

# 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 18:15:05
Data source version	GOMOS/6.01
Start time of products	26-01-2004 (26JAN2004 00:00:00)
Stop time of products	27-01-2004 (27JAN2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	449
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__2PRFIN20040126_000554_000000412023_00388_09961_1109.N1	26-JAN-2004 00:05:54	Bright	41.000	133	40Zet Her	2.8070	6000.0	82	9961	No
2	GOM_NL__2PRFIN20040126_000920_000000742023_00388_09961_1110.N1	26-JAN-2004 00:09:20	Bright	73.500	83		2.3780	11000.	147	9961	No
3	GOM_NL__2PRFIN20040126_001259_000000372023_00388_09961_1111.N1	26-JAN-2004 00:12:59	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	9961	No
4	GOM_NL__2PRFIN20040126_001605_000001972023_00388_09961_1112.N1	26-JAN-2004 00:16:05	Straylight	197.00	3	16Alp Boo	-0.050000	4250.0	394	9961	No
5	GOM_NL__2PRFIN20040126_002311_000000562023_00388_09961_1113.N1	26-JAN-2004 00:23:11	Dark	56.000	16	21Alp Sco	1.0200	3000.0	112	9961	No
6	GOM_NL__2PRFIN20040126_002438_000000482023_00388_09961_1114.N1	26-JAN-2004 00:24:38	Dark	47.500	75	26Eps Sco	2.2910	4250.0	95	9961	No
7	GOM_NL__2PRFIN20040126_002601_000000472023_00388_09961_1115.N1	26-JAN-2004 00:26:01	Dark	46.500	40	The Sco	1.8590	7100.0	93	9961	No
8	GOM_NL__2PRFIN20040126_003052_000000452023_00388_09961_1116.N1	26-JAN-2004 00:30:52	Dark	44.500	109	Bet Lup	2.6770	26000.	89	9961	No
9	GOM_NL__2PRFIN20040126_003220_000000452023_00389_09962_1086.N1	26-JAN-2004 00:32:20	Dark	45.000	78	Alp Lup	2.3040	28000.	90	9962	No
10	GOM_NL__2PRFIN20040126_003420_000000522023_00389_09962_1087.N1	26-JAN-2004 00:34:20	Dark	51.500	4	Alp1Cen	-0.010000	5800.0	103	9962	No
11	GOM_NL__2PRFIN20040126_003854_000000422023_00389_09962_1088.N1	26-JAN-2004 00:38:54	Dark	42.000	12	Alp1Cru	0.77500	30000.	84	9962	No
12	GOM_NL__2PRFIN20040126_004032_000000472023_00389_09962_1089.N1	26-JAN-2004 00:40:32	Dark	47.000	99	Del Cen	2.5750	26000.	94	9962	No
13	GOM_NL__2PRFIN20040126_004253_000000422023_00389_09962_1090.N1	26-JAN-2004 00:42:53	Dark	41.500	29	Bet Car	1.6720	10200.	83	9962	No
14	GOM_NL__2PRFIN20040126_004507_000000422023_00389_09962_1091.N1	26-JAN-2004 00:45:07	Dark	41.500	71	lot Car	2.2460	7700.0	83	9962	No
15	GOM_NL__2PRFIN20040126_004655_000000402023_00389_09962_1092.N1	26-JAN-2004 00:46:55	Dark	40.000	46	Del Vel	1.9540	10600.	80	9962	No
16	GOM_NL__2PRFIN20040126_004920_000000522023_00389_09962_1093.N1	26-JAN-2004 00:49:20	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	9962	No
17	GOM_NL__2PRFIN20040126_005136_000000432023_00389_09962_1094.N1	26-JAN-2004 00:51:36	Straylight	42.500	70	Zet Pup	2.2460	39000.	85	9962	No
18	GOM_NL__2PRFIN20040126_005303_000000432023_00389_09962_1095.N1	26-JAN-2004 00:53:03	Straylight	43.000	117	Pi Pup	2.7060	3800.0	86	9962	No
19	GOM_NL__2PRFIN20040126_005533_000000432023_00389_09962_1096.N1	26-JAN-2004 00:55:33	Straylight	43.000	23	21Eps CMa	1.5020	26000.	86	9962	No
20	GOM_NL__2PRFIN20040126_005656_000000412023_00389_09962_1097.N1	26-JAN-2004 00:56:56	Straylight	40.500	179	24Omi2CMa	3.0320	24000.	81	9962	No
21	GOM_NL__2PRFIN20040126_005906_000000462023_00389_09962_1098.N1	26-JAN-2004 00:59:06	Straylight	45.500	1	9Alp CMa	-1.4400	11000.	91	9962	No
22	GOM_NL__2PRFIN20040126_010112_000000692023_00389_09962_1099.N1	26-JAN-2004 01:01:12	Straylight	68.500	48	30Alp Hya	1.9770	4100.0	137	9962	No
23	GOM_NL__2PRFIN20040126_010508_000000562023_00389_09962_1100.N1	26-JAN-2004 01:05:08	Twilight_stray	56.000	8	10Alp CMi	0.40000	6500.0	112	9962	No
24	GOM_NL__2PRFIN20040126_010822_000000432023_00389_09962_1101.N1	26-JAN-2004 01:08:22	Bright	43.000	44	24Gam Gem	1.9280	11000.	86	9962	No
25	GOM_NL__2PRFIN20040126_011011_000000402023_00389_09962_1102.N1	26-JAN-2004 01:10:11	Bright	39.500	151	13Mu Gem	2.8900	3000.0	79	9962	No
26	GOM_NL__2PRFIN20040126_011208_000000452023_00389_09962_1103.N1	26-JAN-2004 01:12:08	Bright	44.500	17	78Bet Gem	1.1610	4500.0	89	9962	No
27	GOM_NL__2PRFIN20040126_011425_000000392023_00389_09962_1104.N1	26-JAN-2004 01:14:25	Bright	38.500	107	37The Aur	2.6490	11000.	77	9962	No
28	GOM_NL__2PRFIN20040126_011632_000000402023_00389_09962_1105.N1	26-JAN-2004 01:16:32	Bright	39.500	42	34Bet Aur	1.9000	10200.	79	9962	No
29	GOM_NL__2PRFIN20040126_011911_000001232023_00389_09962_1106.N1	26-JAN-2004 01:19:11	Bright	122.50	51	41Gam1Leo	2.0100	4500.0	245	9962	No
30	GOM_NL__2PRFIN20040126_012745_000000462023_00389_09962_1107.N1	26-JAN-2004 01:27:45	Bright	46.000	36	50Alp UMa	1.8000	6300.0	92	9962	No
31	GOM_NL__2PRFIN20040126_013047_000000582023_00389_09962_1108.N1	26-JAN-2004 01:30:47	Bright	58.000	87	64Gam UMa	2.4330	11000.	116	9962	No
32	GOM_NL__2PRFIN20040126_013339_000000552023_00389_09962_1109.N1	26-JAN-2004 01:33:39	Bright	55.000	32	77Eps UMa	1.7630	11000.	110	9962	No
33	GOM_NL__2PRFIN20040126_014630_000000412023_00389_09962_1110.N1	26-JAN-2004 01:46:30	Bright	41.000	133	40Zet Her	2.8070	6000.0	82	9962	No
34	GOM_NL__2PRFIN20040126_014956_000000772023_00389_09962_1111.N1	26-JAN-2004 01:49:56	Bright	76.500	83		2.3780	11000.	153	9962	No
35	GOM_NL__2PRFIN20040126_015335_000000372023_00389_09962_1112.N1	26-JAN-2004 01:53:35	Bright	36.500	126	60Bet Oph	2.7700	4250.0	73	9962	No
36	GOM_NL__2PRFIN20040126_015643_000001982023_00389_09962_1113.N1	26-JAN-2004 01:56:43	Straylight	198.00	3	16Alp Boo	-0.050000	4250.0	396	9962	No
37	GOM_NL__2PRFIN20040126_020349_000000502023_00389_09962_1114.N1	26-JAN-2004 02:03:49	Dark	50.000	16	21Alp Sco	1.0200	3000.0	100	9962	No
38	GOM_NL__2PRFIN20040126_020513_000000452023_00389_09962_1115.N1	26-JAN-2004 02:05:13	Dark	44.500	75	26Eps Sco	2.2910	4250.0	89	9962	No
39	GOM_NL__2PRFIN20040126_020637_000000422023_00389_09962_1116.N1	26-JAN-2004 02:06:37	Dark	42.000	40	The Sco	1.8590	7100.0	84	9962	No
40	GOM_NL__2PRFIN20040126_020833_000000382023_00389_09962_1117.N1	26-JAN-2004 02:08:33	Dark	37.500	147	Alp Ara	2.8770	26000.	75	9962	No
41	GOM_NL__2PRFIN20040126_021127_000000482023_00389_09962_1118.N1	26-JAN-2004 02:11:27	Dark	47.500	109	Bet Lup	2.6770	26000.	95	9962	No
42	GOM_NL__2PRFIN20040126_021257_000000462023_00390_09963_1087.N1	26-JAN-2004 02:12:57	Dark	45.500	78	Alp Lup	2.3040	28000.	91	9963	No











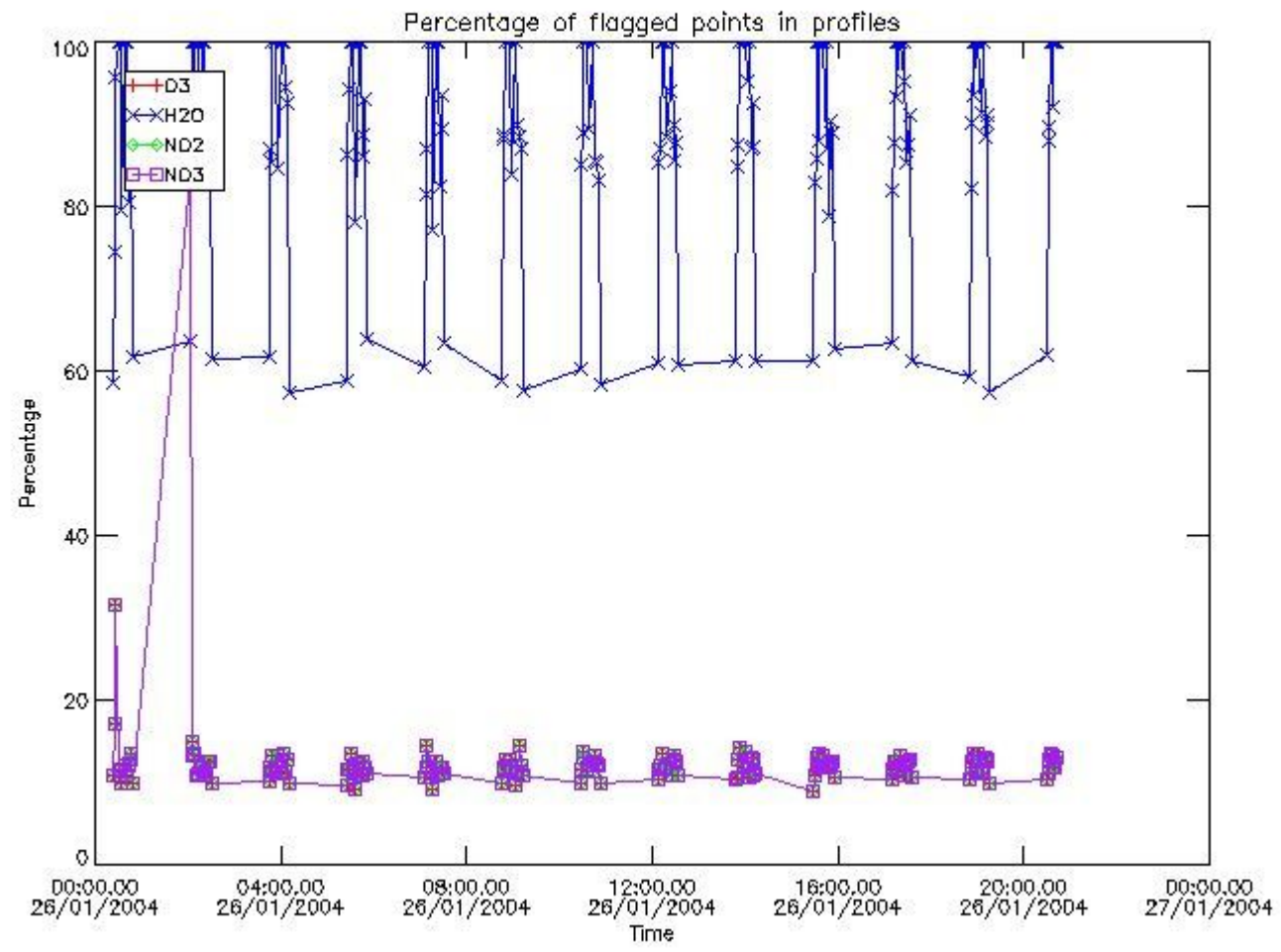






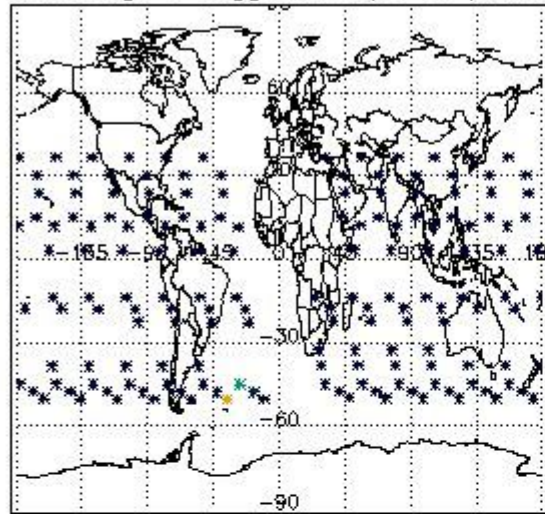
the MPH set to "0") are used.

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

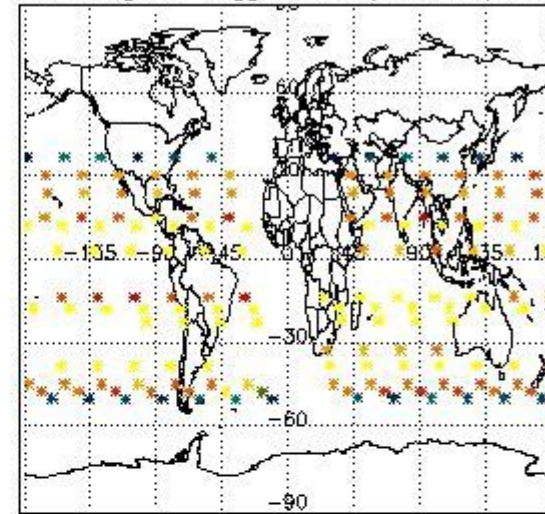


### 3.2 Plot quality information per product (world map)

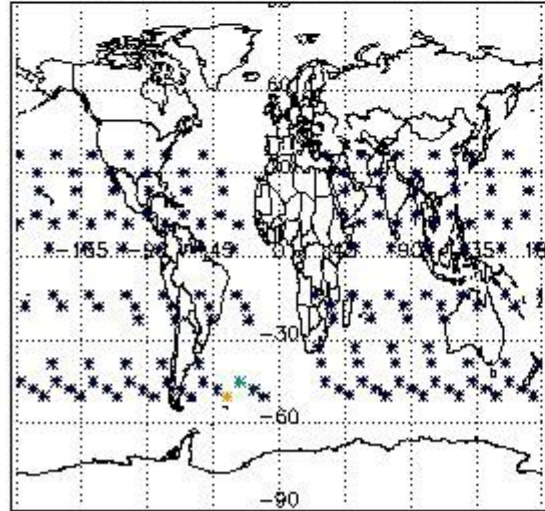
Percentage of flagged data per O3 profile



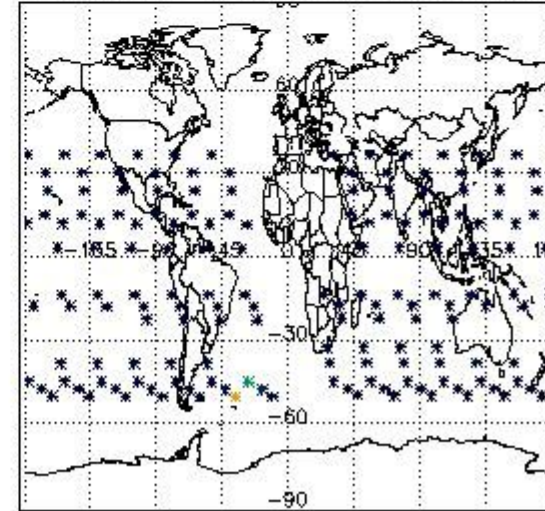
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

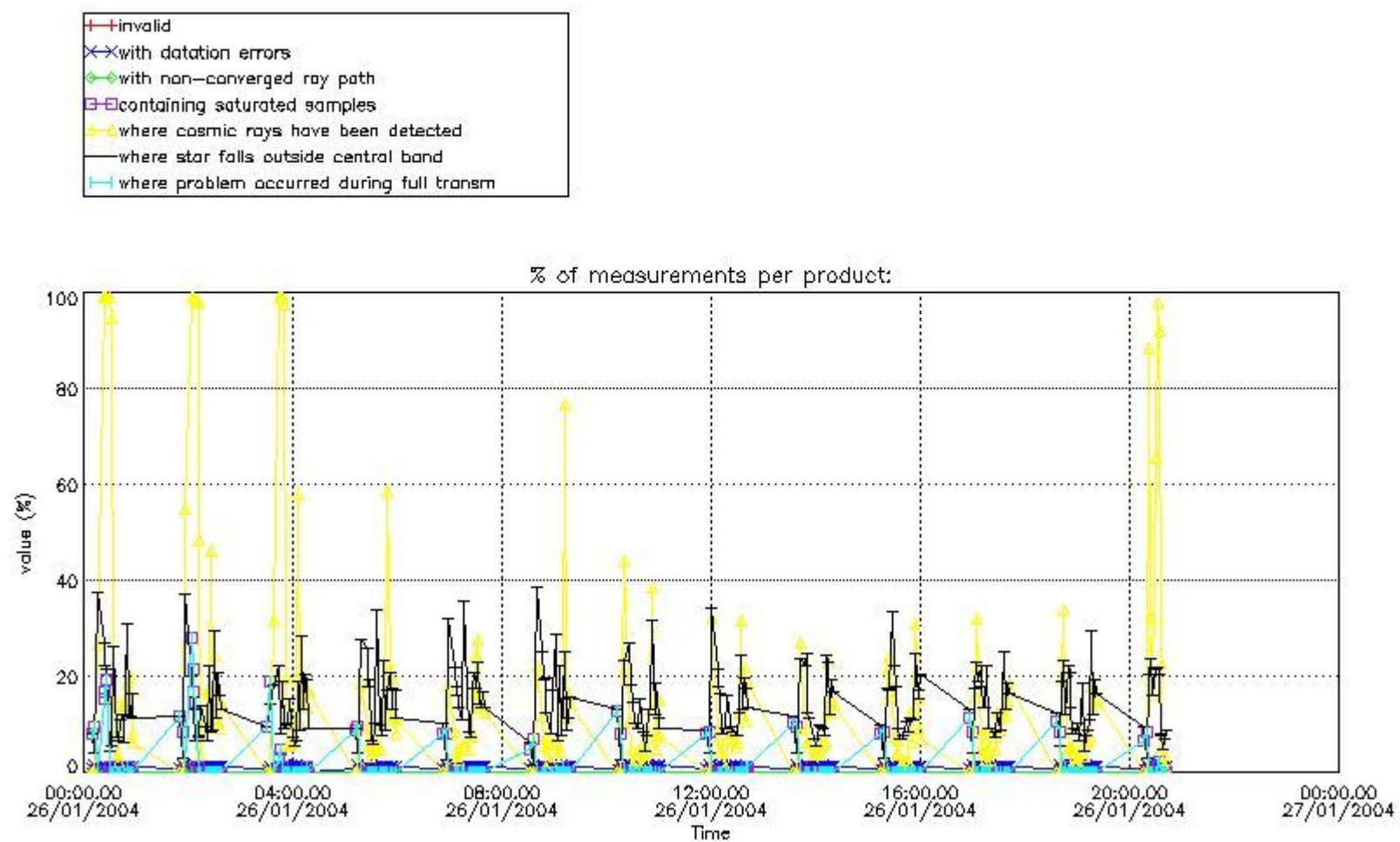


#### 4. Level 1 quality information per product

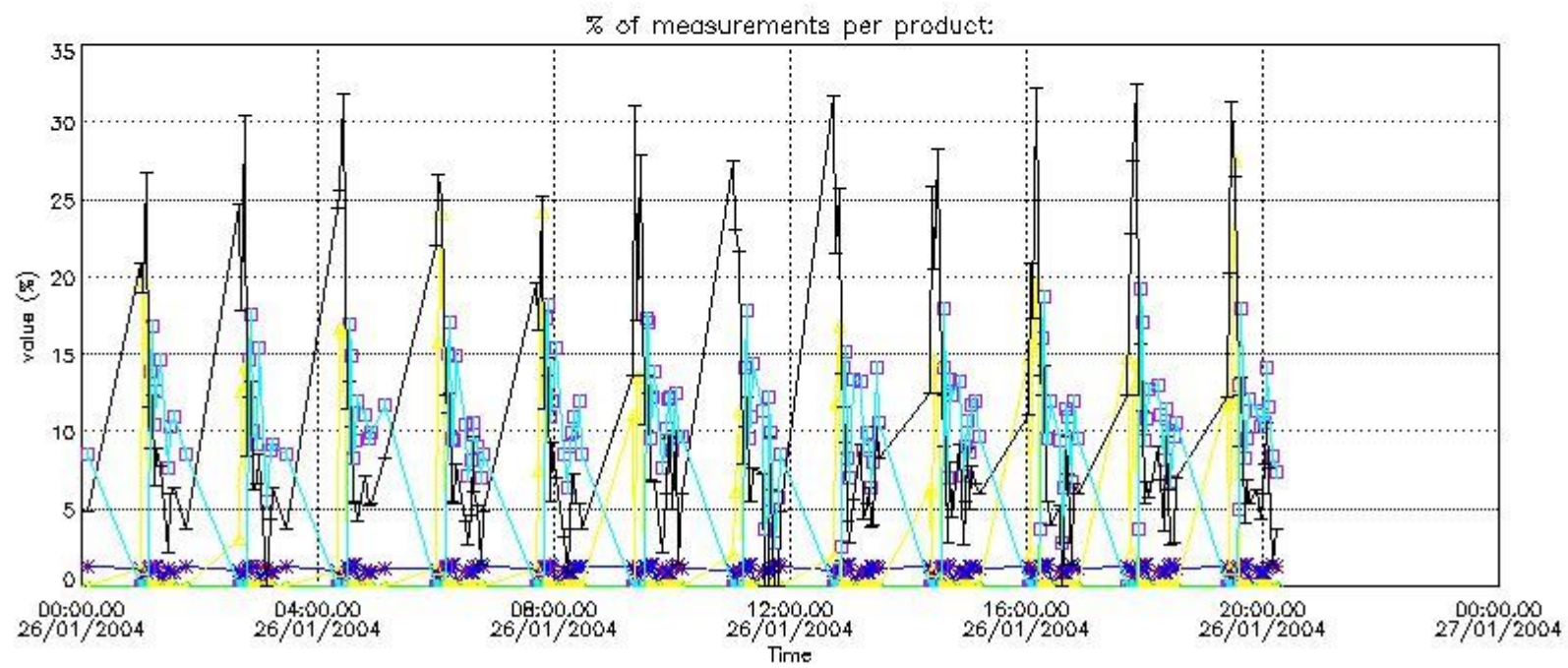
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

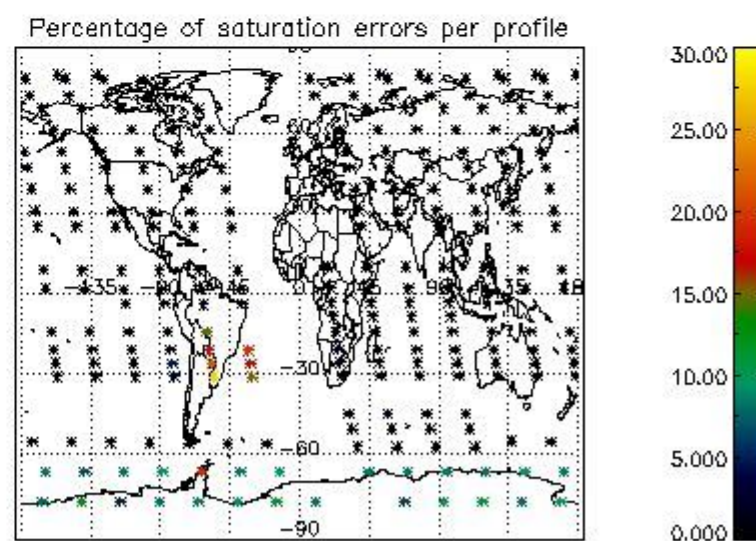
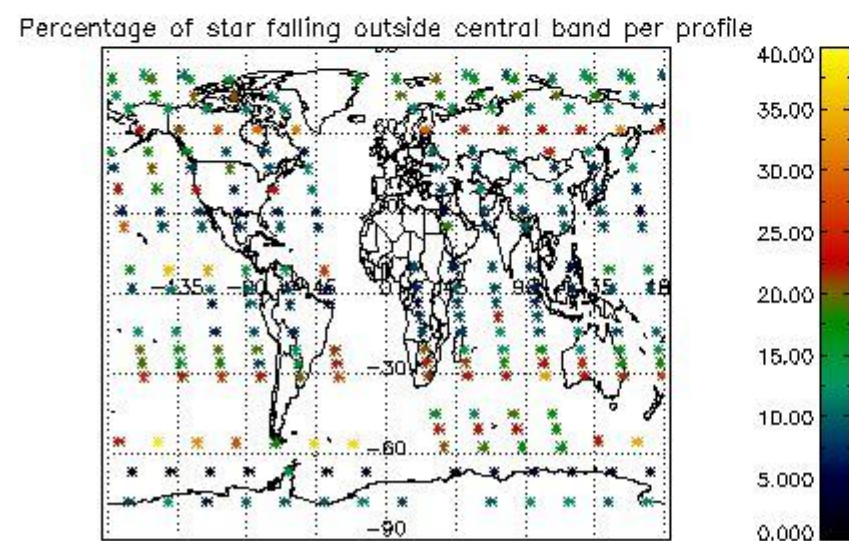
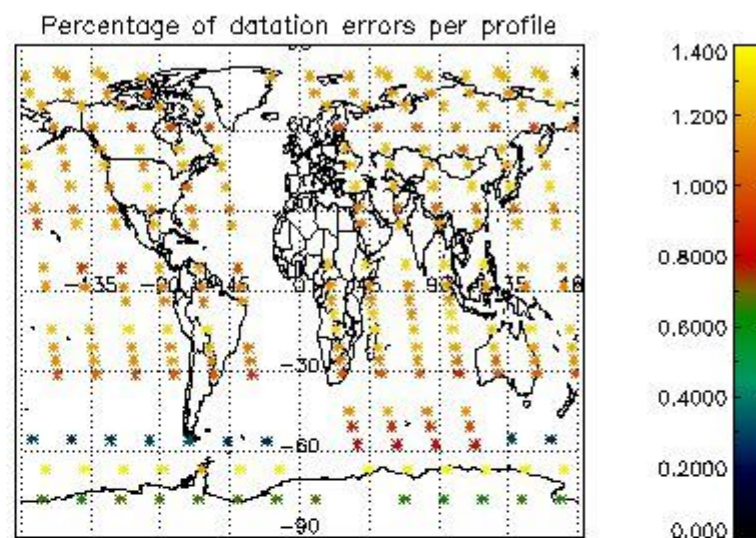
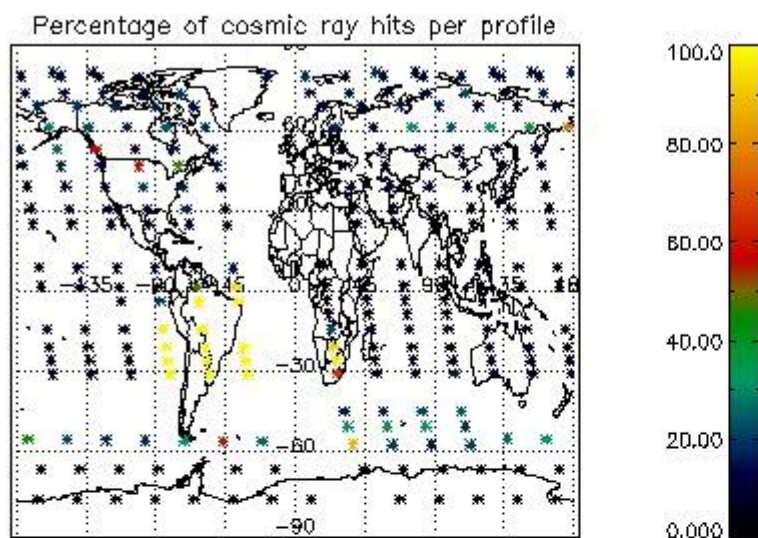


