

# GOMOS Level 2 Daily Report

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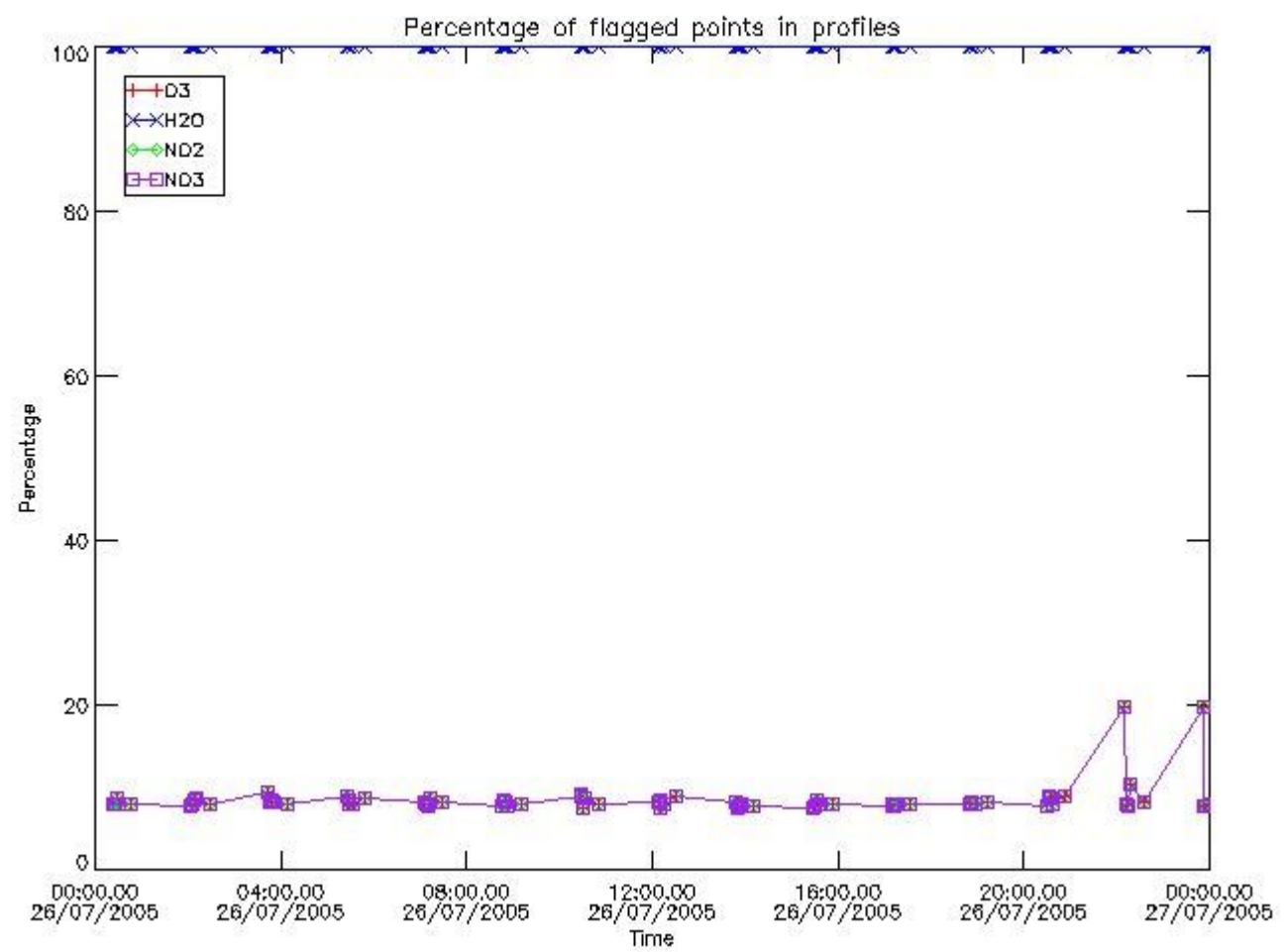


161	GOM_NL__2PRFIN20050726_205413_000000632039_00215_17804_5466.N1	26-JUL-2005 20:54:13	Dark	63.000	135	Bet Hyi	2.8200	5800.0	126	17804	No
162	GOM_NL__2PRFIN20050726_210216_000000682039_00215_17804_5467.N1	26-JUL-2005 21:02:16	Straylight	67.500	45	Alp Pav	1.9400	26000.	135	17804	No
163	GOM_NL__2PRFIN20050726_210955_000000742039_00215_17804_5468.N1	26-JUL-2005 21:09:55	Bright	73.500	38	20Eps Sgr	1.8360	11000.	147	17804	No
164	GOM_NL__2PRFIN20050726_211222_000000662039_00215_17804_5469.N1	26-JUL-2005 21:12:22	Bright	65.500	137	22Lam Sgr	2.8240	4400.0	131	17804	No
165	GOM_NL__2PRFIN20050726_212112_000000642039_00215_17804_5470.N1	26-JUL-2005 21:21:12	Bright	64.000	126	60Bet Oph	2.7700	4250.0	128	17804	No
166	GOM_NL__2PRFIN20050726_212332_000000662039_00215_17804_5471.N1	26-JUL-2005 21:23:32	Bright	65.500	59	55Alp Oph	2.0800	8900.0	131	17804	No
167	GOM_NL__2PRFIN20050726_213353_000000672039_00215_17804_5472.N1	26-JUL-2005 21:33:53	Bright	66.500	69	33Gam Dra	2.2310	3800.0	133	17804	No
168	GOM_NL__2PRFIN20050726_213740_000000632039_00215_17804_5473.N1	26-JUL-2005 21:37:40	Bright	63.000	119	14Eta Dra	2.7270	4700.0	126	17804	No
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170	GOM_NL__2PRFIN20050726_221048_000000262039_00215_17804_5475.N1	26-JUL-2005 22:10:48	Dark	26.000	30	46Eps Ori	1.6940	30000.	52	17804	No
171	GOM_NL__2PRFIN20050726_221257_000000652039_00215_17804_5476.N1	26-JUL-2005 22:12:57	Dark	65.000	56	53Kap Ori	2.0650	30000.	130	17804	No
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173	GOM_NL__2PRFIN20050726_221813_000000642039_00215_17804_5478.N1	26-JUL-2005 22:18:13	Dark	64.000	177	1Zet CMa	3.0220	26000.	128	17804	No
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177	GOM_NL__2PRFIN20050726_225258_000000652039_00216_17805_5608.N1	26-JUL-2005 22:52:58	Bright	65.000	137	22Lam Sgr	2.8240	4400.0	130	17805	No
178	GOM_NL__2PRFIN20050726_230148_000000652039_00216_17805_5609.N1	26-JUL-2005 23:01:48	Bright	65.000	126	60Bet Oph	2.7700	4250.0	130	17805	No
179	GOM_NL__2PRFIN20050726_230408_000000652039_00216_17805_5610.N1	26-JUL-2005 23:04:08	Bright	65.000	59	55Alp Oph	2.0800	8900.0	130	17805	No
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182	GOM_NL__2PRFIN20050726_232229_000000612039_00216_17805_5613.N1	26-JUL-2005 23:22:29	Bright	61.000	60	7Bet UMi	2.0810	3950.0	122	17805	No
183	GOM_NL__2PRFIN20050726_235124_000000262039_00216_17805_5614.N1	26-JUL-2005 23:51:24	Dark	26.000	30	46Eps Ori	1.6940	30000.	52	17805	No
184	GOM_NL__2PRFIN20050726_235333_000000672039_00216_17805_5615.N1	26-JUL-2005 23:53:33	Dark	66.500	56	53Kap Ori	2.0650	30000.	133	17805	No
185	GOM_NL__2PRFIN20050726_235527_000000662039_00216_17805_5616.N1	26-JUL-2005 23:55:27	Dark	65.500	47	2Bet CMa	1.9760	28000.	131	17805	No
186	GOM_NL__2PRFIN20050726_235849_000000652039_00216_17805_5617.N1	26-JUL-2005 23:58:49	Dark	64.500	177	1Zet CMa	3.0220	26000.	129	17805	No

### *3. Quality information per product*

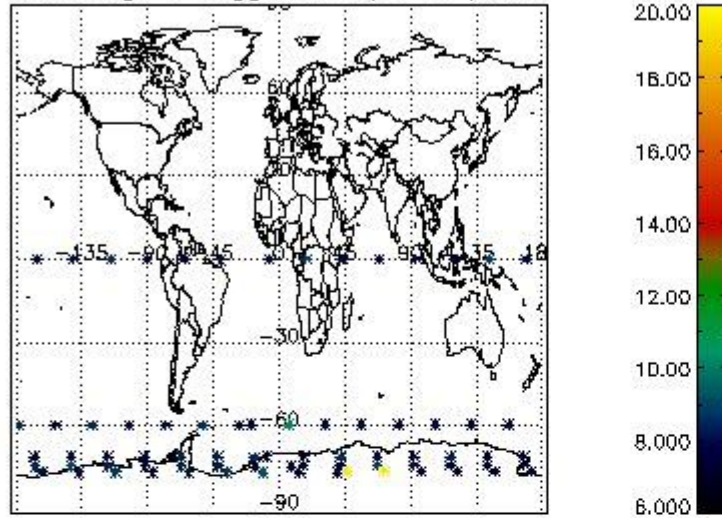
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

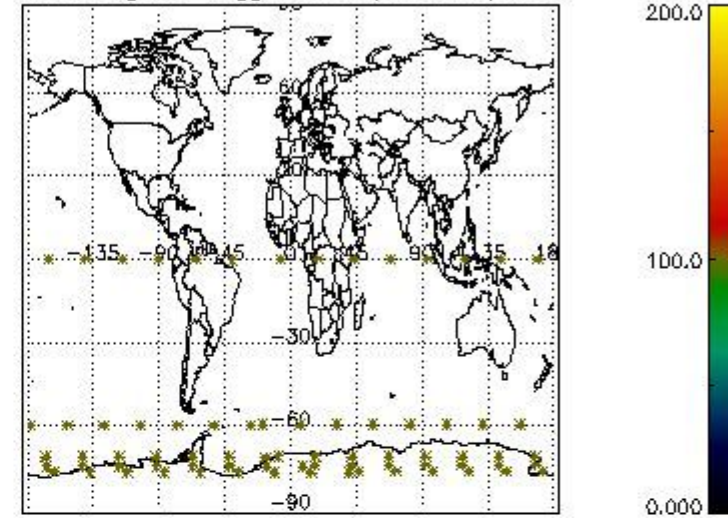


*3.2 Plot quality information per product (world map)*

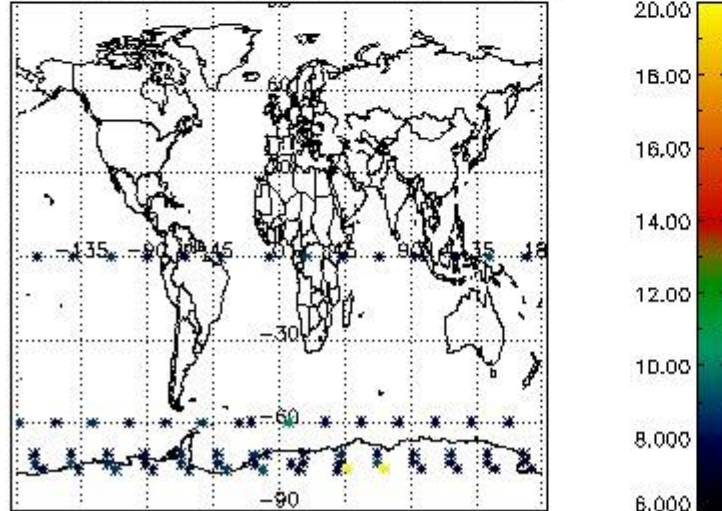
Percentage of flagged data per O3 profile



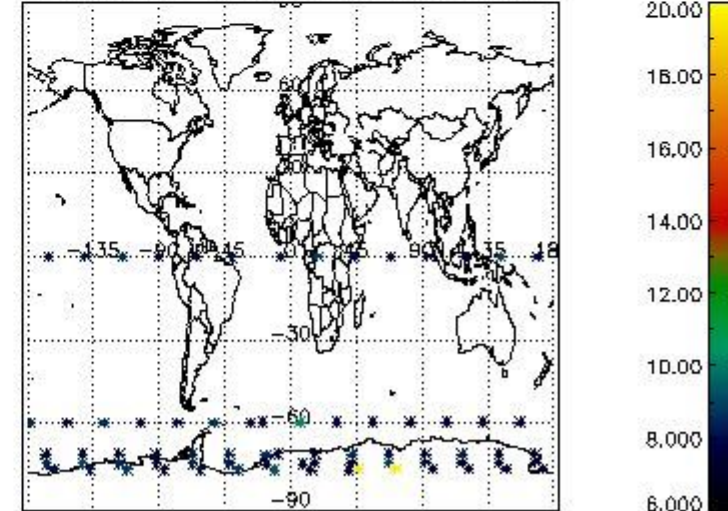
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

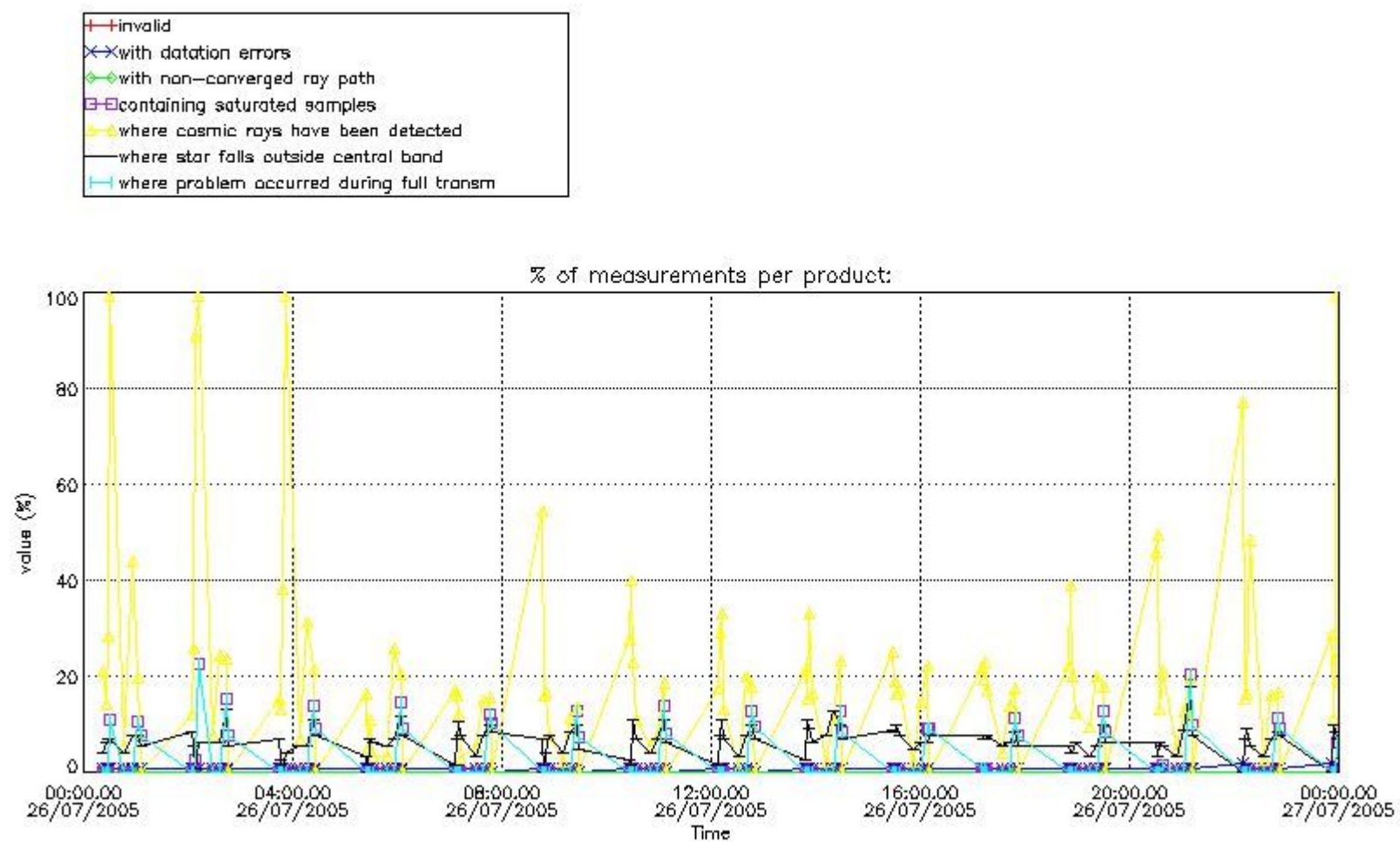


#### 4. Level 1 quality information per product

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.

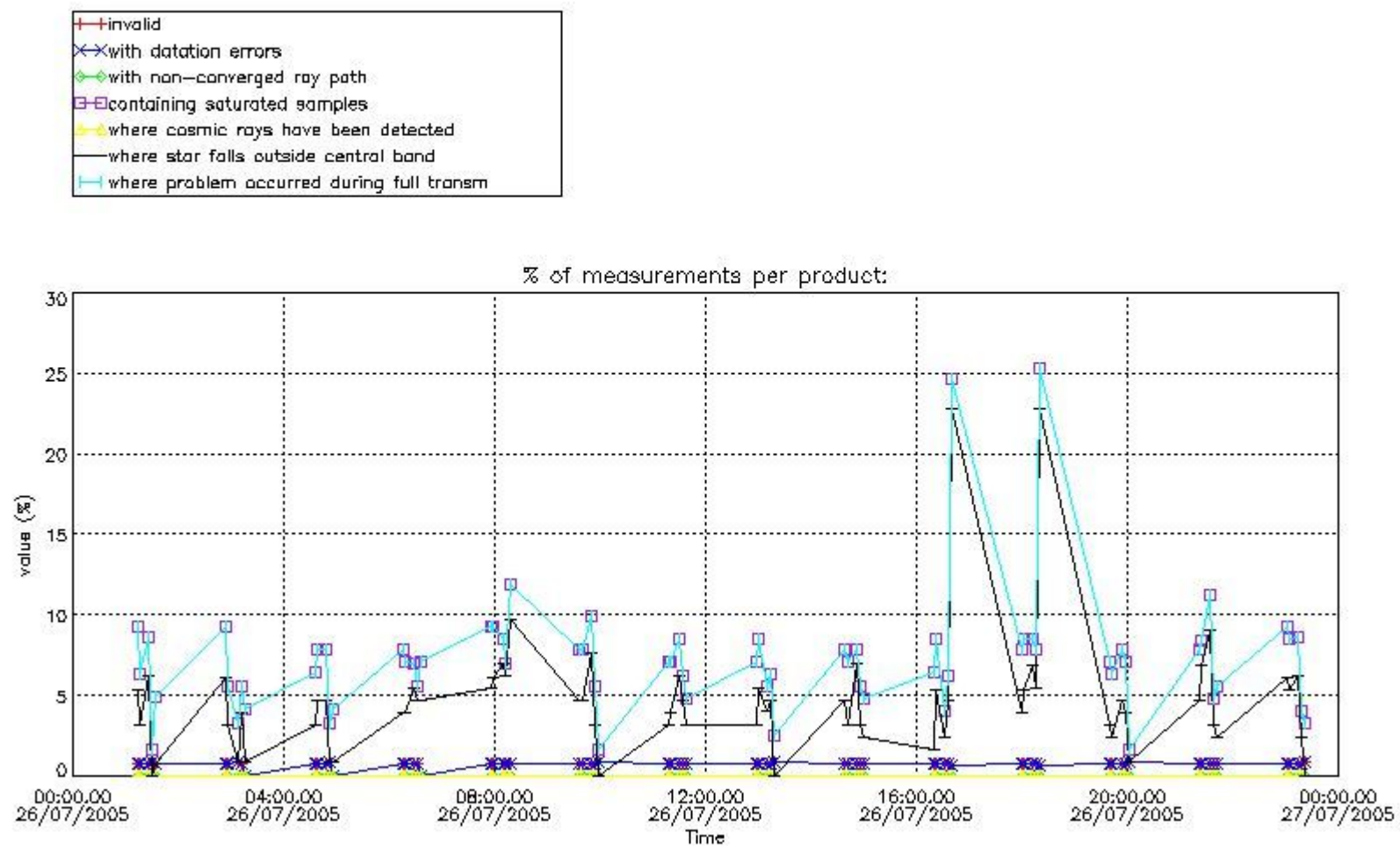
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

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



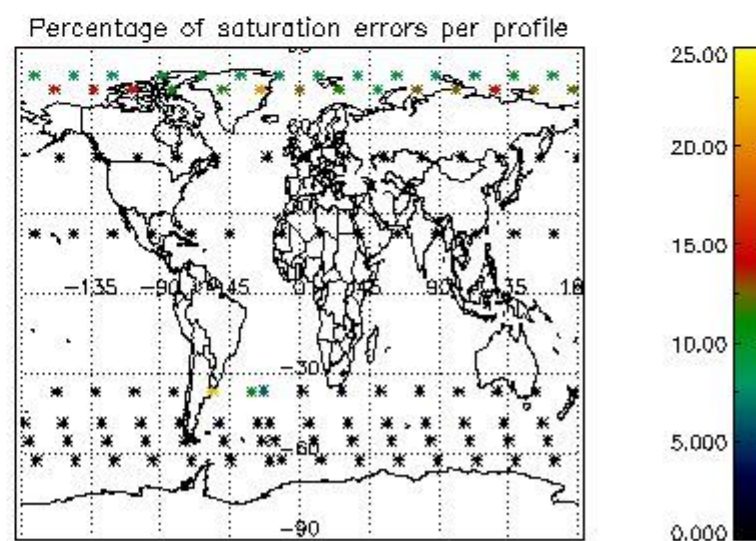
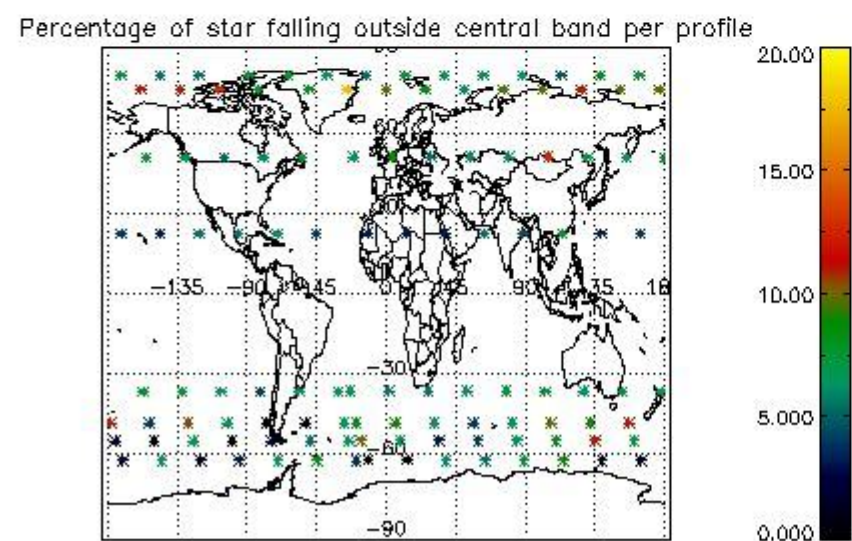
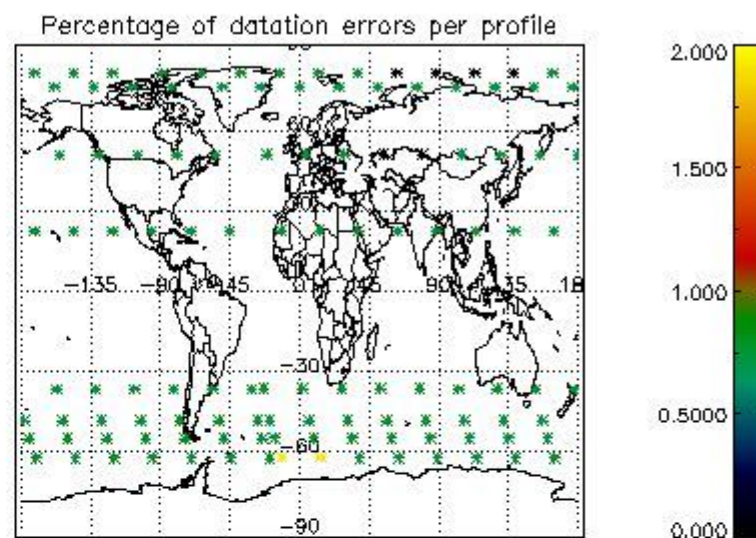
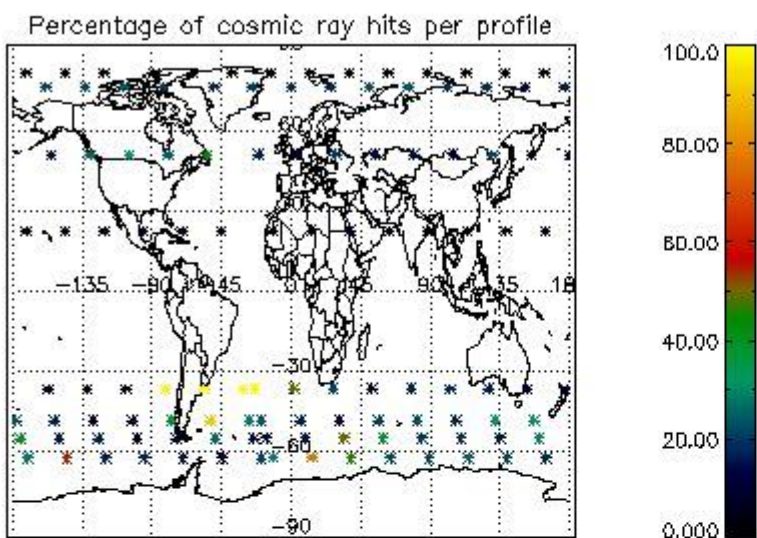
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



