

# 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	18APR2013 14:10:40
Data source version	GOMOS/6.01
Start time of products	06-03-2012 (06MAR2012 00:00:00)
Stop time of products	07-03-2012 (07MAR2012 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	28
Nb of prods with errors	0

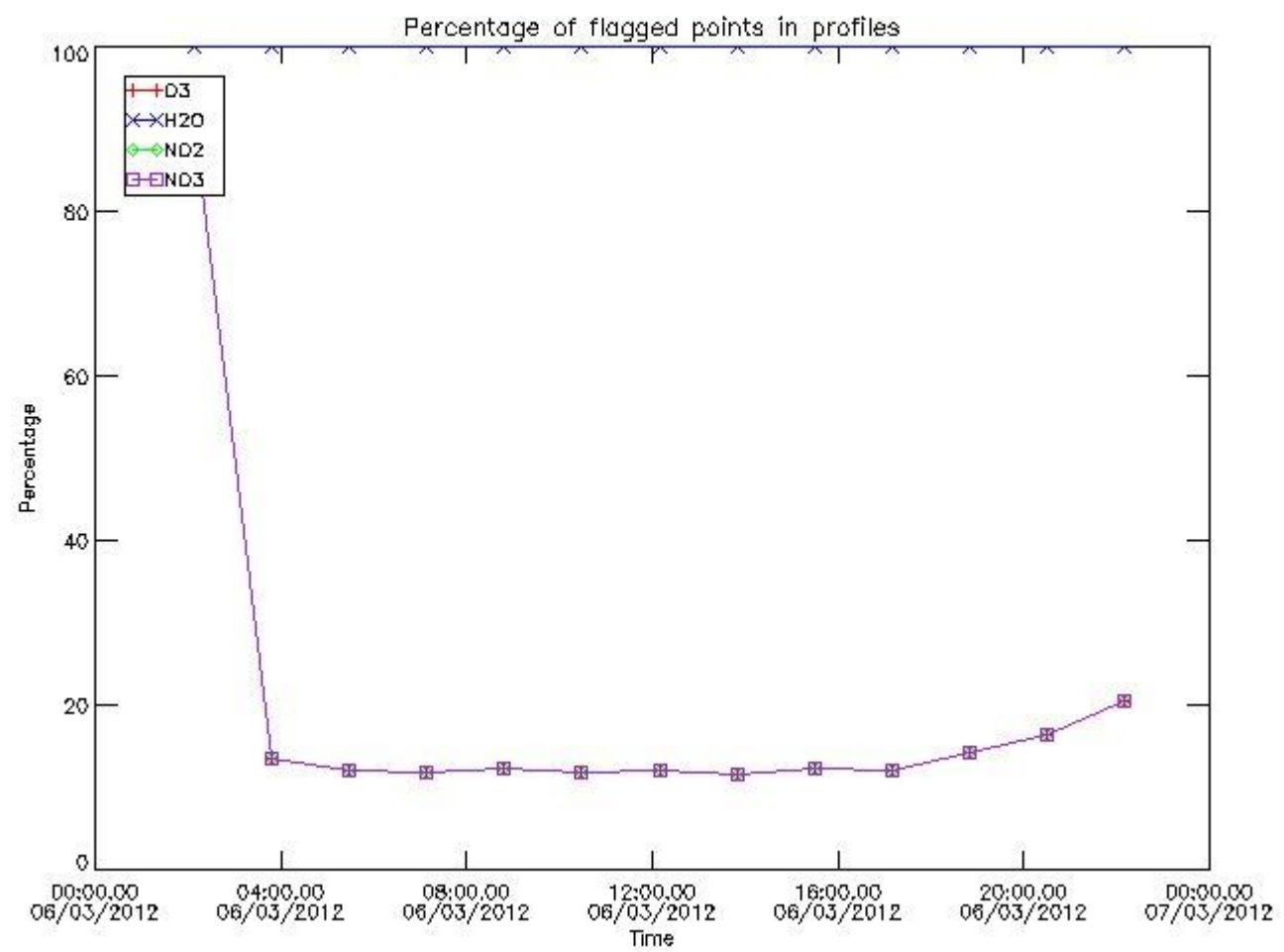
## 2. Summary of processed GOM\_NL\_\_2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20120306_001523_000000423112_00217_52386_0810.N1	06-MAR-2012 00:15:23	Bright	42.000	11	53Alp Aql	0.76500	8000.0	84	52386	No
2	GOM_NL__2PRFIN20120306_004951_000000423112_00218_52387_0826.N1	06-MAR-2012 00:49:51	Straylight	41.500	99	Del Cen	2.5750	26000.	83	52387	No
3	GOM_NL__2PRFIN20120306_015537_000000433112_00218_52387_0827.N1	06-MAR-2012 01:55:37	Bright	43.000	11	53Alp Aql	0.76500	8000.0	86	52387	No
4	GOM_NL__2PRFIN20120306_020741_000000423112_00218_52387_0828.N1	06-MAR-2012 02:07:41	Dark	41.500	103	38Zet Sgr	2.6000	9700.0	83	52387	No
5	GOM_NL__2PRFIN20120306_023005_000000393112_00219_52388_0829.N1	06-MAR-2012 02:30:05	Straylight	39.000	99	Del Cen	2.5750	26000.	78	52388	No
6	GOM_NL__2PRFIN20120306_033551_000000433112_00219_52388_0830.N1	06-MAR-2012 03:35:51	Bright	42.500	11	53Alp Aql	0.76500	8000.0	85	52388	No
7	GOM_NL__2PRFIN20120306_034757_000000423112_00219_52388_0831.N1	06-MAR-2012 03:47:57	Dark	41.500	103	38Zet Sgr	2.6000	9700.0	83	52388	No
8	GOM_NL__2PRFIN20120306_041020_000000393112_00220_52389_0858.N1	06-MAR-2012 04:10:20	Straylight	38.500	99	Del Cen	2.5750	26000.	77	52389	No
9	GOM_NL__2PRFIN20120306_051606_000000433112_00220_52389_0859.N1	06-MAR-2012 05:16:06	Bright	43.000	11	53Alp Aql	0.76500	8000.0	86	52389	No
10	GOM_NL__2PRFIN20120306_052810_000000423112_00220_52389_0860.N1	06-MAR-2012 05:28:10	Dark	42.000	103	38Zet Sgr	2.6000	9700.0	84	52389	No
11	GOM_NL__2PRFIN20120306_055034_000000443112_00221_52390_0867.N1	06-MAR-2012 05:50:34	Straylight	43.500	99	Del Cen	2.5750	26000.	87	52390	No
12	GOM_NL__2PRFIN20120306_065620_000000433112_00221_52390_0868.N1	06-MAR-2012 06:56:20	Bright	43.000	11	53Alp Aql	0.76500	8000.0	86	52390	No
13	GOM_NL__2PRFIN20120306_070825_000000443112_00221_52390_0869.N1	06-MAR-2012 07:08:25	Dark	43.500	103	38Zet Sgr	2.6000	9700.0	87	52390	No
14	GOM_NL__2PRFIN20120306_073049_000000413112_00222_52391_0896.N1	06-MAR-2012 07:30:49	Straylight	41.000	99	Del Cen	2.5750	26000.	82	52391	No
15	GOM_NL__2PRFIN20120306_083634_000000423112_00222_52391_0897.N1	06-MAR-2012 08:36:34	Bright	42.000	11	53Alp Aql	0.76500	8000.0	84	52391	No
16	GOM_NL__2PRFIN20120306_084839_000000413112_00222_52391_0898.N1	06-MAR-2012 08:48:39	Dark	41.000	103	38Zet Sgr	2.6000	9700.0	82	52391	No
17	GOM_NL__2PRFIN20120306_101649_000000433112_00223_52392_0930.N1	06-MAR-2012 10:16:49	Bright	43.000	11	53Alp Aql	0.76500	8000.0	86	52392	No
18	GOM_NL__2PRFIN20120306_102854_000000433112_00223_52392_0931.N1	06-MAR-2012 10:28:54	Dark	43.000	103	38Zet Sgr	2.6000	9700.0	86	52392	No
19	GOM_NL__2PRFIN20120306_115703_000000433112_00224_52393_0951.N1	06-MAR-2012 11:57:03	Bright	43.000	11	53Alp Aql	0.76500	8000.0	86	52393	No
20	GOM_NL__2PRFIN20120306_120908_000000423112_00224_52393_0952.N1	06-MAR-2012 12:09:08	Dark	42.000	103	38Zet Sgr	2.6000	9700.0	84	52393	No
21	GOM_NL__2PRFIN20120306_133717_000000433112_00225_52394_0983.N1	06-MAR-2012 13:37:17	Bright	43.000	11	53Alp Aql	0.76500	8000.0	86	52394	No
22	GOM_NL__2PRFIN20120306_134923_000000453112_00225_52394_0984.N1	06-MAR-2012 13:49:23	Dark	44.500	103	38Zet Sgr	2.6000	9700.0	89	52394	No
23	GOM_NL__2PRFIN20120306_151732_000000333112_00226_52395_1041.N1	06-MAR-2012 15:17:32	Bright	33.000	11	53Alp Aql	0.76500	8000.0	66	52395	No
24	GOM_NL__2PRFIN20120306_152937_000000423112_00226_52395_1042.N1	06-MAR-2012 15:29:37	Dark	41.500	103	38Zet Sgr	2.6000	9700.0	83	52395	No
25	GOM_NL__2PRFIN20120306_170952_000000423112_00227_52396_1115.N1	06-MAR-2012 17:09:52	Dark	42.000	103	38Zet Sgr	2.6000	9700.0	84	52396	No
26	GOM_NL__2PRFIN20120306_185006_000000363112_00228_52397_1121.N1	06-MAR-2012 18:50:06	Dark	36.000	103	38Zet Sgr	2.6000	9700.0	72	52397	No
27	GOM_NL__2PRFIN20120306_203021_000000313112_00229_52398_1147.N1	06-MAR-2012 20:30:21	Dark	31.000	103	38Zet Sgr	2.6000	9700.0	62	52398	No
28	GOM_NL__2PRFIN20120306_221035_000000253112_00230_52399_1211.N1	06-MAR-2012 22:10:35	Dark	25.000	103	38Zet Sgr	2.6000	9700.0	50	52399	No

## 3. Quality information per product

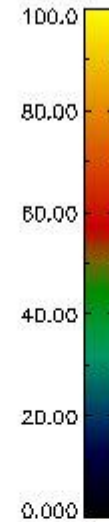
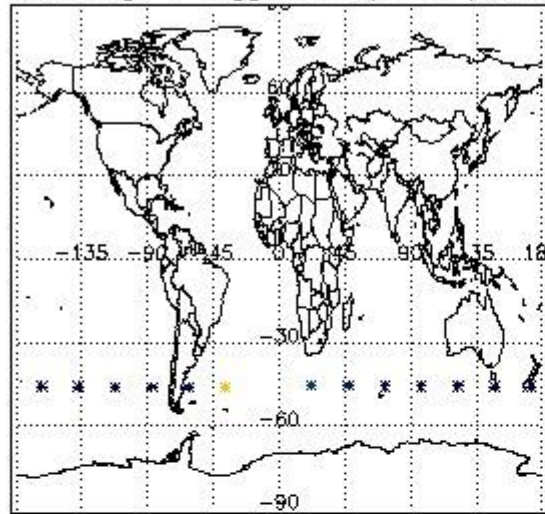
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

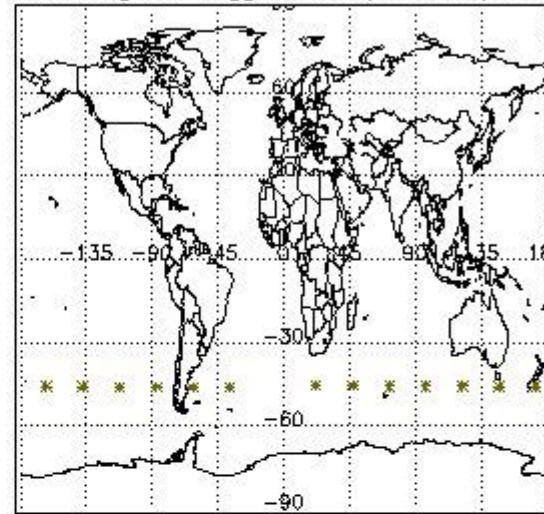


*3.2 Plot quality information per product (world map)*

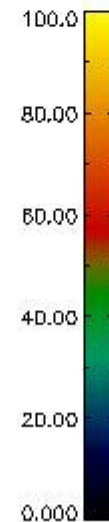
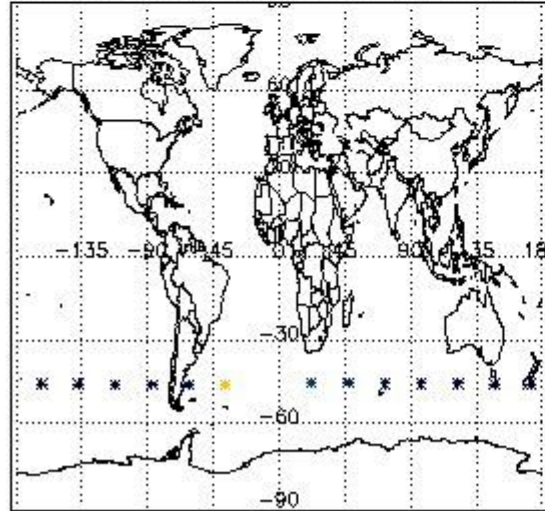
Percentage of flagged data per O3 profile



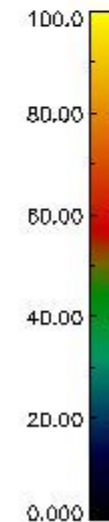
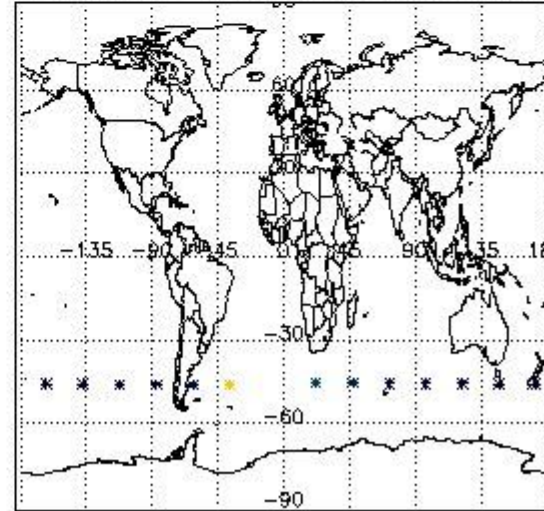
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

