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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	19APR2013 14:24:56
Data source version	GOMOS/6.01
Start time of products	01-11-2004 (01NOV2004 00:00:00)
Stop time of products	02-11-2004 (02NOV2004 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.

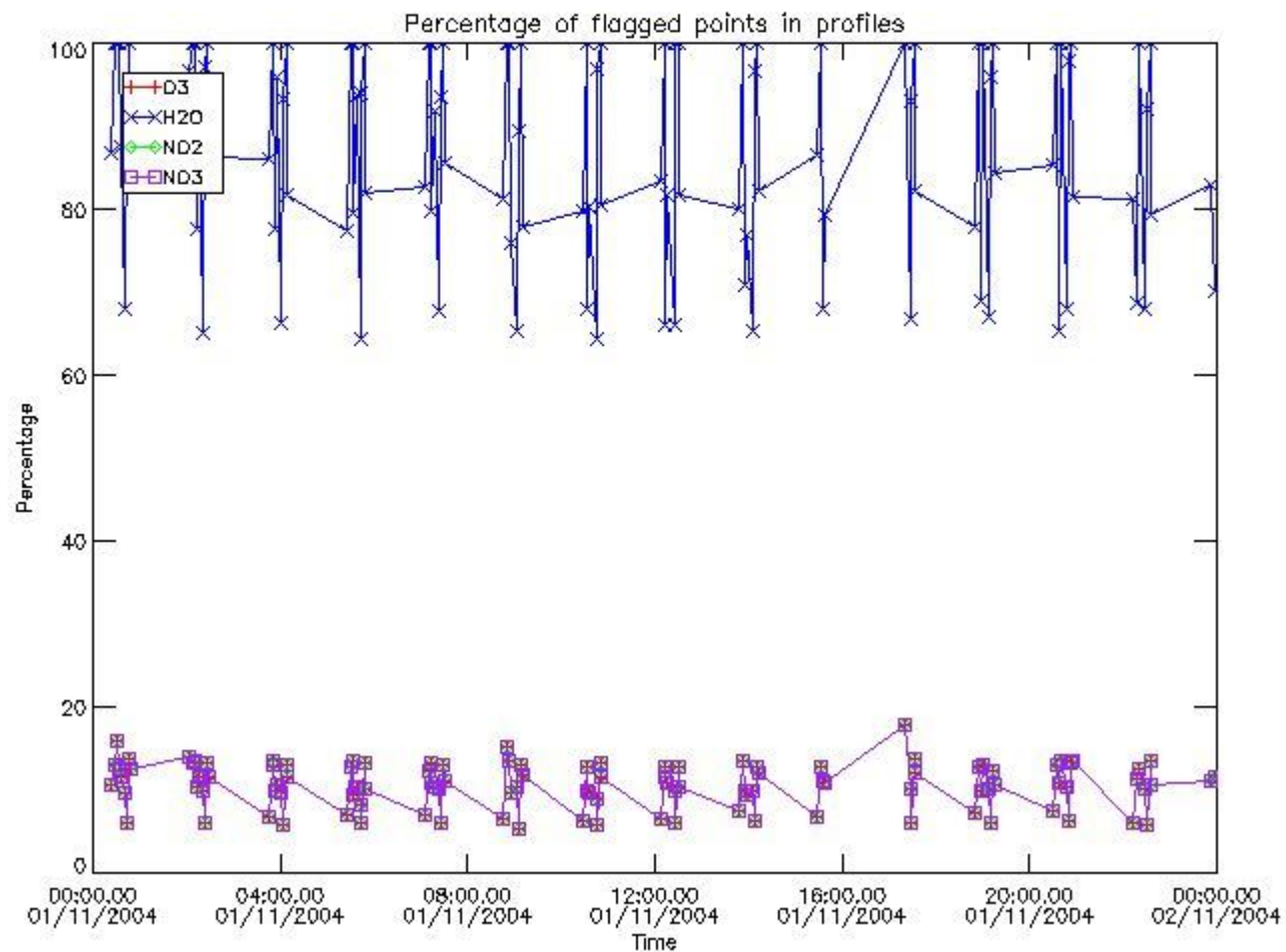
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20041101_000154_000000422031_00388_13969_5645.N1	01-NOV-2004 00:01:54	Bright	42.000	174	52Psi UMa	3.0040	4400.0	84	13969	No
2	GOM_NL__2PRFIN20041101_000919_000002552031_00388_13969_5646.N1	01-NOV-2004 00:09:19	Twilight_stray	254.50	24	66Alp Gem	1.5800	10200.	509	13969	No
3	GOM_NL__2PRFIN20041101_002312_000000722031_00388_13969_5647.N1	01-NOV-2004 00:23:12	Dark	72.000	48	30Alp Hya	1.9770	4100.0	144	13969	No
4	GOM_NL__2PRFIN20041101_002808_000000392031_00388_13969_5648.N1	01-NOV-2004 00:28:08	Dark	39.000	99	Del Cen	2.5750	26000.	78	13969	No
5	GOM_NL__2PRFIN20041101_003017_000000392031_00388_13969_5649.N1	01-NOV-2004 00:30:17	Dark	38.500	129	Del Cru	2.7930	26000.	77	13969	No
6	GOM_NL__2PRFIN20041101_003257_000000412031_00389_13970_5615.N1	01-NOV-2004 00:32:57	Dark	41.000	91	Kap Vel	2.4900	26000.	82	13970	No
7	GOM_NL__2PRFIN20041101_003522_000000482031_00389_13970_5616.N1	01-NOV-2004 00:35:22	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	13970	No
8	GOM_NL__2PRFIN20041101_004046_000000542031_00389_13970_5617.N1	01-NOV-2004 00:40:46	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	13970	No
9	GOM_NL__2PRFIN20041101_004222_000000862031_00389_13970_5618.N1	01-NOV-2004 00:42:22	Dark	86.000	23	21Eps CMa	1.5020	26000.	172	13970	No
10	GOM_NL__2PRFIN20041101_004622_000000412031_00389_13970_5619.N1	01-NOV-2004 00:46:22	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	13970	No
11	GOM_NL__2PRFIN20041101_004745_000000412031_00389_13970_5620.N1	01-NOV-2004 00:47:45	Dark	40.500	9	Alp Eri	0.45300	24000.	81	13970	No
12	GOM_NL__2PRFIN20041101_005103_000000462031_00389_13970_5621.N1	01-NOV-2004 00:51:03	Straylight	46.000	157	The1Eri	2.9060	9300.0	92	13970	No
13	GOM_NL__2PRFIN20041101_005357_000001752031_00389_13970_5622.N1	01-NOV-2004 00:53:57	Straylight	175.00	1	9Alp CMa	-1.4400	11000.	350	13970	No
14	GOM_NL__2PRFIN20041101_005906_000000442031_00389_13970_5623.N1	01-NOV-2004 00:59:06	Straylight	43.500	52	16Bet Cet	2.0370	4500.0	87	13970	No
15	GOM_NL__2PRFIN20041101_010529_000000622031_00389_13970_5624.N1	01-NOV-2004 01:05:29	Twilight_stray	61.500	94	92Alp Cet	2.5260	3100.0	123	13970	No
16	GOM_NL__2PRFIN20041101_010837_000000372031_00389_13970_5625.N1	01-NOV-2004 01:08:37	Bright	36.500	140	88Gam Peg	2.8340	26000.	73	13970	No
17	GOM_NL__2PRFIN20041101_011050_000000442031_00389_13970_5626.N1	01-NOV-2004 01:10:50	Bright	44.000	50	13Alp Ari	2.0070	4250.0	88	13970	No
18	GOM_NL__2PRFIN20041101_011226_000000412031_00389_13970_5627.N1	01-NOV-2004 01:12:26	Bright	40.500	58	21Alp And	2.0730	11000.	81	13970	No
19	GOM_NL__2PRFIN20041101_011354_000000412031_00389_13970_5628.N1	01-NOV-2004 01:13:54	Bright	41.000	53	43Bet And	2.0480	3300.0	82	13970	No
20	GOM_NL__2PRFIN20041101_011620_000000412031_00389_13970_5629.N1	01-NOV-2004 01:16:20	Bright	40.500	73	57Gam1And	2.2600	13100.	81	13970	No
21	GOM_NL__2PRFIN20041101_011948_000000392031_00389_13970_5630.N1	01-NOV-2004 01:19:48	Bright	38.500	68	18Alp Cas	2.2250	4500.0	77	13970	No
22	GOM_NL__2PRFIN20041101_012057_000000412031_00389_13970_5631.N1	01-NOV-2004 01:20:57	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	13970	No
23	GOM_NL__2PRFIN20041101_012403_000000892031_00389_13970_5632.N1	01-NOV-2004 01:24:03	Bright	88.500	114	3lot Aur	2.6930	4600.0	177	13970	No
24	GOM_NL__2PRFIN20041101_012904_000000382031_00389_13970_5633.N1	01-NOV-2004 01:29:04	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	13970	No
25	GOM_NL__2PRFIN20041101_013254_000000402031_00389_13970_5634.N1	01-NOV-2004 01:32:54	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	13970	No
26	GOM_NL__2PRFIN20041101_013713_000000422031_00389_13970_5635.N1	01-NOV-2004 01:37:13	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	13970	No
27	GOM_NL__2PRFIN20041101_013849_000000402031_00389_13970_5636.N1	01-NOV-2004 01:38:49	Bright	39.500	82	48Bet UMa	2.3650	10600.	79	13970	No
28	GOM_NL__2PRFIN20041101_014229_000000402031_00389_13970_5637.N1	01-NOV-2004 01:42:29	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	13970	No
29	GOM_NL__2PRFIN20041101_014956_000002552031_00389_13970_5638.N1	01-NOV-2004 01:49:56	Twilight_stray	254.50	24	66Alp Gem	1.5800	10200.	509	13970	No
30	GOM_NL__2PRFIN20041101_020349_000000722031_00389_13970_5639.N1	01-NOV-2004 02:03:49	Dark	72.000	48	30Alp Hya	1.9770	4100.0	144	13970	No
31	GOM_NL__2PRFIN20041101_020844_000000392031_00389_13970_5640.N1	01-NOV-2004 02:08:44	Dark	38.500	99	Del Cen	2.5750	26000.	77	13970	No
32	GOM_NL__2PRFIN20041101_021054_000000382031_00389_13970_5641.N1	01-NOV-2004 02:10:54	Dark	37.500	129	Del Cru	2.7930	26000.	75	13970	No
33	GOM_NL__2PRFIN20041101_021221_000000502031_00389_13970_5642.N1	01-NOV-2004 02:12:21	Dark	49.500	65	Lam Vel	2.2040	4400.0	99	13970	No
34	GOM_NL__2PRFIN20041101_021558_000000482031_00390_13971_5615.N1	01-NOV-2004 02:15:58	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	13971	No
35	GOM_NL__2PRFIN20041101_022125_000000522031_00390_13971_5616.N1	01-NOV-2004 02:21:25	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	13971	No
36	GOM_NL__2PRFIN20041101_022301_000000852031_00390_13971_5617.N1	01-NOV-2004 02:23:01	Dark	84.500	23	21Eps CMa	1.5020	26000.	169	13971	No
37	GOM_NL__2PRFIN20041101_022658_000000392031_00390_13971_5618.N1	01-NOV-2004 02:26:58	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	13971	No
38	GOM_NL__2PRFIN20041101_022821_000000452031_00390_13971_5619.N1	01-NOV-2004 02:28:21	Dark	44.500	9	Alp Eri	0.45300	24000.	89	13971	No
39	GOM_NL__2PRFIN20041101_023140_000000432031_00390_13971_5620.N1	01-NOV-2004 02:31:40	Straylight	43.000	157	The1Eri	2.9060	9300.0	86	13971	No
40	GOM_NL__2PRFIN20041101_023436_000001752031_00390_13971_5621.N1	01-NOV-2004 02:34:36	Straylight	175.00	1	9Alp CMa	-1.4400	11000.	350	13971	No
41	GOM_NL__2PRFIN20041101_023942_000000462031_00390_13971_5622.N1	01-NOV-2004 02:39:42	Straylight	45.500	52	16Bet Cet	2.0370	4500.0	91	13971	No
42	GOM_NL__2PRFIN20041101_024605_000000602031_00390_13971_5623.N1	01-NOV-2004 02:46:05	Twilight_stray	60.000	94	92Alp Cet	2.5260	3100.0	120	13971	No

338	GOM_NL__2PRFIN20041101_225313_000000592031_00402_13983_5649.N1	01-NOV-2004 22:53:13	Twilight_stray	58.500	94	92Alp Cet	2.5260	3100.0	117	13983	No
339	GOM_NL__2PRFIN20041101_225627_000000382031_00402_13983_5650.N1	01-NOV-2004 22:56:27	Bright	37.500	140	88Gam Peg	2.8340	26000.	75	13983	No
340	GOM_NL__2PRFIN20041101_225834_000000432031_00402_13983_5651.N1	01-NOV-2004 22:58:34	Bright	42.500	50	13Alp Ari	2.0070	4250.0	85	13983	No
341	GOM_NL__2PRFIN20041101_230017_000000392031_00402_13983_5652.N1	01-NOV-2004 23:00:17	Bright	39.000	58	21Alp And	2.0730	11000.	78	13983	No
342	GOM_NL__2PRFIN20041101_230141_000000402031_00402_13983_5653.N1	01-NOV-2004 23:01:41	Bright	40.000	53	43Bet And	2.0480	3300.0	80	13983	No
343	GOM_NL__2PRFIN20041101_230403_000000392031_00402_13983_5654.N1	01-NOV-2004 23:04:03	Bright	39.000	73	57Gam1And	2.2600	13100.	78	13983	No
344	GOM_NL__2PRFIN20041101_230736_000000402031_00402_13983_5655.N1	01-NOV-2004 23:07:36	Bright	40.000	68	18Alp Cas	2.2250	4500.0	80	13983	No
345	GOM_NL__2PRFIN20041101_230846_000000372031_00402_13983_5656.N1	01-NOV-2004 23:08:46	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	13983	No
346	GOM_NL__2PRFIN20041101_231121_000000852031_00402_13983_5657.N1	01-NOV-2004 23:11:21	Bright	84.500	114	3lot Aur	2.6930	4600.0	169	13983	No
347	GOM_NL__2PRFIN20041101_231420_000000652031_00402_13983_5658.N1	01-NOV-2004 23:14:20	Bright	65.000	6	13Alp Aur	0.080000	3400.0	130	13983	No
348	GOM_NL__2PRFIN20041101_231651_000000372031_00402_13983_5659.N1	01-NOV-2004 23:16:51	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	13983	No
349	GOM_NL__2PRFIN20041101_232043_000000352031_00402_13983_5660.N1	01-NOV-2004 23:20:43	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	13983	No
350	GOM_NL__2PRFIN20041101_232458_000000382031_00402_13983_5661.N1	01-NOV-2004 23:24:58	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	13983	No
351	GOM_NL__2PRFIN20041101_232634_000000562031_00402_13983_5662.N1	01-NOV-2004 23:26:34	Bright	56.000	82	48Bet UMa	2.3650	10600.	112	13983	No
352	GOM_NL__2PRFIN20041101_233017_000000412031_00402_13983_5663.N1	01-NOV-2004 23:30:17	Bright	41.000	174	52Psi UMa	3.0040	4400.0	82	13983	No
353	GOM_NL__2PRFIN20041101_233804_000002552031_00402_13983_5664.N1	01-NOV-2004 23:38:04	Twilight_stray	254.50	24	66Alp Gem	1.5800	10200.	509	13983	No
354	GOM_NL__2PRFIN20041101_235154_000000732031_00402_13983_5665.N1	01-NOV-2004 23:51:54	Dark	73.000	48	30Alp Hya	1.9770	4100.0	146	13983	No
355	GOM_NL__2PRFIN20041101_235810_000000442031_00402_13983_5666.N1	01-NOV-2004 23:58:10	Dark	44.000	26	Gam Cru	1.6240	2900.0	88	13983	No

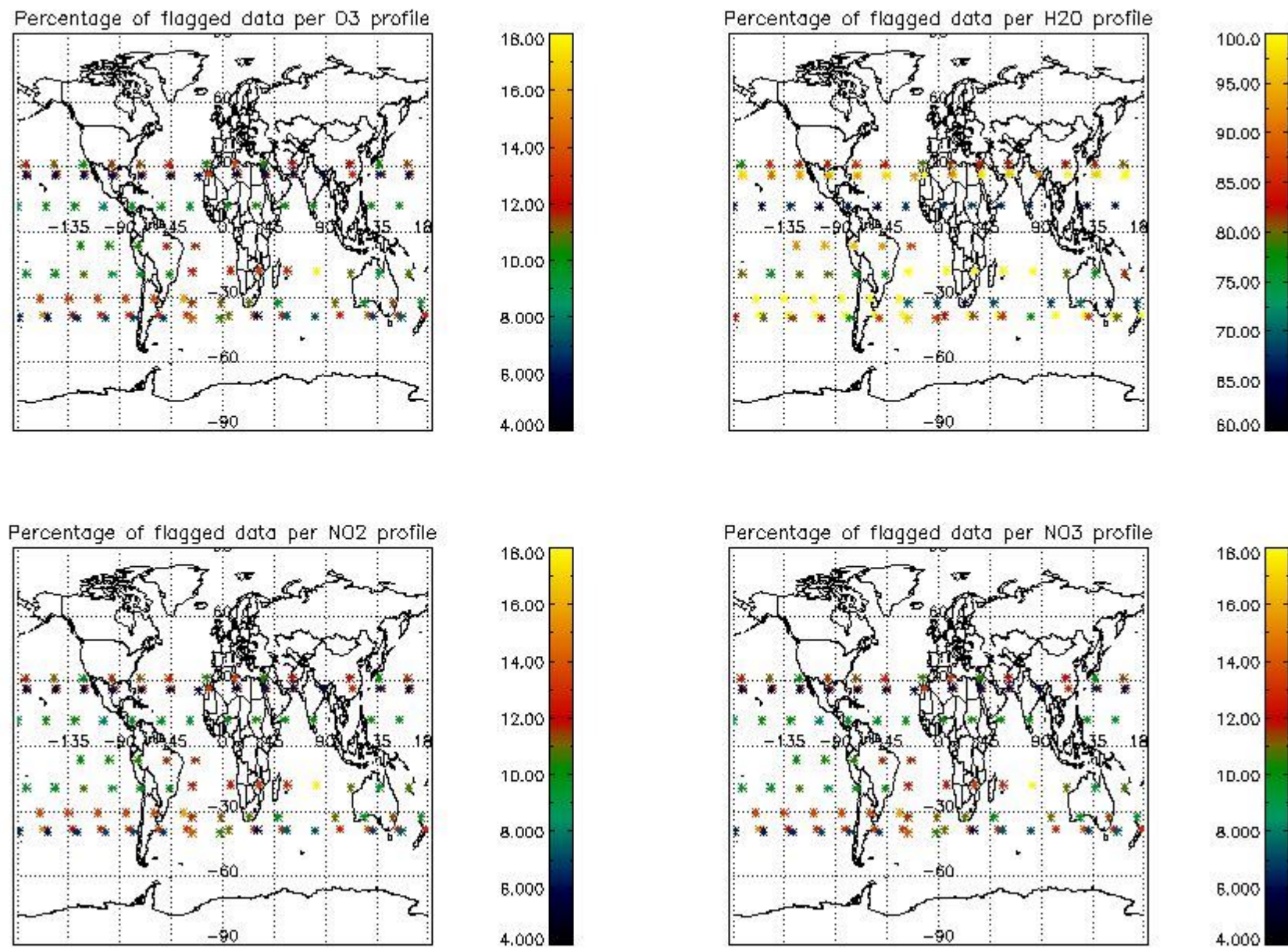
3. Quality information per product

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)