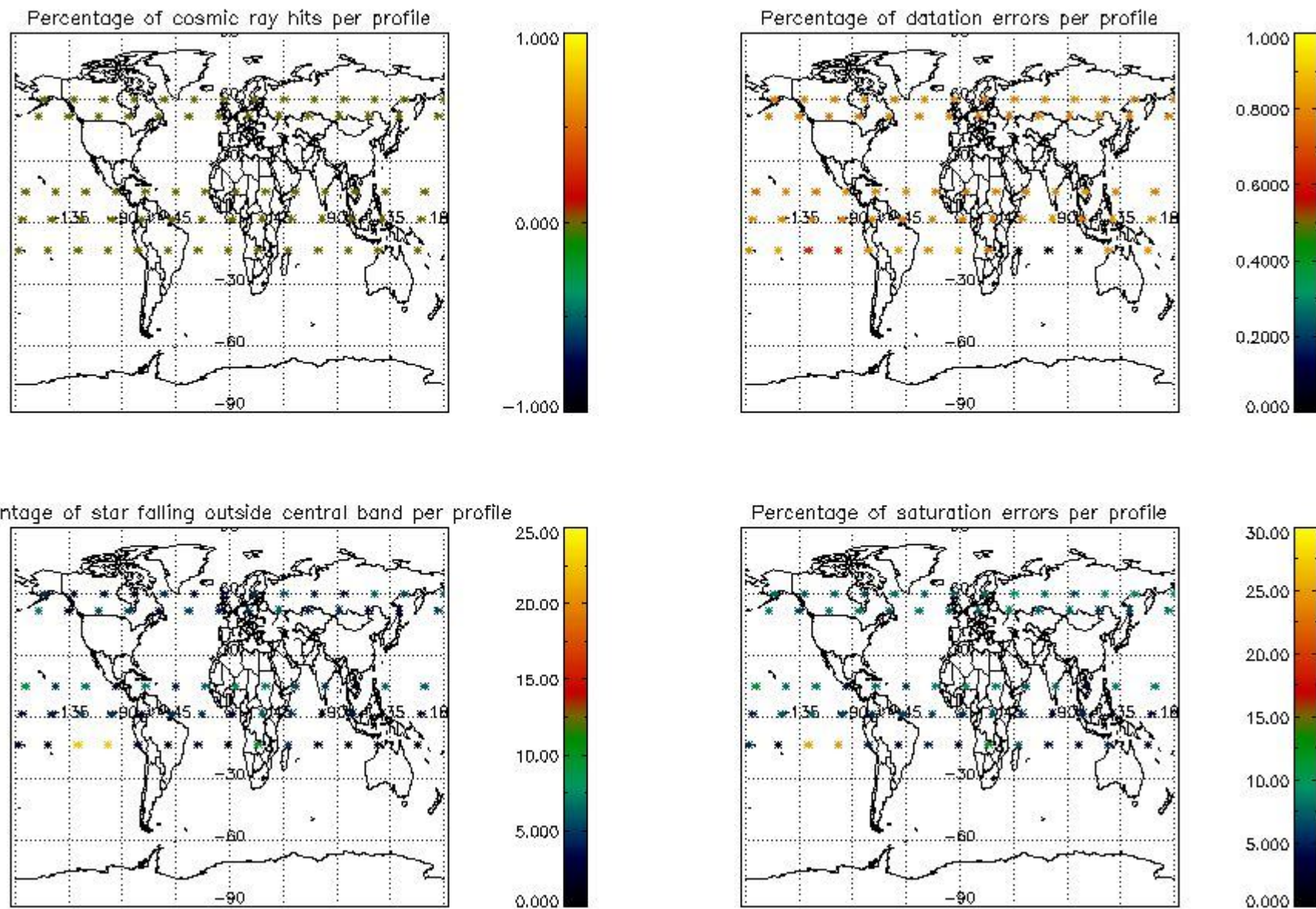


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

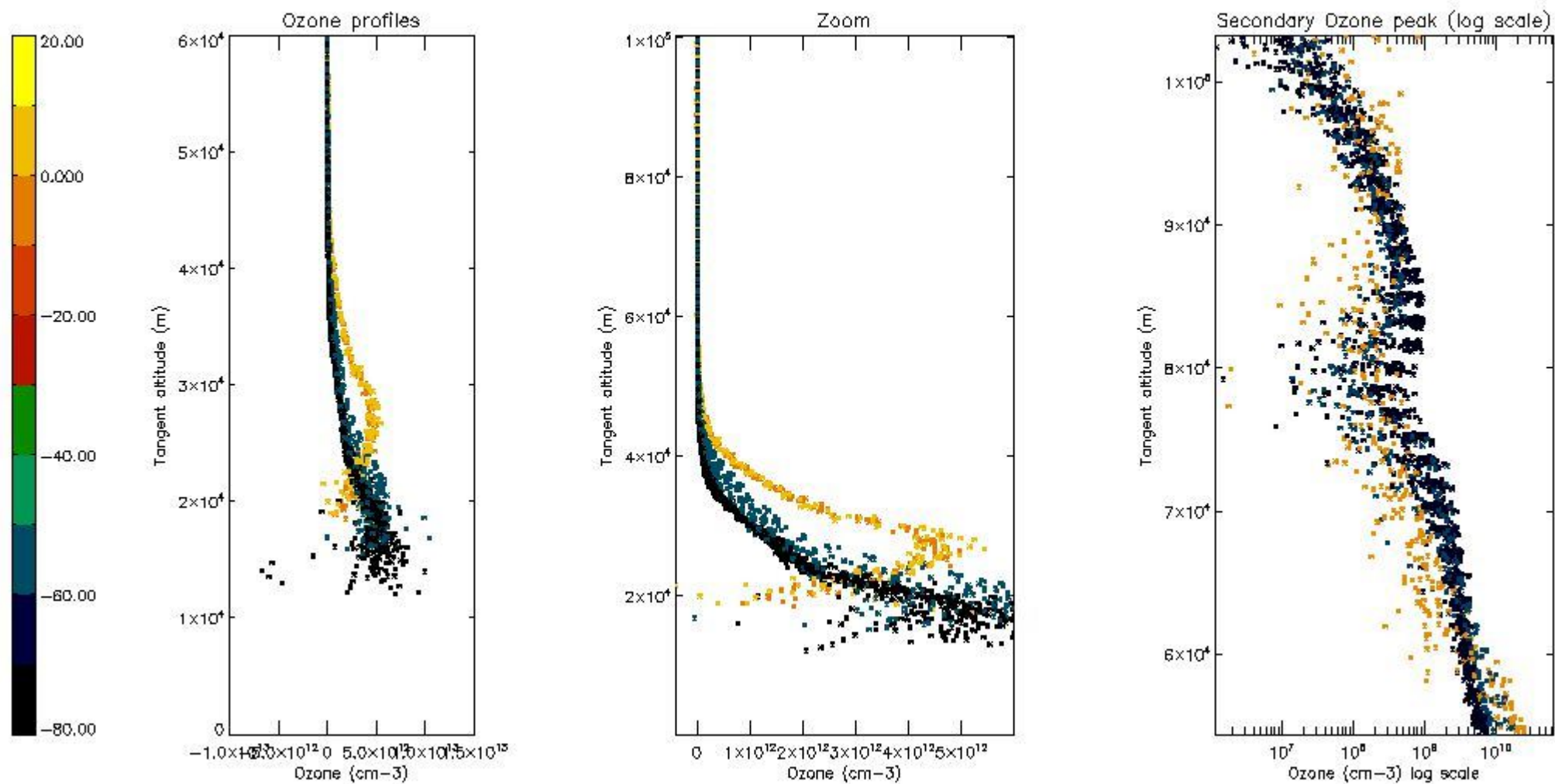
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	40
STD < 20	15

STD < 10	13
STD < 5	9

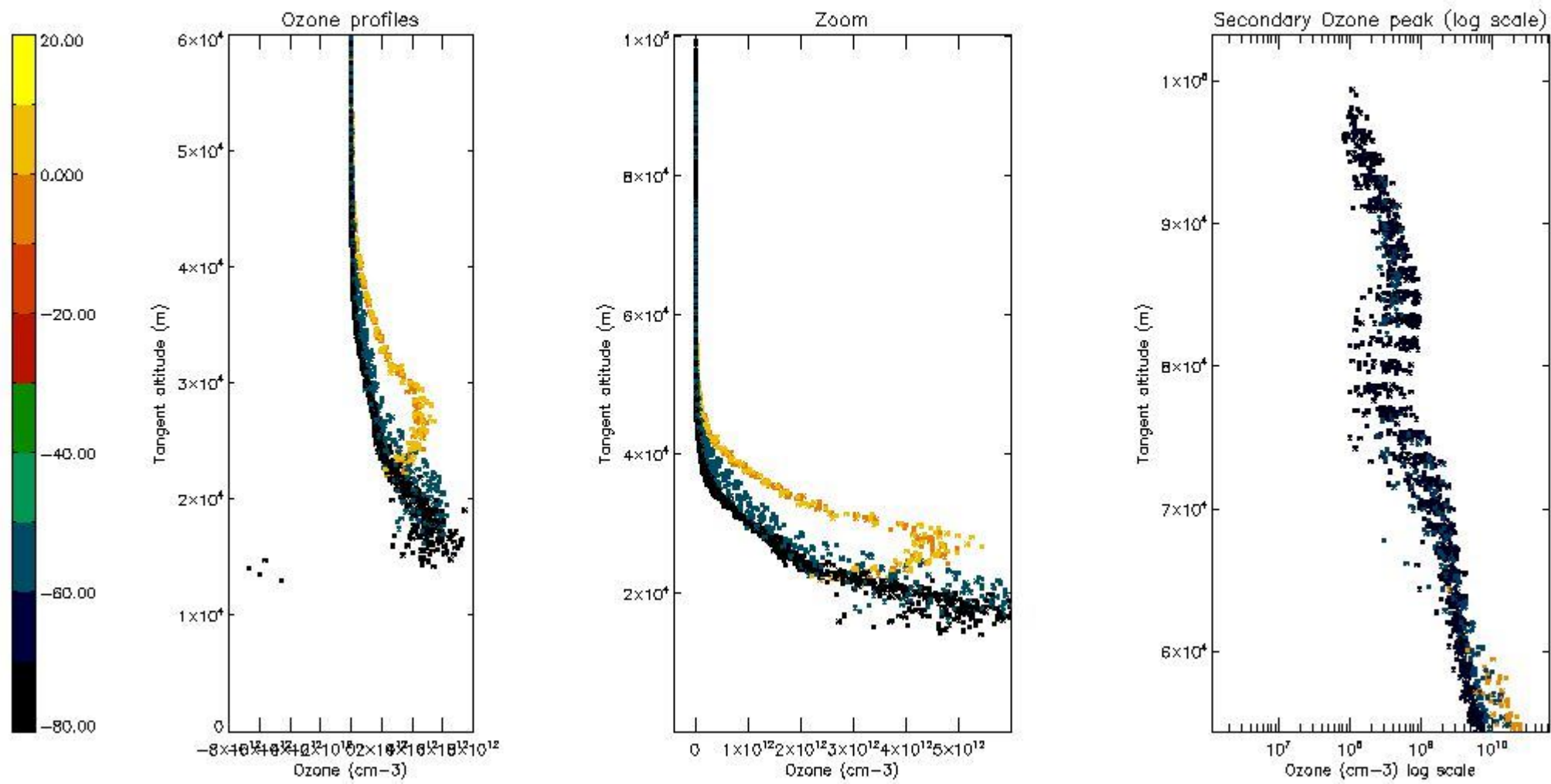
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



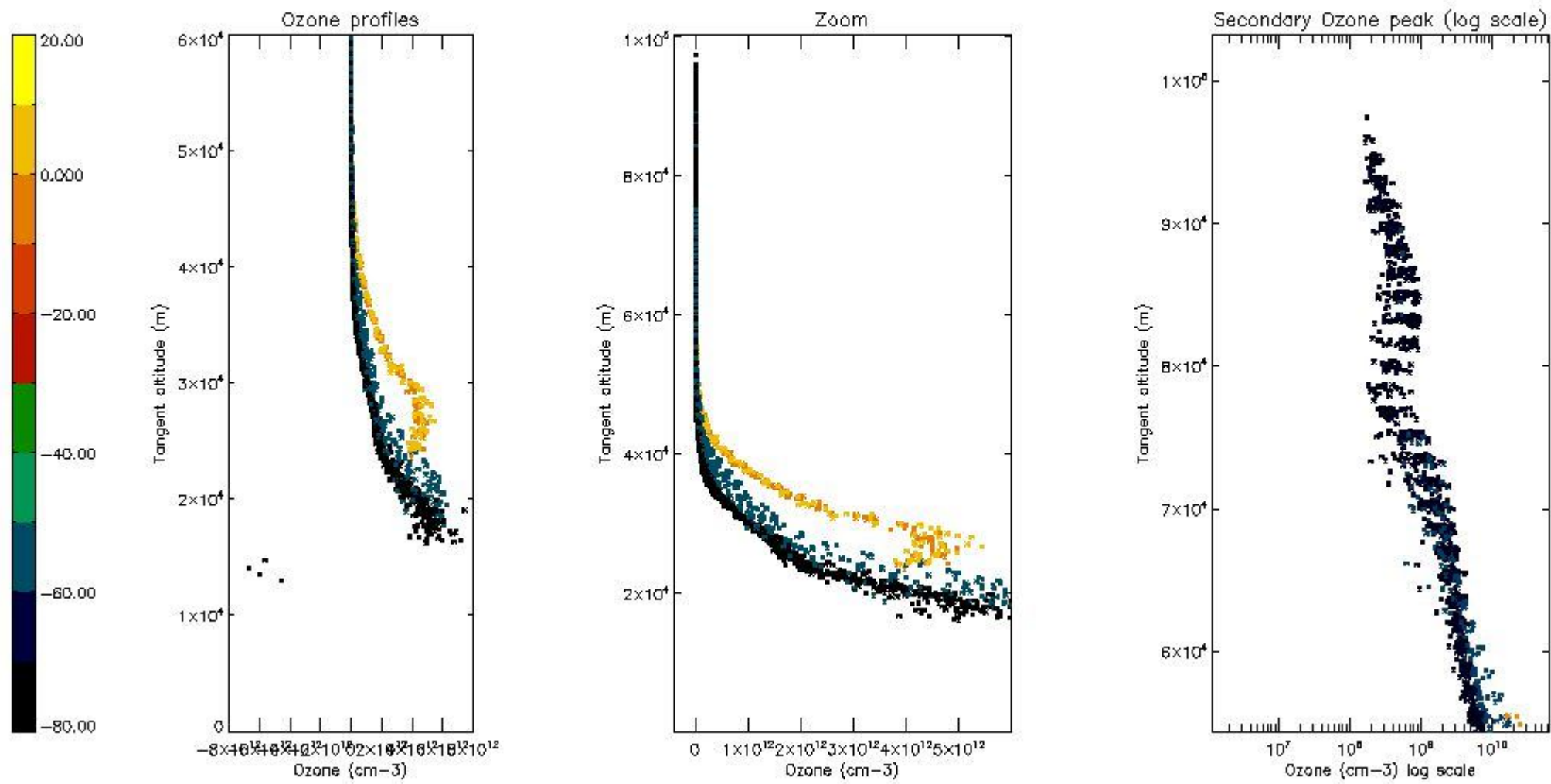
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



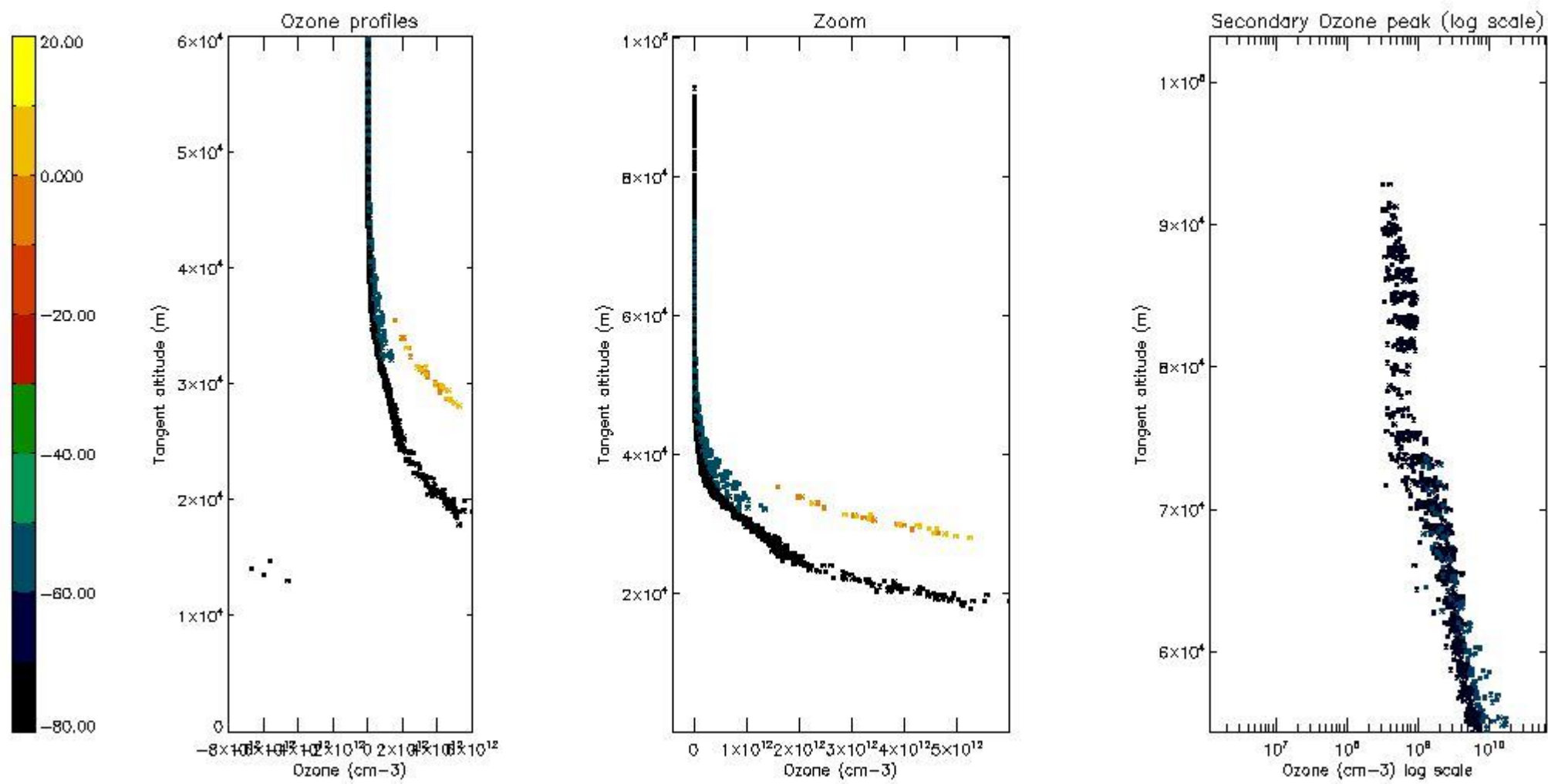
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



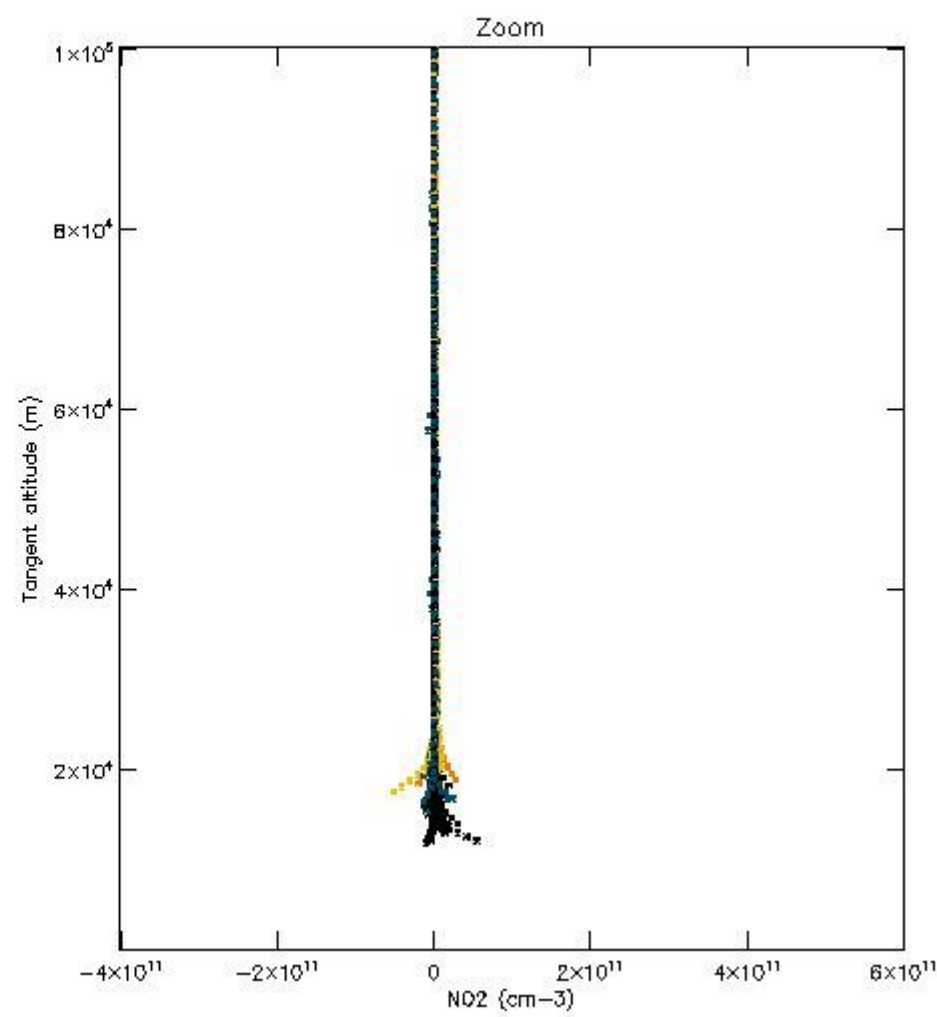
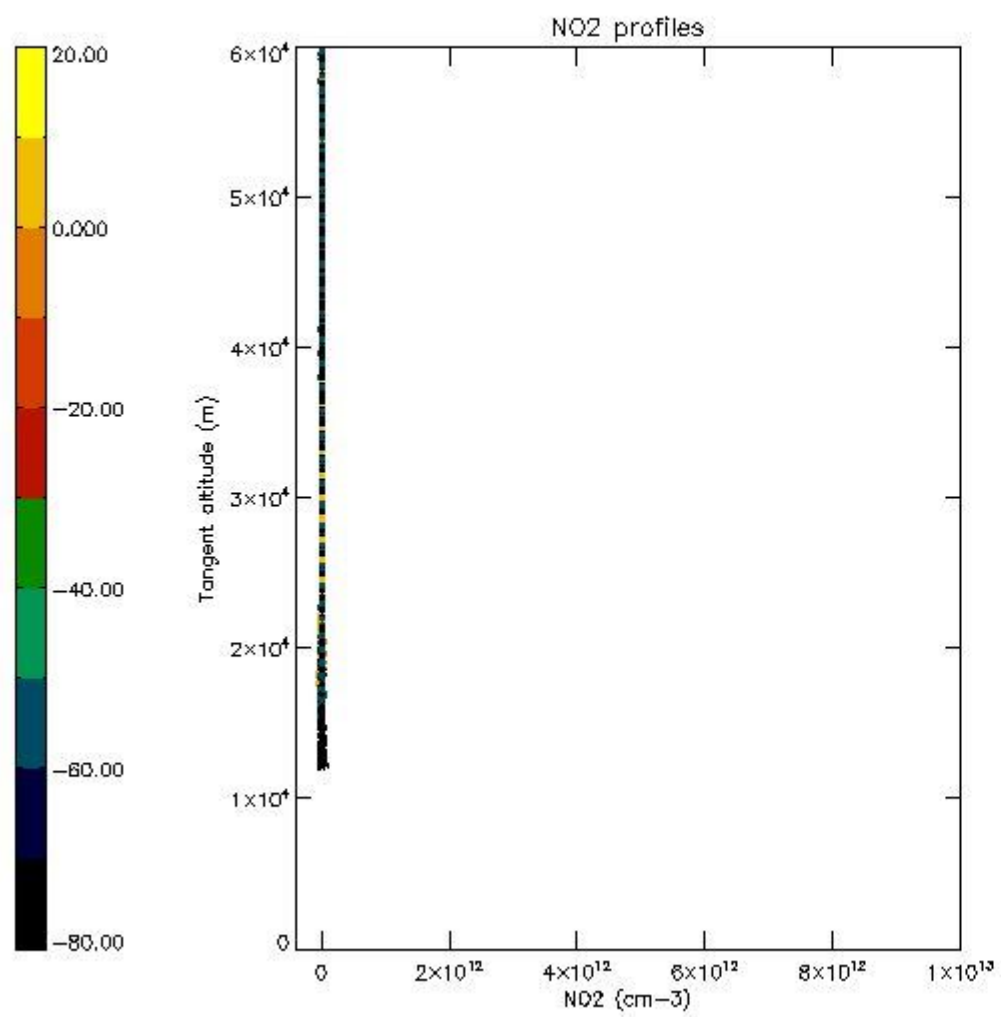
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



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

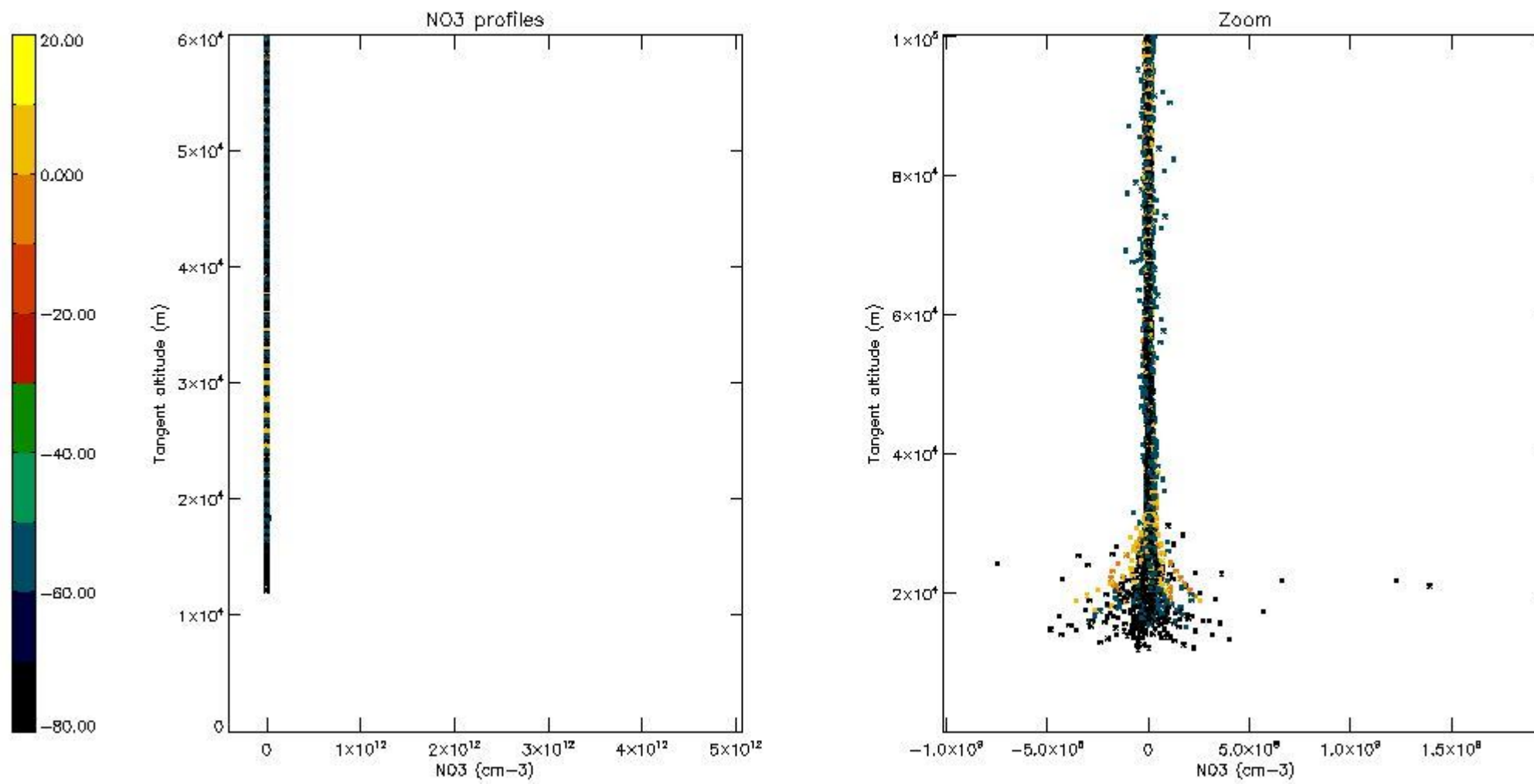
The colorbar represents the latitude.



