

# GOMOS Level 2 Daily Report

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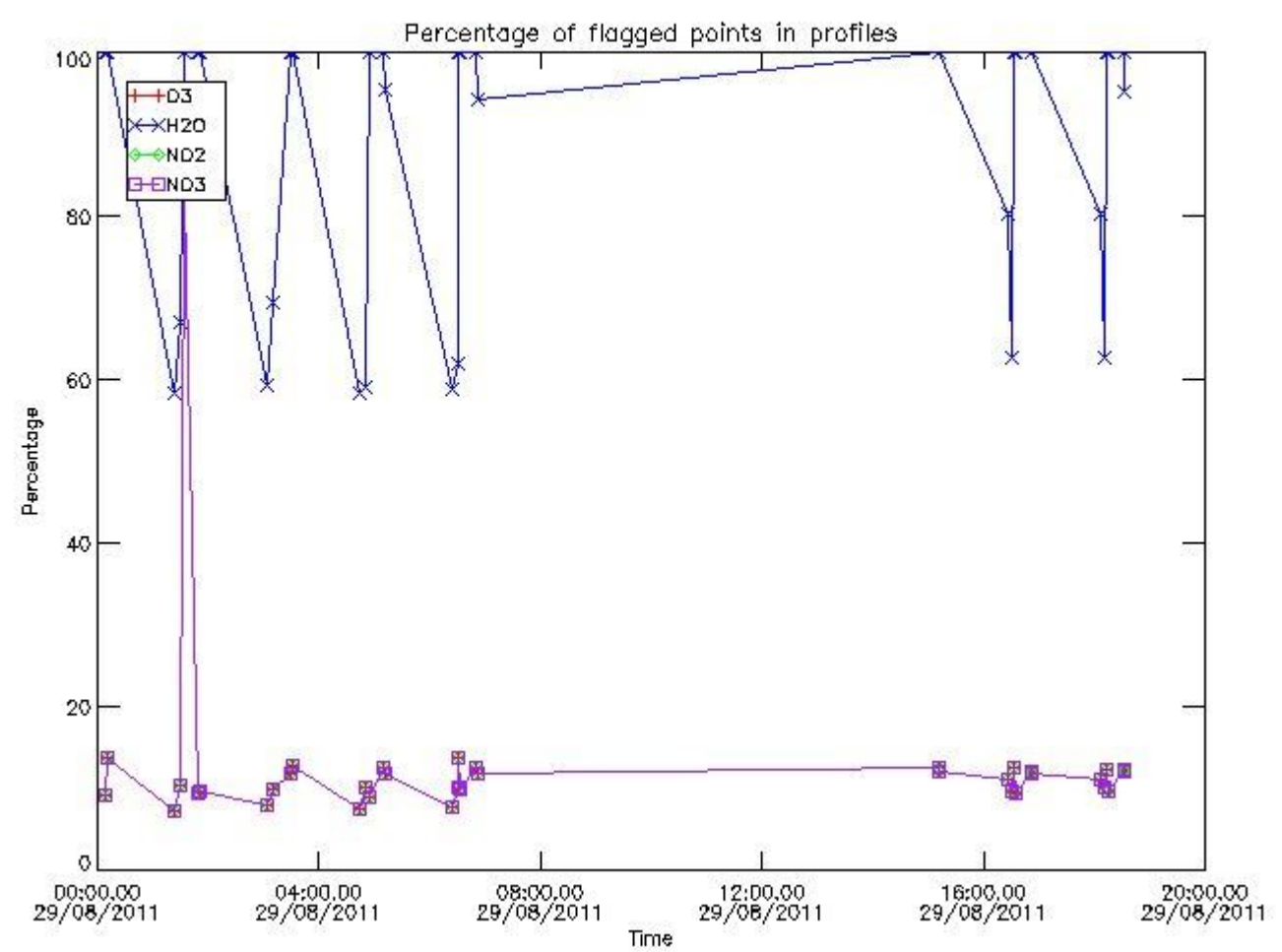


102	GOM_NL__2PRFIN20110829_163128_000000533106_00083_49666_8437.N1	29-AUG-2011 16:31:28	Dark	52.500	1	9Alp CMa	-1.4400	11000.	105	49666	No
103	GOM_NL__2PRFIN20110829_163247_000000413106_00083_49666_8438.N1	29-AUG-2011 16:32:47	Dark	41.000	179	24Omi2CMa	3.0320	24000.	82	49666	No
104	GOM_NL__2PRFIN20110829_163523_000000593106_00083_49666_8439.N1	29-AUG-2011 16:35:23	Dark	59.000	101	11Alp Lep	2.5820	7000.0	118	49666	No
105	GOM_NL__2PRFIN20110829_165115_000000423106_00084_49667_8451.N1	29-AUG-2011 16:51:15	Dark	42.000	143	Alp Hyi	2.8570	7200.0	84	49667	No
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107	GOM_NL__2PRFIN20110829_165826_000000533106_00084_49667_8453.N1	29-AUG-2011 16:58:26	Straylight	52.500	84	Alp Phe	2.3970	4500.0	105	49667	No
108	GOM_NL__2PRFIN20110829_170439_000000503106_00084_49667_8454.N1	29-AUG-2011 17:04:39	Straylight	50.000	18	24Alp PsA	1.1660	9700.0	100	49667	No
109	GOM_NL__2PRFIN20110829_170931_000000433106_00084_49667_8455.N1	29-AUG-2011 17:09:31	Bright	42.500	142	49Del Cap	2.8500	8900.0	85	49667	No
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113	GOM_NL__2PRFIN20110829_173206_000000373106_00084_49667_8459.N1	29-AUG-2011 17:32:06	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	49667	No
114	GOM_NL__2PRFIN20110829_173503_000000463106_00084_49667_8460.N1	29-AUG-2011 17:35:03	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	49667	No
115	GOM_NL__2PRFIN20110829_173711_000000453106_00084_49667_8461.N1	29-AUG-2011 17:37:11	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	49667	No
116	GOM_NL__2PRFIN20110829_175233_000000463106_00084_49667_8462.N1	29-AUG-2011 17:52:33	Bright	45.500	42	34Bet Aur	1.9000	10200.	91	49667	No
117	GOM_NL__2PRFIN20110829_175520_000000443106_00084_49667_8463.N1	29-AUG-2011 17:55:20	Bright	43.500	107	37The Aur	2.6490	11000.	87	49667	No
118	GOM_NL__2PRFIN20110829_175735_000000353106_00084_49667_8464.N1	29-AUG-2011 17:57:35	Bright	35.000	17	78Bet Gem	1.1610	4500.0	70	49667	No
119	GOM_NL__2PRFIN20110829_180022_000000573106_00084_49667_8465.N1	29-AUG-2011 18:00:22	Tw_i_and_stray	57.000	151	13Mu Gem	2.8900	3000.0	114	49667	No
120	GOM_NL__2PRFIN20110829_180206_000000543106_00084_49667_8466.N1	29-AUG-2011 18:02:06	Tw_i_and_stray	53.500	44	24Gam Gem	1.9280	11000.	107	49667	No
121	GOM_NL__2PRFIN20110829_180632_000000463106_00084_49667_8467.N1	29-AUG-2011 18:06:32	Dark	46.000	14	58Alp Ori	0.87000	3000.0	92	49667	No
122	GOM_NL__2PRFIN20110829_181143_000000503106_00084_49667_8468.N1	29-AUG-2011 18:11:43	Dark	50.000	1	9Alp CMa	-1.4400	11000.	100	49667	No
123	GOM_NL__2PRFIN20110829_181302_000000423106_00084_49667_8469.N1	29-AUG-2011 18:13:02	Dark	41.500	179	24Omi2CMa	3.0320	24000.	83	49667	No
124	GOM_NL__2PRFIN20110829_181538_000000543106_00084_49667_8470.N1	29-AUG-2011 18:15:38	Dark	53.500	101	11Alp Lep	2.5820	7000.0	107	49667	No
125	GOM_NL__2PRFIN20110829_183129_000000423106_00085_49668_8491.N1	29-AUG-2011 18:31:29	Dark	41.500	143	Alp Hyi	2.8570	7200.0	83	49668	No
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### 3. Quality information per product

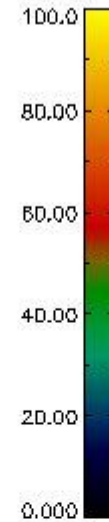
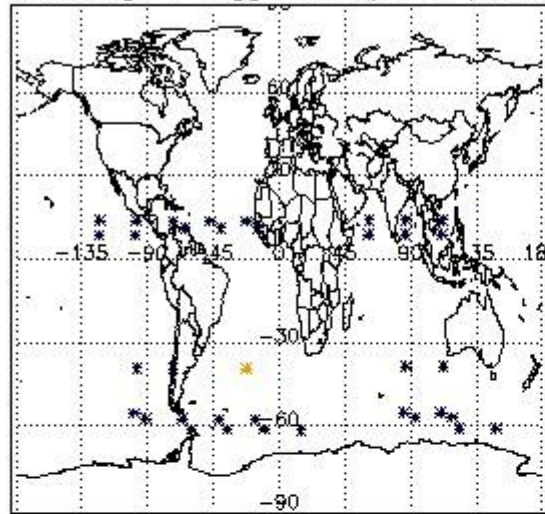
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

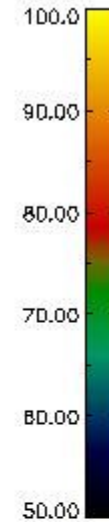
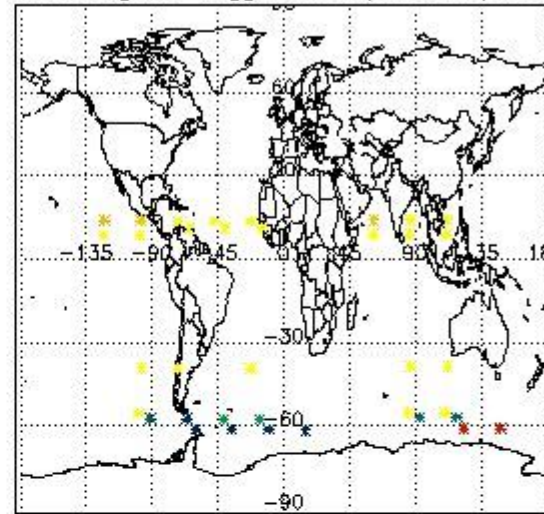


3.2 Plot quality information per product (world map)

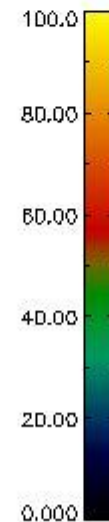
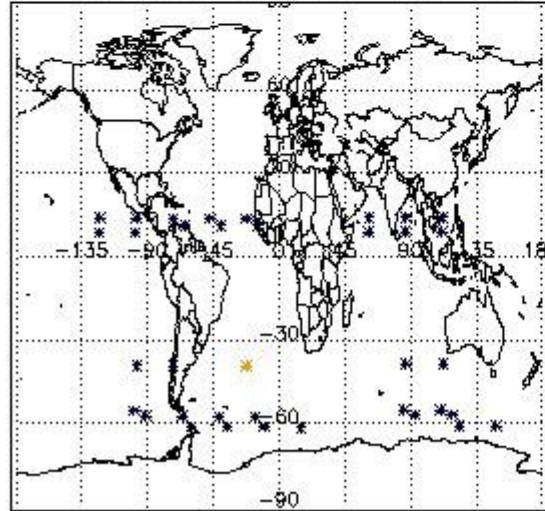
Percentage of flagged data per O3 profile



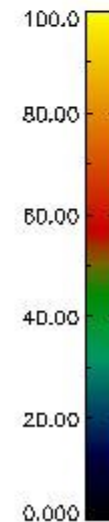
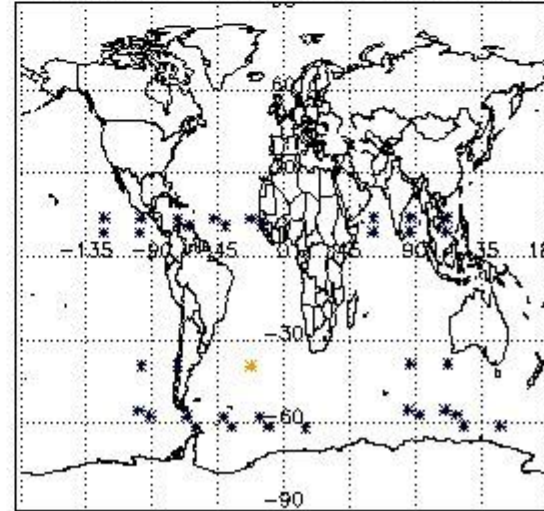
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

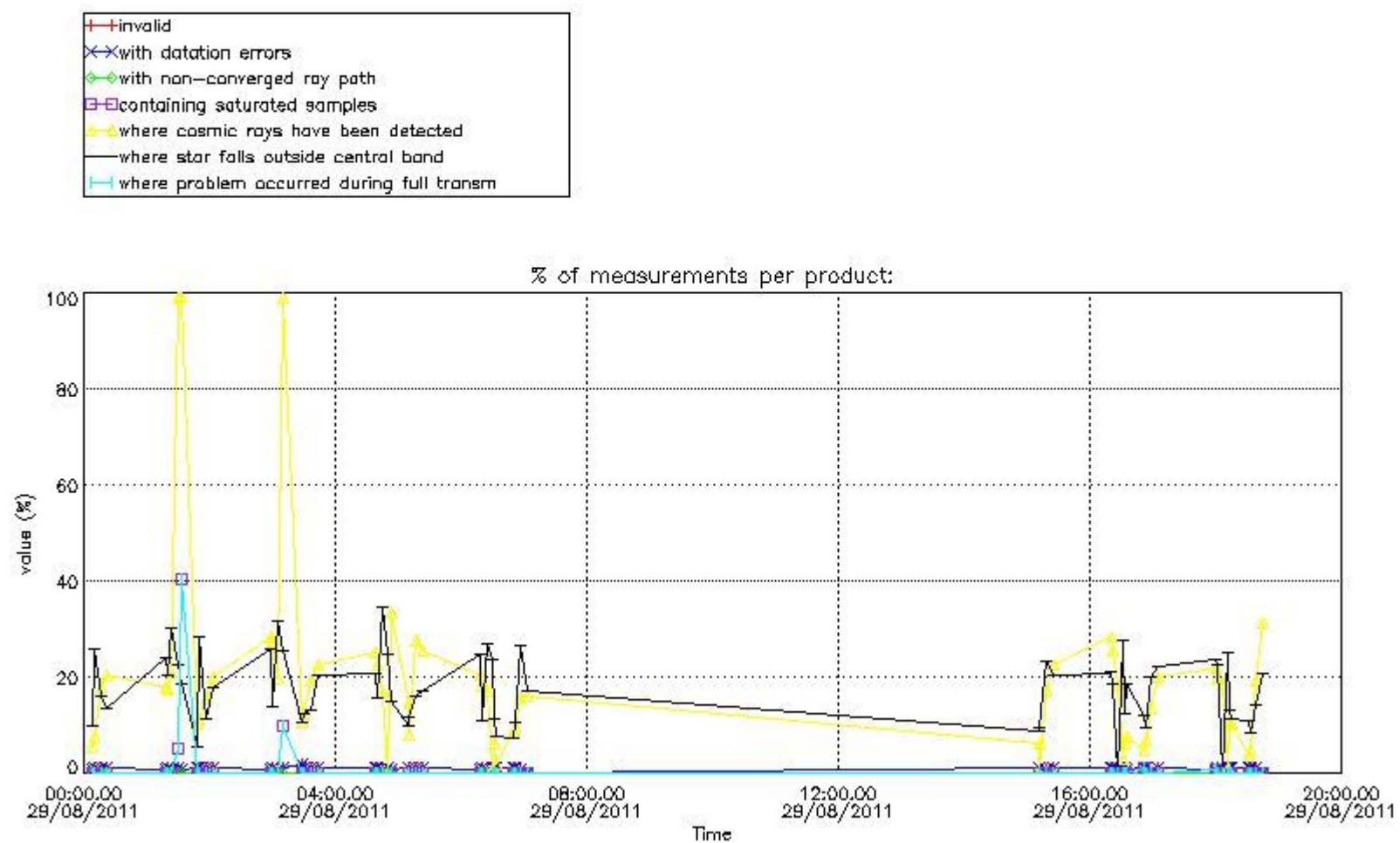


#### 4. Level 1 quality information per product

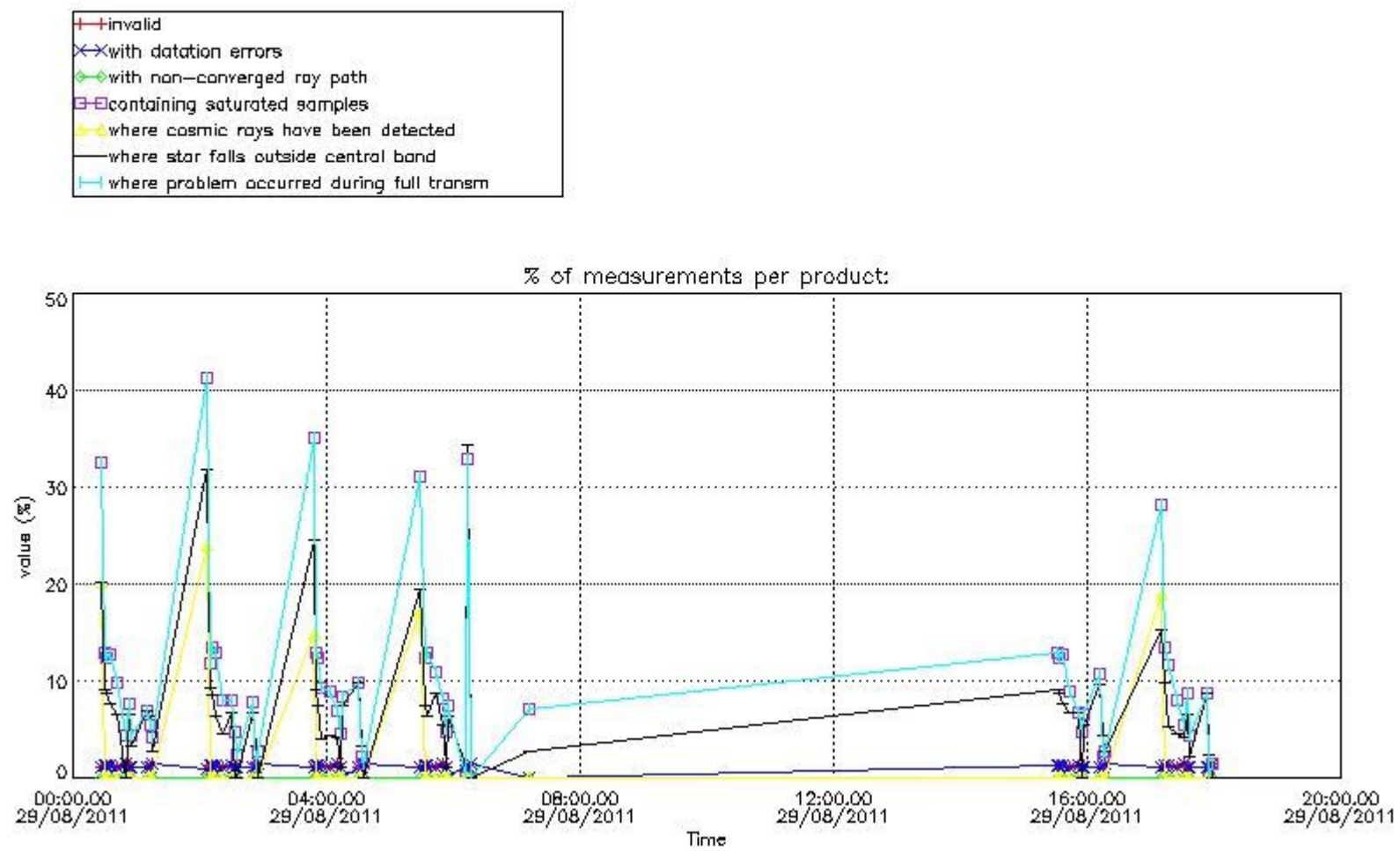
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

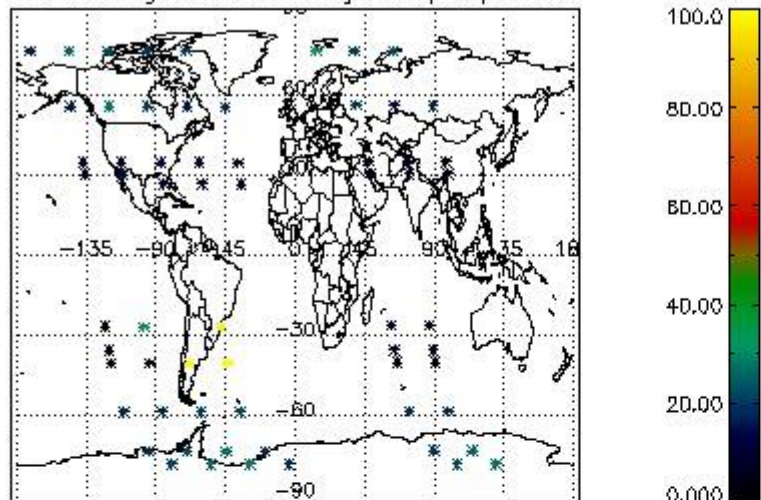


#### 4.2 Plot quality information per product coming from level 1b processing (world map)

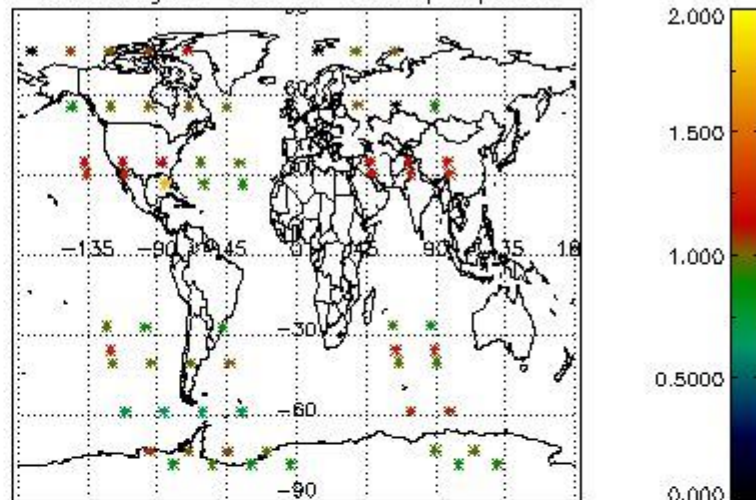
##### 4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes



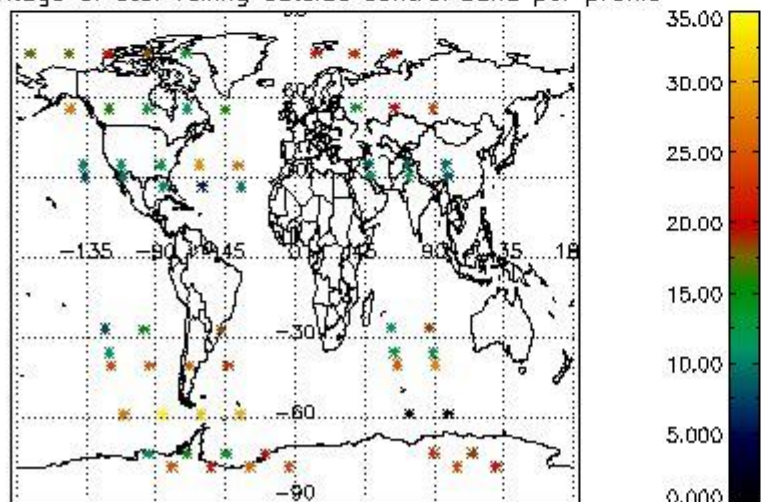
Percentage of cosmic ray hits per profile



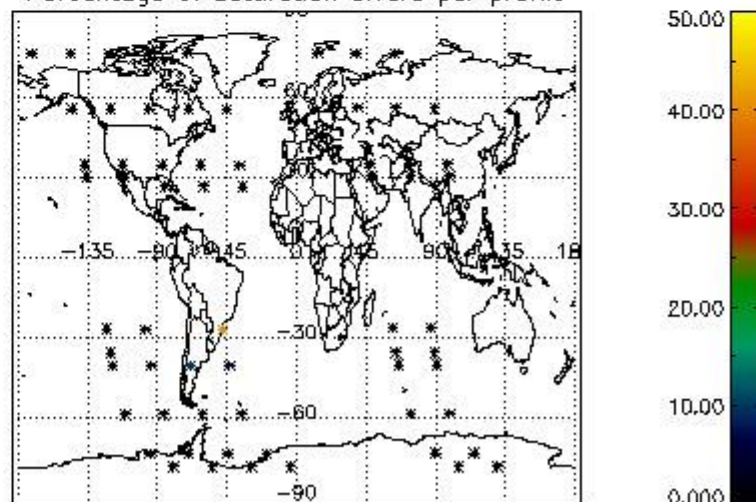
Percentage of datation errors per profile



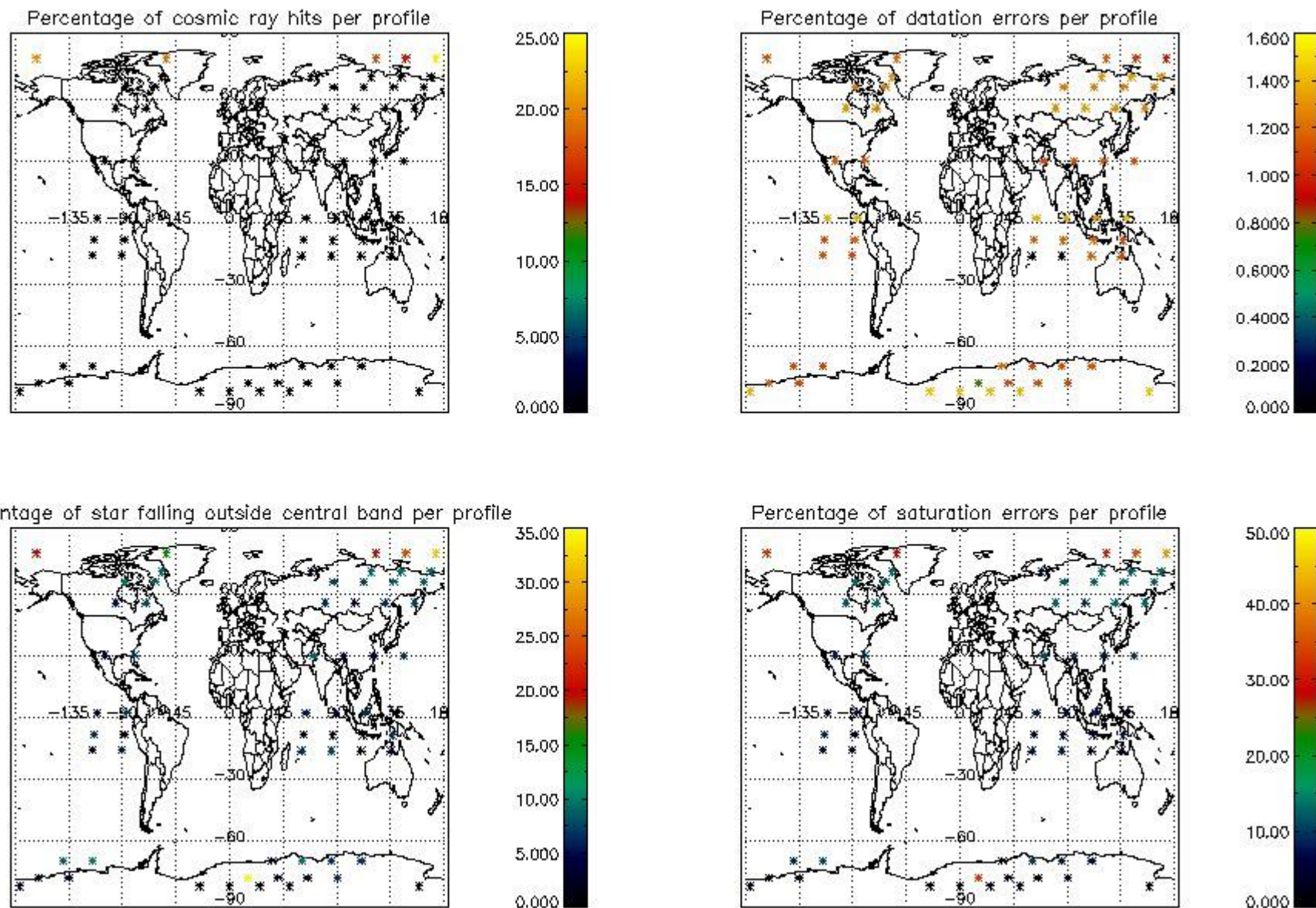
Percentage of star falling outside central band per profile



