

# 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](#)







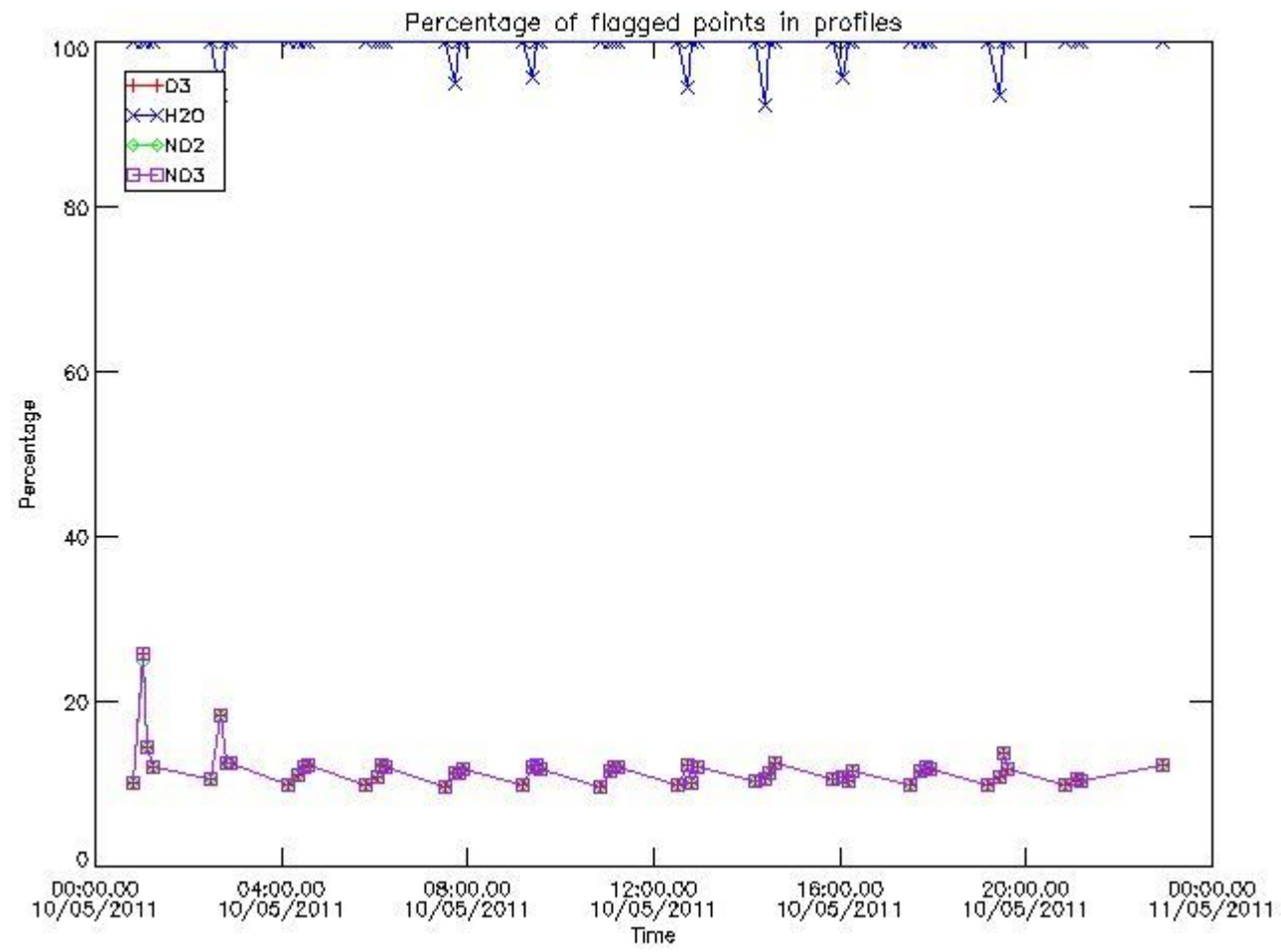




### 3. Quality information per product

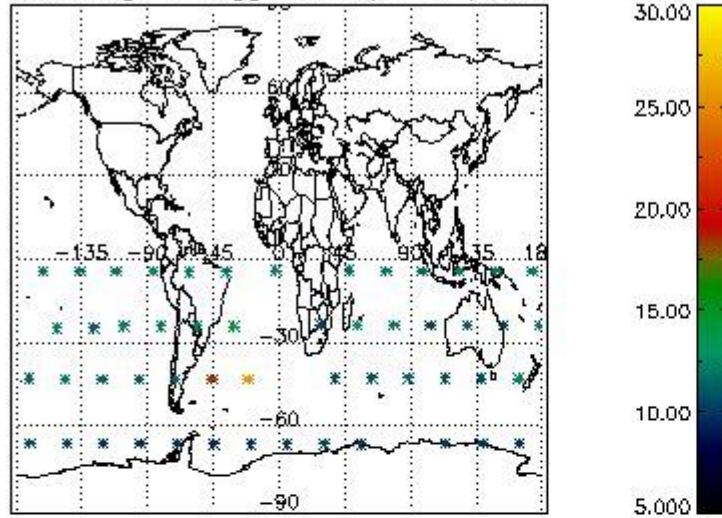
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

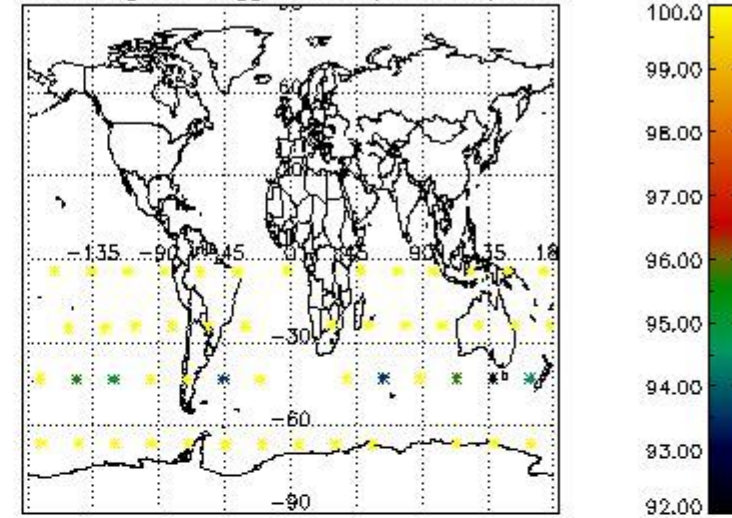


#### 3.2 Plot quality information per product (world map)

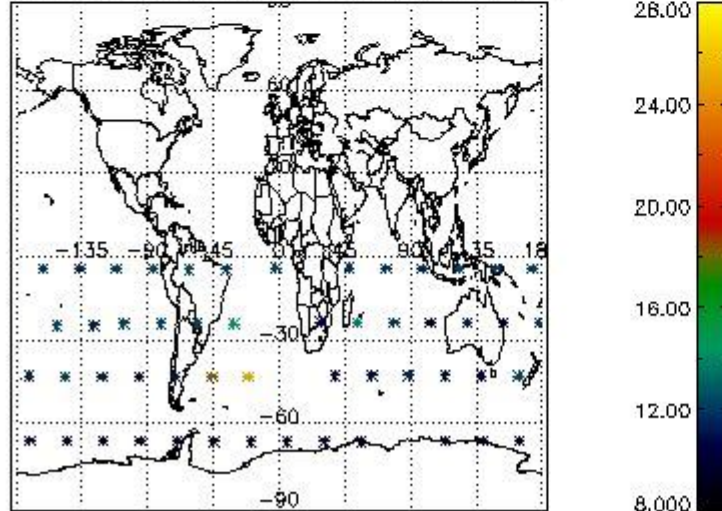
Percentage of flagged data per O3 profile



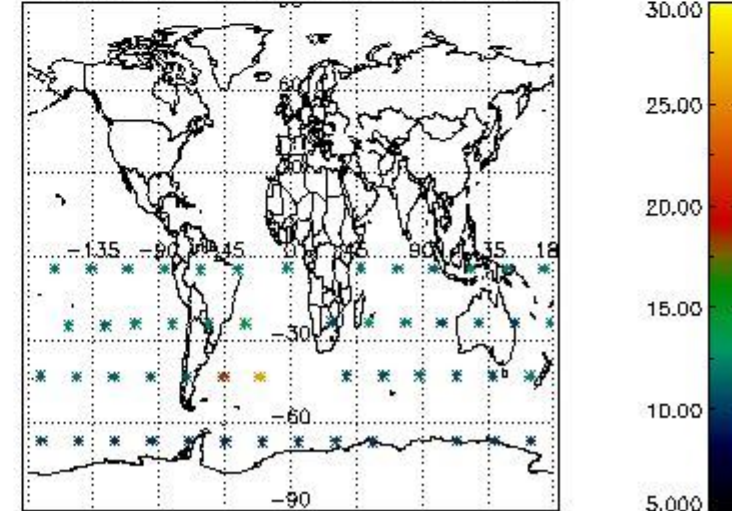
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



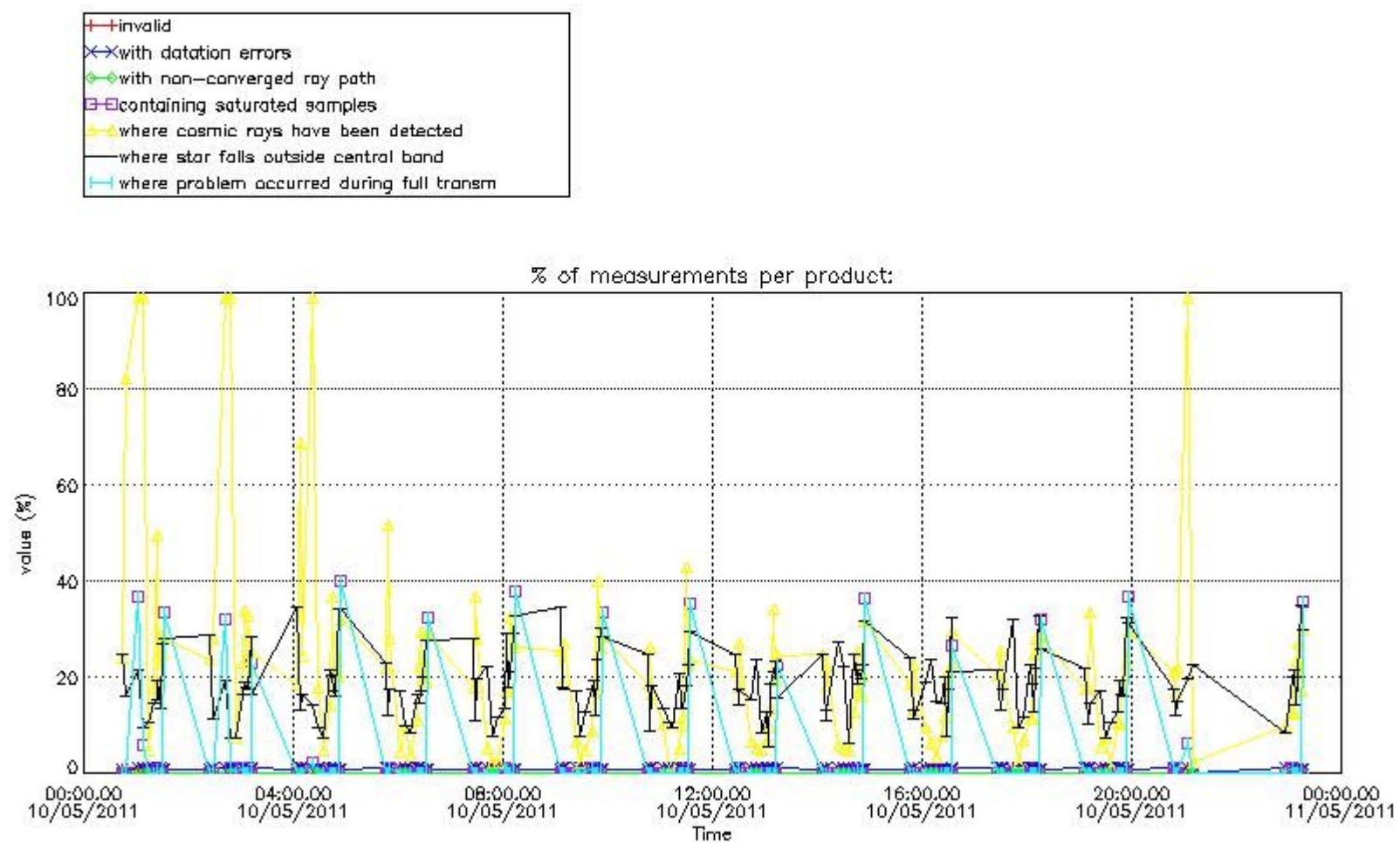
#### 4. Level 1 quality information per product

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.

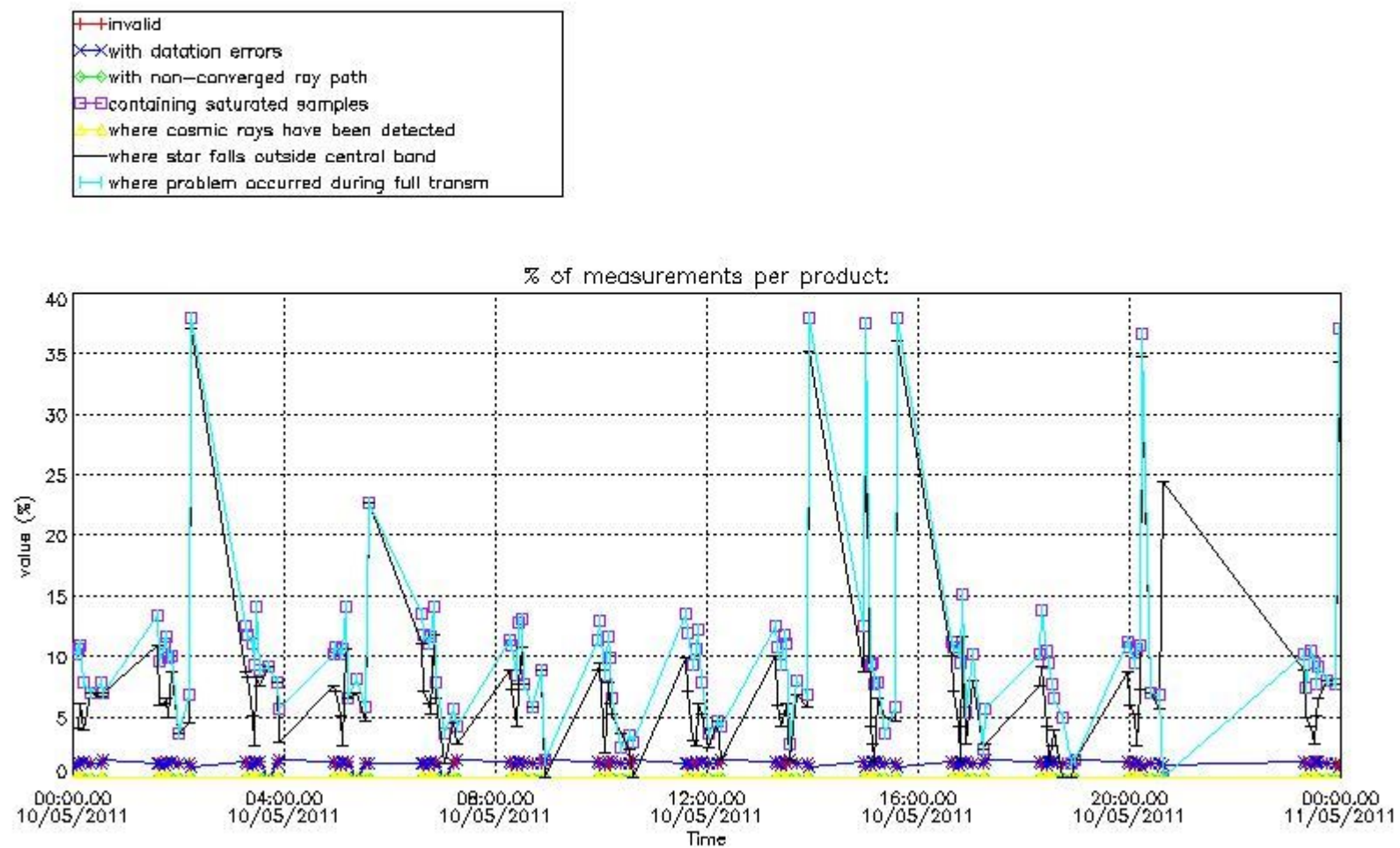
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

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



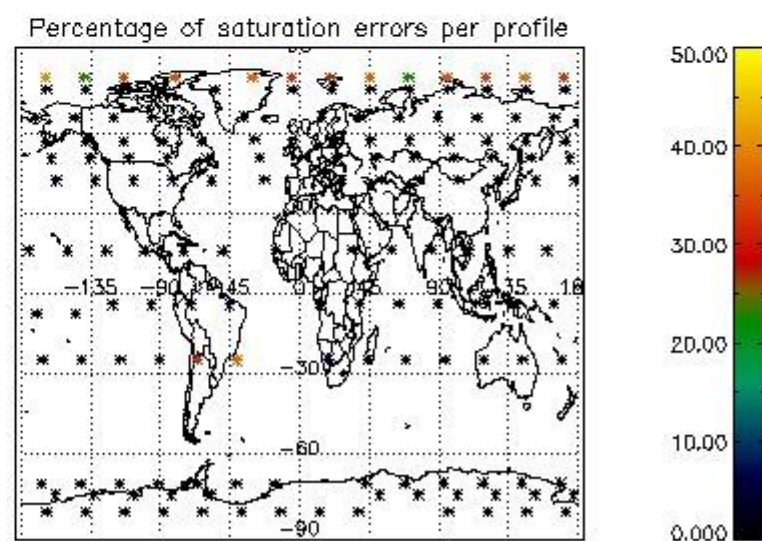
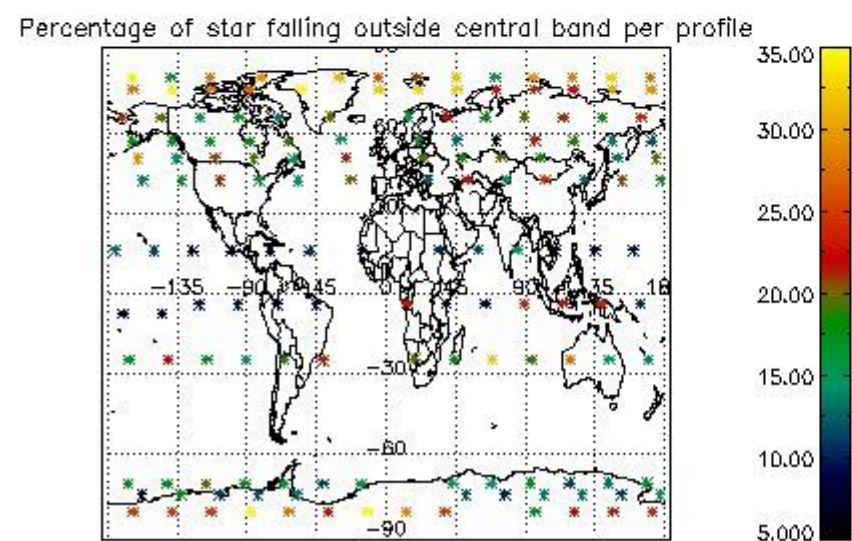
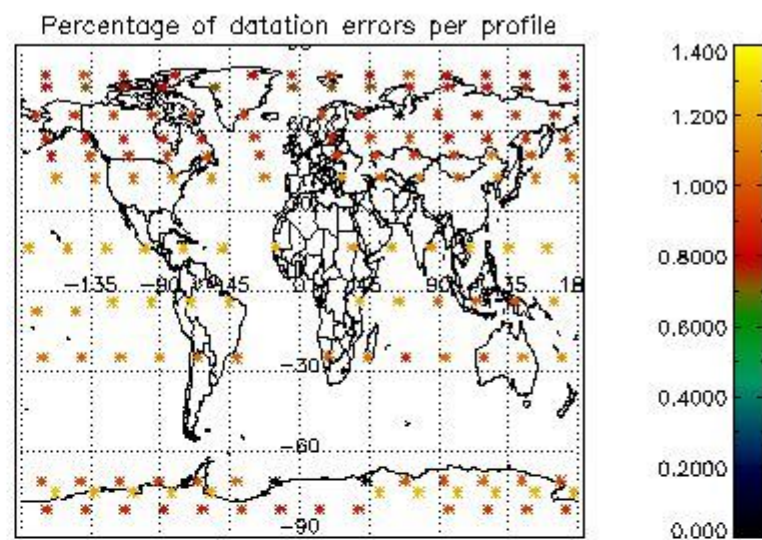
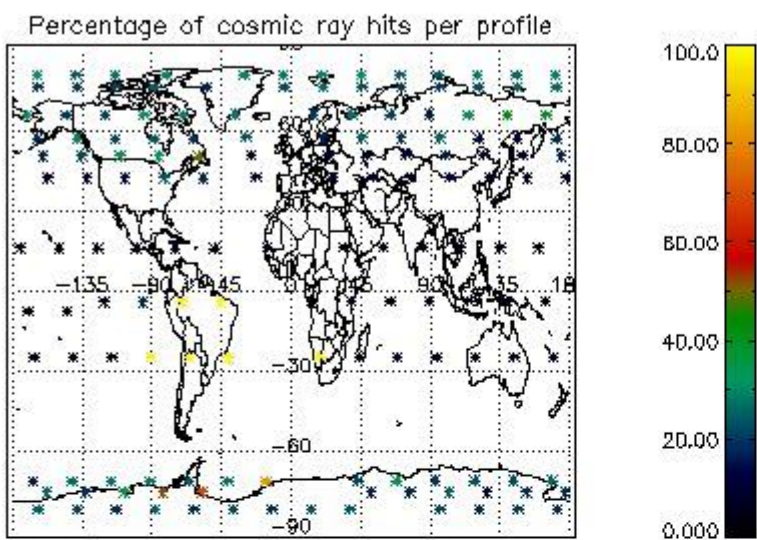


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

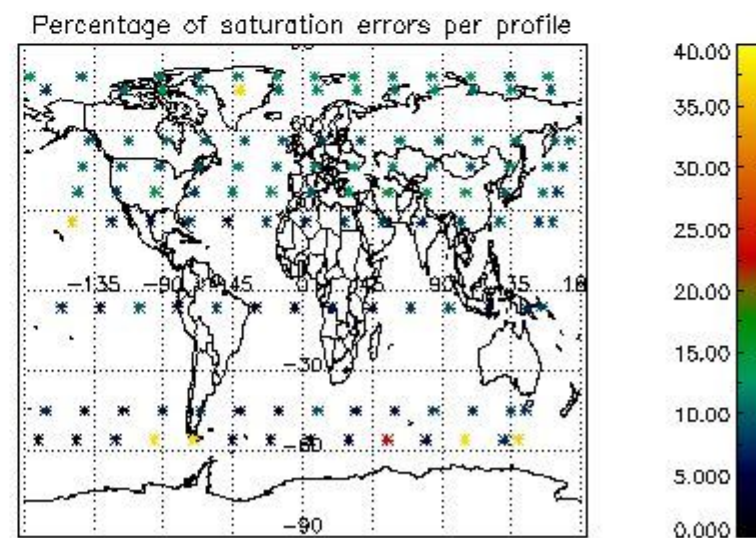
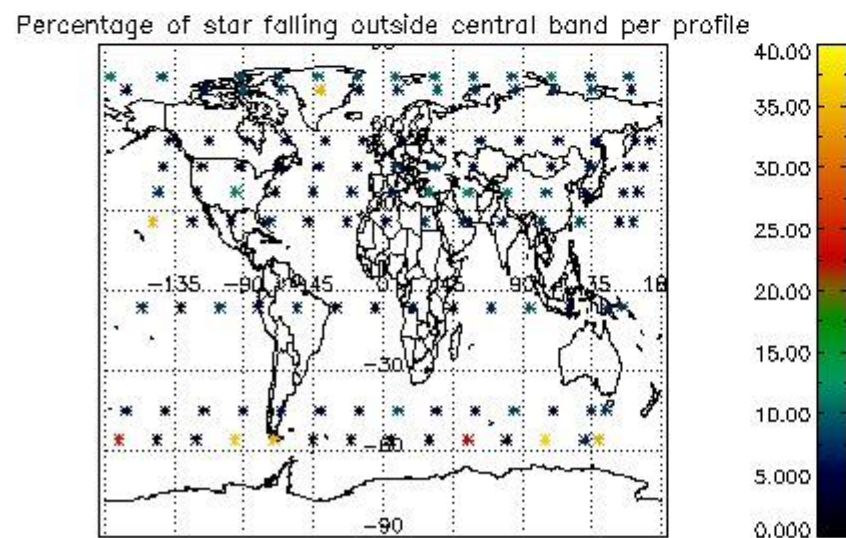
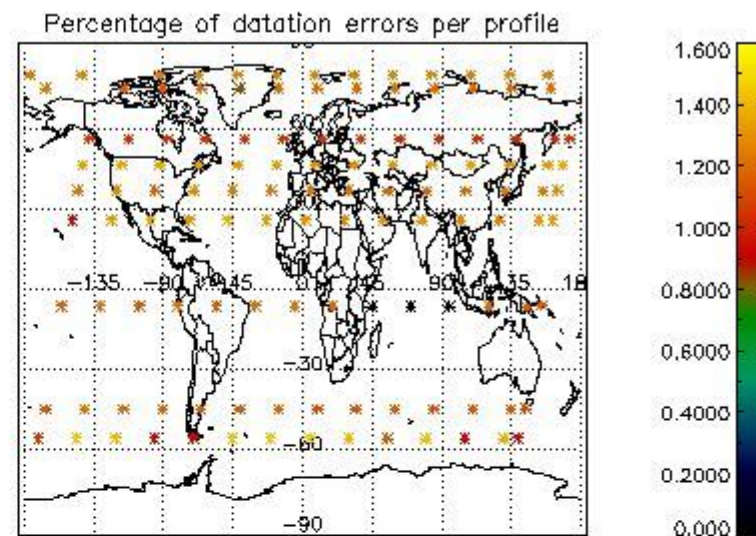
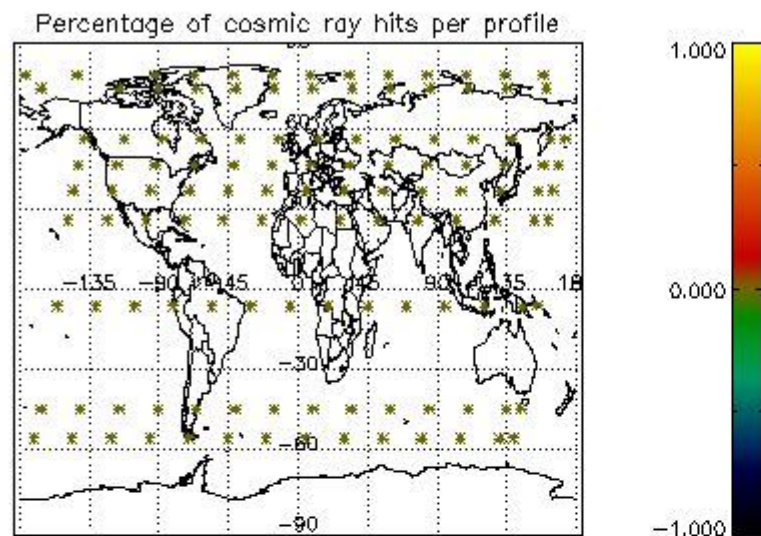


