

# 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	29APR2013 16:07:57
Data source version	GOMOS/6.01
Start time of products	22-10-2010 (22OCT2010 00:00:00)
Stop time of products	23-10-2010 (23OCT2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	23
Nb of prods with errors	0

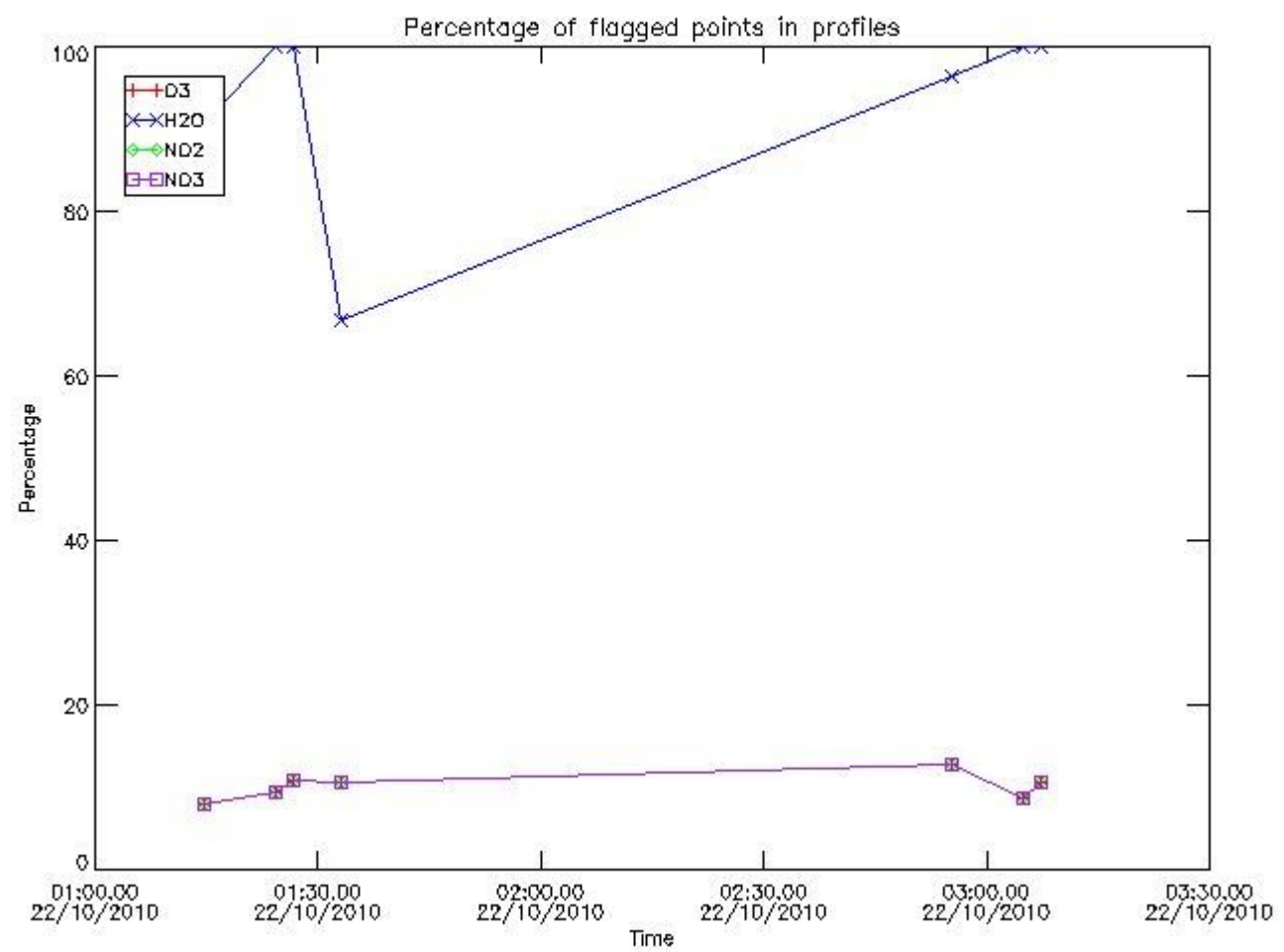
## 2. Summary of processed GOM\_NL\_\_2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20101022_000339_000000452094_00045_45189_1357.N1	22-OCT-2010 00:03:39	Straylight	44.500	157	The1Eri	2.9060	9300.0	89	45189	No
2	GOM_NL__2PRFIN20101022_002406_000000452094_00045_45189_1358.N1	22-OCT-2010 00:24:06	Bright	44.500	105	6Bet Ari	2.6450	8900.0	89	45189	No
3	GOM_NL__2PRFIN20101022_002746_000000402094_00045_45189_1359.N1	22-OCT-2010 00:27:46	Bright	39.500	53	43Bet And	2.0480	3300.0	79	45189	No
4	GOM_NL__2PRFIN20101022_003052_000000432094_00045_45189_1360.N1	22-OCT-2010 00:30:52	Bright	42.500	73	57Gam1And	2.2600	13100.	85	45189	No
5	GOM_NL__2PRFIN20101022_003313_000000492094_00045_45189_1361.N1	22-OCT-2010 00:33:13	Bright	48.500	79	26Bet Per	2.3100	13100.	97	45189	No
6	GOM_NL__2PRFIN20101022_003555_000000452094_00045_45189_1362.N1	22-OCT-2010 00:35:55	Bright	44.500	160	23Gam Per	2.9300	4700.0	89	45189	No
7	GOM_NL__2PRFIN20101022_010312_000000452094_00045_45189_1363.N1	22-OCT-2010 01:03:12	Bright	45.000	166	17Eps Leo	2.9800	6000.0	90	45189	No
8	GOM_NL__2PRFIN20101022_010637_000000442094_00045_45189_1364.N1	22-OCT-2010 01:06:37	Bright	44.000	22	32Alp Leo	1.3600	15200.	88	45189	No
9	GOM_NL__2PRFIN20101022_011435_000000642094_00045_45189_1365.N1	22-OCT-2010 01:14:35	Dark	63.500	48	30Alp Hya	1.9770	4100.0	127	45189	No
10	GOM_NL__2PRFIN20101022_012425_000000602094_00045_45189_1366.N1	22-OCT-2010 01:24:25	Dark	59.500	132	15Rho Pup	2.8030	6900.0	119	45189	No
11	GOM_NL__2PRFIN20101022_012646_000000482094_00046_45190_1363.N1	22-OCT-2010 01:26:46	Dark	47.500	70	Zet Pup	2.2460	39000.	95	45190	No
12	GOM_NL__2PRFIN20101022_013258_000000492094_00046_45190_1364.N1	22-OCT-2010 01:32:58	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	45190	No
13	GOM_NL__2PRFIN20101022_014415_000000432094_00046_45190_1365.N1	22-OCT-2010 01:44:15	Straylight	43.000	157	The1Eri	2.9060	9300.0	86	45190	No
14	GOM_NL__2PRFIN20101022_020442_000000442094_00046_45190_1366.N1	22-OCT-2010 02:04:42	Bright	44.000	105	6Bet Ari	2.6450	8900.0	88	45190	No
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17	GOM_NL__2PRFIN20101022_021348_000000532094_00046_45190_1369.N1	22-OCT-2010 02:13:48	Bright	52.500	79	26Bet Per	2.3100	13100.	105	45190	No
18	GOM_NL__2PRFIN20101022_021631_000000462094_00046_45190_1370.N1	22-OCT-2010 02:16:31	Bright	45.500	160	23Gam Per	2.9300	4700.0	91	45190	No
19	GOM_NL__2PRFIN20101022_024348_000000452094_00046_45190_1371.N1	22-OCT-2010 02:43:48	Bright	45.000	166	17Eps Leo	2.9800	6000.0	90	45190	No
20	GOM_NL__2PRFIN20101022_024714_000000442094_00046_45190_1372.N1	22-OCT-2010 02:47:14	Bright	43.500	22	32Alp Leo	1.3600	15200.	87	45190	No
21	GOM_NL__2PRFIN20101022_025512_000000562094_00046_45190_1373.N1	22-OCT-2010 02:55:12	Dark	56.000	48	30Alp Hya	1.9770	4100.0	112	45190	No
22	GOM_NL__2PRFIN20101022_030502_000000592094_00046_45190_1374.N1	22-OCT-2010 03:05:02	Dark	59.000	132	15Rho Pup	2.8030	6900.0	118	45190	No
23	GOM_NL__2PRFIN20101022_030723_000000482094_00047_45191_1374.N1	22-OCT-2010 03:07:23	Dark	47.500	70	Zet Pup	2.2460	39000.	95	45191	No

## 3. Quality information per product

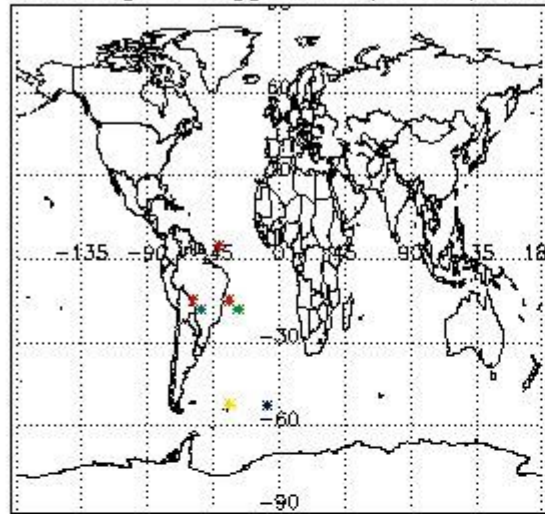
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

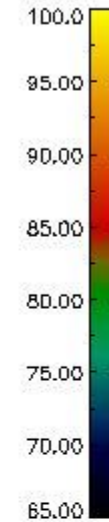
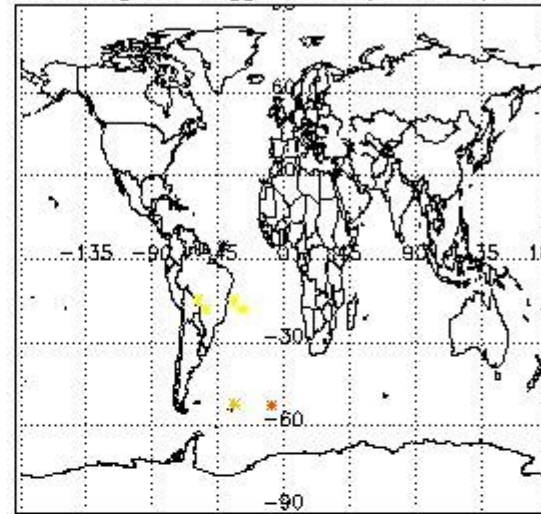


*3.2 Plot quality information per product (world map)*

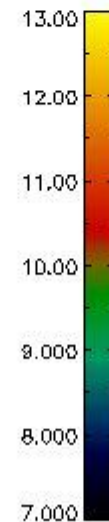
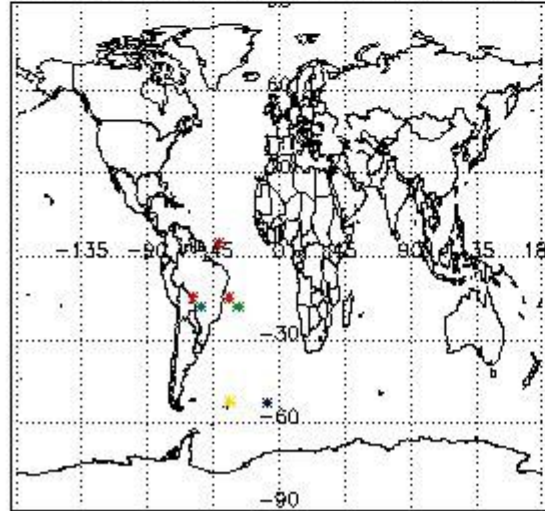
Percentage of flagged data per O3 profile



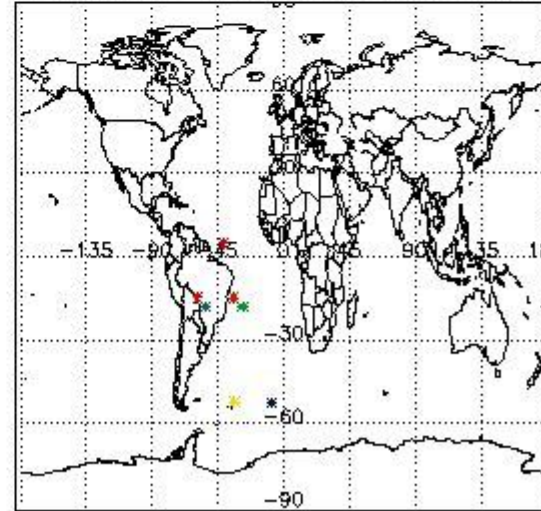
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

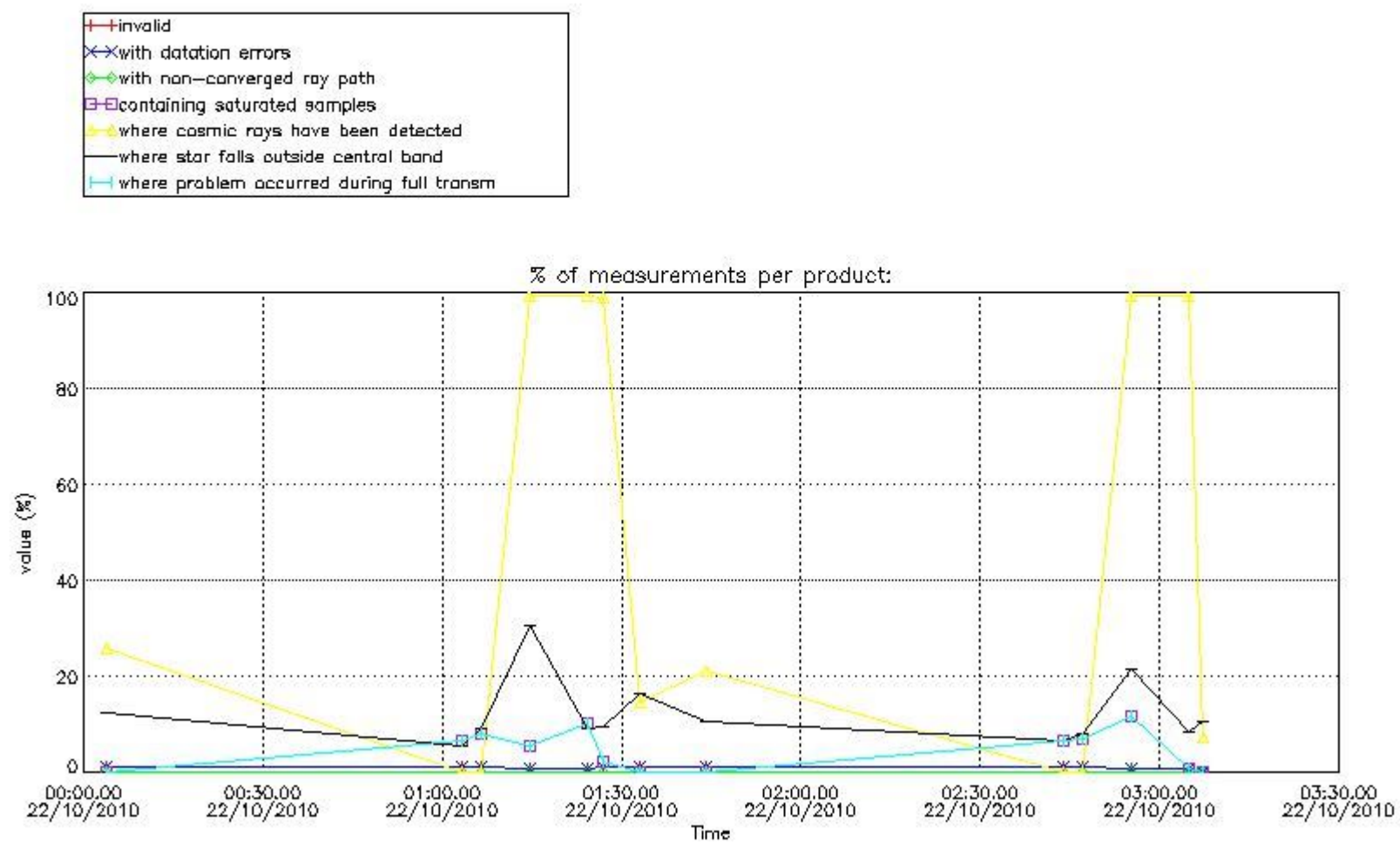


#### 4. Level 1 quality information per product

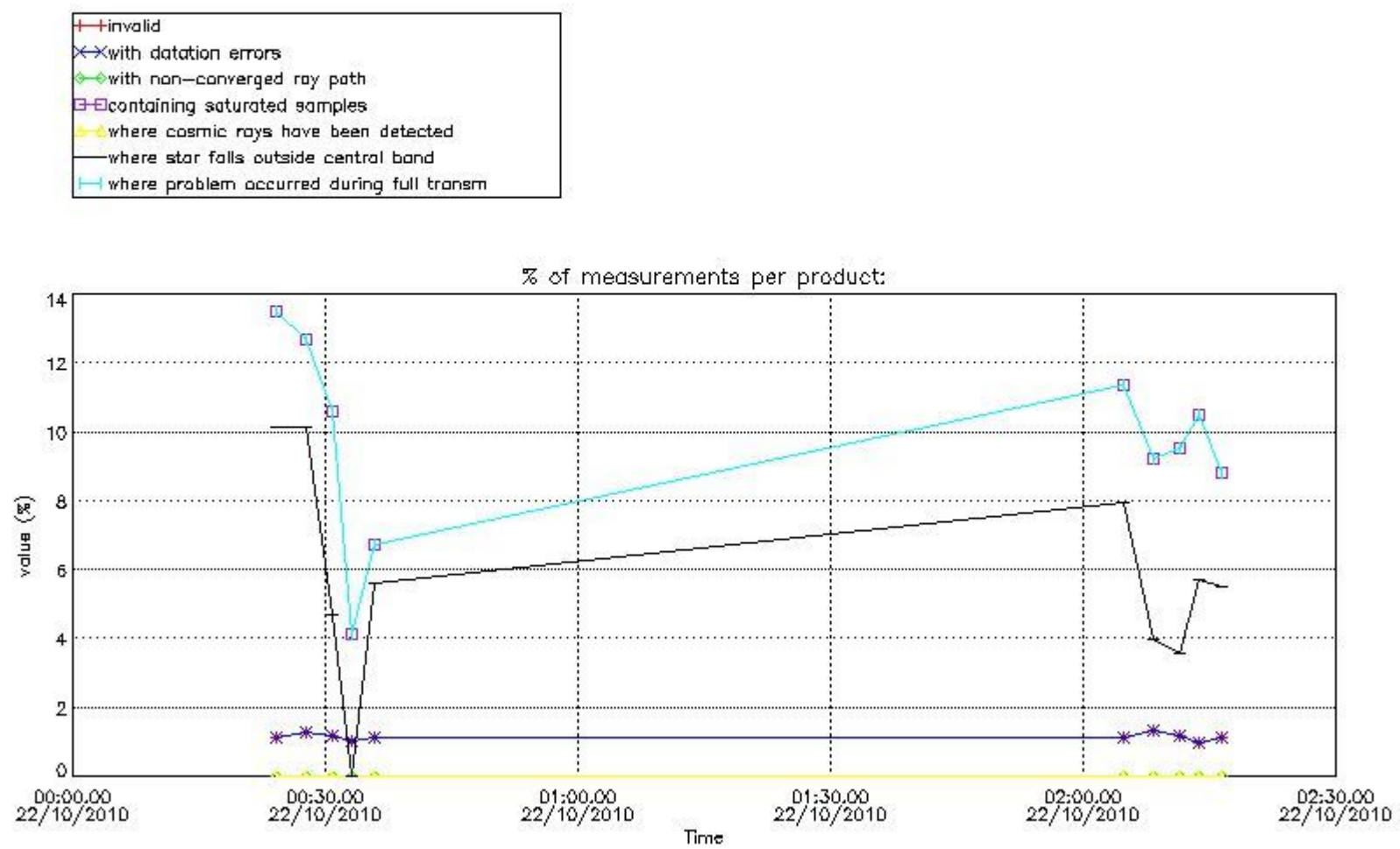
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



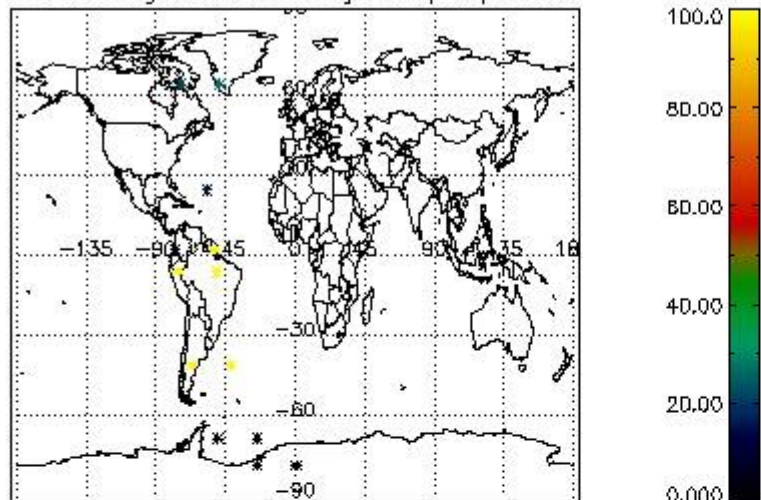
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



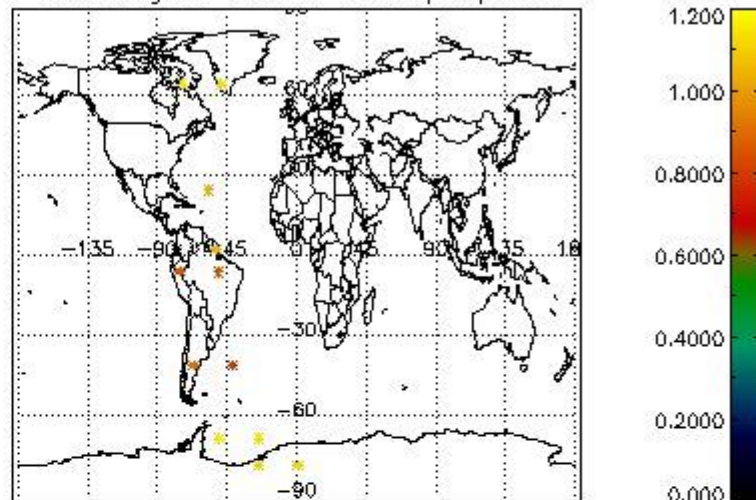
4.2 Plot quality information per product coming from level 1b processing (world map)

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

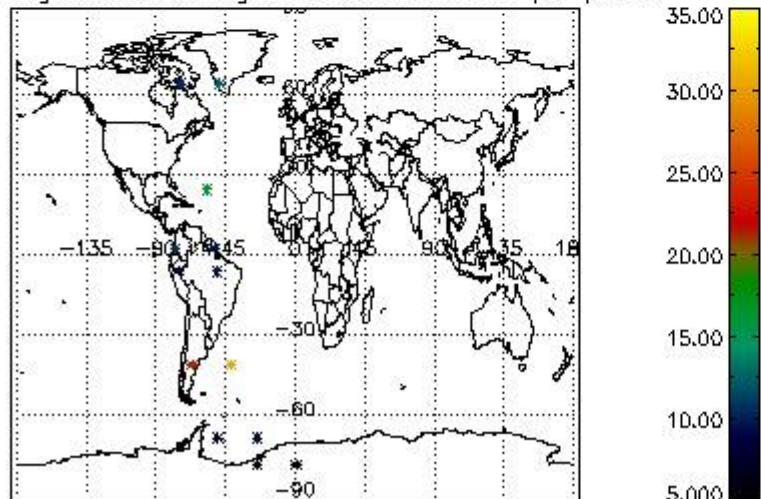
Percentage of cosmic ray hits per profile



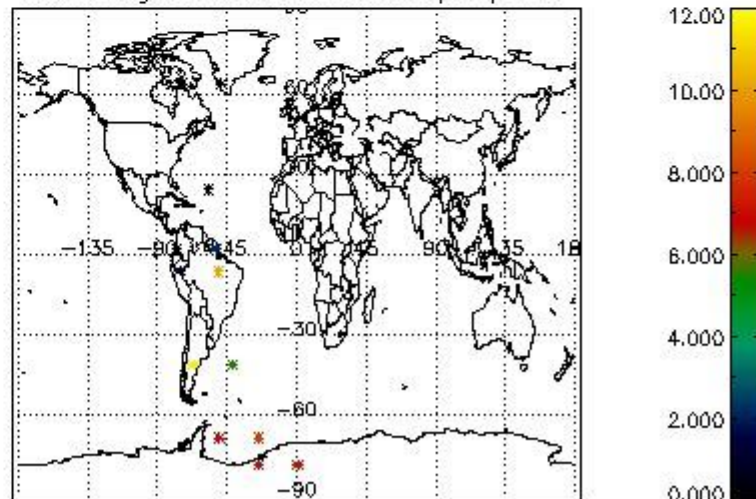
Percentage of datation errors per profile



