

# 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 06:54:08
Data source version	GOMOS/6.01
Start time of products	22-07-2004 (22JUL2004 00:00:00)
Stop time of products	23-07-2004 (23JUL2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	451
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__2PRFIN20040722_000413_000000432028_00431_12509_2967.N1	22-JUL-2004 00:04:13	Bright	43.000	160	23Gam Per	2.9300	4700.0	86	12509	No
2	GOM_NL__2PRFIN20040722_000540_000000442028_00431_12509_2968.N1	22-JUL-2004 00:05:40	Bright	43.500	35	33Alp Per	1.7950	6250.0	87	12509	No
3	GOM_NL__2PRFIN20040722_000727_000000712028_00431_12509_2969.N1	22-JUL-2004 00:07:27	Bright	70.500	73	57Gam1And	2.2600	13100.	141	12509	No
4	GOM_NL__2PRFIN20040722_001026_000001402028_00431_12509_2970.N1	22-JUL-2004 00:10:26	Straylight	140.00	53	43Bet And	2.0480	3300.0	280	12509	No
5	GOM_NL__2PRFIN20040722_001439_000000502028_00431_12509_2971.N1	22-JUL-2004 00:14:39	Twilight	49.500	146	25Eta Tau	2.8730	15200.	99	12509	No
6	GOM_NL__2PRFIN20040722_001613_000000572028_00431_12509_2972.N1	22-JUL-2004 00:16:13	Dark	57.000	13	87Alp Tau	0.86700	3800.0	114	12509	No
7	GOM_NL__2PRFIN20040722_001820_000000412028_00431_12509_2973.N1	22-JUL-2004 00:18:20	Dark	40.500	27	24Gam Ori	1.6360	26000.	81	12509	No
8	GOM_NL__2PRFIN20040722_002016_000000402028_00431_12509_2974.N1	22-JUL-2004 00:20:16	Dark	40.000	30	46Eps Ori	1.6940	30000.	80	12509	No
9	GOM_NL__2PRFIN20040722_002232_000000522028_00431_12509_2975.N1	22-JUL-2004 00:22:32	Dark	51.500	7	19Bet Ori	0.10000	14000.	103	12509	No
10	GOM_NL__2PRFIN20040722_002451_000000452028_00431_12509_2976.N1	22-JUL-2004 00:24:51	Dark	44.500	101	11Alp Lep	2.5820	7000.0	89	12509	No
11	GOM_NL__2PRFIN20040722_002915_000000402028_00431_12509_2977.N1	22-JUL-2004 00:29:15	Dark	39.500	108	Alp Col	2.6520	15200.	79	12509	No
12	GOM_NL__2PRFIN20040722_003521_000000462028_00431_12509_2978.N1	22-JUL-2004 00:35:21	Dark	46.000	157	The1Eri	2.9060	9300.0	92	12509	No
13	GOM_NL__2PRFIN20040722_004121_000000442028_00432_12510_2945.N1	22-JUL-2004 00:41:21	Dark	43.500	9	Alp Eri	0.45300	24000.	87	12510	No
14	GOM_NL__2PRFIN20040722_004417_000000412028_00432_12510_2946.N1	22-JUL-2004 00:44:17	Dark	40.500	135	Bet Hyi	2.8200	5800.0	81	12510	No
15	GOM_NL__2PRFIN20040722_004840_000000532028_00432_12510_2947.N1	22-JUL-2004 00:48:40	Straylight	53.000	148	Alp Tuc	2.8780	4100.0	106	12510	No
16	GOM_NL__2PRFIN20040722_005017_000000582028_00432_12510_2948.N1	22-JUL-2004 00:50:17	Straylight	57.500	63	Bet Gru	2.1500	2800.0	115	12510	No
17	GOM_NL__2PRFIN20040722_005145_000000522028_00432_12510_2949.N1	22-JUL-2004 00:51:45	Straylight	52.000	31	Alp Gru	1.7340	15200.	104	12510	No
18	GOM_NL__2PRFIN20040722_005441_000000842028_00432_12510_2950.N1	22-JUL-2004 00:54:41	Straylight	83.500	18	24Alp PsA	1.1660	9700.0	167	12510	No
19	GOM_NL__2PRFIN20040722_005851_000000422028_00432_12510_2951.N1	22-JUL-2004 00:58:51	Tw_and_stray	42.000	178	lot1Sco	3.0220	6550.0	84	12510	No
20	GOM_NL__2PRFIN20040722_010005_000000412028_00432_12510_2952.N1	22-JUL-2004 01:00:05	Bright	40.500	38	20Eps Sgr	1.8360	11000.	81	12510	No
21	GOM_NL__2PRFIN20040722_010159_000000402028_00432_12510_2953.N1	22-JUL-2004 01:01:59	Bright	40.000	57	34Sig Sgr	2.0660	26000.	80	12510	No
22	GOM_NL__2PRFIN20040722_010345_000000672028_00432_12510_2954.N1	22-JUL-2004 01:03:45	Bright	66.500	142	49Del Cap	2.8500	8900.0	133	12510	No
23	GOM_NL__2PRFIN20040722_011118_000000382028_00432_12510_2955.N1	22-JUL-2004 01:11:18	Bright	37.500	126	60Bet Oph	2.7700	4250.0	75	12510	No
24	GOM_NL__2PRFIN20040722_011331_000000422028_00432_12510_2956.N1	22-JUL-2004 01:13:31	Bright	41.500	168	17Zet Aql	2.9860	11000.	83	12510	No
25	GOM_NL__2PRFIN20040722_012037_000000422028_00432_12510_2957.N1	22-JUL-2004 01:20:37	Bright	41.500	5	3Alp Lyr	0.033000	11000.	83	12510	No
26	GOM_NL__2PRFIN20040722_012323_000000412028_00432_12510_2958.N1	22-JUL-2004 01:23:23	Bright	41.000	144	18Del Cyg	2.8600	11000.	82	12510	No
27	GOM_NL__2PRFIN20040722_012514_000000492028_00432_12510_2959.N1	22-JUL-2004 01:25:14	Bright	49.000	19	50Alp Cyg	1.2460	10500.	98	12510	No
28	GOM_NL__2PRFIN20040722_012742_000000402028_00432_12510_2960.N1	22-JUL-2004 01:27:42	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	12510	No
29	GOM_NL__2PRFIN20040722_013025_000000442028_00432_12510_2961.N1	22-JUL-2004 01:30:25	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	12510	No
30	GOM_NL__2PRFIN20040722_013509_000000352028_00432_12510_2962.N1	22-JUL-2004 01:35:09	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	12510	No
31	GOM_NL__2PRFIN20040722_013736_000000532028_00432_12510_2963.N1	22-JUL-2004 01:37:36	Bright	52.500	74	11Bet Cas	2.2680	6600.0	105	12510	No
32	GOM_NL__2PRFIN20040722_013914_000000482028_00432_12510_2964.N1	22-JUL-2004 01:39:14	Bright	47.500	76	27Gam Cas	2.3000	30000.	95	12510	No
33	GOM_NL__2PRFIN20040722_014449_000000452028_00432_12510_2965.N1	22-JUL-2004 01:44:49	Bright	45.000	160	23Gam Per	2.9300	4700.0	90	12510	No
34	GOM_NL__2PRFIN20040722_014616_000000462028_00432_12510_2966.N1	22-JUL-2004 01:46:16	Bright	45.500	35	33Alp Per	1.7950	6250.0	91	12510	No
35	GOM_NL__2PRFIN20040722_014803_000000712028_00432_12510_2967.N1	22-JUL-2004 01:48:03	Bright	70.500	73	57Gam1And	2.2600	13100.	141	12510	No
36	GOM_NL__2PRFIN20040722_015102_000001412028_00432_12510_2968.N1	22-JUL-2004 01:51:02	Straylight	141.00	53	43Bet And	2.0480	3300.0	282	12510	No
37	GOM_NL__2PRFIN20040722_015516_000000502028_00432_12510_2969.N1	22-JUL-2004 01:55:16	Twilight	49.500	146	25Eta Tau	2.8730	15200.	99	12510	No
38	GOM_NL__2PRFIN20040722_015650_000000572028_00432_12510_2970.N1	22-JUL-2004 01:56:50	Dark	57.000	13	87Alp Tau	0.86700	3800.0	114	12510	No
39	GOM_NL__2PRFIN20040722_015856_000000412028_00432_12510_2971.N1	22-JUL-2004 01:58:56	Dark	40.500	27	24Gam Ori	1.6360	26000.	81	12510	No
40	GOM_NL__2PRFIN20040722_020052_000000392028_00432_12510_2972.N1	22-JUL-2004 02:00:52	Dark	39.000	30	46Eps Ori	1.6940	30000.	78	12510	No
41	GOM_NL__2PRFIN20040722_020308_000000482028_00432_12510_2973.N1	22-JUL-2004 02:03:08	Dark	48.000	7	19Bet Ori	0.10000	14000.	96	12510	No
42	GOM_NL__2PRFIN20040722_020527_000000462028_00432_12510_2974.N1	22-JUL-2004 02:05:27	Dark	46.000	101	11Alp Lep	2.5820	7000.0	92	12510	No











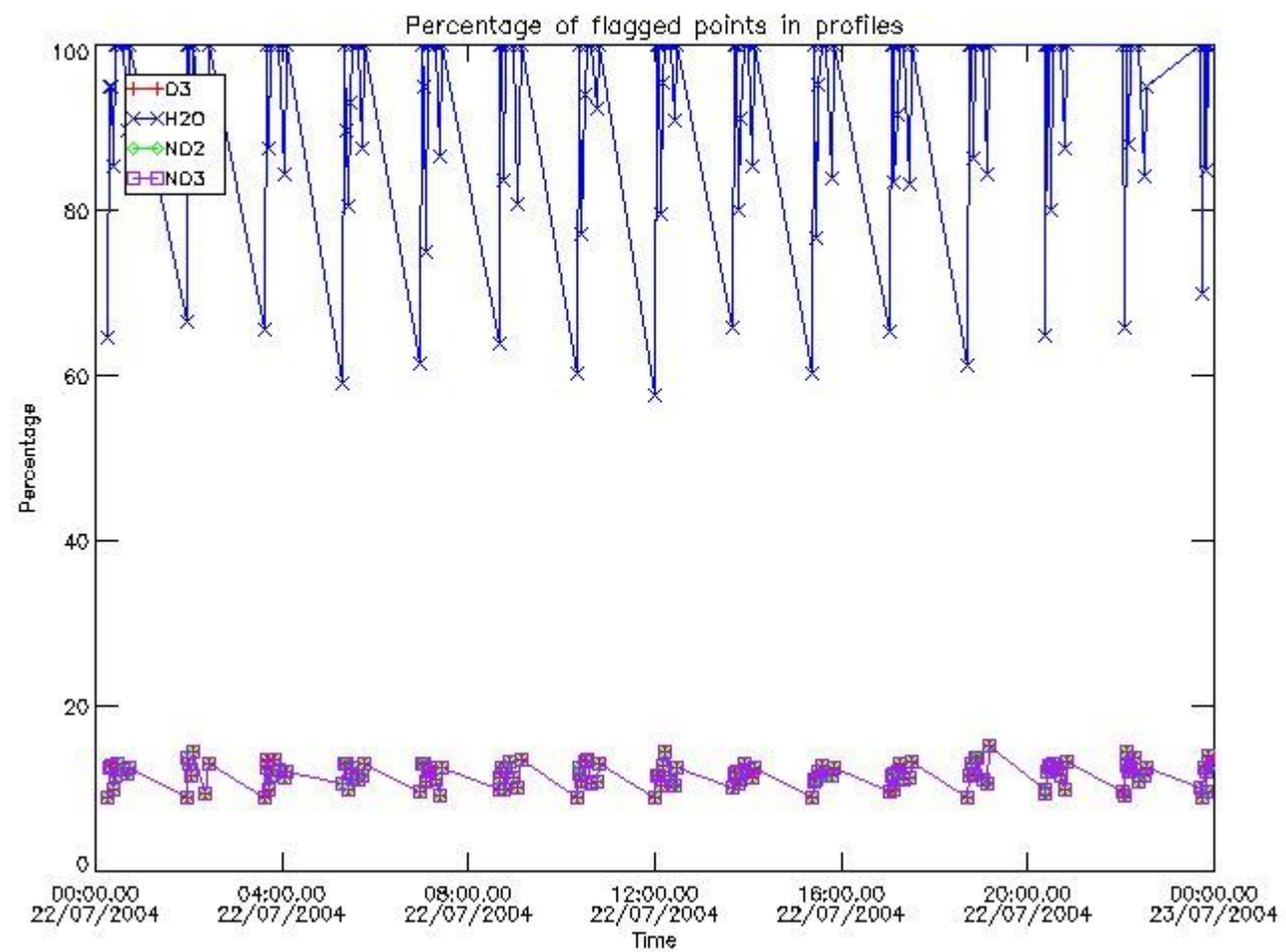






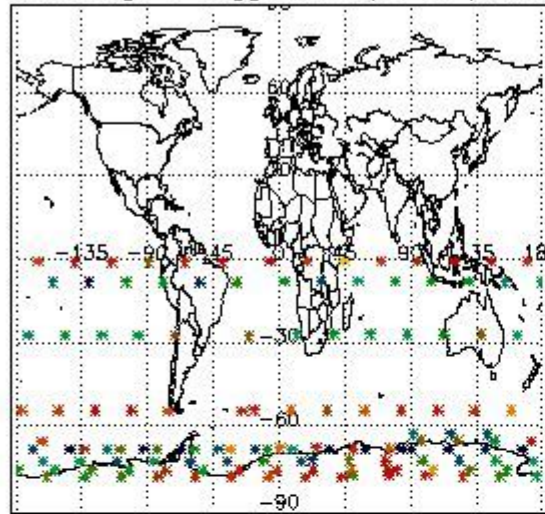
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

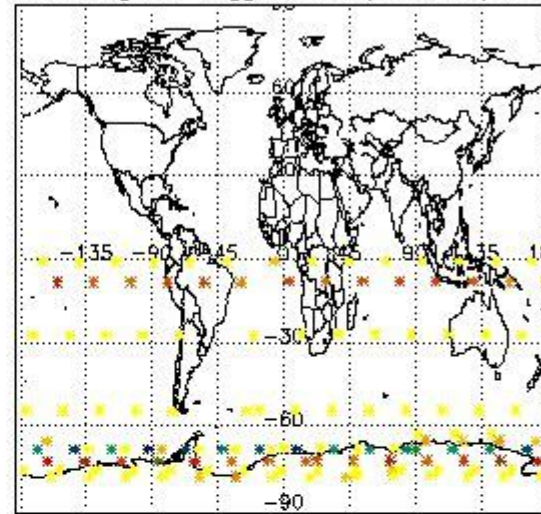


### 3.2 Plot quality information per product (world map)

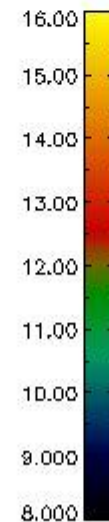
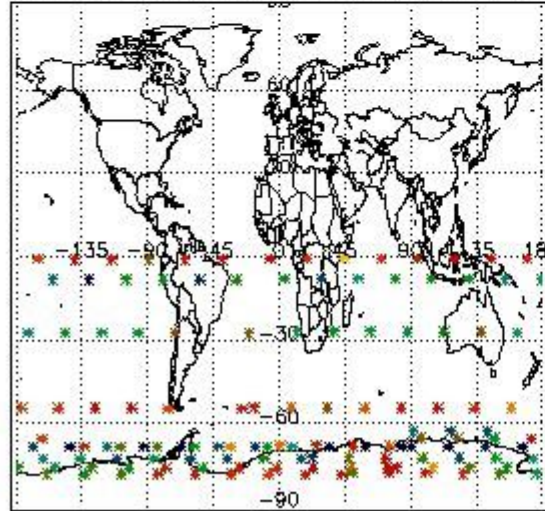
Percentage of flagged data per O3 profile



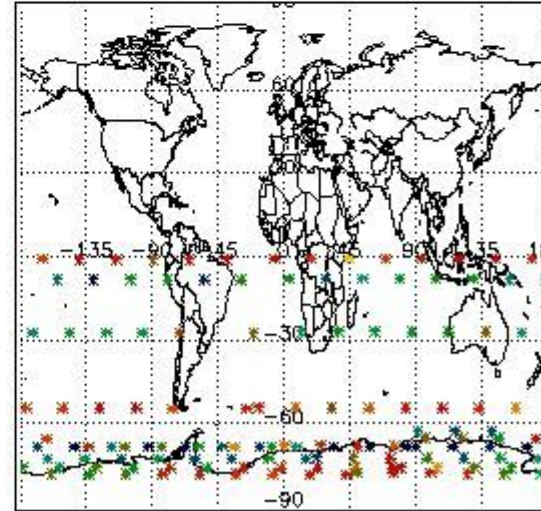
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

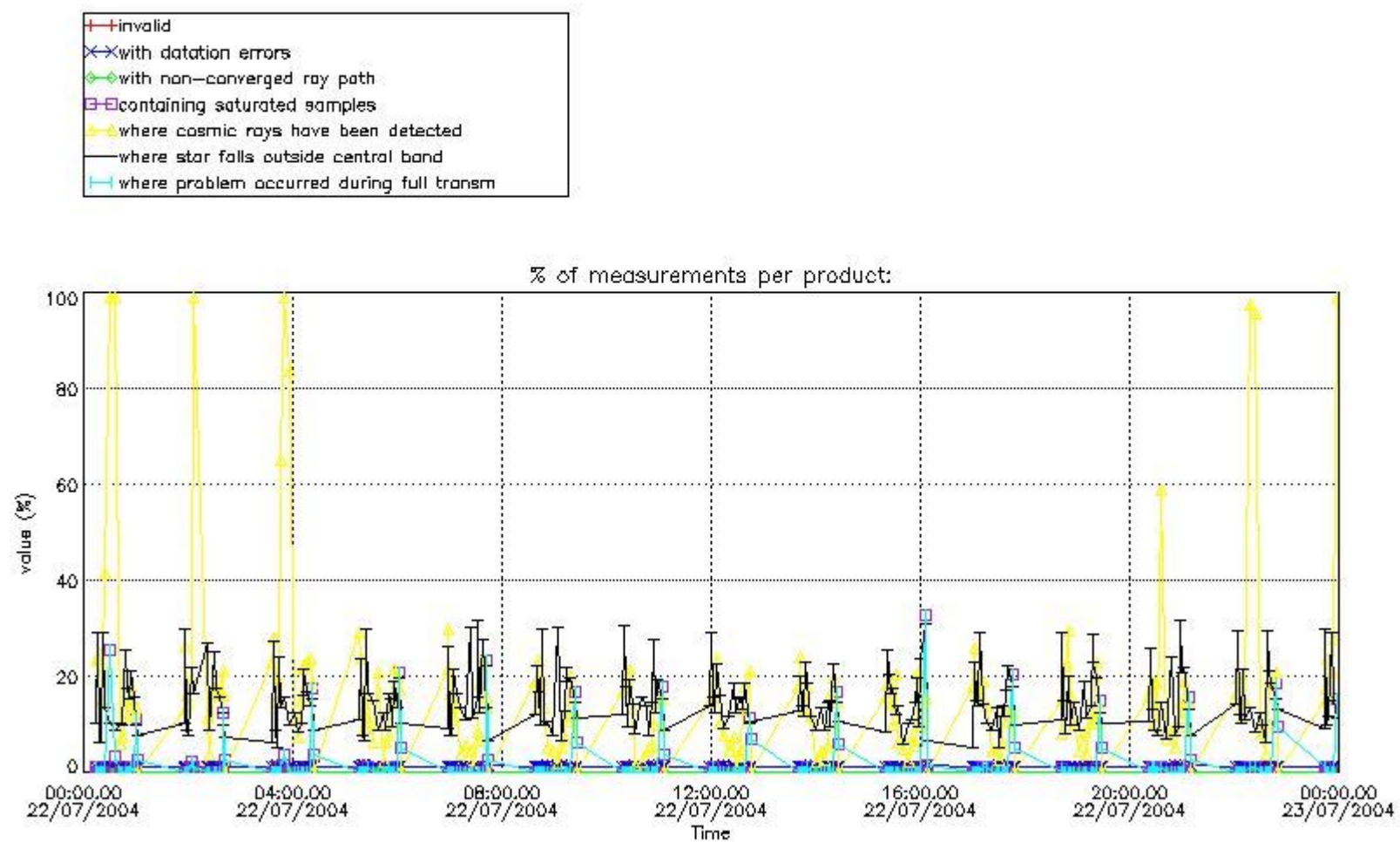


#### 4. Level 1 quality information per product

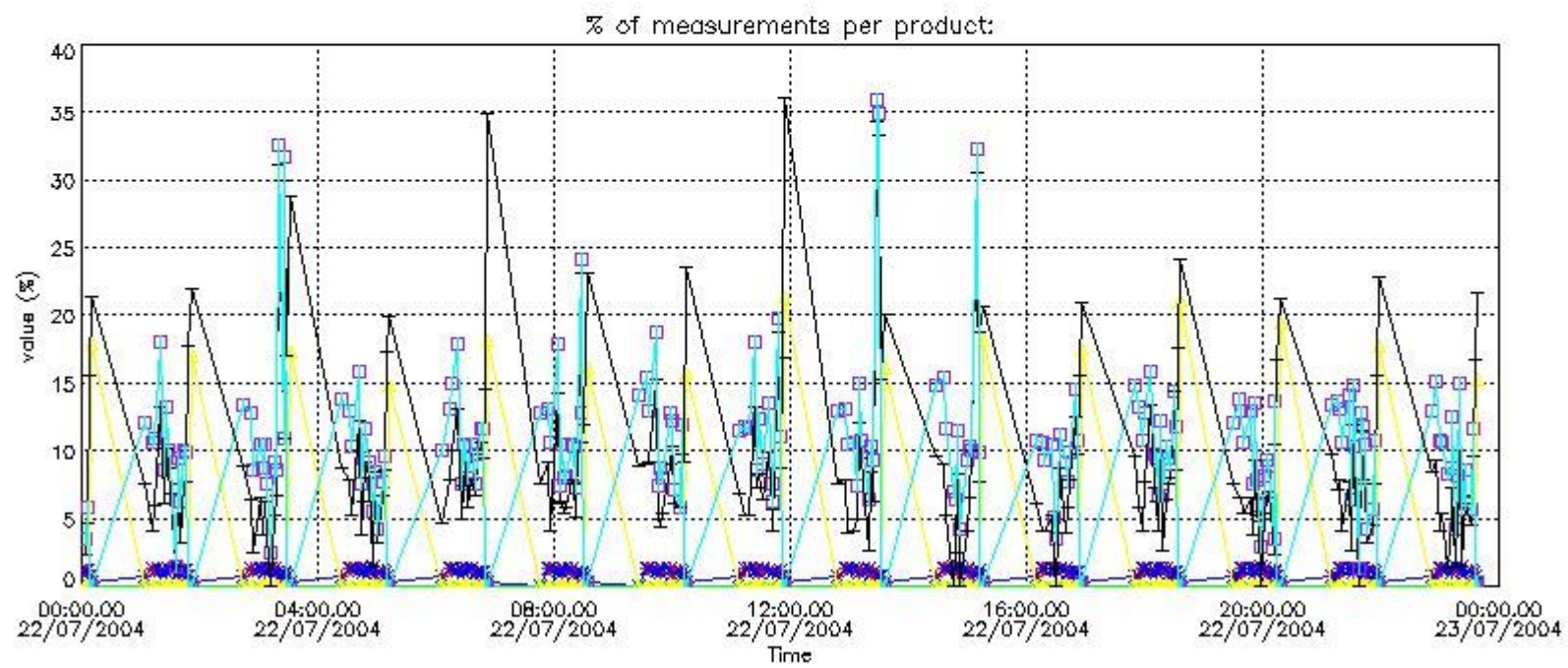
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



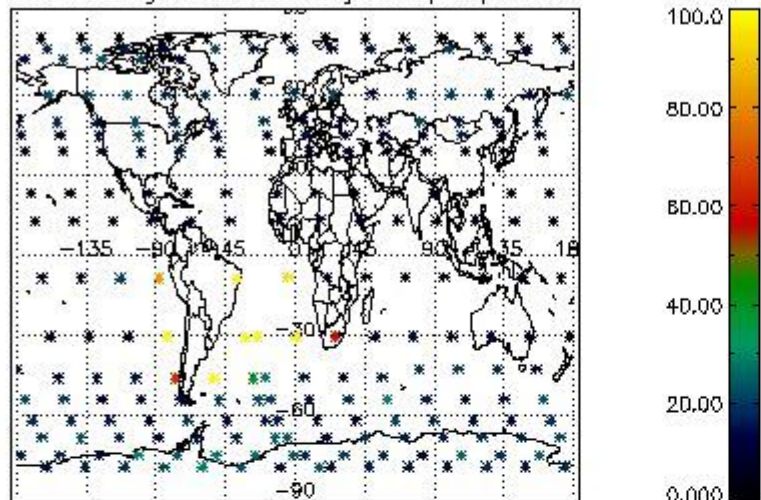
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



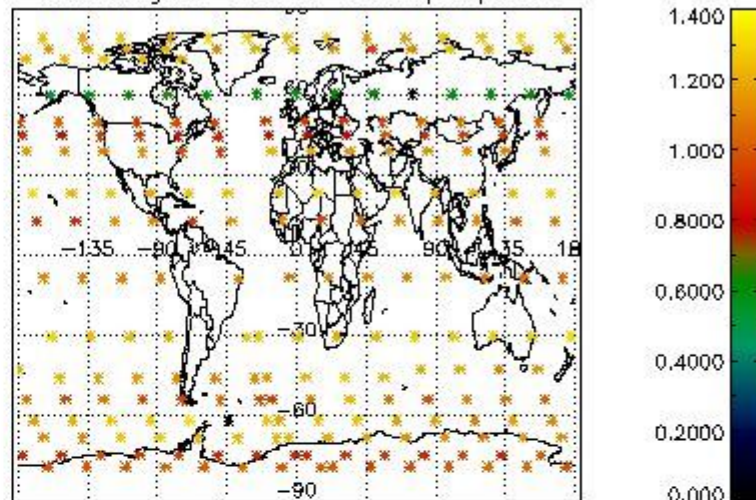
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

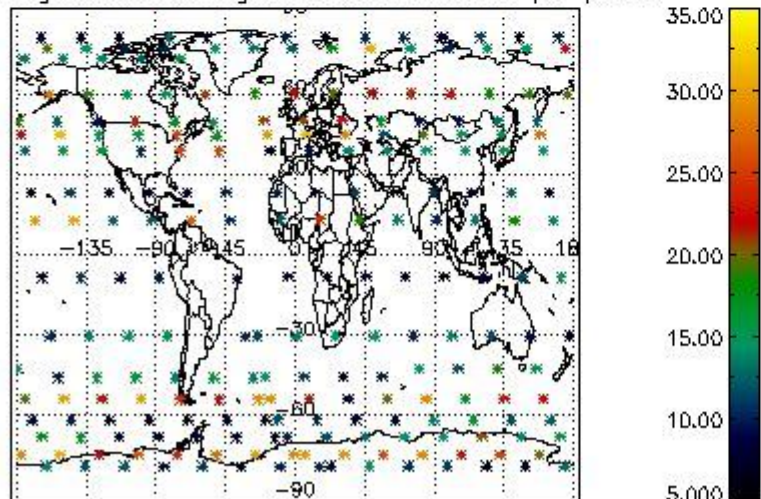
Percentage of cosmic ray hits per profile



