

# 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 12:56:04
Data source version	GOMOS/6.01
Start time of products	10-10-2004 (10OCT2004 00:00:00)
Stop time of products	11-10-2004 (11OCT2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	392
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__2PRFIN20041010_000012_000000752031_00073_13654_4684.N1	10-OCT-2004 00:00:12	Bright	75.000	17	78Bet Gem	1.1610	4500.0	150	13654	No
2	GOM_NL__2PRFIN20041010_000252_000000412031_00073_13654_4685.N1	10-OCT-2004 00:02:52	Bright	41.000	22	32Alp Leo	1.3600	15200.	82	13654	No
3	GOM_NL__2PRFIN20041010_000951_000000522031_00073_13654_4686.N1	10-OCT-2004 00:09:51	Twilight	51.500	48	30Alp Hya	1.9770	4100.0	103	13654	No
4	GOM_NL__2PRFIN20041010_001155_000001042031_00073_13654_4687.N1	10-OCT-2004 00:11:55	Dark	103.50	8	10Alp CMi	0.40000	6500.0	207	13654	No
5	GOM_NL__2PRFIN20041010_001928_000000482031_00073_13654_4688.N1	10-OCT-2004 00:19:28	Dark	48.000	65	Lam Vel	2.2040	4400.0	96	13654	No
6	GOM_NL__2PRFIN20041010_002226_000000452031_00073_13654_4689.N1	10-OCT-2004 00:22:26	Dark	44.500	34	Gam2Vel	1.7930	23000.	89	13654	No
7	GOM_NL__2PRFIN20041010_002631_000000492031_00074_13655_4862.N1	10-OCT-2004 00:26:31	Dark	49.000	161	Tau Pup	2.9310	4500.0	98	13655	No
8	GOM_NL__2PRFIN20041010_002754_000000612031_00074_13655_4863.N1	10-OCT-2004 00:27:54	Dark	61.000	2	Alp Car	-0.73600	7000.0	122	13655	No
9	GOM_NL__2PRFIN20041010_003150_000000682031_00074_13655_4864.N1	10-OCT-2004 00:31:50	Dark	67.500	108	Alp Col	2.6520	15200.	135	13655	No
10	GOM_NL__2PRFIN20041010_003622_000000402031_00074_13655_4865.N1	10-OCT-2004 00:36:22	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	13655	No
11	GOM_NL__2PRFIN20041010_003749_000000452031_00074_13655_4866.N1	10-OCT-2004 00:37:49	Dark	45.000	9	Alp Eri	0.45300	24000.	90	13655	No
12	GOM_NL__2PRFIN20041010_004004_000000522031_00074_13655_4867.N1	10-OCT-2004 00:40:04	Straylight	51.500	157	The1Eri	2.9060	9300.0	103	13655	No
13	GOM_NL__2PRFIN20041010_004257_000000452031_00074_13655_4868.N1	10-OCT-2004 00:42:57	Straylight	44.500	84	Alp Phe	2.3970	4500.0	89	13655	No
14	GOM_NL__2PRFIN20041010_004726_000000472031_00074_13655_4869.N1	10-OCT-2004 00:47:26	Straylight	47.000	18	24Alp PsA	1.1660	9700.0	94	13655	No
15	GOM_NL__2PRFIN20041010_004936_000000512031_00074_13655_4870.N1	10-OCT-2004 00:49:36	Straylight	50.500	52	16Bet Cet	2.0370	4500.0	101	13655	No
16	GOM_NL__2PRFIN20041010_005930_000000392031_00074_13655_4871.N1	10-OCT-2004 00:59:30	Bright	39.000	140	88Gam Peg	2.8340	26000.	78	13655	No
17	GOM_NL__2PRFIN20041010_010318_000000422031_00074_13655_4872.N1	10-OCT-2004 01:03:18	Bright	41.500	93	53Bet Peg	2.5200	3100.0	83	13655	No
18	GOM_NL__2PRFIN20041010_010628_000000432031_00074_13655_4873.N1	10-OCT-2004 01:06:28	Bright	43.000	53	43Bet And	2.0480	3300.0	86	13655	No
19	GOM_NL__2PRFIN20041010_010839_000000512031_00074_13655_4874.N1	10-OCT-2004 01:08:39	Bright	51.000	173	4Bet Tri	3.0040	8900.0	102	13655	No
20	GOM_NL__2PRFIN20041010_011022_000000522031_00074_13655_4875.N1	10-OCT-2004 01:10:22	Bright	51.500	73	57Gam1And	2.2600	13100.	103	13655	No
21	GOM_NL__2PRFIN20041010_011207_000000402031_00074_13655_4876.N1	10-OCT-2004 01:12:07	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	13655	No
22	GOM_NL__2PRFIN20041010_011337_000000422031_00074_13655_4877.N1	10-OCT-2004 01:13:37	Bright	41.500	110	37Del Cas	2.6780	8900.0	83	13655	No
23	GOM_NL__2PRFIN20041010_011551_000000492031_00074_13655_4878.N1	10-OCT-2004 01:15:51	Bright	48.500	160	23Gam Per	2.9300	4700.0	97	13655	No
24	GOM_NL__2PRFIN20041010_011743_000000572031_00074_13655_4879.N1	10-OCT-2004 01:17:43	Bright	56.500	175	39Del Per	3.0100	19400.	113	13655	No
25	GOM_NL__2PRFIN20041010_012029_000000382031_00074_13655_4880.N1	10-OCT-2004 01:20:29	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	13655	No
26	GOM_NL__2PRFIN20041010_012309_000000382031_00074_13655_4881.N1	10-OCT-2004 01:23:09	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	13655	No
27	GOM_NL__2PRFIN20041010_012555_000000842031_00074_13655_4882.N1	10-OCT-2004 01:25:55	Bright	84.000	6	13Alp Aur	0.080000	3400.0	168	13655	No
28	GOM_NL__2PRFIN20041010_012839_000000392031_00074_13655_4883.N1	10-OCT-2004 01:28:39	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	13655	No
29	GOM_NL__2PRFIN20041010_013011_000000372031_00074_13655_4884.N1	10-OCT-2004 01:30:11	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	13655	No
30	GOM_NL__2PRFIN20041010_013330_000000362031_00074_13655_4885.N1	10-OCT-2004 01:33:30	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	13655	No
31	GOM_NL__2PRFIN20041010_014048_000000962031_00074_13655_4886.N1	10-OCT-2004 01:40:48	Bright	96.000	17	78Bet Gem	1.1610	4500.0	192	13655	No
32	GOM_NL__2PRFIN20041010_014327_000000412031_00074_13655_4887.N1	10-OCT-2004 01:43:27	Bright	41.000	22	32Alp Leo	1.3600	15200.	82	13655	No
33	GOM_NL__2PRFIN20041010_015027_000000532031_00074_13655_4888.N1	10-OCT-2004 01:50:27	Twilight	52.500	48	30Alp Hya	1.9770	4100.0	105	13655	No
34	GOM_NL__2PRFIN20041010_015233_000001052031_00074_13655_4889.N1	10-OCT-2004 01:52:33	Dark	105.00	8	10Alp CMi	0.40000	6500.0	210	13655	No
35	GOM_NL__2PRFIN20041010_020005_000000482031_00074_13655_4890.N1	10-OCT-2004 02:00:05	Dark	47.500	65	Lam Vel	2.2040	4400.0	95	13655	No
36	GOM_NL__2PRFIN20041010_020708_000000482031_00075_13656_4862.N1	10-OCT-2004 02:07:08	Dark	48.000	161	Tau Pup	2.9310	4500.0	96	13656	No
37	GOM_NL__2PRFIN20041010_020831_000000612031_00075_13656_4863.N1	10-OCT-2004 02:08:31	Dark	60.500	2	Alp Car	-0.73600	7000.0	121	13656	No
38	GOM_NL__2PRFIN20041010_021227_000000682031_00075_13656_4864.N1	10-OCT-2004 02:12:27	Dark	68.000	108	Alp Col	2.6520	15200.	136	13656	No
39	GOM_NL__2PRFIN20041010_021658_000000412031_00075_13656_4865.N1	10-OCT-2004 02:16:58	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	13656	No
40	GOM_NL__2PRFIN20041010_021825_000000502031_00075_13656_4866.N1	10-OCT-2004 02:18:25	Dark	49.500	9	Alp Eri	0.45300	24000.	99	13656	No
41	GOM_NL__2PRFIN20041010_022041_000000512031_00075_13656_4867.N1	10-OCT-2004 02:20:41	Straylight	51.000	157	The1Eri	2.9060	9300.0	102	13656	No
42	GOM_NL__2PRFIN20041010_022334_000000432031_00075_13656_4868.N1	10-OCT-2004 02:23:34	Straylight	43.000	84	Alp Phe	2.3970	4500.0	86	13656	No









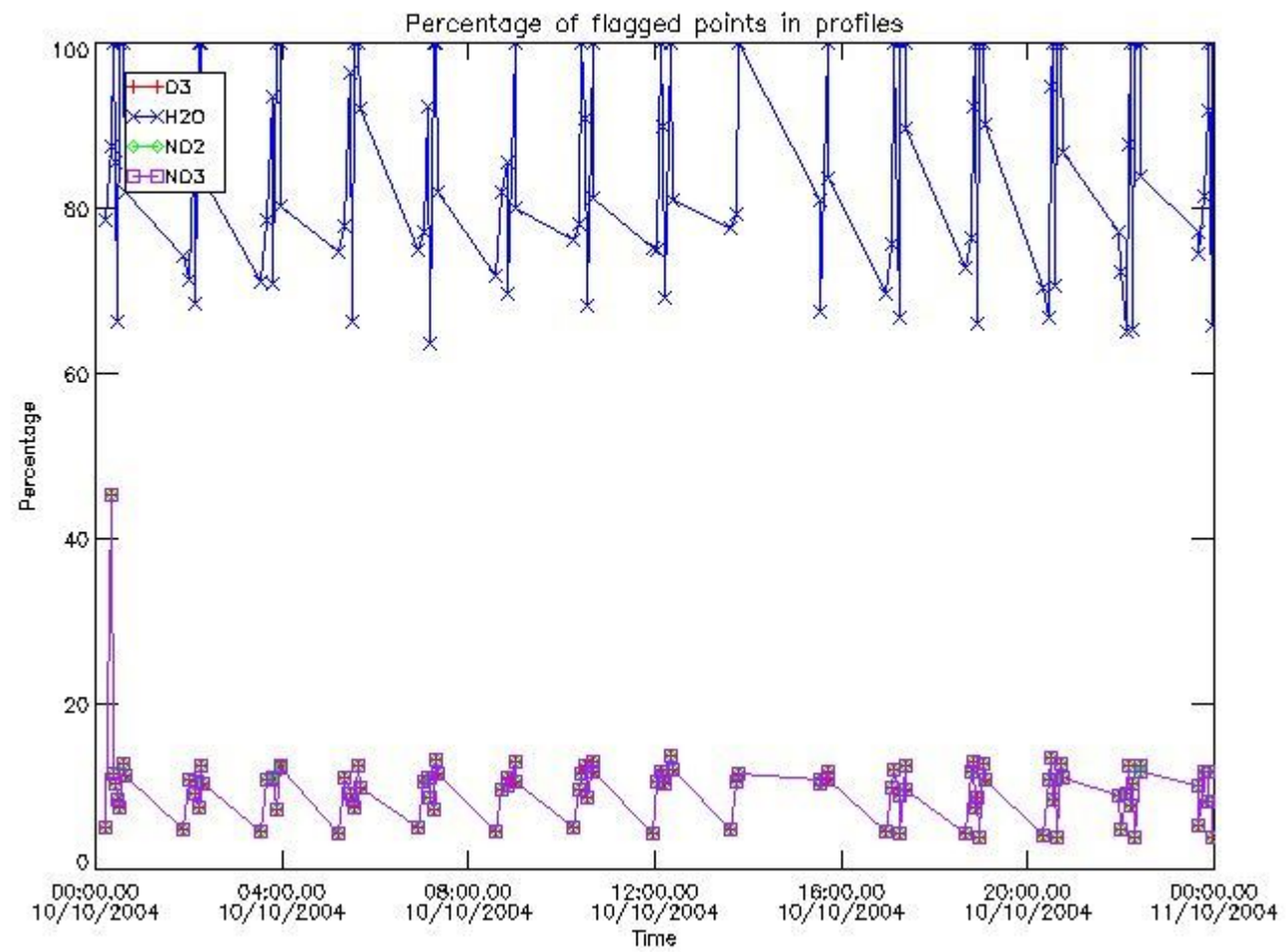






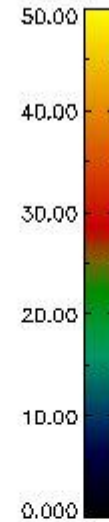
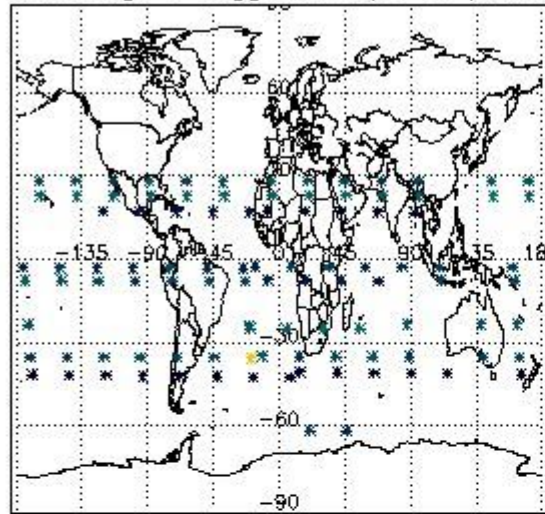
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

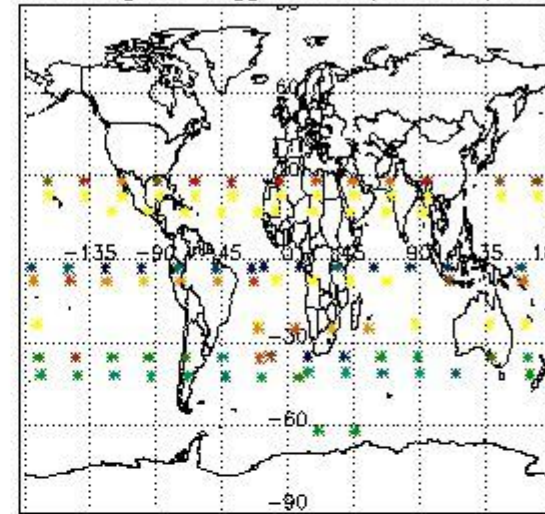


### 3.2 Plot quality information per product (world map)

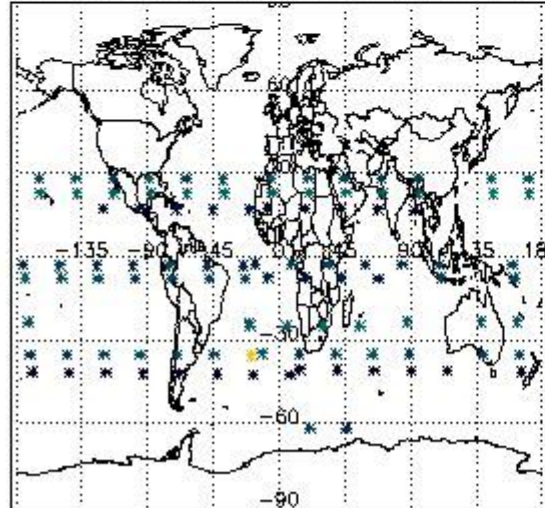
Percentage of flagged data per O3 profile



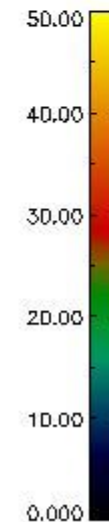
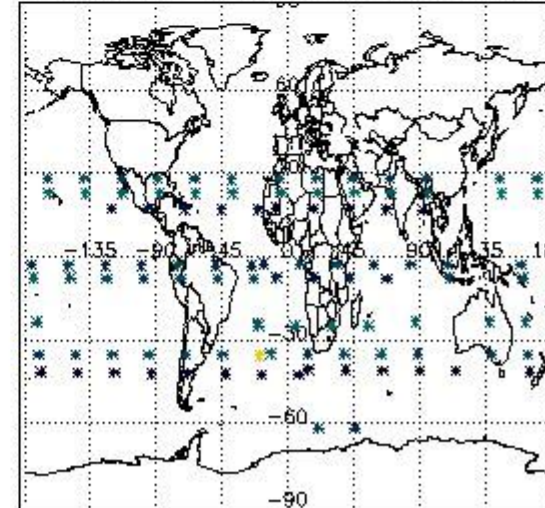
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

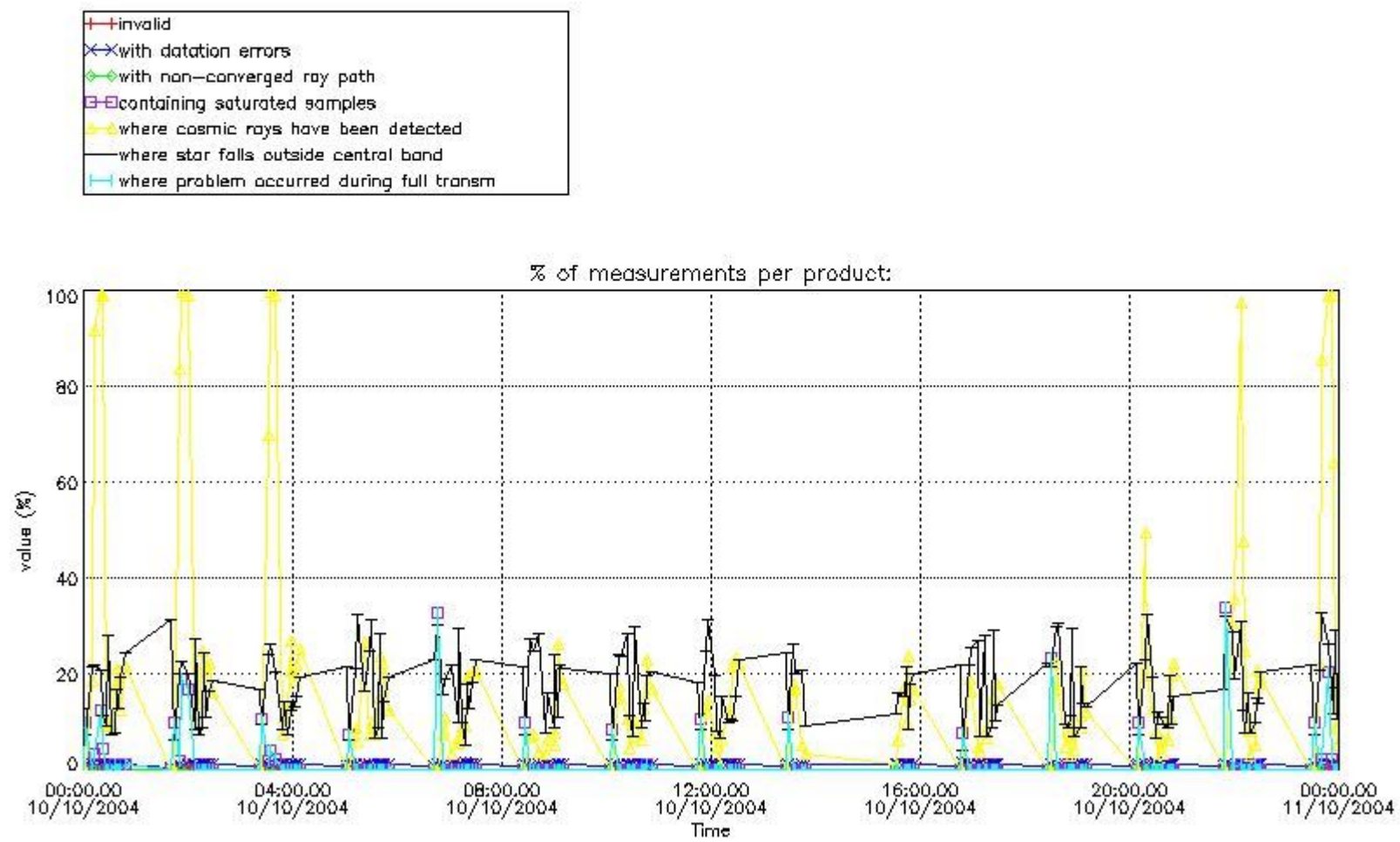


#### 4. Level 1 quality information per product

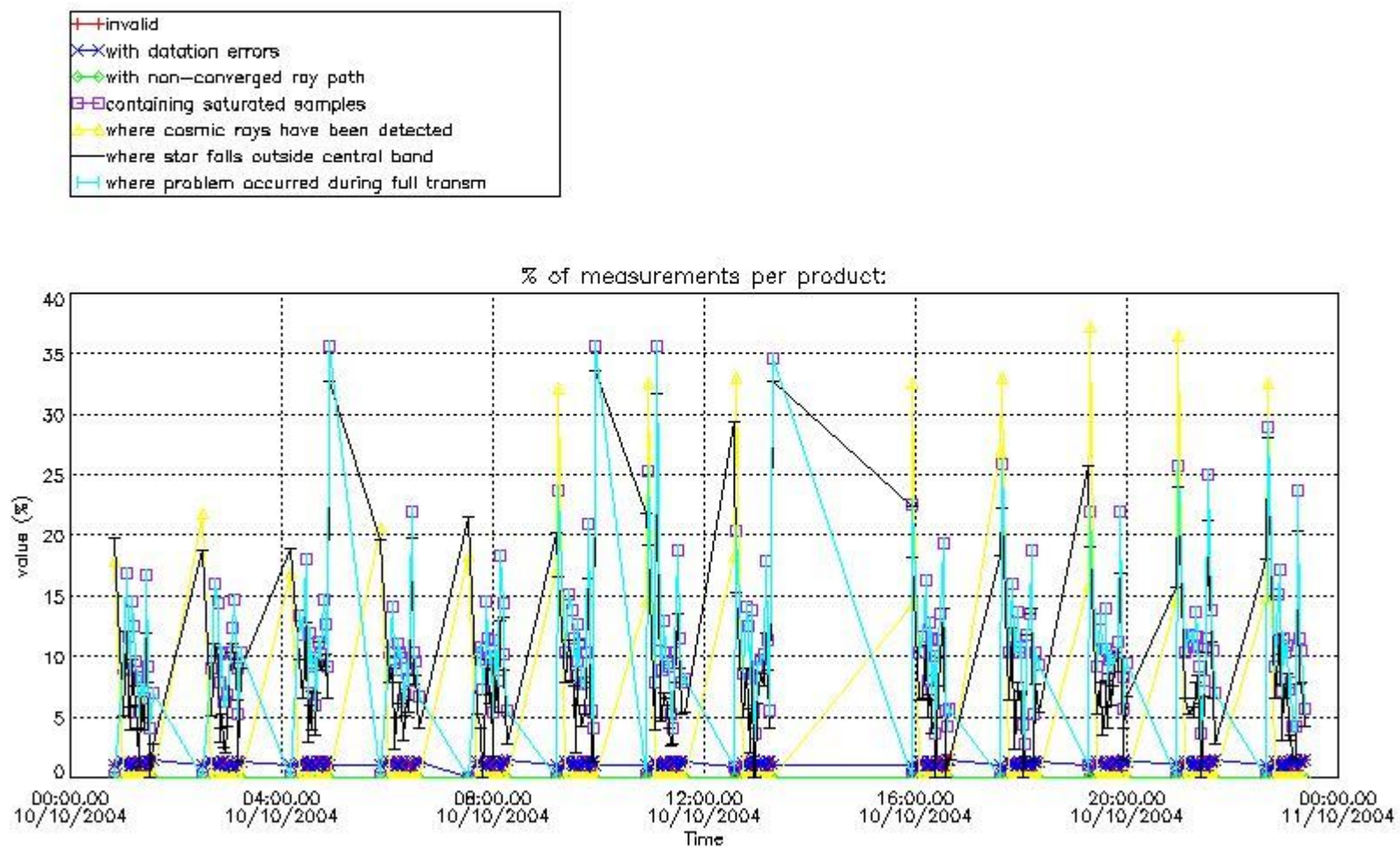
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



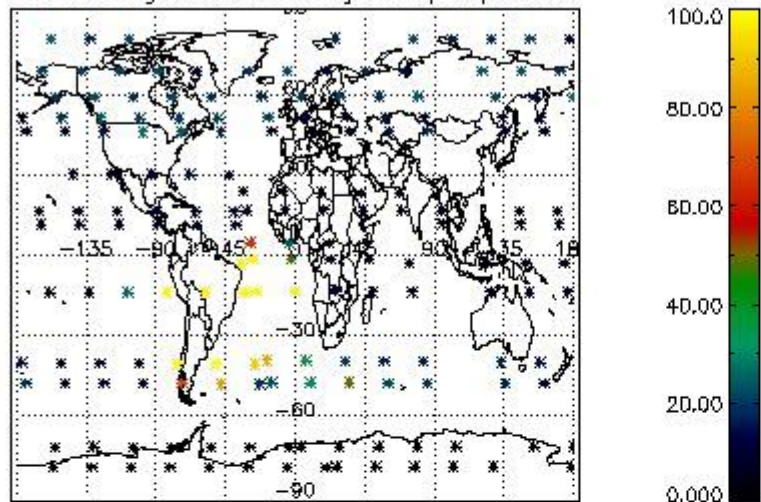
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



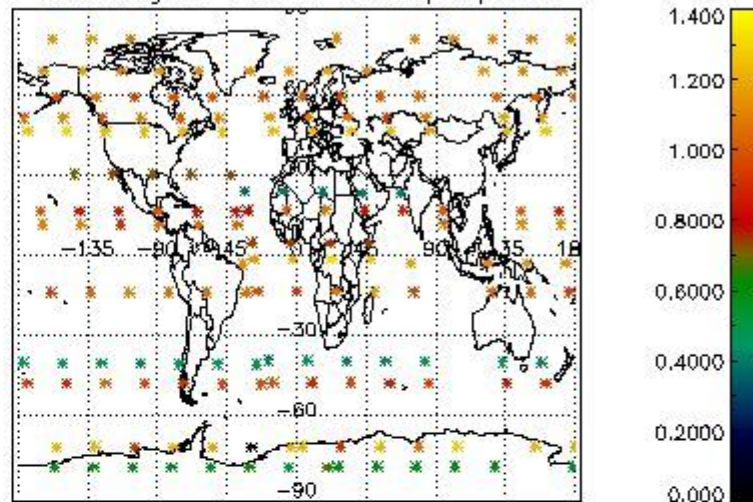
4.2 Plot quality information per product coming from level 1b processing (world map)

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

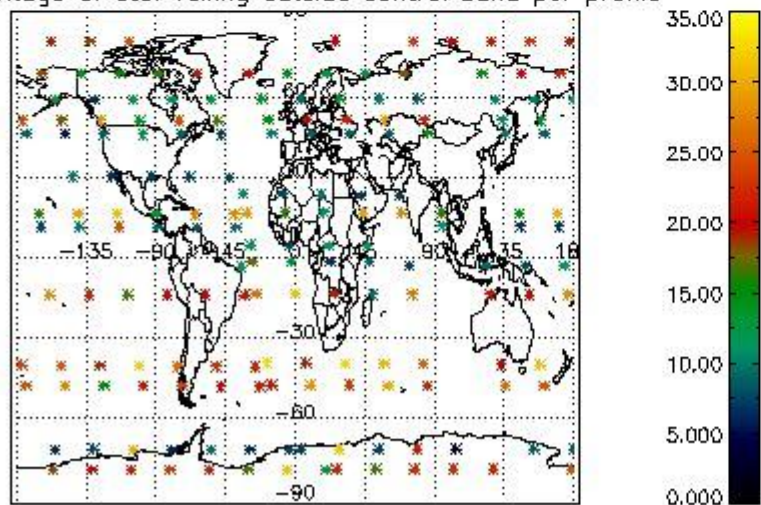
Percentage of cosmic ray hits per profile