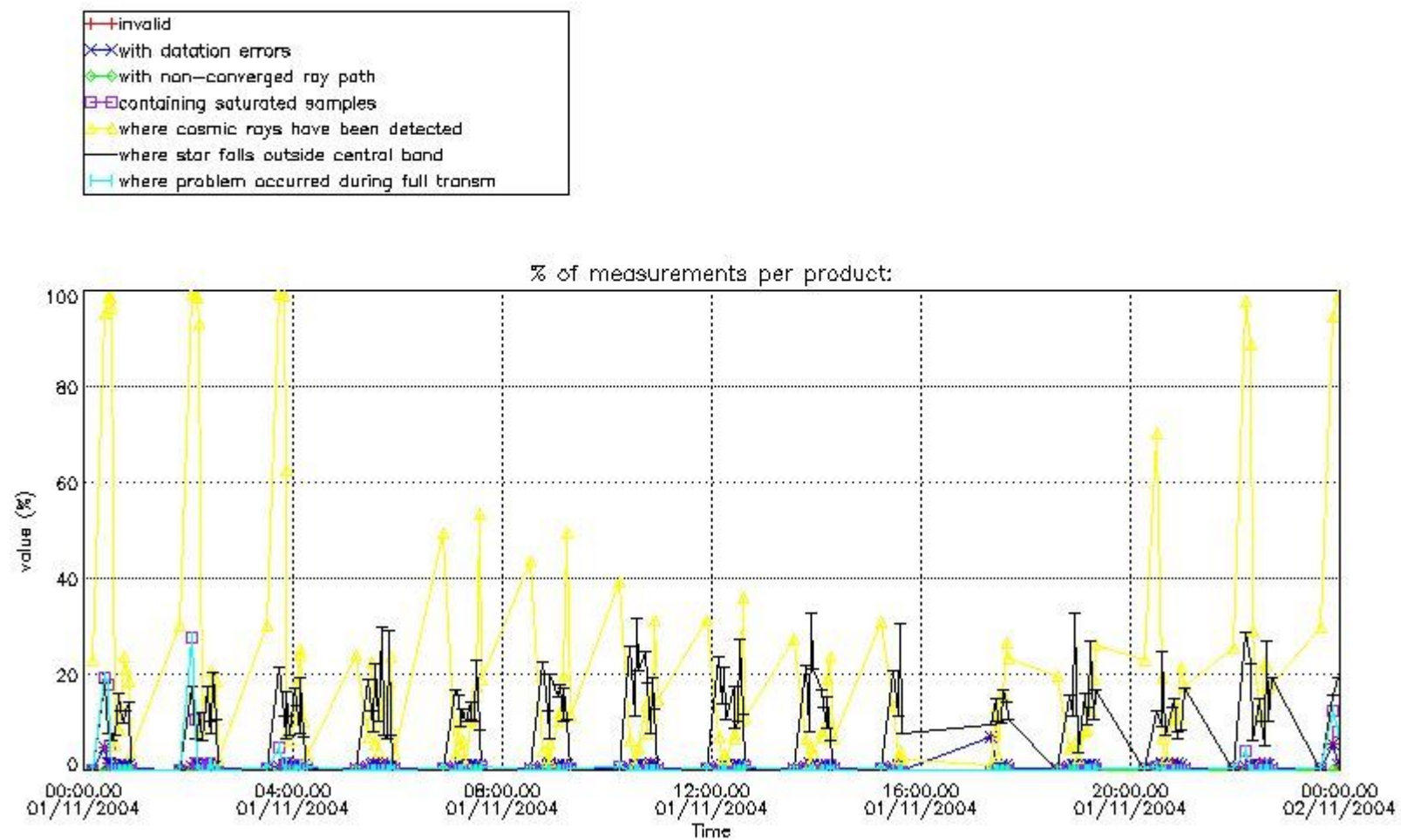


4. Level 1 quality information per product

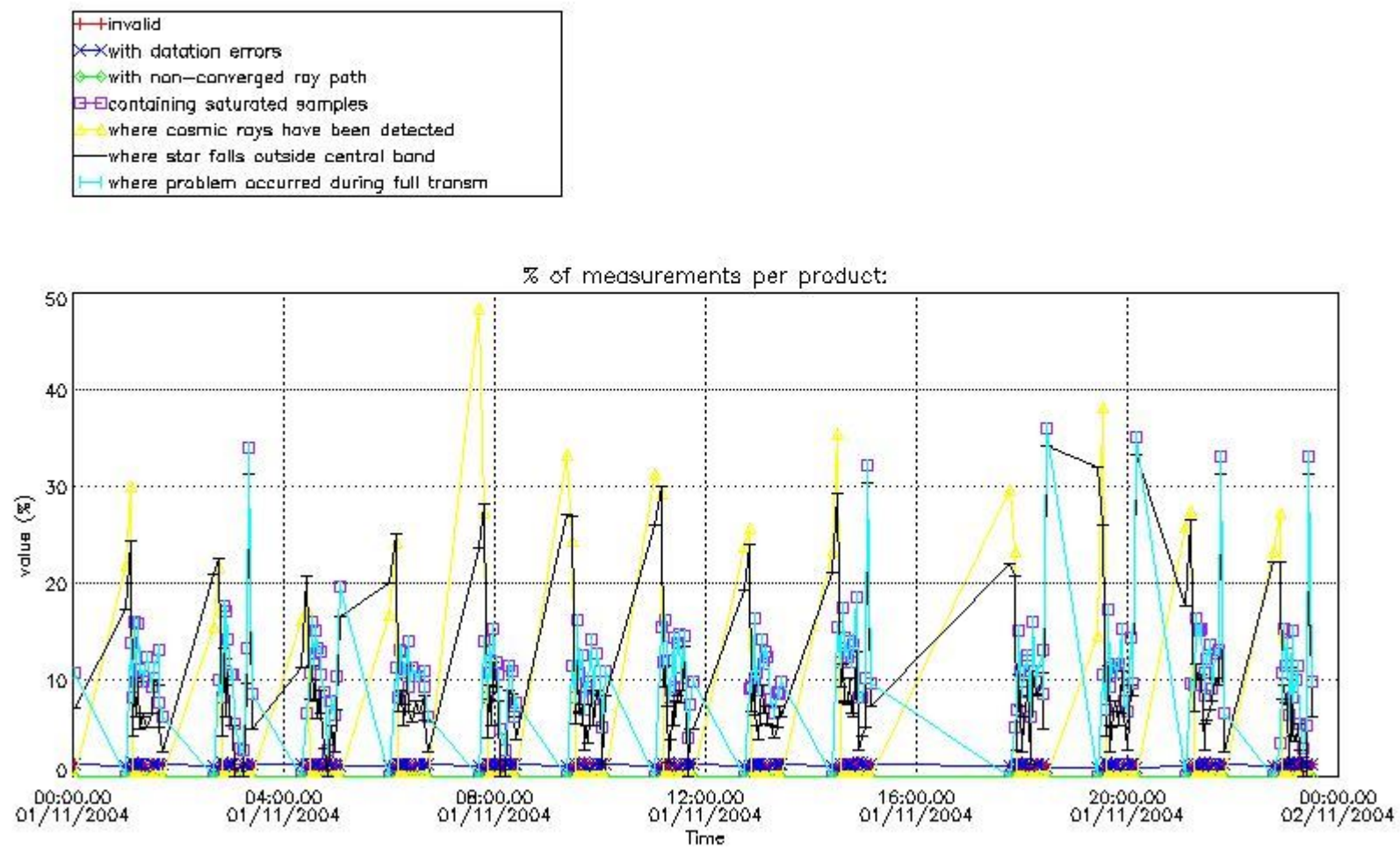
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



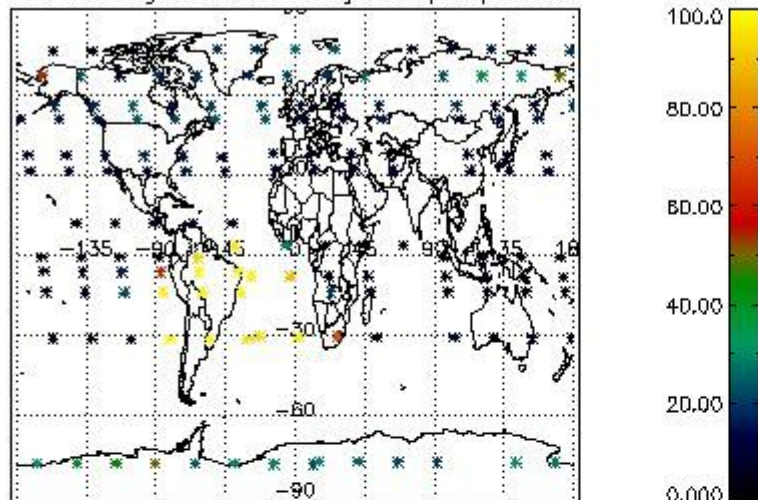
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



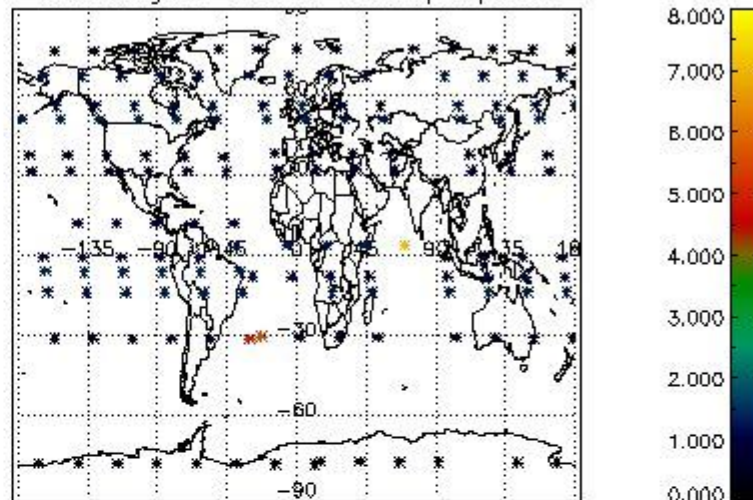
4.2 Plot quality information per product coming from level 1b processing (world map)

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

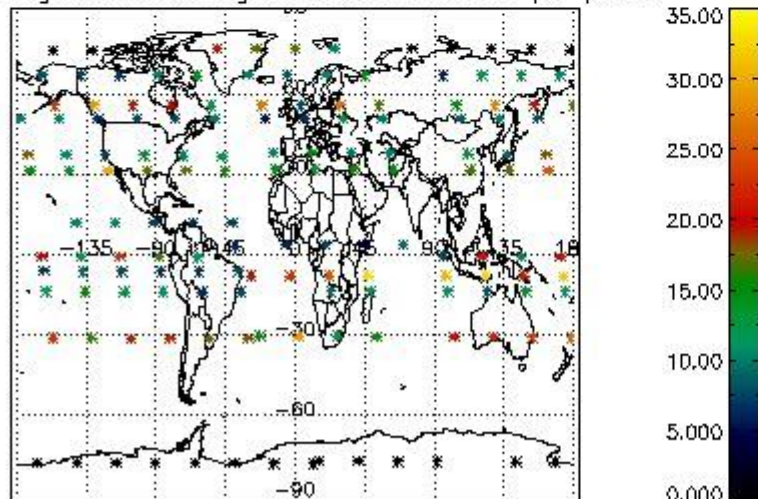
Percentage of cosmic ray hits per profile



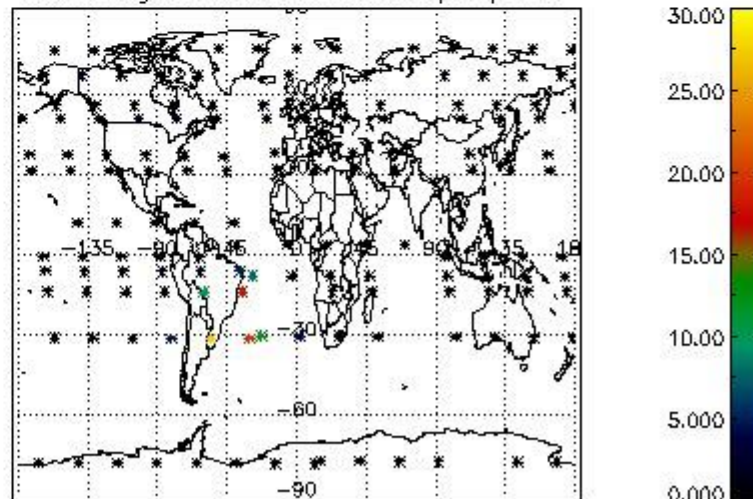
Percentage of datation errors per profile



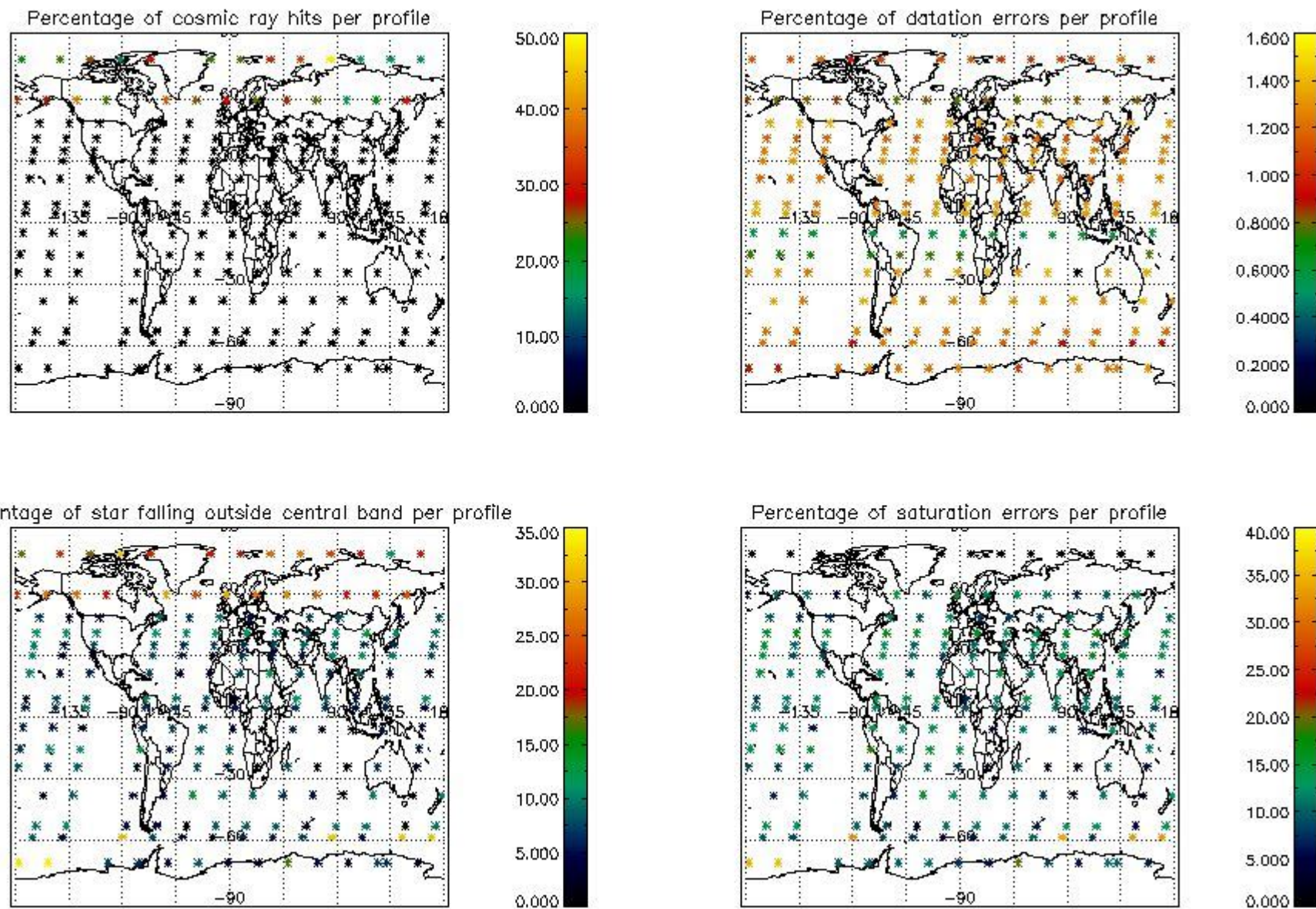
Percentage of star falling outside central band per profile



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

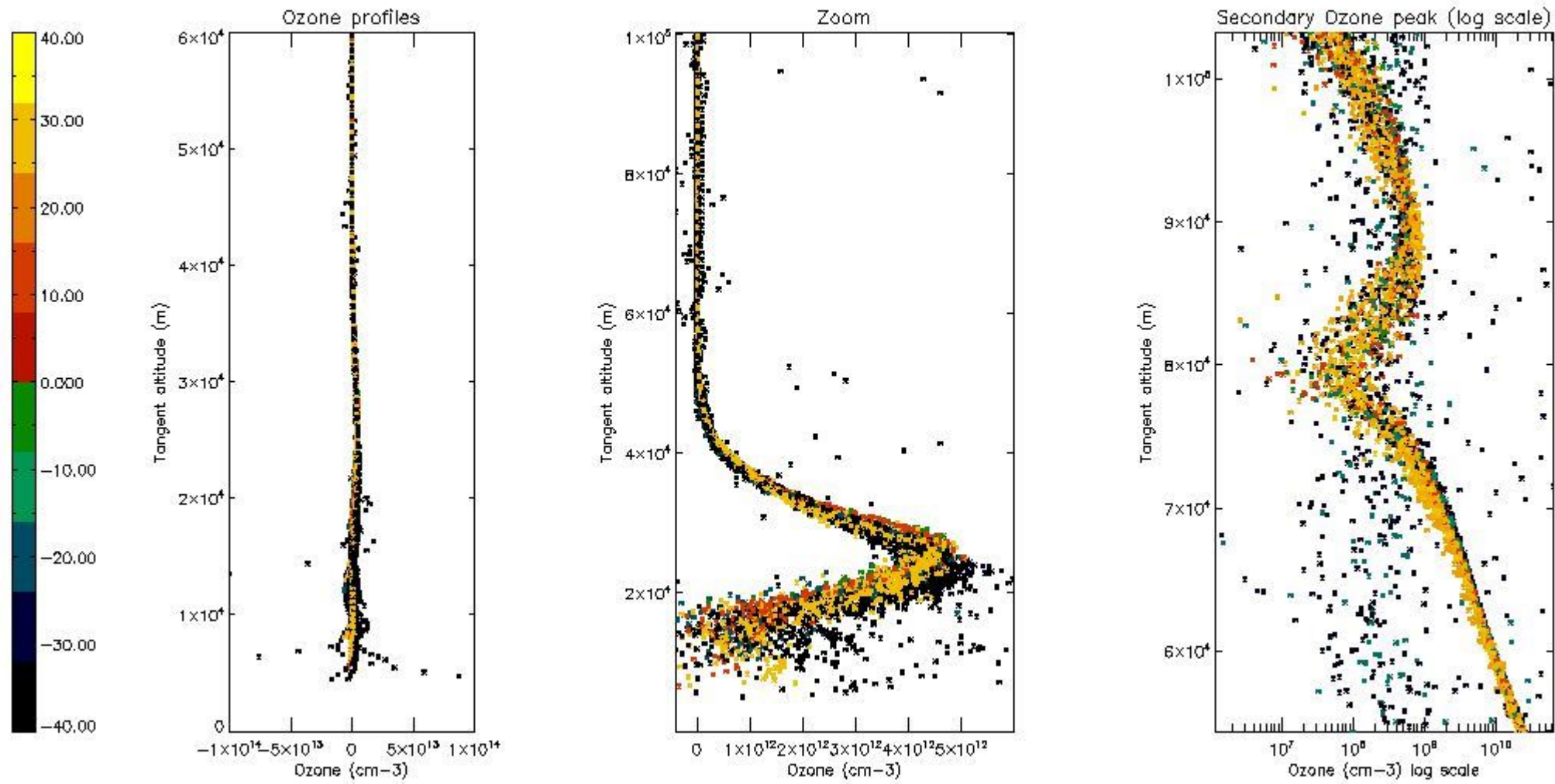
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	28
STD < 20	16

STD < 10	13
STD < 5	10

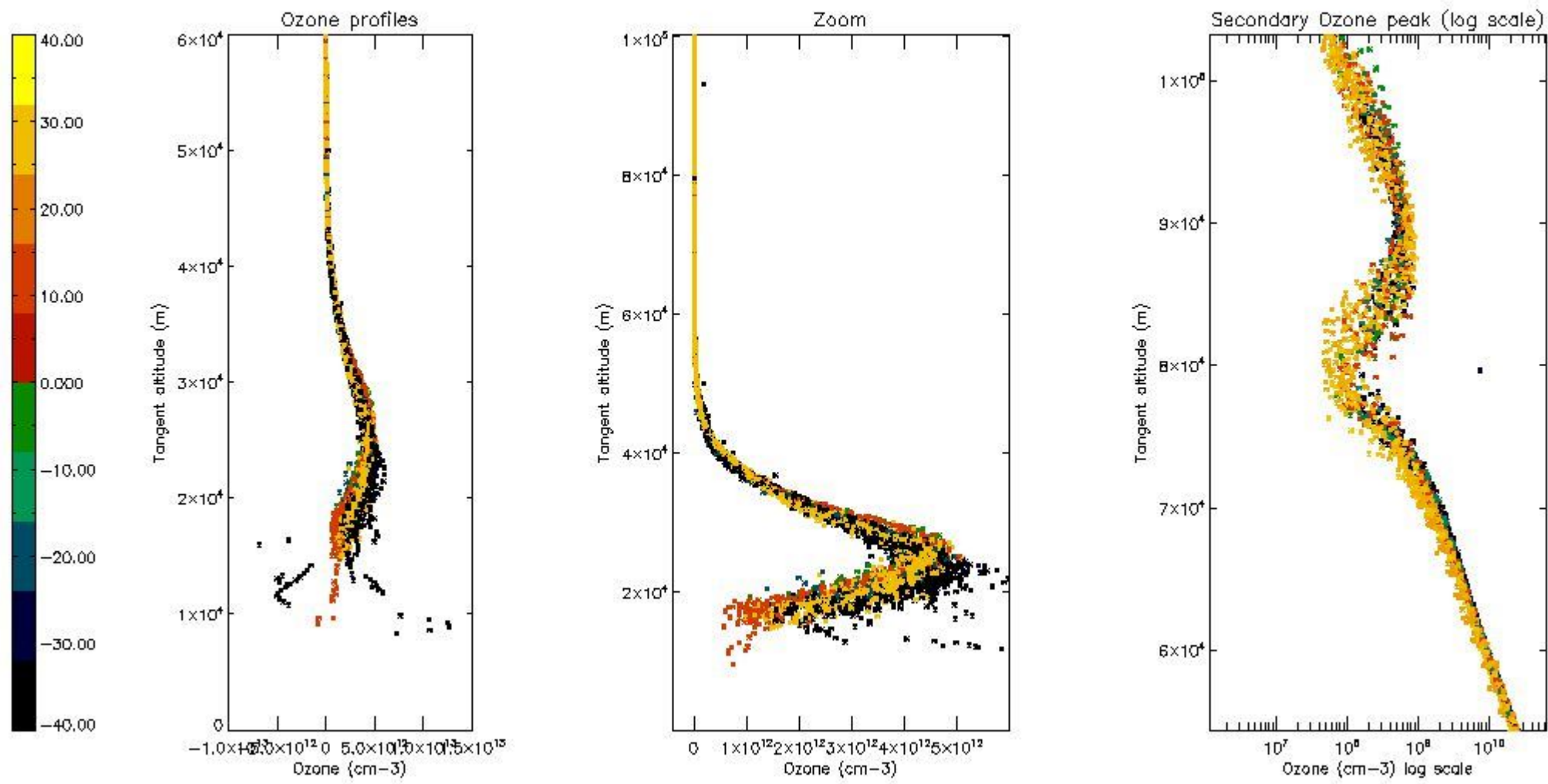
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



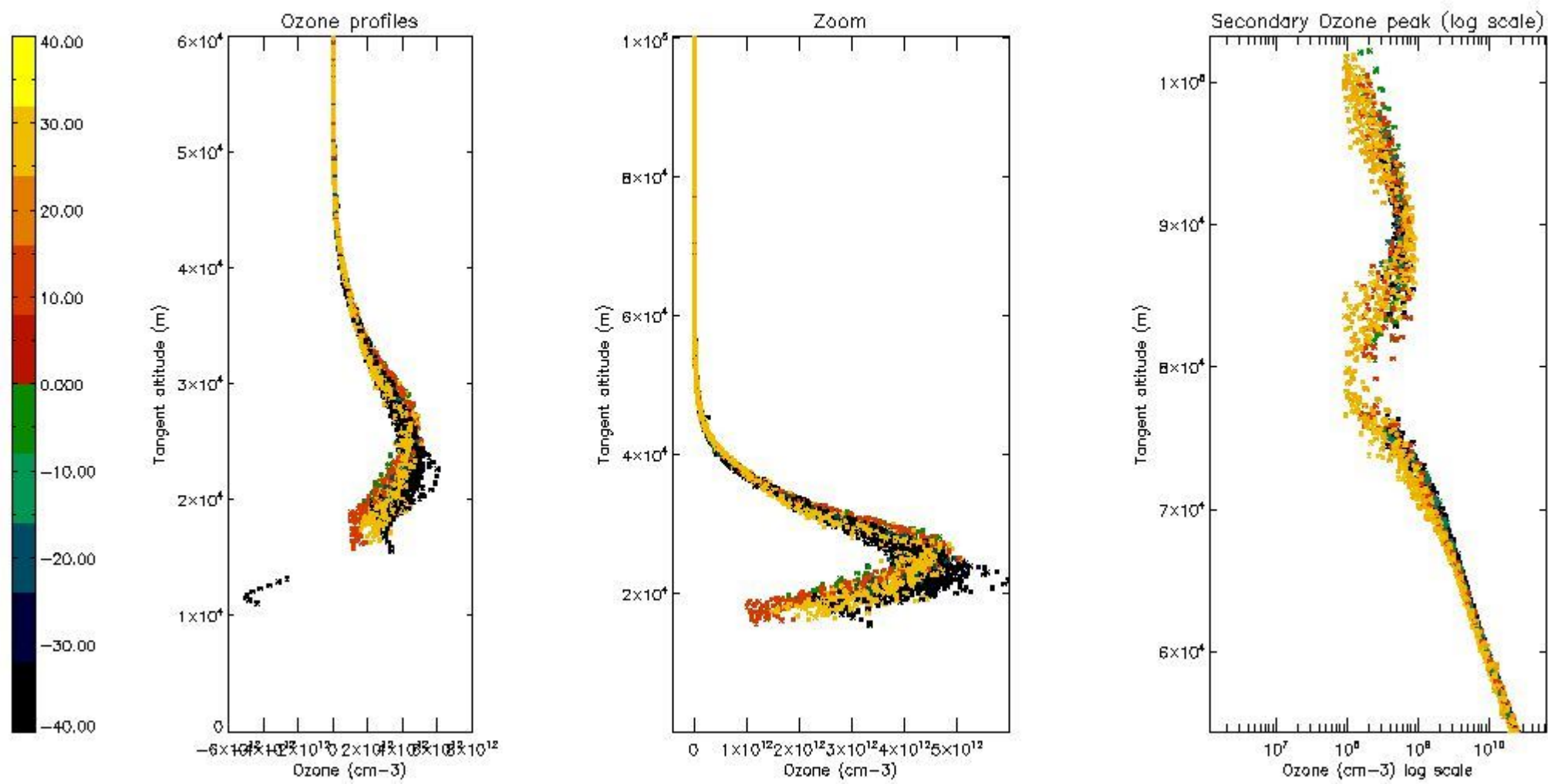
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