*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	26-JUL-2005 00:22:58
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	26-JUL-2005 00:22:58
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	26-JUL-2005 00:22:58

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#### [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](#)

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

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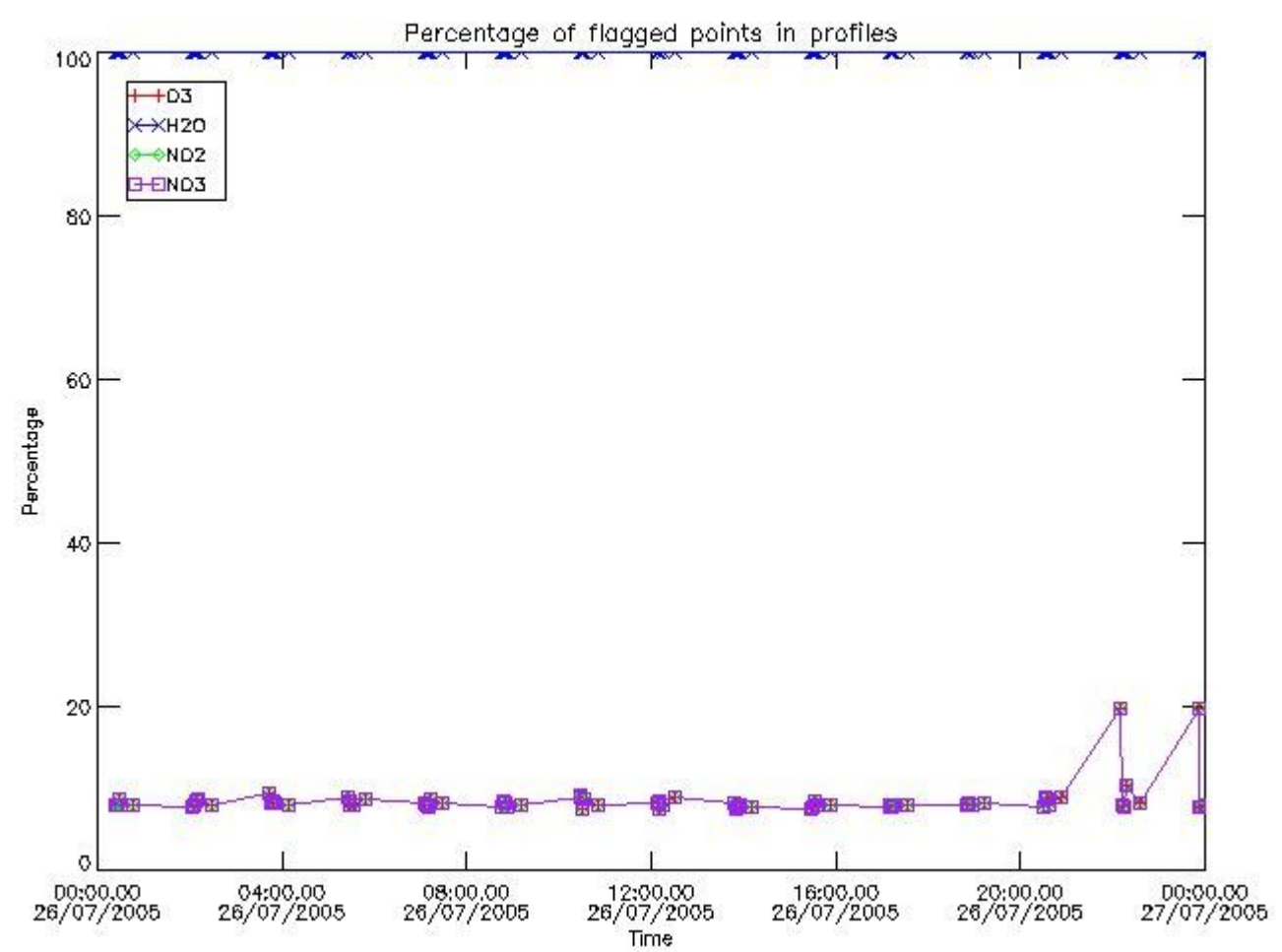


161	GOM_NL__2PRFIN20050726_205413_000000632039_00215_17804_5466.N1	26-JUL-2005 20:54:13	Dark	63.000	135	Bet Hyi	2.8200	5800.0	126	17804	No
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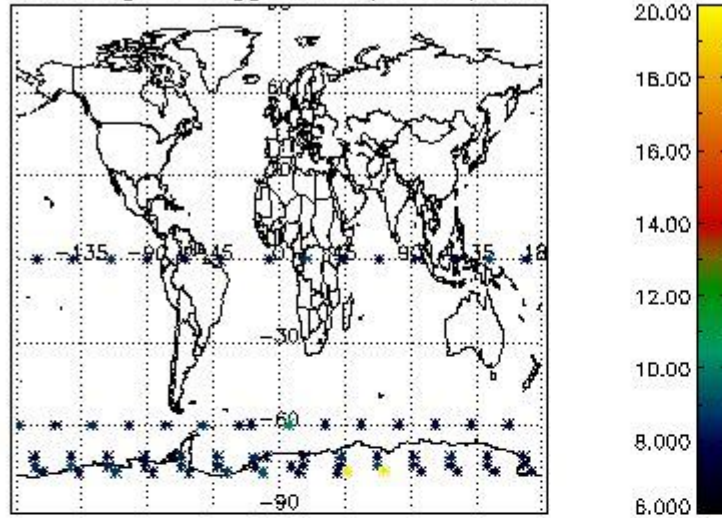
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#### 3.1 Plot quality information per product (time dependant)

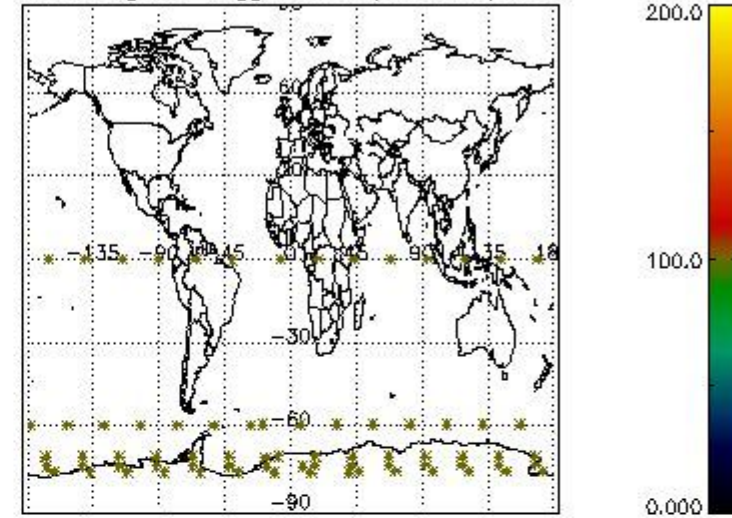


*3.2 Plot quality information per product (world map)*

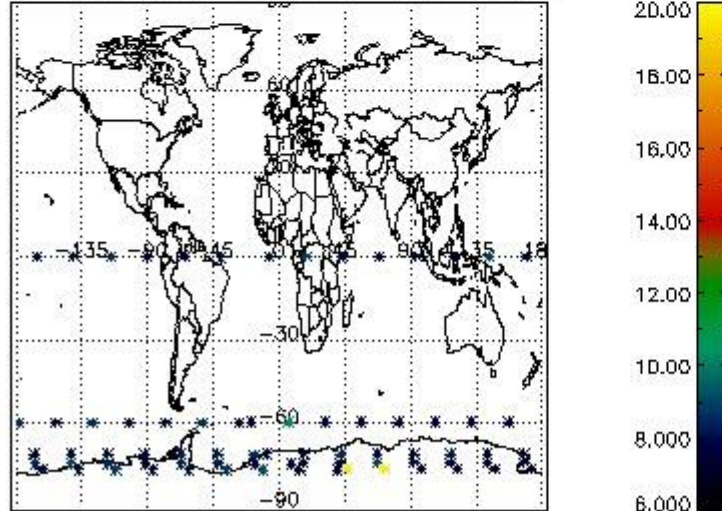
Percentage of flagged data per O3 profile



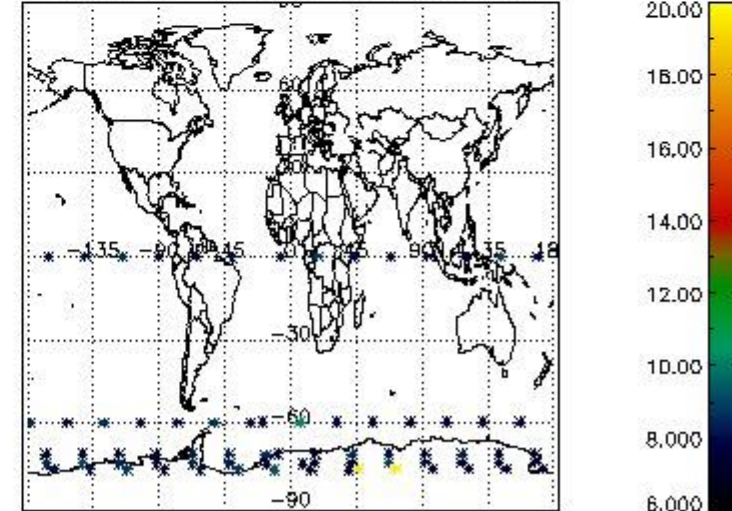
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



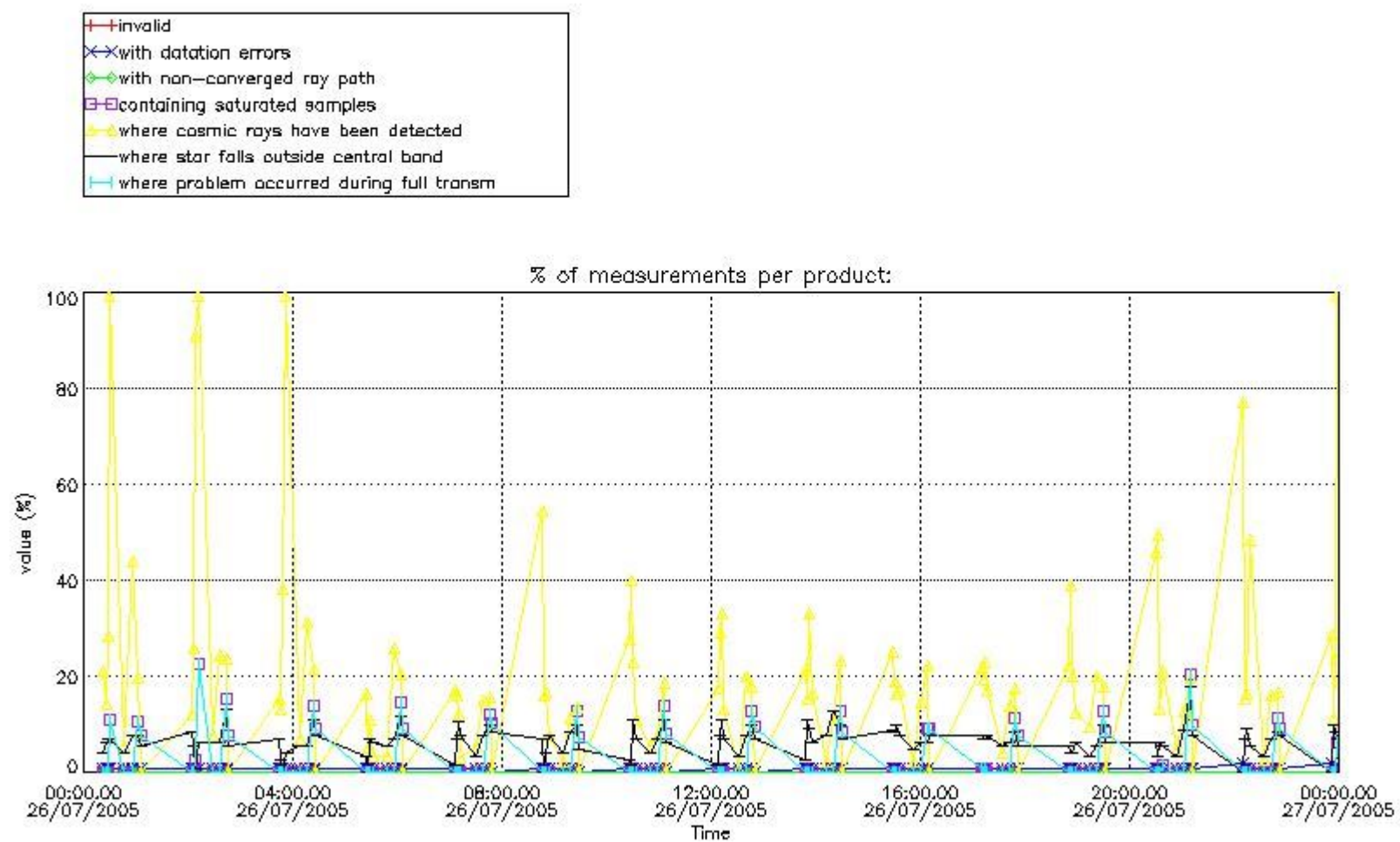
#### 4. Level 1 quality information per product

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.

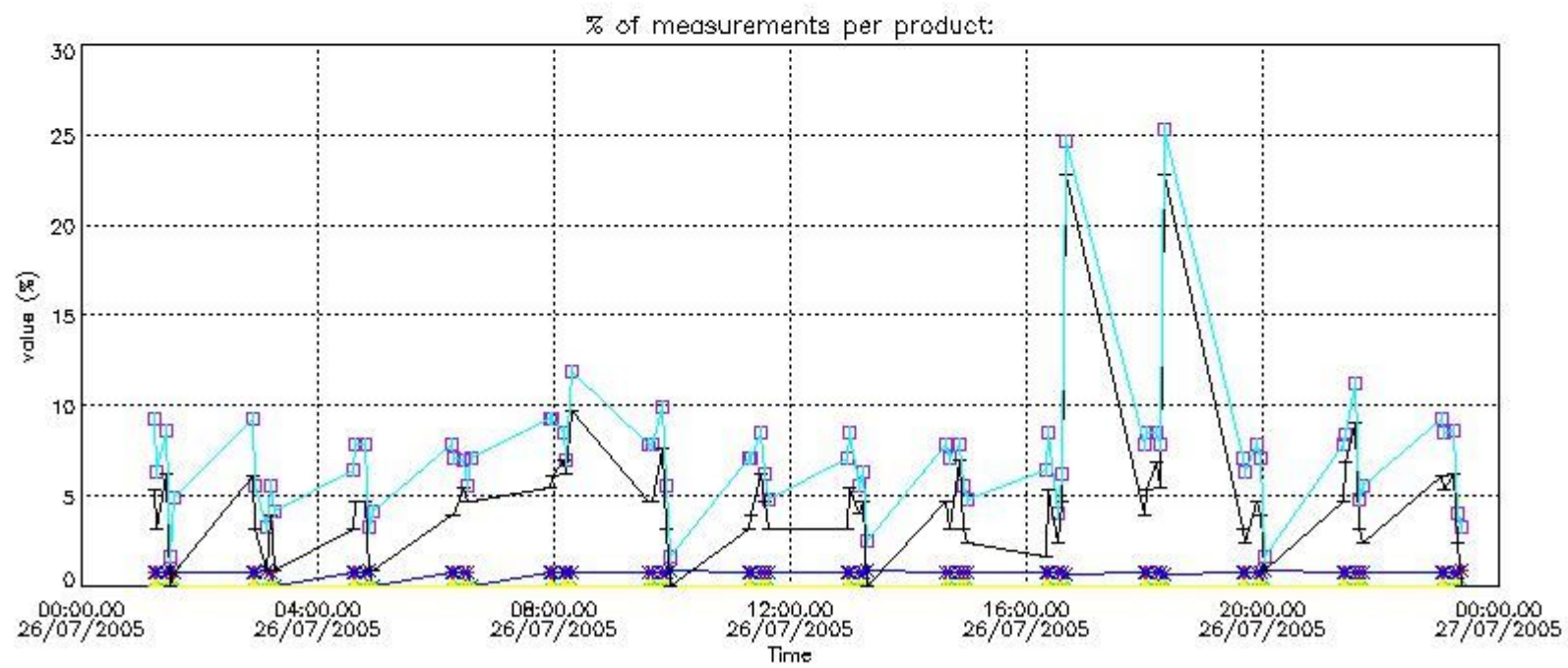
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

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



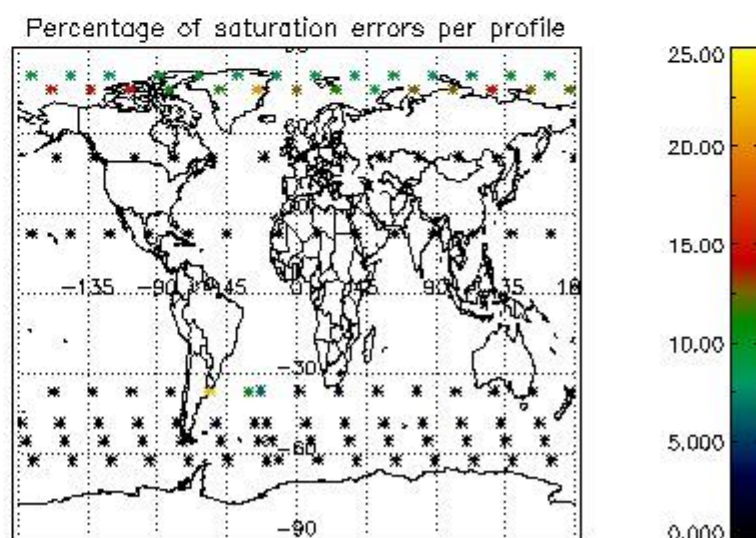
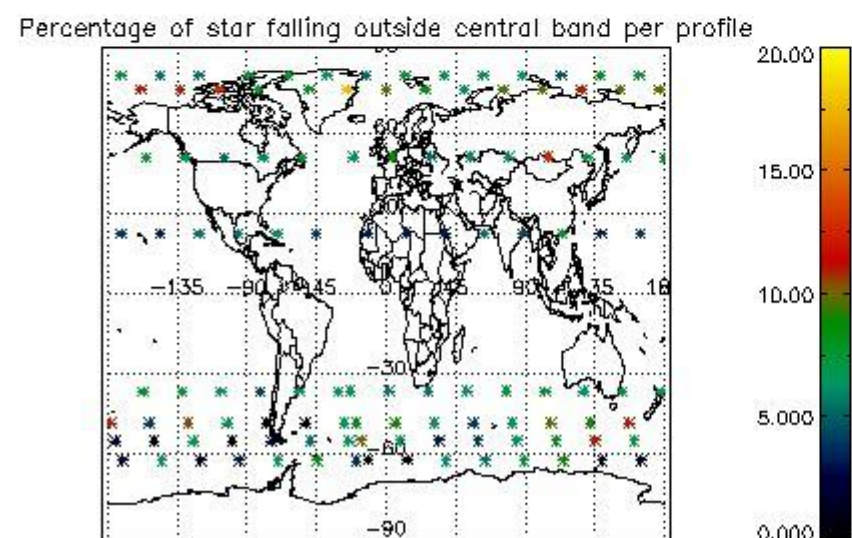
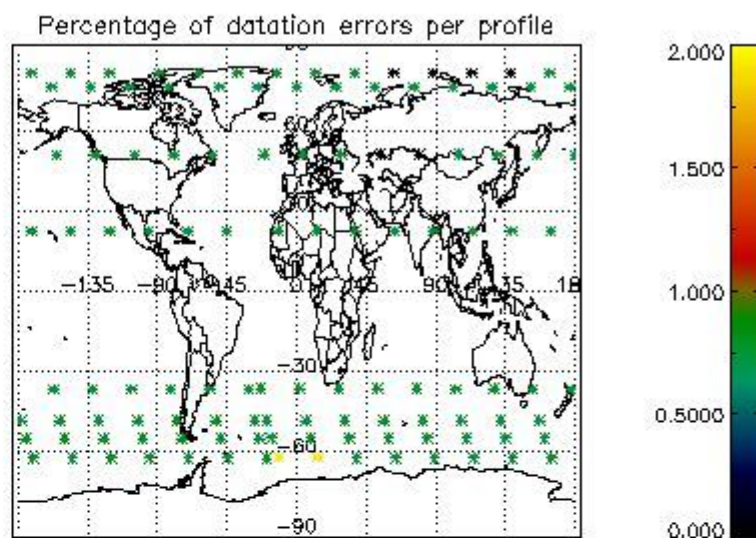
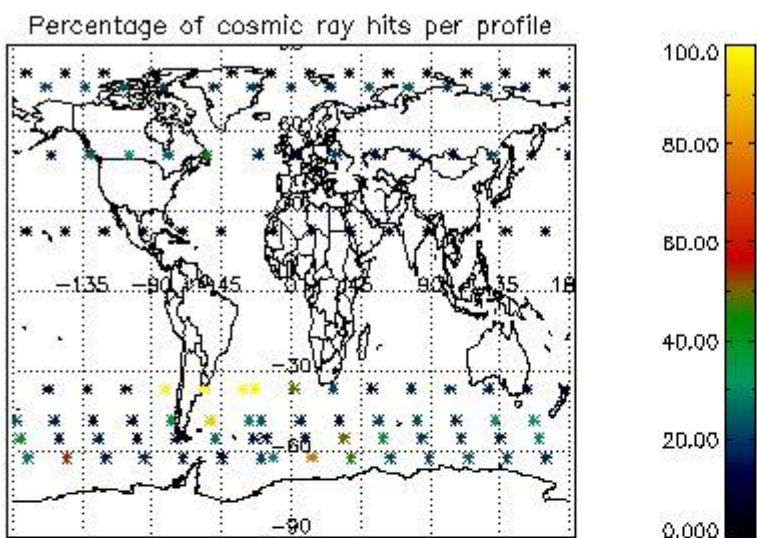