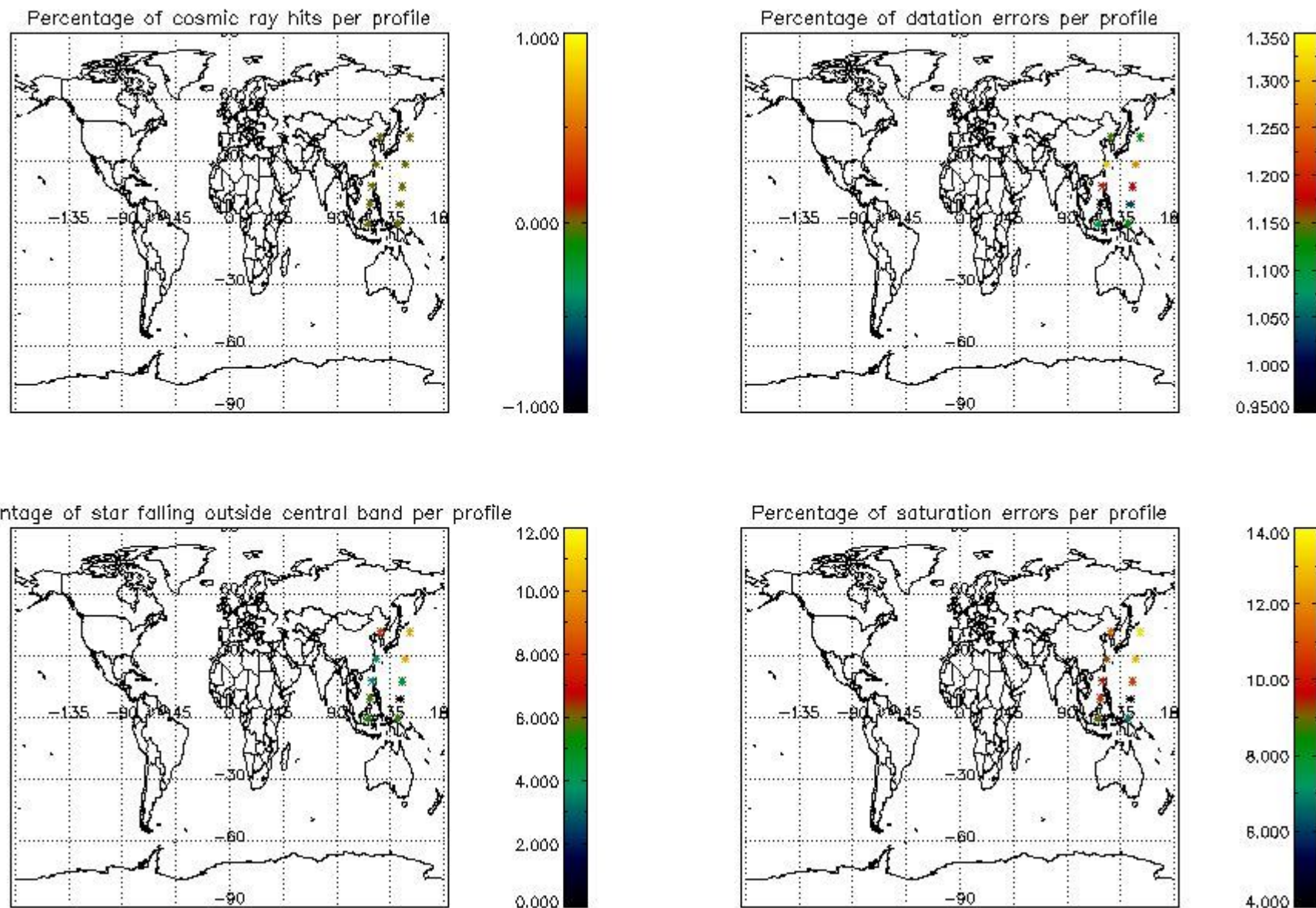
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

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

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

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

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

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

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

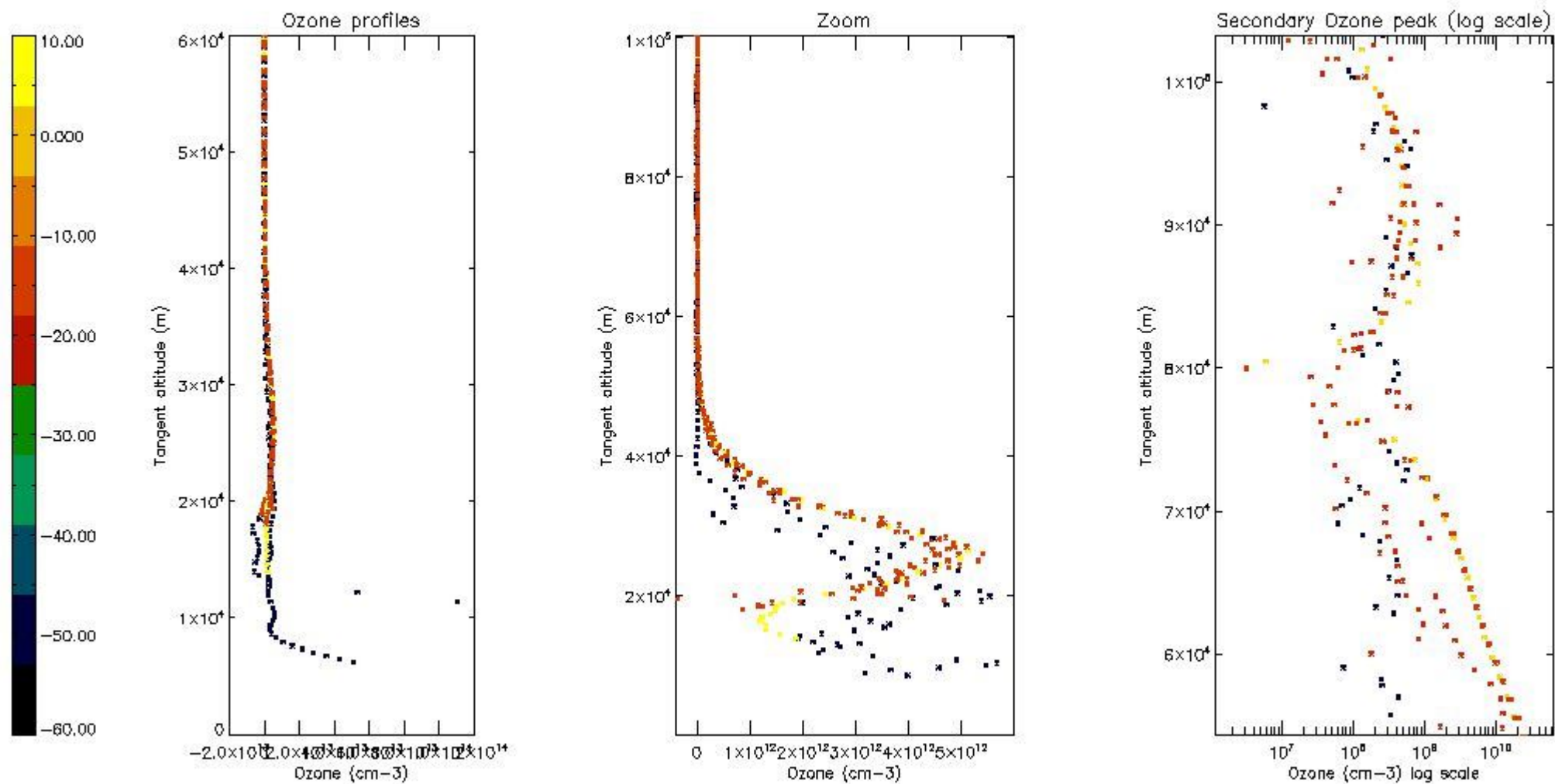
Criteria	% of total production
All STD	36
STD < 20	16



STD < 10	11
STD < 5	7

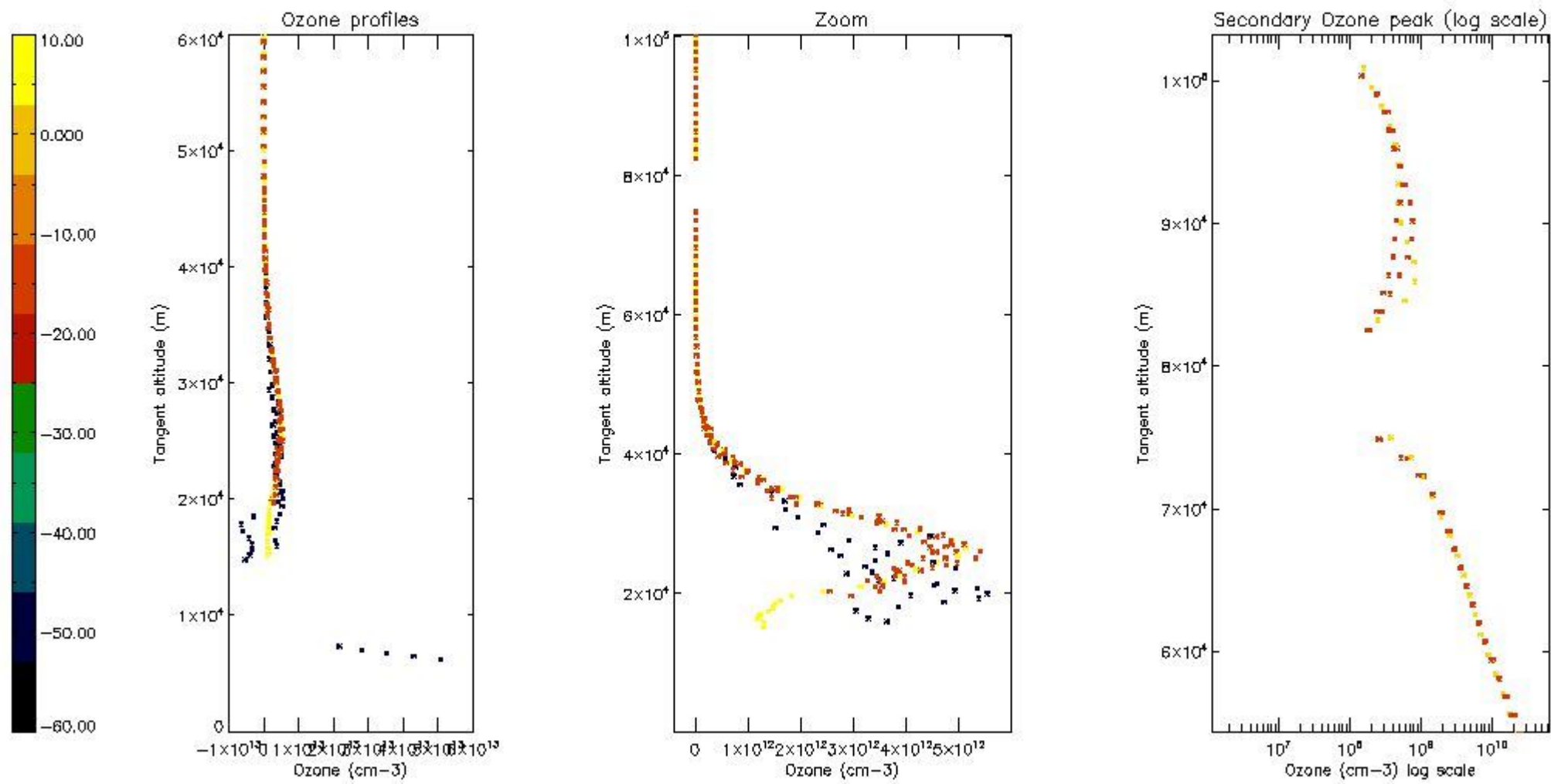
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



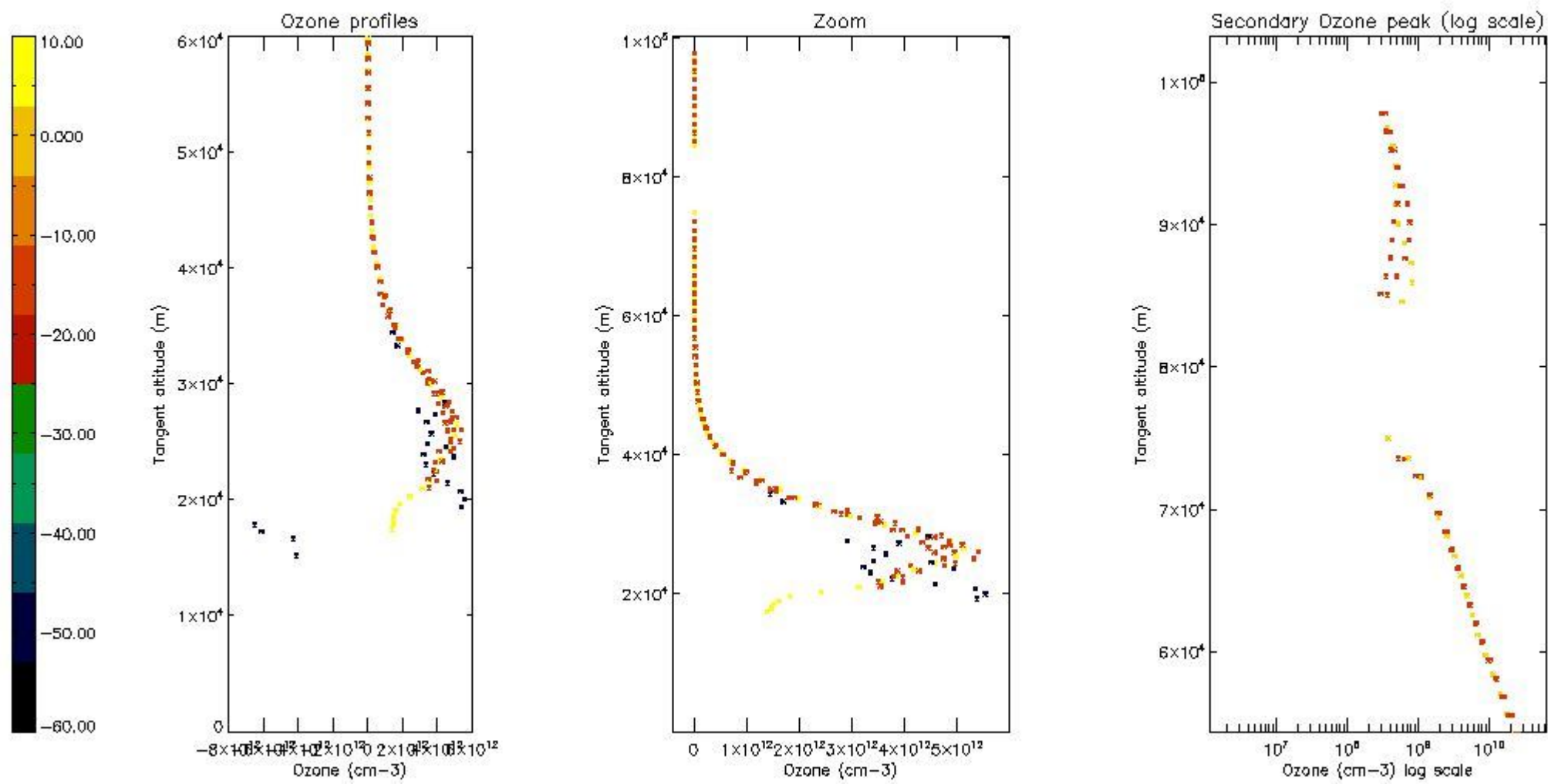
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



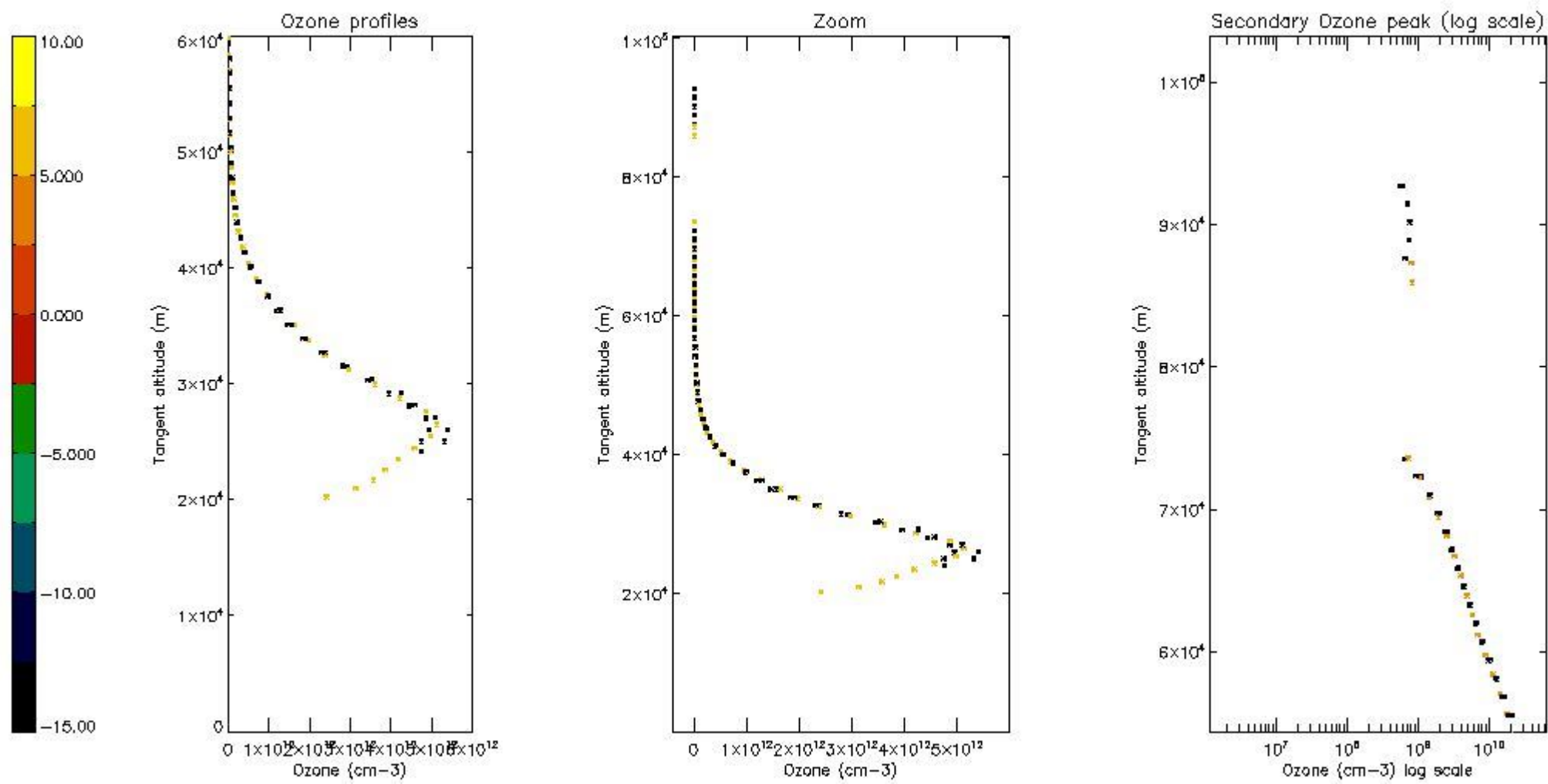
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



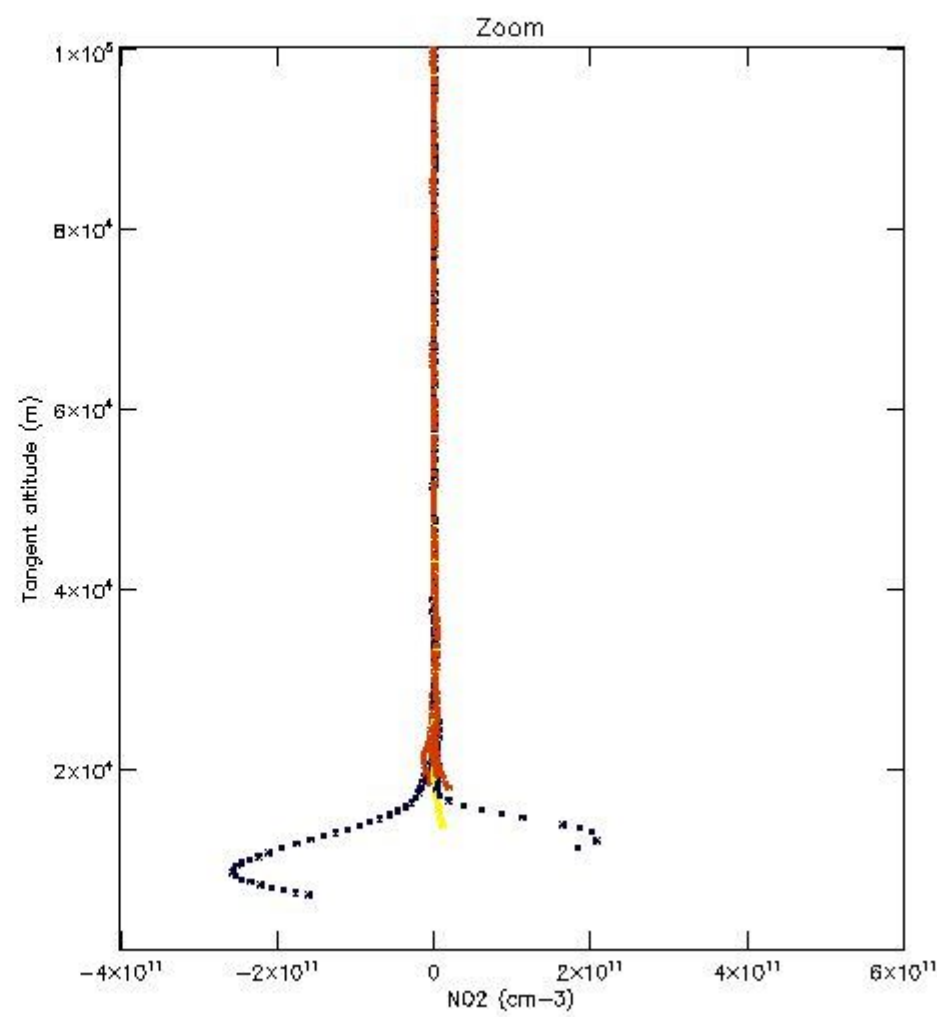
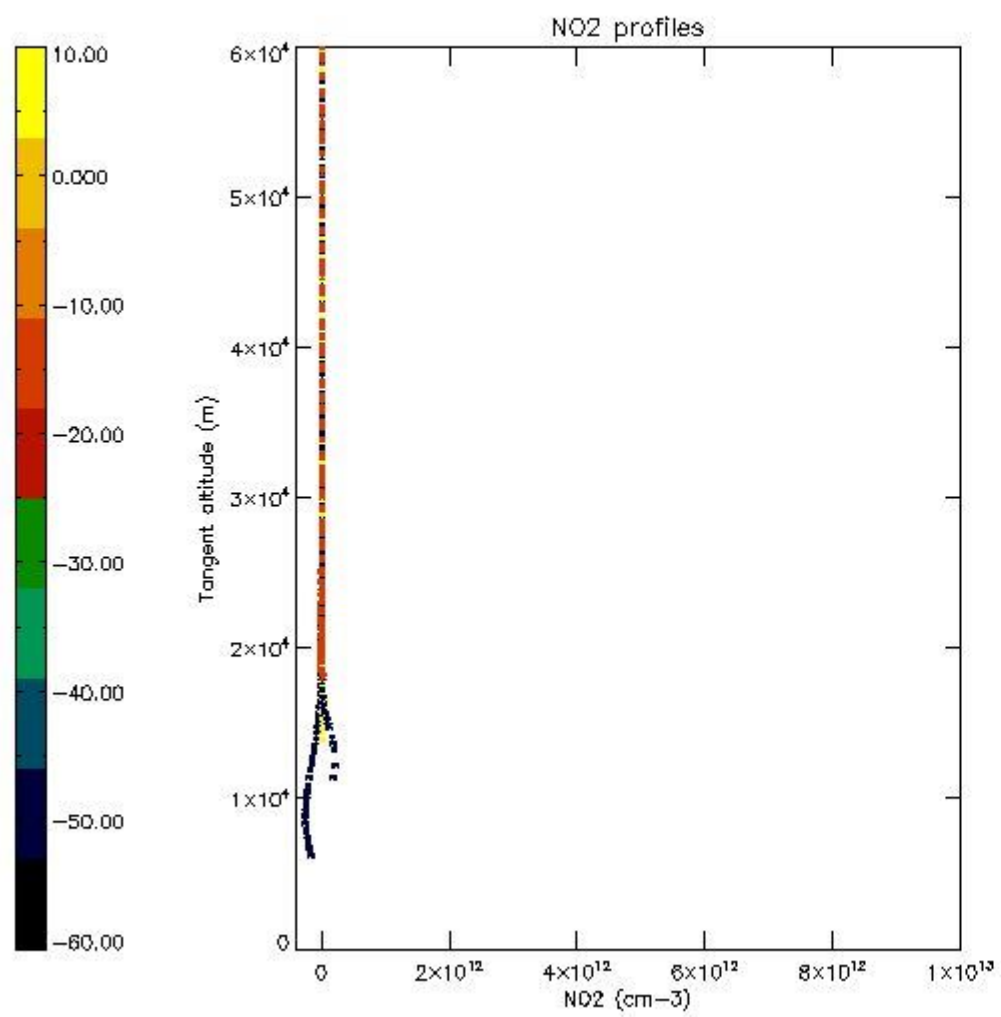
*5.5 Plot ozone profiles where  $STD < 5\%$  (dark without errors)*

The colorbar represents the latitude.