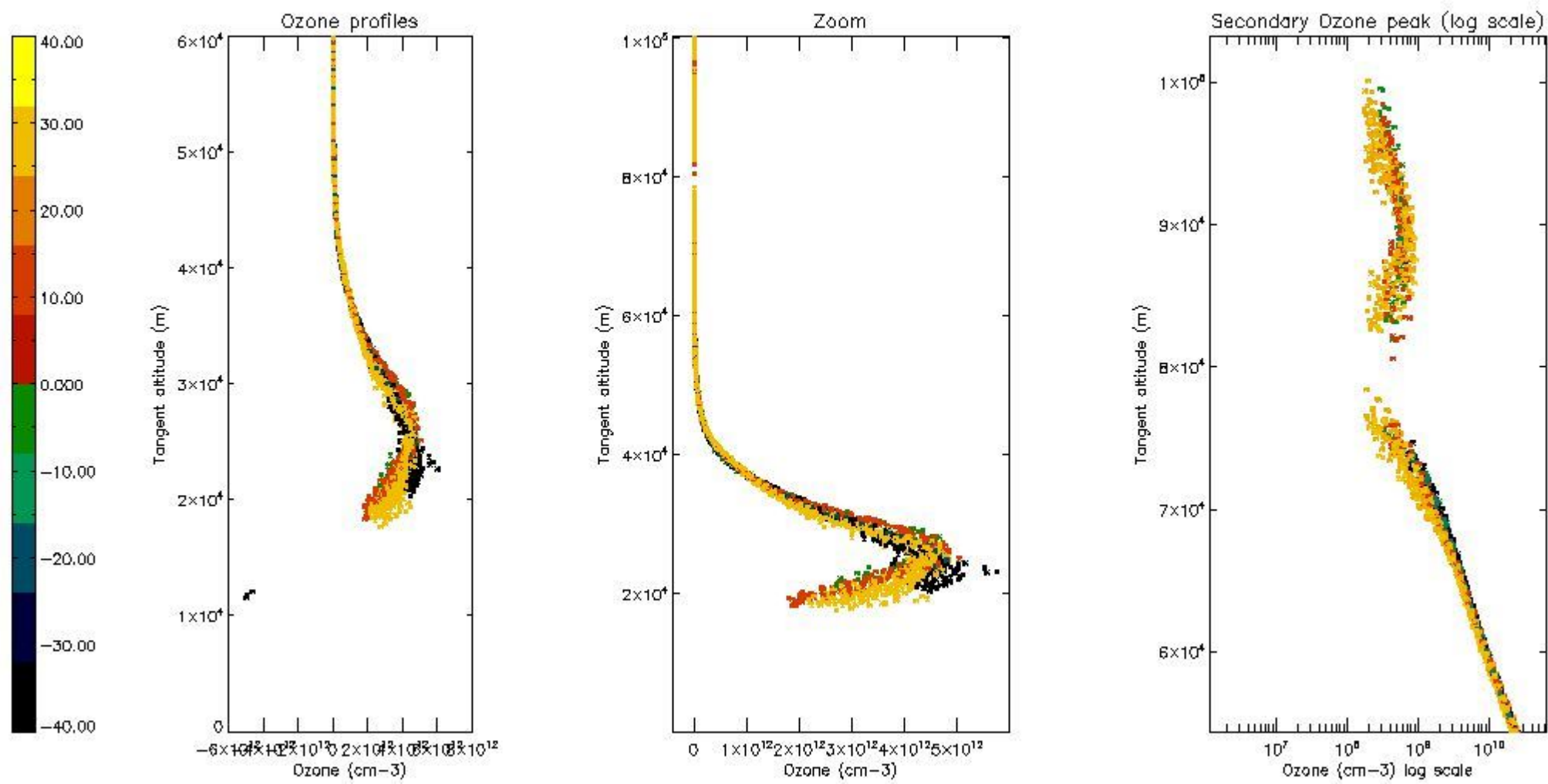
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



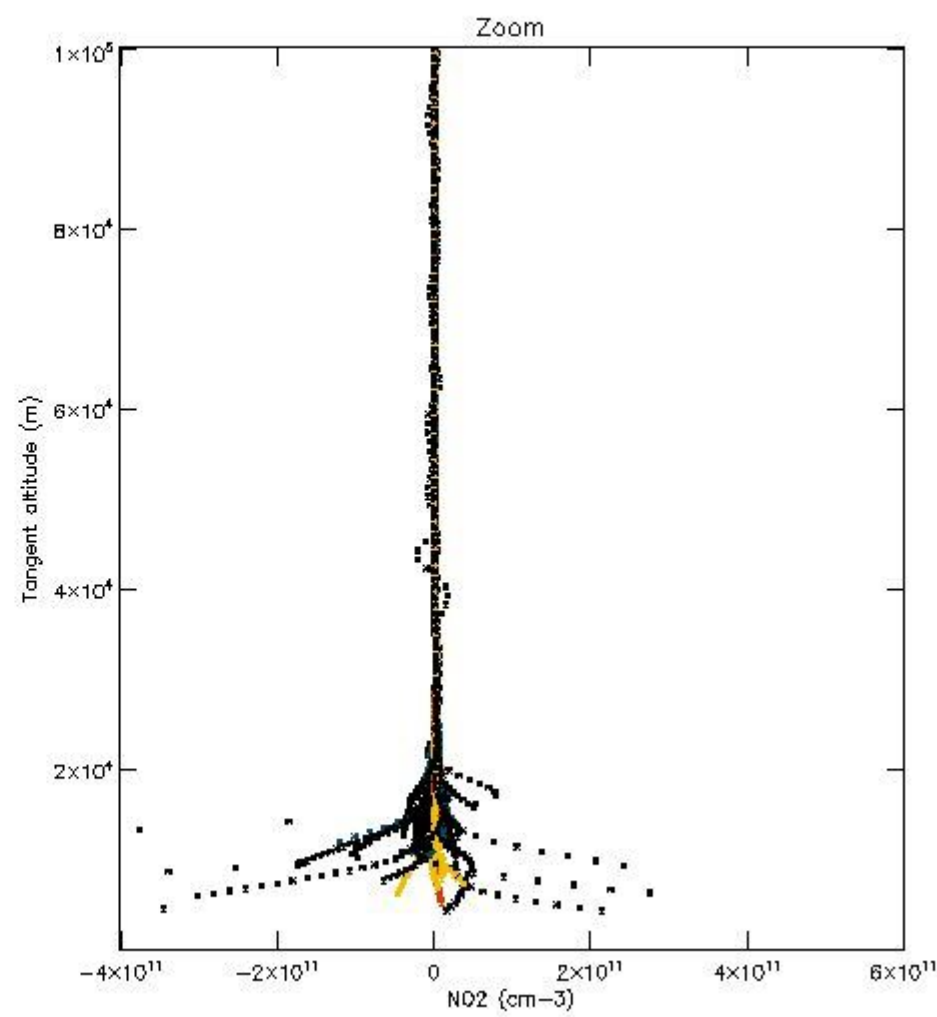
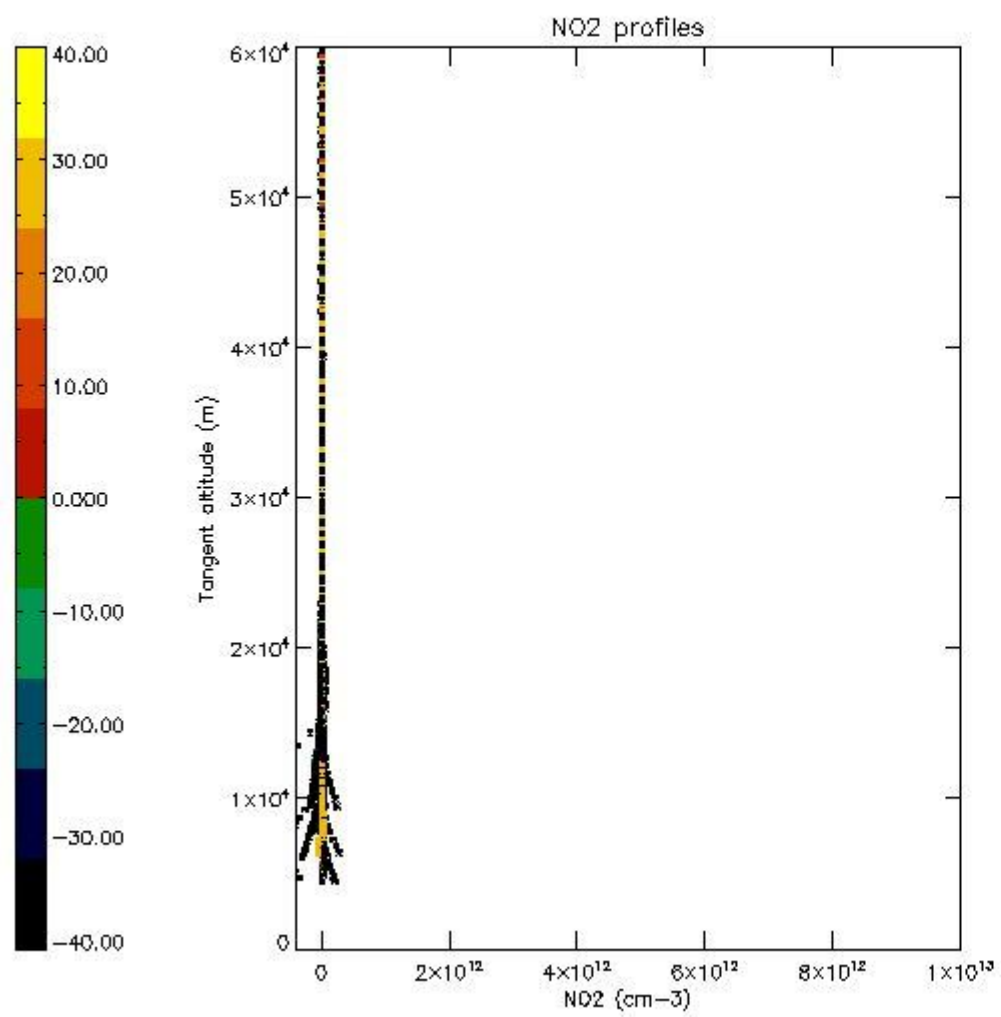
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



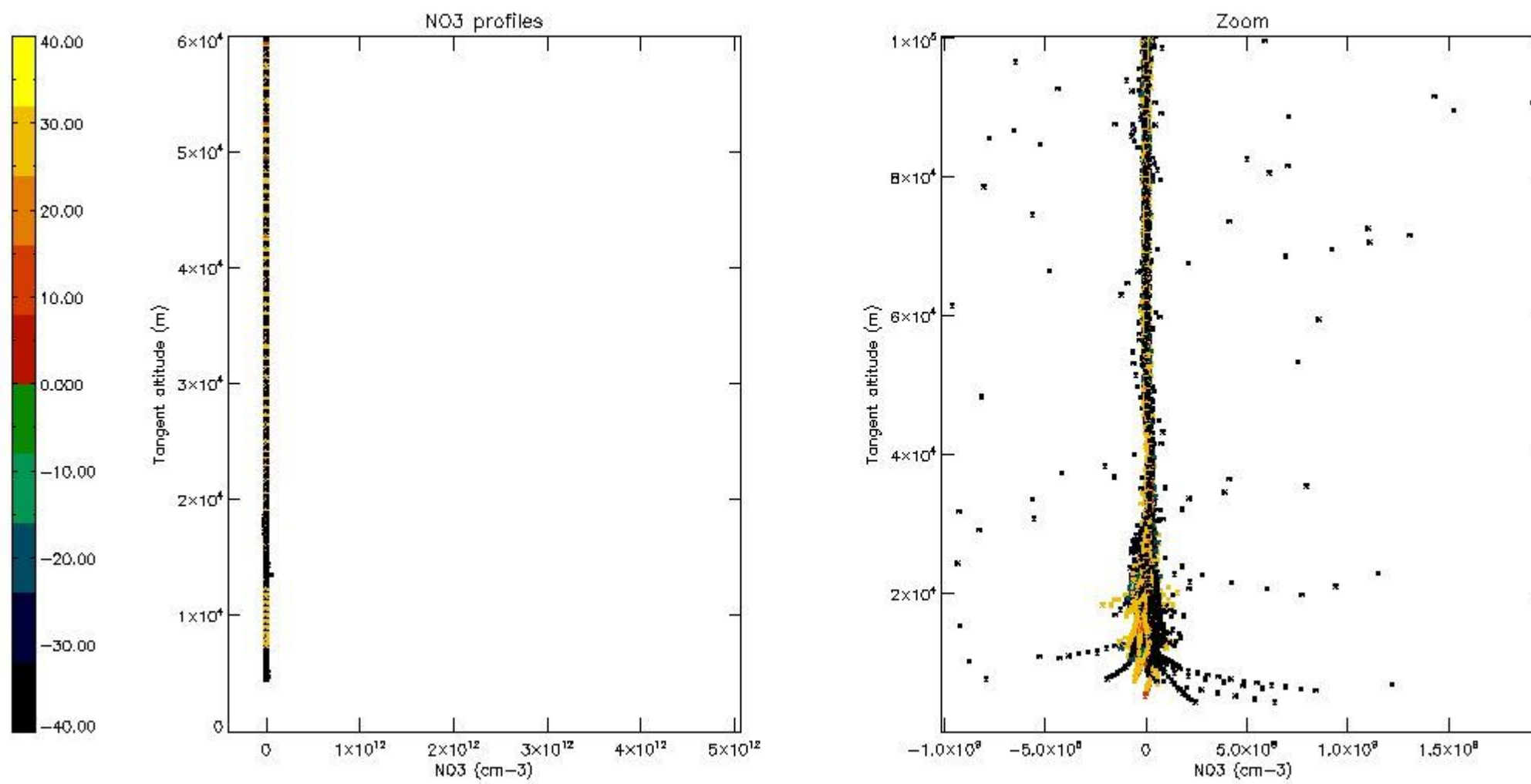
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



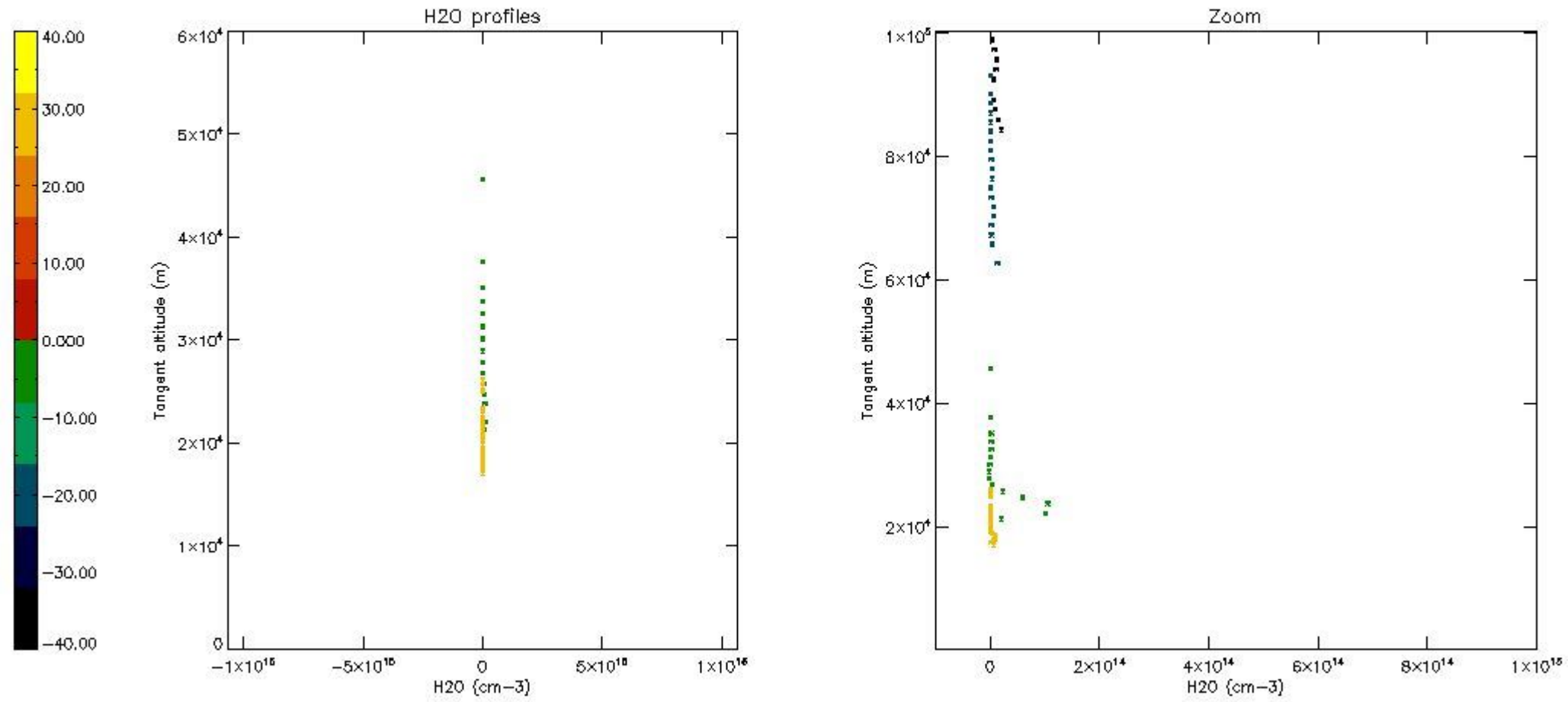
5.7 Plot NO3 profiles for all STD (dark without errors)

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	01-NOV-2004 00:01:54
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	01-NOV-2004 00:01:54
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	01-NOV-2004 00:01:54

GOMOS Level 2 Daily Report

SUMMARY

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[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](#)

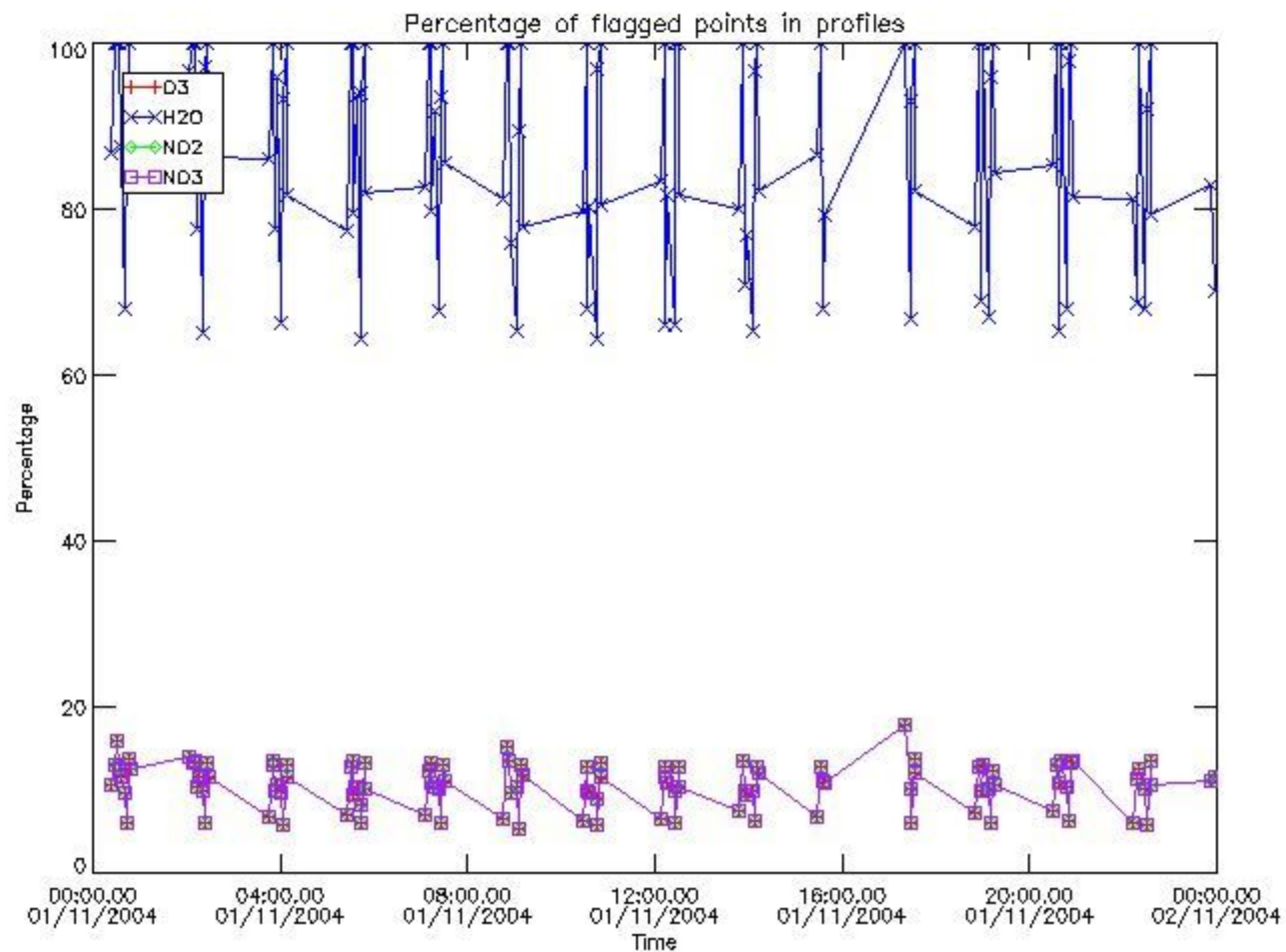
[6. Auxiliary Data Files used for the production reported in section 2](#)

