

# 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	19APR2013 09:05:49
Data source version	GOMOS/6.01
Start time of products	08-02-2003 (08FEB2003 00:00:00)
Stop time of products	09-02-2003 (09FEB2003 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	334
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__2PRFIN20030208_000055_000000442013_00360_04923_5524.N1	08-FEB-2003 00:00:55	Dark	44.000	77	Eps Cen	2.3030	28000.	88	4923	No
2	GOM_NL__2PRFIN20030208_000245_000000432013_00360_04923_5525.N1	08-FEB-2003 00:02:45	Dark	42.500	20	Bet Cru	1.2530	30000.	85	4923	No
3	GOM_NL__2PRFIN20030208_000415_000000482013_00360_04923_5526.N1	08-FEB-2003 00:04:15	Dark	47.500	64	Gam Cen	2.2000	10600.	95	4923	No
4	GOM_NL__2PRFIN20030208_000611_000000392013_00360_04923_5527.N1	08-FEB-2003 00:06:11	Dark	39.000	29	Bet Car	1.6720	10200.	78	4923	No
5	GOM_NL__2PRFIN20030208_000840_000000442013_00360_04923_5528.N1	08-FEB-2003 00:08:40	Dark	43.500	71	lot Car	2.2460	7700.0	87	4923	No
6	GOM_NL__2PRFIN20030208_001022_000000422013_00360_04923_5529.N1	08-FEB-2003 00:10:22	Dark	41.500	46	Del Vel	1.9540	10600.	83	4923	No
7	GOM_NL__2PRFIN20030208_001249_000000422013_00360_04923_5530.N1	08-FEB-2003 00:12:49	Straylight	42.000	34	Gam2Vel	1.7930	23000.	84	4923	No
8	GOM_NL__2PRFIN20030208_001454_000000392013_00360_04923_5531.N1	08-FEB-2003 00:14:54	Straylight	38.500	70	Zet Pup	2.2460	39000.	77	4923	No
9	GOM_NL__2PRFIN20030208_001611_000000462013_00360_04923_5532.N1	08-FEB-2003 00:16:11	Straylight	45.500	117	Pi Pup	2.7060	3800.0	91	4923	No
10	GOM_NL__2PRFIN20030208_001833_000001522013_00360_04923_5533.N1	08-FEB-2003 00:18:33	Straylight	151.50	100	4Gam Crv	2.5800	13100.	303	4923	No
11	GOM_NL__2PRFIN20030208_002326_000000532013_00360_04923_5534.N1	08-FEB-2003 00:23:26	Straylight	53.000	48	30Alp Hya	1.9770	4100.0	106	4923	No
12	GOM_NL__2PRFIN20030208_002745_000000522013_00360_04923_5535.N1	08-FEB-2003 00:27:45	Twilight	52.000	8	10Alp CMi	0.40000	6500.0	104	4923	No
13	GOM_NL__2PRFIN20030208_003126_000000382013_00360_04923_5536.N1	08-FEB-2003 00:31:26	Bright	38.000	44	24Gam Gem	1.9280	11000.	76	4923	No
14	GOM_NL__2PRFIN20030208_003321_000000392013_00360_04923_5537.N1	08-FEB-2003 00:33:21	Bright	38.500	151	13Mu Gem	2.8900	3000.0	77	4923	No
15	GOM_NL__2PRFIN20030208_003517_000000392013_00360_04923_5538.N1	08-FEB-2003 00:35:17	Bright	39.000	24	66Alp Gem	1.5800	10200.	78	4923	No
16	GOM_NL__2PRFIN20030208_003743_000000382013_00360_04923_5539.N1	08-FEB-2003 00:37:43	Bright	37.500	107	37The Aur	2.6490	11000.	75	4923	No
17	GOM_NL__2PRFIN20030208_003944_000000362013_00360_04923_5540.N1	08-FEB-2003 00:39:44	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	4923	No
18	GOM_NL__2PRFIN20030208_004216_000001202013_00360_04923_5541.N1	08-FEB-2003 00:42:16	Bright	119.50	96	68Del Leo	2.5600	9300.0	239	4923	No
19	GOM_NL__2PRFIN20030208_004723_000000472013_00360_04923_5542.N1	08-FEB-2003 00:47:23	Bright	46.500	82	48Bet UMa	2.3650	10600.	93	4923	No
20	GOM_NL__2PRFIN20030208_005136_000000372013_00360_04923_5543.N1	08-FEB-2003 00:51:36	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	4923	No
21	GOM_NL__2PRFIN20030208_005415_000000422013_00360_04923_5544.N1	08-FEB-2003 00:54:15	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	4923	No
22	GOM_NL__2PRFIN20030208_005808_000000382013_00360_04923_5545.N1	08-FEB-2003 00:58:08	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	4923	No
23	GOM_NL__2PRFIN20030208_010231_000000412013_00360_04923_5546.N1	08-FEB-2003 01:02:31	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	4923	No
24	GOM_NL__2PRFIN20030208_010403_000000362013_00360_04923_5547.N1	08-FEB-2003 01:04:03	Bright	35.500	144	18Del Cyg	2.8600	11000.	71	4923	No
25	GOM_NL__2PRFIN20030208_010624_000000372013_00360_04923_5548.N1	08-FEB-2003 01:06:24	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	4923	No
26	GOM_NL__2PRFIN20030208_010928_000000492013_00360_04923_5549.N1	08-FEB-2003 01:09:28	Bright	49.000	133	40Zet Her	2.8070	6000.0	98	4923	No
27	GOM_NL__2PRFIN20030208_011241_000000782013_00360_04923_5550.N1	08-FEB-2003 01:12:41	Bright	77.500	67	5Alp CrB	2.2210	11000.	155	4923	No
28	GOM_NL__2PRFIN20030208_011500_000001772013_00360_04923_5551.N1	08-FEB-2003 01:15:00	Twilight	176.50	83		2.3780	11000.	353	4923	No
29	GOM_NL__2PRFIN20030208_012357_000000442013_00360_04923_5552.N1	08-FEB-2003 01:23:57	Twilight	44.000	86	35Eta Oph	2.4300	10200.	88	4923	No
30	GOM_NL__2PRFIN20030208_012545_000000432013_00360_04923_5553.N1	08-FEB-2003 01:25:45	Twilight	42.500	116	19Del Sgr	2.7000	4100.0	85	4923	No
31	GOM_NL__2PRFIN20030208_012656_000000442013_00360_04923_5554.N1	08-FEB-2003 01:26:56	Dark	43.500	38	20Eps Sgr	1.8360	11000.	87	4923	No
32	GOM_NL__2PRFIN20030208_012835_000000552013_00360_04923_5555.N1	08-FEB-2003 01:28:35	Dark	54.500	16	21Alp Sco	1.0200	3000.0	109	4923	No
33	GOM_NL__2PRFIN20030208_013020_000000502013_00360_04923_5556.N1	08-FEB-2003 01:30:20	Dark	50.000	158	6Pi Sco	2.9060	28000.	100	4923	No
34	GOM_NL__2PRFIN20030208_013327_000000452013_00360_04923_5557.N1	08-FEB-2003 01:33:27	Dark	45.000	141	Bet Ara	2.8400	4600.0	90	4923	No
35	GOM_NL__2PRFIN20030208_013714_000000392013_00361_04924_5292.N1	08-FEB-2003 01:37:14	Dark	38.500	43	Alp TrA	1.9100	4250.0	77	4924	No
36	GOM_NL__2PRFIN20030208_014131_000000452013_00361_04924_5293.N1	08-FEB-2003 01:41:31	Dark	45.000	77	Eps Cen	2.3030	28000.	90	4924	No
37	GOM_NL__2PRFIN20030208_014321_000000432013_00361_04924_5294.N1	08-FEB-2003 01:43:21	Dark	42.500	20	Bet Cru	1.2530	30000.	85	4924	No
38	GOM_NL__2PRFIN20030208_014451_000000492013_00361_04924_5295.N1	08-FEB-2003 01:44:51	Dark	49.000	64	Gam Cen	2.2000	10600.	98	4924	No
39	GOM_NL__2PRFIN20030208_014647_000000392013_00361_04924_5296.N1	08-FEB-2003 01:46:47	Dark	38.500	29	Bet Car	1.6720	10200.	77	4924	No
40	GOM_NL__2PRFIN20030208_014916_000000432013_00361_04924_5297.N1	08-FEB-2003 01:49:16	Dark	43.000	71	lot Car	2.2460	7700.0	86	4924	No
41	GOM_NL__2PRFIN20030208_015058_000000412013_00361_04924_5298.N1	08-FEB-2003 01:50:58	Dark	40.500	46	Del Vel	1.9540	10600.	81	4924	No
42	GOM_NL__2PRFIN20030208_015325_000000422013_00361_04924_5299.N1	08-FEB-2003 01:53:25	Straylight	42.000	34	Gam2Vel	1.7930	23000.	84	4924	No







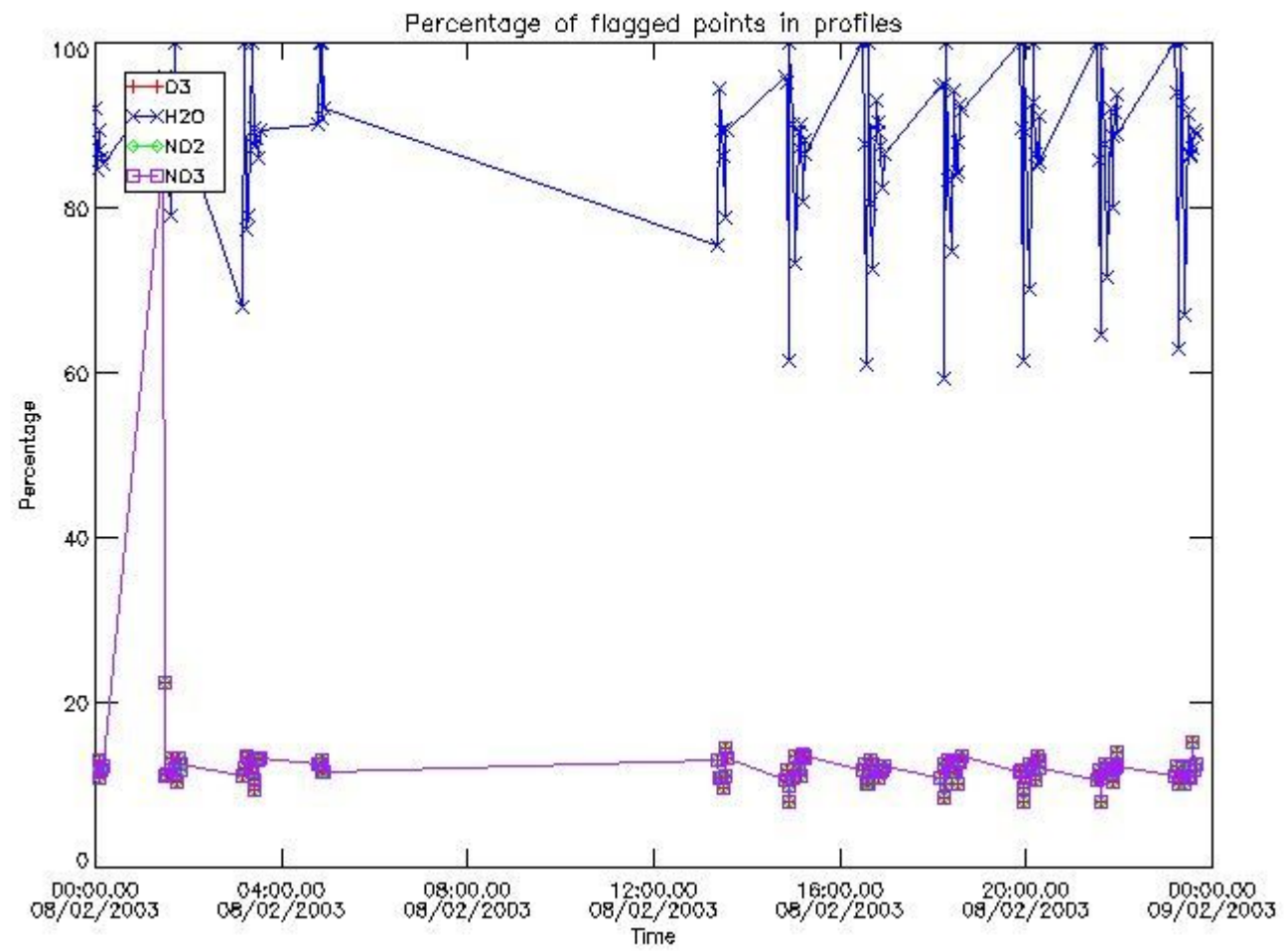




### 3. Quality information per product

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.

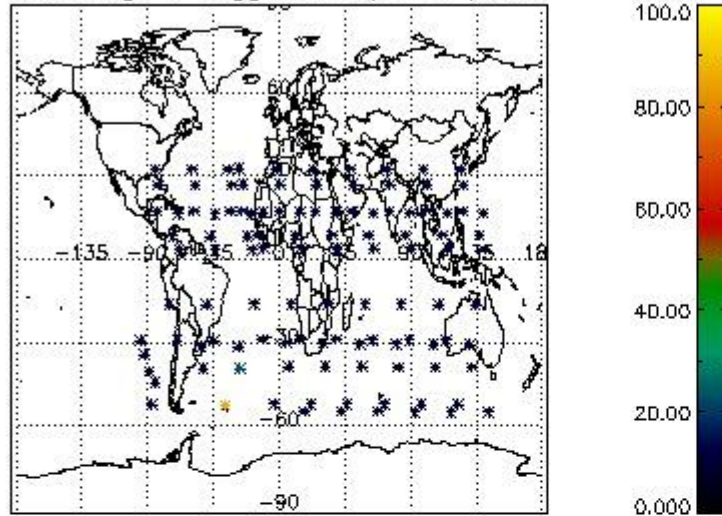
#### 3.1 Plot quality information per product (time dependant)



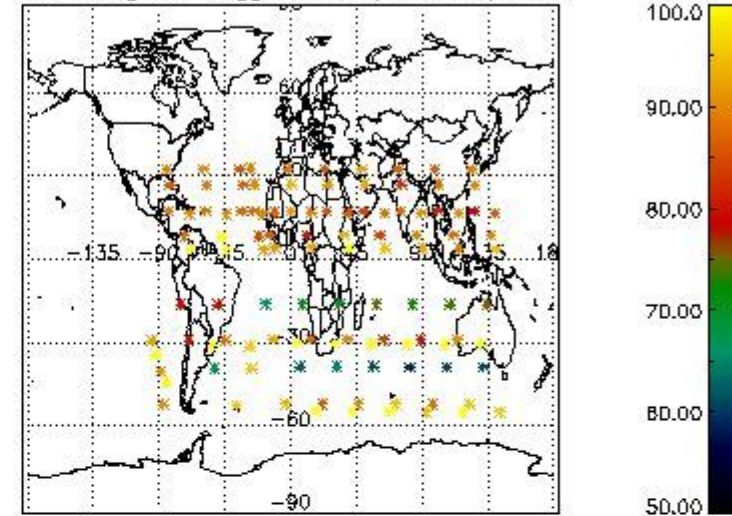
#### 3.2 Plot quality information per product (world map)



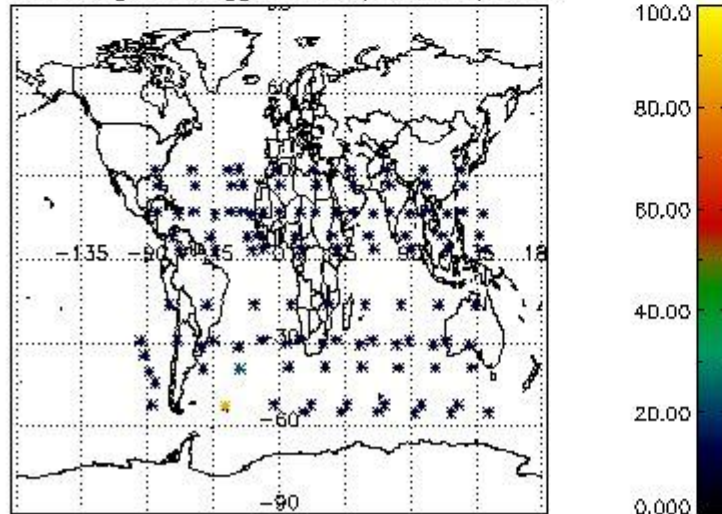
Percentage of flagged data per O3 profile



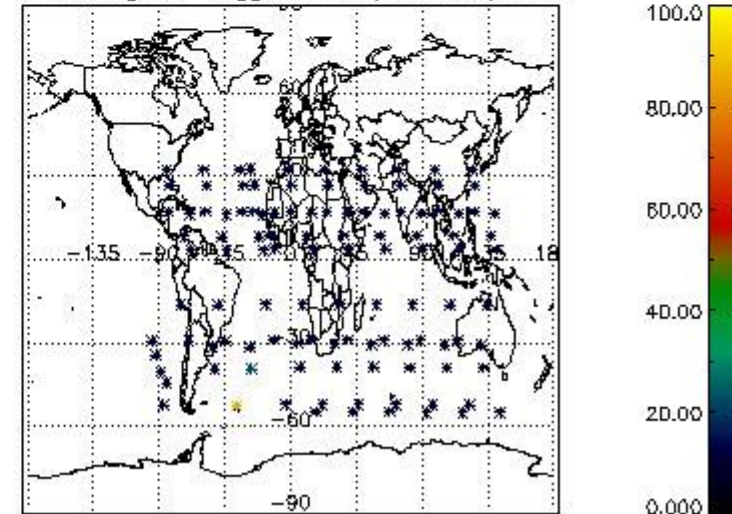
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

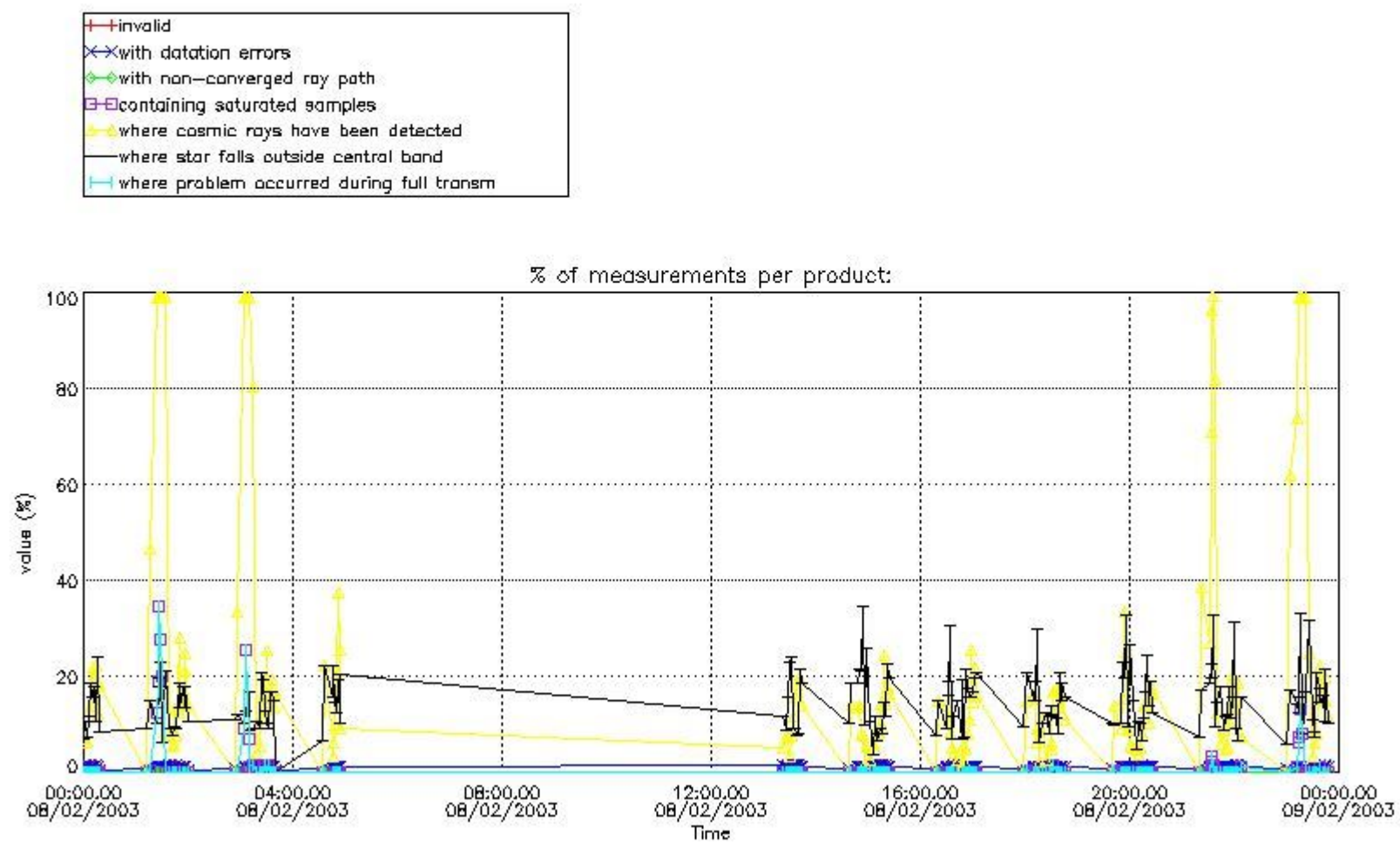


#### 4. Level 1 quality information per product

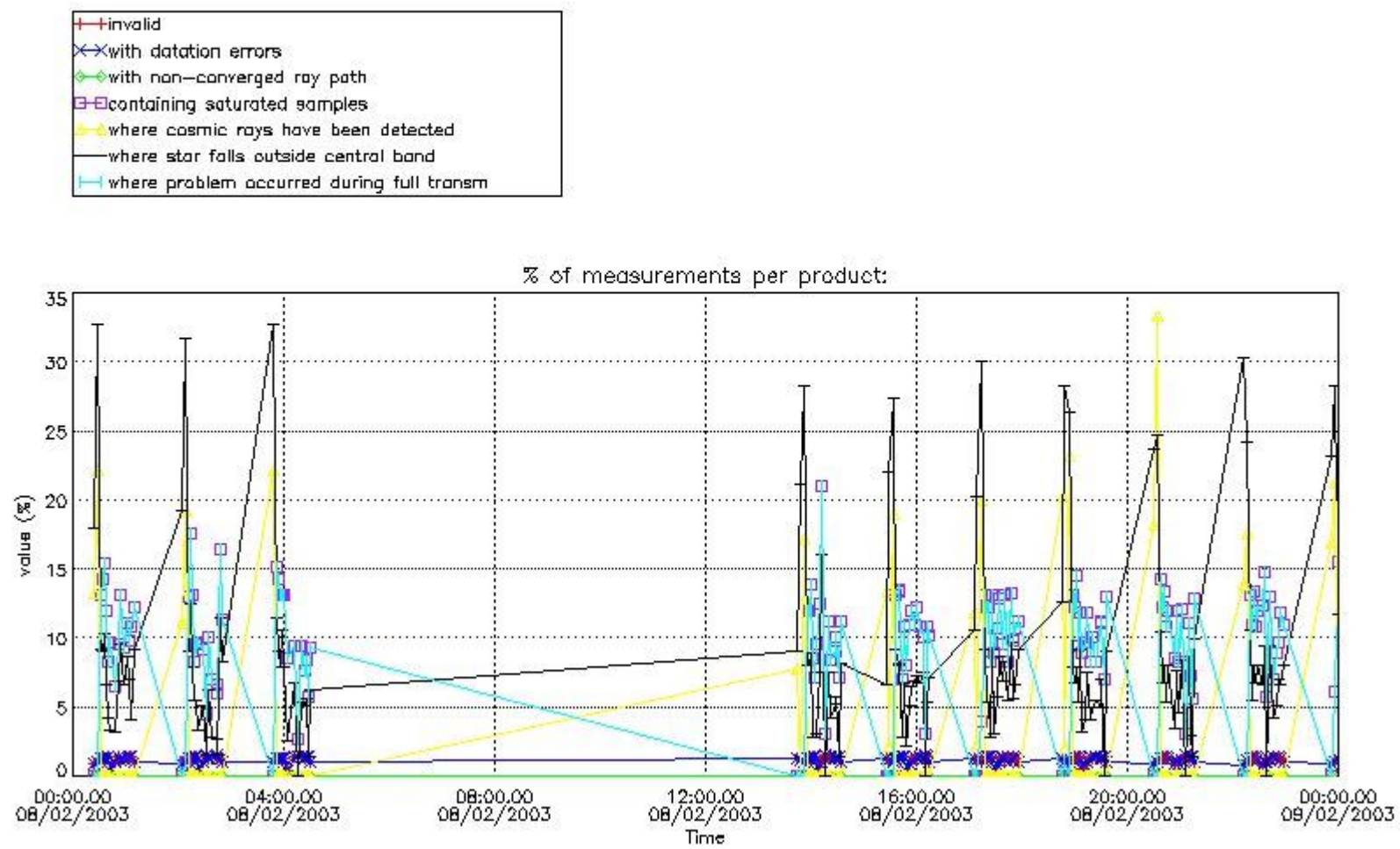
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



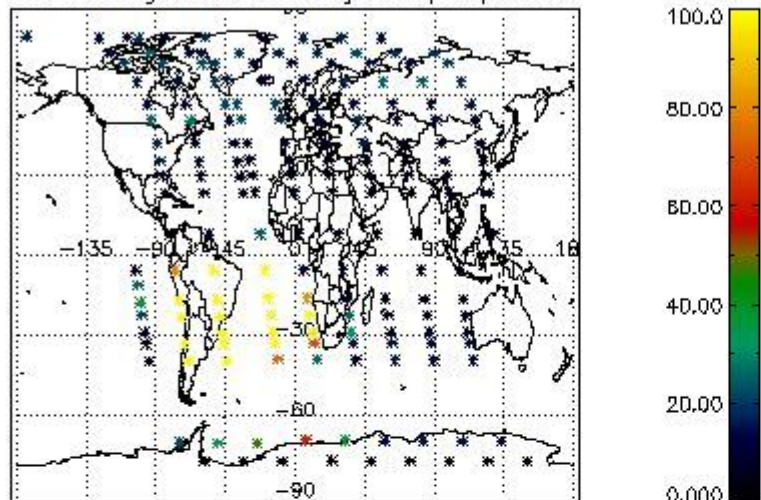
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



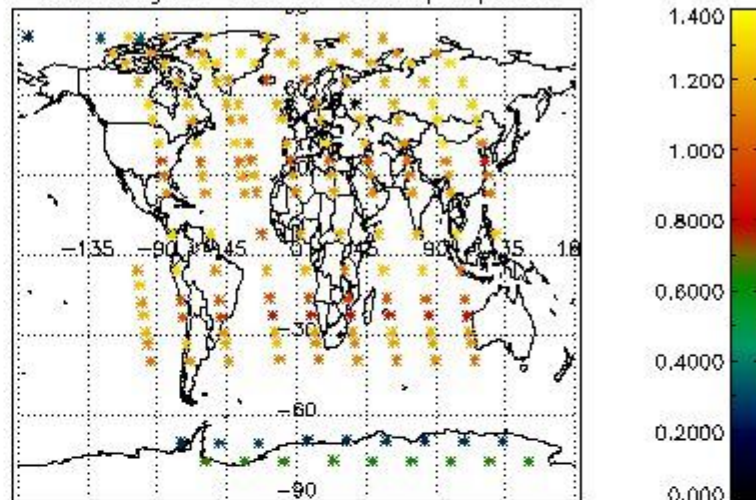
4.2 Plot quality information per product coming from level 1b processing (world map)

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

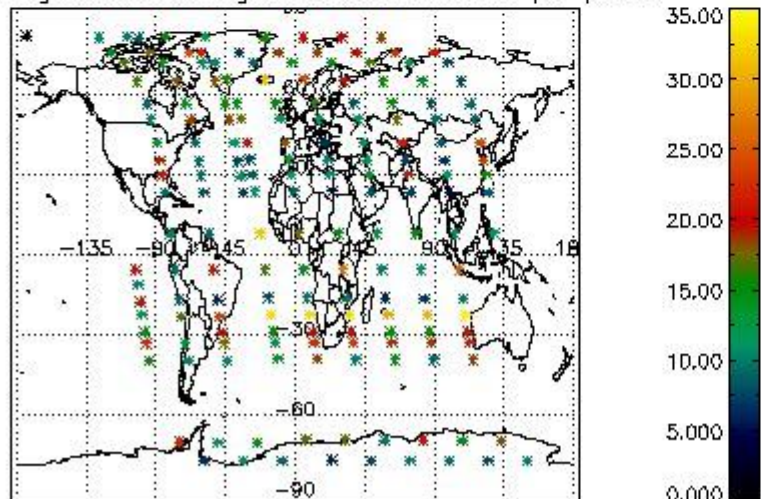
Percentage of cosmic ray hits per profile