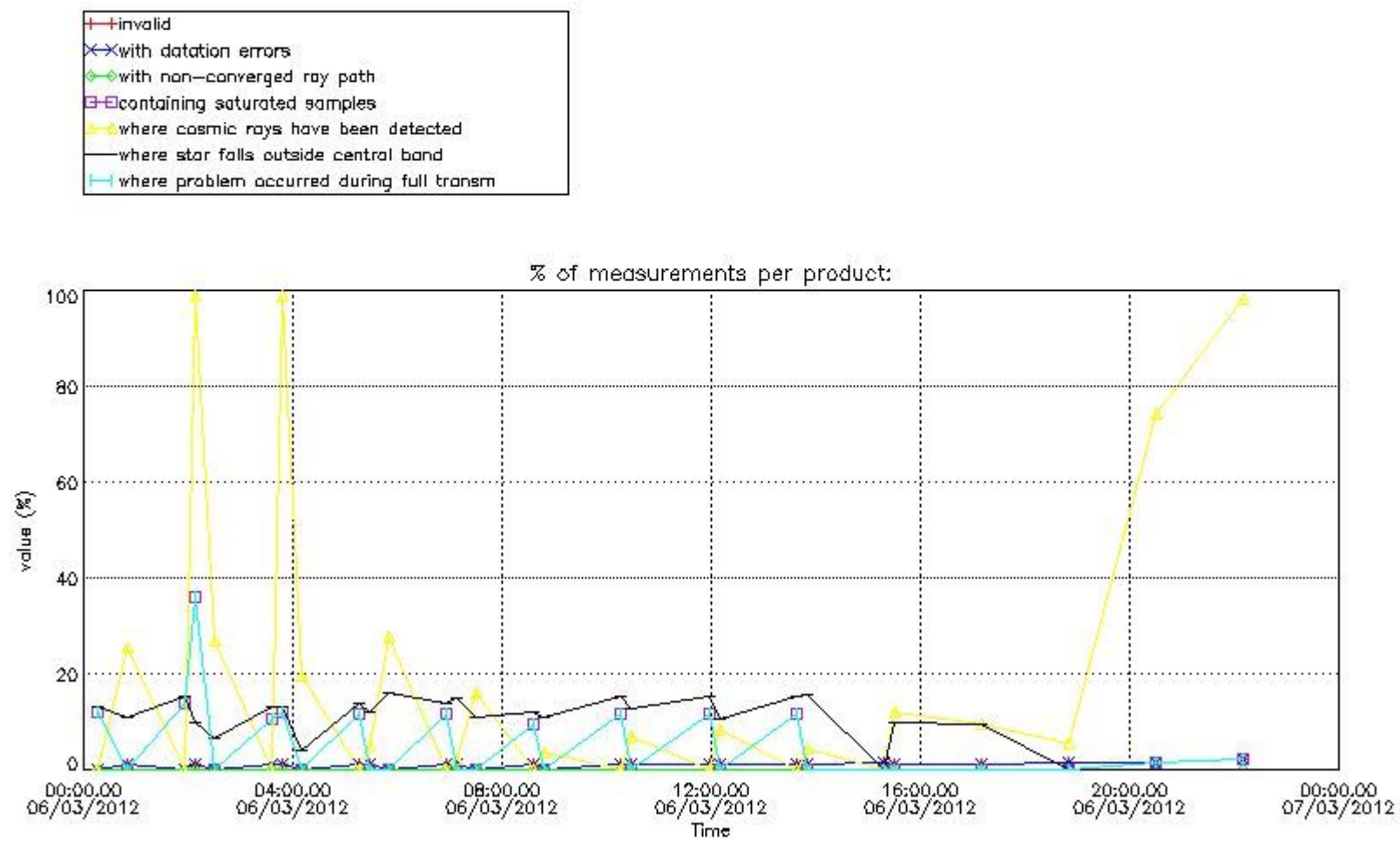


#### 4. Level 1 quality information per product

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

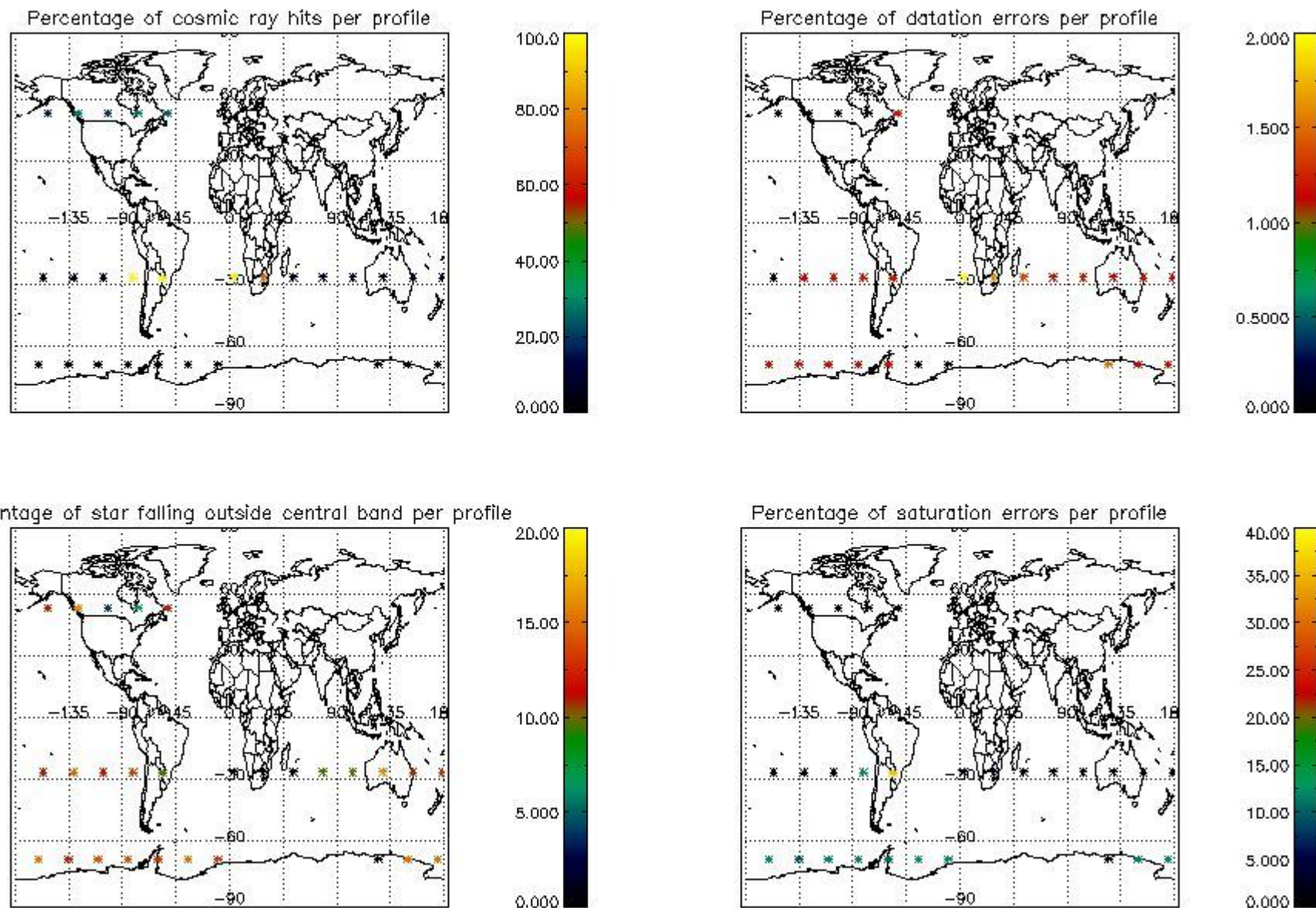


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

!Warning: No products without errors in descending found

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

**!Warning: No products without errors in descending found**

### 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:

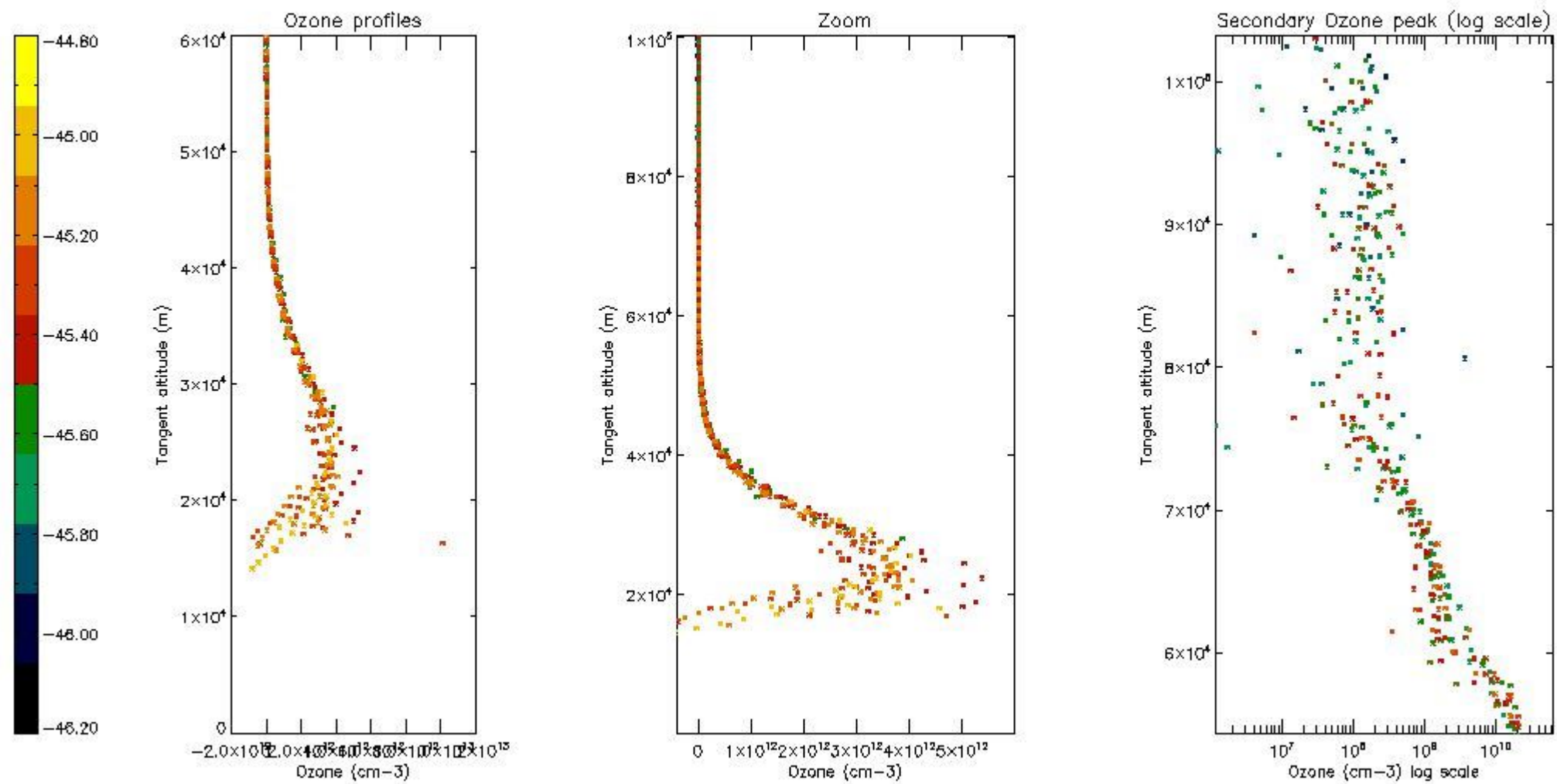
- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

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	43.000
STD < 20	16.000
STD < 10	9.0000
STD < 5	NaN

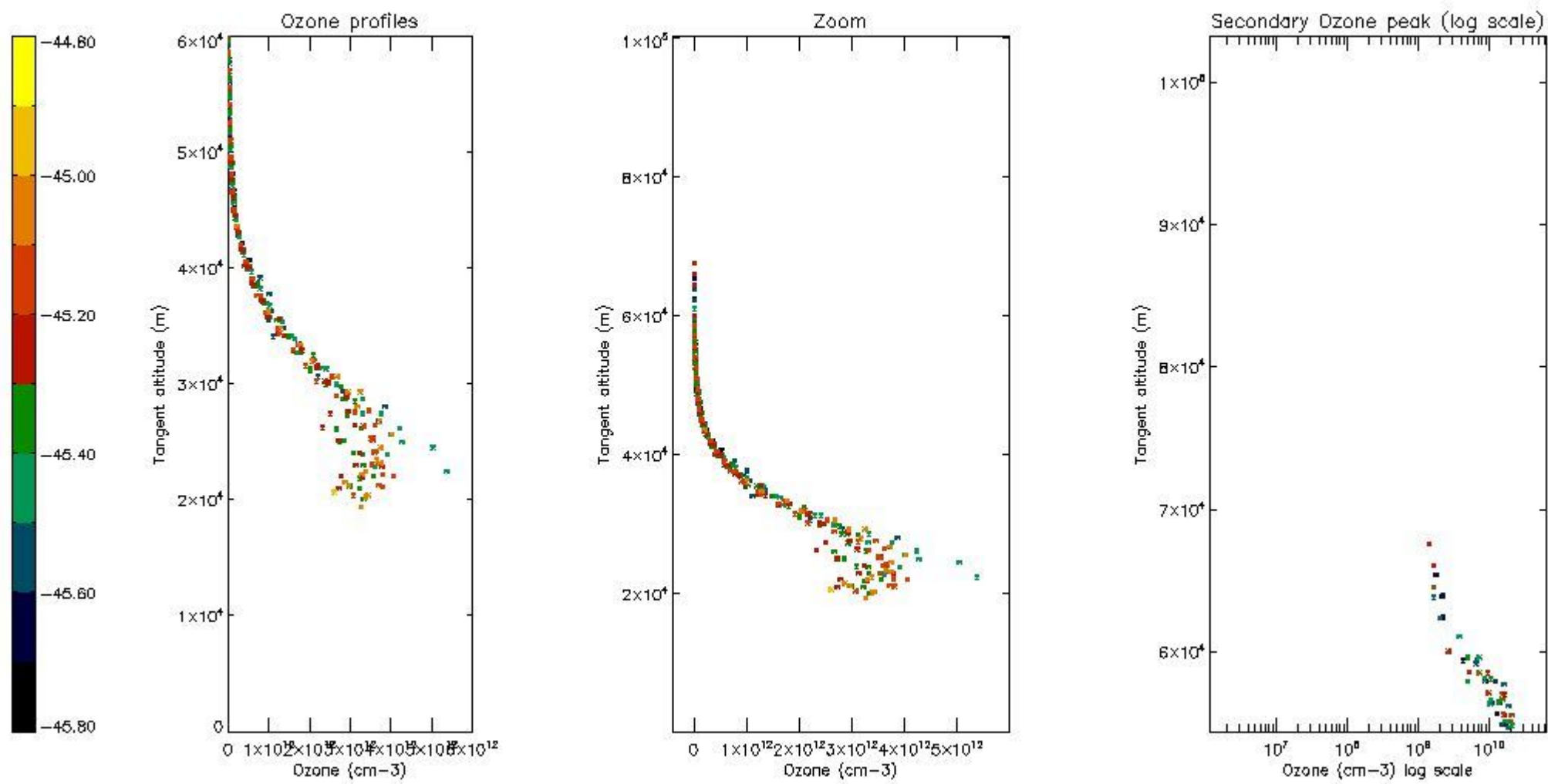
### 5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

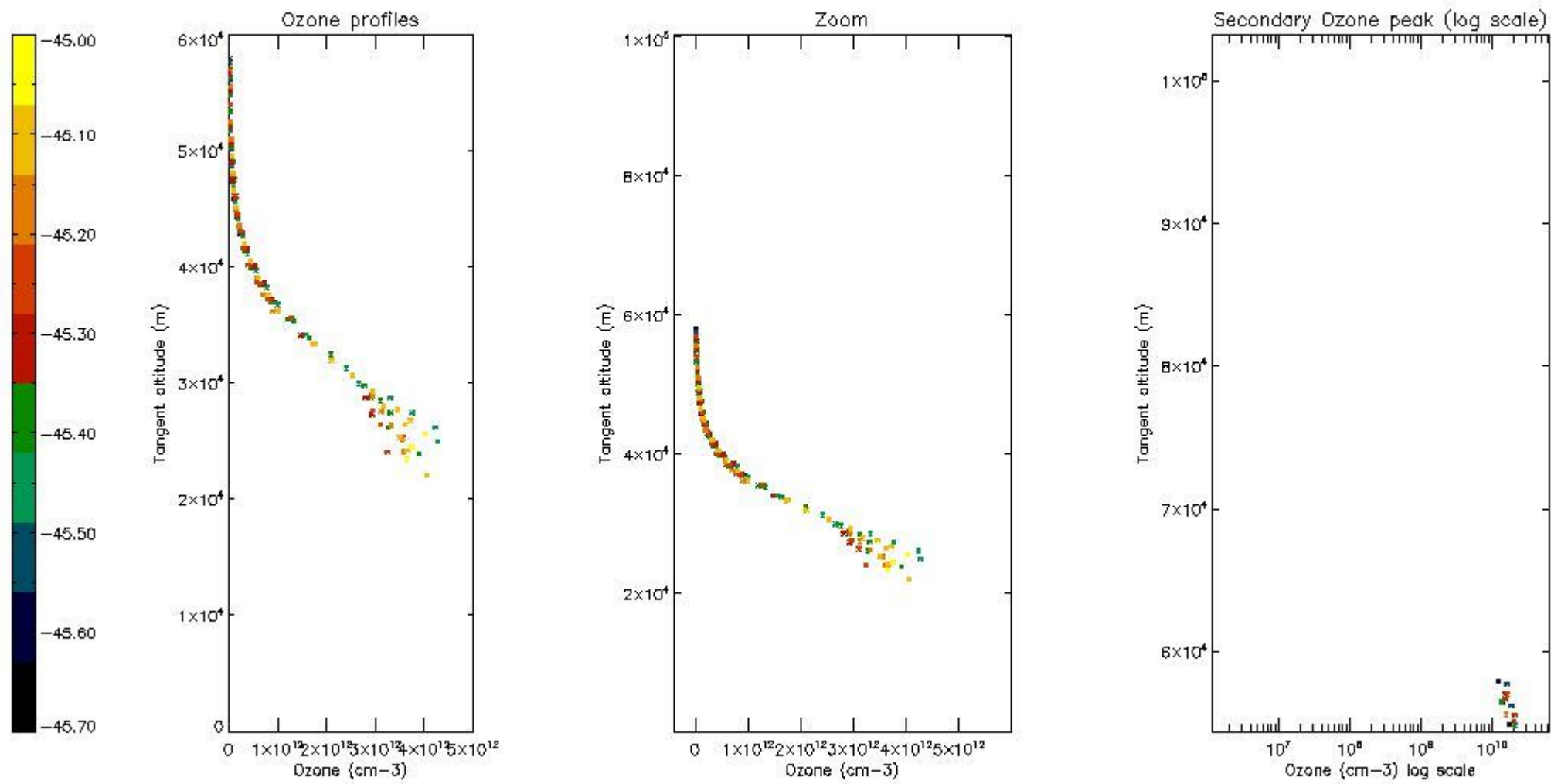
The colorbar represents the latitude.



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

The colorbar represents the latitude.



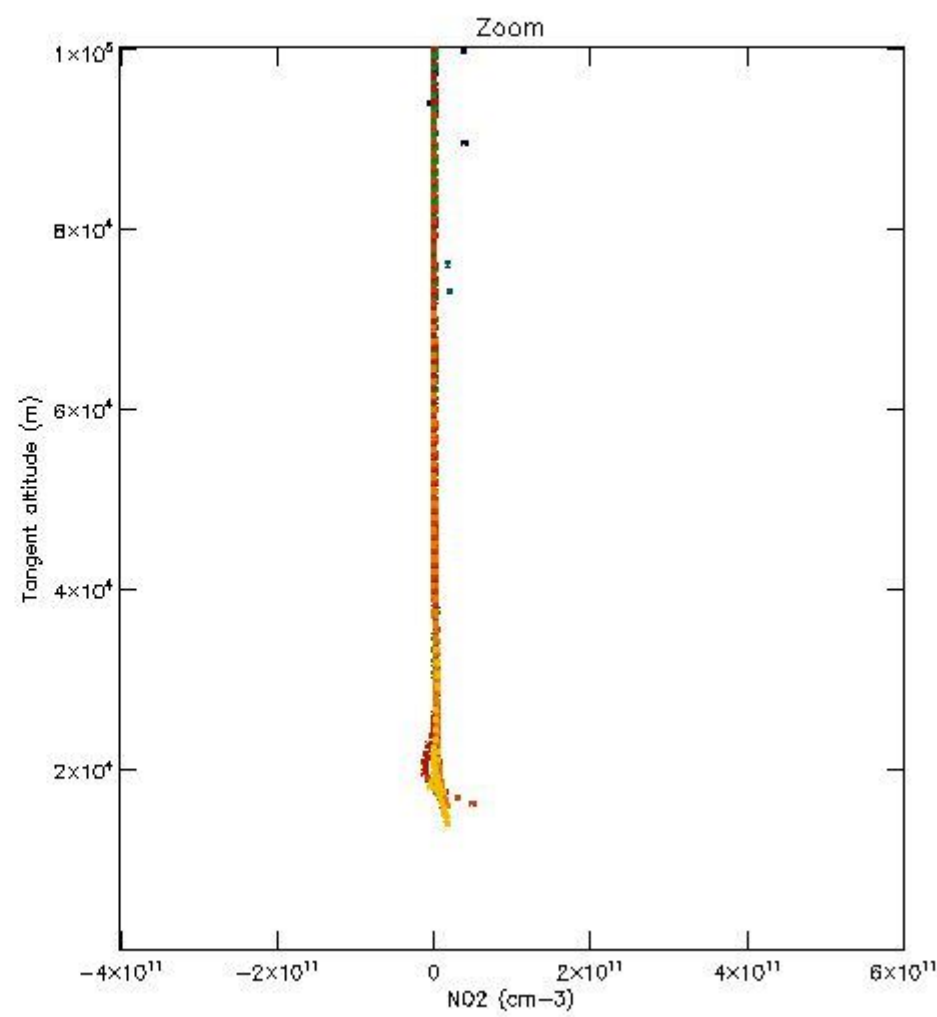
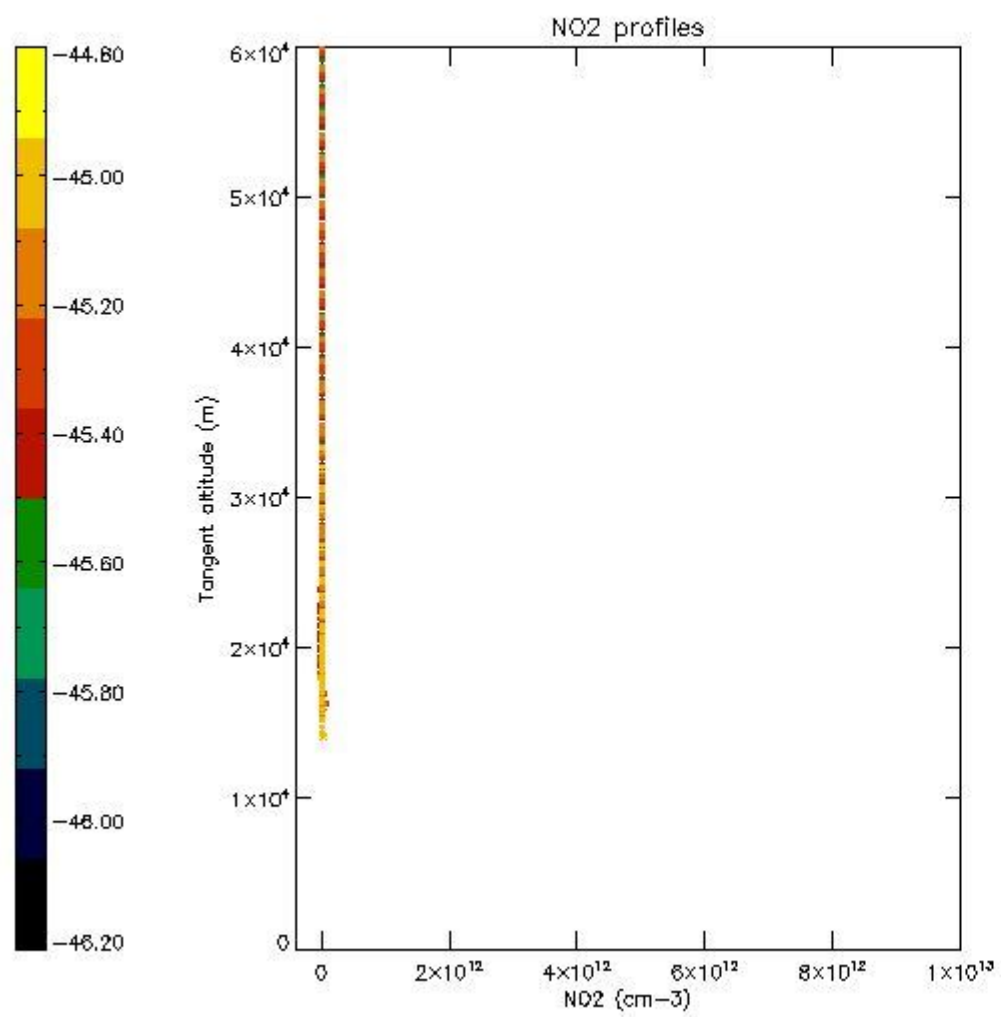


*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.