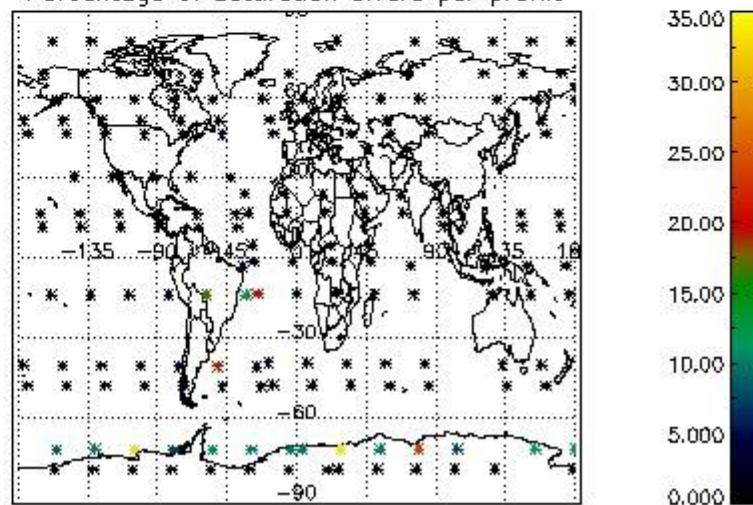
Percentage of datation errors per profile



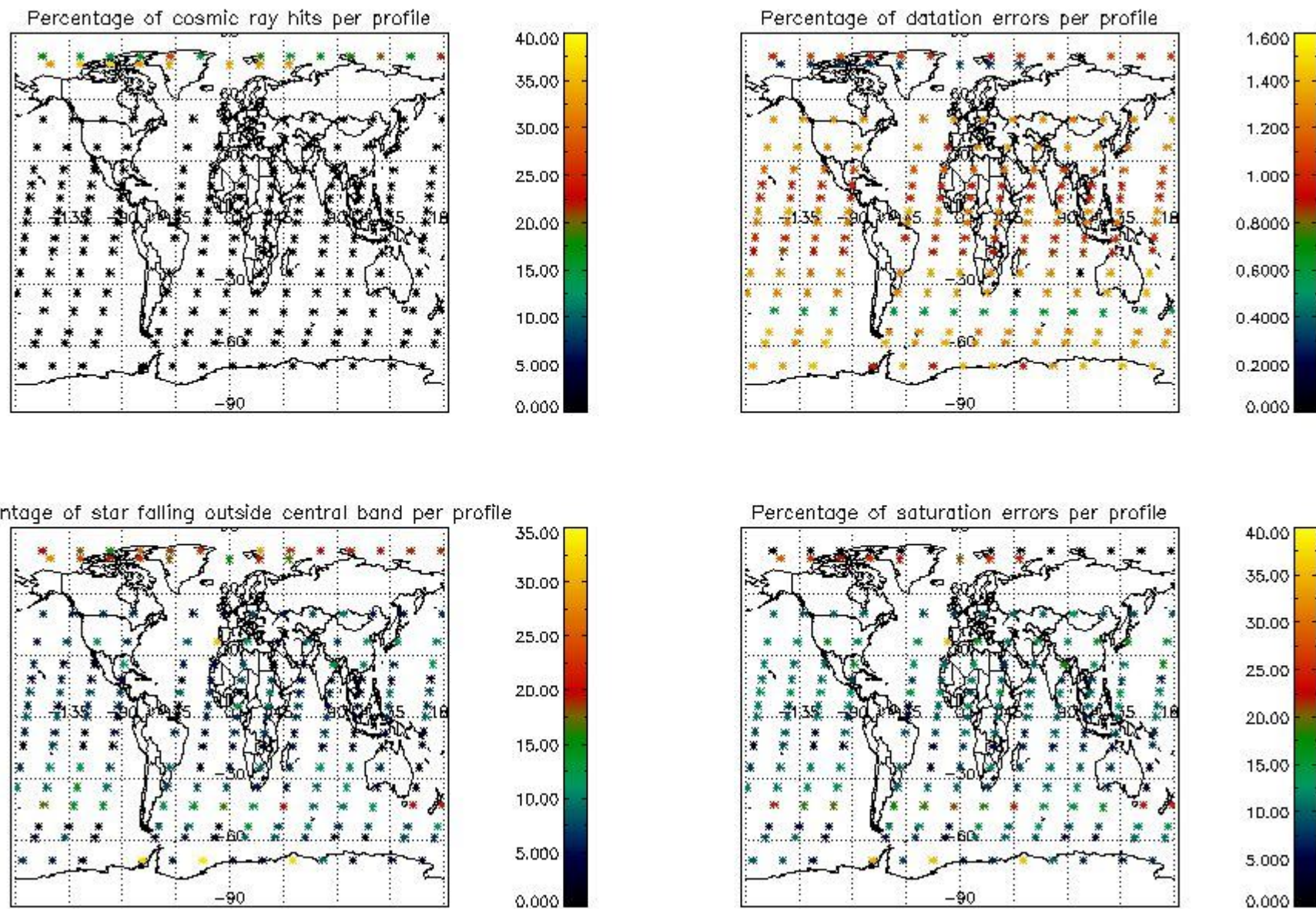
Percentage of star falling outside central band per profile



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

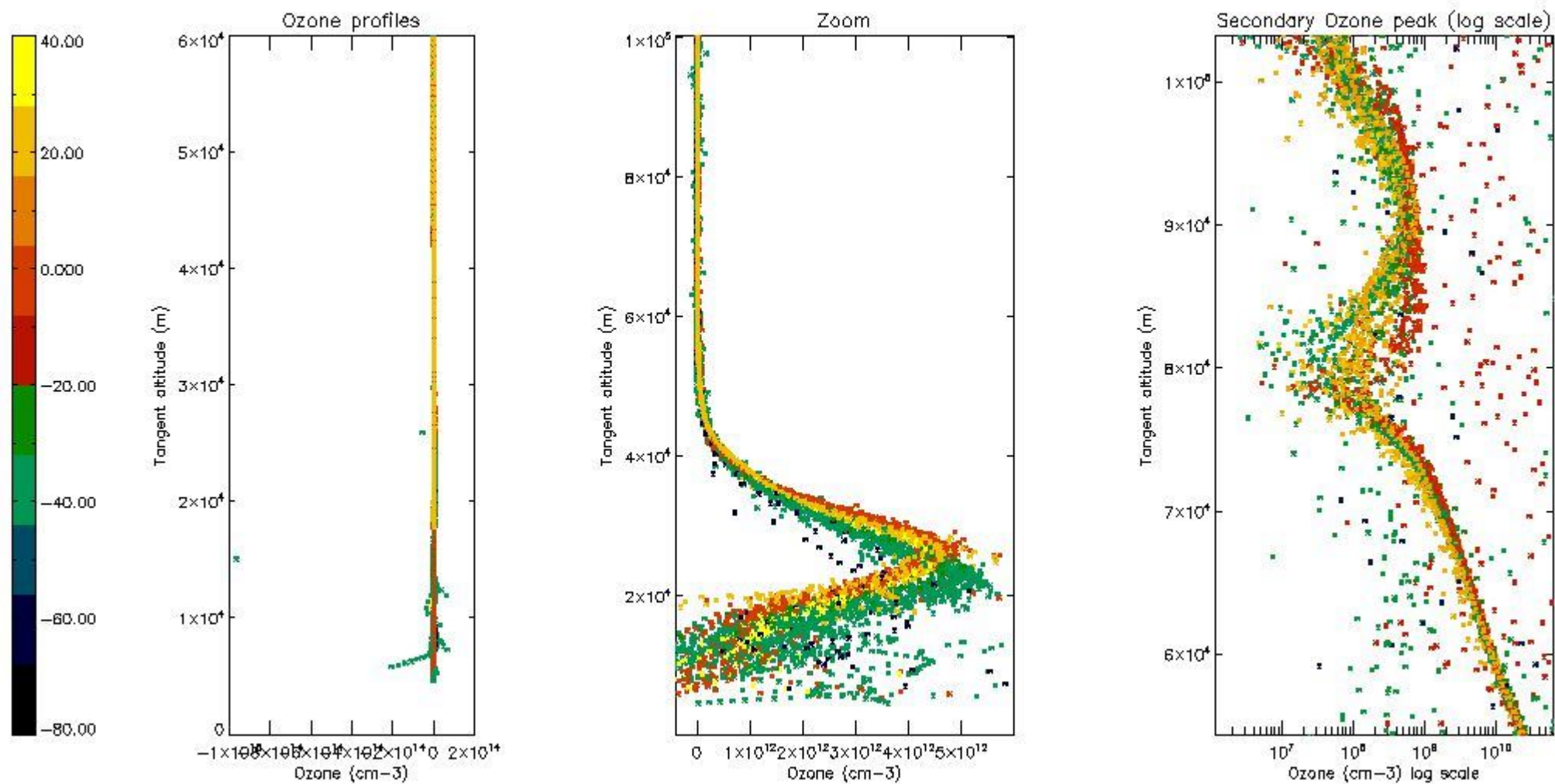
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

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

STD < 10	16
STD < 5	12

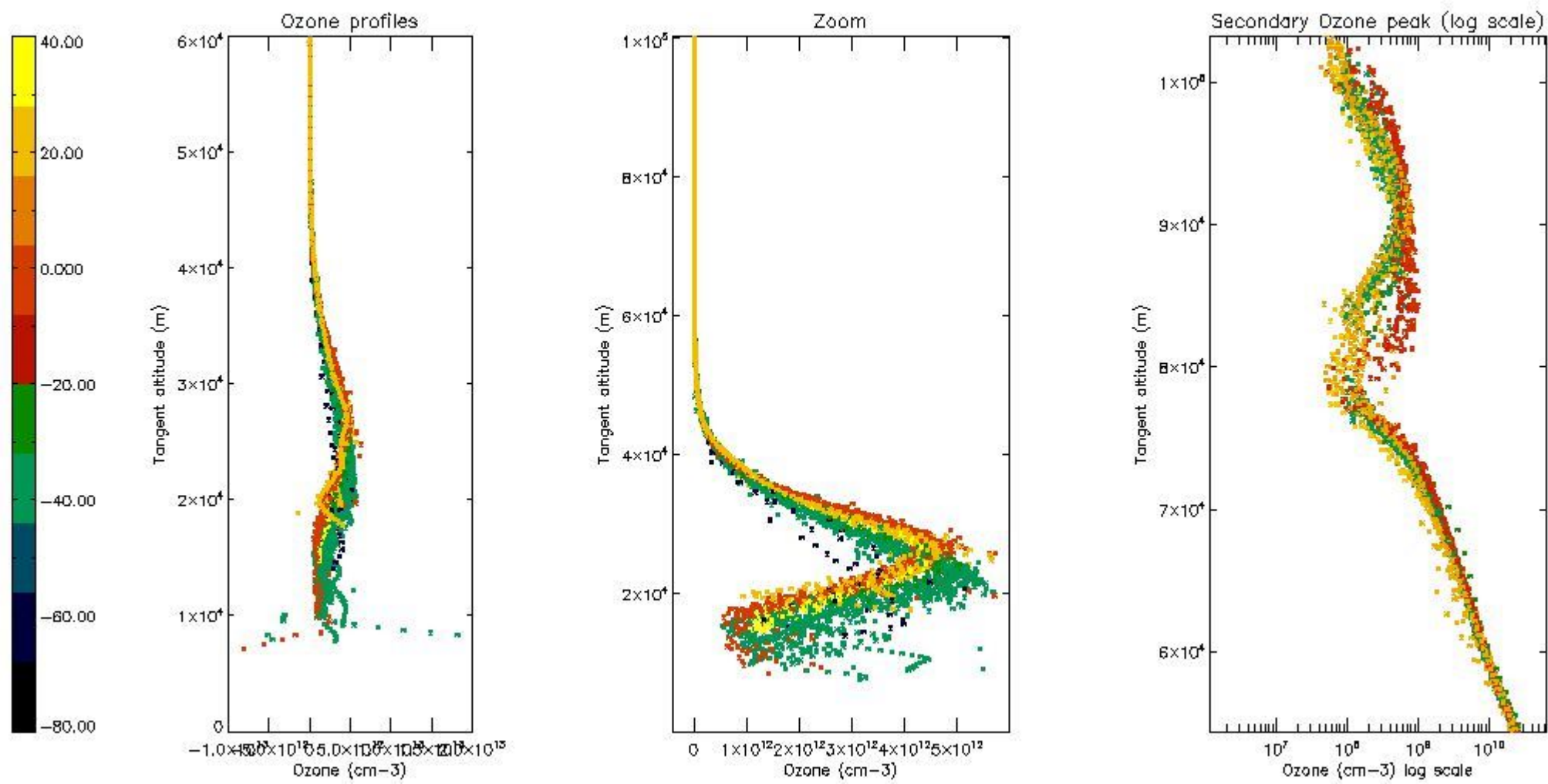
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

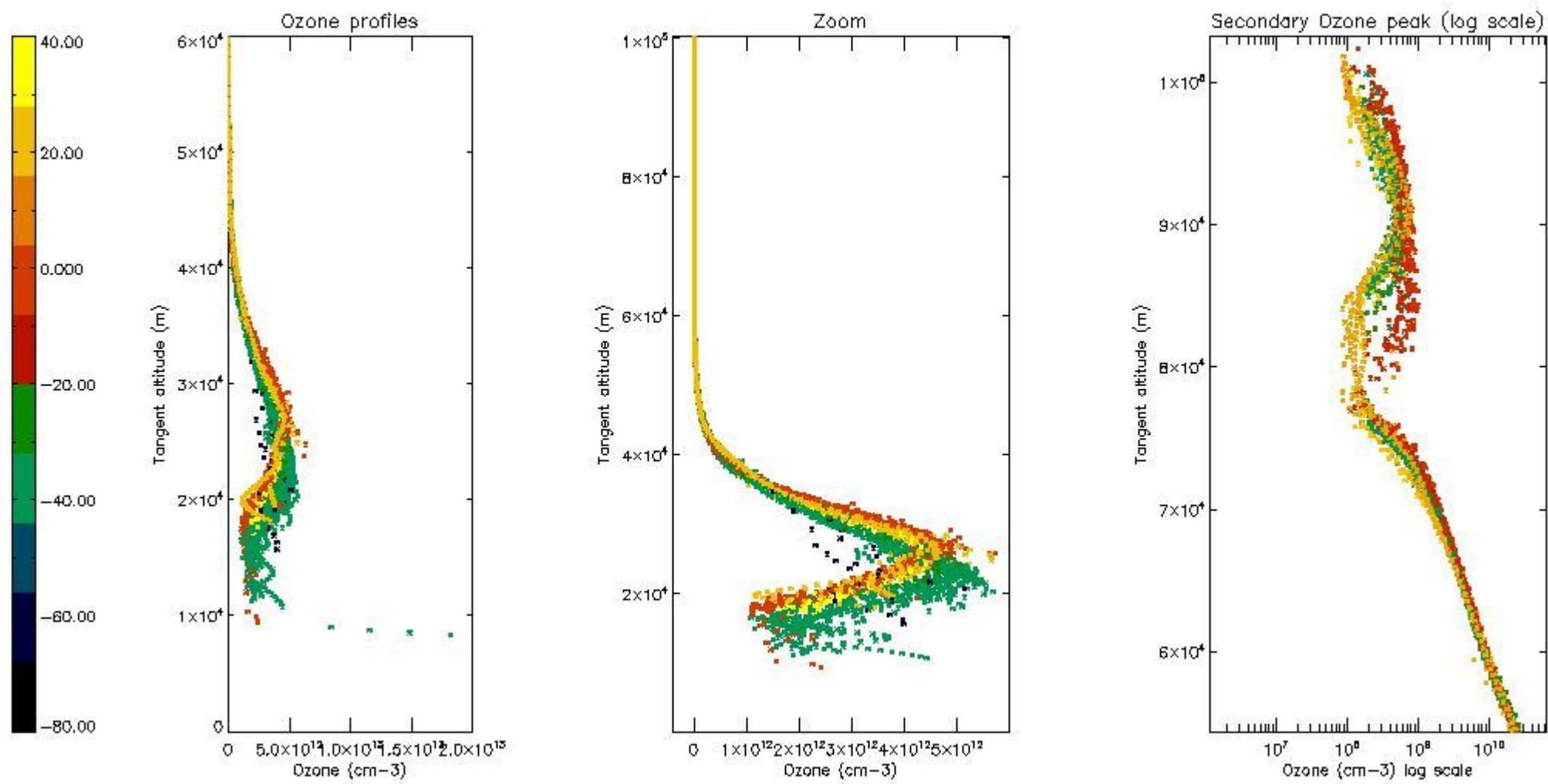
The colorbar represents the latitude.



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

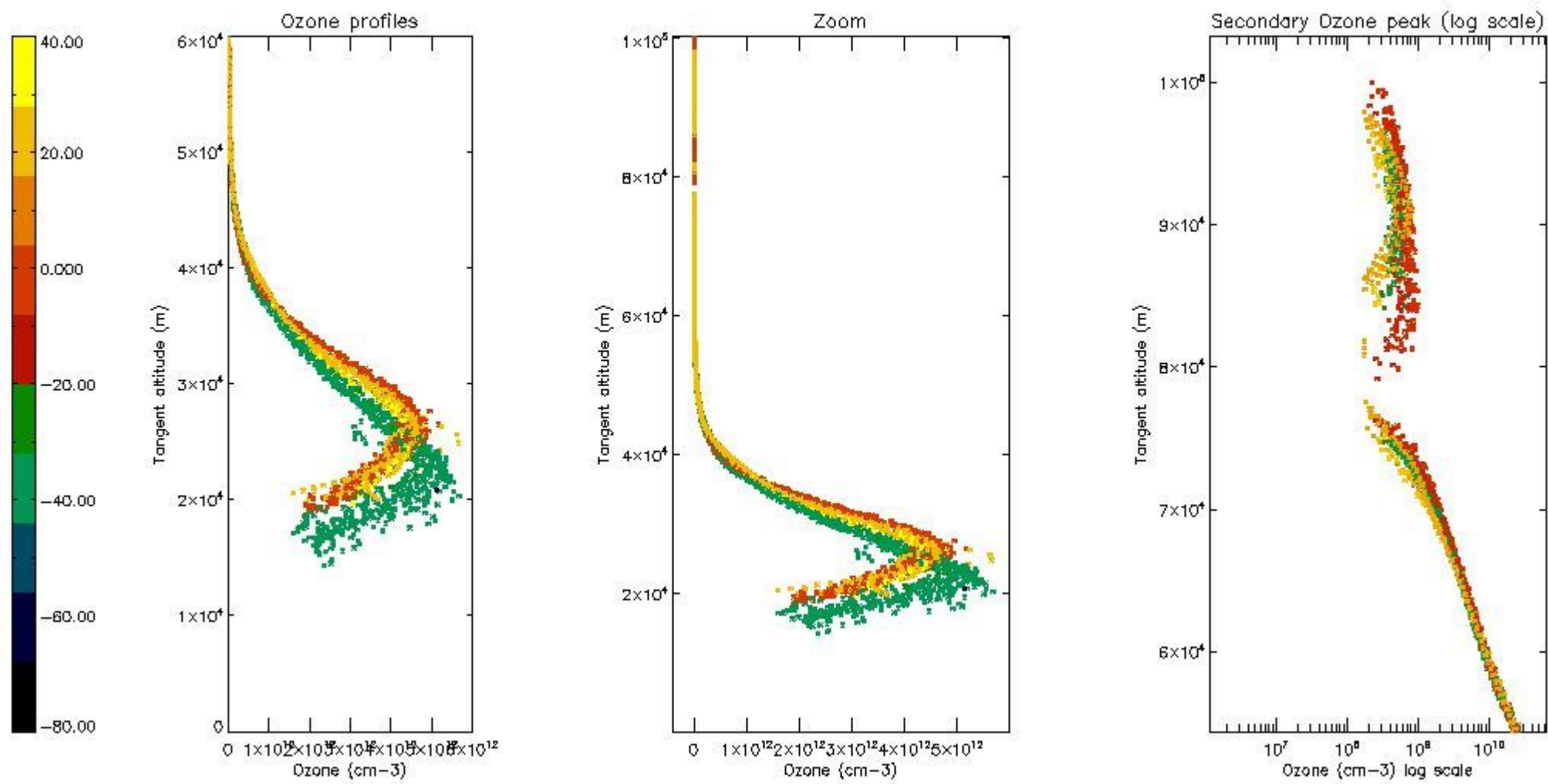
The colorbar represents the latitude.





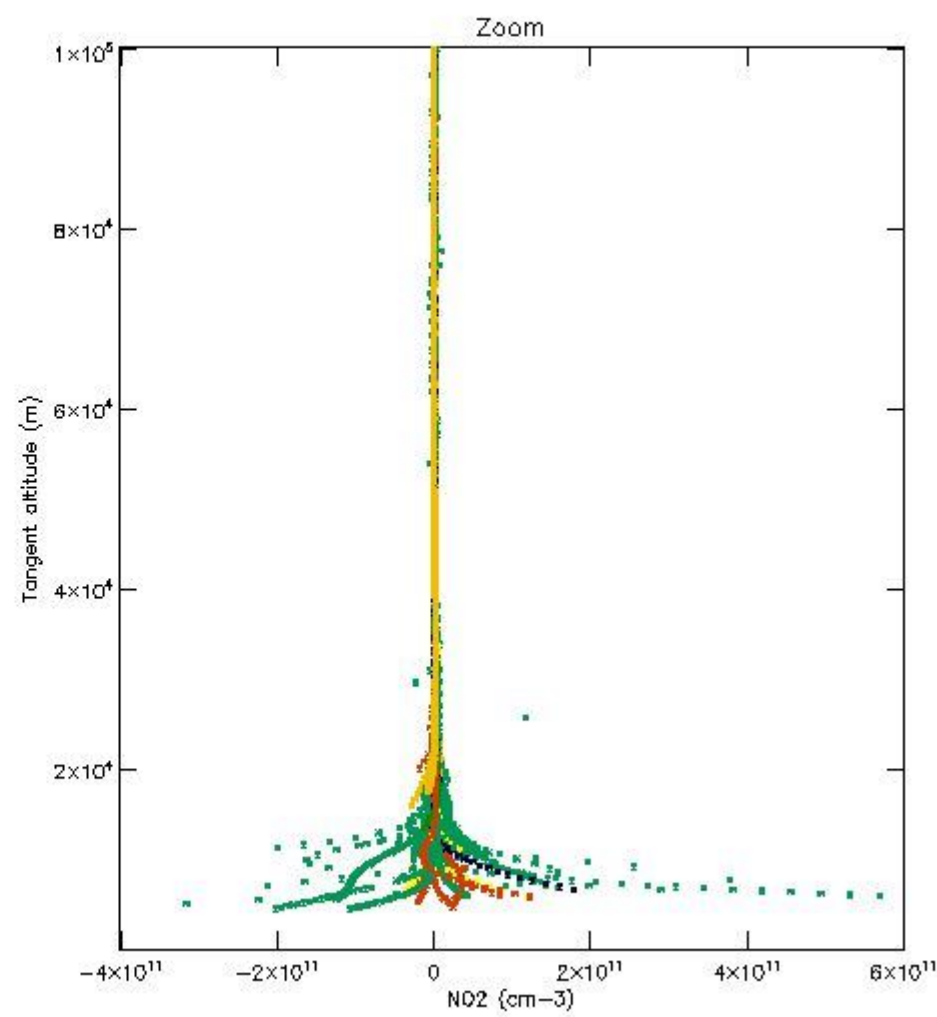
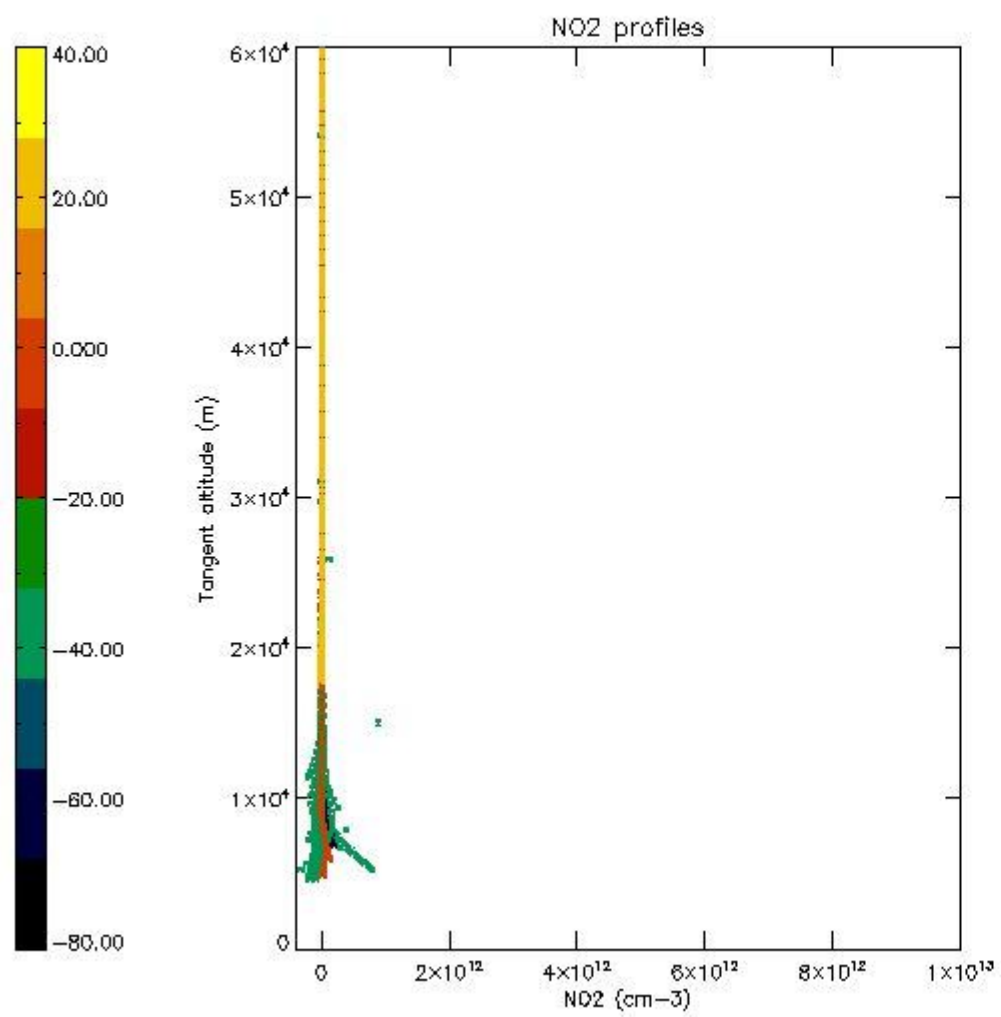
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