4.2 Plot quality information per product coming from level 1b processing (world map)

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

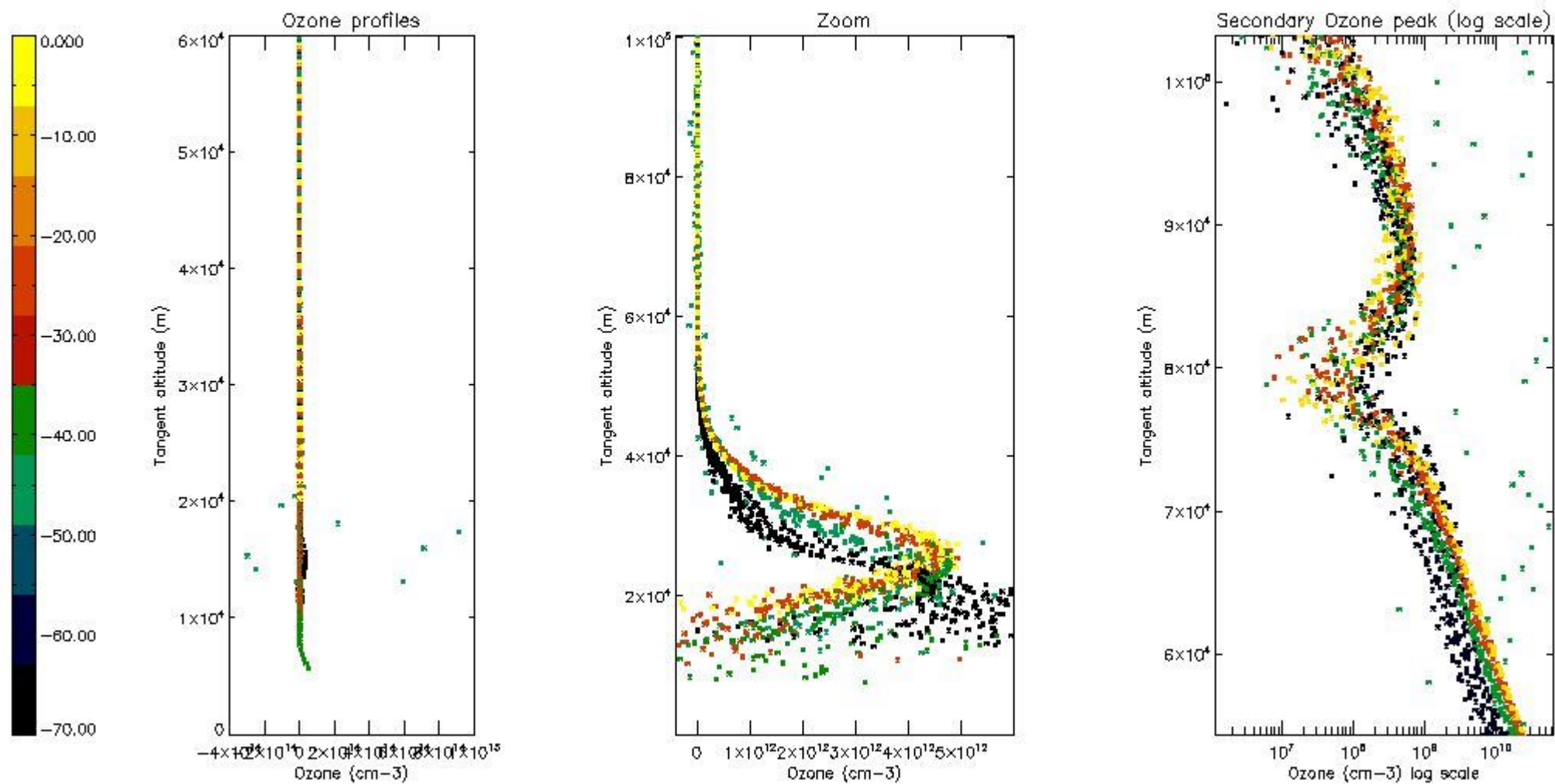
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	19
STD < 20	11

STD < 10	8
STD < 5	5

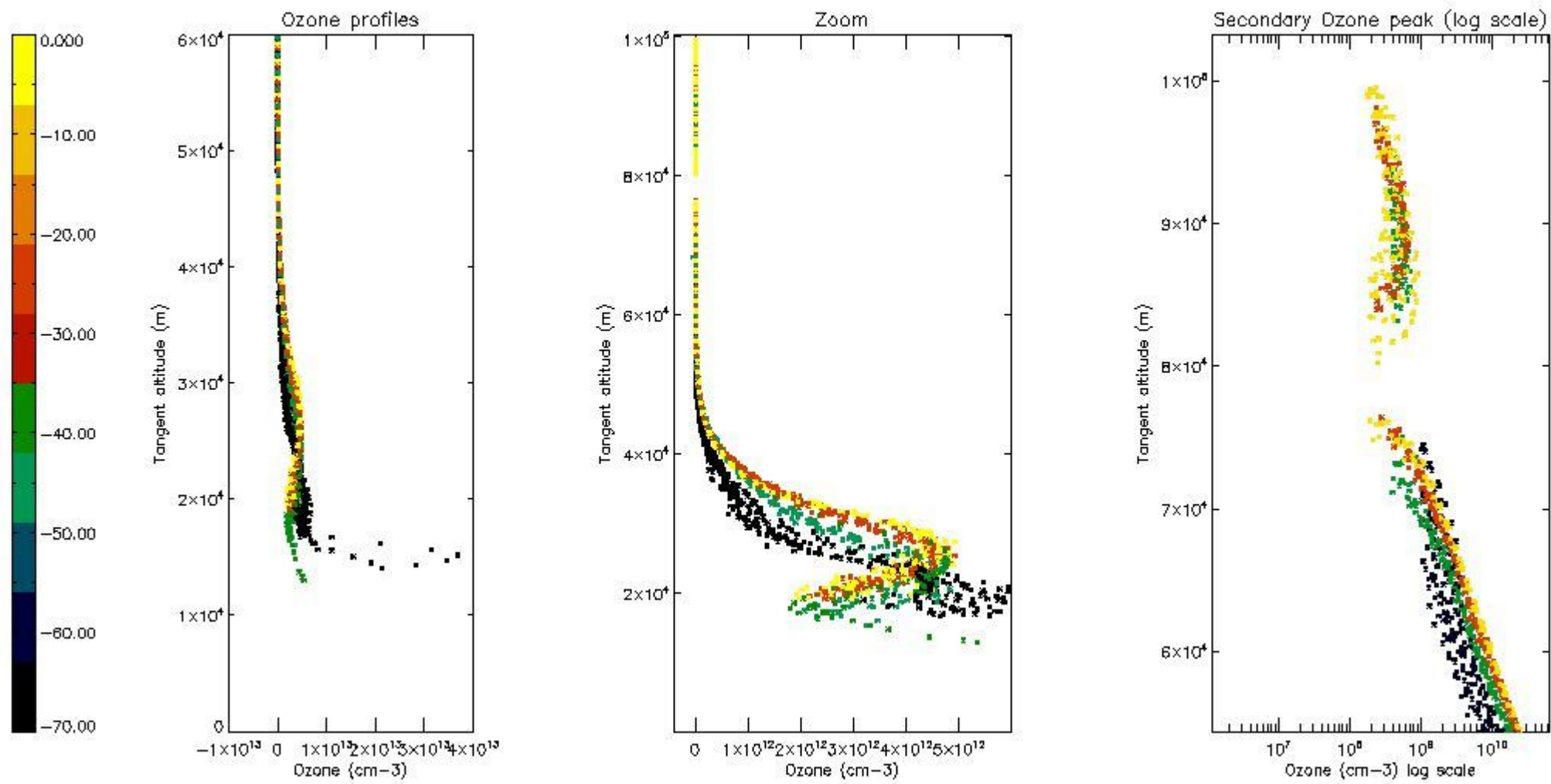
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



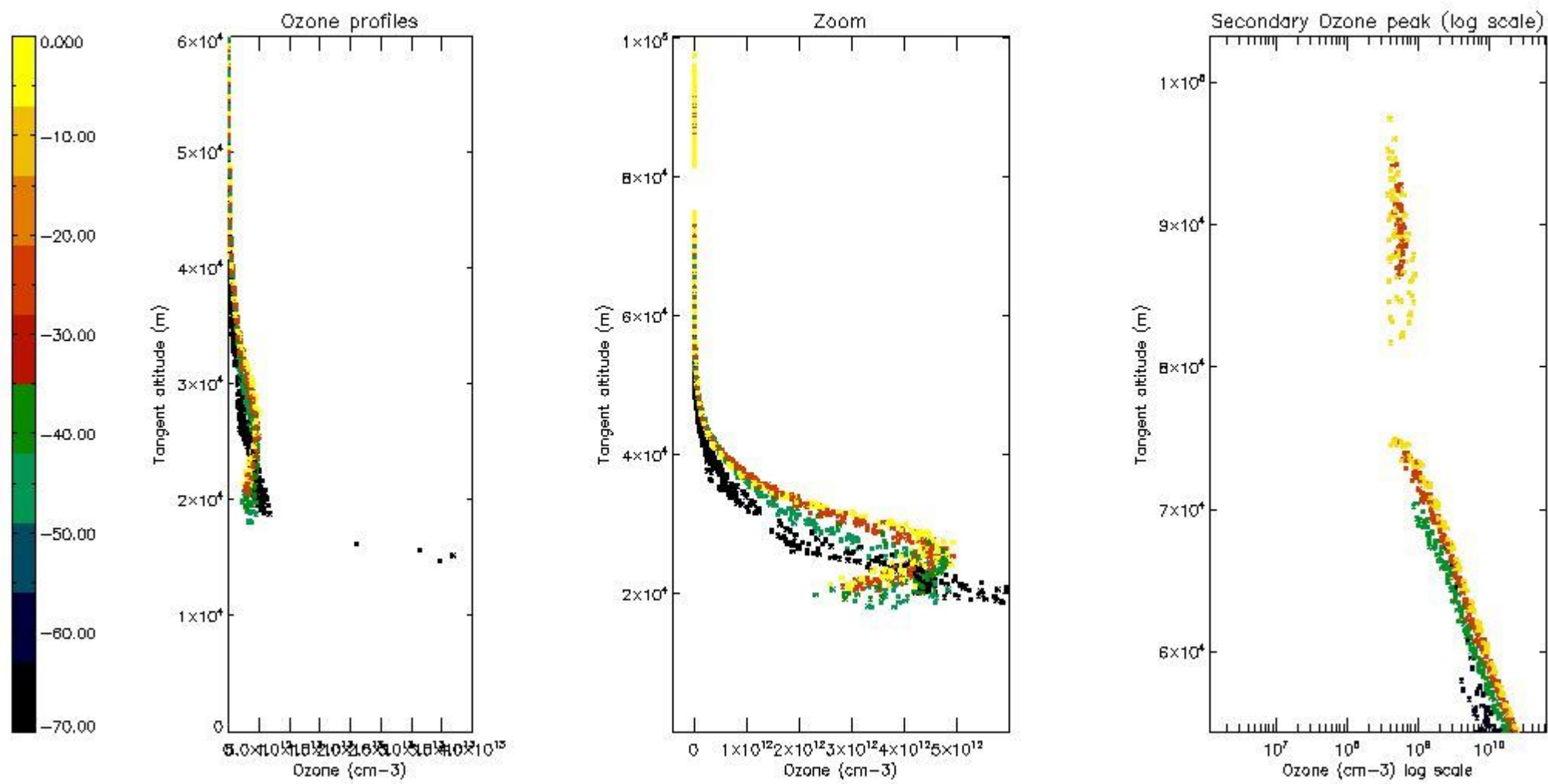
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



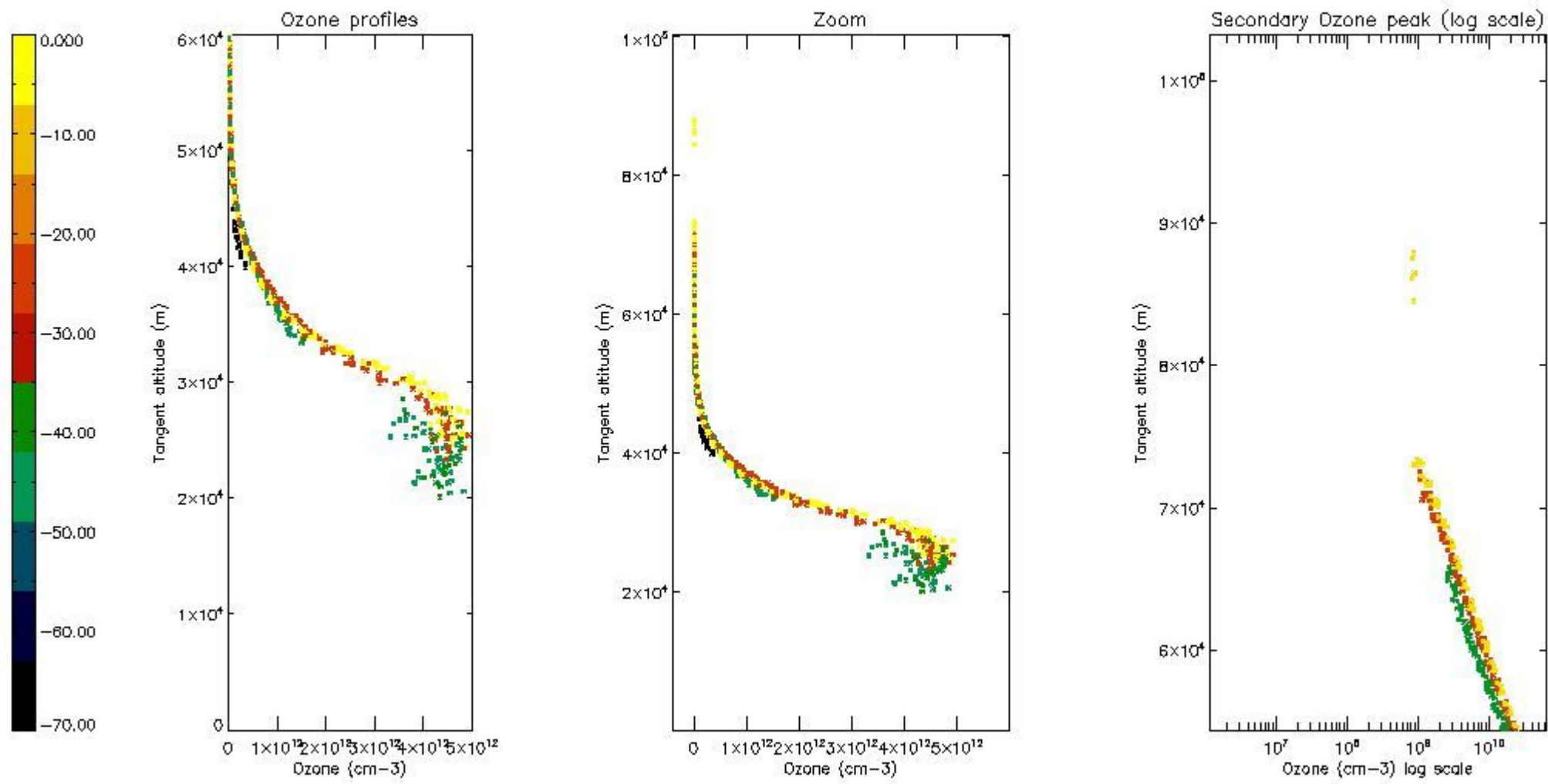
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



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

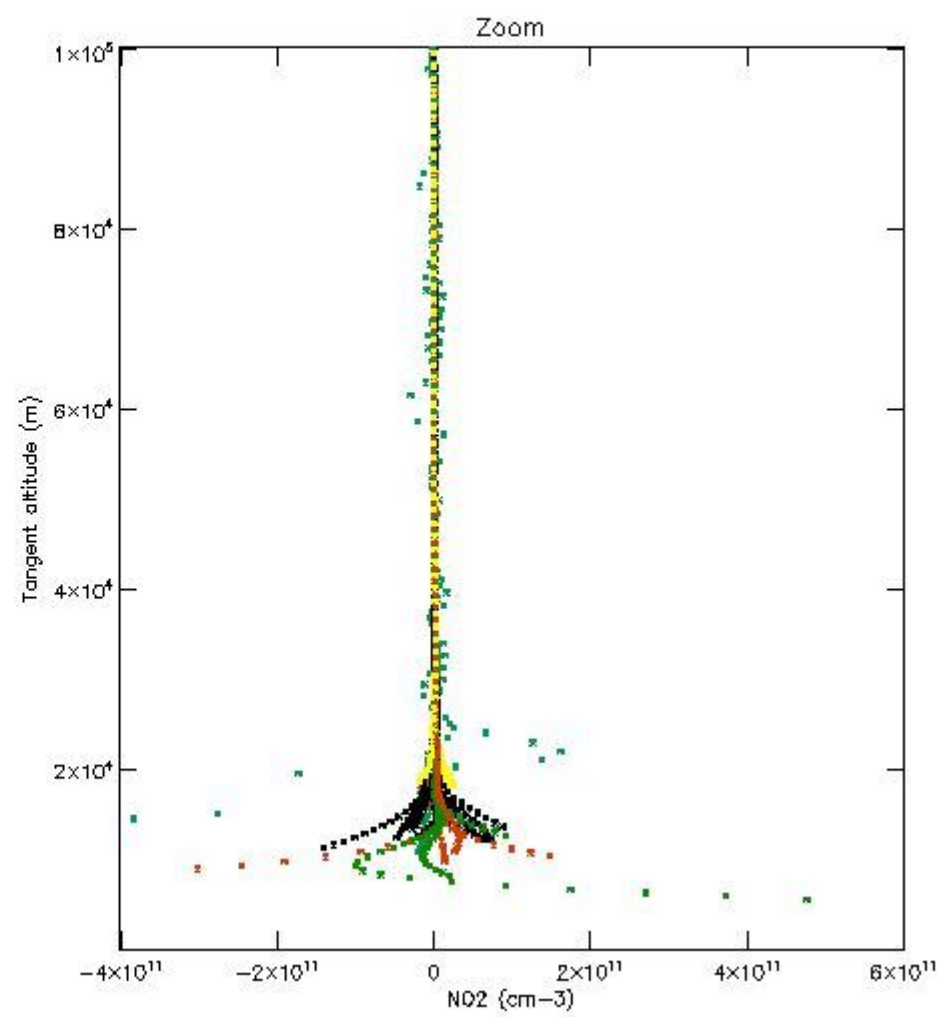
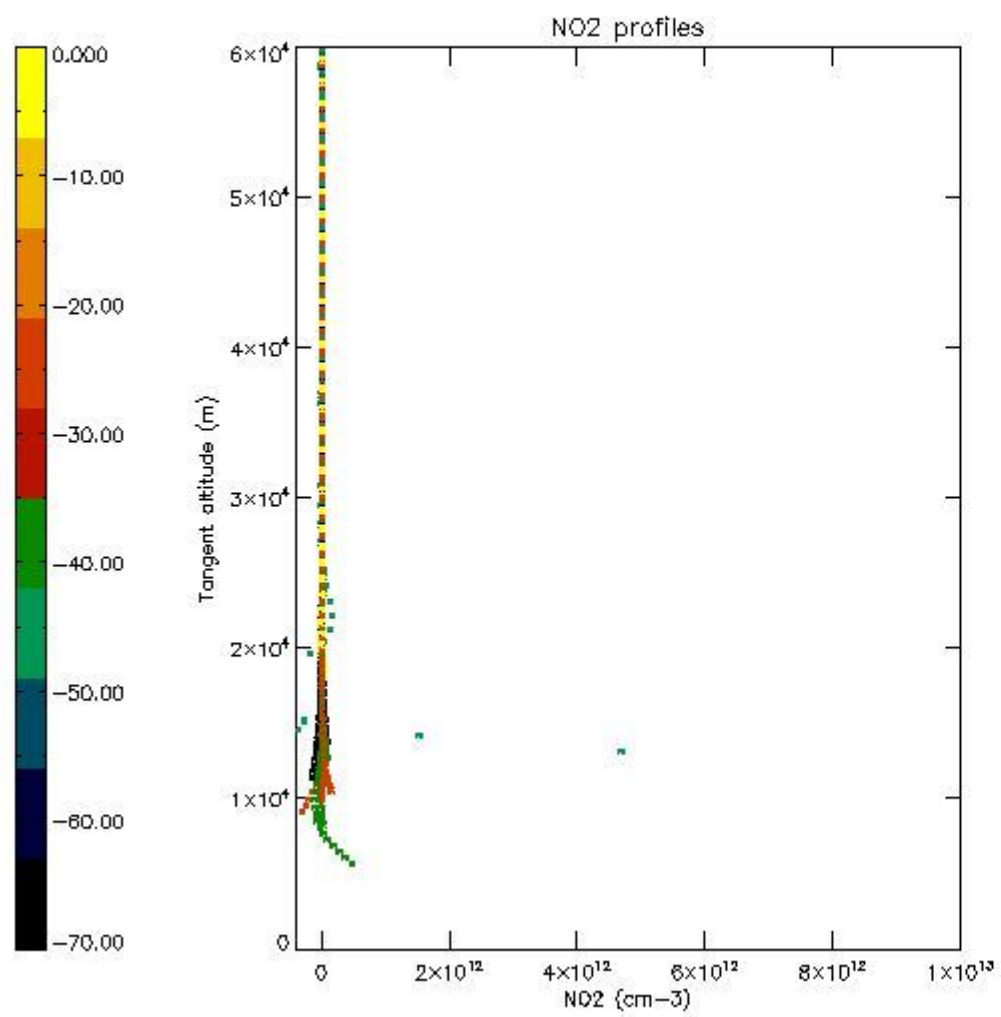
The colorbar represents the latitude.



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

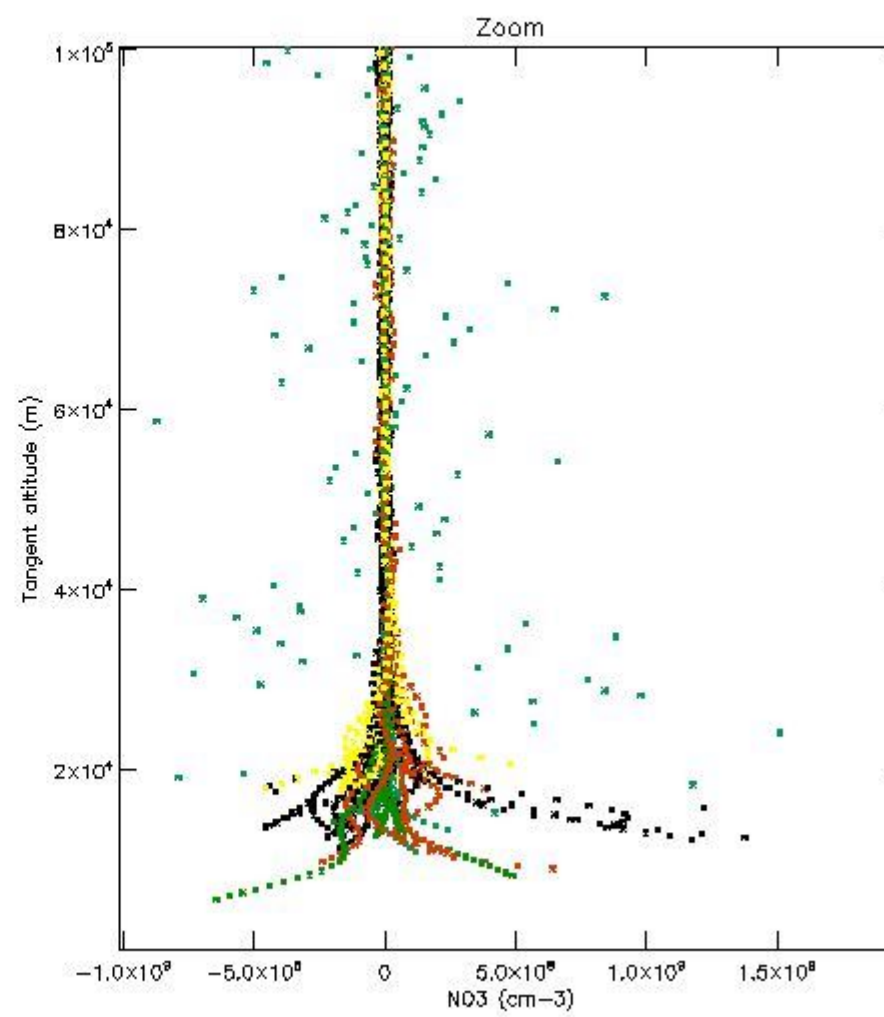
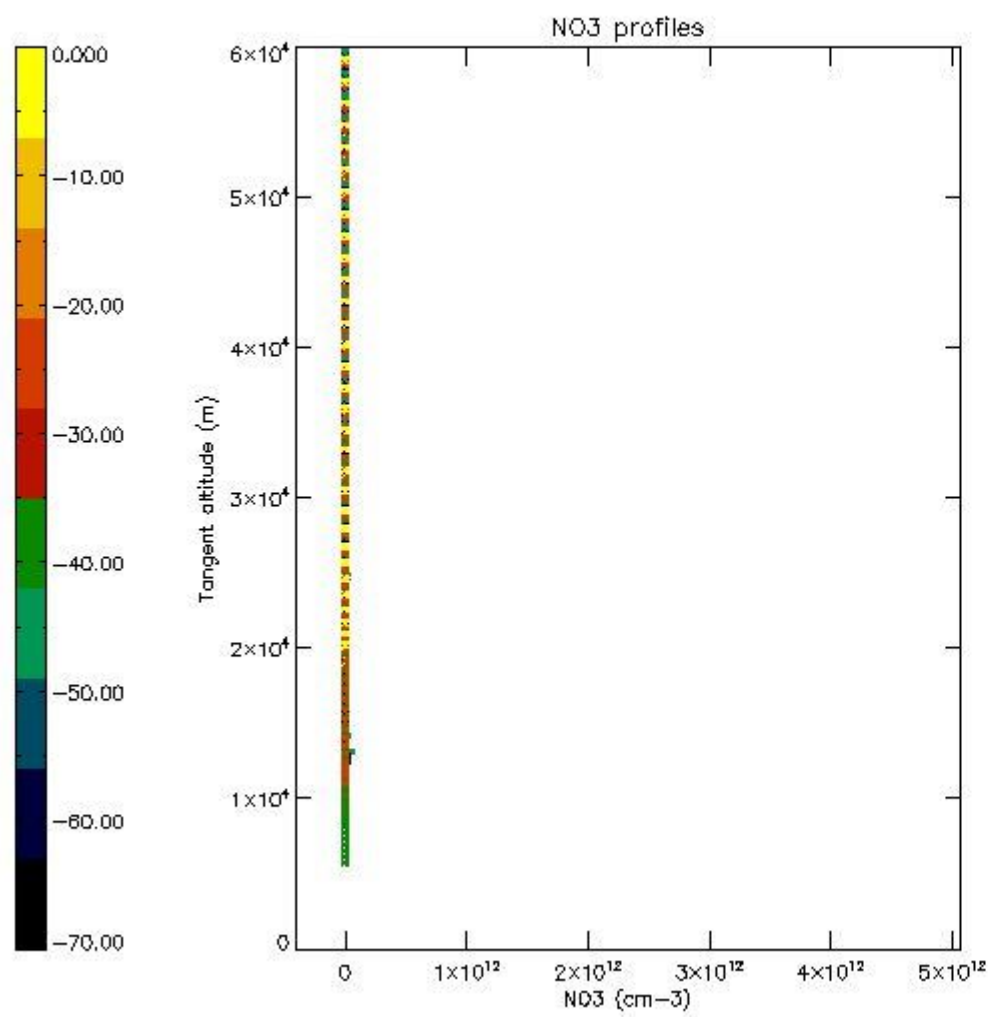
The colorbar represents the latitude.