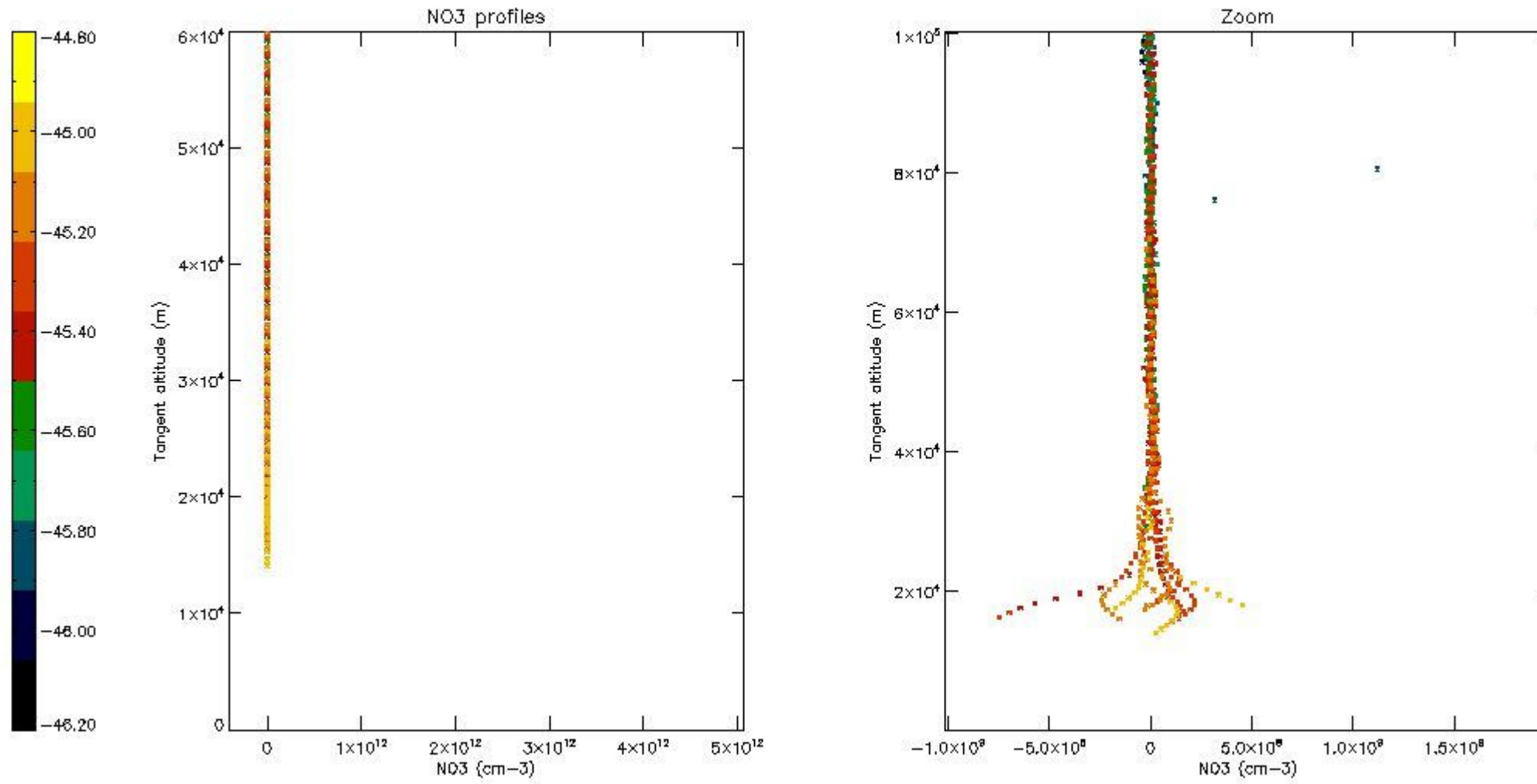
*5.6 Plot NO2 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.



## 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_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	06-MAR-2012 00:15:23
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	06-MAR-2012 00:15:23
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	06-MAR-2012 00:15:23

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

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

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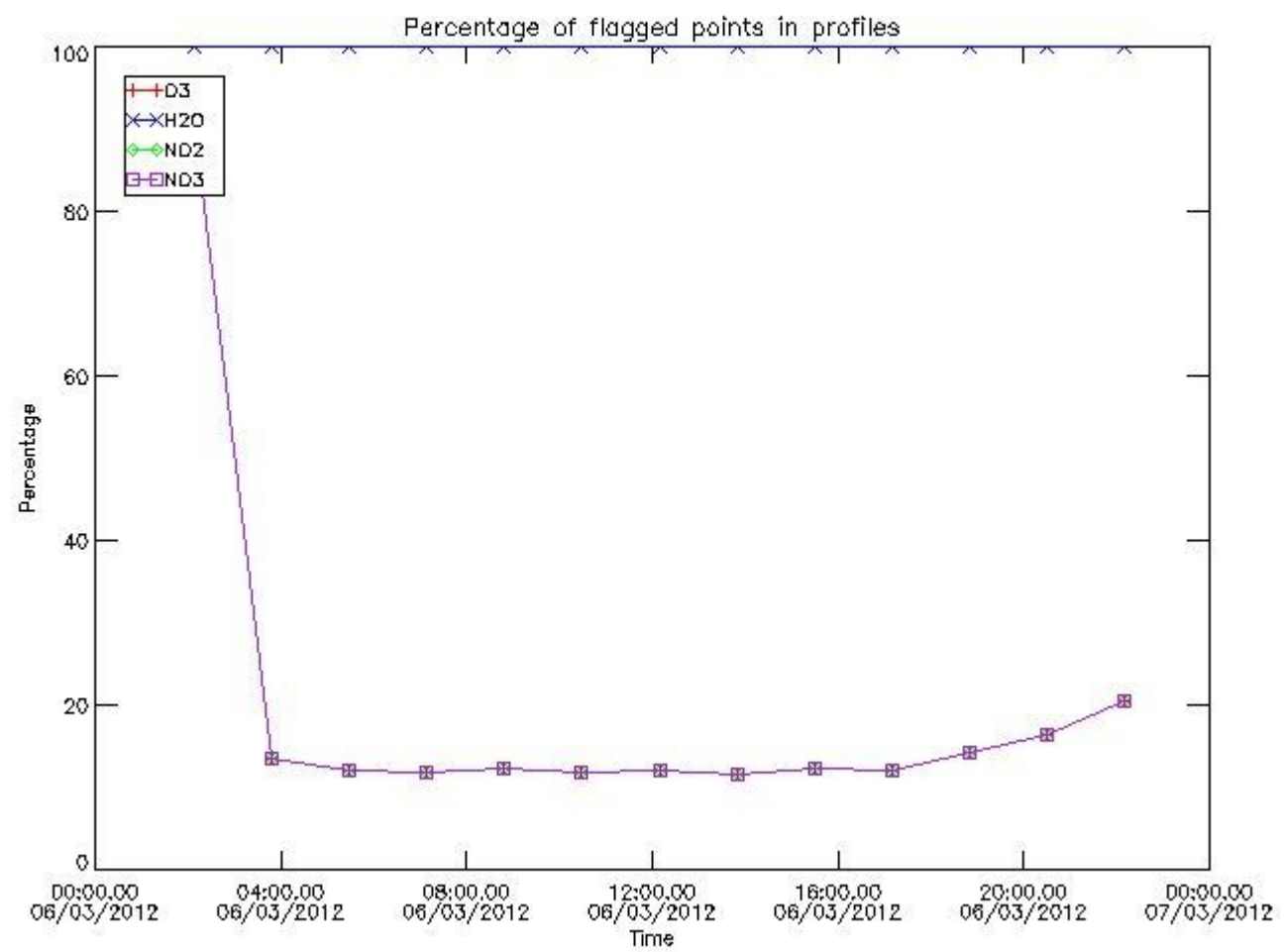
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17	GOM_NL__2PRFIN20120306_101649_000000433112_00223_52392_0930.N1	06-MAR-2012 10:16:49	Bright	43.000	11	53Alp Aql	0.76500	8000.0	86	52392	No
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20	GOM_NL__2PRFIN20120306_120908_000000423112_00224_52393_0952.N1	06-MAR-2012 12:09:08	Dark	42.000	103	38Zet Sgr	2.6000	9700.0	84	52393	No
21	GOM_NL__2PRFIN20120306_133717_000000433112_00225_52394_0983.N1	06-MAR-2012 13:37:17	Bright	43.000	11	53Alp Aql	0.76500	8000.0	86	52394	No
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24	GOM_NL__2PRFIN20120306_152937_000000423112_00226_52395_1042.N1	06-MAR-2012 15:29:37	Dark	41.500	103	38Zet Sgr	2.6000	9700.0	83	52395	No
25	GOM_NL__2PRFIN20120306_170952_000000423112_00227_52396_1115.N1	06-MAR-2012 17:09:52	Dark	42.000	103	38Zet Sgr	2.6000	9700.0	84	52396	No
26	GOM_NL__2PRFIN20120306_185006_000000363112_00228_52397_1121.N1	06-MAR-2012 18:50:06	Dark	36.000	103	38Zet Sgr	2.6000	9700.0	72	52397	No
27	GOM_NL__2PRFIN20120306_203021_000000313112_00229_52398_1147.N1	06-MAR-2012 20:30:21	Dark	31.000	103	38Zet Sgr	2.6000	9700.0	62	52398	No
28	GOM_NL__2PRFIN20120306_221035_000000253112_00230_52399_1211.N1	06-MAR-2012 22:10:35	Dark	25.000	103	38Zet Sgr	2.6000	9700.0	50	52399	No

## 3. Quality information per product

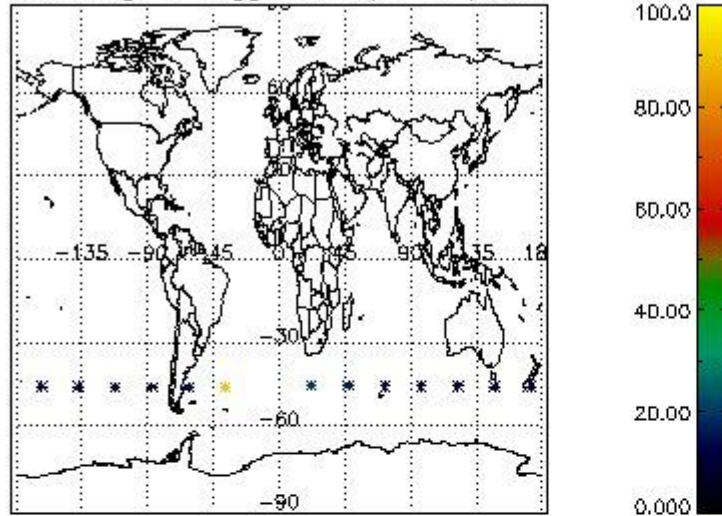
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

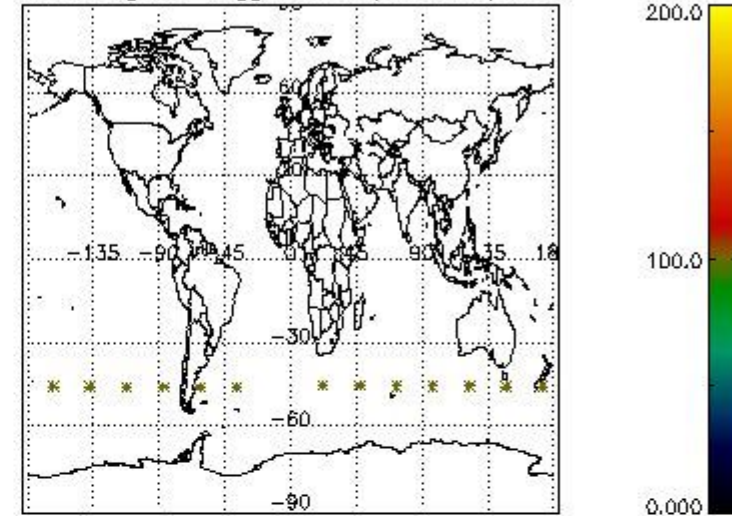


*3.2 Plot quality information per product (world map)*

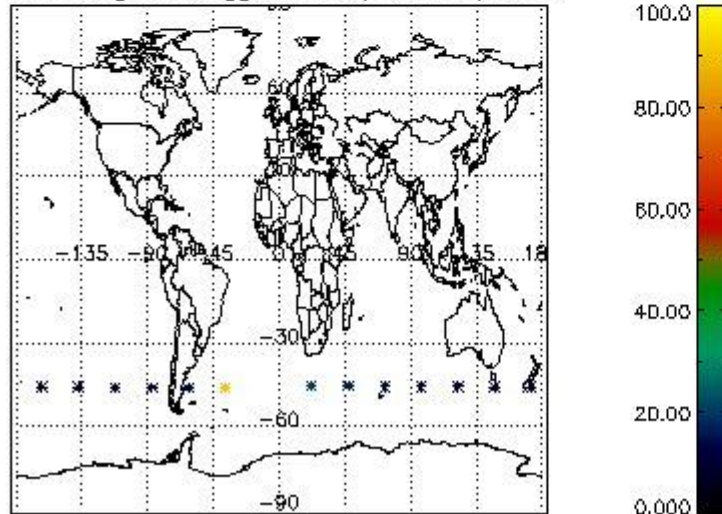
Percentage of flagged data per O3 profile



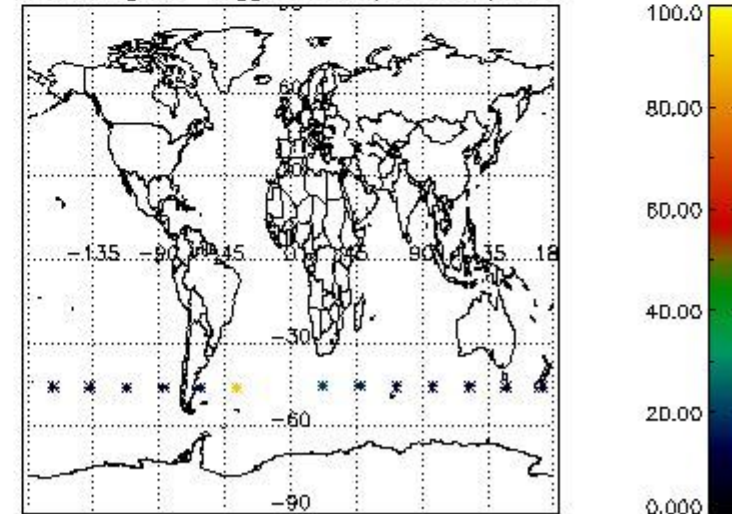
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

