

# 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	23APR2013 11:49:34
Data source version	GOMOS/6.01
Start time of products	21-11-2007 (21NOV2007 00:00:00)
Stop time of products	22-11-2007 (22NOV2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	312
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__2PRFIN20071121_000859_000000392063_00317_29930_3133.N1	21-NOV-2007 00:08:59	Straylight	39.000	157	The1Eri	2.9060	9300.0	78	29930	No
2	GOM_NL__2PRFIN20071121_002137_000000422063_00317_29930_3134.N1	21-NOV-2007 00:21:37	Twilight	42.000	94	92Alp Cet	2.5260	3100.0	84	29930	No
3	GOM_NL__2PRFIN20071121_002635_000000362063_00317_29930_3135.N1	21-NOV-2007 00:26:35	Bright	36.000	105	6Bet Ari	2.6450	8900.0	72	29930	No
4	GOM_NL__2PRFIN20071121_003027_000000352063_00317_29930_3136.N1	21-NOV-2007 00:30:27	Bright	34.500	173	4Bet Tri	3.0040	8900.0	69	29930	No
5	GOM_NL__2PRFIN20071121_003231_000000362063_00317_29930_3137.N1	21-NOV-2007 00:32:31	Bright	35.500	73	57Gam1And	2.2600	13100.	71	29930	No
6	GOM_NL__2PRFIN20071121_003601_000000382063_00317_29930_3138.N1	21-NOV-2007 00:36:01	Bright	37.500	160	23Gam Per	2.9300	4700.0	75	29930	No
7	GOM_NL__2PRFIN20071121_003739_000000352063_00317_29930_3139.N1	21-NOV-2007 00:37:39	Bright	35.000	110	37Del Cas	2.6780	8900.0	70	29930	No
8	GOM_NL__2PRFIN20071121_004545_000000332063_00317_29930_3140.N1	21-NOV-2007 00:45:45	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	29930	No
9	GOM_NL__2PRFIN20071121_005015_000000372063_00317_29930_3141.N1	21-NOV-2007 00:50:15	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	29930	No
10	GOM_NL__2PRFIN20071121_005545_000000382063_00317_29930_3142.N1	21-NOV-2007 00:55:45	Bright	37.500	32	77Eps UMa	1.7630	11000.	75	29930	No
11	GOM_NL__2PRFIN20071121_005732_000000522063_00317_29930_3143.N1	21-NOV-2007 00:57:32	Bright	52.000	39	85Eta UMa	1.8540	24000.	104	29930	No
12	GOM_NL__2PRFIN20071121_010100_000000362063_00317_29930_3144.N1	21-NOV-2007 01:01:00	Bright	36.000	152	12Alp2CVn	2.8900	11000.	72	29930	No
13	GOM_NL__2PRFIN20071121_010608_000000332063_00317_29930_3145.N1	21-NOV-2007 01:06:08	Bright	32.500	111	8Eta Boo	2.6800	6000.0	65	29930	No
14	GOM_NL__2PRFIN20071121_010855_000000362063_00317_29930_3146.N1	21-NOV-2007 01:08:55	Bright	36.000	138	47Eps Vir	2.8280	4700.0	72	29930	No
15	GOM_NL__2PRFIN20071121_011251_000000392063_00317_29930_3147.N1	21-NOV-2007 01:12:51	Bright	39.000	121	29Gam Vir	2.7400	7200.0	78	29930	No
16	GOM_NL__2PRFIN20071121_011804_000000412063_00317_29930_3148.N1	21-NOV-2007 01:18:04	Twilight	41.000	100	4Gam Crv	2.5800	13100.	82	29930	No
17	GOM_NL__2PRFIN20071121_011936_000000402063_00317_29930_3149.N1	21-NOV-2007 01:19:36	Twilight	40.000	171	2Eps Crv	3.0010	4250.0	80	29930	No
18	GOM_NL__2PRFIN20071121_012532_000000402063_00317_29930_3150.N1	21-NOV-2007 01:25:32	Dark	40.000	64	Gam Cen	2.2000	10600.	80	29930	No
19	GOM_NL__2PRFIN20071121_012747_000000442063_00317_29930_3151.N1	21-NOV-2007 01:27:47	Dark	43.500	26	Gam Cru	1.6240	2900.0	87	29930	No
20	GOM_NL__2PRFIN20071121_013139_000000362063_00318_29931_3149.N1	21-NOV-2007 01:31:39	Dark	36.000	124	The Car	2.7640	30000.	72	29931	No
21	GOM_NL__2PRFIN20071121_013431_000000382063_00318_29931_3150.N1	21-NOV-2007 01:34:31	Dark	37.500	29	Bet Car	1.6720	10200.	75	29931	No
22	GOM_NL__2PRFIN20071121_013551_000000422063_00318_29931_3151.N1	21-NOV-2007 01:35:51	Dark	42.000	41	Eps Car	1.8600	4100.0	84	29931	No
23	GOM_NL__2PRFIN20071121_014936_000000382063_00318_29931_3152.N1	21-NOV-2007 01:49:36	Straylight	37.500	157	The1Eri	2.9060	9300.0	75	29931	No
24	GOM_NL__2PRFIN20071121_020212_000000442063_00318_29931_3153.N1	21-NOV-2007 02:02:12	Twilight	43.500	94	92Alp Cet	2.5260	3100.0	87	29931	No
25	GOM_NL__2PRFIN20071121_020711_000000372063_00318_29931_3154.N1	21-NOV-2007 02:07:11	Bright	36.500	105	6Bet Ari	2.6450	8900.0	73	29931	No
26	GOM_NL__2PRFIN20071121_021103_000000352063_00318_29931_3155.N1	21-NOV-2007 02:11:03	Bright	35.000	173	4Bet Tri	3.0040	8900.0	70	29931	No
27	GOM_NL__2PRFIN20071121_021307_000000392063_00318_29931_3156.N1	21-NOV-2007 02:13:07	Bright	38.500	73	57Gam1And	2.2600	13100.	77	29931	No
28	GOM_NL__2PRFIN20071121_021637_000000382063_00318_29931_3157.N1	21-NOV-2007 02:16:37	Bright	37.500	160	23Gam Per	2.9300	4700.0	75	29931	No
29	GOM_NL__2PRFIN20071121_021815_000000352063_00318_29931_3158.N1	21-NOV-2007 02:18:15	Bright	34.500	110	37Del Cas	2.6780	8900.0	69	29931	No
30	GOM_NL__2PRFIN20071121_022621_000000322063_00318_29931_3159.N1	21-NOV-2007 02:26:21	Bright	31.500	49	1Alp UMi	1.9900	6300.0	63	29931	No
31	GOM_NL__2PRFIN20071121_023050_000000372063_00318_29931_3160.N1	21-NOV-2007 02:30:50	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	29931	No
32	GOM_NL__2PRFIN20071121_023621_000000382063_00318_29931_3161.N1	21-NOV-2007 02:36:21	Bright	37.500	32	77Eps UMa	1.7630	11000.	75	29931	No
33	GOM_NL__2PRFIN20071121_023808_000000362063_00318_29931_3162.N1	21-NOV-2007 02:38:08	Bright	36.000	39	85Eta UMa	1.8540	24000.	72	29931	No
34	GOM_NL__2PRFIN20071121_024136_000000372063_00318_29931_3163.N1	21-NOV-2007 02:41:36	Bright	36.500	152	12Alp2CVn	2.8900	11000.	73	29931	No
35	GOM_NL__2PRFIN20071121_024644_000000332063_00318_29931_3164.N1	21-NOV-2007 02:46:44	Bright	33.000	111	8Eta Boo	2.6800	6000.0	66	29931	No
36	GOM_NL__2PRFIN20071121_024931_000000362063_00318_29931_3165.N1	21-NOV-2007 02:49:31	Bright	35.500	138	47Eps Vir	2.8280	4700.0	71	29931	No
37	GOM_NL__2PRFIN20071121_025328_000000392063_00318_29931_3166.N1	21-NOV-2007 02:53:28	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	29931	No
38	GOM_NL__2PRFIN20071121_025840_000000422063_00318_29931_3167.N1	21-NOV-2007 02:58:40	Twilight	41.500	100	4Gam Crv	2.5800	13100.	83	29931	No
39	GOM_NL__2PRFIN20071121_030013_000000462063_00318_29931_3168.N1	21-NOV-2007 03:00:13	Twilight	46.000	171	2Eps Crv	3.0010	4250.0	92	29931	No
40	GOM_NL__2PRFIN20071121_030609_000000412063_00318_29931_3169.N1	21-NOV-2007 03:06:09	Dark	40.500	64	Gam Cen	2.2000	10600.	81	29931	No
41	GOM_NL__2PRFIN20071121_030824_000000492063_00318_29931_3170.N1	21-NOV-2007 03:08:24	Dark	48.500	26	Gam Cru	1.6240	2900.0	97	29931	No
42	GOM_NL__2PRFIN20071121_031216_000000372063_00319_29932_3160.N1	21-NOV-2007 03:12:16	Dark	37.000	124	The Car	2.7640	30000.	74	29932	No







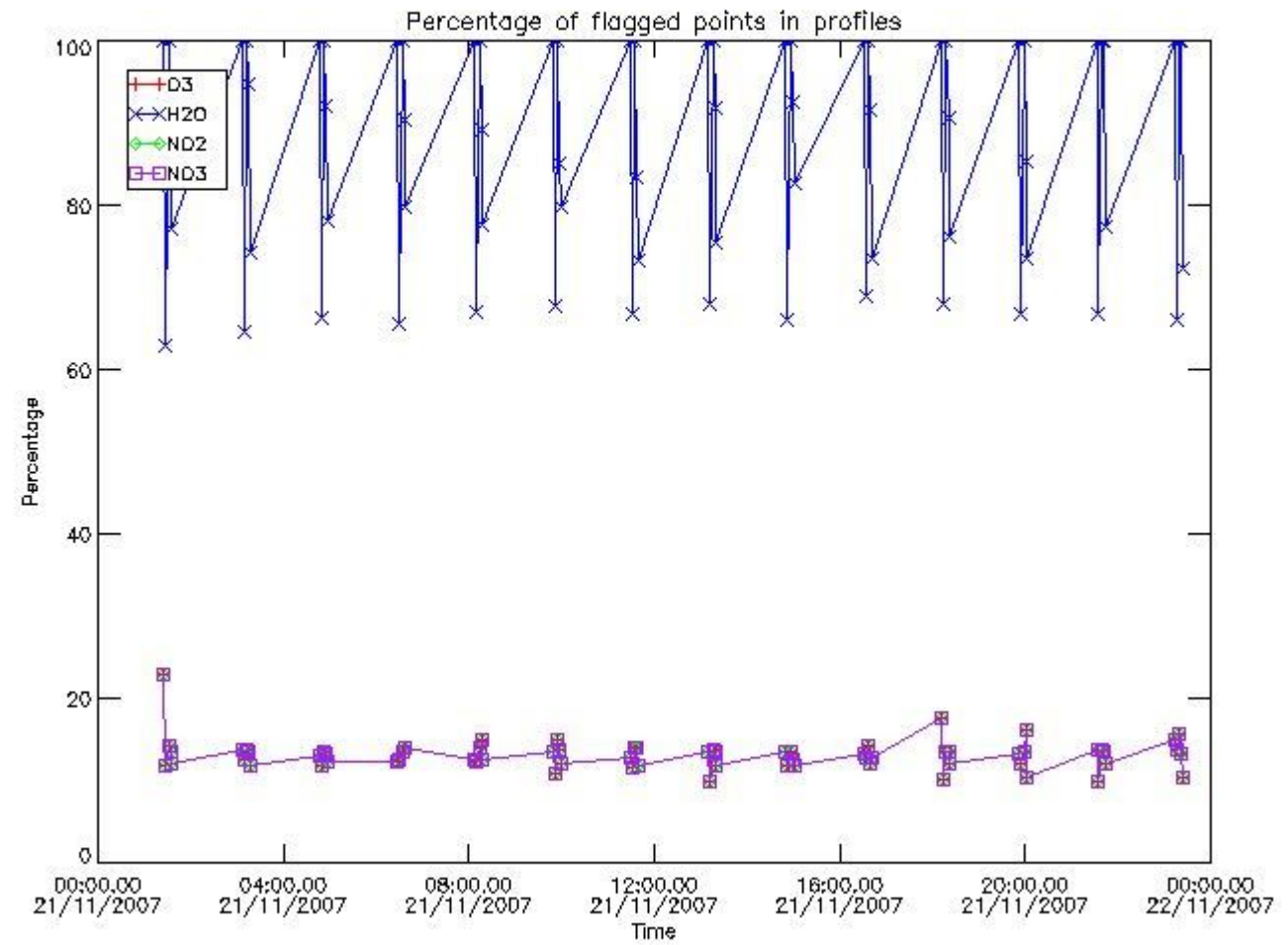


279	GOM_NL__2PRFIN20071121_212007_000000562063_00329_29942_3407.N1	21-NOV-2007 21:20:07	Bright	55.500	121	29Gam Vir	2.7400	7200.0	111	29942	No
280	GOM_NL__2PRFIN20071121_212521_000000442063_00329_29942_3408.N1	21-NOV-2007 21:25:21	Twilight	43.500	100	4Gam Crv	2.5800	13100.	87	29942	No
281	GOM_NL__2PRFIN20071121_212654_000000432063_00329_29942_3409.N1	21-NOV-2007 21:26:54	Twilight	42.500	171	2Eps Crv	3.0010	4250.0	85	29942	No
282	GOM_NL__2PRFIN20071121_213247_000000372063_00329_29942_3410.N1	21-NOV-2007 21:32:47	Dark	37.000	64	Gam Cen	2.2000	10600.	74	29942	No
283	GOM_NL__2PRFIN20071121_213502_000000522063_00329_29942_3411.N1	21-NOV-2007 21:35:02	Dark	51.500	26	Gam Cru	1.6240	2900.0	103	29942	No
284	GOM_NL__2PRFIN20071121_213856_000000372063_00330_29943_3405.N1	21-NOV-2007 21:38:56	Dark	37.000	124	The Car	2.7640	30000.	74	29943	No
285	GOM_NL__2PRFIN20071121_214147_000000382063_00330_29943_3406.N1	21-NOV-2007 21:41:47	Dark	38.000	29	Bet Car	1.6720	10200.	76	29943	No
286	GOM_NL__2PRFIN20071121_214309_000000432063_00330_29943_3407.N1	21-NOV-2007 21:43:09	Dark	42.500	41	Eps Car	1.8600	4100.0	85	29943	No
287	GOM_NL__2PRFIN20071121_215649_000000392063_00330_29943_3408.N1	21-NOV-2007 21:56:49	Straylight	38.500	157	The1Eri	2.9060	9300.0	77	29943	No
288	GOM_NL__2PRFIN20071121_220924_000000462063_00330_29943_3409.N1	21-NOV-2007 22:09:24	Twilight	45.500	94	92Alp Cet	2.5260	3100.0	91	29943	No
289	GOM_NL__2PRFIN20071121_221424_000000352063_00330_29943_3410.N1	21-NOV-2007 22:14:24	Bright	35.000	105	6Bet Ari	2.6450	8900.0	70	29943	No
290	GOM_NL__2PRFIN20071121_221815_000000352063_00330_29943_3411.N1	21-NOV-2007 22:18:15	Bright	35.000	173	4Bet Tri	3.0040	8900.0	70	29943	No
291	GOM_NL__2PRFIN20071121_222019_000000372063_00330_29943_3412.N1	21-NOV-2007 22:20:19	Bright	37.000	73	57Gam1And	2.2600	13100.	74	29943	No
292	GOM_NL__2PRFIN20071121_222345_000000372063_00330_29943_3413.N1	21-NOV-2007 22:23:45	Bright	36.500	160	23Gam Per	2.9300	4700.0	73	29943	No
293	GOM_NL__2PRFIN20071121_222528_000000362063_00330_29943_3414.N1	21-NOV-2007 22:25:28	Bright	35.500	110	37Del Cas	2.6780	8900.0	71	29943	No
294	GOM_NL__2PRFIN20071121_223332_000000362063_00330_29943_3415.N1	21-NOV-2007 22:33:32	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29943	No
295	GOM_NL__2PRFIN20071121_223803_000000352063_00330_29943_3416.N1	21-NOV-2007 22:38:03	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	29943	No
296	GOM_NL__2PRFIN20071121_224332_000000362063_00330_29943_3417.N1	21-NOV-2007 22:43:32	Bright	36.000	32	77Eps UMa	1.7630	11000.	72	29943	No
297	GOM_NL__2PRFIN20071121_224520_000000342063_00330_29943_3418.N1	21-NOV-2007 22:45:20	Bright	34.000	39	85Eta UMa	1.8540	24000.	68	29943	No
298	GOM_NL__2PRFIN20071121_224848_000000362063_00330_29943_3419.N1	21-NOV-2007 22:48:48	Bright	35.500	152	12Alp2CVn	2.8900	11000.	71	29943	No
299	GOM_NL__2PRFIN20071121_225357_000000332063_00330_29943_3420.N1	21-NOV-2007 22:53:57	Bright	33.000	111	8Eta Boo	2.6800	6000.0	66	29943	No
300	GOM_NL__2PRFIN20071121_225646_000000352063_00330_29943_3421.N1	21-NOV-2007 22:56:46	Bright	34.500	138	47Eps Vir	2.8280	4700.0	69	29943	No
301	GOM_NL__2PRFIN20071121_230044_000000562063_00330_29943_3422.N1	21-NOV-2007 23:00:44	Bright	56.000	121	29Gam Vir	2.7400	7200.0	112	29943	No
302	GOM_NL__2PRFIN20071121_230558_000000422063_00330_29943_3423.N1	21-NOV-2007 23:05:58	Twilight	41.500	100	4Gam Crv	2.5800	13100.	83	29943	No
303	GOM_NL__2PRFIN20071121_230731_000000432063_00330_29943_3424.N1	21-NOV-2007 23:07:31	Twilight	42.500	171	2Eps Crv	3.0010	4250.0	85	29943	No
304	GOM_NL__2PRFIN20071121_231323_000000382063_00330_29943_3425.N1	21-NOV-2007 23:13:23	Dark	37.500	64	Gam Cen	2.2000	10600.	75	29943	No
305	GOM_NL__2PRFIN20071121_231538_000000522063_00330_29943_3426.N1	21-NOV-2007 23:15:38	Dark	52.000	26	Gam Cru	1.6240	2900.0	104	29943	No
306	GOM_NL__2PRFIN20071121_231932_000000362063_00331_29944_3418.N1	21-NOV-2007 23:19:32	Dark	36.000	124	The Car	2.7640	30000.	72	29944	No
307	GOM_NL__2PRFIN20071121_232223_000000392063_00331_29944_3419.N1	21-NOV-2007 23:22:23	Dark	38.500	29	Bet Car	1.6720	10200.	77	29944	No
308	GOM_NL__2PRFIN20071121_232346_000000492063_00331_29944_3420.N1	21-NOV-2007 23:23:46	Dark	49.000	41	Eps Car	1.8600	4100.0	98	29944	No
309	GOM_NL__2PRFIN20071121_233725_000000372063_00331_29944_3421.N1	21-NOV-2007 23:37:25	Straylight	36.500	157	The1Eri	2.9060	9300.0	73	29944	No
310	GOM_NL__2PRFIN20071121_234959_000000462063_00331_29944_3422.N1	21-NOV-2007 23:49:59	Twilight	45.500	94	92Alp Cet	2.5260	3100.0	91	29944	No
311	GOM_NL__2PRFIN20071121_235459_000000362063_00331_29944_3423.N1	21-NOV-2007 23:54:59	Bright	35.500	105	6Bet Ari	2.6450	8900.0	71	29944	No
312	GOM_NL__2PRFIN20071121_235851_000000362063_00331_29944_3424.N1	21-NOV-2007 23:58:51	Bright	35.500	173	4Bet Tri	3.0040	8900.0	71	29944	No

### 3. Quality information per product

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

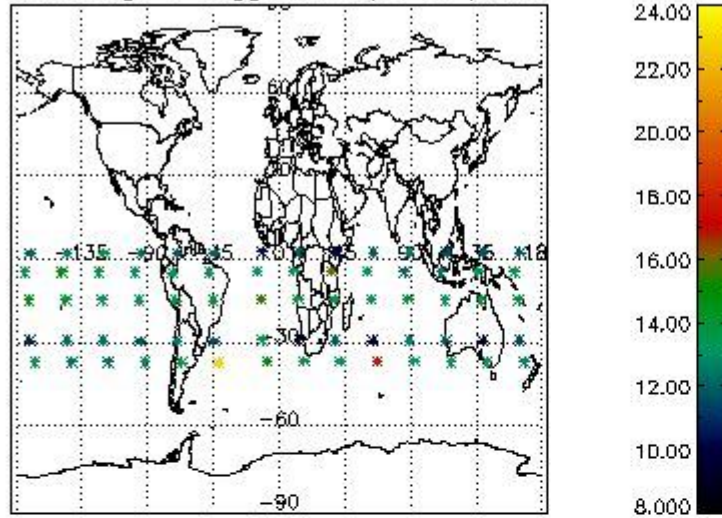
#### 3.1 Plot quality information per product (time dependant)



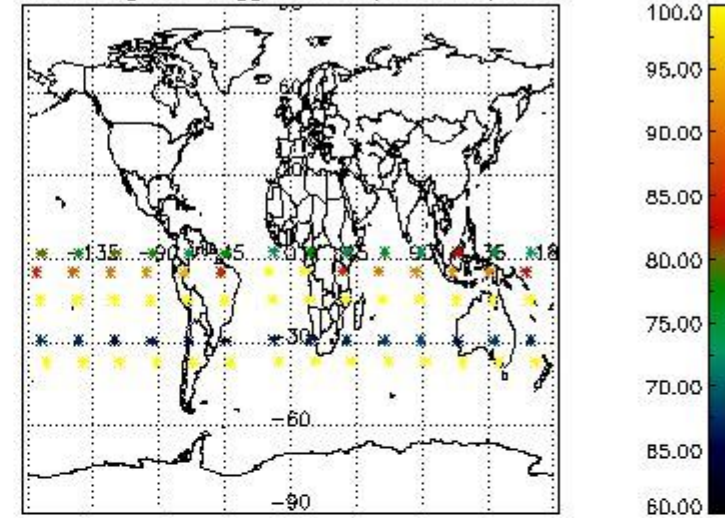
3.2 Plot quality information per product (world map)



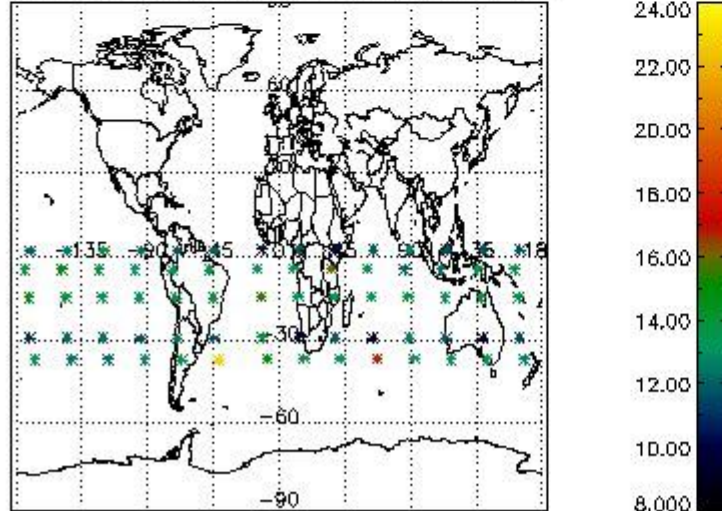
Percentage of flagged data per O3 profile



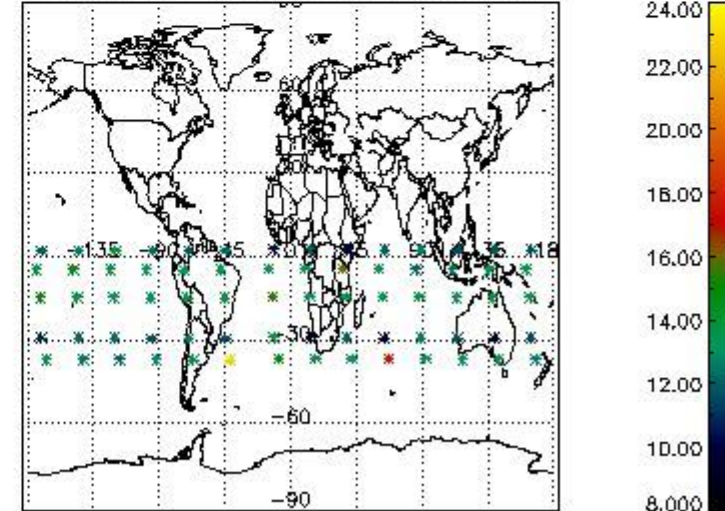
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

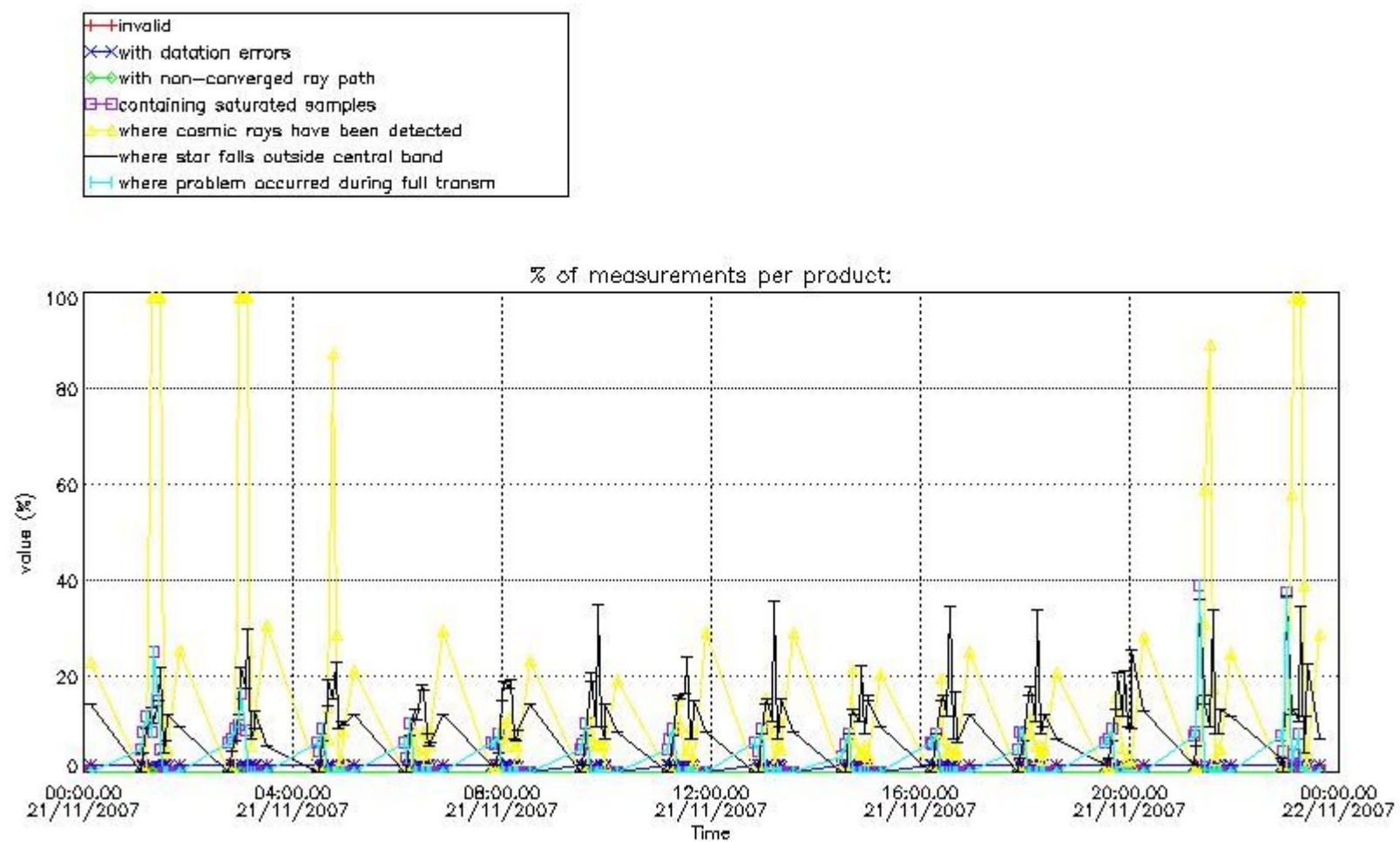


#### 4. Level 1 quality information per product

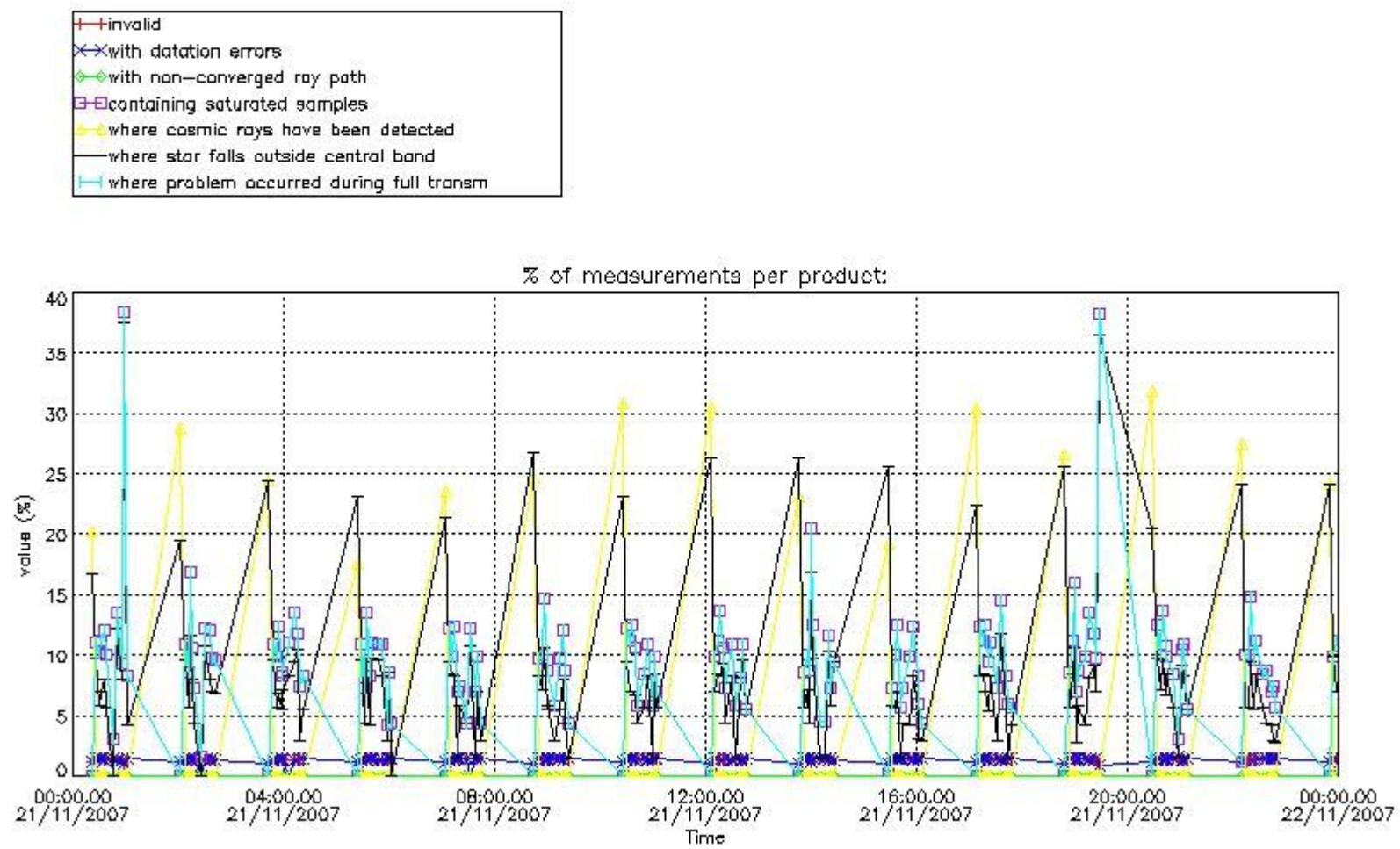
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