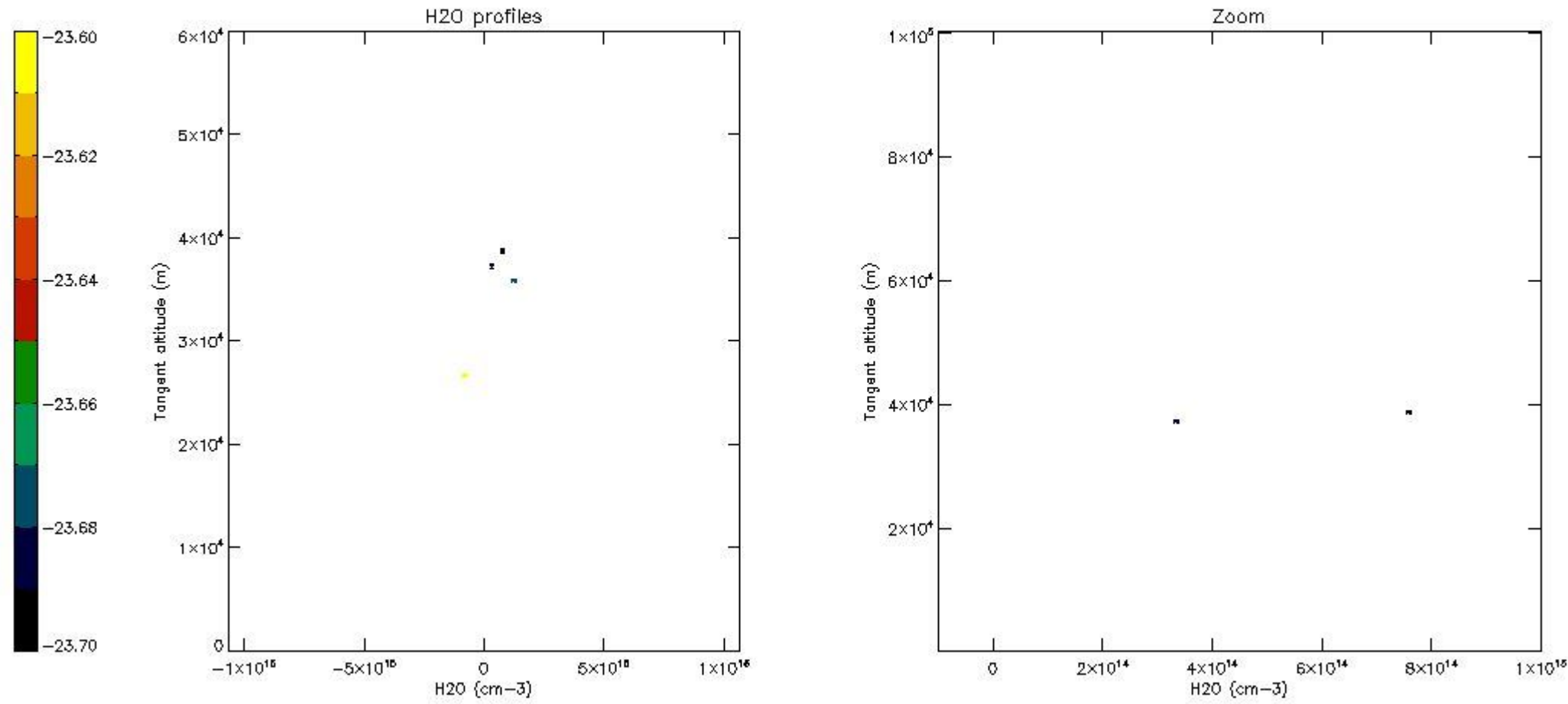
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



5.8 Plot H<sub>2</sub>O 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	10-MAY-2011 00:03:03
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	10-MAY-2011 00:03:03
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	10-MAY-2011 00:03:03

# 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](#)

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	24APR2013 13:25:58
Data source version	GOMOS/6.01
Start time of products	10-05-2011 (10MAY2011 00:00:00)
Stop time of products	11-05-2011 (11MAY2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	278
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__2PRFIN20110510_000303_000000493102_00203_48062_5890.N1	10-MAY-2011 00:03:03	Bright	49.000	102	24Alp Ser	2.6000	4250.0	98	48062	No
2	GOM_NL__2PRFIN20110510_000549_000000383102_00203_48062_5891.N1	10-MAY-2011 00:05:49	Bright	37.500	3	16Alp Boo	-0.050000	4250.0	75	48062	No
3	GOM_NL__2PRFIN20110510_000830_000000413102_00203_48062_5892.N1	10-MAY-2011 00:08:30	Bright	41.000	83		2.3780	11000.	82	48062	No
4	GOM_NL__2PRFIN20110510_001136_000000383102_00203_48062_5893.N1	10-MAY-2011 00:11:36	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	48062	No
5	GOM_NL__2PRFIN20110510_002037_000000433102_00203_48062_5894.N1	10-MAY-2011 00:20:37	Bright	43.000	119	14Eta Dra	2.7270	4700.0	86	48062	No
6	GOM_NL__2PRFIN20110510_003124_000000453102_00203_48062_5895.N1	10-MAY-2011 00:31:24	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	48062	No
7	GOM_NL__2PRFIN20110510_003429_000000363102_00203_48062_5896.N1	10-MAY-2011 00:34:29	Bright	36.000	74	11Bet Cas	2.2680	6600.0	72	48062	No
8	GOM_NL__2PRFIN20110510_004423_000000573102_00203_48062_5897.N1	10-MAY-2011 00:44:23	Twilight	56.500	93	53Bet Peg	2.5200	3100.0	113	48062	No
9	GOM_NL__2PRFIN20110510_004845_000000503102_00203_48062_5898.N1	10-MAY-2011 00:48:45	Dark	50.000	90	54Alp Peg	2.4870	11000.	100	48062	No
10	GOM_NL__2PRFIN20110510_010200_000000493102_00203_48062_5899.N1	10-MAY-2011 01:02:00	Dark	49.000	18	24Alp PsA	1.1660	9700.0	98	48062	No
11	GOM_NL__2PRFIN20110510_010750_000000433102_00203_48062_5900.N1	10-MAY-2011 01:07:50	Dark	42.500	31	Alp Gru	1.7340	15200.	85	48062	No
12	GOM_NL__2PRFIN20110510_011325_000000433102_00204_48063_5523.N1	10-MAY-2011 01:13:25	Dark	42.500	45	Alp Pav	1.9400	26000.	85	48063	No
13	GOM_NL__2PRFIN20110510_012048_000000453102_00204_48063_5524.N1	10-MAY-2011 01:20:48	Straylight	44.500	141	Bet Ara	2.8400	4600.0	89	48063	No
14	GOM_NL__2PRFIN20110510_012308_000000533102_00204_48063_5525.N1	10-MAY-2011 01:23:08	Straylight	52.500	40	The Sco	1.8590	7100.0	105	48063	No
15	GOM_NL__2PRFIN20110510_012458_000000603102_00204_48063_5526.N1	10-MAY-2011 01:24:58	Straylight	59.500	25	35Lam Sco	1.6200	28000.	119	48063	No
16	GOM_NL__2PRFIN20110510_012734_000000523102_00204_48063_5527.N1	10-MAY-2011 01:27:34	Straylight	52.000	75	26Eps Sco	2.2910	4250.0	104	48063	No
17	GOM_NL__2PRFIN20110510_013051_000000633102_00204_48063_5528.N1	10-MAY-2011 01:30:51	Twilight	63.000	16	21Alp Sco	1.0200	3000.0	126	48063	No
18	GOM_NL__2PRFIN20110510_013244_000000613102_00204_48063_5529.N1	10-MAY-2011 01:32:44	Bright	61.000	80	7Del Sco	2.3160	30000.	122	48063	No
19	GOM_NL__2PRFIN20110510_013533_000000413102_00204_48063_5530.N1	10-MAY-2011 01:35:33	Bright	41.000	122	9Alp2Lib	2.7470	9700.0	82	48063	No
20	GOM_NL__2PRFIN20110510_013731_000000423102_00204_48063_5531.N1	10-MAY-2011 01:37:31	Bright	41.500	104	27Bet Lib	2.6140	13100.	83	48063	No
21	GOM_NL__2PRFIN20110510_014317_000000503102_00204_48063_5532.N1	10-MAY-2011 01:43:17	Bright	49.500	102	24Alp Ser	2.6000	4250.0	99	48063	No
22	GOM_NL__2PRFIN20110510_014603_000000393102_00204_48063_5533.N1	10-MAY-2011 01:46:03	Bright	38.500	3	16Alp Boo	-0.050000	4250.0	77	48063	No
23	GOM_NL__2PRFIN20110510_014844_000000413102_00204_48063_5534.N1	10-MAY-2011 01:48:44	Bright	40.500	83		2.3780	11000.	81	48063	No
24	GOM_NL__2PRFIN20110510_015149_000000403102_00204_48063_5535.N1	10-MAY-2011 01:51:49	Bright	40.000	180	27Gam Boo	3.0400	8000.0	80	48063	No
25	GOM_NL__2PRFIN20110510_020050_000000423102_00204_48063_5536.N1	10-MAY-2011 02:00:50	Bright	42.000	119	14Eta Dra	2.7270	4700.0	84	48063	No
26	GOM_NL__2PRFIN20110510_021138_000000443102_00204_48063_5537.N1	10-MAY-2011 02:11:38	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	48063	No
27	GOM_NL__2PRFIN20110510_021443_000000543102_00204_48063_5538.N1	10-MAY-2011 02:14:43	Bright	54.000	74	11Bet Cas	2.2680	6600.0	108	48063	No
28	GOM_NL__2PRFIN20110510_022437_000000593102_00204_48063_5539.N1	10-MAY-2011 02:24:37	Twilight	59.000	93	53Bet Peg	2.5200	3100.0	118	48063	No
29	GOM_NL__2PRFIN20110510_022859_000000493102_00204_48063_5540.N1	10-MAY-2011 02:28:59	Dark	48.500	90	54Alp Peg	2.4870	11000.	97	48063	No
30	GOM_NL__2PRFIN20110510_024216_000000473102_00204_48063_5541.N1	10-MAY-2011 02:42:16	Dark	47.000	18	24Alp PsA	1.1660	9700.0	94	48063	No
31	GOM_NL__2PRFIN20110510_024805_000000413102_00204_48063_5542.N1	10-MAY-2011 02:48:05	Dark	41.000	31	Alp Gru	1.7340	15200.	82	48063	No
32	GOM_NL__2PRFIN20110510_025340_000000413102_00205_48064_5536.N1	10-MAY-2011 02:53:40	Dark	41.000	45	Alp Pav	1.9400	26000.	82	48064	No
33	GOM_NL__2PRFIN20110510_030102_000000463102_00205_48064_5537.N1	10-MAY-2011 03:01:02	Straylight	45.500	141	Bet Ara	2.8400	4600.0	91	48064	No
34	GOM_NL__2PRFIN20110510_030322_000000553102_00205_48064_5538.N1	10-MAY-2011 03:03:22	Straylight	55.000	40	The Sco	1.8590	7100.0	110	48064	No
35	GOM_NL__2PRFIN20110510_030513_000000593102_00205_48064_5539.N1	10-MAY-2011 03:05:13	Straylight	58.500	25	35Lam Sco	1.6200	28000.	117	48064	No
36	GOM_NL__2PRFIN20110510_030749_000000553102_00205_48064_5540.N1	10-MAY-2011 03:07:49	Straylight	55.000	75	26Eps Sco	2.2910	4250.0	110	48064	No
37	GOM_NL__2PRFIN20110510_031106_000000653102_00205_48064_5541.N1	10-MAY-2011 03:11:06	Twilight	65.000	16	21Alp Sco	1.0200	3000.0	130	48064	No
38	GOM_NL__2PRFIN20110510_031258_000000523102_00205_48064_5542.N1	10-MAY-2011 03:12:58	Bright	52.000	80	7Del Sco	2.3160	30000.	104	48064	No
39	GOM_NL__2PRFIN20110510_031547_000000403102_00205_48064_5543.N1	10-MAY-2011 03:15:47	Bright	40.000	122	9Alp2Lib	2.7470	9700.0	80	48064	No
40	GOM_NL__2PRFIN20110510_031745_000000433102_00205_48064_5544.N1	10-MAY-2011 03:17:45	Bright	42.500	104	27Bet Lib	2.6140	13100.	85	48064	No
41	GOM_NL__2PRFIN20110510_032330_000000503102_00205_48064_5545.N1	10-MAY-2011 03:23:30	Bright	49.500	102	24Alp Ser	2.6000	4250.0	99	48064	No
42	GOM_NL__2PRFIN20110510_032617_000000383102_00205_48064_5546.N1	10-MAY-2011 03:26:17	Bright	37.500	3	16Alp Boo	-0.050000	4250.0	75	48064	No







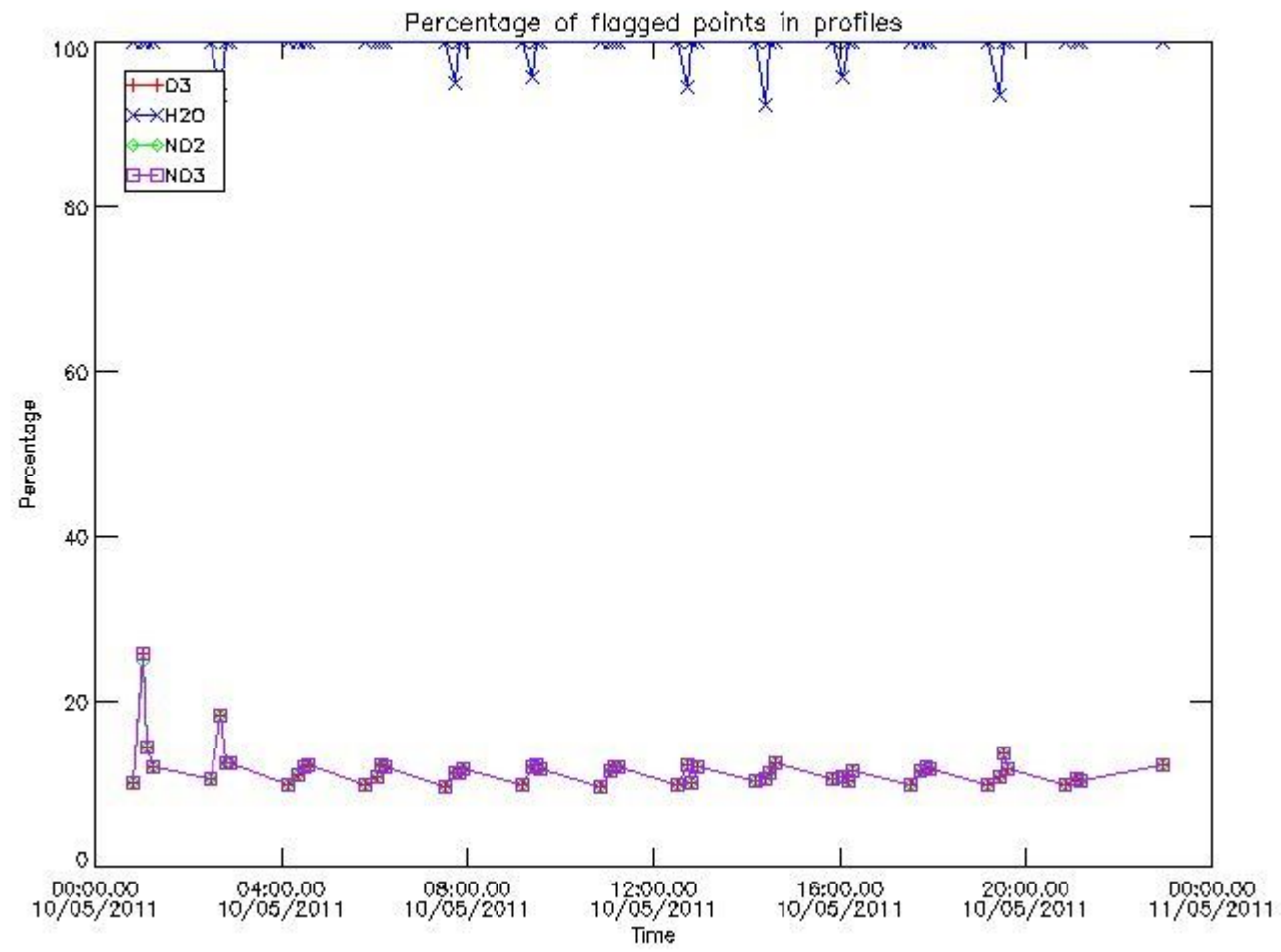




### 3. Quality information per product

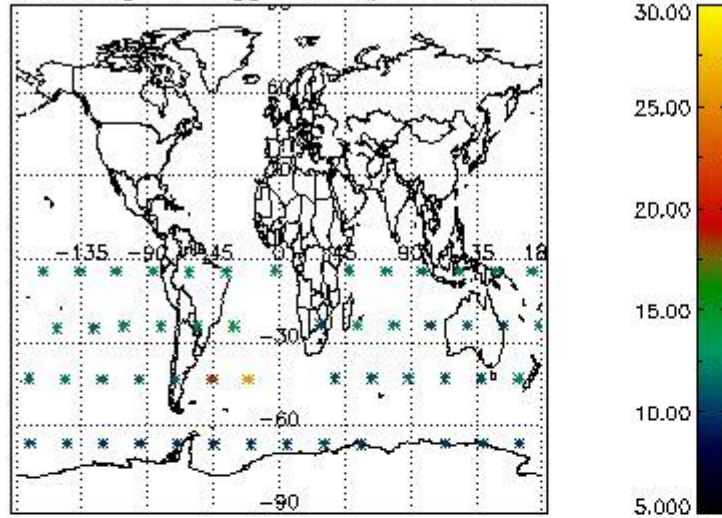
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

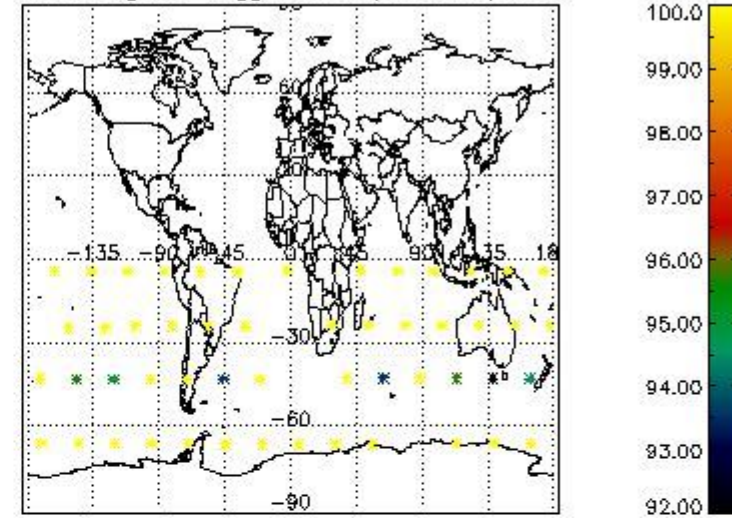


#### 3.2 Plot quality information per product (world map)

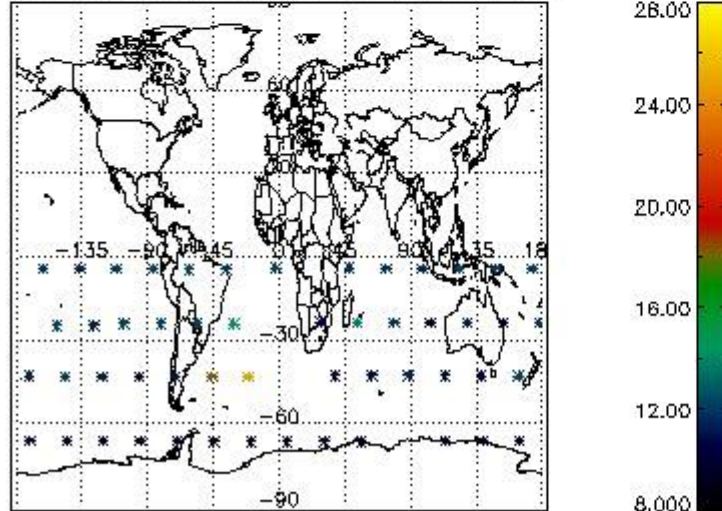
Percentage of flagged data per O3 profile



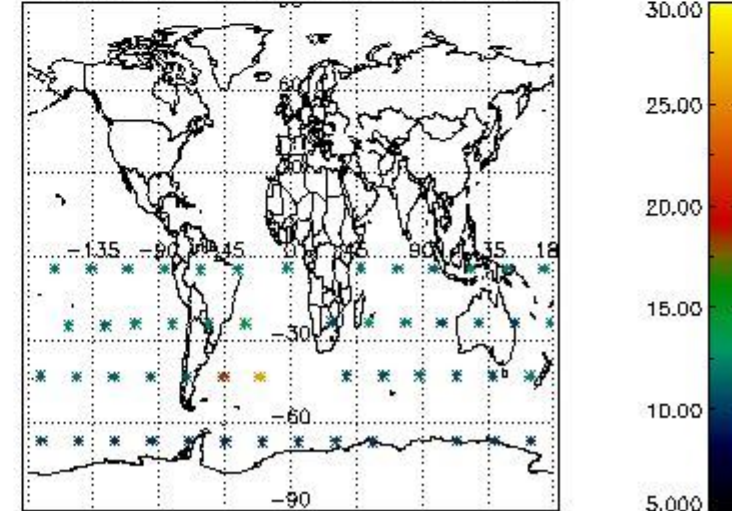
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

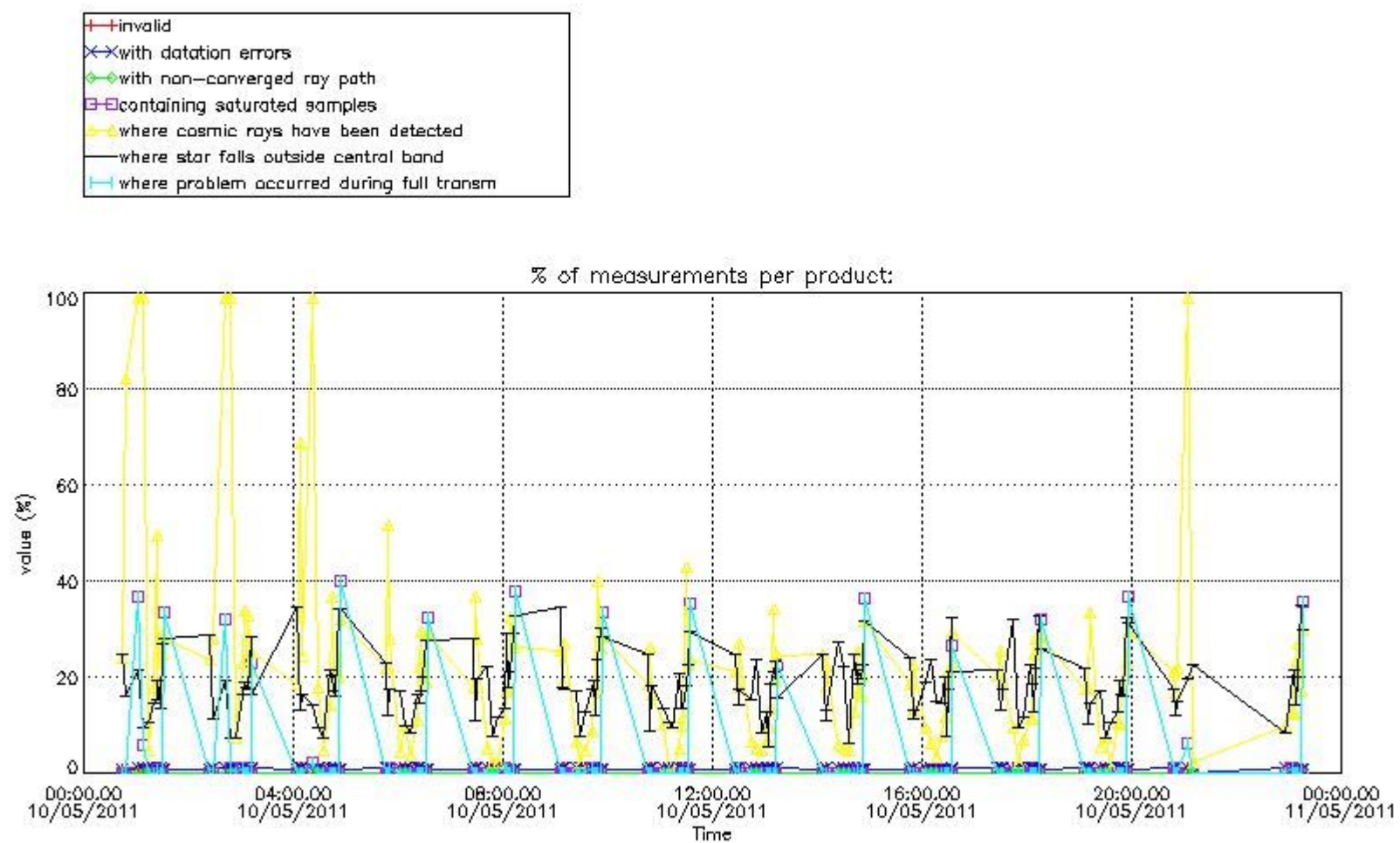


#### 4. Level 1 quality information per product

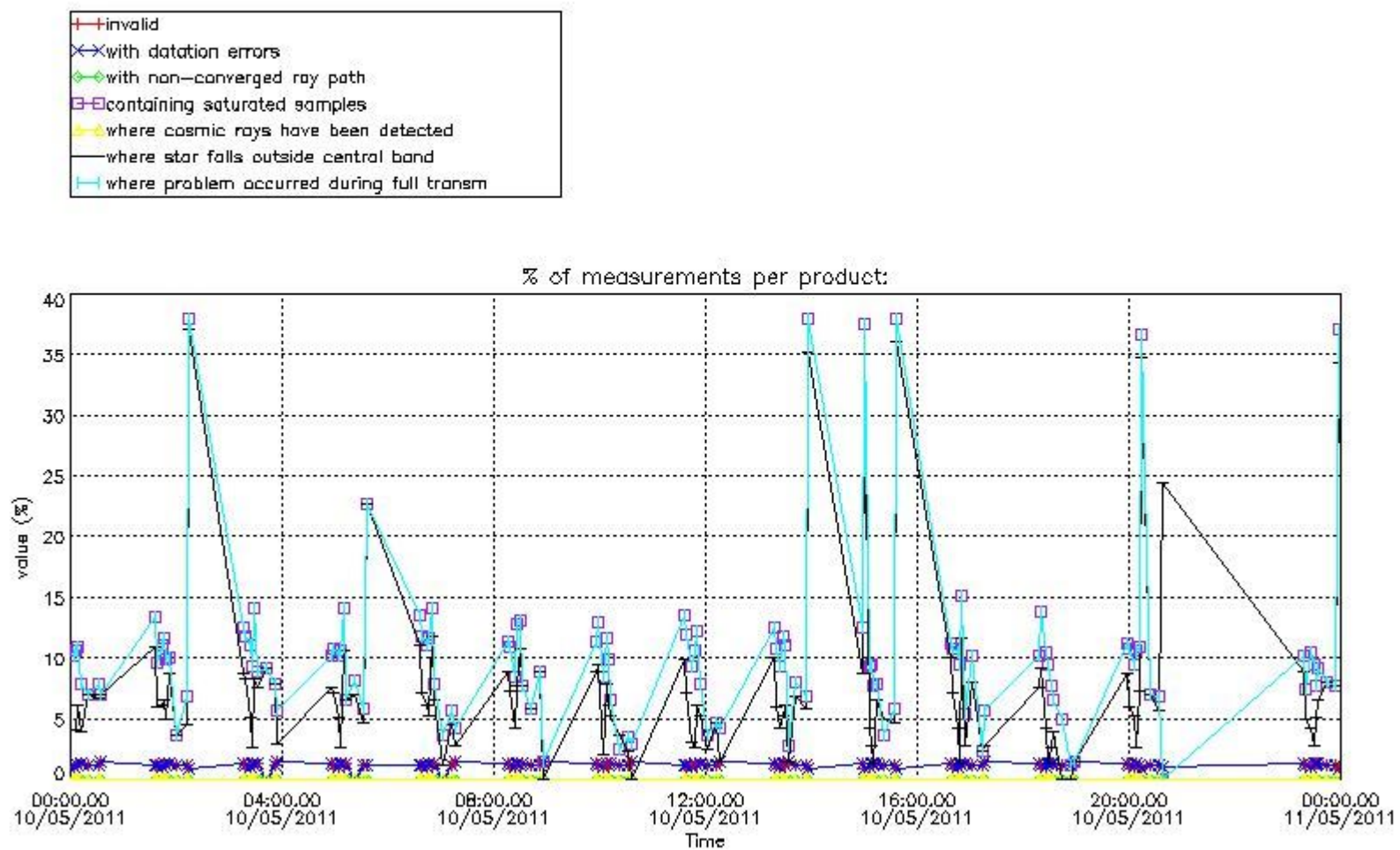
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

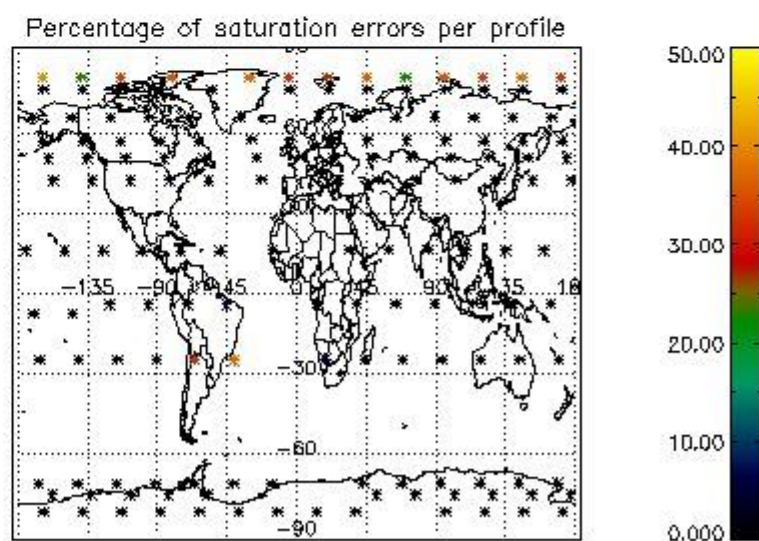
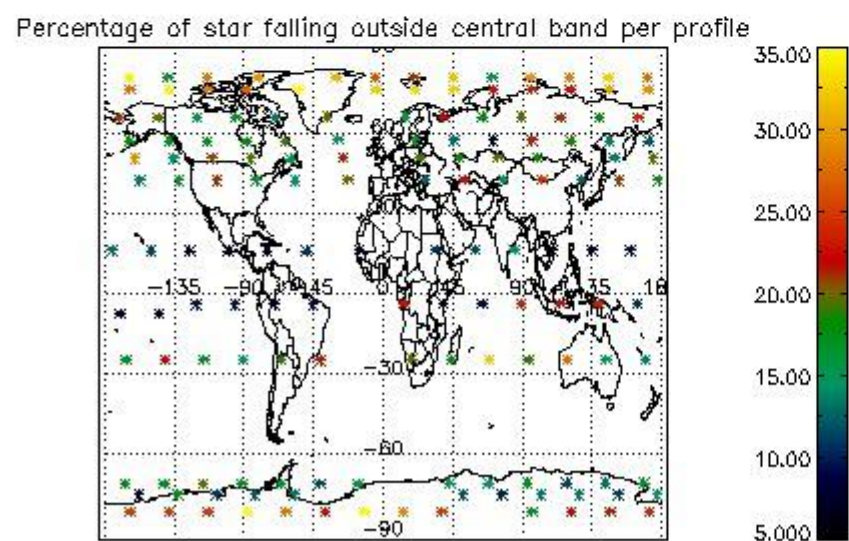
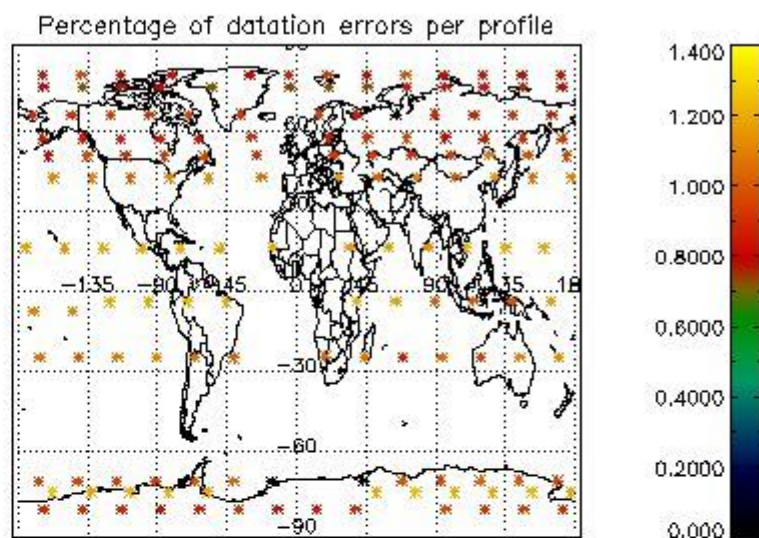
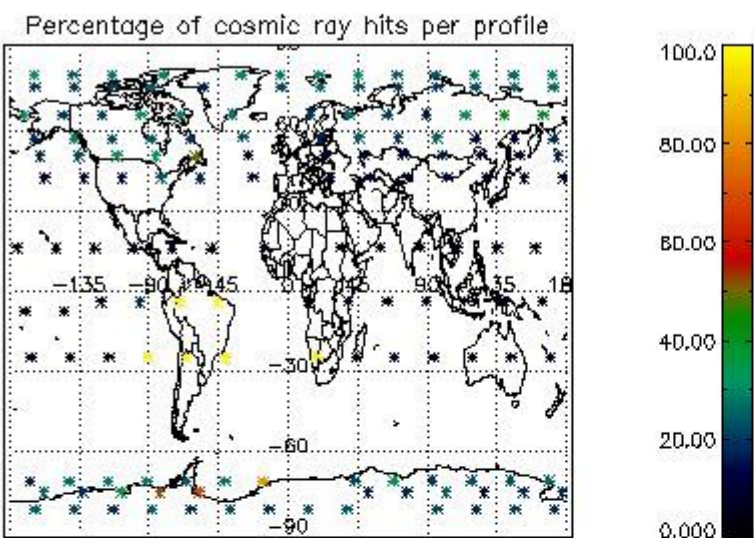


