

# GOMOS Level 2 Daily Report

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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	18APR2013 14:09:13
Data source version	GOMOS/6.01
Start time of products	28-02-2012 (28FEB2012 00:00:00)
Stop time of products	29-02-2012 (29FEB2012 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.

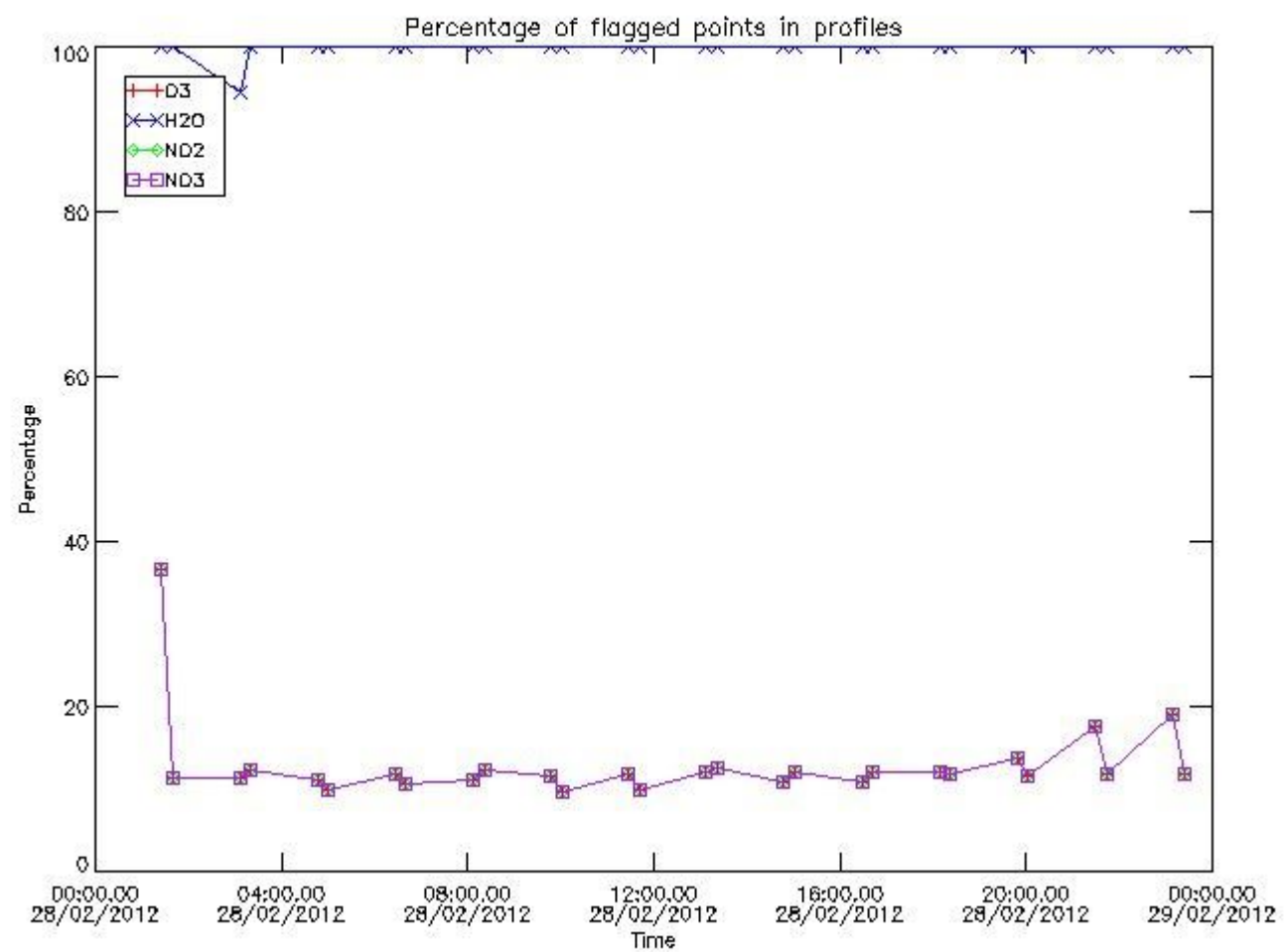
**!Warning: No products without errors in BRIGHT limb contitions found**

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20120228_012542_000000463112_00117_52286_7670.N1	28-FEB-2012 01:25:42	Dark	45.500	38	20Eps Sgr	1.8360	11000.	91	52286	No
2	GOM_NL__2PRFIN20120228_014007_000000453112_00118_52287_7685.N1	28-FEB-2012 01:40:07	Dark	45.000	10	Bet Cen	0.61000	28000.	90	52287	No
3	GOM_NL__2PRFIN20120228_030556_000000453112_00118_52287_7686.N1	28-FEB-2012 03:05:56	Dark	45.000	38	20Eps Sgr	1.8360	11000.	90	52287	No
4	GOM_NL__2PRFIN20120228_032021_000000413112_00119_52288_7695.N1	28-FEB-2012 03:20:21	Dark	41.000	10	Bet Cen	0.61000	28000.	82	52288	No
5	GOM_NL__2PRFIN20120228_044611_000000463112_00119_52288_7696.N1	28-FEB-2012 04:46:11	Dark	45.500	38	20Eps Sgr	1.8360	11000.	91	52288	No
6	GOM_NL__2PRFIN20120228_050036_000000513112_00120_52289_7699.N1	28-FEB-2012 05:00:36	Dark	50.500	10	Bet Cen	0.61000	28000.	101	52289	No
7	GOM_NL__2PRFIN20120228_062626_000000443112_00120_52289_7700.N1	28-FEB-2012 06:26:26	Dark	43.500	38	20Eps Sgr	1.8360	11000.	87	52289	No
8	GOM_NL__2PRFIN20120228_064050_000000483112_00121_52290_7708.N1	28-FEB-2012 06:40:50	Dark	47.500	10	Bet Cen	0.61000	28000.	95	52290	No
9	GOM_NL__2PRFIN20120228_080640_000000463112_00121_52290_7709.N1	28-FEB-2012 08:06:40	Dark	46.000	38	20Eps Sgr	1.8360	11000.	92	52290	No
10	GOM_NL__2PRFIN20120228_082105_000000413112_00122_52291_7740.N1	28-FEB-2012 08:21:05	Dark	41.000	10	Bet Cen	0.61000	28000.	82	52291	No
11	GOM_NL__2PRFIN20120228_094655_000000453112_00122_52291_7741.N1	28-FEB-2012 09:46:55	Dark	44.500	38	20Eps Sgr	1.8360	11000.	89	52291	No
12	GOM_NL__2PRFIN20120228_100119_000000533112_00123_52292_7803.N1	28-FEB-2012 10:01:19	Dark	52.500	10	Bet Cen	0.61000	28000.	105	52292	No
13	GOM_NL__2PRFIN20120228_112709_000000433112_00123_52292_7804.N1	28-FEB-2012 11:27:09	Dark	43.000	38	20Eps Sgr	1.8360	11000.	86	52292	No
14	GOM_NL__2PRFIN20120228_114134_000000513112_00124_52293_8139.N1	28-FEB-2012 11:41:34	Dark	51.000	10	Bet Cen	0.61000	28000.	102	52293	No
15	GOM_NL__2PRFIN20120228_130724_000000423112_00124_52293_8140.N1	28-FEB-2012 13:07:24	Dark	42.000	38	20Eps Sgr	1.8360	11000.	84	52293	No
16	GOM_NL__2PRFIN20120228_132148_000000413112_00125_52294_7967.N1	28-FEB-2012 13:21:48	Dark	40.500	10	Bet Cen	0.61000	28000.	81	52294	No
17	GOM_NL__2PRFIN20120228_144738_000000473112_00125_52294_7968.N1	28-FEB-2012 14:47:38	Dark	46.500	38	20Eps Sgr	1.8360	11000.	93	52294	No
18	GOM_NL__2PRFIN20120228_150203_000000423112_00126_52295_8006.N1	28-FEB-2012 15:02:03	Dark	42.000	10	Bet Cen	0.61000	28000.	84	52295	No
19	GOM_NL__2PRFIN20120228_162753_000000473112_00126_52295_8007.N1	28-FEB-2012 16:27:53	Dark	47.000	38	20Eps Sgr	1.8360	11000.	94	52295	No
20	GOM_NL__2PRFIN20120228_164217_000000423112_00127_52296_8031.N1	28-FEB-2012 16:42:17	Dark	42.000	10	Bet Cen	0.61000	28000.	84	52296	No
21	GOM_NL__2PRFIN20120228_180808_000000423112_00127_52296_8032.N1	28-FEB-2012 18:08:08	Dark	42.000	38	20Eps Sgr	1.8360	11000.	84	52296	No
22	GOM_NL__2PRFIN20120228_182232_000000433112_00128_52297_8179.N1	28-FEB-2012 18:22:32	Dark	43.000	10	Bet Cen	0.61000	28000.	86	52297	No
23	GOM_NL__2PRFIN20120228_194822_000000373112_00128_52297_8180.N1	28-FEB-2012 19:48:22	Dark	37.000	38	20Eps Sgr	1.8360	11000.	74	52297	No
24	GOM_NL__2PRFIN20120228_200247_000000443112_00129_52298_8167.N1	28-FEB-2012 20:02:47	Dark	44.000	10	Bet Cen	0.61000	28000.	88	52298	No
25	GOM_NL__2PRFIN20120228_212837_000000323112_00129_52298_8168.N1	28-FEB-2012 21:28:37	Dark	32.000	38	20Eps Sgr	1.8360	11000.	64	52298	No
26	GOM_NL__2PRFIN20120228_214301_000000433112_00130_52299_8112.N1	28-FEB-2012 21:43:01	Dark	42.500	10	Bet Cen	0.61000	28000.	85	52299	No
27	GOM_NL__2PRFIN20120228_230851_000000273112_00130_52299_8113.N1	28-FEB-2012 23:08:51	Dark	27.000	38	20Eps Sgr	1.8360	11000.	54	52299	No
28	GOM_NL__2PRFIN20120228_232315_000000433112_00131_52300_8130.N1	28-FEB-2012 23:23:15	Dark	43.000	10	Bet Cen	0.61000	28000.	86	52300	No

## 3. Quality information per product

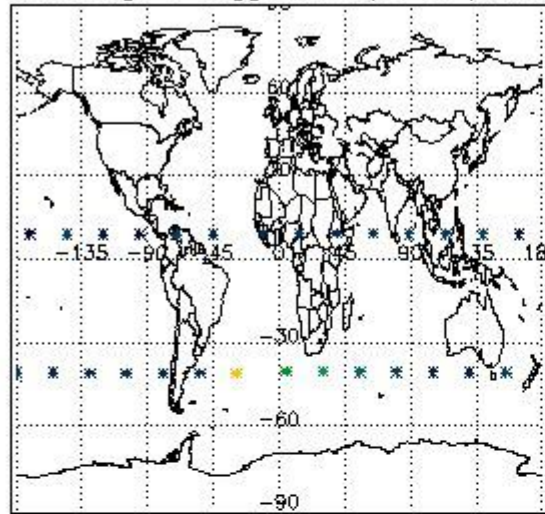
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

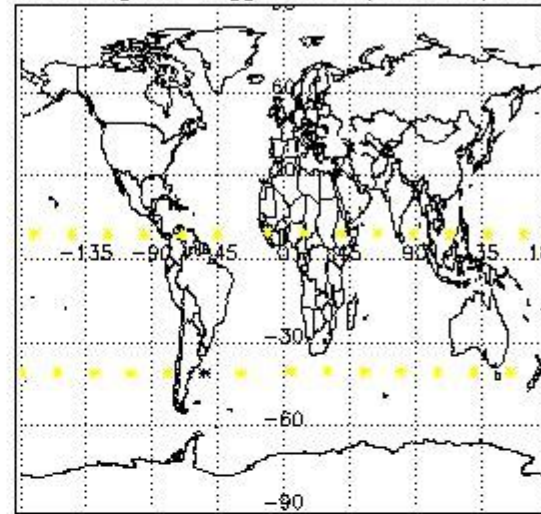


*3.2 Plot quality information per product (world map)*

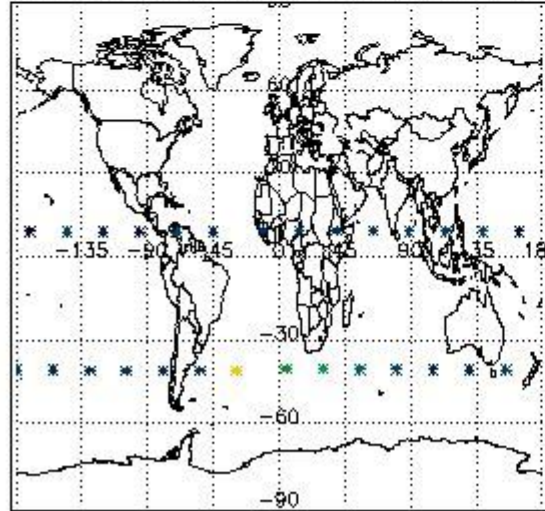
Percentage of flagged data per O3 profile



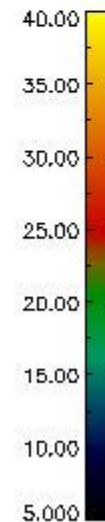
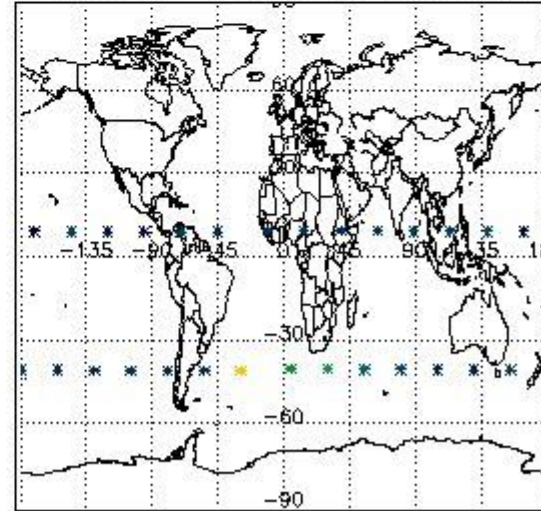
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

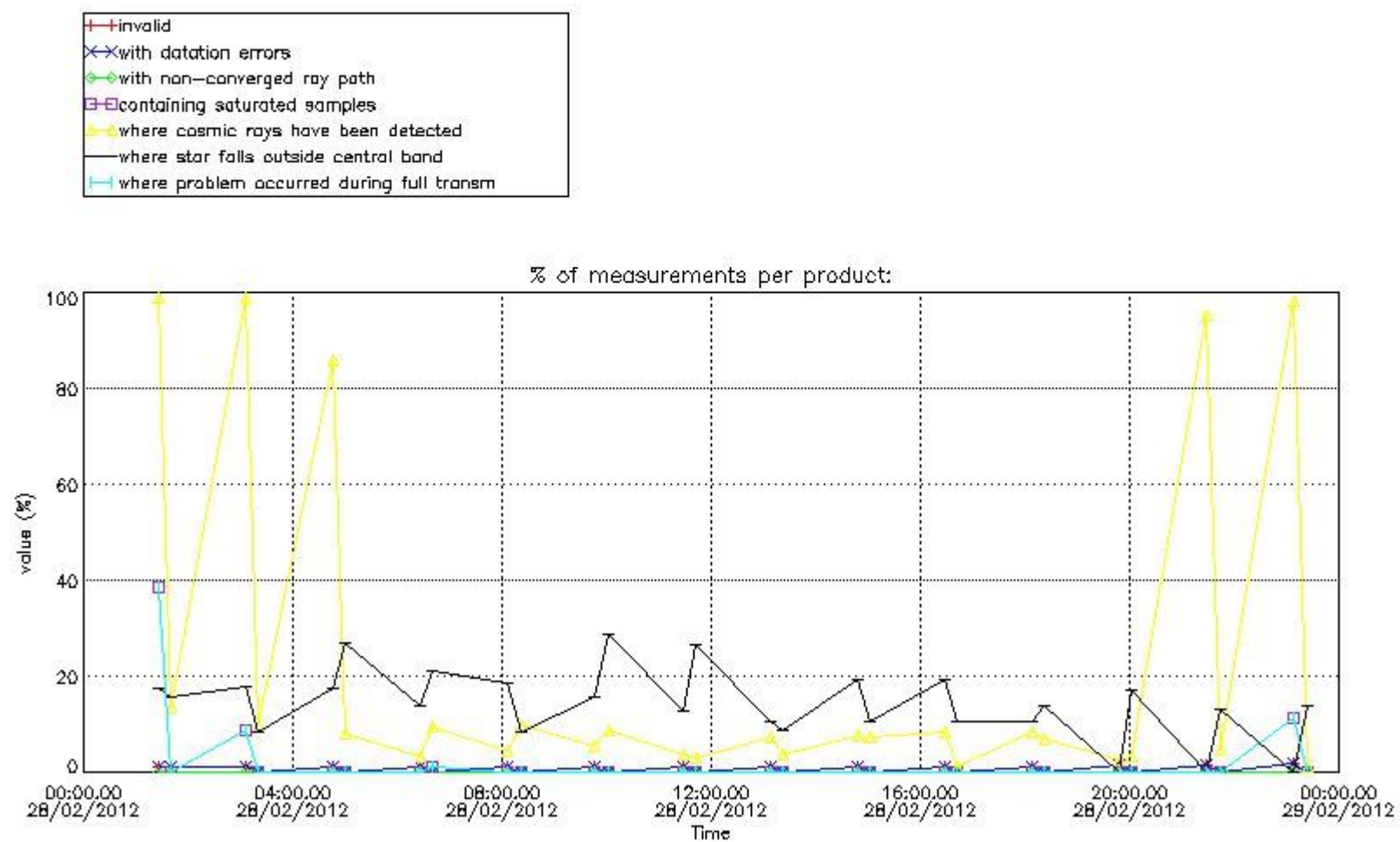


#### 4. Level 1 quality information per product

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

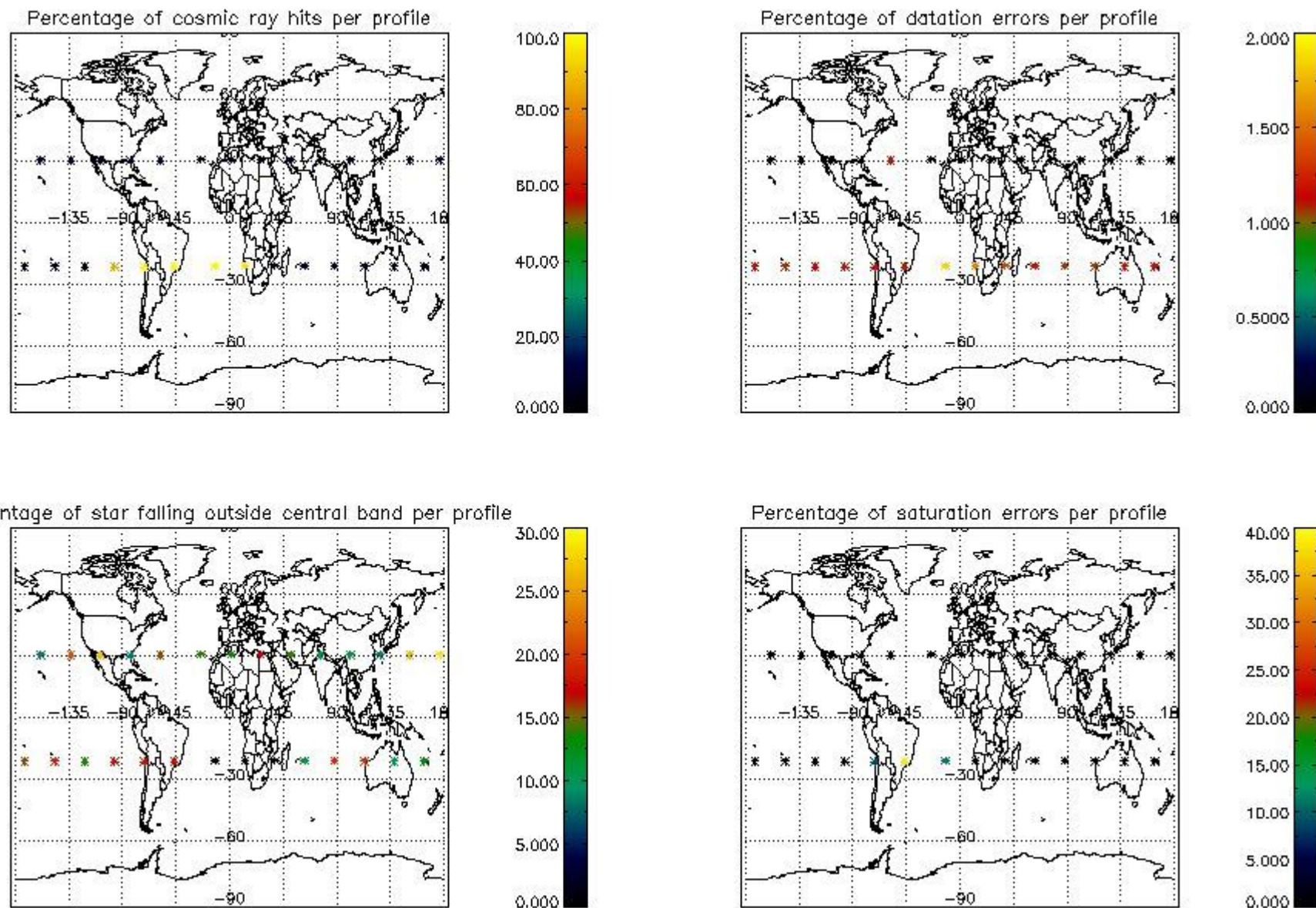


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

!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:

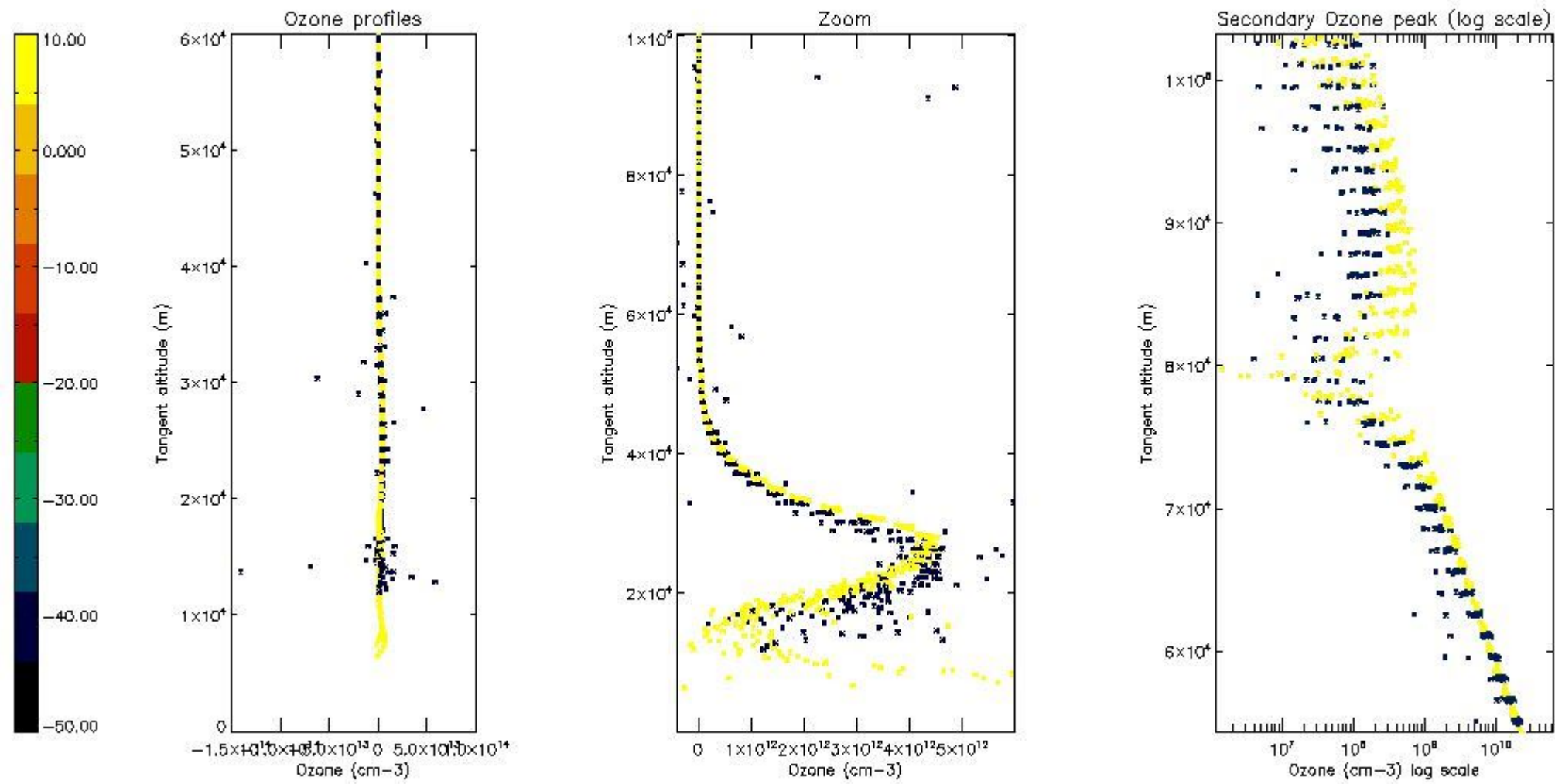
- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

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	100
STD < 20	62
STD < 10	55
STD < 5	40

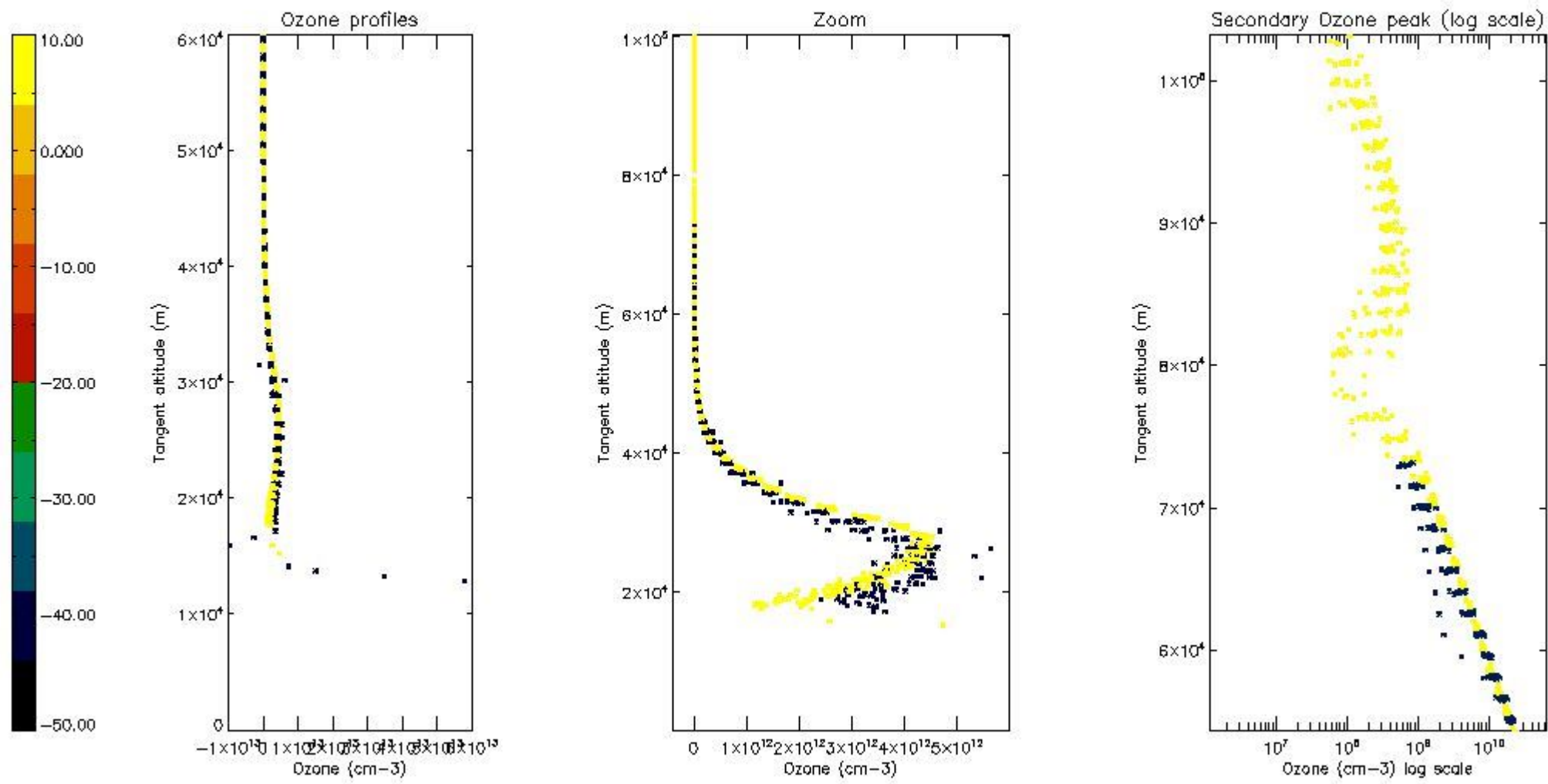
### 5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

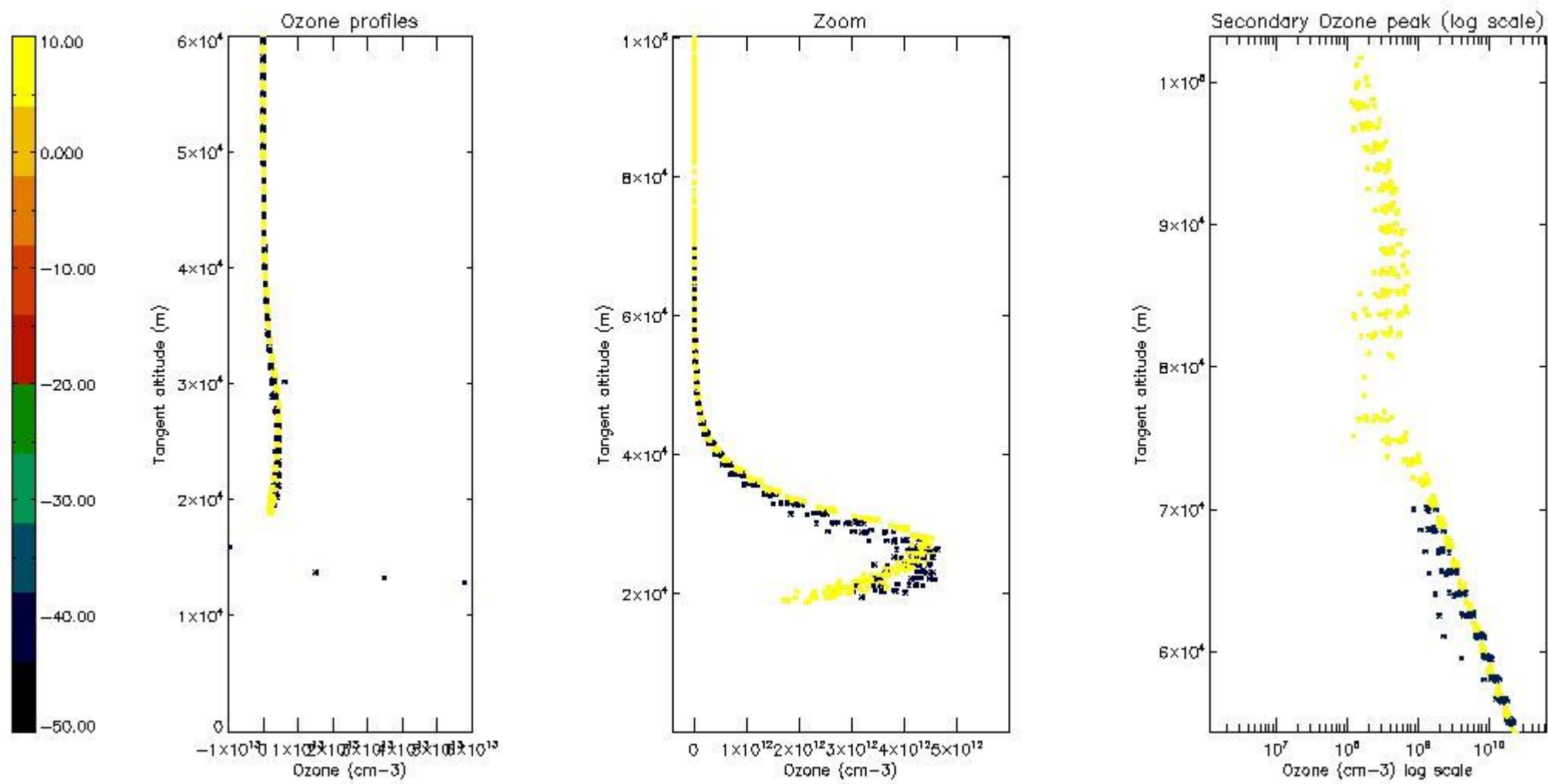
The colorbar represents the latitude.



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

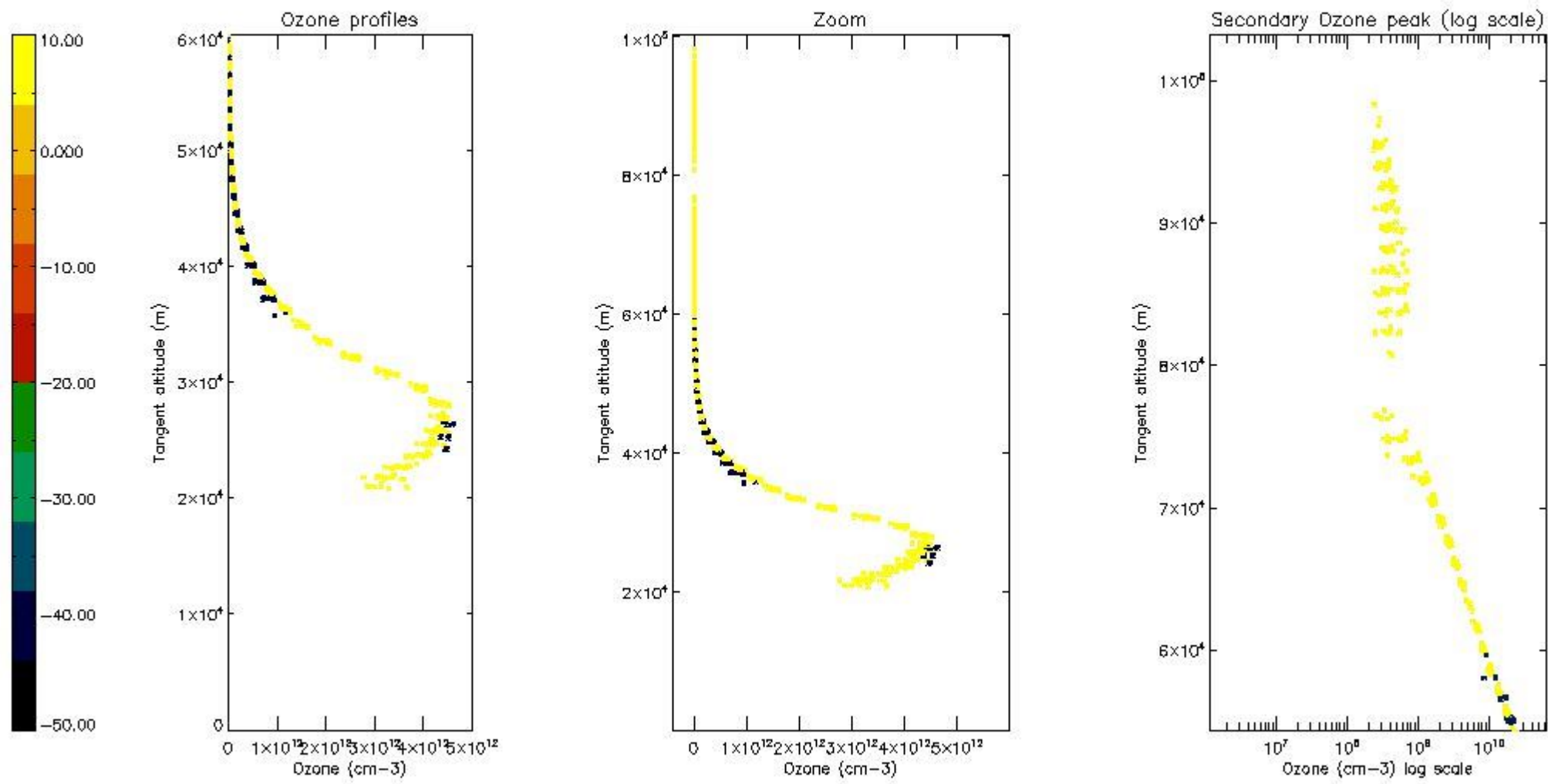
The colorbar represents the latitude.





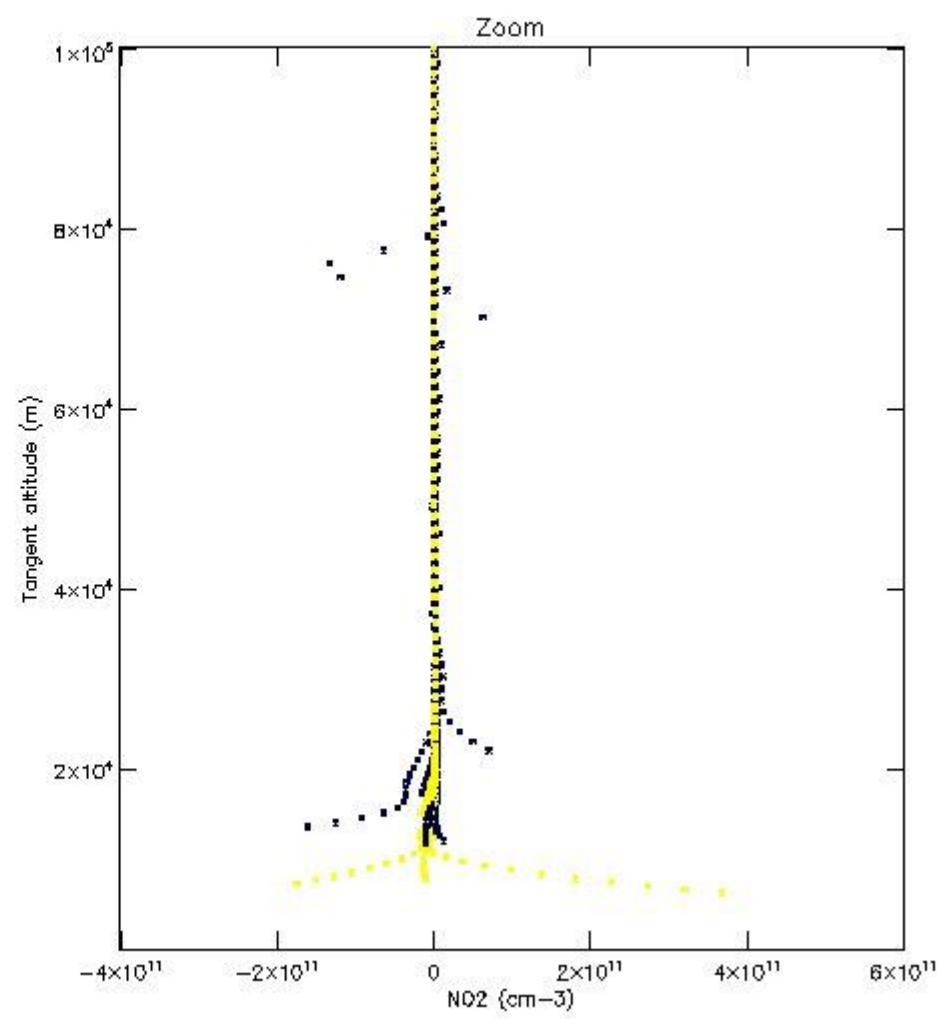
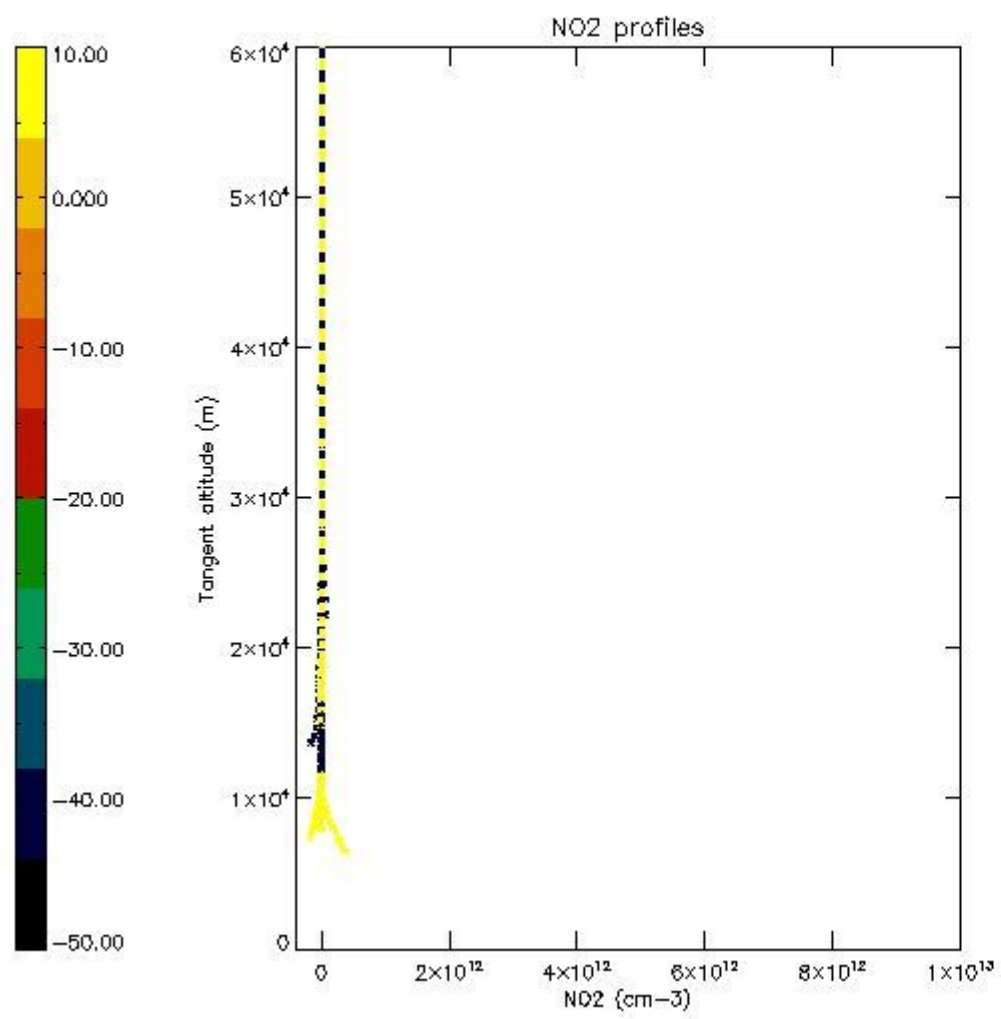
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