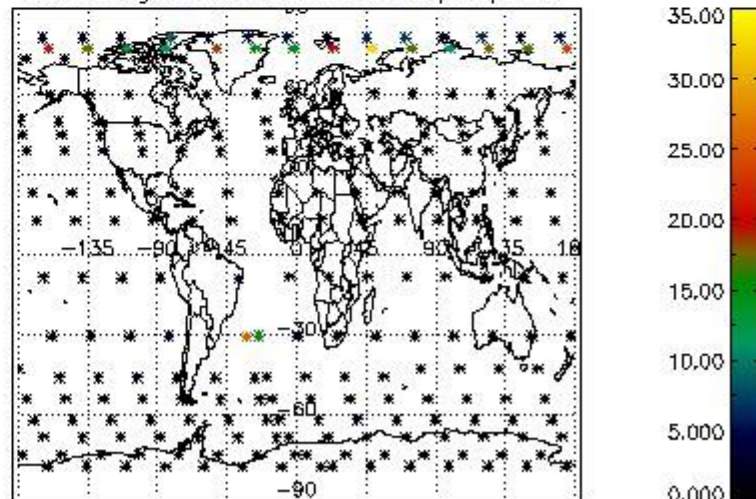
Percentage of datation errors per profile



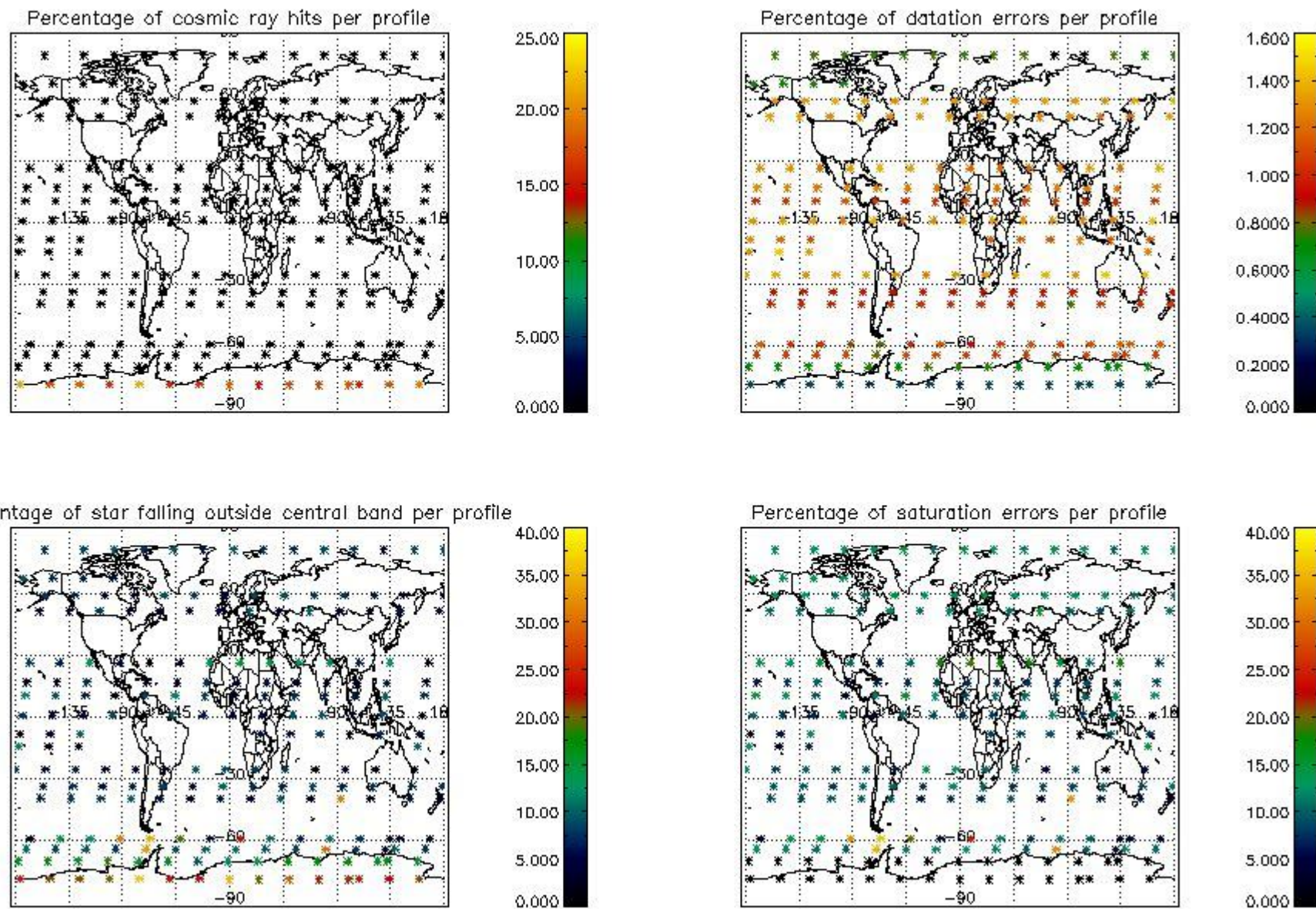
Percentage of star falling outside central band per profile



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

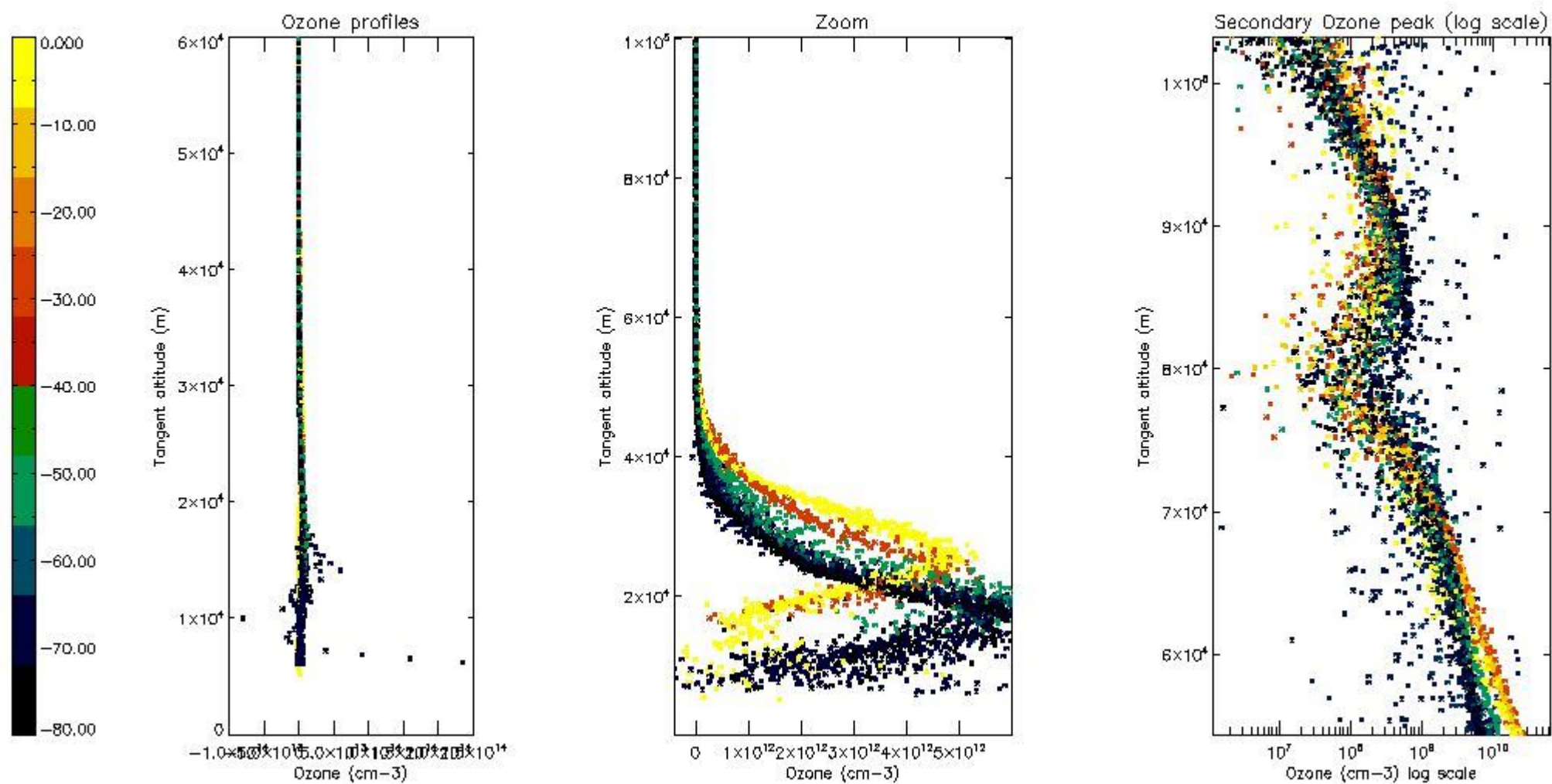
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	15

STD < 10	12
STD < 5	8

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

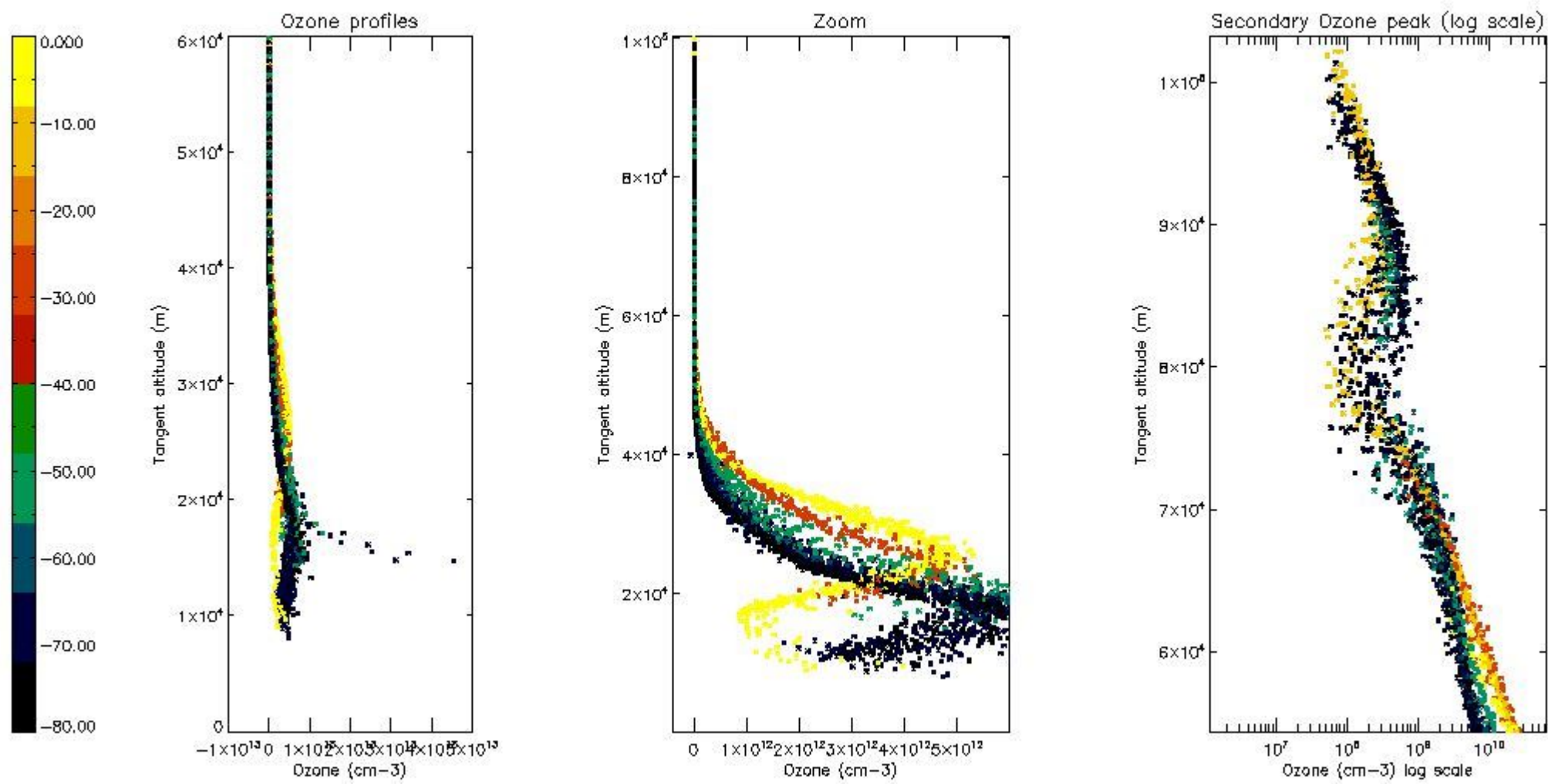
The colorbar represents the latitude.



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

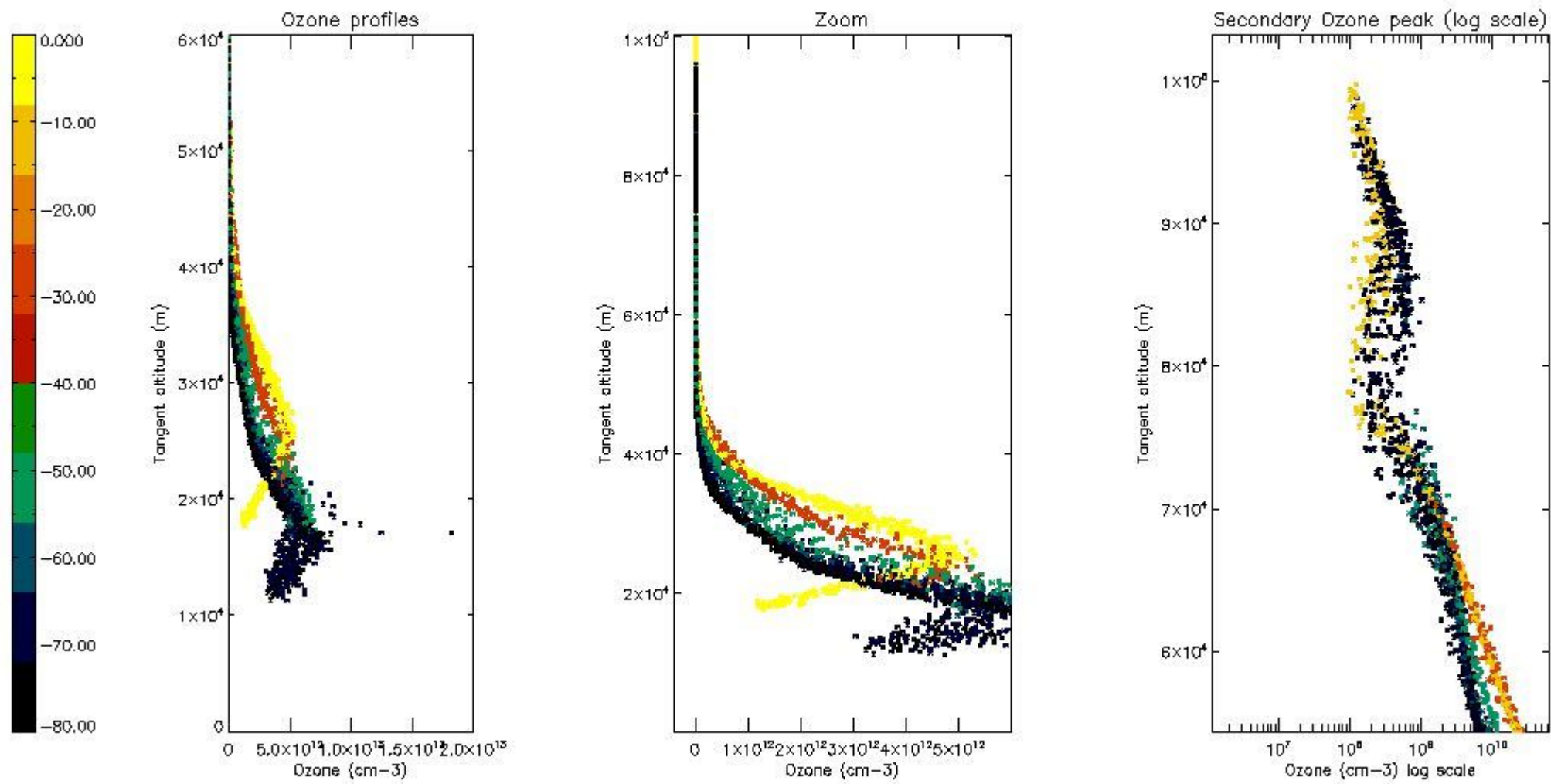
The colorbar represents the latitude.





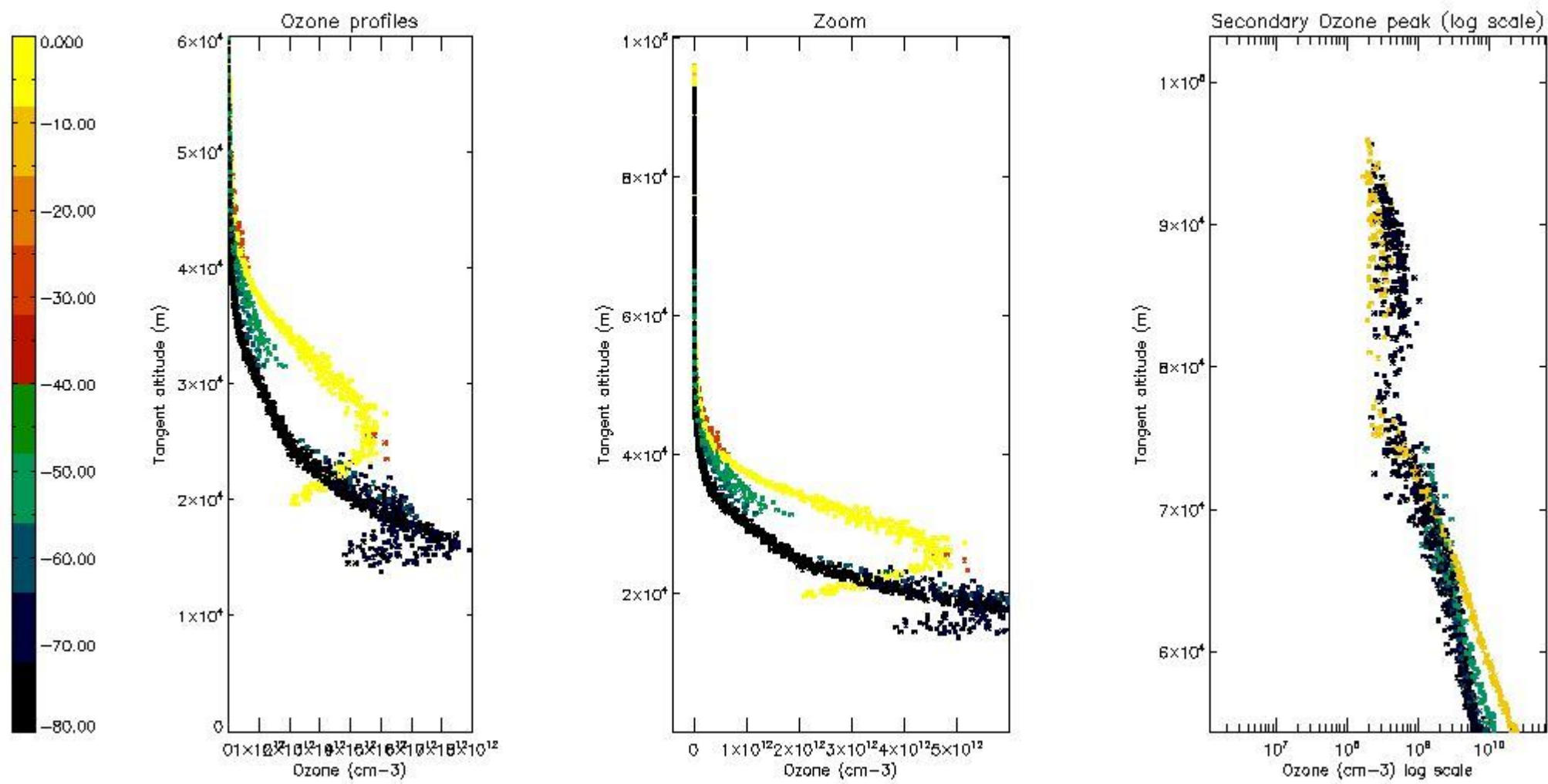
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



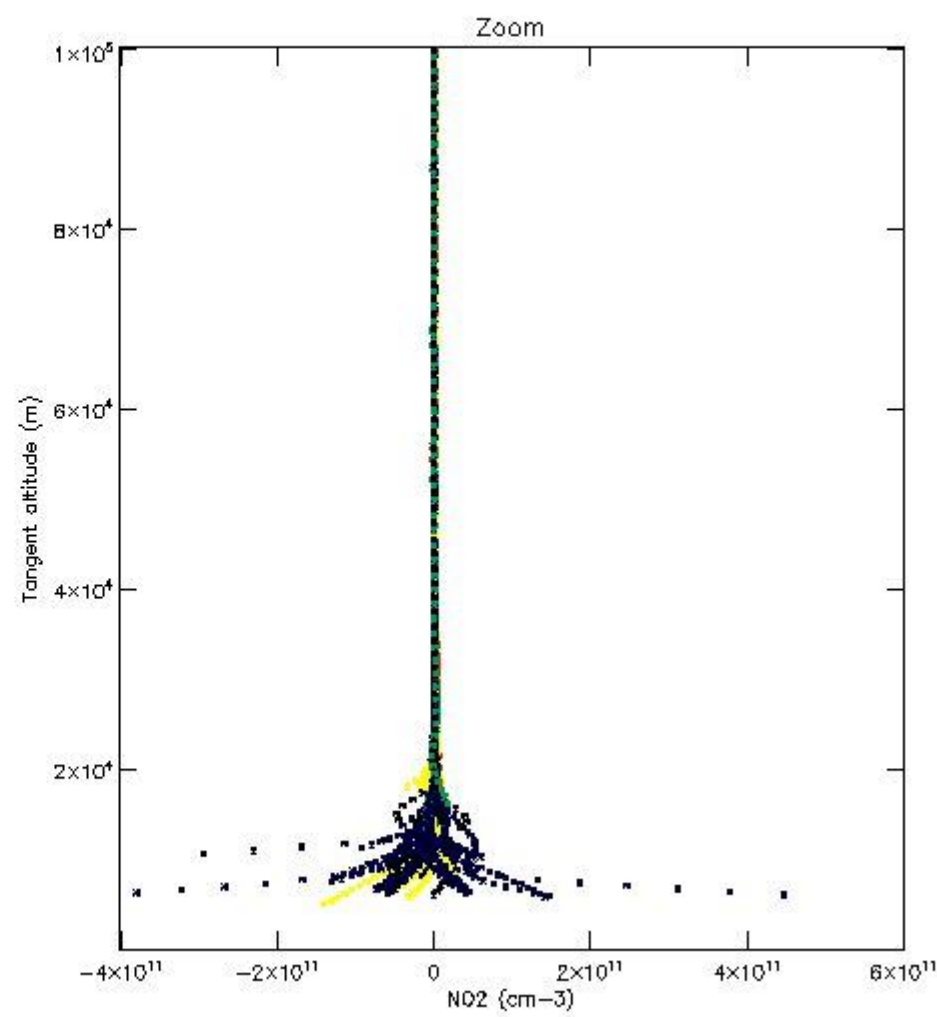
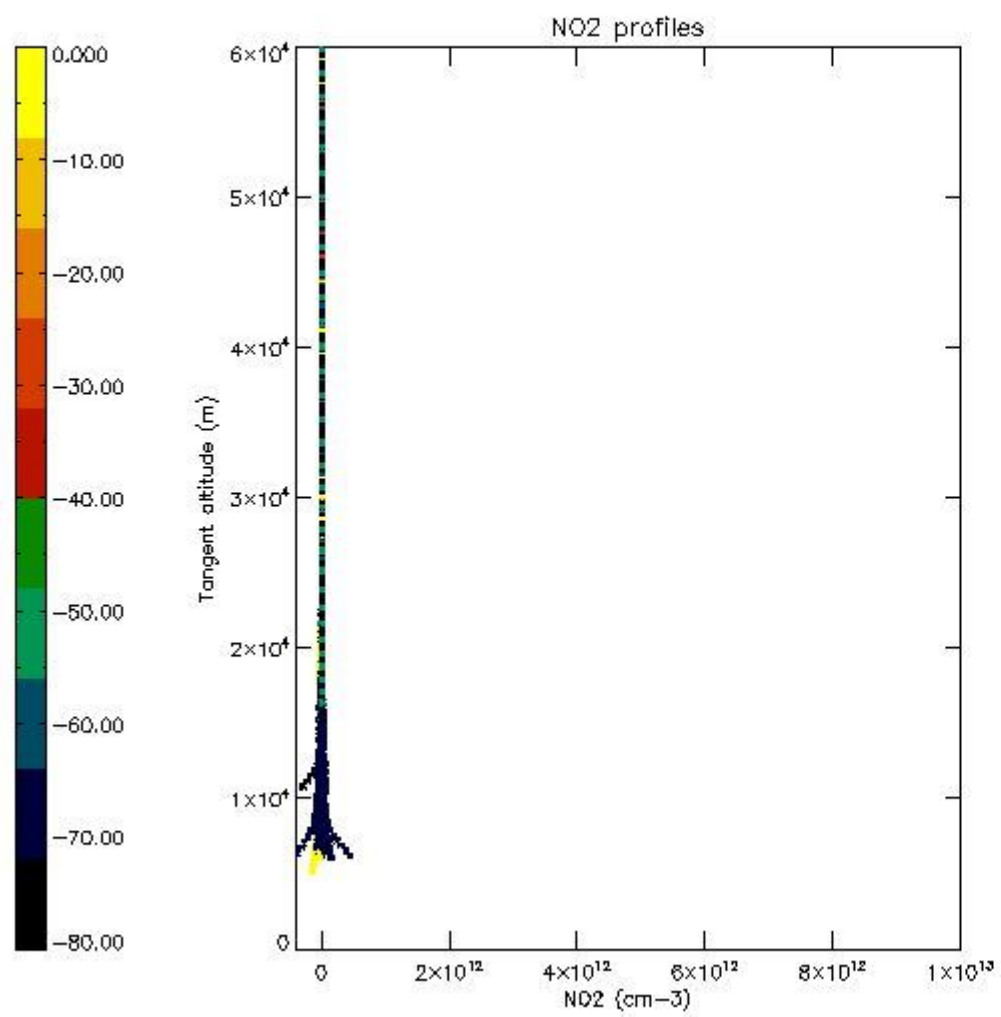
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



