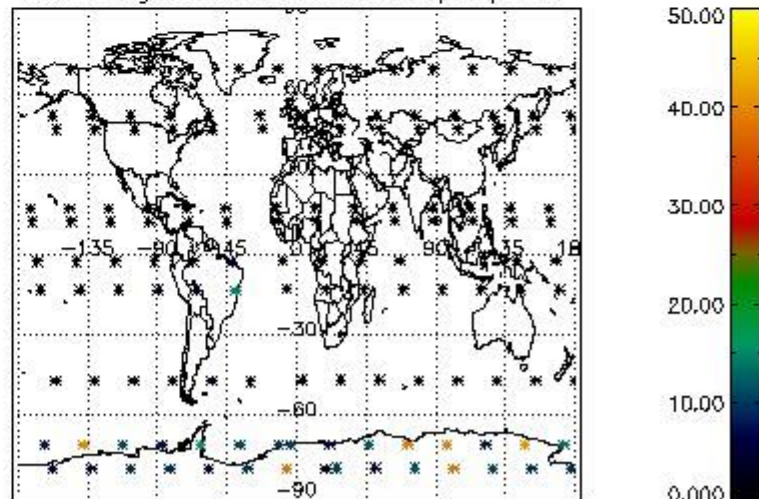
Percentage of datation errors per profile



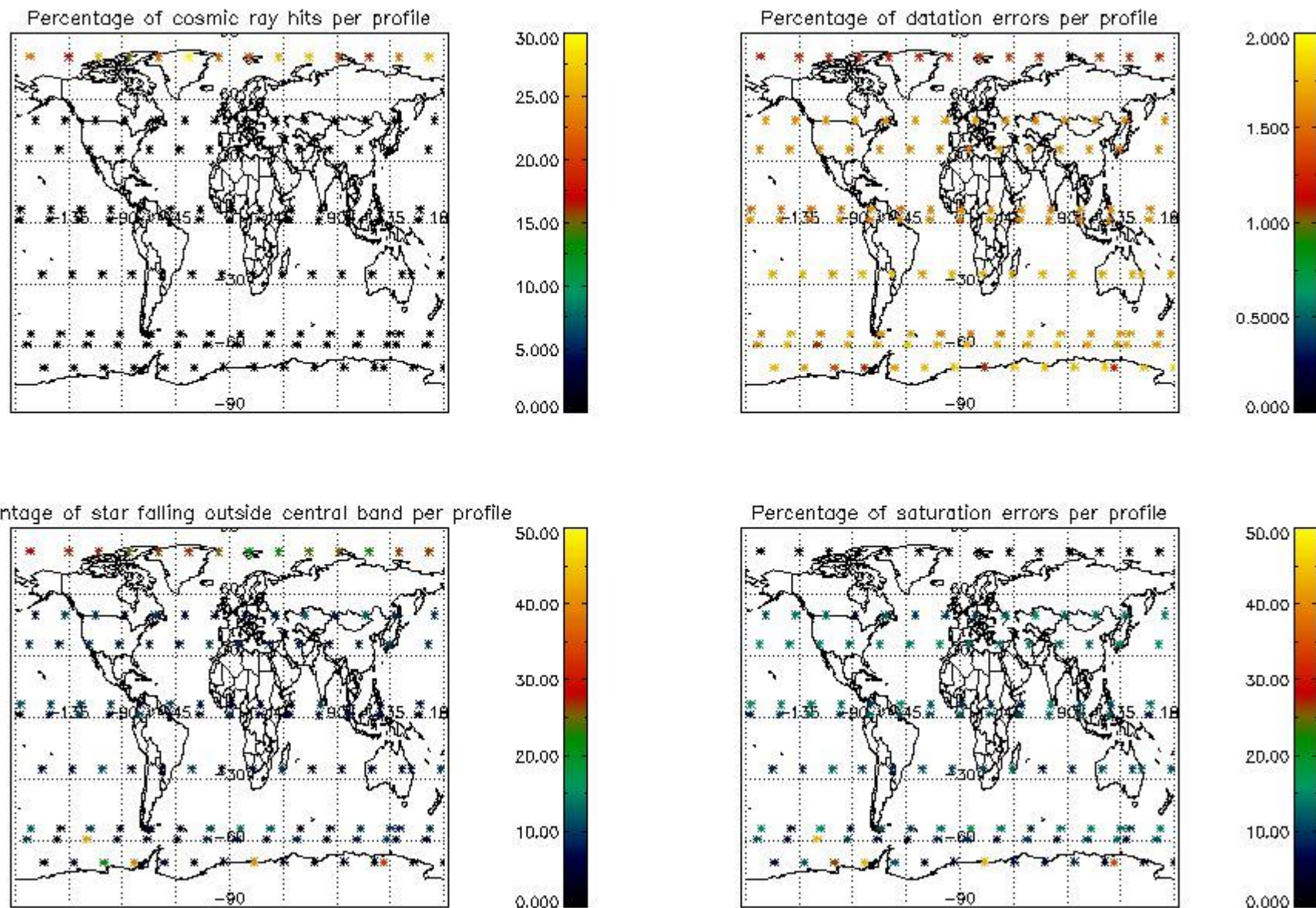
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

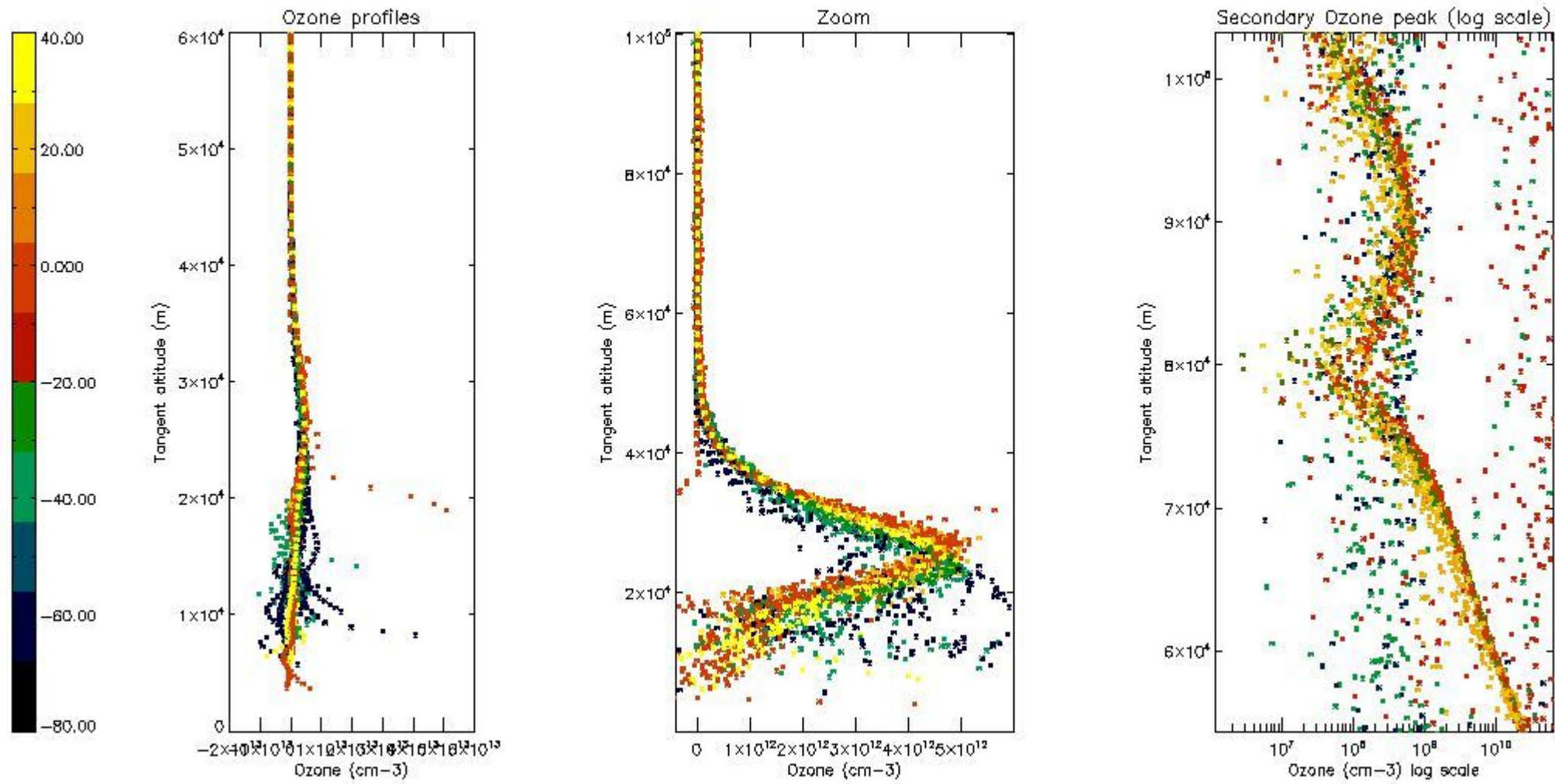
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

| Criteria | % of total production |
|----------|-----------------------|
| All STD  | 37                    |
| STD < 20 | 21                    |

|          |    |
|----------|----|
| STD < 10 | 15 |
| STD < 5  | 11 |

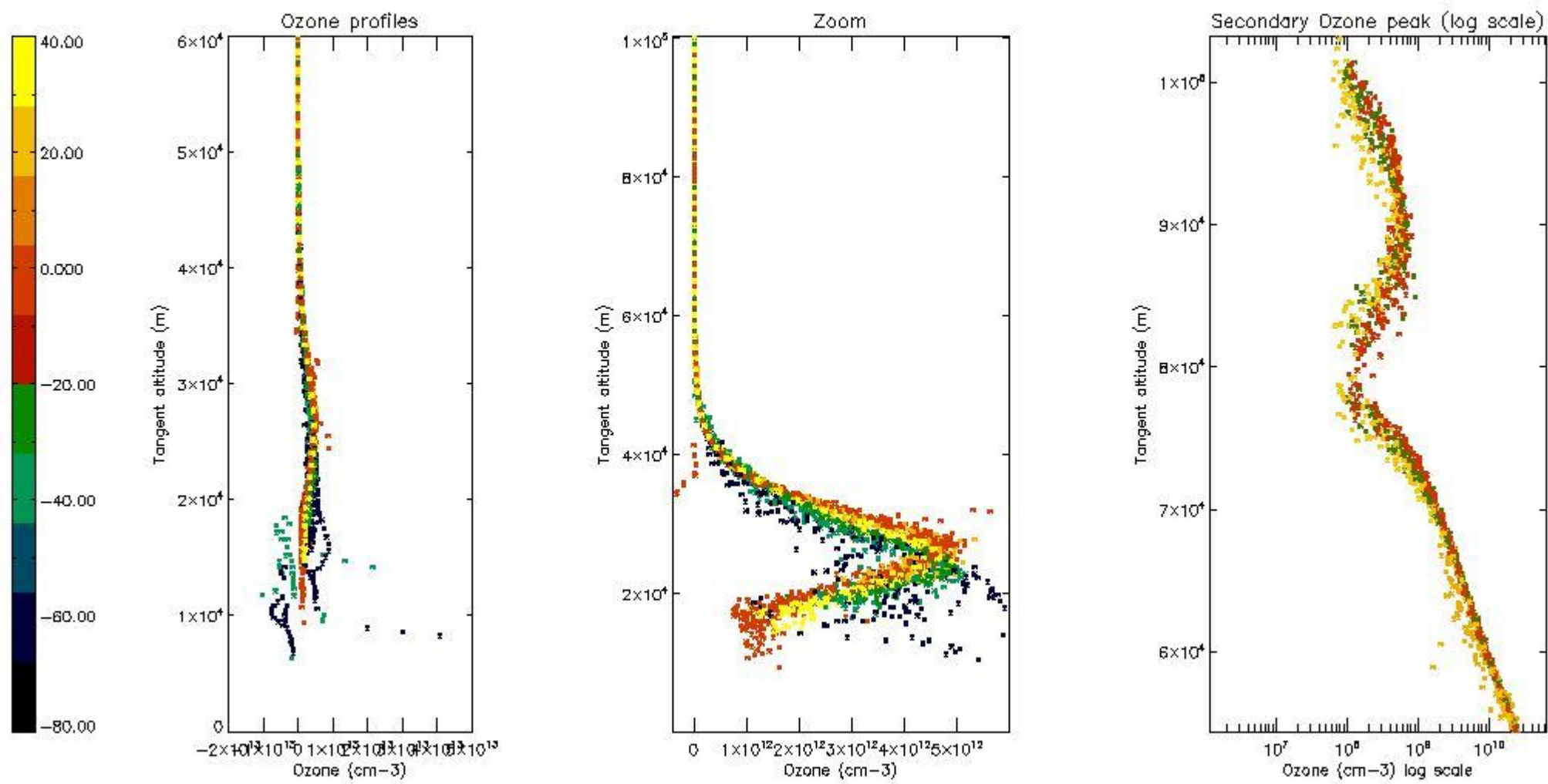
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



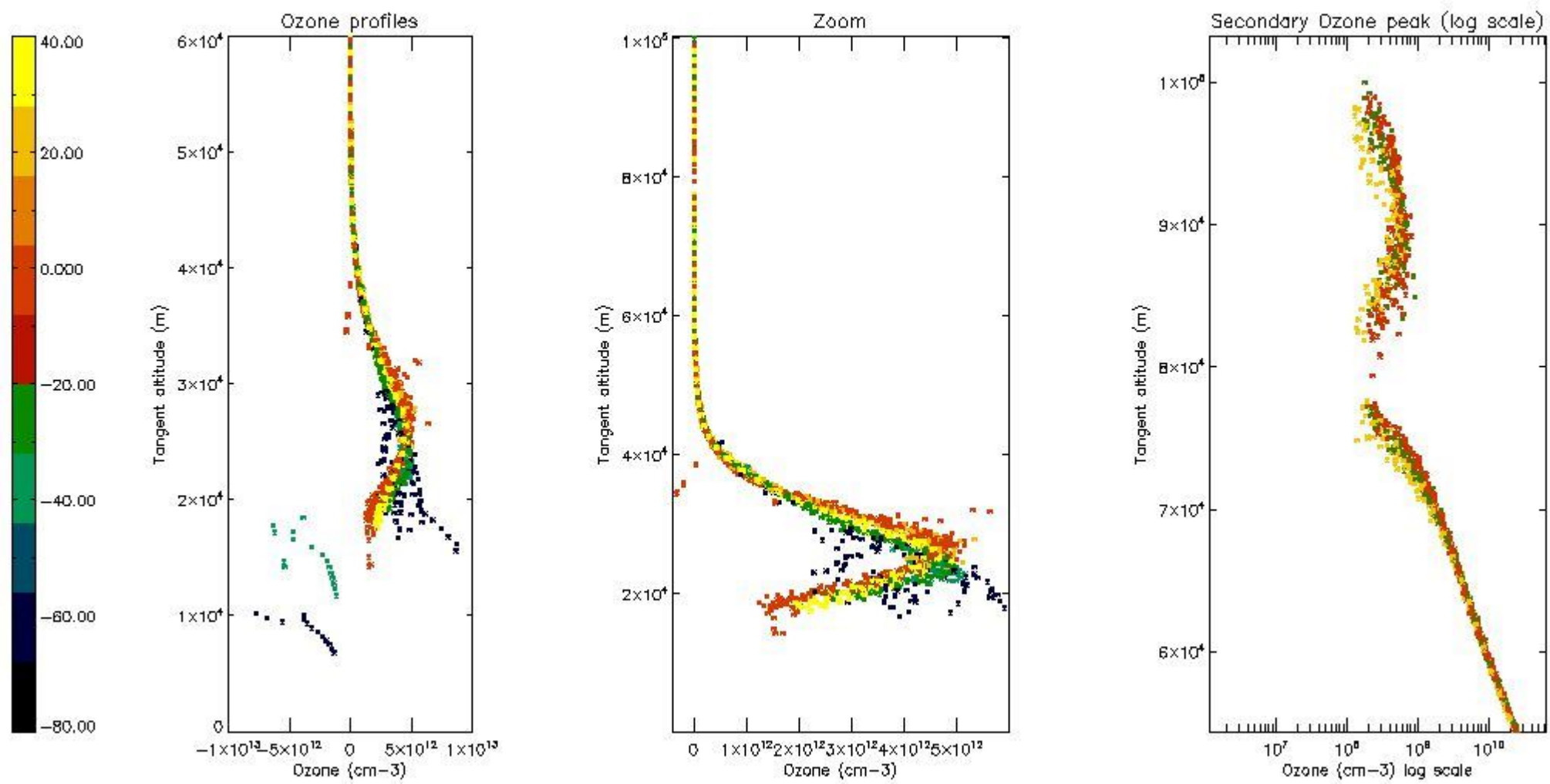
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



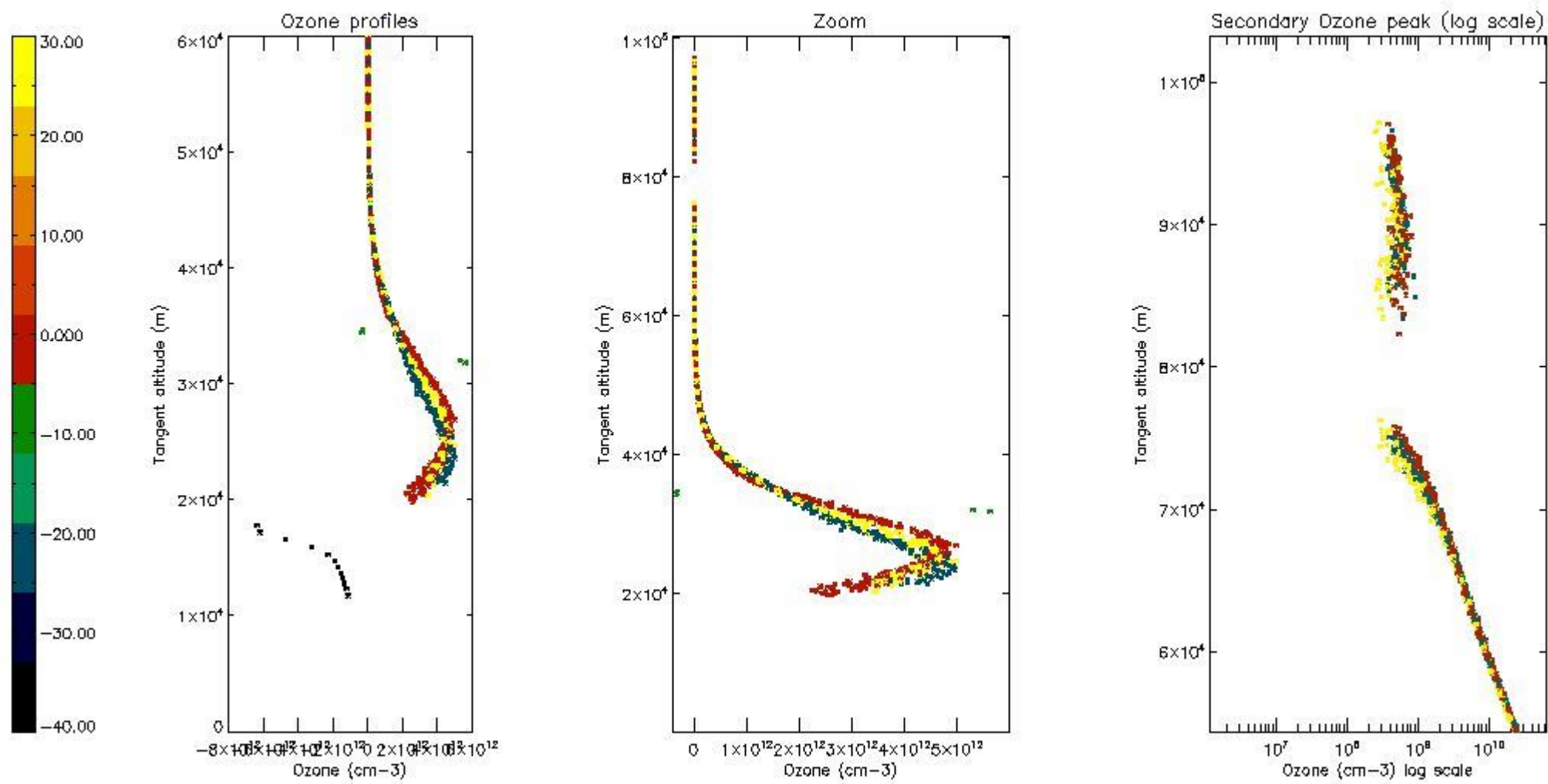
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



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

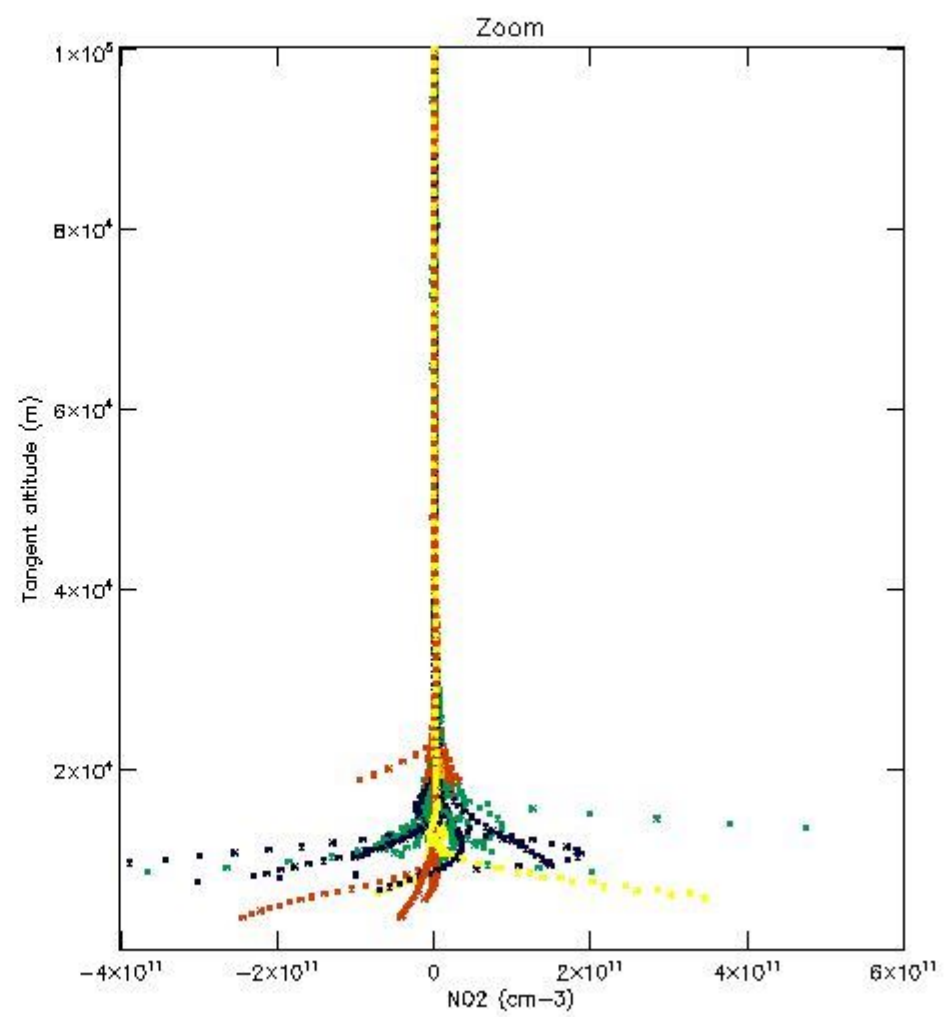
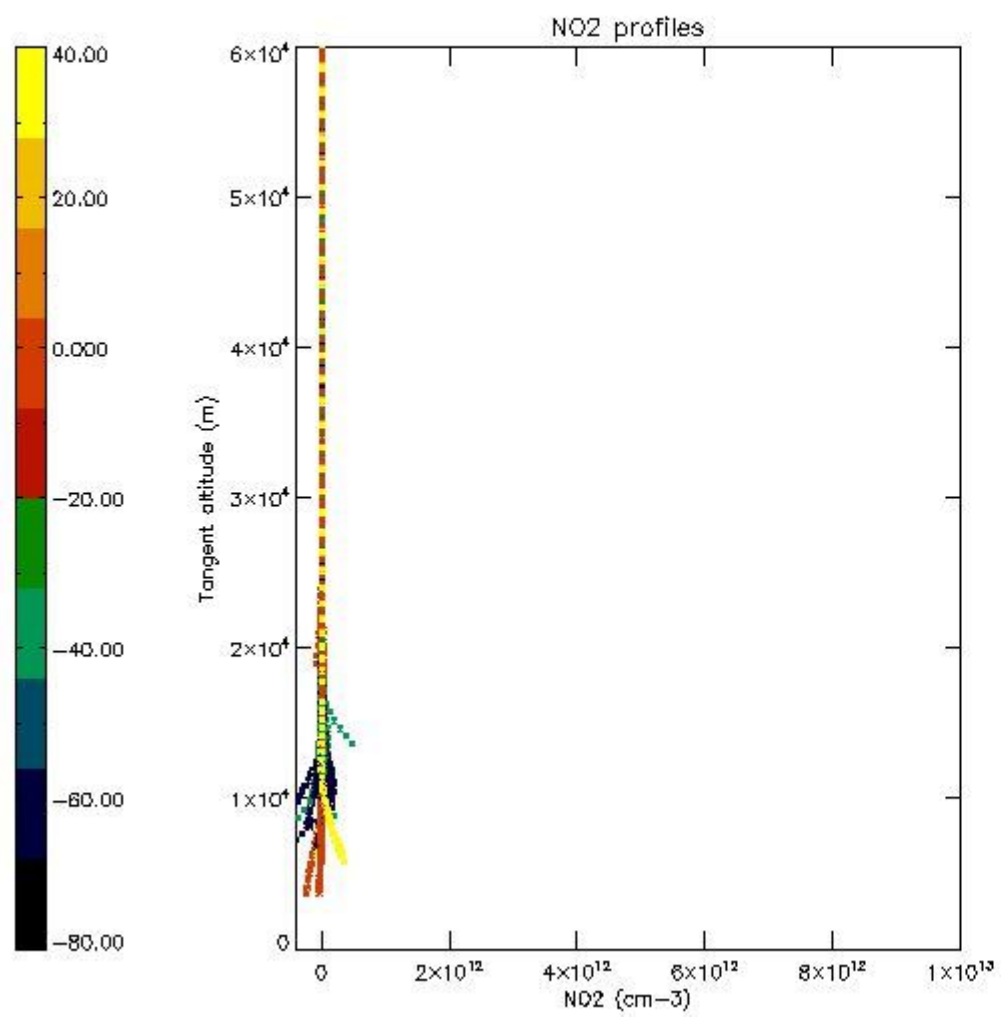
The colorbar represents the latitude.