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

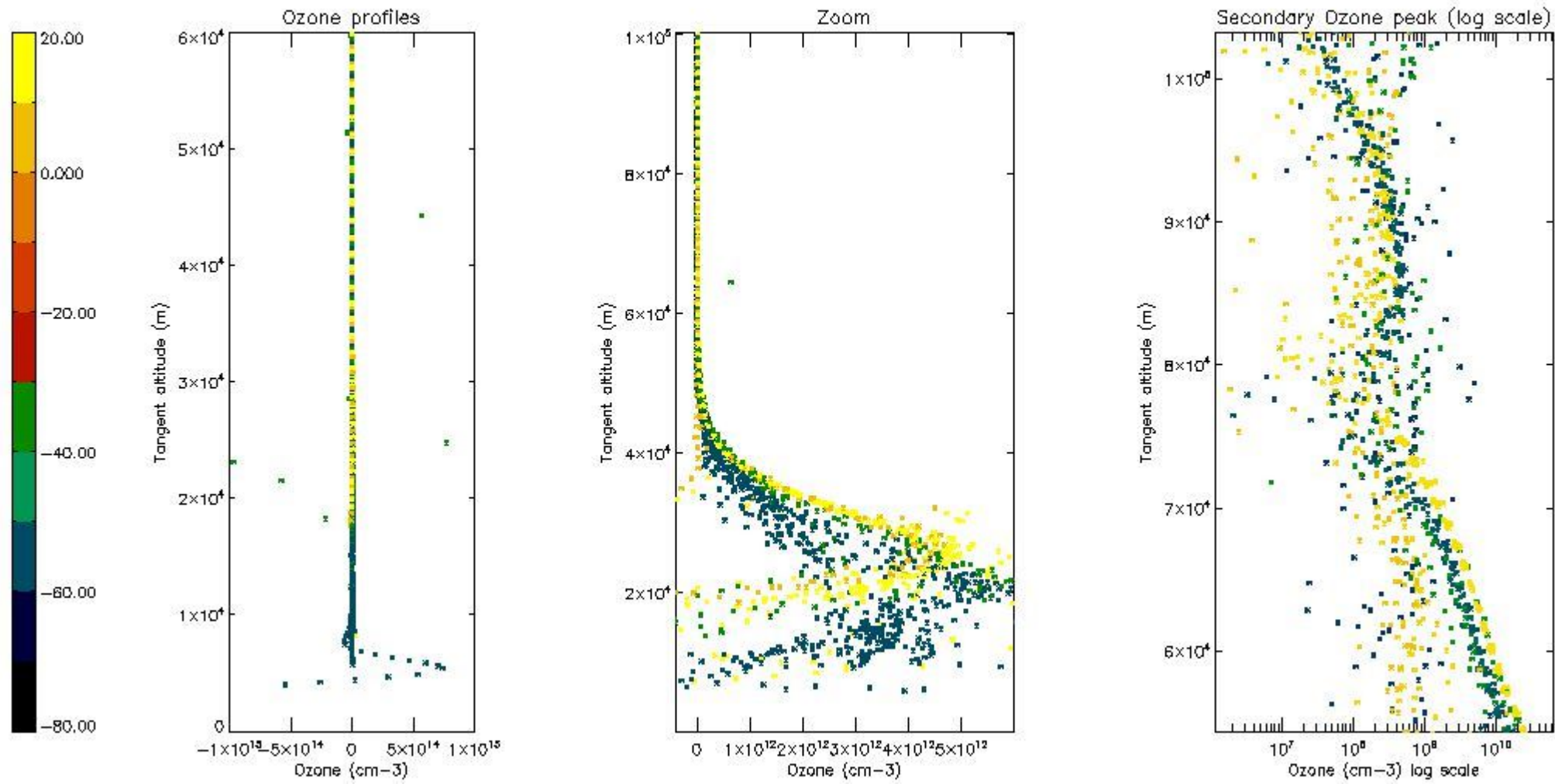
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	31
STD < 20	15

STD < 10	12
STD < 5	8

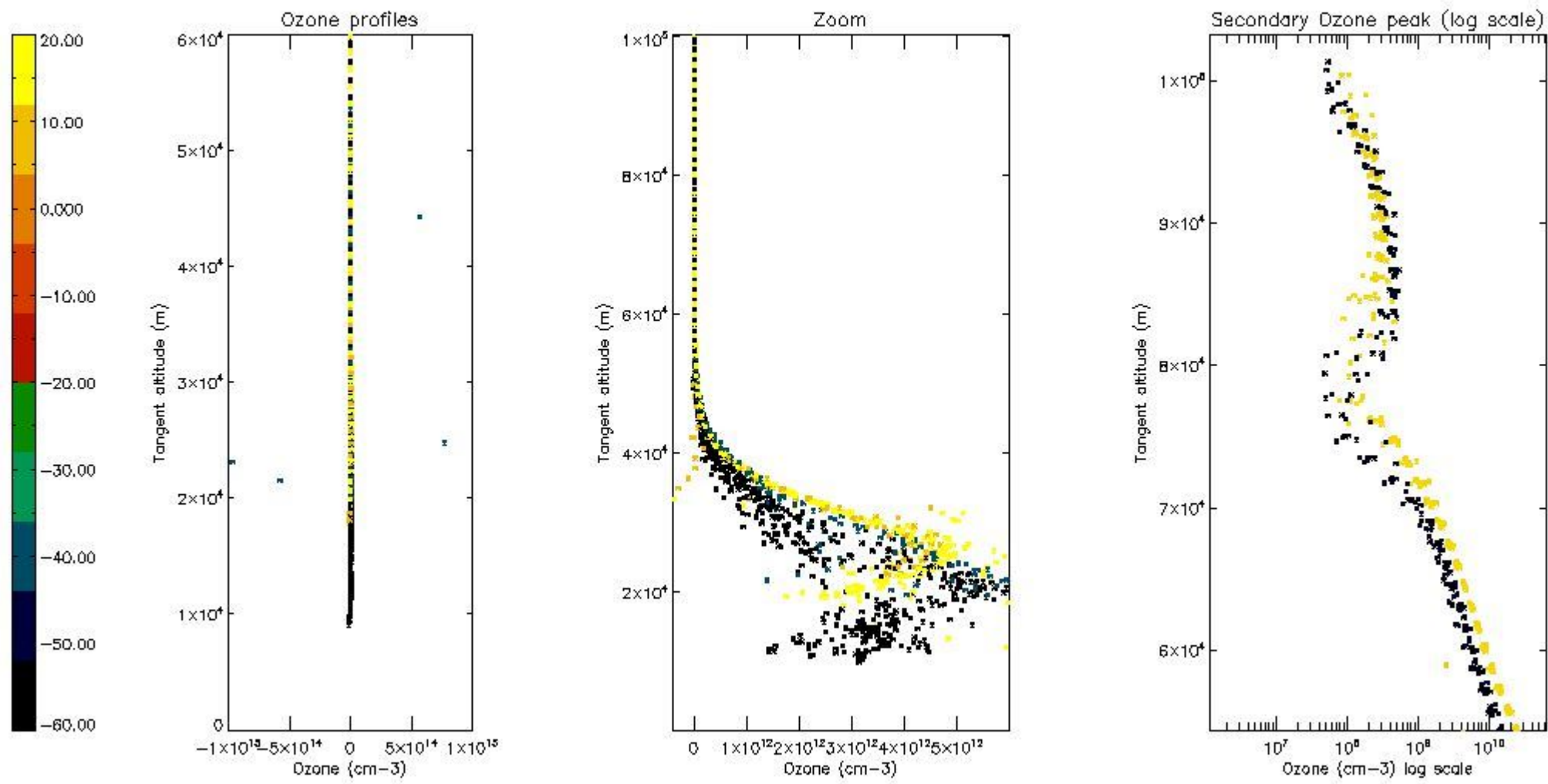
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



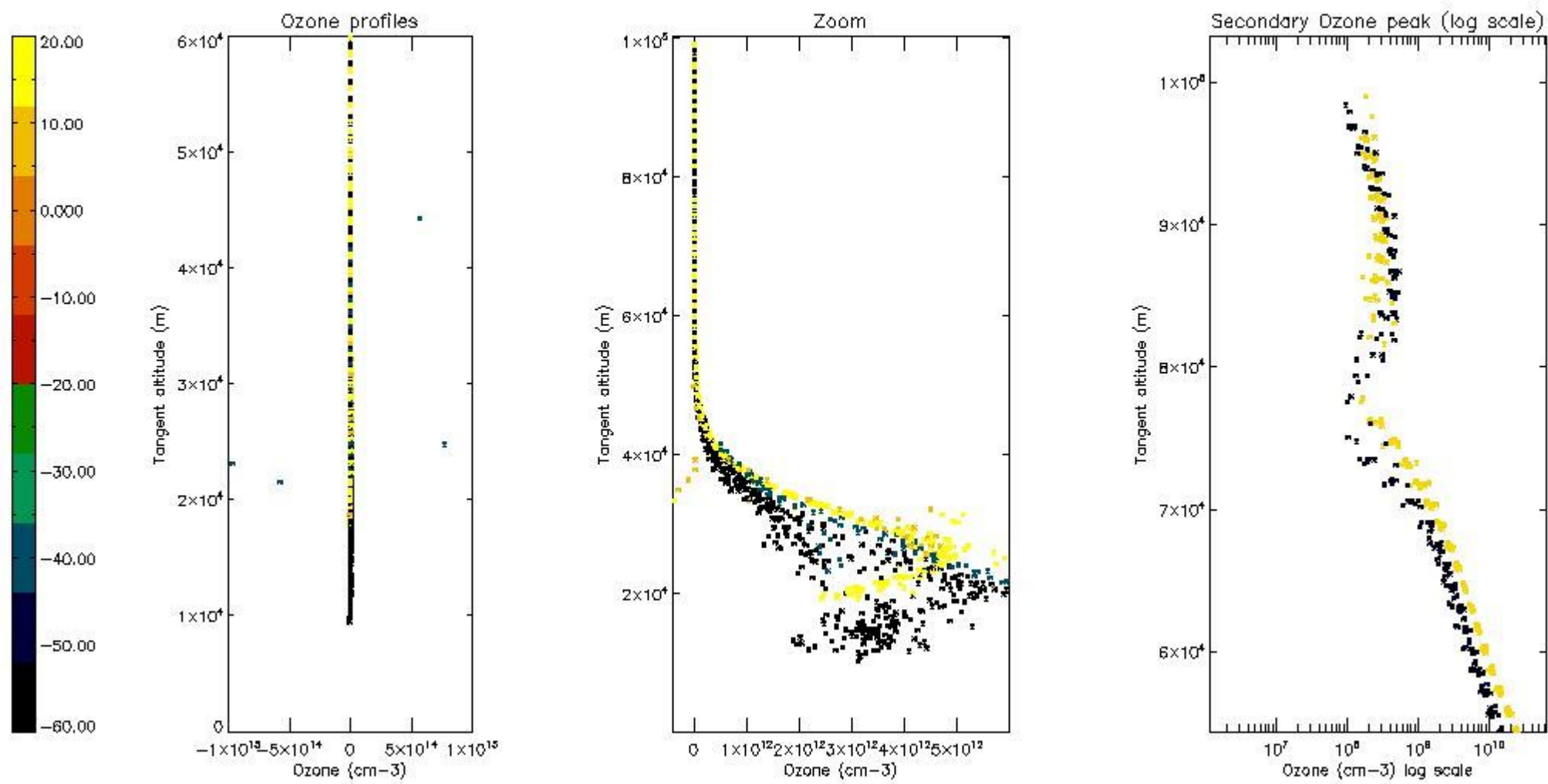
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



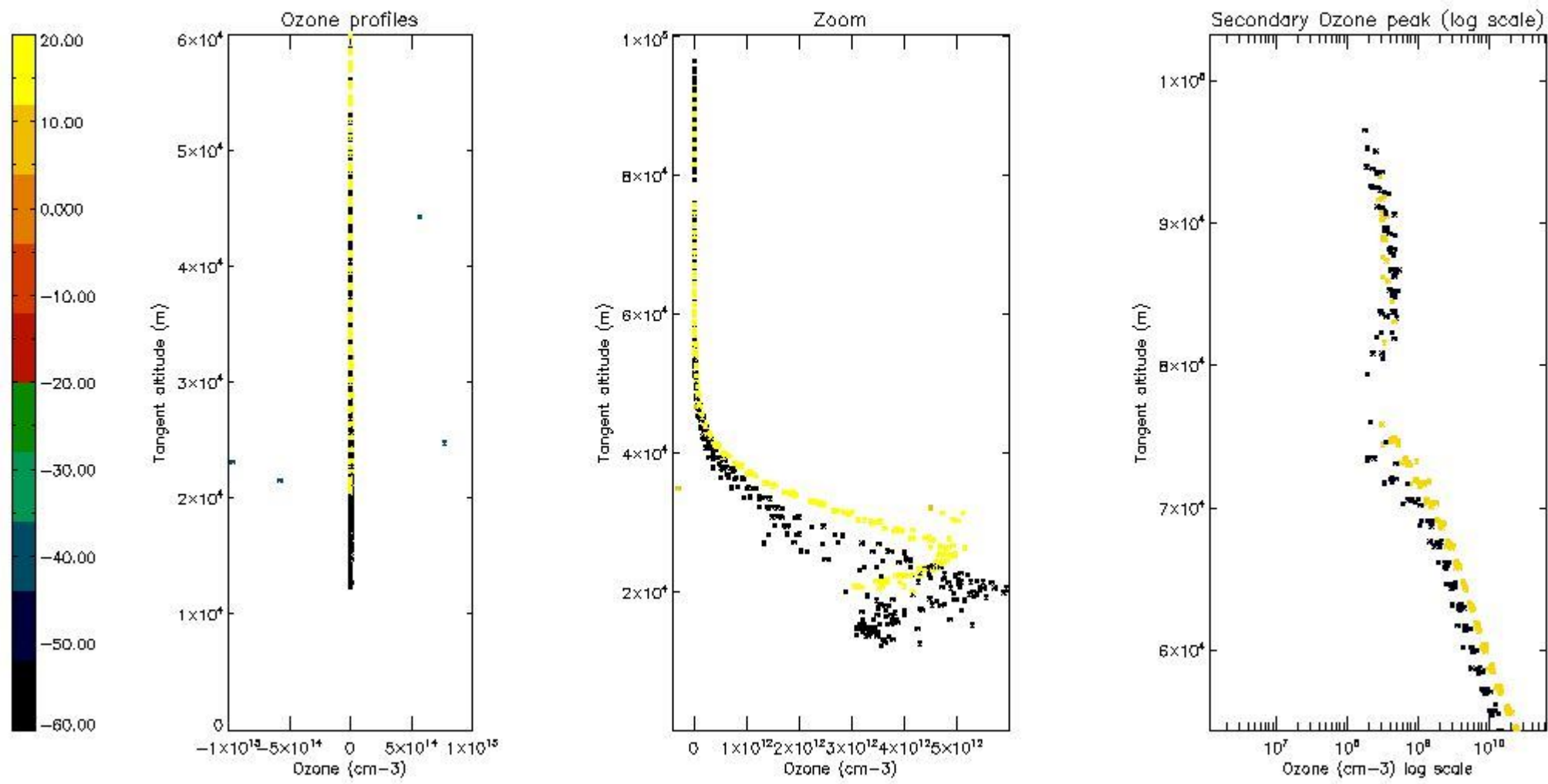
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



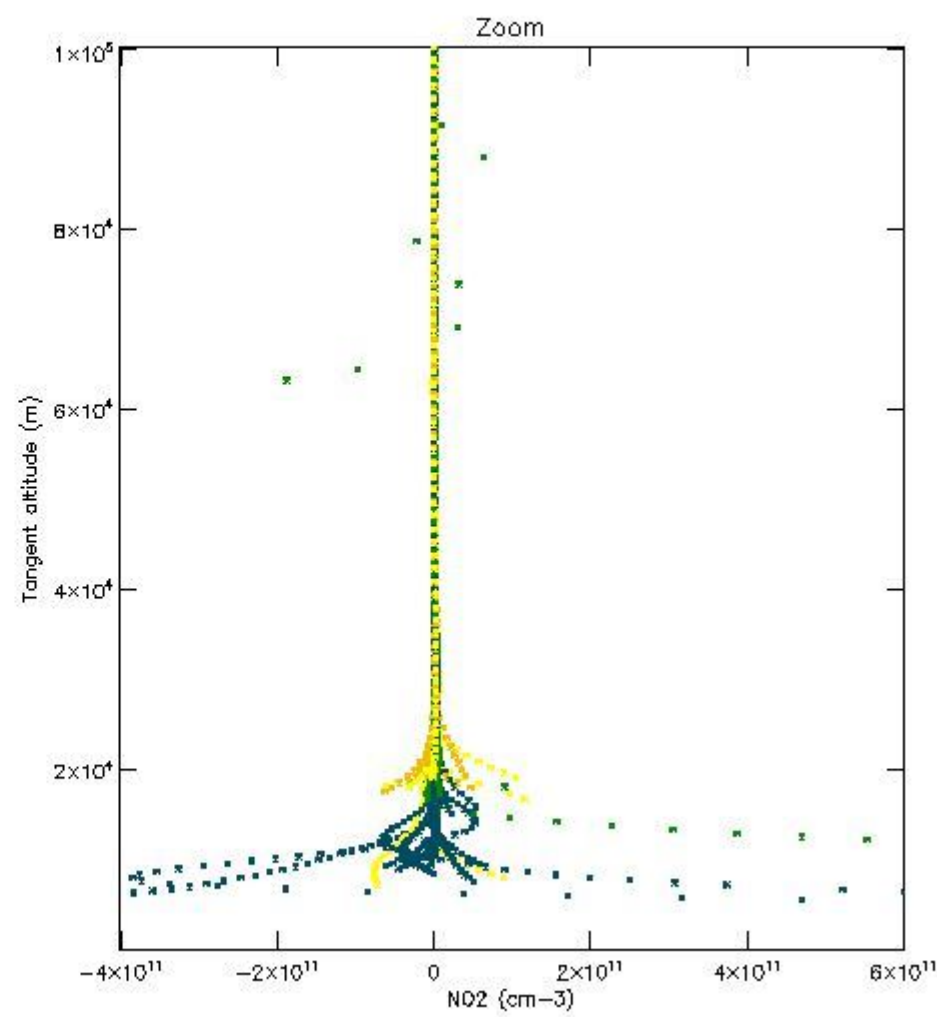
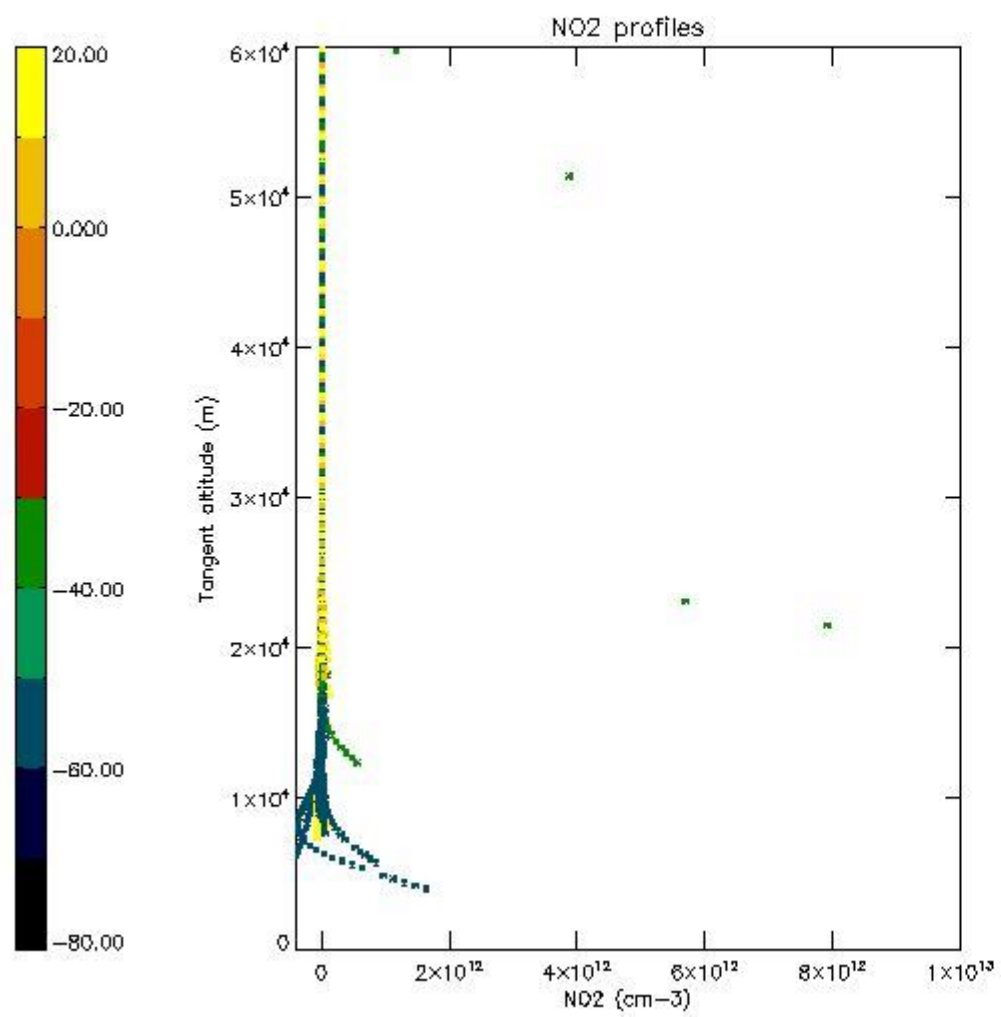
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



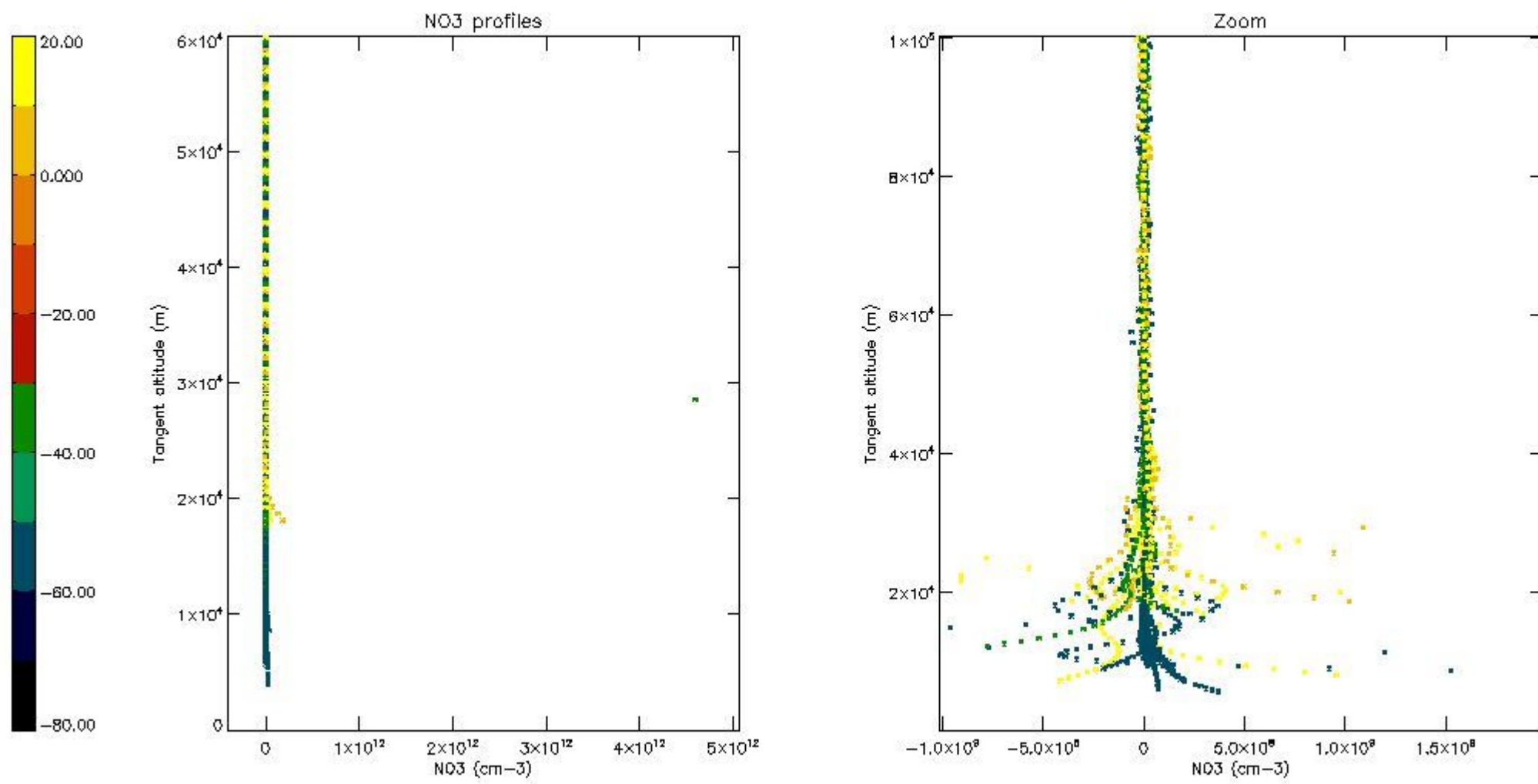
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

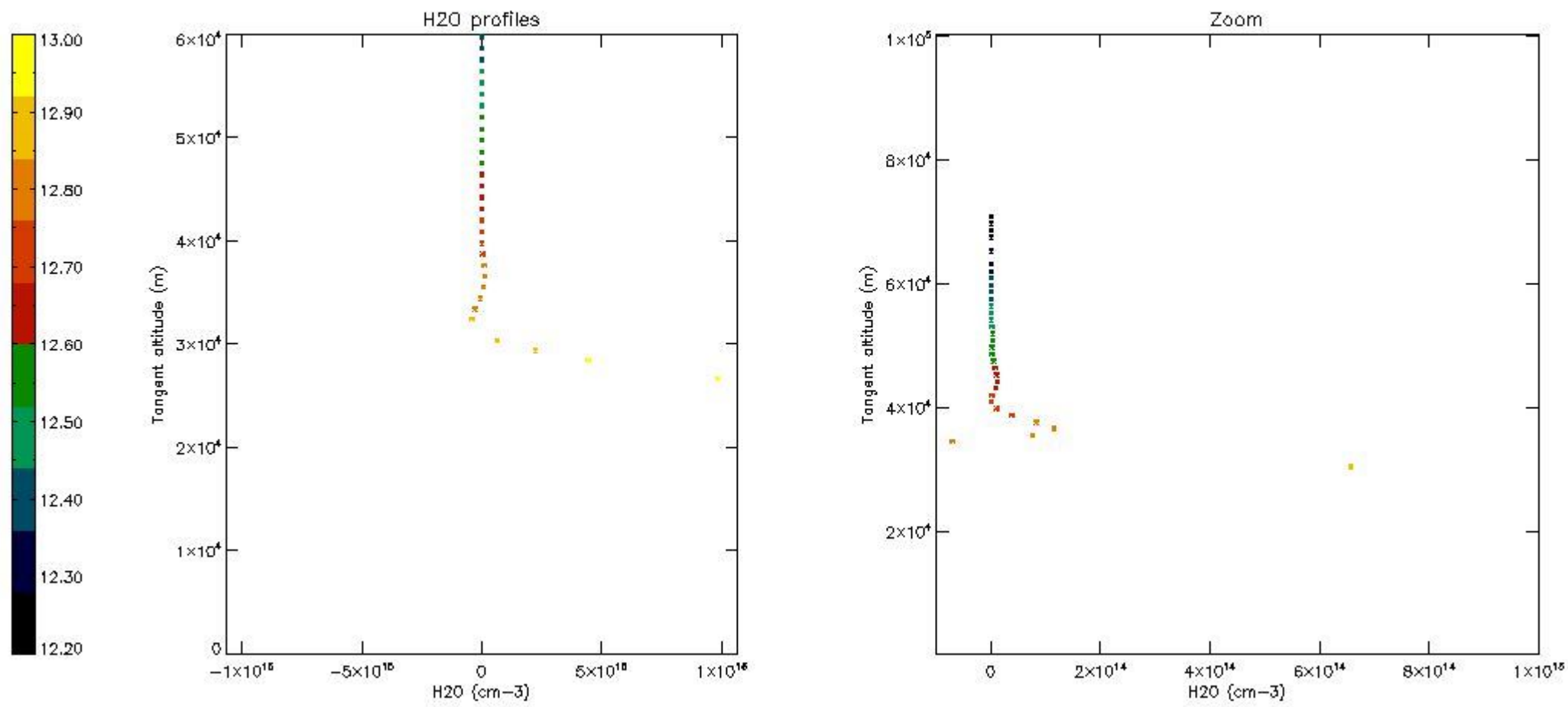
The colorbar represents the latitude.