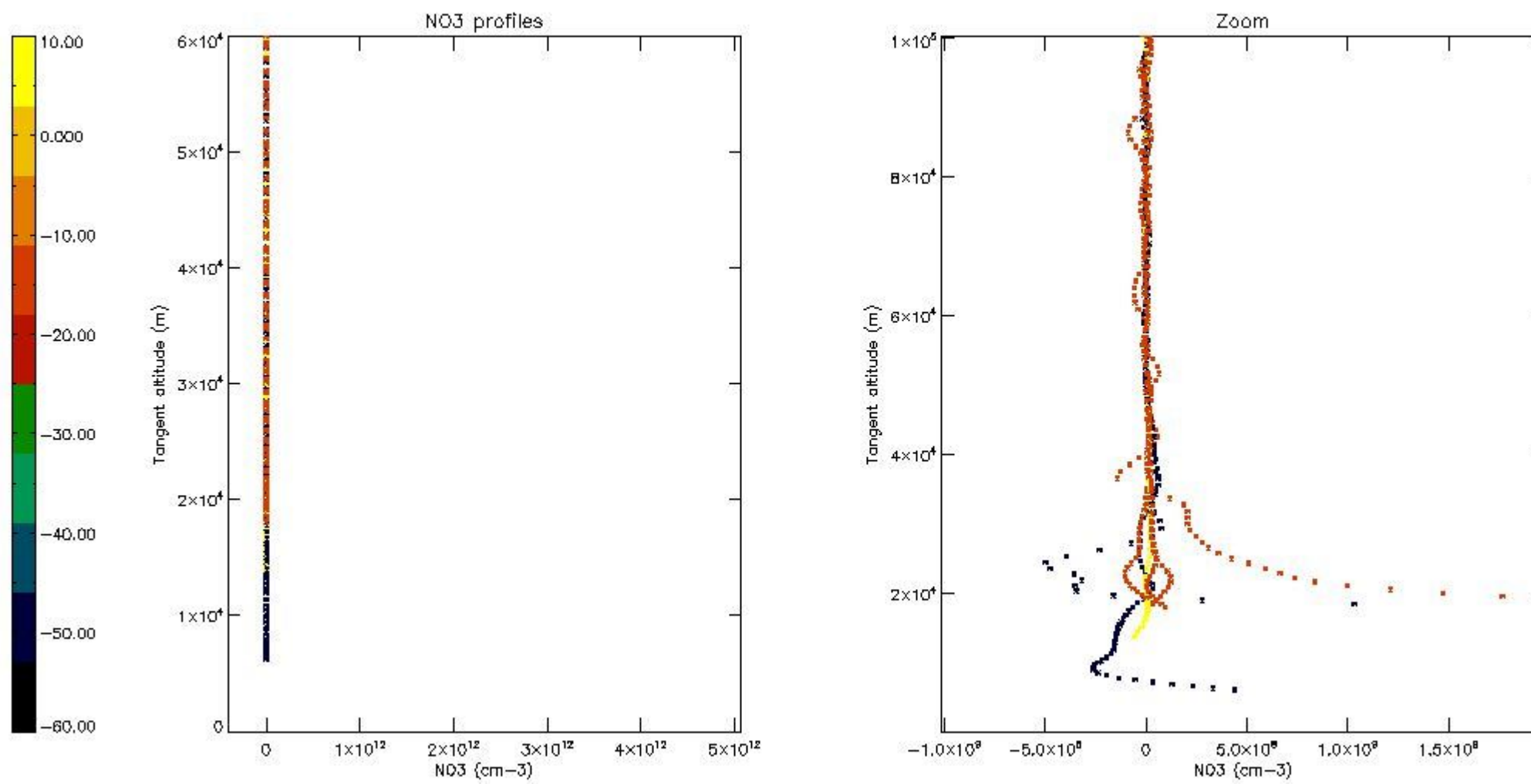
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-OCT-2010 00:03:39
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-OCT-2010 00:03:39
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-OCT-2010 00:03:39

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#### [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](#)

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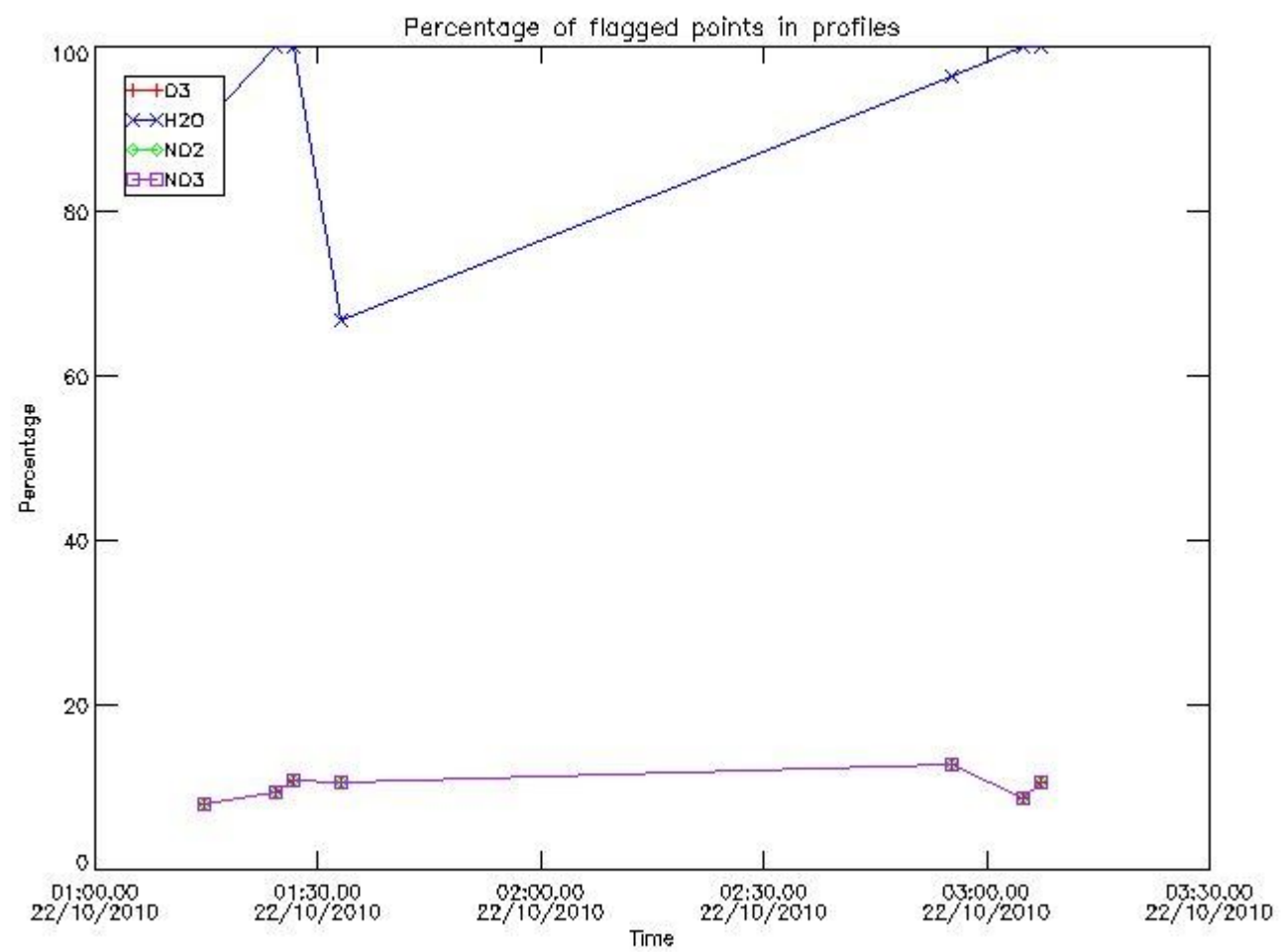
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## 3. Quality information per product

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

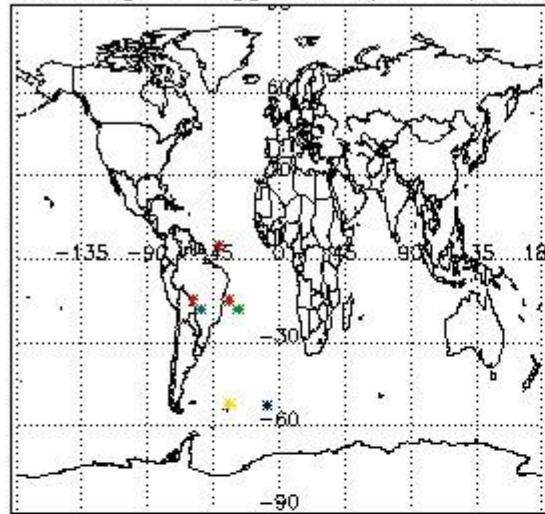
### 3.1 Plot quality information per product (time dependant)



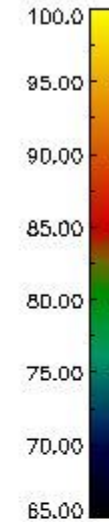
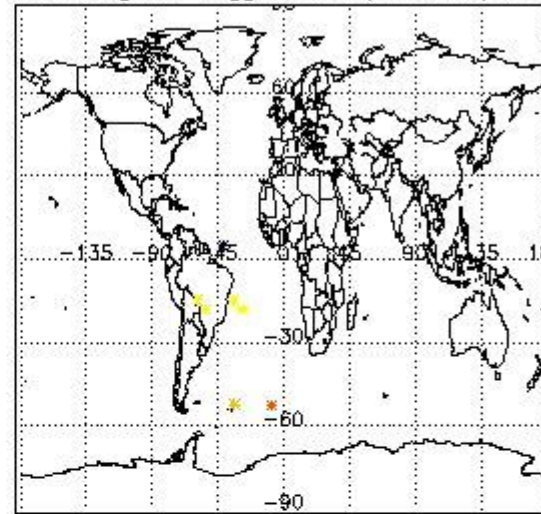


*3.2 Plot quality information per product (world map)*

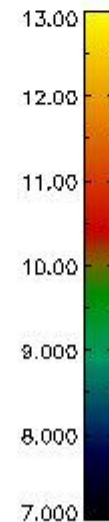
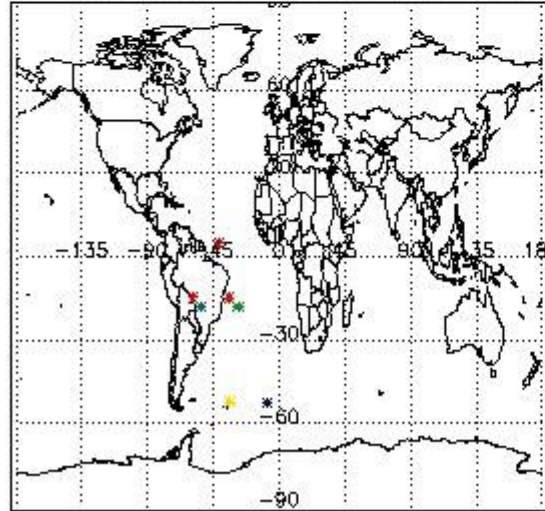
Percentage of flagged data per O3 profile



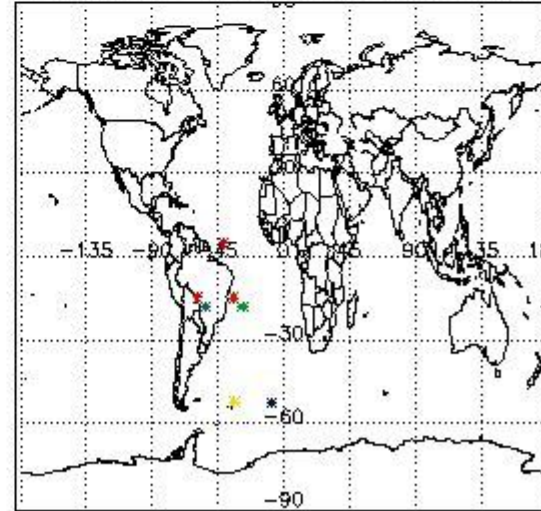
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

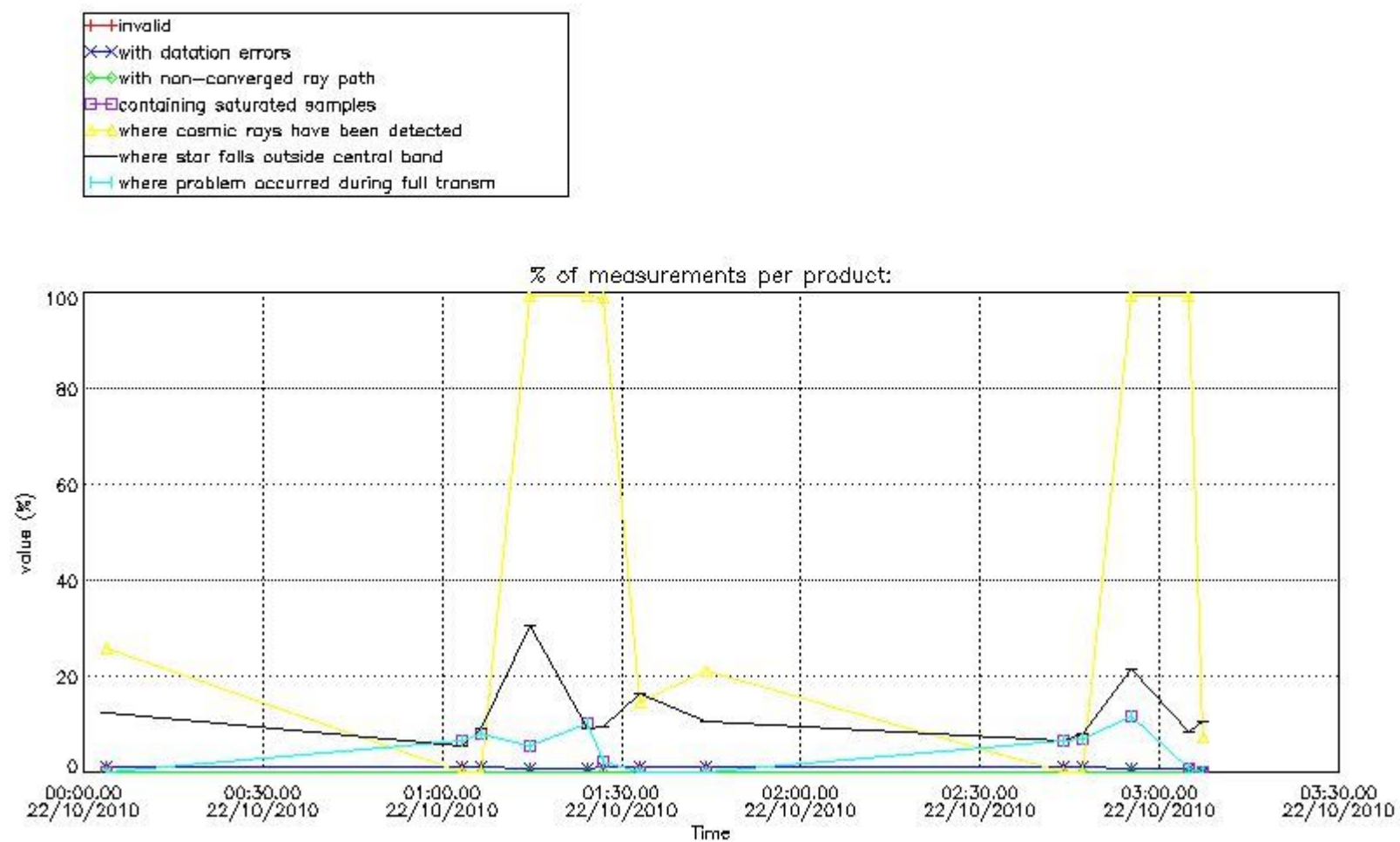


#### 4. Level 1 quality information per product

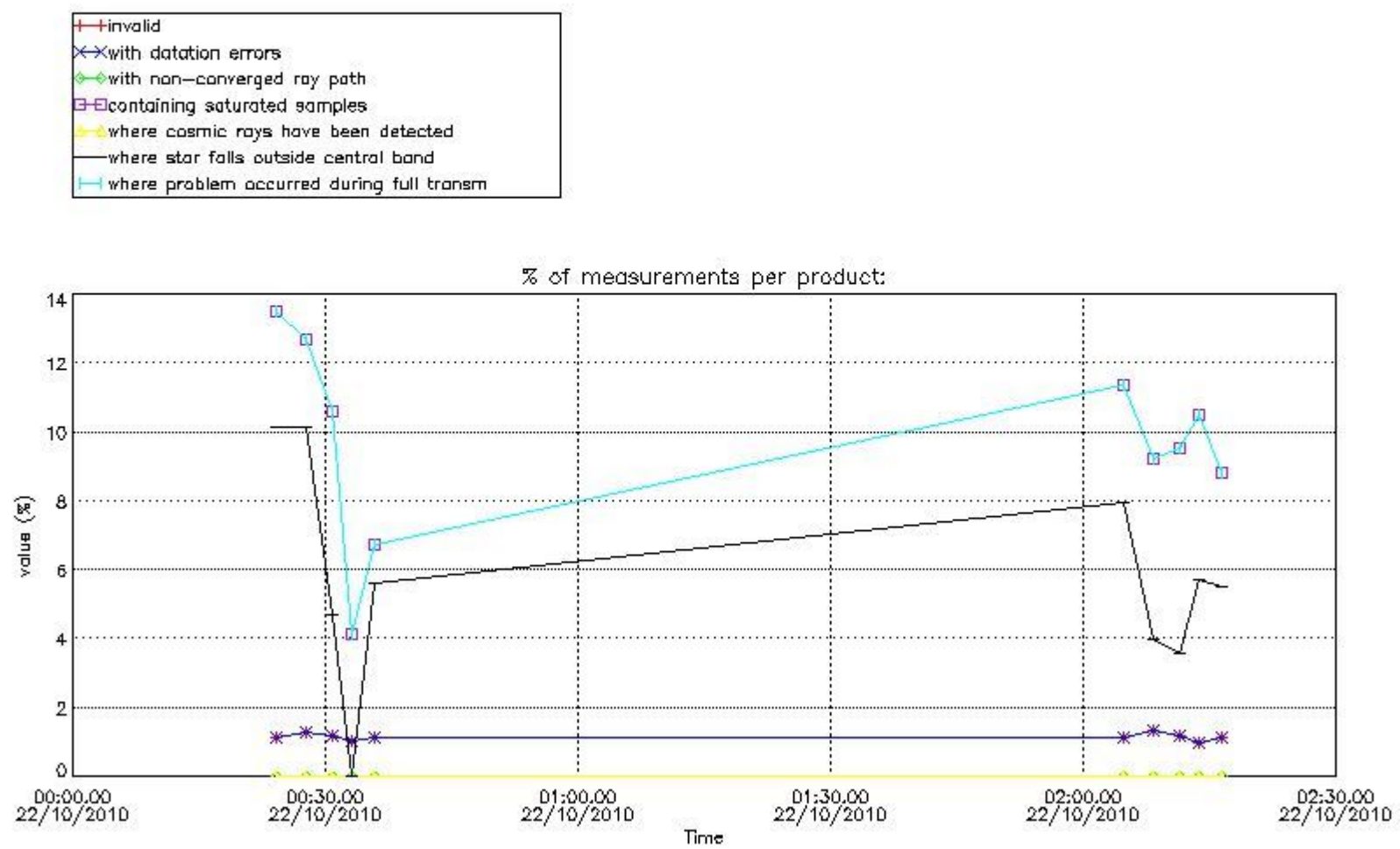
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



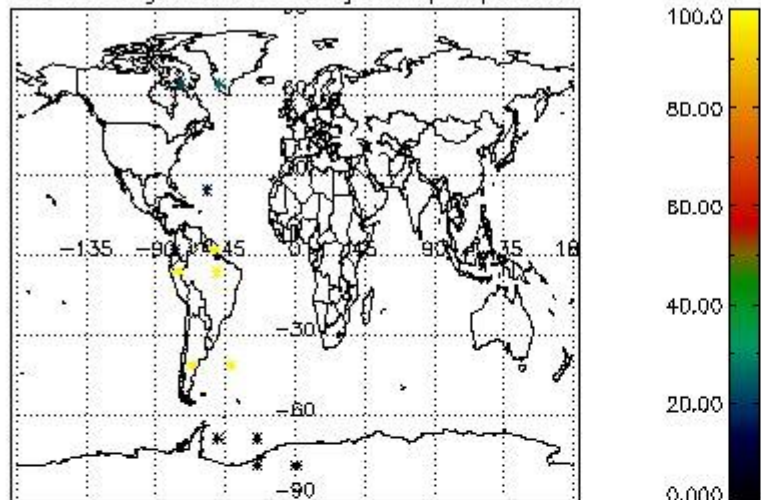
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



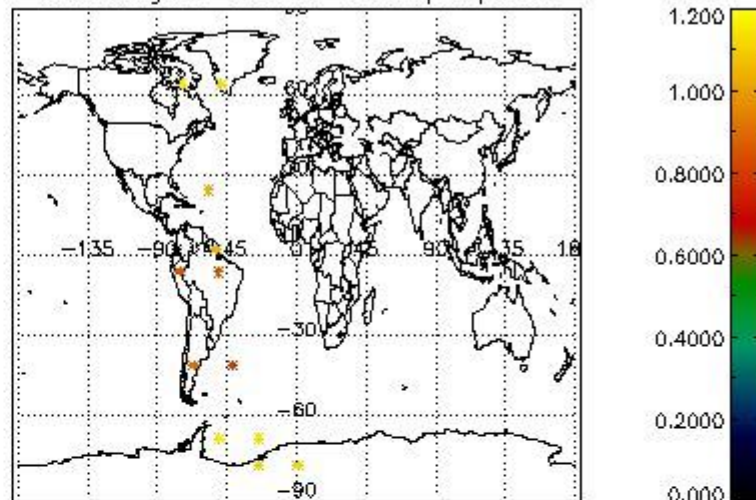
4.2 Plot quality information per product coming from level 1b processing (world map)

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

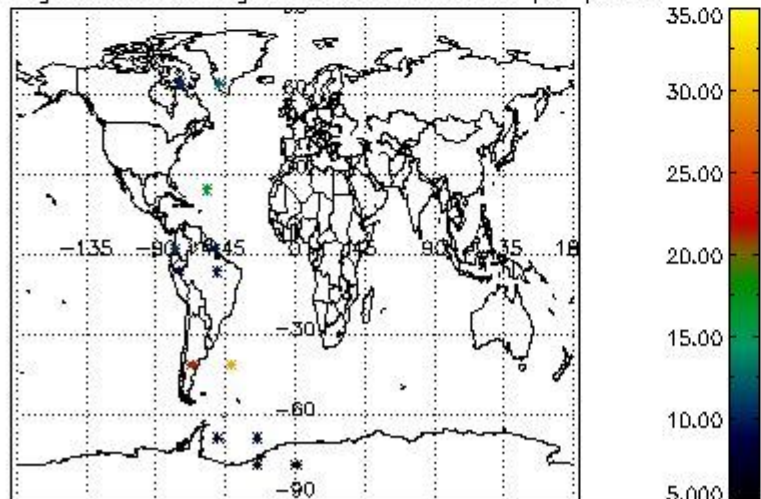
Percentage of cosmic ray hits per profile



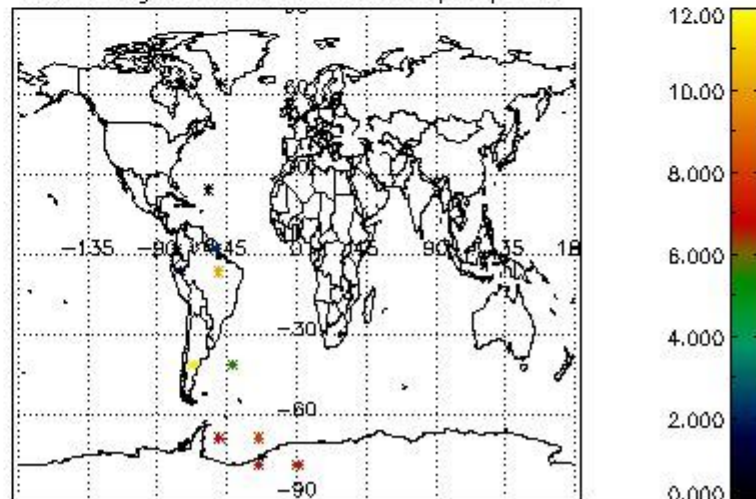
Percentage of datation errors per profile



