

# GOMOS Level 2 Daily Report

## SUMMARY

### [1. General Info](#)

### [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](#)





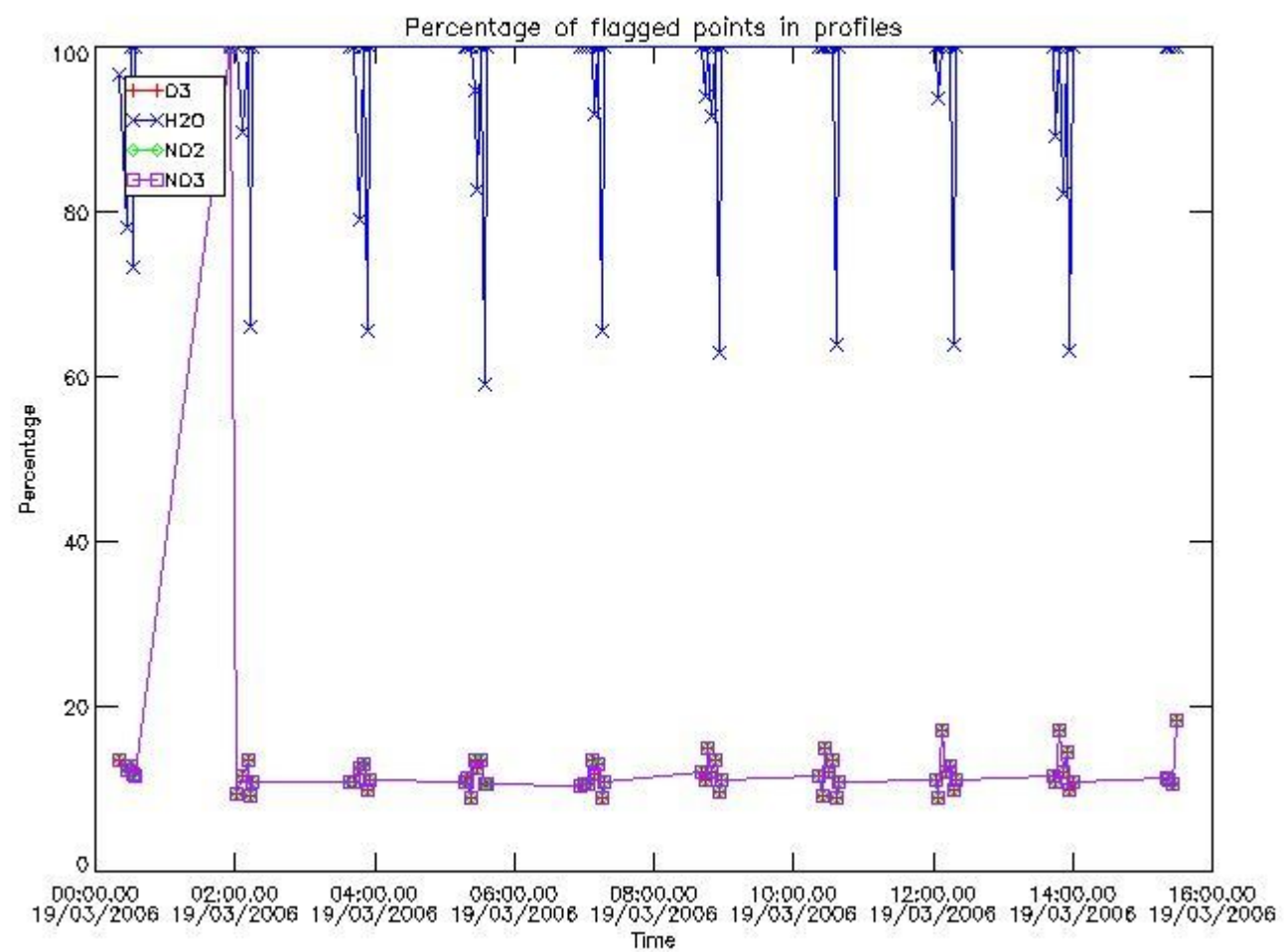


161	GOM_NL__2PRFIN20060319_132931_000000542046_00081_21177_8390.N1	19-MAR-2006 13:29:31	Twilight	53.500	11	53Alp Aql	0.76500	8000.0	107	21177	No
162	GOM_NL__2PRFIN20060319_134230_000000442046_00081_21177_8391.N1	19-MAR-2006 13:42:30	Dark	44.000	103	38Zet Sgr	2.6000	9700.0	88	21177	No
163	GOM_NL__2PRFIN20060319_134536_000000472046_00081_21177_8392.N1	19-MAR-2006 13:45:36	Dark	46.500	38	20Eps Sgr	1.8360	11000.	93	21177	No
164	GOM_NL__2PRFIN20060319_134845_000000302046_00082_21178_8374.N1	19-MAR-2006 13:48:45	Dark	30.000	178	lot1Sco	3.0220	6550.0	60	21178	No
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167	GOM_NL__2PRFIN20060319_135743_000000562046_00082_21178_8377.N1	19-MAR-2006 13:57:43	Dark	56.000	4	Alp1Cen	-0.010000	5800.0	112	21178	No
168	GOM_NL__2PRFIN20060319_135951_000000472046_00082_21178_8378.N1	19-MAR-2006 13:59:51	Dark	47.000	78	Alp Lup	2.3040	28000.	94	21178	No
169	GOM_NL__2PRFIN20060319_140200_000000492046_00082_21178_8379.N1	19-MAR-2006 14:02:00	Straylight	49.000	26	Gam Cru	1.6240	2900.0	98	21178	No
170	GOM_NL__2PRFIN20060319_140347_000000402046_00082_21178_8380.N1	19-MAR-2006 14:03:47	Straylight	39.500	64	Gam Cen	2.2000	10600.	79	21178	No
171	GOM_NL__2PRFIN20060319_141215_000000482046_00082_21178_8381.N1	19-MAR-2006 14:12:15	Straylight	47.500	171	2Eps Crv	3.0010	4250.0	95	21178	No
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173	GOM_NL__2PRFIN20060319_143256_000000382046_00082_21178_8383.N1	19-MAR-2006 14:32:56	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	21178	No
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178	GOM_NL__2PRFIN20060319_145811_000000372046_00082_21178_8388.N1	19-MAR-2006 14:58:11	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	21178	No
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180	GOM_NL__2PRFIN20060319_150132_000000382046_00082_21178_8390.N1	19-MAR-2006 15:01:32	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	21178	No
181	GOM_NL__2PRFIN20060319_151007_000000552046_00082_21178_8391.N1	19-MAR-2006 15:10:07	Twilight	54.500	11	53Alp Aql	0.76500	8000.0	109	21178	No
182	GOM_NL__2PRFIN20060319_152037_000000452046_00082_21178_8392.N1	19-MAR-2006 15:20:37	Dark	45.000	155	41Pi Sgr	2.9000	6600.0	90	21178	No
183	GOM_NL__2PRFIN20060319_152242_000000462046_00082_21178_8393.N1	19-MAR-2006 15:22:42	Dark	46.000	57	34Sig Sgr	2.0660	26000.	92	21178	No
184	GOM_NL__2PRFIN20060319_152613_000000492046_00082_21178_8394.N1	19-MAR-2006 15:26:13	Dark	48.500	38	20Eps Sgr	1.8360	11000.	97	21178	No
185	GOM_NL__2PRFIN20060319_152922_000000282046_00083_21179_8375.N1	19-MAR-2006 15:29:22	Dark	27.500	178	lot1Sco	3.0220	6550.0	55	21179	No

### 3. Quality information per product

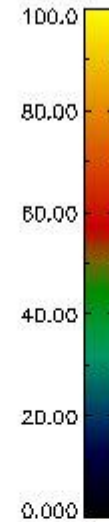
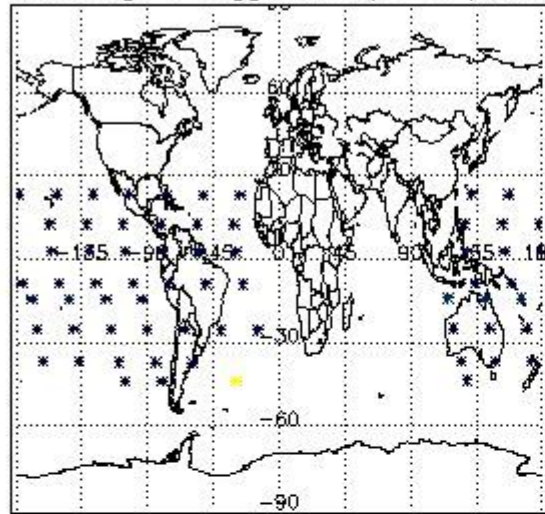
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

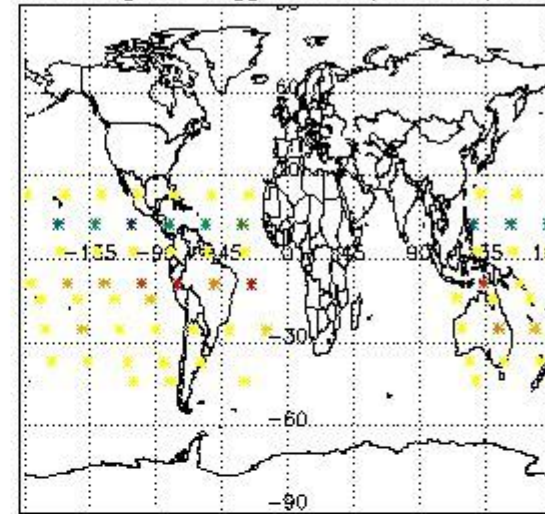


3.2 Plot quality information per product (world map)

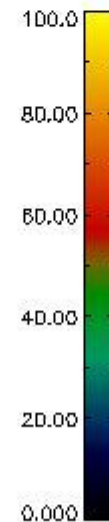
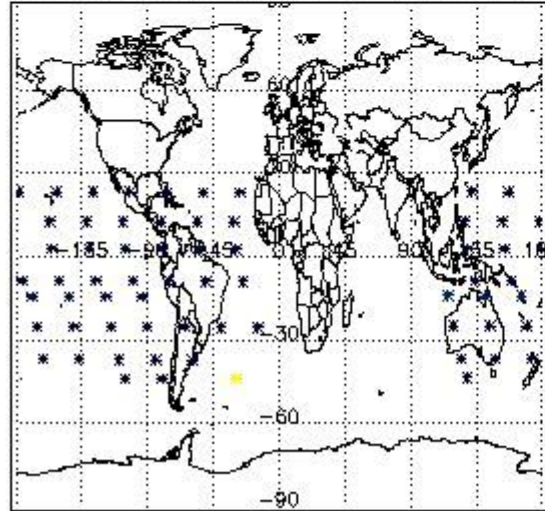
Percentage of flagged data per O3 profile



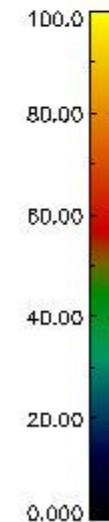
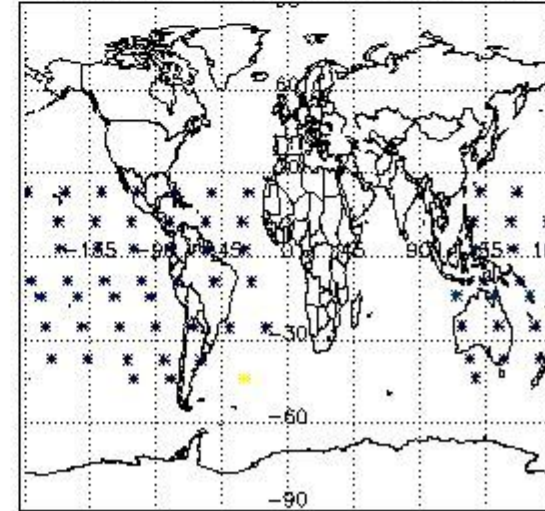
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

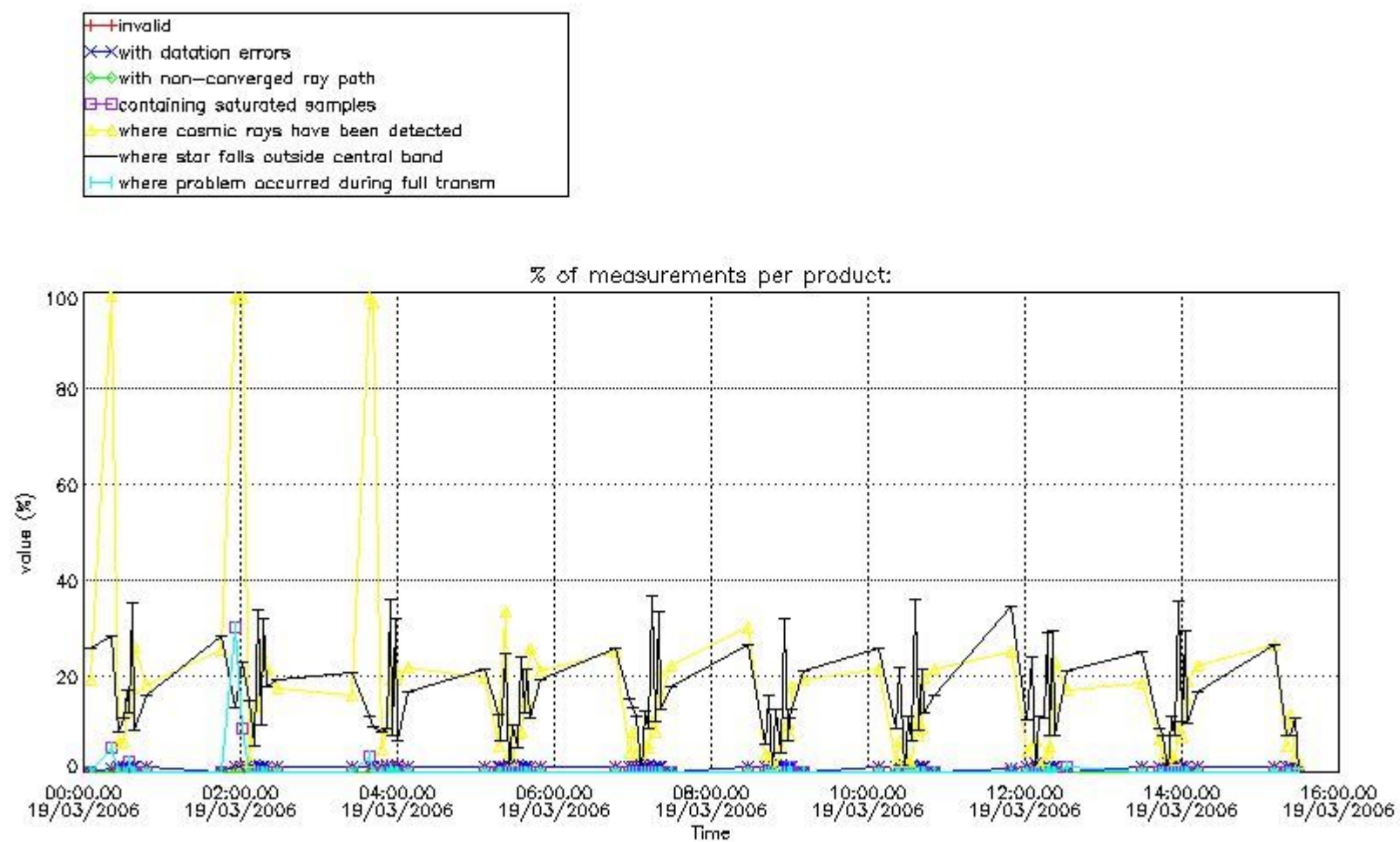


#### 4. Level 1 quality information per product

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.

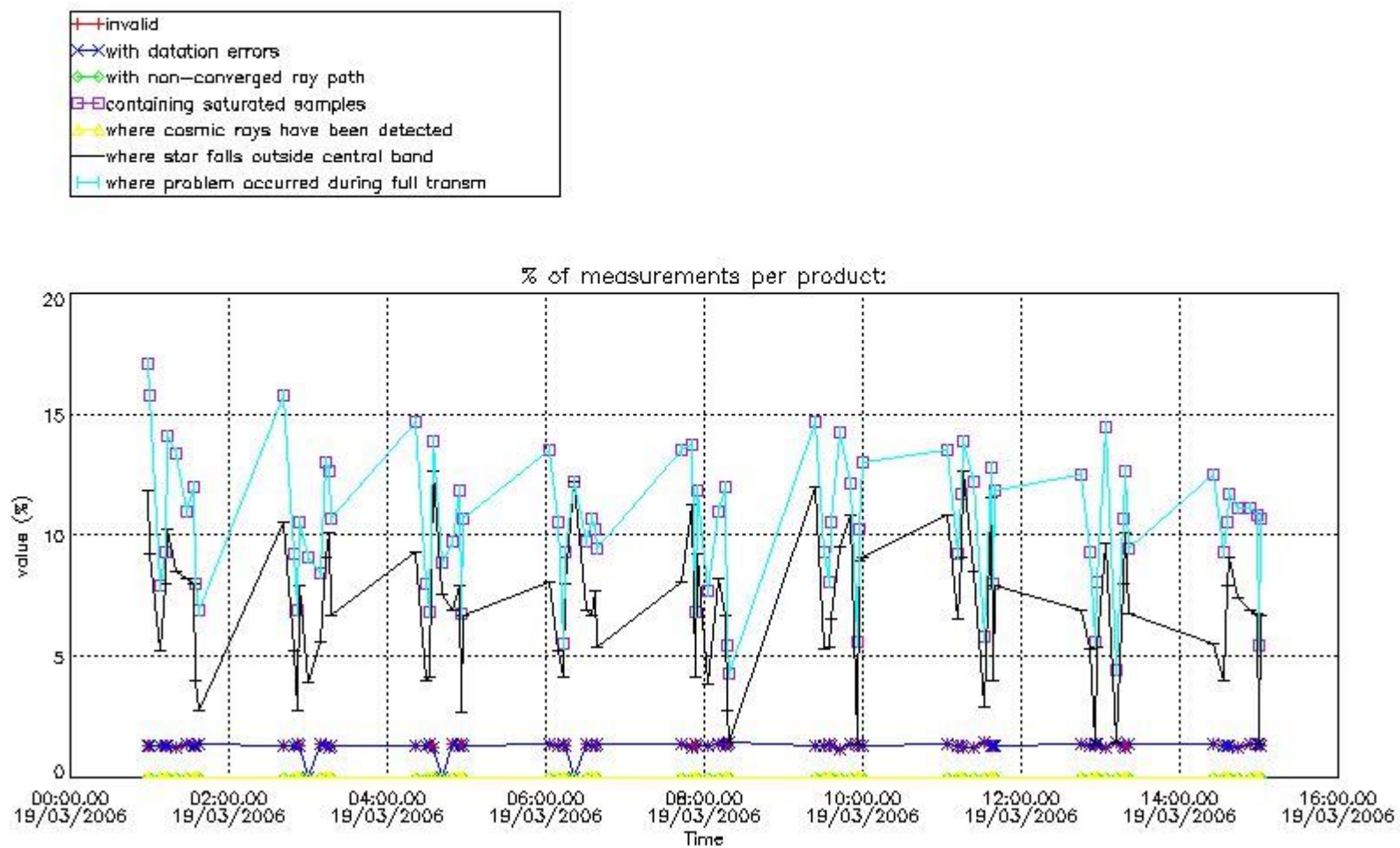
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

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



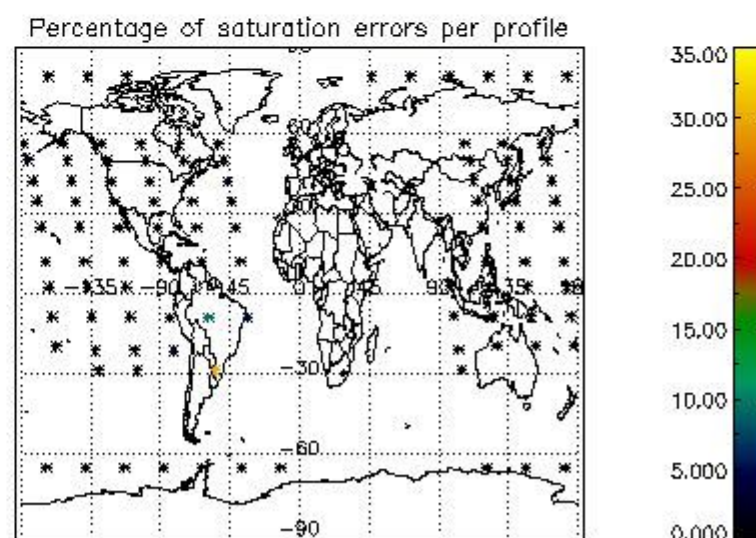
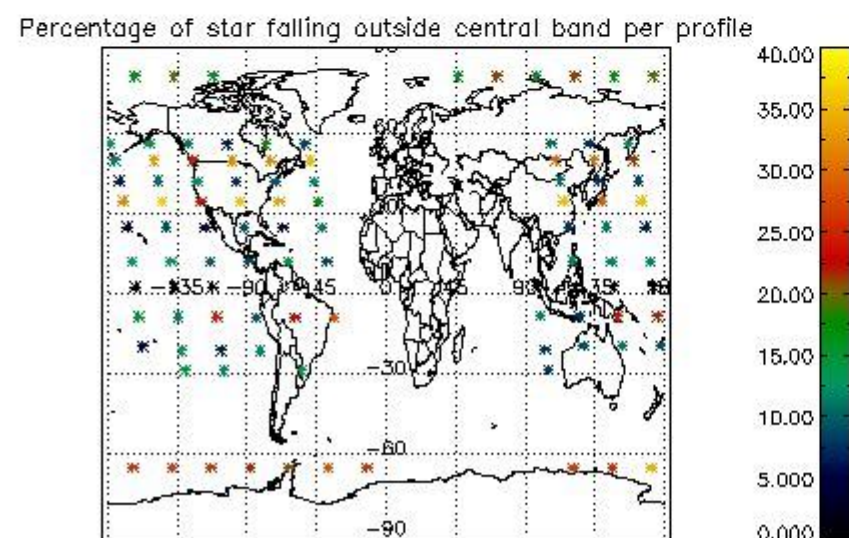
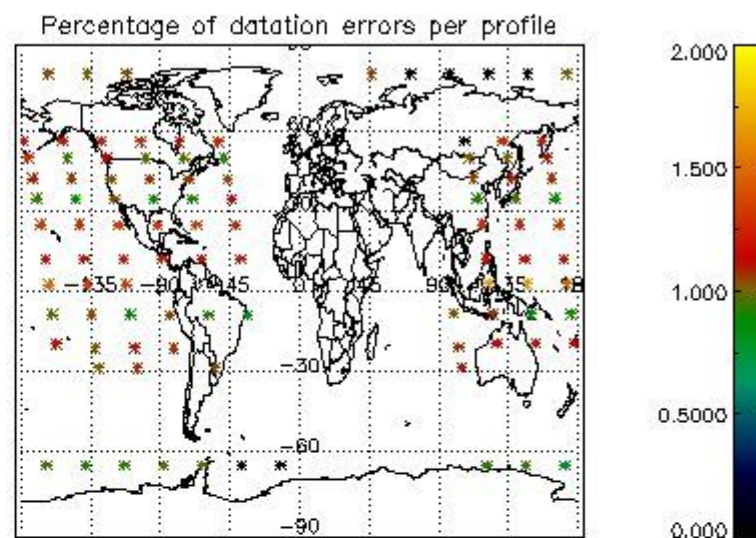
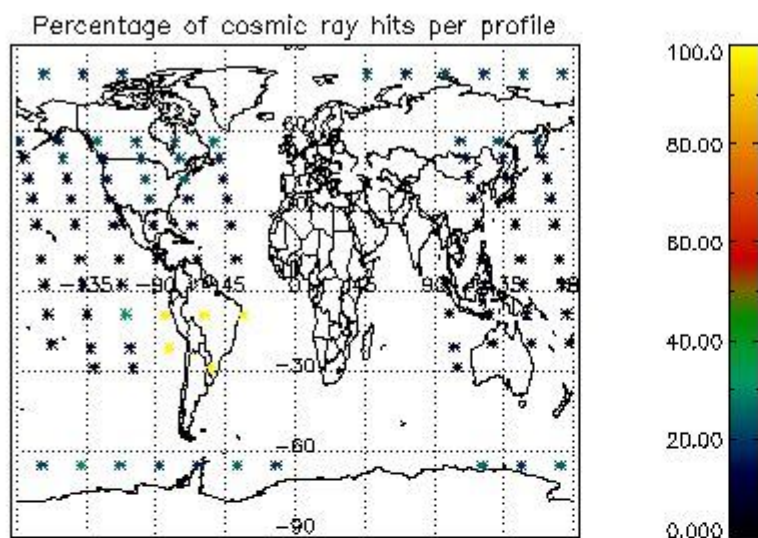
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes





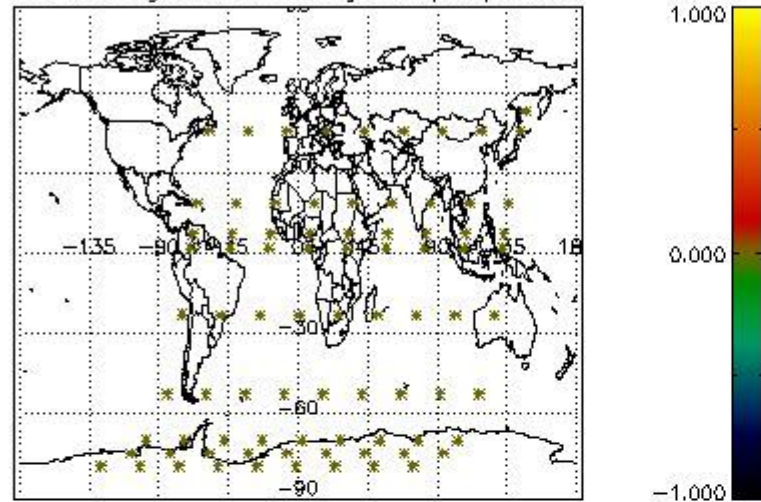
4.2 Plot quality information per product coming from level 1b processing (world map)

