

# 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	25APR2013 21:34:41
Data source version	GOMOS/6.01
Start time of products	31-10-2008 (31OCT2008 00:00:00)
Stop time of products	01-11-2008 (01NOV2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	168
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__2PRFIN20081031_000239_000000332073_00245_34868_8104.N1	31-OCT-2008 00:02:39	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	34868	No
2	GOM_NL__2PRFIN20081031_000627_000000372073_00245_34868_8105.N1	31-OCT-2008 00:06:27	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	34868	No
3	GOM_NL__2PRFIN20081031_001048_000000362073_00245_34868_8106.N1	31-OCT-2008 00:10:48	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	34868	No
4	GOM_NL__2PRFIN20081031_001221_000000342073_00245_34868_8107.N1	31-OCT-2008 00:12:21	Bright	34.000	32	77Eps UMa	1.7630	11000.	68	34868	No
5	GOM_NL__2PRFIN20081031_001604_000000382073_00245_34868_8108.N1	31-OCT-2008 00:16:04	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	34868	No
6	GOM_NL__2PRFIN20081031_002325_000000382073_00245_34868_8109.N1	31-OCT-2008 00:23:25	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	34868	No
7	GOM_NL__2PRFIN20081031_004315_000000402073_00245_34868_8110.N1	31-OCT-2008 00:43:15	Dark	39.500	113	Mu Vel	2.6920	5000.0	79	34868	No
8	GOM_NL__2PRFIN20081031_004542_000000442073_00245_34868_8111.N1	31-OCT-2008 00:45:42	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	34868	No
9	GOM_NL__2PRFIN20081031_004820_000000412073_00246_34869_8121.N1	31-OCT-2008 00:48:20	Dark	40.500	46	Del Vel	1.9540	10600.	81	34869	No
10	GOM_NL__2PRFIN20081031_004941_000000402073_00246_34869_8122.N1	31-OCT-2008 00:49:41	Dark	40.000	41	Eps Car	1.8600	4100.0	80	34869	No
11	GOM_NL__2PRFIN20081031_010509_000000402073_00246_34869_8123.N1	31-OCT-2008 01:05:09	Straylight	40.000	157	The1Eri	2.9060	9300.0	80	34869	No
12	GOM_NL__2PRFIN20081031_012406_000000392073_00246_34869_8124.N1	31-OCT-2008 01:24:06	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	34869	No
13	GOM_NL__2PRFIN20081031_012806_000000382073_00246_34869_8125.N1	31-OCT-2008 01:28:06	Bright	38.000	53	43Bet And	2.0480	3300.0	76	34869	No
14	GOM_NL__2PRFIN20081031_013035_000000412073_00246_34869_8126.N1	31-OCT-2008 01:30:35	Bright	40.500	73	57Gam1And	2.2600	13100.	81	34869	No
15	GOM_NL__2PRFIN20081031_013358_000000342073_00246_34869_8127.N1	31-OCT-2008 01:33:58	Bright	33.500	68	18Alp Cas	2.2250	4500.0	67	34869	No
16	GOM_NL__2PRFIN20081031_013510_000000342073_00246_34869_8128.N1	31-OCT-2008 01:35:10	Bright	34.000	76	27Gam Cas	2.3000	30000.	68	34869	No
17	GOM_NL__2PRFIN20081031_014314_000000342073_00246_34869_8129.N1	31-OCT-2008 01:43:14	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	34869	No
18	GOM_NL__2PRFIN20081031_014703_000000372073_00246_34869_8130.N1	31-OCT-2008 01:47:03	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	34869	No
19	GOM_NL__2PRFIN20081031_015124_000000402073_00246_34869_8131.N1	31-OCT-2008 01:51:24	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	34869	No
20	GOM_NL__2PRFIN20081031_015257_000000352073_00246_34869_8132.N1	31-OCT-2008 01:52:57	Bright	34.500	32	77Eps UMa	1.7630	11000.	69	34869	No
21	GOM_NL__2PRFIN20081031_015640_000000362073_00246_34869_8133.N1	31-OCT-2008 01:56:40	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	34869	No
22	GOM_NL__2PRFIN20081031_020402_000000392073_00246_34869_8134.N1	31-OCT-2008 02:04:02	Bright	39.000	96	68Del Leo	2.5600	9300.0	78	34869	No
23	GOM_NL__2PRFIN20081031_022351_000000392073_00246_34869_8135.N1	31-OCT-2008 02:23:51	Dark	39.000	113	Mu Vel	2.6920	5000.0	78	34869	No
24	GOM_NL__2PRFIN20081031_022619_000000482073_00246_34869_8136.N1	31-OCT-2008 02:26:19	Dark	48.000	65	Lam Vel	2.2040	4400.0	96	34869	No
25	GOM_NL__2PRFIN20081031_022856_000000402073_00247_34870_8137.N1	31-OCT-2008 02:28:56	Dark	40.000	46	Del Vel	1.9540	10600.	80	34870	No
26	GOM_NL__2PRFIN20081031_023018_000000422073_00247_34870_8138.N1	31-OCT-2008 02:30:18	Dark	42.000	41	Eps Car	1.8600	4100.0	84	34870	No
27	GOM_NL__2PRFIN20081031_024545_000000402073_00247_34870_8139.N1	31-OCT-2008 02:45:45	Straylight	40.000	157	The1Eri	2.9060	9300.0	80	34870	No
28	GOM_NL__2PRFIN20081031_030442_000000402073_00247_34870_8140.N1	31-OCT-2008 03:04:42	Bright	39.500	105	6Bet Ari	2.6450	8900.0	79	34870	No
29	GOM_NL__2PRFIN20081031_030842_000000372073_00247_34870_8141.N1	31-OCT-2008 03:08:42	Bright	36.500	53	43Bet And	2.0480	3300.0	73	34870	No
30	GOM_NL__2PRFIN20081031_031110_000000412073_00247_34870_8142.N1	31-OCT-2008 03:11:10	Bright	41.000	73	57Gam1And	2.2600	13100.	82	34870	No
31	GOM_NL__2PRFIN20081031_031434_000000362073_00247_34870_8143.N1	31-OCT-2008 03:14:34	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	34870	No
32	GOM_NL__2PRFIN20081031_031546_000000362073_00247_34870_8144.N1	31-OCT-2008 03:15:46	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	34870	No
33	GOM_NL__2PRFIN20081031_032350_000000342073_00247_34870_8145.N1	31-OCT-2008 03:23:50	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	34870	No
34	GOM_NL__2PRFIN20081031_032739_000000372073_00247_34870_8146.N1	31-OCT-2008 03:27:39	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	34870	No
35	GOM_NL__2PRFIN20081031_033200_000000402073_00247_34870_8147.N1	31-OCT-2008 03:32:00	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	34870	No
36	GOM_NL__2PRFIN20081031_033333_000000352073_00247_34870_8148.N1	31-OCT-2008 03:33:33	Bright	35.000	32	77Eps UMa	1.7630	11000.	70	34870	No
37	GOM_NL__2PRFIN20081031_033716_000000492073_00247_34870_8149.N1	31-OCT-2008 03:37:16	Bright	48.500	174	52Psi UMa	3.0040	4400.0	97	34870	No
38	GOM_NL__2PRFIN20081031_034438_000000382073_00247_34870_8150.N1	31-OCT-2008 03:44:38	Bright	38.000	96	68Del Leo	2.5600	9300.0	76	34870	No
39	GOM_NL__2PRFIN20081031_040428_000000402073_00247_34870_8151.N1	31-OCT-2008 04:04:28	Dark	39.500	113	Mu Vel	2.6920	5000.0	79	34870	No
40	GOM_NL__2PRFIN20081031_040656_000000542073_00247_34870_8152.N1	31-OCT-2008 04:06:56	Dark	54.000	65	Lam Vel	2.2040	4400.0	108	34870	No
41	GOM_NL__2PRFIN20081031_040933_000000422073_00248_34871_8150.N1	31-OCT-2008 04:09:33	Dark	41.500	46	Del Vel	1.9540	10600.	83	34871	No
42	GOM_NL__2PRFIN20081031_041054_000000402073_00248_34871_8151.N1	31-OCT-2008 04:10:54	Dark	40.000	41	Eps Car	1.8600	4100.0	80	34871	No



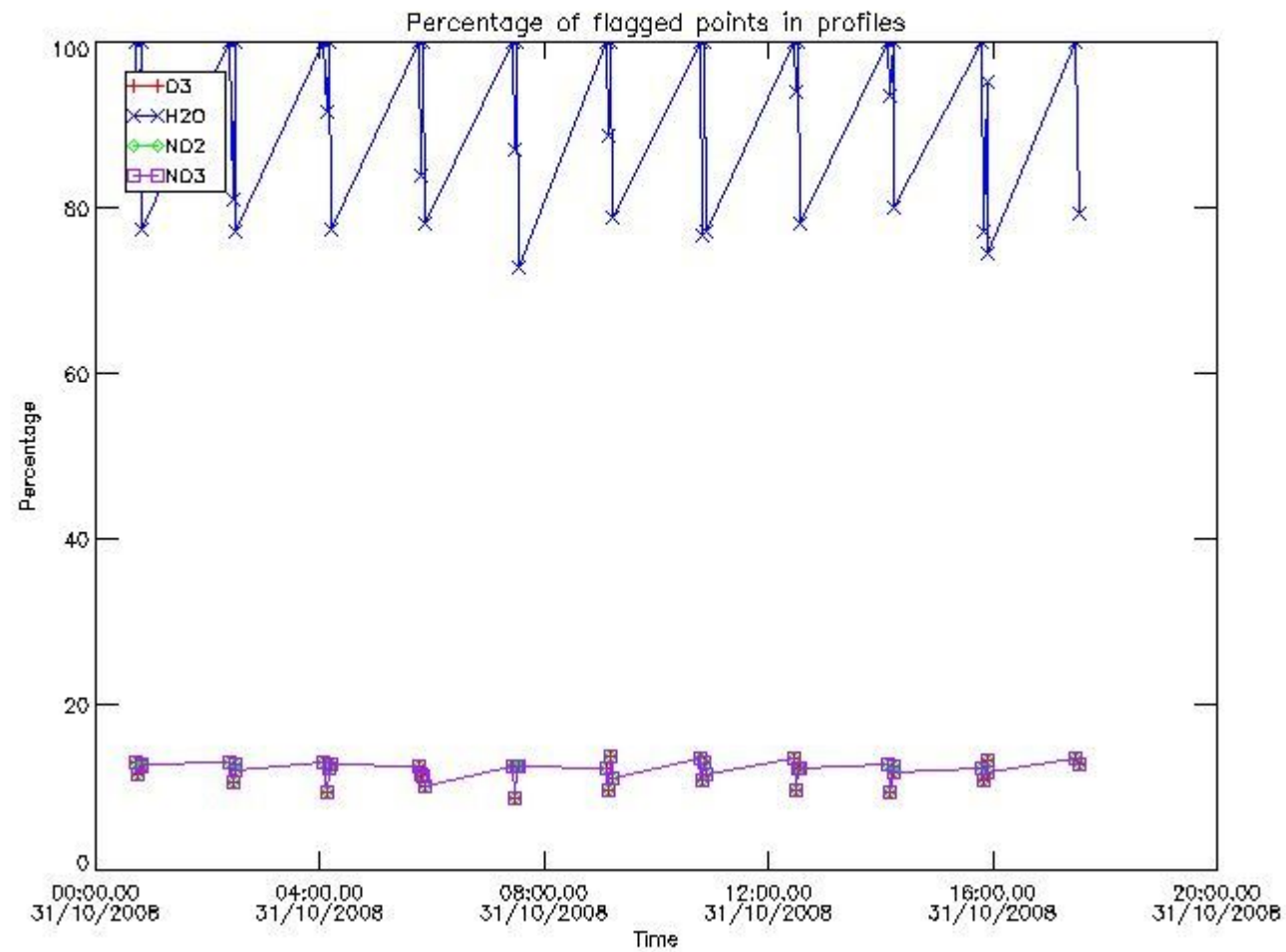


161	GOM_NL__2PRFIN20081031_164838_000000372073_00255_34878_8261.N1	31-OCT-2008 16:48:38	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	34878	No
162	GOM_NL__2PRFIN20081031_165228_000000362073_00255_34878_8262.N1	31-OCT-2008 16:52:28	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	34878	No
163	GOM_NL__2PRFIN20081031_165647_000000412073_00255_34878_8263.N1	31-OCT-2008 16:56:47	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	34878	No
164	GOM_NL__2PRFIN20081031_165821_000000352073_00255_34878_8264.N1	31-OCT-2008 16:58:21	Bright	35.000	32	77Eps UMa	1.7630	11000.	70	34878	No
165	GOM_NL__2PRFIN20081031_170204_000000532073_00255_34878_8265.N1	31-OCT-2008 17:02:04	Bright	53.000	174	52Psi UMa	3.0040	4400.0	106	34878	No
166	GOM_NL__2PRFIN20081031_170927_000000382073_00255_34878_8266.N1	31-OCT-2008 17:09:27	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	34878	No
167	GOM_NL__2PRFIN20081031_172918_000000382073_00255_34878_8267.N1	31-OCT-2008 17:29:18	Dark	37.500	113	Mu Vel	2.6920	5000.0	75	34878	No
168	GOM_NL__2PRFIN20081031_173150_000000442073_00255_34878_8268.N1	31-OCT-2008 17:31:50	Dark	43.500	65	Lam Vel	2.2040	4400.0	87	34878	No

### 3. Quality information per product

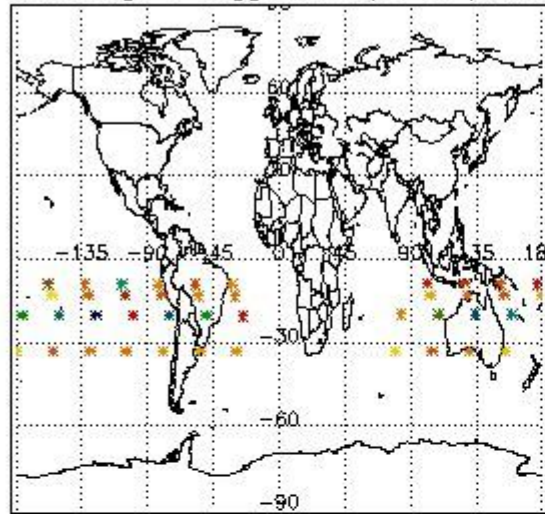
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

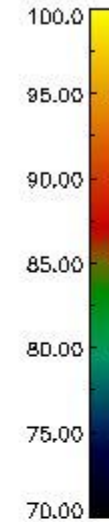
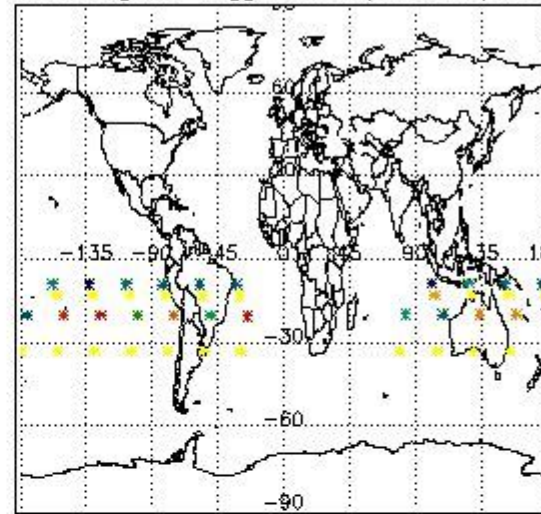


#### 3.2 Plot quality information per product (world map)

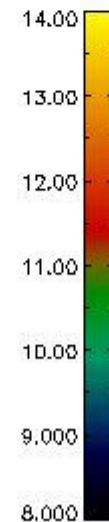
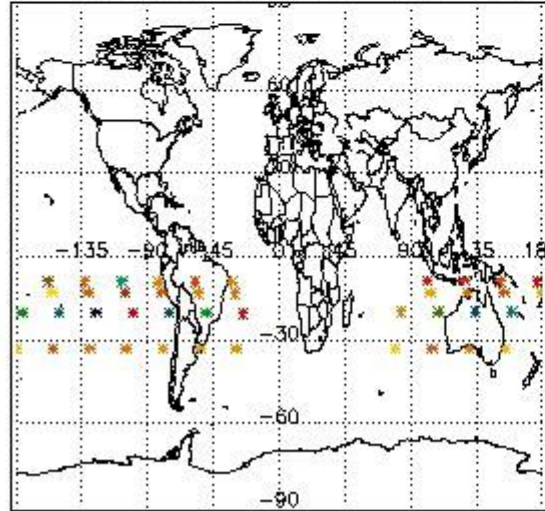
Percentage of flagged data per O3 profile



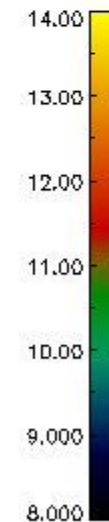
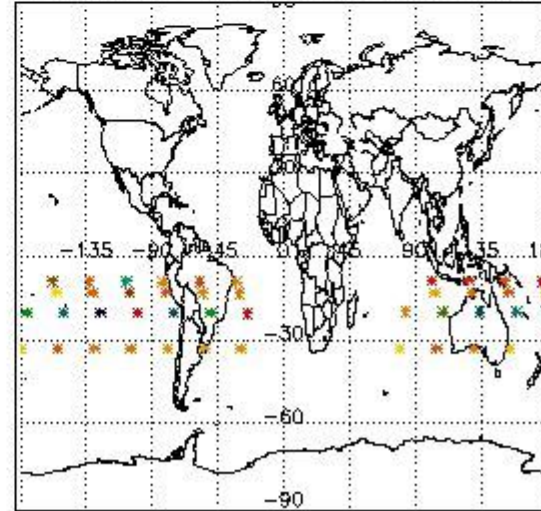
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

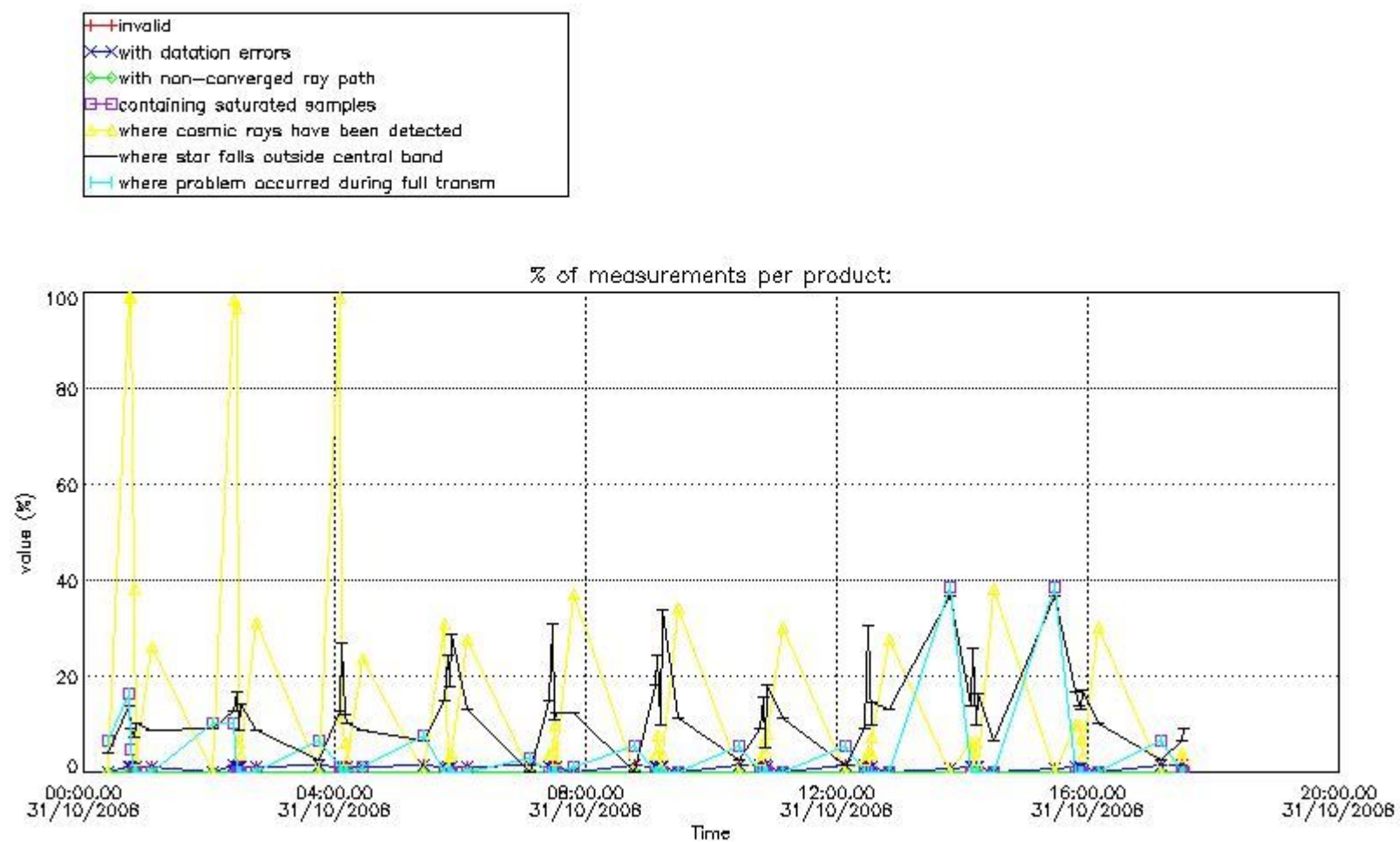


#### 4. Level 1 quality information per product

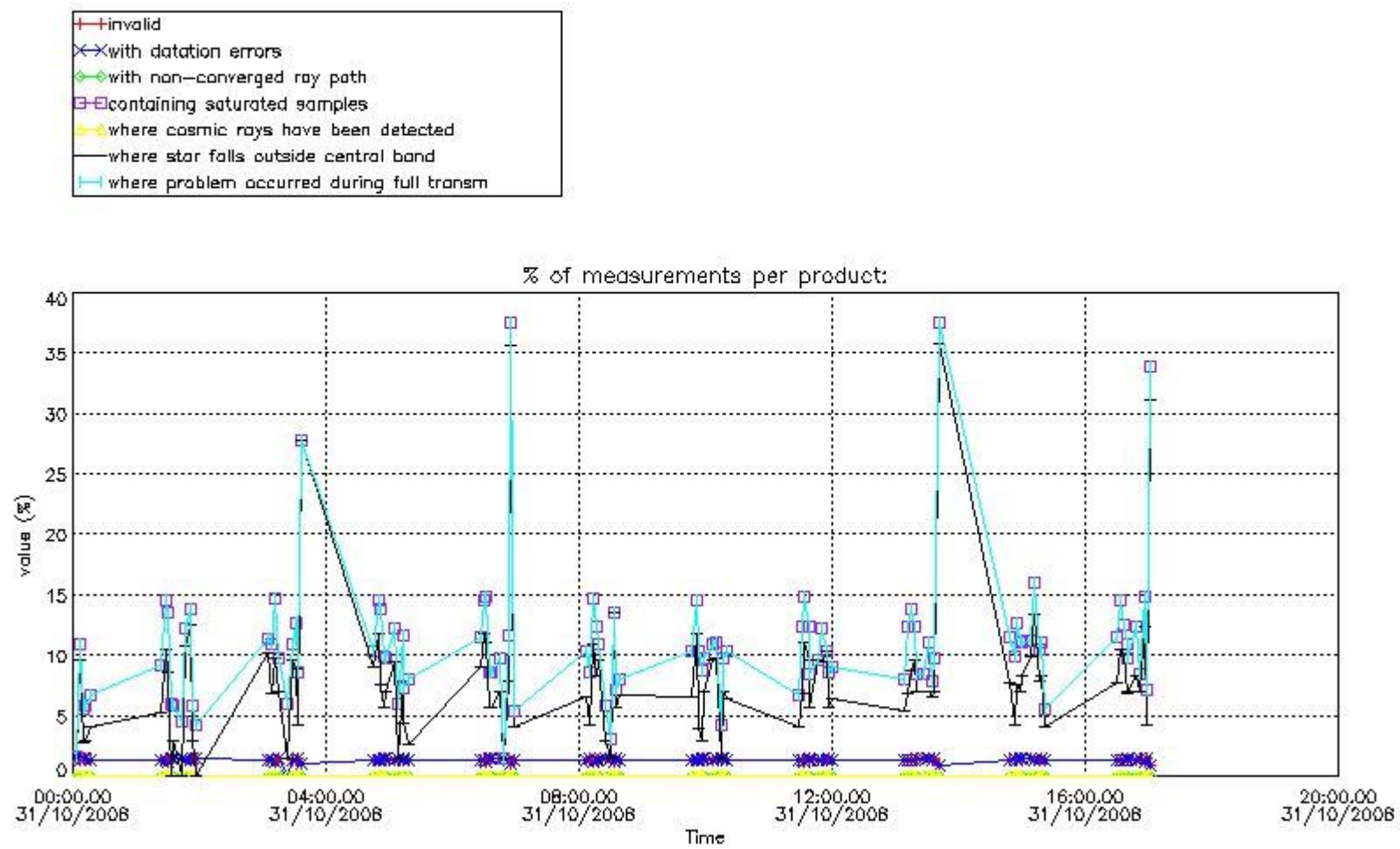
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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): ENVISAT DESCENDING passes

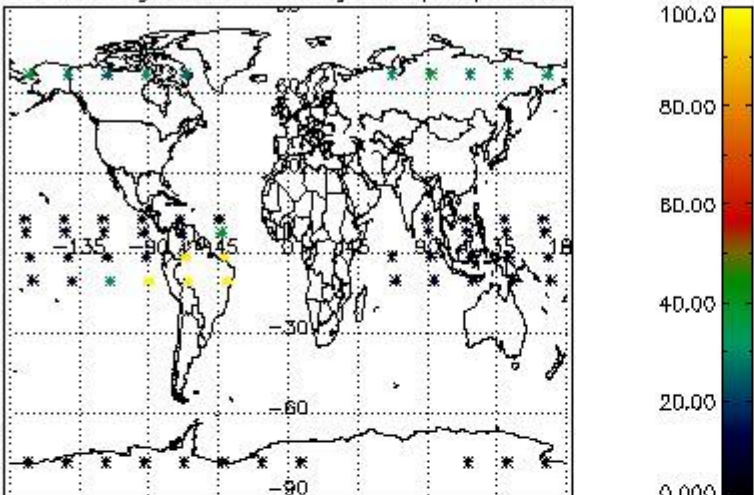


*4.2 Plot quality information per product coming from level 1b processing (world map)*

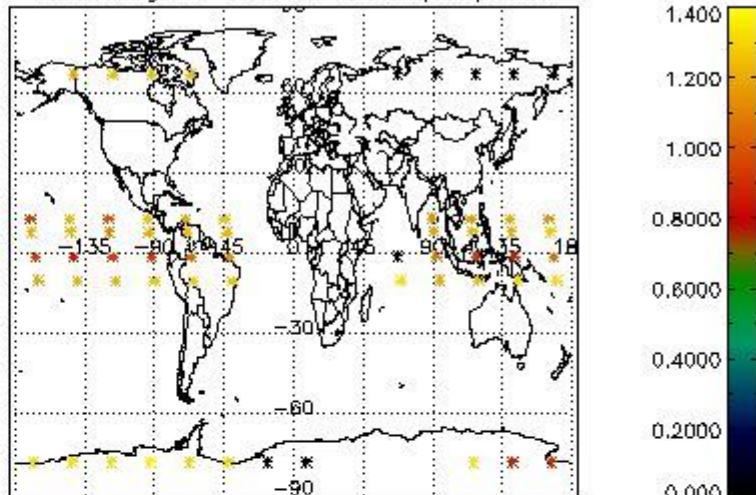
*4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes*



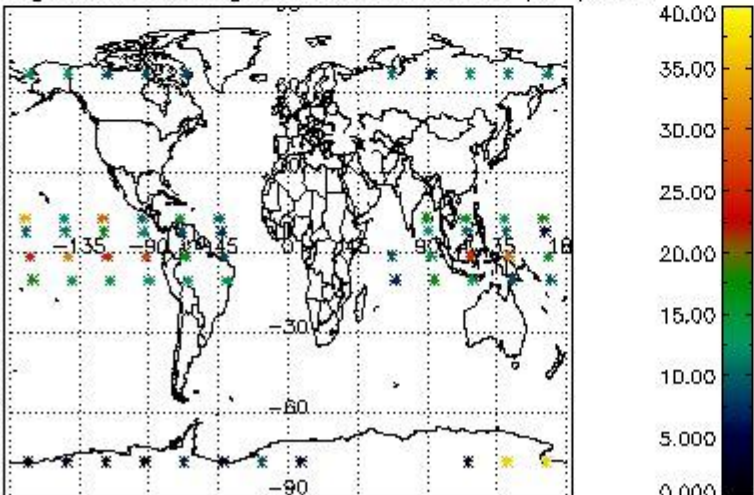
Percentage of cosmic ray hits per profile



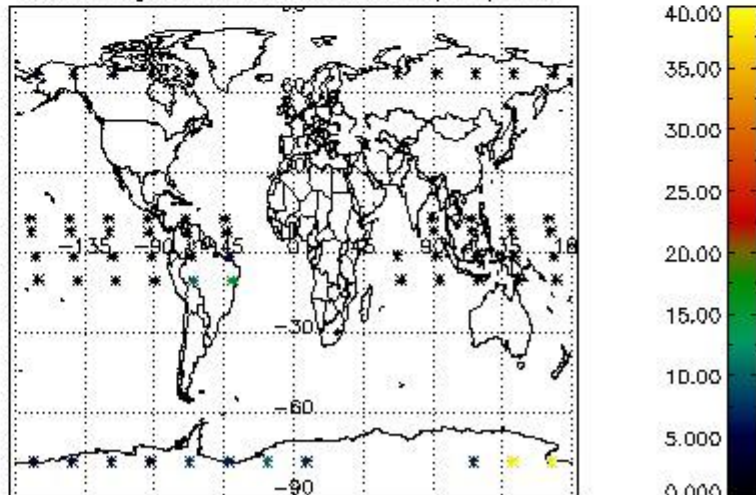
Percentage of datation errors per profile