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	29-AUG-2011 00:07:48
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	29-AUG-2011 00:07:48
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	29-AUG-2011 00:07:48

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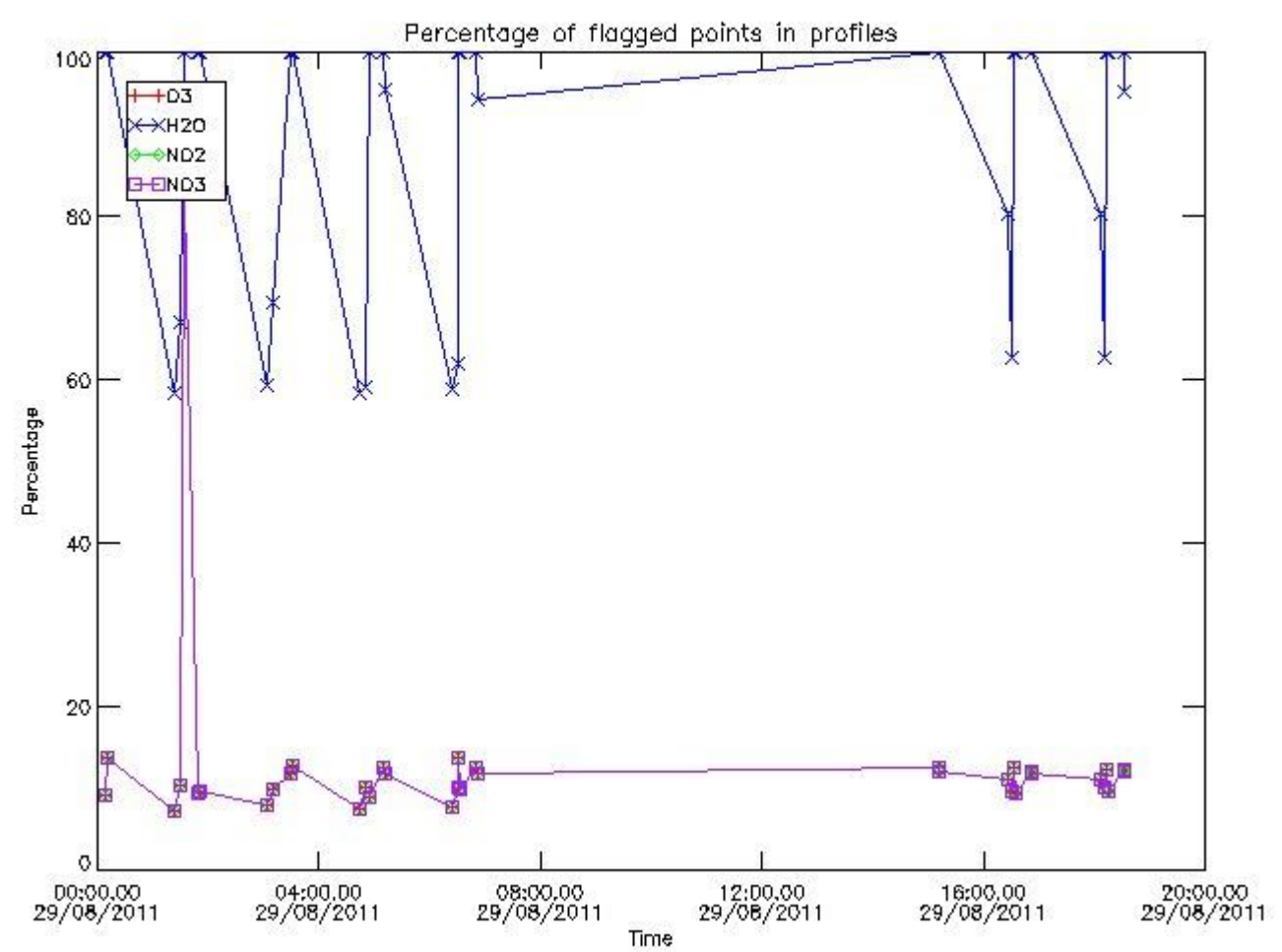


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113	GOM_NL__2PRFIN20110829_173206_000000373106_00084_49667_8459.N1	29-AUG-2011 17:32:06	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	49667	No
114	GOM_NL__2PRFIN20110829_173503_000000463106_00084_49667_8460.N1	29-AUG-2011 17:35:03	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	49667	No
115	GOM_NL__2PRFIN20110829_173711_000000453106_00084_49667_8461.N1	29-AUG-2011 17:37:11	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	49667	No
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122	GOM_NL__2PRFIN20110829_181143_000000503106_00084_49667_8468.N1	29-AUG-2011 18:11:43	Dark	50.000	1	9Alp CMa	-1.4400	11000.	100	49667	No
123	GOM_NL__2PRFIN20110829_181302_000000423106_00084_49667_8469.N1	29-AUG-2011 18:13:02	Dark	41.500	179	24Omi2CMa	3.0320	24000.	83	49667	No
124	GOM_NL__2PRFIN20110829_181538_000000543106_00084_49667_8470.N1	29-AUG-2011 18:15:38	Dark	53.500	101	11Alp Lep	2.5820	7000.0	107	49667	No
125	GOM_NL__2PRFIN20110829_183129_000000423106_00085_49668_8491.N1	29-AUG-2011 18:31:29	Dark	41.500	143	Alp Hyi	2.8570	7200.0	83	49668	No
126	GOM_NL__2PRFIN20110829_183245_000000423106_00085_49668_8492.N1	29-AUG-2011 18:32:45	Dark	42.000	9	Alp Eri	0.45300	24000.	84	49668	No
127	GOM_NL__2PRFIN20110829_183841_000000493106_00085_49668_8493.N1	29-AUG-2011 18:38:41	Straylight	49.000	84	Alp Phe	2.3970	4500.0	98	49668	No
128	GOM_NL__2PRFIN20110829_184453_000000483106_00085_49668_8494.N1	29-AUG-2011 18:44:53	Straylight	48.000	18	24Alp PsA	1.1660	9700.0	96	49668	No

### 3. Quality information per product

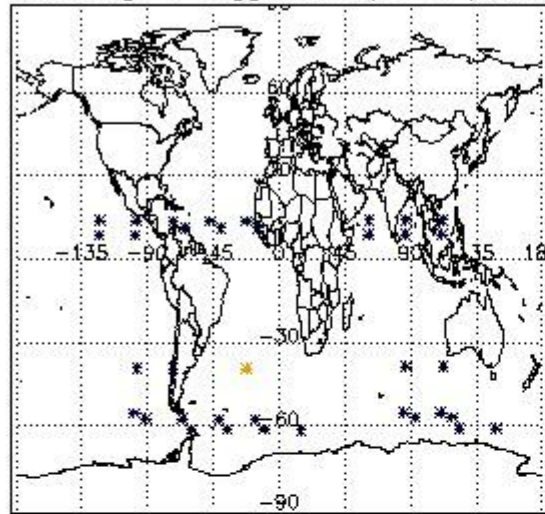
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

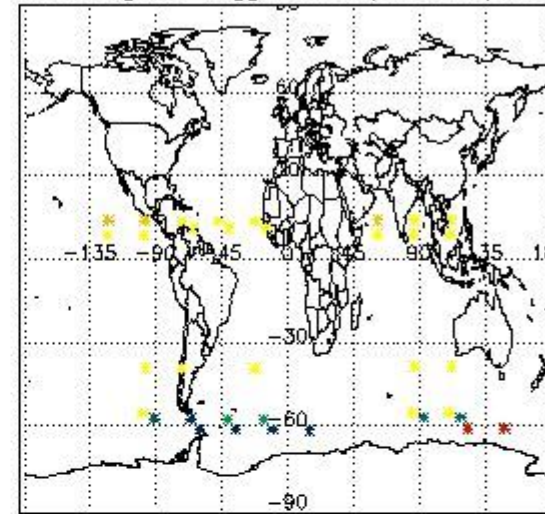


3.2 Plot quality information per product (world map)

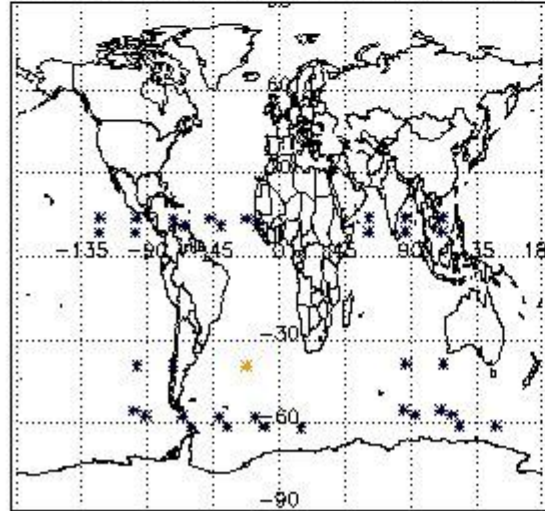
Percentage of flagged data per O3 profile



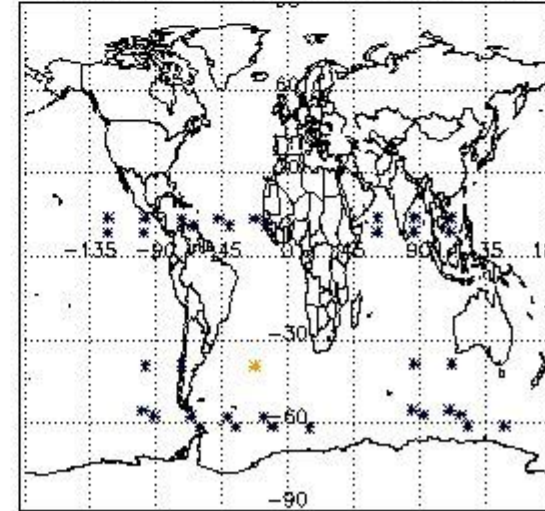
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

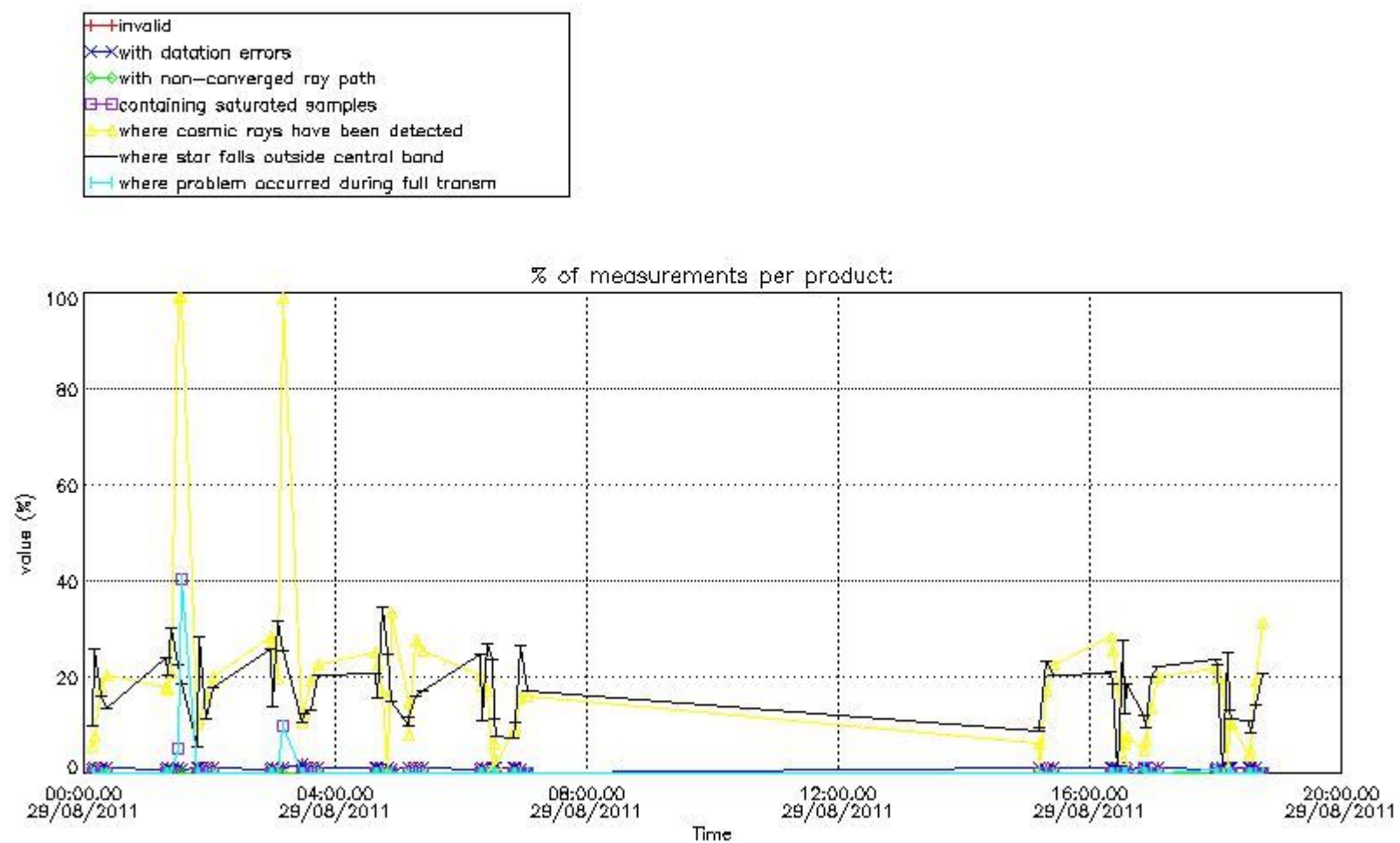


#### 4. Level 1 quality information per product

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.

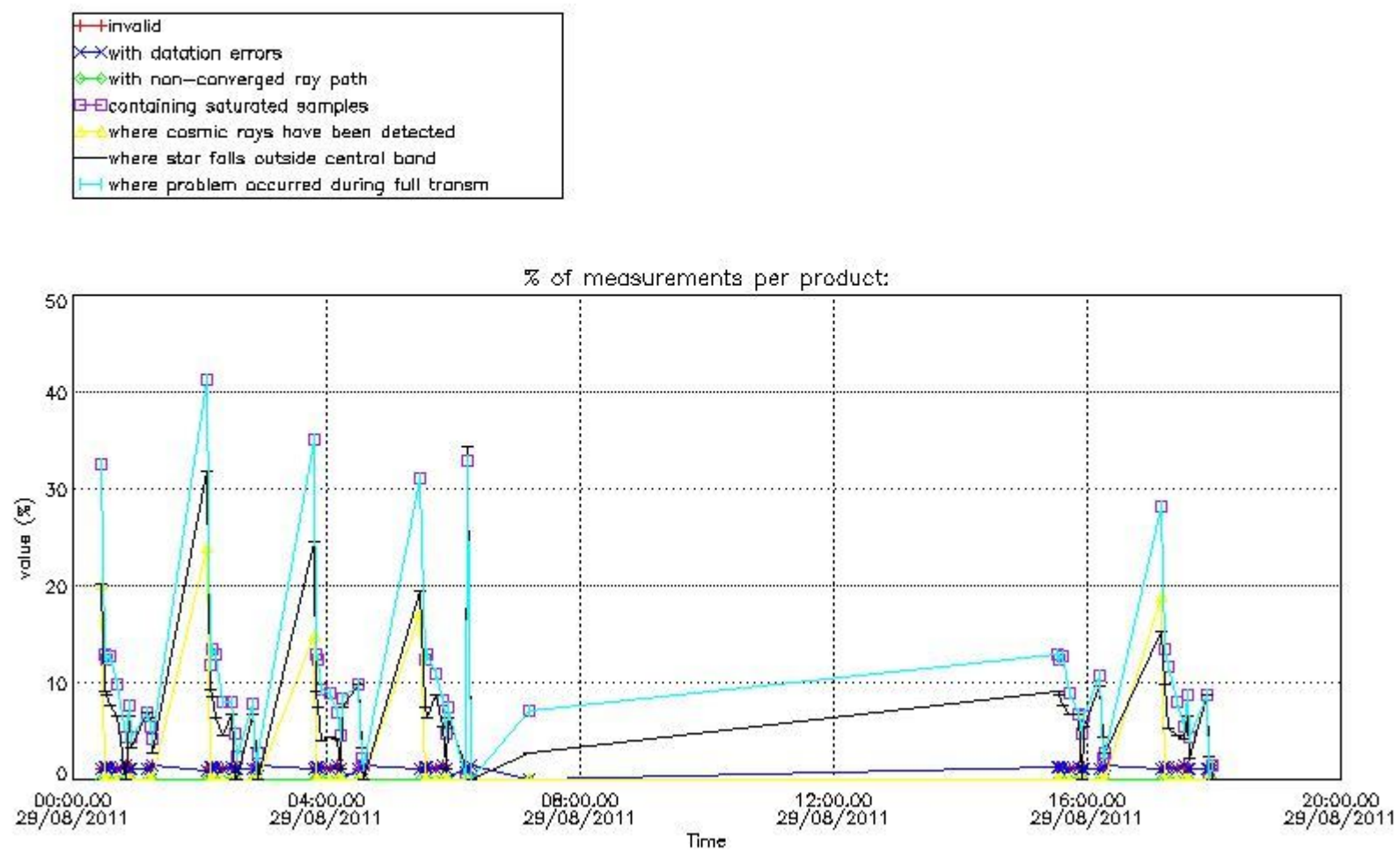
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

###### 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

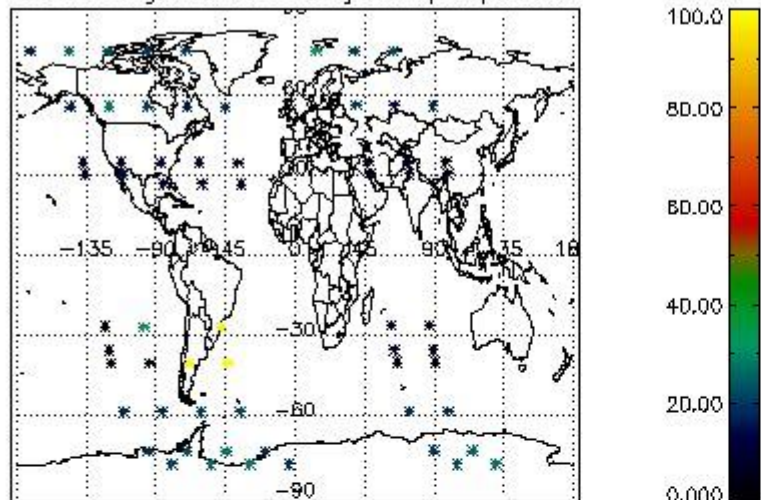




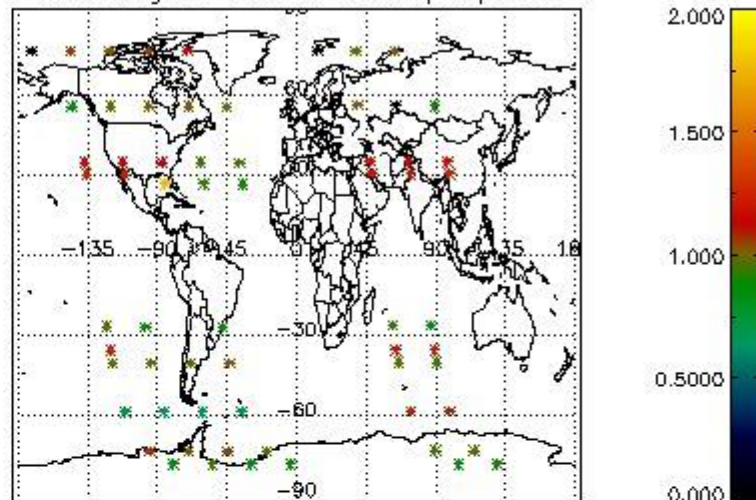
4.2 Plot quality information per product coming from level 1b processing (world map)

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

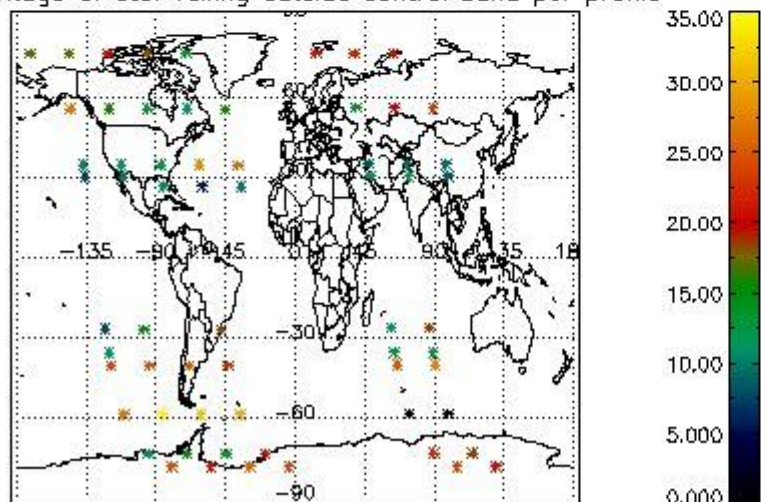
Percentage of cosmic ray hits per profile



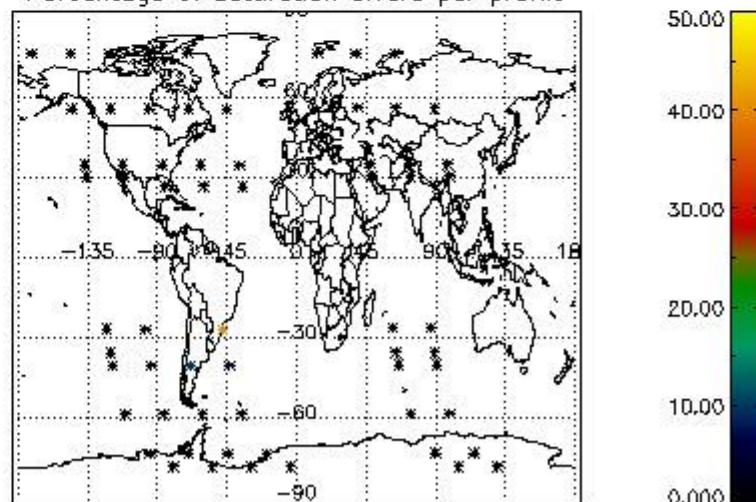
Percentage of datation errors per profile



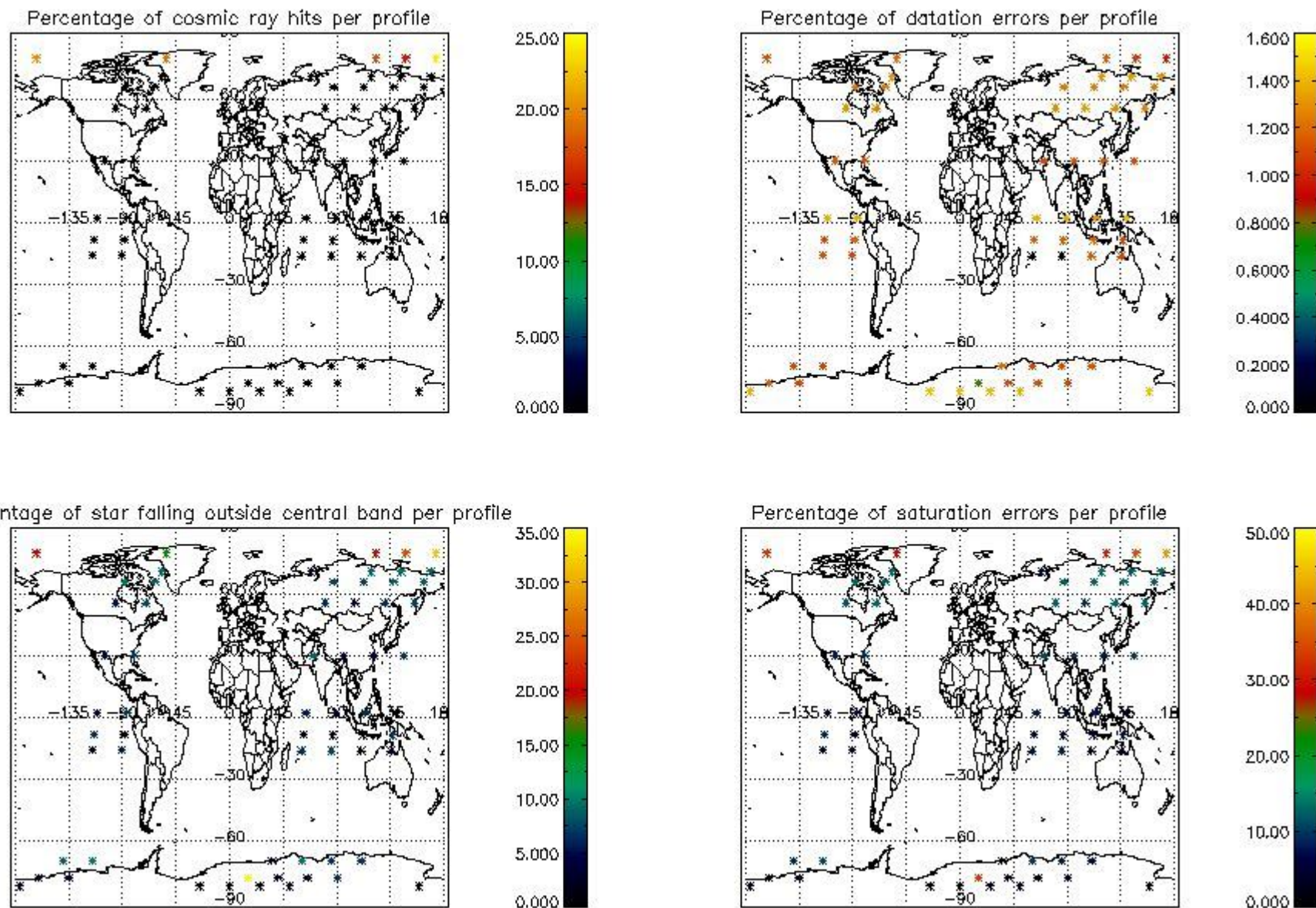
Percentage of star falling outside central band per profile