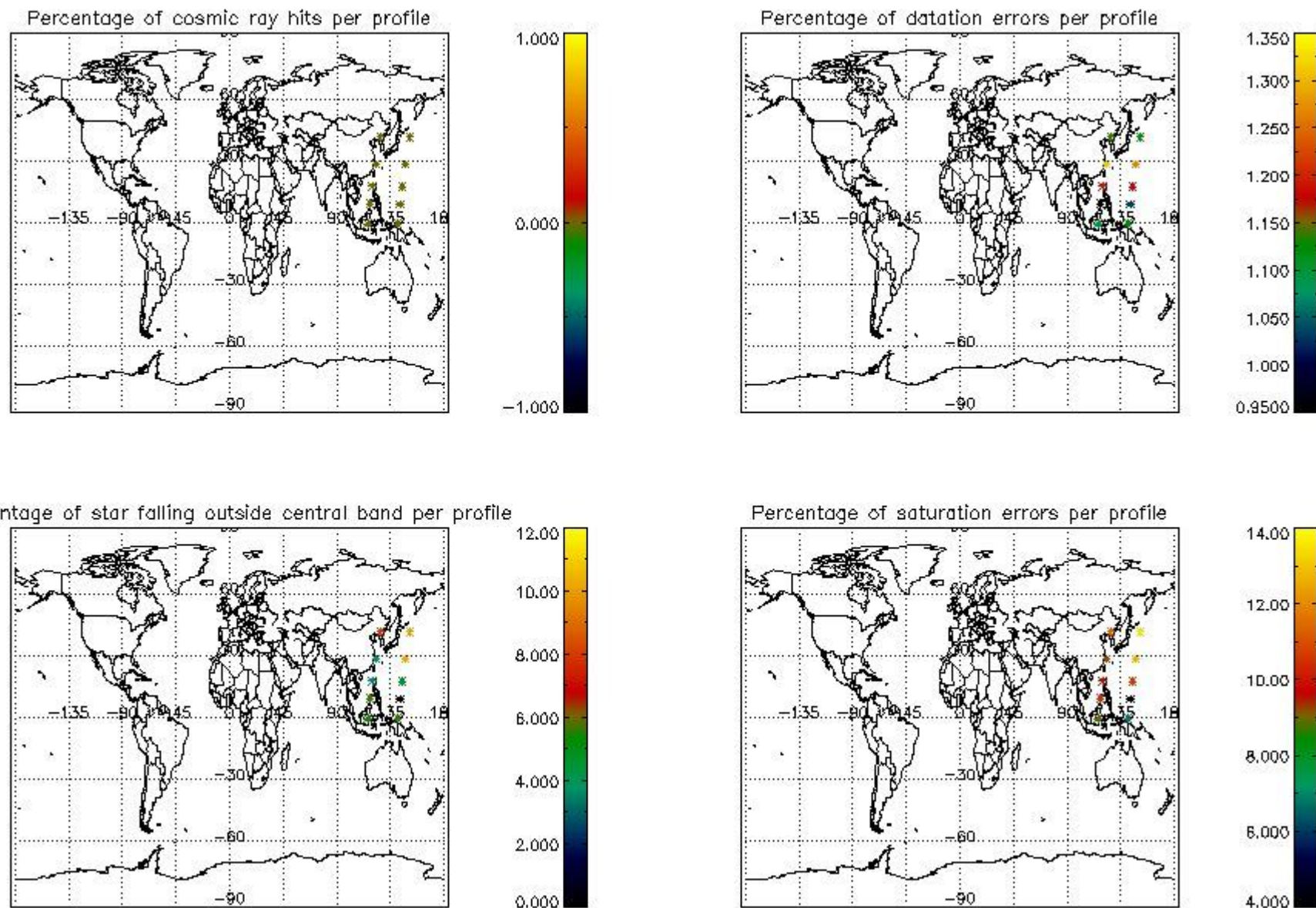
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

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

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

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

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

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

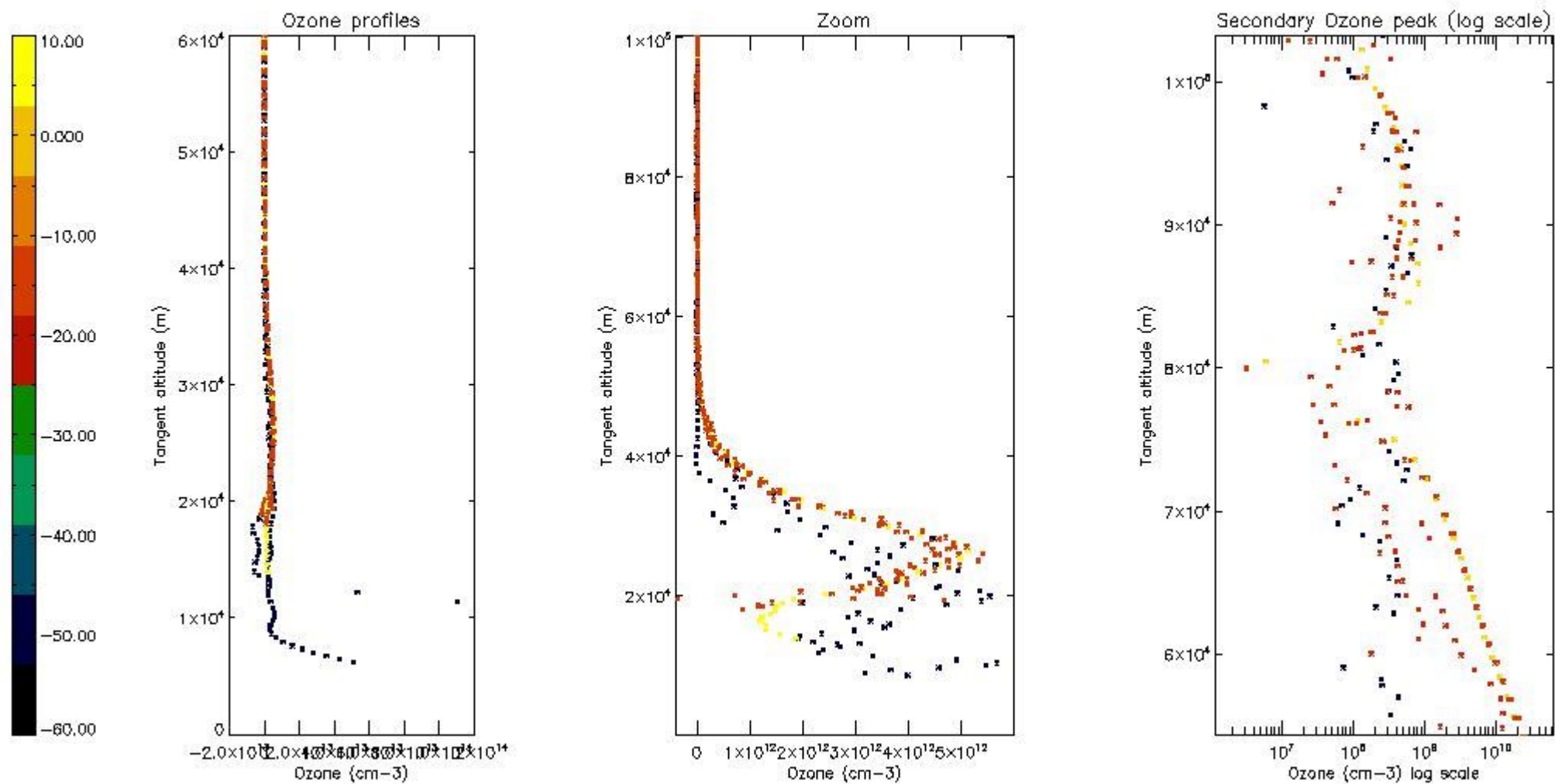
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	36
STD < 20	16

STD < 10	11
STD < 5	7

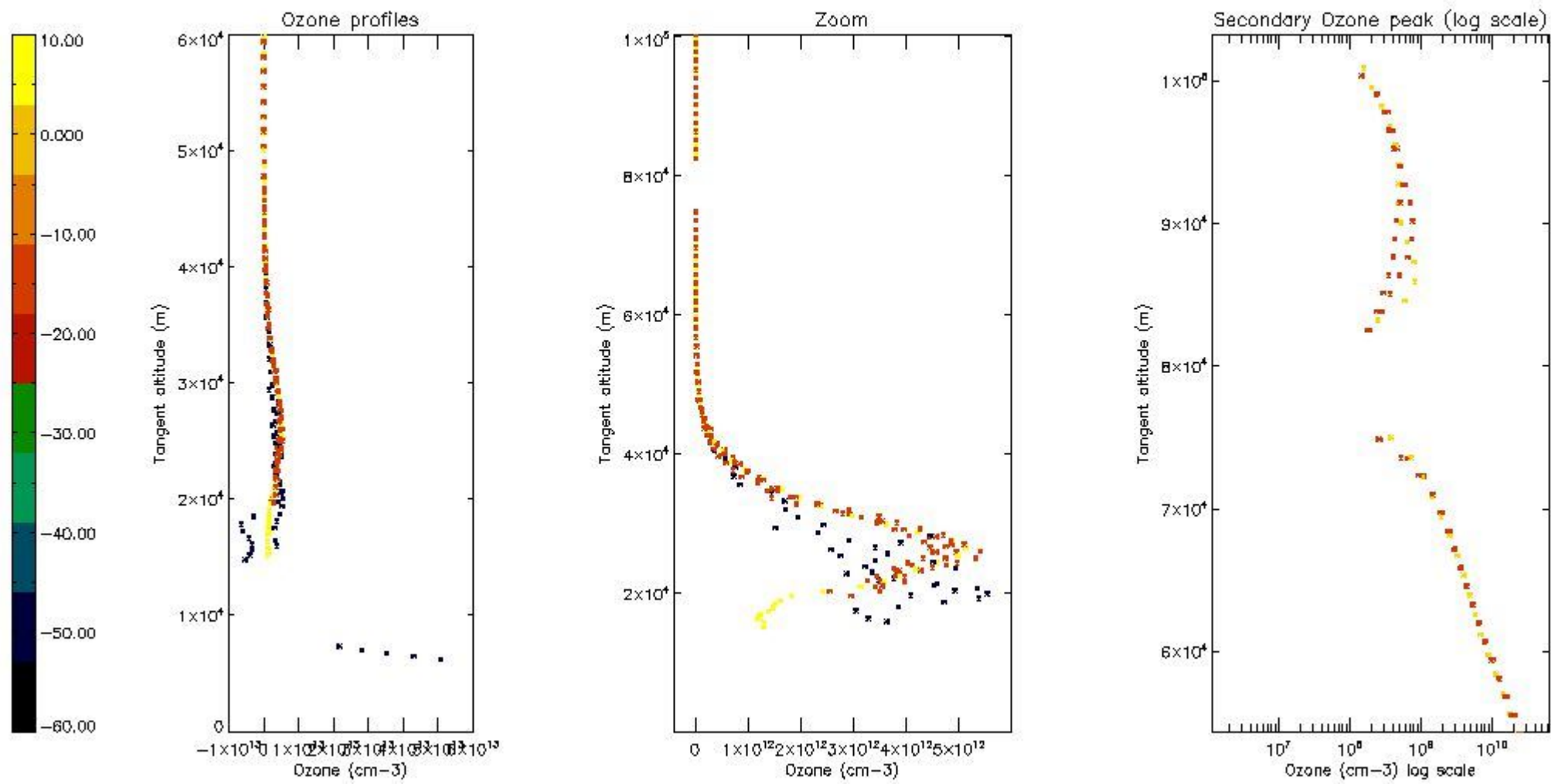
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

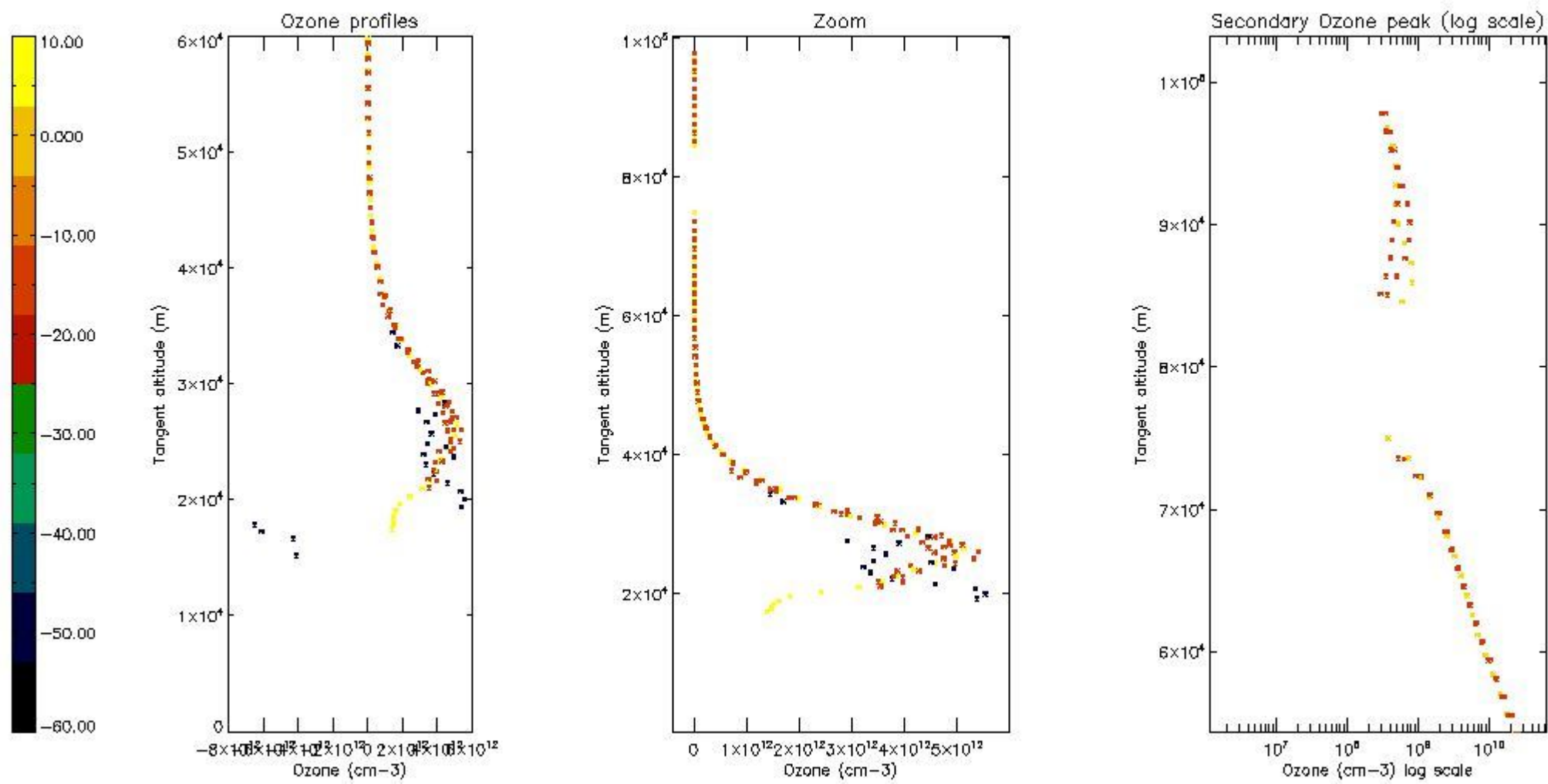
The colorbar represents the latitude.



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

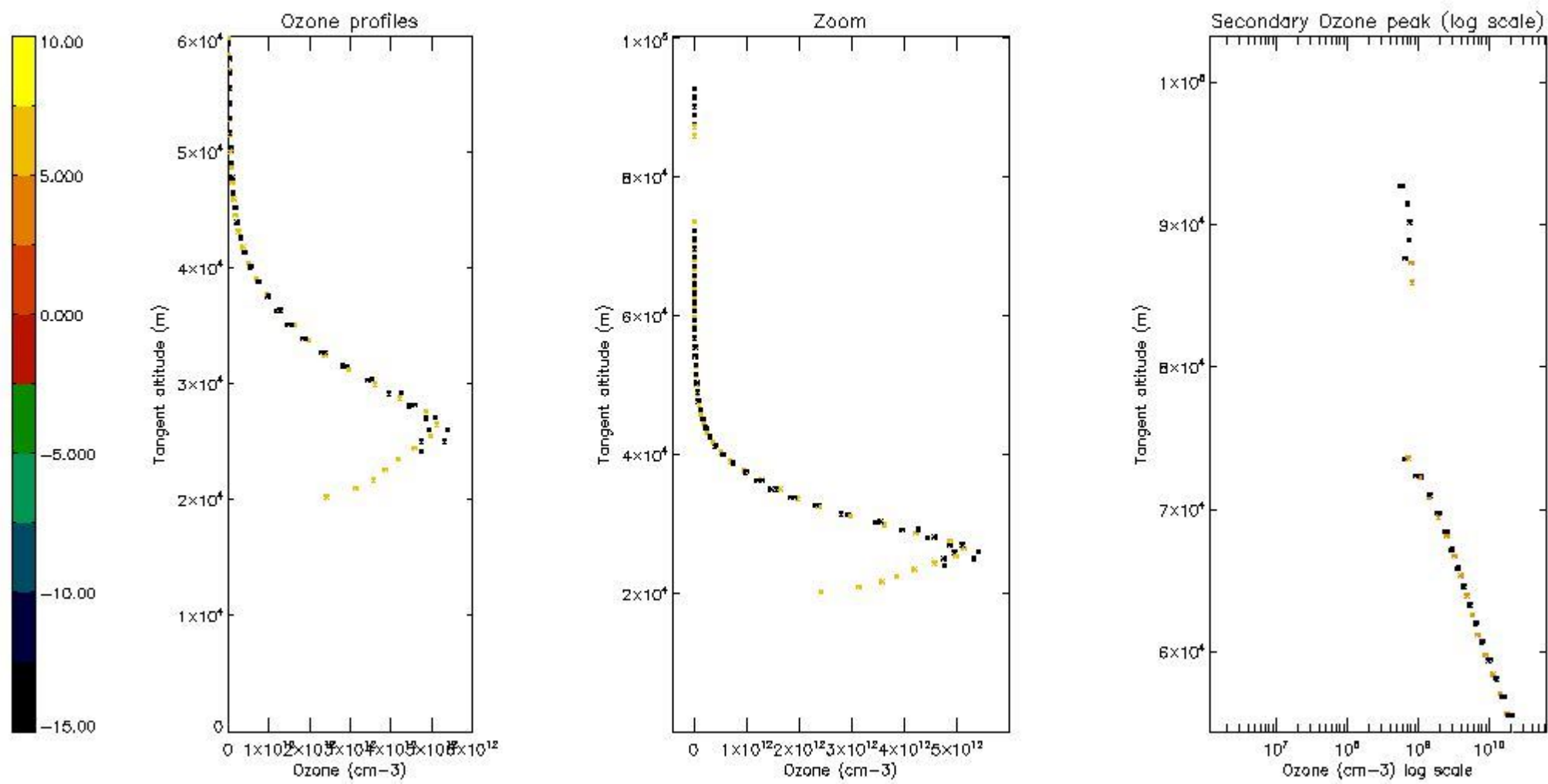
The colorbar represents the latitude.





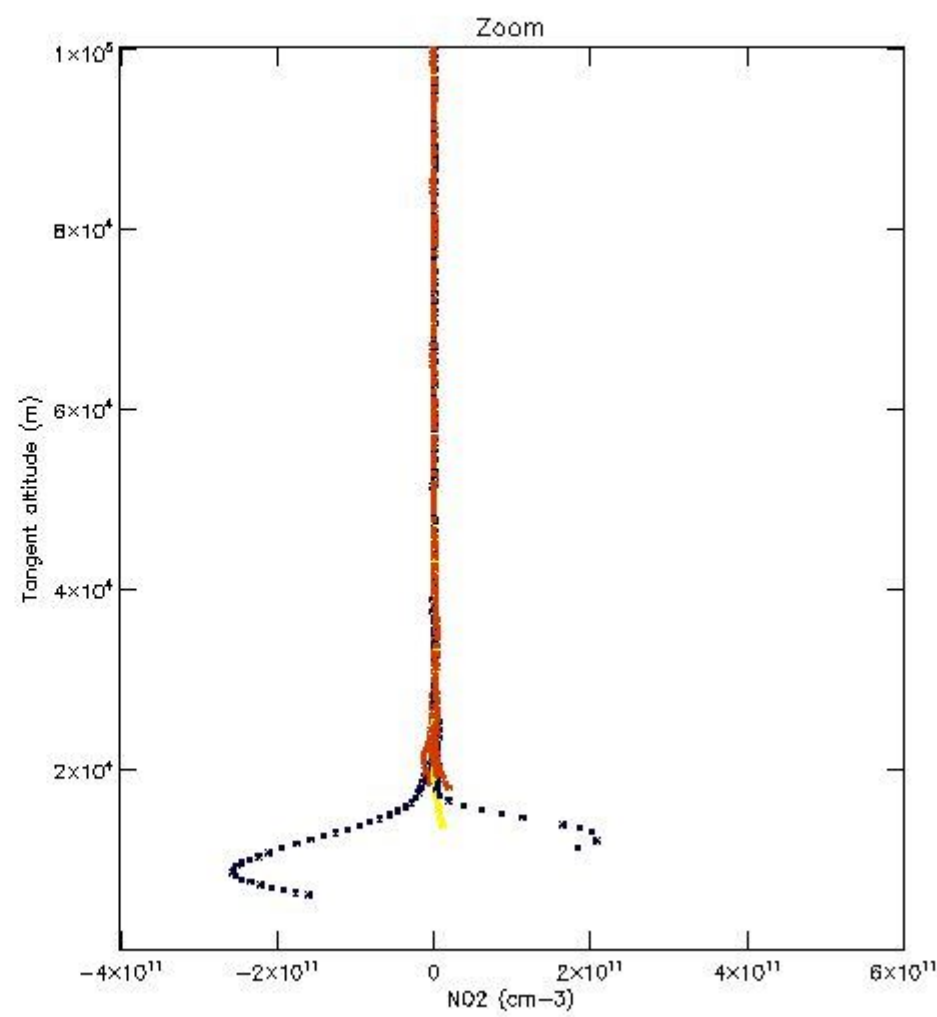
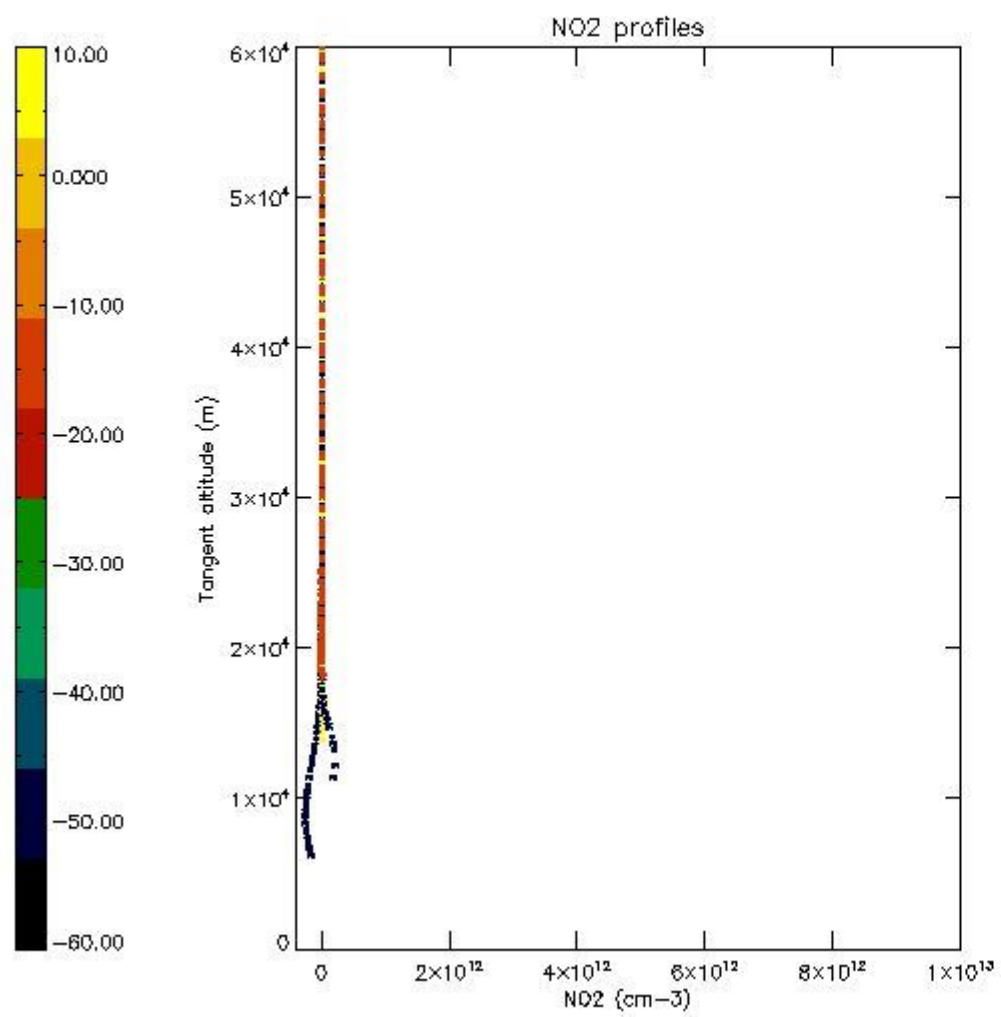
*5.5 Plot ozone profiles where  $STD < 5\%$  (dark without errors)*

The colorbar represents the latitude.