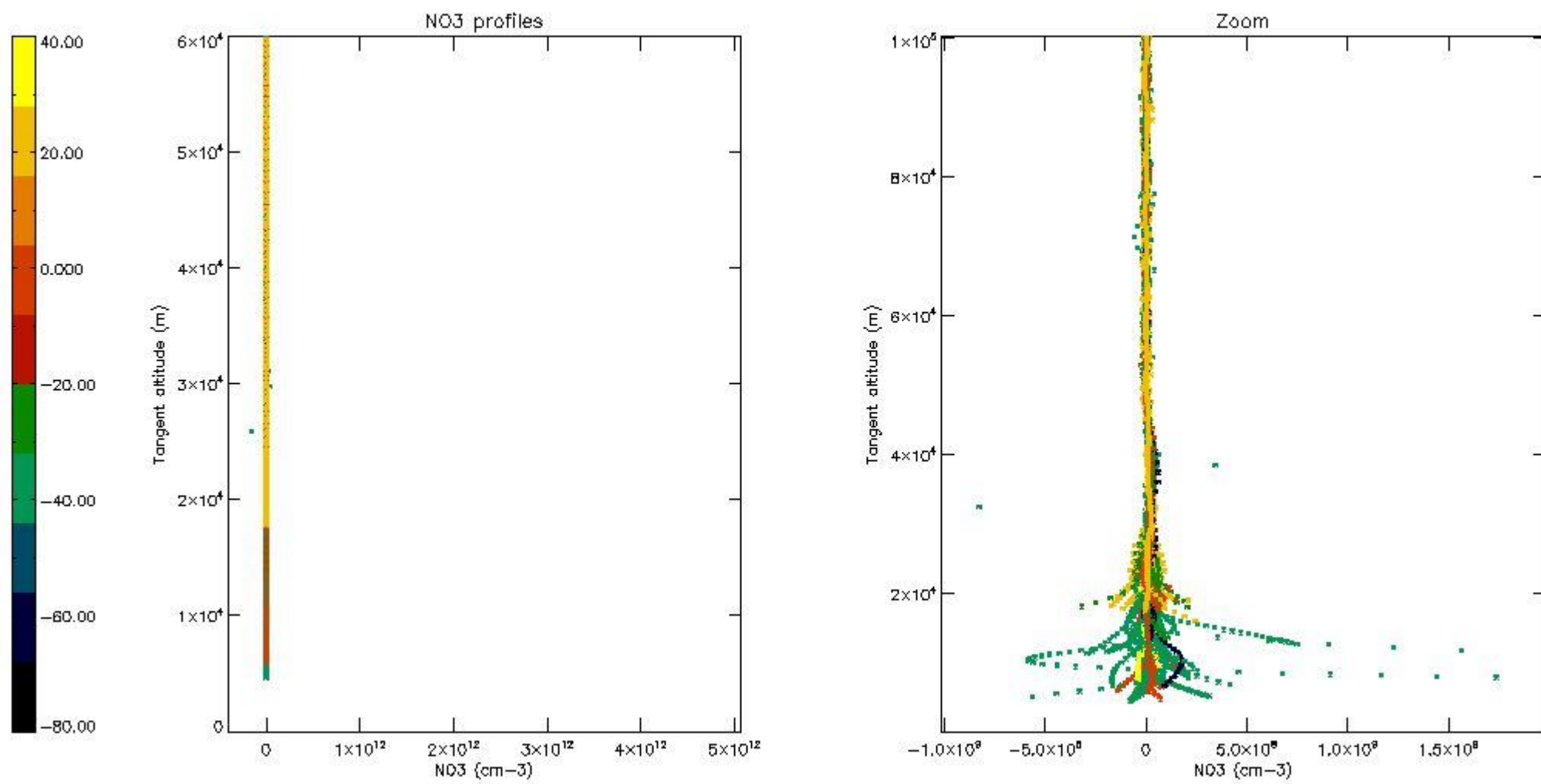
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



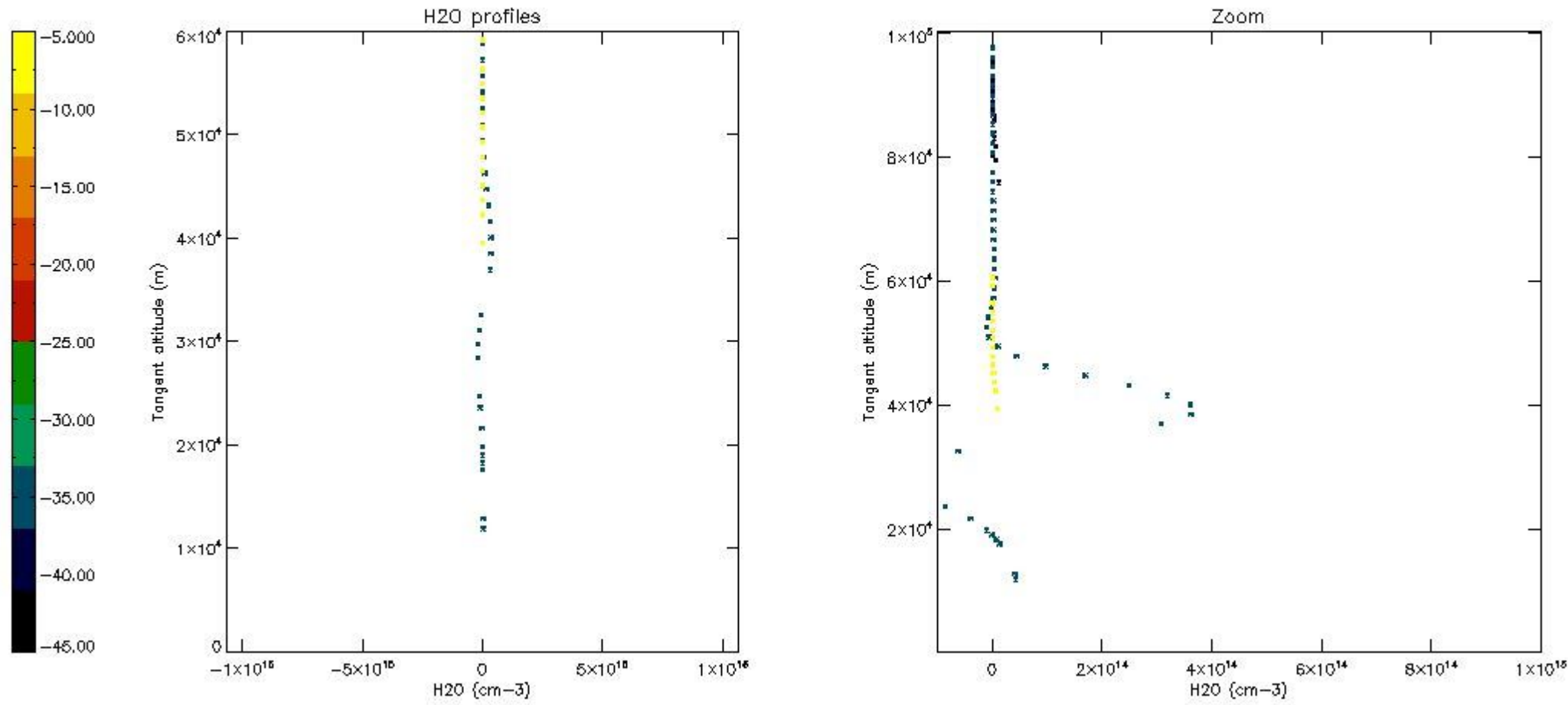
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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	10-OCT-2004 00:00:12
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	10-OCT-2004 00:00:12
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	10-OCT-2004 00:00:12

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

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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](#)











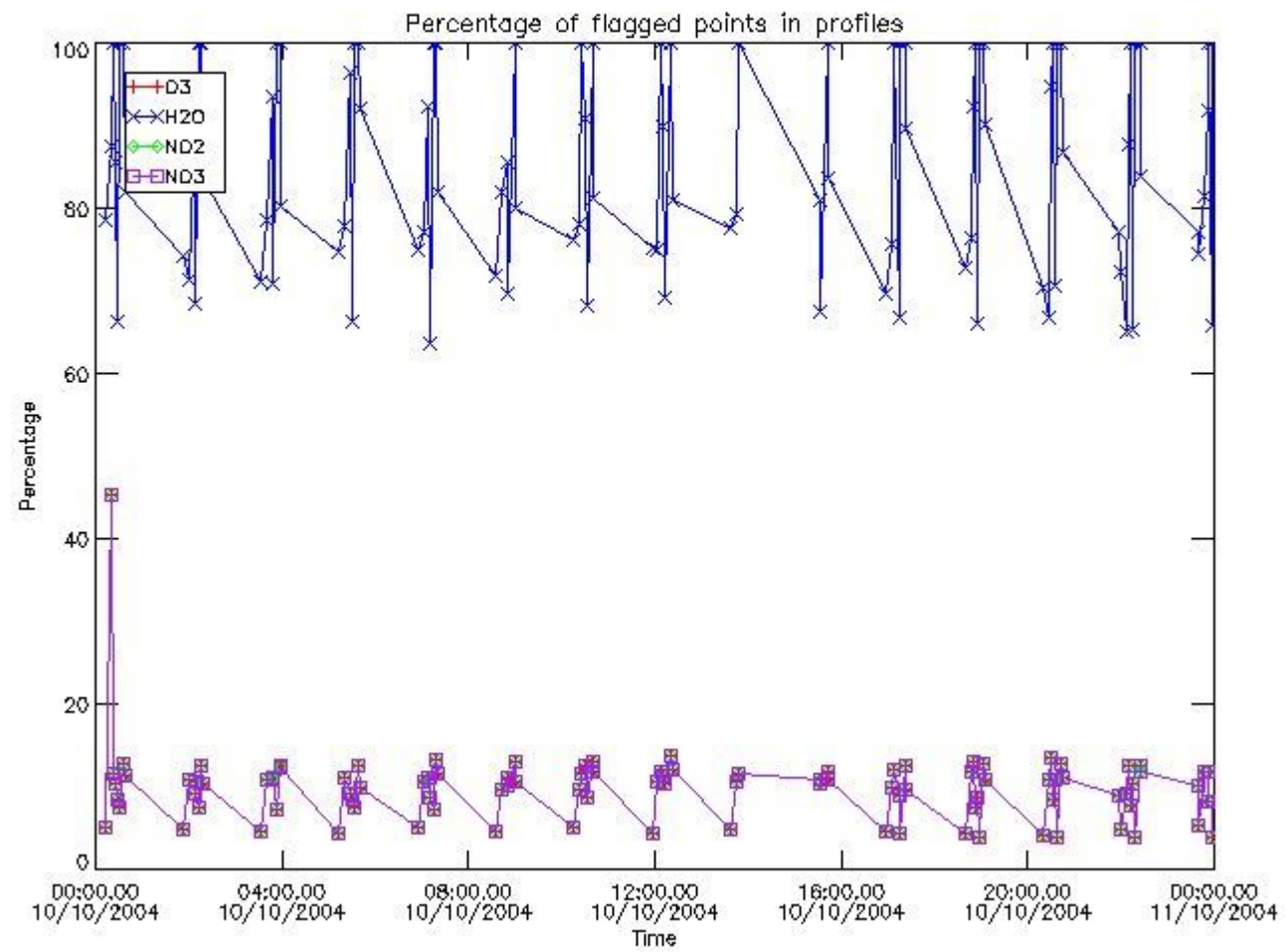






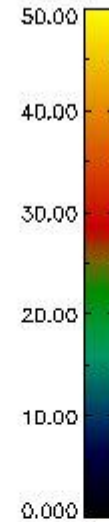
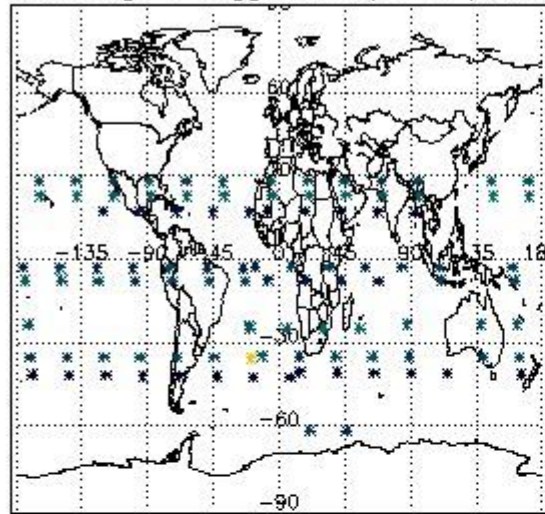
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

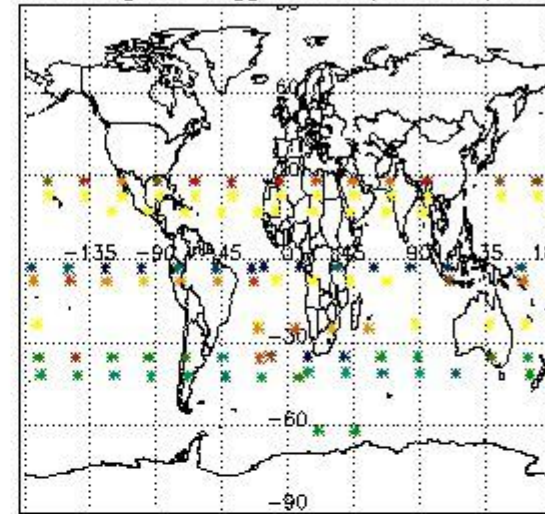


### 3.2 Plot quality information per product (world map)

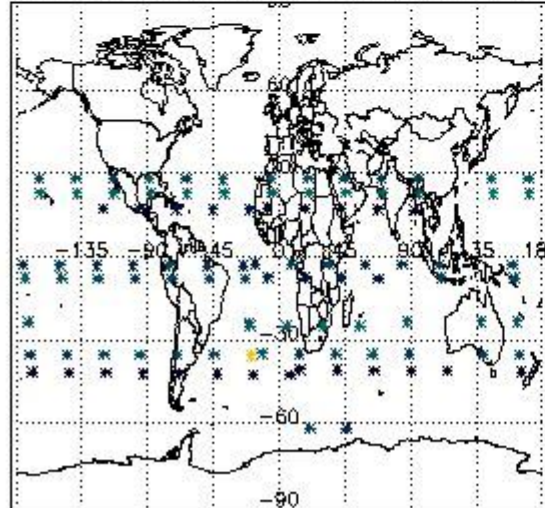
Percentage of flagged data per O3 profile



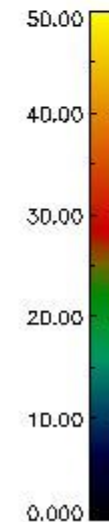
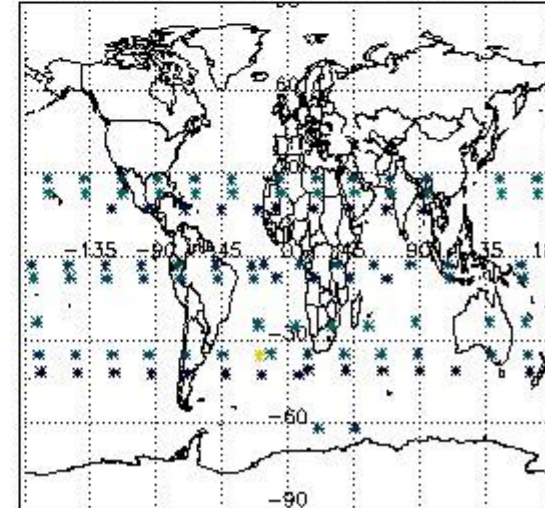
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

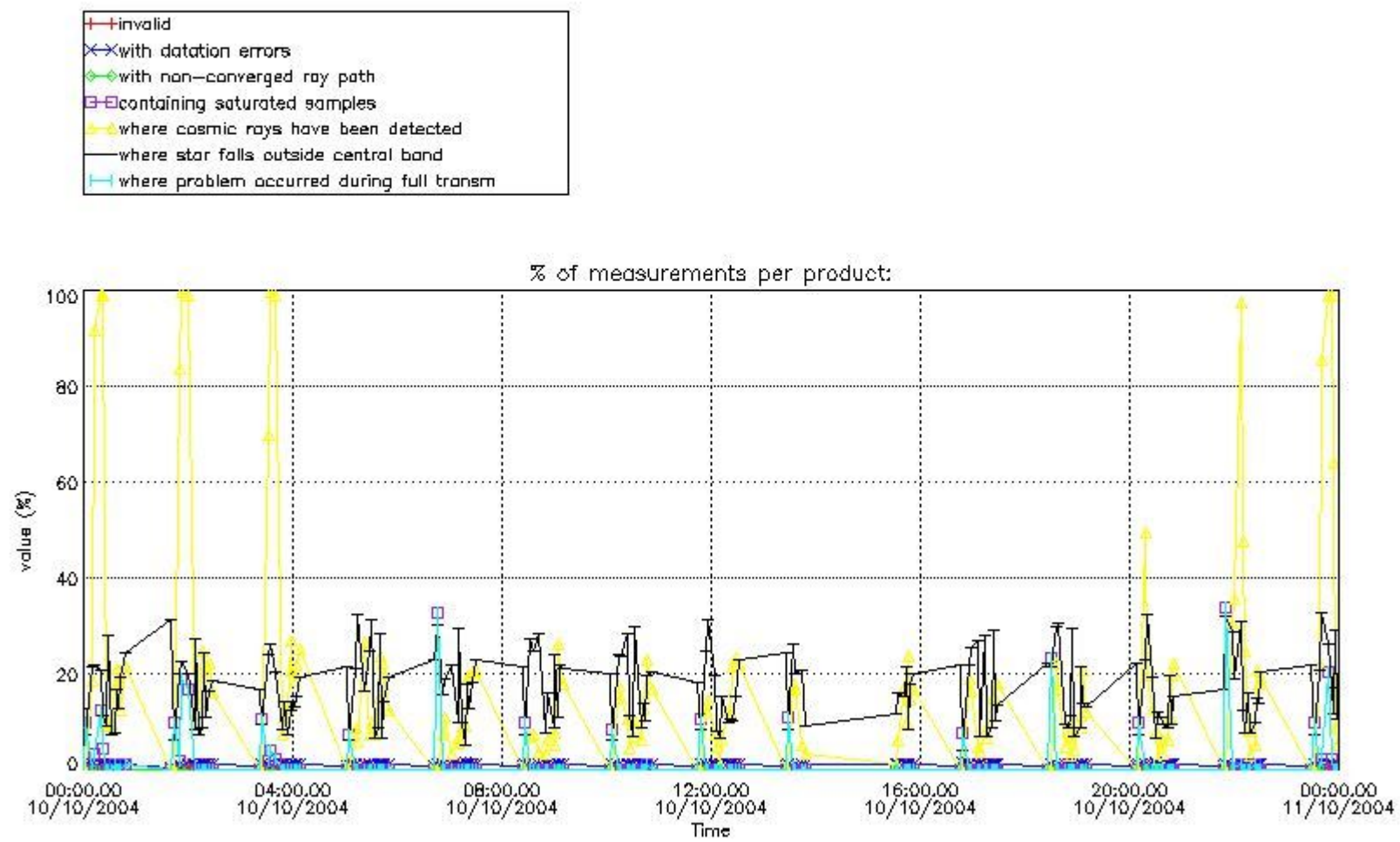


#### 4. Level 1 quality information per product

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.

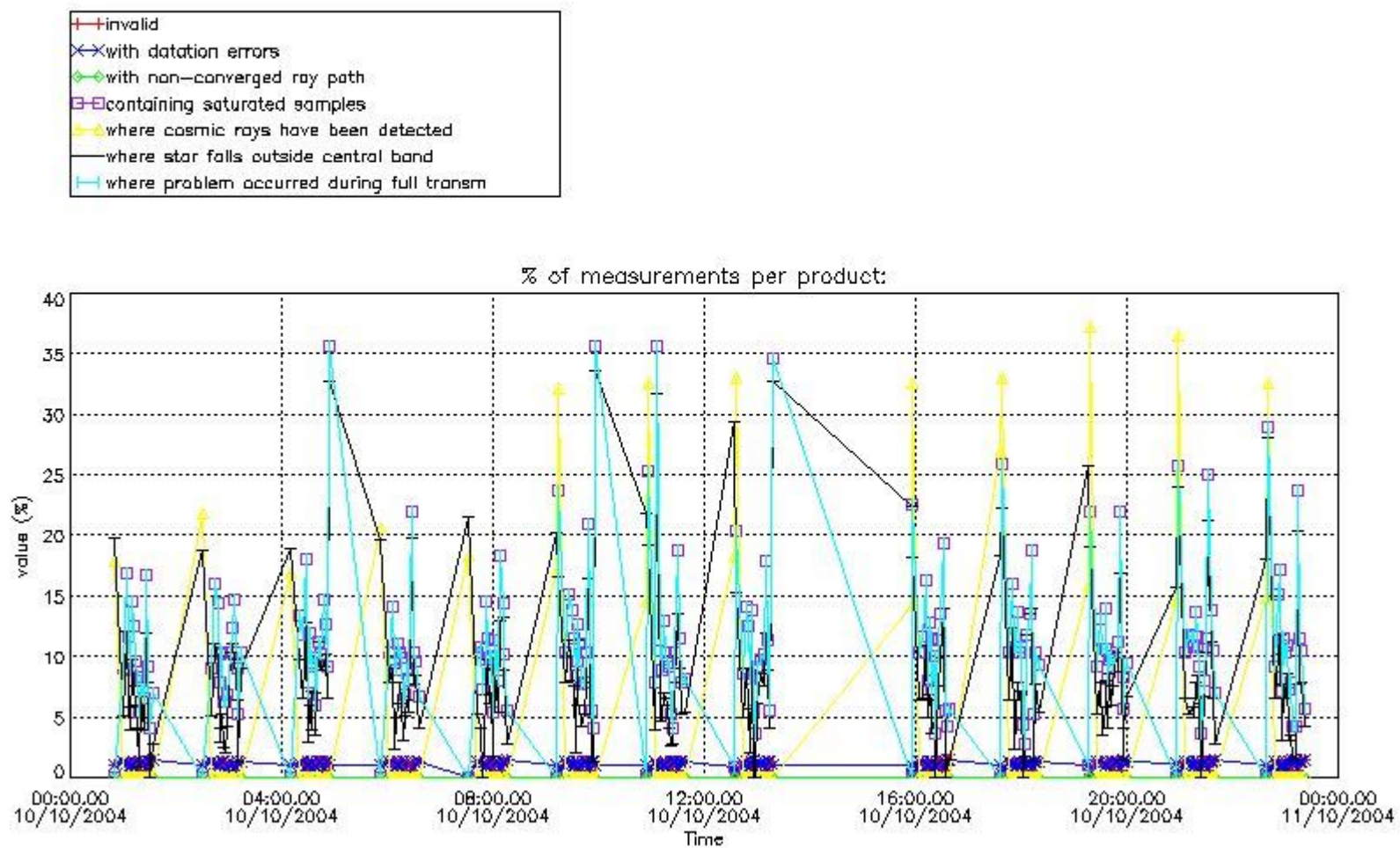
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

###### 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

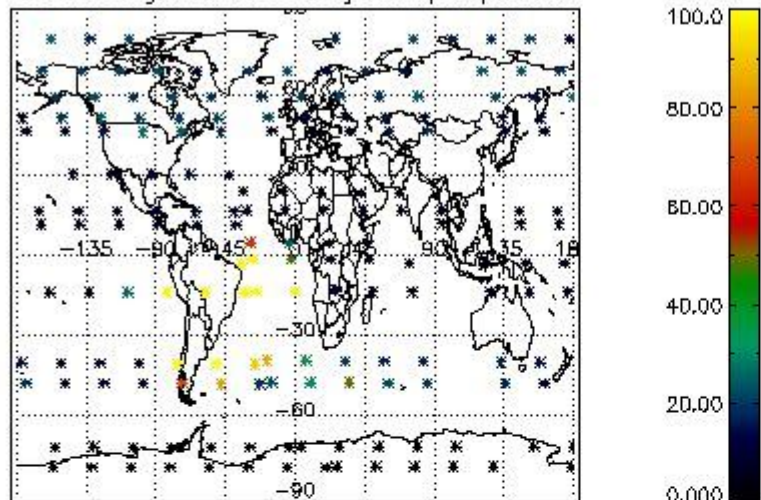




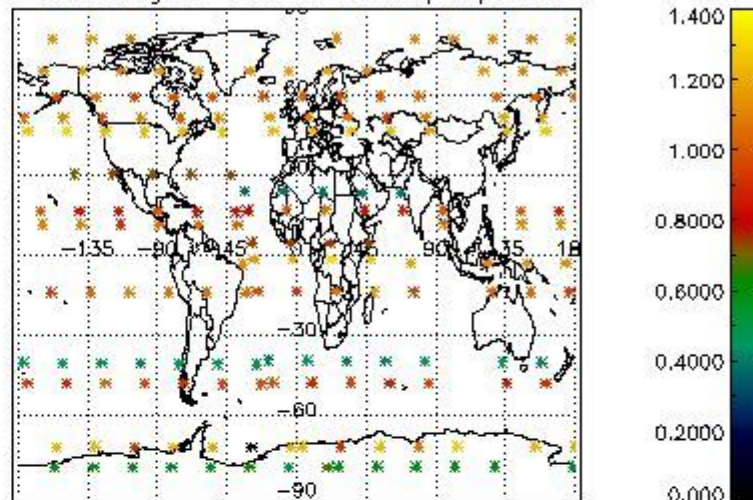
4.2 Plot quality information per product coming from level 1b processing (world map)

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

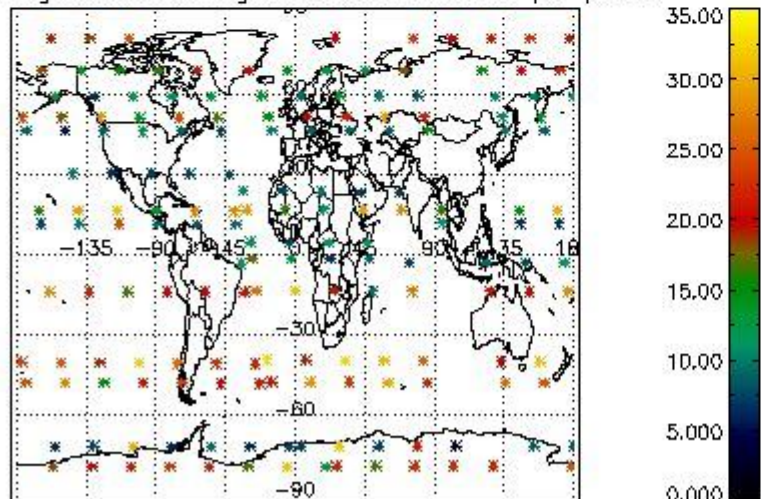
Percentage of cosmic ray hits per profile



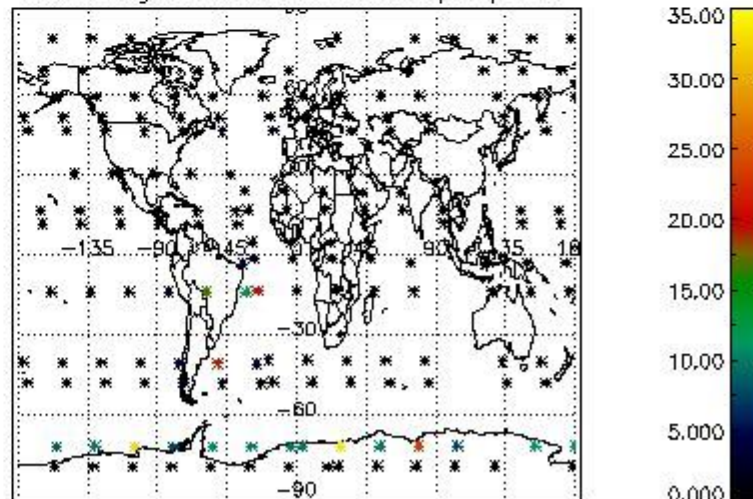
Percentage of datation errors per profile