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

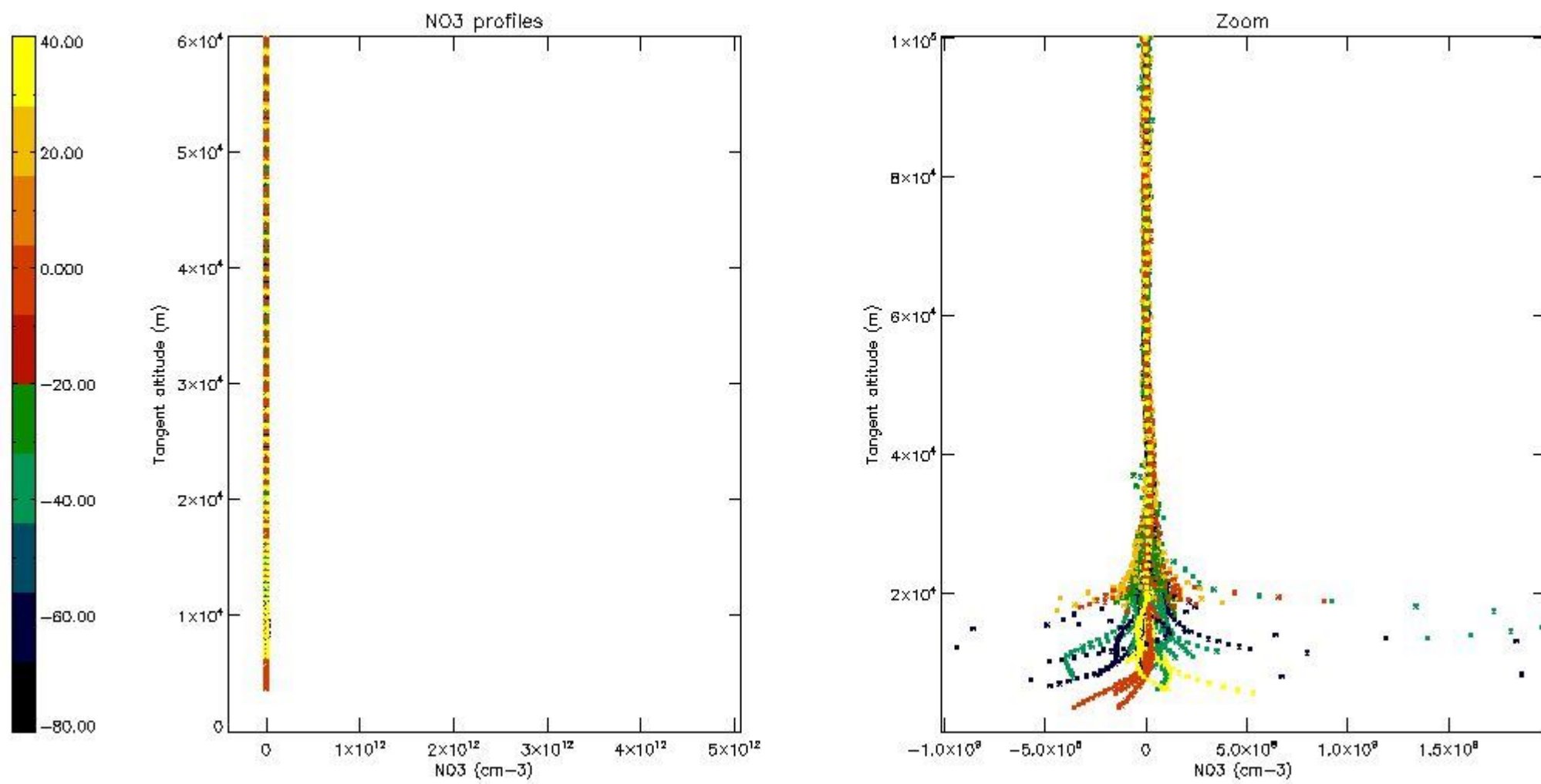
The colorbar represents the latitude.





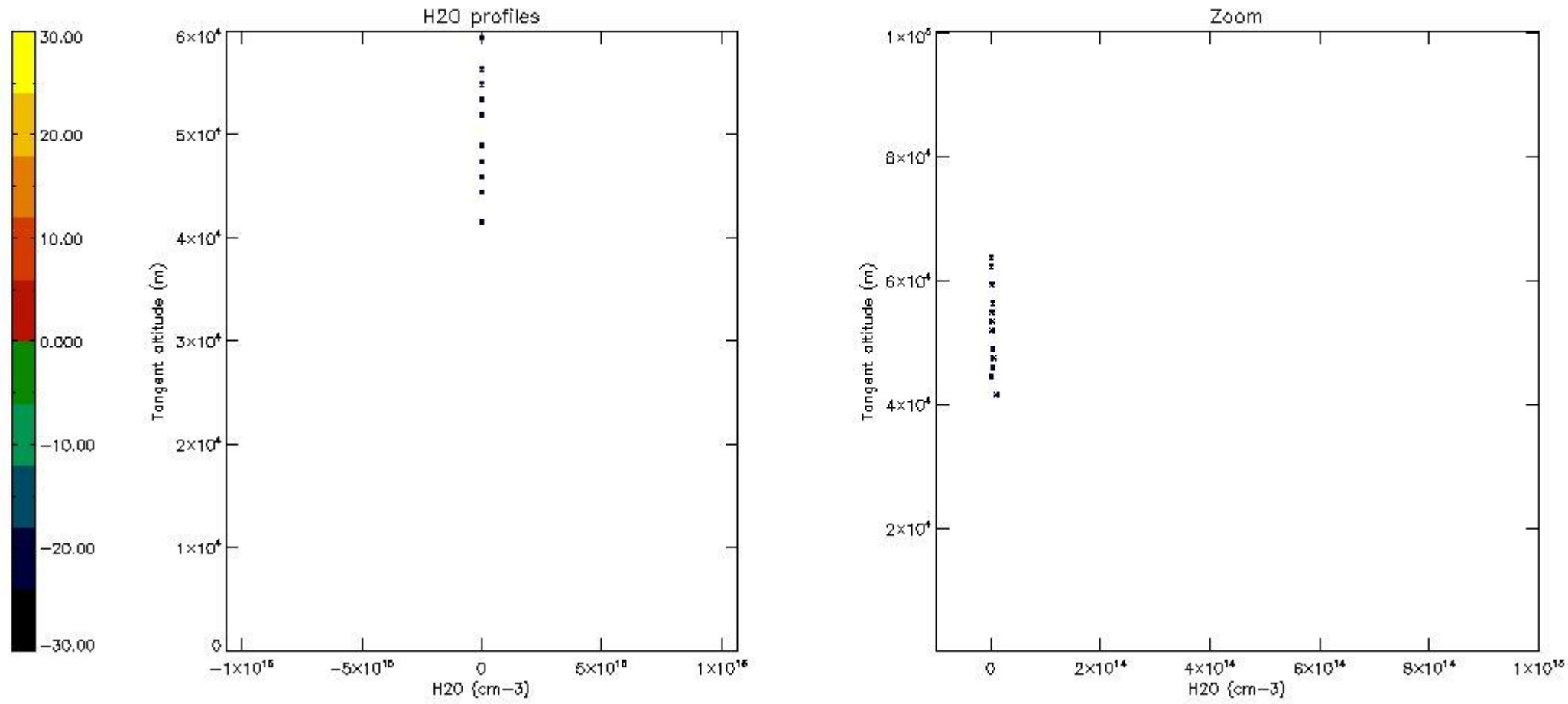
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



5.8 Plot H<sub>2</sub>O 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                  | 11-OCT-2006 00:05:51    |
| LEVEL-2_PROC_CONFIG       | GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000 | 1                  | 11-OCT-2006 00:05:51    |
| CROSS_SECTIONS_FILE       | GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000 | 1                  | 11-OCT-2006 00:05:51    |

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##### [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](#)

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#### [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](#)





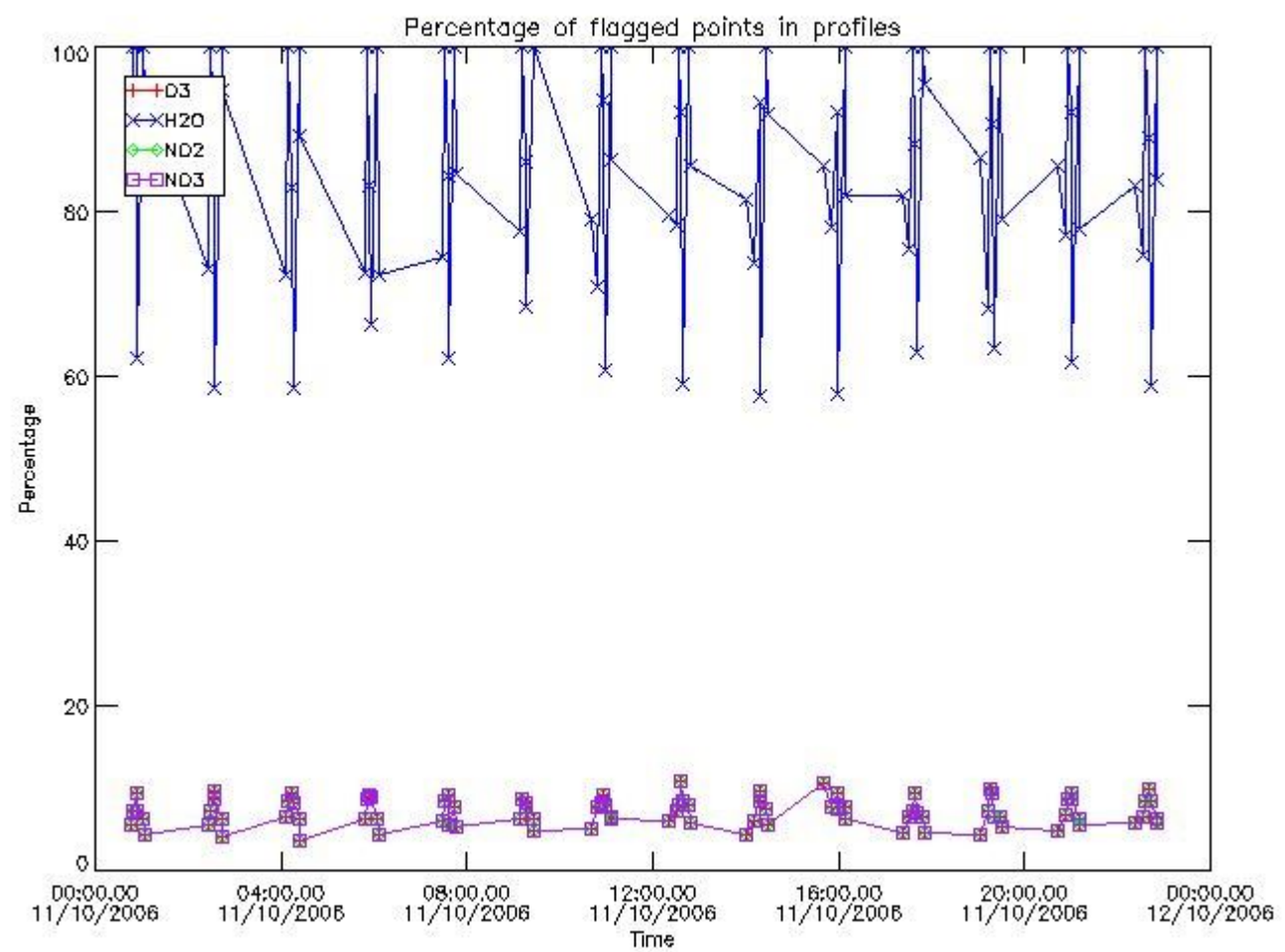






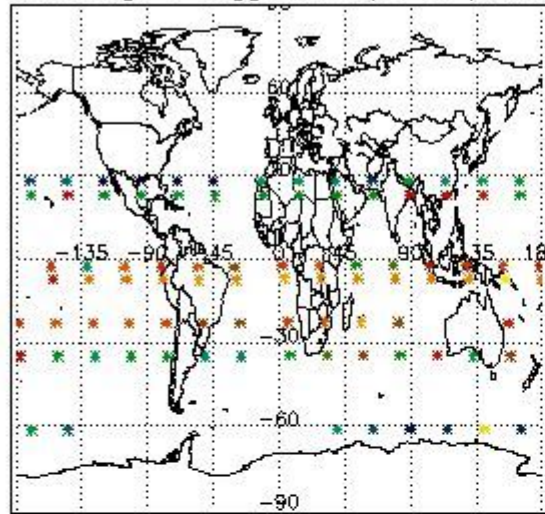


3.1 Plot quality information per product (time dependant)

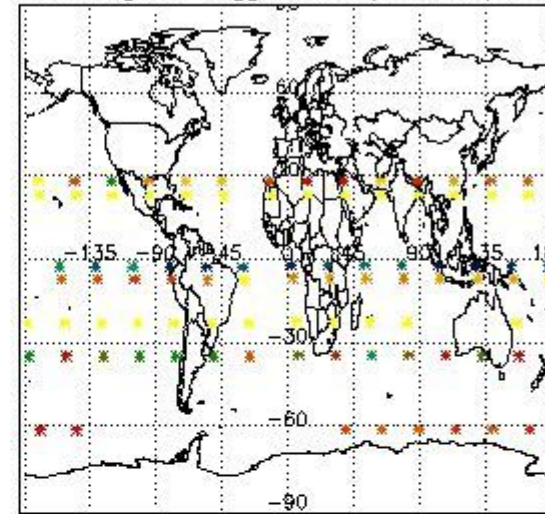


3.2 Plot quality information per product (world map)

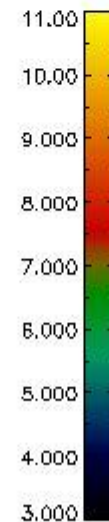
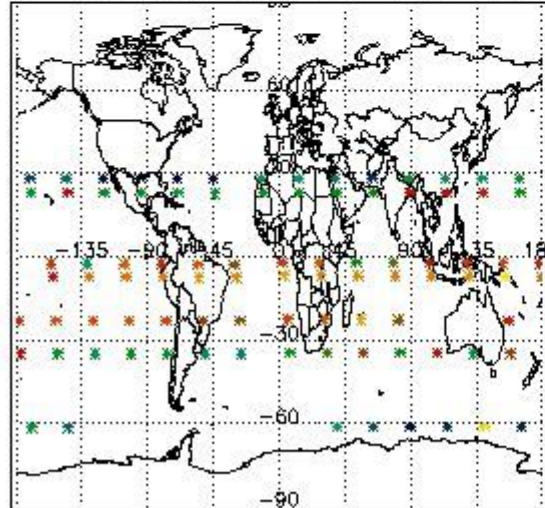
Percentage of flagged data per O3 profile



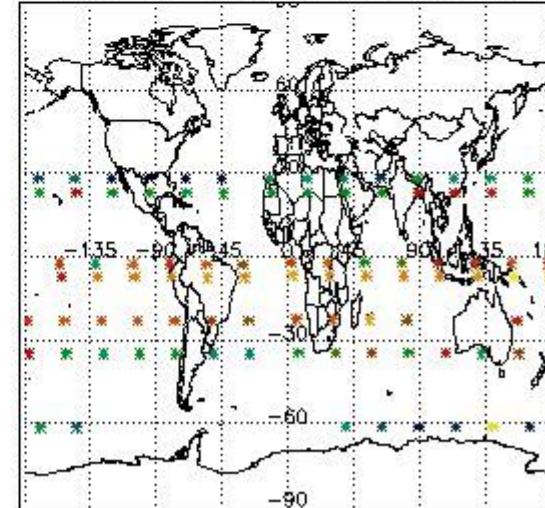
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

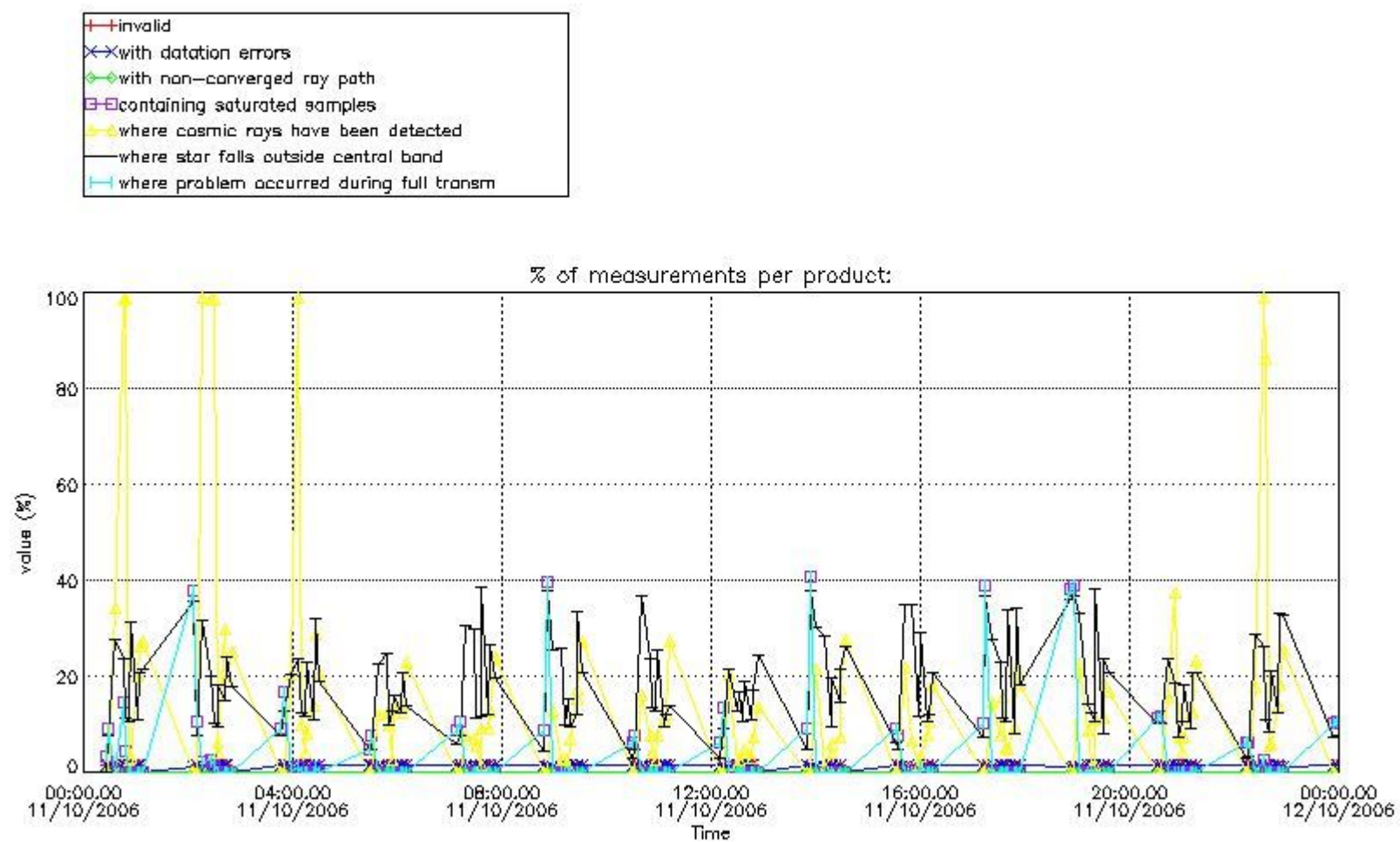


#### 4. Level 1 quality information per product

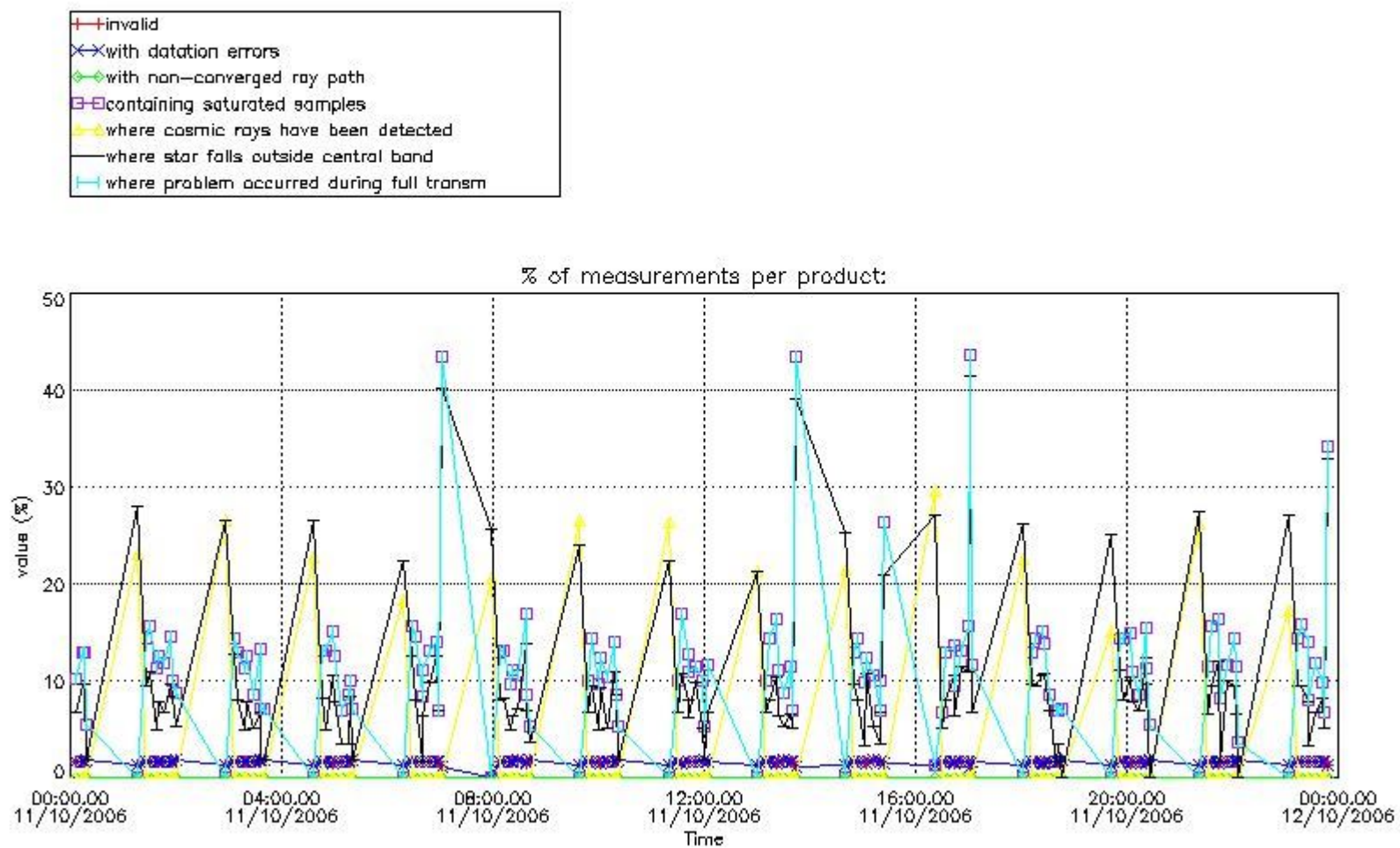
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