338	GOM_NL__2PRFIN20041101_225313_000000592031_00402_13983_5649.N1	01-NOV-2004 22:53:13	Twilight_stray	58.500	94	92Alp Cet	2.5260	3100.0	117	13983	No
339	GOM_NL__2PRFIN20041101_225627_000000382031_00402_13983_5650.N1	01-NOV-2004 22:56:27	Bright	37.500	140	88Gam Peg	2.8340	26000.	75	13983	No
340	GOM_NL__2PRFIN20041101_225834_000000432031_00402_13983_5651.N1	01-NOV-2004 22:58:34	Bright	42.500	50	13Alp Ari	2.0070	4250.0	85	13983	No
341	GOM_NL__2PRFIN20041101_230017_000000392031_00402_13983_5652.N1	01-NOV-2004 23:00:17	Bright	39.000	58	21Alp And	2.0730	11000.	78	13983	No
342	GOM_NL__2PRFIN20041101_230141_000000402031_00402_13983_5653.N1	01-NOV-2004 23:01:41	Bright	40.000	53	43Bet And	2.0480	3300.0	80	13983	No
343	GOM_NL__2PRFIN20041101_230403_000000392031_00402_13983_5654.N1	01-NOV-2004 23:04:03	Bright	39.000	73	57Gam1And	2.2600	13100.	78	13983	No
344	GOM_NL__2PRFIN20041101_230736_000000402031_00402_13983_5655.N1	01-NOV-2004 23:07:36	Bright	40.000	68	18Alp Cas	2.2250	4500.0	80	13983	No
345	GOM_NL__2PRFIN20041101_230846_000000372031_00402_13983_5656.N1	01-NOV-2004 23:08:46	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	13983	No
346	GOM_NL__2PRFIN20041101_231121_000000852031_00402_13983_5657.N1	01-NOV-2004 23:11:21	Bright	84.500	114	3lot Aur	2.6930	4600.0	169	13983	No
347	GOM_NL__2PRFIN20041101_231420_000000652031_00402_13983_5658.N1	01-NOV-2004 23:14:20	Bright	65.000	6	13Alp Aur	0.080000	3400.0	130	13983	No
348	GOM_NL__2PRFIN20041101_231651_000000372031_00402_13983_5659.N1	01-NOV-2004 23:16:51	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	13983	No
349	GOM_NL__2PRFIN20041101_232043_000000352031_00402_13983_5660.N1	01-NOV-2004 23:20:43	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	13983	No
350	GOM_NL__2PRFIN20041101_232458_000000382031_00402_13983_5661.N1	01-NOV-2004 23:24:58	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	13983	No
351	GOM_NL__2PRFIN20041101_232634_000000562031_00402_13983_5662.N1	01-NOV-2004 23:26:34	Bright	56.000	82	48Bet UMa	2.3650	10600.	112	13983	No
352	GOM_NL__2PRFIN20041101_233017_000000412031_00402_13983_5663.N1	01-NOV-2004 23:30:17	Bright	41.000	174	52Psi UMa	3.0040	4400.0	82	13983	No
353	GOM_NL__2PRFIN20041101_233804_000002552031_00402_13983_5664.N1	01-NOV-2004 23:38:04	Twilight_stray	254.50	24	66Alp Gem	1.5800	10200.	509	13983	No
354	GOM_NL__2PRFIN20041101_235154_000000732031_00402_13983_5665.N1	01-NOV-2004 23:51:54	Dark	73.000	48	30Alp Hya	1.9770	4100.0	146	13983	No
355	GOM_NL__2PRFIN20041101_235810_000000442031_00402_13983_5666.N1	01-NOV-2004 23:58:10	Dark	44.000	26	Gam Cru	1.6240	2900.0	88	13983	No

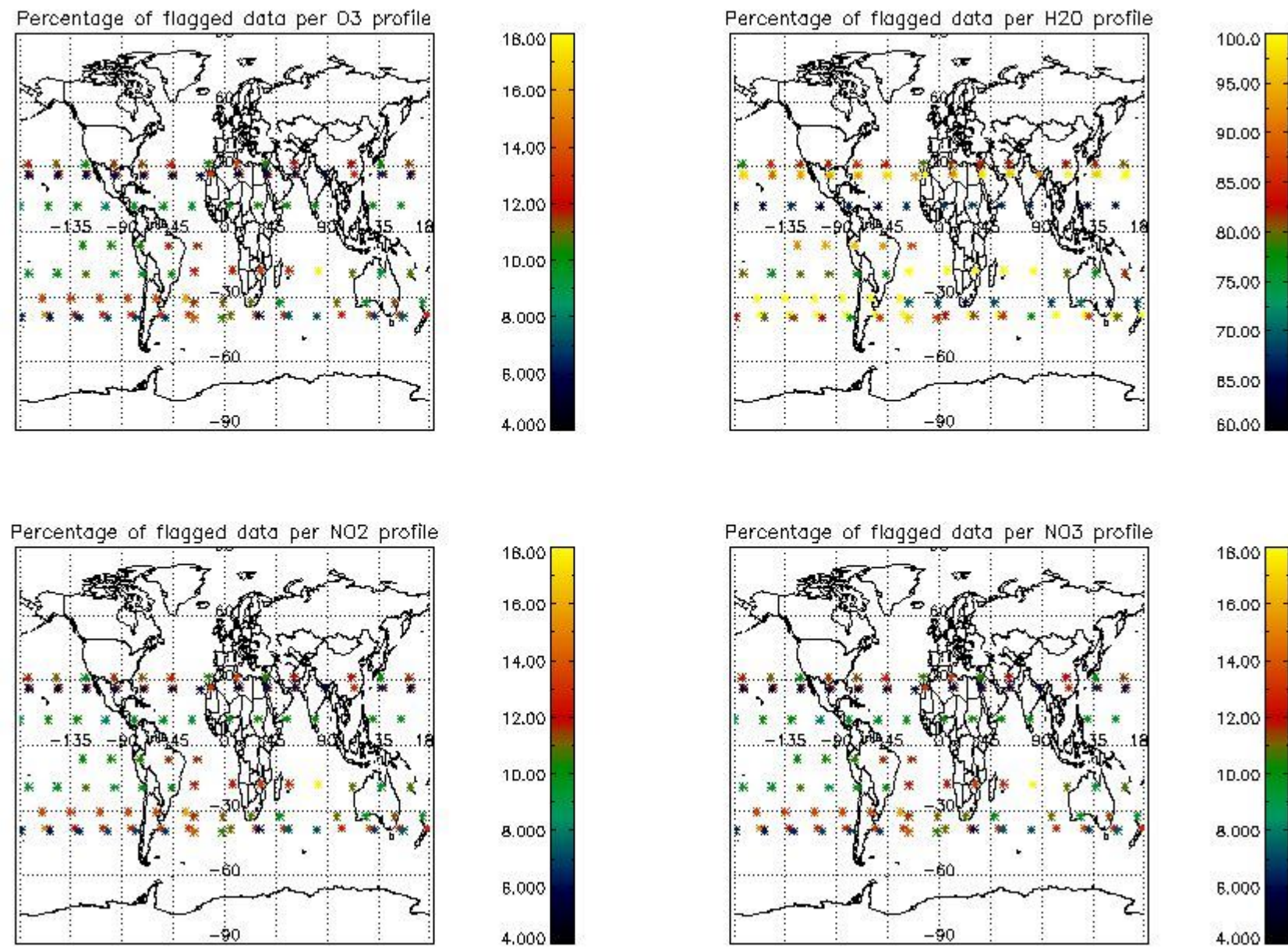
3. Quality information per product

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)

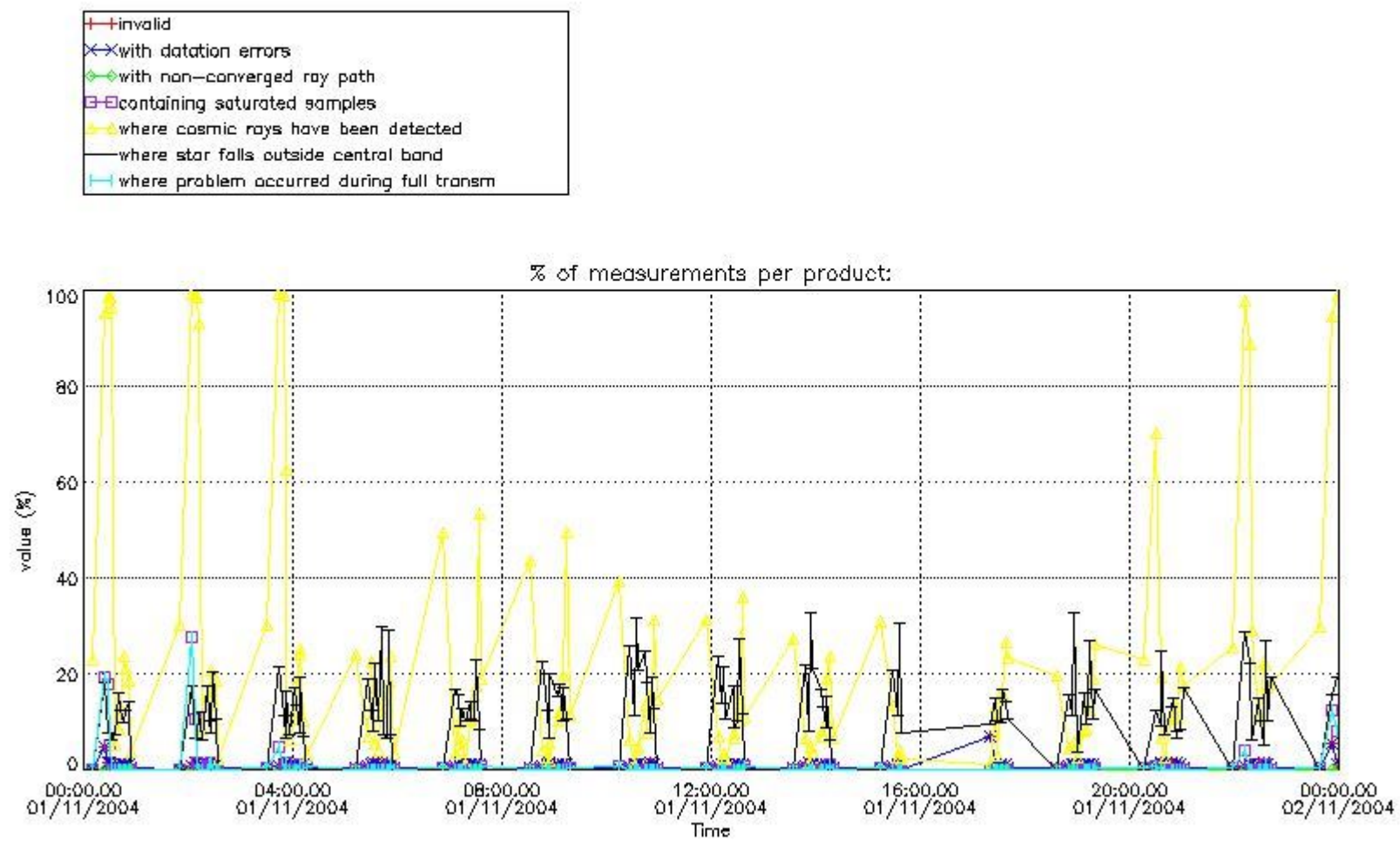


4. Level 1 quality information per product

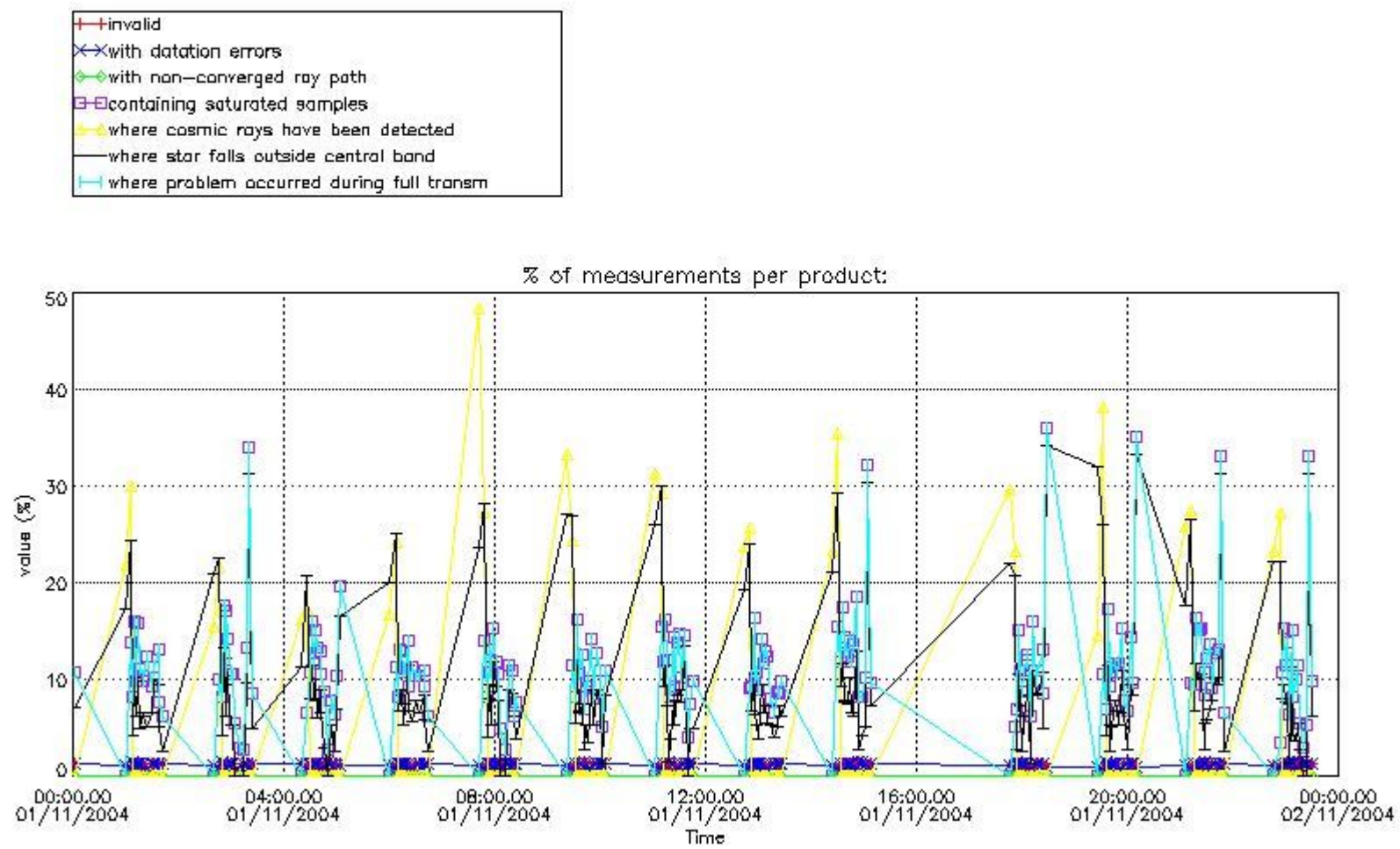
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



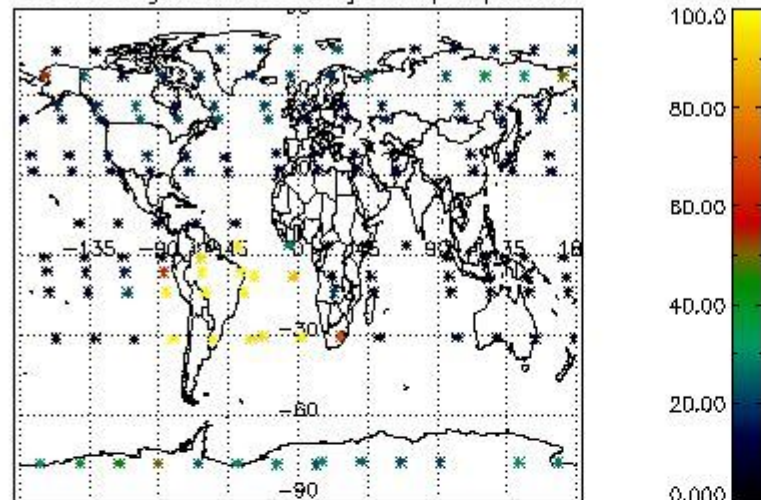
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



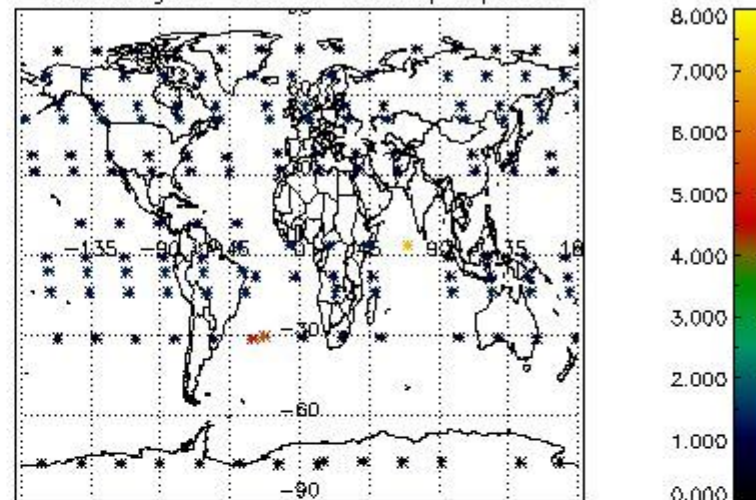
4.2 Plot quality information per product coming from level 1b processing (world map)

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

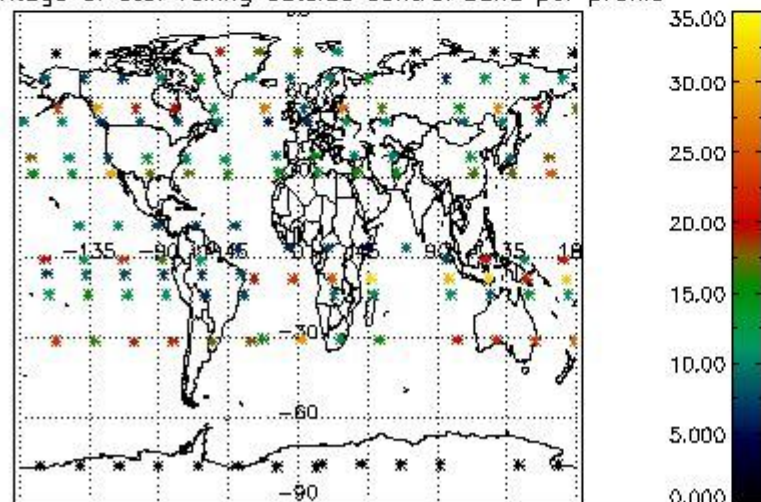
Percentage of cosmic ray hits per profile



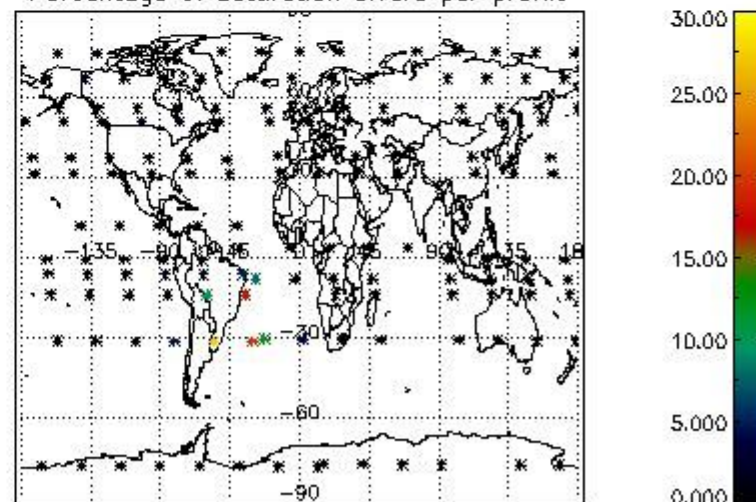
Percentage of datation errors per profile



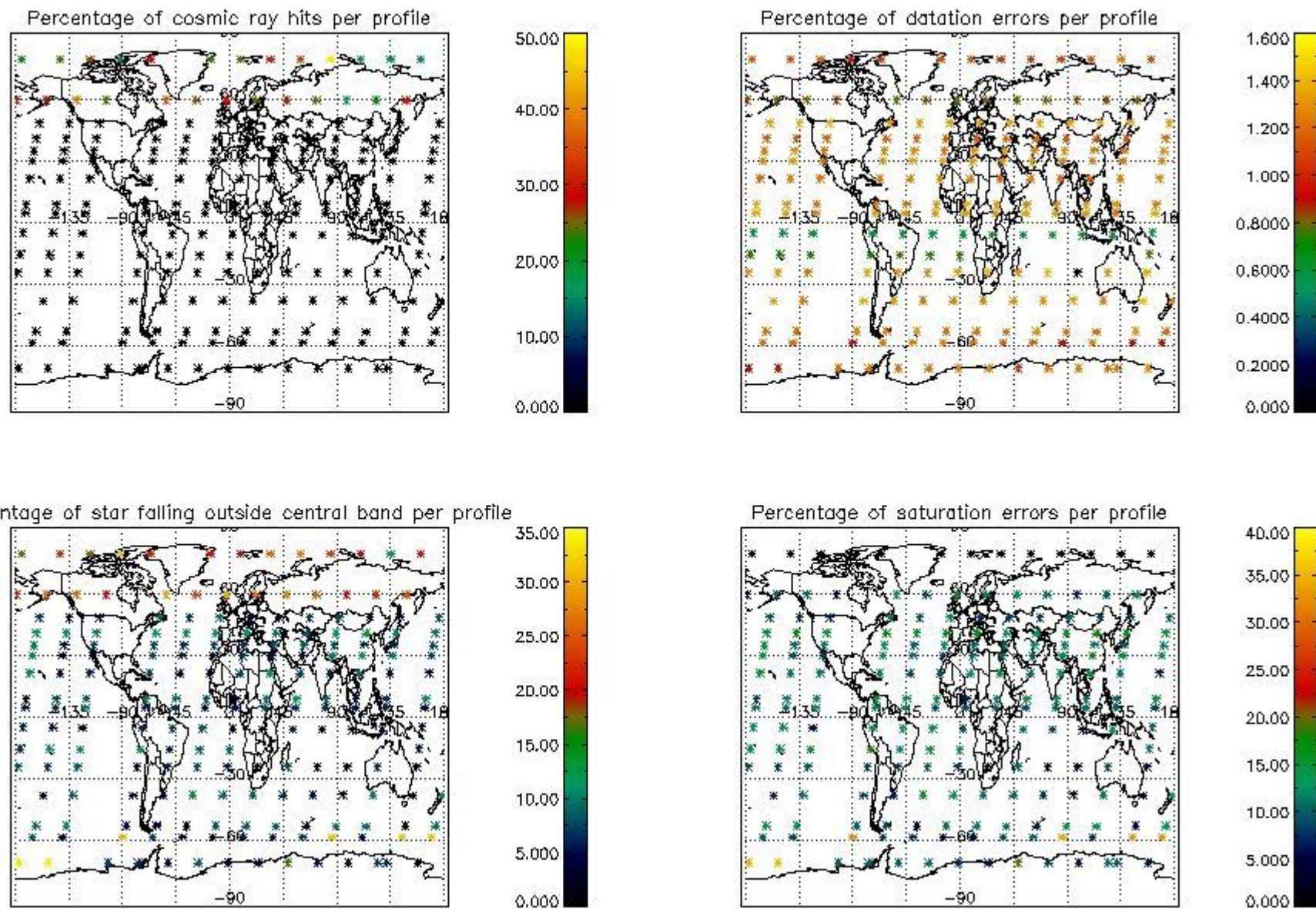
Percentage of star falling outside central band per profile