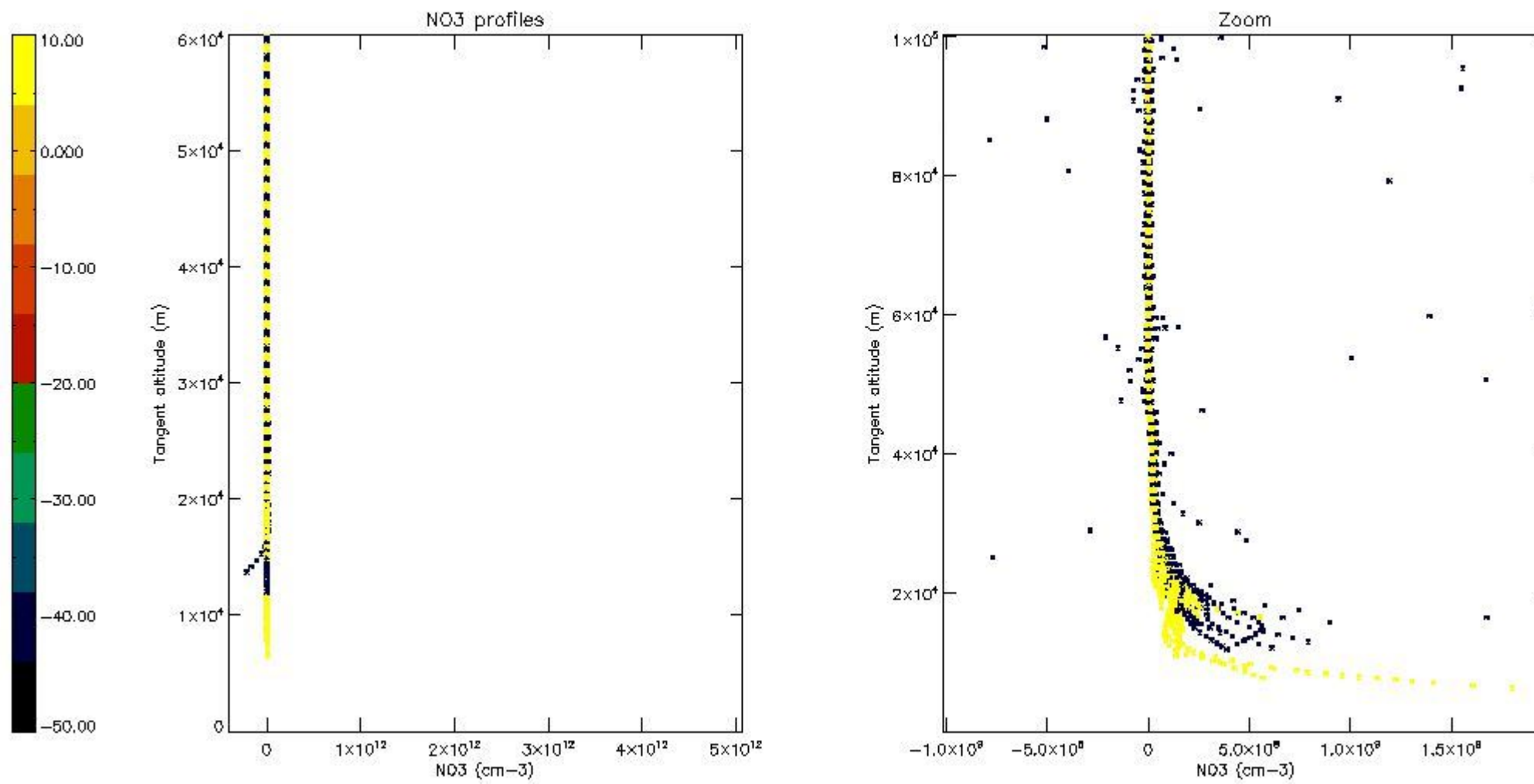
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.



## 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	28-FEB-2012 01:25:42
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-FEB-2012 01:25:42
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-FEB-2012 01:25:42

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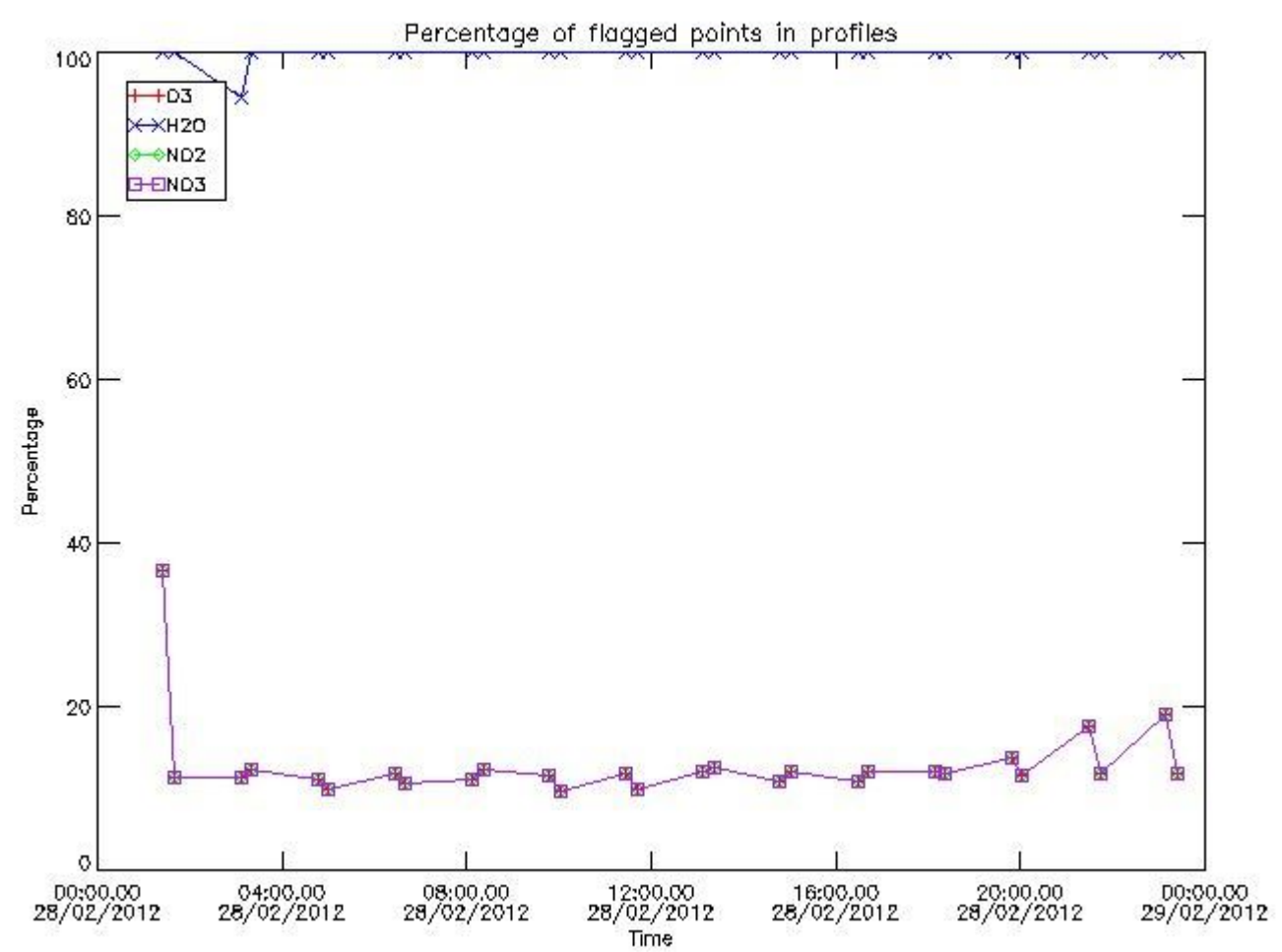
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25	GOM_NL__2PRFIN20120228_212837_000000323112_00129_52298_8168.N1	28-FEB-2012 21:28:37	Dark	32.000	38	20Eps Sgr	1.8360	11000.	64	52298	No
26	GOM_NL__2PRFIN20120228_214301_000000433112_00130_52299_8112.N1	28-FEB-2012 21:43:01	Dark	42.500	10	Bet Cen	0.61000	28000.	85	52299	No
27	GOM_NL__2PRFIN20120228_230851_000000273112_00130_52299_8113.N1	28-FEB-2012 23:08:51	Dark	27.000	38	20Eps Sgr	1.8360	11000.	54	52299	No
28	GOM_NL__2PRFIN20120228_232315_000000433112_00131_52300_8130.N1	28-FEB-2012 23:23:15	Dark	43.000	10	Bet Cen	0.61000	28000.	86	52300	No

## 3. Quality information per product

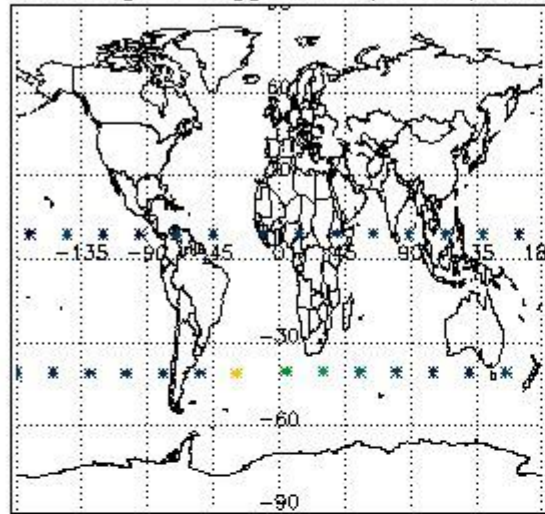
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

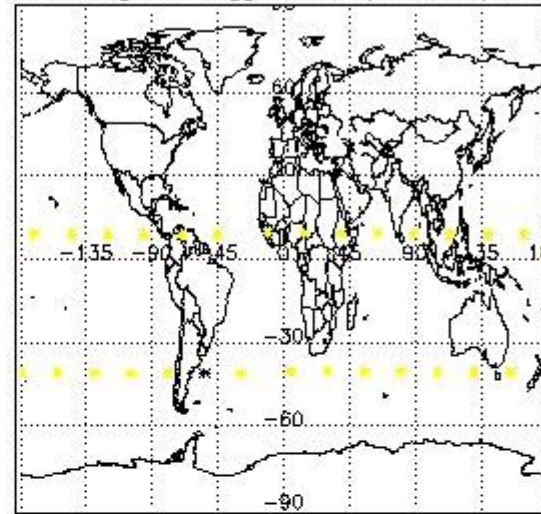


3.2 Plot quality information per product (world map)

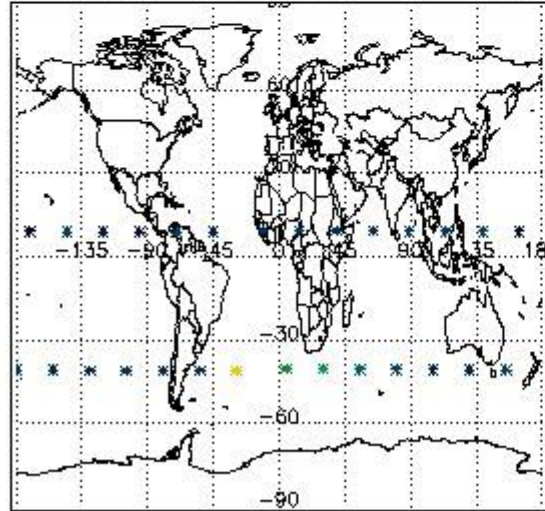
Percentage of flagged data per O3 profile



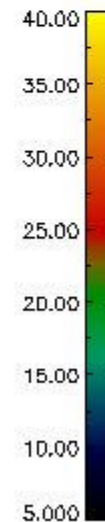
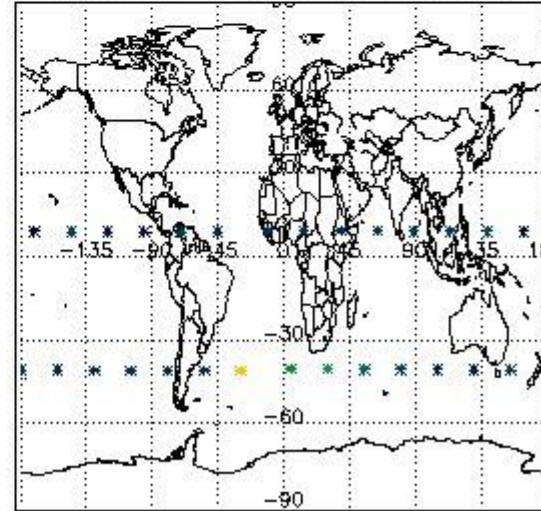
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



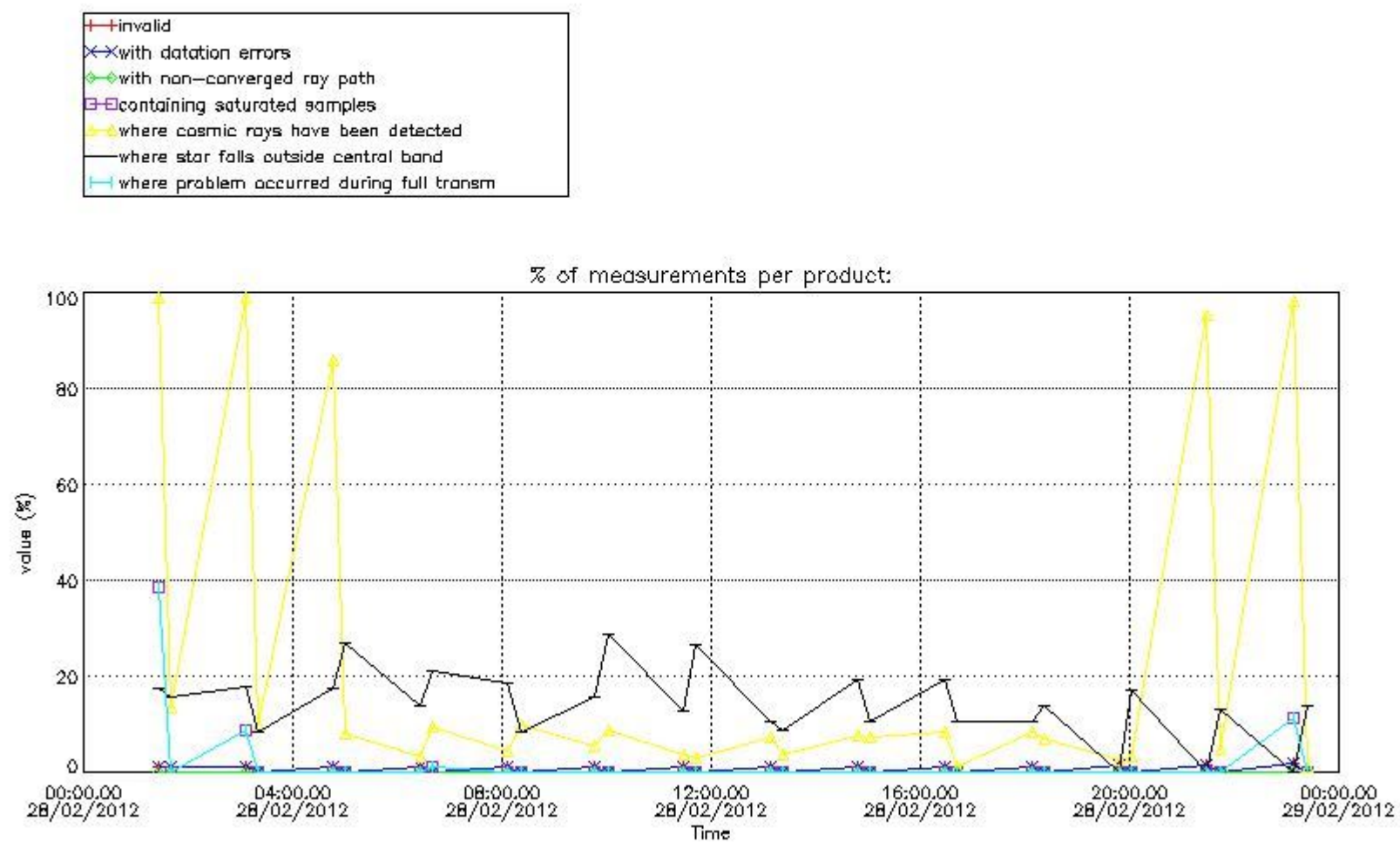
#### 4. Level 1 quality information per product

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



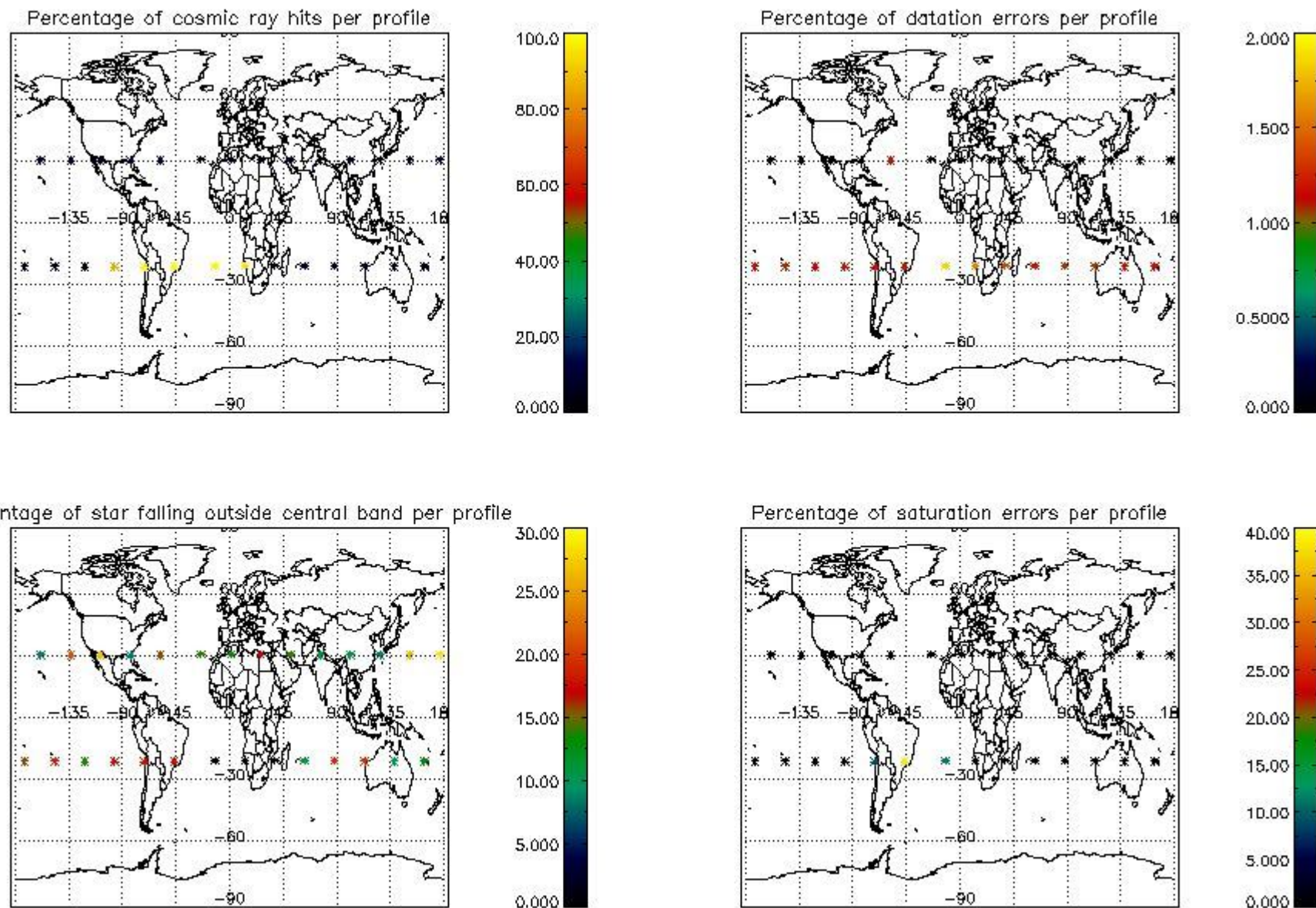


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

!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:

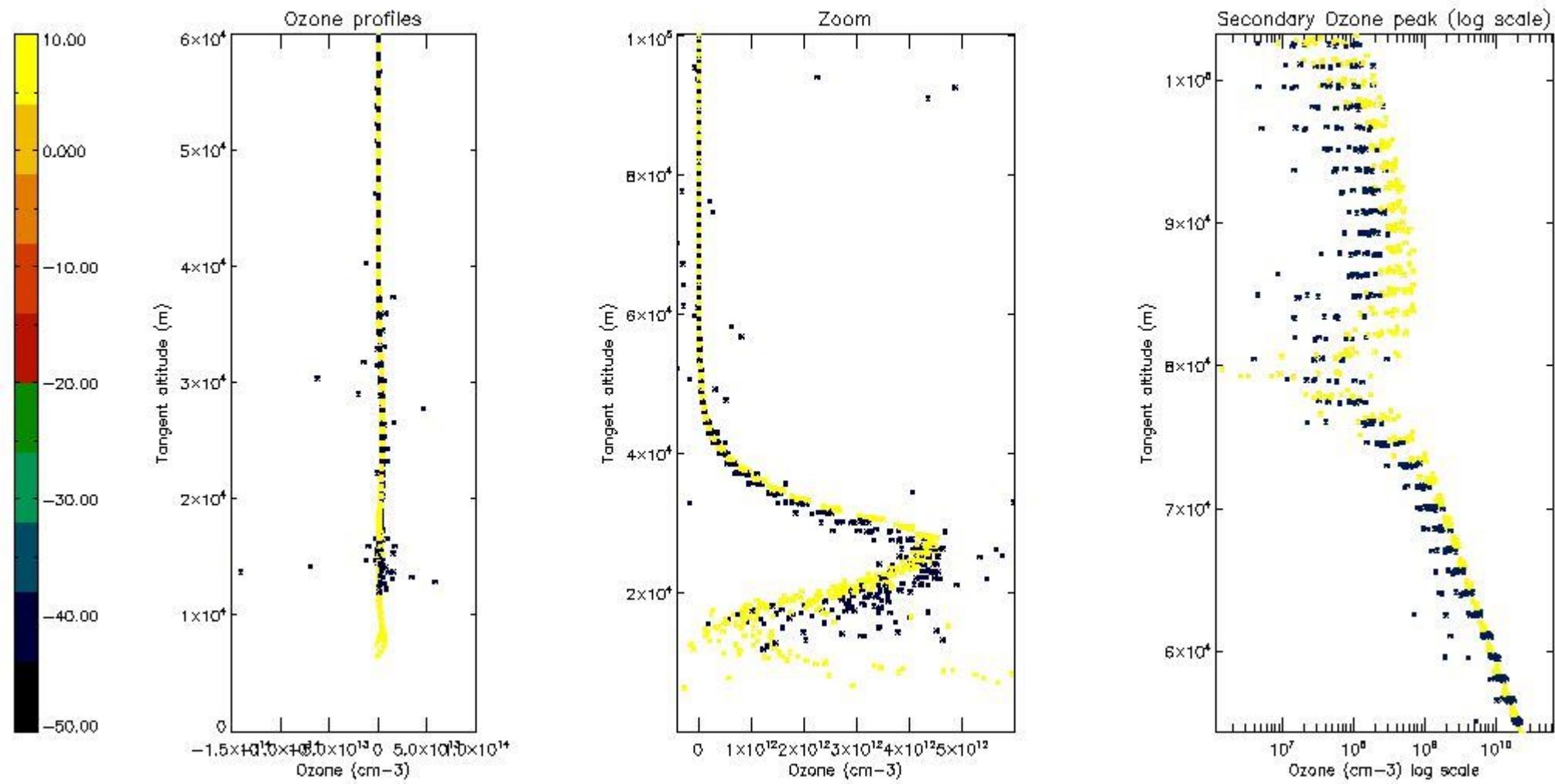
- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

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	100
STD < 20	62
STD < 10	55
STD < 5	40

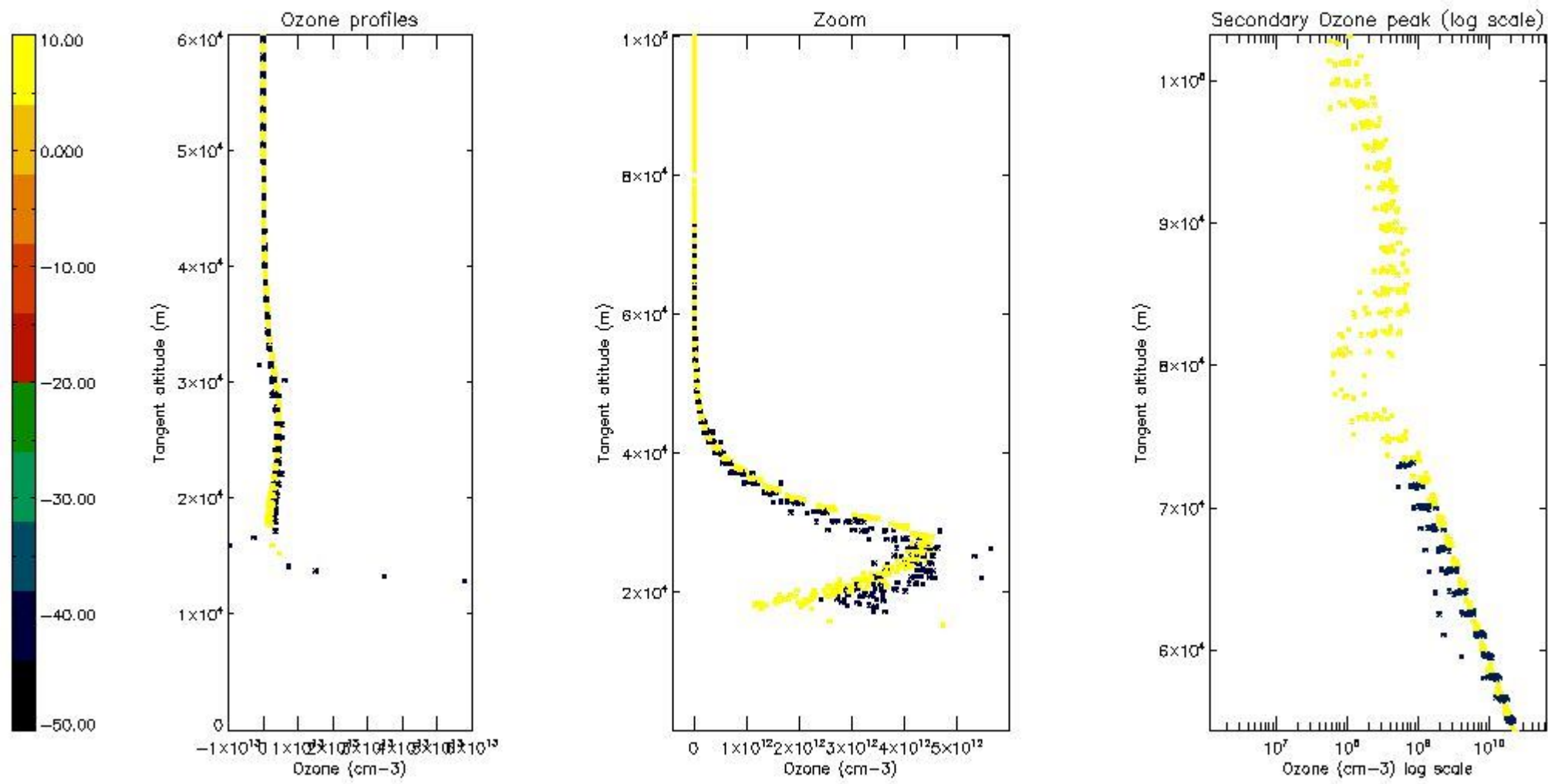
### 5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



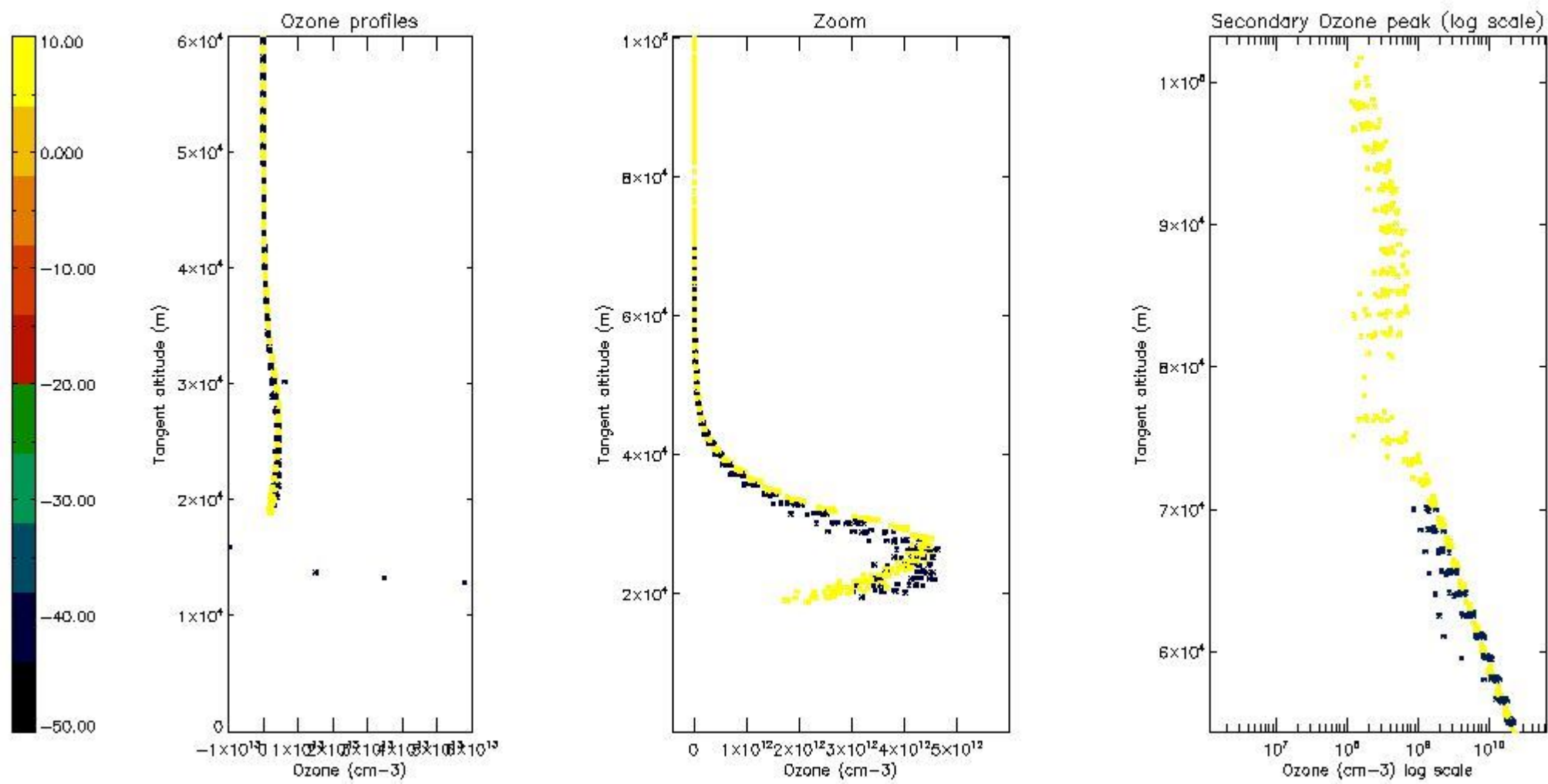
### 5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



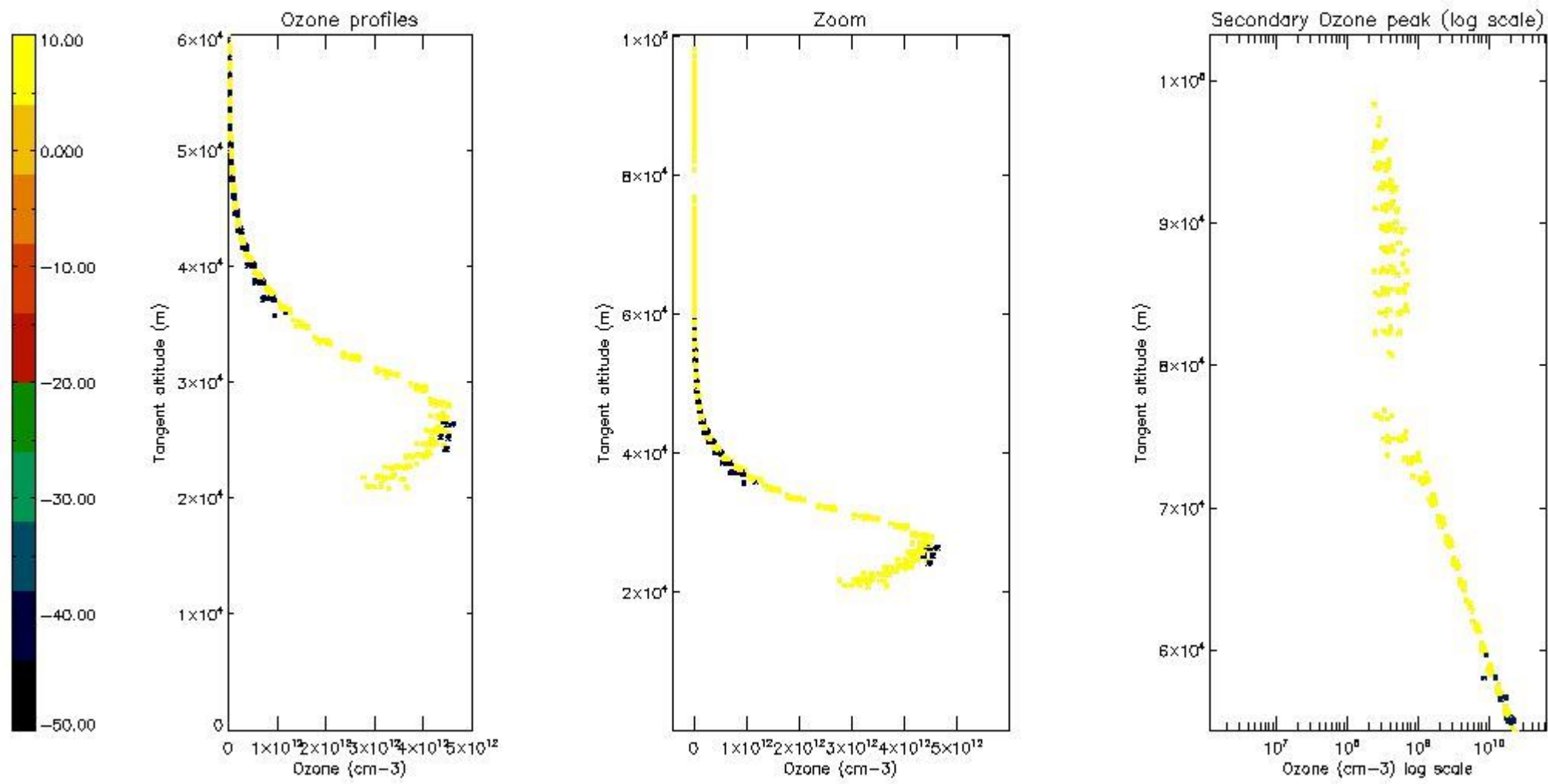
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



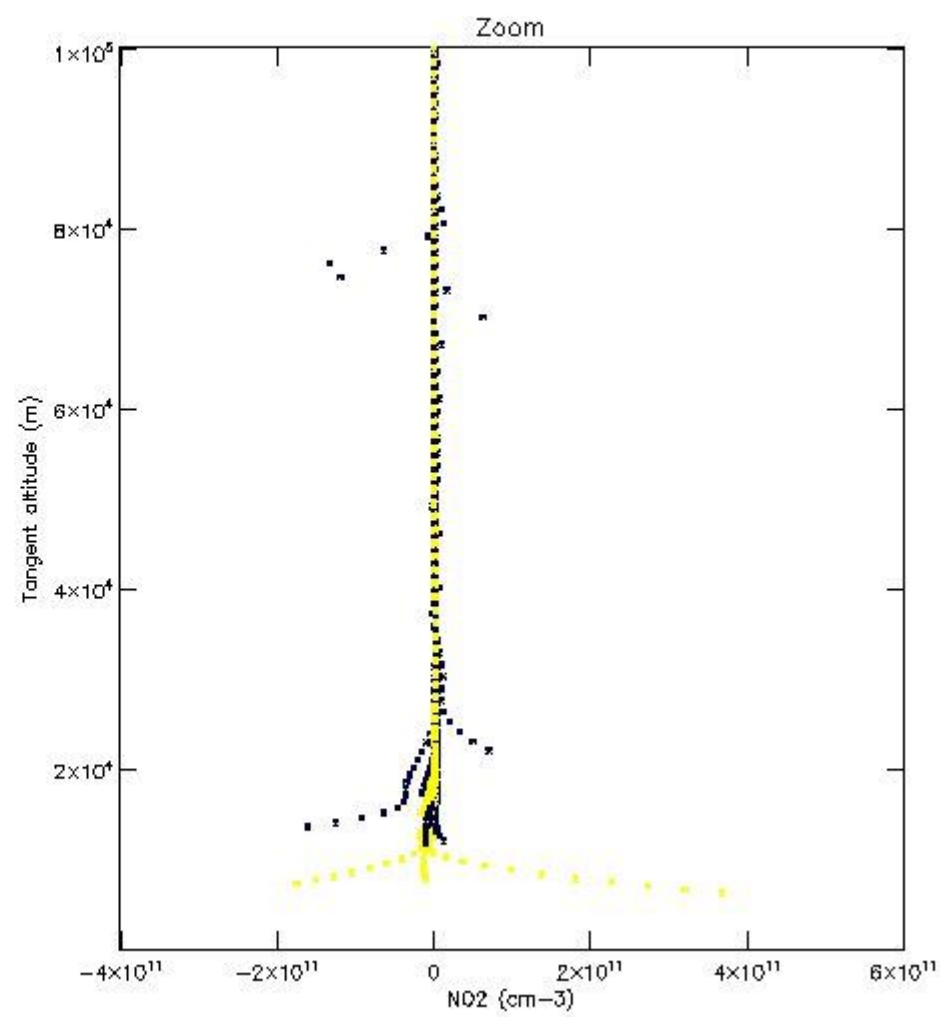
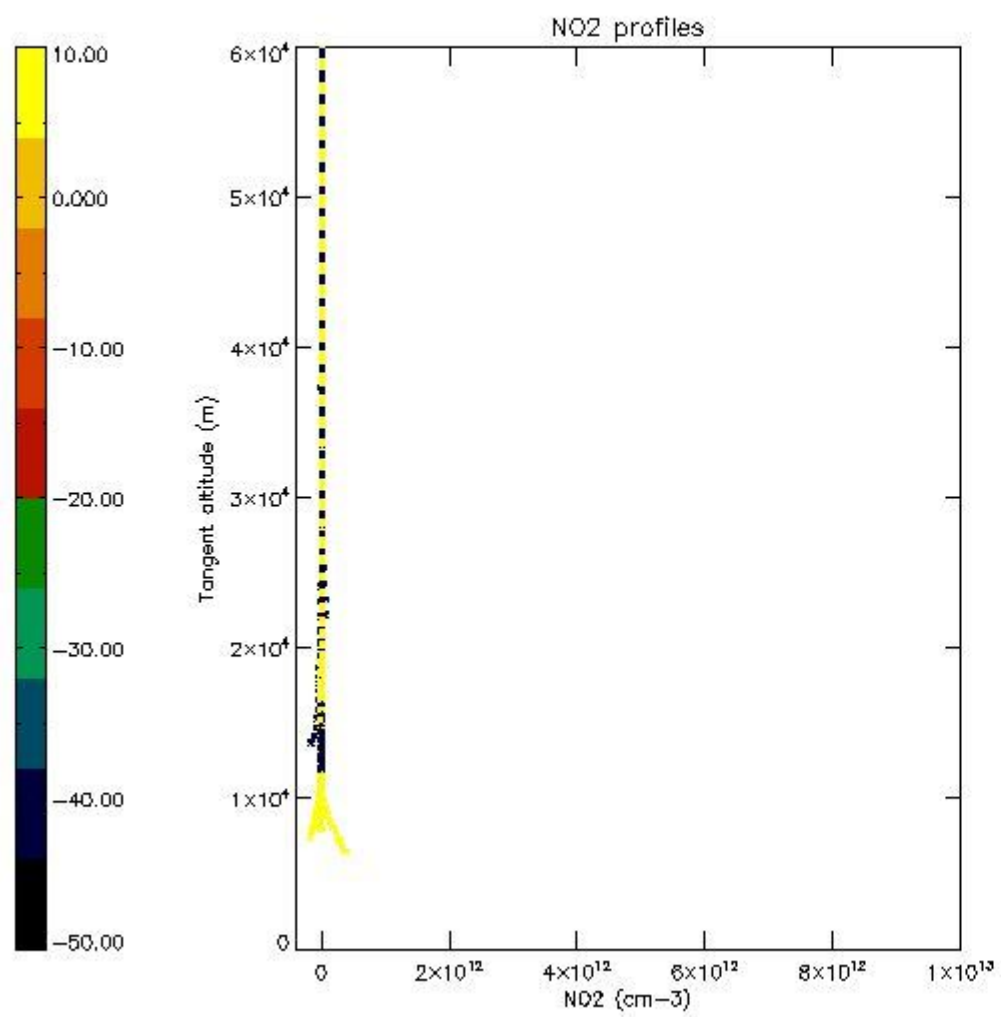
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