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

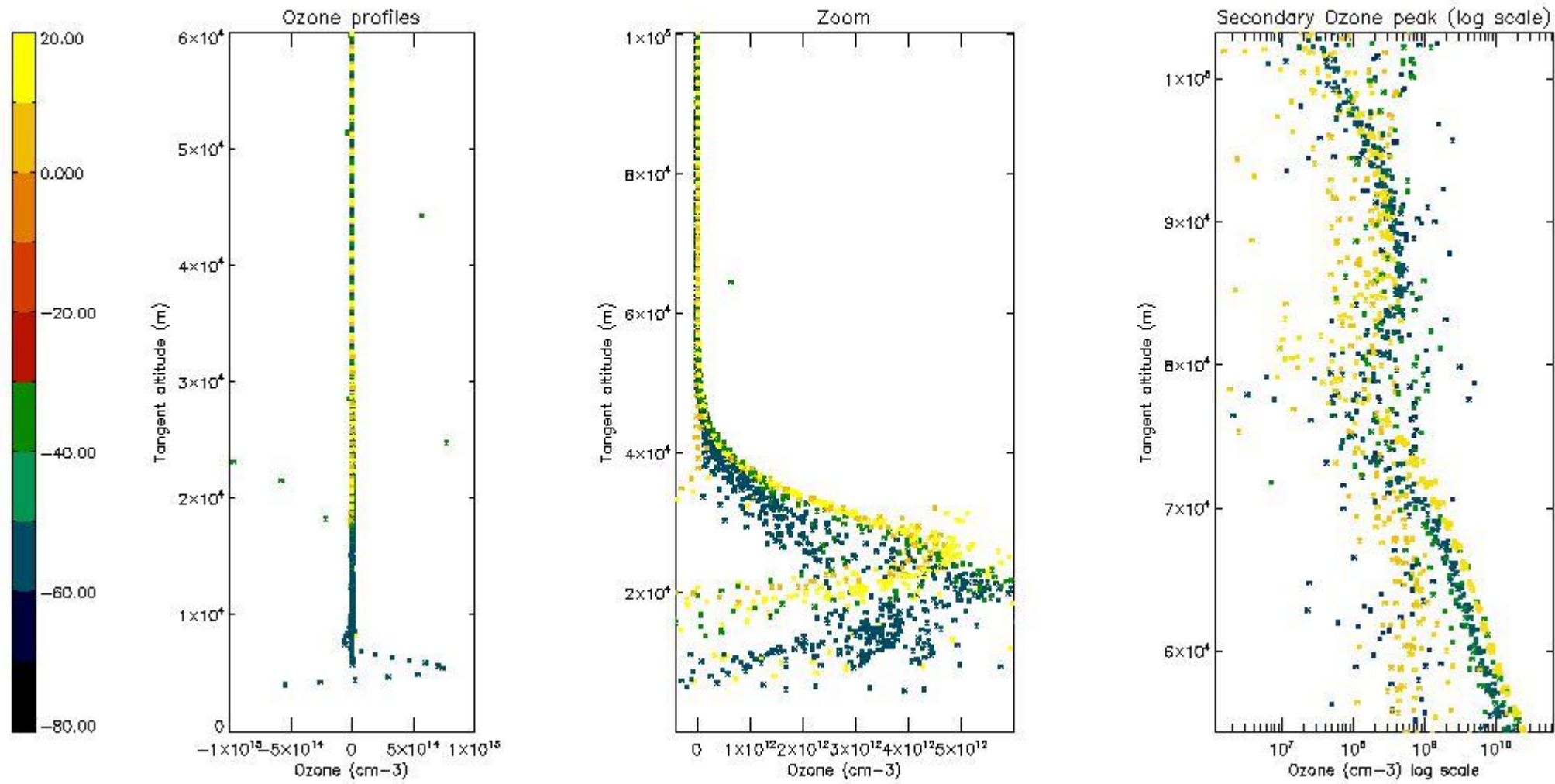
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	31
STD < 20	15

STD < 10	12
STD < 5	8

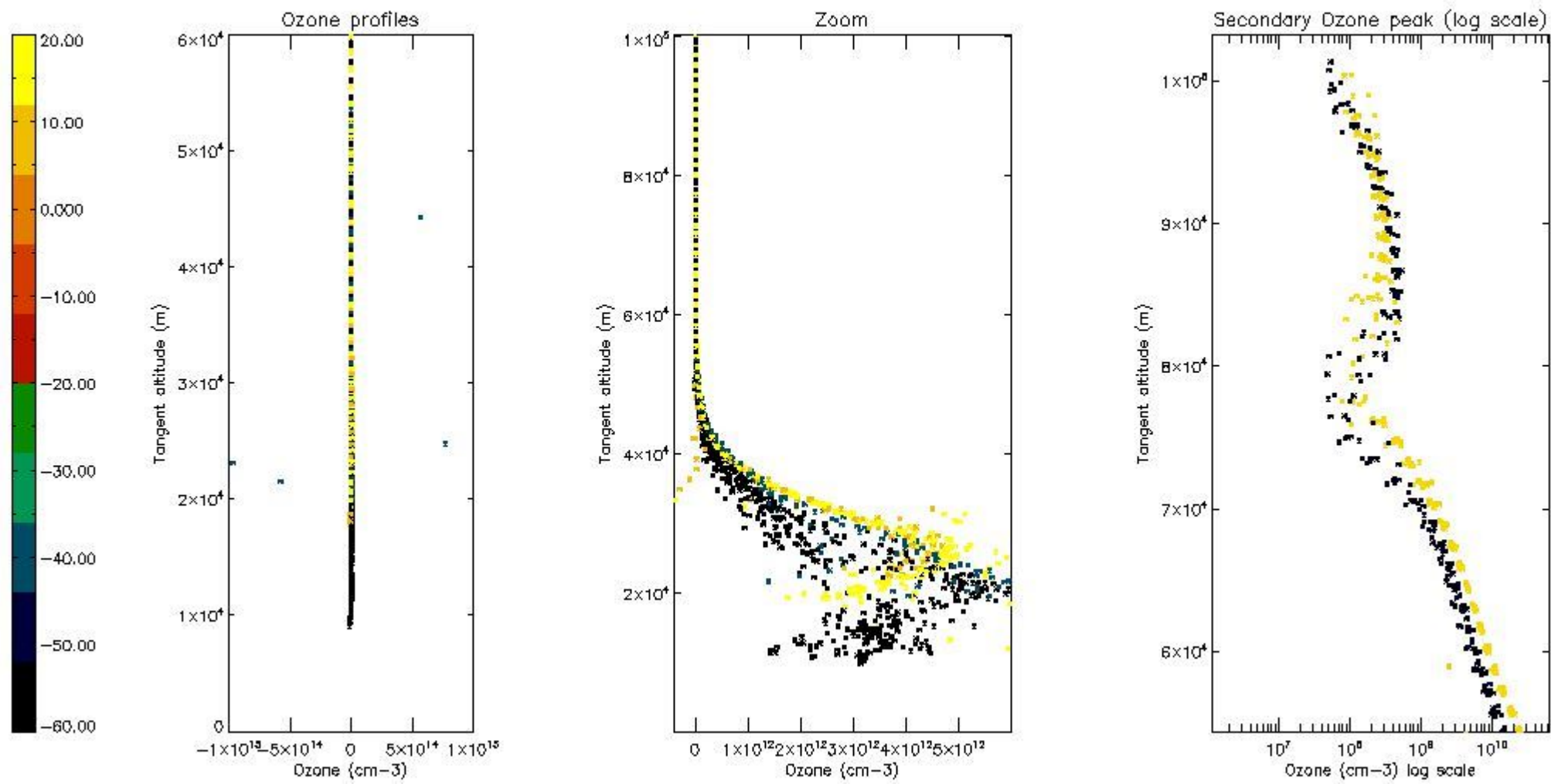
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



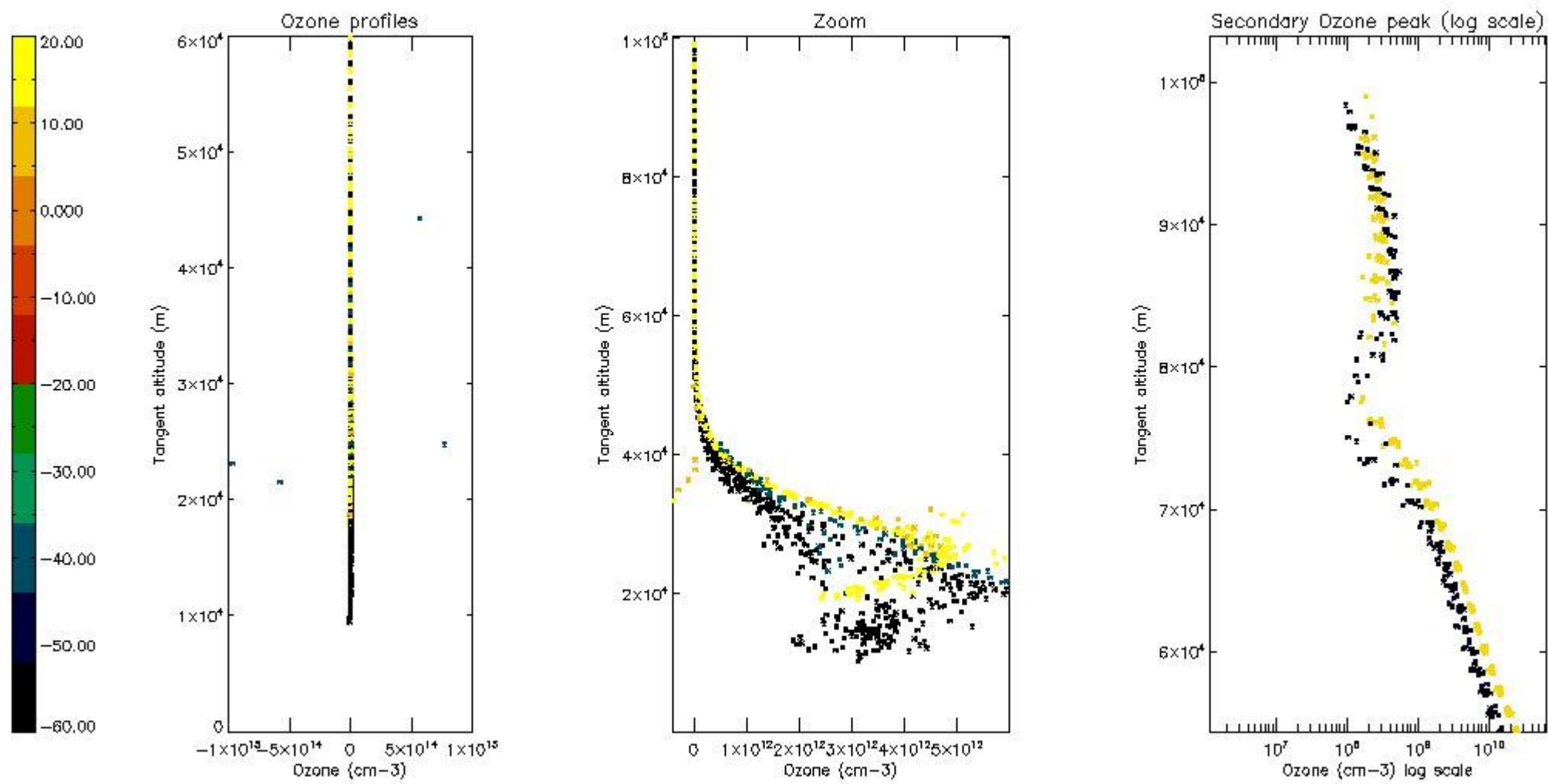
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



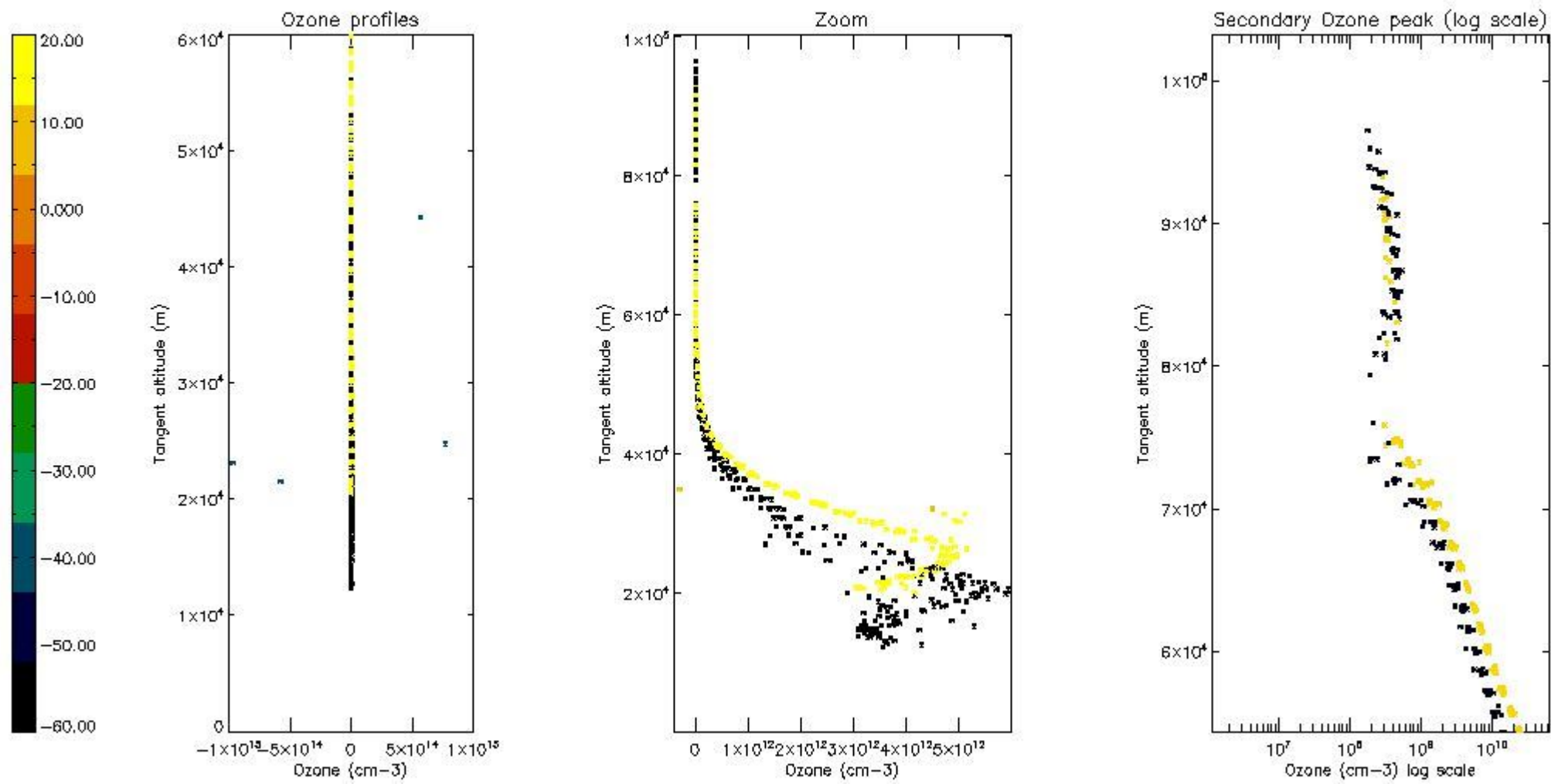
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



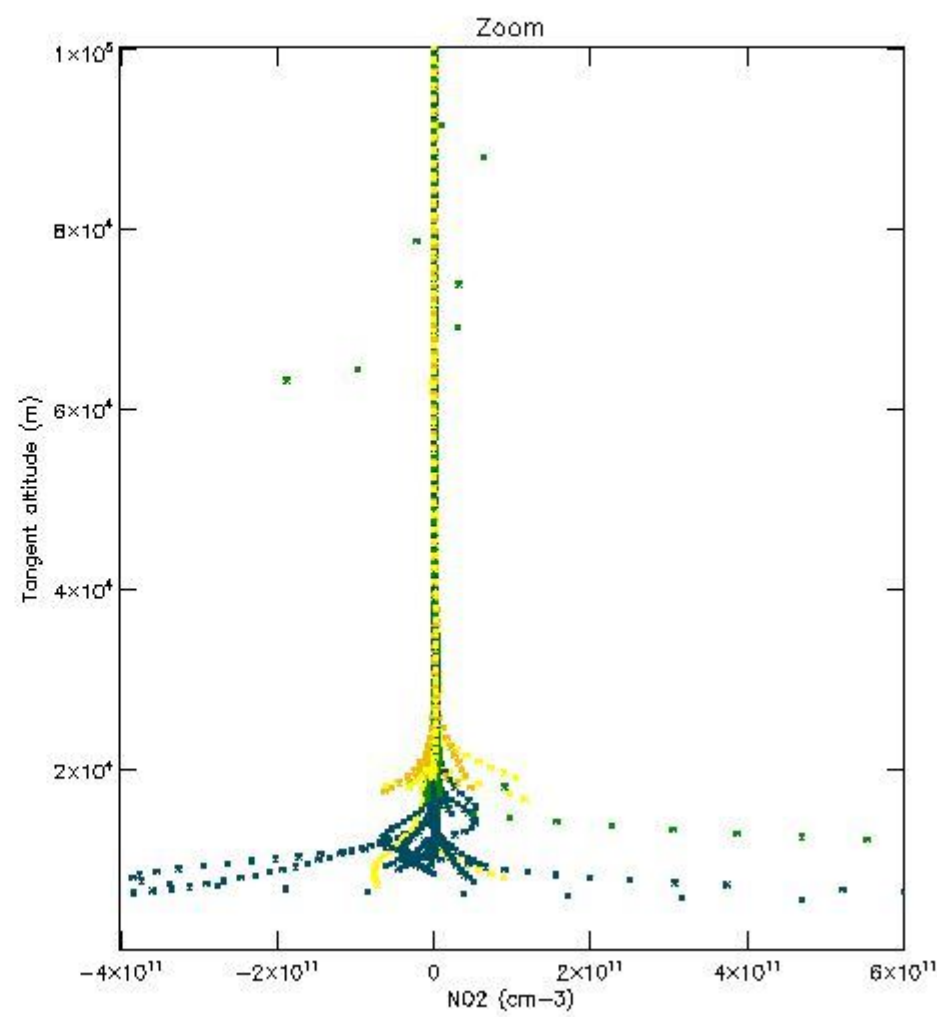
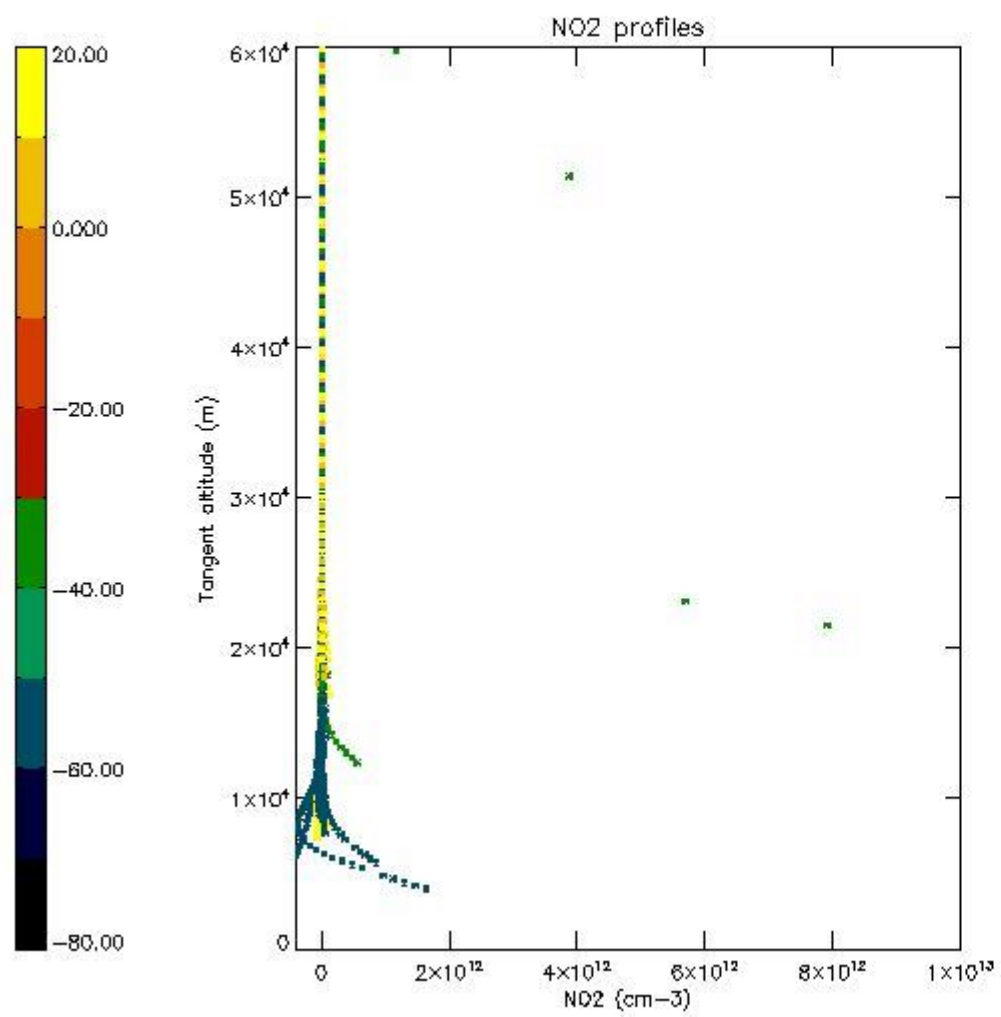
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



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

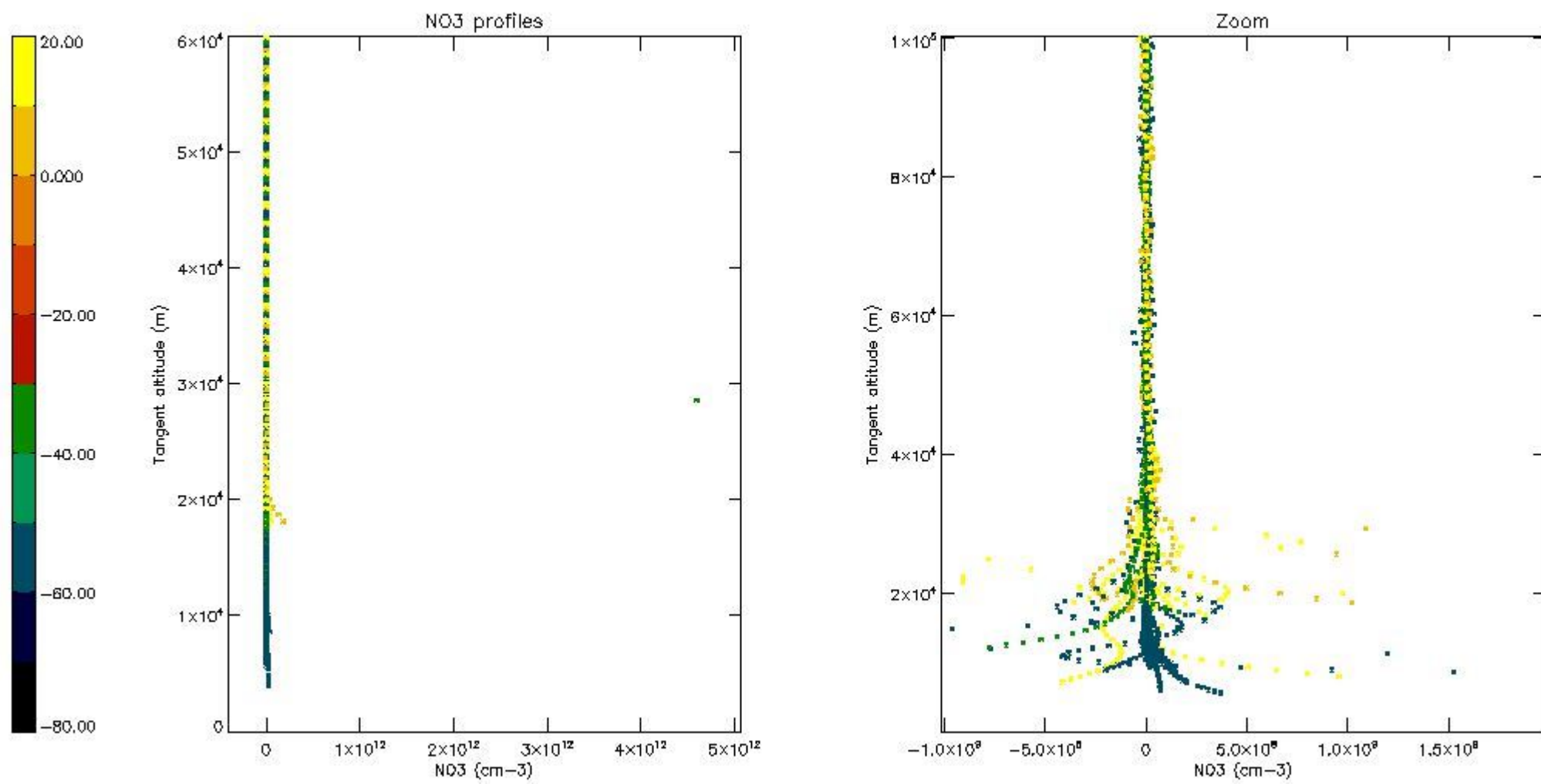
The colorbar represents the latitude.