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

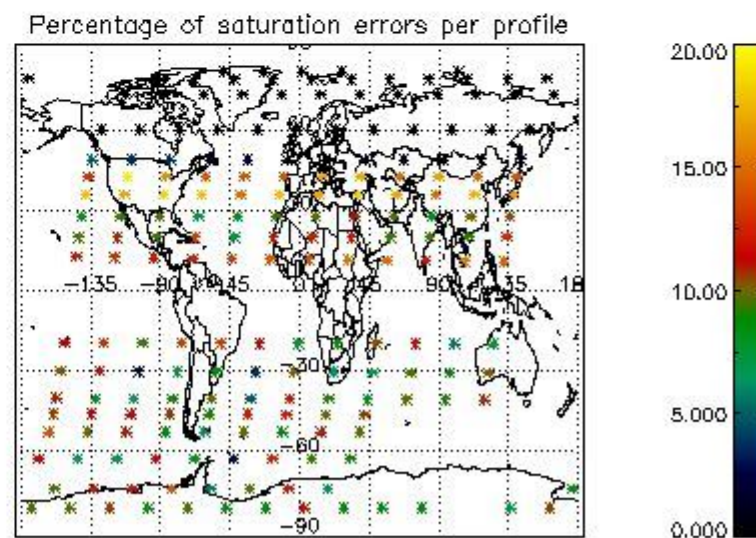
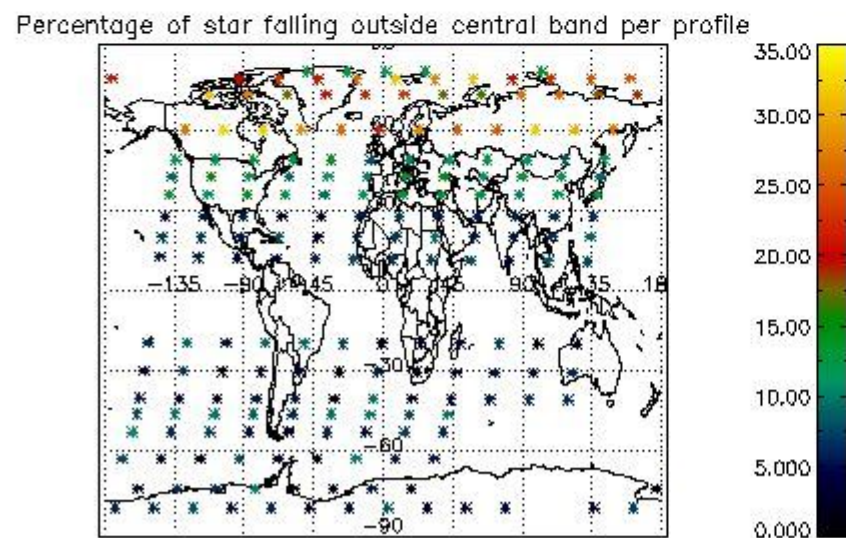
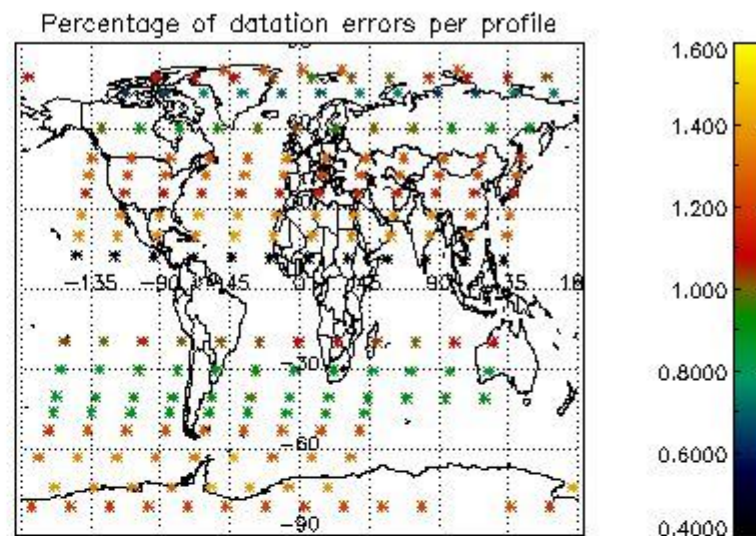
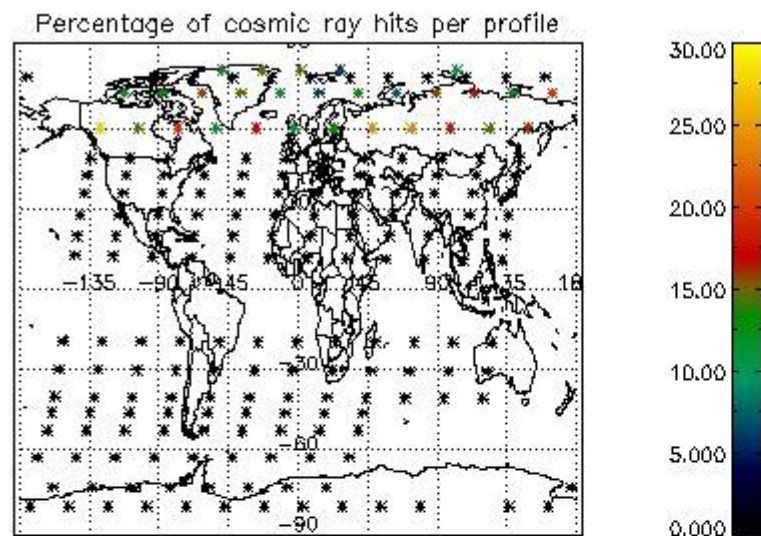


*4.2 Plot quality information per product coming from level 1b processing (world map)*

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



4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/o3\_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

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

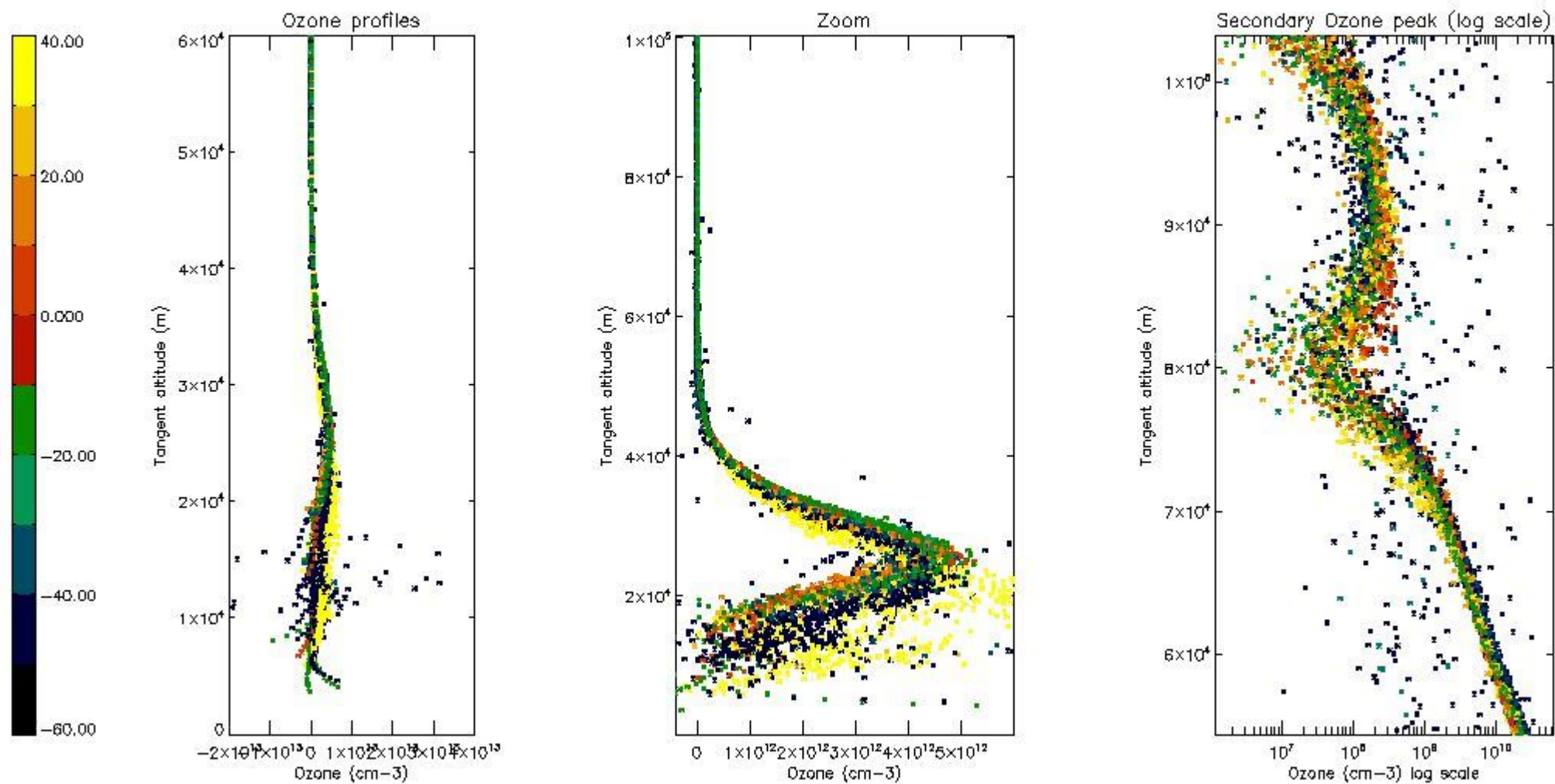
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	31
STD < 20	18

STD < 10	15
STD < 5	10

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

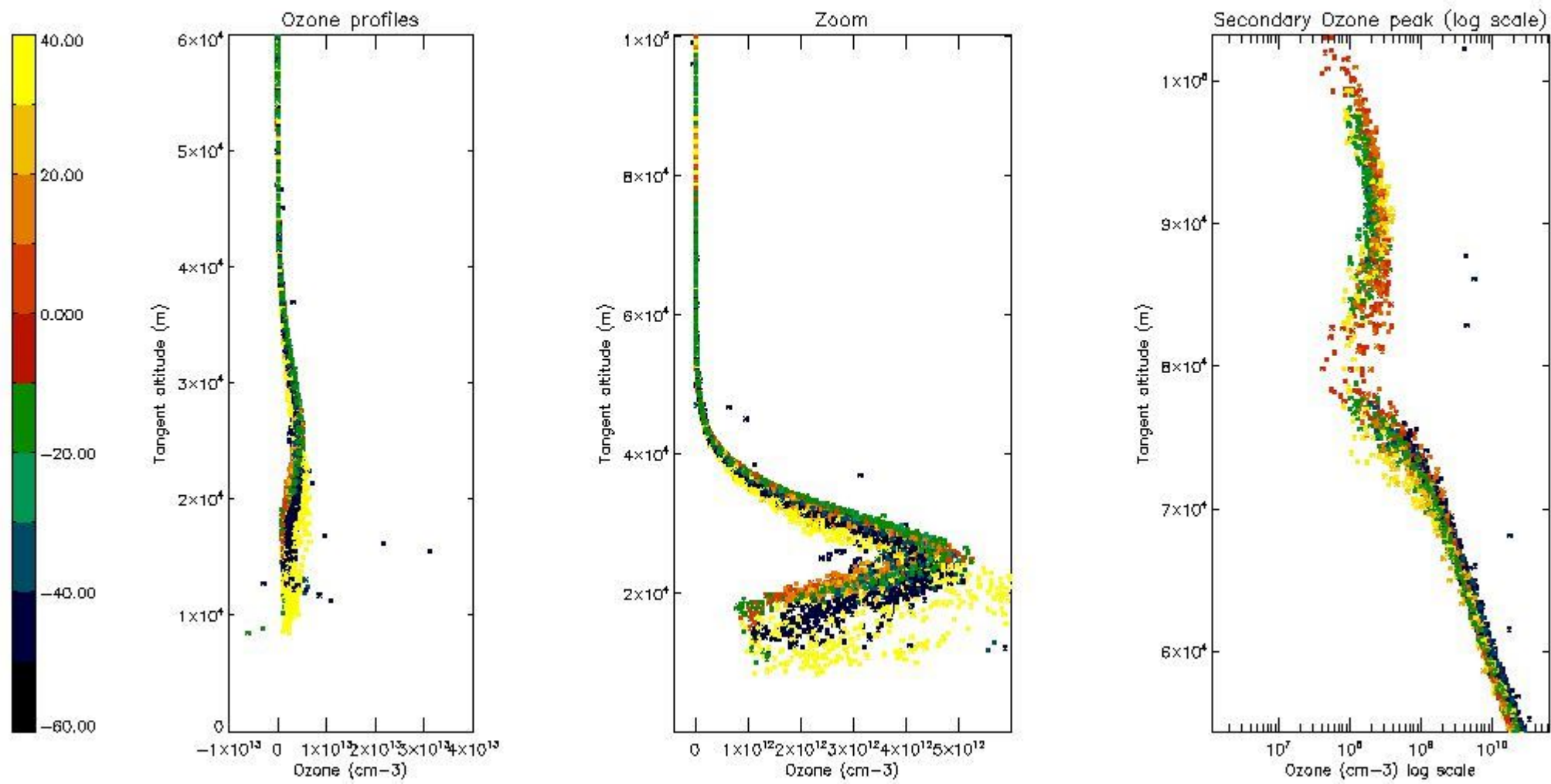
The colorbar represents the latitude.



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

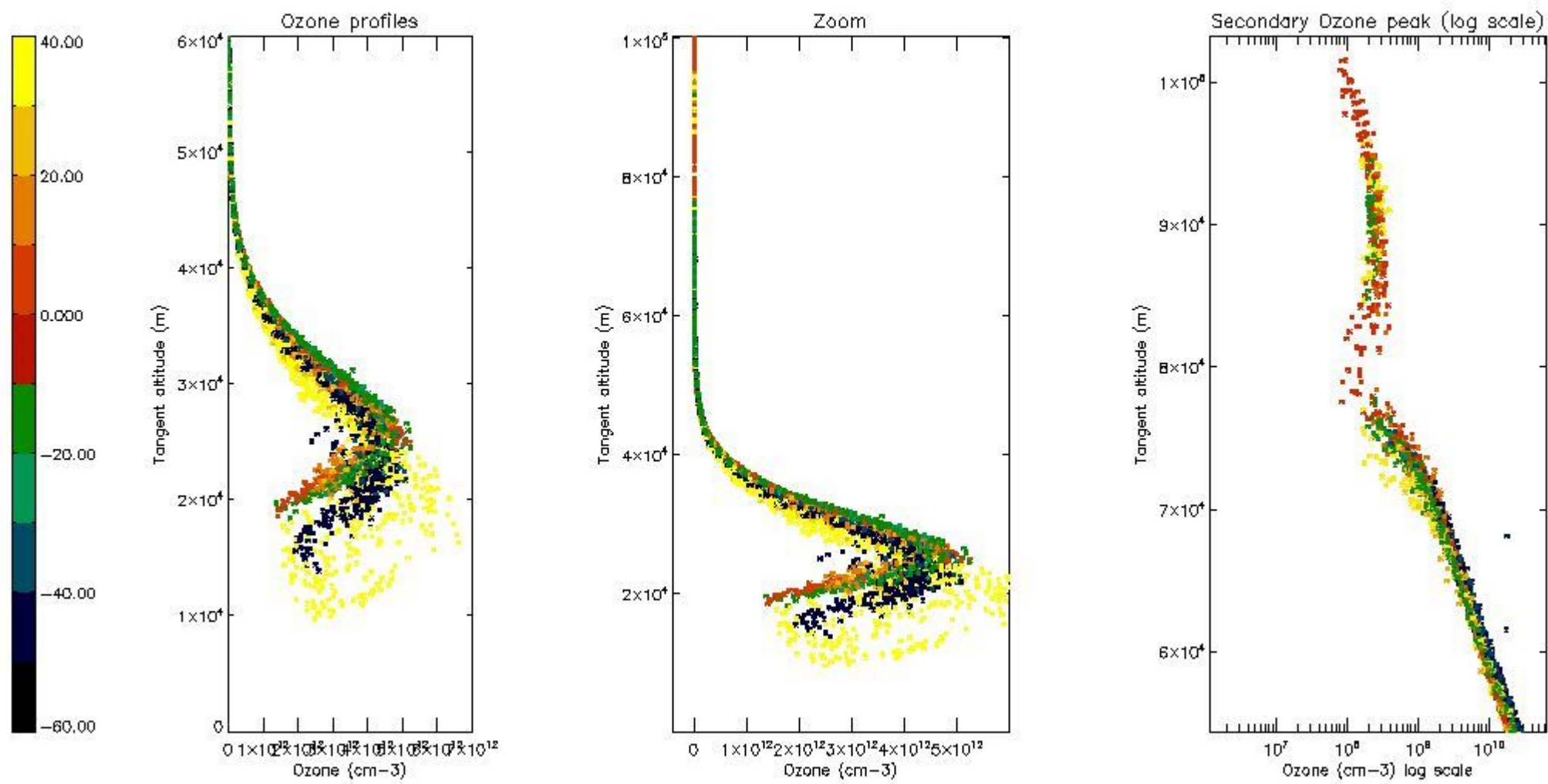
The colorbar represents the latitude.





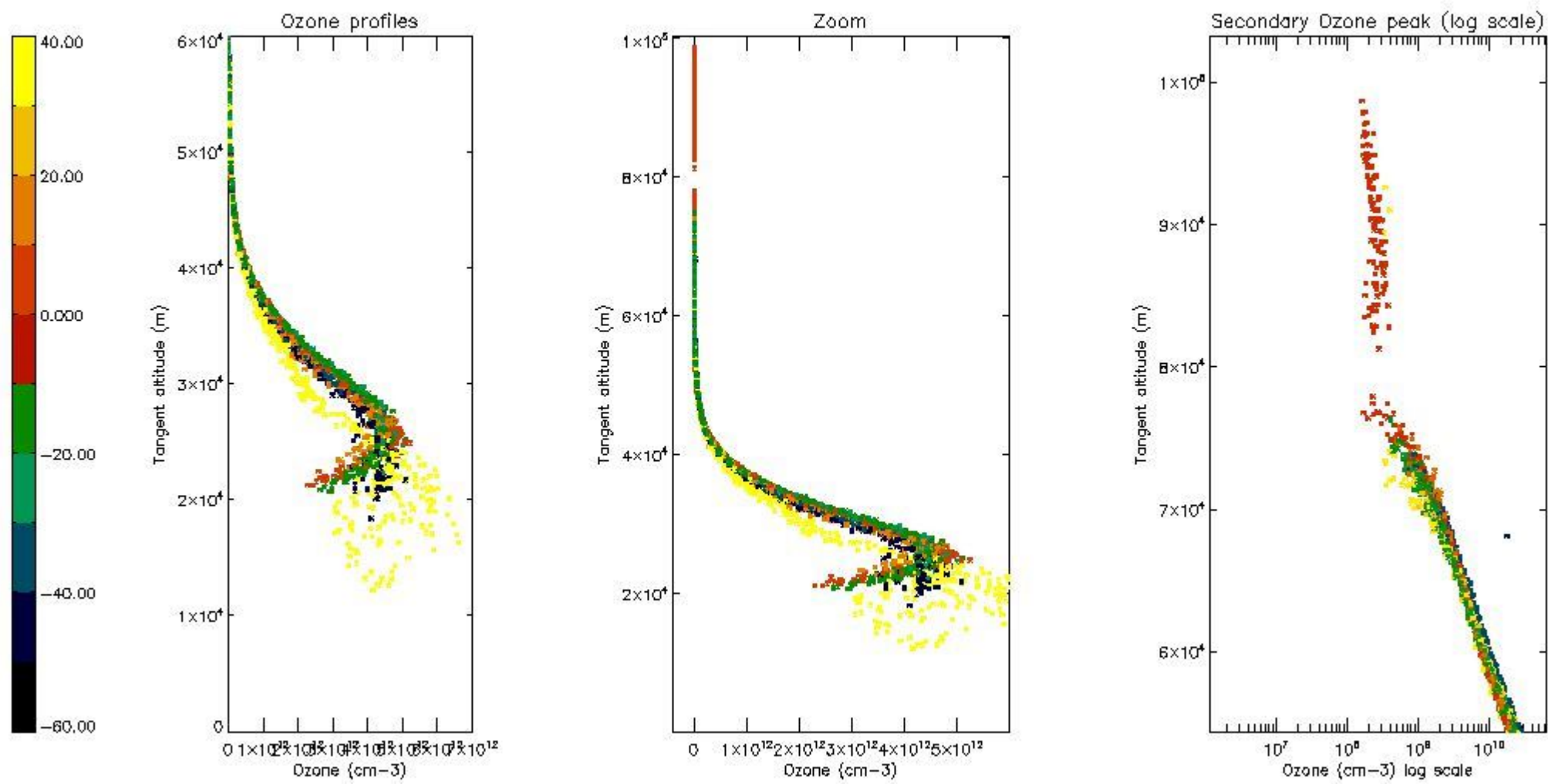
5.4 Plot ozone profiles where  $STD < 10\%$  (dark without errors)

The colorbar represents the latitude.



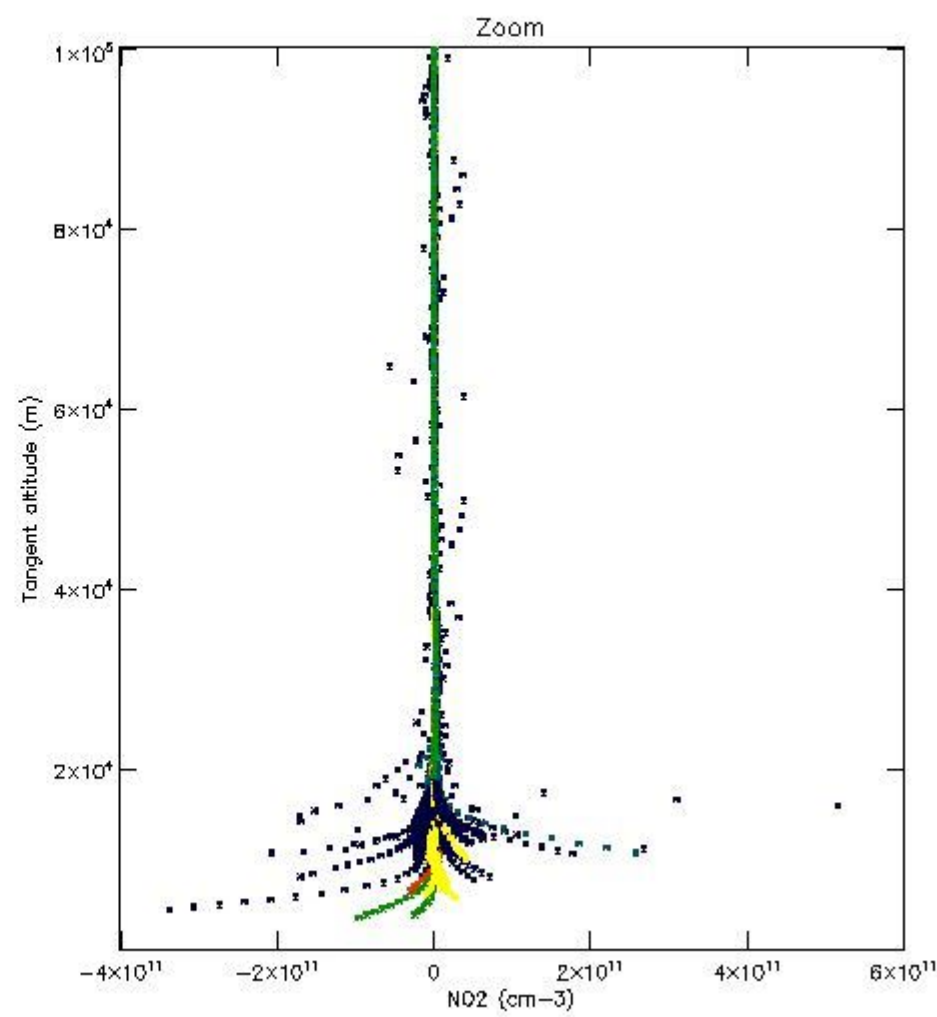
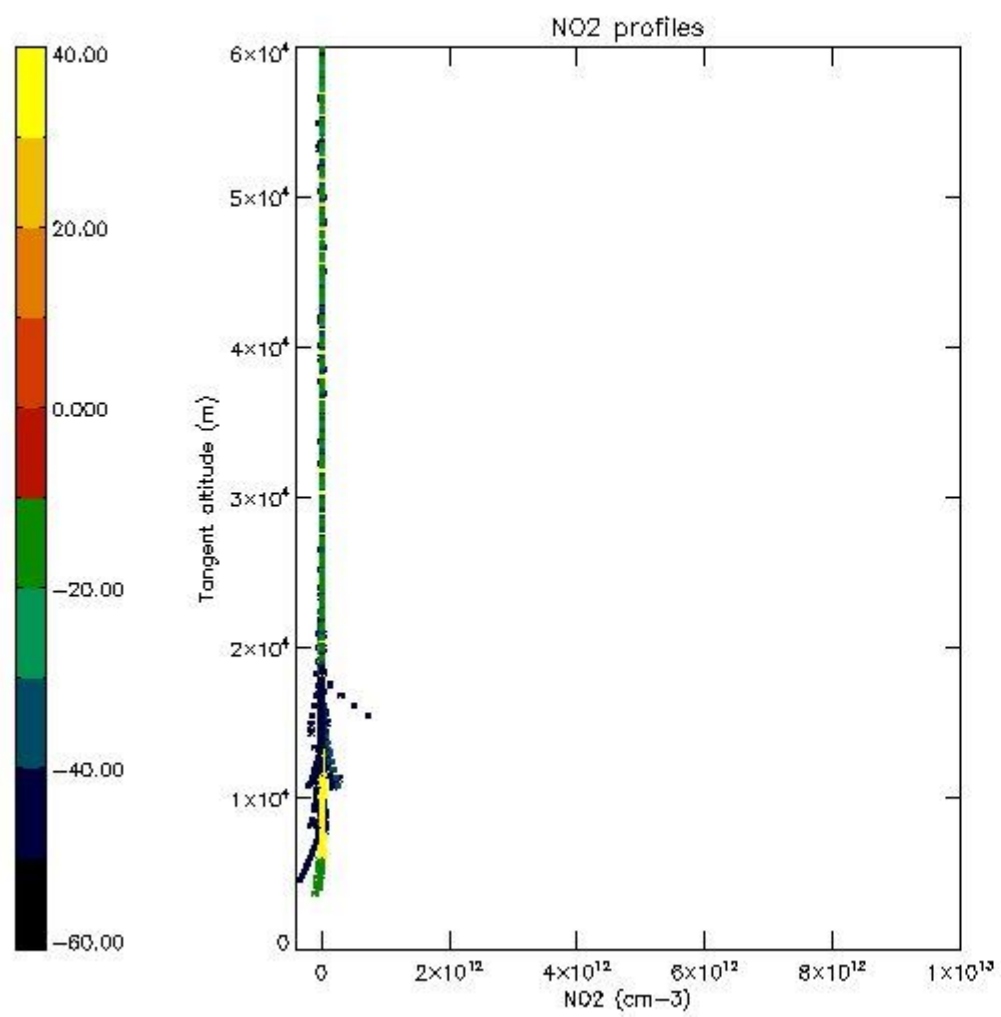
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