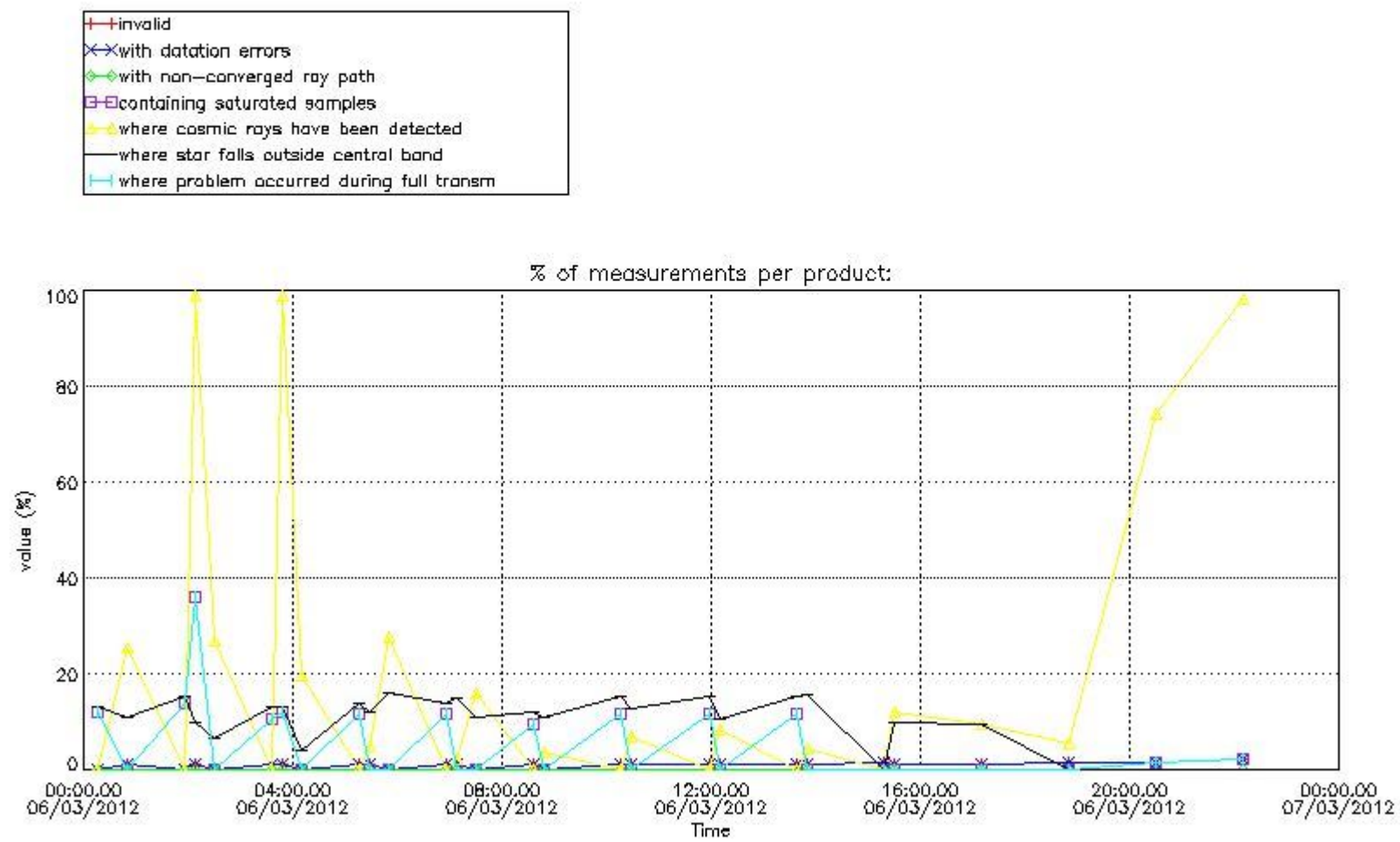


#### 4. Level 1 quality information per product

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



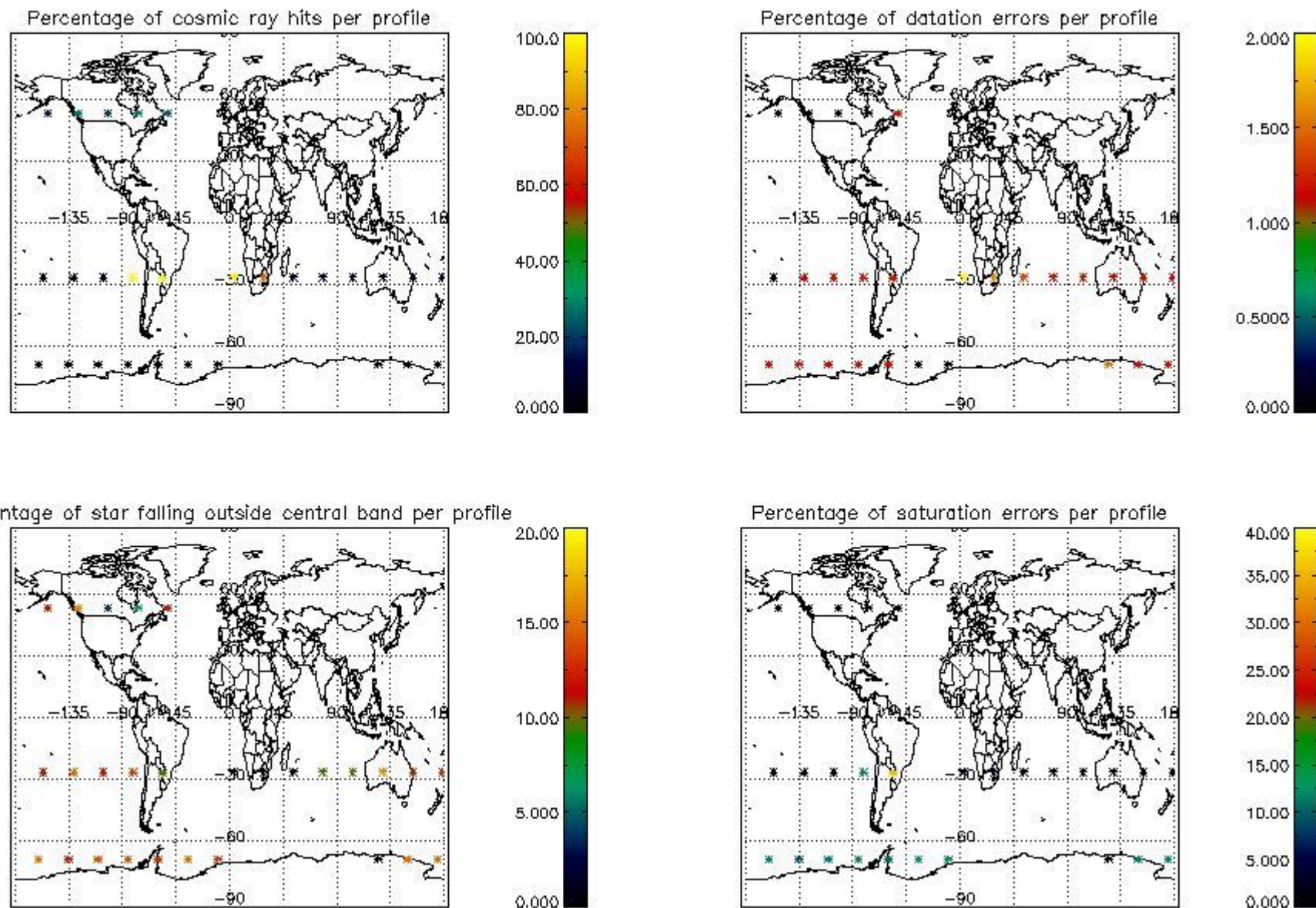
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

!Warning: No products without errors in descending found

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

**!Warning: No products without errors in descending found**

### 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:

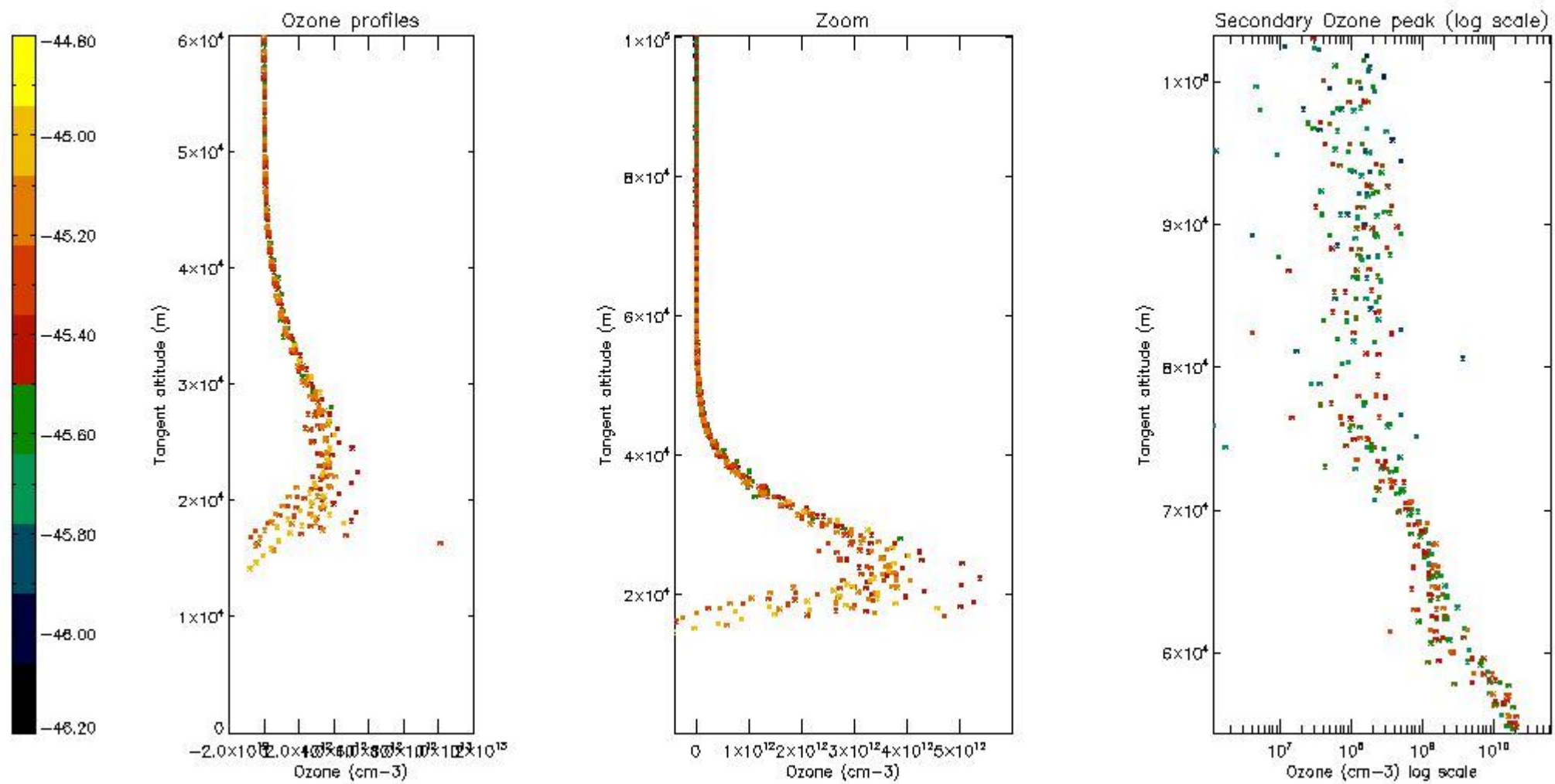
- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

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	43.000
STD < 20	16.000
STD < 10	9.0000
STD < 5	NaN

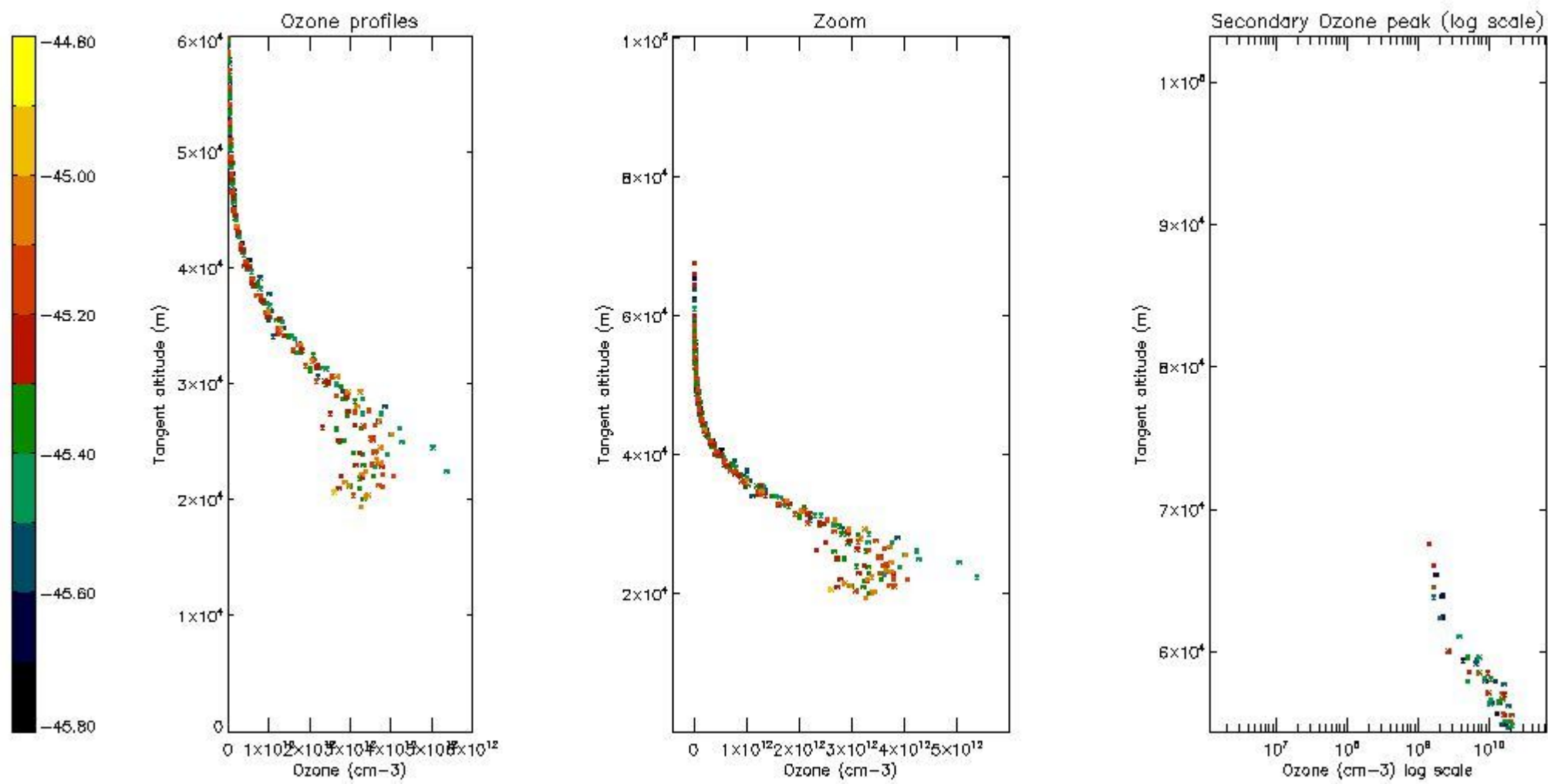
### 5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



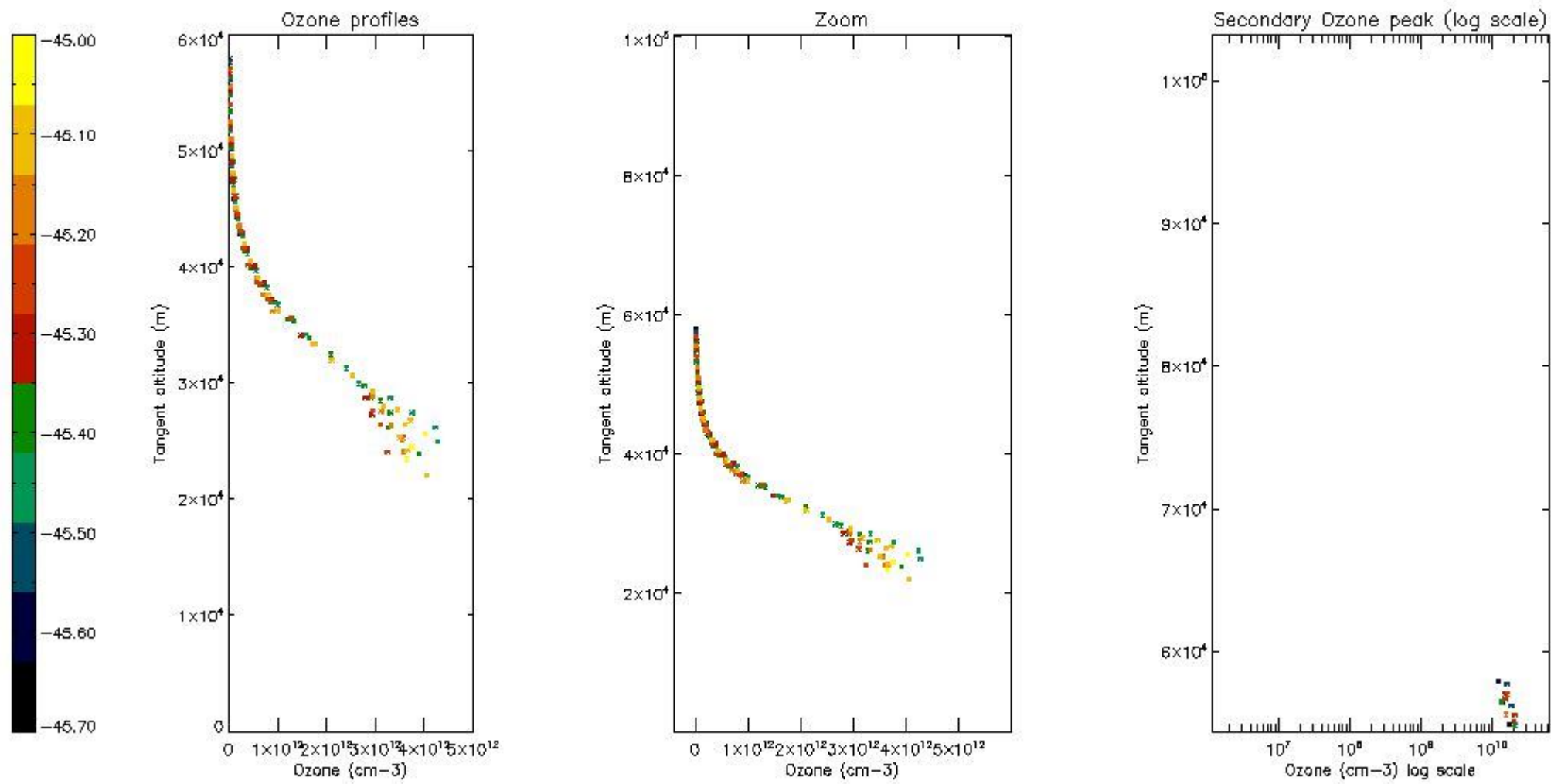
### 5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.

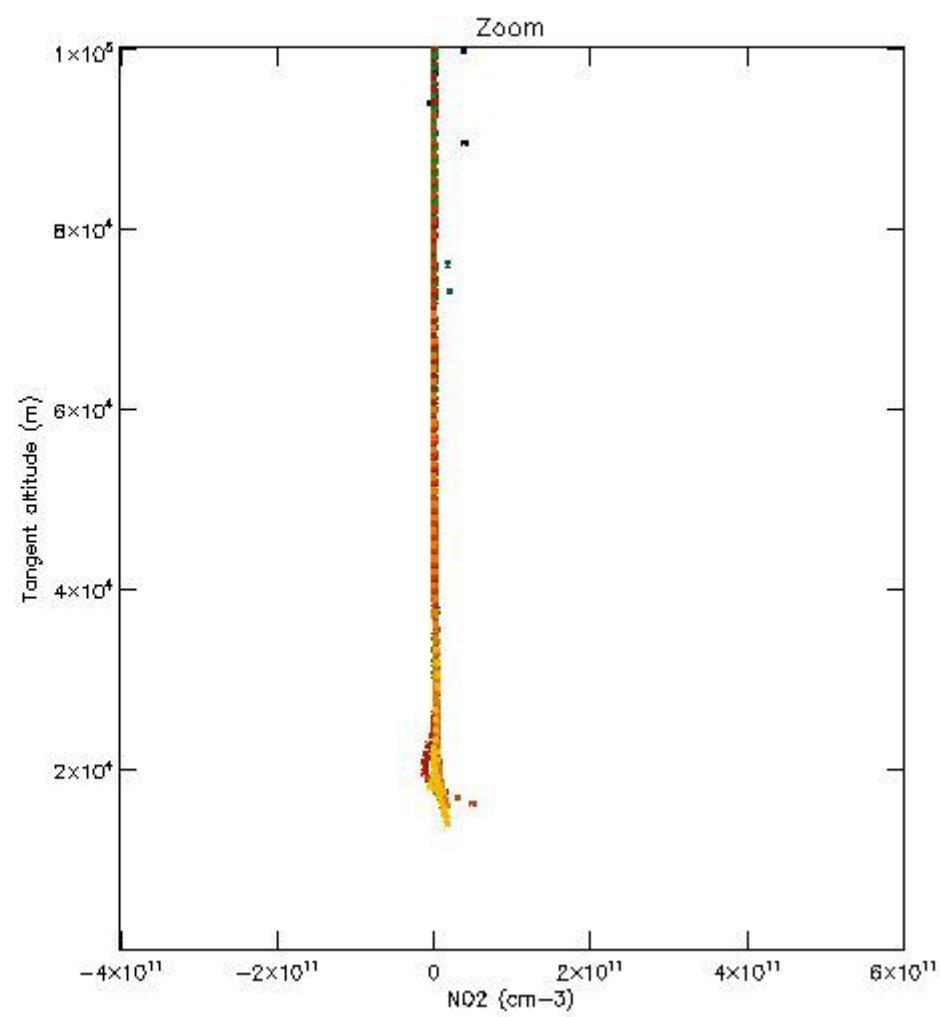
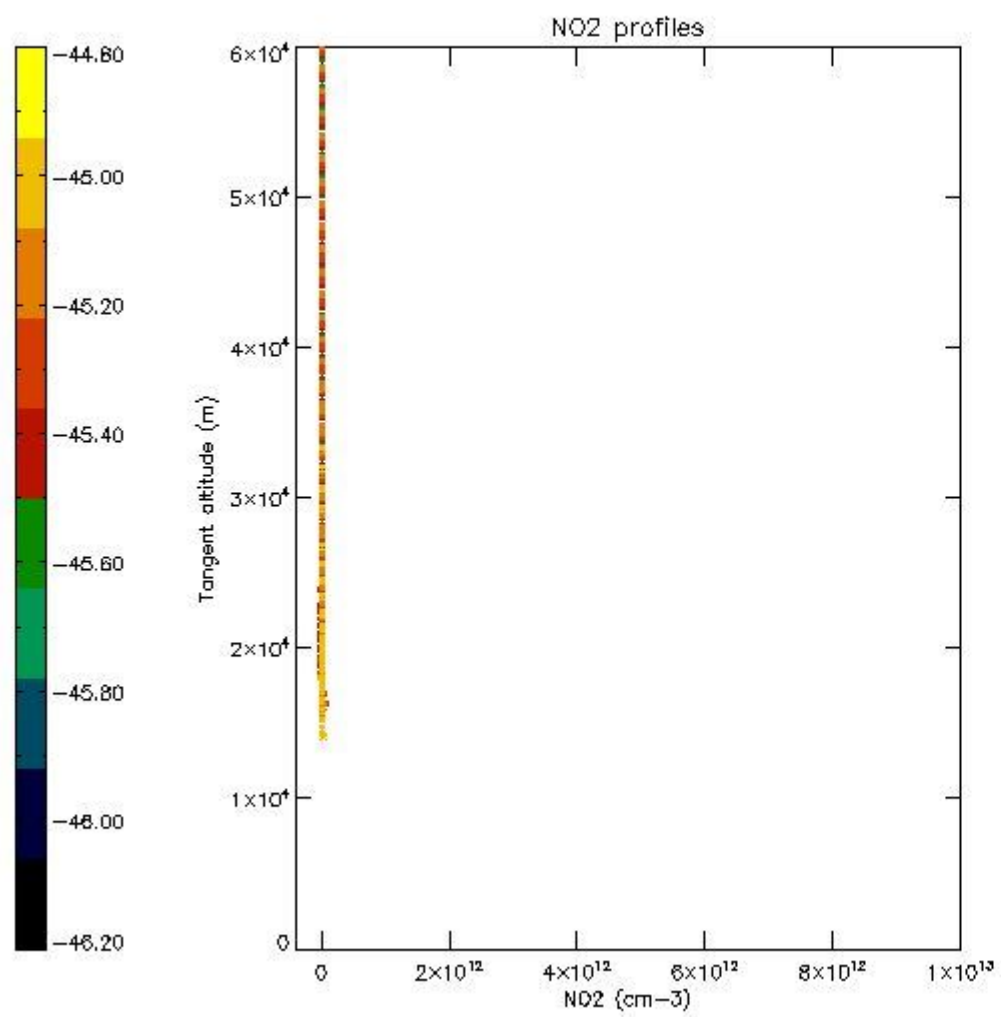


*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.