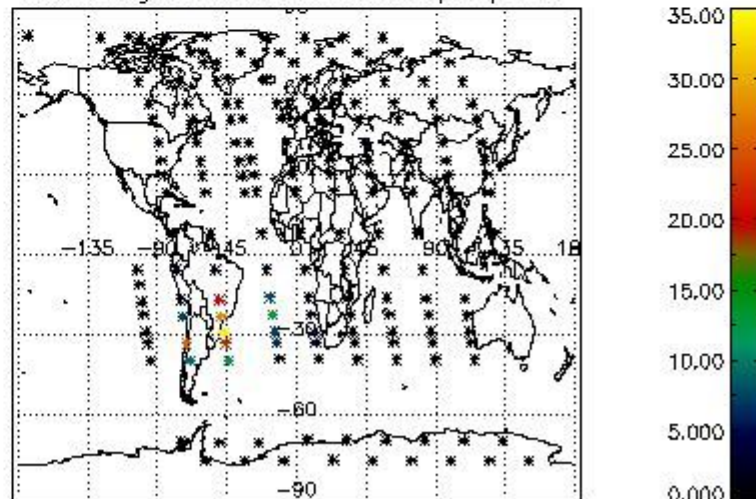
Percentage of datation errors per profile



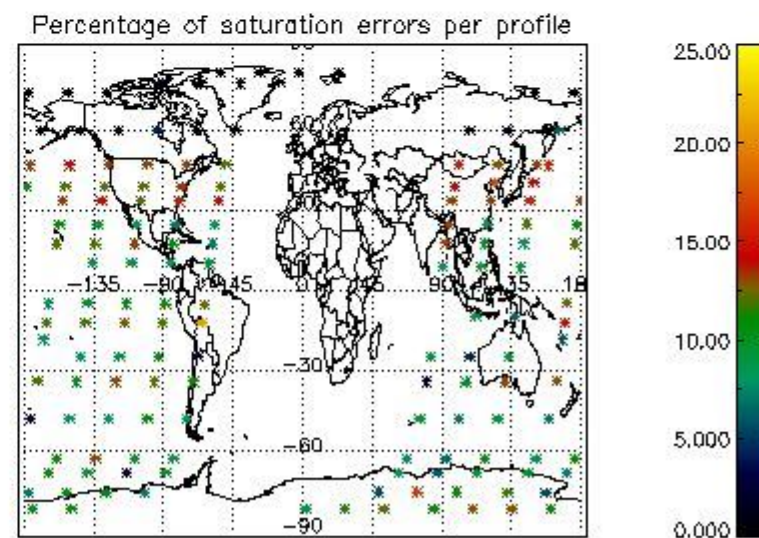
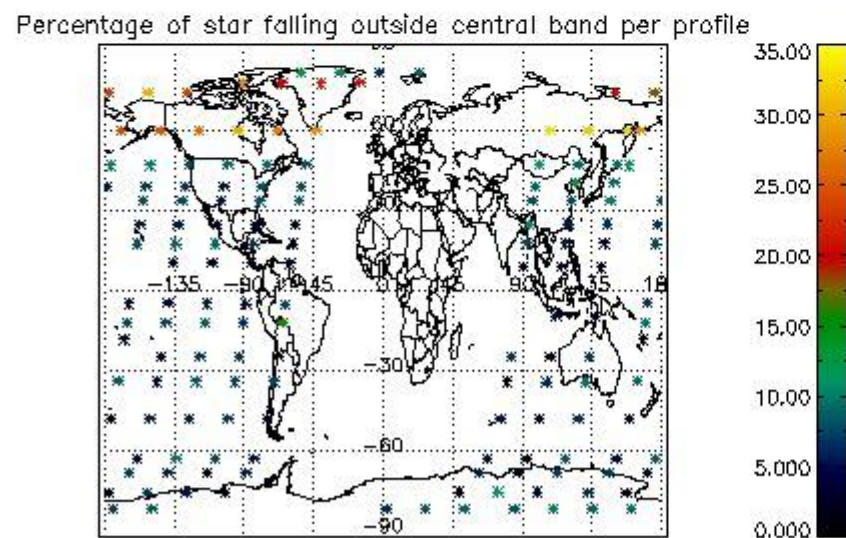
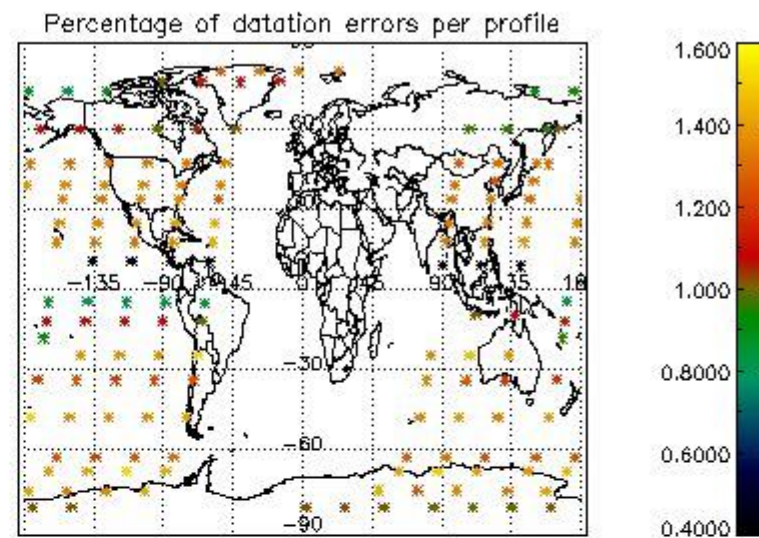
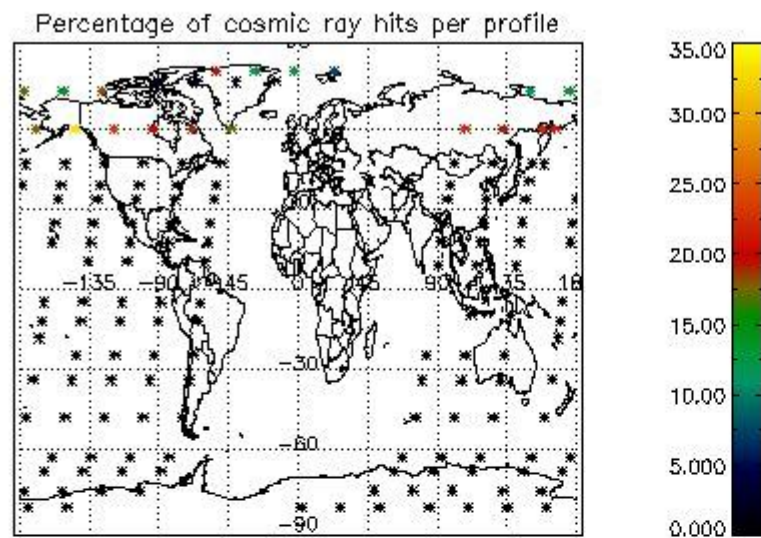
Percentage of star falling outside central band per profile



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

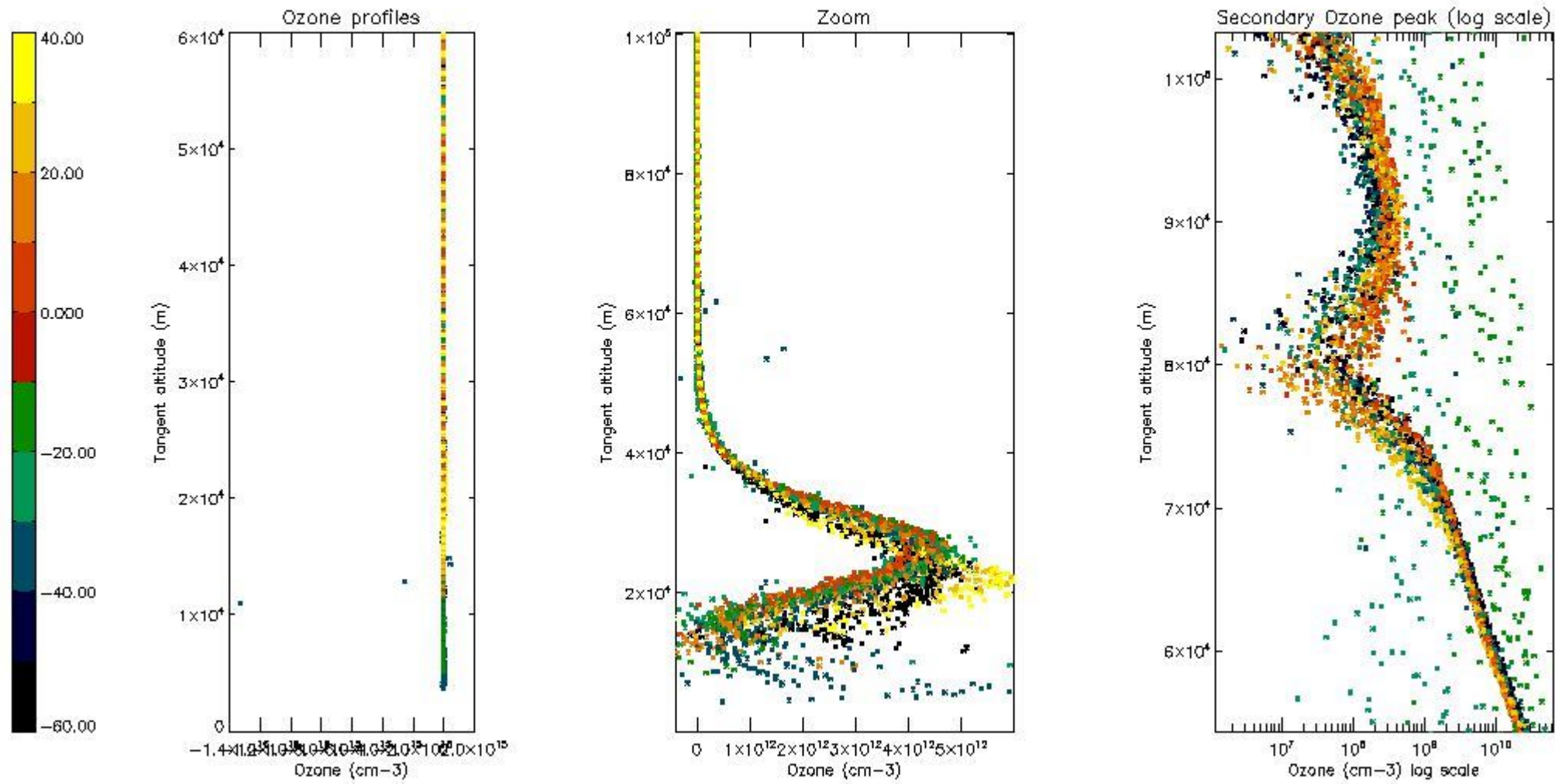
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	29
STD < 20	17

STD < 10	14
STD < 5	10

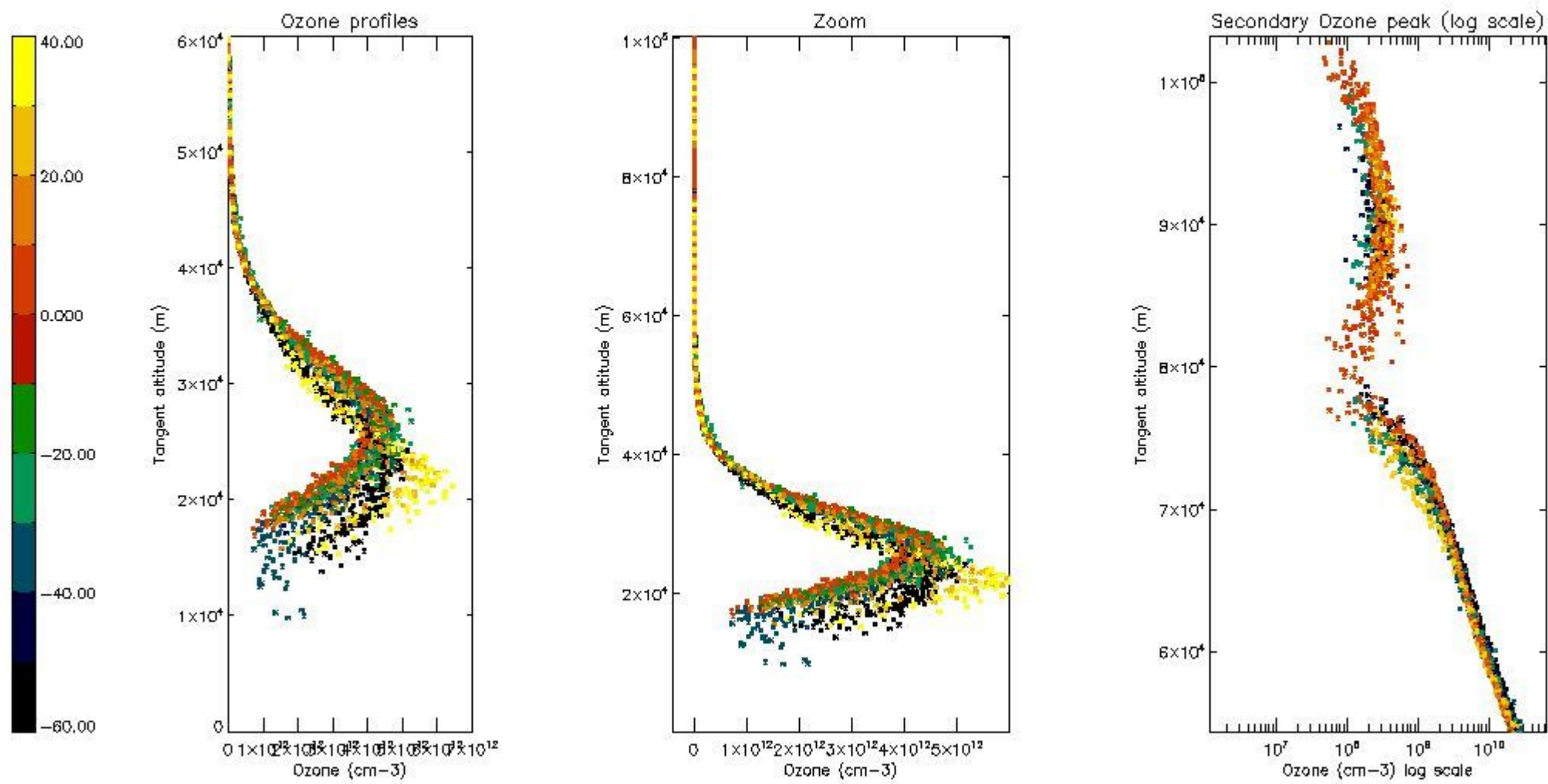
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



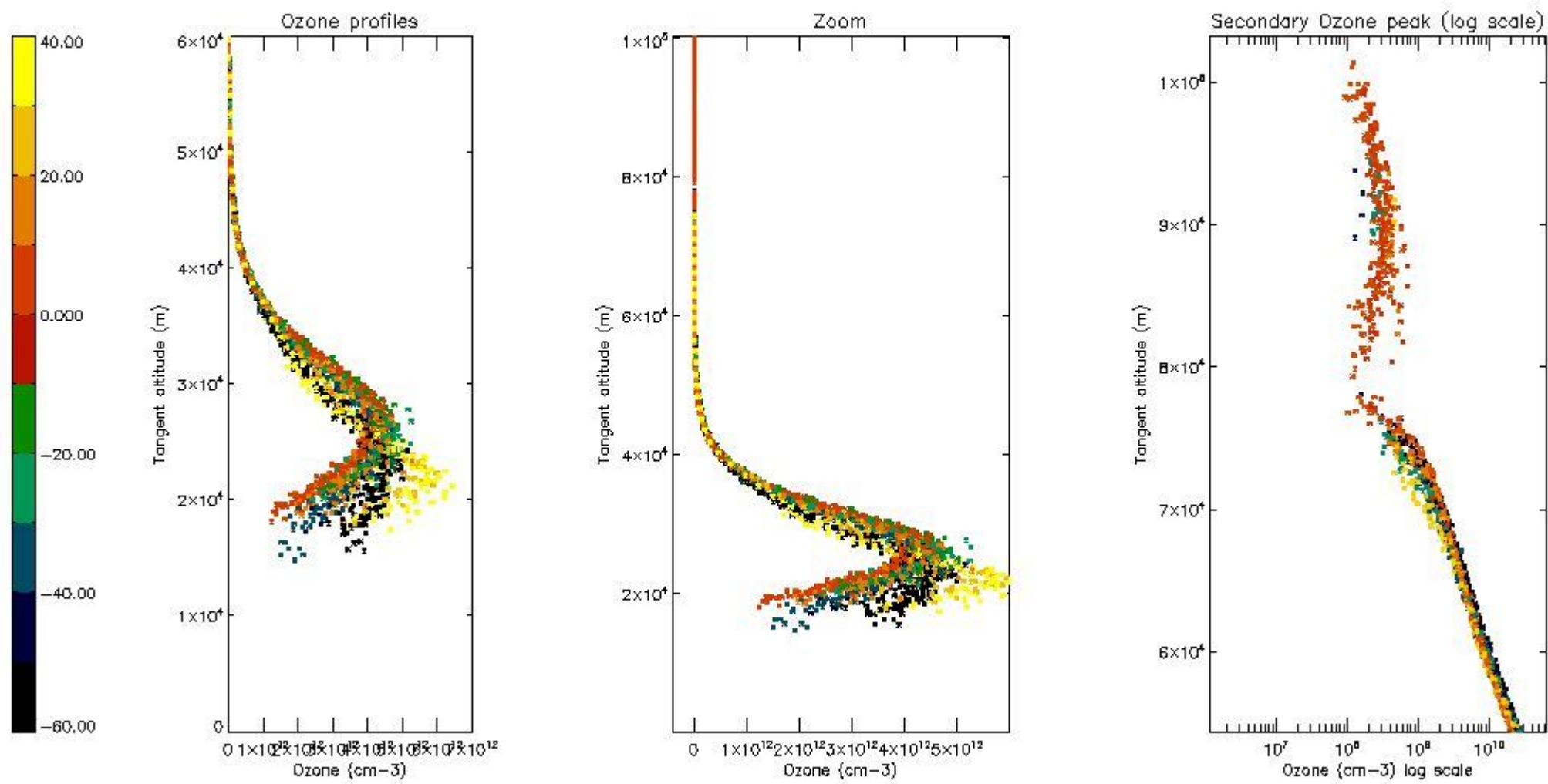
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

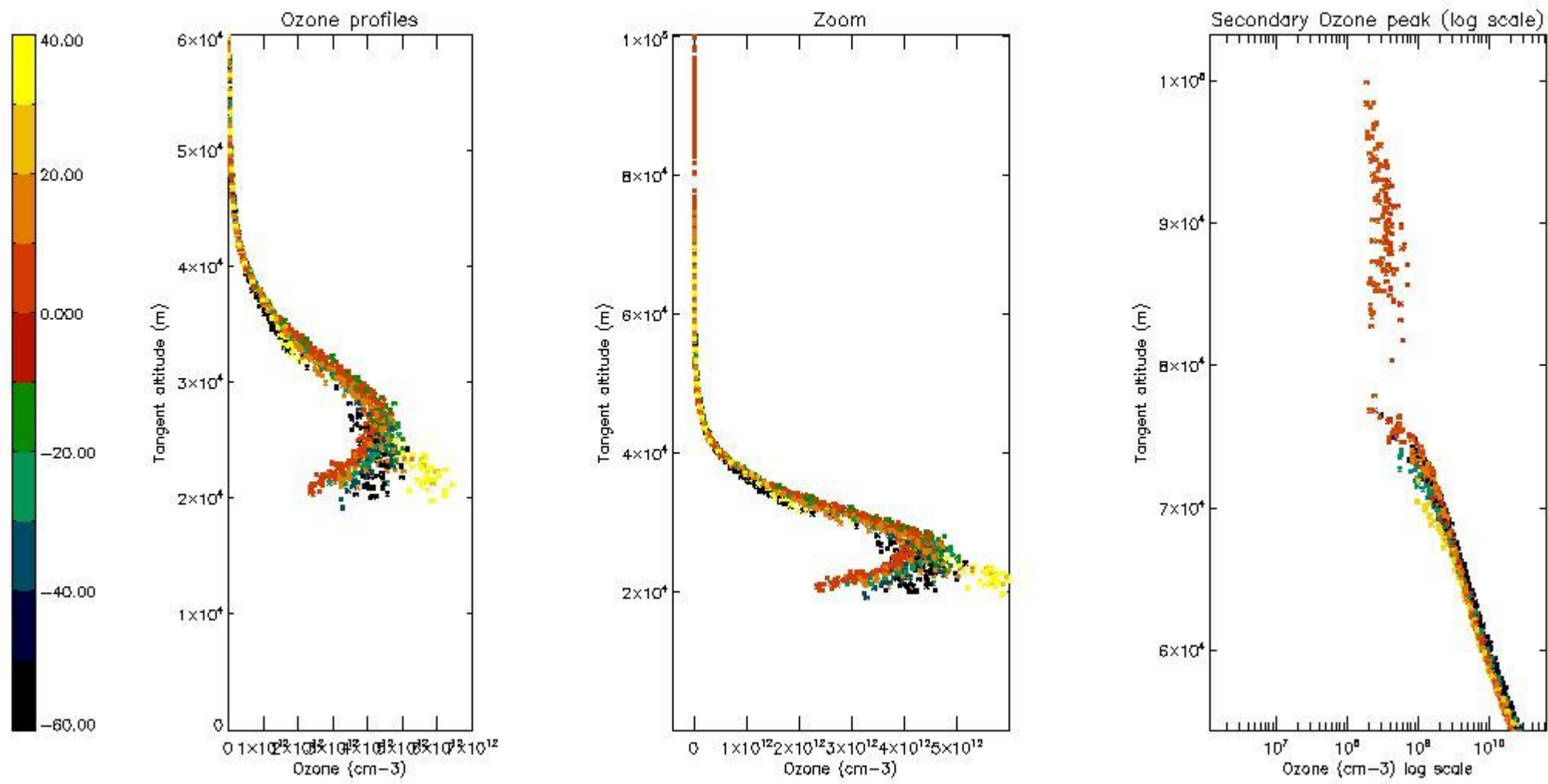
The colorbar represents the latitude.



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

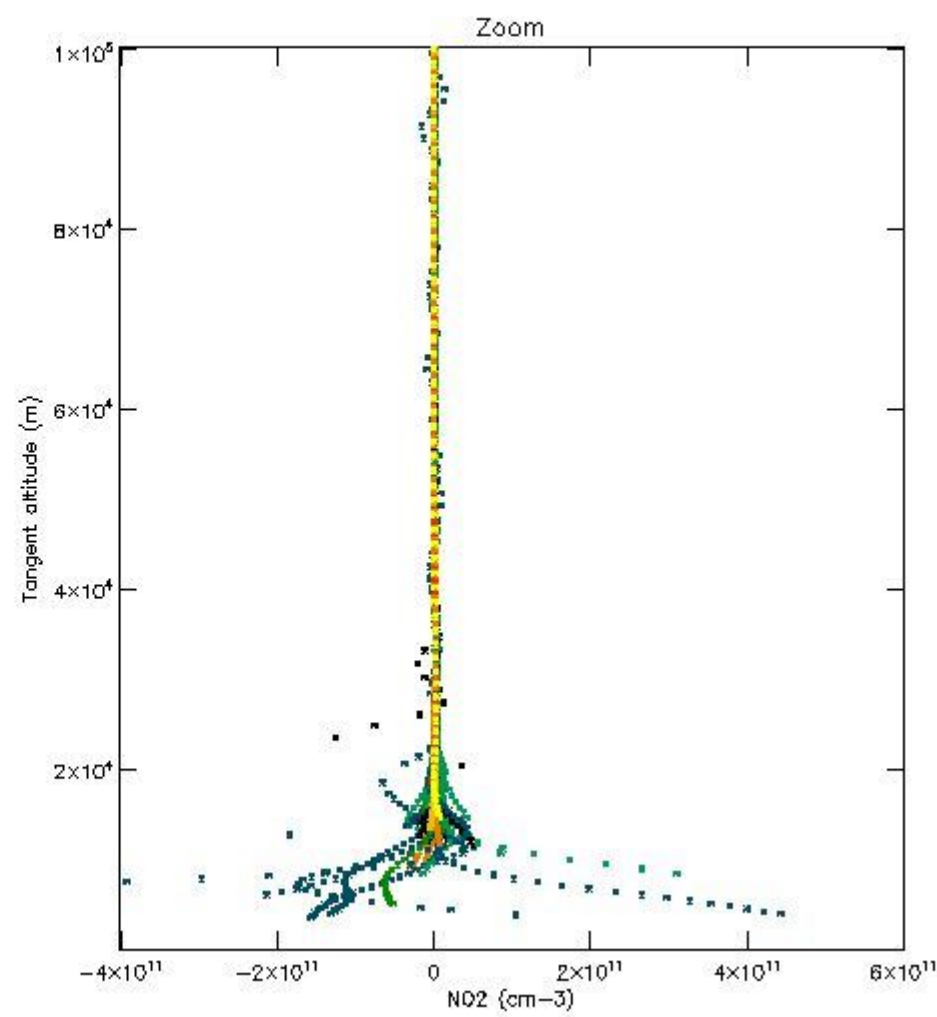
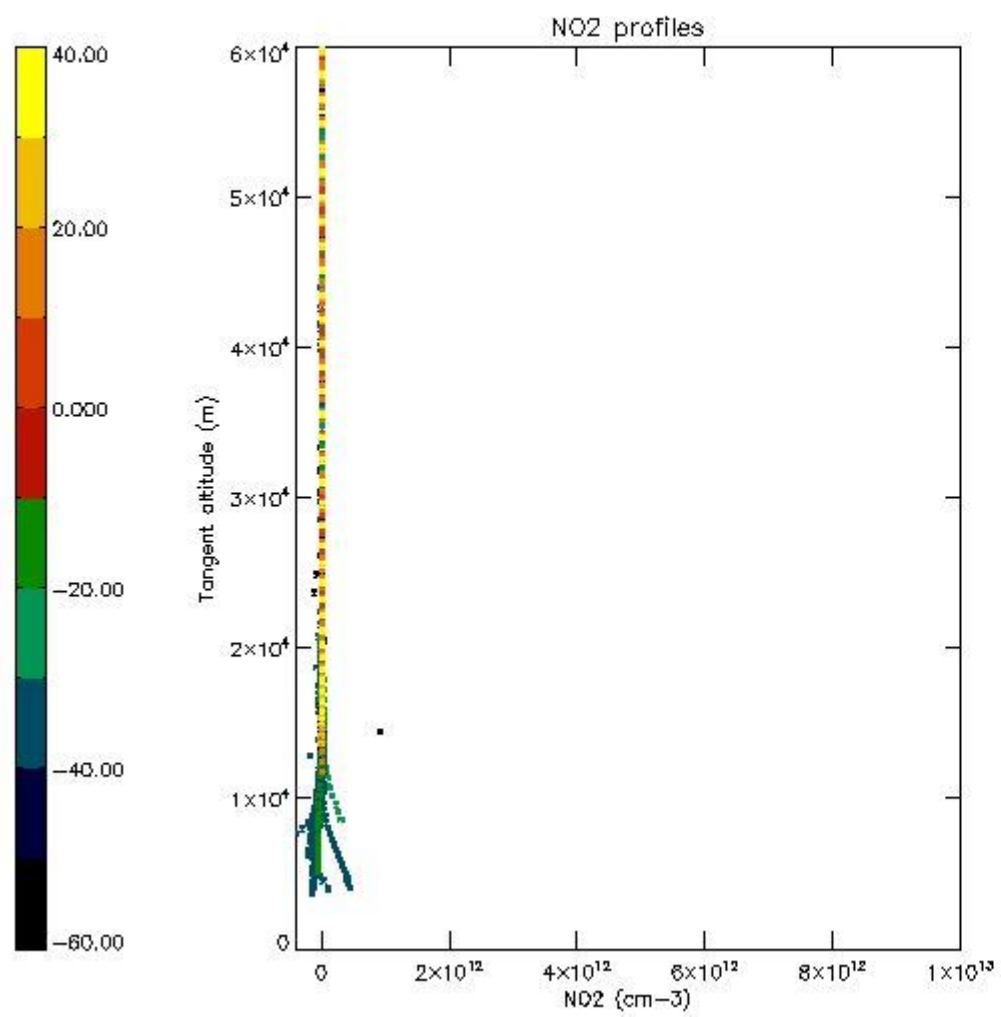
The colorbar represents the latitude.