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

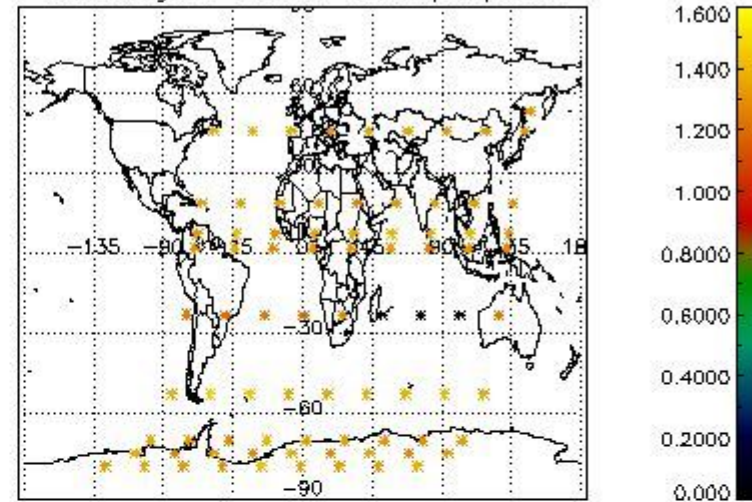


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

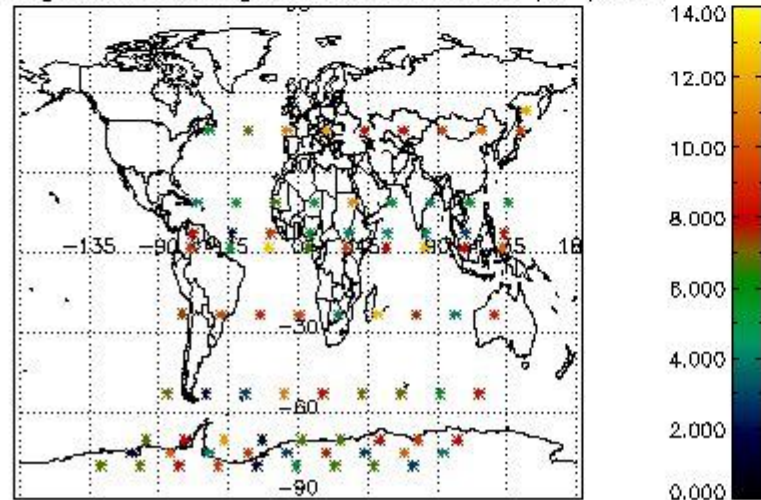
Percentage of cosmic ray hits per profile



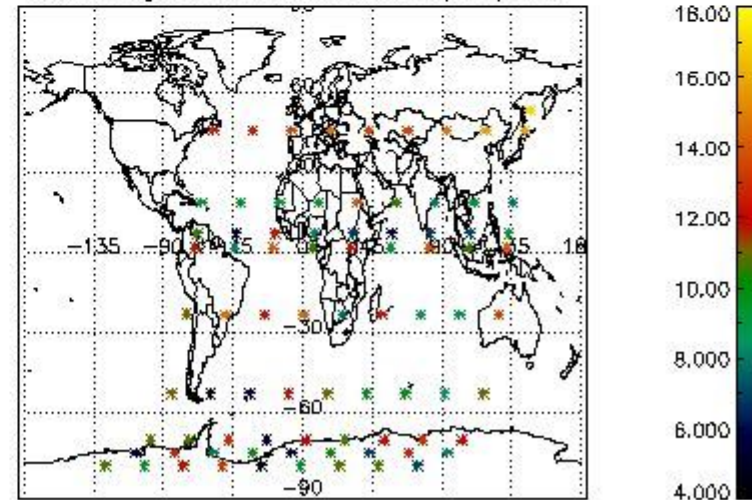
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



## 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

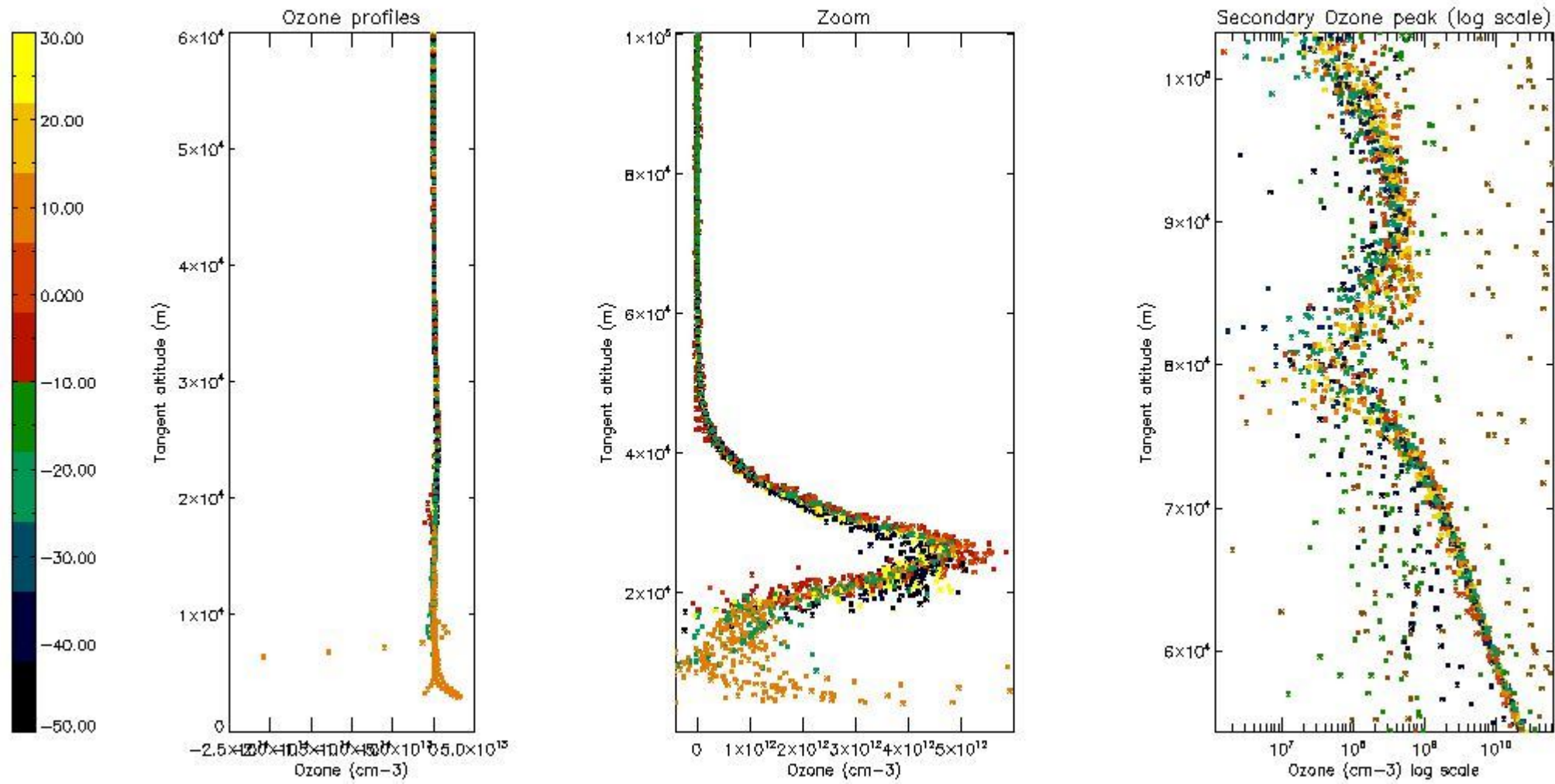
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	19

STD < 10	15
STD < 5	10

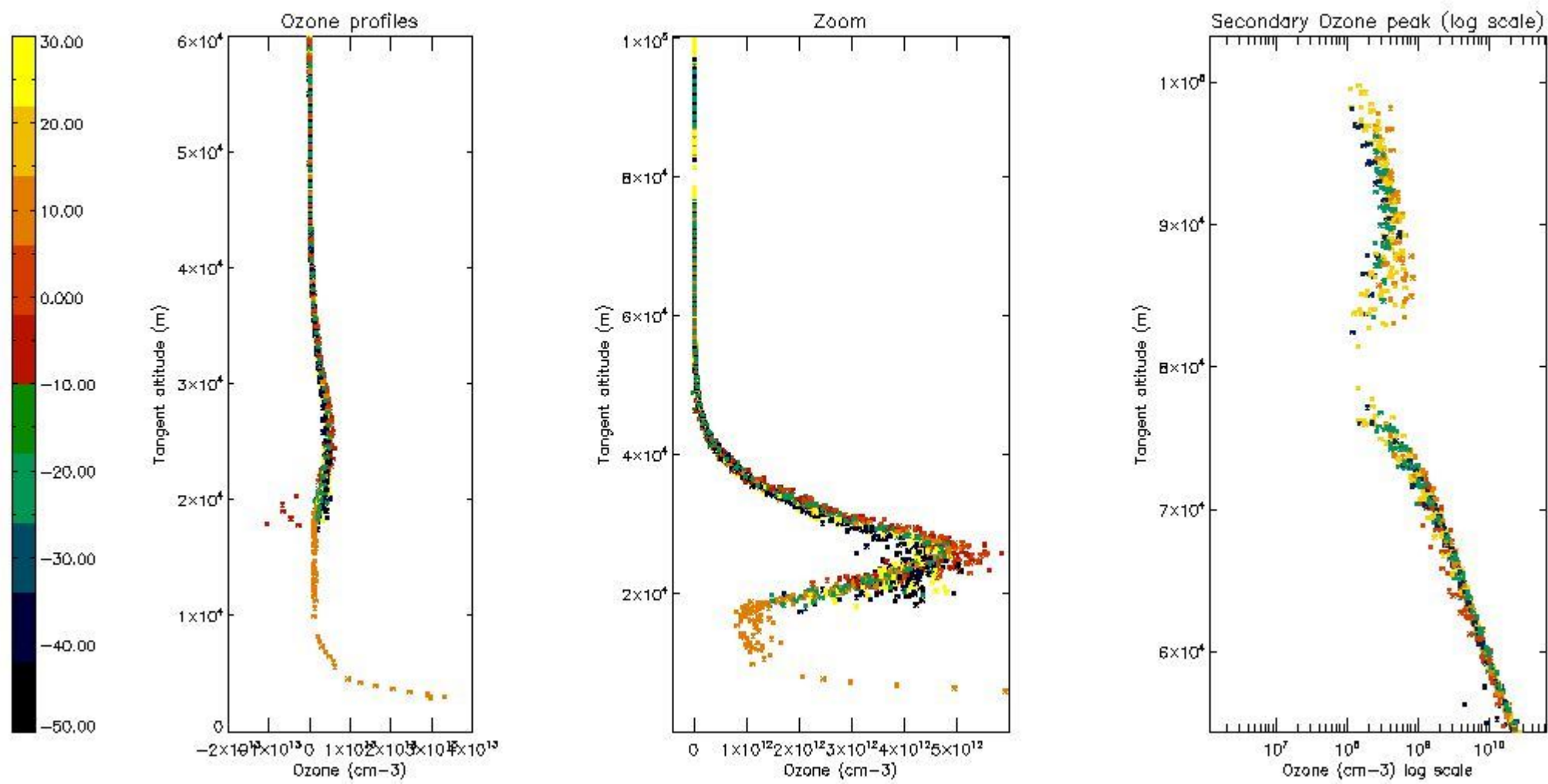
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



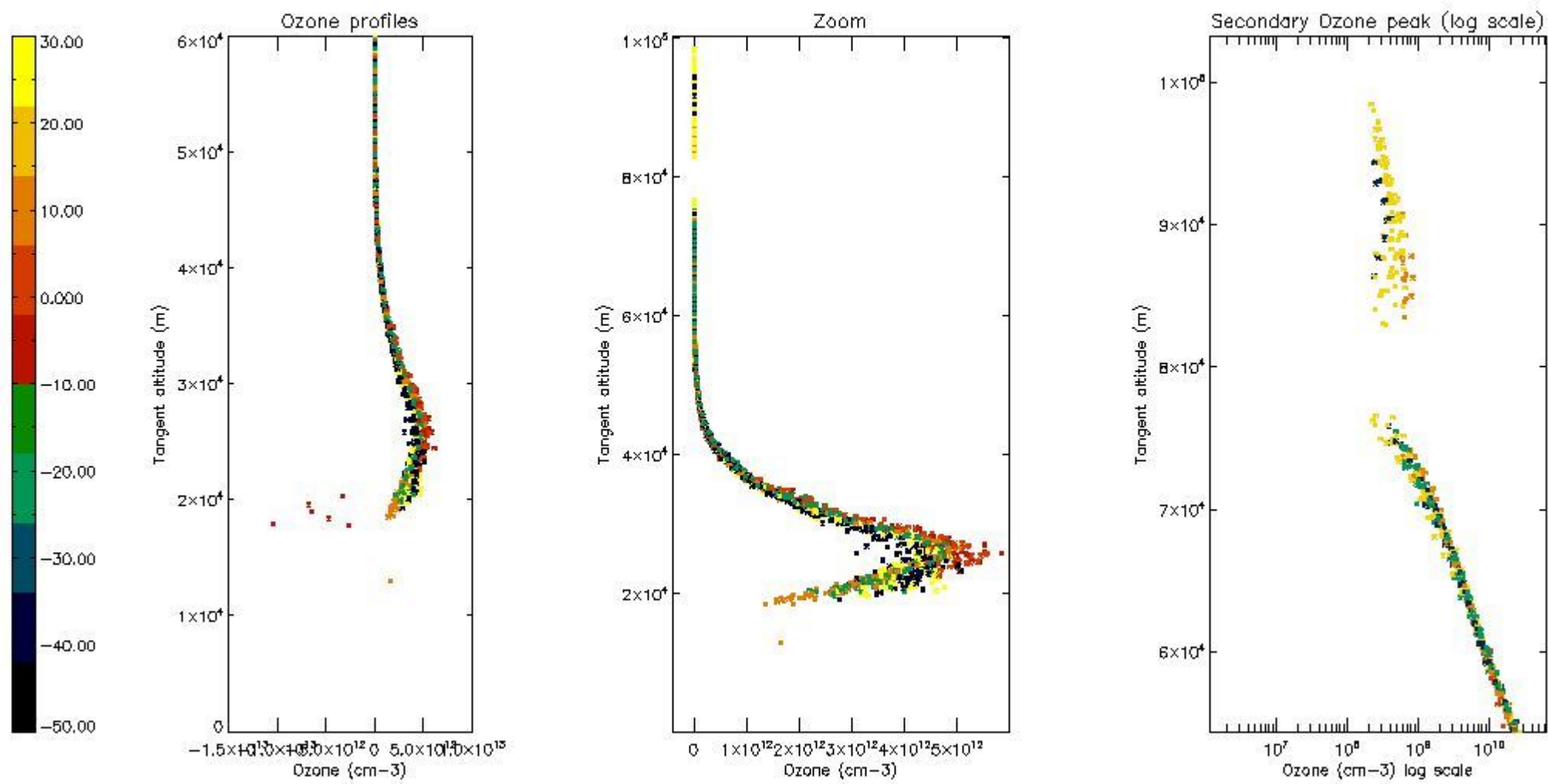
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



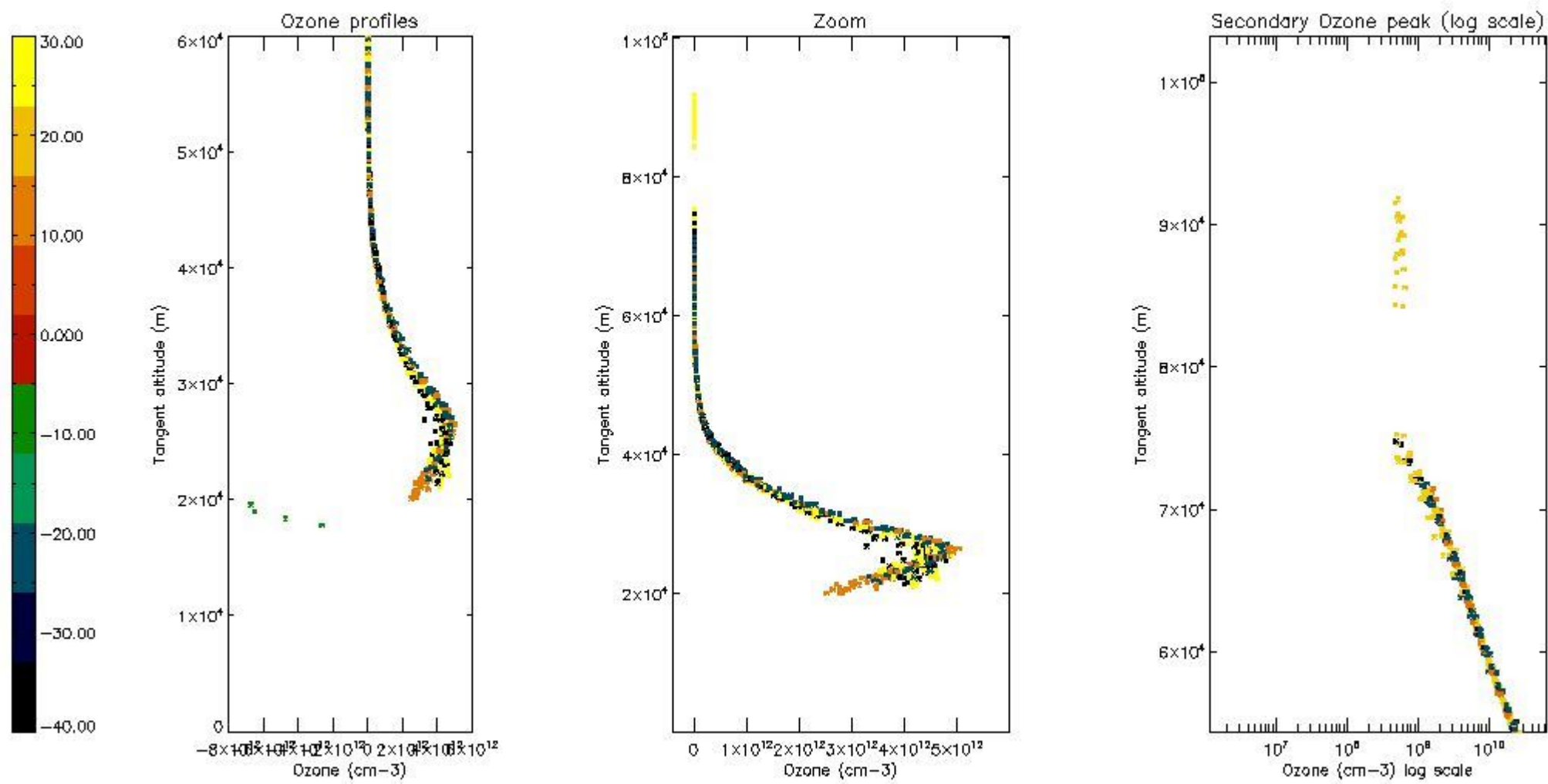
5.4 Plot ozone profiles where  $STD < 10\%$  (dark without errors)

The colorbar represents the latitude.



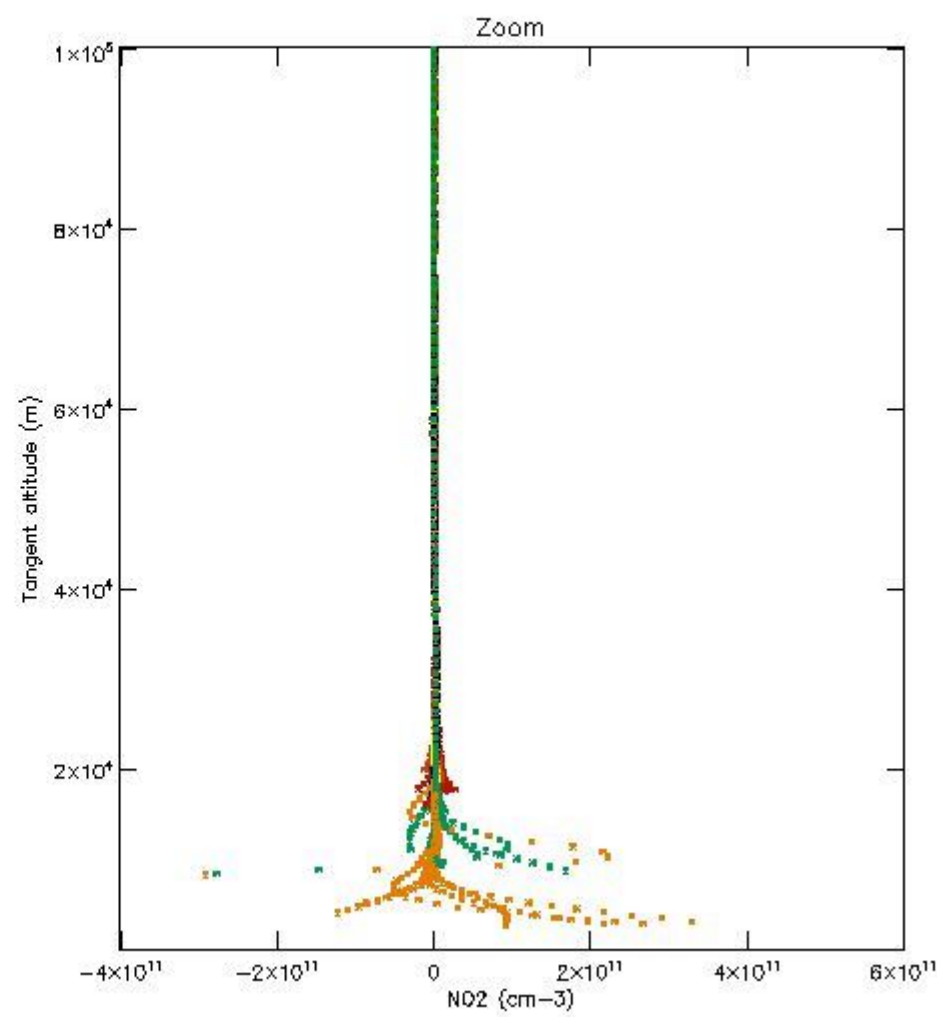
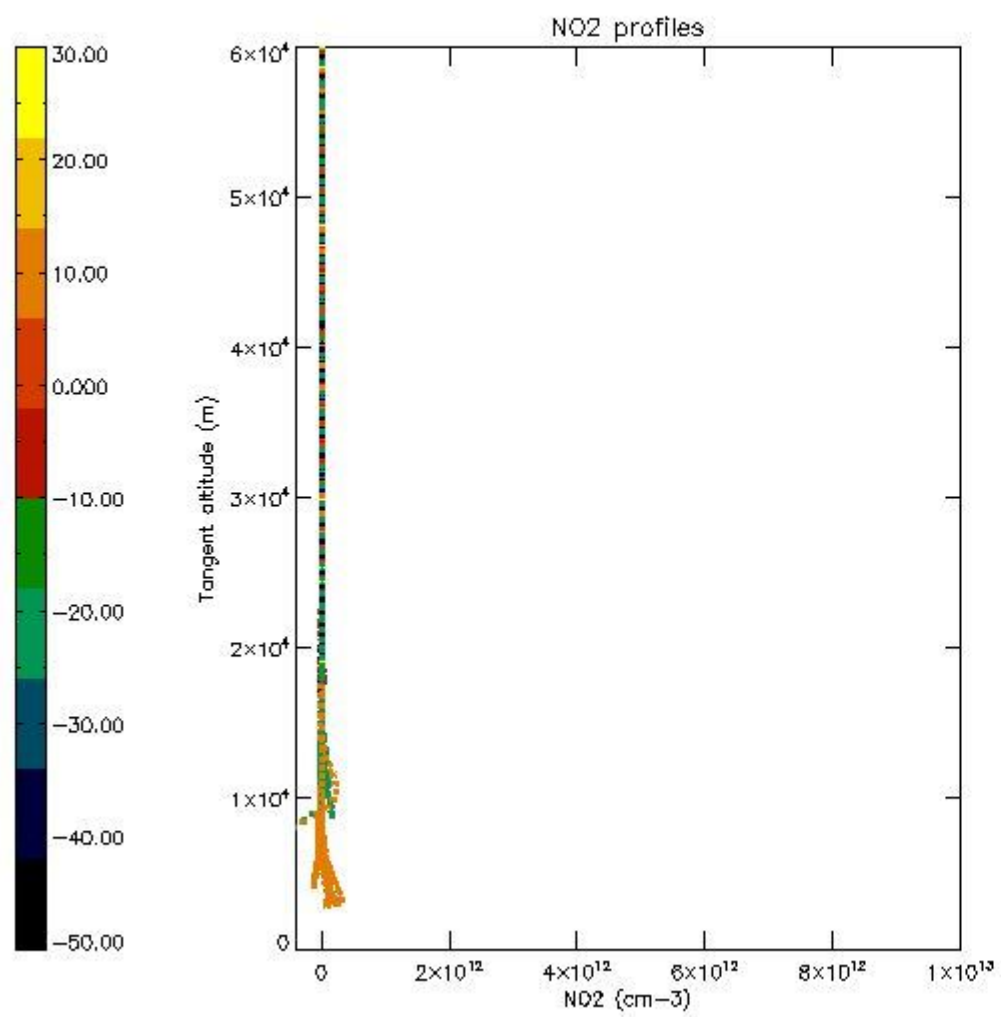
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



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

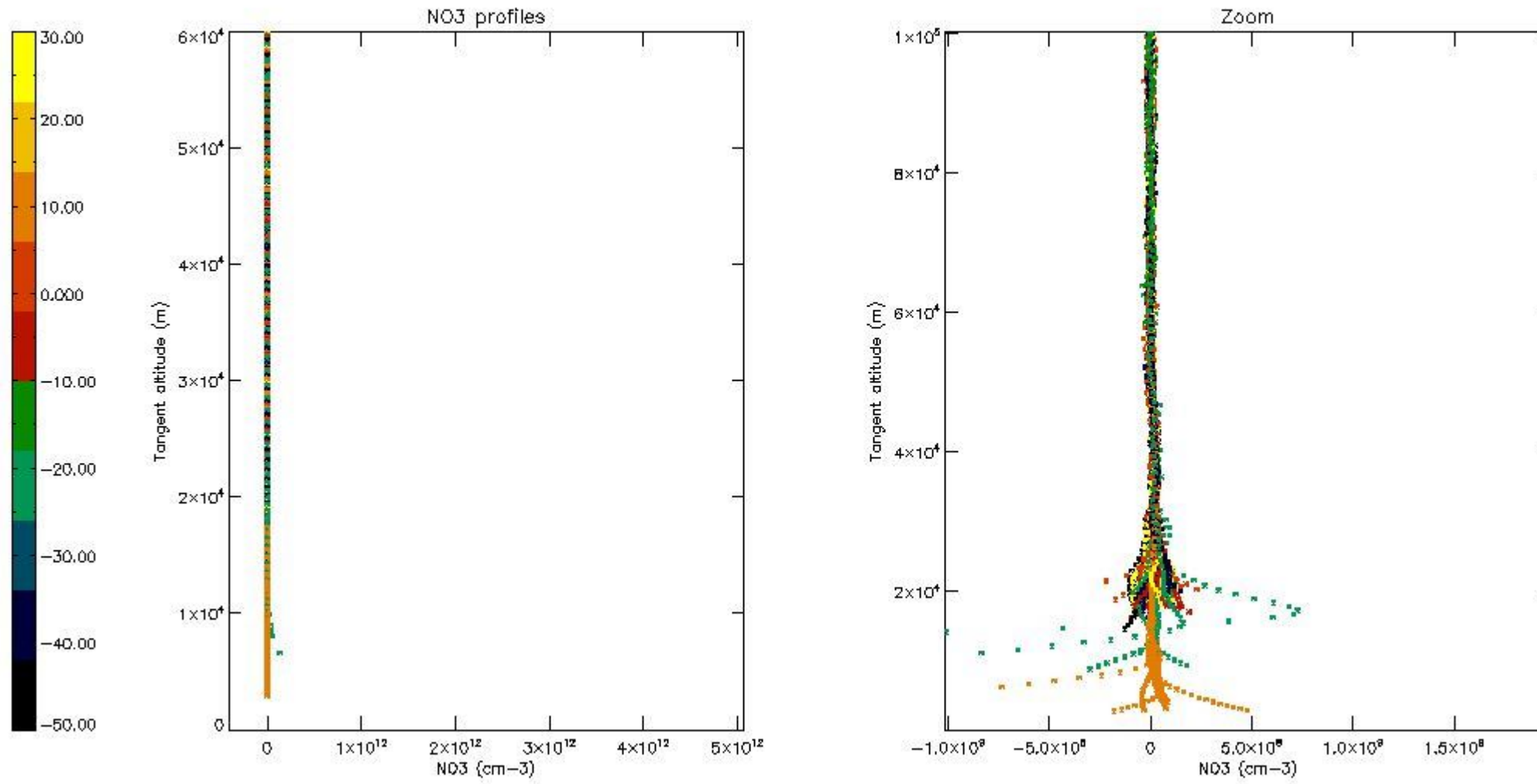
The colorbar represents the latitude.