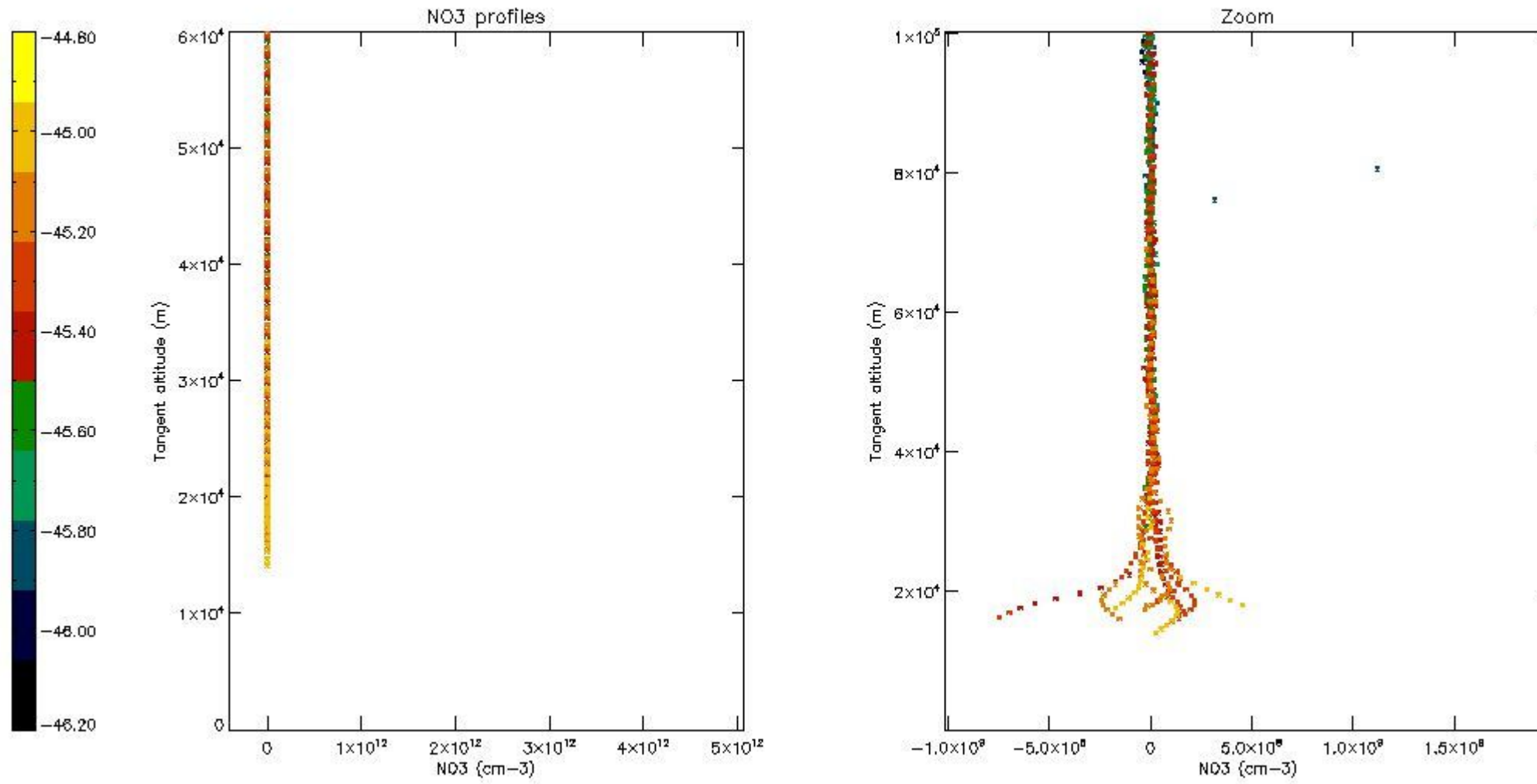
*5.6 Plot NO2 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

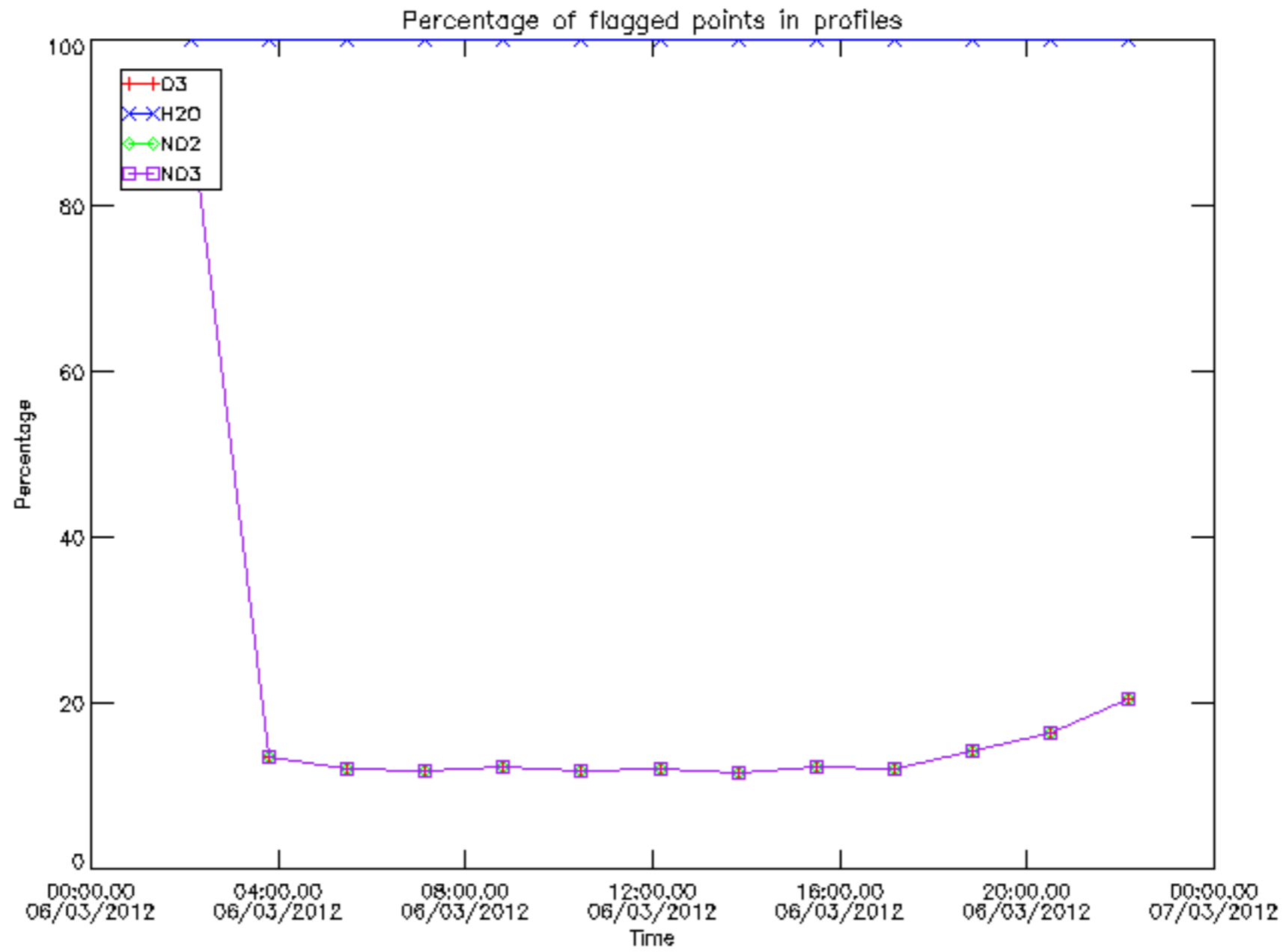
The colorbar represents the latitude.



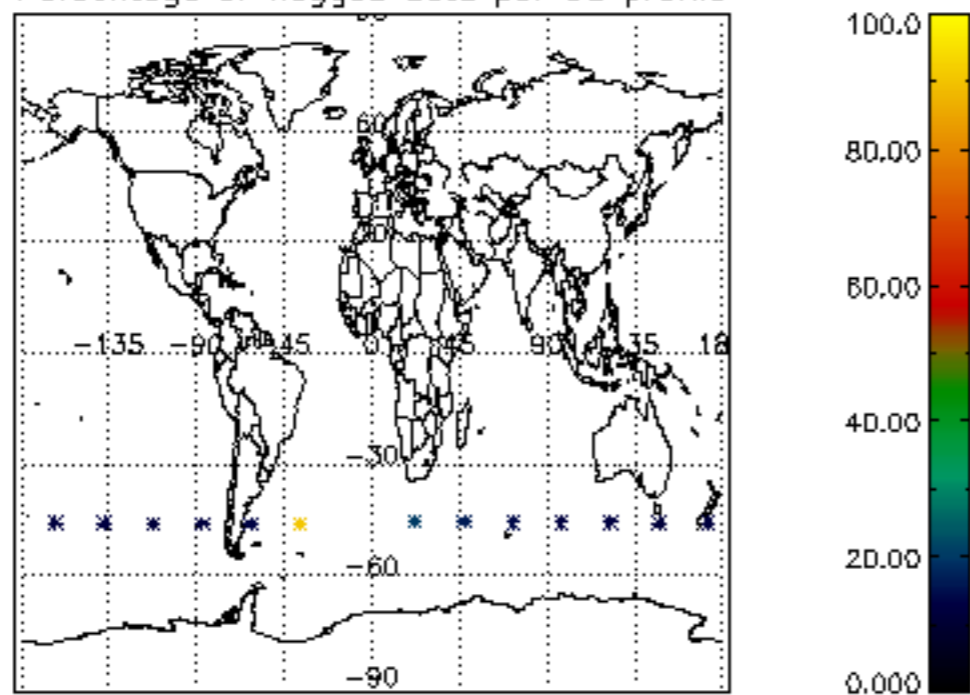
## 6. Auxiliary Data Files used for the production reported in section 2

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.

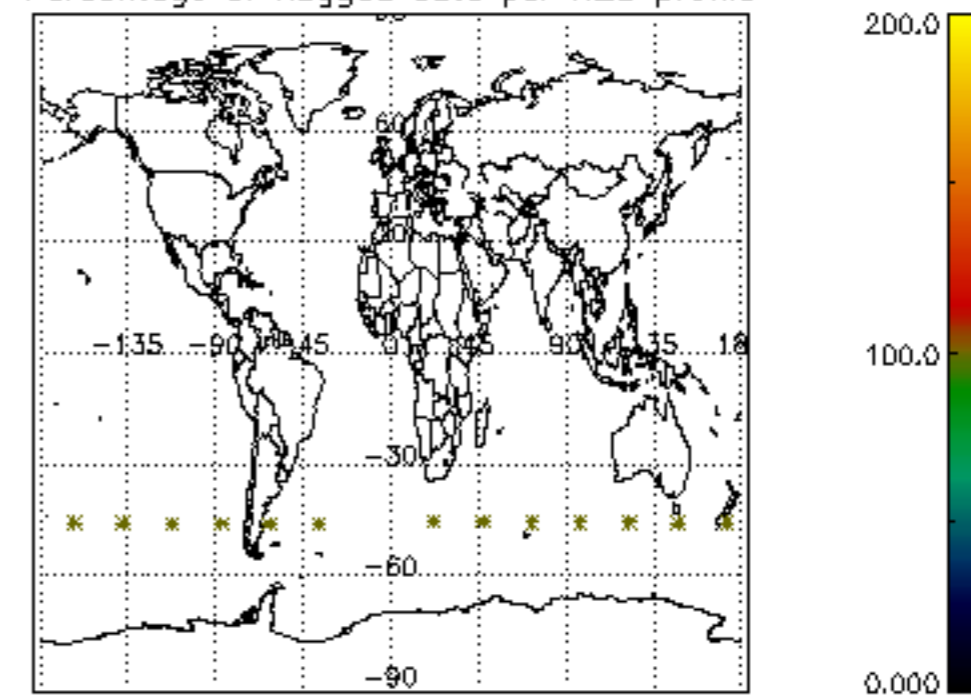
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	06-MAR-2012 00:15:23
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	06-MAR-2012 00:15:23
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	06-MAR-2012 00:15:23



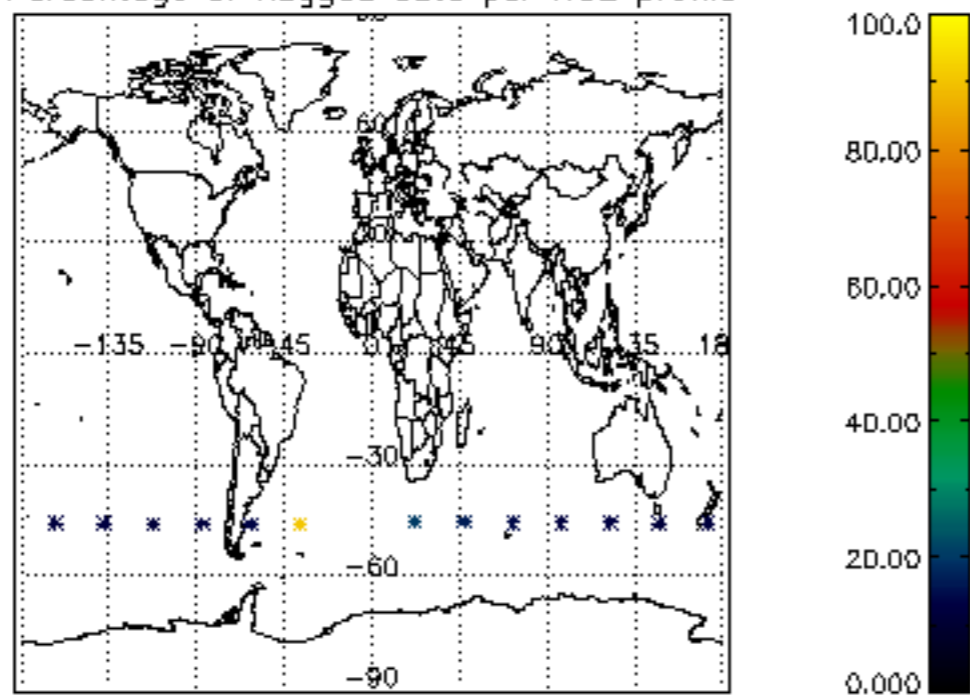
Percentage of flagged data per D3 profile



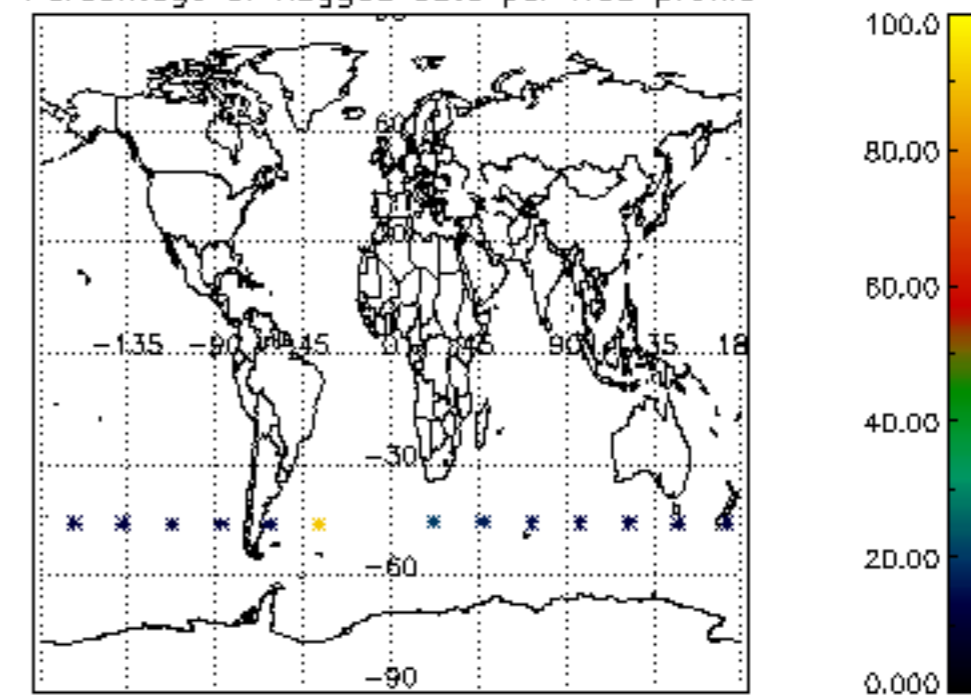
Percentage of flagged data per H2O profile



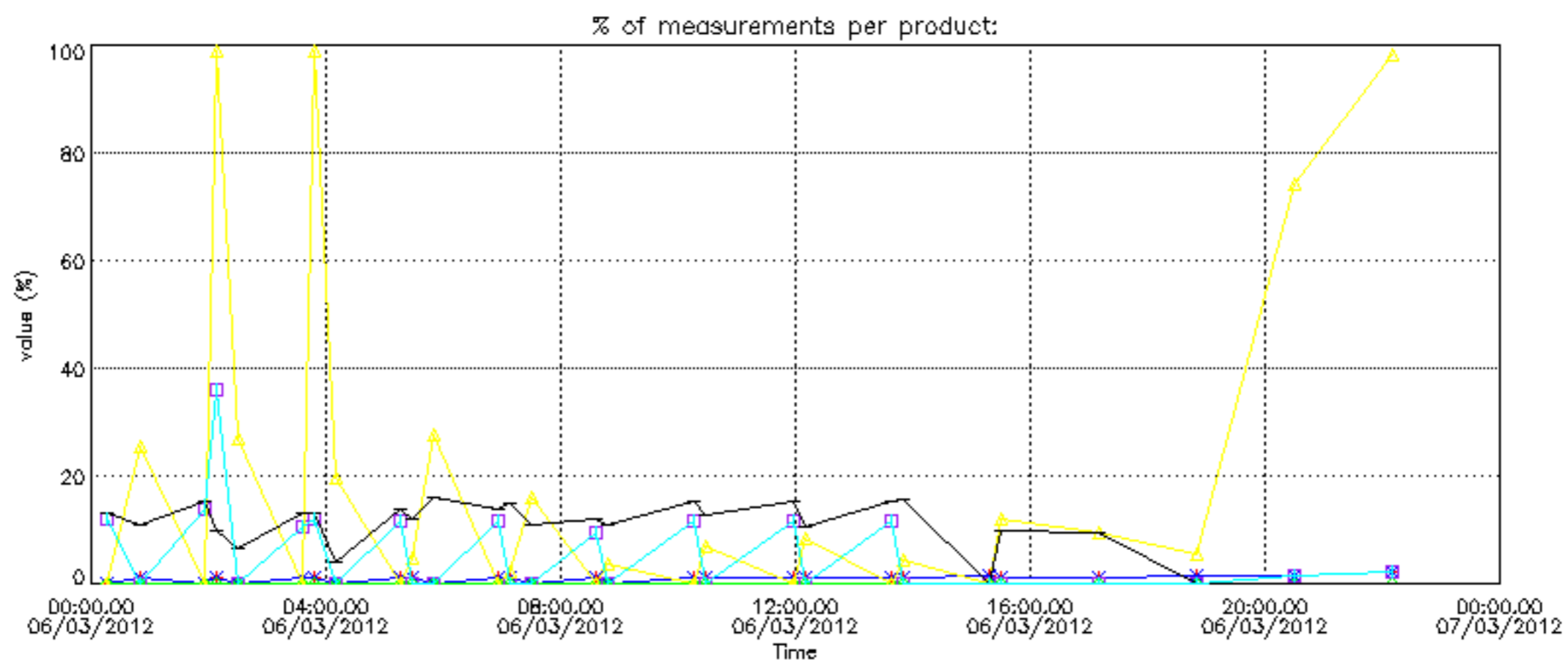
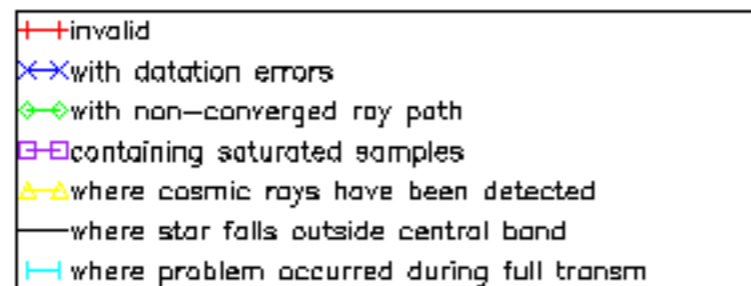
Percentage of flagged data per NO2 profile