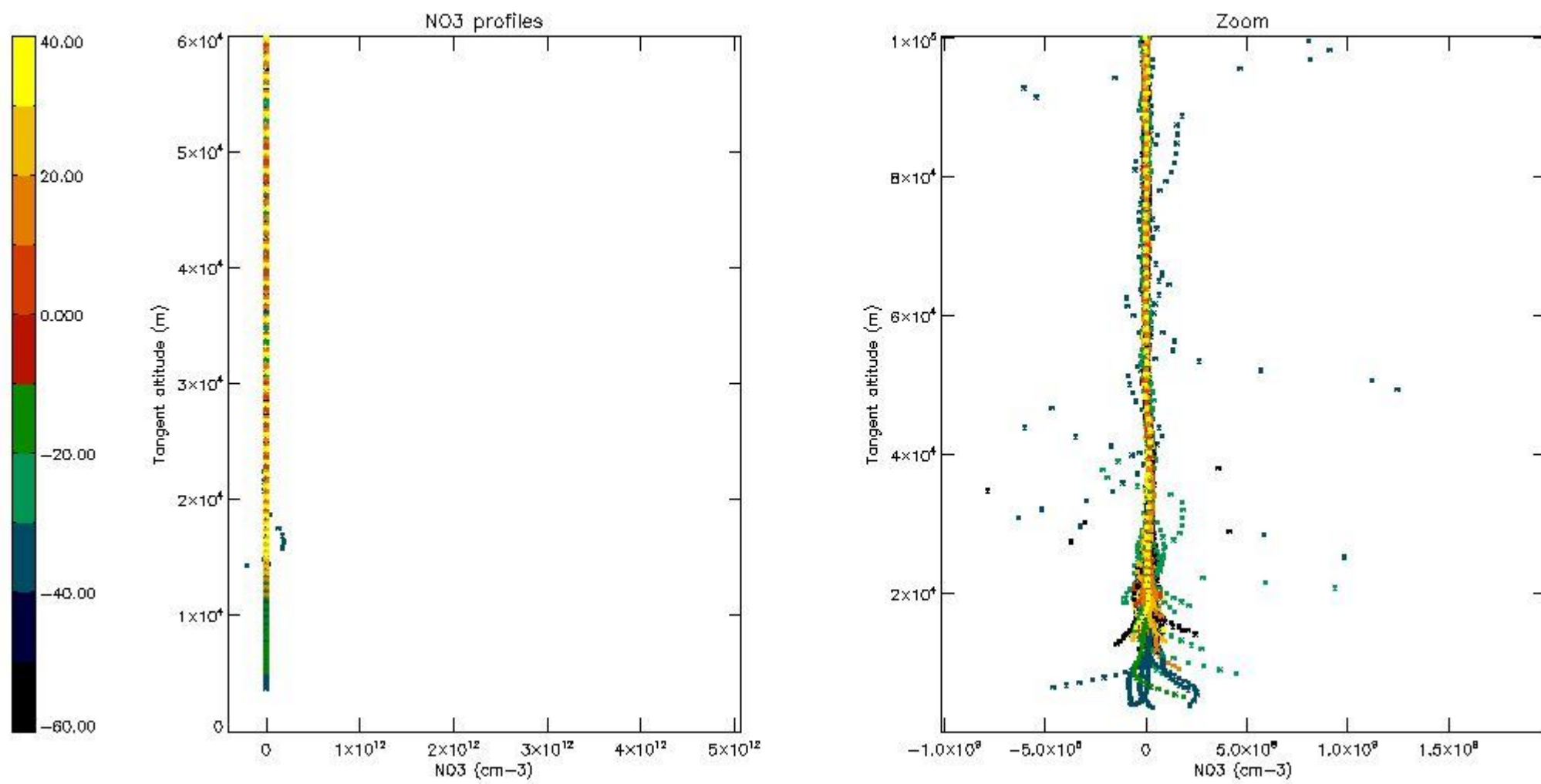
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



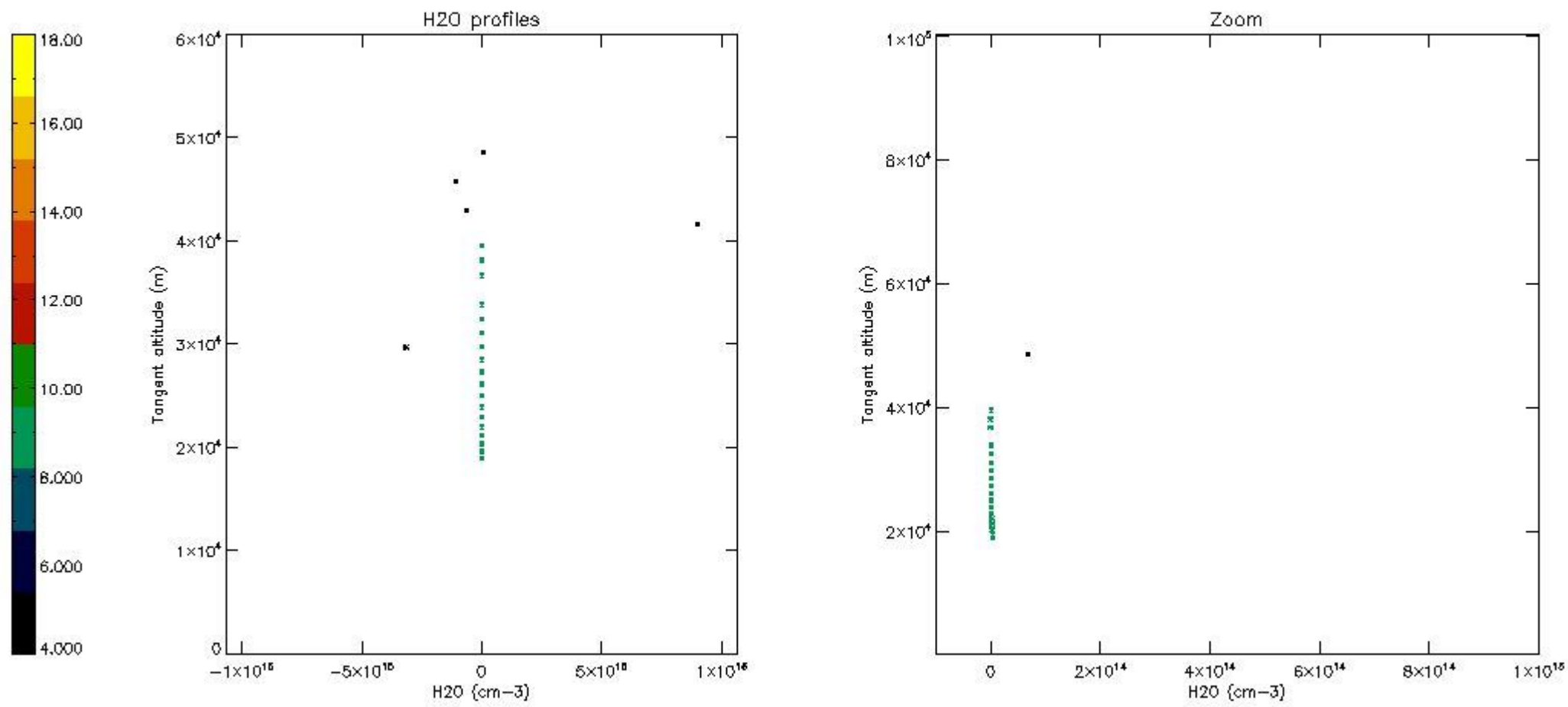
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	08-FEB-2003 00:00:55
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	08-FEB-2003 00:00:55
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	08-FEB-2003 00:00:55

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#### [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 \(dark without errors\)](#)

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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](#)











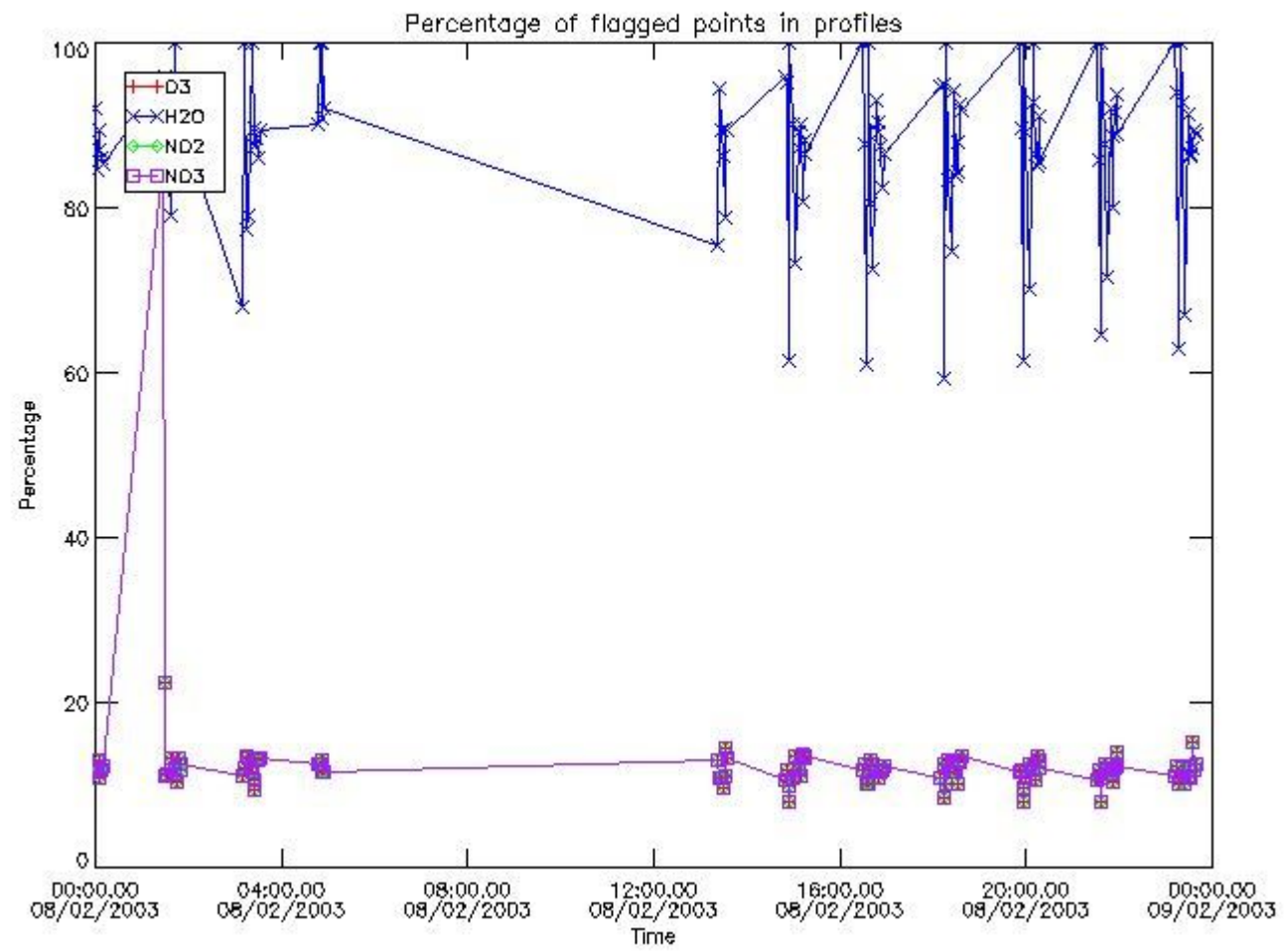




### 3. Quality information per product

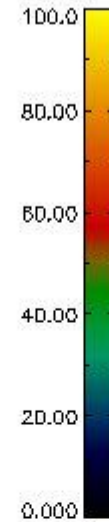
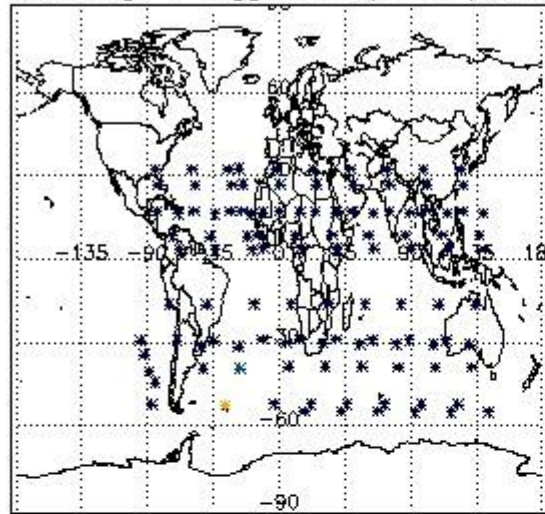
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

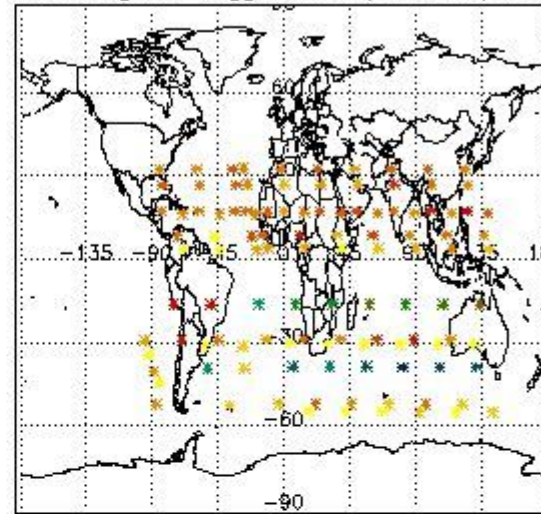


#### 3.2 Plot quality information per product (world map)

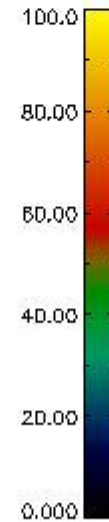
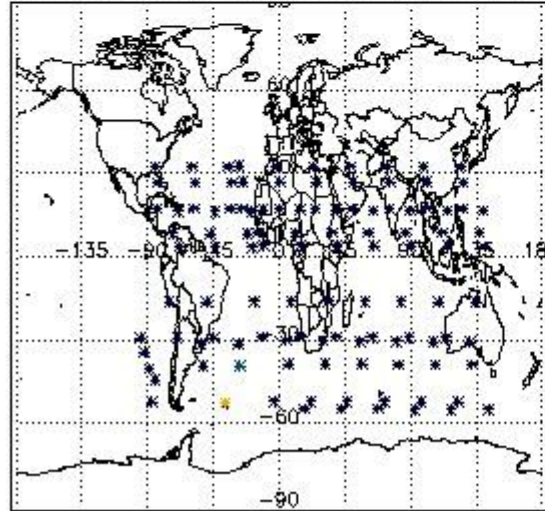
Percentage of flagged data per O3 profile



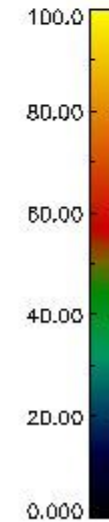
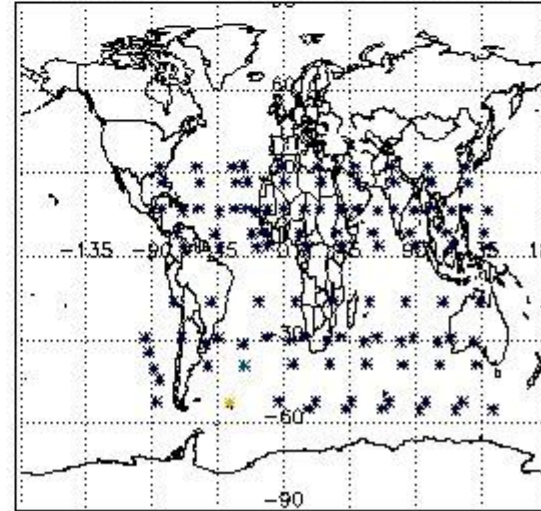
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

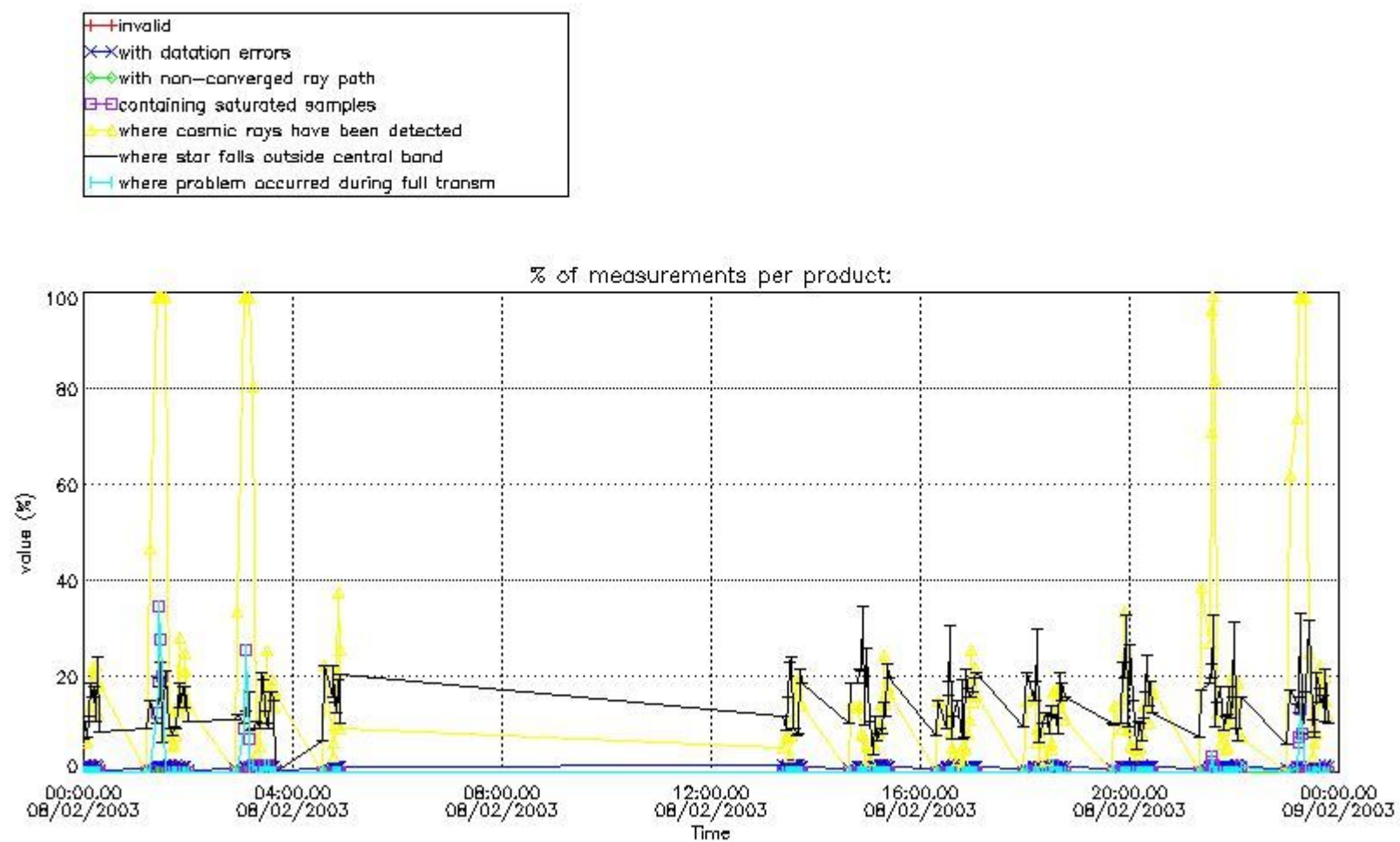


#### 4. Level 1 quality information per product

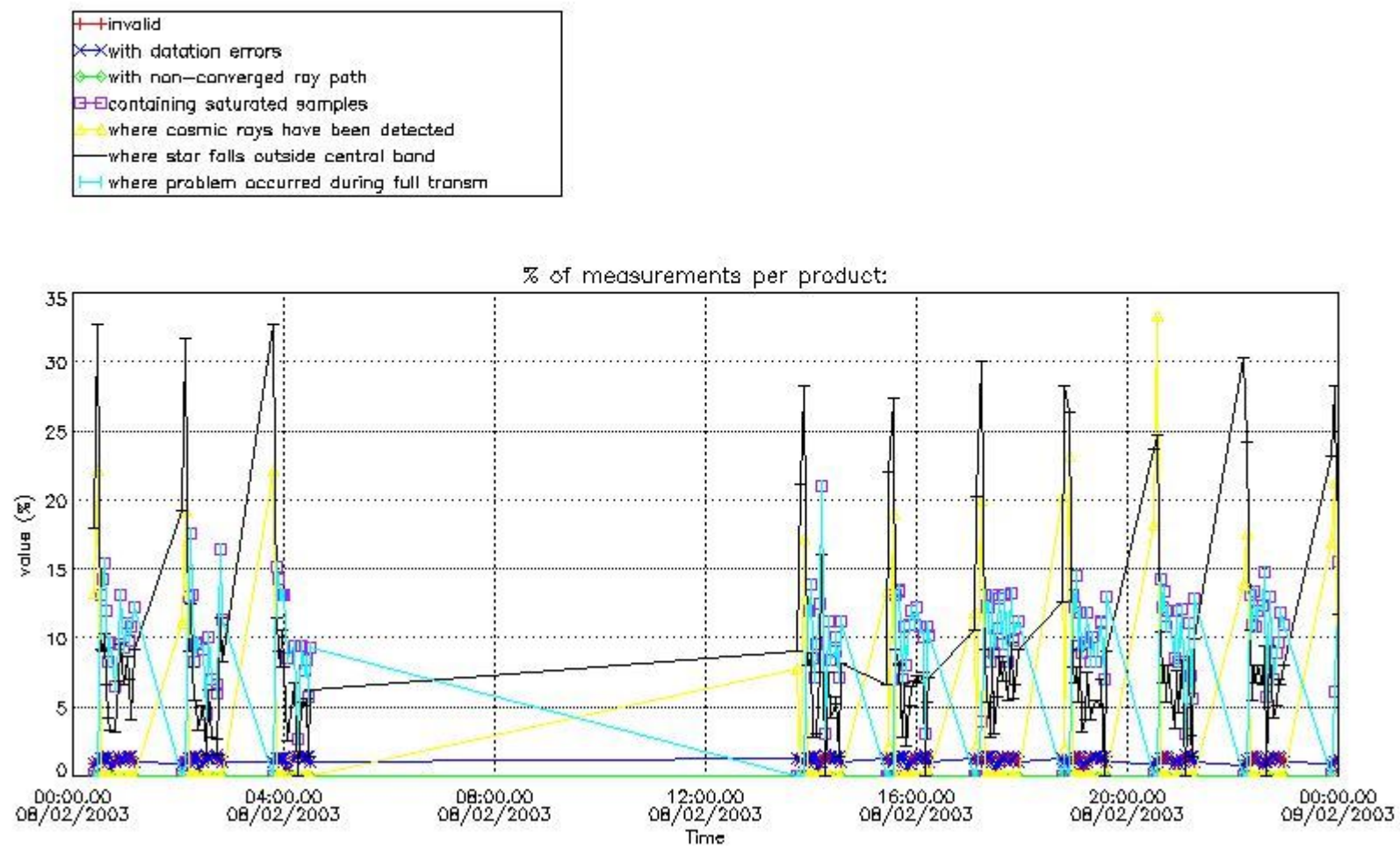
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



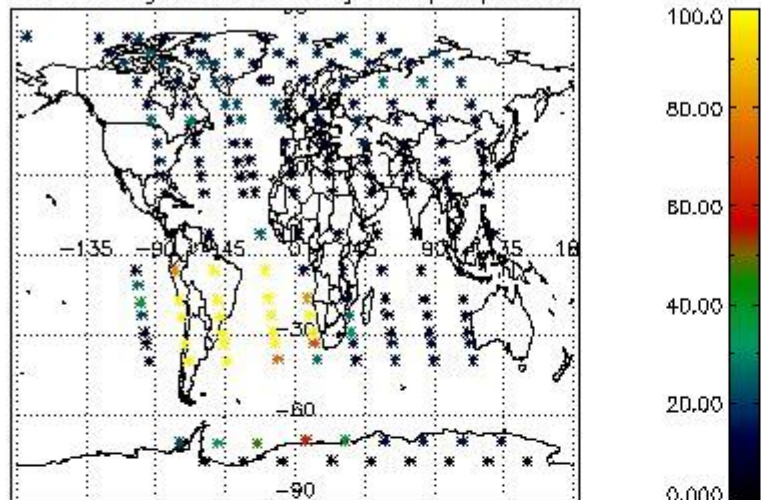
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



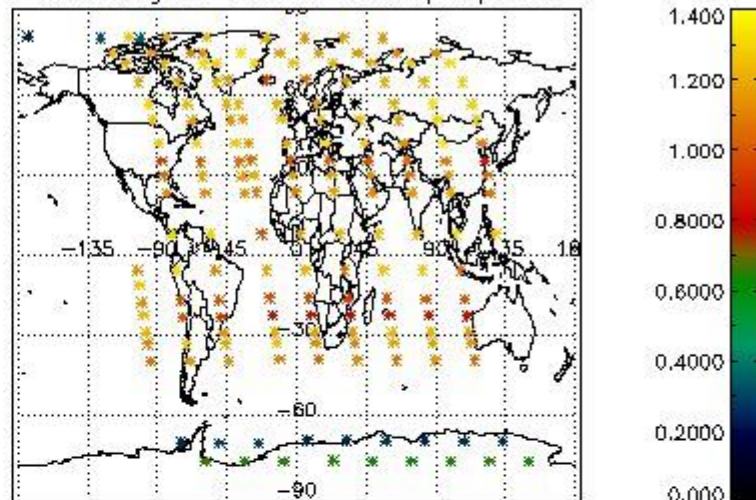
4.2 Plot quality information per product coming from level 1b processing (world map)

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

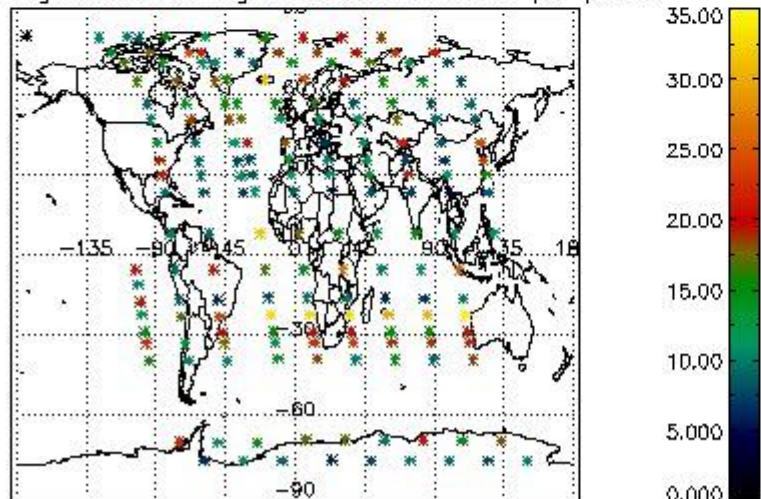
Percentage of cosmic ray hits per profile



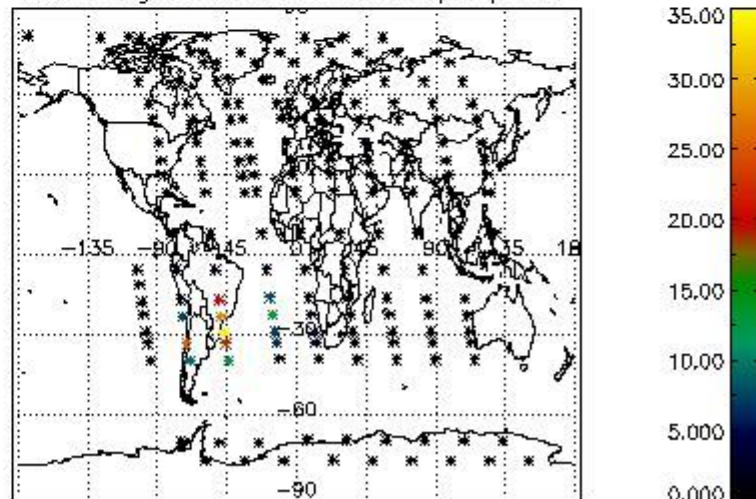
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

