

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	19APR2013 23:43:56
Data source version	GOMOS/6.01
Start time of products	10-11-2003 (10NOV2003 00:00:00)
Stop time of products	11-11-2003 (11NOV2003 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	355
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

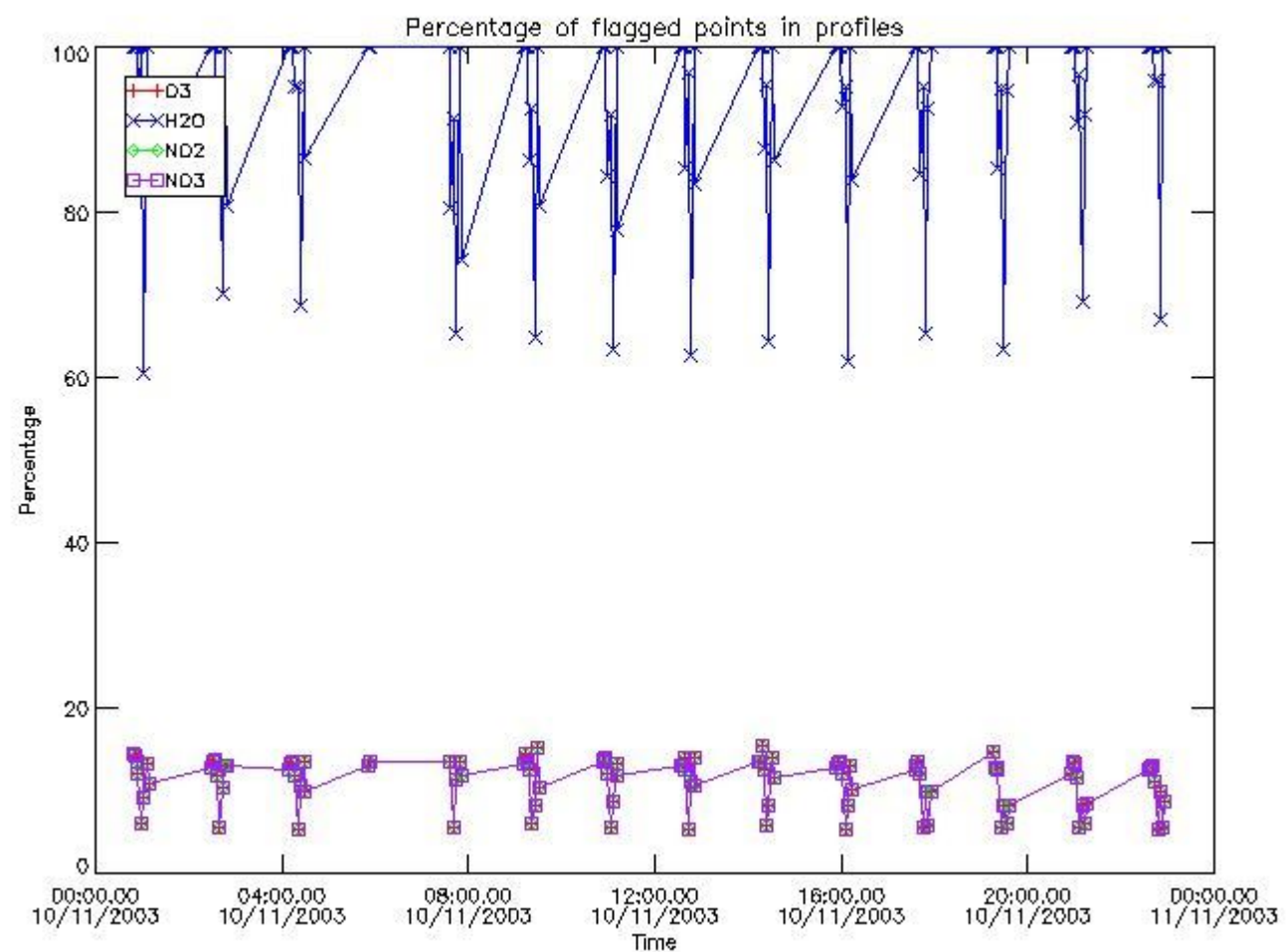
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20031110_000343_000000622021_00288_08859_3818.N1	10-NOV-2003 00:03:43	Bright	61.500	6	13Alp Aur	0.080000	3400.0	123	8859	No
2	GOM_NL__2PRFIN20031110_000829_000000362021_00288_08859_3819.N1	10-NOV-2003 00:08:29	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	8859	No
3	GOM_NL__2PRFIN20031110_001239_000000402021_00288_08859_3820.N1	10-NOV-2003 00:12:39	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	8859	No
4	GOM_NL__2PRFIN20031110_001624_000000432021_00288_08859_3821.N1	10-NOV-2003 00:16:24	Bright	43.000	36	50Alp UMa	1.8000	6300.0	86	8859	No
5	GOM_NL__2PRFIN20031110_001802_000000422021_00288_08859_3822.N1	10-NOV-2003 00:18:02	Bright	41.500	82	48Bet UMa	2.3650	10600.	83	8859	No
6	GOM_NL__2PRFIN20031110_001954_000000372021_00288_08859_3823.N1	10-NOV-2003 00:19:54	Bright	37.000	39	85Eta UMa	1.8540	24000.	74	8859	No
7	GOM_NL__2PRFIN20031110_002155_000000422021_00288_08859_3824.N1	10-NOV-2003 00:21:55	Bright	42.000	174	52Psi UMa	3.0040	4400.0	84	8859	No
8	GOM_NL__2PRFIN20031110_002325_000000362021_00288_08859_3825.N1	10-NOV-2003 00:23:25	Bright	36.000	152	12Alp2CVn	2.8900	11000.	72	8859	No
9	GOM_NL__2PRFIN20031110_003101_000000722021_00288_08859_3826.N1	10-NOV-2003 00:31:01	Bright	72.000	166	17Eps Leo	2.9800	6000.0	144	8859	No
10	GOM_NL__2PRFIN20031110_003520_000000782021_00288_08859_3827.N1	10-NOV-2003 00:35:20	Twilight	78.000	22	32Alp Leo	1.3600	15200.	156	8859	No
11	GOM_NL__2PRFIN20031110_004833_000000392021_00288_08859_3828.N1	10-NOV-2003 00:48:33	Dark	39.000	99	Del Cen	2.5750	26000.	78	8859	No
12	GOM_NL__2PRFIN20031110_005035_000000402021_00288_08859_3829.N1	10-NOV-2003 00:50:35	Dark	39.500	129	Del Cru	2.7930	26000.	79	8859	No
13	GOM_NL__2PRFIN20031110_005314_000000382021_00289_08860_4027.N1	10-NOV-2003 00:53:14	Dark	38.000	112	Alp Mus	2.6880	26000.	76	8860	No
14	GOM_NL__2PRFIN20031110_005453_000000422021_00289_08860_4028.N1	10-NOV-2003 00:54:53	Dark	42.000	71	lot Car	2.2460	7700.0	84	8860	No
15	GOM_NL__2PRFIN20031110_005905_000000952021_00289_08860_4029.N1	10-NOV-2003 00:59:05	Dark	94.500	132	15Rho Pup	2.8030	6900.0	189	8860	No
16	GOM_NL__2PRFIN20031110_010219_000000552021_00289_08860_4030.N1	10-NOV-2003 01:02:19	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	8860	No
17	GOM_NL__2PRFIN20031110_010644_000000392021_00289_08860_4031.N1	10-NOV-2003 01:06:44	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	8860	No
18	GOM_NL__2PRFIN20031110_010805_000000472021_00289_08860_4032.N1	10-NOV-2003 01:08:05	Dark	47.000	9	Alp Eri	0.45300	24000.	94	8860	No
19	GOM_NL__2PRFIN20031110_011142_000000442021_00289_08860_4033.N1	10-NOV-2003 01:11:42	Straylight	43.500	157	The1Eri	2.9060	9300.0	87	8860	No
20	GOM_NL__2PRFIN20031110_011637_0000002142021_00289_08860_4034.N1	10-NOV-2003 01:16:37	Twilight	214.00	1	9Alp CMa	-1.4400	11000.	428	8860	No
21	GOM_NL__2PRFIN20031110_012243_000001222021_00289_08860_4035.N1	10-NOV-2003 01:22:43	Twilight	121.50	7	19Bet Ori	0.10000	14000.	243	8860	No
22	GOM_NL__2PRFIN20031110_012946_000000392021_00289_08860_4036.N1	10-NOV-2003 01:29:46	Bright	39.000	105	6Bet Ari	2.6450	8900.0	78	8860	No
23	GOM_NL__2PRFIN20031110_013305_000000392021_00289_08860_4037.N1	10-NOV-2003 01:33:05	Bright	39.000	58	21Alp And	2.0730	11000.	78	8860	No
24	GOM_NL__2PRFIN20031110_013559_000000412021_00289_08860_4038.N1	10-NOV-2003 01:35:59	Bright	41.000	73	57Gam1And	2.2600	13100.	82	8860	No
25	GOM_NL__2PRFIN20031110_013811_000000462021_00289_08860_4039.N1	10-NOV-2003 01:38:11	Bright	46.000	149	45Eps Per	2.8880	30000.	92	8860	No
26	GOM_NL__2PRFIN20031110_013959_000000352021_00289_08860_4040.N1	10-NOV-2003 01:39:59	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	8860	No
27	GOM_NL__2PRFIN20031110_014417_000000612021_00289_08860_4041.N1	10-NOV-2003 01:44:17	Bright	60.500	6	13Alp Aur	0.080000	3400.0	121	8860	No
28	GOM_NL__2PRFIN20031110_014906_000000352021_00289_08860_4042.N1	10-NOV-2003 01:49:06	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	8860	No
29	GOM_NL__2PRFIN20031110_015315_000000402021_00289_08860_4043.N1	10-NOV-2003 01:53:15	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	8860	No
30	GOM_NL__2PRFIN20031110_015701_000000402021_00289_08860_4044.N1	10-NOV-2003 01:57:01	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	8860	No
31	GOM_NL__2PRFIN20031110_015838_000000592021_00289_08860_4045.N1	10-NOV-2003 01:58:38	Bright	59.000	82	48Bet UMa	2.3650	10600.	118	8860	No
32	GOM_NL__2PRFIN20031110_020031_000000522021_00289_08860_4046.N1	10-NOV-2003 02:00:31	Bright	52.000	39	85Eta UMa	1.8540	24000.	104	8860	No
33	GOM_NL__2PRFIN20031110_020231_000000422021_00289_08860_4047.N1	10-NOV-2003 02:02:31	Bright	41.500	174	52Psi UMa	3.0040	4400.0	83	8860	No
34	GOM_NL__2PRFIN20031110_020359_000000382021_00289_08860_4048.N1	10-NOV-2003 02:03:59	Bright	38.000	152	12Alp2CVn	2.8900	11000.	76	8860	No
35	GOM_NL__2PRFIN20031110_021137_000000772021_00289_08860_4049.N1	10-NOV-2003 02:11:37	Bright	76.500	166	17Eps Leo	2.9800	6000.0	153	8860	No
36	GOM_NL__2PRFIN20031110_021557_000000752021_00289_08860_4050.N1	10-NOV-2003 02:15:57	Twilight	74.500	22	32Alp Leo	1.3600	15200.	149	8860	No
37	GOM_NL__2PRFIN20031110_022909_000000402021_00289_08860_4051.N1	10-NOV-2003 02:29:09	Dark	40.000	99	Del Cen	2.5750	26000.	80	8860	No
38	GOM_NL__2PRFIN20031110_023111_000000382021_00289_08860_4052.N1	10-NOV-2003 02:31:11	Dark	38.000	129	Del Cru	2.7930	26000.	76	8860	No
39	GOM_NL__2PRFIN20031110_023350_000000372021_00290_08861_3926.N1	10-NOV-2003 02:33:50	Dark	37.000	112	Alp Mus	2.6880	26000.	74	8861	No
40	GOM_NL__2PRFIN20031110_023530_000000432021_00290_08861_3927.N1	10-NOV-2003 02:35:30	Dark	43.000	71	lot Car	2.2460	7700.0	86	8861	No
41	GOM_NL__2PRFIN20031110_023943_000000932021_00290_08861_3928.N1	10-NOV-2003 02:39:43	Dark	92.500	132	15Rho Pup	2.8030	6900.0	185	8861	No
42	GOM_NL__2PRFIN20031110_024256_000000492021_00290_08861_3929.N1	10-NOV-2003 02:42:56	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	8861	No

338	GOM_NL__2PRFIN20031110_225658_000000582021_00302_08873_3870.N1	10-NOV-2003 22:56:58	Dark	58.000	108	Alp Col	2.6520	15200.	116	8873	No
339	GOM_NL__2PRFIN20031110_225932_000000412021_00302_08873_3871.N1	10-NOV-2003 22:59:32	Straylight	40.500	157	The1Eri	2.9060	9300.0	81	8873	No
340	GOM_NL__2PRFIN20031110_230429_000002142021_00302_08873_3872.N1	10-NOV-2003 23:04:29	Twilight_stray	214.00	1	9Alp CMa	-1.4400	11000.	428	8873	No
341	GOM_NL__2PRFIN20031110_231021_000001112021_00302_08873_3873.N1	10-NOV-2003 23:10:21	Twilight_stray	110.50	7	19Bet Ori	0.10000	14000.	221	8873	No
342	GOM_NL__2PRFIN20031110_231730_000000422021_00302_08873_3874.N1	10-NOV-2003 23:17:30	Bright	41.500	105	6Bet Ari	2.6450	8900.0	83	8873	No
343	GOM_NL__2PRFIN20031110_232057_000000392021_00302_08873_3875.N1	10-NOV-2003 23:20:57	Bright	39.000	58	21Alp And	2.0730	11000.	78	8873	No
344	GOM_NL__2PRFIN20031110_232344_000000402021_00302_08873_3876.N1	10-NOV-2003 23:23:44	Bright	40.000	73	57Gam1And	2.2600	13100.	80	8873	No
345	GOM_NL__2PRFIN20031110_232547_000000472021_00302_08873_3877.N1	10-NOV-2003 23:25:47	Bright	46.500	149	45Eps Per	2.8880	30000.	93	8873	No
346	GOM_NL__2PRFIN20031110_232747_000000402021_00302_08873_3878.N1	10-NOV-2003 23:27:47	Bright	39.500	68	18Alp Cas	2.2250	4500.0	79	8873	No
347	GOM_NL__2PRFIN20031110_233149_000000612021_00302_08873_3879.N1	10-NOV-2003 23:31:49	Bright	60.500	6	13Alp Aur	0.080000	3400.0	121	8873	No
348	GOM_NL__2PRFIN20031110_233652_000000362021_00302_08873_3880.N1	10-NOV-2003 23:36:52	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	8873	No
349	GOM_NL__2PRFIN20031110_234104_000000402021_00302_08873_3881.N1	10-NOV-2003 23:41:04	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	8873	No
350	GOM_NL__2PRFIN20031110_234445_000000432021_00302_08873_3882.N1	10-NOV-2003 23:44:45	Bright	42.500	36	50Alp UMa	1.8000	6300.0	85	8873	No
351	GOM_NL__2PRFIN20031110_234624_000000412021_00302_08873_3883.N1	10-NOV-2003 23:46:24	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	8873	No
352	GOM_NL__2PRFIN20031110_234819_000000522021_00302_08873_3884.N1	10-NOV-2003 23:48:19	Bright	52.000	39	85Eta UMa	1.8540	24000.	104	8873	No
353	GOM_NL__2PRFIN20031110_235018_000000442021_00302_08873_3885.N1	10-NOV-2003 23:50:18	Bright	43.500	174	52Psi UMa	3.0040	4400.0	87	8873	No
354	GOM_NL__2PRFIN20031110_235148_000000392021_00302_08873_3886.N1	10-NOV-2003 23:51:48	Bright	38.500	152	12Alp2CVn	2.8900	11000.	77	8873	No
355	GOM_NL__2PRFIN20031110_235933_000000762021_00302_08873_3887.N1	10-NOV-2003 23:59:33	Bright	76.000	166	17Eps Leo	2.9800	6000.0	152	8873	No

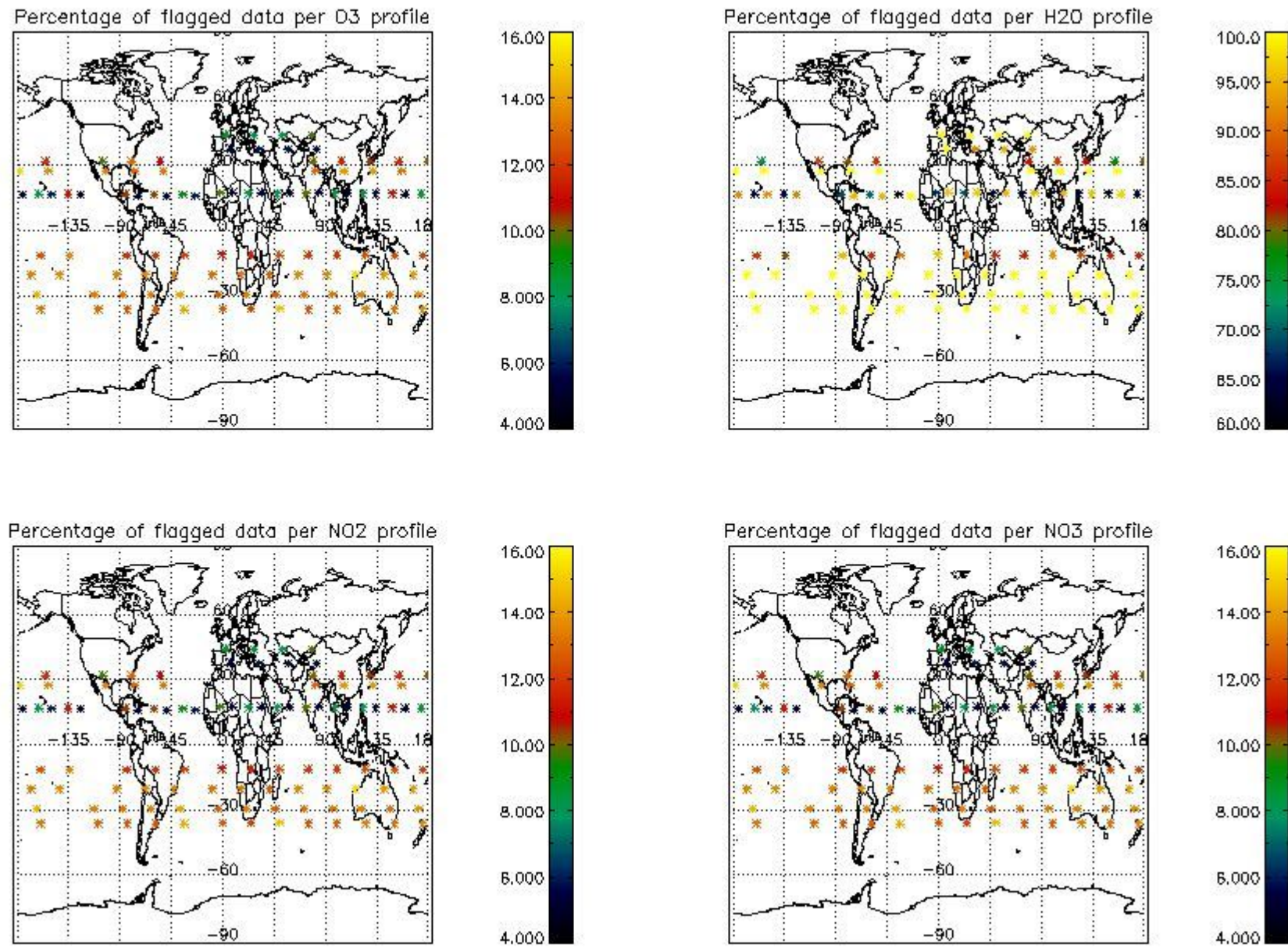
3. Quality information per product

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)

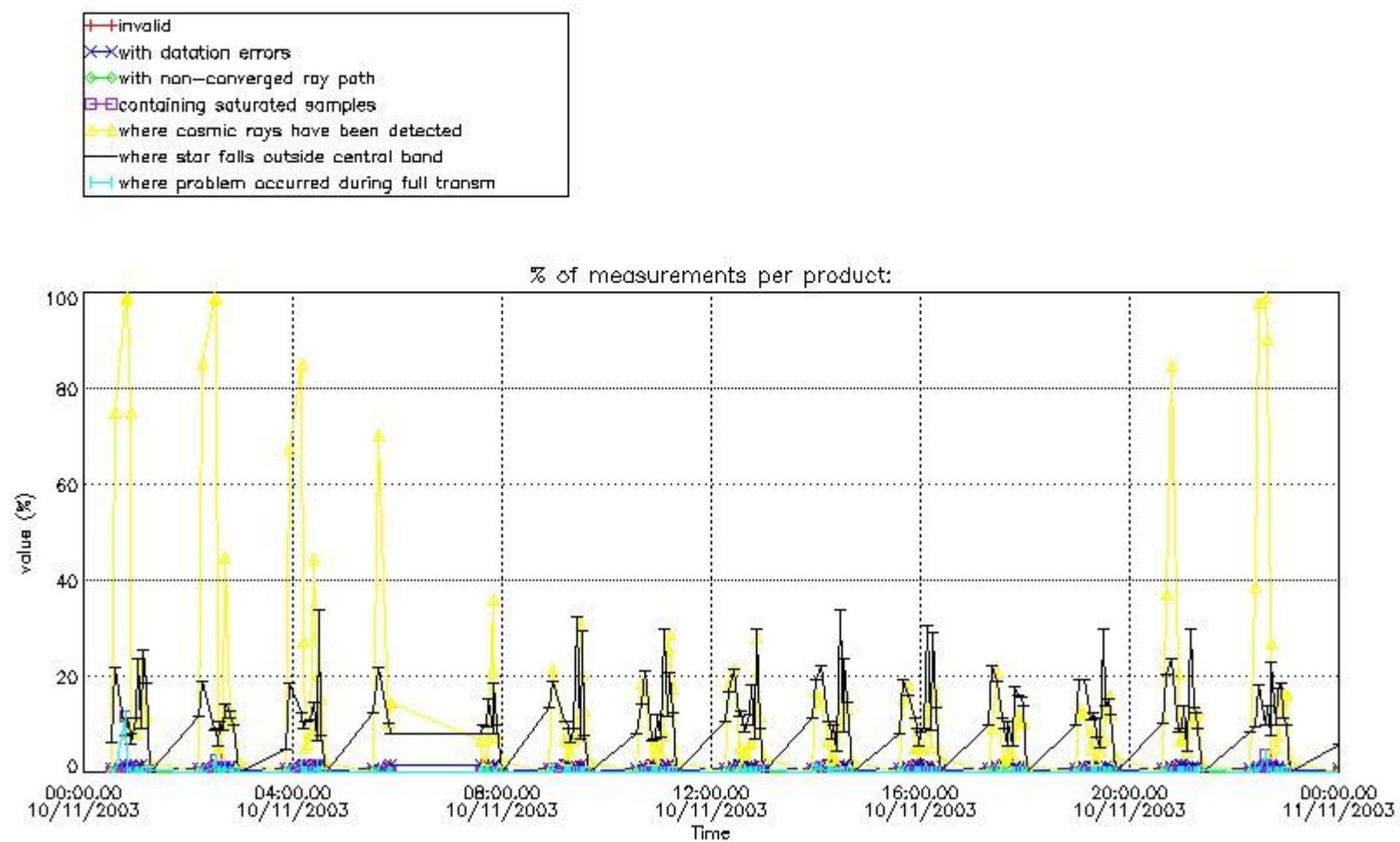


4. Level 1 quality information per product

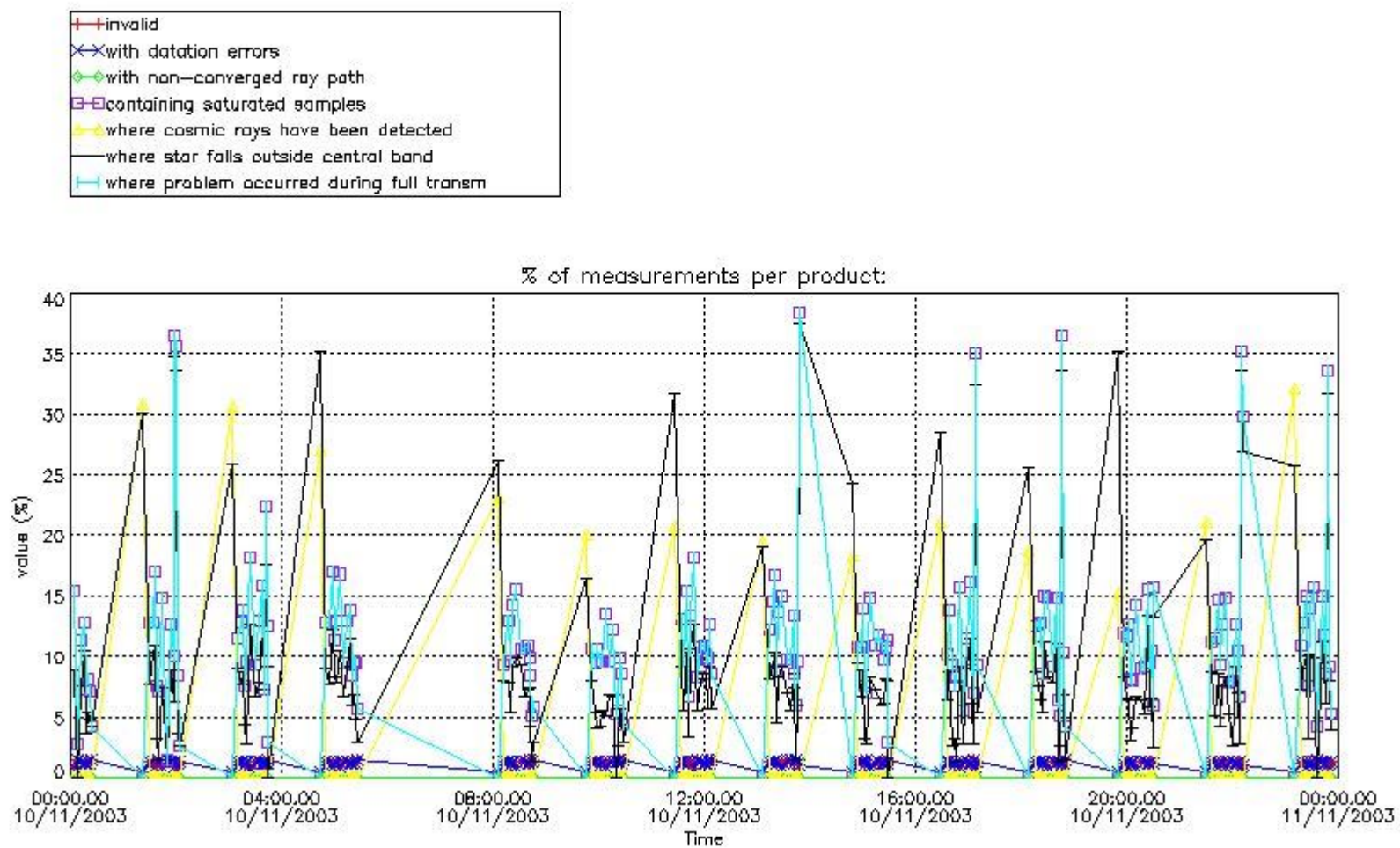
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