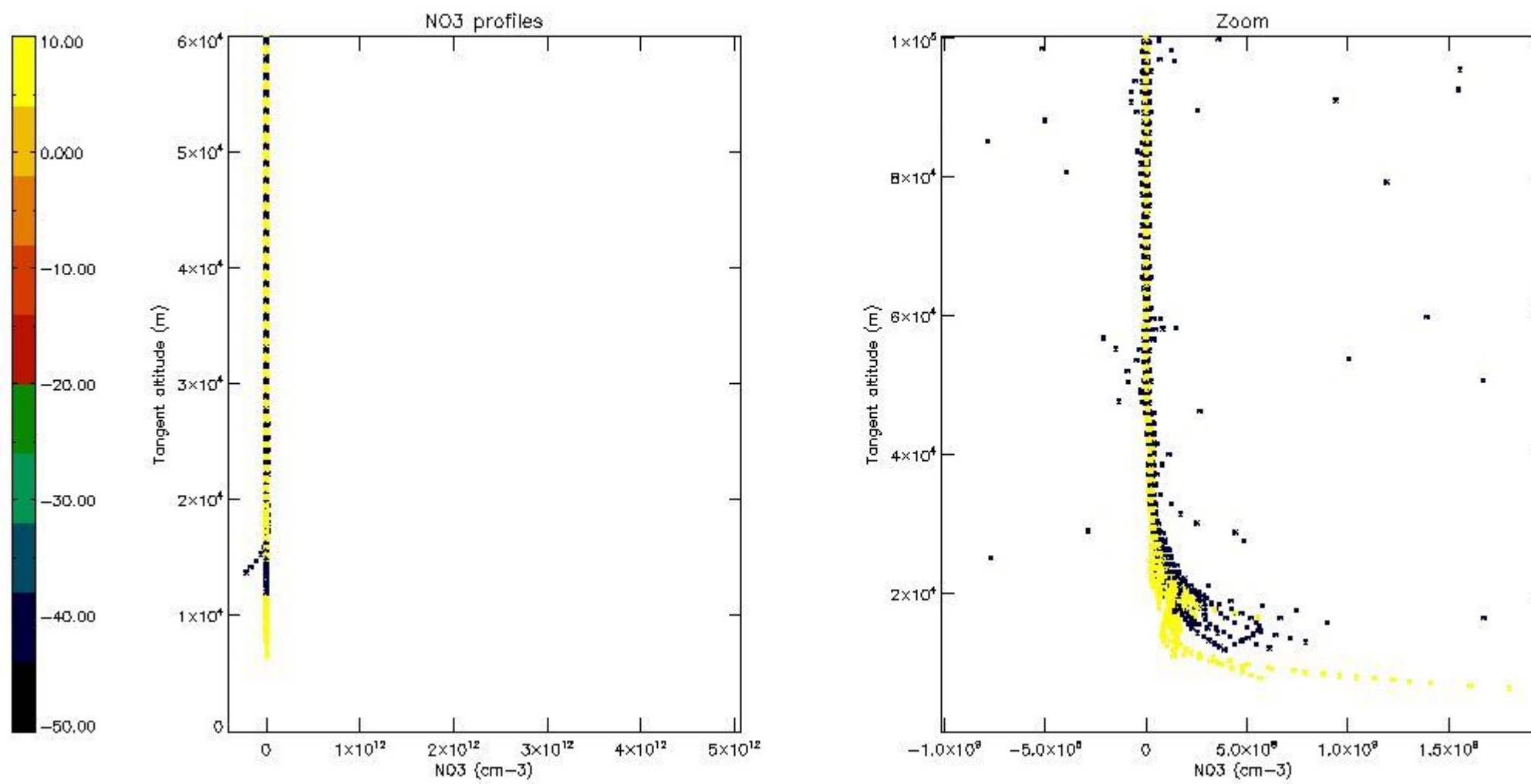
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.

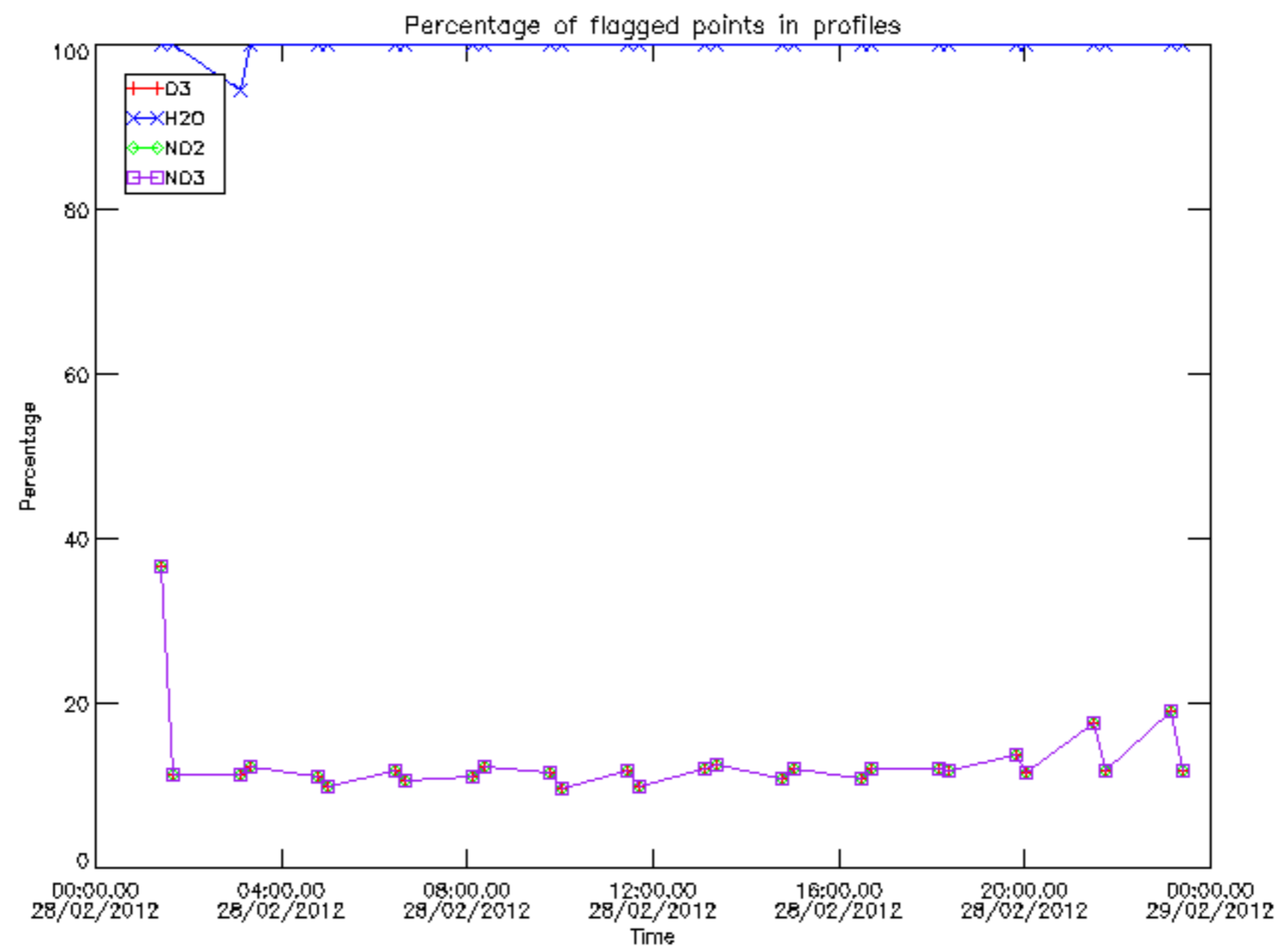


## 6. Auxiliary Data Files used for the production reported in section 2

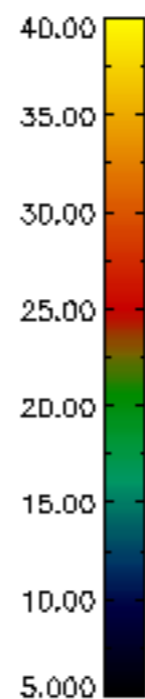
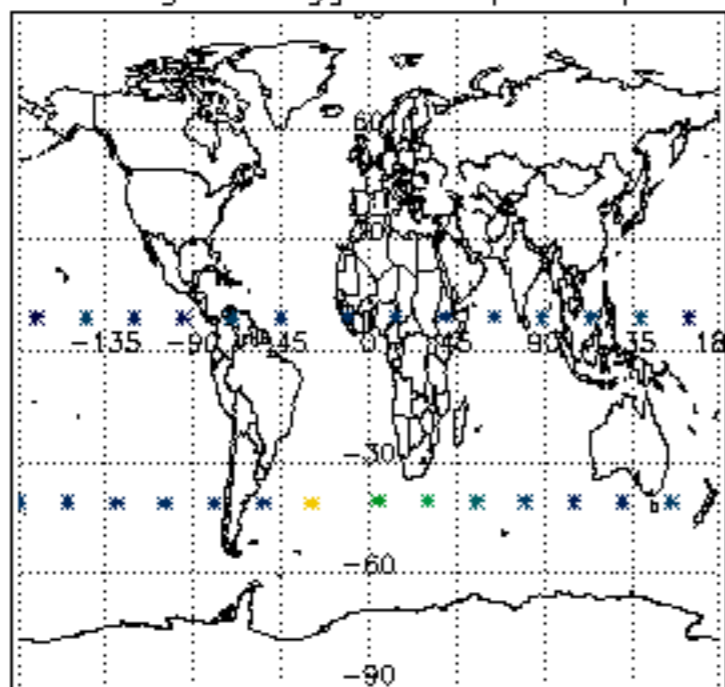
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	28-FEB-2012 01:25:42
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-FEB-2012 01:25:42
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-FEB-2012 01:25:42

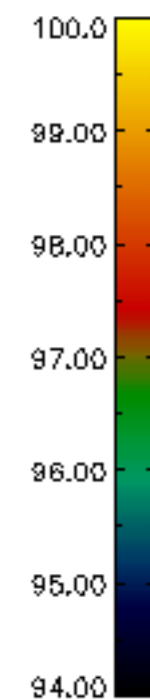
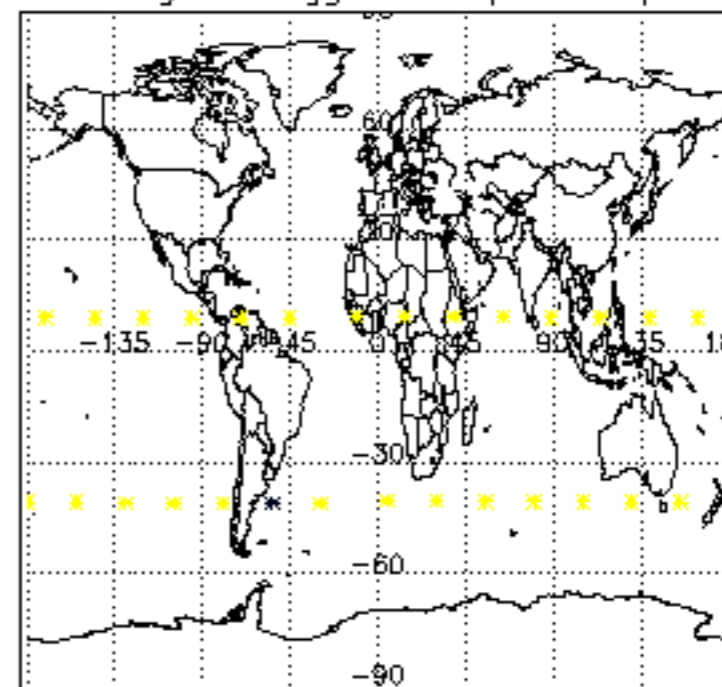




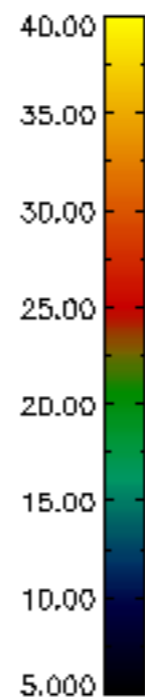
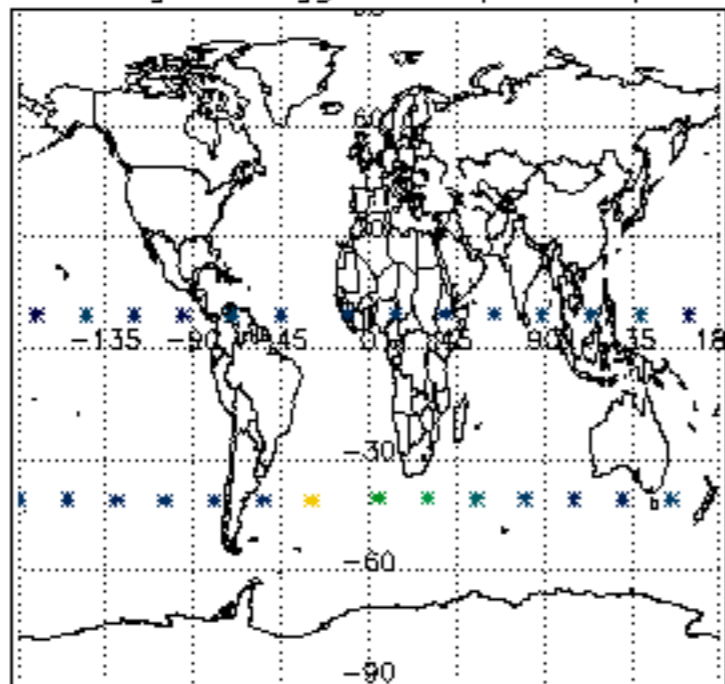
Percentage of flagged data per D3 profile



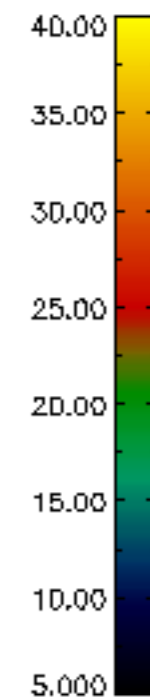
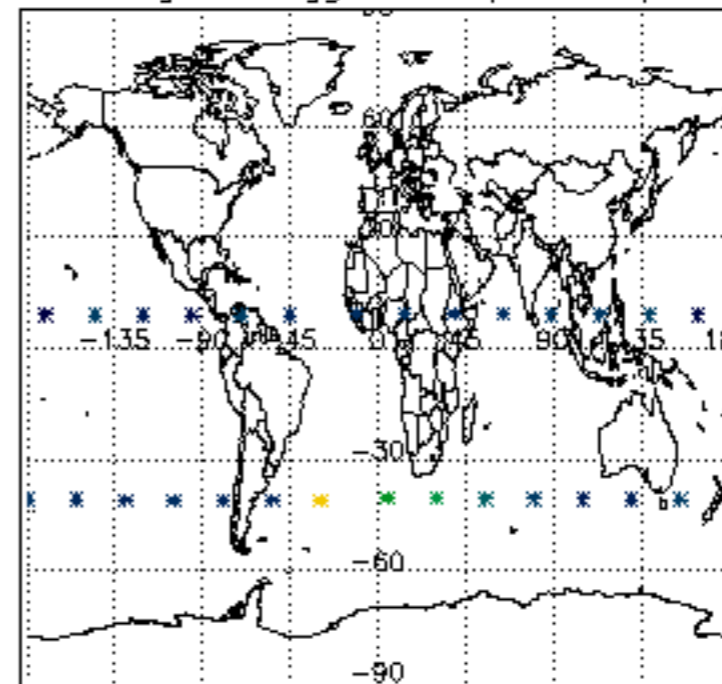
Percentage of flagged data per H2O profile