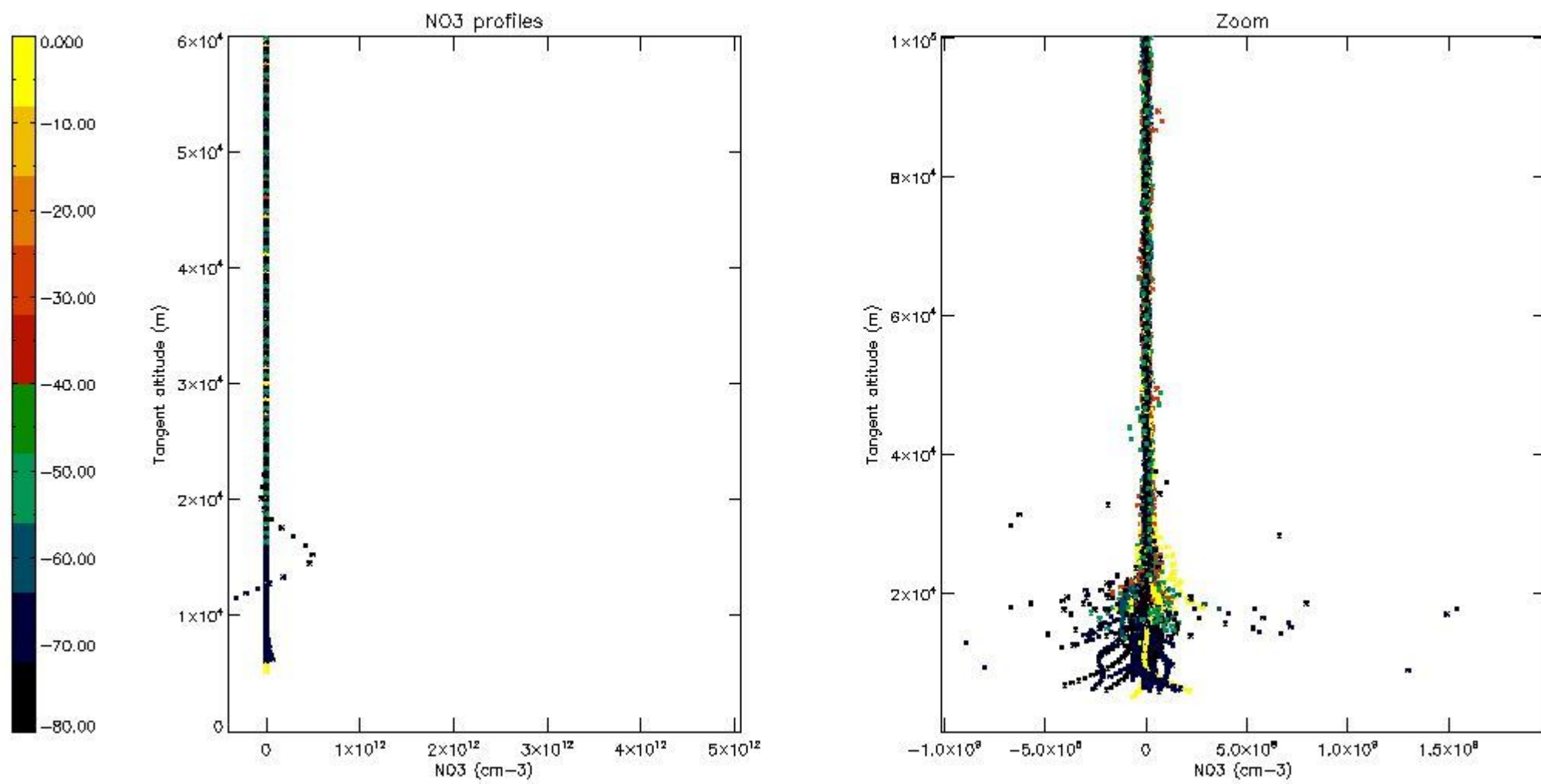
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



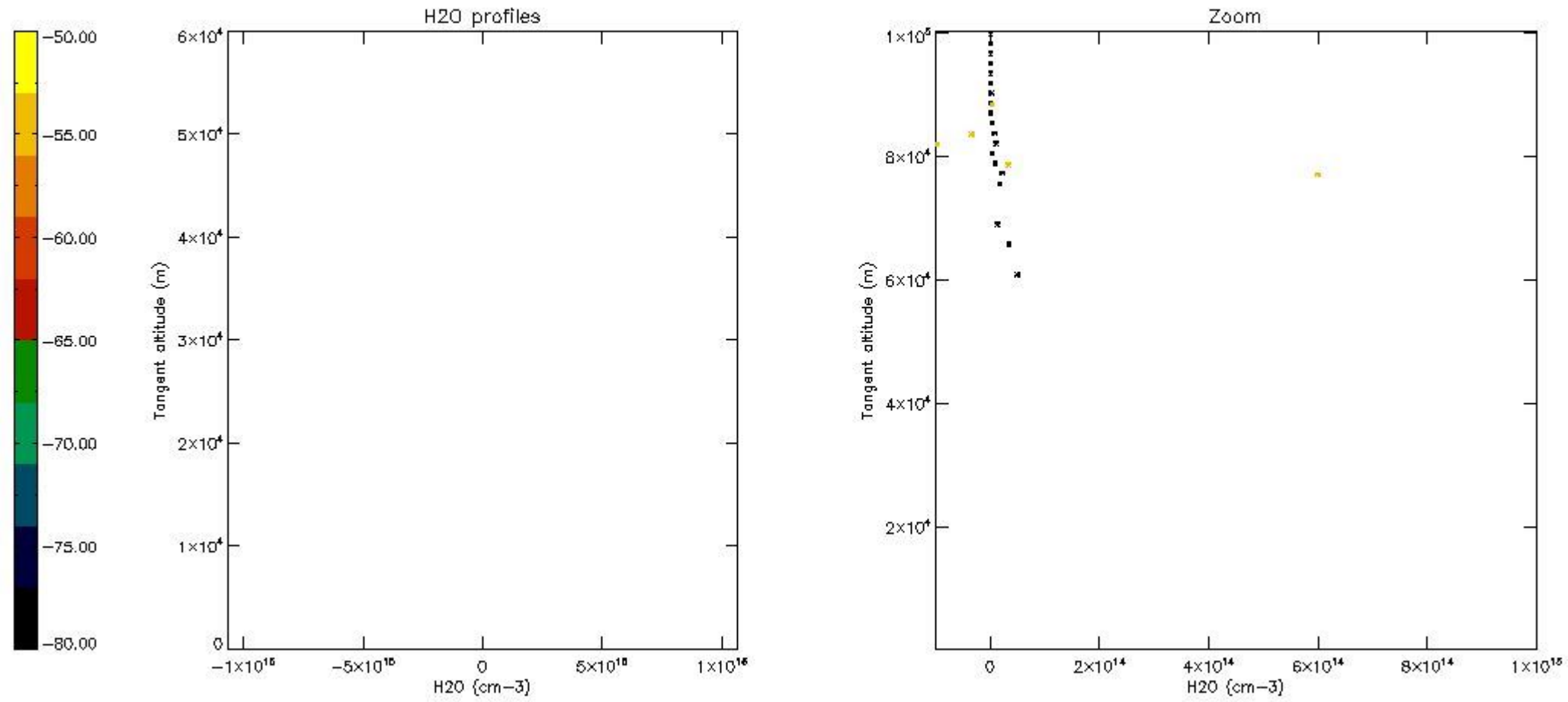
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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	22-JUL-2004 00:04:13
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-JUL-2004 00:04:13
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-JUL-2004 00:04:13

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## SUMMARY

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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](#)













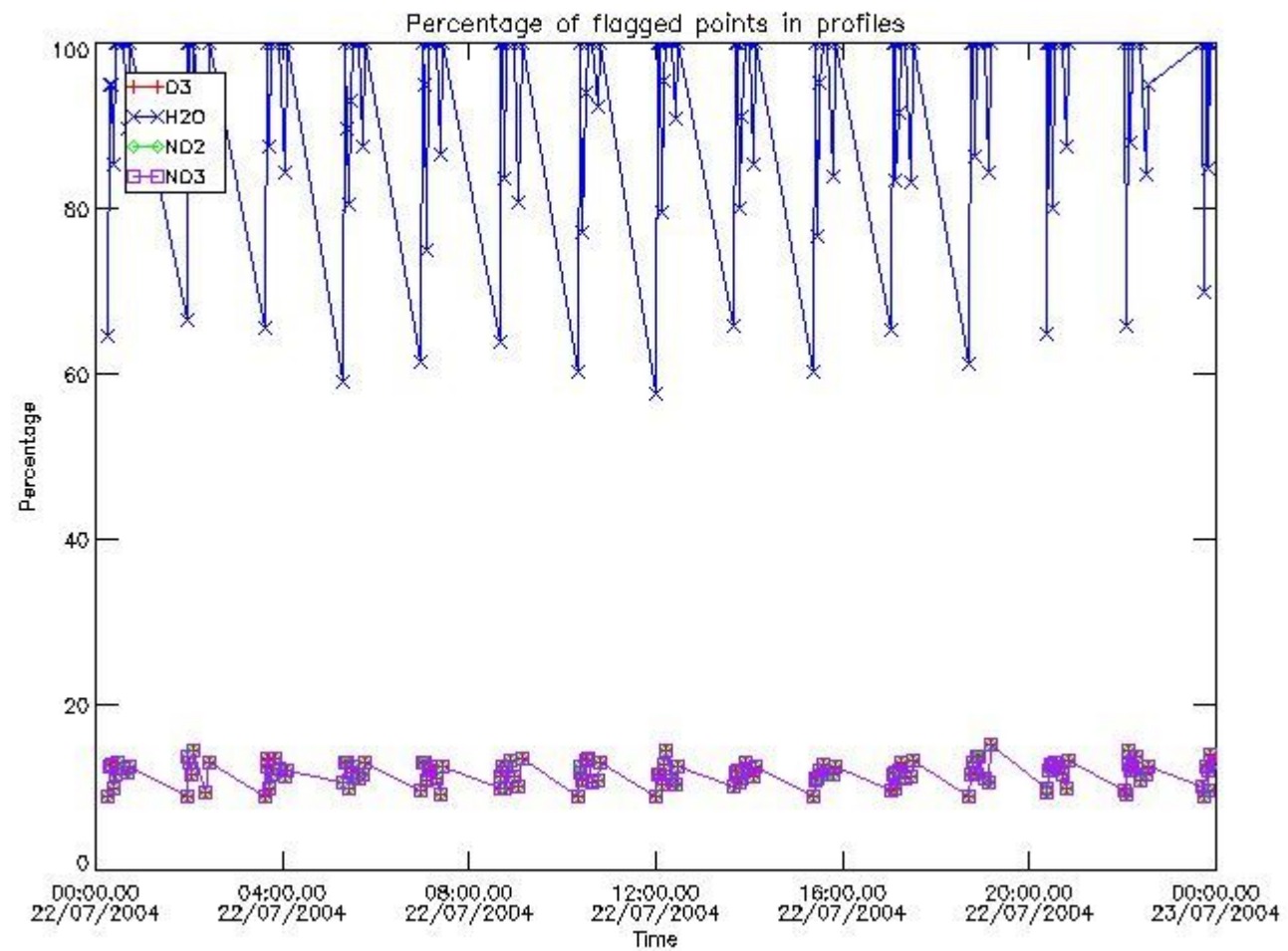






In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

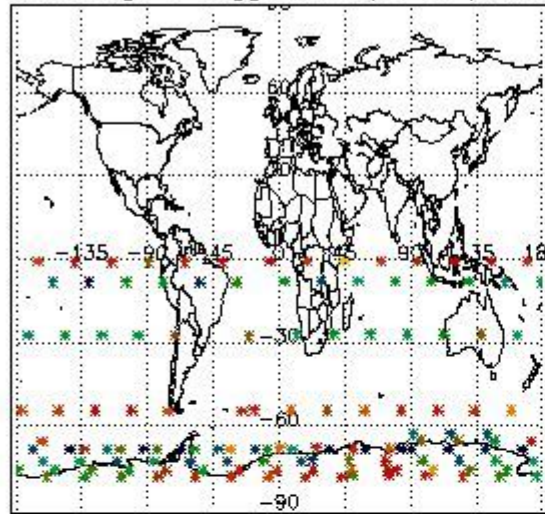
### 3.1 Plot quality information per product (time dependant)



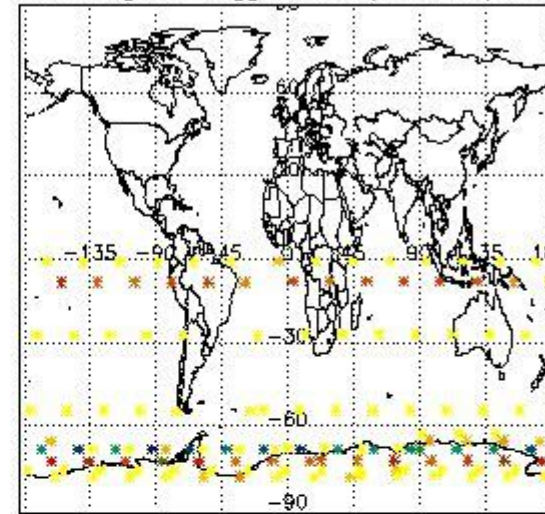
### 3.2 Plot quality information per product (world map)



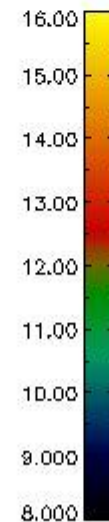
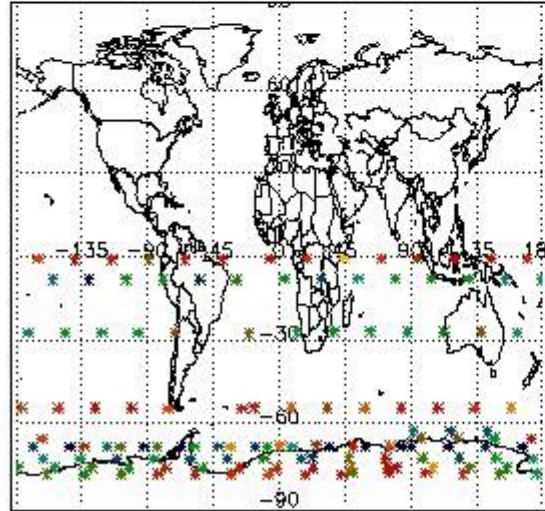
Percentage of flagged data per O3 profile



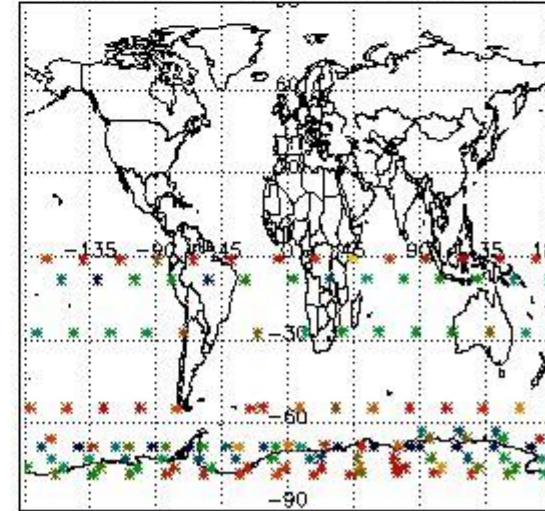
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

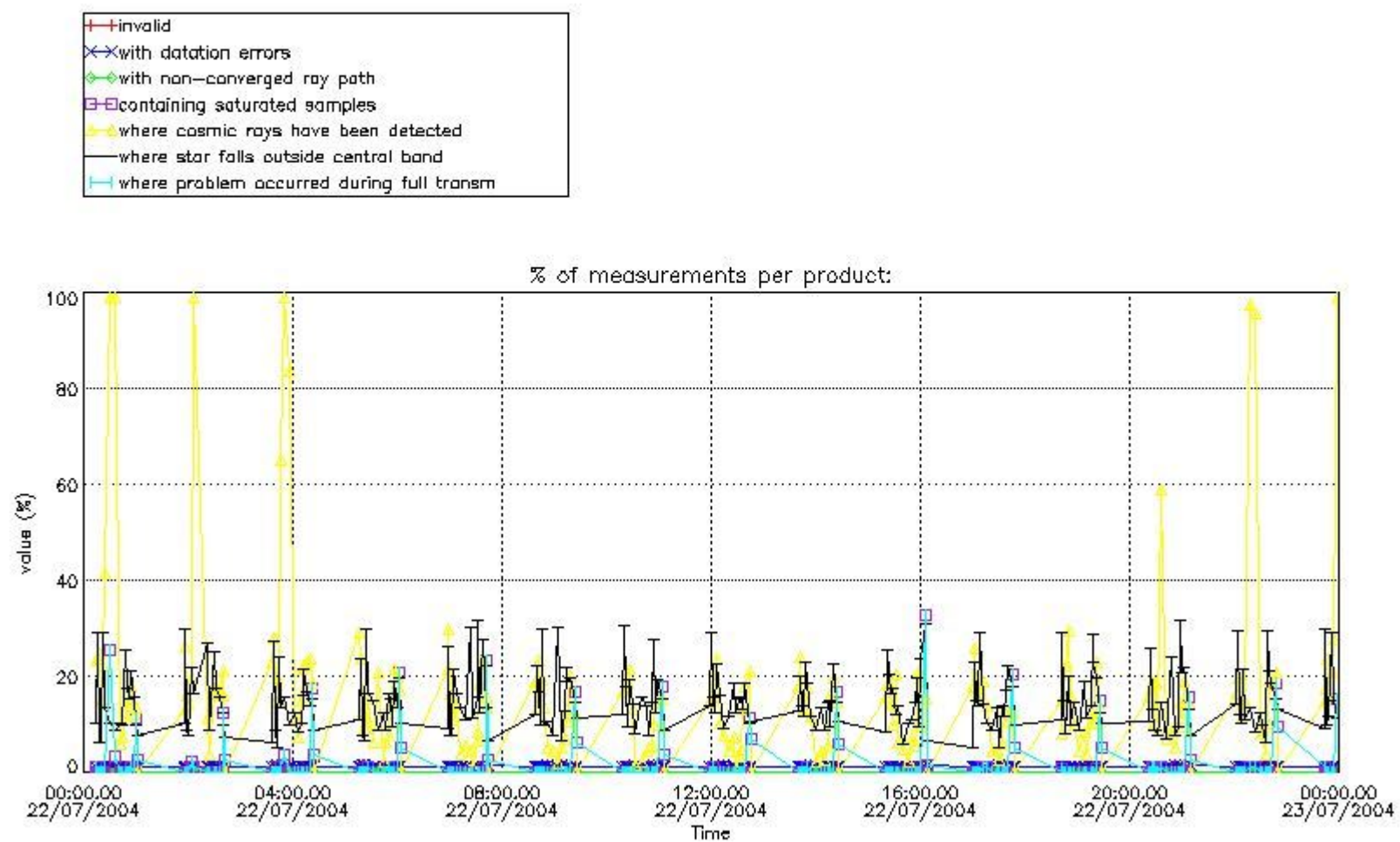


#### 4. Level 1 quality information per product

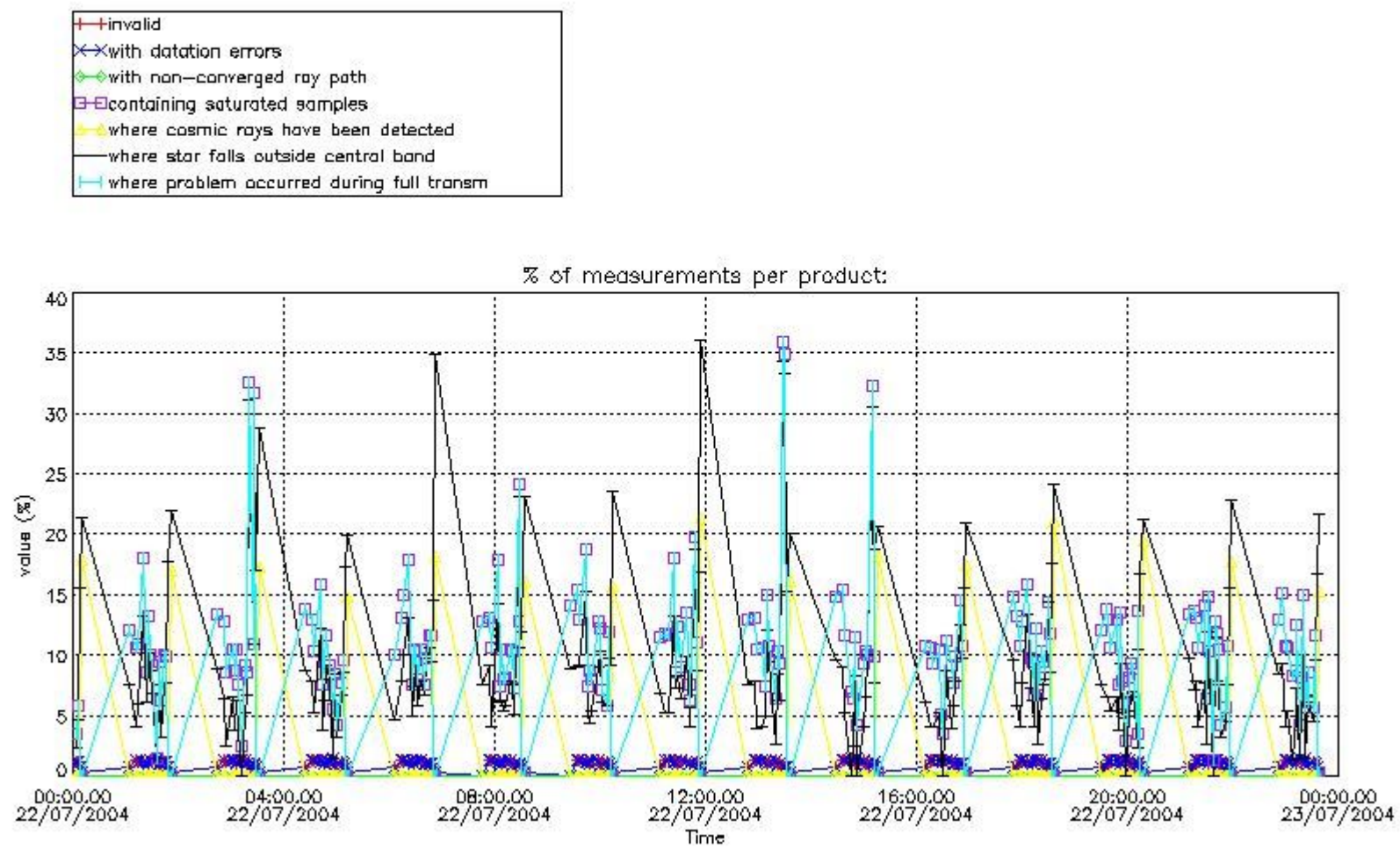
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

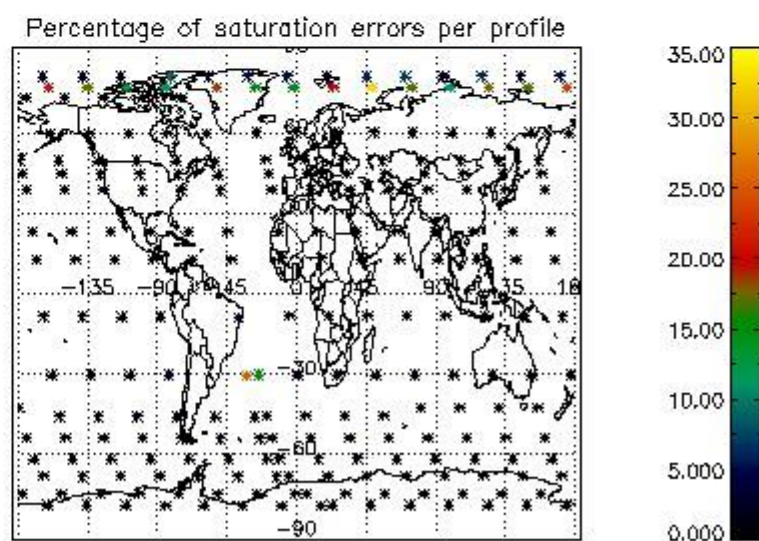
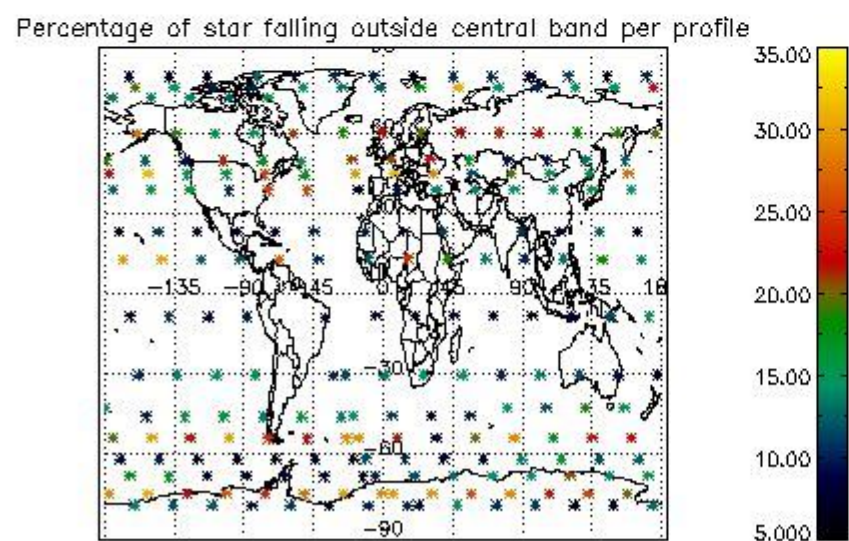
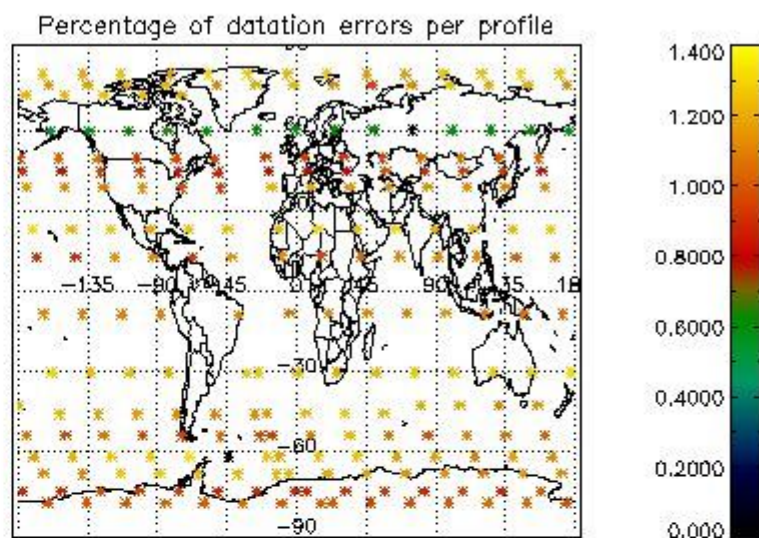
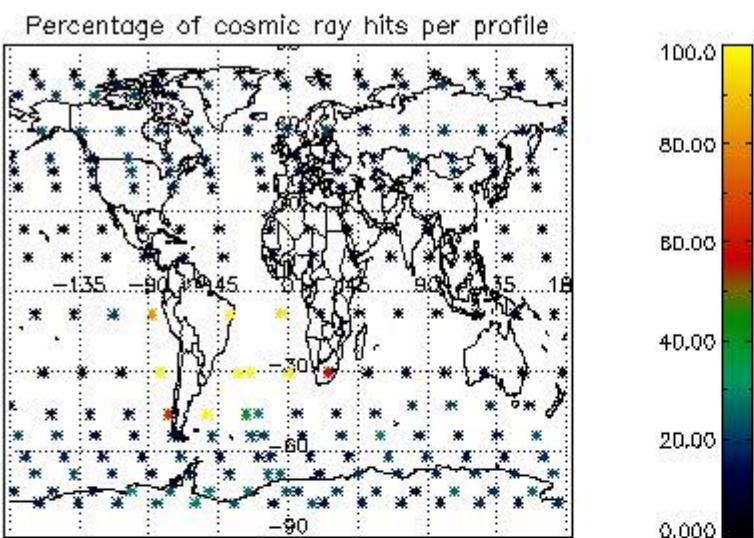