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

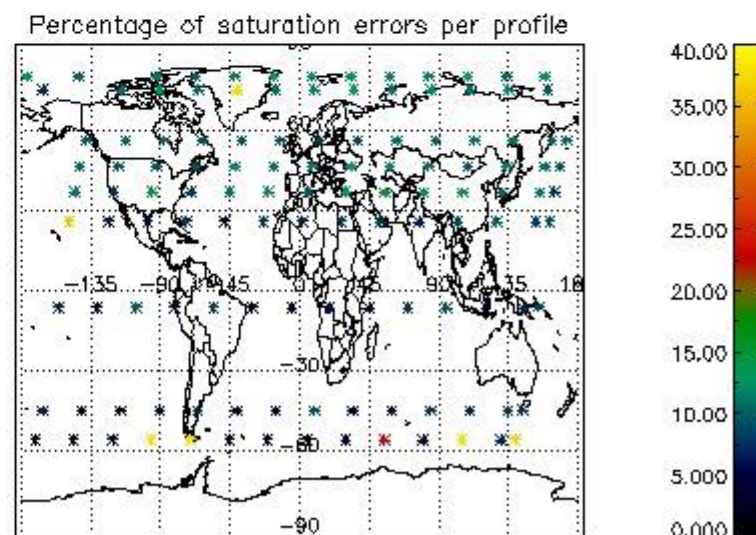
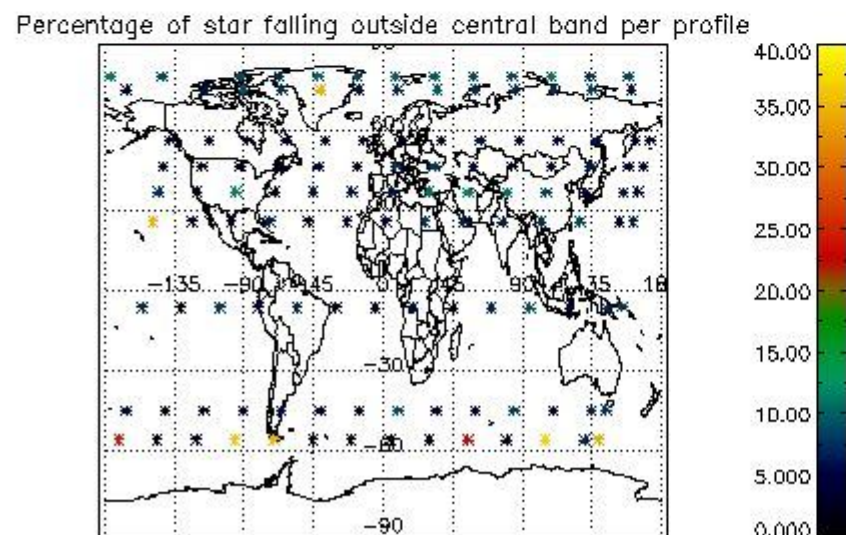
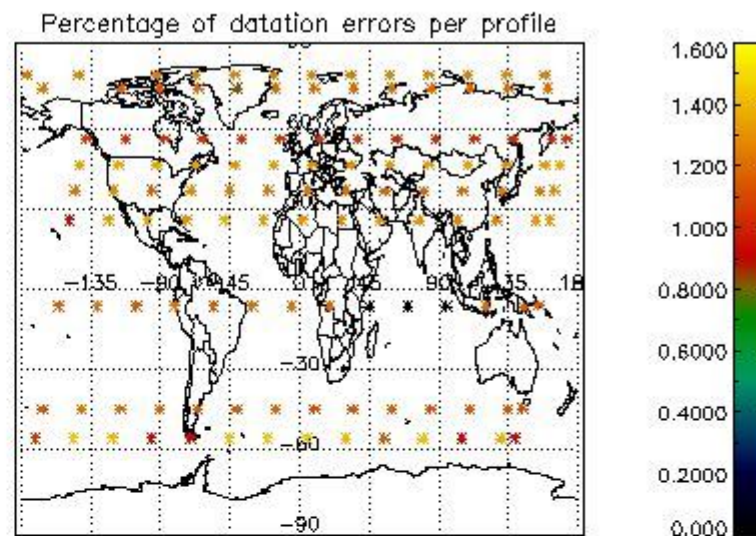
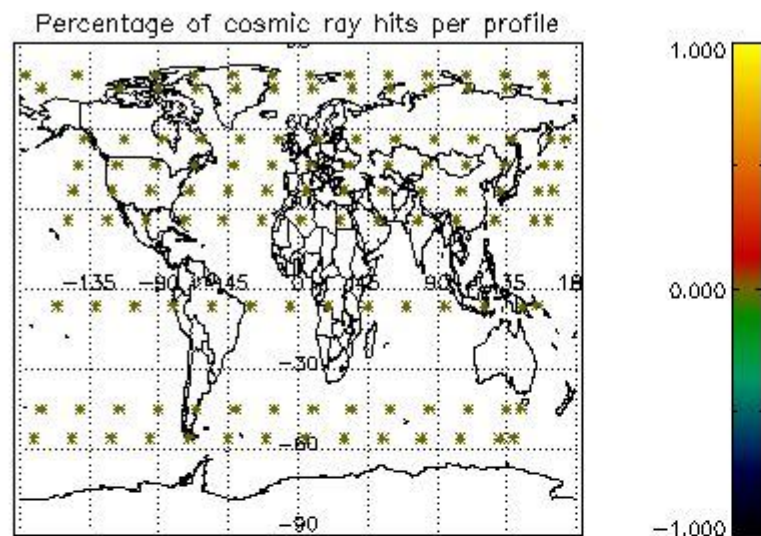


4.2 Plot quality information per product coming from level 1b processing (world map)

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

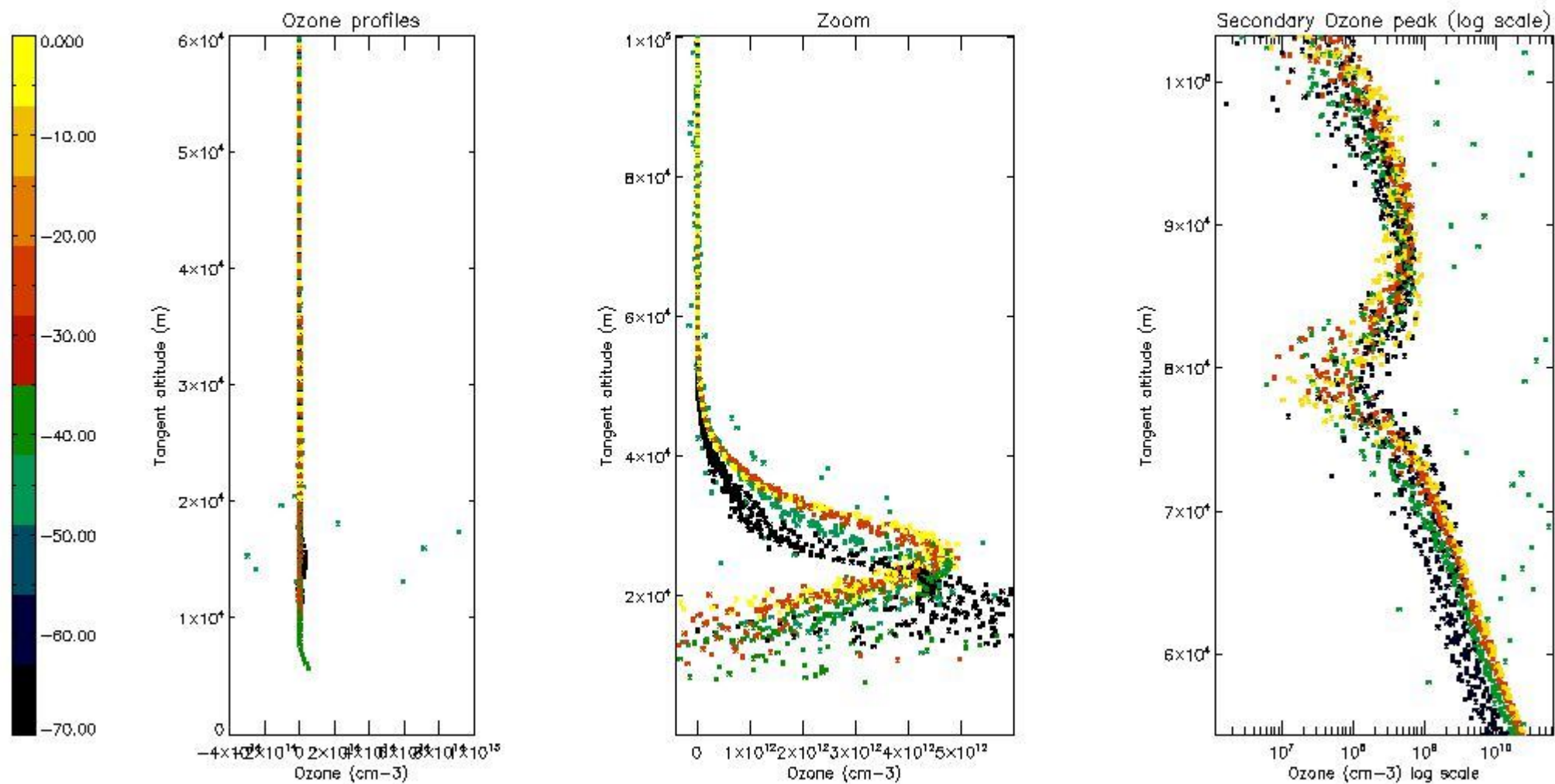
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	19
STD < 20	11

STD < 10	8
STD < 5	5

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

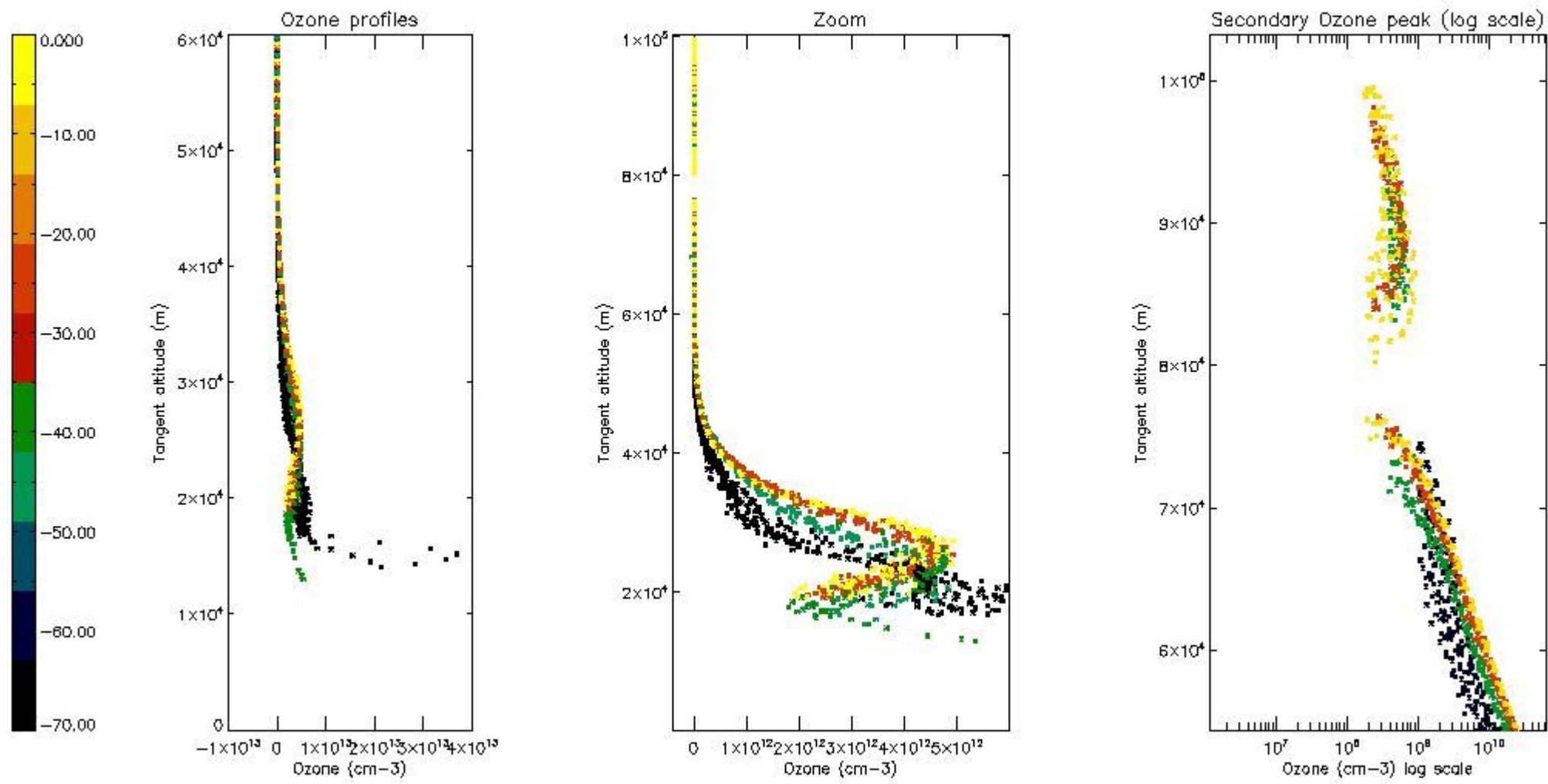
The colorbar represents the latitude.



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

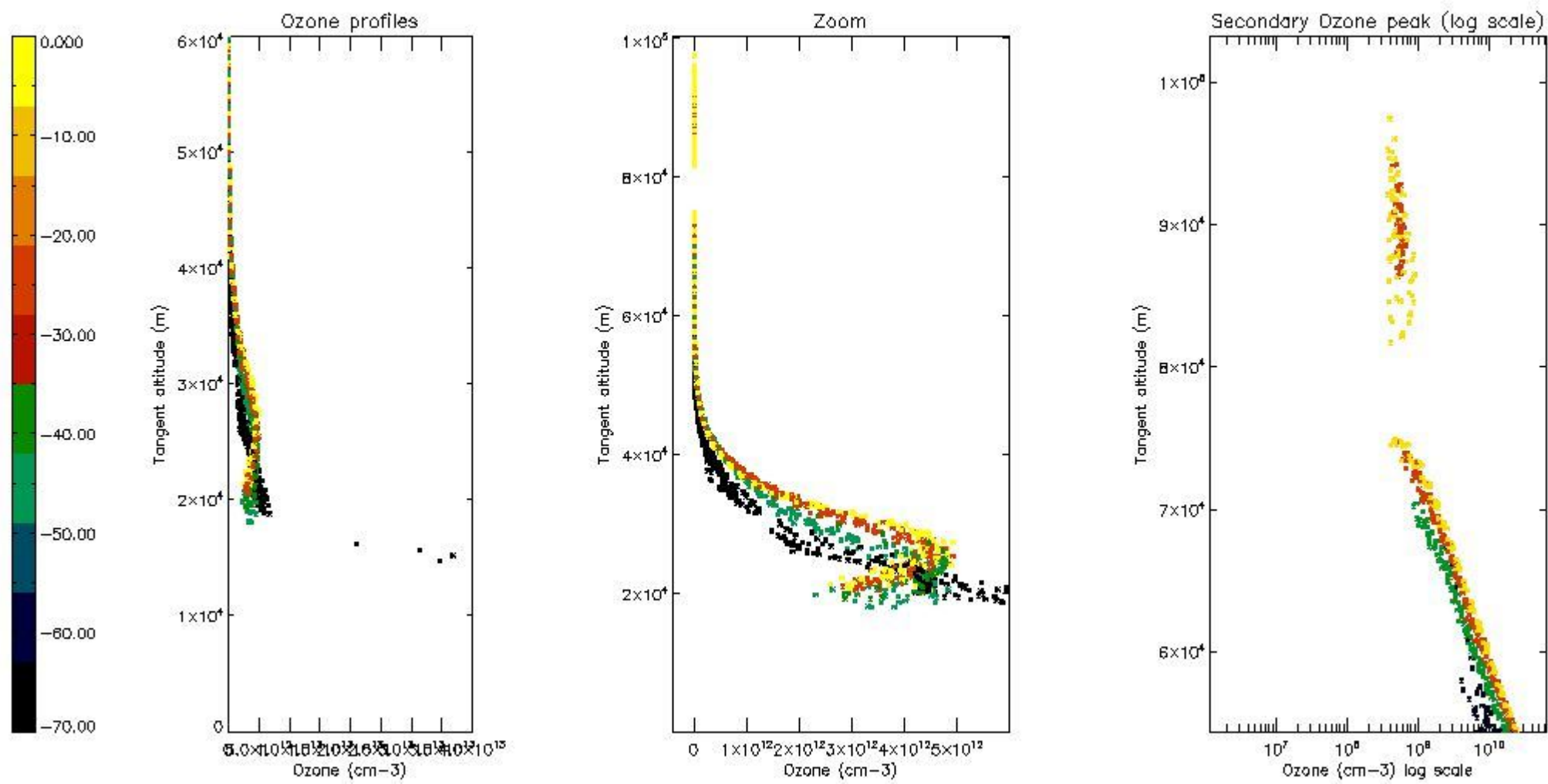
The colorbar represents the latitude.





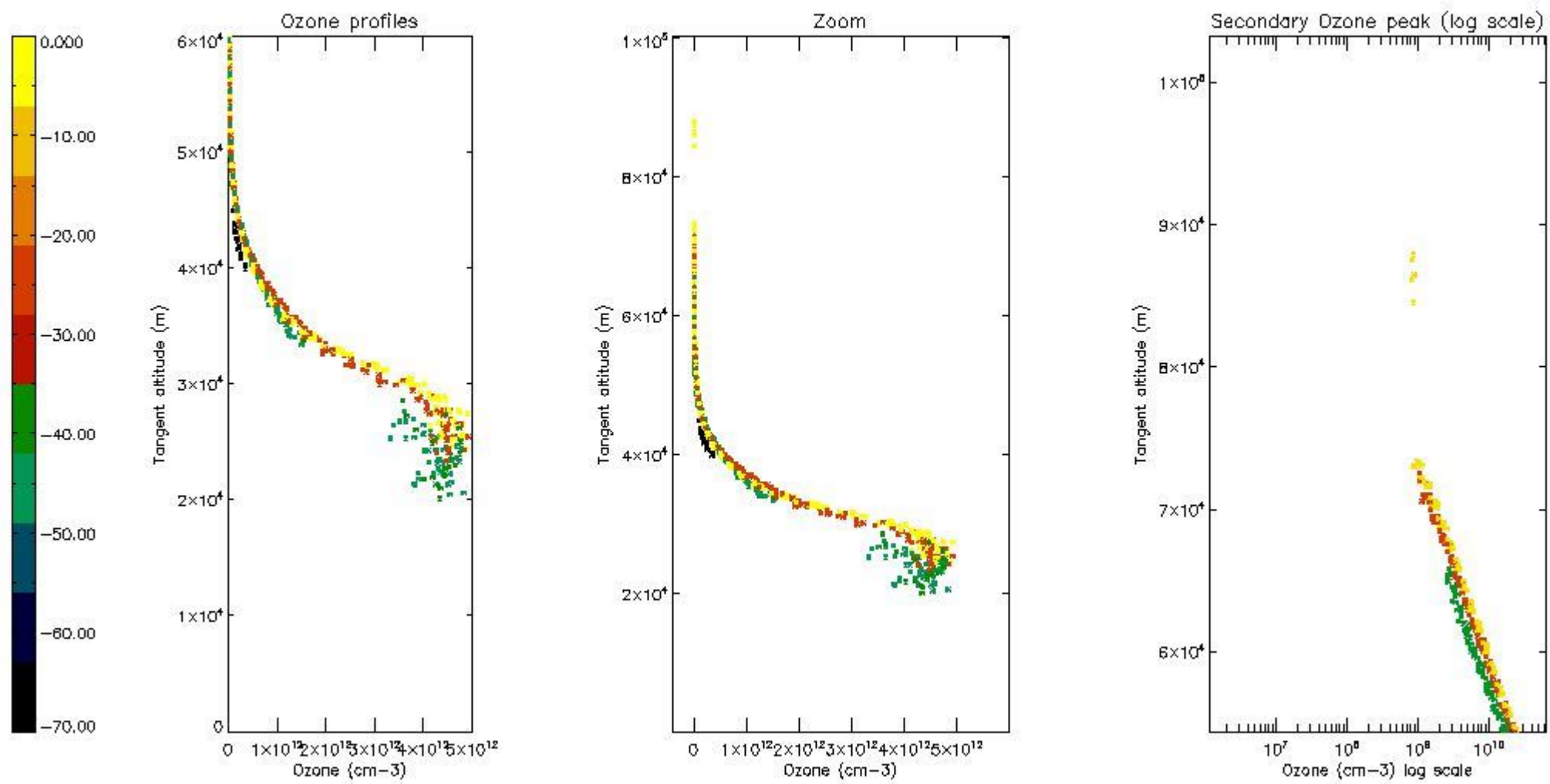
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



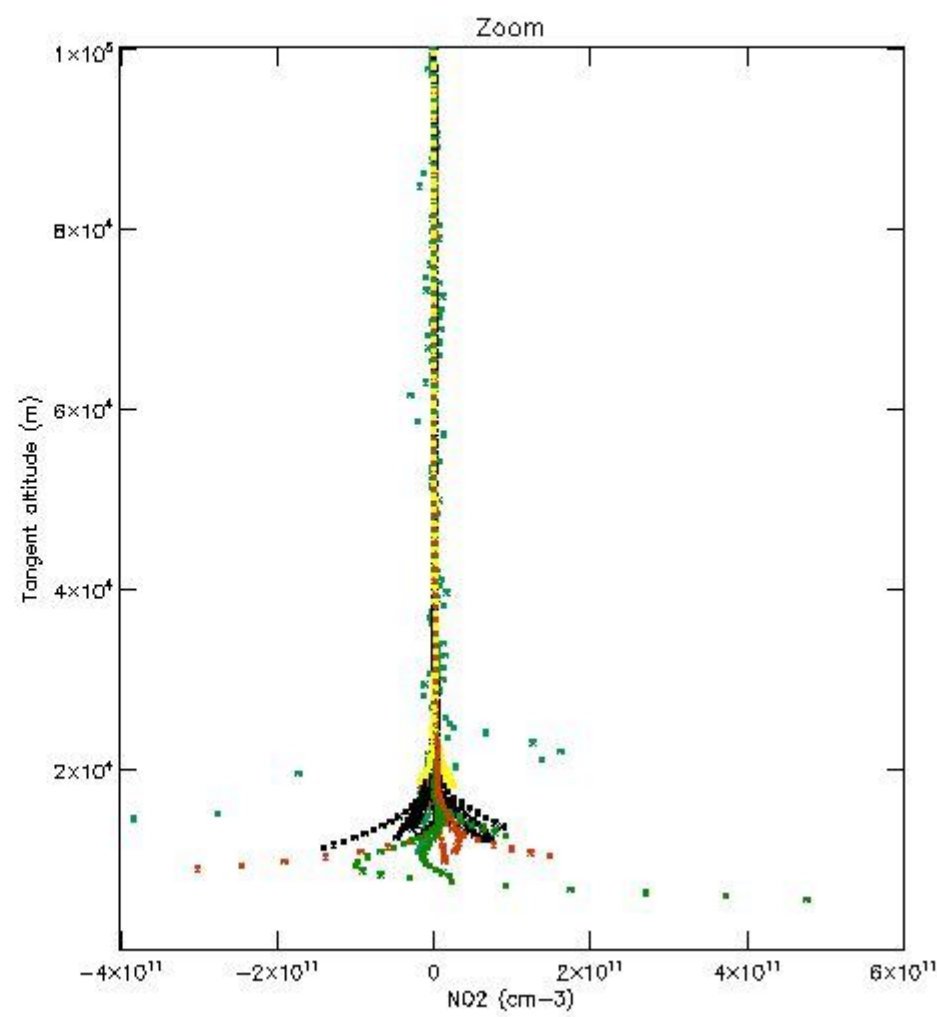
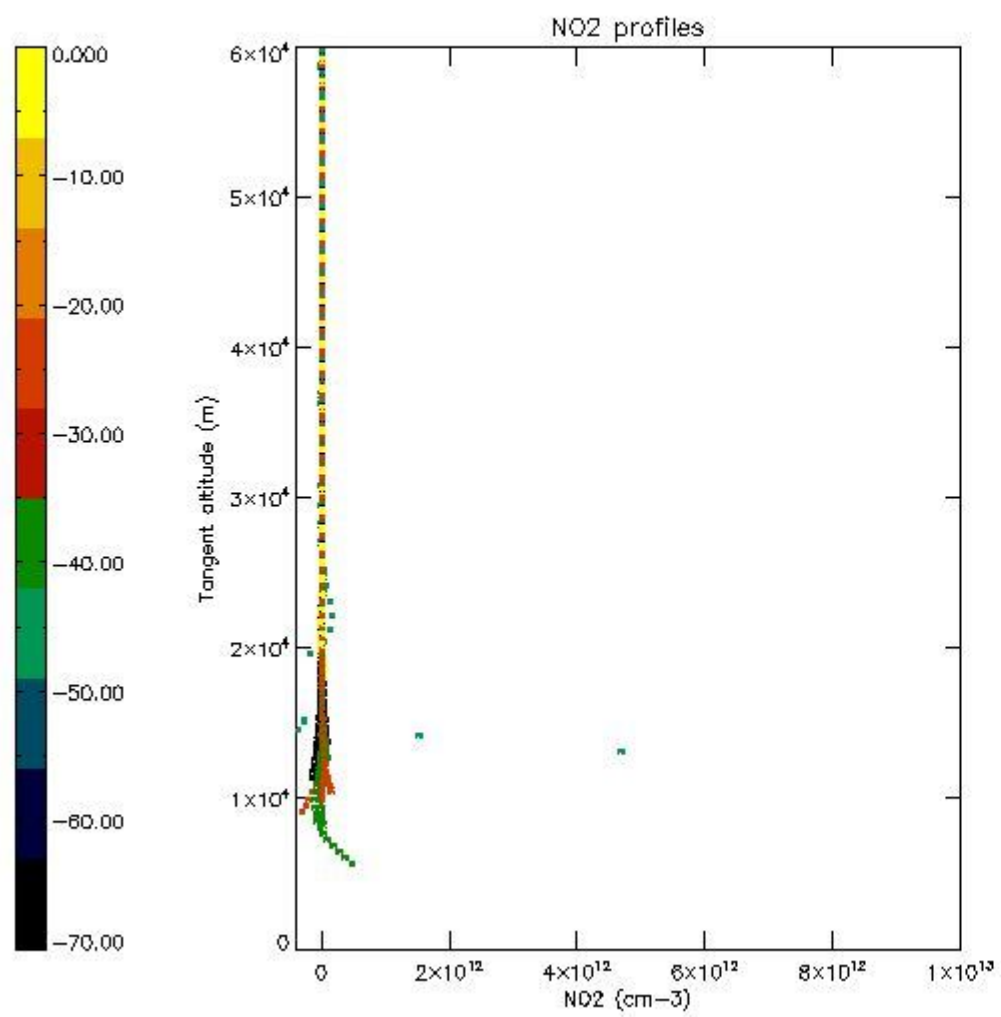
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