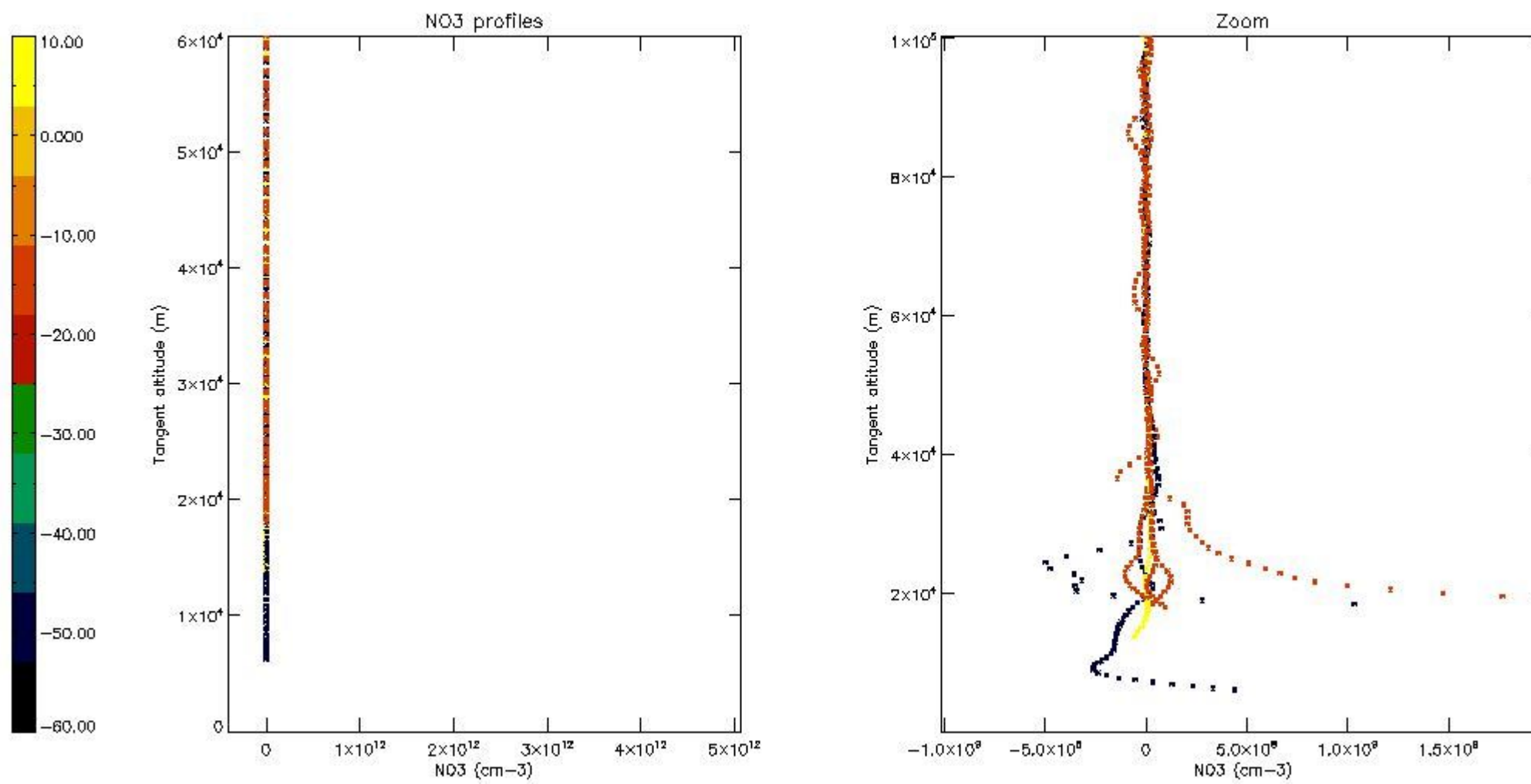
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

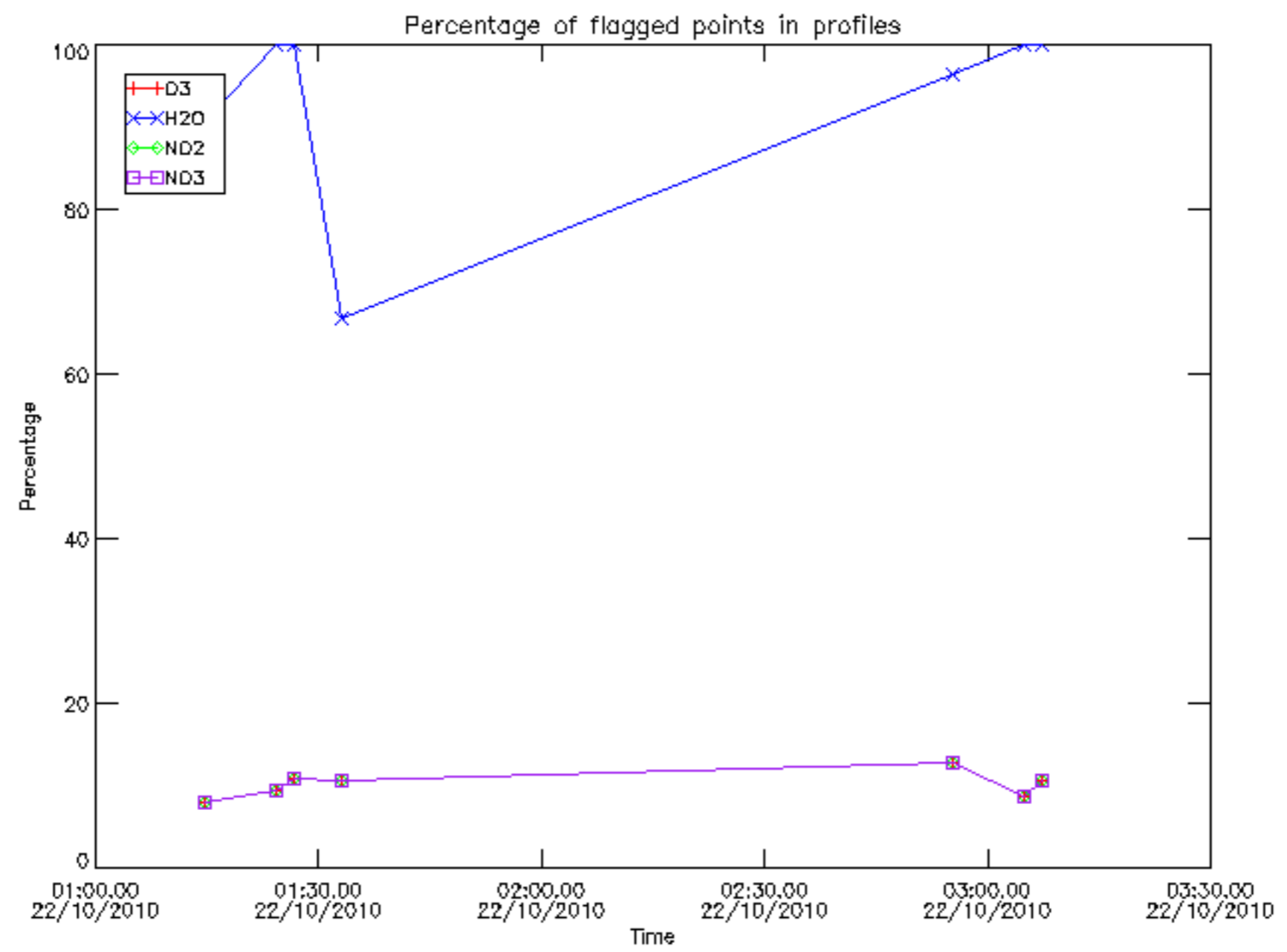
The colorbar represents the latitude.



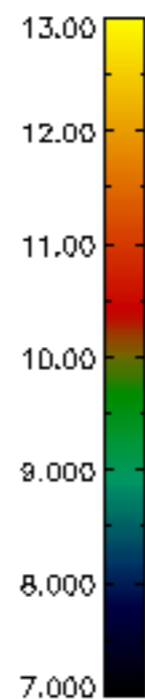
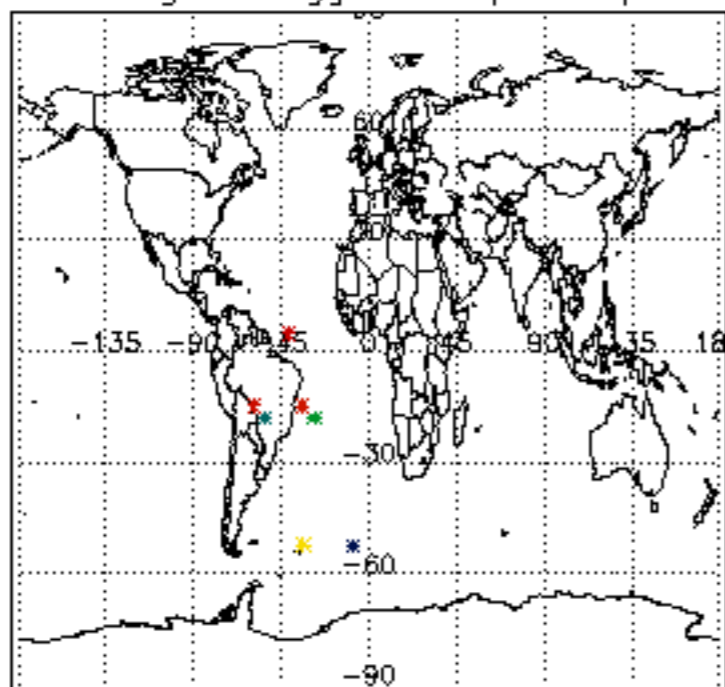
## 6. Auxiliary Data Files used for the production reported in section 2

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

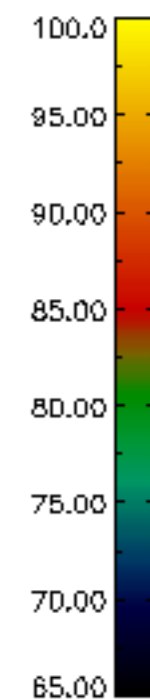
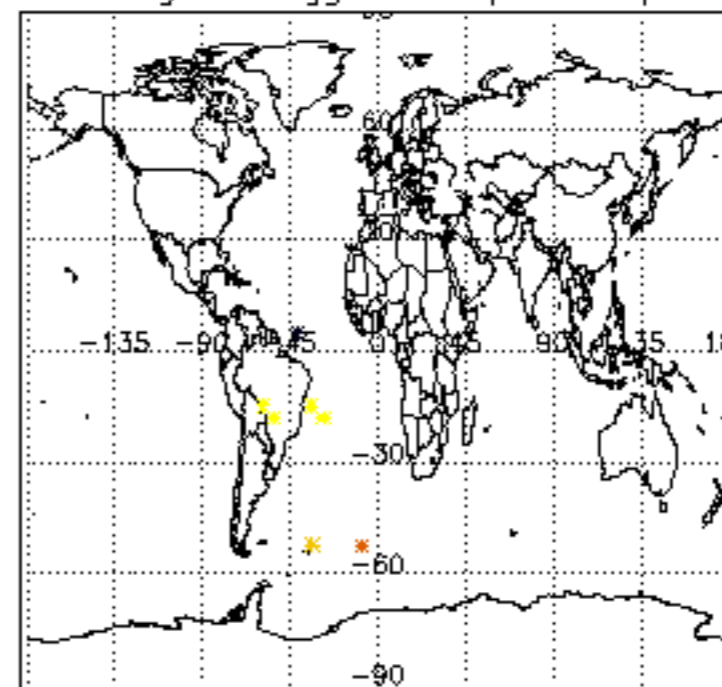
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-OCT-2010 00:03:39
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-OCT-2010 00:03:39
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-OCT-2010 00:03:39



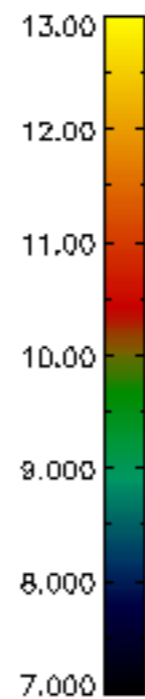
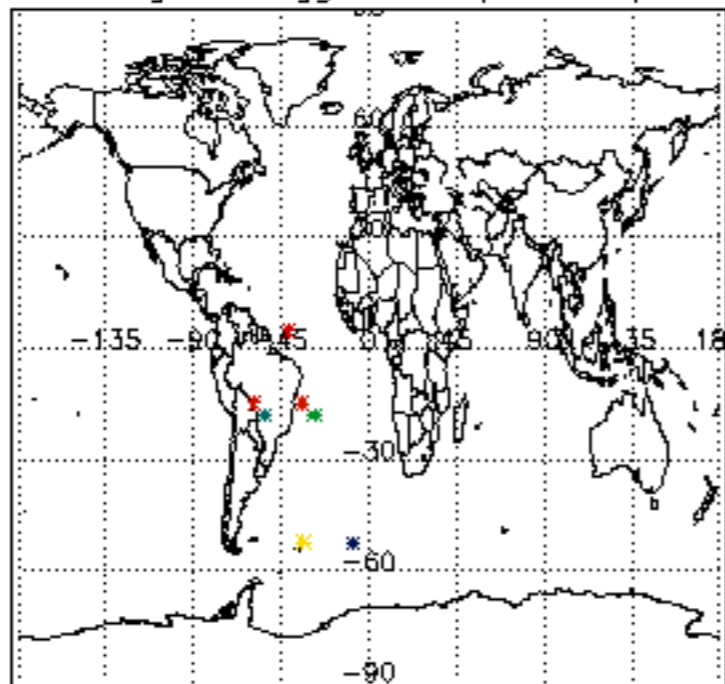
Percentage of flagged data per D3 profile



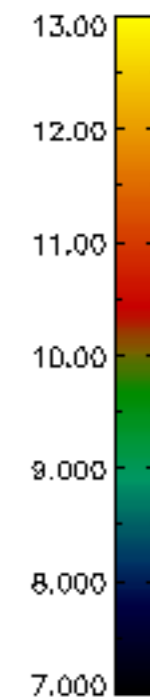
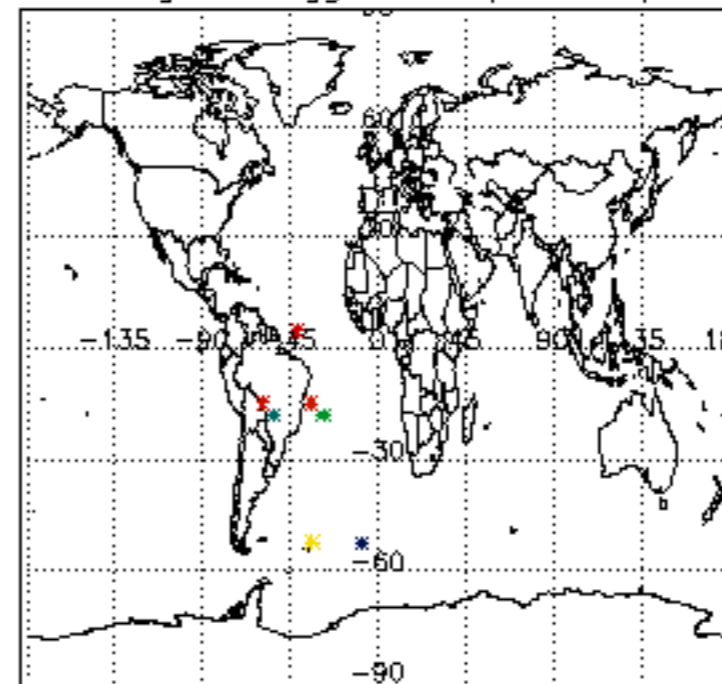
Percentage of flagged data per H2O profile

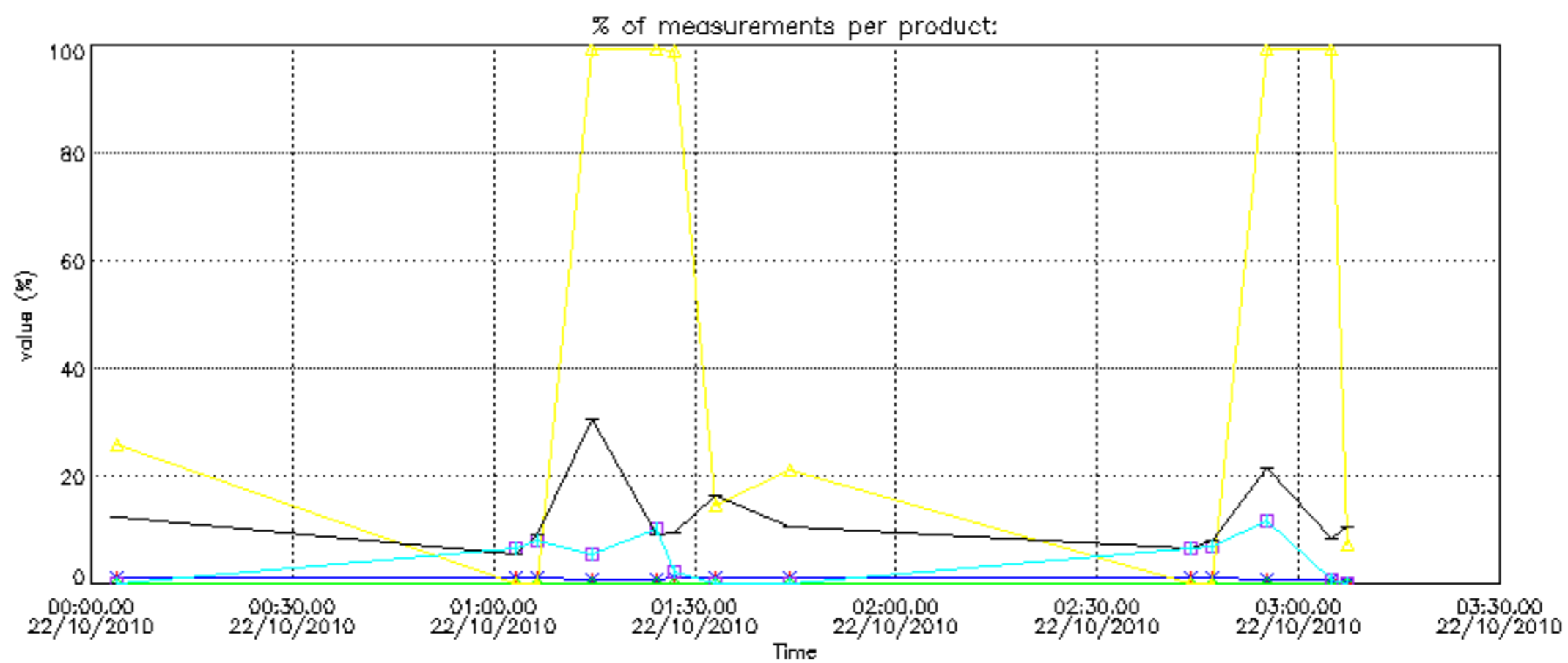
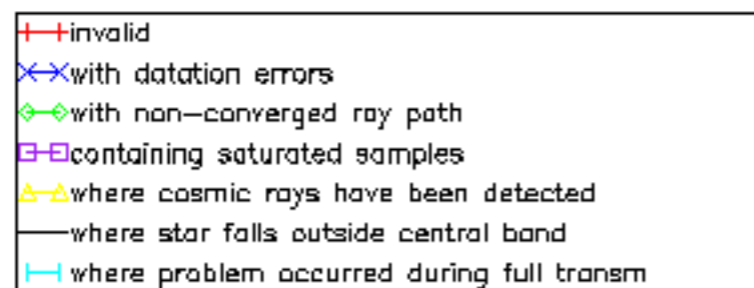


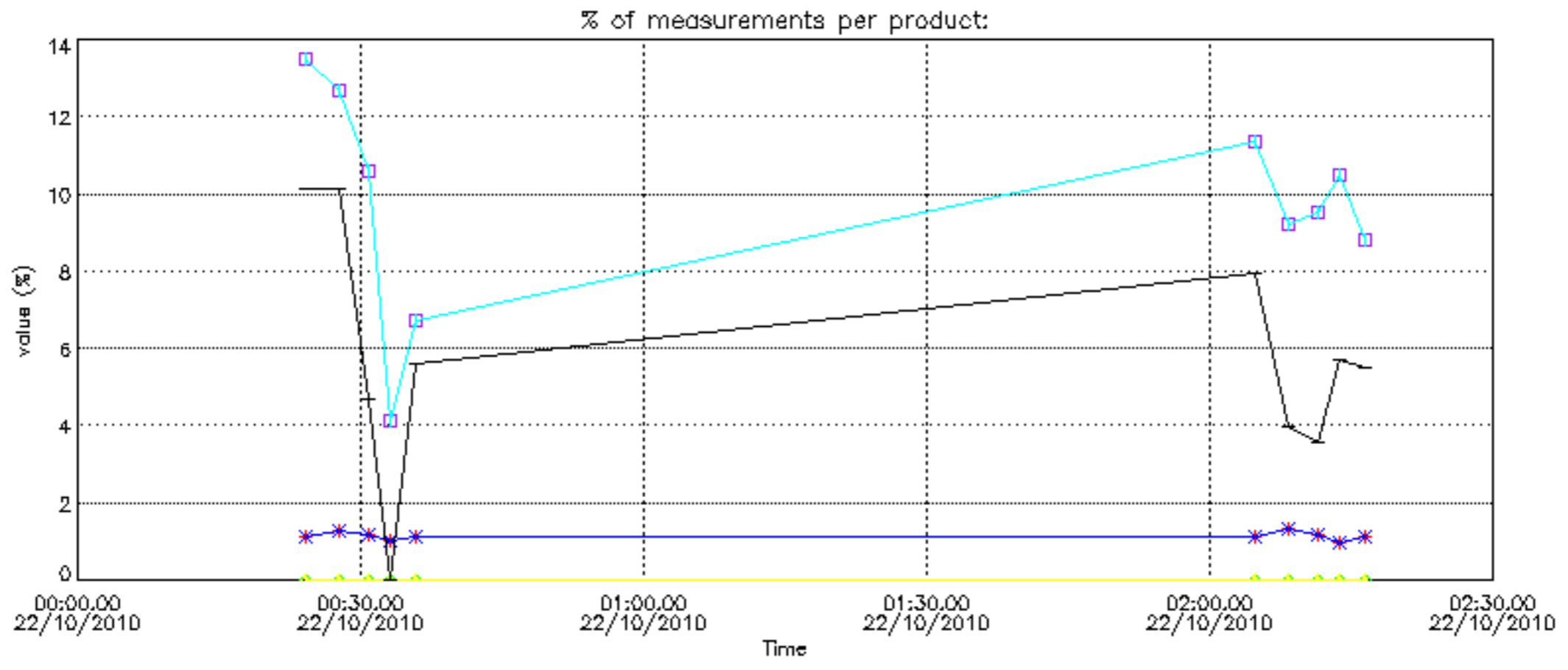
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

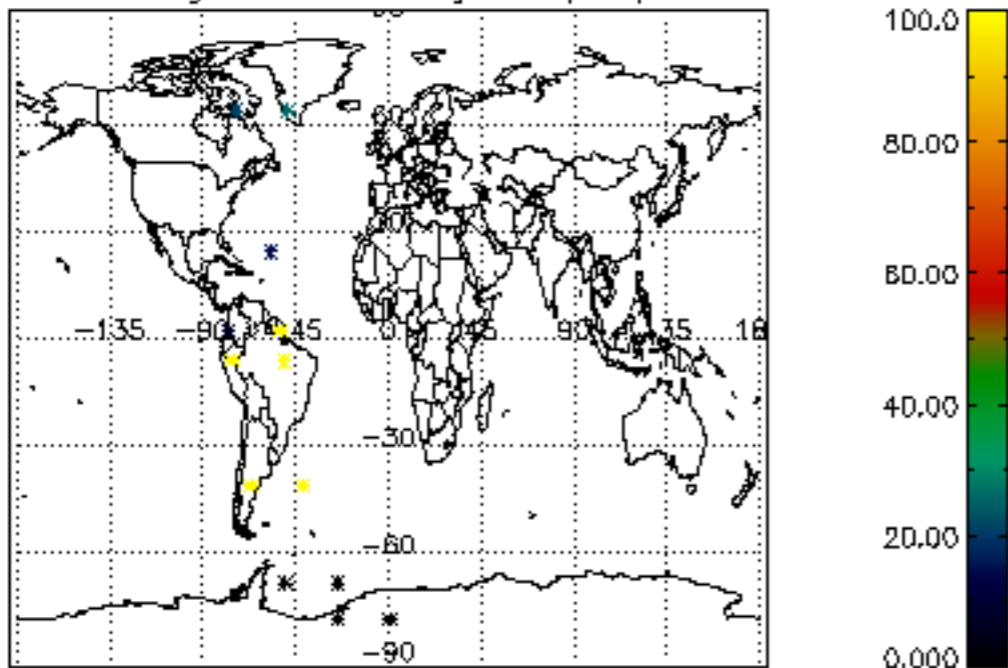




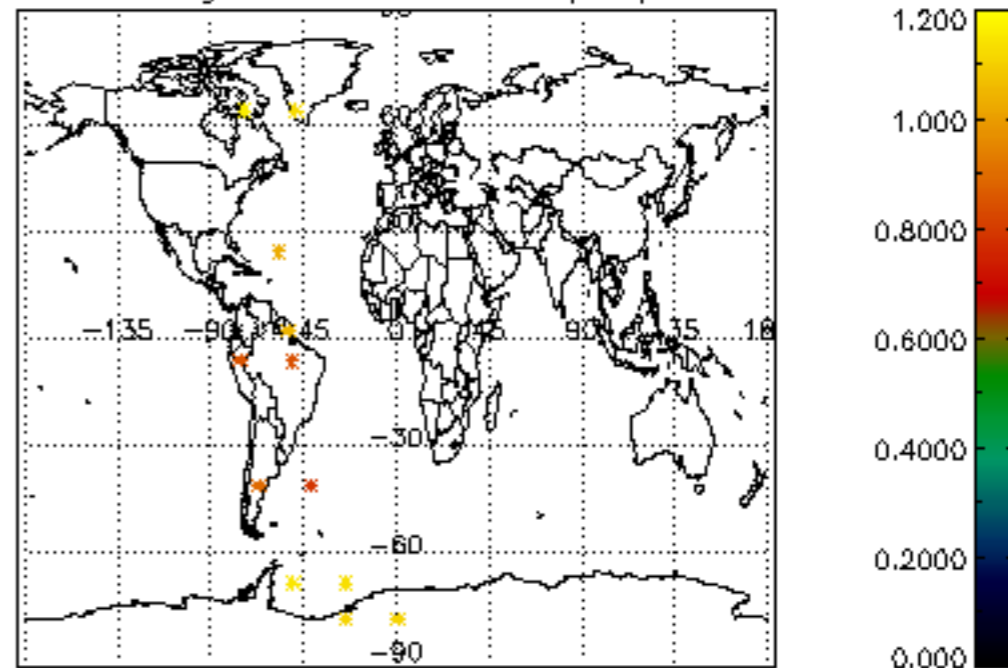




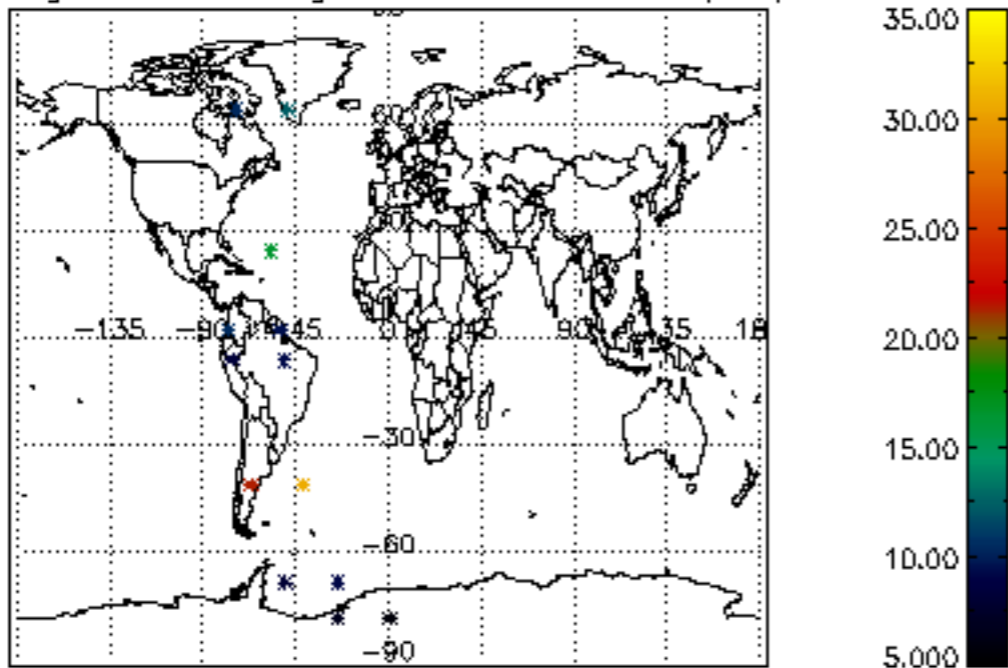
Percentage of cosmic ray hits per profile