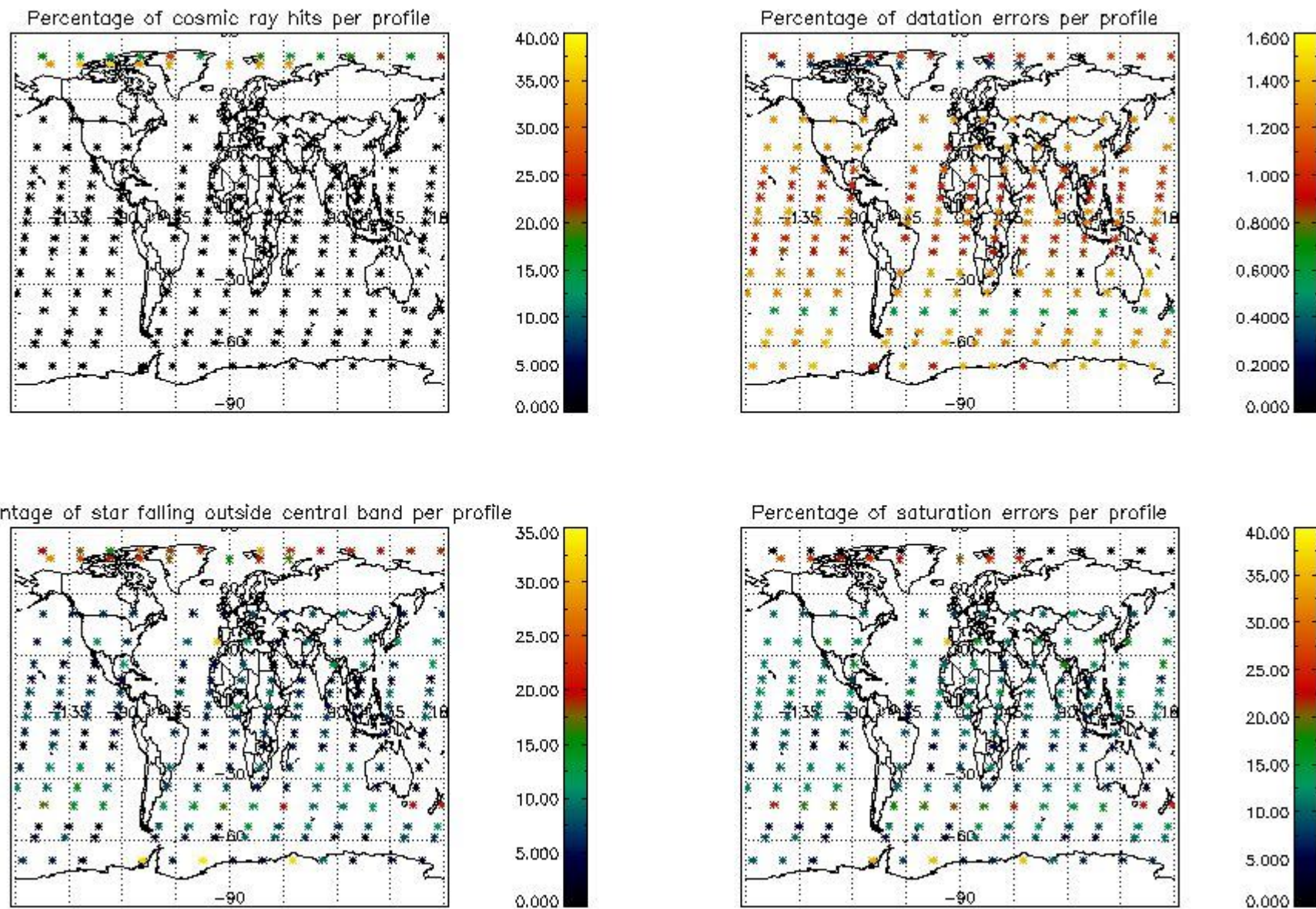
Percentage of star falling outside central band per profile



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

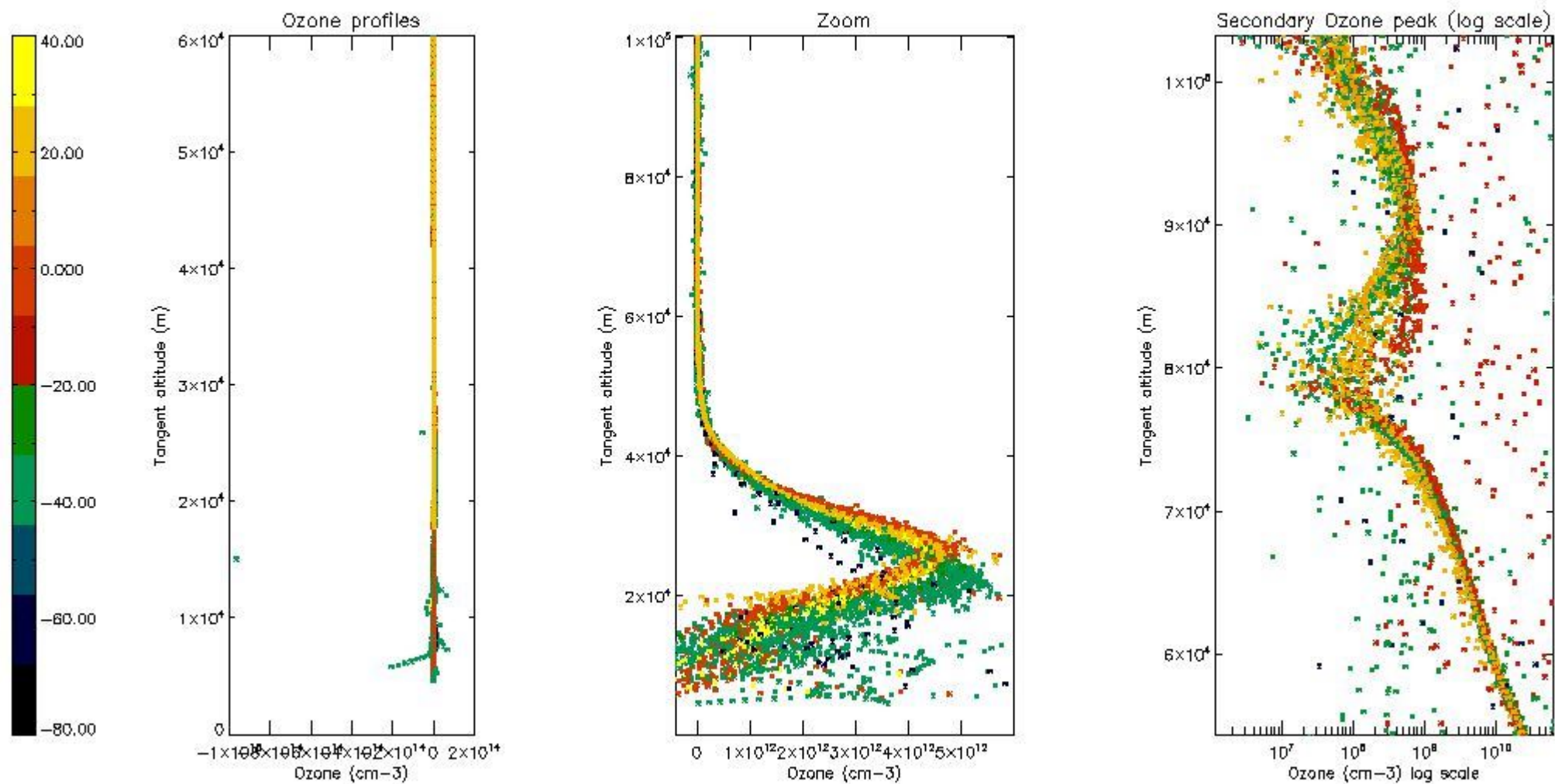
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

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

STD < 10	16
STD < 5	12

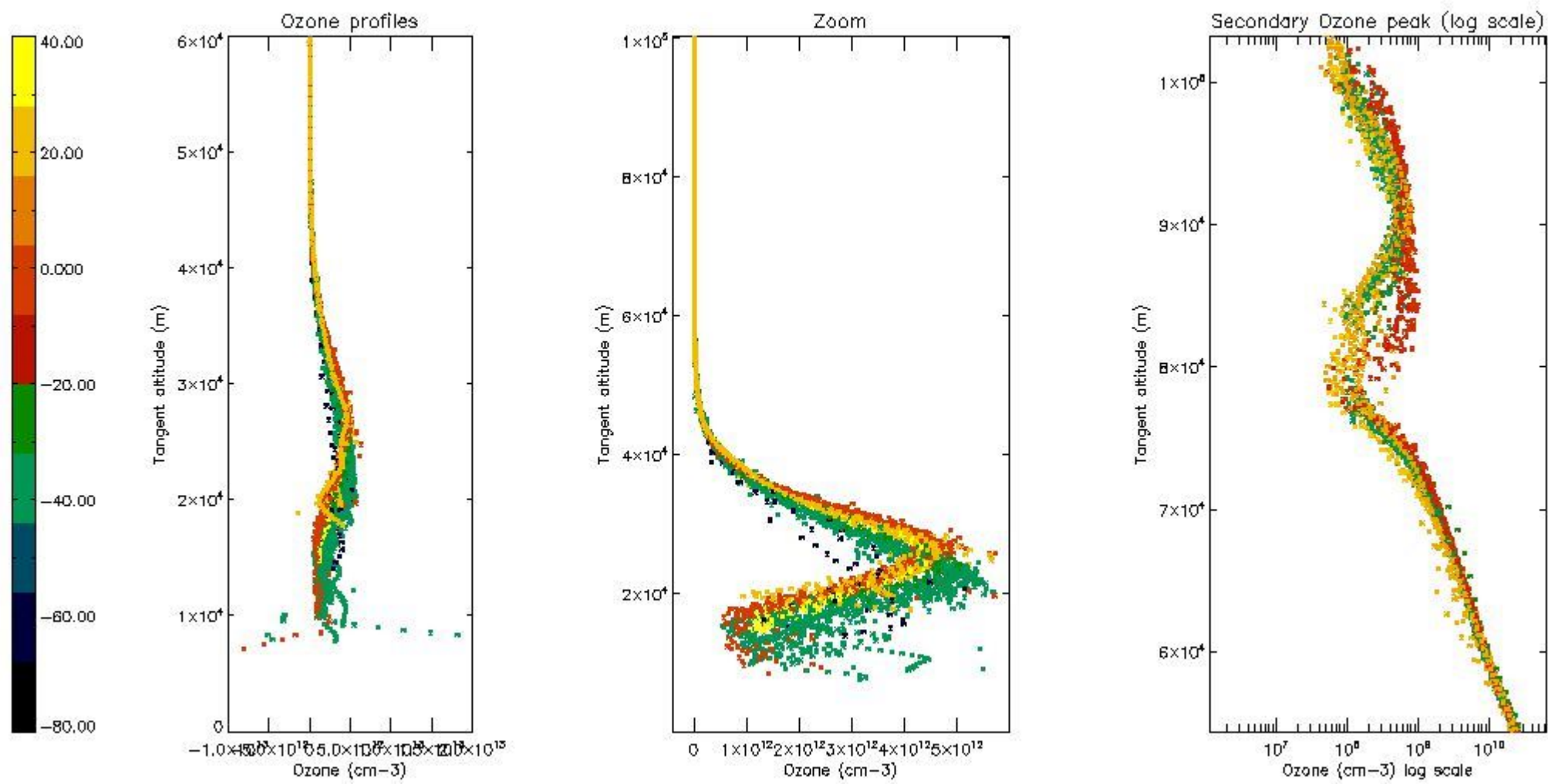
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



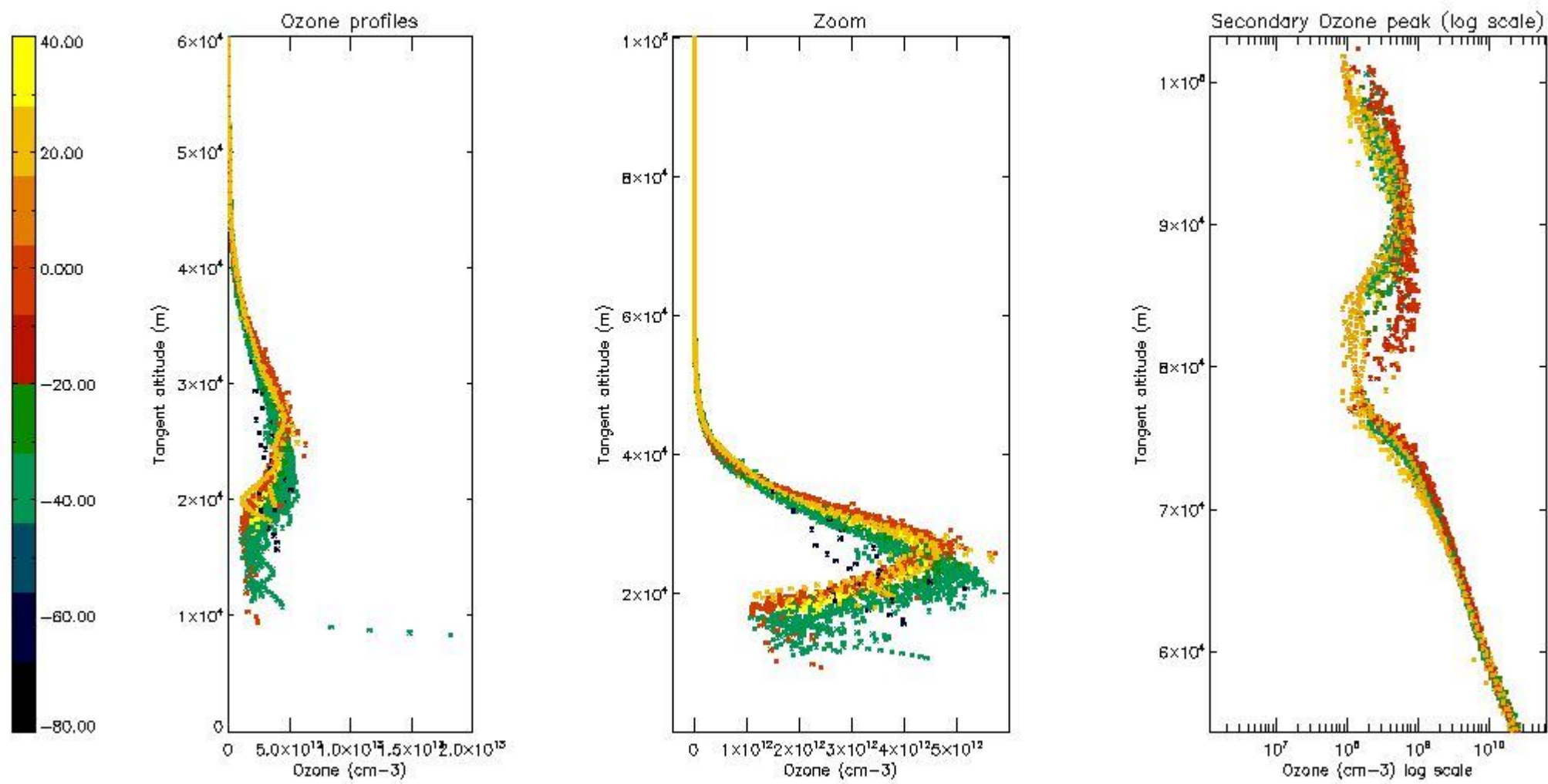
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



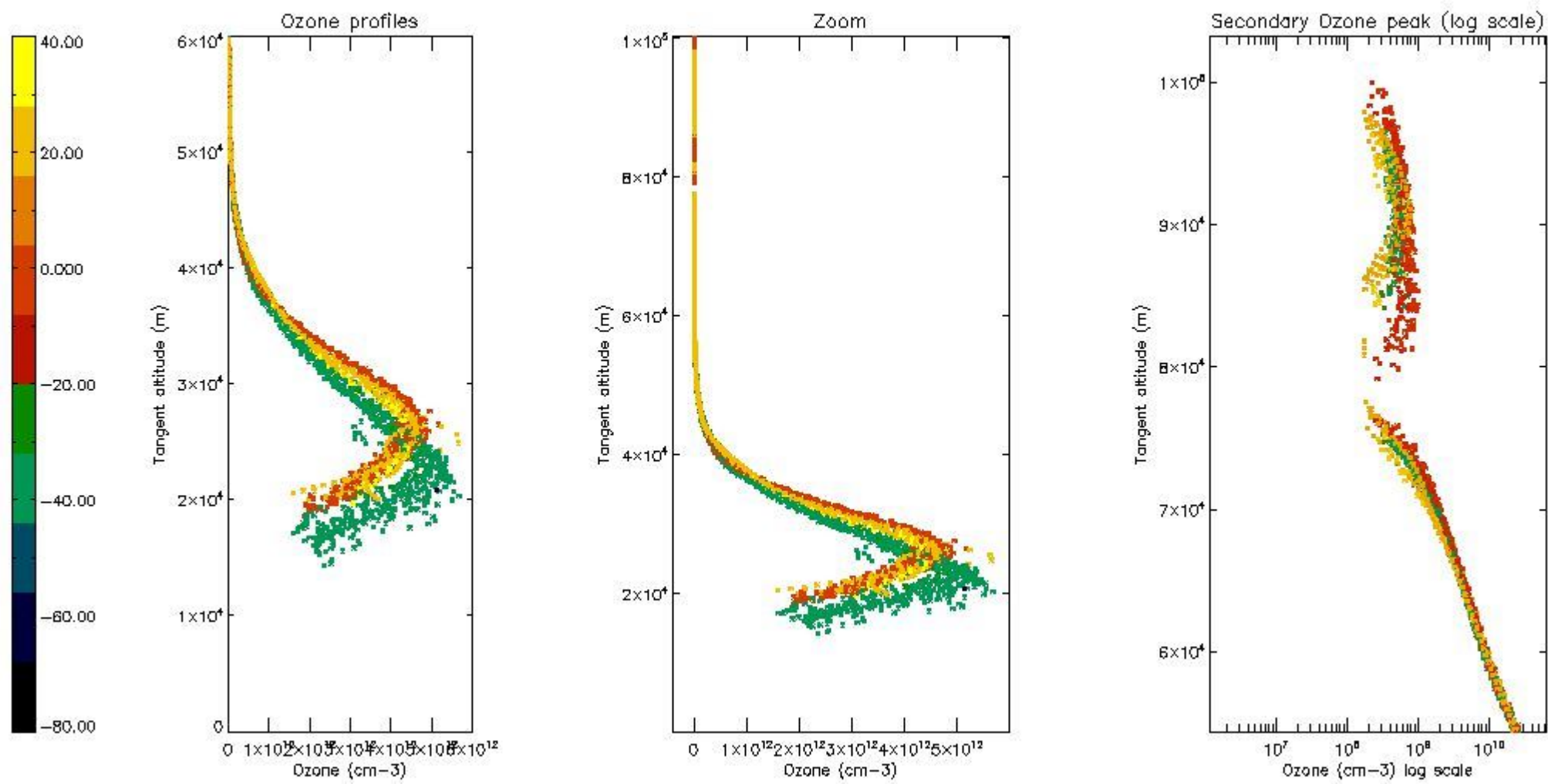
*5.4 Plot ozone profiles where  $STD < 10\%$  (dark without errors)*

The colorbar represents the latitude.



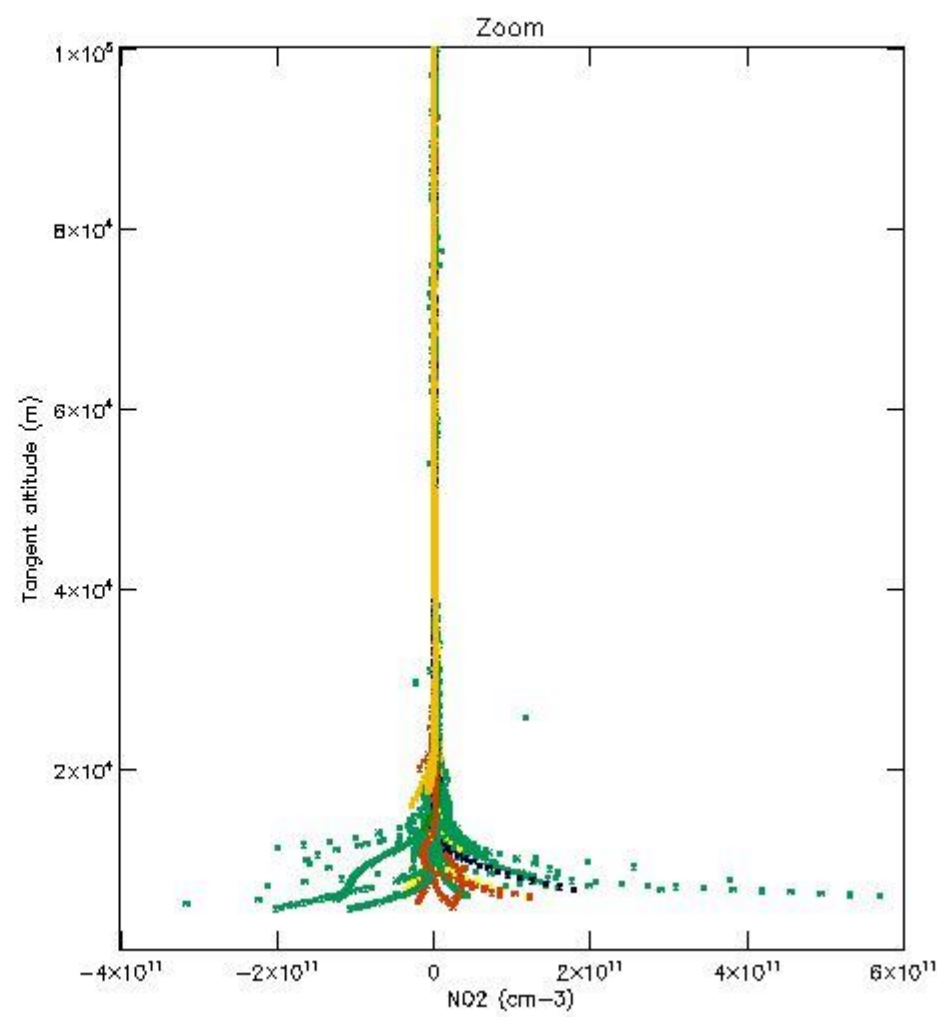
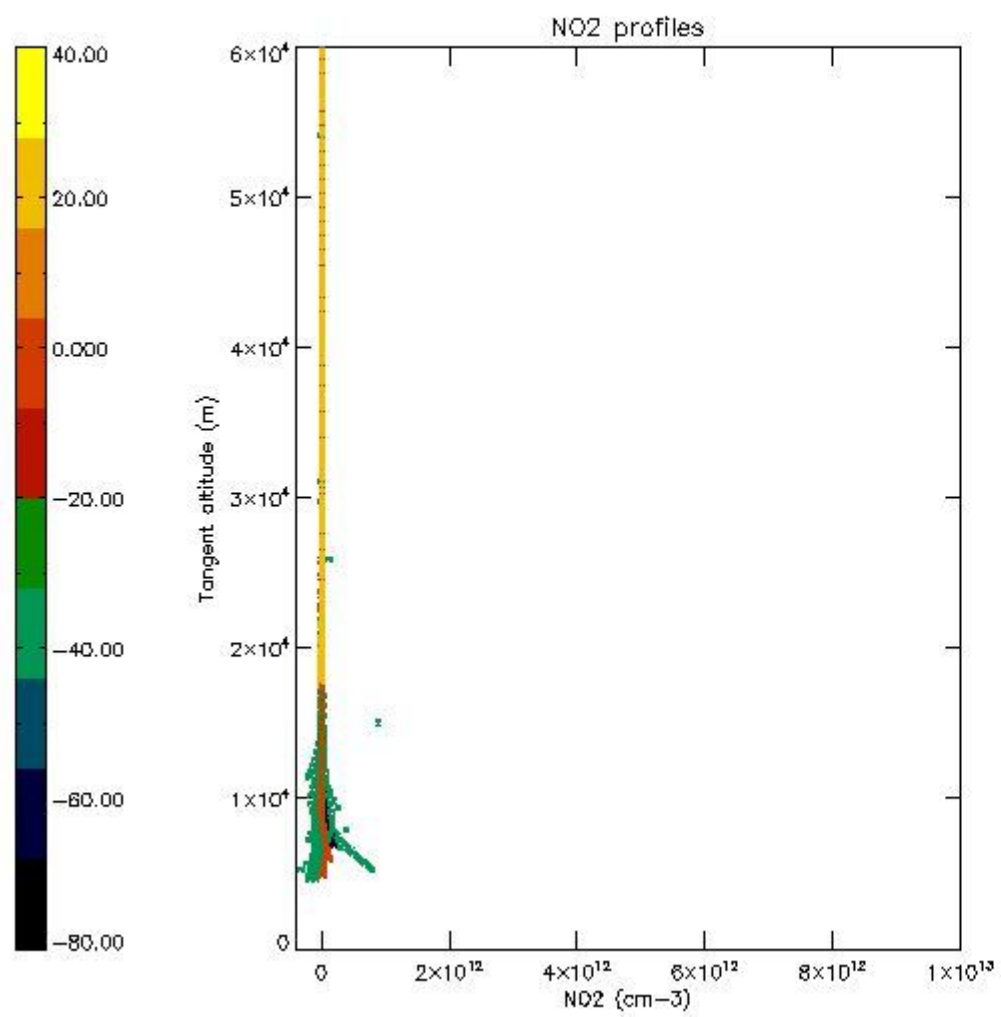
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



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

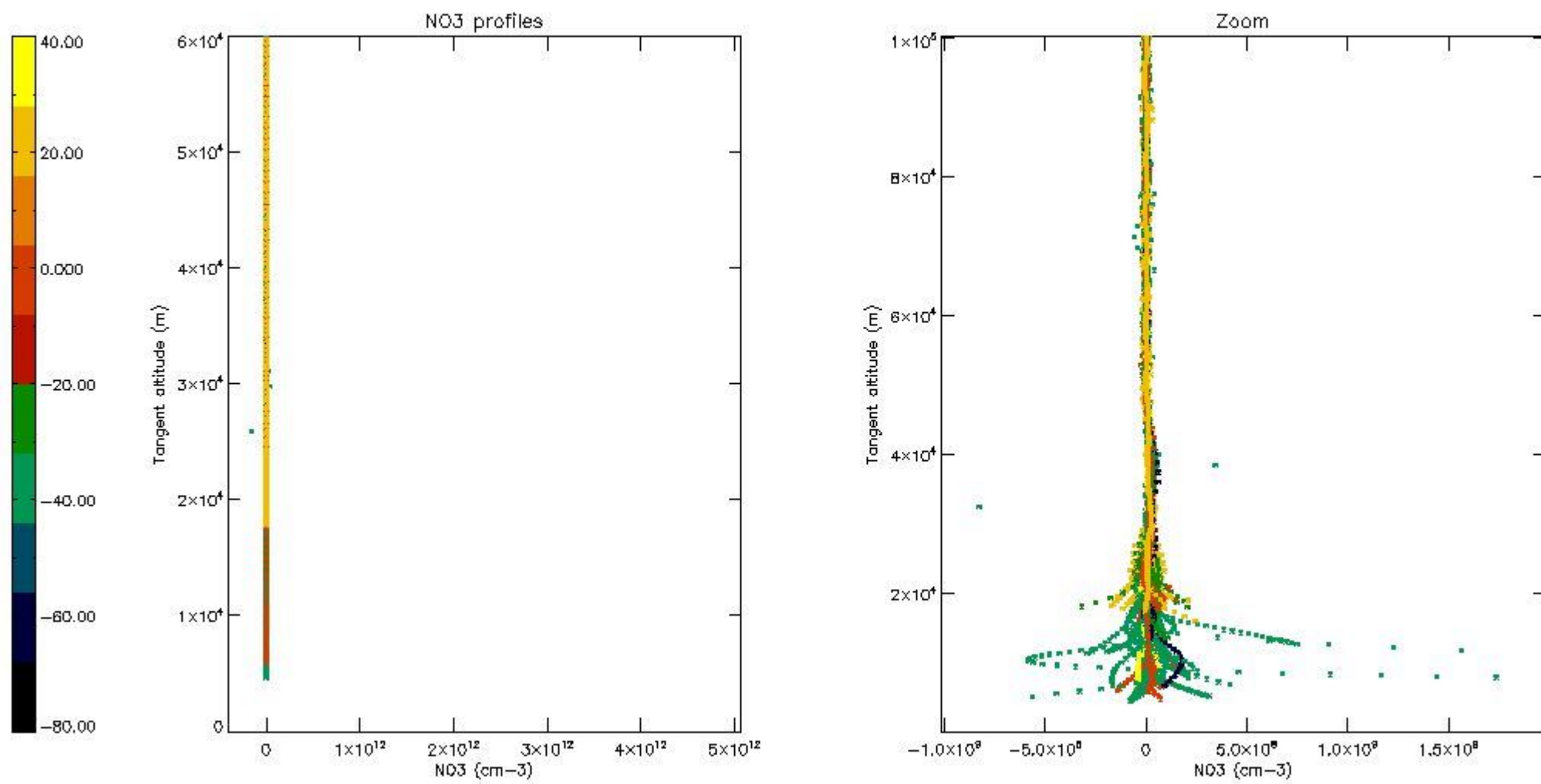
The colorbar represents the latitude.