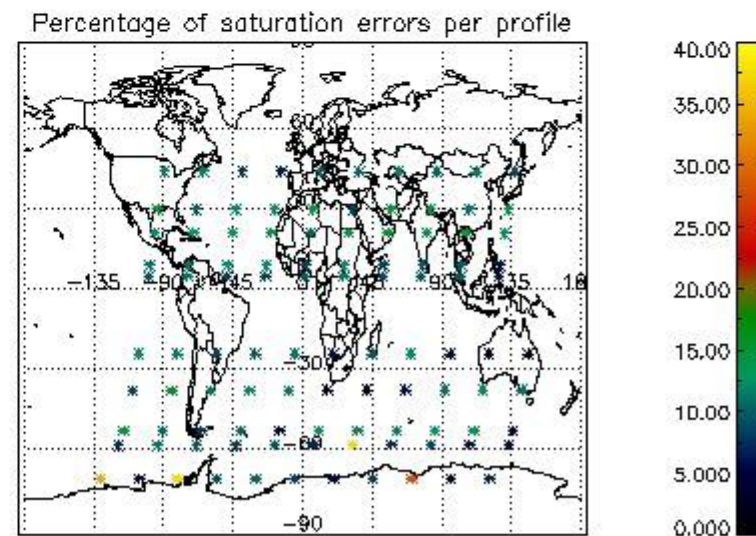
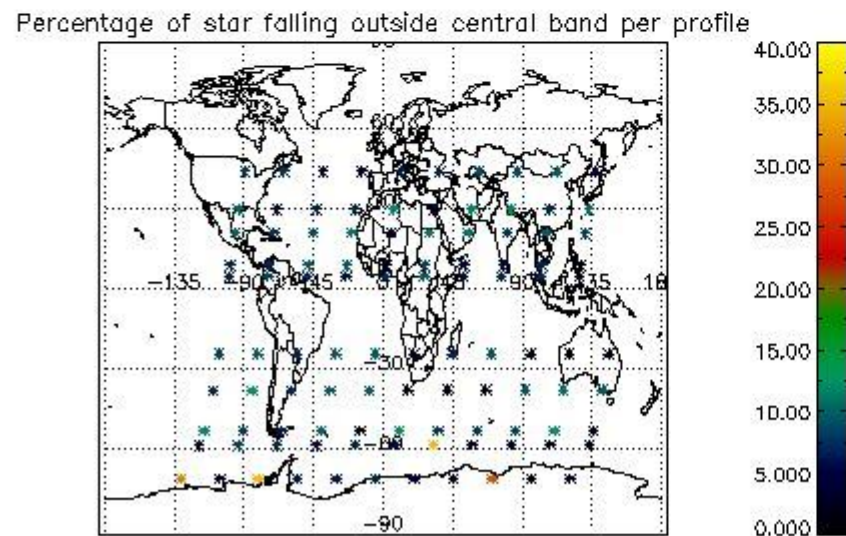
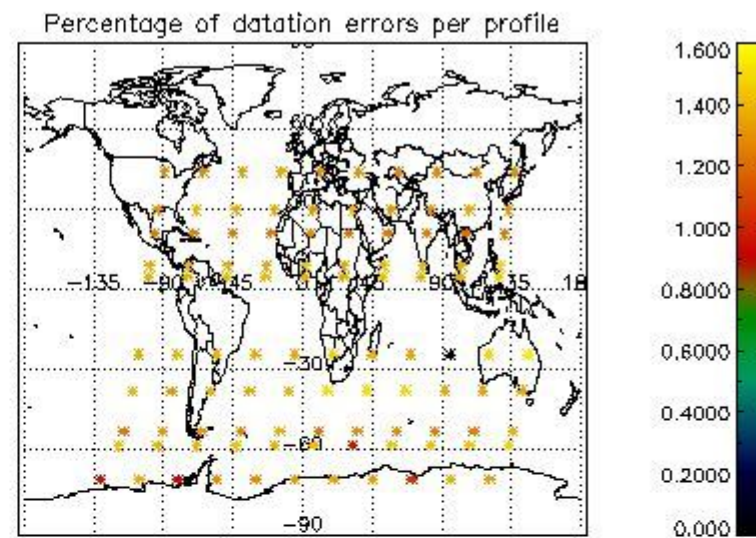
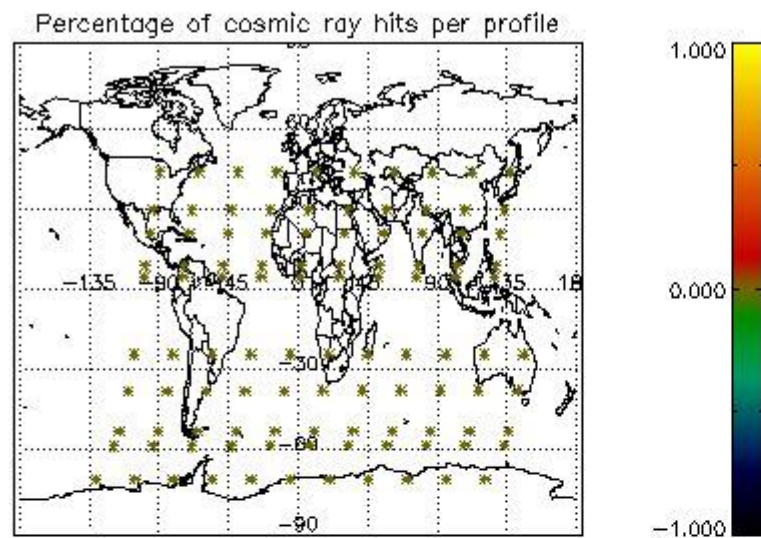
Percentage of star falling outside central band per profile



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

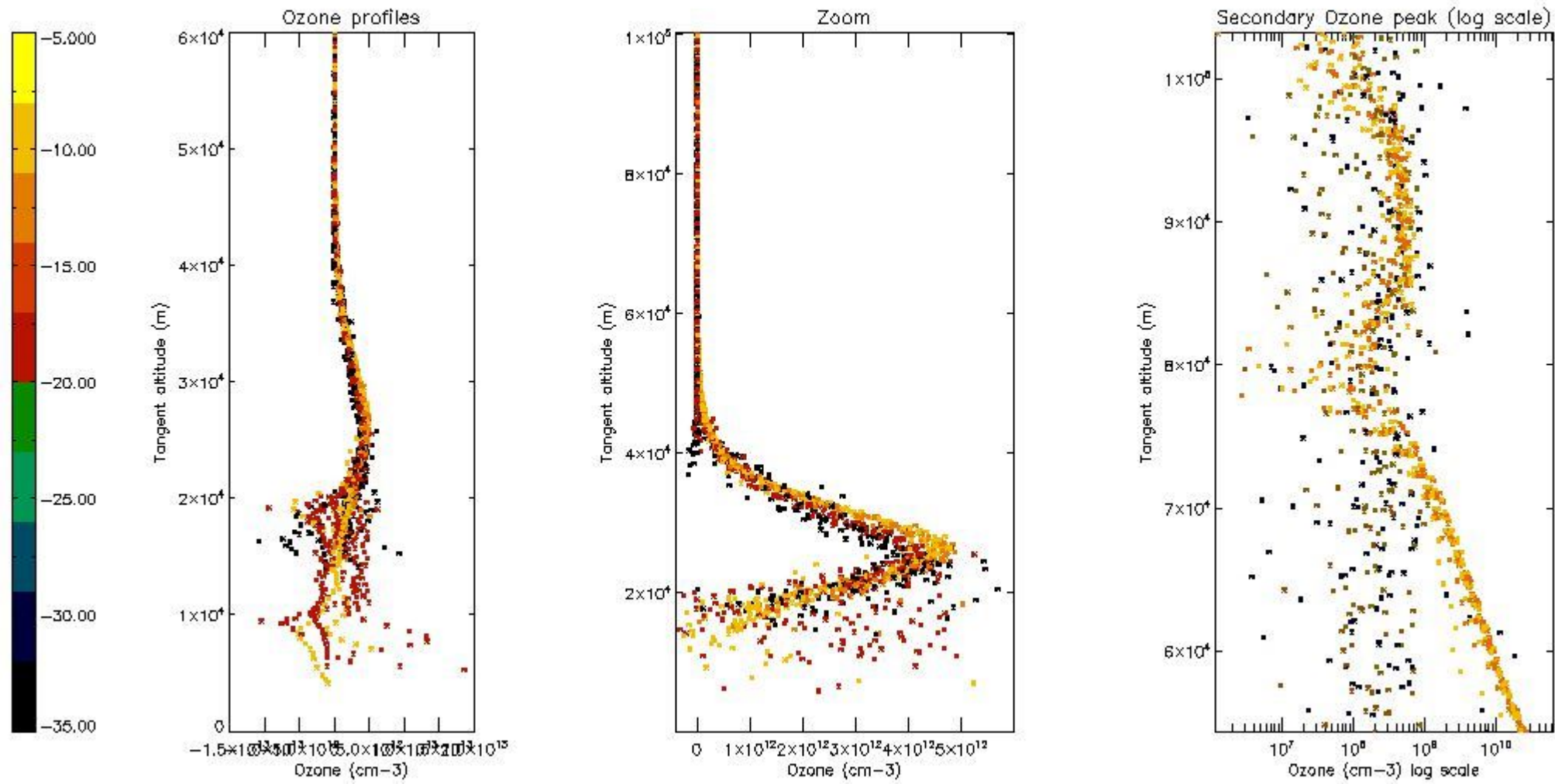
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	29
STD < 20	12

STD < 10	7
STD < 5	2

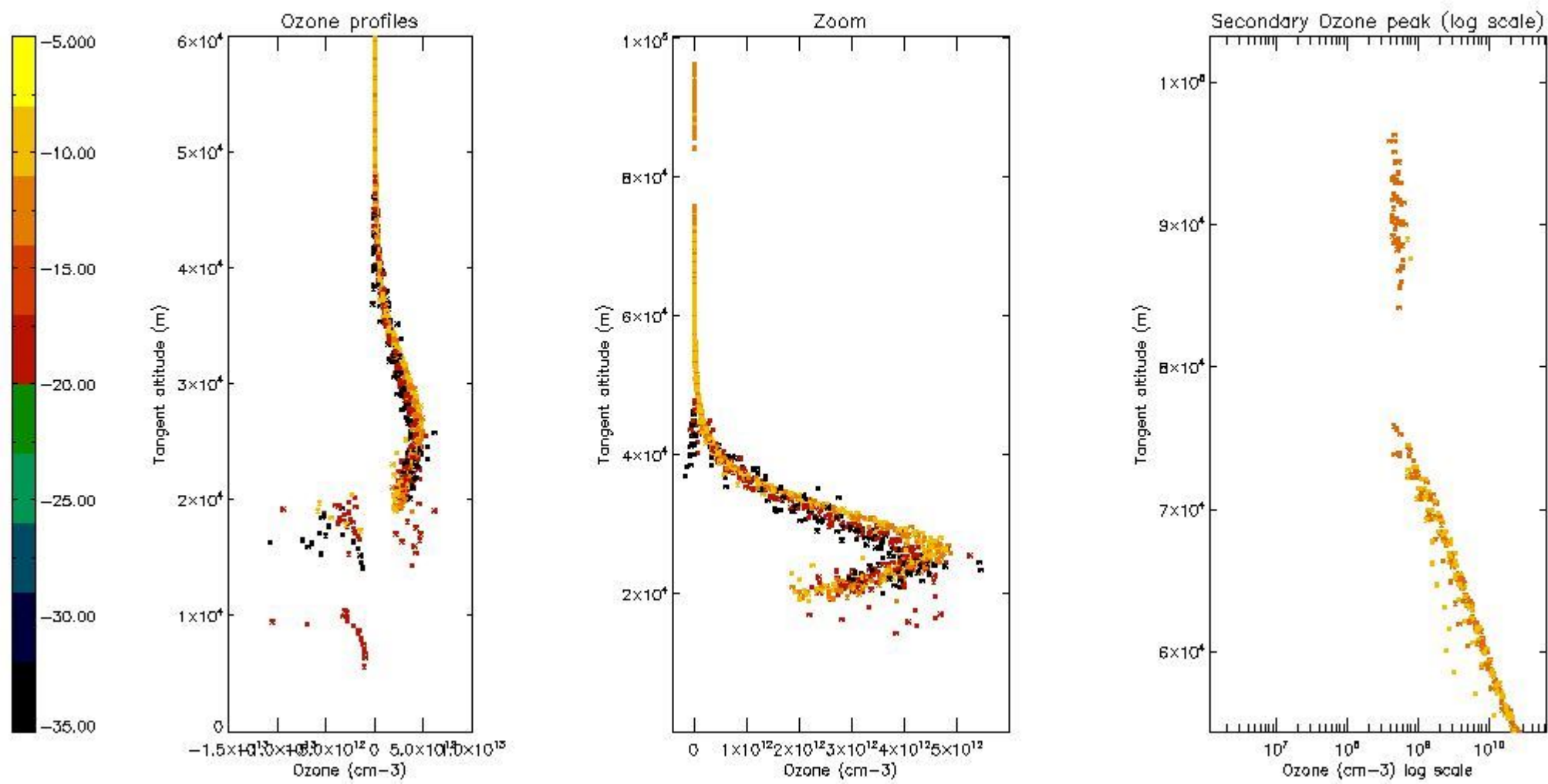
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



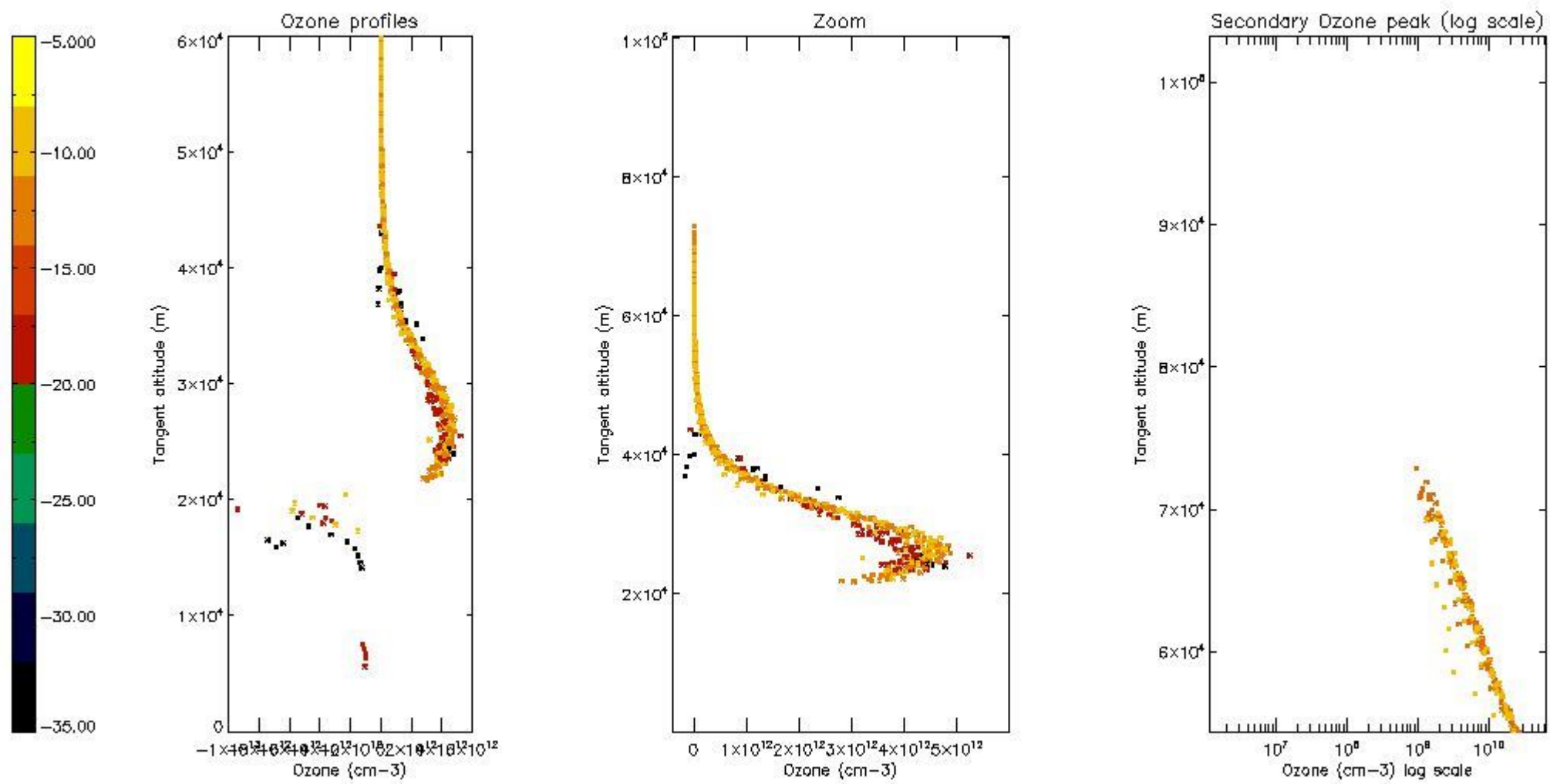
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



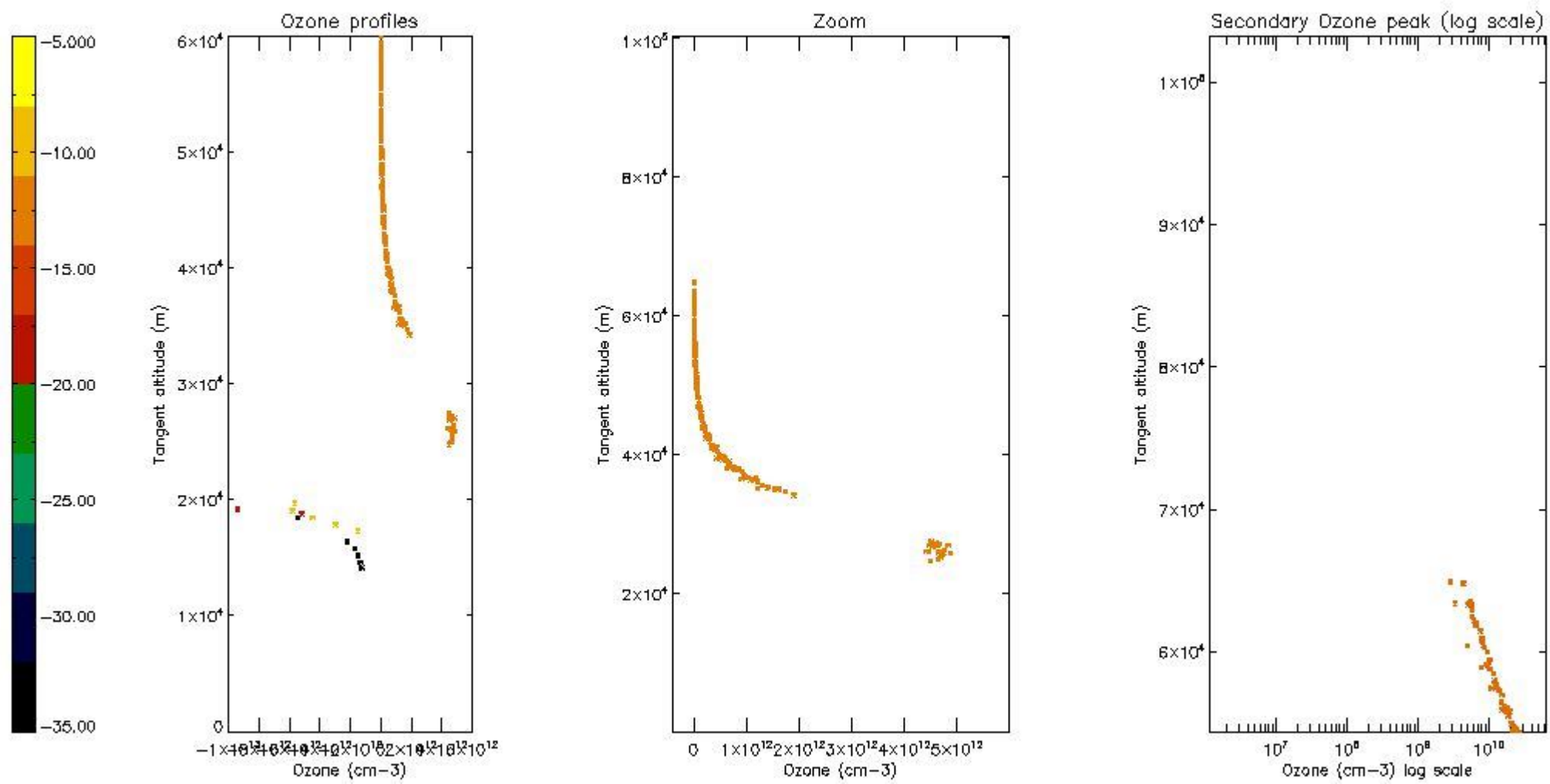
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



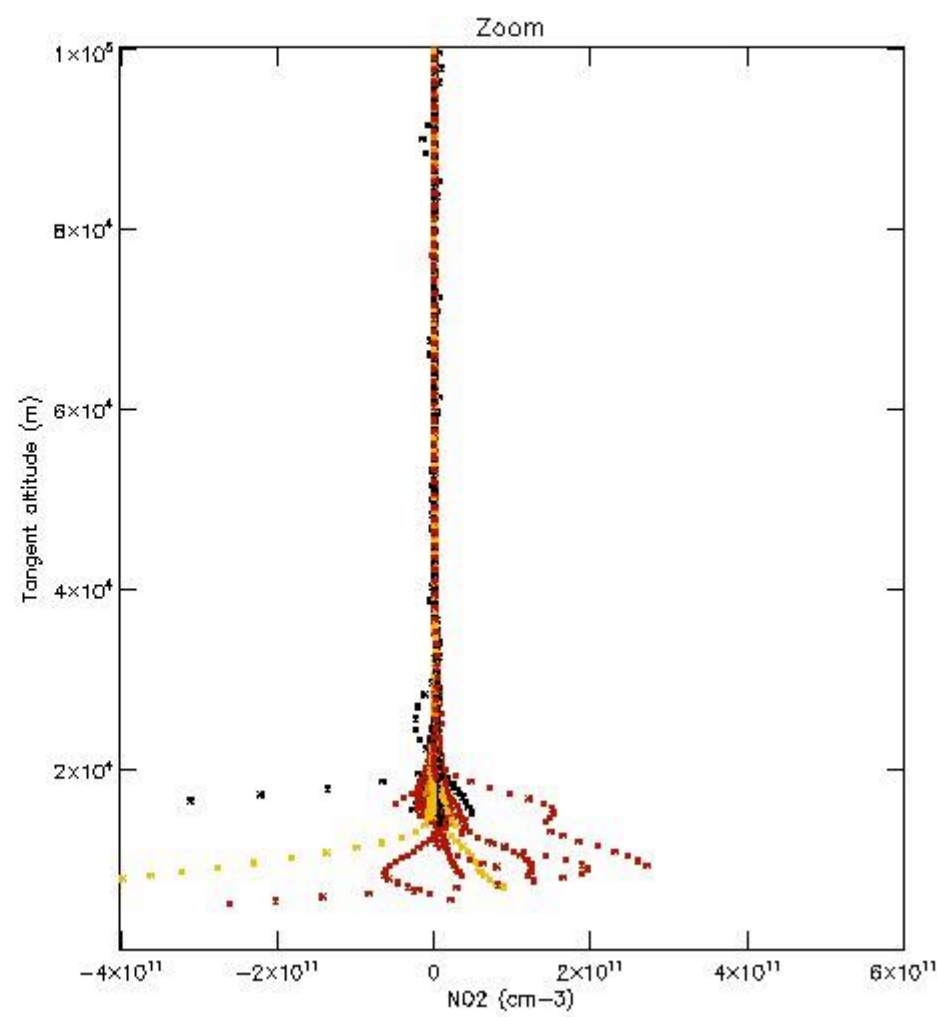
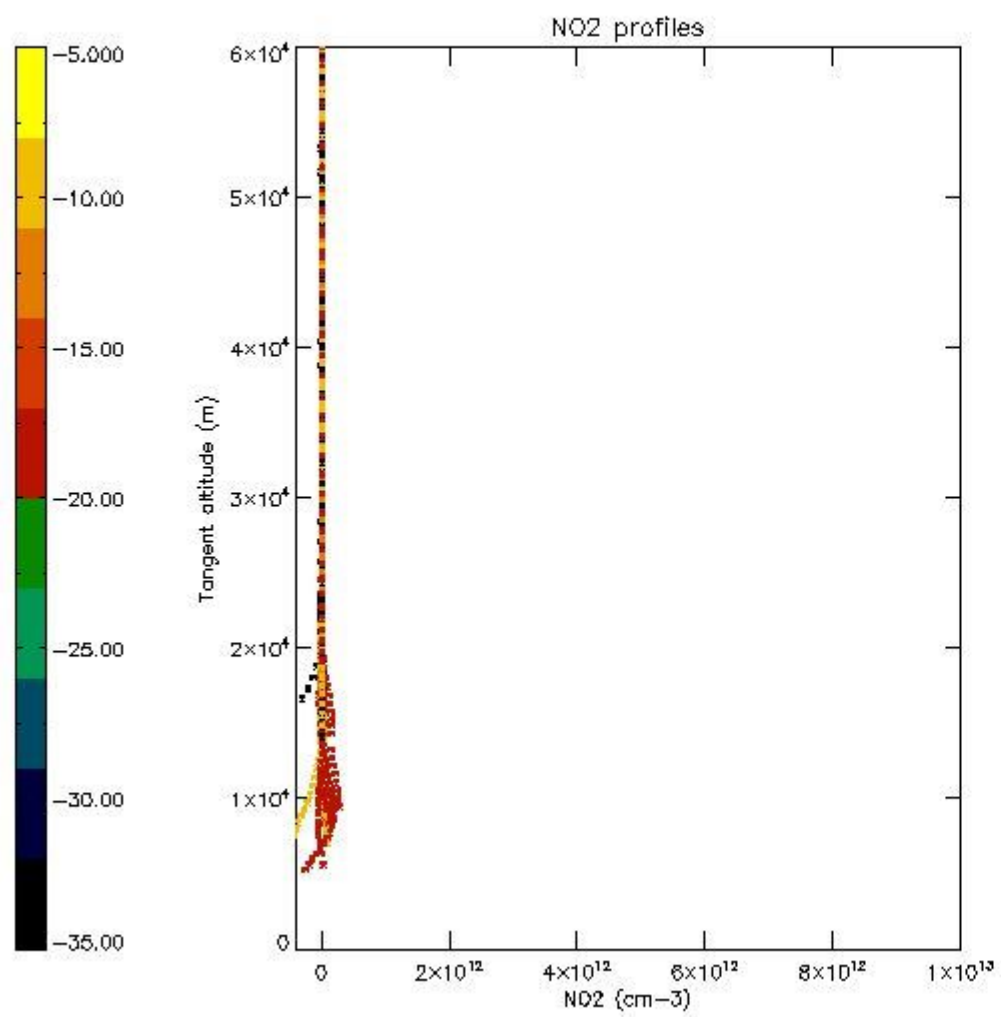
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



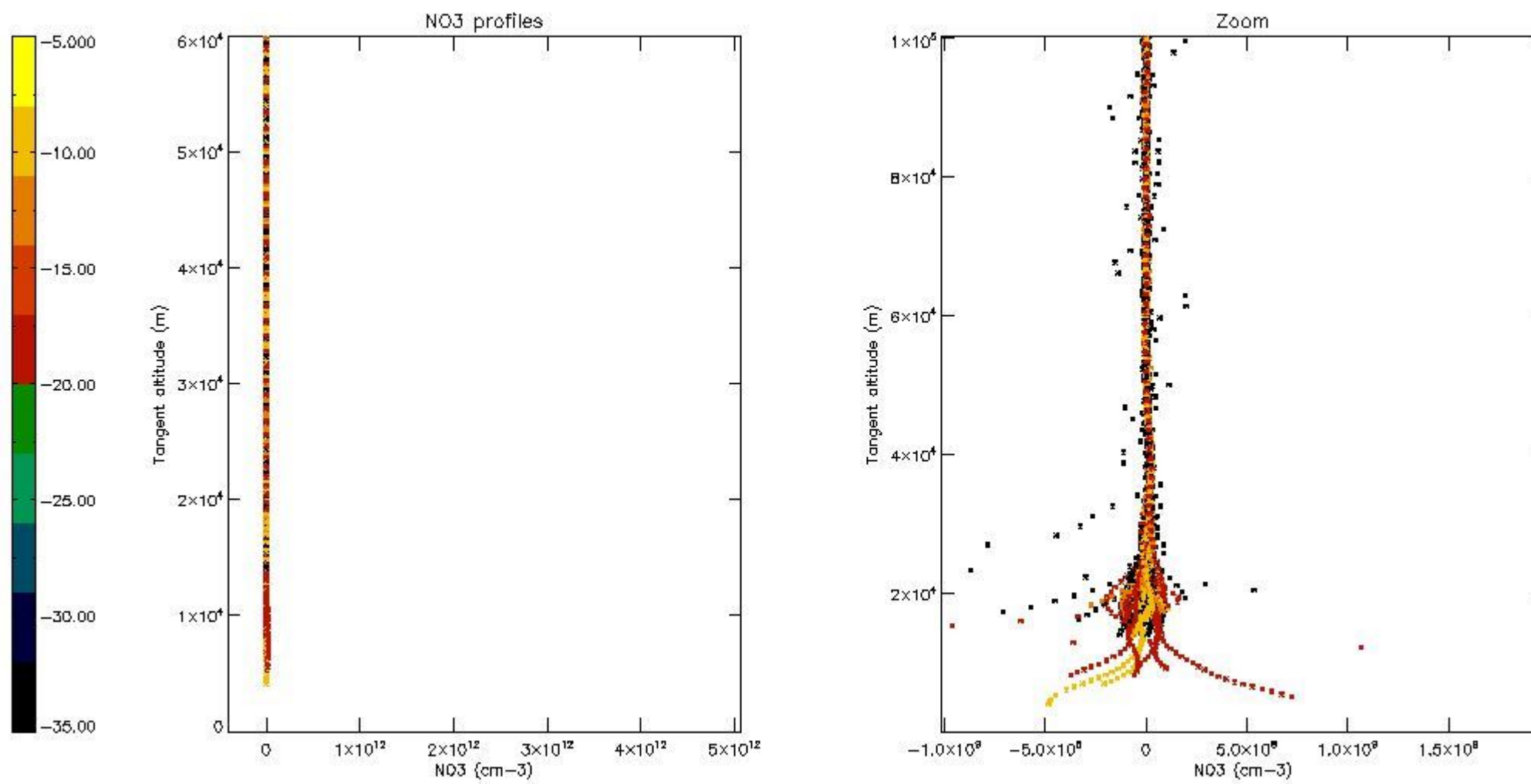
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