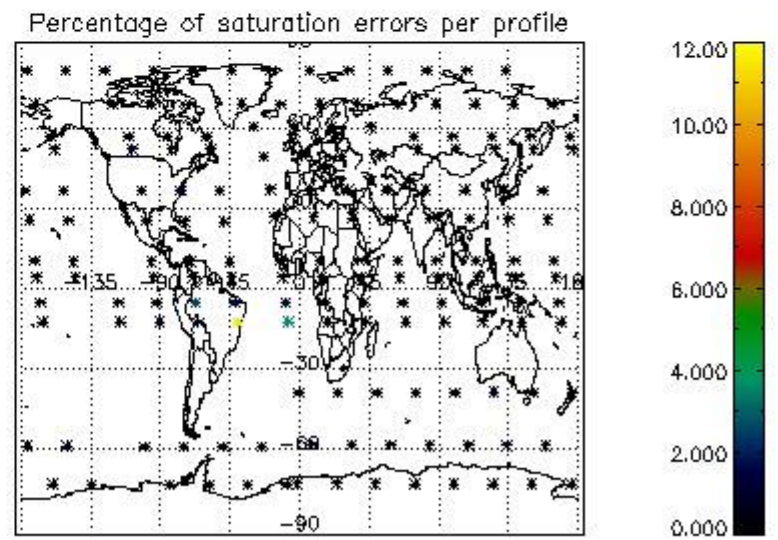
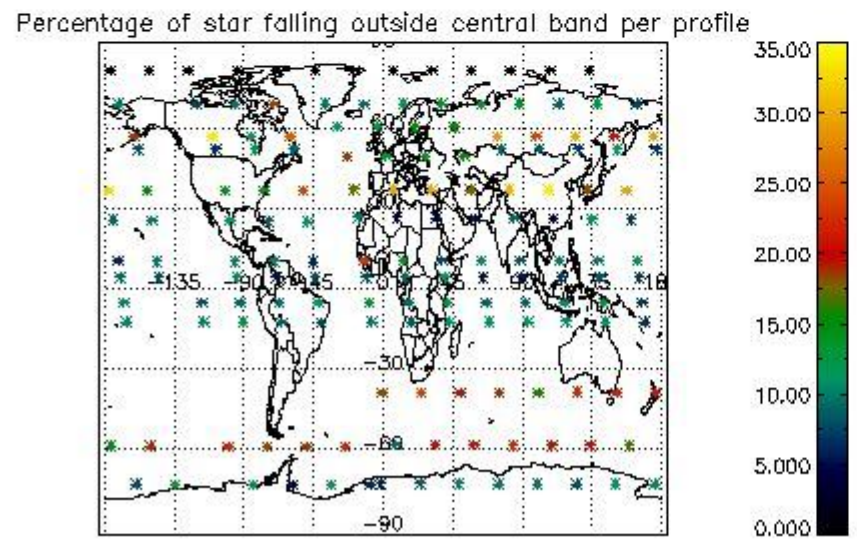
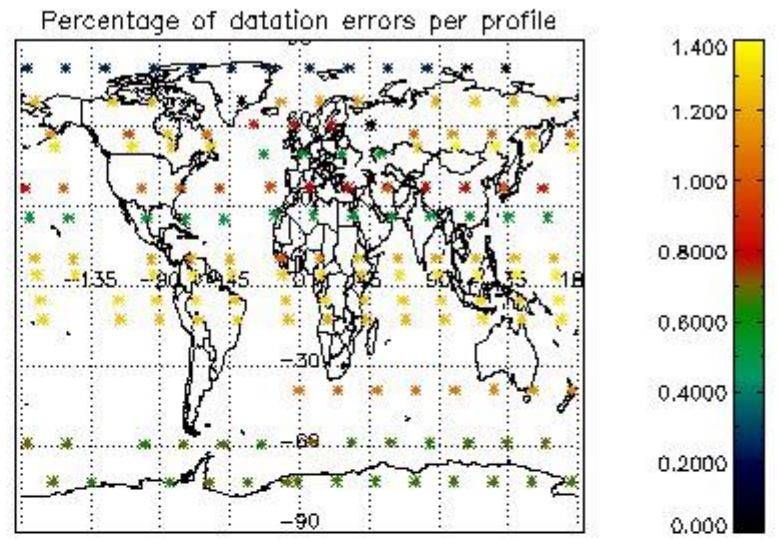
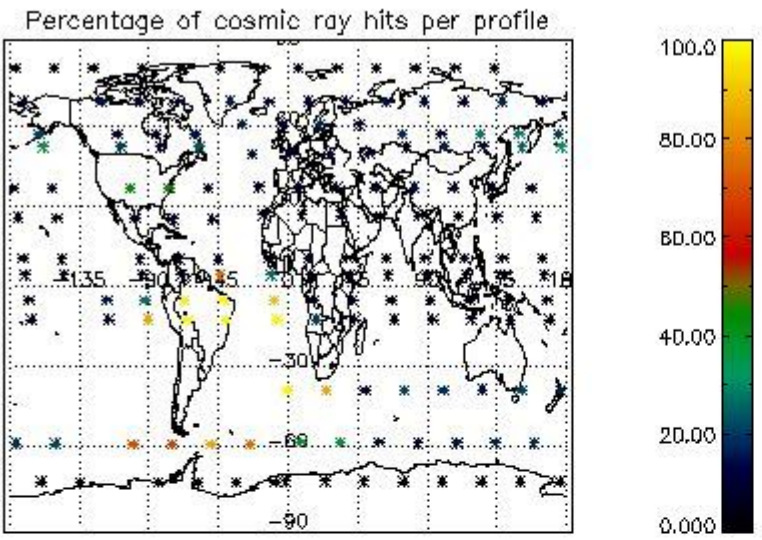


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

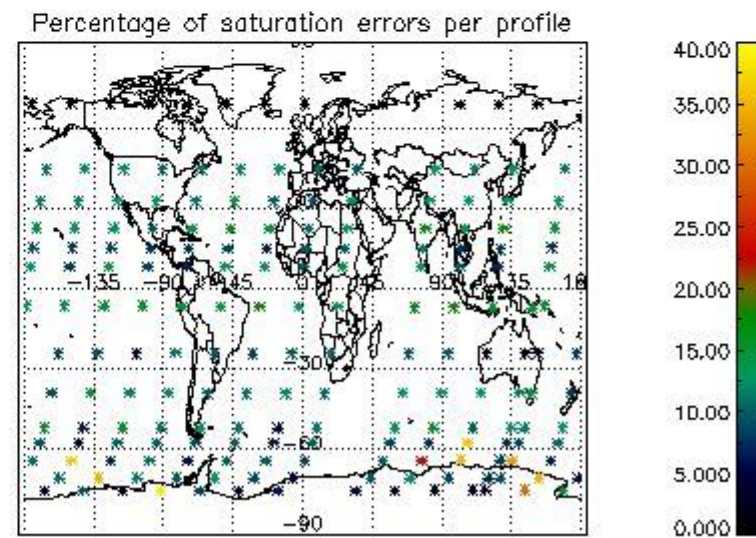
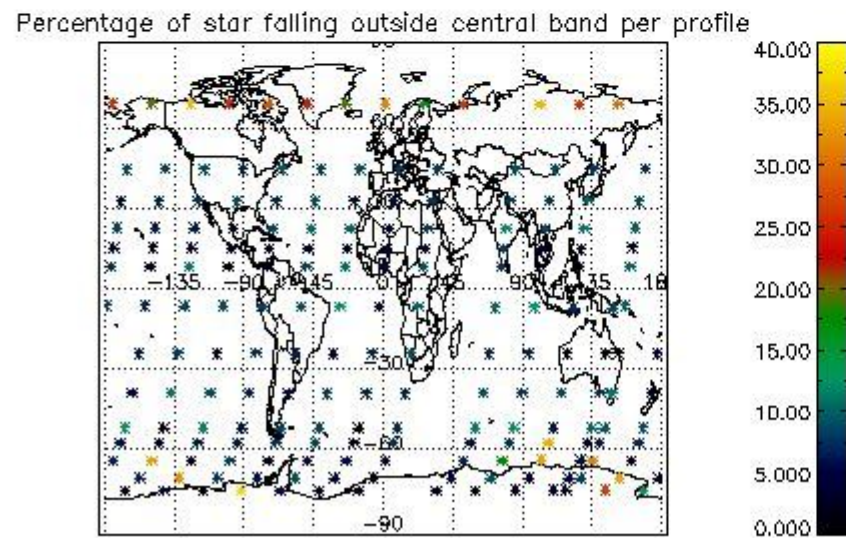
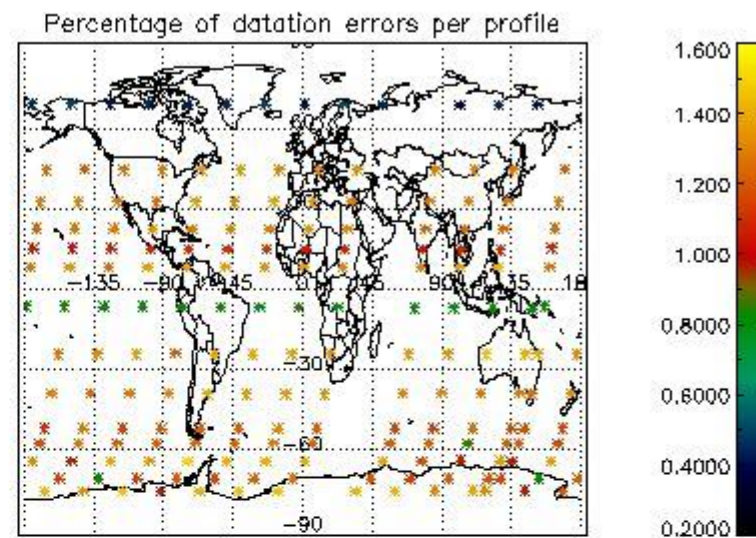
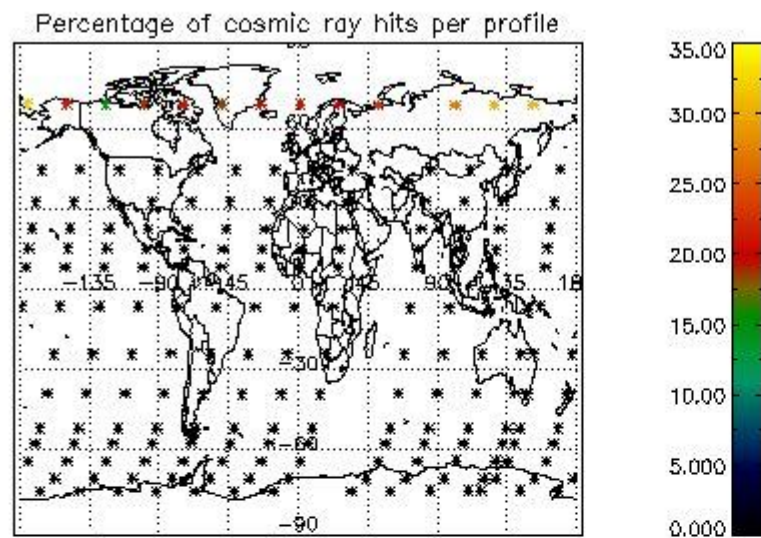


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

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

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

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

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

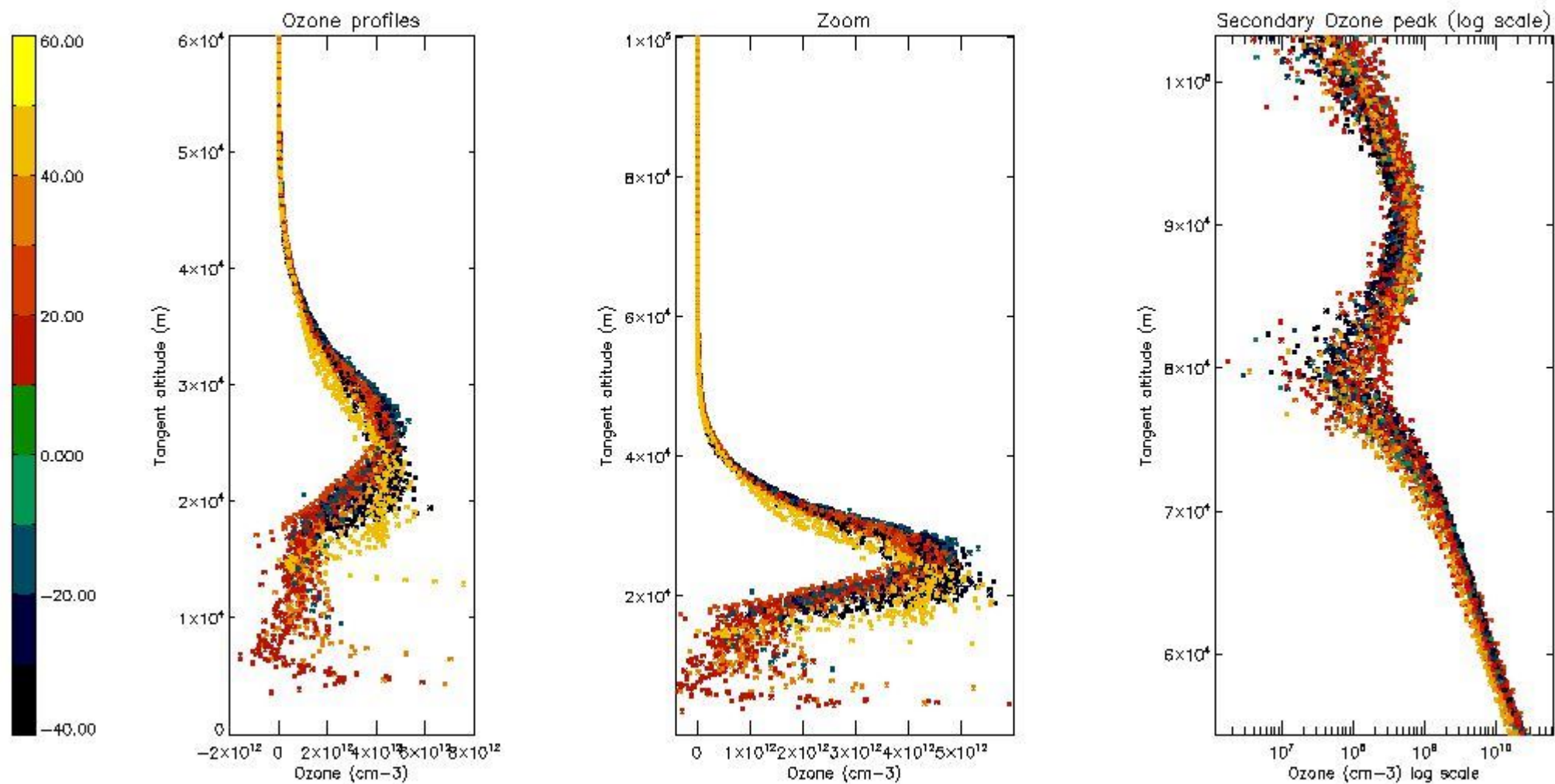
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	27
STD < 20	17

STD < 10	15
STD < 5	10

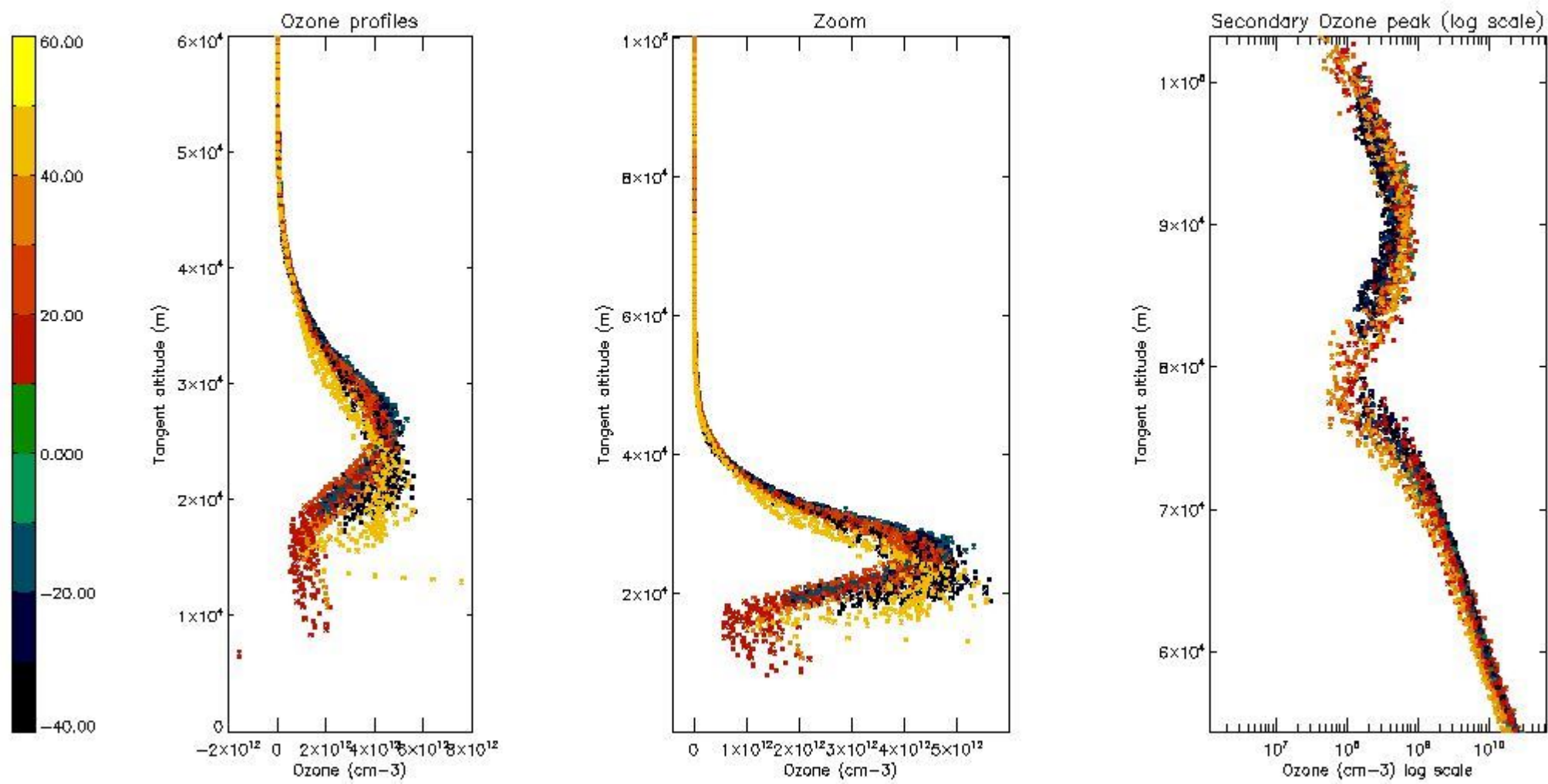
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



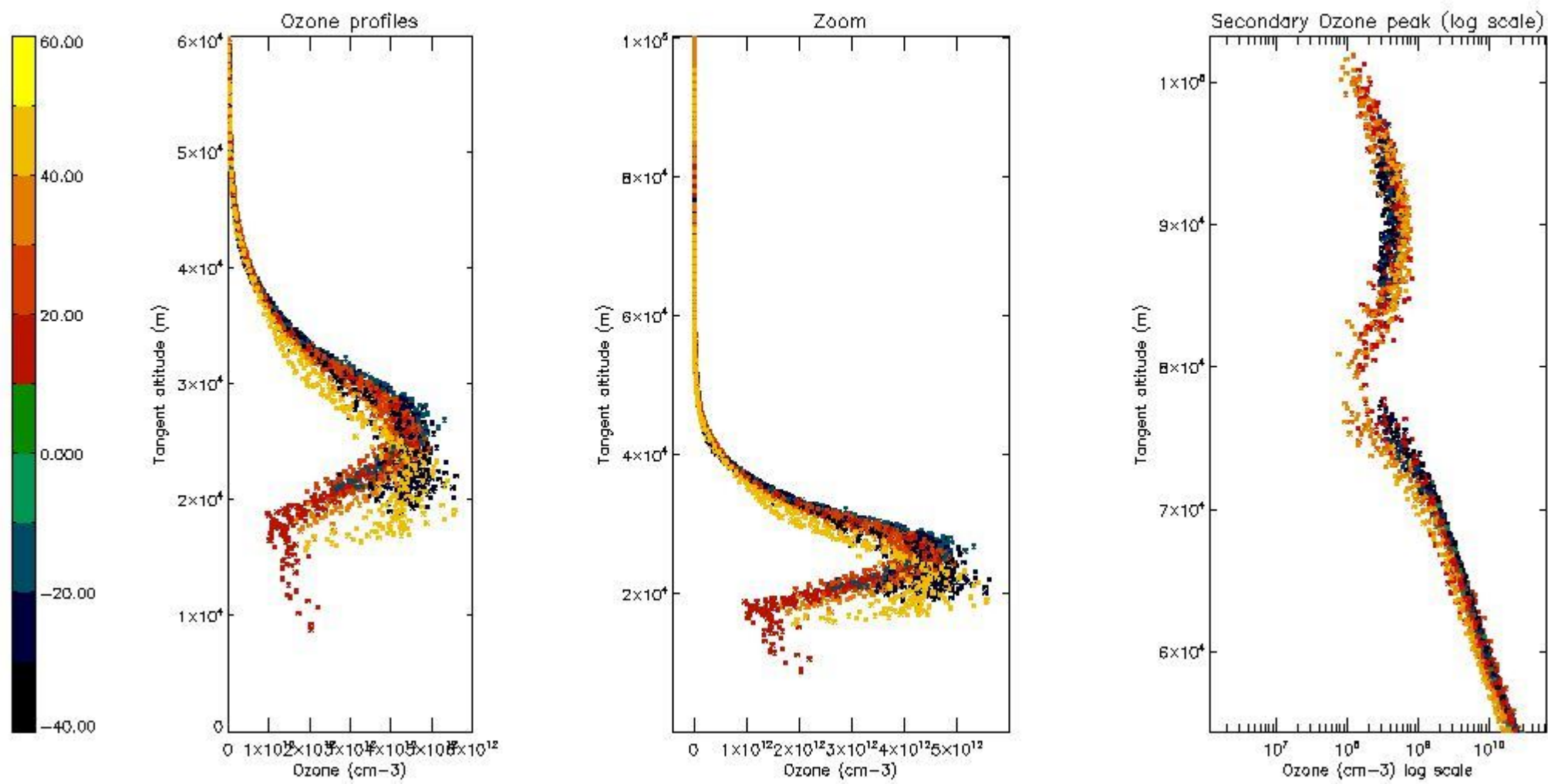
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



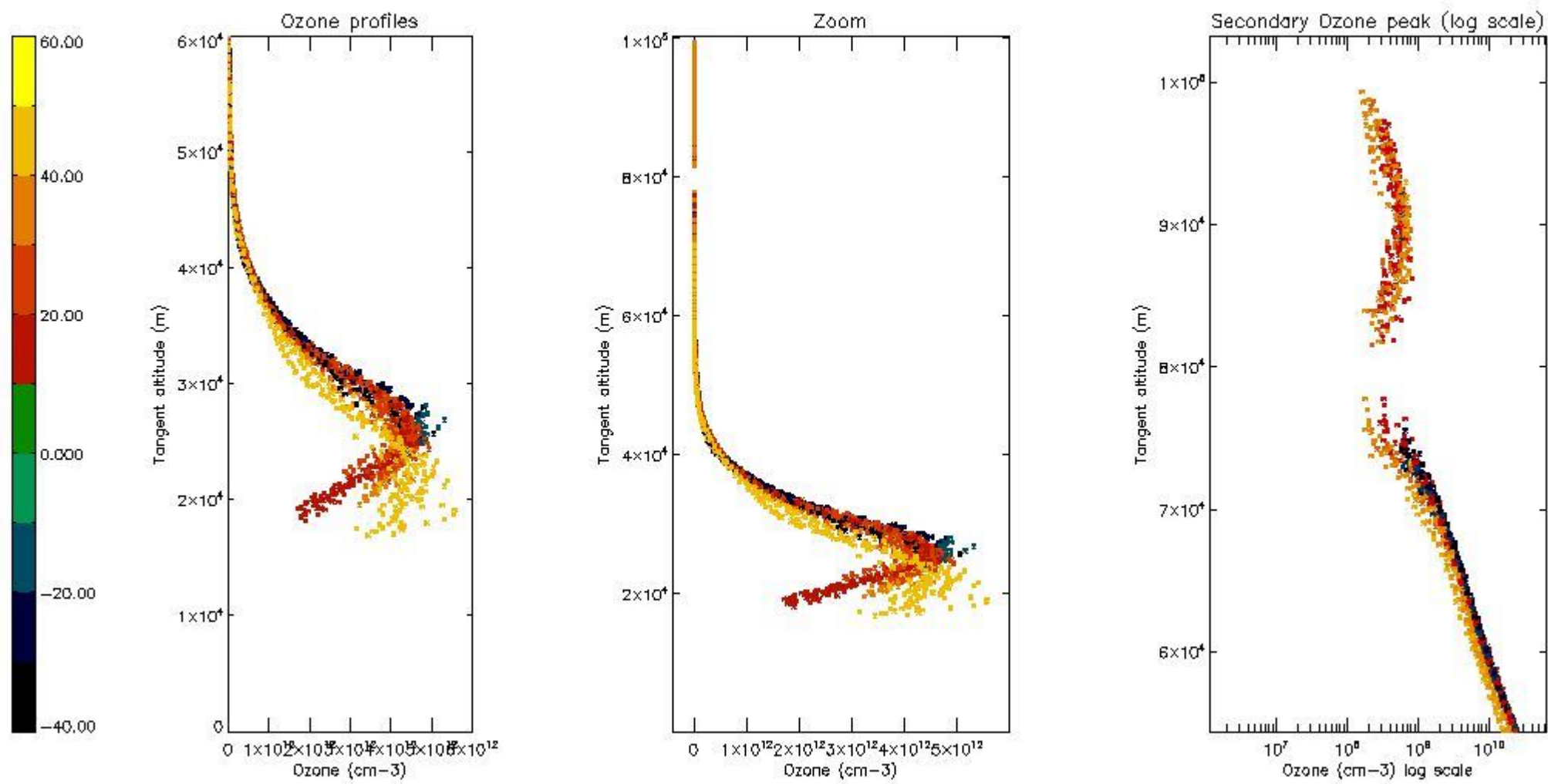
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



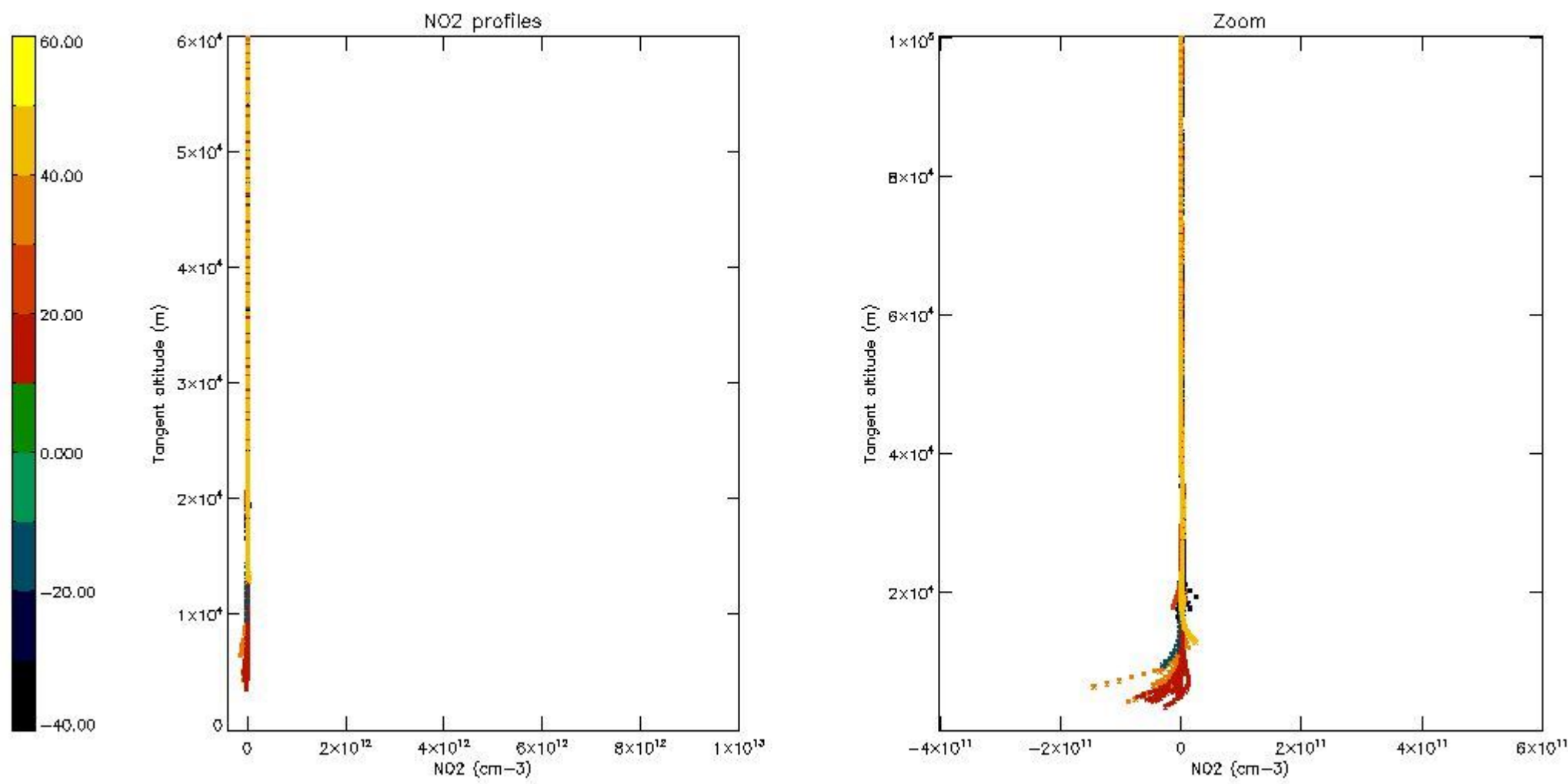
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