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

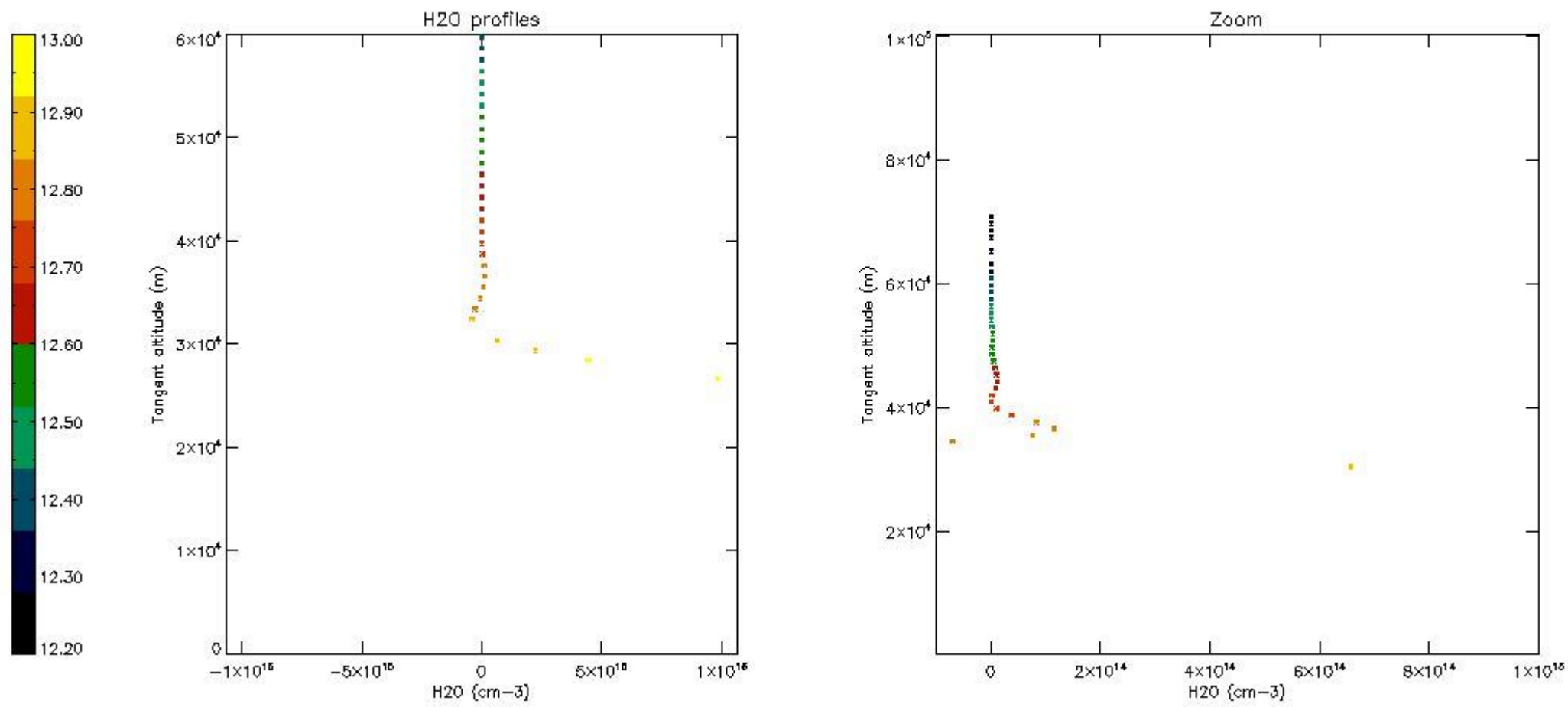
The colorbar represents the latitude.





*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)*

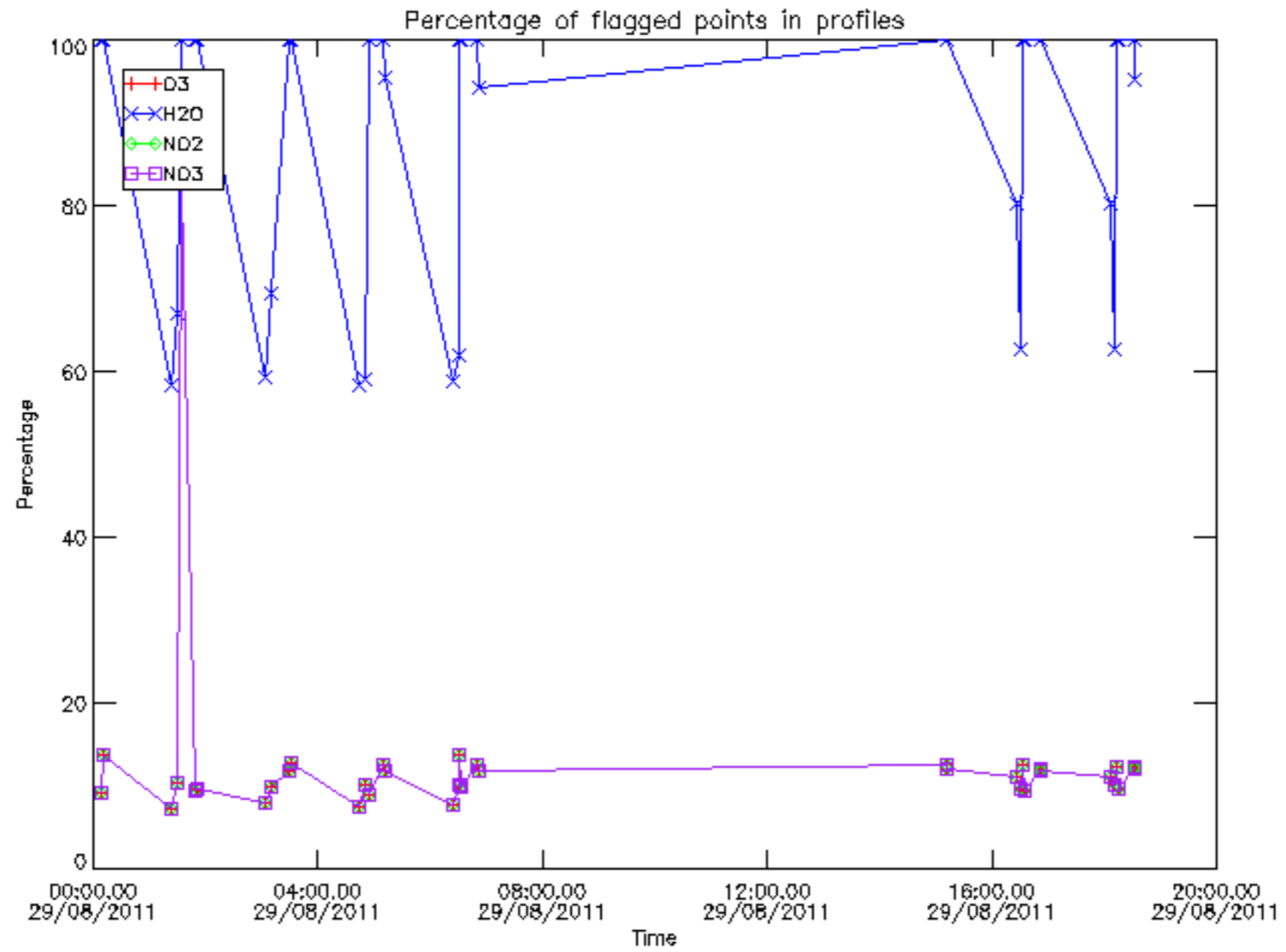
The colorbar represents the latitude.



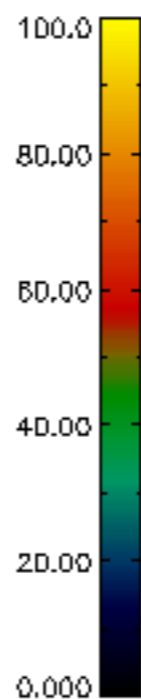
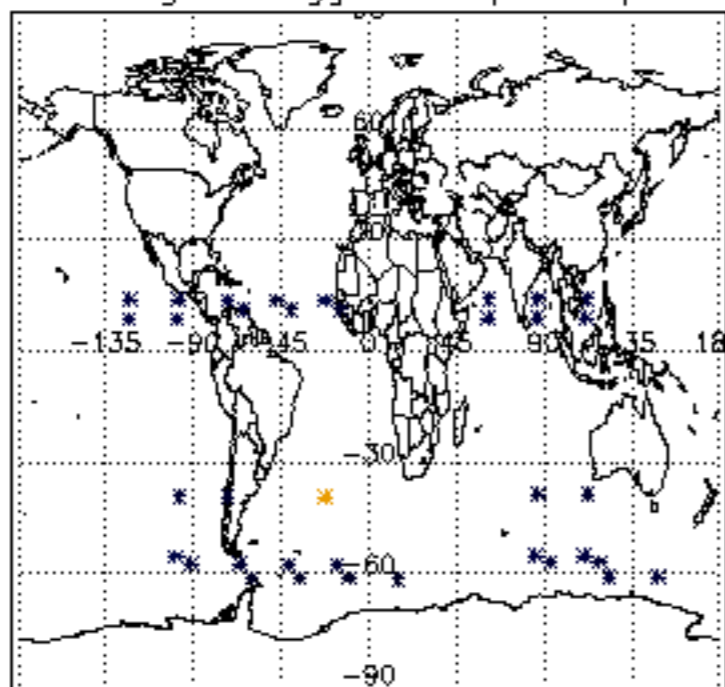
## 6. Auxiliary Data Files used for the production reported in section 2

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.

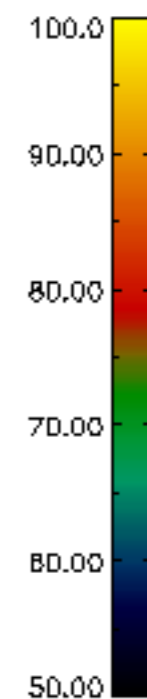
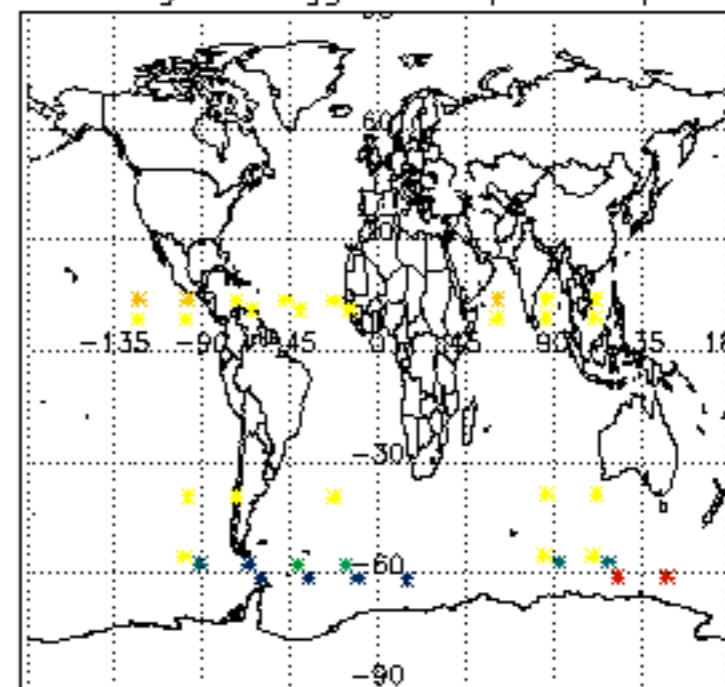
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	29-AUG-2011 00:07:48
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	29-AUG-2011 00:07:48
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	29-AUG-2011 00:07:48



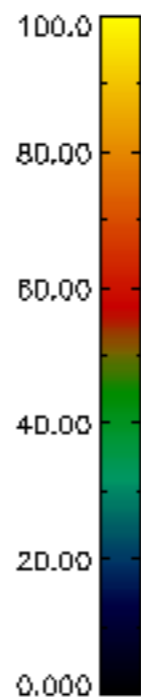
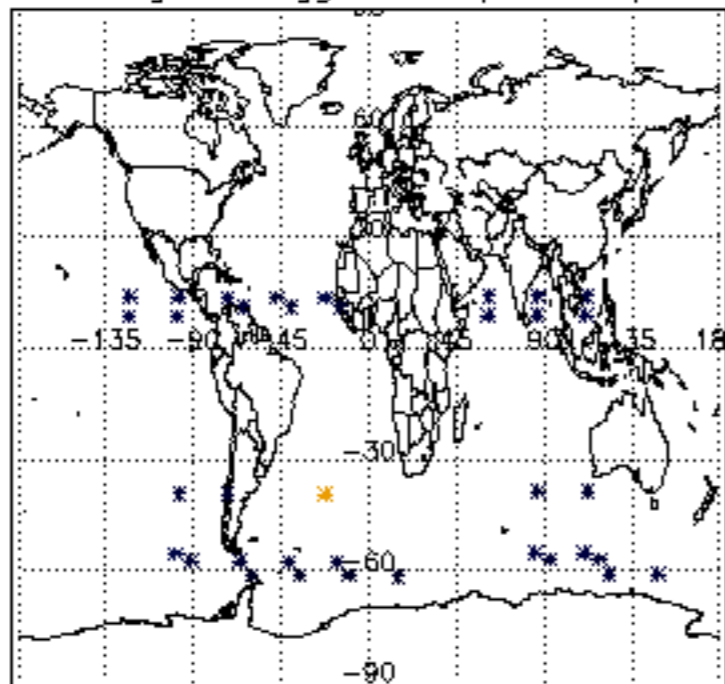
Percentage of flagged data per D3 profile



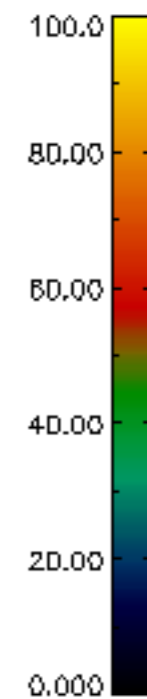
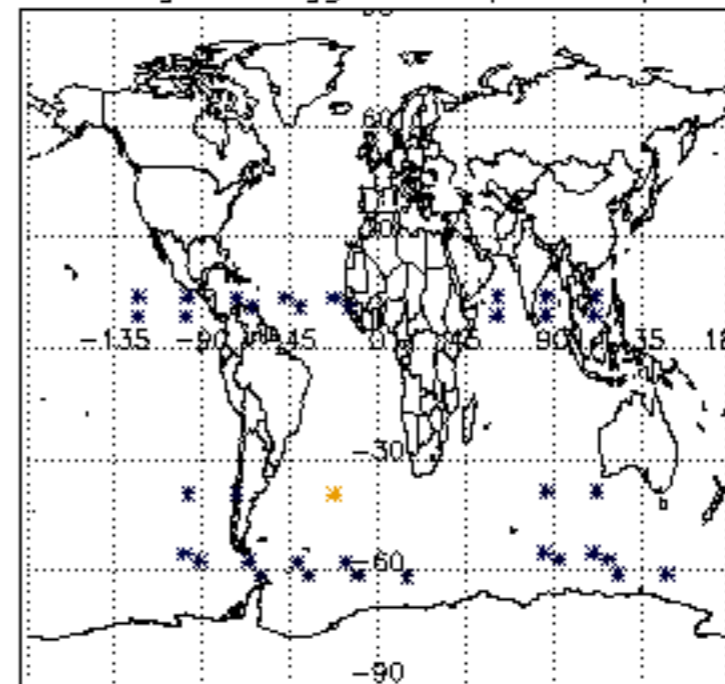
Percentage of flagged data per H2O profile

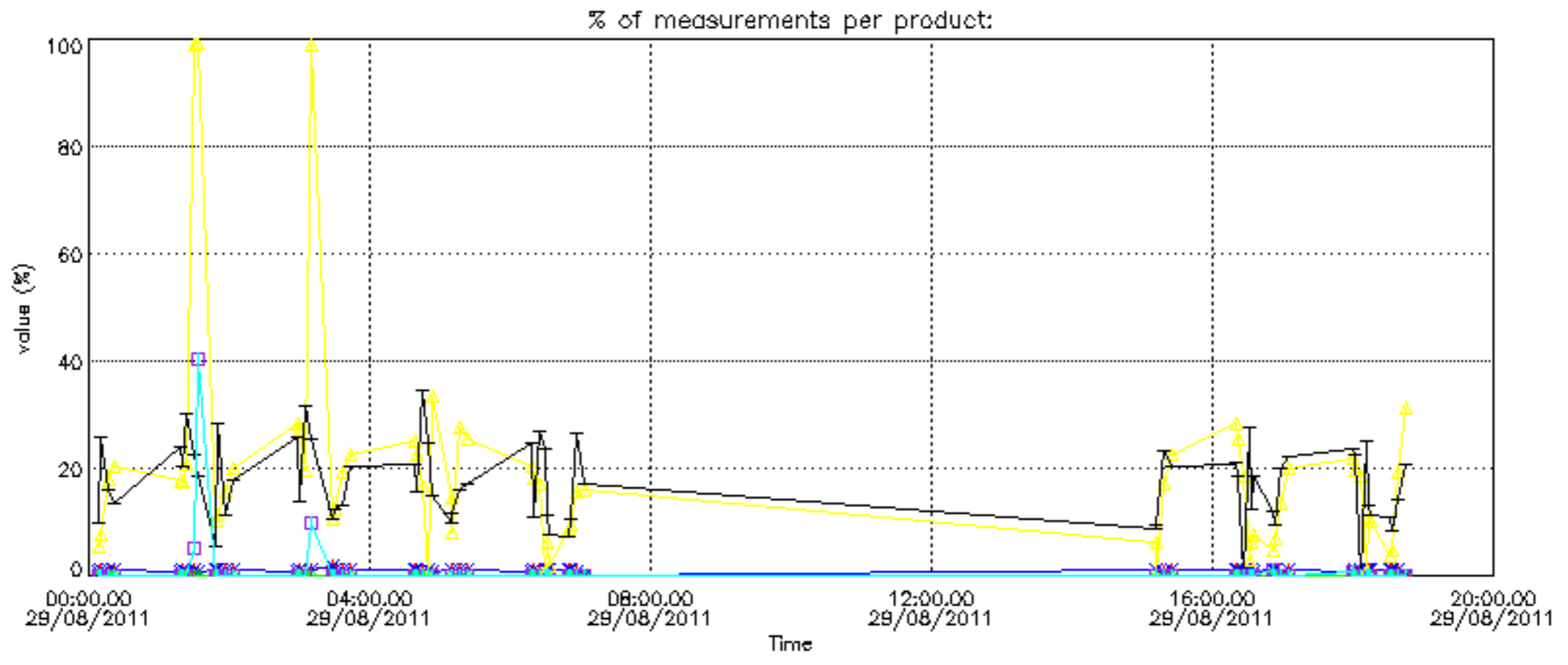


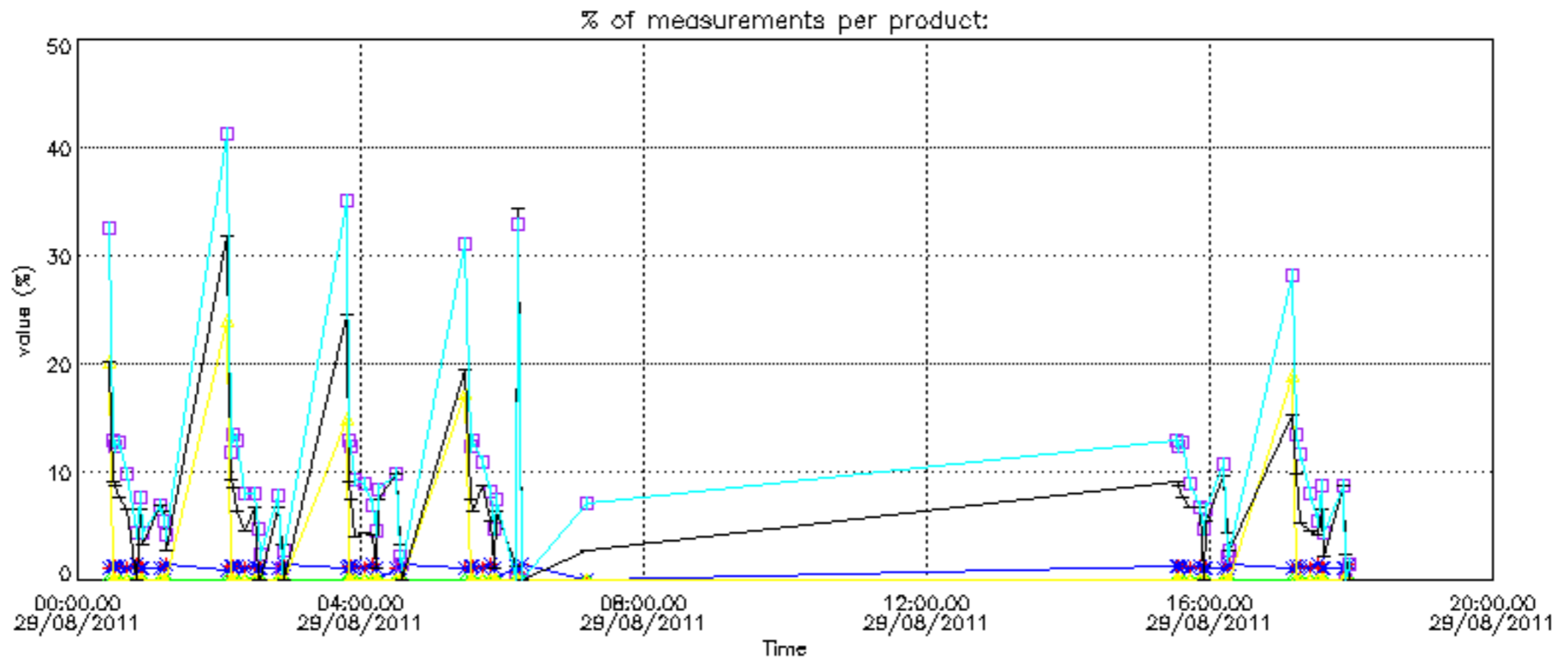
Percentage of flagged data per NO2 profile



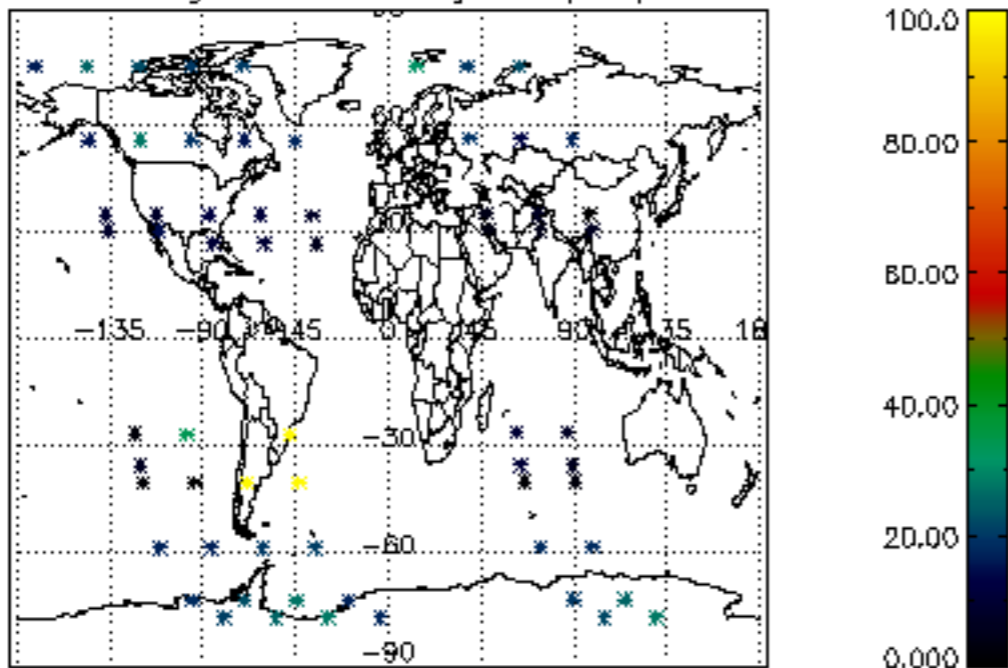
Percentage of flagged data per NO3 profile



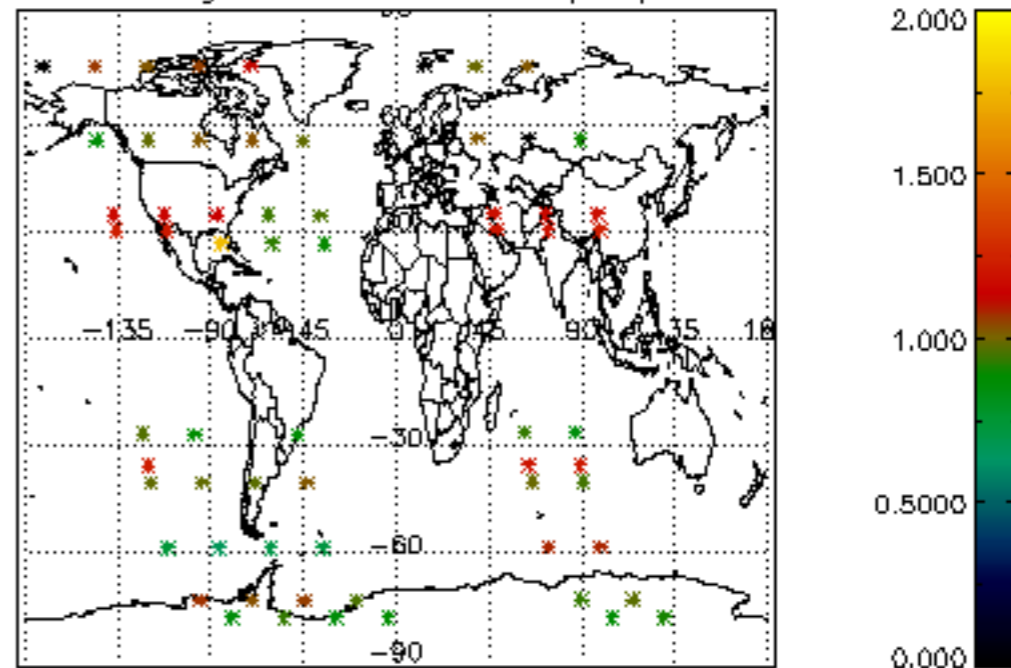




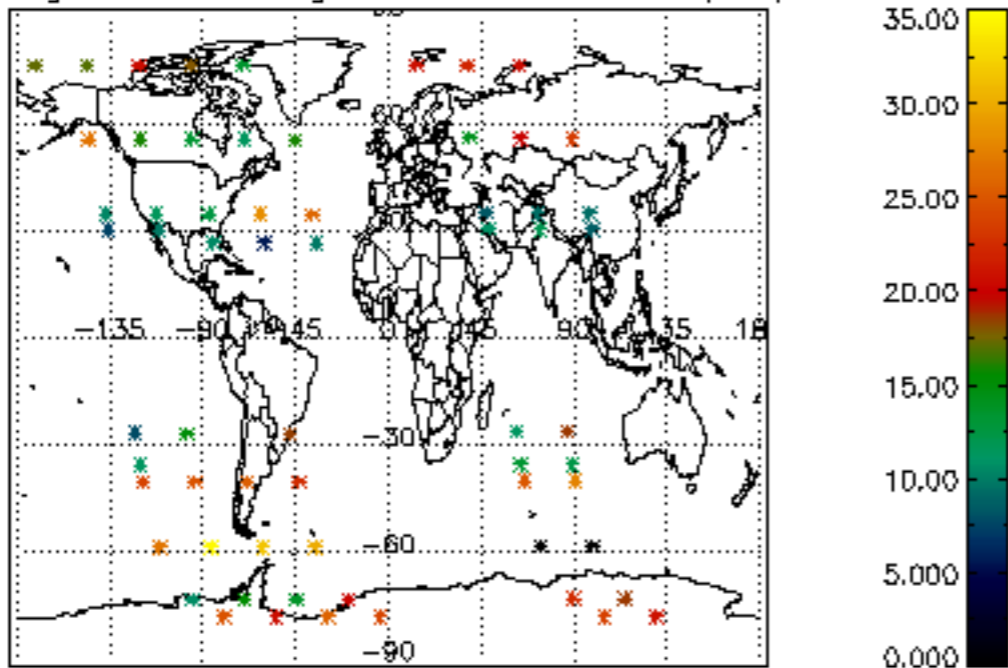
Percentage of cosmic ray hits per profile