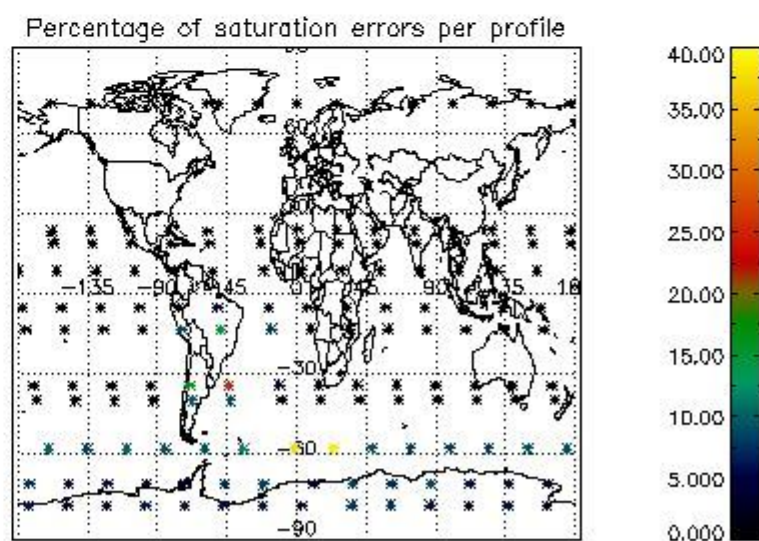
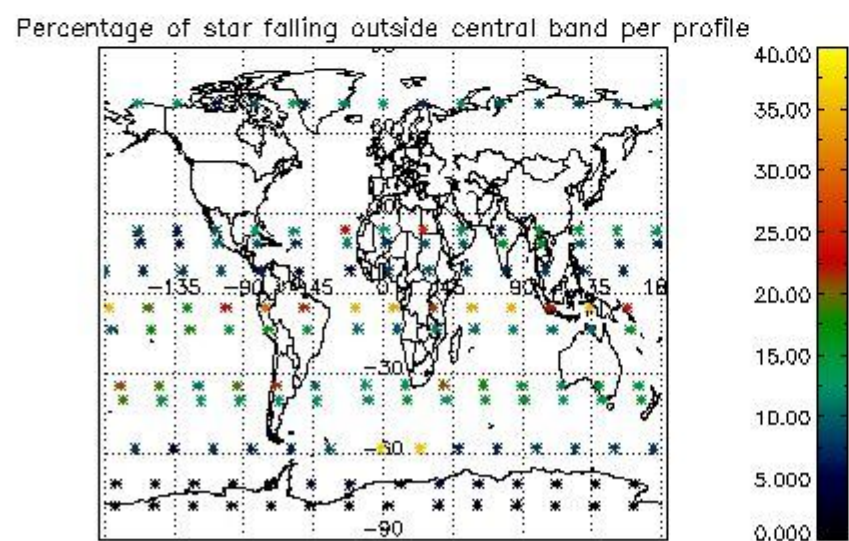
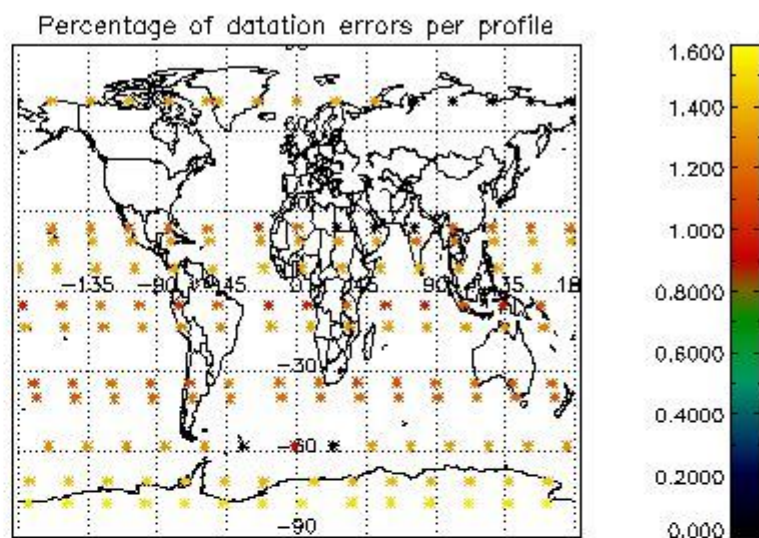
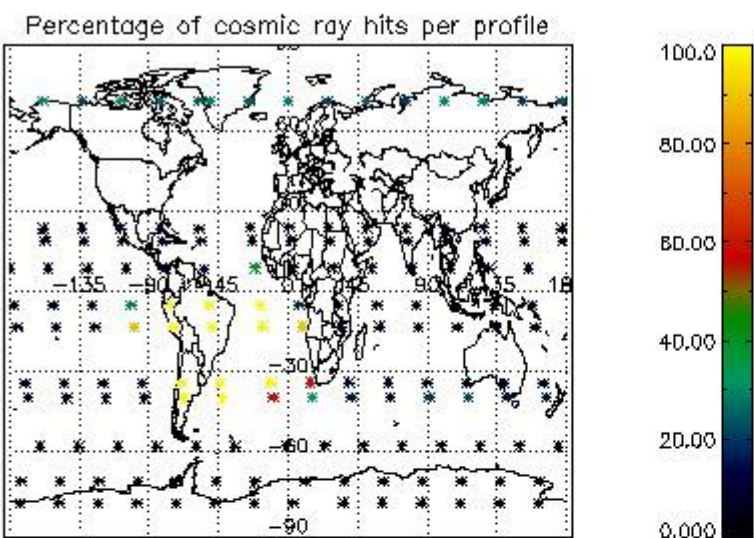


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



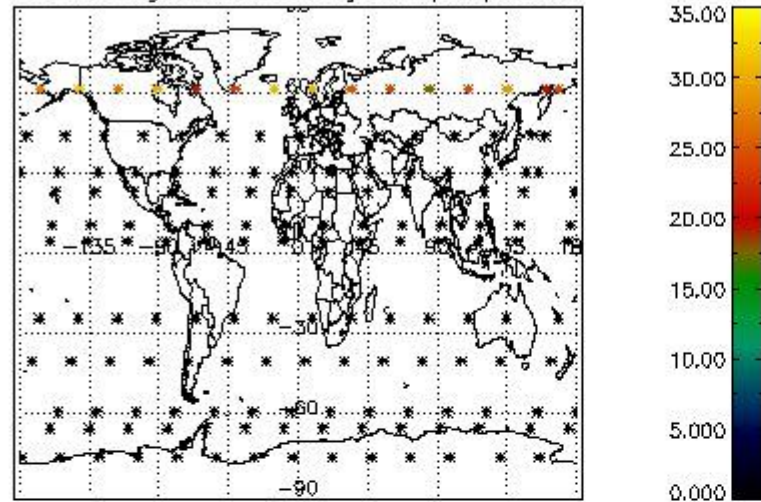
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

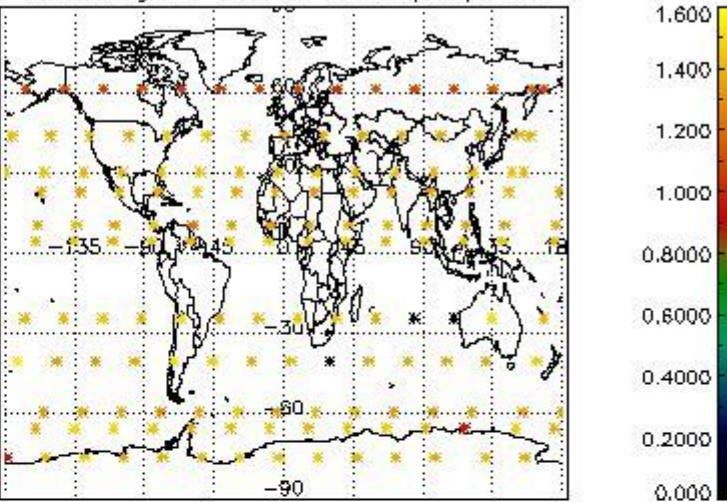


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

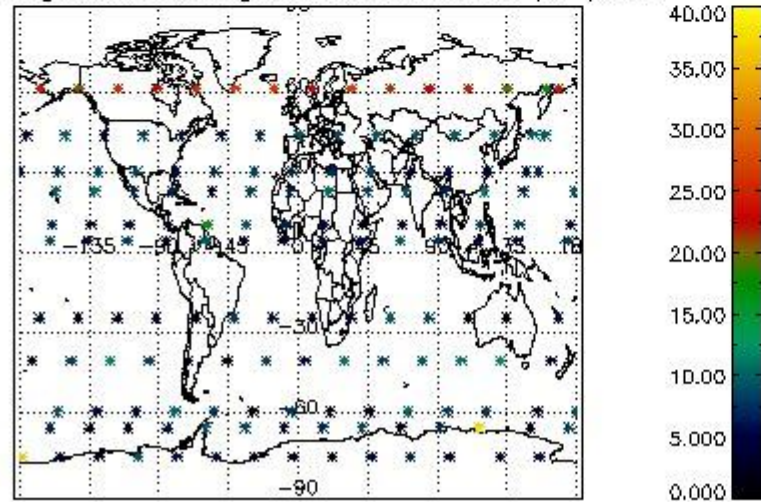
Percentage of cosmic ray hits per profile



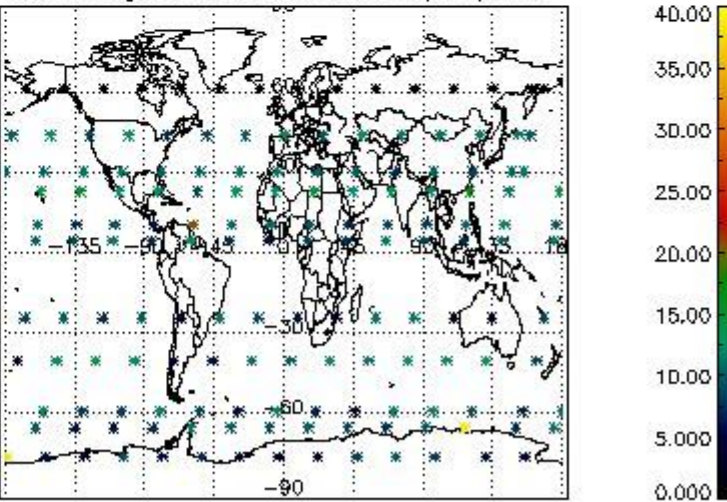
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/o3\_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

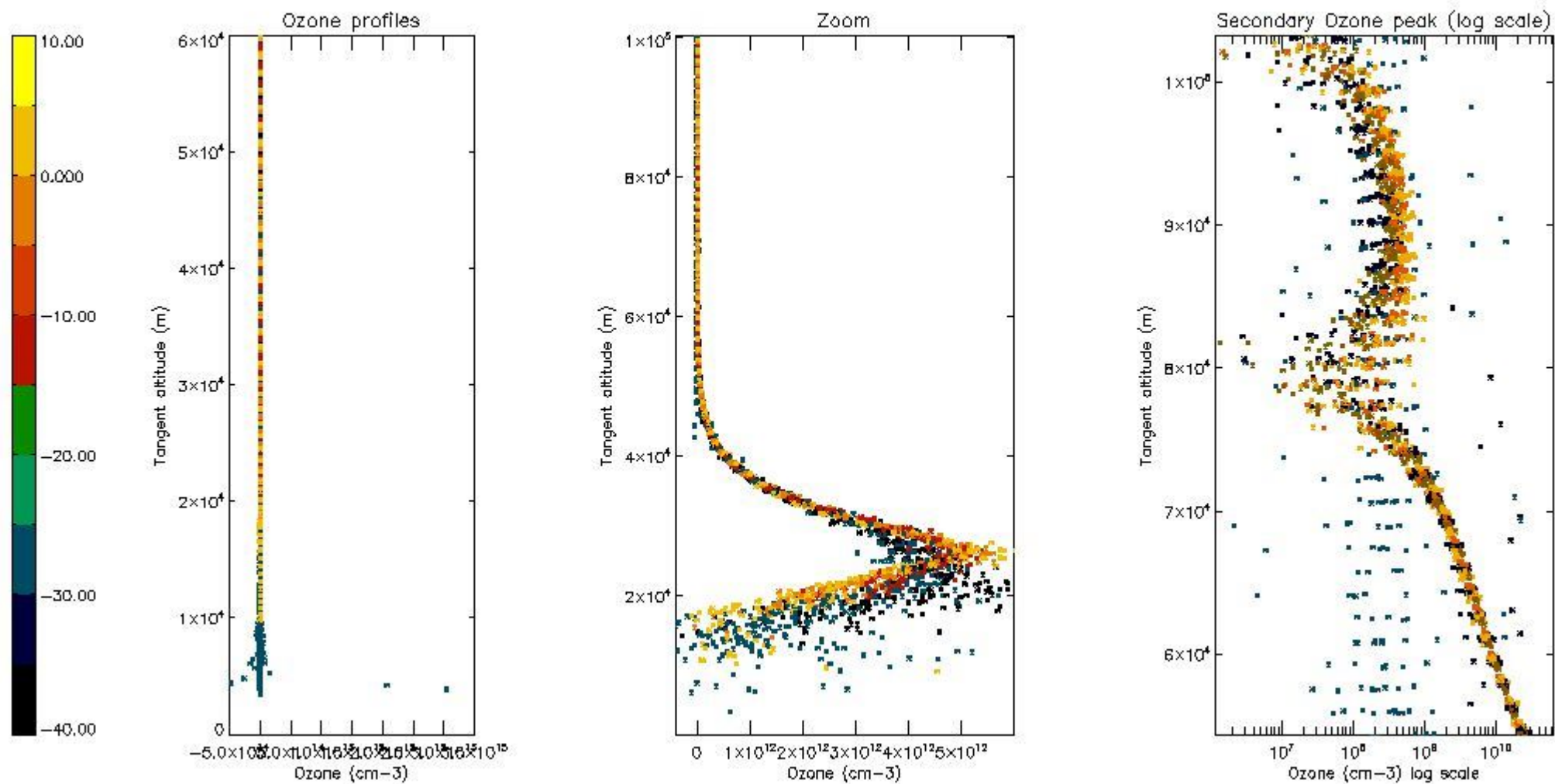
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	25
STD < 20	13

STD < 10	11
STD < 5	4

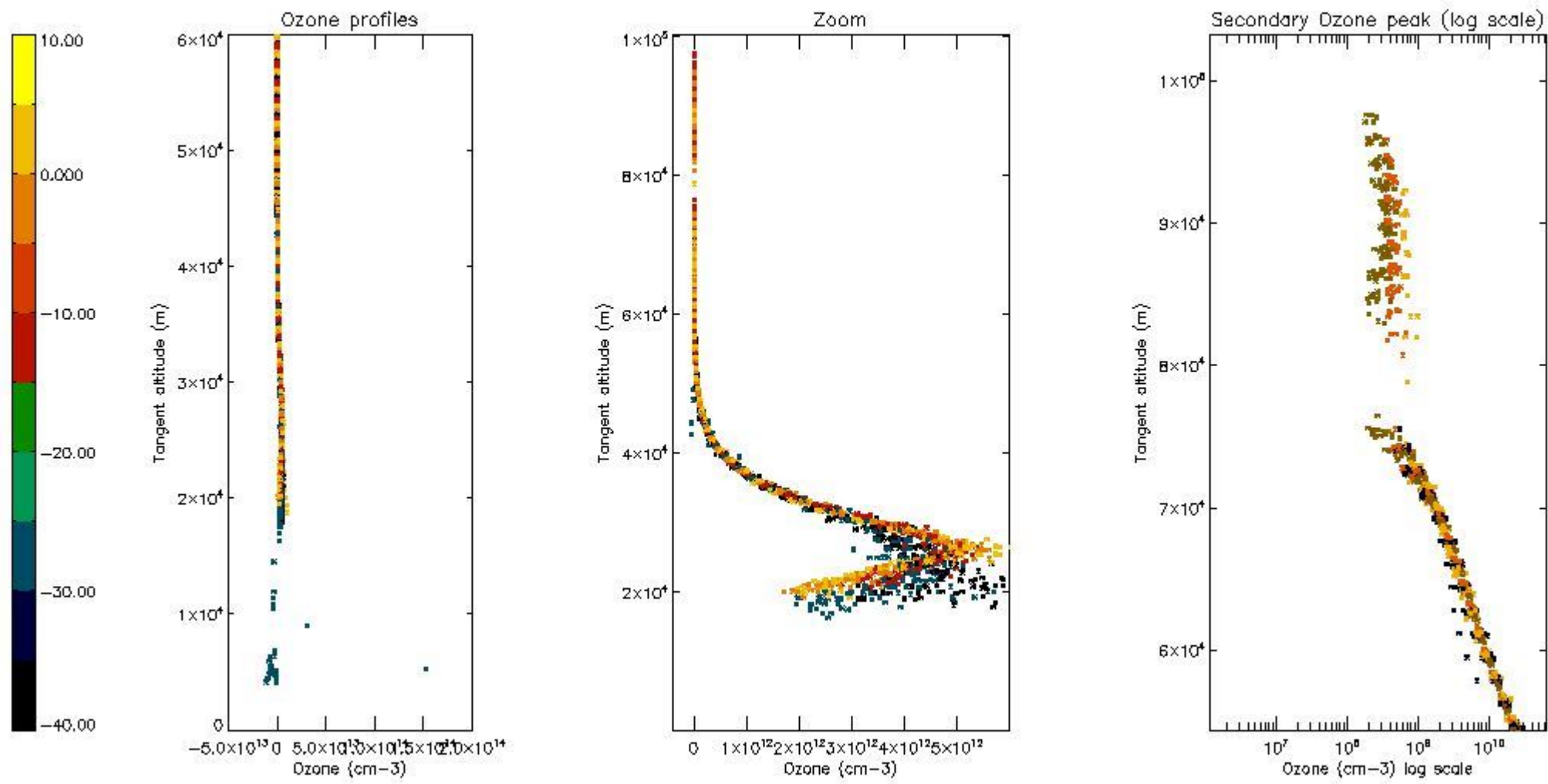
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



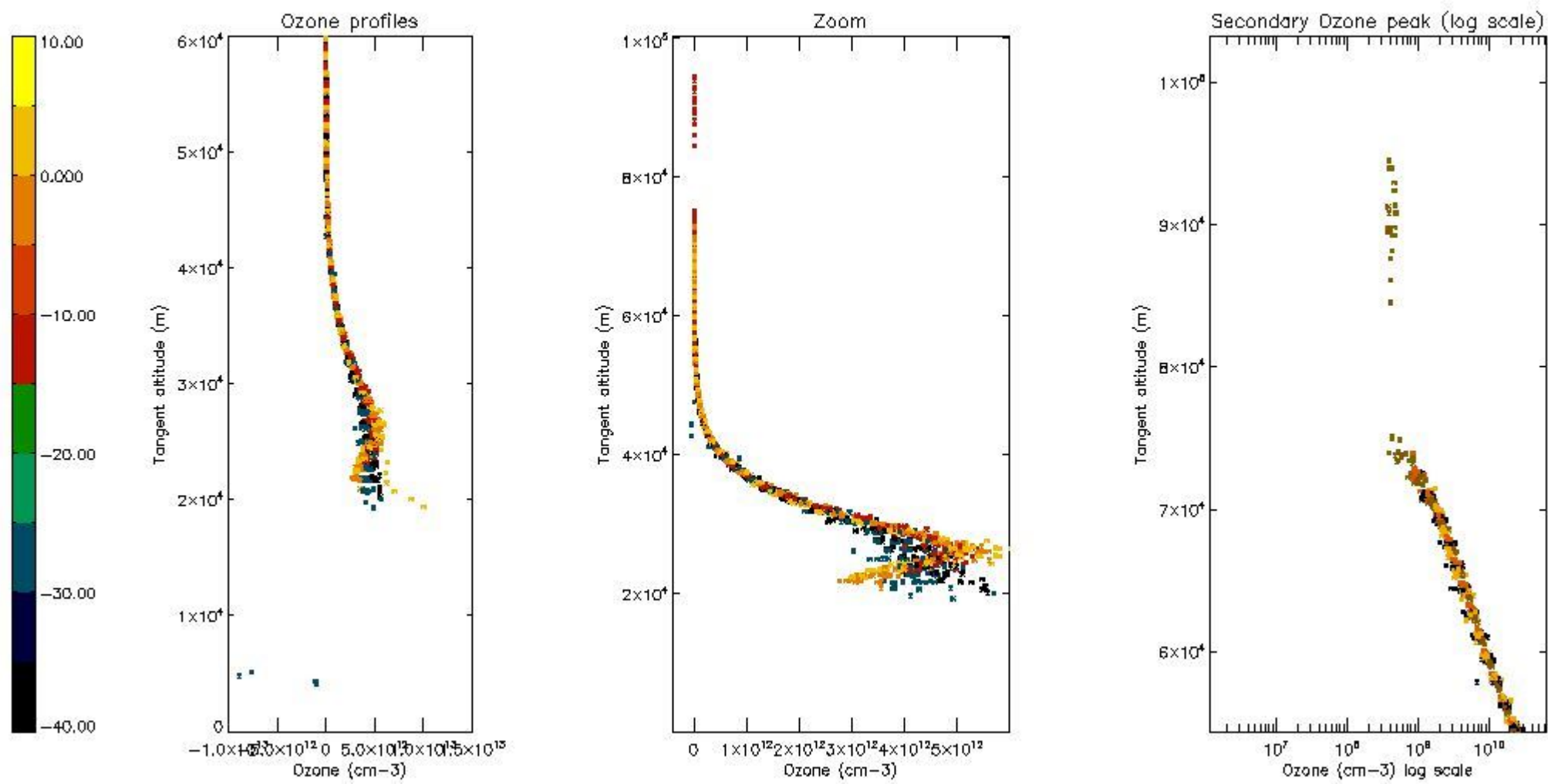
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



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

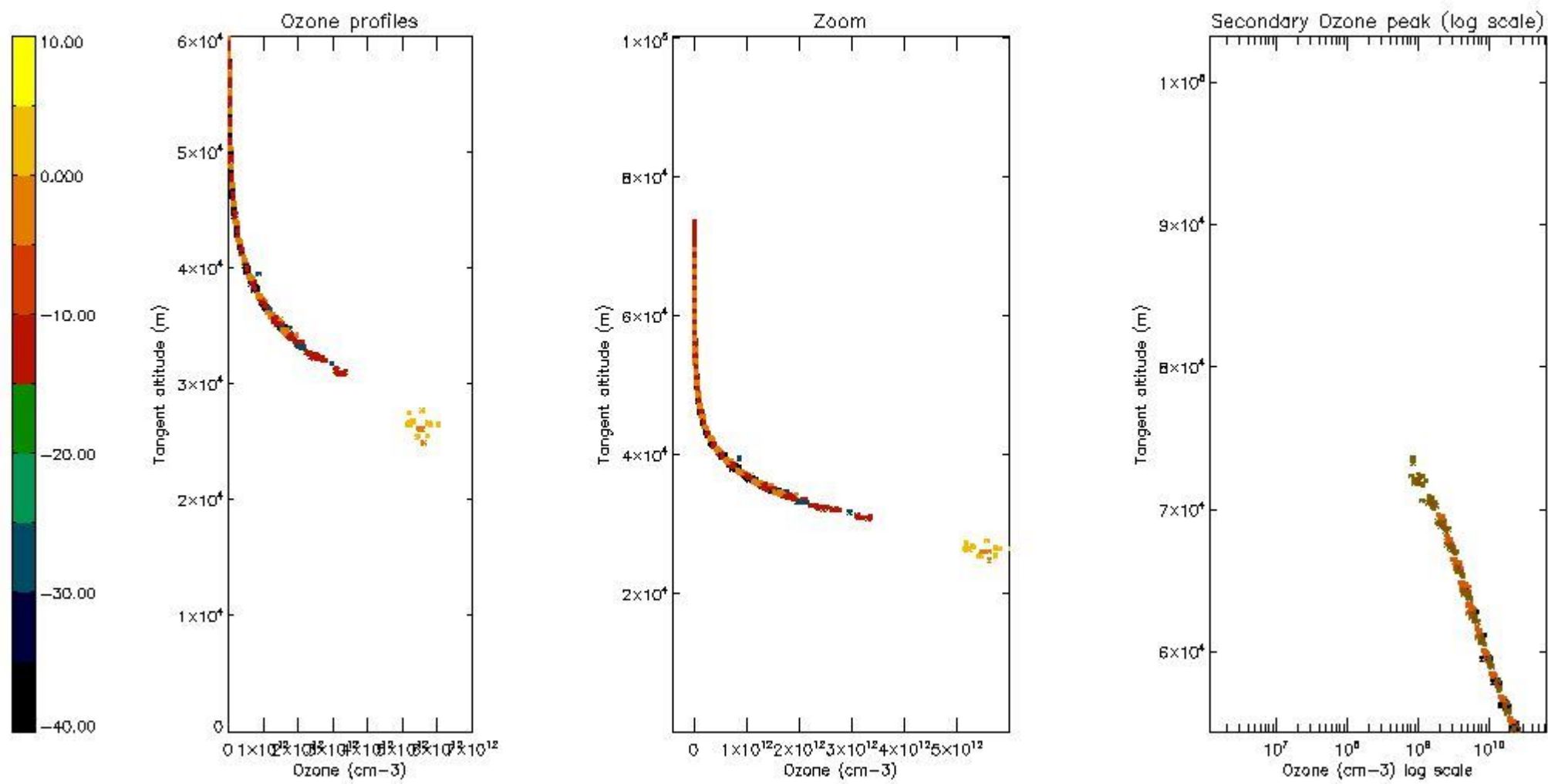
The colorbar represents the latitude.



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

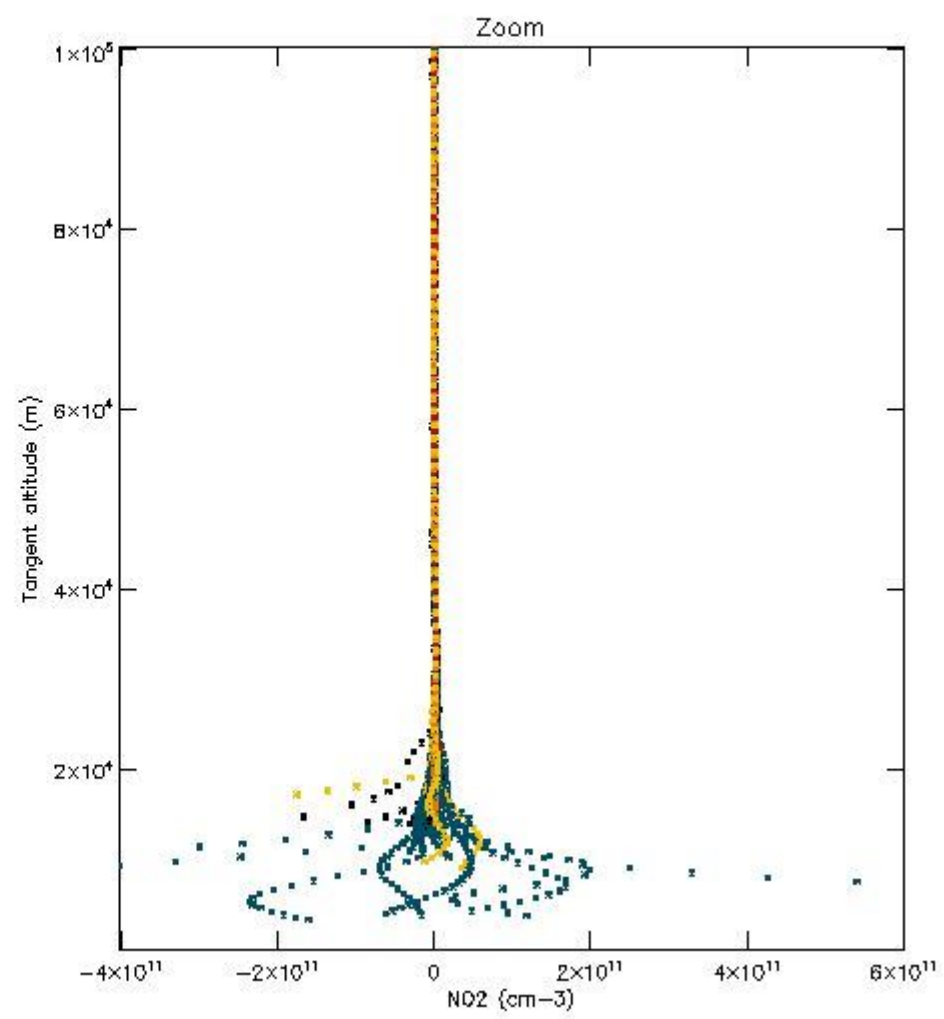
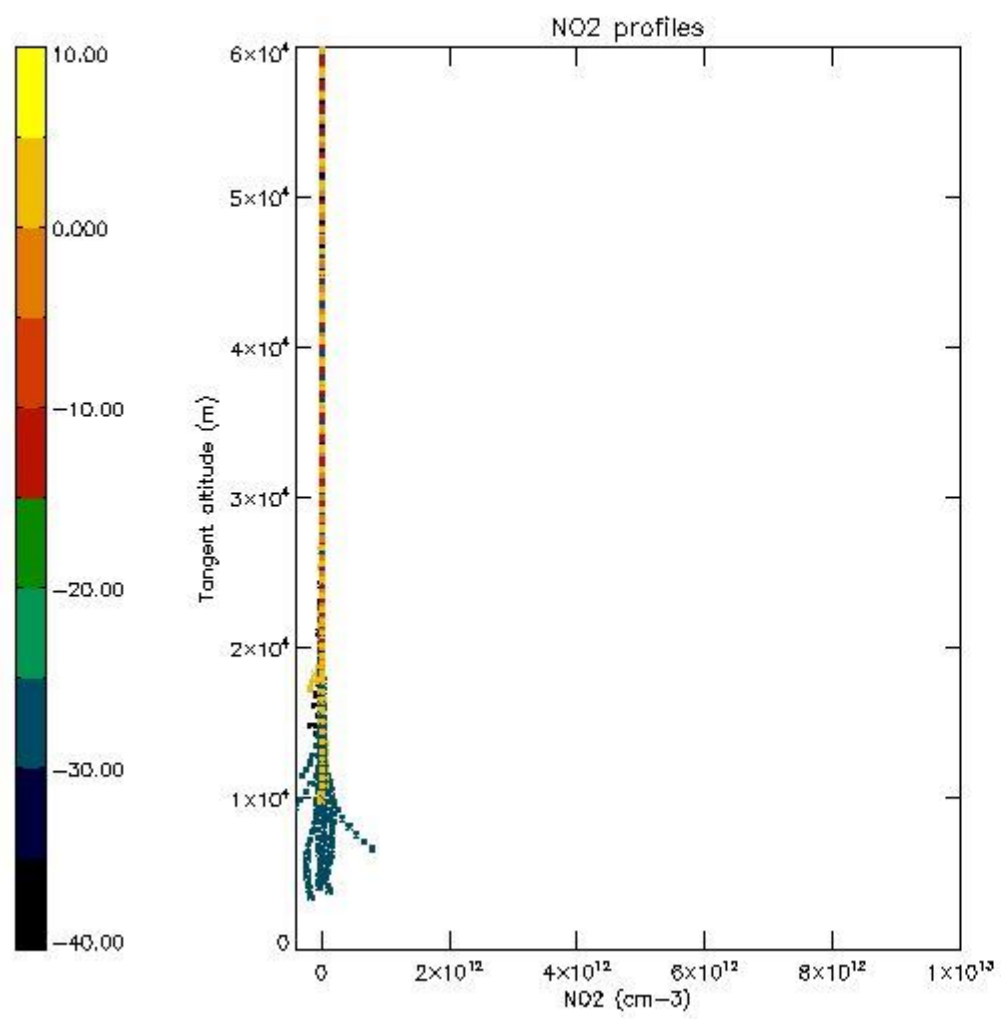
The colorbar represents the latitude.