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

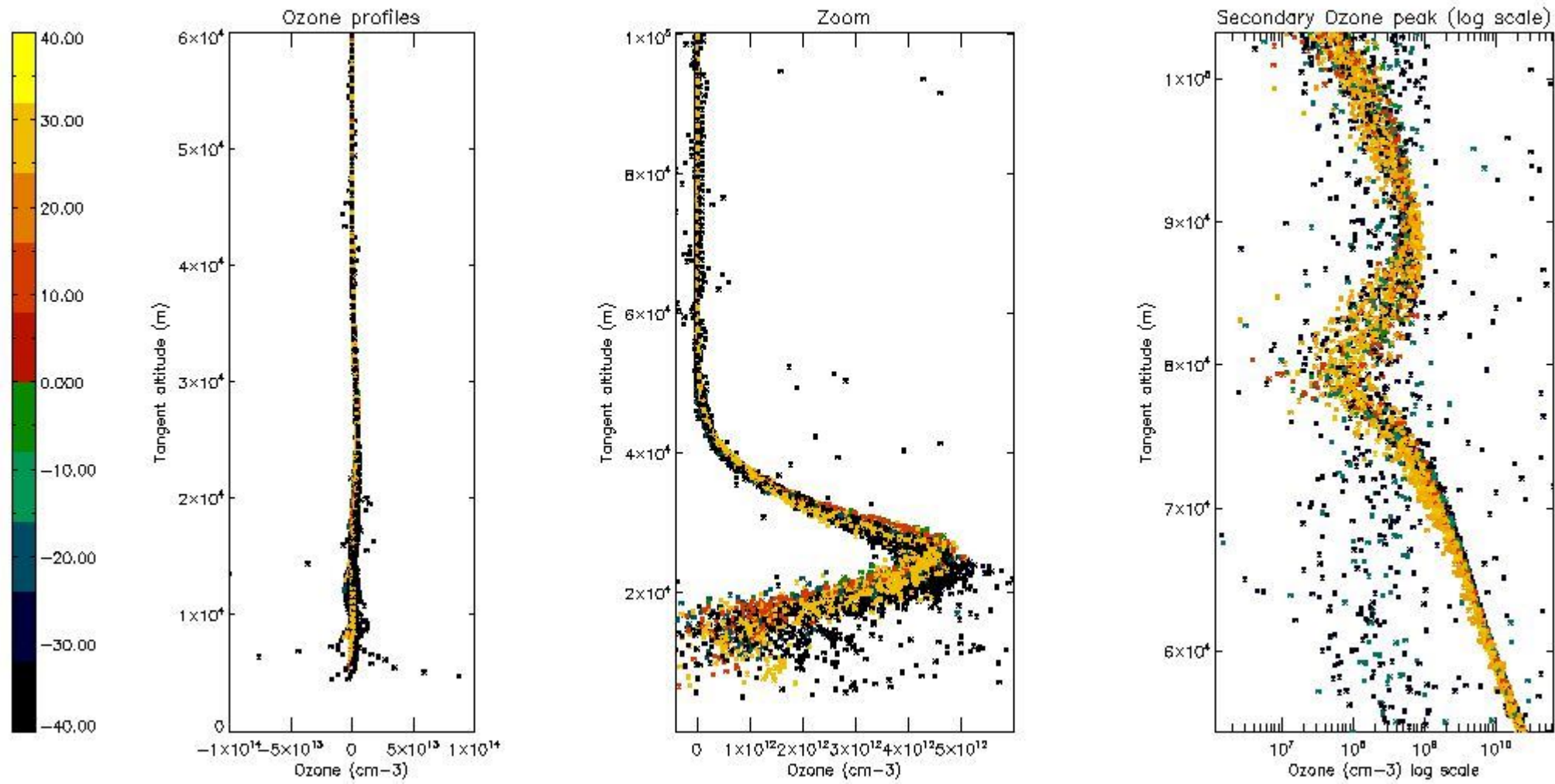
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	28
STD < 20	16

STD < 10	13
STD < 5	10

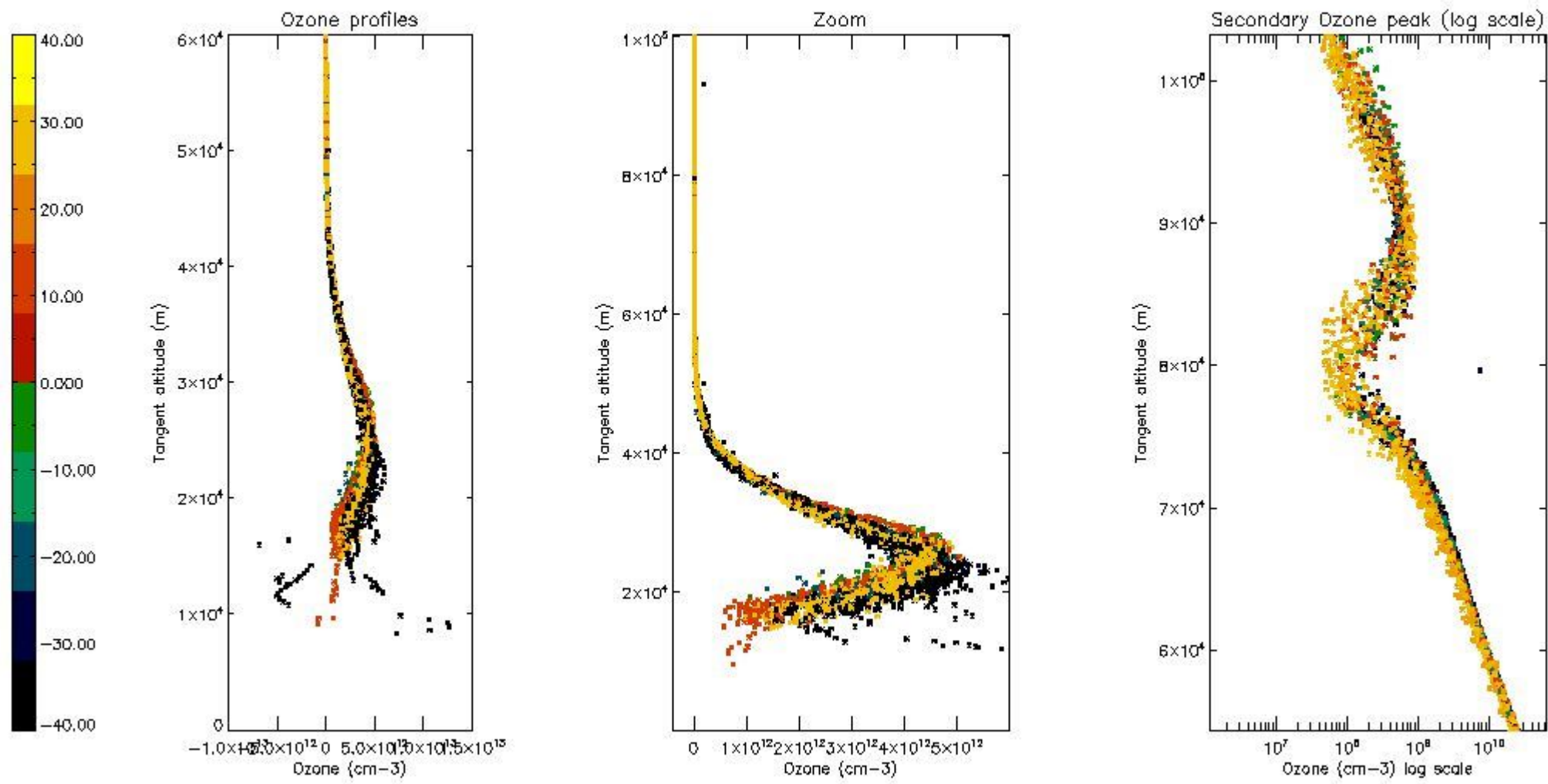
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



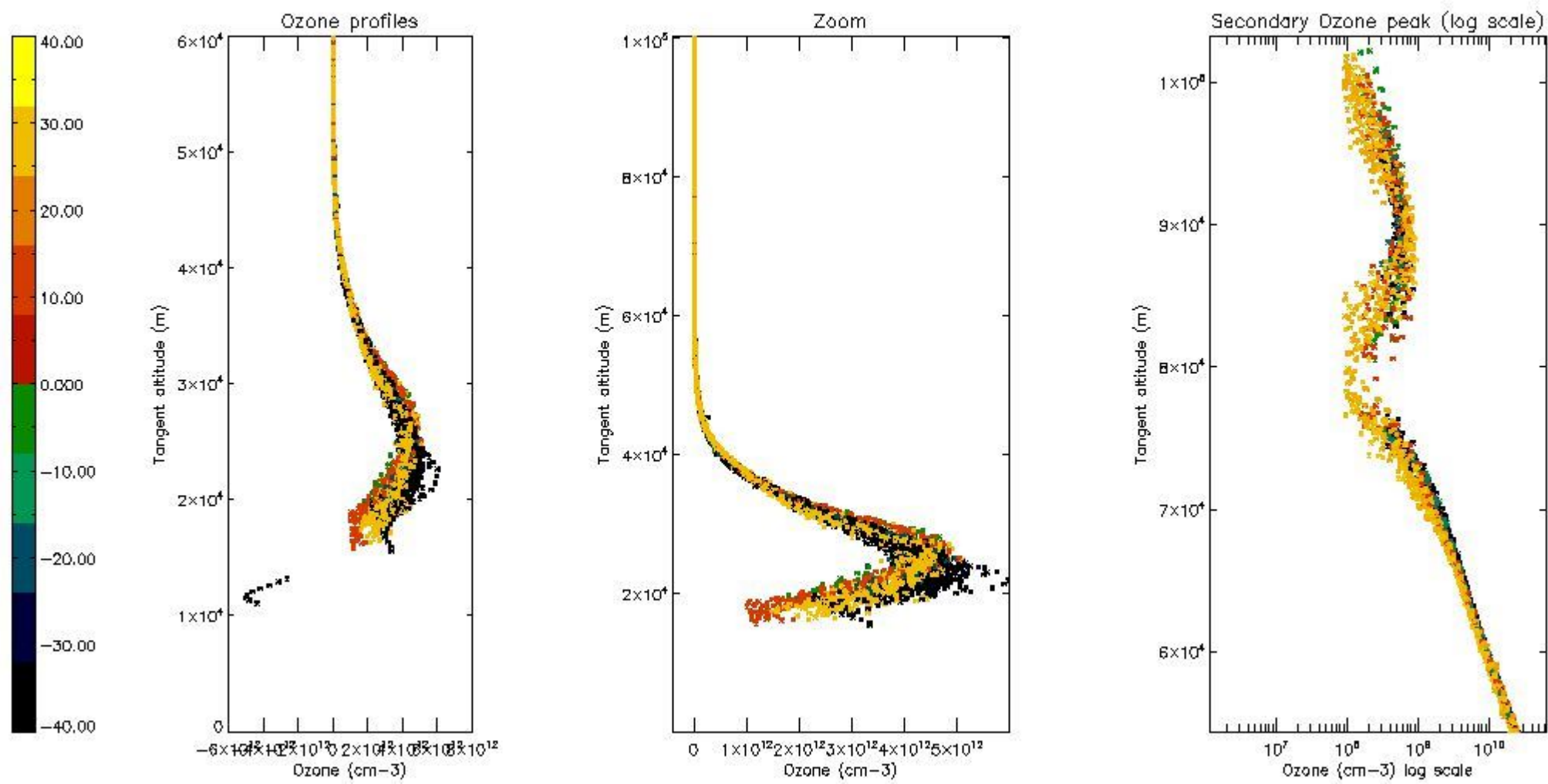
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



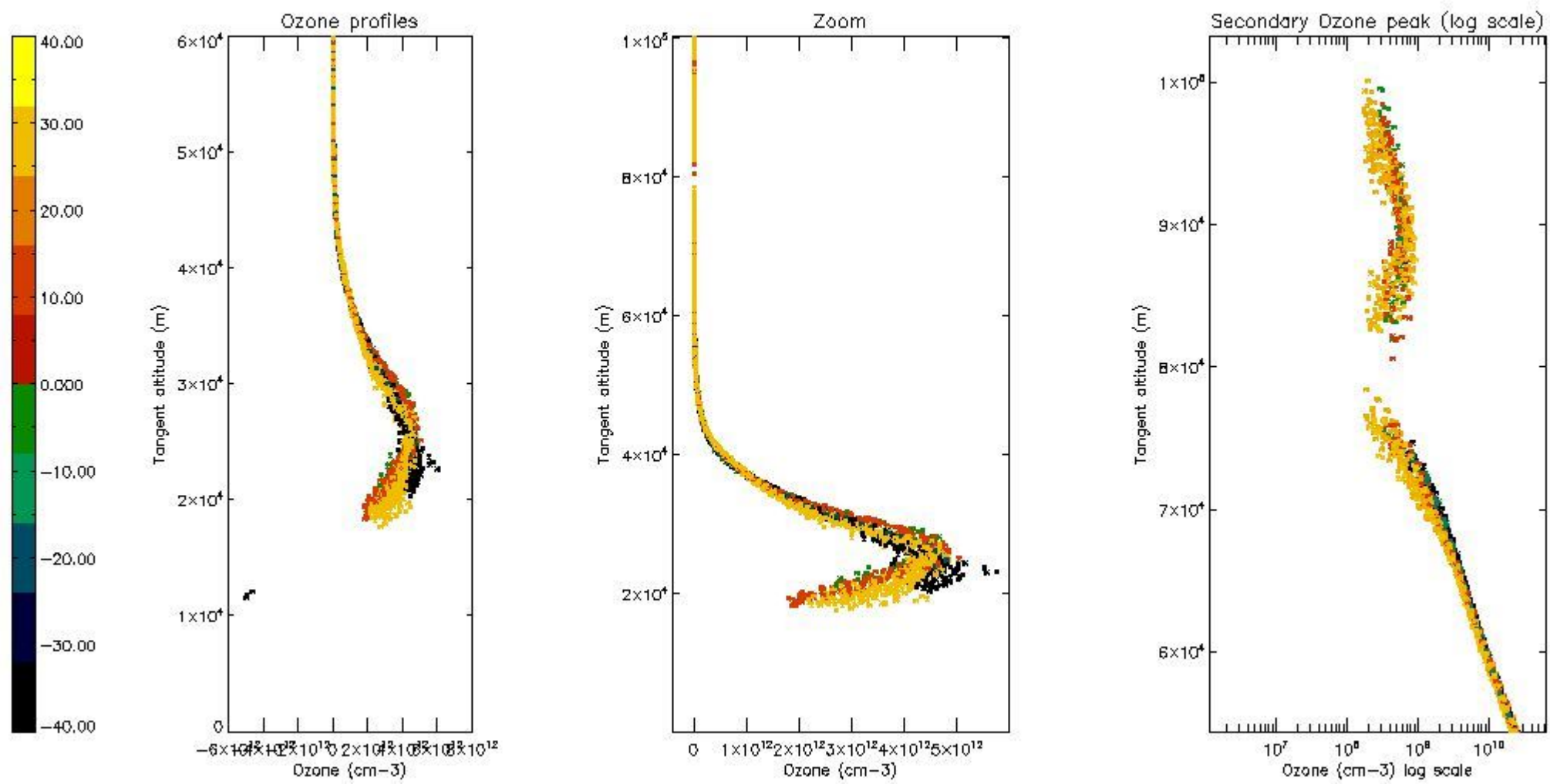
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



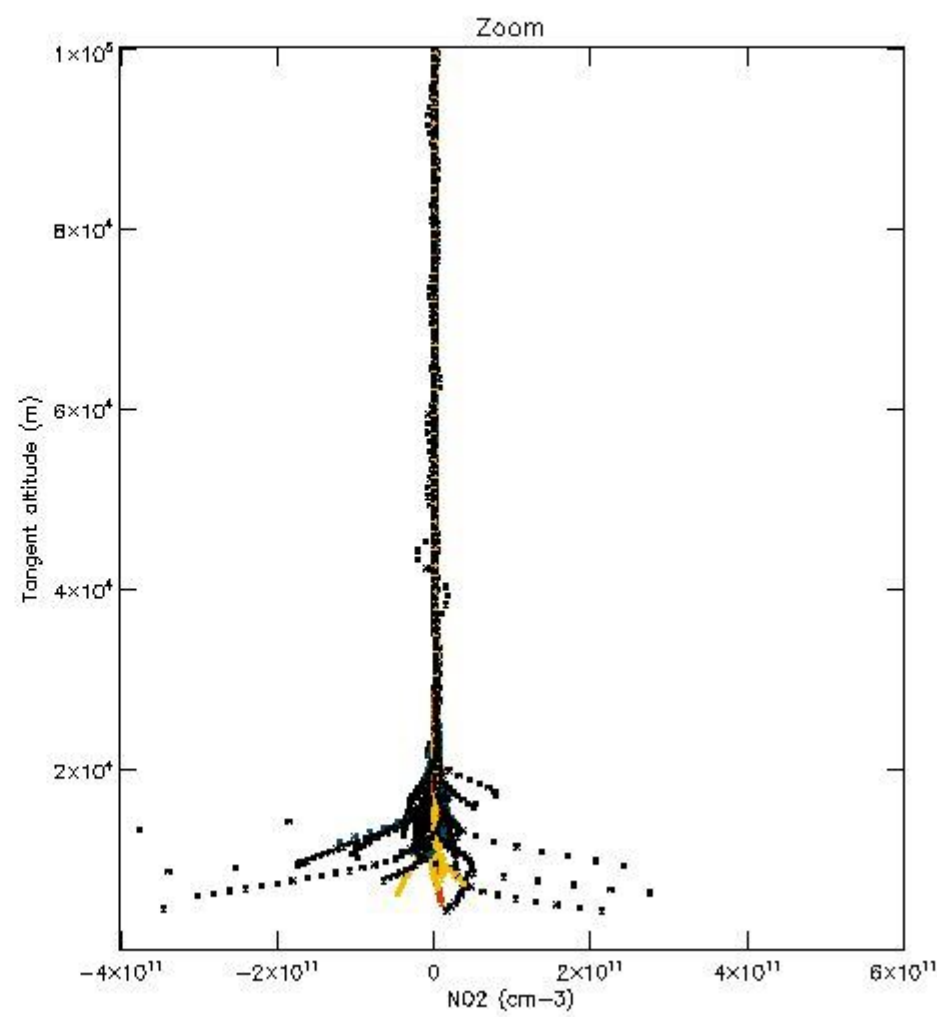
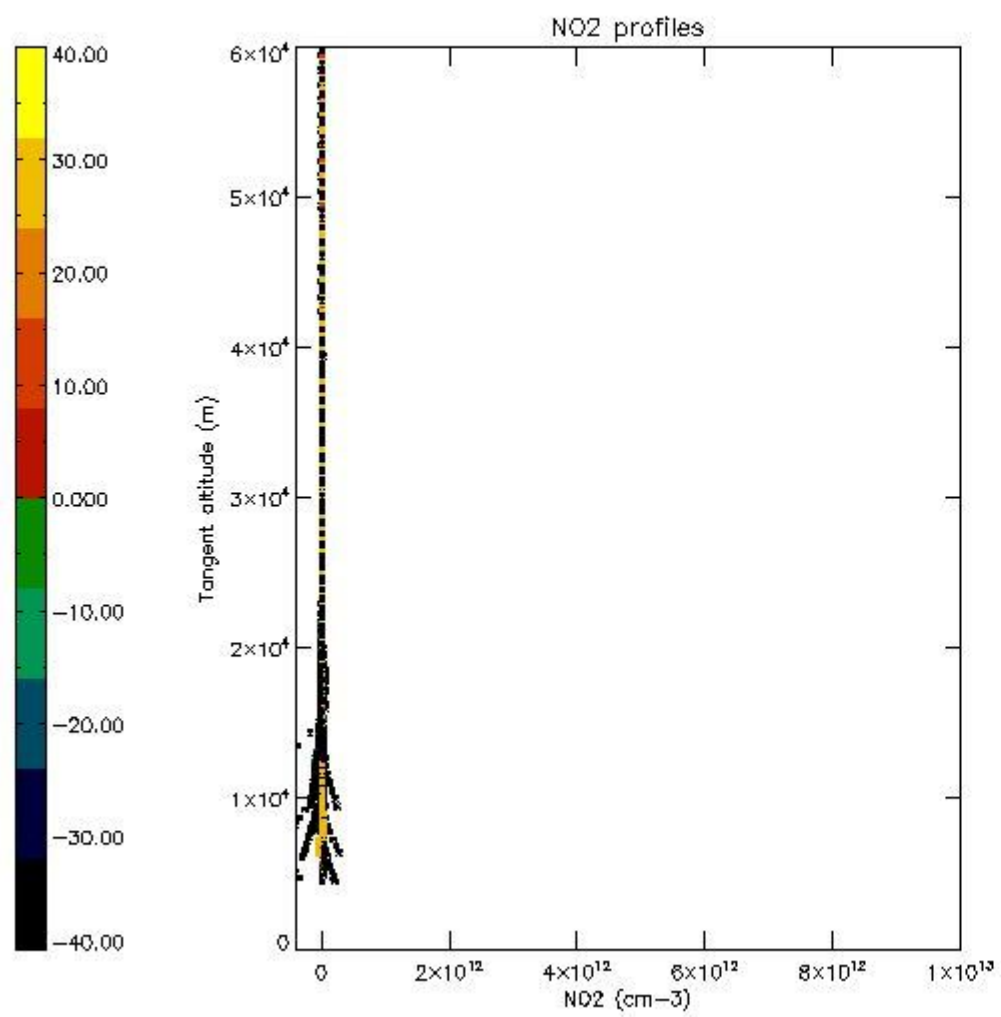
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