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

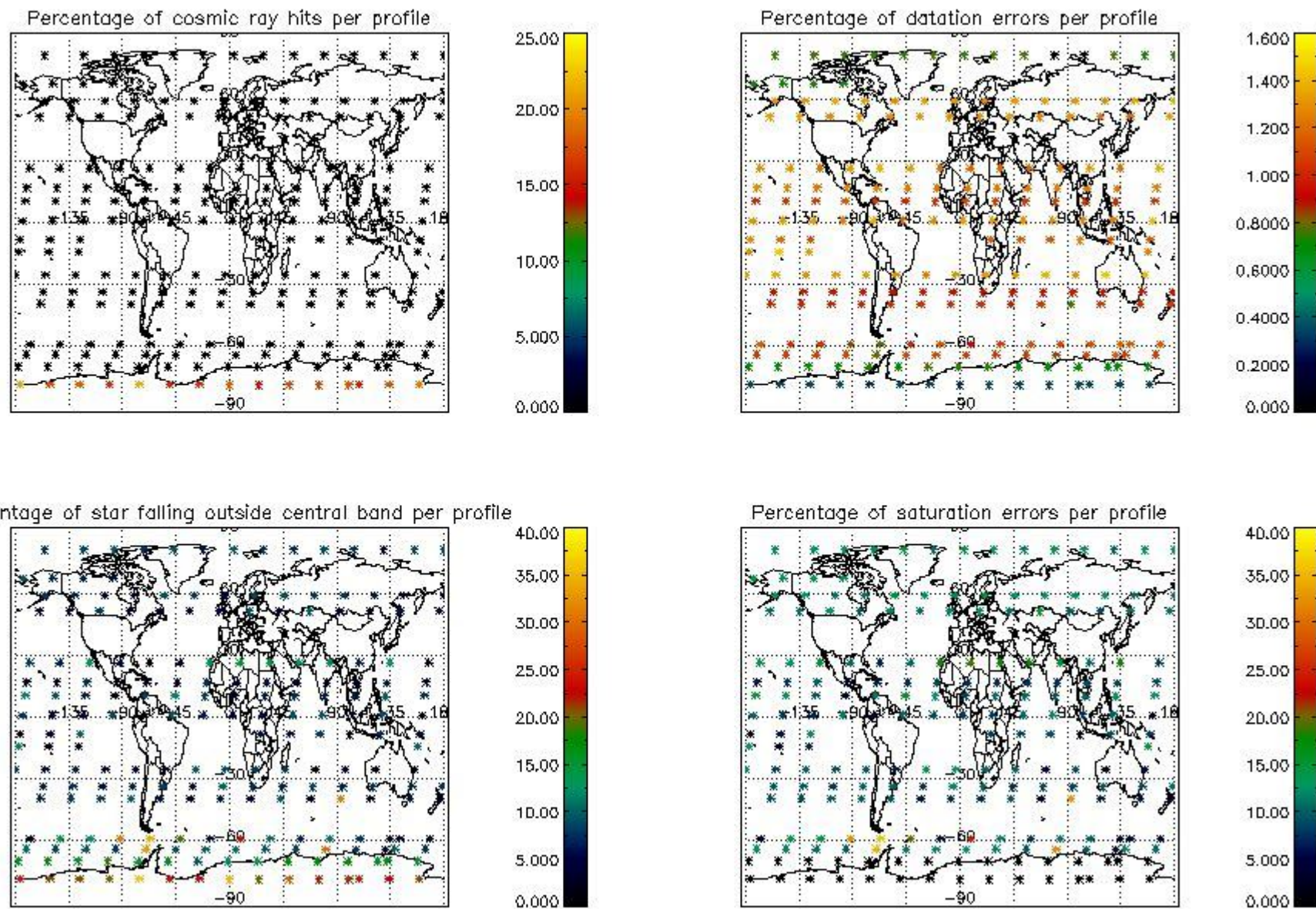


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

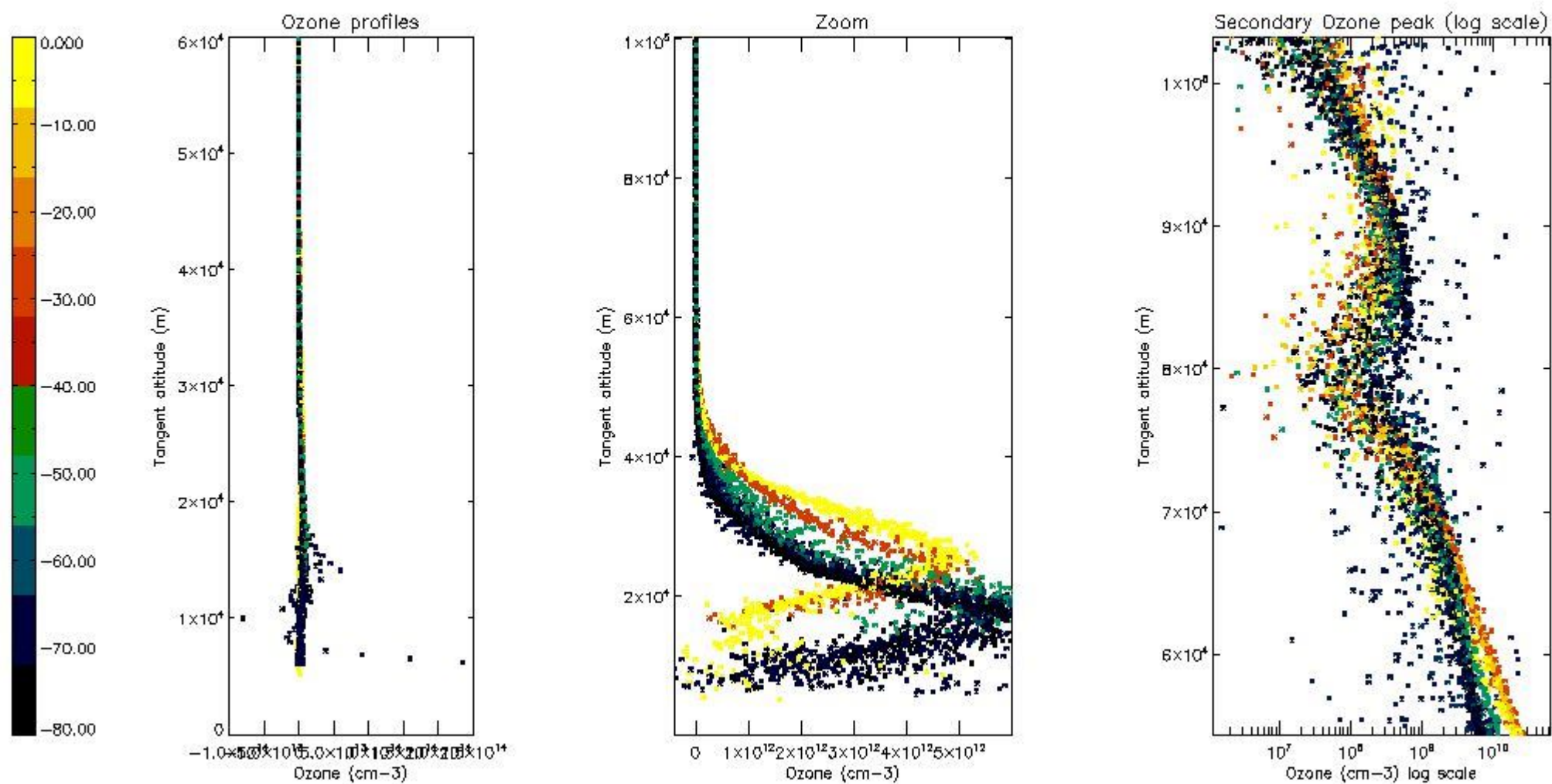
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	26
STD < 20	15

STD < 10	12
STD < 5	8

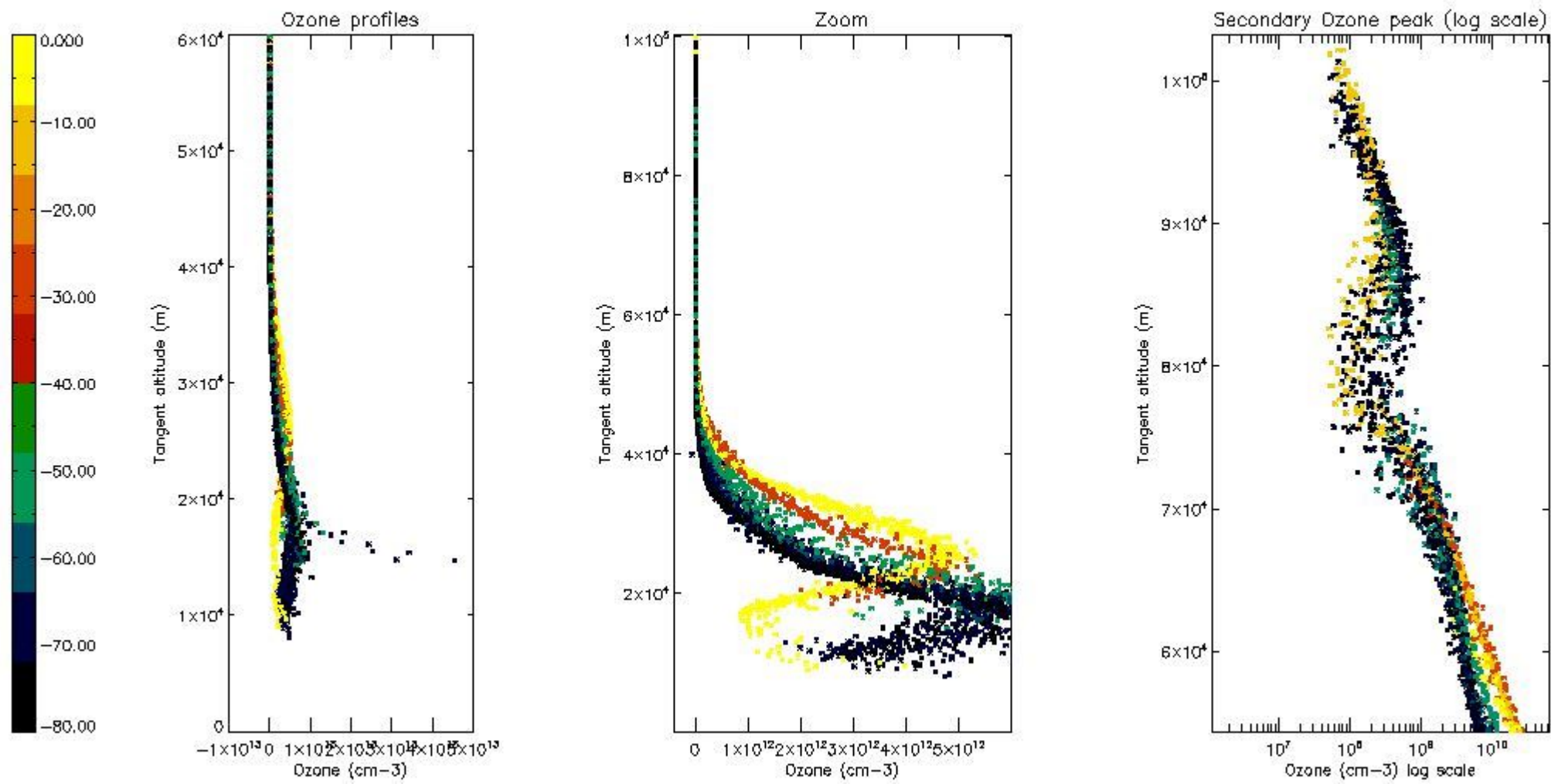
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



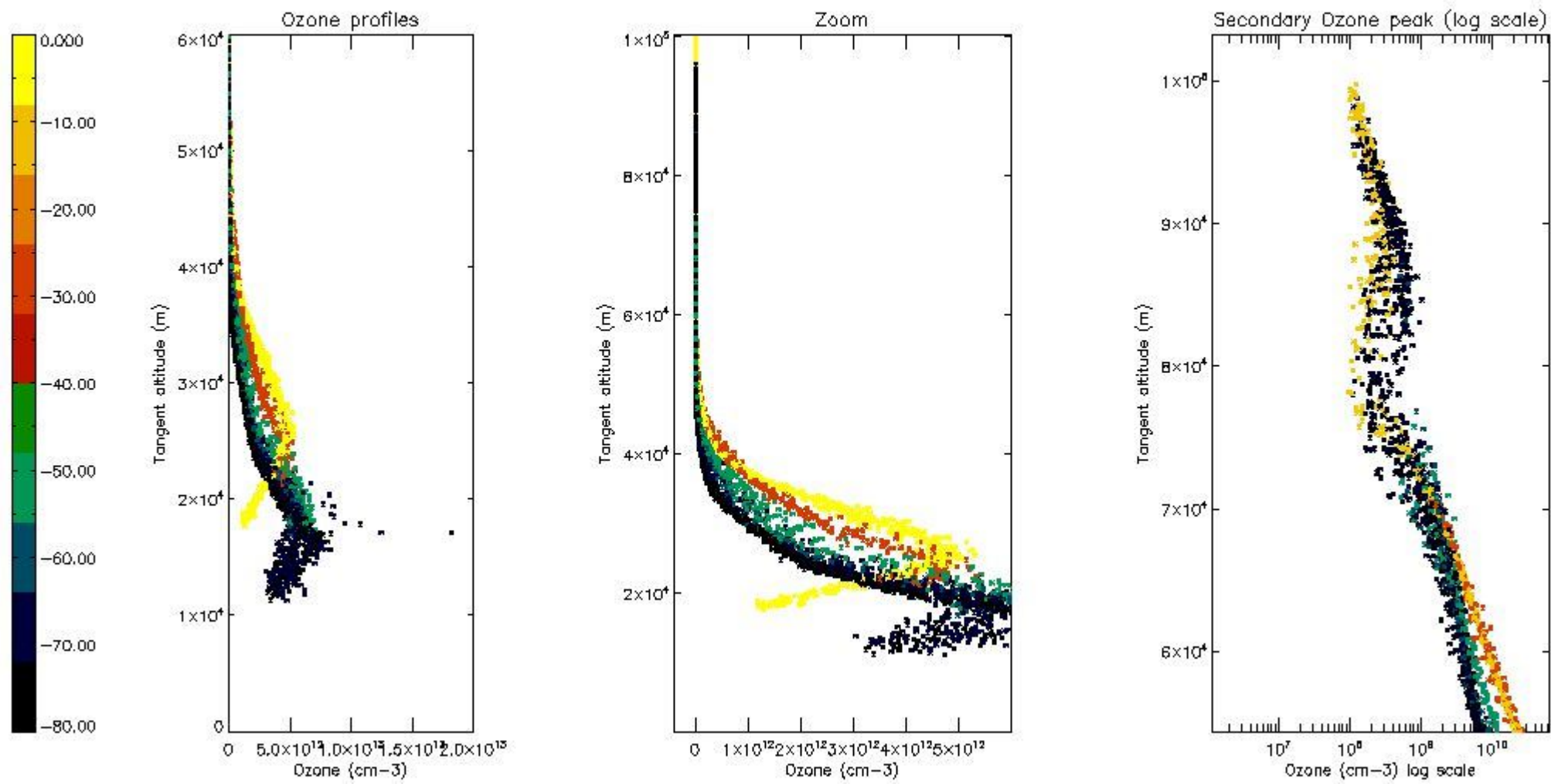
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

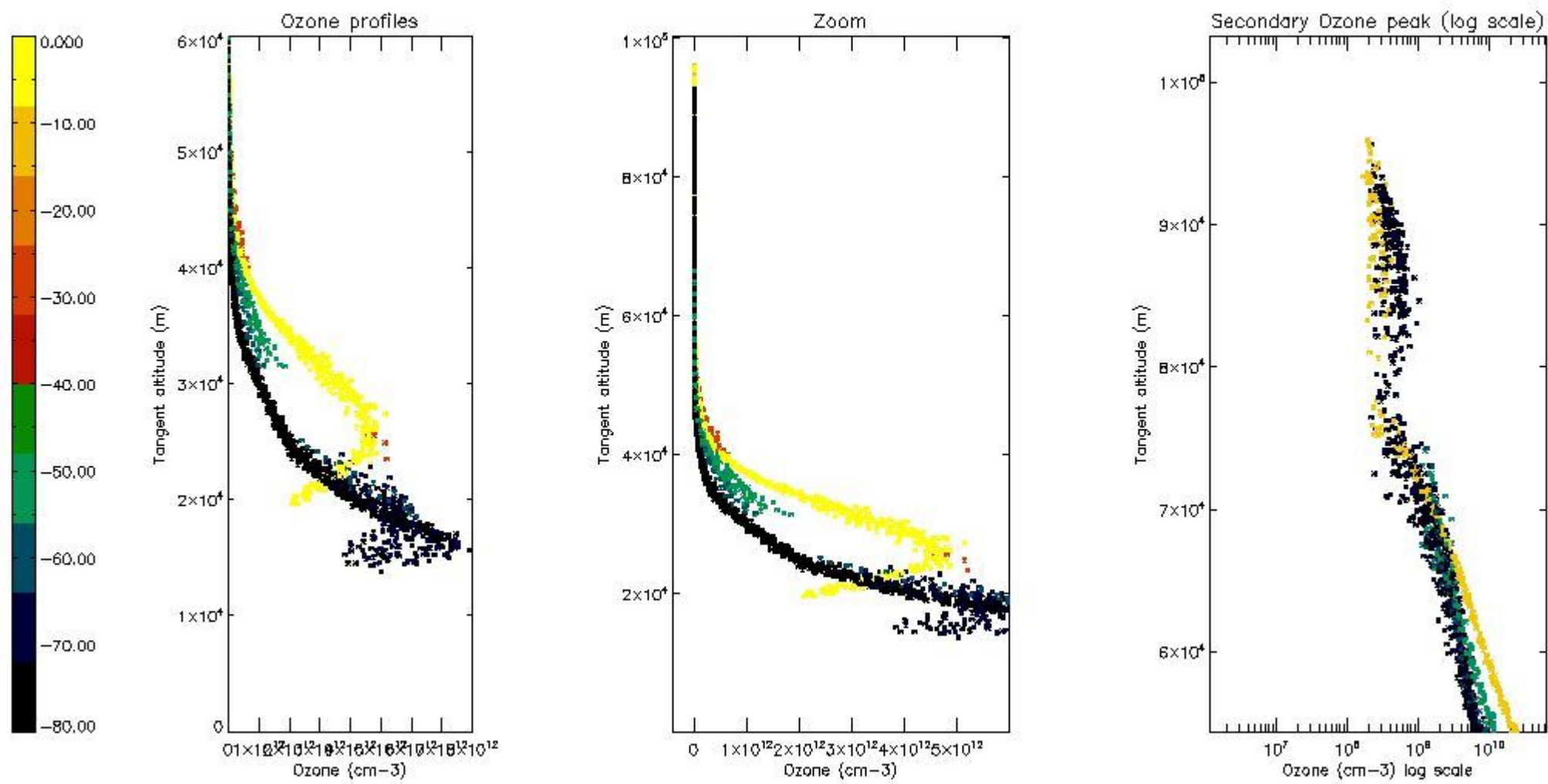
The colorbar represents the latitude.



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

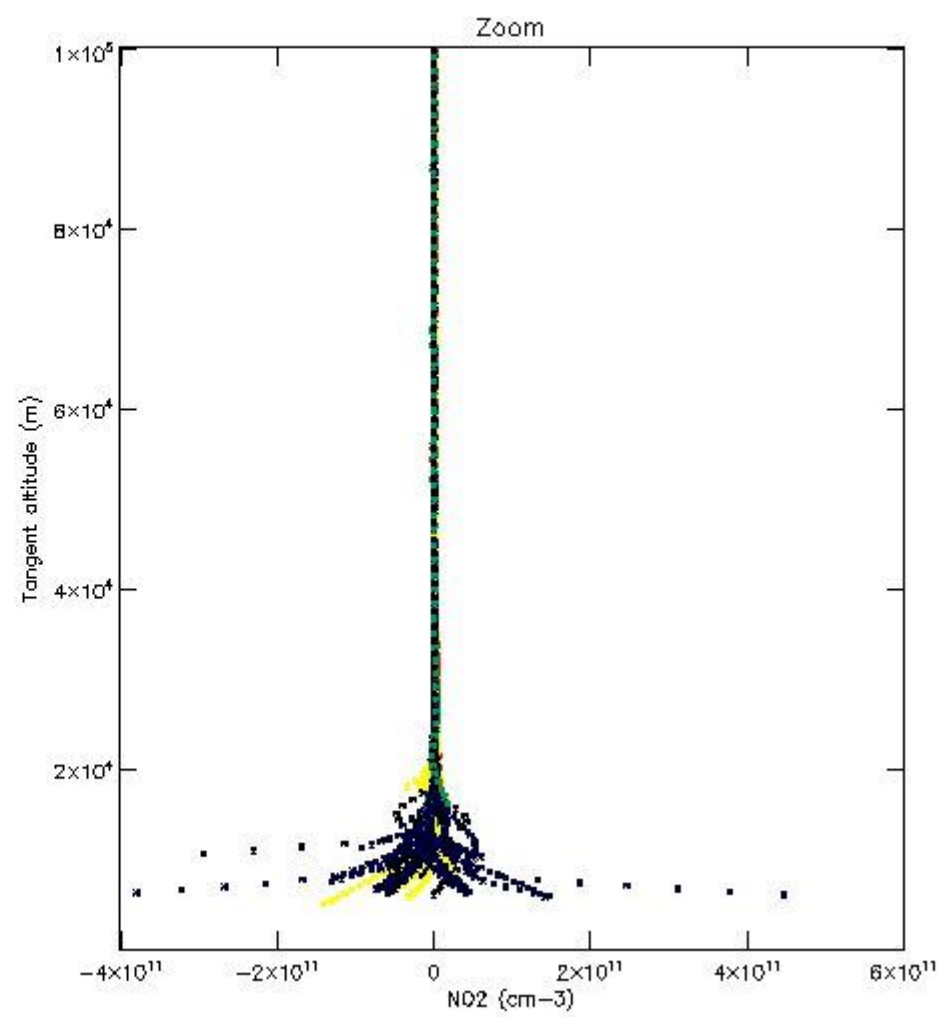
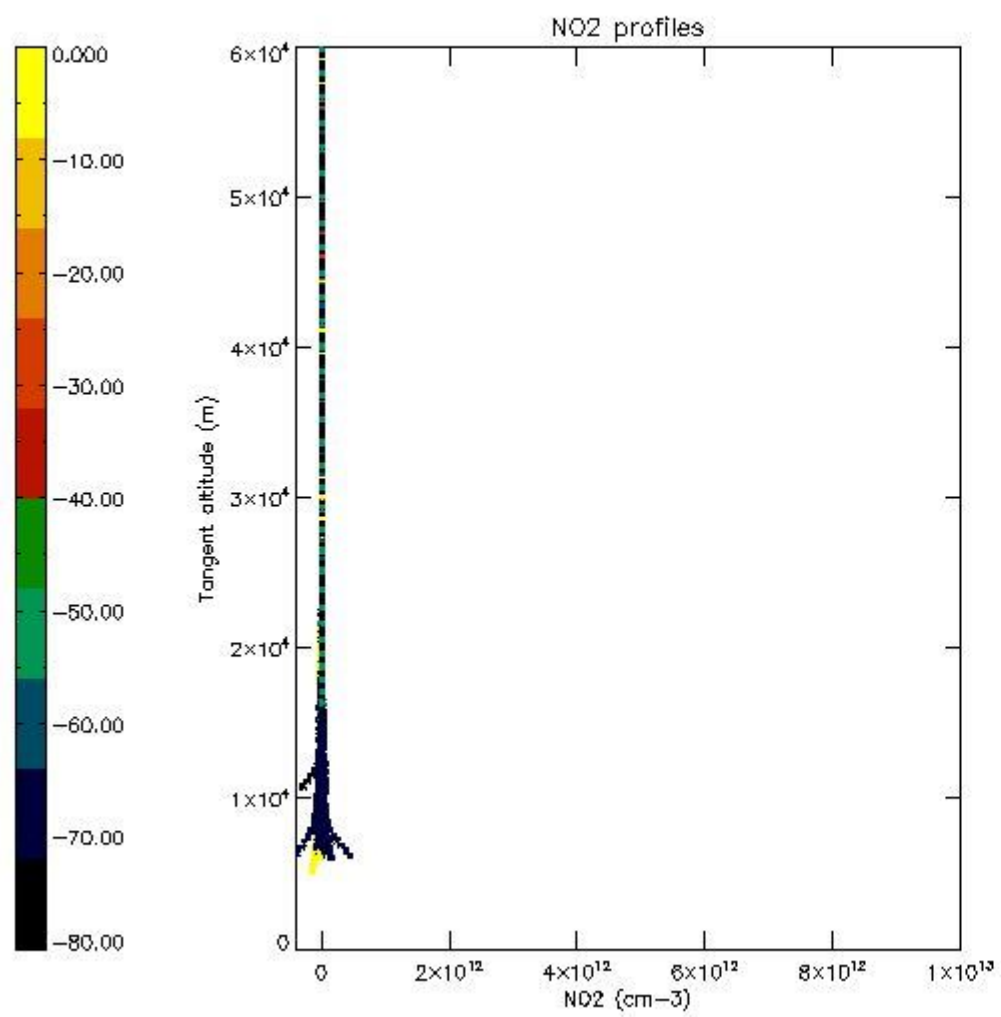
The colorbar represents the latitude.