*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	19-MAR-2006 00:04:40
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-MAR-2006 00:04:40
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-MAR-2006 00:04:40

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##### [4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

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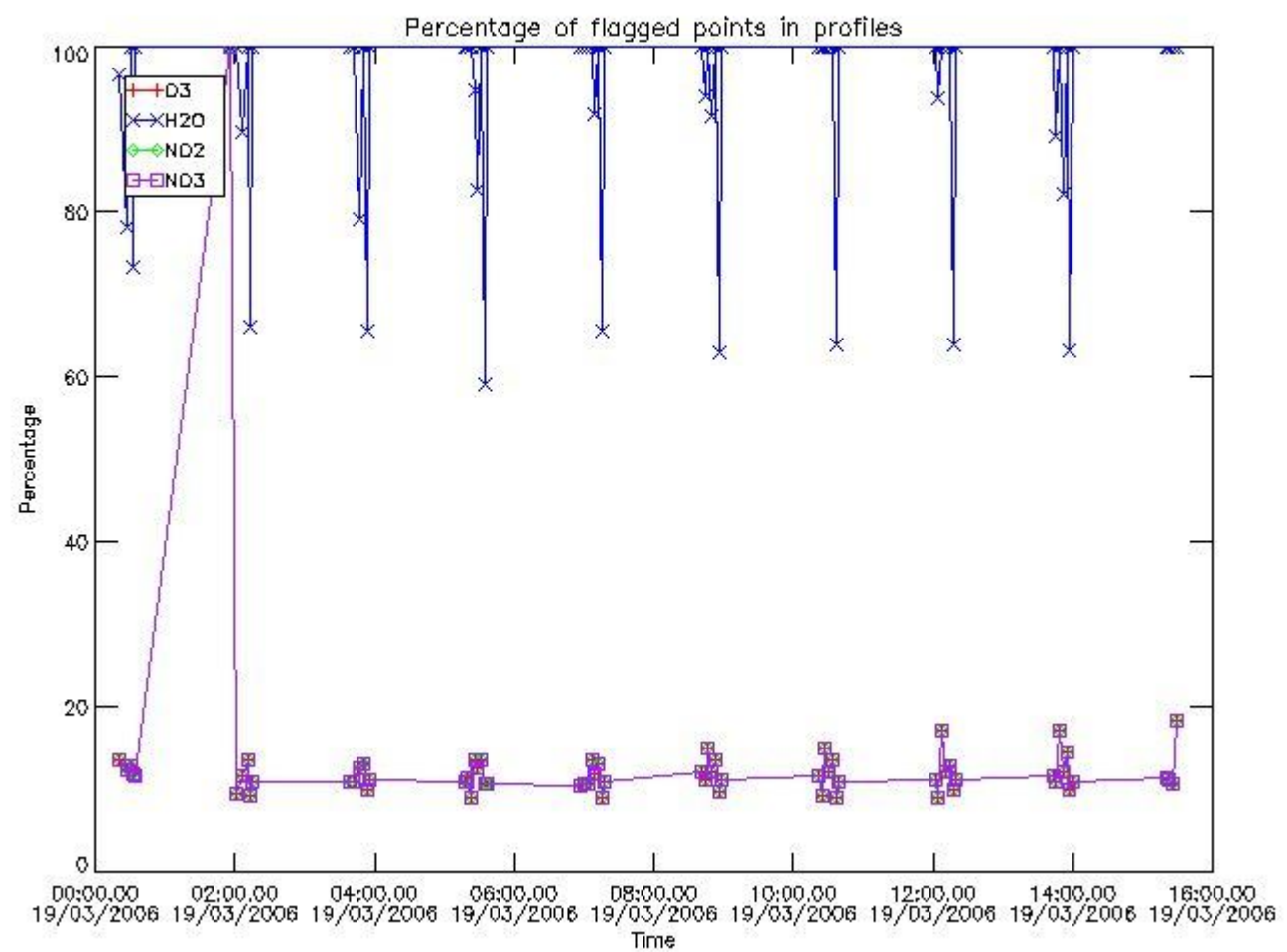


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183	GOM_NL__2PRFIN20060319_152242_000000462046_00082_21178_8393.N1	19-MAR-2006 15:22:42	Dark	46.000	57	34Sig Sgr	2.0660	26000.	92	21178	No
184	GOM_NL__2PRFIN20060319_152613_000000492046_00082_21178_8394.N1	19-MAR-2006 15:26:13	Dark	48.500	38	20Eps Sgr	1.8360	11000.	97	21178	No
185	GOM_NL__2PRFIN20060319_152922_000000282046_00083_21179_8375.N1	19-MAR-2006 15:29:22	Dark	27.500	178	lot1Sco	3.0220	6550.0	55	21179	No

### 3. Quality information per product

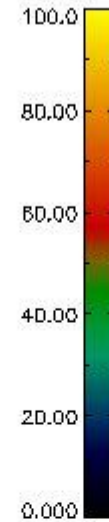
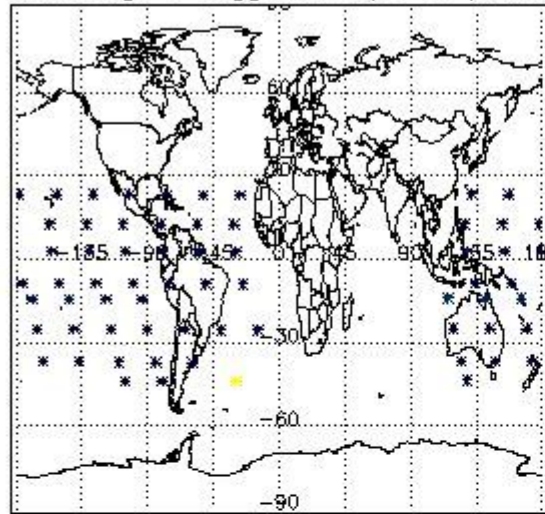
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

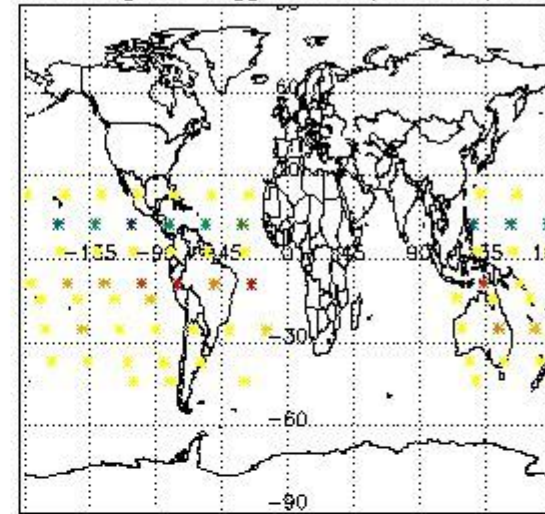


3.2 Plot quality information per product (world map)

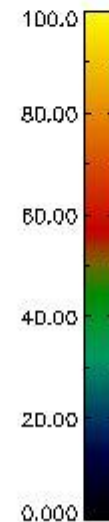
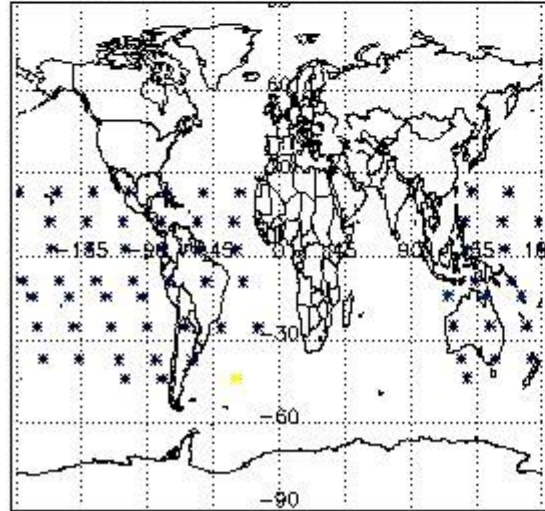
Percentage of flagged data per O3 profile



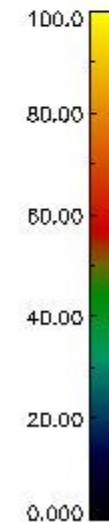
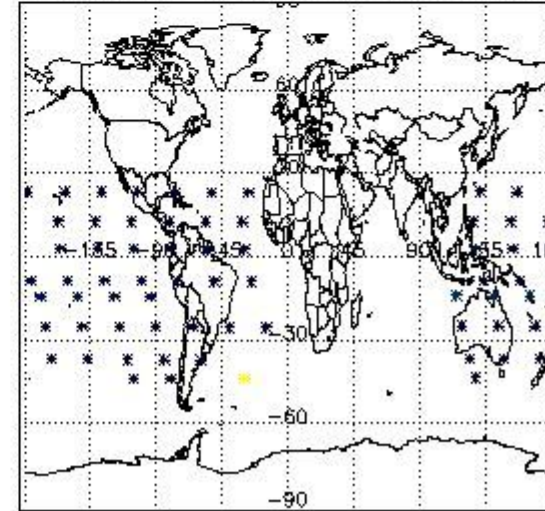
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



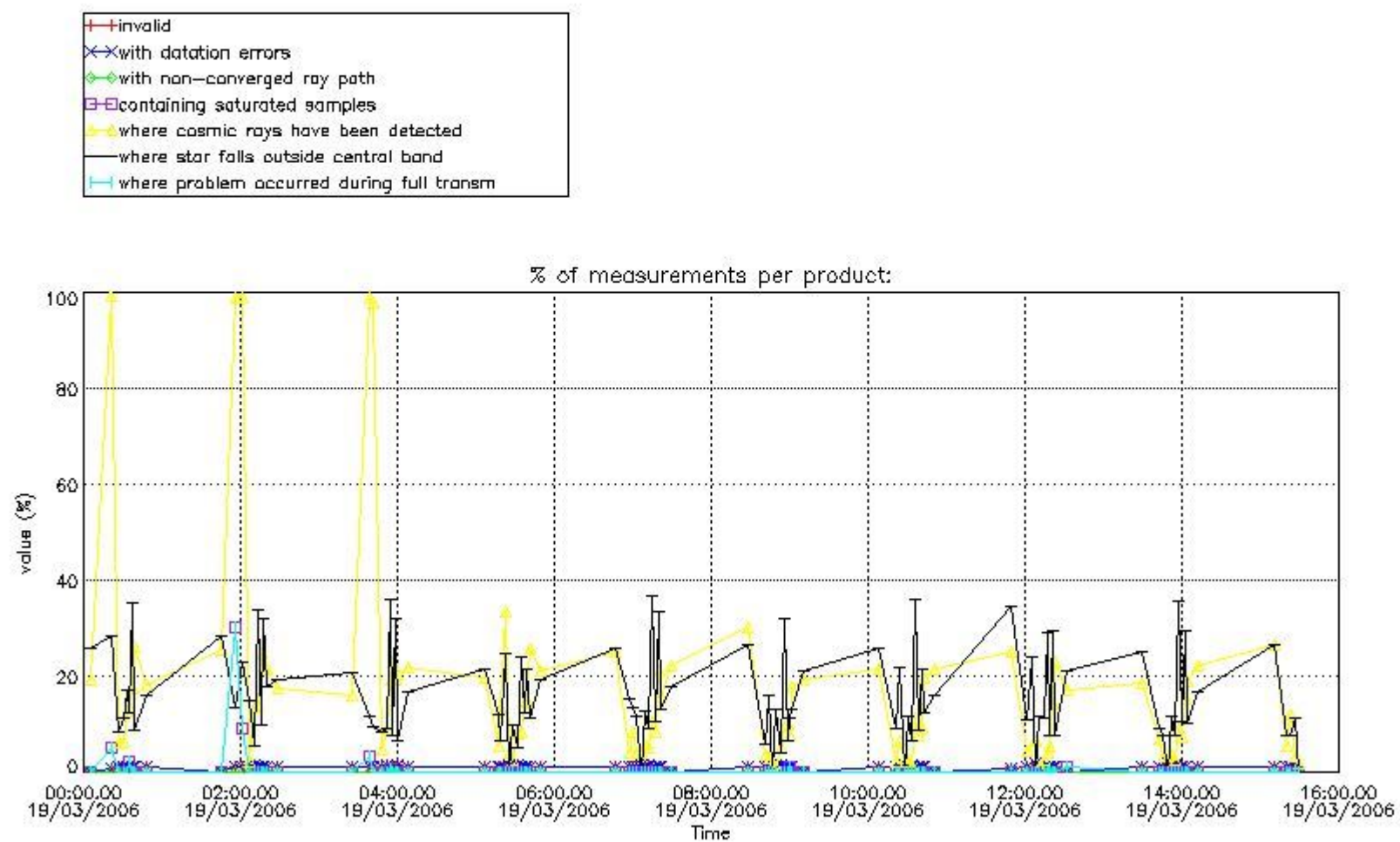
#### 4. Level 1 quality information per product

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.

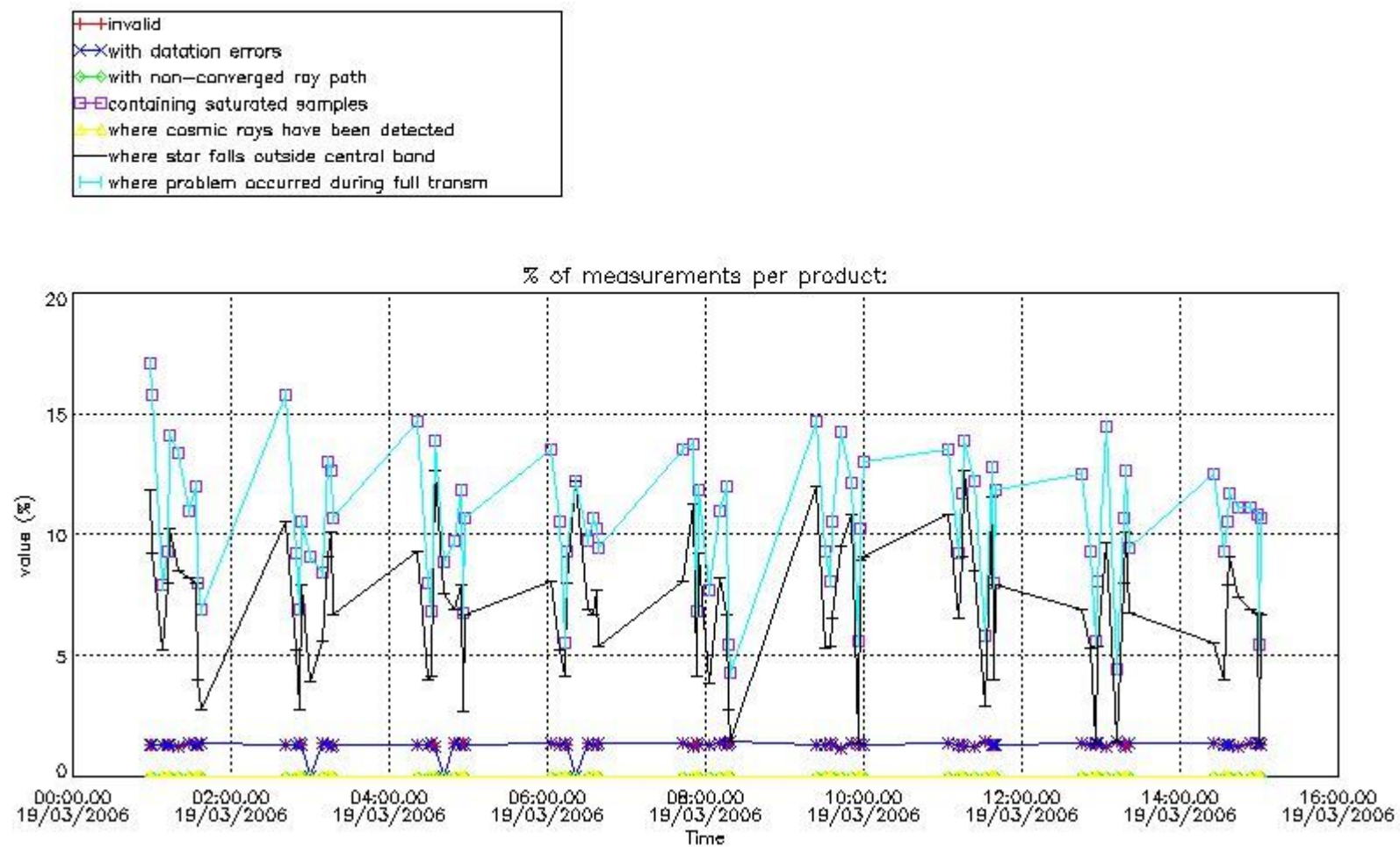
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

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



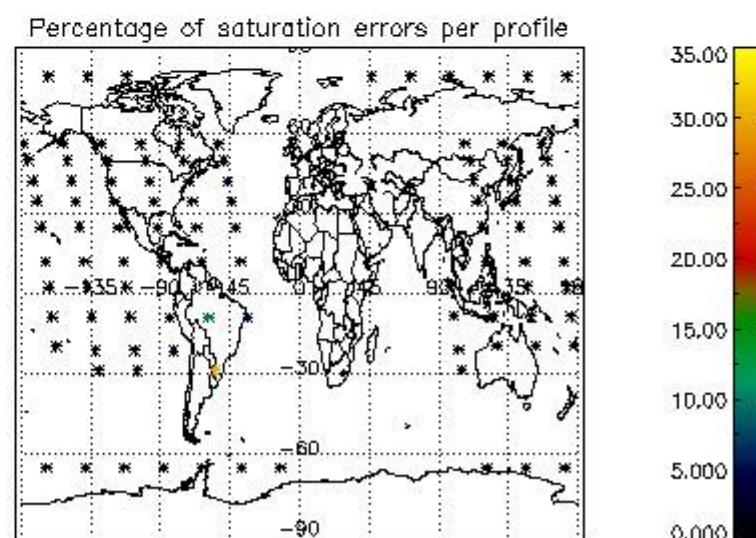
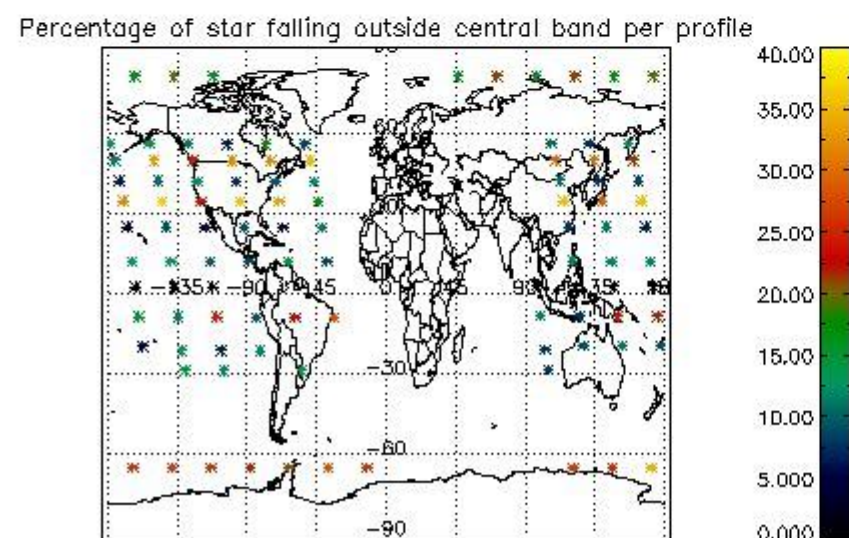
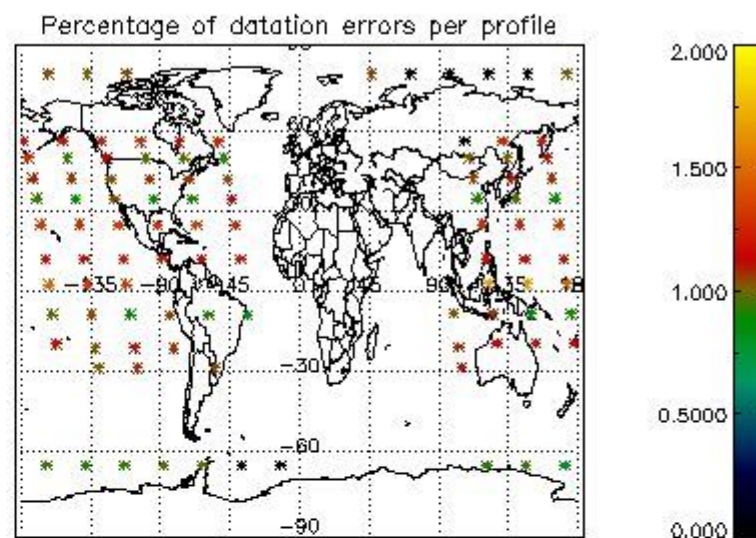
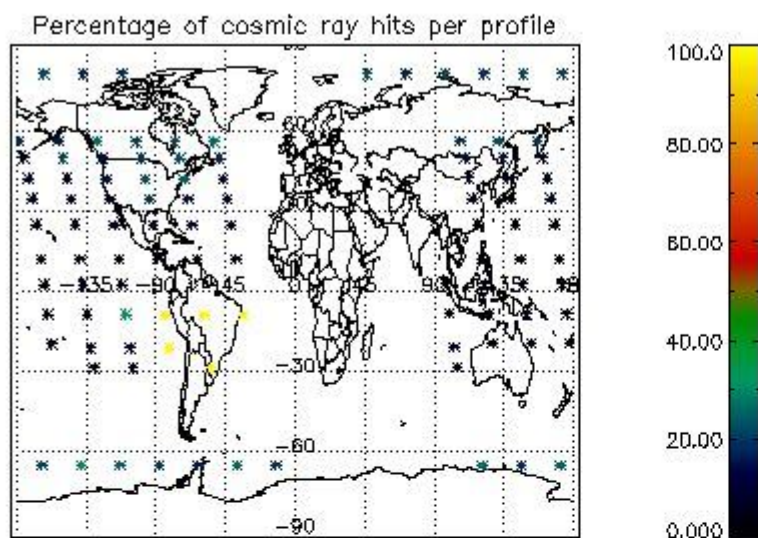