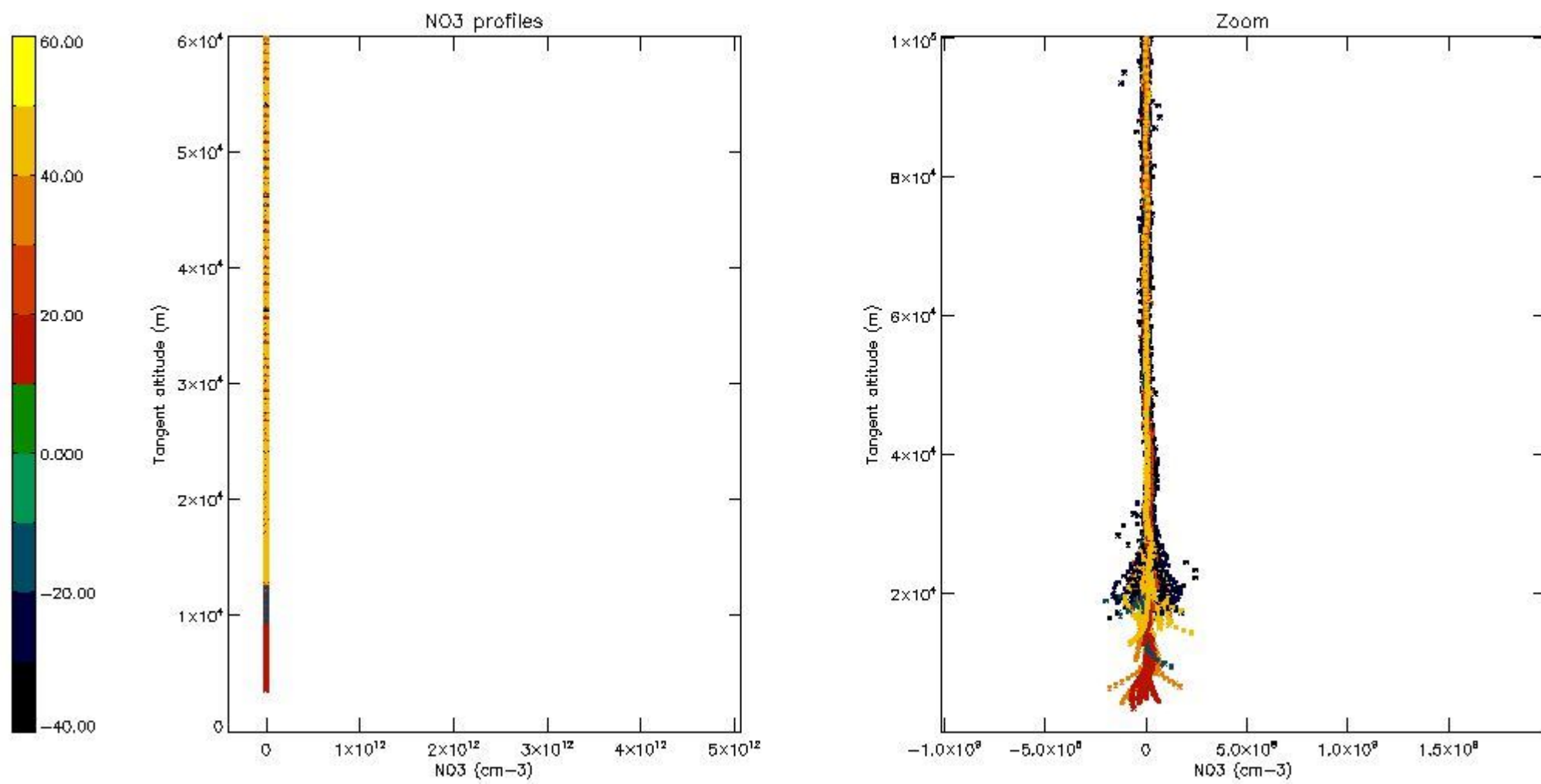
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



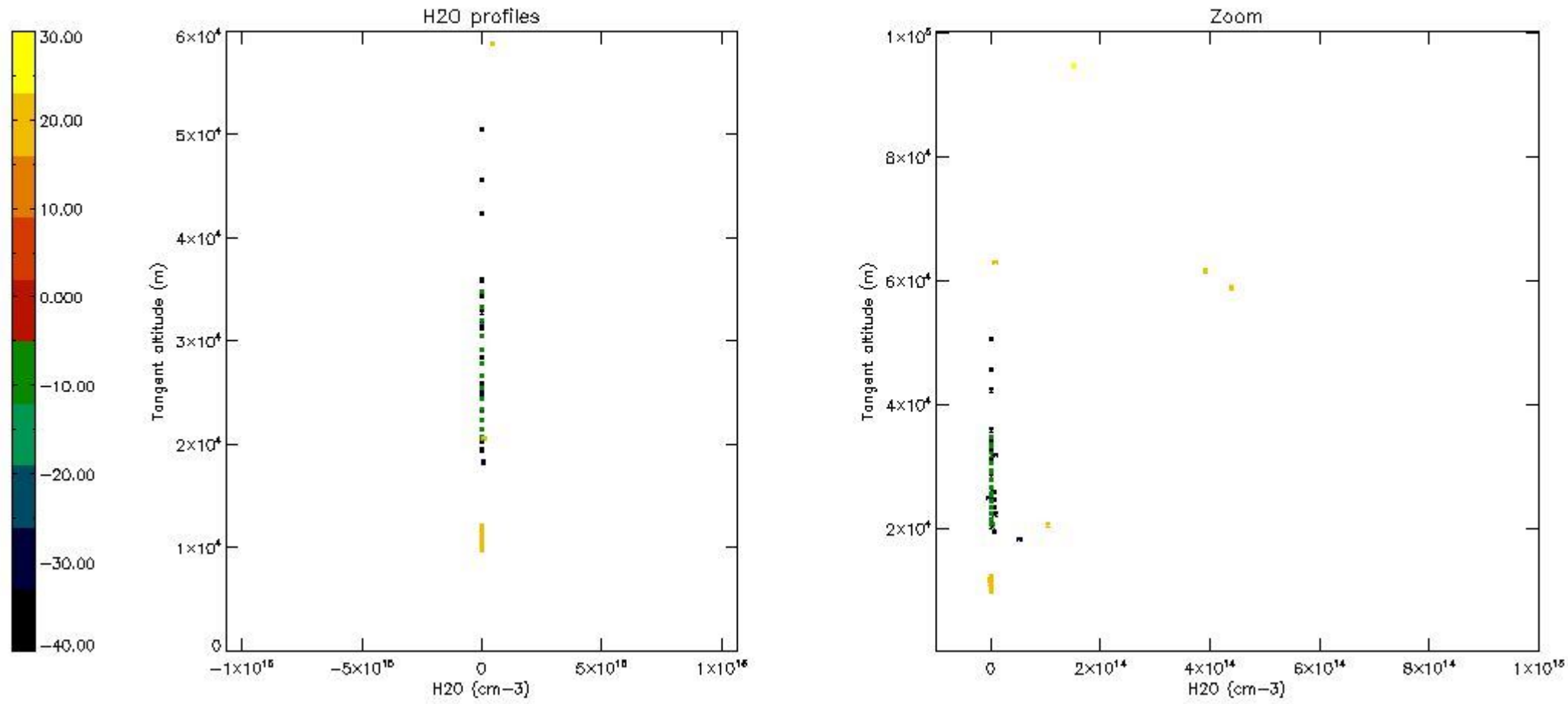
5.7 Plot NO3 profiles for all STD (dark without errors)

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	10-NOV-2003 00:03:43
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	10-NOV-2003 00:03:43
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	10-NOV-2003 00:03:43

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](#)

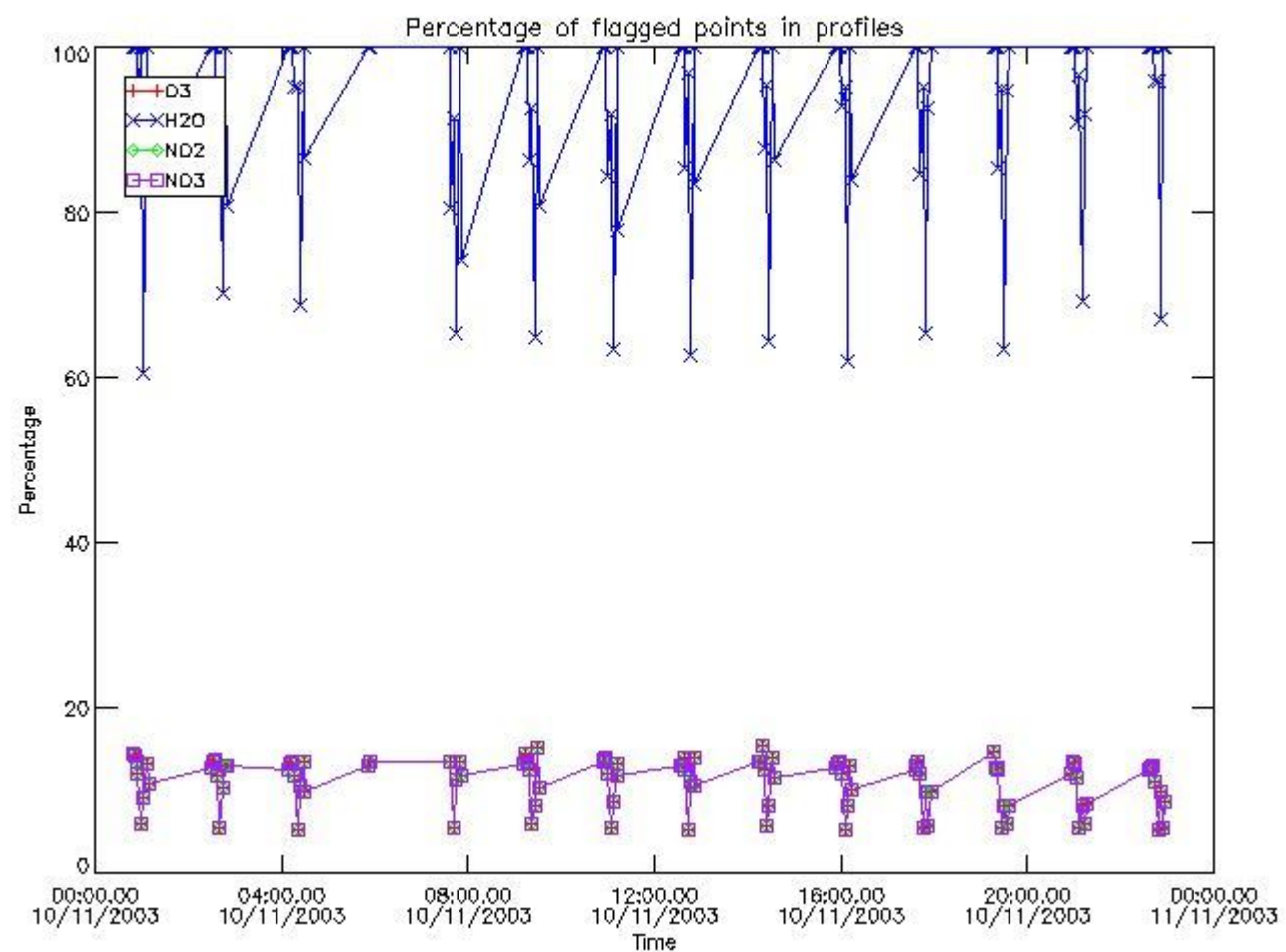
[6. Auxiliary Data Files used for the production reported in section 2](#)

338	GOM_NL__2PRFIN20031110_225658_000000582021_00302_08873_3870.N1	10-NOV-2003 22:56:58	Dark	58.000	108	Alp Col	2.6520	15200.	116	8873	No
339	GOM_NL__2PRFIN20031110_225932_000000412021_00302_08873_3871.N1	10-NOV-2003 22:59:32	Straylight	40.500	157	The1Eri	2.9060	9300.0	81	8873	No
340	GOM_NL__2PRFIN20031110_230429_000002142021_00302_08873_3872.N1	10-NOV-2003 23:04:29	Twilight_stray	214.00	1	9Alp CMa	-1.4400	11000.	428	8873	No
341	GOM_NL__2PRFIN20031110_231021_000001112021_00302_08873_3873.N1	10-NOV-2003 23:10:21	Twilight_stray	110.50	7	19Bet Ori	0.10000	14000.	221	8873	No
342	GOM_NL__2PRFIN20031110_231730_000000422021_00302_08873_3874.N1	10-NOV-2003 23:17:30	Bright	41.500	105	6Bet Ari	2.6450	8900.0	83	8873	No
343	GOM_NL__2PRFIN20031110_232057_000000392021_00302_08873_3875.N1	10-NOV-2003 23:20:57	Bright	39.000	58	21Alp And	2.0730	11000.	78	8873	No
344	GOM_NL__2PRFIN20031110_232344_000000402021_00302_08873_3876.N1	10-NOV-2003 23:23:44	Bright	40.000	73	57Gam1And	2.2600	13100.	80	8873	No
345	GOM_NL__2PRFIN20031110_232547_000000472021_00302_08873_3877.N1	10-NOV-2003 23:25:47	Bright	46.500	149	45Eps Per	2.8880	30000.	93	8873	No
346	GOM_NL__2PRFIN20031110_232747_000000402021_00302_08873_3878.N1	10-NOV-2003 23:27:47	Bright	39.500	68	18Alp Cas	2.2250	4500.0	79	8873	No
347	GOM_NL__2PRFIN20031110_233149_000000612021_00302_08873_3879.N1	10-NOV-2003 23:31:49	Bright	60.500	6	13Alp Aur	0.080000	3400.0	121	8873	No
348	GOM_NL__2PRFIN20031110_233652_000000362021_00302_08873_3880.N1	10-NOV-2003 23:36:52	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	8873	No
349	GOM_NL__2PRFIN20031110_234104_000000402021_00302_08873_3881.N1	10-NOV-2003 23:41:04	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	8873	No
350	GOM_NL__2PRFIN20031110_234445_000000432021_00302_08873_3882.N1	10-NOV-2003 23:44:45	Bright	42.500	36	50Alp UMa	1.8000	6300.0	85	8873	No
351	GOM_NL__2PRFIN20031110_234624_000000412021_00302_08873_3883.N1	10-NOV-2003 23:46:24	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	8873	No
352	GOM_NL__2PRFIN20031110_234819_000000522021_00302_08873_3884.N1	10-NOV-2003 23:48:19	Bright	52.000	39	85Eta UMa	1.8540	24000.	104	8873	No
353	GOM_NL__2PRFIN20031110_235018_000000442021_00302_08873_3885.N1	10-NOV-2003 23:50:18	Bright	43.500	174	52Psi UMa	3.0040	4400.0	87	8873	No
354	GOM_NL__2PRFIN20031110_235148_000000392021_00302_08873_3886.N1	10-NOV-2003 23:51:48	Bright	38.500	152	12Alp2CVn	2.8900	11000.	77	8873	No
355	GOM_NL__2PRFIN20031110_235933_000000762021_00302_08873_3887.N1	10-NOV-2003 23:59:33	Bright	76.000	166	17Eps Leo	2.9800	6000.0	152	8873	No

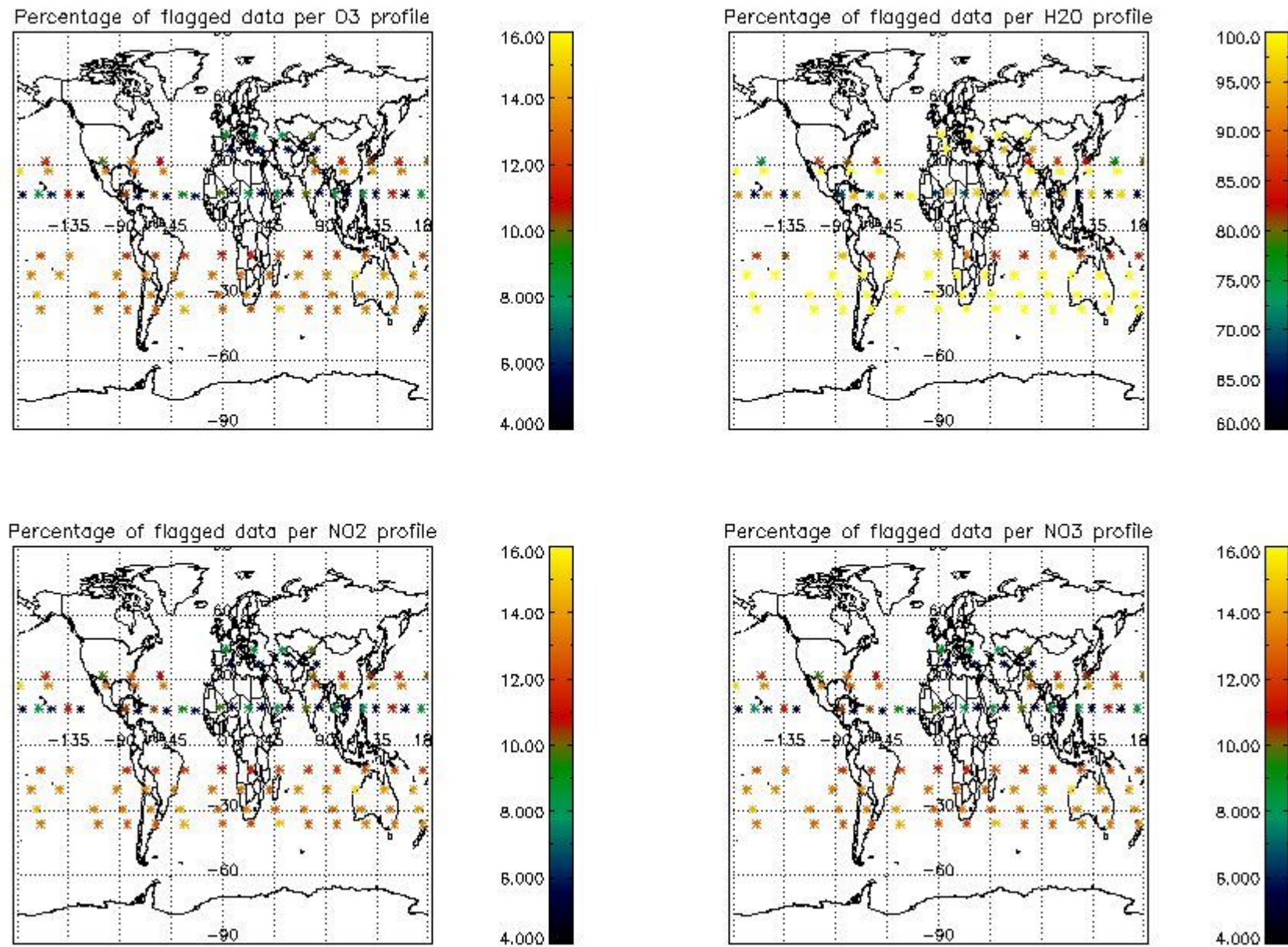
3. Quality information per product

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)

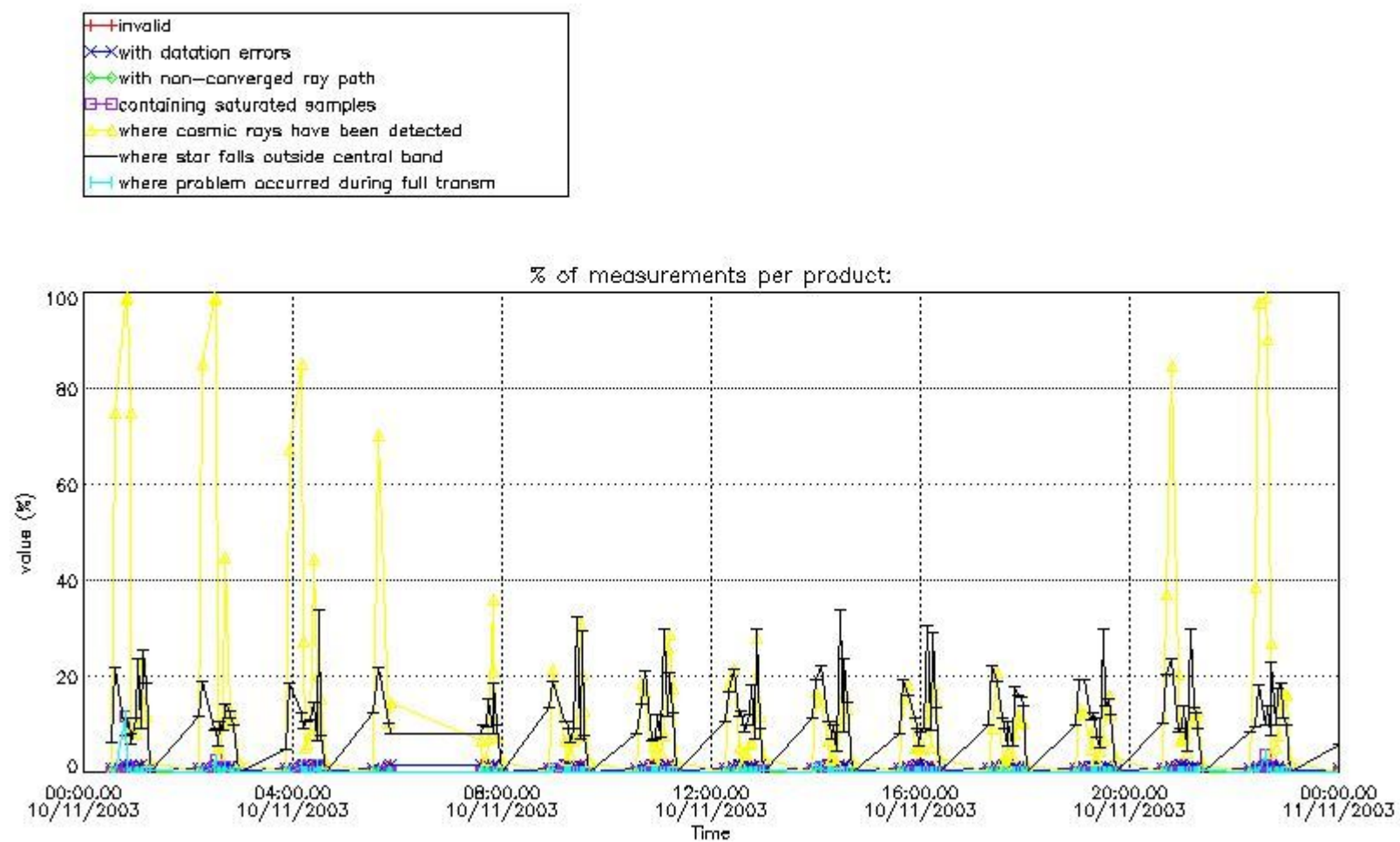


4. Level 1 quality information per product

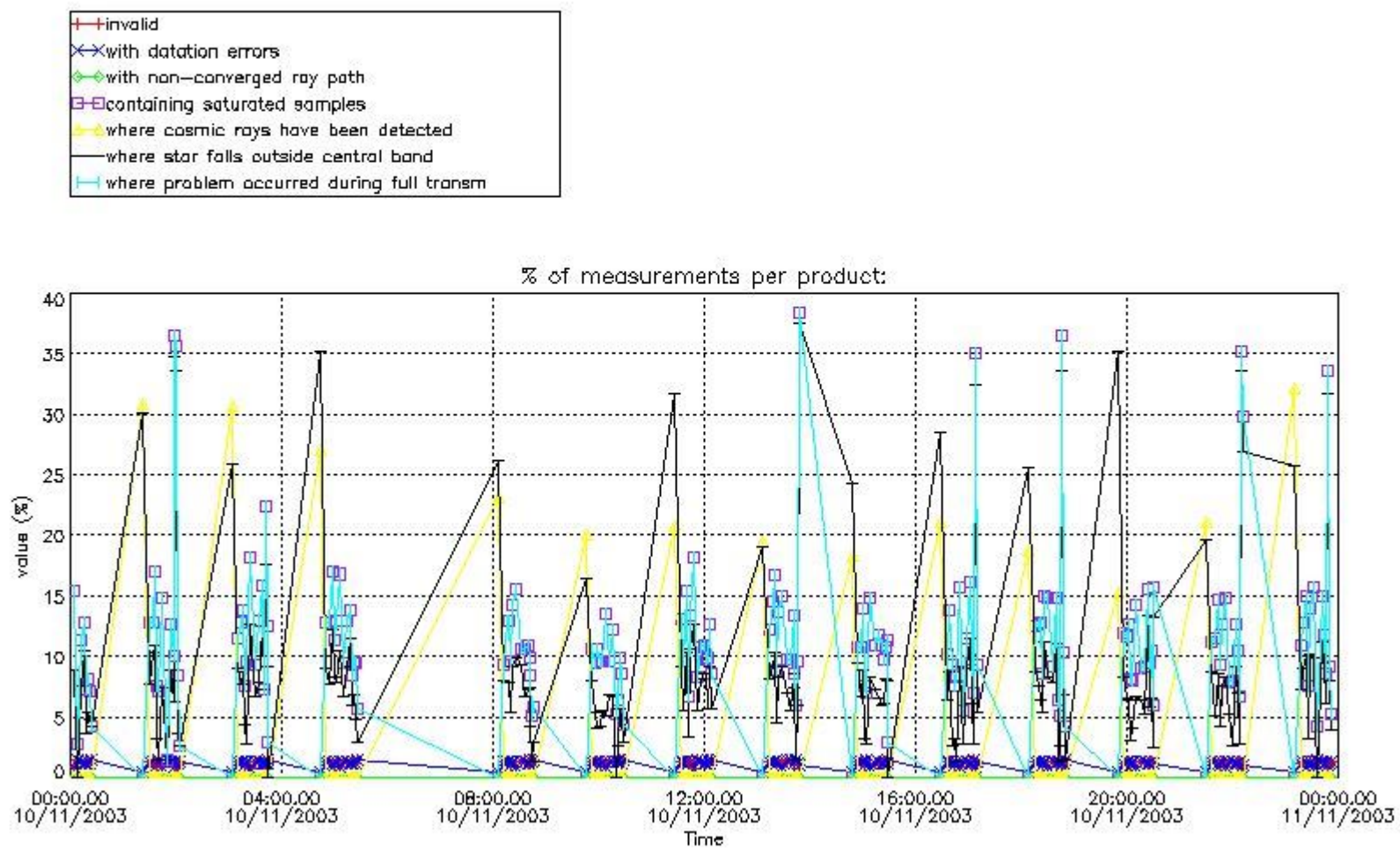
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