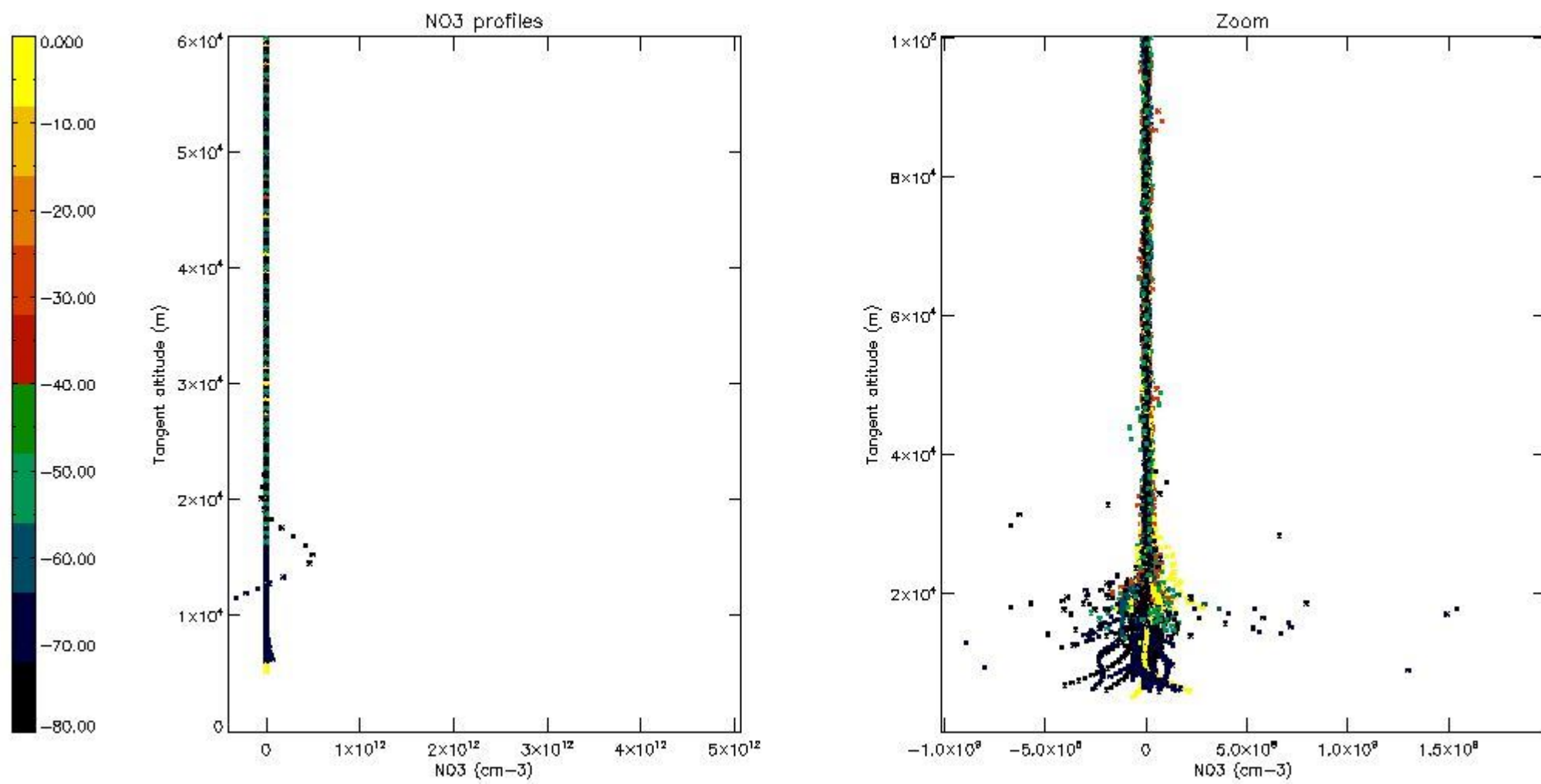
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



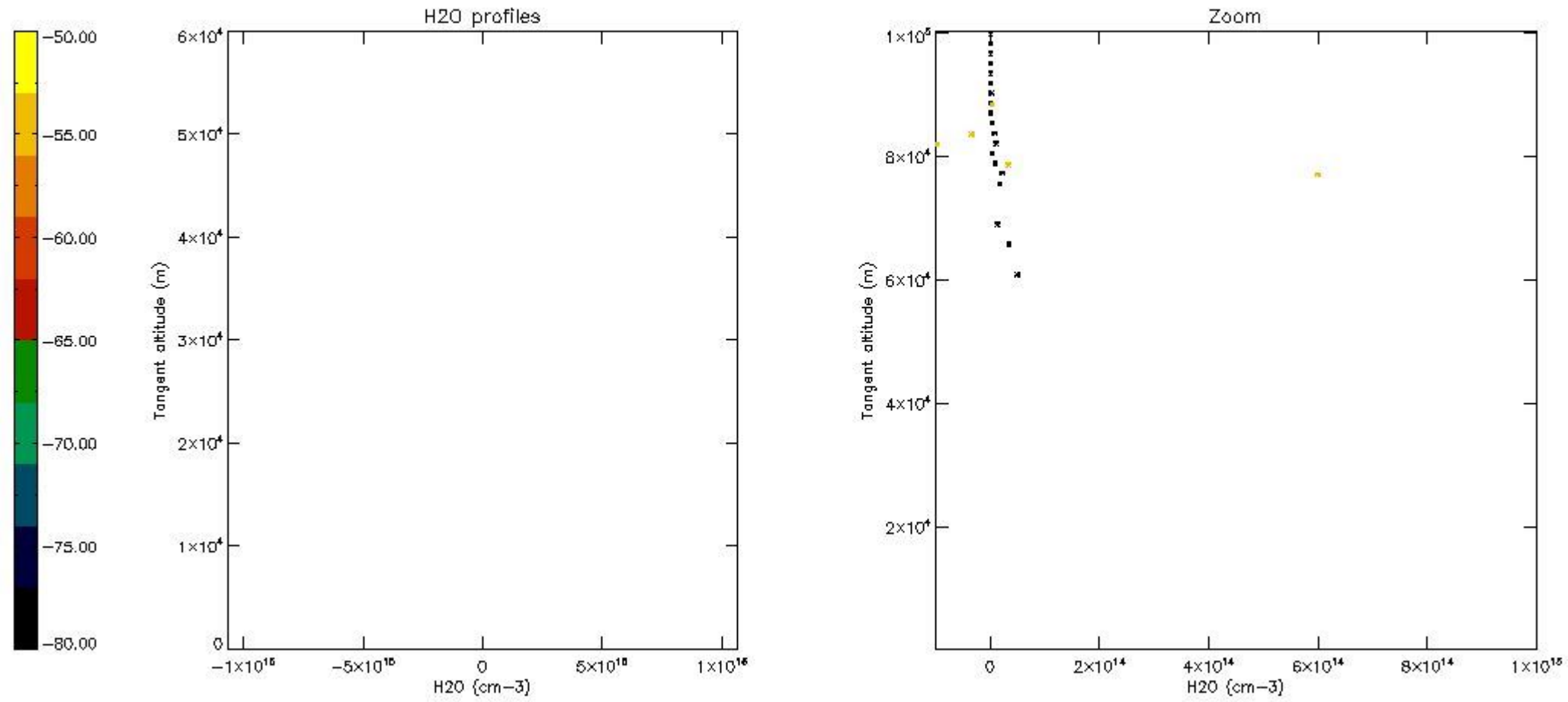
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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)

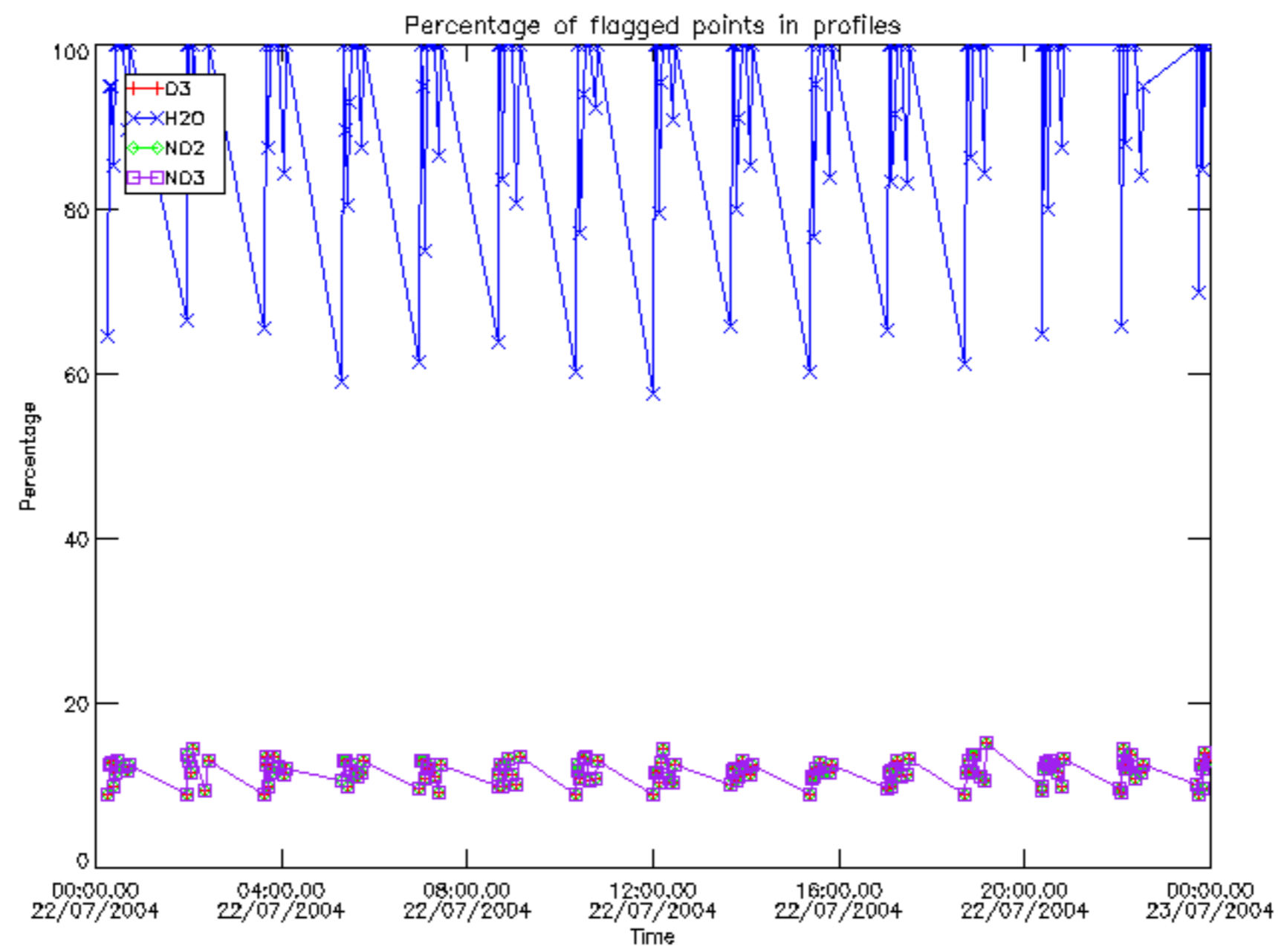
The colorbar represents the latitude.



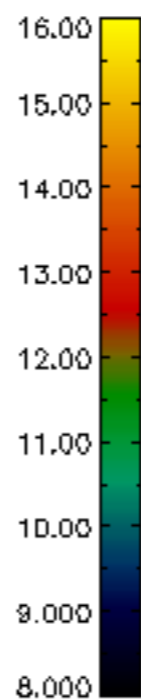
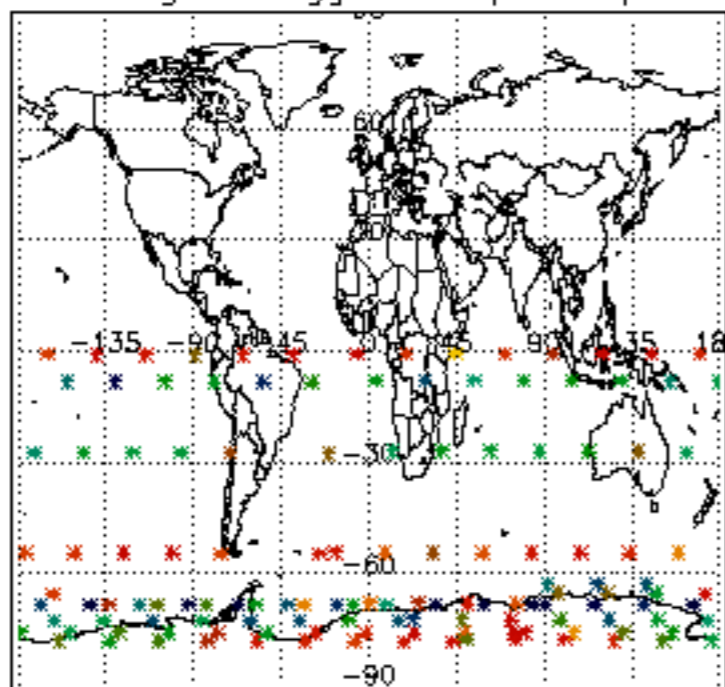
## 6. Auxiliary Data Files used for the production reported in section 2

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.

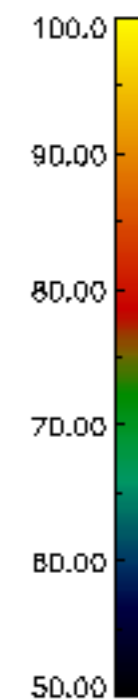
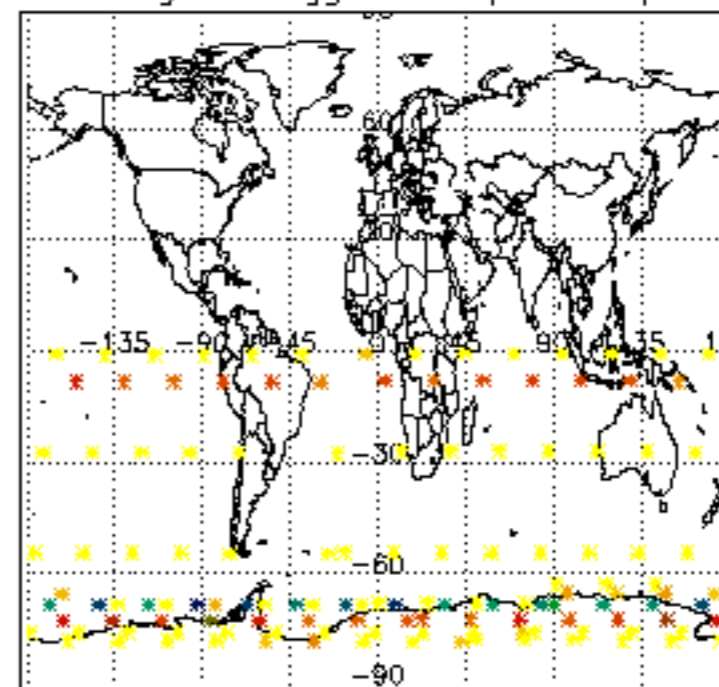
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-JUL-2004 00:04:13
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-JUL-2004 00:04:13
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-JUL-2004 00:04:13



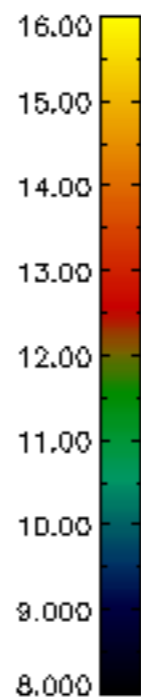
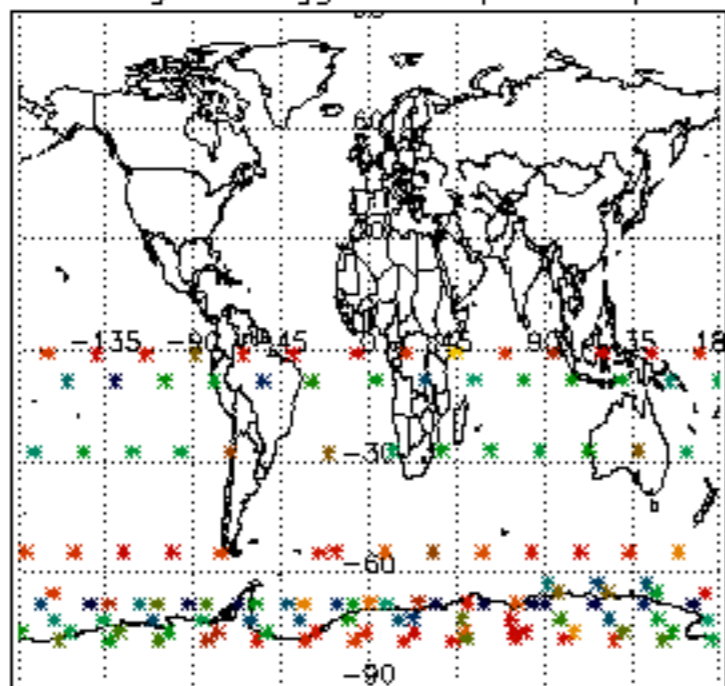
Percentage of flagged data per D3 profile



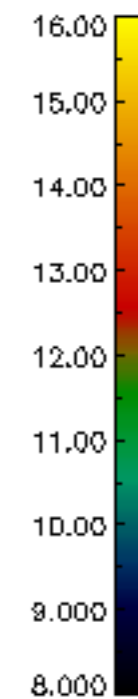
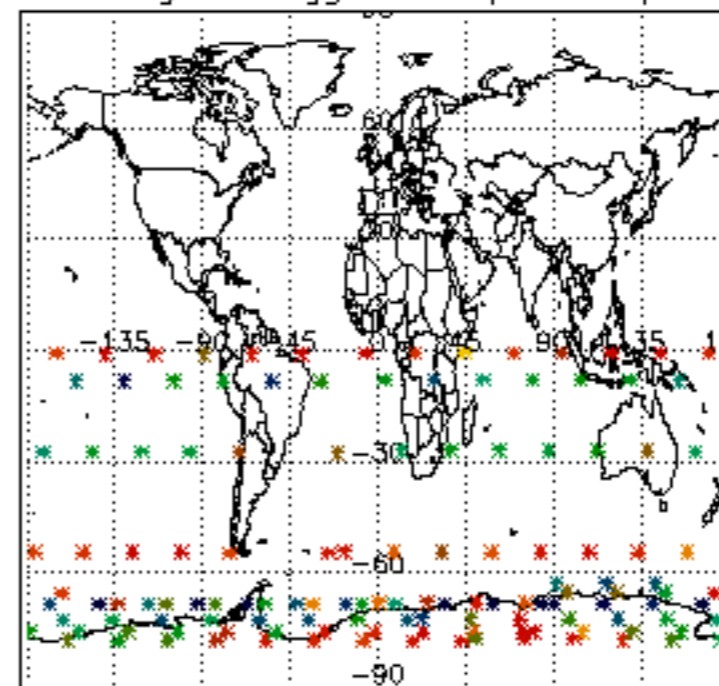
Percentage of flagged data per H2O profile

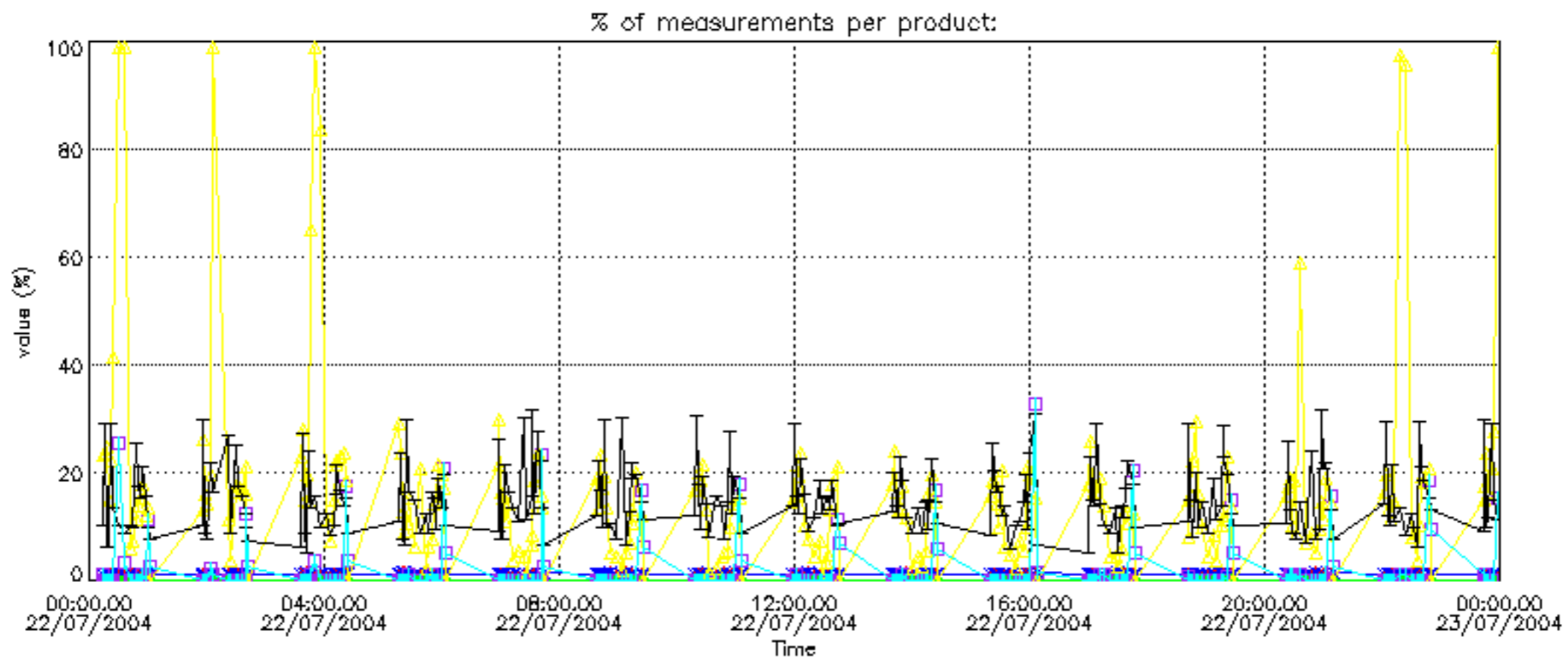


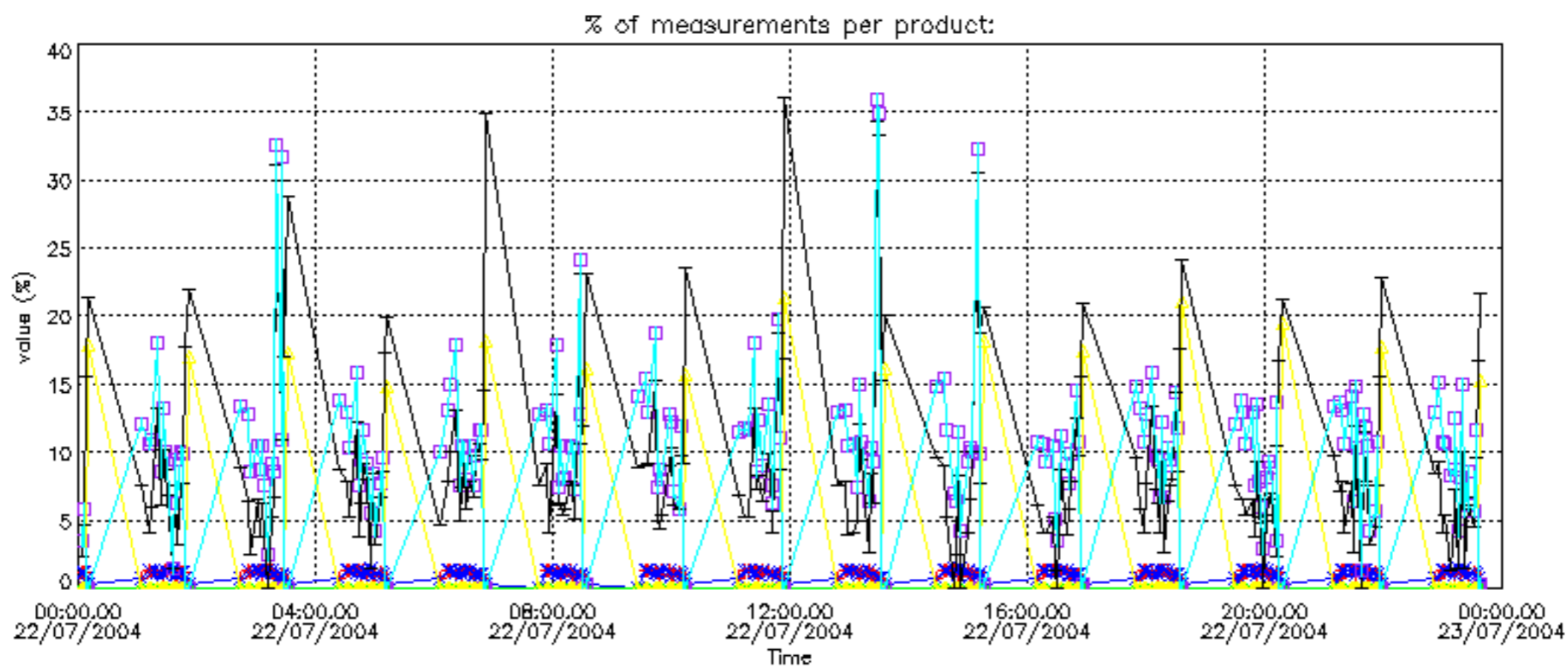
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

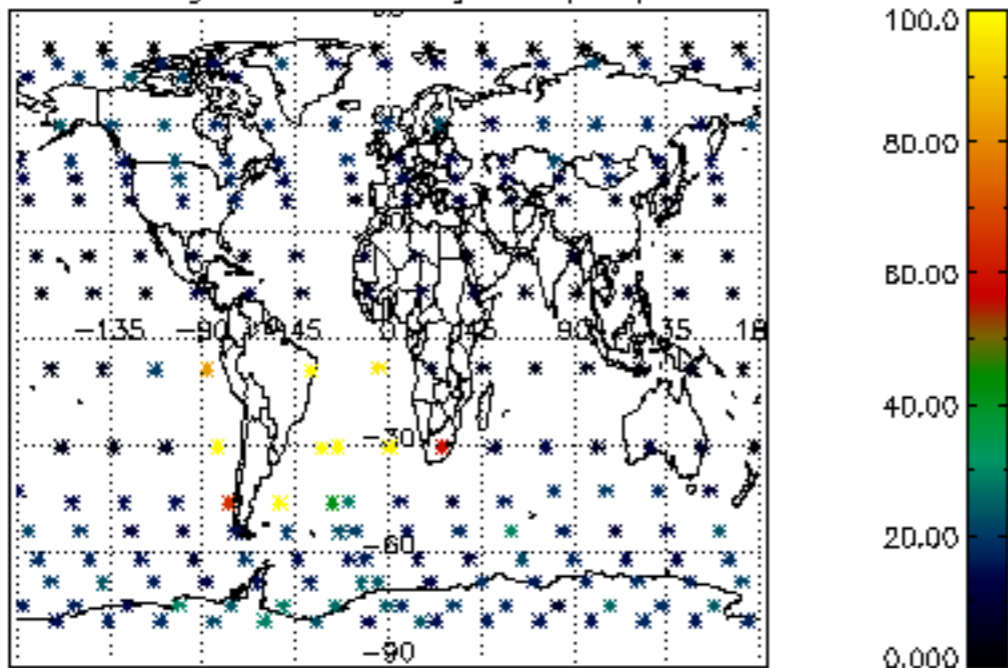




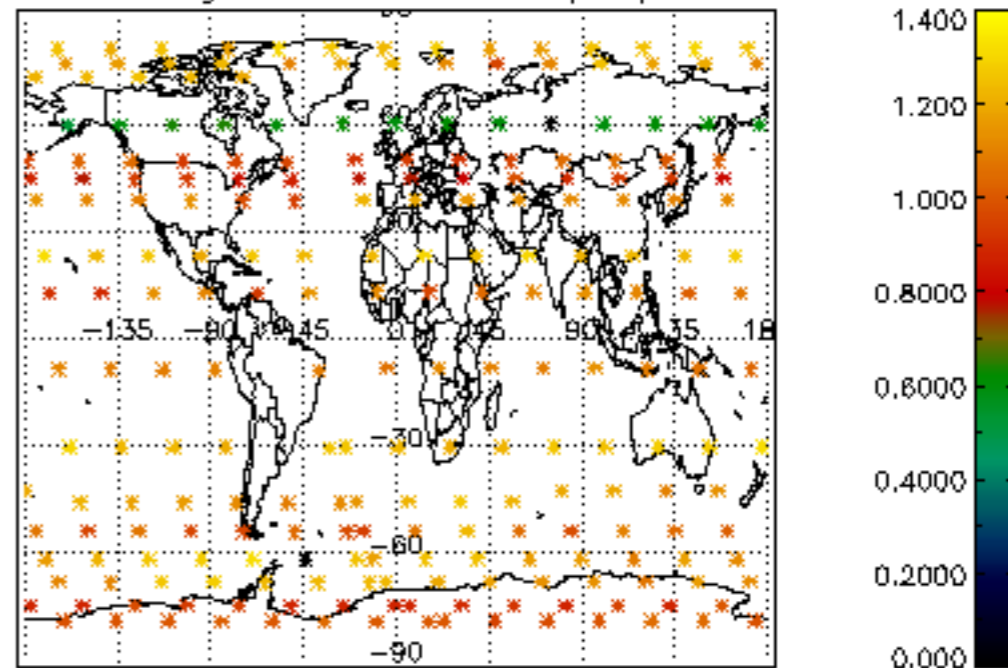




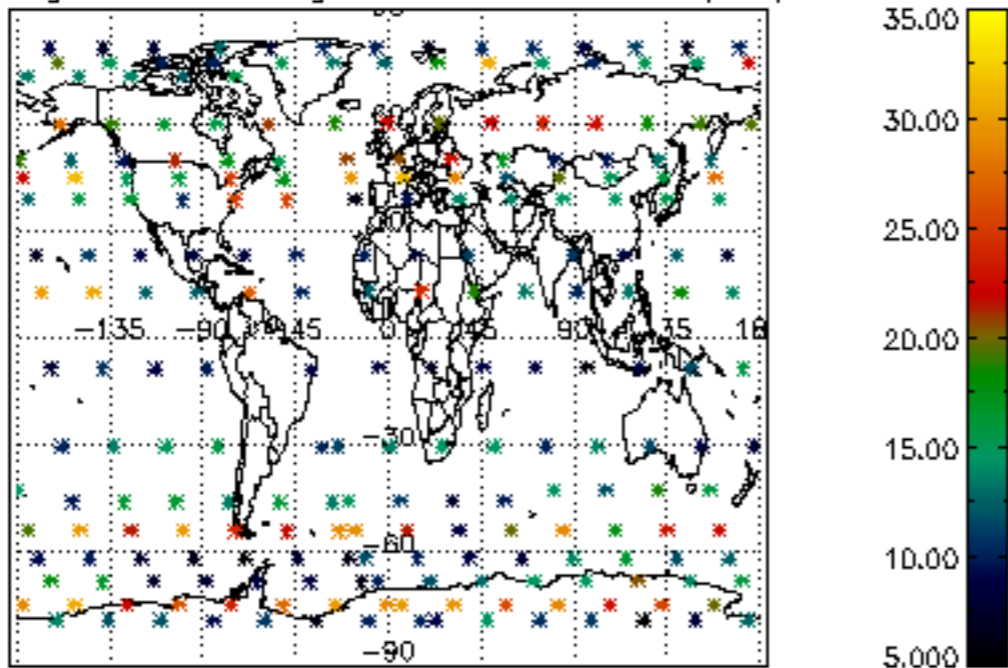
Percentage of cosmic ray hits per profile