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	31-OCT-2008 00:02:39
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	31-OCT-2008 00:02:39
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	31-OCT-2008 00:02:39



# 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	25APR2013 21:34:41
Data source version	GOMOS/6.01
Start time of products	31-10-2008 (31OCT2008 00:00:00)
Stop time of products	01-11-2008 (01NOV2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	168
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__2PRFIN20081031_000239_000000332073_00245_34868_8104.N1	31-OCT-2008 00:02:39	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	34868	No
2	GOM_NL__2PRFIN20081031_000627_000000372073_00245_34868_8105.N1	31-OCT-2008 00:06:27	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	34868	No
3	GOM_NL__2PRFIN20081031_001048_000000362073_00245_34868_8106.N1	31-OCT-2008 00:10:48	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	34868	No
4	GOM_NL__2PRFIN20081031_001221_000000342073_00245_34868_8107.N1	31-OCT-2008 00:12:21	Bright	34.000	32	77Eps UMa	1.7630	11000.	68	34868	No
5	GOM_NL__2PRFIN20081031_001604_000000382073_00245_34868_8108.N1	31-OCT-2008 00:16:04	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	34868	No
6	GOM_NL__2PRFIN20081031_002325_000000382073_00245_34868_8109.N1	31-OCT-2008 00:23:25	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	34868	No
7	GOM_NL__2PRFIN20081031_004315_000000402073_00245_34868_8110.N1	31-OCT-2008 00:43:15	Dark	39.500	113	Mu Vel	2.6920	5000.0	79	34868	No
8	GOM_NL__2PRFIN20081031_004542_000000442073_00245_34868_8111.N1	31-OCT-2008 00:45:42	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	34868	No
9	GOM_NL__2PRFIN20081031_004820_000000412073_00246_34869_8121.N1	31-OCT-2008 00:48:20	Dark	40.500	46	Del Vel	1.9540	10600.	81	34869	No
10	GOM_NL__2PRFIN20081031_004941_000000402073_00246_34869_8122.N1	31-OCT-2008 00:49:41	Dark	40.000	41	Eps Car	1.8600	4100.0	80	34869	No
11	GOM_NL__2PRFIN20081031_010509_000000402073_00246_34869_8123.N1	31-OCT-2008 01:05:09	Straylight	40.000	157	The1Eri	2.9060	9300.0	80	34869	No
12	GOM_NL__2PRFIN20081031_012406_000000392073_00246_34869_8124.N1	31-OCT-2008 01:24:06	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	34869	No
13	GOM_NL__2PRFIN20081031_012806_000000382073_00246_34869_8125.N1	31-OCT-2008 01:28:06	Bright	38.000	53	43Bet And	2.0480	3300.0	76	34869	No
14	GOM_NL__2PRFIN20081031_013035_000000412073_00246_34869_8126.N1	31-OCT-2008 01:30:35	Bright	40.500	73	57Gam1And	2.2600	13100.	81	34869	No
15	GOM_NL__2PRFIN20081031_013358_000000342073_00246_34869_8127.N1	31-OCT-2008 01:33:58	Bright	33.500	68	18Alp Cas	2.2250	4500.0	67	34869	No
16	GOM_NL__2PRFIN20081031_013510_000000342073_00246_34869_8128.N1	31-OCT-2008 01:35:10	Bright	34.000	76	27Gam Cas	2.3000	30000.	68	34869	No
17	GOM_NL__2PRFIN20081031_014314_000000342073_00246_34869_8129.N1	31-OCT-2008 01:43:14	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	34869	No
18	GOM_NL__2PRFIN20081031_014703_000000372073_00246_34869_8130.N1	31-OCT-2008 01:47:03	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	34869	No
19	GOM_NL__2PRFIN20081031_015124_000000402073_00246_34869_8131.N1	31-OCT-2008 01:51:24	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	34869	No
20	GOM_NL__2PRFIN20081031_015257_000000352073_00246_34869_8132.N1	31-OCT-2008 01:52:57	Bright	34.500	32	77Eps UMa	1.7630	11000.	69	34869	No
21	GOM_NL__2PRFIN20081031_015640_000000362073_00246_34869_8133.N1	31-OCT-2008 01:56:40	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	34869	No
22	GOM_NL__2PRFIN20081031_020402_000000392073_00246_34869_8134.N1	31-OCT-2008 02:04:02	Bright	39.000	96	68Del Leo	2.5600	9300.0	78	34869	No
23	GOM_NL__2PRFIN20081031_022351_000000392073_00246_34869_8135.N1	31-OCT-2008 02:23:51	Dark	39.000	113	Mu Vel	2.6920	5000.0	78	34869	No
24	GOM_NL__2PRFIN20081031_022619_000000482073_00246_34869_8136.N1	31-OCT-2008 02:26:19	Dark	48.000	65	Lam Vel	2.2040	4400.0	96	34869	No
25	GOM_NL__2PRFIN20081031_022856_000000402073_00247_34870_8137.N1	31-OCT-2008 02:28:56	Dark	40.000	46	Del Vel	1.9540	10600.	80	34870	No
26	GOM_NL__2PRFIN20081031_023018_000000422073_00247_34870_8138.N1	31-OCT-2008 02:30:18	Dark	42.000	41	Eps Car	1.8600	4100.0	84	34870	No
27	GOM_NL__2PRFIN20081031_024545_000000402073_00247_34870_8139.N1	31-OCT-2008 02:45:45	Straylight	40.000	157	The1Eri	2.9060	9300.0	80	34870	No
28	GOM_NL__2PRFIN20081031_030442_000000402073_00247_34870_8140.N1	31-OCT-2008 03:04:42	Bright	39.500	105	6Bet Ari	2.6450	8900.0	79	34870	No
29	GOM_NL__2PRFIN20081031_030842_000000372073_00247_34870_8141.N1	31-OCT-2008 03:08:42	Bright	36.500	53	43Bet And	2.0480	3300.0	73	34870	No
30	GOM_NL__2PRFIN20081031_031110_000000412073_00247_34870_8142.N1	31-OCT-2008 03:11:10	Bright	41.000	73	57Gam1And	2.2600	13100.	82	34870	No
31	GOM_NL__2PRFIN20081031_031434_000000362073_00247_34870_8143.N1	31-OCT-2008 03:14:34	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	34870	No
32	GOM_NL__2PRFIN20081031_031546_000000362073_00247_34870_8144.N1	31-OCT-2008 03:15:46	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	34870	No
33	GOM_NL__2PRFIN20081031_032350_000000342073_00247_34870_8145.N1	31-OCT-2008 03:23:50	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	34870	No
34	GOM_NL__2PRFIN20081031_032739_000000372073_00247_34870_8146.N1	31-OCT-2008 03:27:39	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	34870	No
35	GOM_NL__2PRFIN20081031_033200_000000402073_00247_34870_8147.N1	31-OCT-2008 03:32:00	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	34870	No
36	GOM_NL__2PRFIN20081031_033333_000000352073_00247_34870_8148.N1	31-OCT-2008 03:33:33	Bright	35.000	32	77Eps UMa	1.7630	11000.	70	34870	No
37	GOM_NL__2PRFIN20081031_033716_000000492073_00247_34870_8149.N1	31-OCT-2008 03:37:16	Bright	48.500	174	52Psi UMa	3.0040	4400.0	97	34870	No
38	GOM_NL__2PRFIN20081031_034438_000000382073_00247_34870_8150.N1	31-OCT-2008 03:44:38	Bright	38.000	96	68Del Leo	2.5600	9300.0	76	34870	No
39	GOM_NL__2PRFIN20081031_040428_000000402073_00247_34870_8151.N1	31-OCT-2008 04:04:28	Dark	39.500	113	Mu Vel	2.6920	5000.0	79	34870	No
40	GOM_NL__2PRFIN20081031_040656_000000542073_00247_34870_8152.N1	31-OCT-2008 04:06:56	Dark	54.000	65	Lam Vel	2.2040	4400.0	108	34870	No
41	GOM_NL__2PRFIN20081031_040933_000000422073_00248_34871_8150.N1	31-OCT-2008 04:09:33	Dark	41.500	46	Del Vel	1.9540	10600.	83	34871	No
42	GOM_NL__2PRFIN20081031_041054_000000402073_00248_34871_8151.N1	31-OCT-2008 04:10:54	Dark	40.000	41	Eps Car	1.8600	4100.0	80	34871	No

43	GOM_NL__2PRFIN20081031_042621_000000402073_00248_34871_8152.N1	31-OCT-2008 04:26:21	Straylight	40.000	157	The1Eri	2.9060	9300.0	80	34871	No
44	GOM_NL__2PRFIN20081031_044518_000000392073_00248_34871_8153.N1	31-OCT-2008 04:45:18	Bright	39.000	105	6Bet Ari	2.6450	8900.0	78	34871	No
45	GOM_NL__2PRFIN20081031_044918_000000382073_00248_34871_8154.N1	31-OCT-2008 04:49:18	Bright	38.000	53	43Bet And	2.0480	3300.0	76	34871	No
46	GOM_NL__2PRFIN20081031_045146_000000402073_00248_34871_8155.N1	31-OCT-2008 04:51:46	Bright	40.000	73	57Gam1And	2.2600	13100.	80	34871	No
47	GOM_NL__2PRFIN20081031_045510_000000362073_00248_34871_8156.N1	31-OCT-2008 04:55:10	Bright	35.500	68	18Alp Cas	2.2250	4500.0	71	34871	No
48	GOM_NL__2PRFIN20081031_045622_000000362073_00248_34871_8157.N1	31-OCT-2008 04:56:22	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	34871	No
49	GOM_NL__2PRFIN20081031_050427_000000372073_00248_34871_8158.N1	31-OCT-2008 05:04:27	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	34871	No
50	GOM_NL__2PRFIN20081031_050815_000000342073_00248_34871_8159.N1	31-OCT-2008 05:08:15	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	34871	No
51	GOM_NL__2PRFIN20081031_051236_000000392073_00248_34871_8160.N1	31-OCT-2008 05:12:36	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	34871	No
52	GOM_NL__2PRFIN20081031_051409_000000352073_00248_34871_8161.N1	31-OCT-2008 05:14:09	Bright	34.500	32	77Eps UMa	1.7630	11000.	69	34871	No
53	GOM_NL__2PRFIN20081031_051752_000000382073_00248_34871_8162.N1	31-OCT-2008 05:17:52	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	34871	No
54	GOM_NL__2PRFIN20081031_052514_000000392073_00248_34871_8163.N1	31-OCT-2008 05:25:14	Bright	38.500	96	68Del Leo	2.5600	9300.0	77	34871	No
55	GOM_NL__2PRFIN20081031_054504_000000412073_00248_34871_8164.N1	31-OCT-2008 05:45:04	Dark	40.500	113	Mu Vel	2.6920	5000.0	81	34871	No
56	GOM_NL__2PRFIN20081031_054733_000000532073_00248_34871_8165.N1	31-OCT-2008 05:47:33	Dark	53.000	65	Lam Vel	2.2040	4400.0	106	34871	No
57	GOM_NL__2PRFIN20081031_055010_000000452073_00249_34872_8163.N1	31-OCT-2008 05:50:10	Dark	45.000	46	Del Vel	1.9540	10600.	90	34872	No
58	GOM_NL__2PRFIN20081031_055131_000000512073_00249_34872_8164.N1	31-OCT-2008 05:51:31	Dark	50.500	41	Eps Car	1.8600	4100.0	101	34872	No
59	GOM_NL__2PRFIN20081031_060658_000000422073_00249_34872_8165.N1	31-OCT-2008 06:06:58	Straylight	41.500	157	The1Eri	2.9060	9300.0	83	34872	No
60	GOM_NL__2PRFIN20081031_062554_000000392073_00249_34872_8166.N1	31-OCT-2008 06:25:54	Bright	39.000	105	6Bet Ari	2.6450	8900.0	78	34872	No
61	GOM_NL__2PRFIN20081031_062954_000000382073_00249_34872_8167.N1	31-OCT-2008 06:29:54	Bright	38.000	53	43Bet And	2.0480	3300.0	76	34872	No
62	GOM_NL__2PRFIN20081031_063222_000000412073_00249_34872_8168.N1	31-OCT-2008 06:32:22	Bright	40.500	73	57Gam1And	2.2600	13100.	81	34872	No
63	GOM_NL__2PRFIN20081031_063546_000000352073_00249_34872_8169.N1	31-OCT-2008 06:35:46	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	34872	No
64	GOM_NL__2PRFIN20081031_063658_000000352073_00249_34872_8170.N1	31-OCT-2008 06:36:58	Bright	35.000	76	27Gam Cas	2.3000	30000.	70	34872	No
65	GOM_NL__2PRFIN20081031_064503_000000362073_00249_34872_8171.N1	31-OCT-2008 06:45:03	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	34872	No
66	GOM_NL__2PRFIN20081031_064851_000000332073_00249_34872_8172.N1	31-OCT-2008 06:48:51	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	34872	No
67	GOM_NL__2PRFIN20081031_065312_000000392073_00249_34872_8173.N1	31-OCT-2008 06:53:12	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	34872	No
68	GOM_NL__2PRFIN20081031_065445_000000522073_00249_34872_8174.N1	31-OCT-2008 06:54:45	Bright	52.000	32	77Eps UMa	1.7630	11000.	104	34872	No
69	GOM_NL__2PRFIN20081031_065828_000000372073_00249_34872_8175.N1	31-OCT-2008 06:58:28	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	34872	No
70	GOM_NL__2PRFIN20081031_070550_000000372073_00249_34872_8176.N1	31-OCT-2008 07:05:50	Bright	36.500	96	68Del Leo	2.5600	9300.0	73	34872	No
71	GOM_NL__2PRFIN20081031_072540_000000412073_00249_34872_8177.N1	31-OCT-2008 07:25:40	Dark	40.500	113	Mu Vel	2.6920	5000.0	81	34872	No
72	GOM_NL__2PRFIN20081031_072810_000000582073_00249_34872_8178.N1	31-OCT-2008 07:28:10	Dark	58.000	65	Lam Vel	2.2040	4400.0	116	34872	No
73	GOM_NL__2PRFIN20081031_073046_000000412073_00250_34873_8180.N1	31-OCT-2008 07:30:46	Dark	41.000	46	Del Vel	1.9540	10600.	82	34873	No
74	GOM_NL__2PRFIN20081031_073208_000000412073_00250_34873_8181.N1	31-OCT-2008 07:32:08	Dark	41.000	41	Eps Car	1.8600	4100.0	82	34873	No
75	GOM_NL__2PRFIN20081031_074734_000000412073_00250_34873_8182.N1	31-OCT-2008 07:47:34	Straylight	40.500	157	The1Eri	2.9060	9300.0	81	34873	No
76	GOM_NL__2PRFIN20081031_080629_000000392073_00250_34873_8183.N1	31-OCT-2008 08:06:29	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	34873	No
77	GOM_NL__2PRFIN20081031_081030_000000352073_00250_34873_8184.N1	31-OCT-2008 08:10:30	Bright	35.000	53	43Bet And	2.0480	3300.0	70	34873	No
78	GOM_NL__2PRFIN20081031_081258_000000412073_00250_34873_8185.N1	31-OCT-2008 08:12:58	Bright	41.000	73	57Gam1And	2.2600	13100.	82	34873	No
79	GOM_NL__2PRFIN20081031_081622_000000372073_00250_34873_8186.N1	31-OCT-2008 08:16:22	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	34873	No
80	GOM_NL__2PRFIN20081031_081734_000000372073_00250_34873_8187.N1	31-OCT-2008 08:17:34	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	34873	No
81	GOM_NL__2PRFIN20081031_082538_000000342073_00250_34873_8188.N1	31-OCT-2008 08:25:38	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	34873	No
82	GOM_NL__2PRFIN20081031_082927_000000332073_00250_34873_8189.N1	31-OCT-2008 08:29:27	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	34873	No
83	GOM_NL__2PRFIN20081031_083348_000000412073_00250_34873_8190.N1	31-OCT-2008 08:33:48	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	34873	No
84	GOM_NL__2PRFIN20081031_083521_000000352073_00250_34873_8191.N1	31-OCT-2008 08:35:21	Bright	35.000	32	77Eps UMa	1.7630	11000.	70	34873	No
85	GOM_NL__2PRFIN20081031_083904_000000382073_00250_34873_8192.N1	31-OCT-2008 08:39:04	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	34873	No
86	GOM_NL__2PRFIN20081031_084626_000000382073_00250_34873_8193.N1	31-OCT-2008 08:46:26	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	34873	No
87	GOM_NL__2PRFIN20081031_090617_000000422073_00250_34873_8194.N1	31-OCT-2008 09:06:17	Dark	41.500	113	Mu Vel	2.6920	5000.0	83	34873	No
88	GOM_NL__2PRFIN20081031_090847_000000532073_00250_34873_8195.N1	31-OCT-2008 09:08:47	Dark	53.000	65	Lam Vel	2.2040	4400.0	106	34873	No
89	GOM_NL__2PRFIN20081031_091123_000000412073_00251_34874_8193.N1	31-OCT-2008 09:11:23	Dark	41.000	46	Del Vel	1.9540	10600.	82	34874	No
90	GOM_NL__2PRFIN20081031_091244_000000552073_00251_34874_8194.N1	31-OCT-2008 09:12:44	Dark	54.500	41	Eps Car	1.8600	4100.0	109	34874	No
91	GOM_NL__2PRFIN20081031_092810_000000402073_00251_34874_8195.N1	31-OCT-2008 09:28:10	Straylight	39.500	157	The1Eri	2.9060	9300.0	79	34874	No
92	GOM_NL__2PRFIN20081031_094705_000000392073_00251_34874_8196.N1	31-OCT-2008 09:47:05	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	34874	No
93	GOM_NL__2PRFIN20081031_095105_000000382073_00251_34874_8197.N1	31-OCT-2008 09:51:05	Bright	38.000	53	43Bet And	2.0480	3300.0	76	34874	No
94	GOM_NL__2PRFIN20081031_095333_000000392073_00251_34874_8198.N1	31-OCT-2008 09:53:33	Bright	38.500	73	57Gam1And	2.2600	13100.	77	34874	No
95	GOM_NL__2PRFIN20081031_095658_000000352073_00251_34874_8199.N1	31-OCT-2008 09:56:58	Bright	34.500	68	18Alp Cas	2.2250	4500.0	69	34874	No
96	GOM_NL__2PRFIN20081031_095810_000000362073_00251_34874_8200.N1	31-OCT-2008 09:58:10	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	34874	No
97	GOM_NL__2PRFIN20081031_100614_000000372073_00251_34874_8201.N1	31-OCT-2008 10:06:14	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	34874	No
98	GOM_NL__2PRFIN20081031_101003_000000362073_00251_34874_8202.N1	31-OCT-2008 10:10:03	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	34874	No
99	GOM_NL__2PRFIN20081031_101423_000000362073_00251_34874_8203.N1	31-OCT-2008 10:14:23	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	34874	No
100	GOM_NL__2PRFIN20081031_101557_000000362073_00251_34874_8204.N1	31-OCT-2008 10:15:57	Bright	36.000	32	77Eps UMa	1.7630	11000.	72	34874	No
101	GOM_NL__2PRFIN20081031_101940_000000392073_00251_34874_8205.N1	31-OCT-2008 10:19:40	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	34874	No

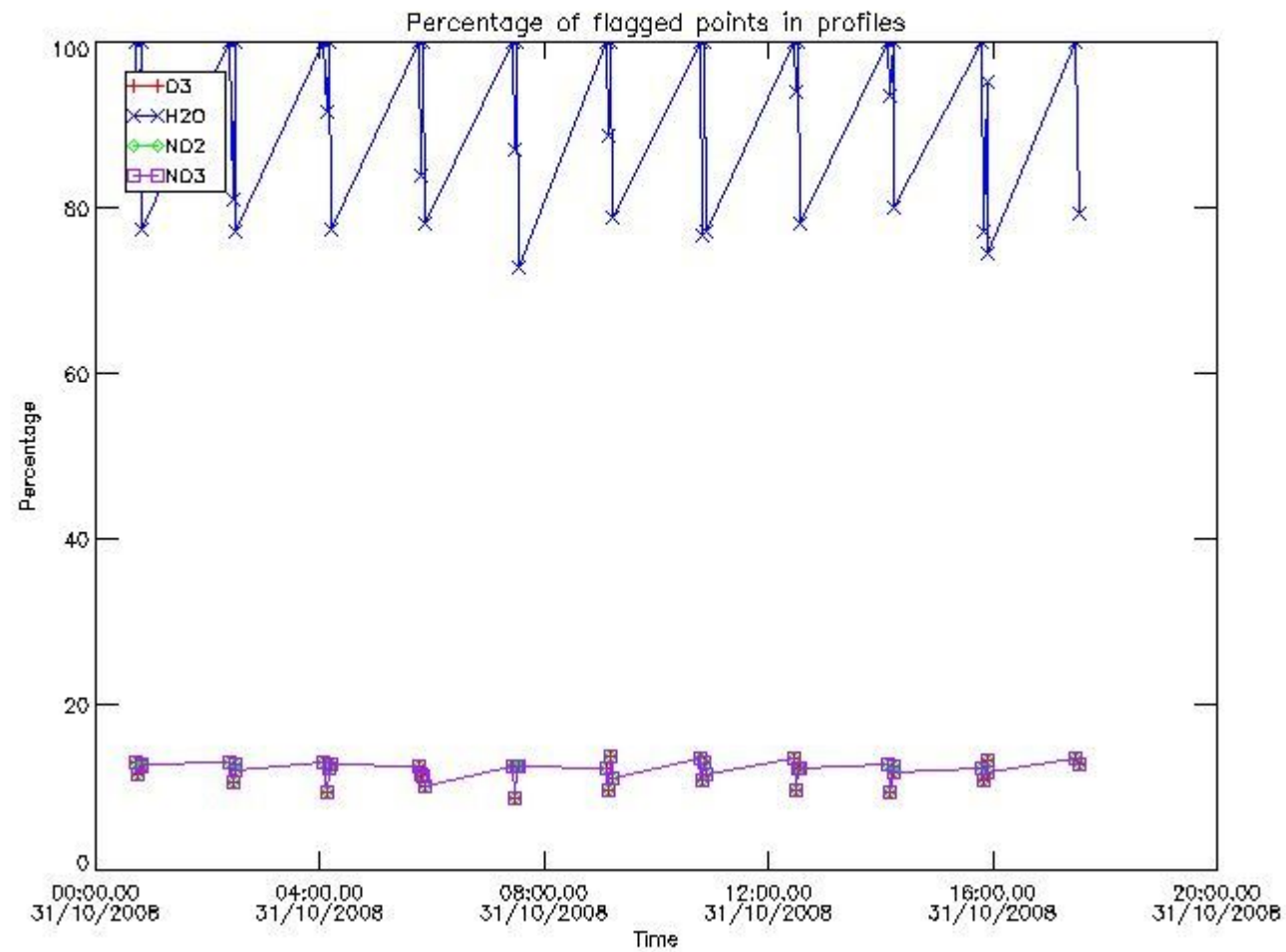
102	GOM_NL__2PRFIN20081031_102702_000000382073_00251_34874_8206.N1	31-OCT-2008 10:27:02	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	34874	No
103	GOM_NL__2PRFIN20081031_104653_000000382073_00251_34874_8207.N1	31-OCT-2008 10:46:53	Dark	38.000	113	Mu Vel	2.6920	5000.0	76	34874	No
104	GOM_NL__2PRFIN20081031_104923_000000482073_00251_34874_8208.N1	31-OCT-2008 10:49:23	Dark	47.500	65	Lam Vel	2.2040	4400.0	95	34874	No
105	GOM_NL__2PRFIN20081031_105159_000000392073_00252_34875_8208.N1	31-OCT-2008 10:51:59	Dark	39.000	46	Del Vel	1.9540	10600.	78	34875	No
106	GOM_NL__2PRFIN20081031_105320_000000442073_00252_34875_8209.N1	31-OCT-2008 10:53:20	Dark	44.000	41	Eps Car	1.8600	4100.0	88	34875	No
107	GOM_NL__2PRFIN20081031_110846_000000402073_00252_34875_8210.N1	31-OCT-2008 11:08:46	Straylight	40.000	157	The1Eri	2.9060	9300.0	80	34875	No
108	GOM_NL__2PRFIN20081031_112741_000000372073_00252_34875_8211.N1	31-OCT-2008 11:27:41	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	34875	No
109	GOM_NL__2PRFIN20081031_113141_000000372073_00252_34875_8212.N1	31-OCT-2008 11:31:41	Bright	36.500	53	43Bet And	2.0480	3300.0	73	34875	No
110	GOM_NL__2PRFIN20081031_113409_000000412073_00252_34875_8213.N1	31-OCT-2008 11:34:09	Bright	40.500	73	57Gam1And	2.2600	13100.	81	34875	No
111	GOM_NL__2PRFIN20081031_113734_000000372073_00252_34875_8214.N1	31-OCT-2008 11:37:34	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	34875	No
112	GOM_NL__2PRFIN20081031_113845_000000362073_00252_34875_8215.N1	31-OCT-2008 11:38:45	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	34875	No
113	GOM_NL__2PRFIN20081031_114650_000000372073_00252_34875_8216.N1	31-OCT-2008 11:46:50	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	34875	No
114	GOM_NL__2PRFIN20081031_115039_000000372073_00252_34875_8217.N1	31-OCT-2008 11:50:39	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	34875	No
115	GOM_NL__2PRFIN20081031_115459_000000392073_00252_34875_8218.N1	31-OCT-2008 11:54:59	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	34875	No
116	GOM_NL__2PRFIN20081031_115633_000000352073_00252_34875_8219.N1	31-OCT-2008 11:56:33	Bright	35.000	32	77Eps UMa	1.7630	11000.	70	34875	No
117	GOM_NL__2PRFIN20081031_120016_000000392073_00252_34875_8220.N1	31-OCT-2008 12:00:16	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	34875	No
118	GOM_NL__2PRFIN20081031_120739_000000382073_00252_34875_8221.N1	31-OCT-2008 12:07:39	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	34875	No
119	GOM_NL__2PRFIN20081031_122729_000000382073_00252_34875_8222.N1	31-OCT-2008 12:27:29	Dark	38.000	113	Mu Vel	2.6920	5000.0	76	34875	No
120	GOM_NL__2PRFIN20081031_123000_000000582073_00252_34875_8223.N1	31-OCT-2008 12:30:00	Dark	57.500	65	Lam Vel	2.2040	4400.0	115	34875	No
121	GOM_NL__2PRFIN20081031_123236_000000422073_00253_34876_8220.N1	31-OCT-2008 12:32:36	Dark	41.500	46	Del Vel	1.9540	10600.	83	34876	No
122	GOM_NL__2PRFIN20081031_123357_000000422073_00253_34876_8221.N1	31-OCT-2008 12:33:57	Dark	41.500	41	Eps Car	1.8600	4100.0	83	34876	No
123	GOM_NL__2PRFIN20081031_124922_000000422073_00253_34876_8222.N1	31-OCT-2008 12:49:22	Straylight	41.500	157	The1Eri	2.9060	9300.0	83	34876	No
124	GOM_NL__2PRFIN20081031_130816_000000382073_00253_34876_8223.N1	31-OCT-2008 13:08:16	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	34876	No
125	GOM_NL__2PRFIN20081031_131217_000000372073_00253_34876_8224.N1	31-OCT-2008 13:12:17	Bright	36.500	53	43Bet And	2.0480	3300.0	73	34876	No
126	GOM_NL__2PRFIN20081031_131444_000000402073_00253_34876_8225.N1	31-OCT-2008 13:14:44	Bright	40.000	73	57Gam1And	2.2600	13100.	80	34876	No
127	GOM_NL__2PRFIN20081031_131810_000000372073_00253_34876_8226.N1	31-OCT-2008 13:18:10	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	34876	No
128	GOM_NL__2PRFIN20081031_131921_000000362073_00253_34876_8227.N1	31-OCT-2008 13:19:21	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	34876	No
129	GOM_NL__2PRFIN20081031_132726_000000362073_00253_34876_8228.N1	31-OCT-2008 13:27:26	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	34876	No
130	GOM_NL__2PRFIN20081031_133115_000000362073_00253_34876_8229.N1	31-OCT-2008 13:31:15	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	34876	No
131	GOM_NL__2PRFIN20081031_133535_000000382073_00253_34876_8230.N1	31-OCT-2008 13:35:35	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	34876	No
132	GOM_NL__2PRFIN20081031_133709_000000362073_00253_34876_8231.N1	31-OCT-2008 13:37:09	Bright	36.000	32	77Eps UMa	1.7630	11000.	72	34876	No
133	GOM_NL__2PRFIN20081031_134052_000000562073_00253_34876_8232.N1	31-OCT-2008 13:40:52	Bright	56.000	174	52Psi UMa	3.0040	4400.0	112	34876	No
134	GOM_NL__2PRFIN20081031_134815_000000572073_00253_34876_8233.N1	31-OCT-2008 13:48:15	Bright	57.000	96	68Del Leo	2.5600	9300.0	114	34876	No
135	GOM_NL__2PRFIN20081031_140806_000000402073_00253_34876_8234.N1	31-OCT-2008 14:08:06	Dark	40.000	113	Mu Vel	2.6920	5000.0	80	34876	No
136	GOM_NL__2PRFIN20081031_141037_000000542073_00253_34876_8235.N1	31-OCT-2008 14:10:37	Dark	54.000	65	Lam Vel	2.2040	4400.0	108	34876	No
137	GOM_NL__2PRFIN20081031_141313_000000412073_00254_34877_8231.N1	31-OCT-2008 14:13:13	Dark	40.500	46	Del Vel	1.9540	10600.	81	34877	No
138	GOM_NL__2PRFIN20081031_141433_000000432073_00254_34877_8232.N1	31-OCT-2008 14:14:33	Dark	43.000	41	Eps Car	1.8600	4100.0	86	34877	No
139	GOM_NL__2PRFIN20081031_142959_000000382073_00254_34877_8233.N1	31-OCT-2008 14:29:59	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	34877	No
140	GOM_NL__2PRFIN20081031_144852_000000392073_00254_34877_8234.N1	31-OCT-2008 14:48:52	Bright	39.000	105	6Bet Ari	2.6450	8900.0	78	34877	No
141	GOM_NL__2PRFIN20081031_145253_000000362073_00254_34877_8235.N1	31-OCT-2008 14:52:53	Bright	35.500	53	43Bet And	2.0480	3300.0	71	34877	No
142	GOM_NL__2PRFIN20081031_145520_000000402073_00254_34877_8236.N1	31-OCT-2008 14:55:20	Bright	39.500	73	57Gam1And	2.2600	13100.	79	34877	No
143	GOM_NL__2PRFIN20081031_145846_000000362073_00254_34877_8237.N1	31-OCT-2008 14:58:46	Bright	35.500	68	18Alp Cas	2.2250	4500.0	71	34877	No
144	GOM_NL__2PRFIN20081031_145957_000000362073_00254_34877_8238.N1	31-OCT-2008 14:59:57	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	34877	No
145	GOM_NL__2PRFIN20081031_150802_000000362073_00254_34877_8239.N1	31-OCT-2008 15:08:02	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	34877	No
146	GOM_NL__2PRFIN20081031_151152_000000382073_00254_34877_8240.N1	31-OCT-2008 15:11:52	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	34877	No
147	GOM_NL__2PRFIN20081031_151611_000000382073_00254_34877_8241.N1	31-OCT-2008 15:16:11	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	34877	No
148	GOM_NL__2PRFIN20081031_151745_000000362073_00254_34877_8242.N1	31-OCT-2008 15:17:45	Bright	36.000	32	77Eps UMa	1.7630	11000.	72	34877	No
149	GOM_NL__2PRFIN20081031_152128_000000372073_00254_34877_8243.N1	31-OCT-2008 15:21:28	Bright	36.500	174	52Psi UMa	3.0040	4400.0	73	34877	No
150	GOM_NL__2PRFIN20081031_152851_000000572073_00254_34877_8244.N1	31-OCT-2008 15:28:51	Bright	57.000	96	68Del Leo	2.5600	9300.0	114	34877	No
151	GOM_NL__2PRFIN20081031_154842_000000422073_00254_34877_8245.N1	31-OCT-2008 15:48:42	Dark	41.500	113	Mu Vel	2.6920	5000.0	83	34877	No
152	GOM_NL__2PRFIN20081031_155114_000000472073_00254_34877_8246.N1	31-OCT-2008 15:51:14	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	34877	No
153	GOM_NL__2PRFIN20081031_155349_000000432073_00255_34878_8253.N1	31-OCT-2008 15:53:49	Dark	42.500	46	Del Vel	1.9540	10600.	85	34878	No
154	GOM_NL__2PRFIN20081031_155510_000000442073_00255_34878_8254.N1	31-OCT-2008 15:55:10	Dark	43.500	41	Eps Car	1.8600	4100.0	87	34878	No
155	GOM_NL__2PRFIN20081031_161035_000000402073_00255_34878_8255.N1	31-OCT-2008 16:10:35	Straylight	40.000	157	The1Eri	2.9060	9300.0	80	34878	No
156	GOM_NL__2PRFIN20081031_162928_000000392073_00255_34878_8256.N1	31-OCT-2008 16:29:28	Bright	39.000	105	6Bet Ari	2.6450	8900.0	78	34878	No
157	GOM_NL__2PRFIN20081031_163329_000000382073_00255_34878_8257.N1	31-OCT-2008 16:33:29	Bright	38.000	53	43Bet And	2.0480	3300.0	76	34878	No
158	GOM_NL__2PRFIN20081031_163556_000000402073_00255_34878_8258.N1	31-OCT-2008 16:35:56	Bright	40.000	73	57Gam1And	2.2600	13100.	80	34878	No
159	GOM_NL__2PRFIN20081031_163922_000000372073_00255_34878_8259.N1	31-OCT-2008 16:39:22	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	34878	No
160	GOM_NL__2PRFIN20081031_164033_000000362073_00255_34878_8260.N1	31-OCT-2008 16:40:33	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	34878	No