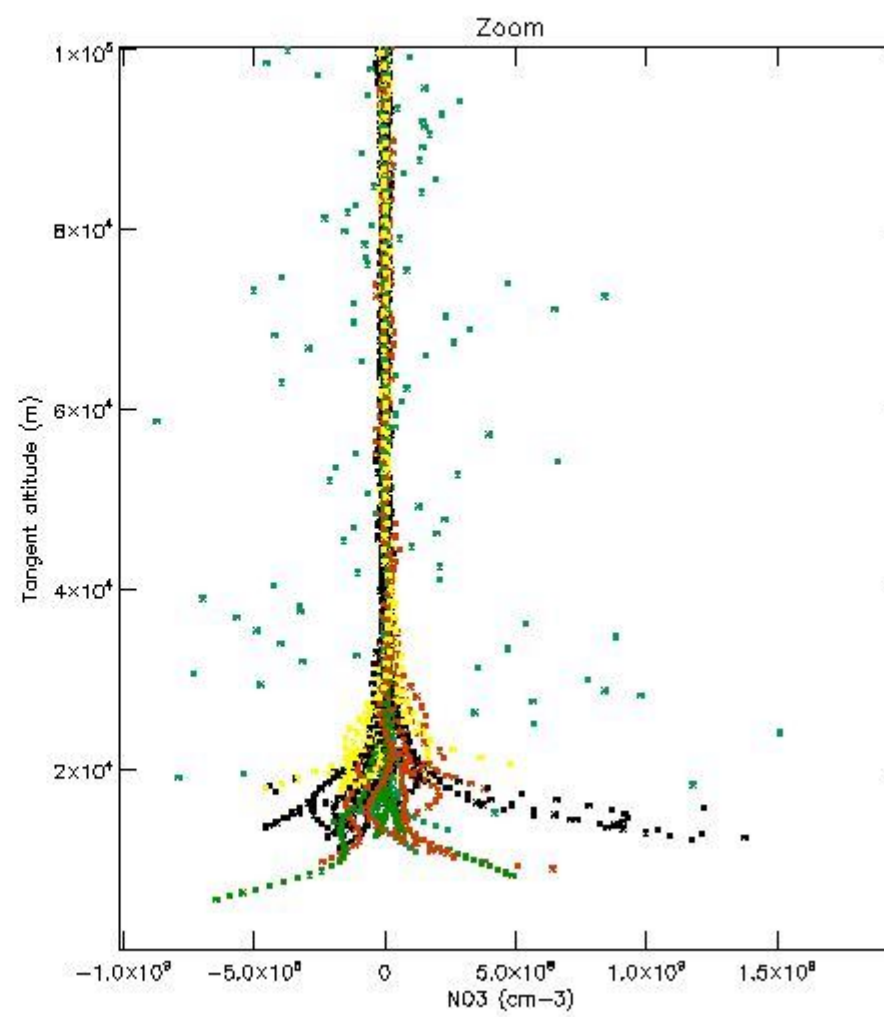
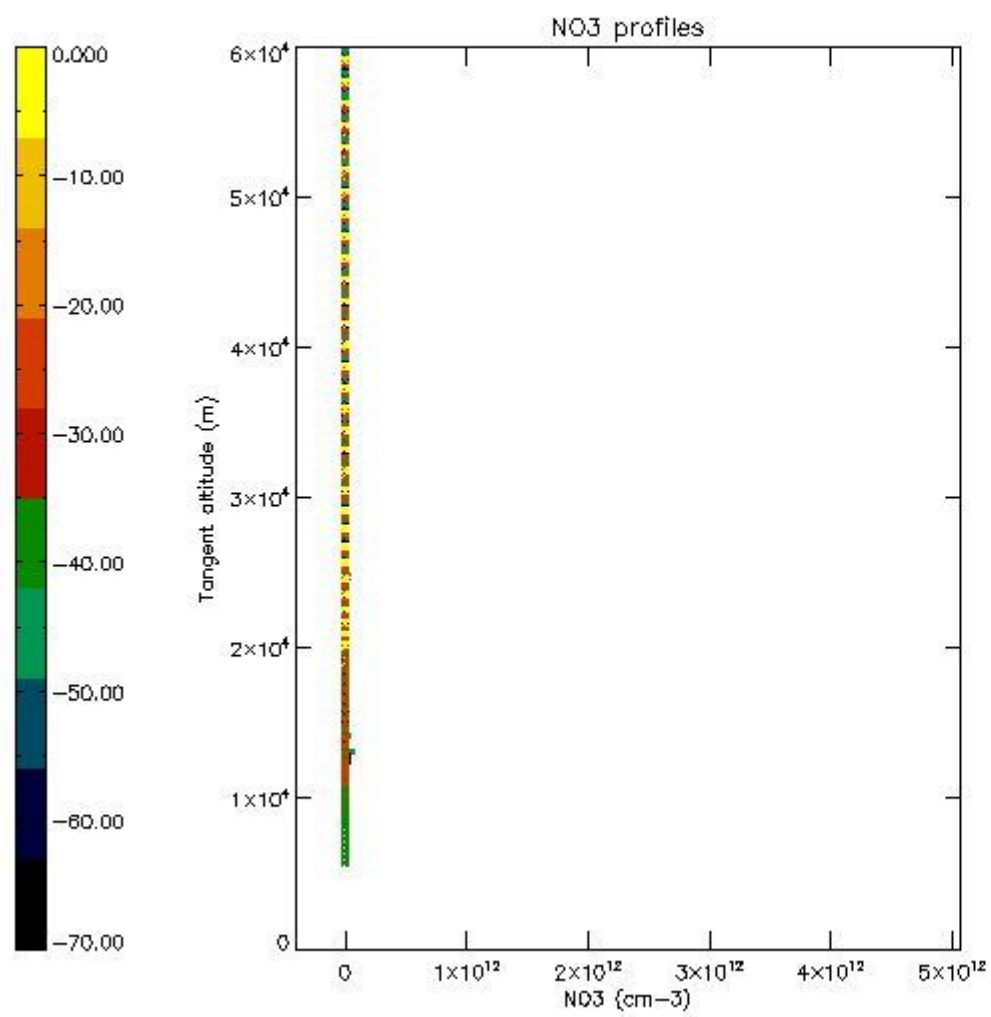
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



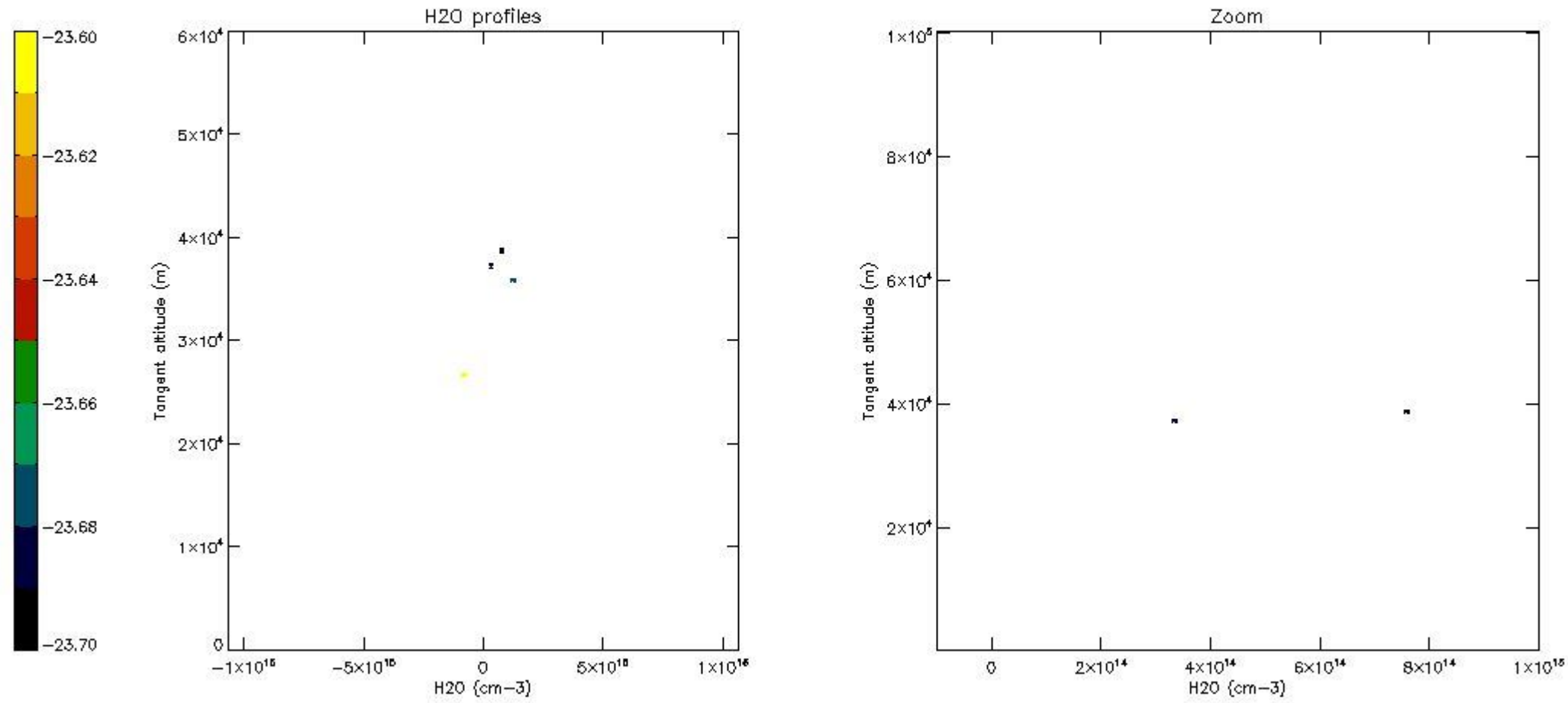
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



5.8 Plot H<sub>2</sub>O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors)

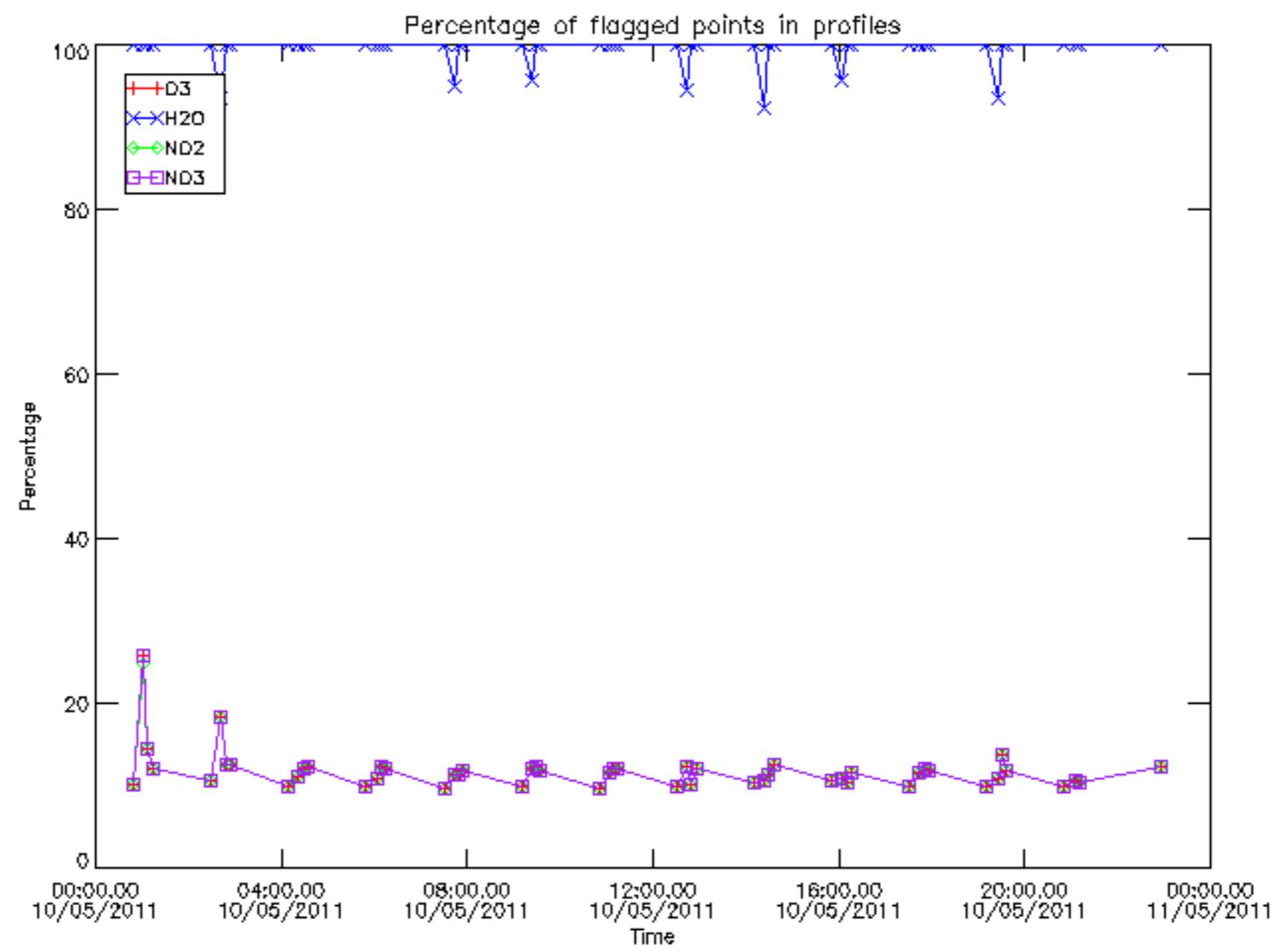
The colorbar represents the latitude.



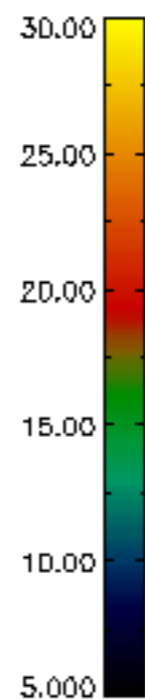
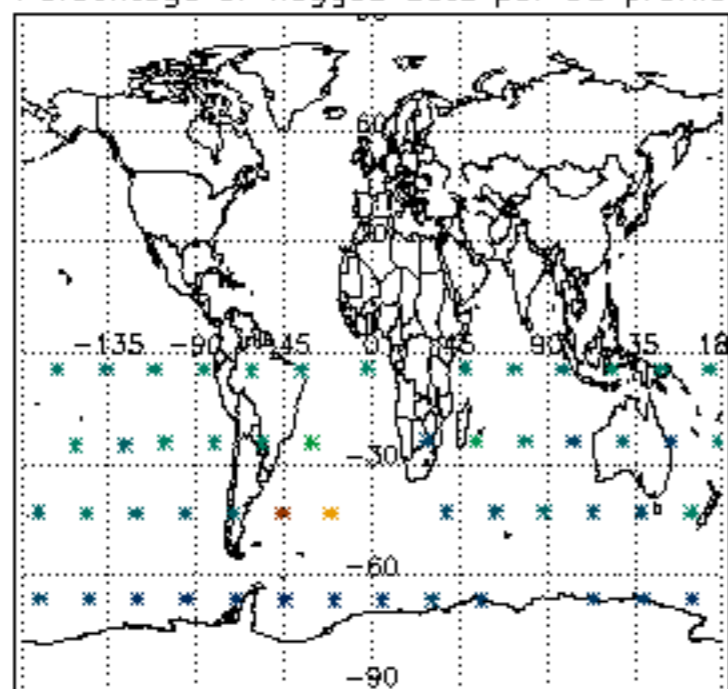
## 6. Auxiliary Data Files used for the production reported in section 2

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.

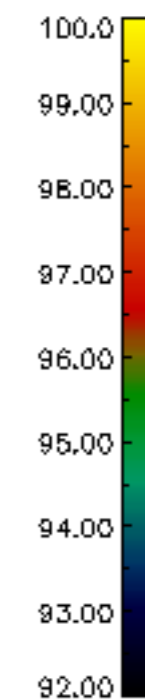
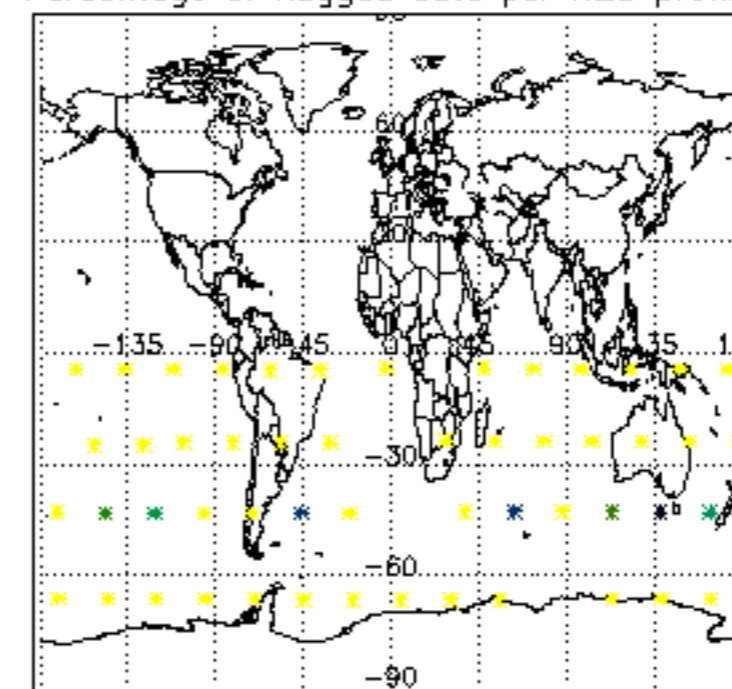
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	10-MAY-2011 00:03:03
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	10-MAY-2011 00:03:03
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	10-MAY-2011 00:03:03



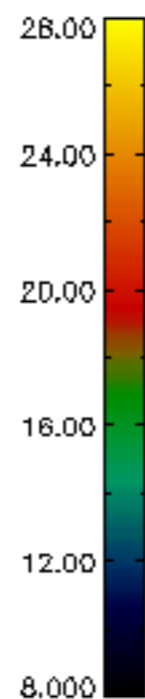
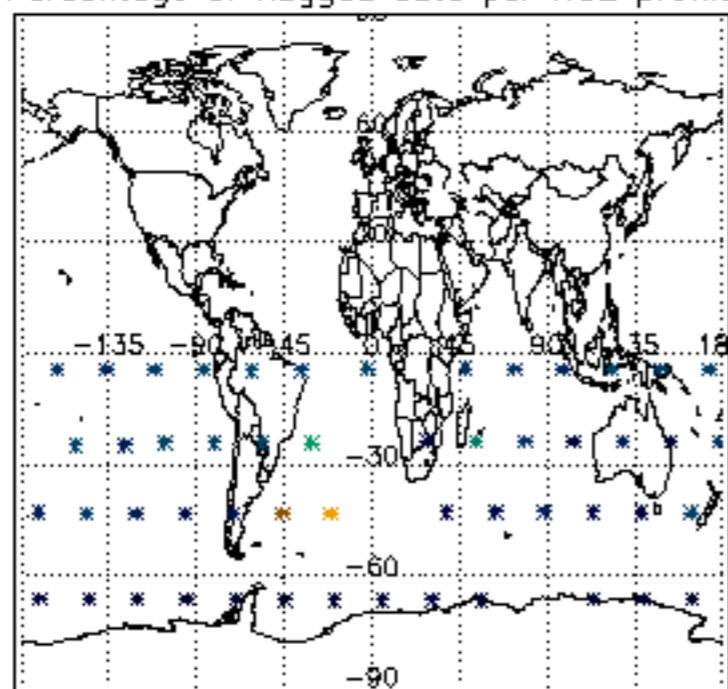
Percentage of flagged data per D3 profile



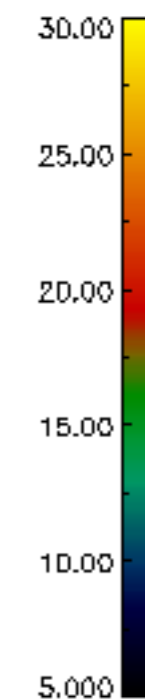
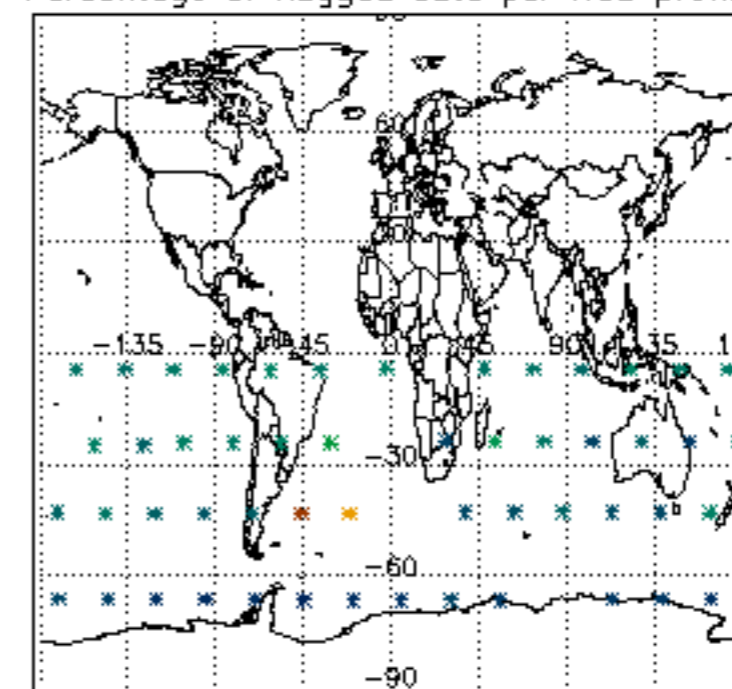
Percentage of flagged data per H2O profile



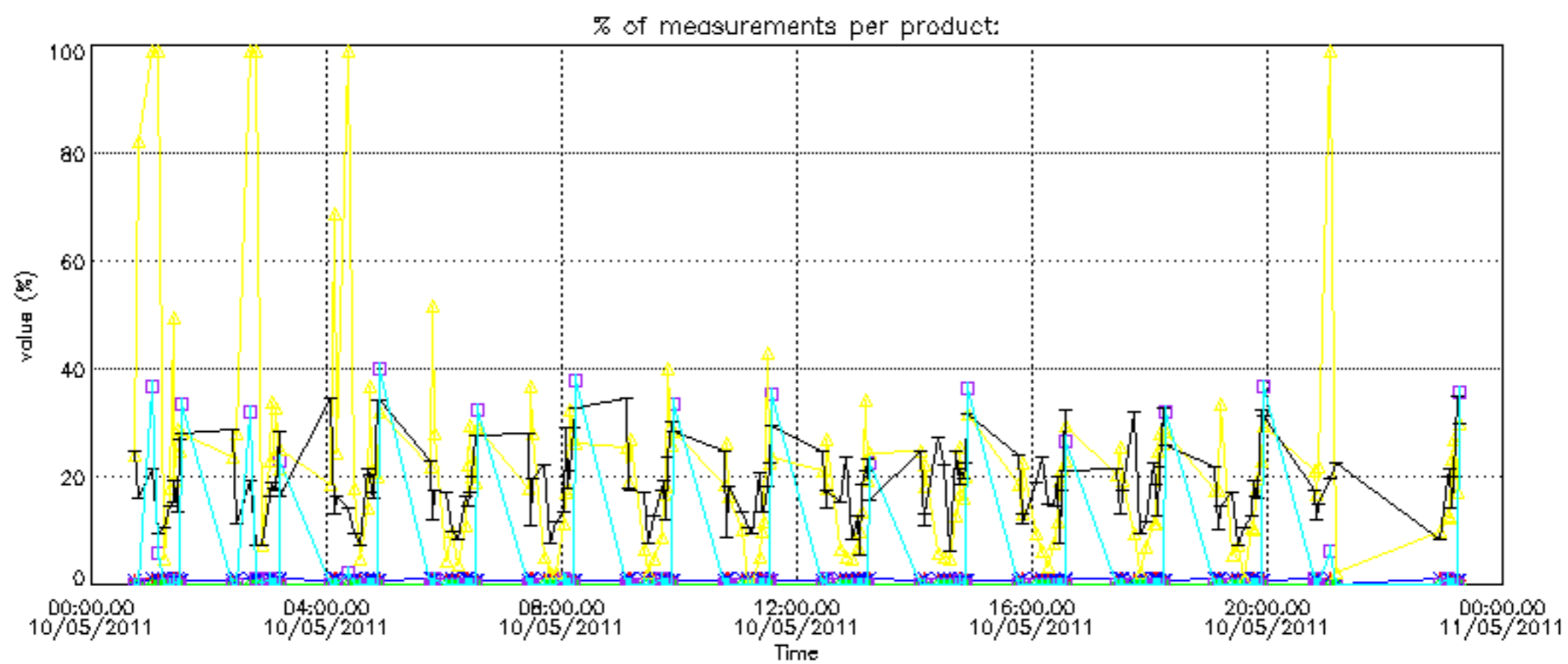
Percentage of flagged data per NO2 profile