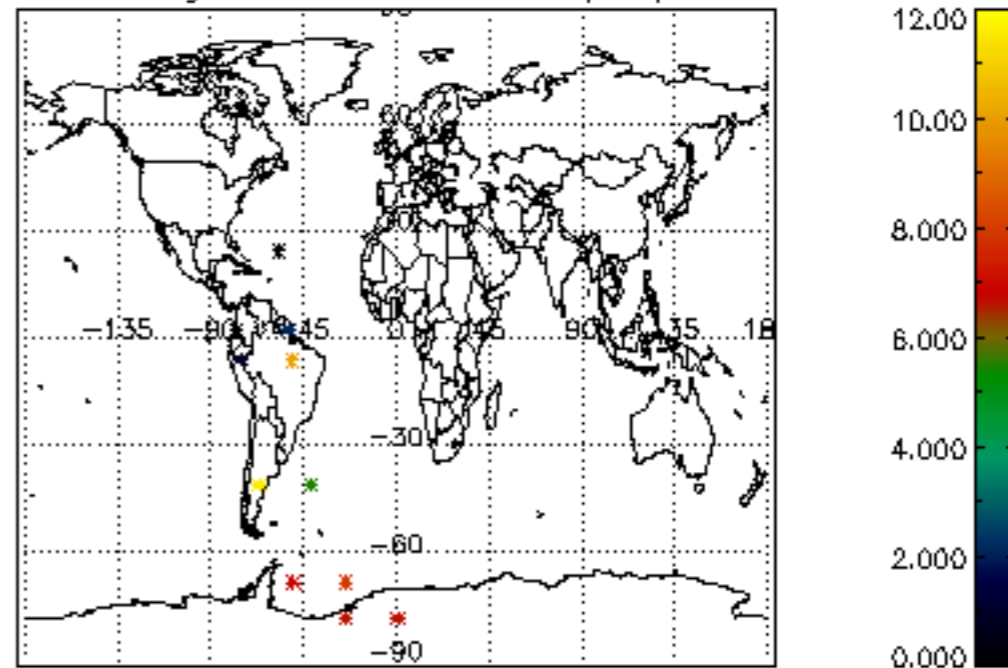
Percentage of datation errors per profile



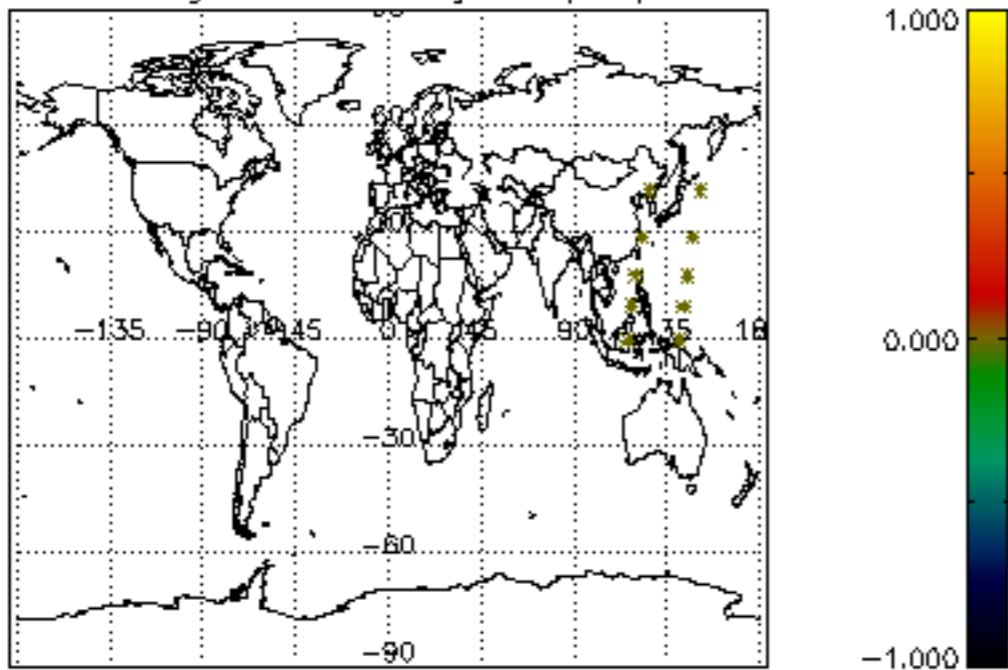
Percentage of star falling outside central band per profile



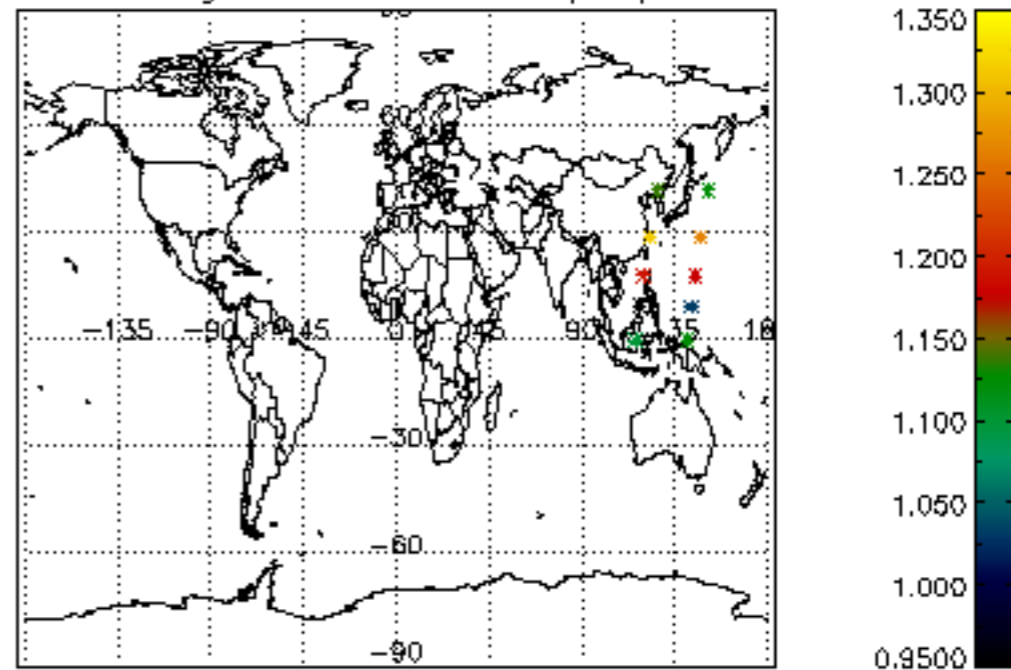
Percentage of saturation errors per profile



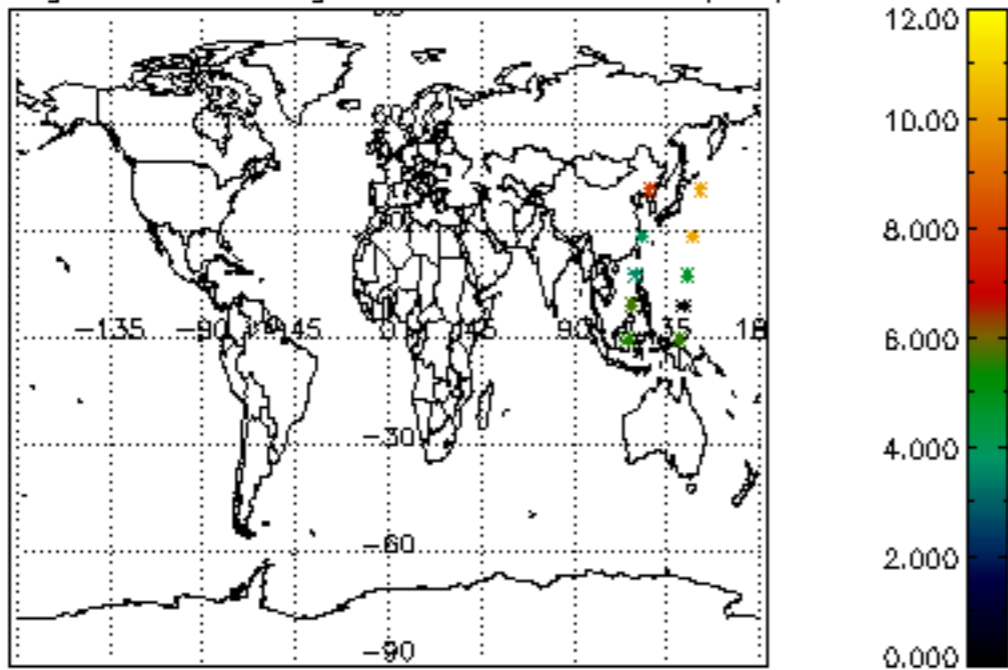
Percentage of cosmic ray hits per profile



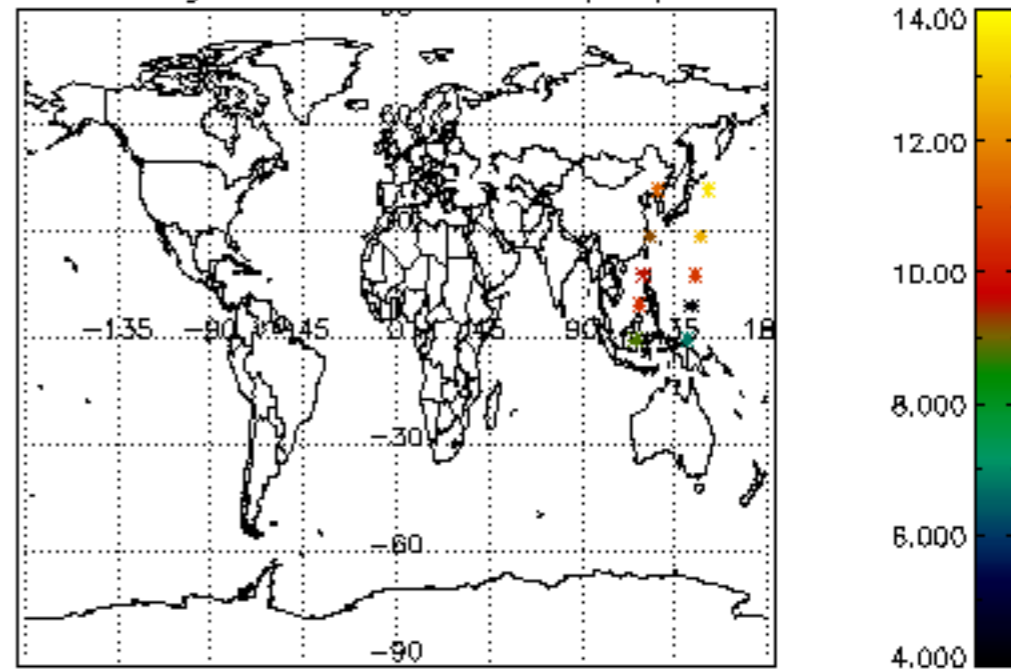
Percentage of datation errors per profile

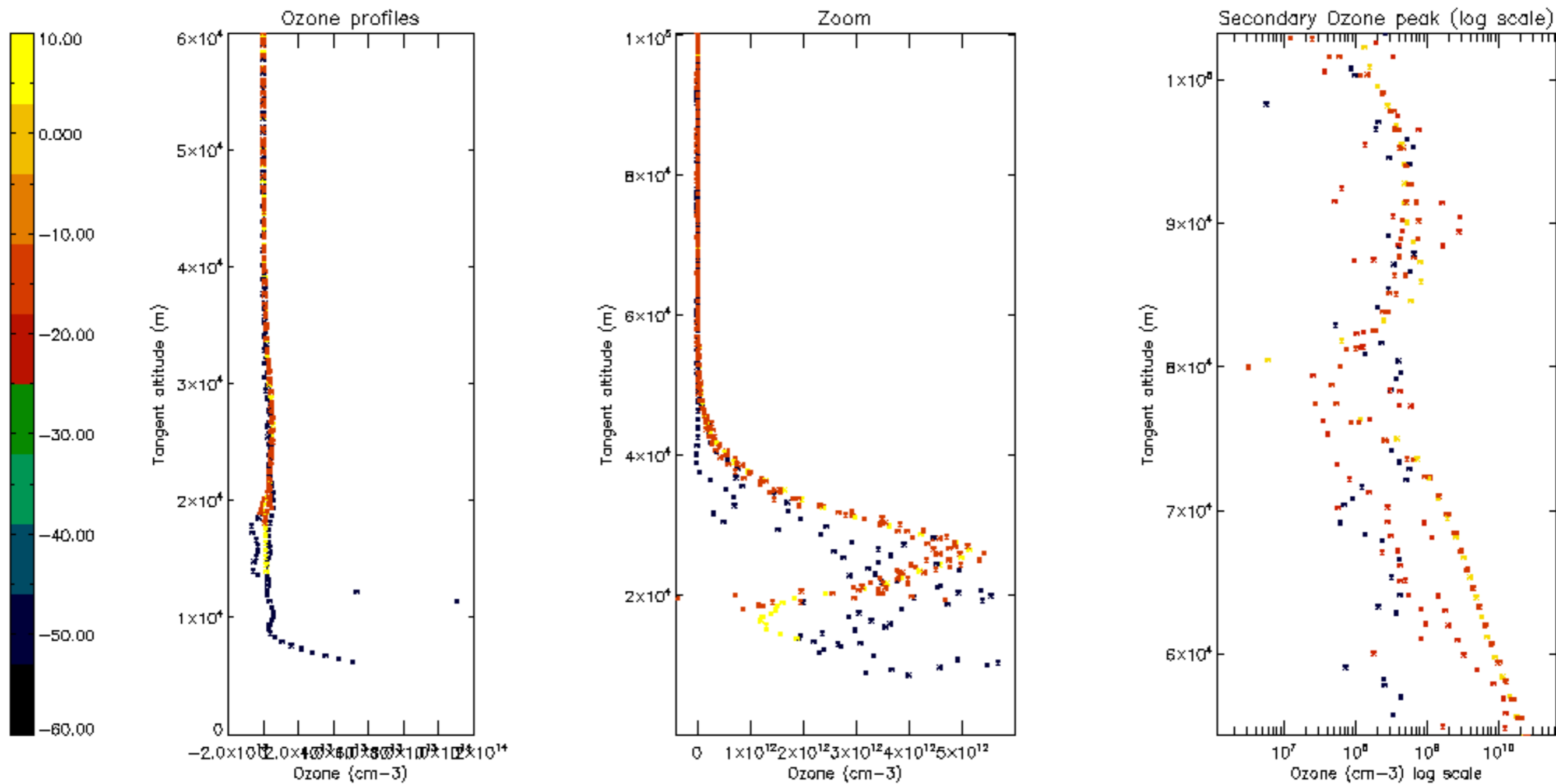


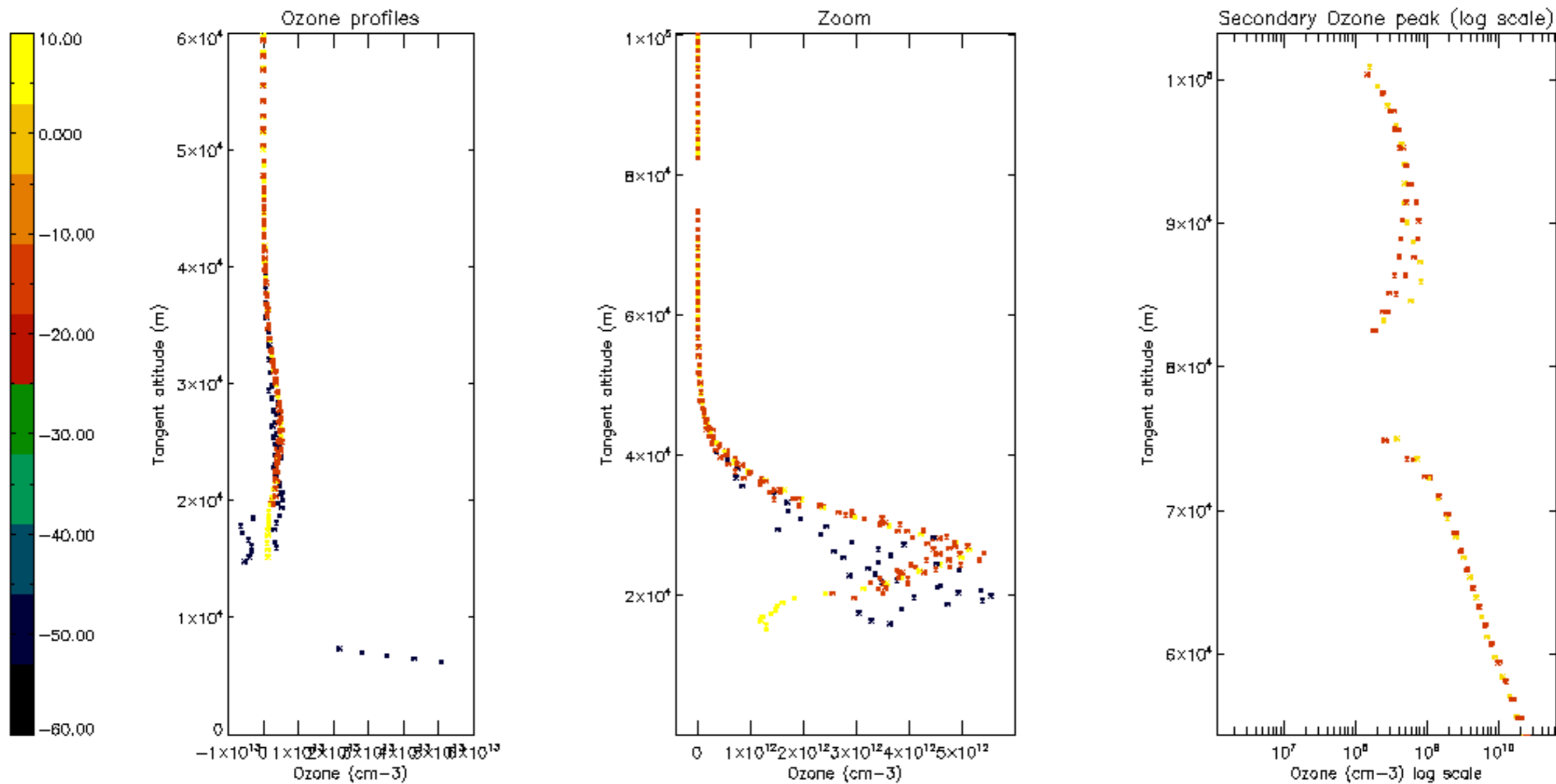
Percentage of star falling outside central band per profile

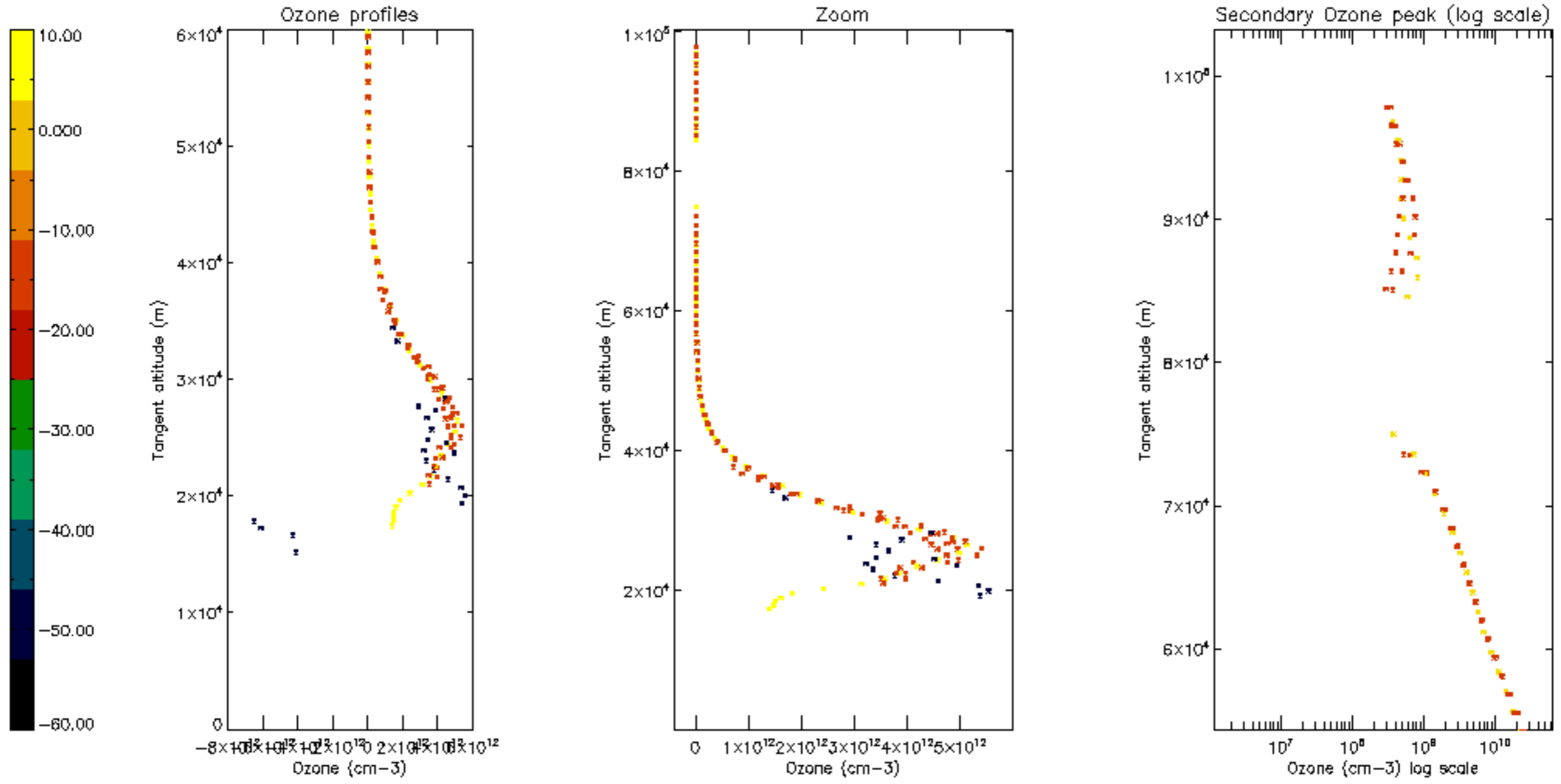


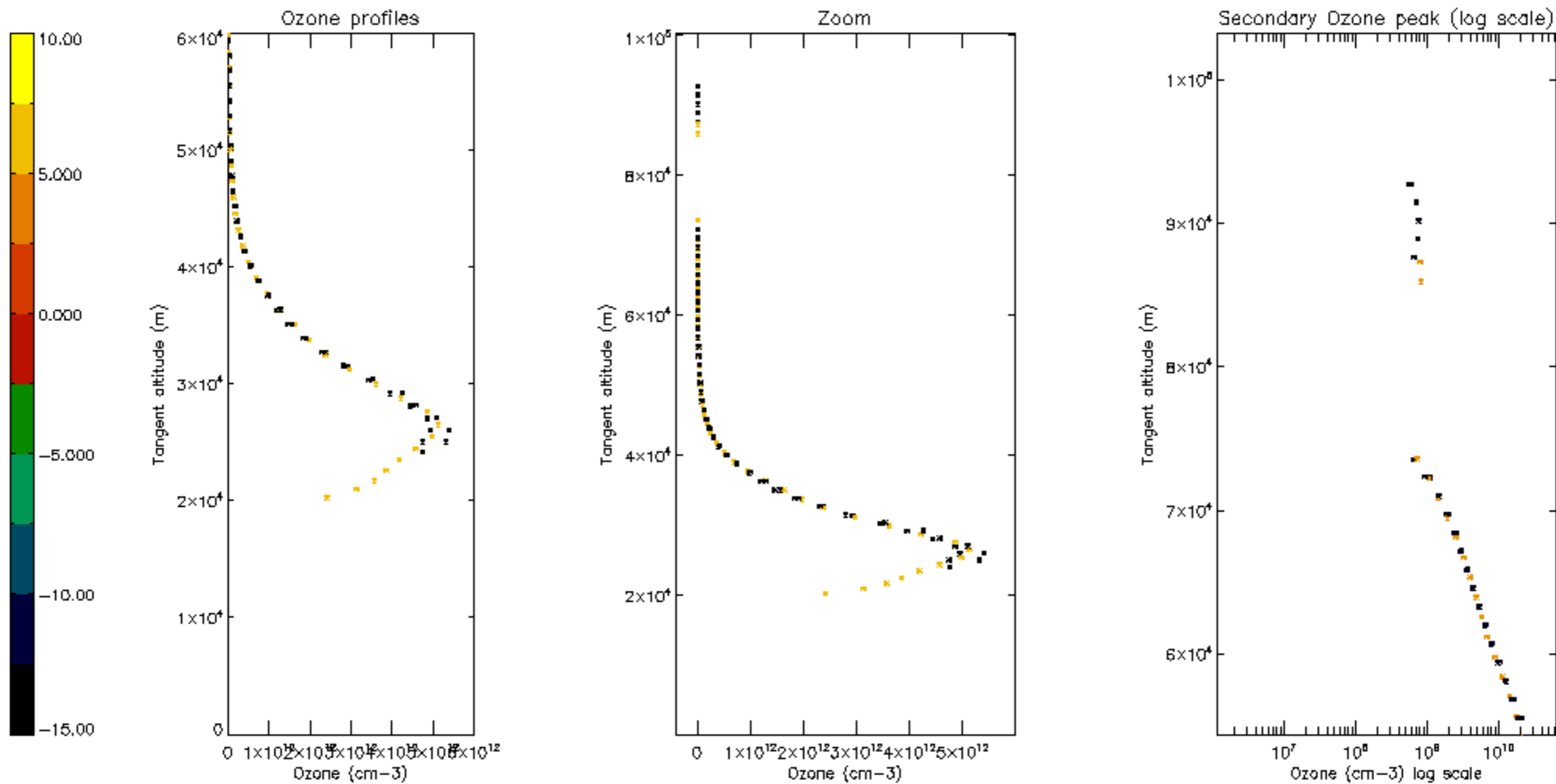
Percentage of saturation errors per profile