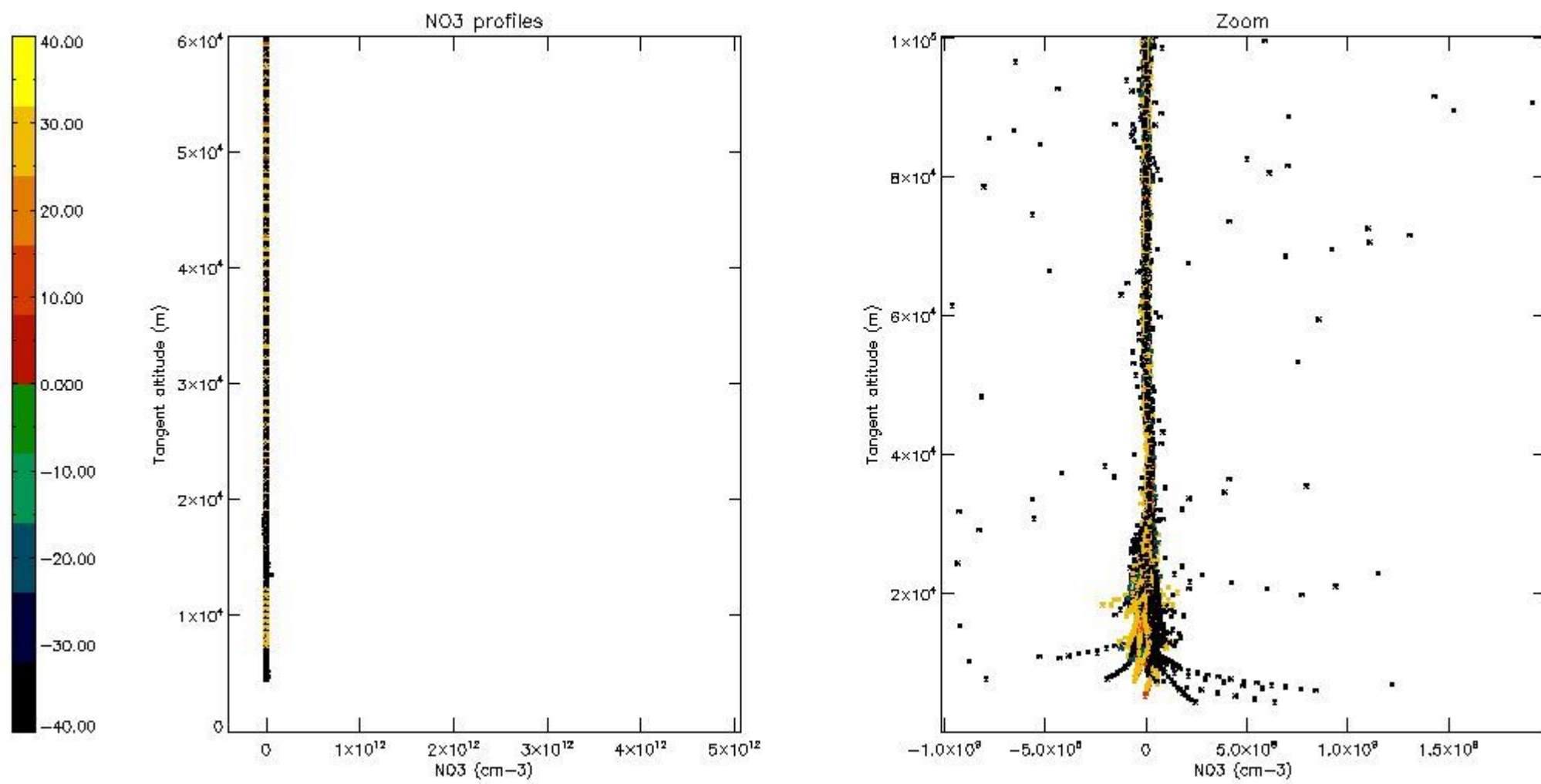
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



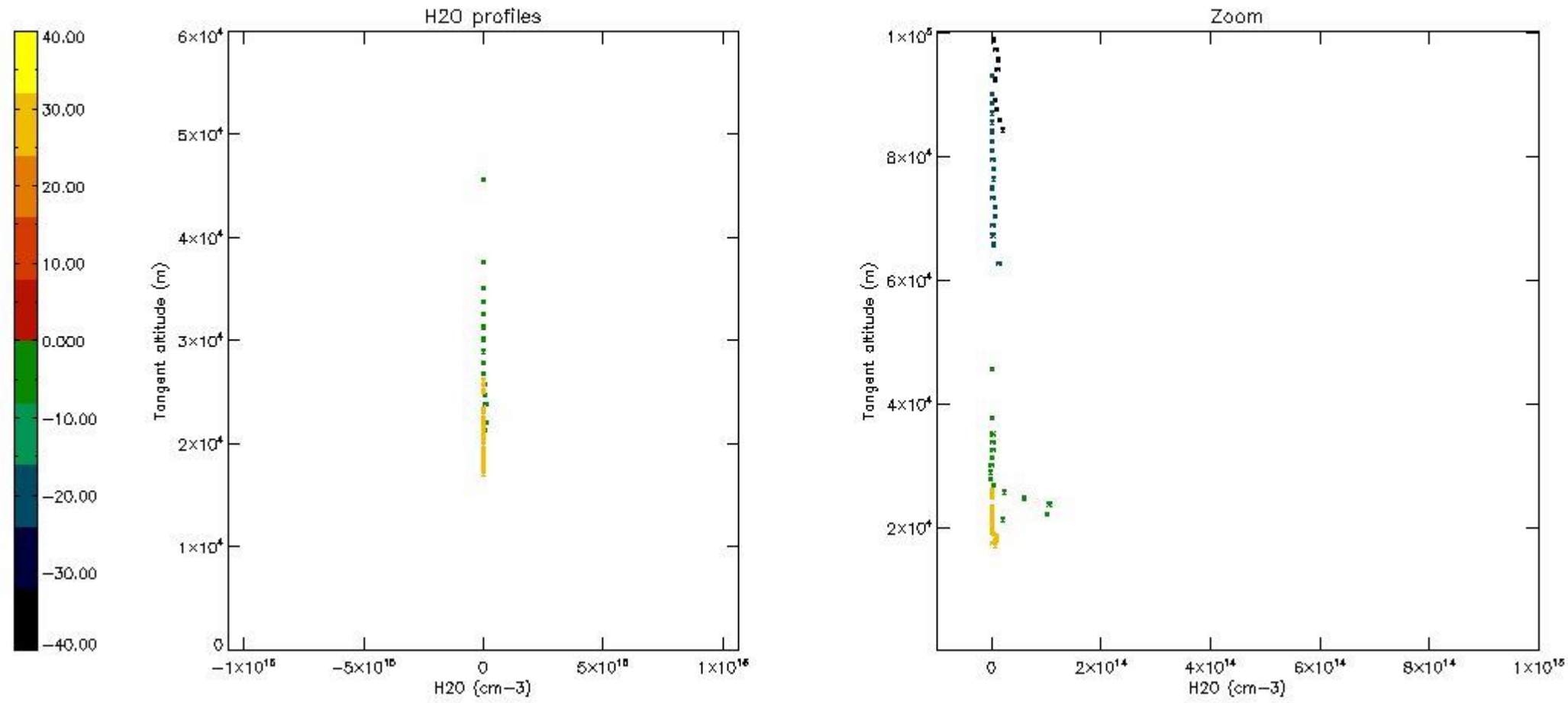
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

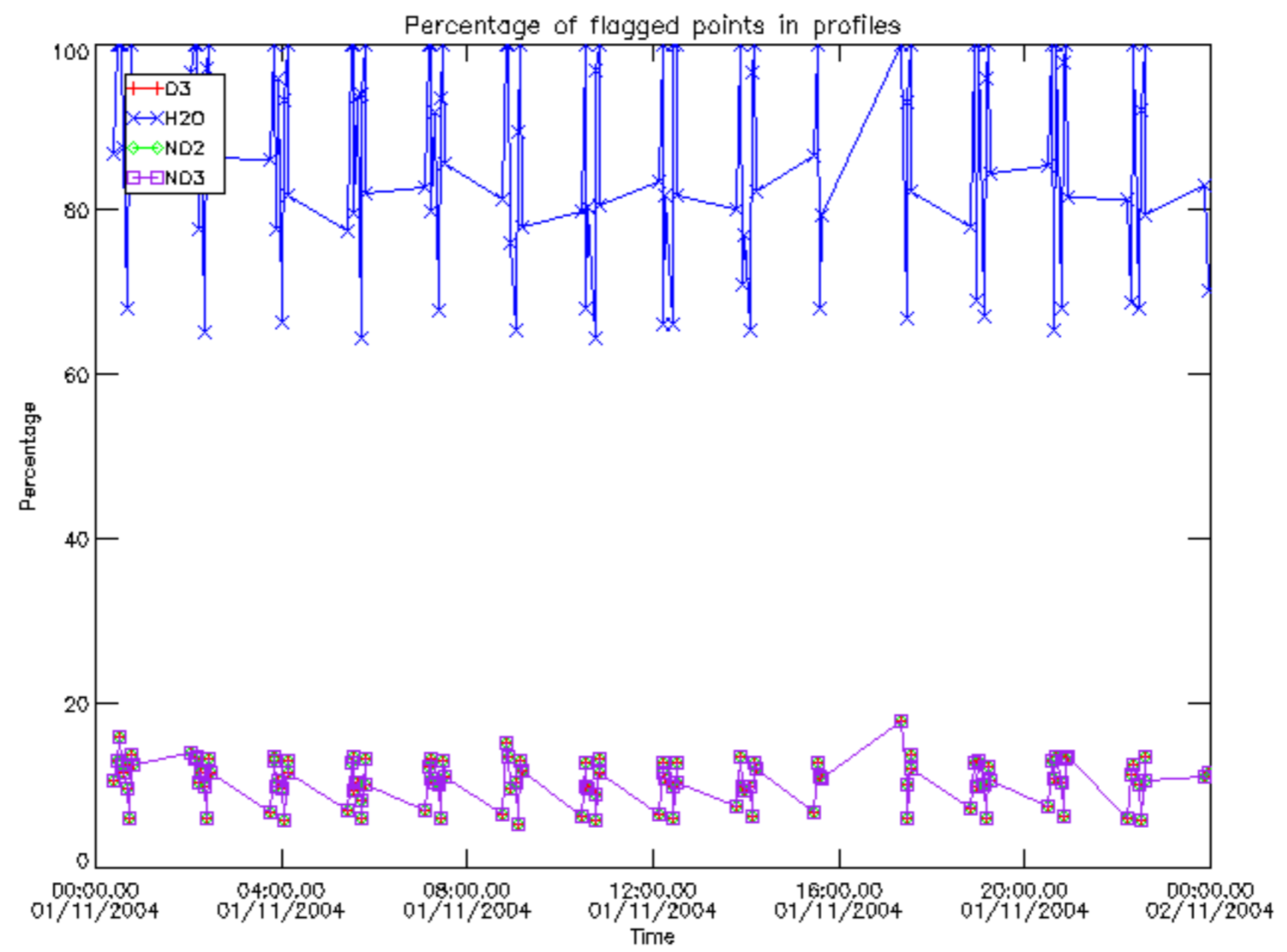
The colorbar represents the latitude.



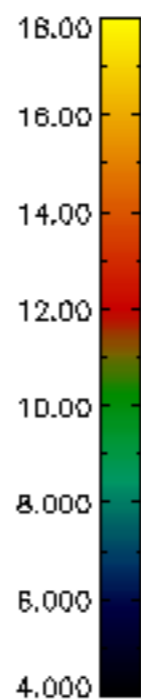
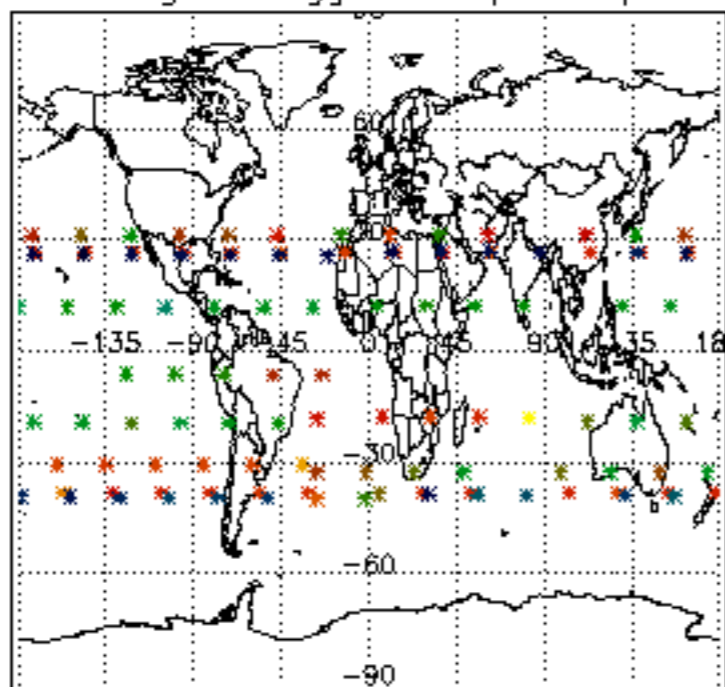
6. Auxiliary Data Files used for the production reported in section 2

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.

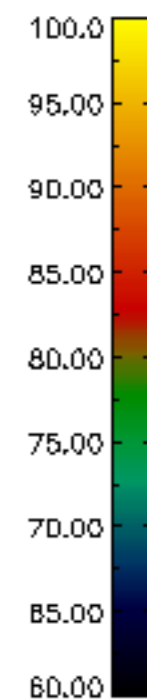
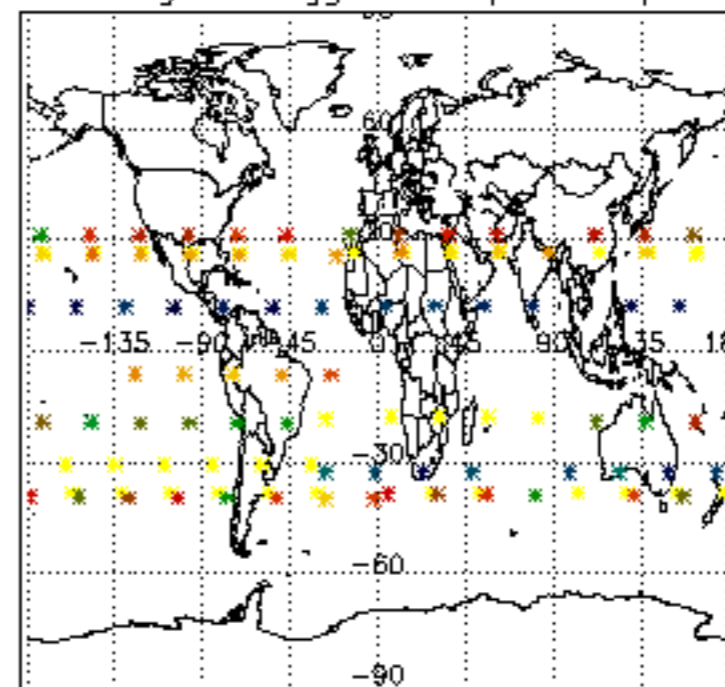
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	01-NOV-2004 00:01:54
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	01-NOV-2004 00:01:54
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	01-NOV-2004 00:01:54



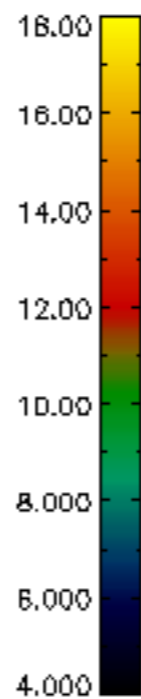
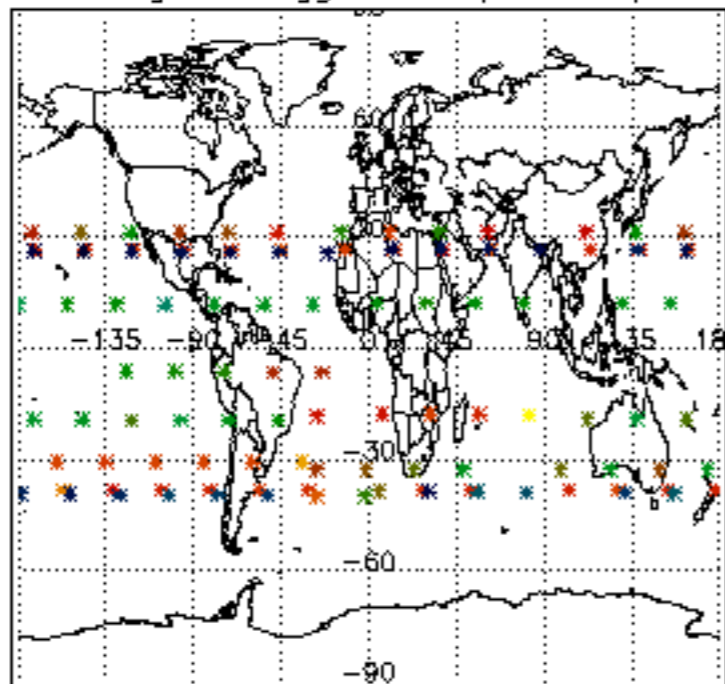
Percentage of flagged data per D3 profile



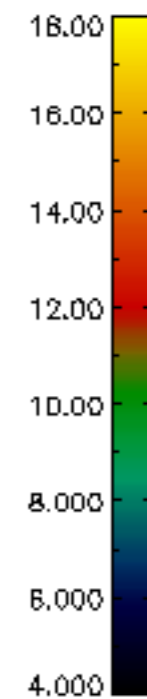
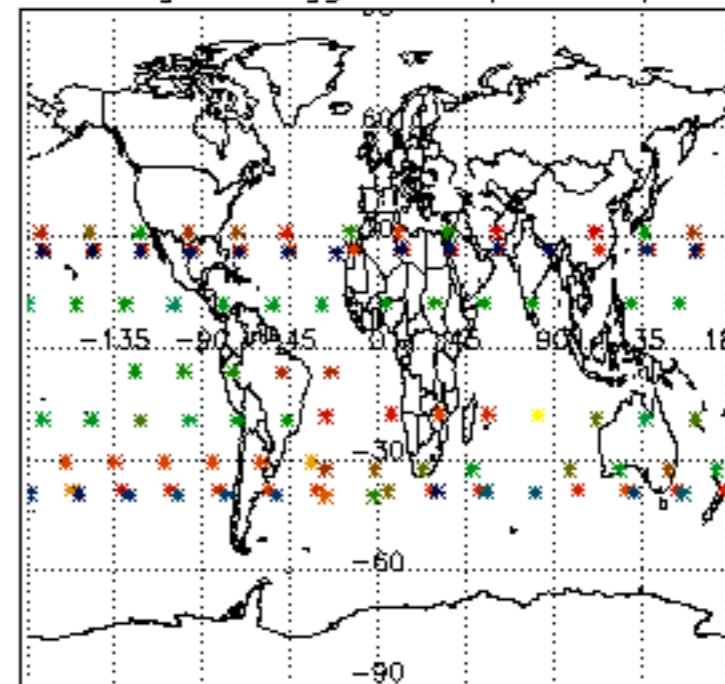
Percentage of flagged data per H2O profile

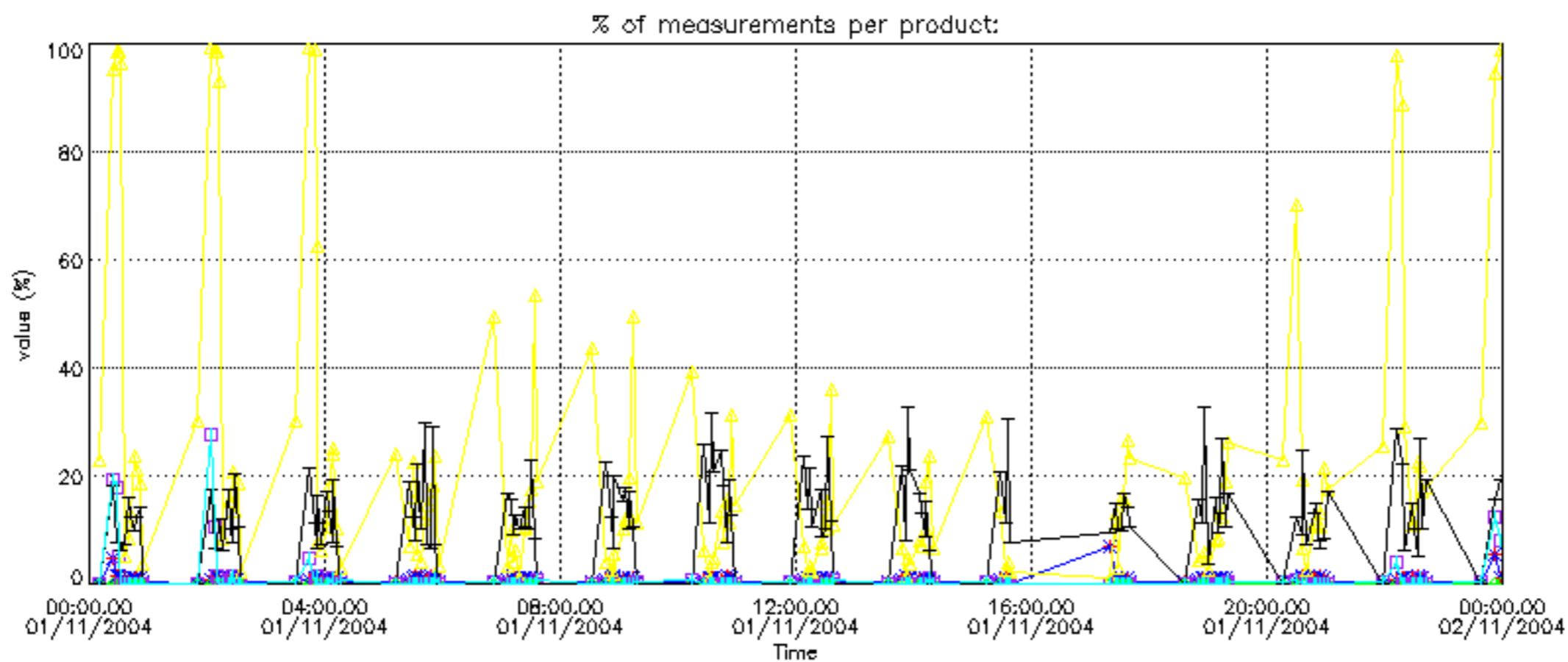
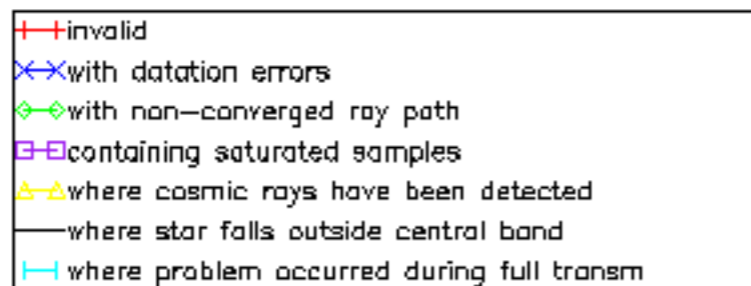