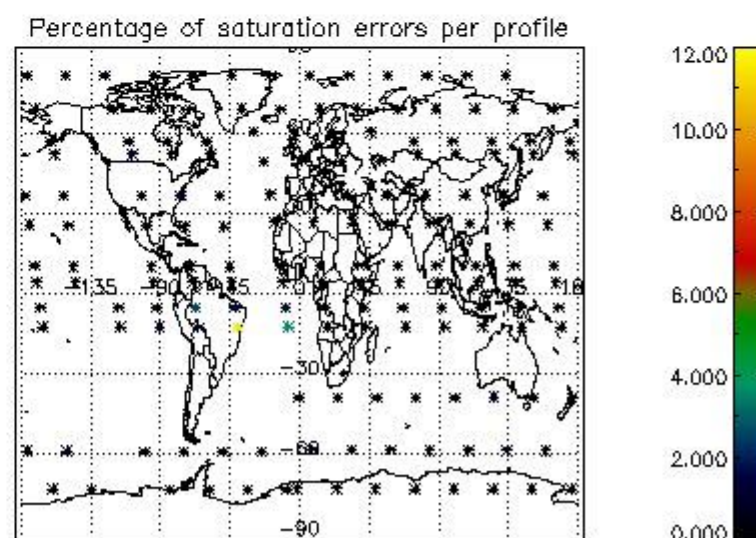
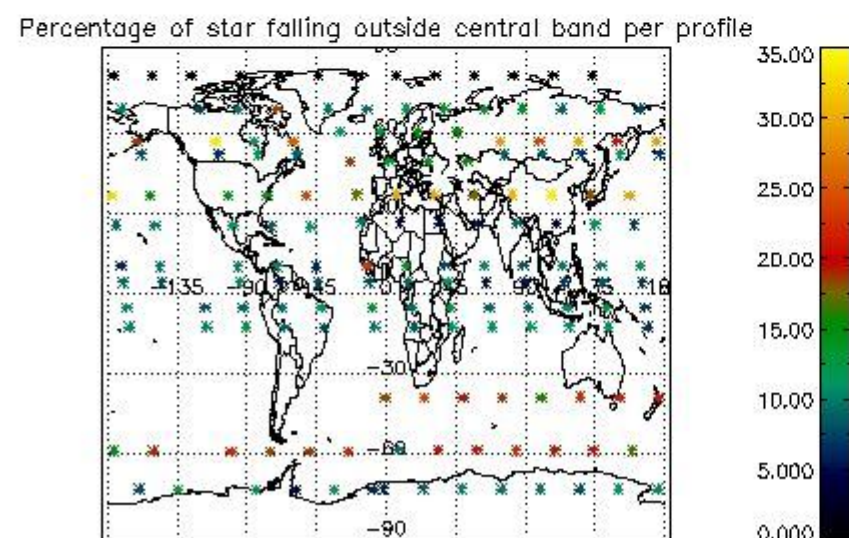
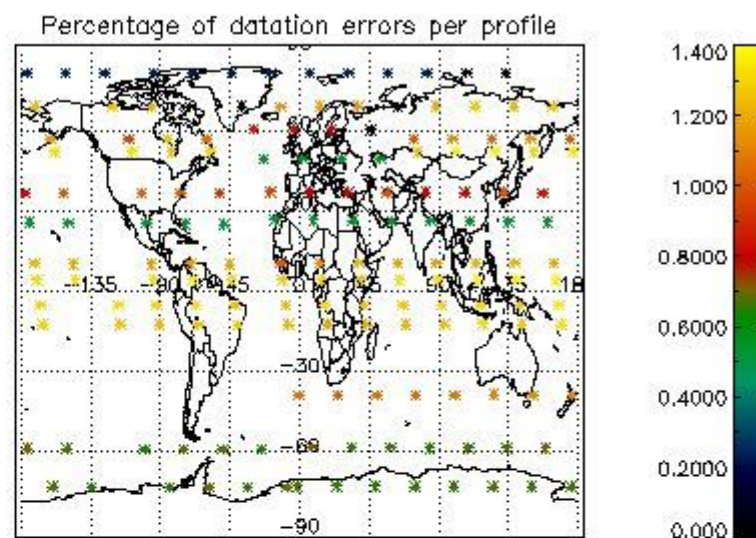
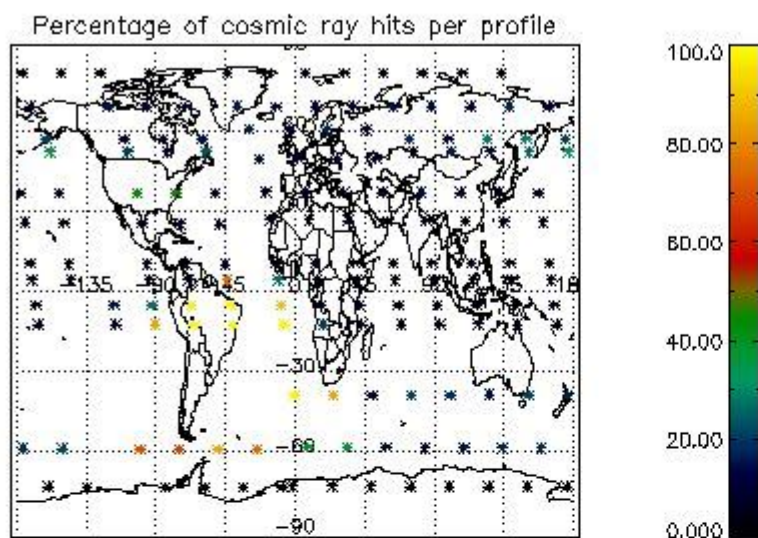


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

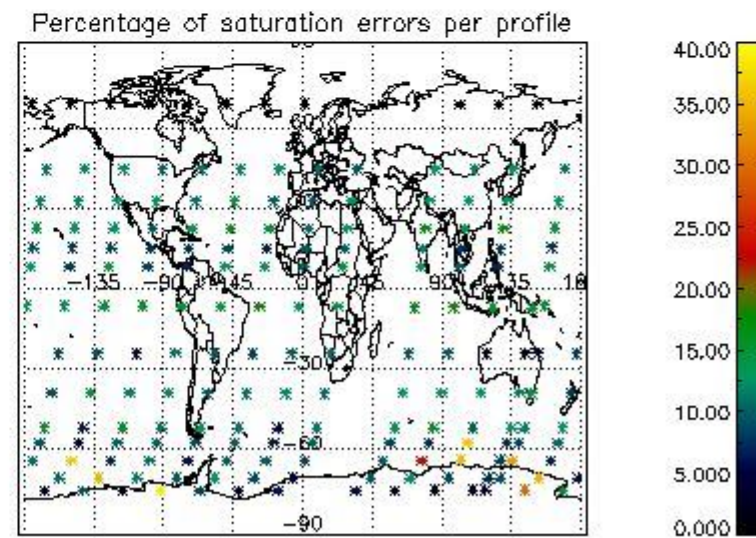
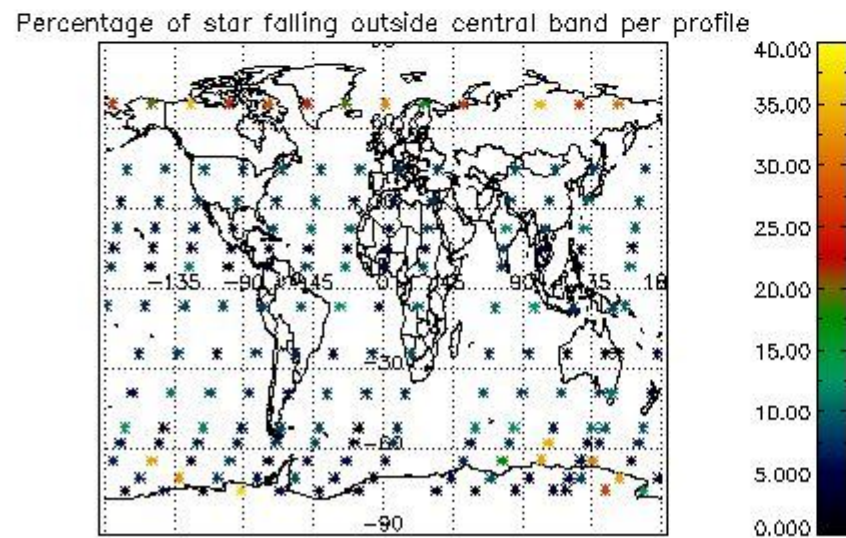
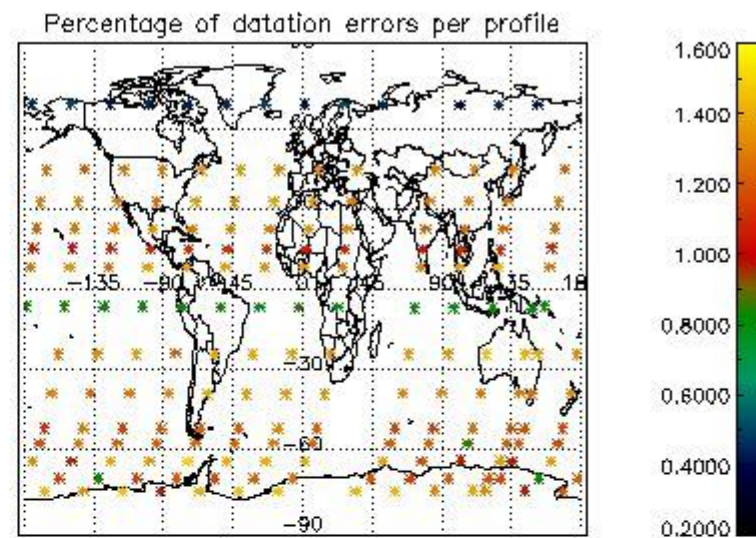
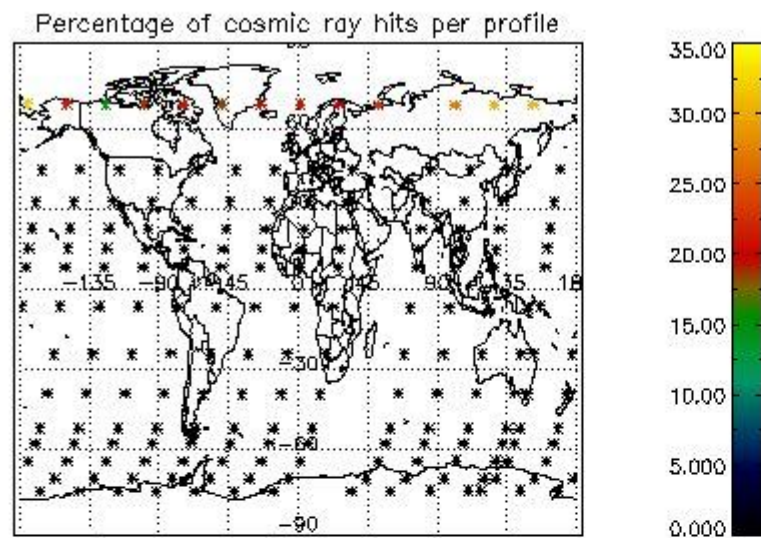


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

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

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

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

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

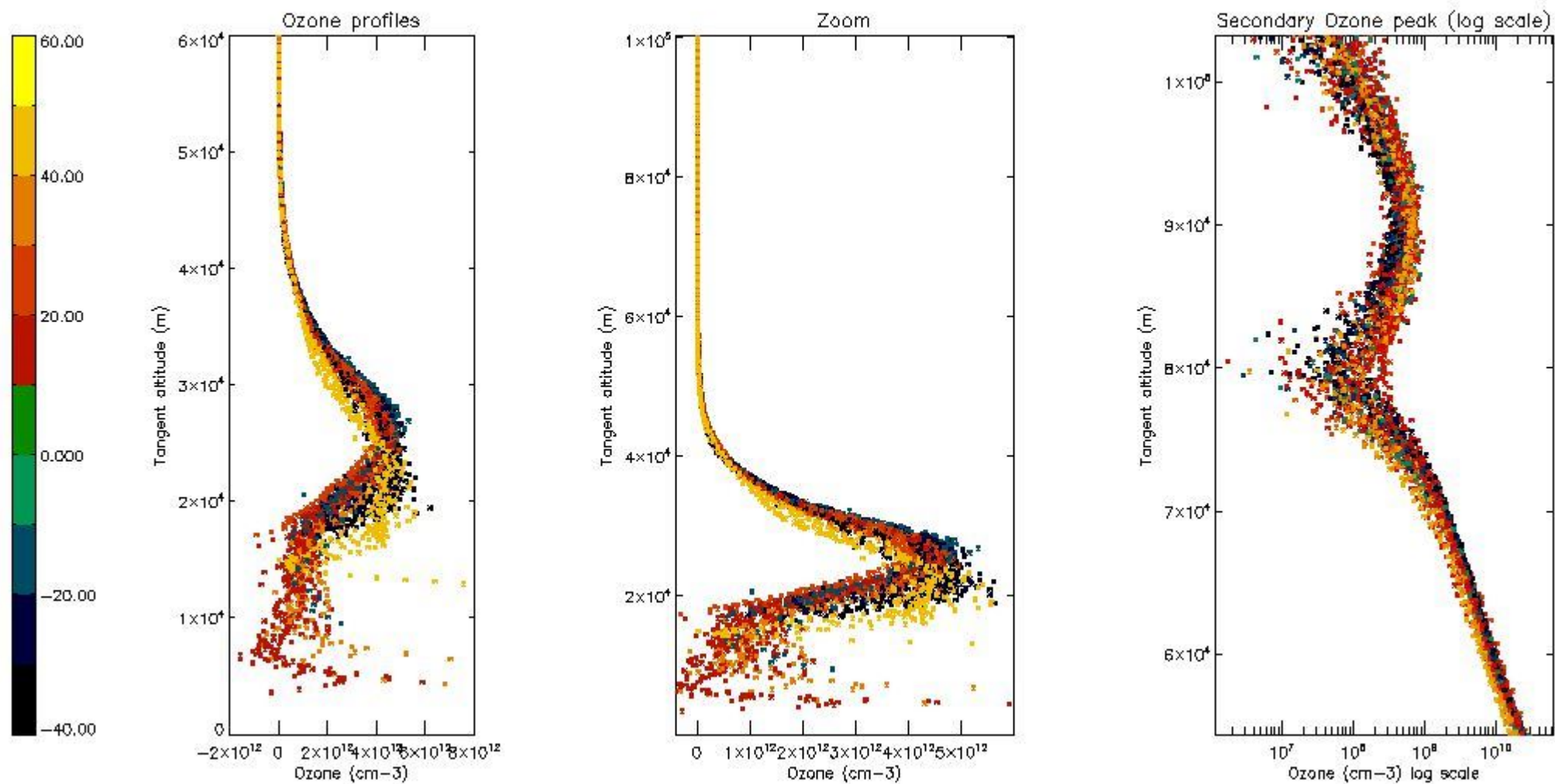
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	27
STD < 20	17

STD < 10	15
STD < 5	10

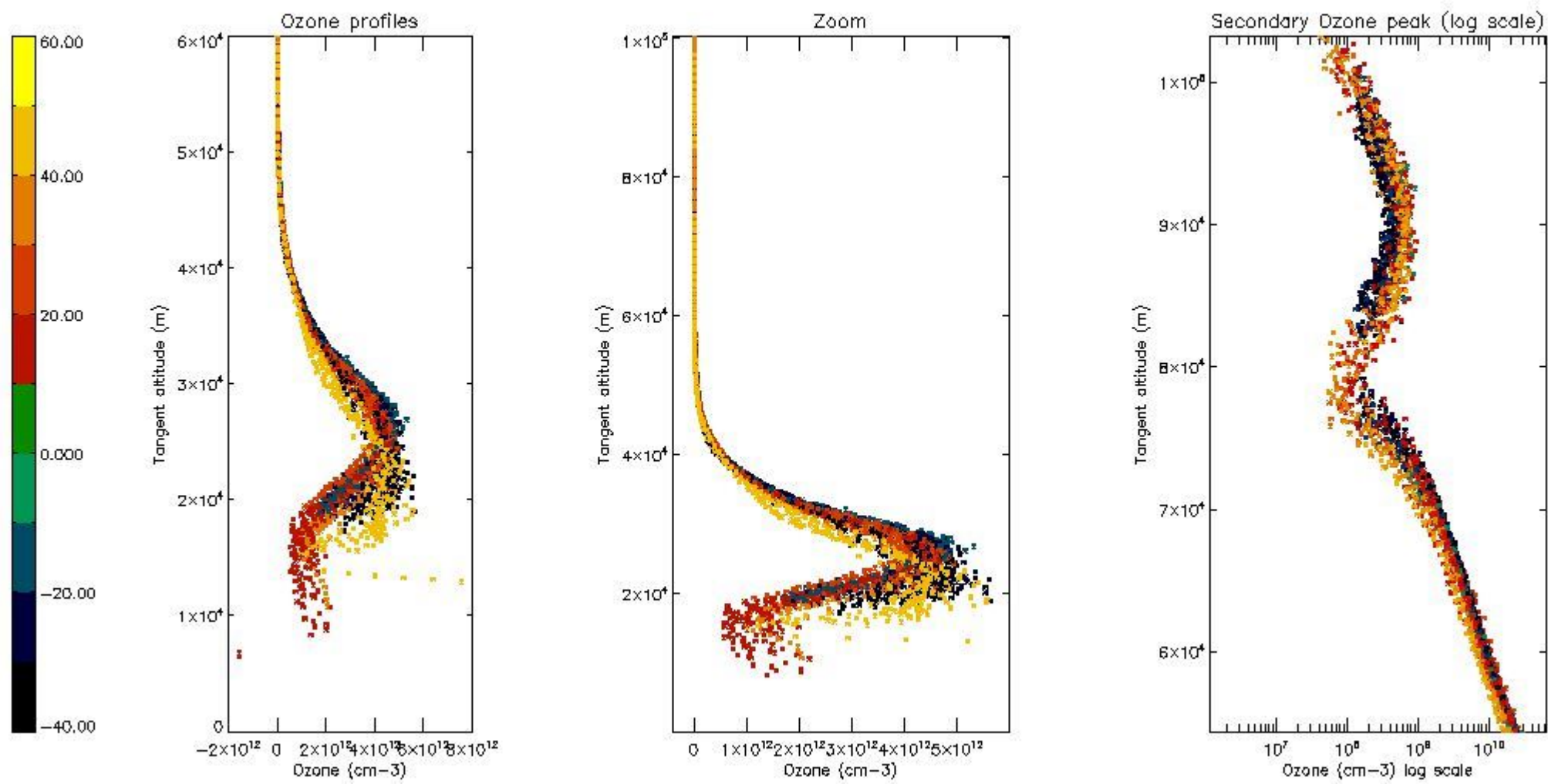
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



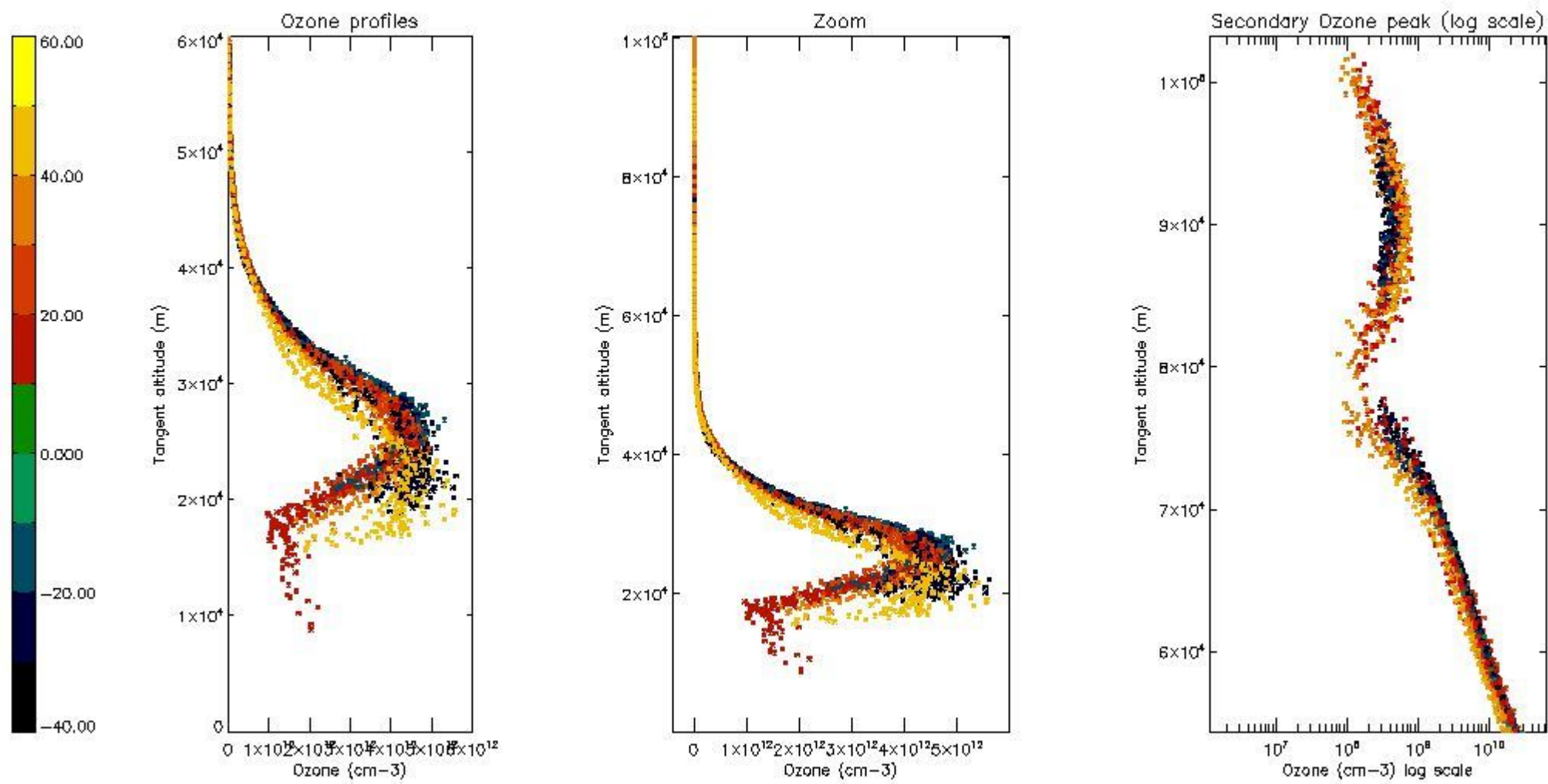
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



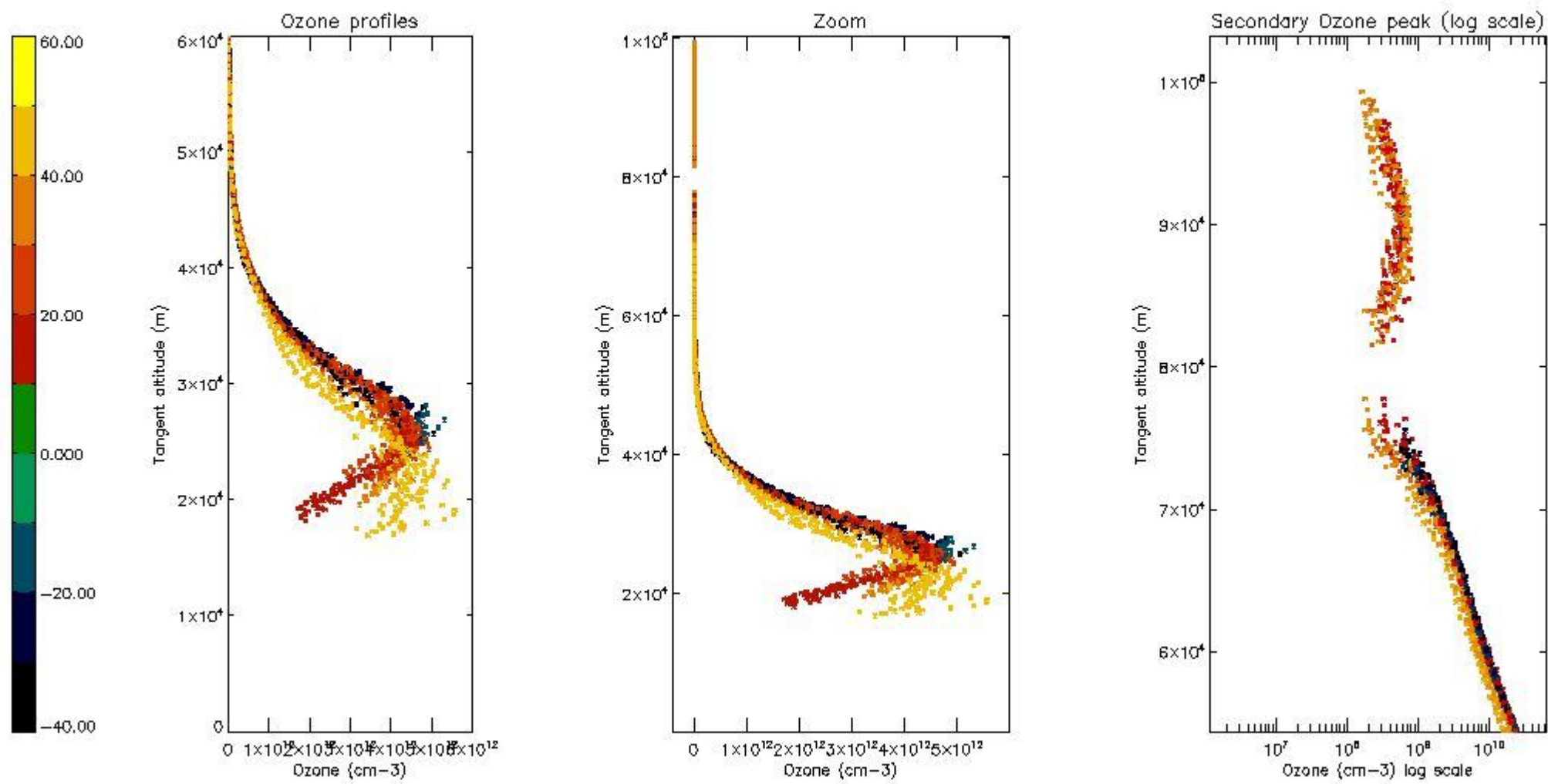
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



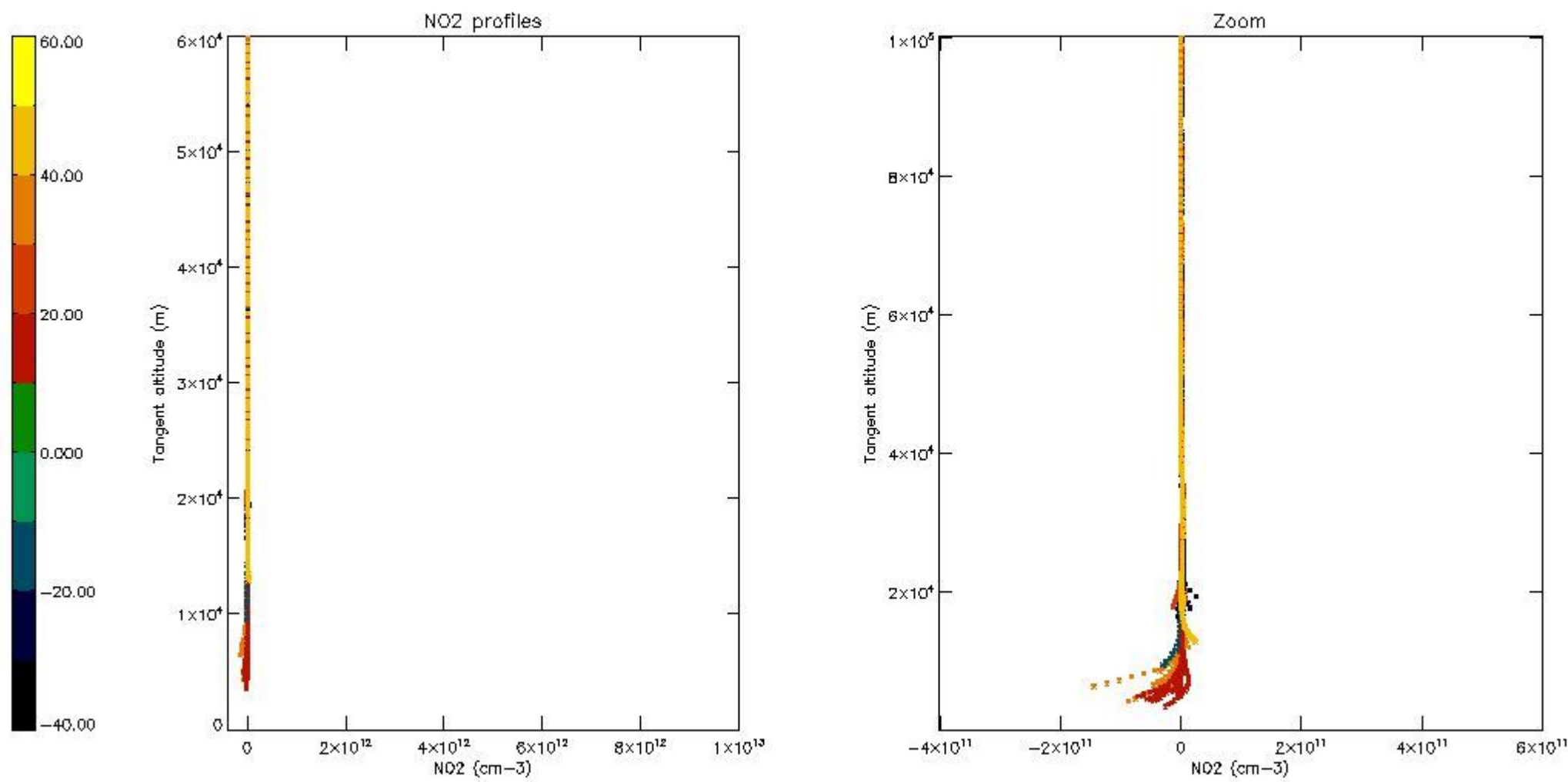
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