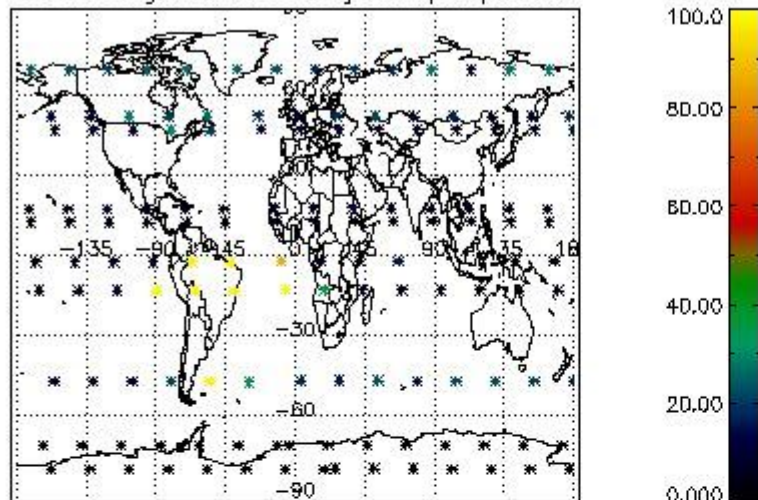
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



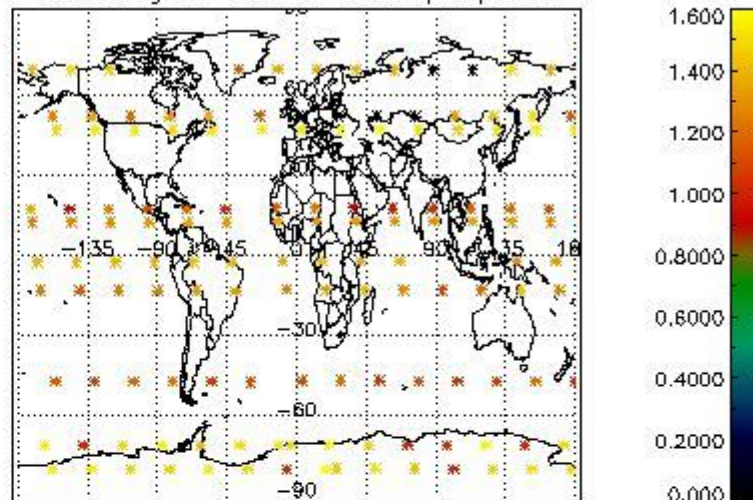
4.2 Plot quality information per product coming from level 1b processing (world map)

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

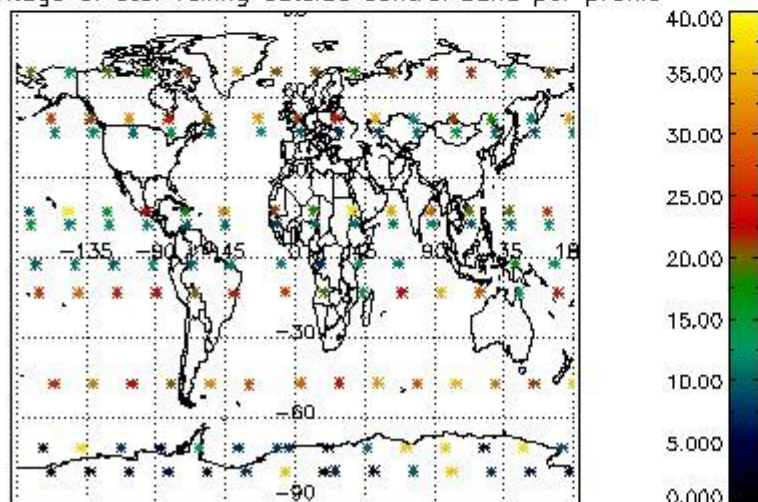
Percentage of cosmic ray hits per profile



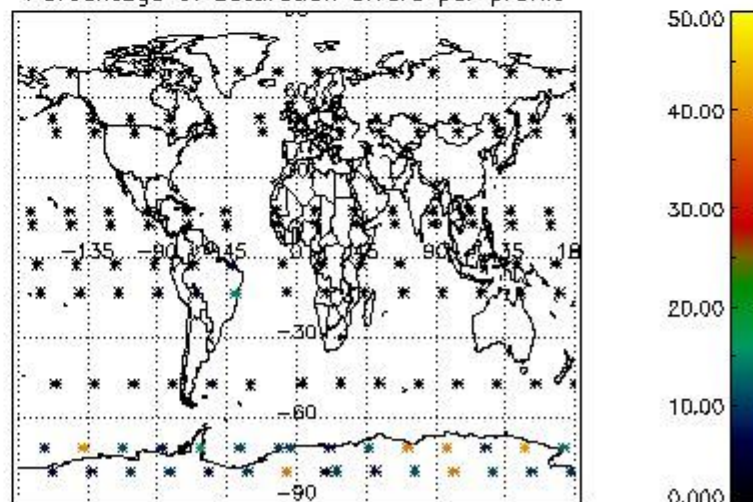
Percentage of datation errors per profile



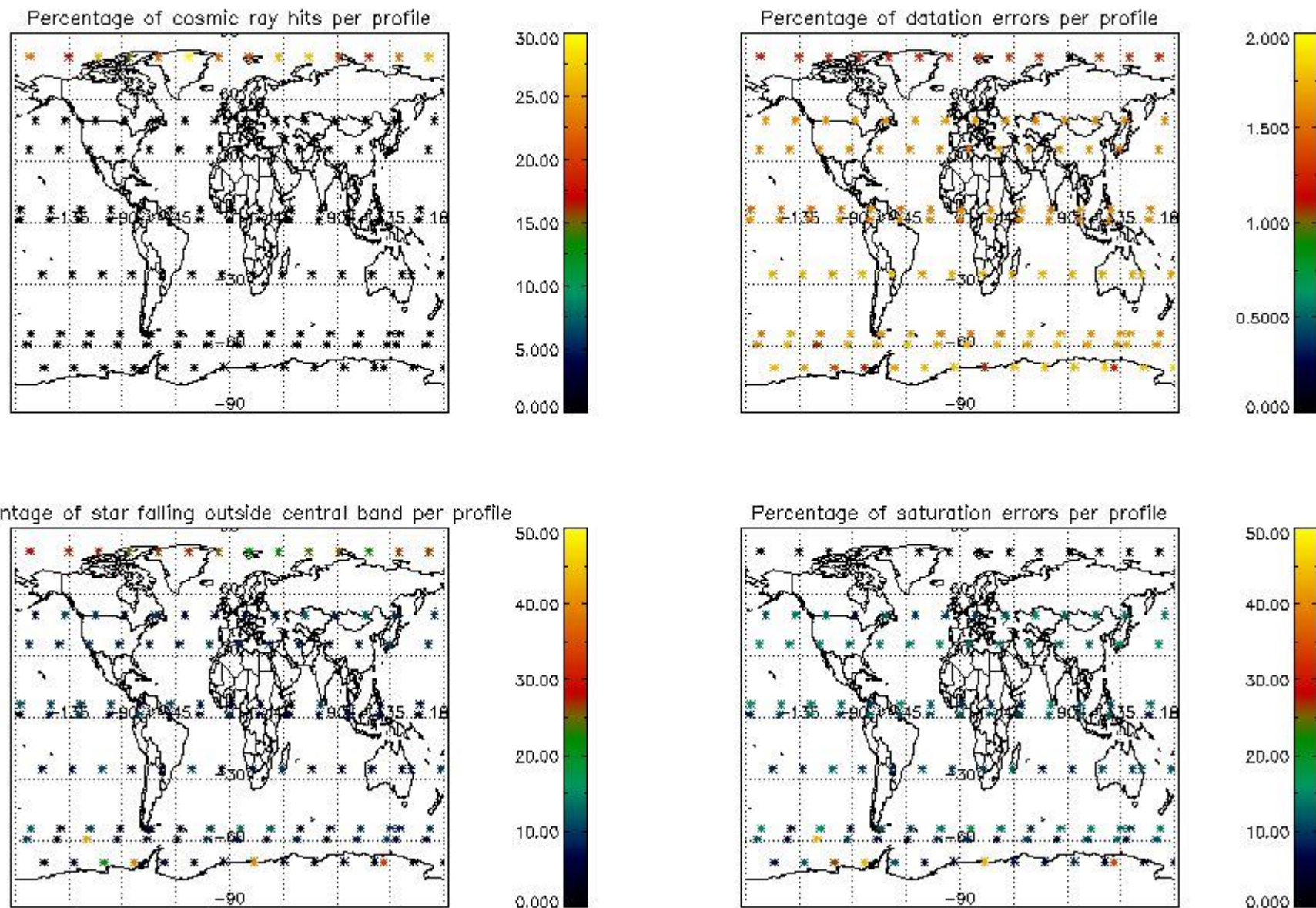
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

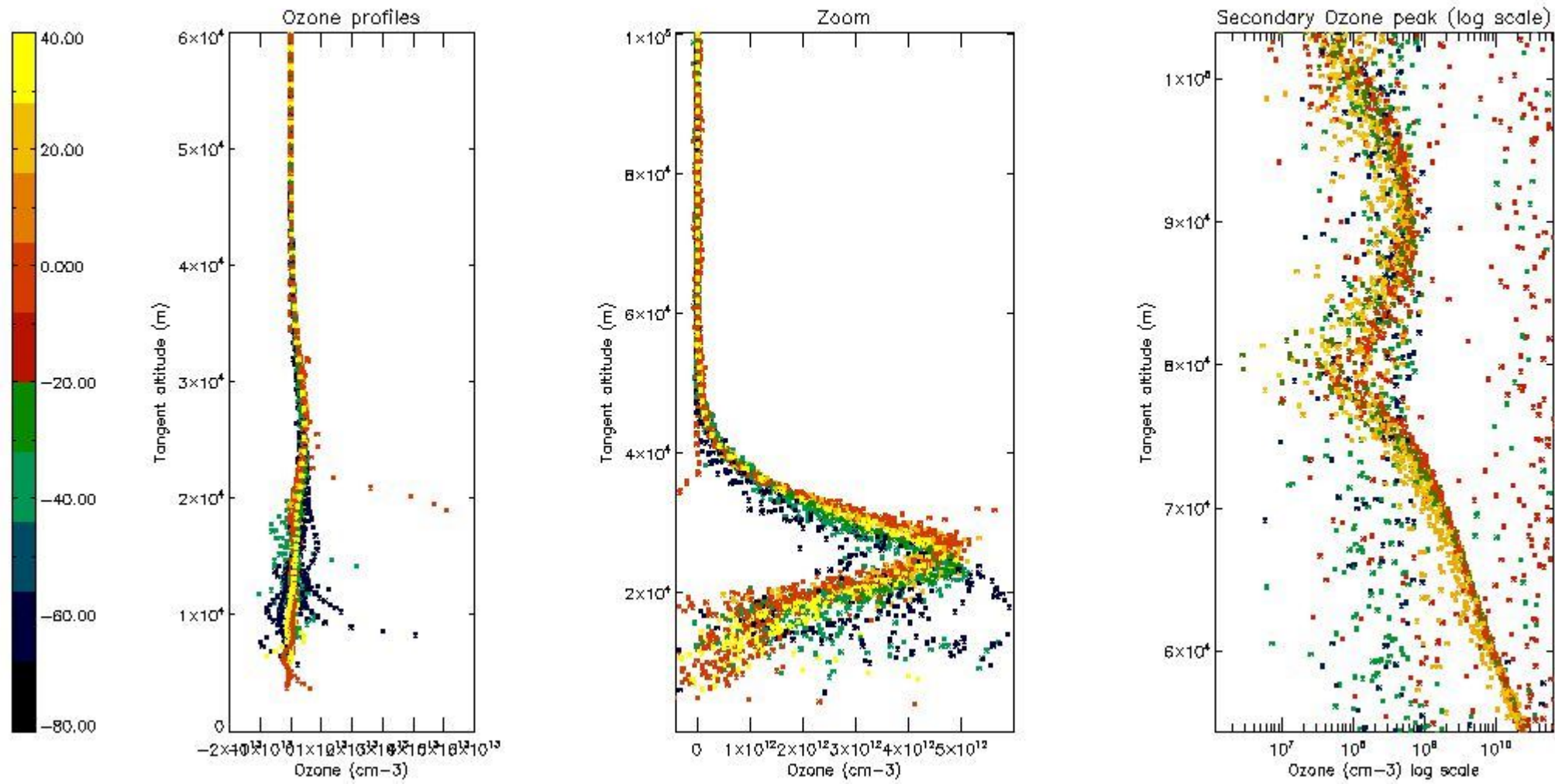
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

| Criteria | % of total production |
|----------|-----------------------|
| All STD  | 37                    |
| STD < 20 | 21                    |

|          |    |
|----------|----|
| STD < 10 | 15 |
| STD < 5  | 11 |

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

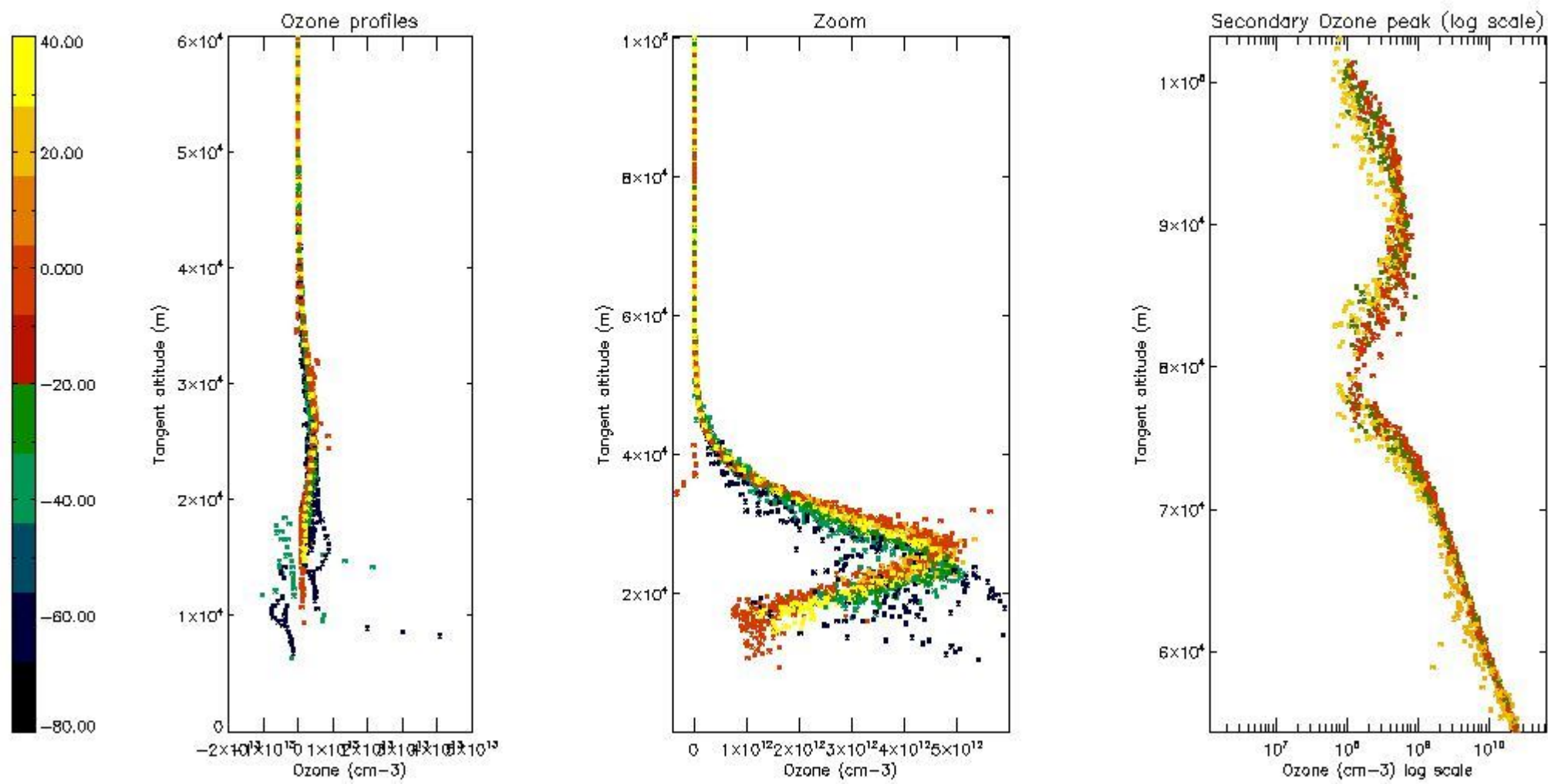
The colorbar represents the latitude.



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

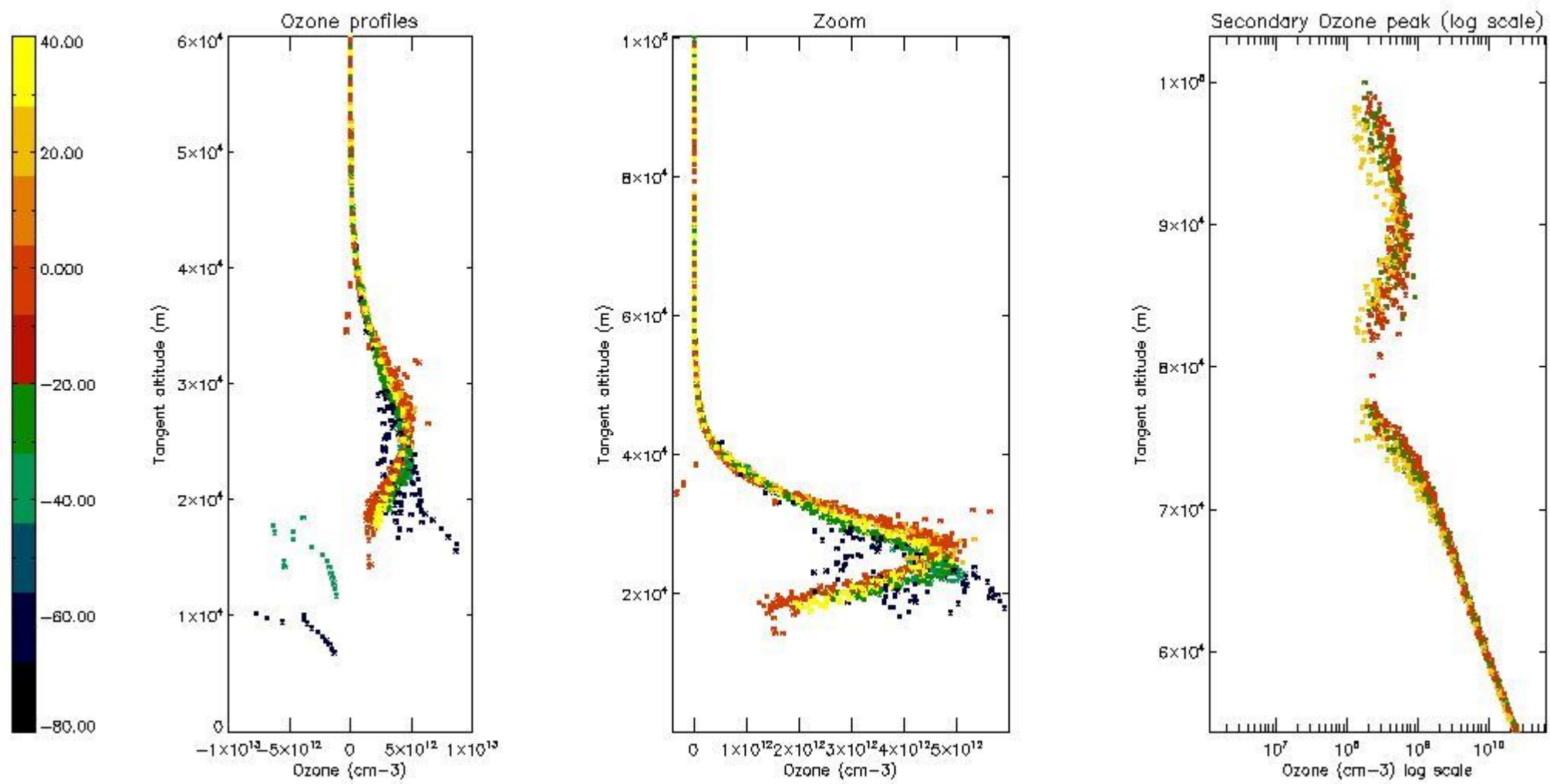
The colorbar represents the latitude.