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

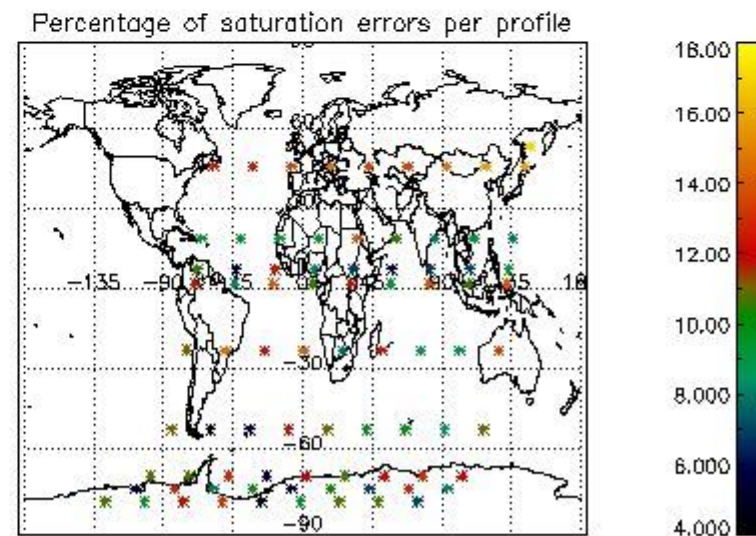
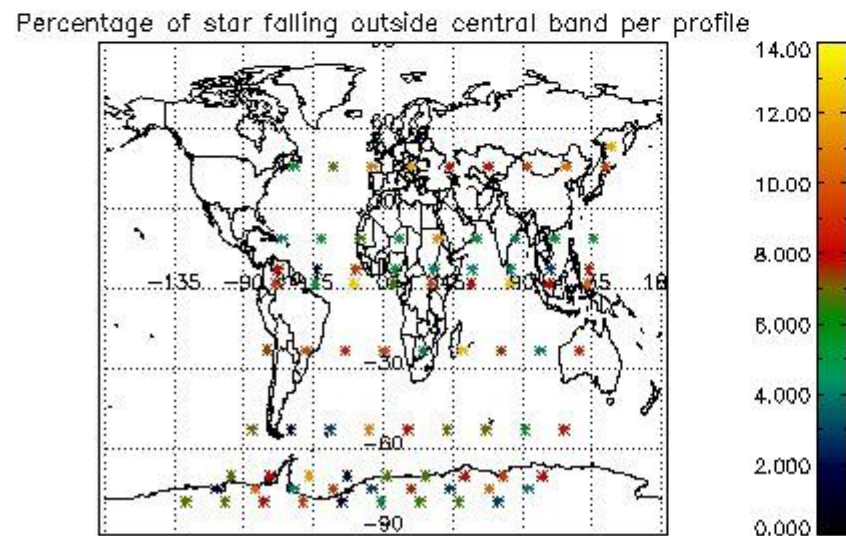
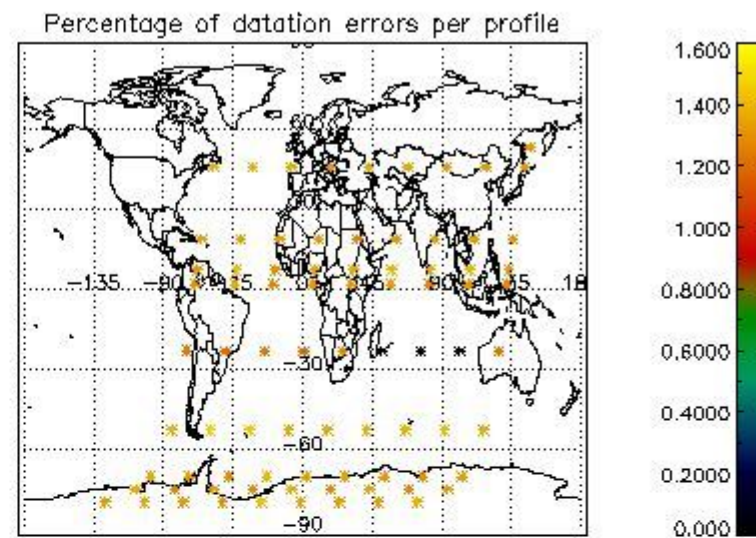
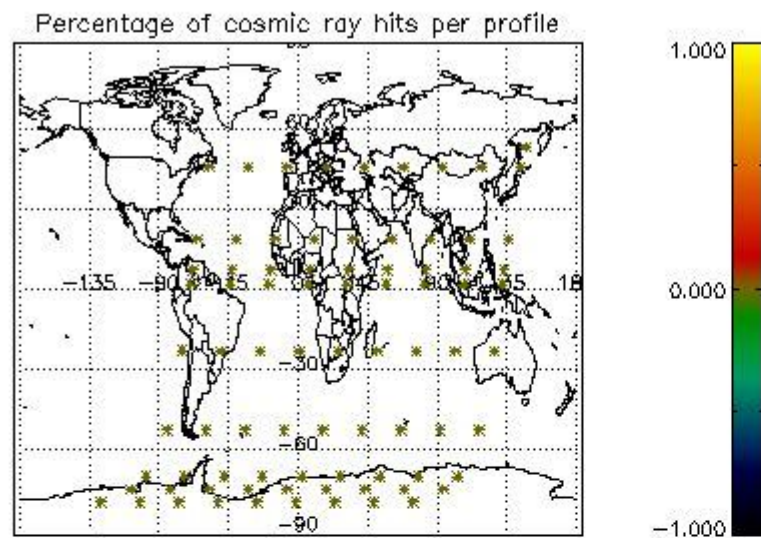


4.2 Plot quality information per product coming from level 1b processing (world map)

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

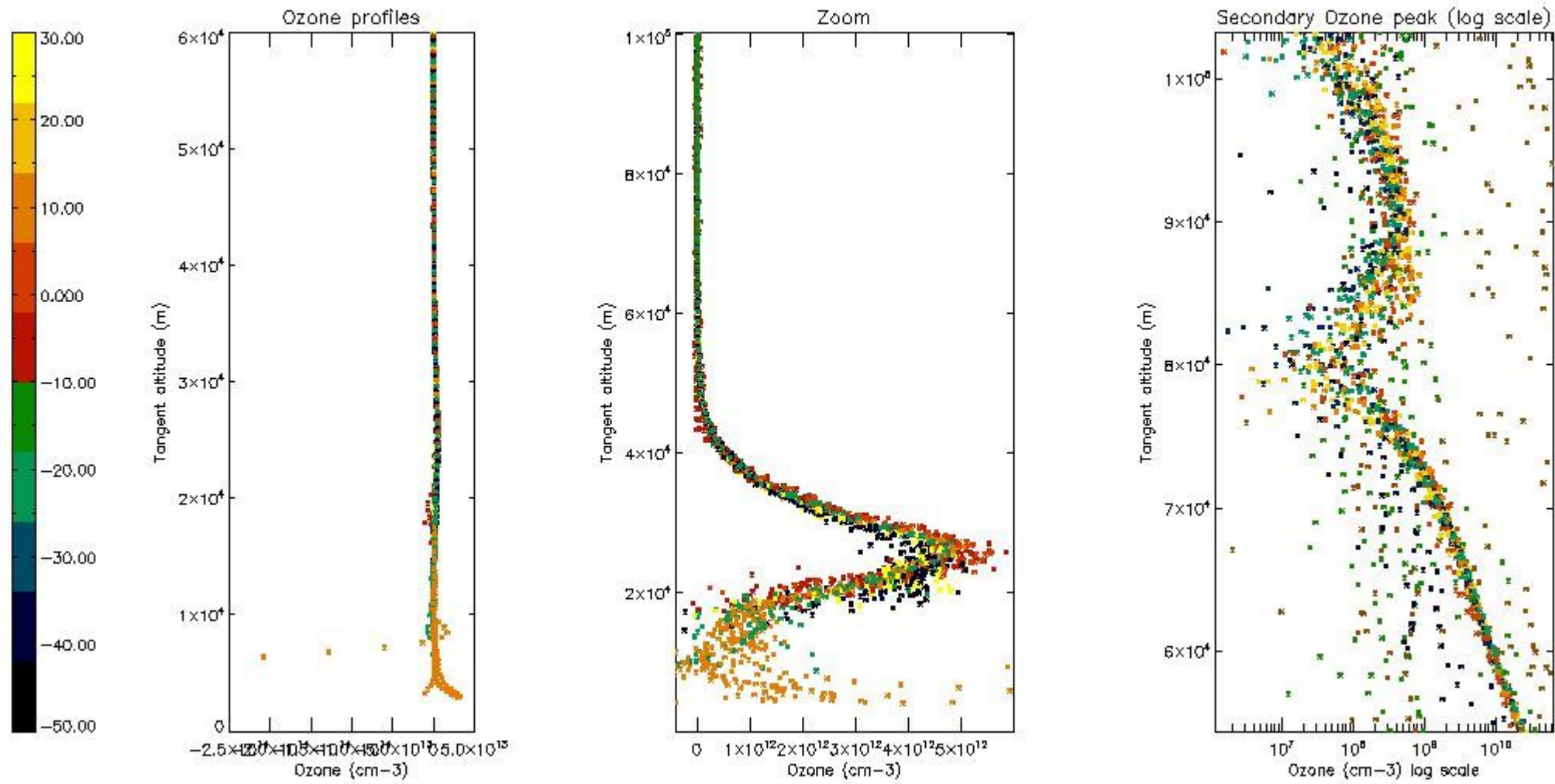
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	19

STD < 10	15
STD < 5	10

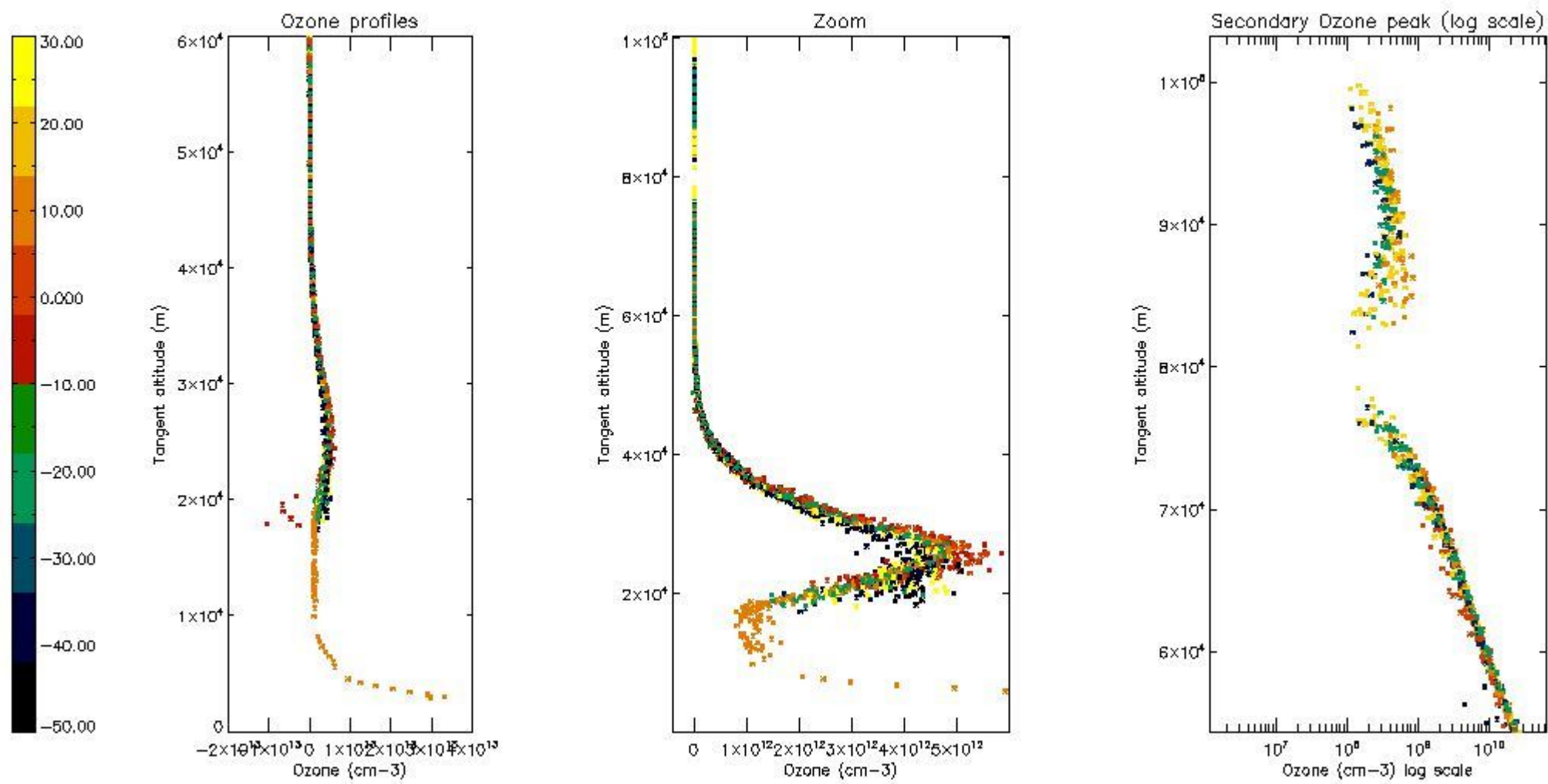
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



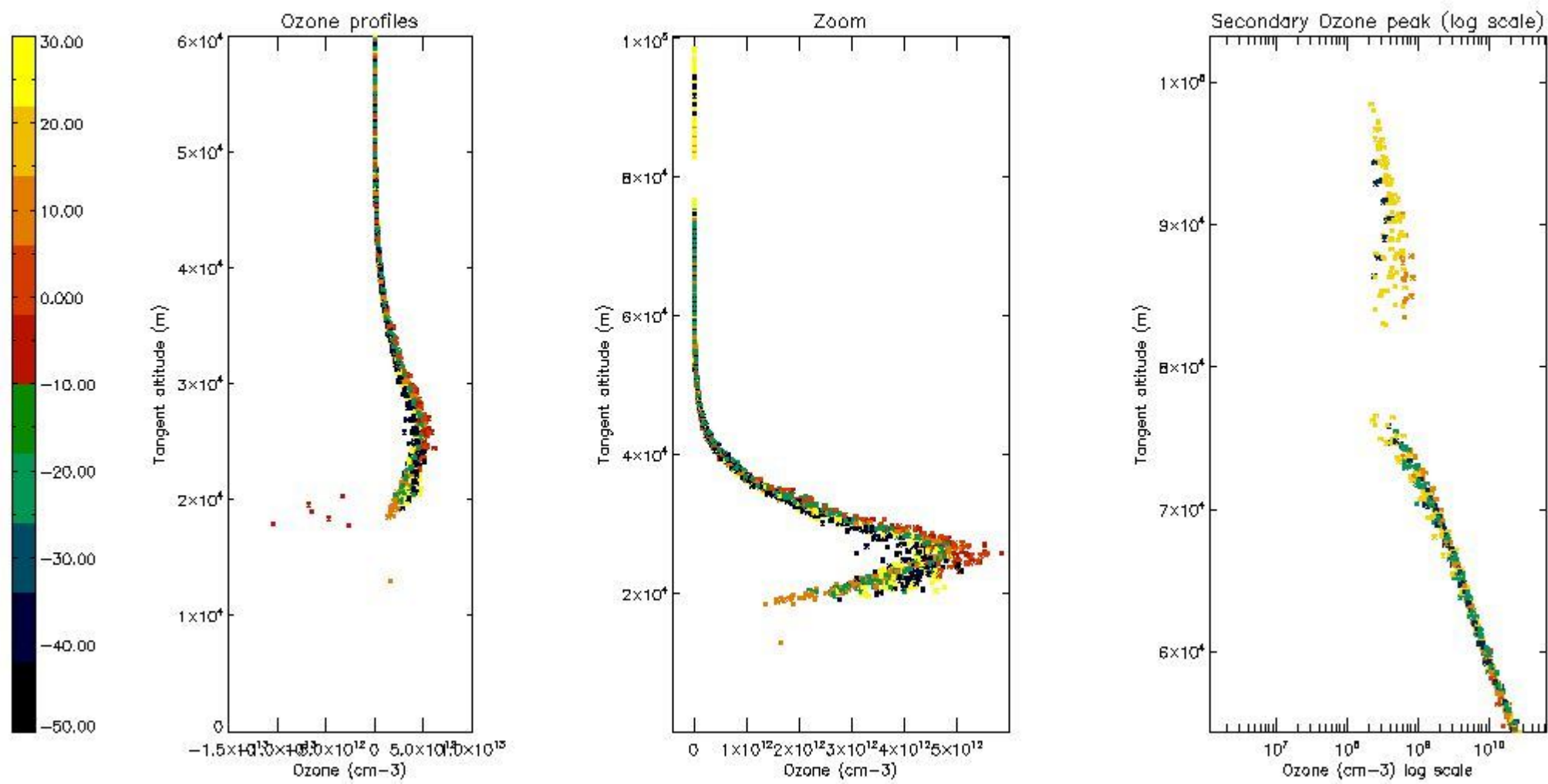
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



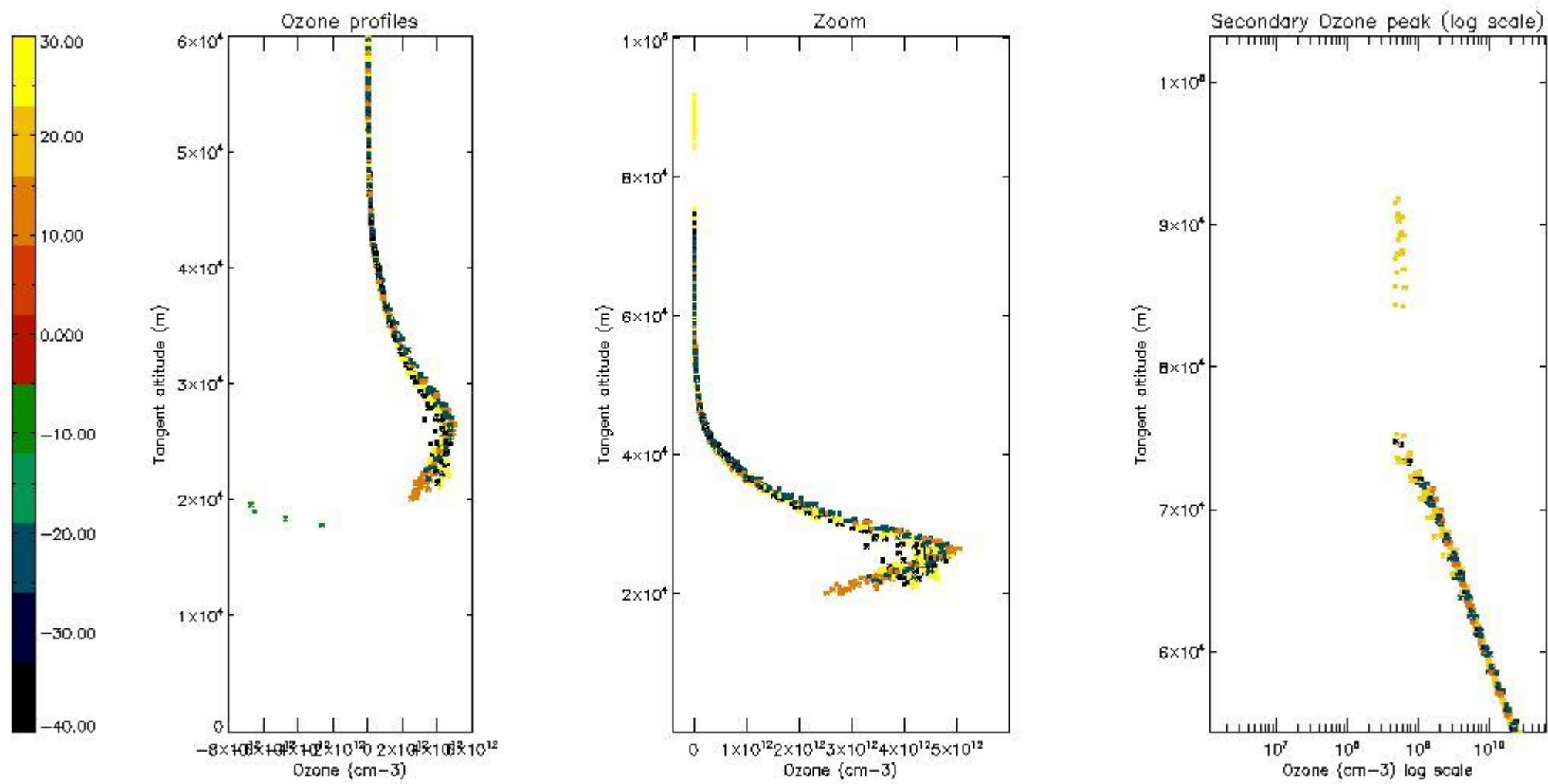
5.4 Plot ozone profiles where  $STD < 10\%$  (dark without errors)

The colorbar represents the latitude.



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

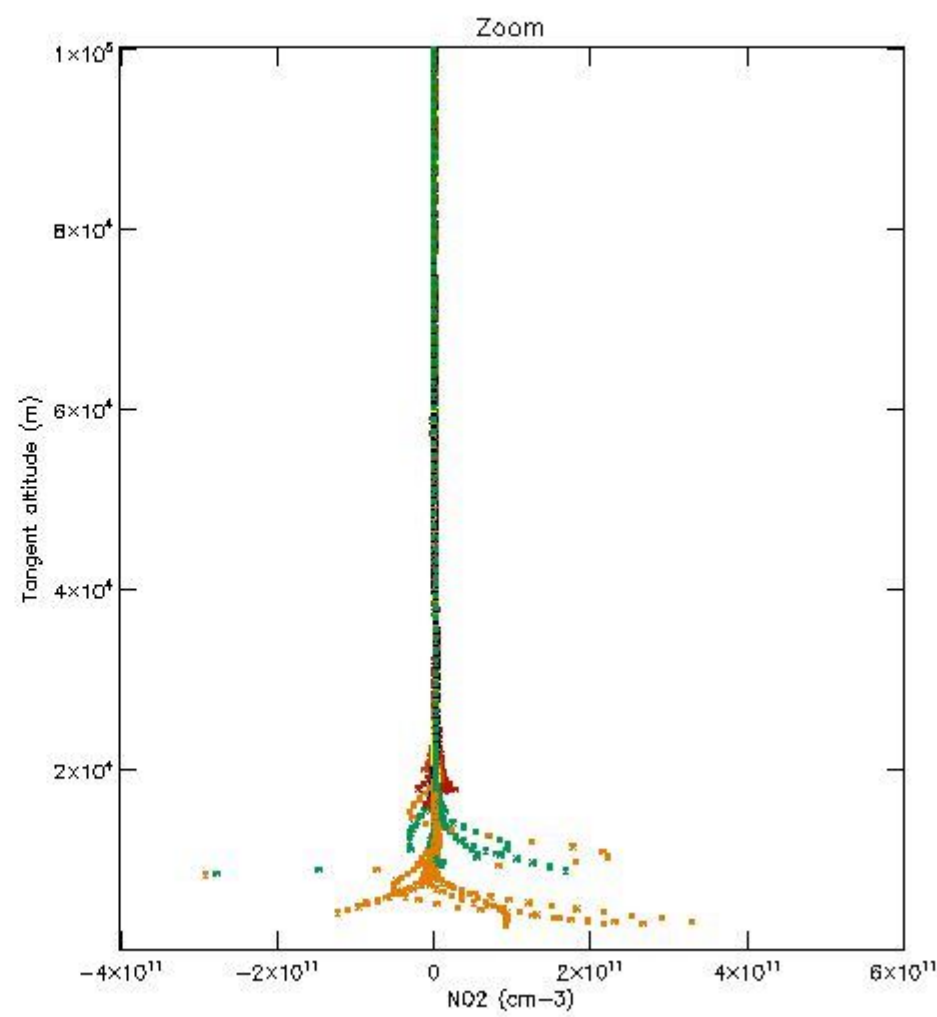
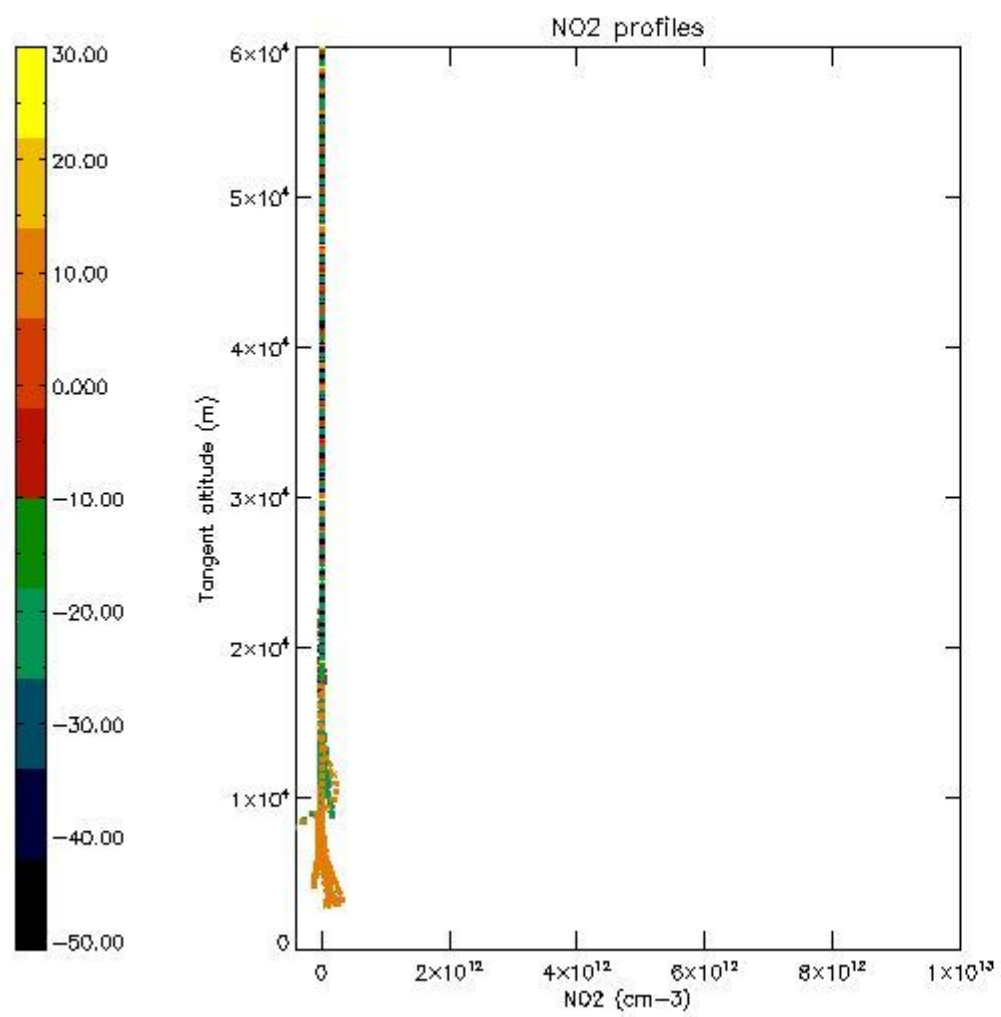
The colorbar represents the latitude.