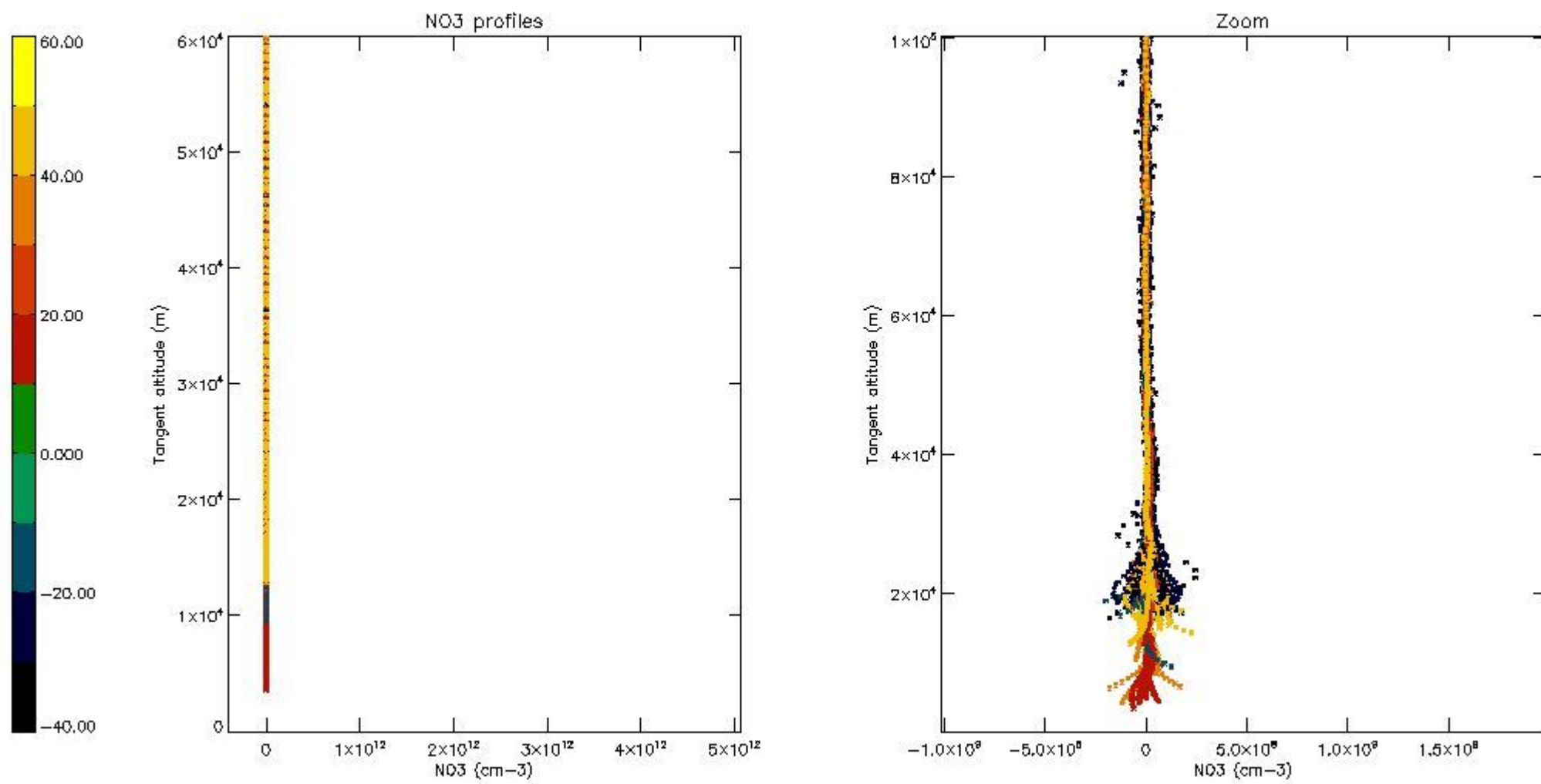
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



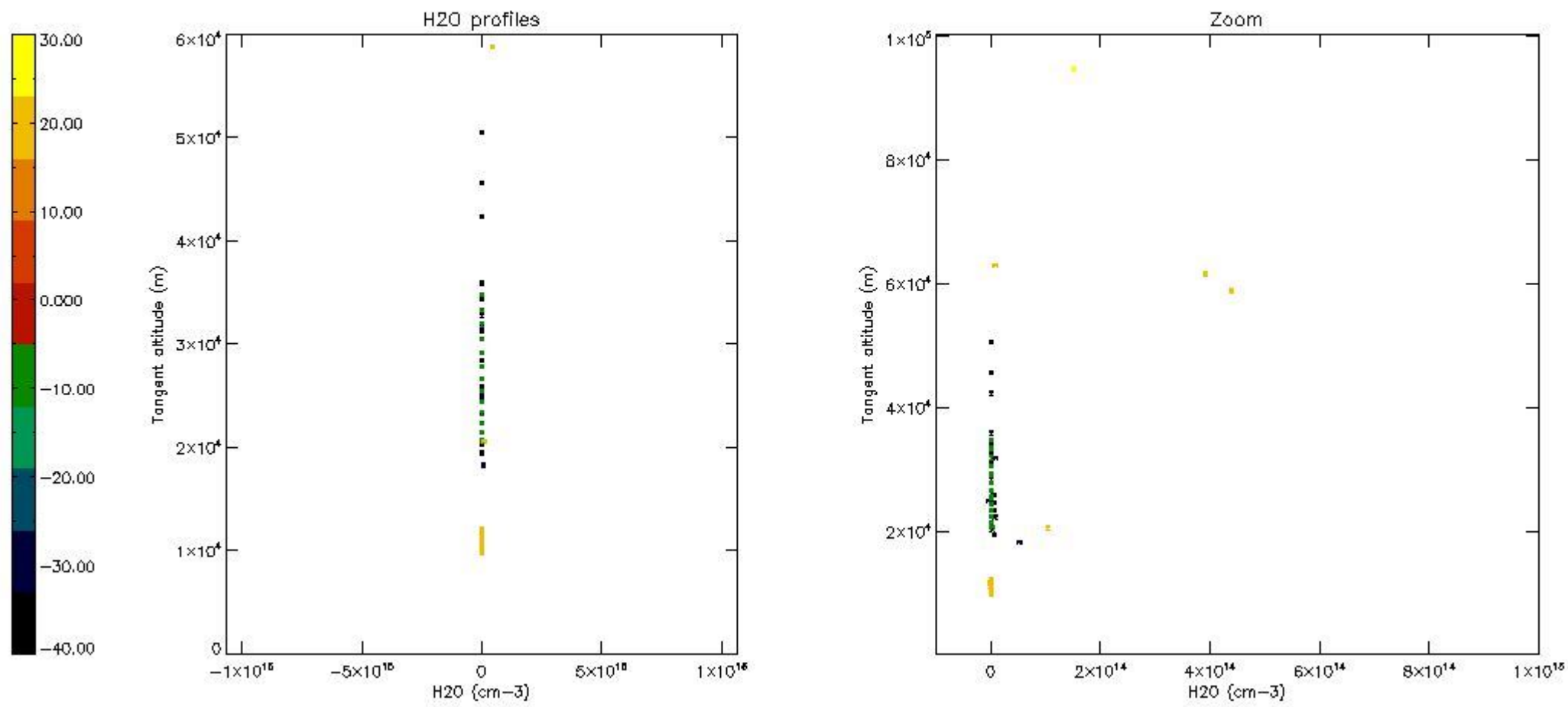
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

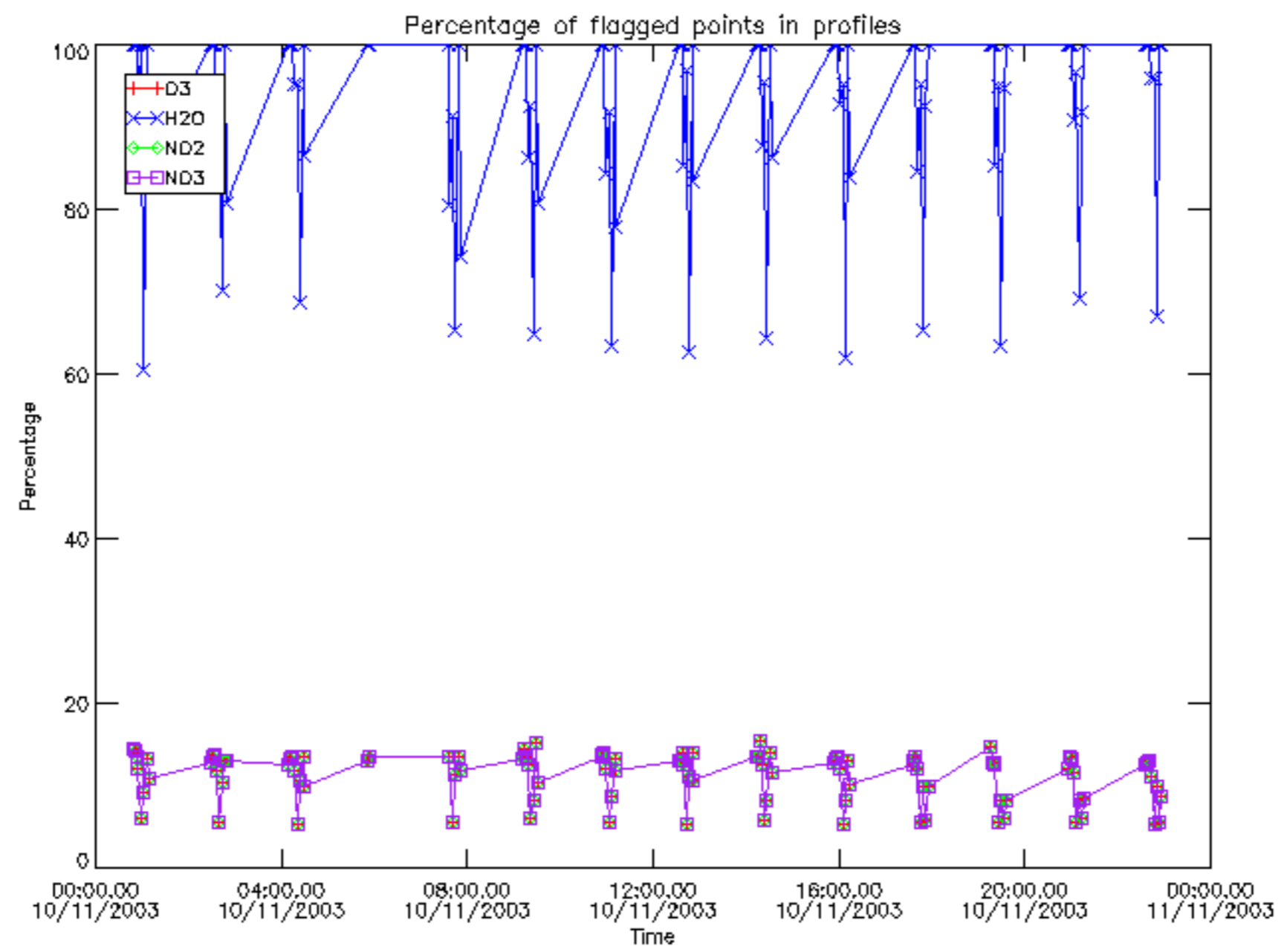
The colorbar represents the latitude.



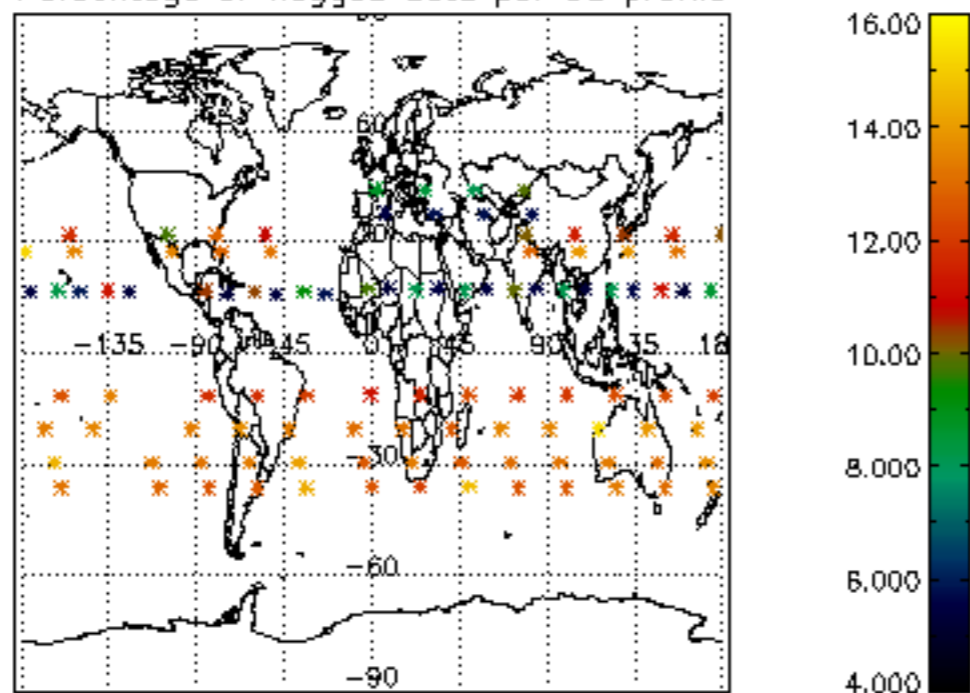
6. Auxiliary Data Files used for the production reported in section 2

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.

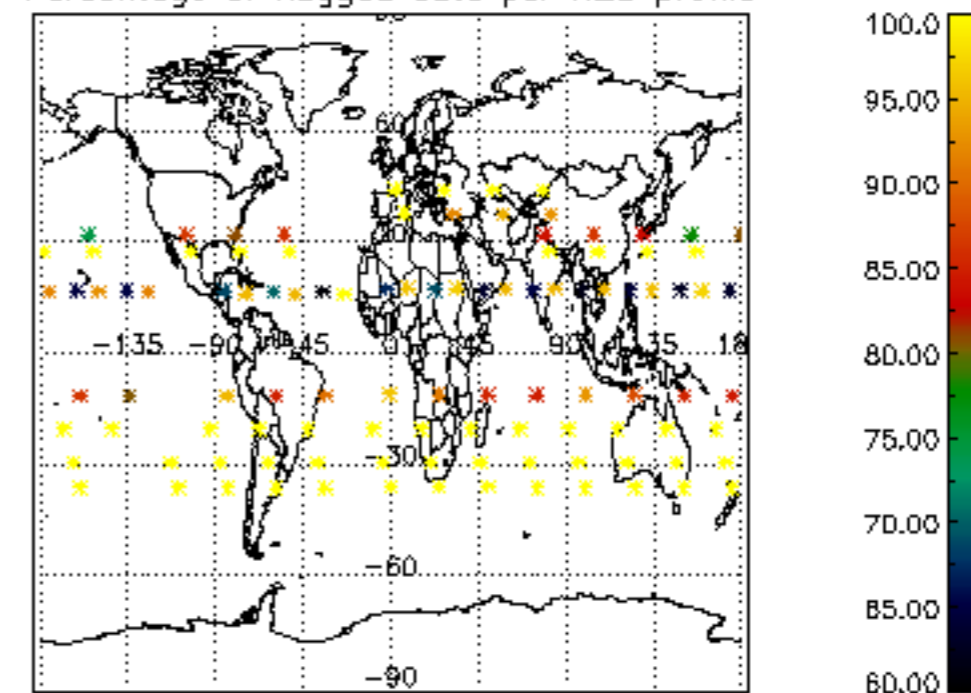
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	10-NOV-2003 00:03:43
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	10-NOV-2003 00:03:43
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	10-NOV-2003 00:03:43



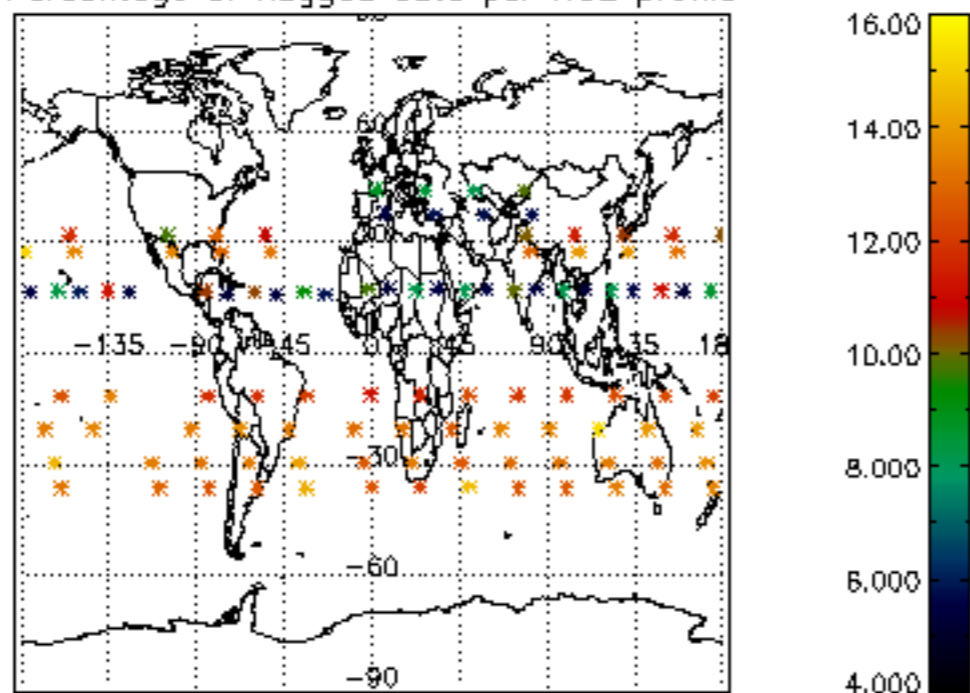
Percentage of flagged data per D3 profile



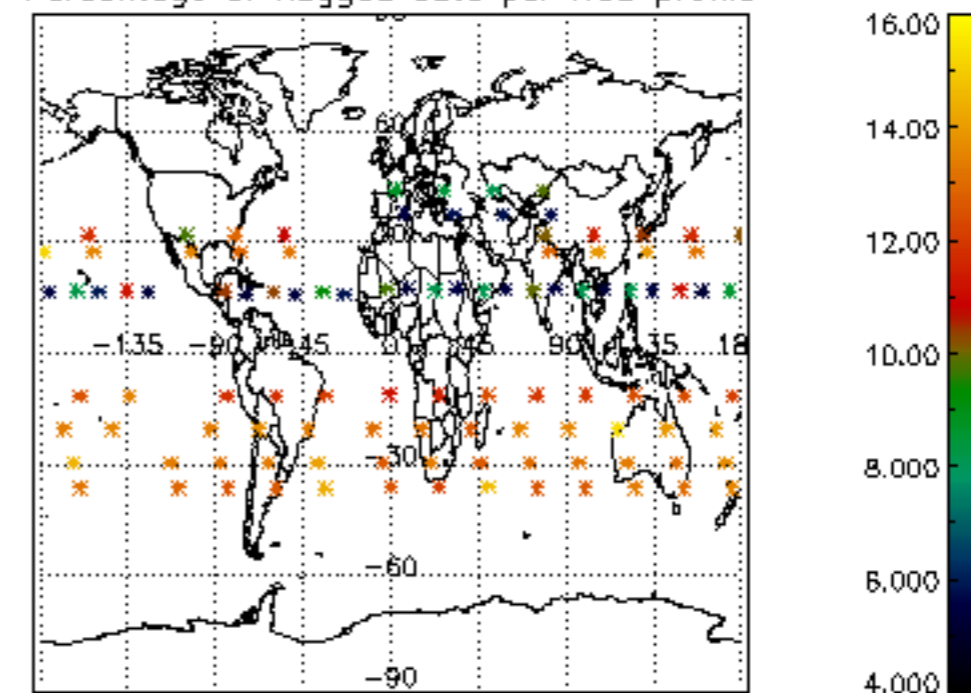
Percentage of flagged data per H2O profile

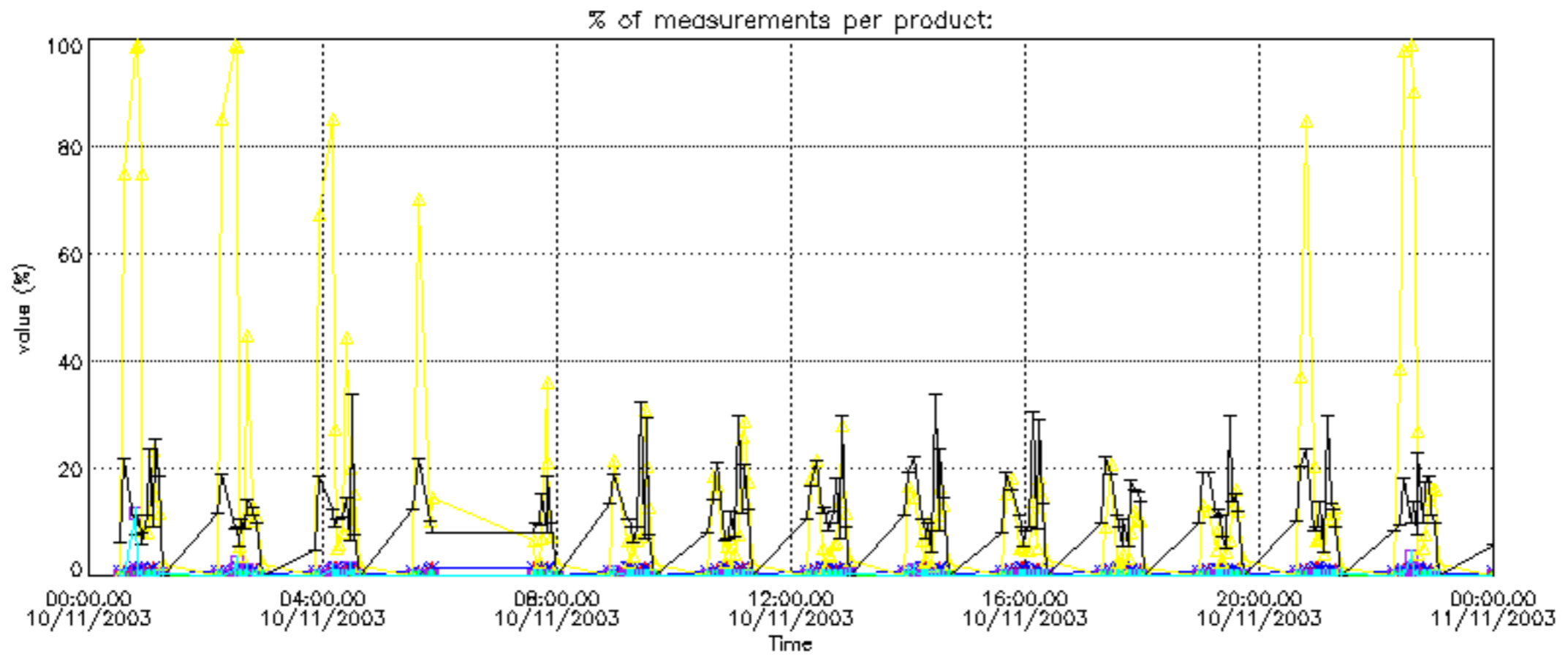


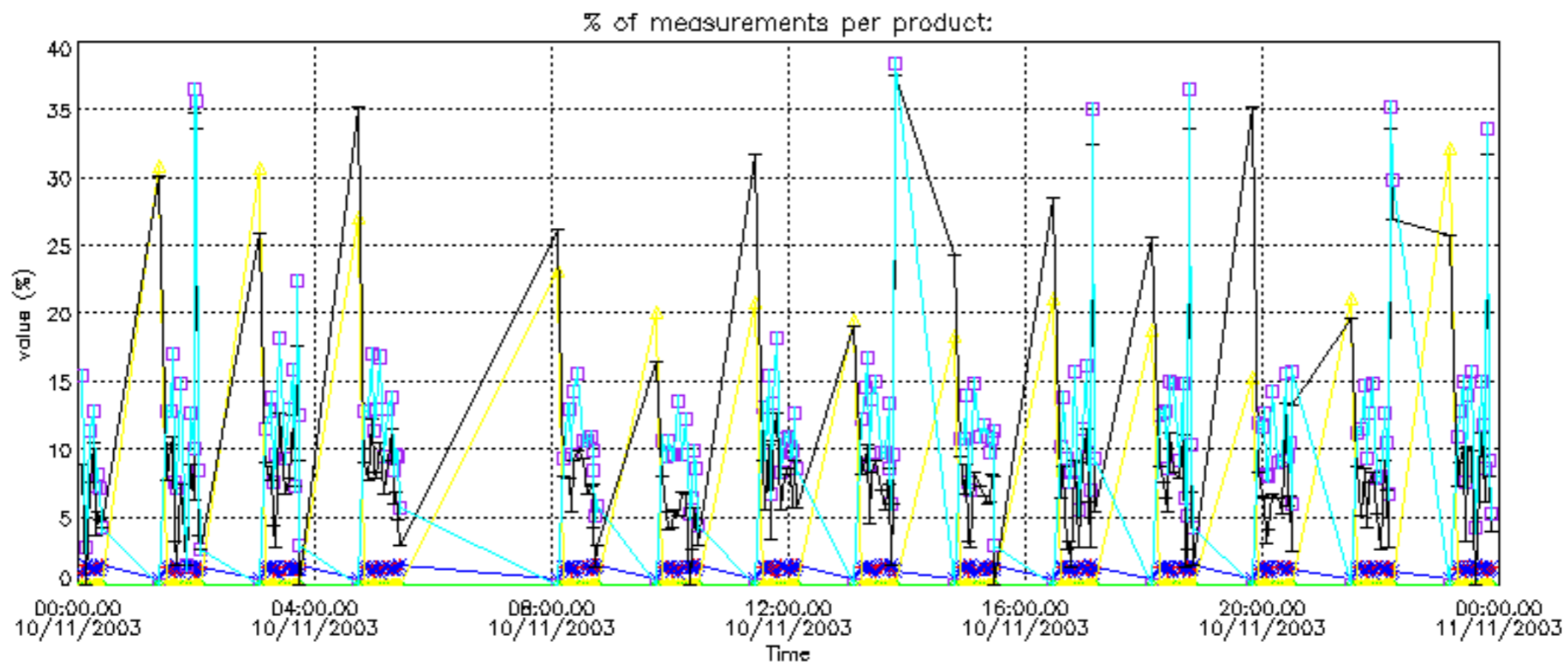
Percentage of flagged data per NO2 profile



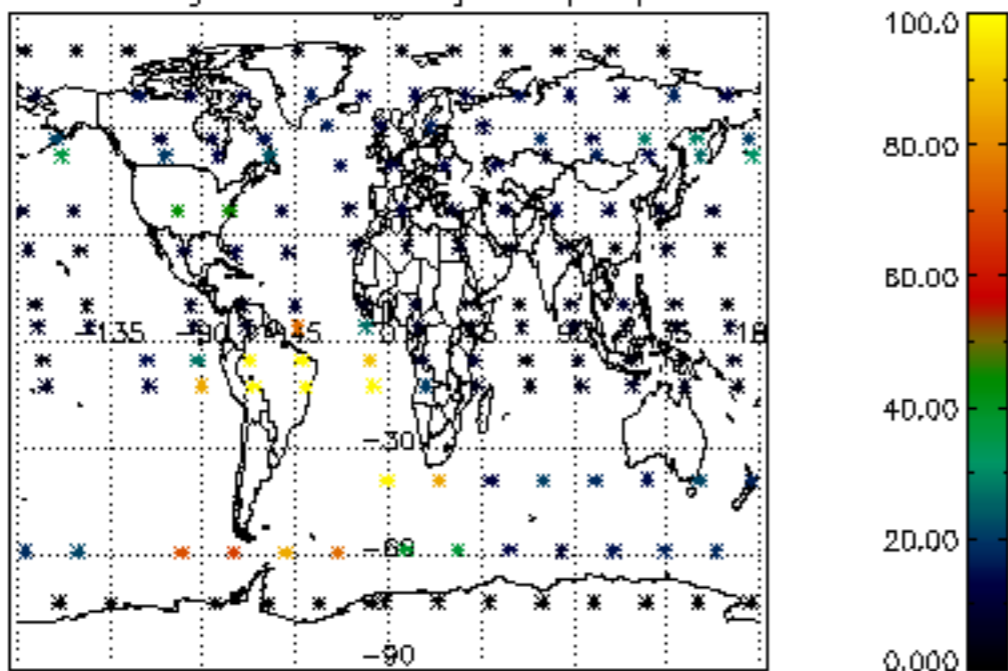
Percentage of flagged data per NO3 profile