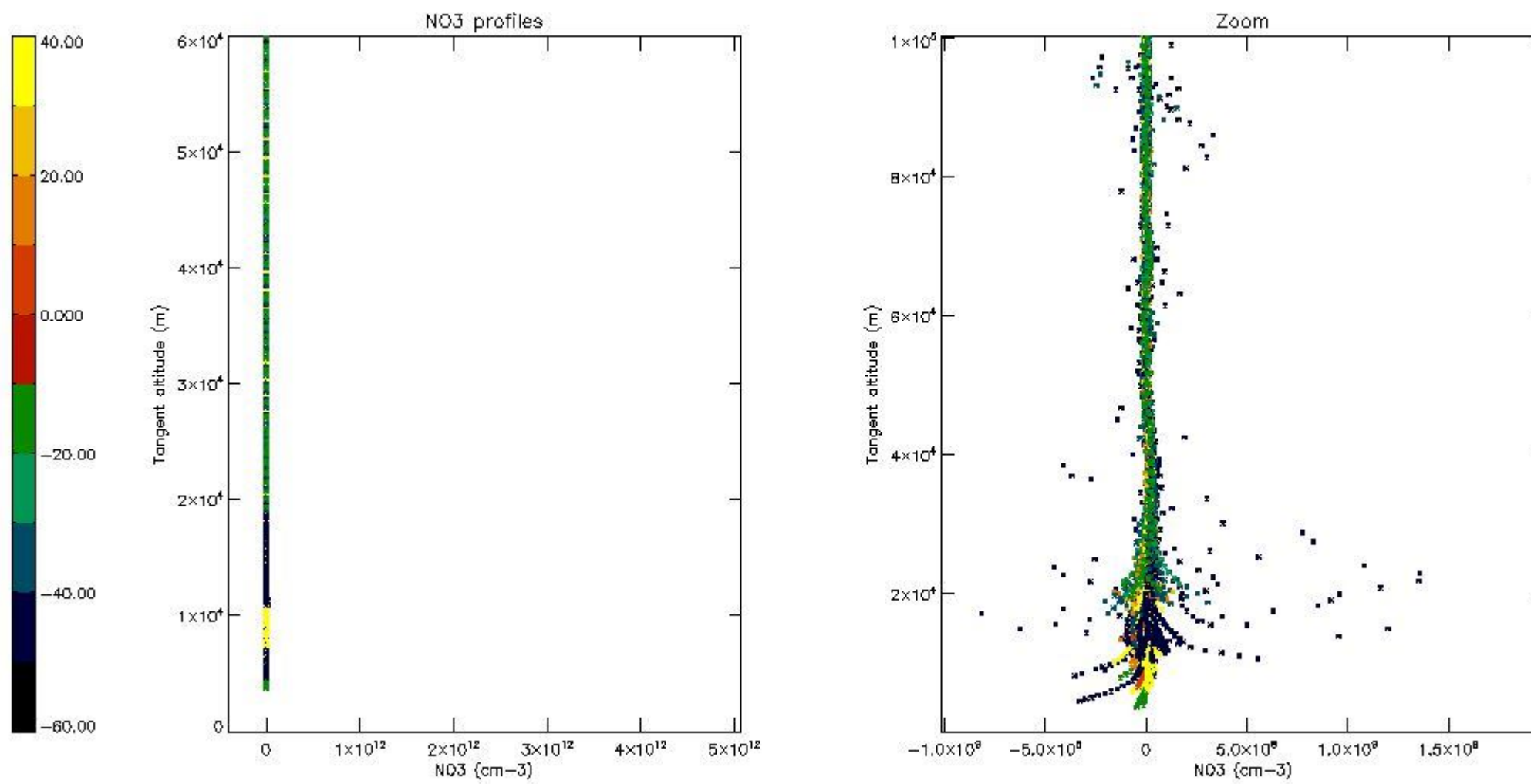
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



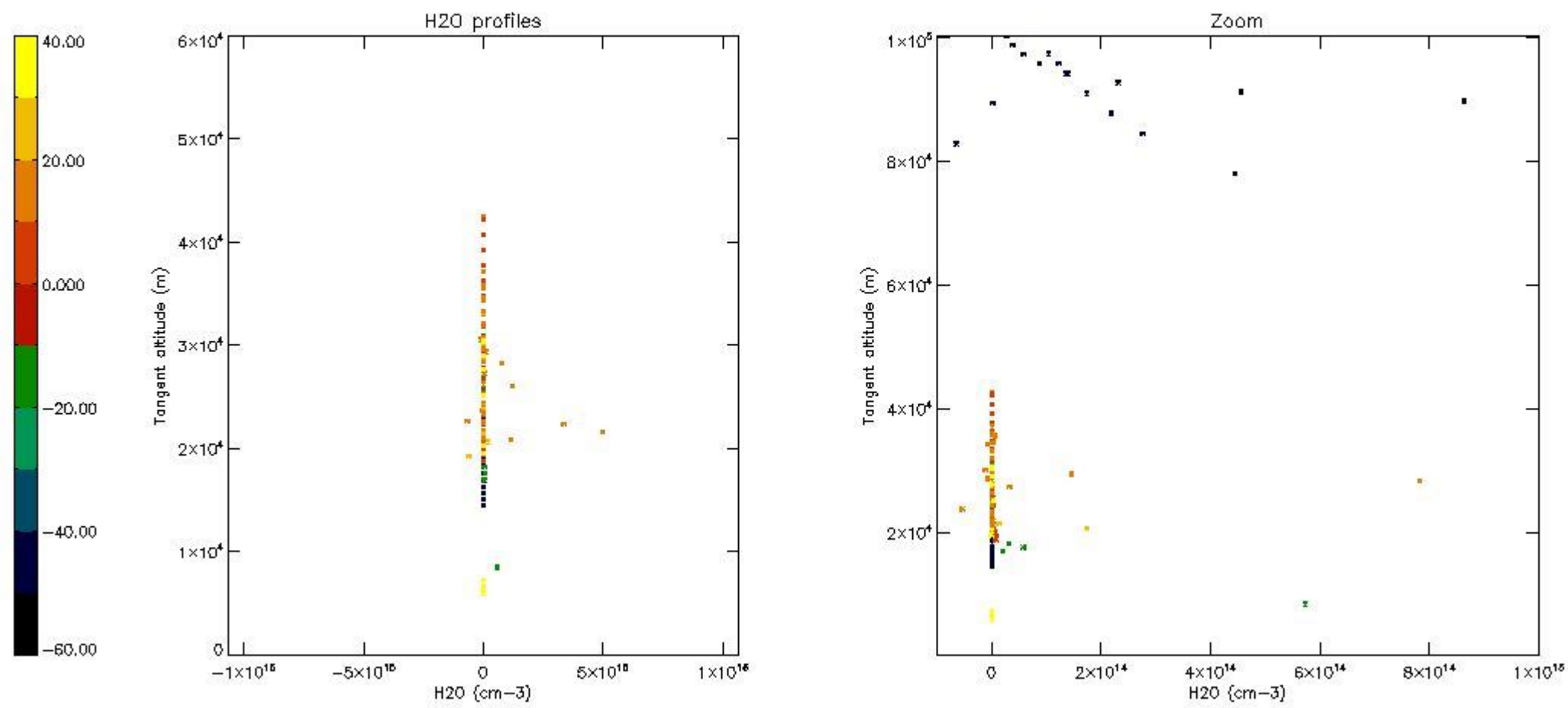
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	26-JAN-2004 00:05:54
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	26-JAN-2004 00:05:54
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	26-JAN-2004 00:05:54

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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













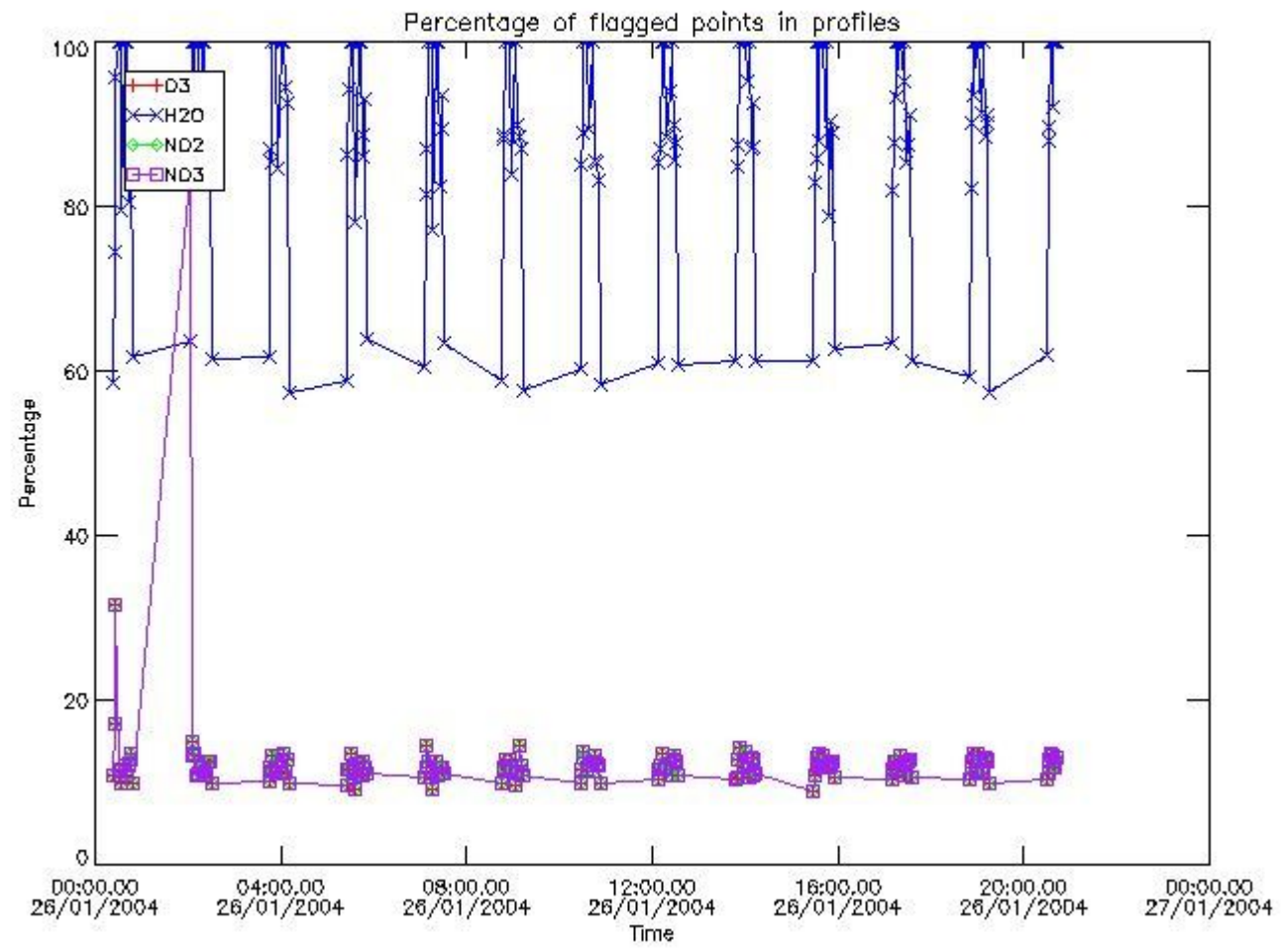






the MPH set to "0") are used.

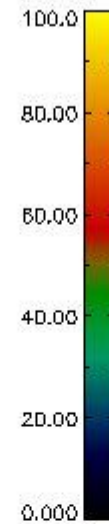
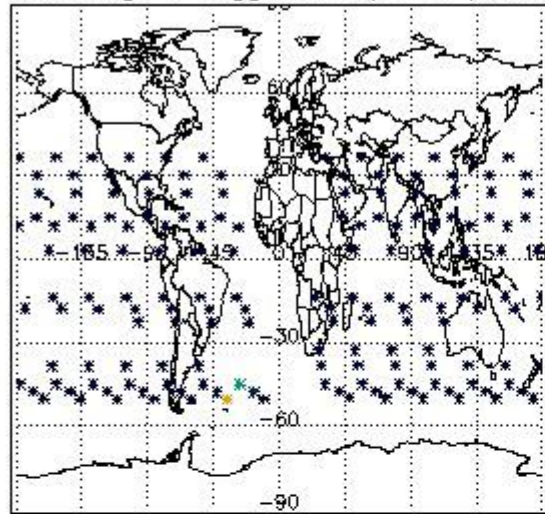
### 3.1 Plot quality information per product (time dependant)



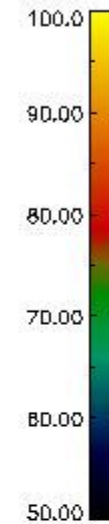
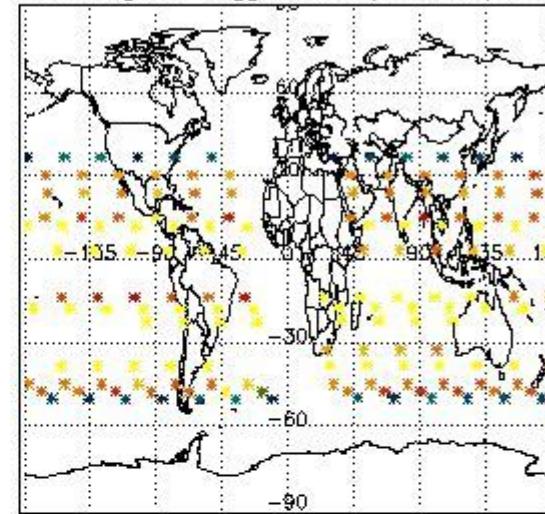
### 3.2 Plot quality information per product (world map)



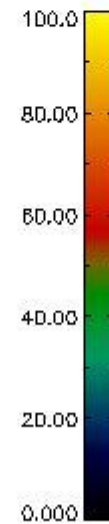
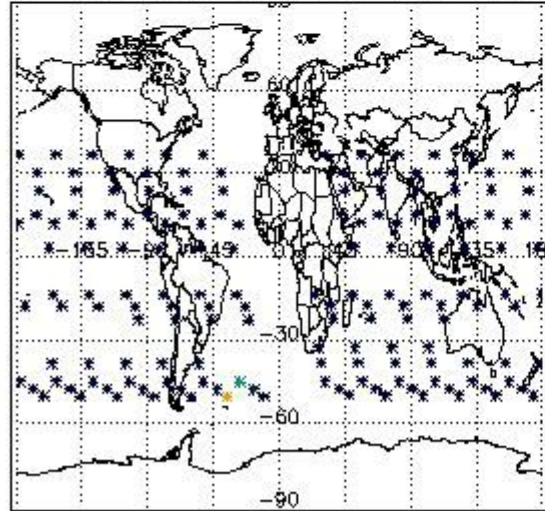
Percentage of flagged data per O3 profile



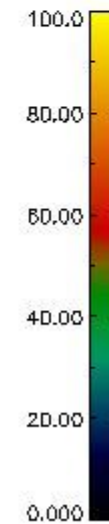
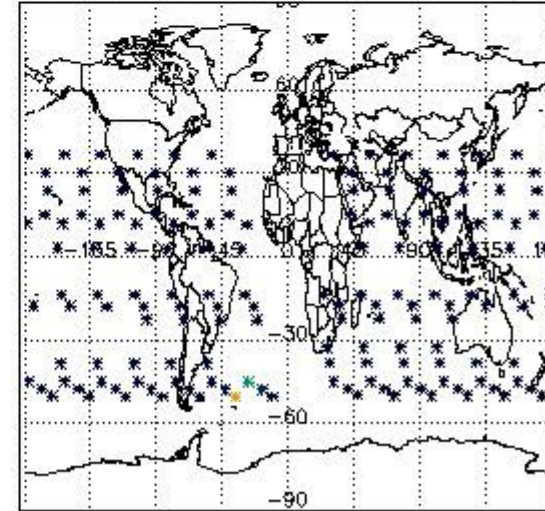
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

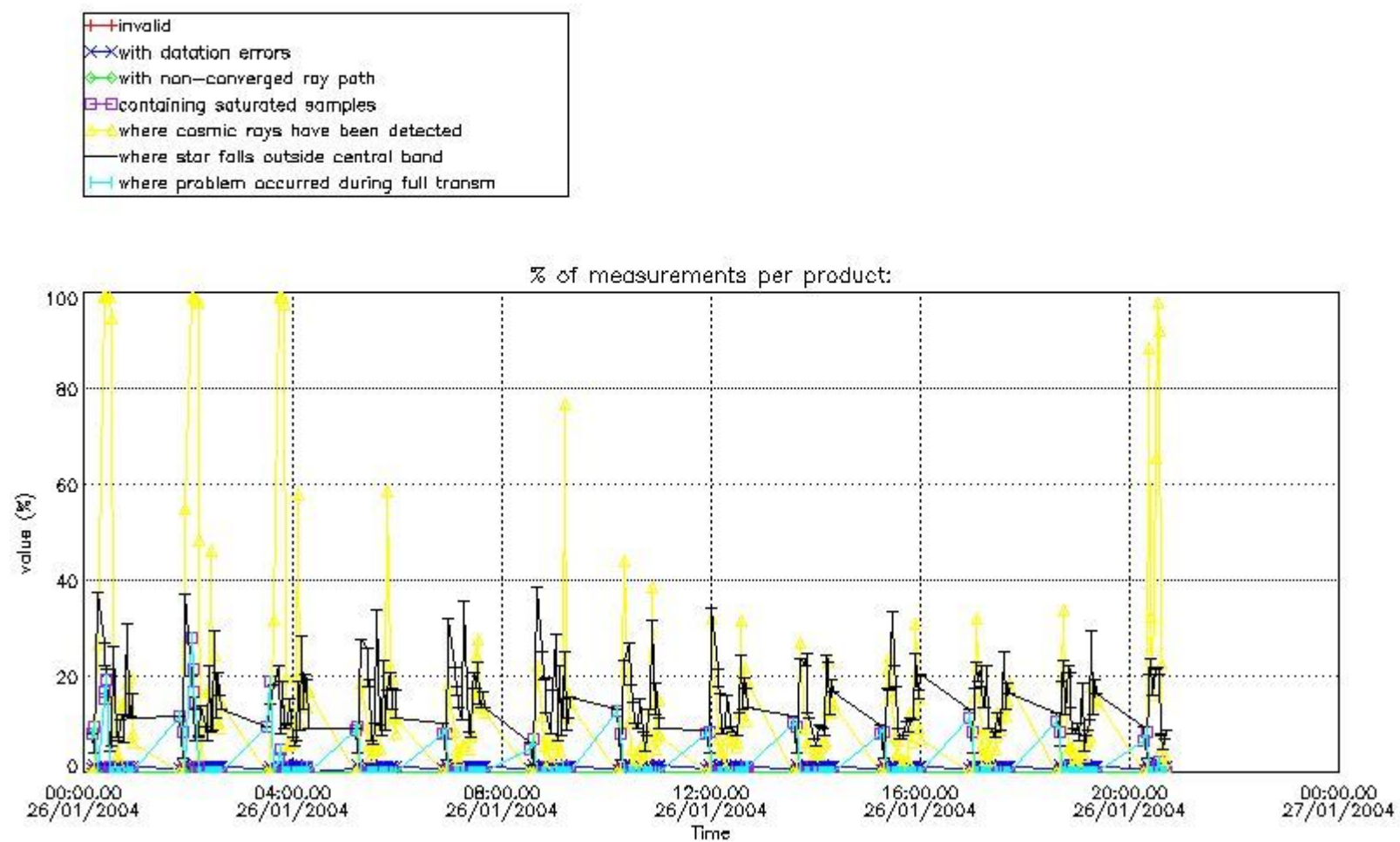


#### 4. Level 1 quality information per product

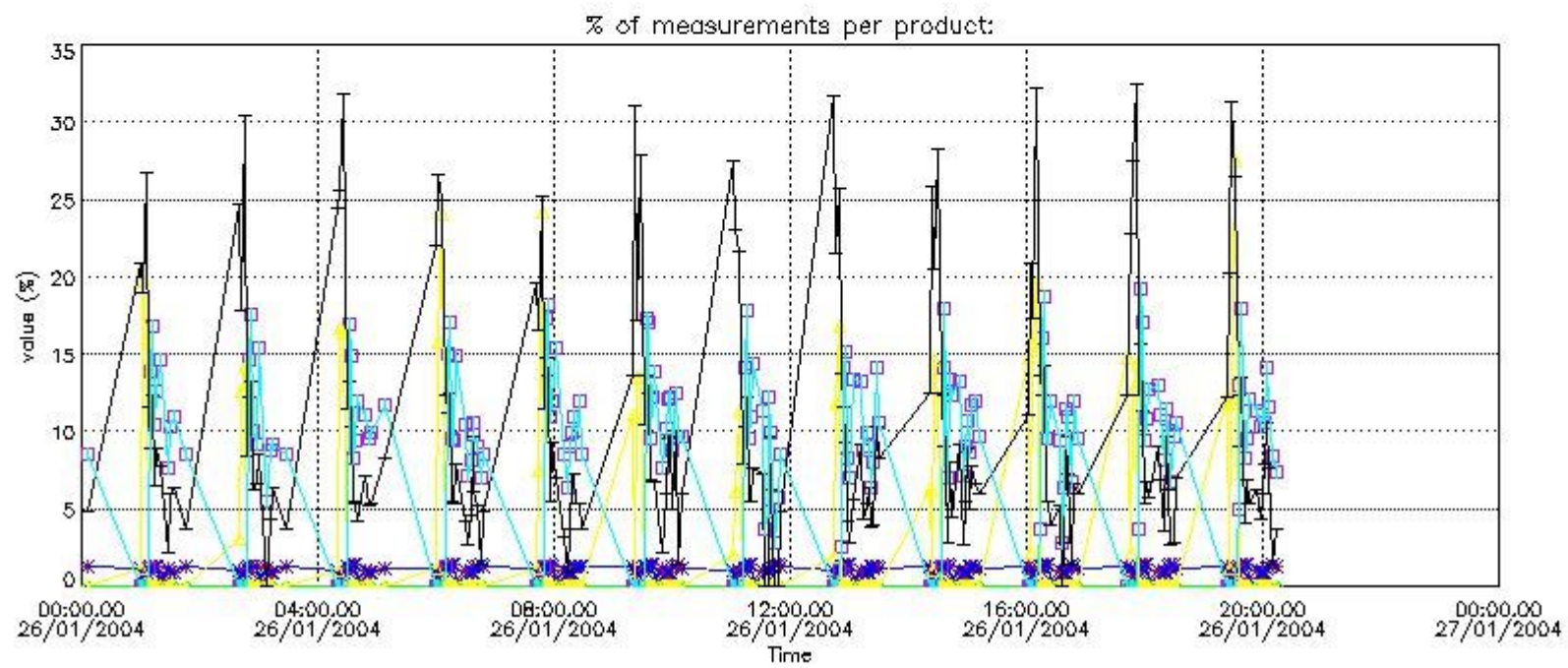
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

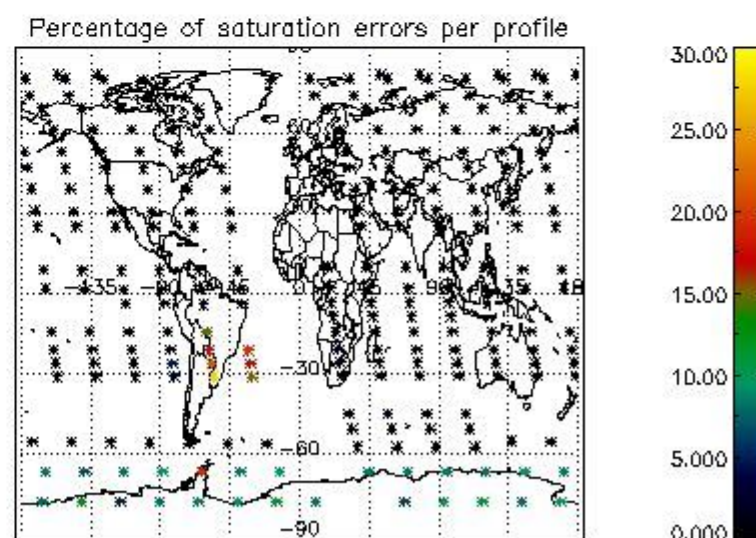
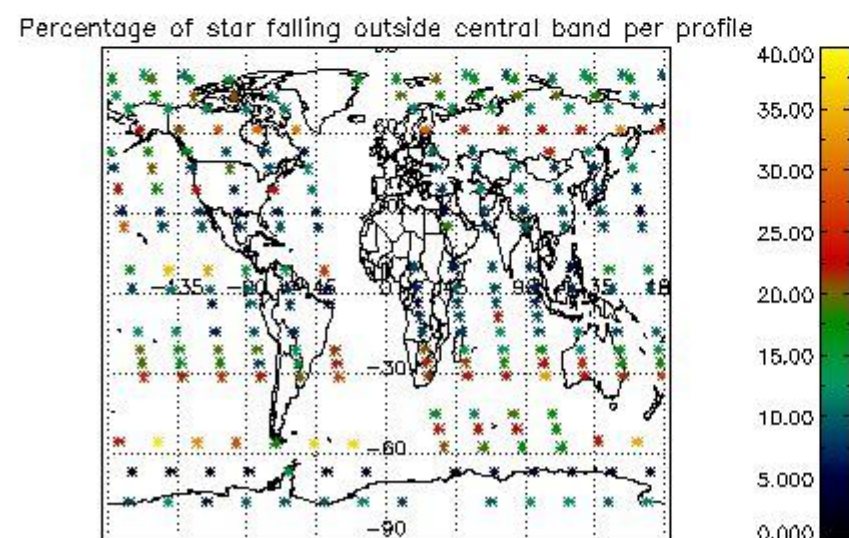
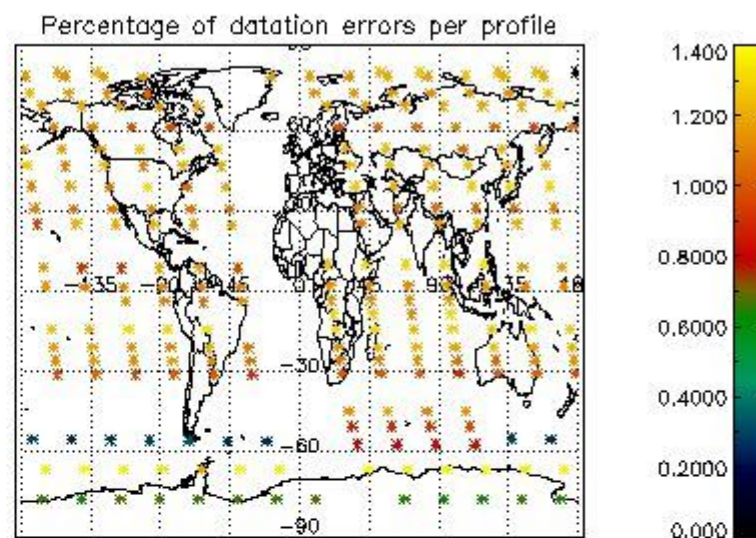
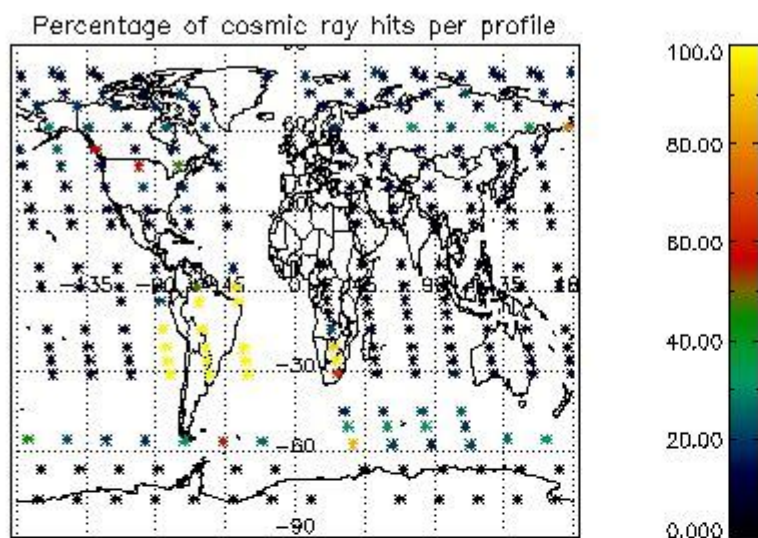