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

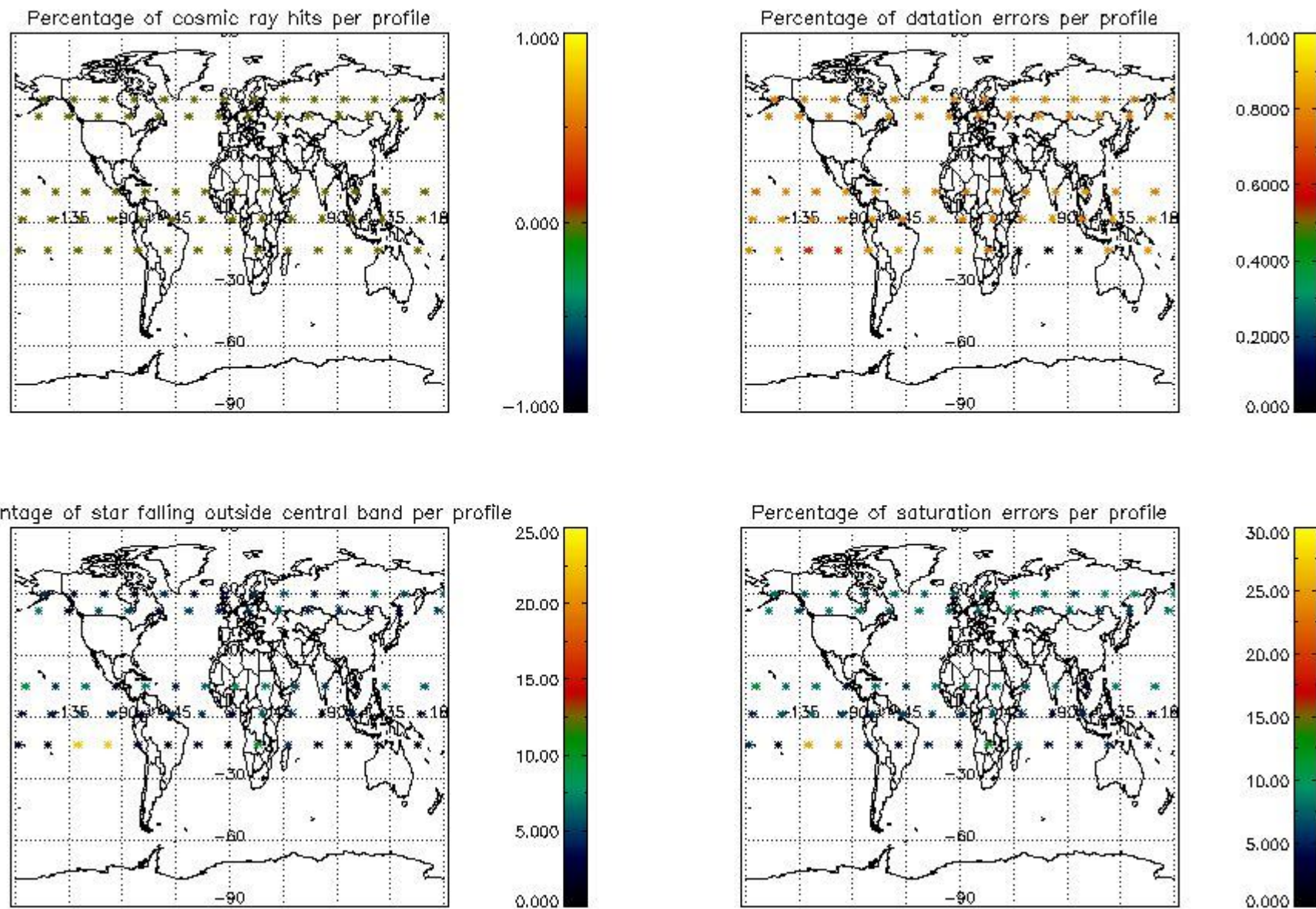


4.2 Plot quality information per product coming from level 1b processing (world map)

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

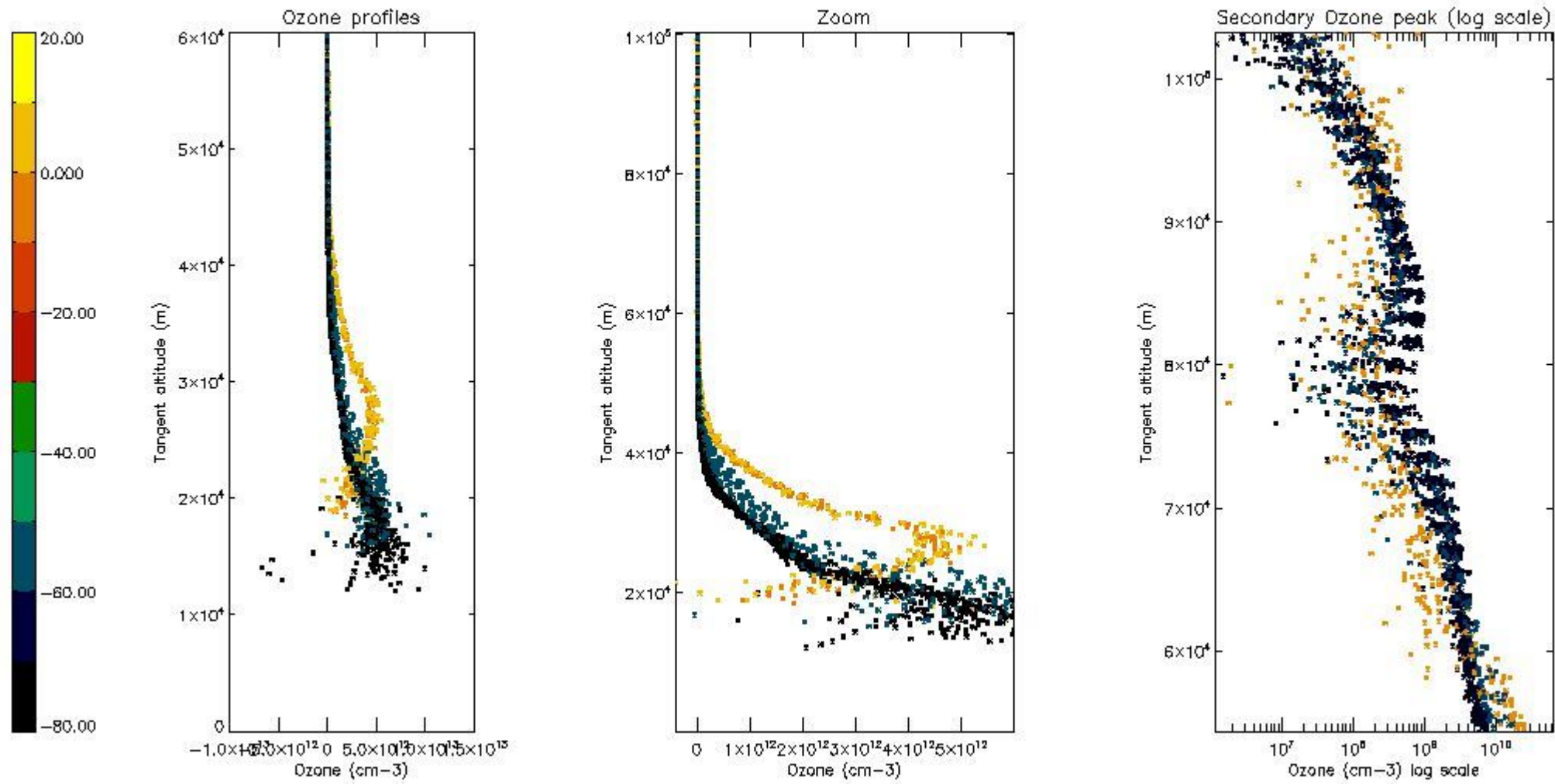
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	40
STD < 20	15

STD < 10	13
STD < 5	9

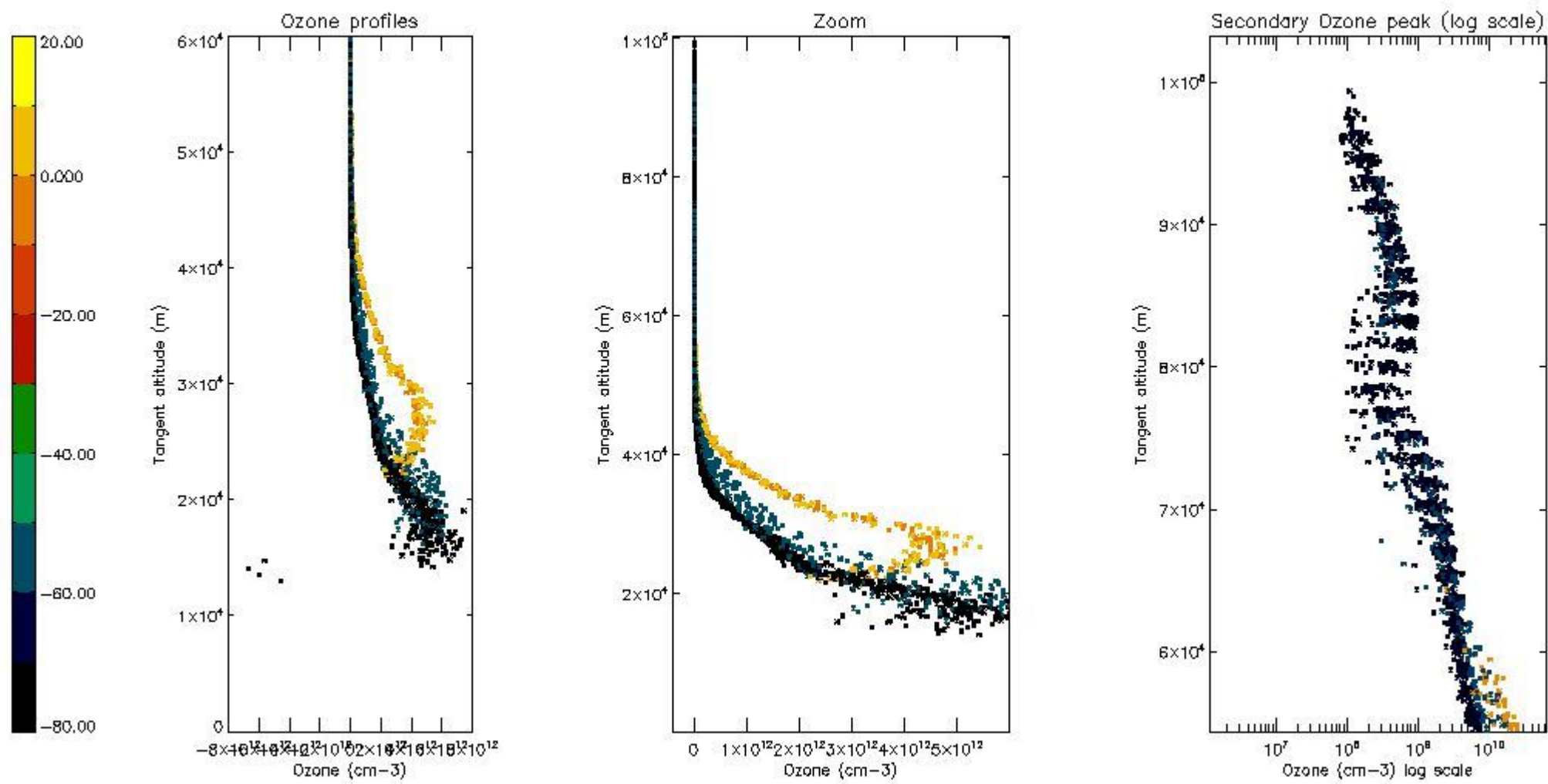
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



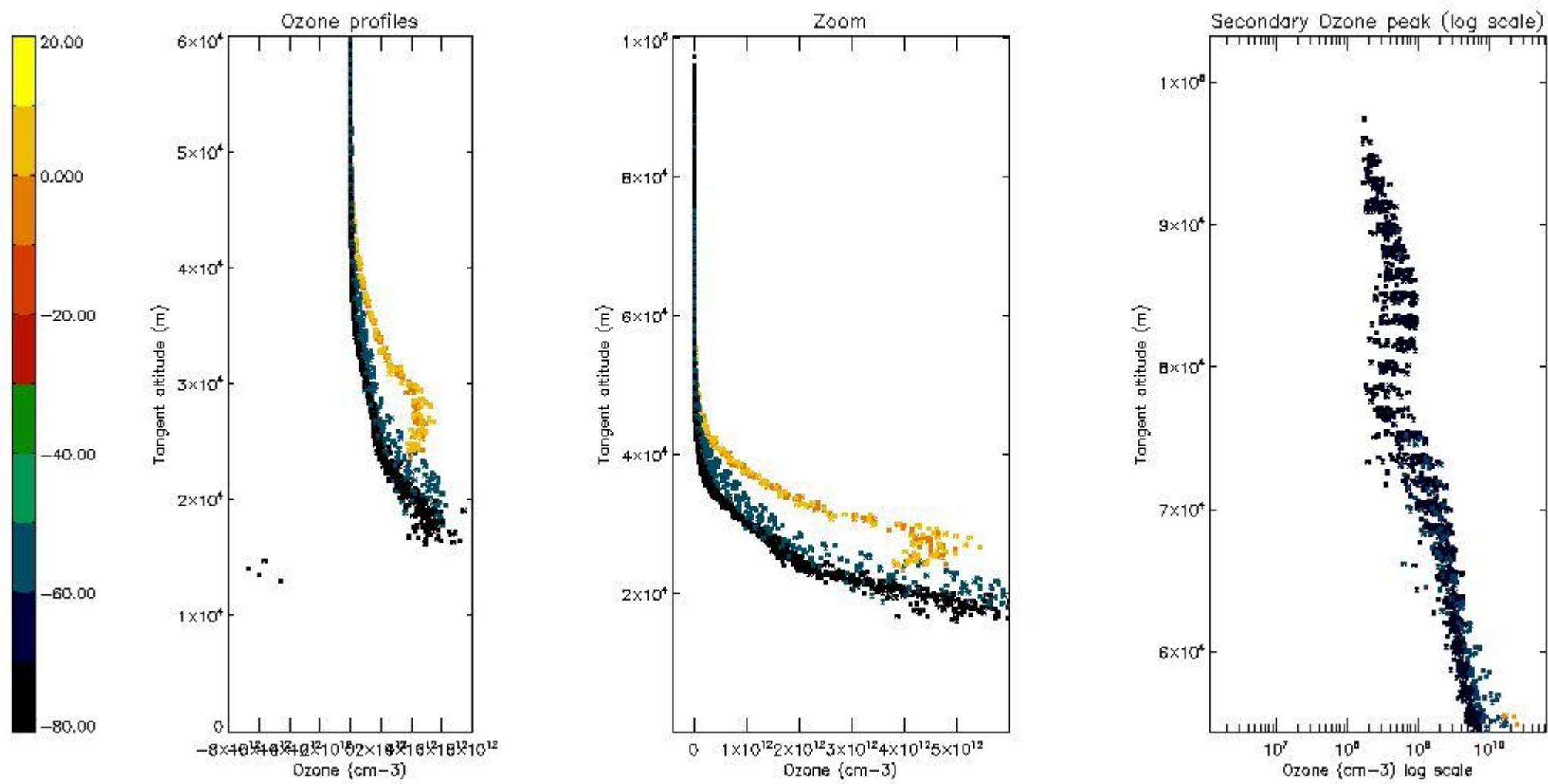
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



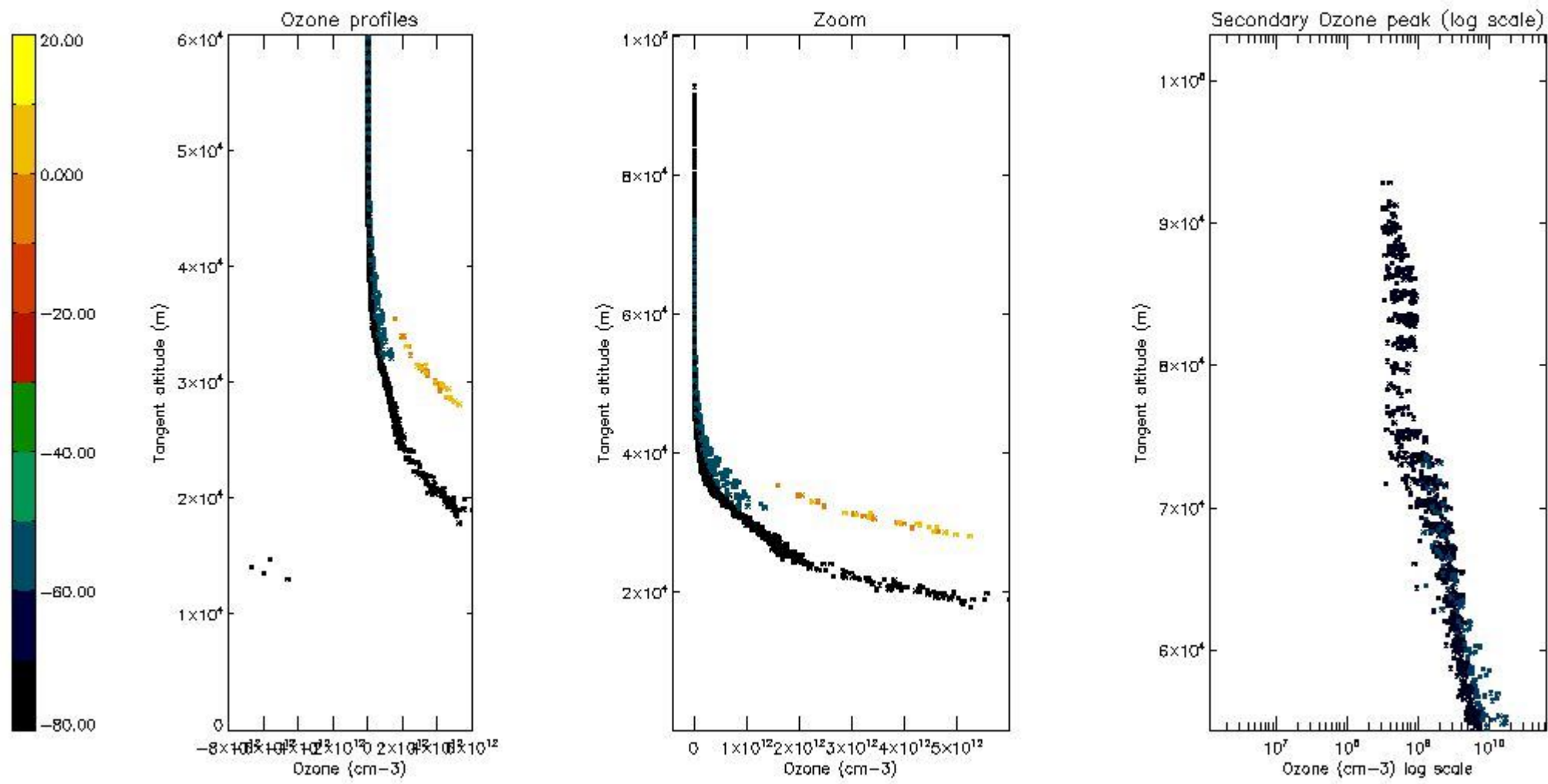
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



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

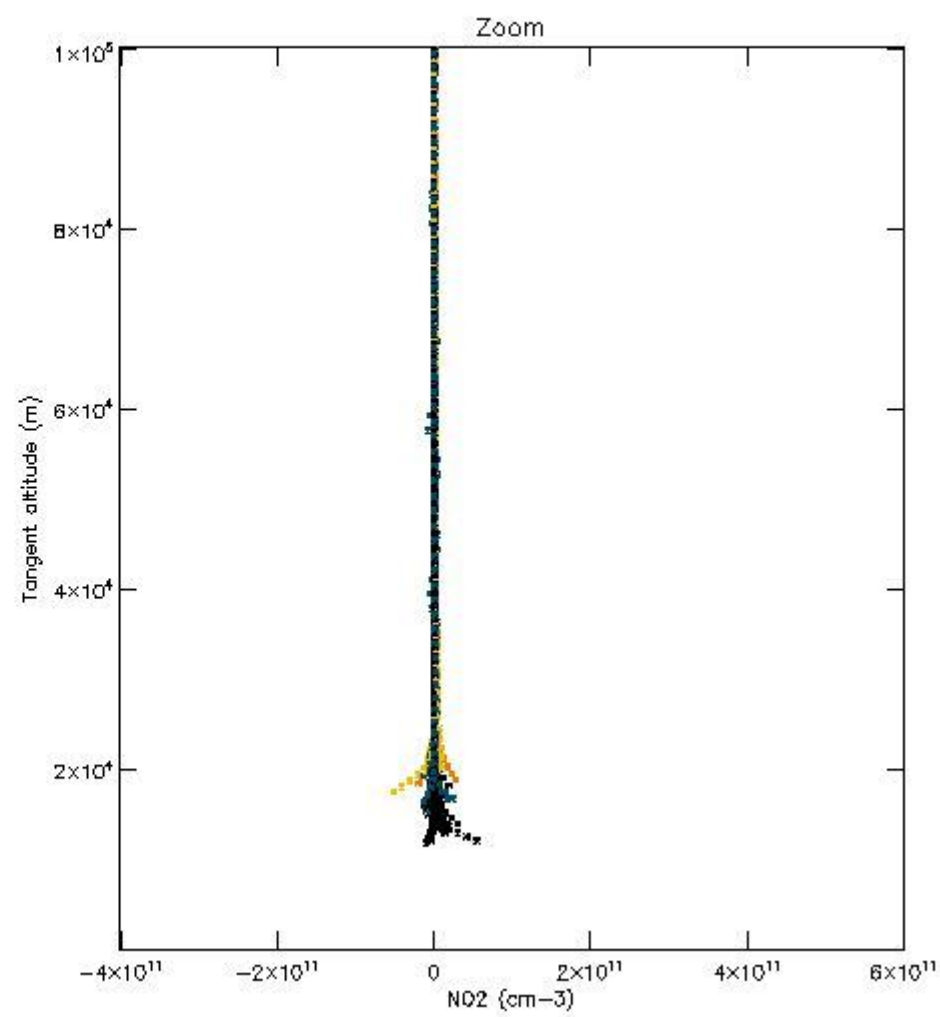
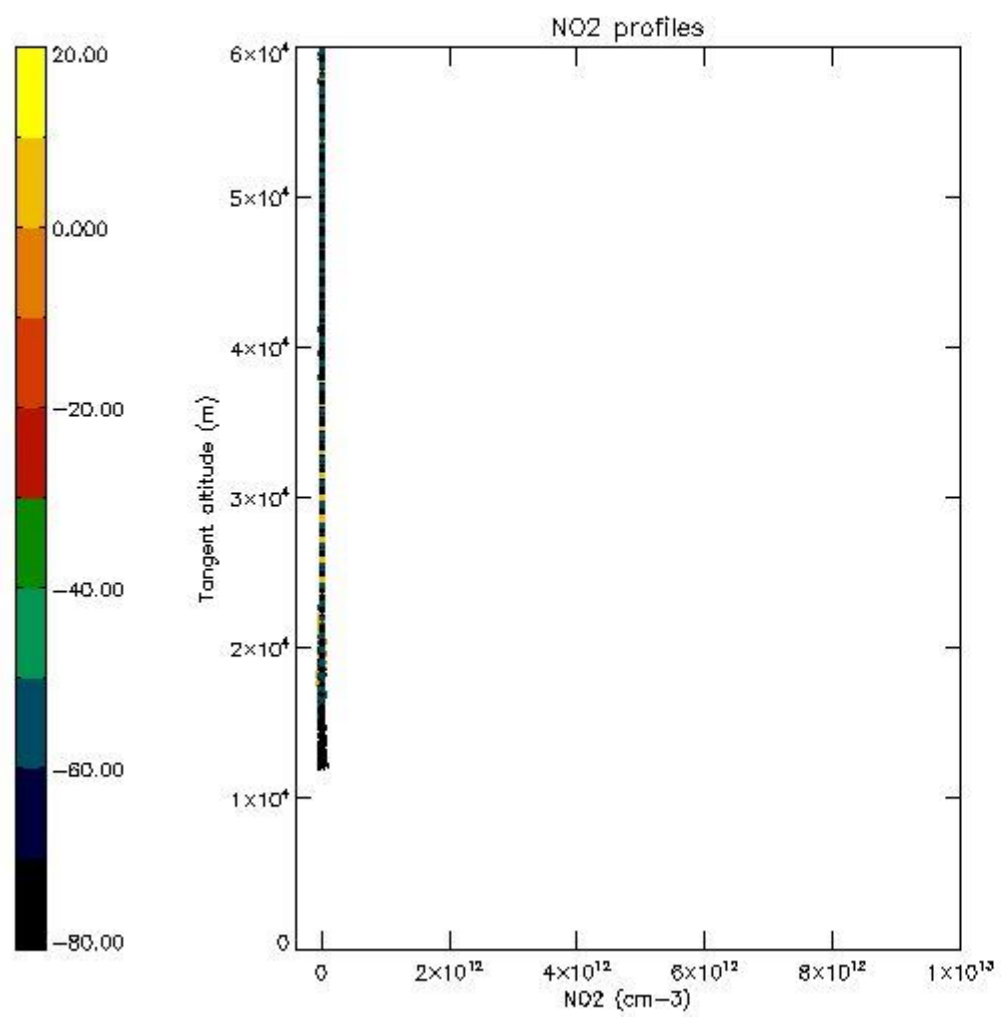
The colorbar represents the latitude.