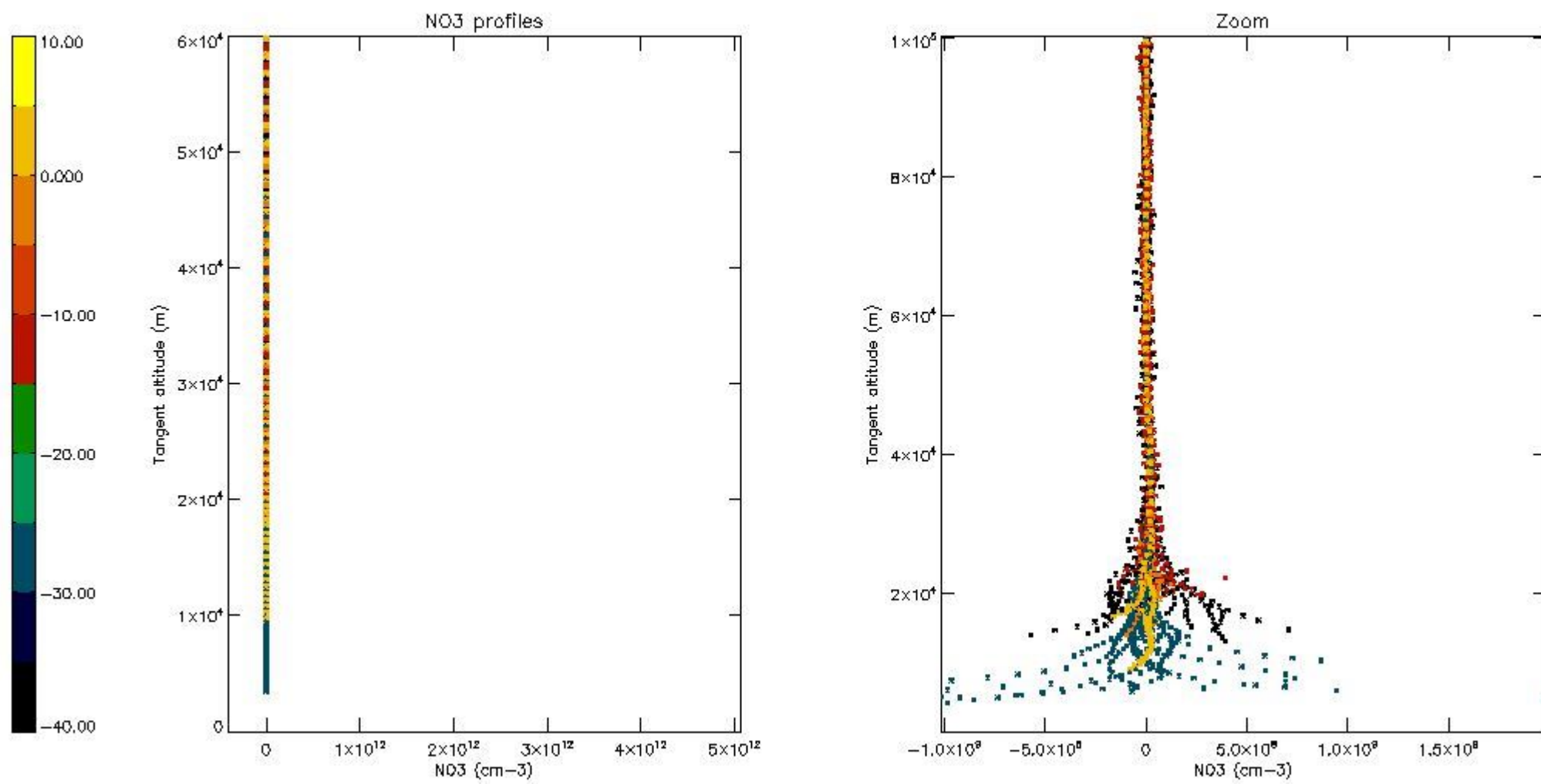
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



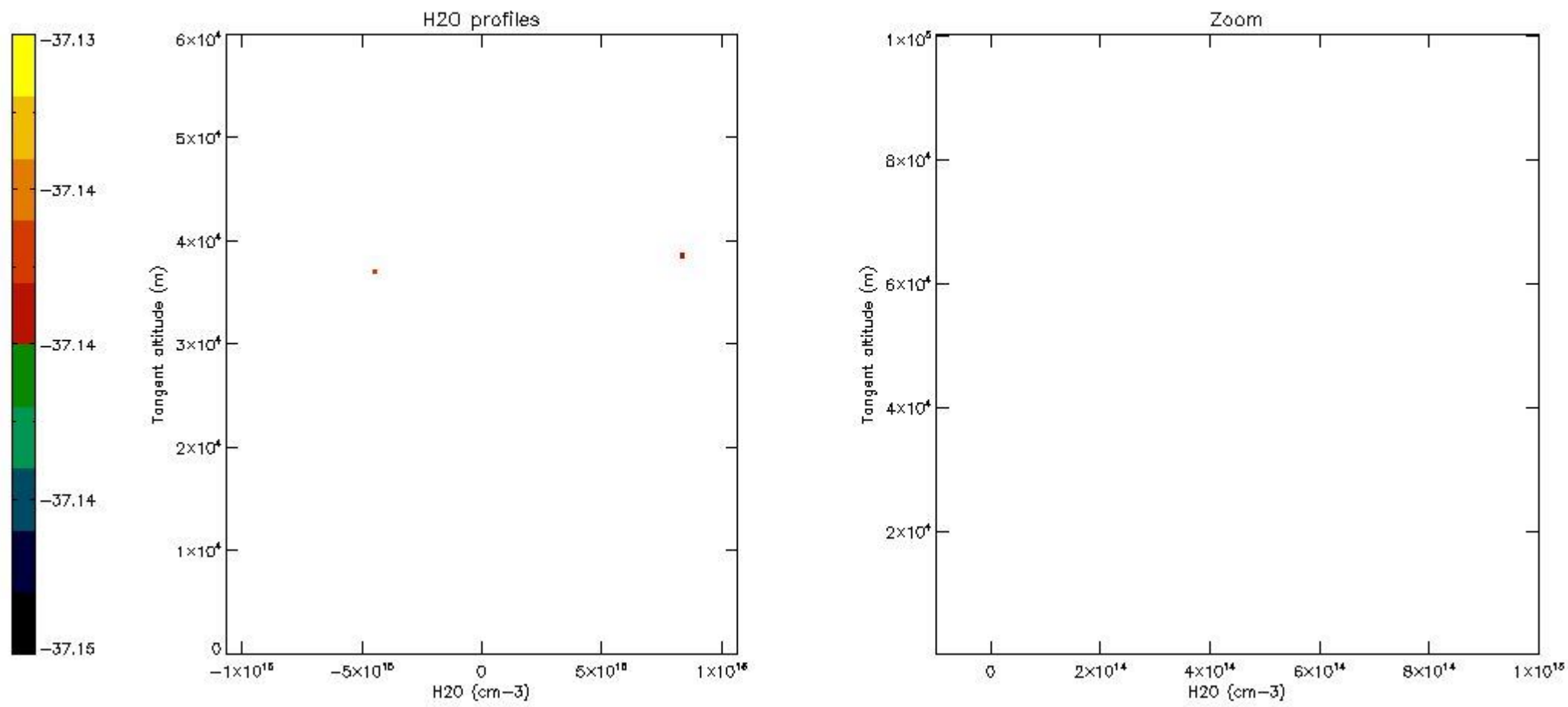
*5.7 Plot NO3 profiles for all STD (dark without errors)*

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	21-NOV-2007 00:08:59
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-NOV-2007 00:08:59
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-NOV-2007 00:08:59

# 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	23APR2013 11:49:34
Data source version	GOMOS/6.01
Start time of products	21-11-2007 (21NOV2007 00:00:00)
Stop time of products	22-11-2007 (22NOV2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	312
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__2PRFIN20071121_000859_000000392063_00317_29930_3133.N1	21-NOV-2007 00:08:59	Straylight	39.000	157	The1Eri	2.9060	9300.0	78	29930	No
2	GOM_NL__2PRFIN20071121_002137_000000422063_00317_29930_3134.N1	21-NOV-2007 00:21:37	Twilight	42.000	94	92Alp Cet	2.5260	3100.0	84	29930	No
3	GOM_NL__2PRFIN20071121_002635_000000362063_00317_29930_3135.N1	21-NOV-2007 00:26:35	Bright	36.000	105	6Bet Ari	2.6450	8900.0	72	29930	No
4	GOM_NL__2PRFIN20071121_003027_000000352063_00317_29930_3136.N1	21-NOV-2007 00:30:27	Bright	34.500	173	4Bet Tri	3.0040	8900.0	69	29930	No
5	GOM_NL__2PRFIN20071121_003231_000000362063_00317_29930_3137.N1	21-NOV-2007 00:32:31	Bright	35.500	73	57Gam1And	2.2600	13100.0	71	29930	No
6	GOM_NL__2PRFIN20071121_003601_000000382063_00317_29930_3138.N1	21-NOV-2007 00:36:01	Bright	37.500	160	23Gam Per	2.9300	4700.0	75	29930	No
7	GOM_NL__2PRFIN20071121_003739_000000352063_00317_29930_3139.N1	21-NOV-2007 00:37:39	Bright	35.000	110	37Del Cas	2.6780	8900.0	70	29930	No
8	GOM_NL__2PRFIN20071121_004545_000000332063_00317_29930_3140.N1	21-NOV-2007 00:45:45	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	29930	No
9	GOM_NL__2PRFIN20071121_005015_000000372063_00317_29930_3141.N1	21-NOV-2007 00:50:15	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	29930	No
10	GOM_NL__2PRFIN20071121_005545_000000382063_00317_29930_3142.N1	21-NOV-2007 00:55:45	Bright	37.500	32	77Eps UMa	1.7630	11000.0	75	29930	No
11	GOM_NL__2PRFIN20071121_005732_000000522063_00317_29930_3143.N1	21-NOV-2007 00:57:32	Bright	52.000	39	85Eta UMa	1.8540	24000.0	104	29930	No
12	GOM_NL__2PRFIN20071121_010100_000000362063_00317_29930_3144.N1	21-NOV-2007 01:01:00	Bright	36.000	152	12Alp2CVn	2.8900	11000.0	72	29930	No
13	GOM_NL__2PRFIN20071121_010608_000000332063_00317_29930_3145.N1	21-NOV-2007 01:06:08	Bright	32.500	111	8Eta Boo	2.6800	6000.0	65	29930	No
14	GOM_NL__2PRFIN20071121_010855_000000362063_00317_29930_3146.N1	21-NOV-2007 01:08:55	Bright	36.000	138	47Eps Vir	2.8280	4700.0	72	29930	No
15	GOM_NL__2PRFIN20071121_011251_000000392063_00317_29930_3147.N1	21-NOV-2007 01:12:51	Bright	39.000	121	29Gam Vir	2.7400	7200.0	78	29930	No
16	GOM_NL__2PRFIN20071121_011804_000000412063_00317_29930_3148.N1	21-NOV-2007 01:18:04	Twilight	41.000	100	4Gam Crv	2.5800	13100.0	82	29930	No
17	GOM_NL__2PRFIN20071121_011936_000000402063_00317_29930_3149.N1	21-NOV-2007 01:19:36	Twilight	40.000	171	2Eps Crv	3.0010	4250.0	80	29930	No
18	GOM_NL__2PRFIN20071121_012532_000000402063_00317_29930_3150.N1	21-NOV-2007 01:25:32	Dark	40.000	64	Gam Cen	2.2000	10600.0	80	29930	No
19	GOM_NL__2PRFIN20071121_012747_000000442063_00317_29930_3151.N1	21-NOV-2007 01:27:47	Dark	43.500	26	Gam Cru	1.6240	2900.0	87	29930	No
20	GOM_NL__2PRFIN20071121_013139_000000362063_00318_29931_3149.N1	21-NOV-2007 01:31:39	Dark	36.000	124	The Car	2.7640	30000.0	72	29931	No
21	GOM_NL__2PRFIN20071121_013431_000000382063_00318_29931_3150.N1	21-NOV-2007 01:34:31	Dark	37.500	29	Bet Car	1.6720	10200.0	75	29931	No
22	GOM_NL__2PRFIN20071121_013551_000000422063_00318_29931_3151.N1	21-NOV-2007 01:35:51	Dark	42.000	41	Eps Car	1.8600	4100.0	84	29931	No
23	GOM_NL__2PRFIN20071121_014936_000000382063_00318_29931_3152.N1	21-NOV-2007 01:49:36	Straylight	37.500	157	The1Eri	2.9060	9300.0	75	29931	No
24	GOM_NL__2PRFIN20071121_020212_000000442063_00318_29931_3153.N1	21-NOV-2007 02:02:12	Twilight	43.500	94	92Alp Cet	2.5260	3100.0	87	29931	No
25	GOM_NL__2PRFIN20071121_020711_000000372063_00318_29931_3154.N1	21-NOV-2007 02:07:11	Bright	36.500	105	6Bet Ari	2.6450	8900.0	73	29931	No
26	GOM_NL__2PRFIN20071121_021103_000000352063_00318_29931_3155.N1	21-NOV-2007 02:11:03	Bright	35.000	173	4Bet Tri	3.0040	8900.0	70	29931	No
27	GOM_NL__2PRFIN20071121_021307_000000392063_00318_29931_3156.N1	21-NOV-2007 02:13:07	Bright	38.500	73	57Gam1And	2.2600	13100.0	77	29931	No
28	GOM_NL__2PRFIN20071121_021637_000000382063_00318_29931_3157.N1	21-NOV-2007 02:16:37	Bright	37.500	160	23Gam Per	2.9300	4700.0	75	29931	No
29	GOM_NL__2PRFIN20071121_021815_000000352063_00318_29931_3158.N1	21-NOV-2007 02:18:15	Bright	34.500	110	37Del Cas	2.6780	8900.0	69	29931	No
30	GOM_NL__2PRFIN20071121_022621_000000322063_00318_29931_3159.N1	21-NOV-2007 02:26:21	Bright	31.500	49	1Alp UMi	1.9900	6300.0	63	29931	No
31	GOM_NL__2PRFIN20071121_023050_000000372063_00318_29931_3160.N1	21-NOV-2007 02:30:50	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	29931	No
32	GOM_NL__2PRFIN20071121_023621_000000382063_00318_29931_3161.N1	21-NOV-2007 02:36:21	Bright	37.500	32	77Eps UMa	1.7630	11000.0	75	29931	No
33	GOM_NL__2PRFIN20071121_023808_000000362063_00318_29931_3162.N1	21-NOV-2007 02:38:08	Bright	36.000	39	85Eta UMa	1.8540	24000.0	72	29931	No
34	GOM_NL__2PRFIN20071121_024136_000000372063_00318_29931_3163.N1	21-NOV-2007 02:41:36	Bright	36.500	152	12Alp2CVn	2.8900	11000.0	73	29931	No
35	GOM_NL__2PRFIN20071121_024644_000000332063_00318_29931_3164.N1	21-NOV-2007 02:46:44	Bright	33.000	111	8Eta Boo	2.6800	6000.0	66	29931	No
36	GOM_NL__2PRFIN20071121_024931_000000362063_00318_29931_3165.N1	21-NOV-2007 02:49:31	Bright	35.500	138	47Eps Vir	2.8280	4700.0	71	29931	No
37	GOM_NL__2PRFIN20071121_025328_000000392063_00318_29931_3166.N1	21-NOV-2007 02:53:28	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	29931	No
38	GOM_NL__2PRFIN20071121_025840_000000422063_00318_29931_3167.N1	21-NOV-2007 02:58:40	Twilight	41.500	100	4Gam Crv	2.5800	13100.0	83	29931	No
39	GOM_NL__2PRFIN20071121_030013_000000462063_00318_29931_3168.N1	21-NOV-2007 03:00:13	Twilight	46.000	171	2Eps Crv	3.0010	4250.0	92	29931	No
40	GOM_NL__2PRFIN20071121_030609_000000412063_00318_29931_3169.N1	21-NOV-2007 03:06:09	Dark	40.500	64	Gam Cen	2.2000	10600.0	81	29931	No
41	GOM_NL__2PRFIN20071121_030824_000000492063_00318_29931_3170.N1	21-NOV-2007 03:08:24	Dark	48.500	26	Gam Cru	1.6240	2900.0	97	29931	No
42	GOM_NL__2PRFIN20071121_031216_000000372063_00319_29932_3160.N1	21-NOV-2007 03:12:16	Dark	37.000	124	The Car	2.7640	30000.0	74	29932	No









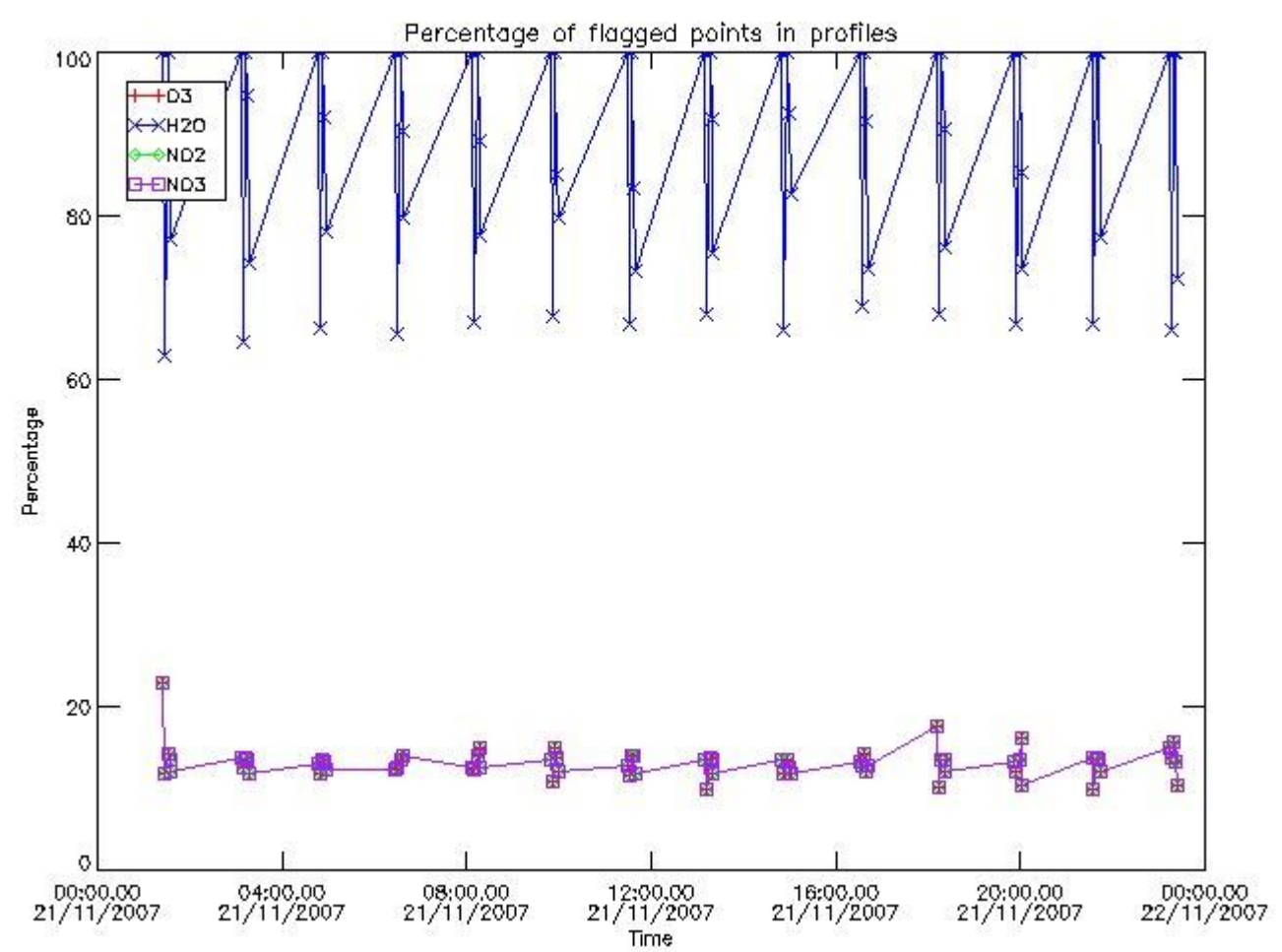


279	GOM_NL__2PRFIN20071121_212007_000000562063_00329_29942_3407.N1	21-NOV-2007 21:20:07	Bright	55.500	121	29Gam Vir	2.7400	7200.0	111	29942	No
280	GOM_NL__2PRFIN20071121_212521_000000442063_00329_29942_3408.N1	21-NOV-2007 21:25:21	Twilight	43.500	100	4Gam Crv	2.5800	13100.	87	29942	No
281	GOM_NL__2PRFIN20071121_212654_000000432063_00329_29942_3409.N1	21-NOV-2007 21:26:54	Twilight	42.500	171	2Eps Crv	3.0010	4250.0	85	29942	No
282	GOM_NL__2PRFIN20071121_213247_000000372063_00329_29942_3410.N1	21-NOV-2007 21:32:47	Dark	37.000	64	Gam Cen	2.2000	10600.	74	29942	No
283	GOM_NL__2PRFIN20071121_213502_000000522063_00329_29942_3411.N1	21-NOV-2007 21:35:02	Dark	51.500	26	Gam Cru	1.6240	2900.0	103	29942	No
284	GOM_NL__2PRFIN20071121_213856_000000372063_00330_29943_3405.N1	21-NOV-2007 21:38:56	Dark	37.000	124	The Car	2.7640	30000.	74	29943	No
285	GOM_NL__2PRFIN20071121_214147_000000382063_00330_29943_3406.N1	21-NOV-2007 21:41:47	Dark	38.000	29	Bet Car	1.6720	10200.	76	29943	No
286	GOM_NL__2PRFIN20071121_214309_000000432063_00330_29943_3407.N1	21-NOV-2007 21:43:09	Dark	42.500	41	Eps Car	1.8600	4100.0	85	29943	No
287	GOM_NL__2PRFIN20071121_215649_000000392063_00330_29943_3408.N1	21-NOV-2007 21:56:49	Straylight	38.500	157	The1Eri	2.9060	9300.0	77	29943	No
288	GOM_NL__2PRFIN20071121_220924_000000462063_00330_29943_3409.N1	21-NOV-2007 22:09:24	Twilight	45.500	94	92Alp Cet	2.5260	3100.0	91	29943	No
289	GOM_NL__2PRFIN20071121_221424_000000352063_00330_29943_3410.N1	21-NOV-2007 22:14:24	Bright	35.000	105	6Bet Ari	2.6450	8900.0	70	29943	No
290	GOM_NL__2PRFIN20071121_221815_000000352063_00330_29943_3411.N1	21-NOV-2007 22:18:15	Bright	35.000	173	4Bet Tri	3.0040	8900.0	70	29943	No
291	GOM_NL__2PRFIN20071121_222019_000000372063_00330_29943_3412.N1	21-NOV-2007 22:20:19	Bright	37.000	73	57Gam1And	2.2600	13100.	74	29943	No
292	GOM_NL__2PRFIN20071121_222345_000000372063_00330_29943_3413.N1	21-NOV-2007 22:23:45	Bright	36.500	160	23Gam Per	2.9300	4700.0	73	29943	No
293	GOM_NL__2PRFIN20071121_222528_000000362063_00330_29943_3414.N1	21-NOV-2007 22:25:28	Bright	35.500	110	37Del Cas	2.6780	8900.0	71	29943	No
294	GOM_NL__2PRFIN20071121_223332_000000362063_00330_29943_3415.N1	21-NOV-2007 22:33:32	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29943	No
295	GOM_NL__2PRFIN20071121_223803_000000352063_00330_29943_3416.N1	21-NOV-2007 22:38:03	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	29943	No
296	GOM_NL__2PRFIN20071121_224332_000000362063_00330_29943_3417.N1	21-NOV-2007 22:43:32	Bright	36.000	32	77Eps UMa	1.7630	11000.	72	29943	No
297	GOM_NL__2PRFIN20071121_224520_000000342063_00330_29943_3418.N1	21-NOV-2007 22:45:20	Bright	34.000	39	85Eta UMa	1.8540	24000.	68	29943	No
298	GOM_NL__2PRFIN20071121_224848_000000362063_00330_29943_3419.N1	21-NOV-2007 22:48:48	Bright	35.500	152	12Alp2CVn	2.8900	11000.	71	29943	No
299	GOM_NL__2PRFIN20071121_225357_000000332063_00330_29943_3420.N1	21-NOV-2007 22:53:57	Bright	33.000	111	8Eta Boo	2.6800	6000.0	66	29943	No
300	GOM_NL__2PRFIN20071121_225646_000000352063_00330_29943_3421.N1	21-NOV-2007 22:56:46	Bright	34.500	138	47Eps Vir	2.8280	4700.0	69	29943	No
301	GOM_NL__2PRFIN20071121_230044_000000562063_00330_29943_3422.N1	21-NOV-2007 23:00:44	Bright	56.000	121	29Gam Vir	2.7400	7200.0	112	29943	No
302	GOM_NL__2PRFIN20071121_230558_000000422063_00330_29943_3423.N1	21-NOV-2007 23:05:58	Twilight	41.500	100	4Gam Crv	2.5800	13100.	83	29943	No
303	GOM_NL__2PRFIN20071121_230731_000000432063_00330_29943_3424.N1	21-NOV-2007 23:07:31	Twilight	42.500	171	2Eps Crv	3.0010	4250.0	85	29943	No
304	GOM_NL__2PRFIN20071121_231323_000000382063_00330_29943_3425.N1	21-NOV-2007 23:13:23	Dark	37.500	64	Gam Cen	2.2000	10600.	75	29943	No
305	GOM_NL__2PRFIN20071121_231538_000000522063_00330_29943_3426.N1	21-NOV-2007 23:15:38	Dark	52.000	26	Gam Cru	1.6240	2900.0	104	29943	No
306	GOM_NL__2PRFIN20071121_231932_000000362063_00331_29944_3418.N1	21-NOV-2007 23:19:32	Dark	36.000	124	The Car	2.7640	30000.	72	29944	No
307	GOM_NL__2PRFIN20071121_232223_000000392063_00331_29944_3419.N1	21-NOV-2007 23:22:23	Dark	38.500	29	Bet Car	1.6720	10200.	77	29944	No
308	GOM_NL__2PRFIN20071121_232346_000000492063_00331_29944_3420.N1	21-NOV-2007 23:23:46	Dark	49.000	41	Eps Car	1.8600	4100.0	98	29944	No
309	GOM_NL__2PRFIN20071121_233725_000000372063_00331_29944_3421.N1	21-NOV-2007 23:37:25	Straylight	36.500	157	The1Eri	2.9060	9300.0	73	29944	No
310	GOM_NL__2PRFIN20071121_234959_000000462063_00331_29944_3422.N1	21-NOV-2007 23:49:59	Twilight	45.500	94	92Alp Cet	2.5260	3100.0	91	29944	No
311	GOM_NL__2PRFIN20071121_235459_000000362063_00331_29944_3423.N1	21-NOV-2007 23:54:59	Bright	35.500	105	6Bet Ari	2.6450	8900.0	71	29944	No
312	GOM_NL__2PRFIN20071121_235851_000000362063_00331_29944_3424.N1	21-NOV-2007 23:58:51	Bright	35.500	173	4Bet Tri	3.0040	8900.0	71	29944	No

### 3. Quality information per product

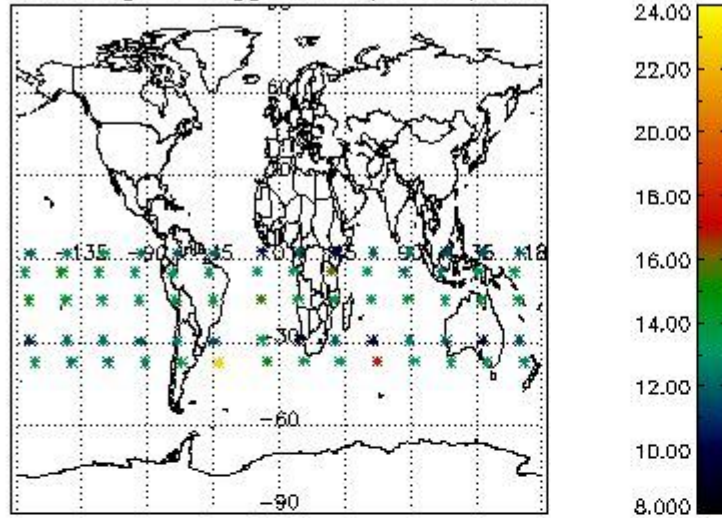
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