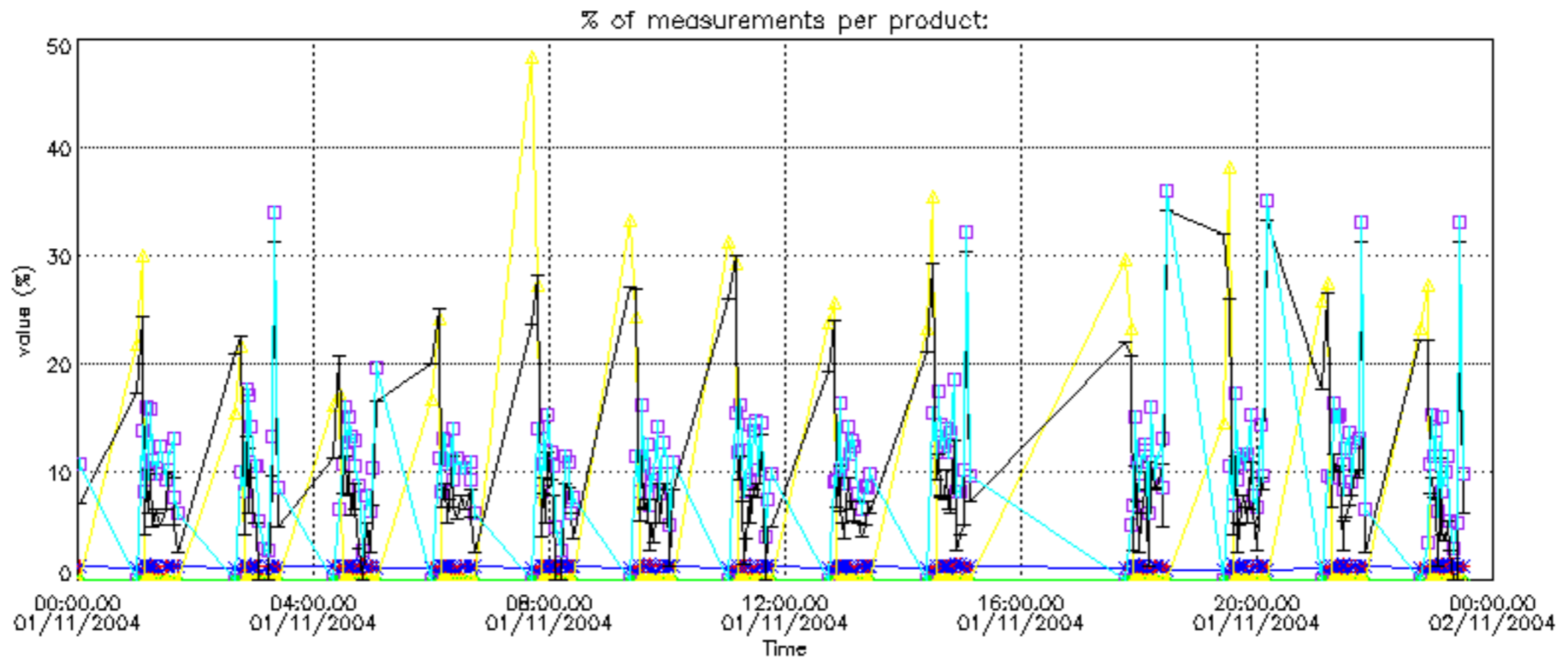
Percentage of flagged data per NO2 profile



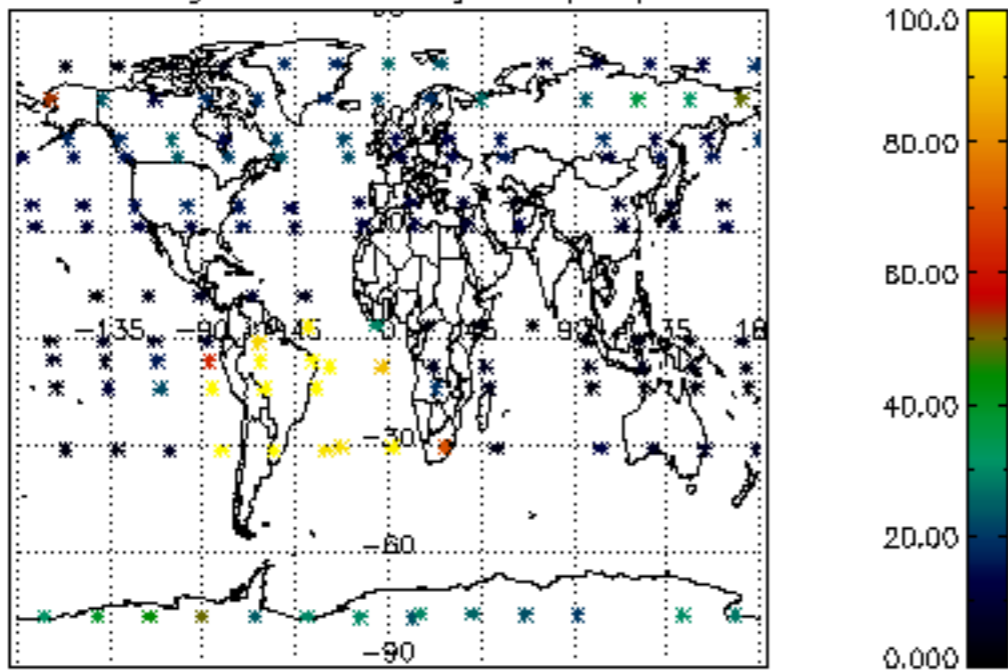
Percentage of flagged data per NO3 profile



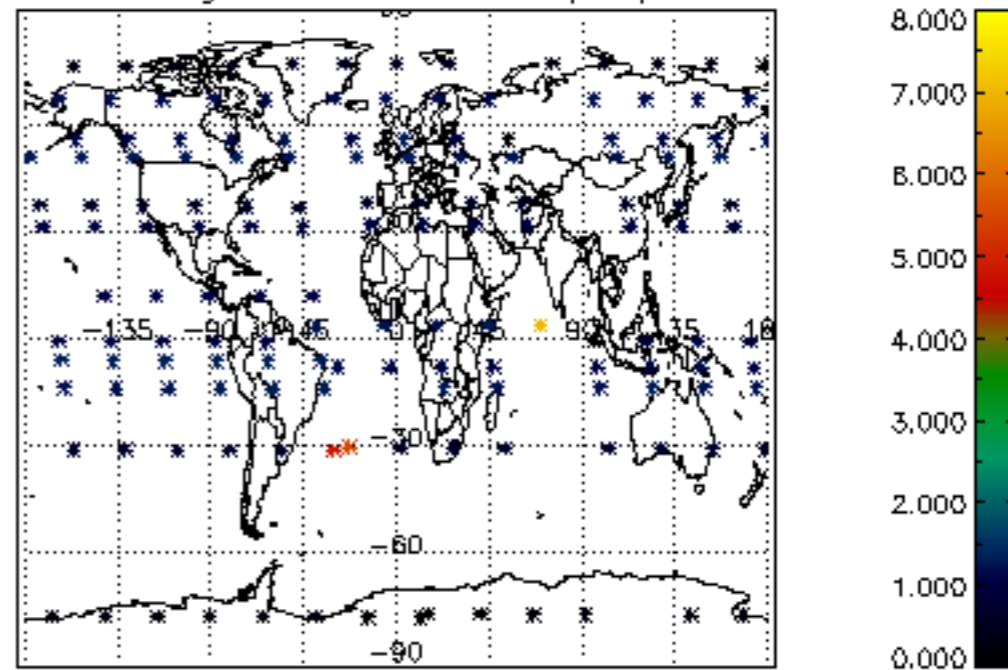




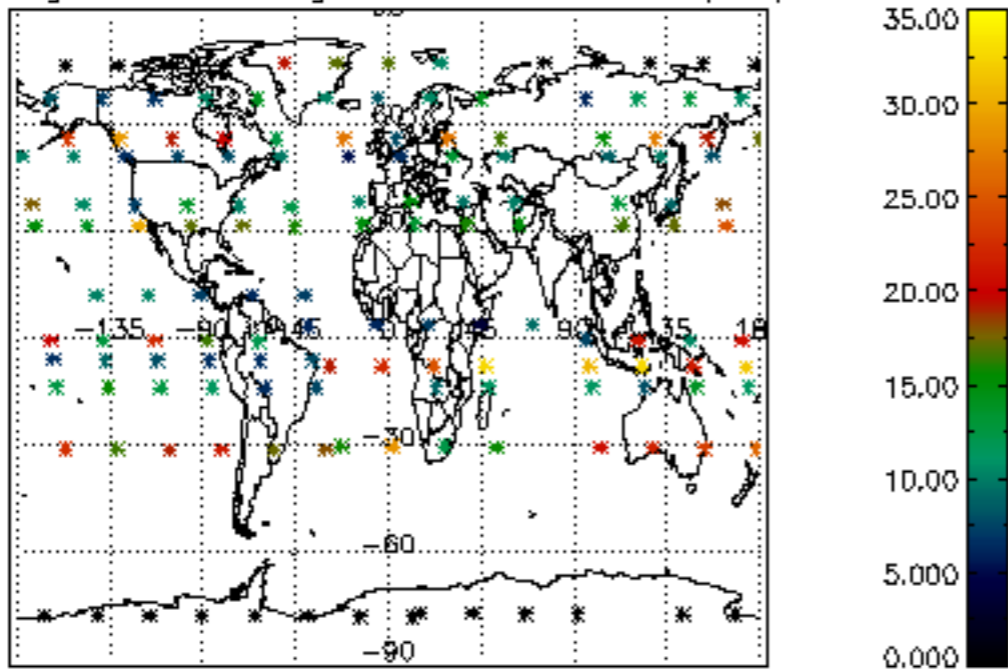
Percentage of cosmic ray hits per profile



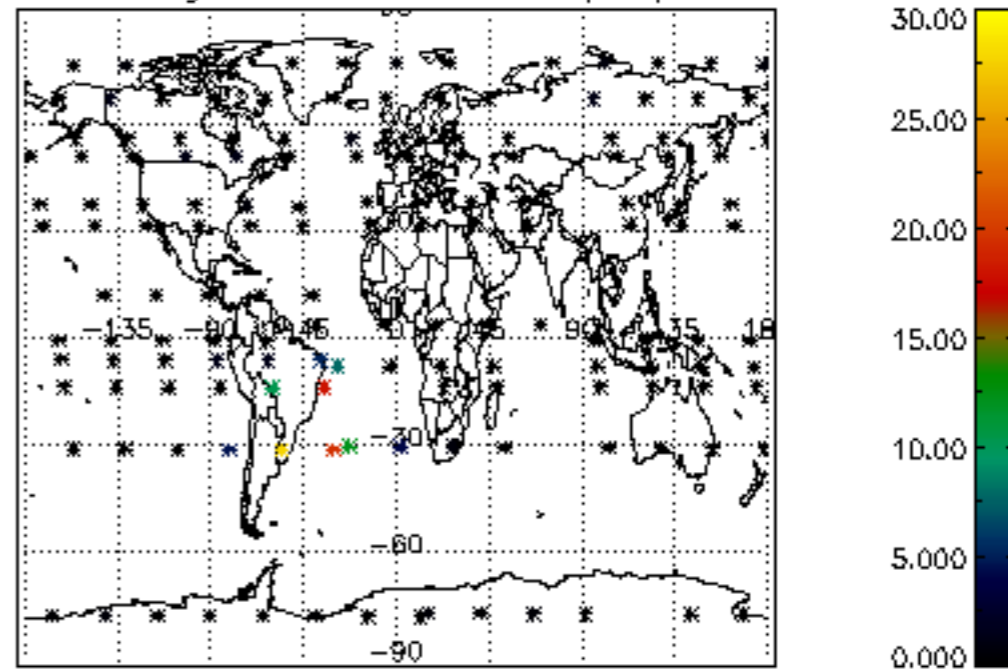
Percentage of datation errors per profile



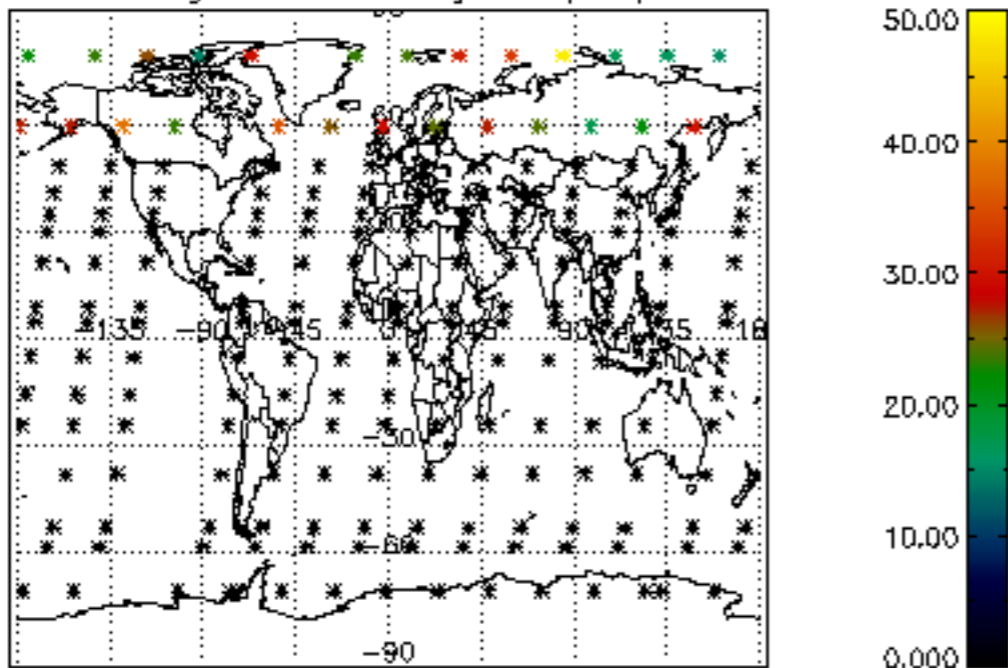
Percentage of star falling outside central band per profile



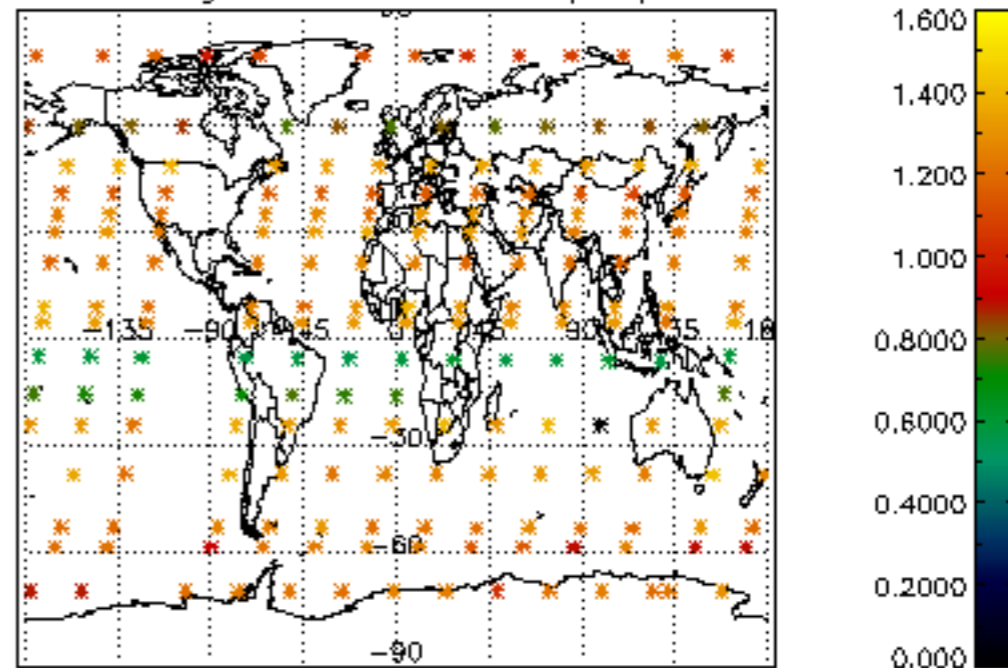
Percentage of saturation errors per profile



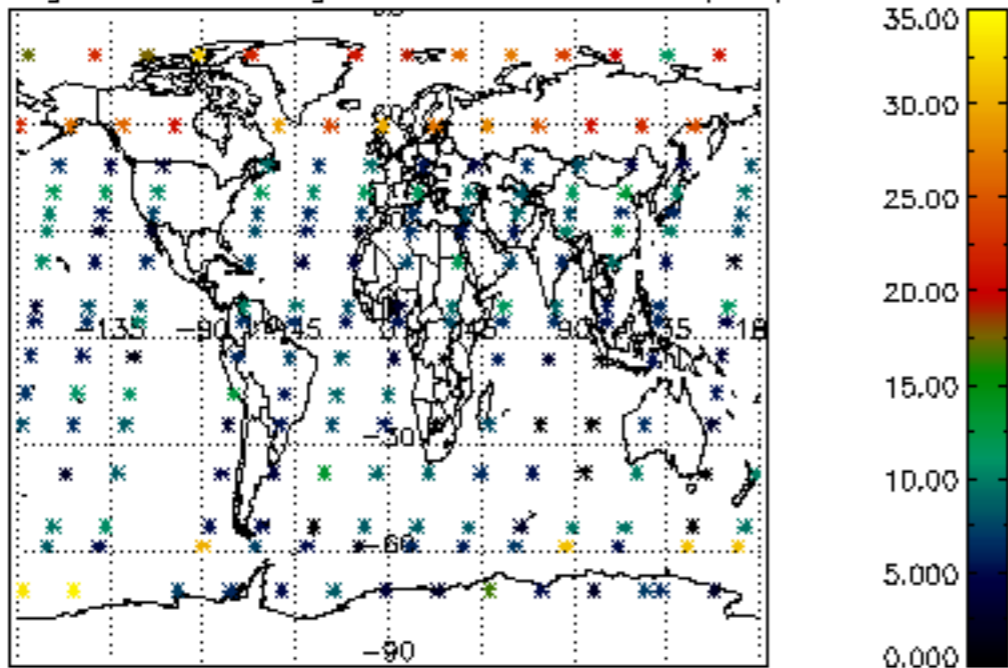
Percentage of cosmic ray hits per profile



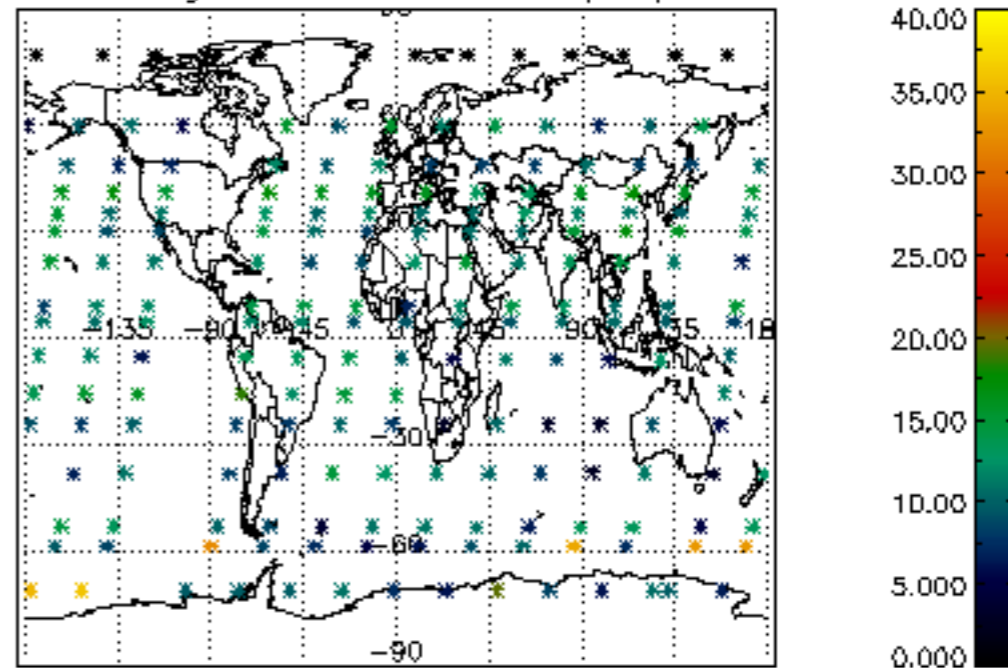
Percentage of datation errors per profile

