

# 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	22APR2013 16:16:43
Data source version	GOMOS/6.01
Start time of products	01-03-2006 (01MAR2006 00:00:00)
Stop time of products	02-03-2006 (02MAR2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	271
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__2PRFIN20060301_000139_000000372045_00317_20912_7694.N1	01-MAR-2006 00:01:39	Dark	36.500	124	The Car	2.7640	30000.	73	20912	No
2	GOM_NL__2PRFIN20060301_000402_000000402045_00317_20912_7695.N1	01-MAR-2006 00:04:02	Straylight	39.500	71	Iot Car	2.2460	7700.0	79	20912	No
3	GOM_NL__2PRFIN20060301_000522_000000392045_00317_20912_7696.N1	01-MAR-2006 00:05:22	Straylight	38.500	113	Mu Vel	2.6920	5000.0	77	20912	No
4	GOM_NL__2PRFIN20060301_000827_000000442045_00317_20912_7697.N1	01-MAR-2006 00:08:27	Straylight	44.000	65	Lam Vel	2.2040	4400.0	88	20912	No
5	GOM_NL__2PRFIN20060301_001757_000000402045_00317_20912_7698.N1	01-MAR-2006 00:17:57	Twilight_stray	39.500	48	30Alp Hya	1.9770	4100.0	79	20912	No
6	GOM_NL__2PRFIN20060301_002908_000000372045_00317_20912_7699.N1	01-MAR-2006 00:29:08	Bright	36.500	17	78Bet Gem	1.1610	4500.0	73	20912	No
7	GOM_NL__2PRFIN20060301_004557_000000332045_00317_20912_7700.N1	01-MAR-2006 00:45:57	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	20912	No
8	GOM_NL__2PRFIN20060301_005327_000000352045_00317_20912_7701.N1	01-MAR-2006 00:53:27	Bright	34.500	89	5Alp Cep	2.4510	8000.0	69	20912	No
9	GOM_NL__2PRFIN20060301_005832_000000362045_00317_20912_7702.N1	01-MAR-2006 00:58:32	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	20912	No
10	GOM_NL__2PRFIN20060301_010006_000000332045_00317_20912_7703.N1	01-MAR-2006 01:00:06	Bright	32.500	66	37Gam Cyg	2.2080	5900.0	65	20912	No
11	GOM_NL__2PRFIN20060301_010139_000000332045_00317_20912_7704.N1	01-MAR-2006 01:01:39	Bright	32.500	92	53Eps Cyg	2.5000	4500.0	65	20912	No
12	GOM_NL__2PRFIN20060301_010854_000000382045_00317_20912_7705.N1	01-MAR-2006 01:08:54	Bright	37.500	118	50Gam Aql	2.7180	4600.0	75	20912	No
13	GOM_NL__2PRFIN20060301_011828_000000412045_00317_20912_7706.N1	01-MAR-2006 01:18:28	Dark	41.000	155	41Pi Sgr	2.9000	6600.0	82	20912	No
14	GOM_NL__2PRFIN20060301_012017_000000422045_00317_20912_7707.N1	01-MAR-2006 01:20:17	Dark	42.000	57	34Sig Sgr	2.0660	26000.	84	20912	No
15	GOM_NL__2PRFIN20060301_012958_000000402045_00318_20913_7564.N1	01-MAR-2006 01:29:58	Dark	39.500	141	Bet Ara	2.8400	4600.0	79	20913	No
16	GOM_NL__2PRFIN20060301_013357_000000412045_00318_20913_7565.N1	01-MAR-2006 01:33:57	Dark	40.500	134	Bet TrA	2.8100	6600.0	81	20913	No
17	GOM_NL__2PRFIN20060301_013514_000000352045_00318_20913_7566.N1	01-MAR-2006 01:35:14	Dark	35.000	145	Gam TrA	2.8720	10600.	70	20913	No
18	GOM_NL__2PRFIN20060301_013632_000000282045_00318_20913_7567.N1	01-MAR-2006 01:36:32	Dark	28.000	4	Alp1Cen	-0.010000	5800.0	56	20913	No
19	GOM_NL__2PRFIN20060301_013909_000000382045_00318_20913_7568.N1	01-MAR-2006 01:39:09	Dark	37.500	112	Alp Mus	2.6880	26000.	75	20913	No
20	GOM_NL__2PRFIN20060301_014026_000000462045_00318_20913_7569.N1	01-MAR-2006 01:40:26	Dark	46.000	12	Alp1Cru	0.77500	30000.	92	20913	No
21	GOM_NL__2PRFIN20060301_014216_000000372045_00318_20913_7570.N1	01-MAR-2006 01:42:16	Dark	36.500	124	The Car	2.7640	30000.	73	20913	No
22	GOM_NL__2PRFIN20060301_014438_000000362045_00318_20913_7571.N1	01-MAR-2006 01:44:38	Straylight	36.000	71	Iot Car	2.2460	7700.0	72	20913	No
23	GOM_NL__2PRFIN20060301_014558_000000392045_00318_20913_7572.N1	01-MAR-2006 01:45:58	Straylight	39.000	113	Mu Vel	2.6920	5000.0	78	20913	No
24	GOM_NL__2PRFIN20060301_014903_000000462045_00318_20913_7573.N1	01-MAR-2006 01:49:03	Straylight	45.500	65	Lam Vel	2.2040	4400.0	91	20913	No
25	GOM_NL__2PRFIN20060301_015833_000000432045_00318_20913_7574.N1	01-MAR-2006 01:58:33	Twilight_stray	43.000	48	30Alp Hya	1.9770	4100.0	86	20913	No
26	GOM_NL__2PRFIN20060301_020944_000000392045_00318_20913_7575.N1	01-MAR-2006 02:09:44	Bright	38.500	17	78Bet Gem	1.1610	4500.0	77	20913	No
27	GOM_NL__2PRFIN20060301_022633_000000342045_00318_20913_7576.N1	01-MAR-2006 02:26:33	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	20913	No
28	GOM_NL__2PRFIN20060301_023403_000000342045_00318_20913_7577.N1	01-MAR-2006 02:34:03	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	20913	No
29	GOM_NL__2PRFIN20060301_023908_000000362045_00318_20913_7578.N1	01-MAR-2006 02:39:08	Bright	35.500	19	50Alp Cyg	1.2460	10500.	71	20913	No
30	GOM_NL__2PRFIN20060301_024042_000000362045_00318_20913_7579.N1	01-MAR-2006 02:40:42	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	20913	No
31	GOM_NL__2PRFIN20060301_024215_000000342045_00318_20913_7580.N1	01-MAR-2006 02:42:15	Bright	34.000	92	53Eps Cyg	2.5000	4500.0	68	20913	No
32	GOM_NL__2PRFIN20060301_024930_000000382045_00318_20913_7581.N1	01-MAR-2006 02:49:30	Bright	38.000	118	50Gam Aql	2.7180	4600.0	76	20913	No
33	GOM_NL__2PRFIN20060301_025904_000000432045_00318_20913_7582.N1	01-MAR-2006 02:59:04	Dark	43.000	155	41Pi Sgr	2.9000	6600.0	86	20913	No
34	GOM_NL__2PRFIN20060301_030053_000000392045_00318_20913_7583.N1	01-MAR-2006 03:00:53	Dark	39.000	57	34Sig Sgr	2.0660	26000.	78	20913	No
35	GOM_NL__2PRFIN20060301_031035_000000402045_00319_20914_7564.N1	01-MAR-2006 03:10:35	Dark	39.500	141	Bet Ara	2.8400	4600.0	79	20914	No
36	GOM_NL__2PRFIN20060301_031433_000000372045_00319_20914_7565.N1	01-MAR-2006 03:14:33	Dark	36.500	134	Bet TrA	2.8100	6600.0	73	20914	No
37	GOM_NL__2PRFIN20060301_031551_000000362045_00319_20914_7566.N1	01-MAR-2006 03:15:51	Dark	36.000	145	Gam TrA	2.8720	10600.	72	20914	No
38	GOM_NL__2PRFIN20060301_031708_000000282045_00319_20914_7567.N1	01-MAR-2006 03:17:08	Dark	28.000	4	Alp1Cen	-0.010000	5800.0	56	20914	No
39	GOM_NL__2PRFIN20060301_031946_000000372045_00319_20914_7568.N1	01-MAR-2006 03:19:46	Dark	37.000	112	Alp Mus	2.6880	26000.	74	20914	No
40	GOM_NL__2PRFIN20060301_032102_000000482045_00319_20914_7569.N1	01-MAR-2006 03:21:02	Dark	48.000	12	Alp1Cru	0.77500	30000.	96	20914	No
41	GOM_NL__2PRFIN20060301_032252_000000362045_00319_20914_7570.N1	01-MAR-2006 03:22:52	Dark	35.500	124	The Car	2.7640	30000.	71	20914	No
42	GOM_NL__2PRFIN20060301_032514_000000362045_00319_20914_7571.N1	01-MAR-2006 03:25:14	Straylight	35.500	71	Iot Car	2.2460	7700.0	71	20914	No

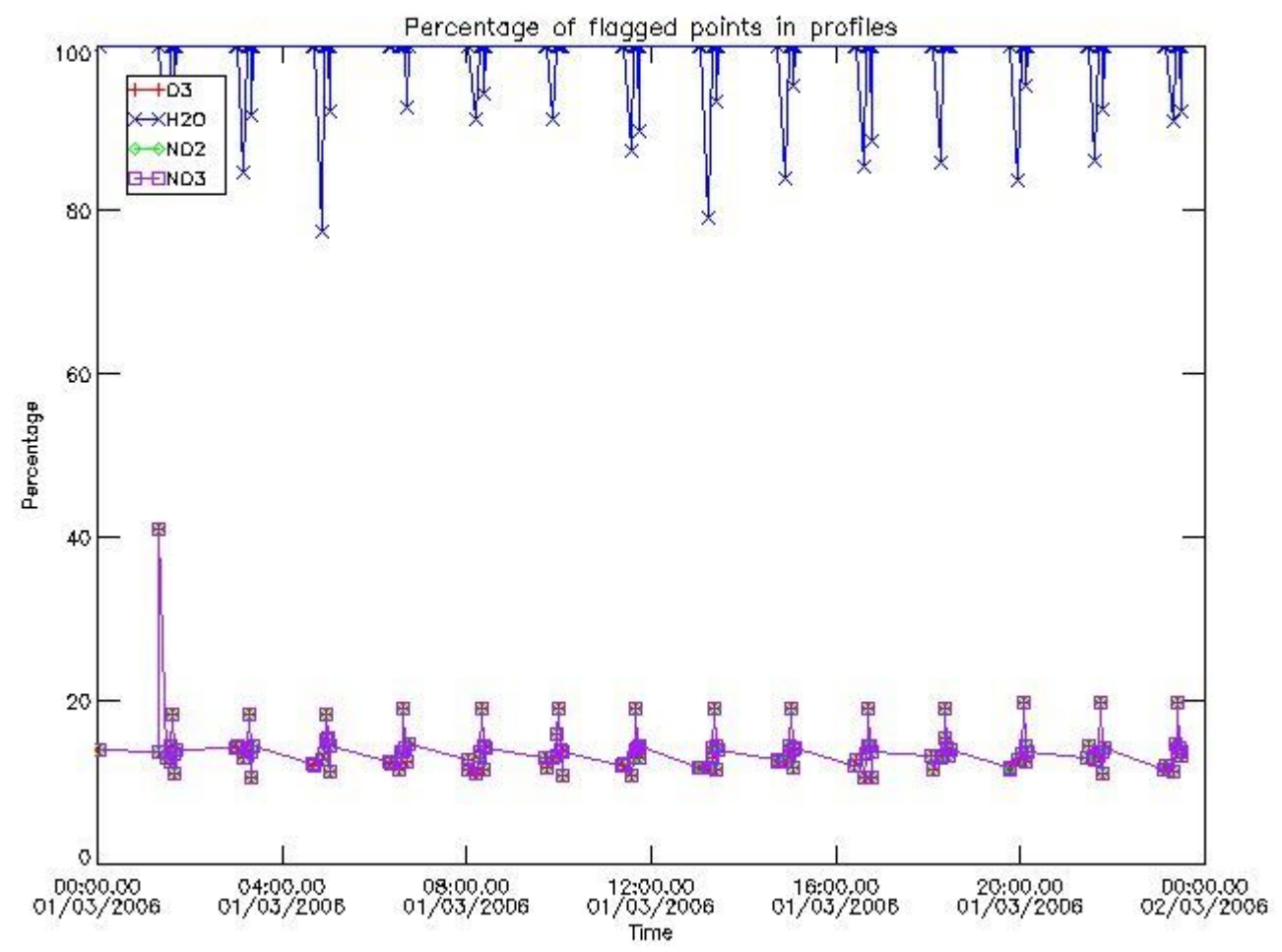






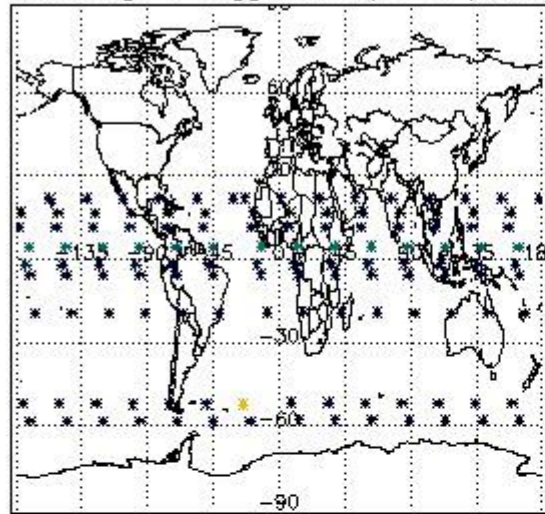


3.1 Plot quality information per product (time dependant)

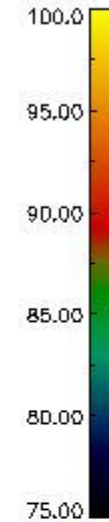
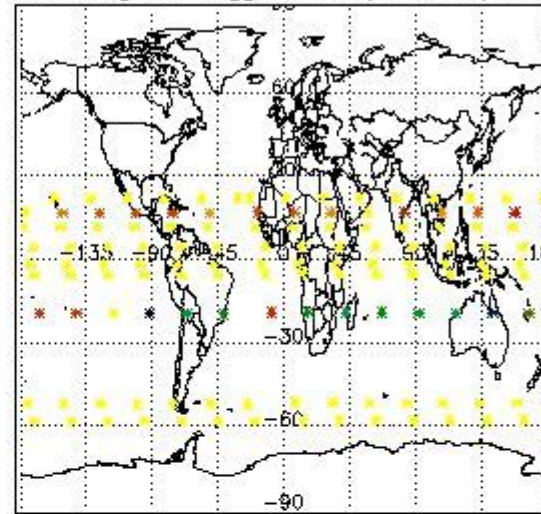


3.2 Plot quality information per product (world map)

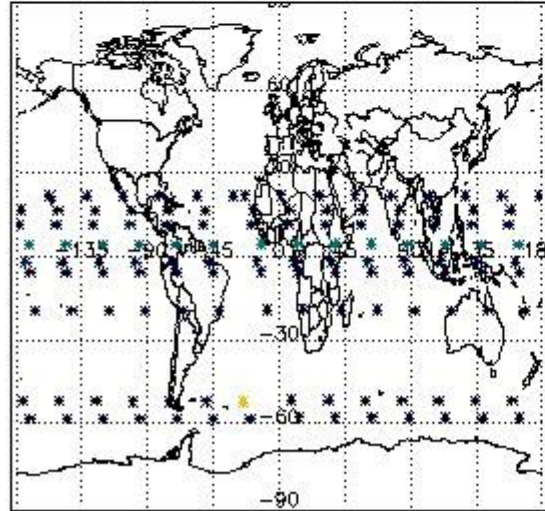
Percentage of flagged data per O3 profile



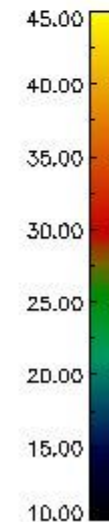
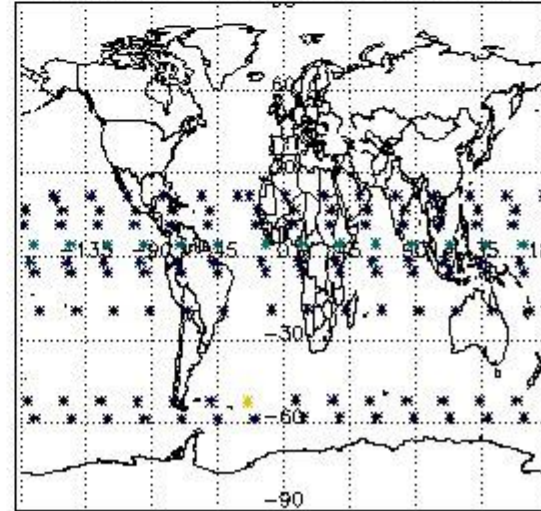
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



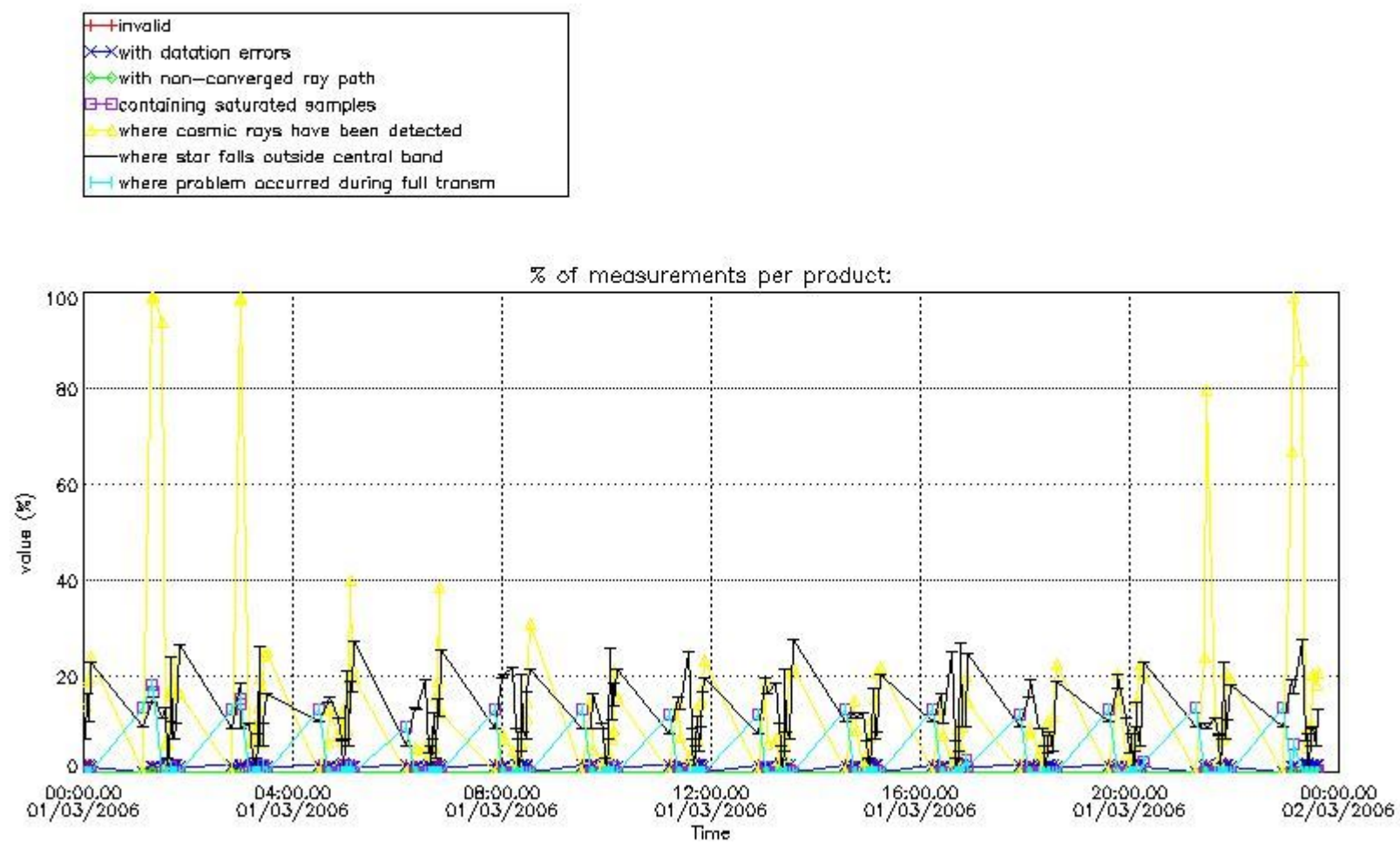
#### 4. Level 1 quality information per product

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.

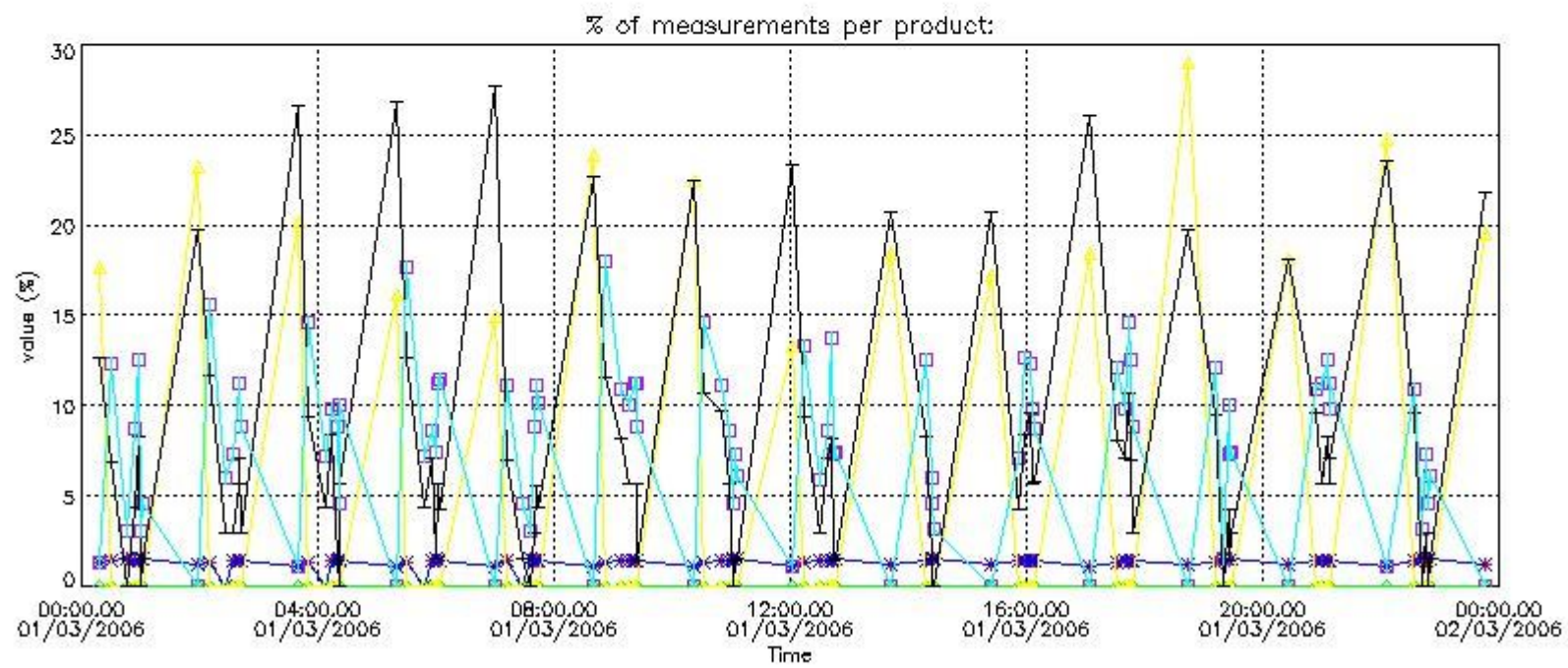
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

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





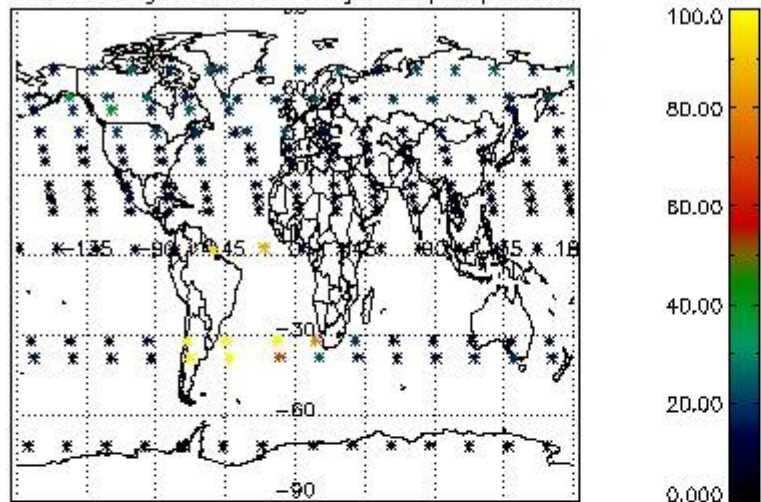
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



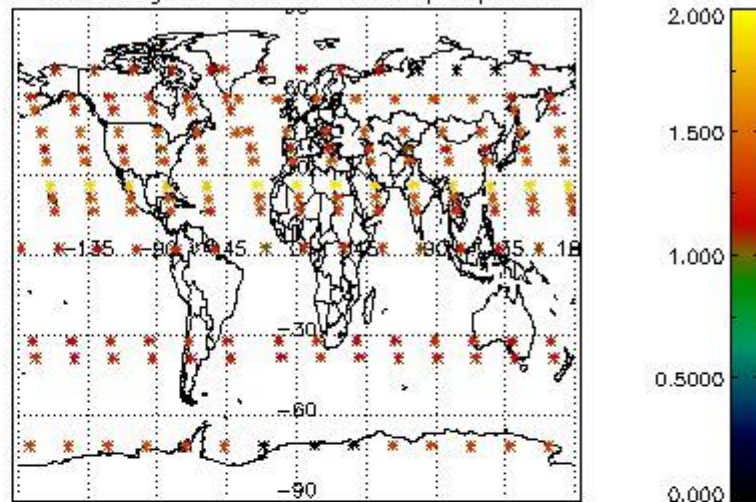
#### 4.2 Plot quality information per product coming from level 1b processing (world map)

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

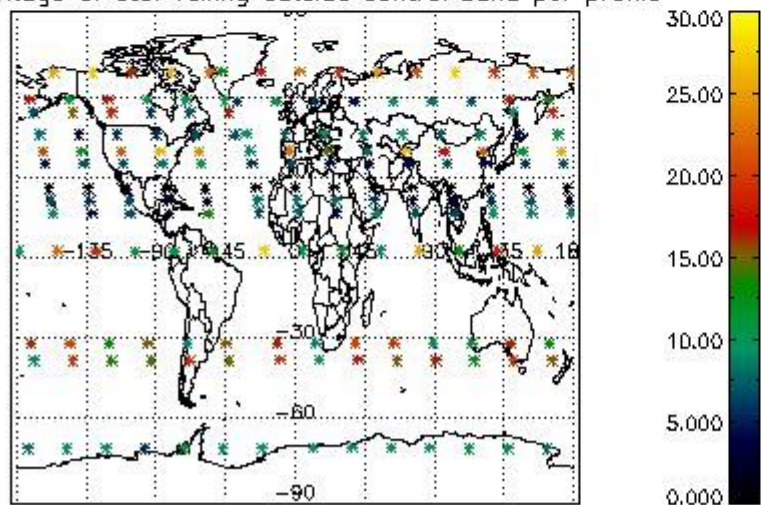
Percentage of cosmic ray hits per profile