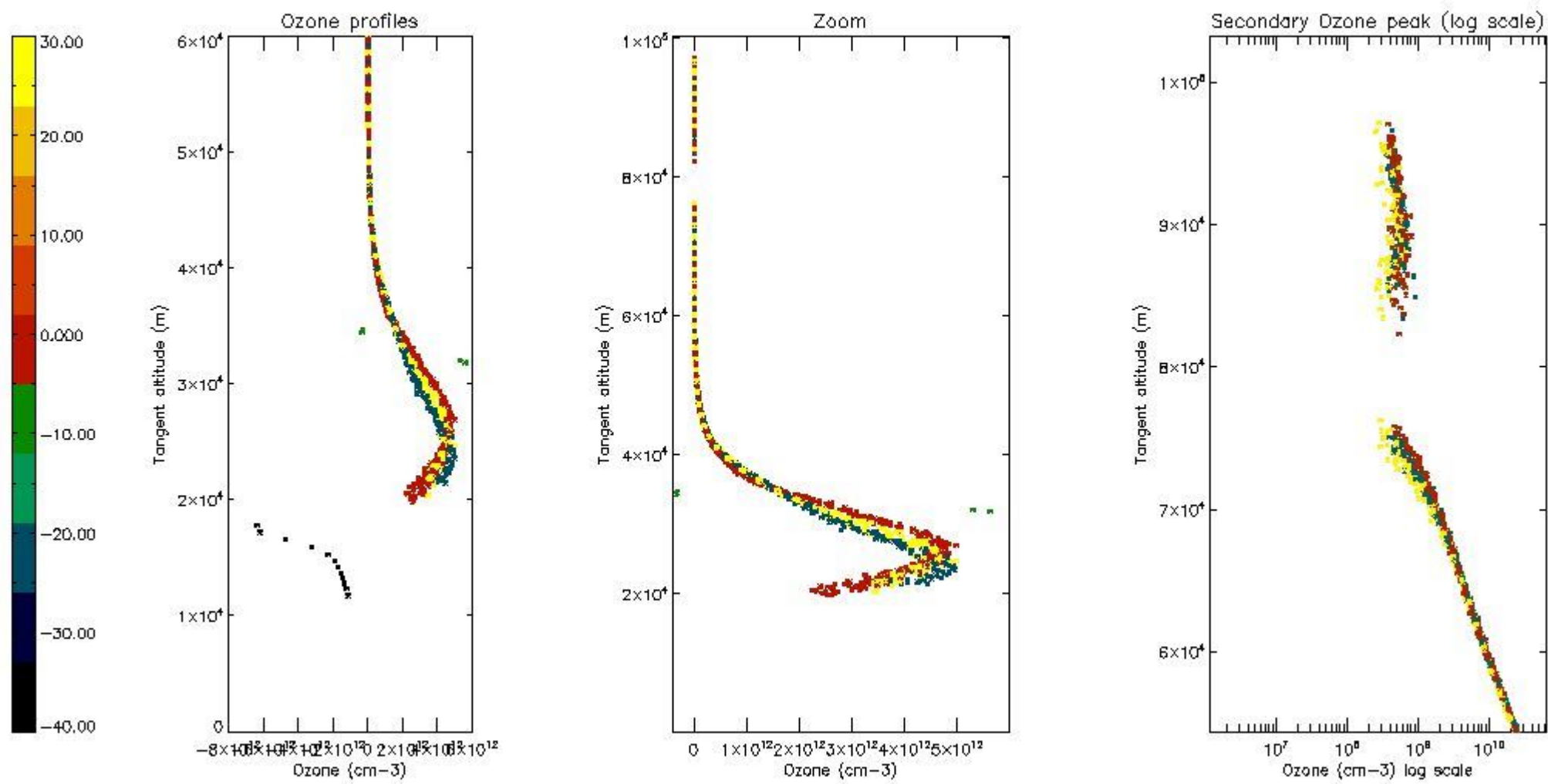
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



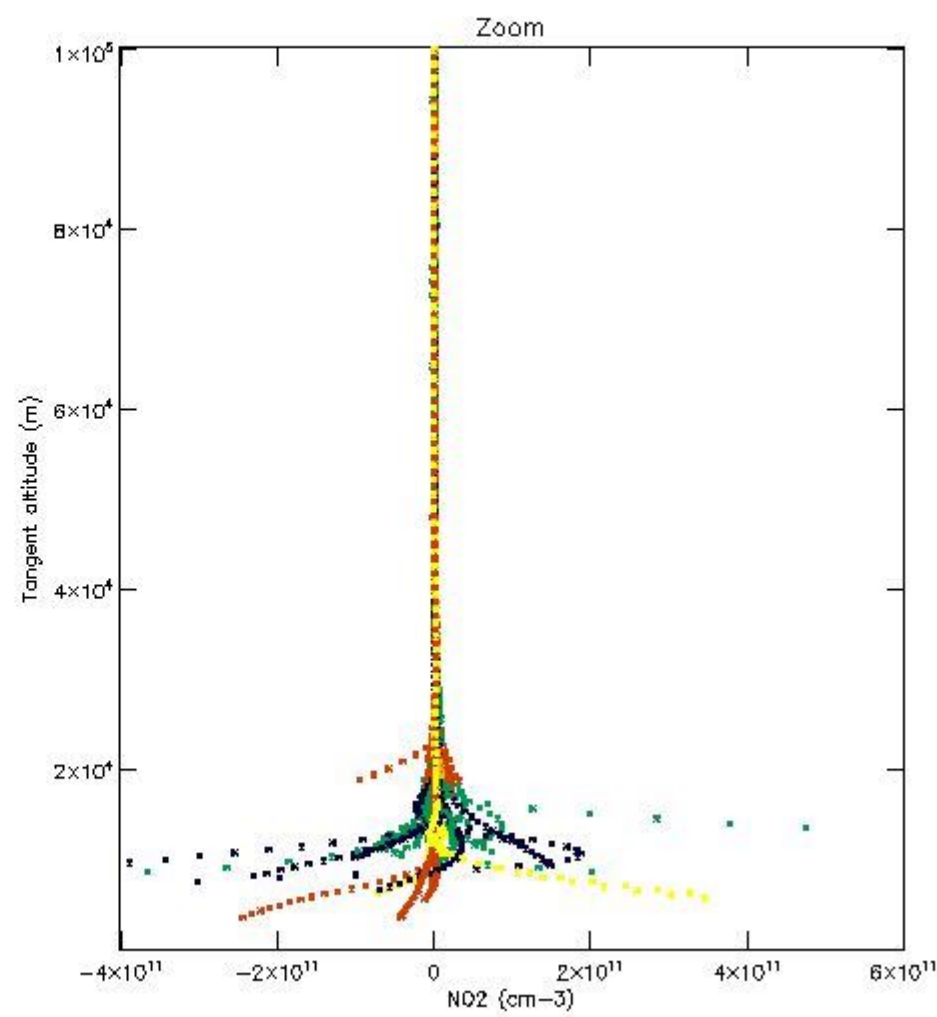
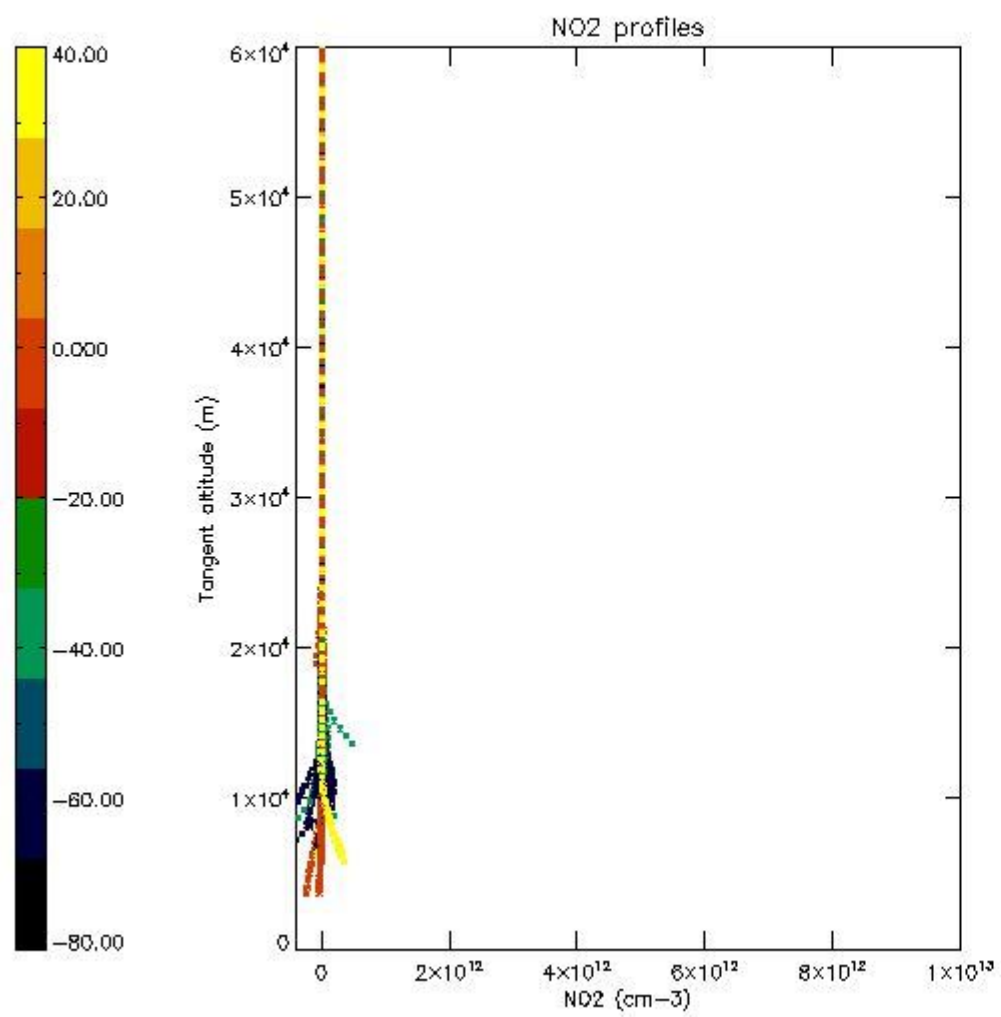
*5.5 Plot ozone profiles where  $STD < 5\%$  (dark without errors)*

The colorbar represents the latitude.



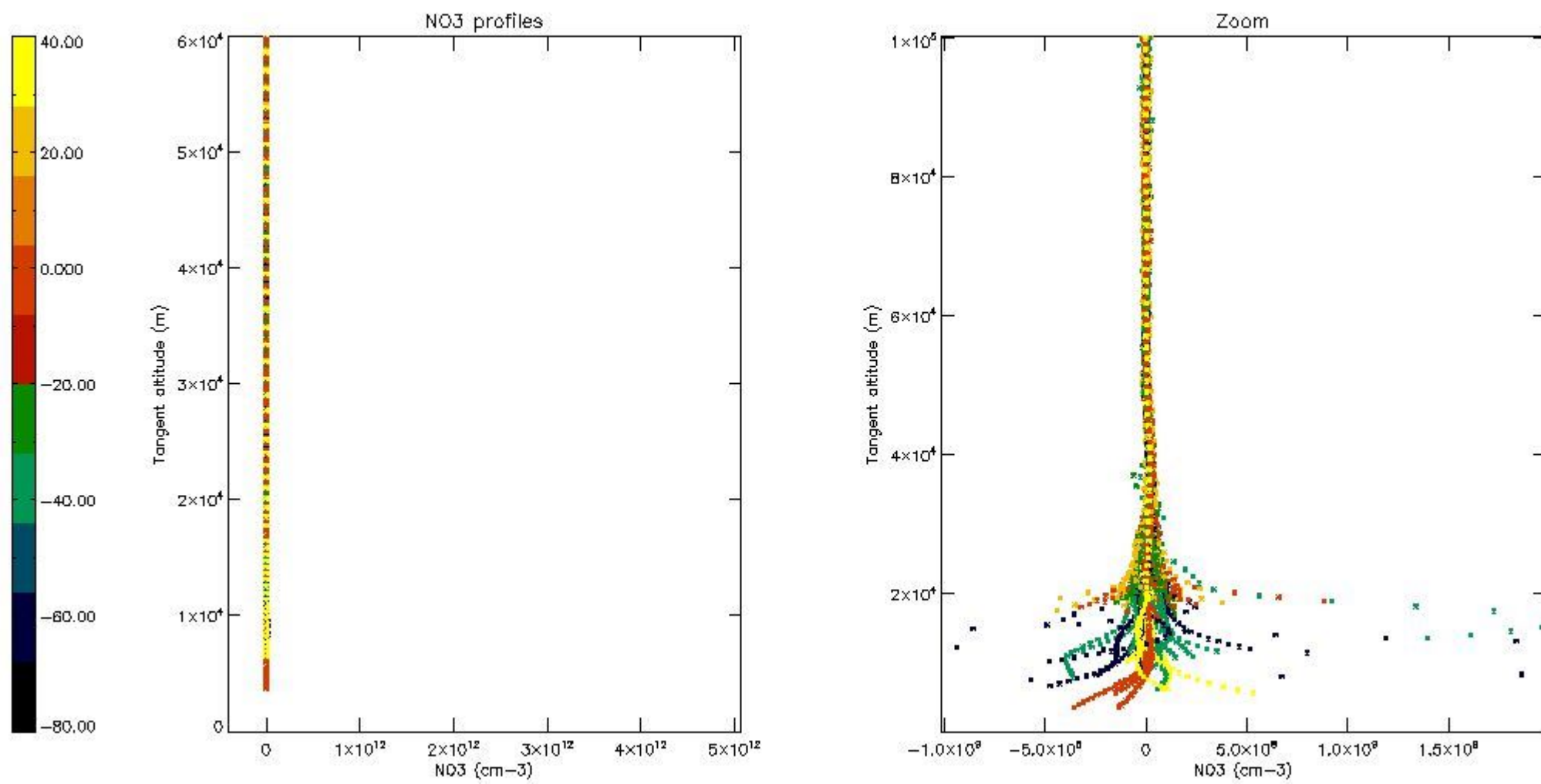
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



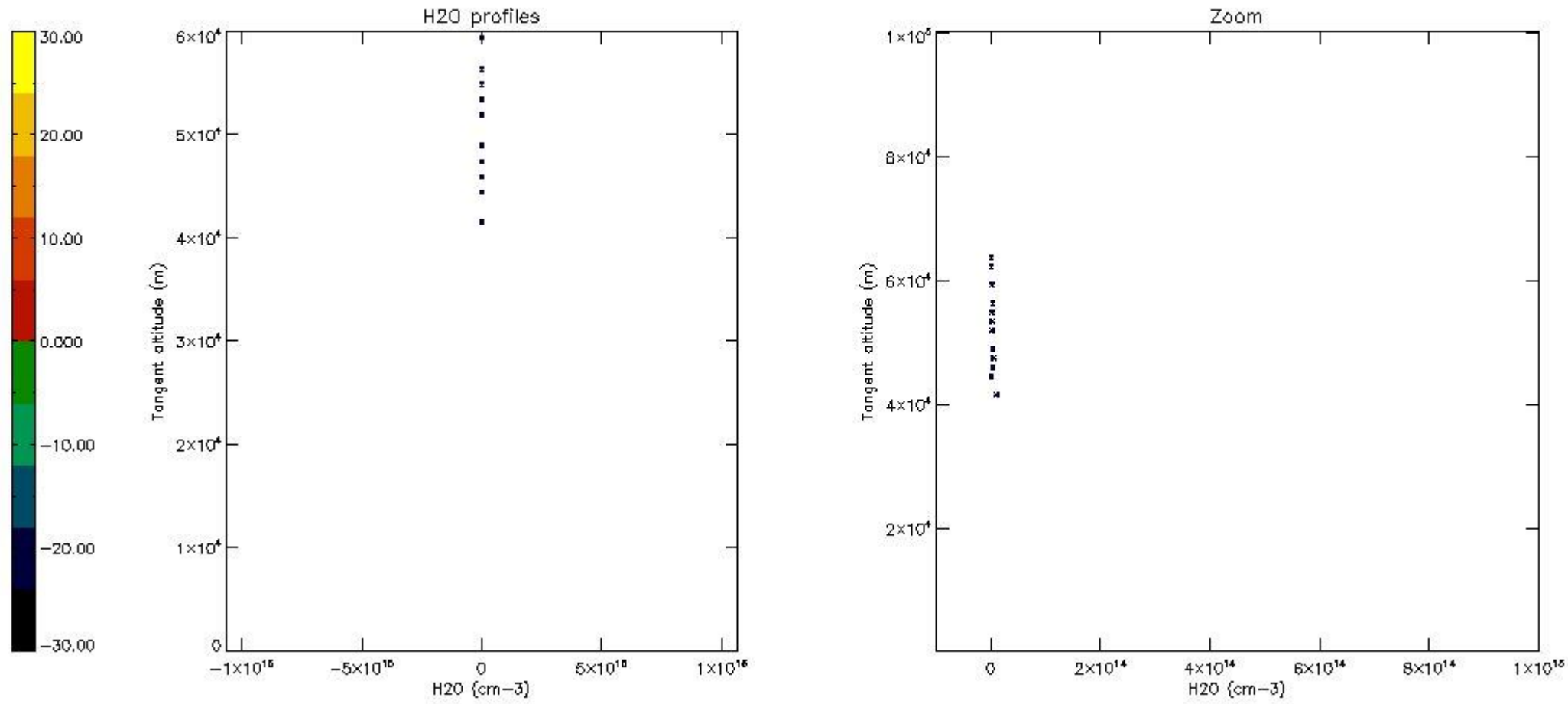
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



5.8 Plot H<sub>2</sub>O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors)

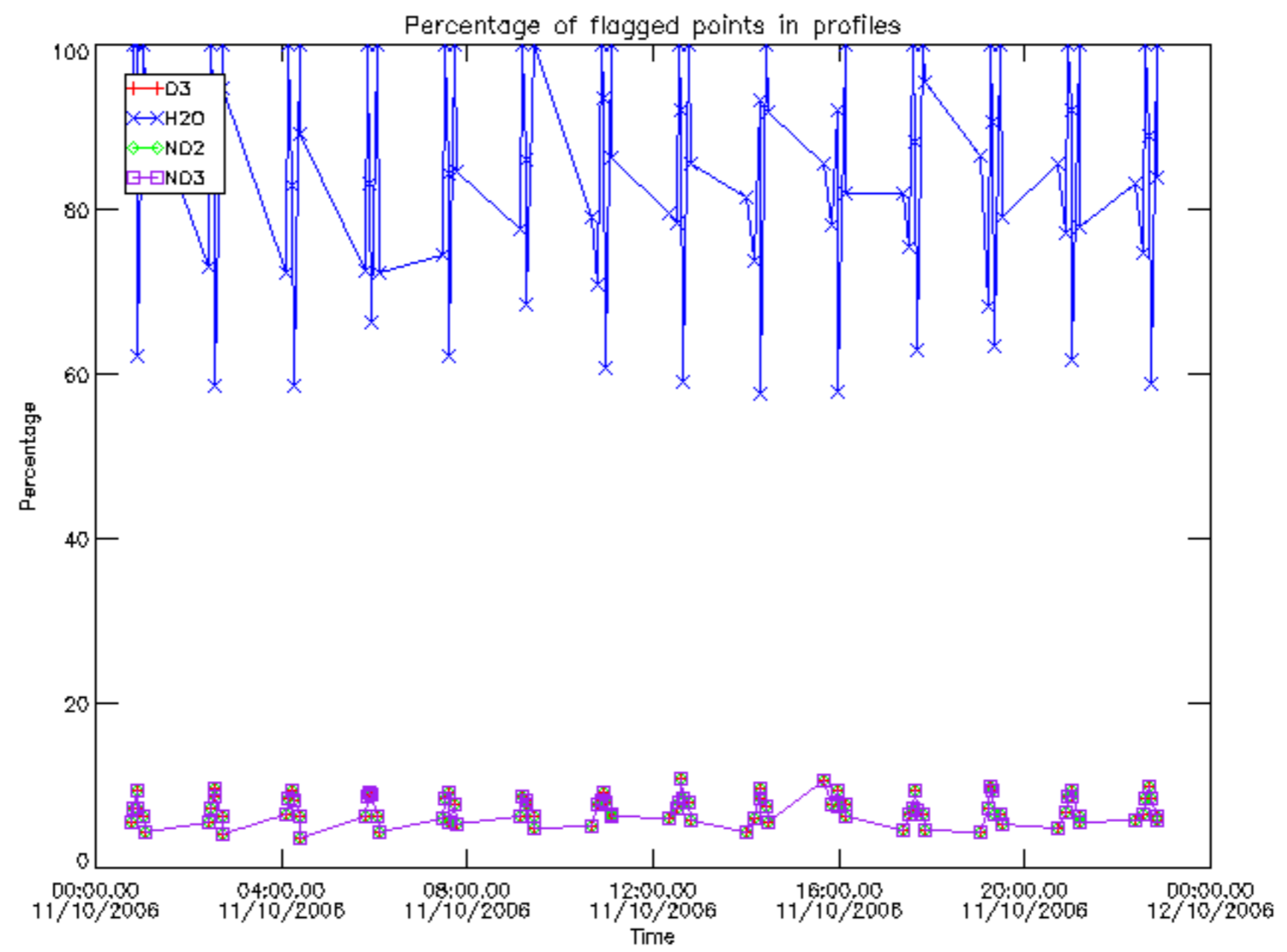
The colorbar represents the latitude.



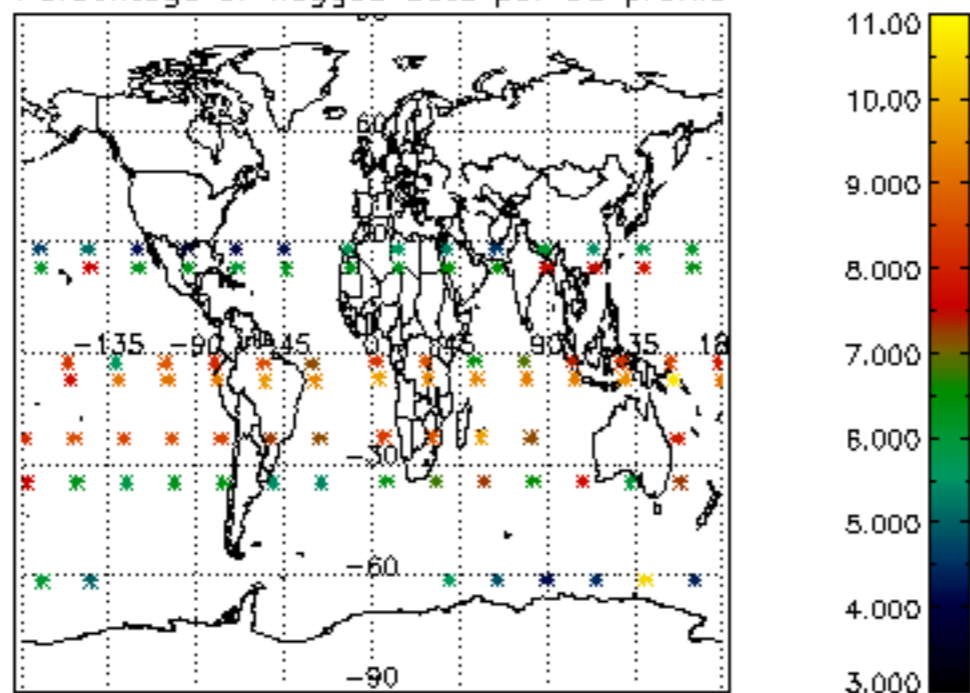
## 6. Auxiliary Data Files used for the production reported in section 2

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.

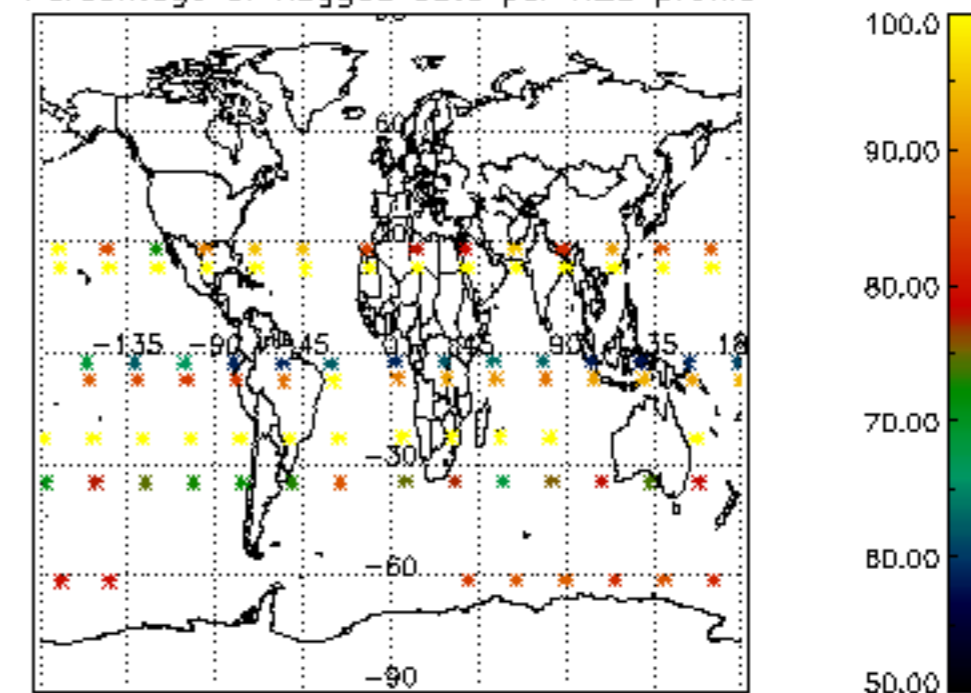
| Type                      | Auxiliary Filename  | Used since product | Used since product date |
|---------------------------|---|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000 | 1                  | 11-OCT-2006 00:05:51    |
| LEVEL-2_PROC_CONFIG       | GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000 | 1                  | 11-OCT-2006 00:05:51    |
| CROSS_SECTIONS_FILE       | GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000 | 1                  | 11-OCT-2006 00:05:51    |



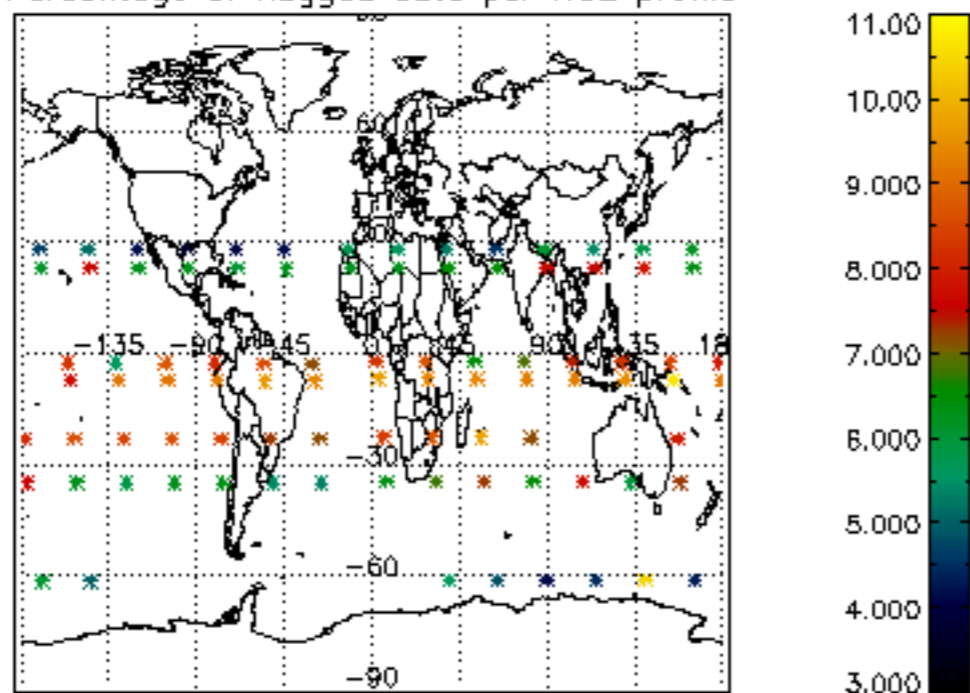
Percentage of flagged data per D3 profile