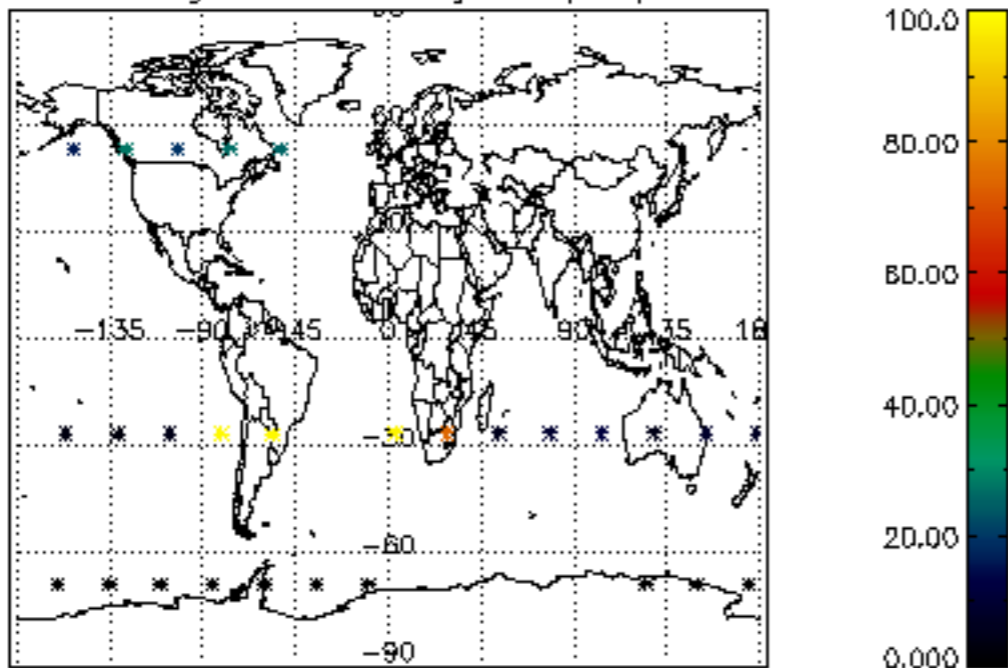
Percentage of flagged data per NO3 profile



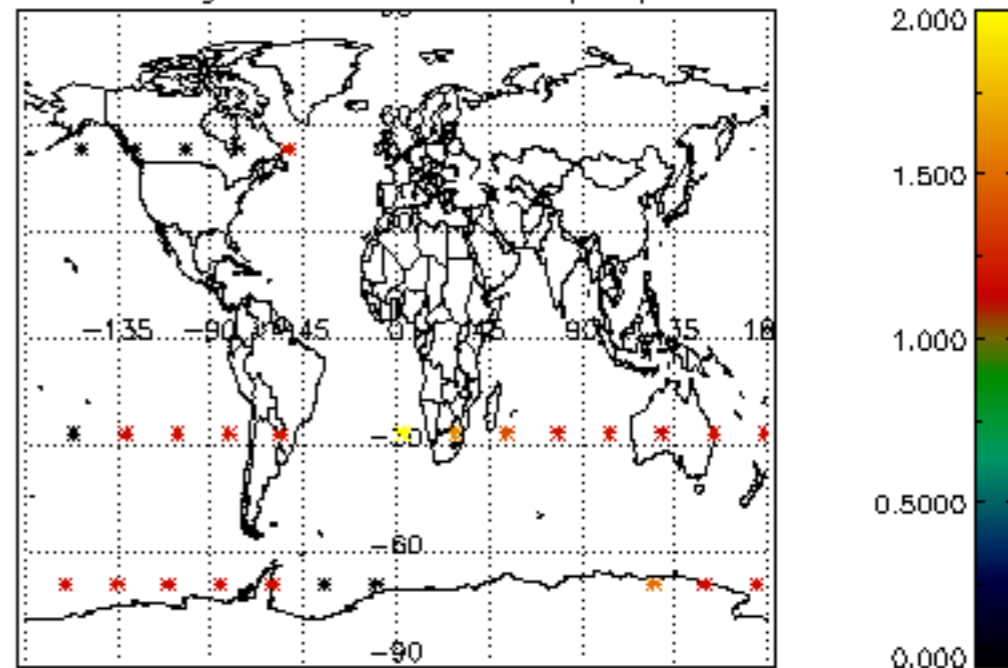




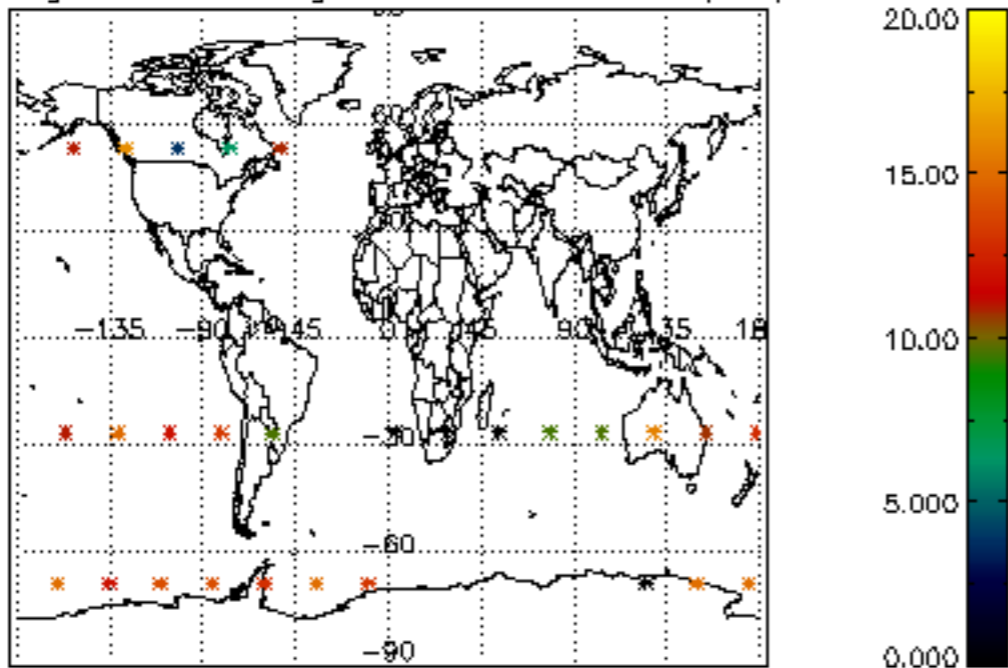
Percentage of cosmic ray hits per profile



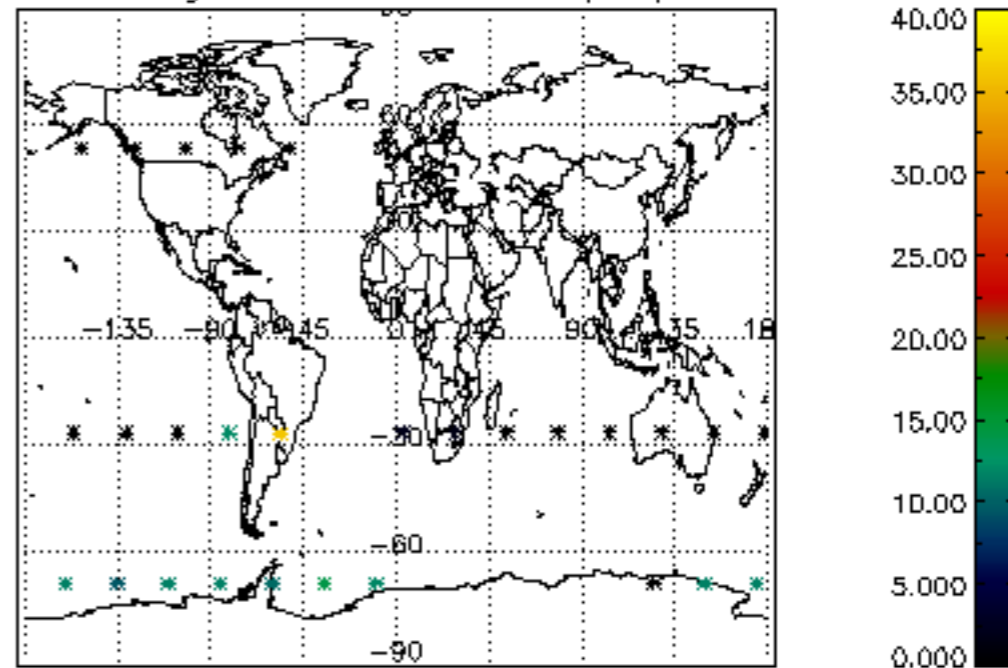
Percentage of datation errors per profile

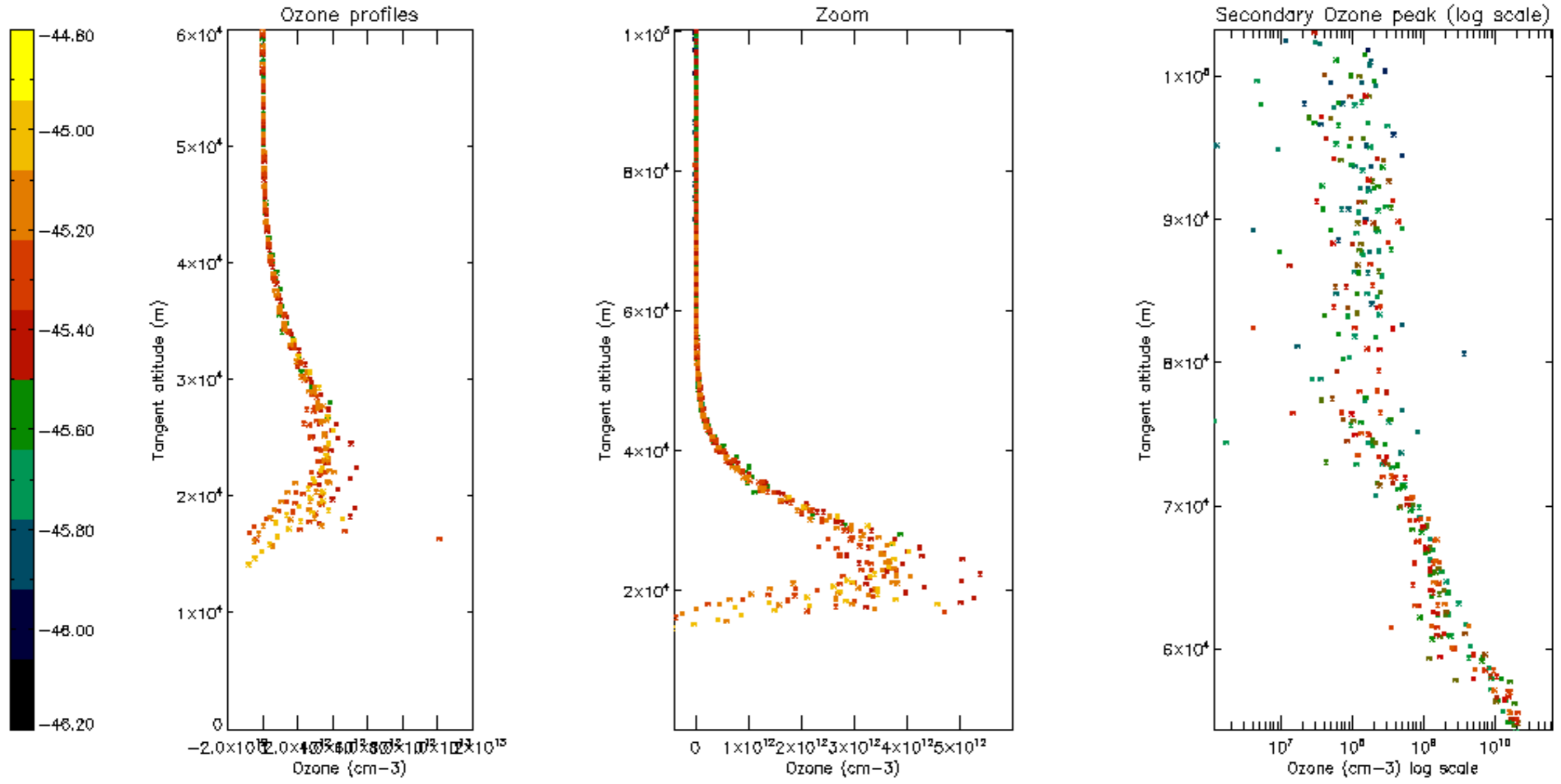


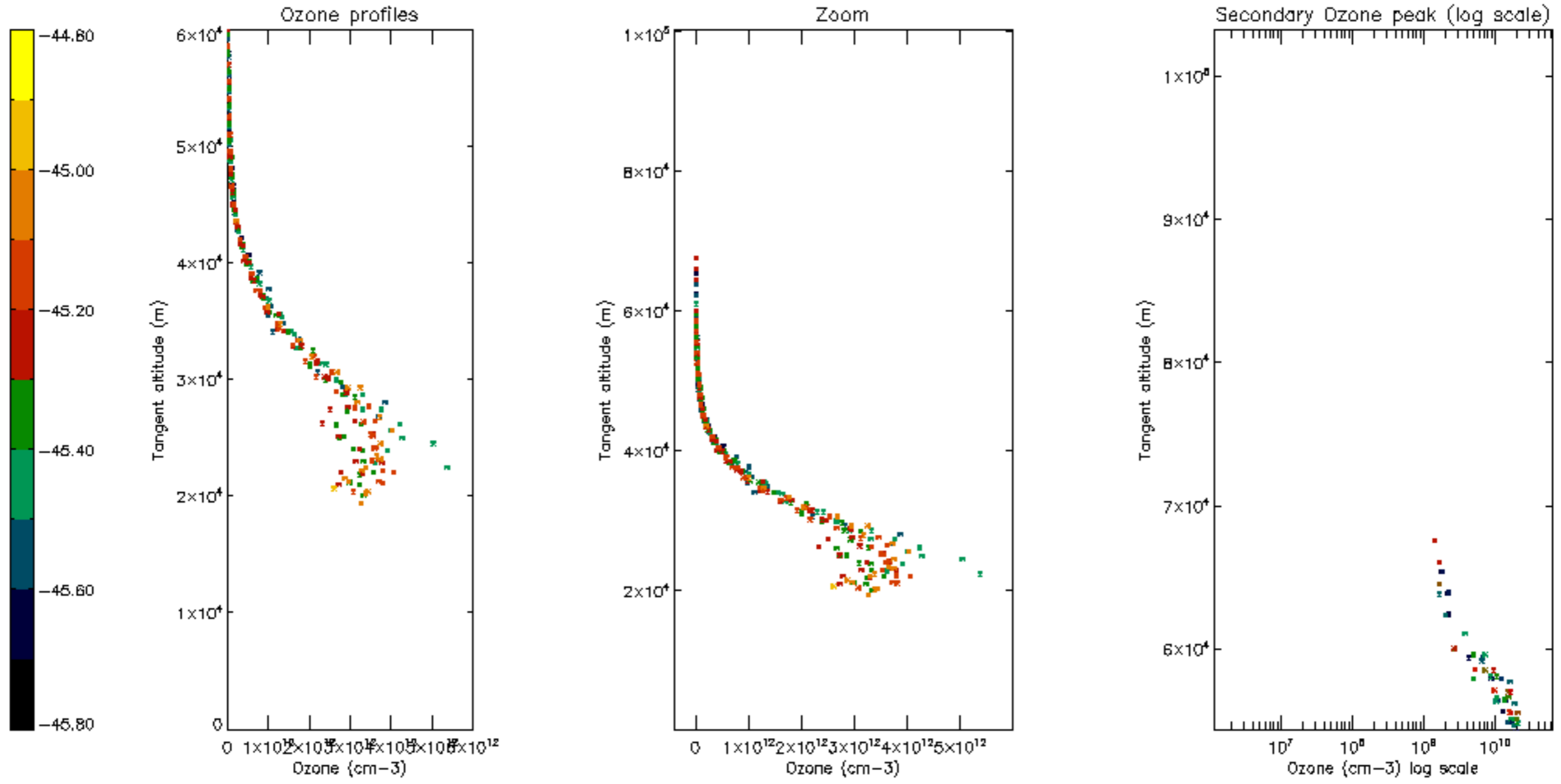
Percentage of star falling outside central band per profile