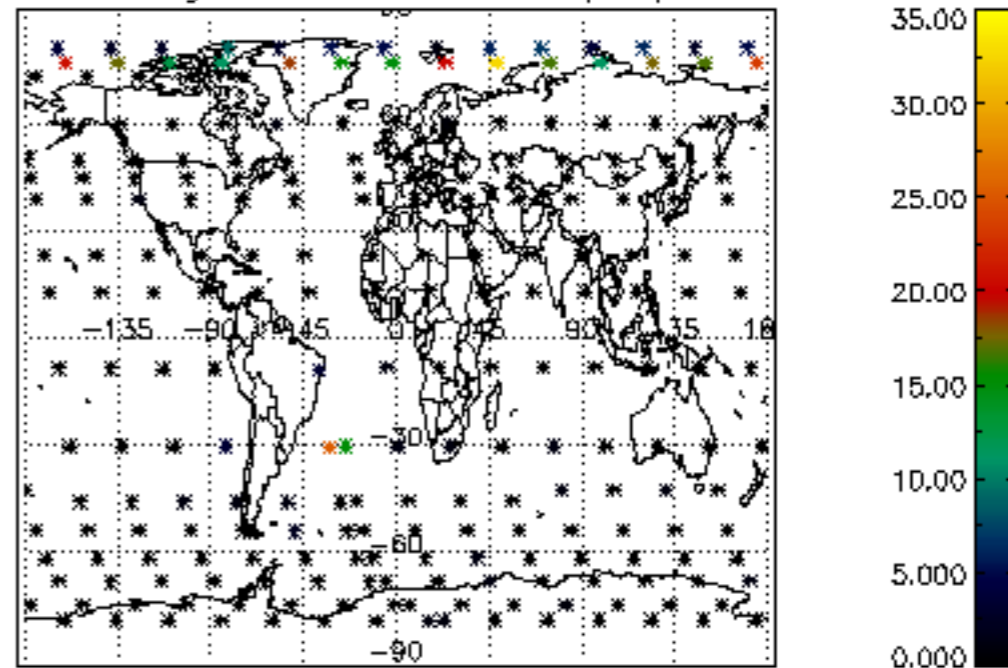
Percentage of datation errors per profile



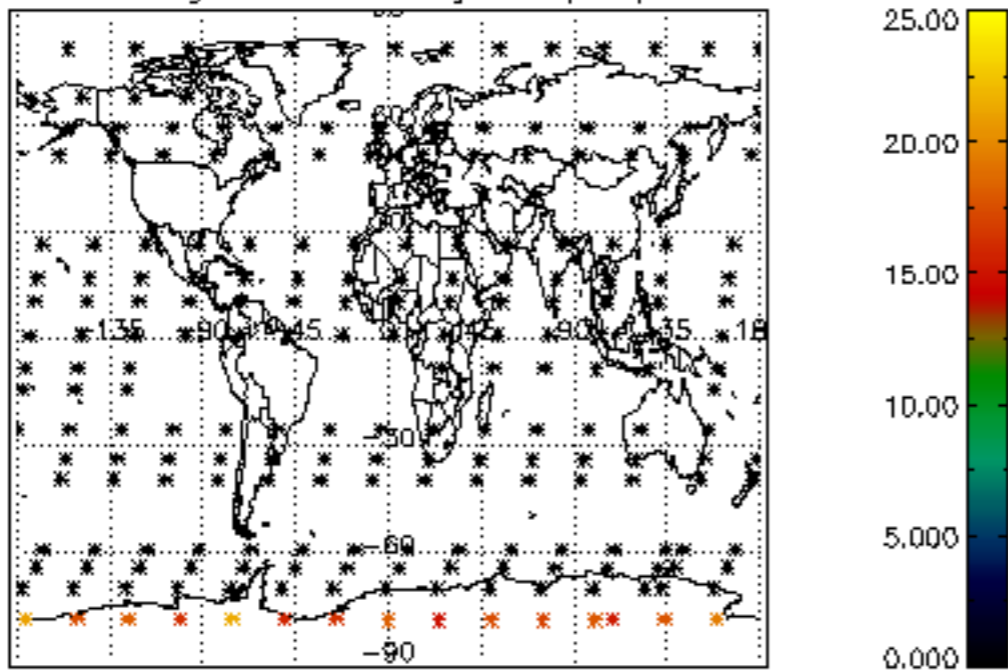
Percentage of star falling outside central band per profile



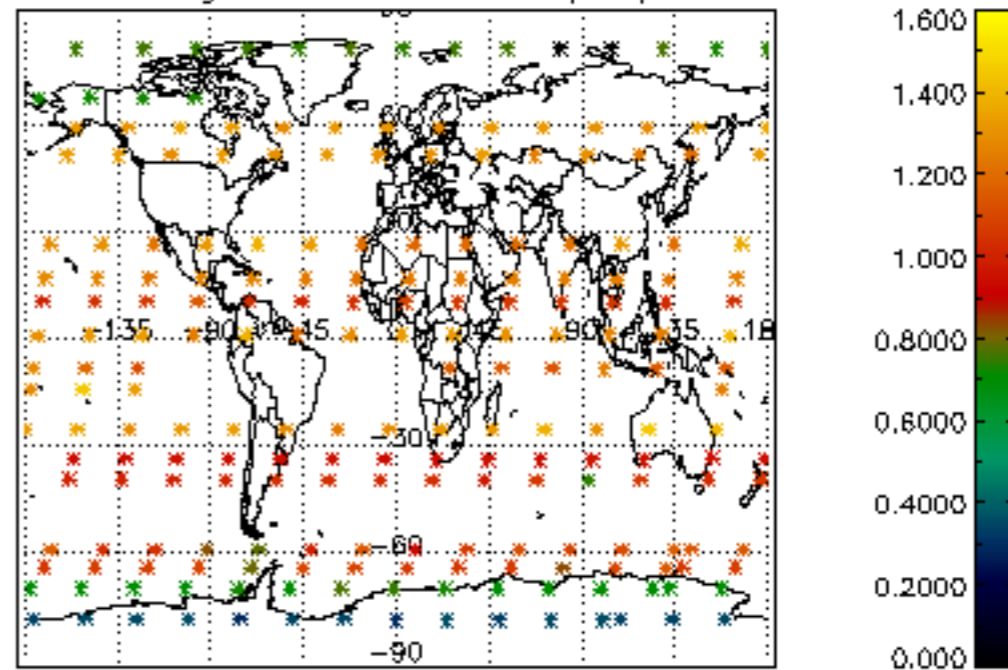
Percentage of saturation errors per profile



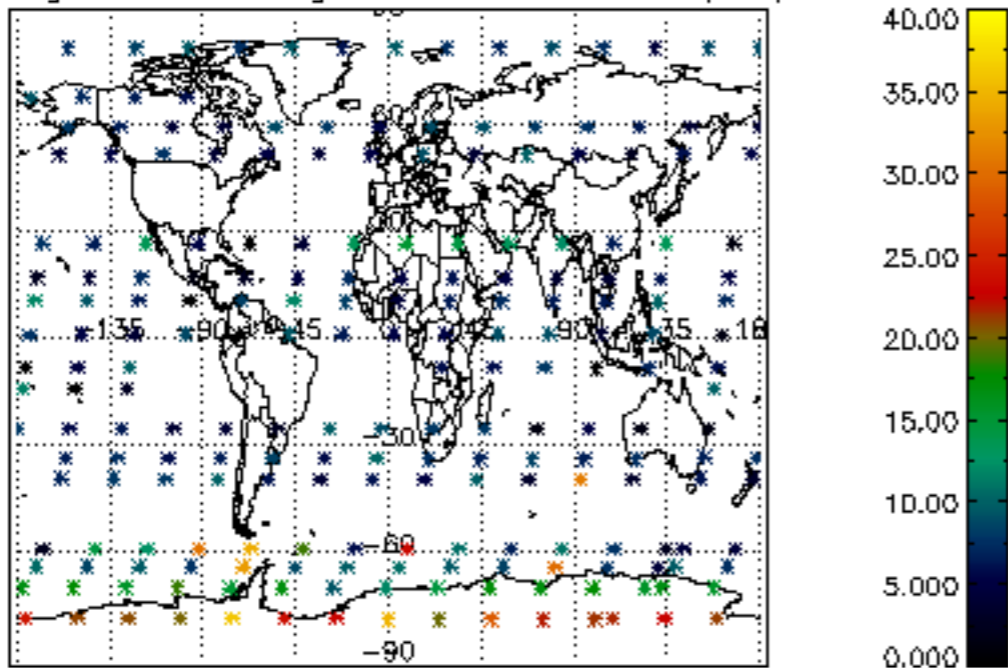
Percentage of cosmic ray hits per profile



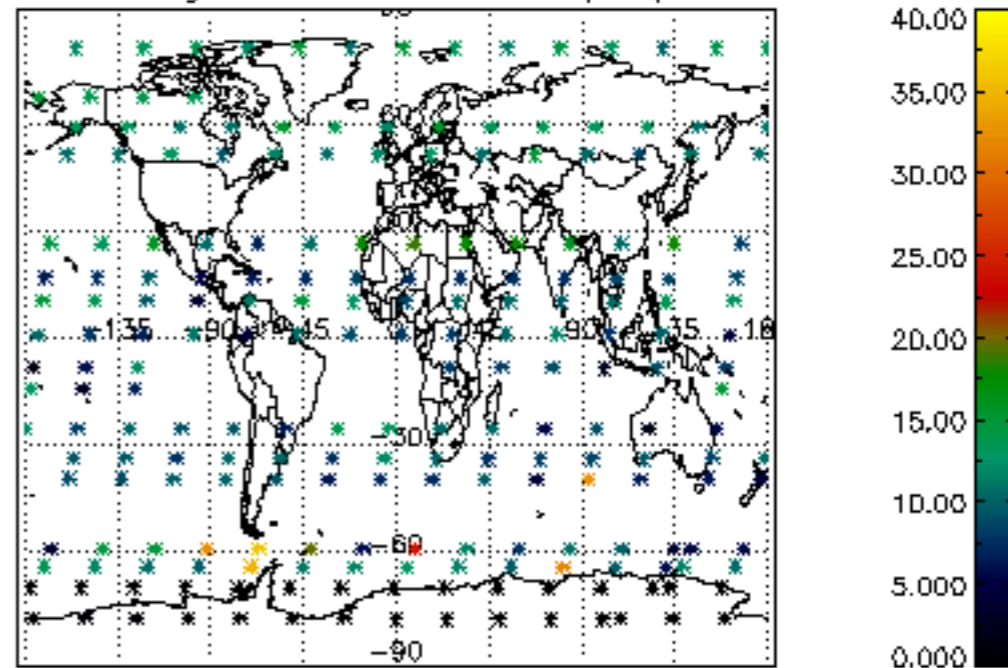
Percentage of datation errors per profile

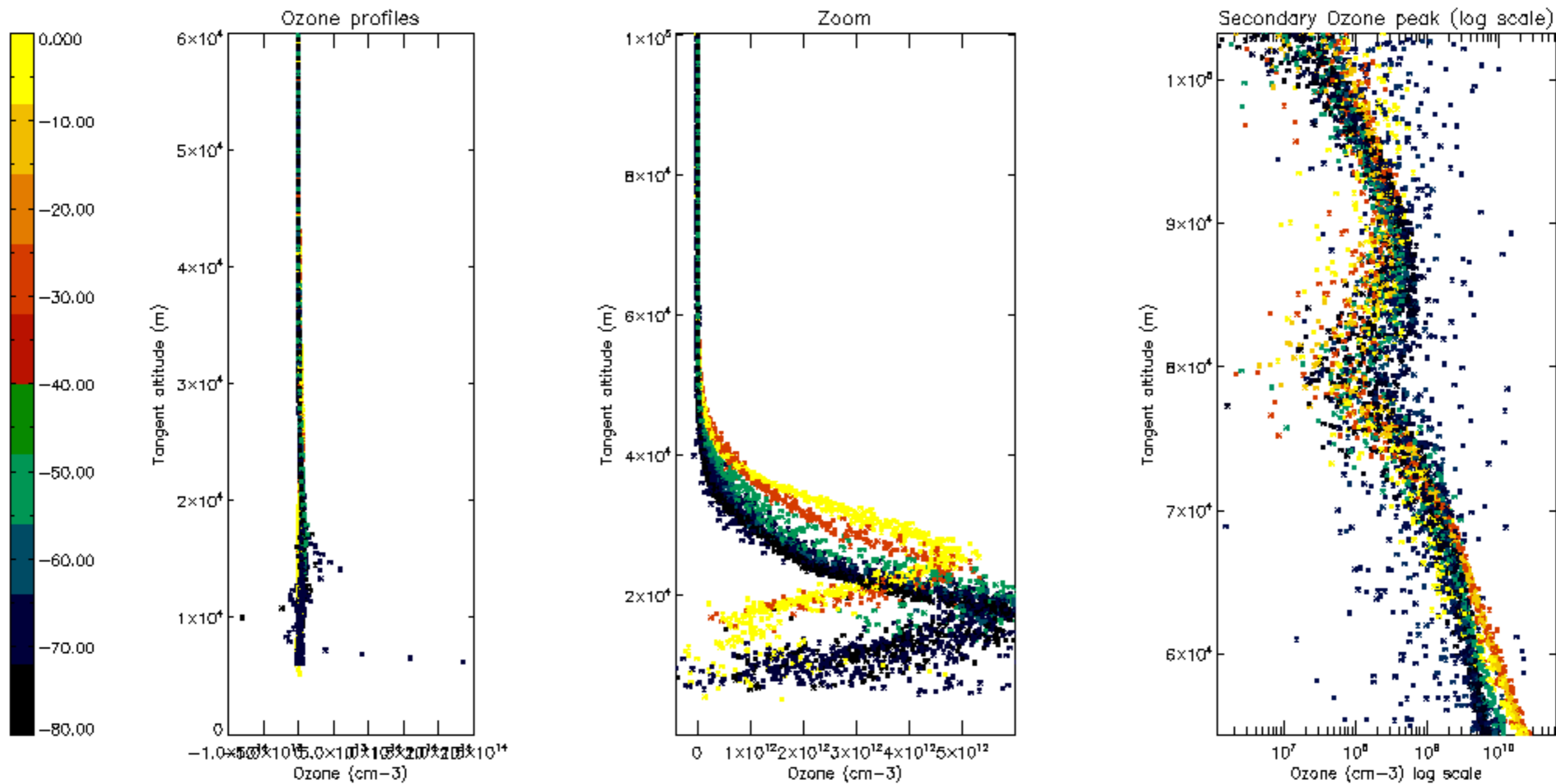


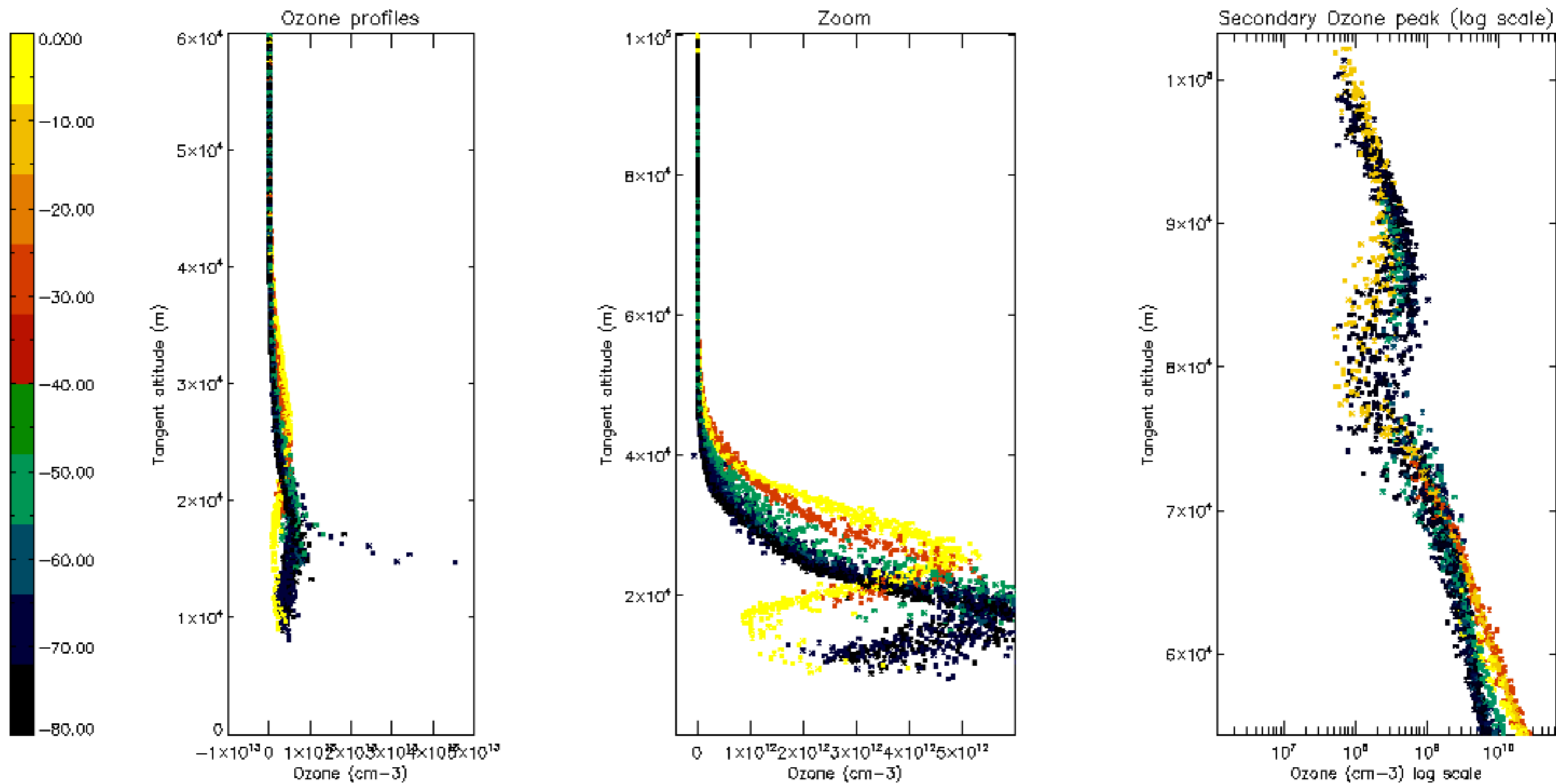
Percentage of star falling outside central band per profile

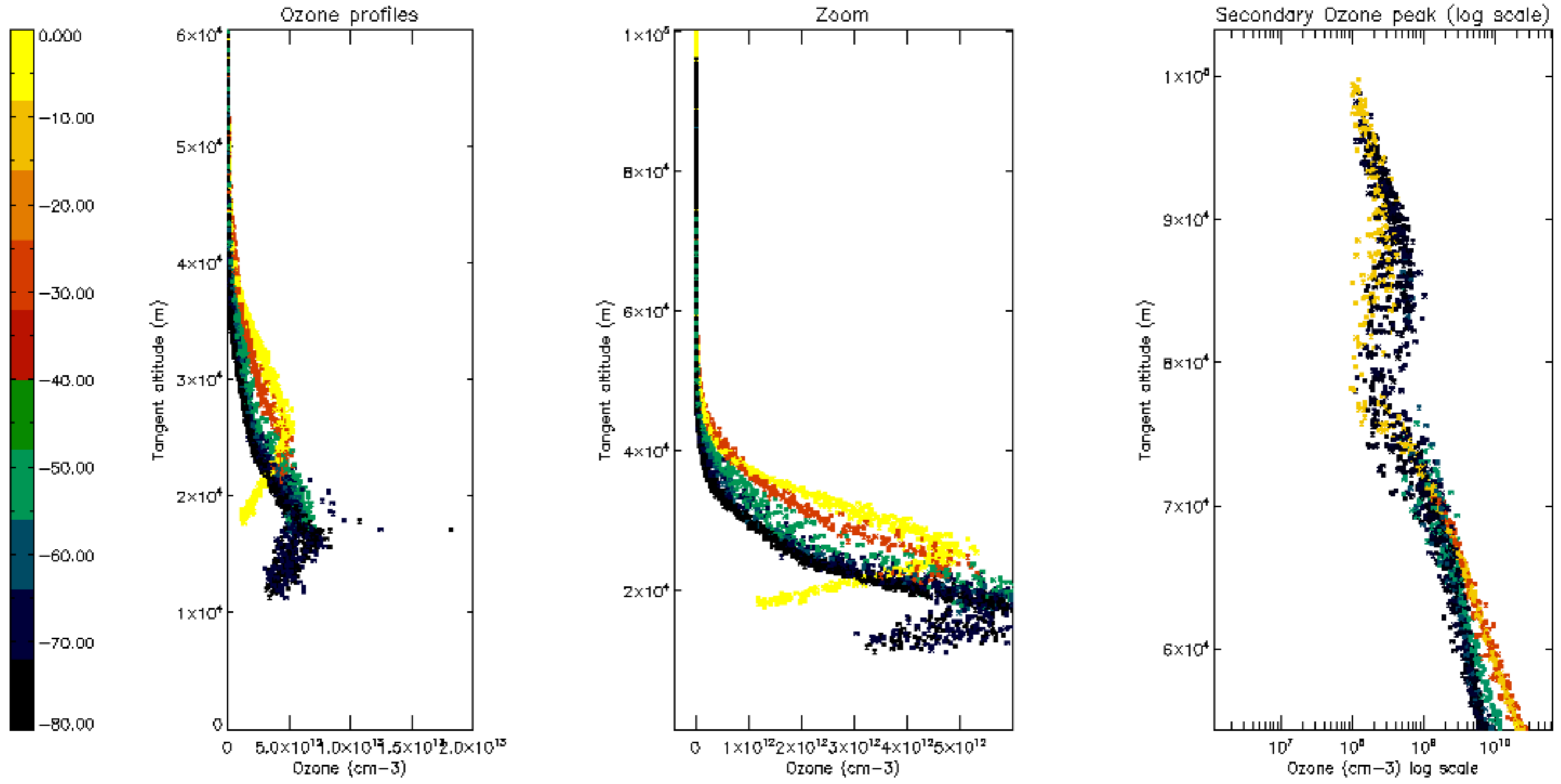


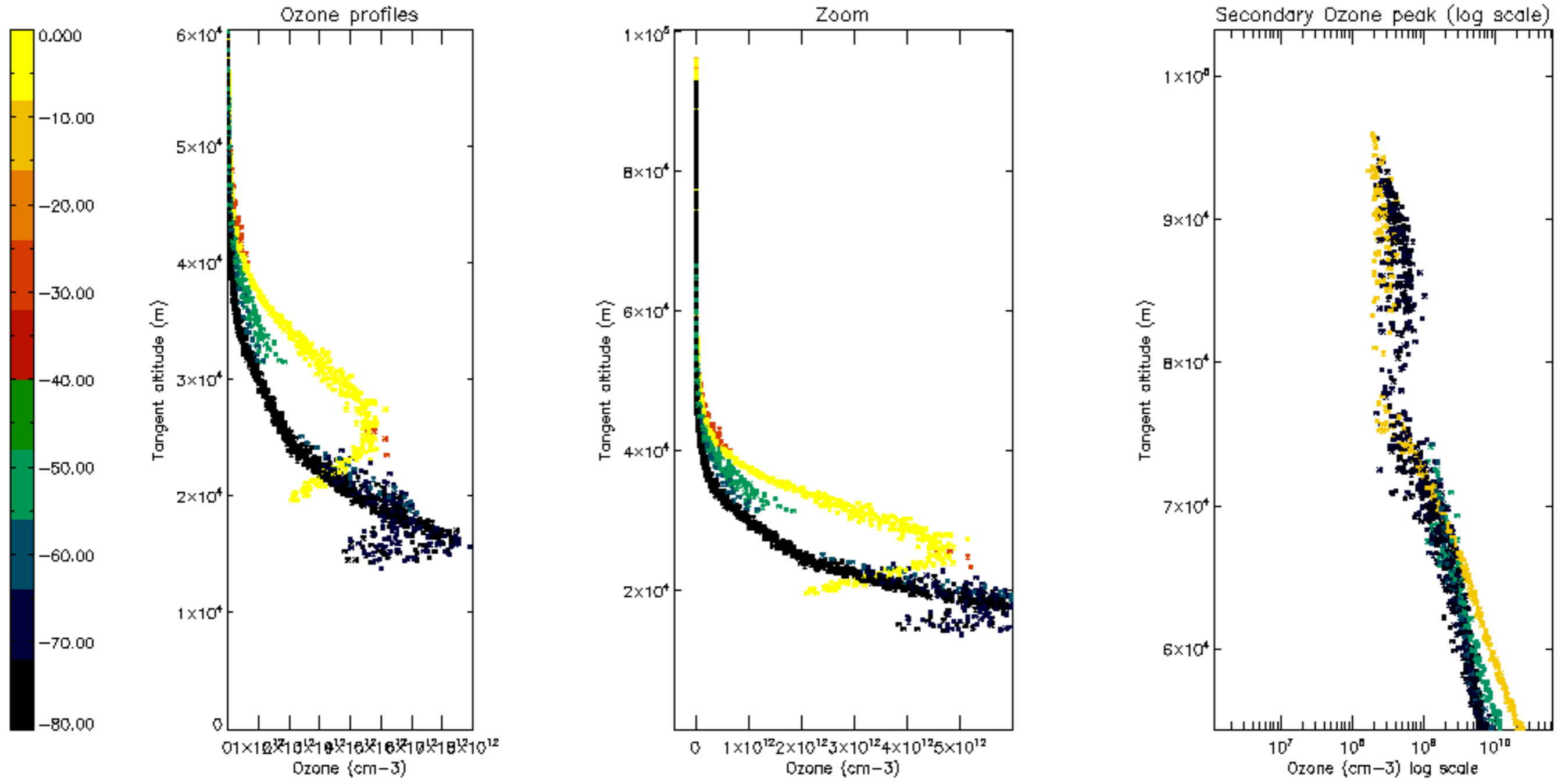
Percentage of saturation errors per profile