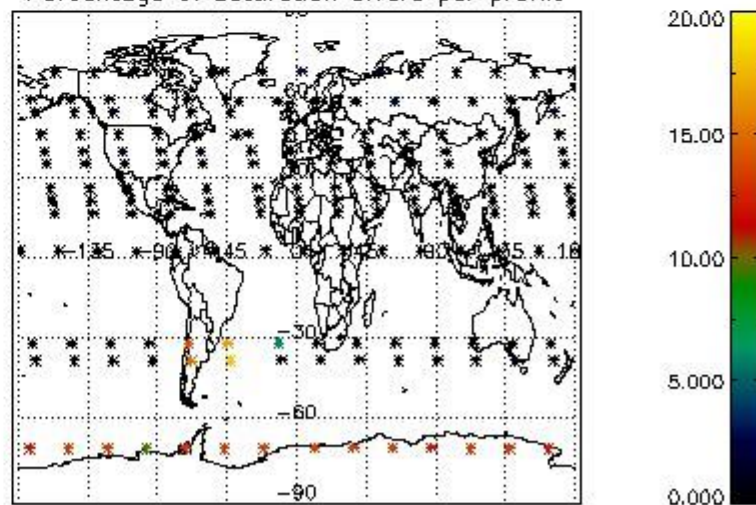
Percentage of datation errors per profile



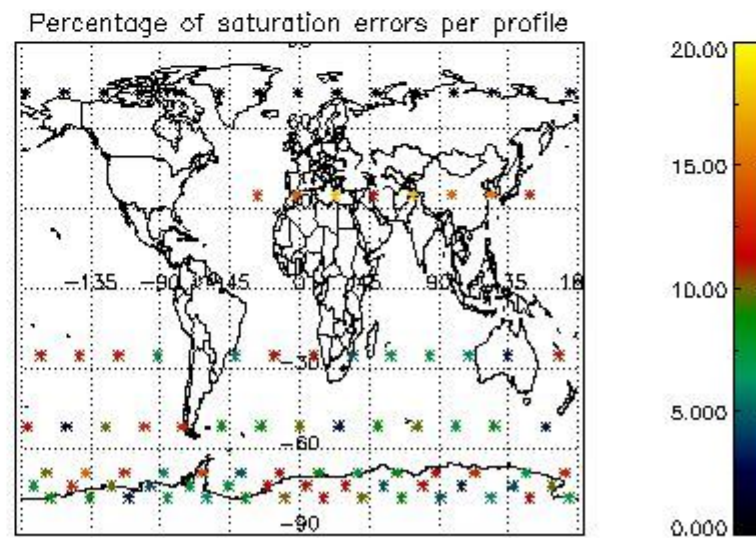
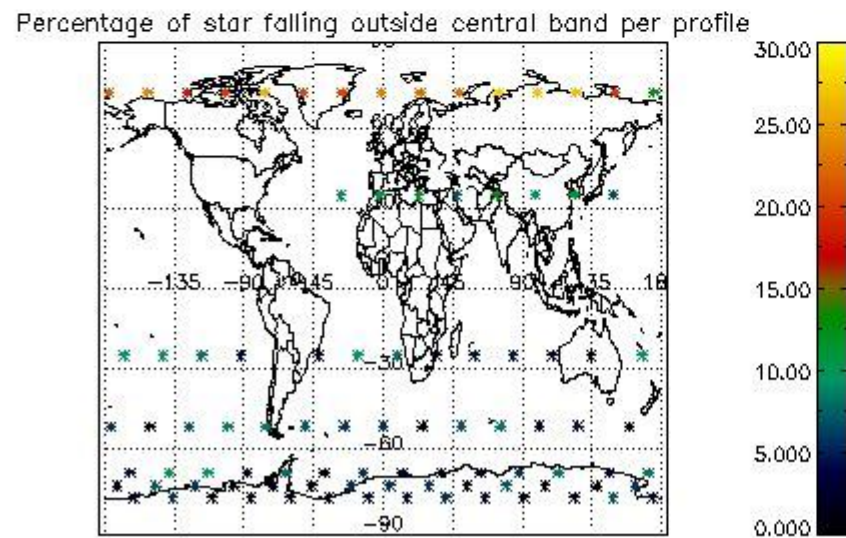
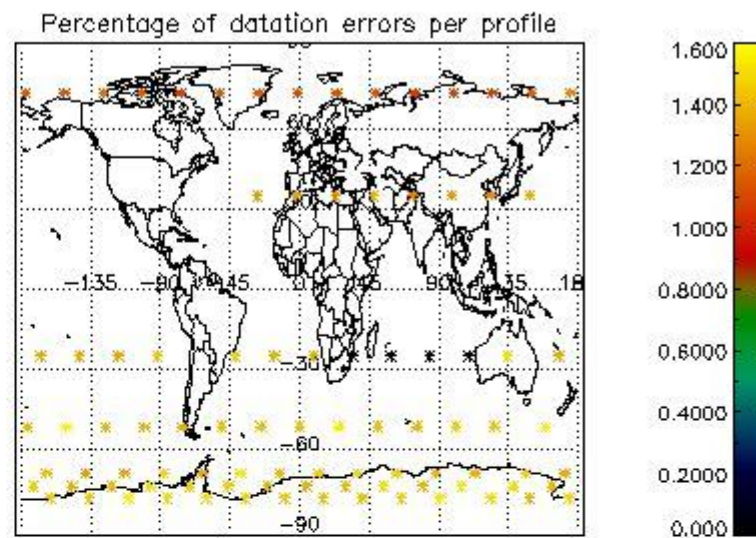
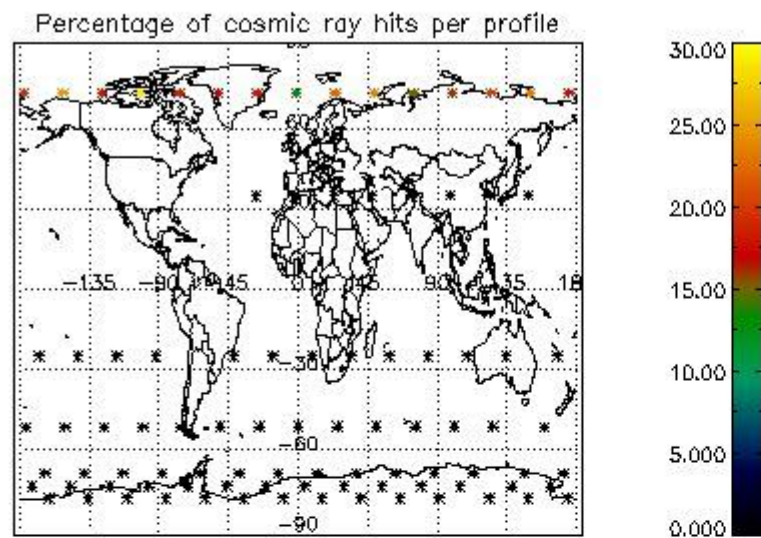
Percentage of star falling outside central band per profile



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

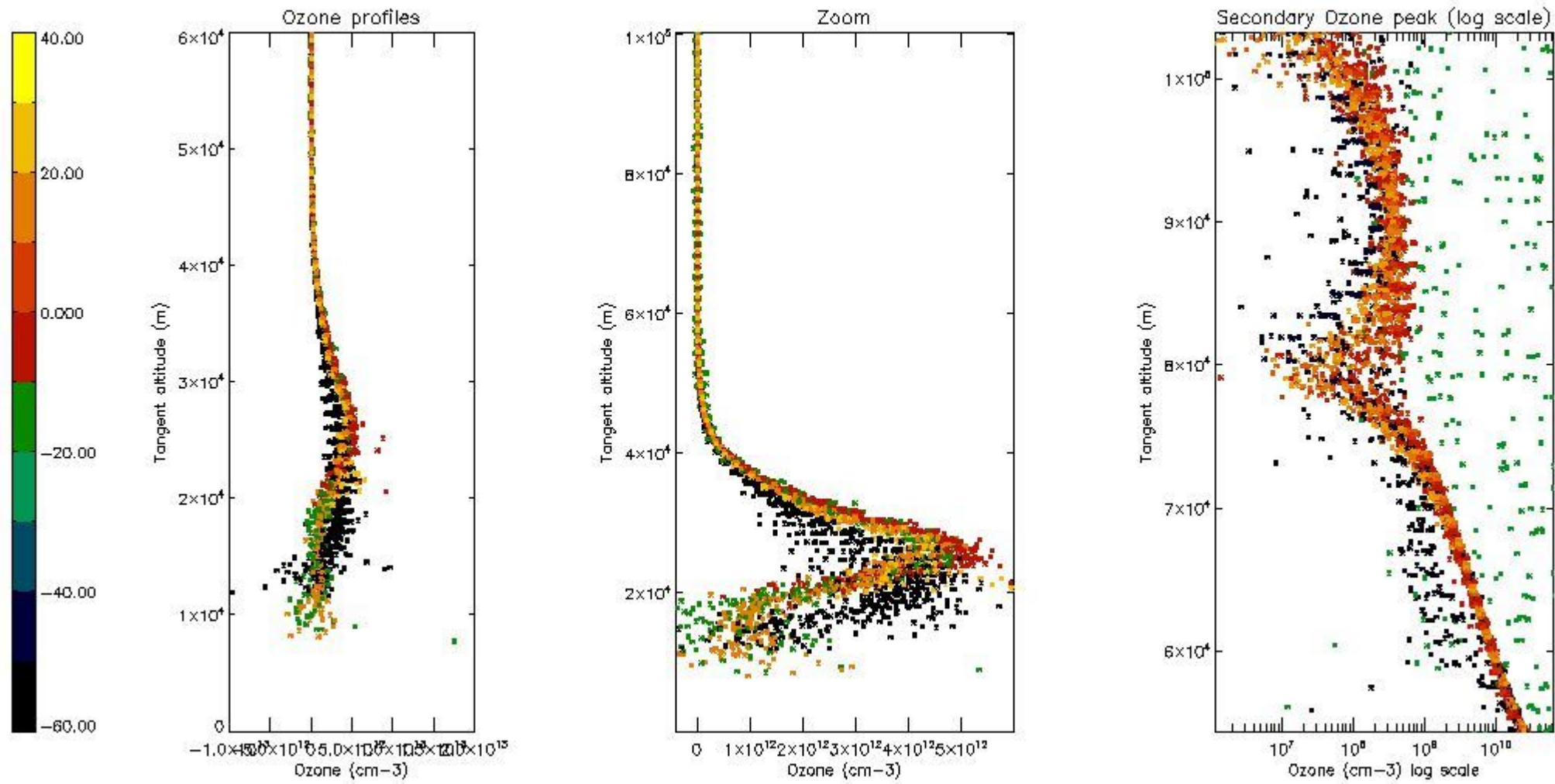
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	48
STD < 20	27

STD < 10	20
STD < 5	12

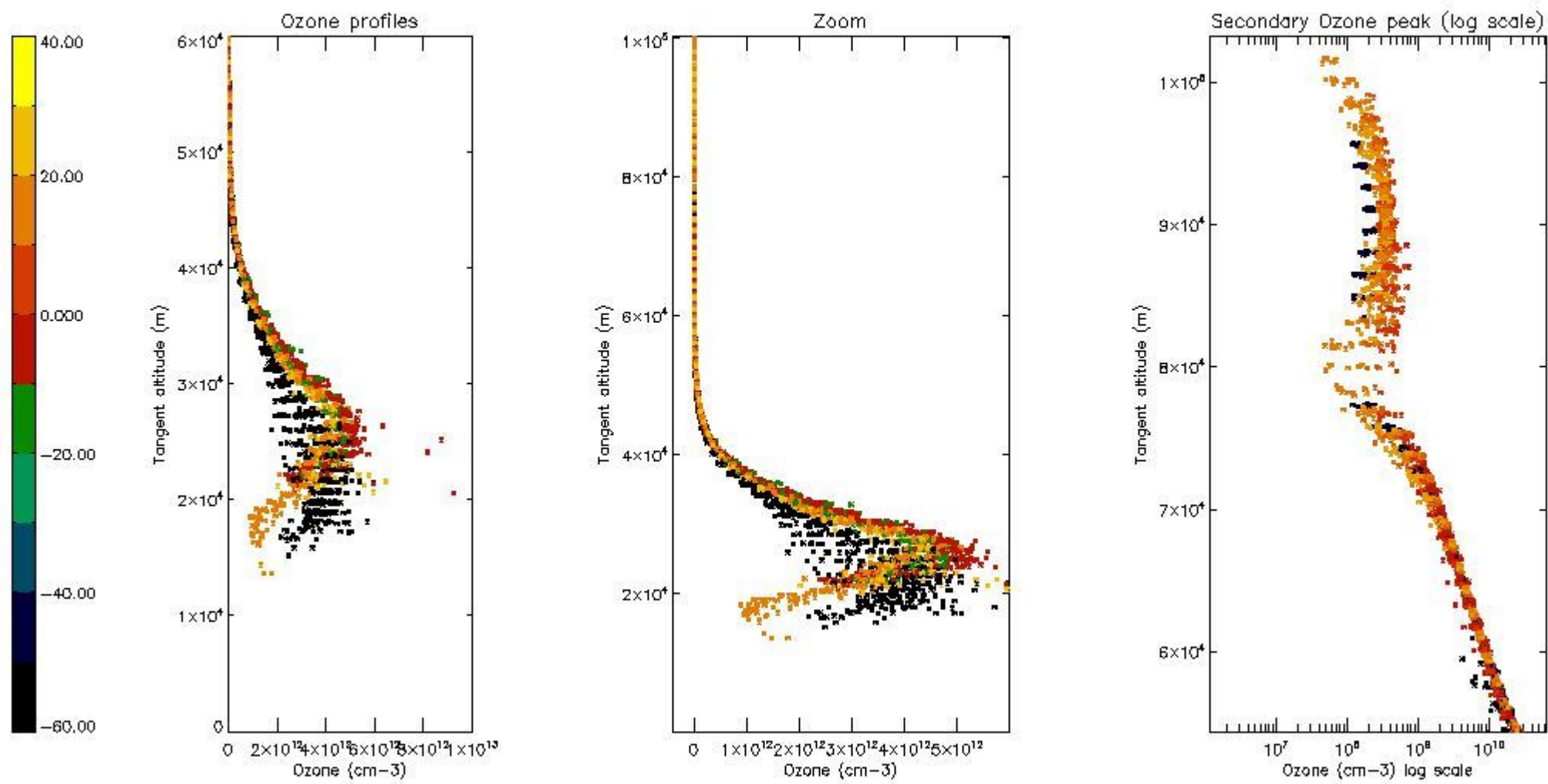
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



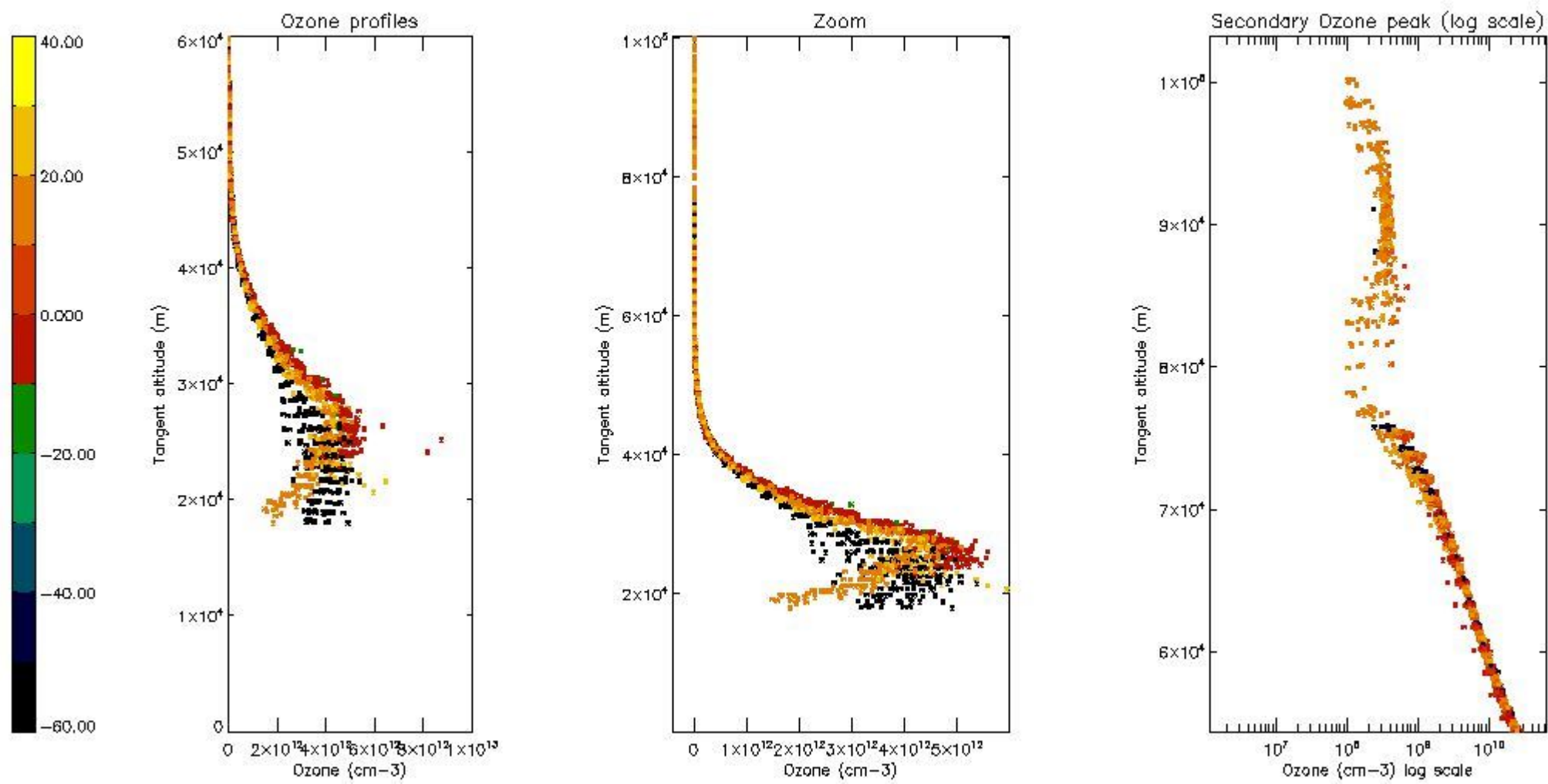
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



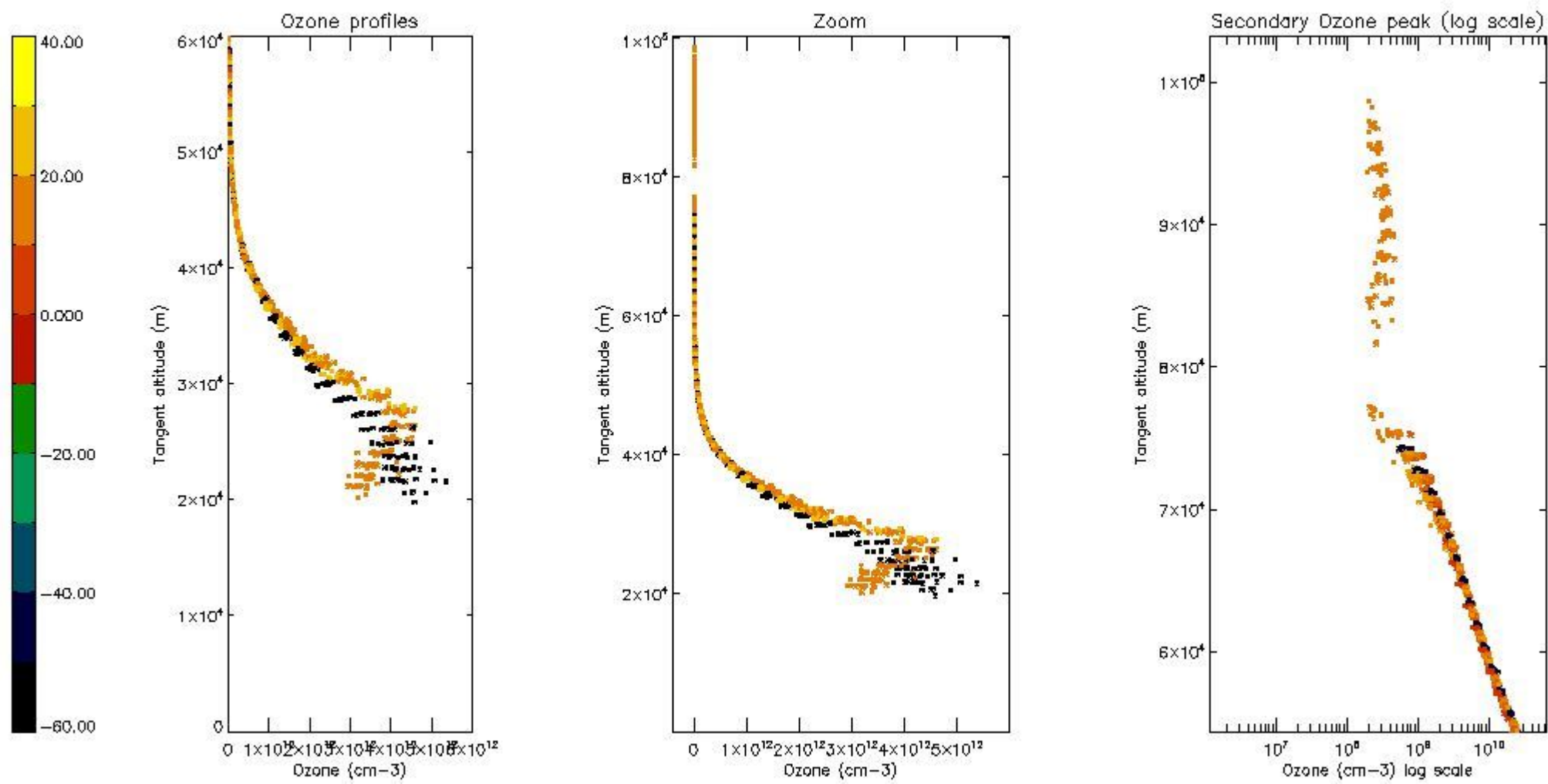
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



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

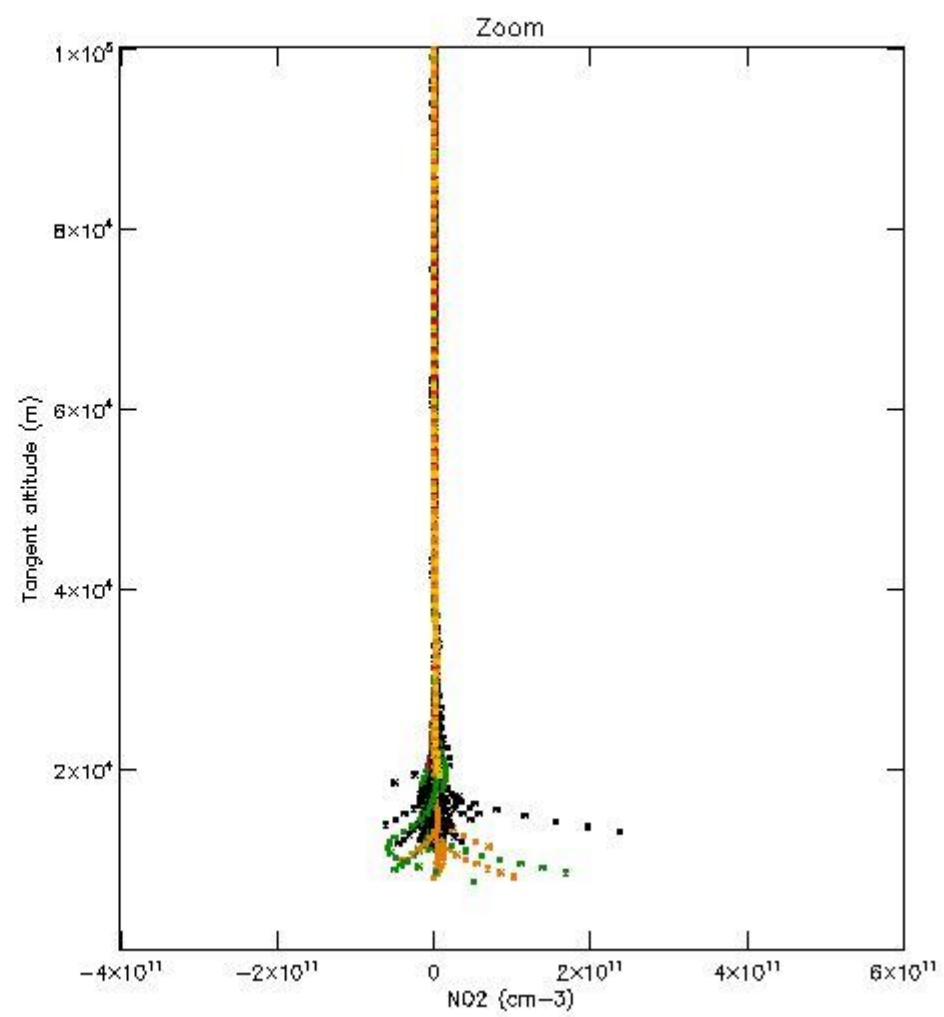
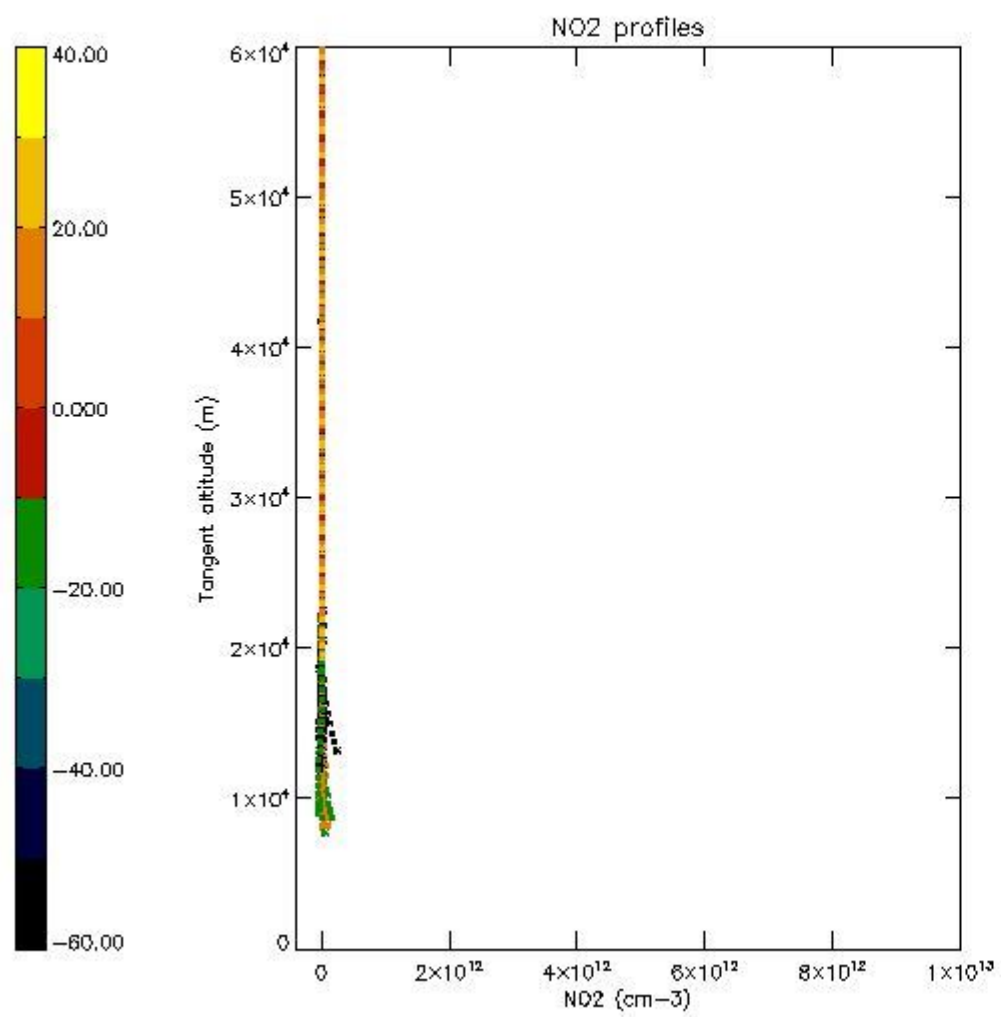
The colorbar represents the latitude.