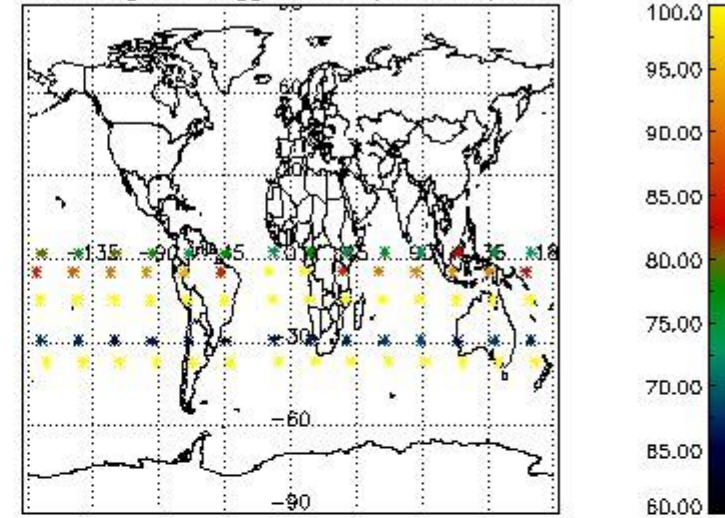


3.2 Plot quality information per product (world map)

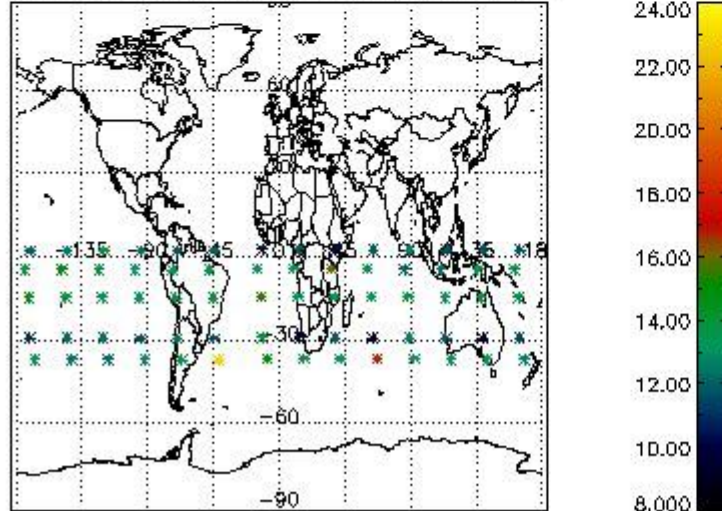
Percentage of flagged data per O3 profile



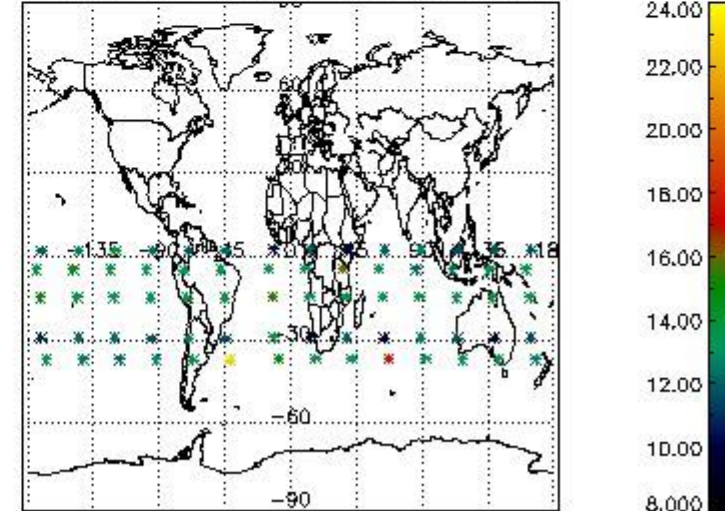
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

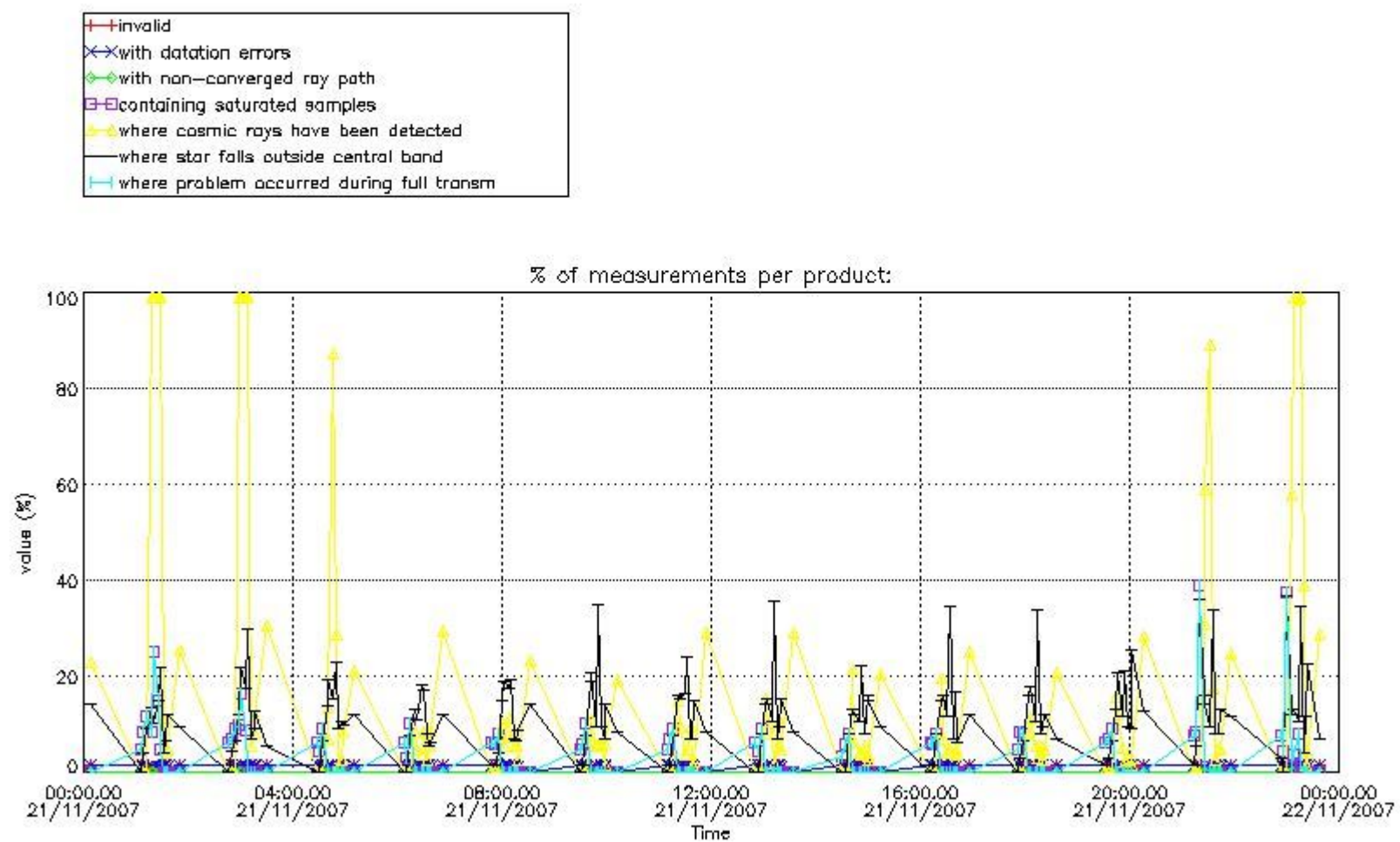


#### 4. Level 1 quality information per product

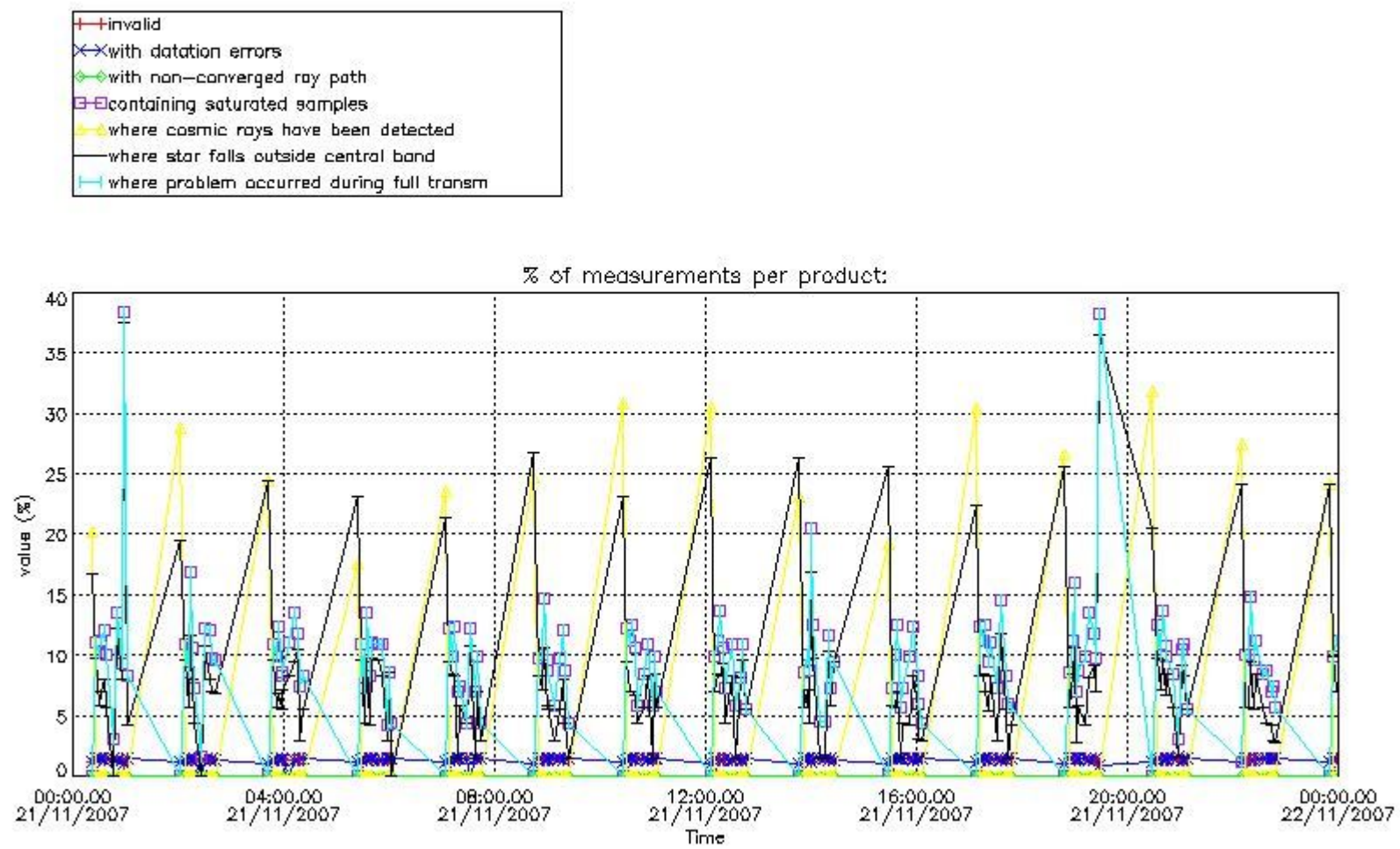
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

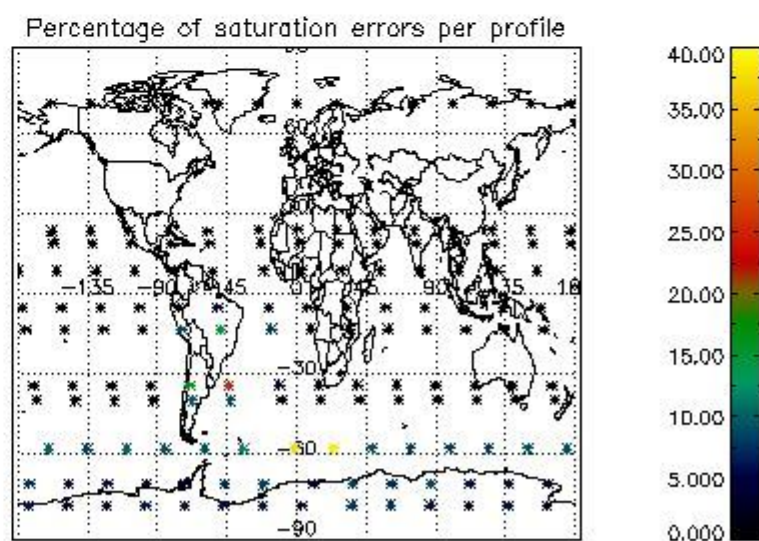
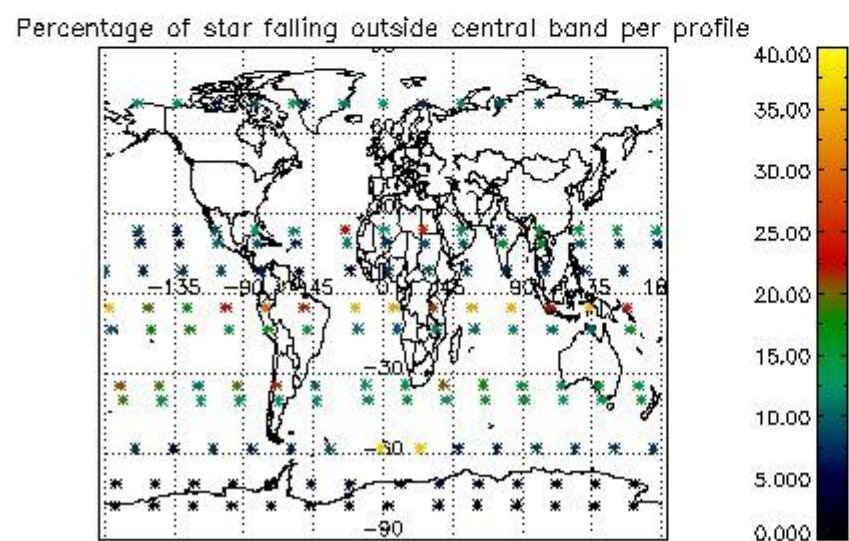
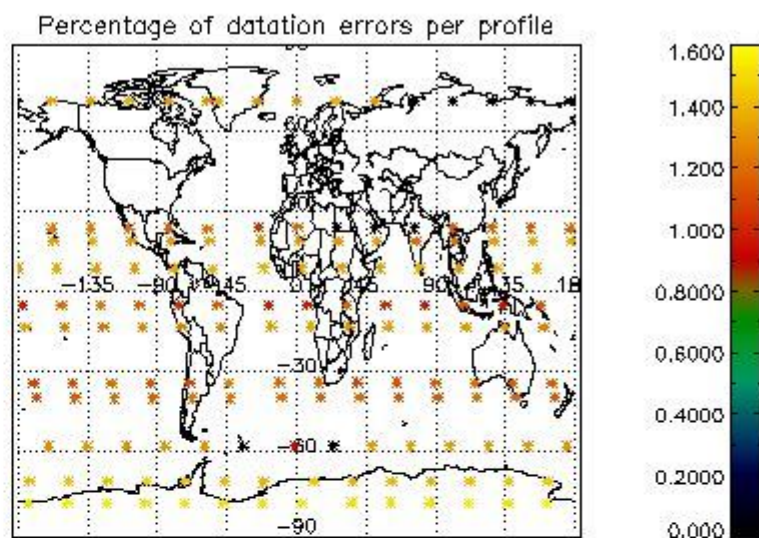
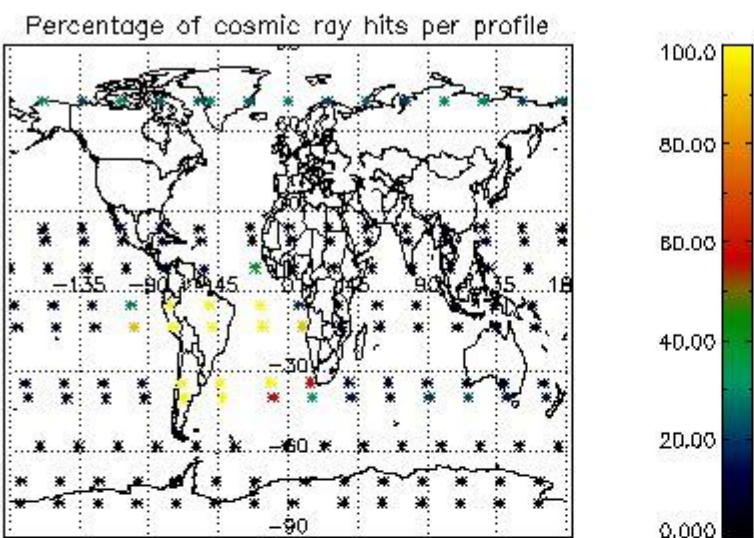


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



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

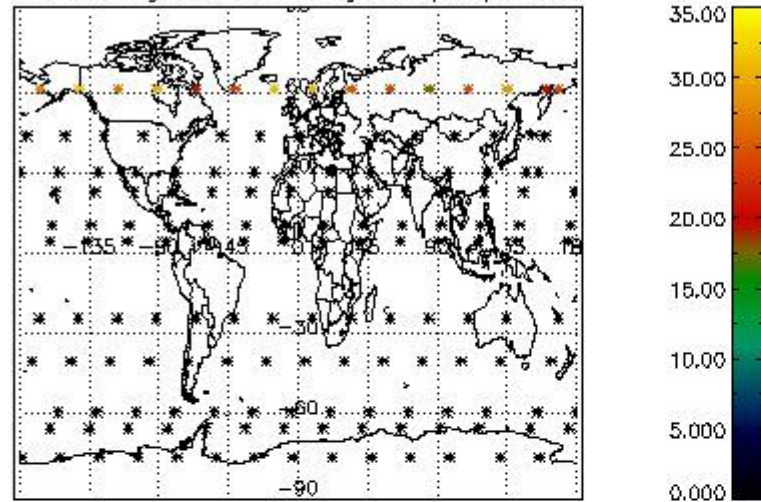
4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes



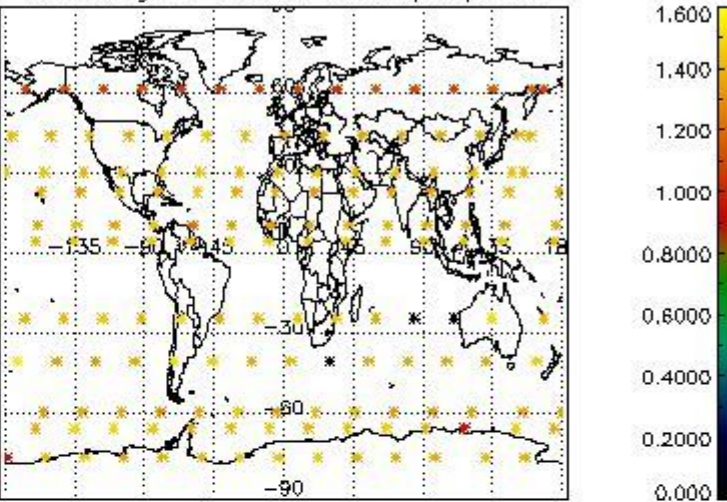
4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



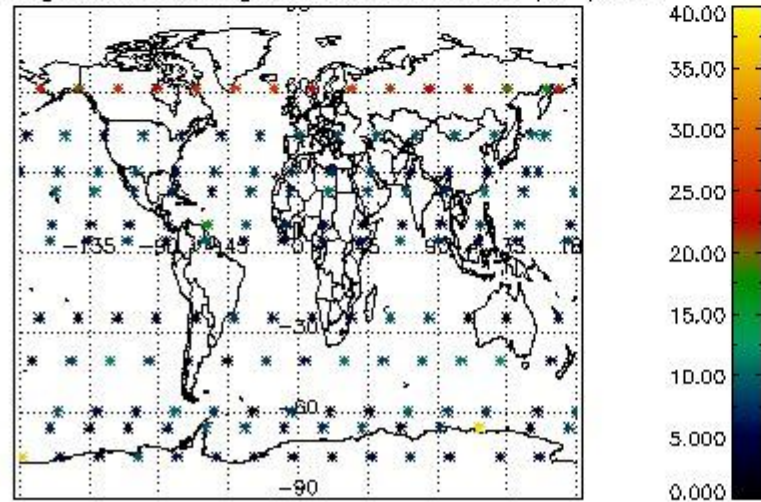
Percentage of cosmic ray hits per profile



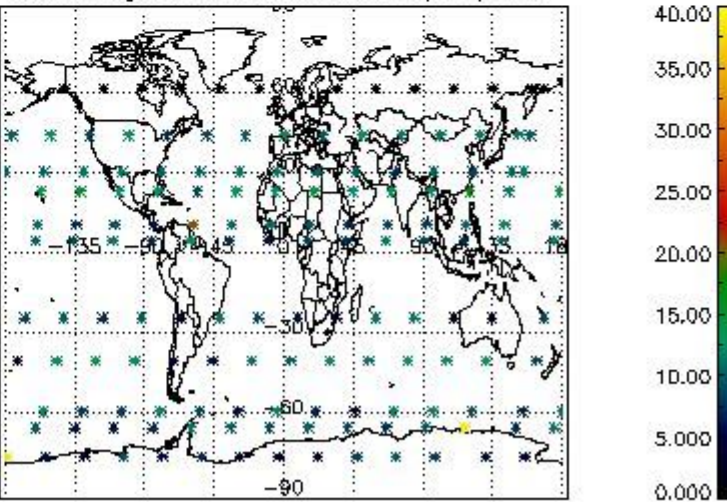
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/o3\_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM\_NL\_\_2P/NL\_SUMMARY\_QUALITY/obs\_ill\_cond=0
- Products without fatal errors: GOM\_NL\_\_2P/MPH/PRODUCT\_ERR=0
- Valid point profile: GOM\_NL\_\_2P/NL\_LOCAL\_SPECIES\_DENSITY/pcd(0)=0

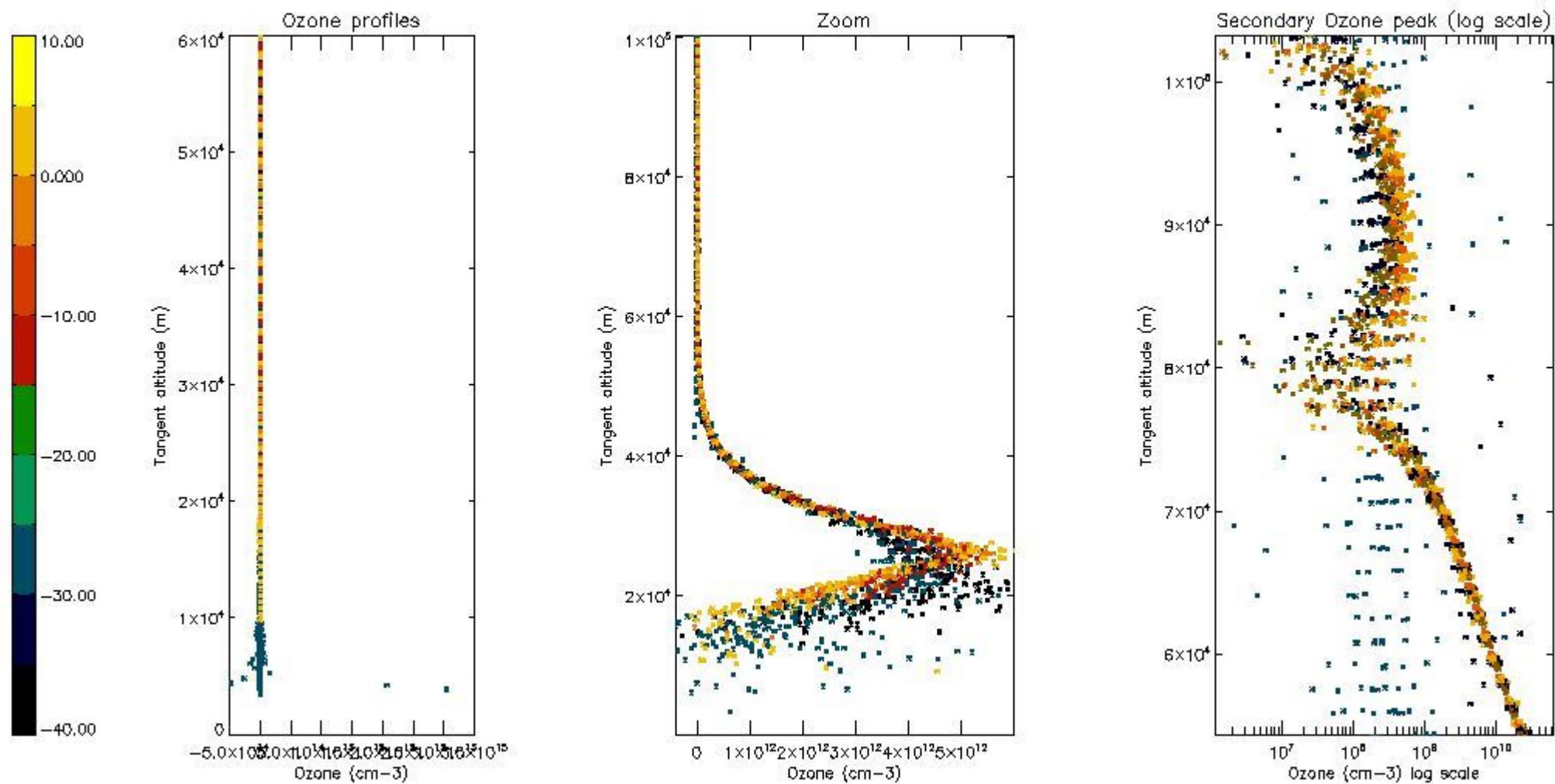
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	25
STD < 20	13

STD < 10	11
STD < 5	4

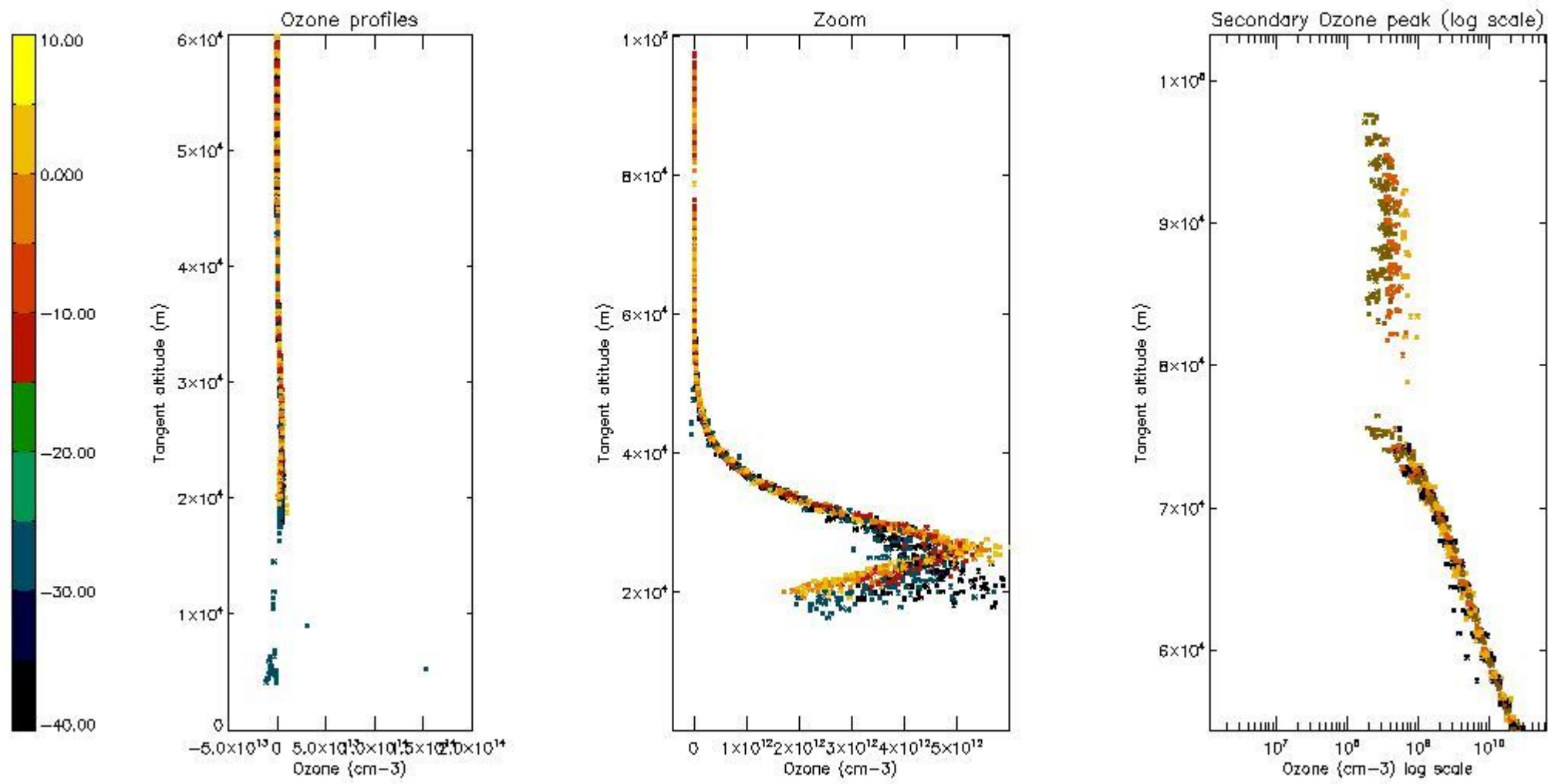
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



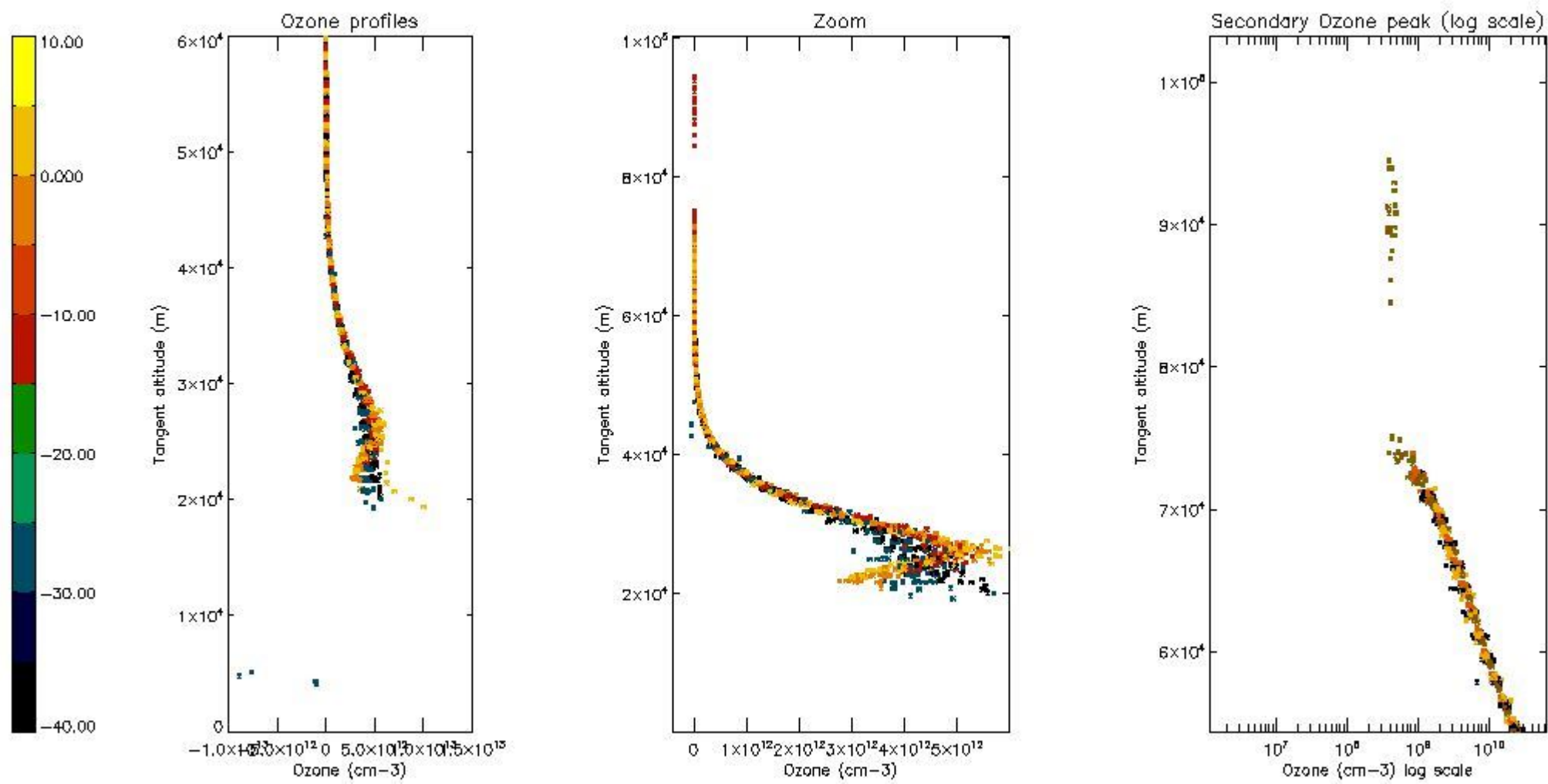
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