161	GOM_NL__2PRFIN20081031_164838_000000372073_00255_34878_8261.N1	31-OCT-2008 16:48:38	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	34878	No
162	GOM_NL__2PRFIN20081031_165228_000000362073_00255_34878_8262.N1	31-OCT-2008 16:52:28	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	34878	No
163	GOM_NL__2PRFIN20081031_165647_000000412073_00255_34878_8263.N1	31-OCT-2008 16:56:47	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	34878	No
164	GOM_NL__2PRFIN20081031_165821_000000352073_00255_34878_8264.N1	31-OCT-2008 16:58:21	Bright	35.000	32	77Eps UMa	1.7630	11000.	70	34878	No
165	GOM_NL__2PRFIN20081031_170204_000000532073_00255_34878_8265.N1	31-OCT-2008 17:02:04	Bright	53.000	174	52Psi UMa	3.0040	4400.0	106	34878	No
166	GOM_NL__2PRFIN20081031_170927_000000382073_00255_34878_8266.N1	31-OCT-2008 17:09:27	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	34878	No
167	GOM_NL__2PRFIN20081031_172918_000000382073_00255_34878_8267.N1	31-OCT-2008 17:29:18	Dark	37.500	113	Mu Vel	2.6920	5000.0	75	34878	No
168	GOM_NL__2PRFIN20081031_173150_000000442073_00255_34878_8268.N1	31-OCT-2008 17:31:50	Dark	43.500	65	Lam Vel	2.2040	4400.0	87	34878	No

### 3. Quality information per product

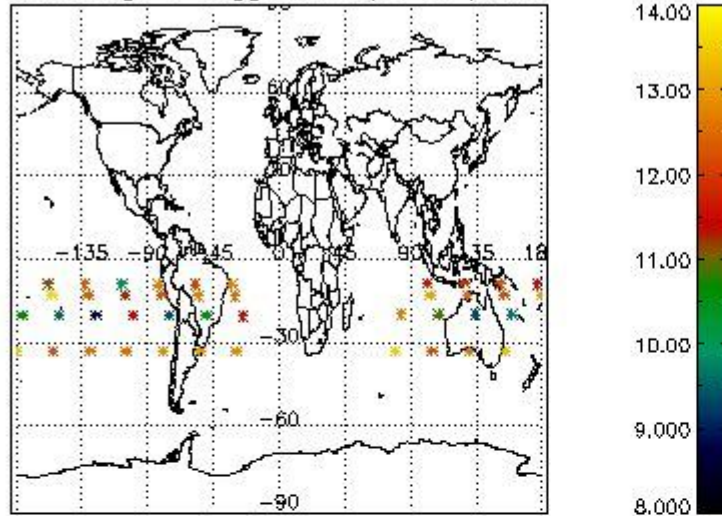
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

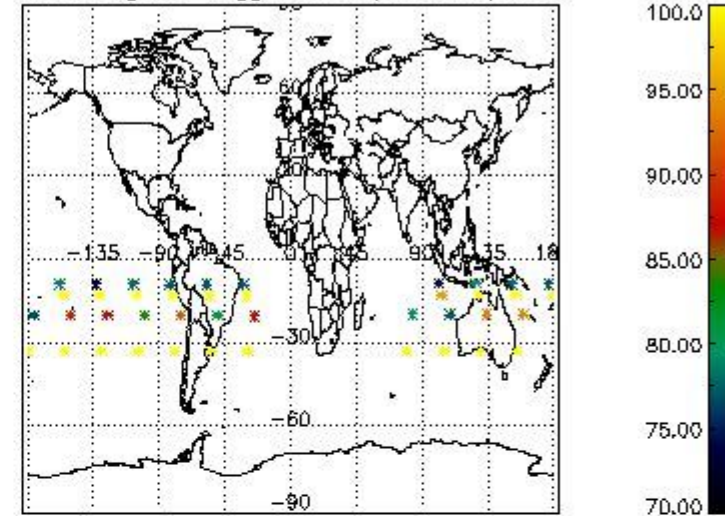


#### 3.2 Plot quality information per product (world map)

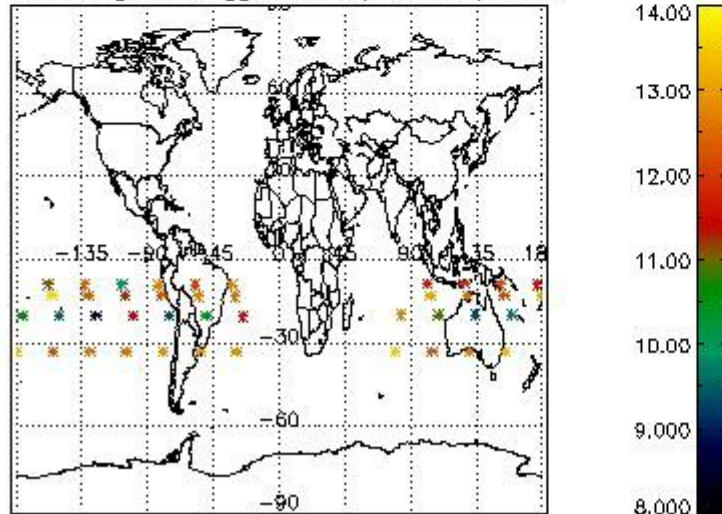
Percentage of flagged data per O3 profile



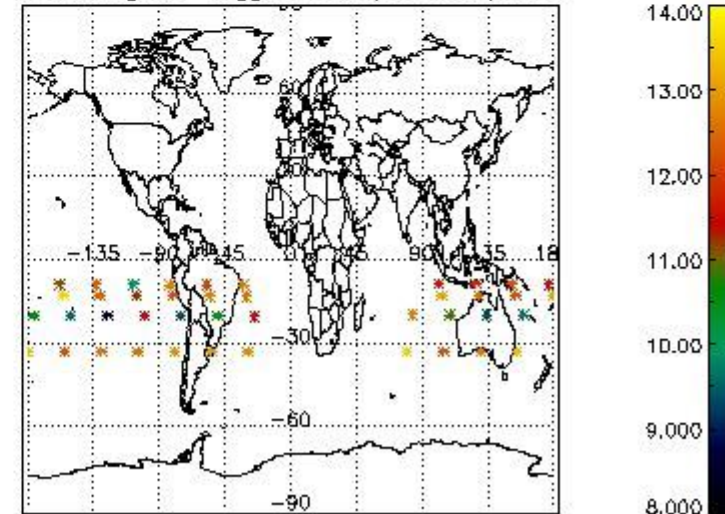
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

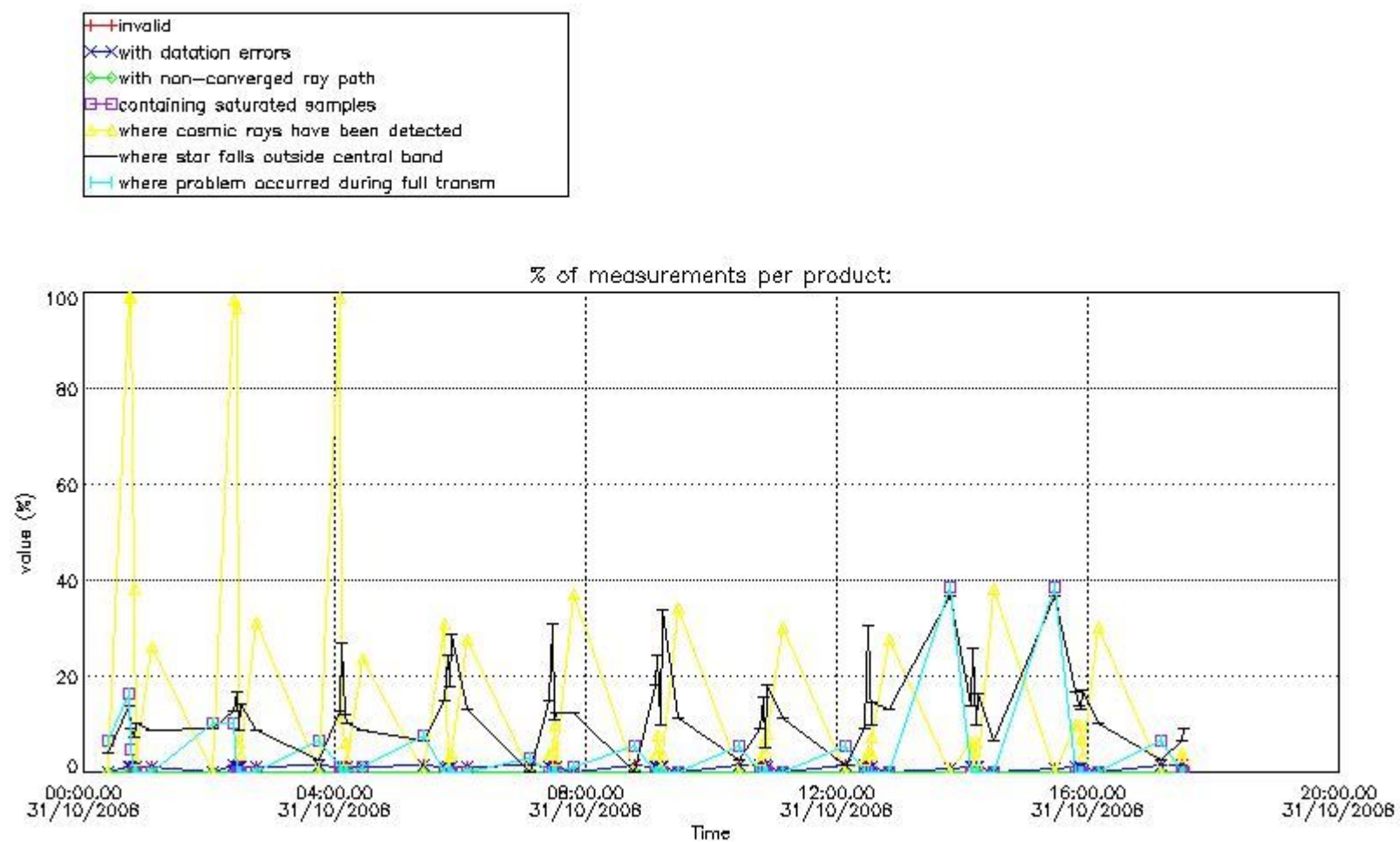


#### 4. Level 1 quality information per product

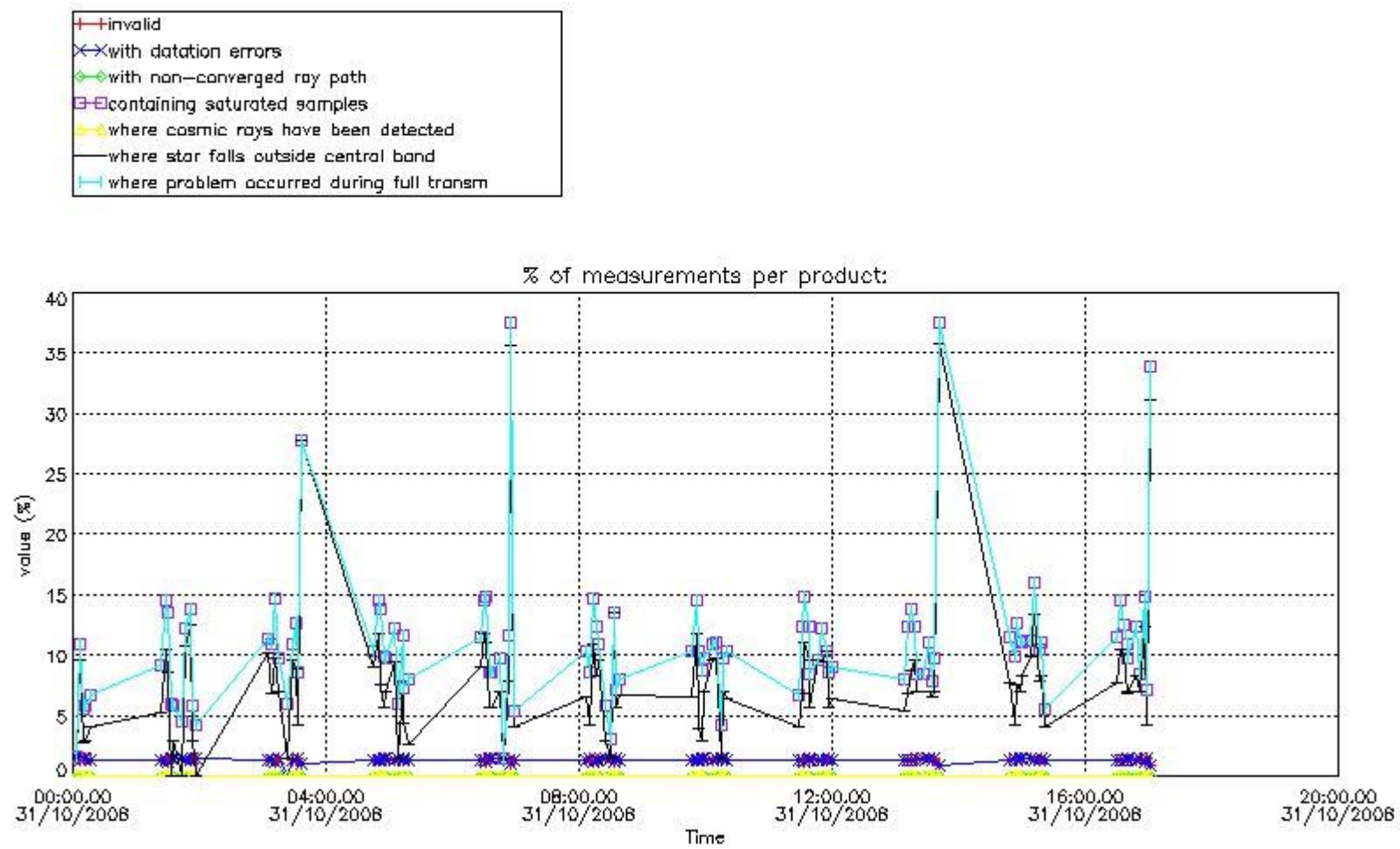
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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): ENVISAT DESCENDING passes

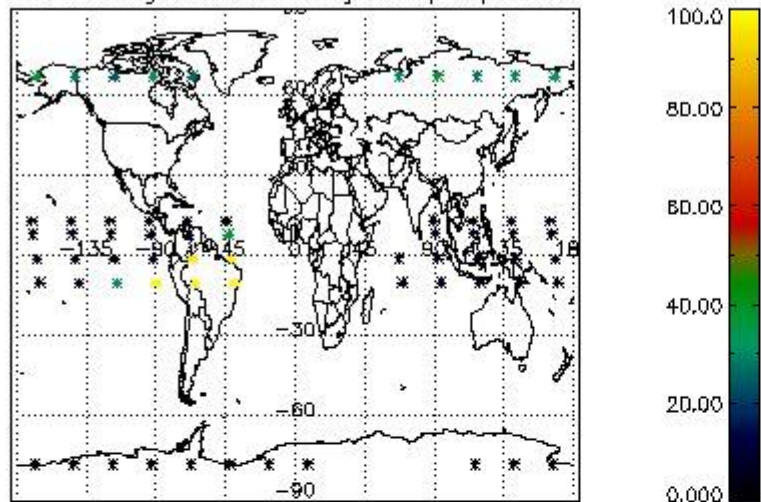


*4.2 Plot quality information per product coming from level 1b processing (world map)*

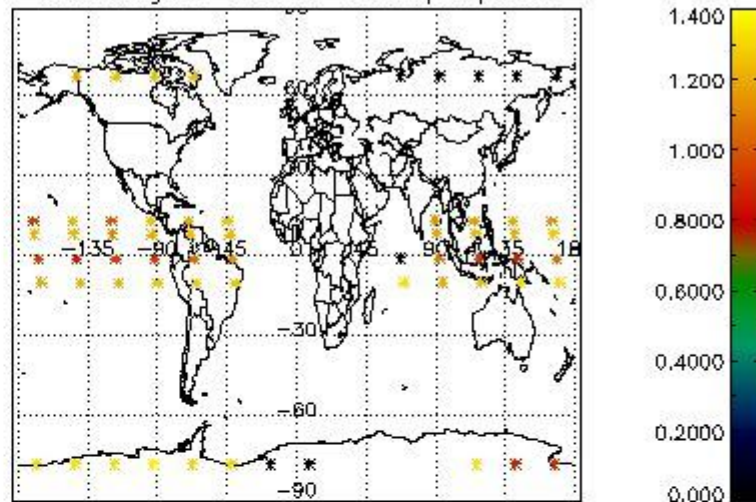
*4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes*



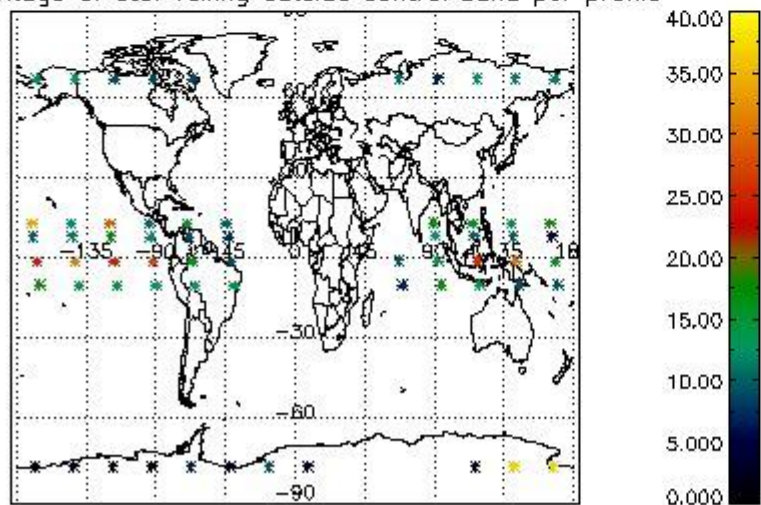
Percentage of cosmic ray hits per profile



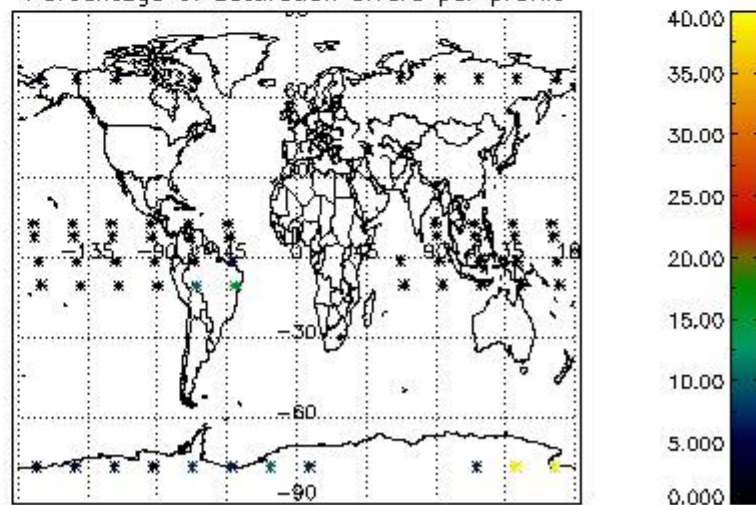
Percentage of datation errors per profile



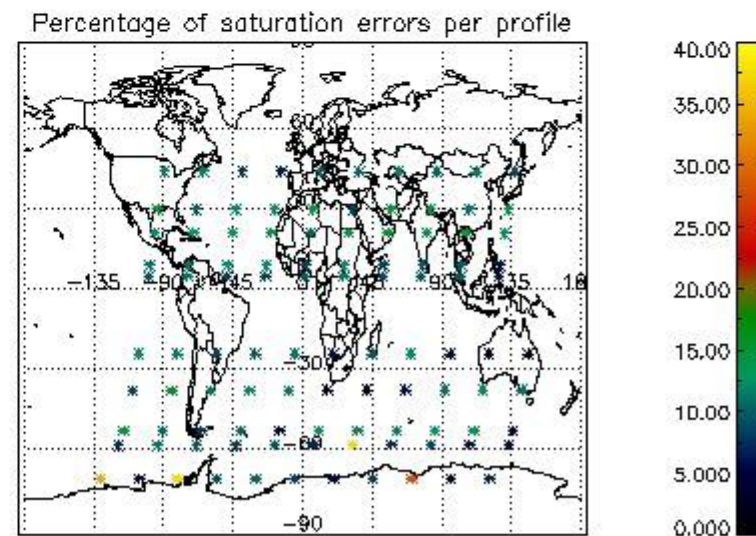
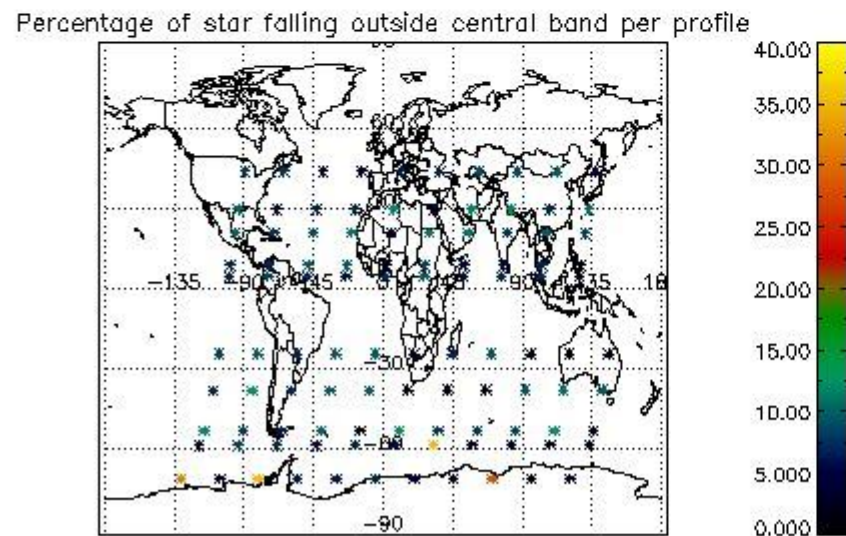
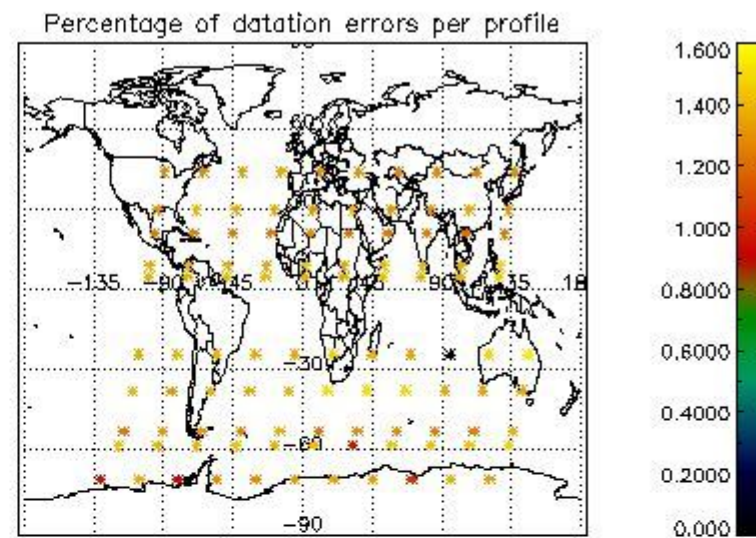
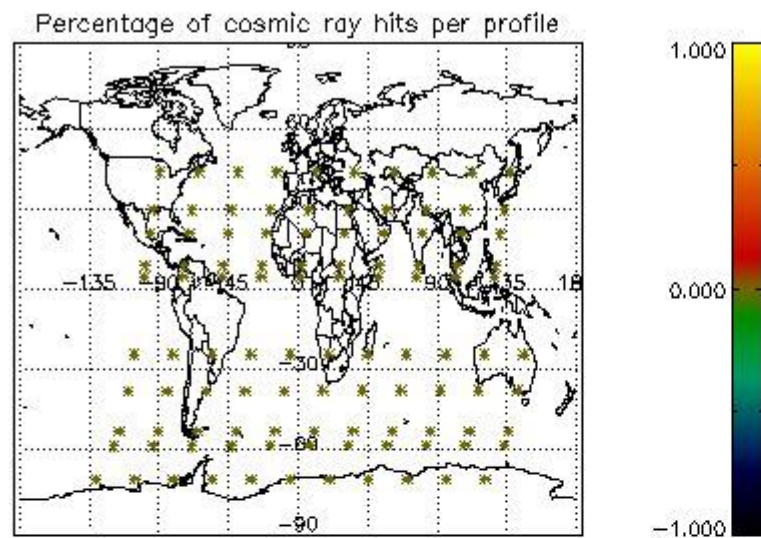
Percentage of star falling outside central band per profile



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

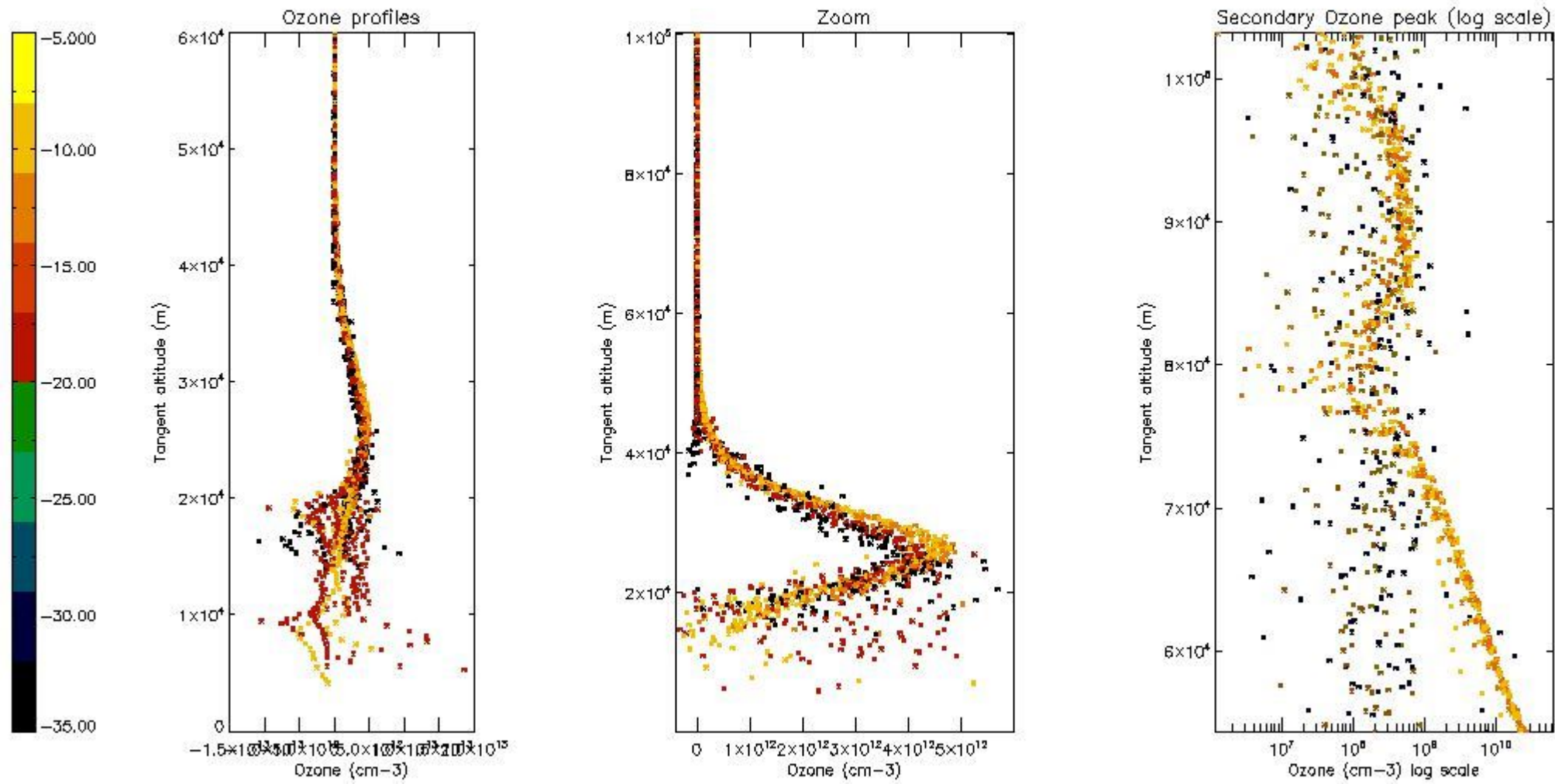
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	29
STD < 20	12