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

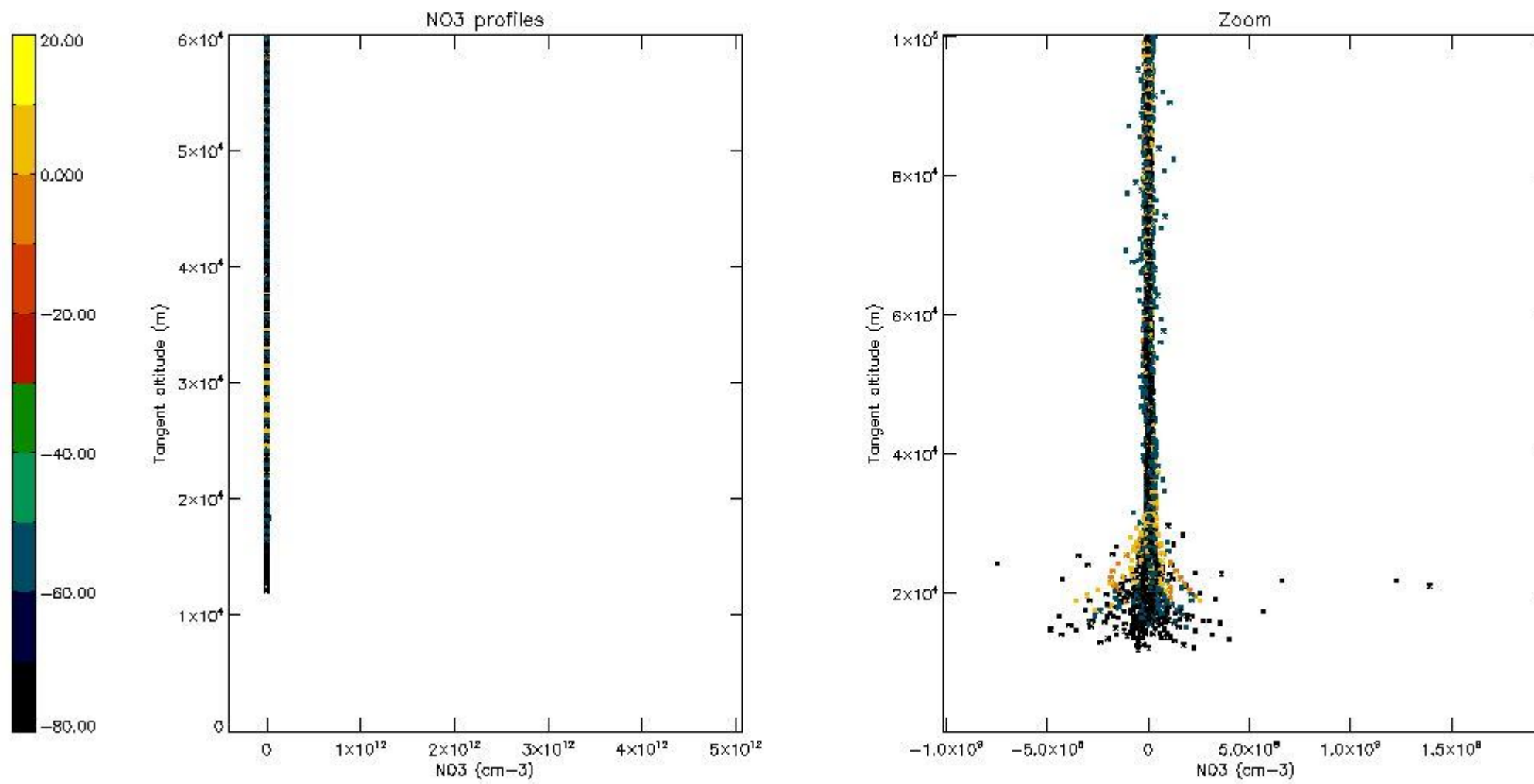
The colorbar represents the latitude.





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

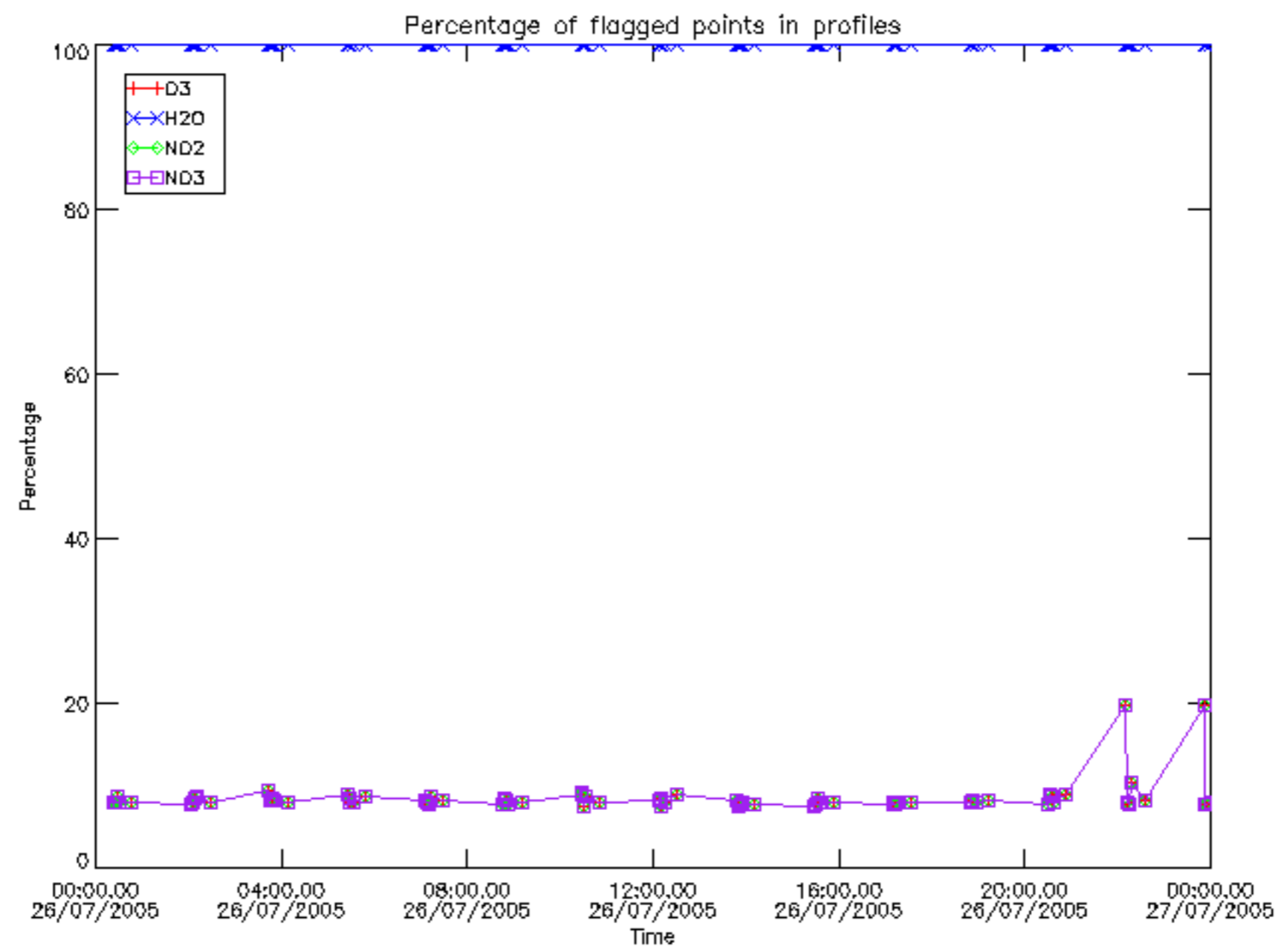
The colorbar represents the latitude.



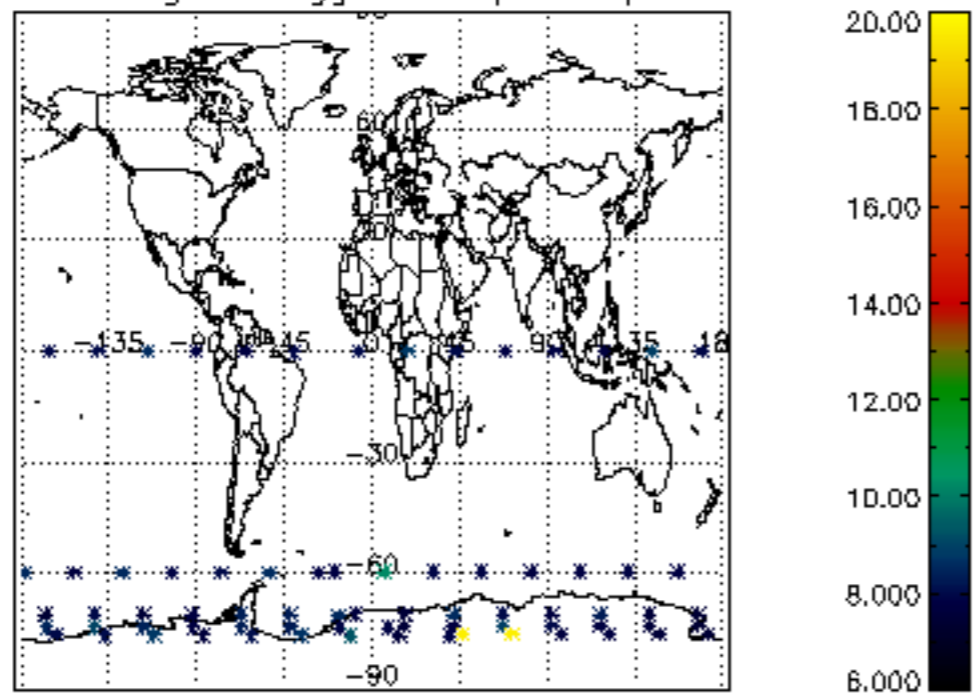
## 6. Auxiliary Data Files used for the production reported in section 2

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.

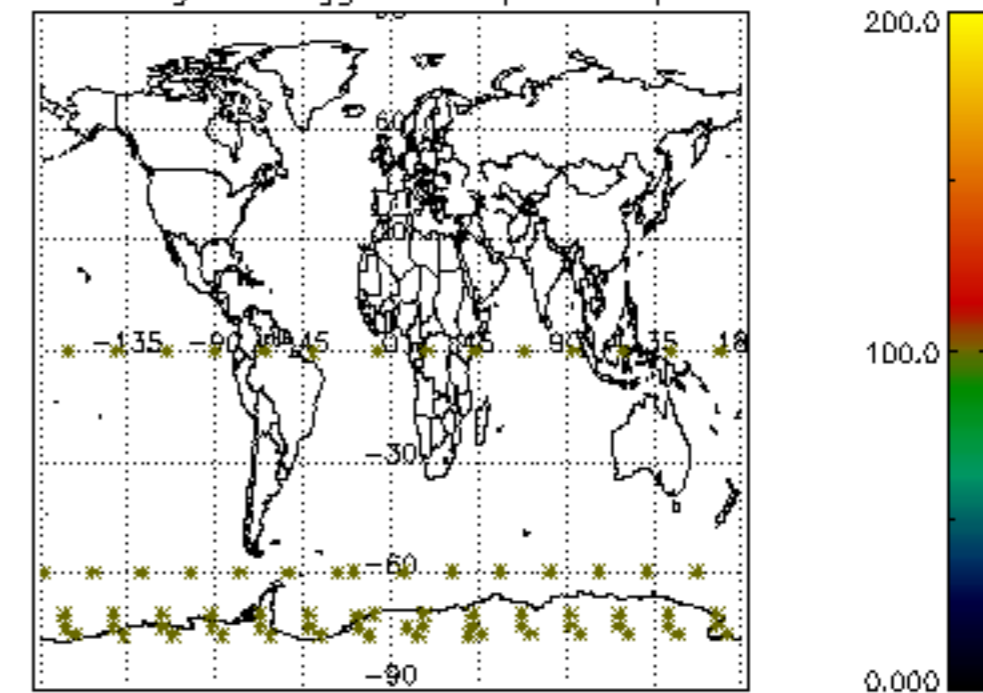
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	26-JUL-2005 00:22:58
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	26-JUL-2005 00:22:58
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	26-JUL-2005 00:22:58



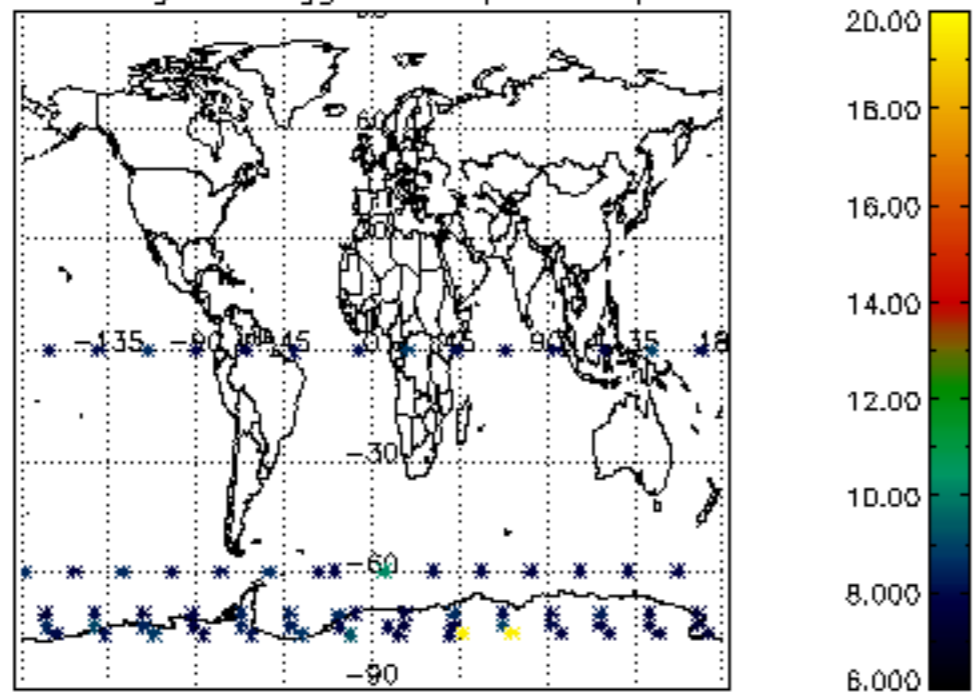
Percentage of flagged data per D3 profile



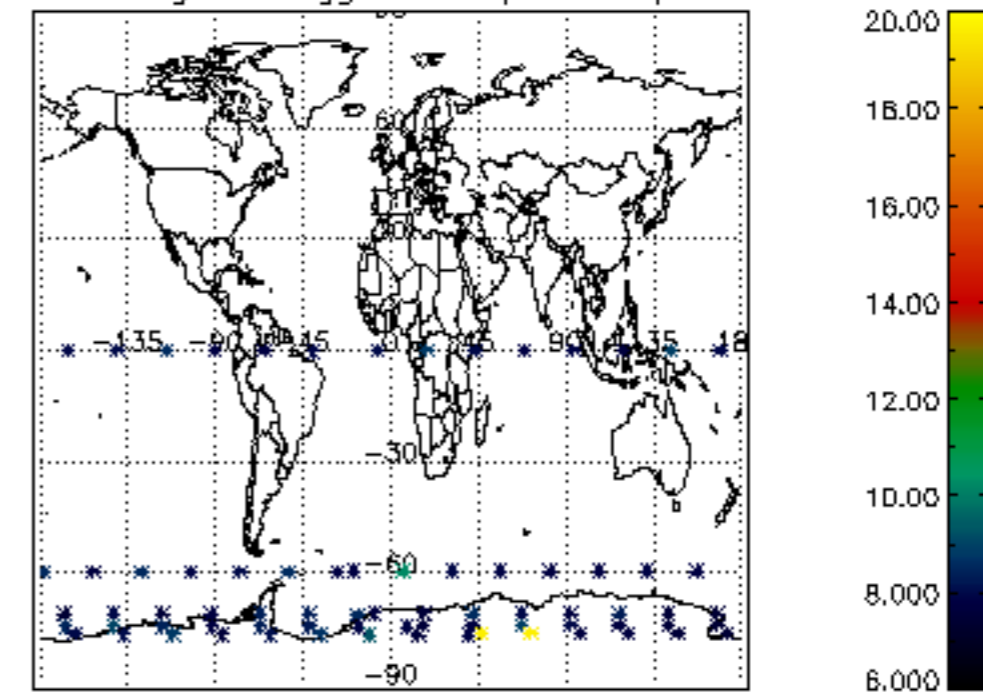
Percentage of flagged data per H2O profile

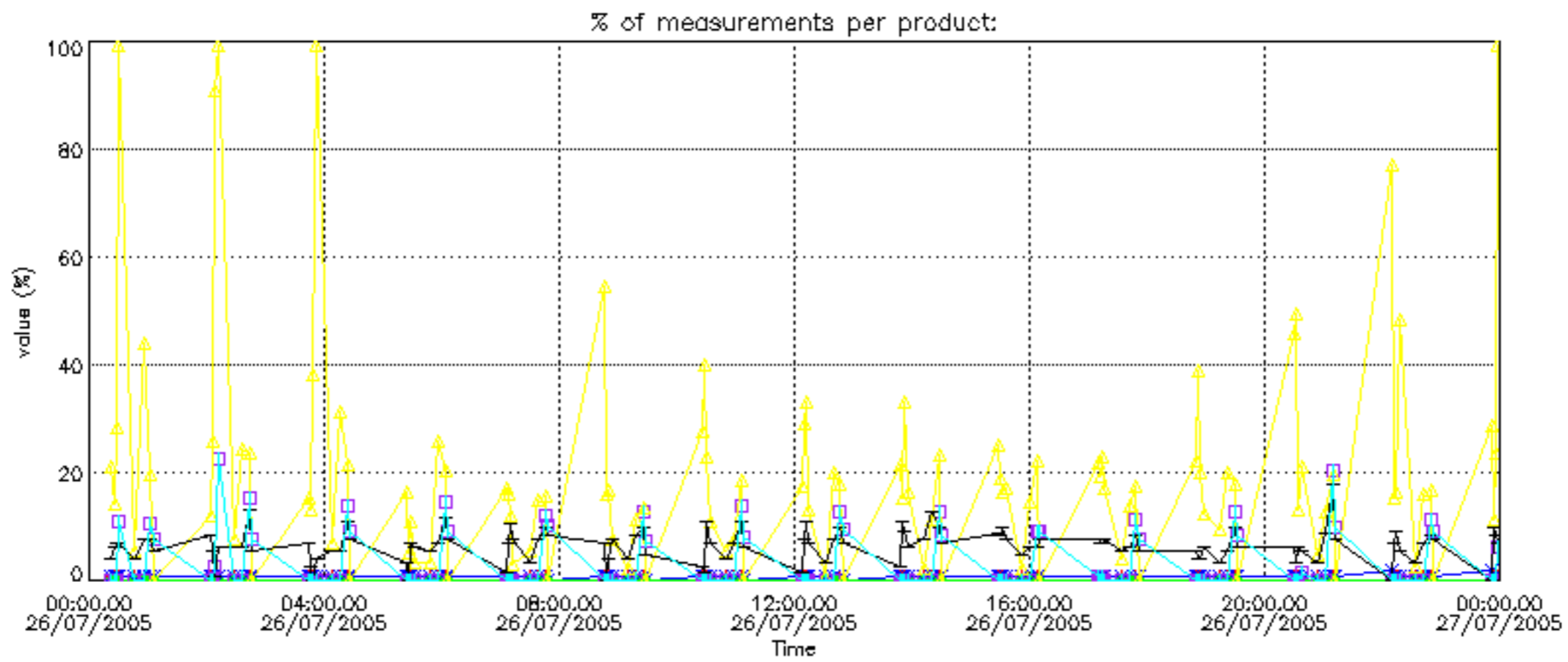


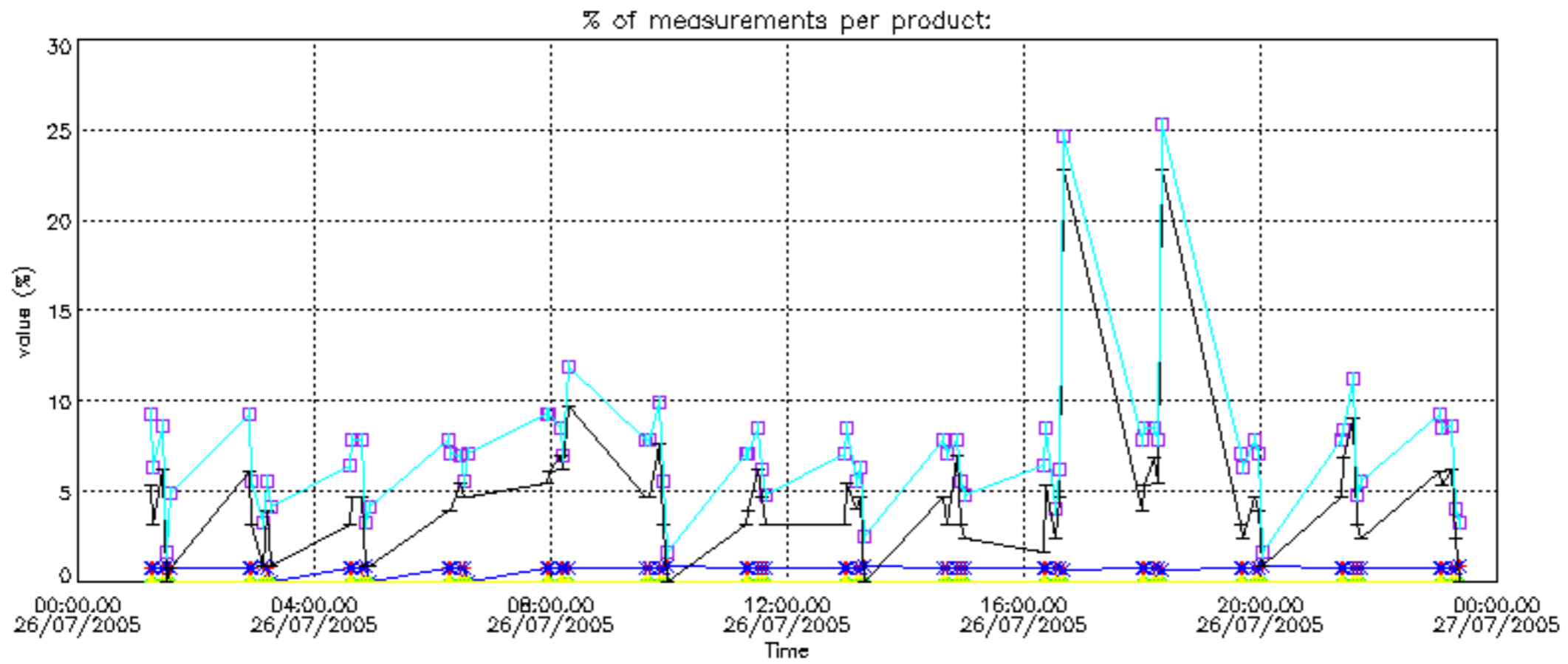
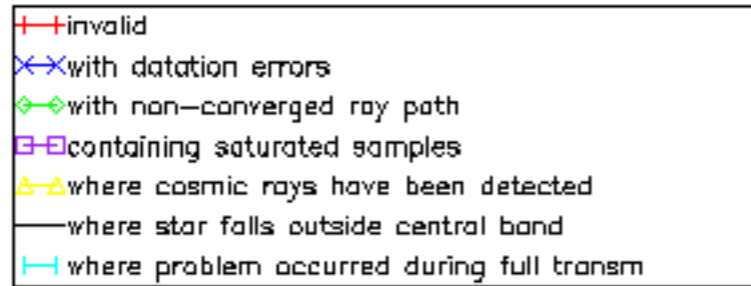
Percentage of flagged data per NO2 profile



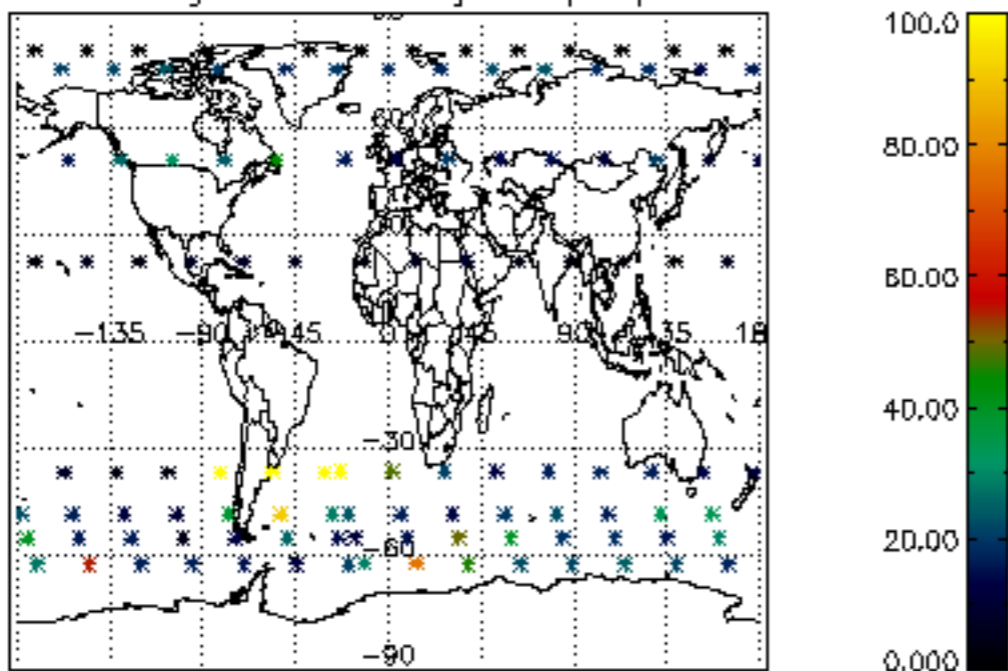
Percentage of flagged data per NO3 profile