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

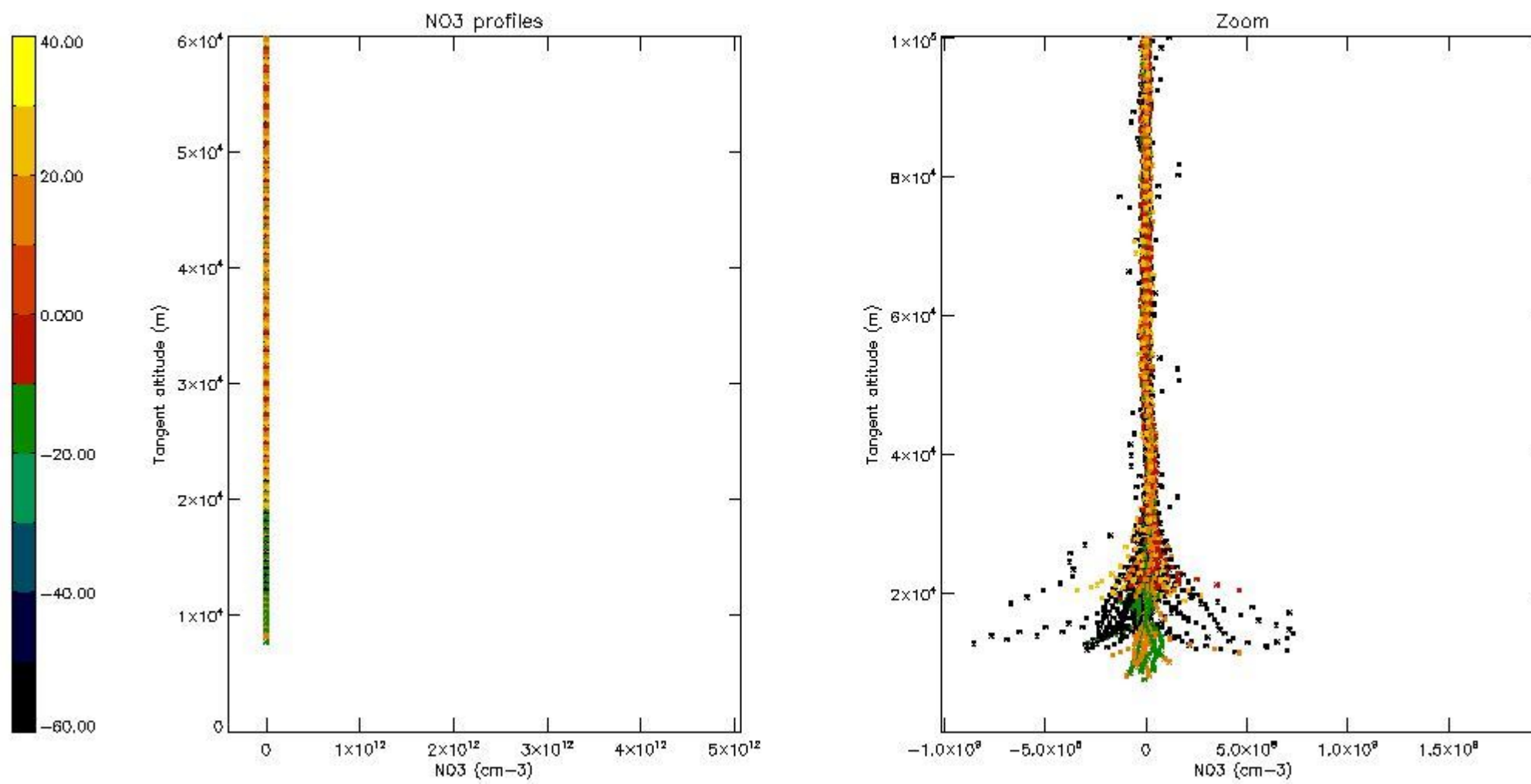
The colorbar represents the latitude.





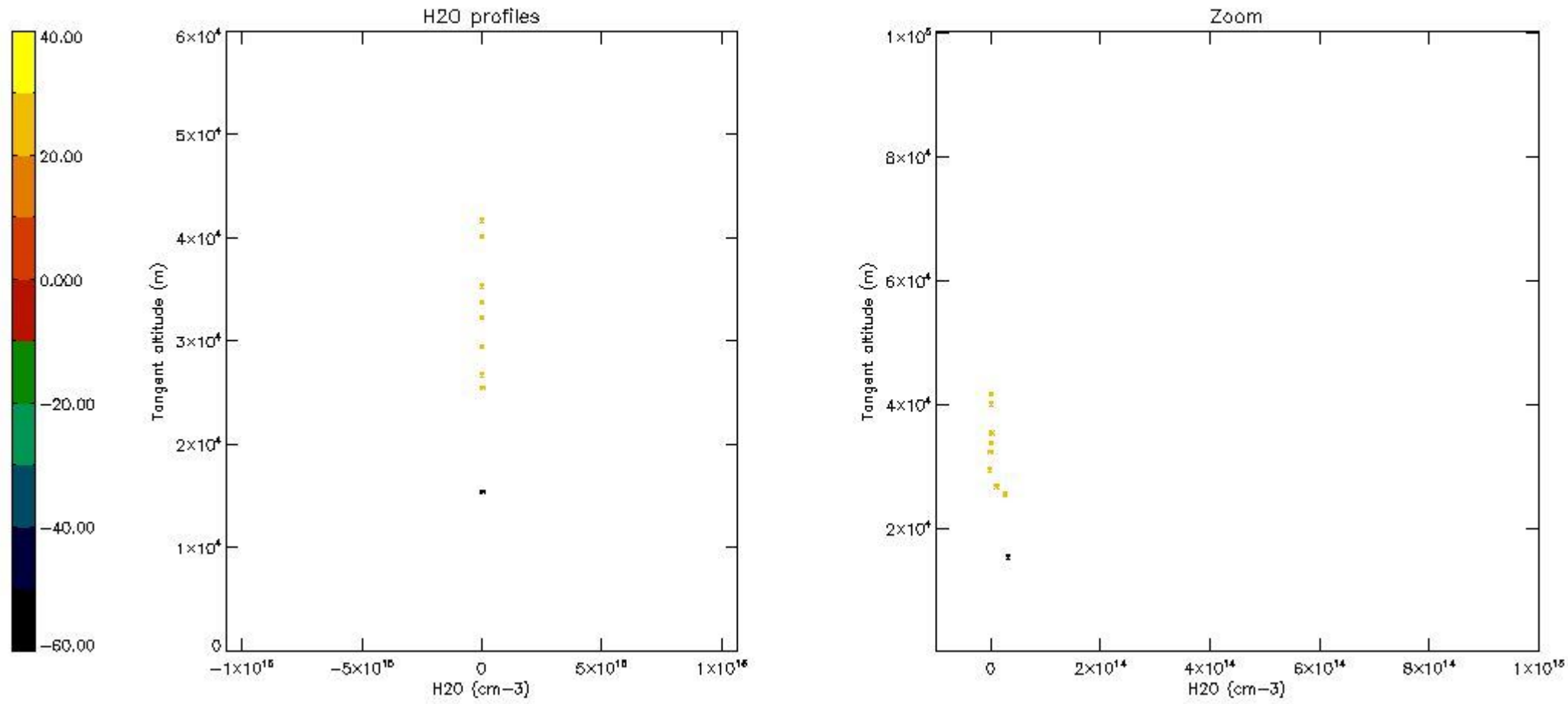
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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	01-MAR-2006 00:01:39
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	01-MAR-2006 00:01:39
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	01-MAR-2006 00:01:39

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#### [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](#)

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#### [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](#)





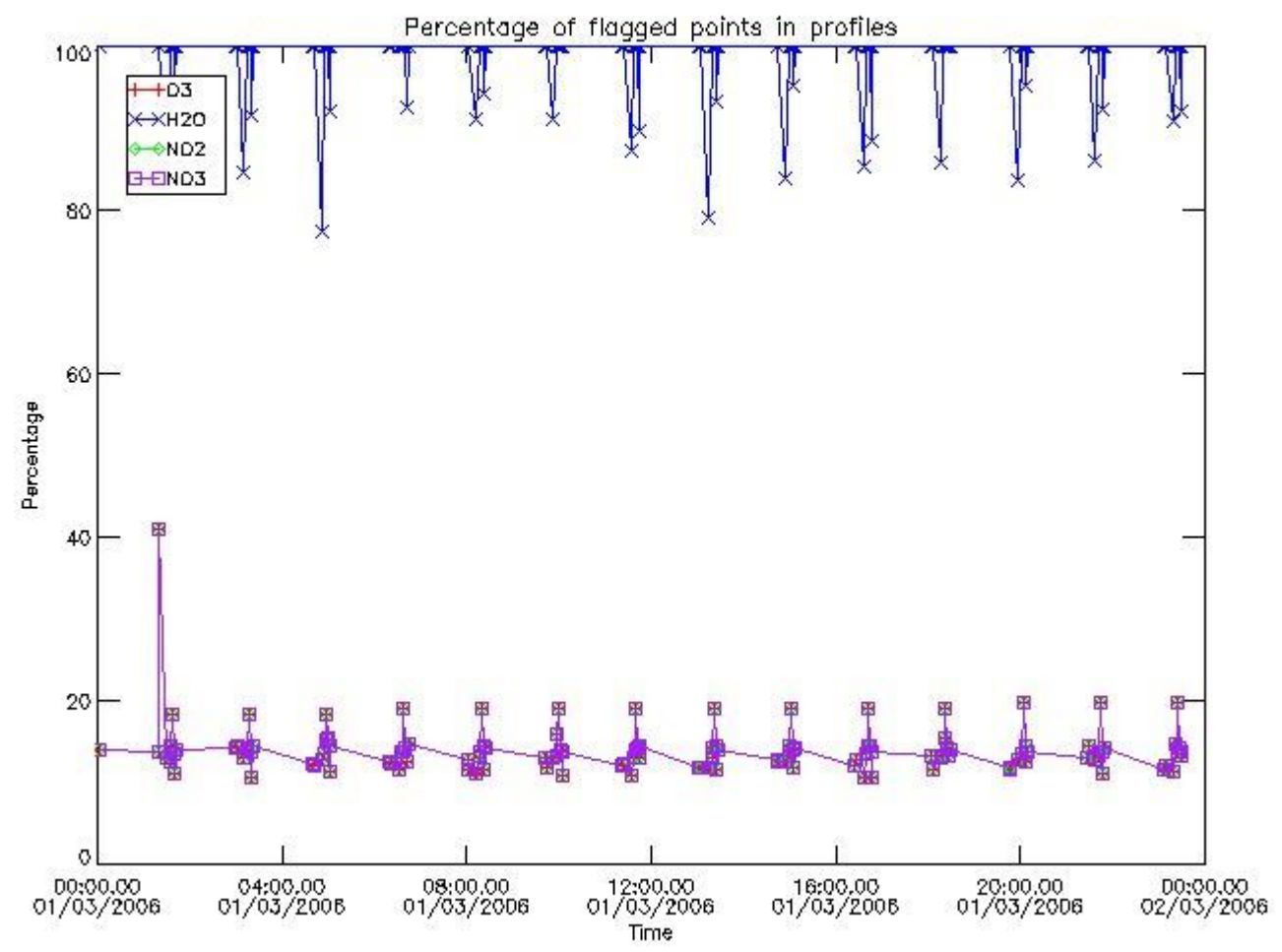






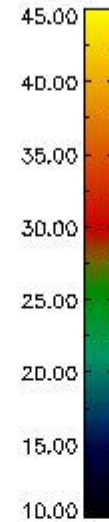
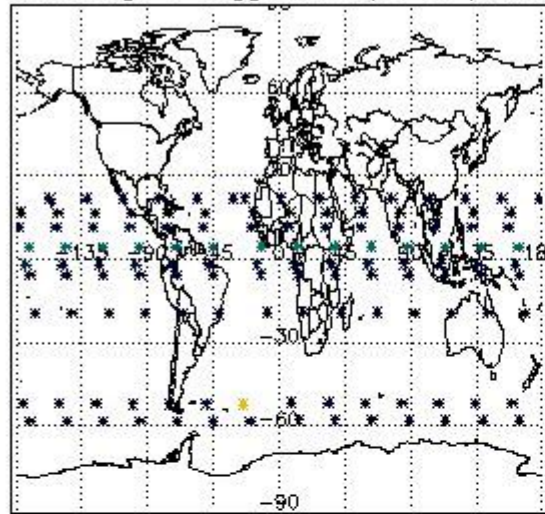


3.1 Plot quality information per product (time dependant)

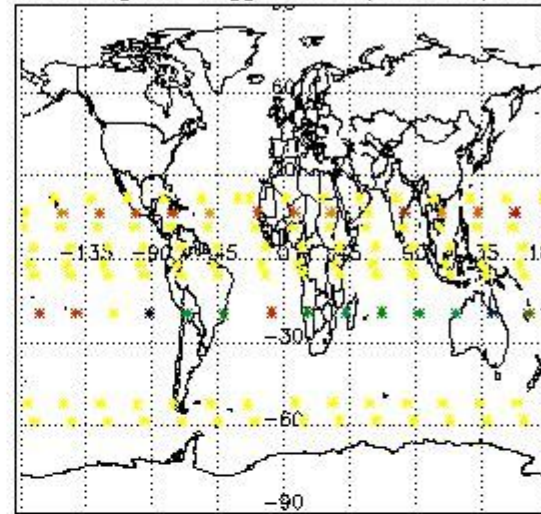


3.2 Plot quality information per product (world map)

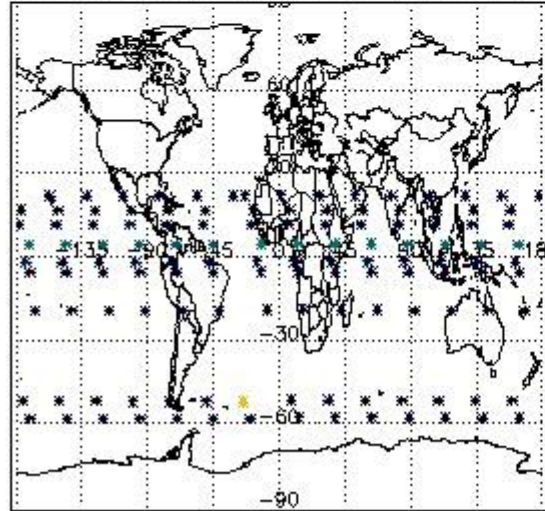
Percentage of flagged data per O3 profile



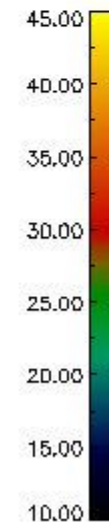
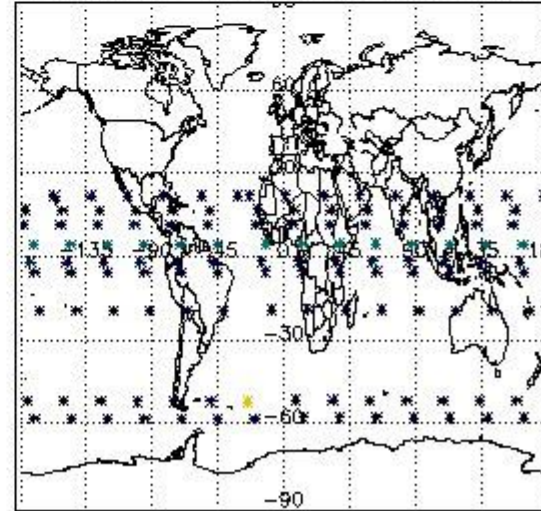
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

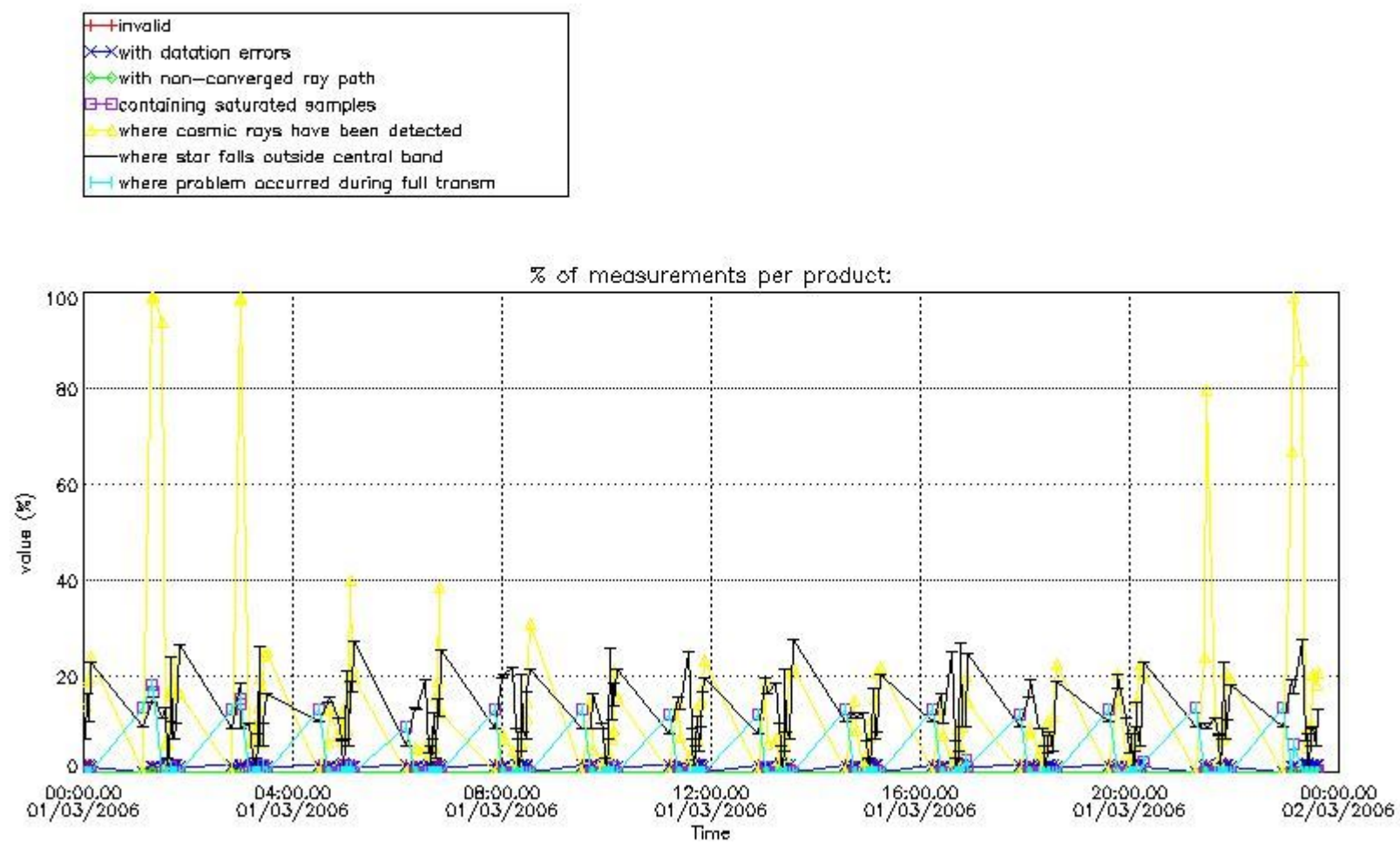


#### 4. Level 1 quality information per product

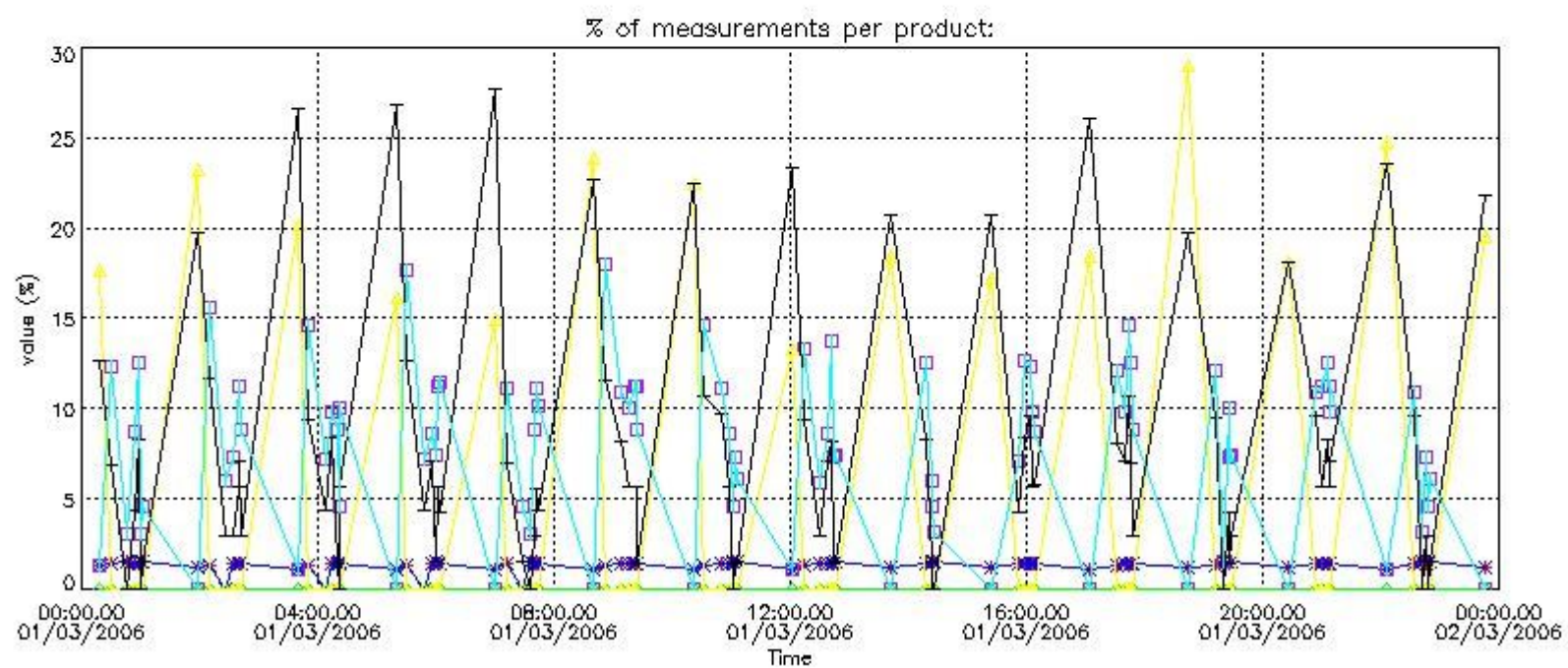
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



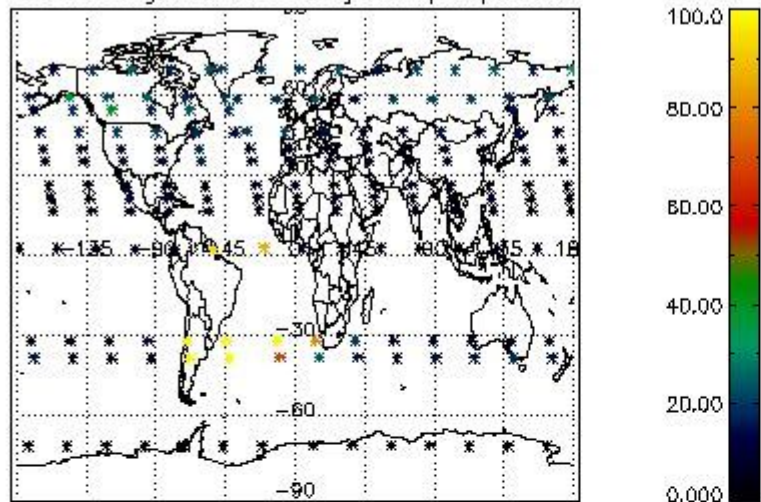
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



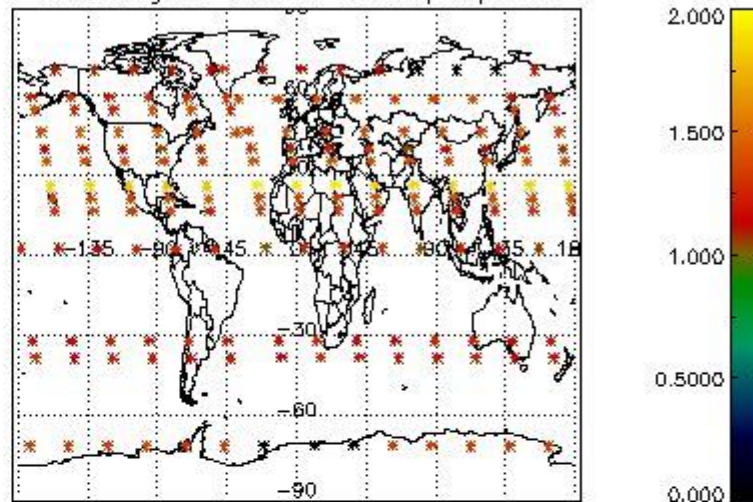
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

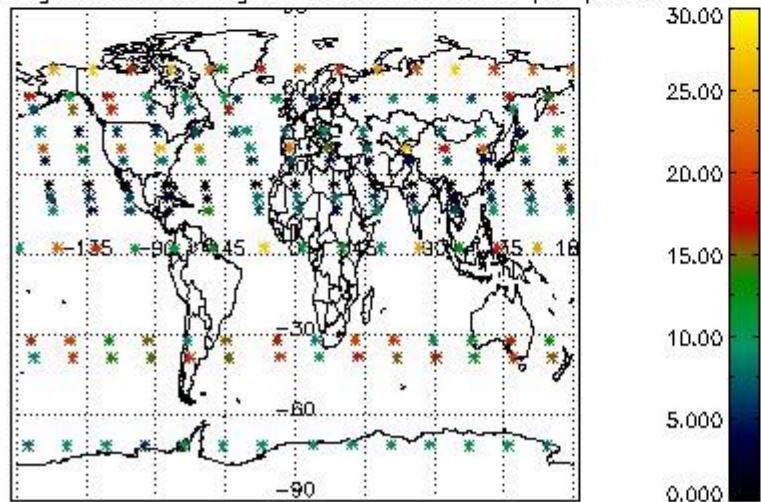
Percentage of cosmic ray hits per profile



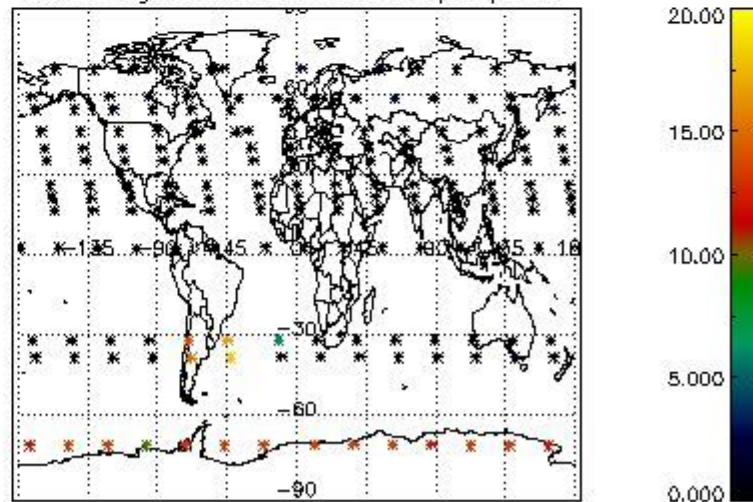
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