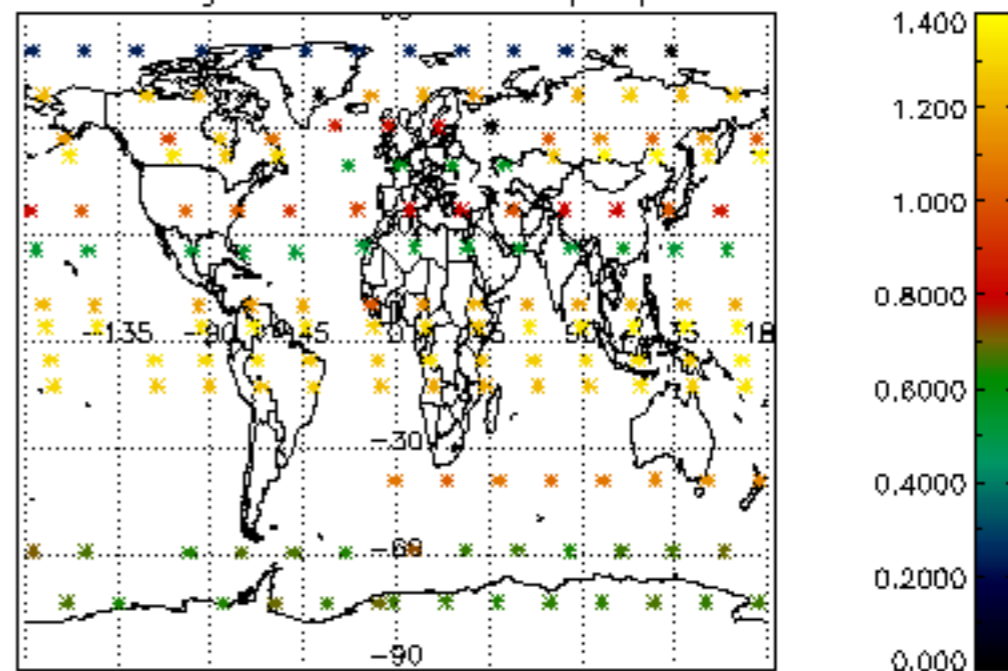




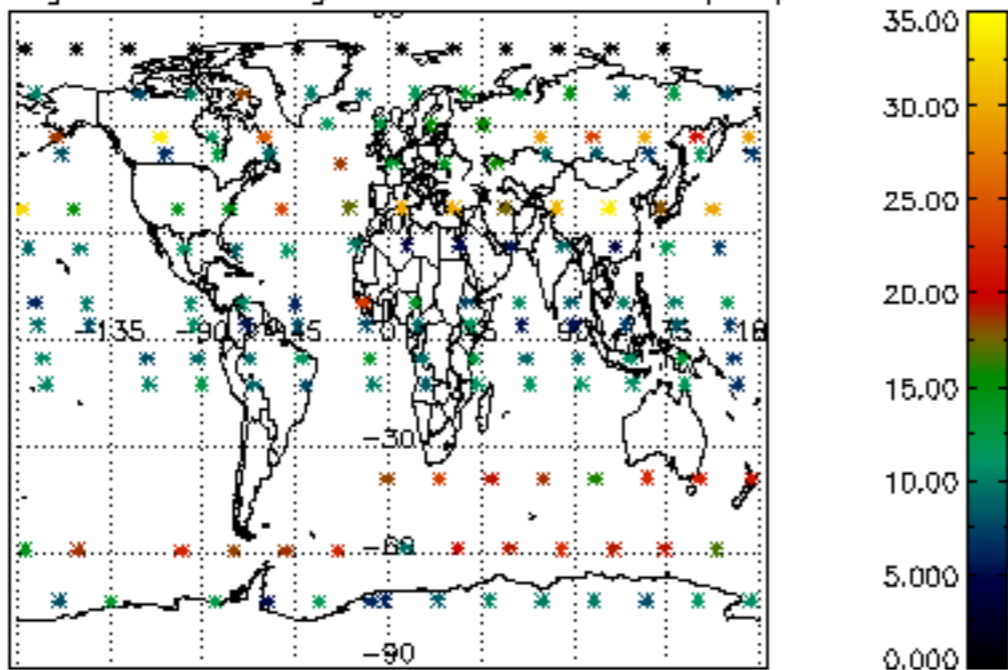
Percentage of cosmic ray hits per profile



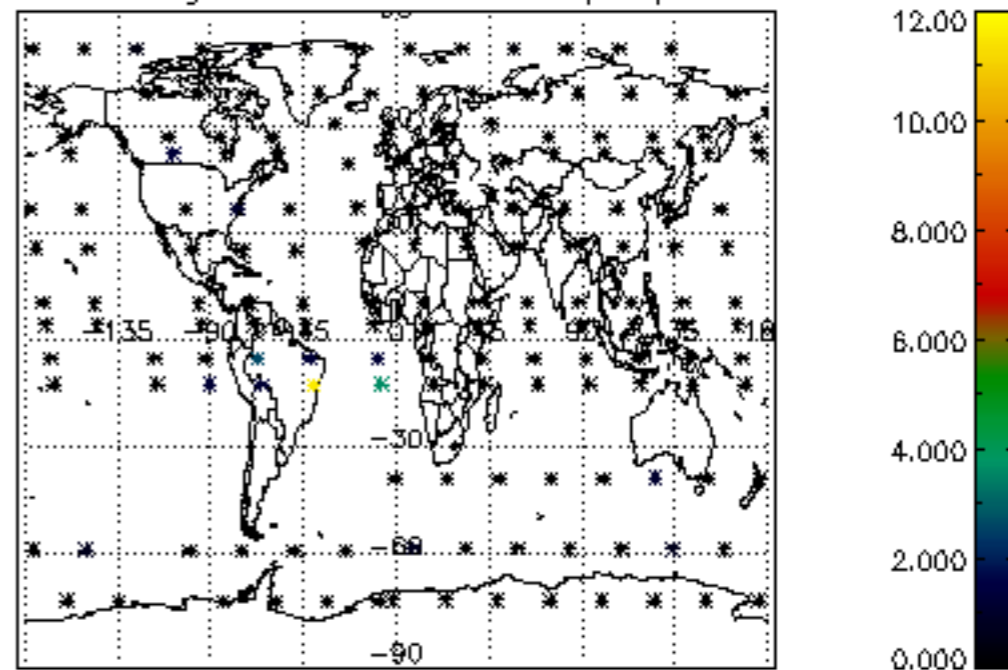
Percentage of datation errors per profile



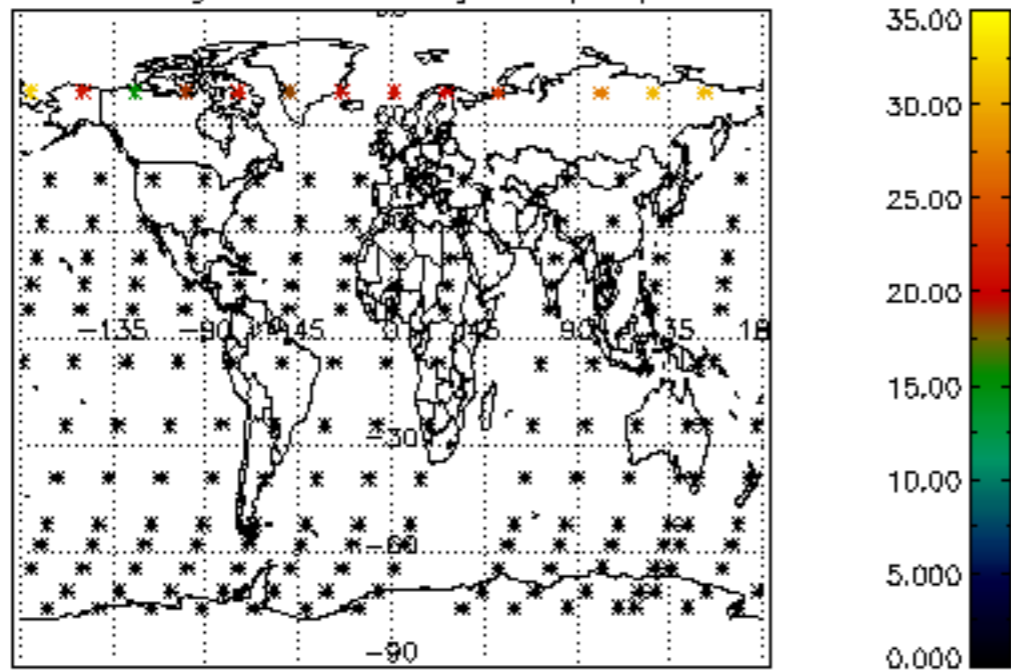
Percentage of star falling outside central band per profile



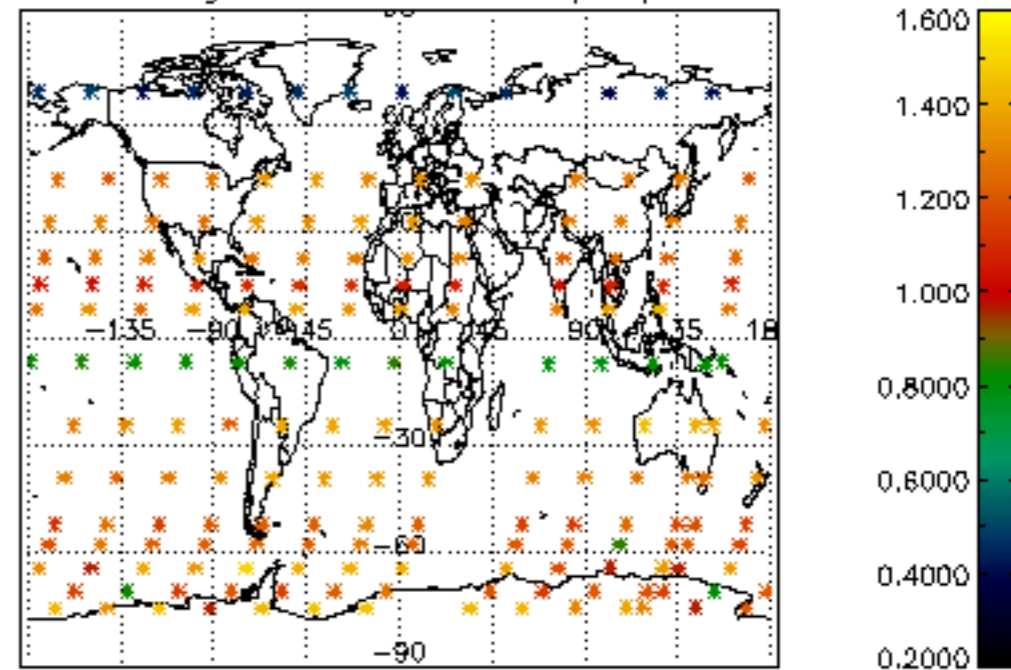
Percentage of saturation errors per profile



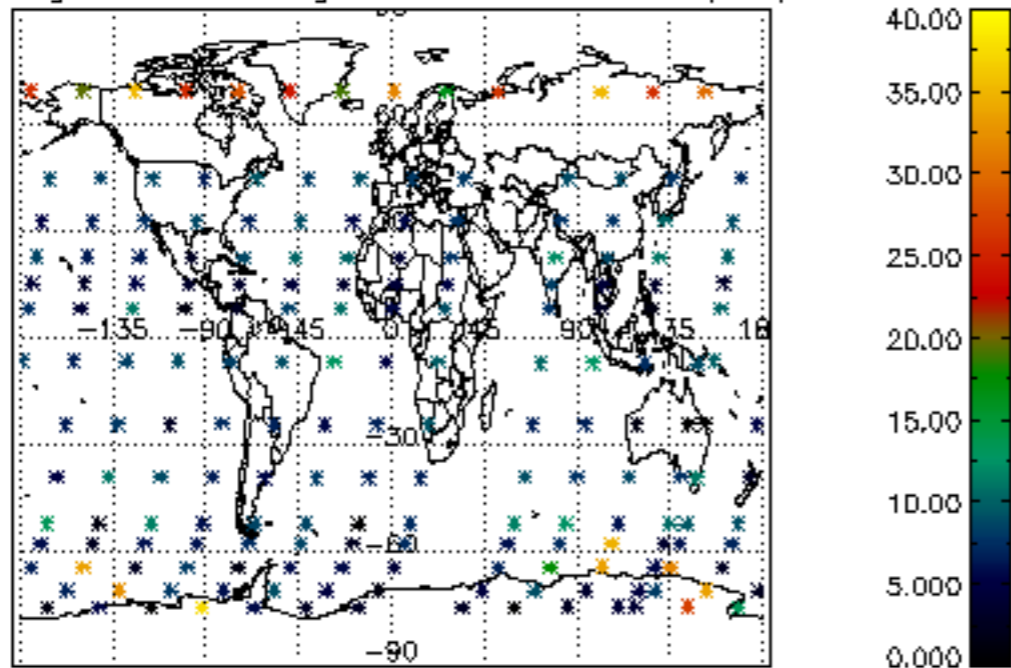
Percentage of cosmic ray hits per profile



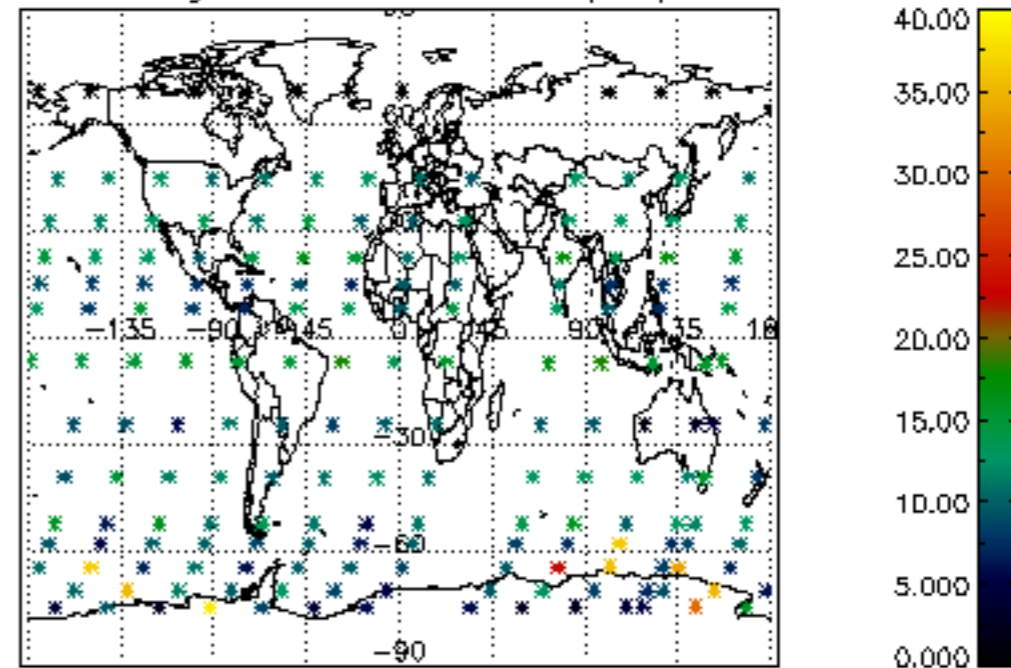
Percentage of datation errors per profile

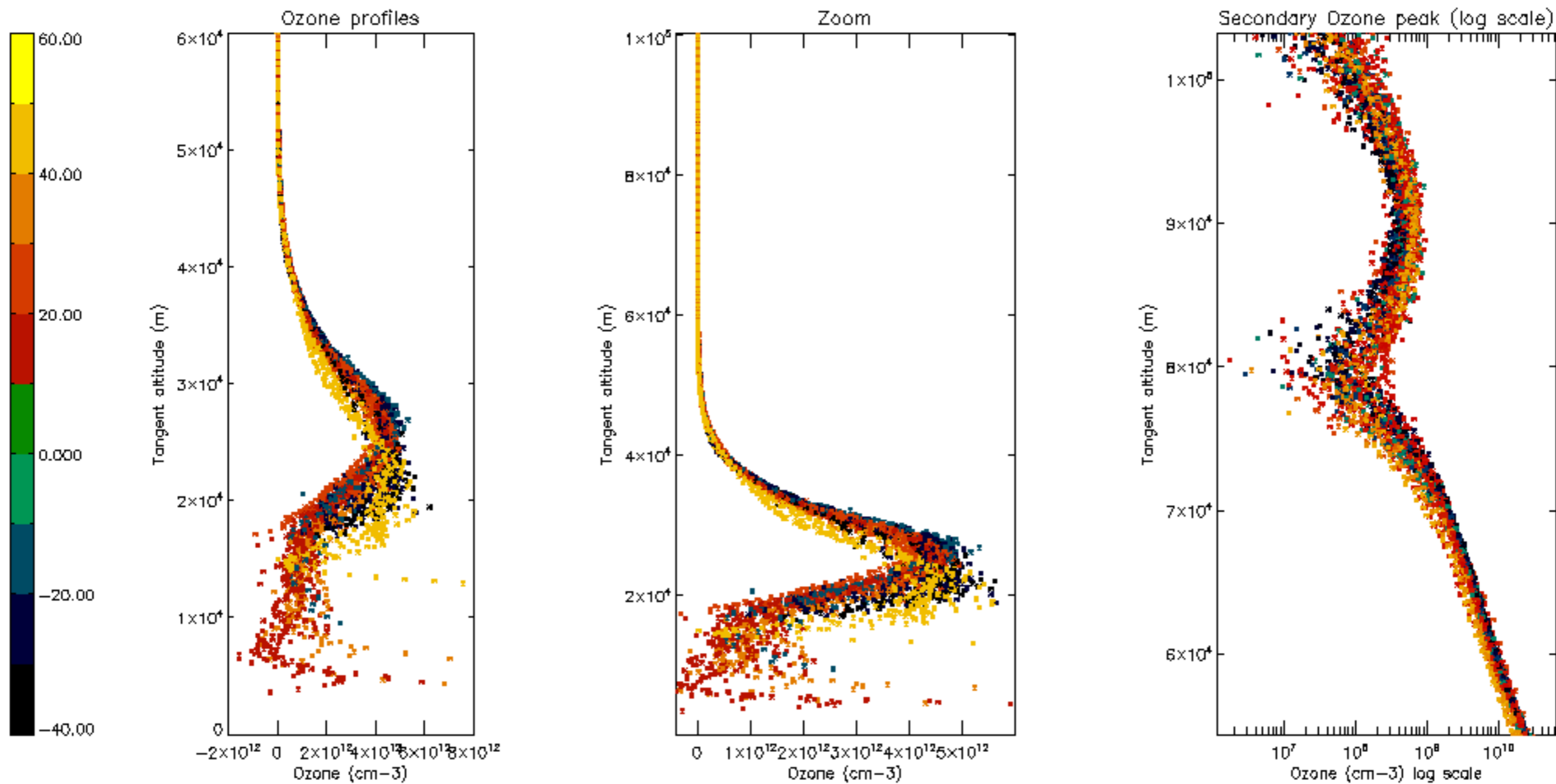


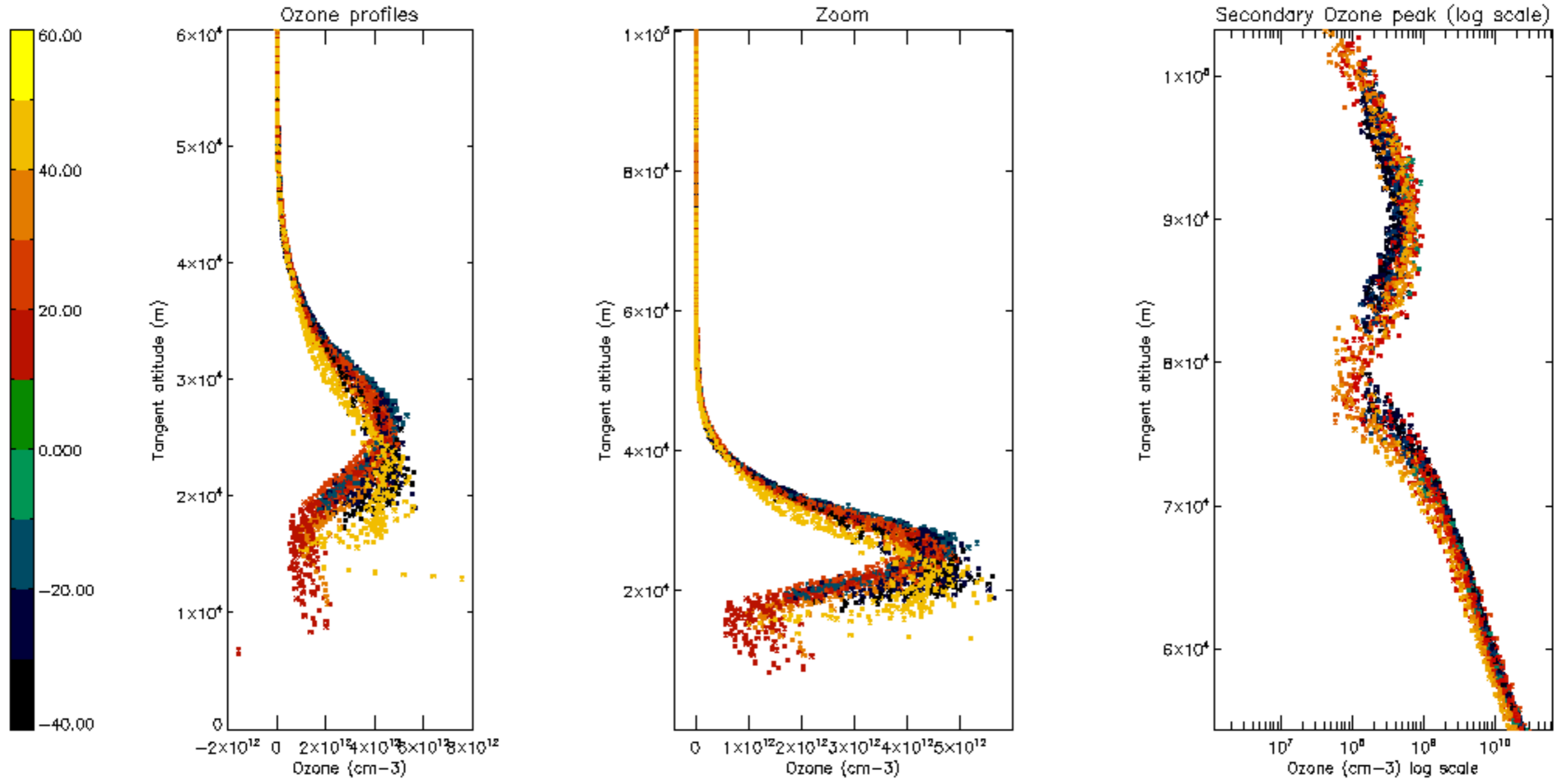
Percentage of star falling outside central band per profile

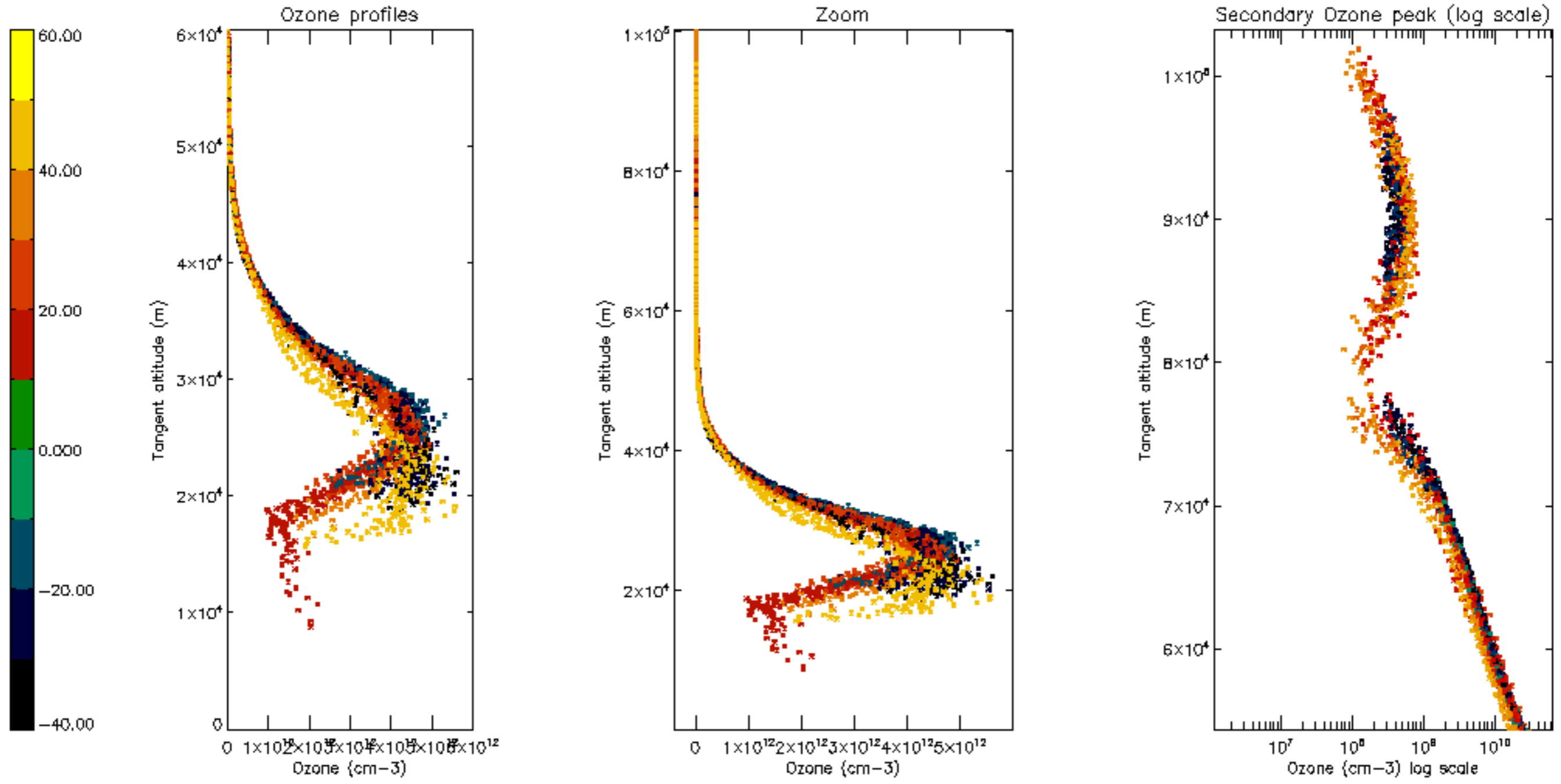


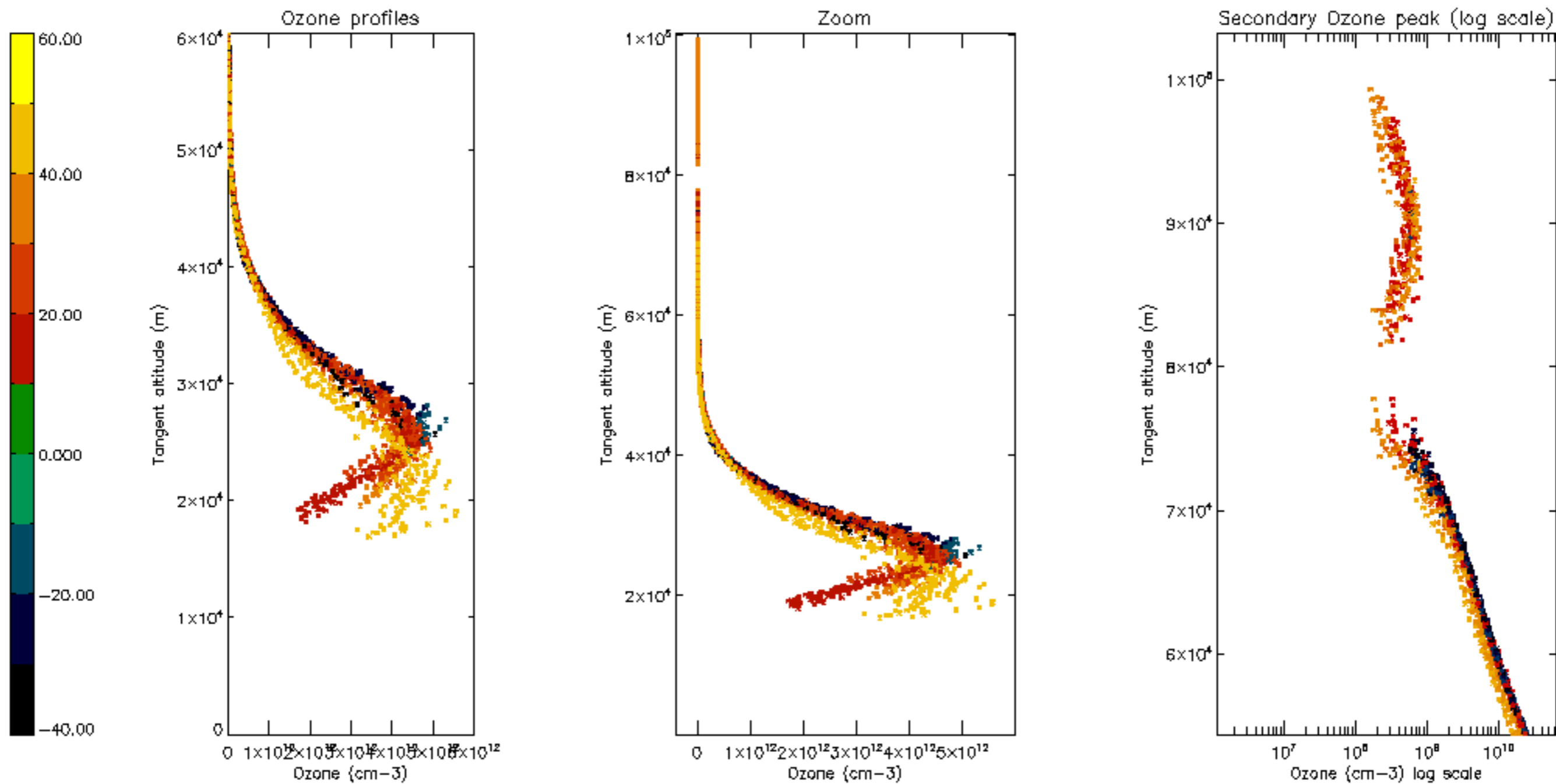
Percentage of saturation errors per profile