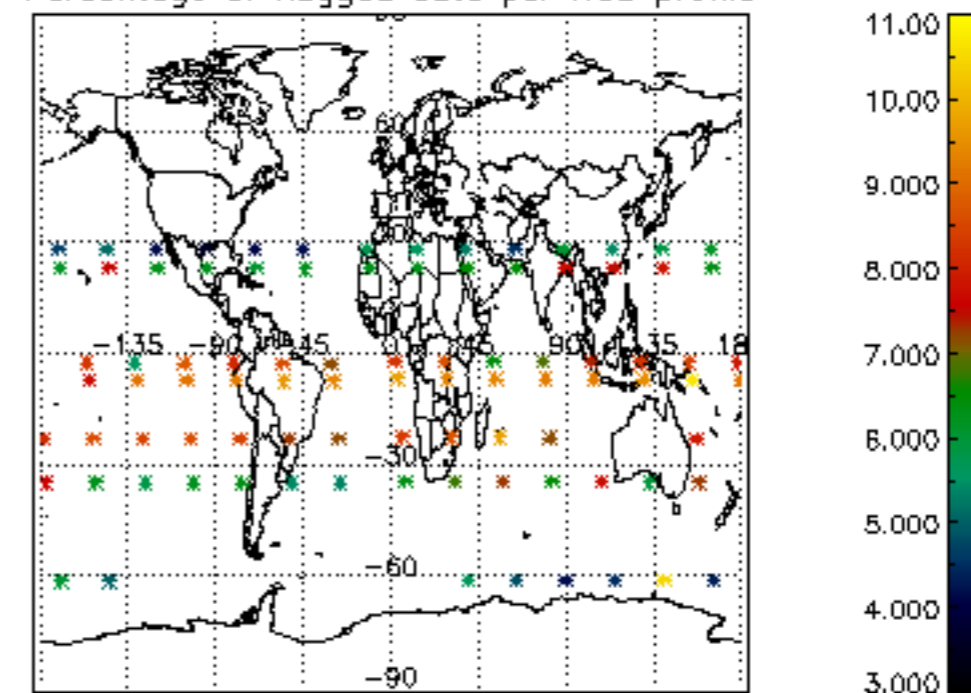
Percentage of flagged data per H2O profile



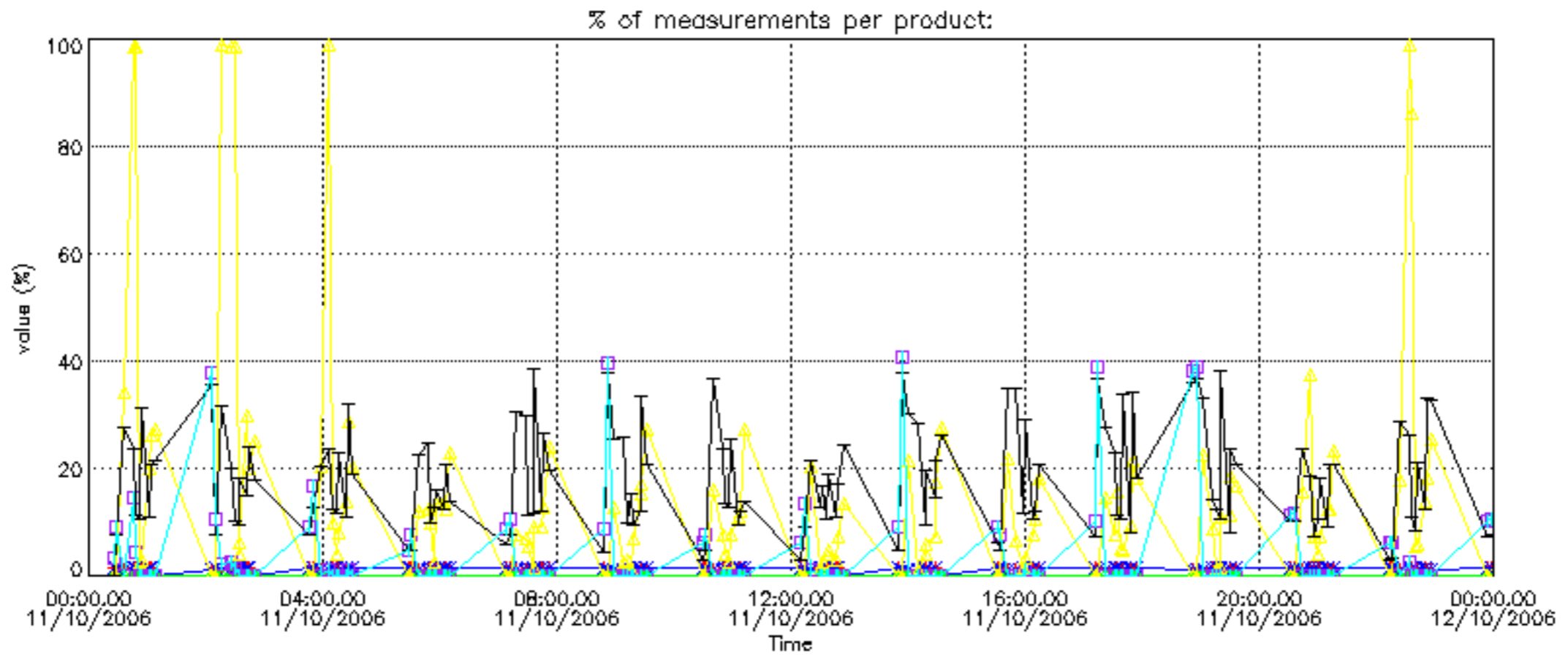
Percentage of flagged data per NO2 profile

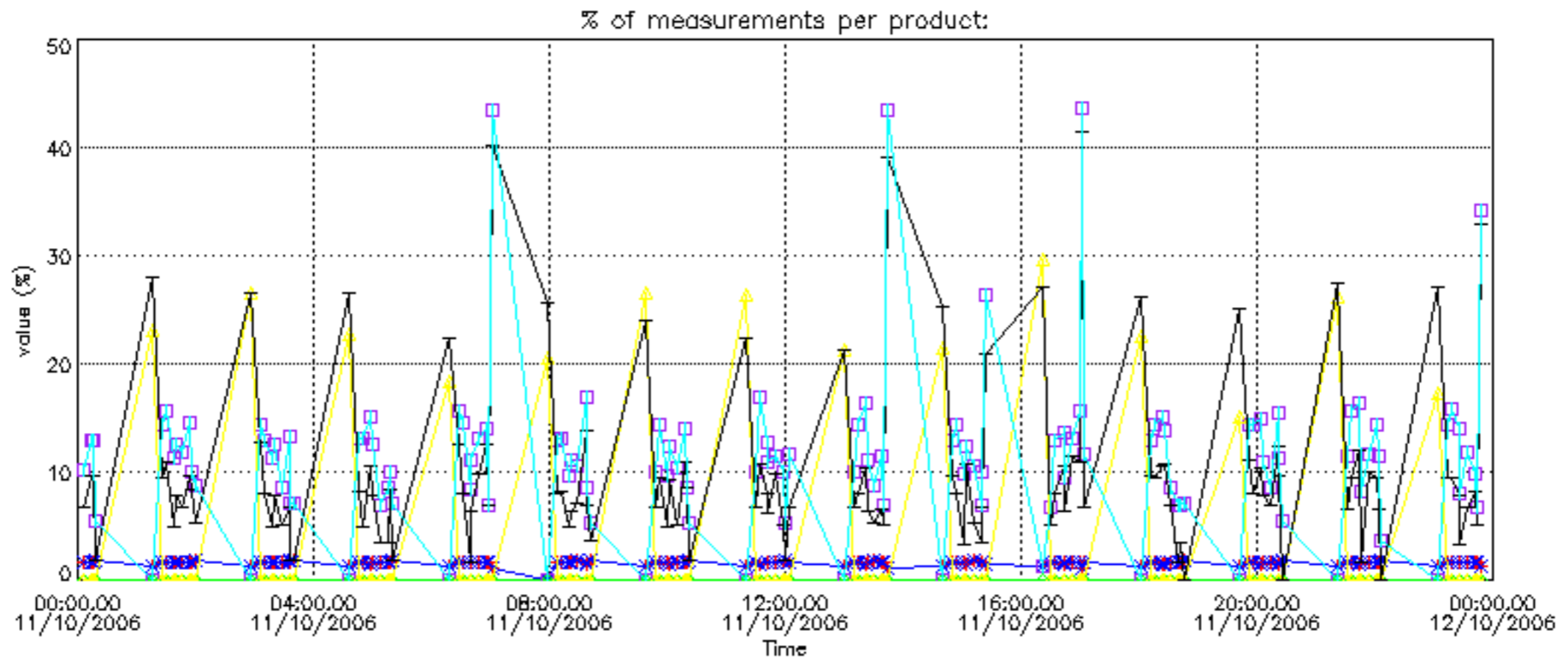


Percentage of flagged data per NO3 profile

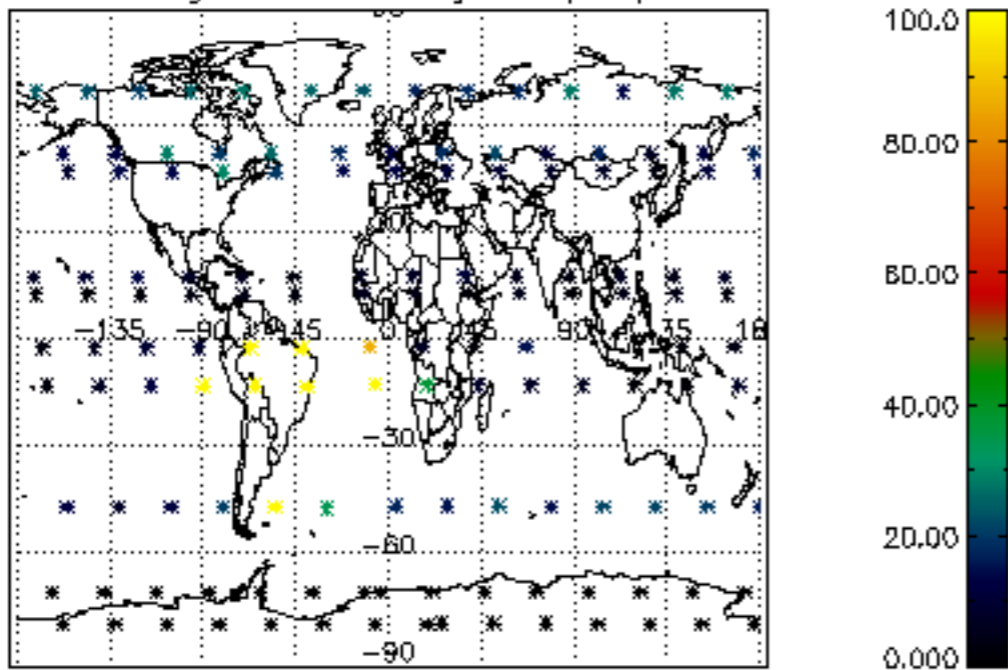




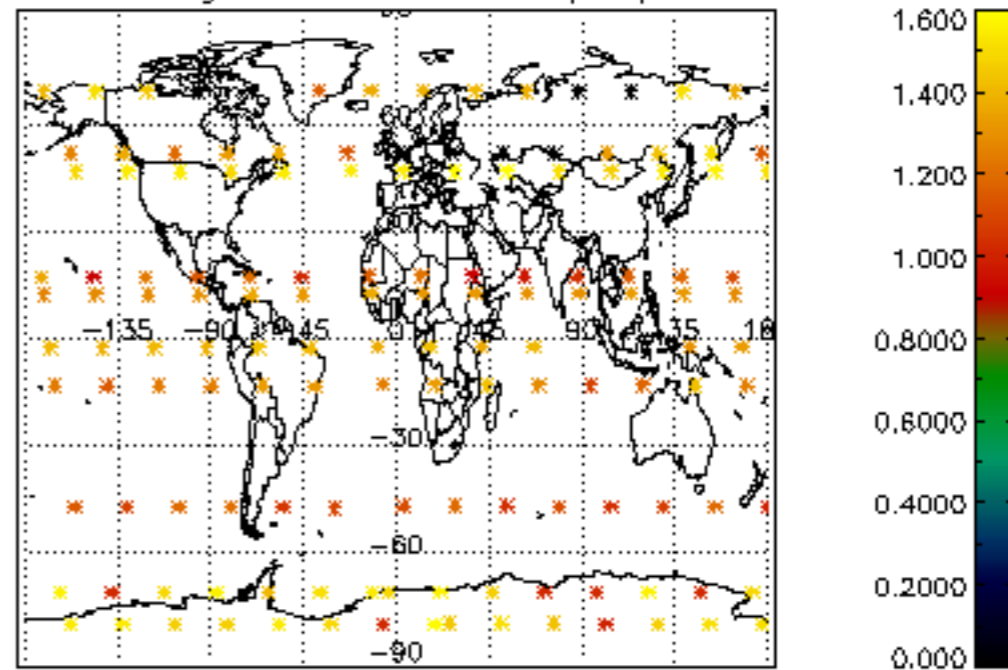




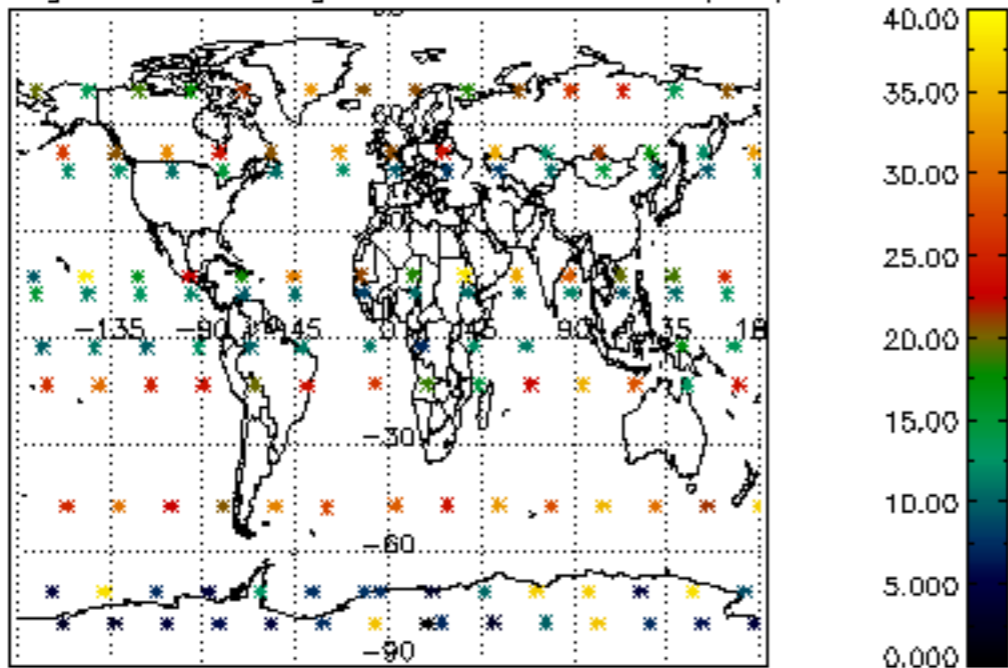
Percentage of cosmic ray hits per profile



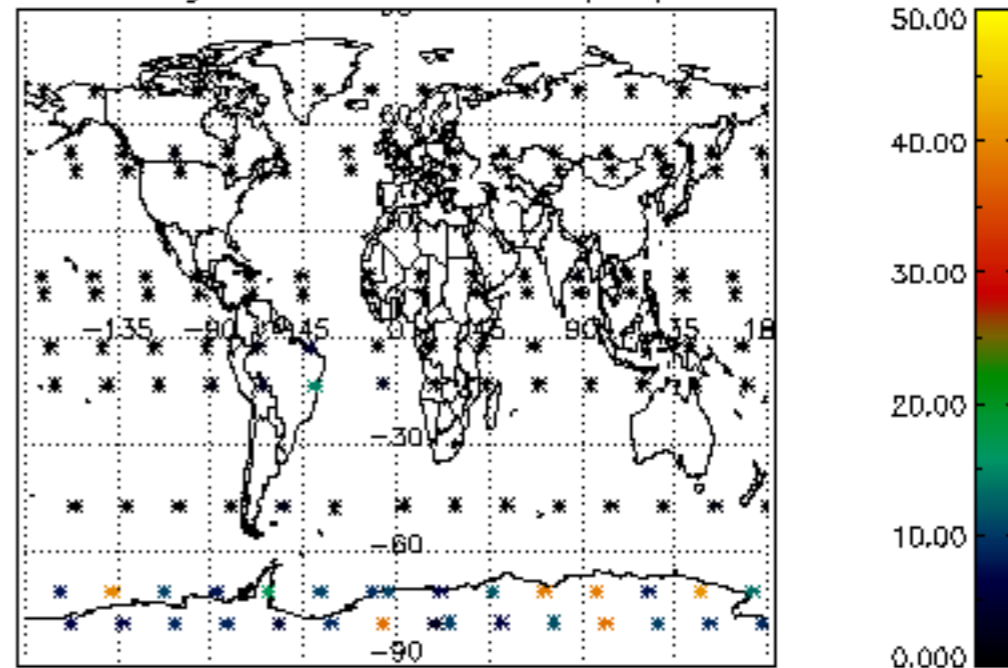
Percentage of datation errors per profile



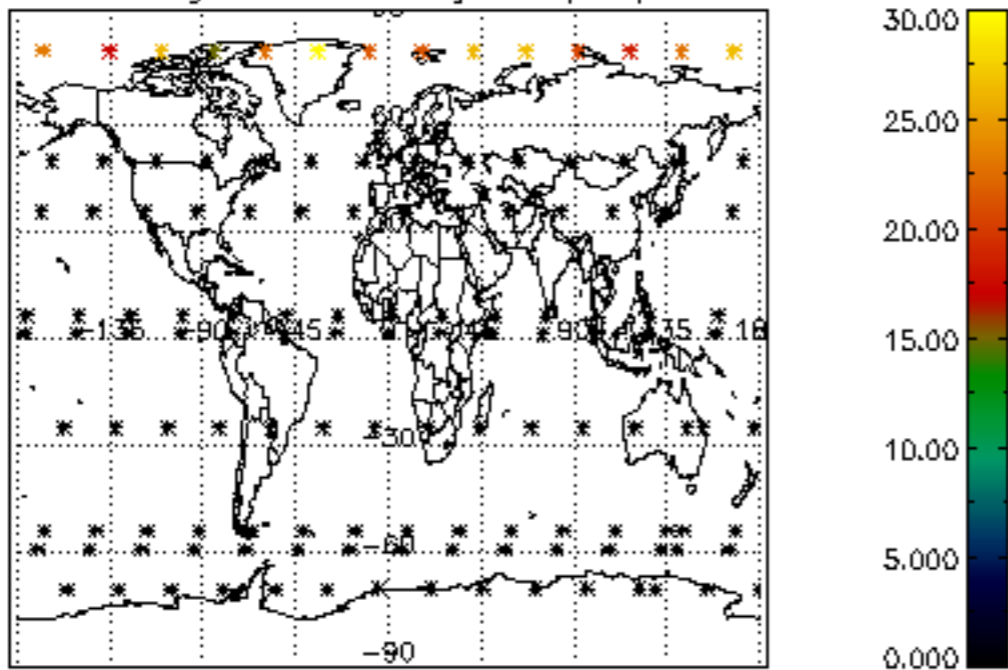
Percentage of star falling outside central band per profile



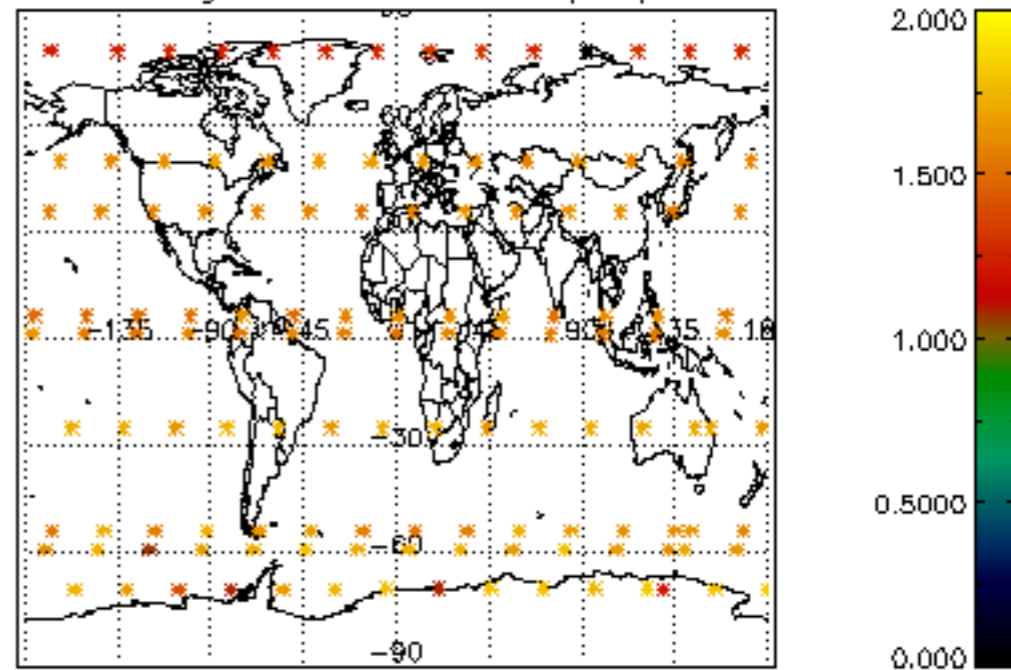
Percentage of saturation errors per profile



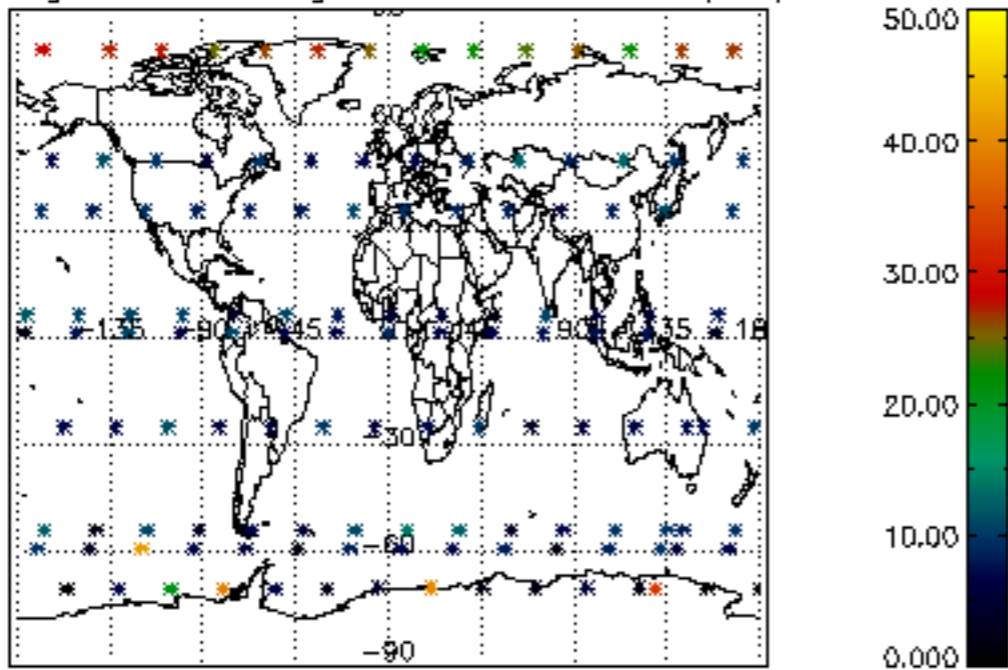
Percentage of cosmic ray hits per profile