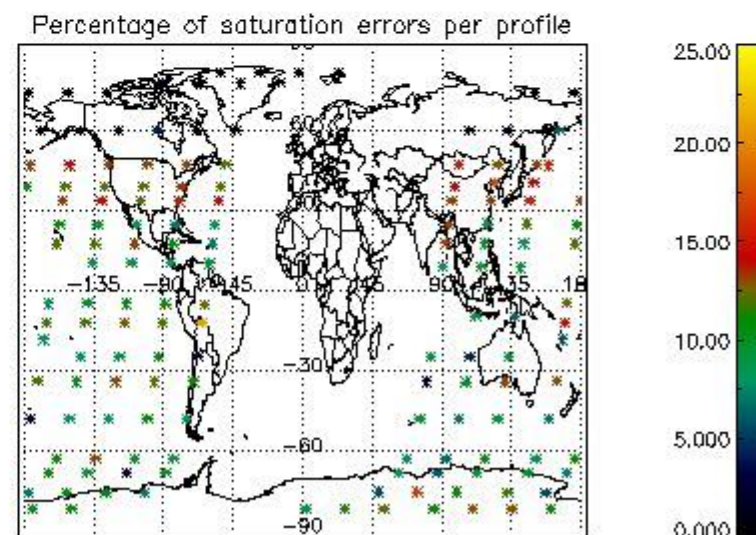
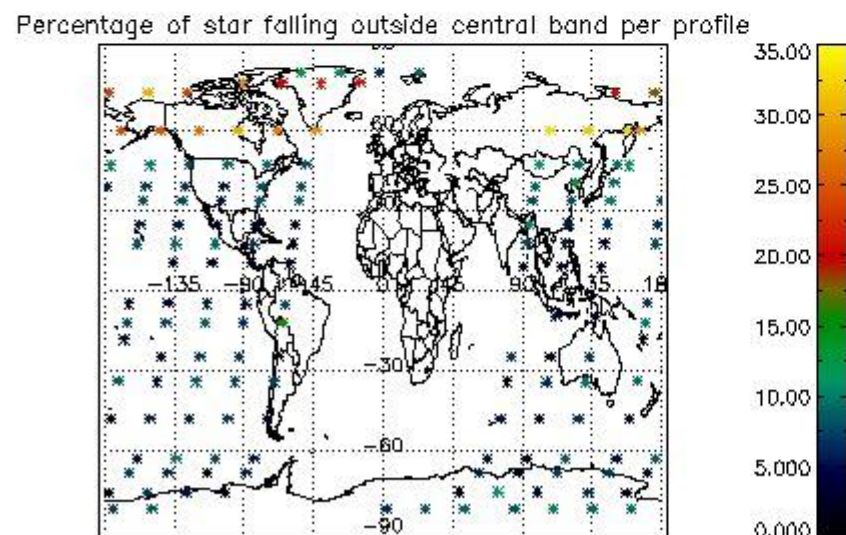
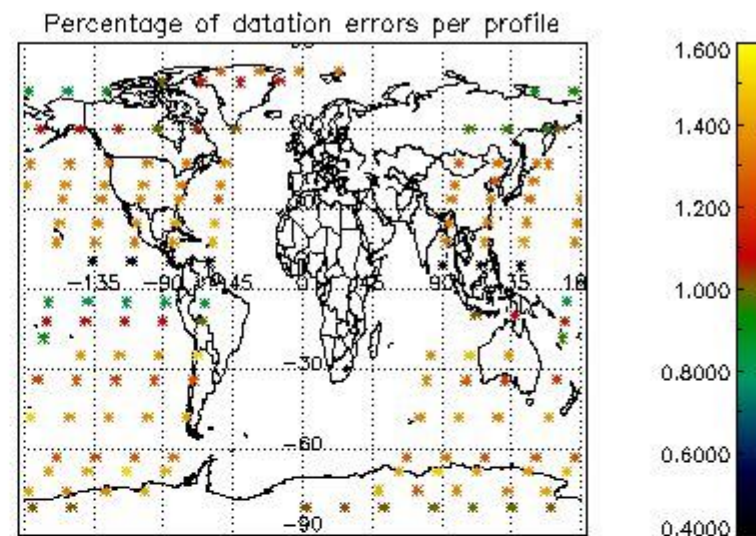
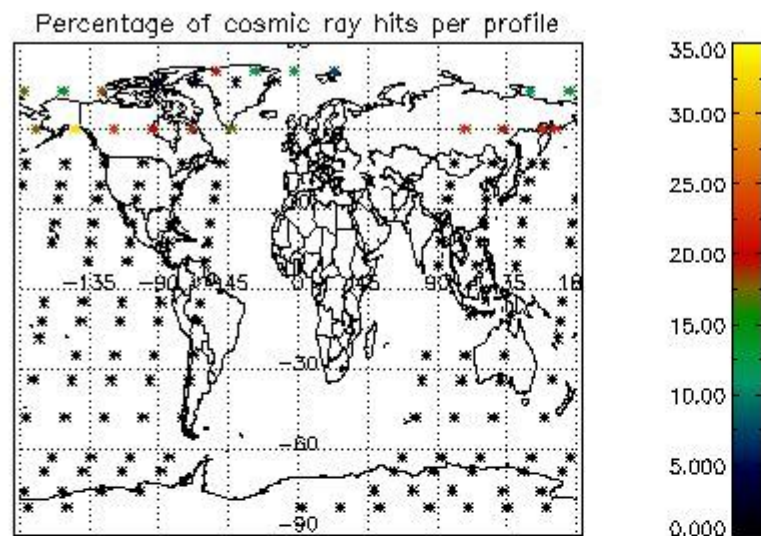


Percentage of saturation errors per profile



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

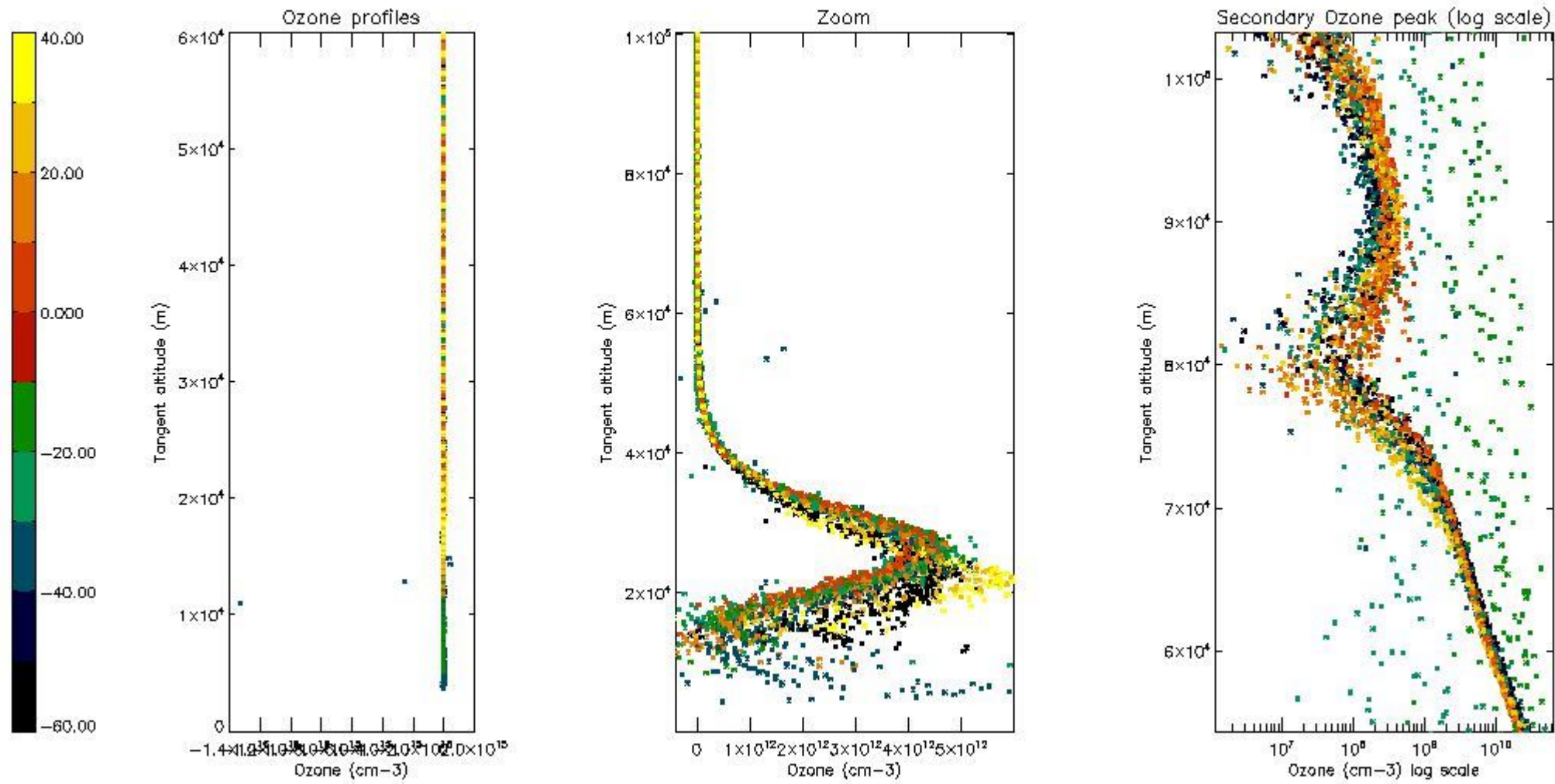
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	29
STD < 20	17

STD < 10	14
STD < 5	10

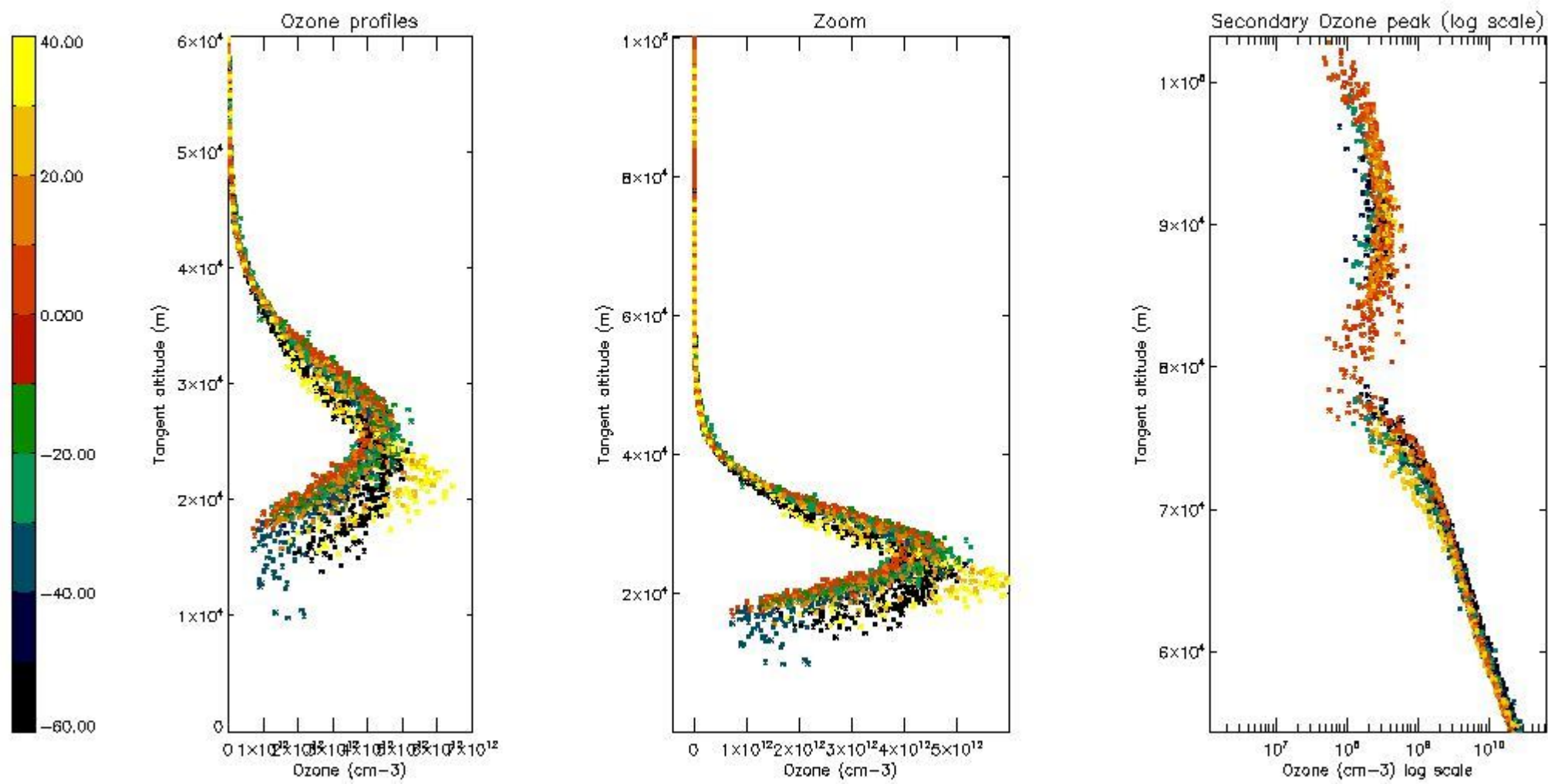
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



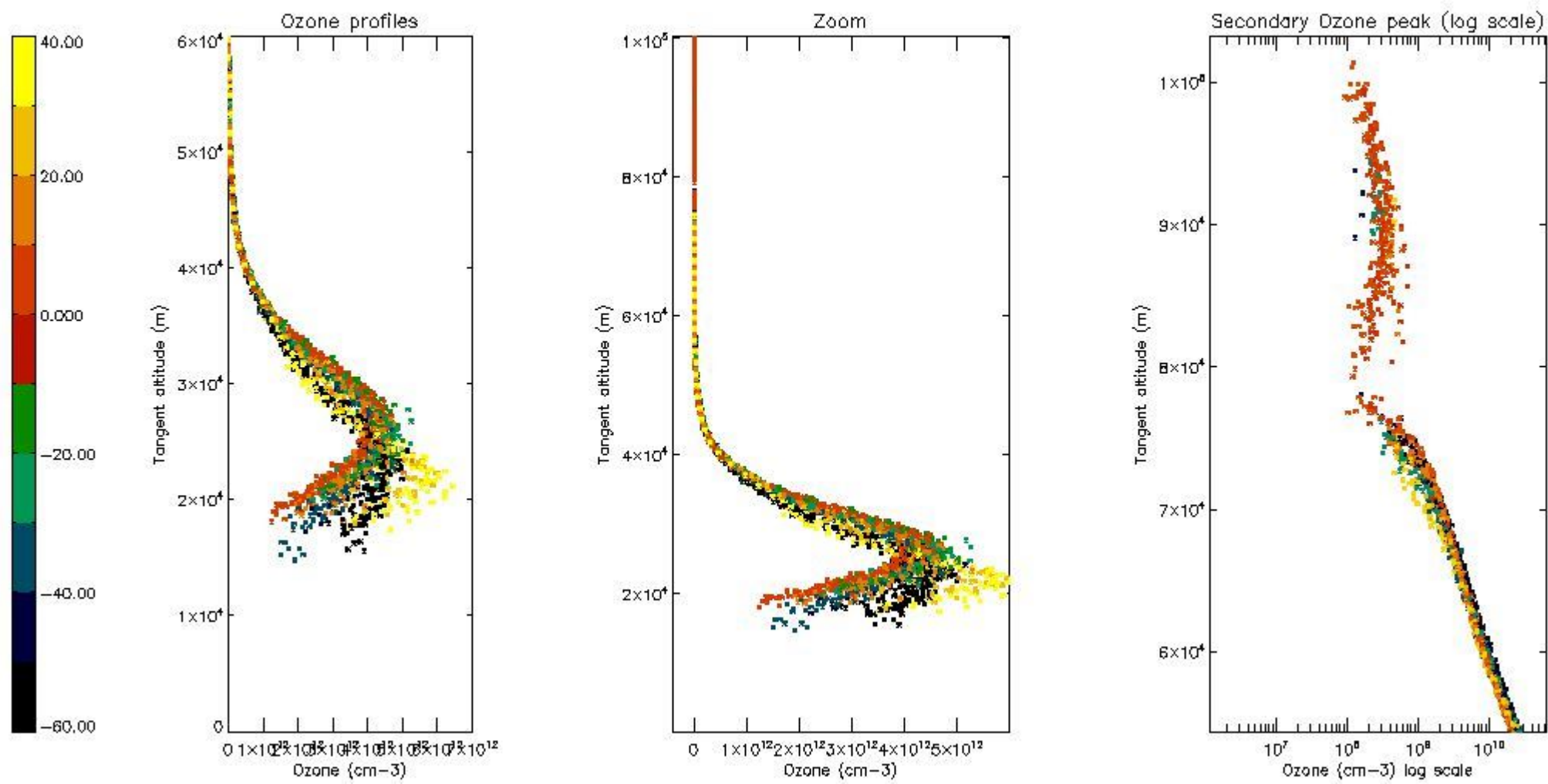
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



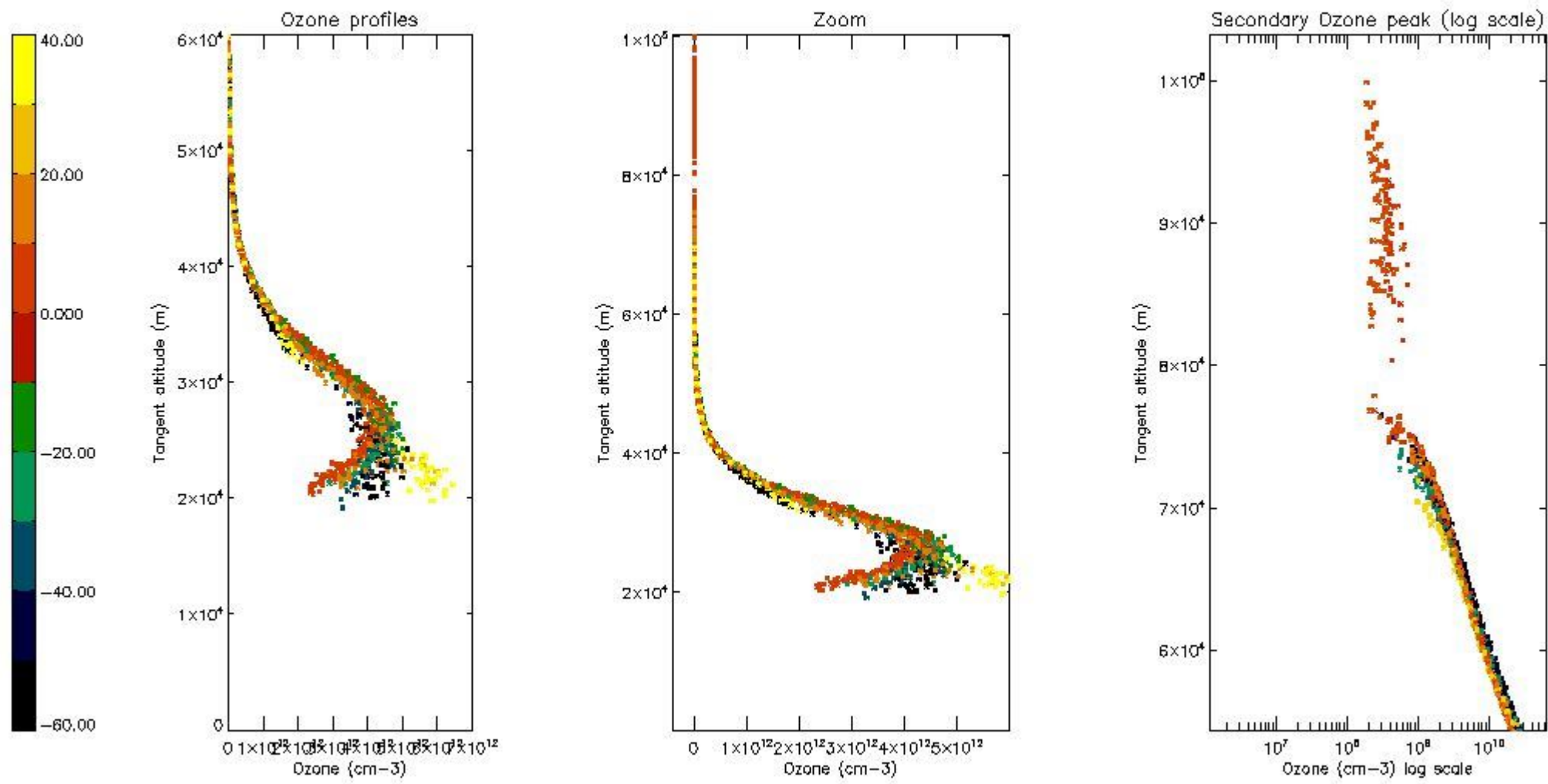
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



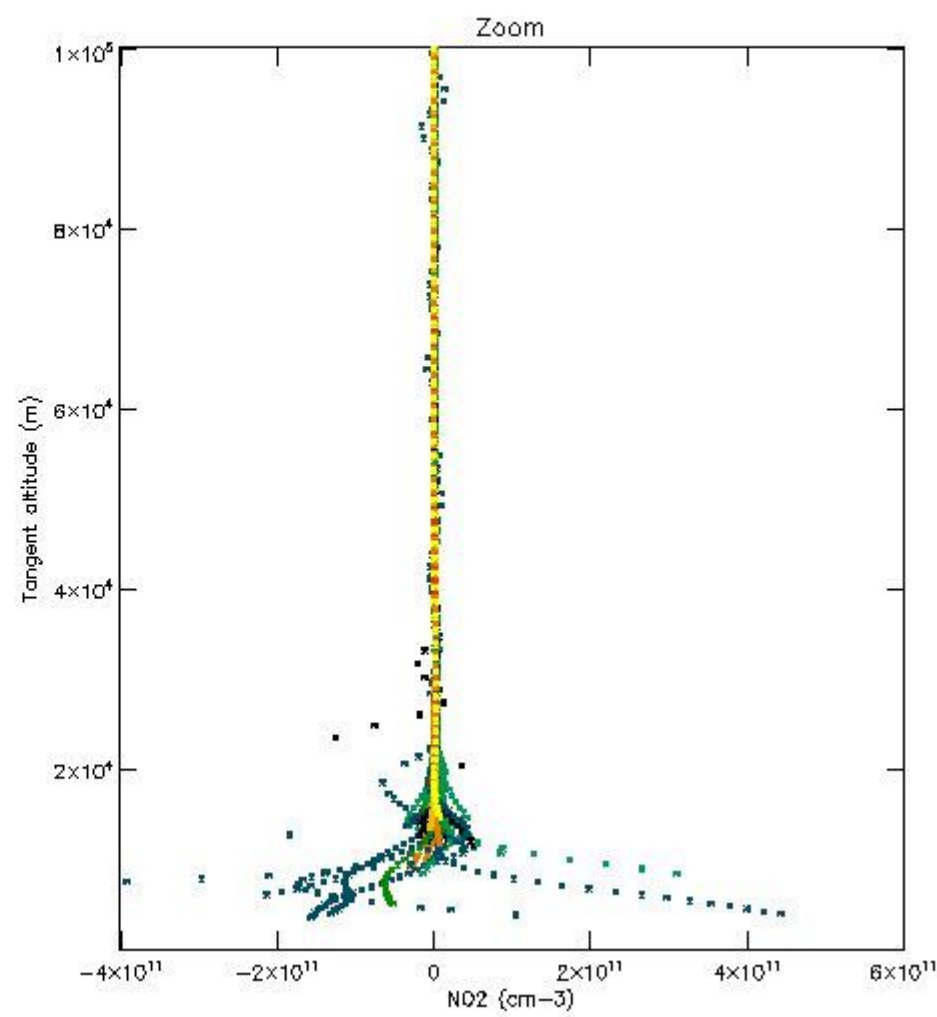
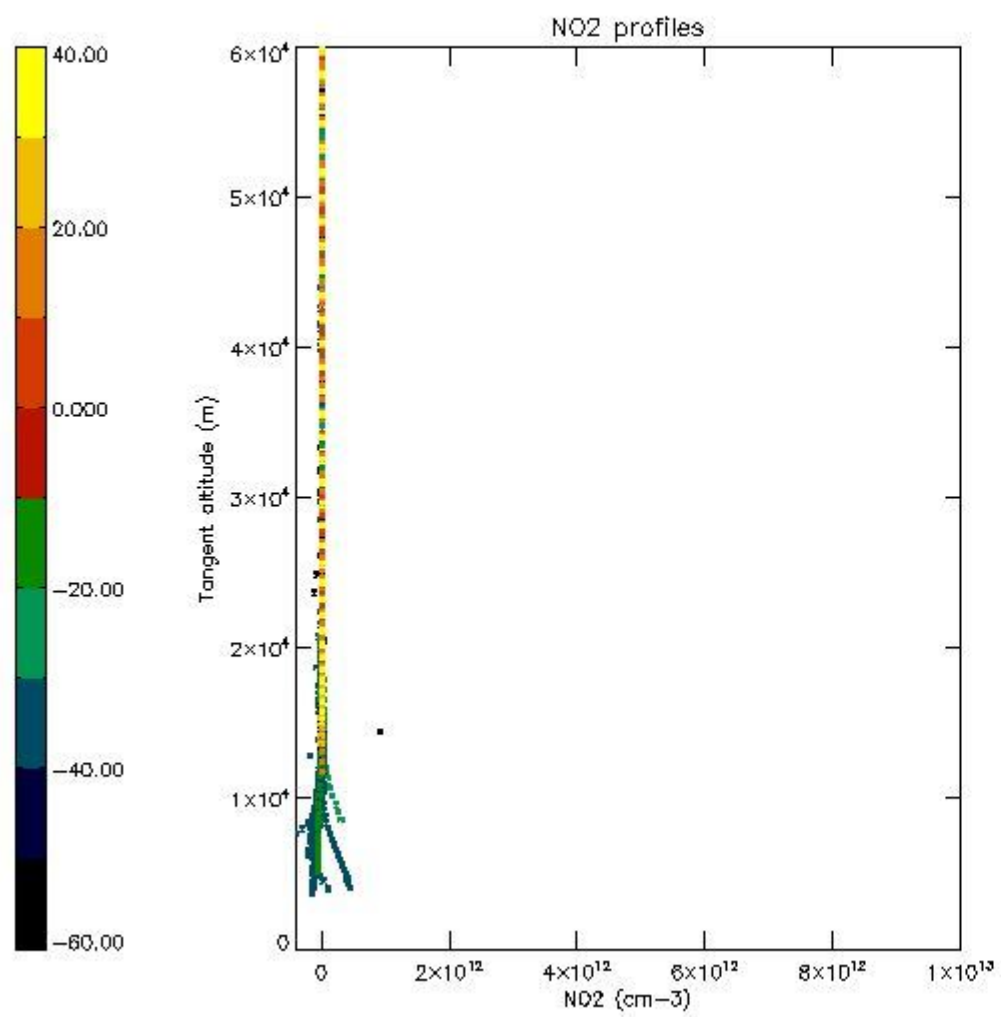
*5.5 Plot ozone profiles where  $STD < 5\%$  (dark without errors)*

The colorbar represents the latitude.