STD < 10	7
STD < 5	2

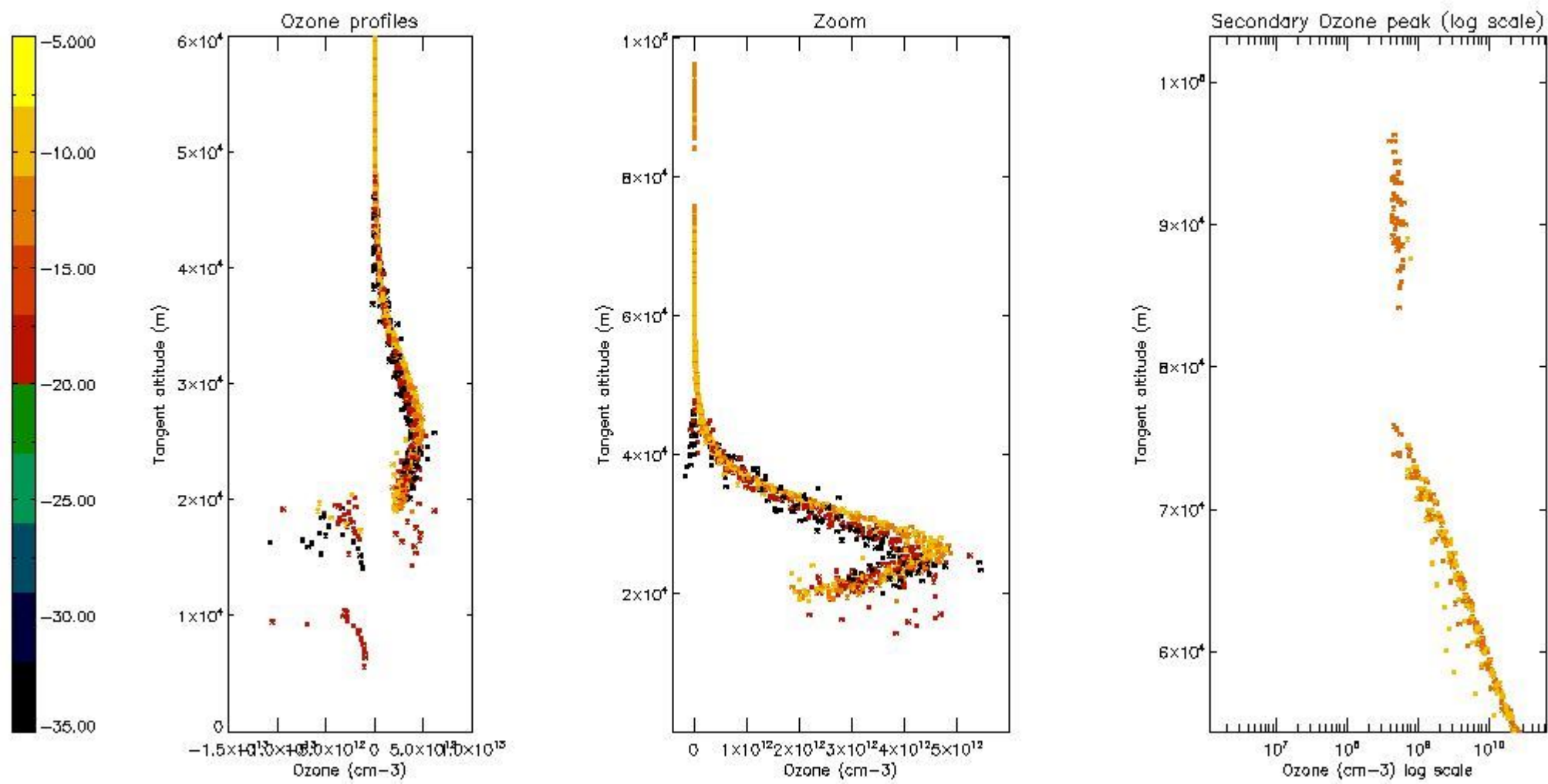
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



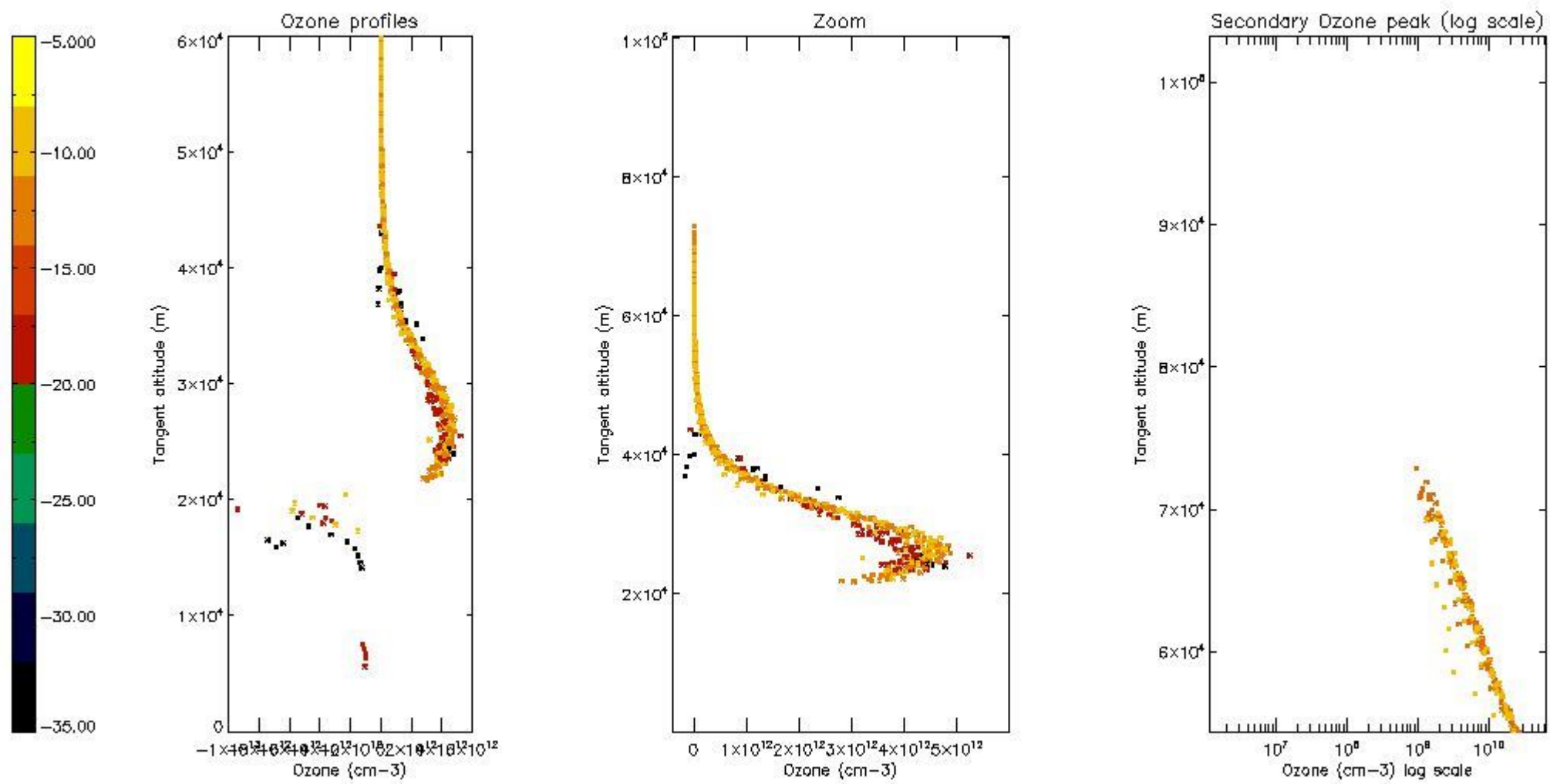
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



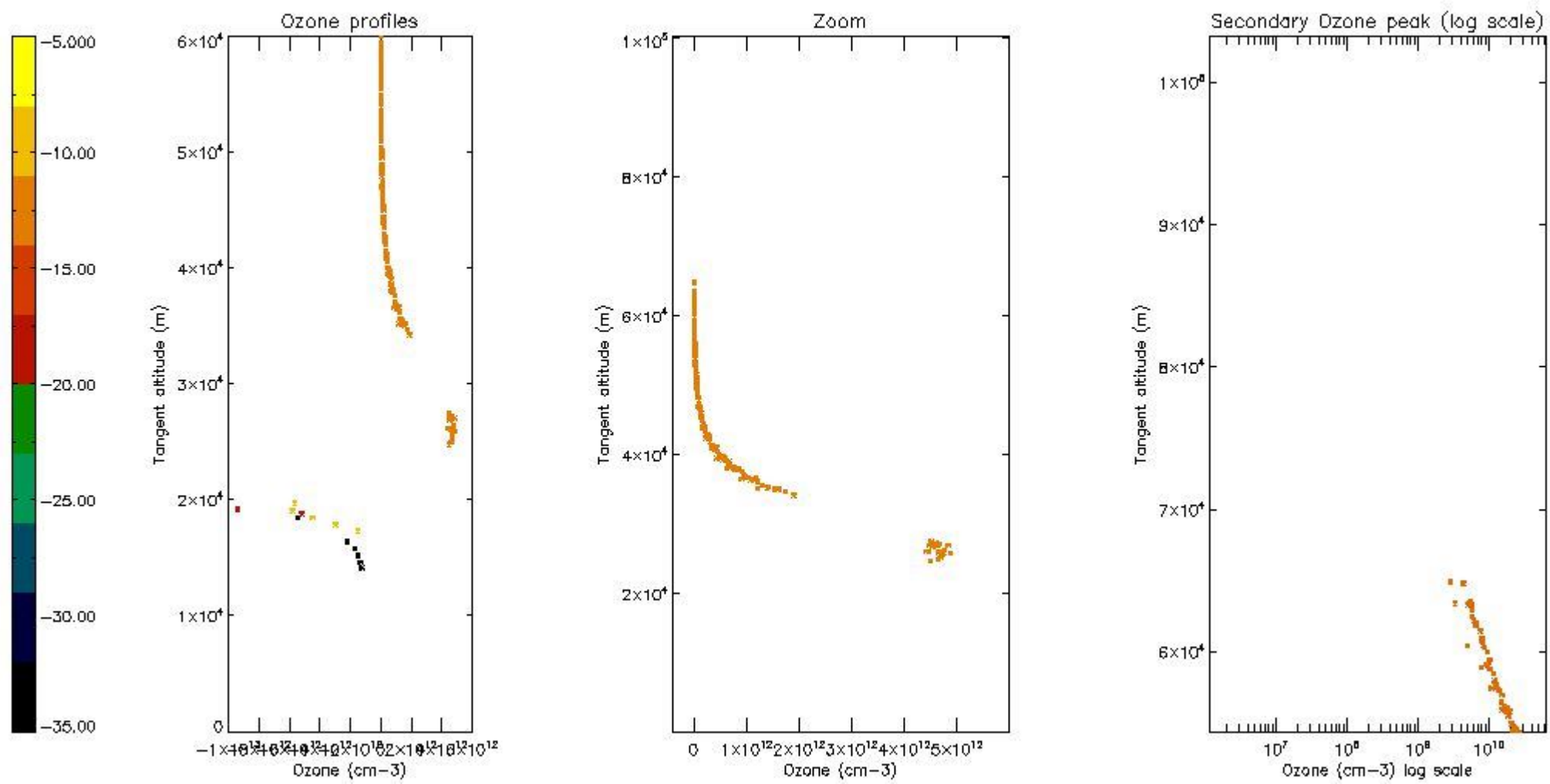
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



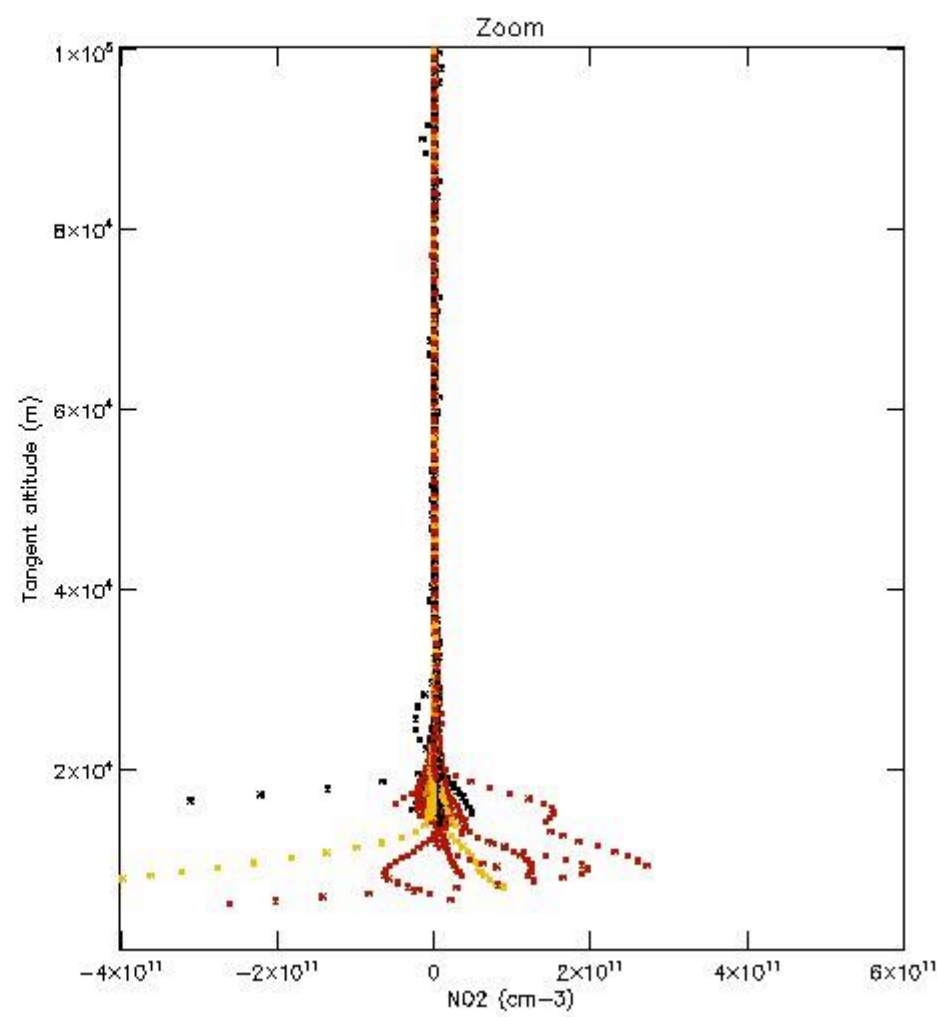
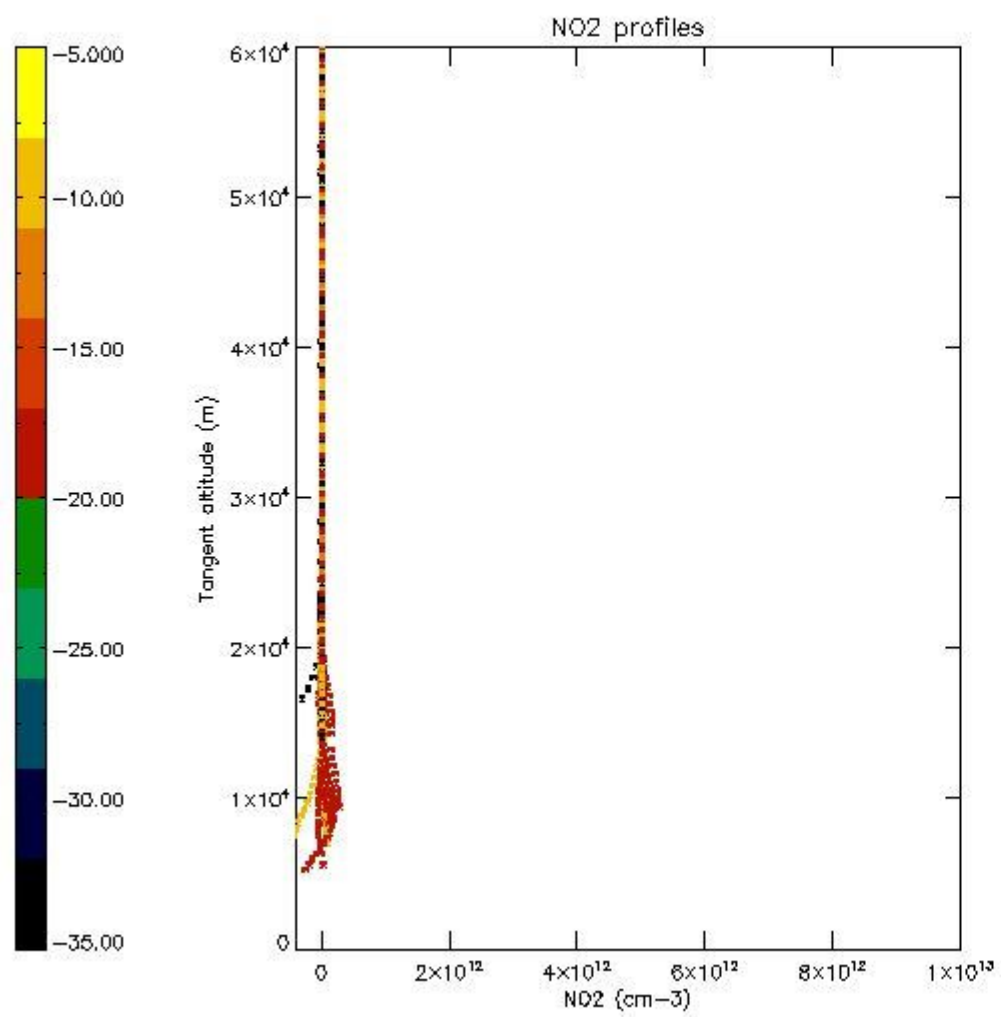
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



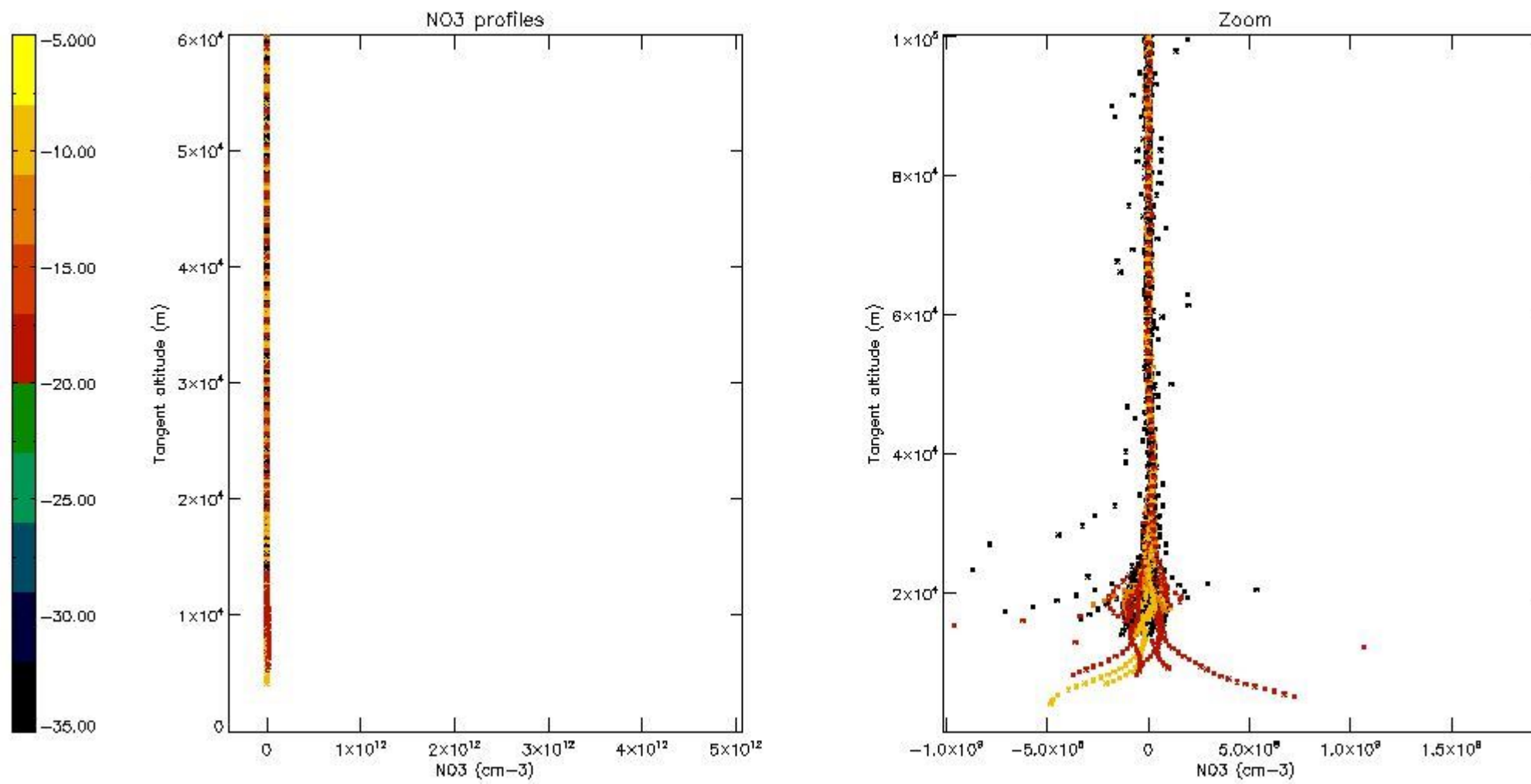
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.

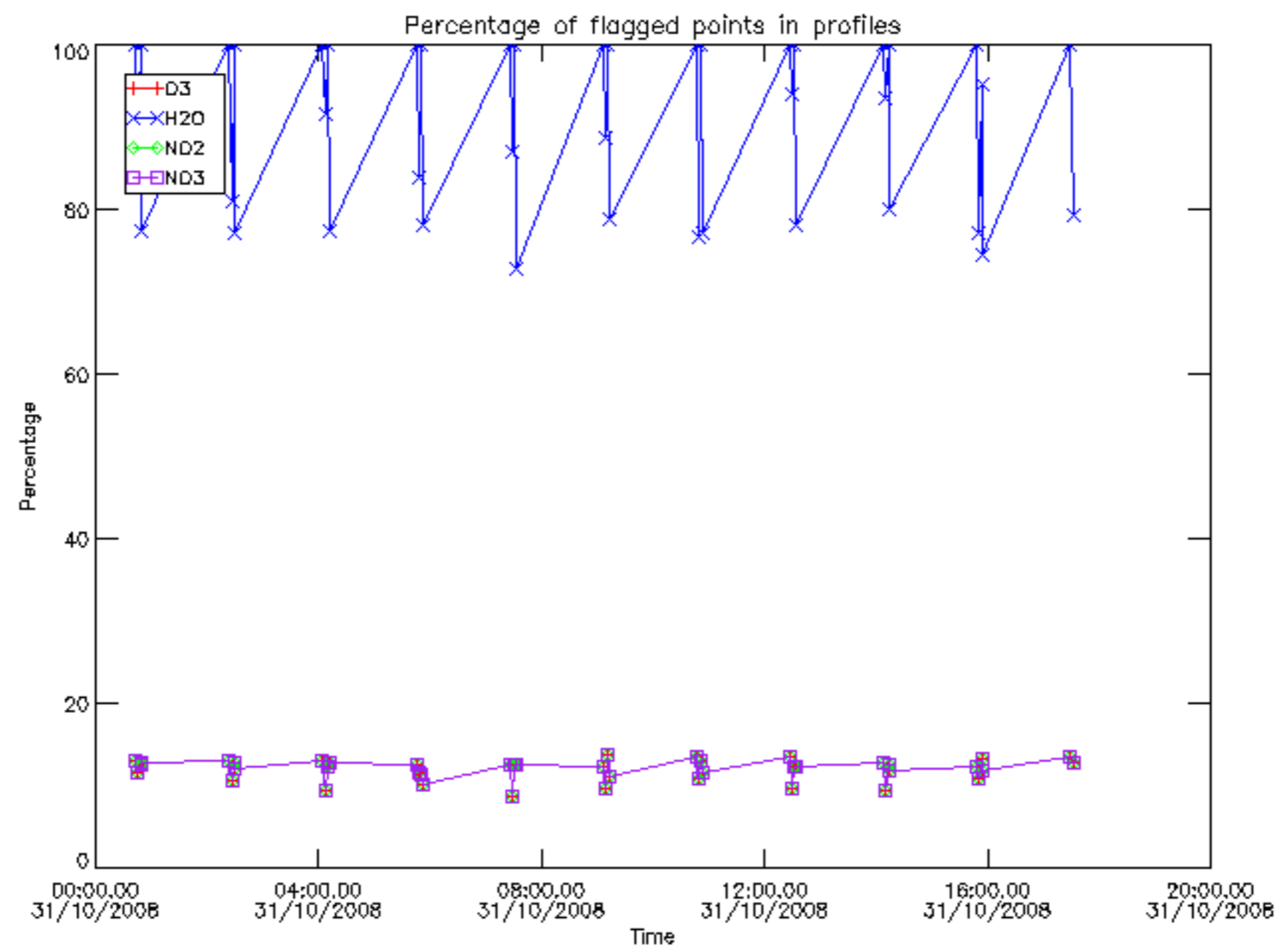


## 6. Auxiliary Data Files used for the production reported in section 2

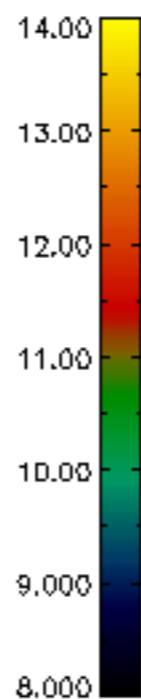
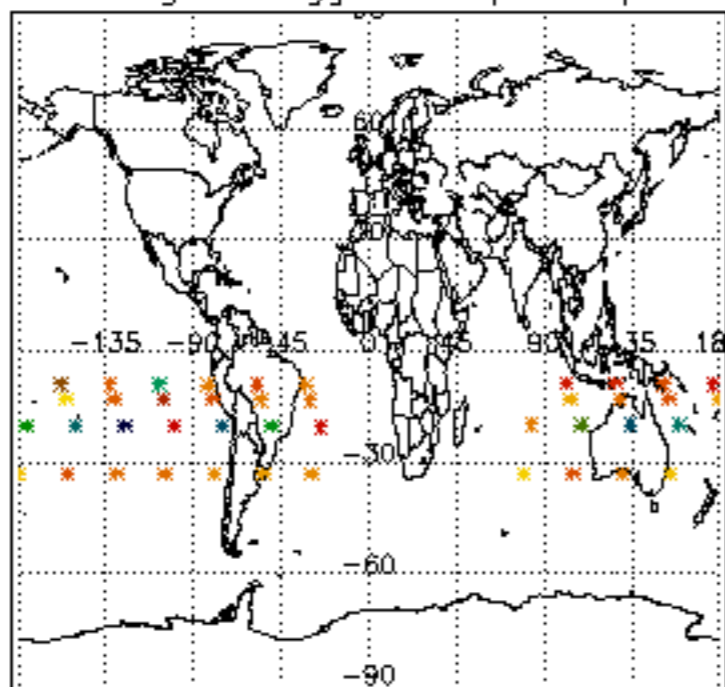
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	31-OCT-2008 00:02:39
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	31-OCT-2008 00:02:39
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	31-OCT-2008 00:02:39

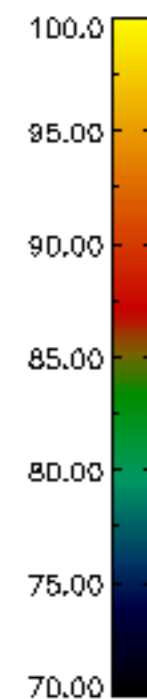
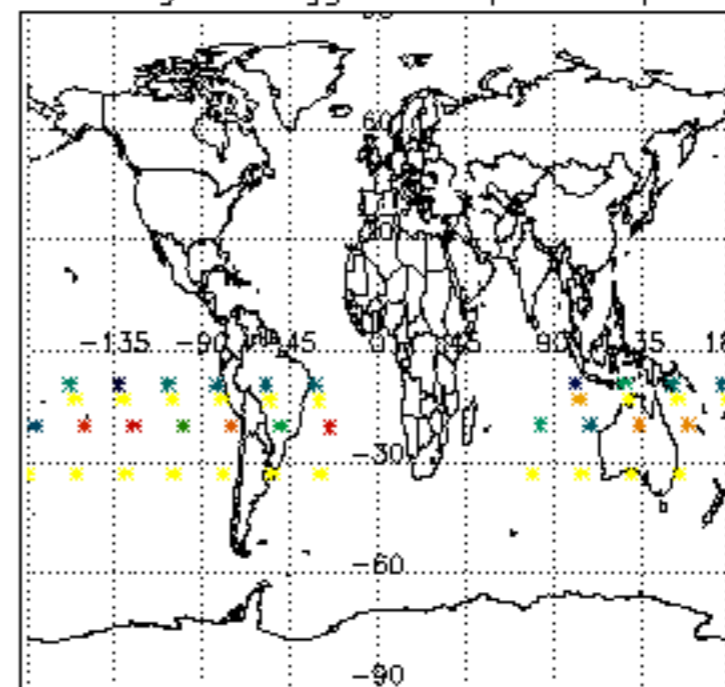