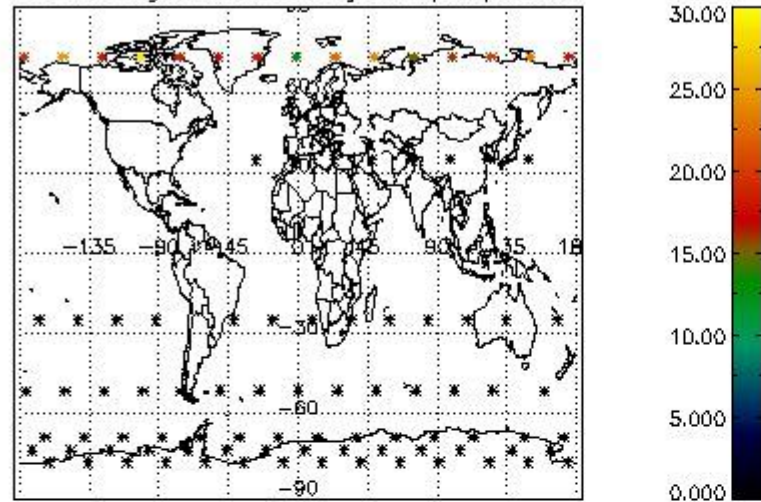


Percentage of saturation errors per profile

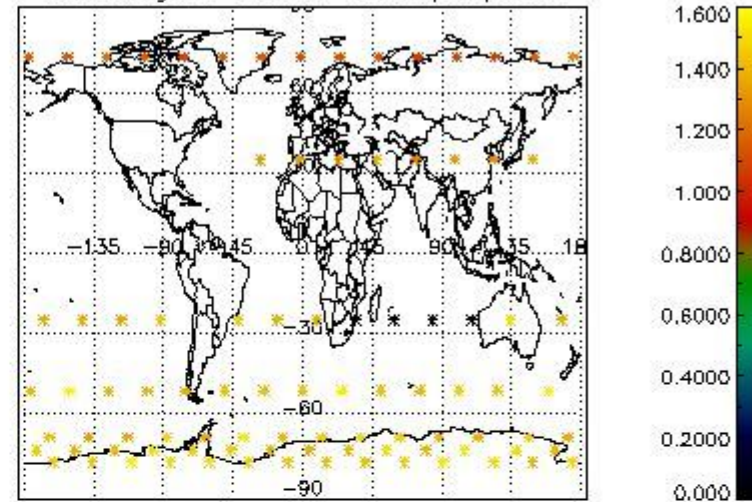


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

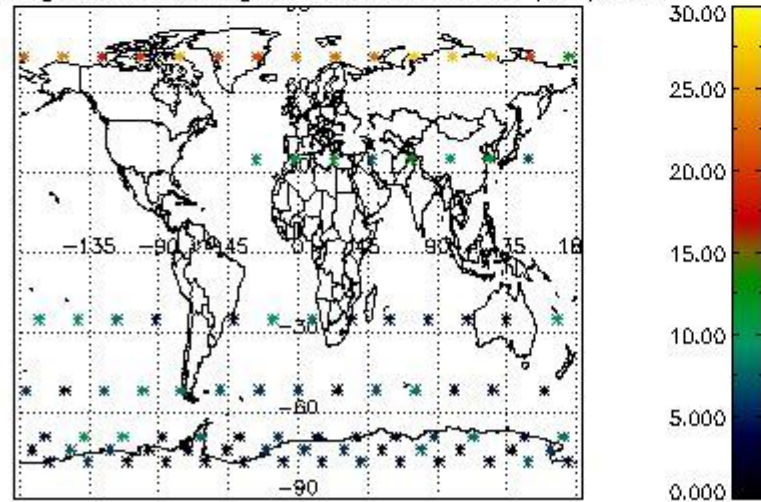
Percentage of cosmic ray hits per profile



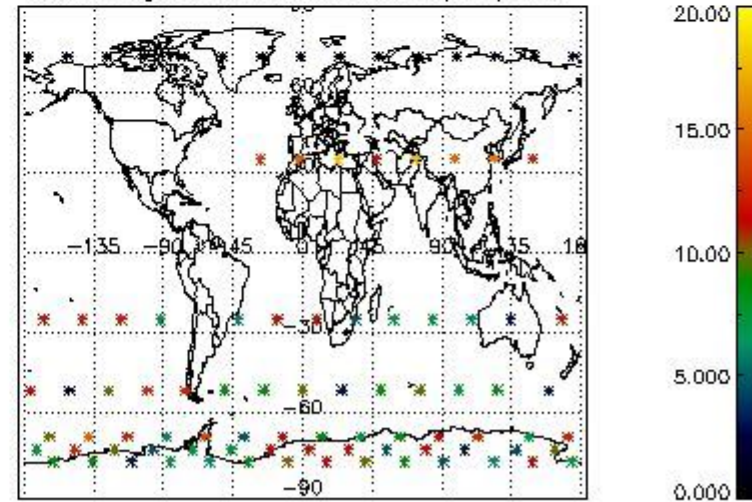
Percentage of datation errors per profile



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

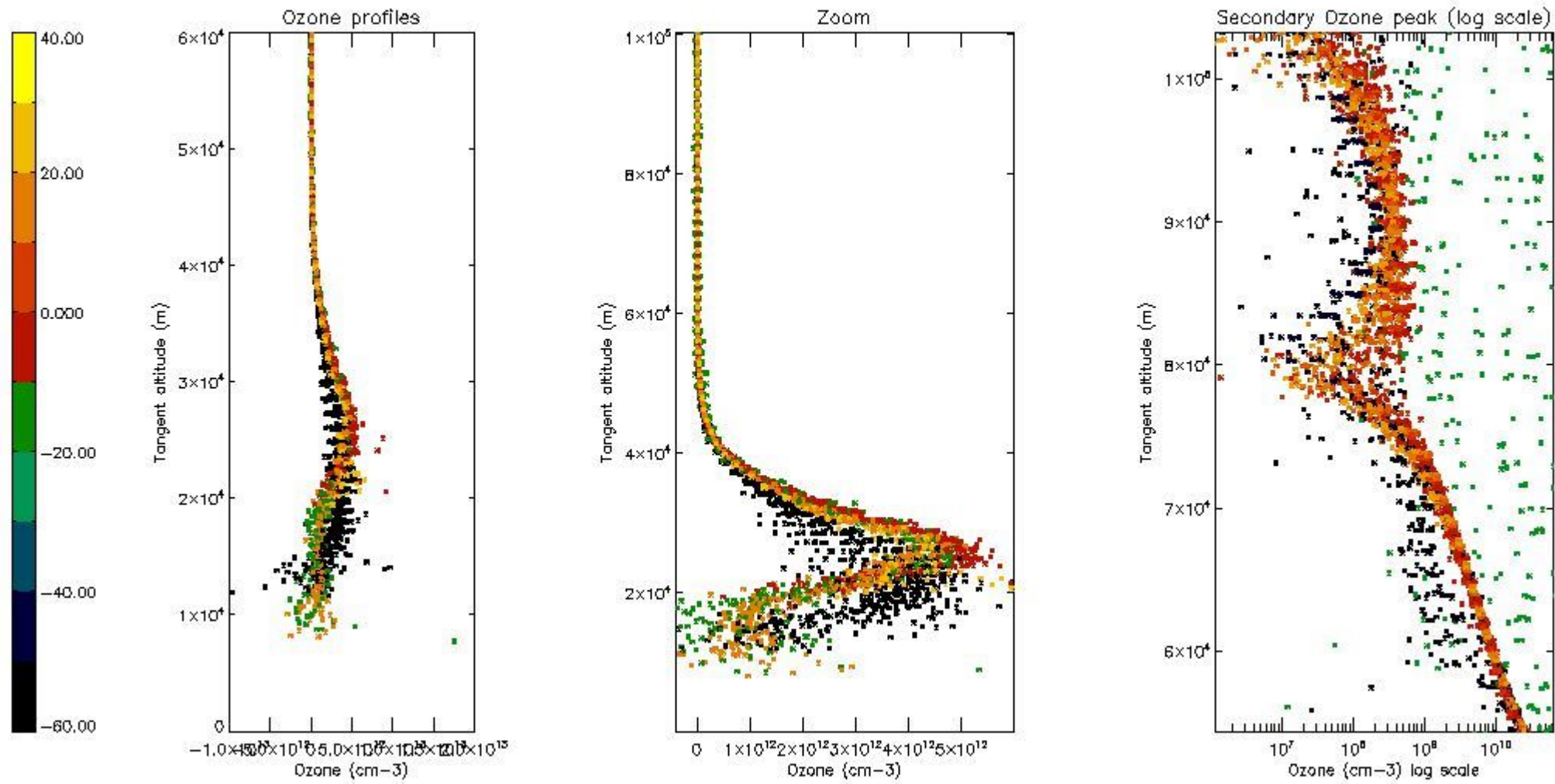
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	48
STD < 20	27

STD < 10	20
STD < 5	12

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

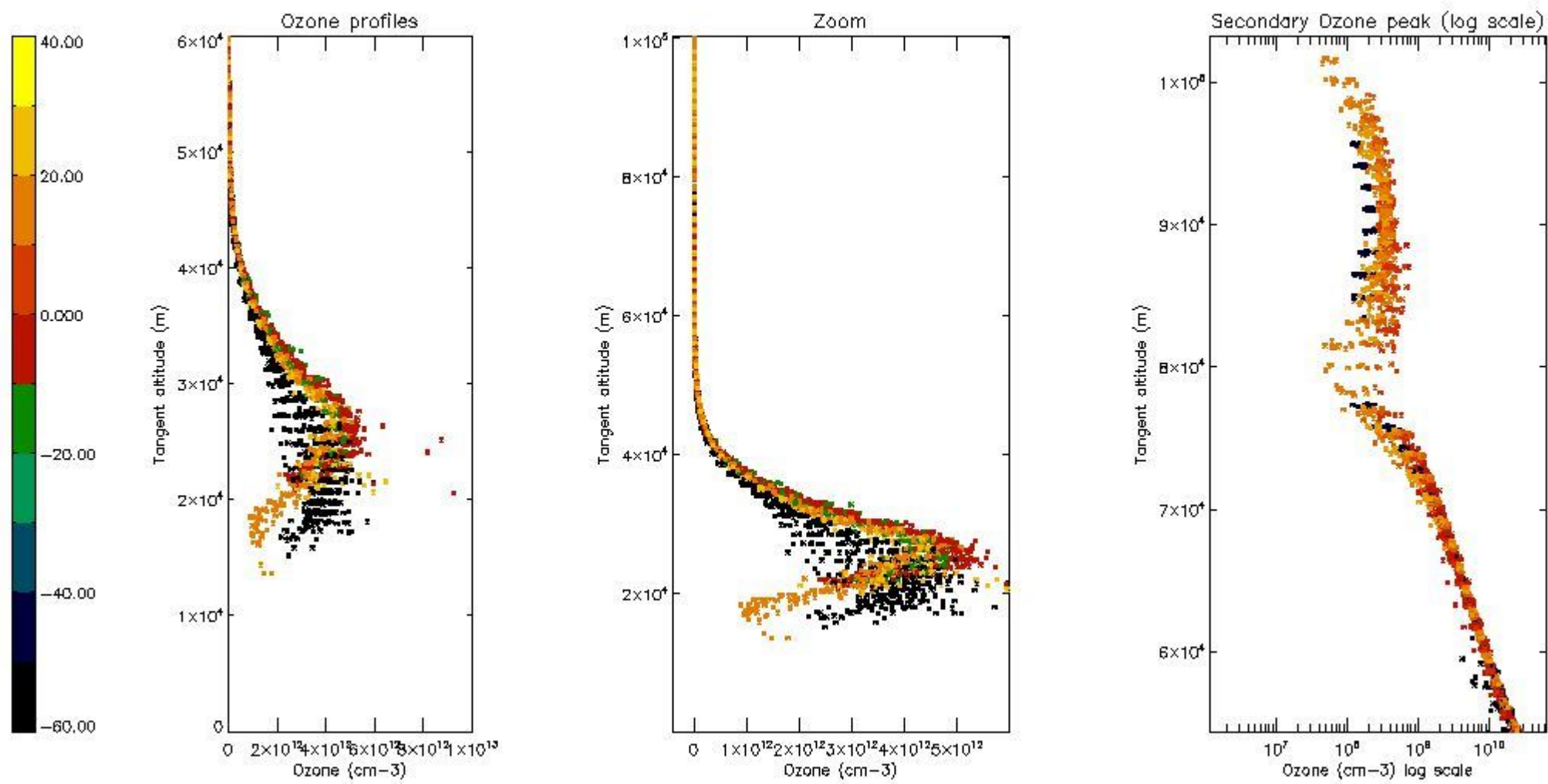
The colorbar represents the latitude.



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

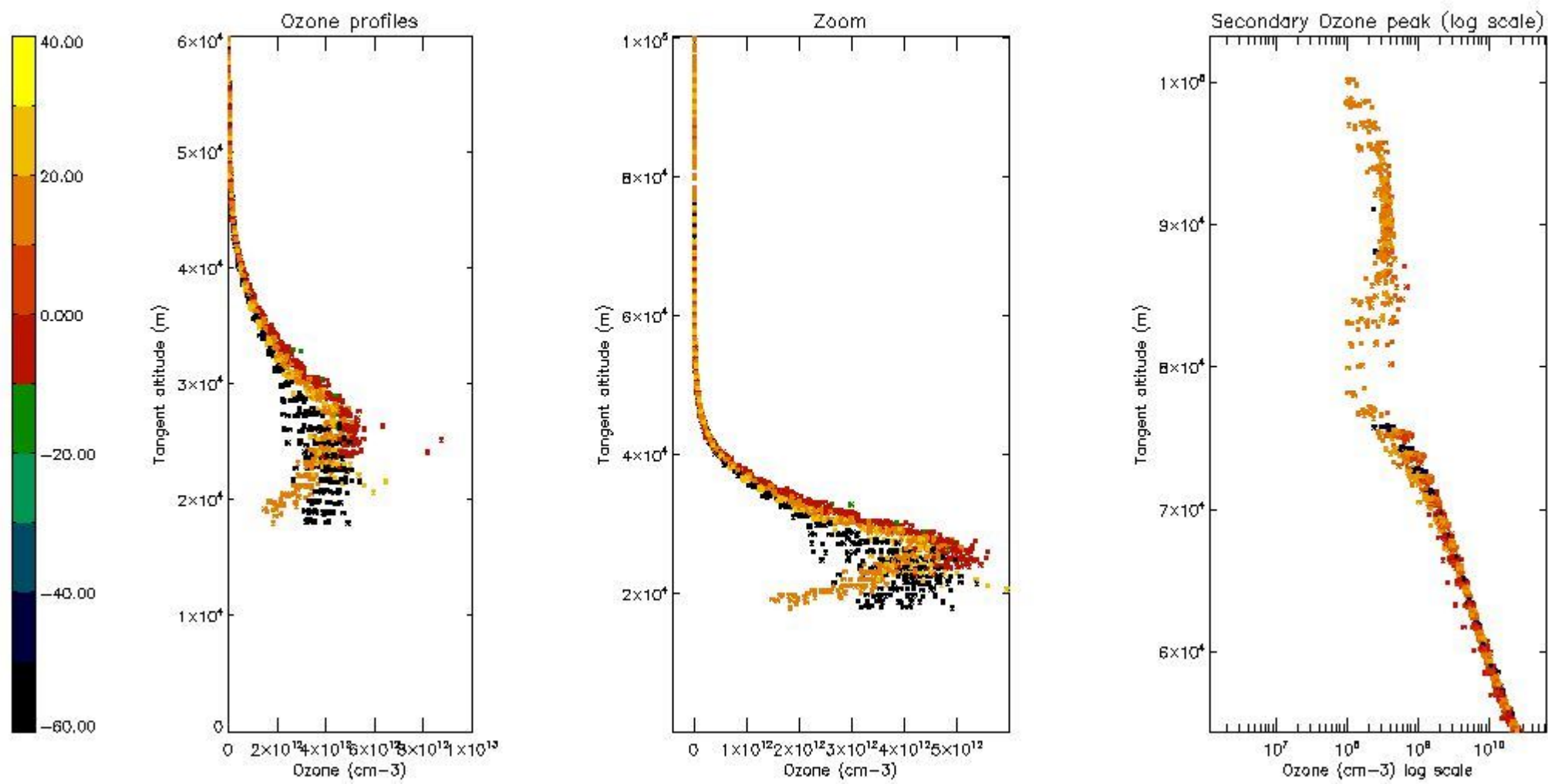
The colorbar represents the latitude.





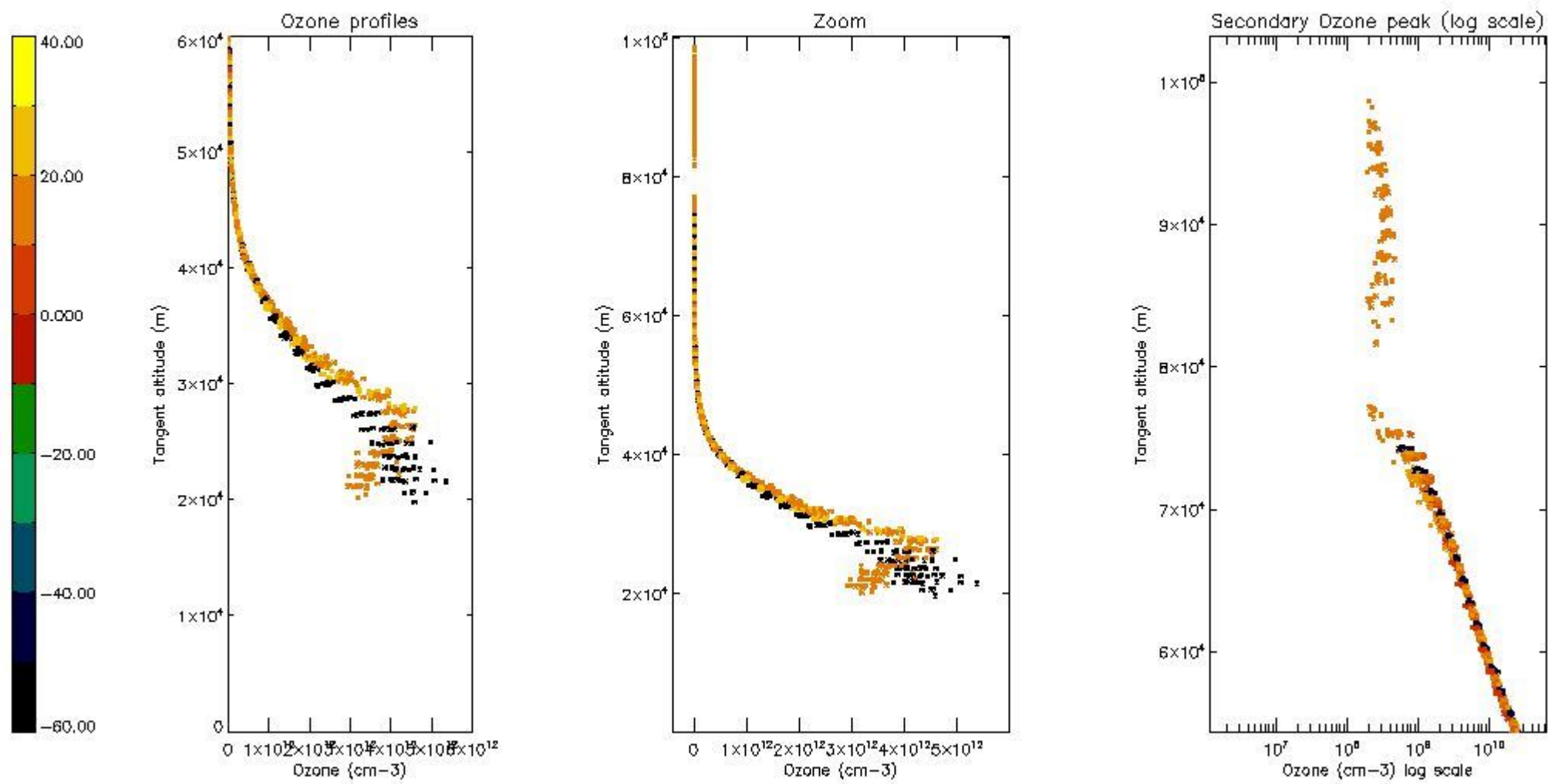
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



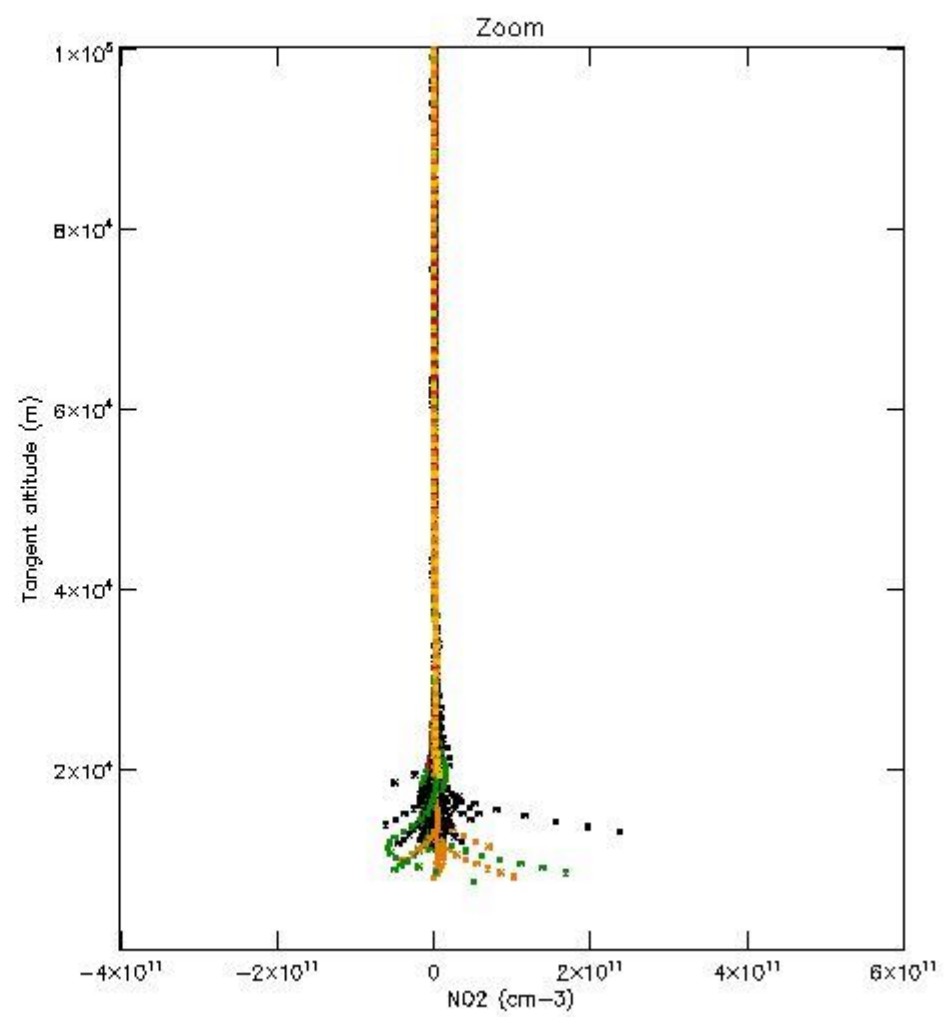
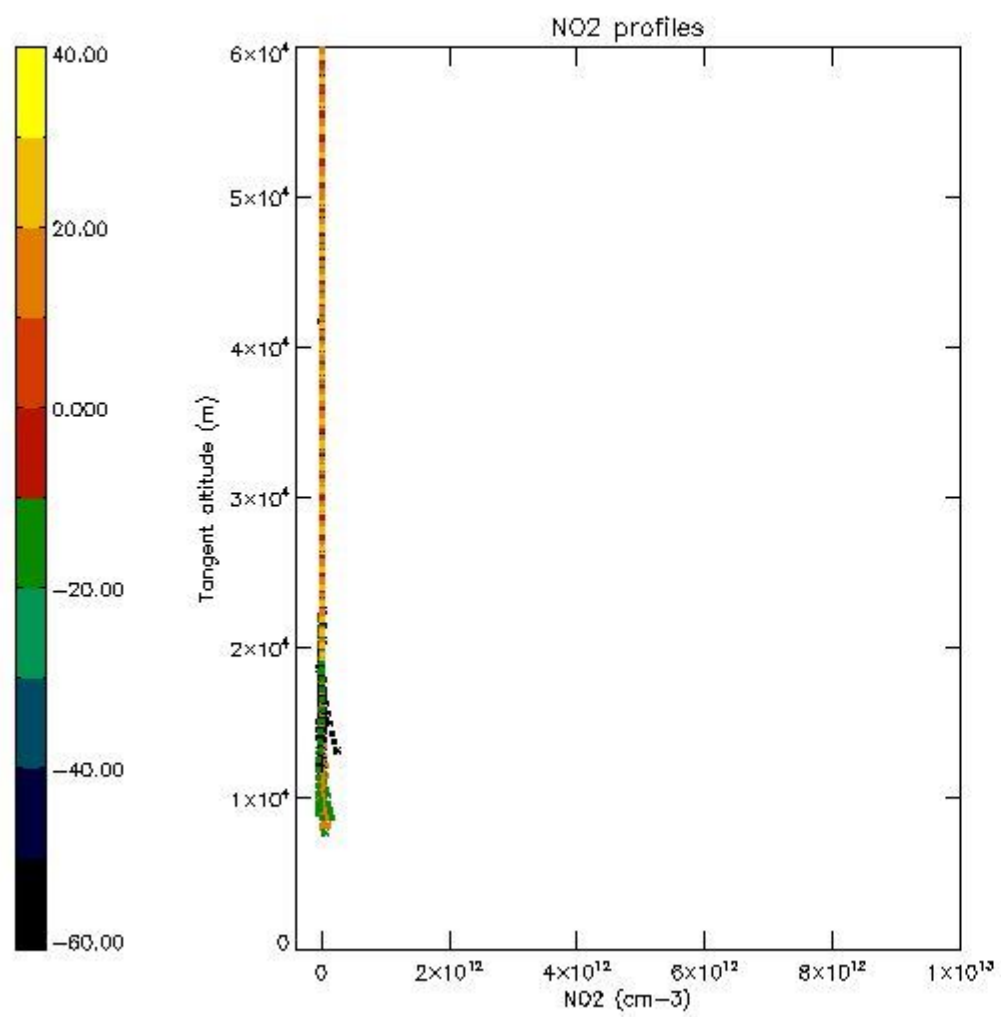
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