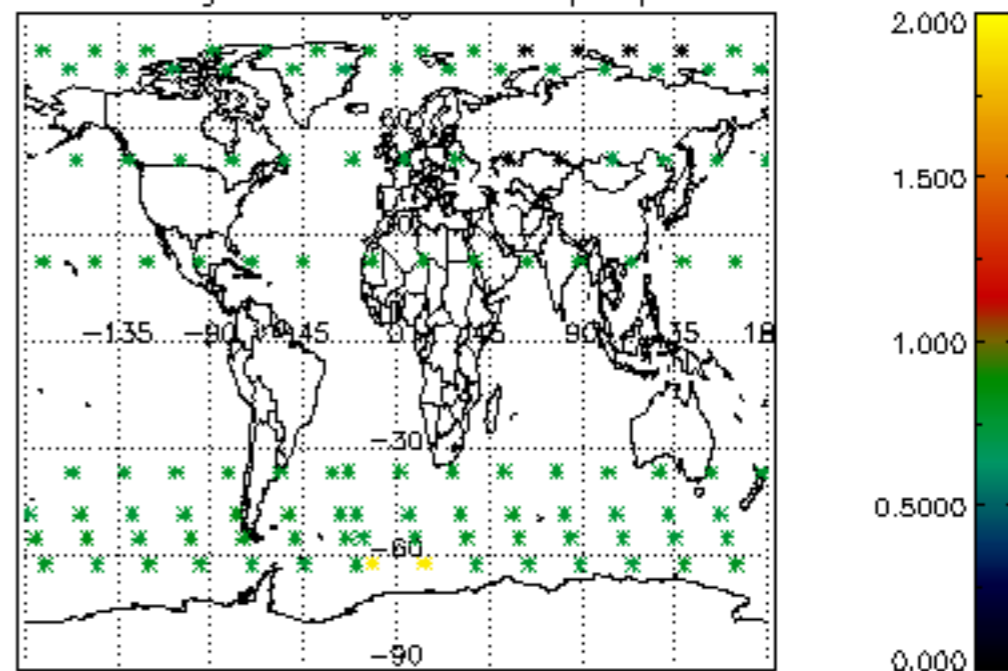




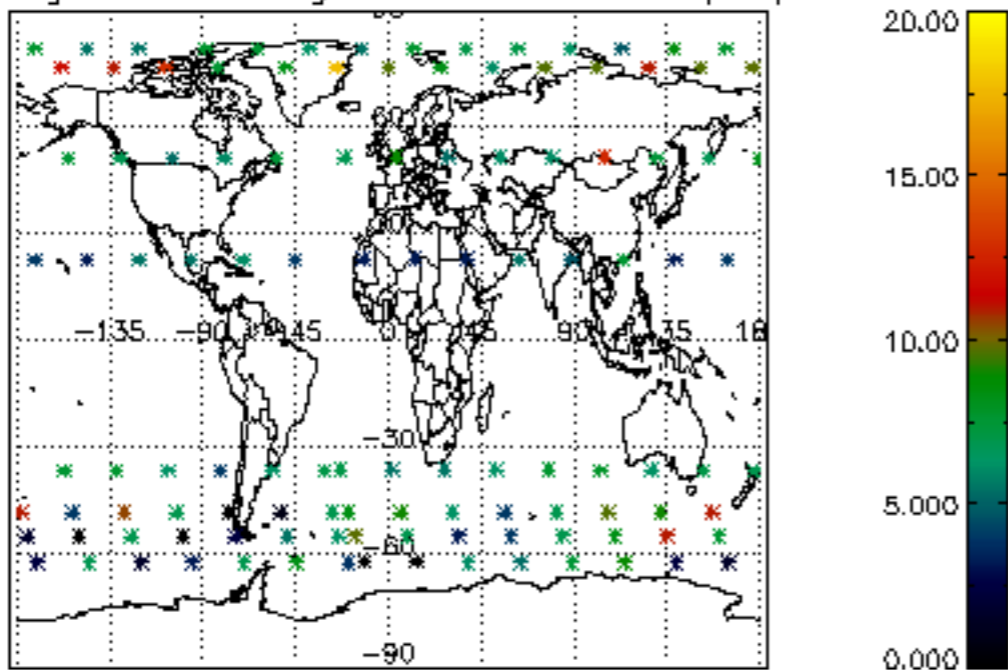
Percentage of cosmic ray hits per profile



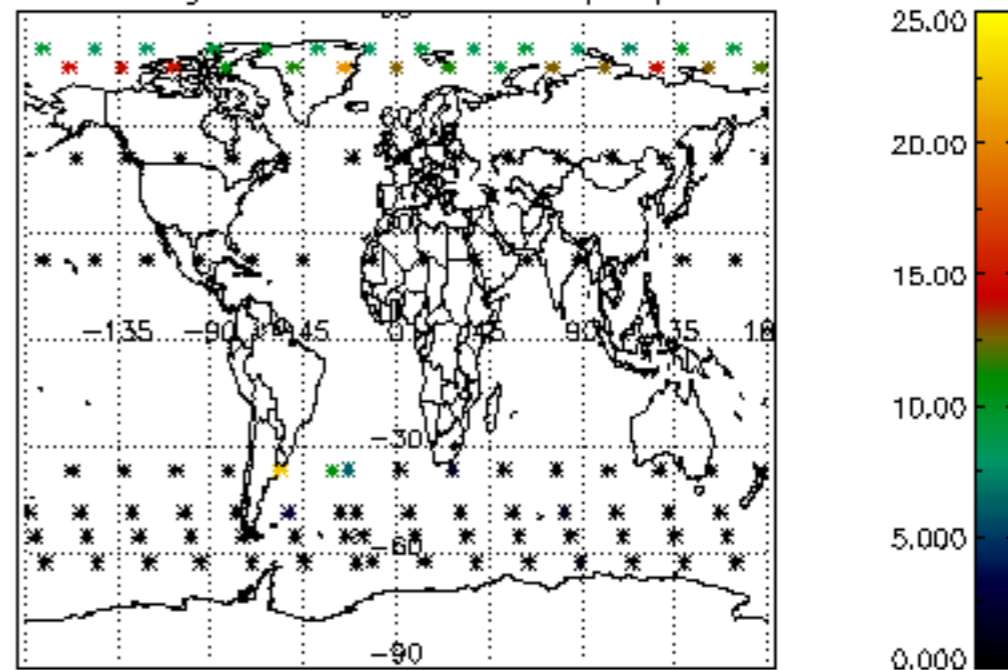
Percentage of datation errors per profile



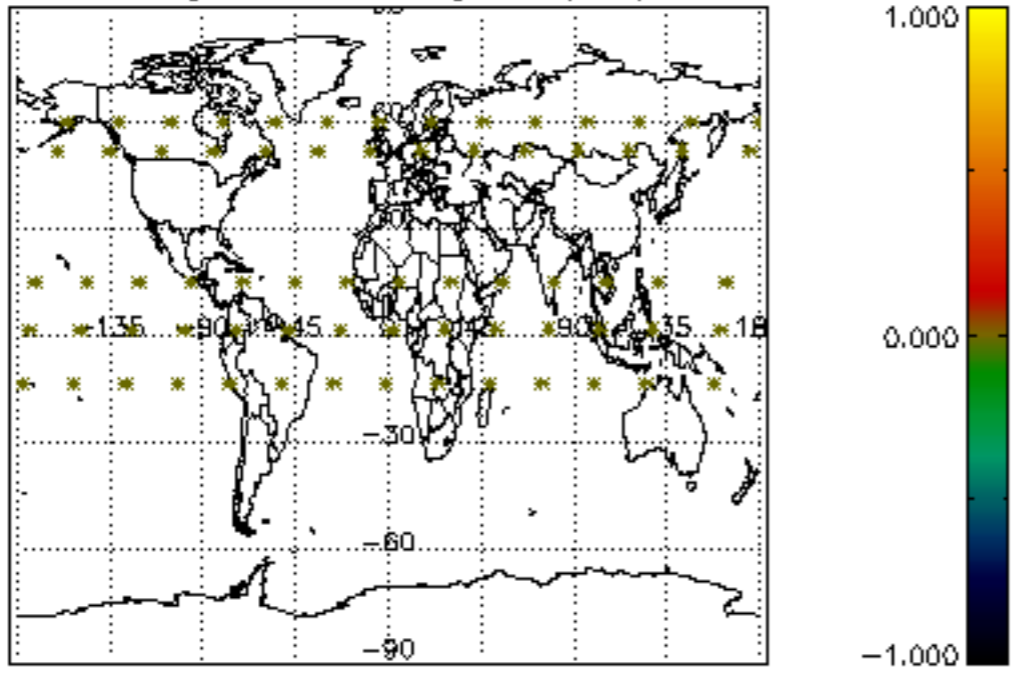
Percentage of star falling outside central band per profile



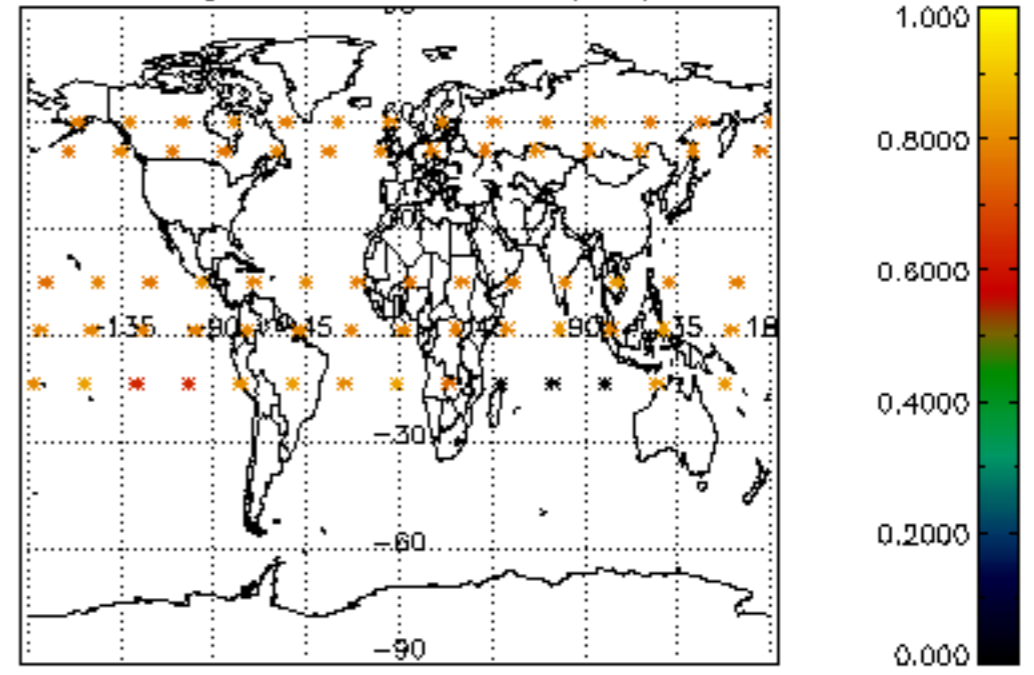
Percentage of saturation errors per profile



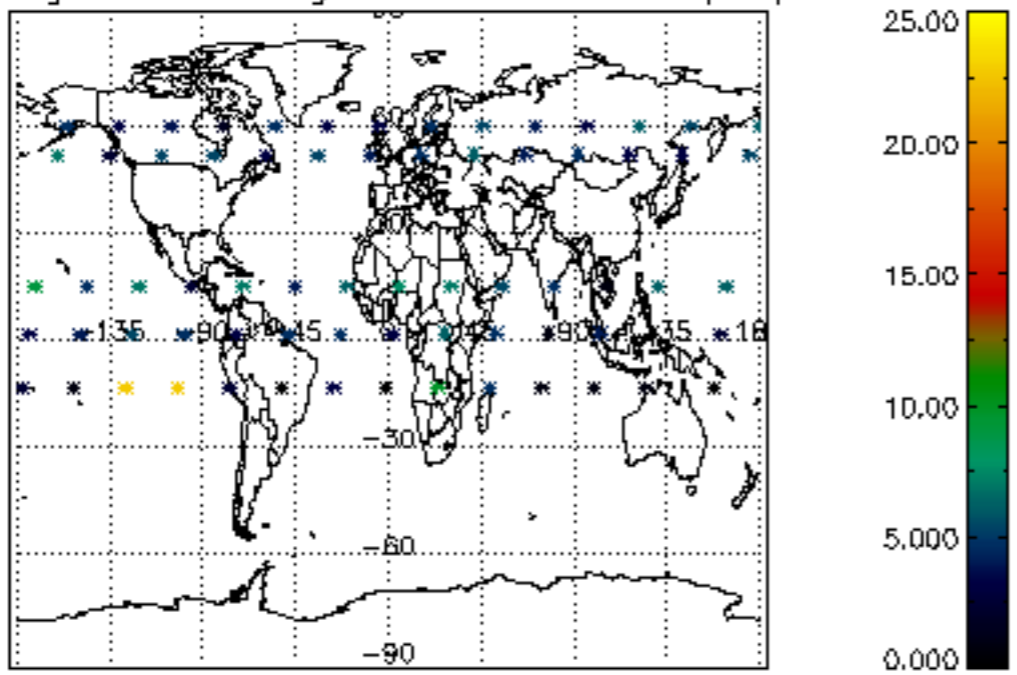
Percentage of cosmic ray hits per profile



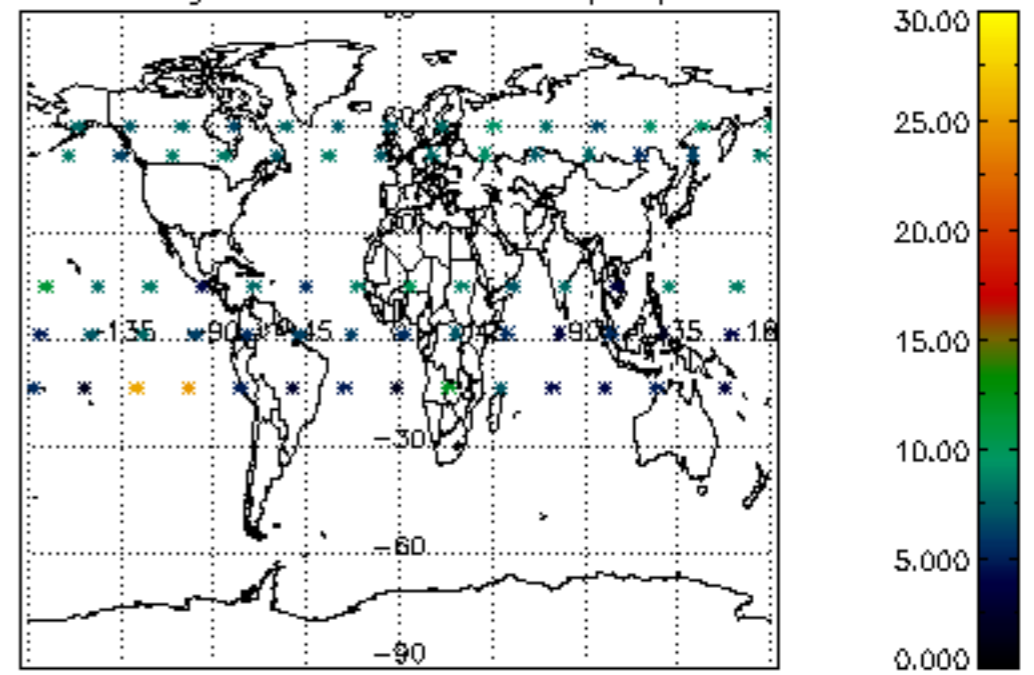
Percentage of datation errors per profile



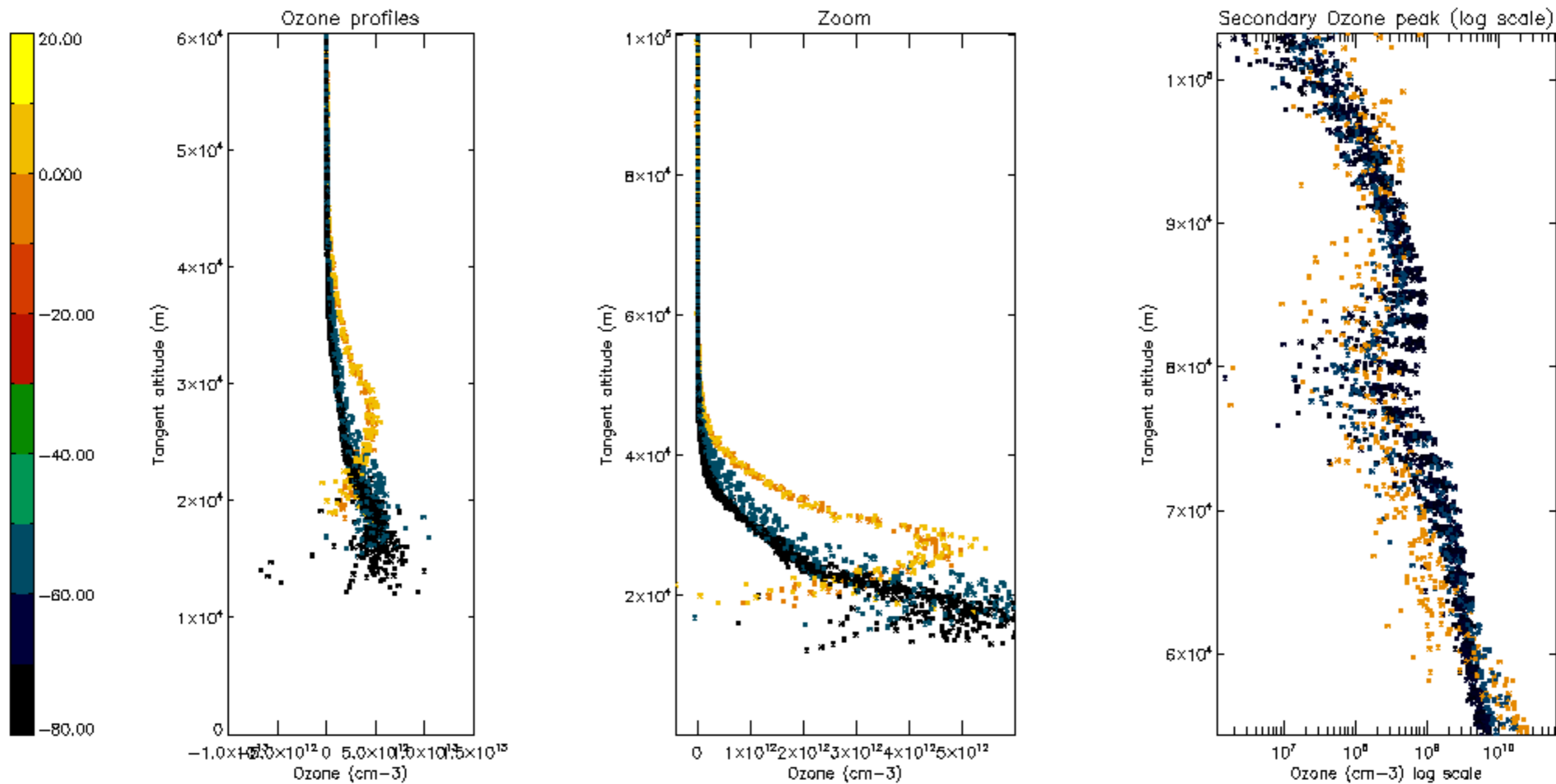
Percentage of star falling outside central band per profile

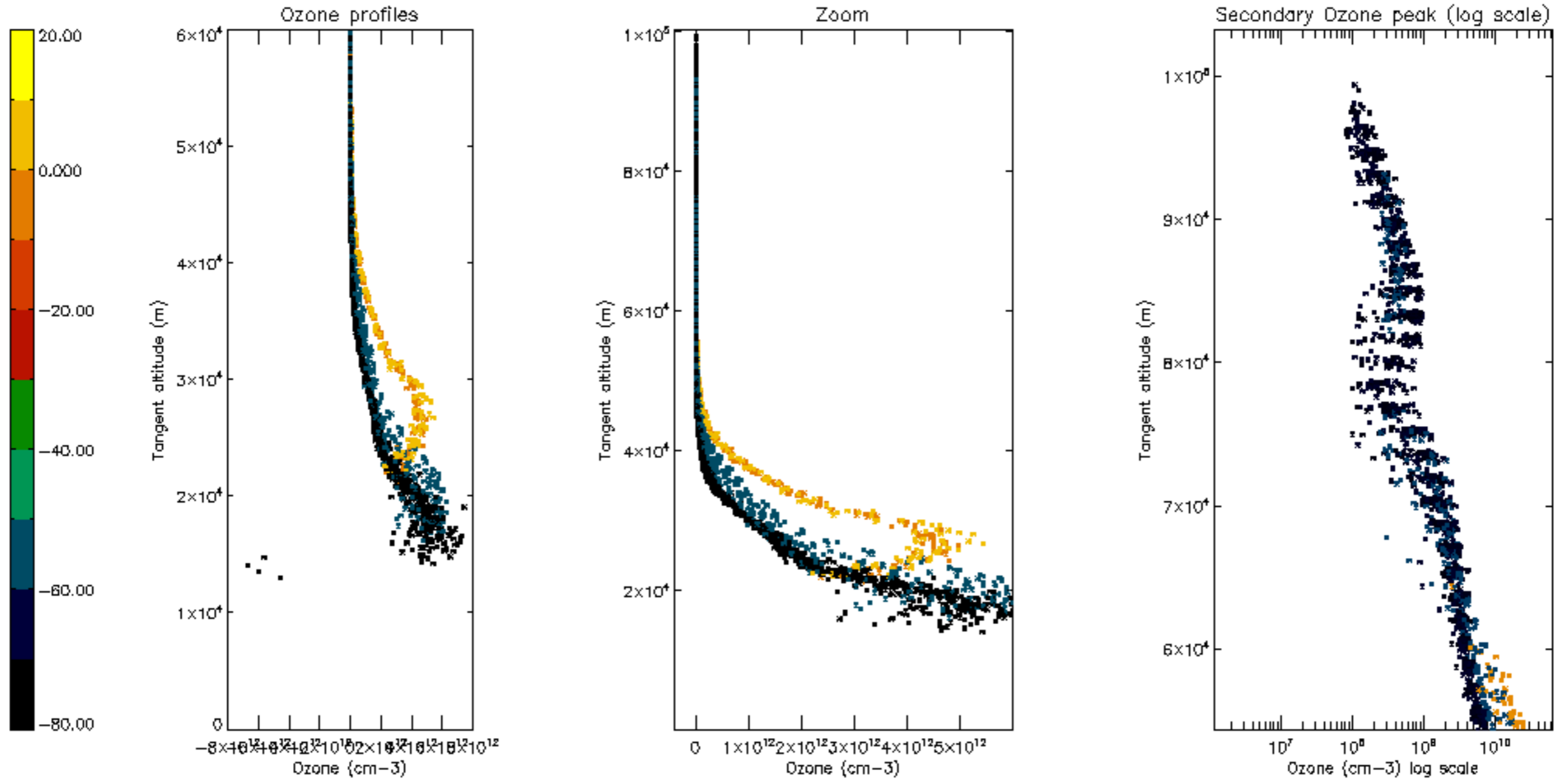


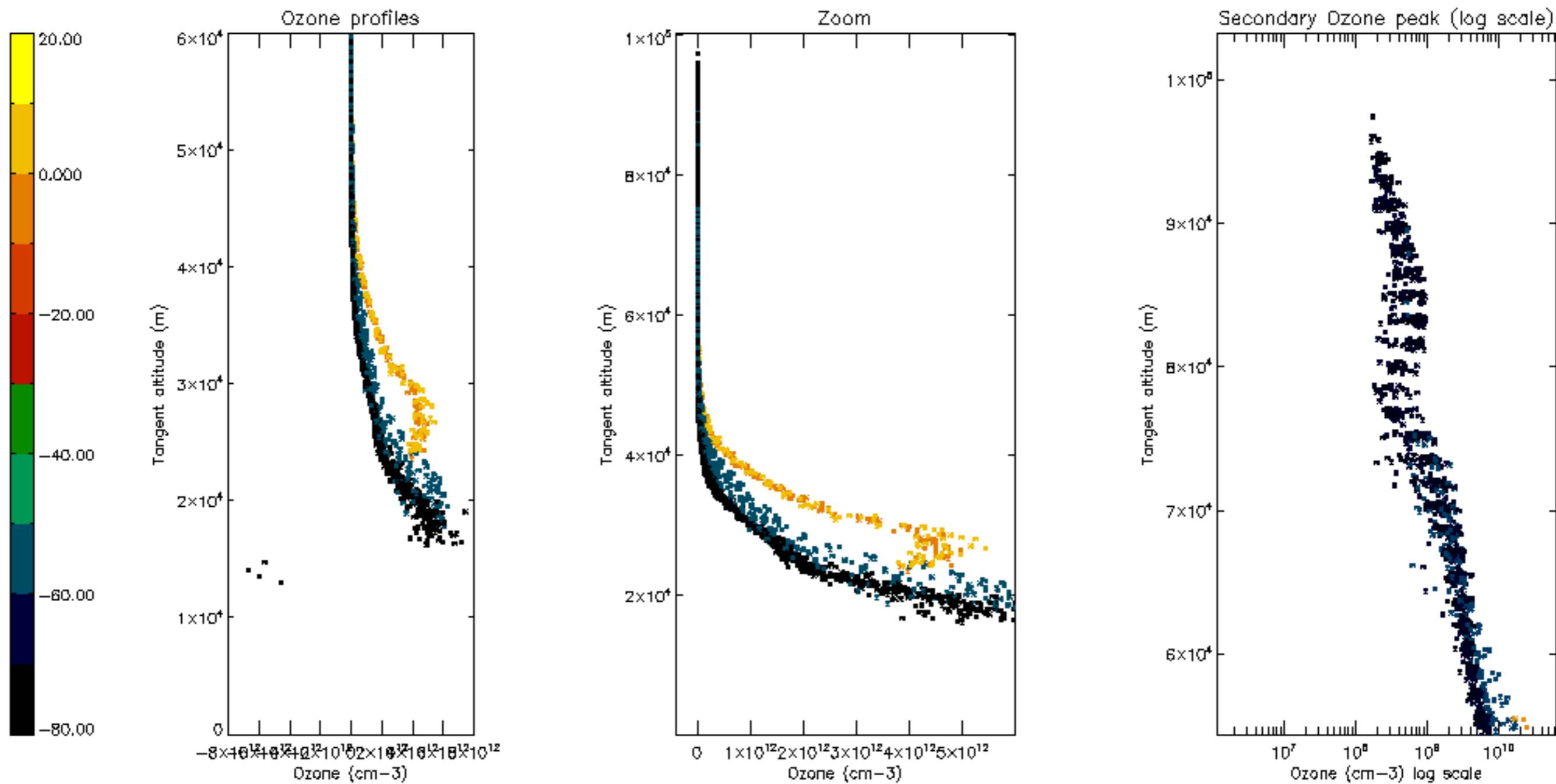
Percentage of saturation errors per profile