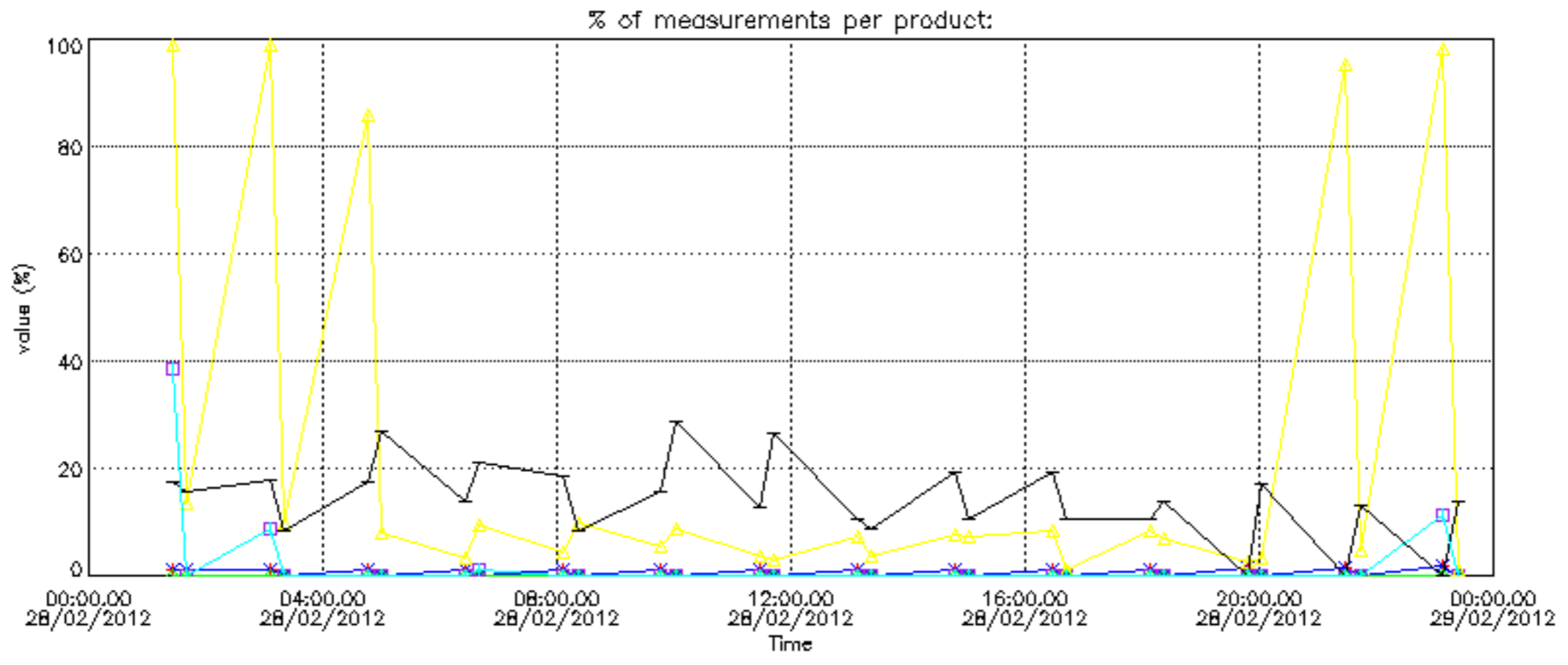


Percentage of flagged data per NO2 profile

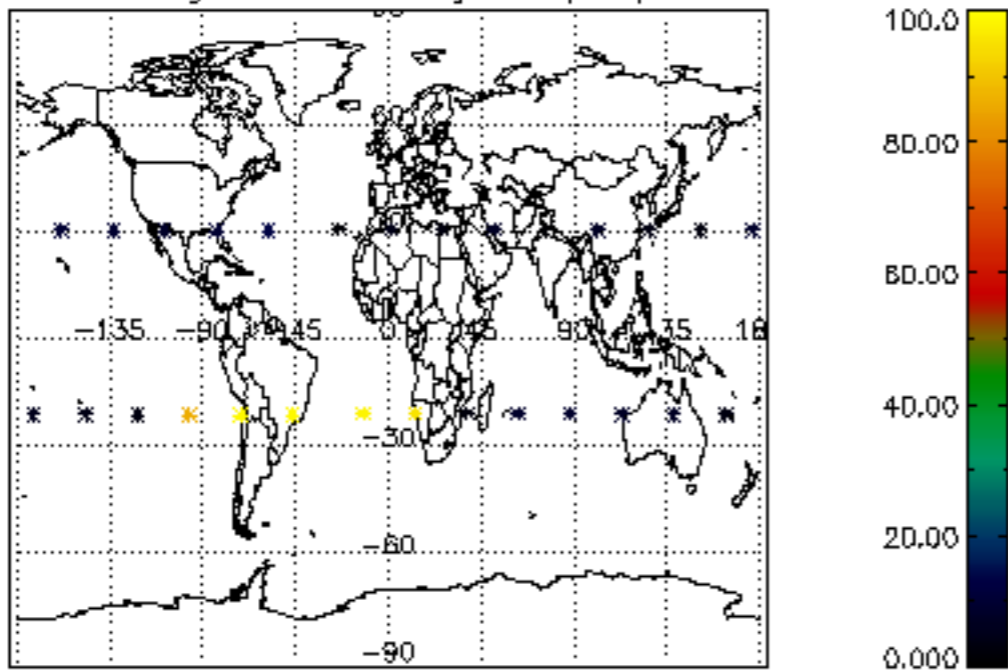


Percentage of flagged data per NO3 profile

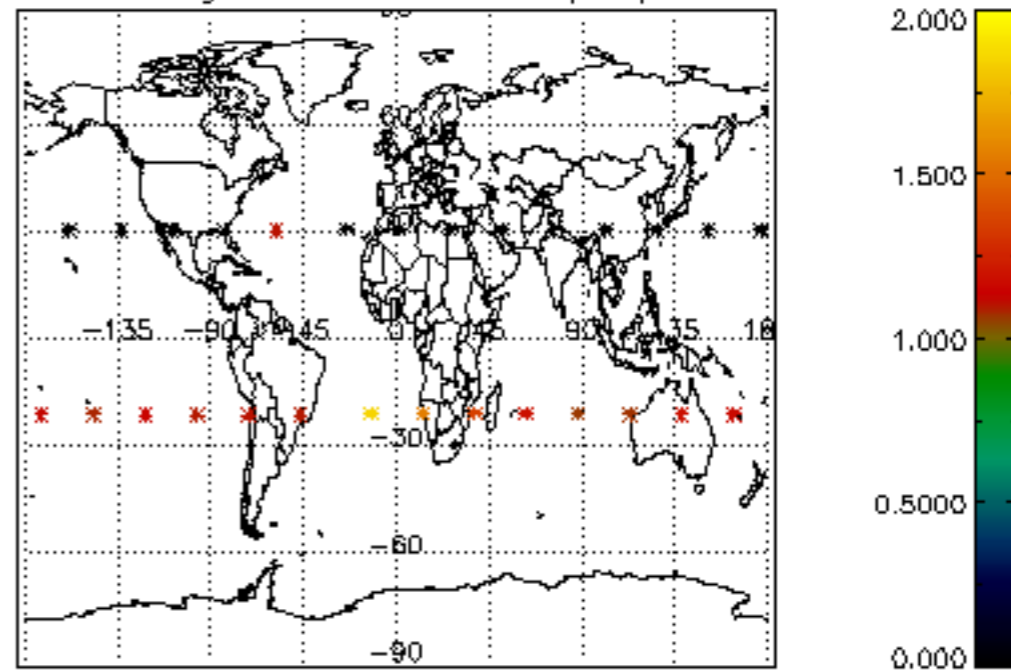




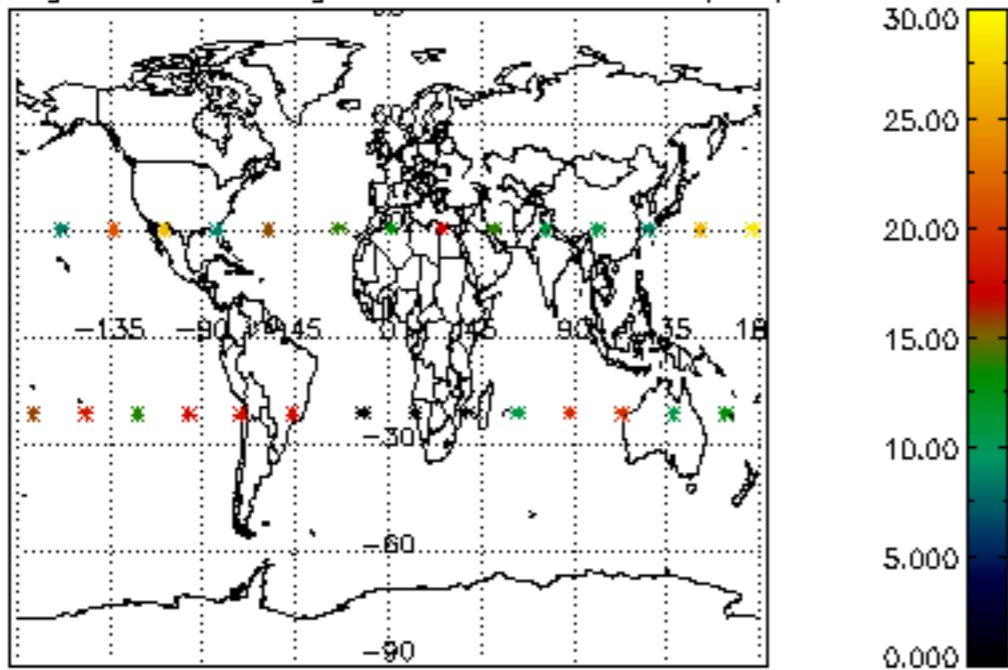
Percentage of cosmic ray hits per profile



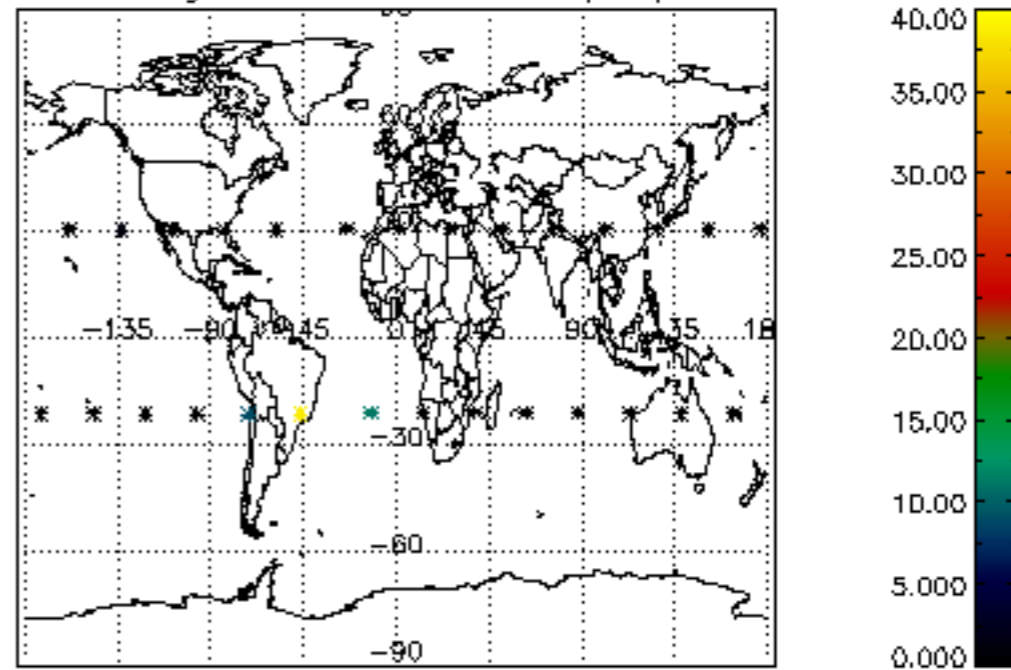
Percentage of datation errors per profile

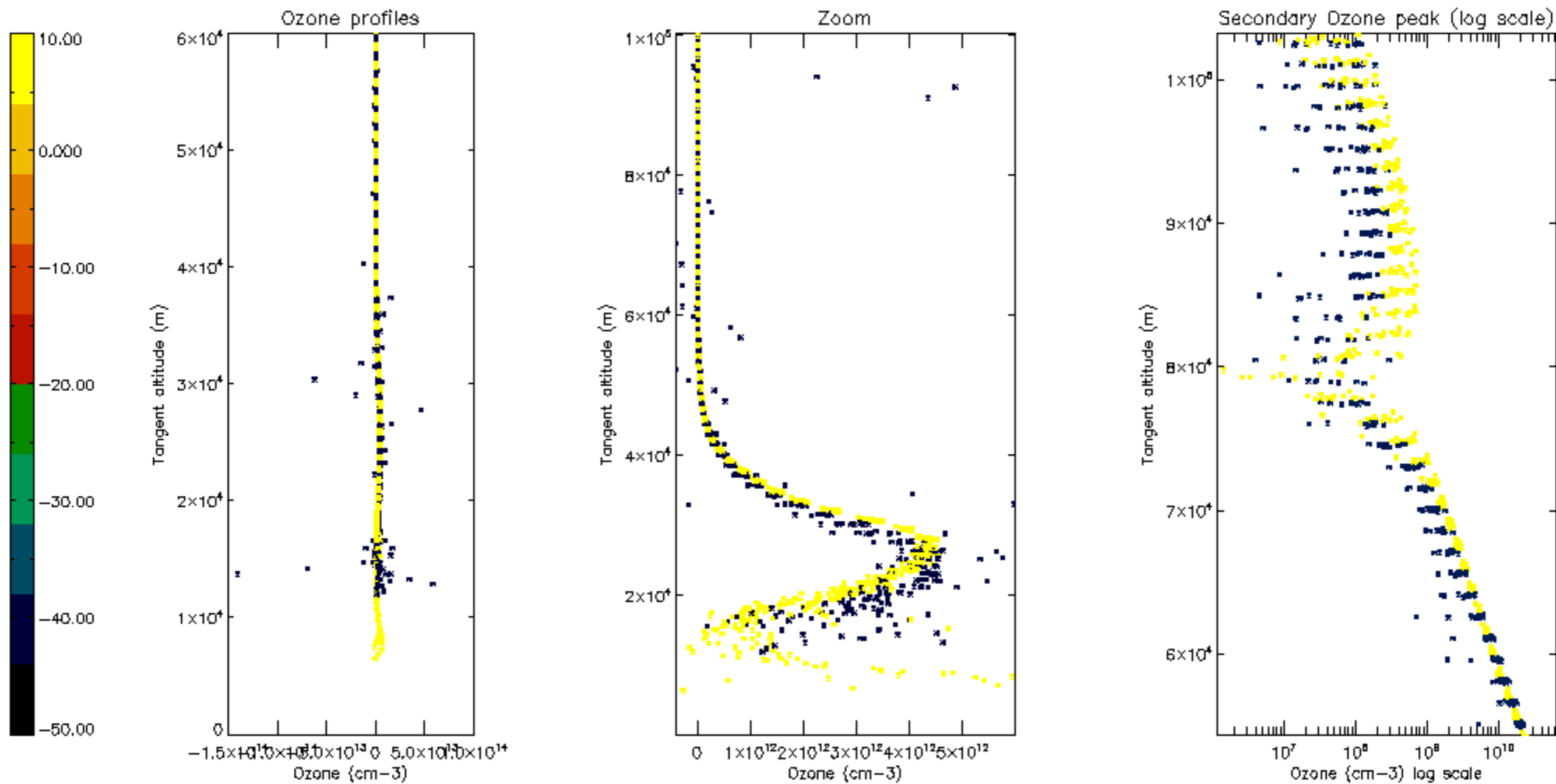


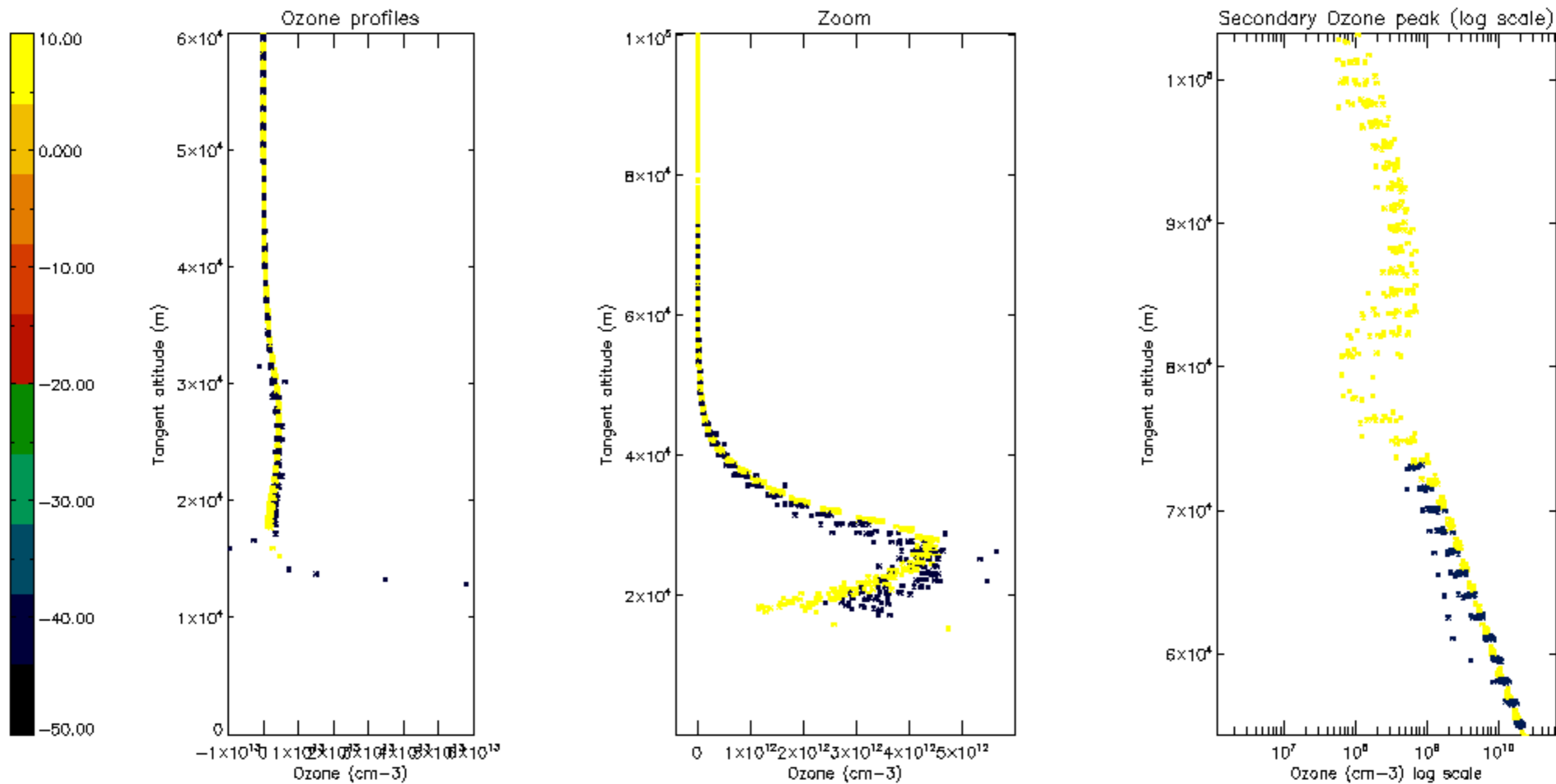
Percentage of star falling outside central band per profile