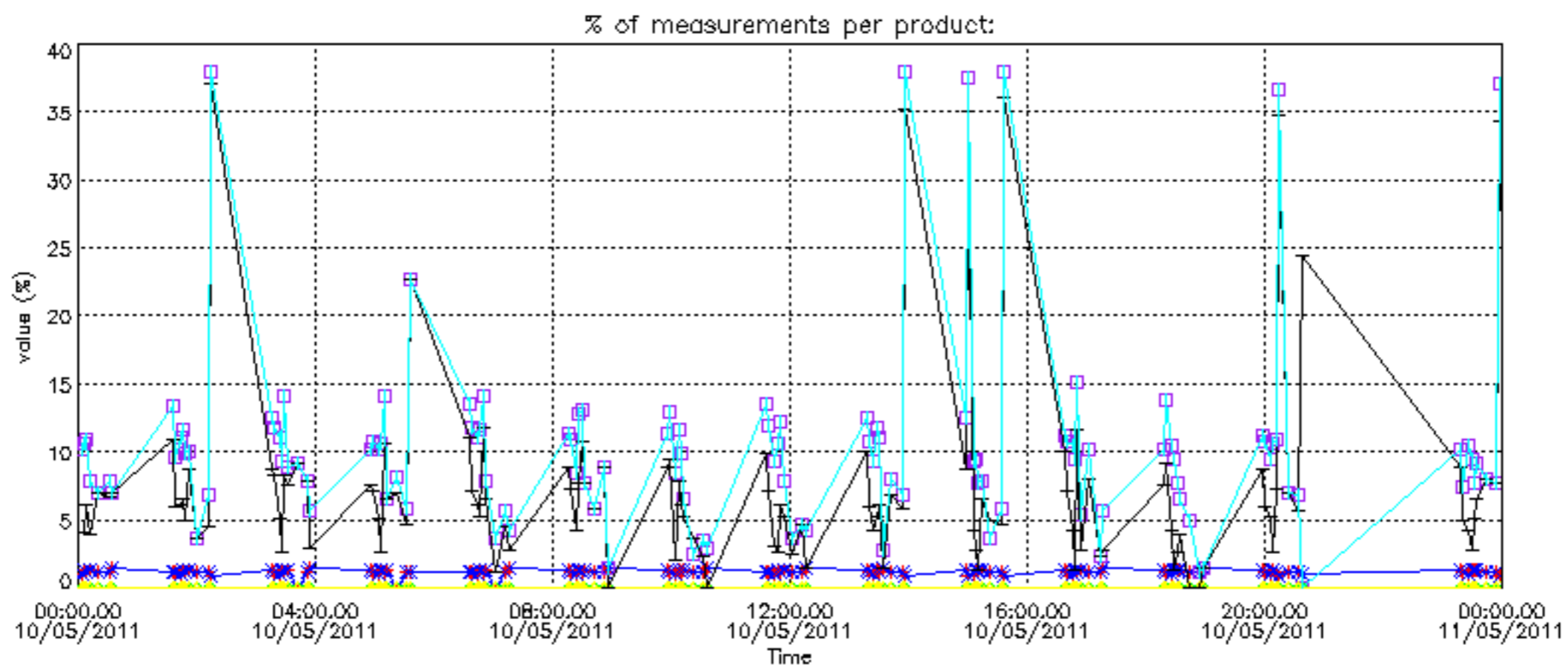


Percentage of flagged data per NO3 profile

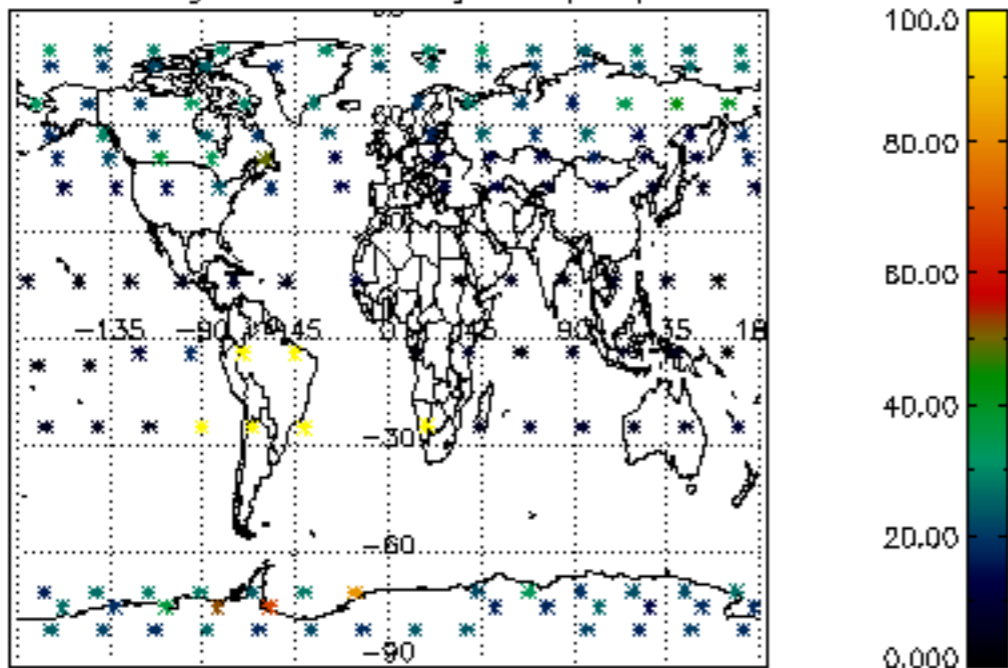




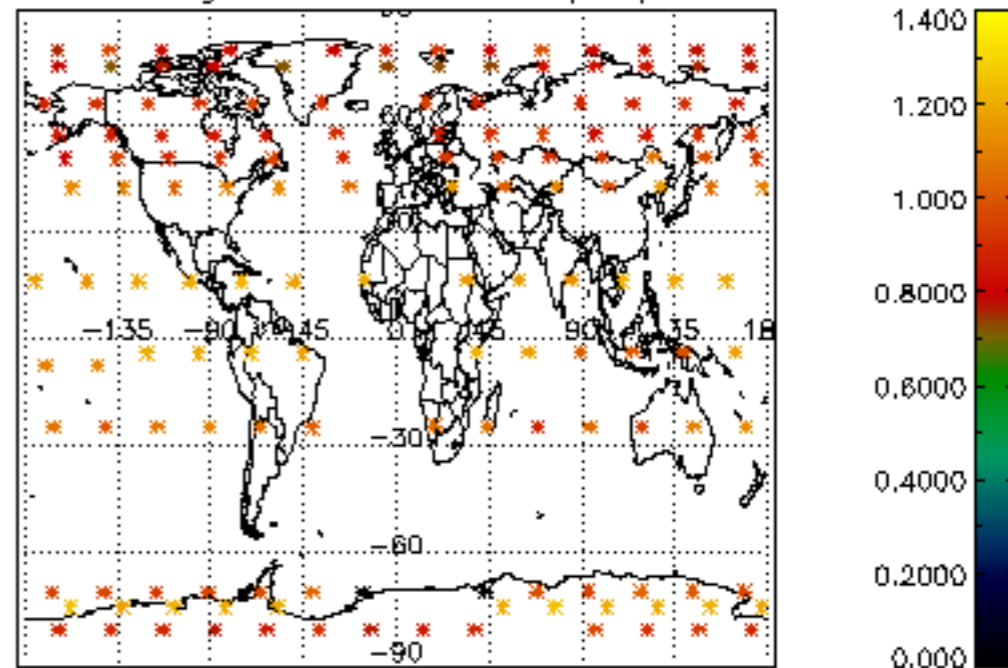




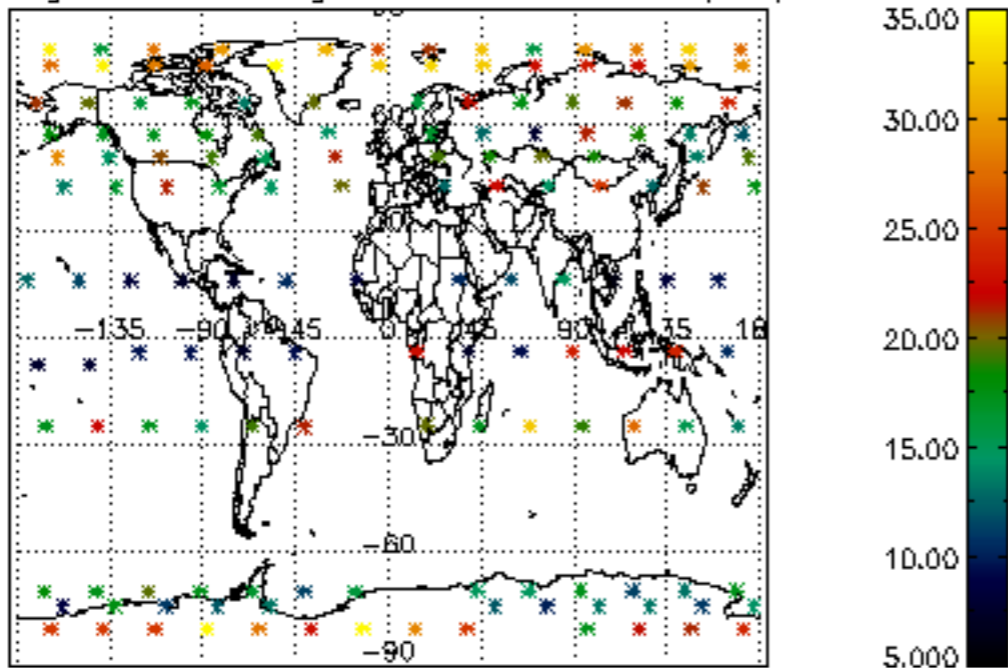
Percentage of cosmic ray hits per profile



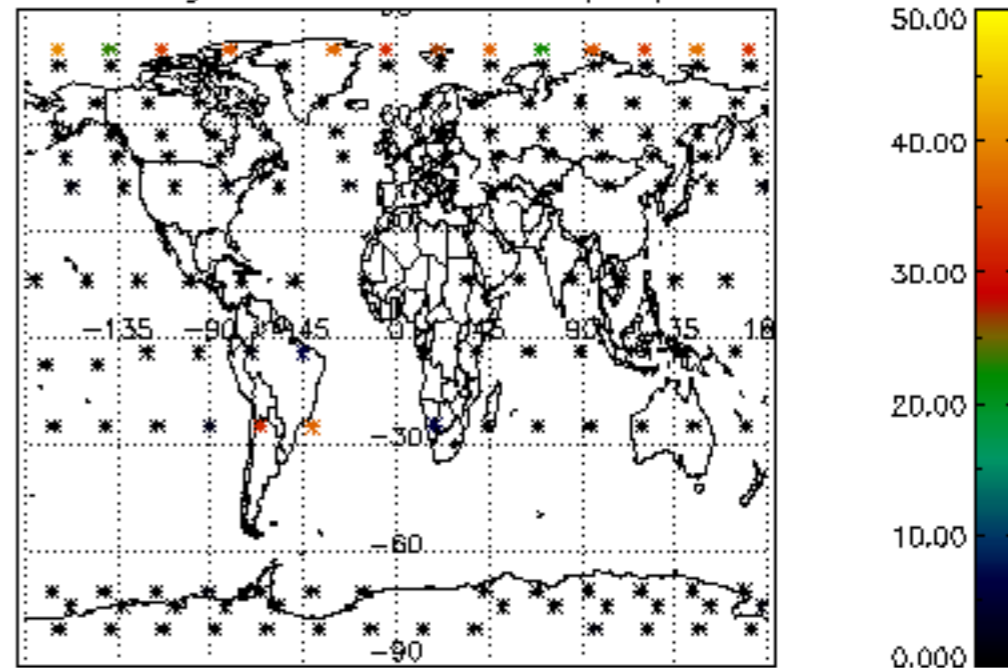
Percentage of datation errors per profile



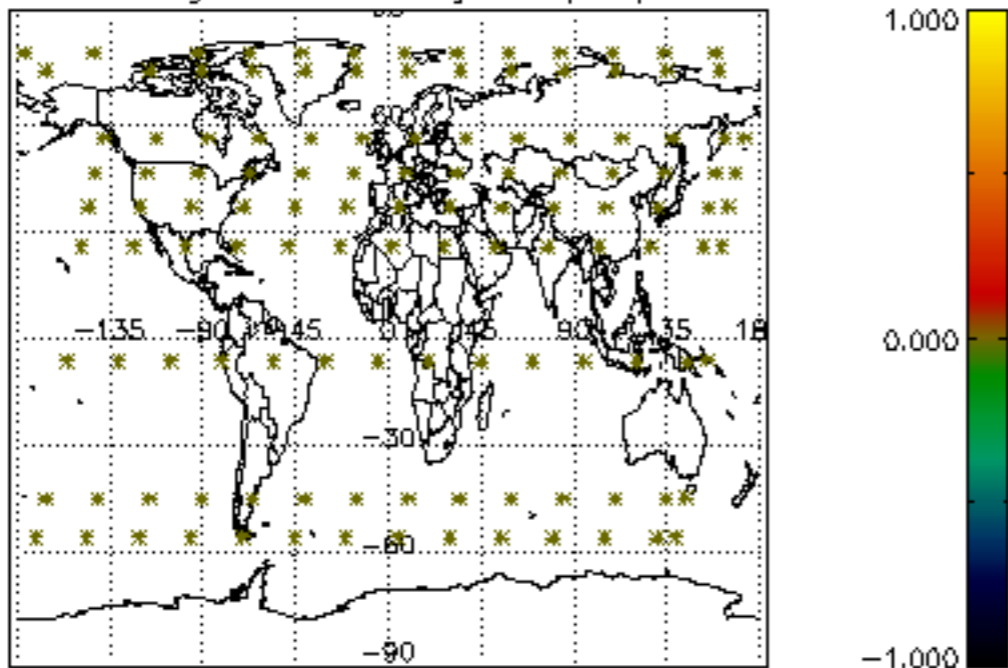
Percentage of star falling outside central band per profile



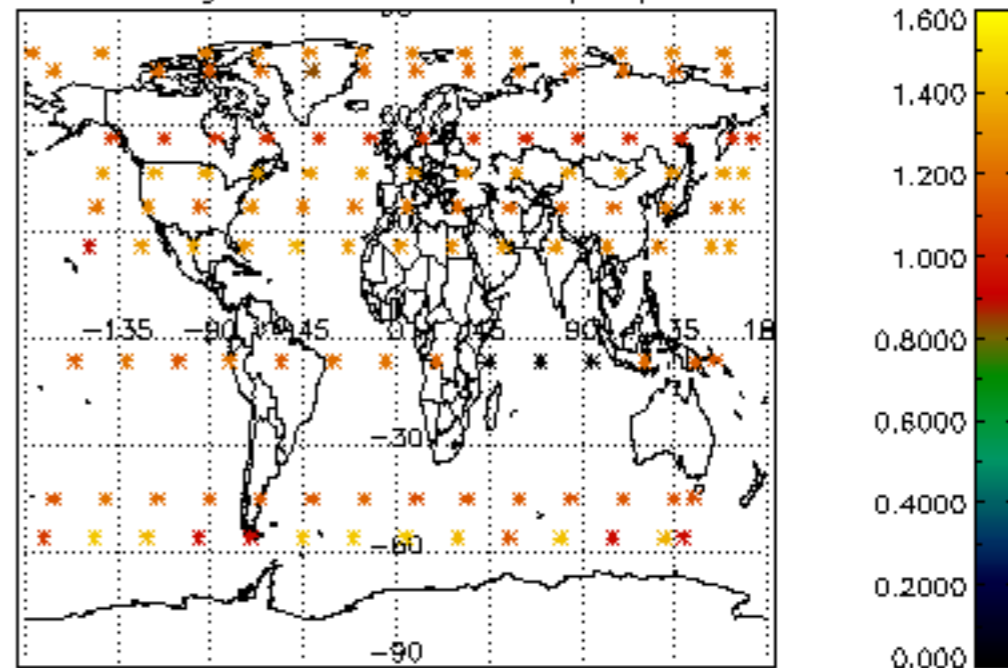
Percentage of saturation errors per profile



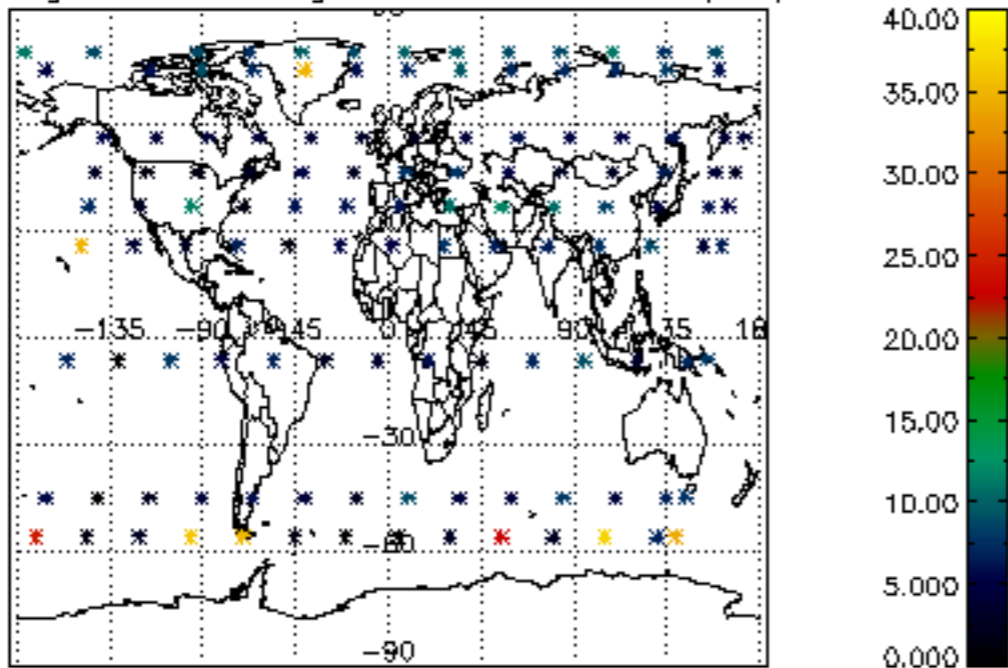
Percentage of cosmic ray hits per profile



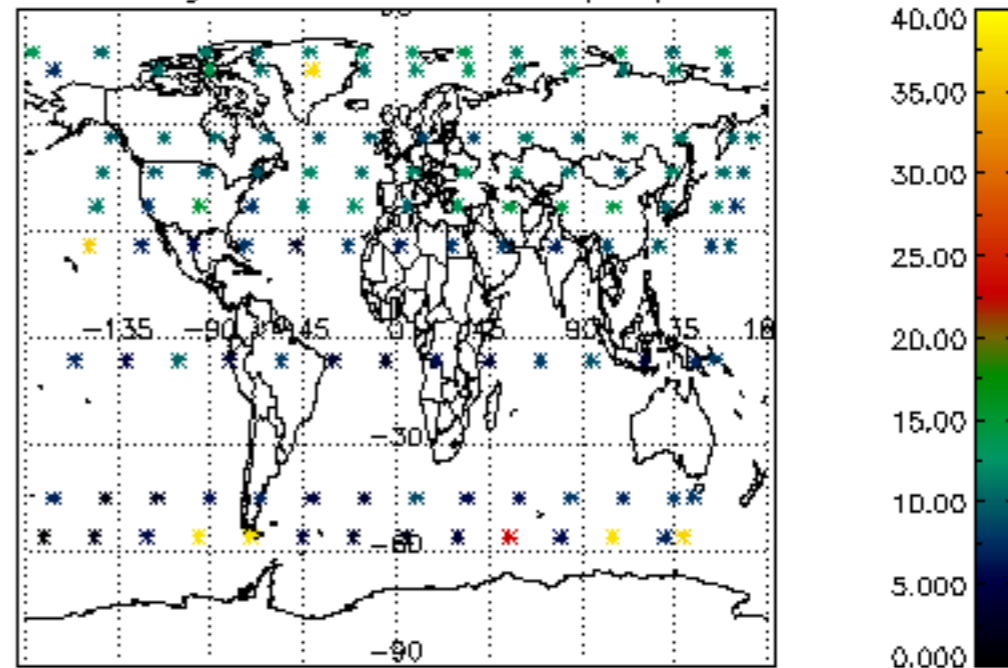
Percentage of datation errors per profile

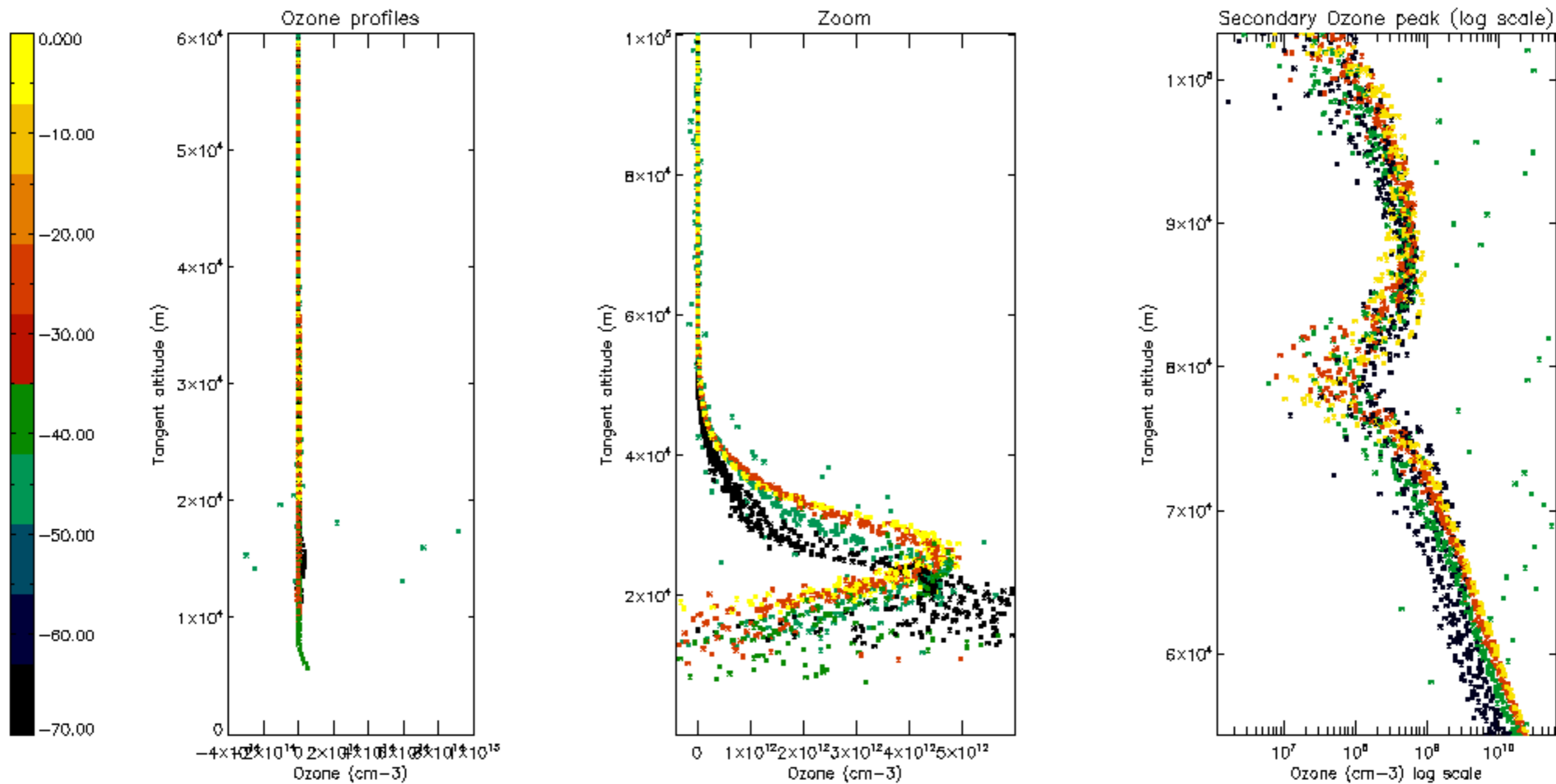


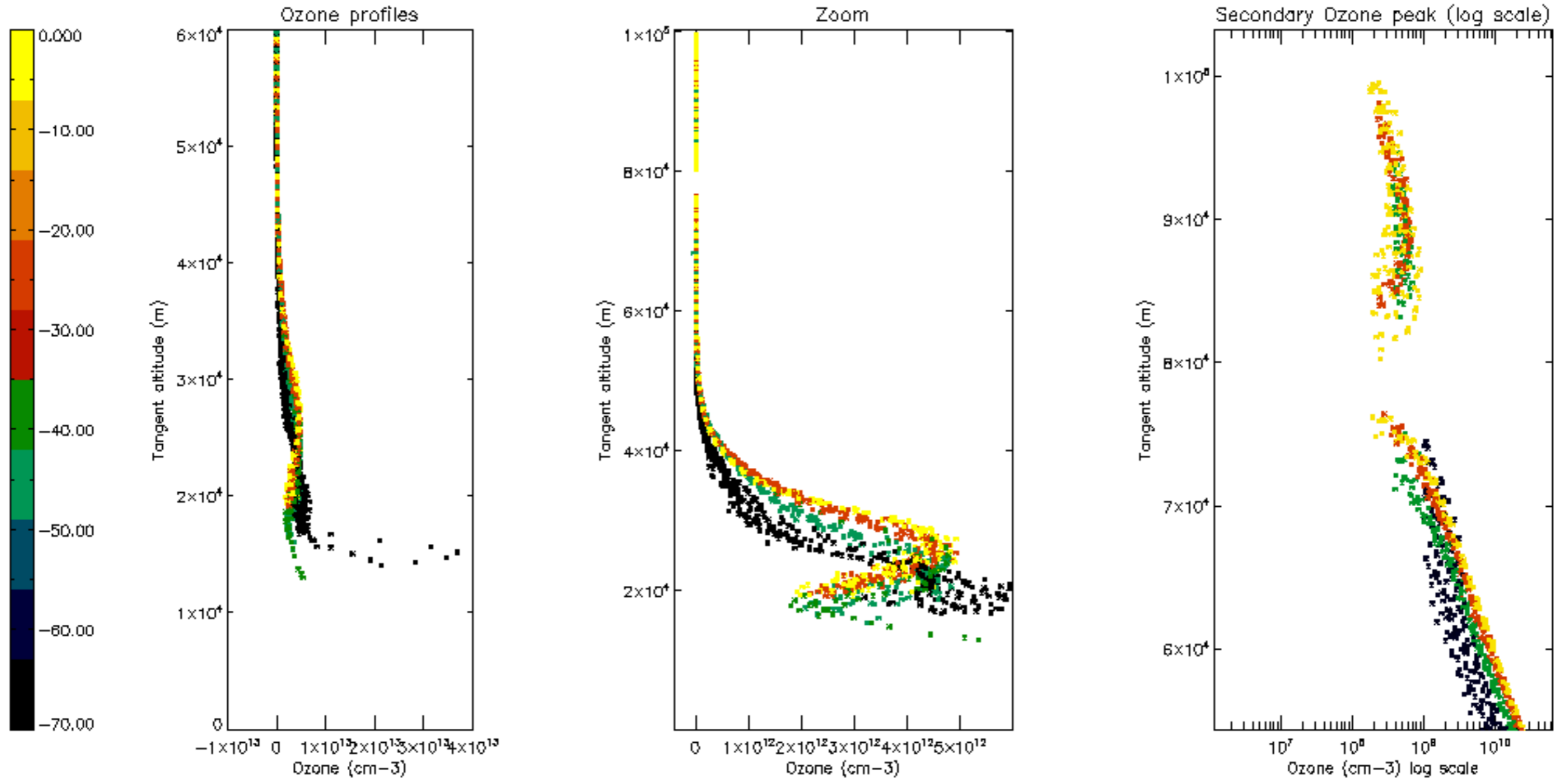
Percentage of star falling outside central band per profile

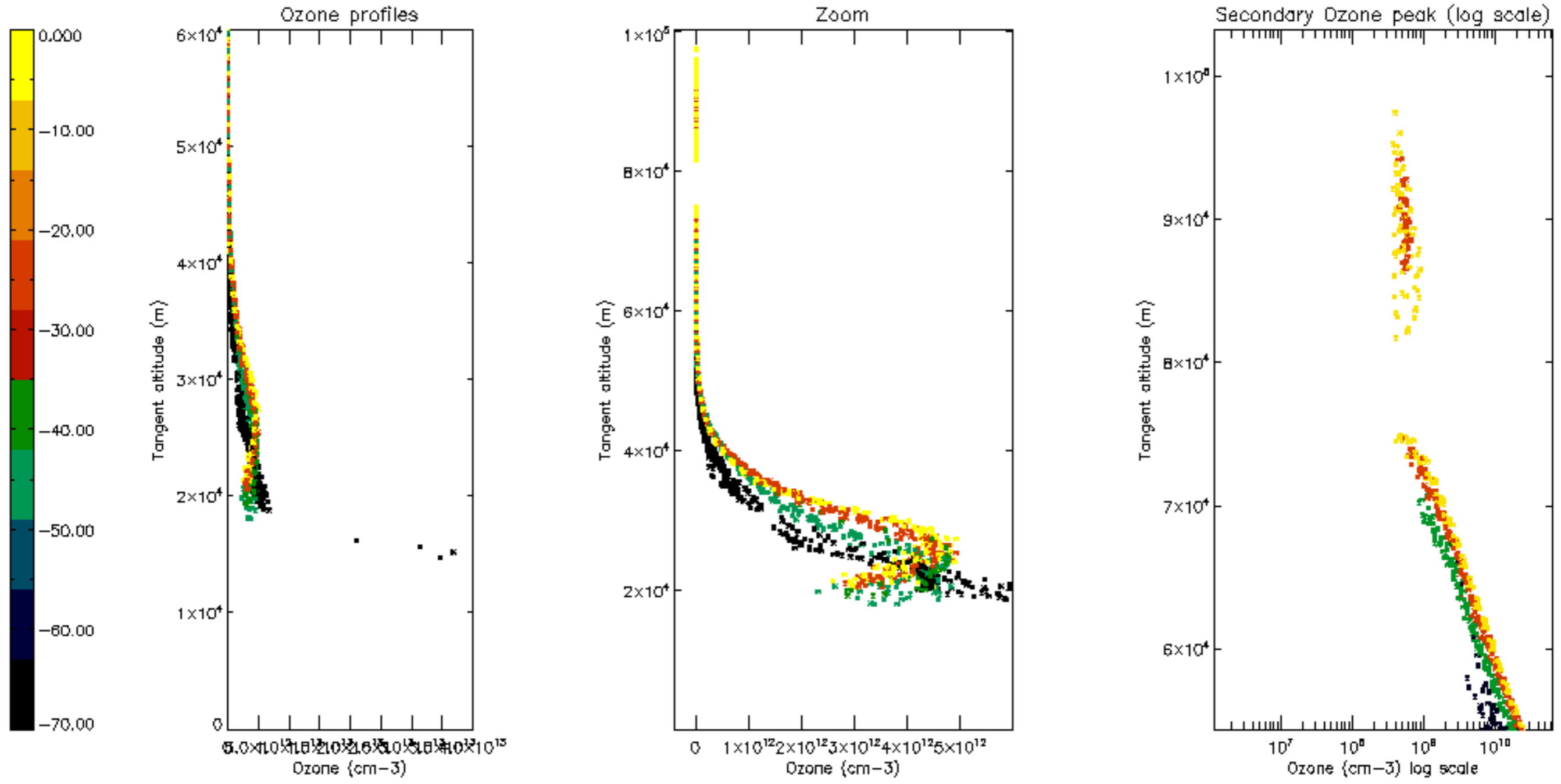


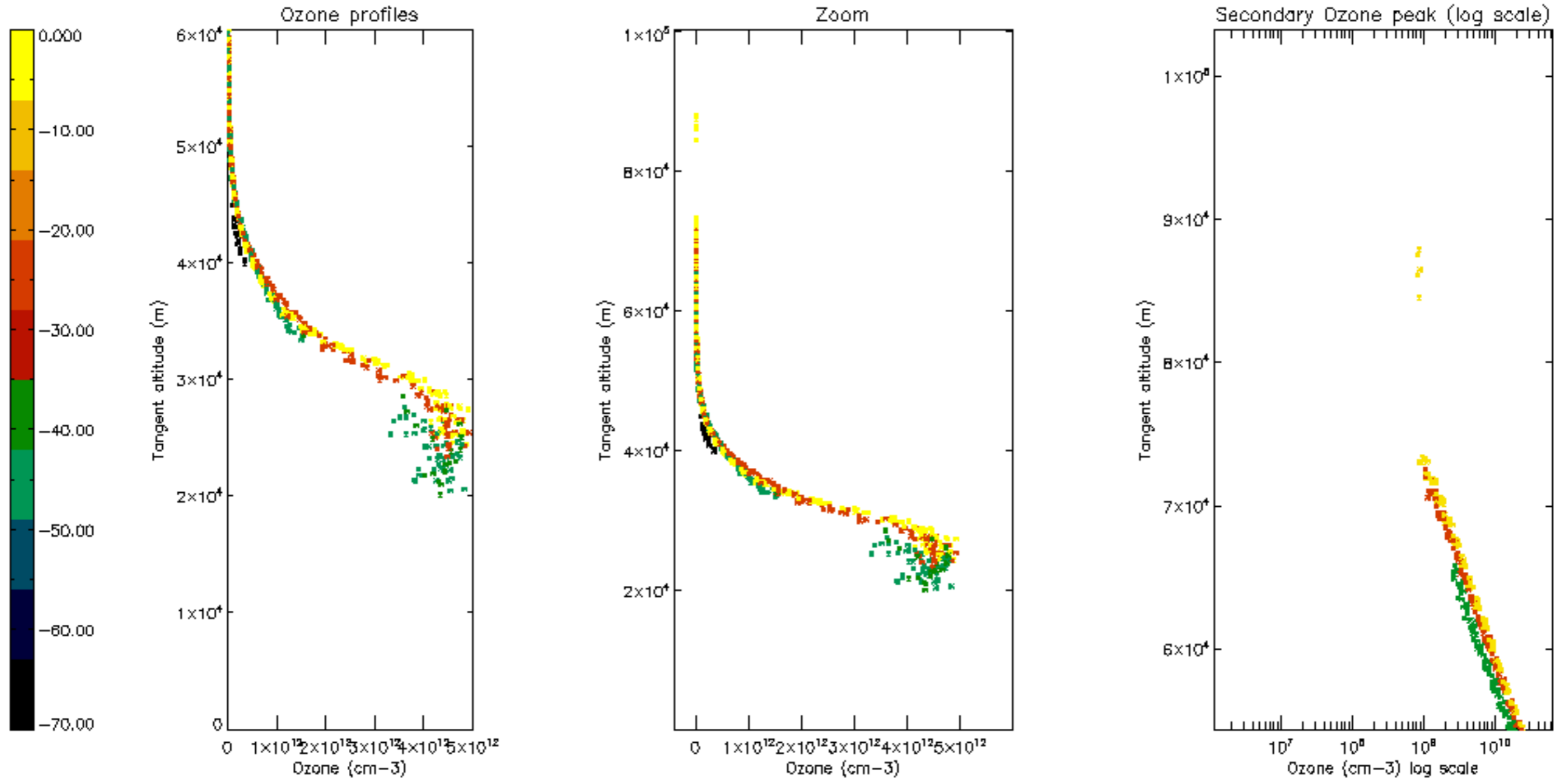
Percentage of saturation errors per profile