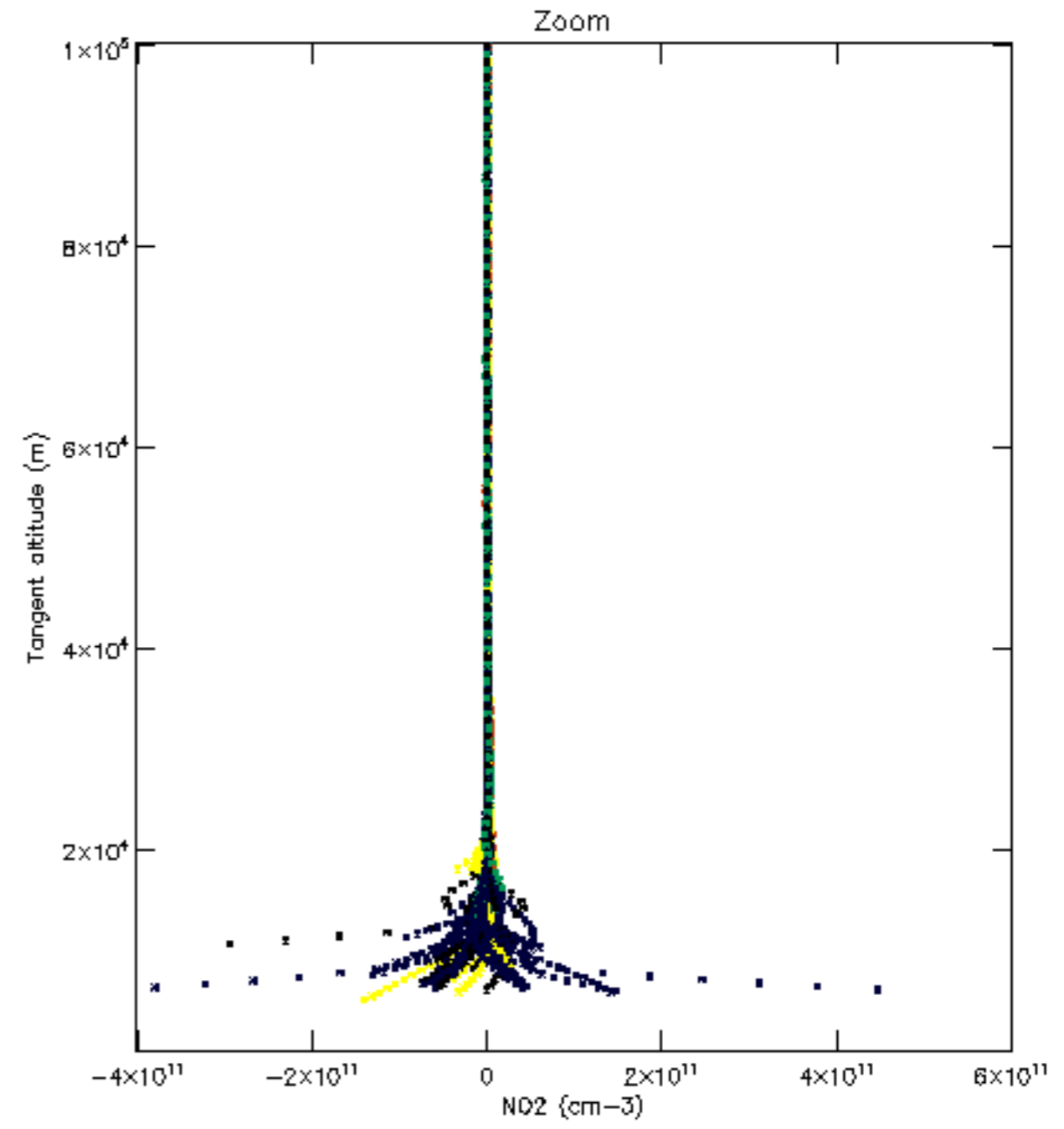
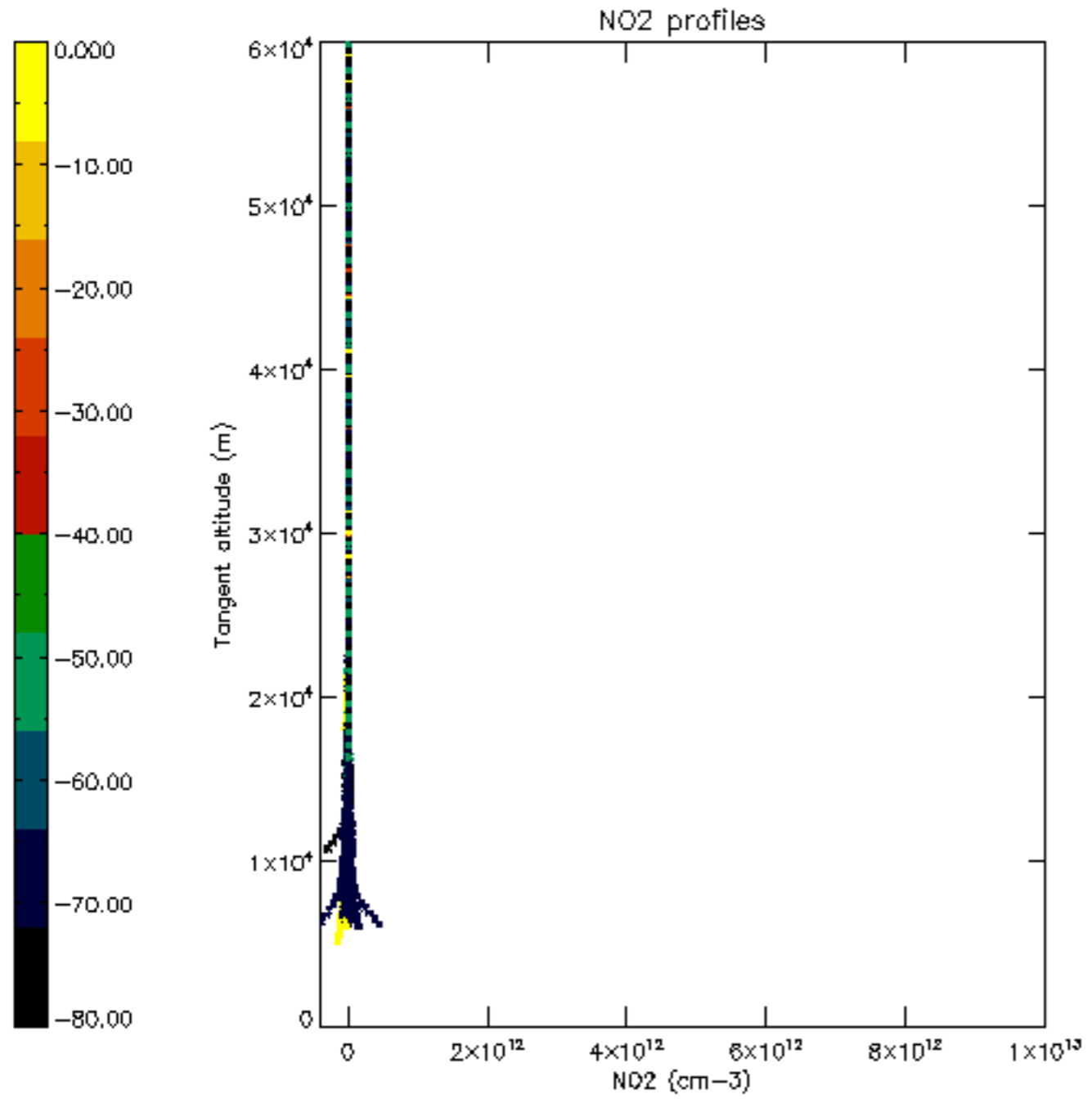


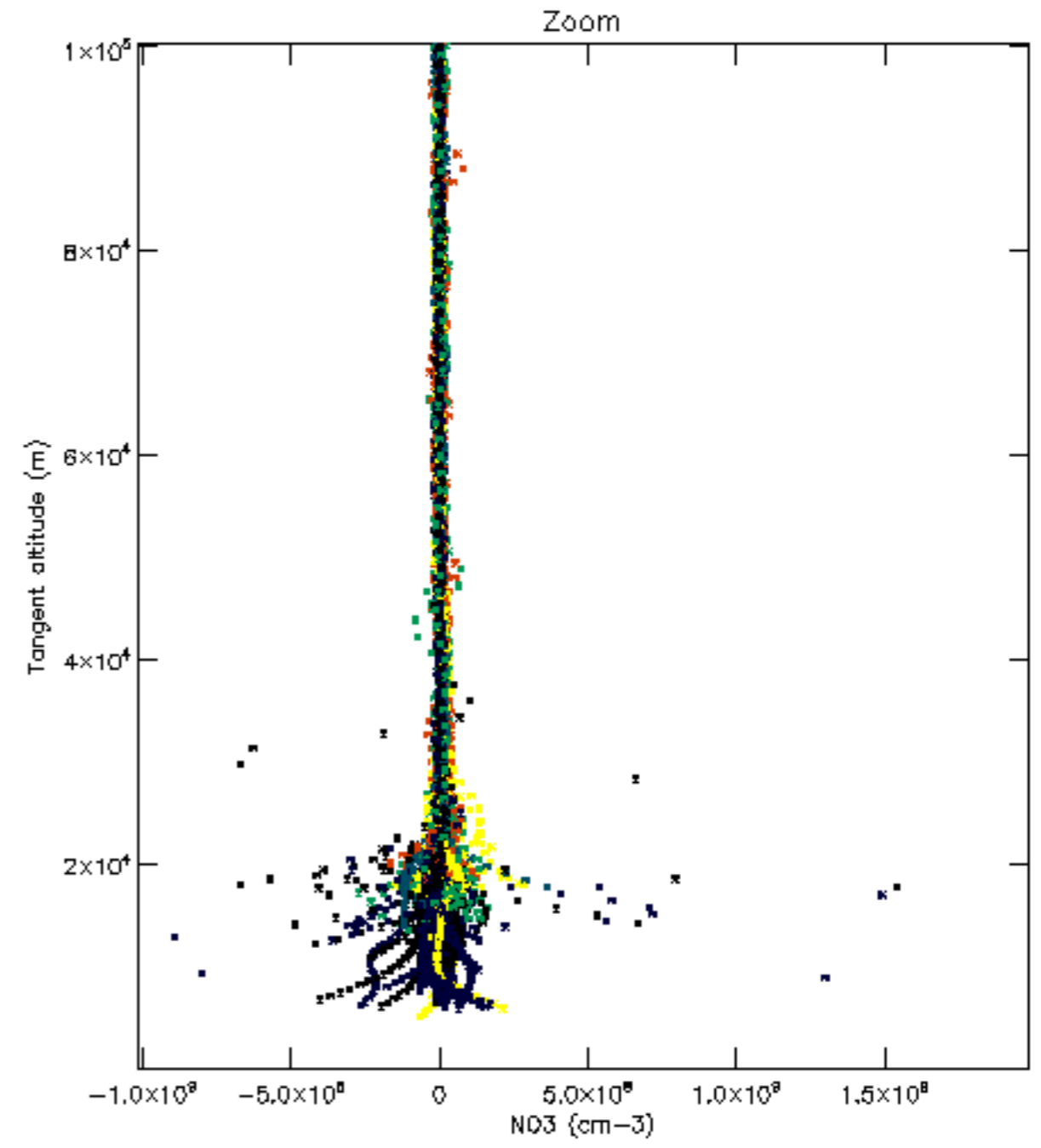
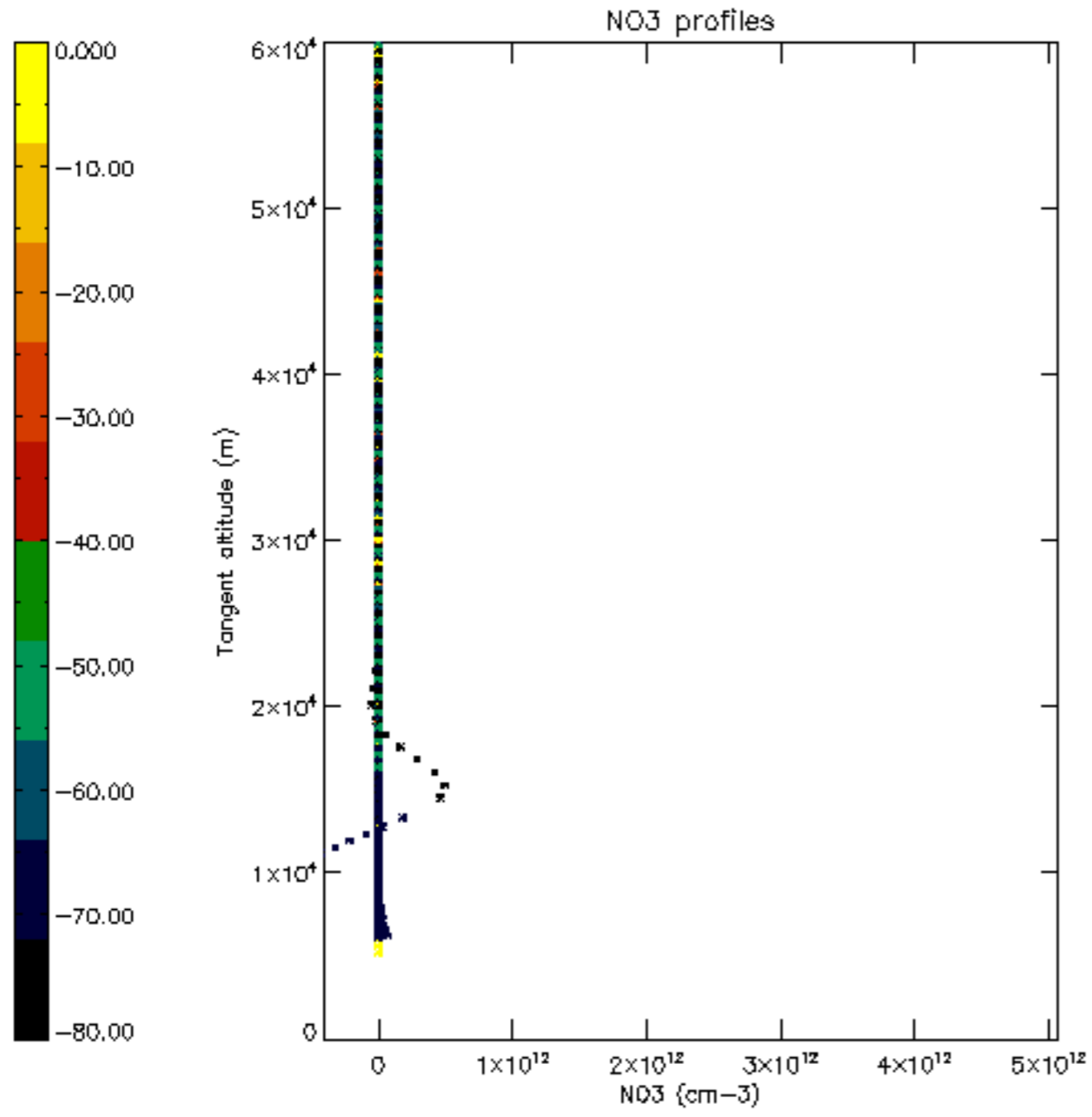




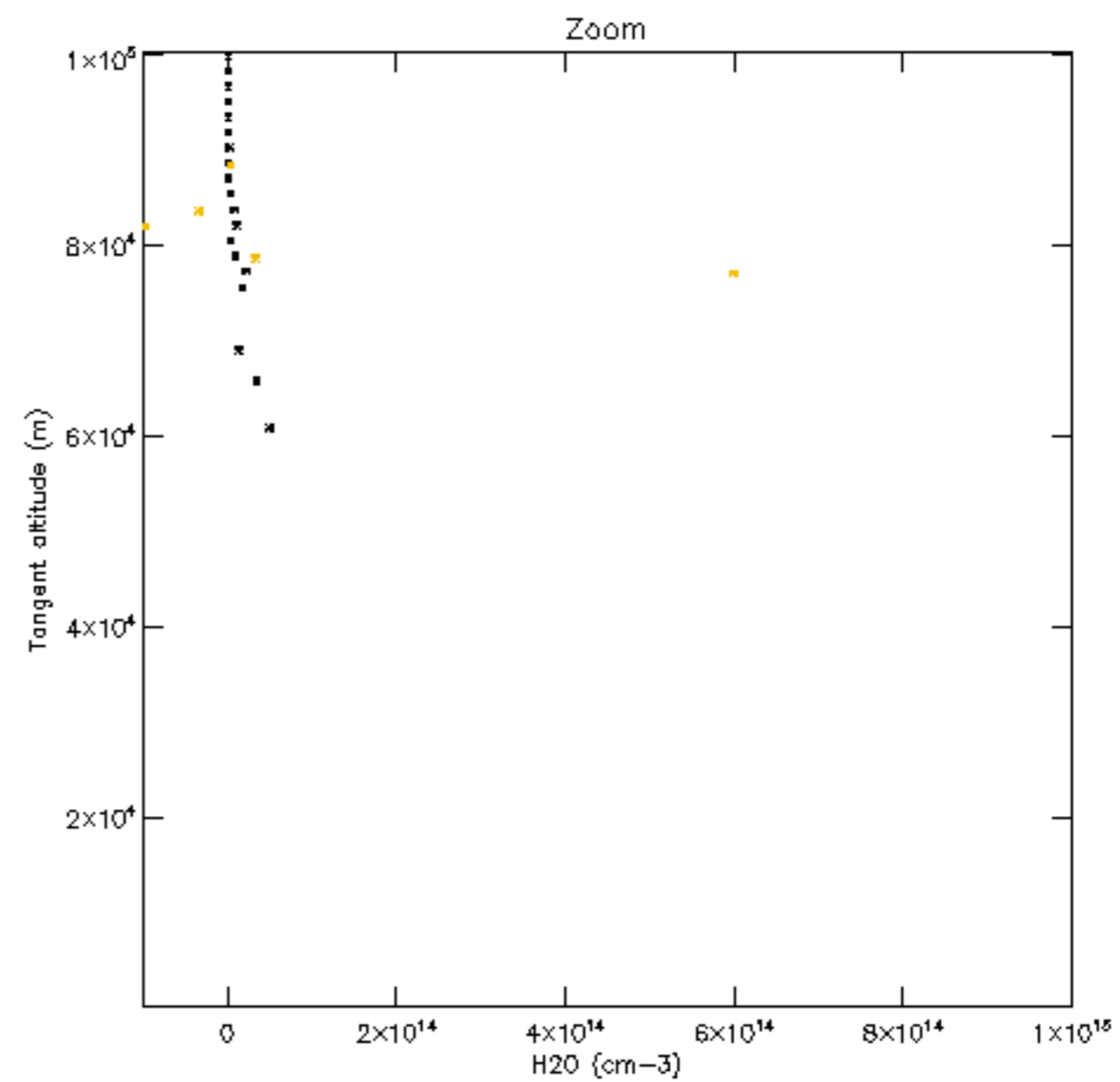
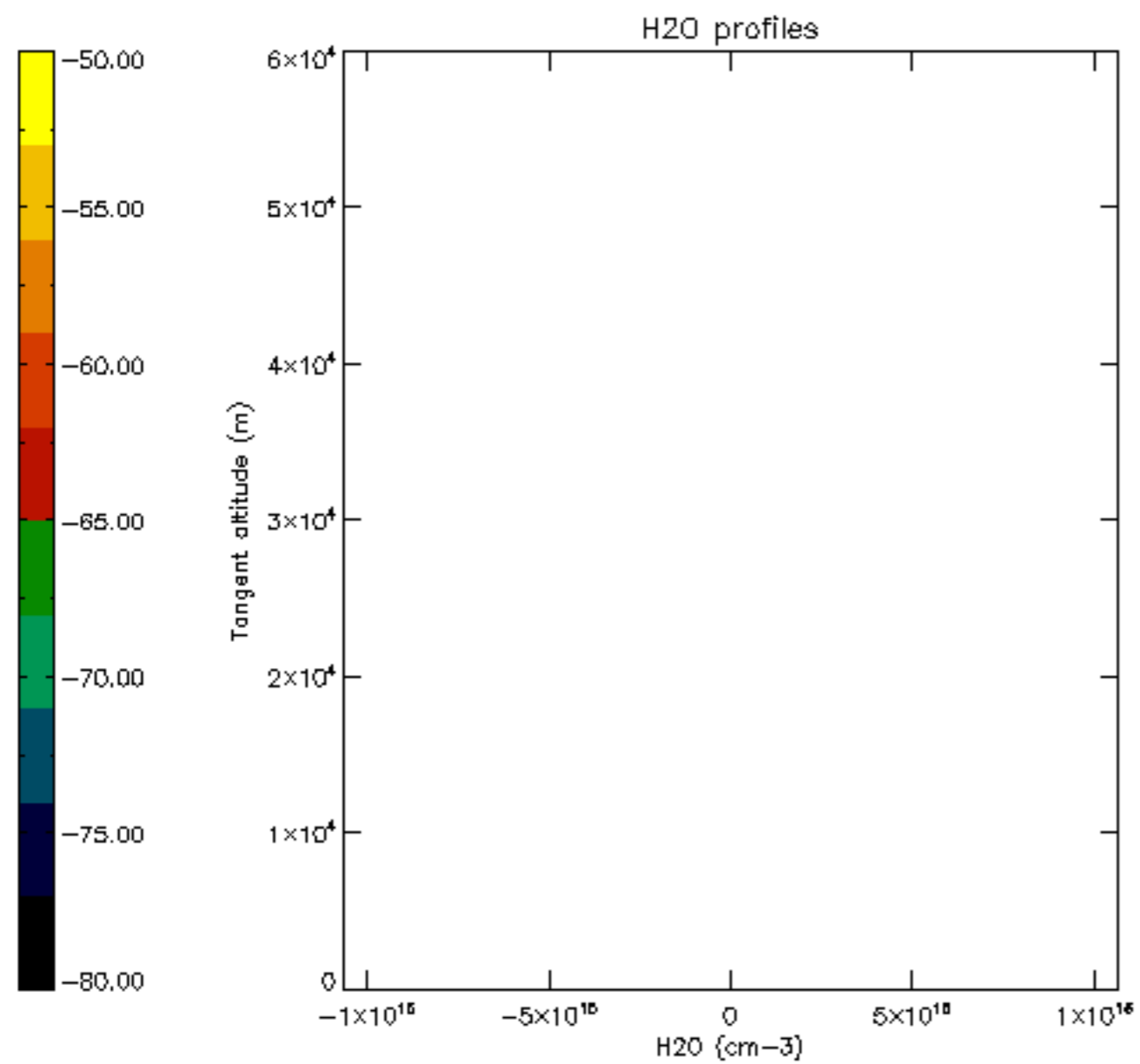


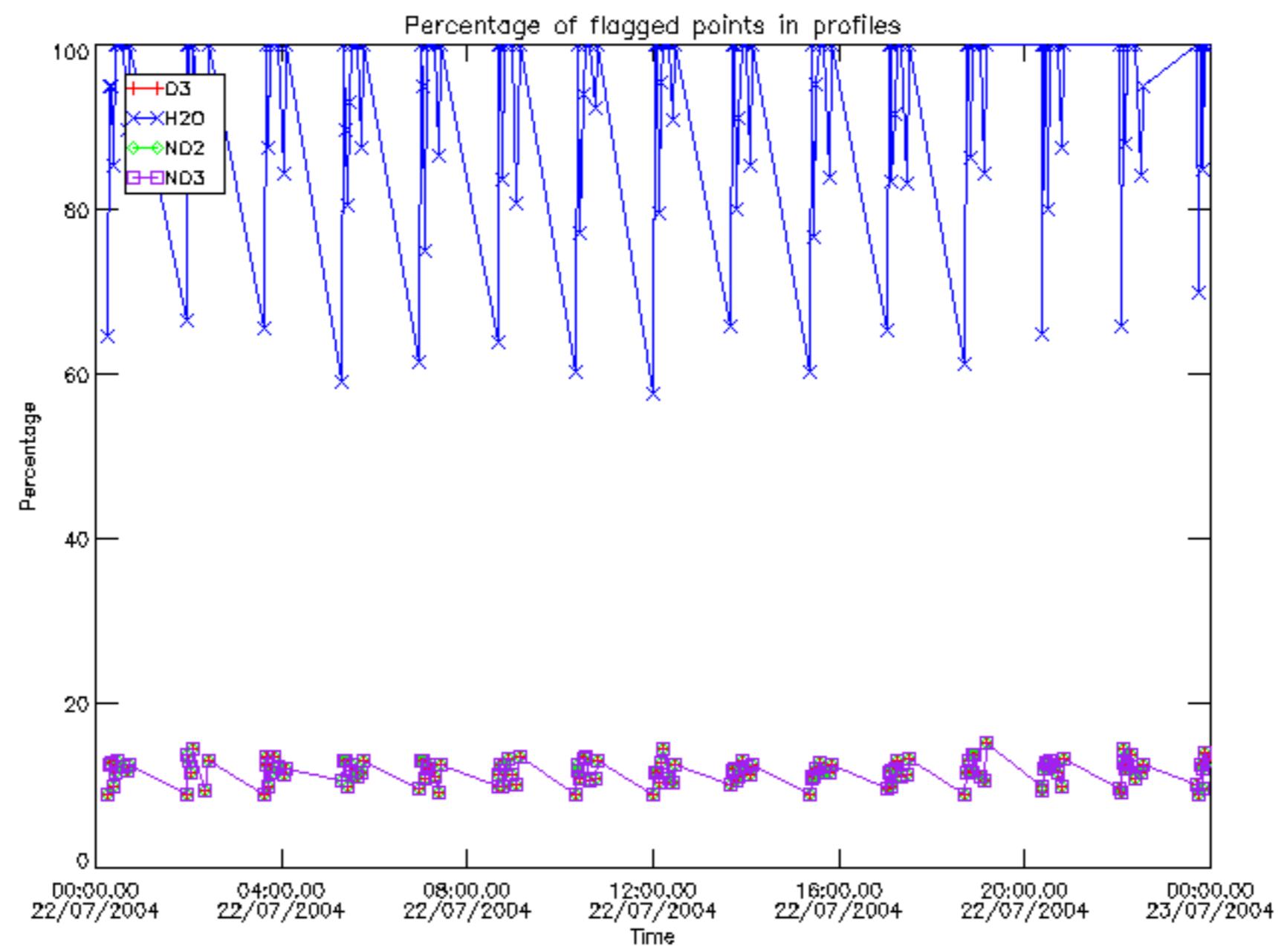




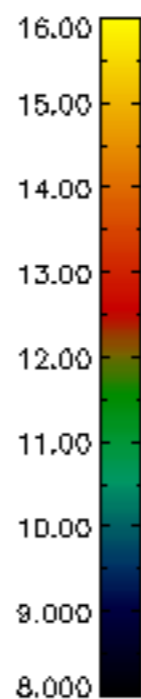
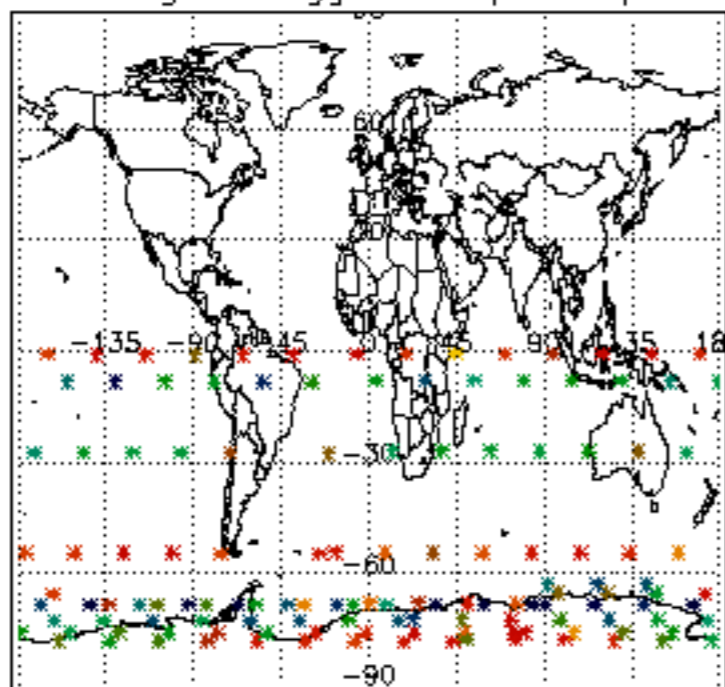