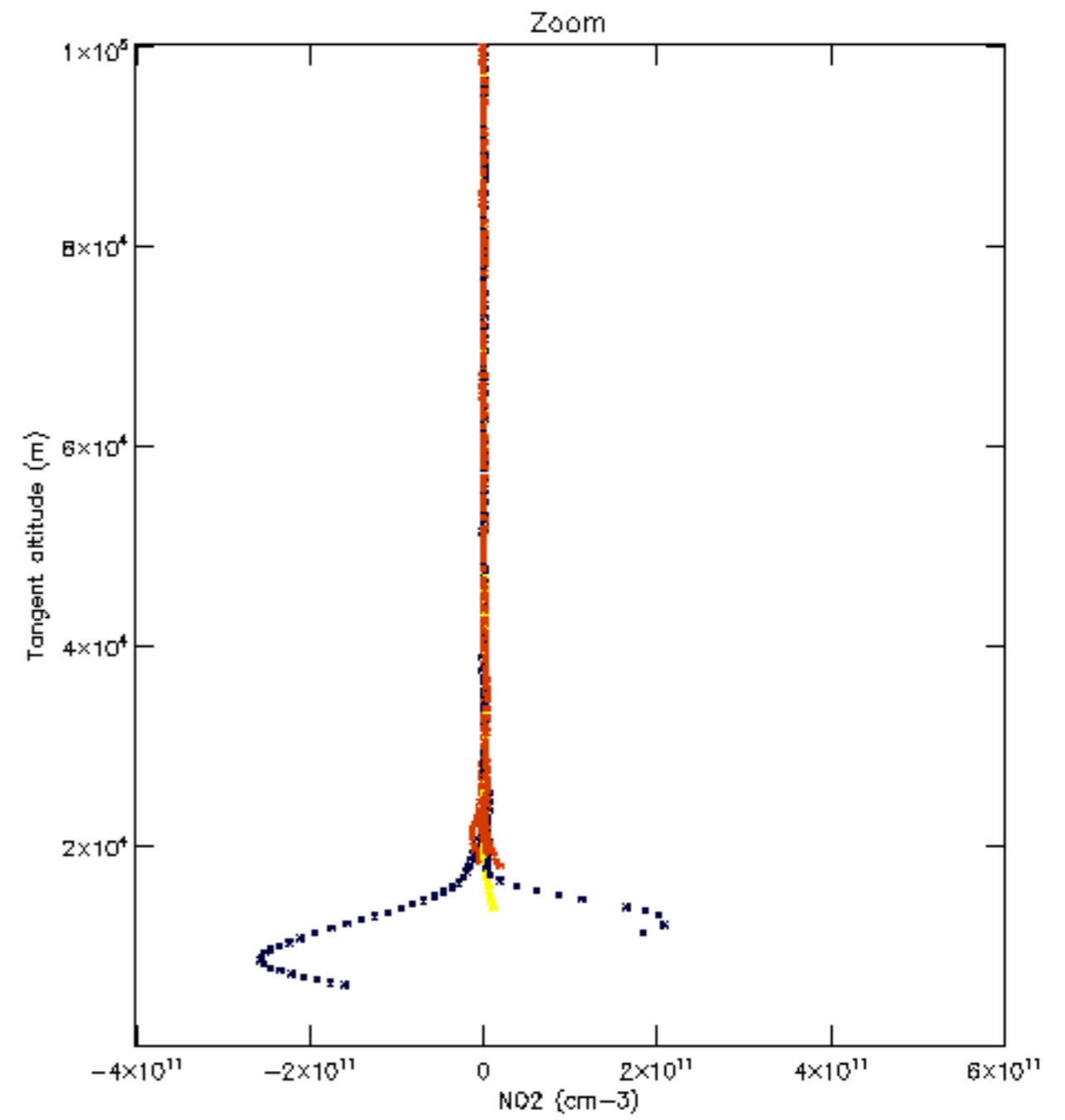
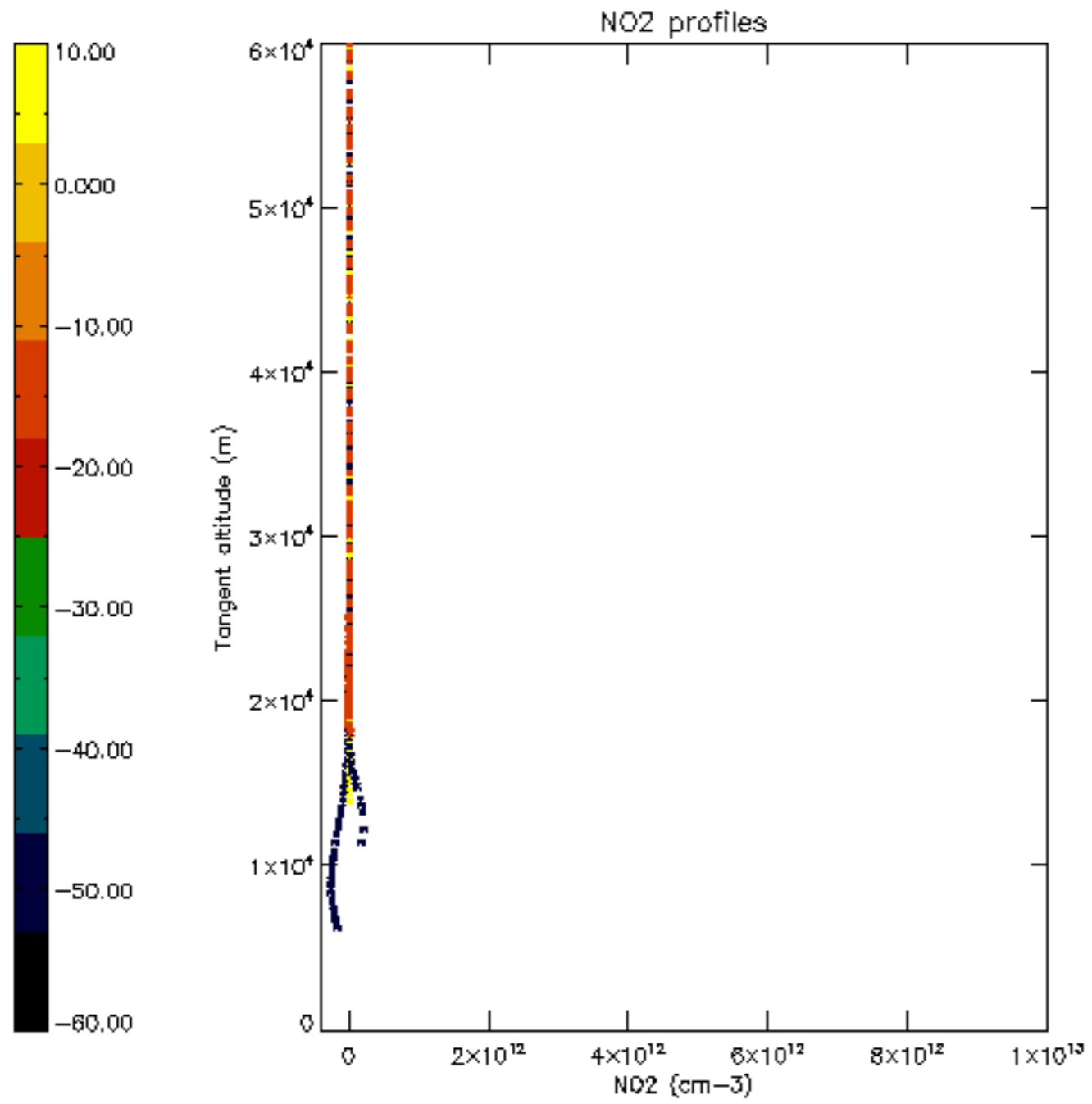


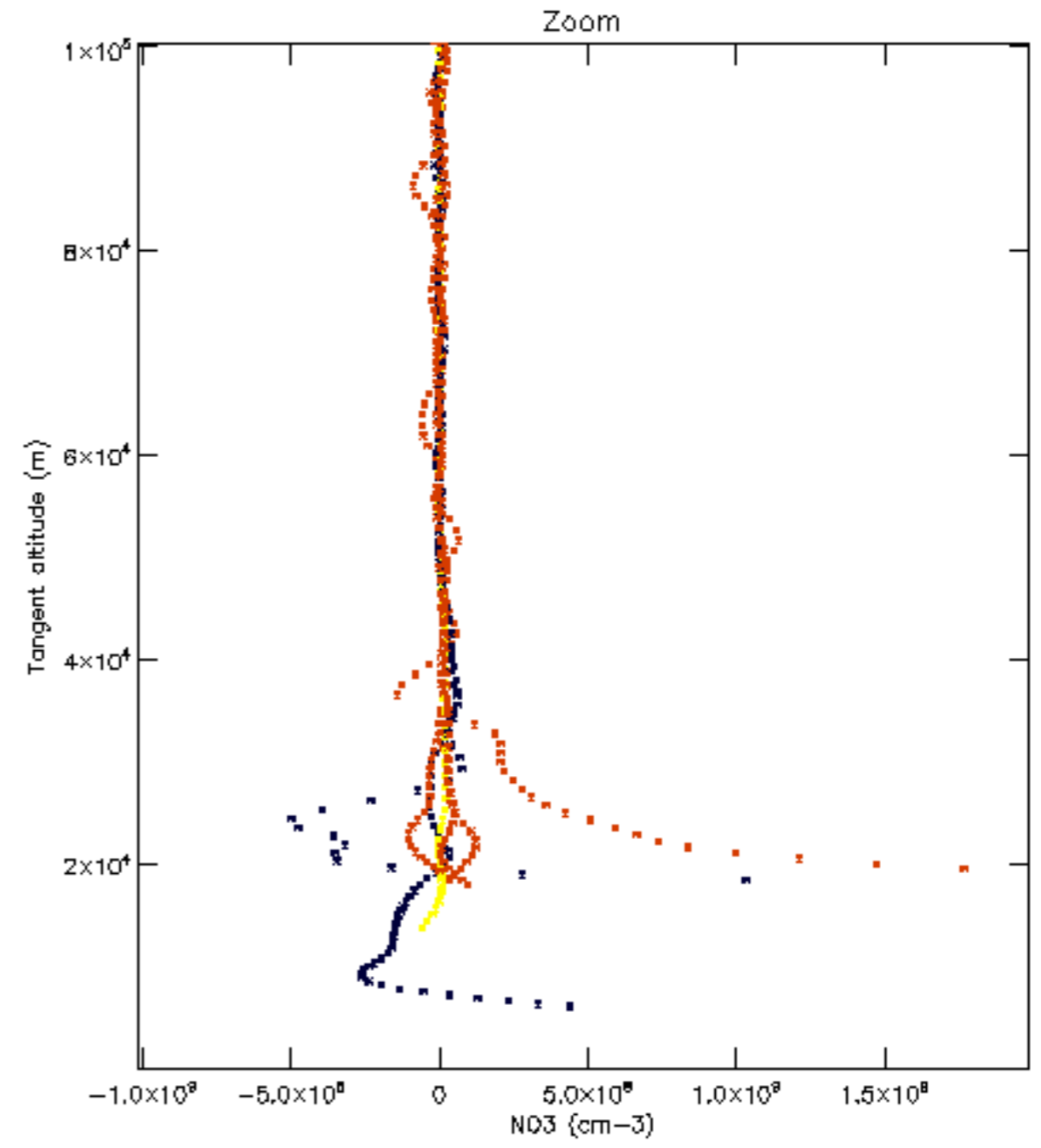
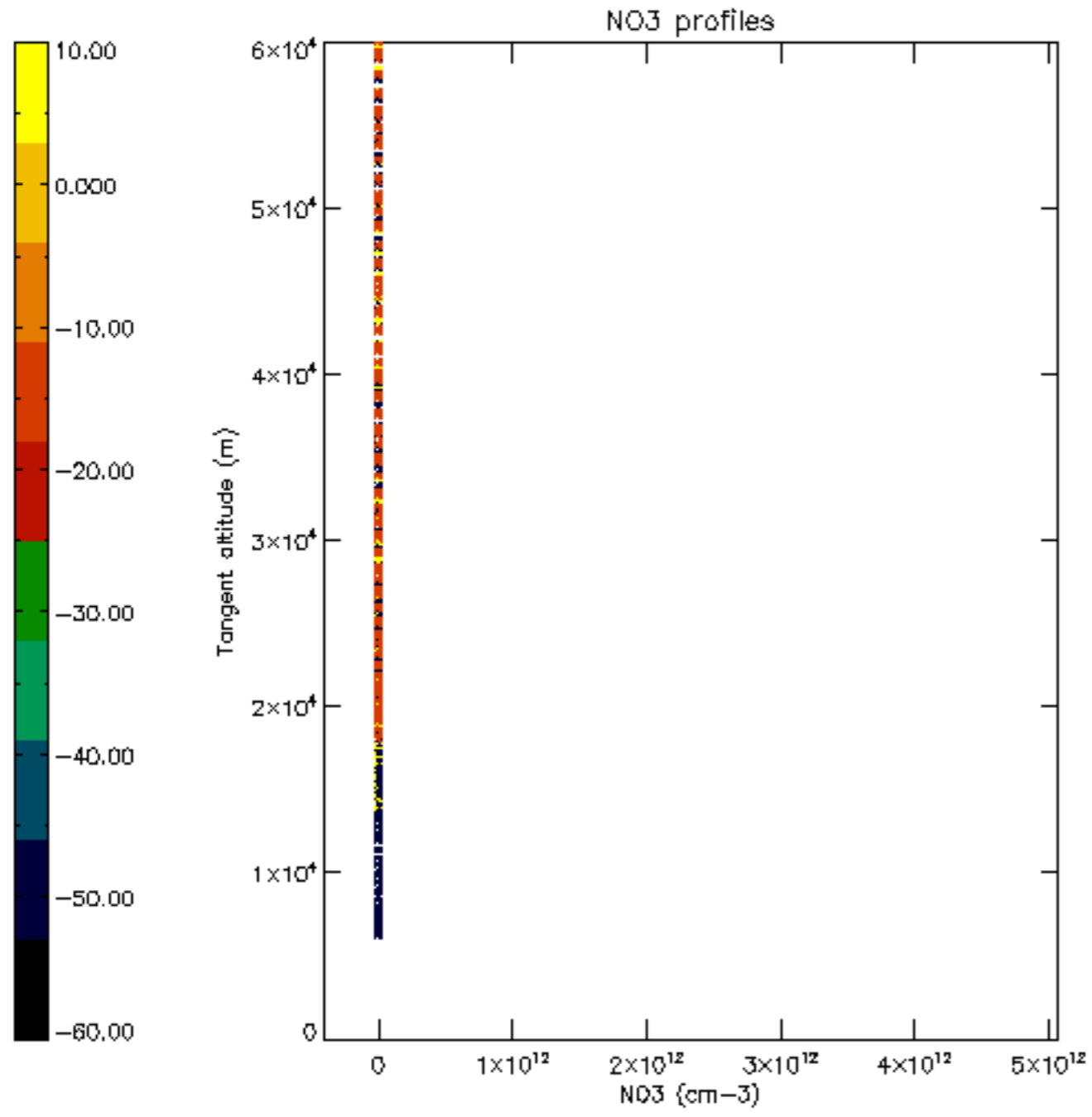




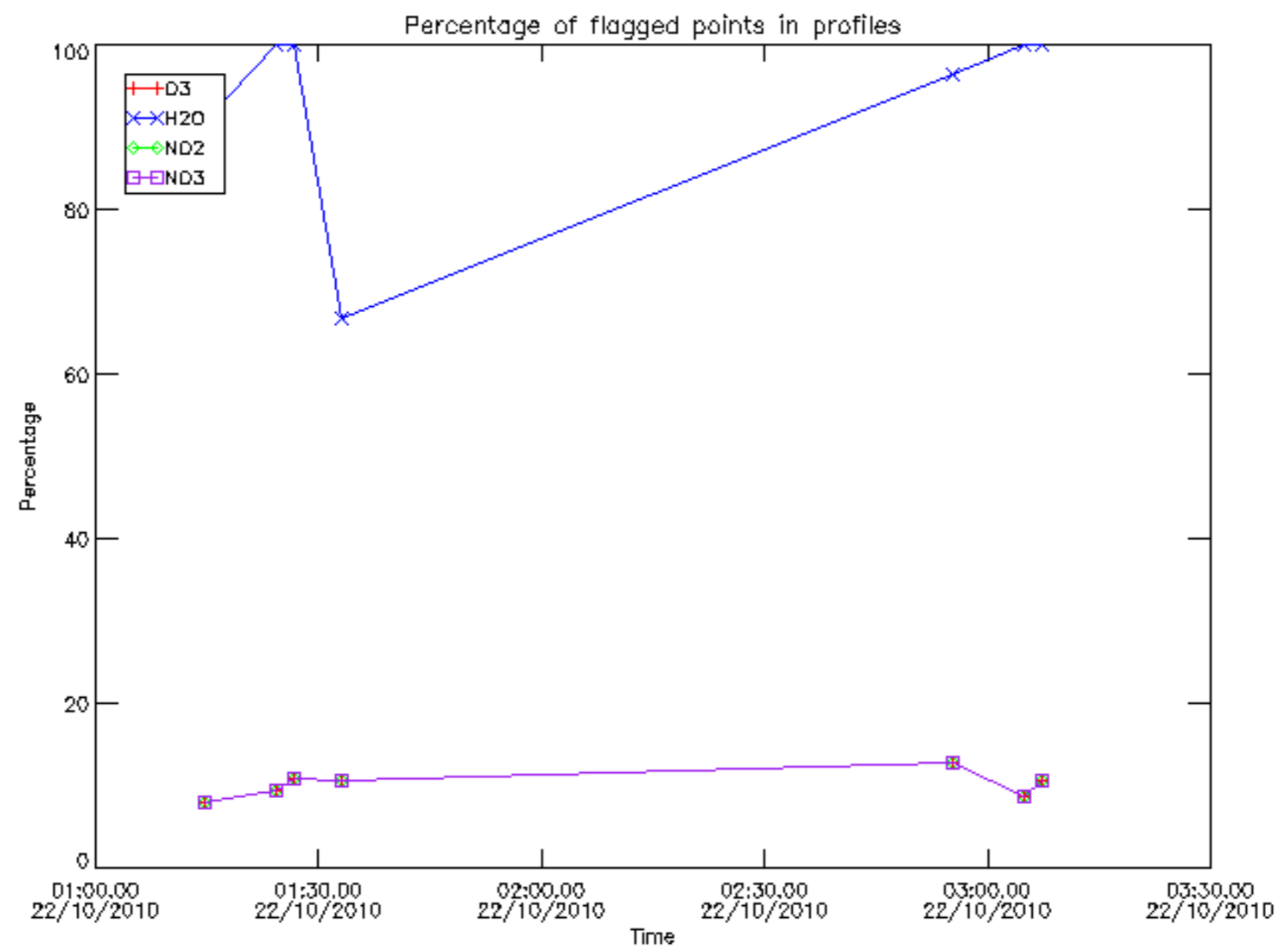




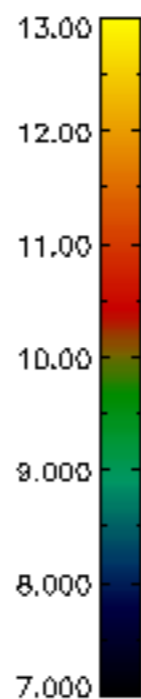
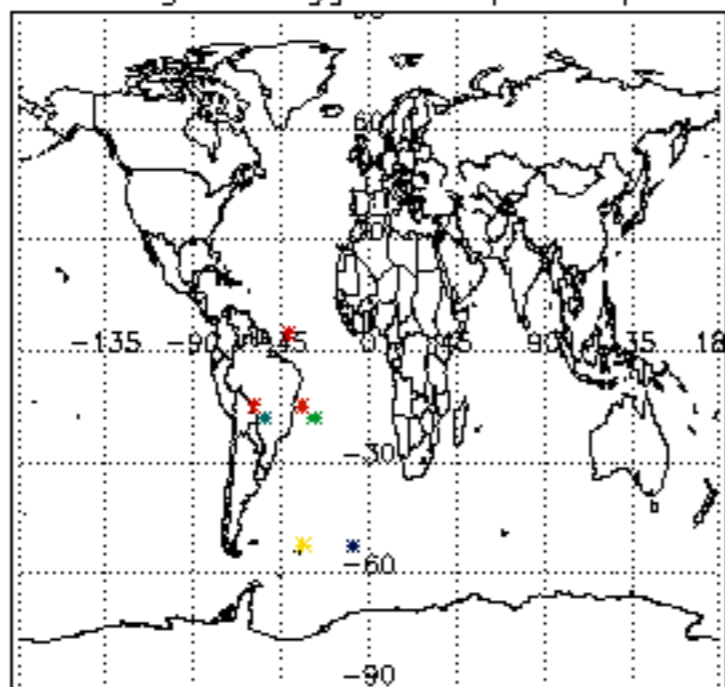




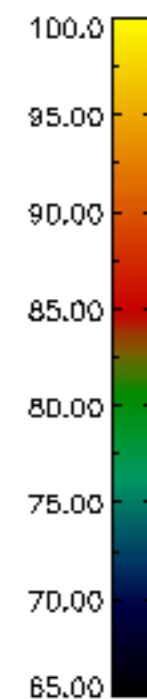
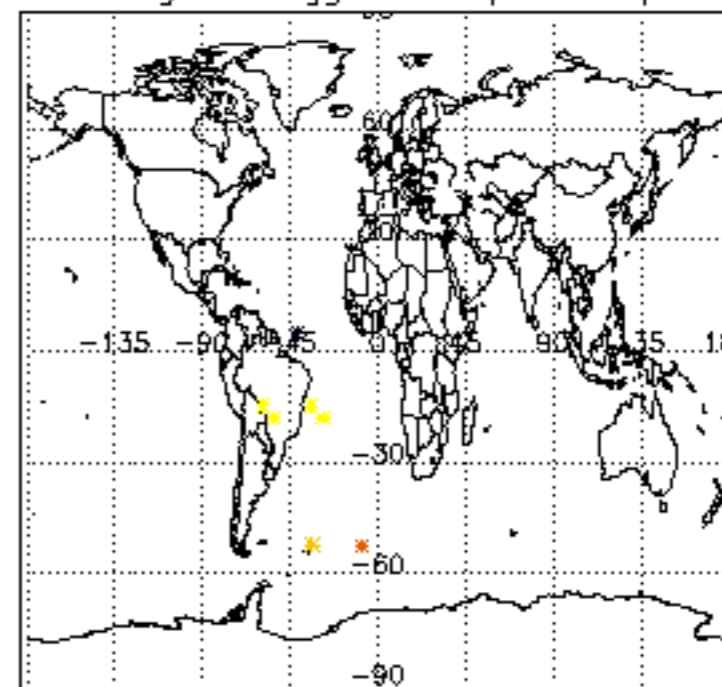