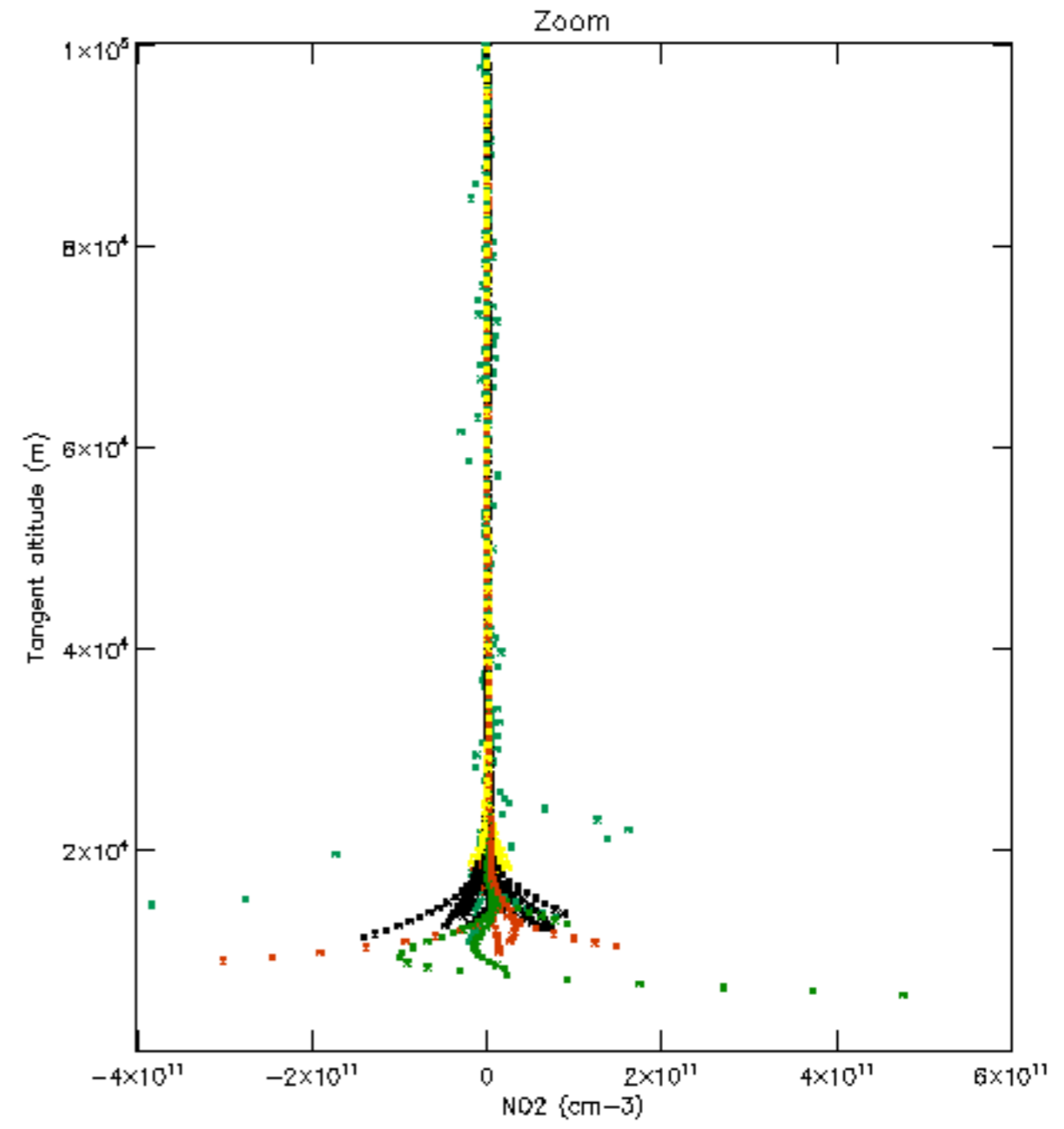
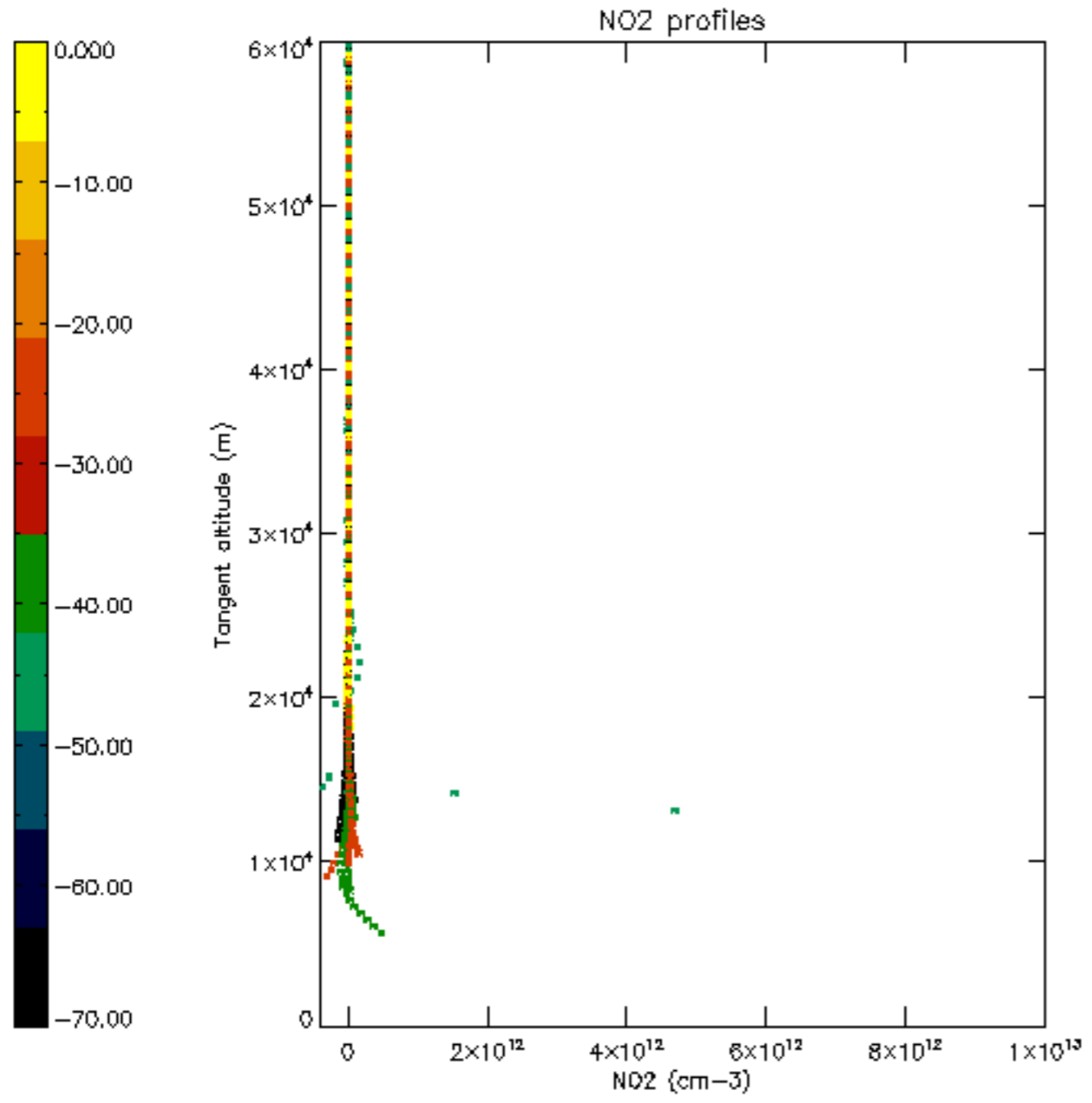


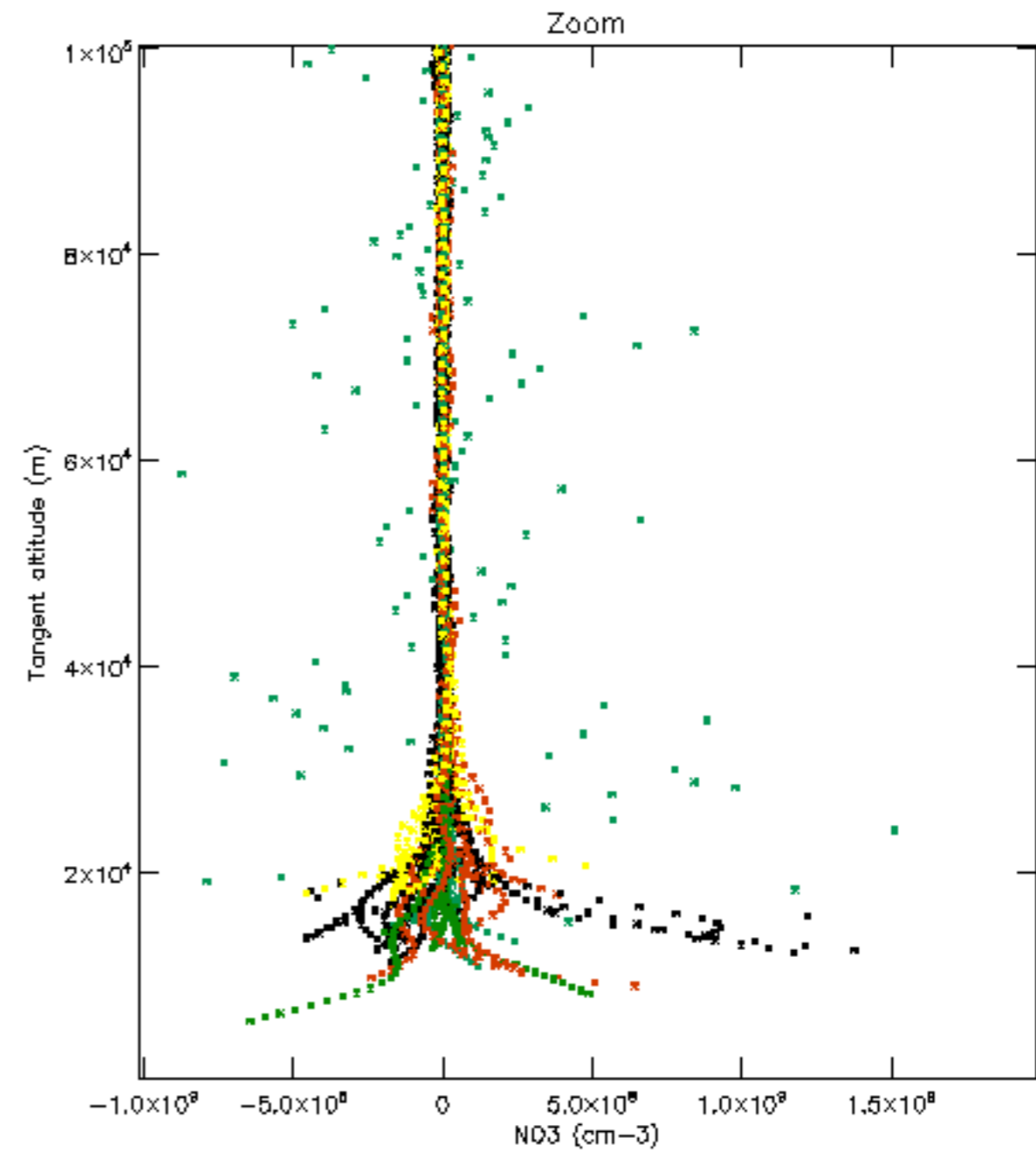
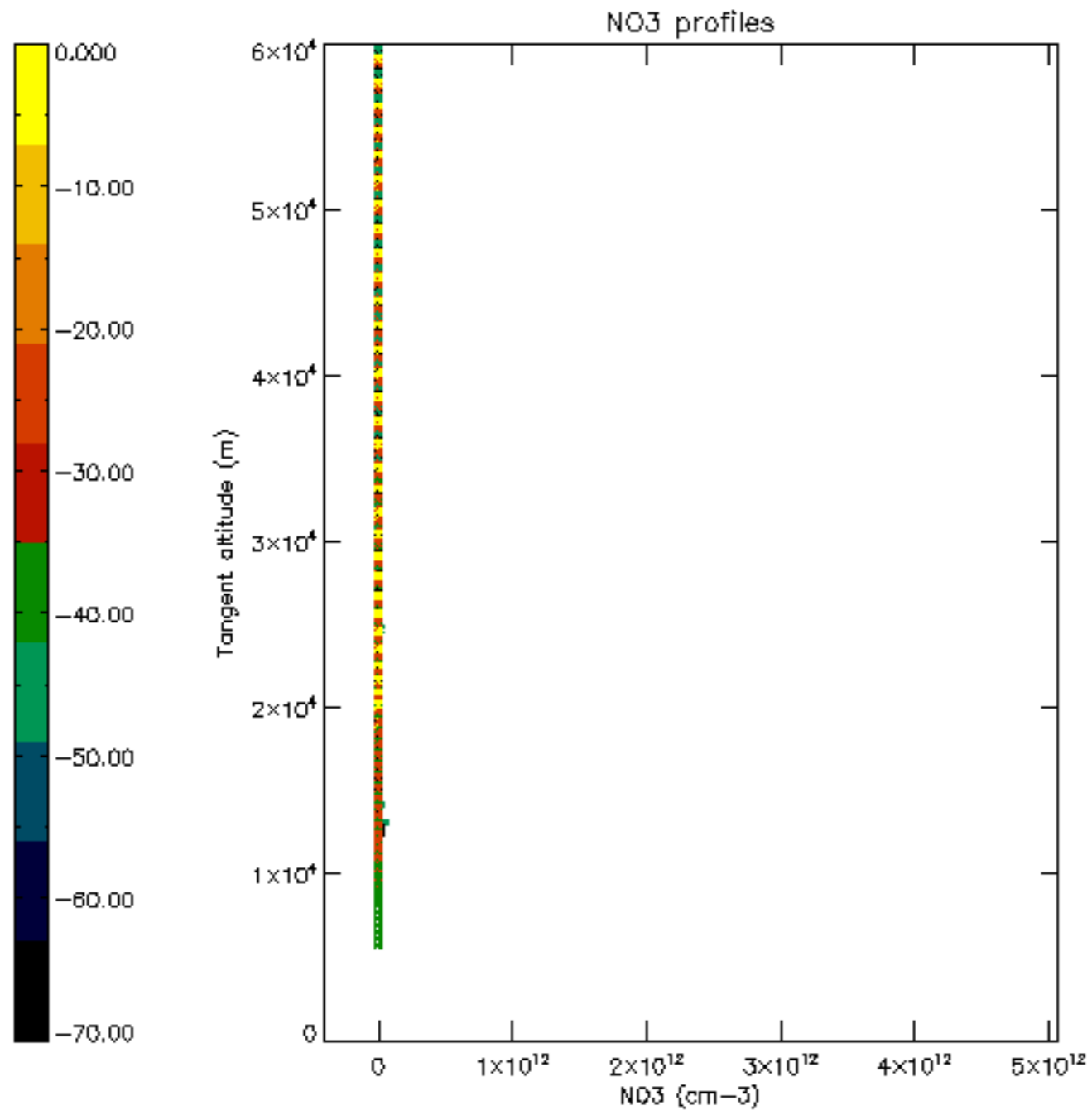


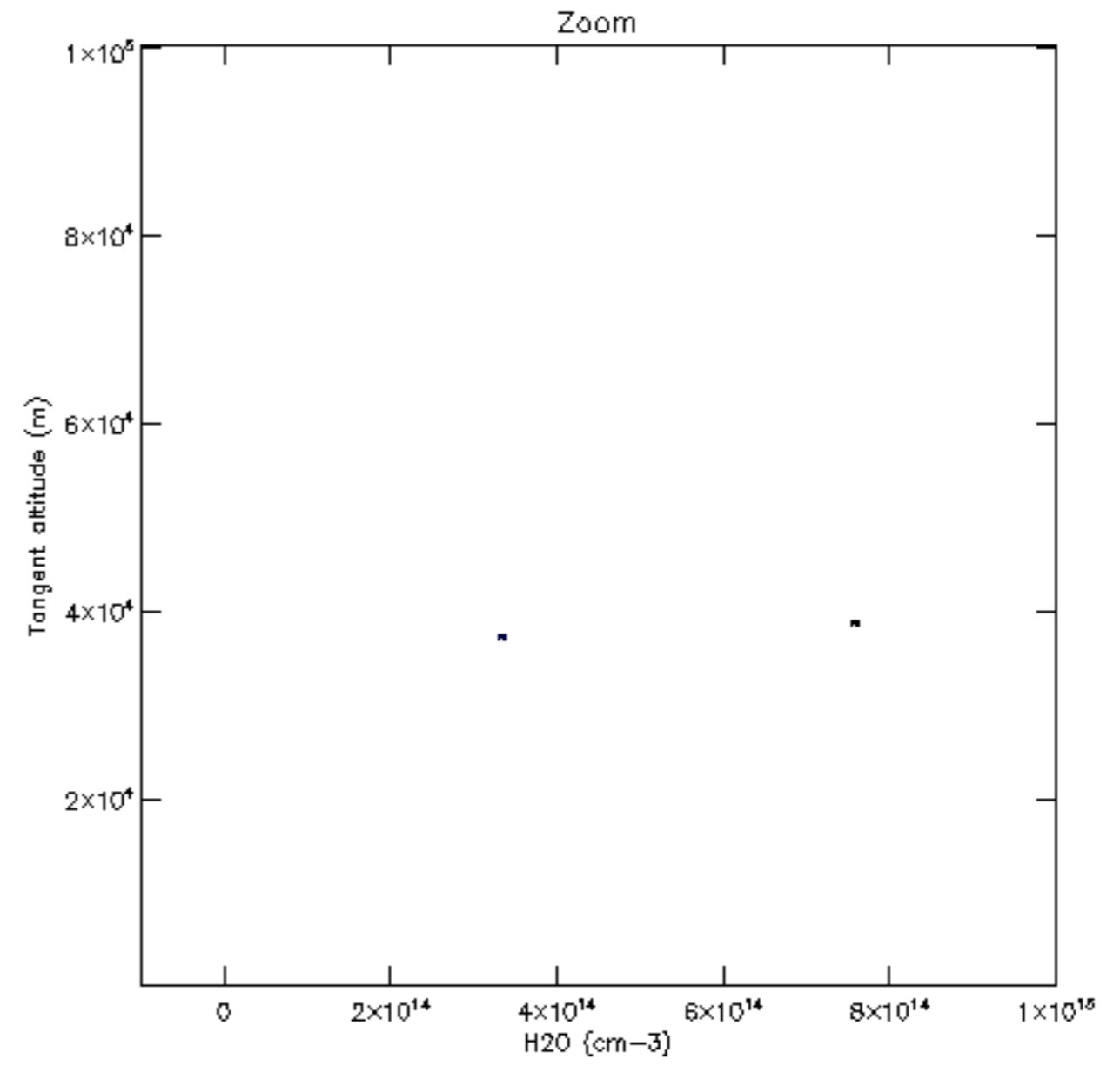
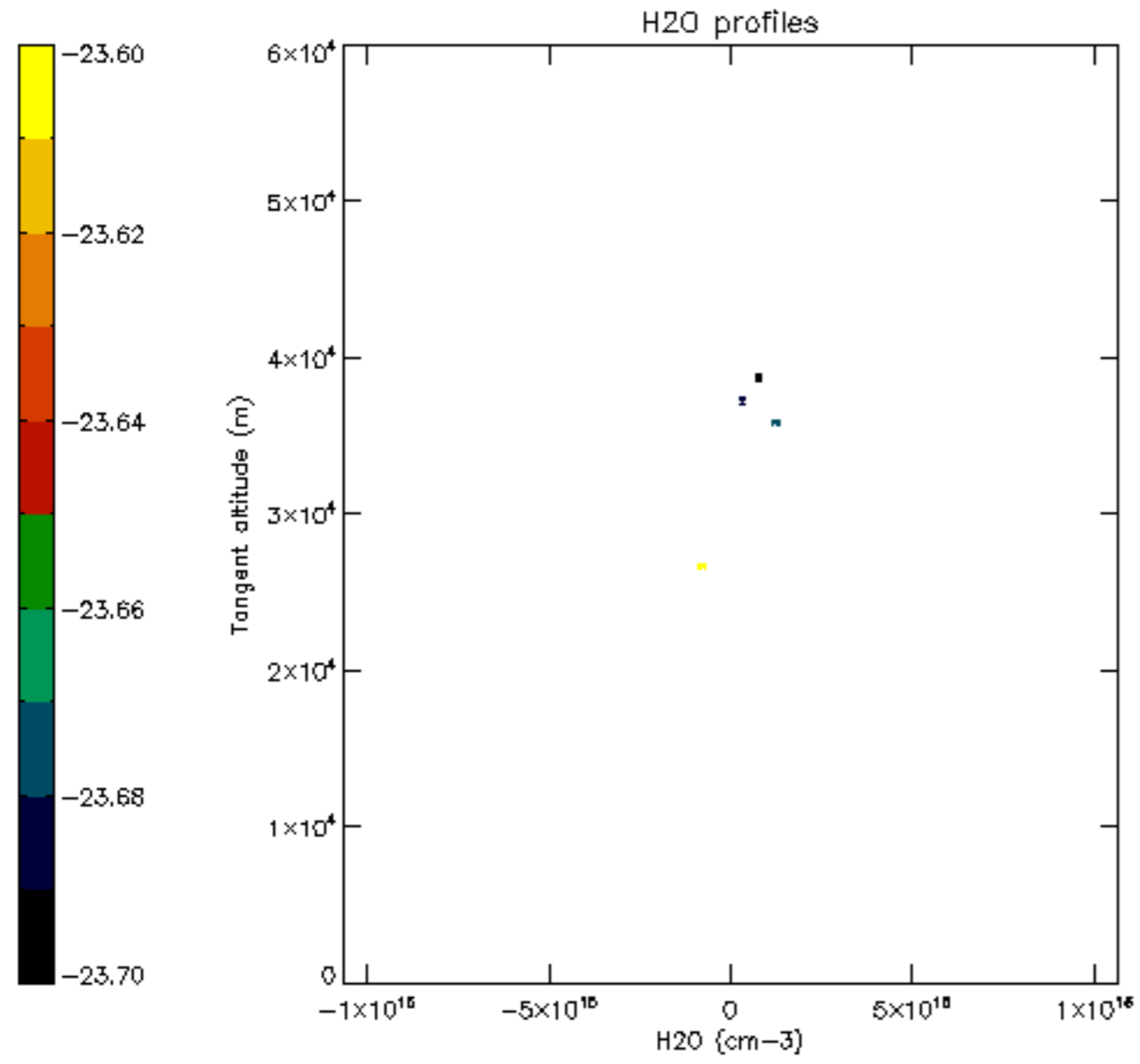