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

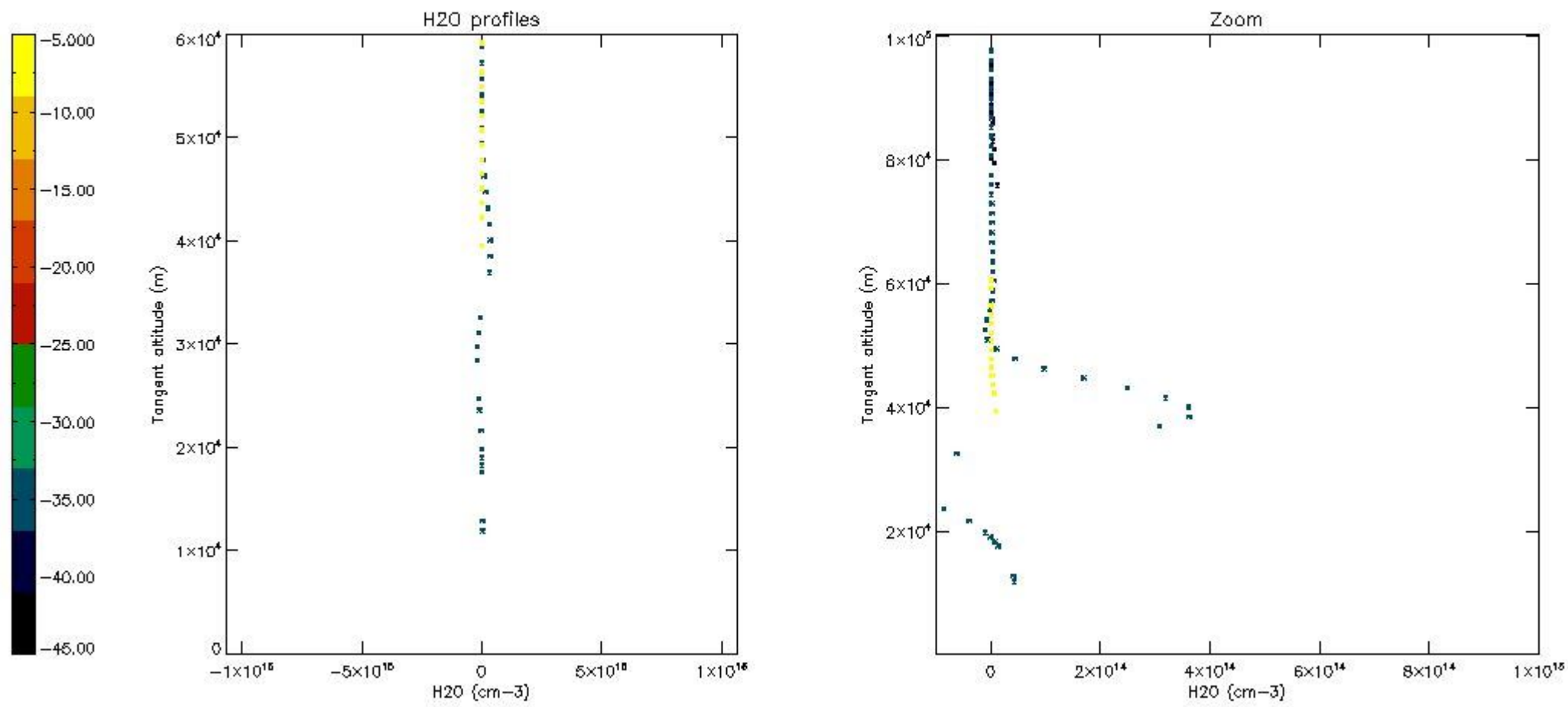
The colorbar represents the latitude.





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)

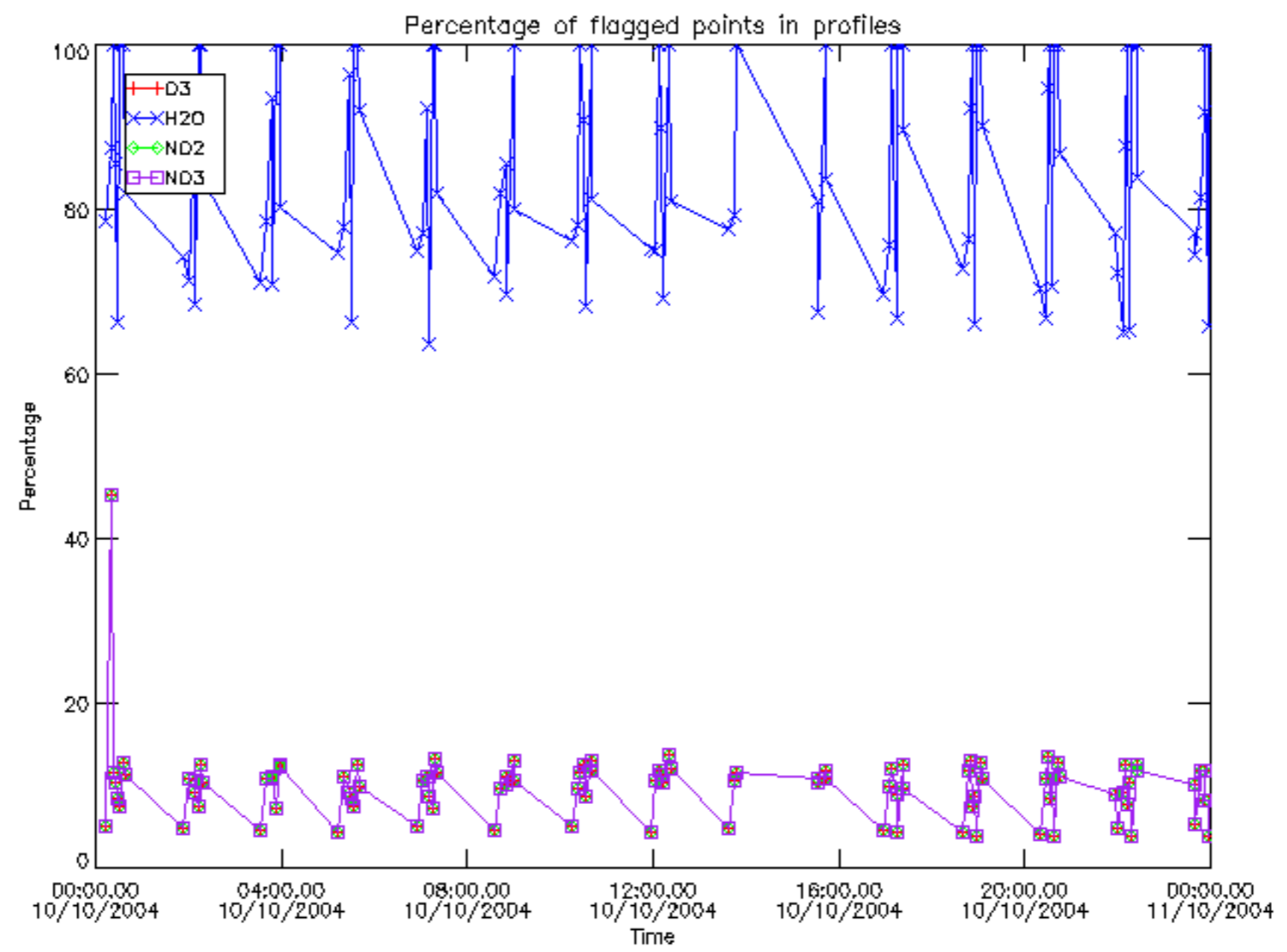
The colorbar represents the latitude.



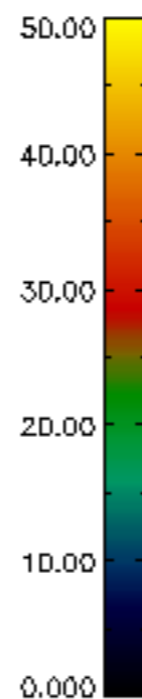
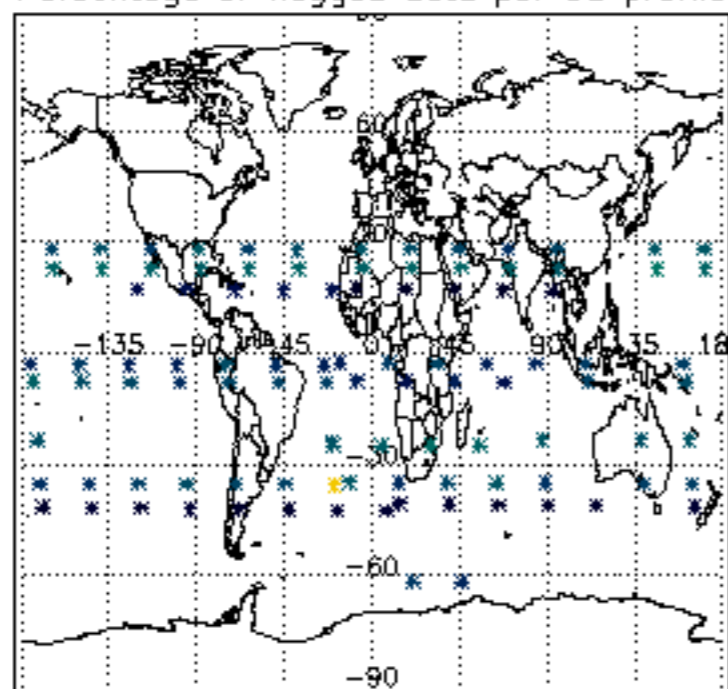
## 6. Auxiliary Data Files used for the production reported in section 2

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.

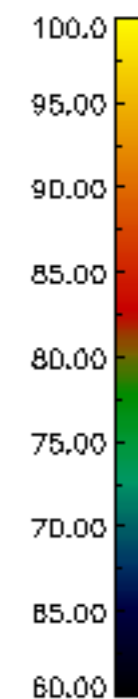
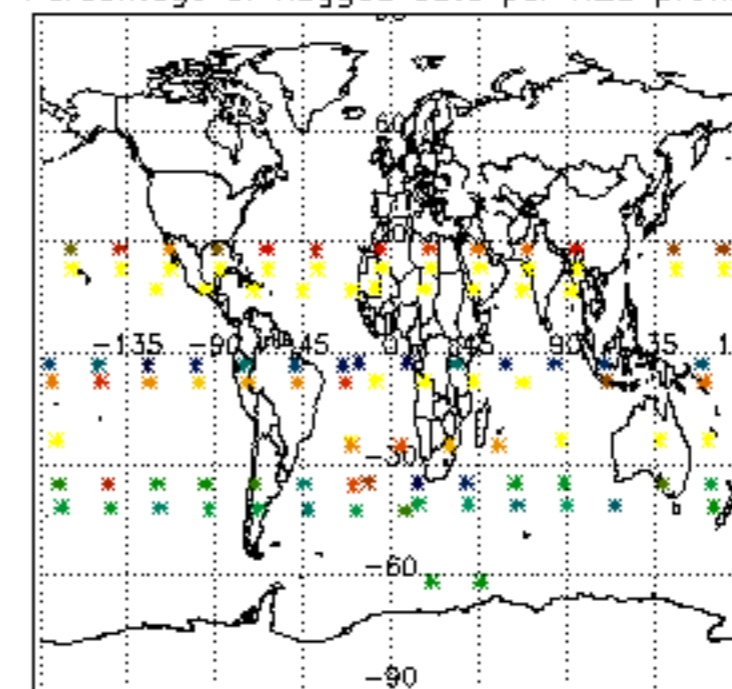
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	10-OCT-2004 00:00:12
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	10-OCT-2004 00:00:12
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	10-OCT-2004 00:00:12



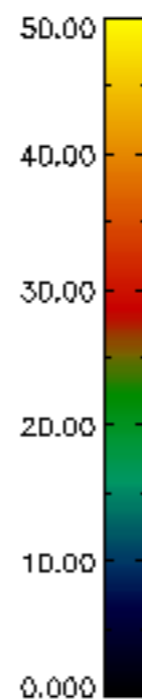
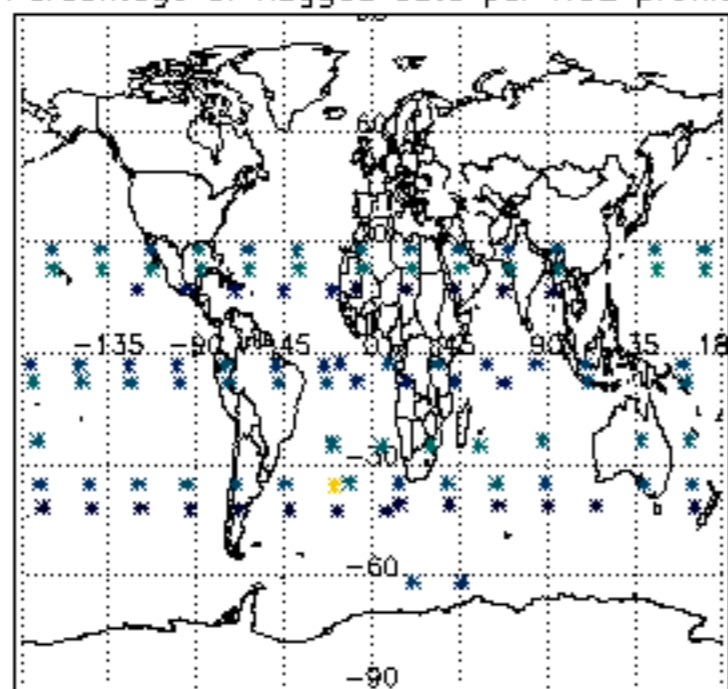
Percentage of flagged data per D3 profile



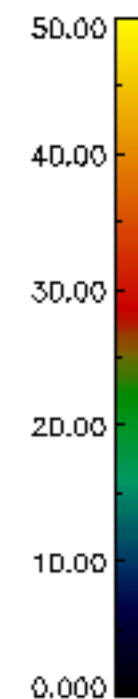
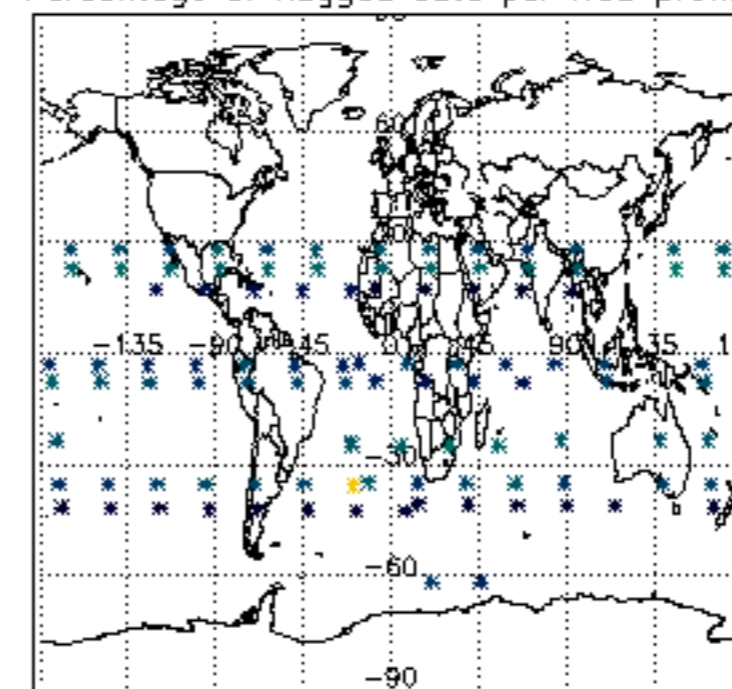
Percentage of flagged data per H2O profile

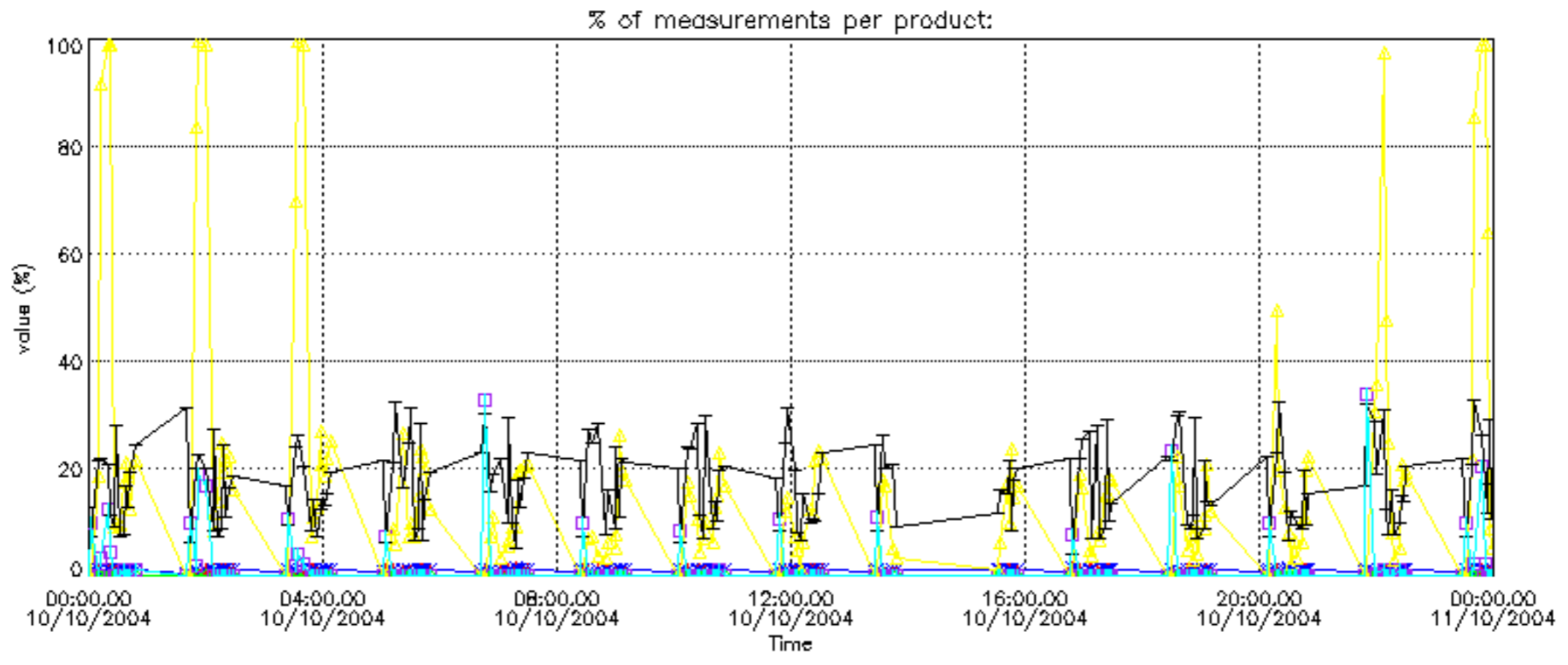


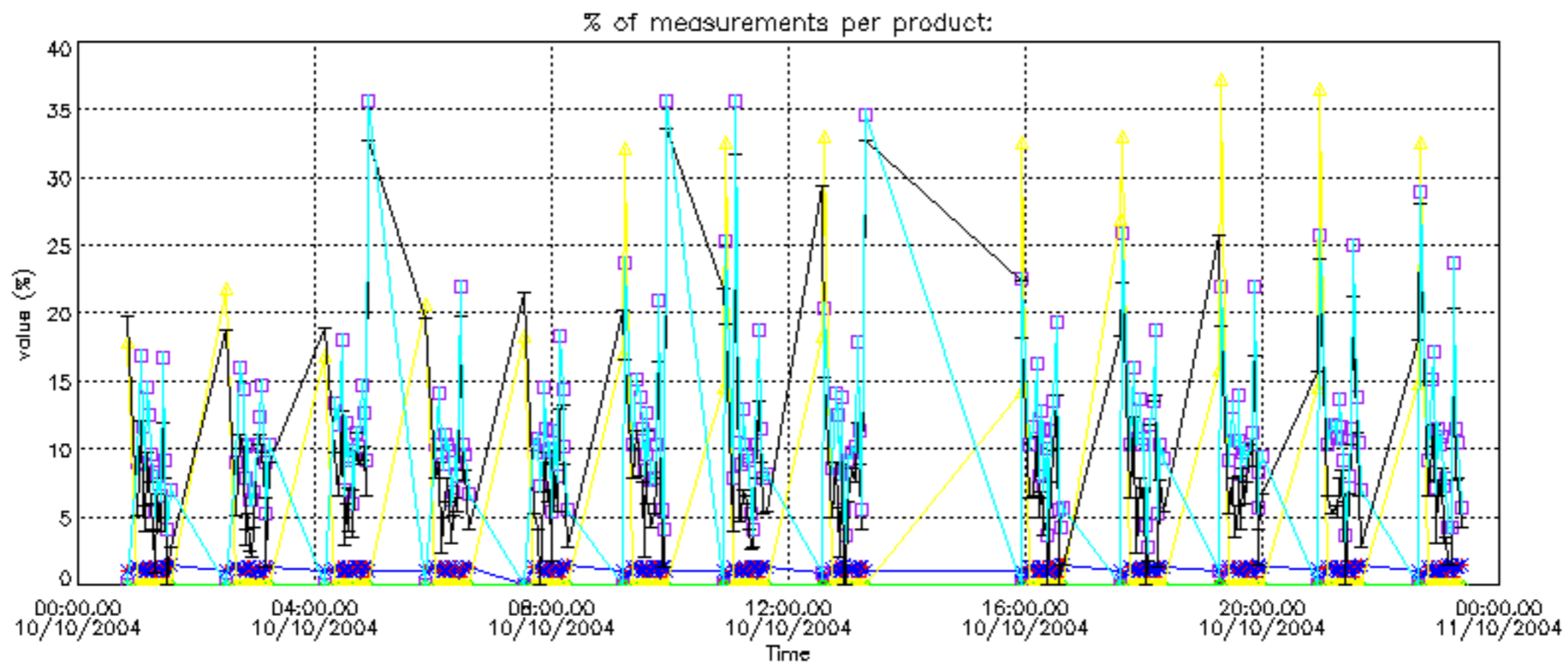
Percentage of flagged data per NO2 profile



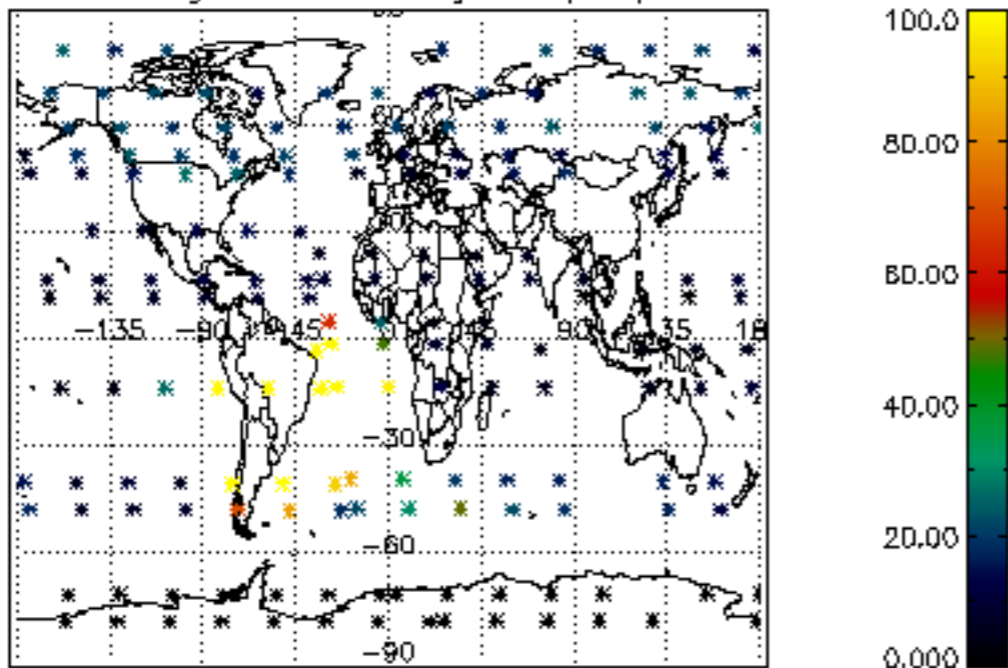
Percentage of flagged data per NO3 profile



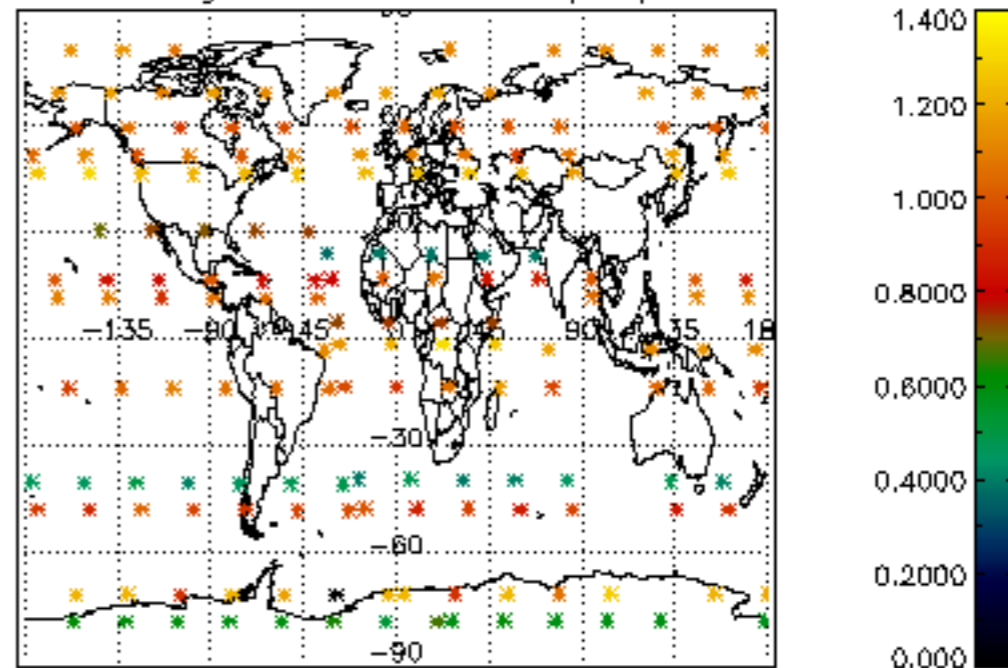




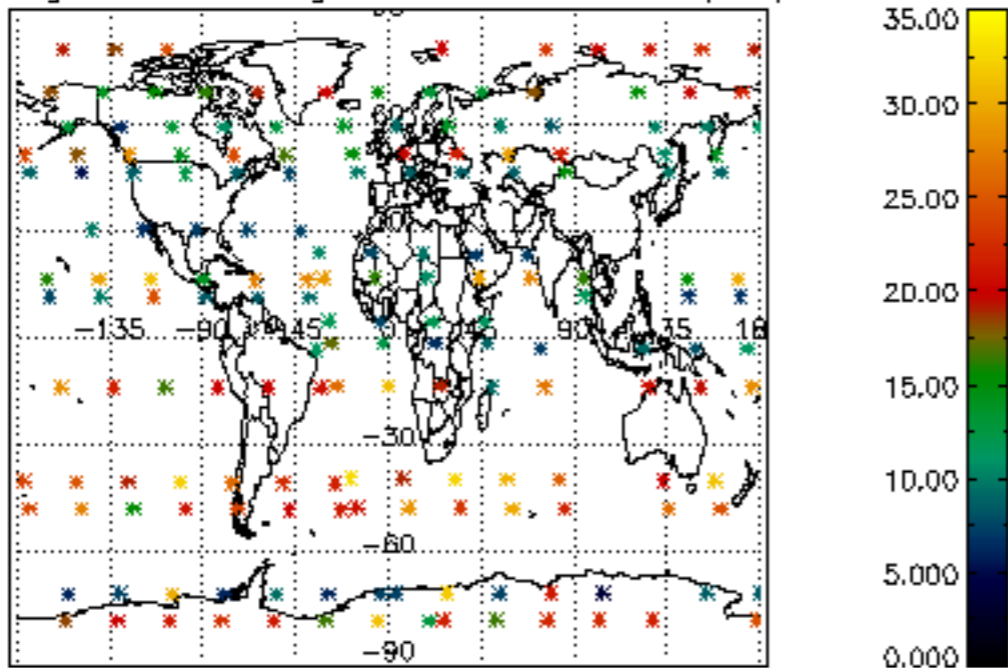
Percentage of cosmic ray hits per profile