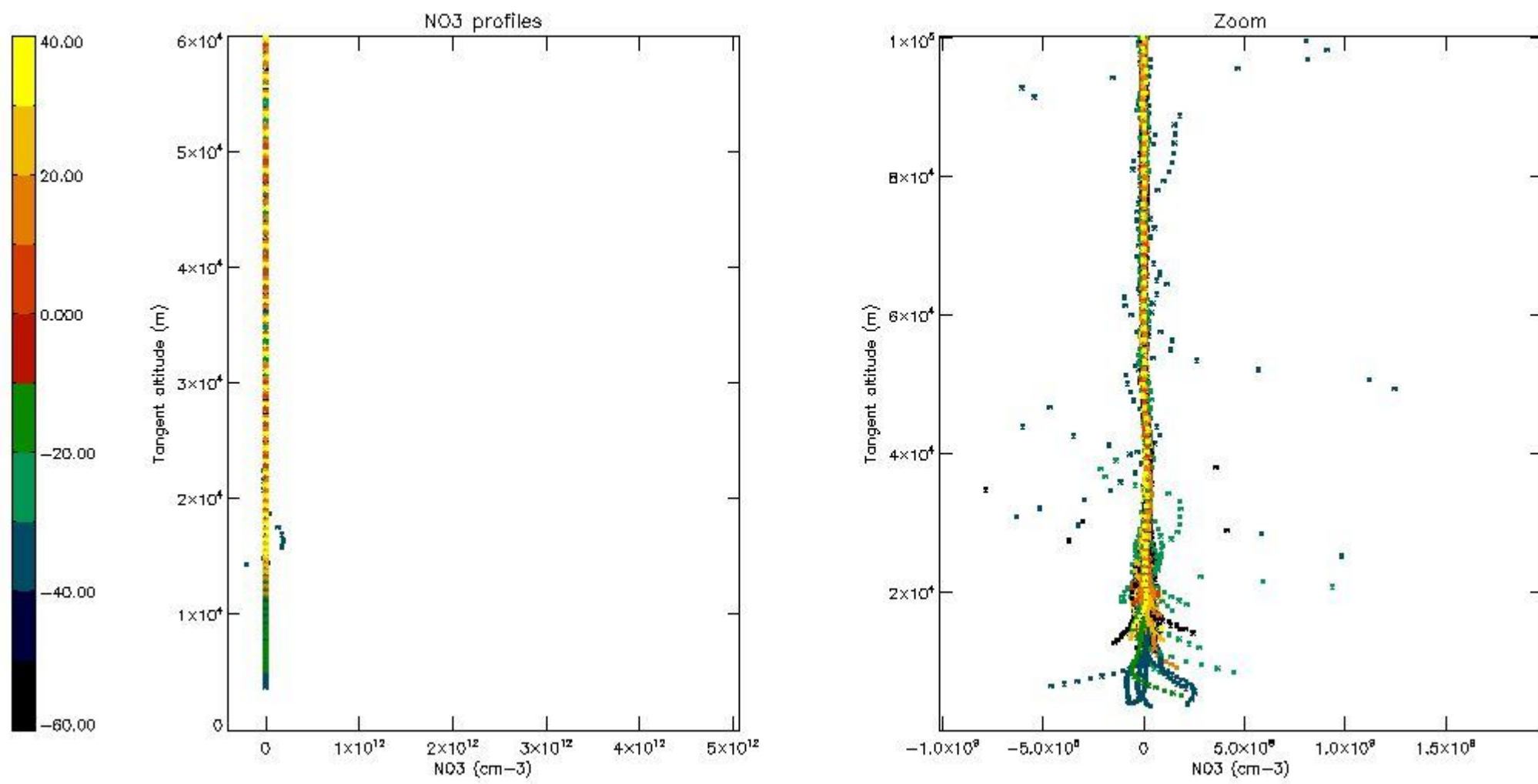
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



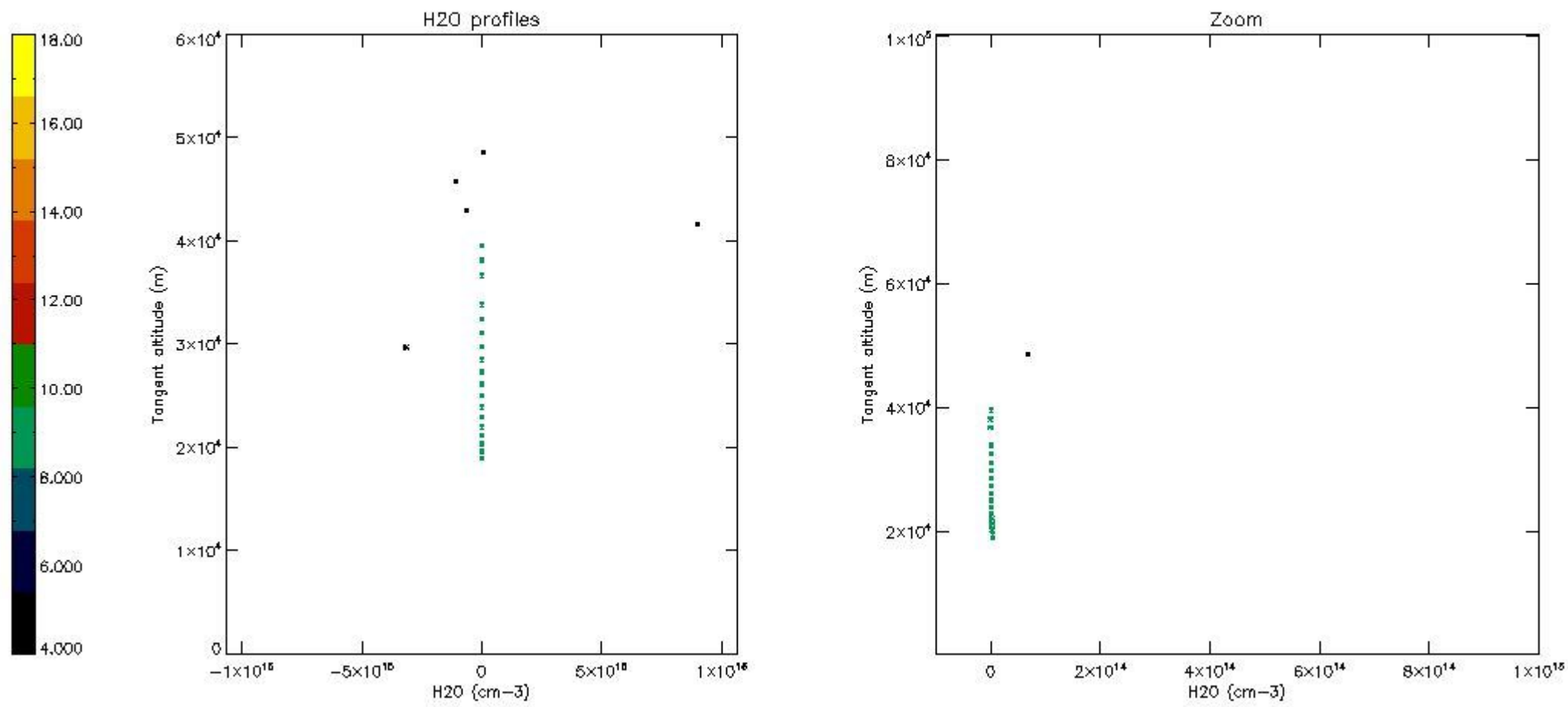
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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.

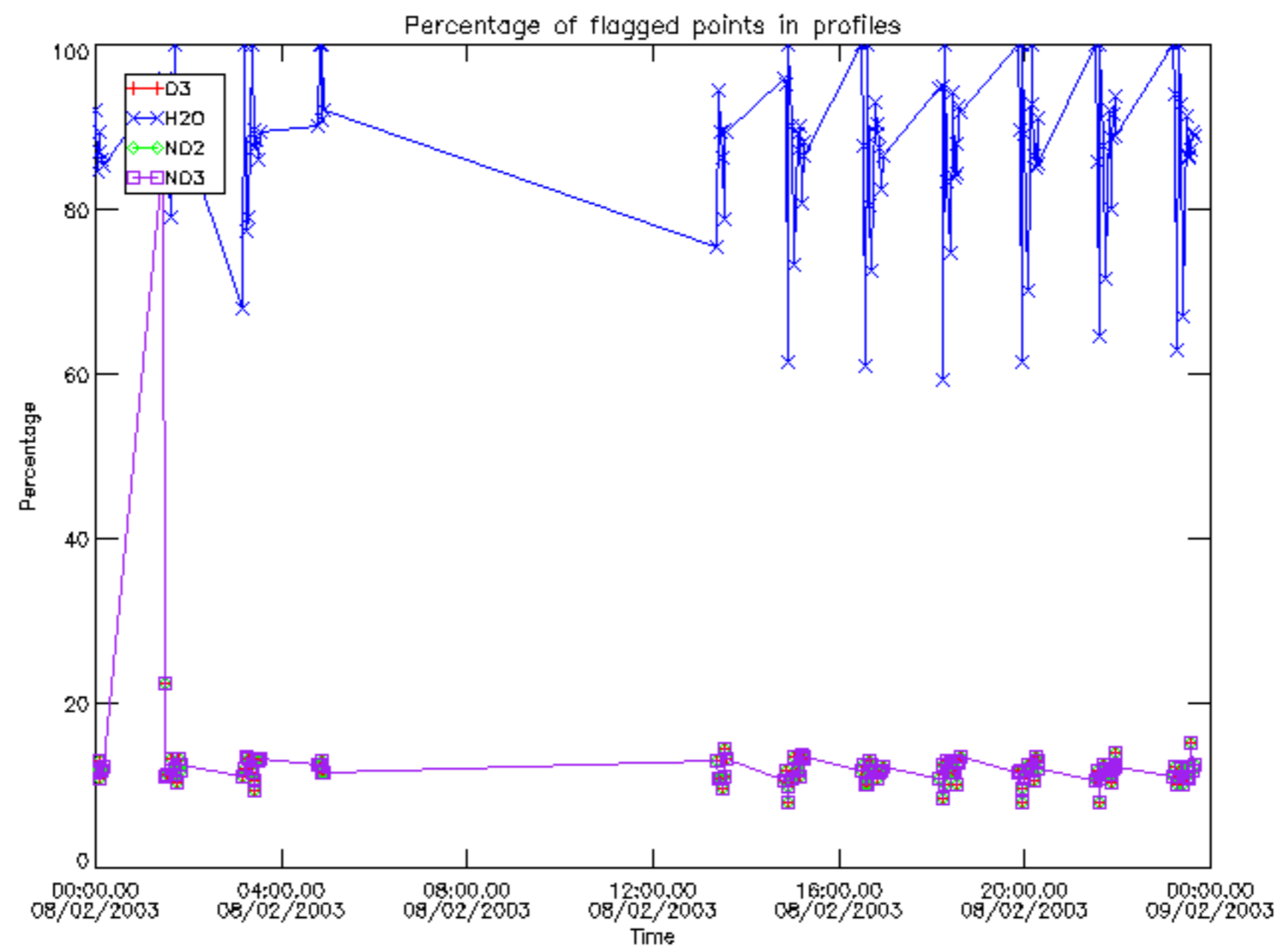


## 6. Auxiliary Data Files used for the production reported in section 2

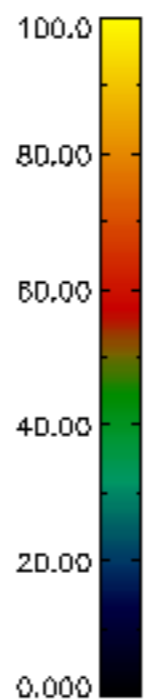
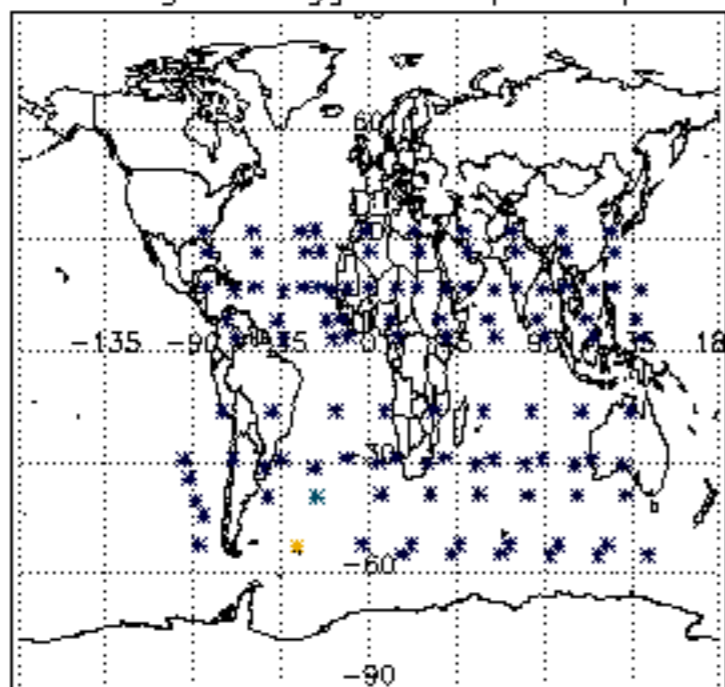
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	08-FEB-2003 00:00:55
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	08-FEB-2003 00:00:55
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	08-FEB-2003 00:00:55

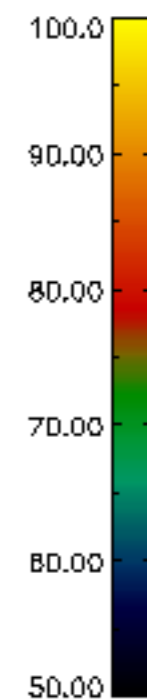
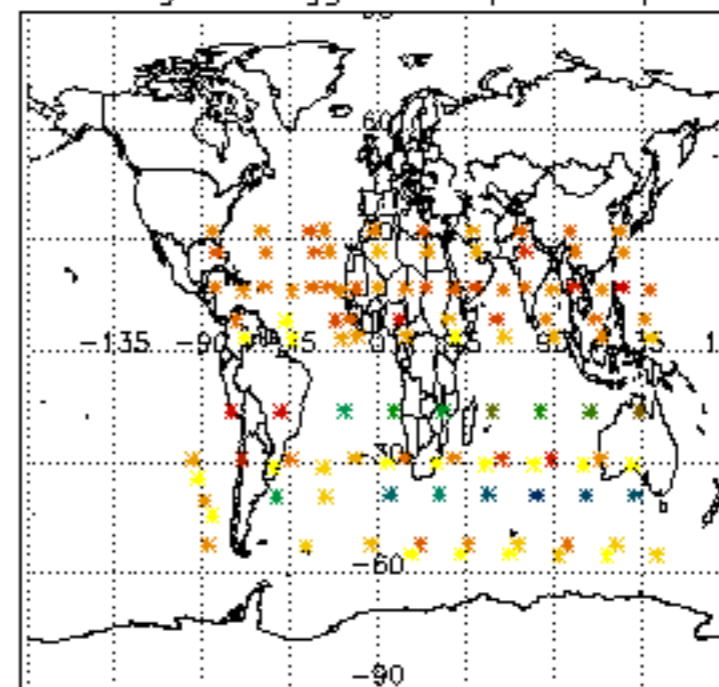




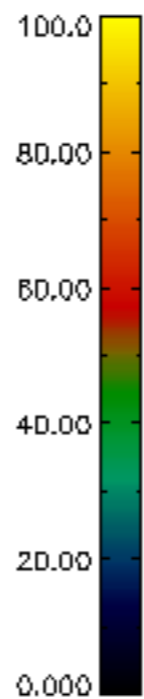
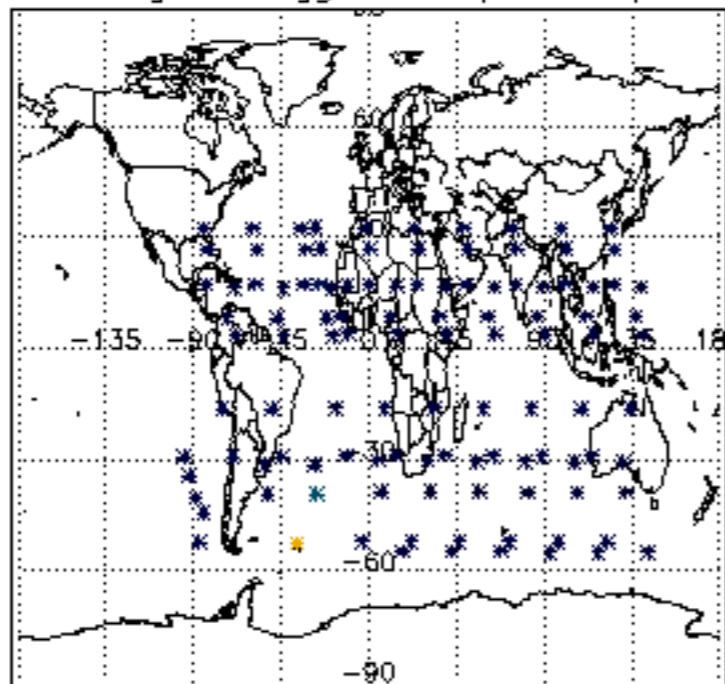
Percentage of flagged data per D3 profile



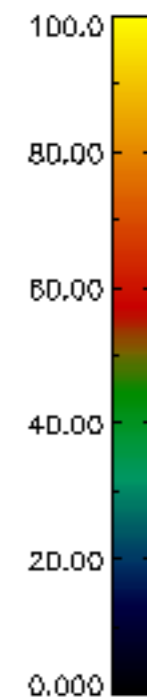
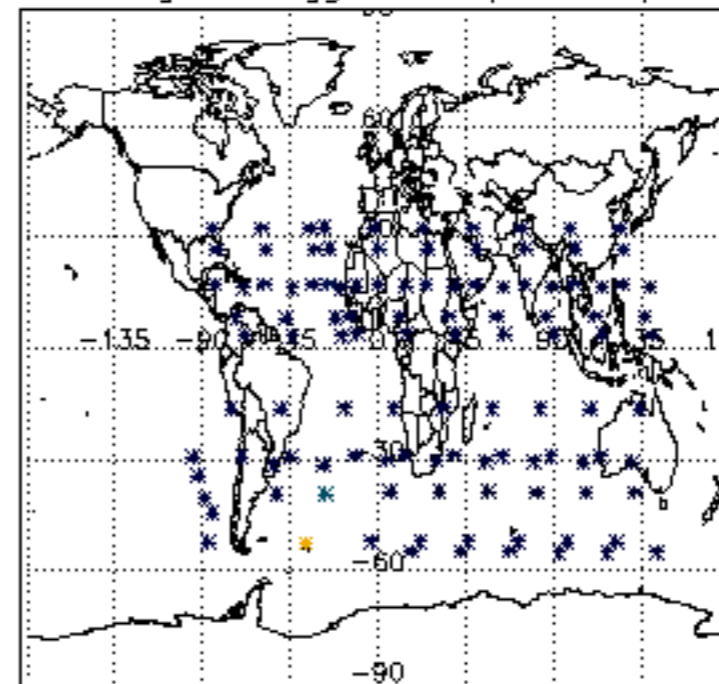
Percentage of flagged data per H2O profile

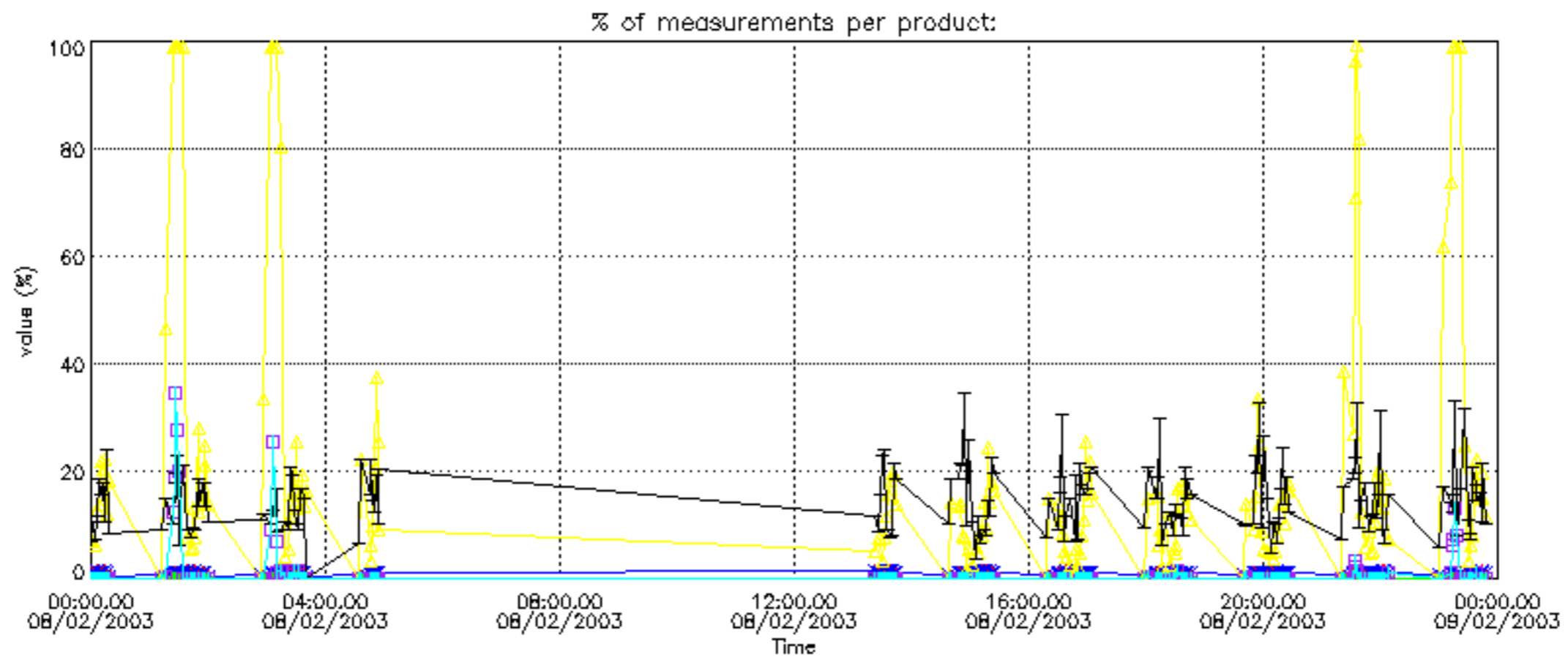
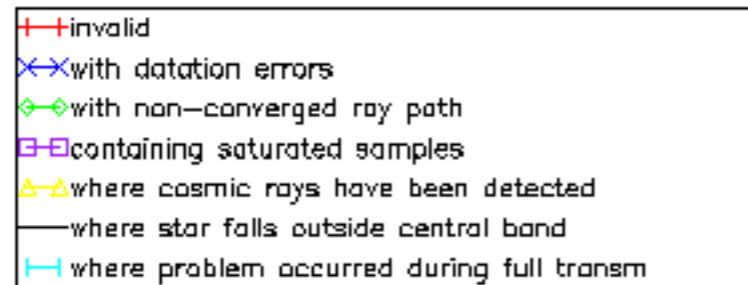


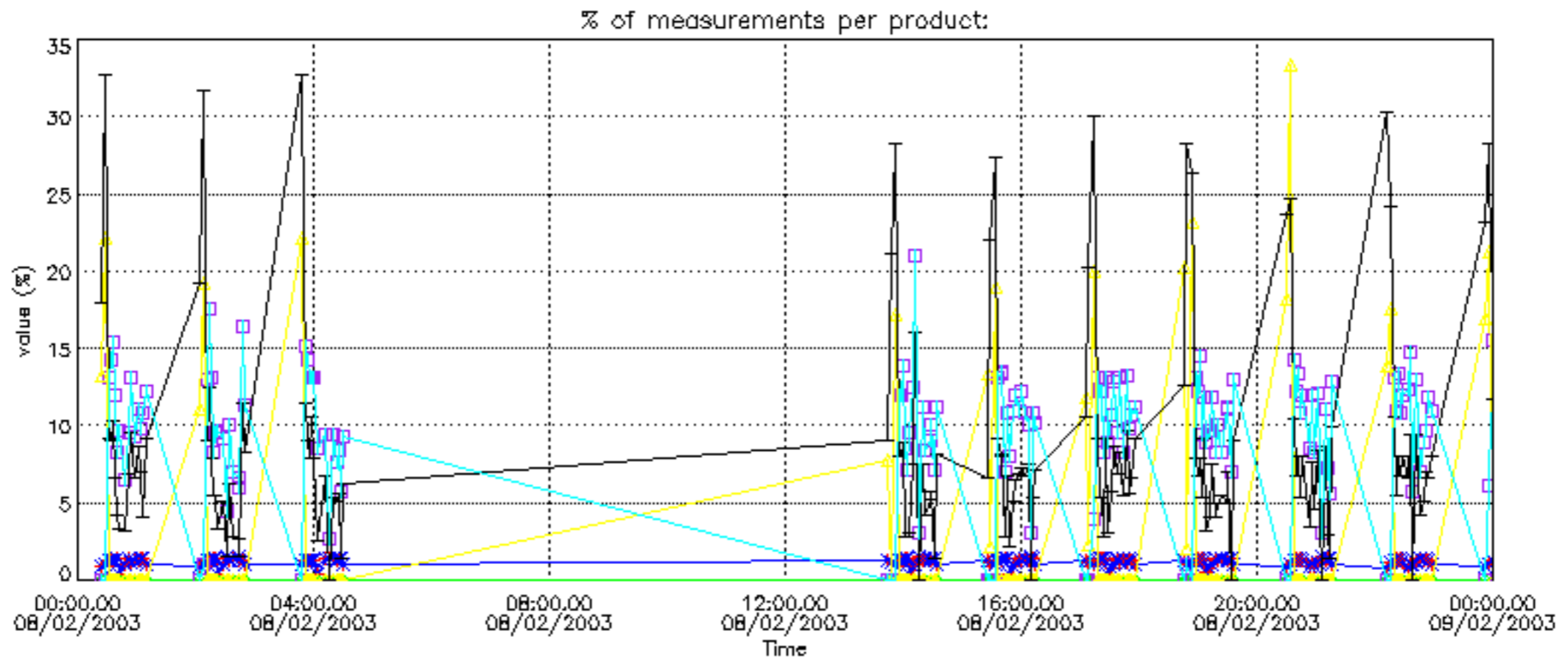
Percentage of flagged data per NO2 profile



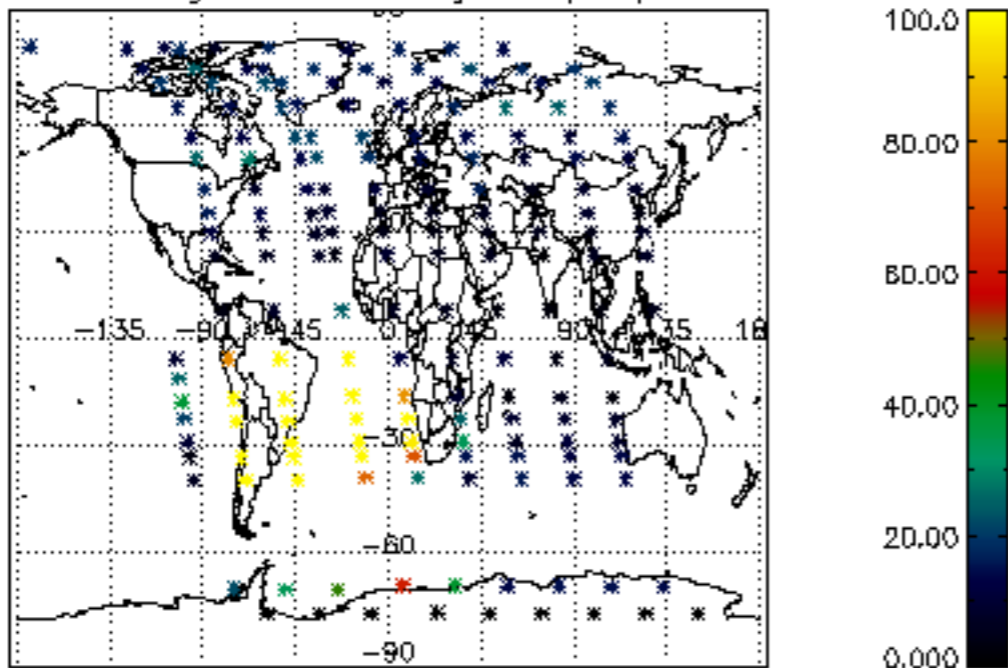
Percentage of flagged data per NO3 profile