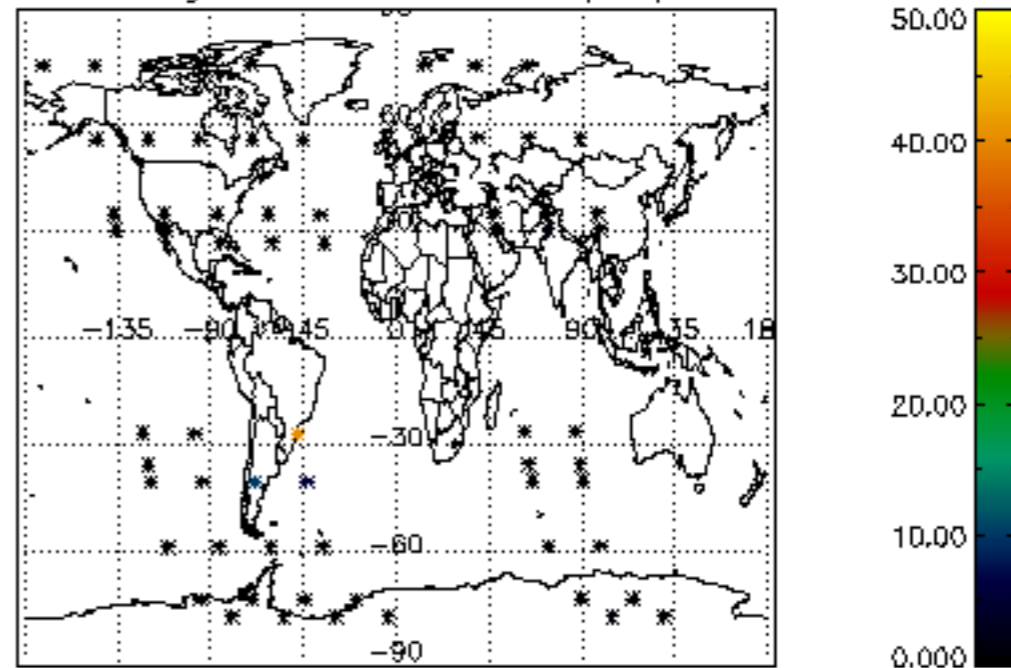
Percentage of datation errors per profile



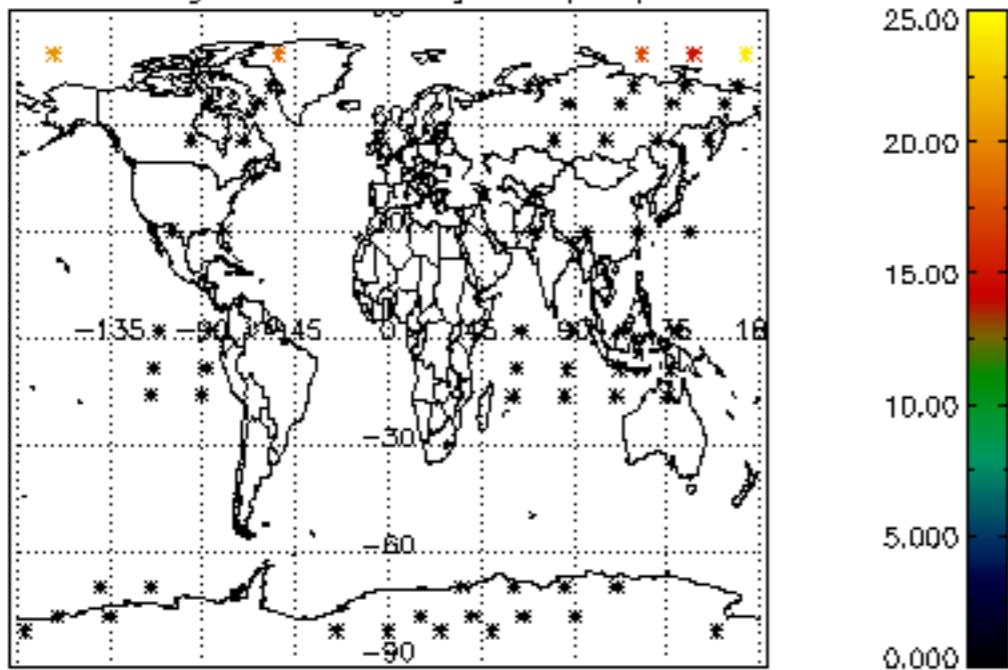
Percentage of star falling outside central band per profile



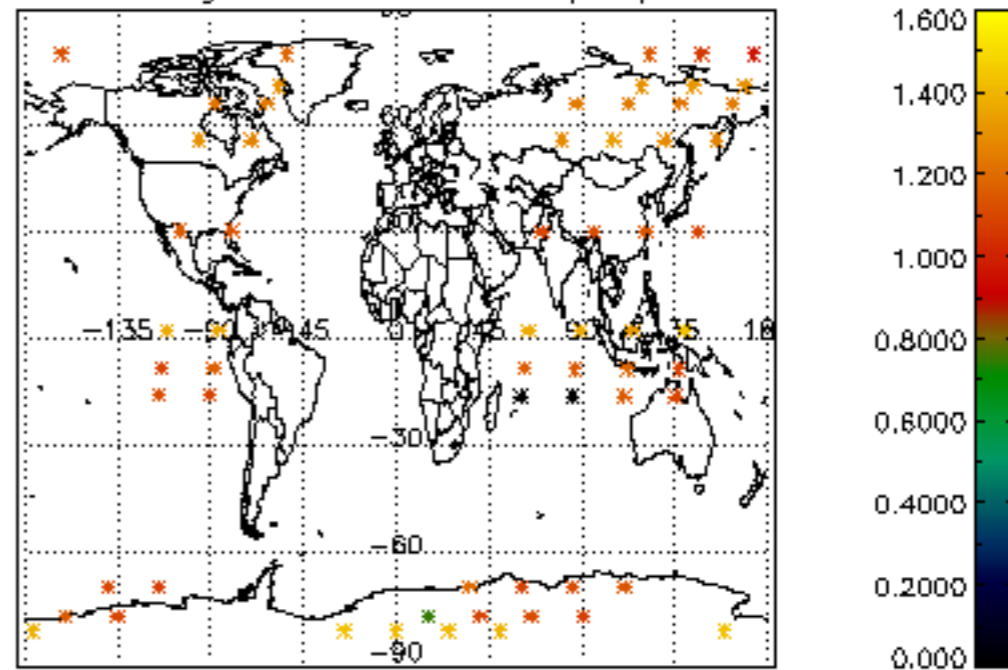
Percentage of saturation errors per profile



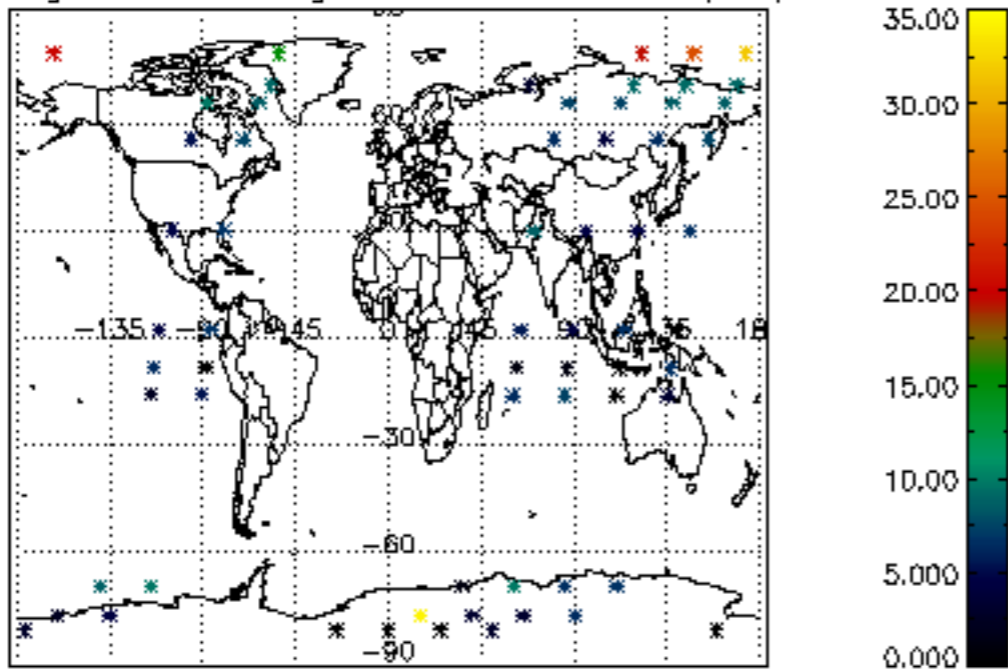
Percentage of cosmic ray hits per profile



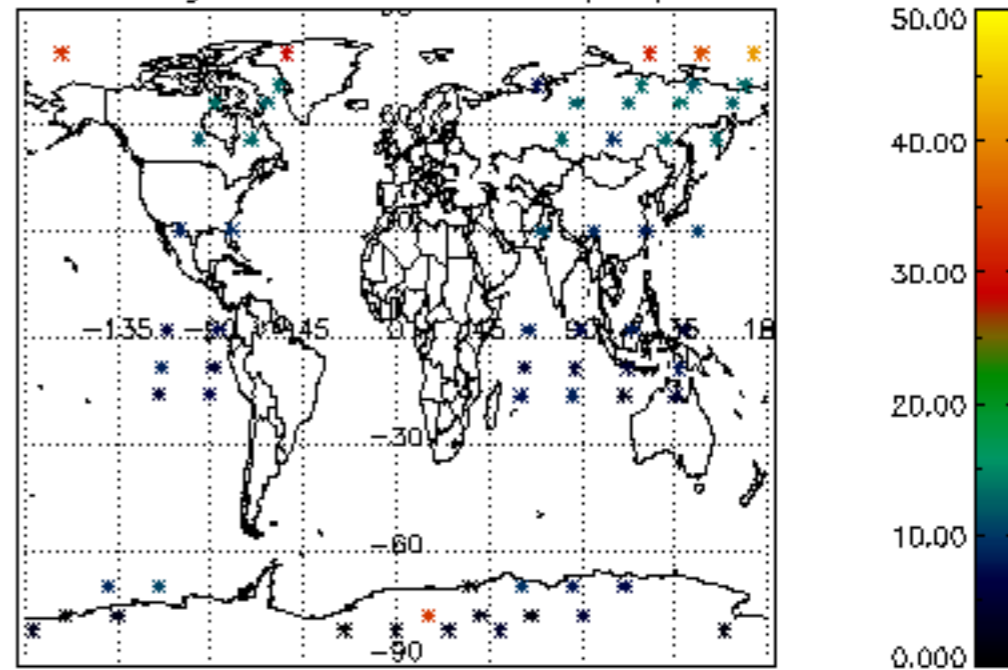
Percentage of datation errors per profile



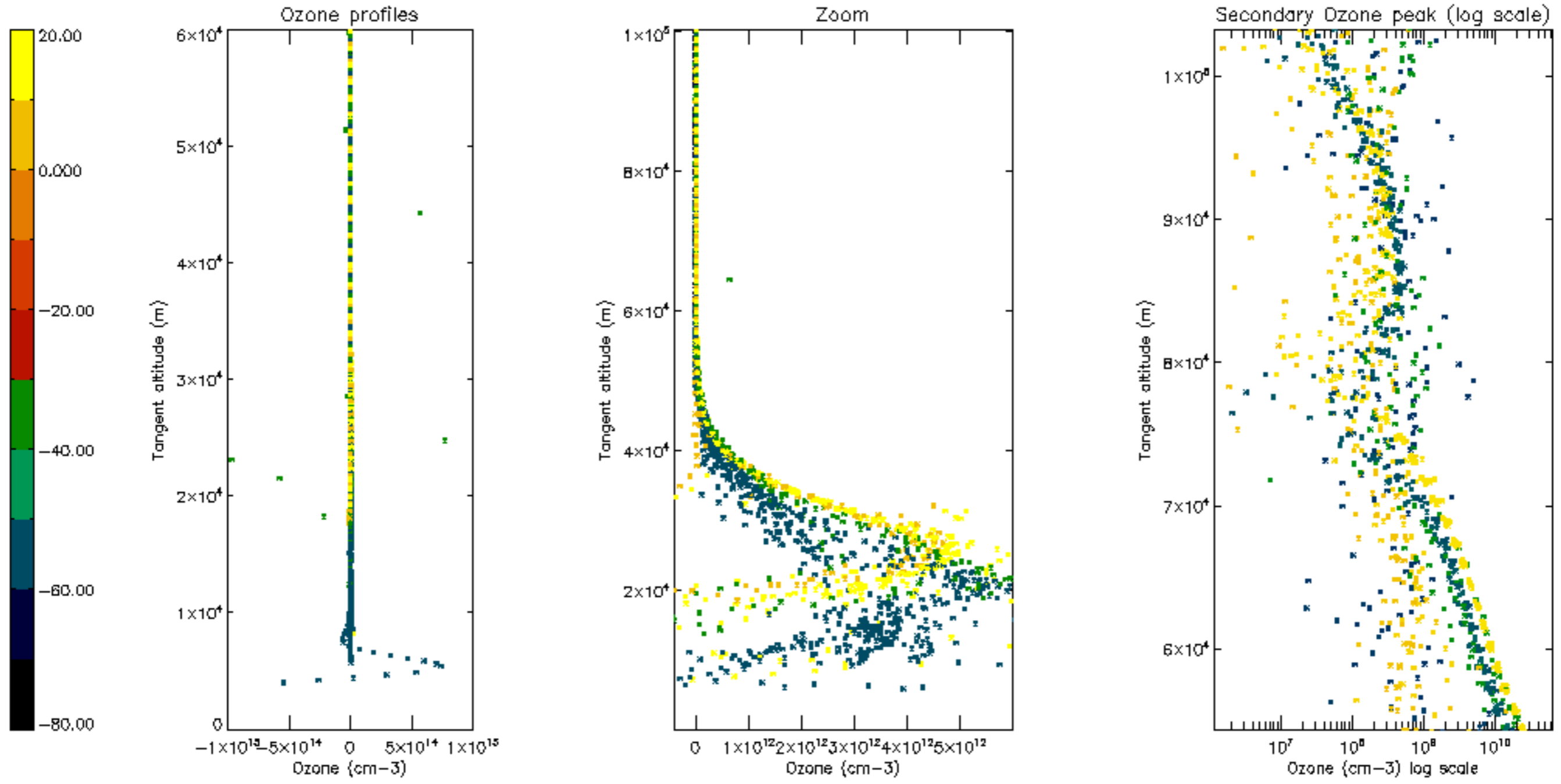
Percentage of star falling outside central band per profile

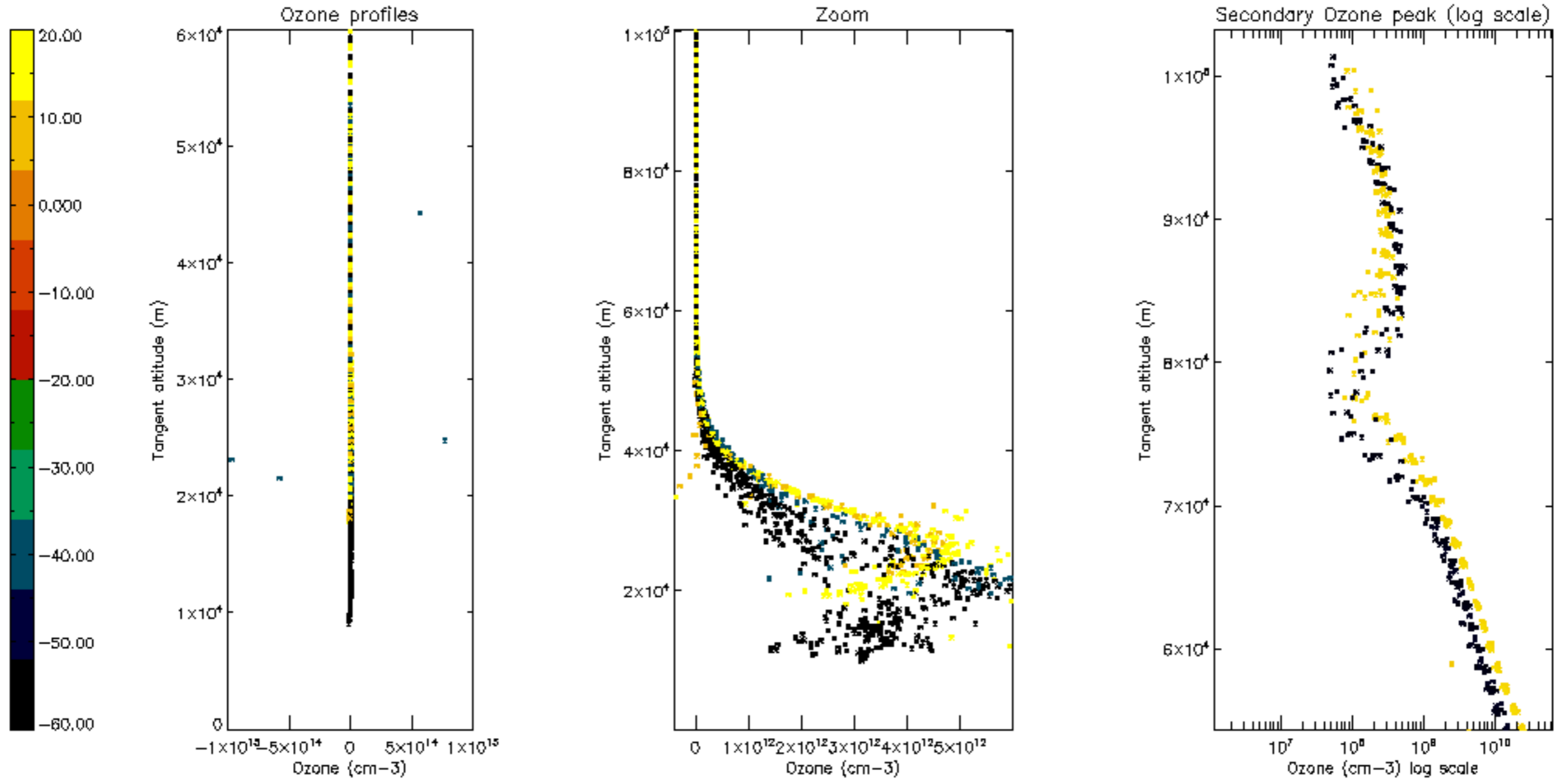


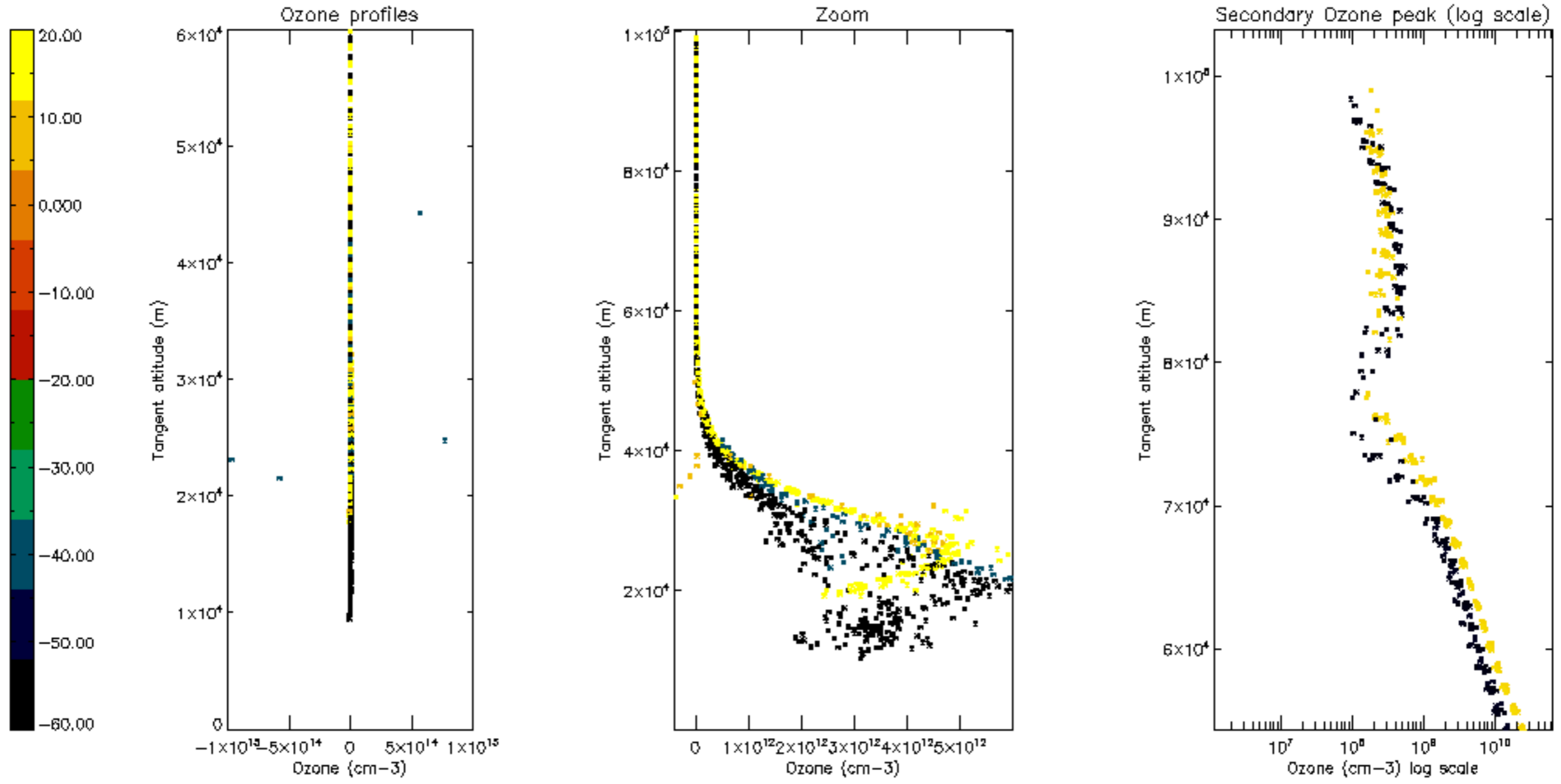
Percentage of saturation errors per profile