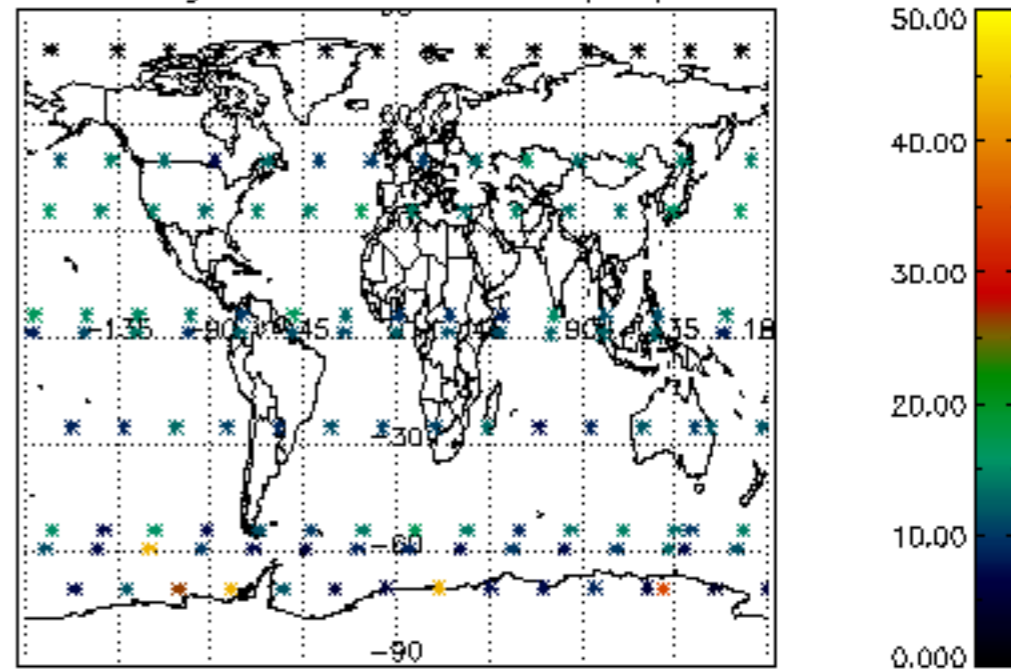
Percentage of datation errors per profile

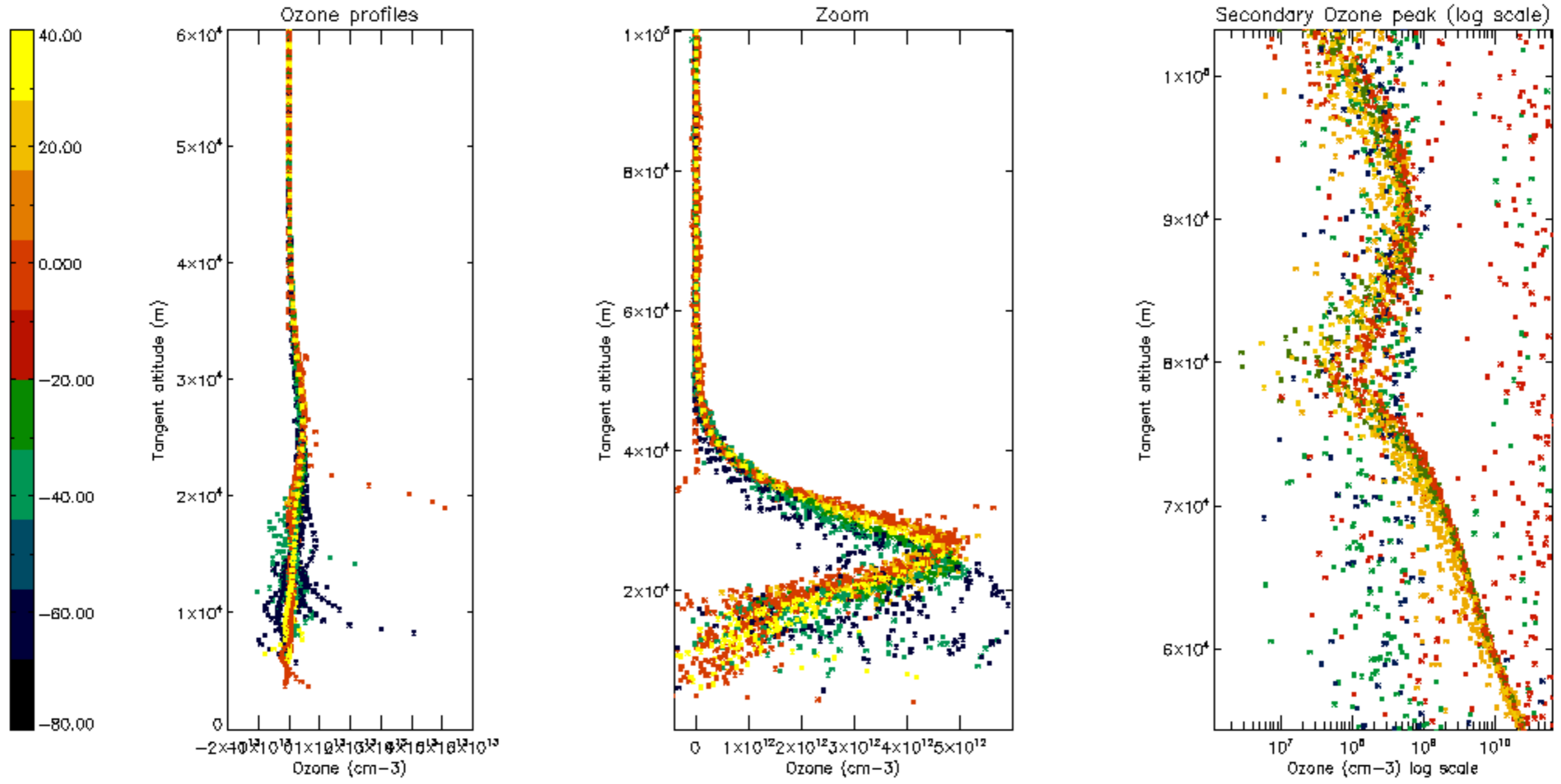


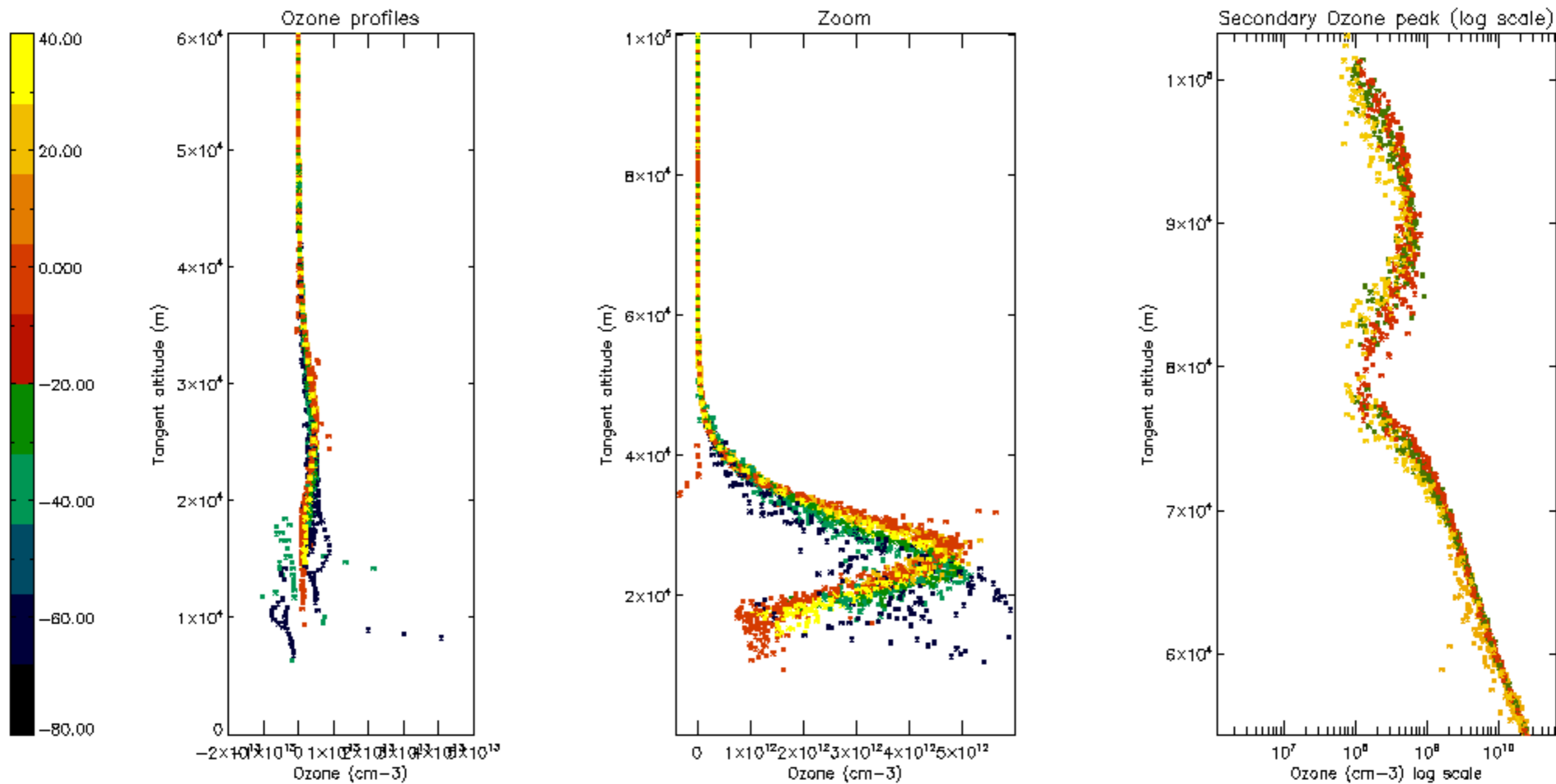
Percentage of star falling outside central band per profile

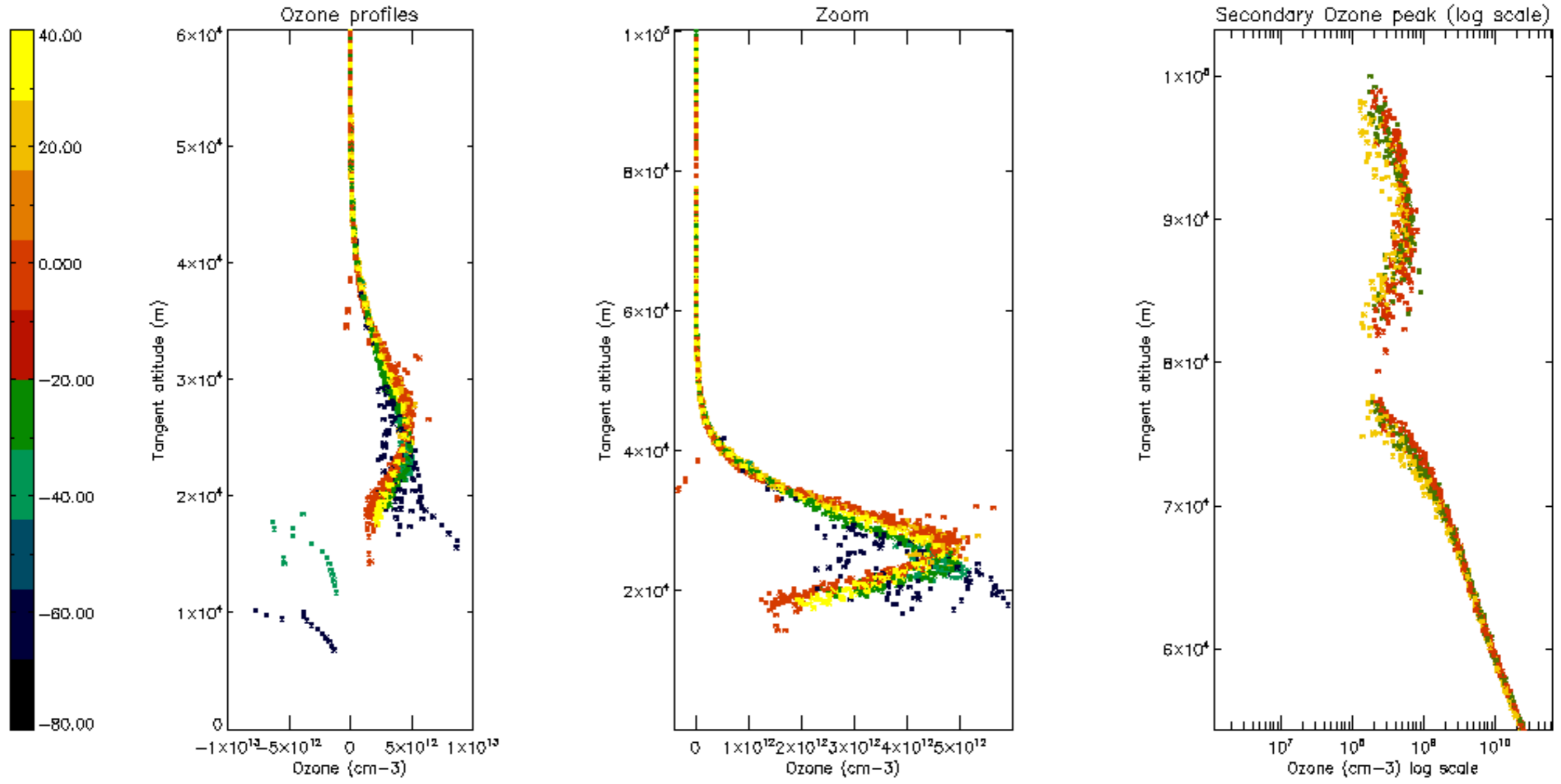


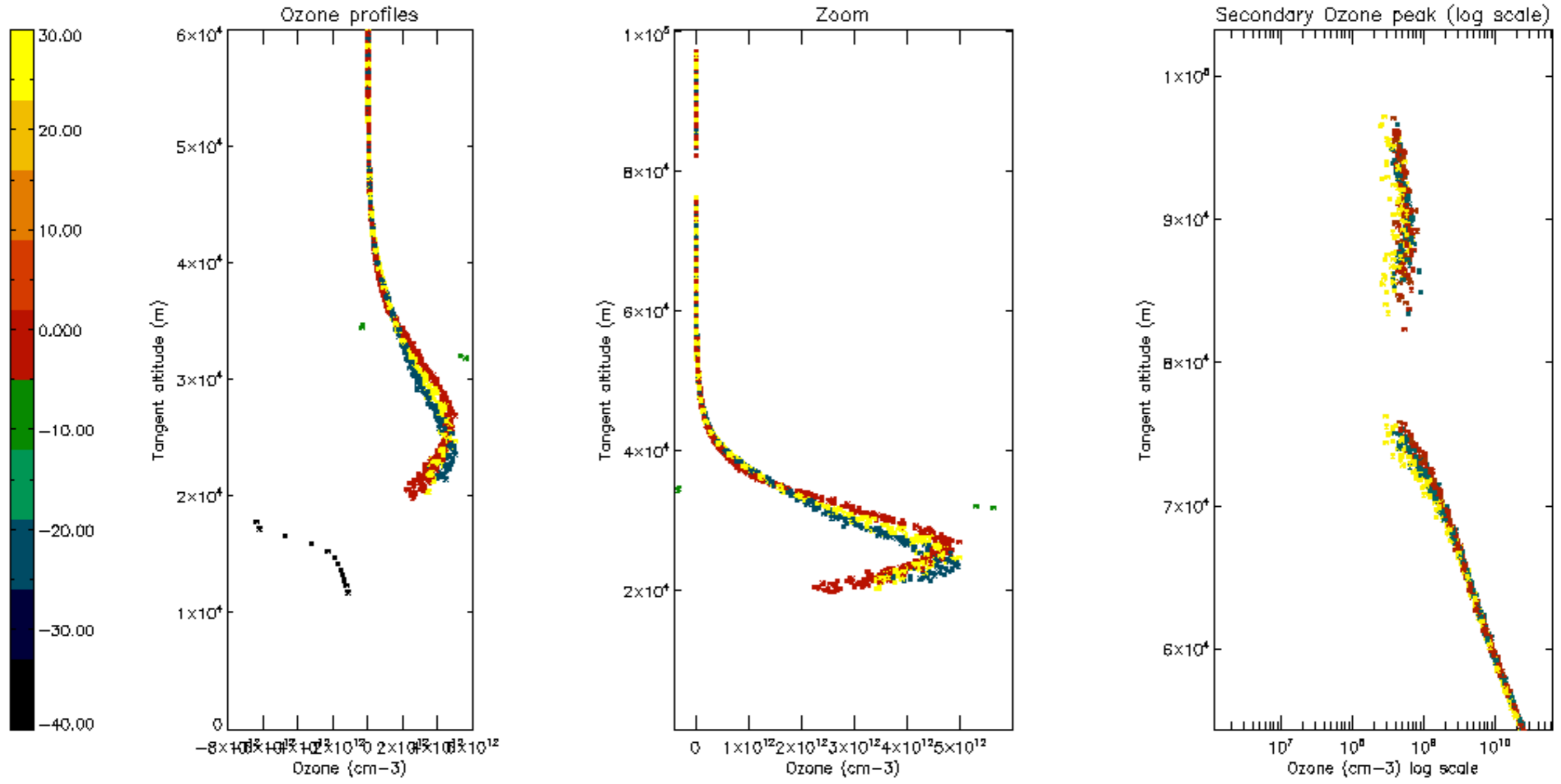
Percentage of saturation errors per profile



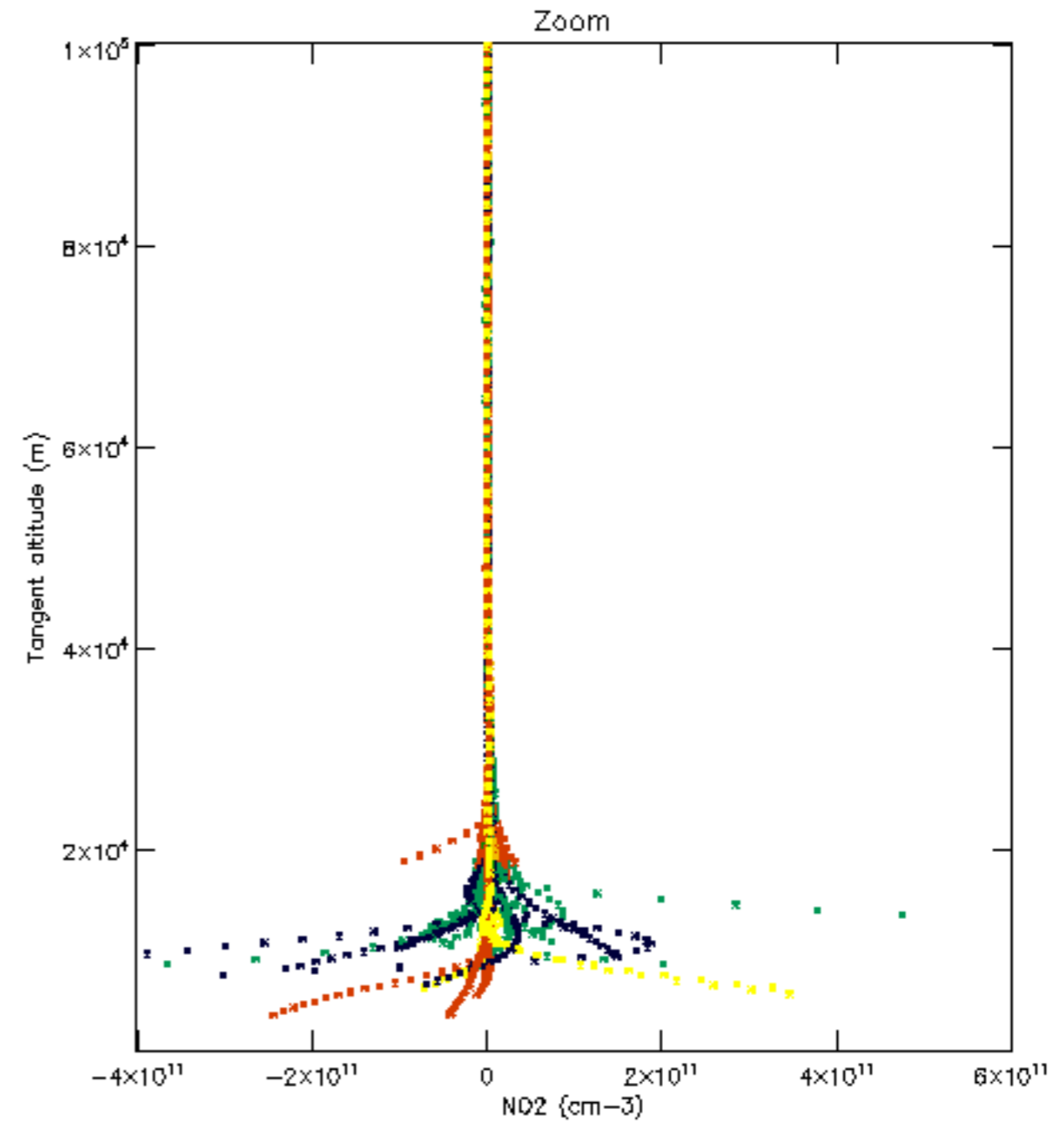
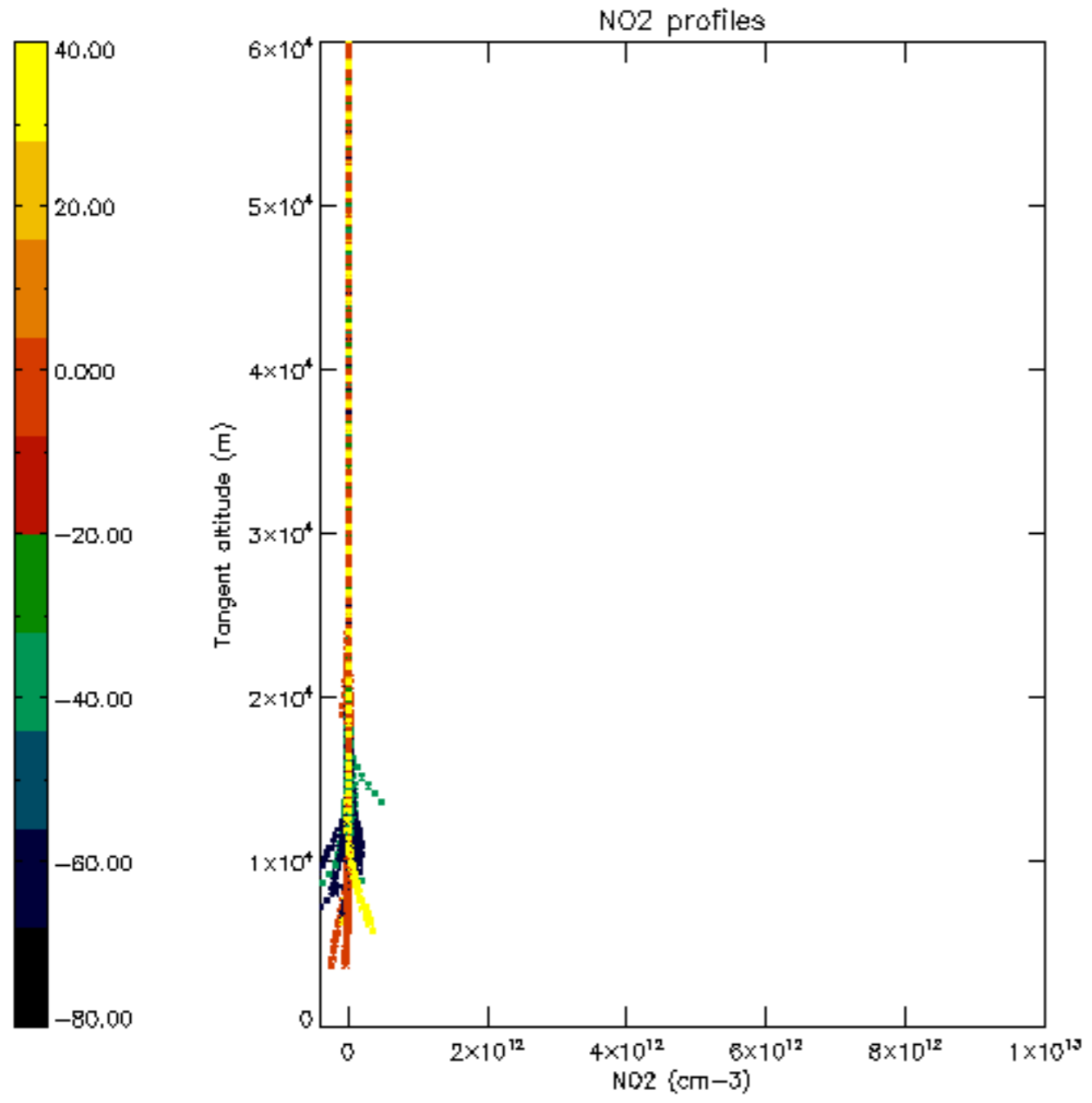