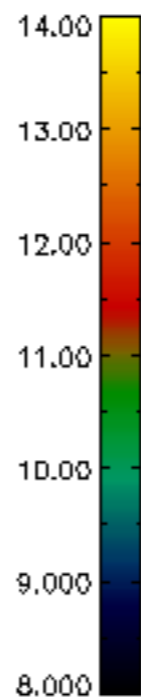
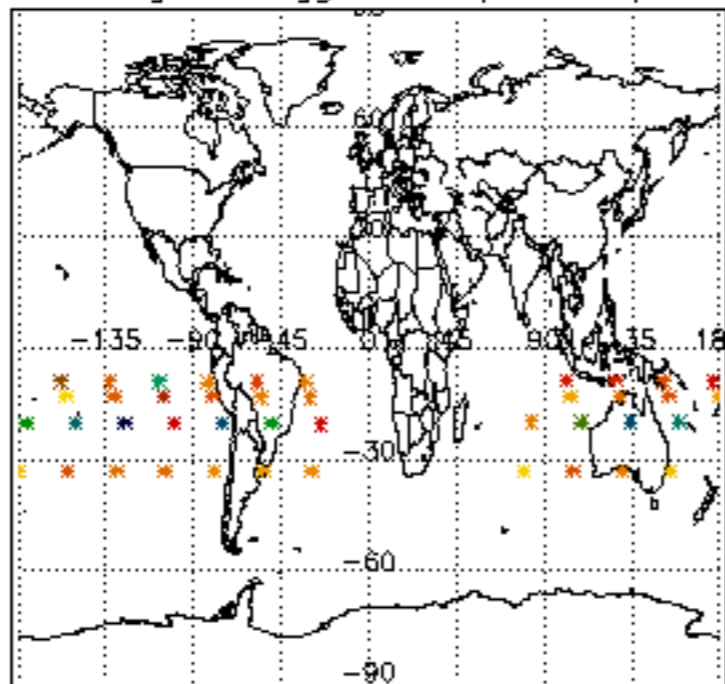
Percentage of flagged data per D3 profile



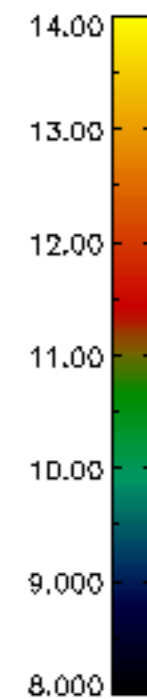
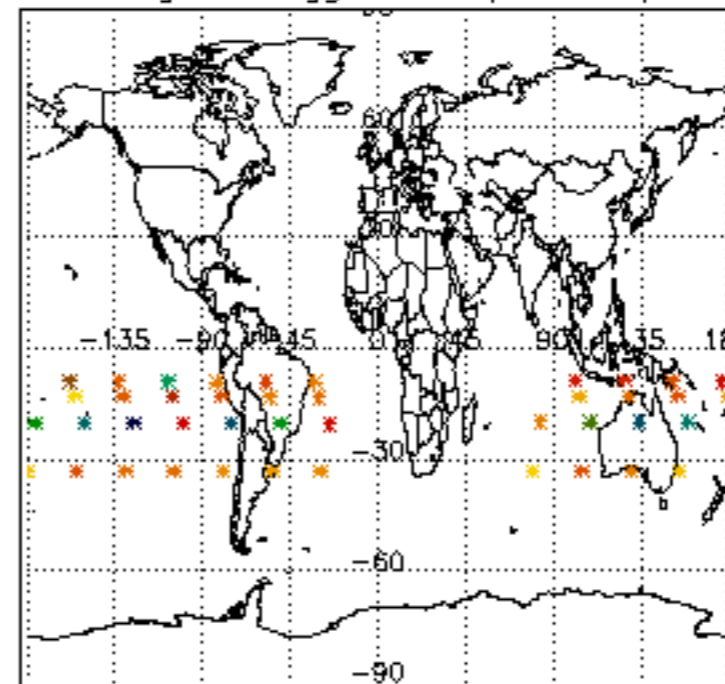
Percentage of flagged data per H2O profile

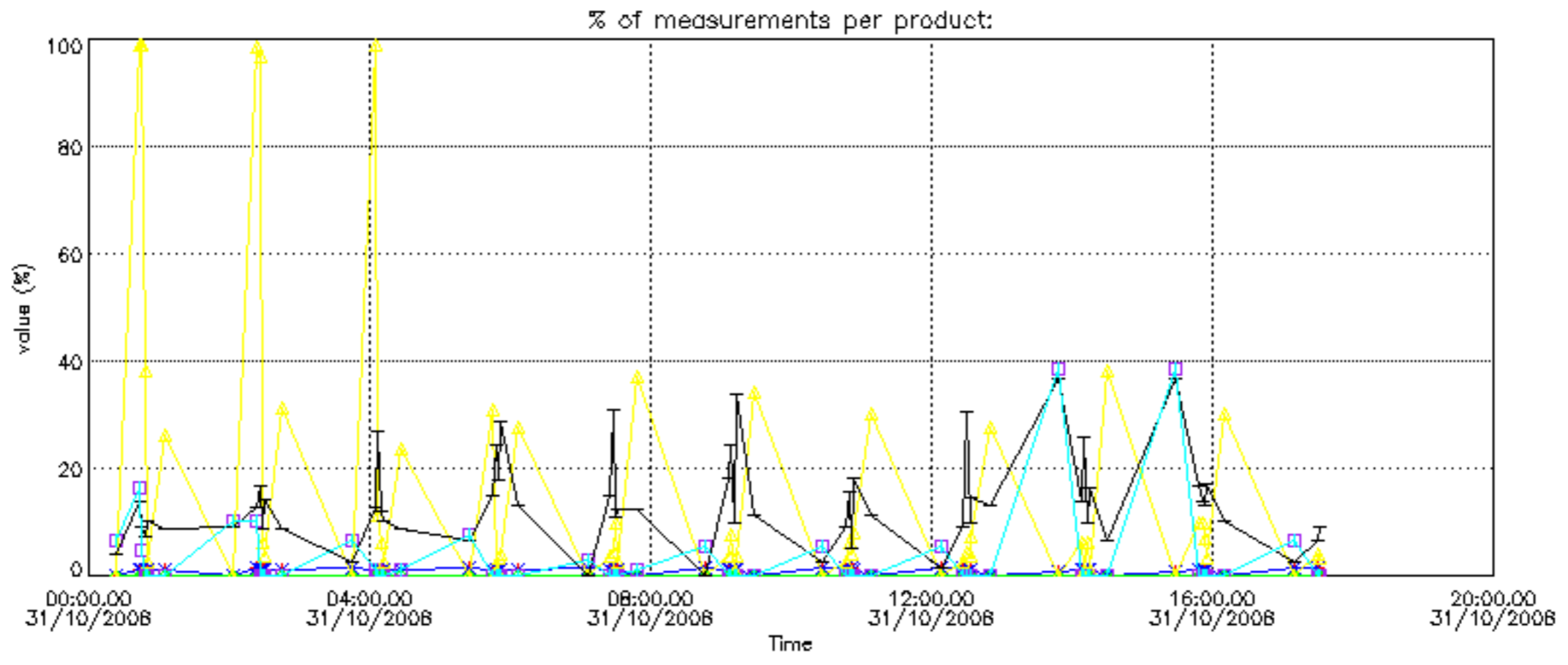


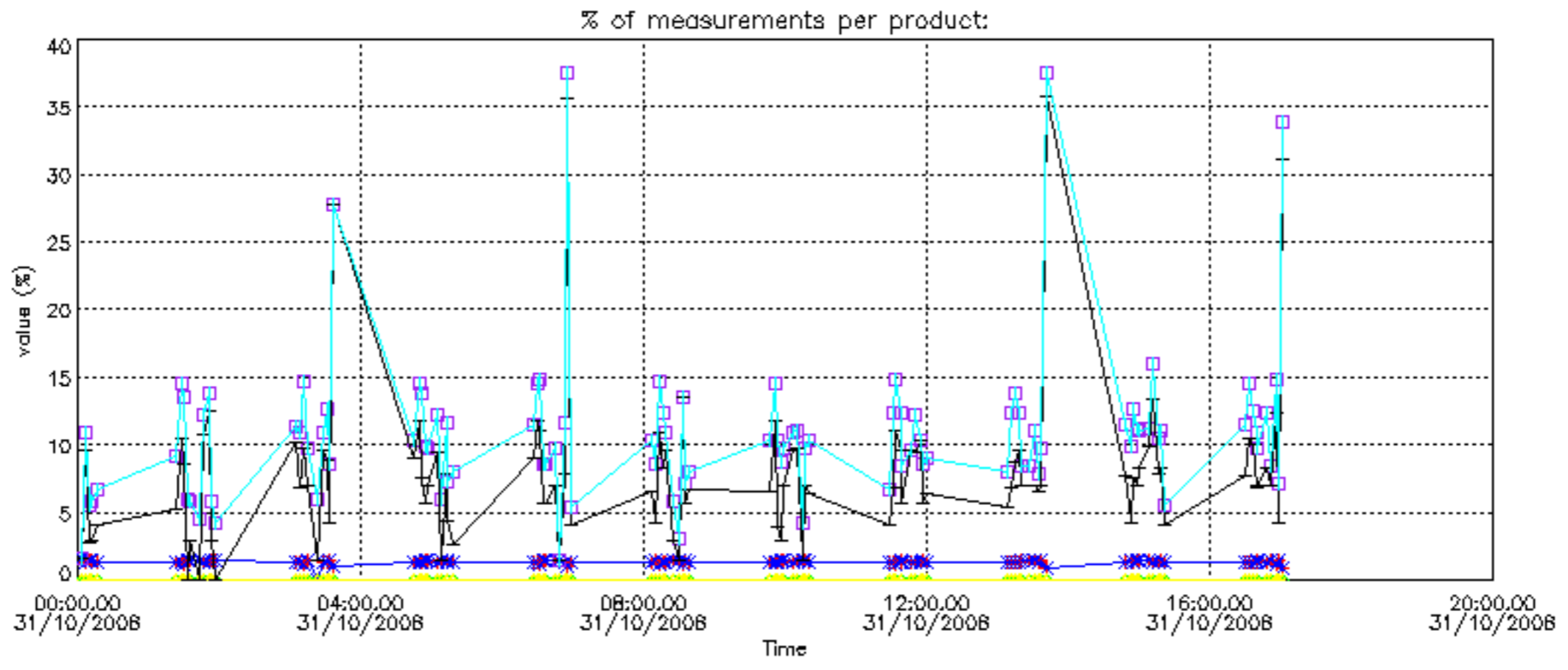
Percentage of flagged data per NO2 profile



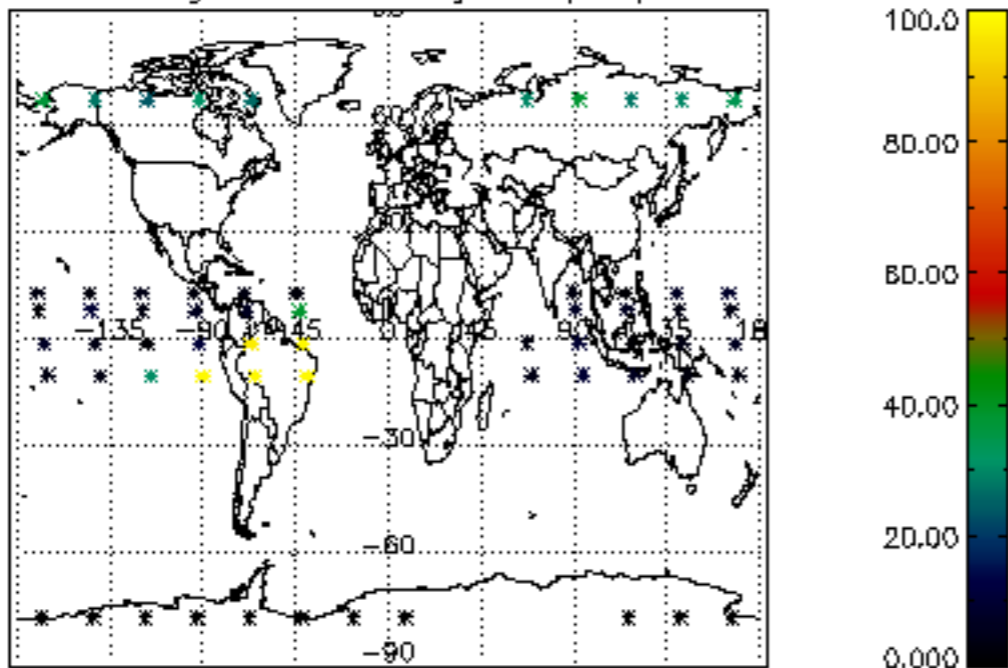
Percentage of flagged data per NO3 profile



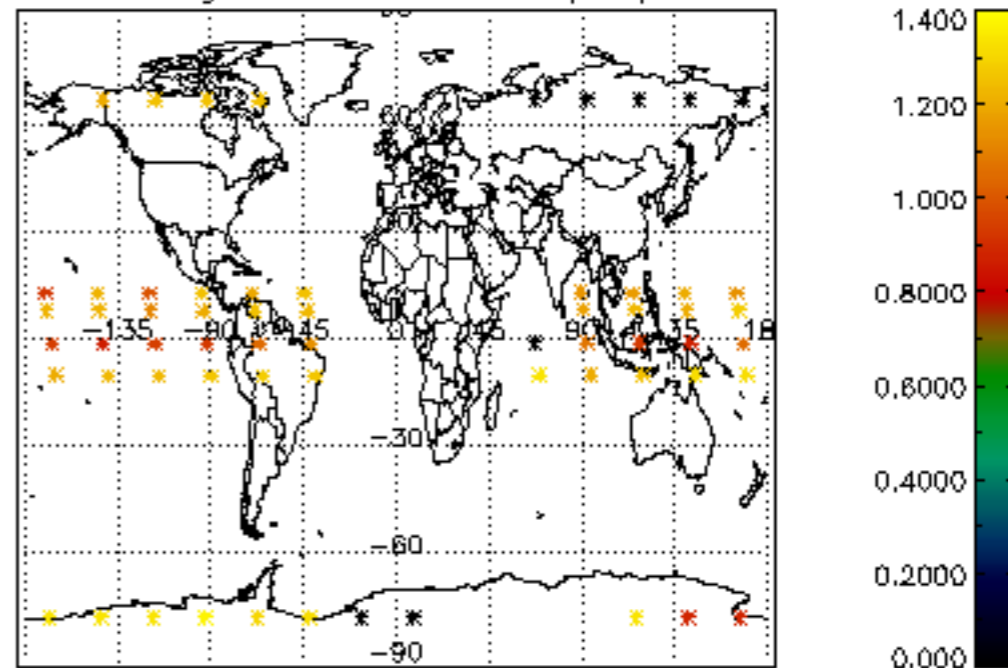




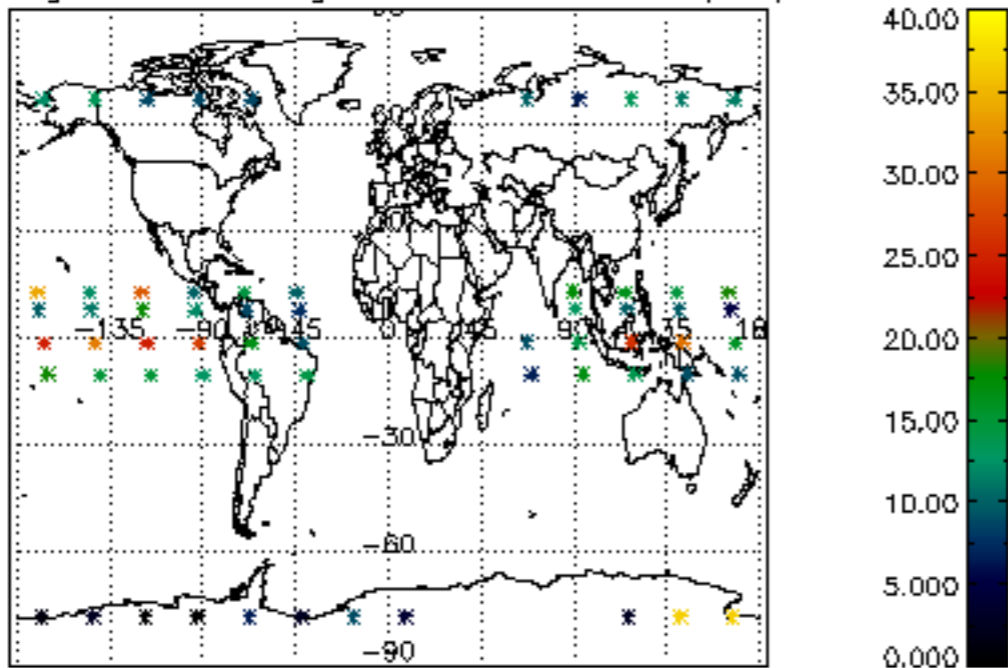
Percentage of cosmic ray hits per profile



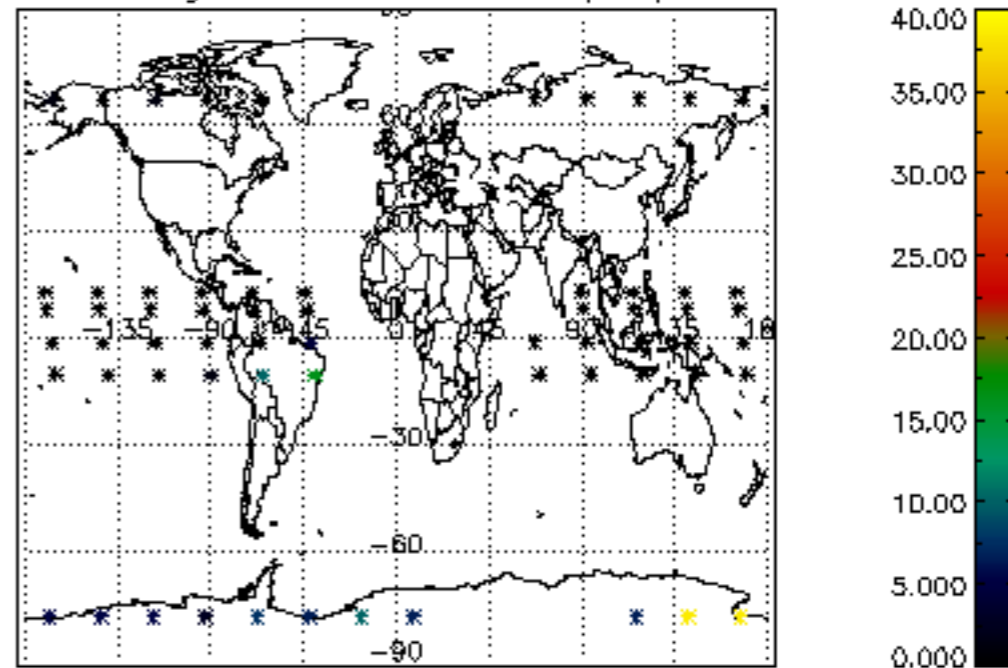
Percentage of datation errors per profile



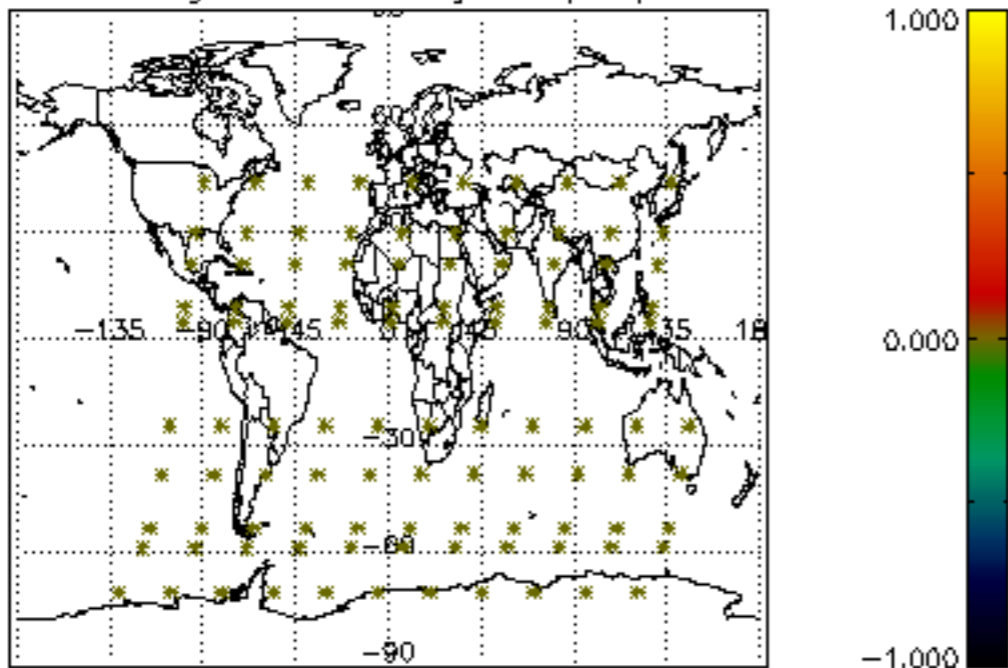
Percentage of star falling outside central band per profile



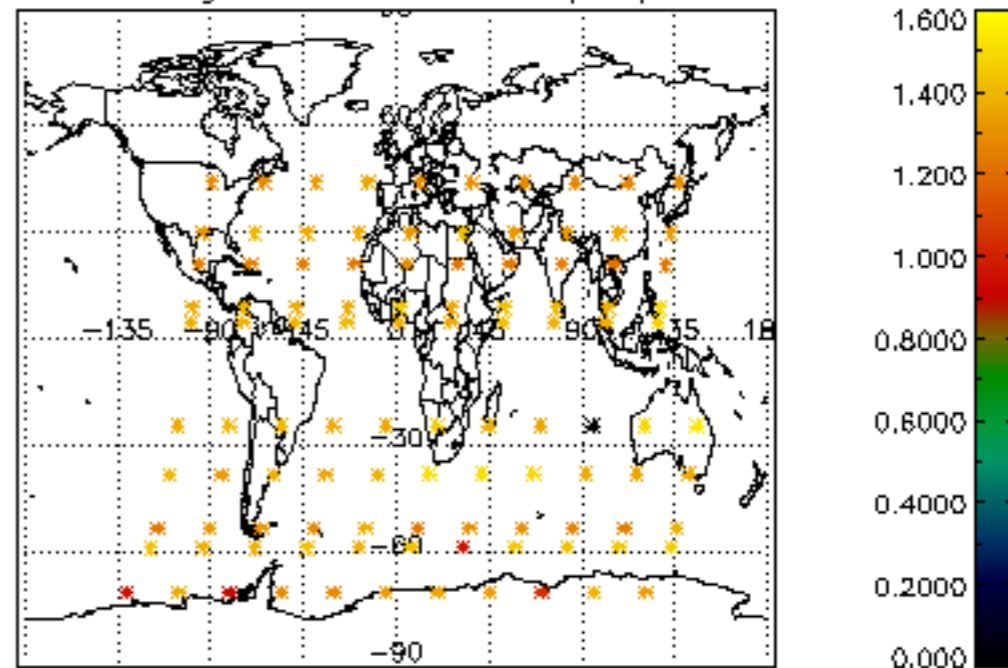
Percentage of saturation errors per profile



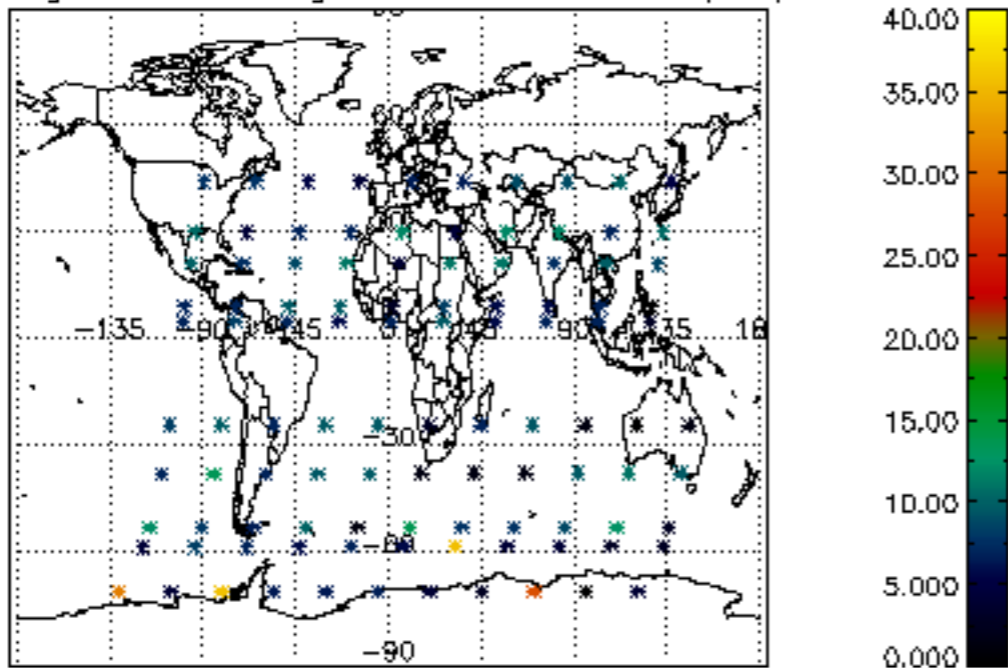
Percentage of cosmic ray hits per profile



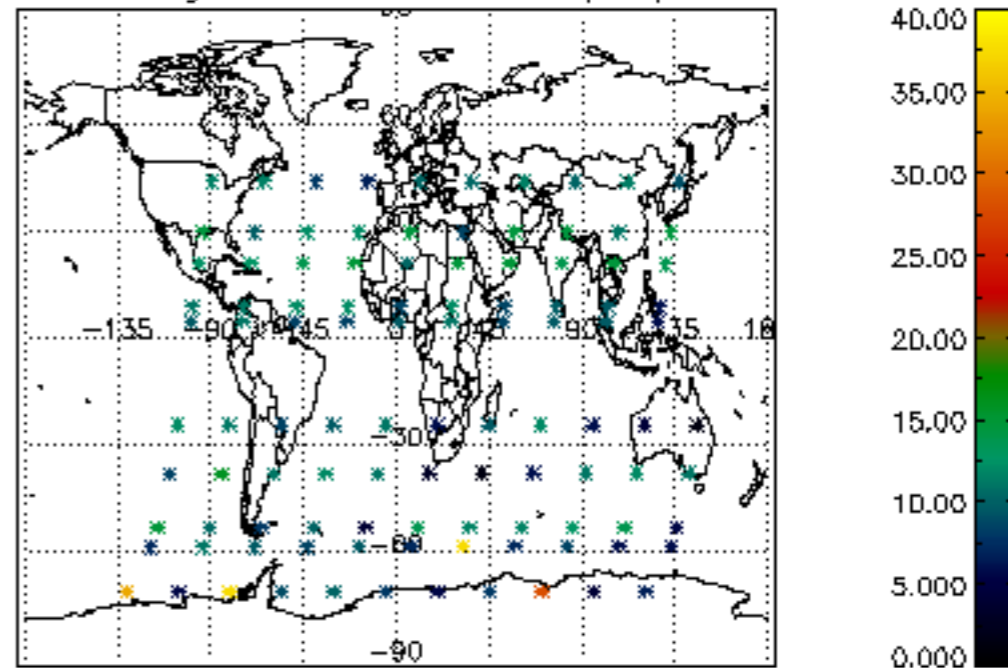
Percentage of datation errors per profile