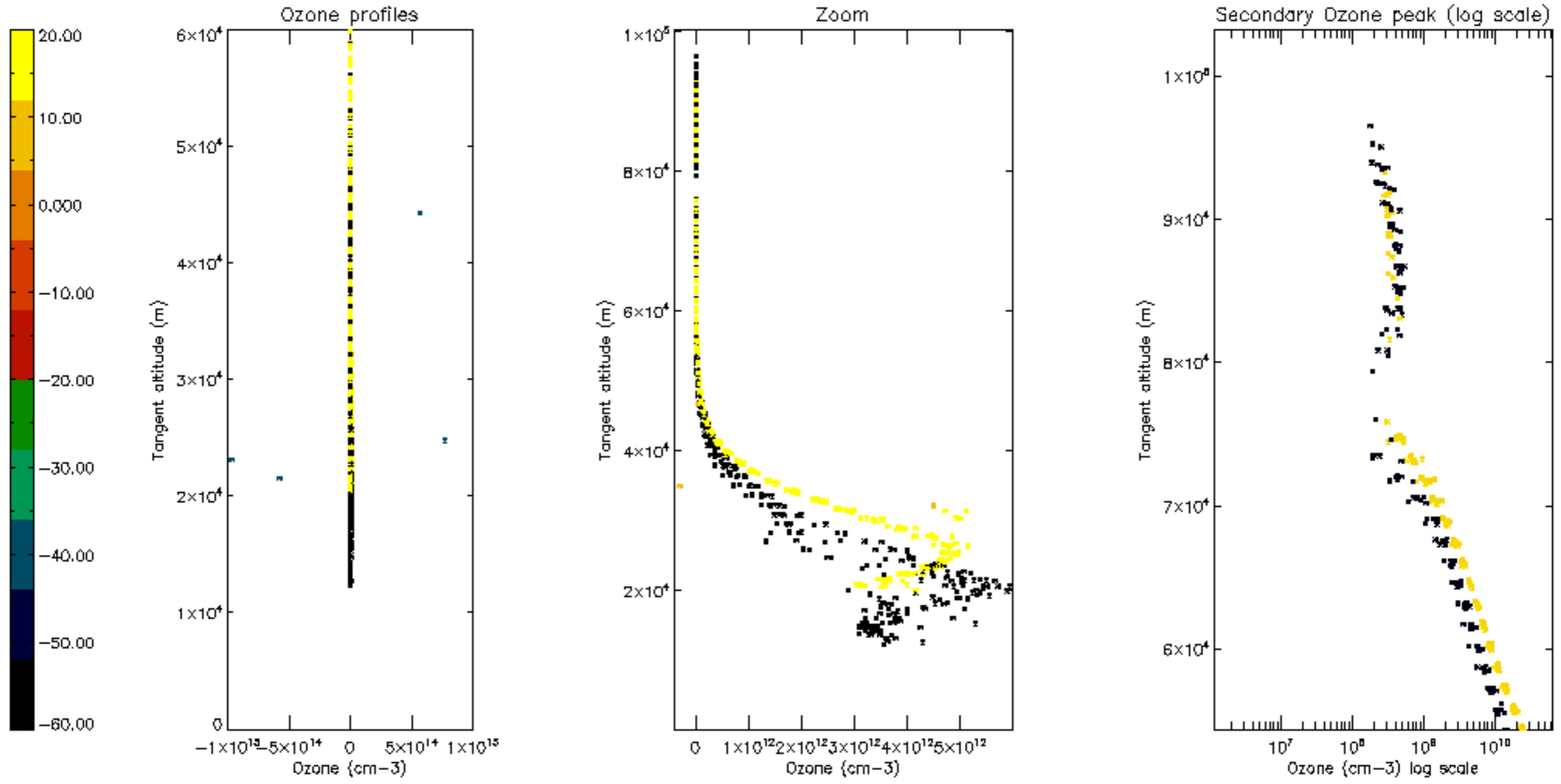


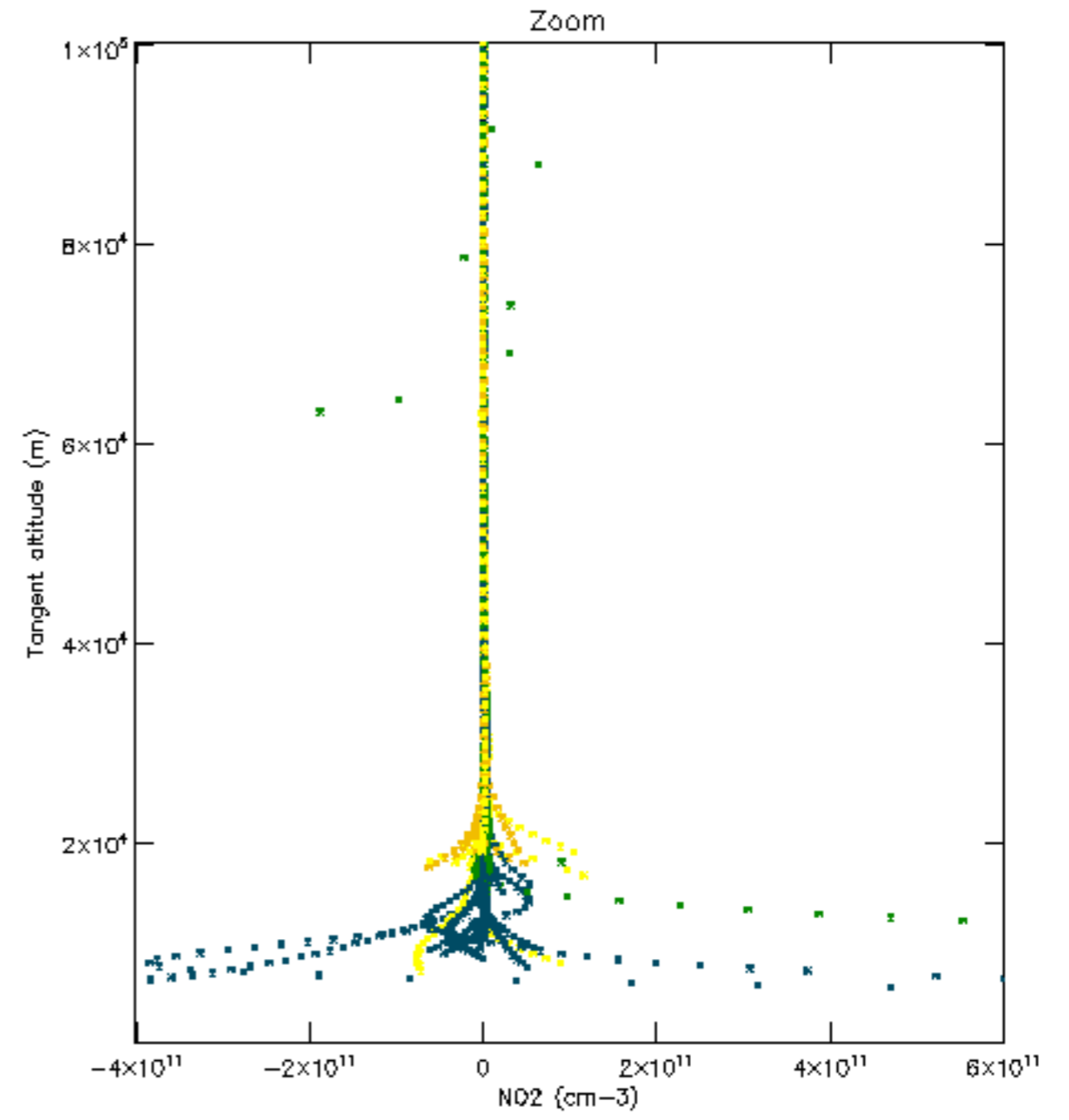
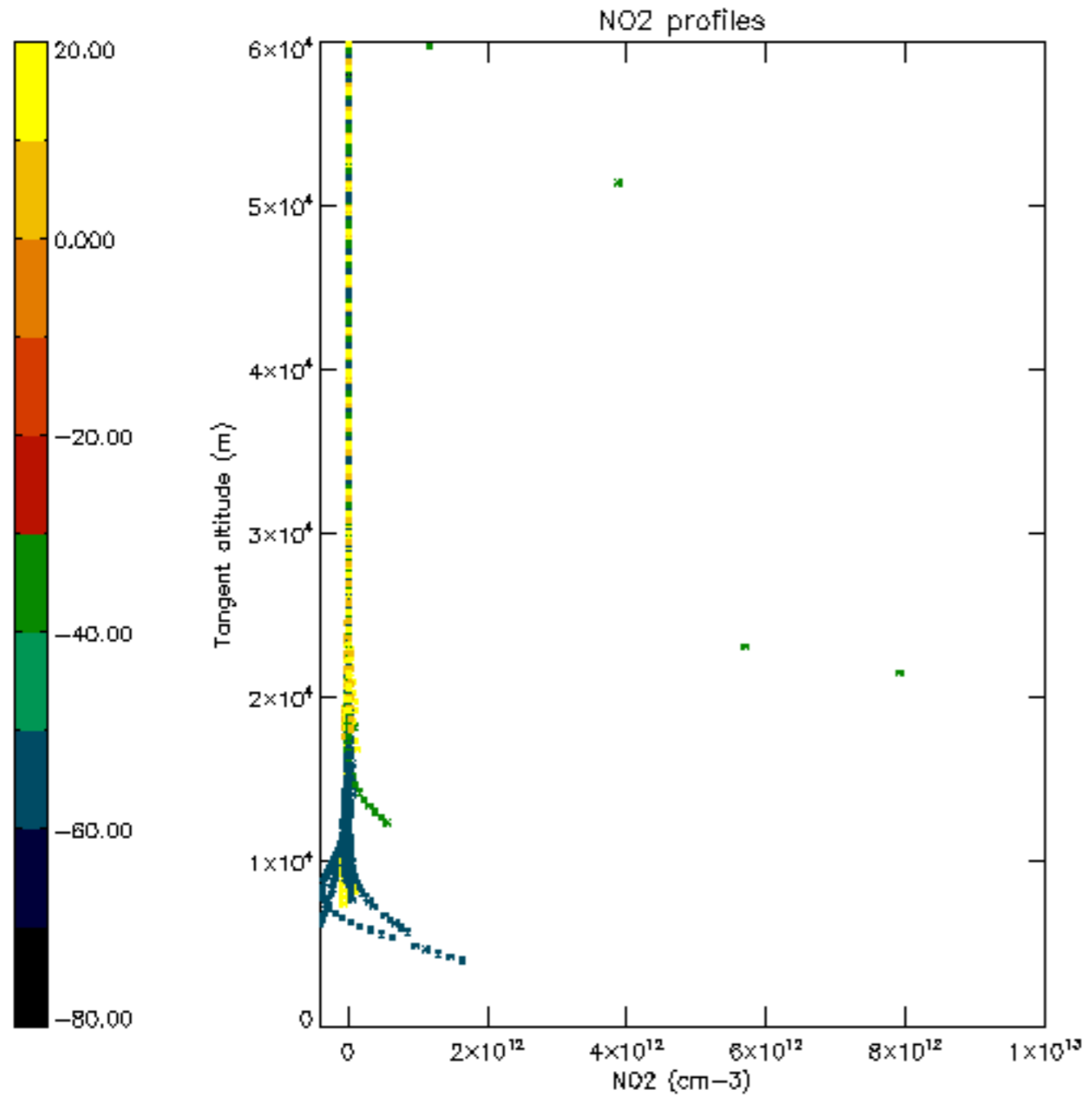


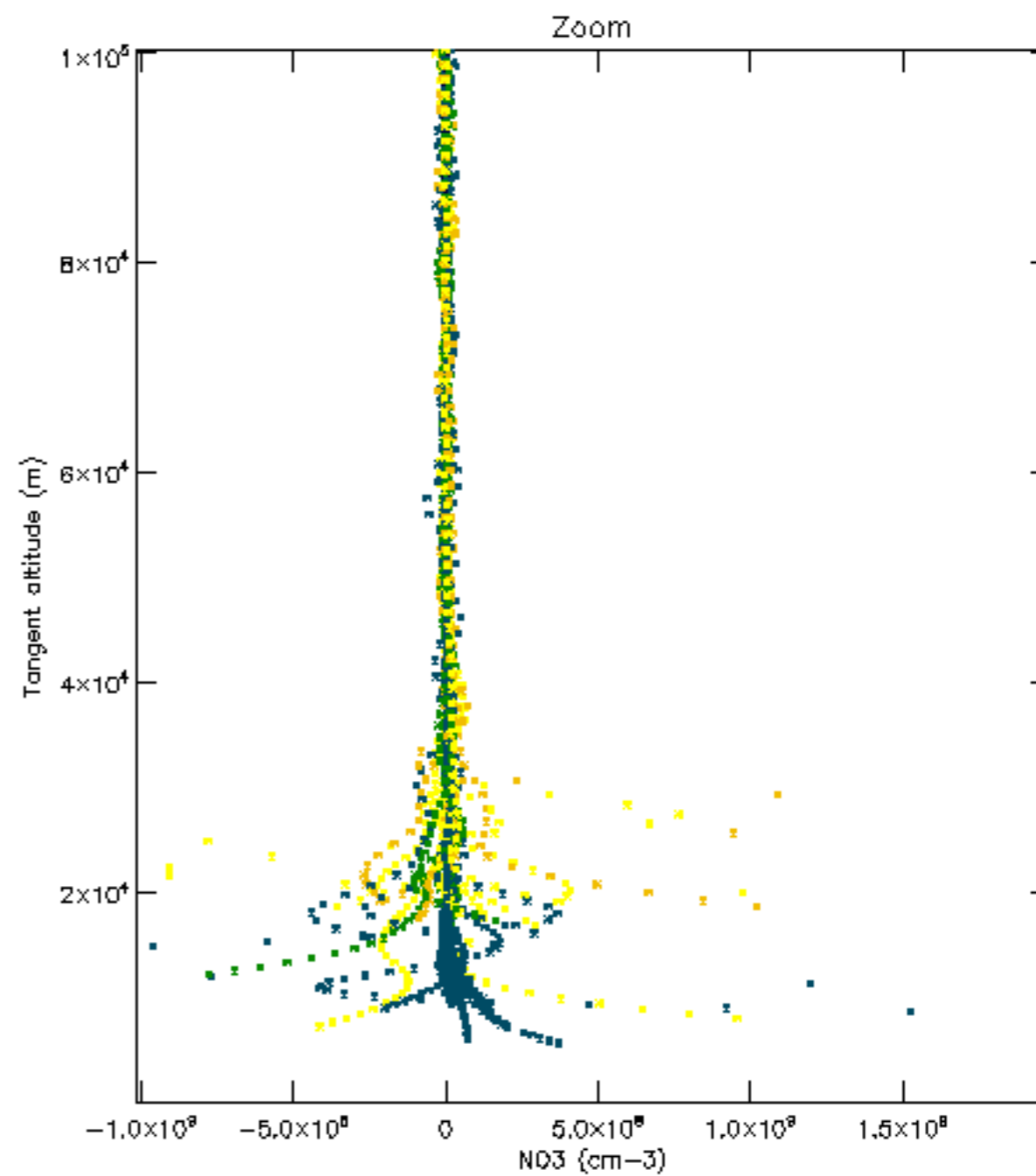
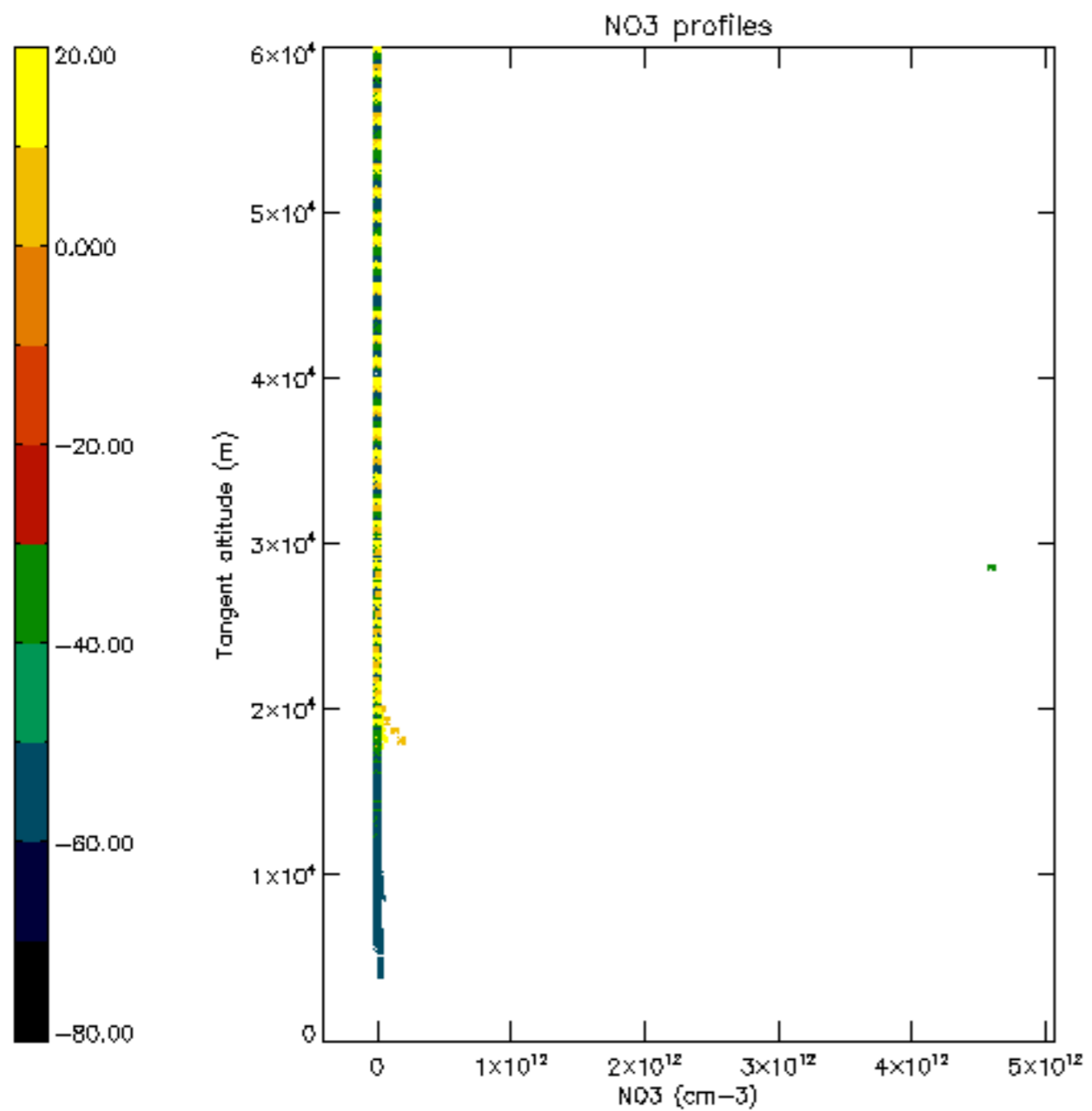


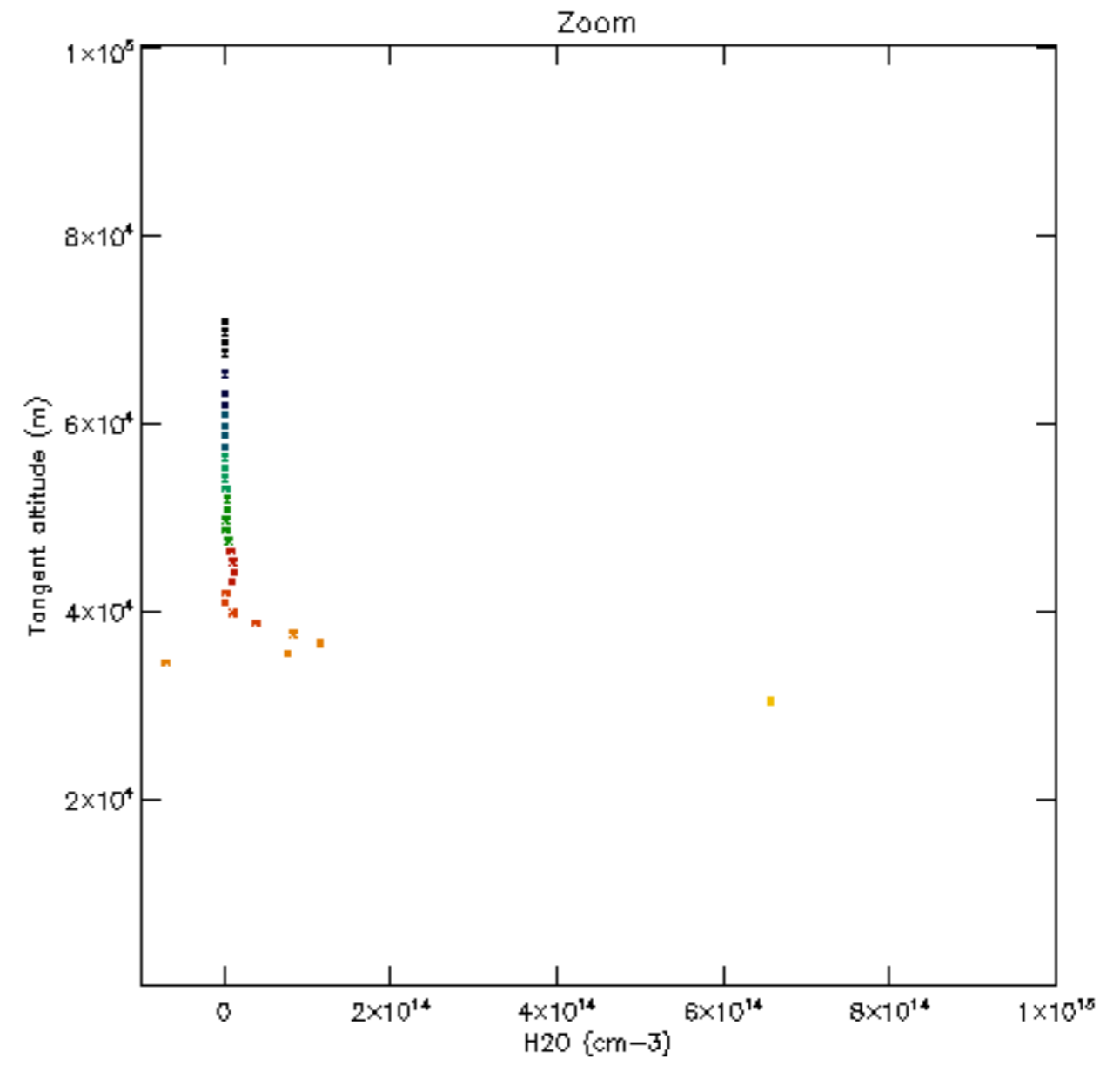
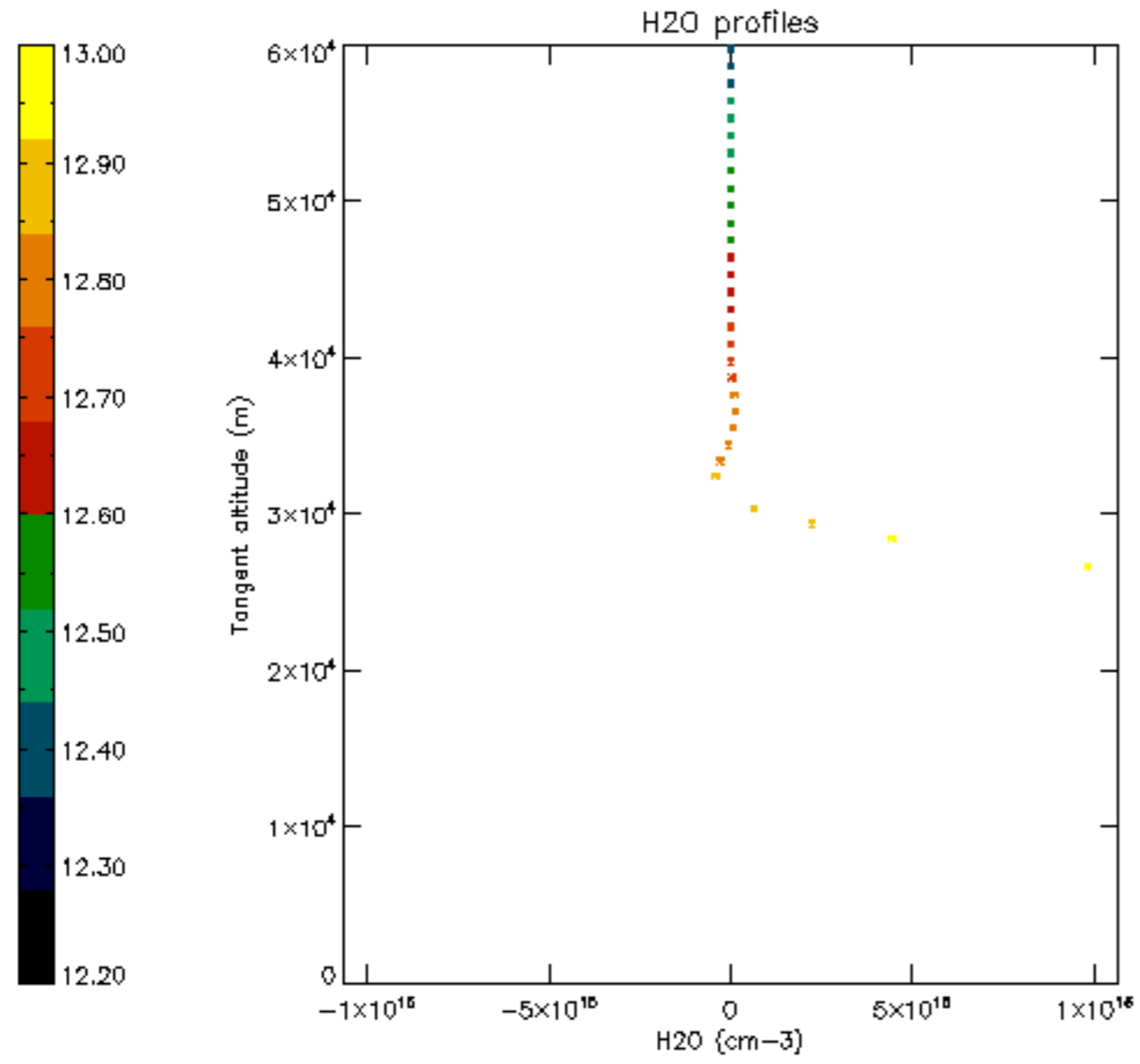


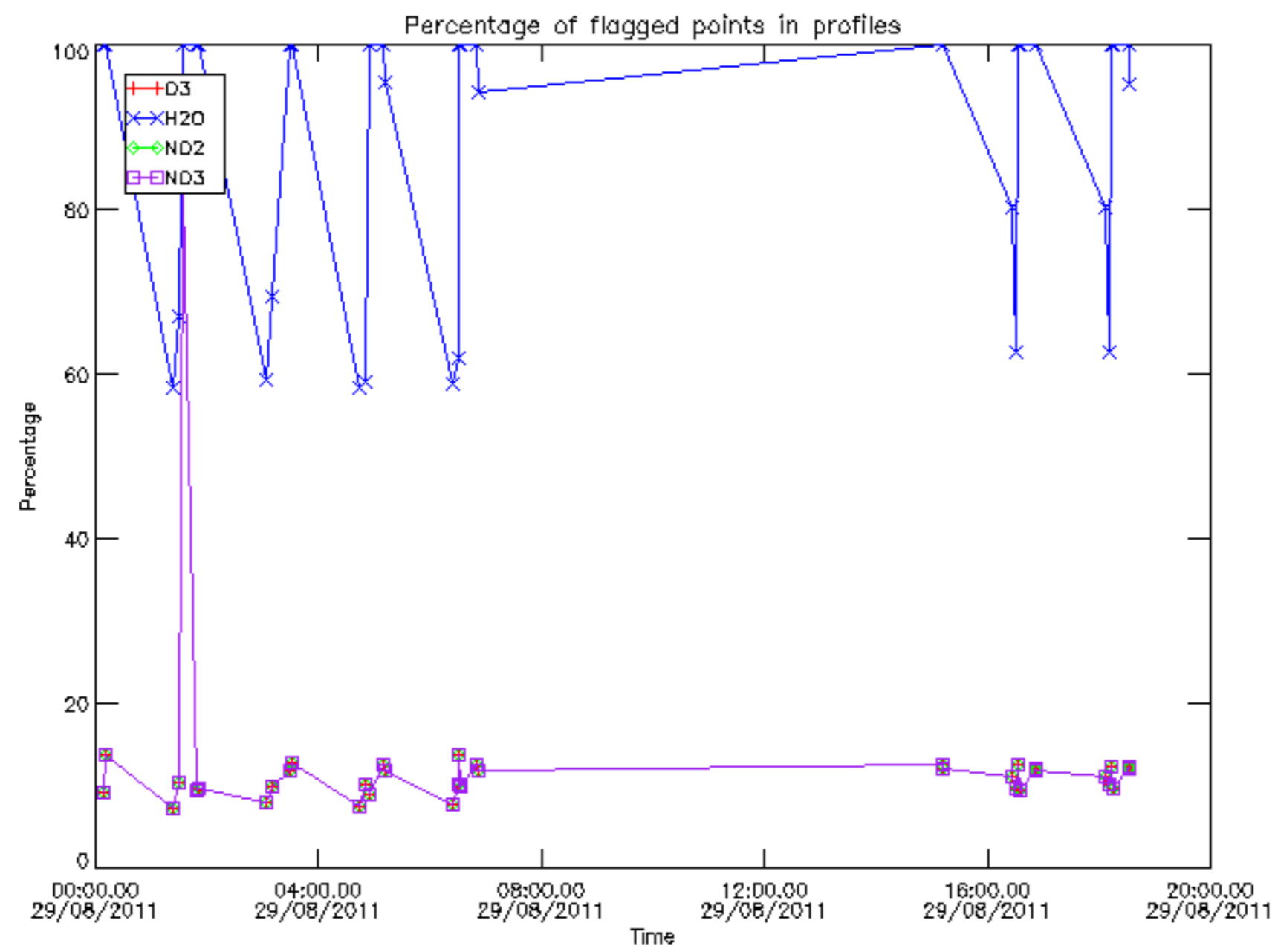






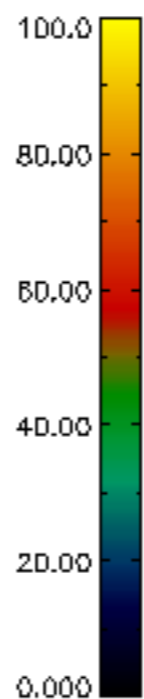
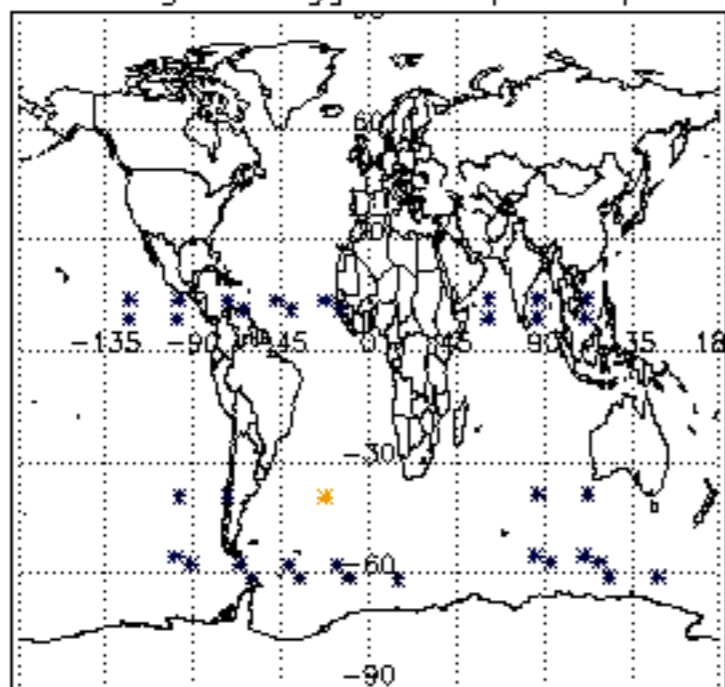