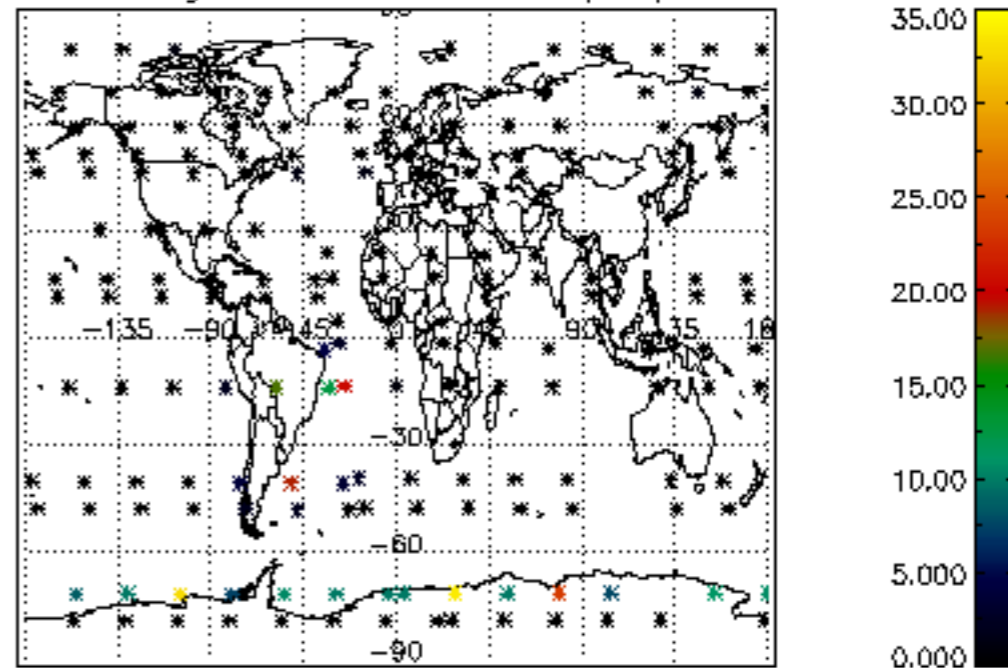
Percentage of datation errors per profile



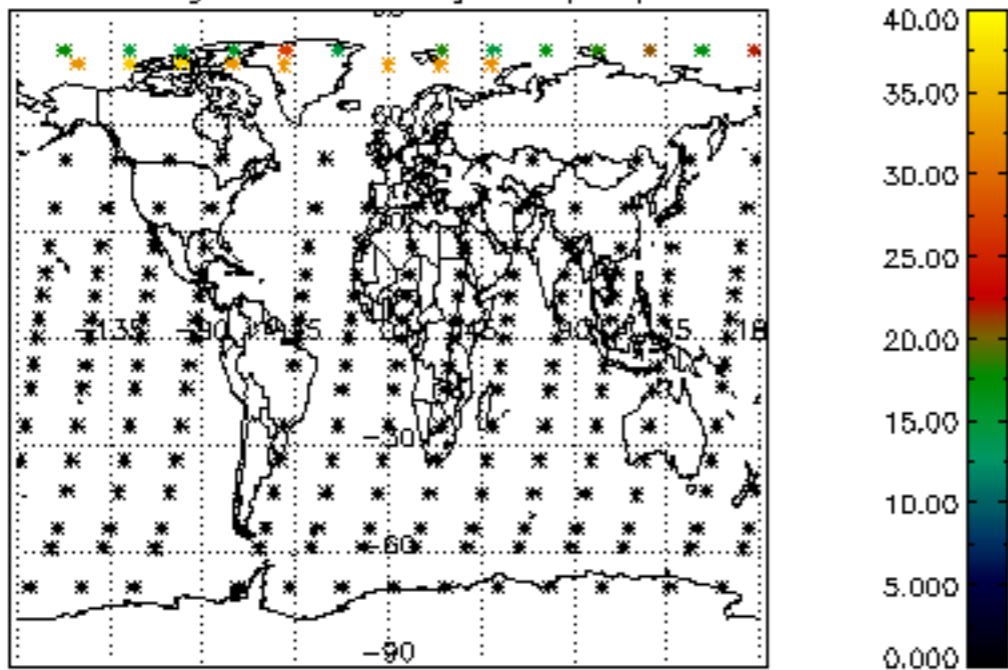
Percentage of star falling outside central band per profile



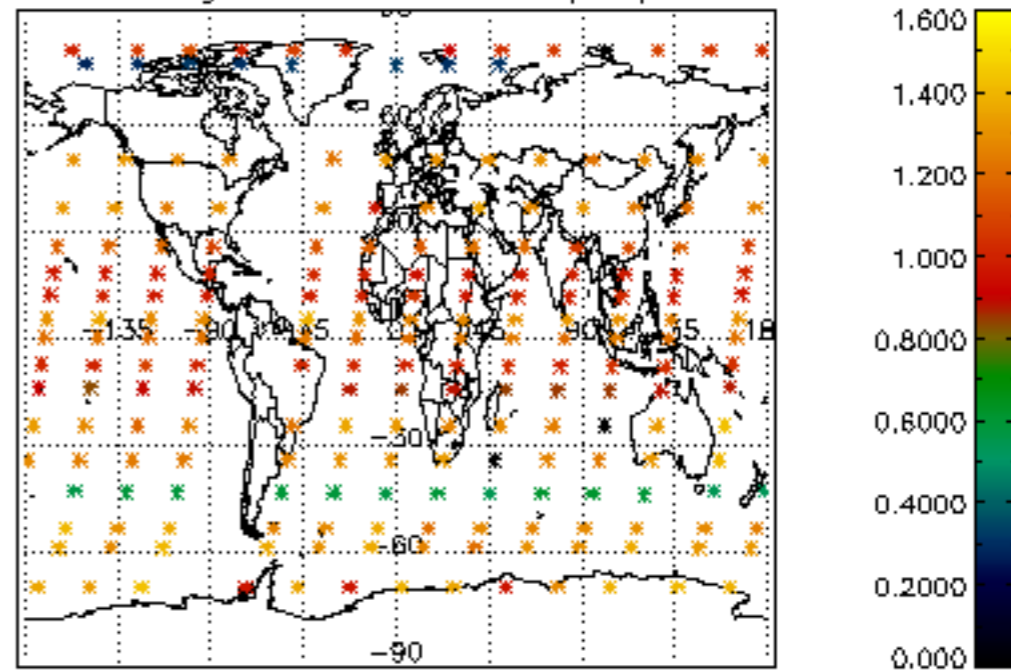
Percentage of saturation errors per profile



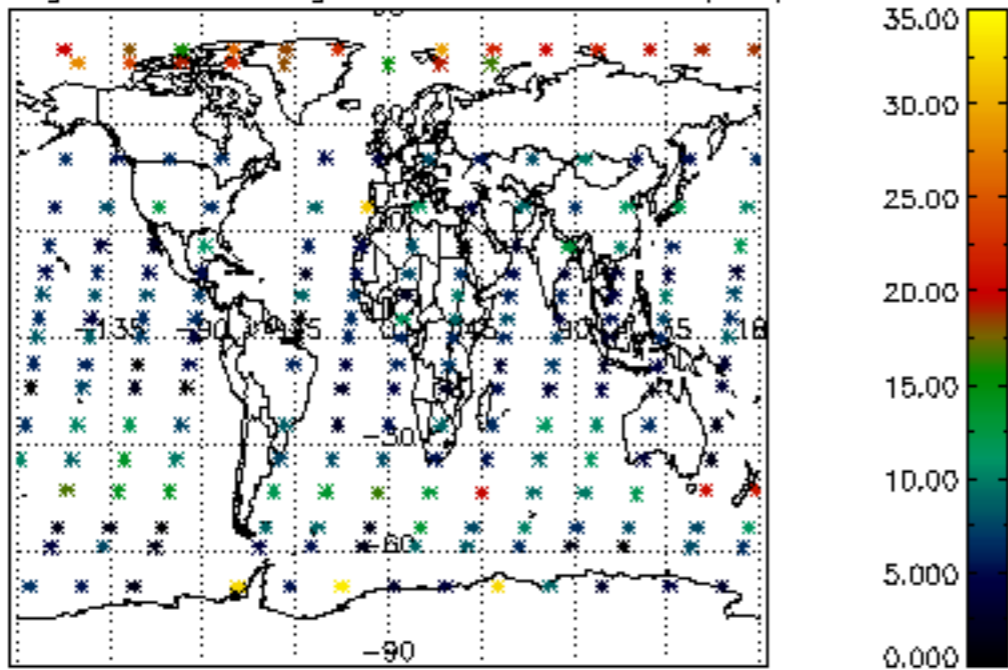
Percentage of cosmic ray hits per profile



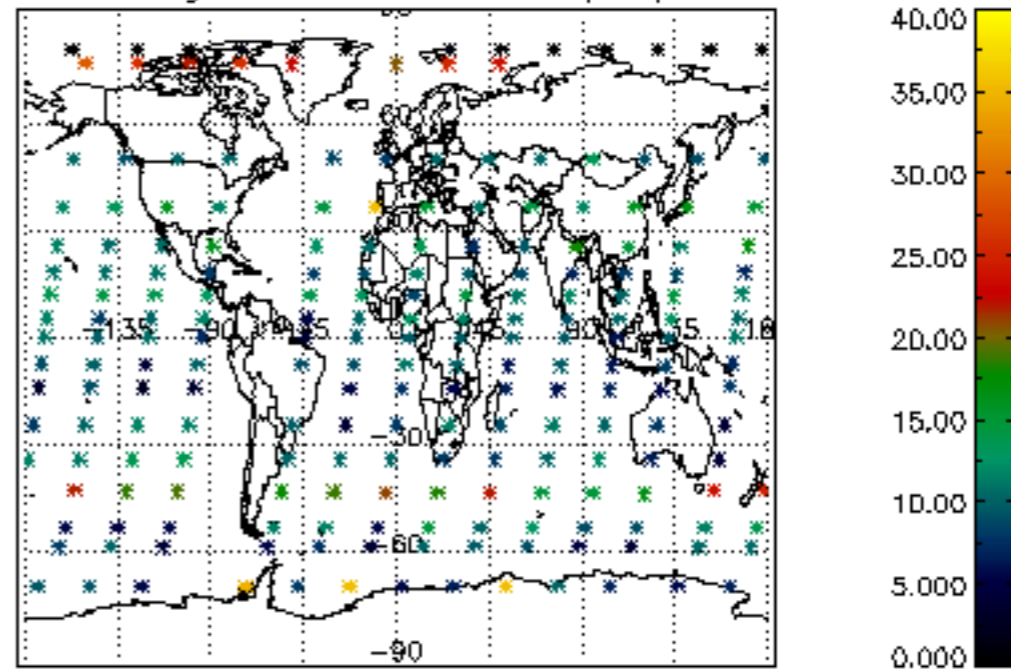
Percentage of datation errors per profile



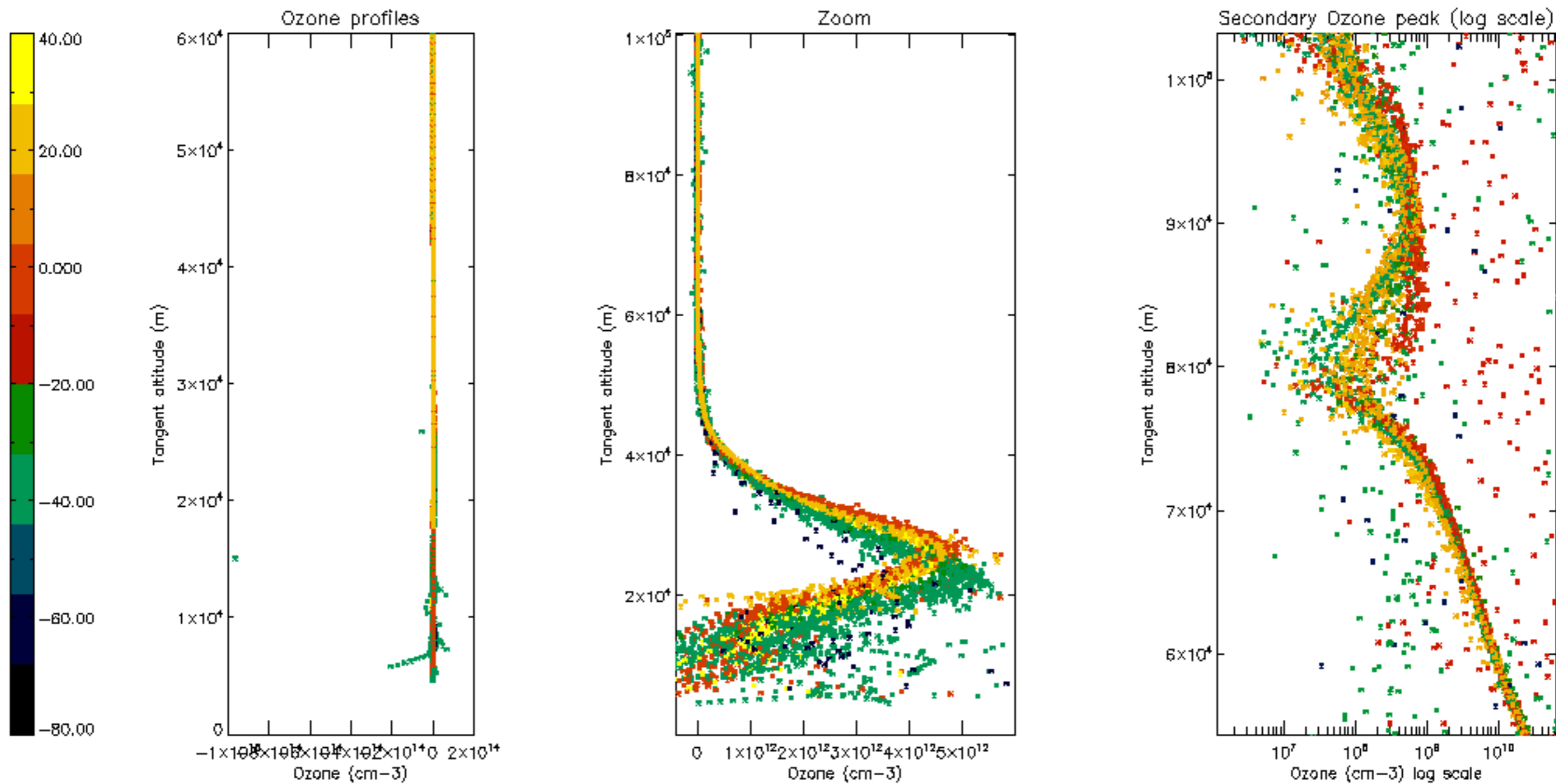
Percentage of star falling outside central band per profile

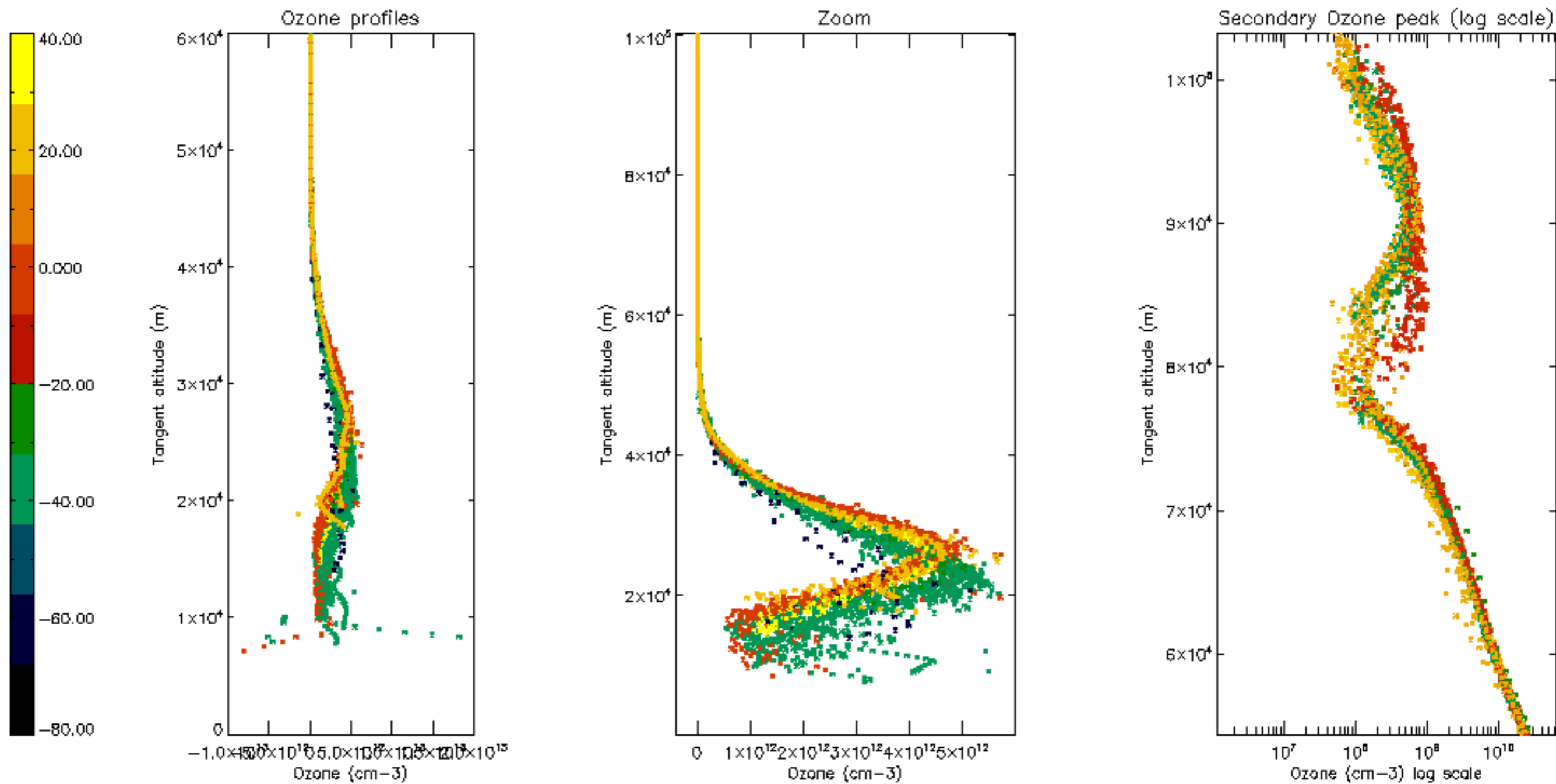


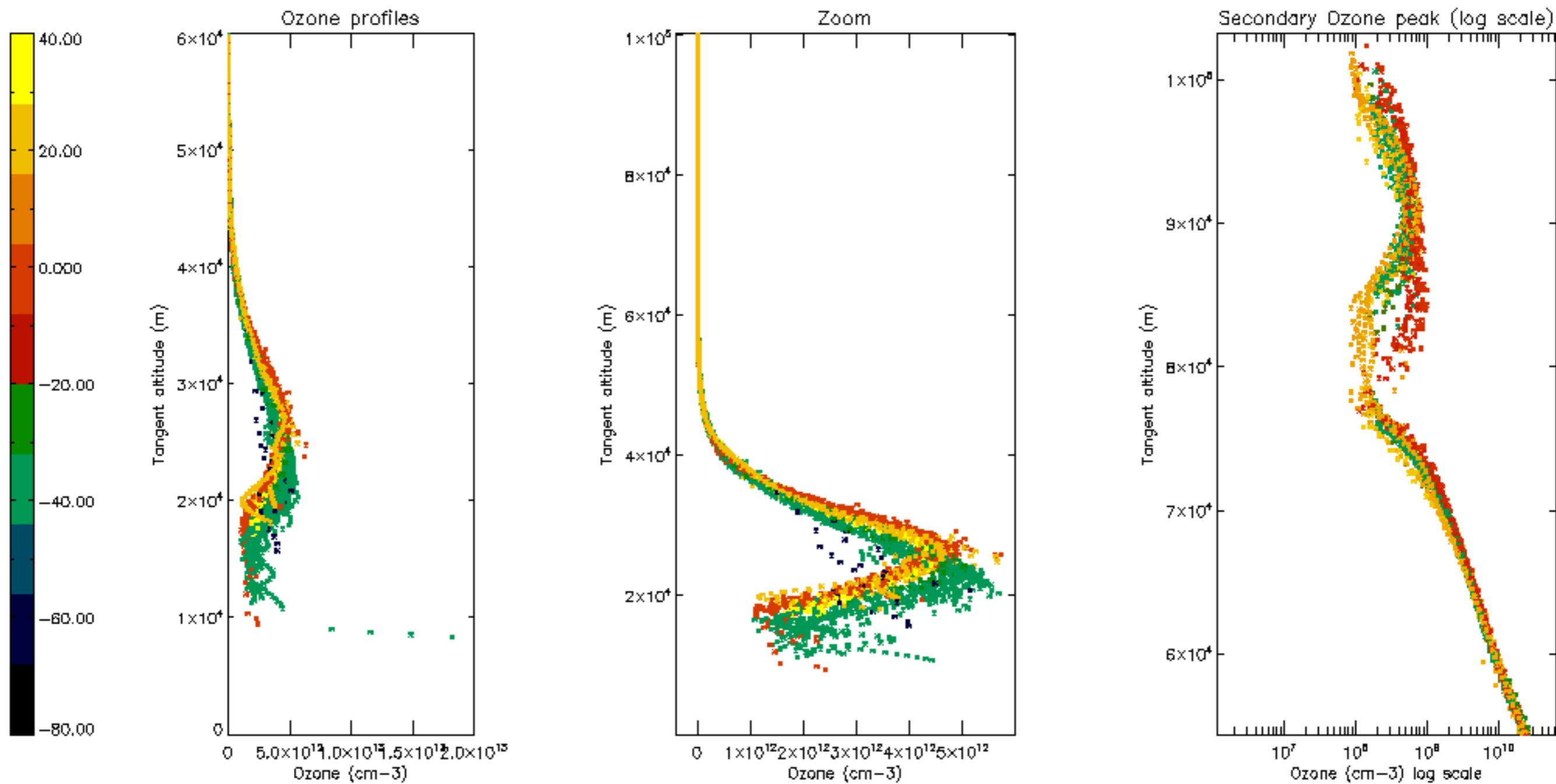
Percentage of saturation errors per profile