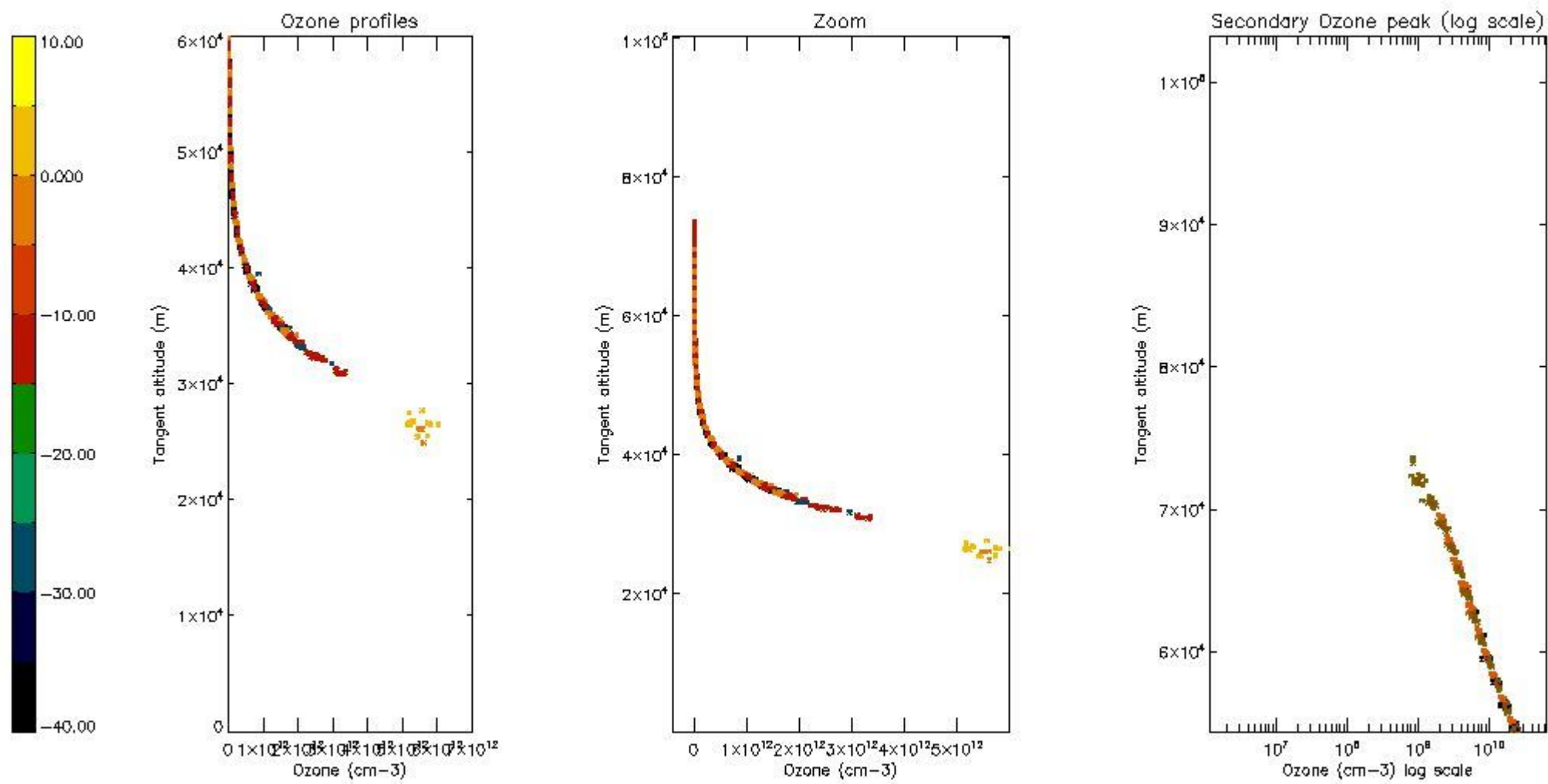
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



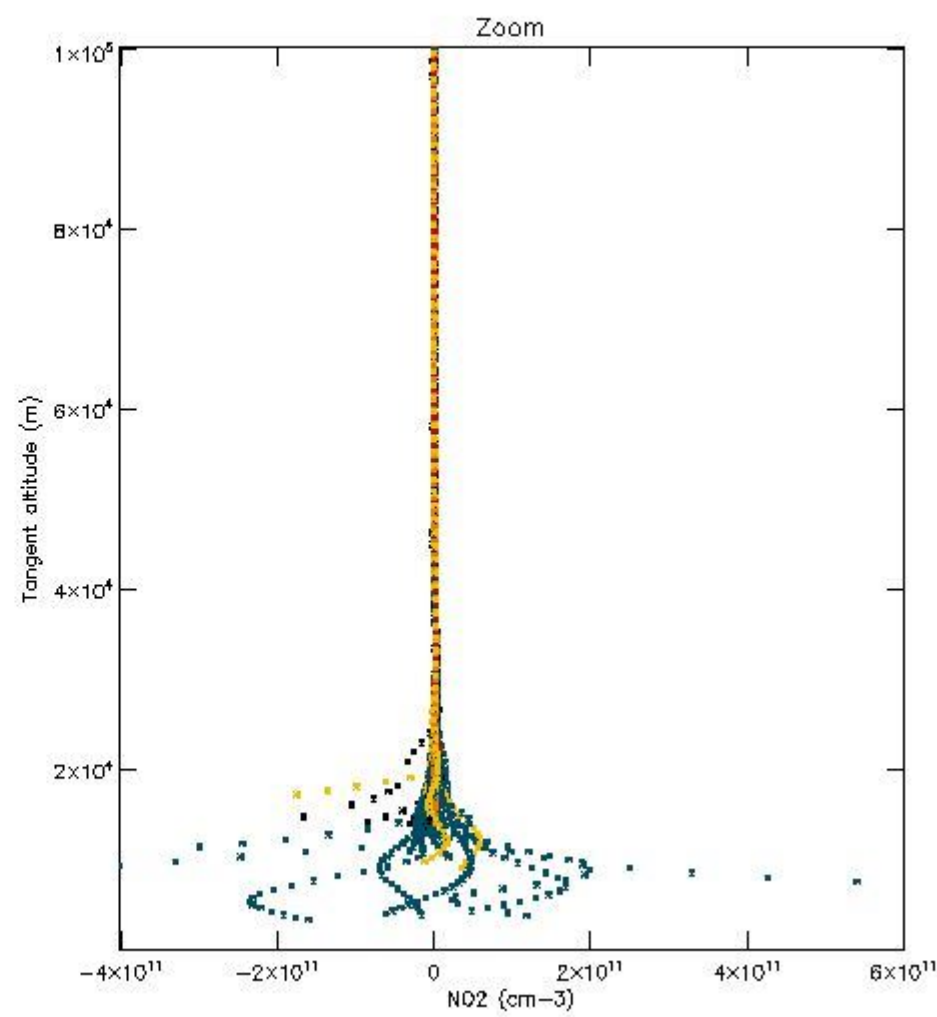
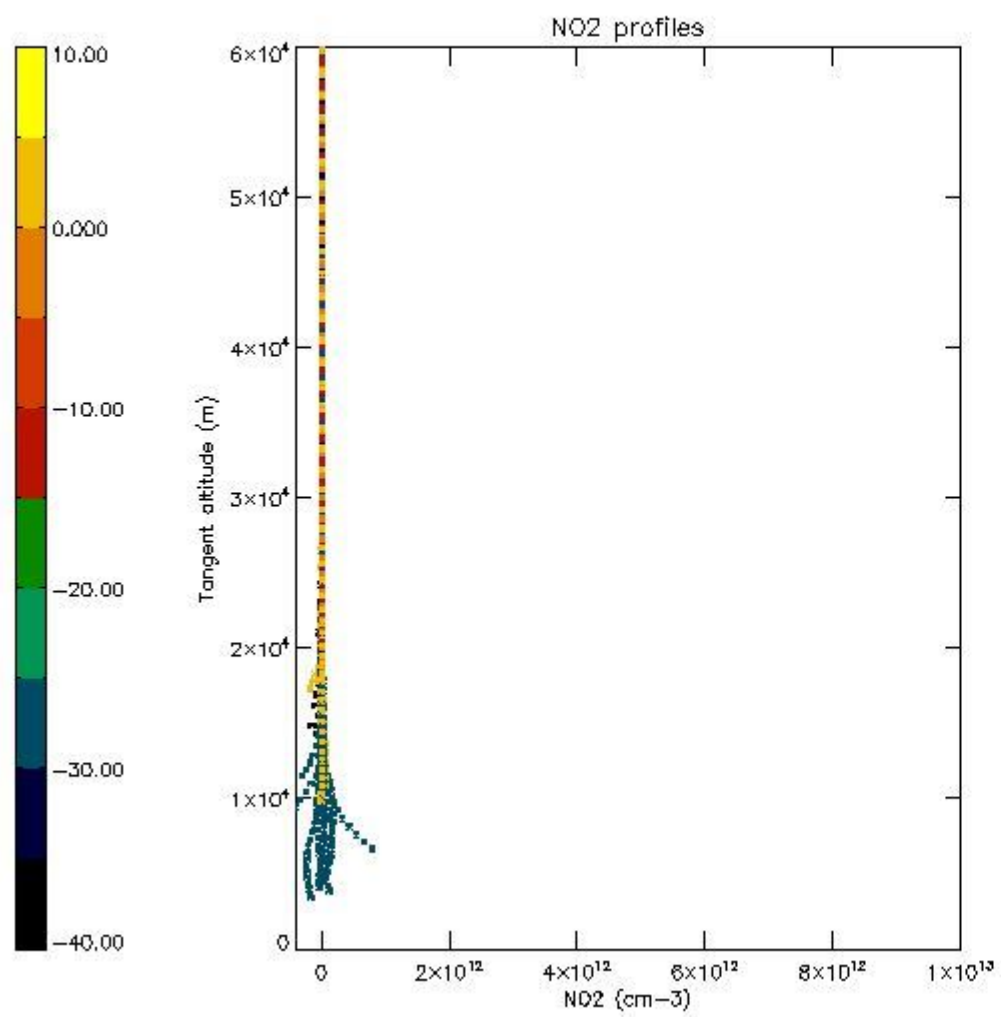
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



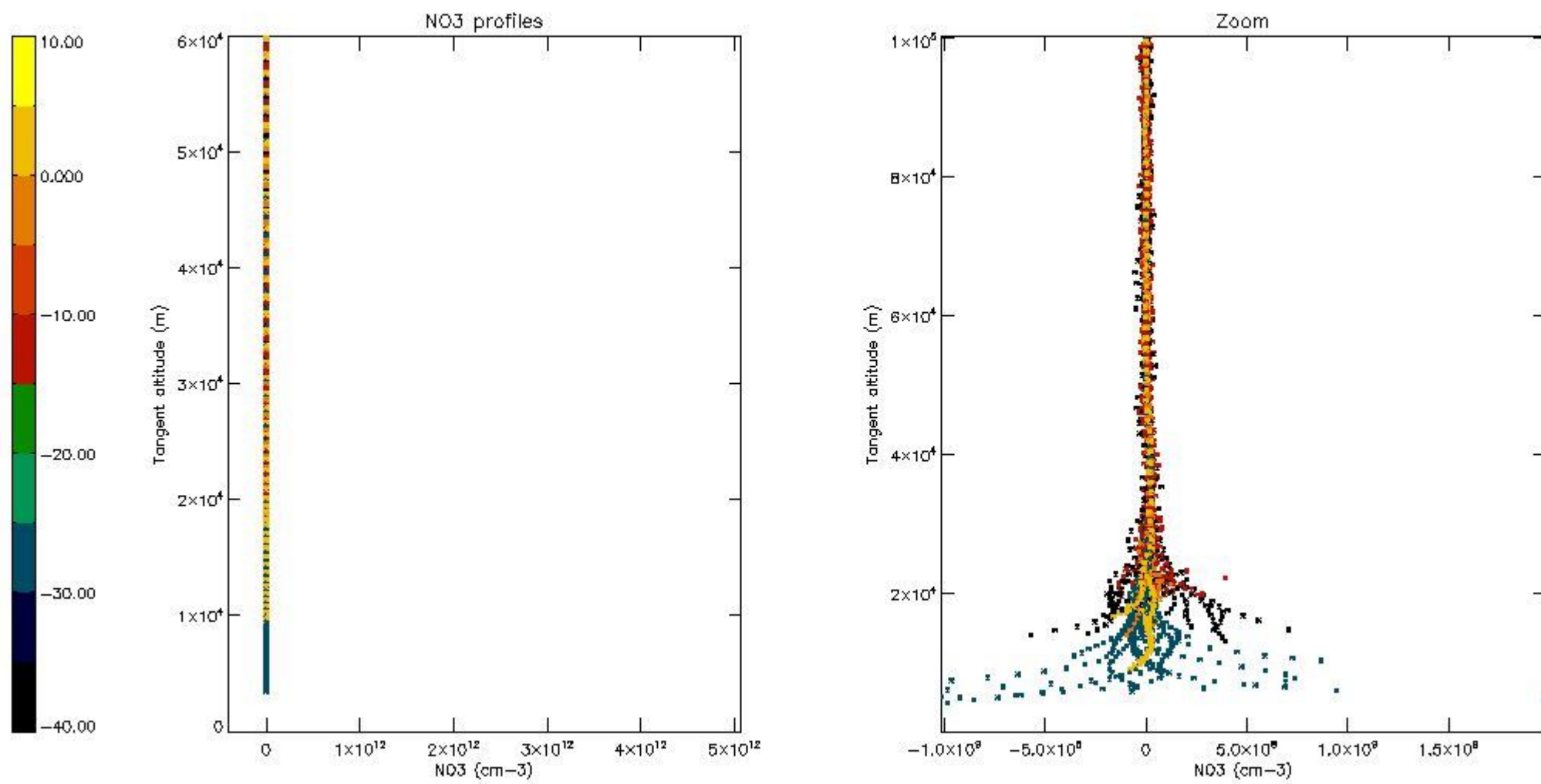
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



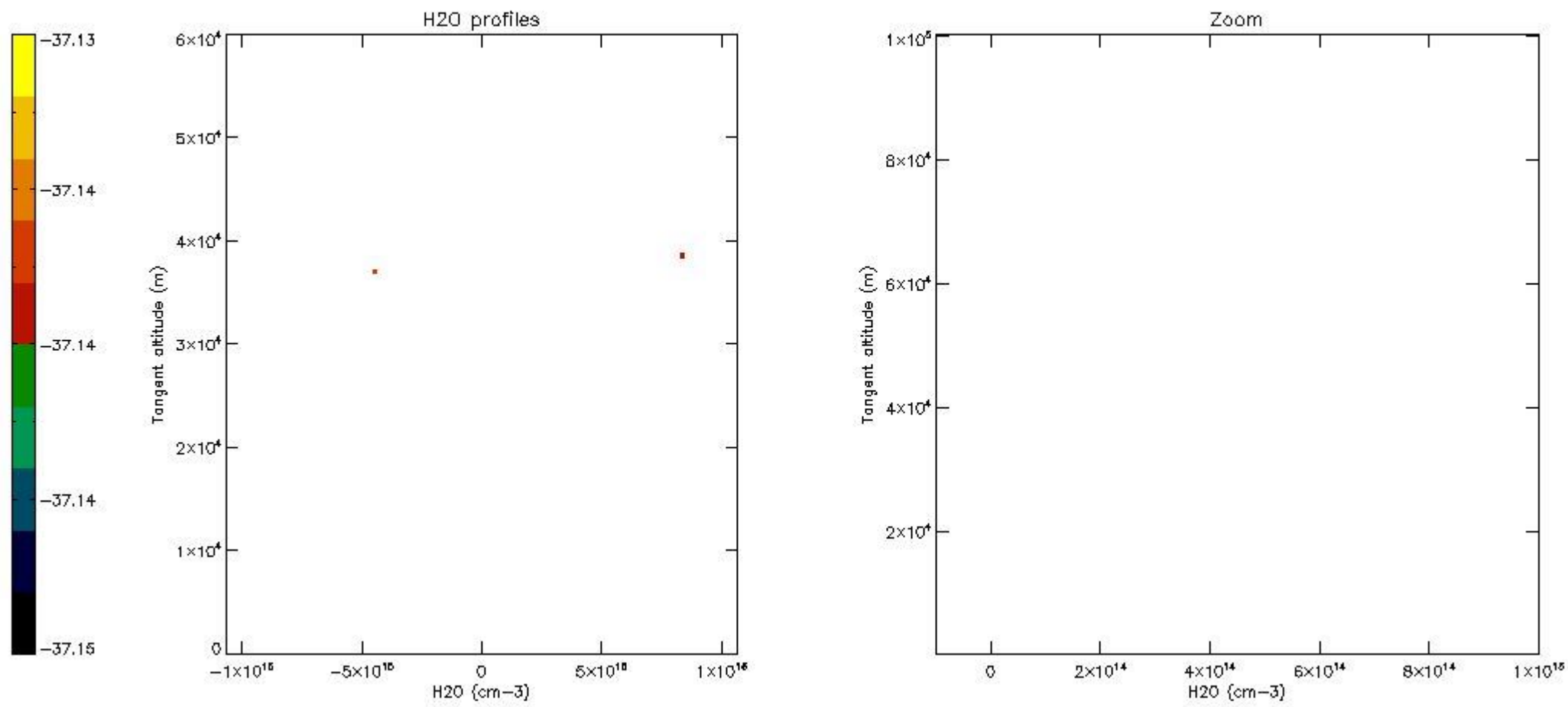
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



*5.8 Plot H2O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors)*

The colorbar represents the latitude.

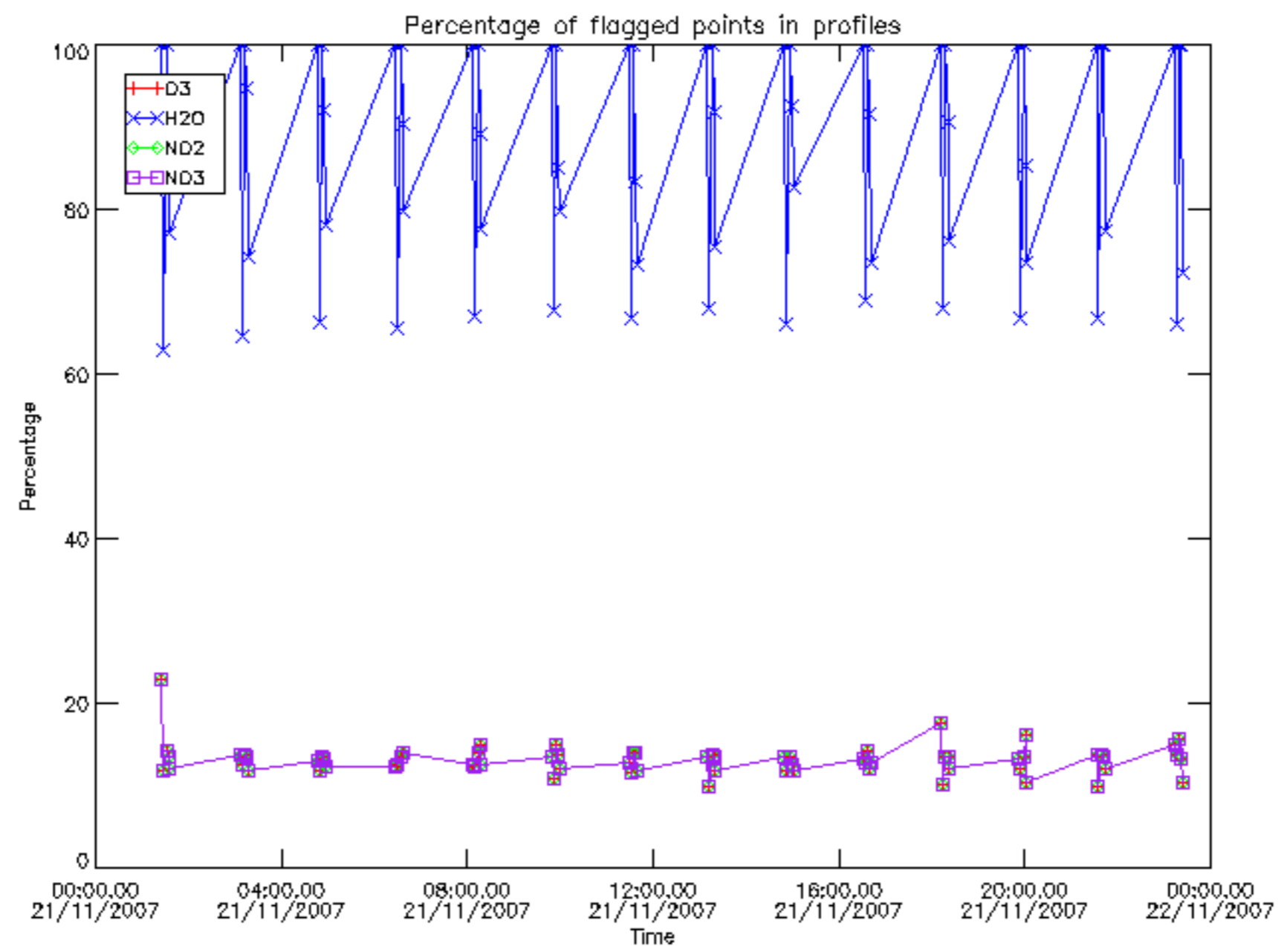


## 6. Auxiliary Data Files used for the production reported in section 2

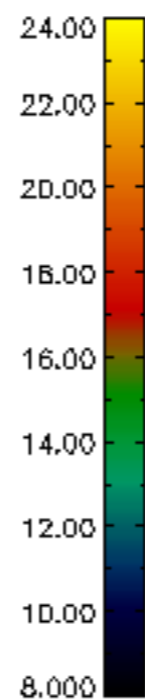
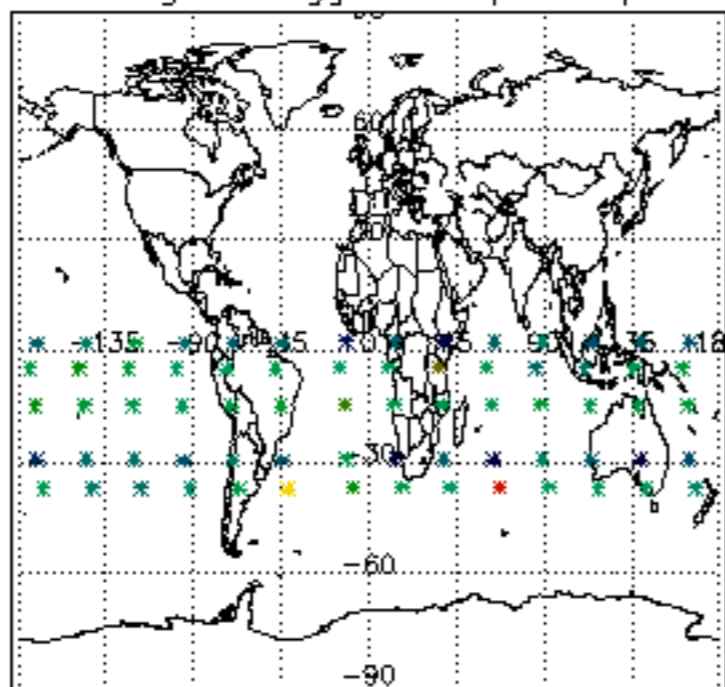
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	21-NOV-2007 00:08:59
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-NOV-2007 00:08:59
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-NOV-2007 00:08:59

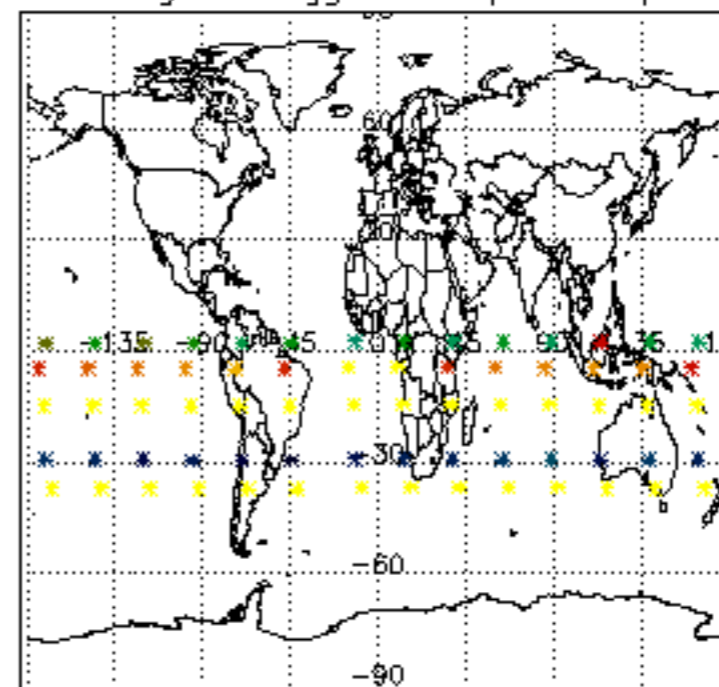




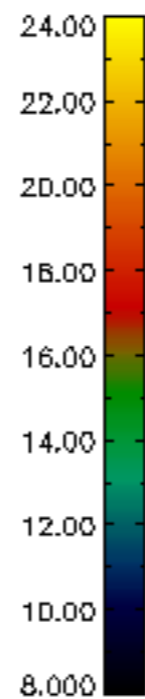
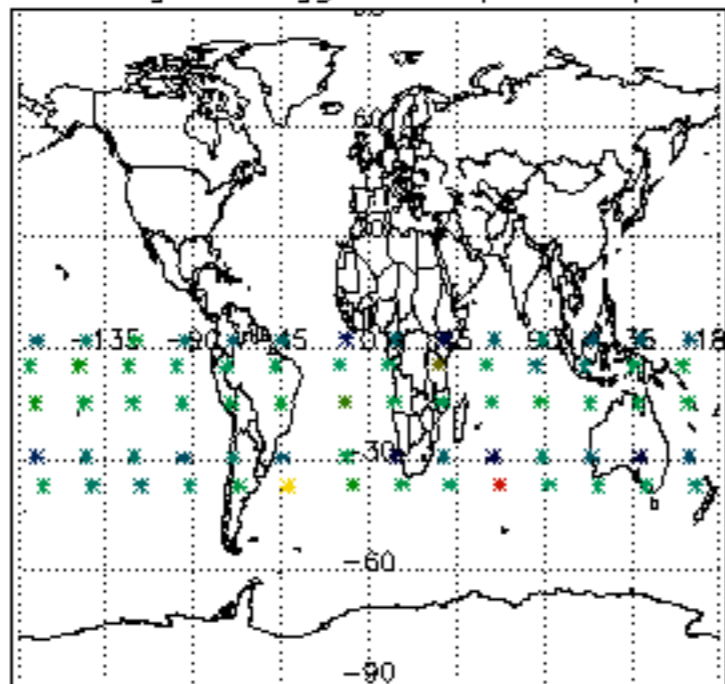
Percentage of flagged data per D3 profile



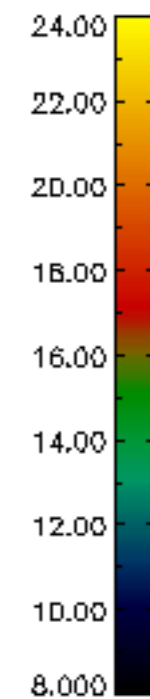
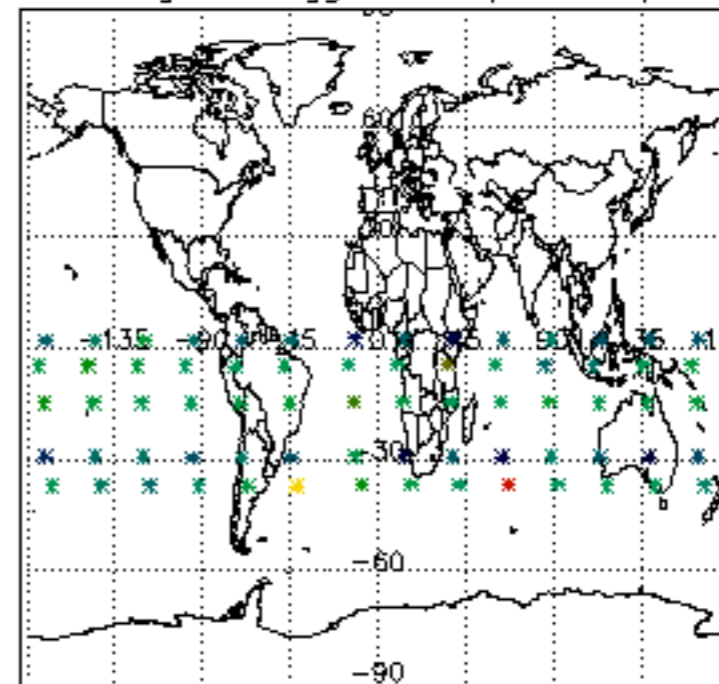
Percentage of flagged data per H2O profile