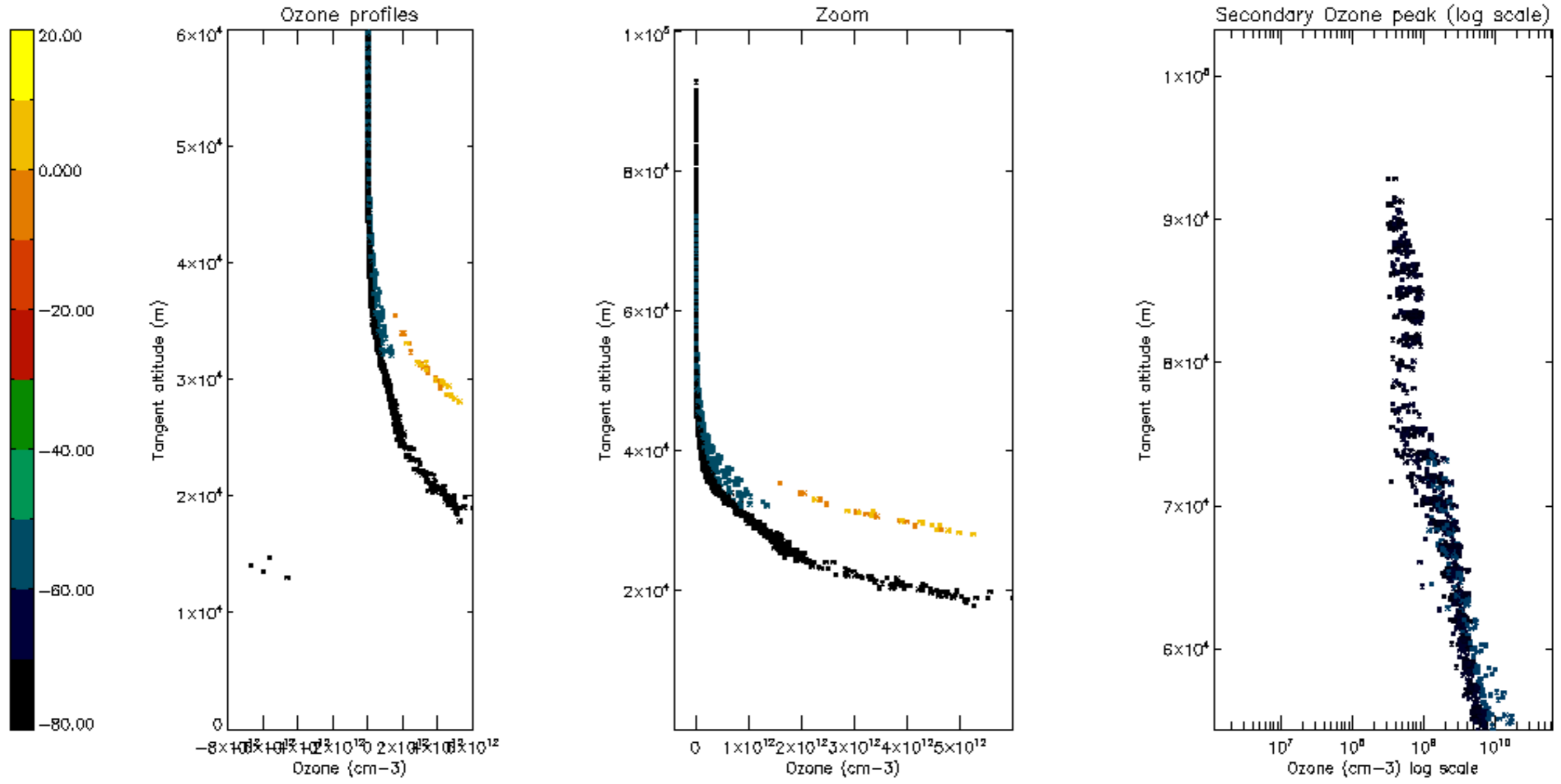


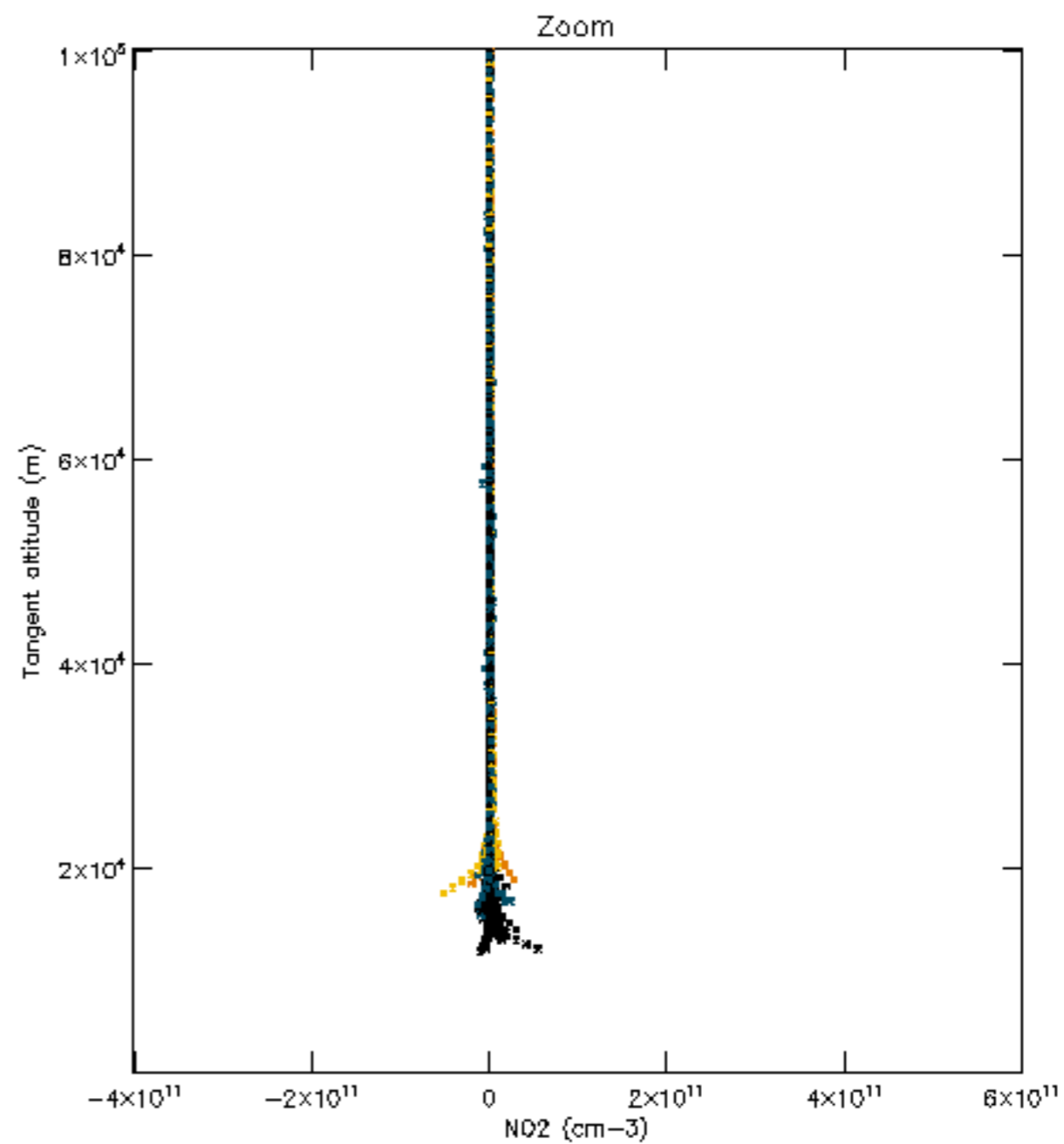
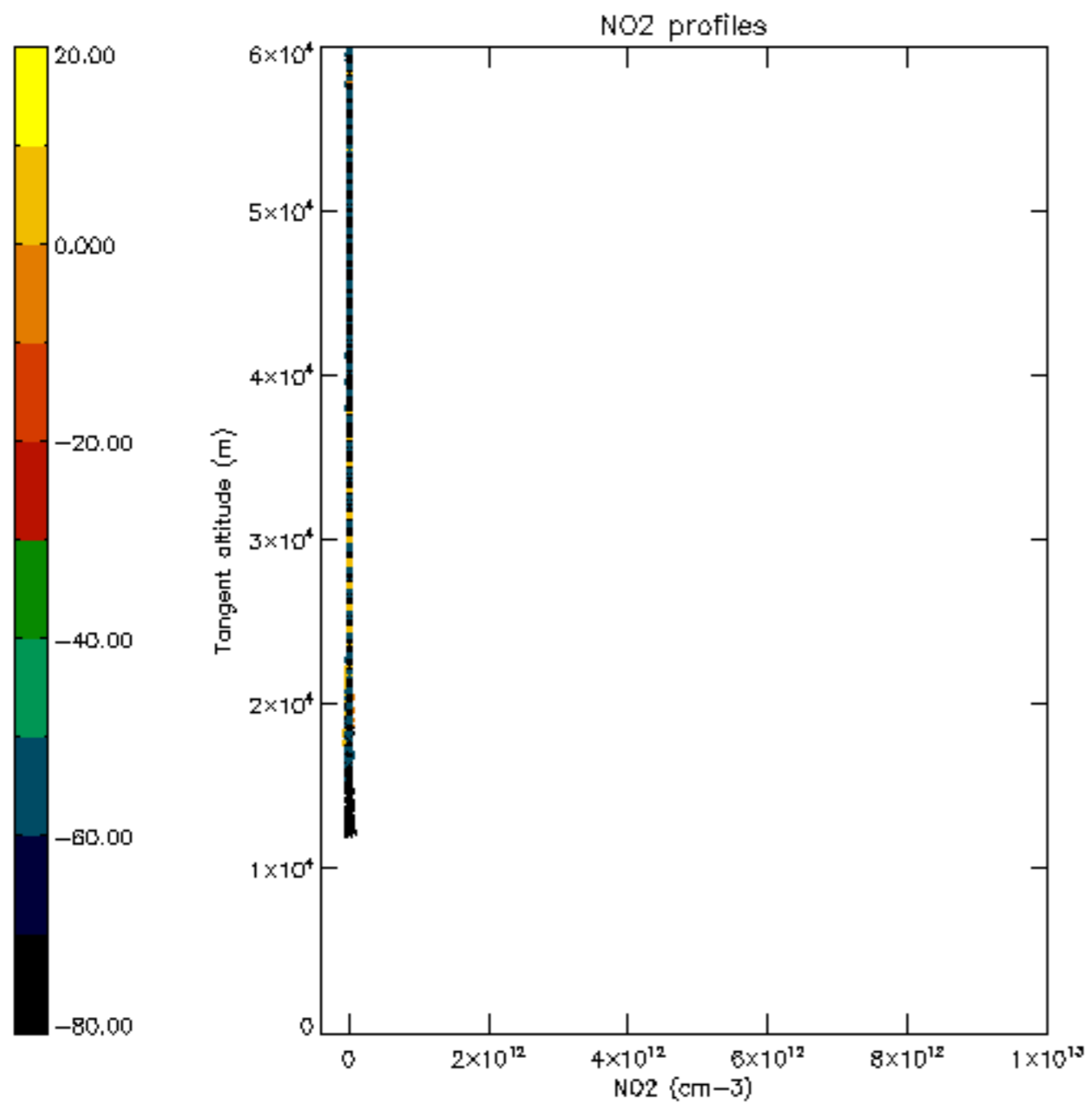


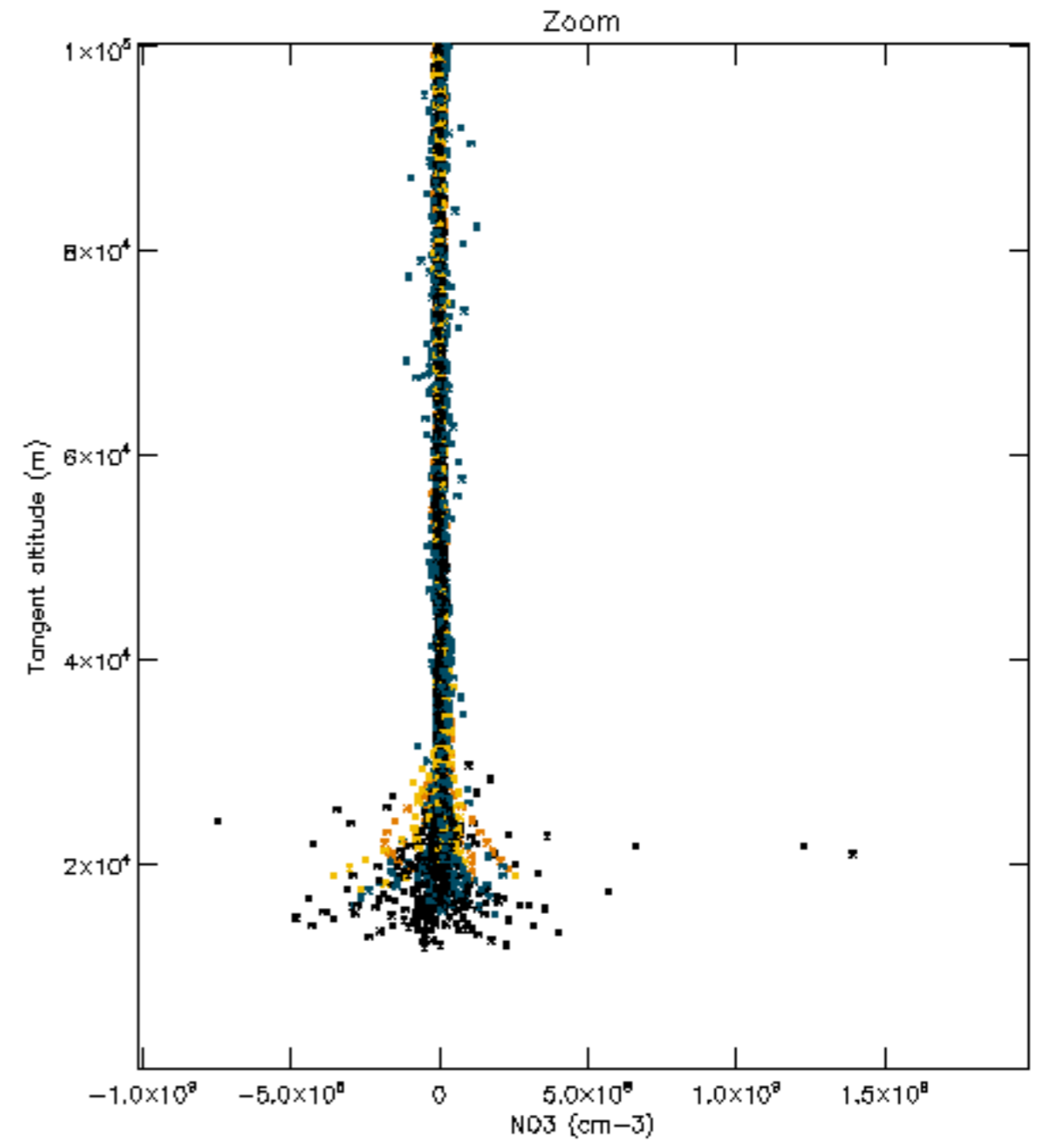
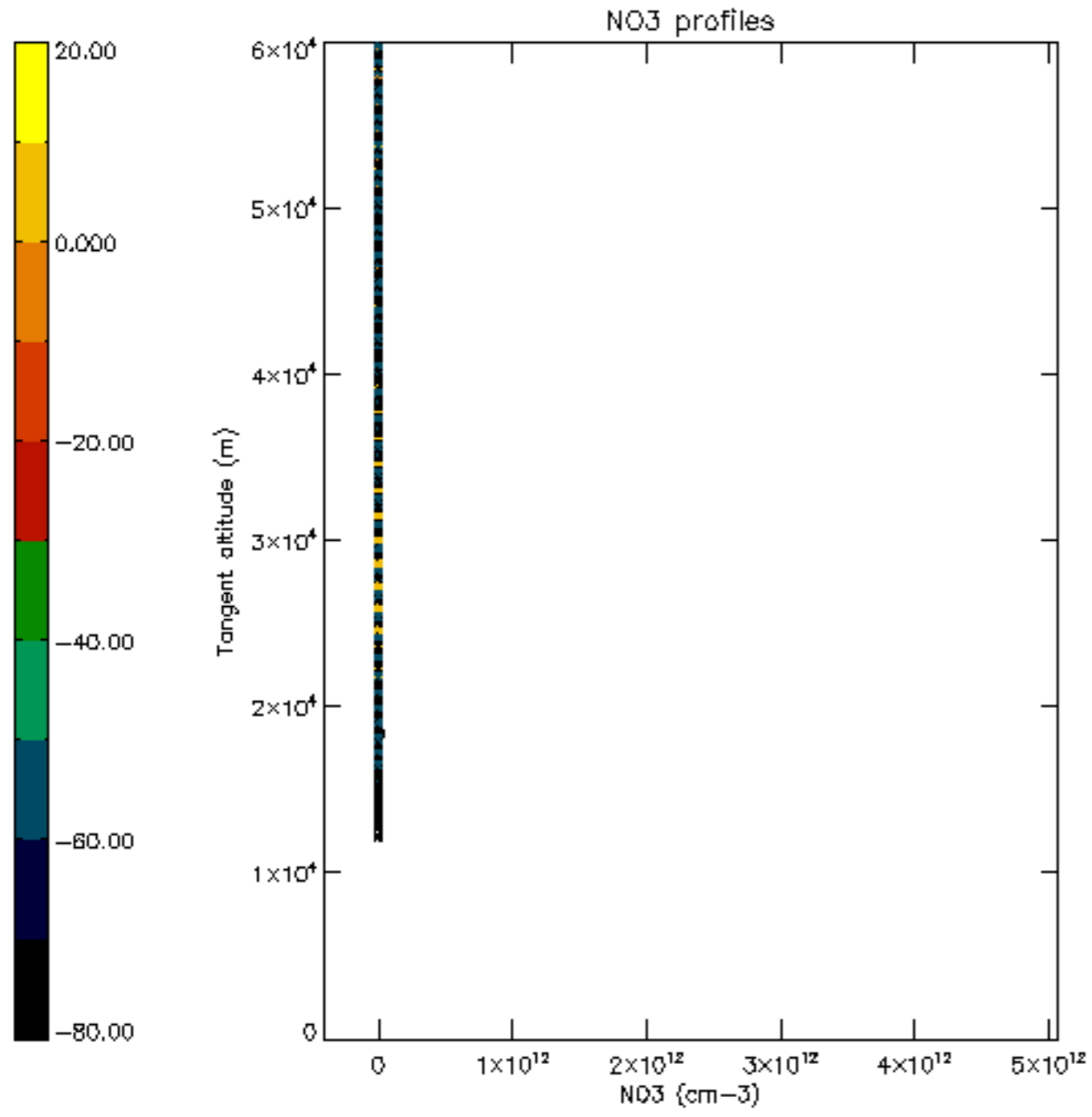


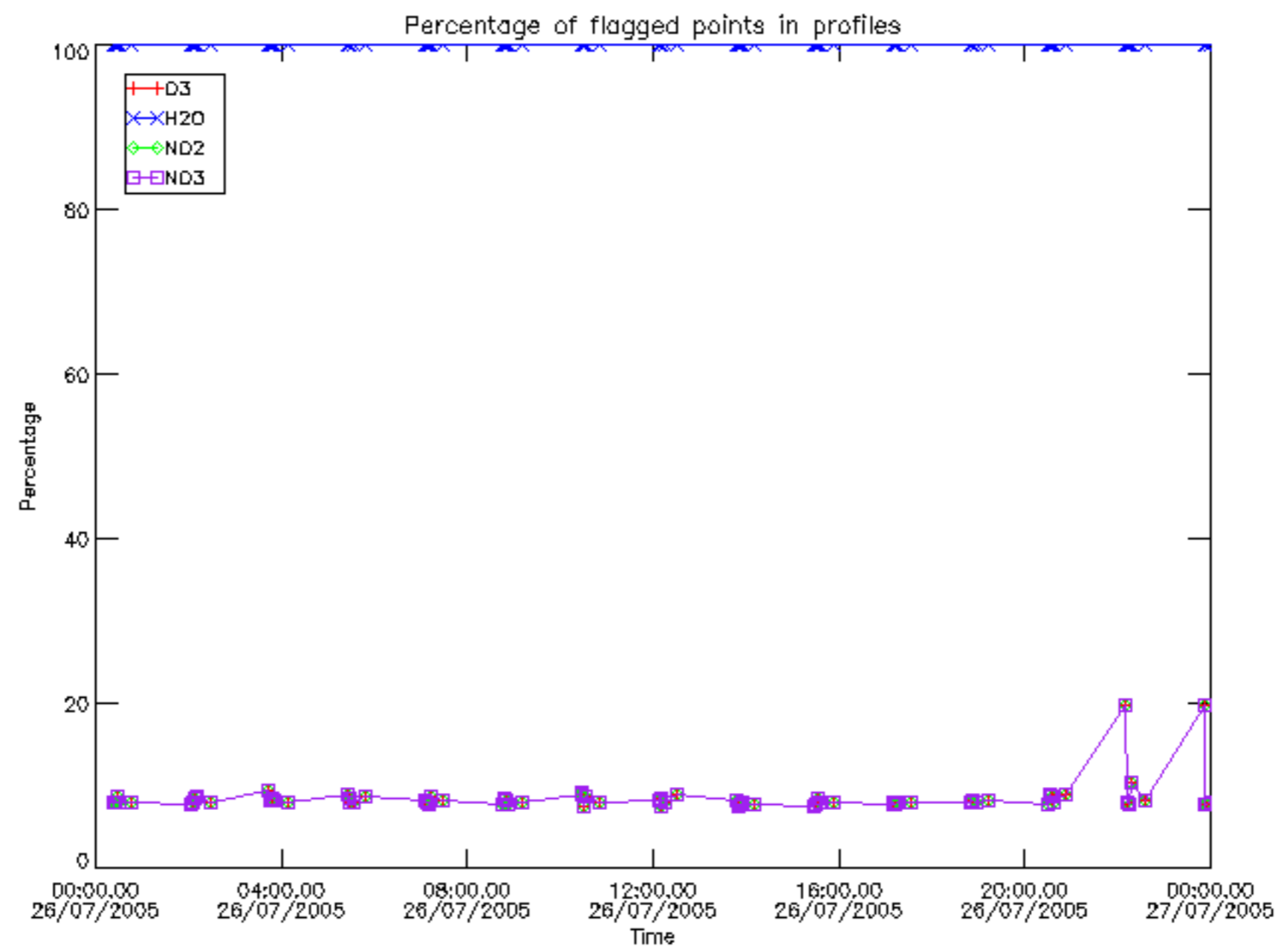




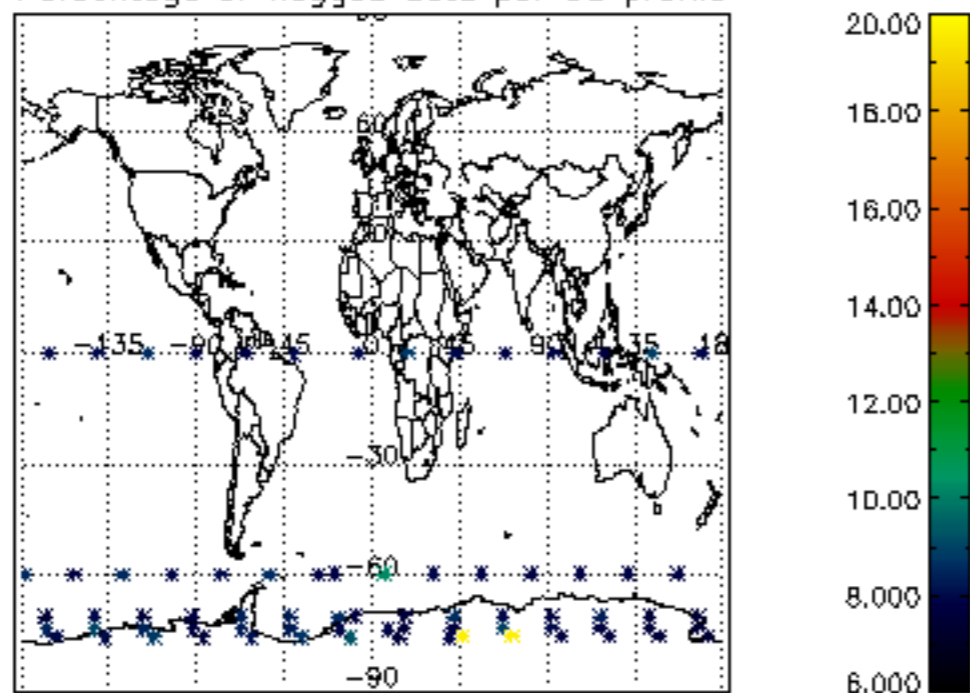




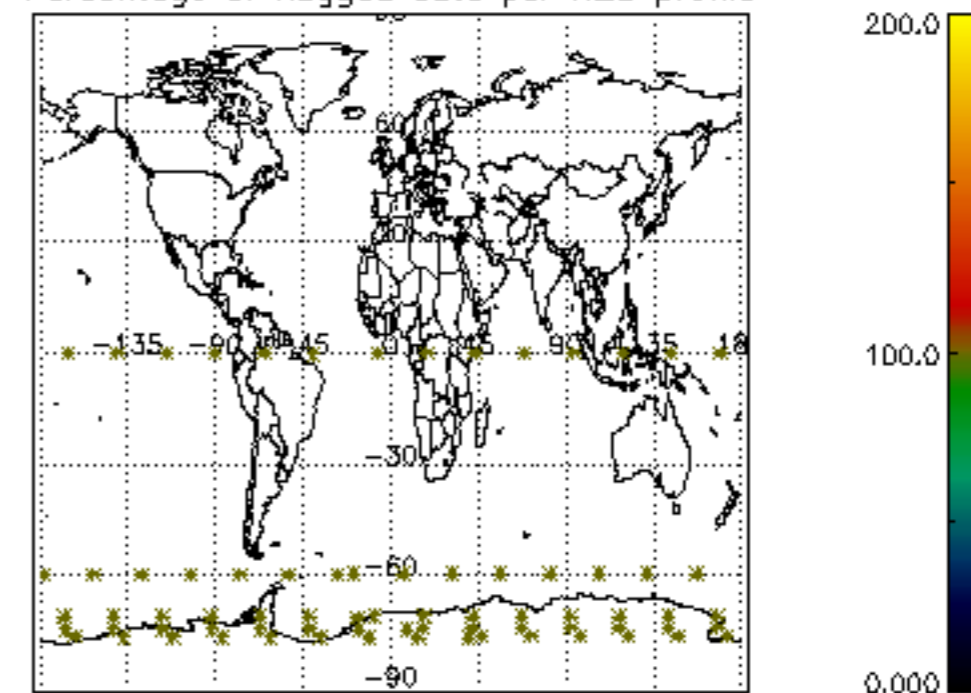




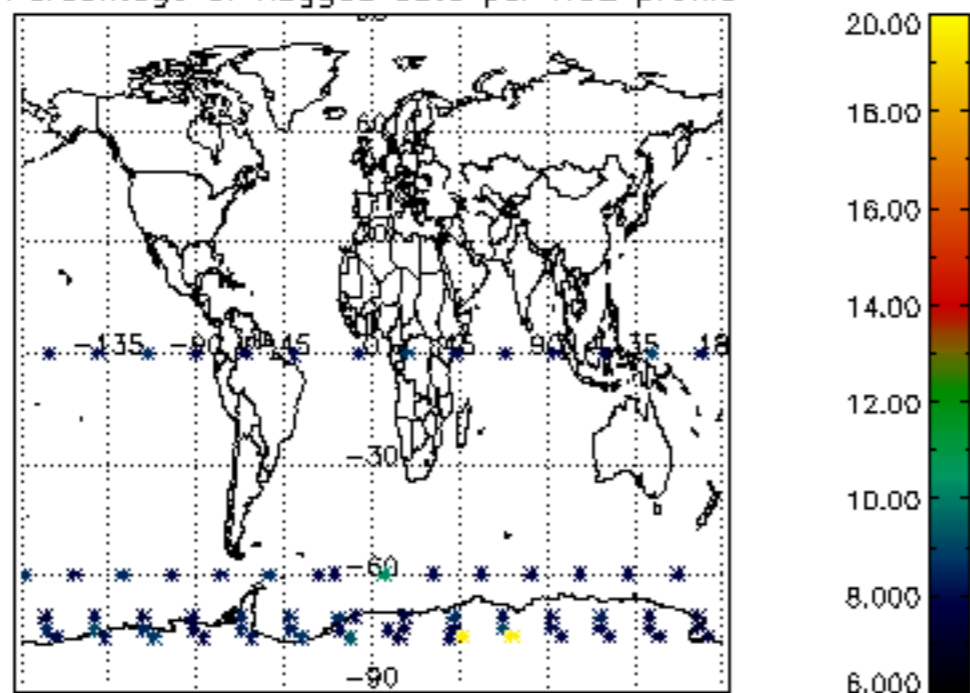
Percentage of flagged data per D3 profile