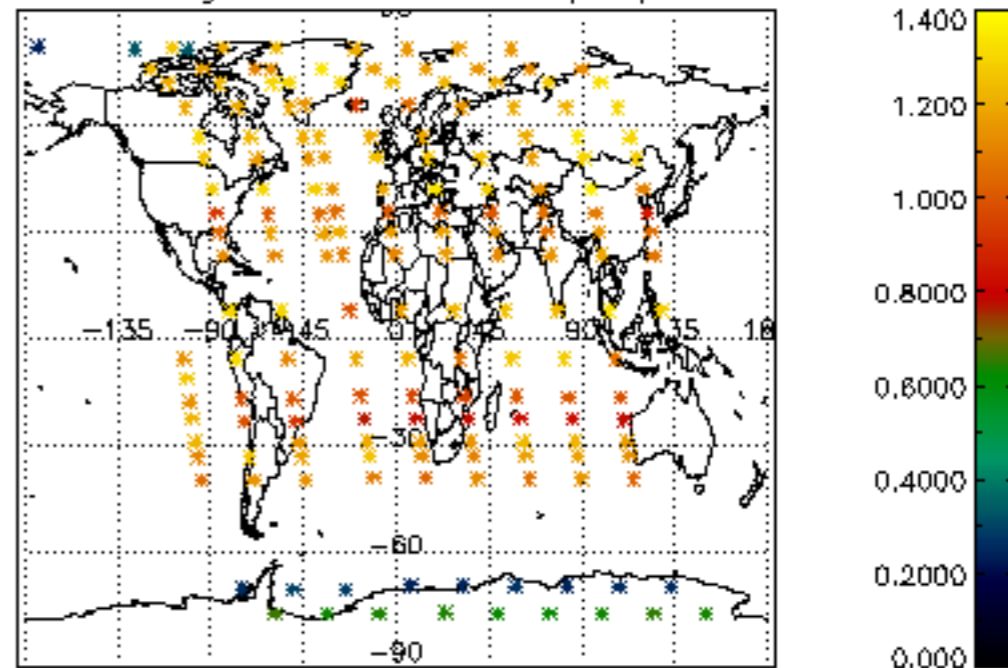




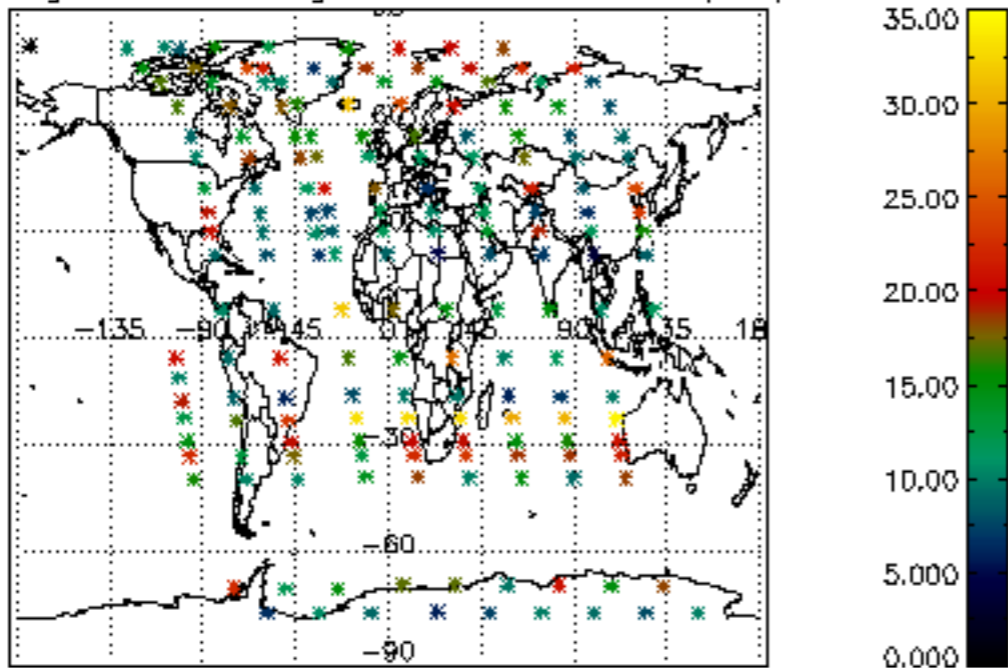
Percentage of cosmic ray hits per profile



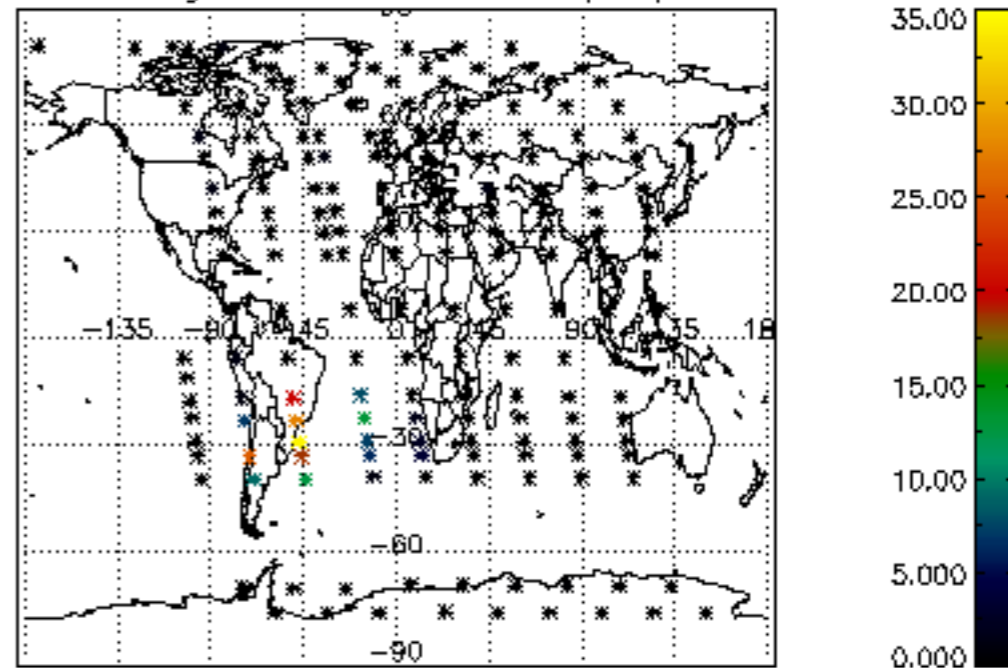
Percentage of datation errors per profile



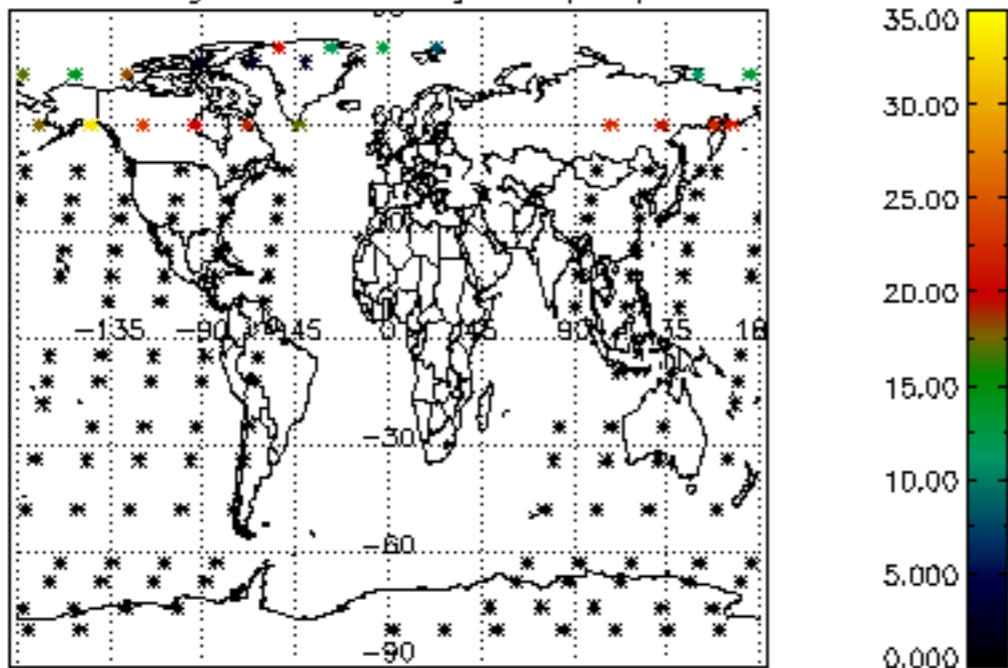
Percentage of star falling outside central band per profile



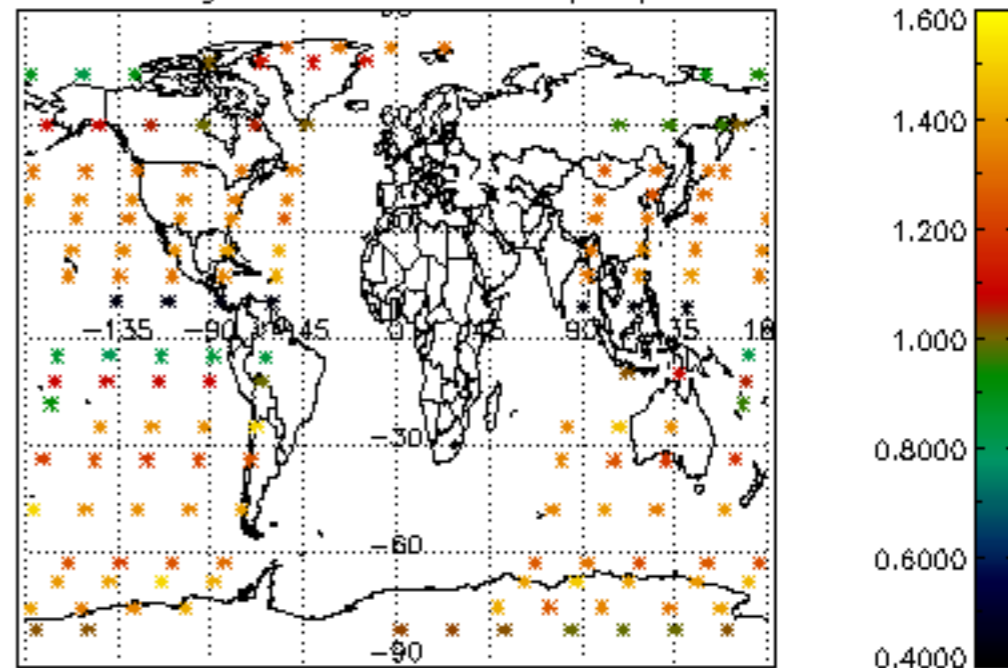
Percentage of saturation errors per profile



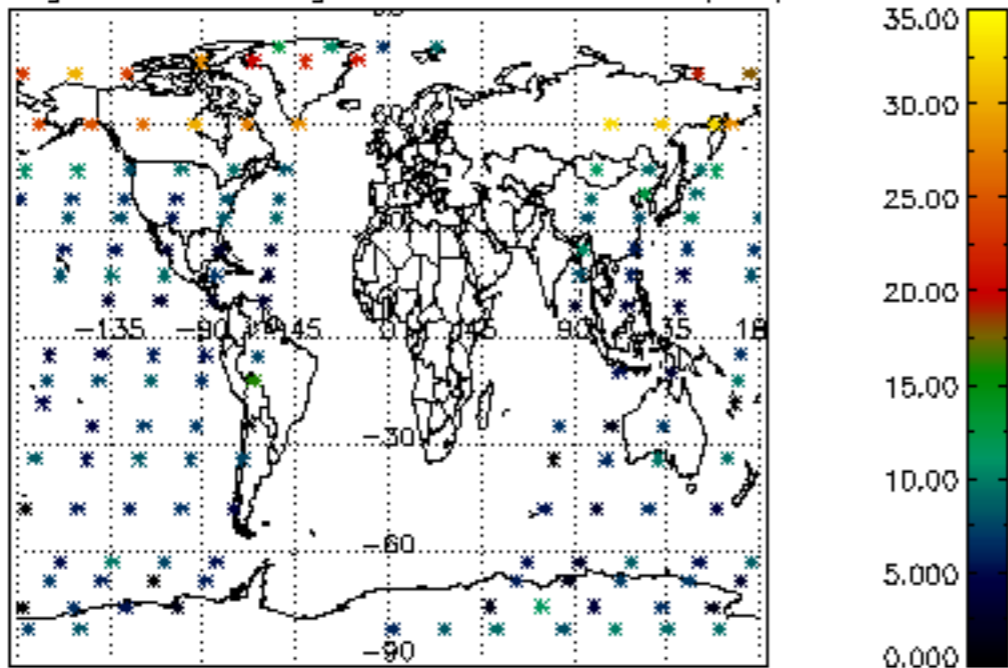
Percentage of cosmic ray hits per profile



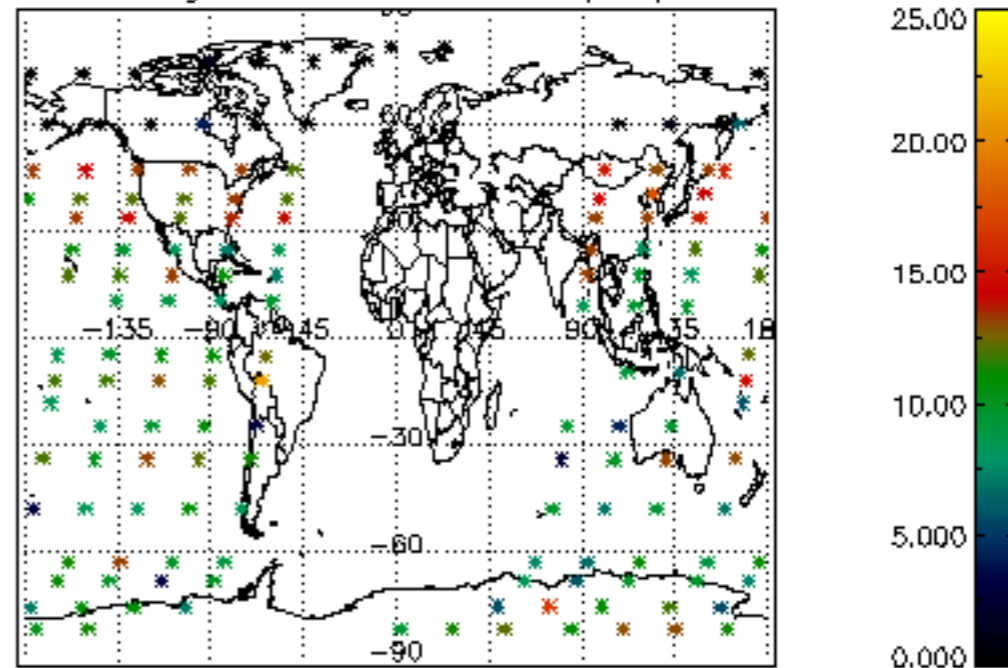
Percentage of datation errors per profile

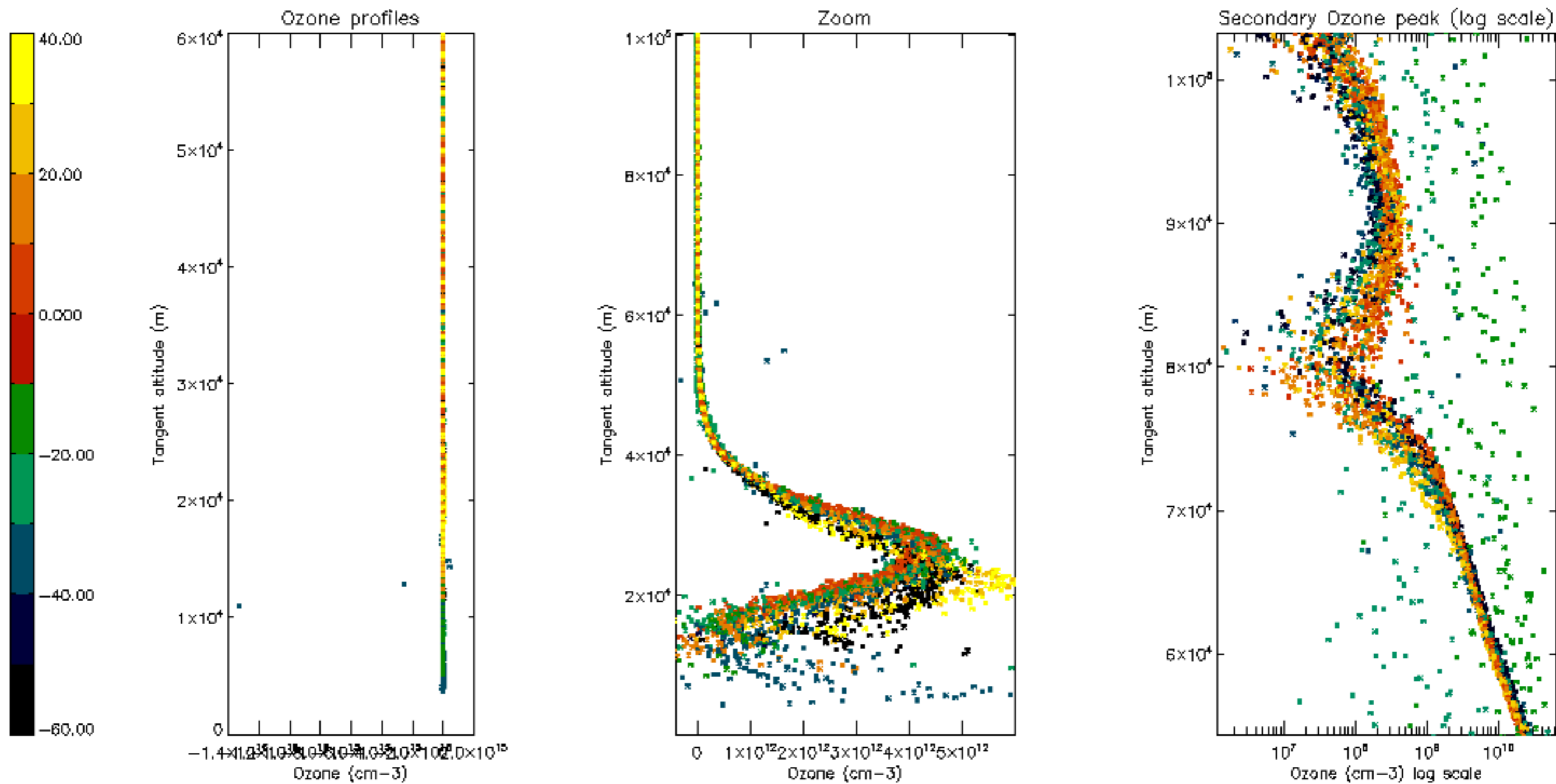


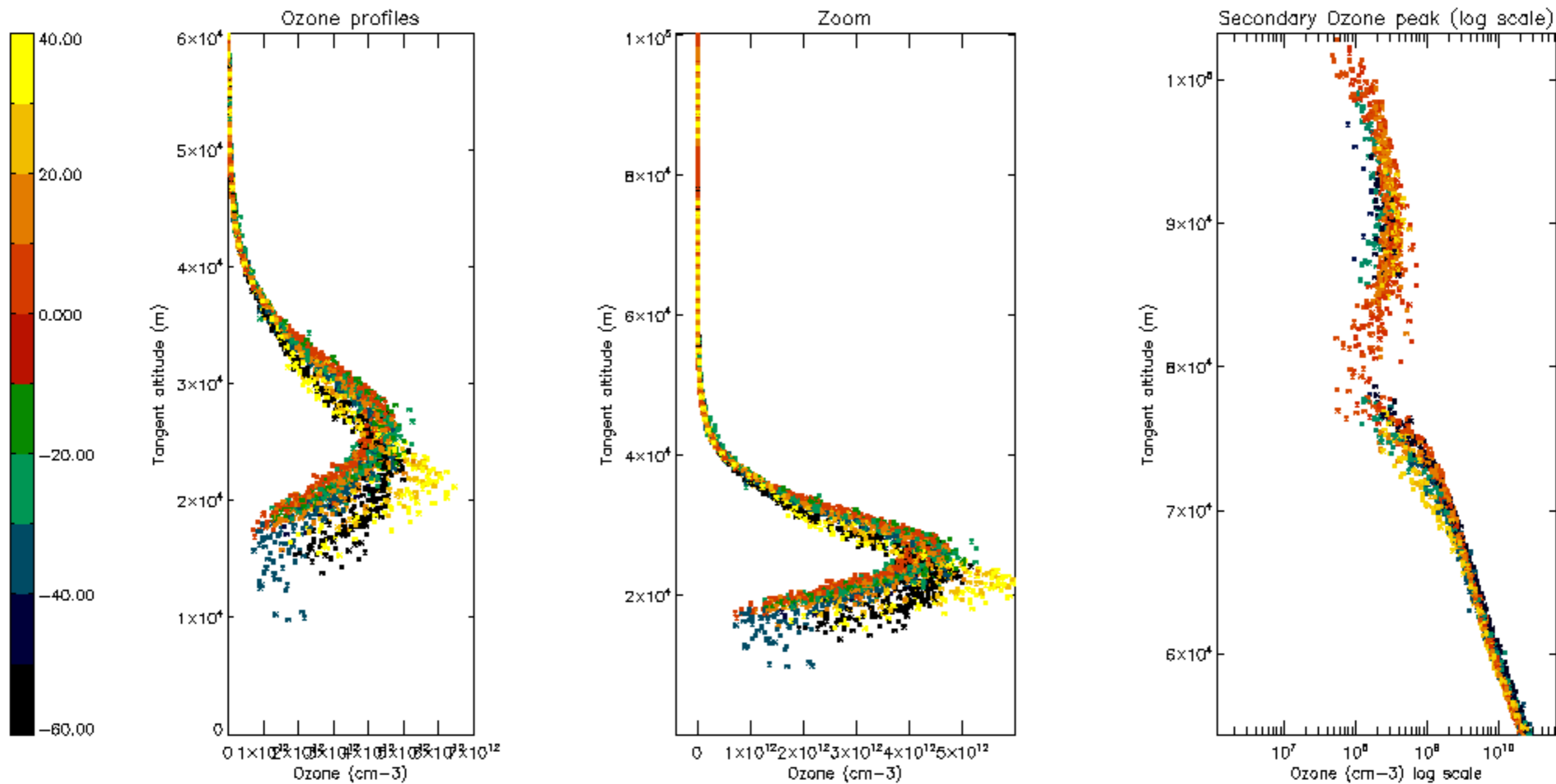
Percentage of star falling outside central band per profile



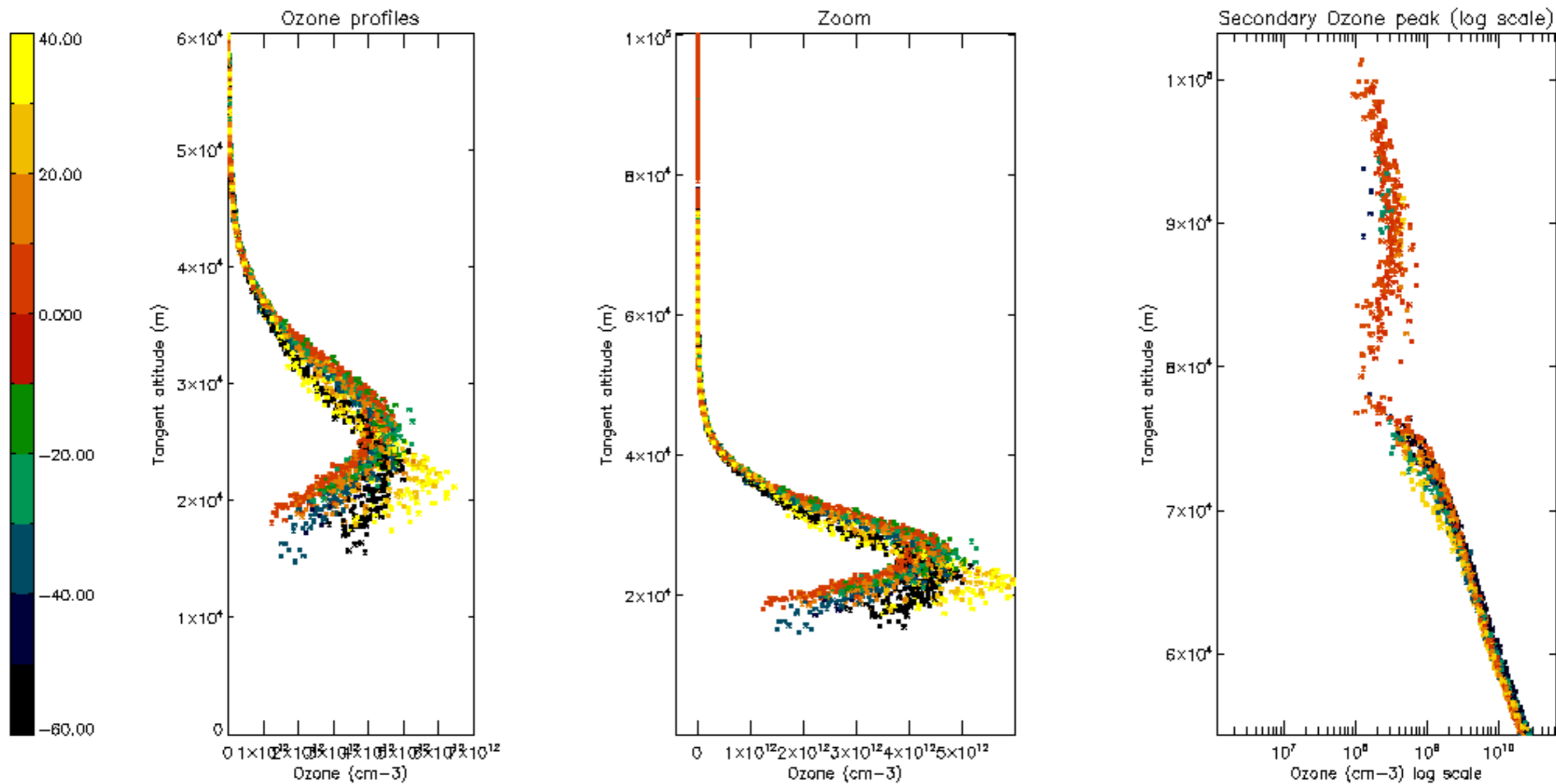
Percentage of saturation errors per profile