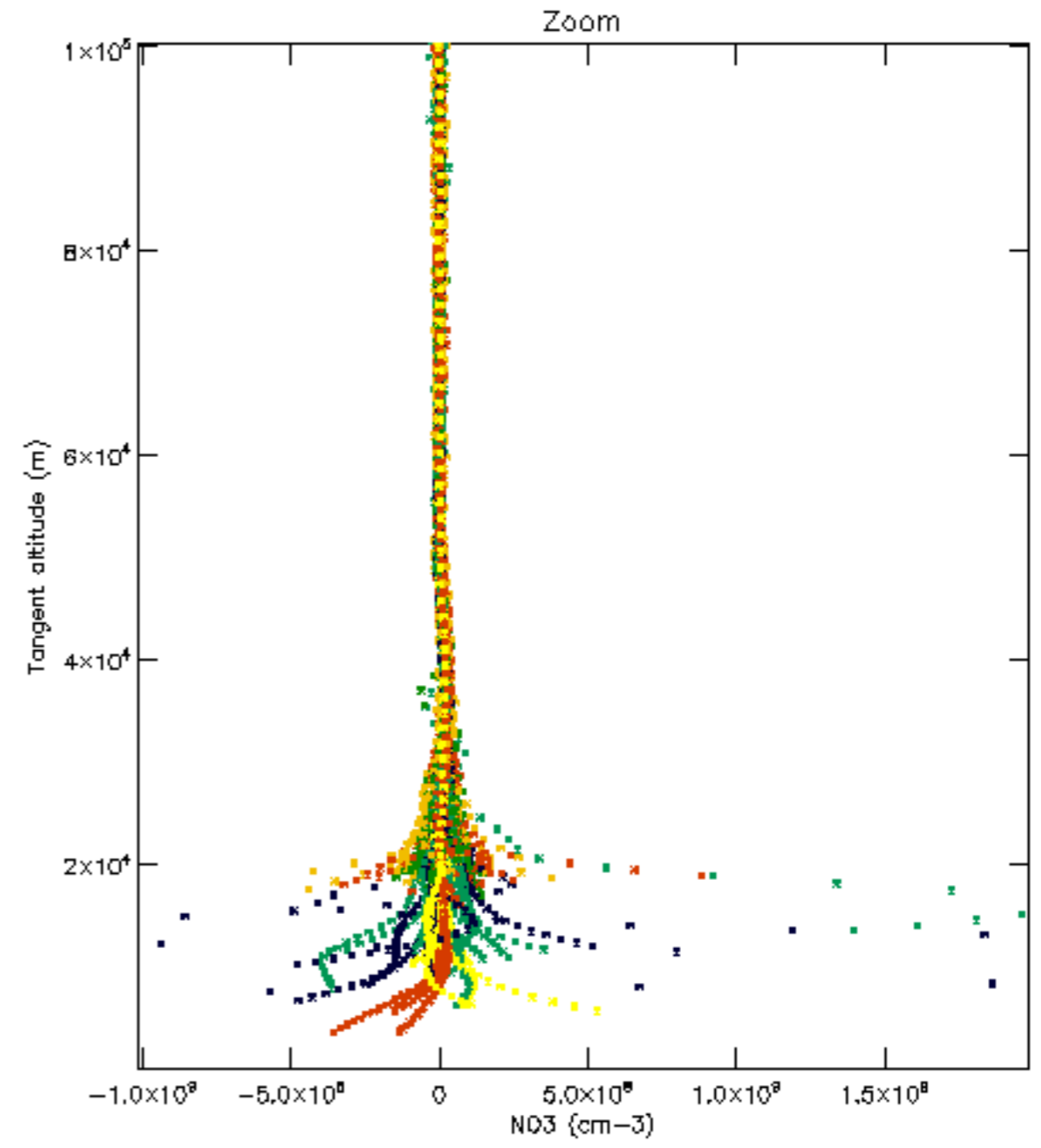
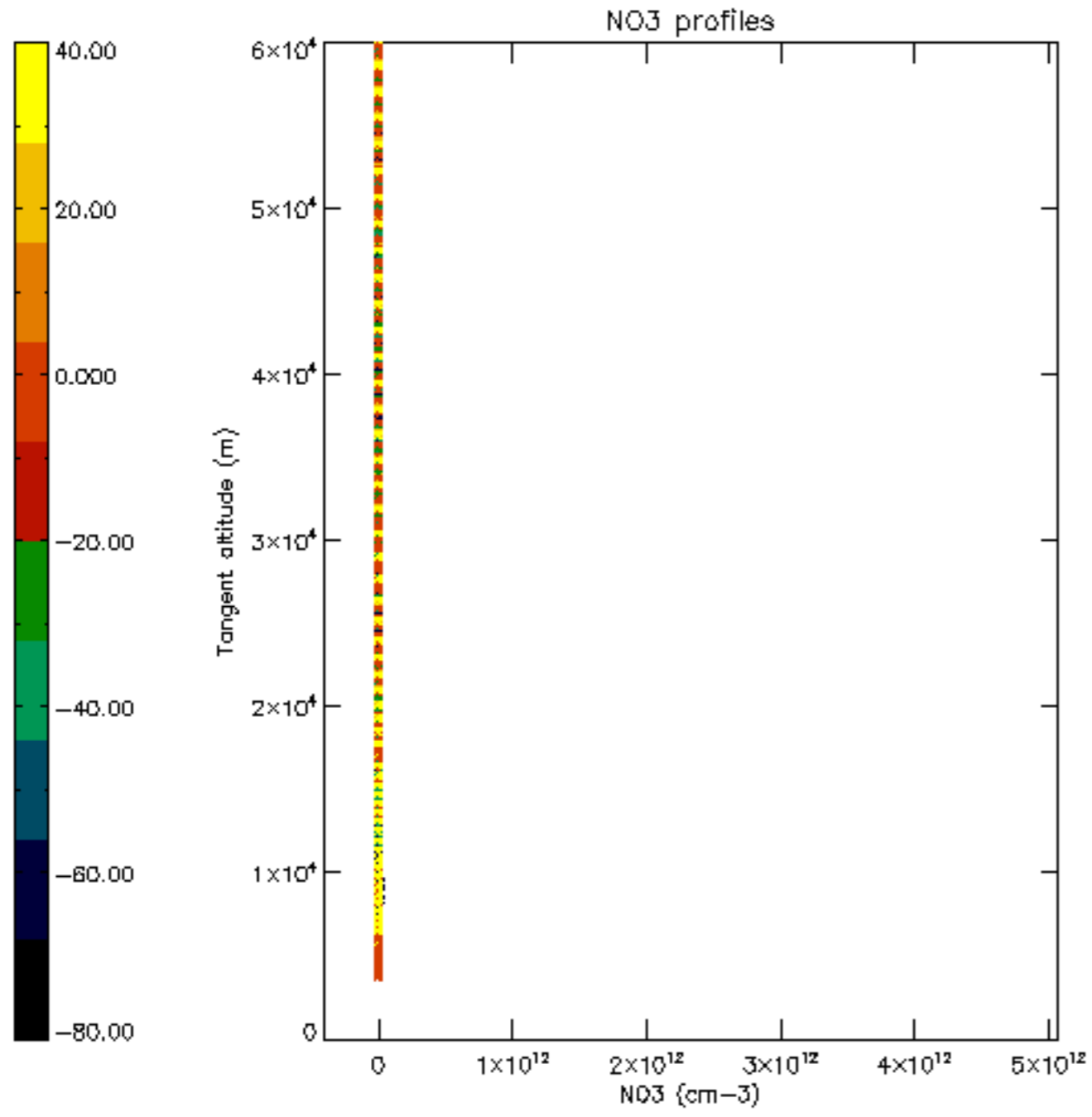


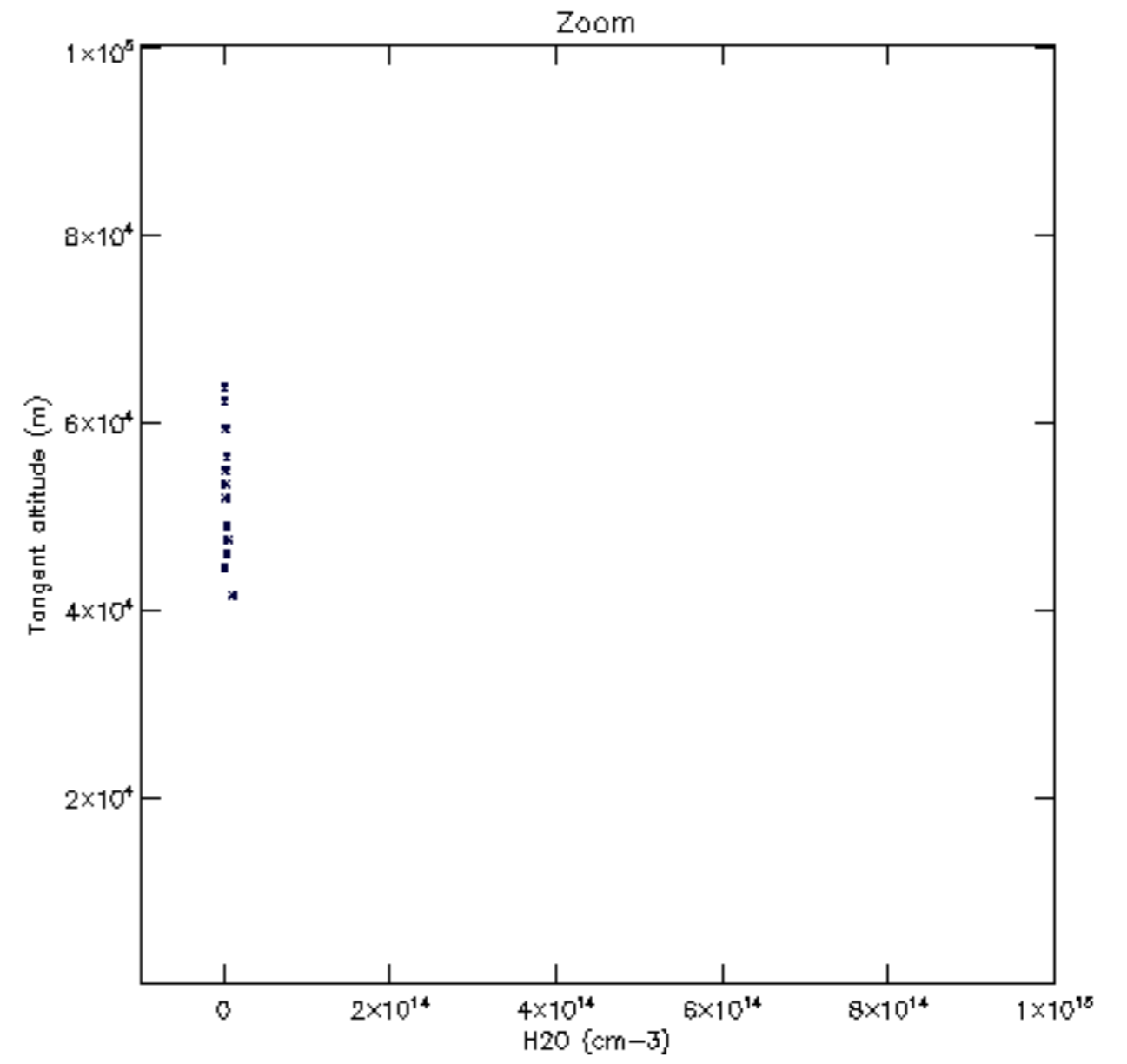
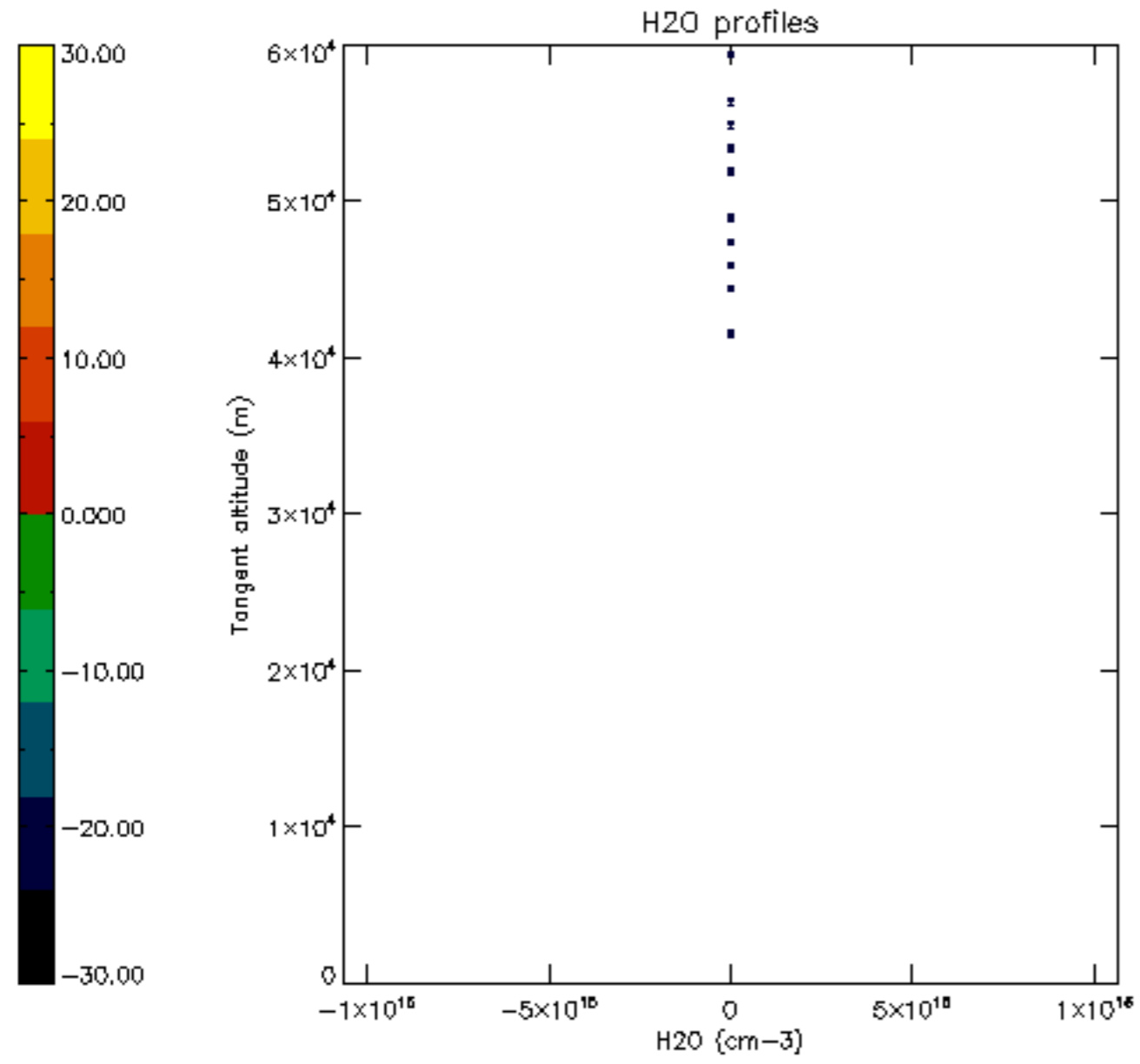


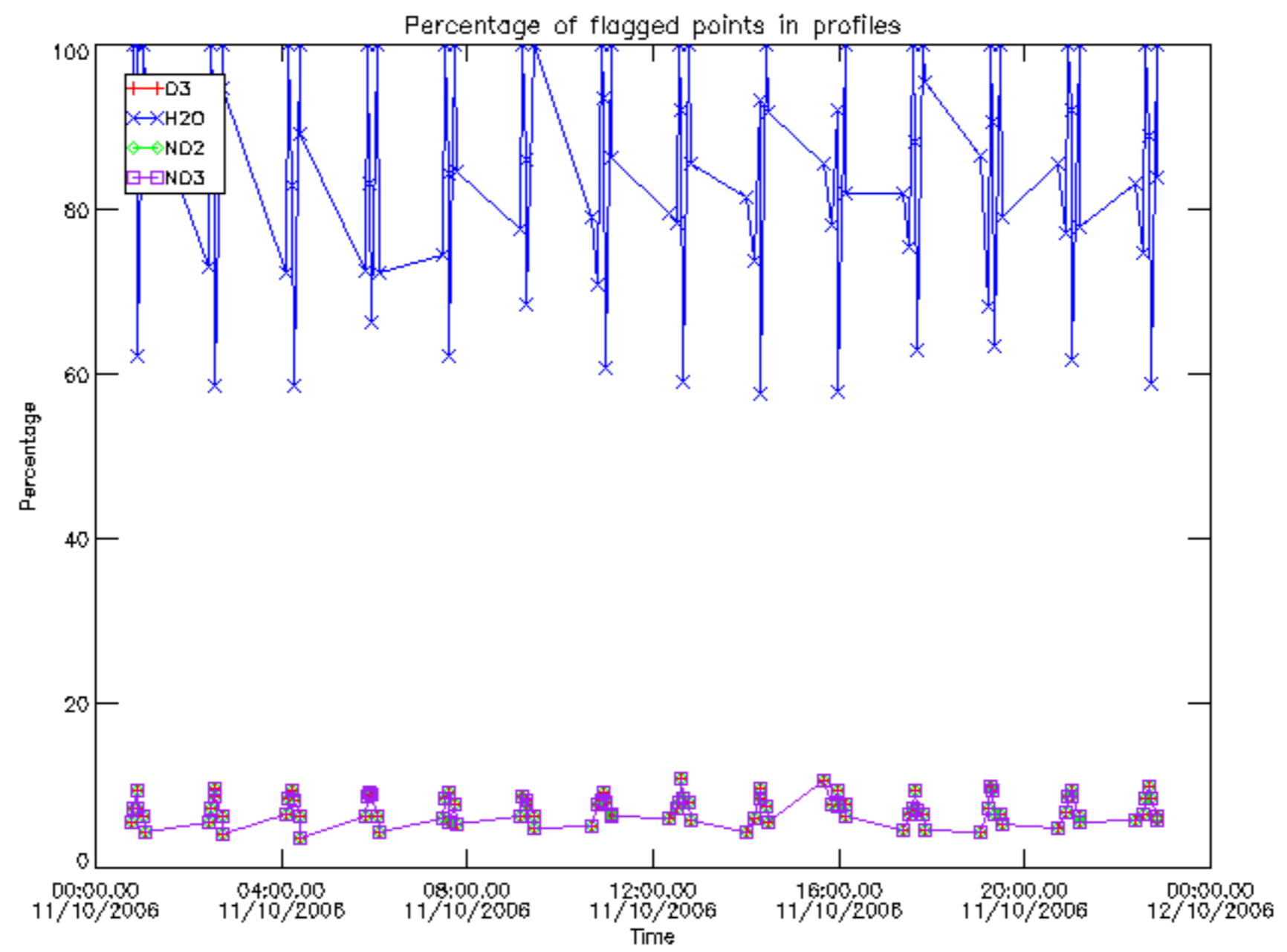




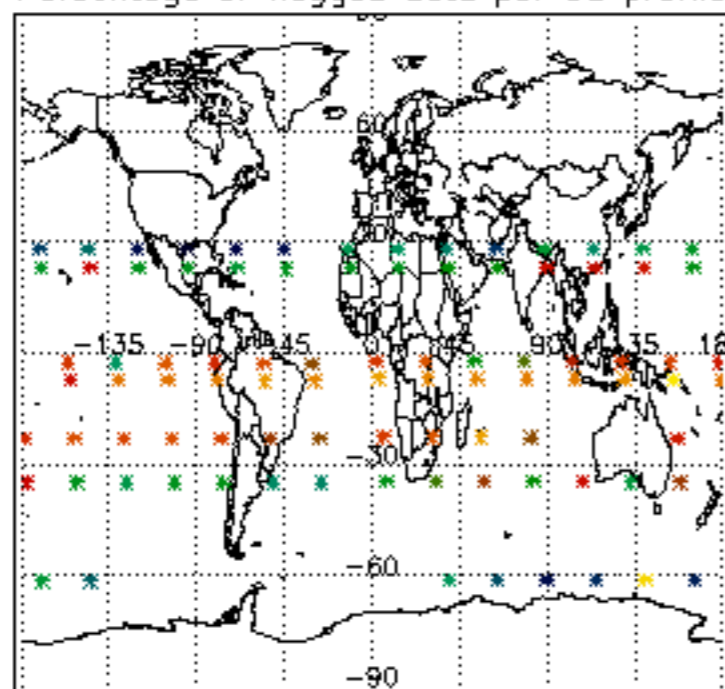




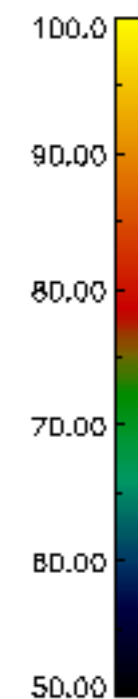
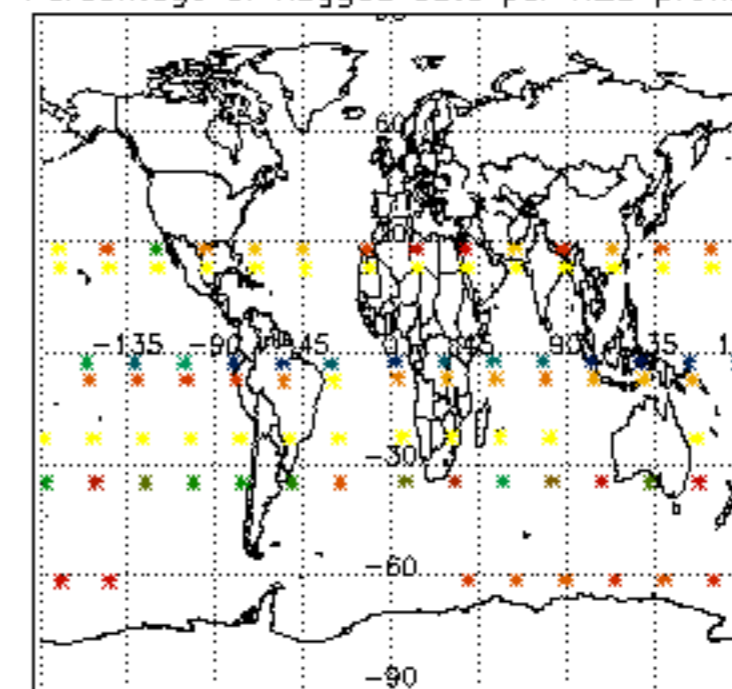




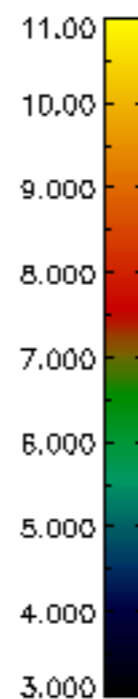
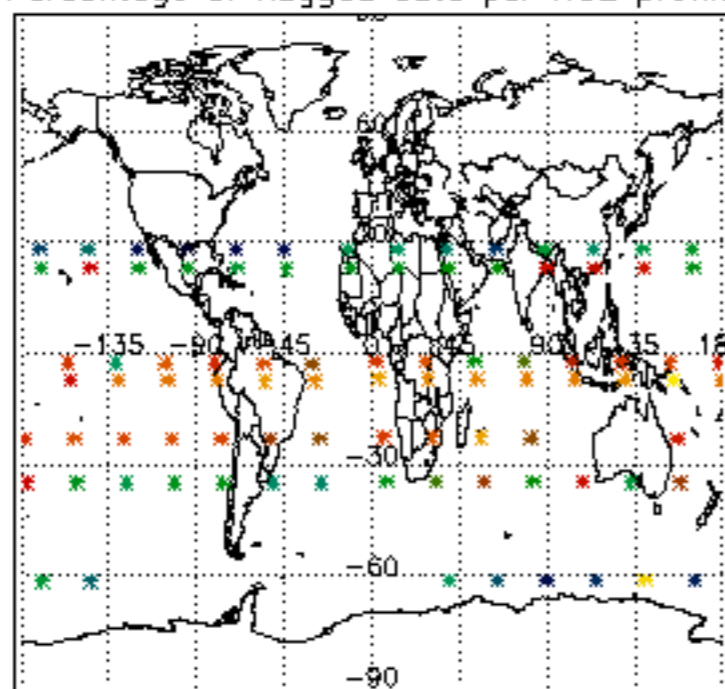
Percentage of flagged data per D3 profile