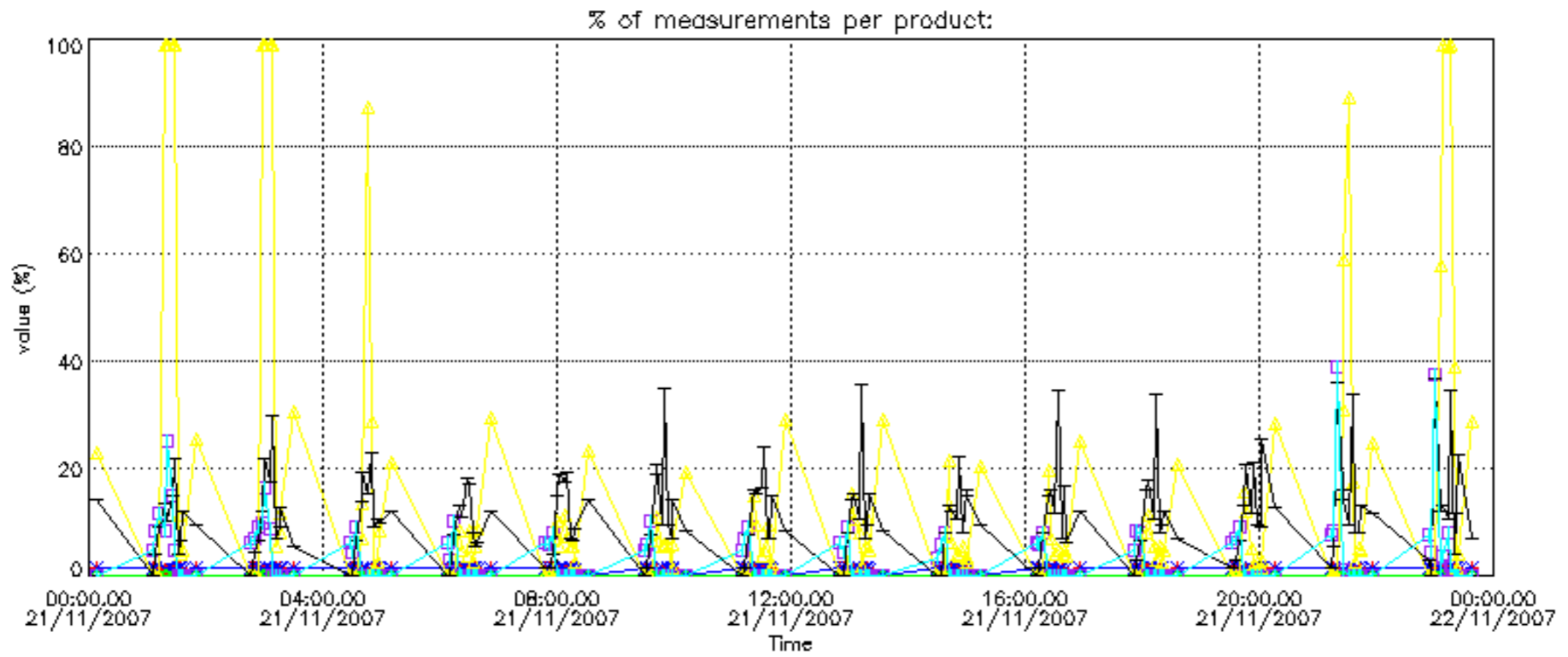


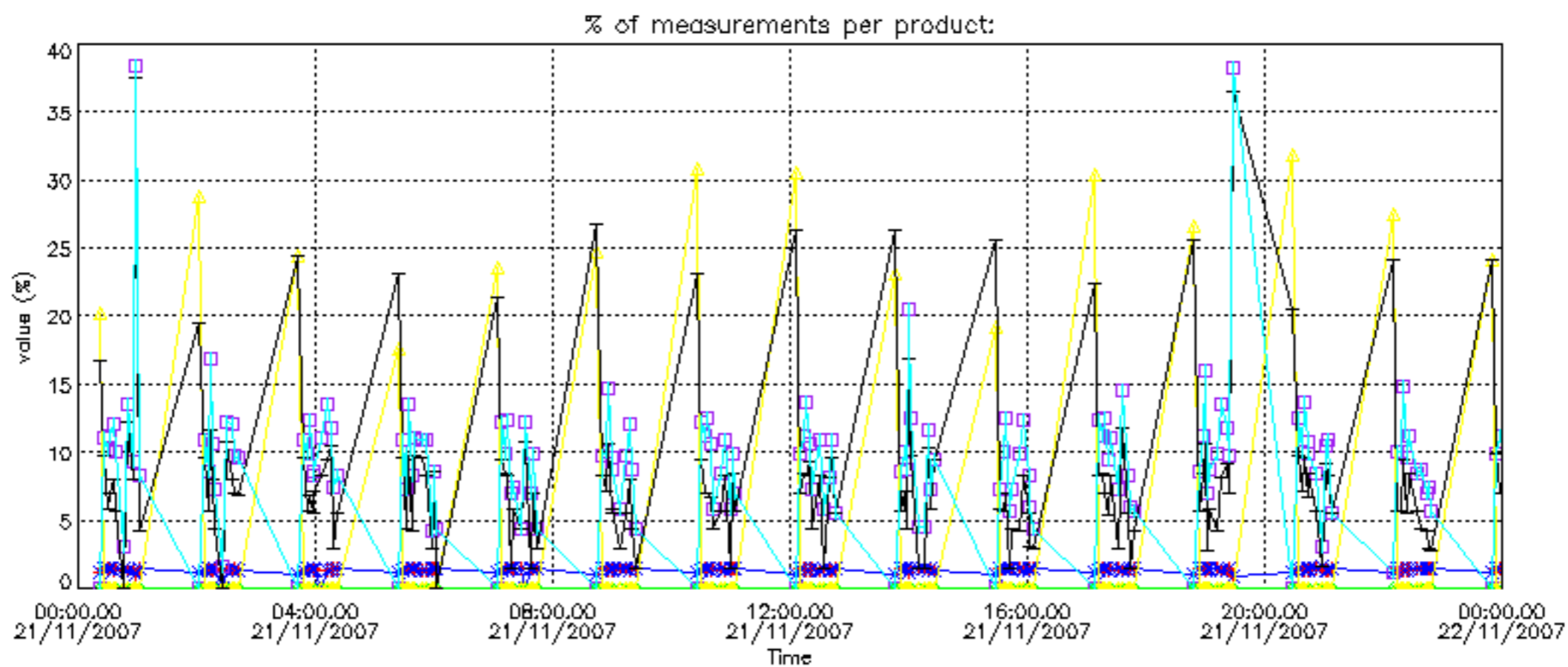
Percentage of flagged data per NO2 profile



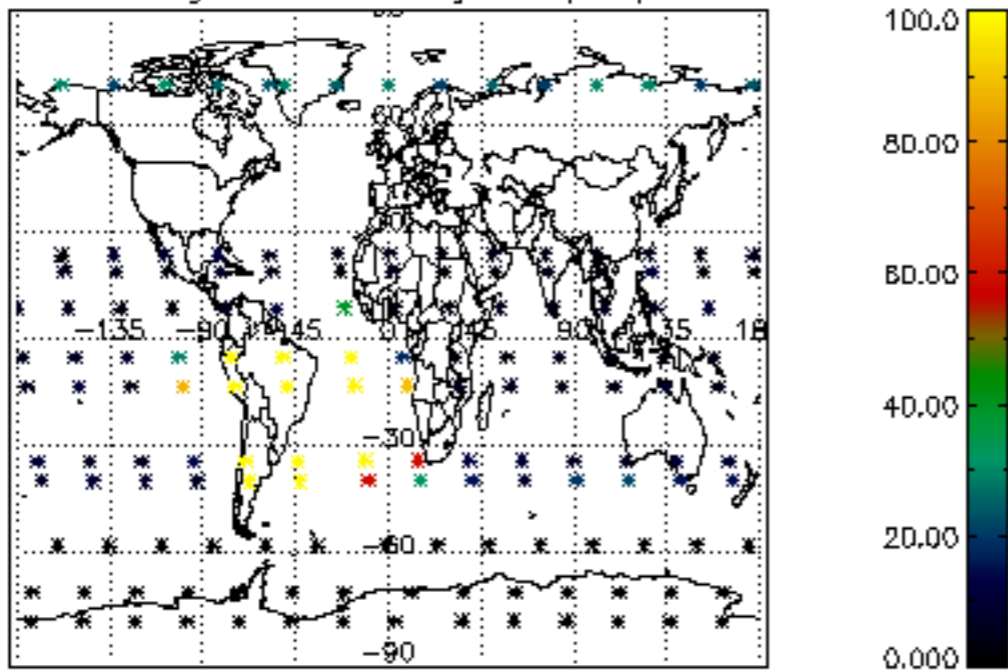
Percentage of flagged data per NO3 profile



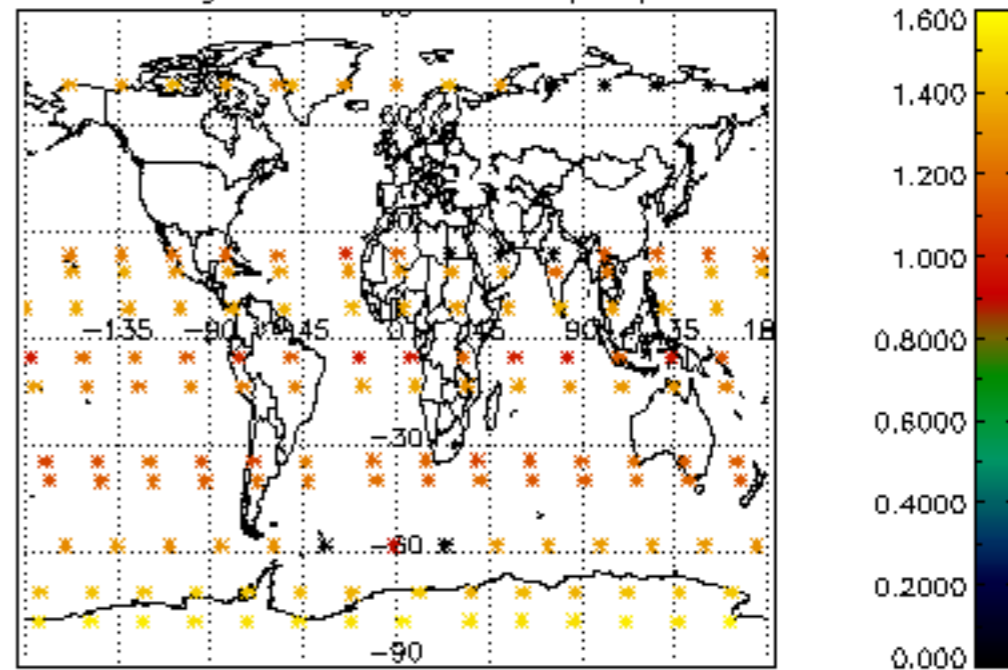




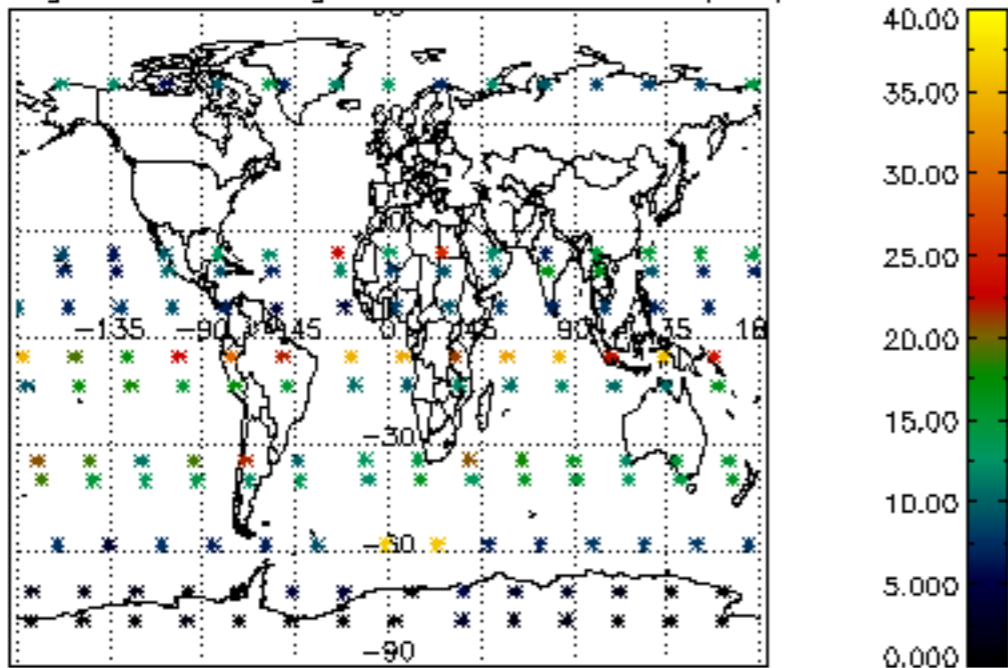
Percentage of cosmic ray hits per profile



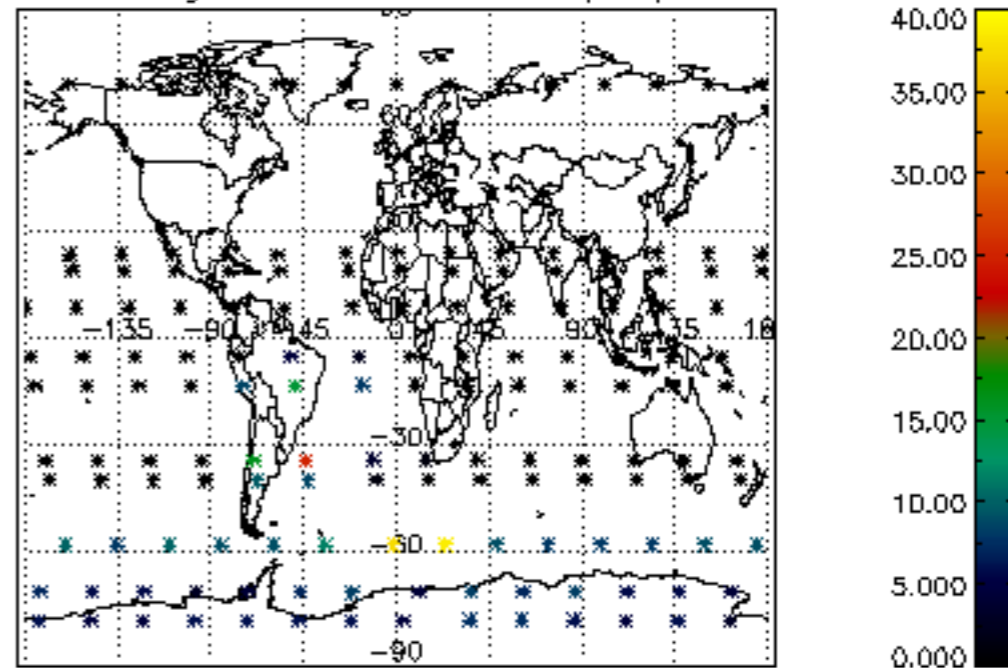
Percentage of datation errors per profile



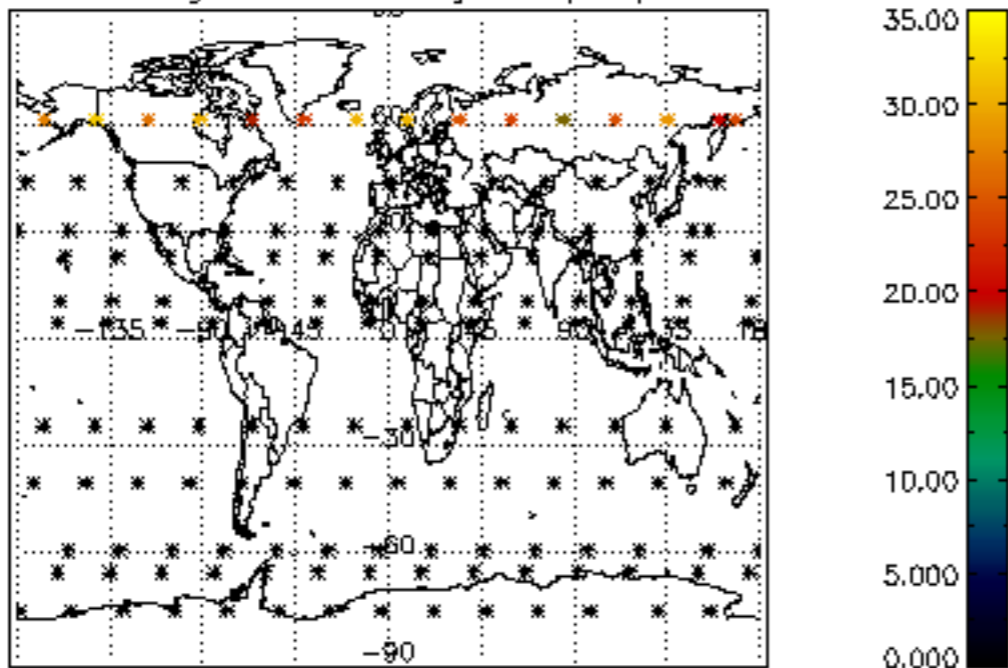
Percentage of star falling outside central band per profile



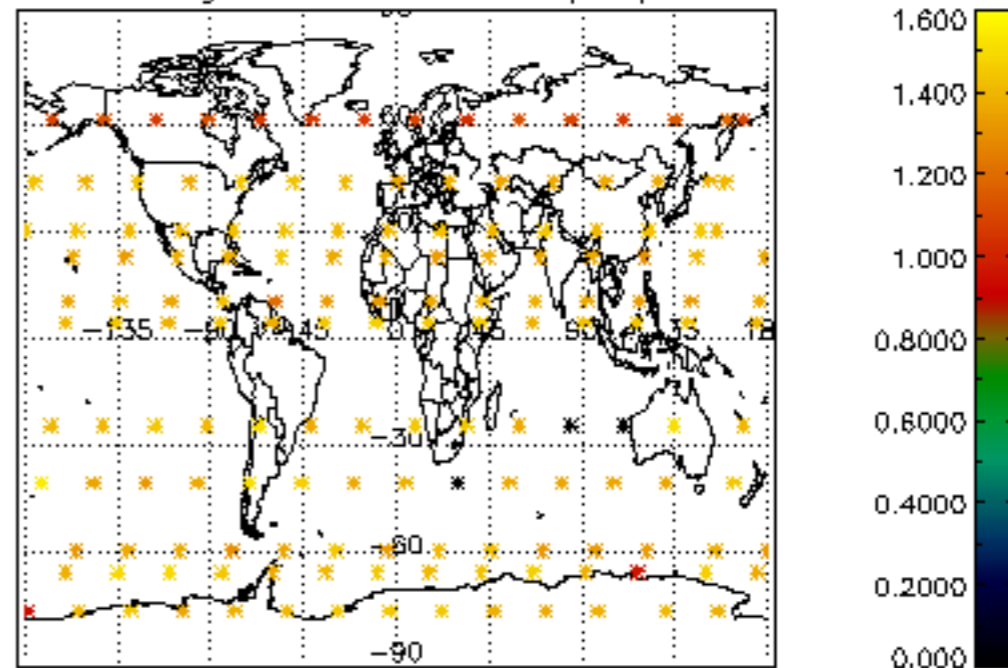
Percentage of saturation errors per profile



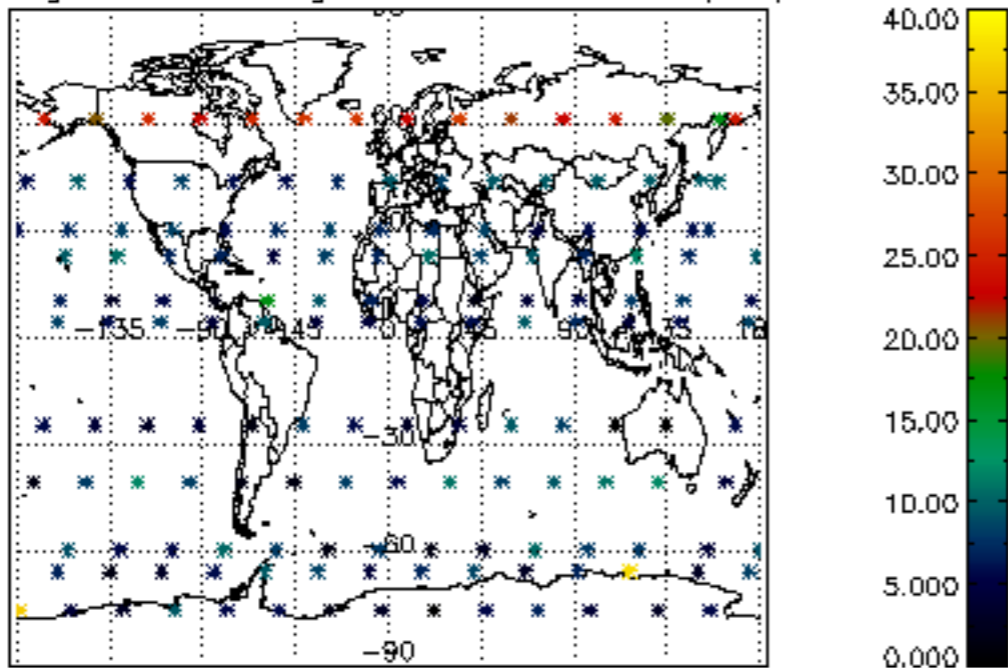
Percentage of cosmic ray hits per profile



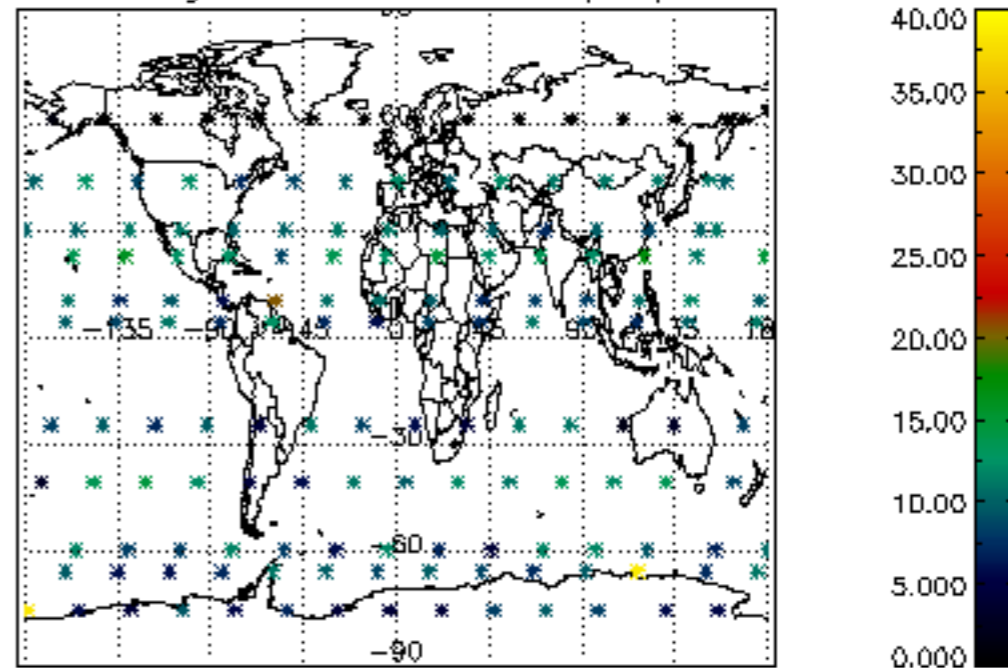
Percentage of datation errors per profile

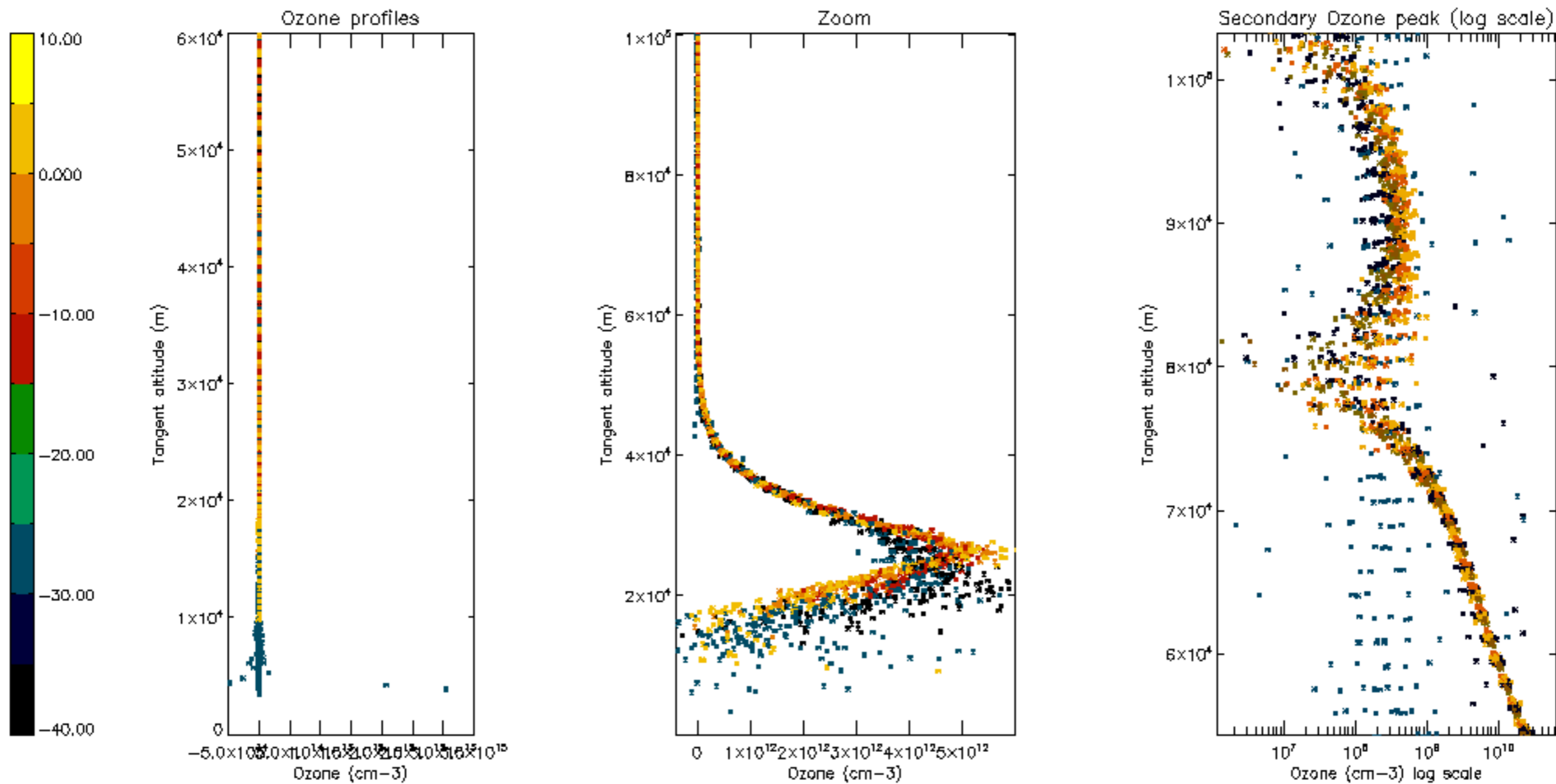


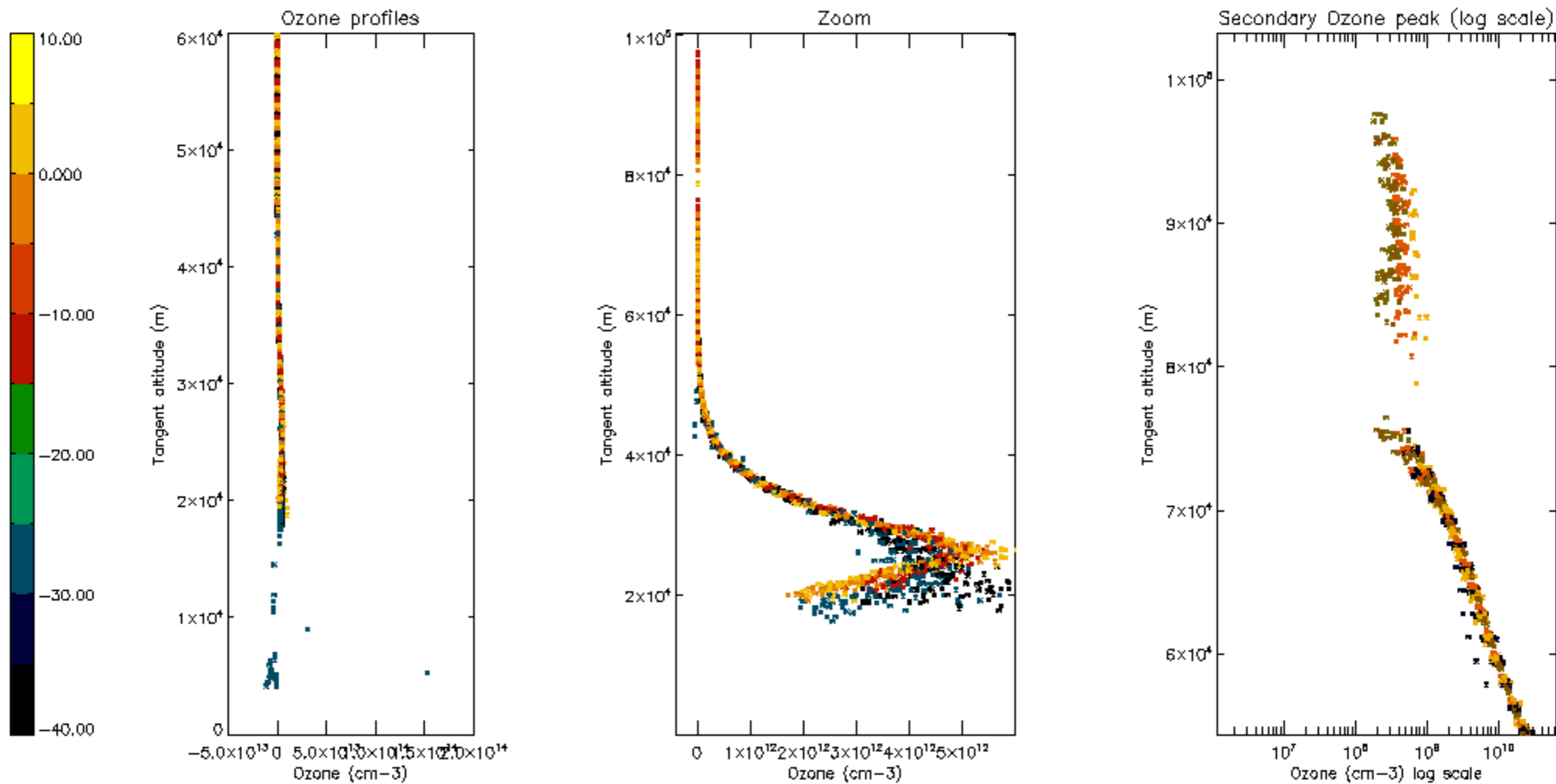
Percentage of star falling outside central band per profile