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

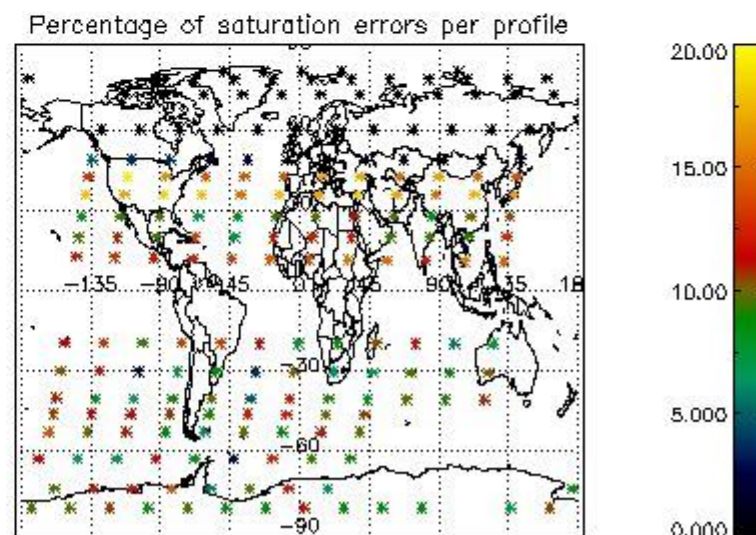
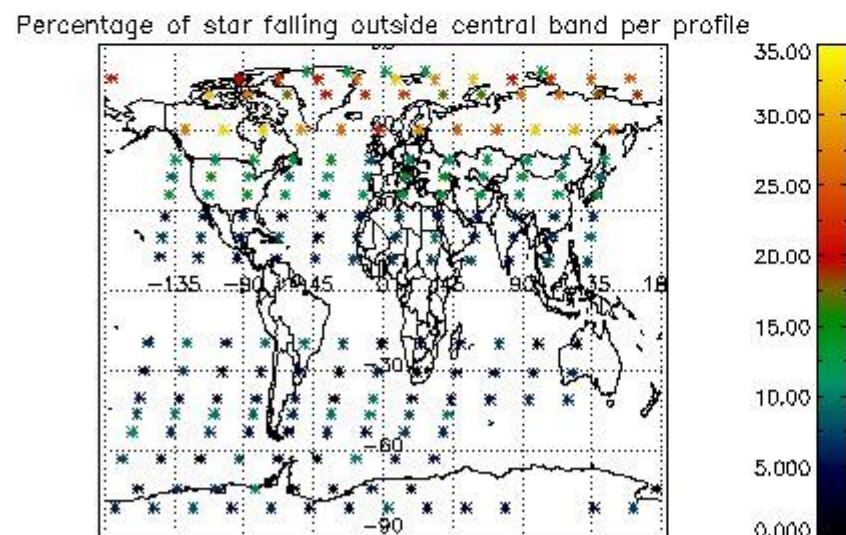
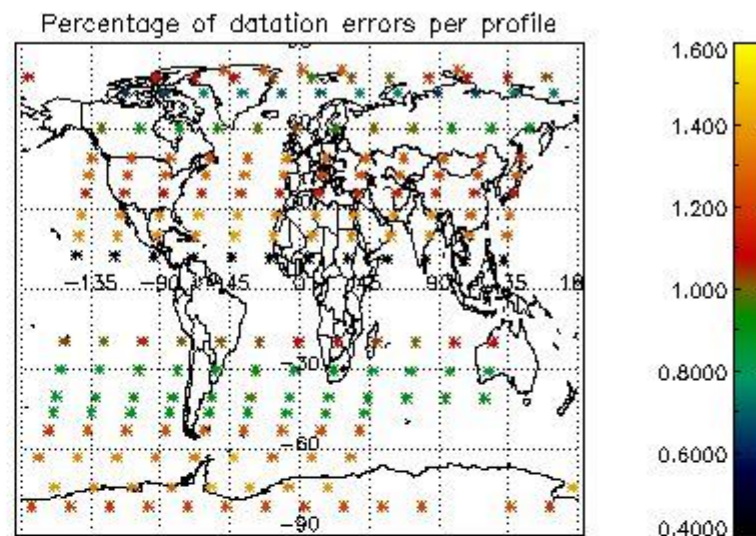
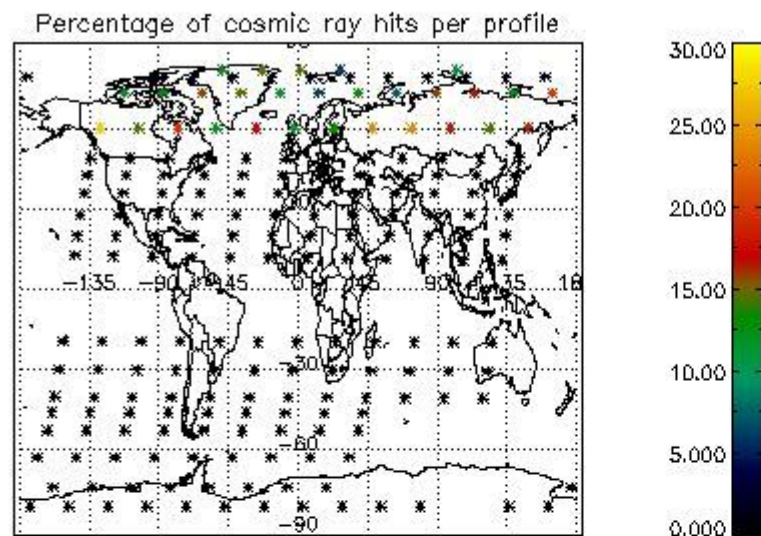


#### 4.2 Plot quality information per product coming from level 1b processing (world map)

##### 4.2.1 Plot level 1 quality information per product (world map): ENVI SAT ASCENDING passes



4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/o3\_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

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

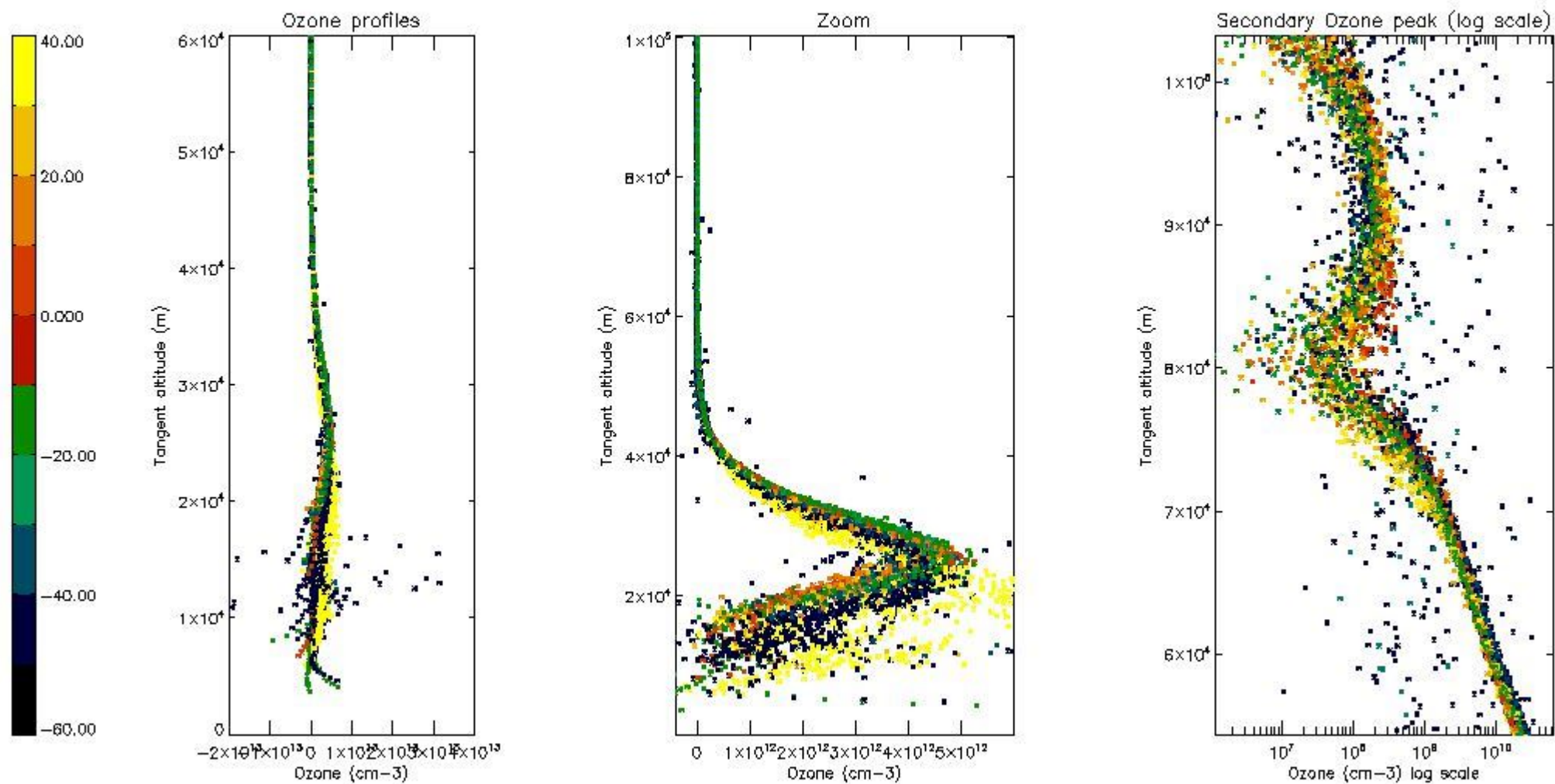
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	31
STD < 20	18

STD < 10	15
STD < 5	10

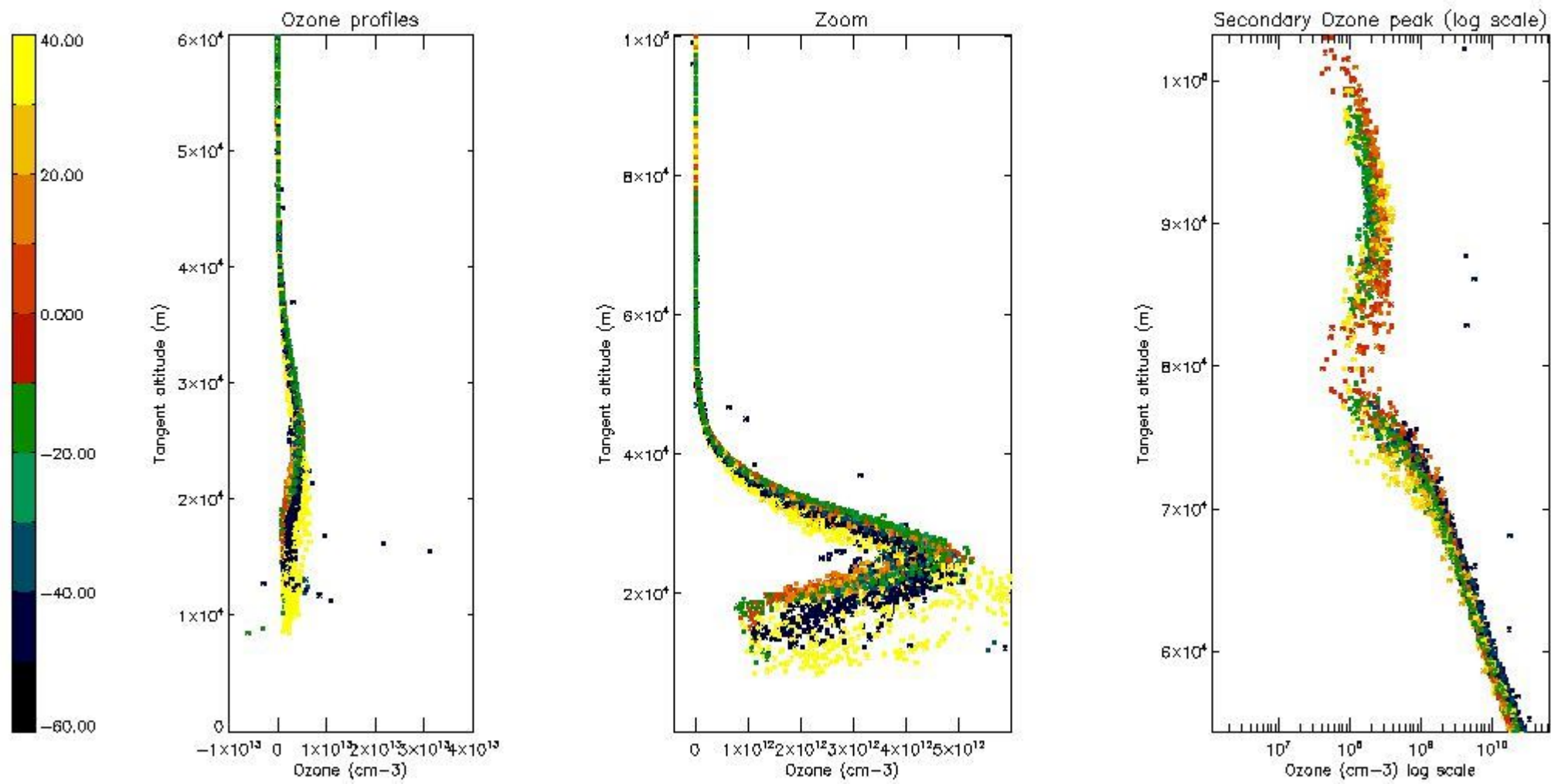
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



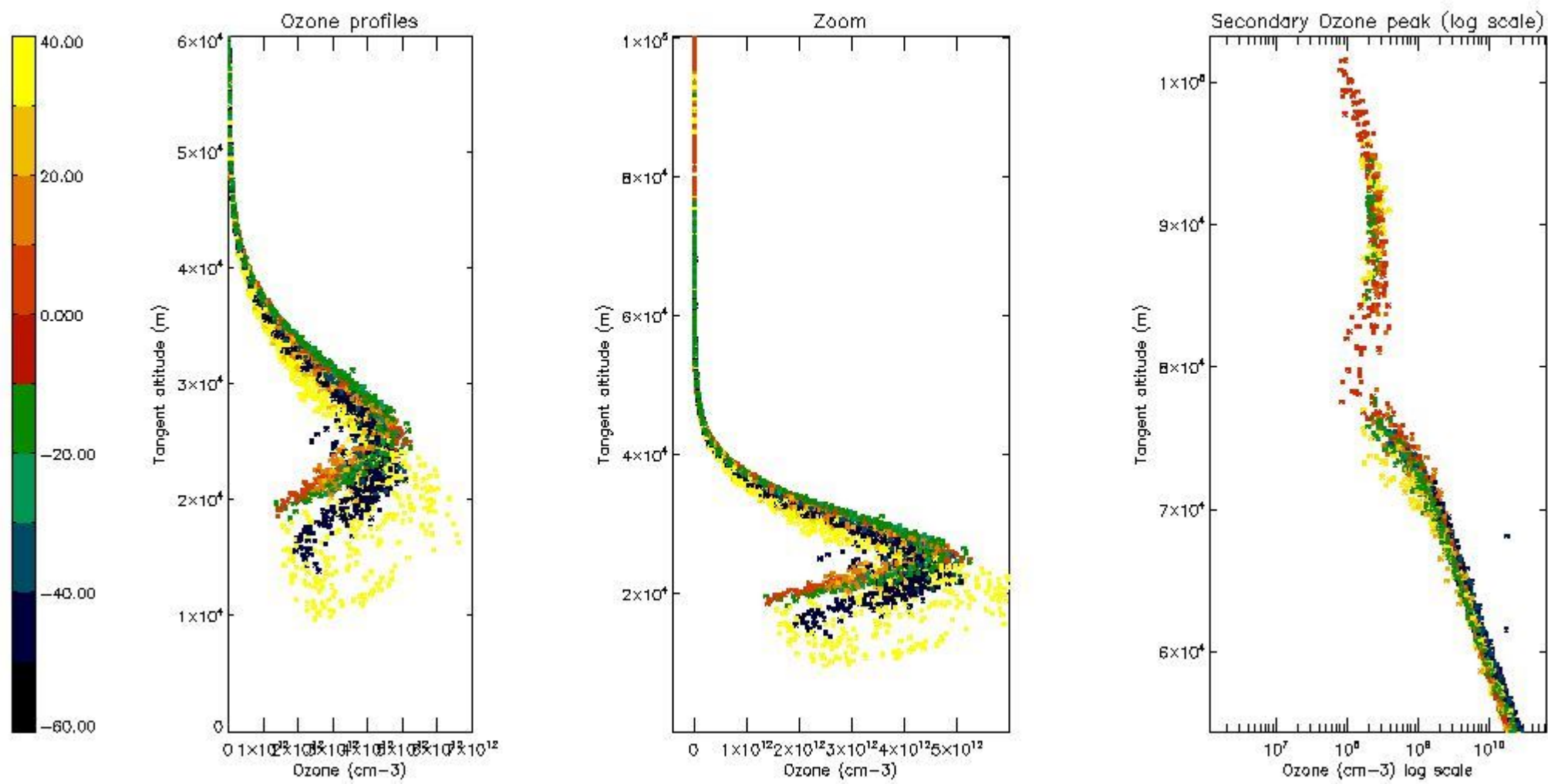
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

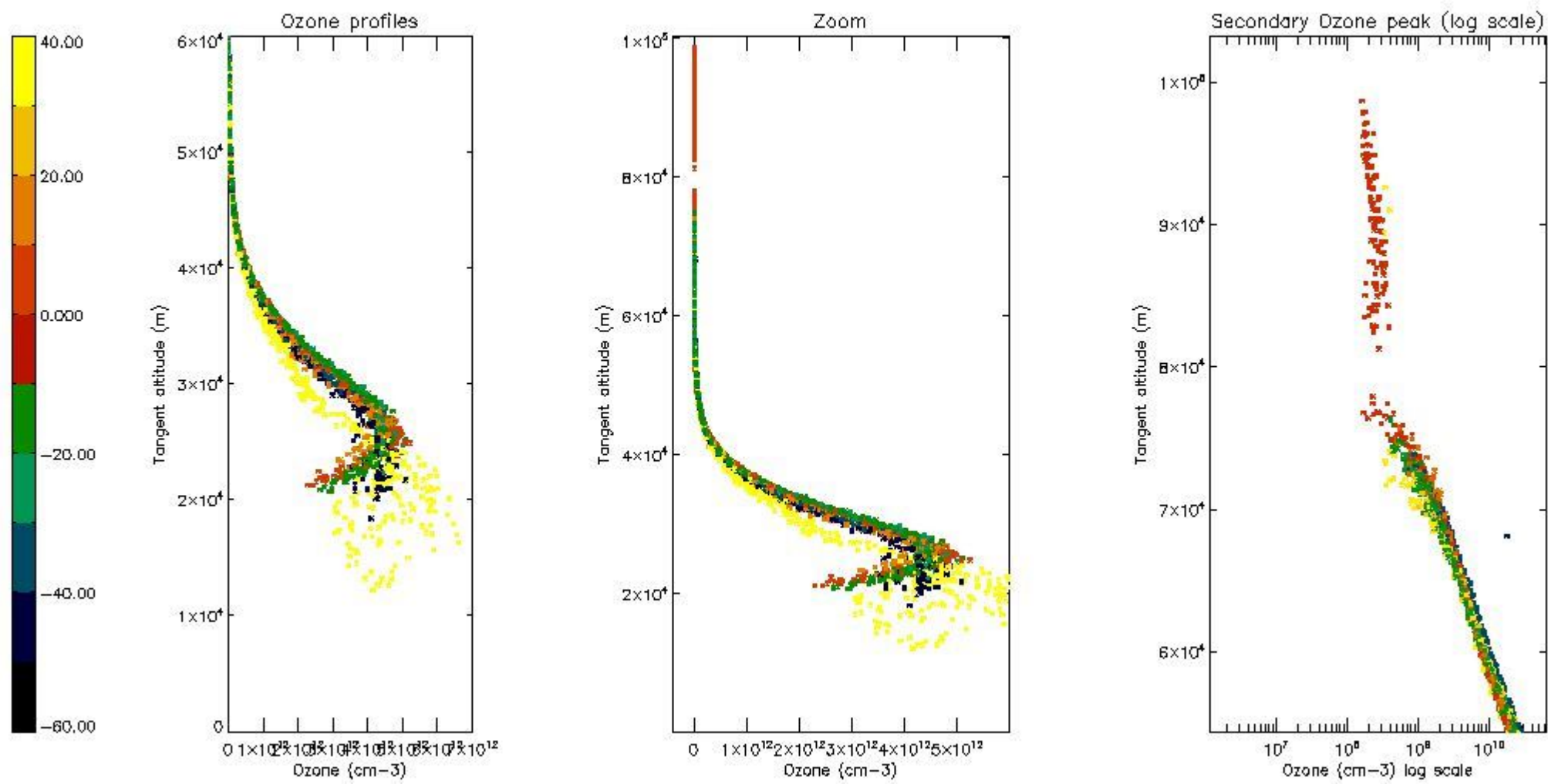
The colorbar represents the latitude.



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

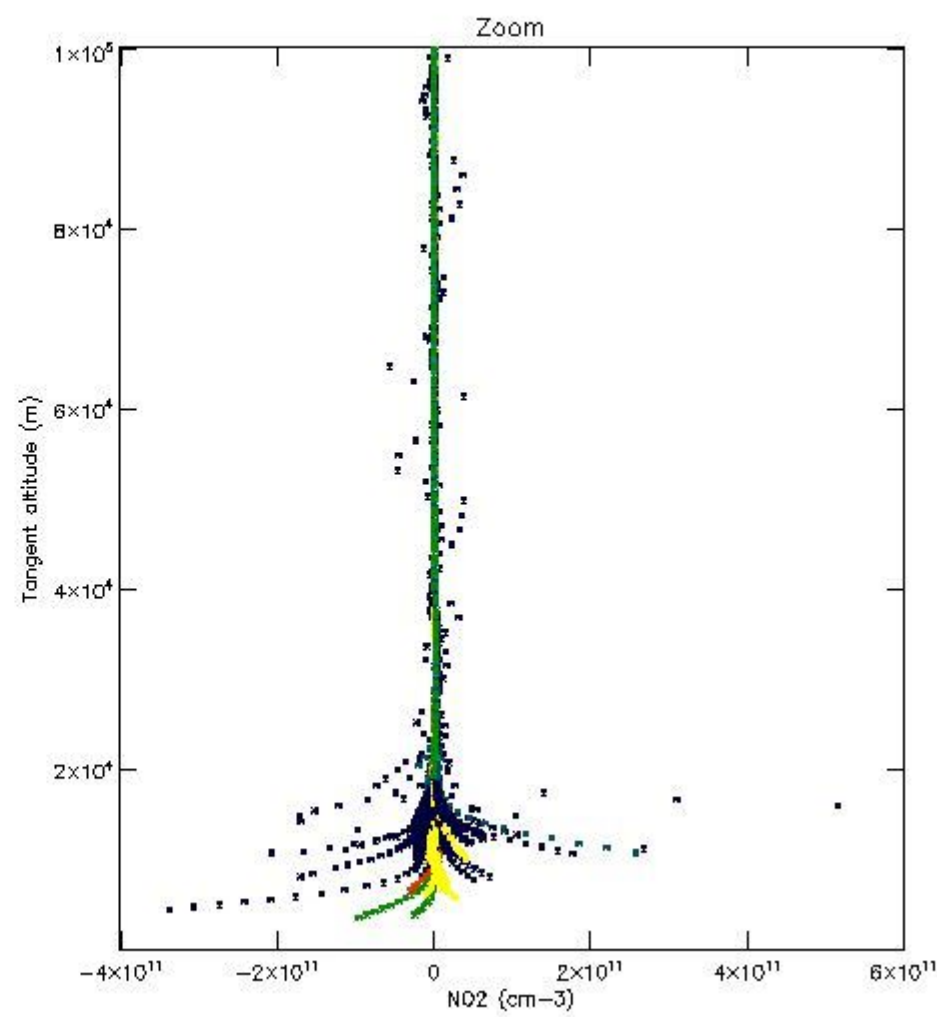
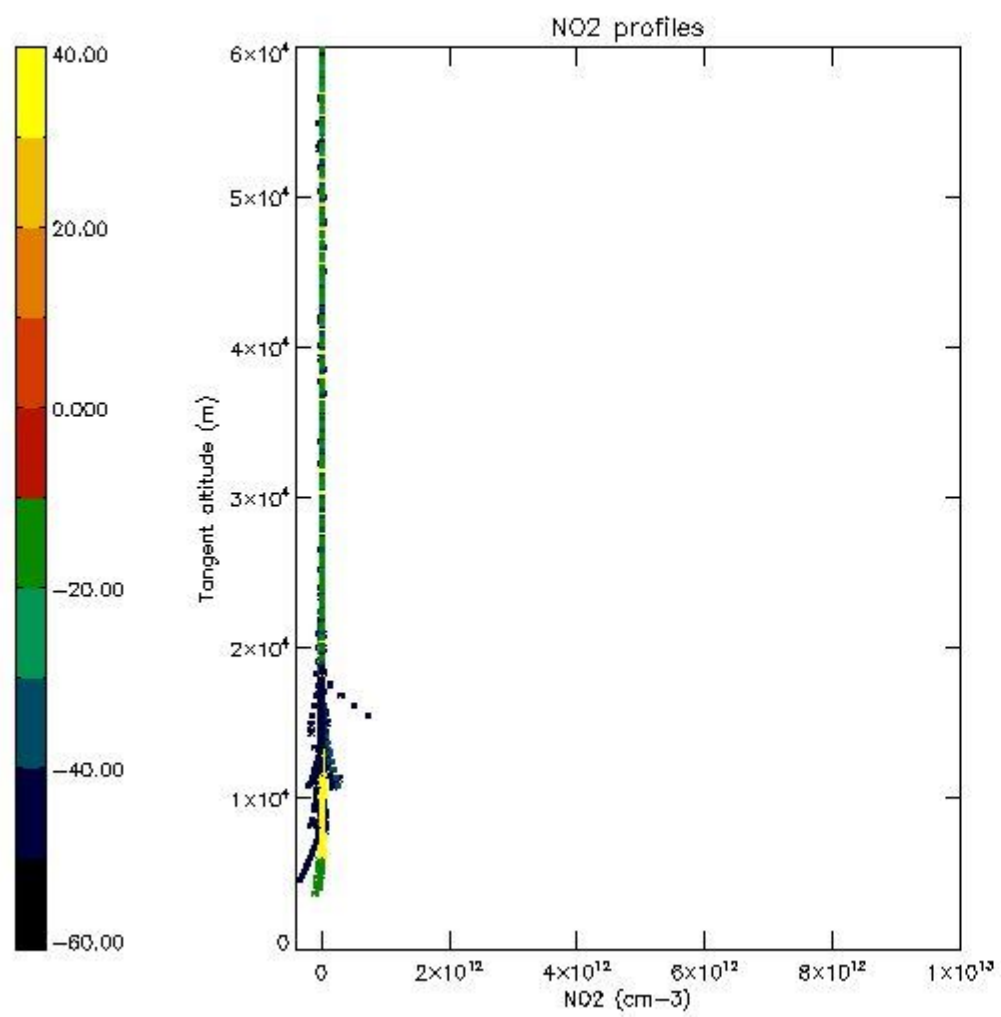
The colorbar represents the latitude.