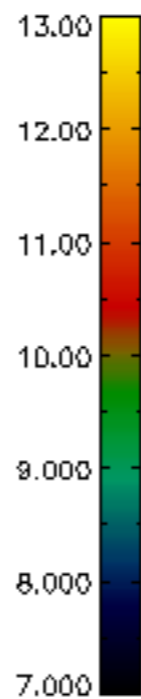
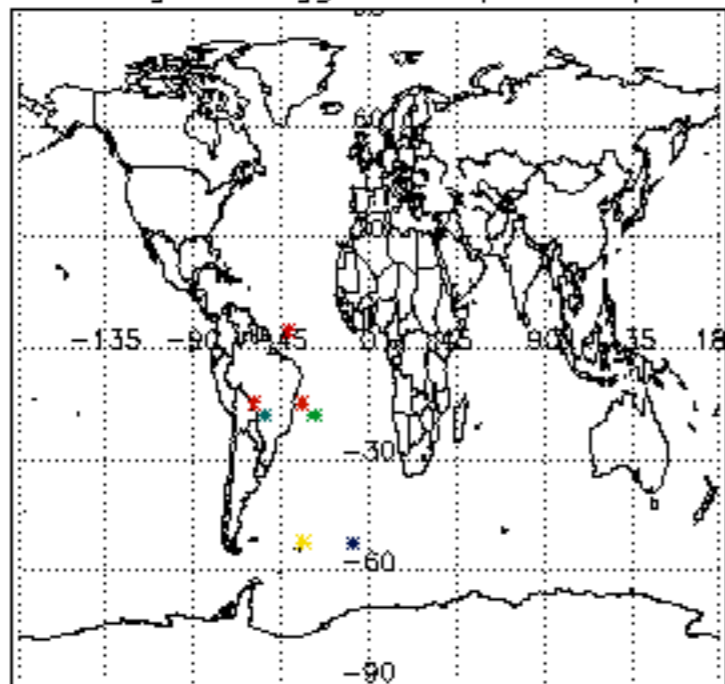
Percentage of flagged data per D3 profile



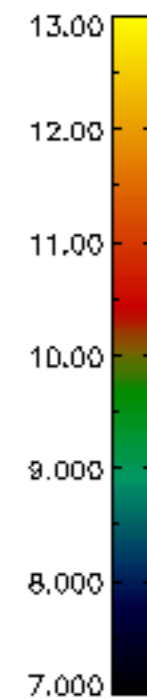
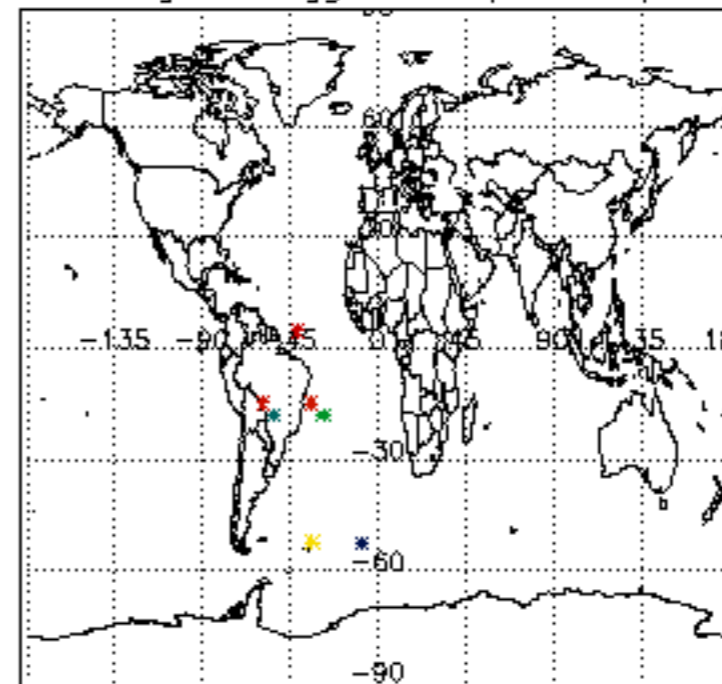
Percentage of flagged data per H2O profile

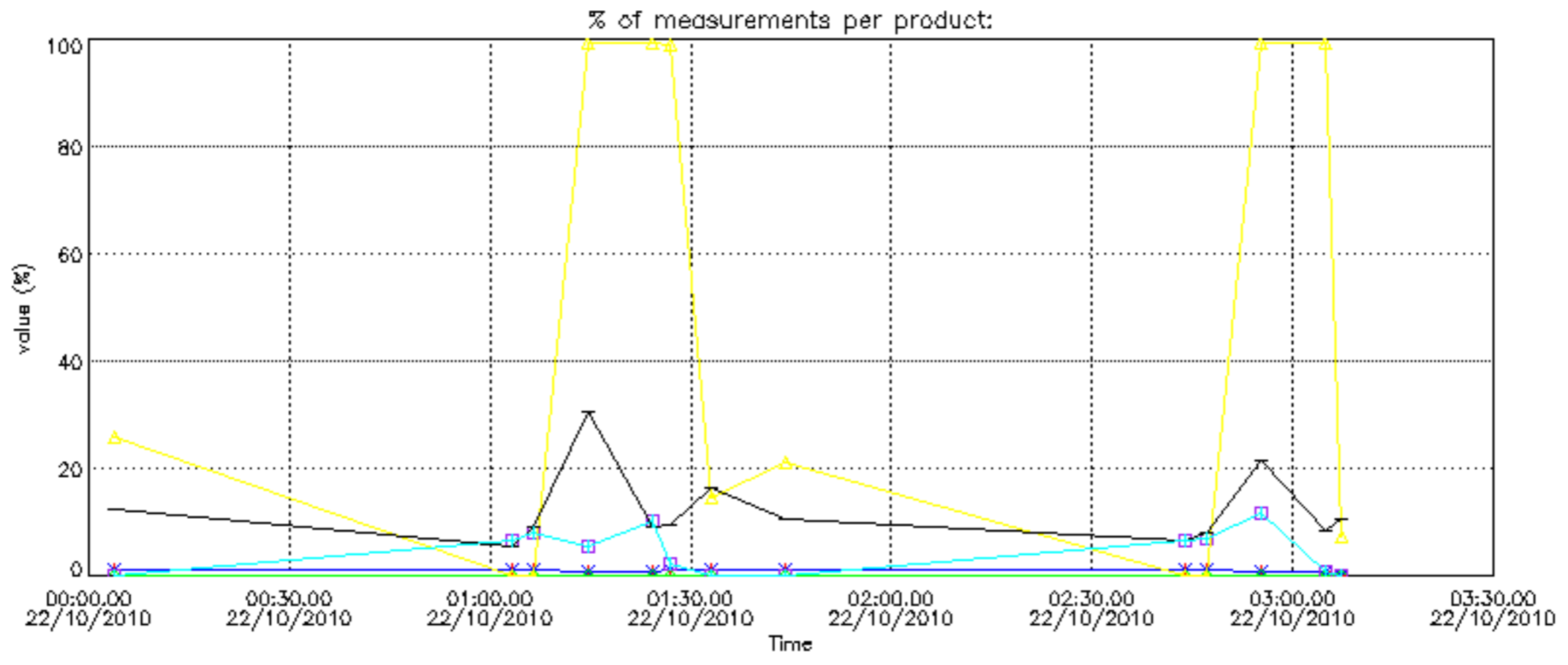


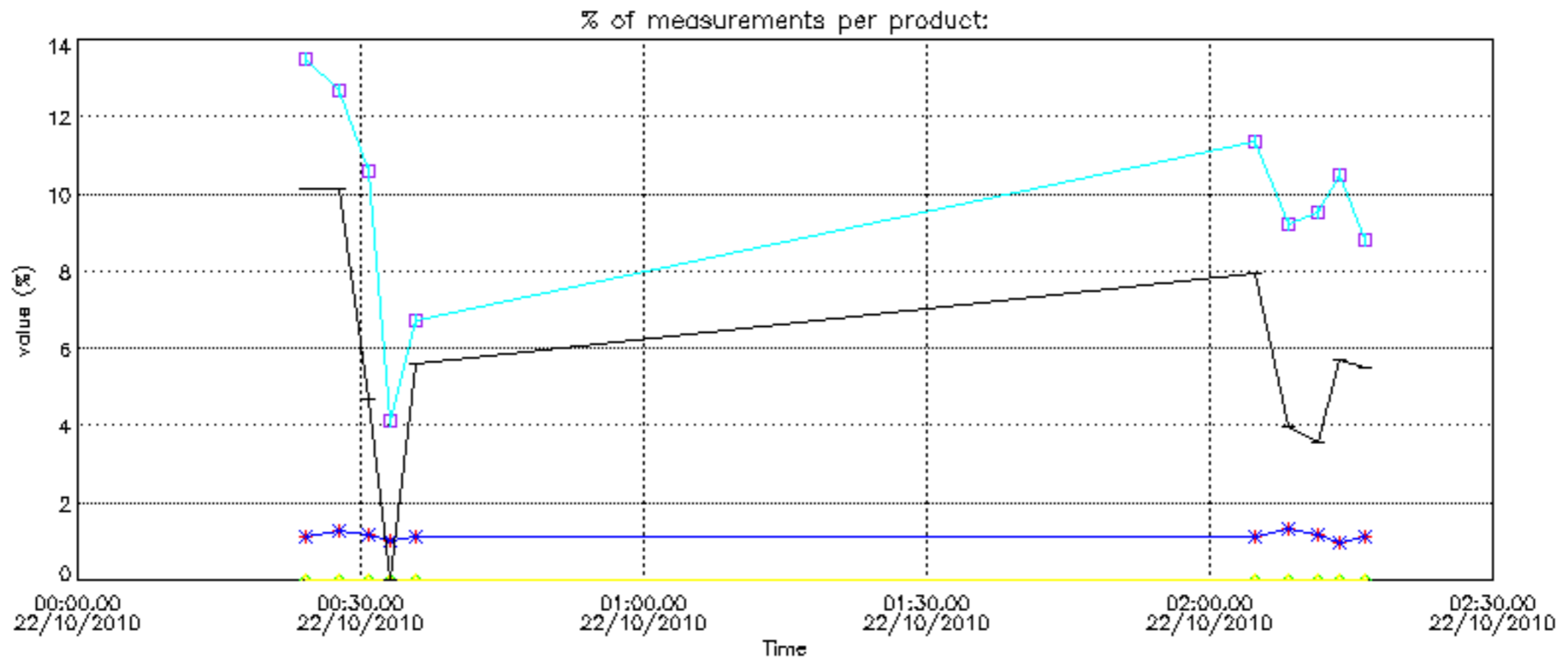
Percentage of flagged data per NO2 profile



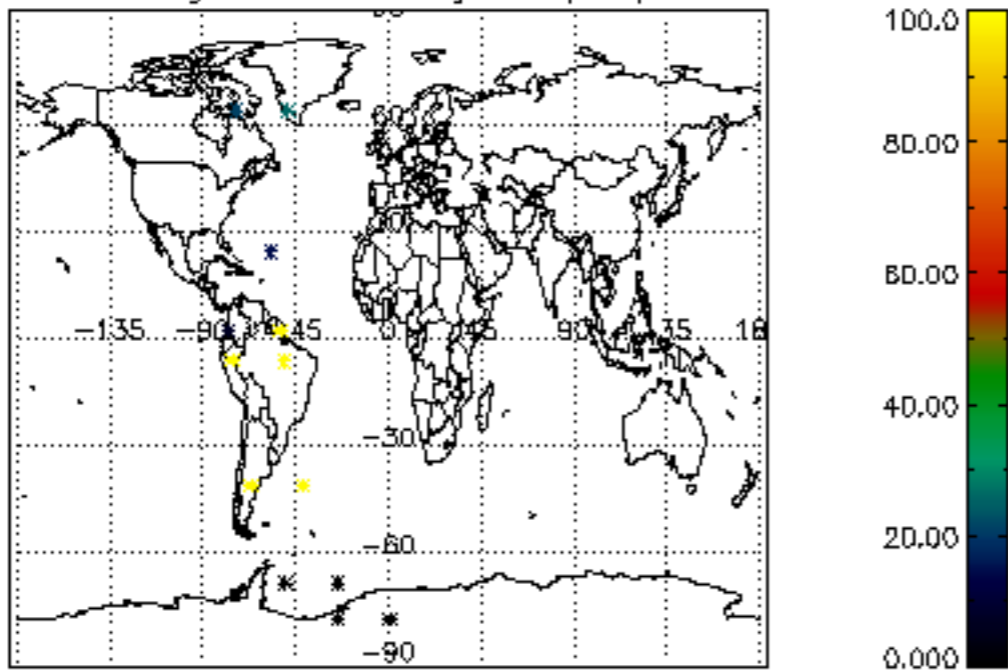
Percentage of flagged data per NO3 profile



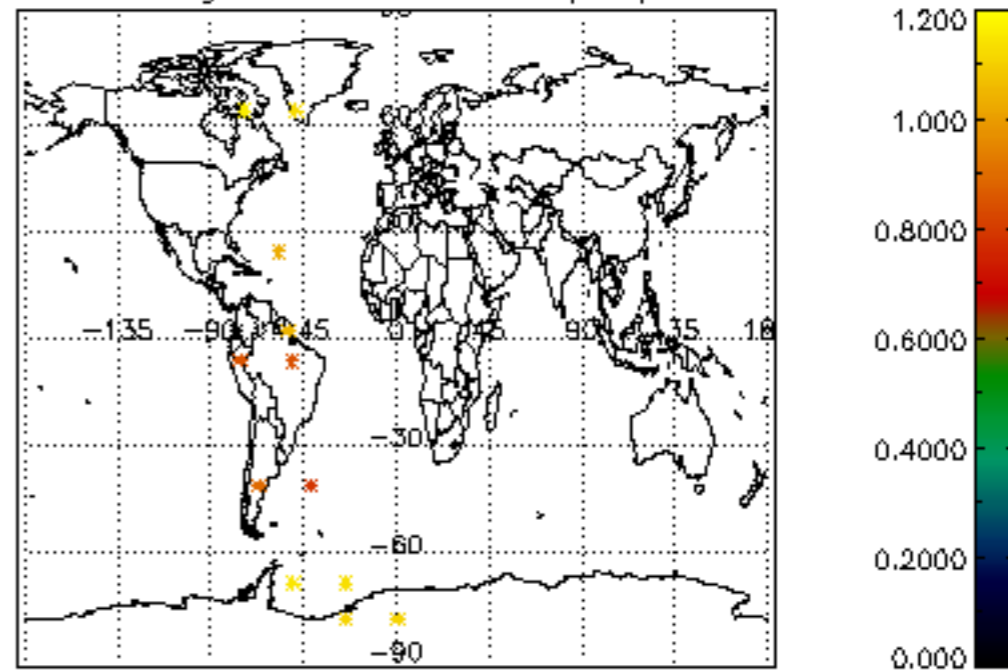




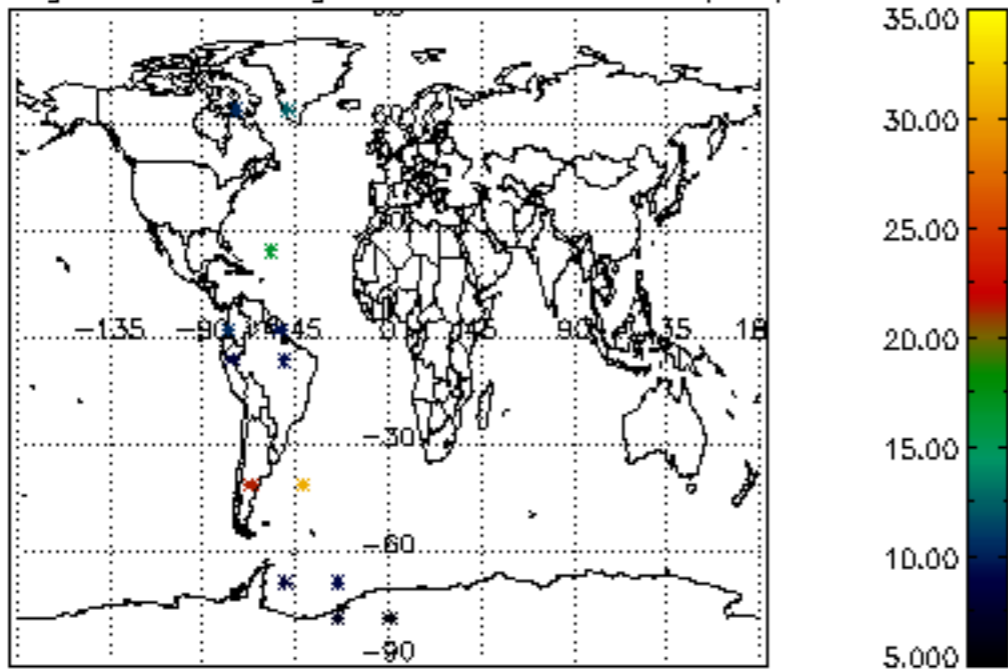
Percentage of cosmic ray hits per profile



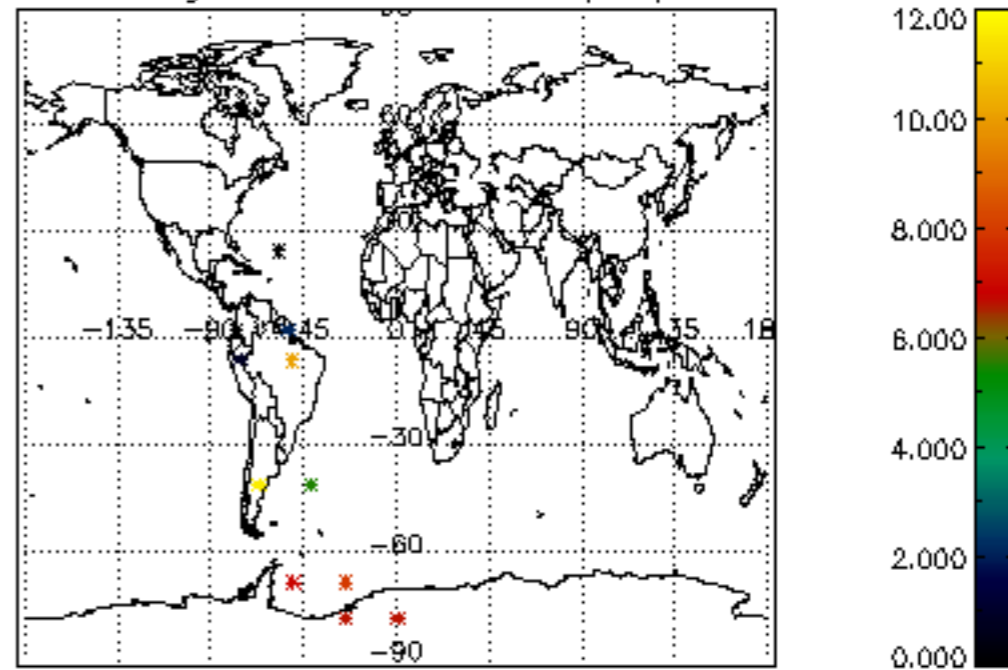
Percentage of datation errors per profile



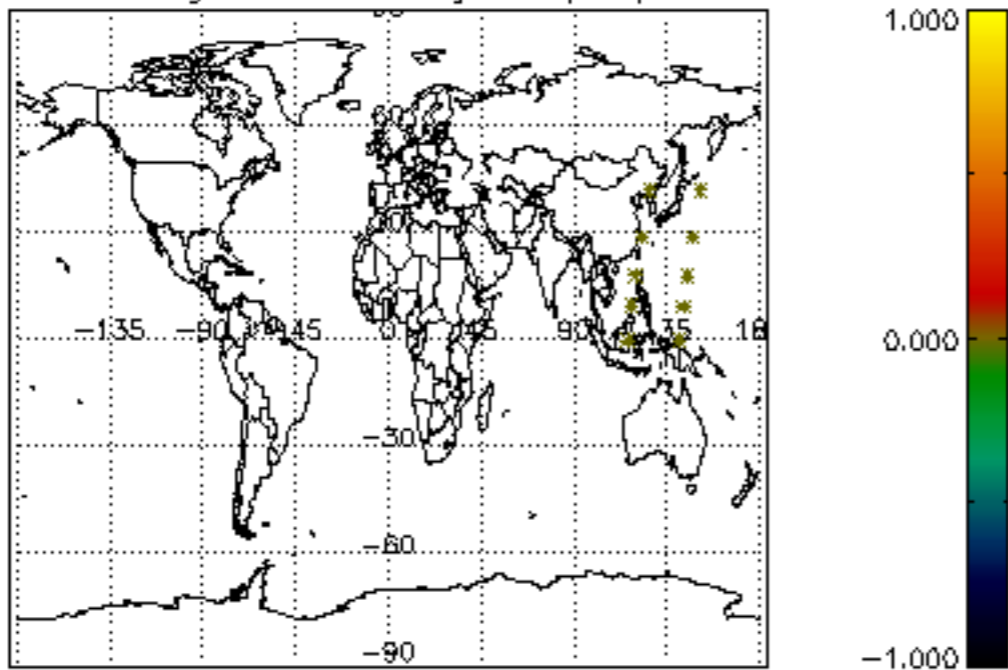
Percentage of star falling outside central band per profile



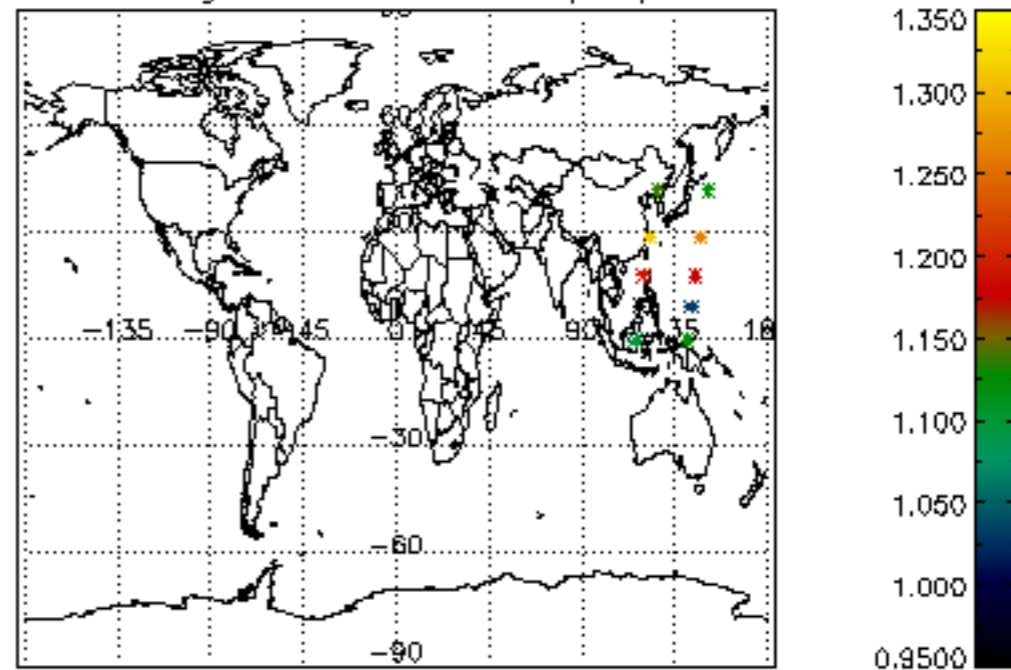
Percentage of saturation errors per profile



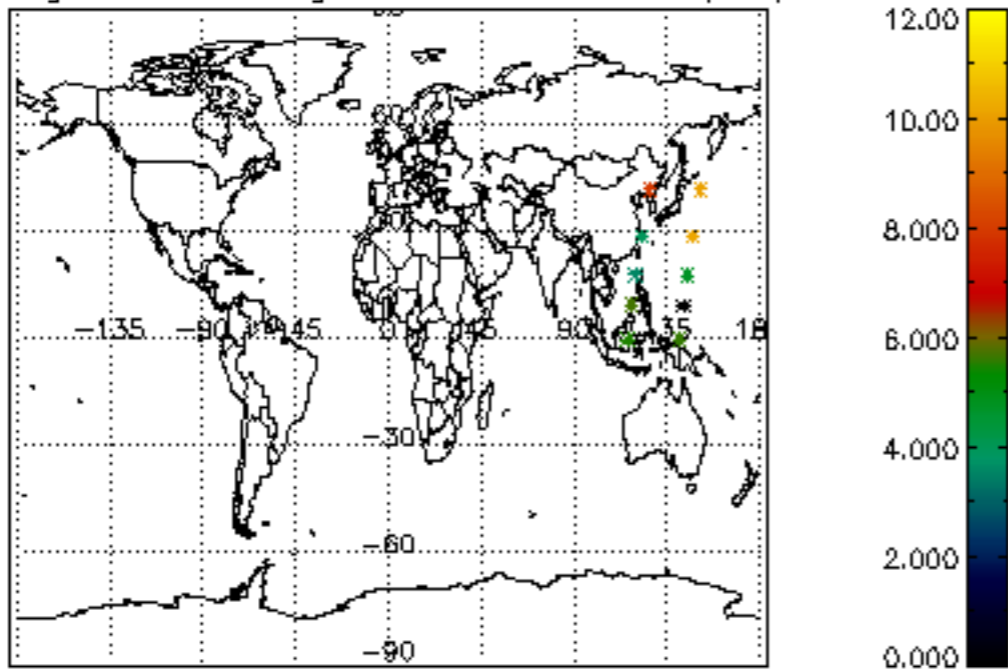
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