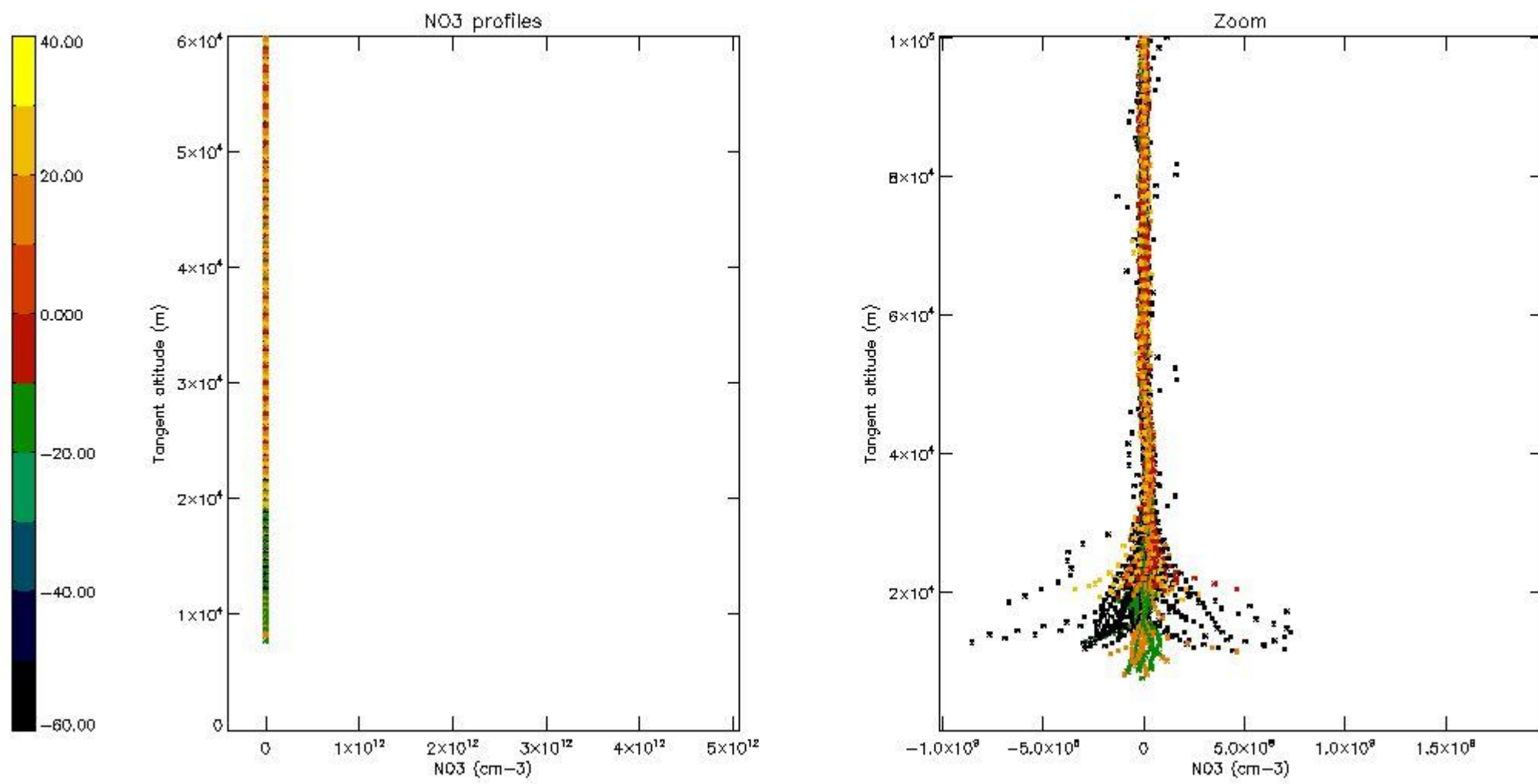
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



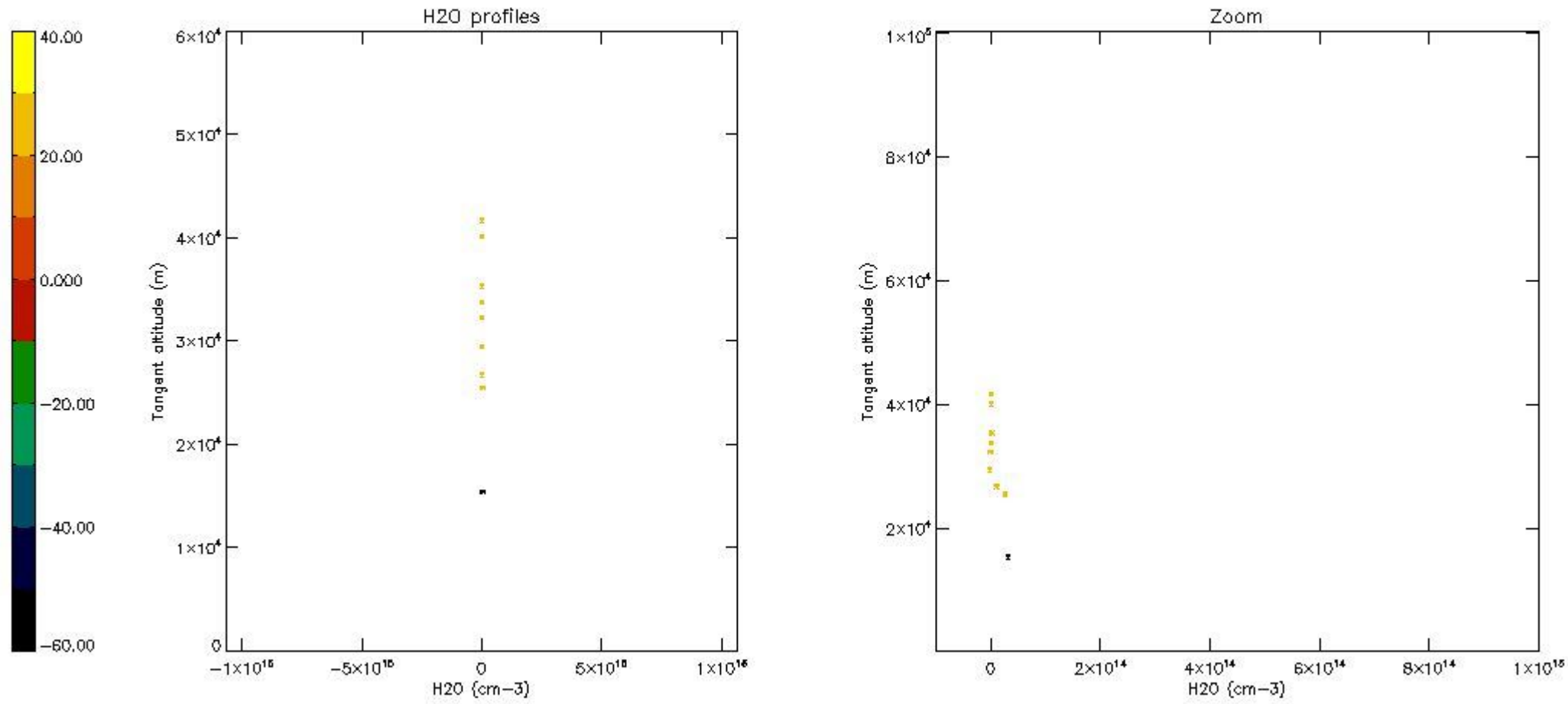
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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)*

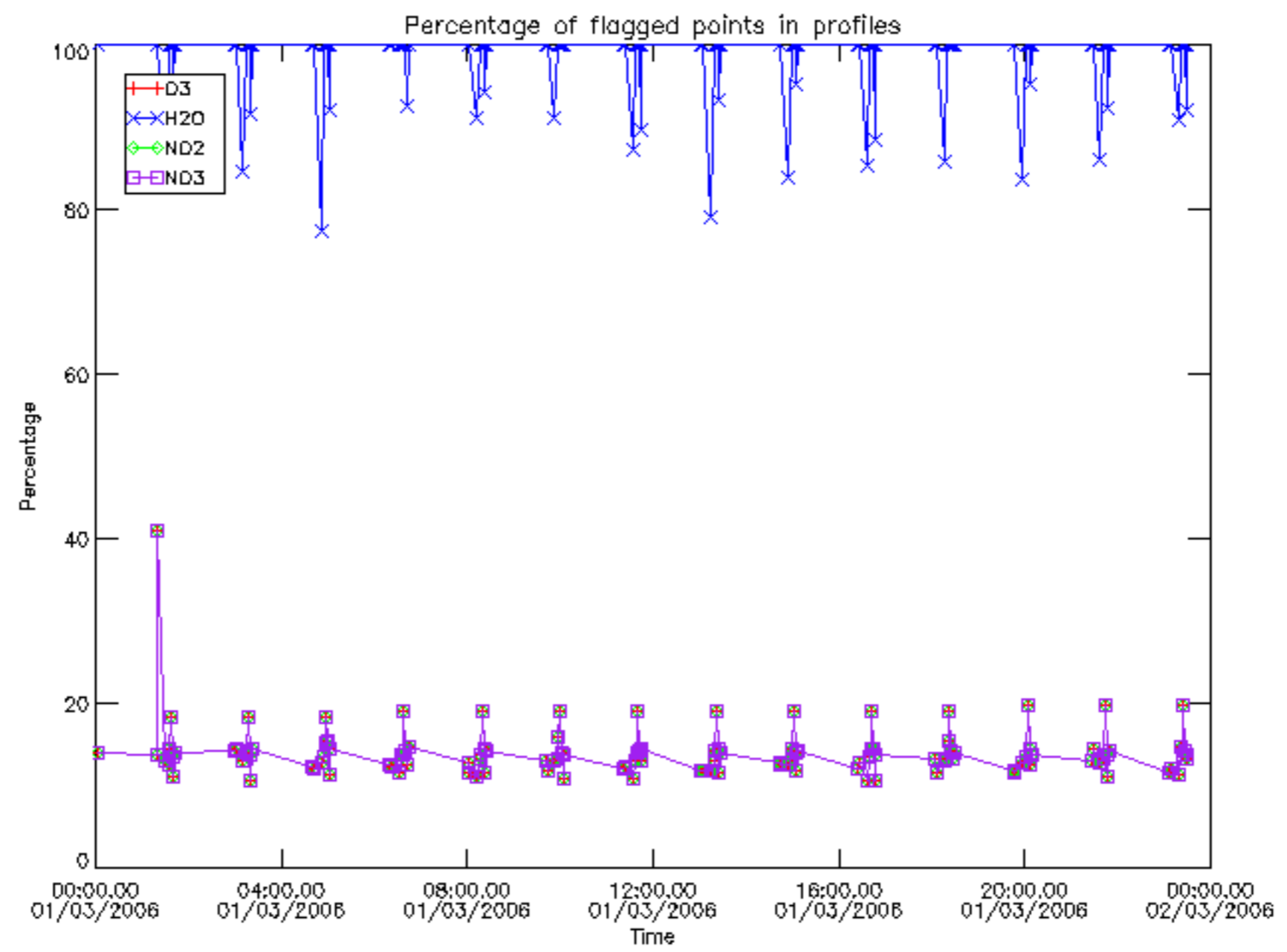
The colorbar represents the latitude.



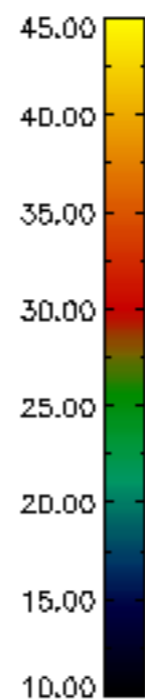
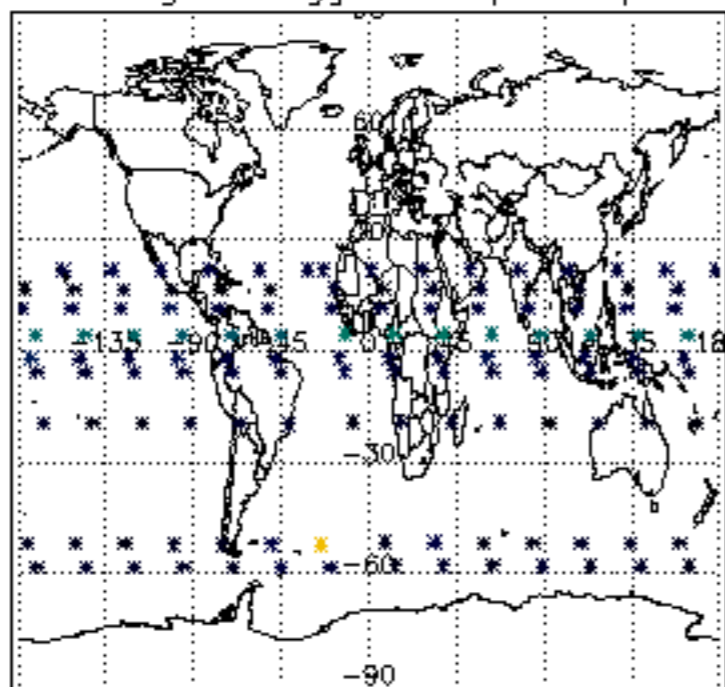
## 6. Auxiliary Data Files used for the production reported in section 2

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.

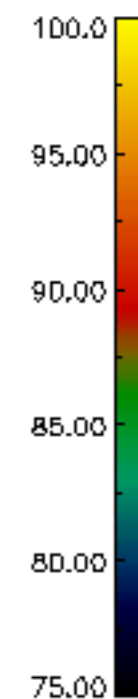
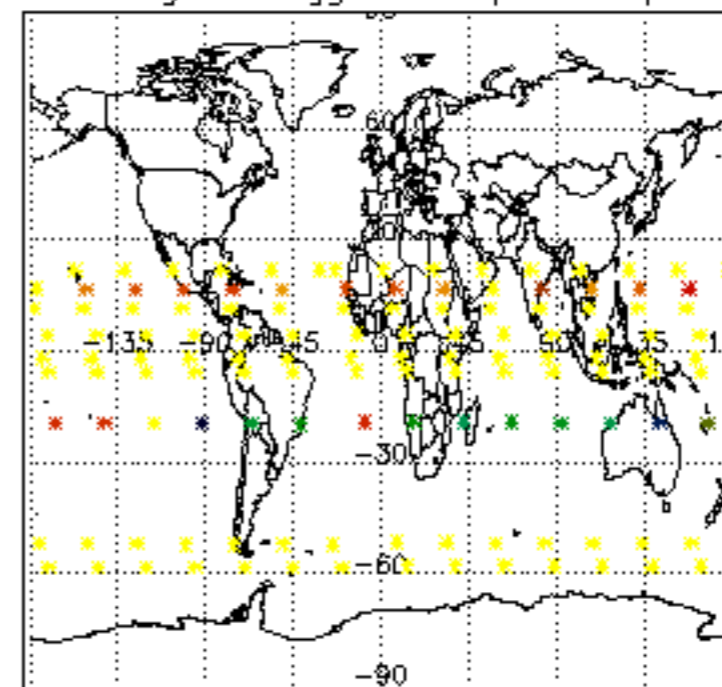
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	01-MAR-2006 00:01:39
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	01-MAR-2006 00:01:39
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	01-MAR-2006 00:01:39



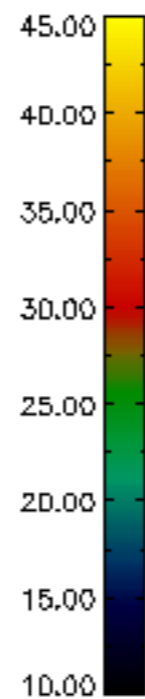
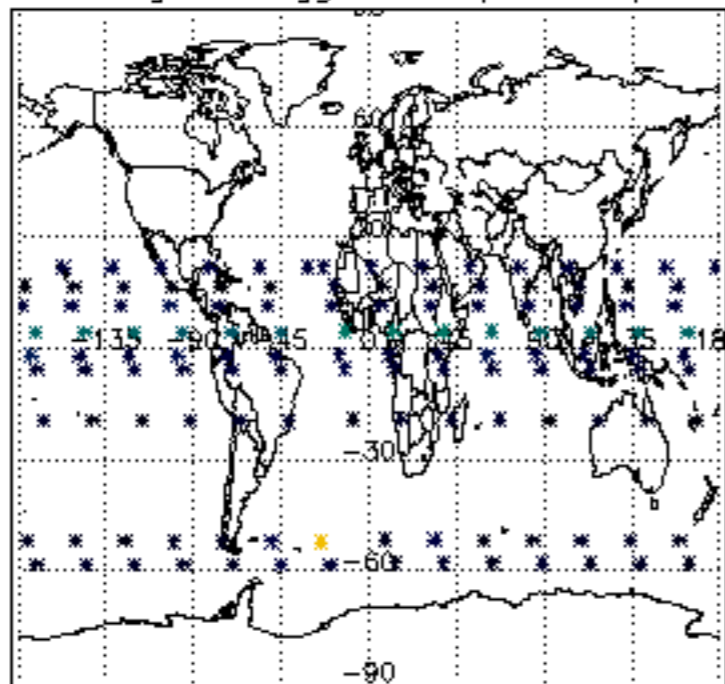
Percentage of flagged data per D3 profile



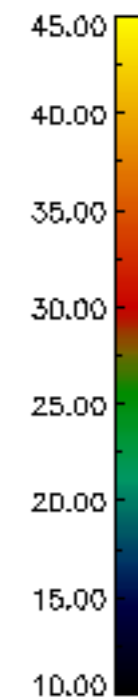
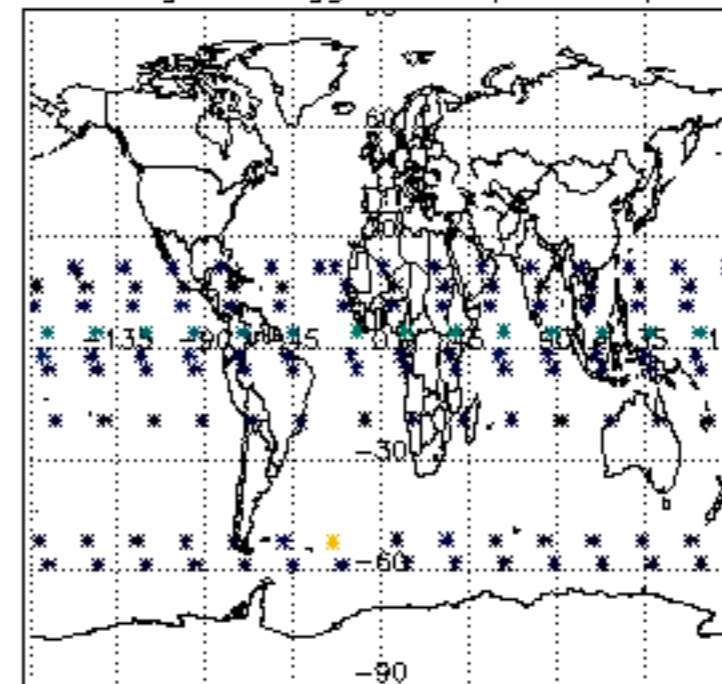
Percentage of flagged data per H2O profile



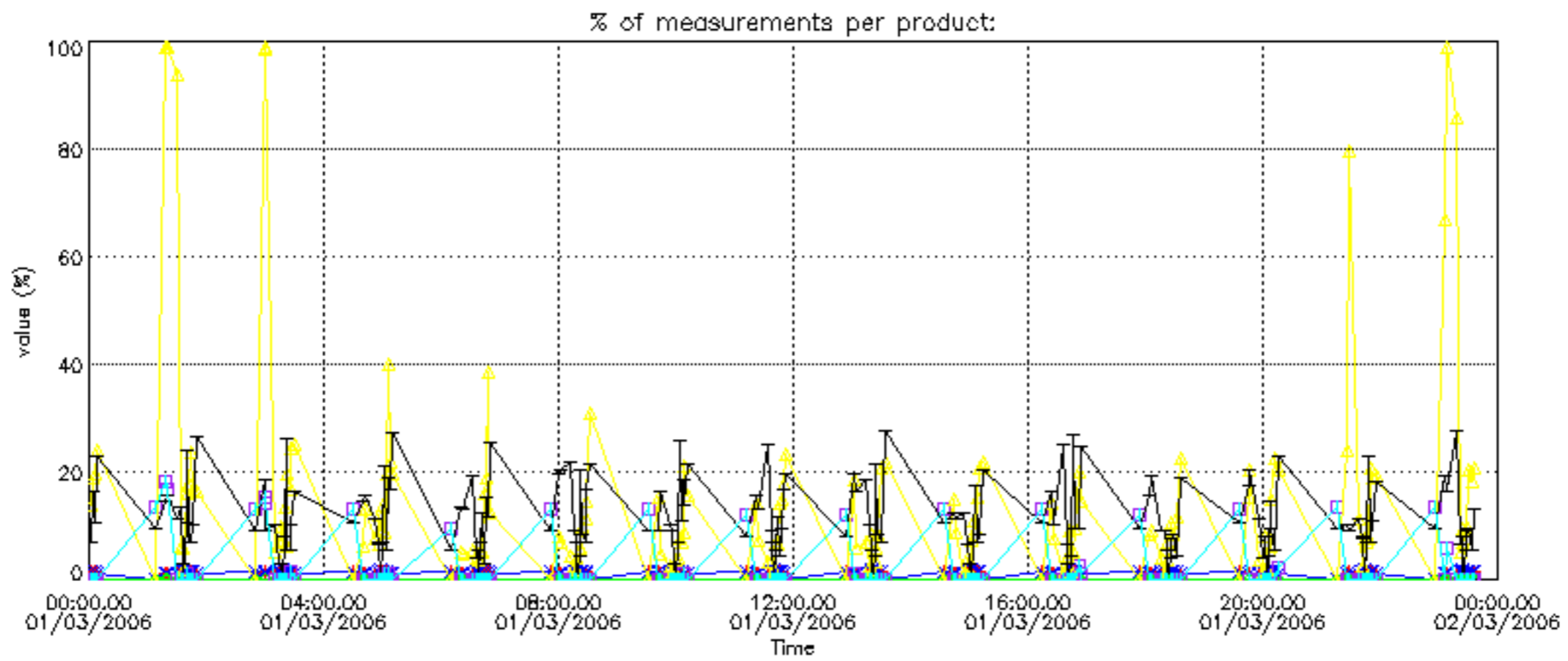
Percentage of flagged data per NO2 profile

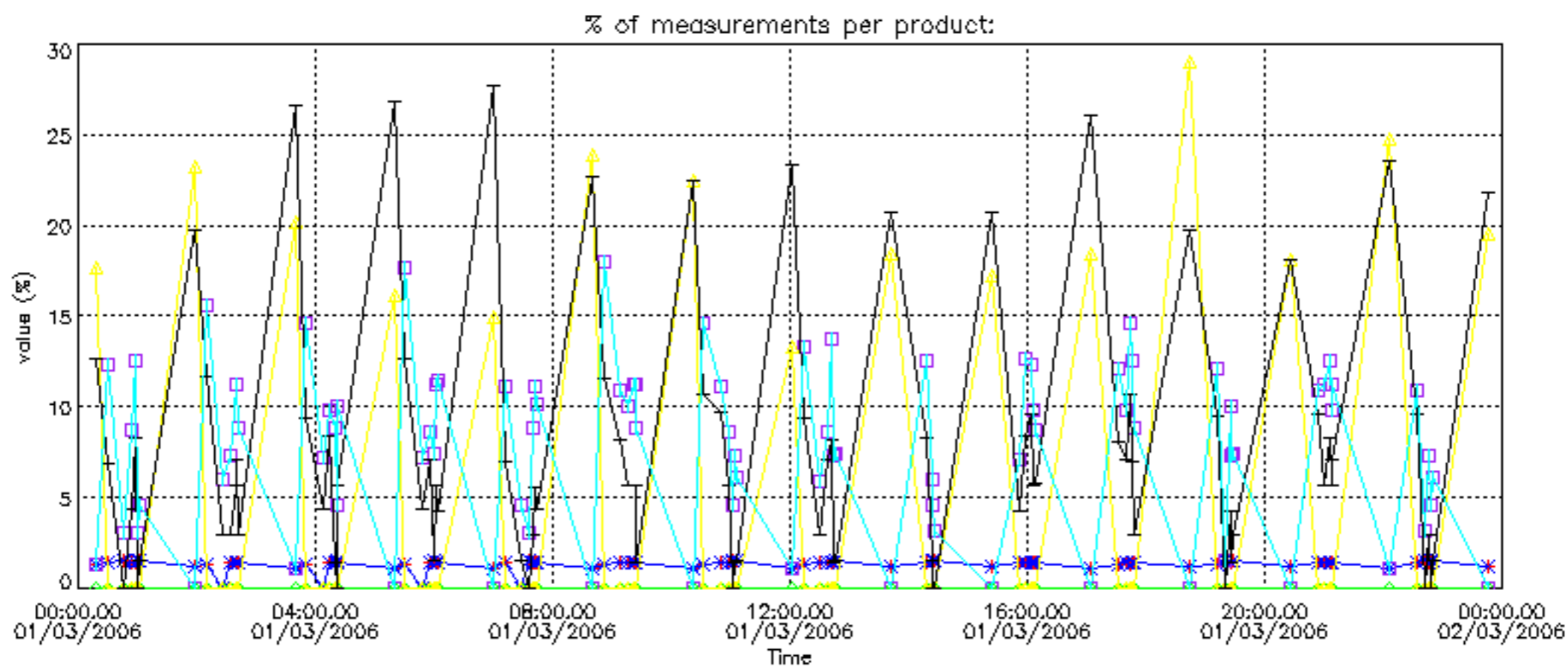


Percentage of flagged data per NO3 profile

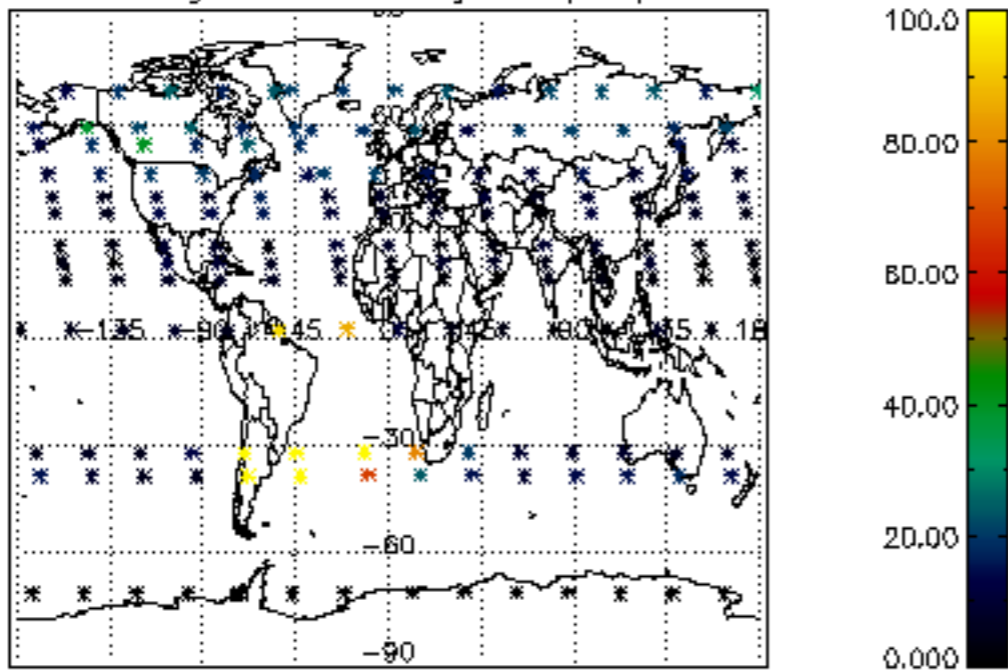








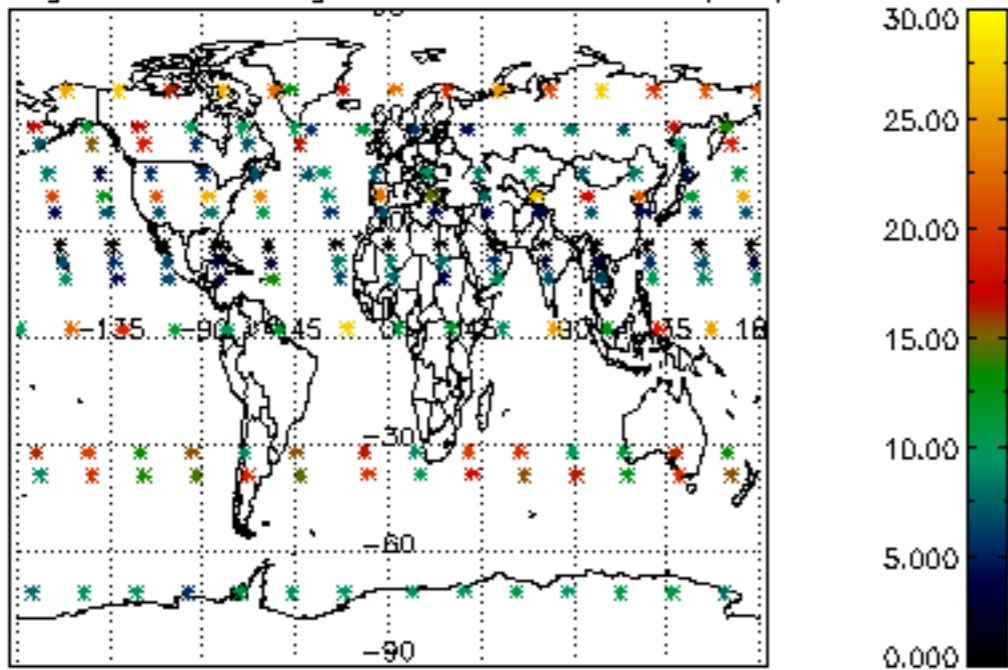
Percentage of cosmic ray hits per profile