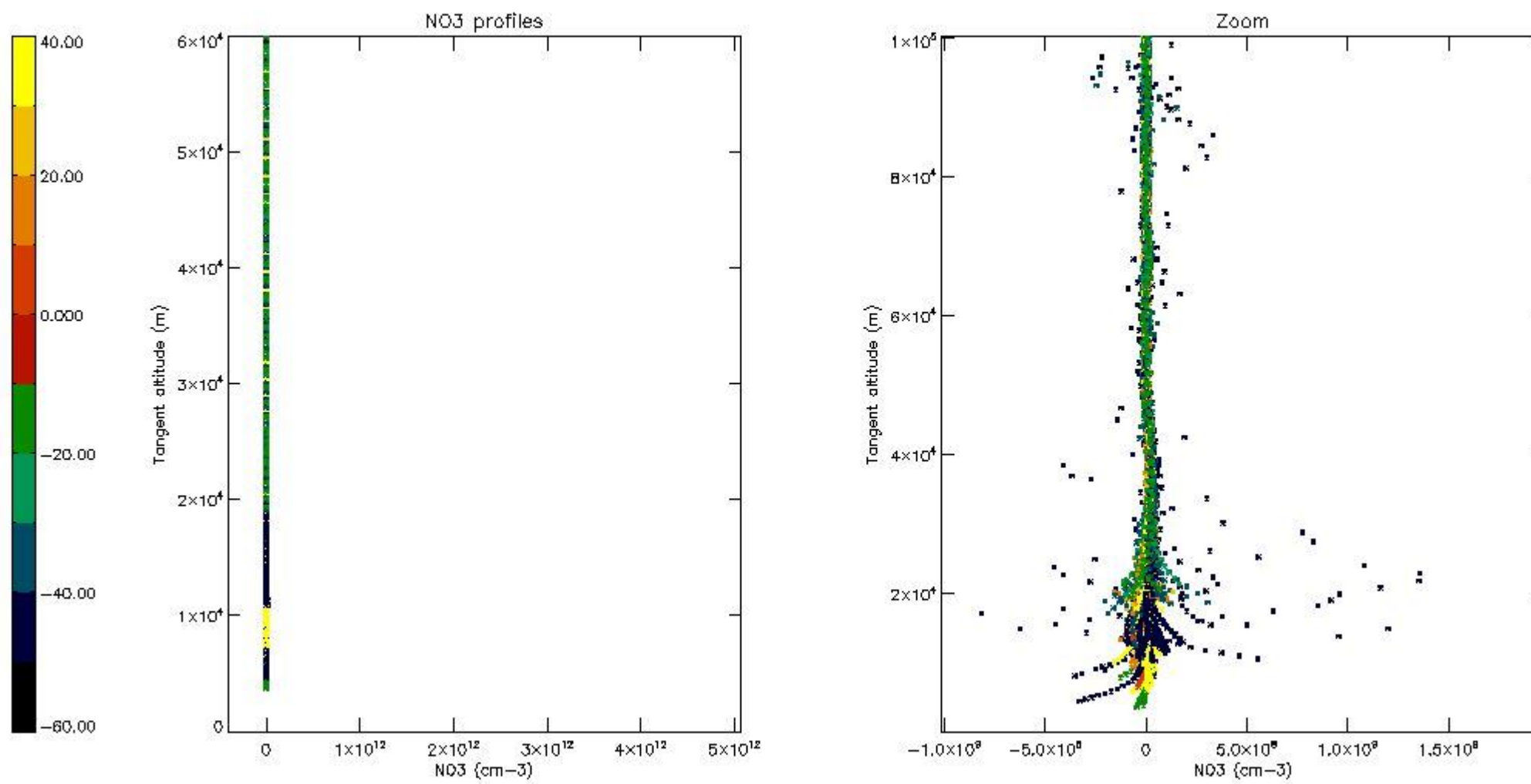
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



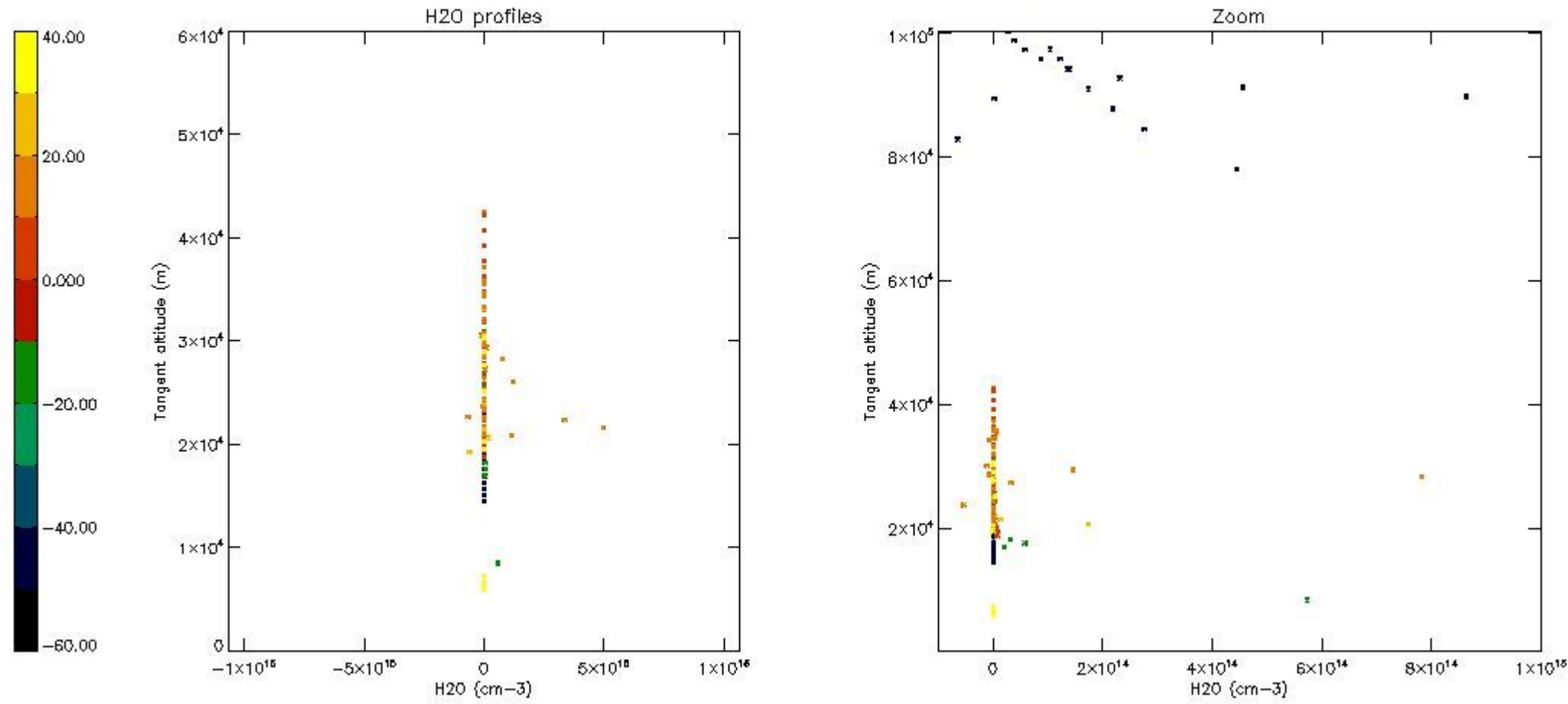
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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)

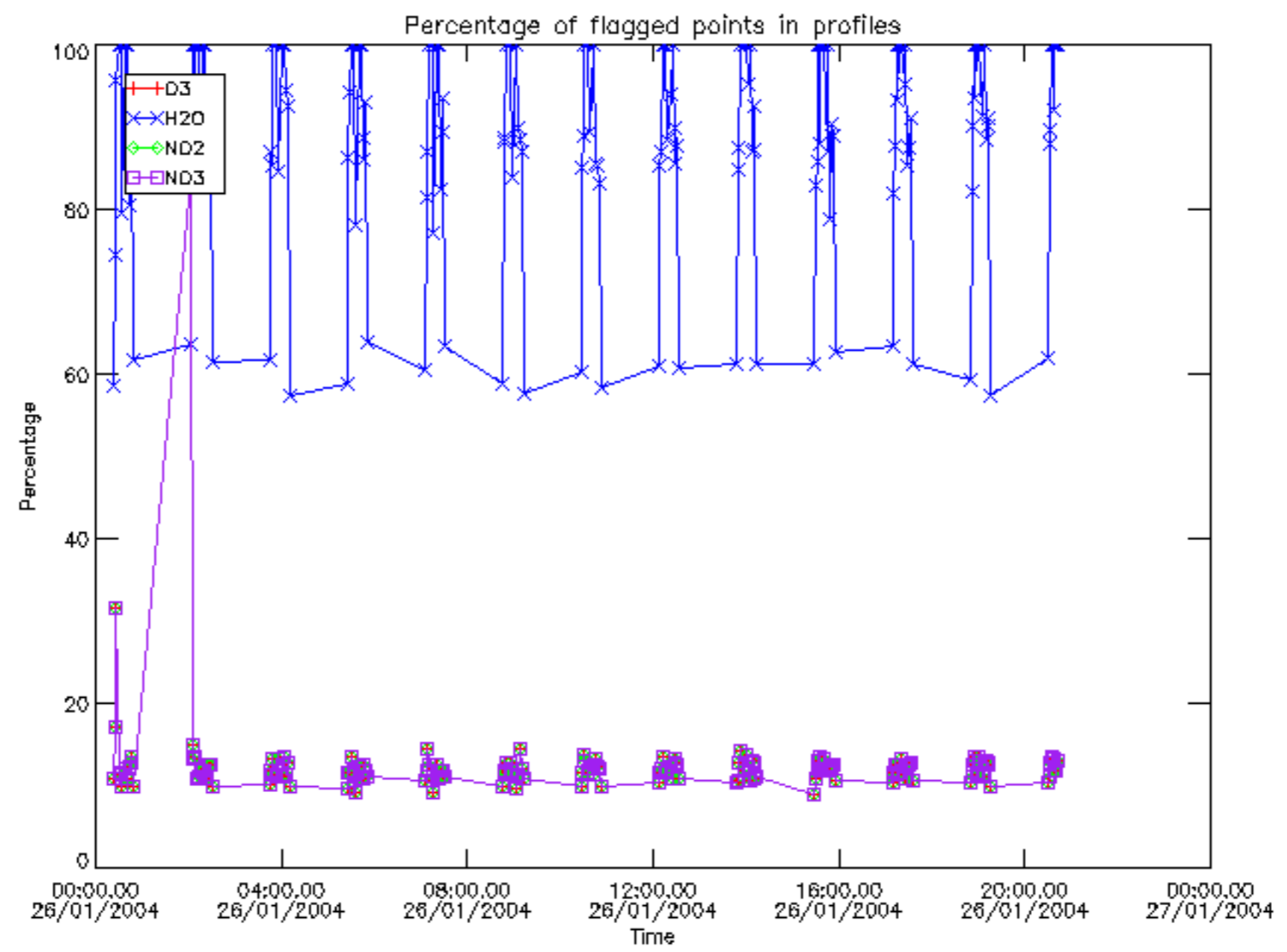
The colorbar represents the latitude.



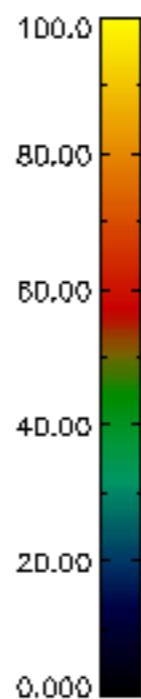
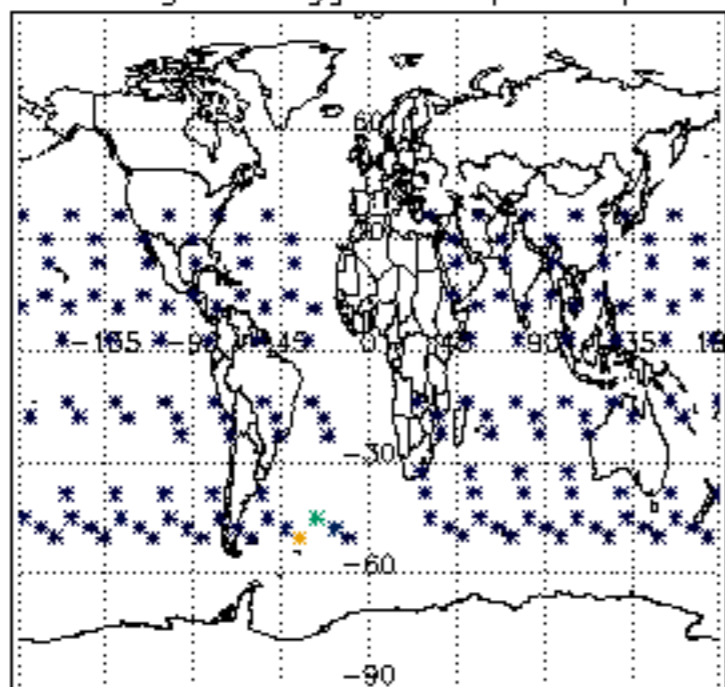
## 6. Auxiliary Data Files used for the production reported in section 2

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.

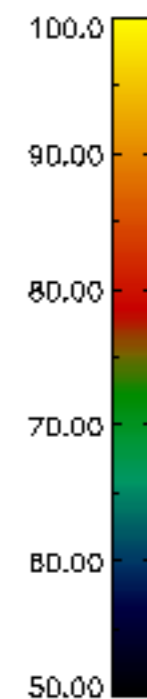
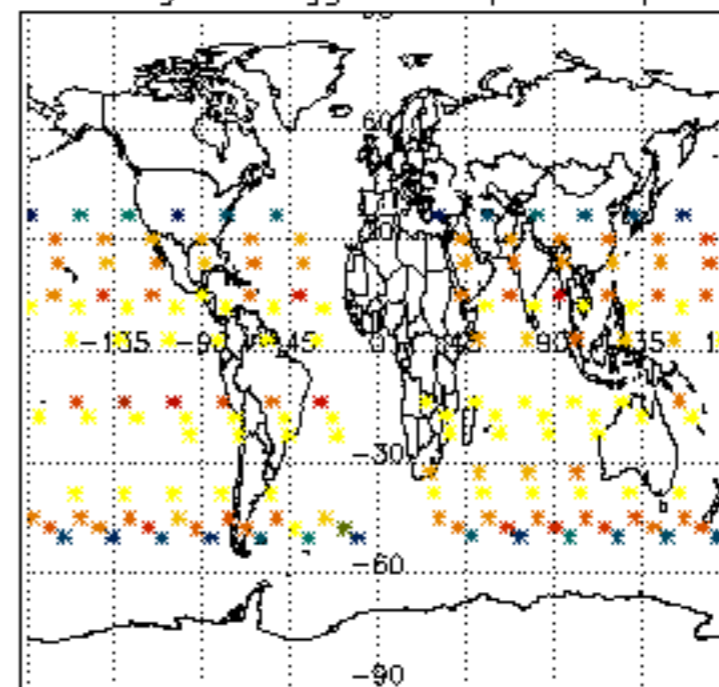
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	26-JAN-2004 00:05:54
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	26-JAN-2004 00:05:54
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	26-JAN-2004 00:05:54



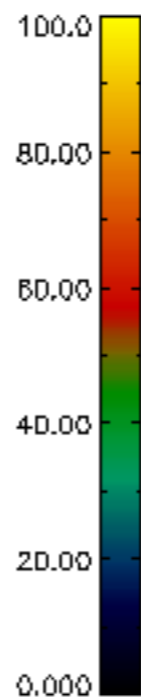
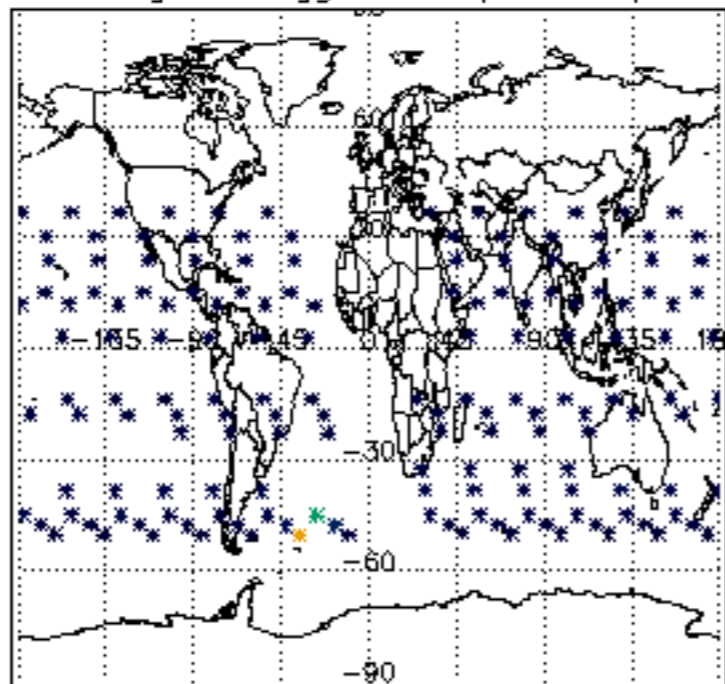
Percentage of flagged data per D3 profile



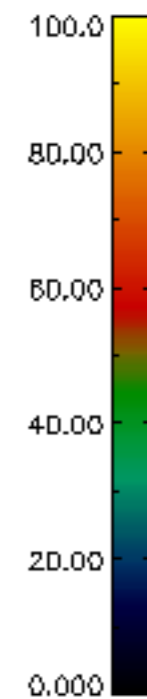
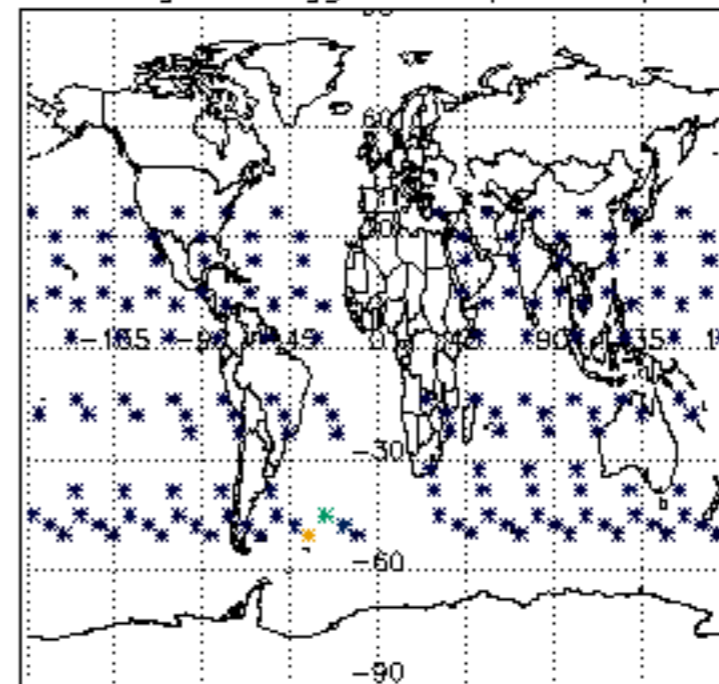
Percentage of flagged data per H2O profile

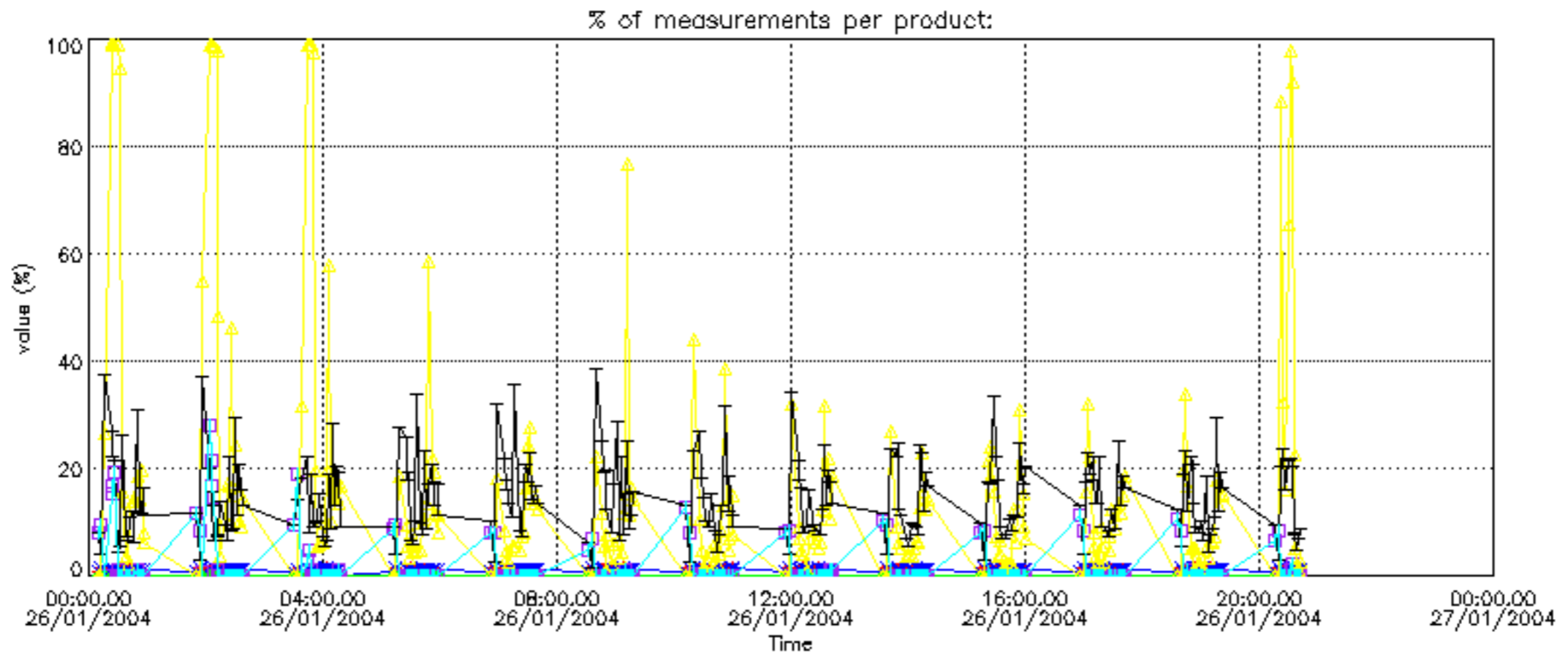


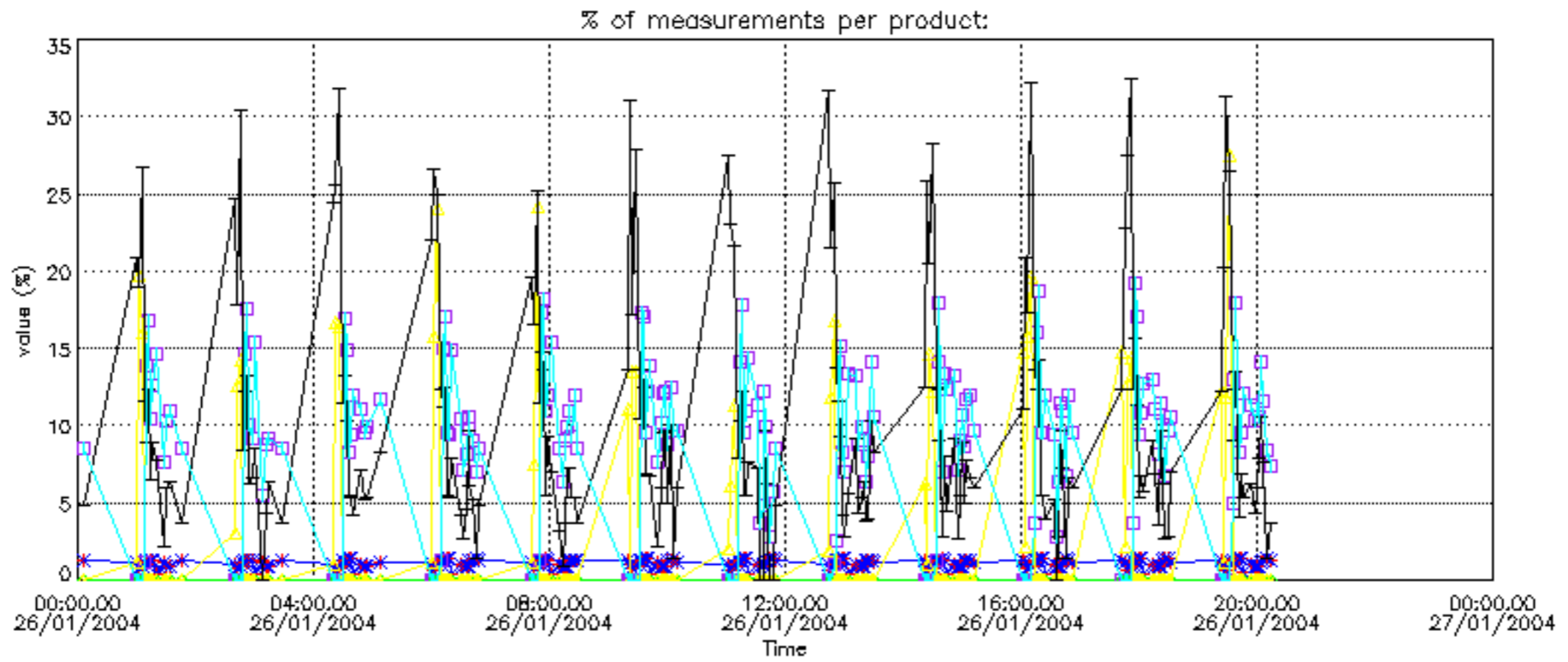
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

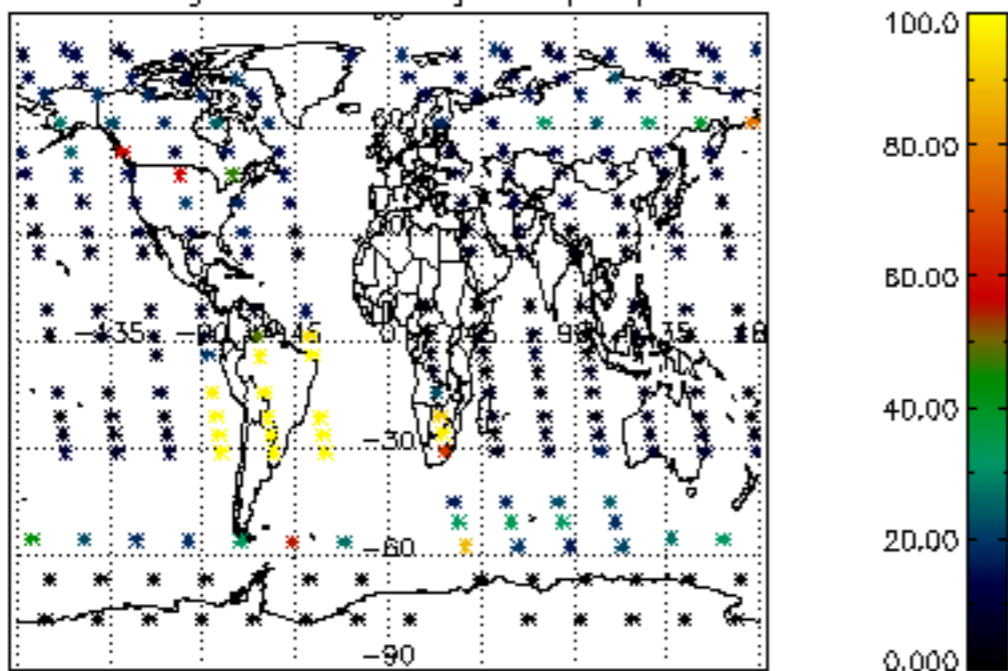




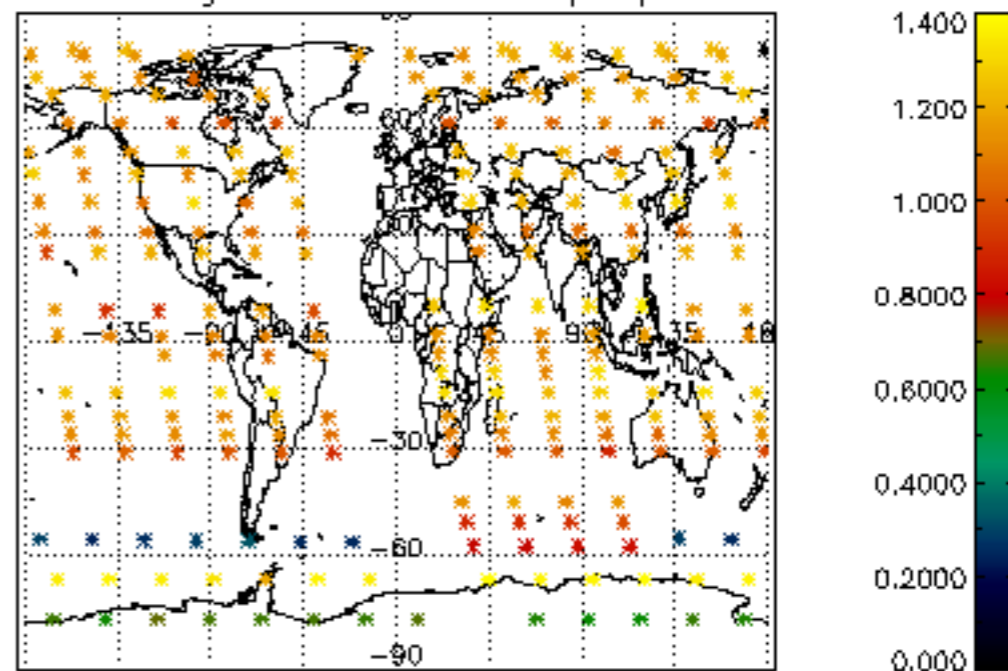




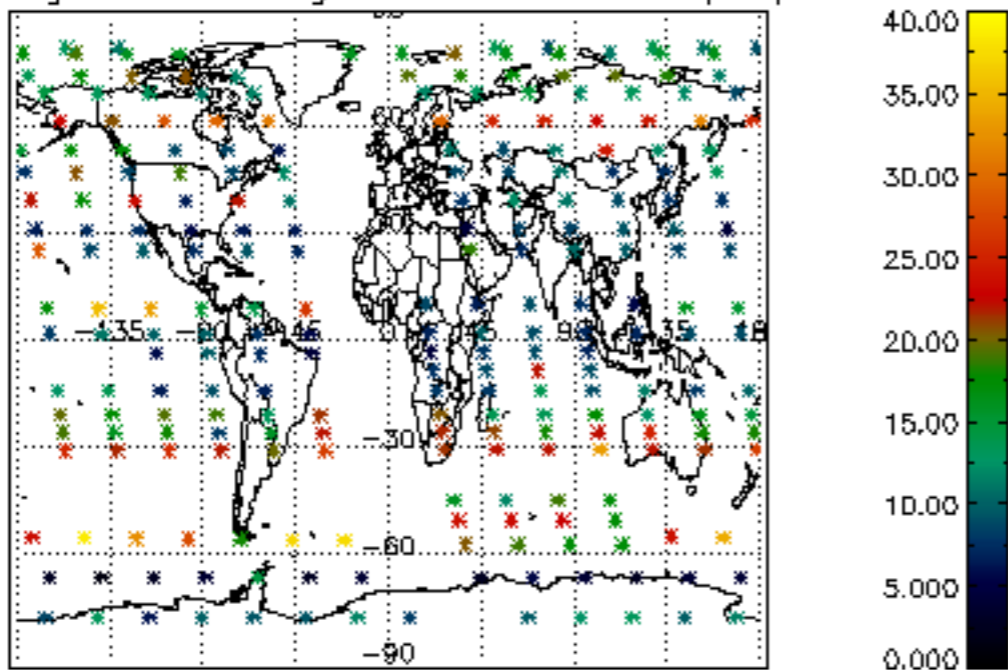
Percentage of cosmic ray hits per profile