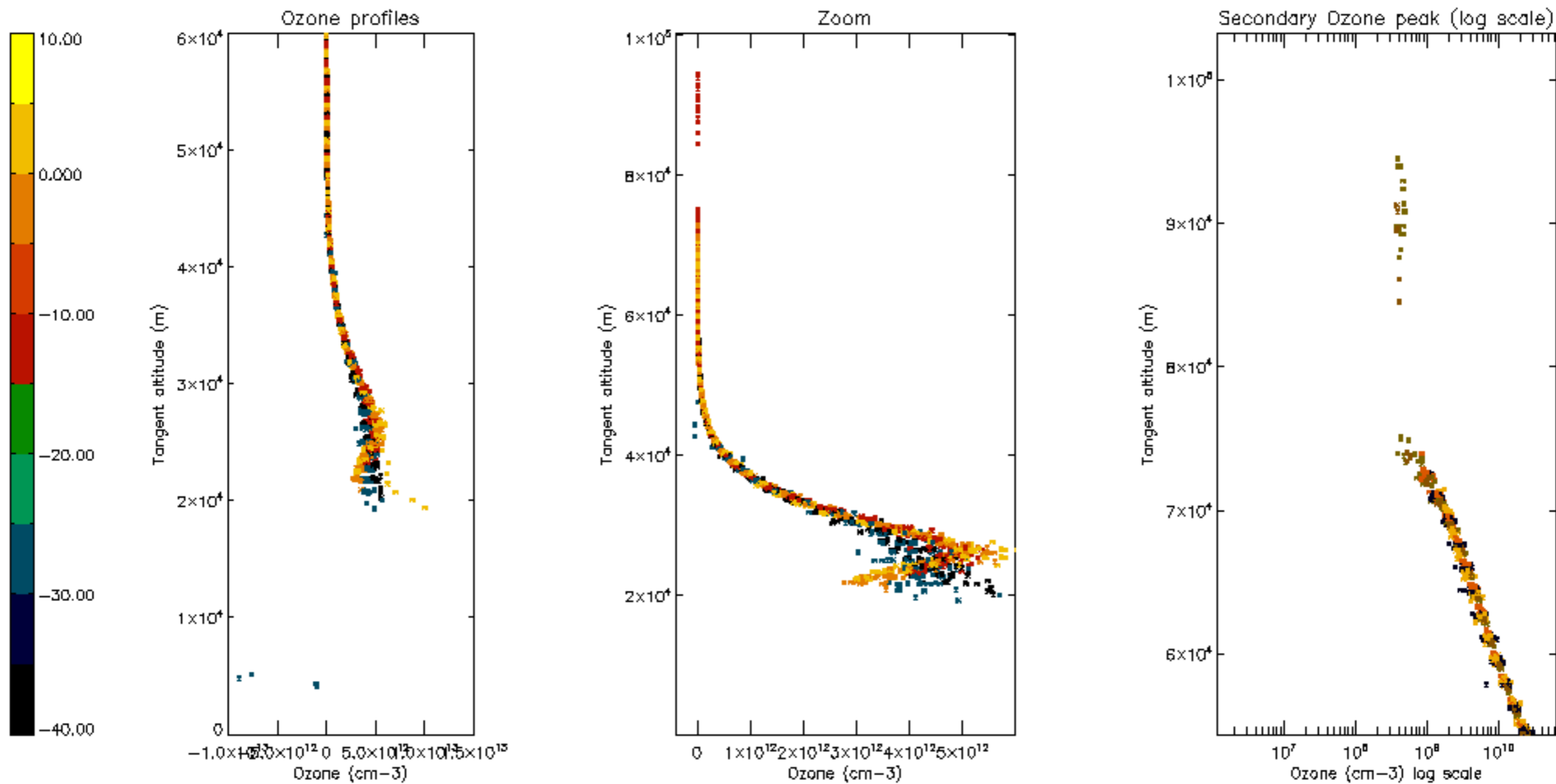
Percentage of saturation errors per profile

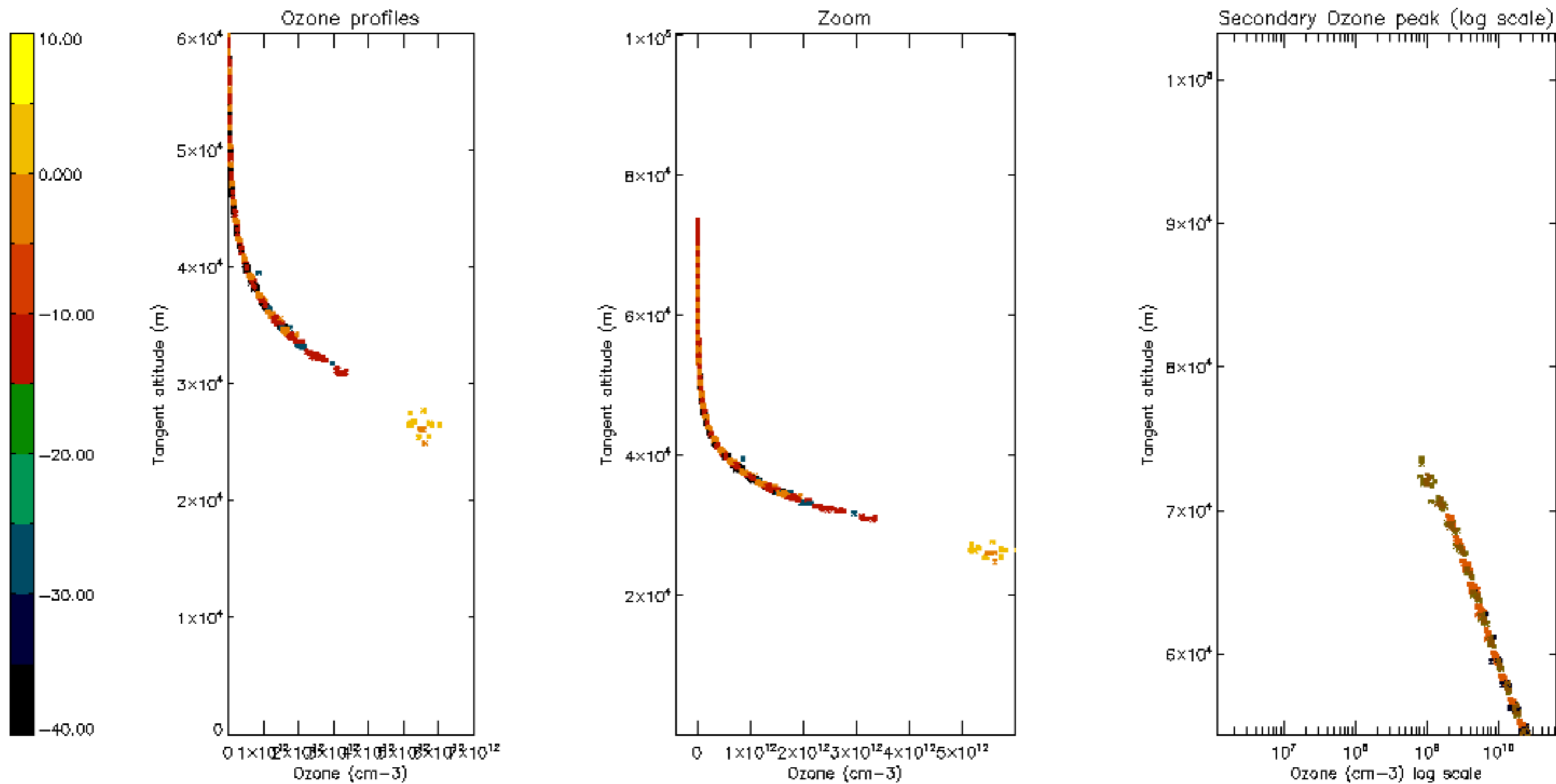


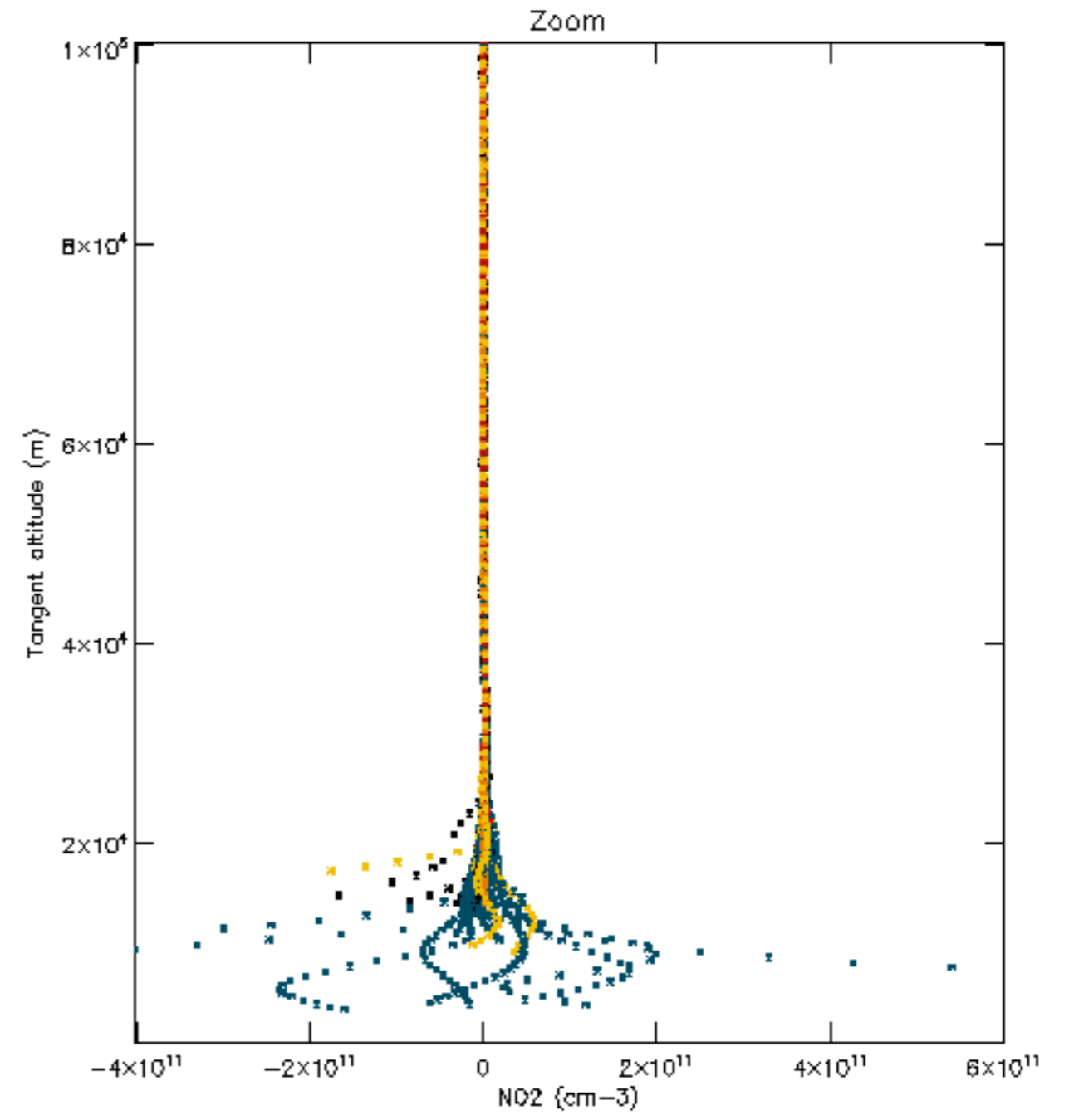
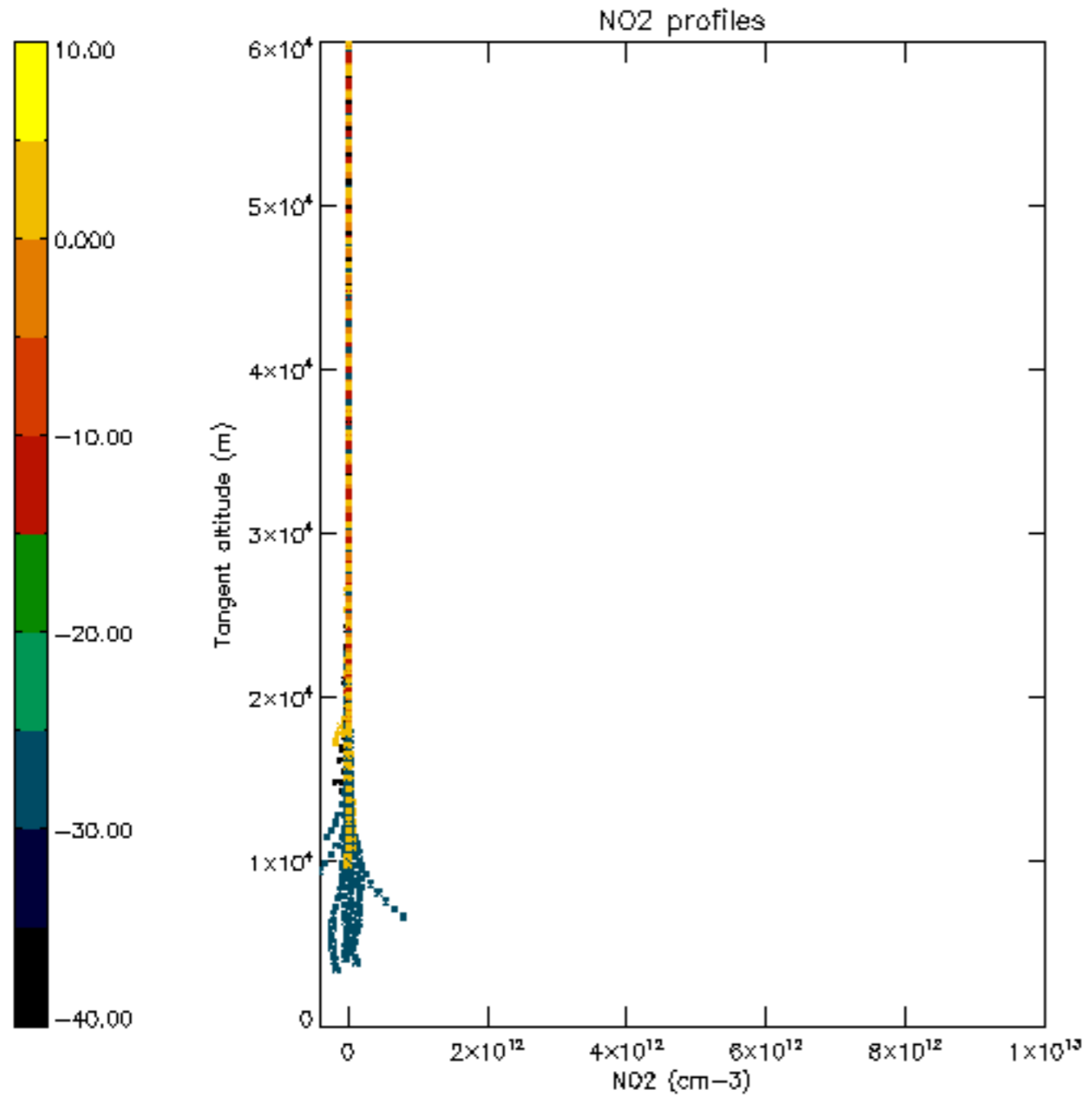


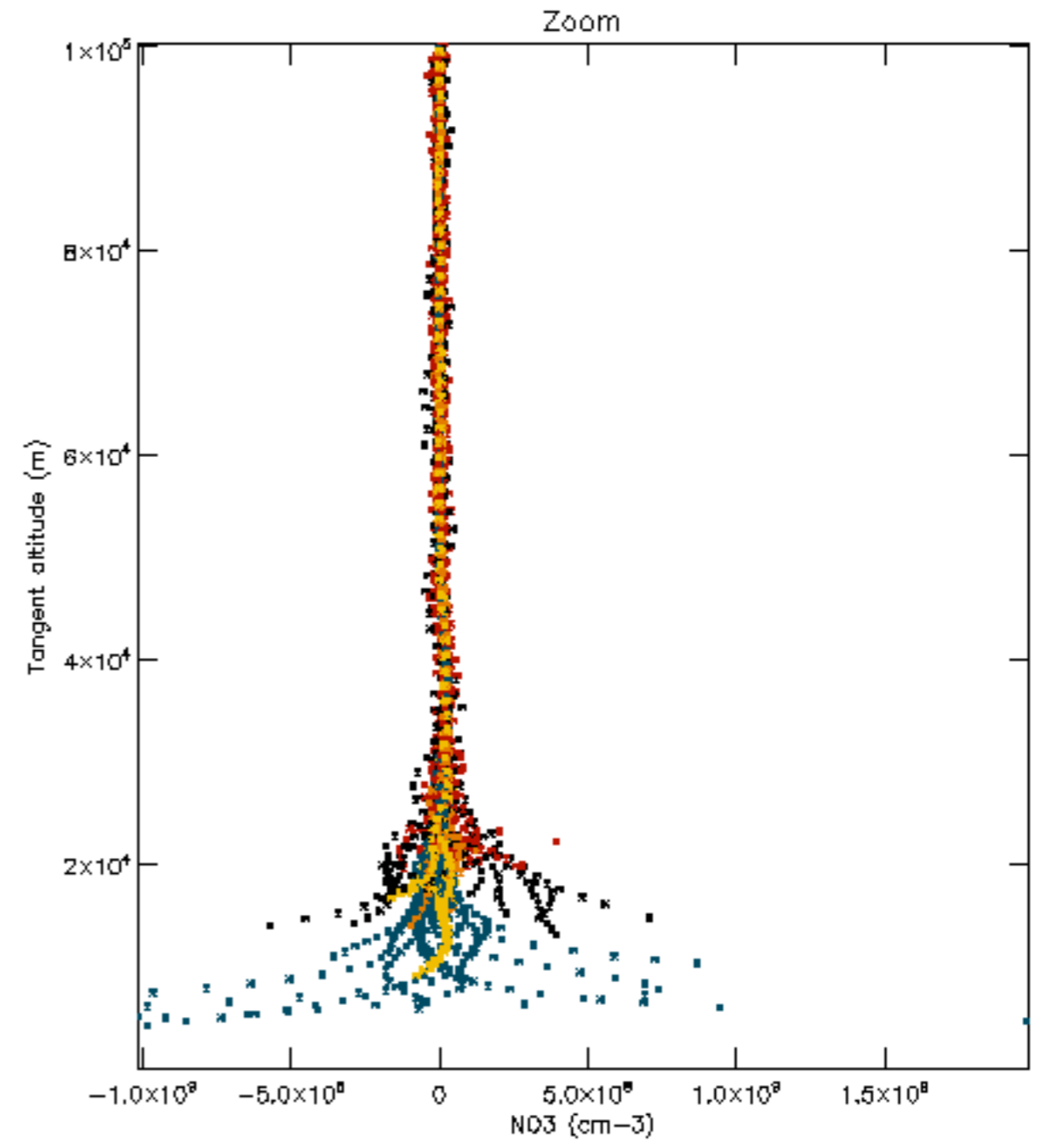
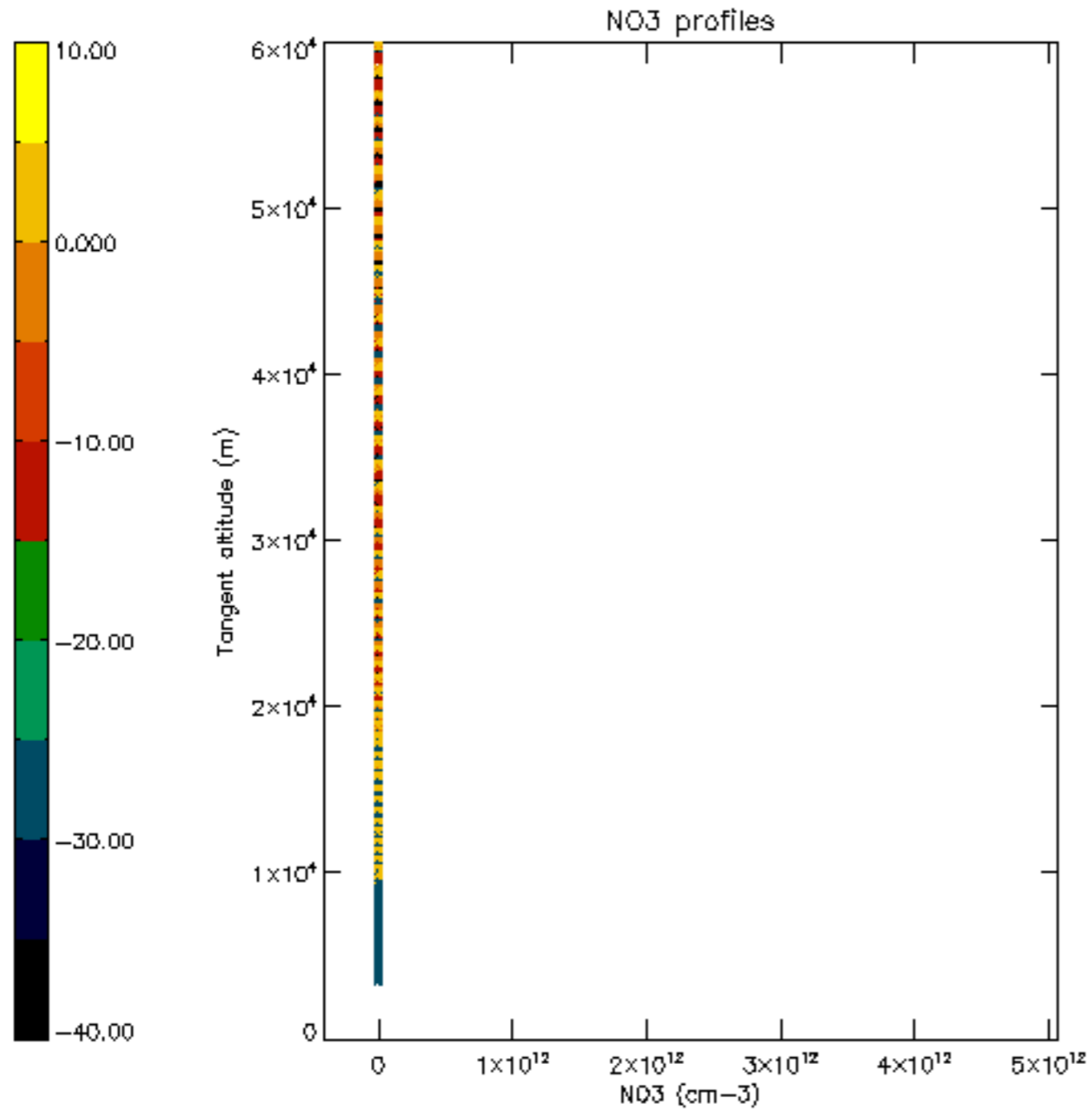


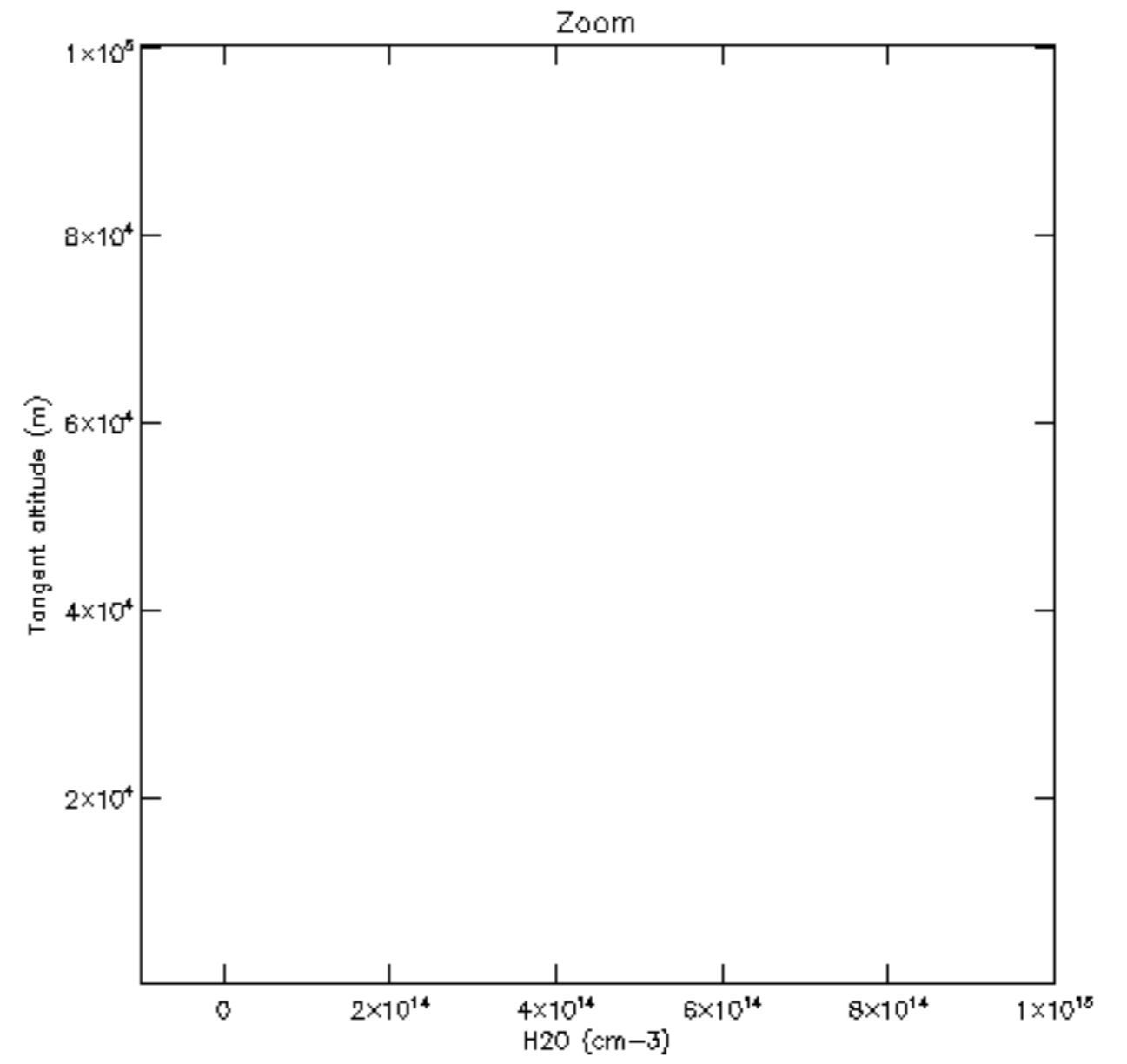
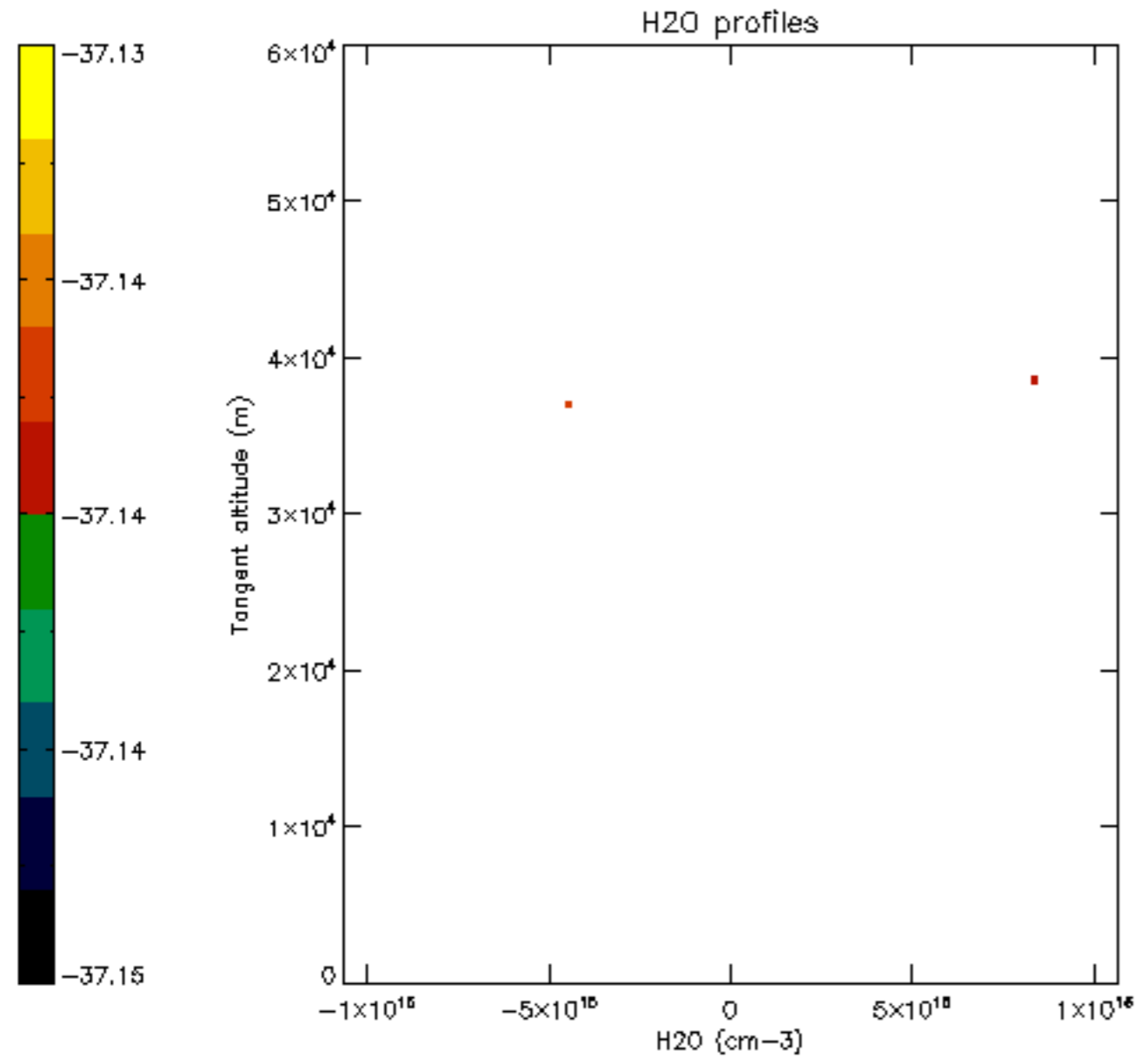