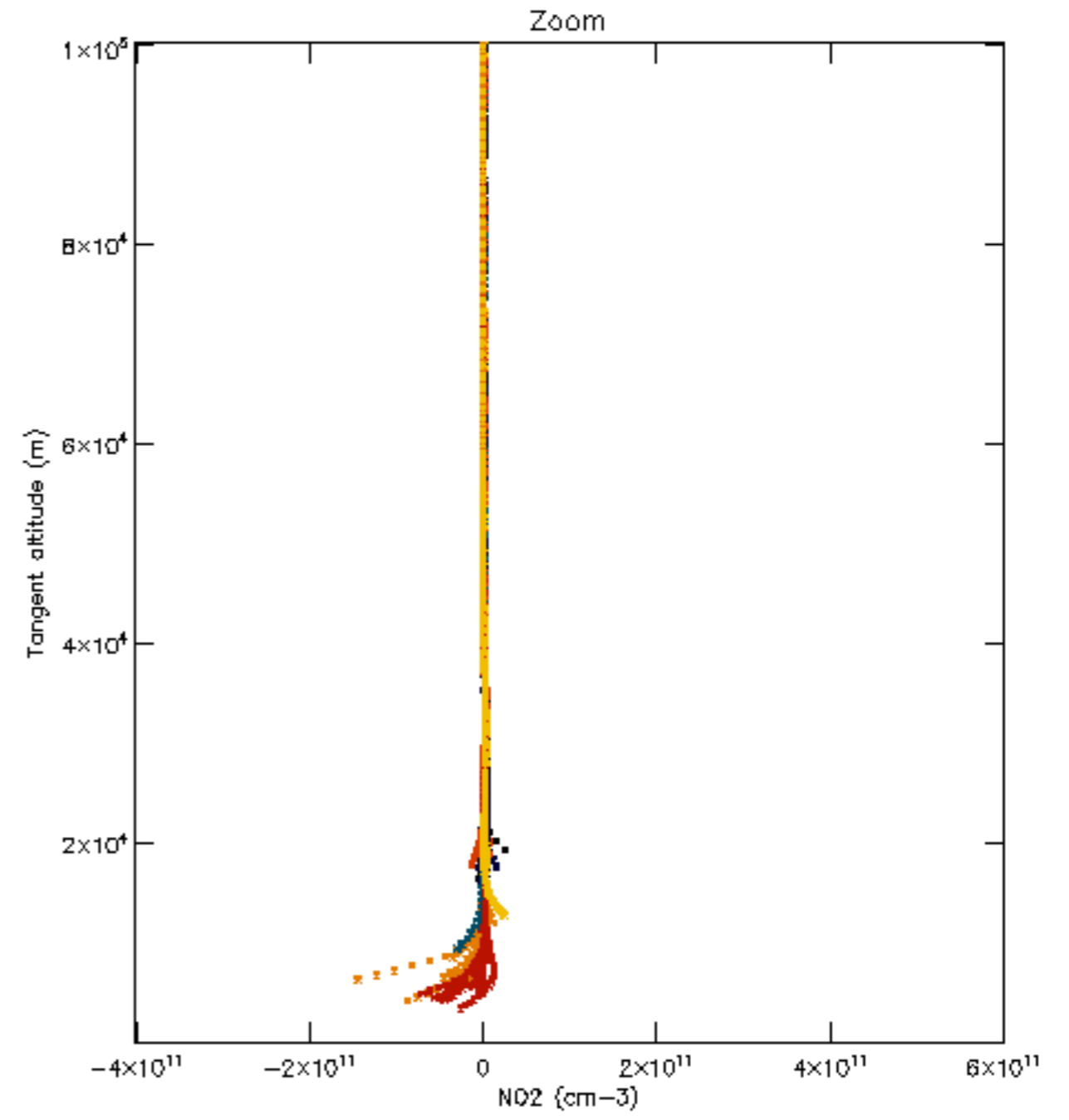
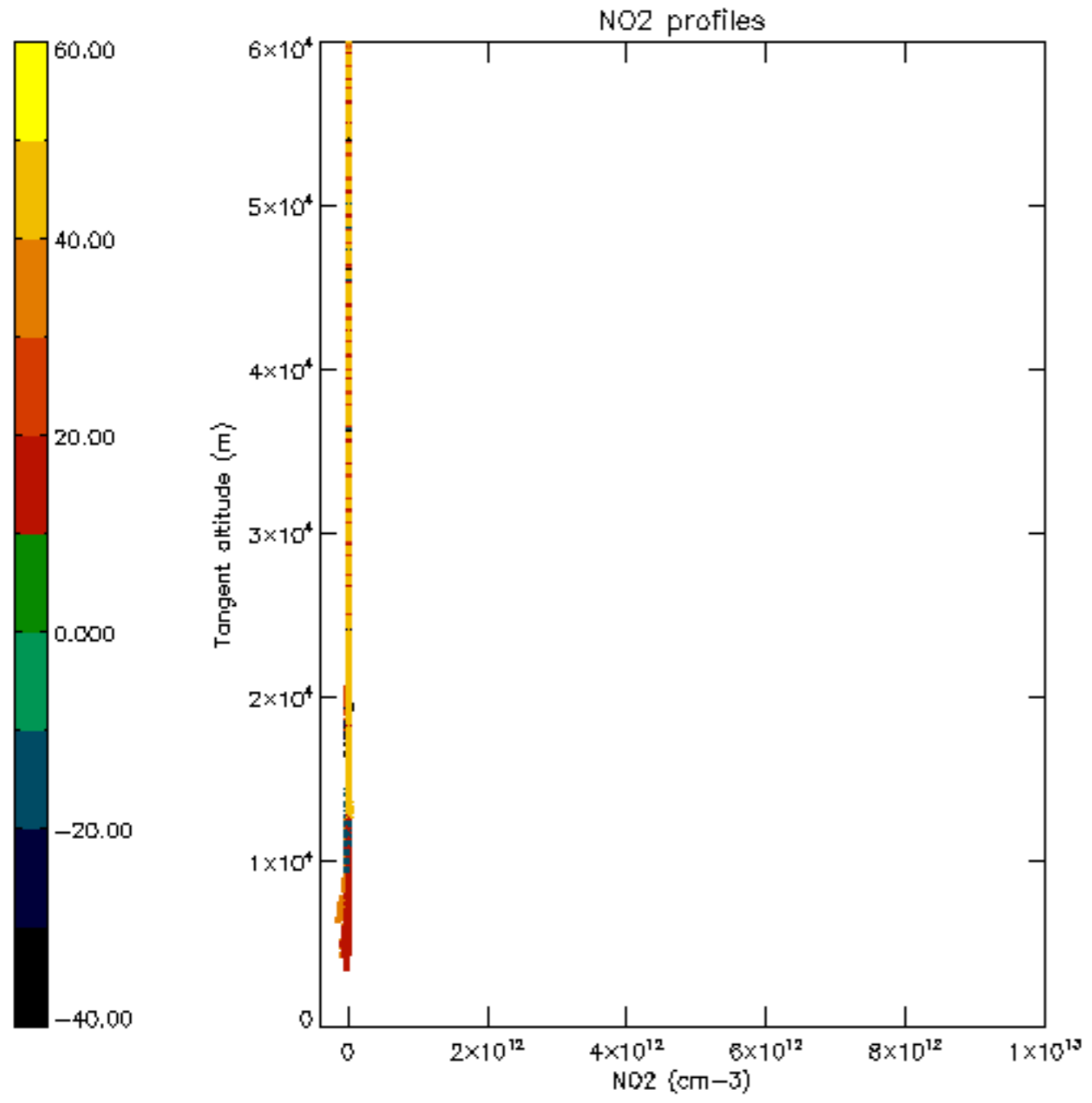


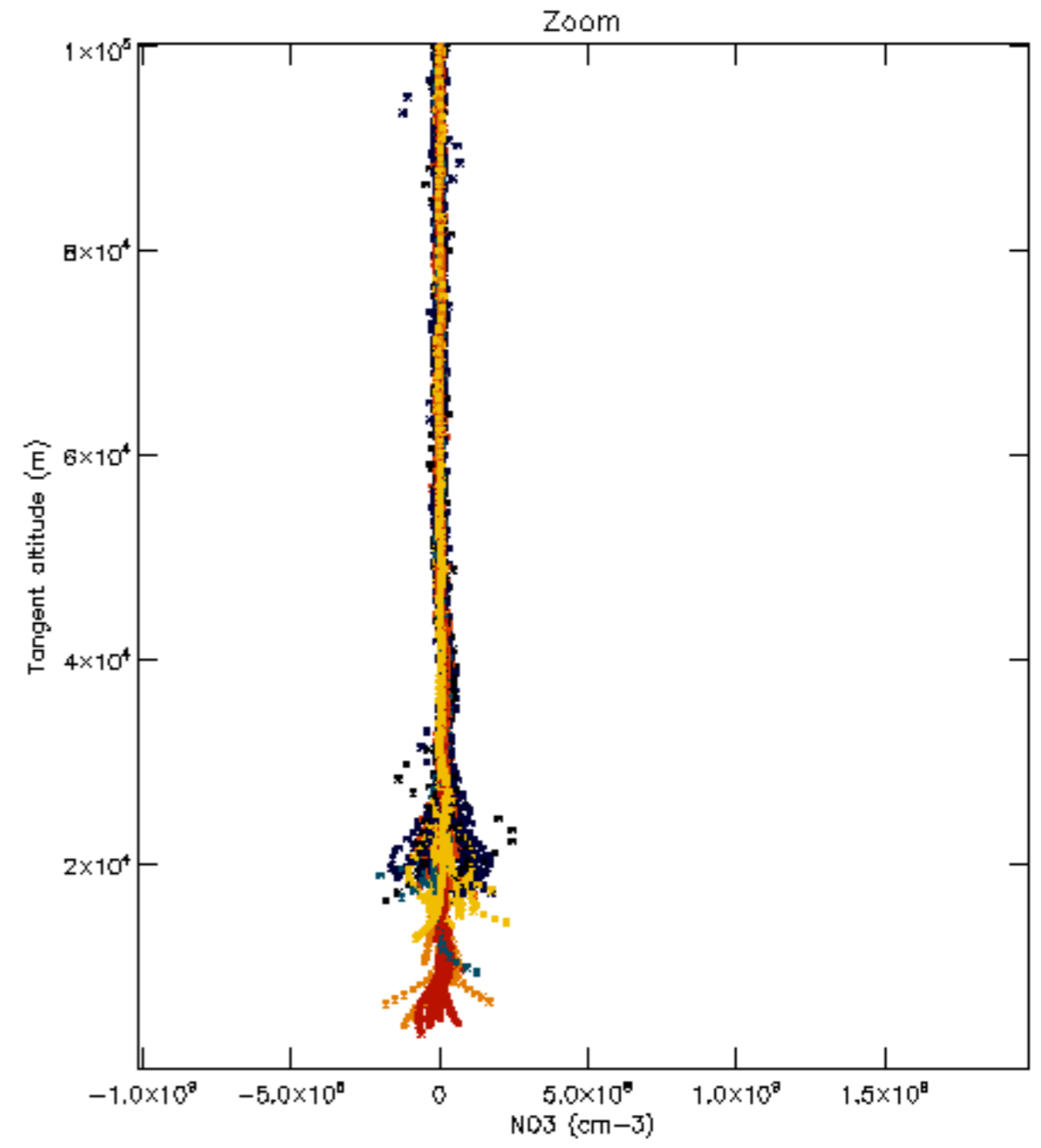
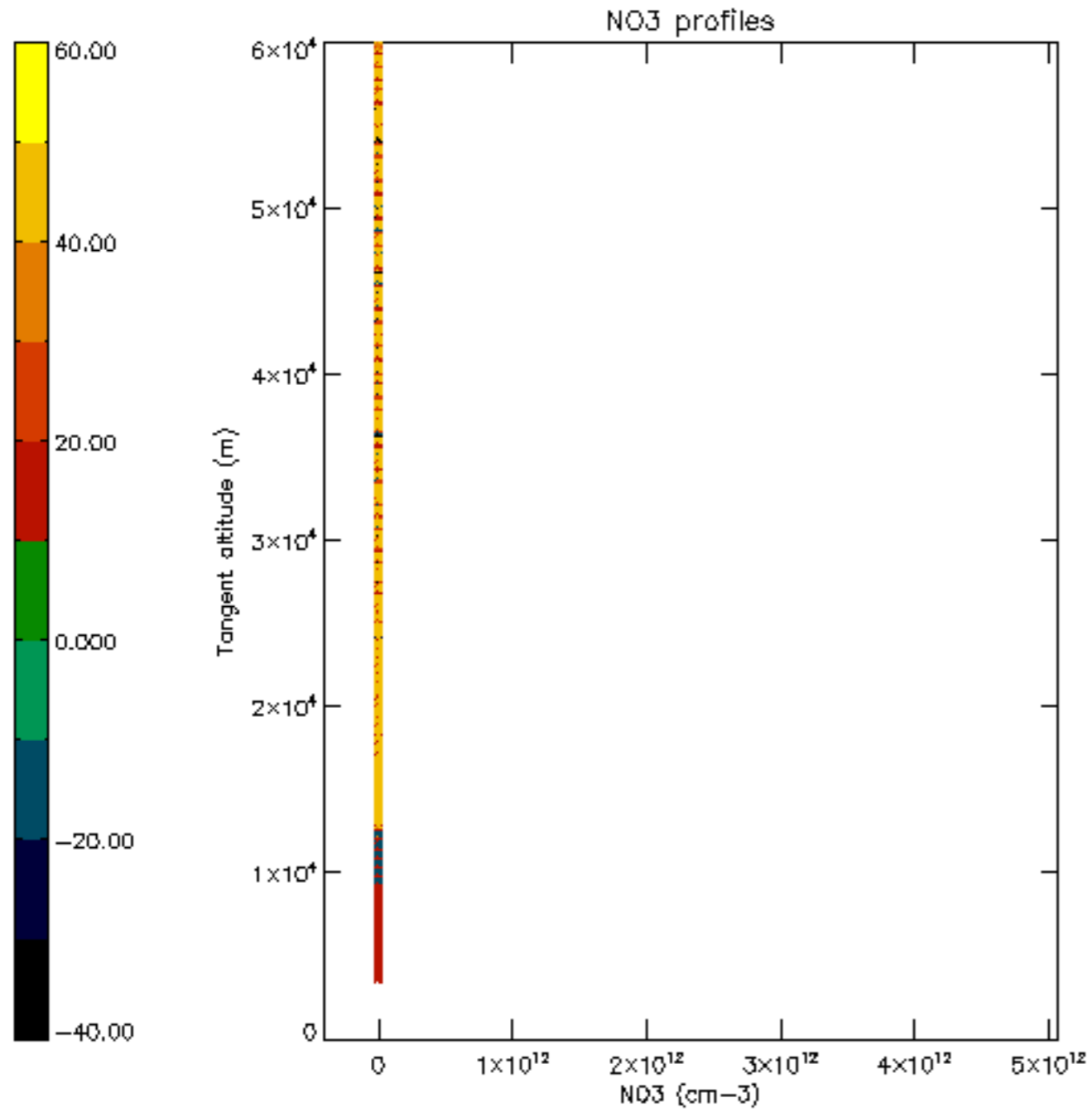


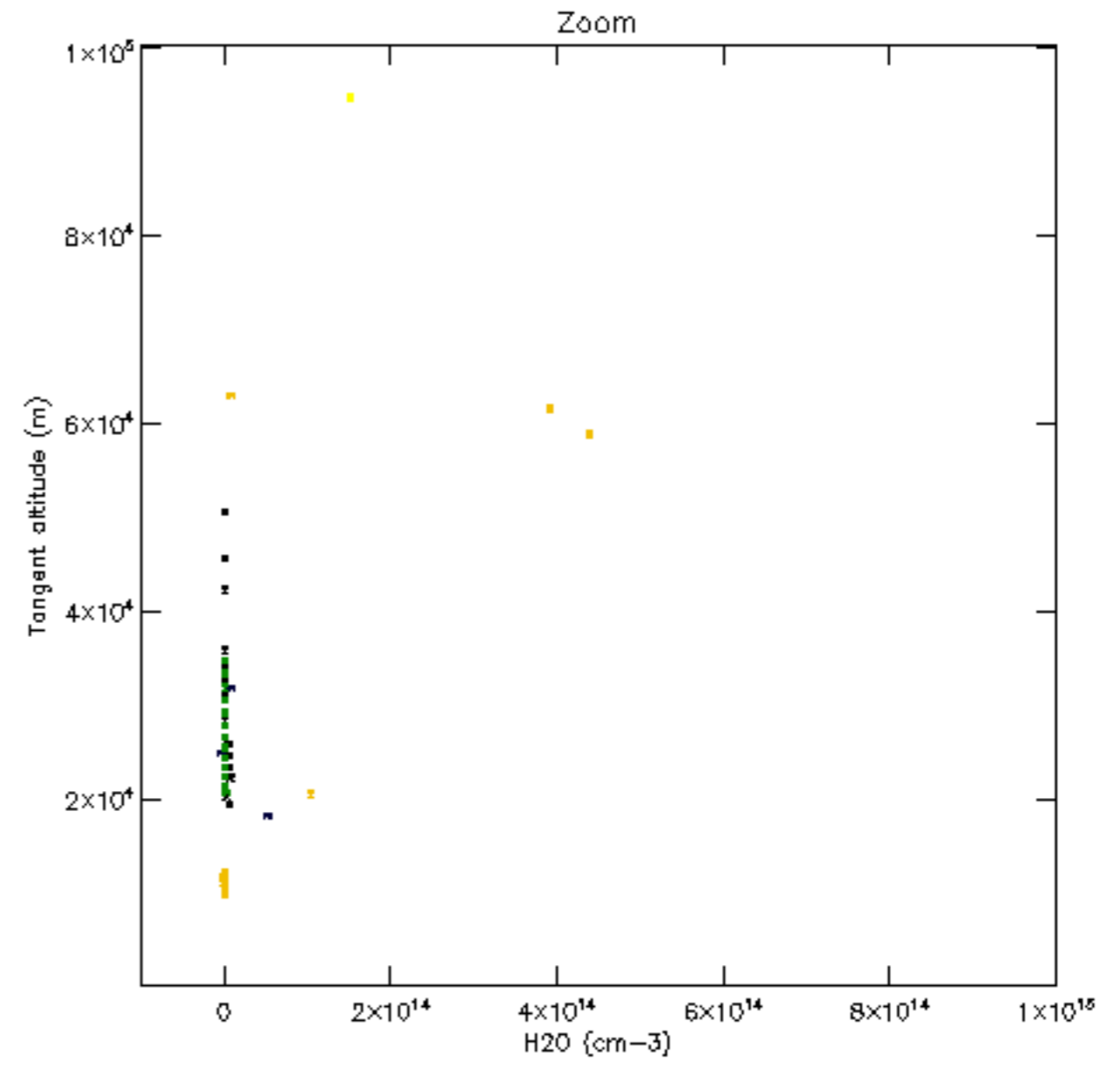
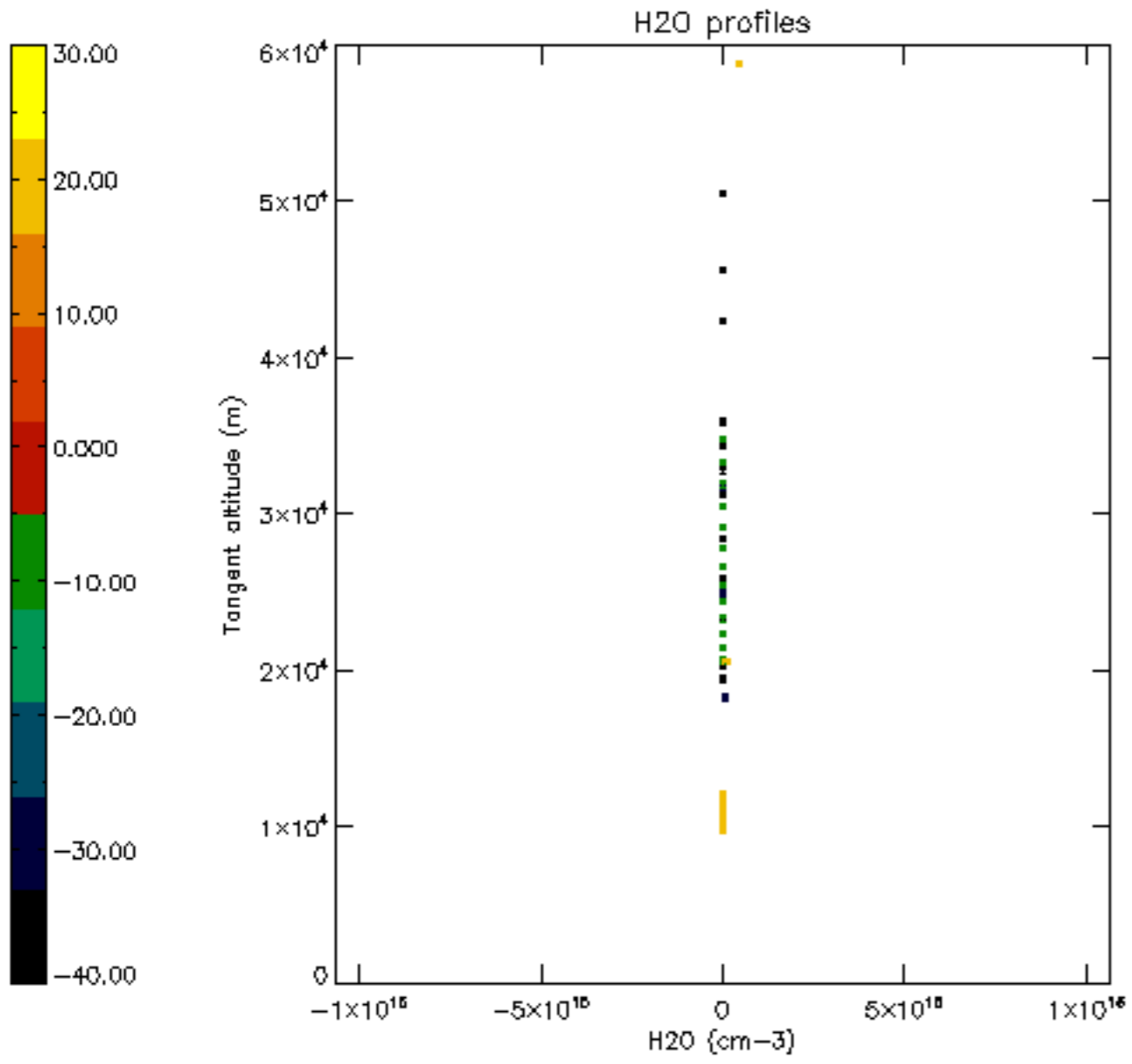