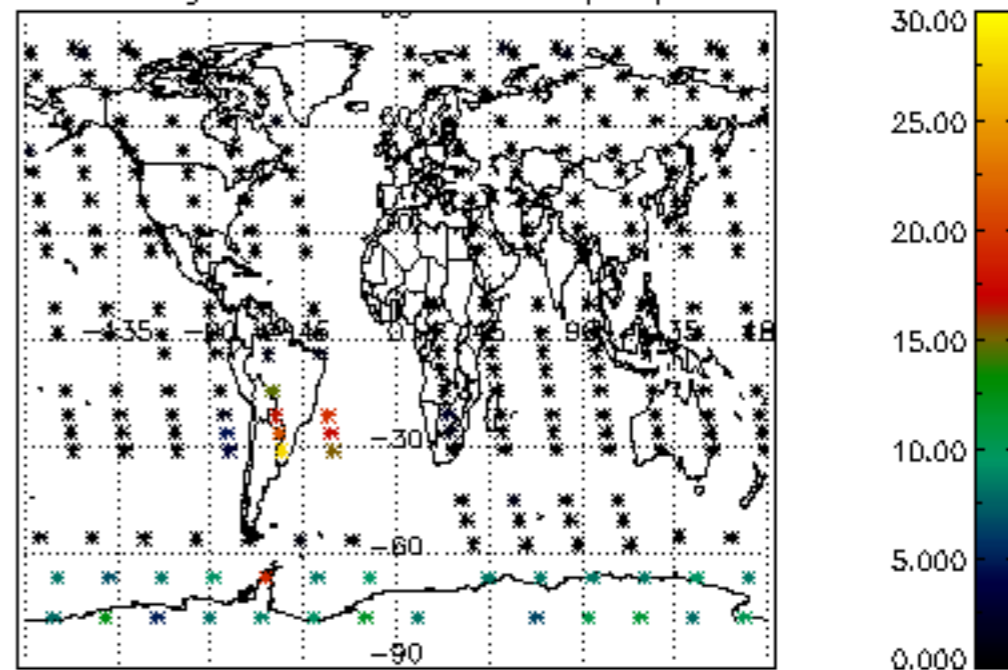
Percentage of datation errors per profile



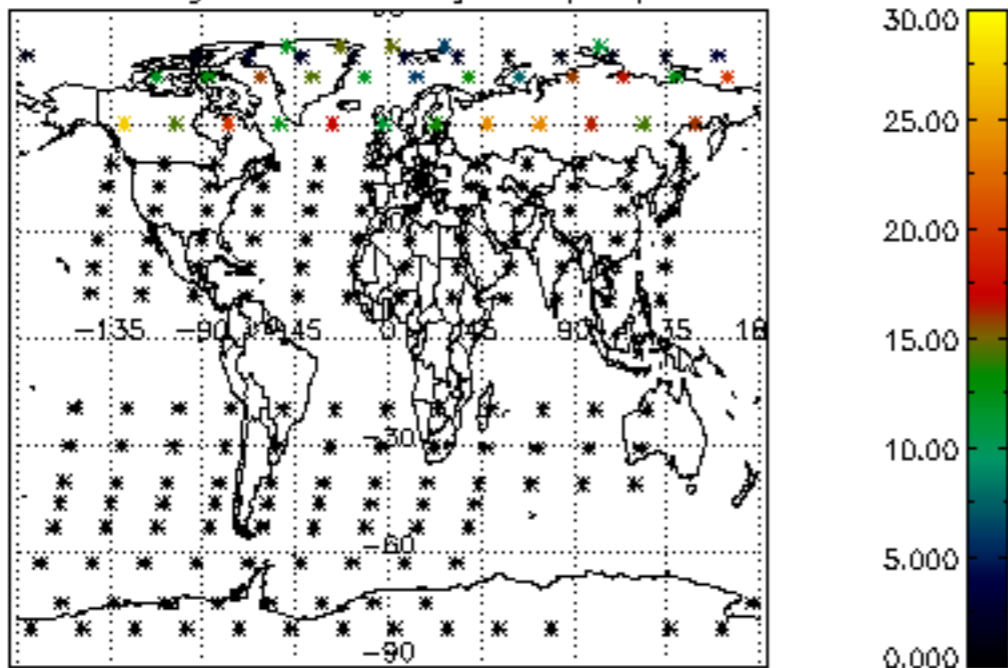
Percentage of star falling outside central band per profile



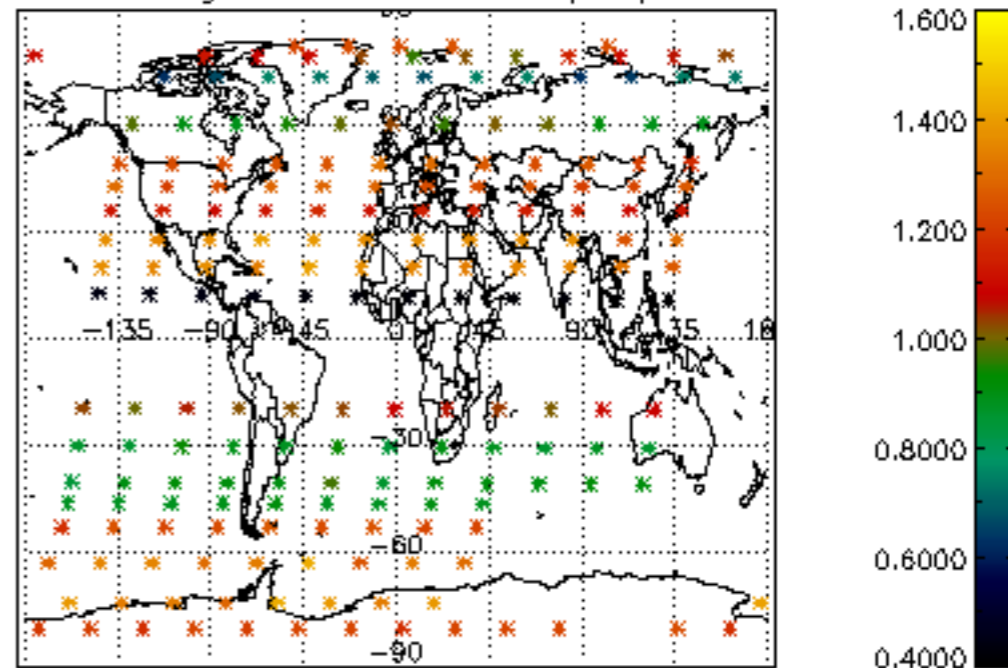
Percentage of saturation errors per profile



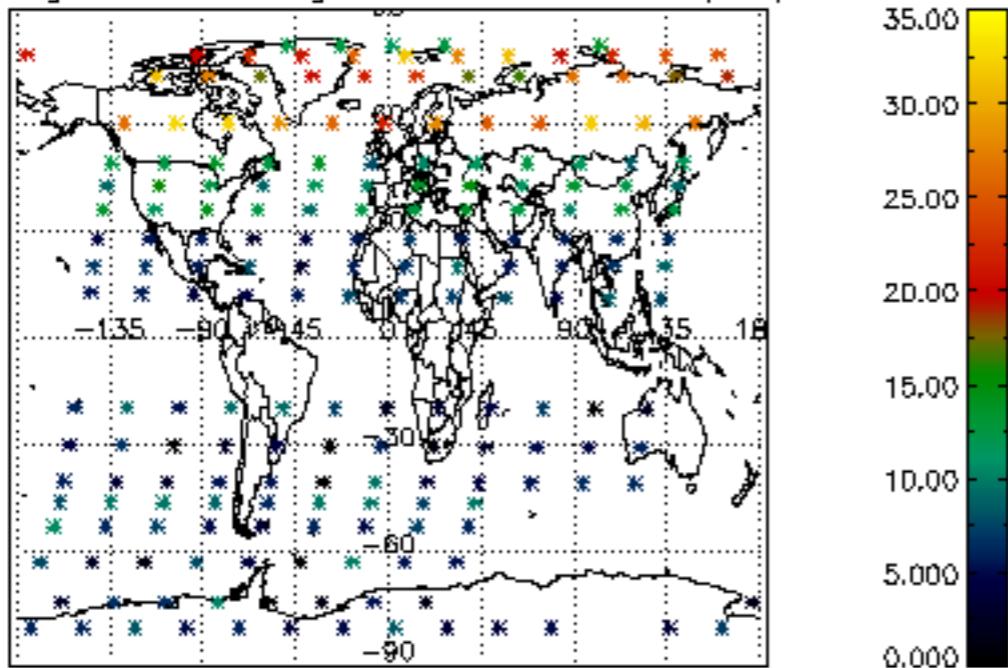
Percentage of cosmic ray hits per profile



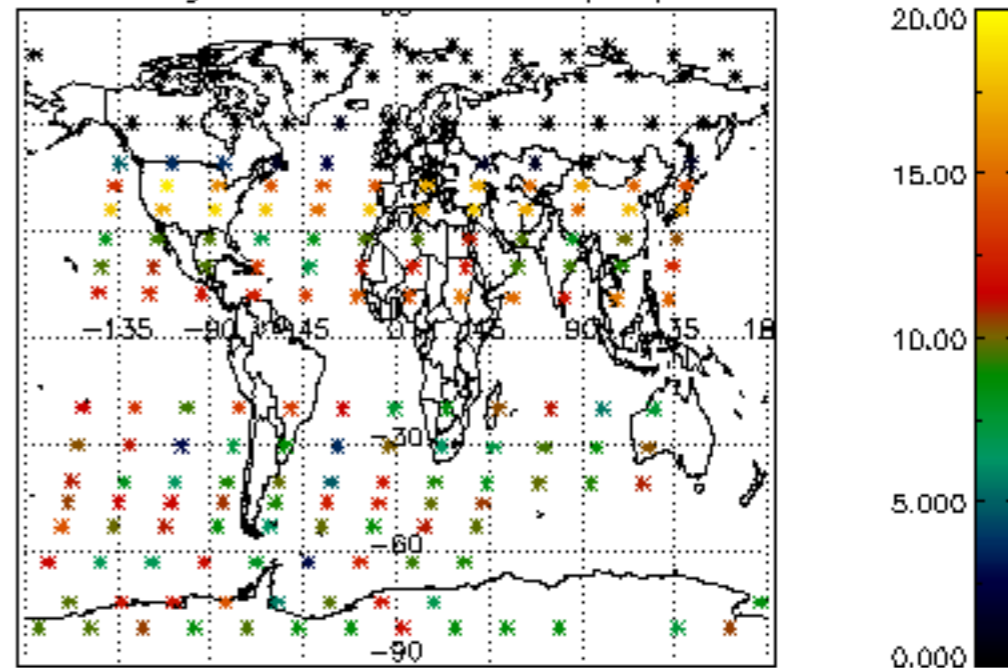
Percentage of datation errors per profile

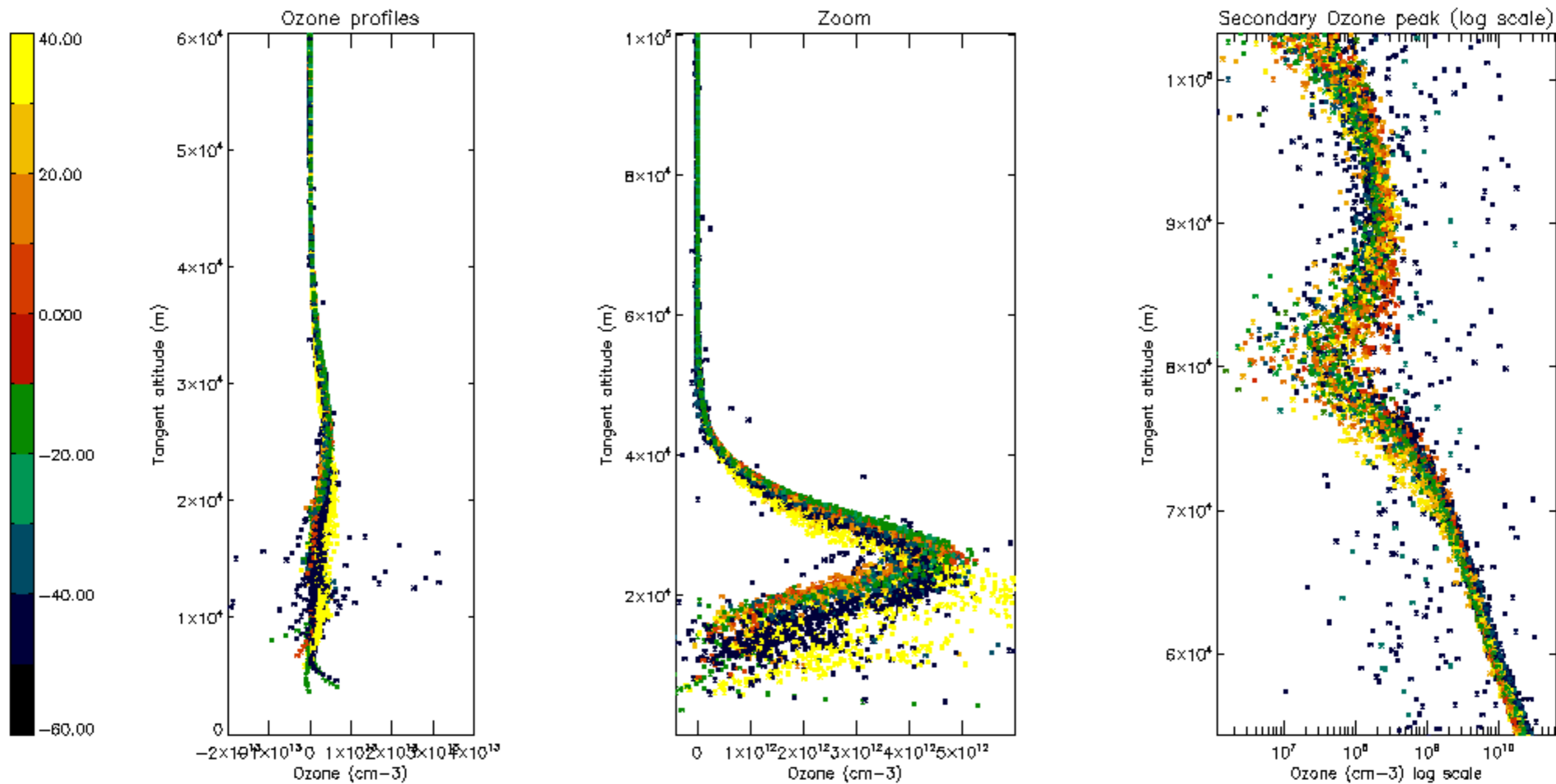


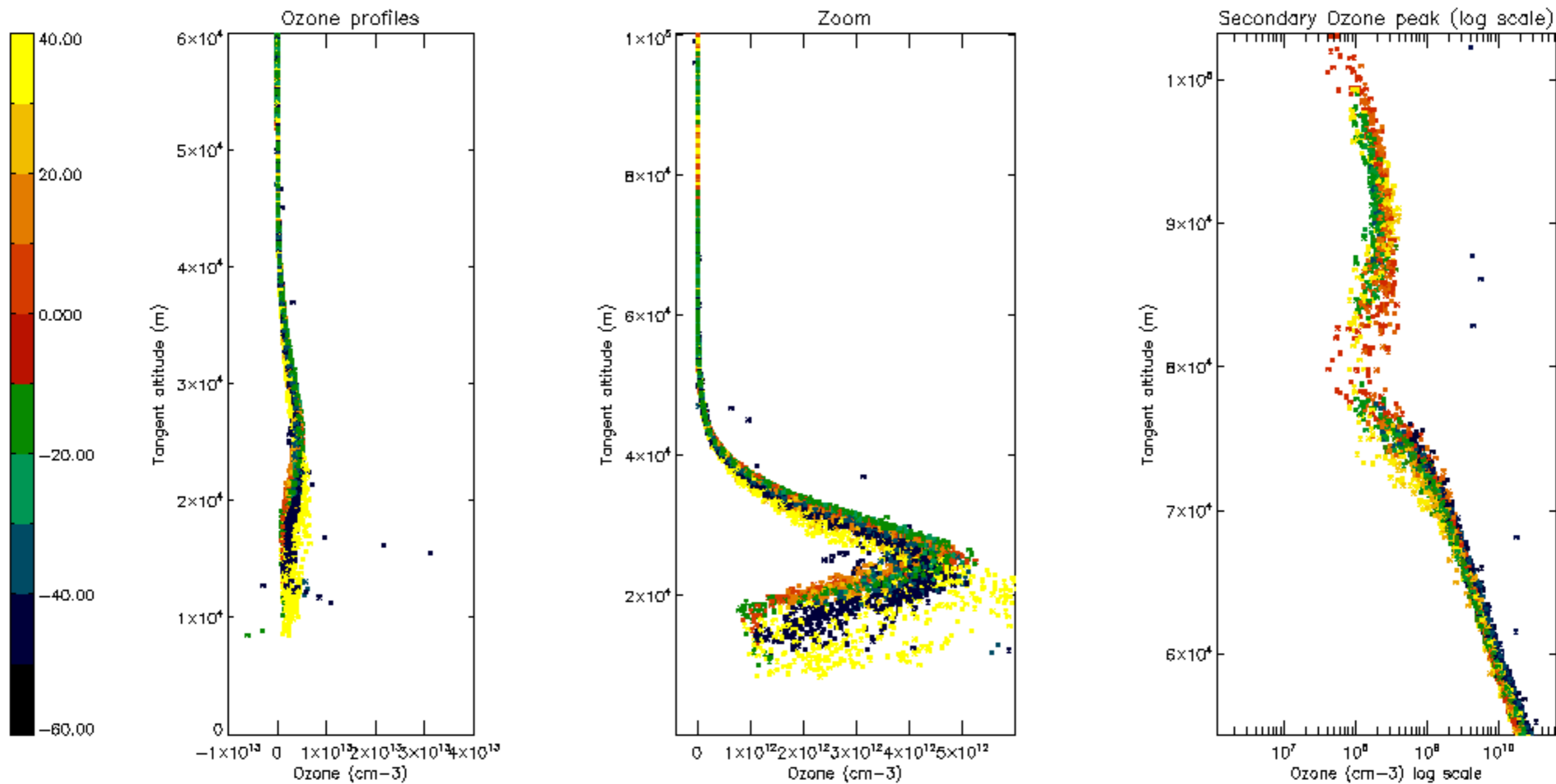
Percentage of star falling outside central band per profile

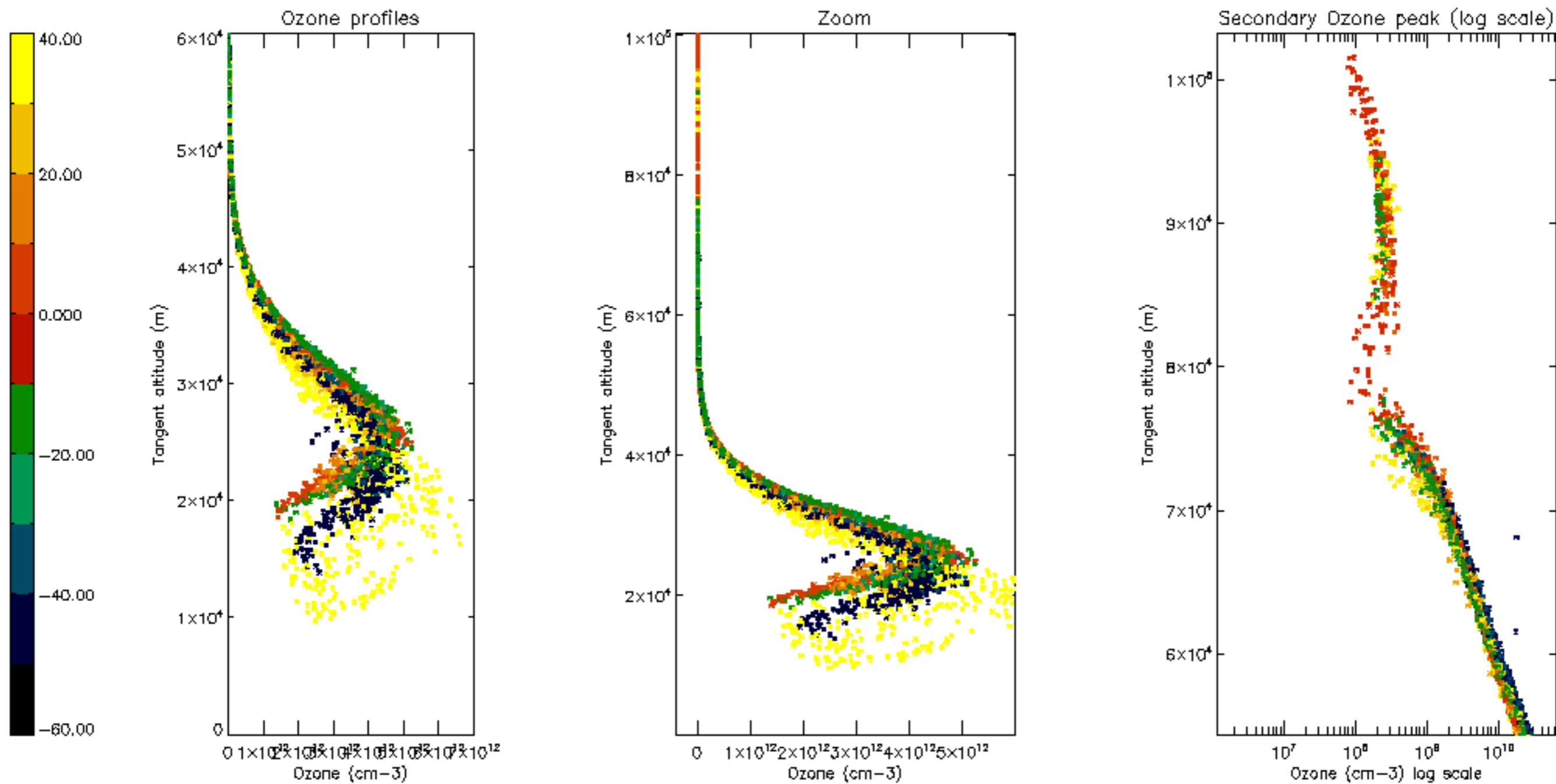


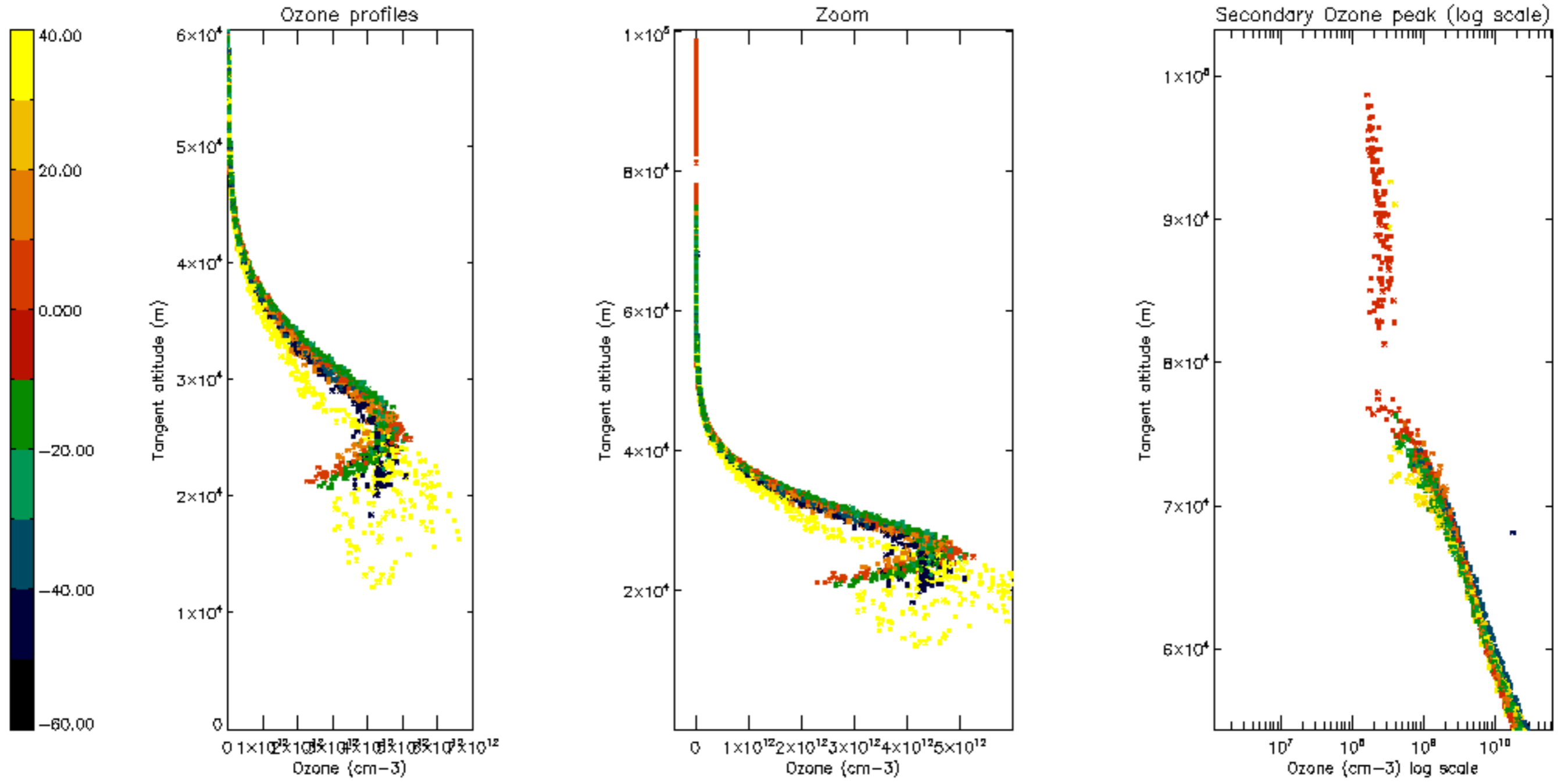
Percentage of saturation errors per profile