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

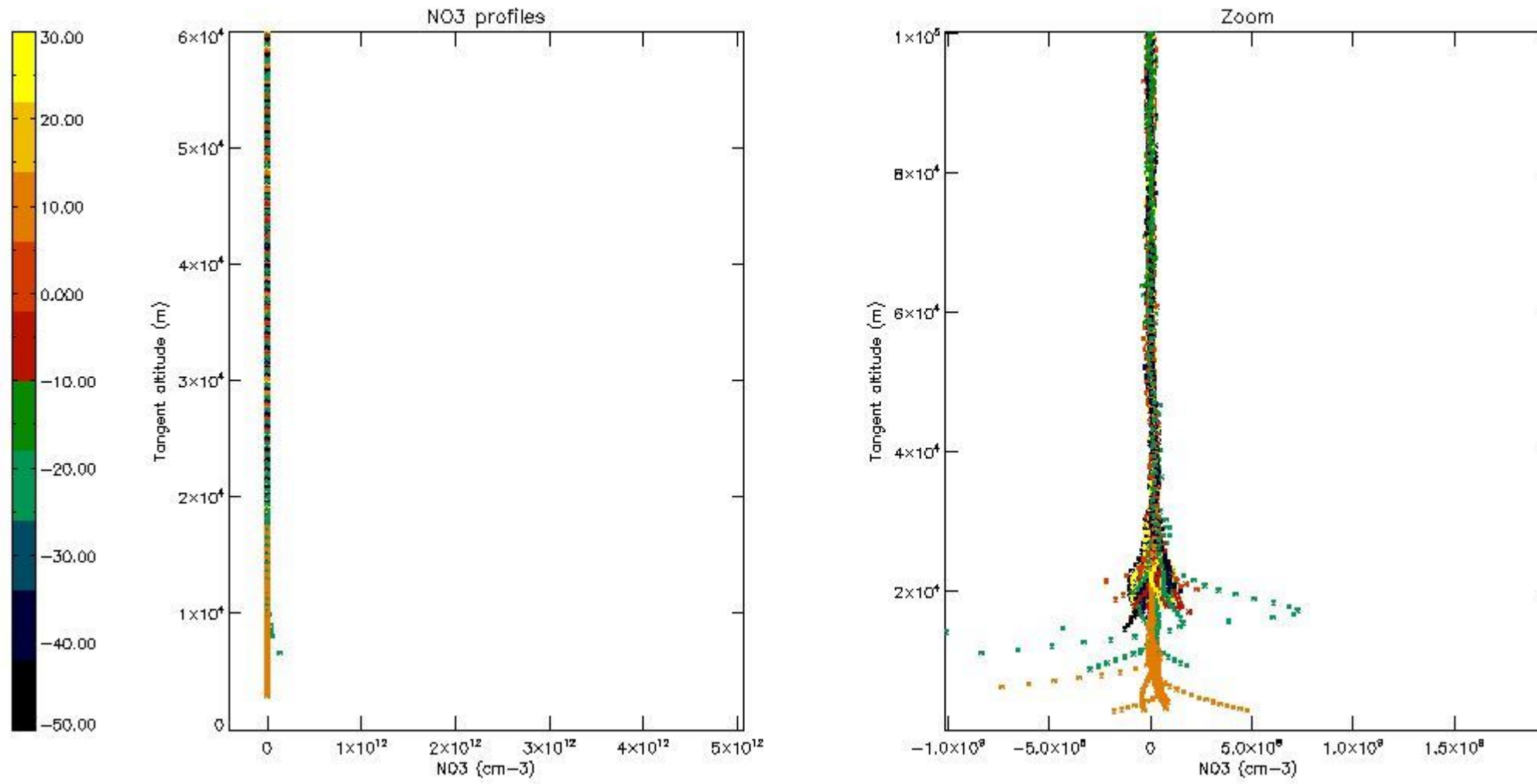
The colorbar represents the latitude.





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

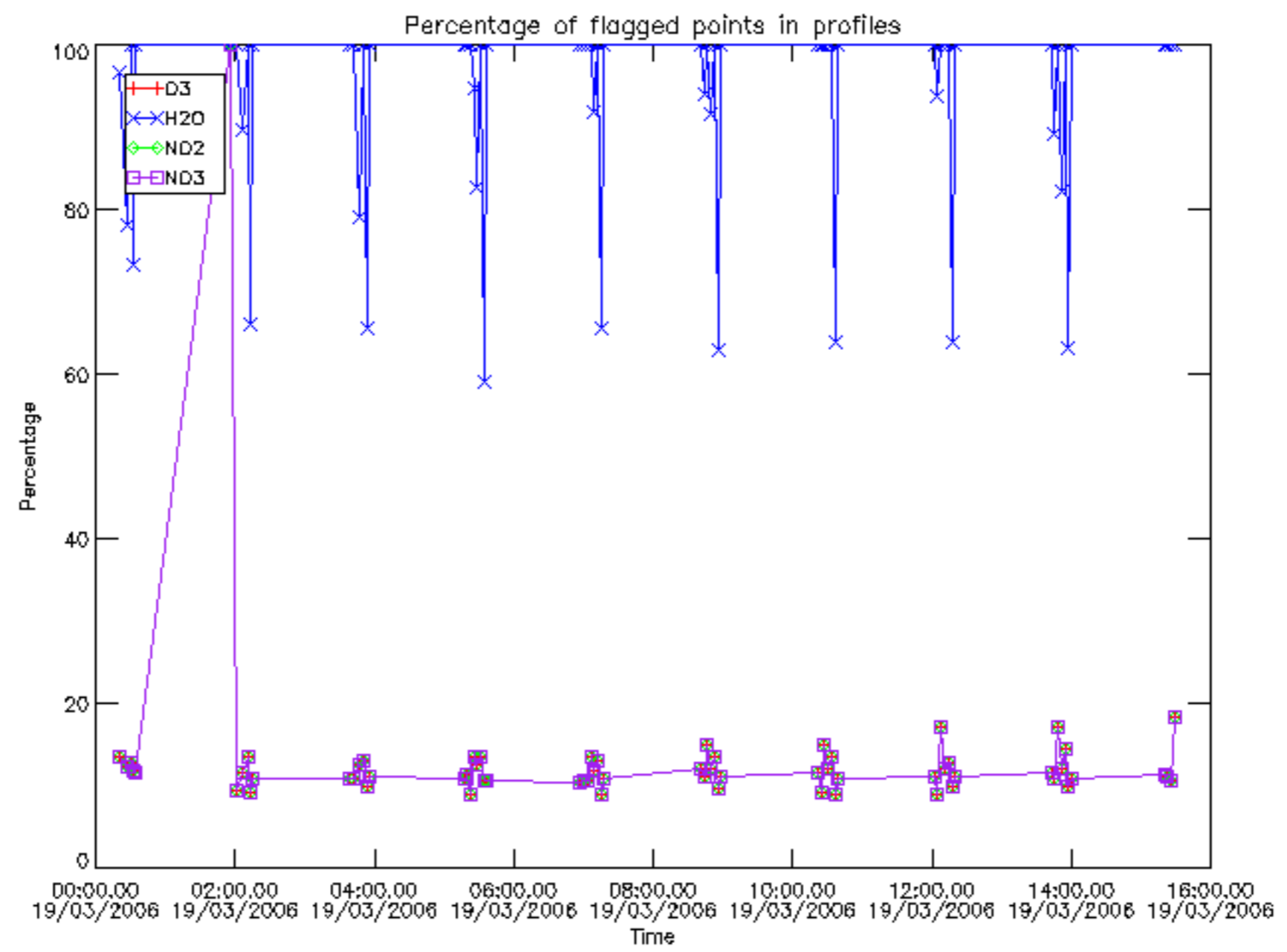
The colorbar represents the latitude.



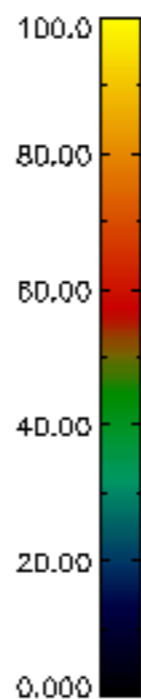
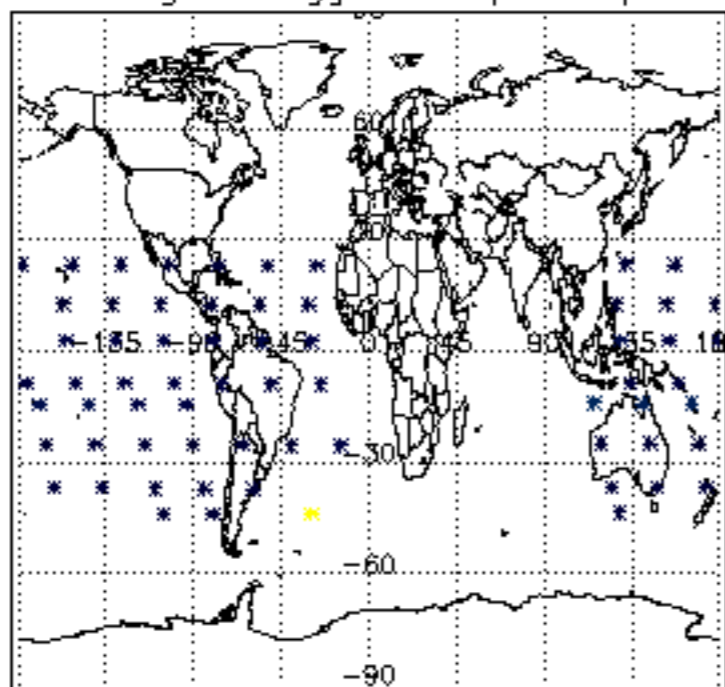
## 6. Auxiliary Data Files used for the production reported in section 2

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.

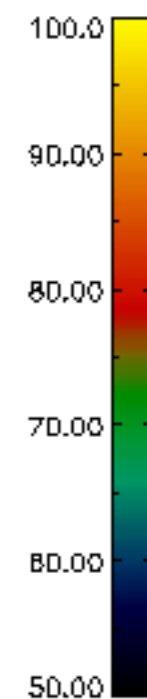
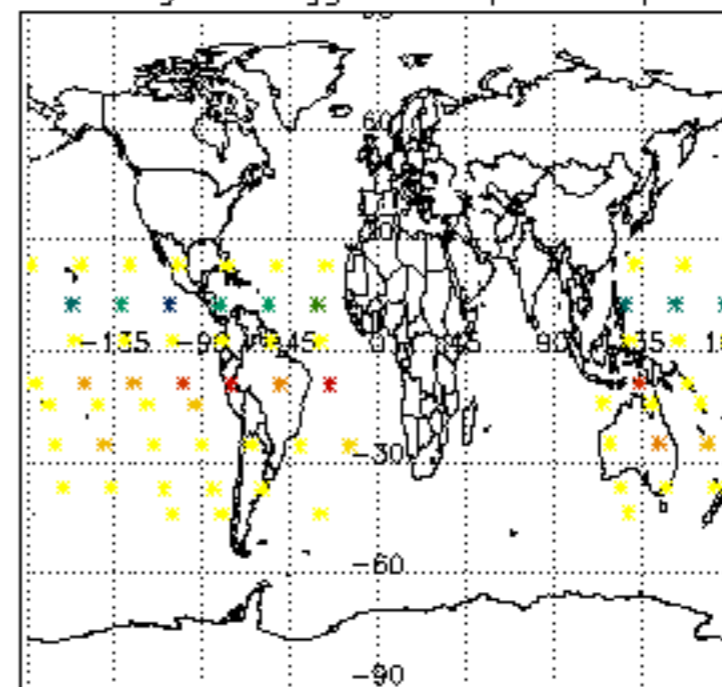
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	19-MAR-2006 00:04:40
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-MAR-2006 00:04:40
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-MAR-2006 00:04:40



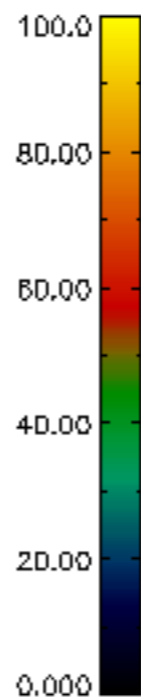
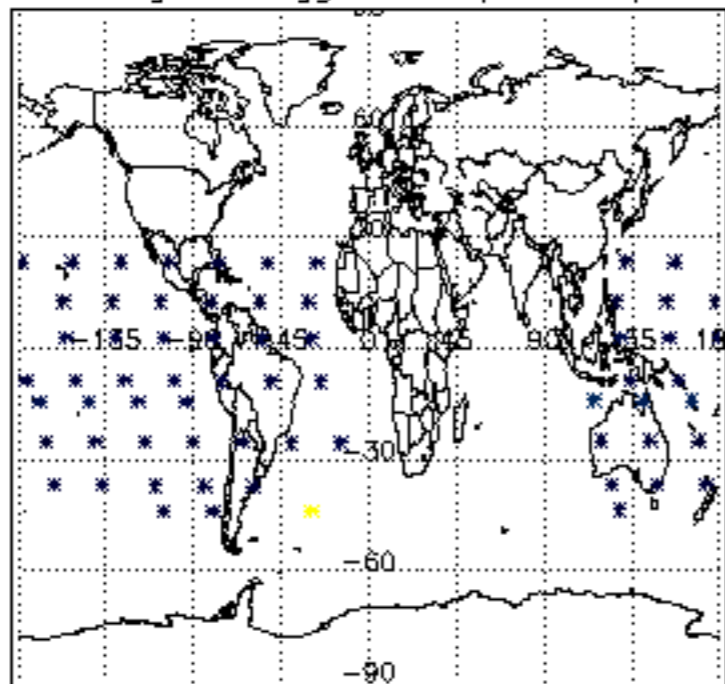
Percentage of flagged data per D3 profile



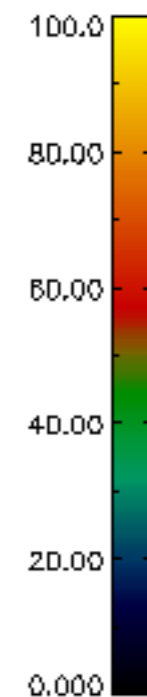
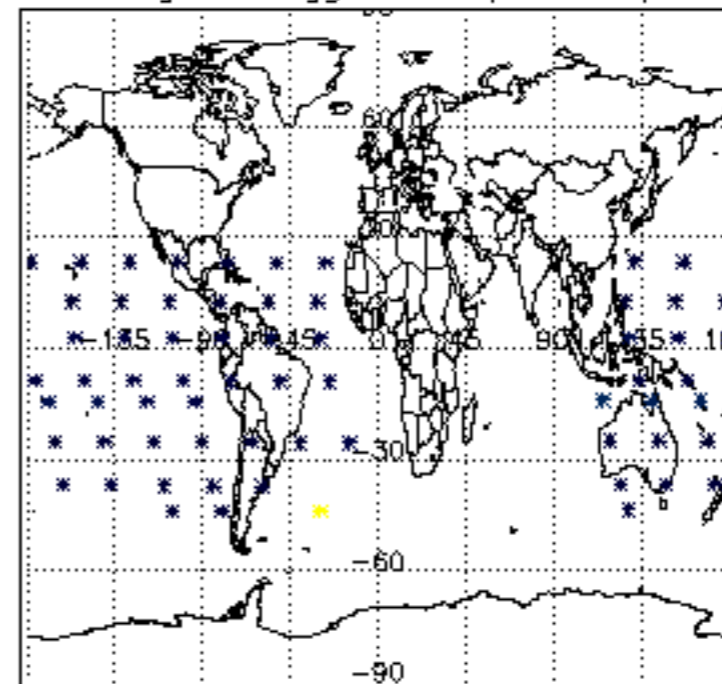
Percentage of flagged data per H2O profile

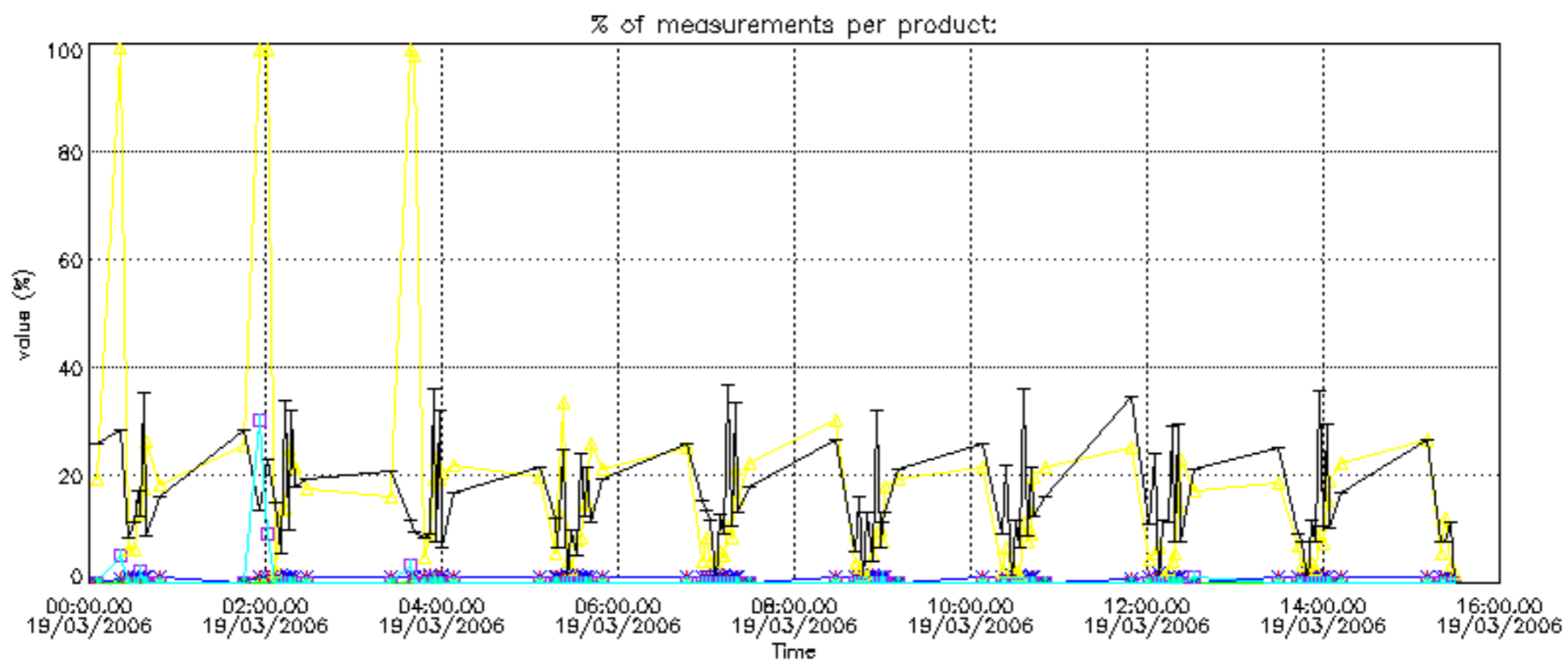


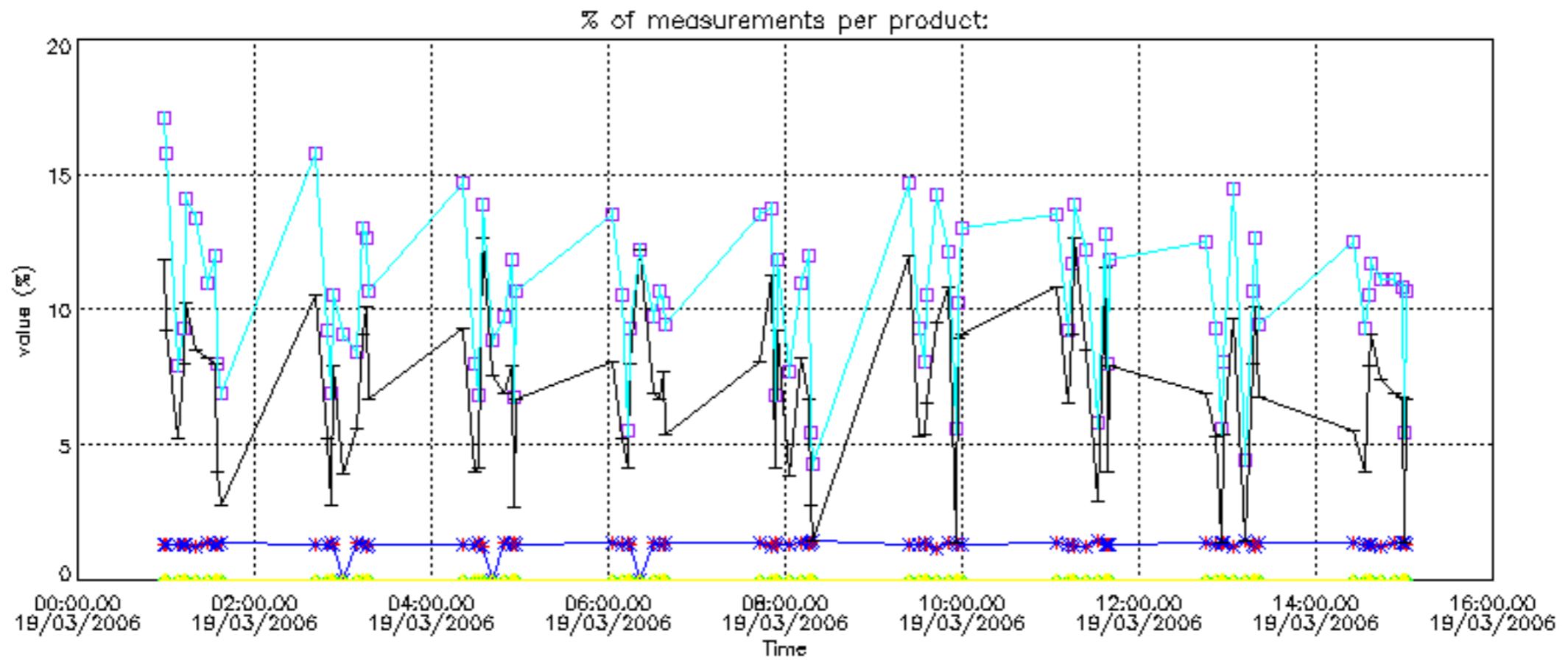
Percentage of flagged data per NO2 profile



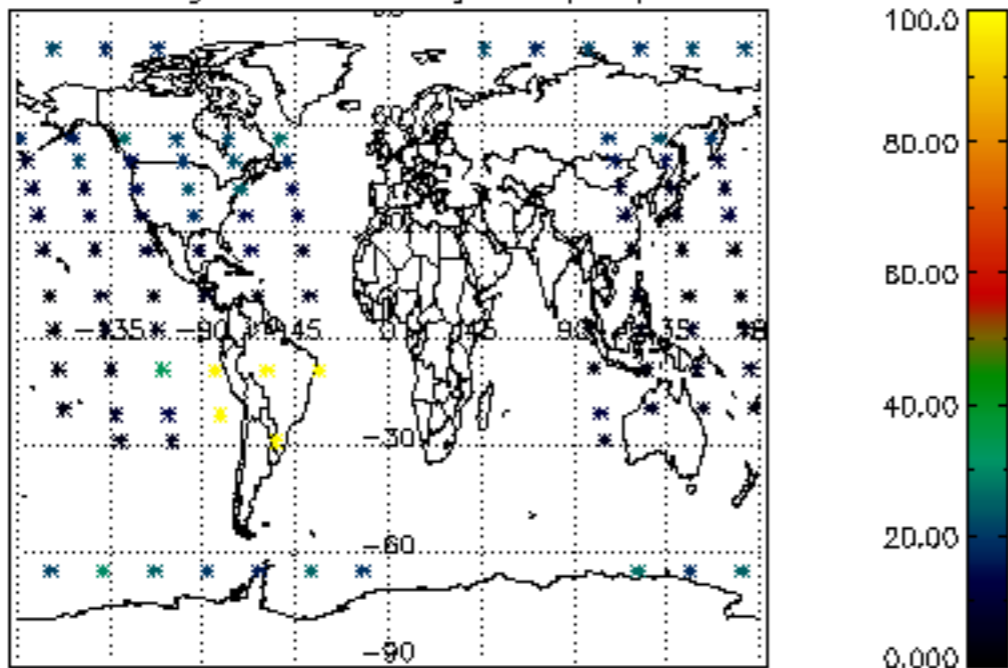
Percentage of flagged data per NO3 profile