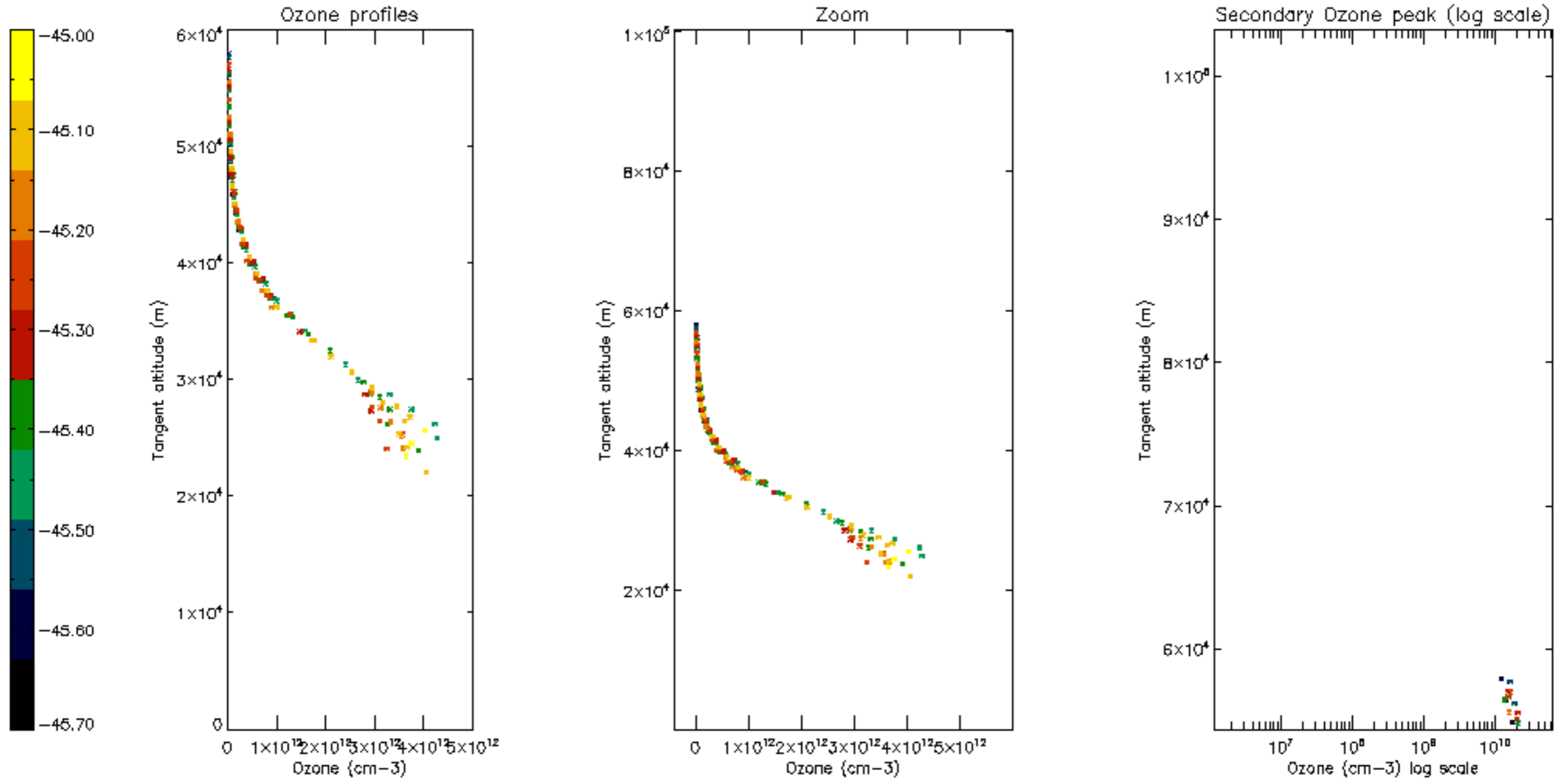


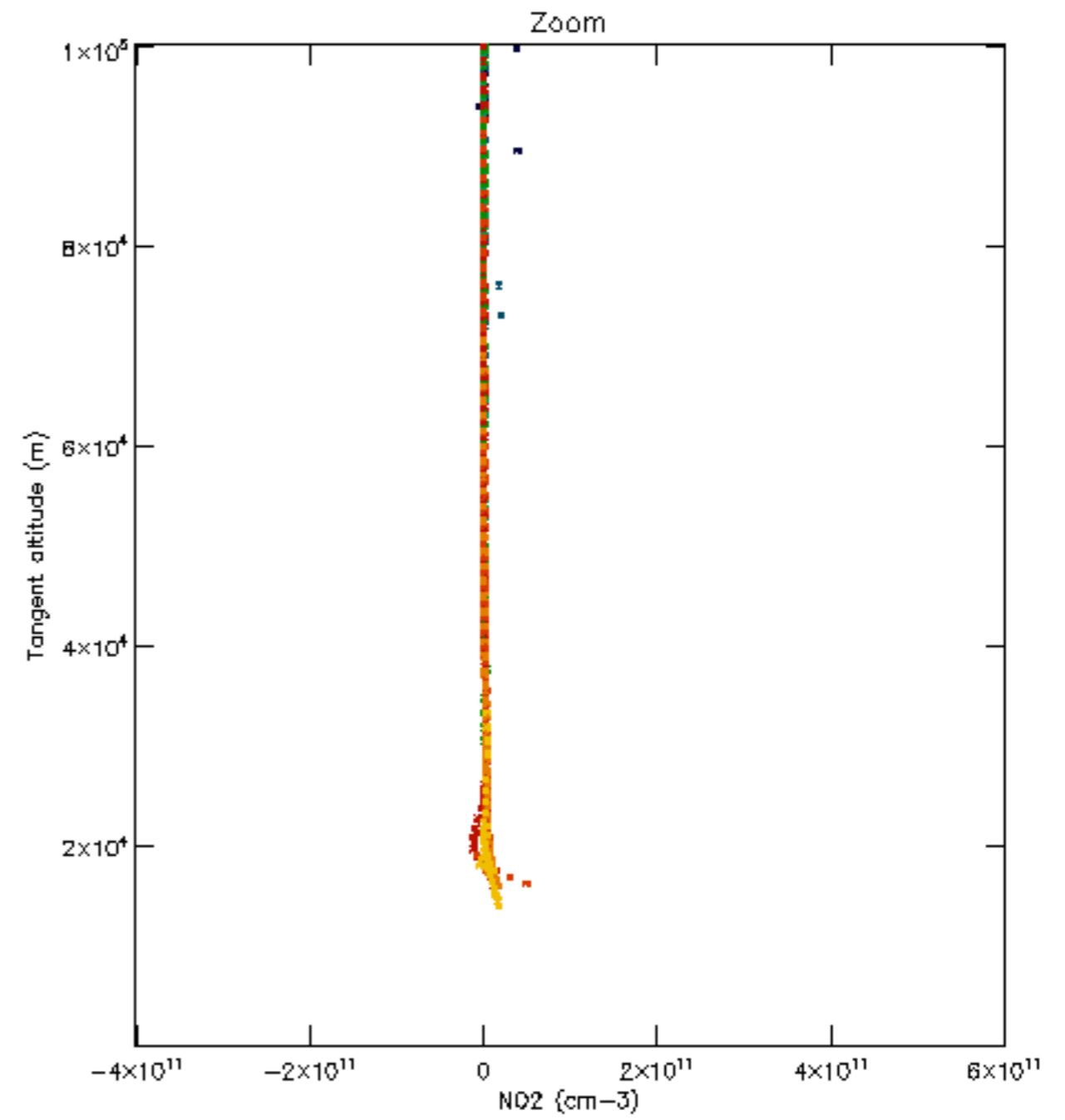
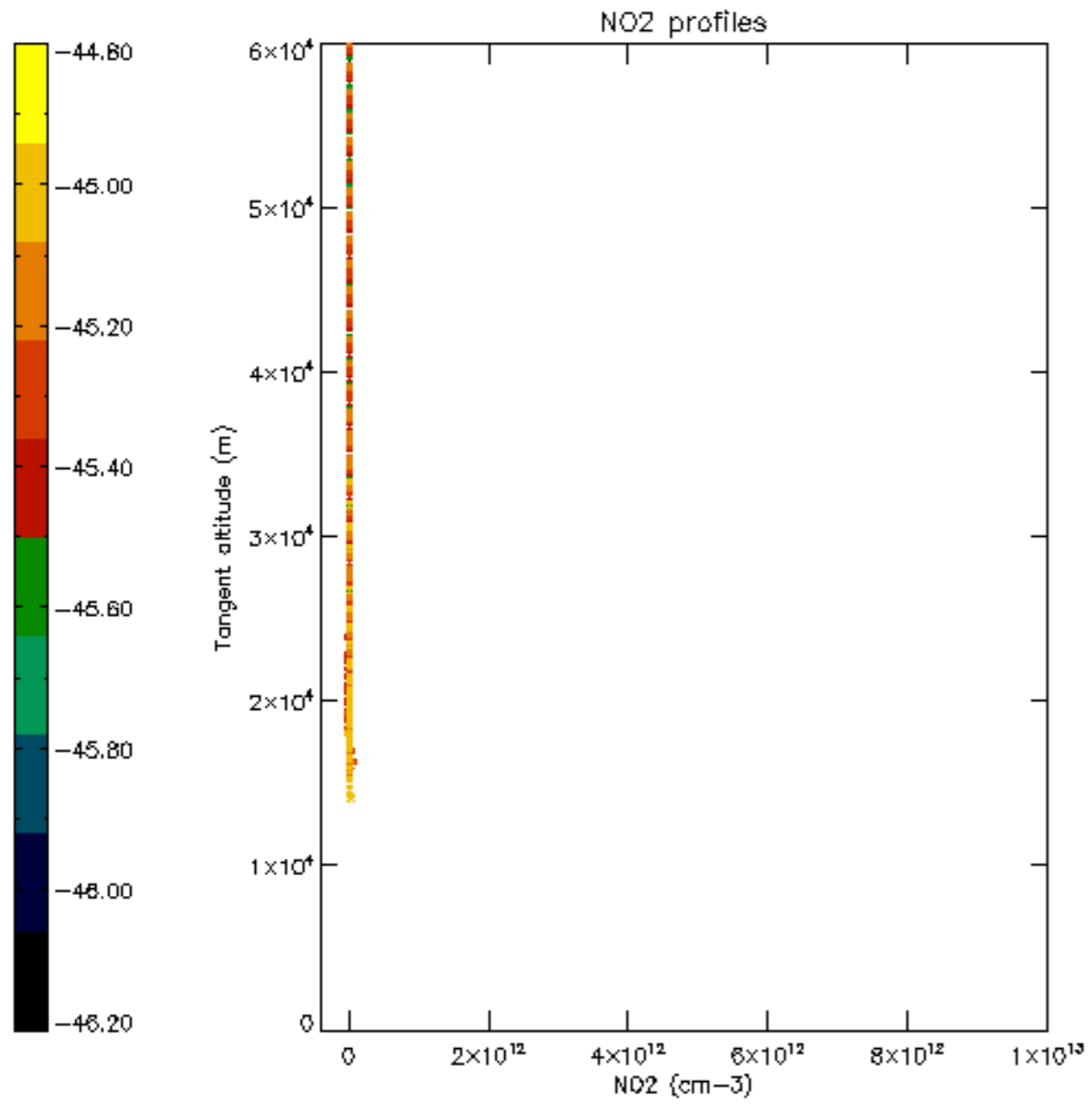
Percentage of saturation errors per profile

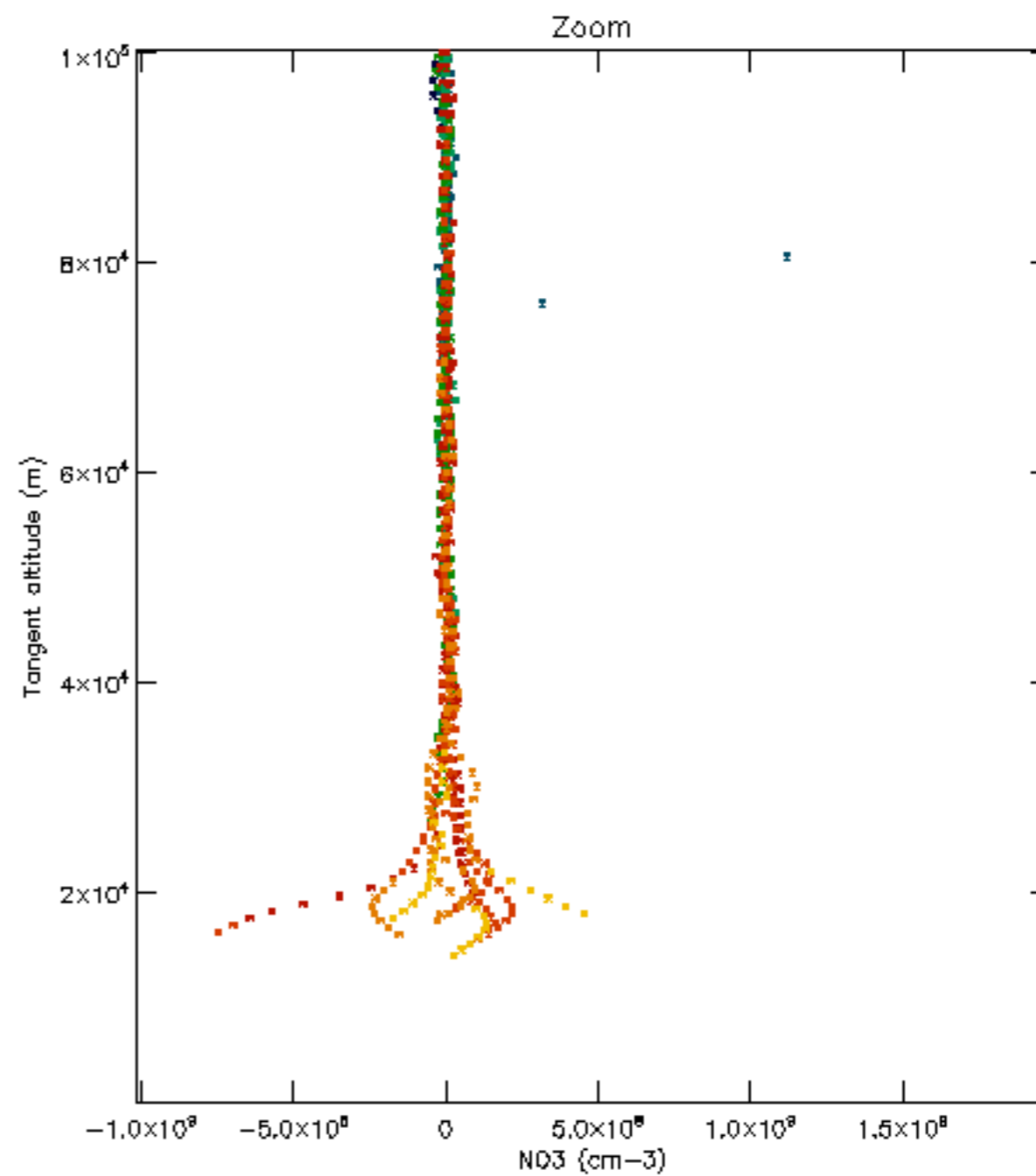
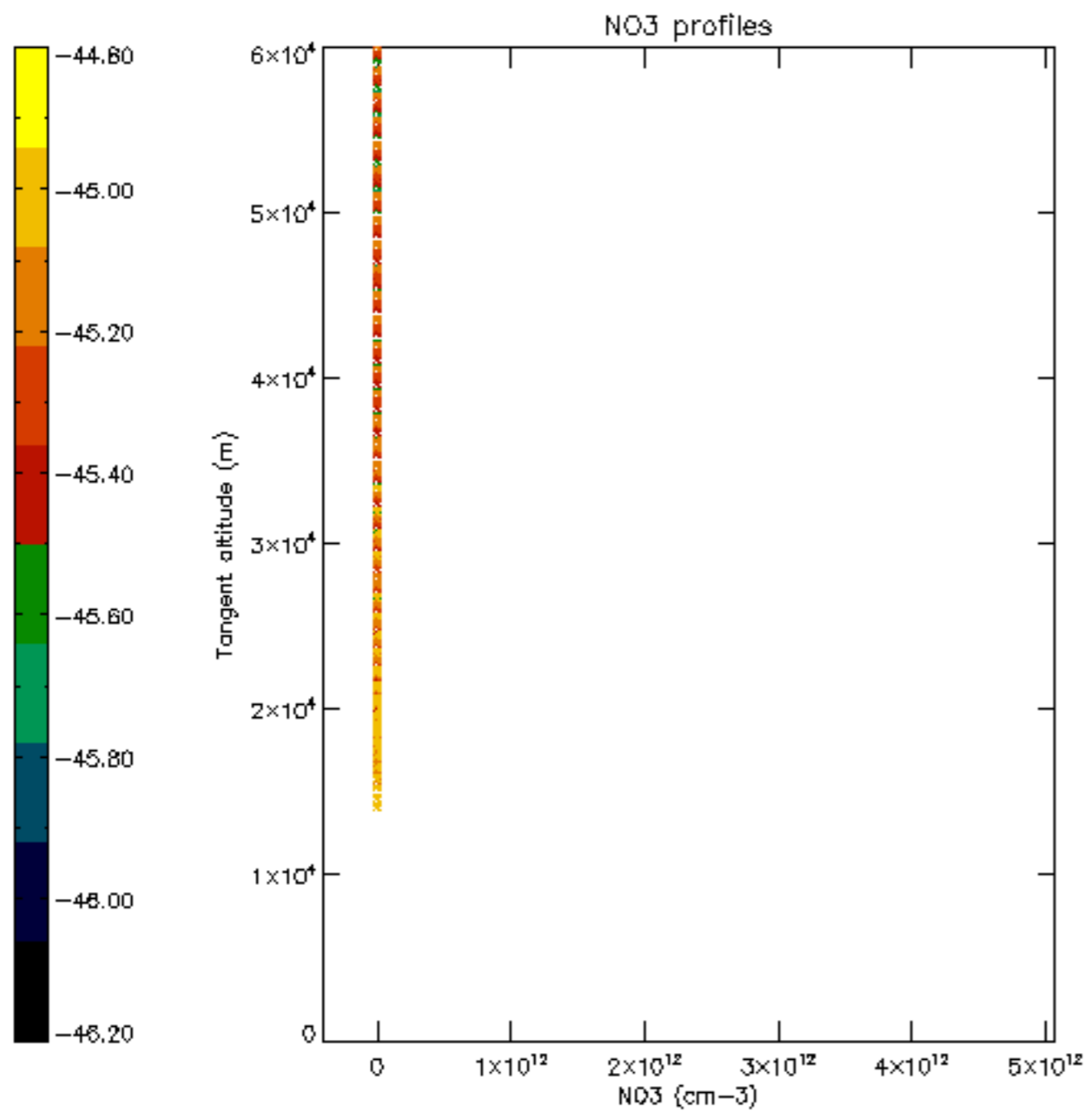