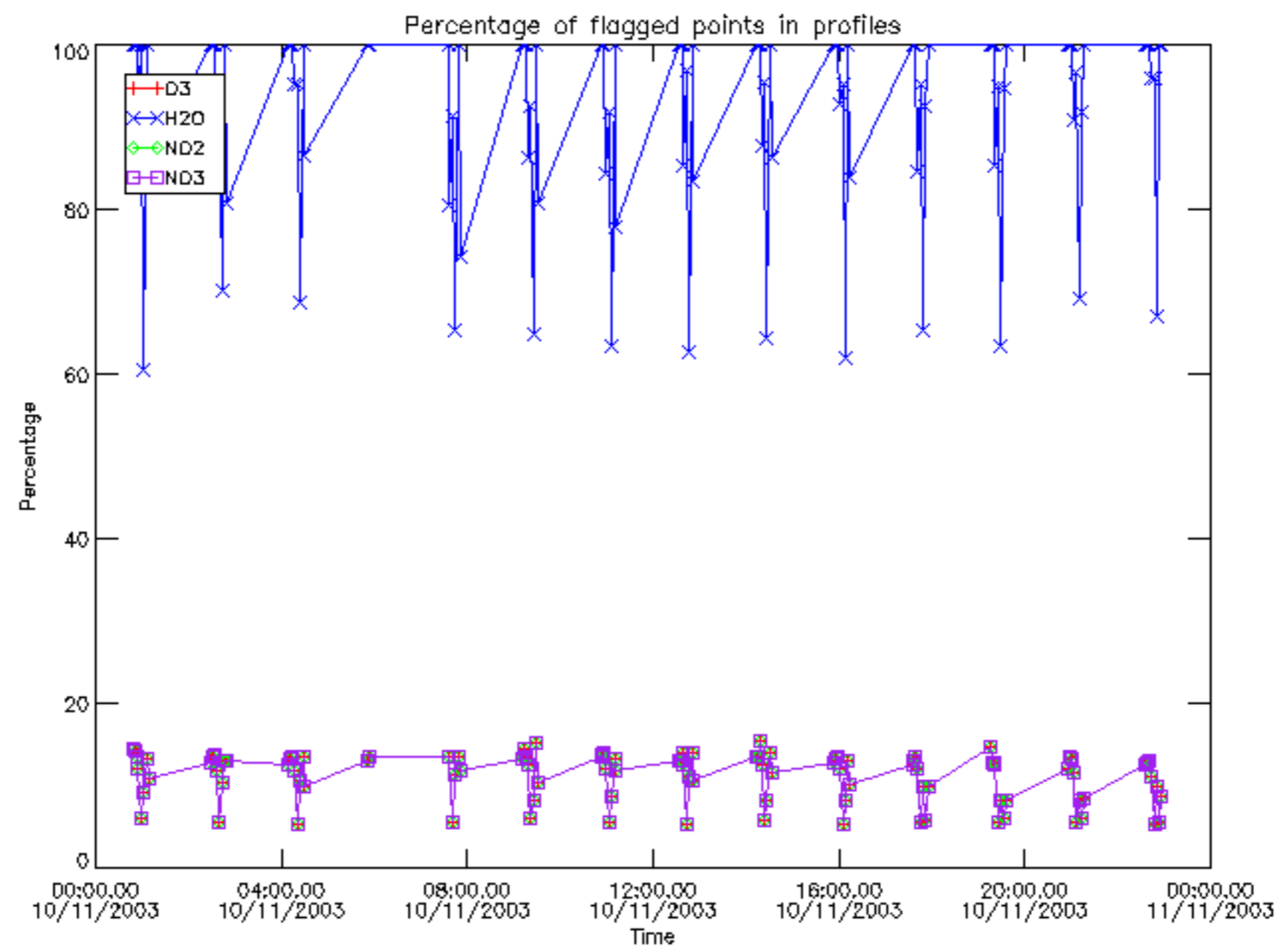




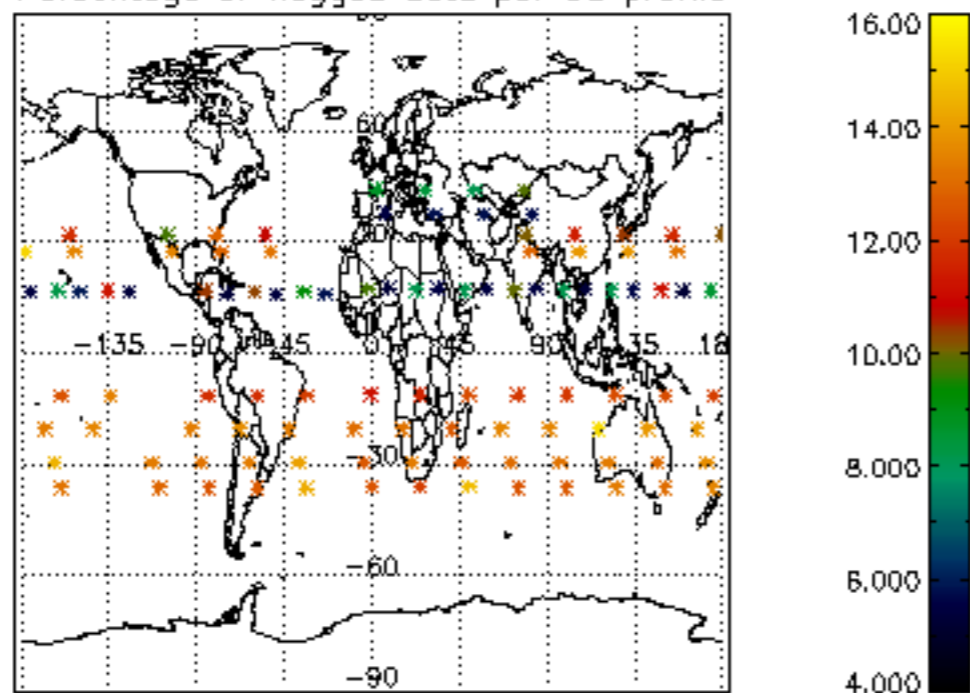




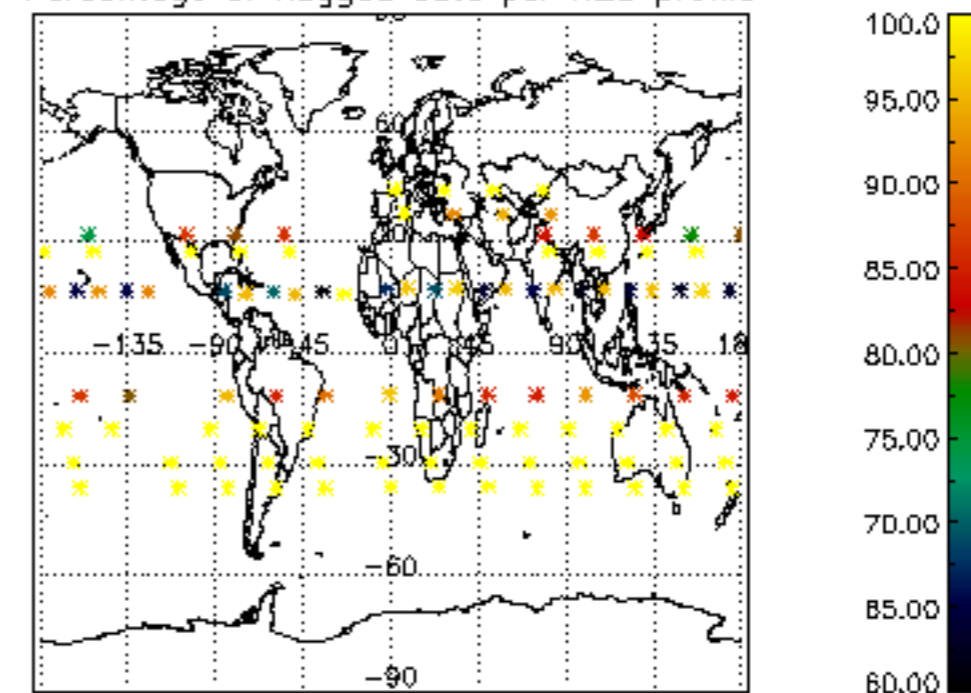




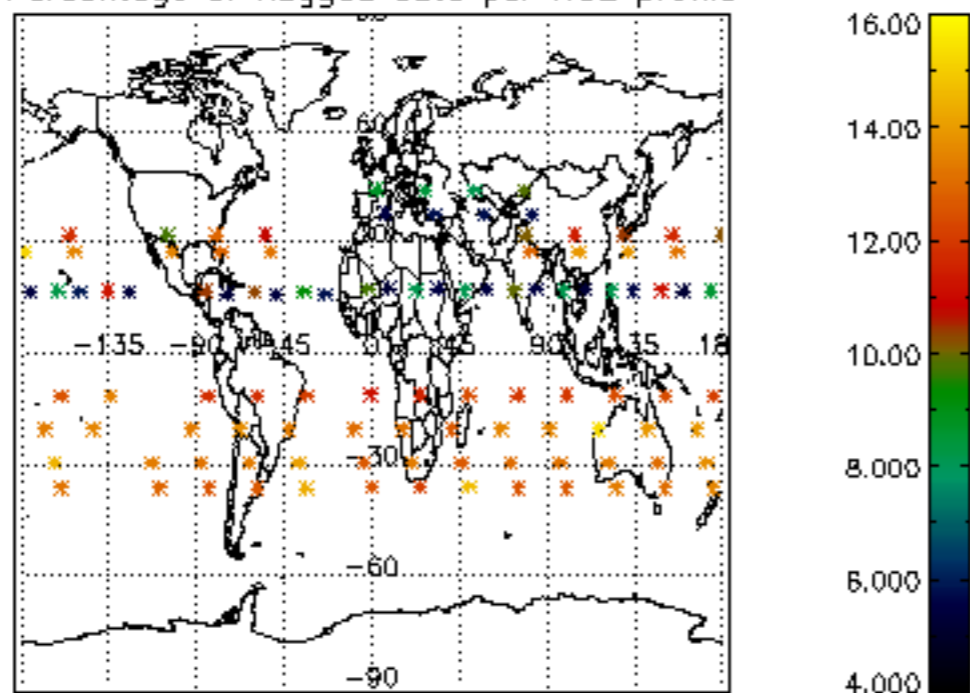
Percentage of flagged data per D3 profile



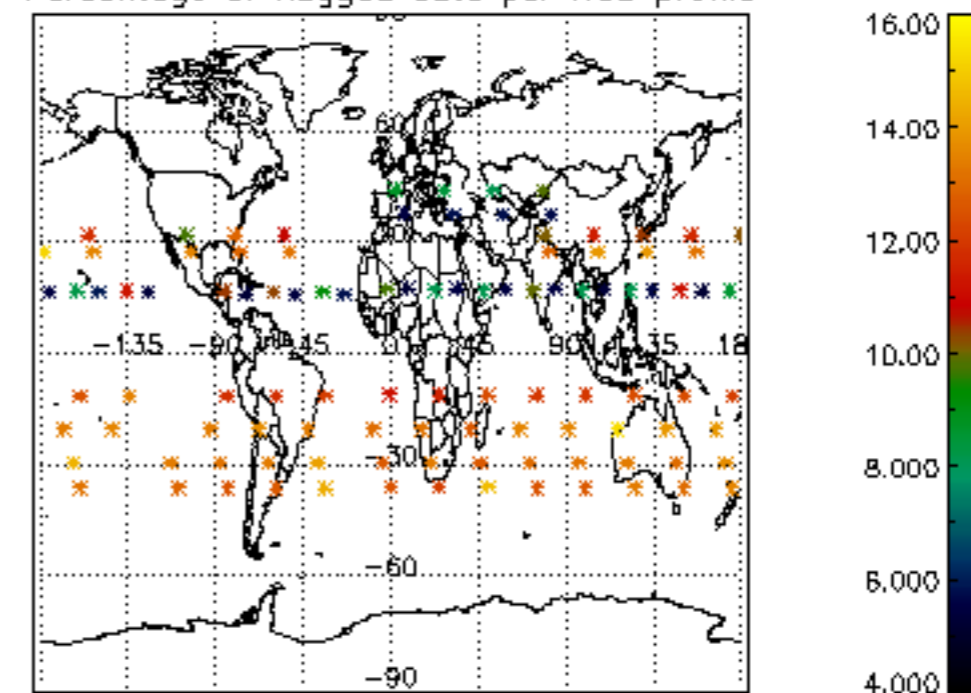
Percentage of flagged data per H2O profile

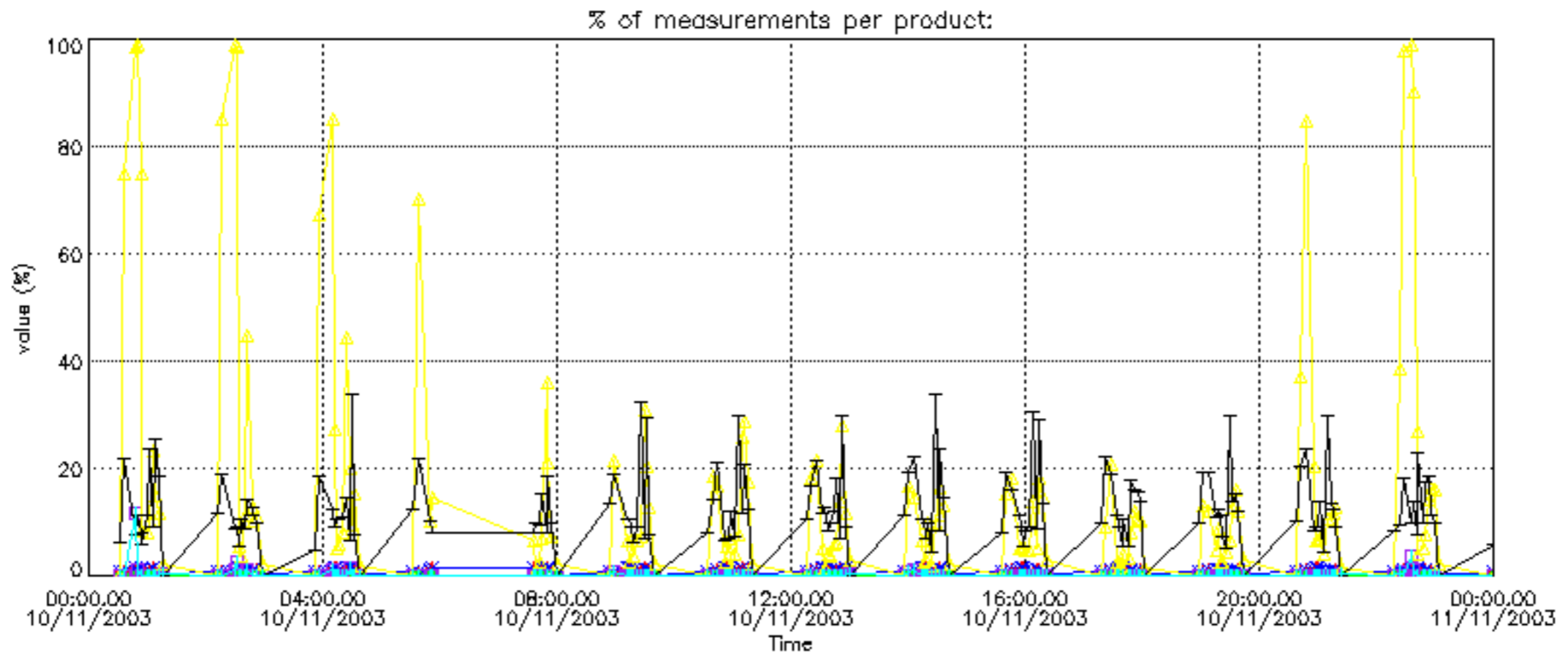


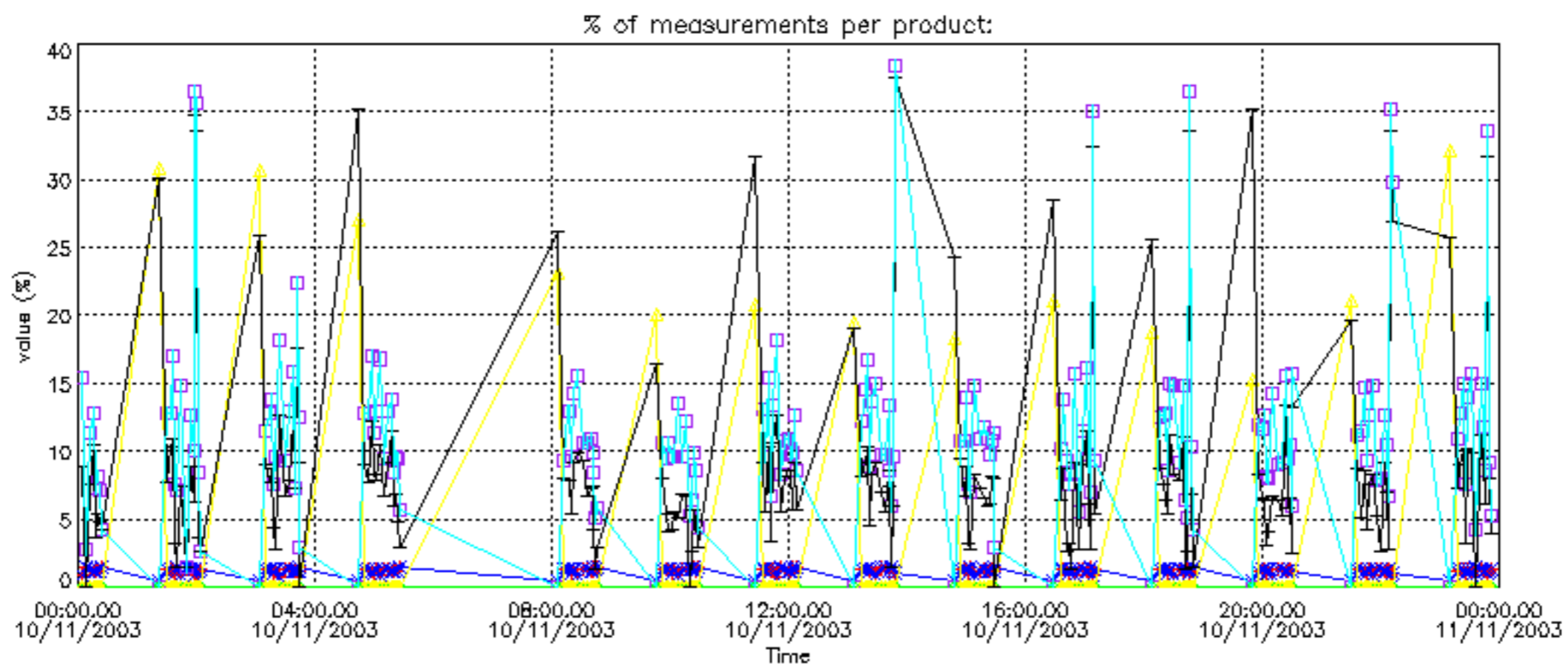
Percentage of flagged data per NO2 profile



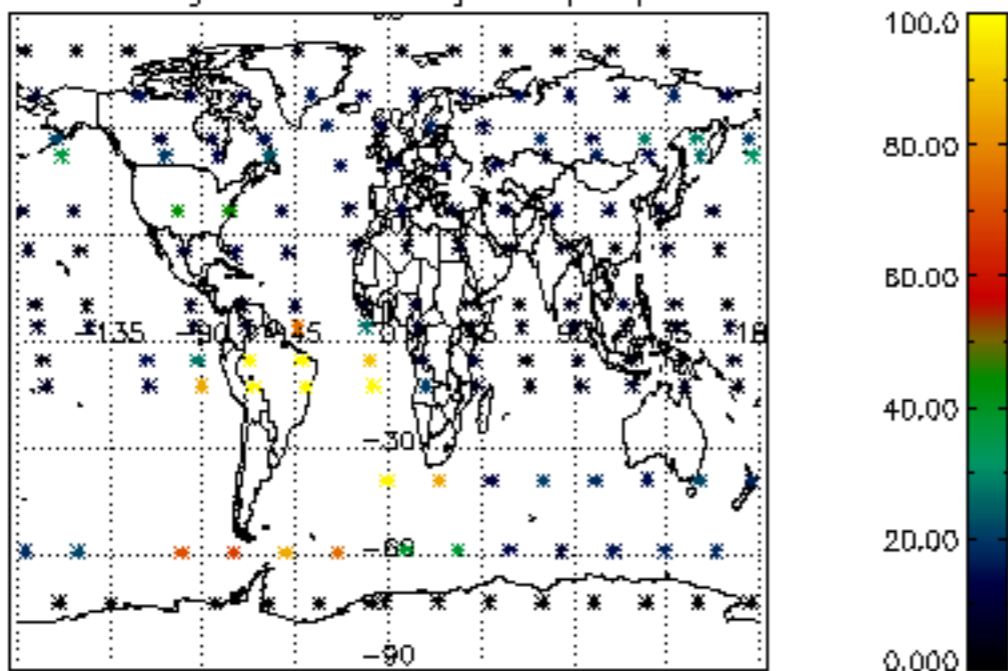
Percentage of flagged data per NO3 profile



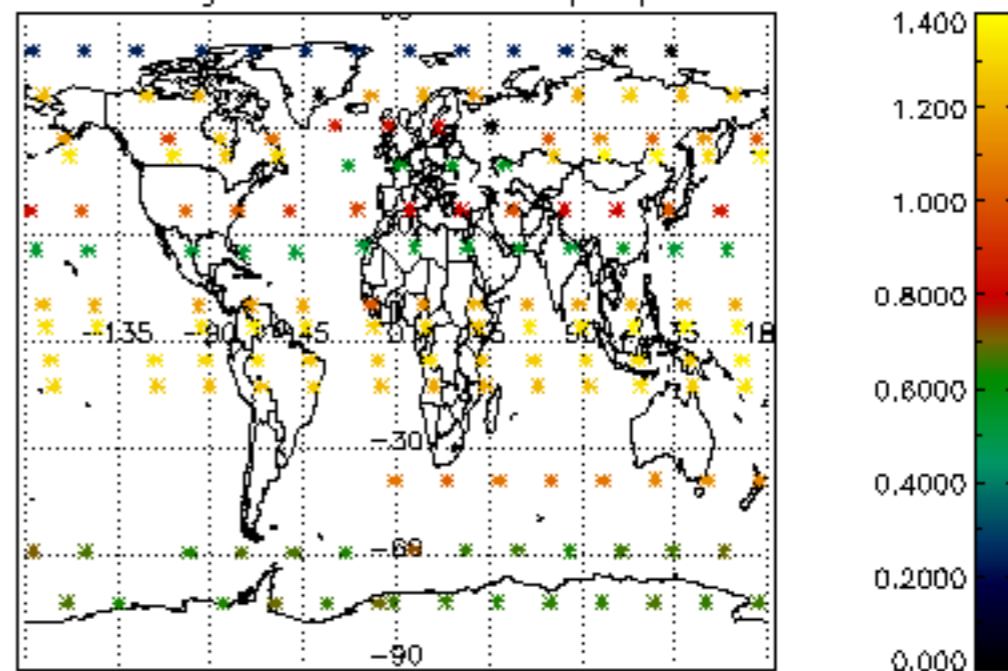




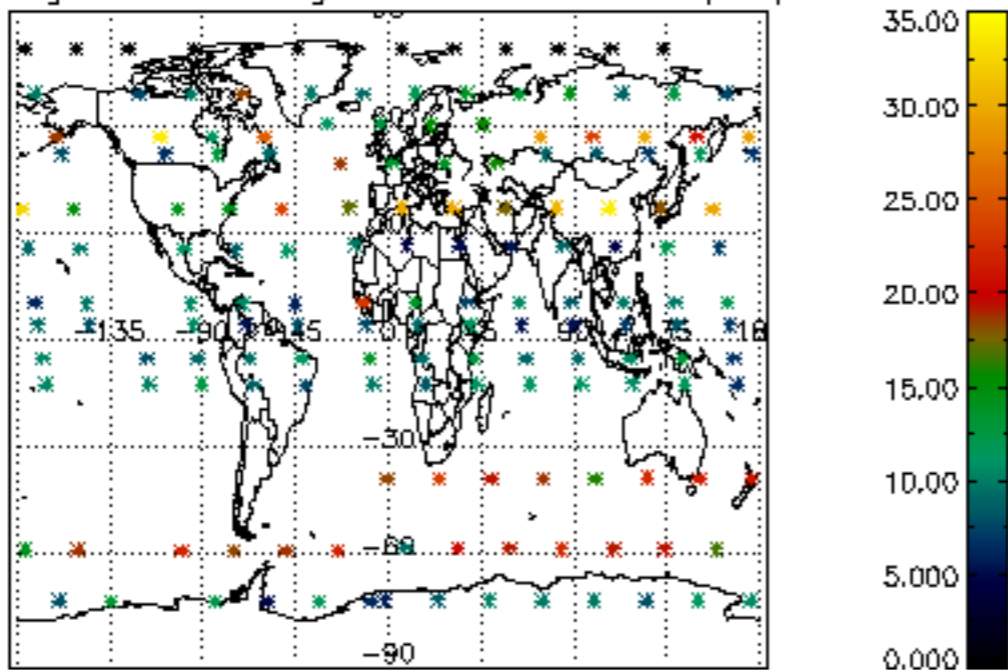
Percentage of cosmic ray hits per profile



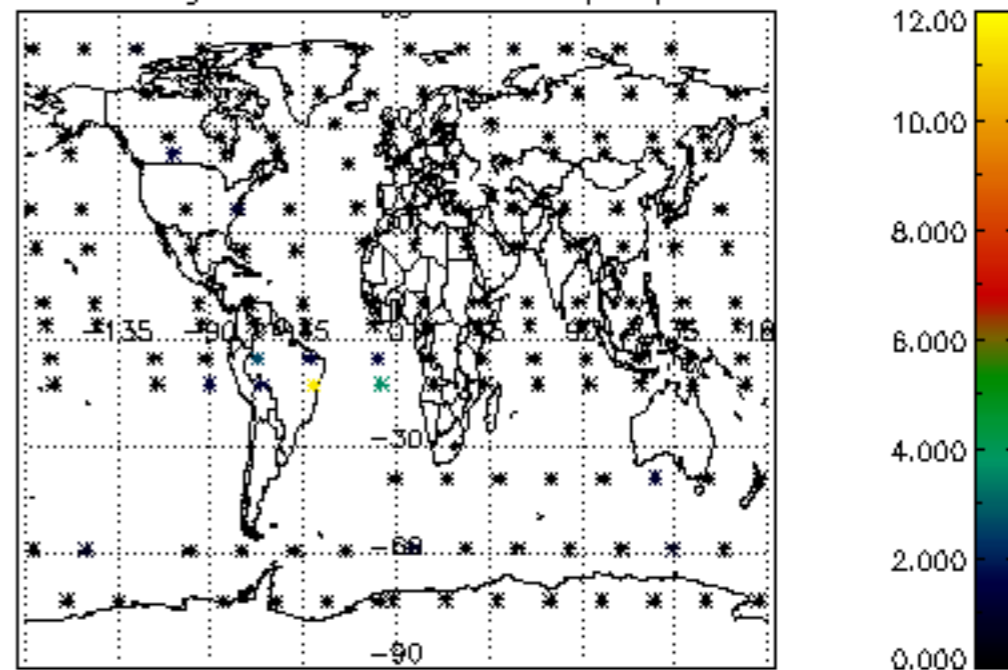
Percentage of datation errors per profile



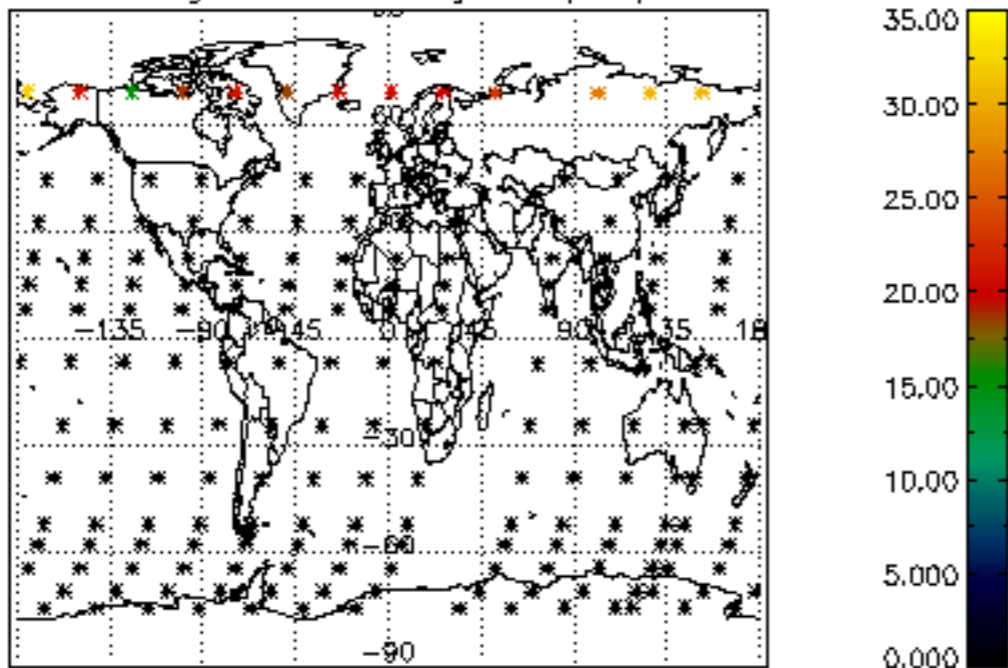
Percentage of star falling outside central band per profile



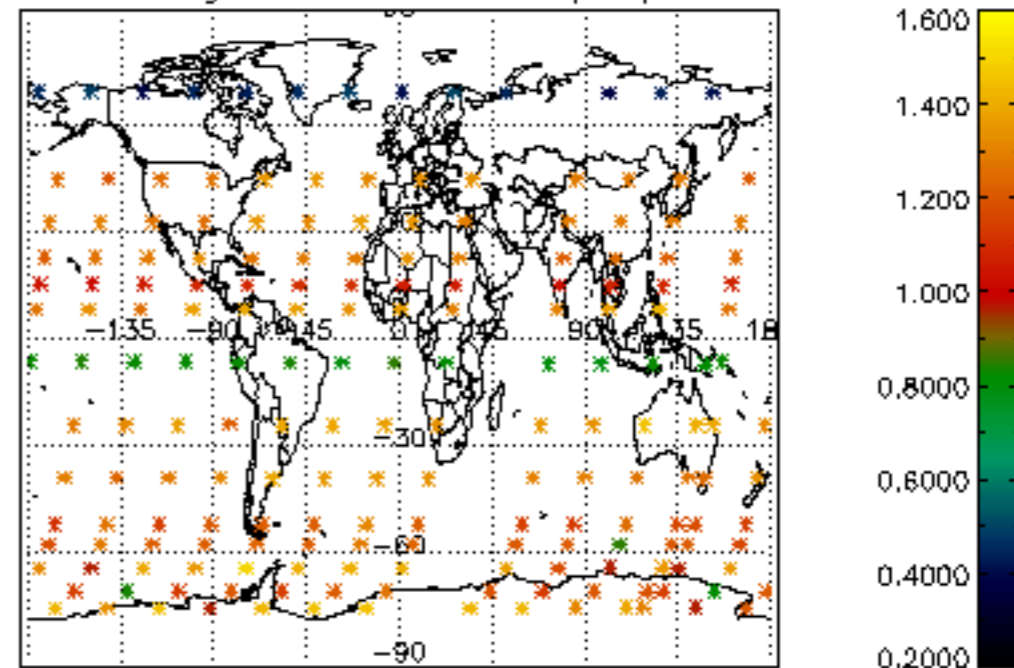
Percentage of saturation errors per profile



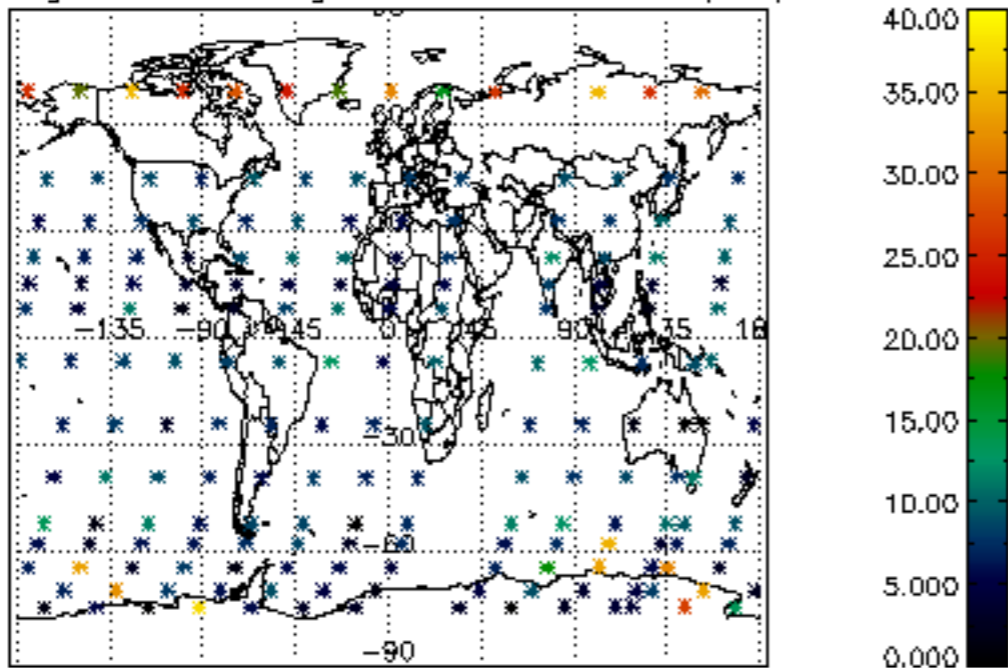
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