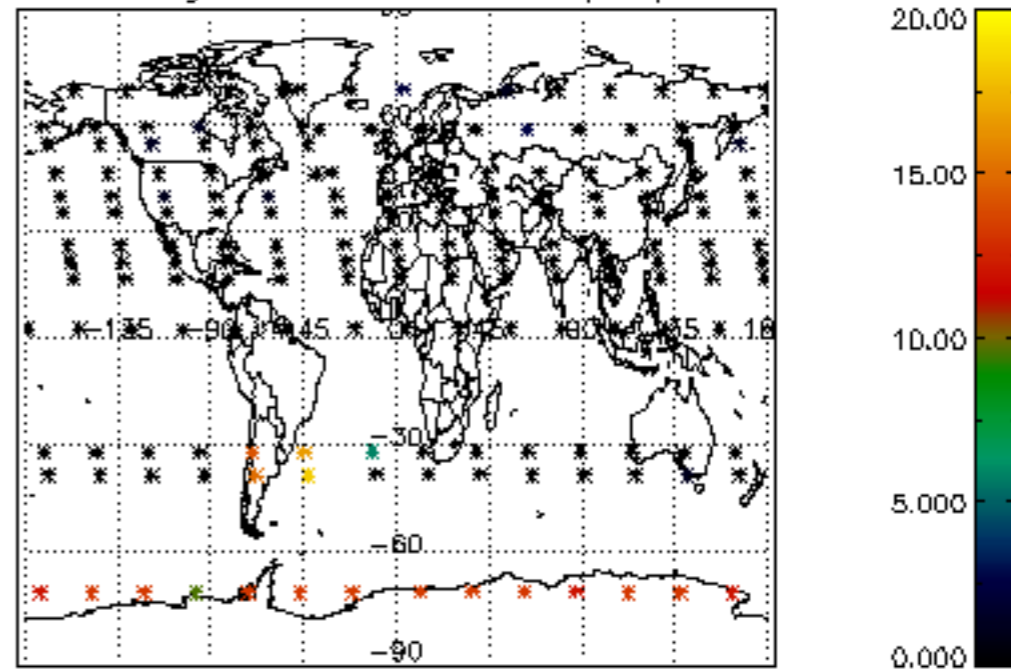
Percentage of datation errors per profile



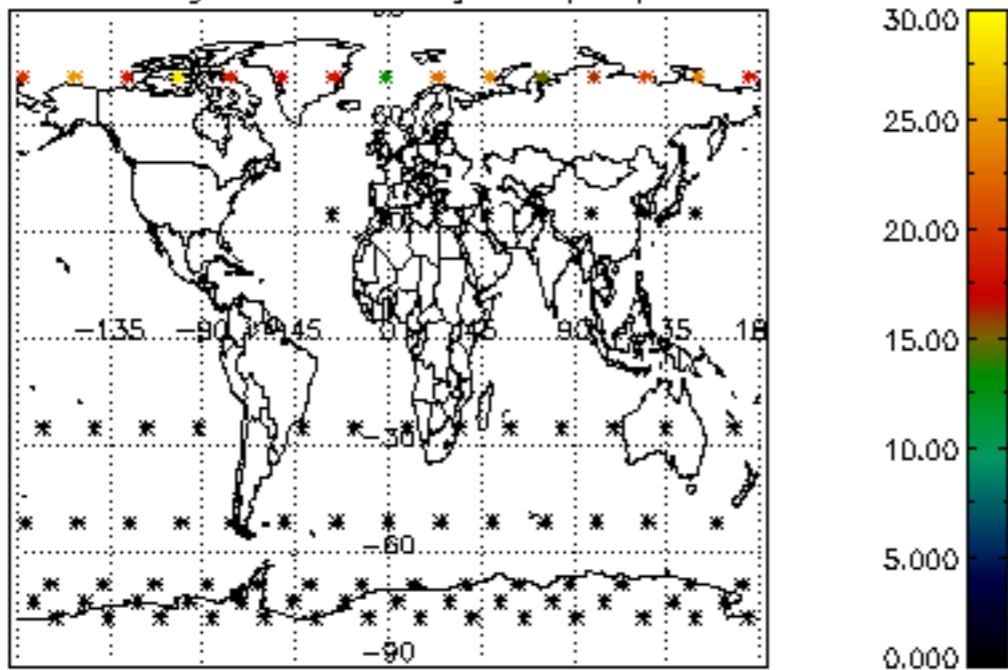
Percentage of star falling outside central band per profile



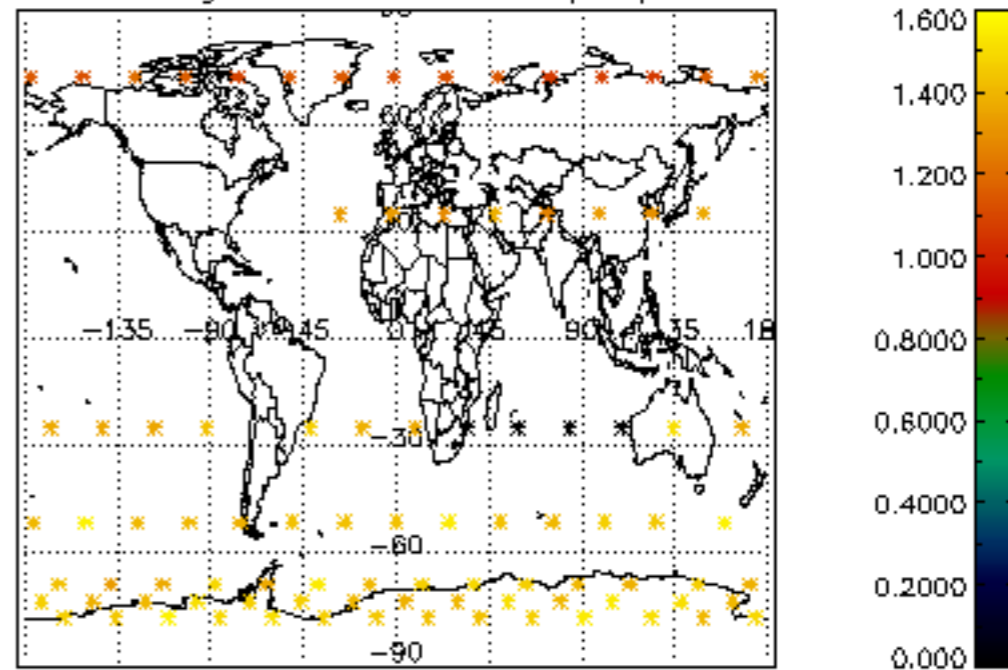
Percentage of saturation errors per profile



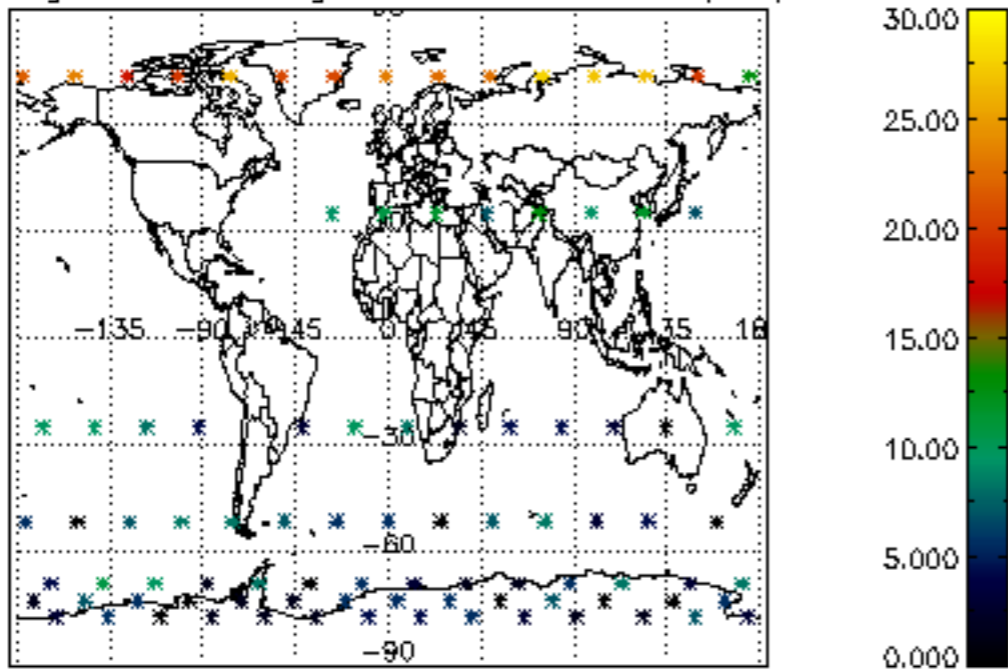
Percentage of cosmic ray hits per profile



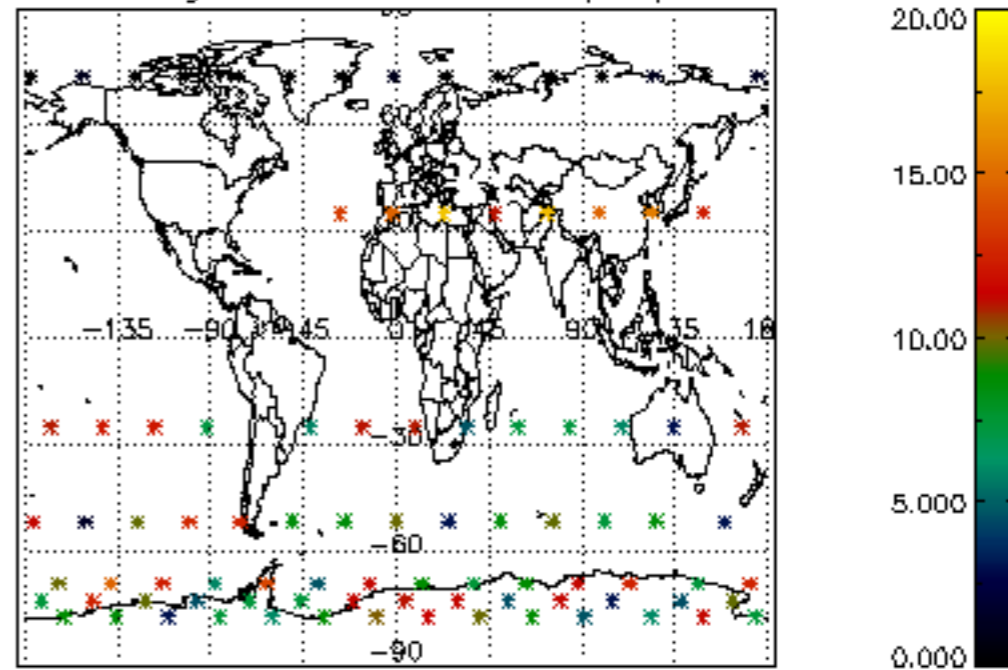
Percentage of datation errors per profile

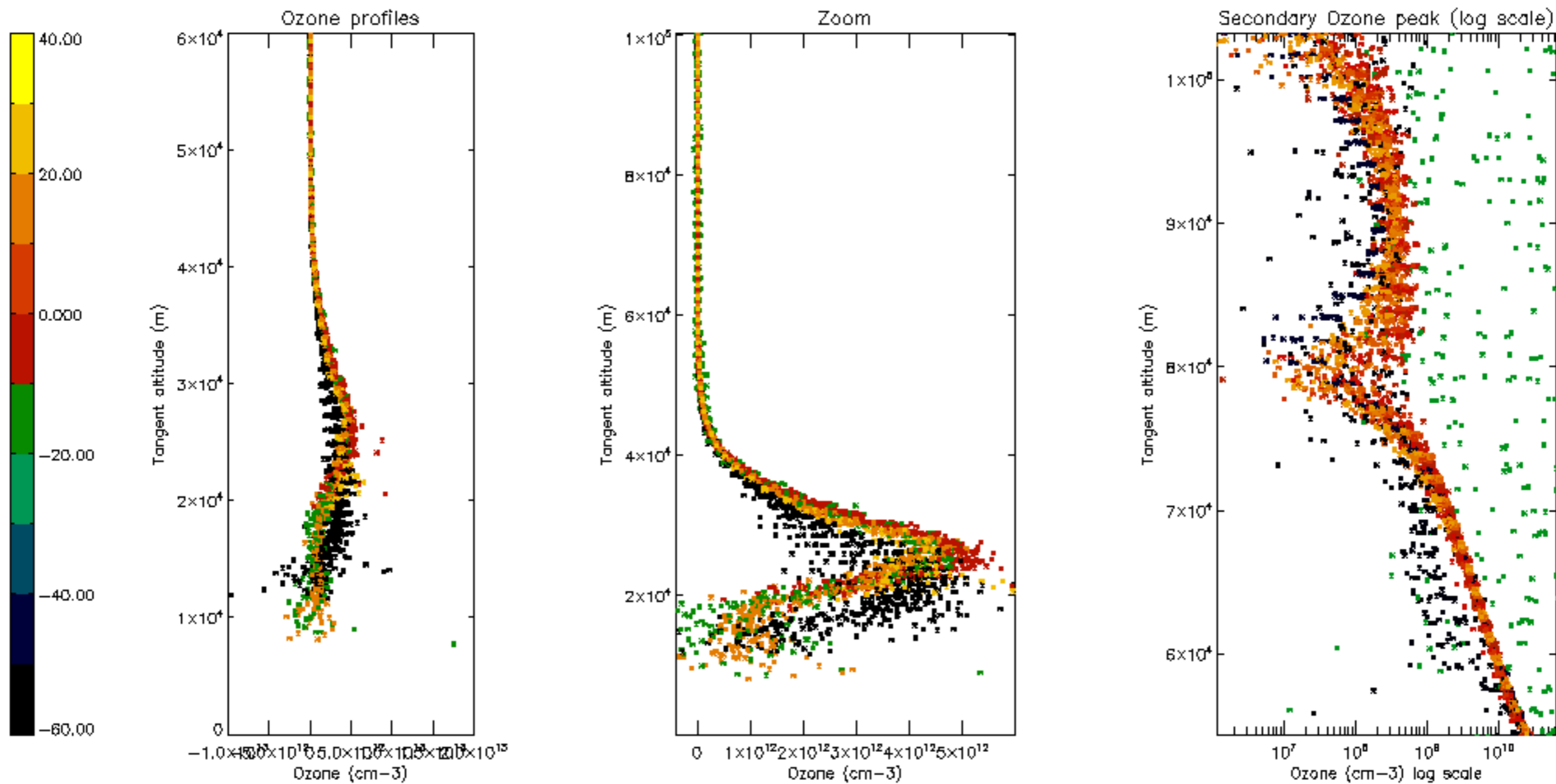


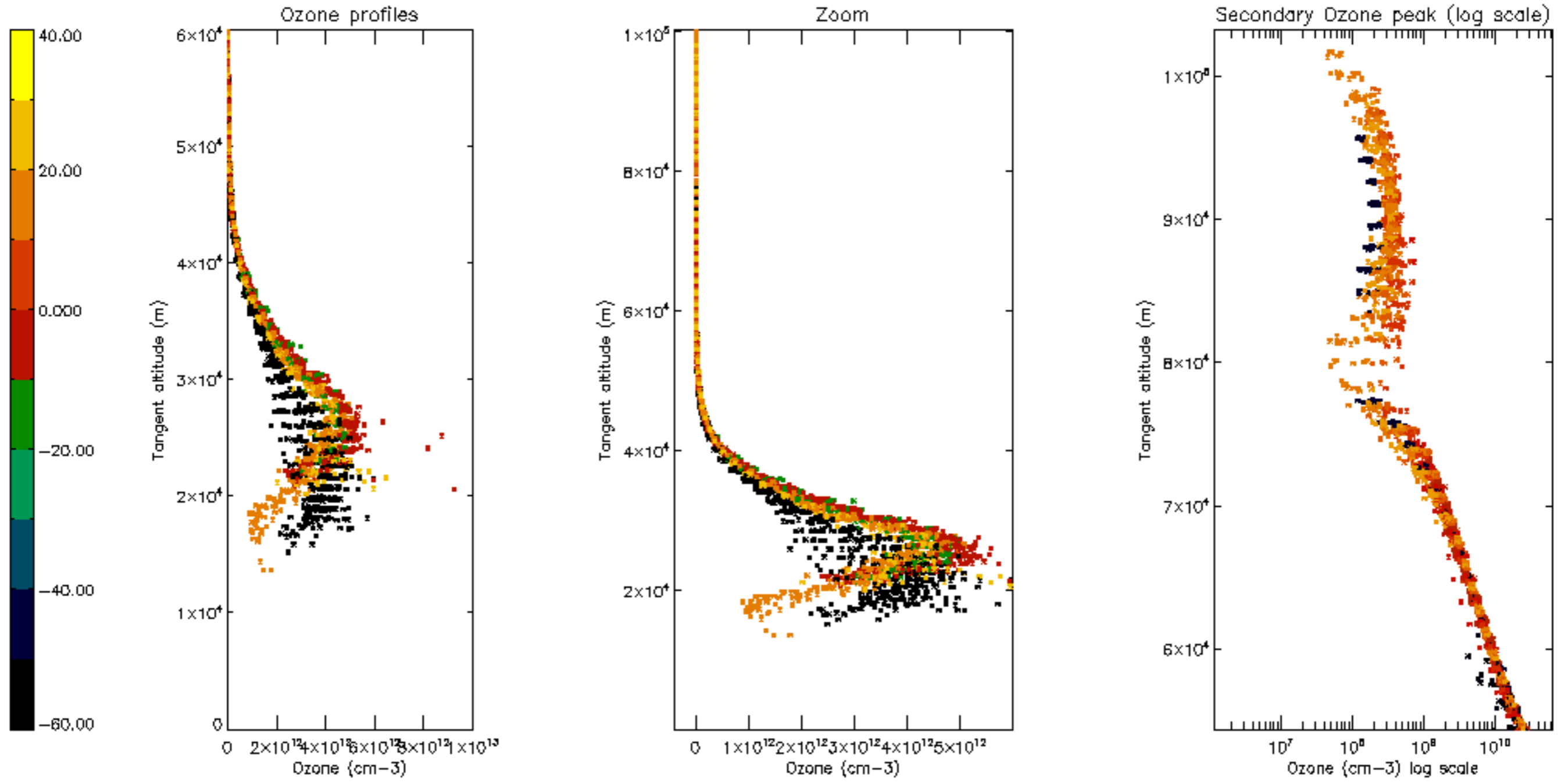
Percentage of star falling outside central band per profile

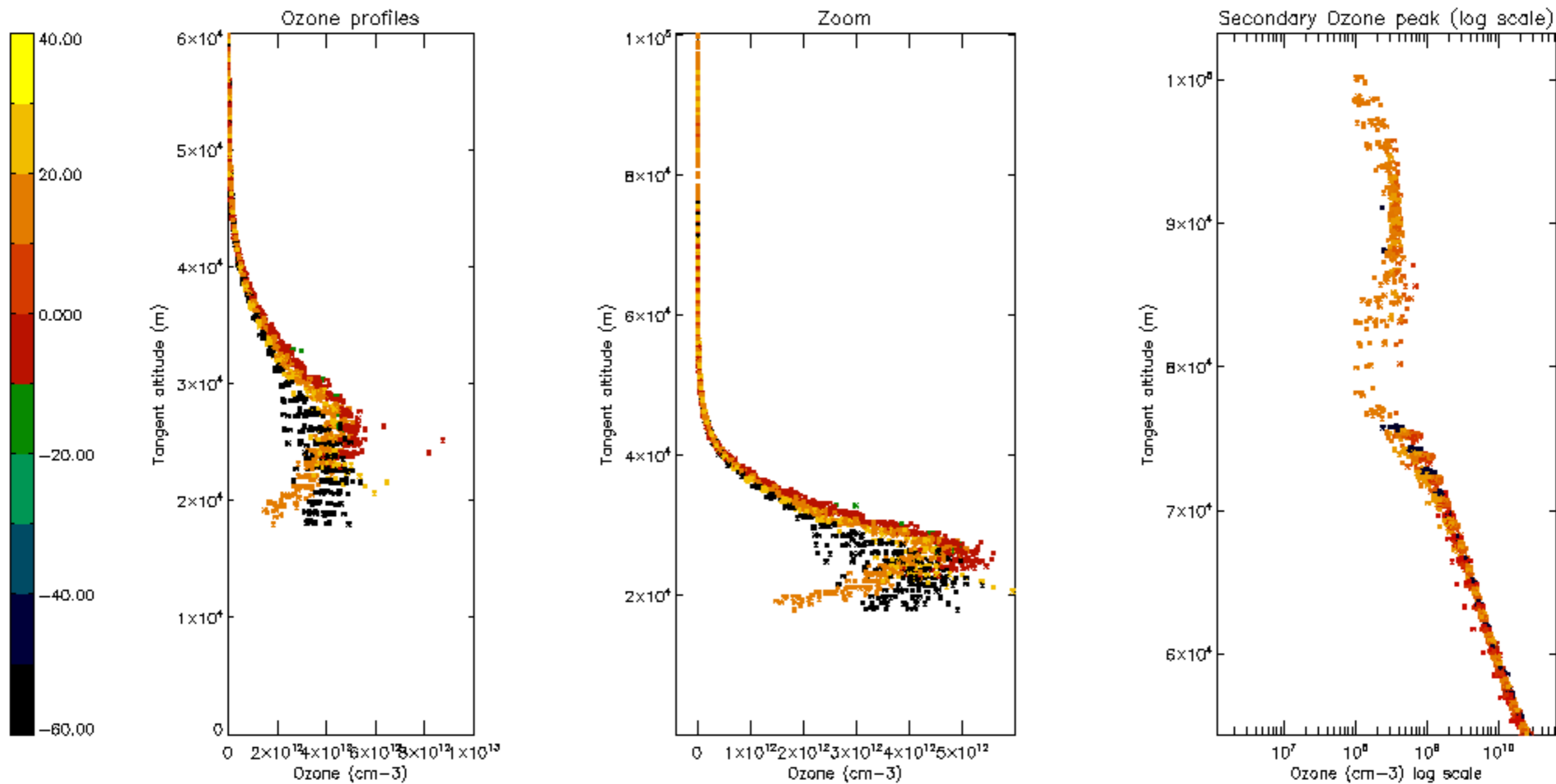


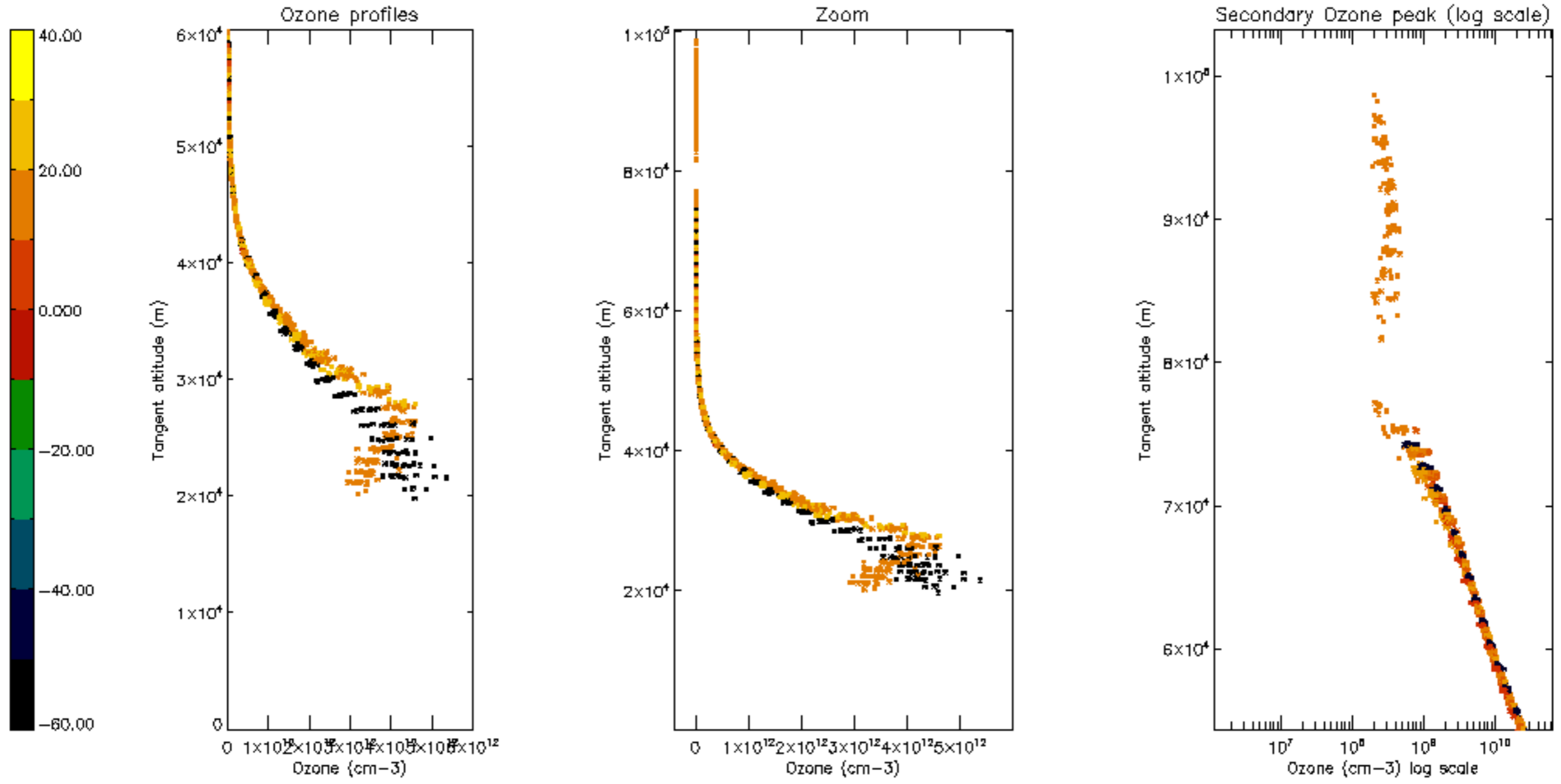
Percentage of saturation errors per profile