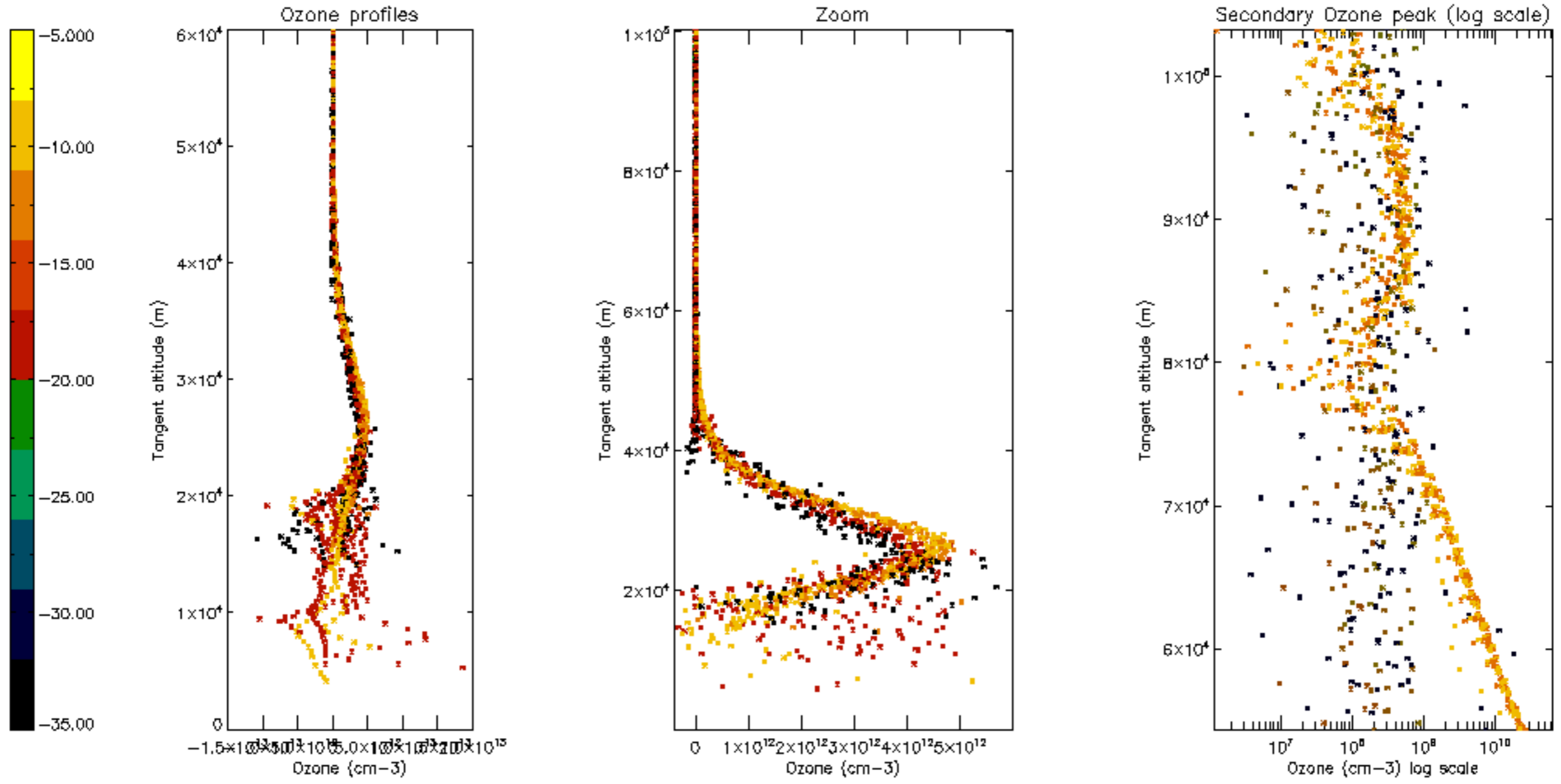


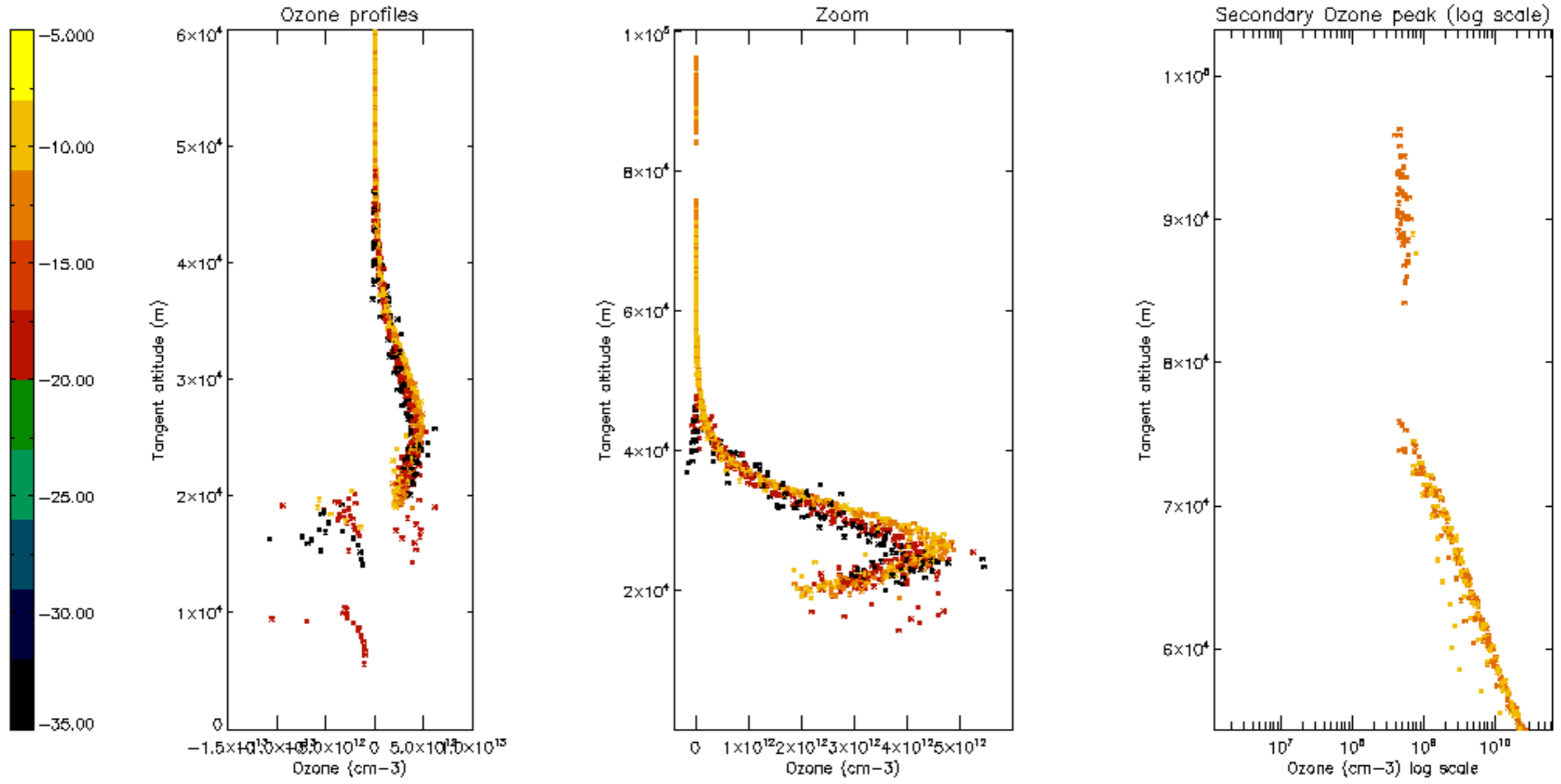
Percentage of star falling outside central band per profile



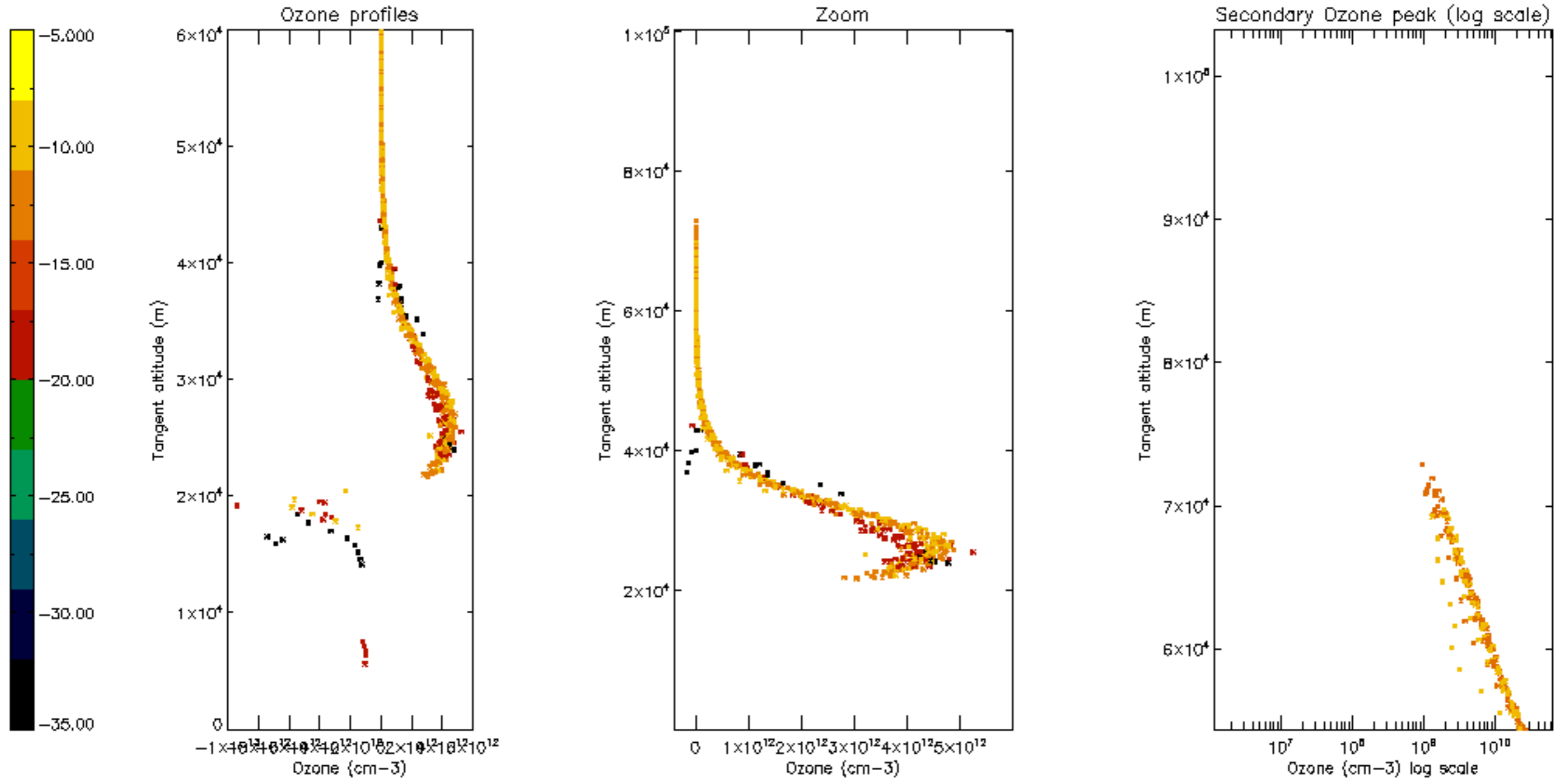
Percentage of saturation errors per profile

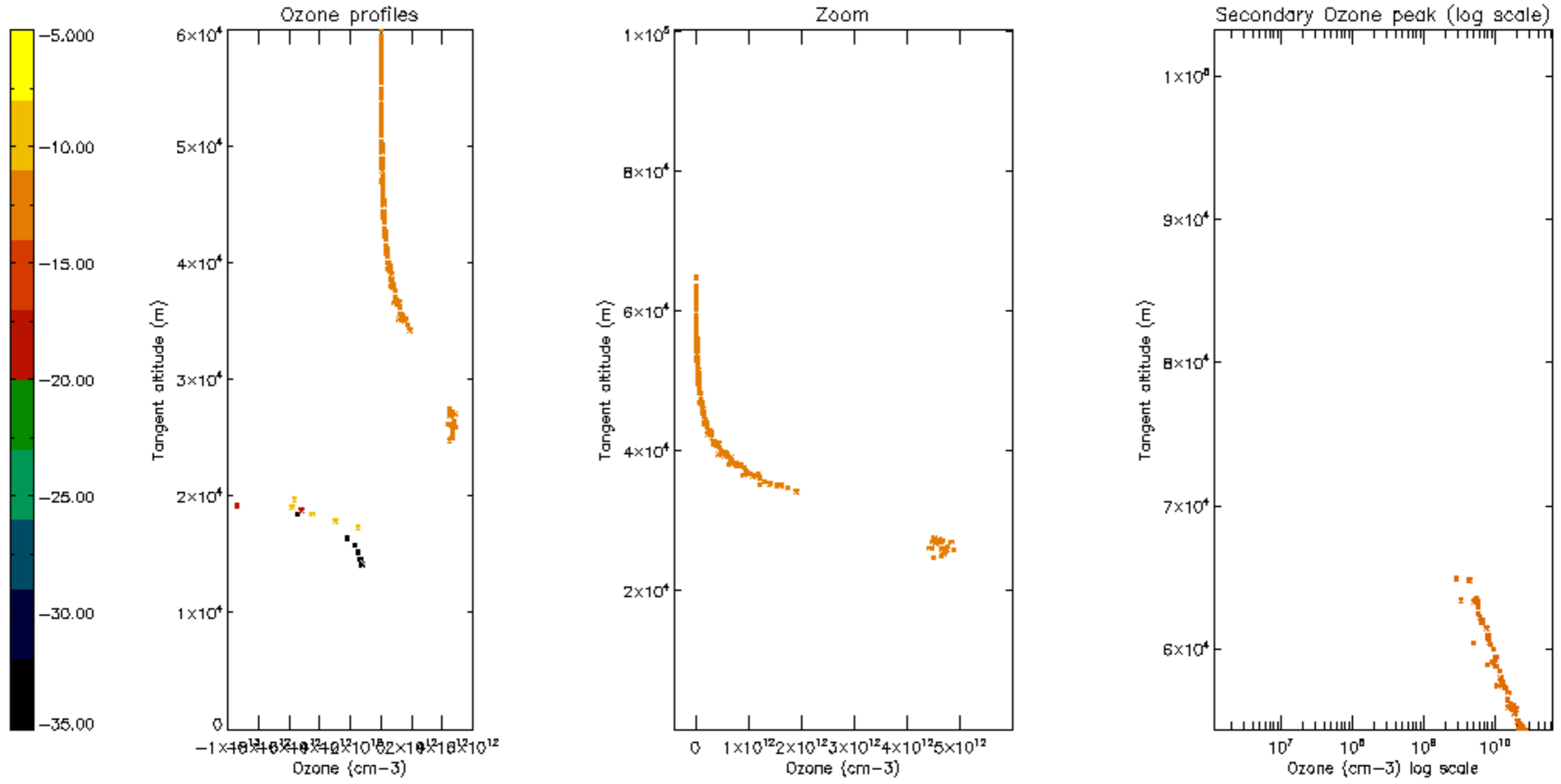


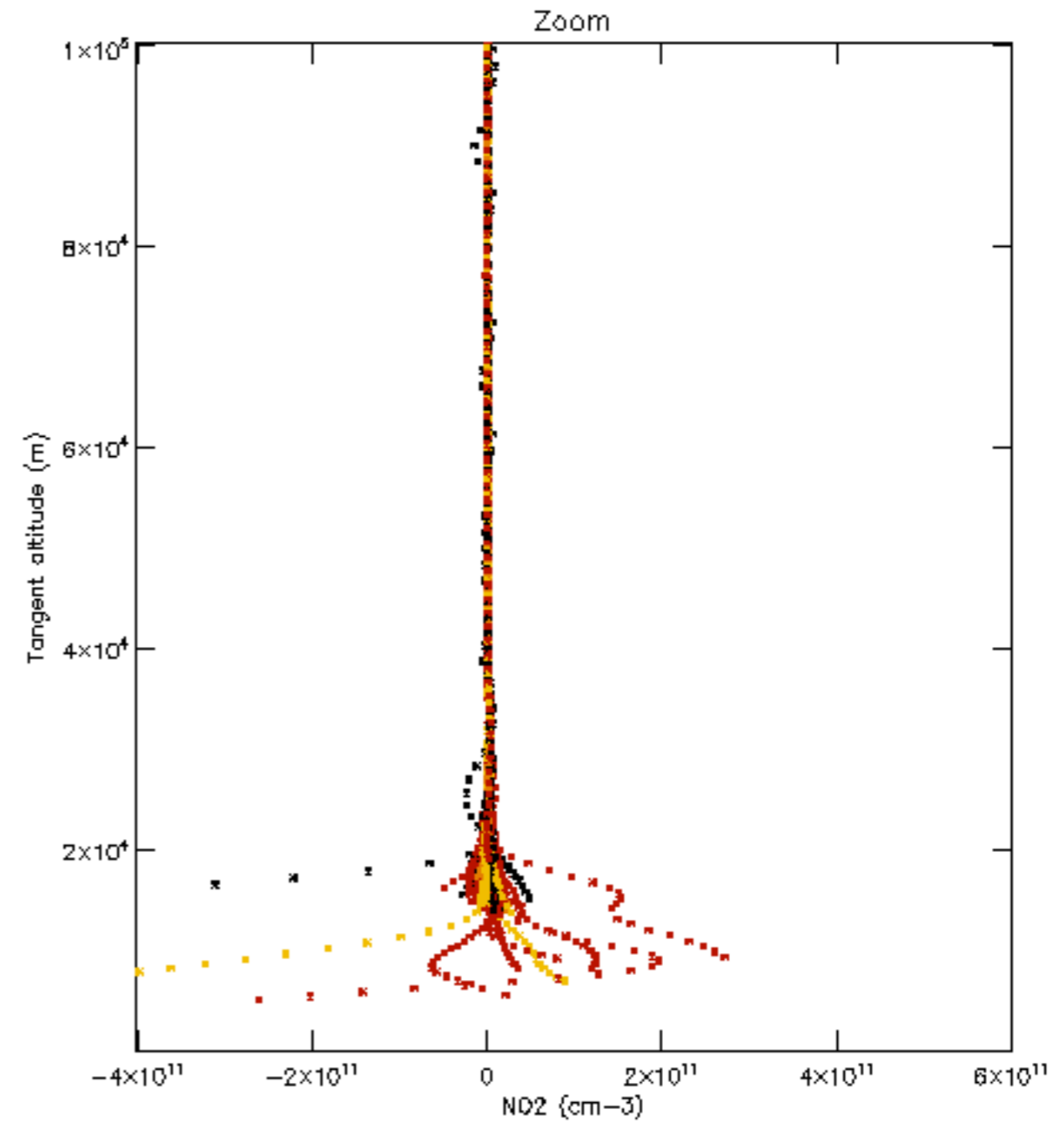
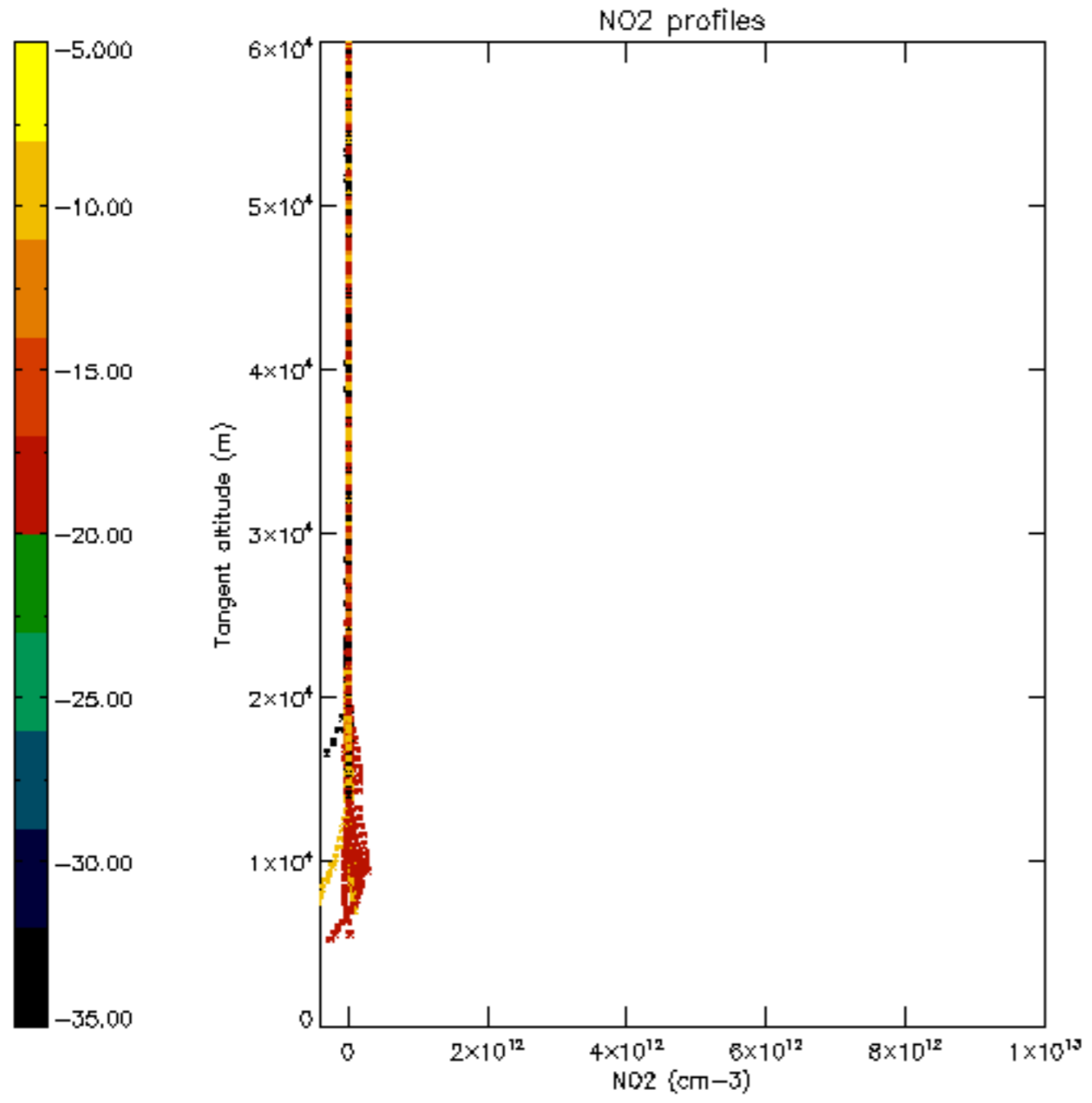


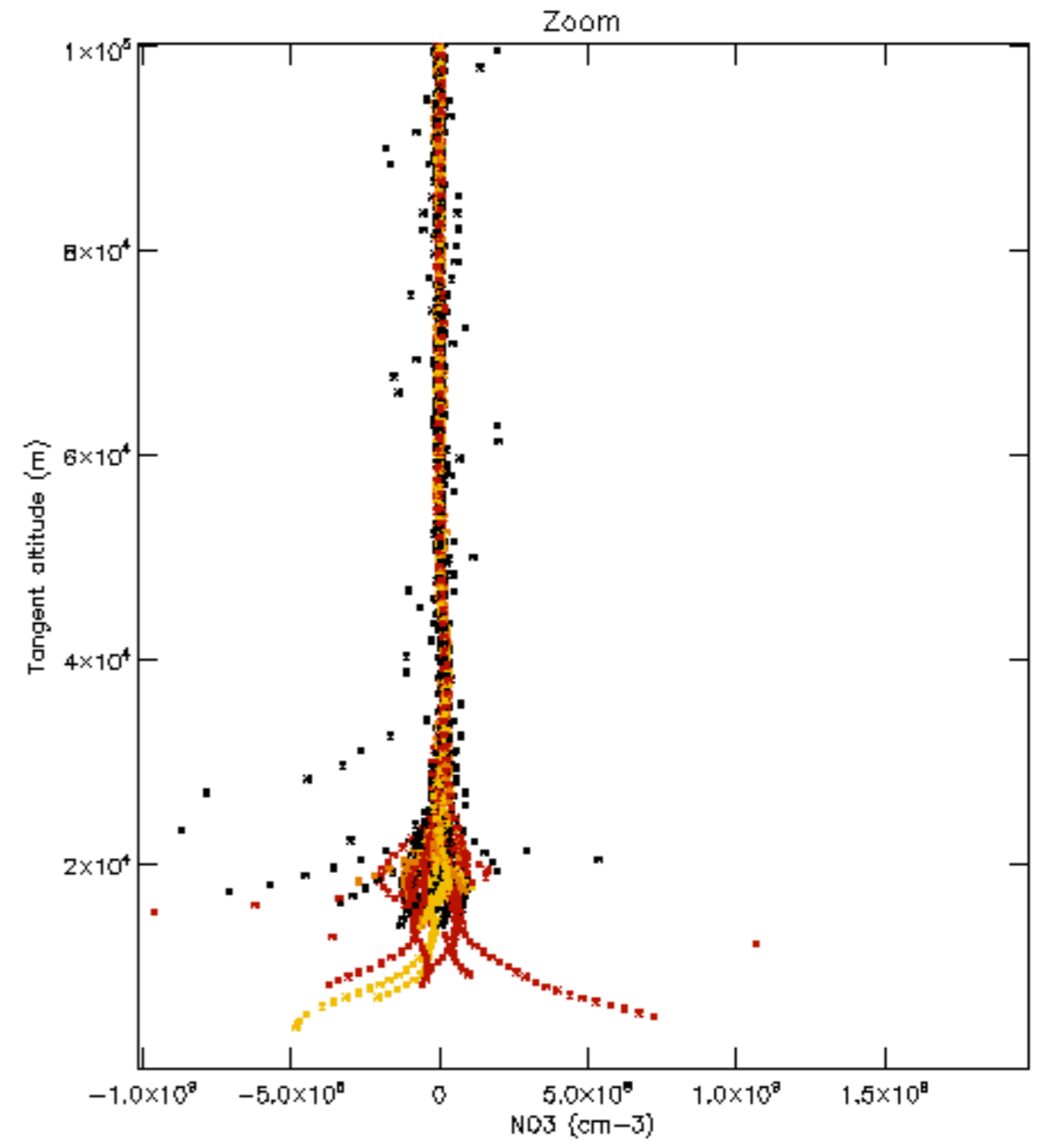
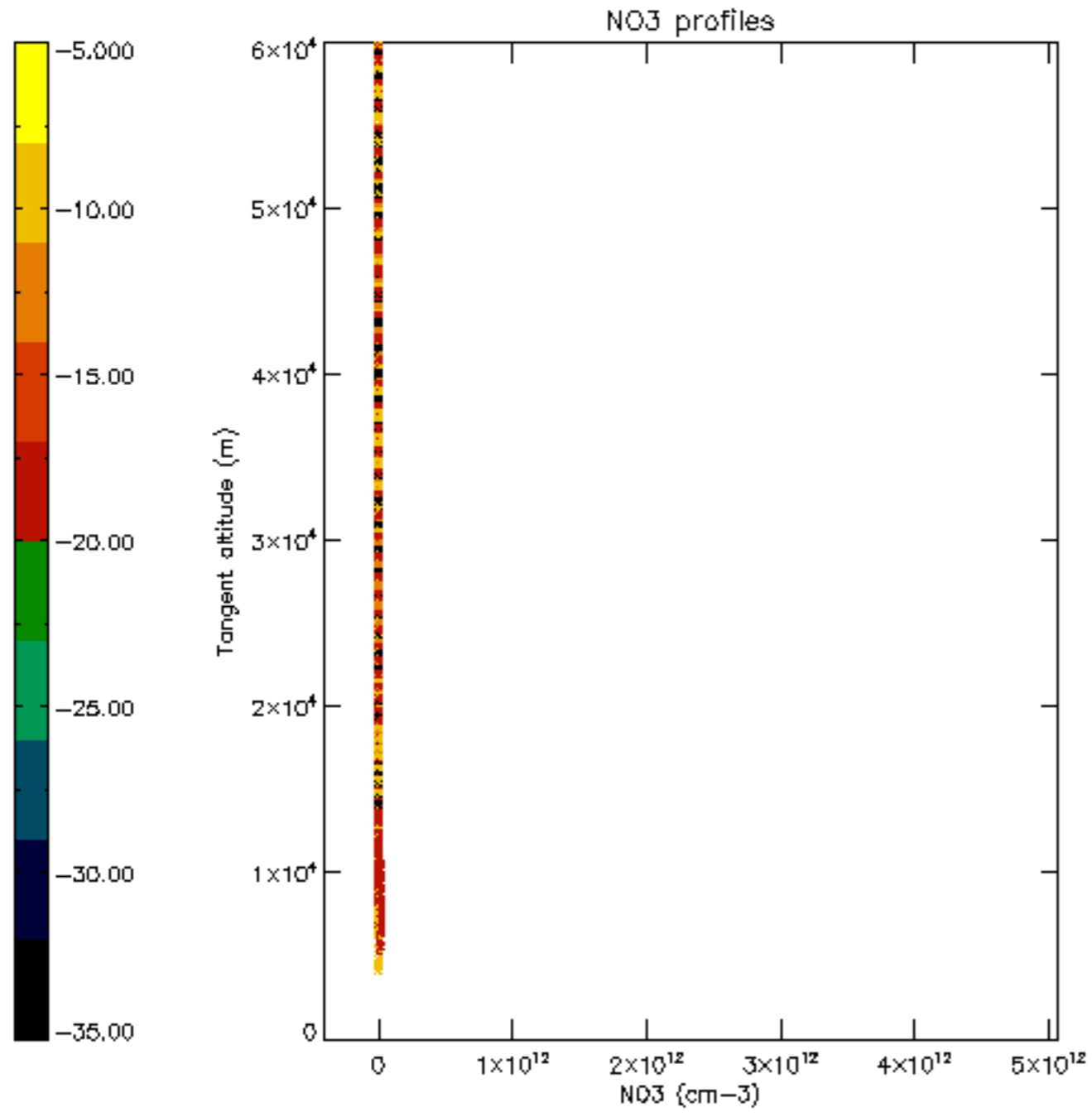