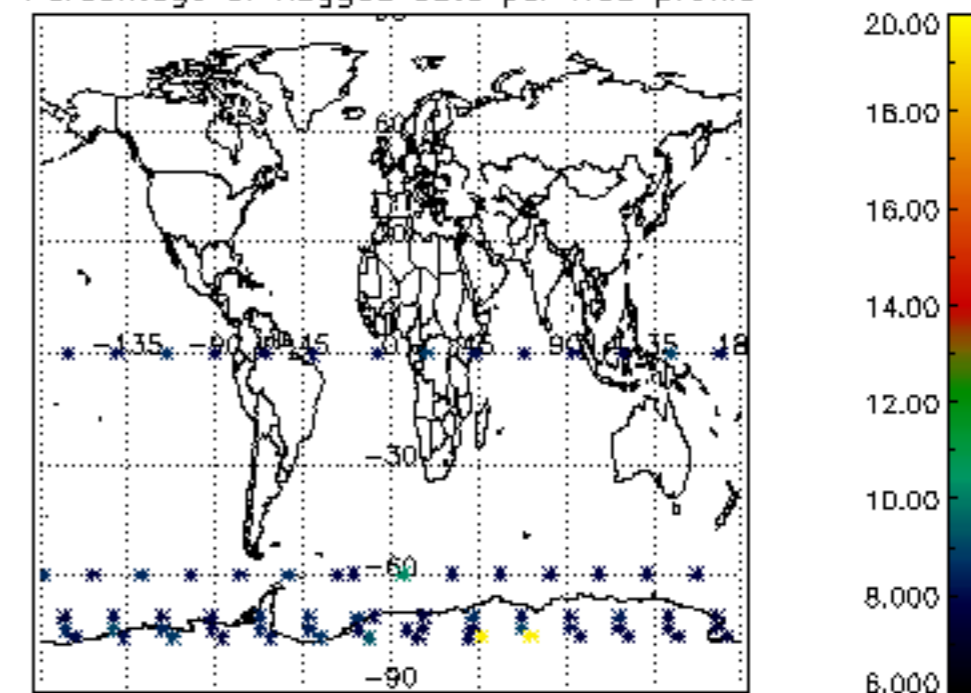
Percentage of flagged data per H2O profile



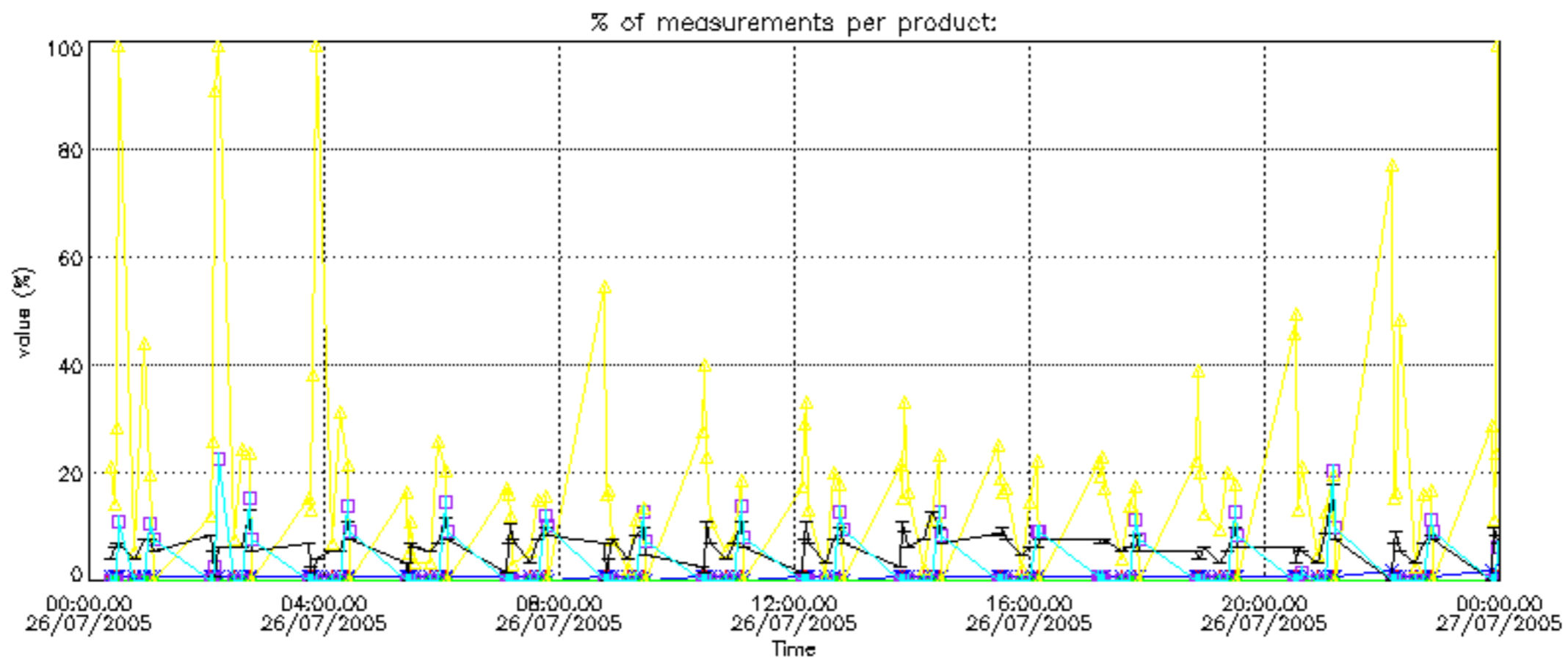
Percentage of flagged data per NO2 profile

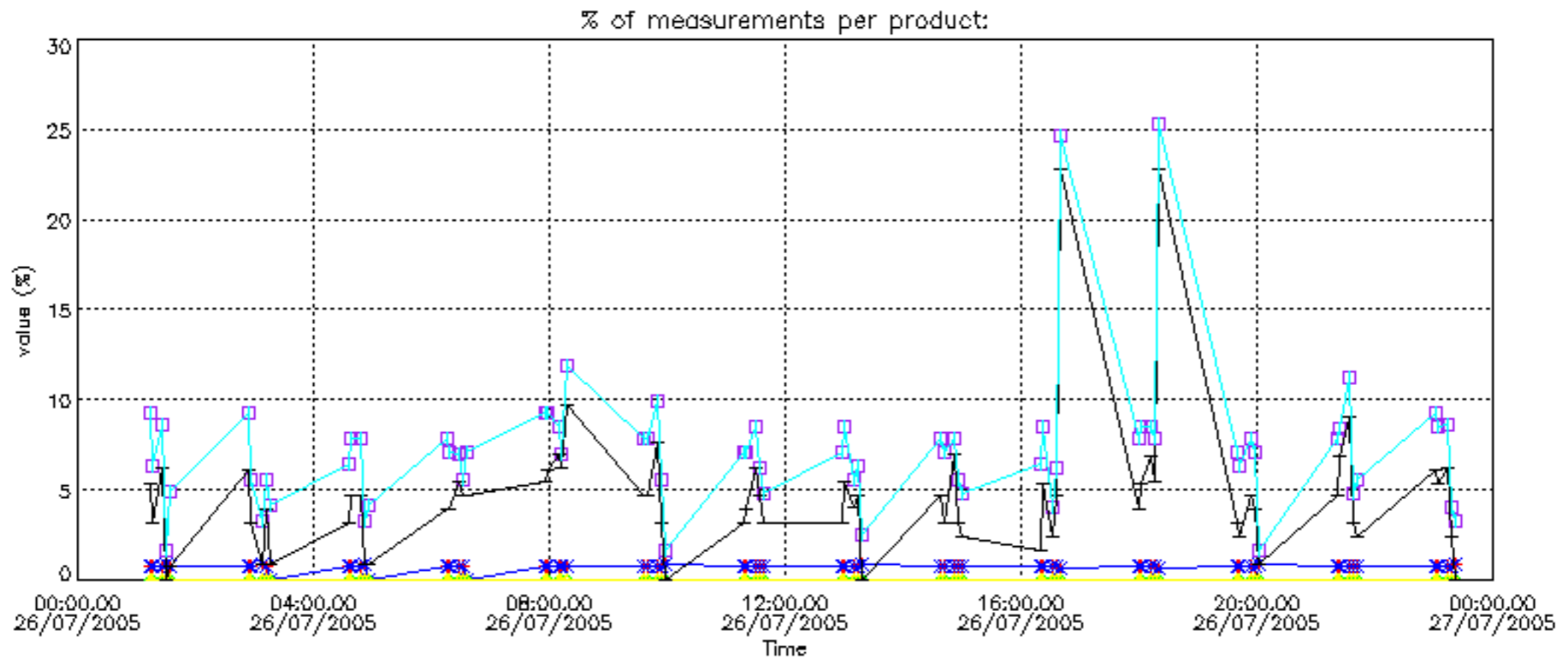


Percentage of flagged data per NO3 profile

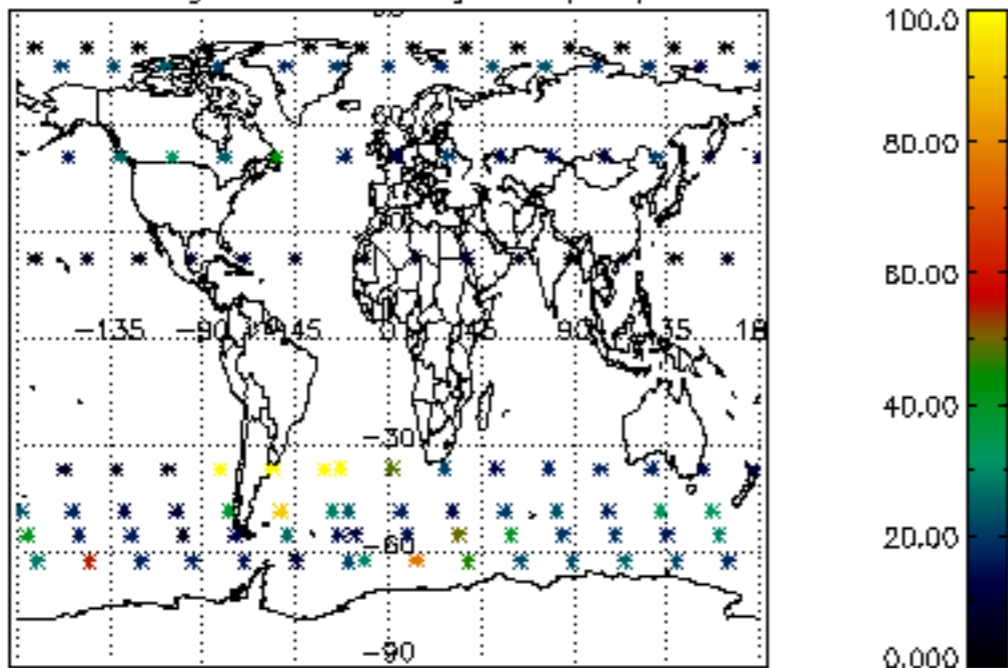




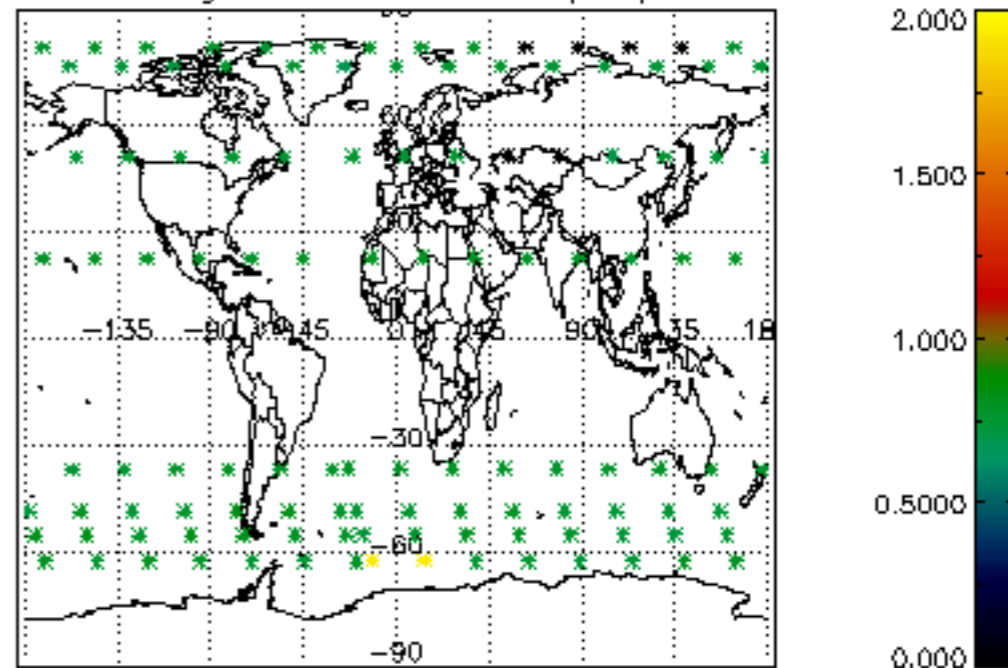




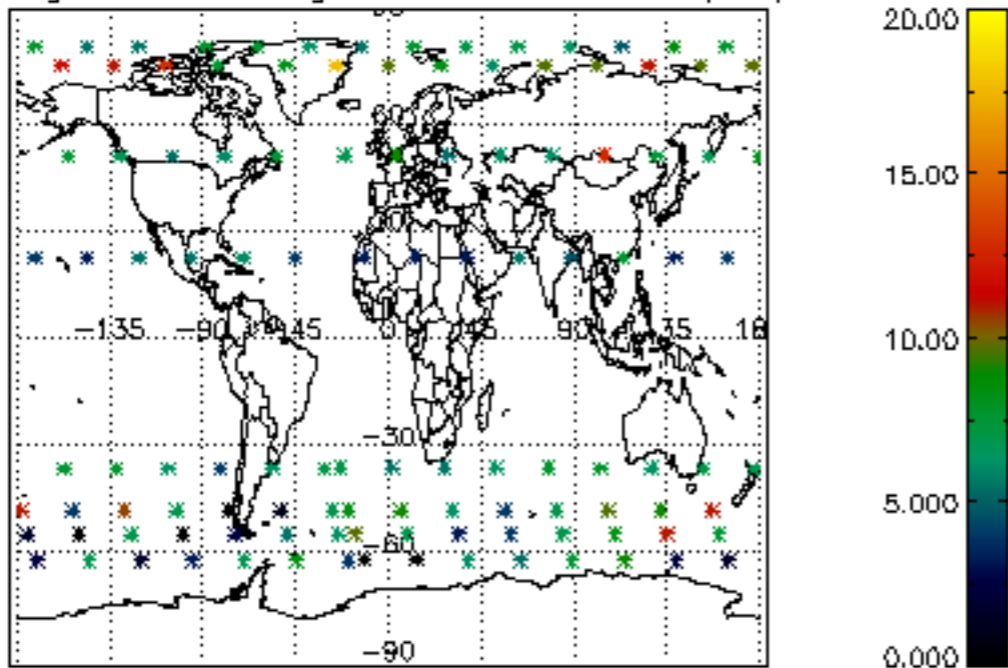
Percentage of cosmic ray hits per profile



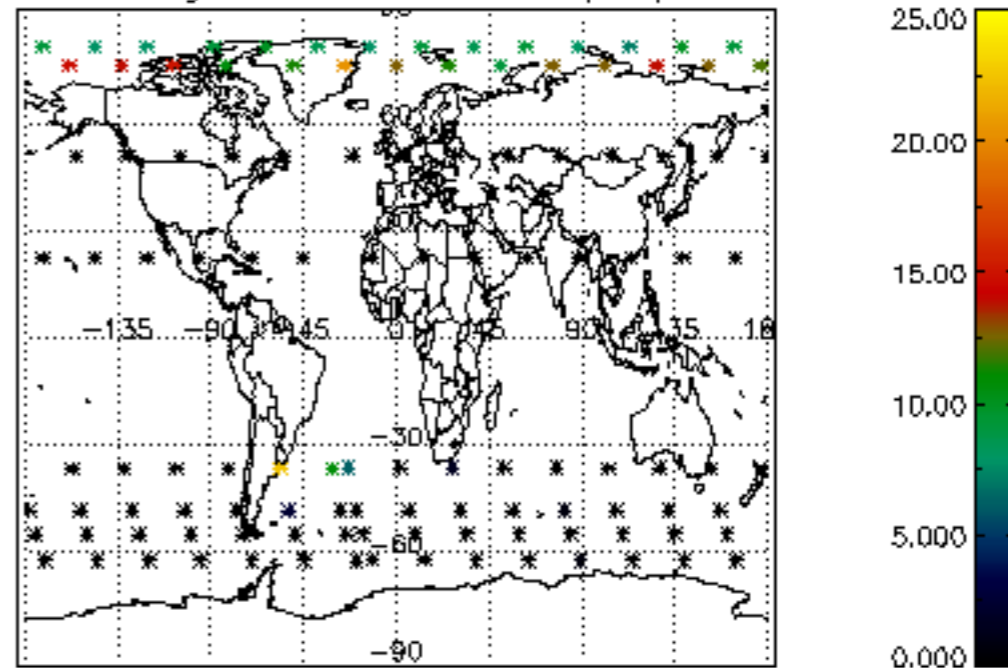
Percentage of datation errors per profile



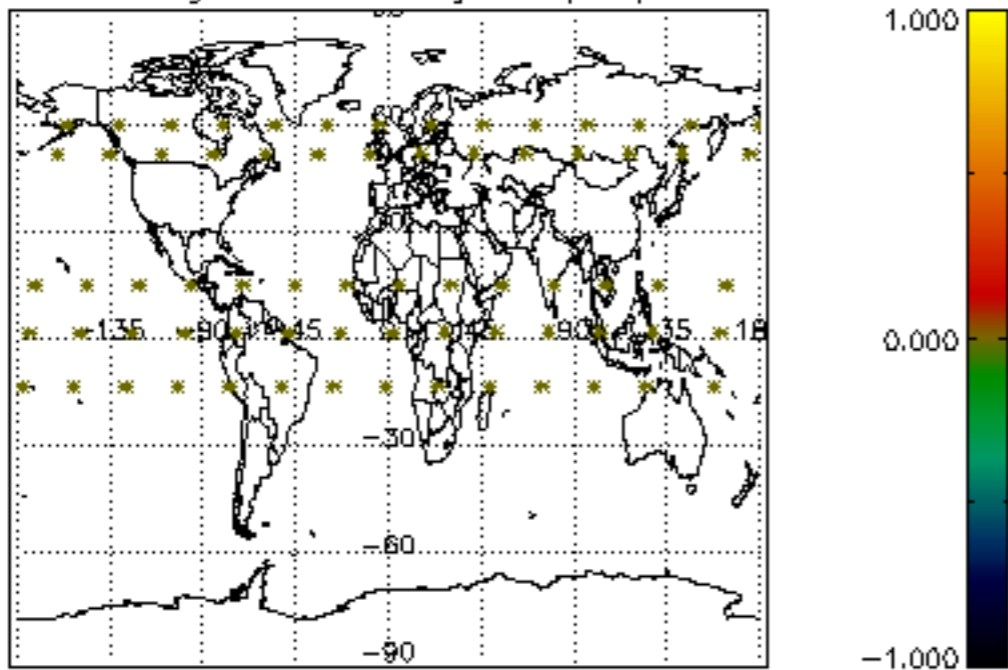
Percentage of star falling outside central band per profile



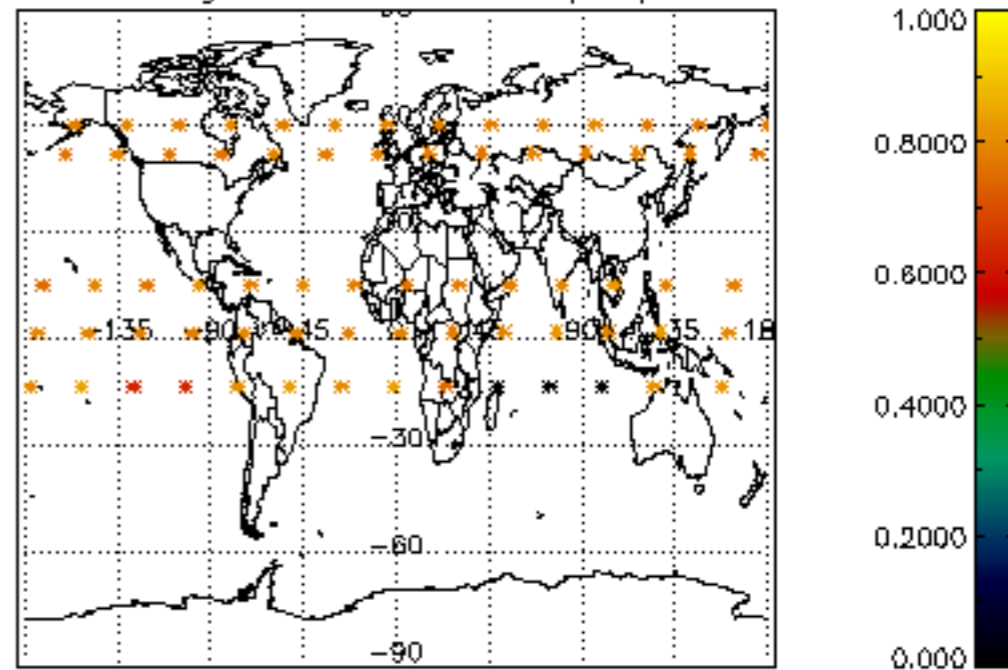
Percentage of saturation errors per profile



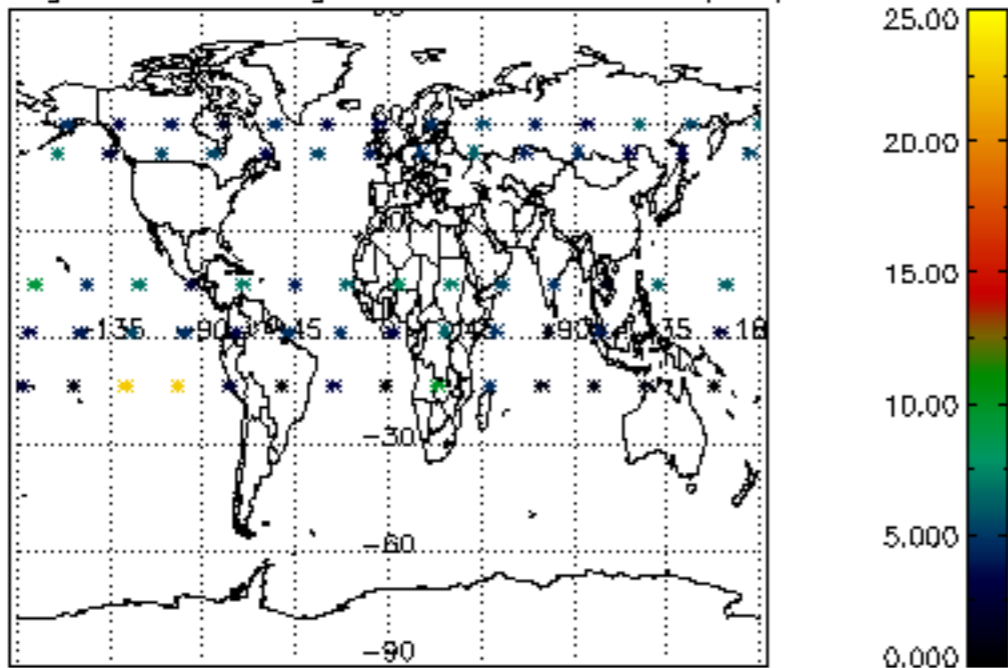
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