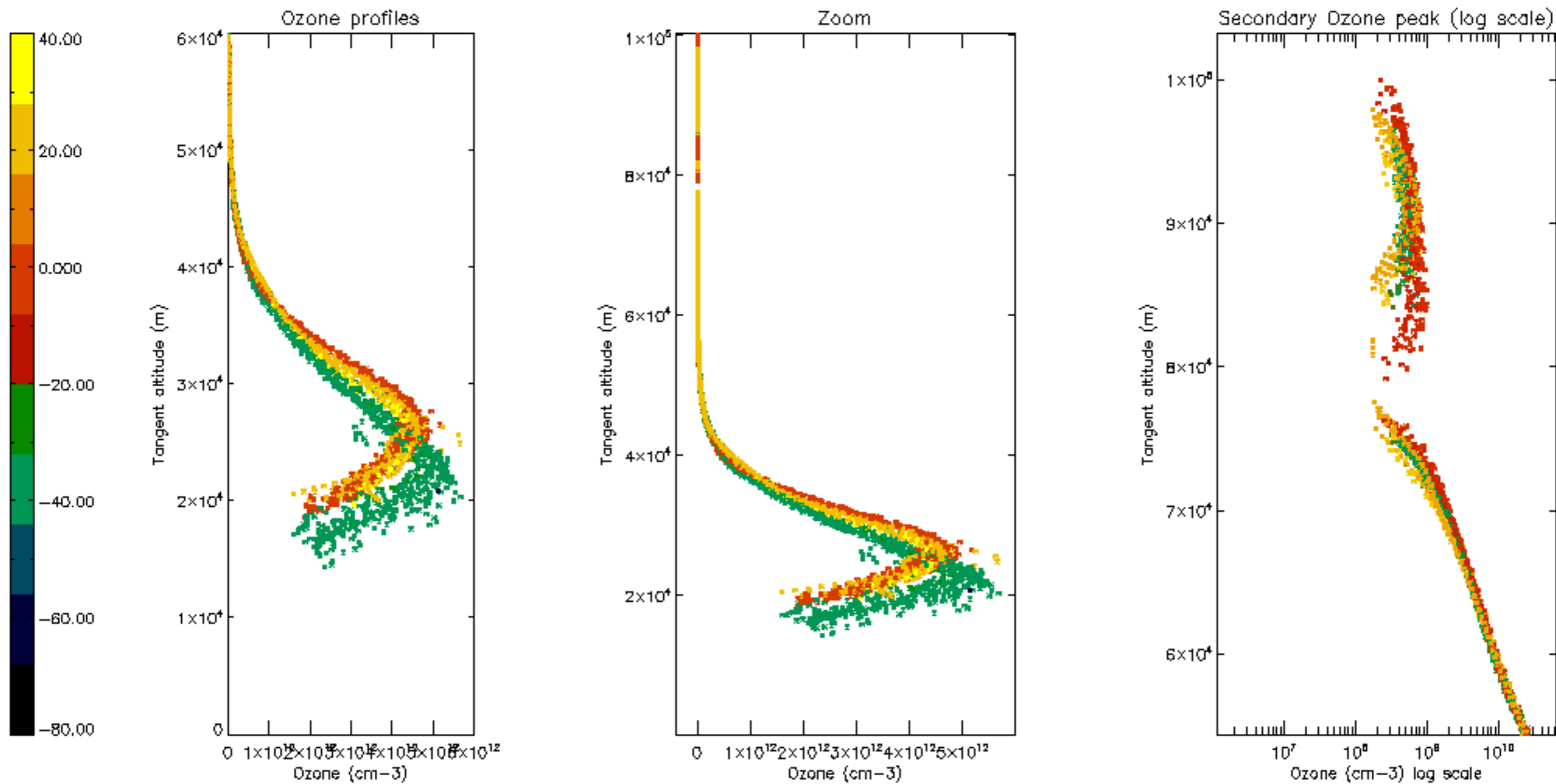


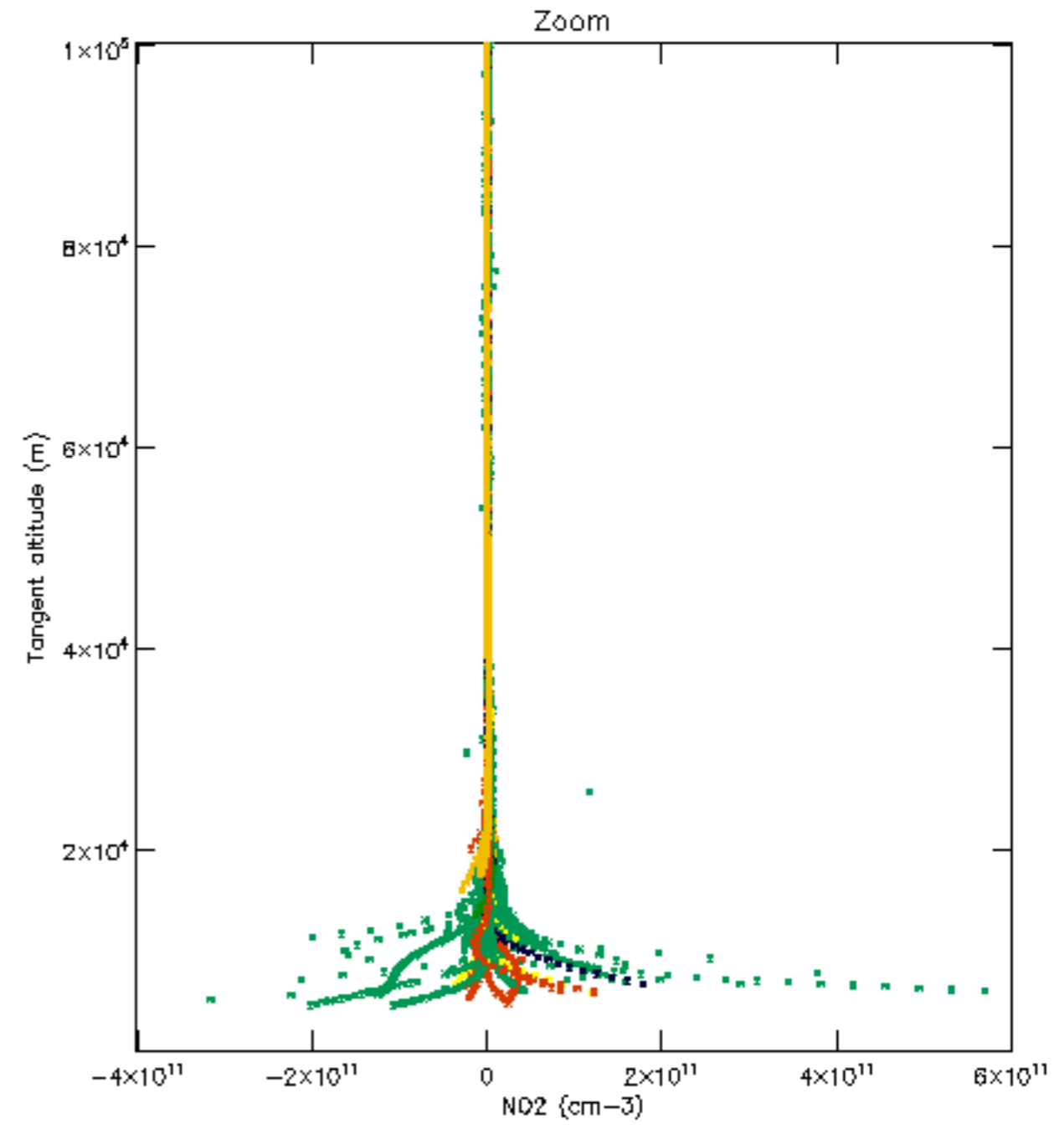
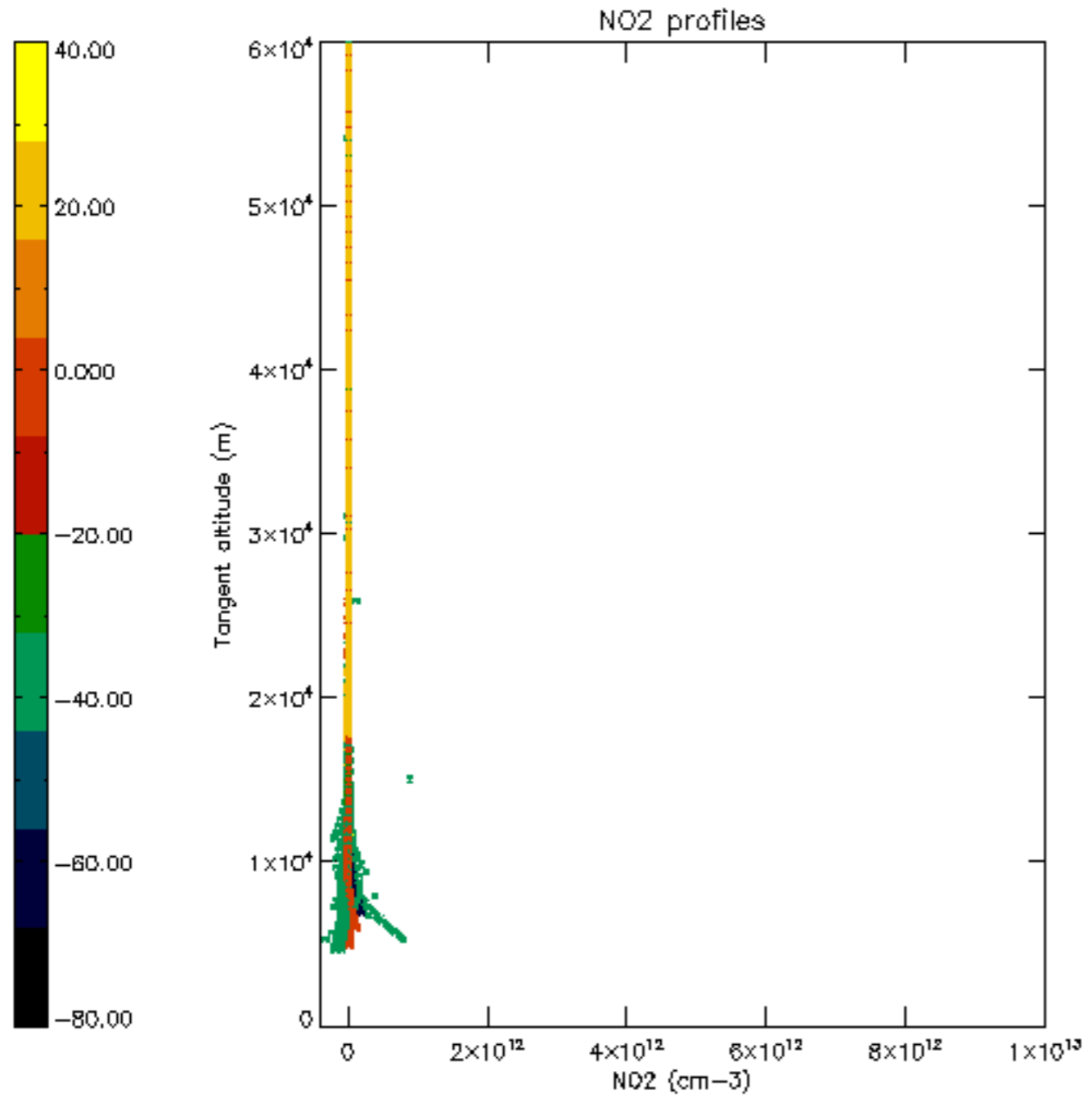


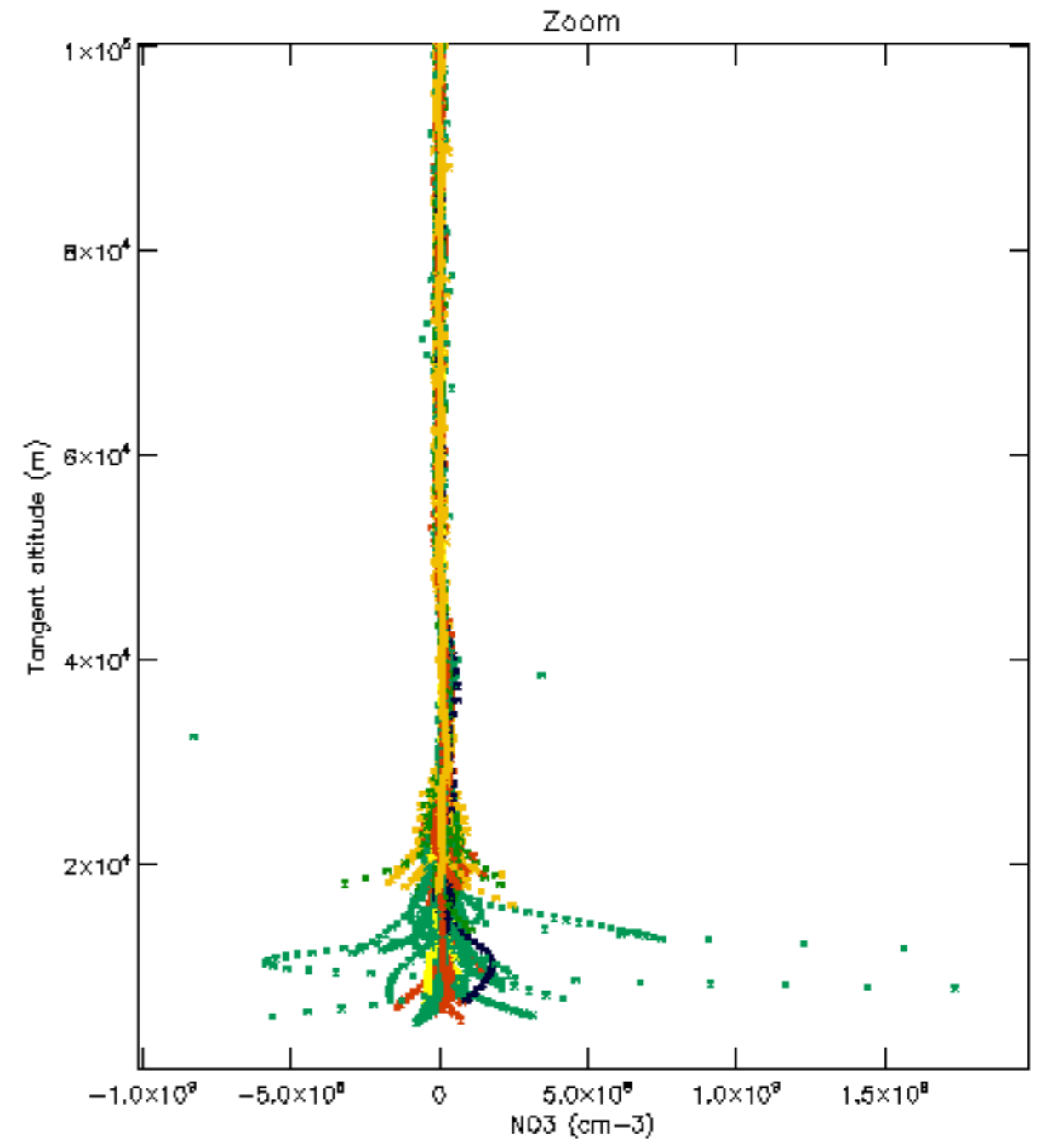
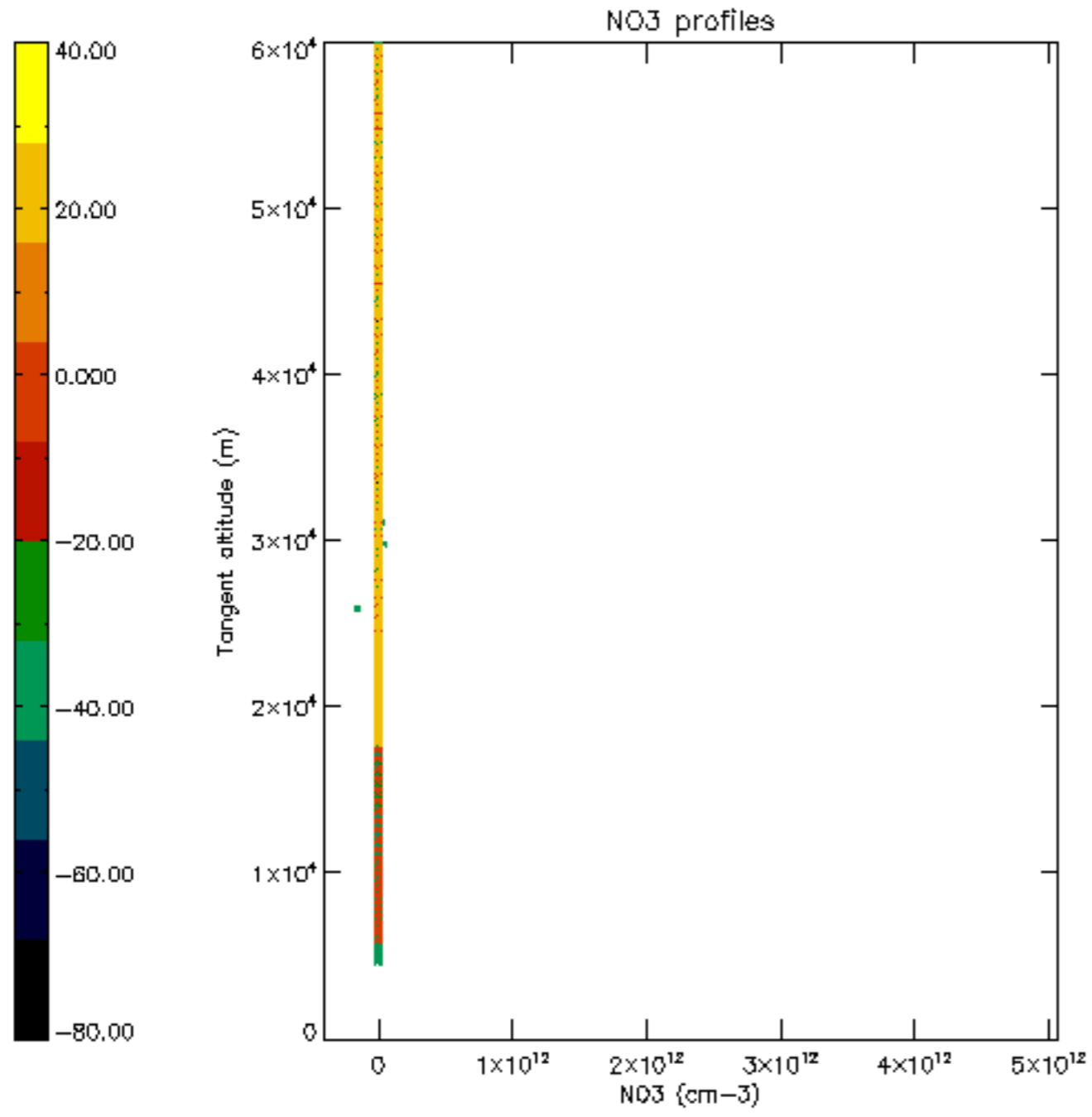


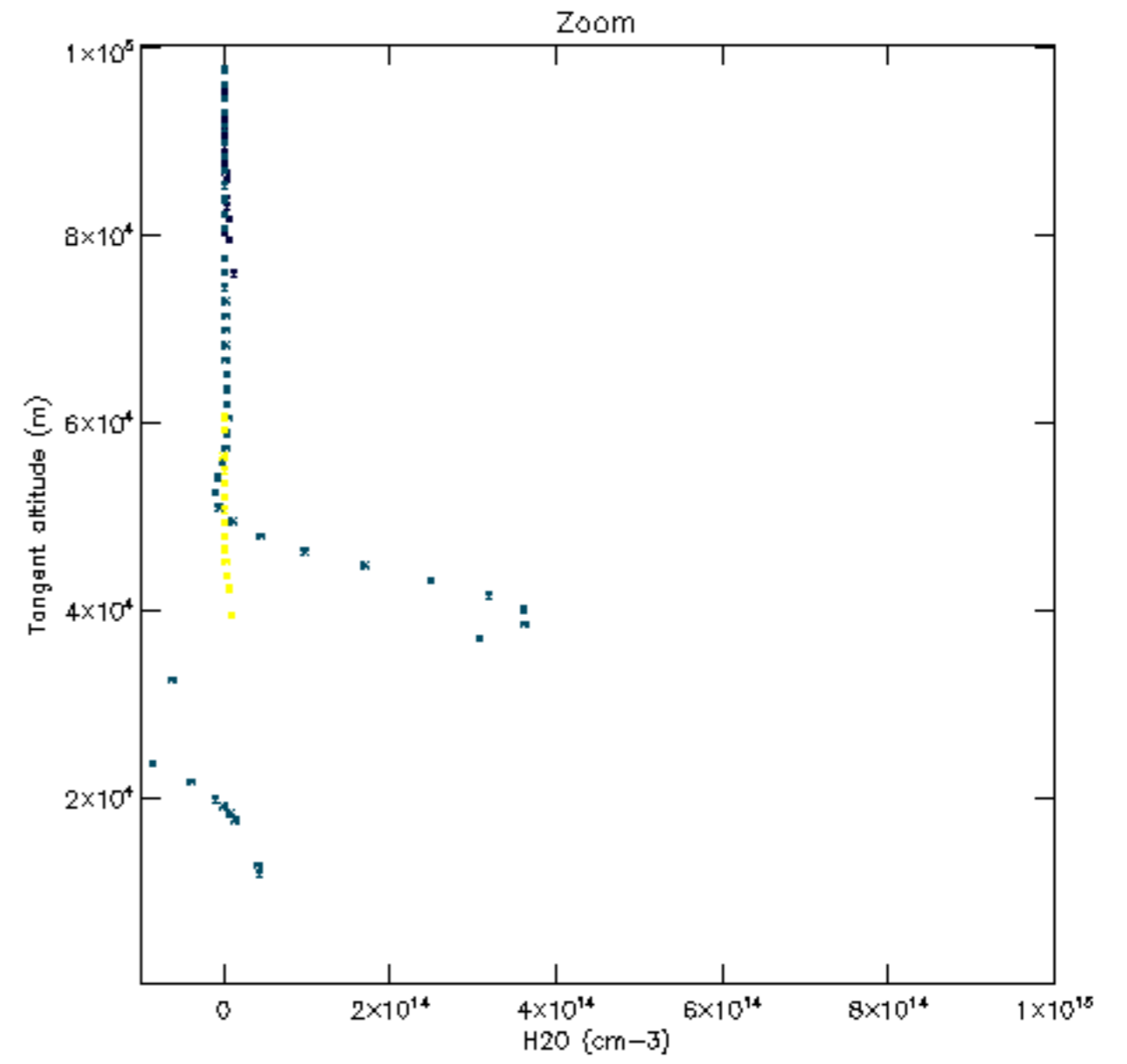
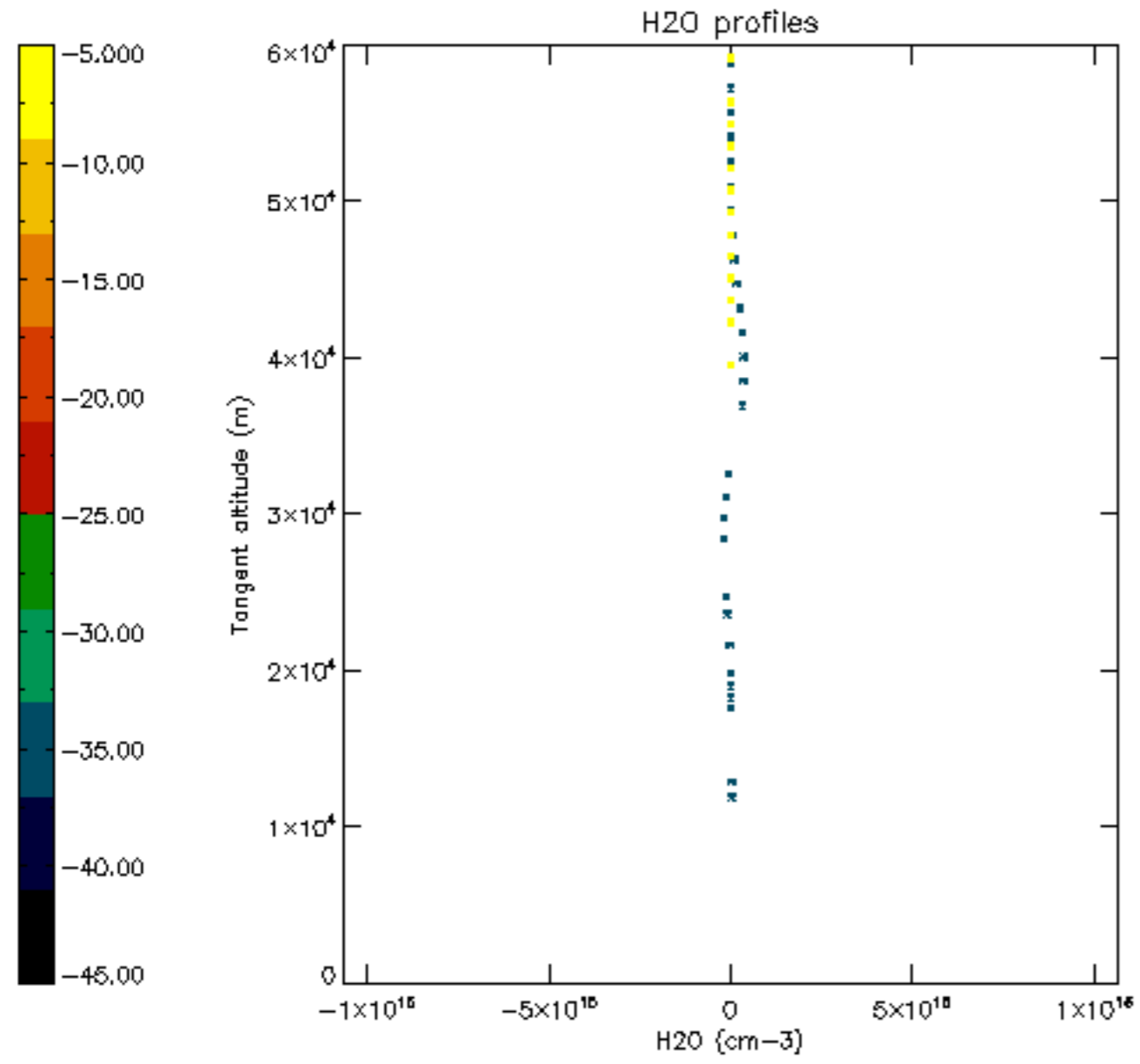


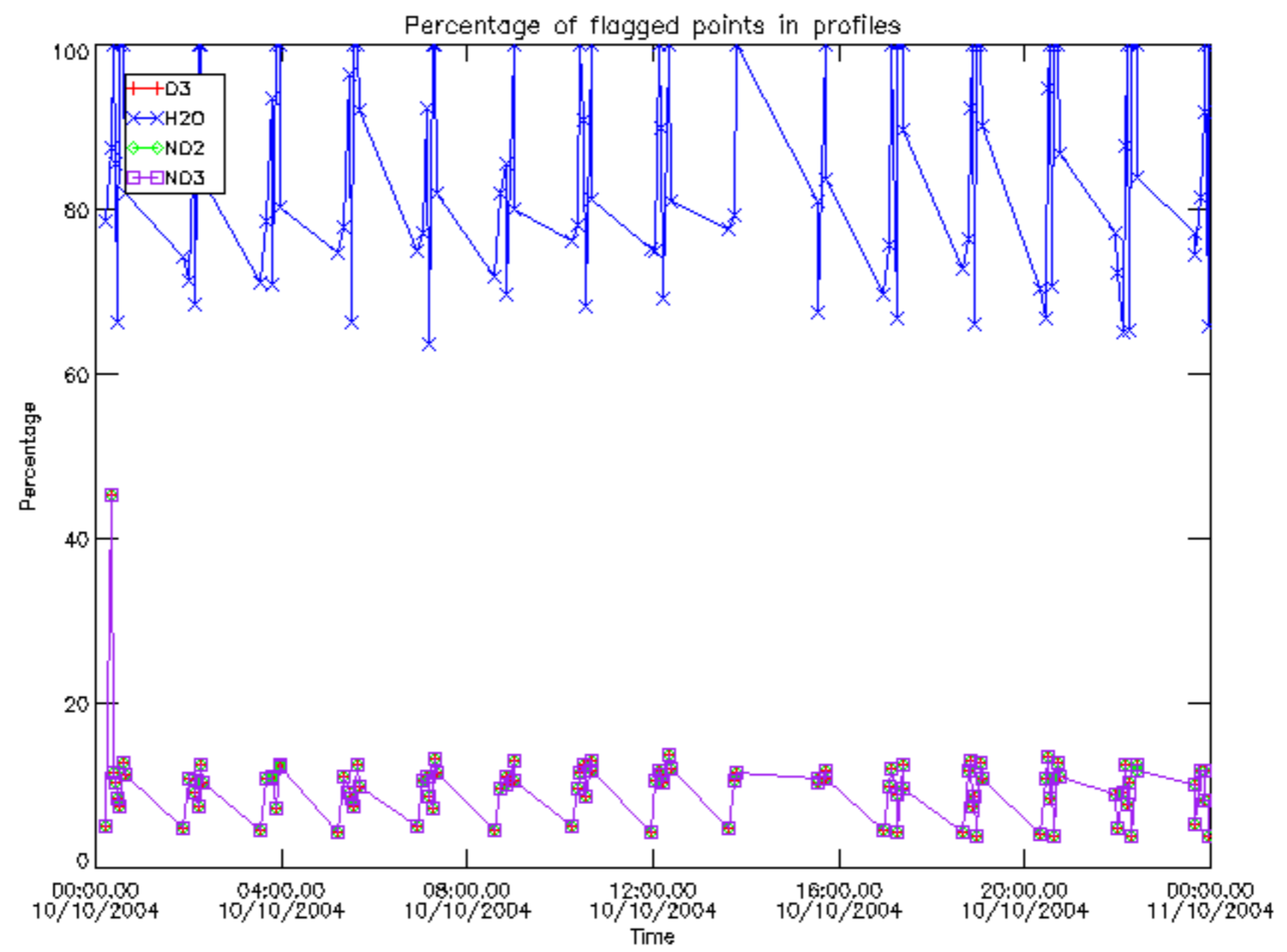






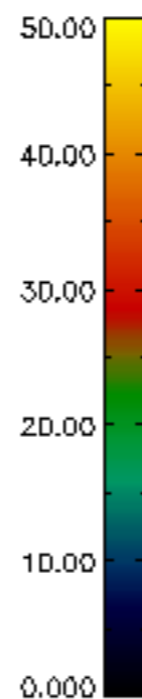
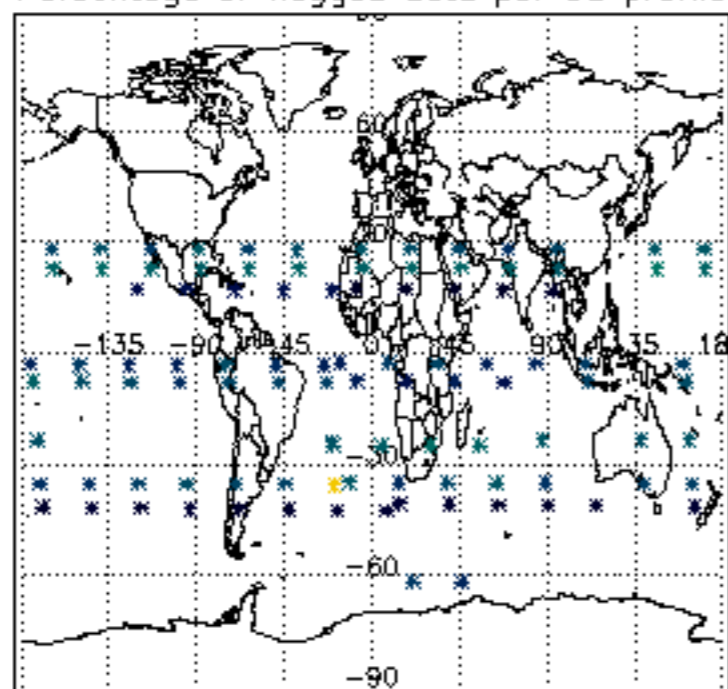