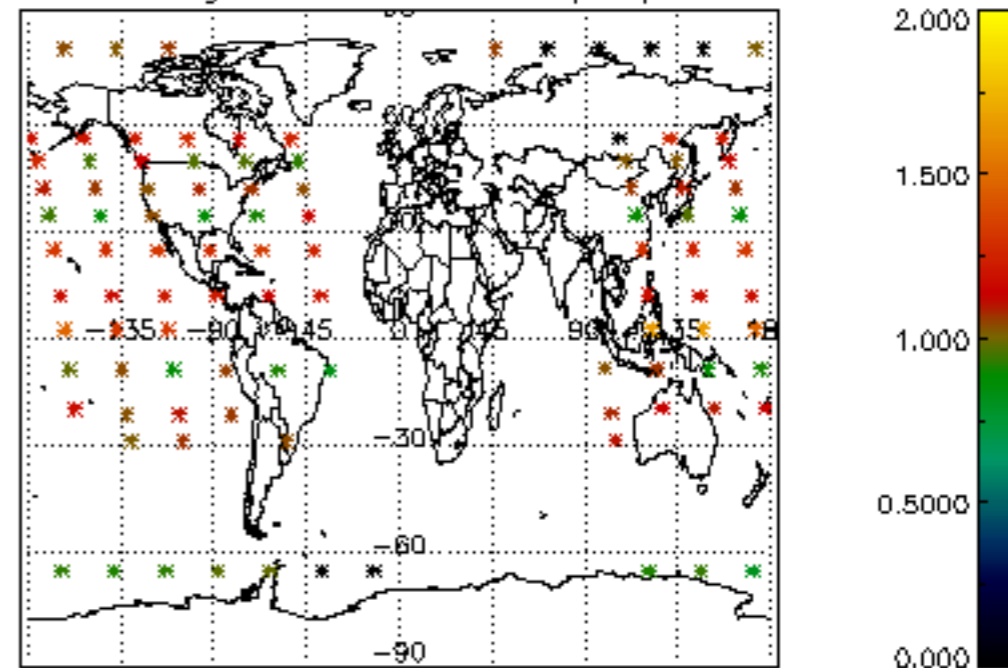




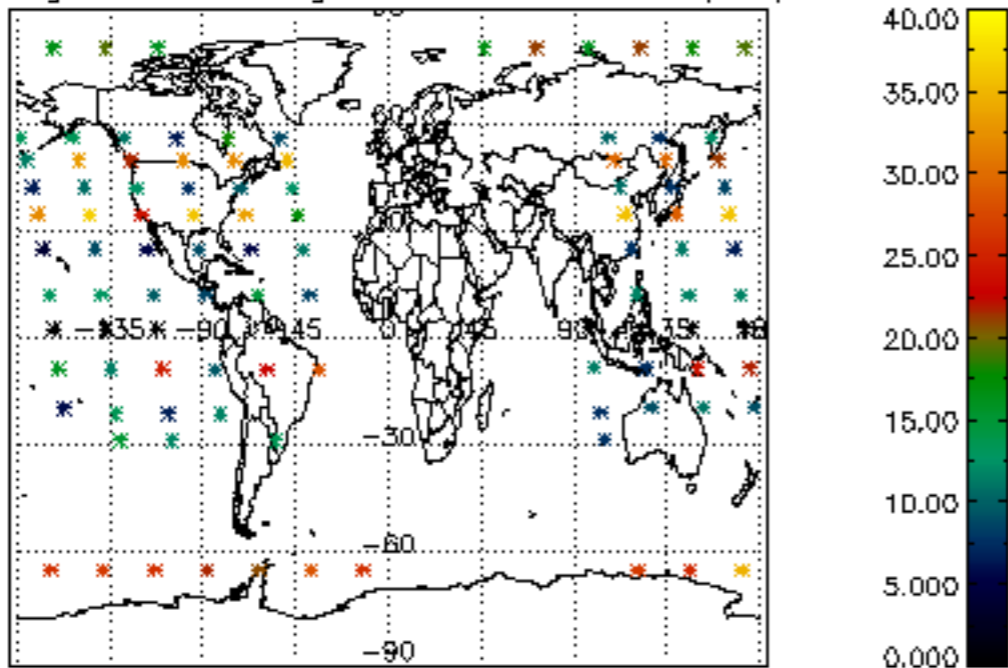
Percentage of cosmic ray hits per profile



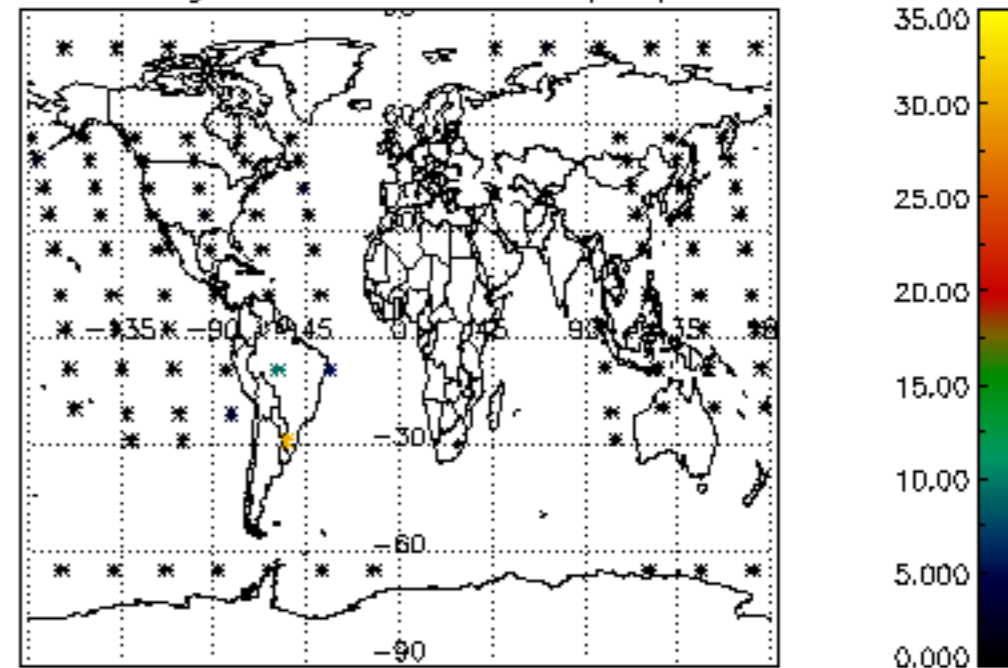
Percentage of datation errors per profile



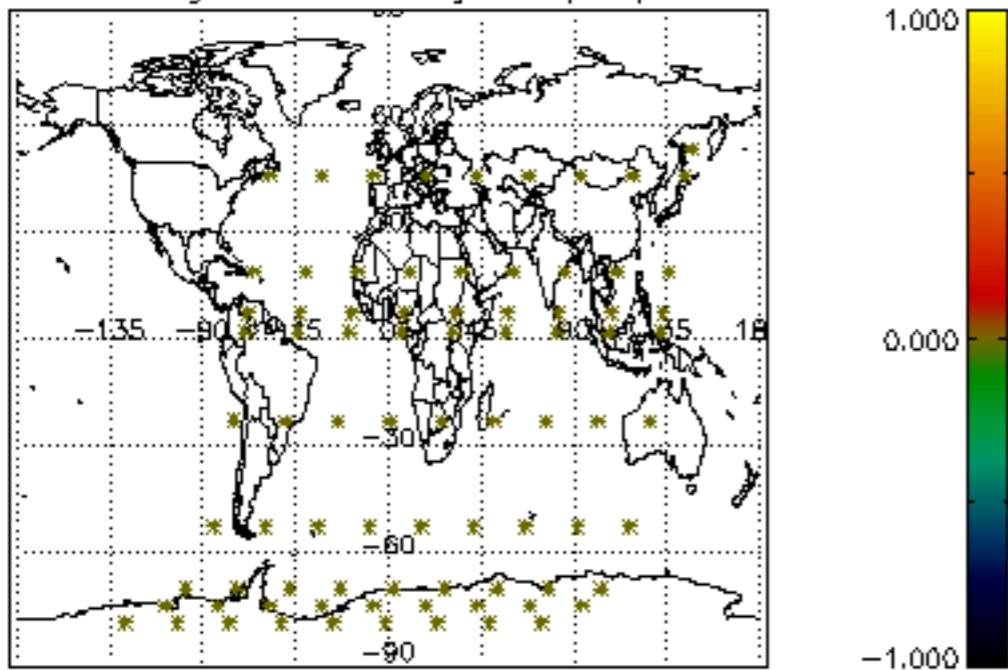
Percentage of star falling outside central band per profile



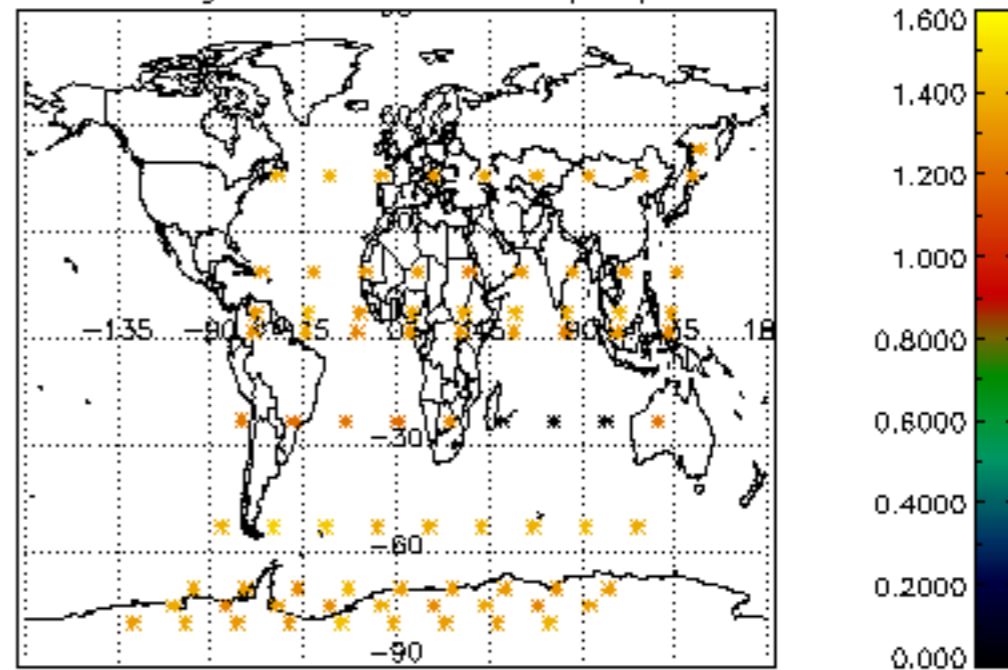
Percentage of saturation errors per profile



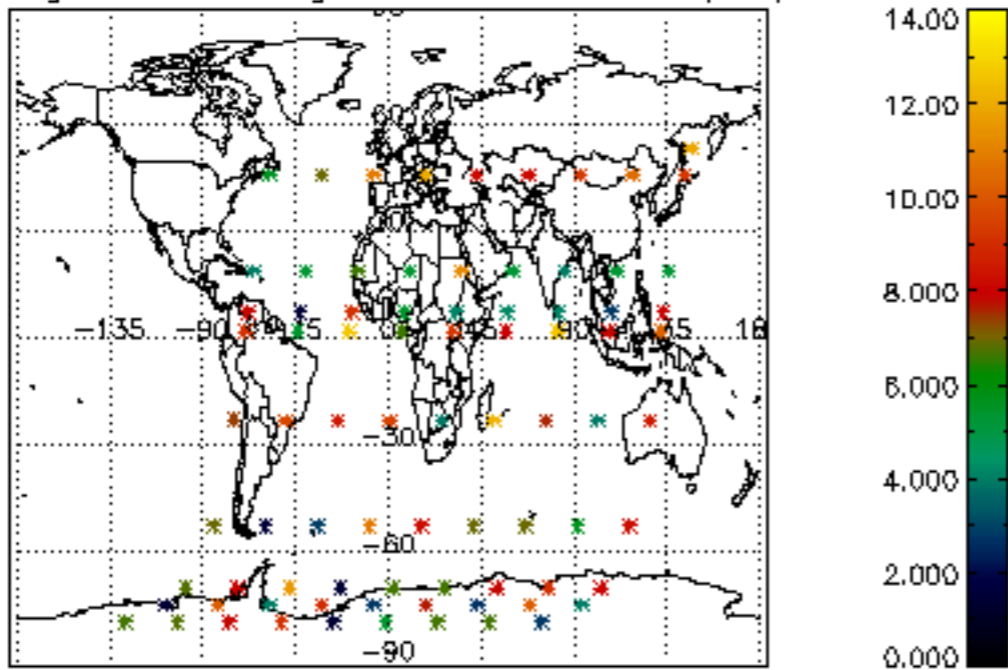
Percentage of cosmic ray hits per profile



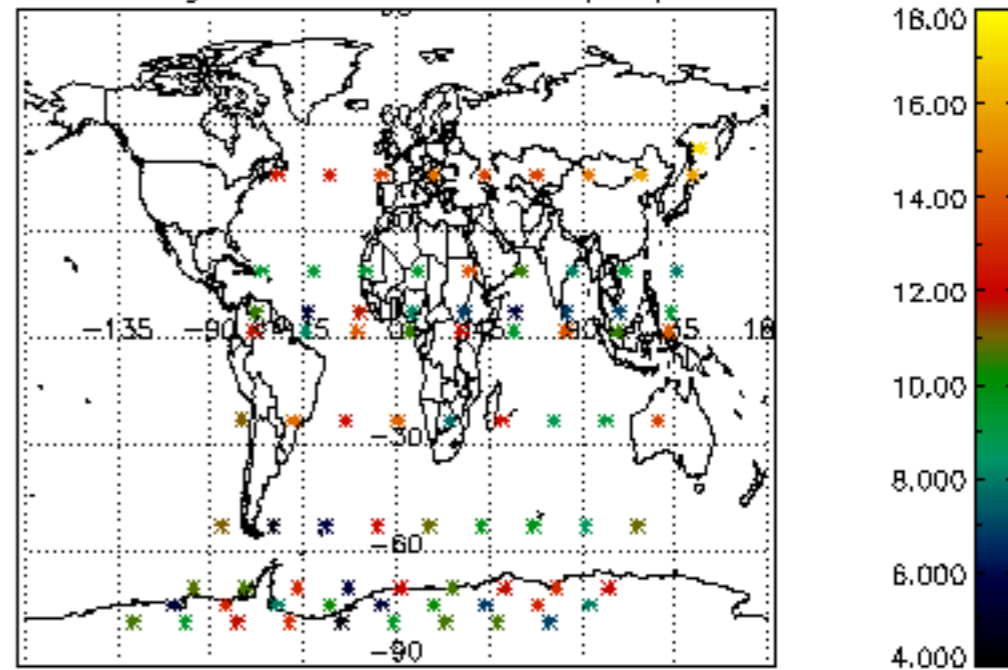
Percentage of datation errors per profile



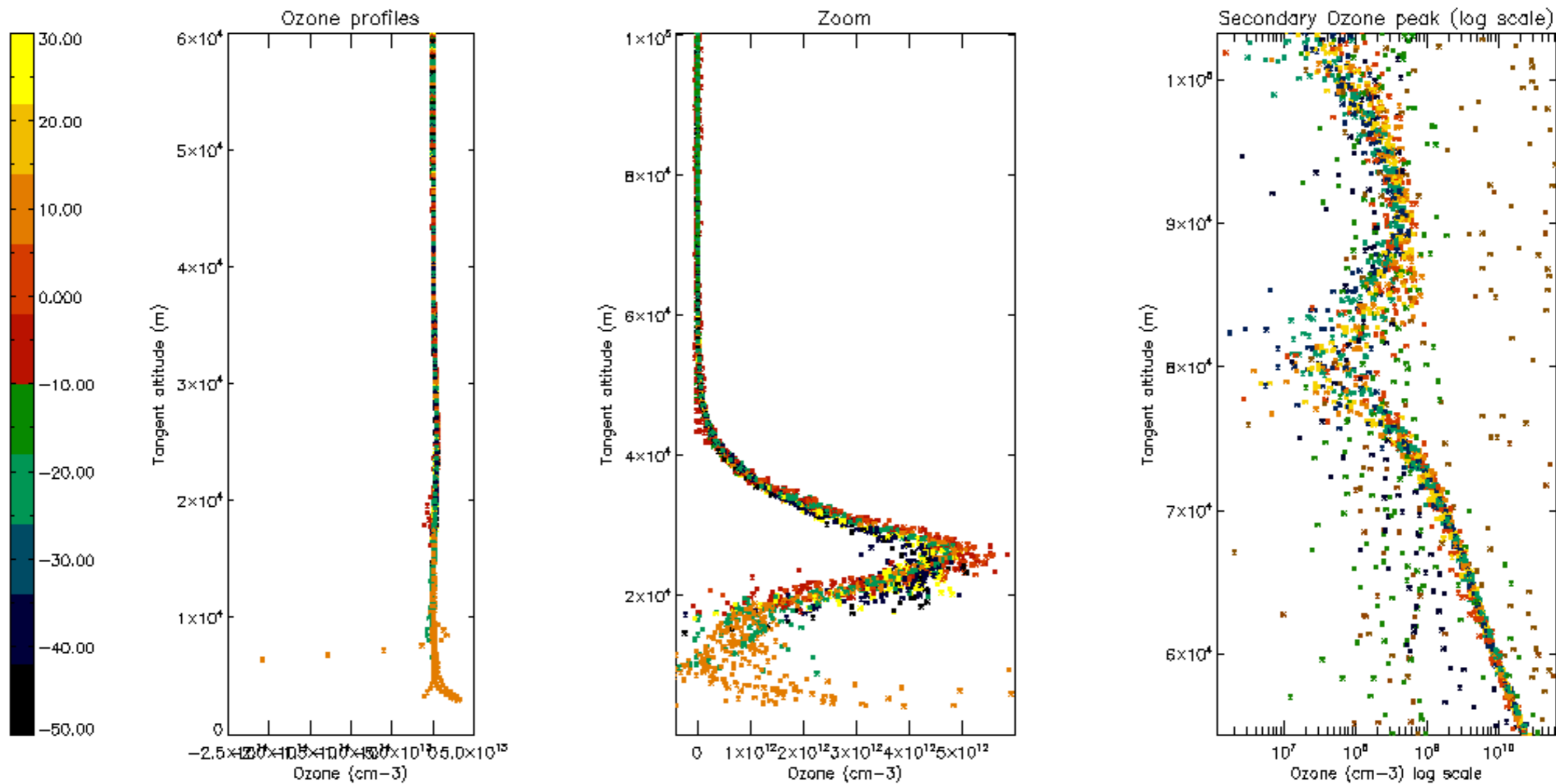
Percentage of star falling outside central band per profile

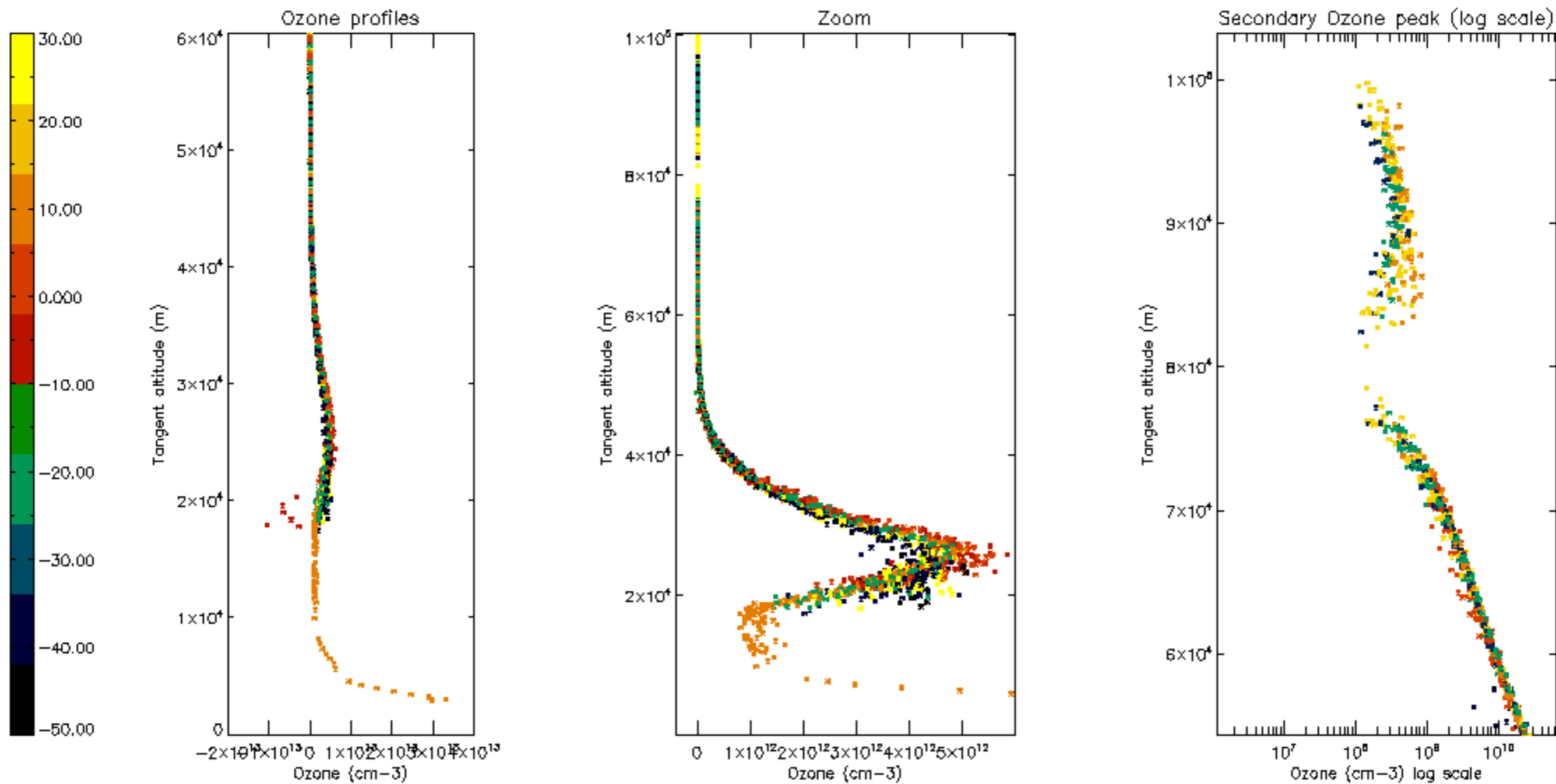


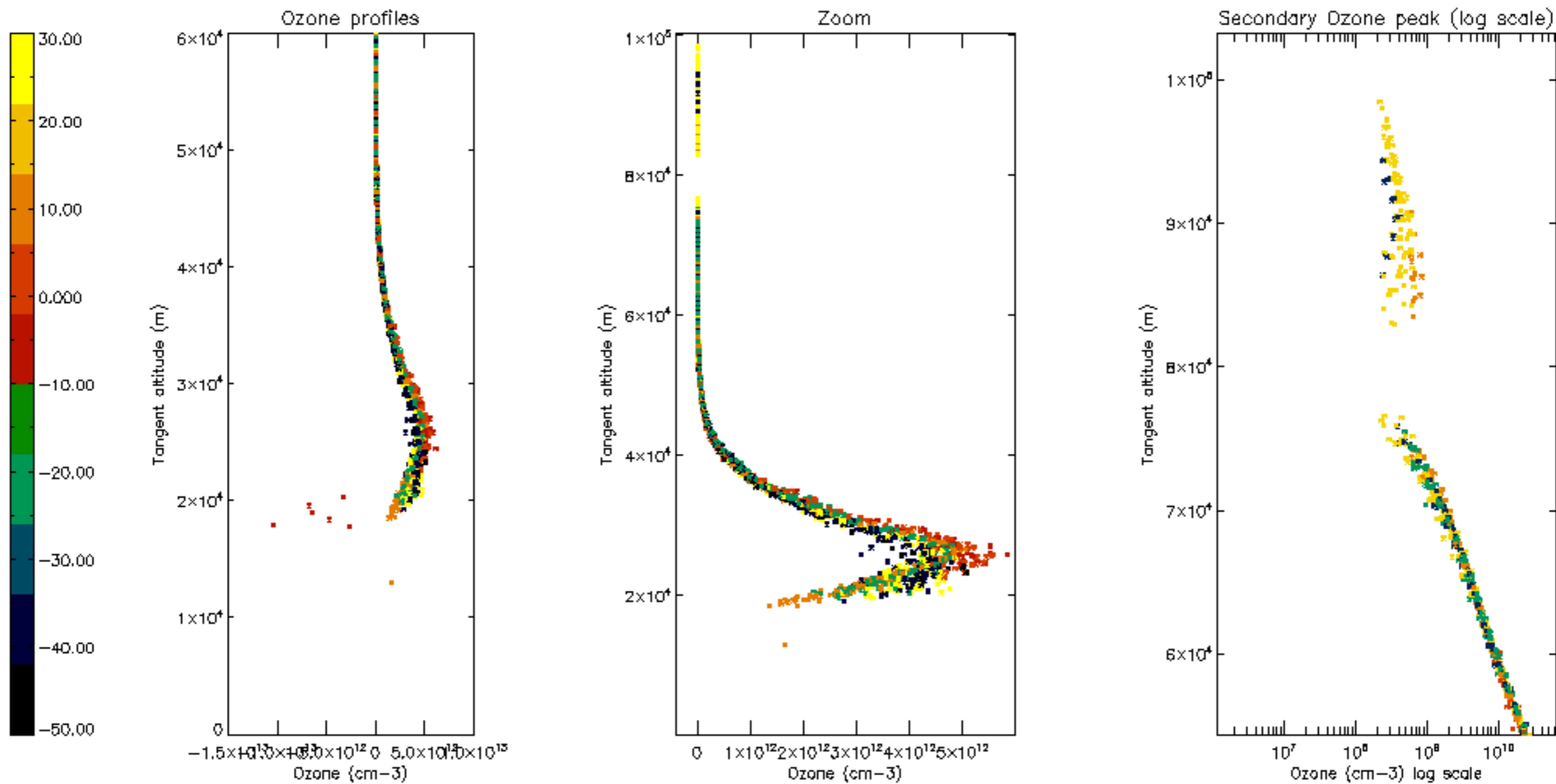
Percentage of saturation errors per profile