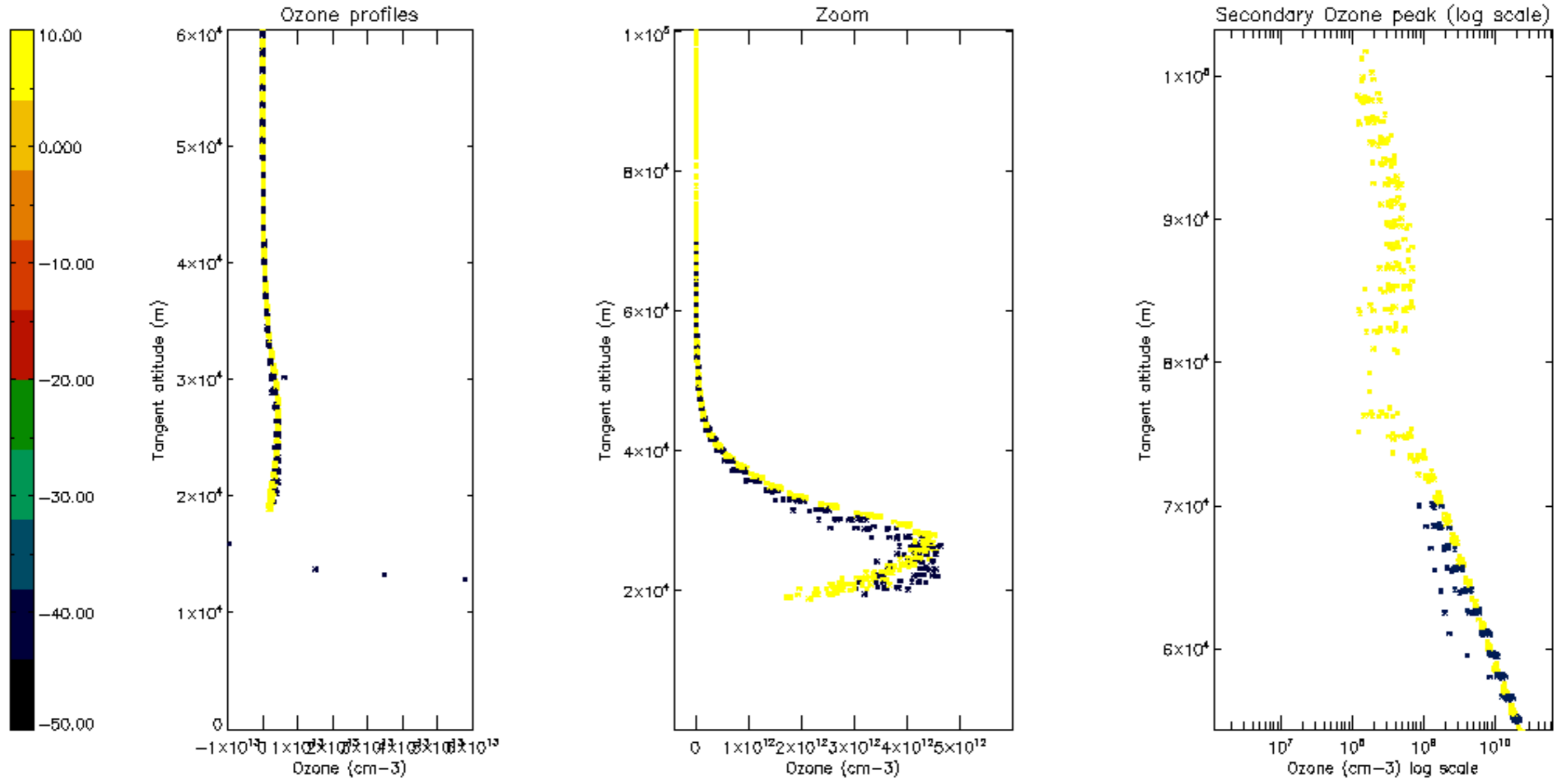


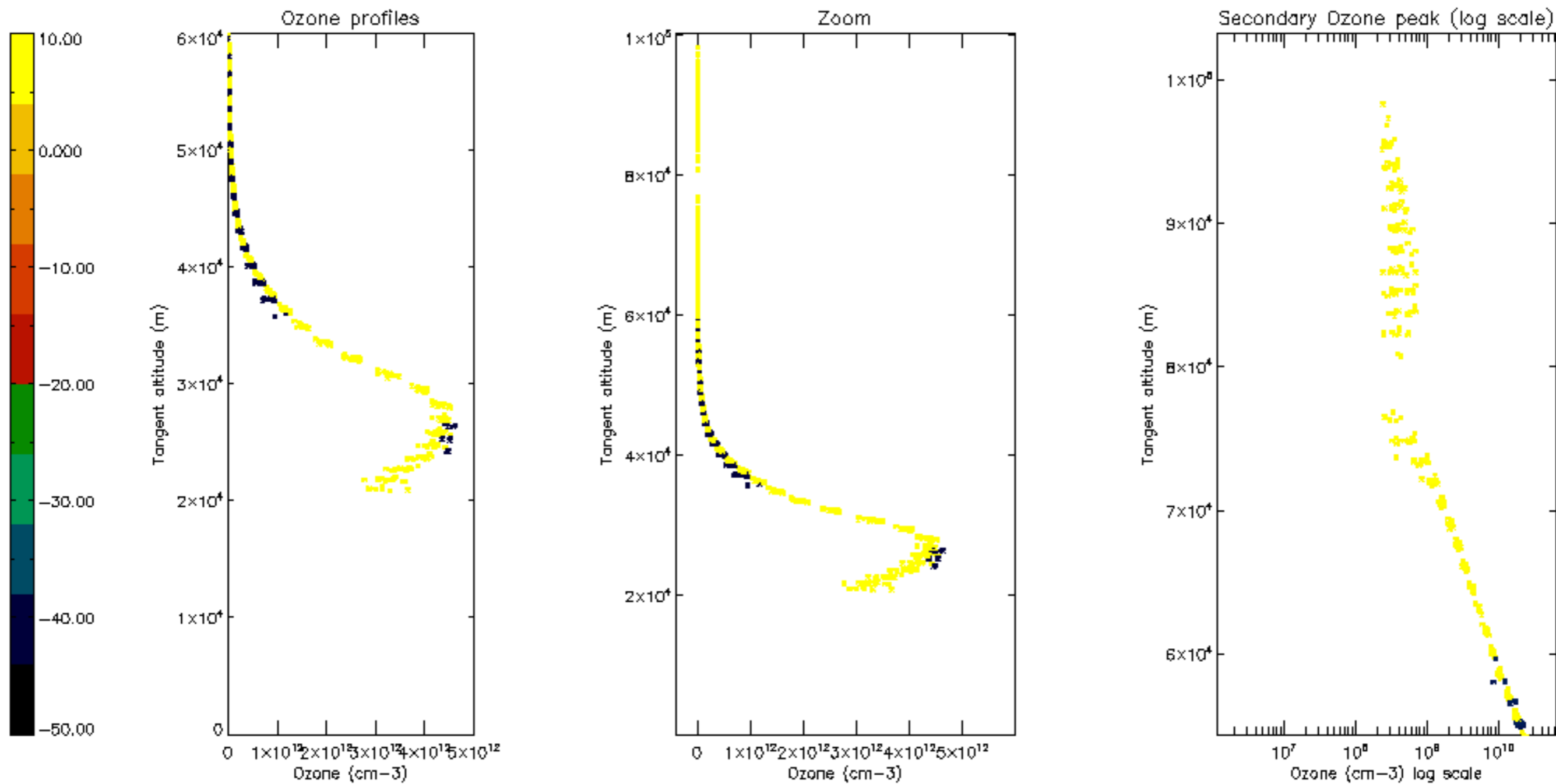
Percentage of saturation errors per profile



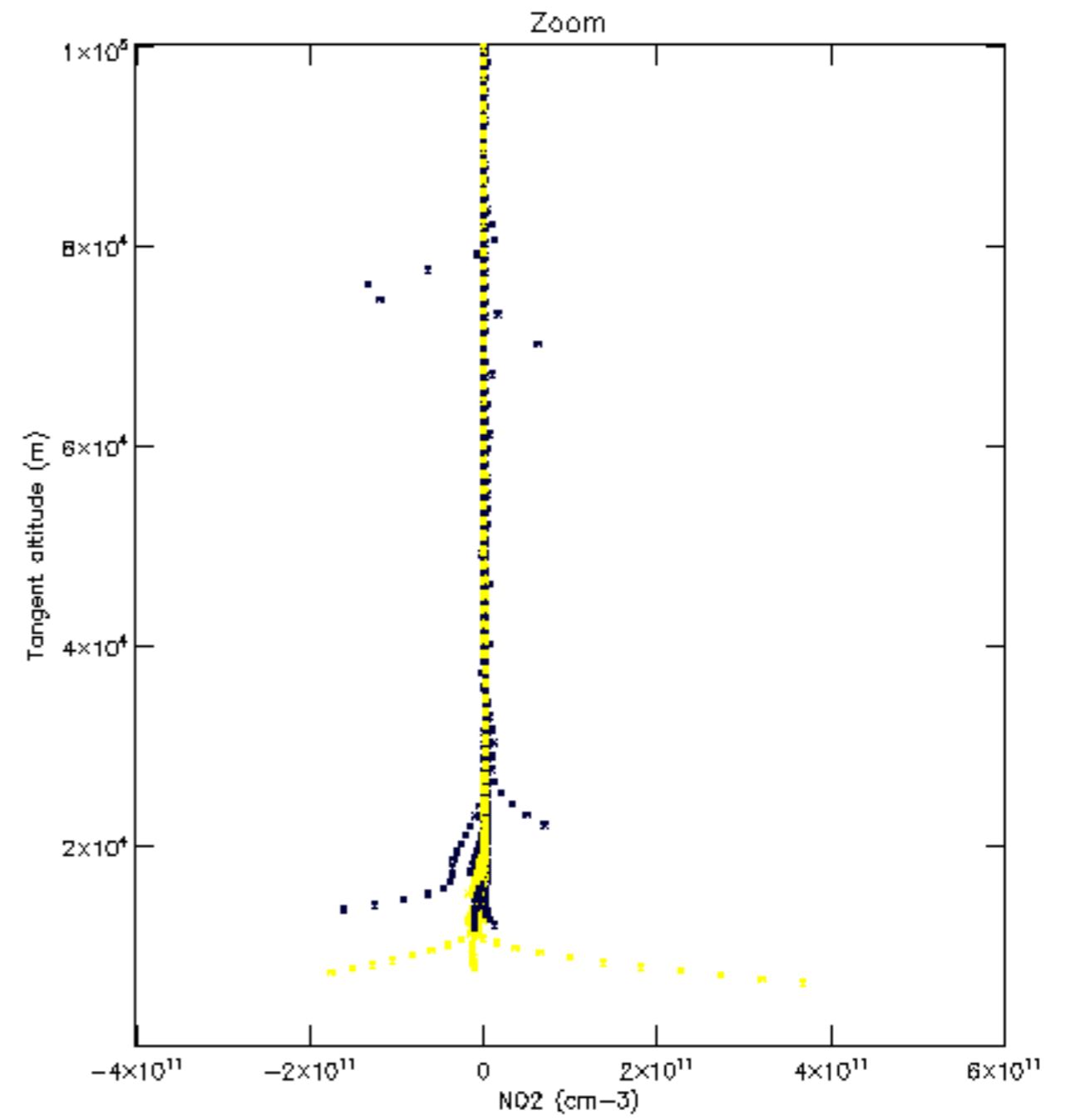
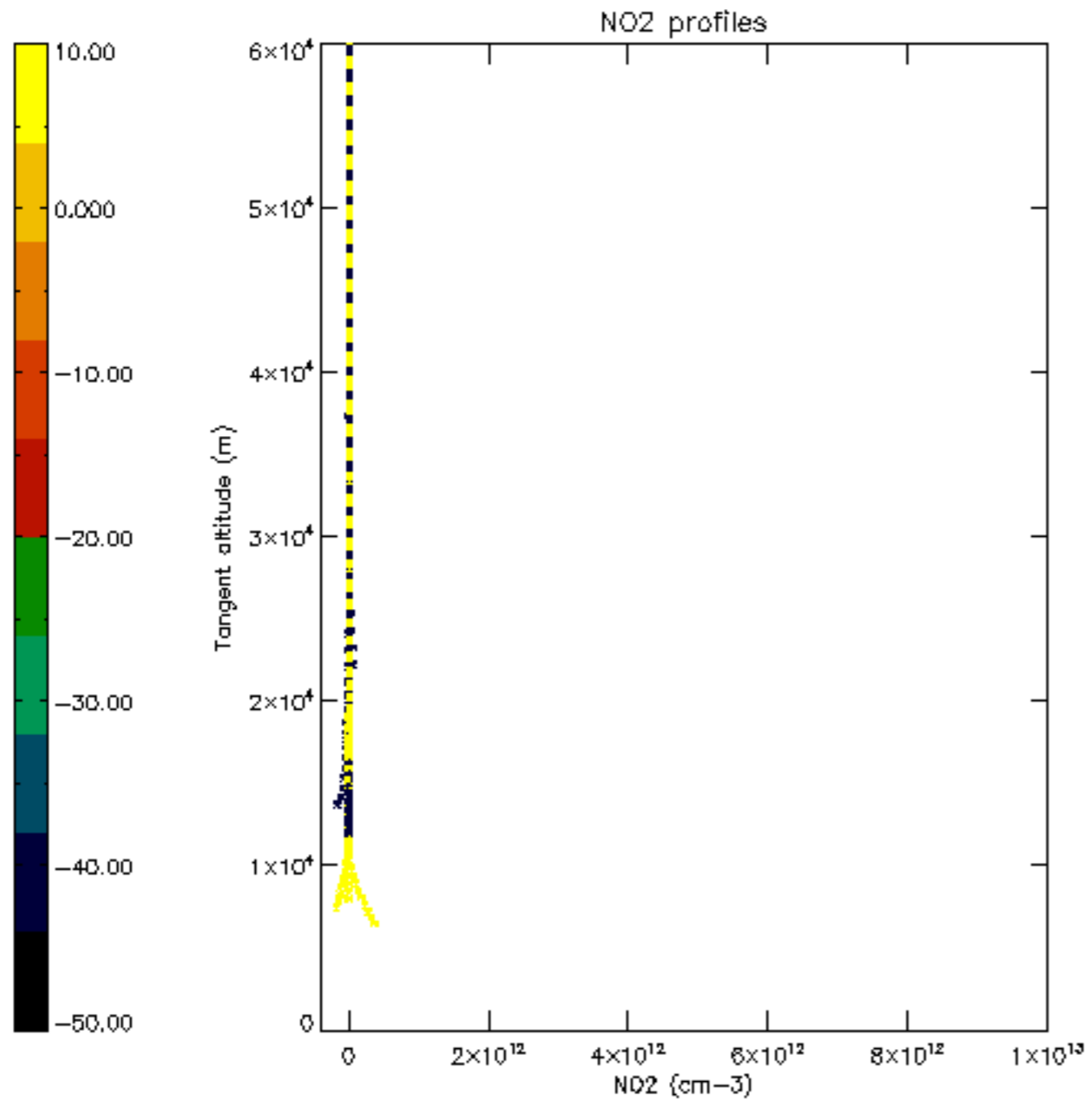


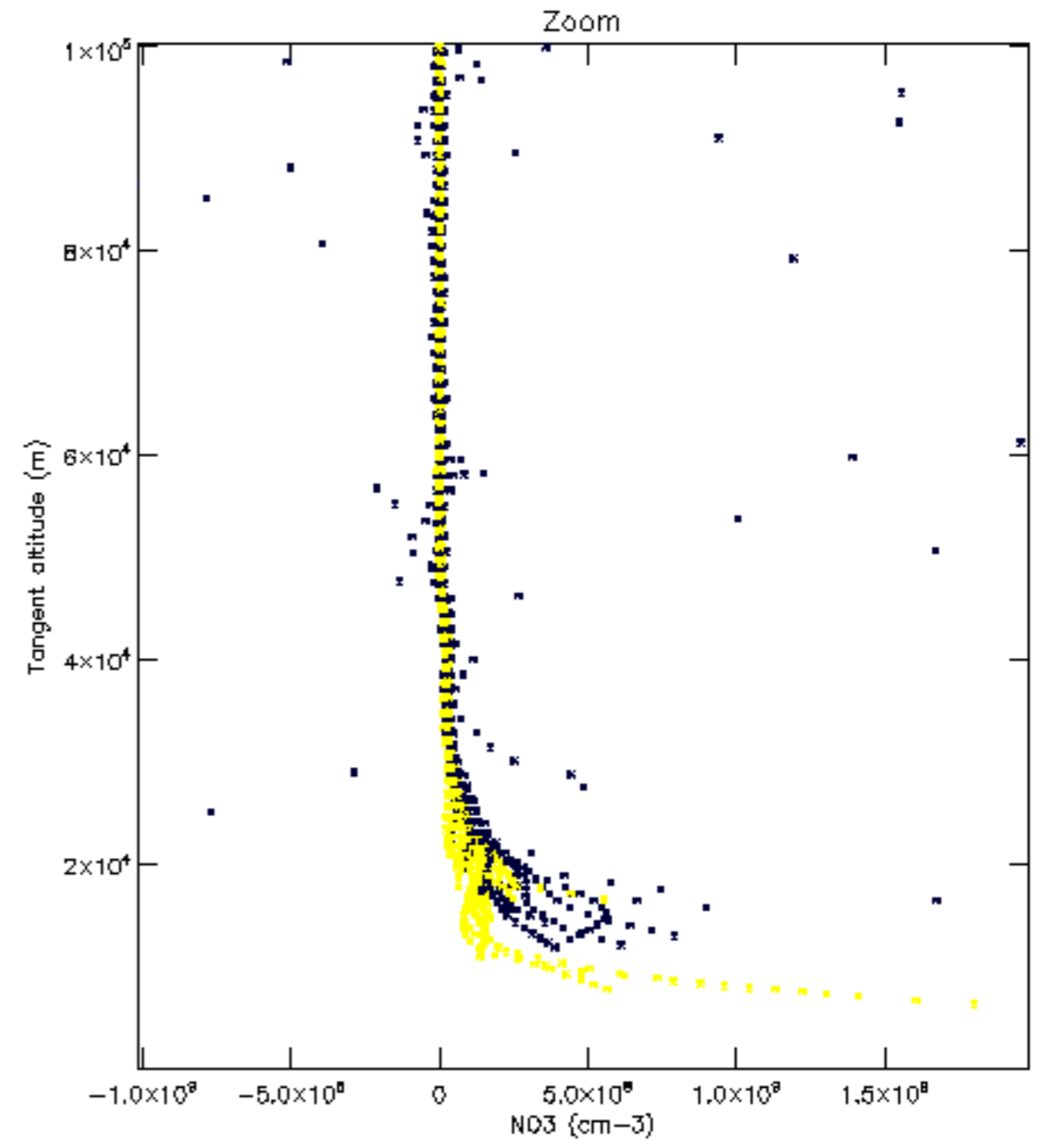
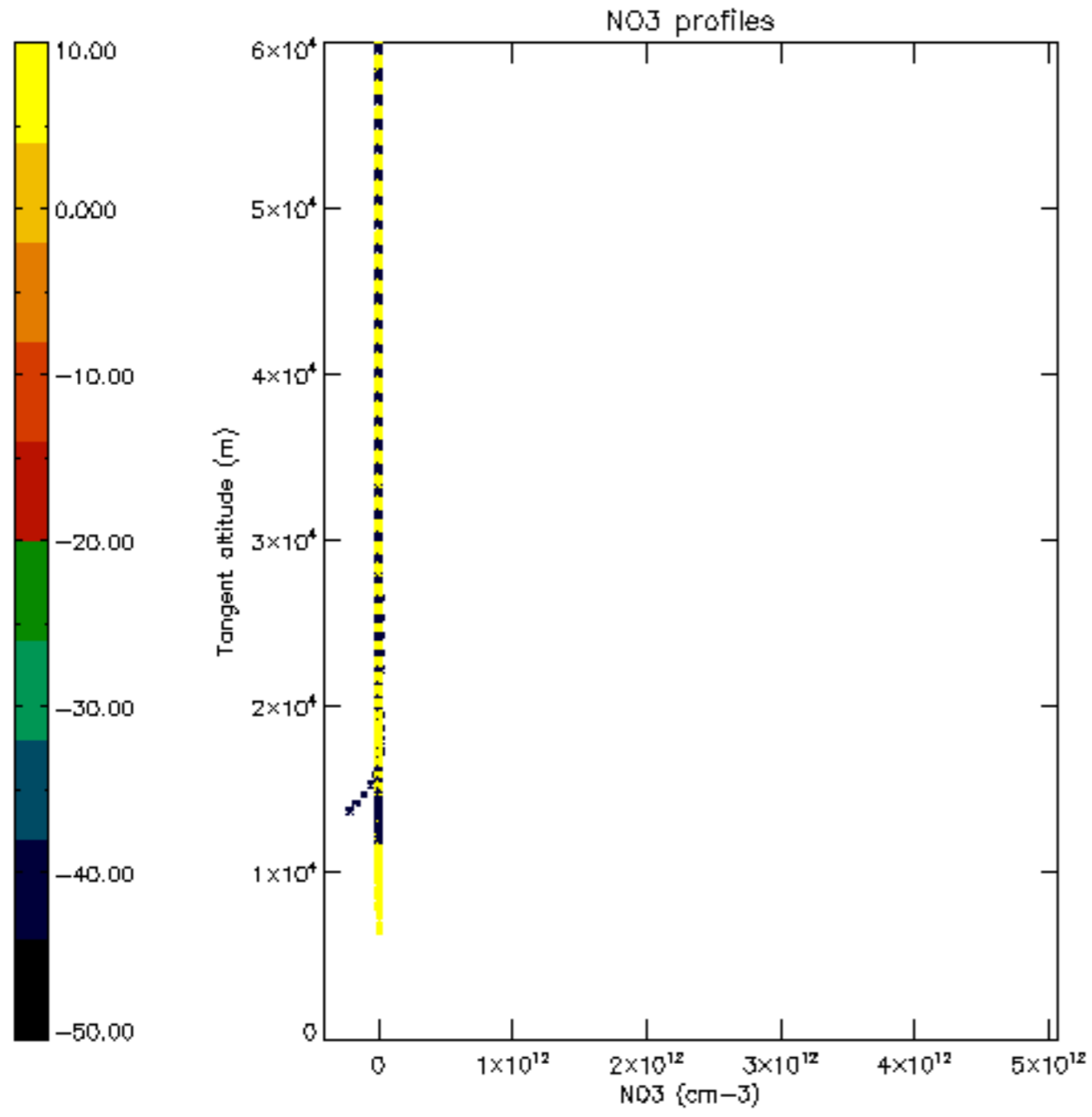