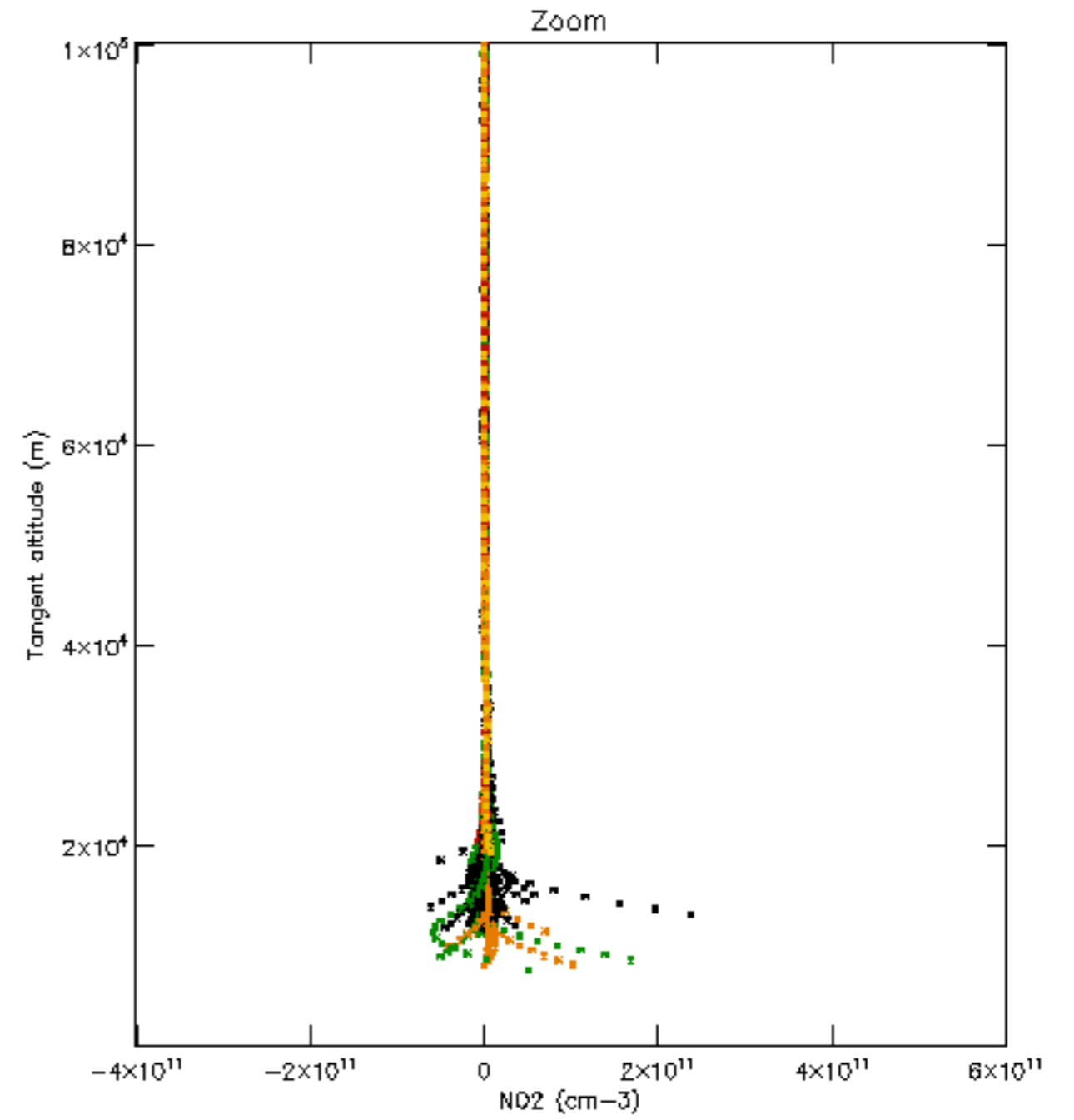
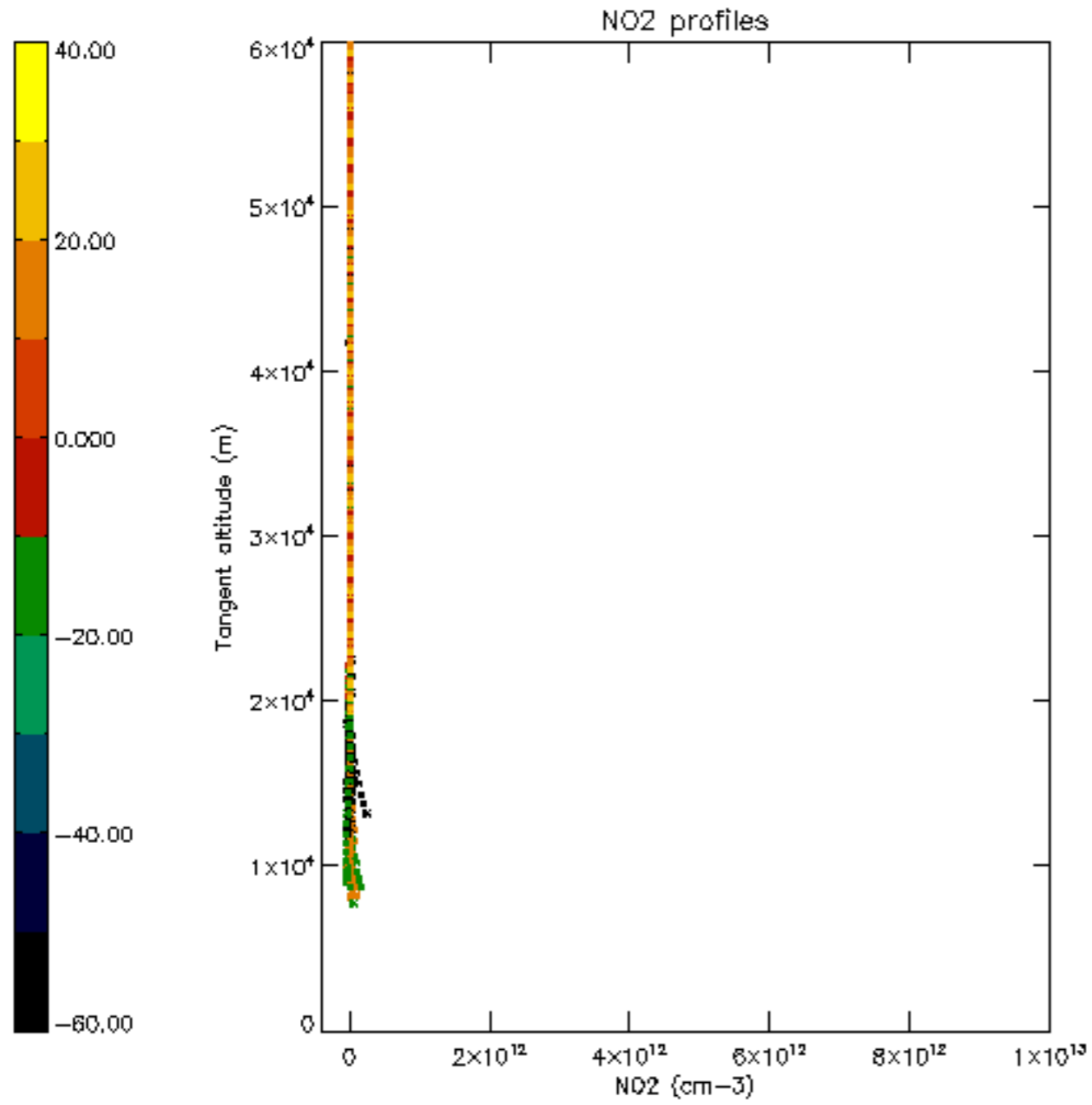


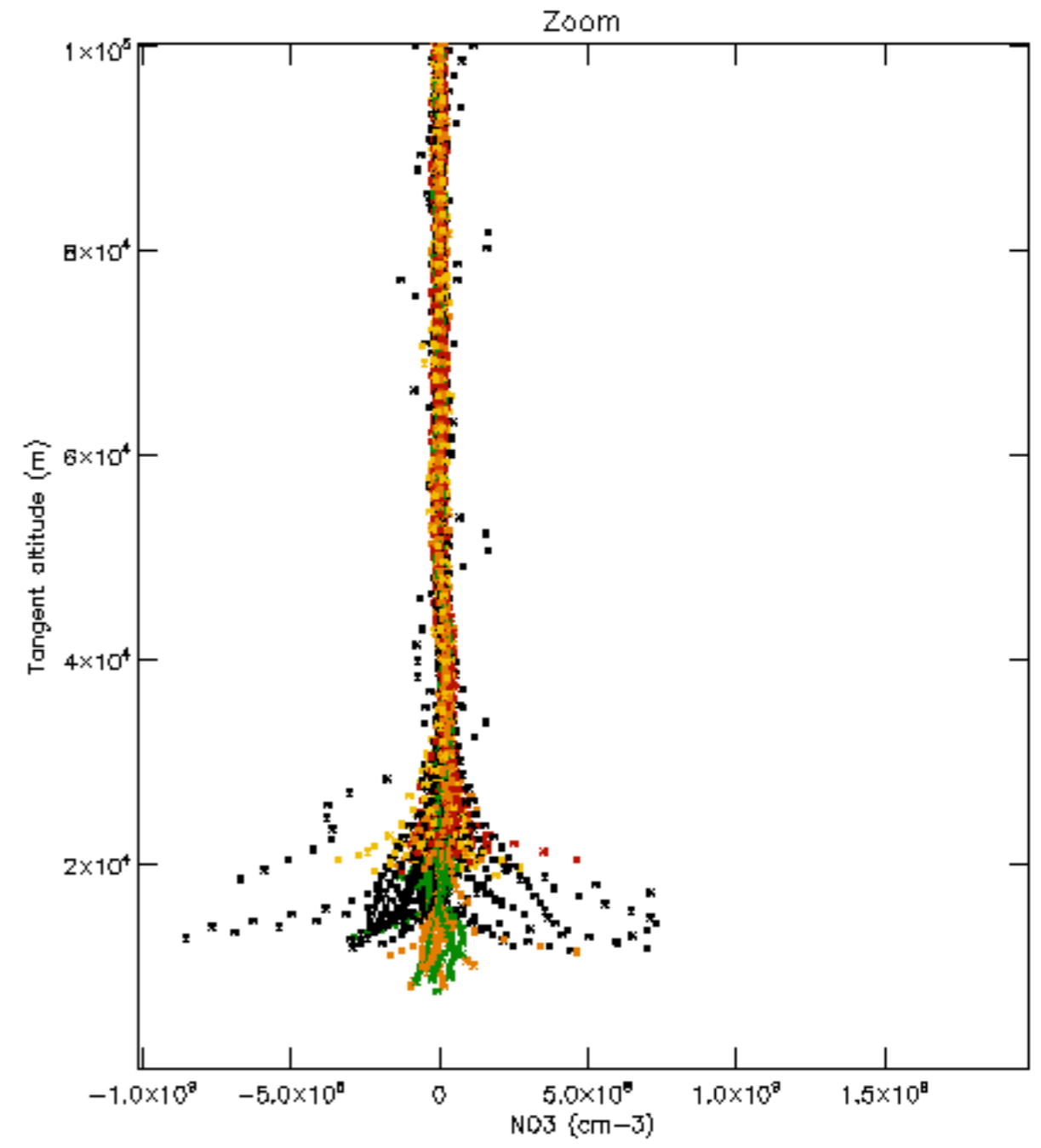
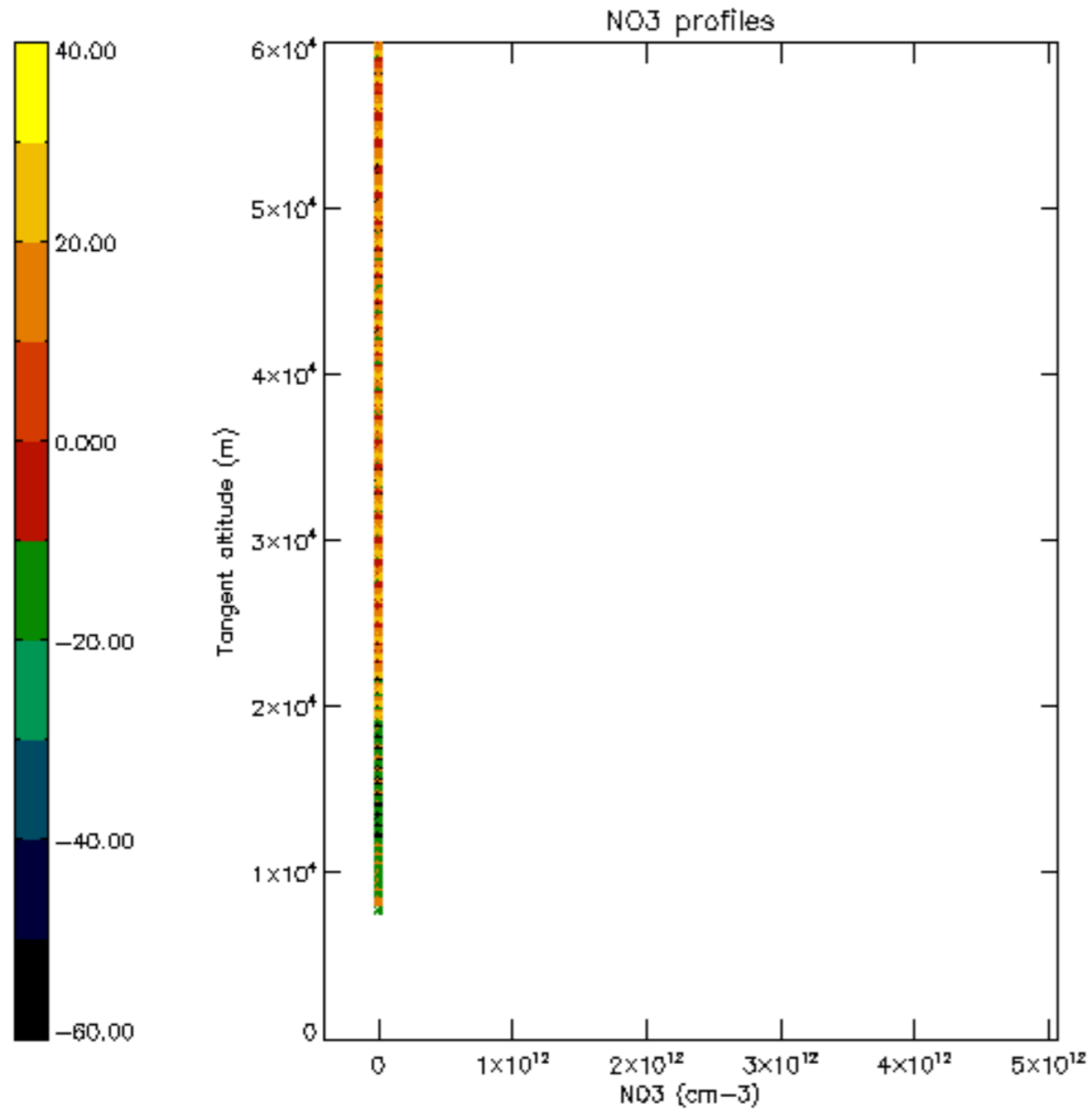


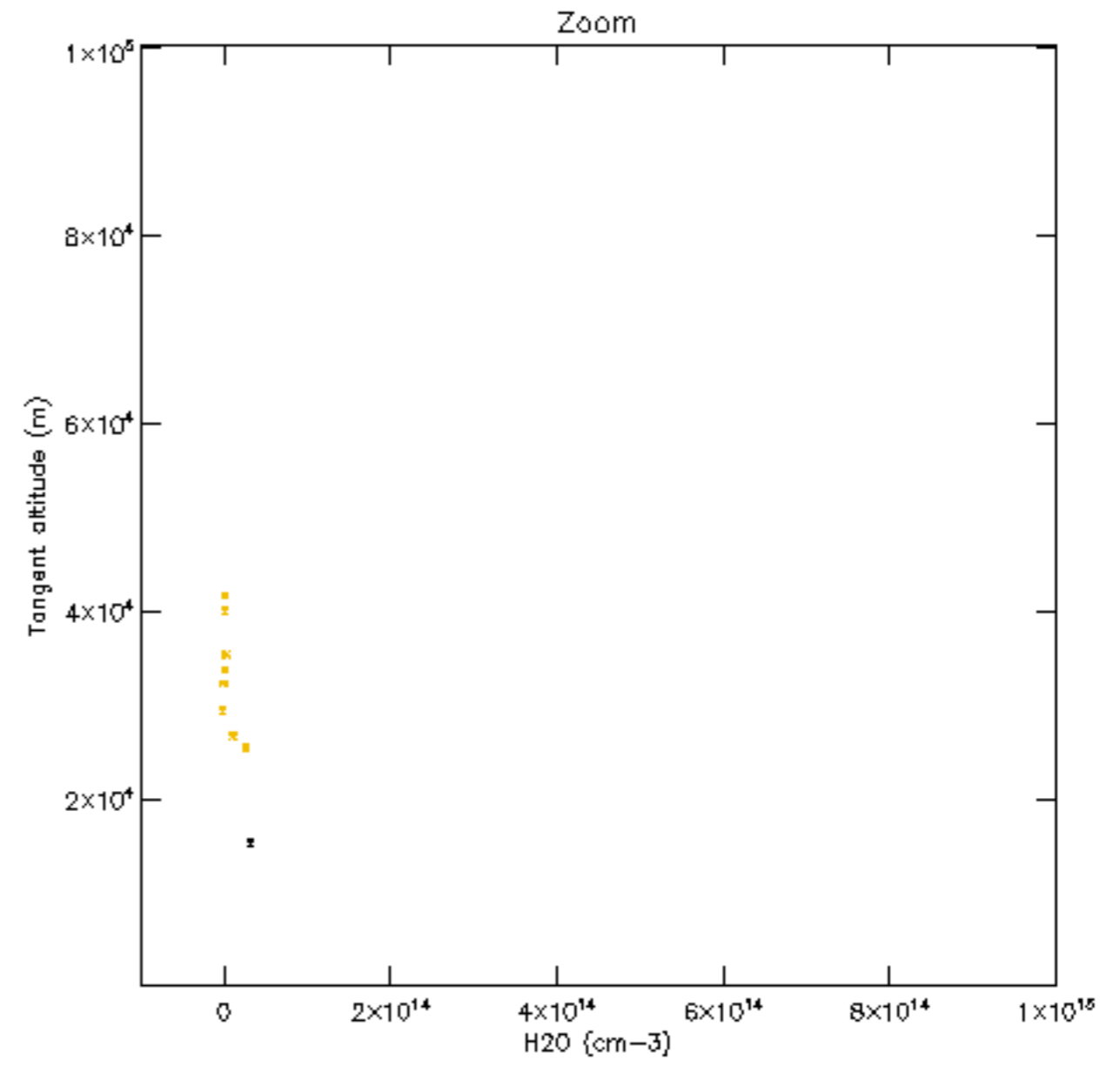
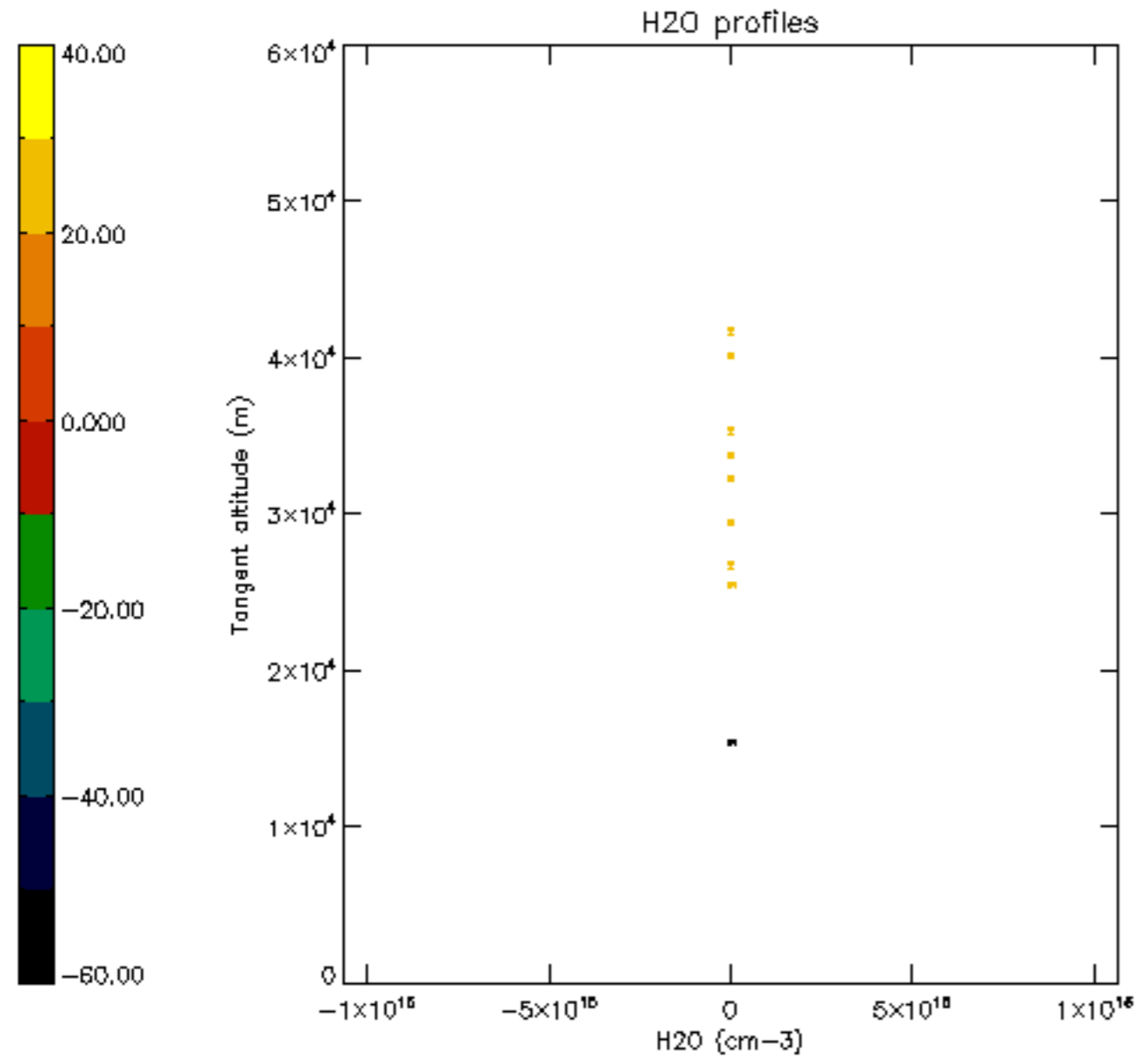


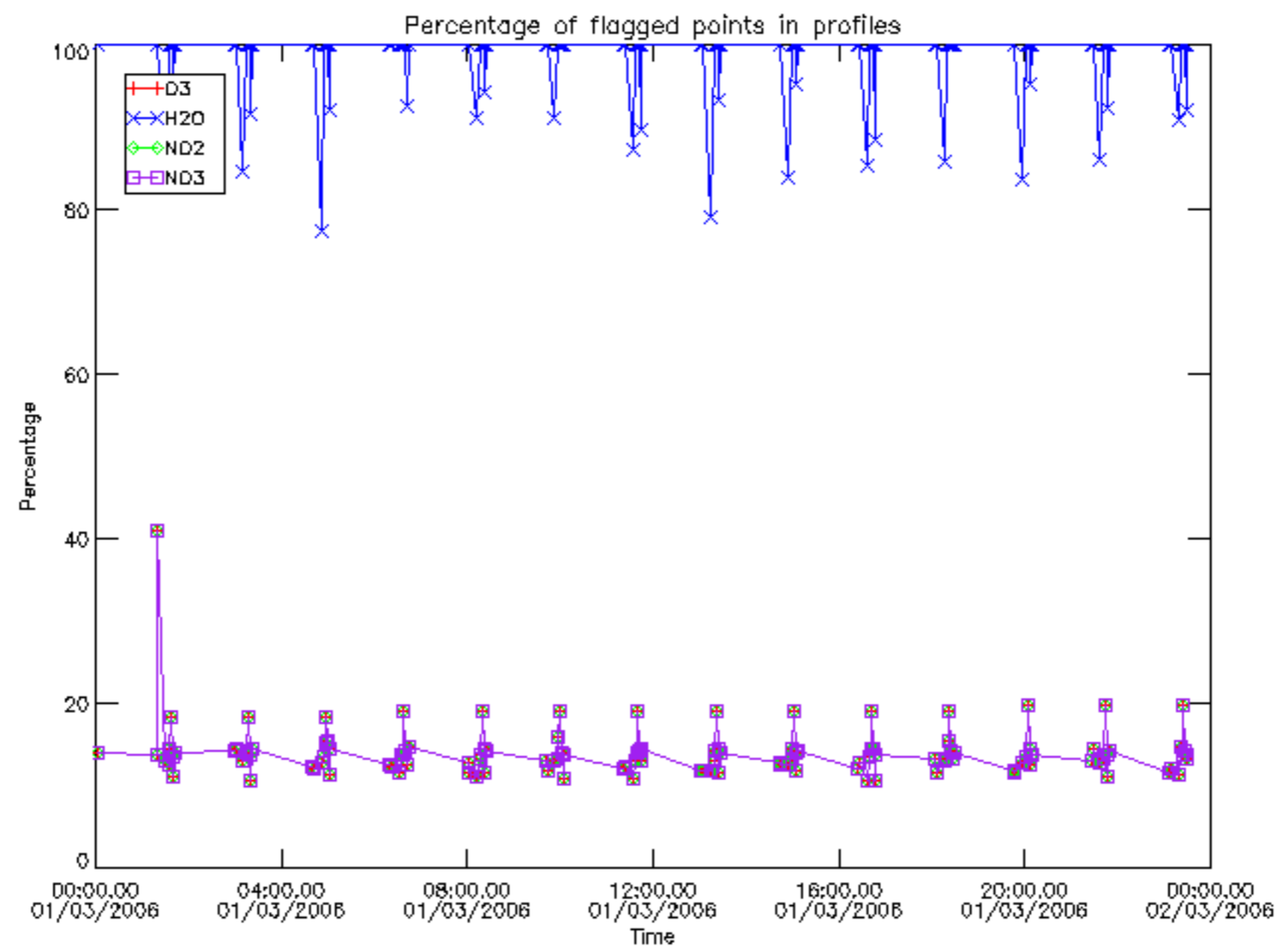




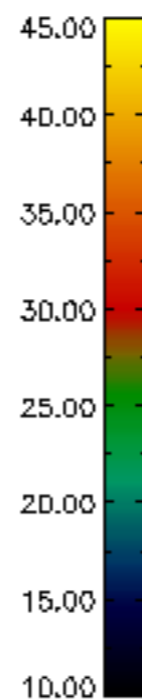
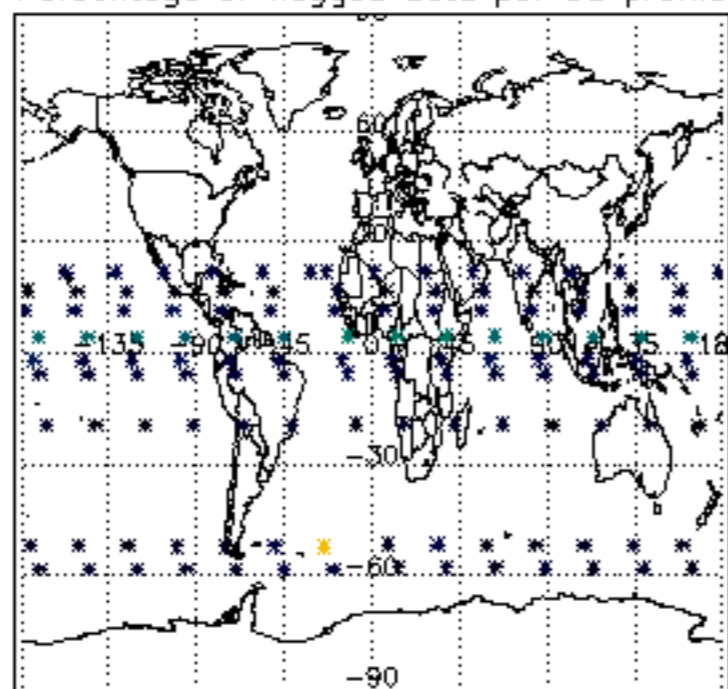