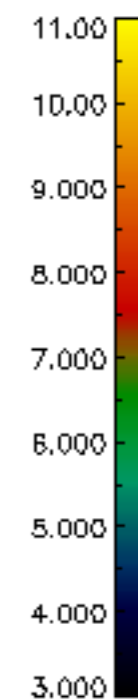
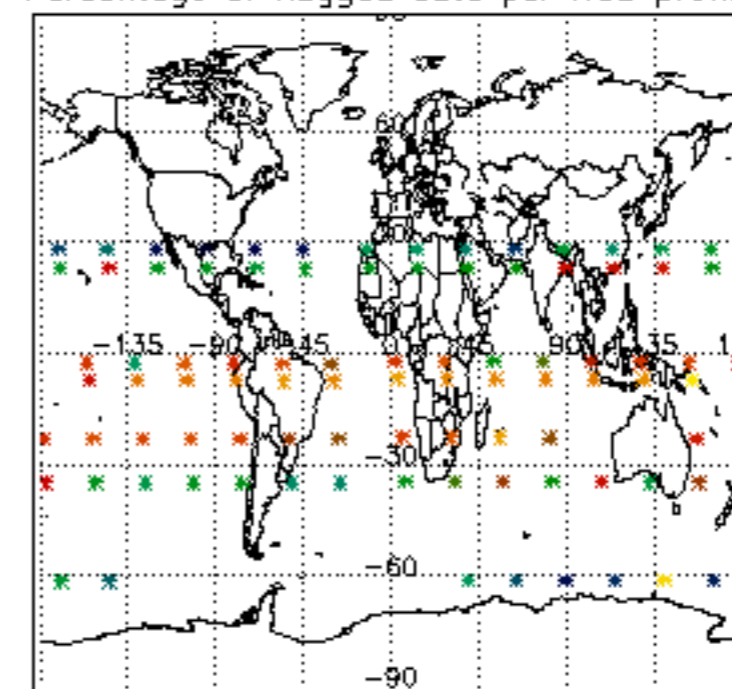
Percentage of flagged data per H2O profile

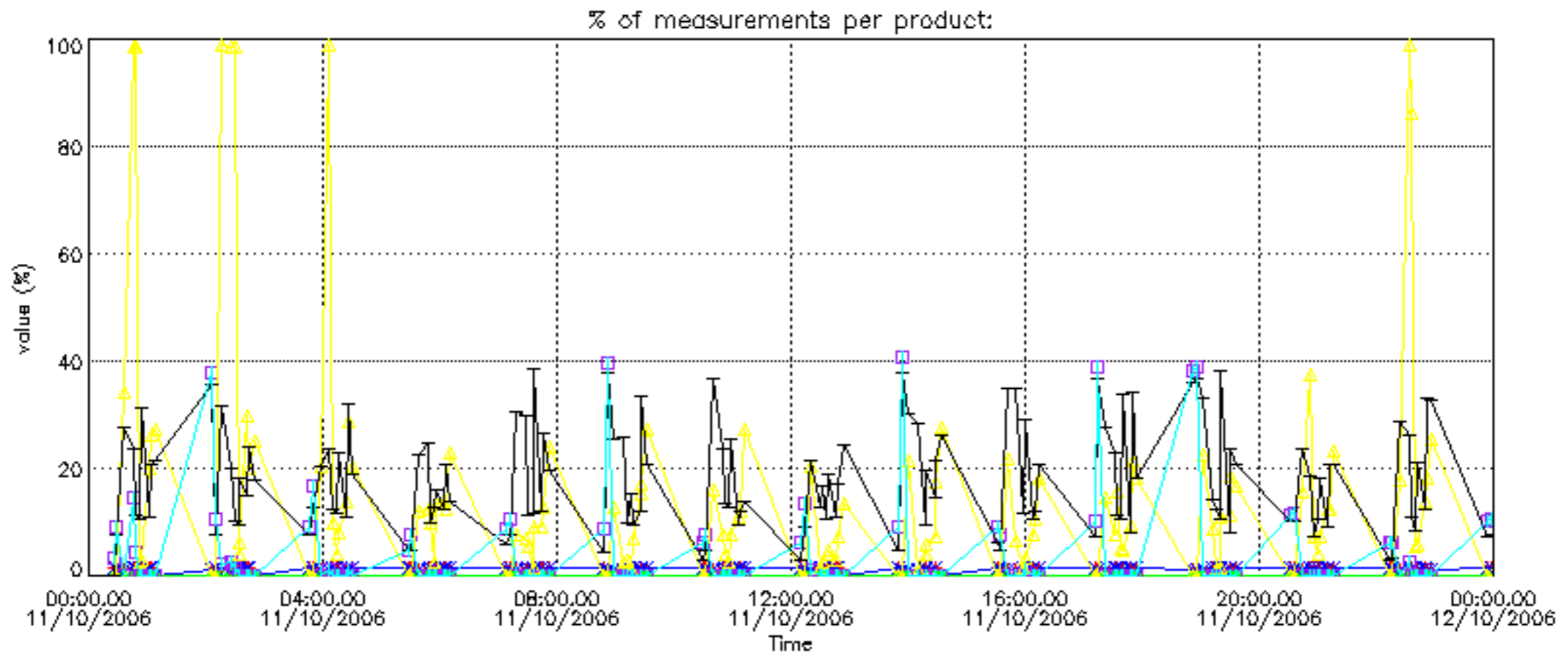


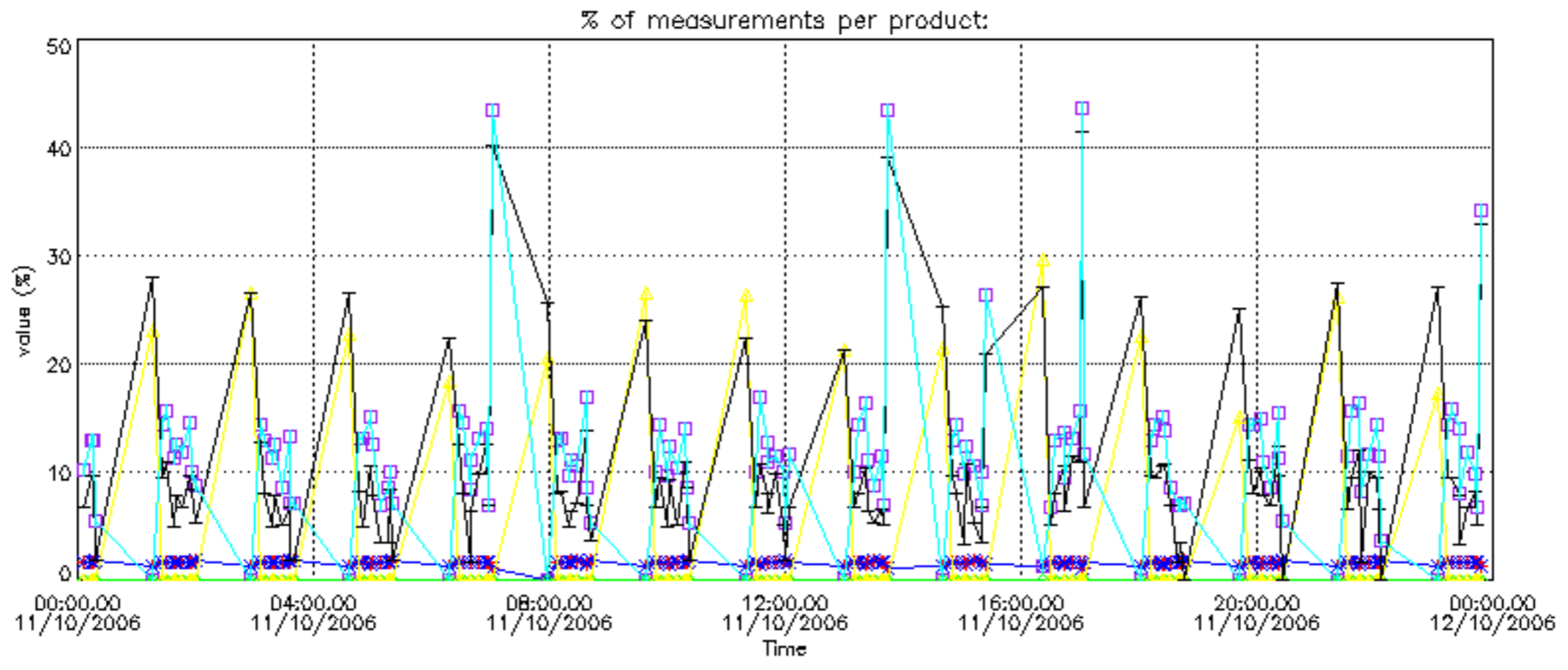
Percentage of flagged data per NO2 profile



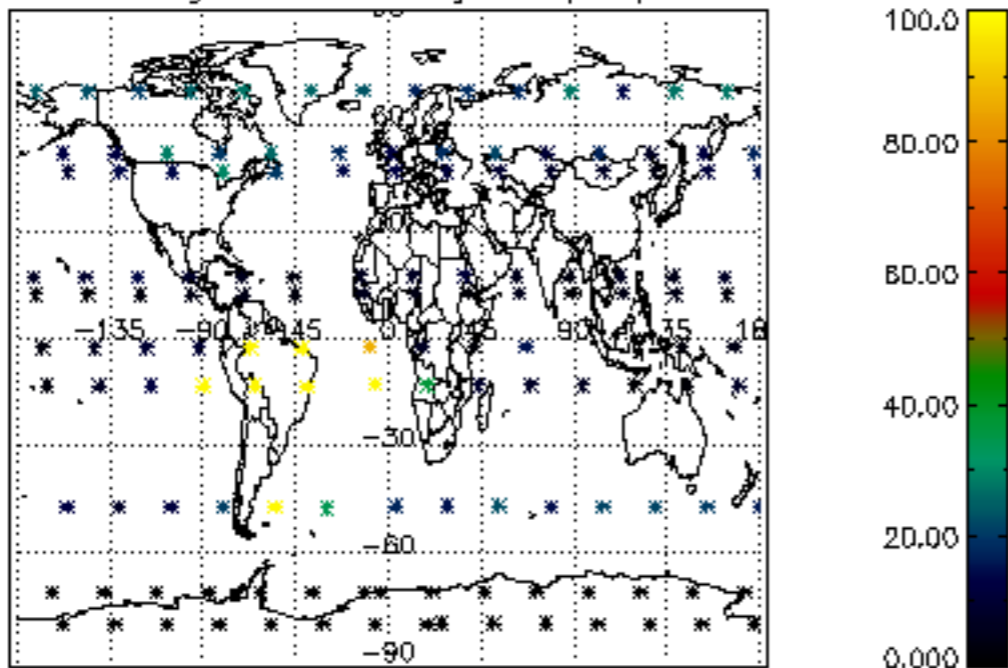
Percentage of flagged data per NO3 profile



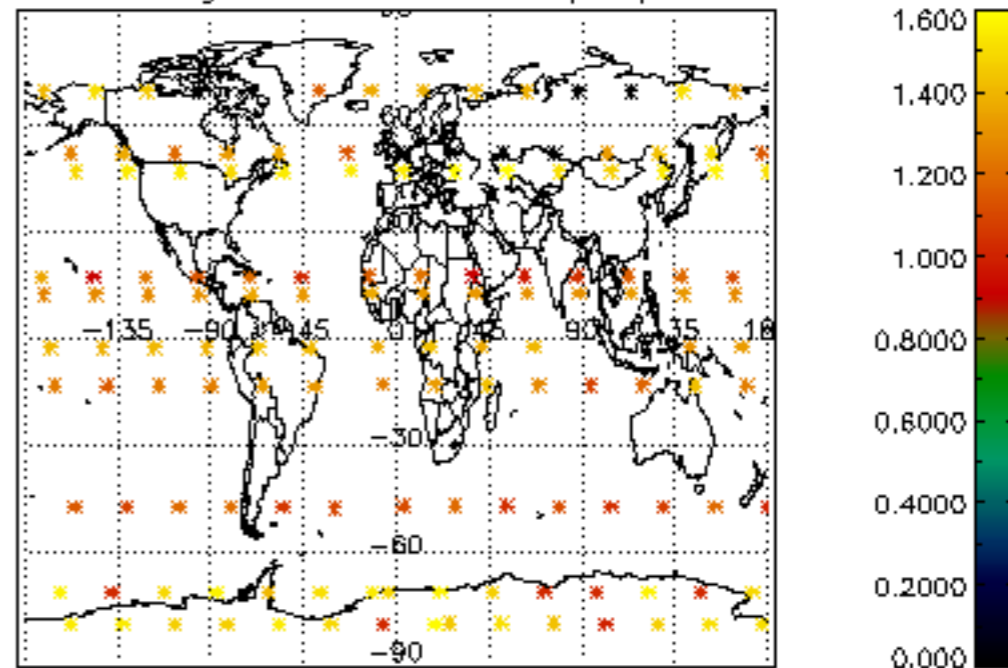




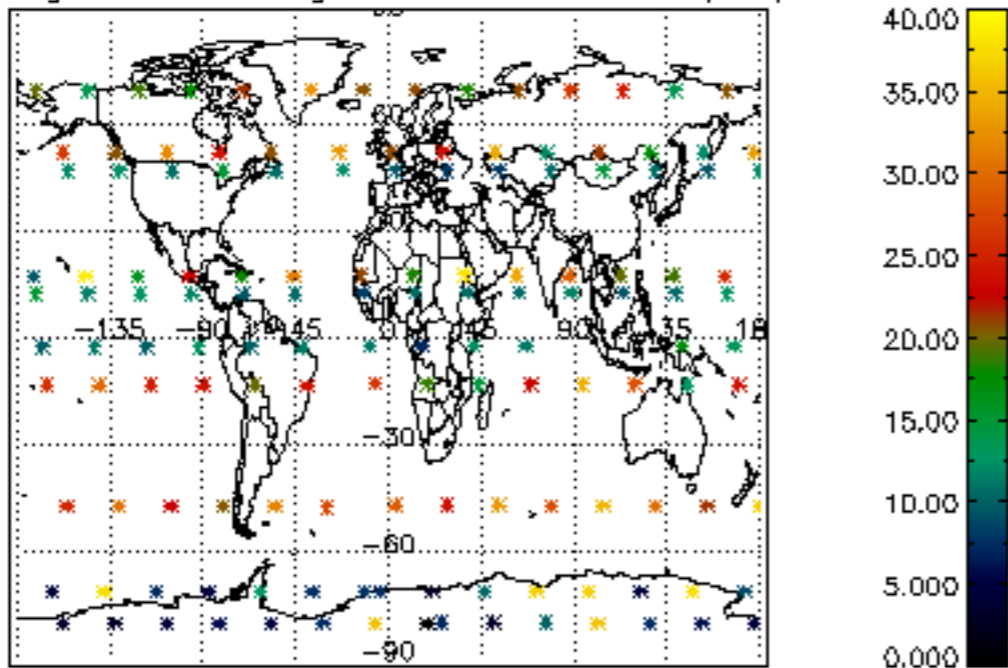
Percentage of cosmic ray hits per profile



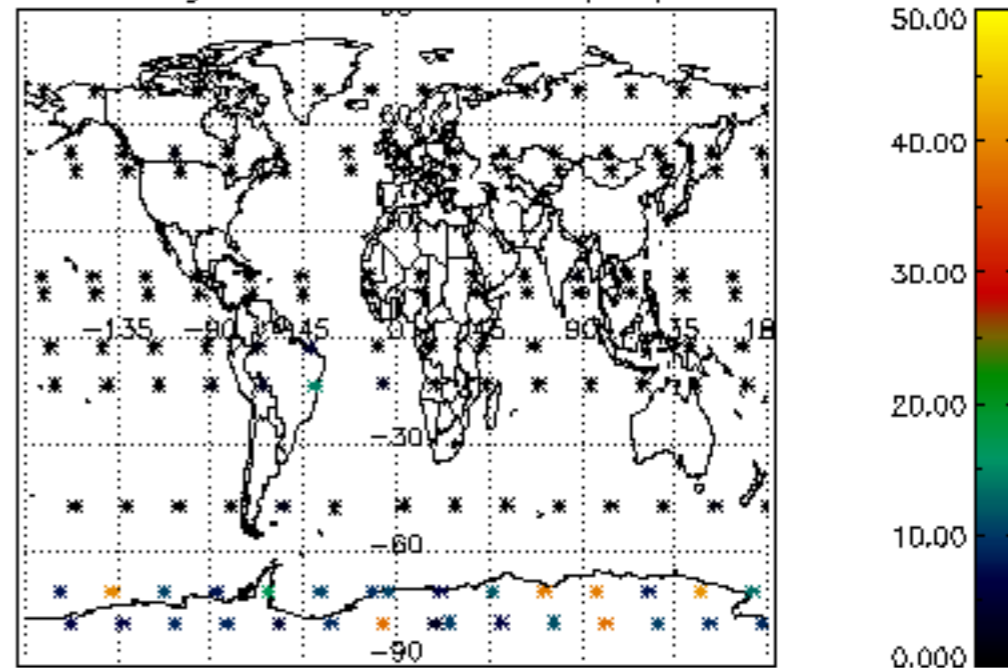
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

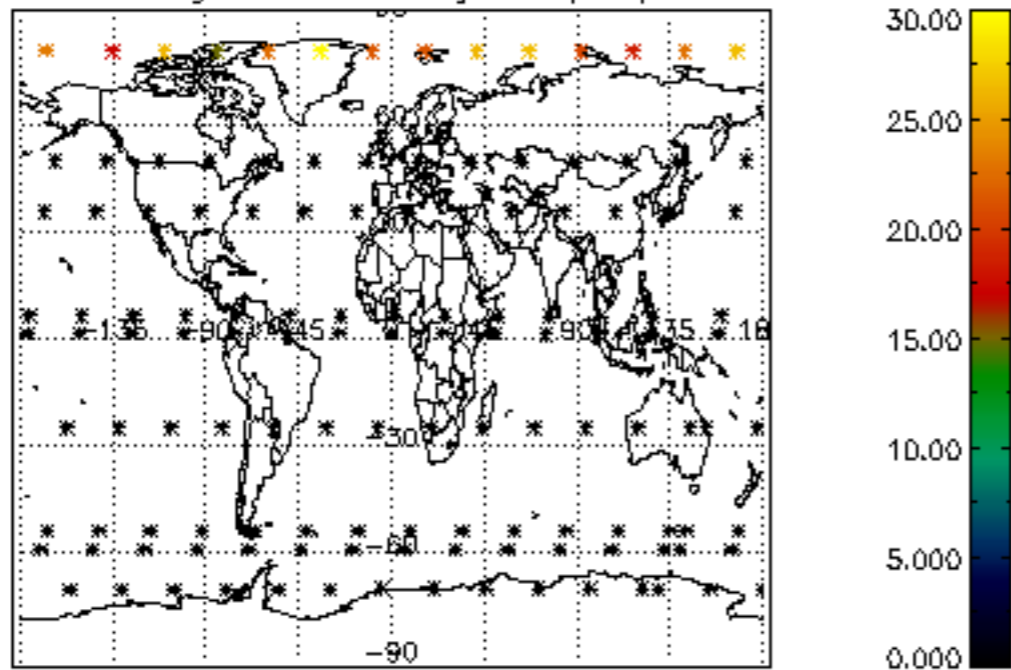


Percentage of saturation errors per profile

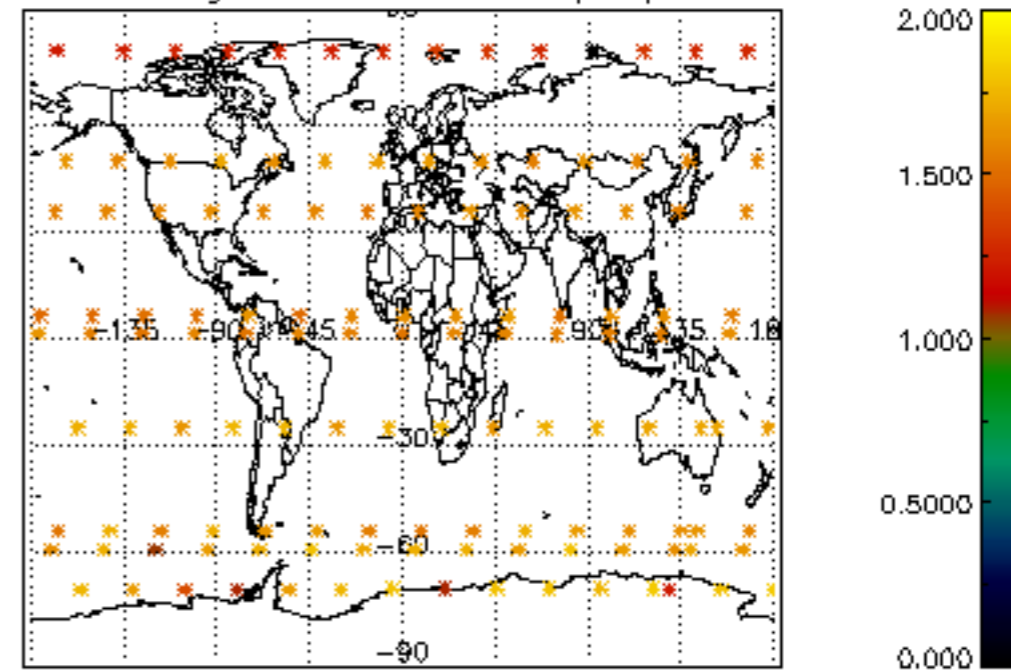




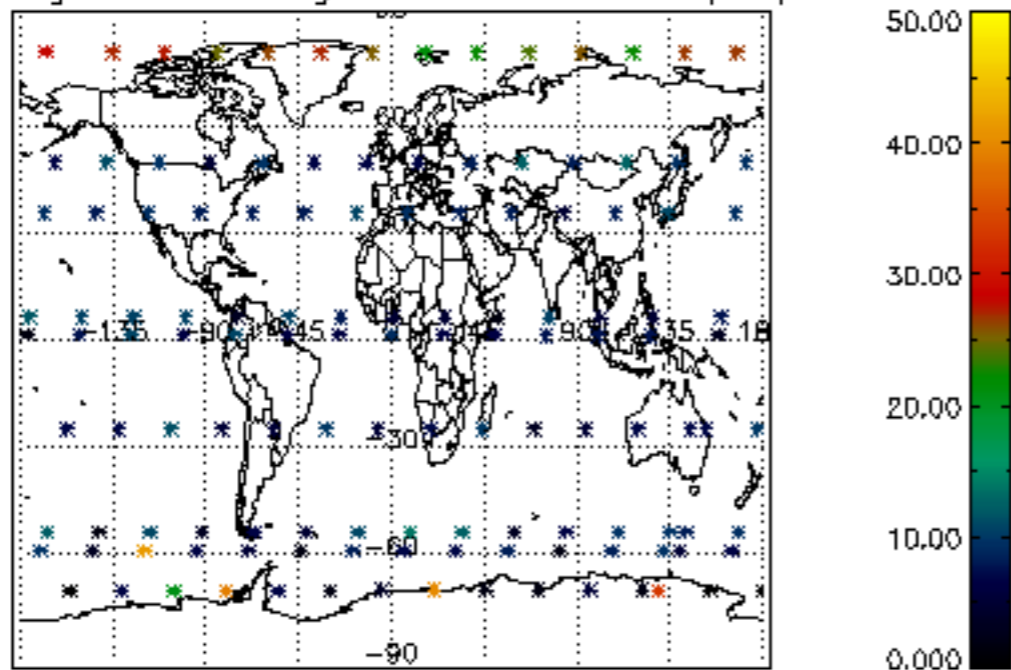
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