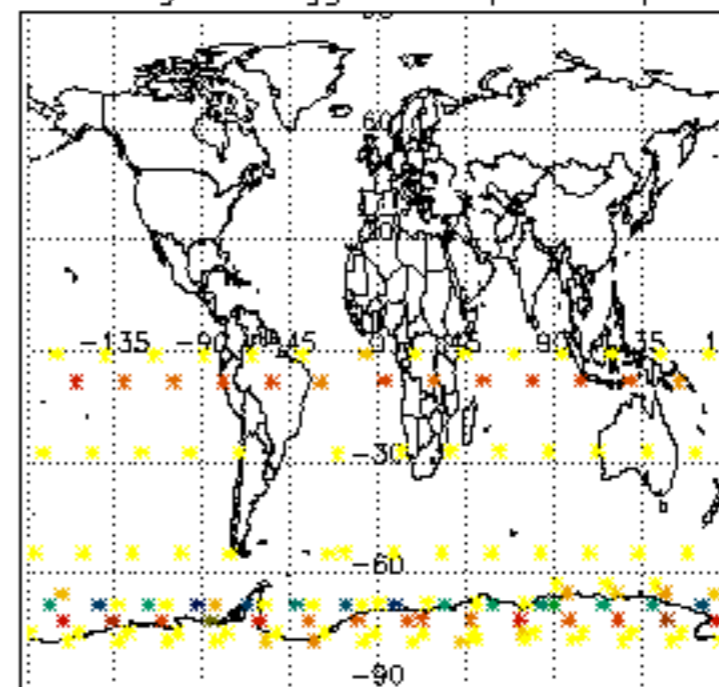




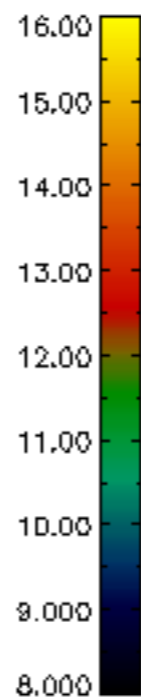
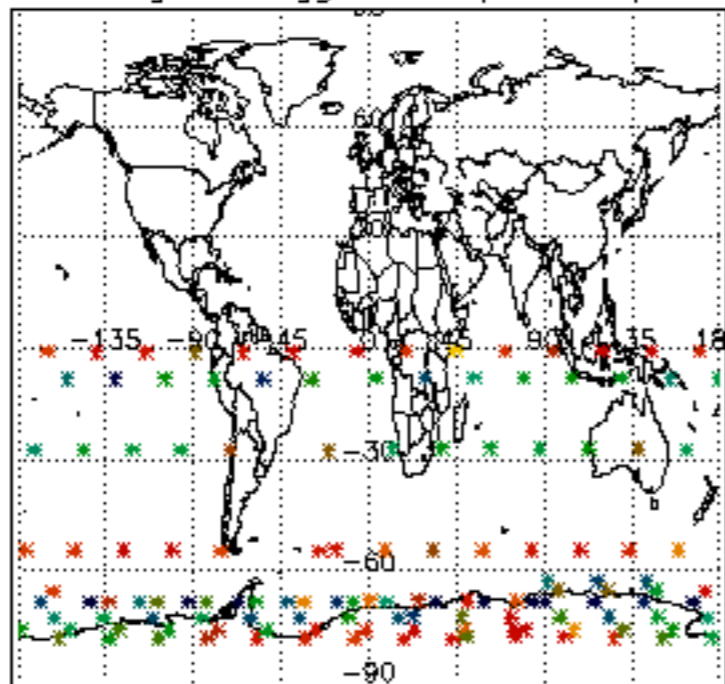
Percentage of flagged data per D3 profile



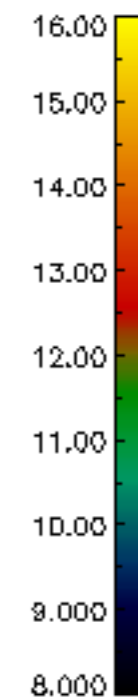
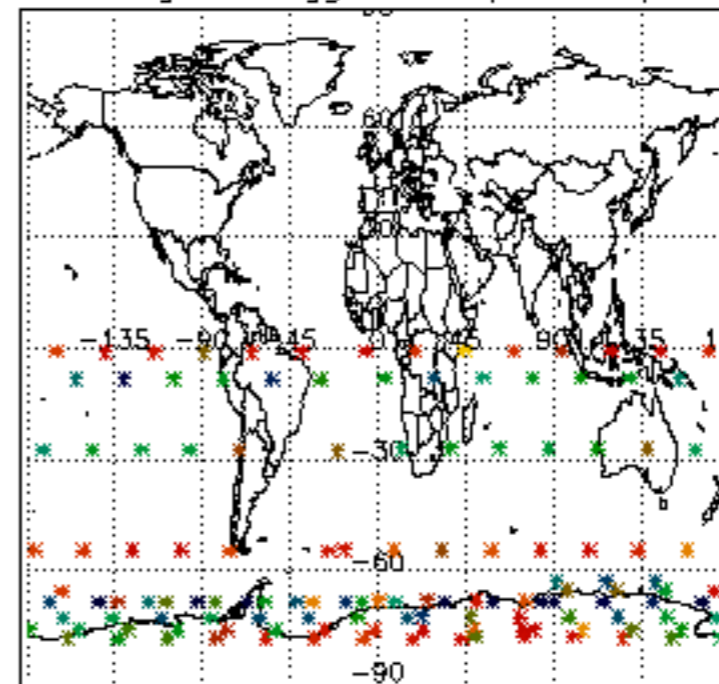
Percentage of flagged data per H2O profile

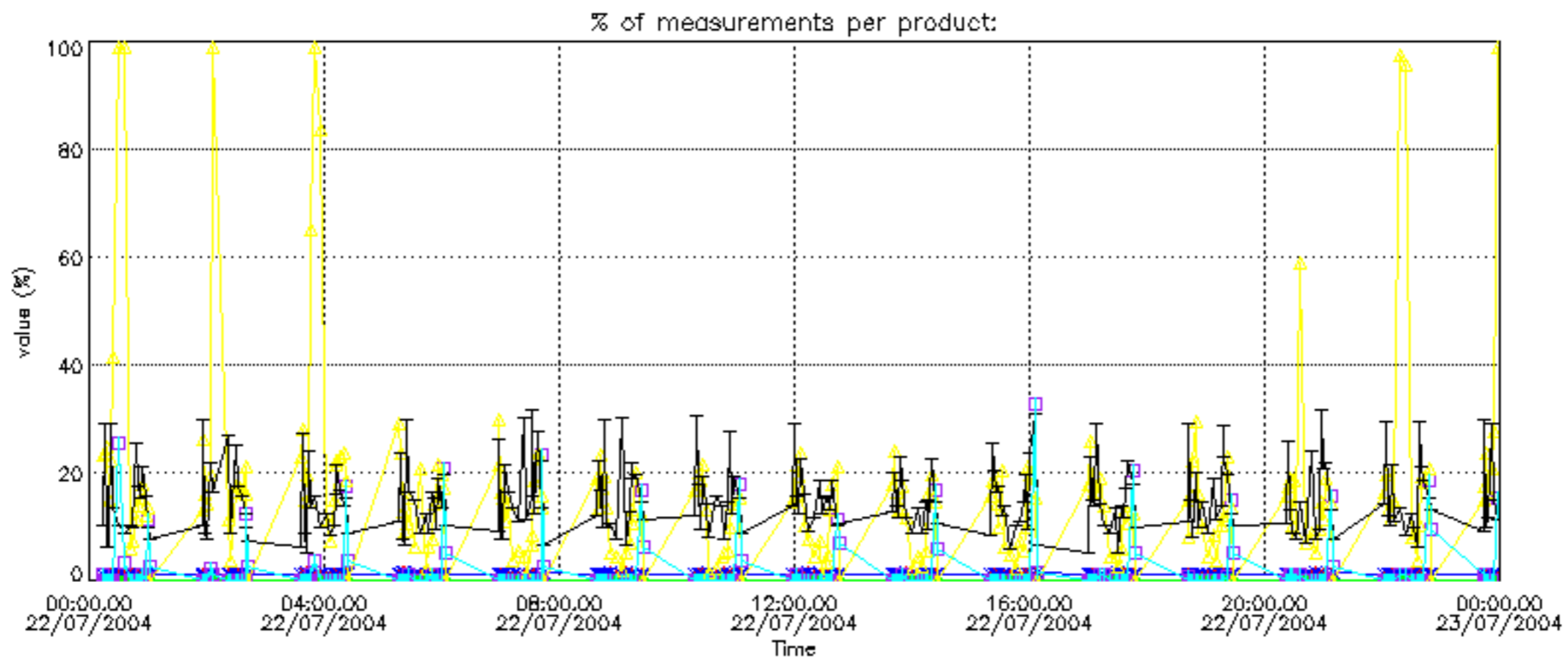


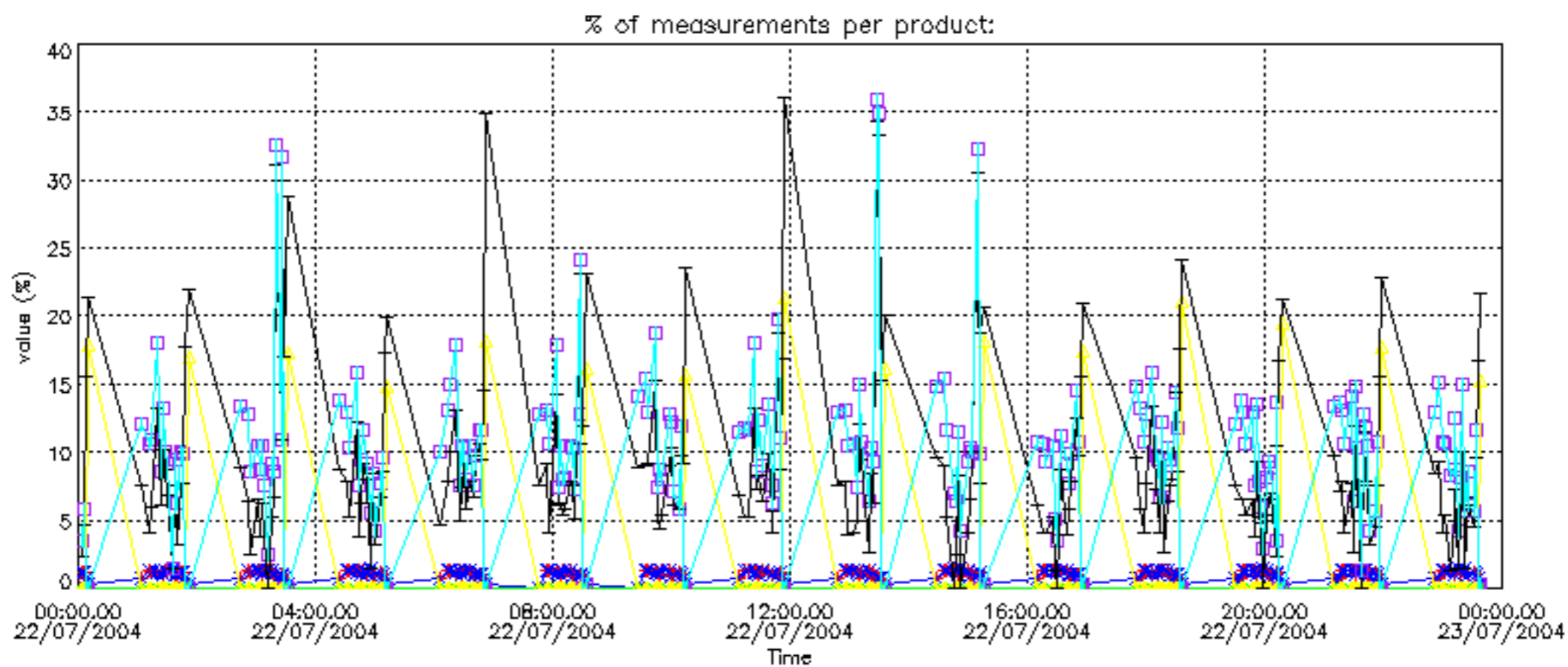
Percentage of flagged data per NO2 profile



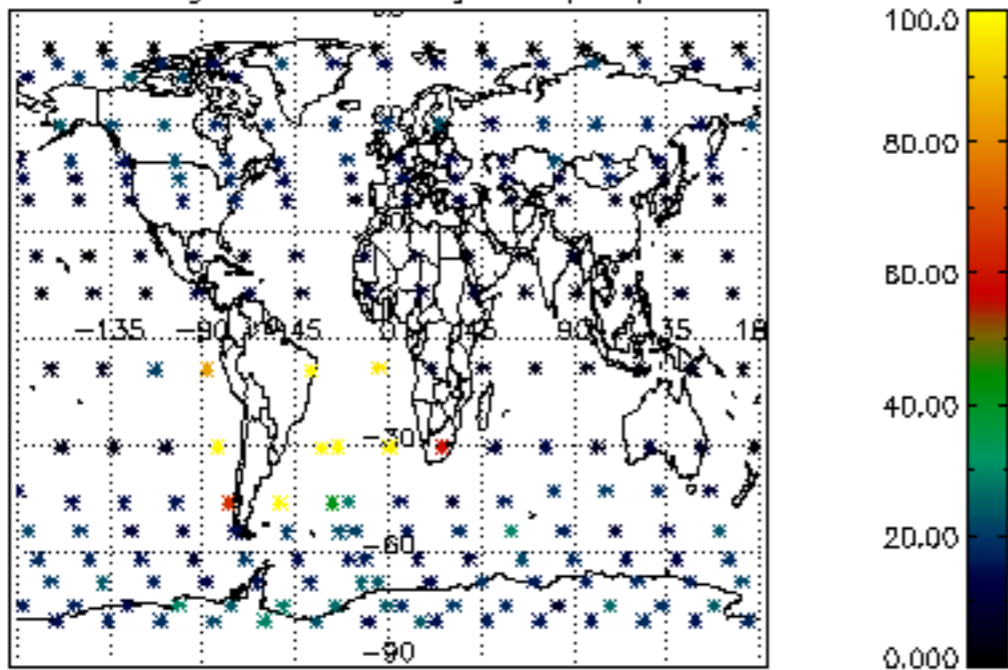
Percentage of flagged data per NO3 profile



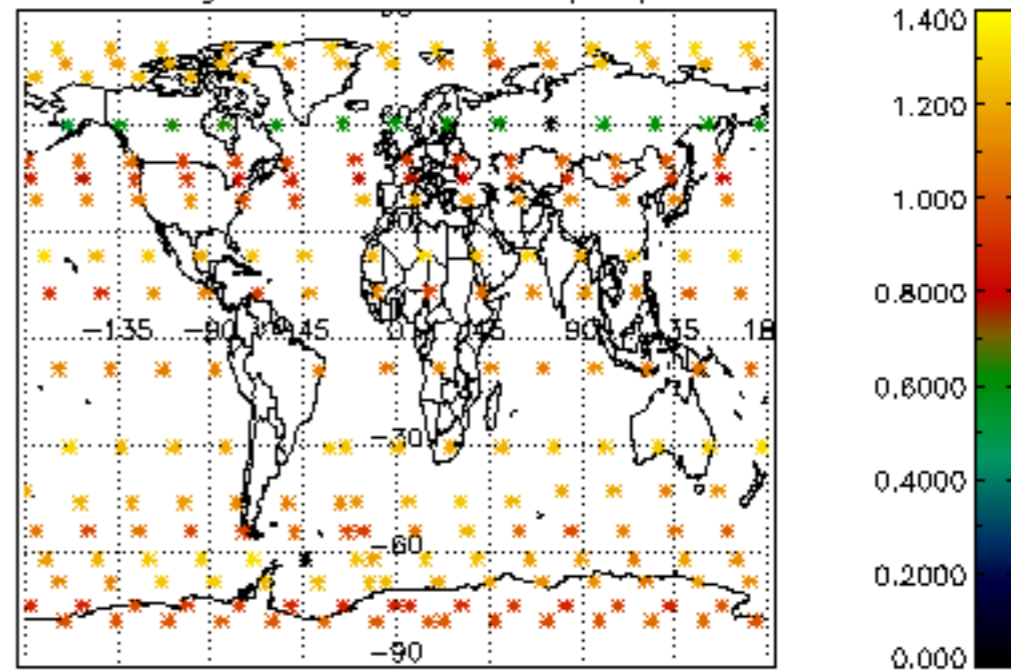




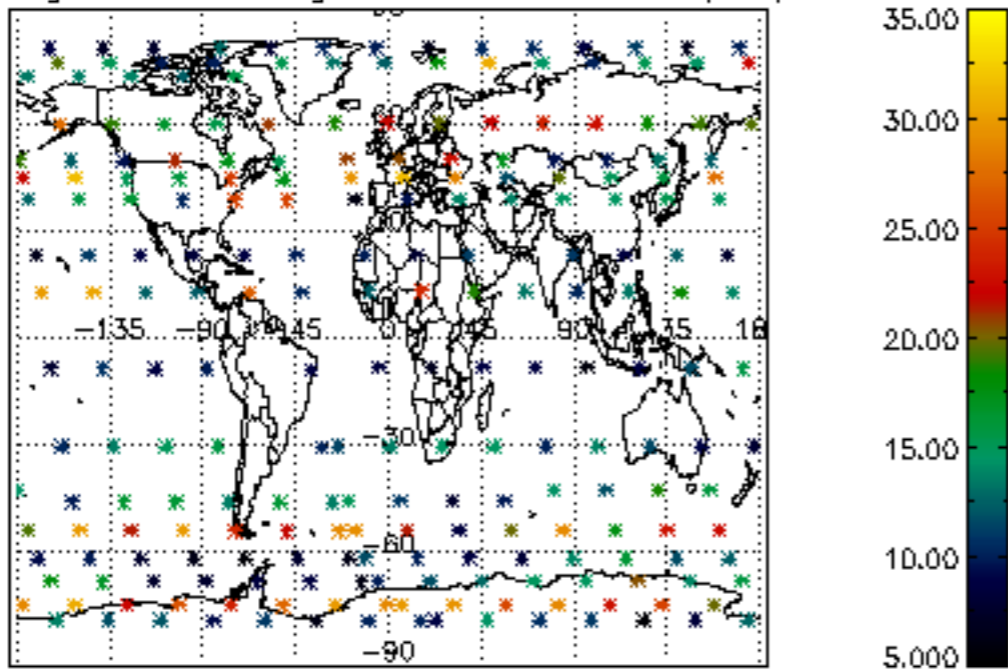
Percentage of cosmic ray hits per profile



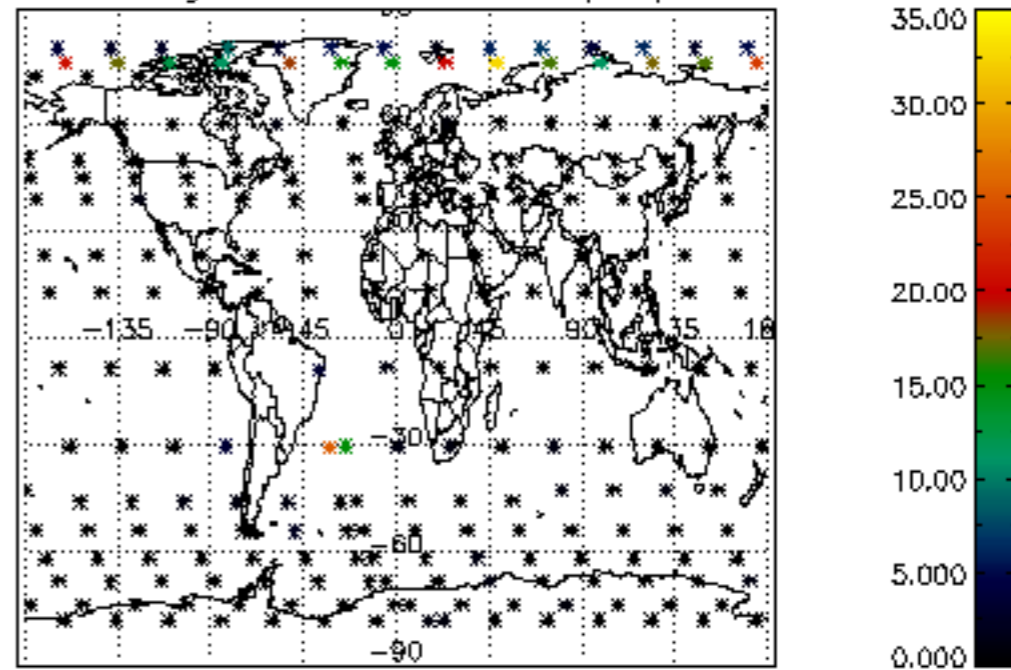
Percentage of datation errors per profile



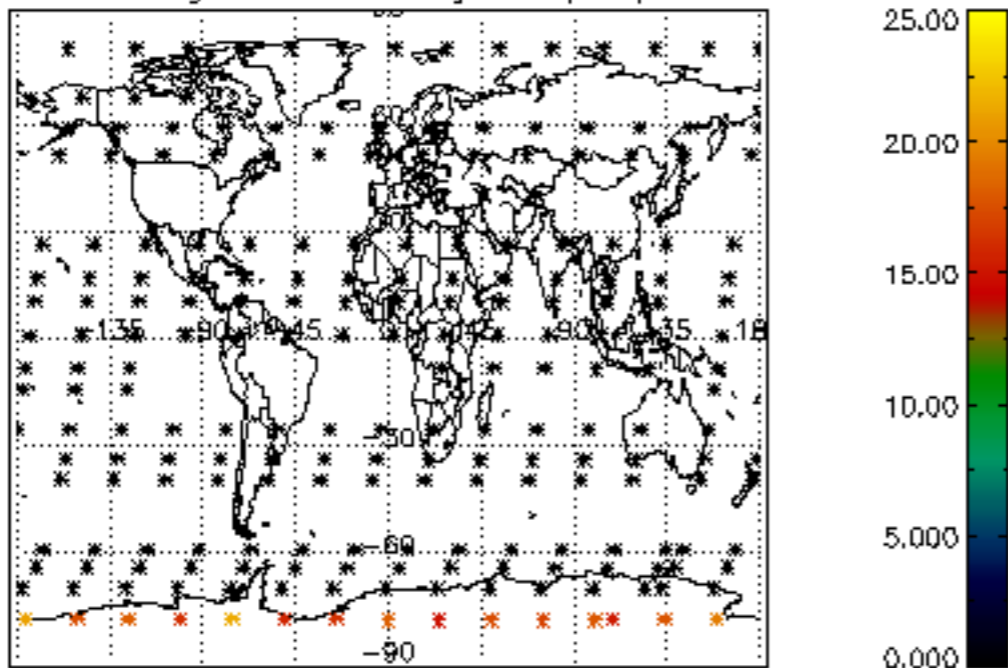
Percentage of star falling outside central band per profile



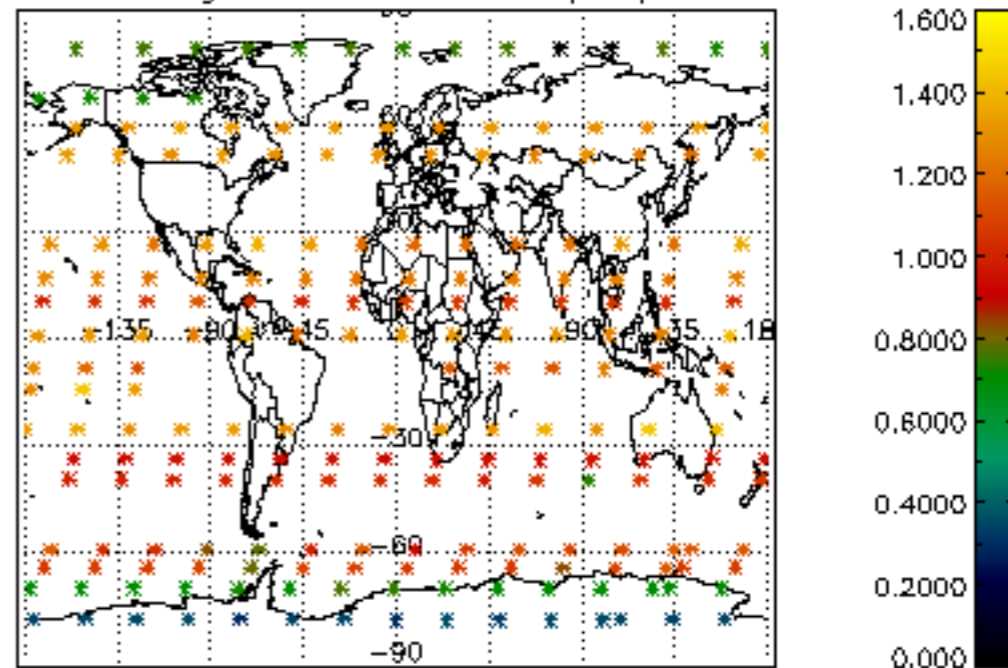
Percentage of saturation errors per profile



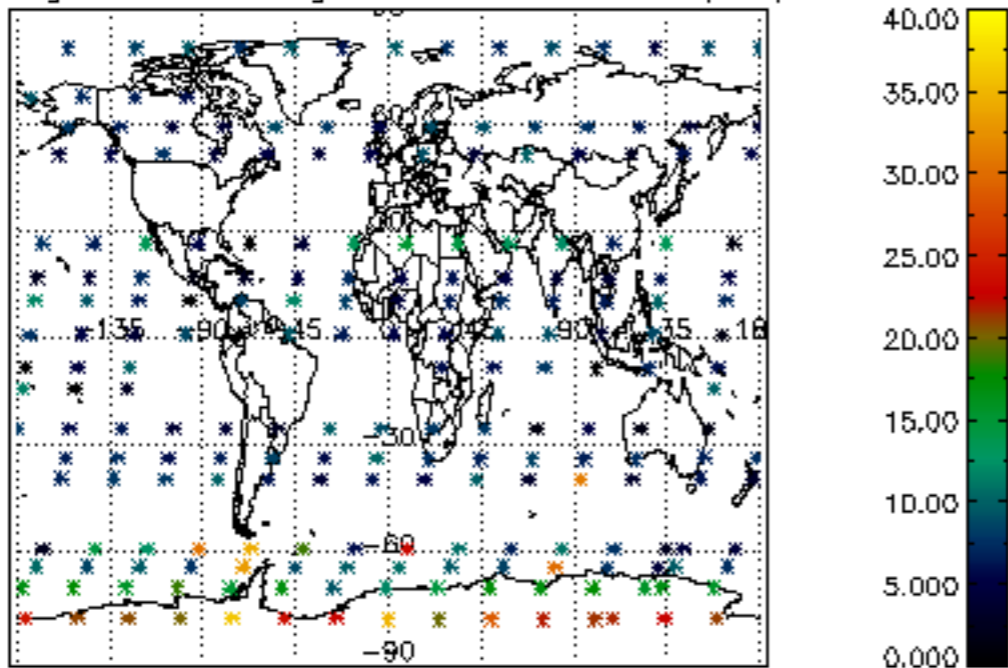
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