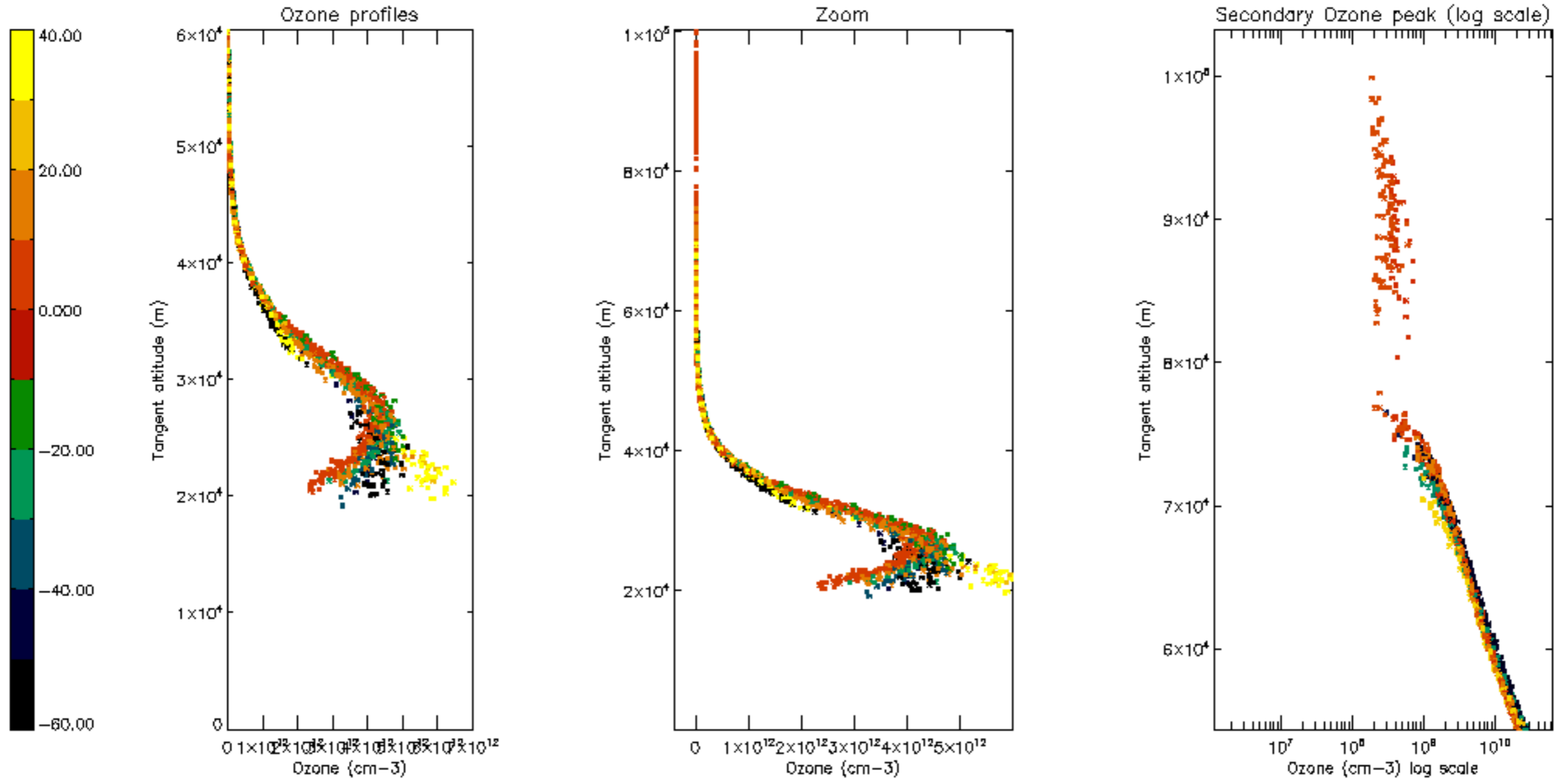


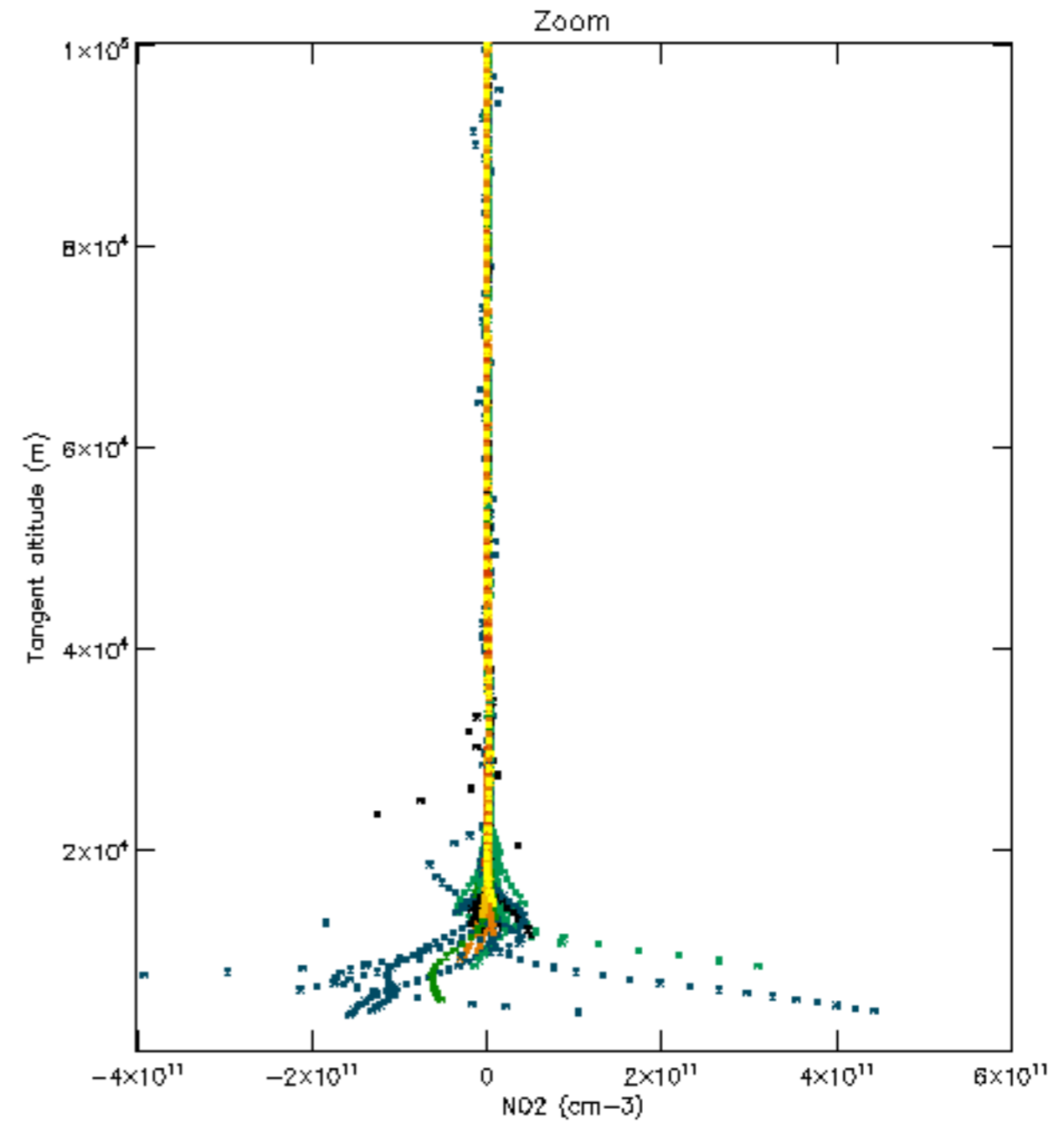
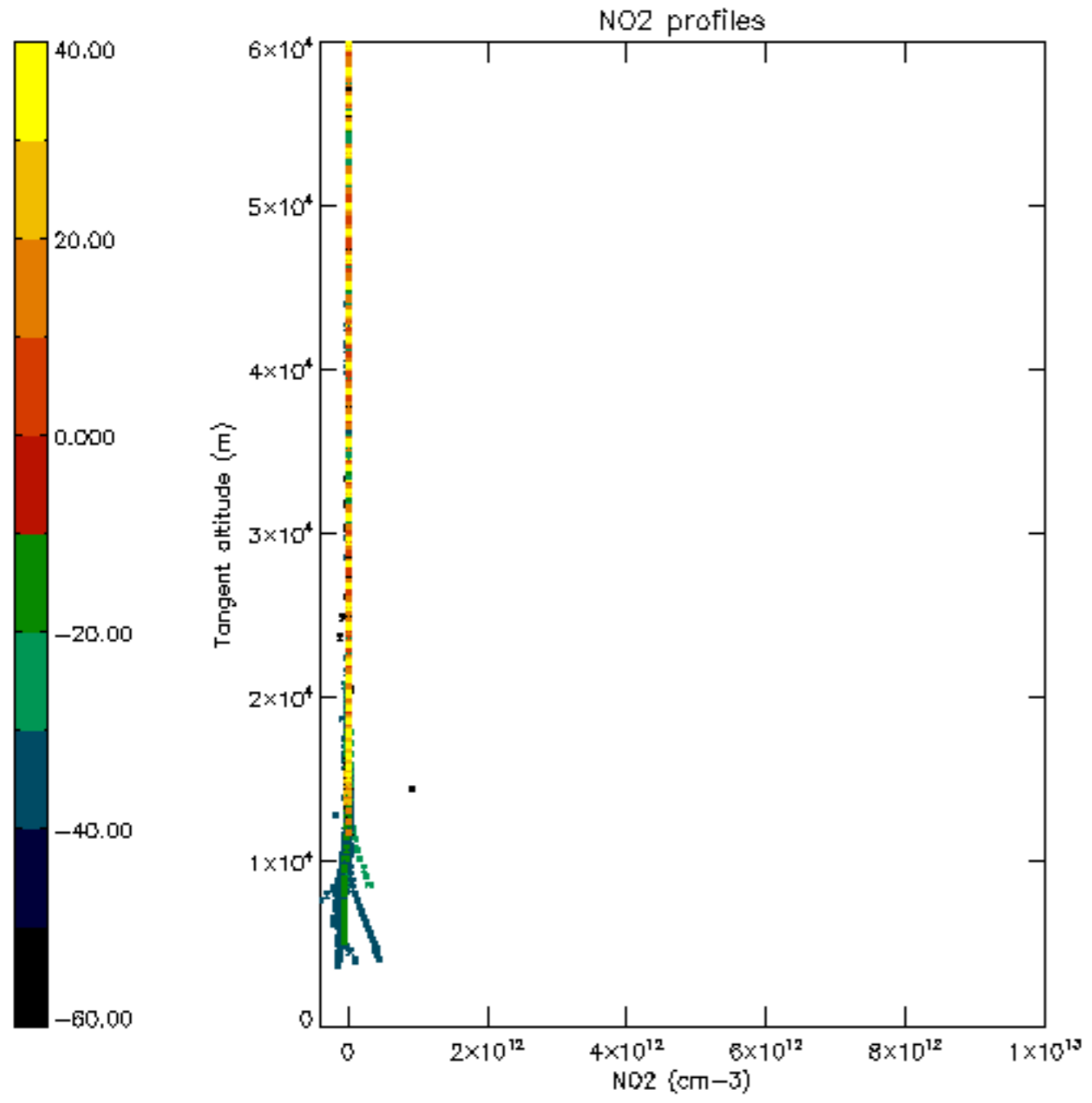


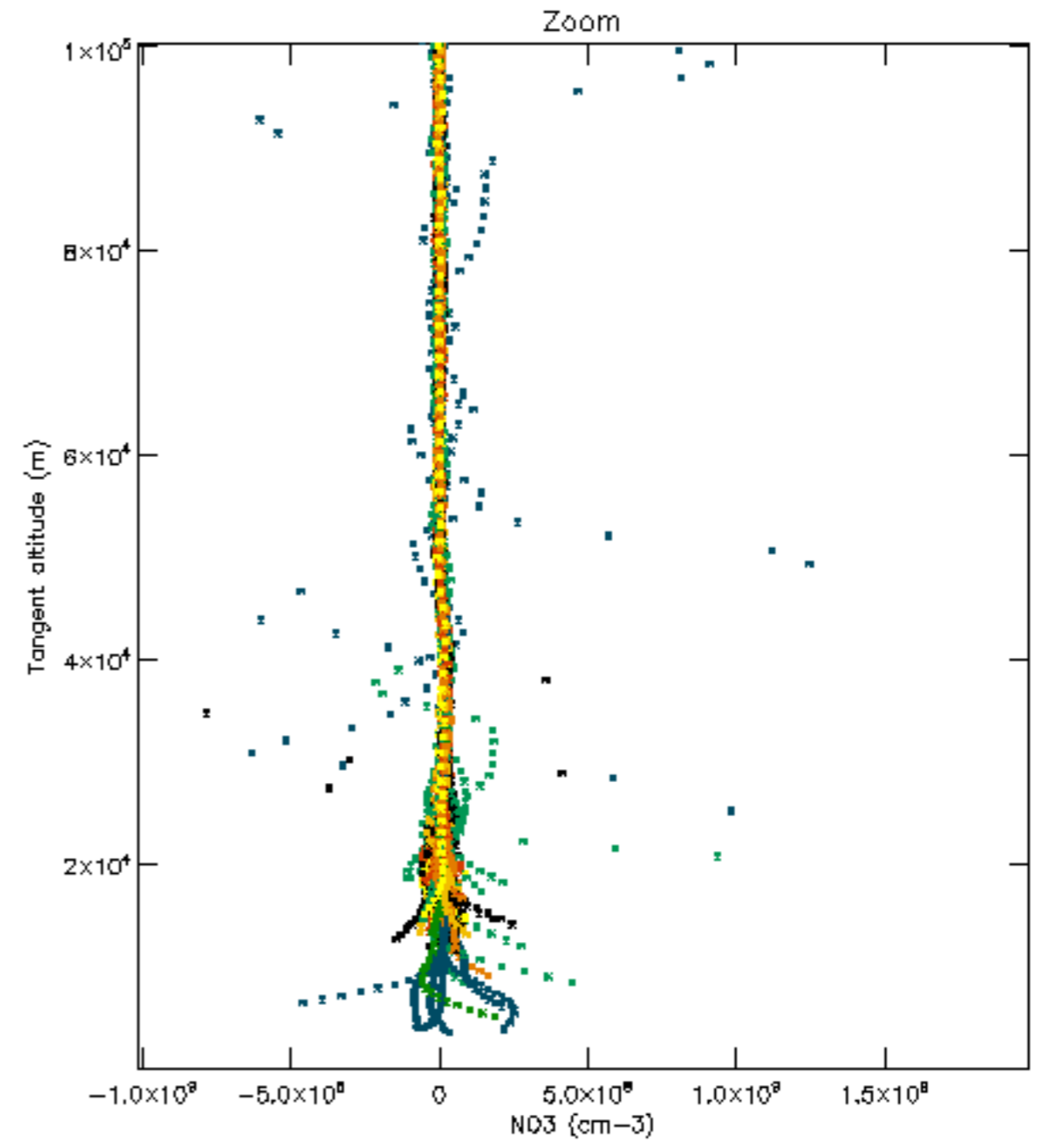
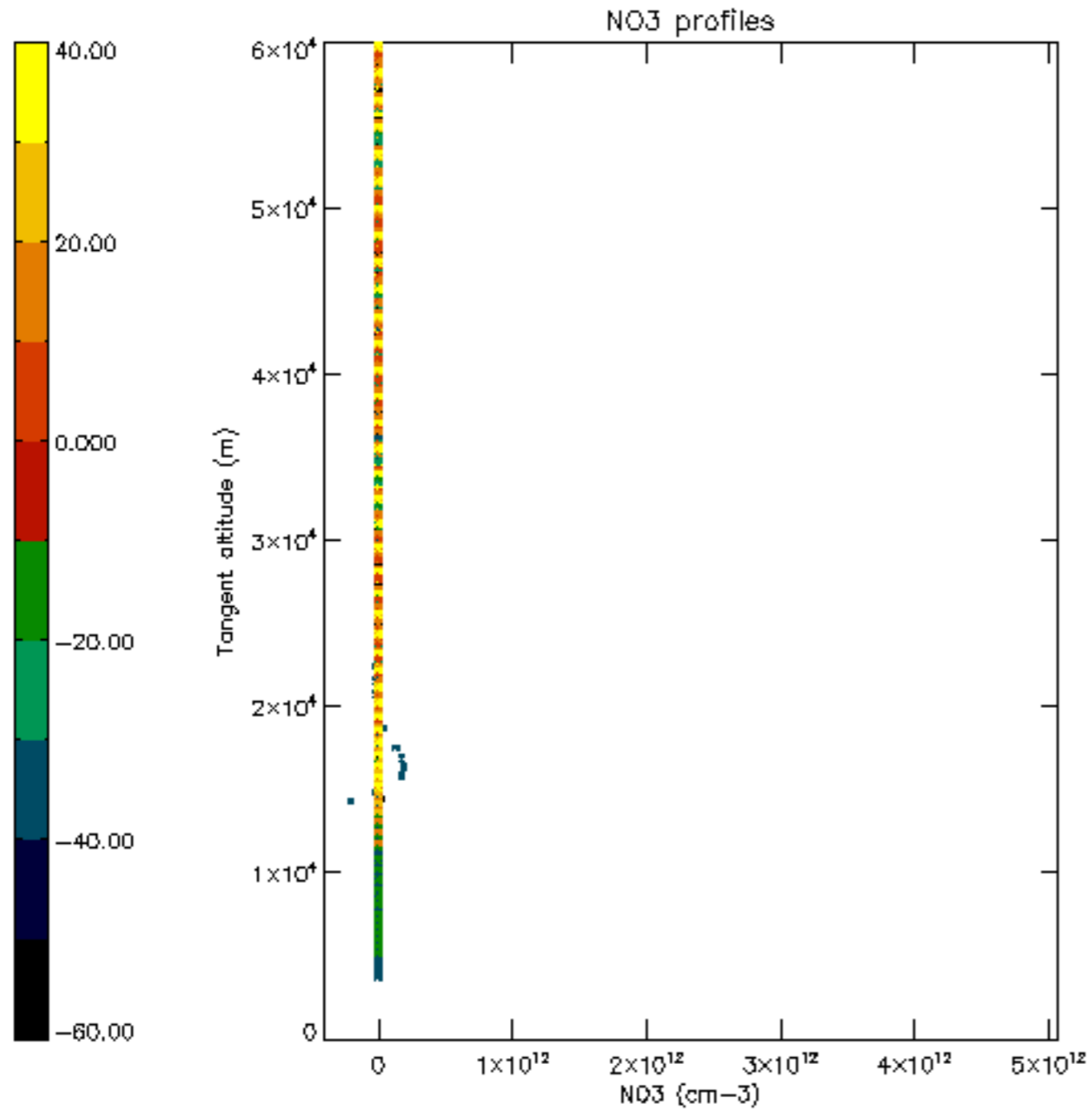


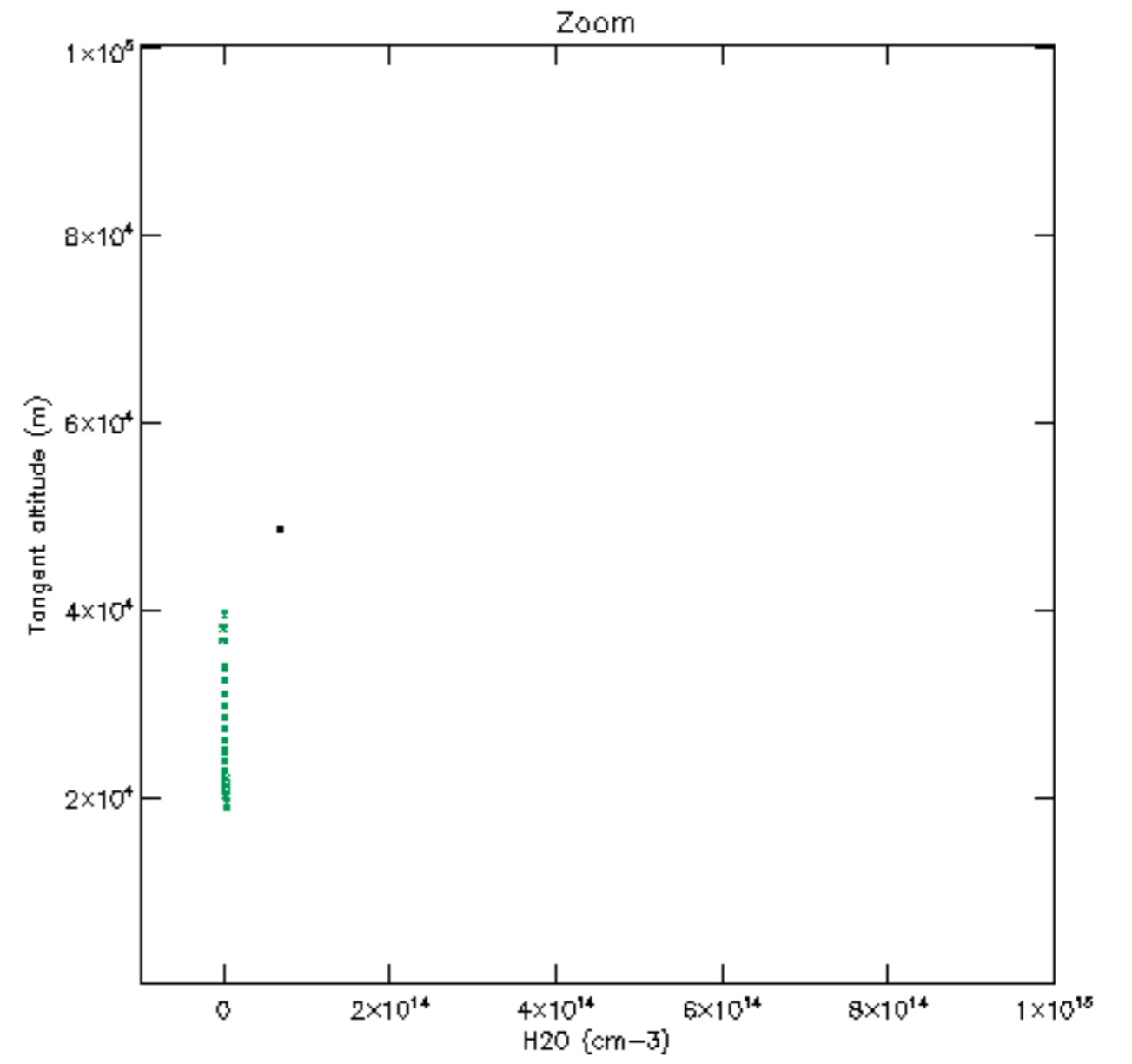
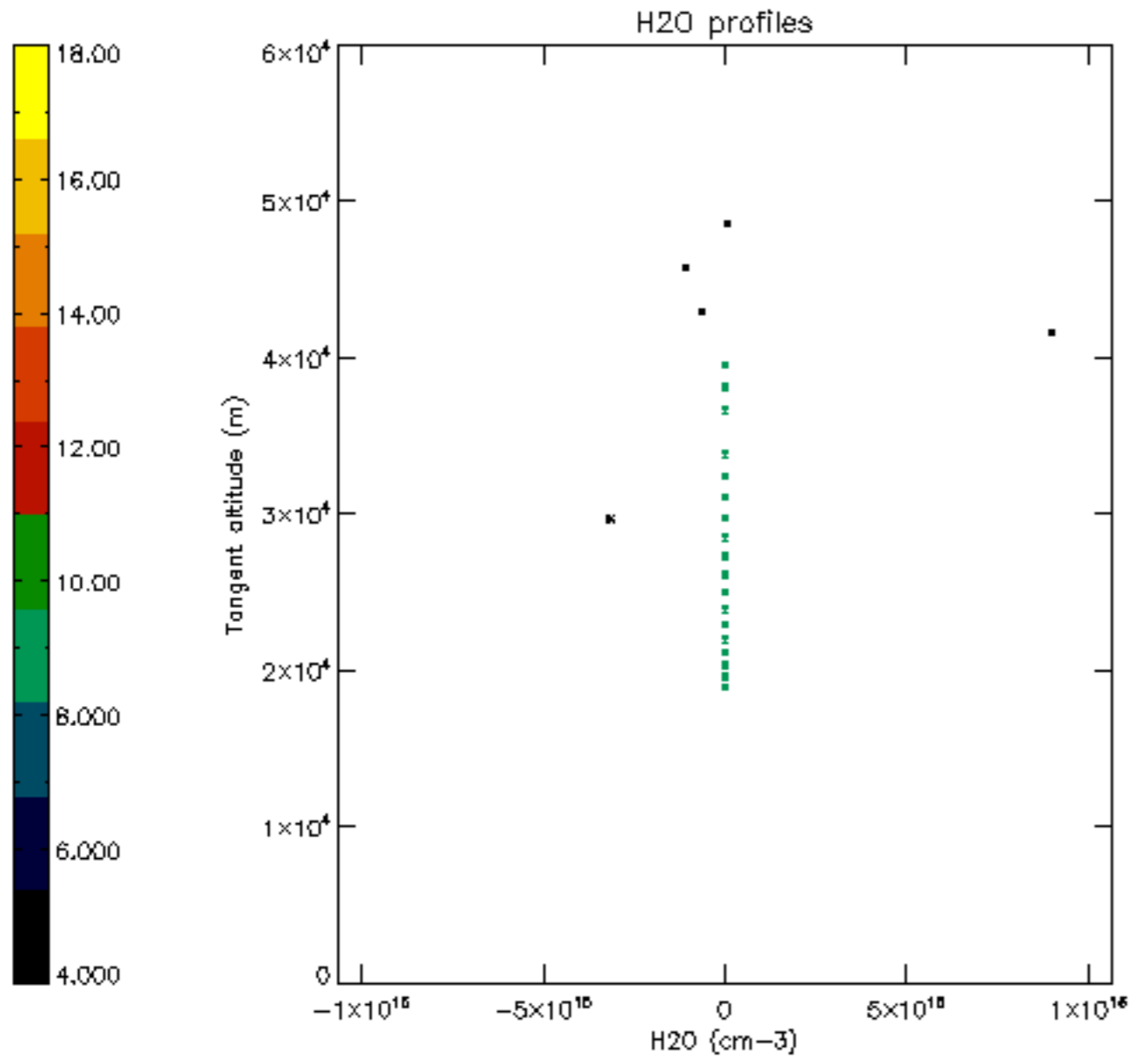


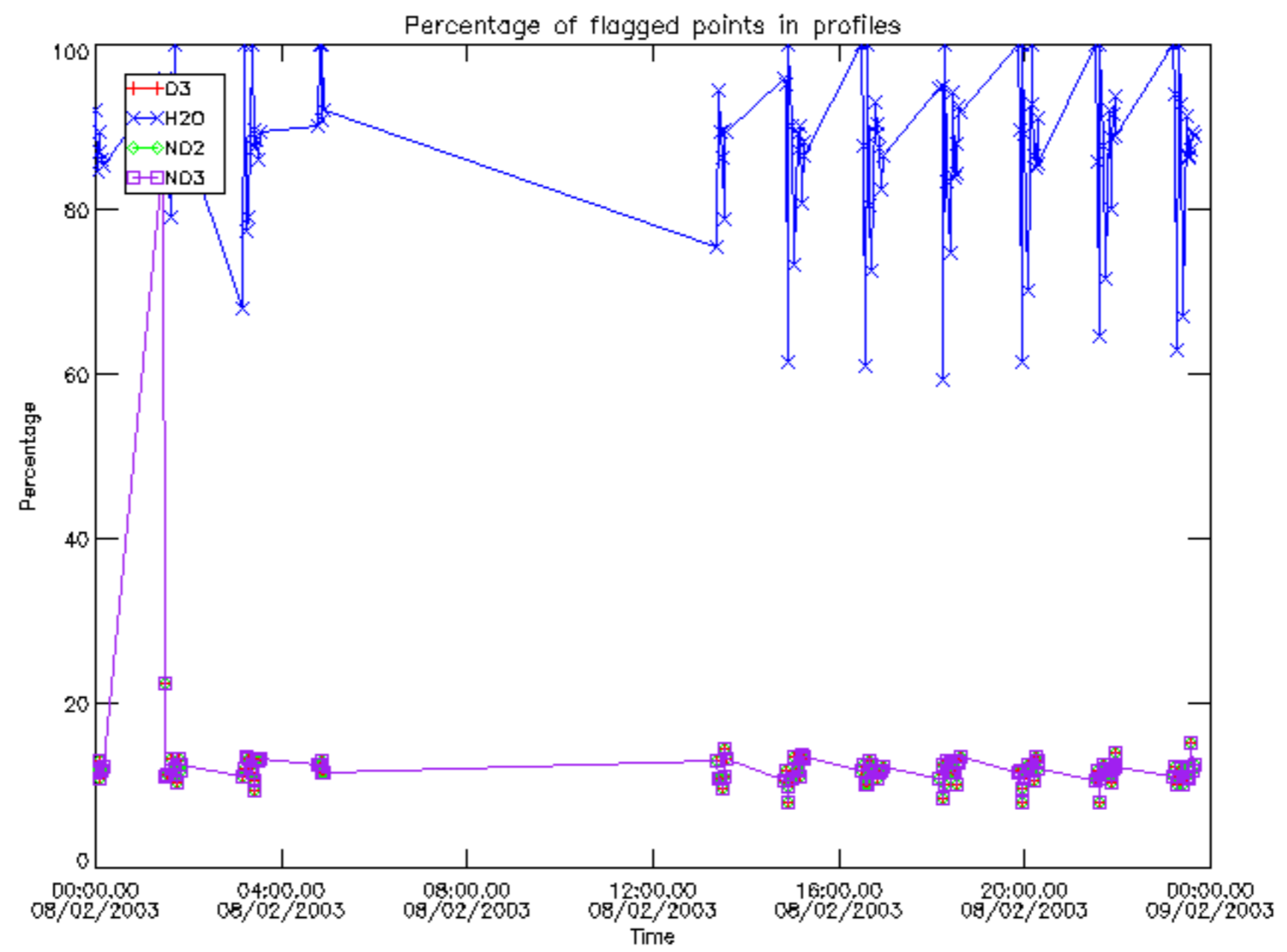




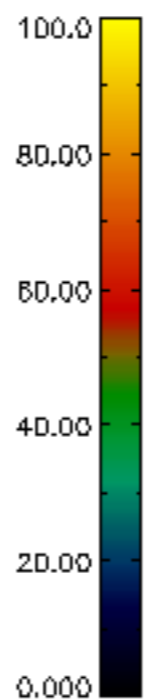
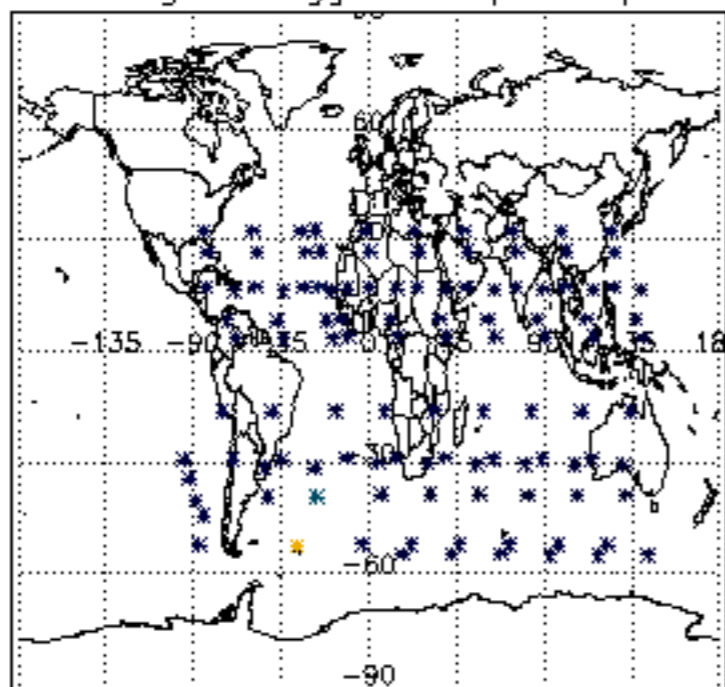