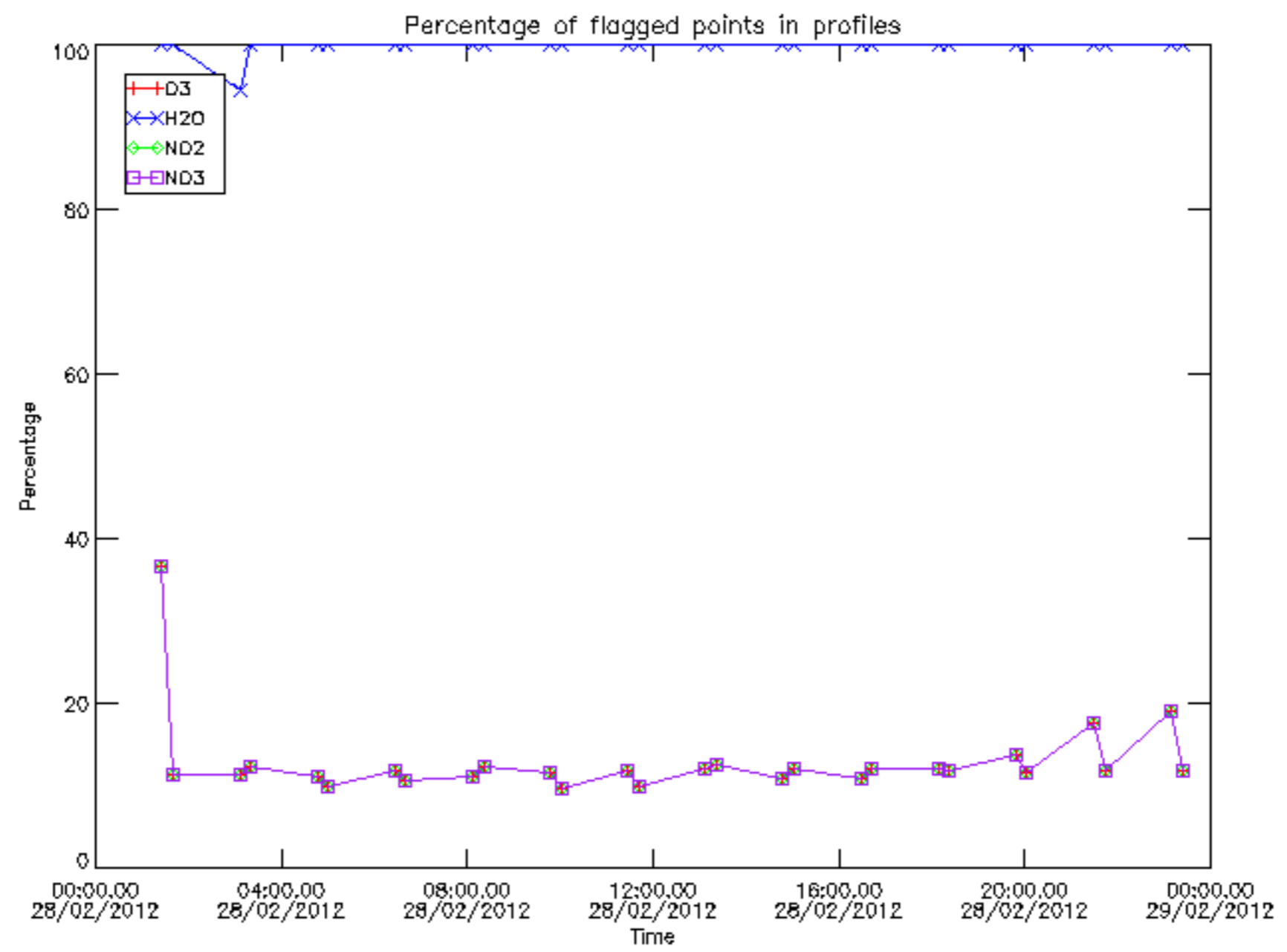




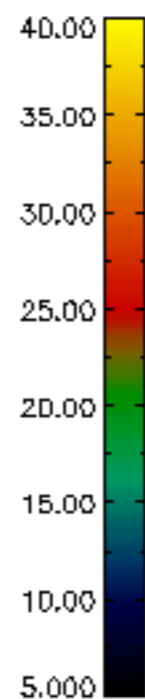
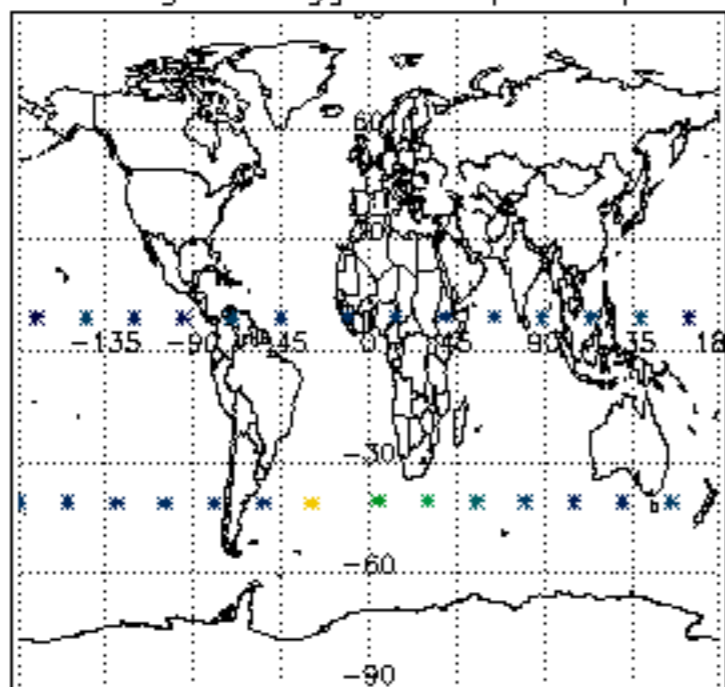




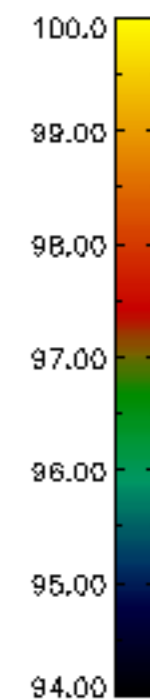
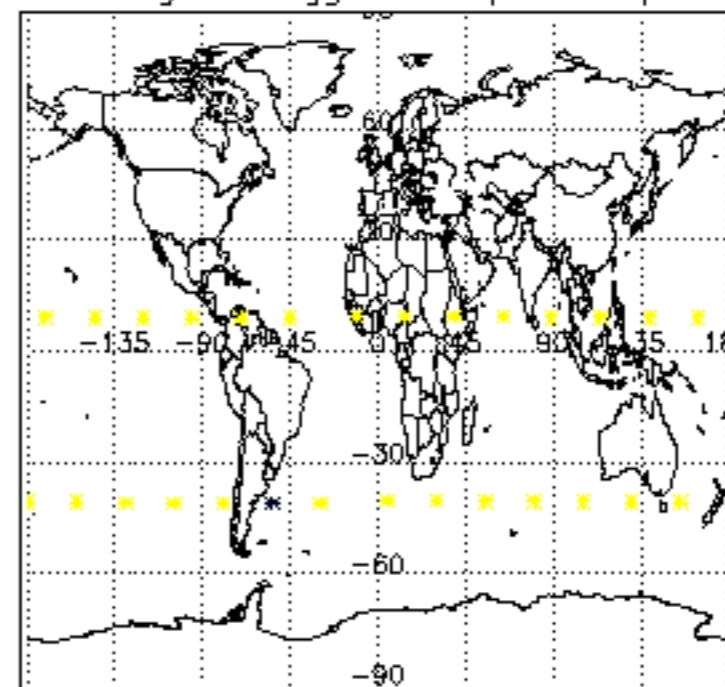




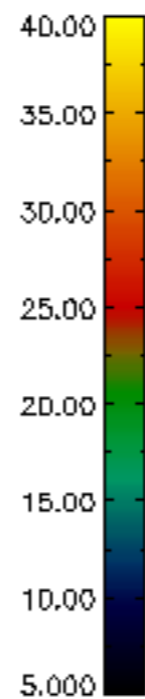
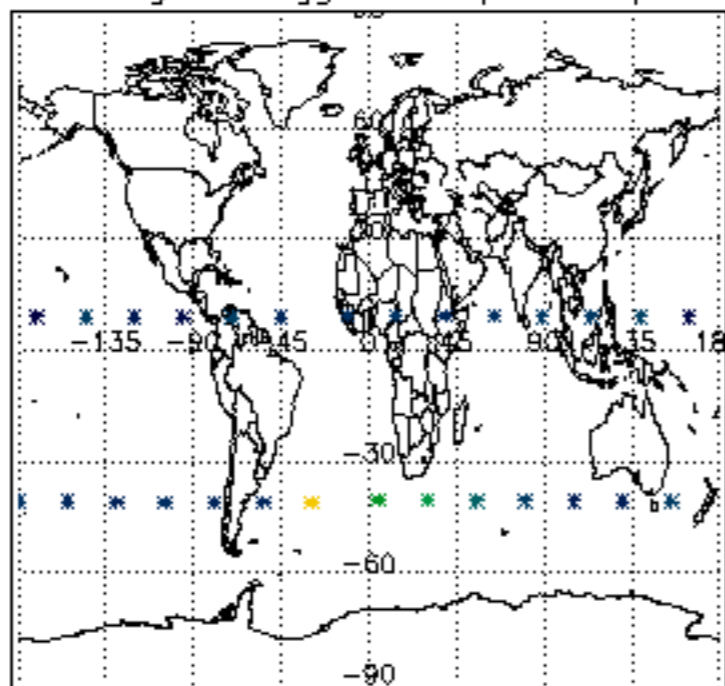
Percentage of flagged data per D3 profile



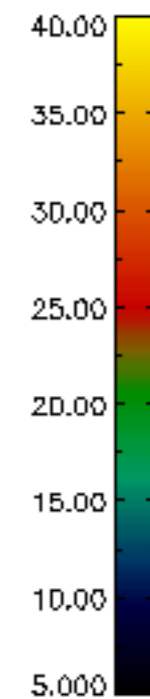
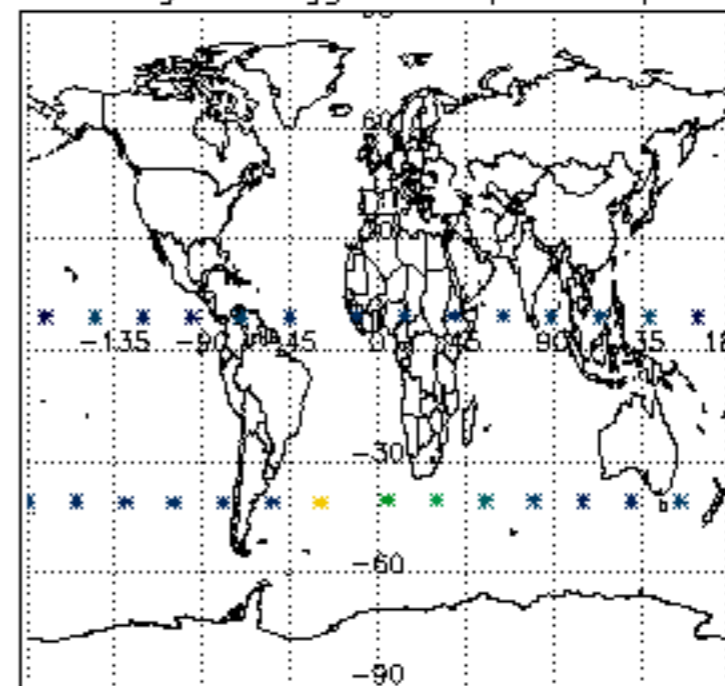
Percentage of flagged data per H2O profile

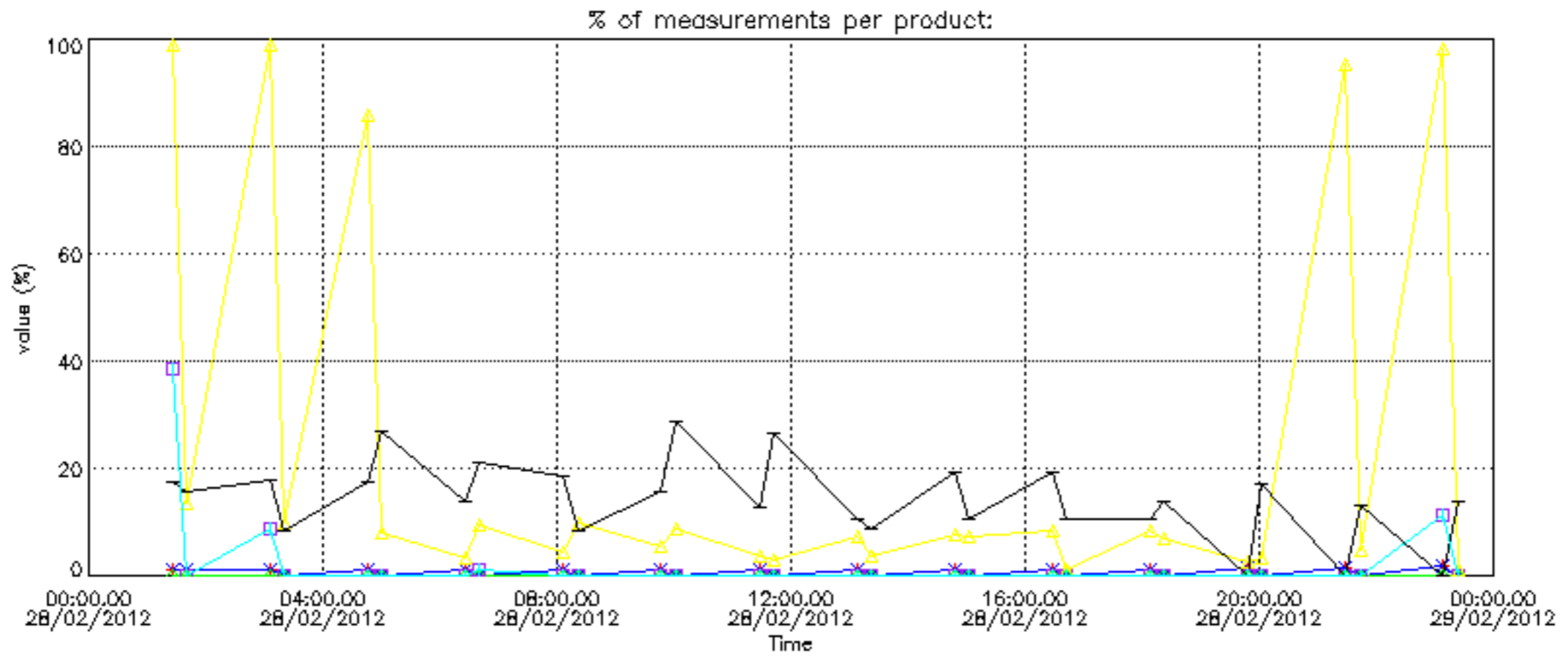


Percentage of flagged data per NO2 profile

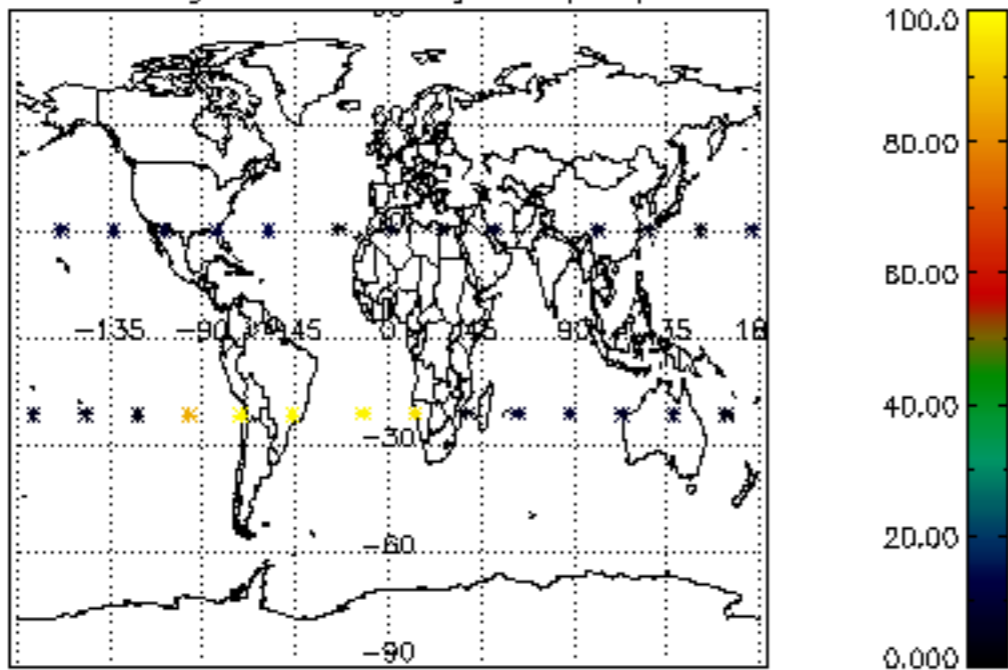


Percentage of flagged data per NO3 profile

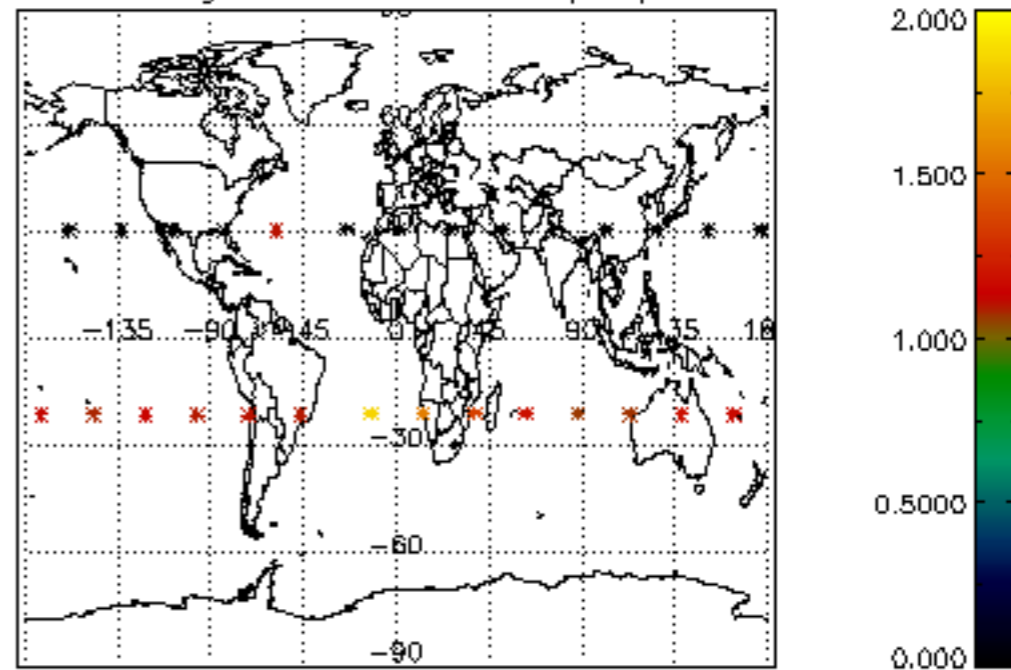




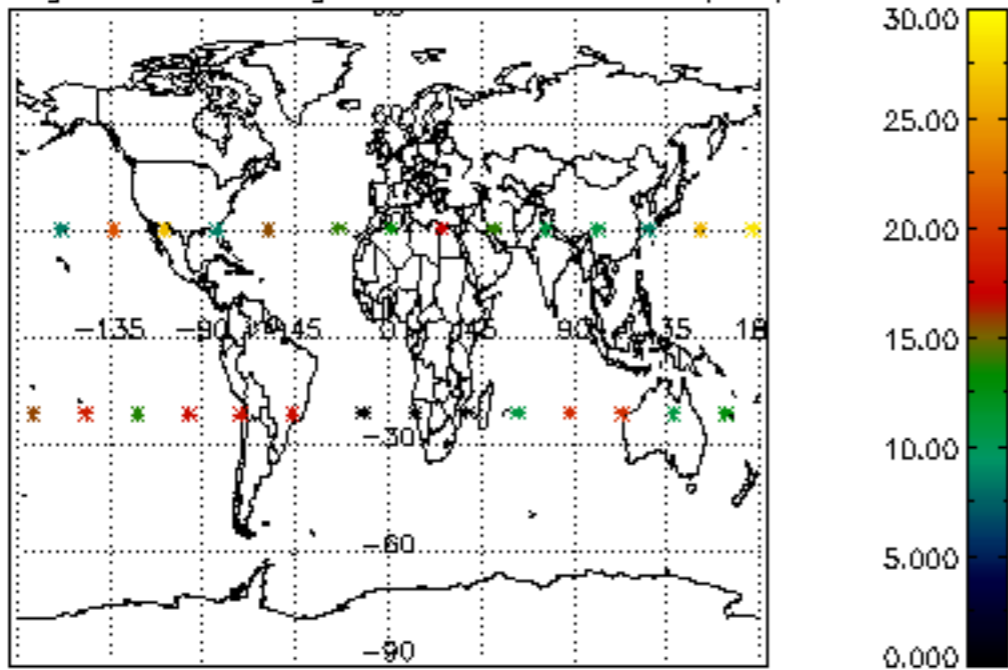
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