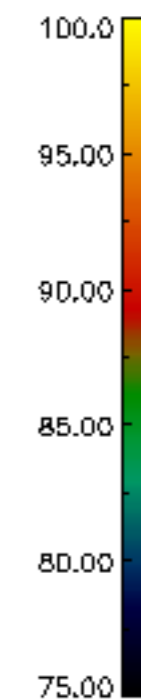
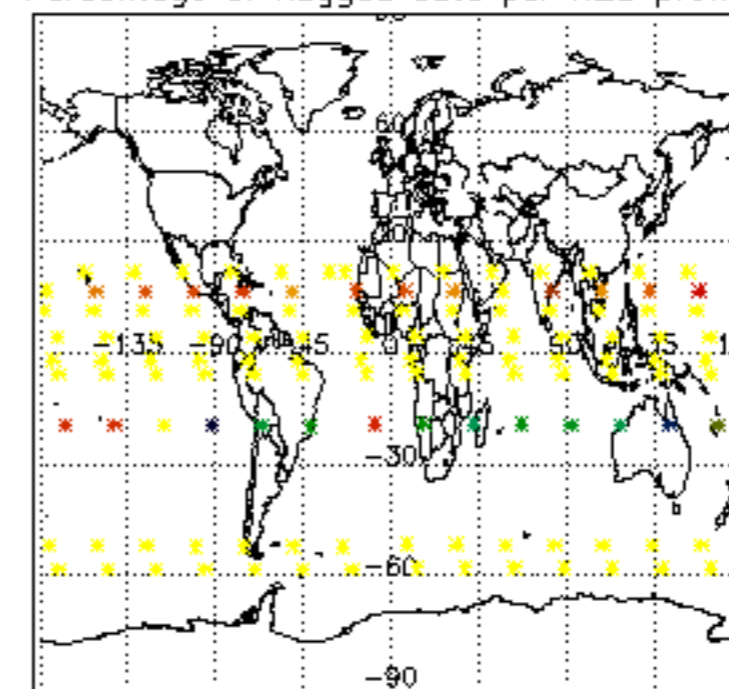




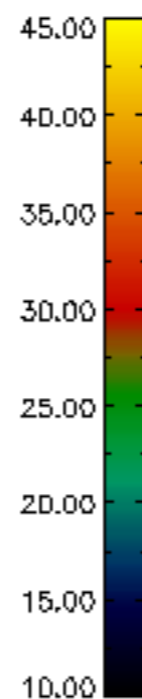
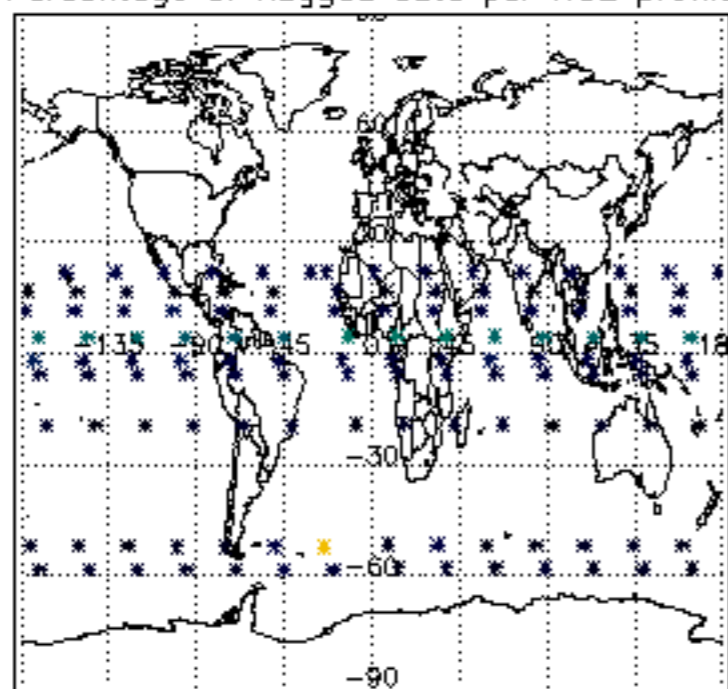
Percentage of flagged data per D3 profile



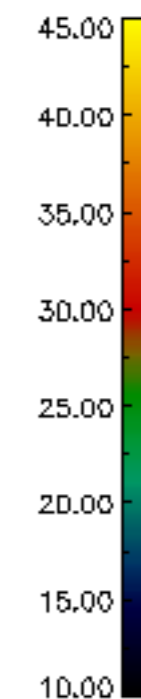
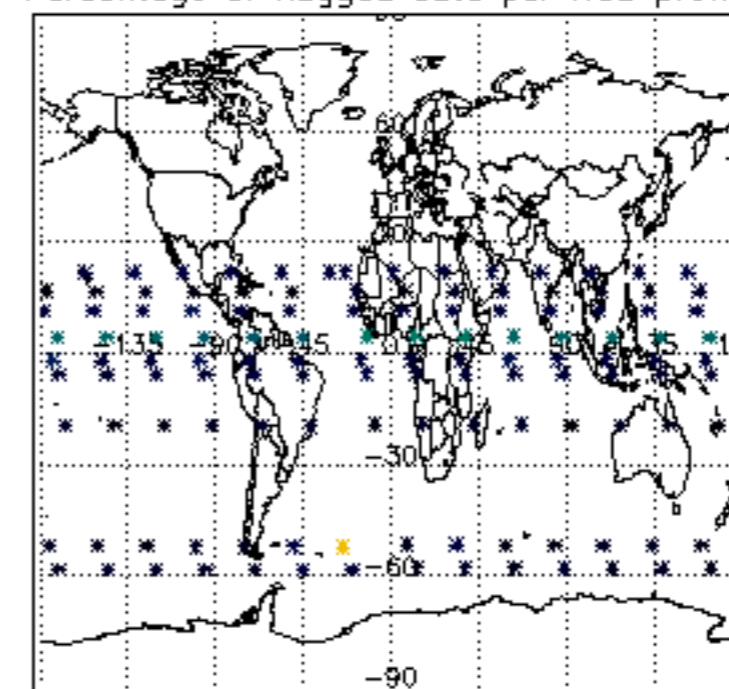
Percentage of flagged data per H2O profile

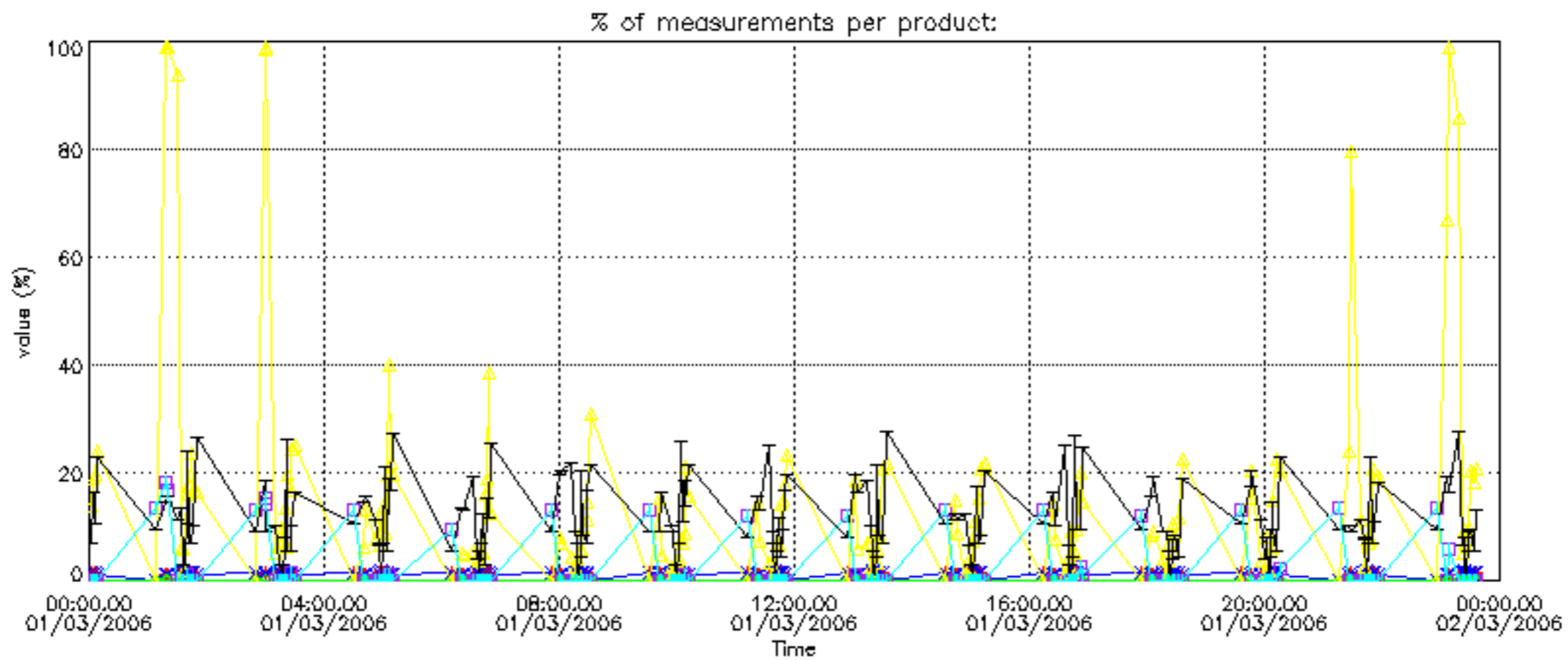


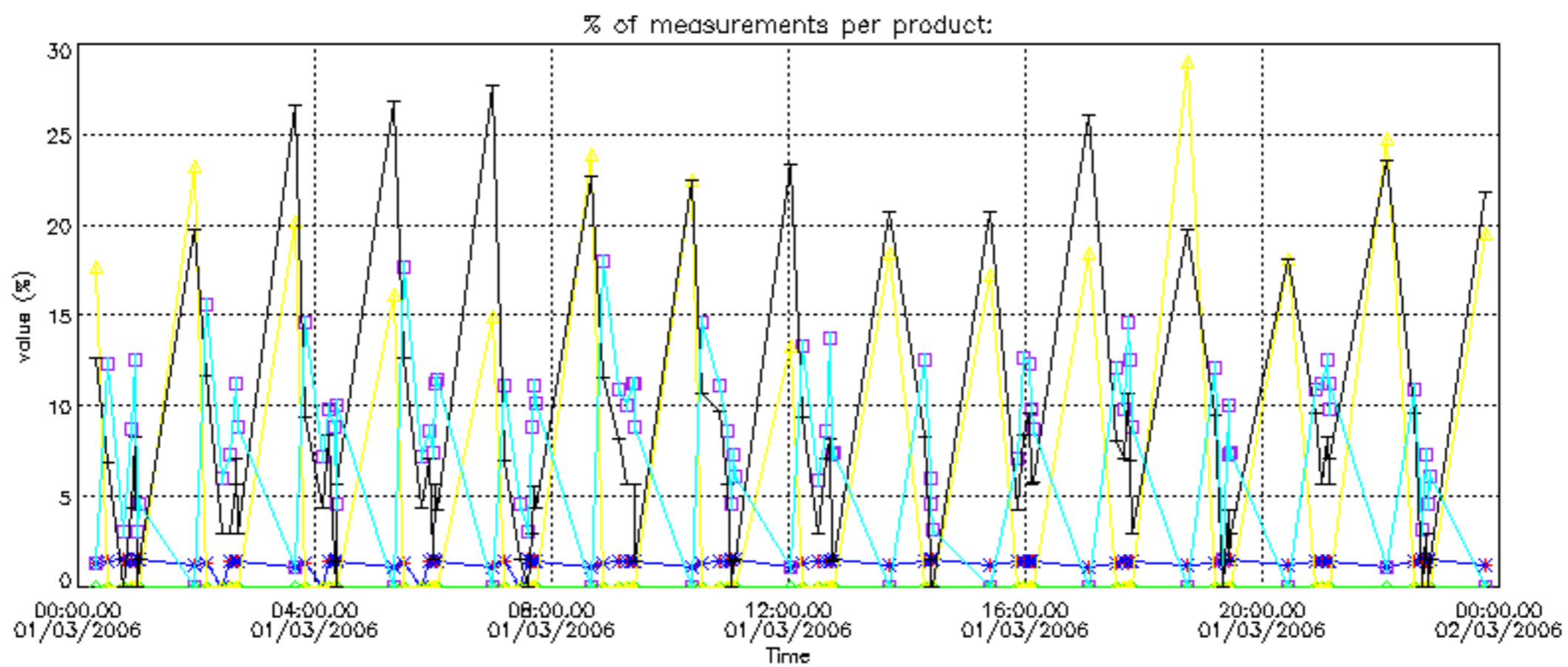
Percentage of flagged data per NO2 profile



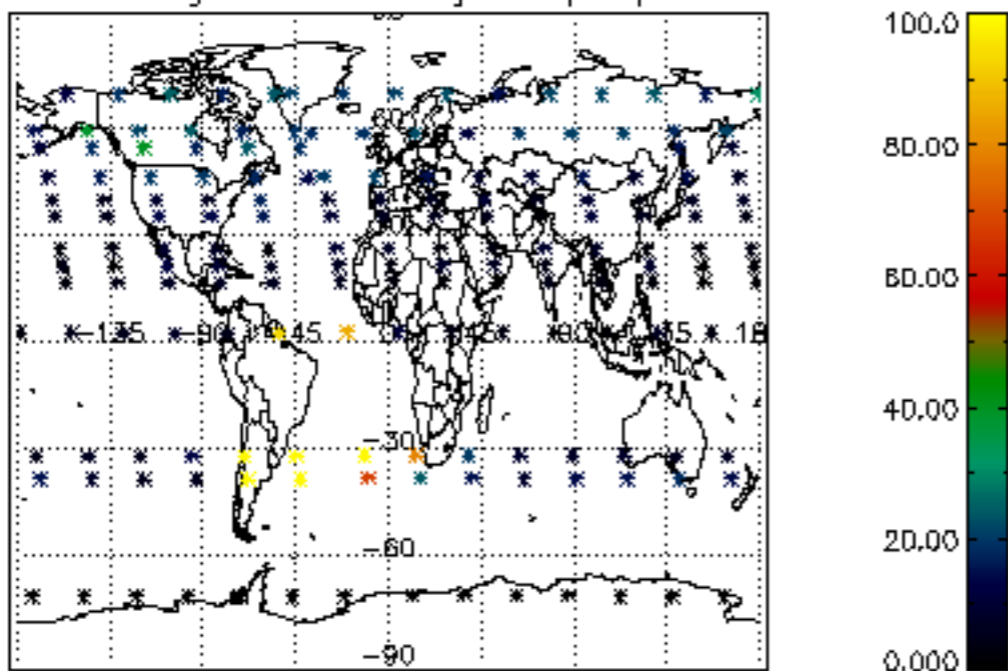
Percentage of flagged data per NO3 profile



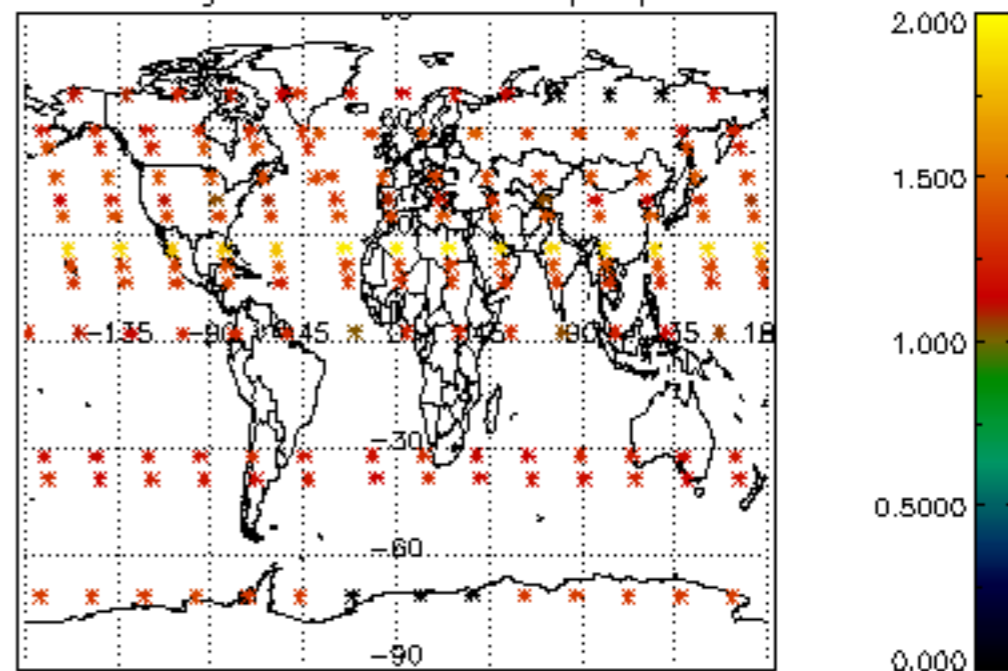




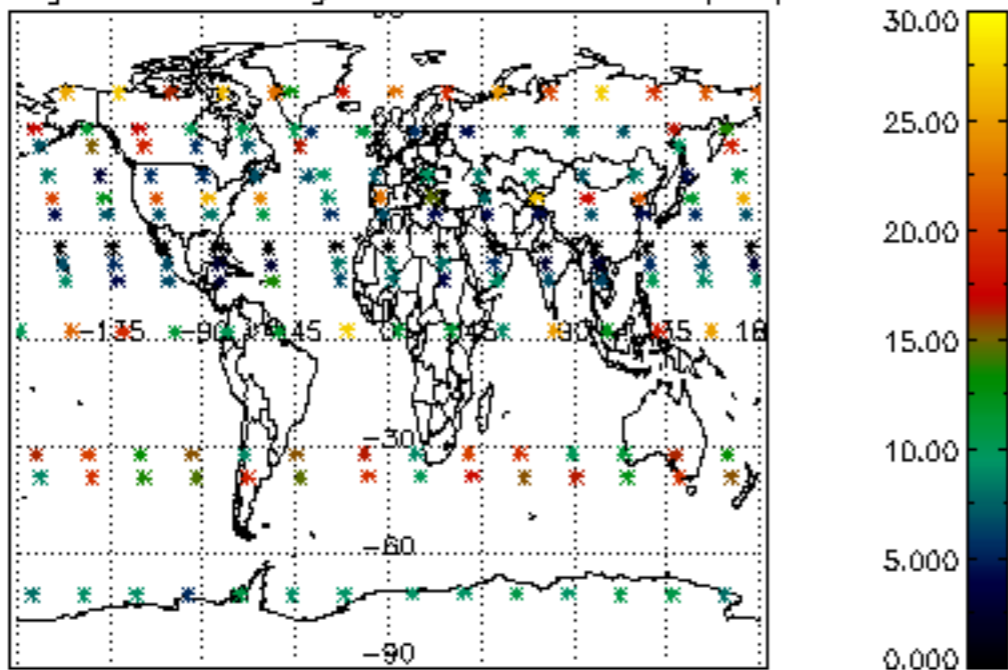
Percentage of cosmic ray hits per profile



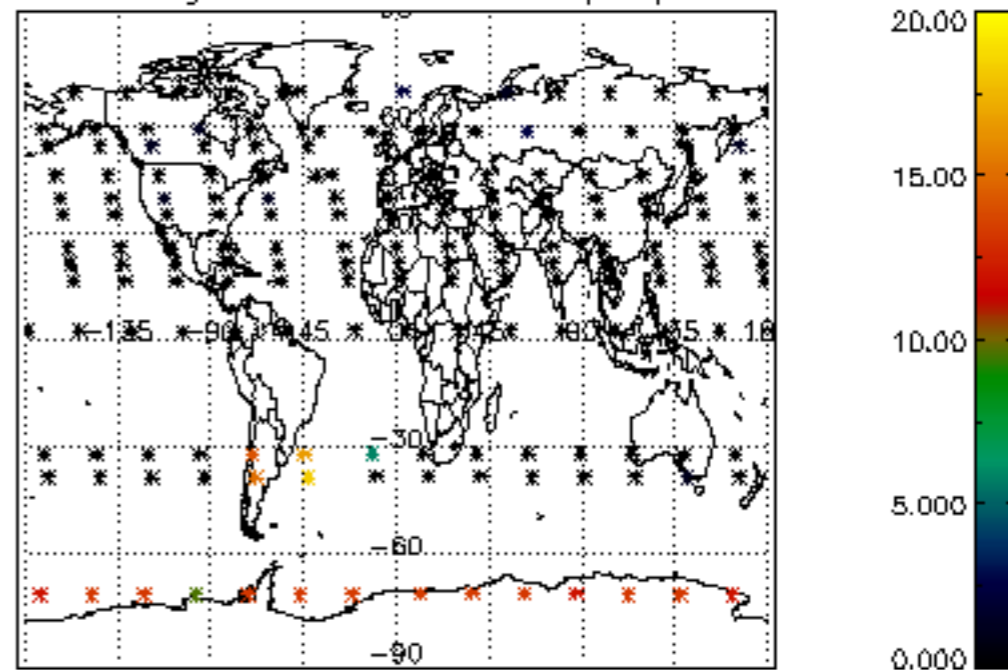
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

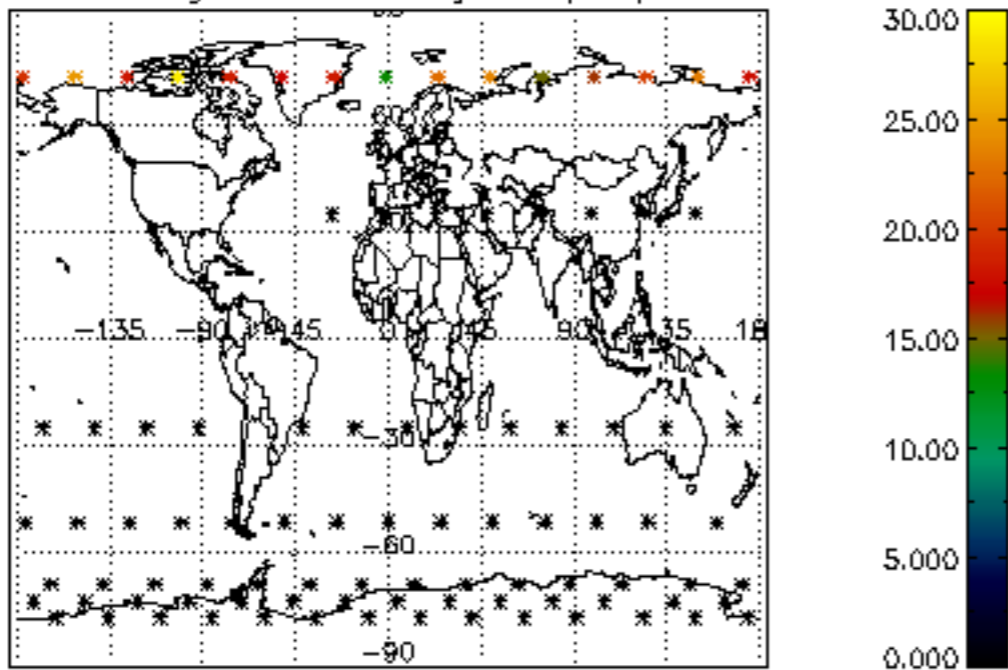


Percentage of saturation errors per profile

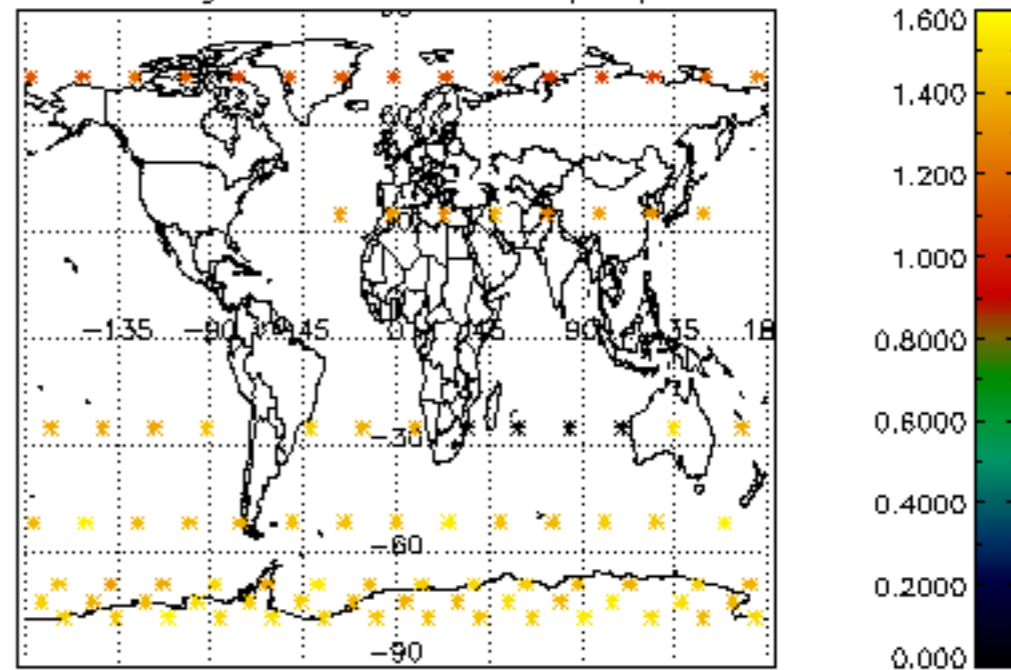




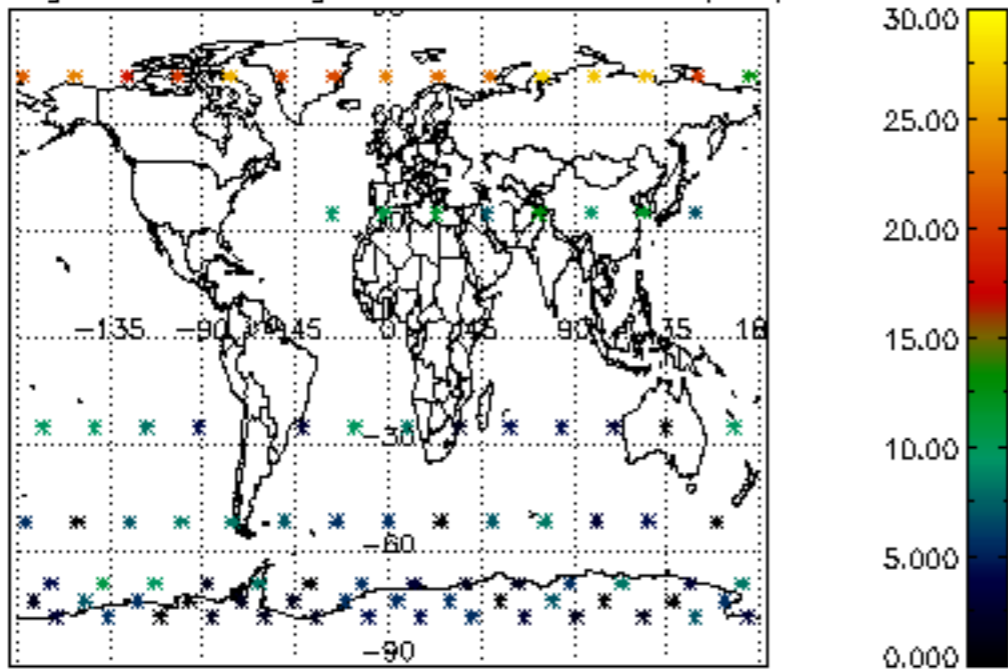
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