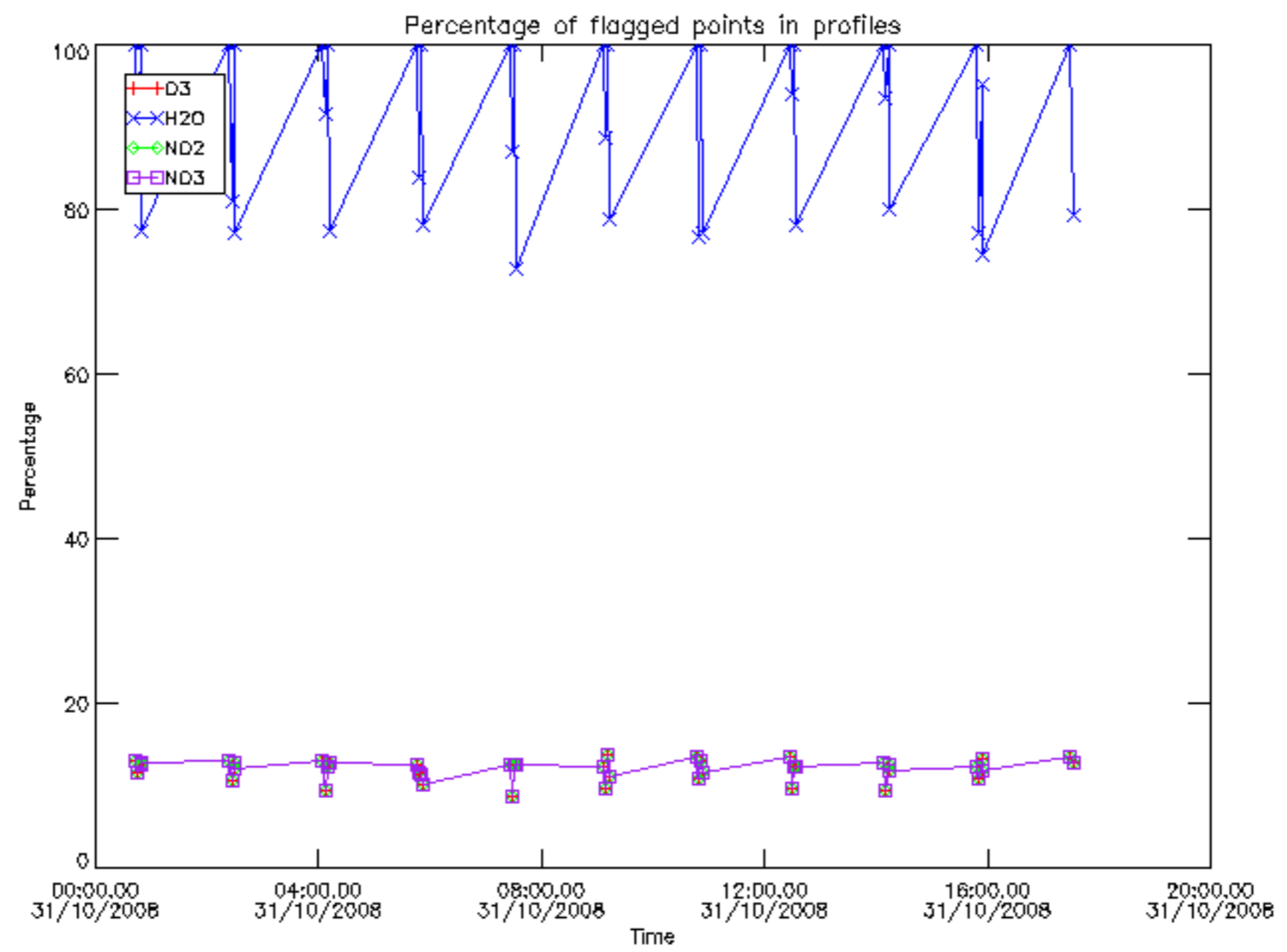




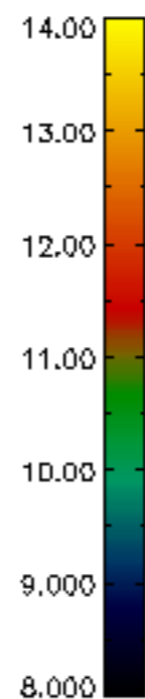
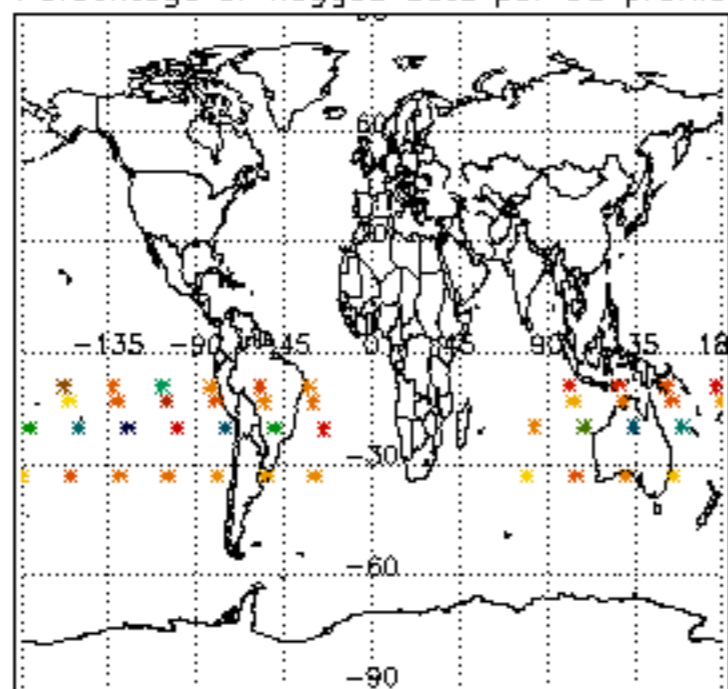




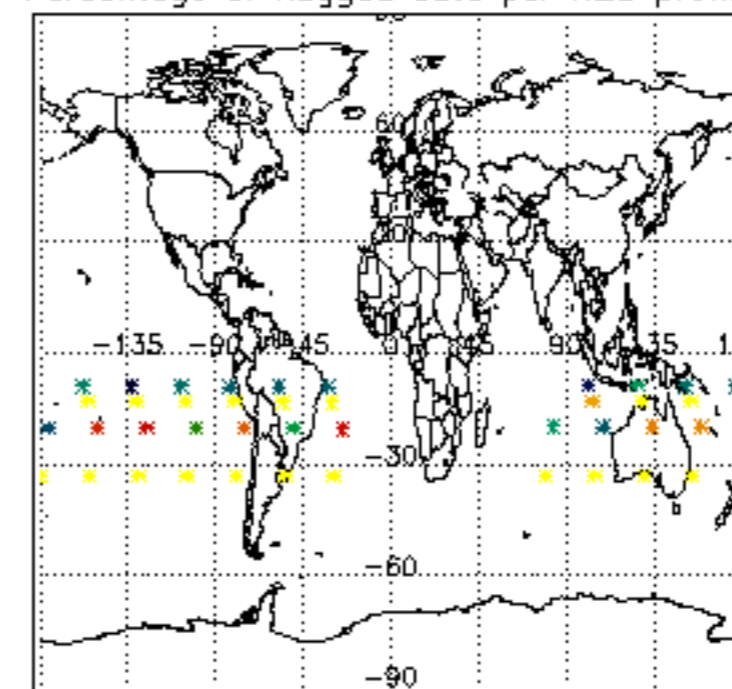




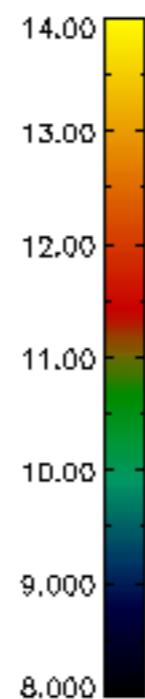
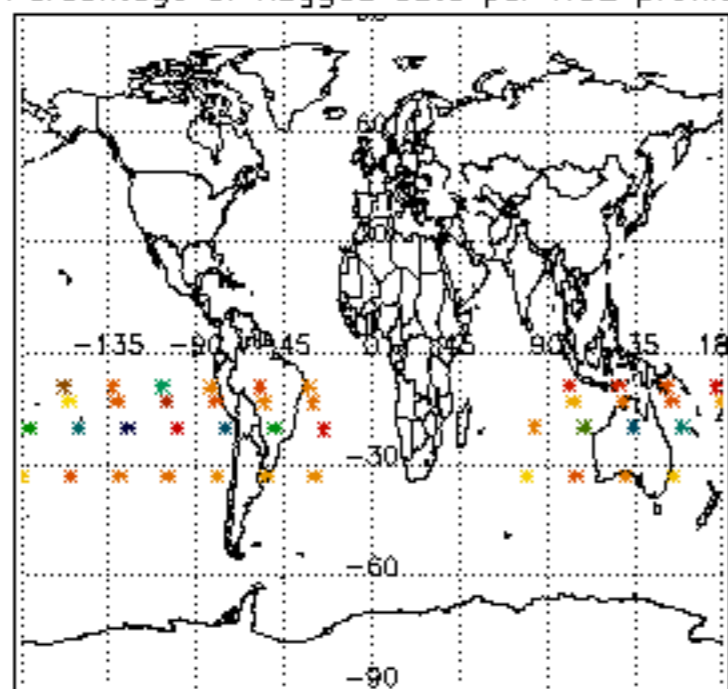
Percentage of flagged data per D3 profile



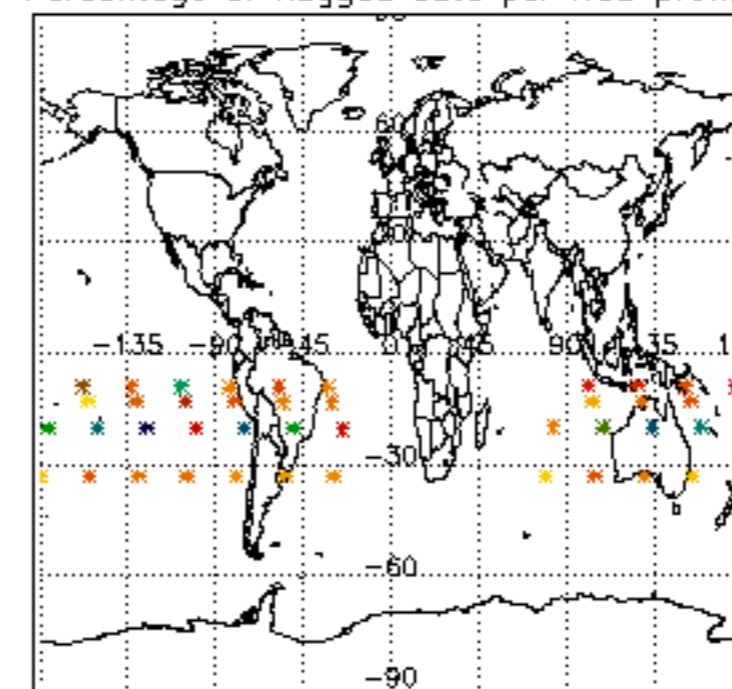
Percentage of flagged data per H2O profile

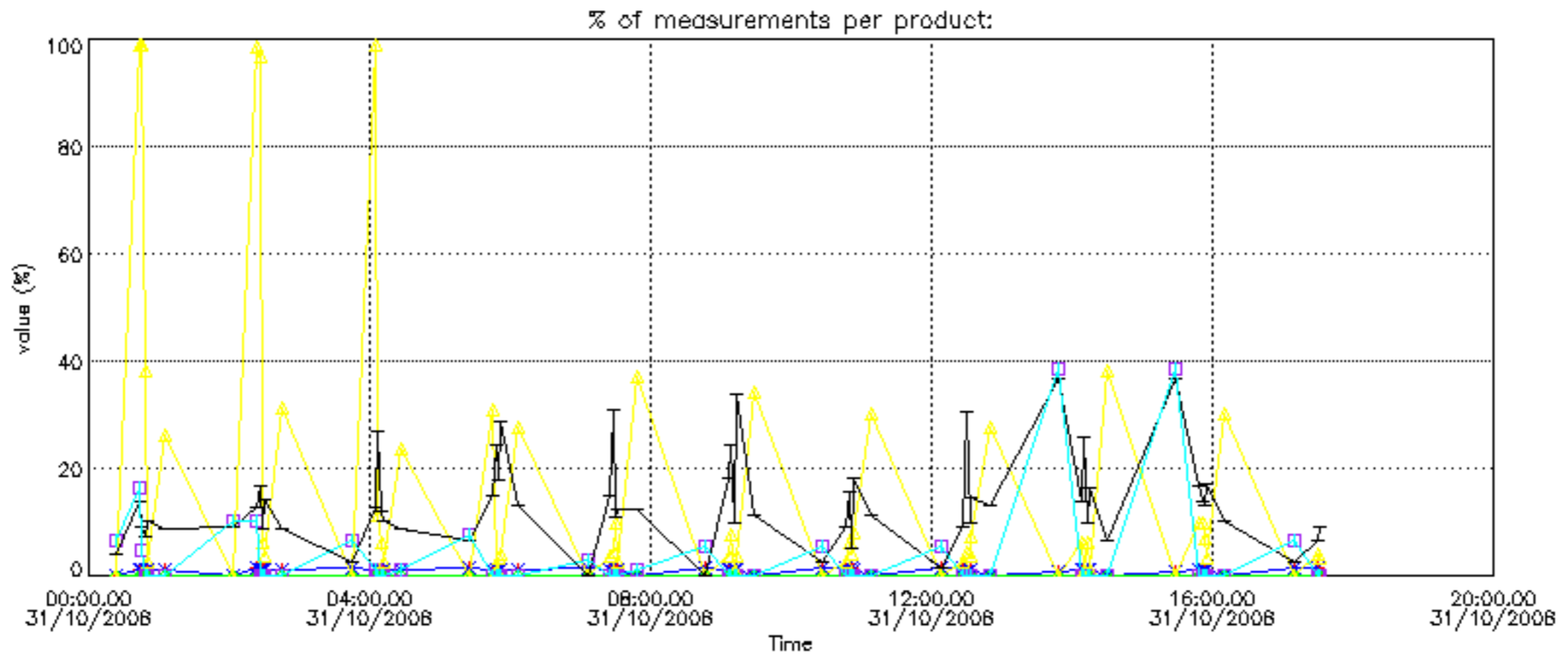


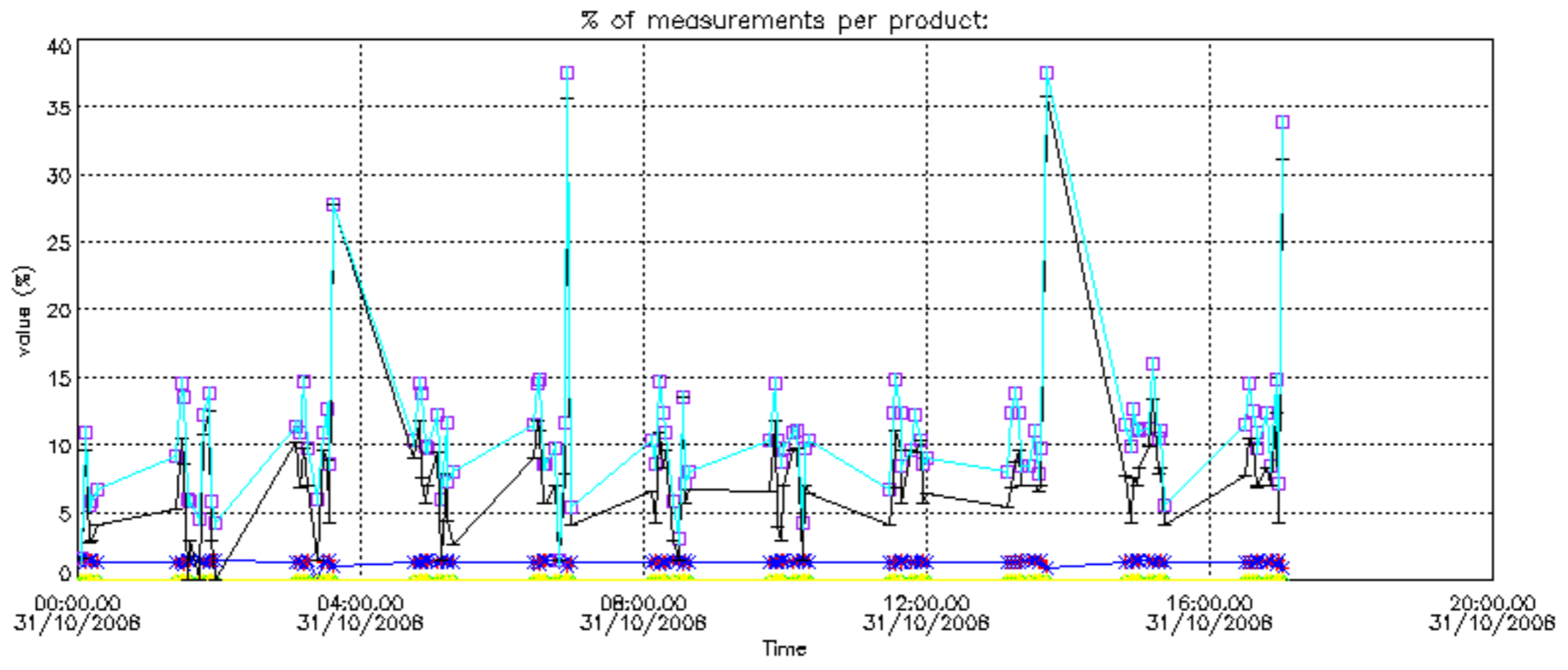
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

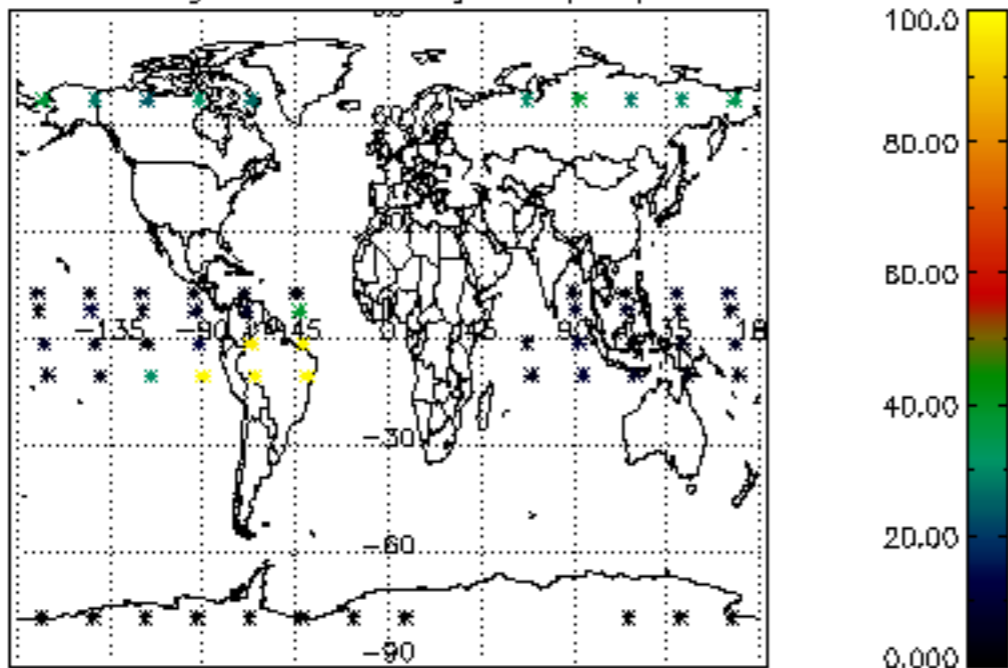




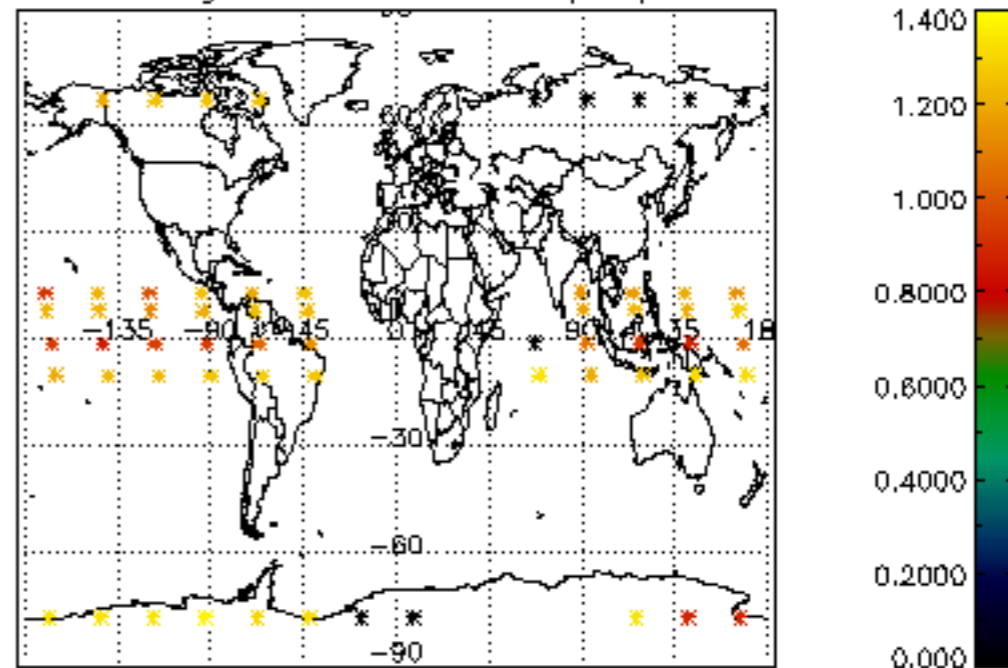




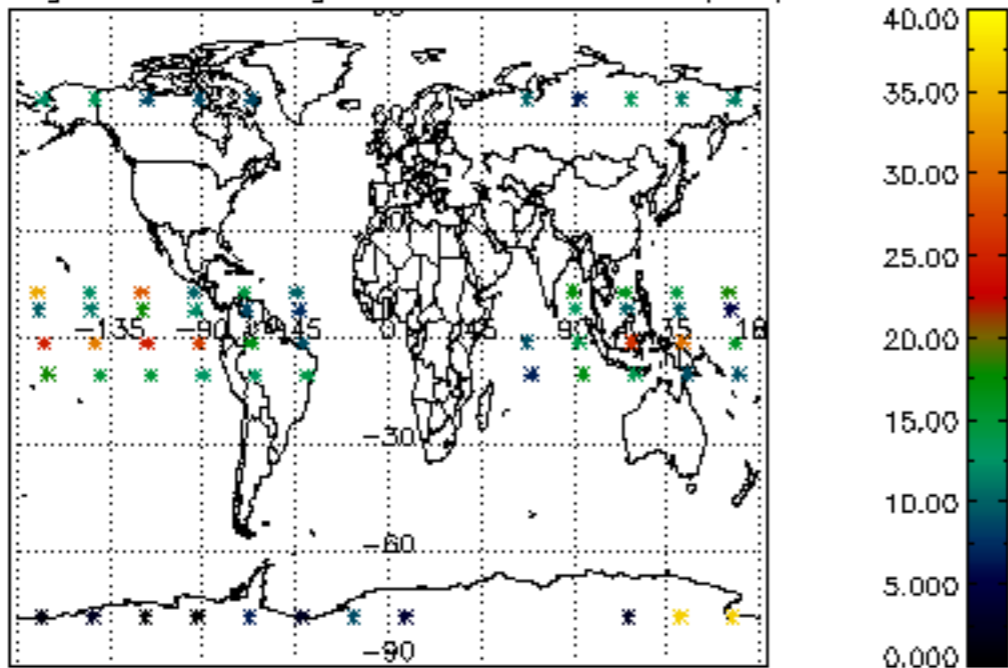
Percentage of cosmic ray hits per profile



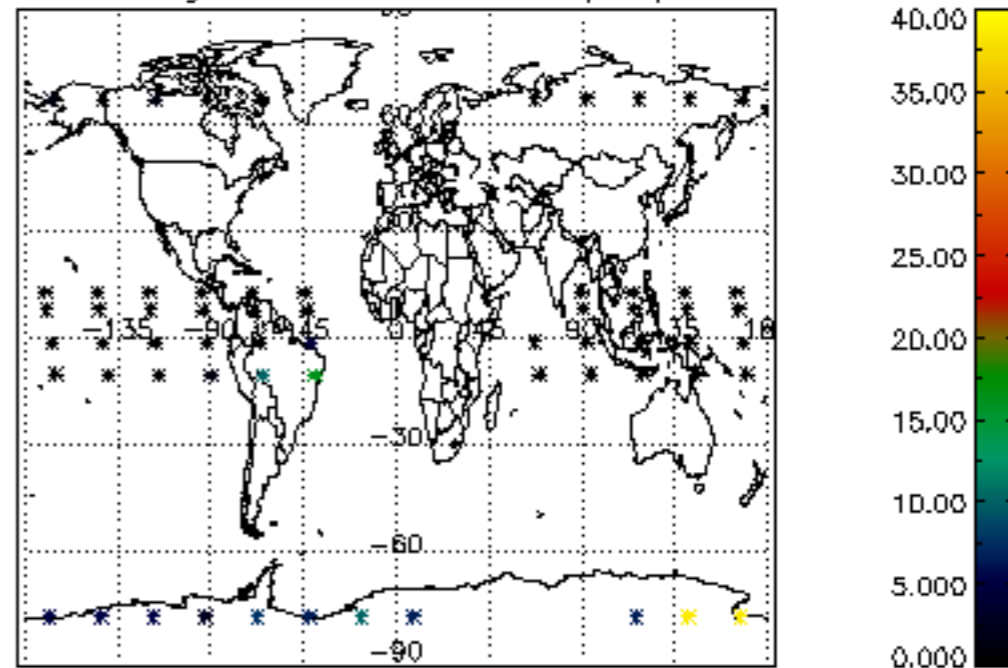
Percentage of datation errors per profile



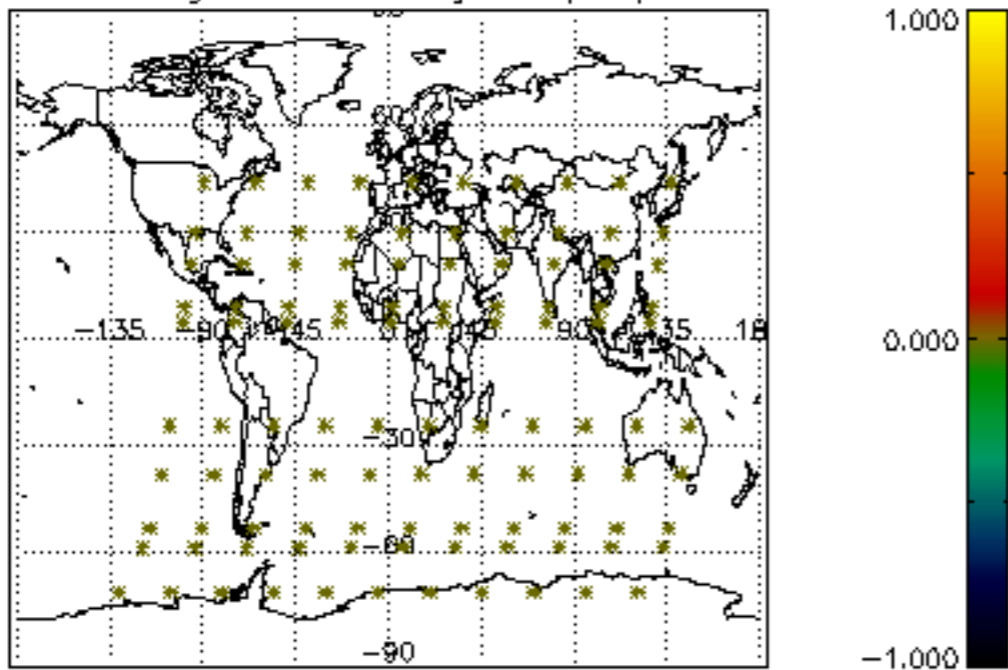
Percentage of star falling outside central band per profile



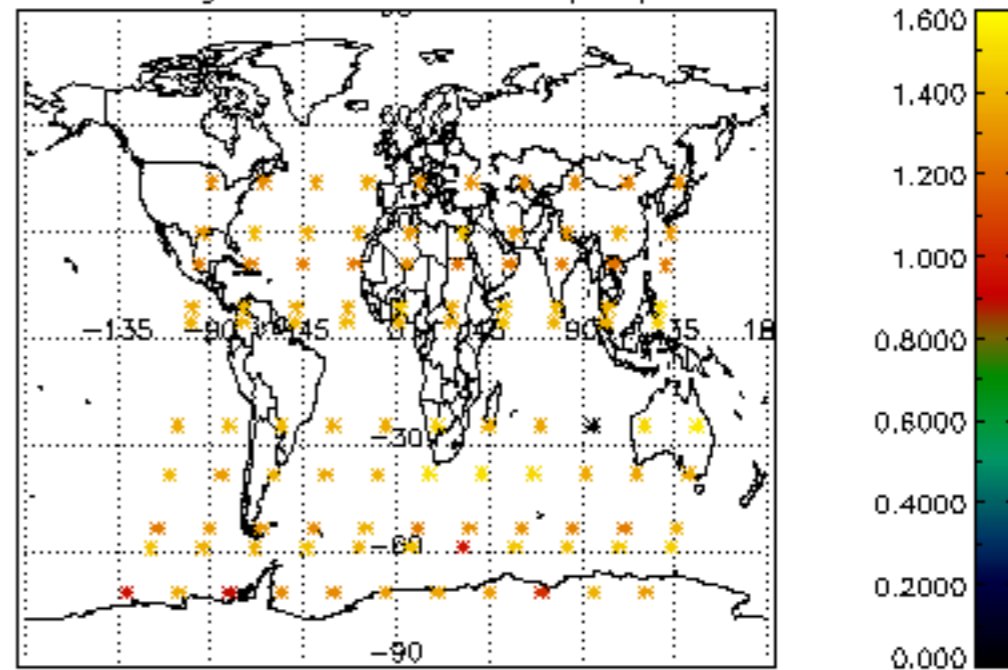
Percentage of saturation errors per profile



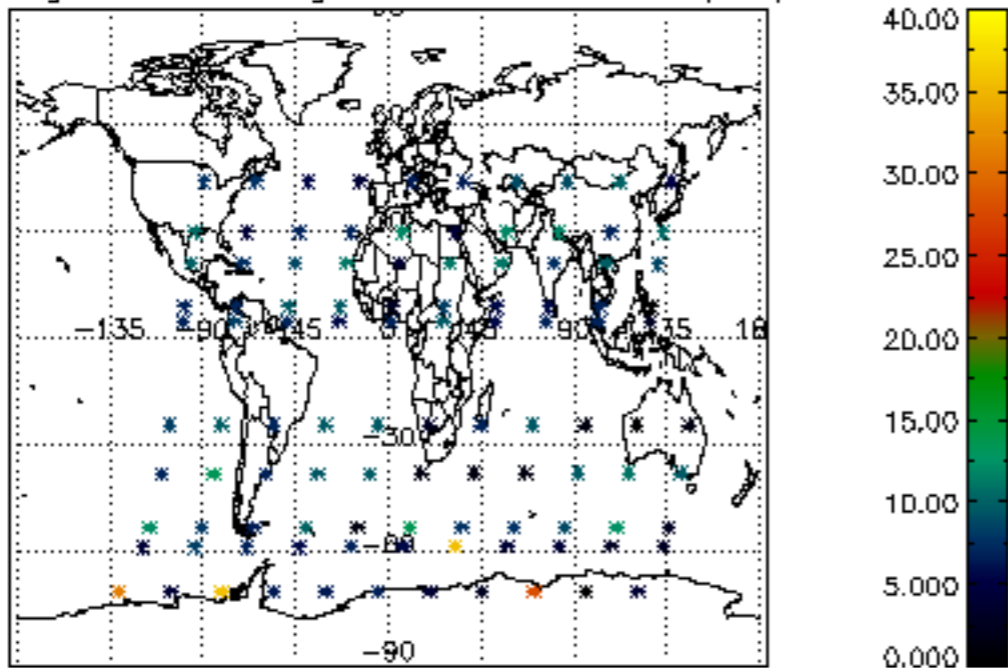
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