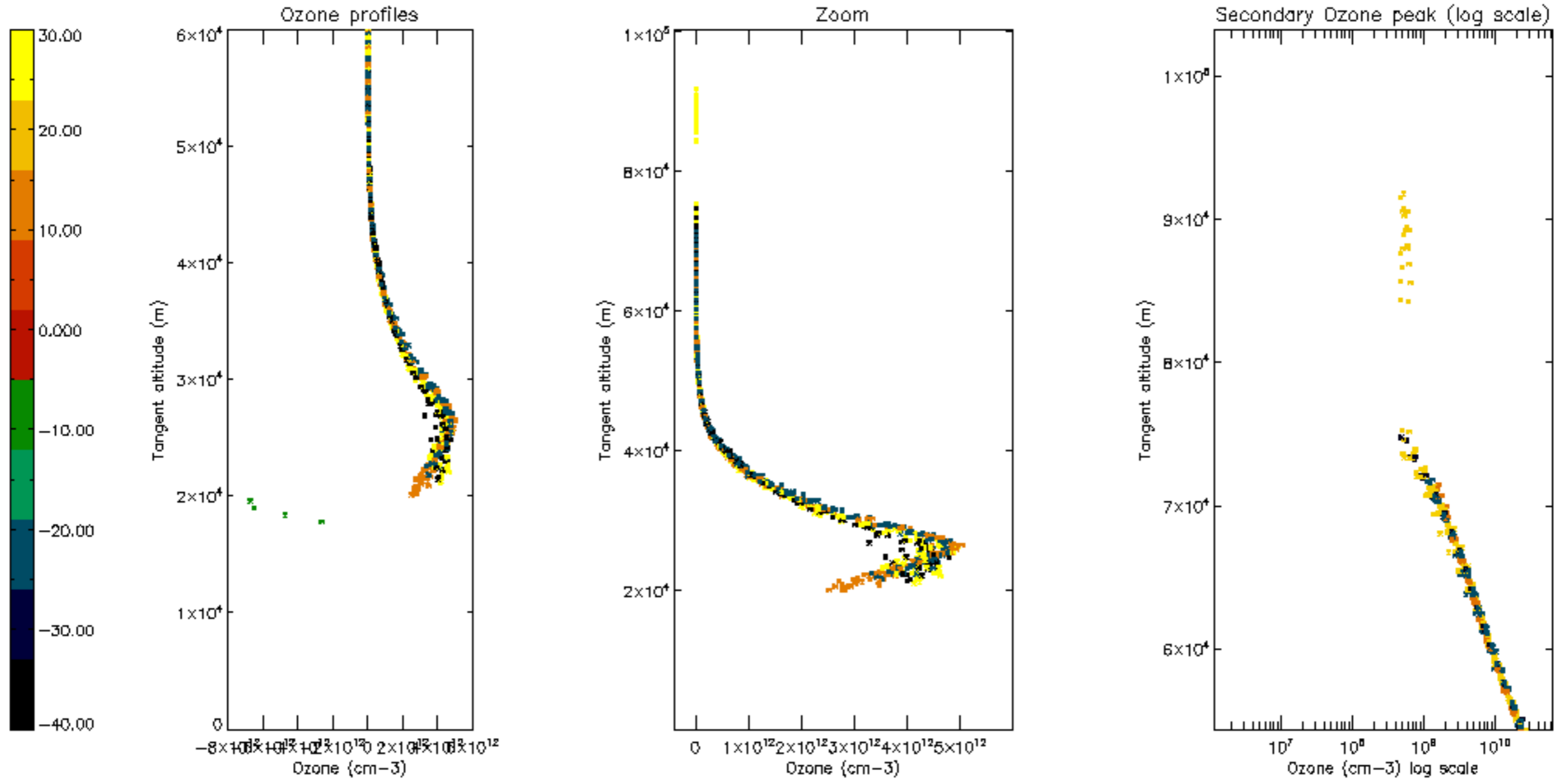


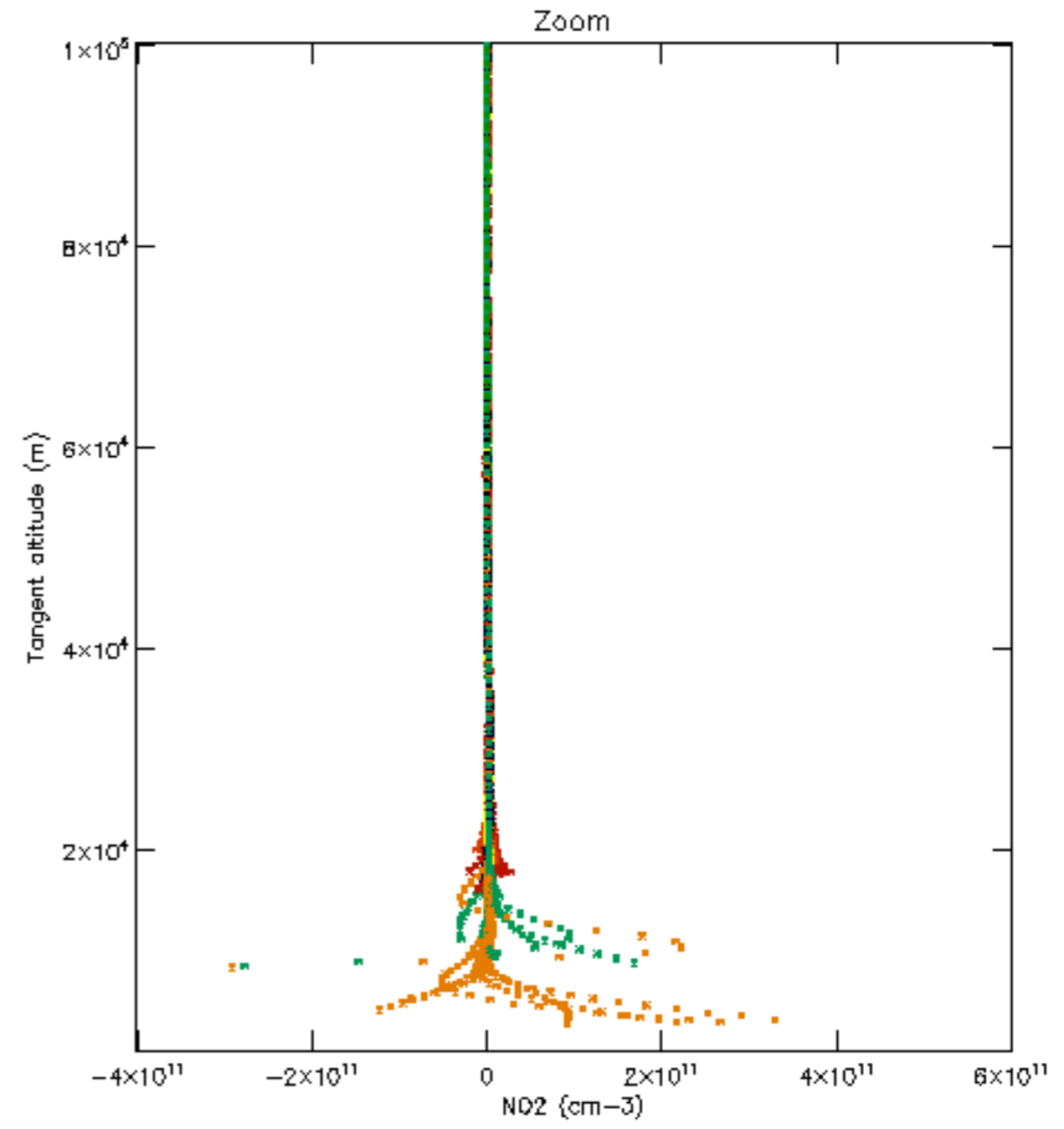
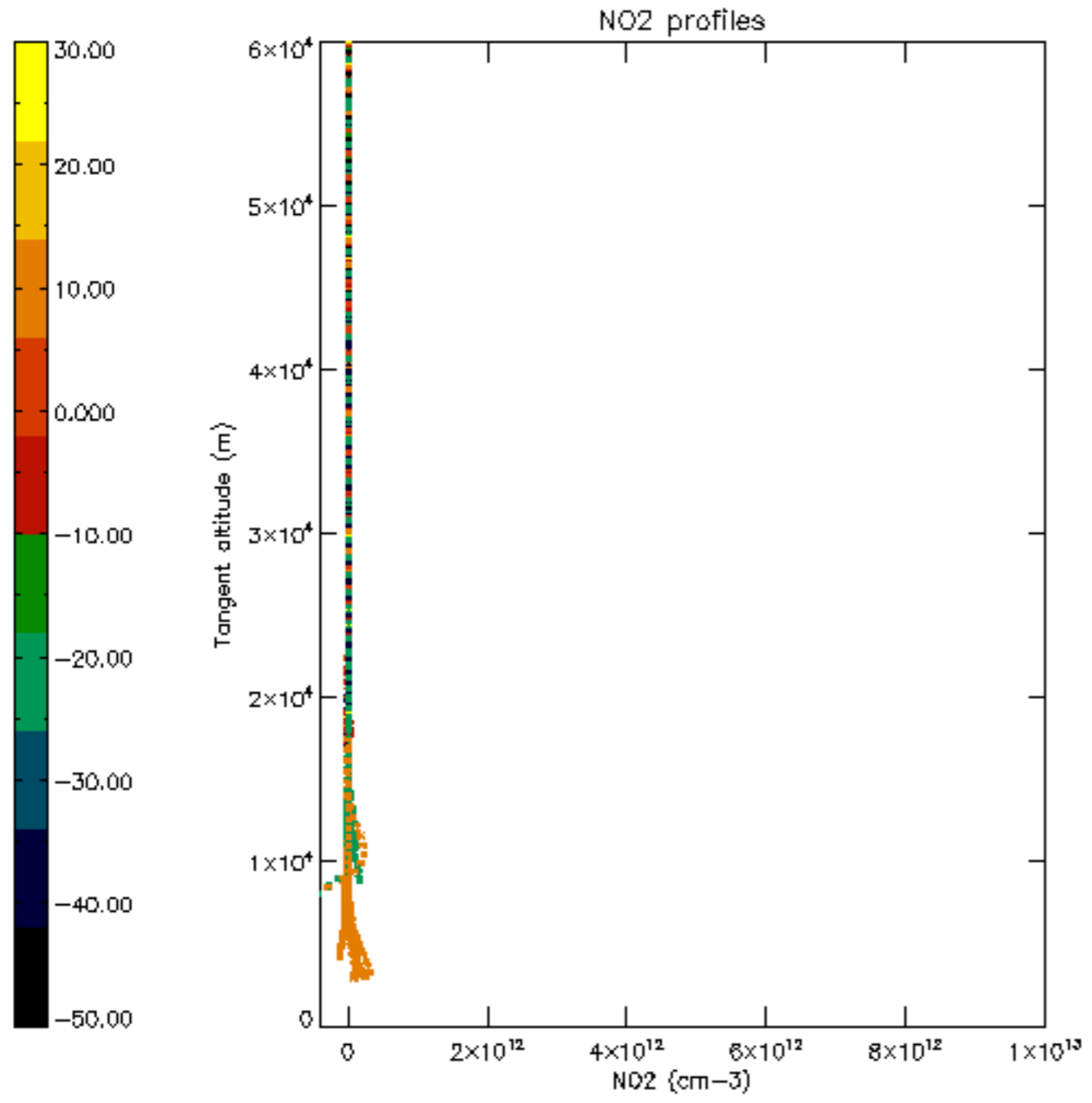


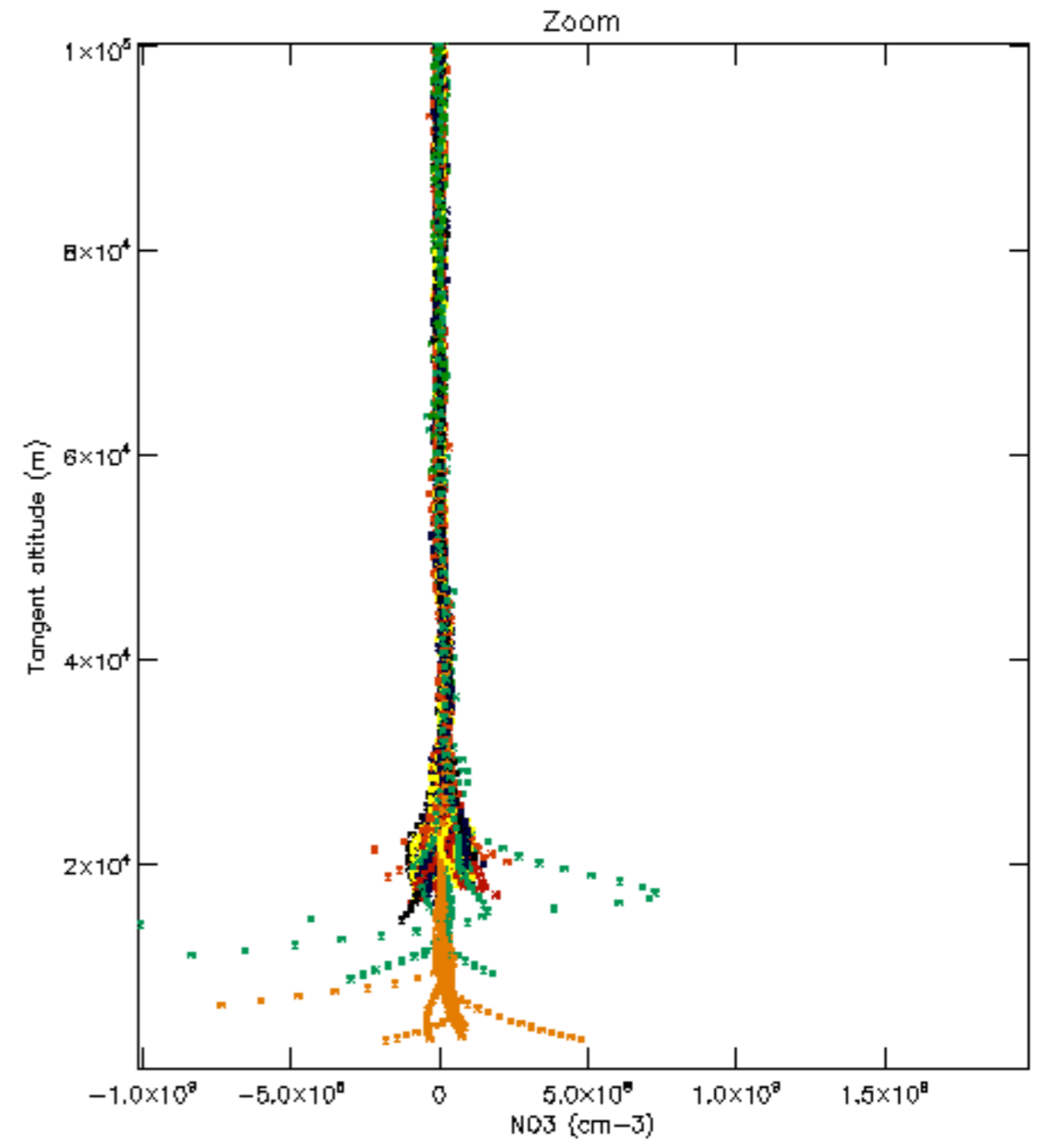
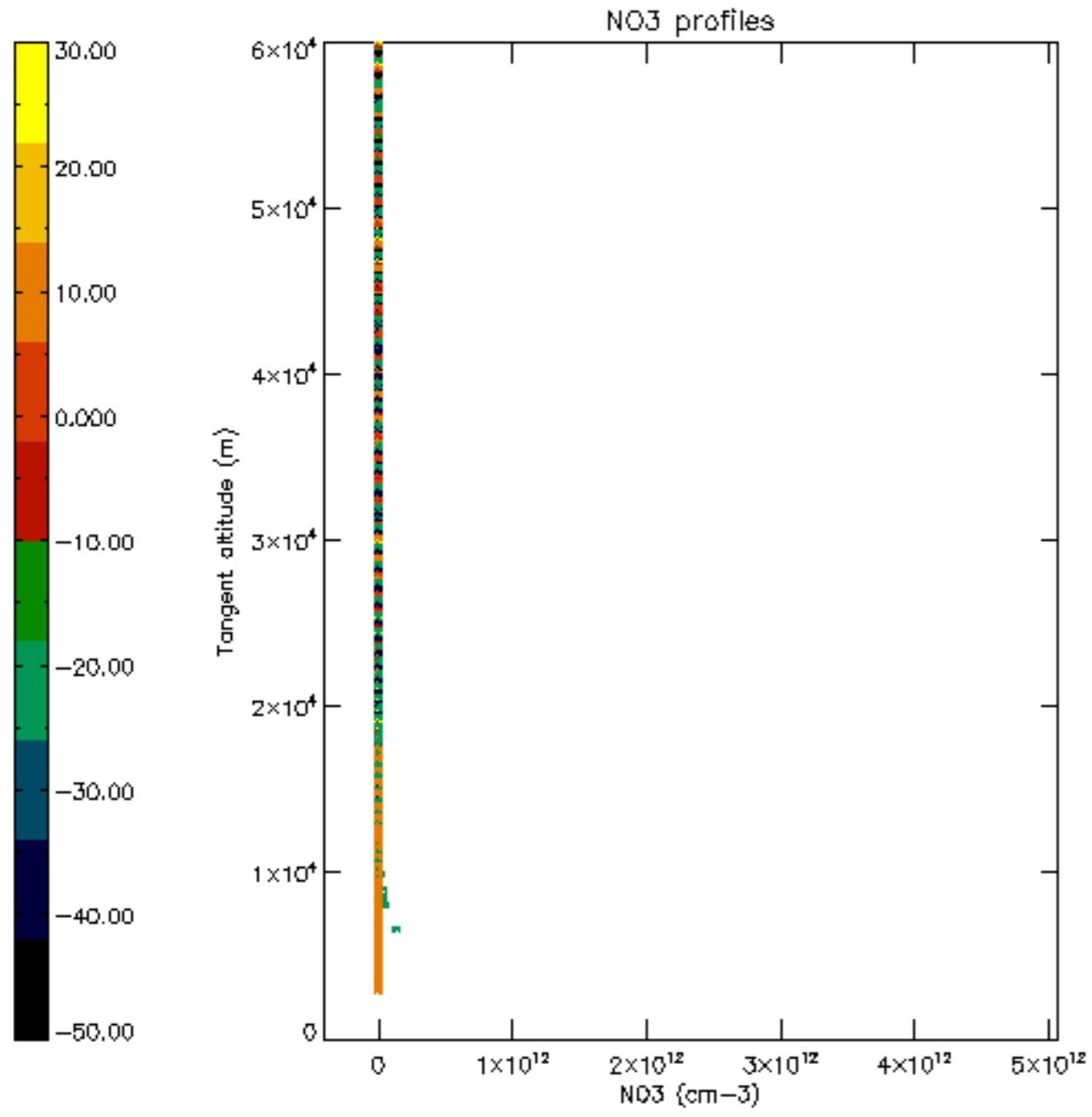


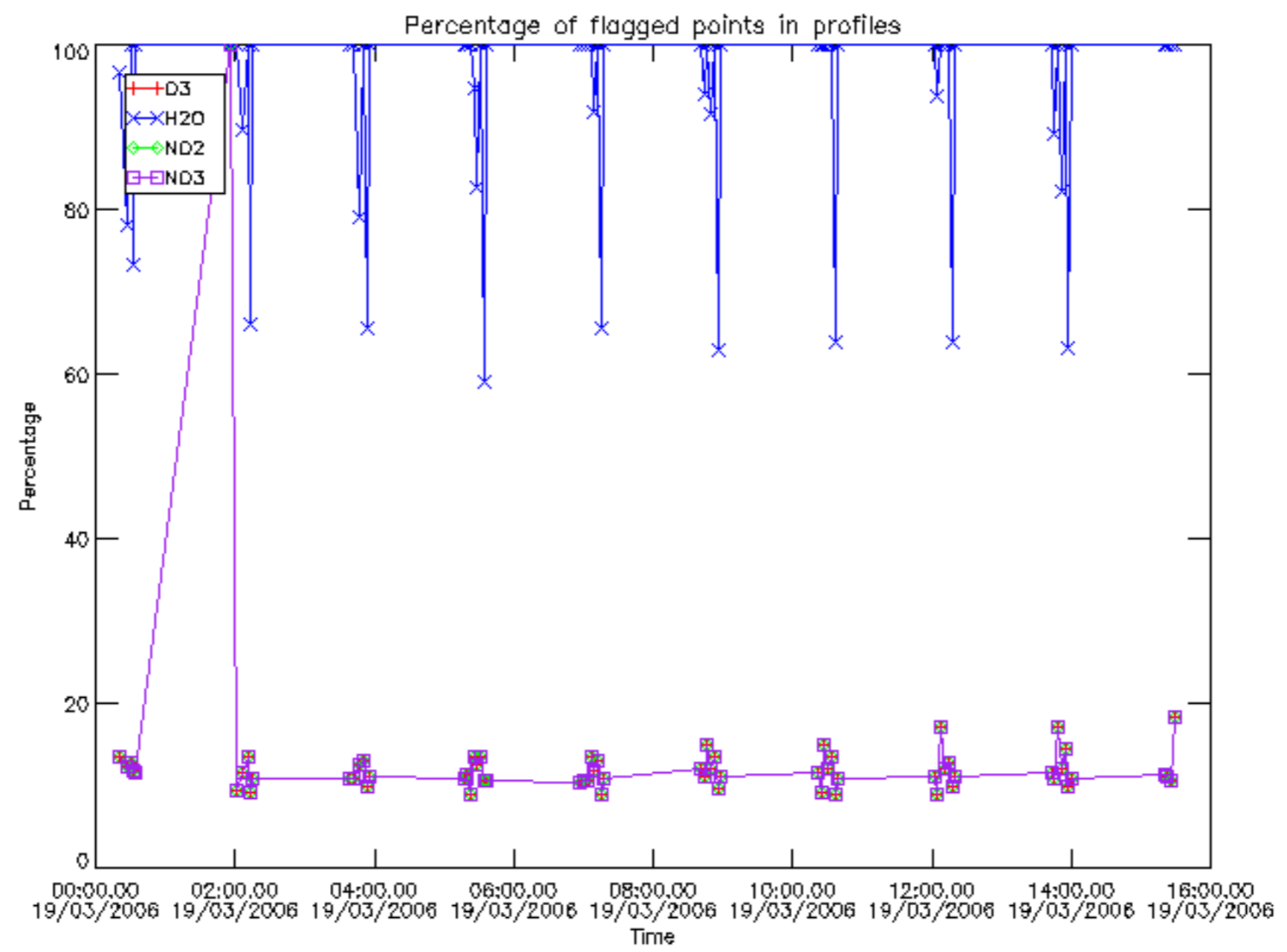




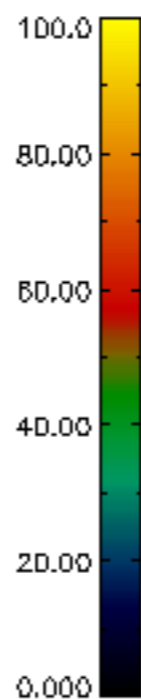
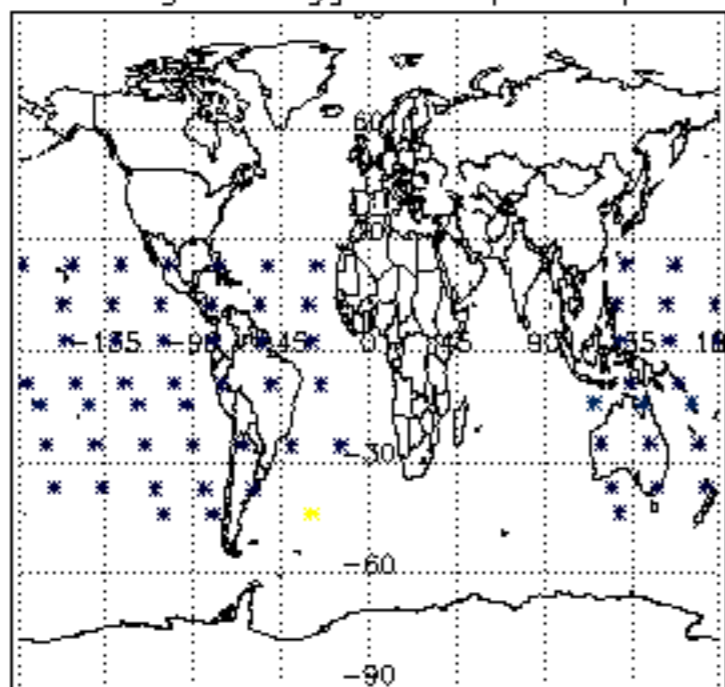




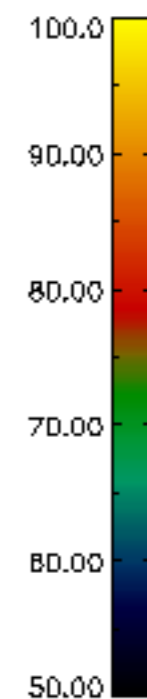
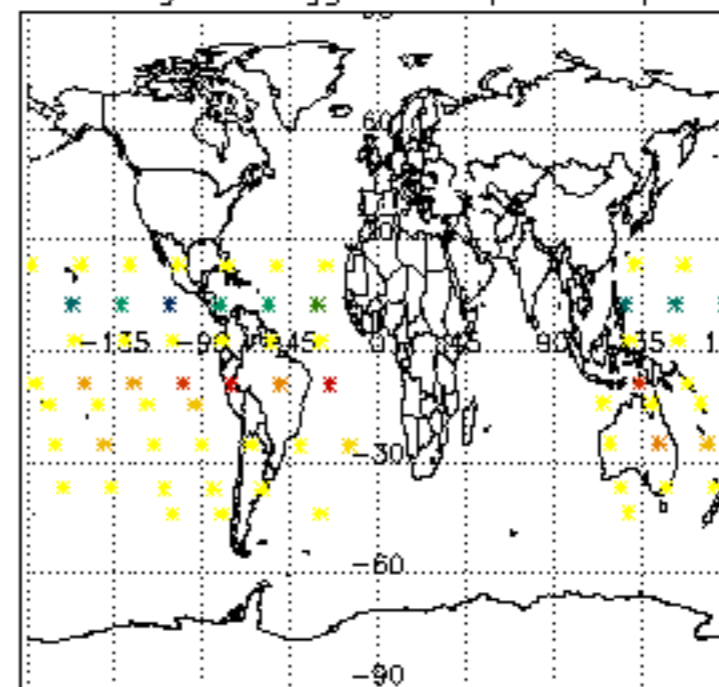