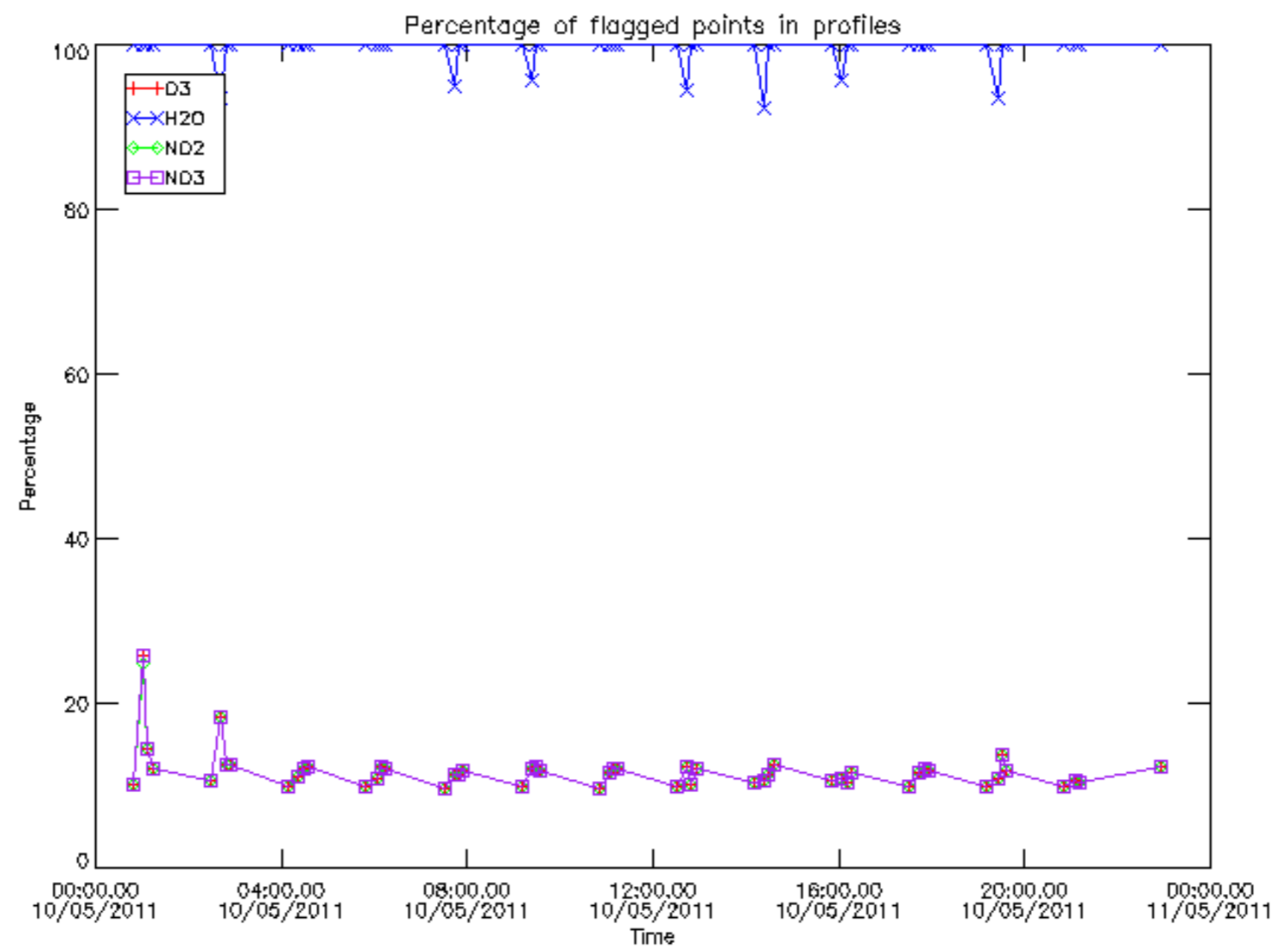




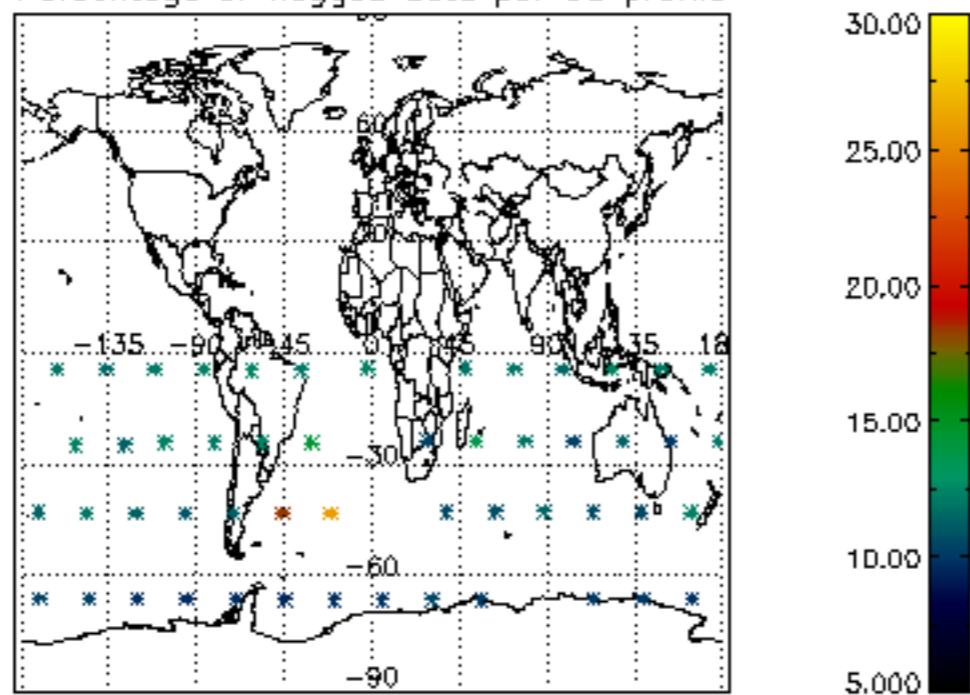




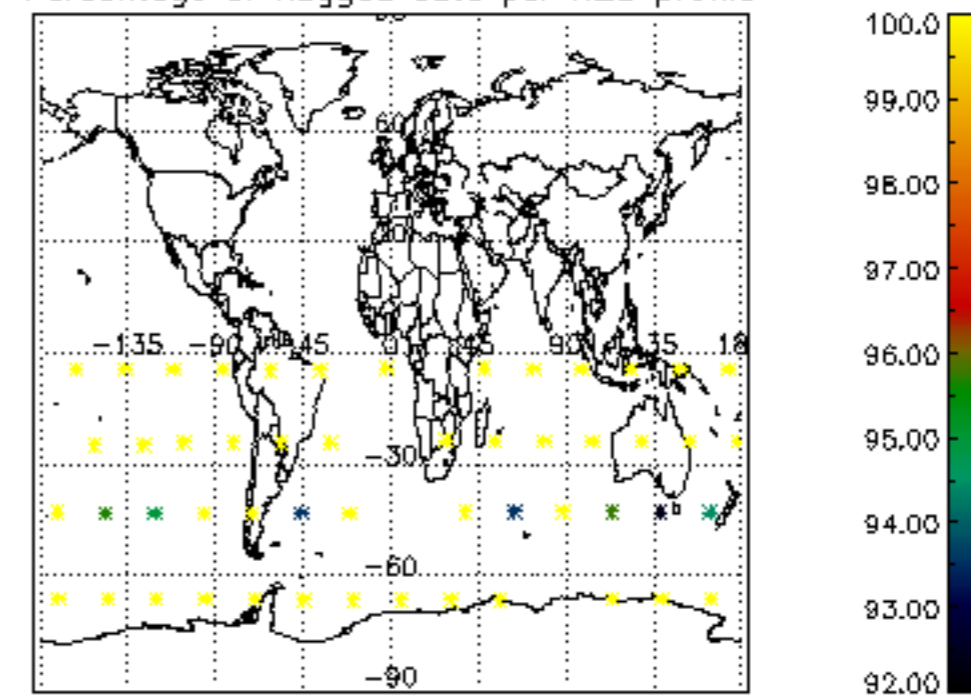




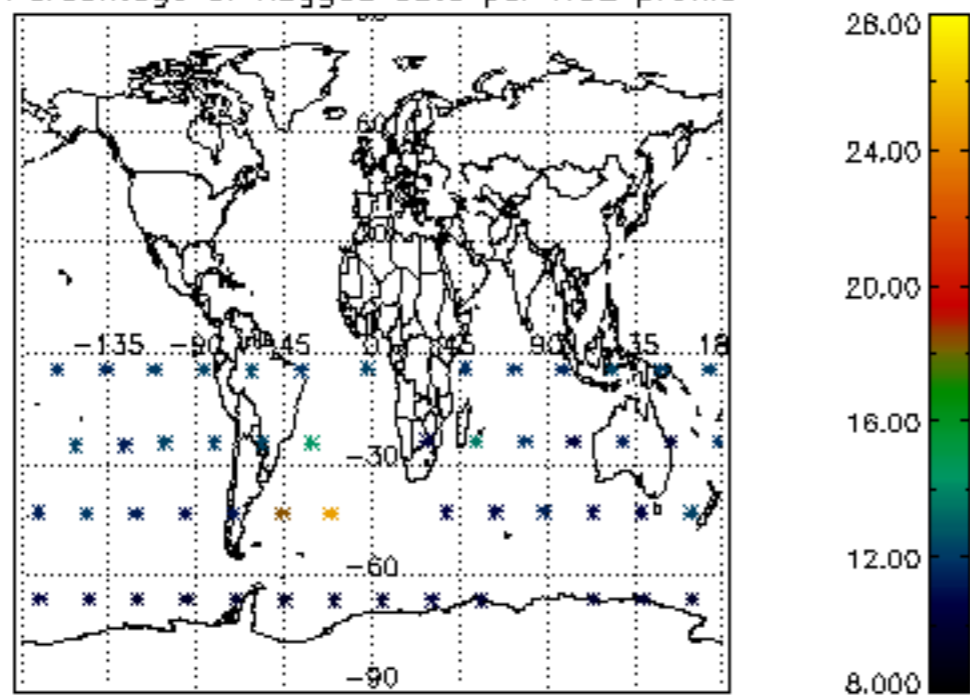
Percentage of flagged data per D3 profile



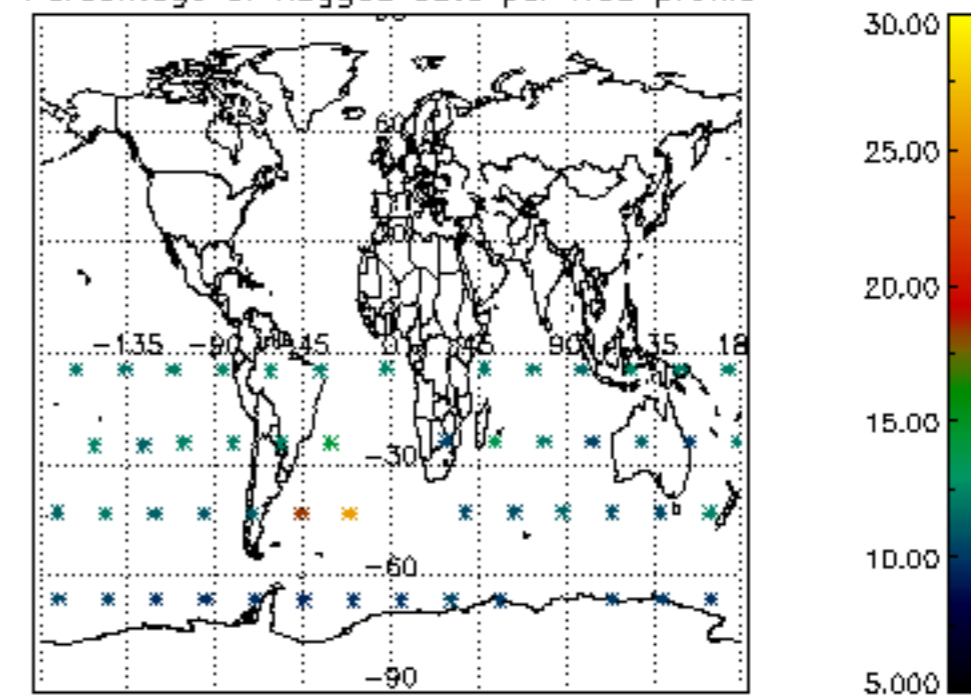
Percentage of flagged data per H2O profile

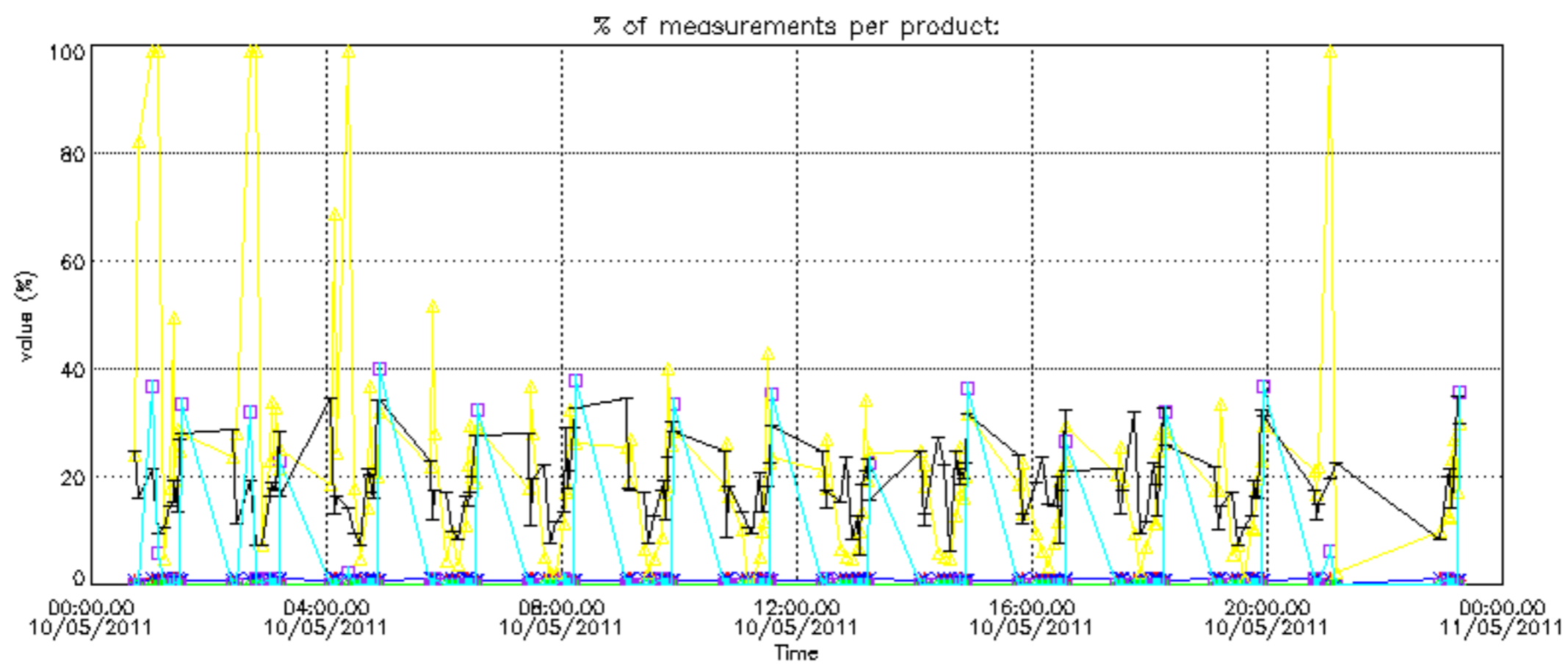
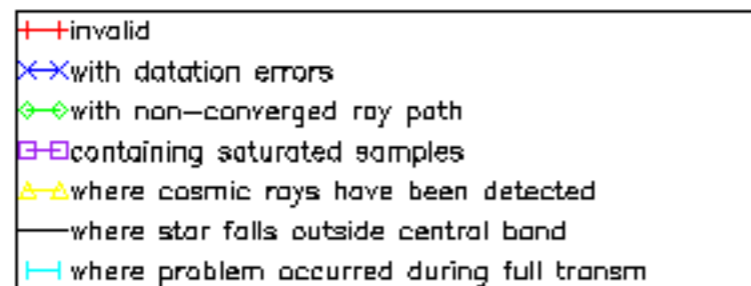


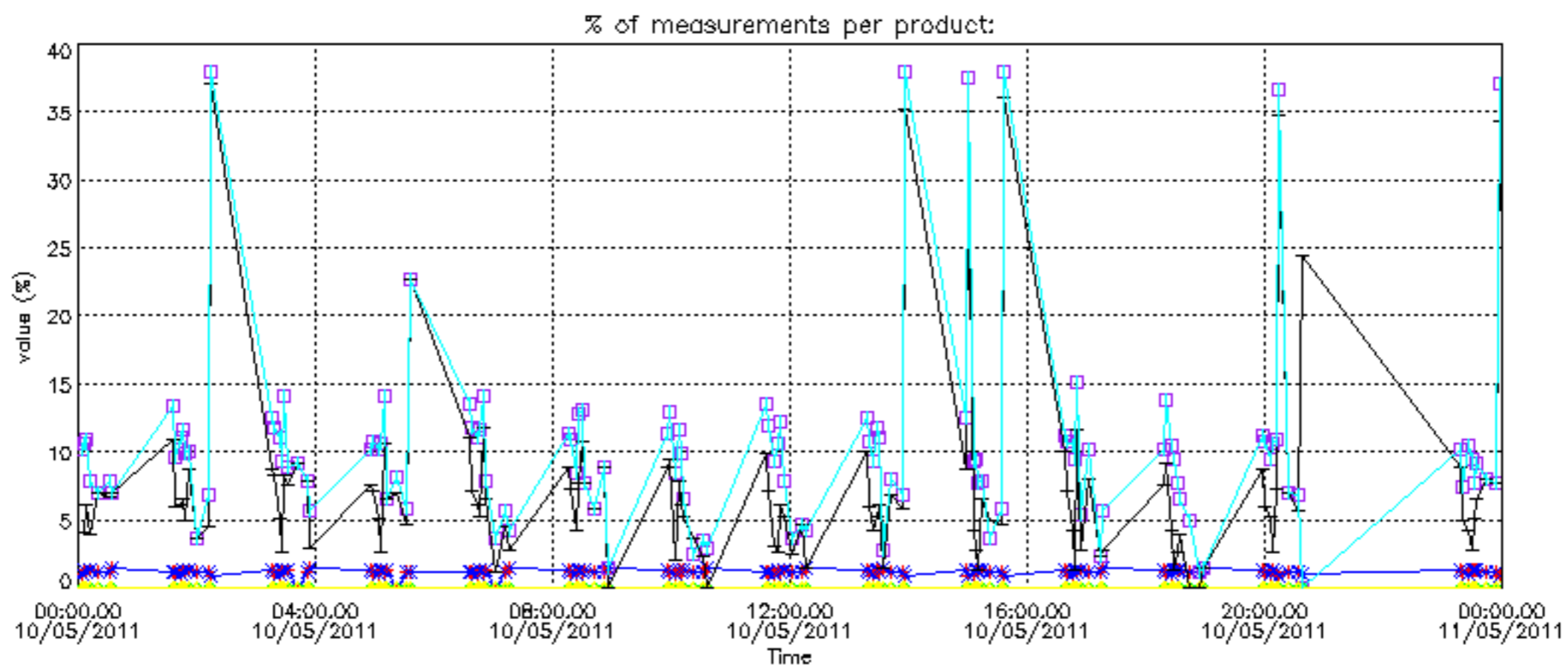
Percentage of flagged data per NO2 profile



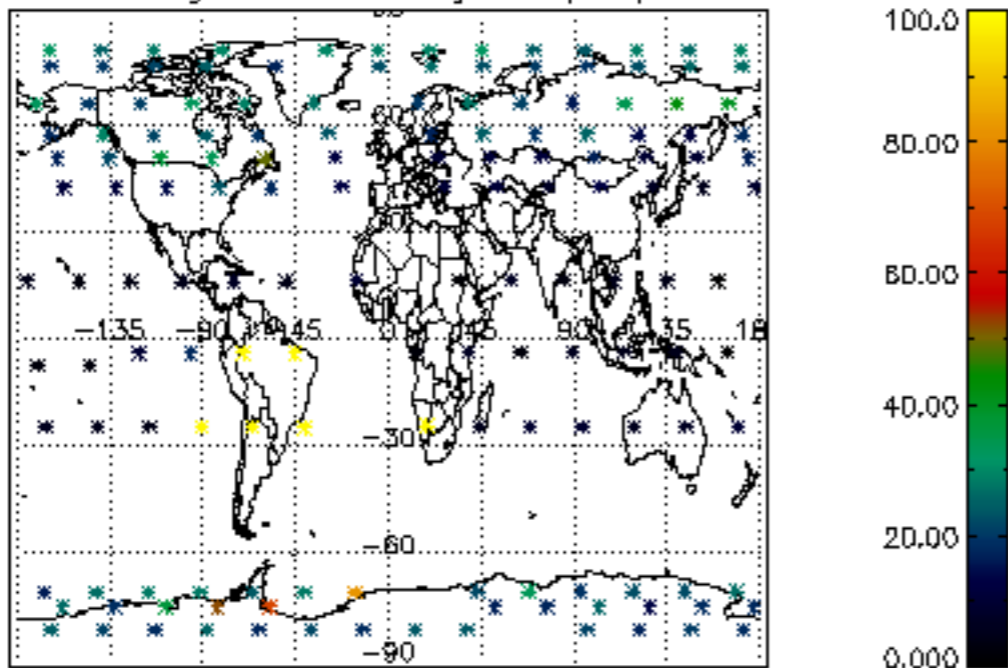
Percentage of flagged data per NO3 profile



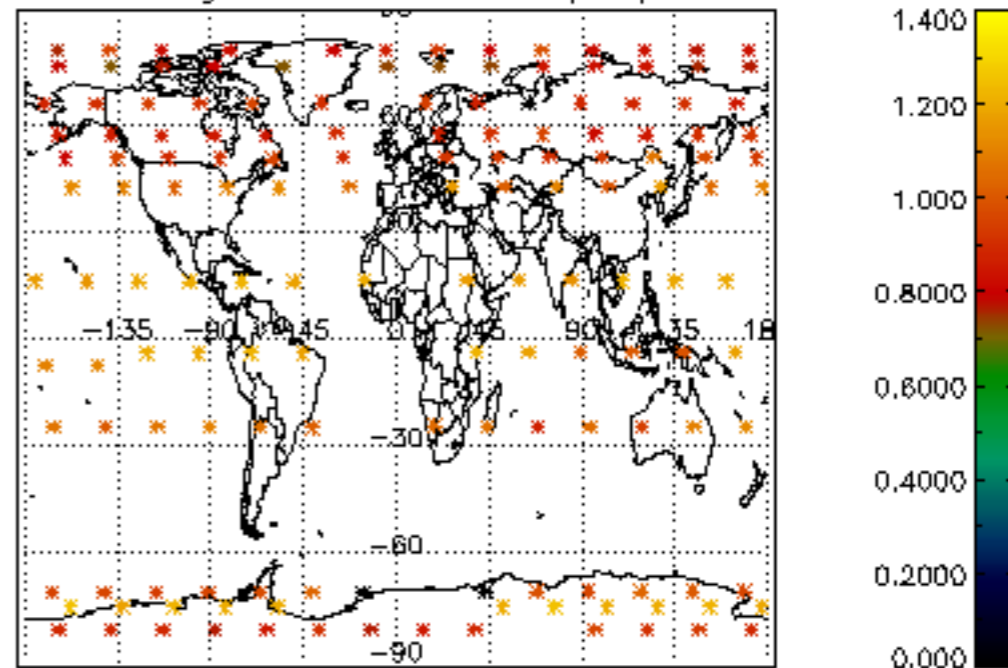




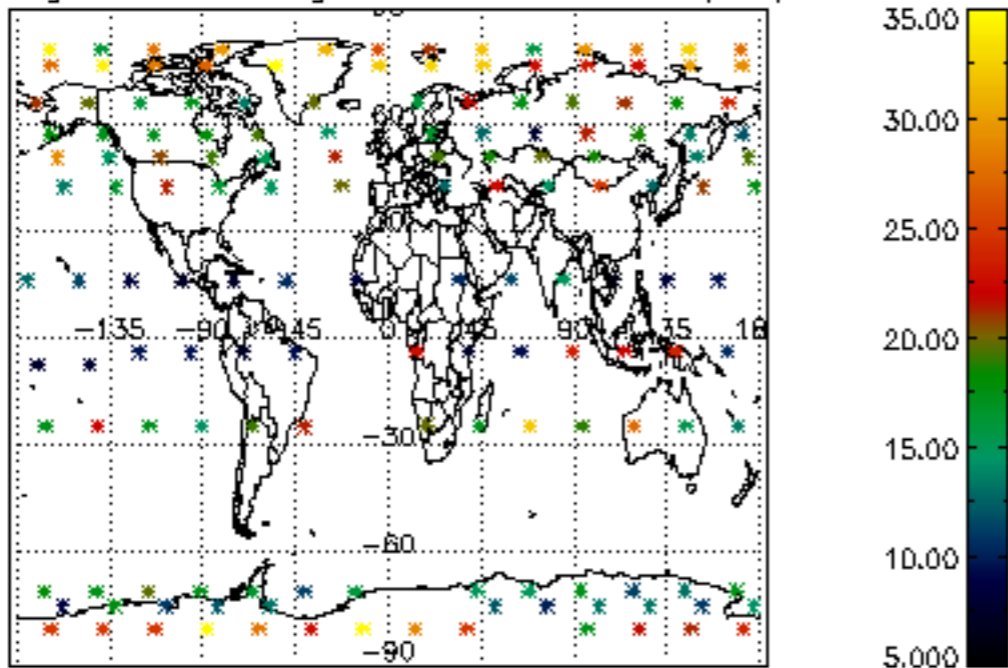
Percentage of cosmic ray hits per profile



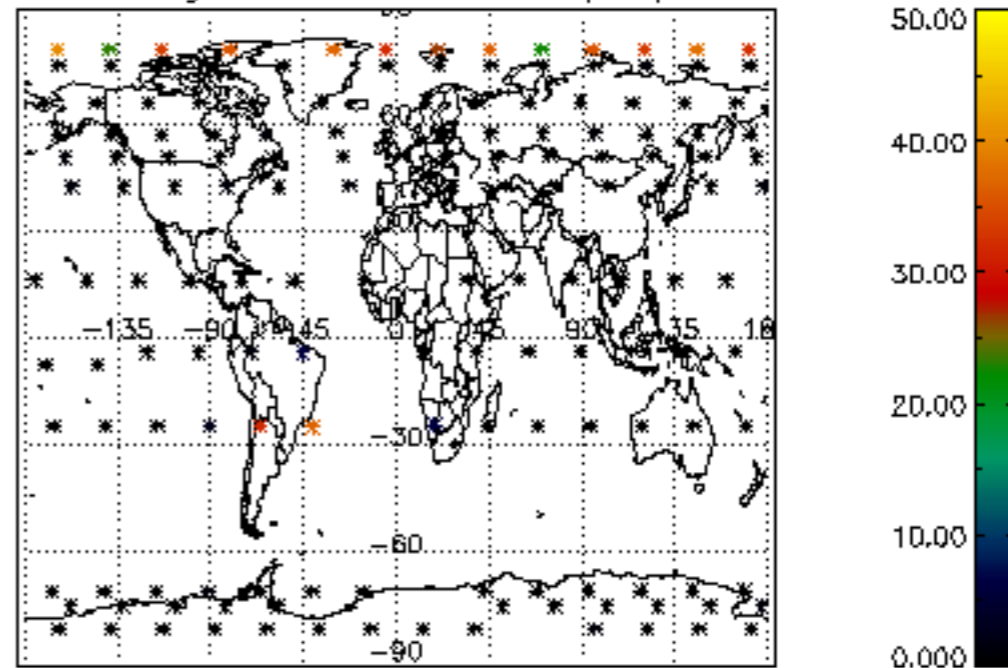
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

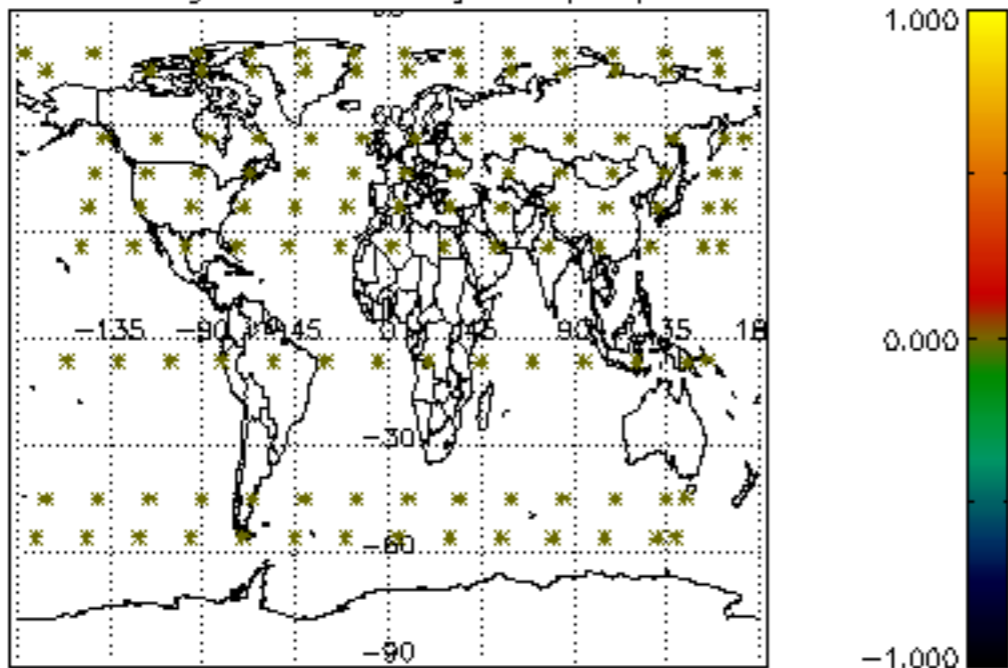


Percentage of saturation errors per profile

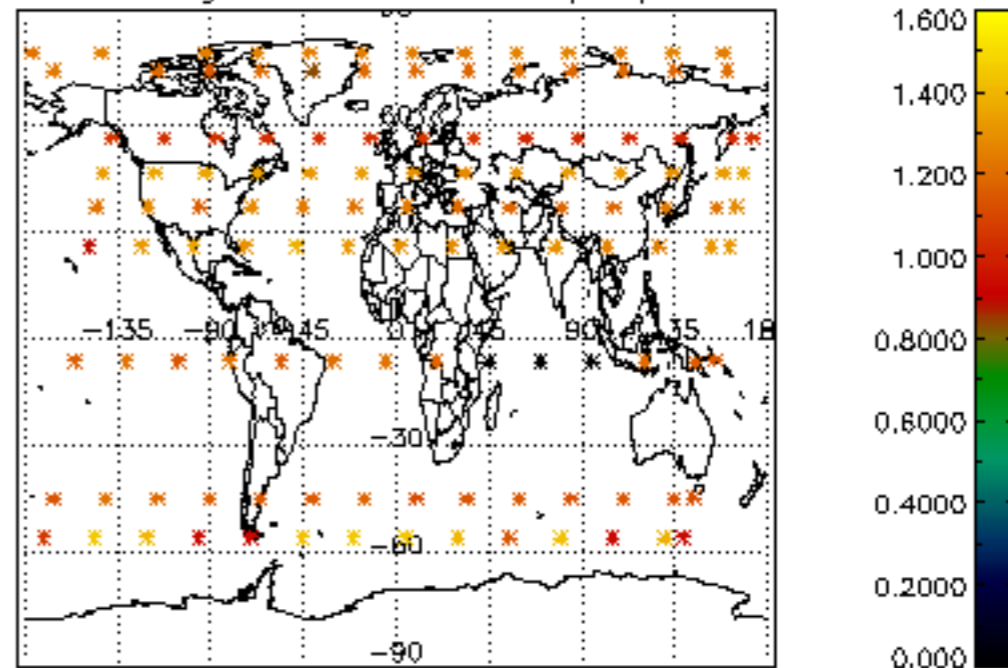




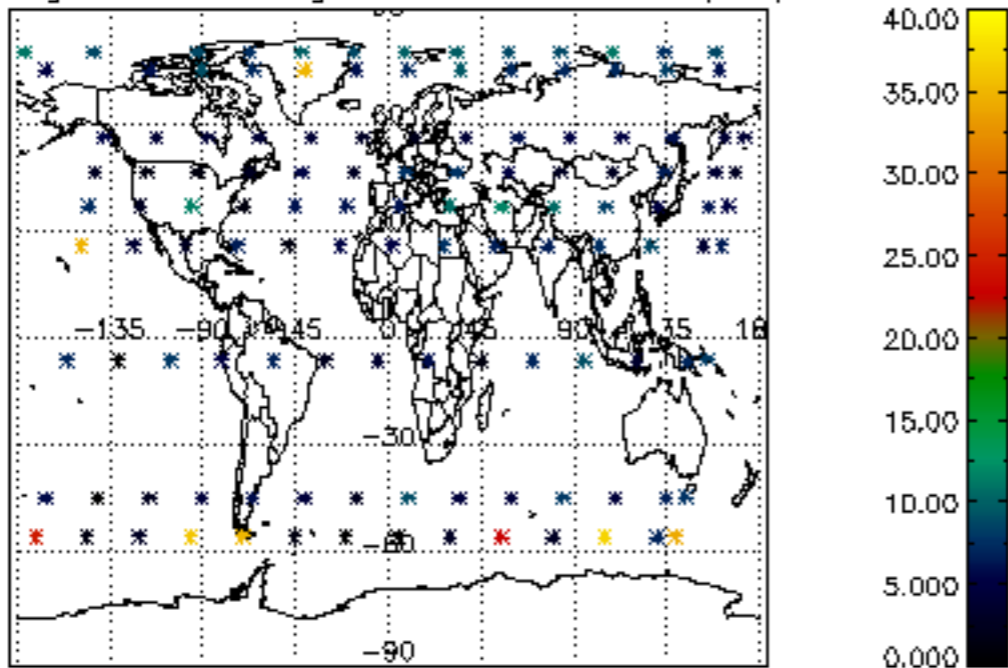
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