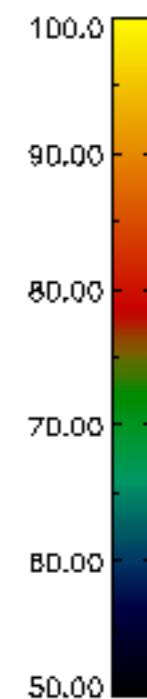
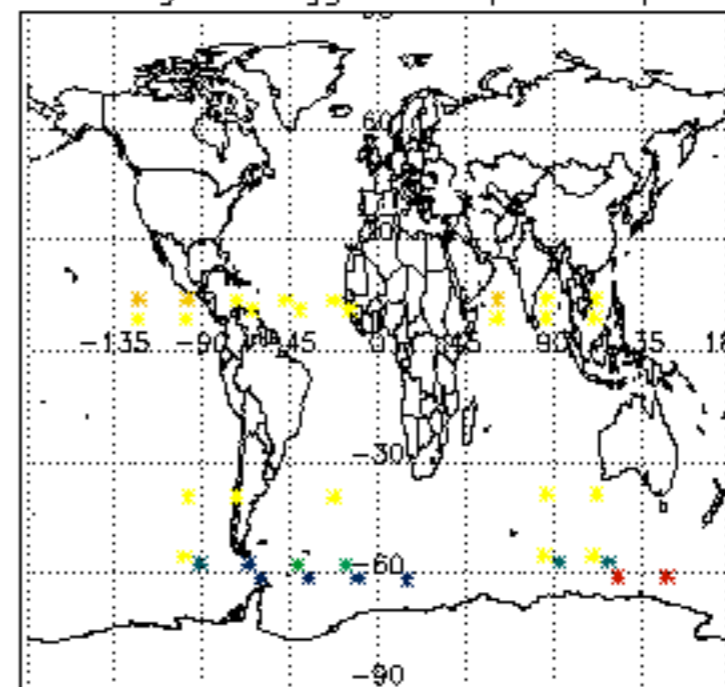




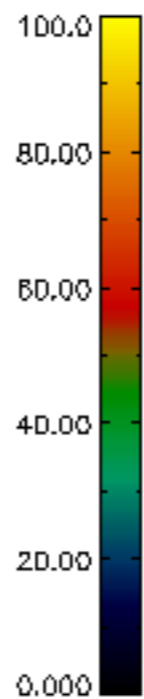
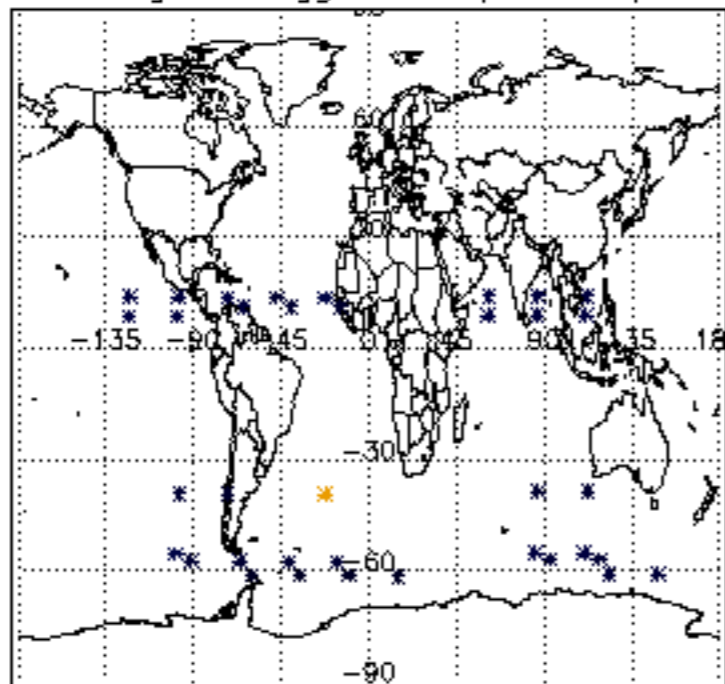
Percentage of flagged data per D3 profile



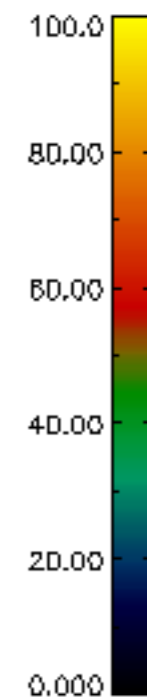
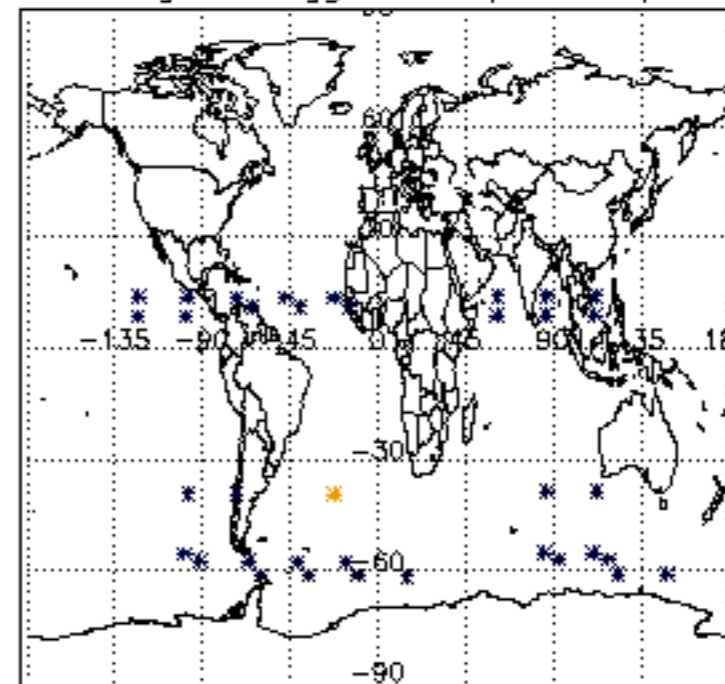
Percentage of flagged data per H2O profile

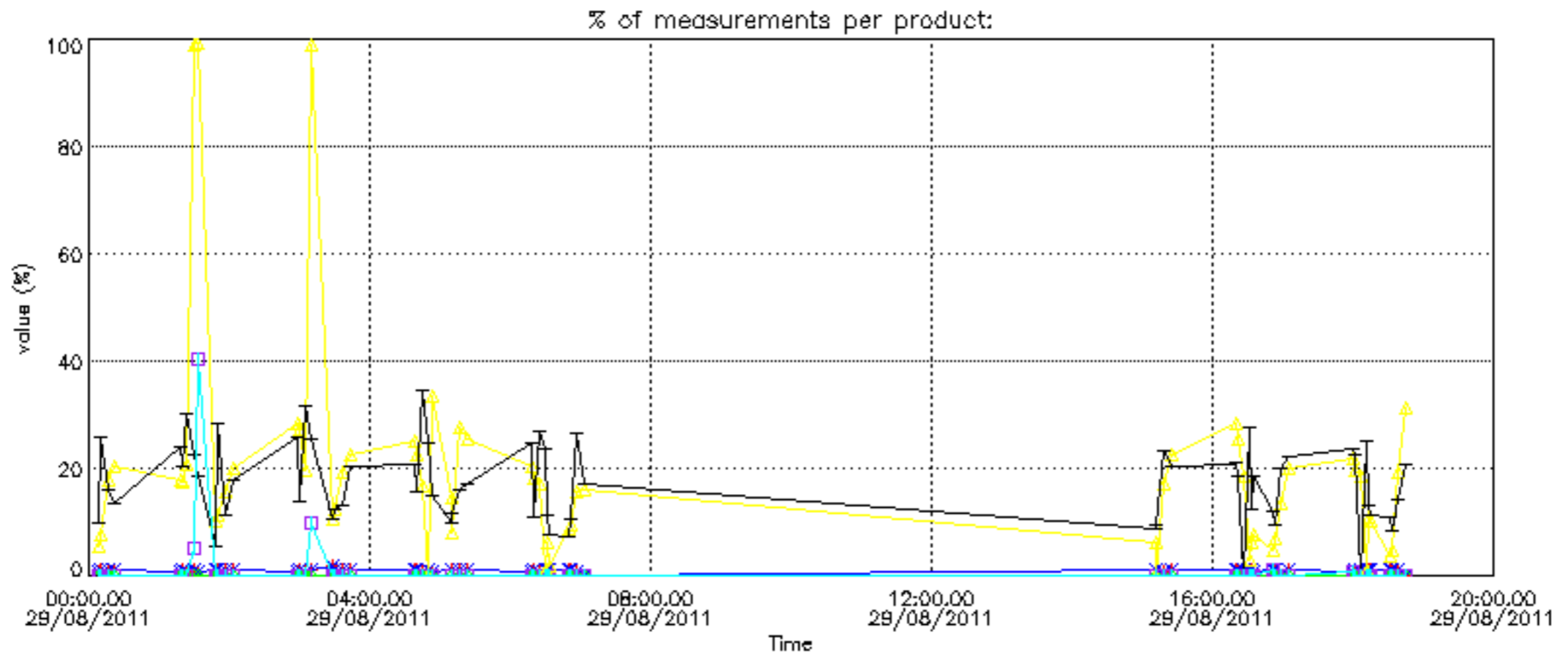


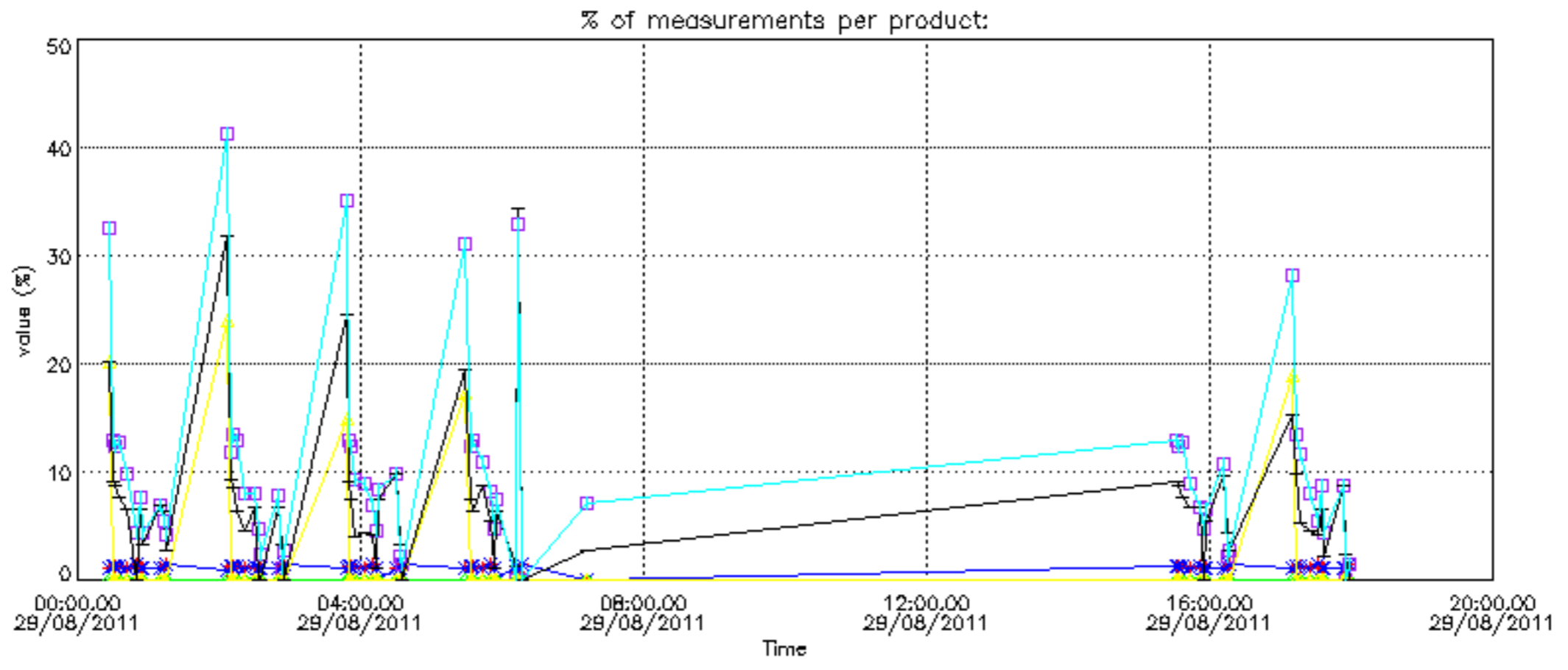
Percentage of flagged data per NO2 profile



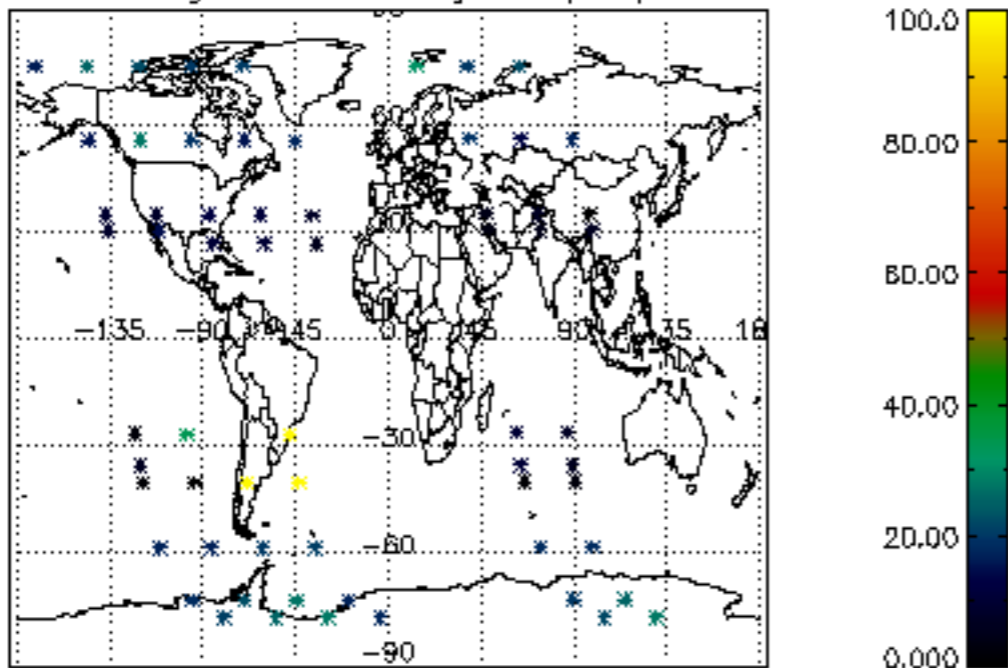
Percentage of flagged data per NO3 profile



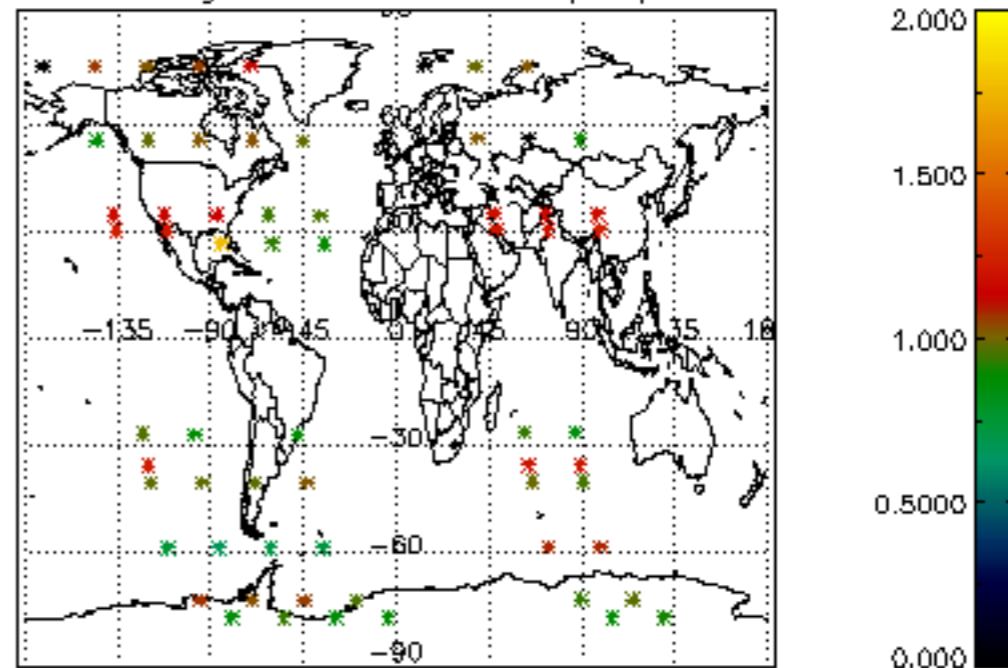




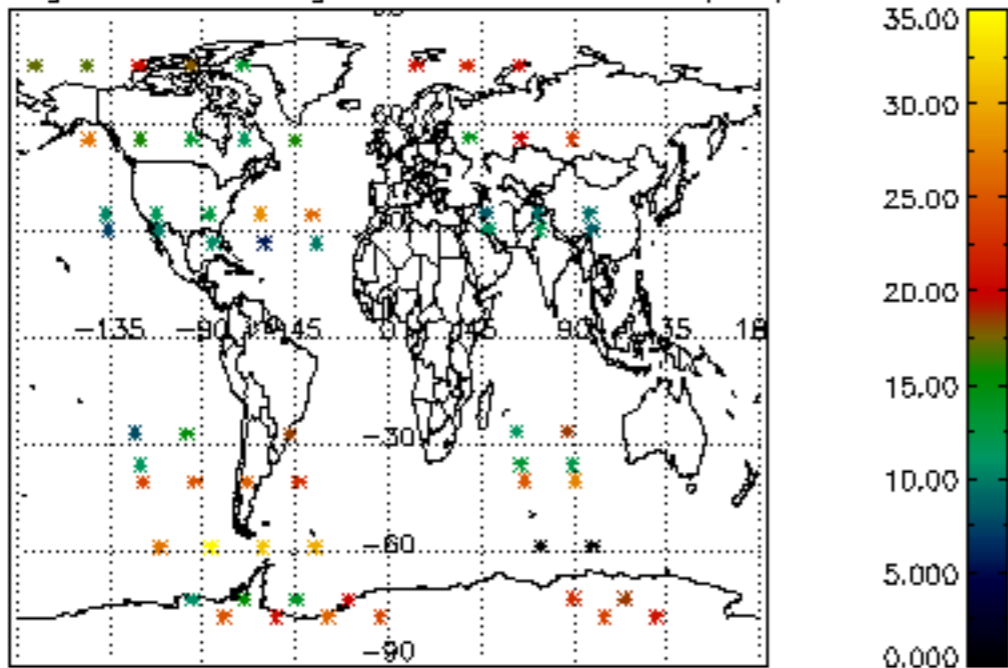
Percentage of cosmic ray hits per profile



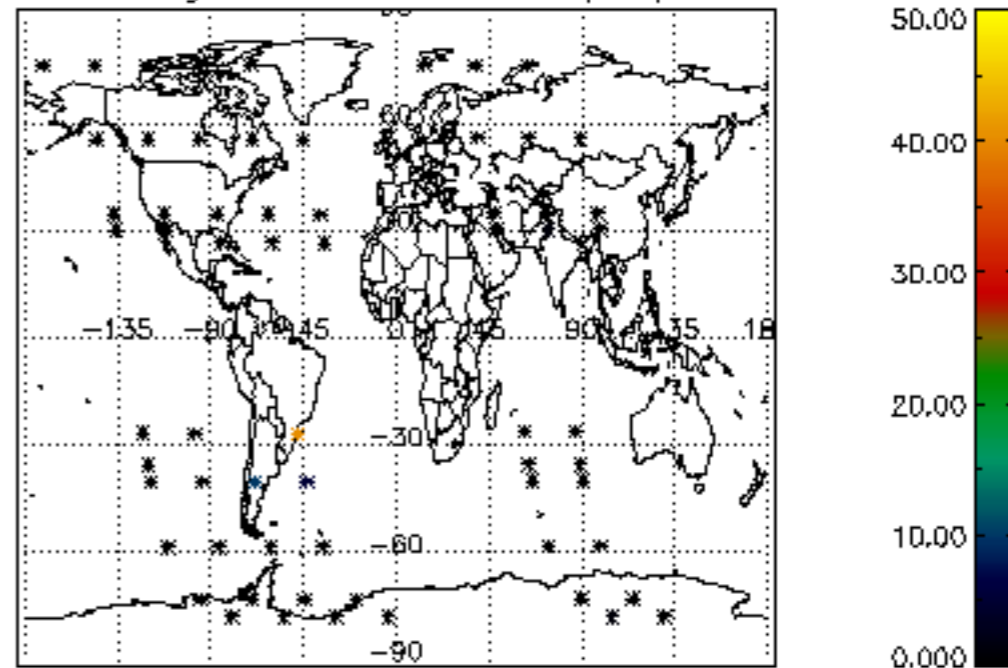
Percentage of datation errors per profile



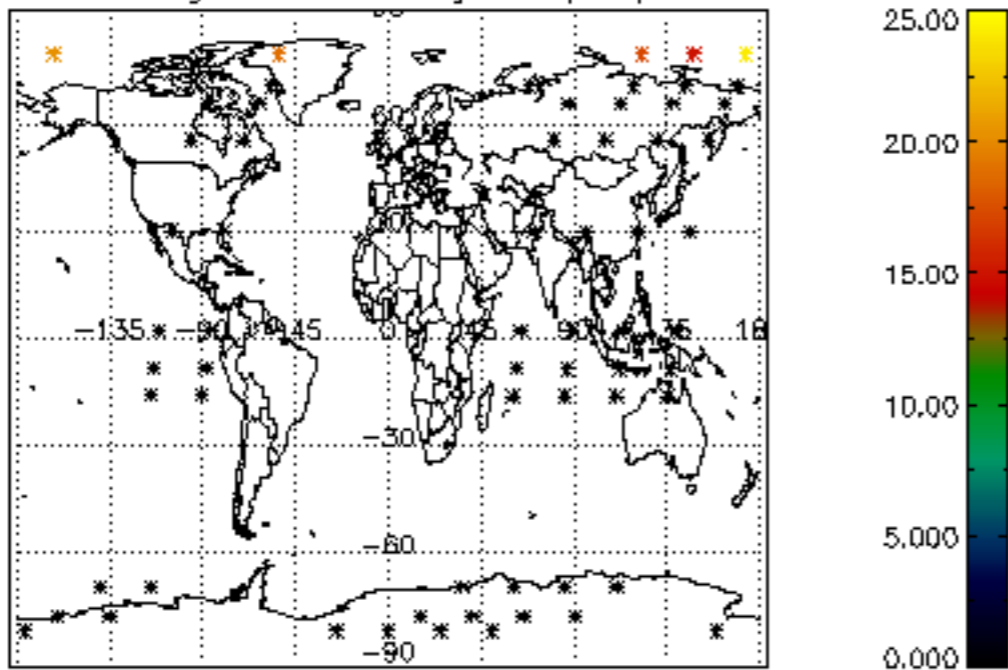
Percentage of star falling outside central band per profile



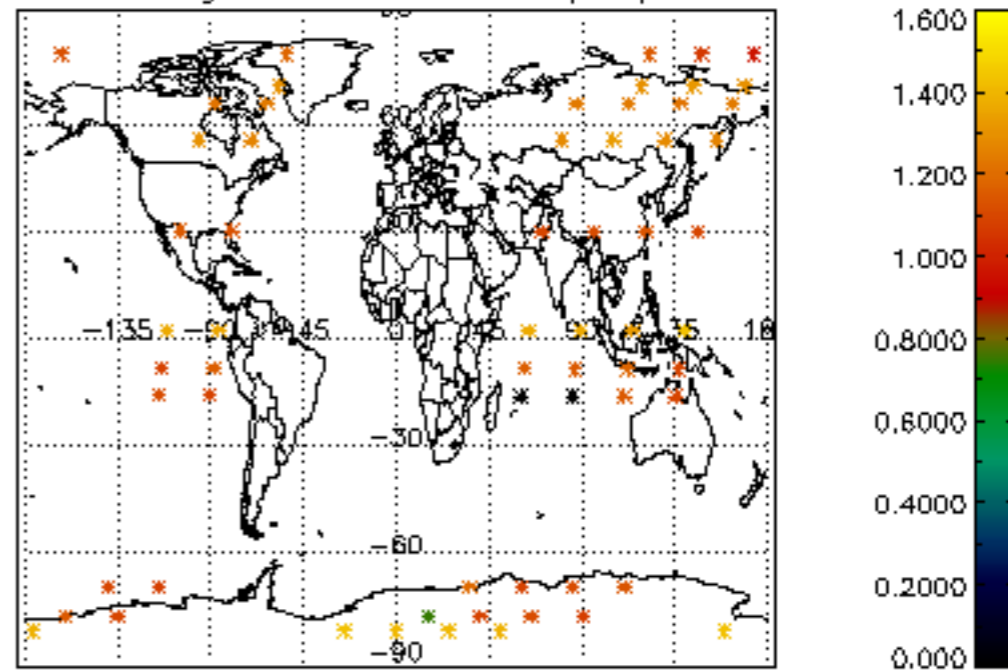
Percentage of saturation errors per profile



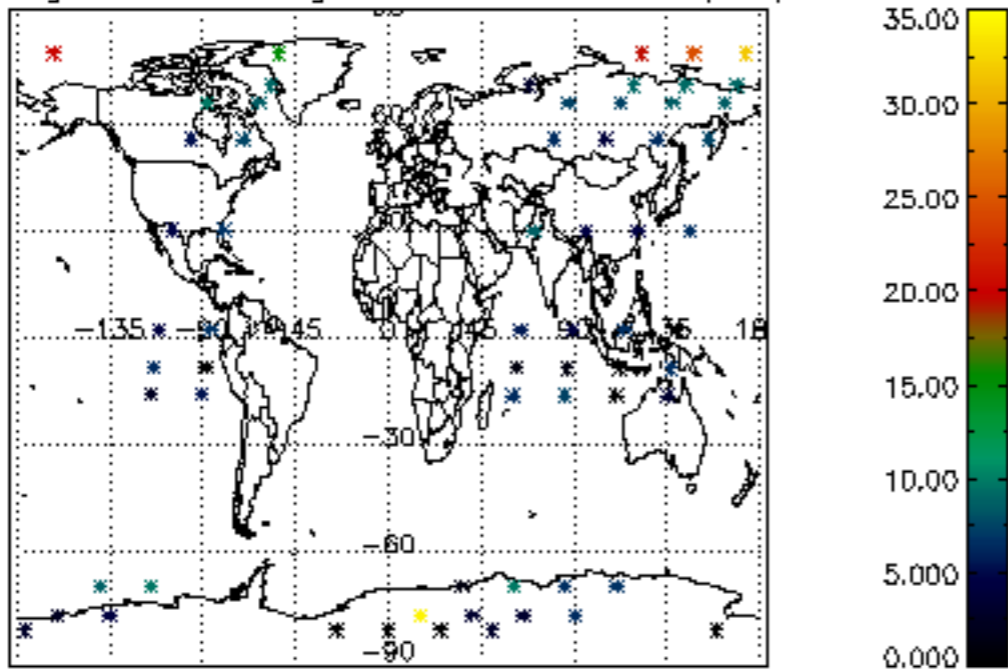
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