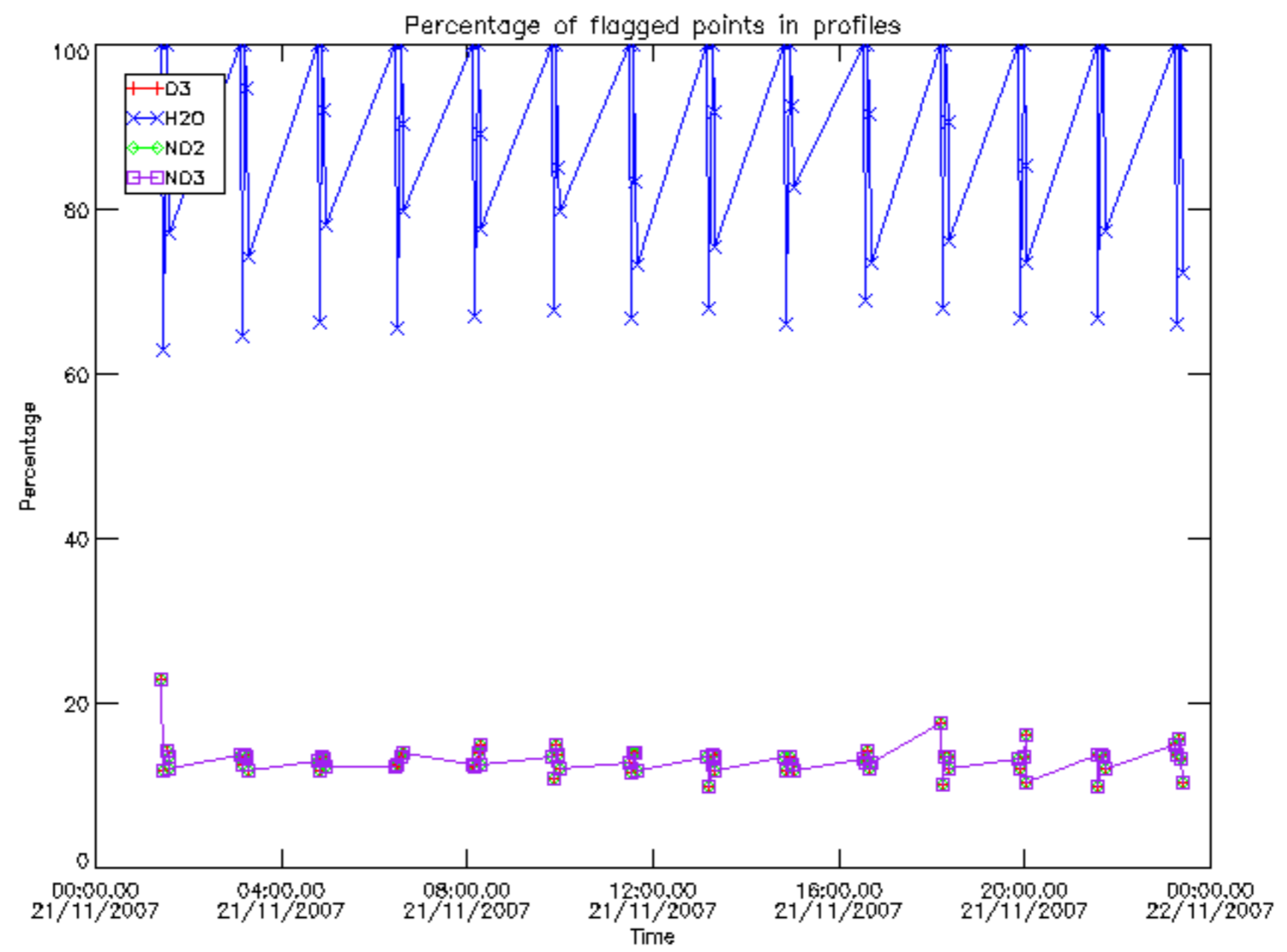




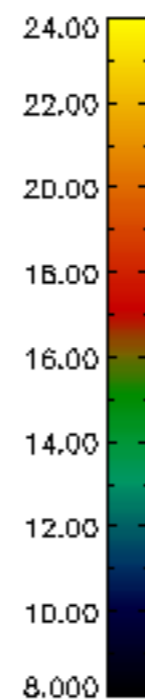
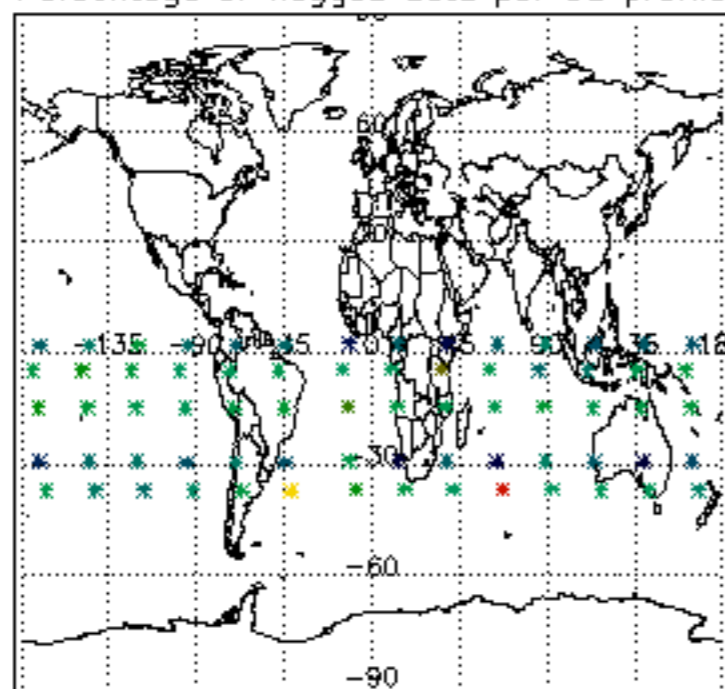




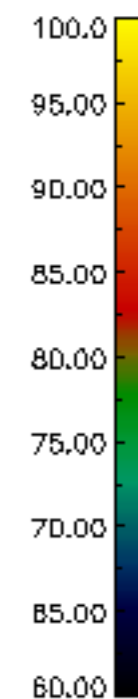
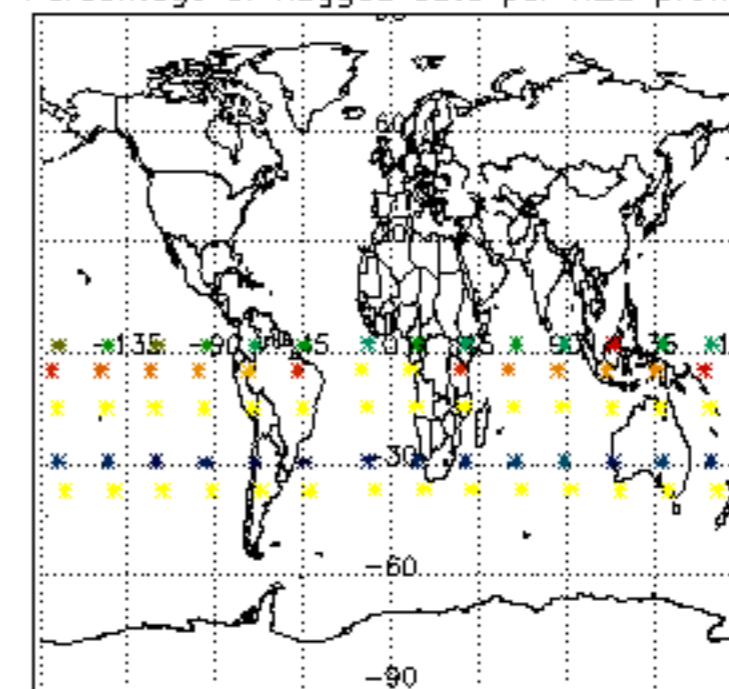




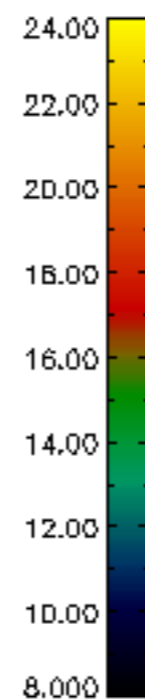
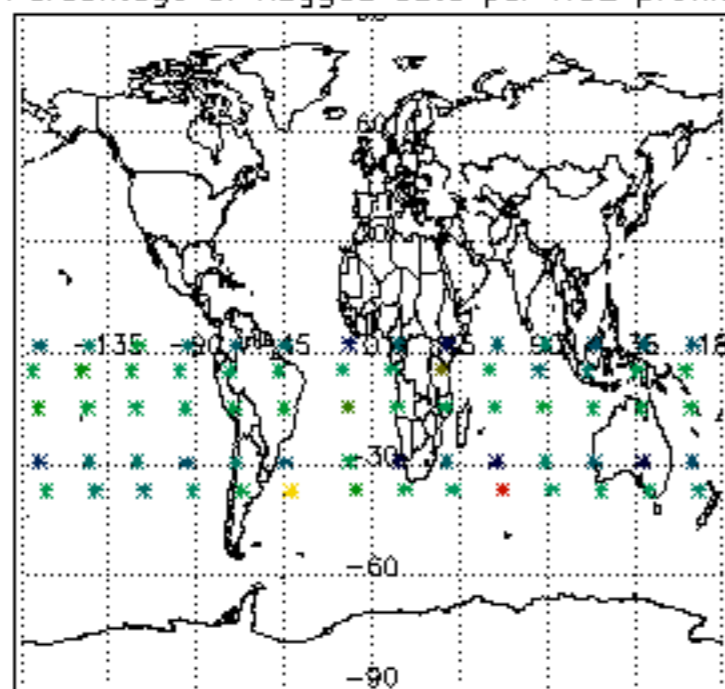
Percentage of flagged data per D3 profile



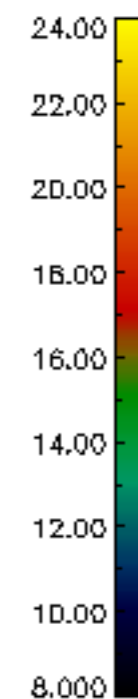
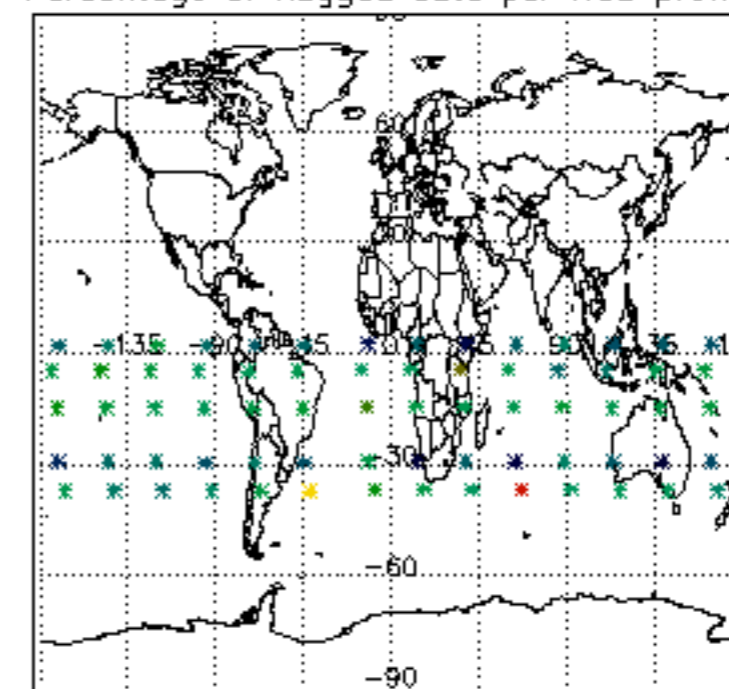
Percentage of flagged data per H2O profile

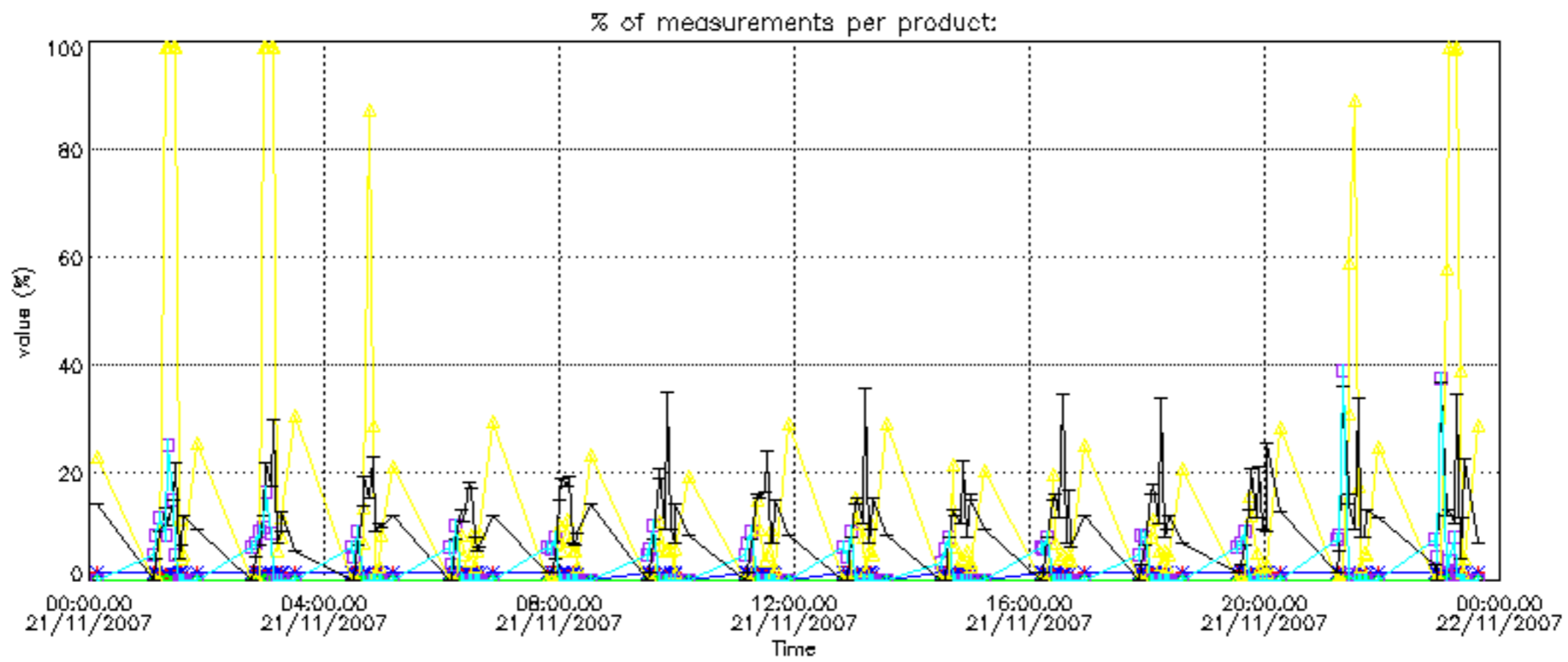


Percentage of flagged data per NO2 profile

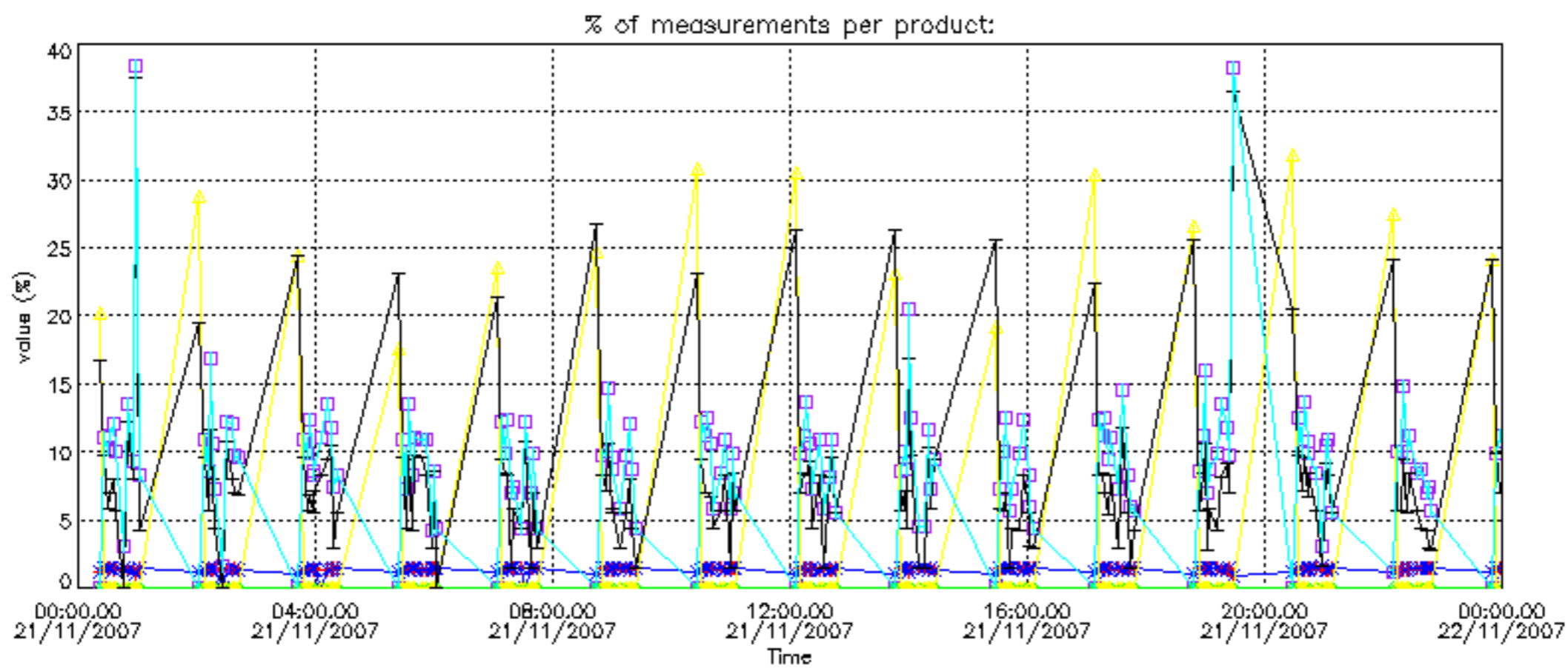


Percentage of flagged data per NO3 profile

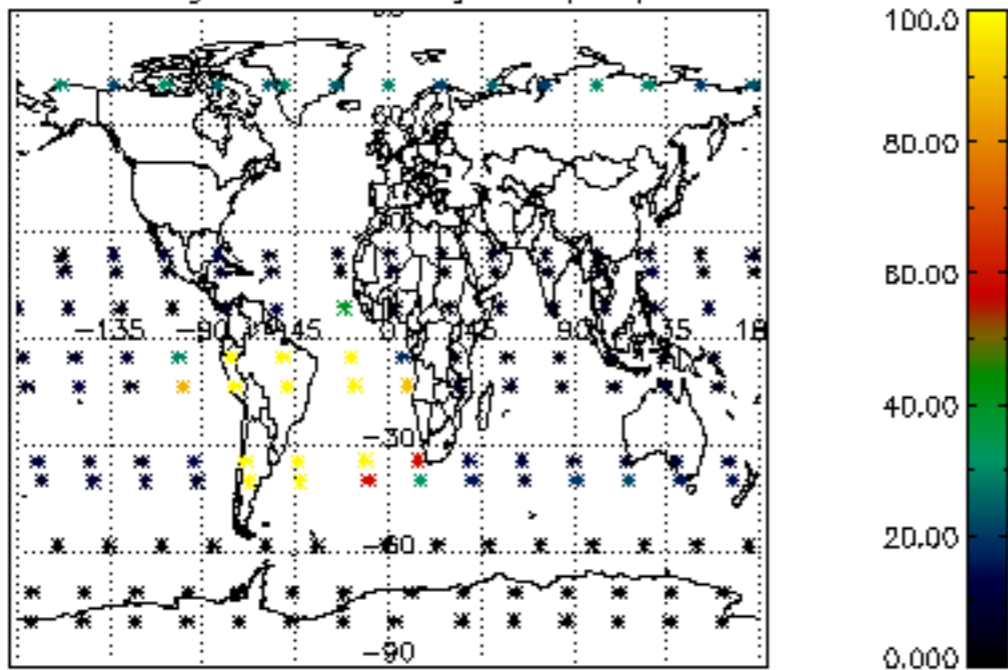




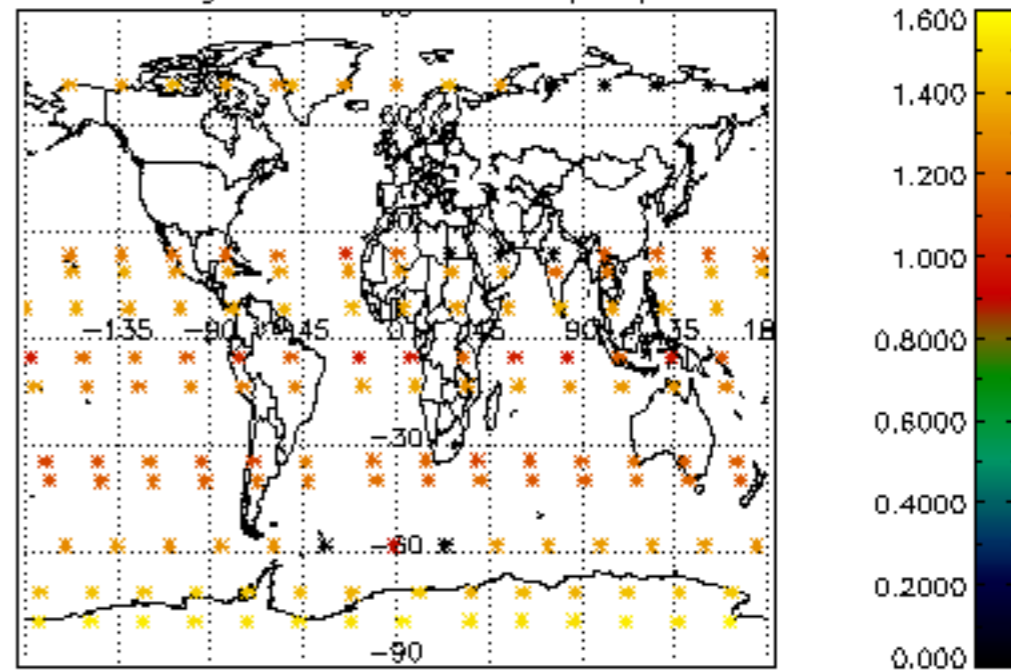




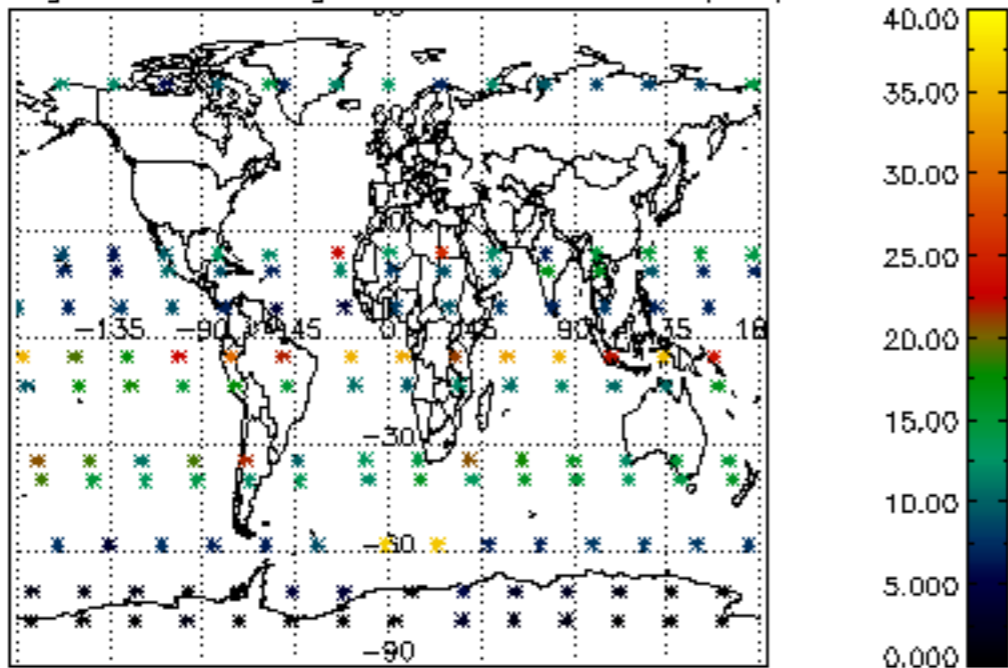
Percentage of cosmic ray hits per profile



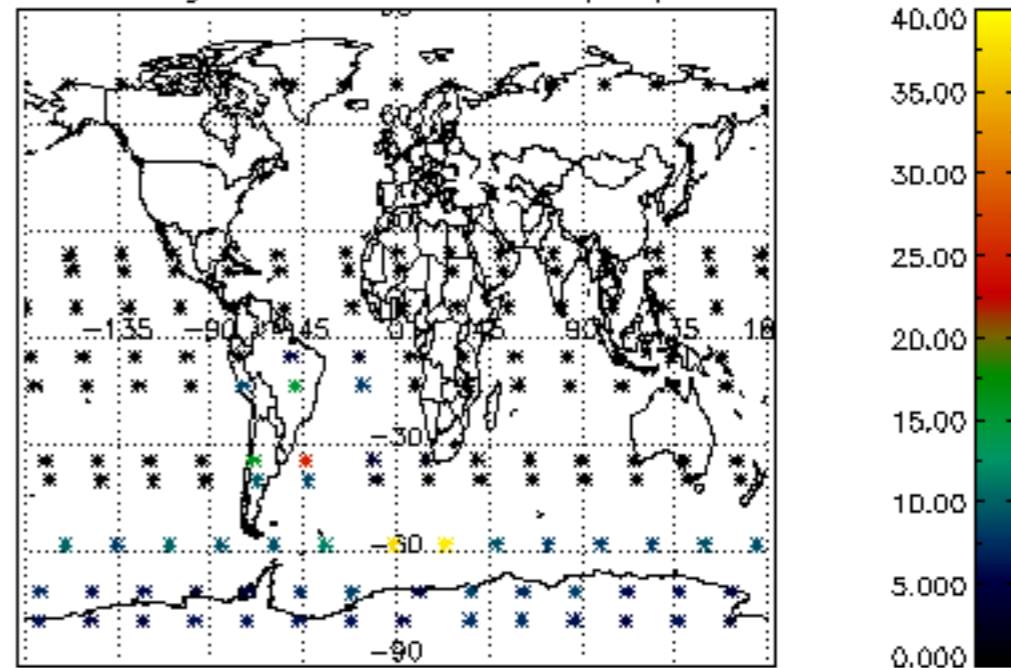
Percentage of datation errors per profile



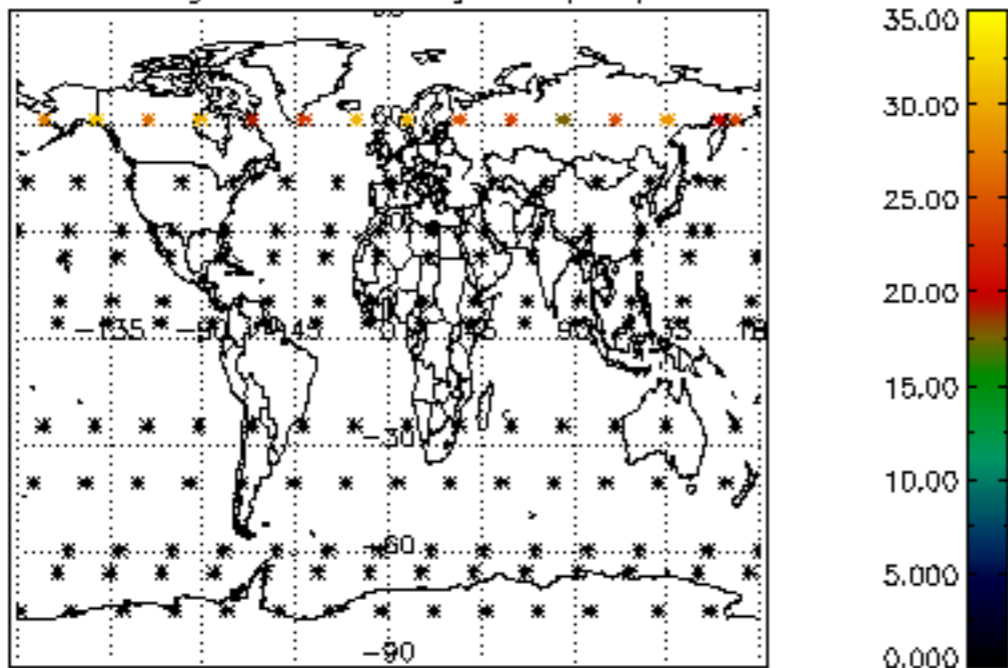
Percentage of star falling outside central band per profile



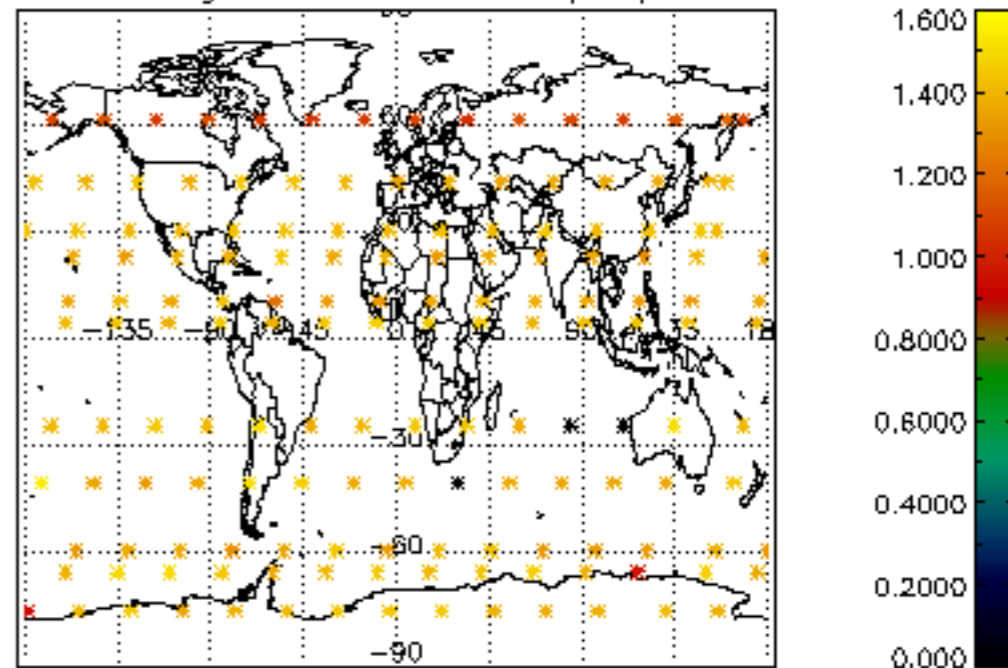
Percentage of saturation errors per profile



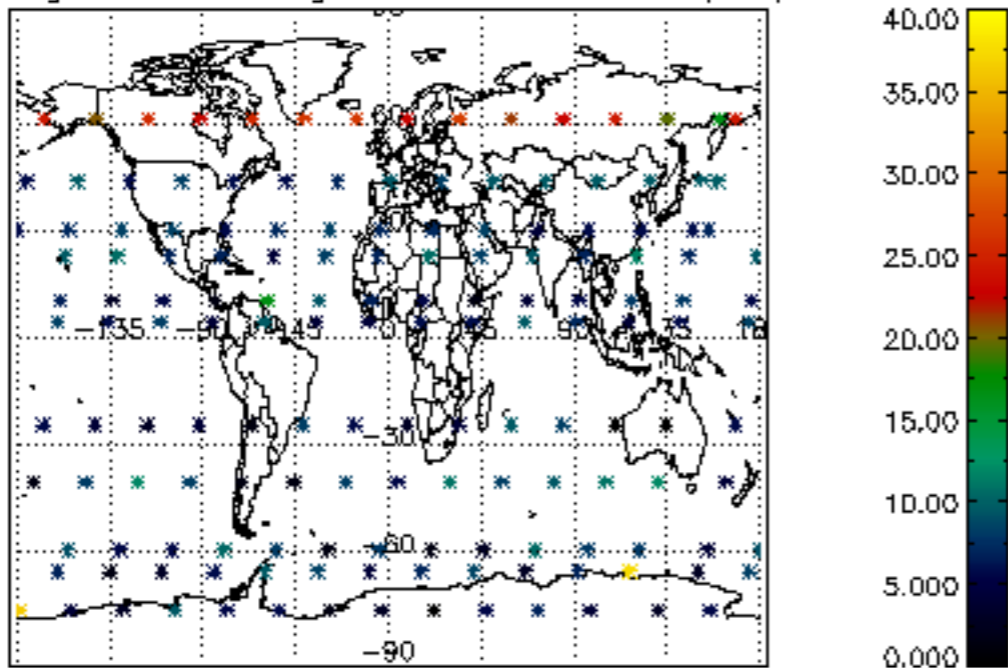
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