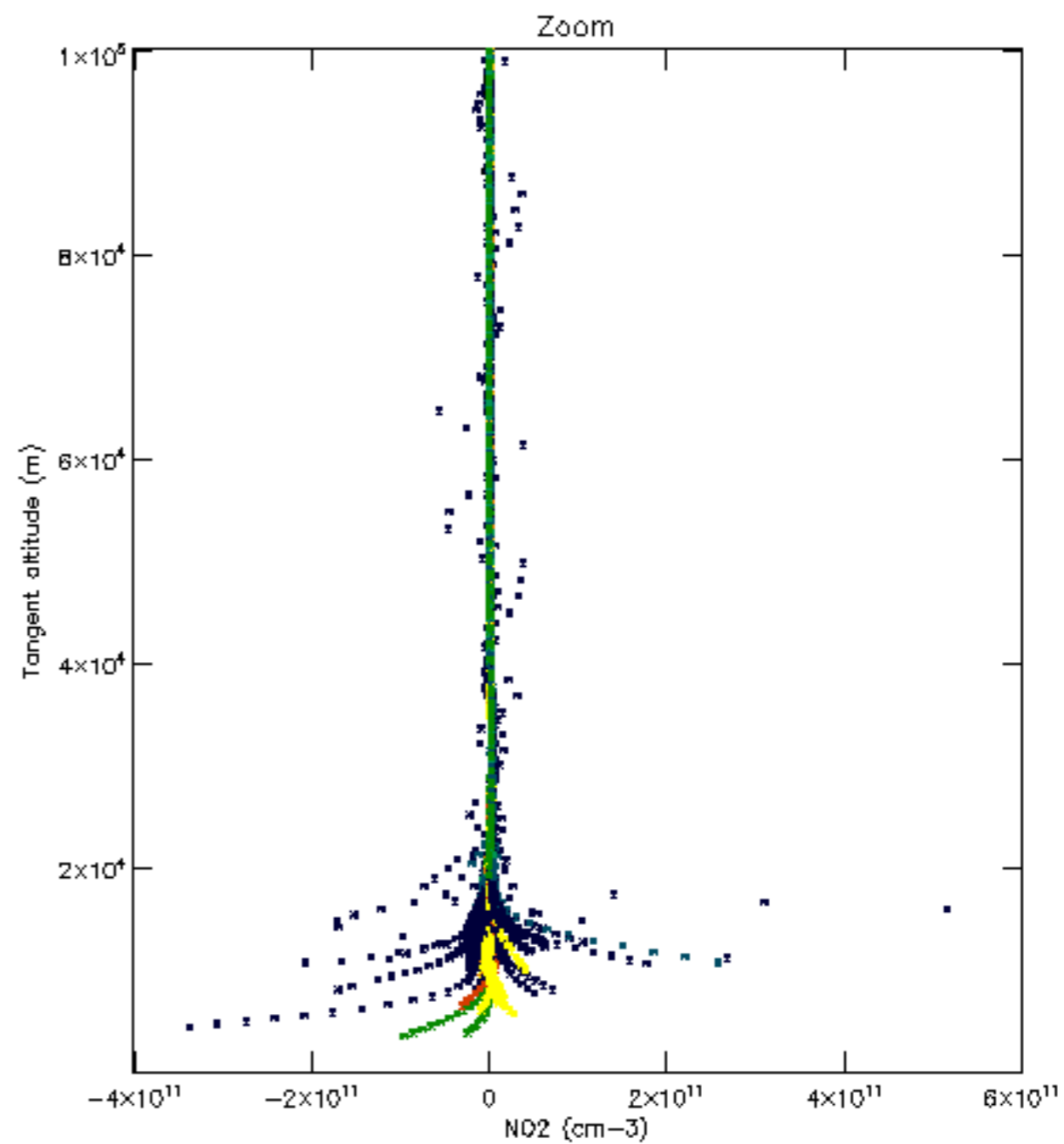
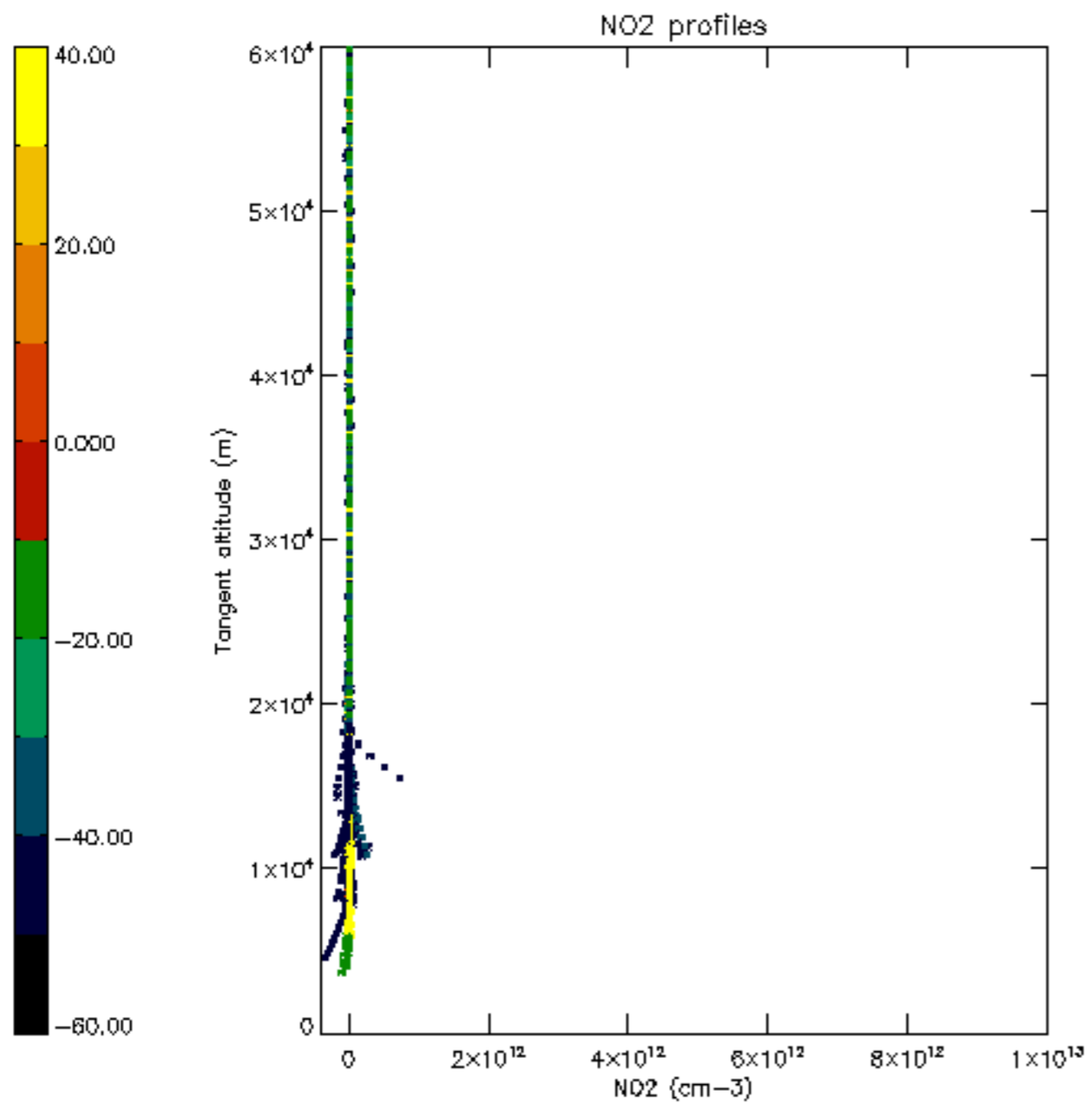


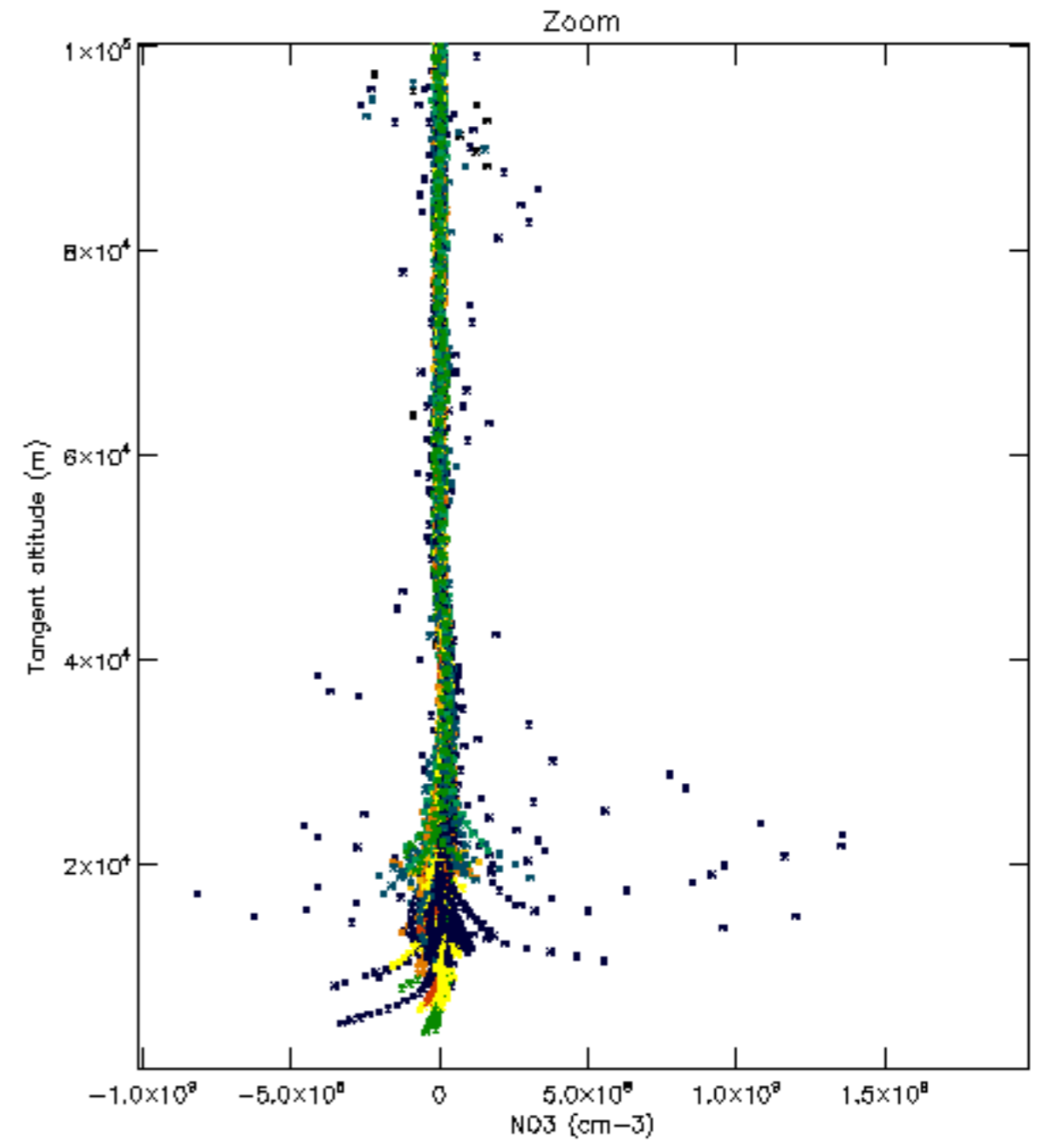
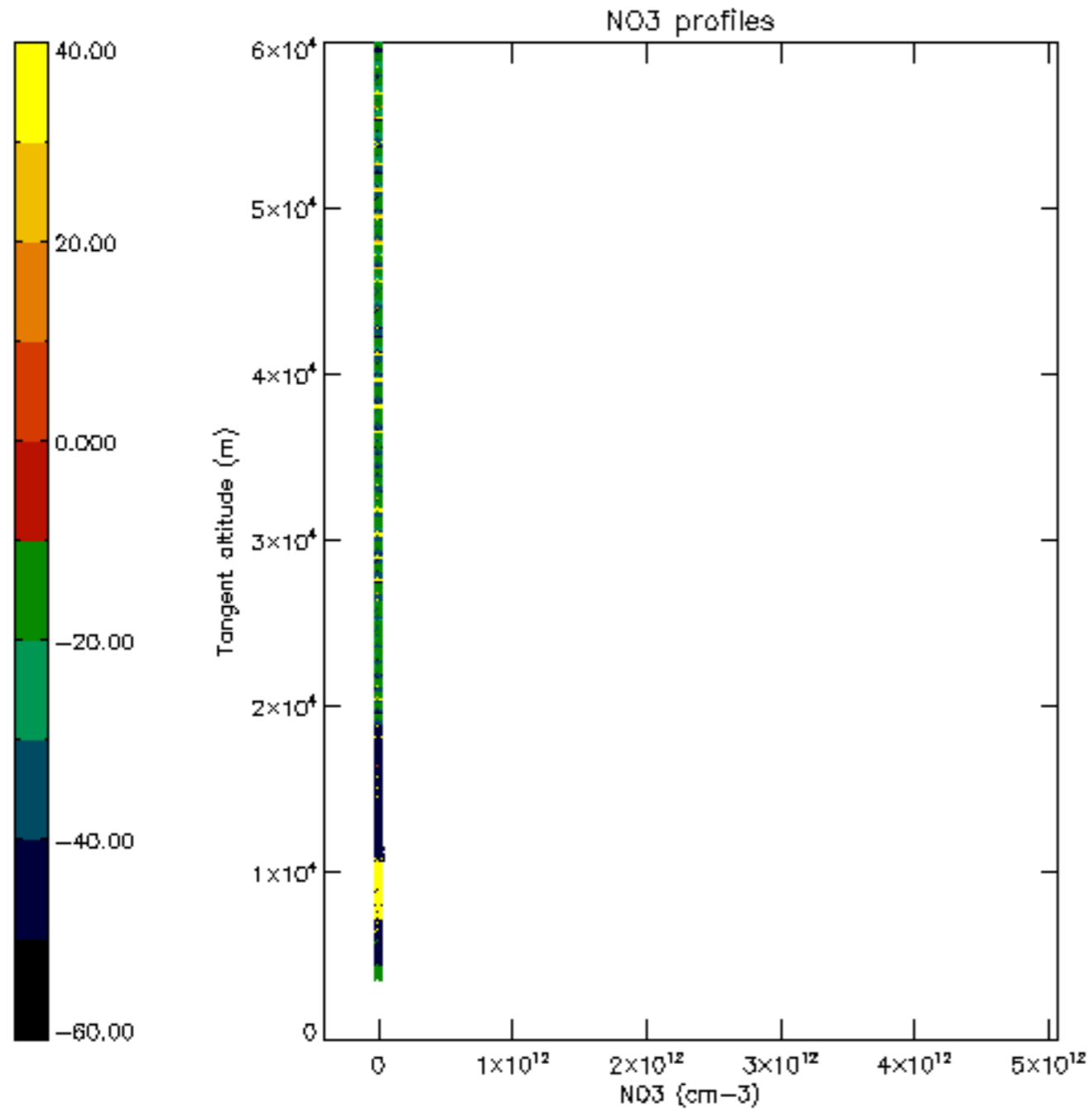




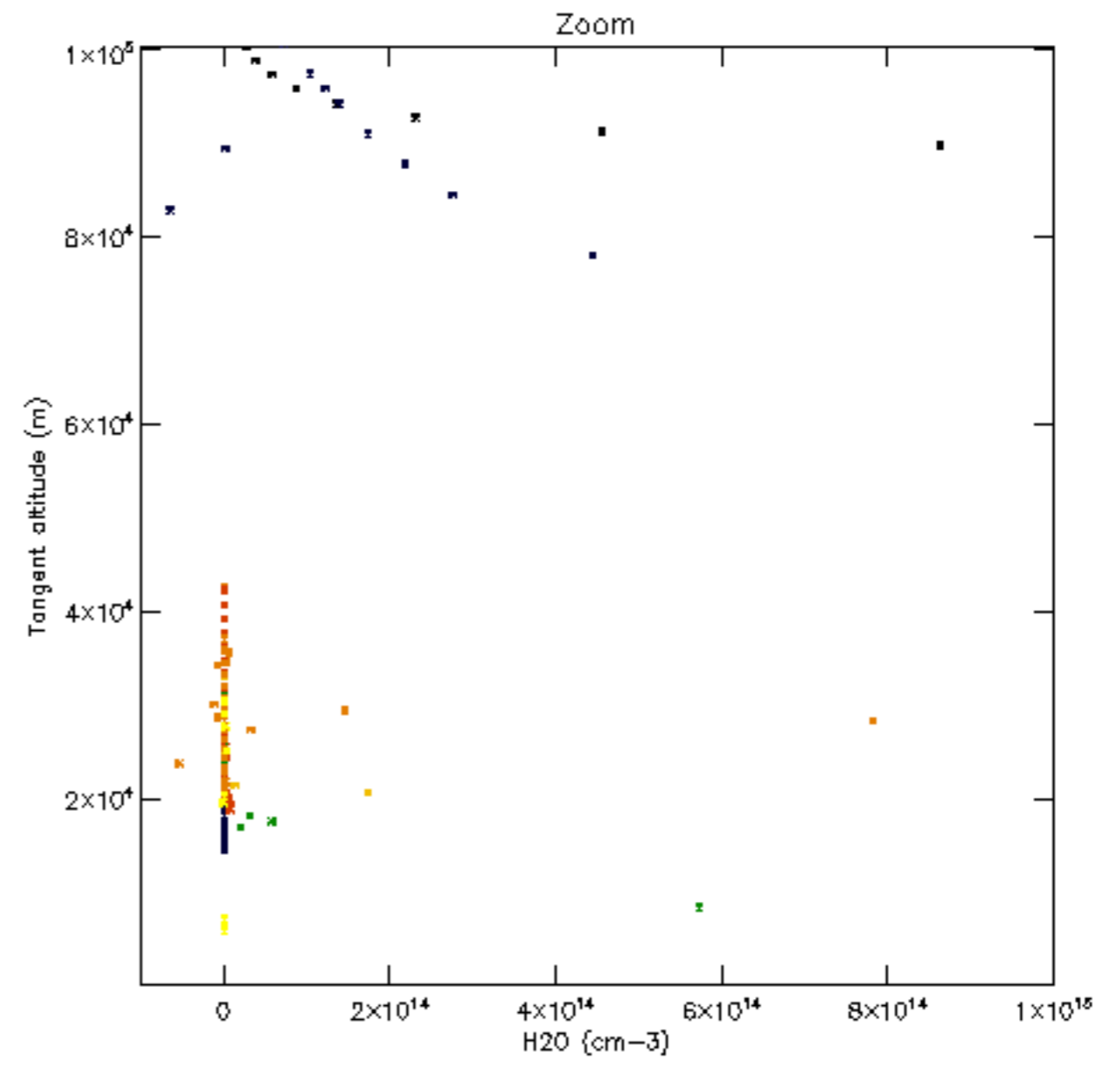
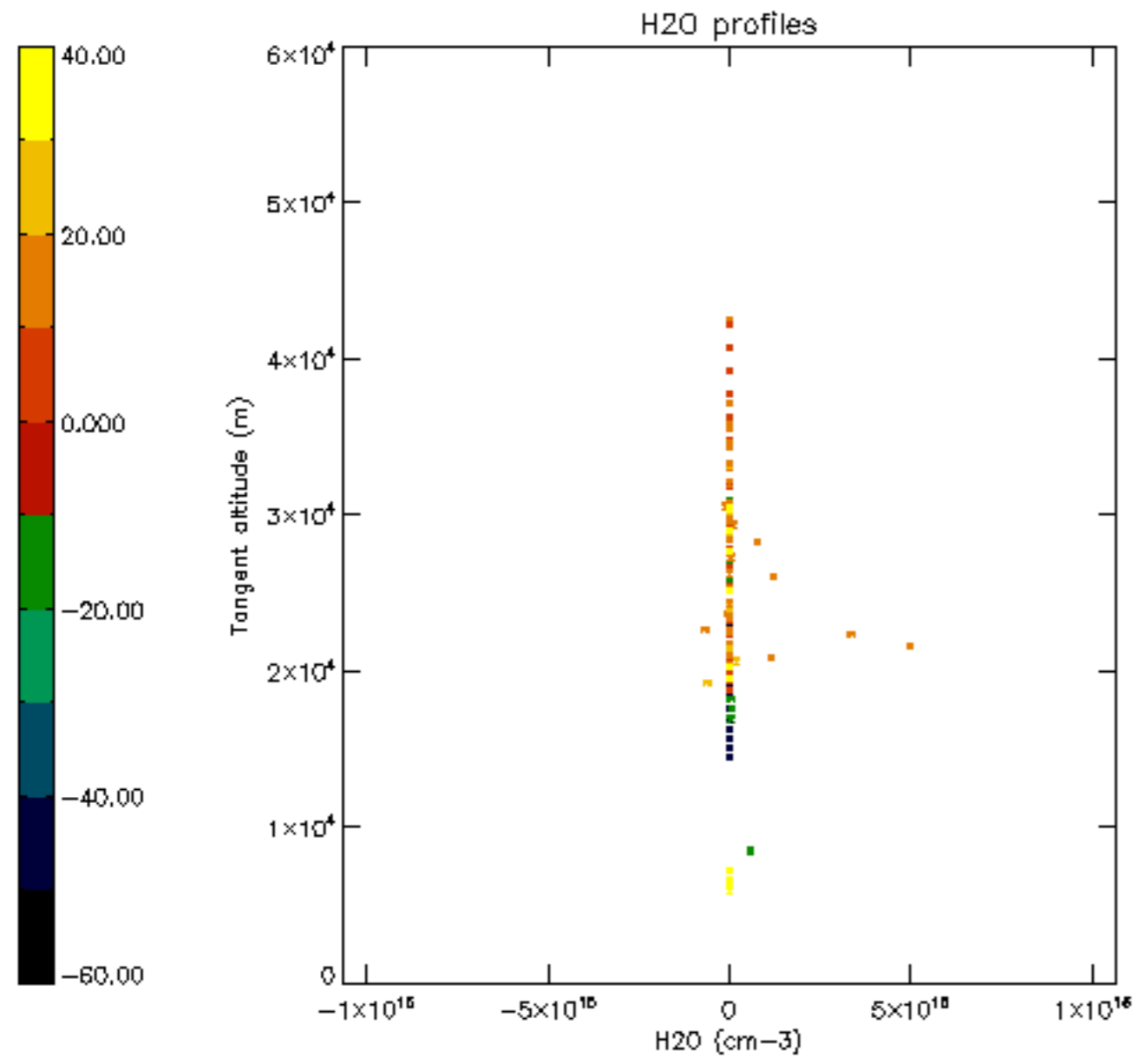


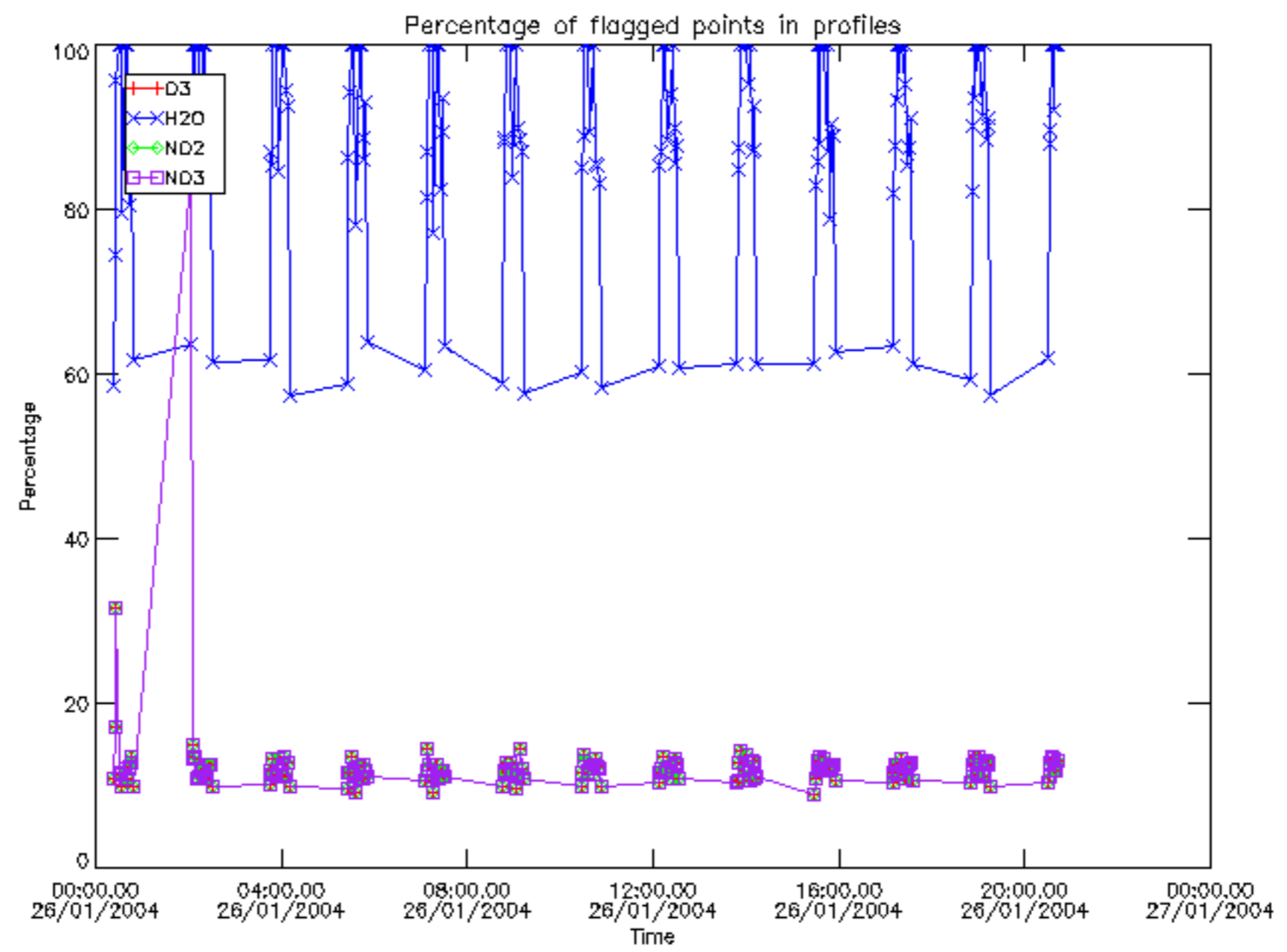




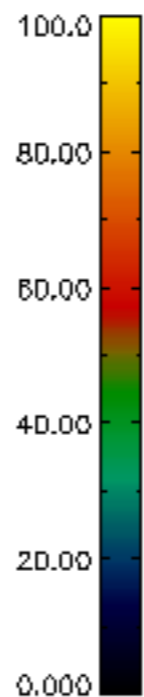
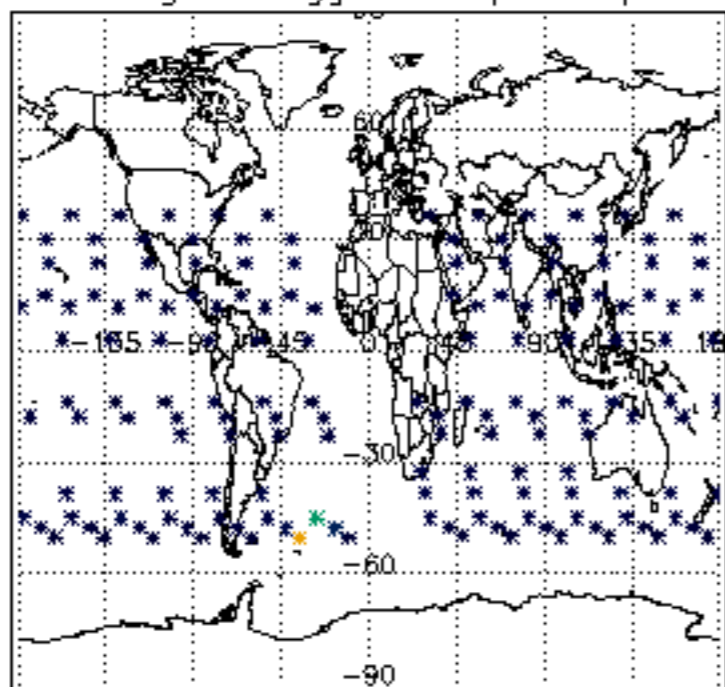