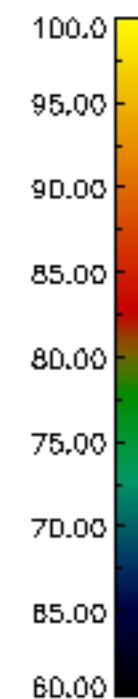
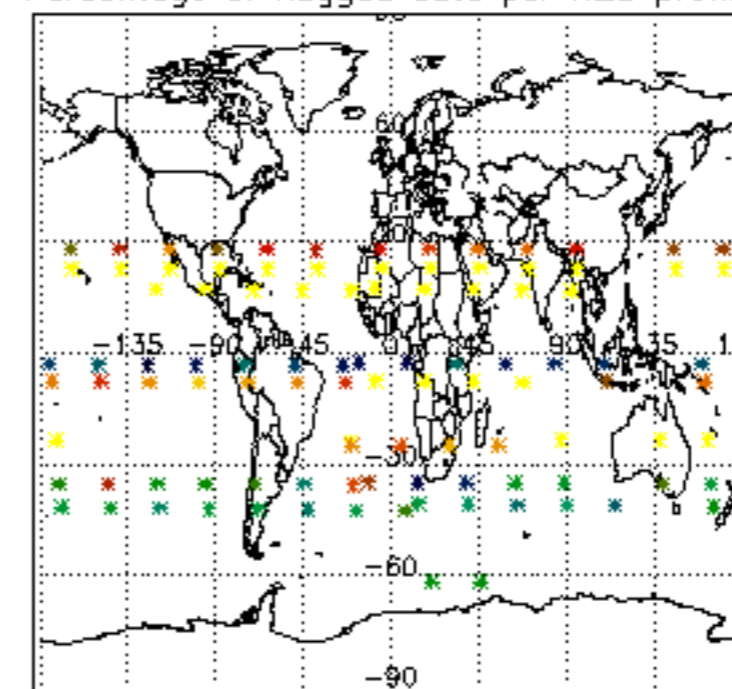




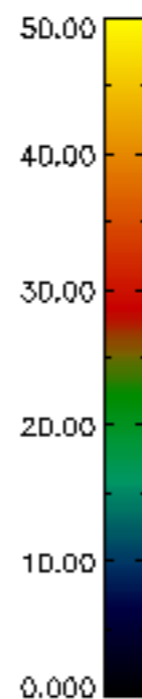
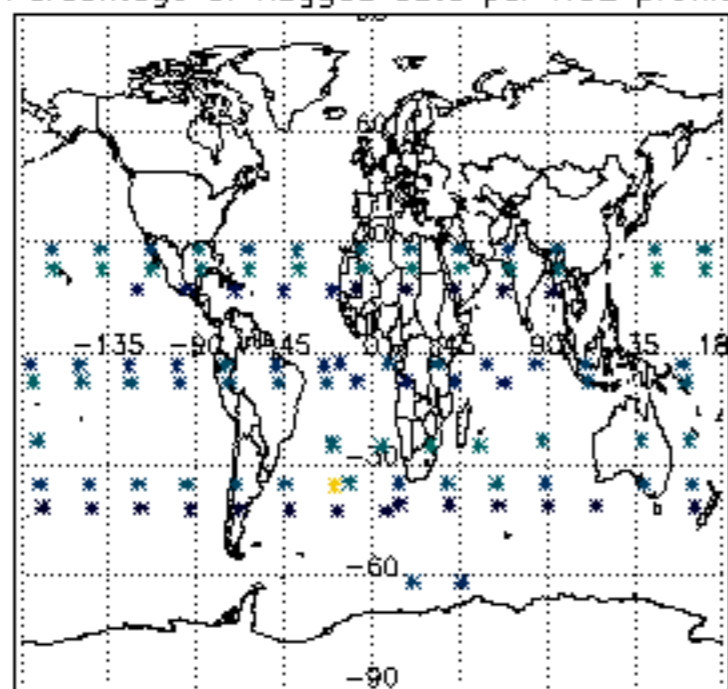
Percentage of flagged data per D3 profile



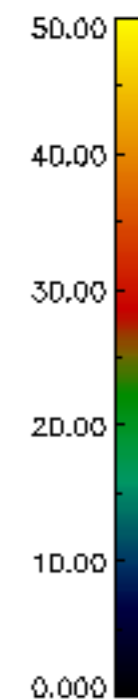
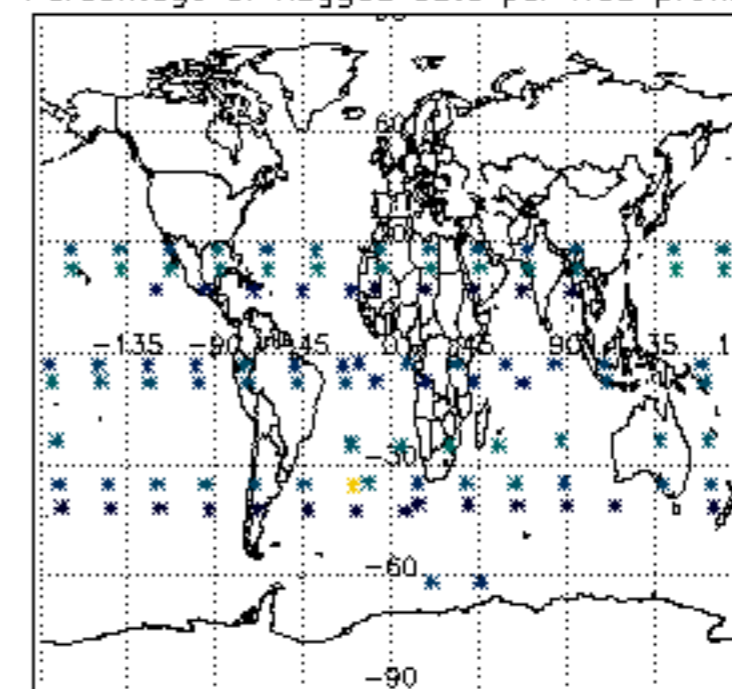
Percentage of flagged data per H2O profile

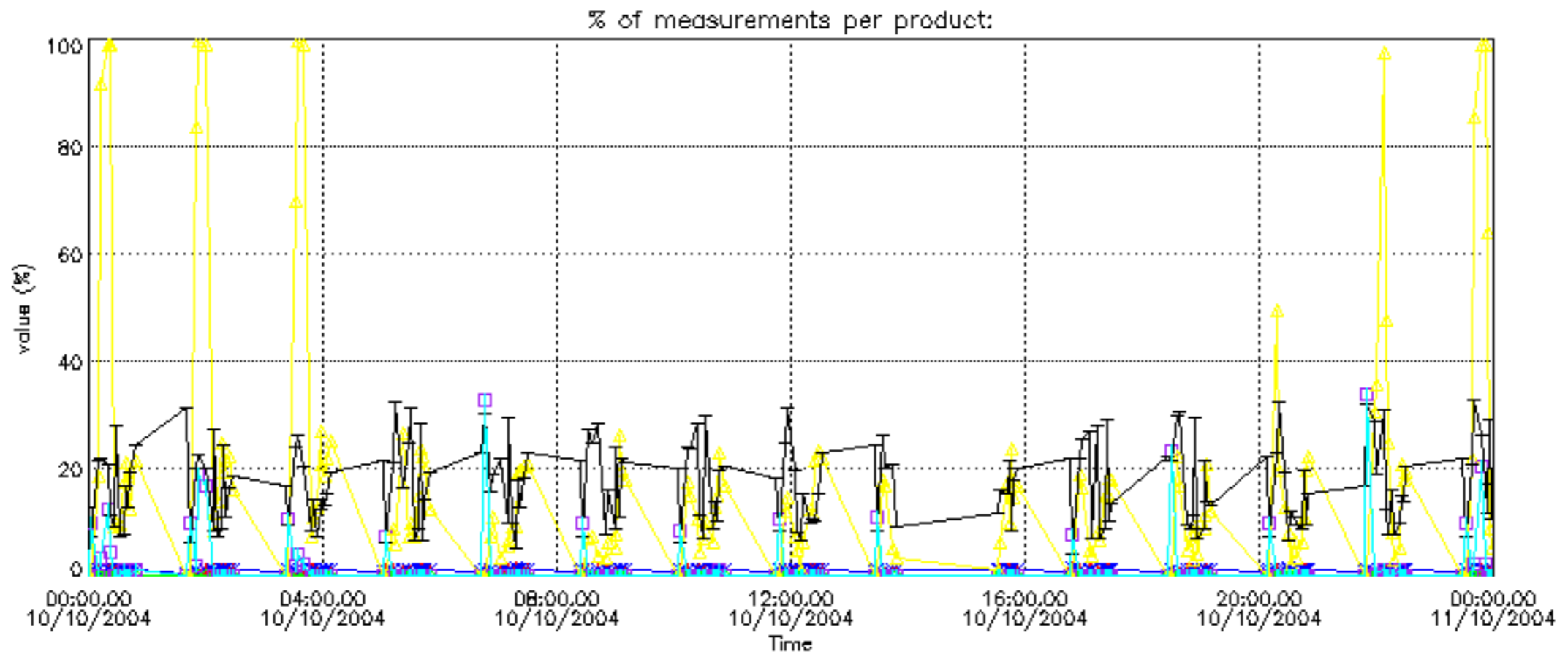


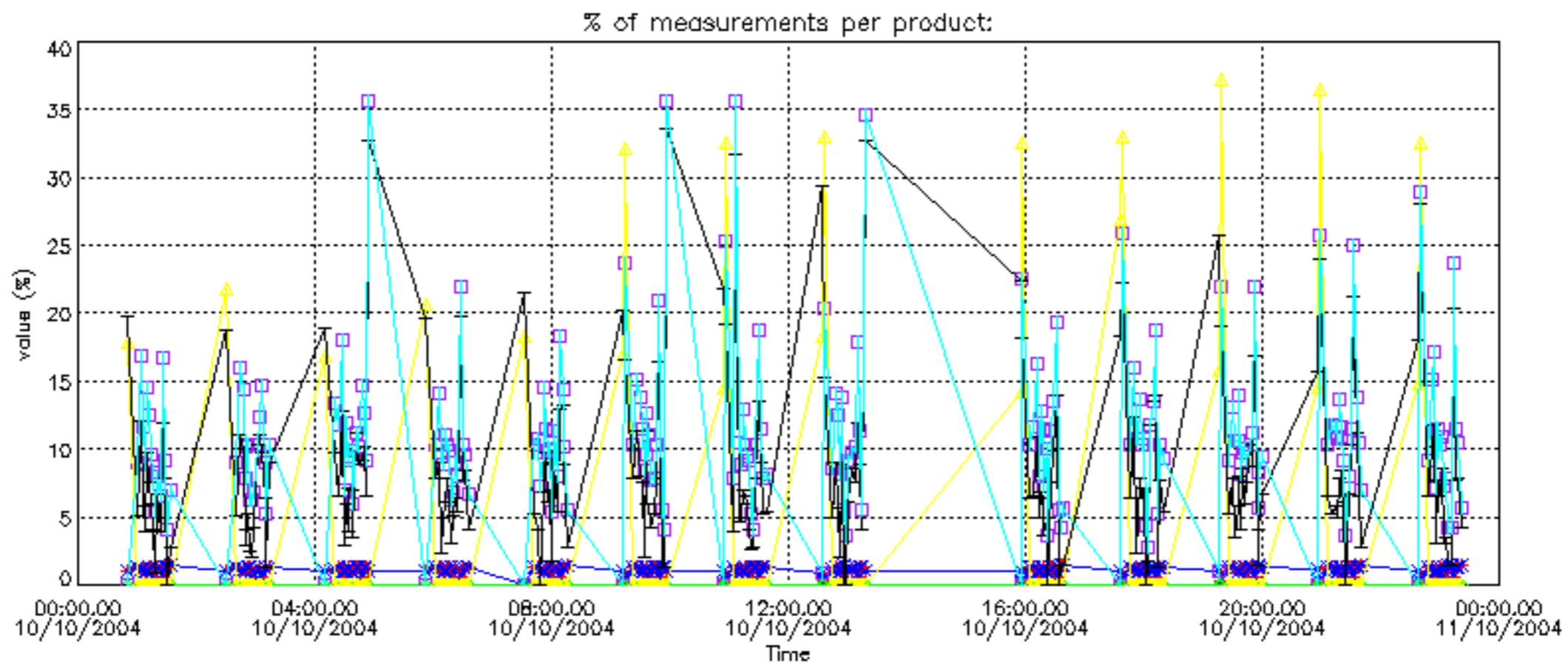
Percentage of flagged data per NO2 profile



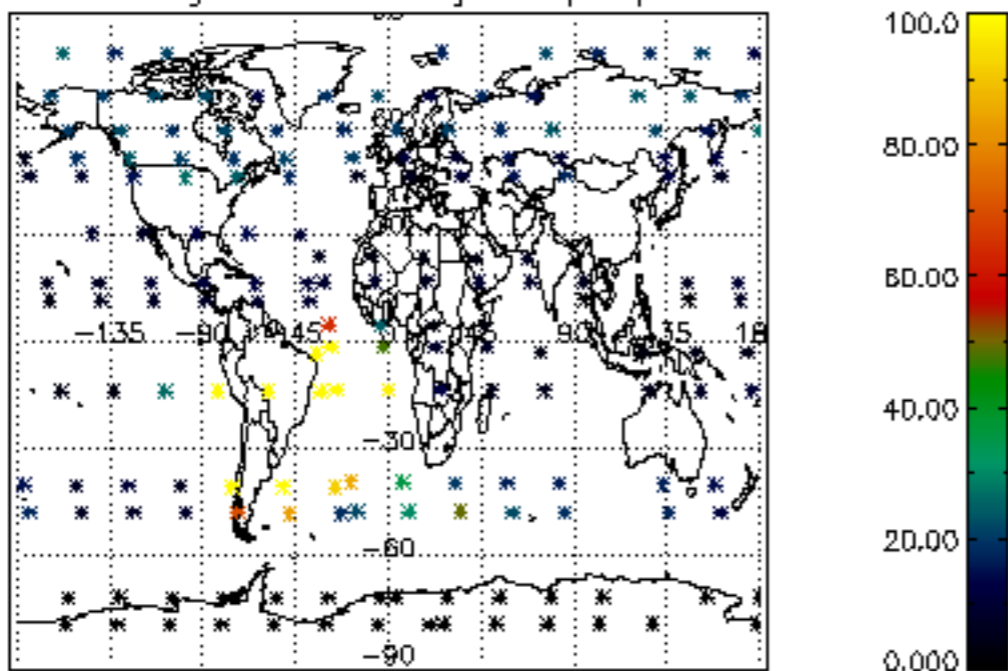
Percentage of flagged data per NO3 profile



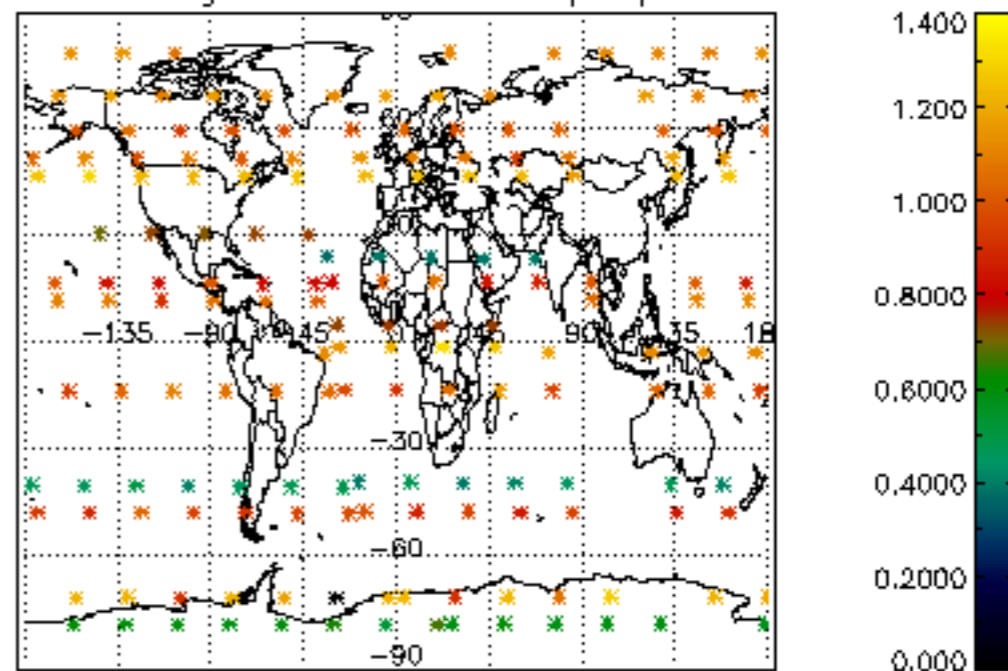




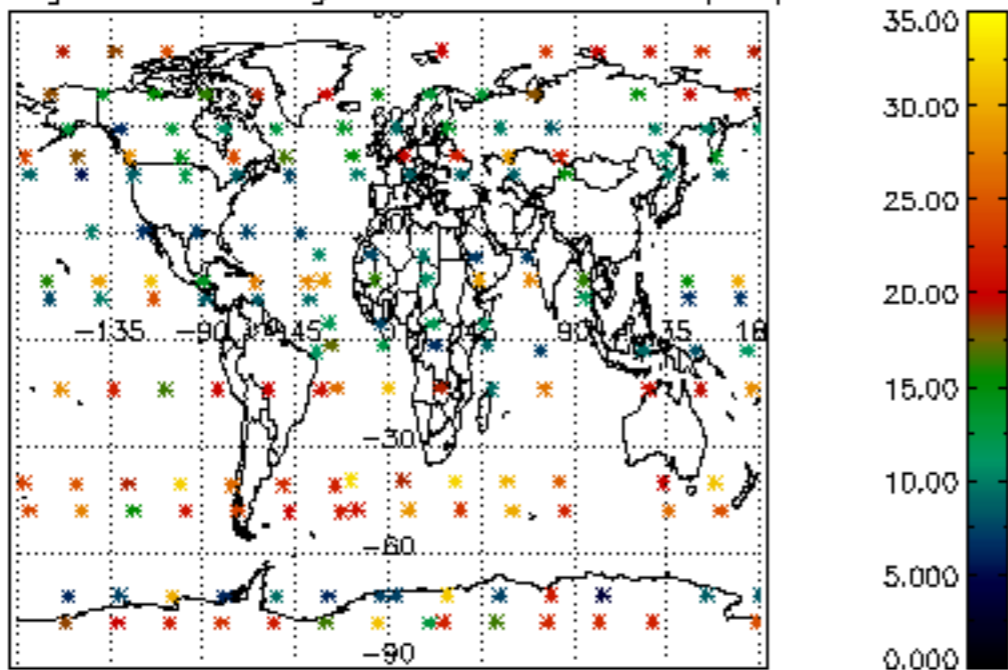
Percentage of cosmic ray hits per profile



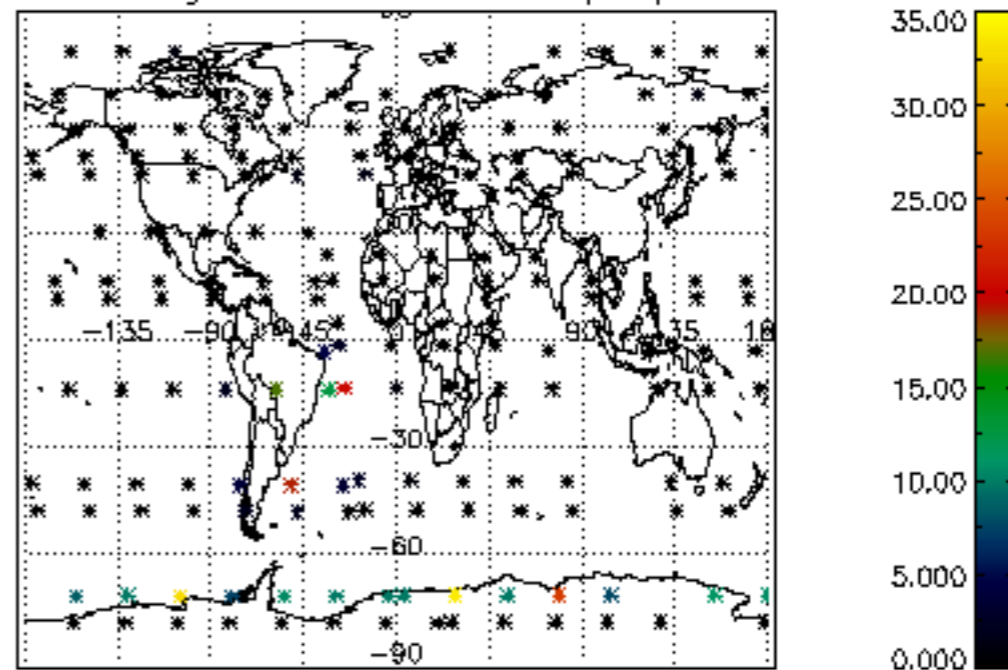
Percentage of datation errors per profile



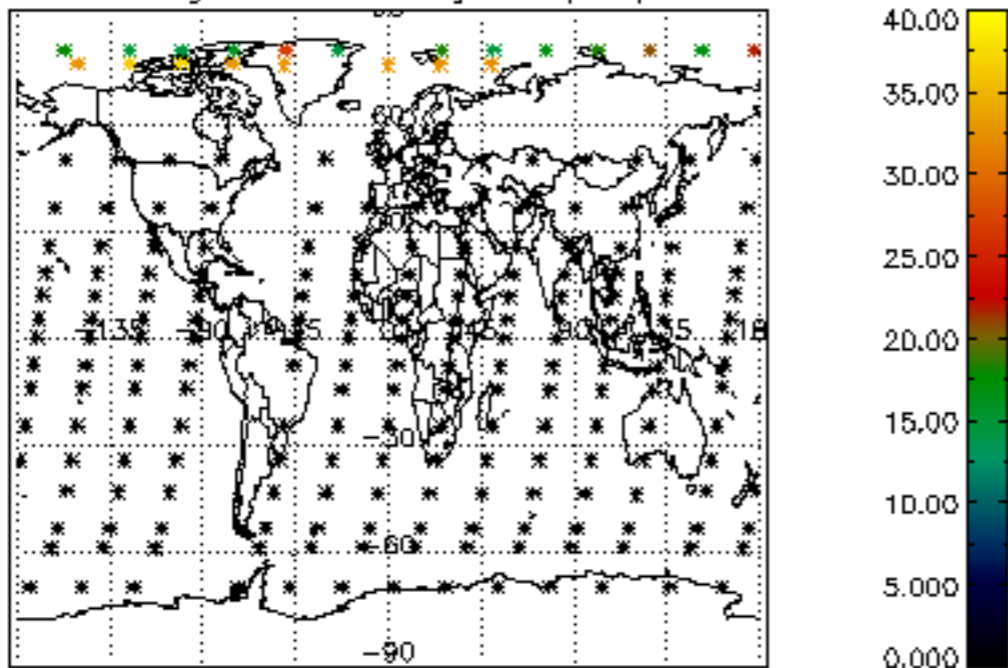
Percentage of star falling outside central band per profile



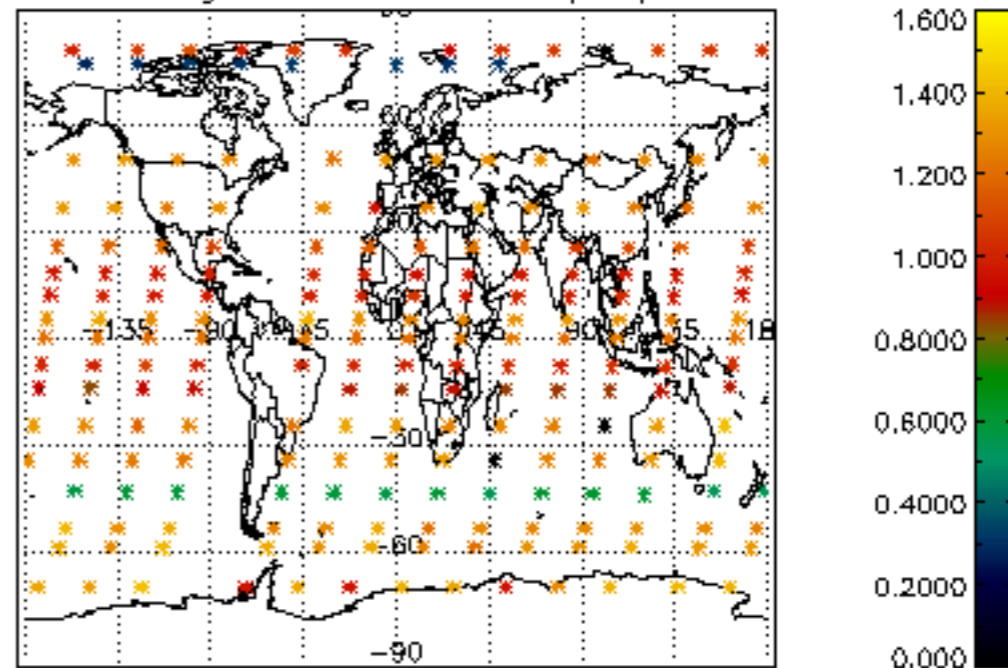
Percentage of saturation errors per profile



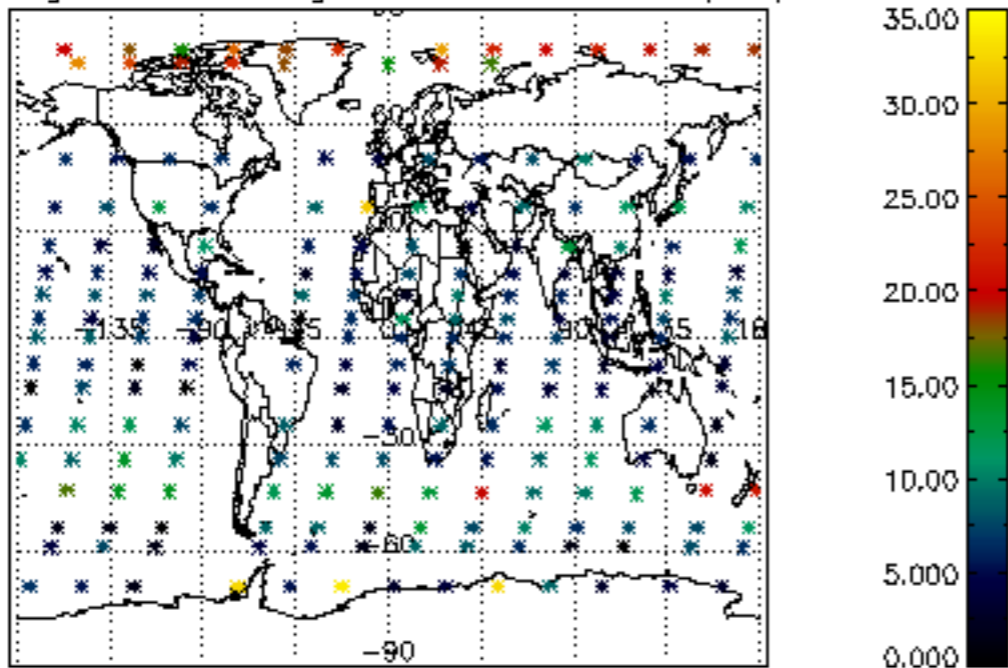
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