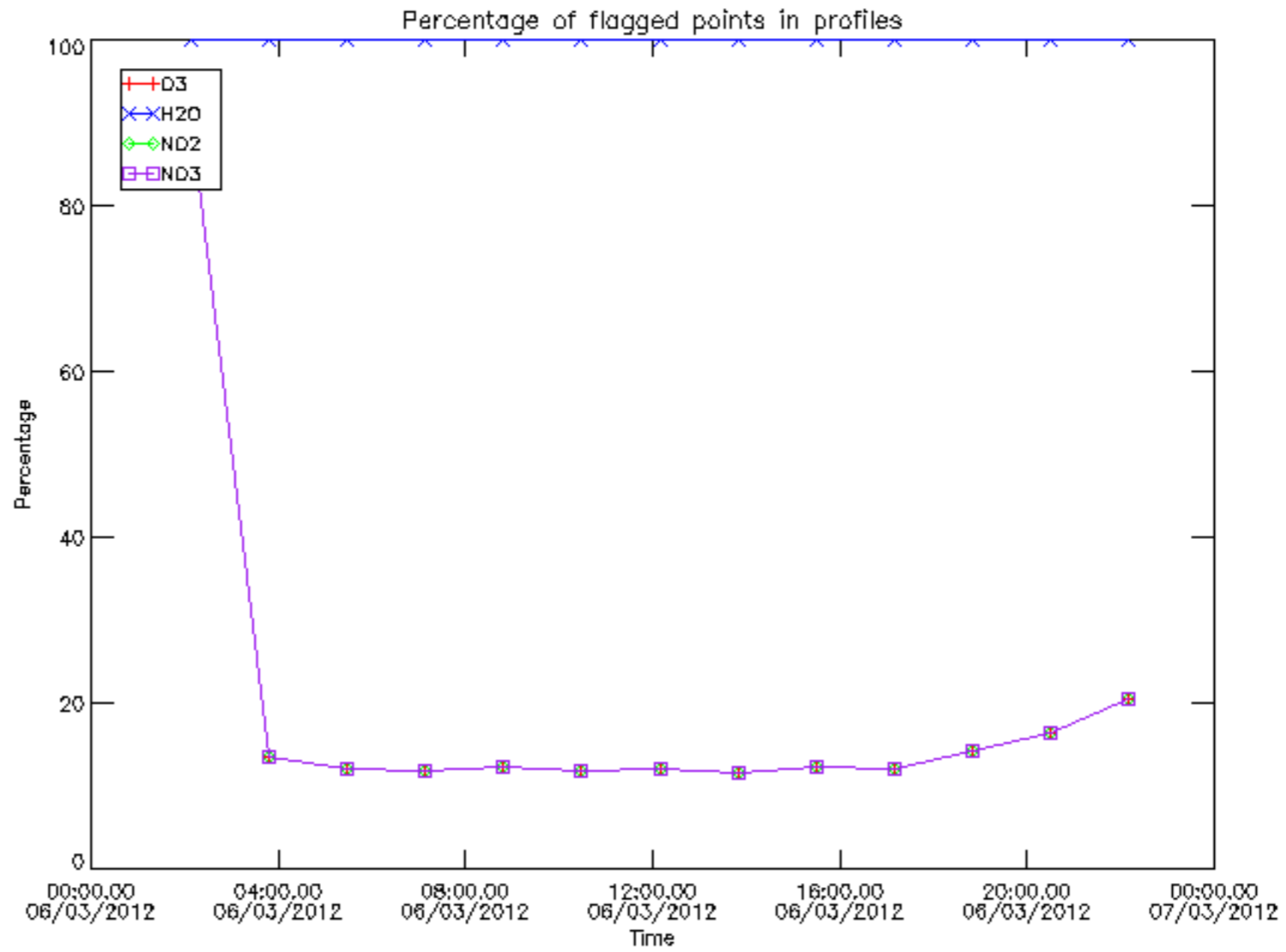






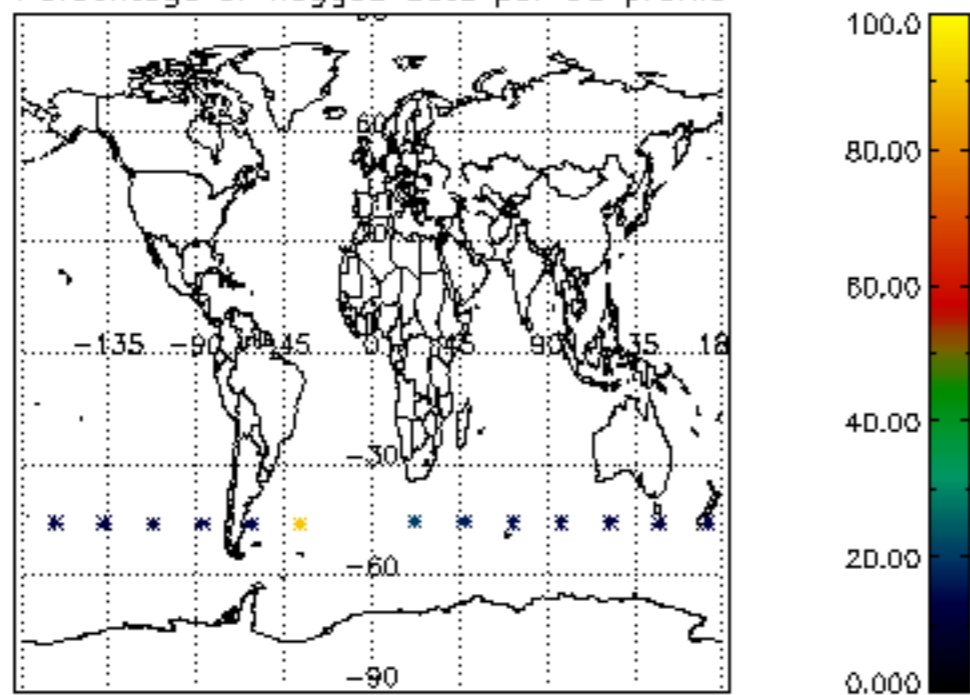




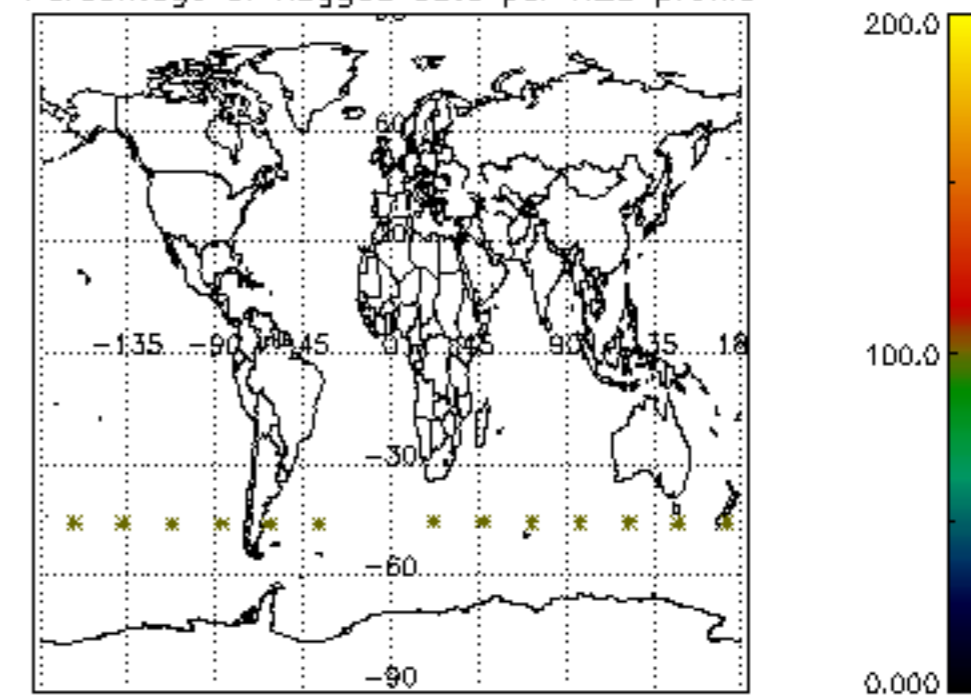




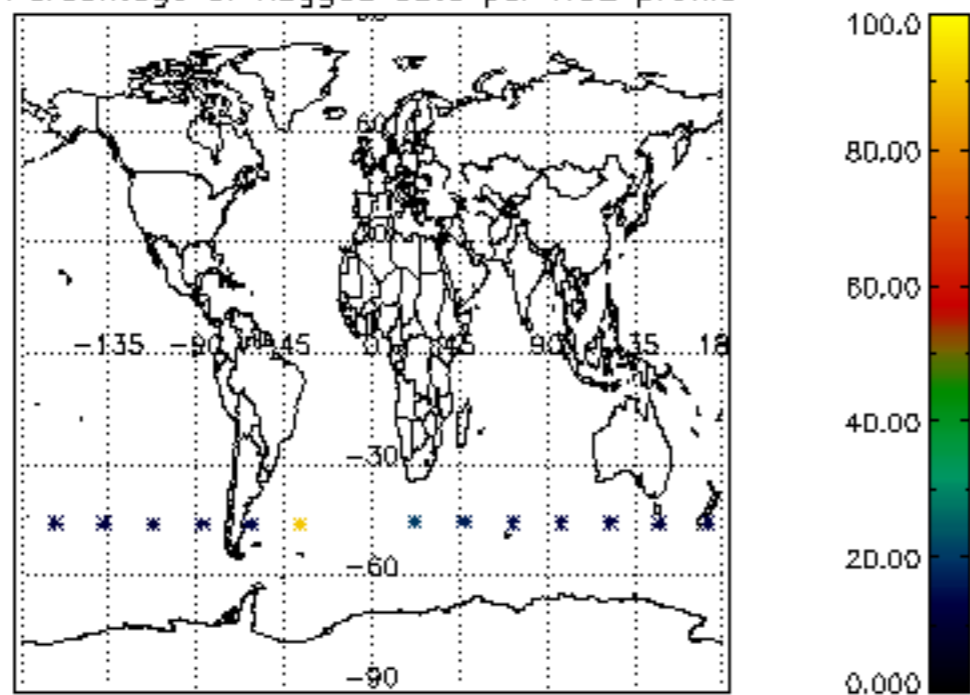
Percentage of flagged data per D3 profile



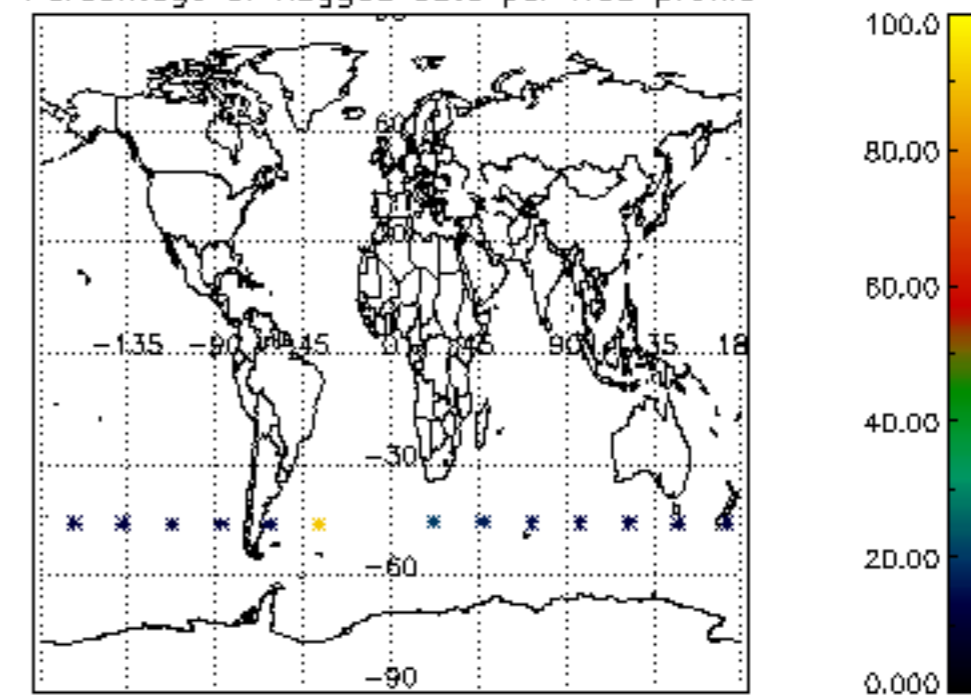
Percentage of flagged data per H2O profile

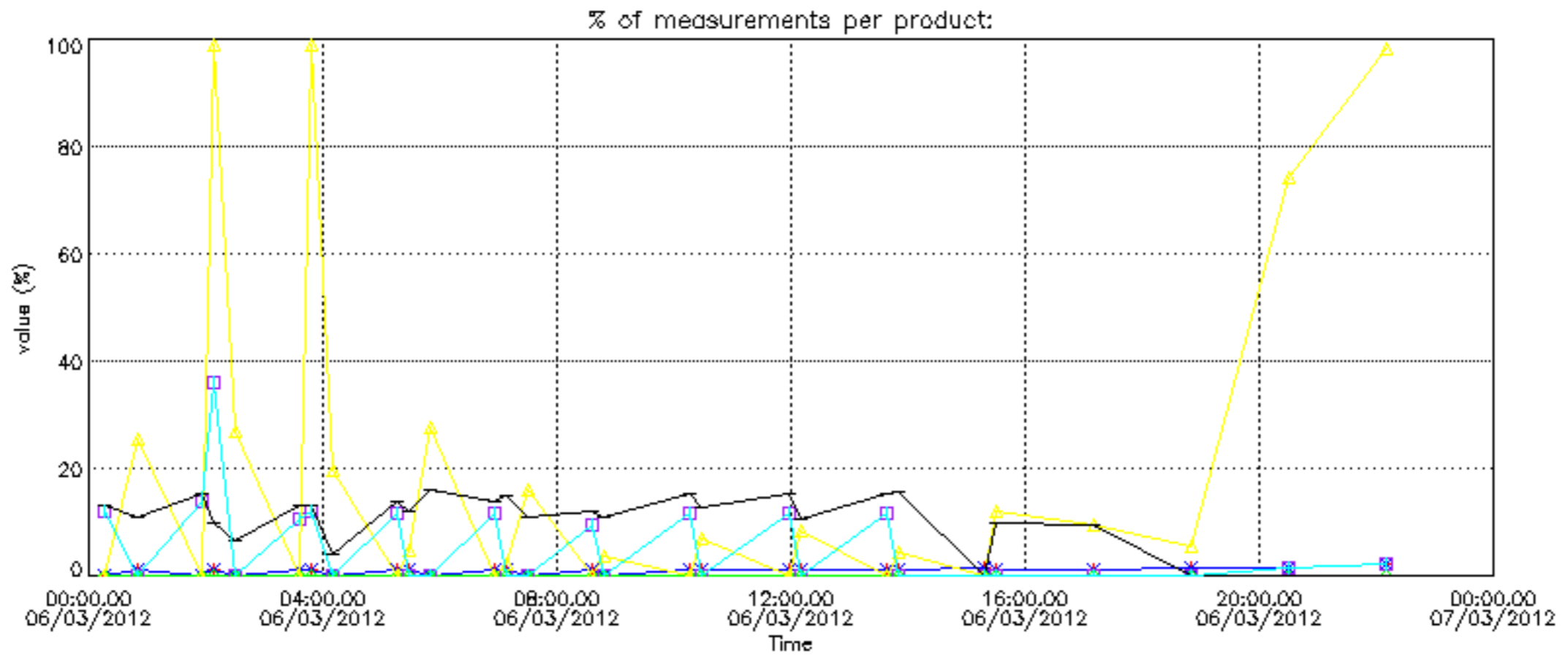


Percentage of flagged data per NO2 profile

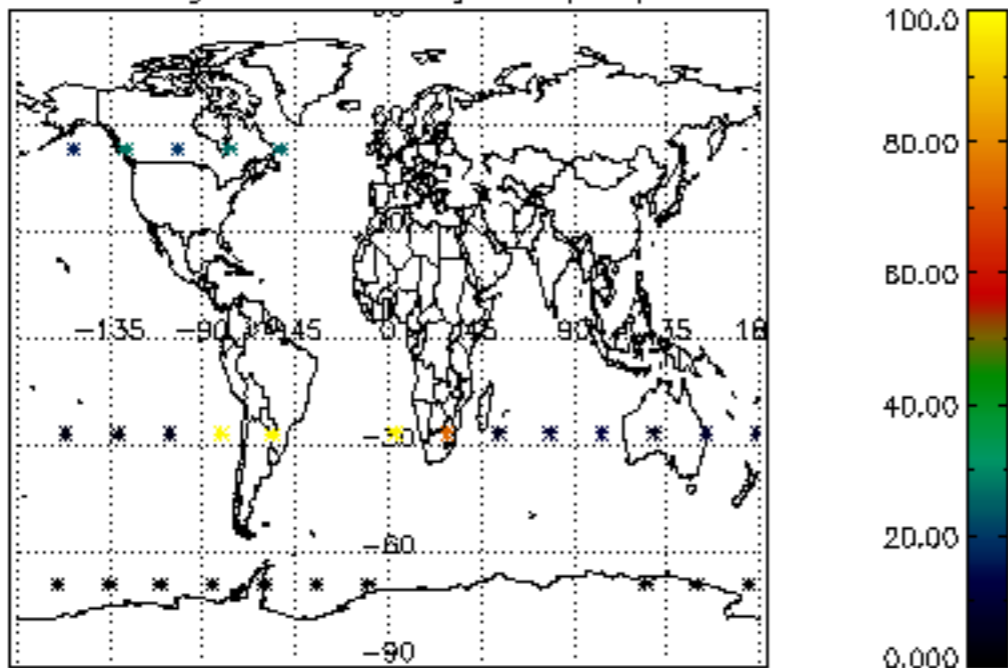


Percentage of flagged data per NO3 profile

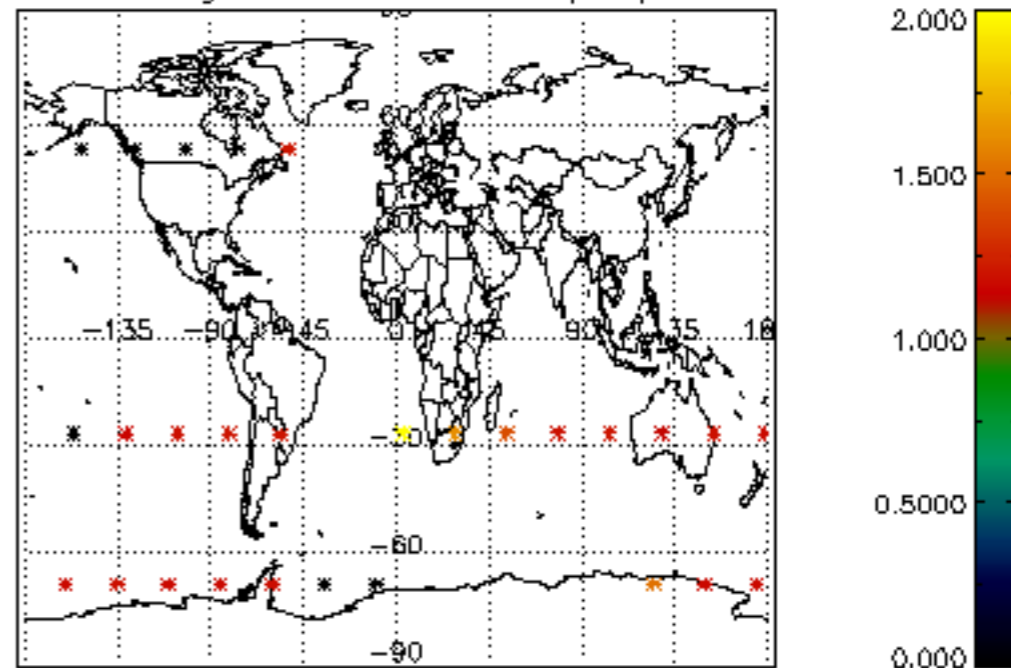




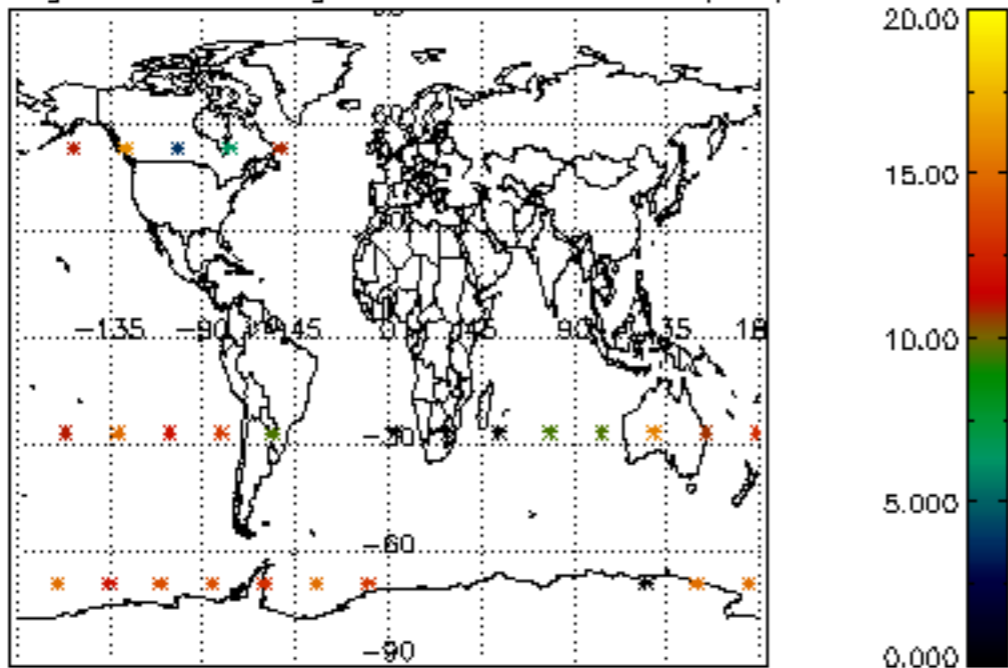
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