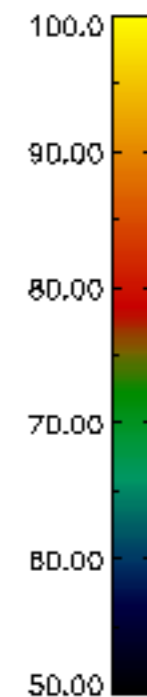
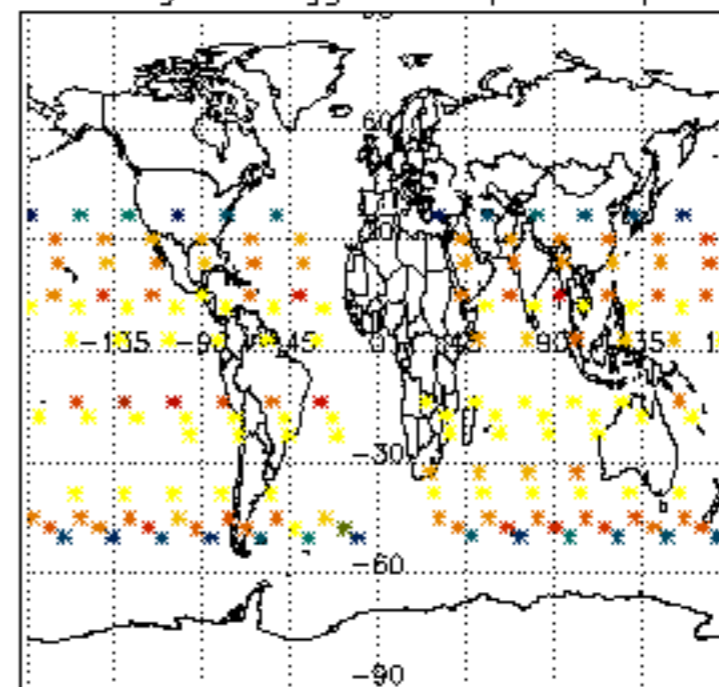




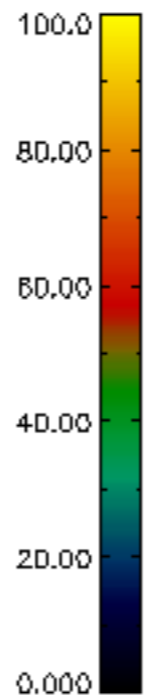
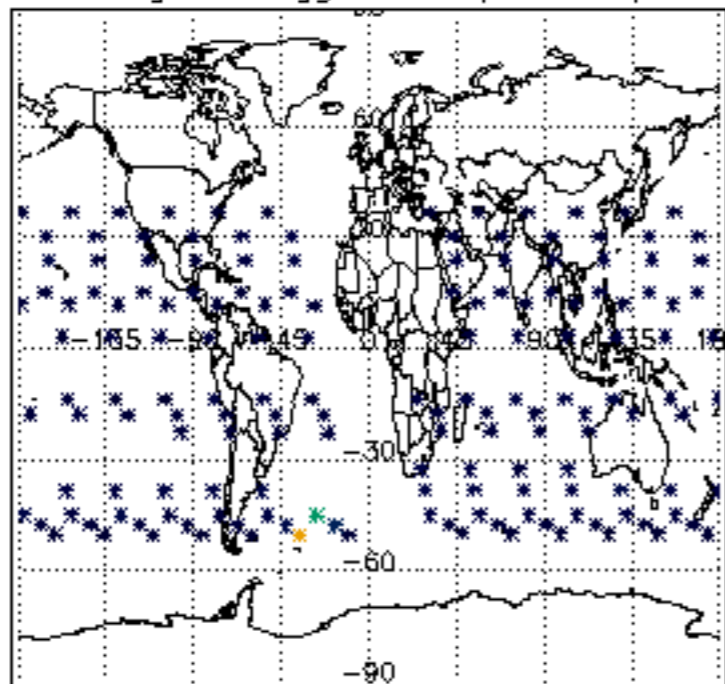
Percentage of flagged data per D3 profile



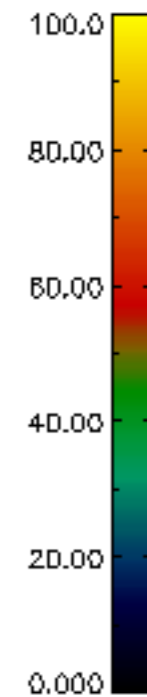
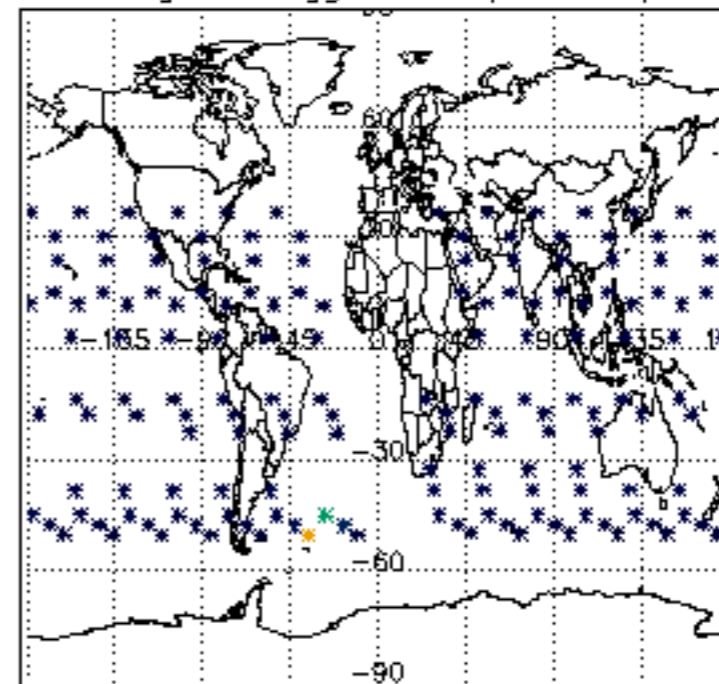
Percentage of flagged data per H2O profile

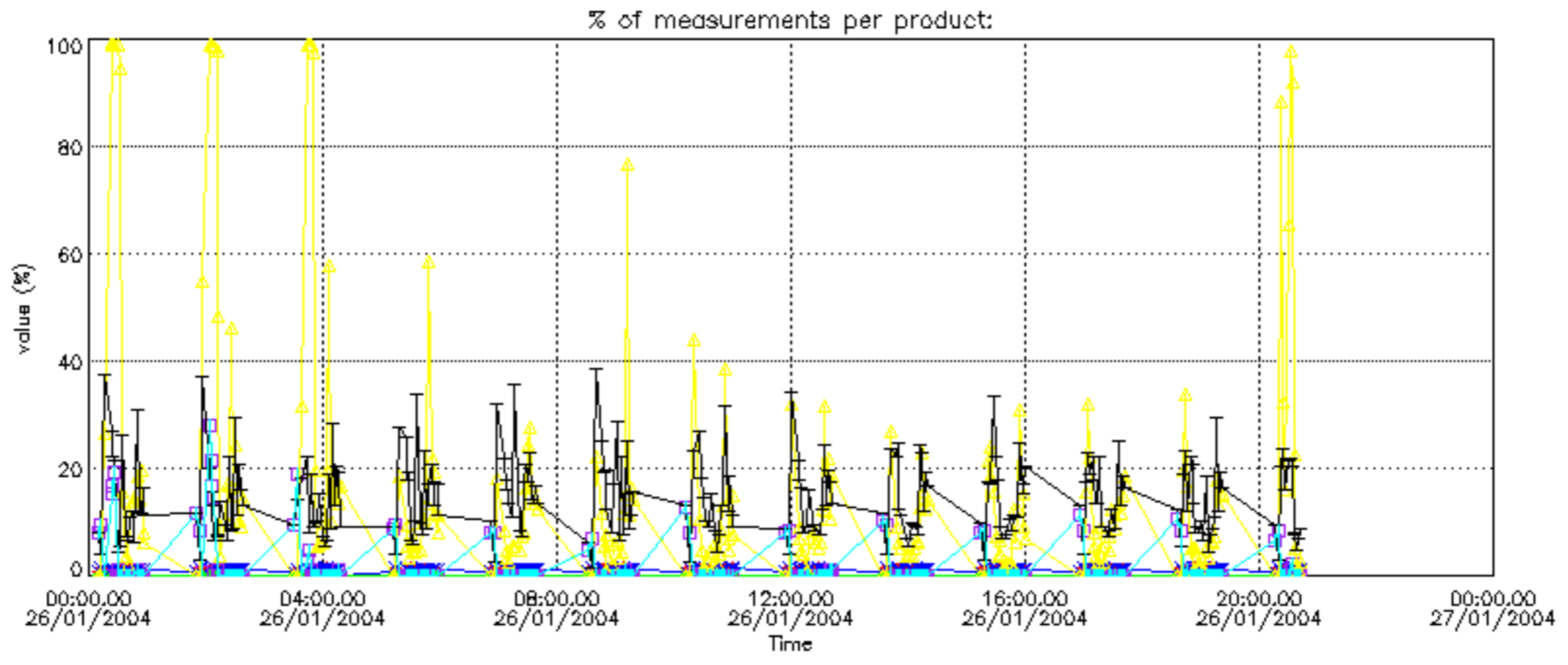


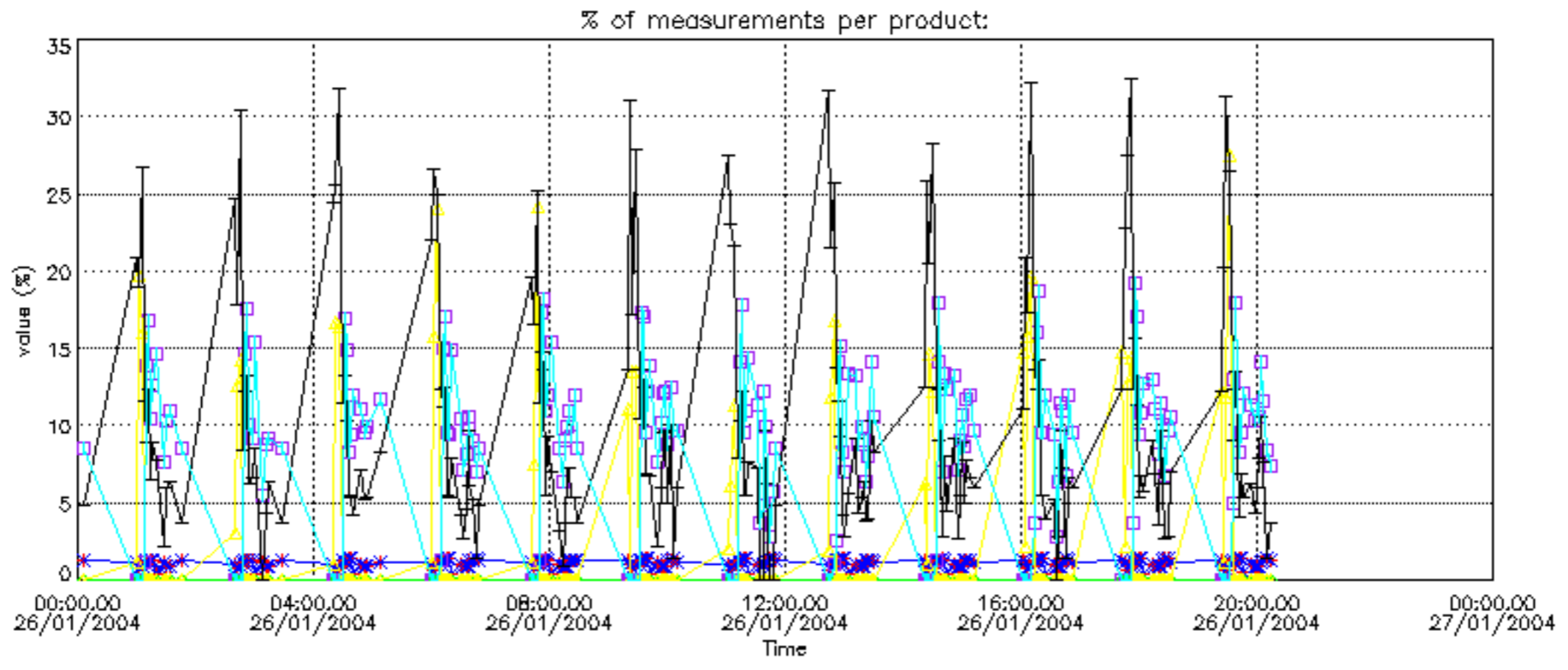
Percentage of flagged data per NO2 profile



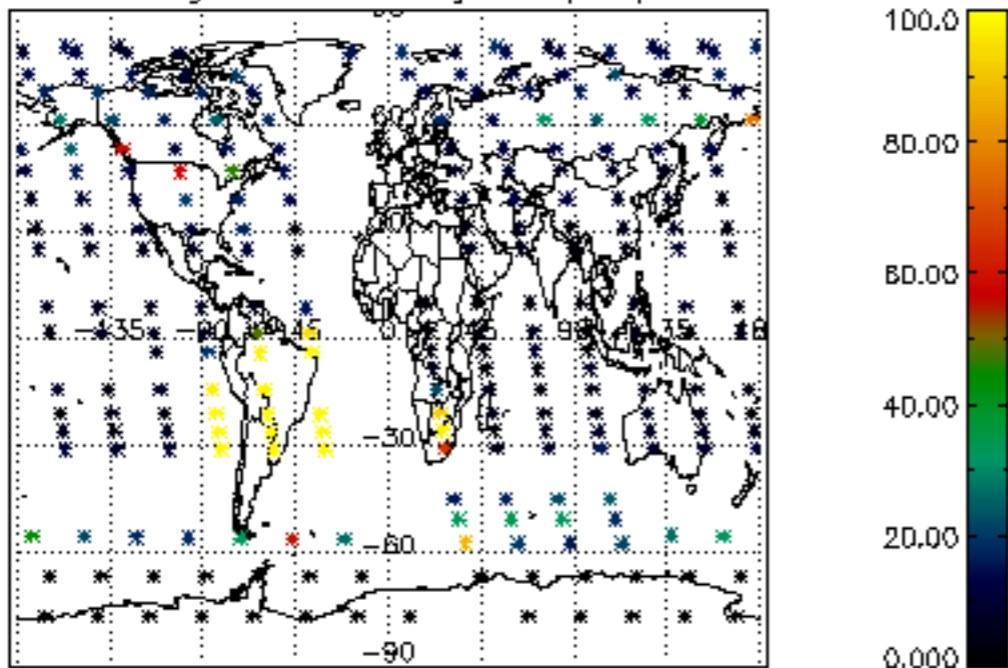
Percentage of flagged data per NO3 profile



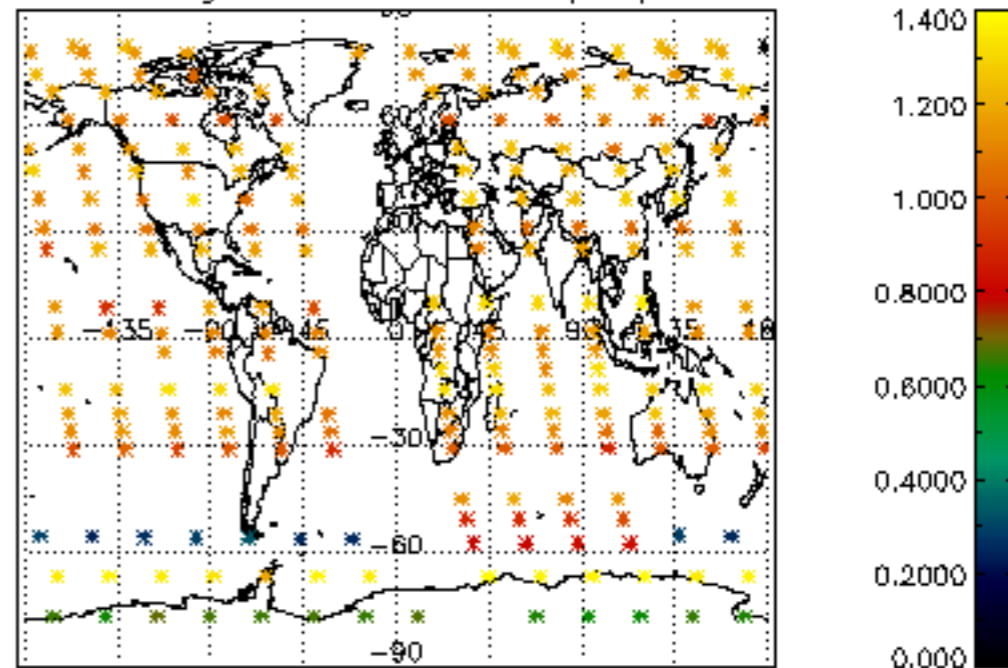




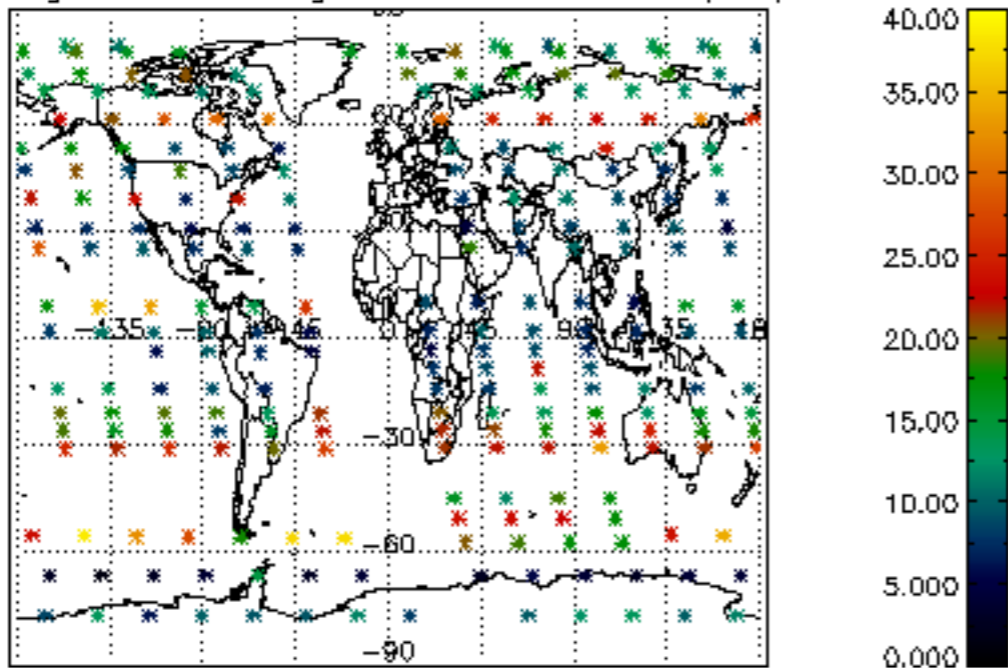
Percentage of cosmic ray hits per profile



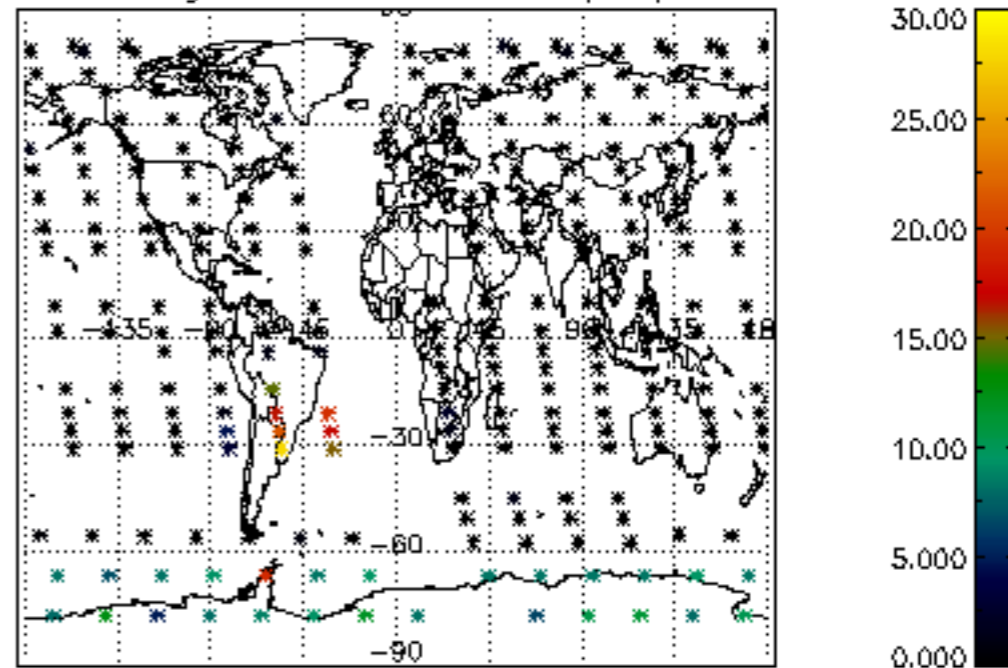
Percentage of datation errors per profile



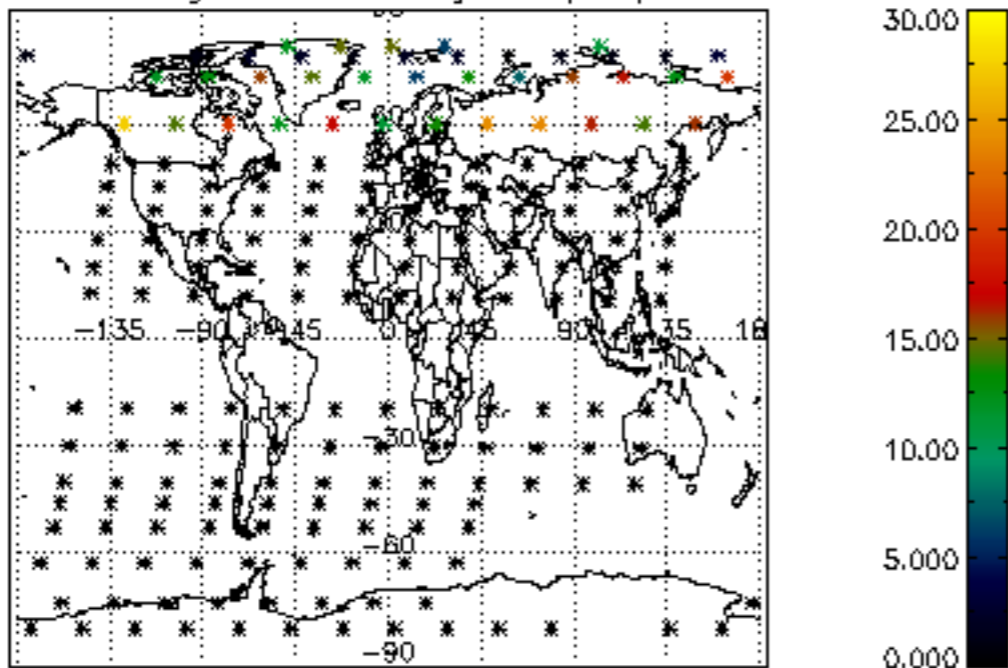
Percentage of star falling outside central band per profile



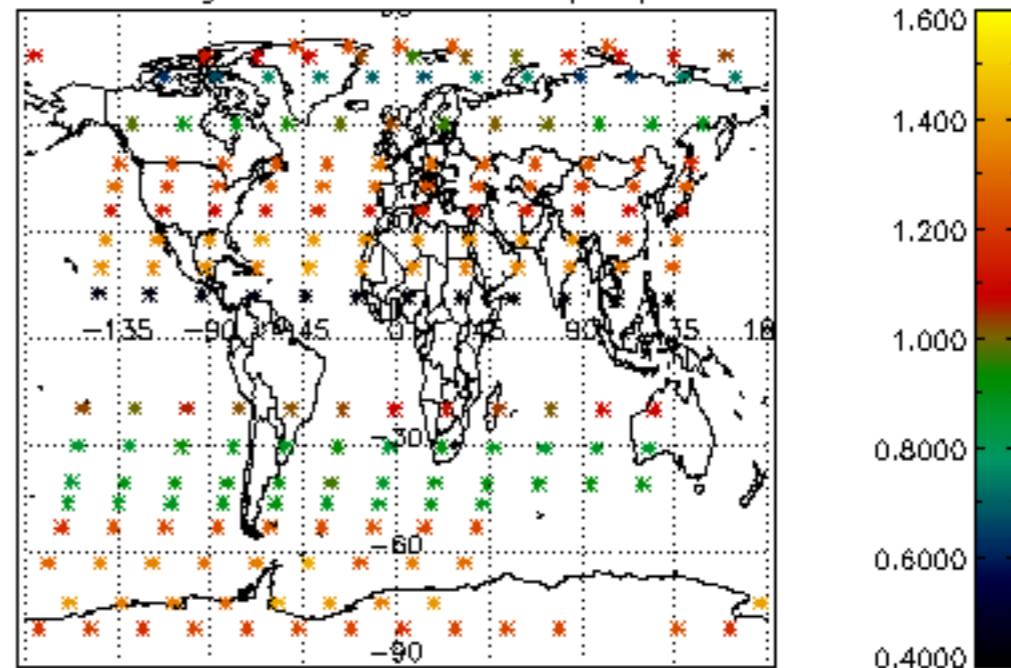
Percentage of saturation errors per profile



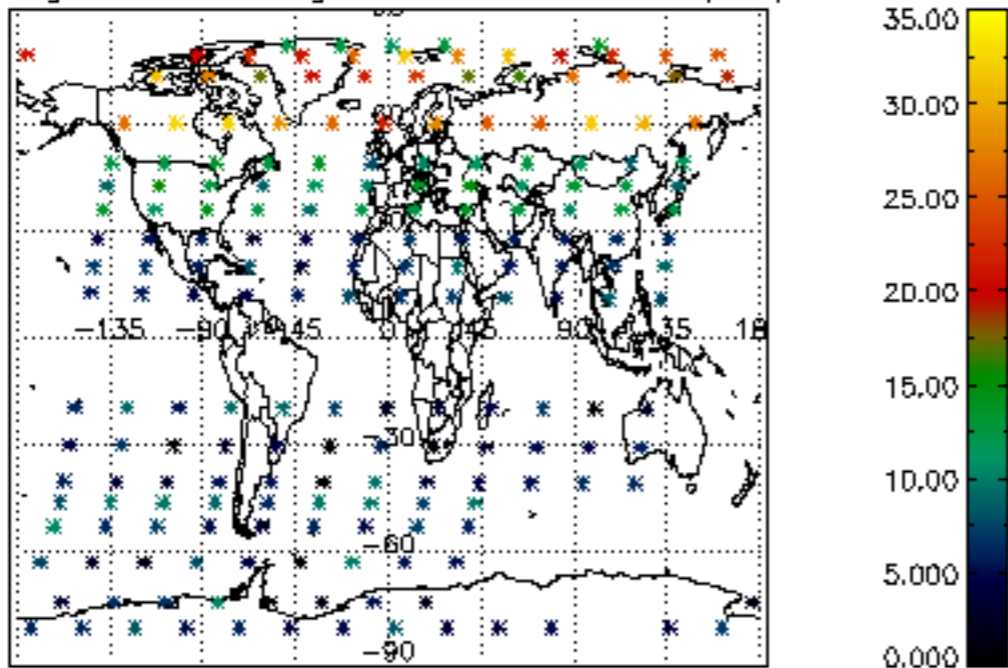
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