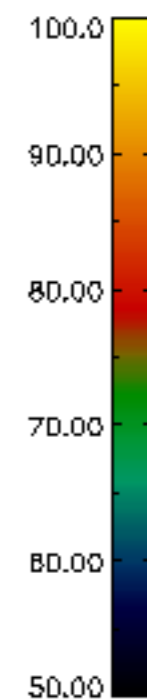
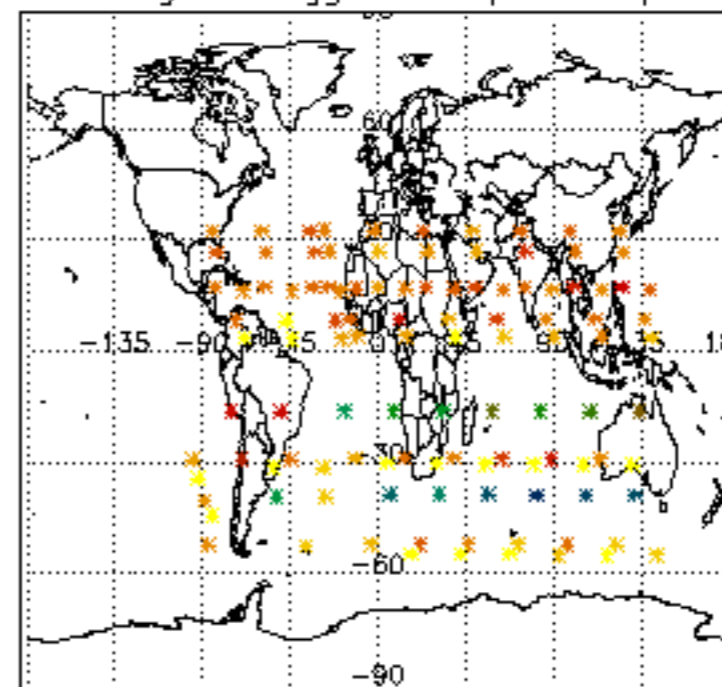




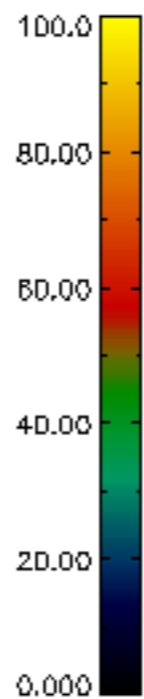
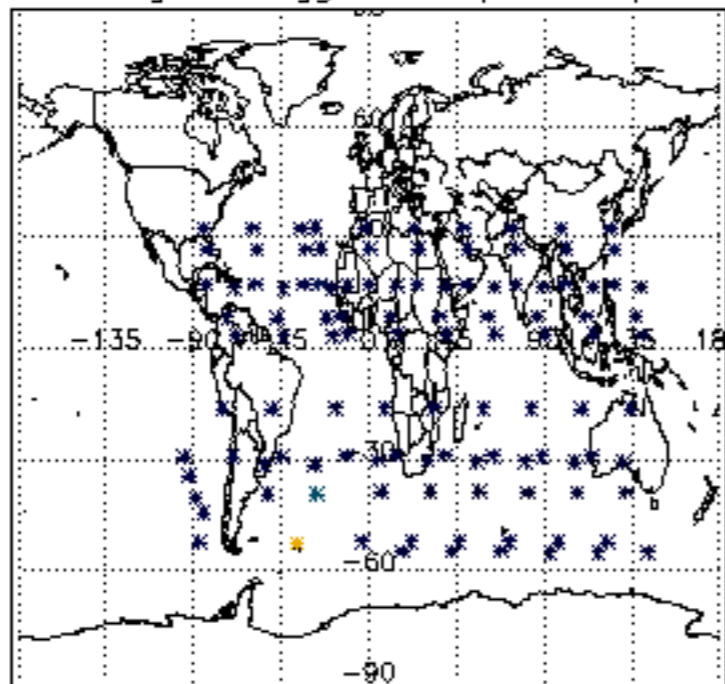
Percentage of flagged data per D3 profile



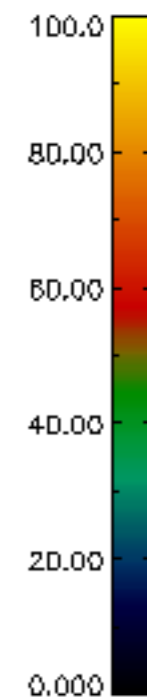
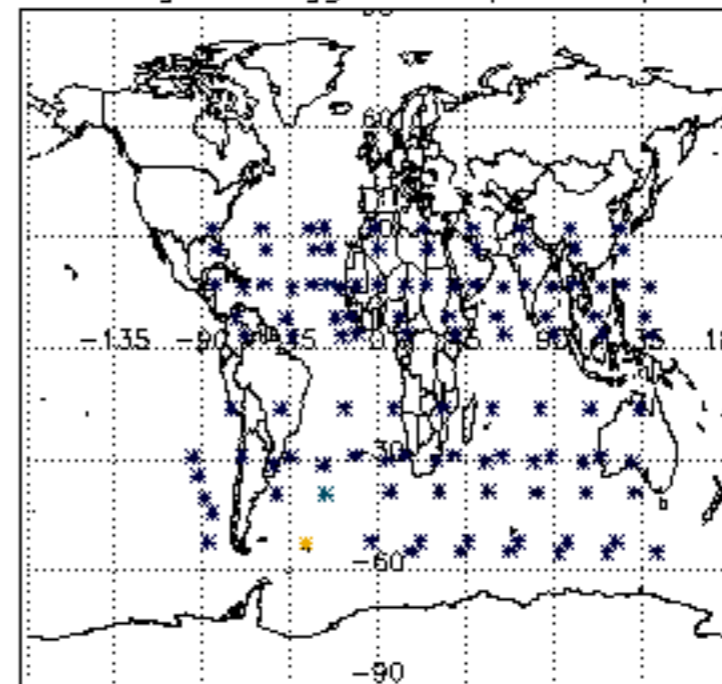
Percentage of flagged data per H2O profile

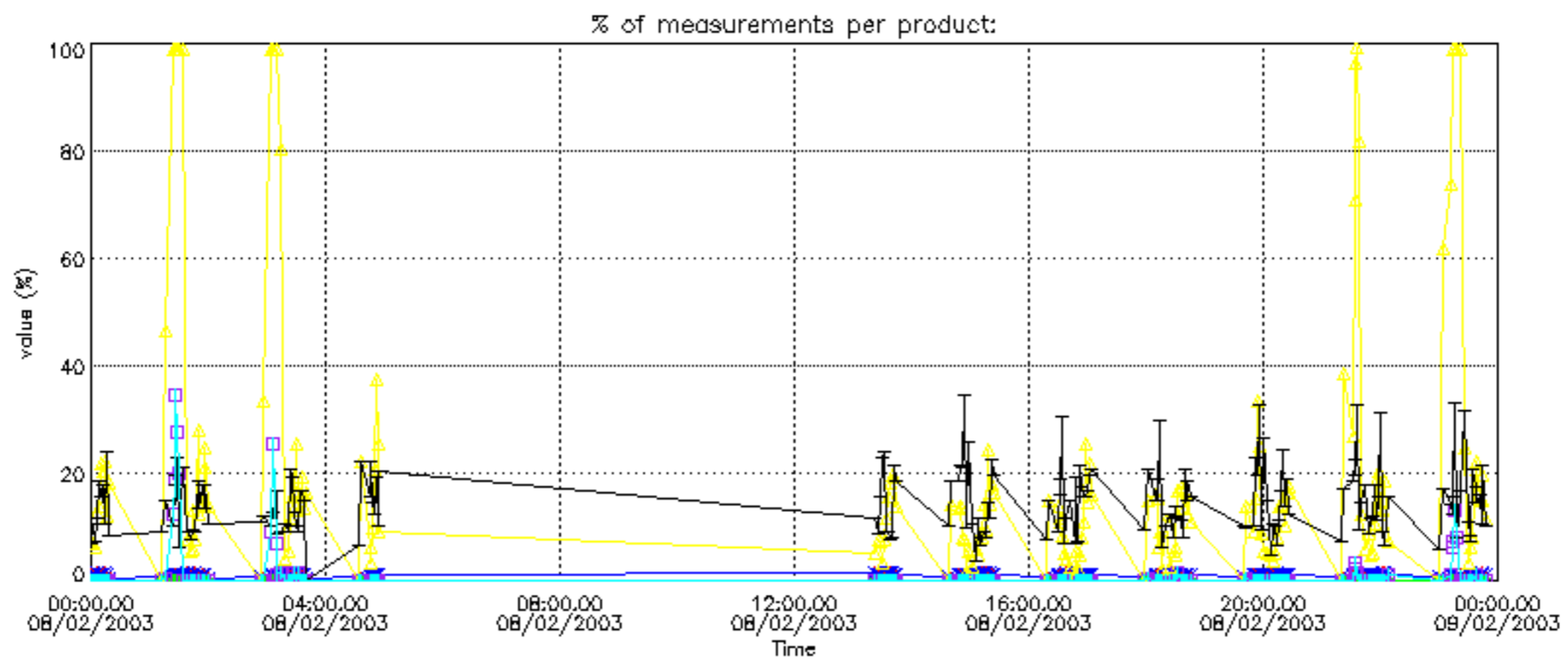
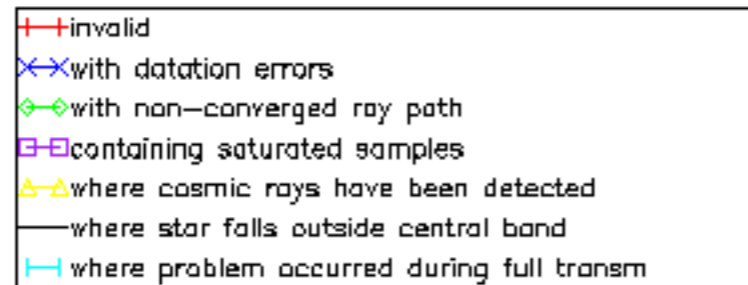


Percentage of flagged data per NO2 profile

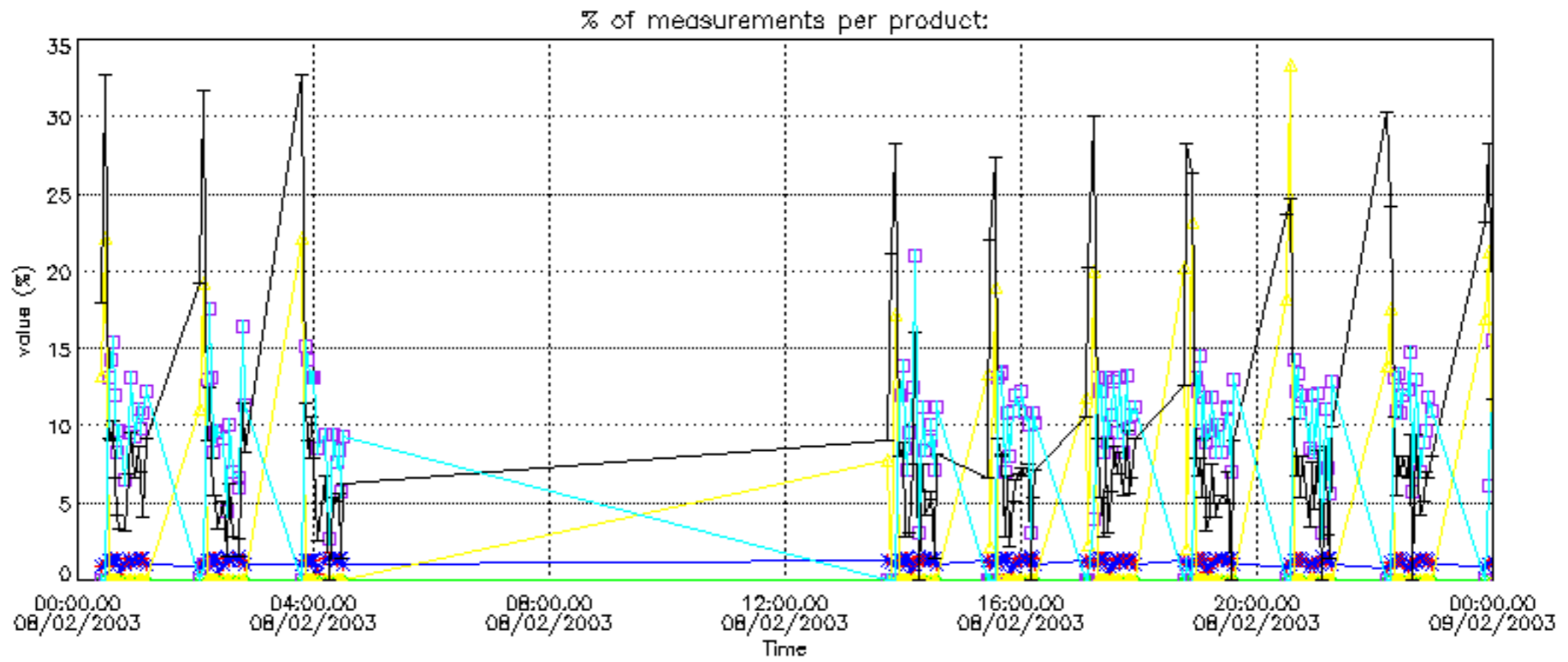


Percentage of flagged data per NO3 profile

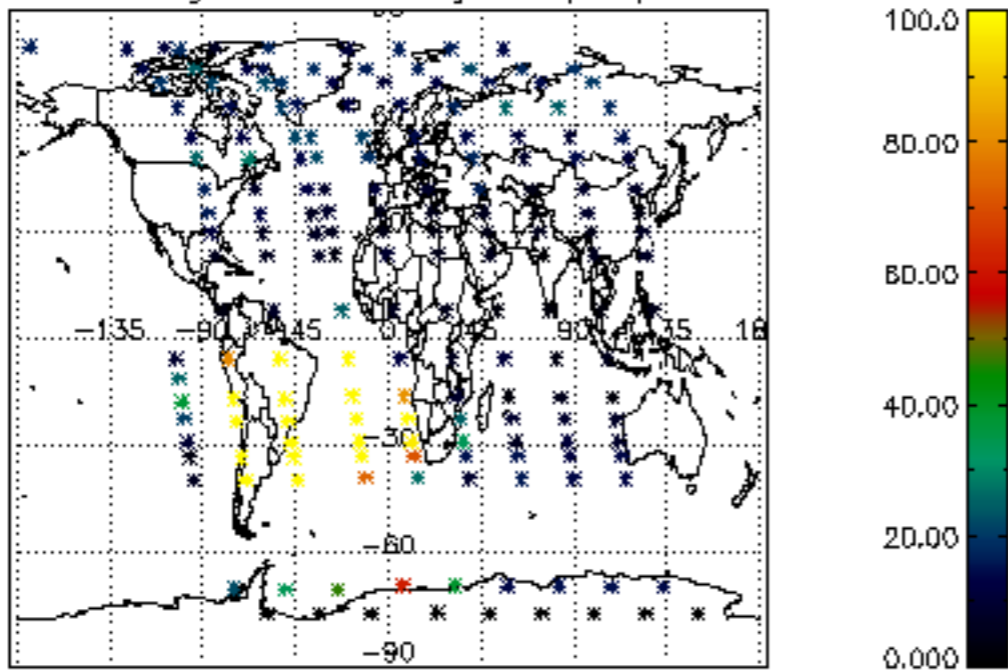




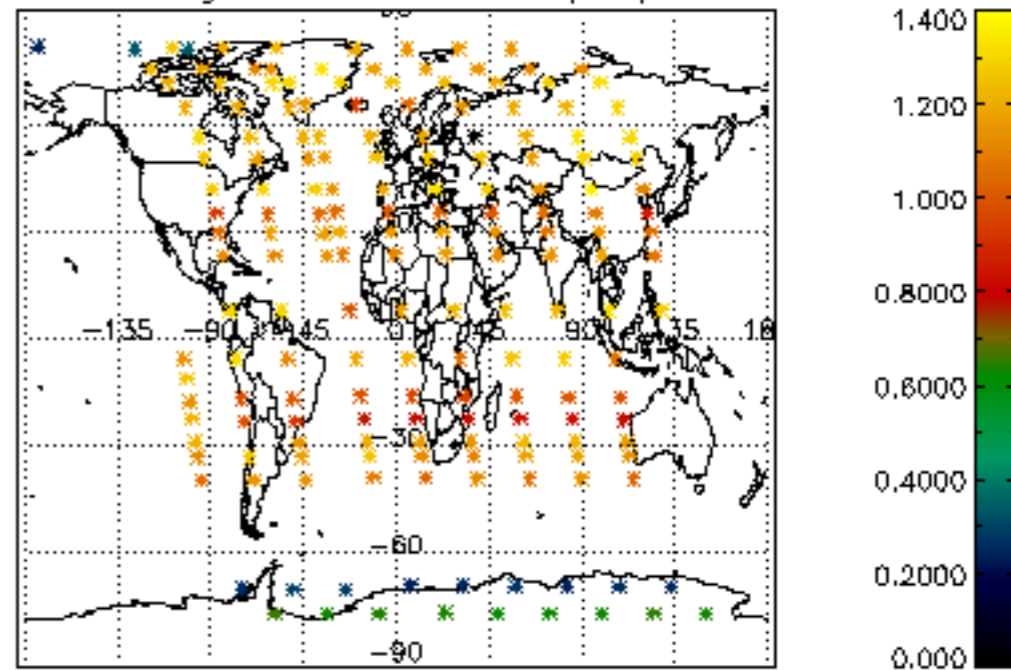




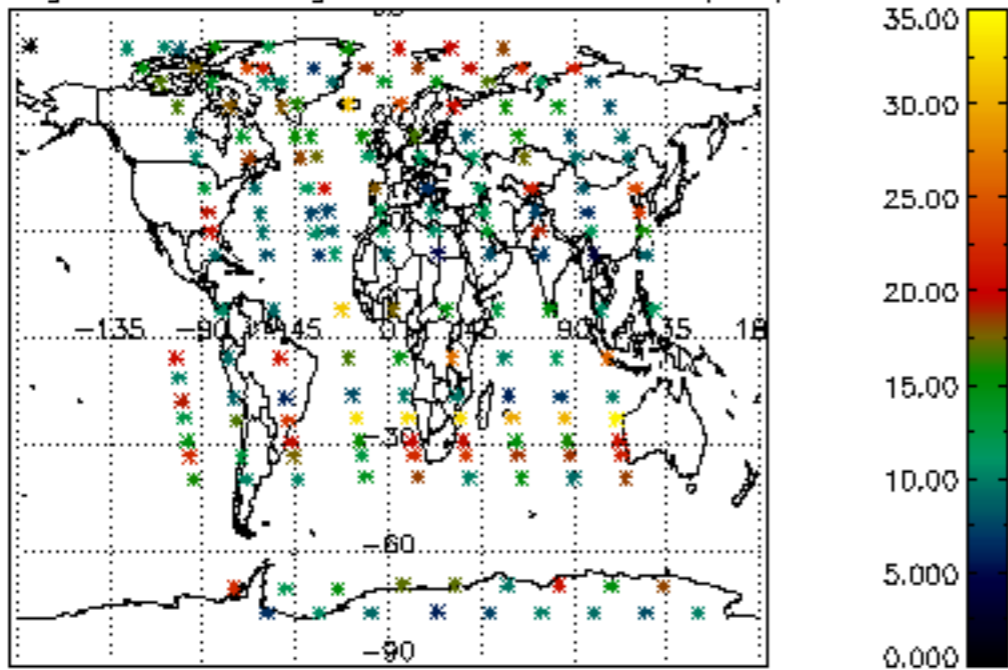
Percentage of cosmic ray hits per profile



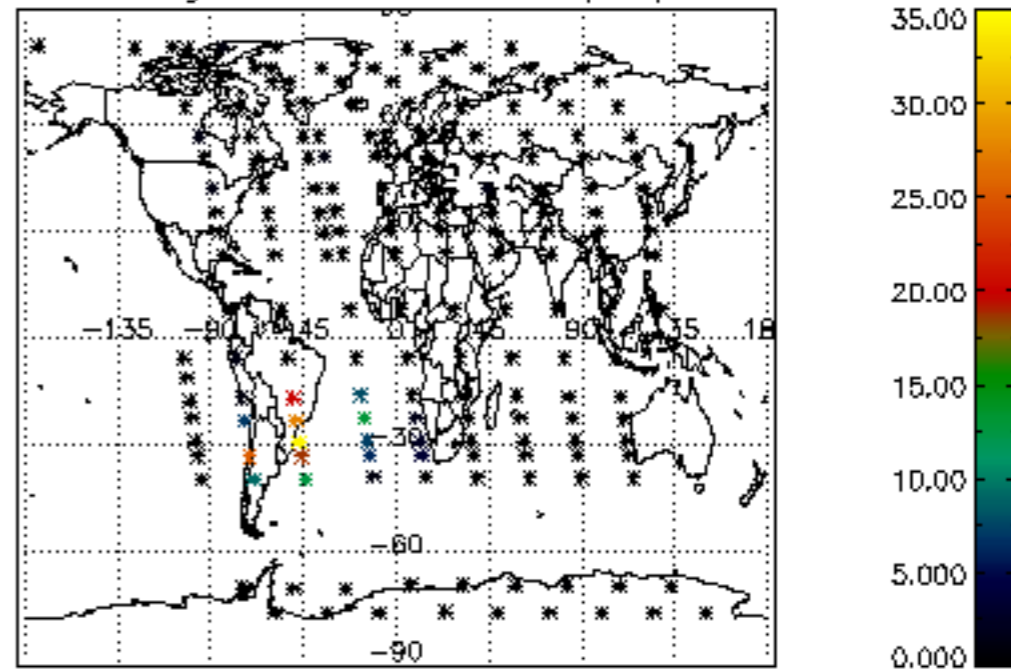
Percentage of datation errors per profile



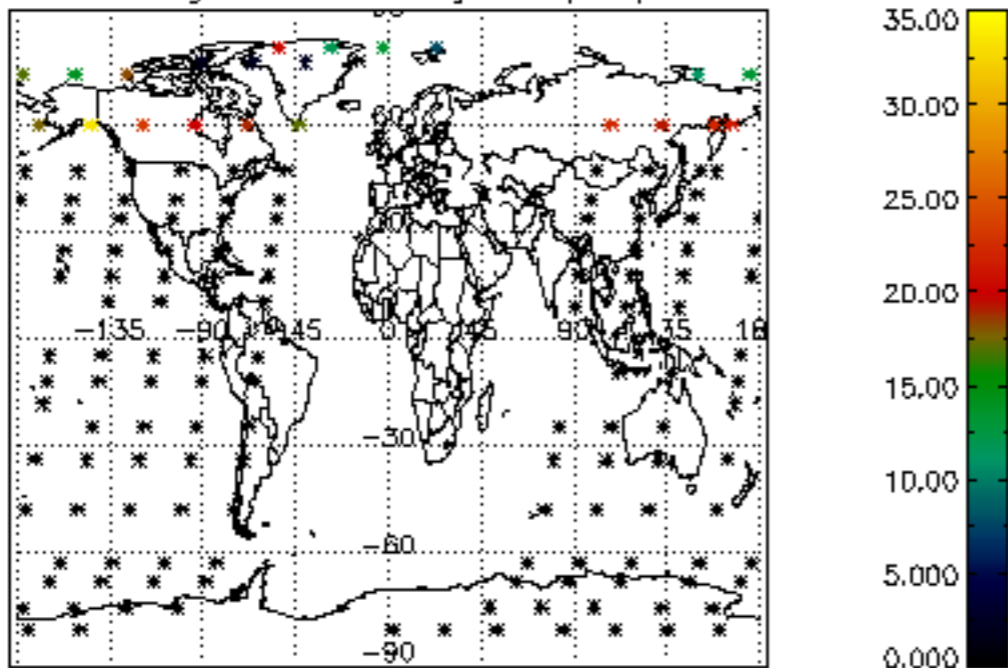
Percentage of star falling outside central band per profile



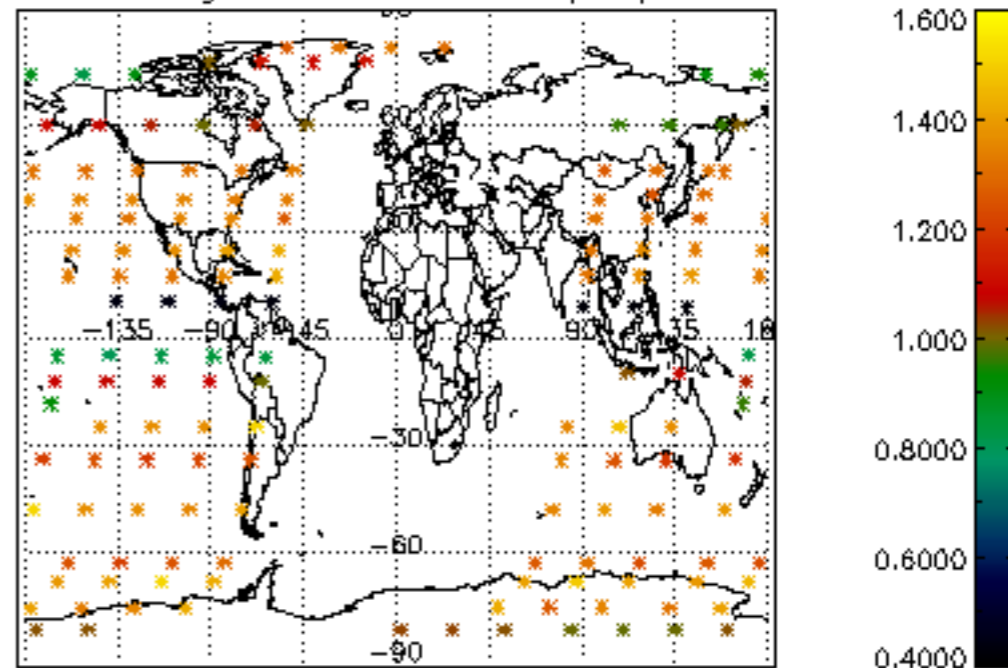
Percentage of saturation errors per profile



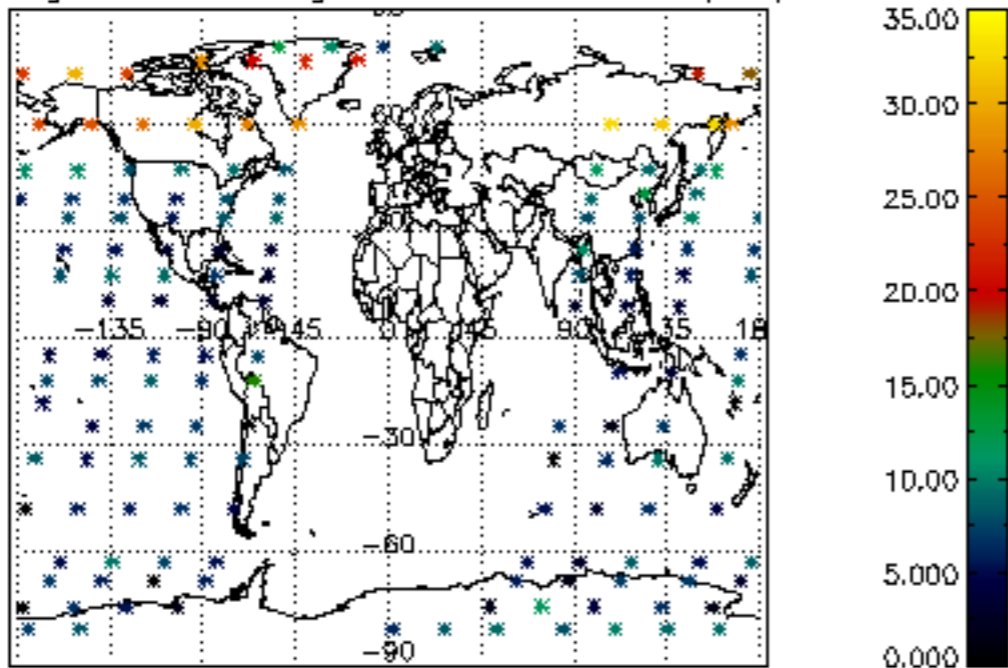
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