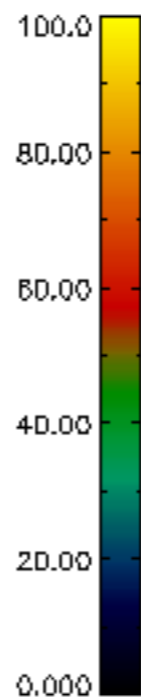
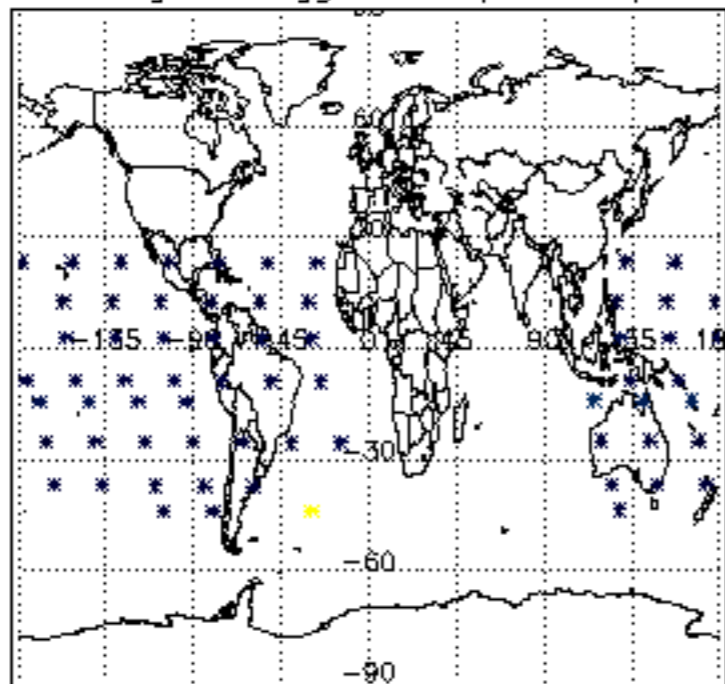
Percentage of flagged data per D3 profile



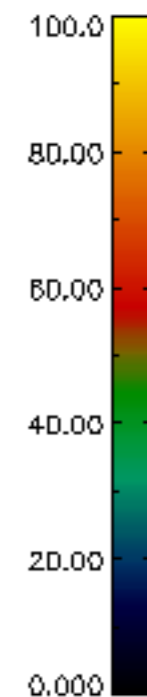
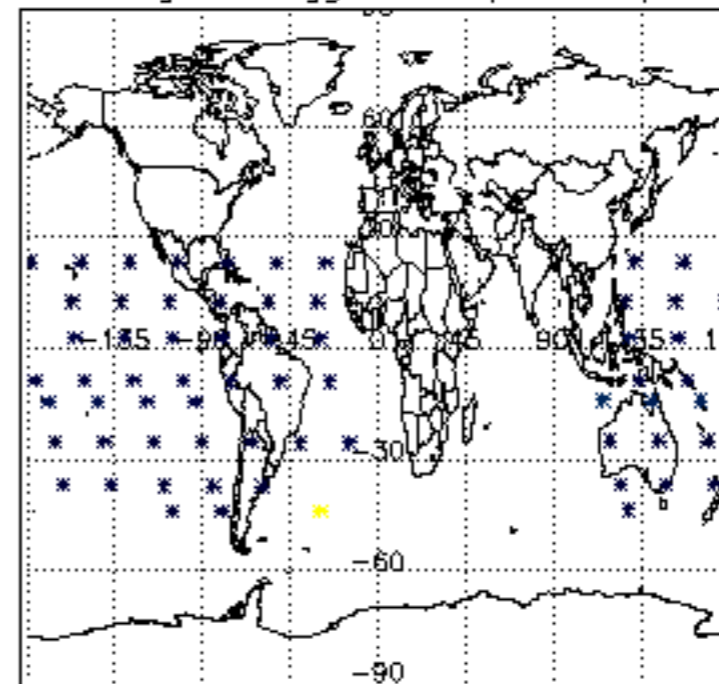
Percentage of flagged data per H2O profile



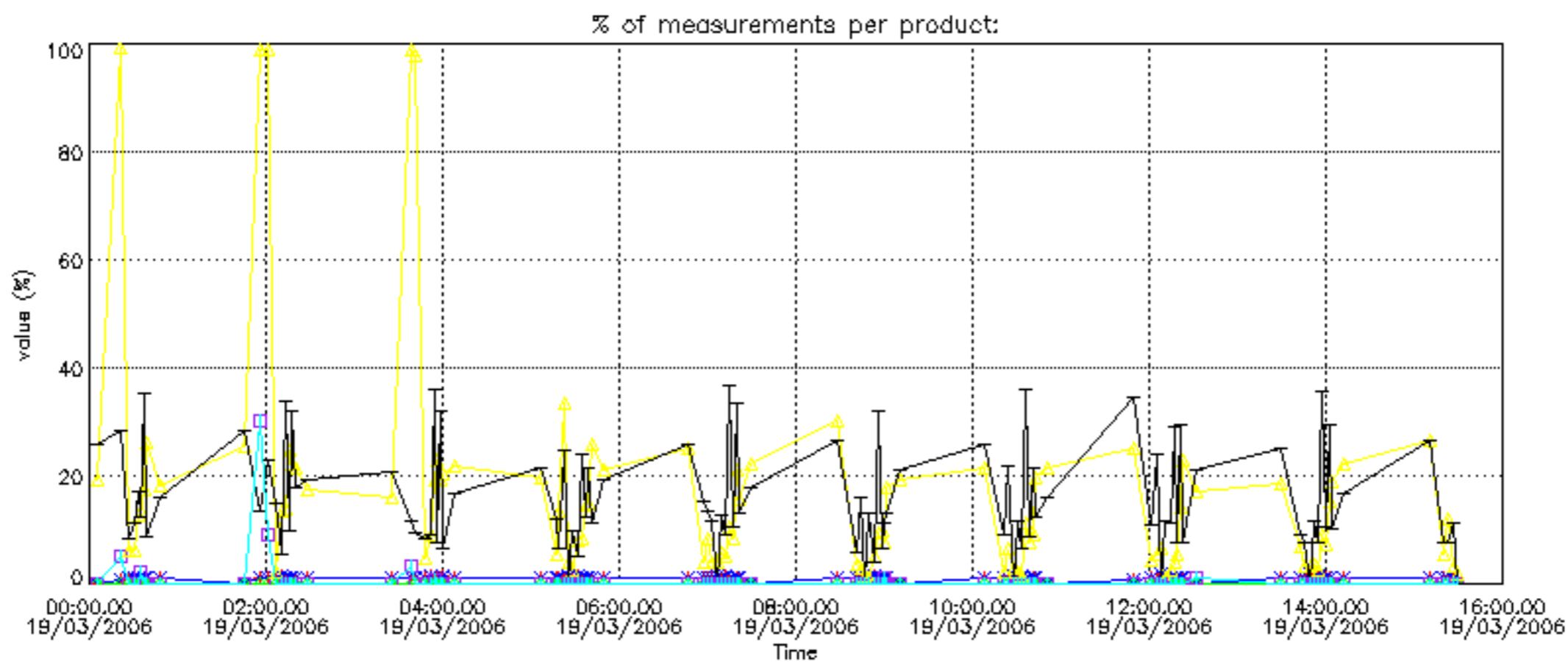
Percentage of flagged data per NO2 profile

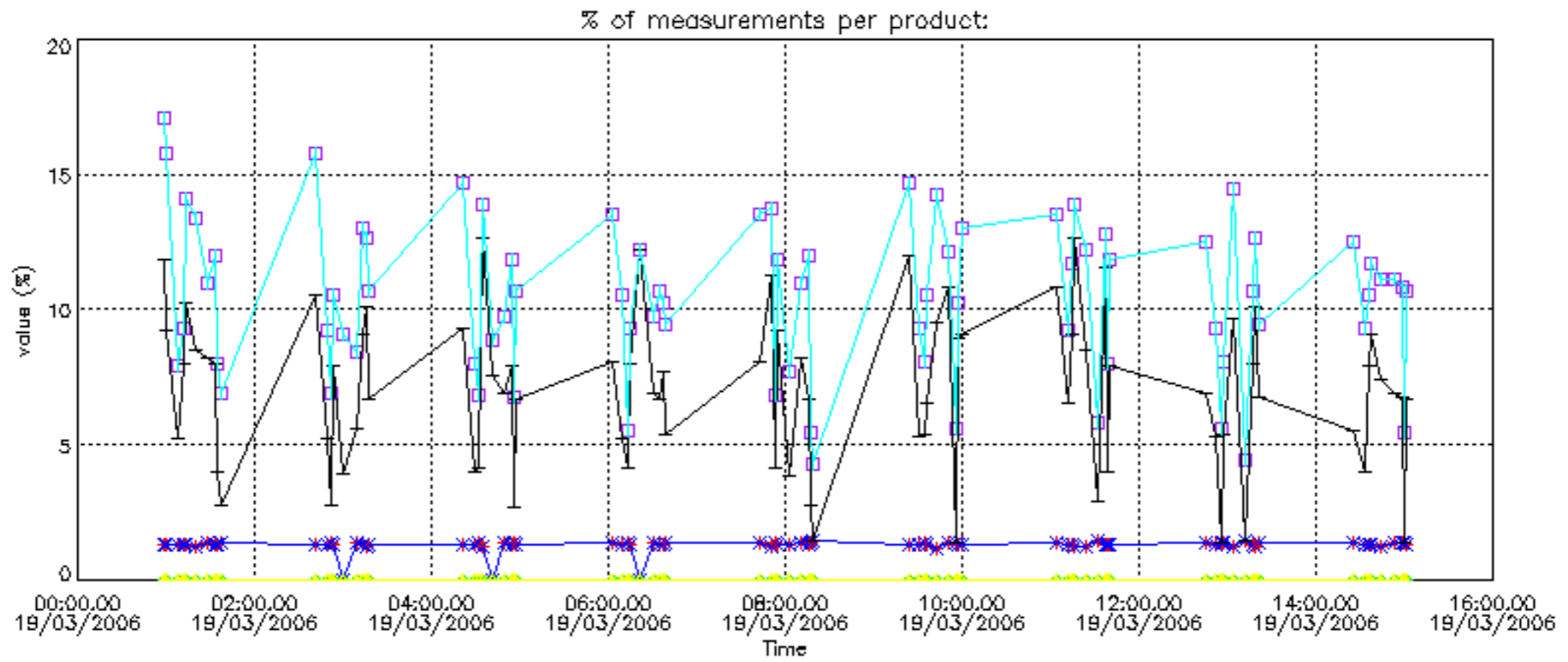


Percentage of flagged data per NO3 profile

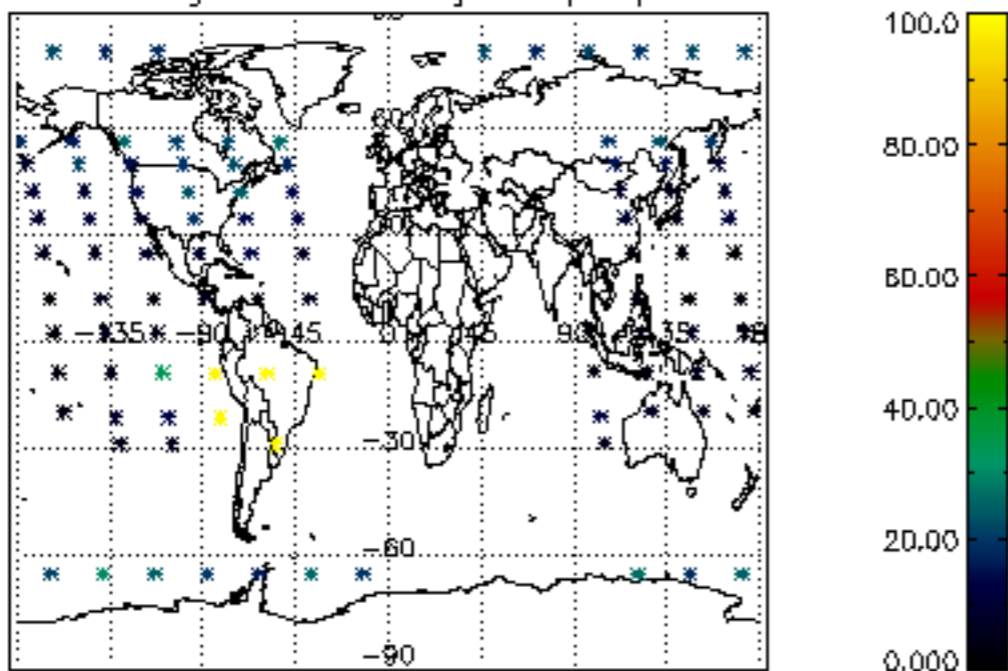




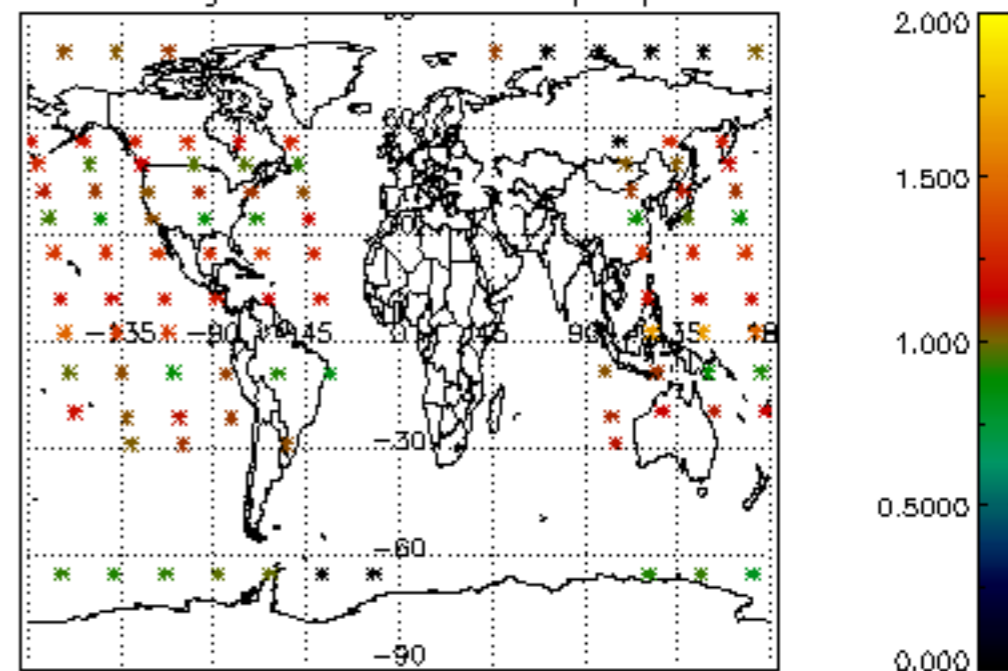




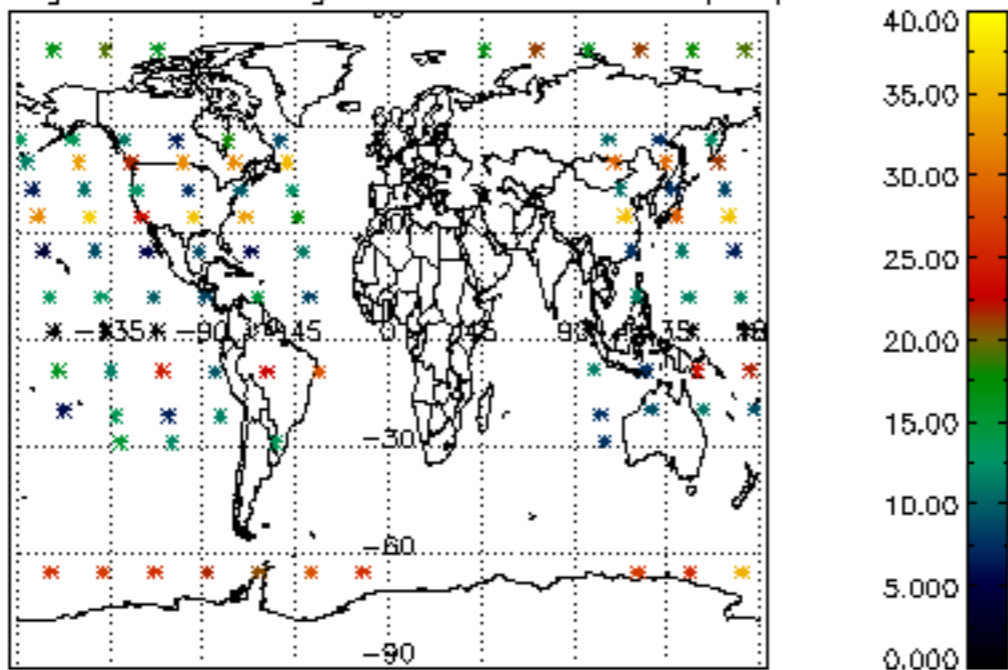
Percentage of cosmic ray hits per profile



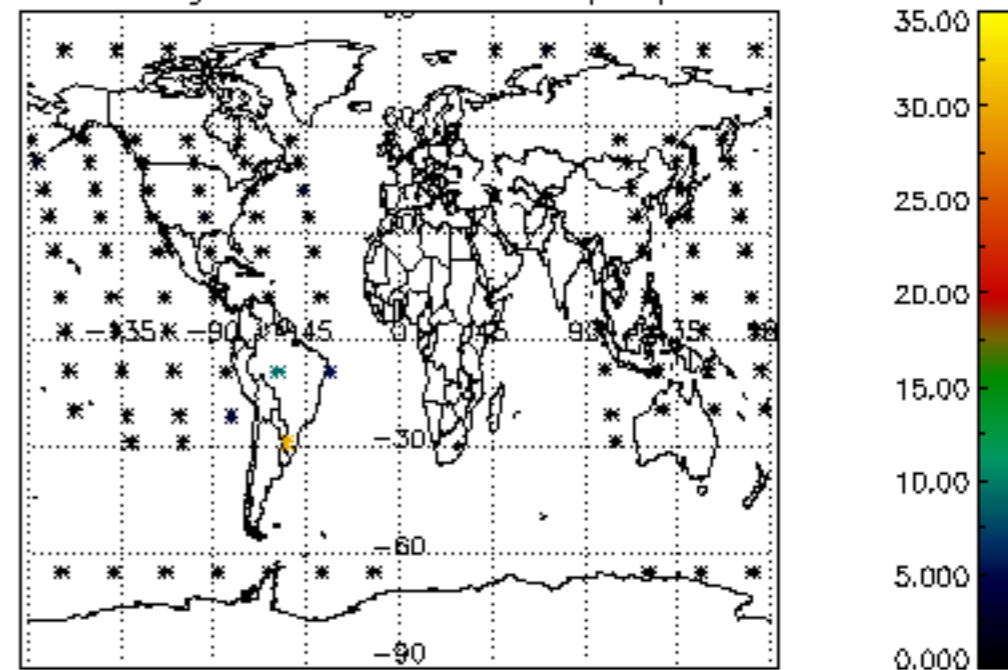
Percentage of datation errors per profile



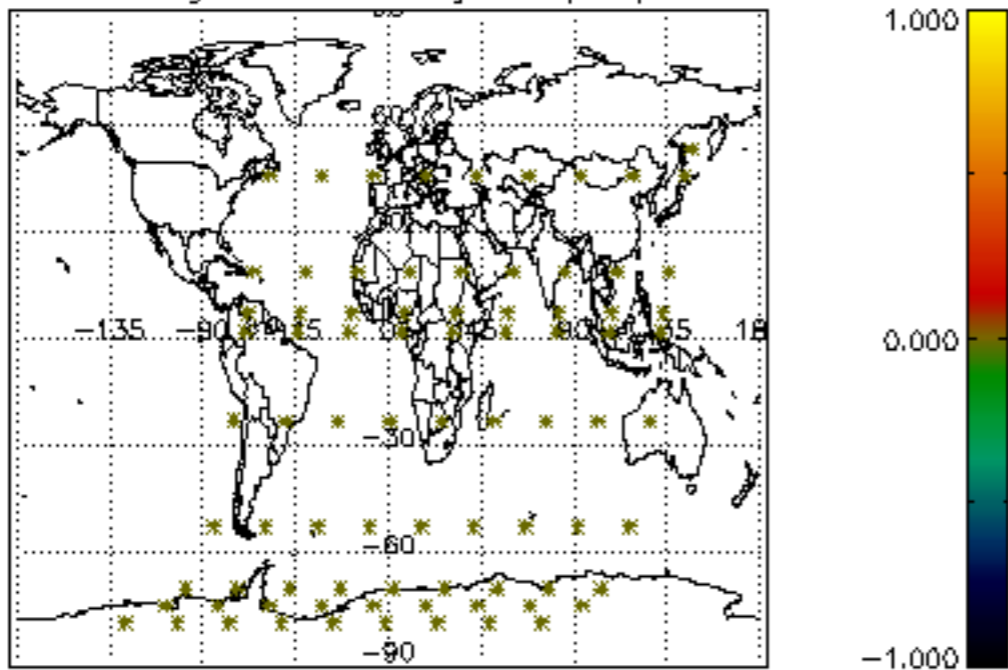
Percentage of star falling outside central band per profile



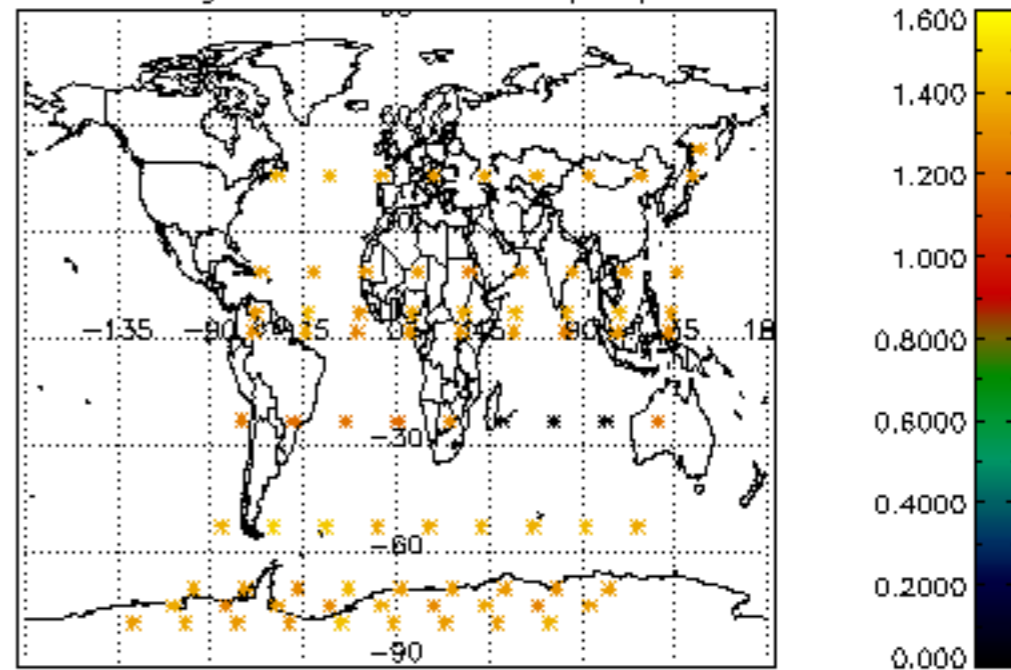
Percentage of saturation errors per profile



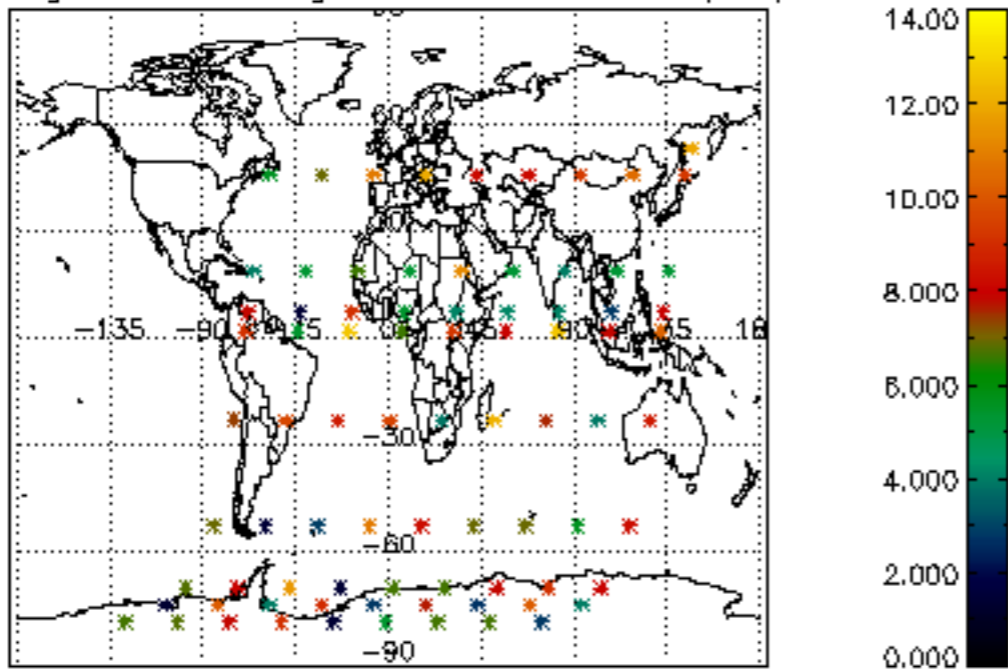
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