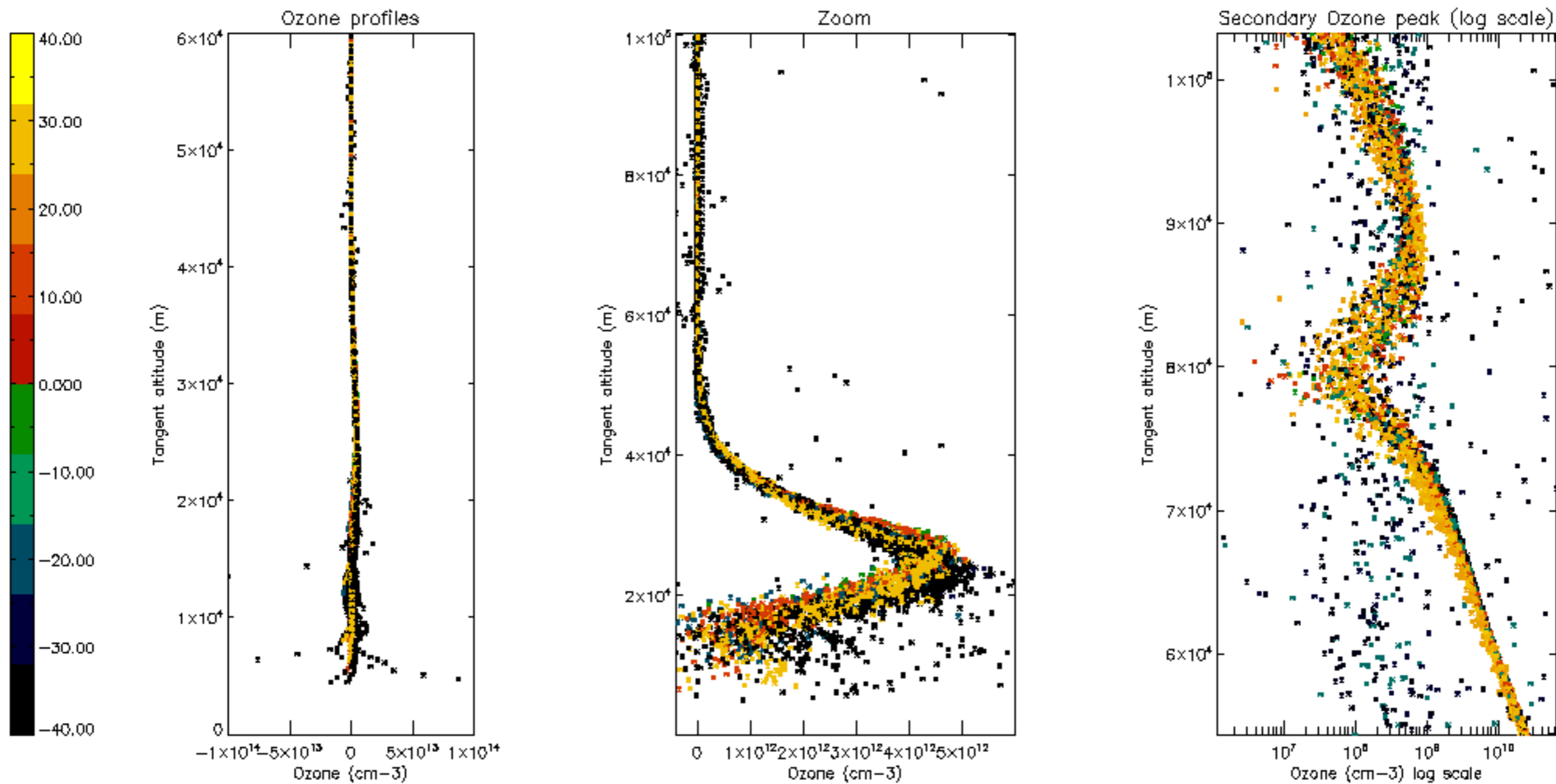


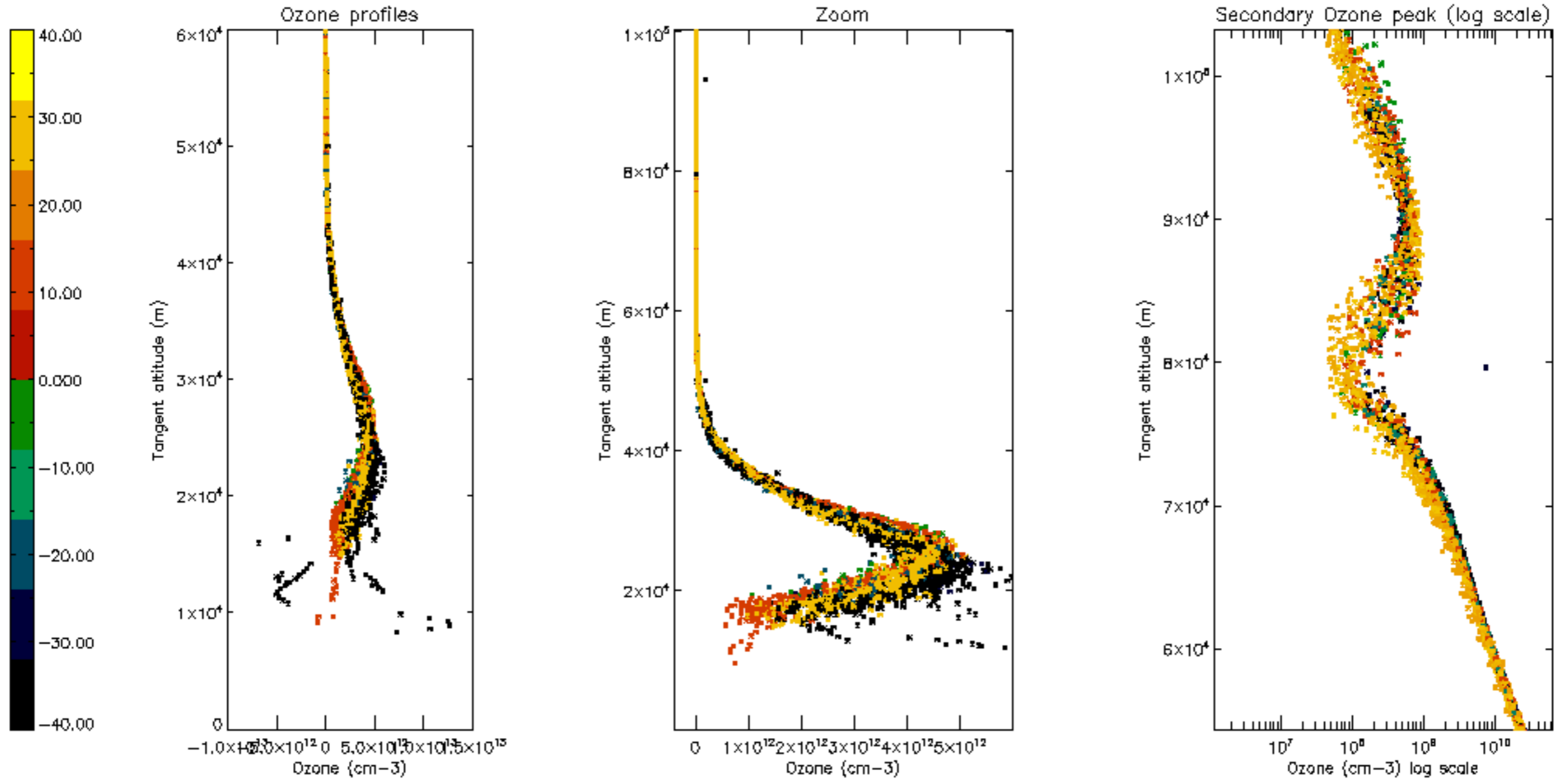
Percentage of star falling outside central band per profile

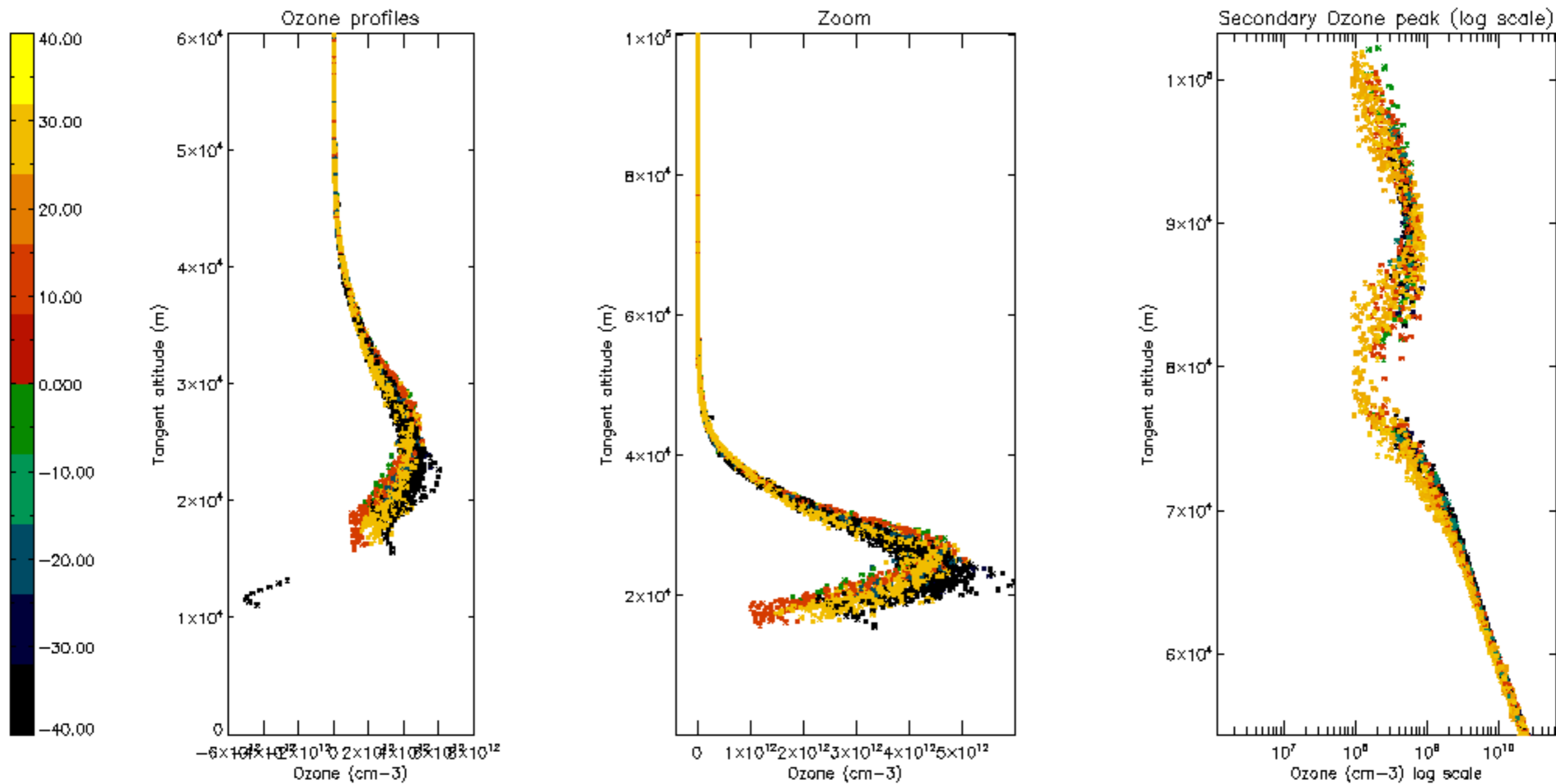


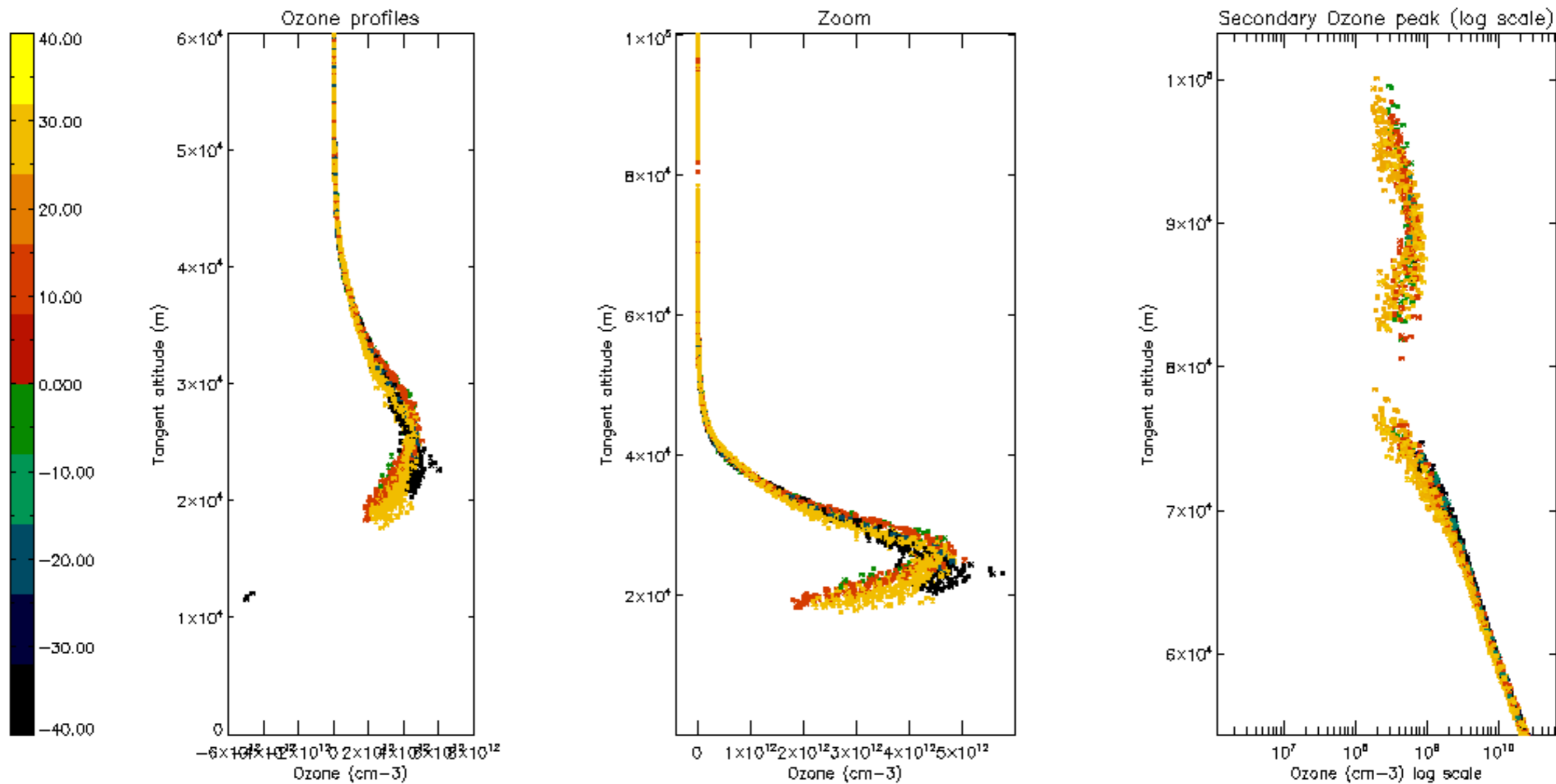
Percentage of saturation errors per profile

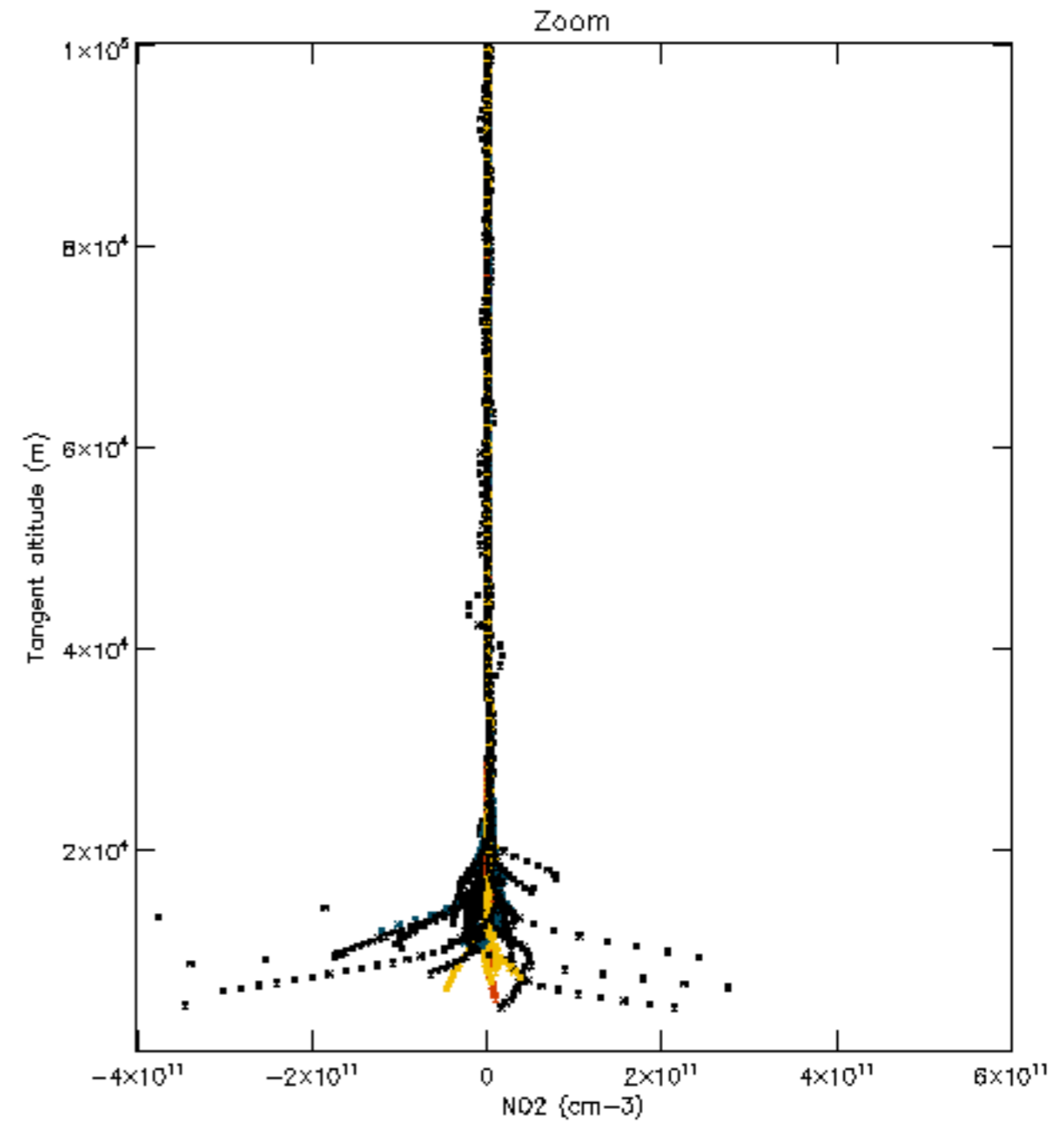
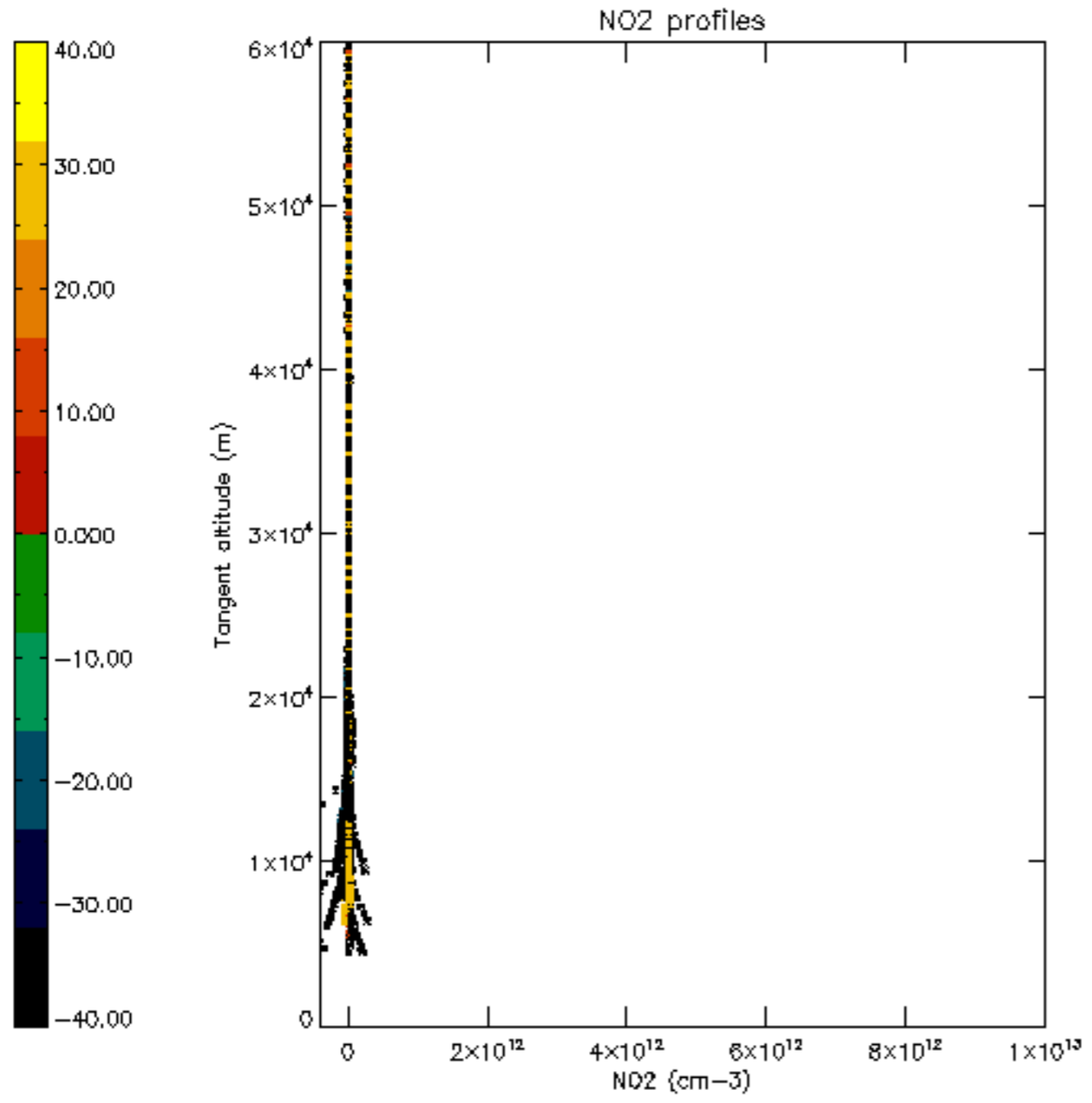


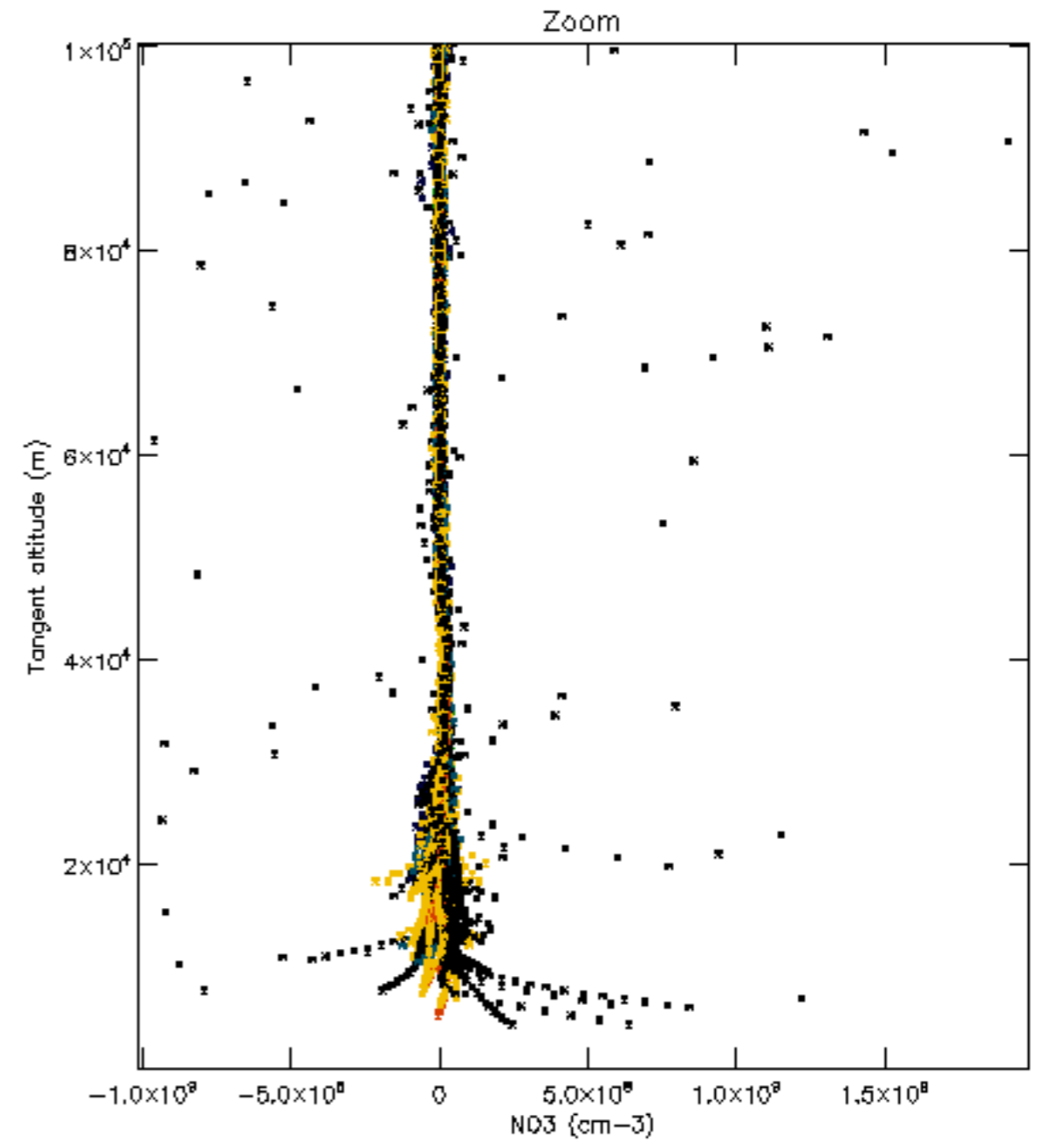
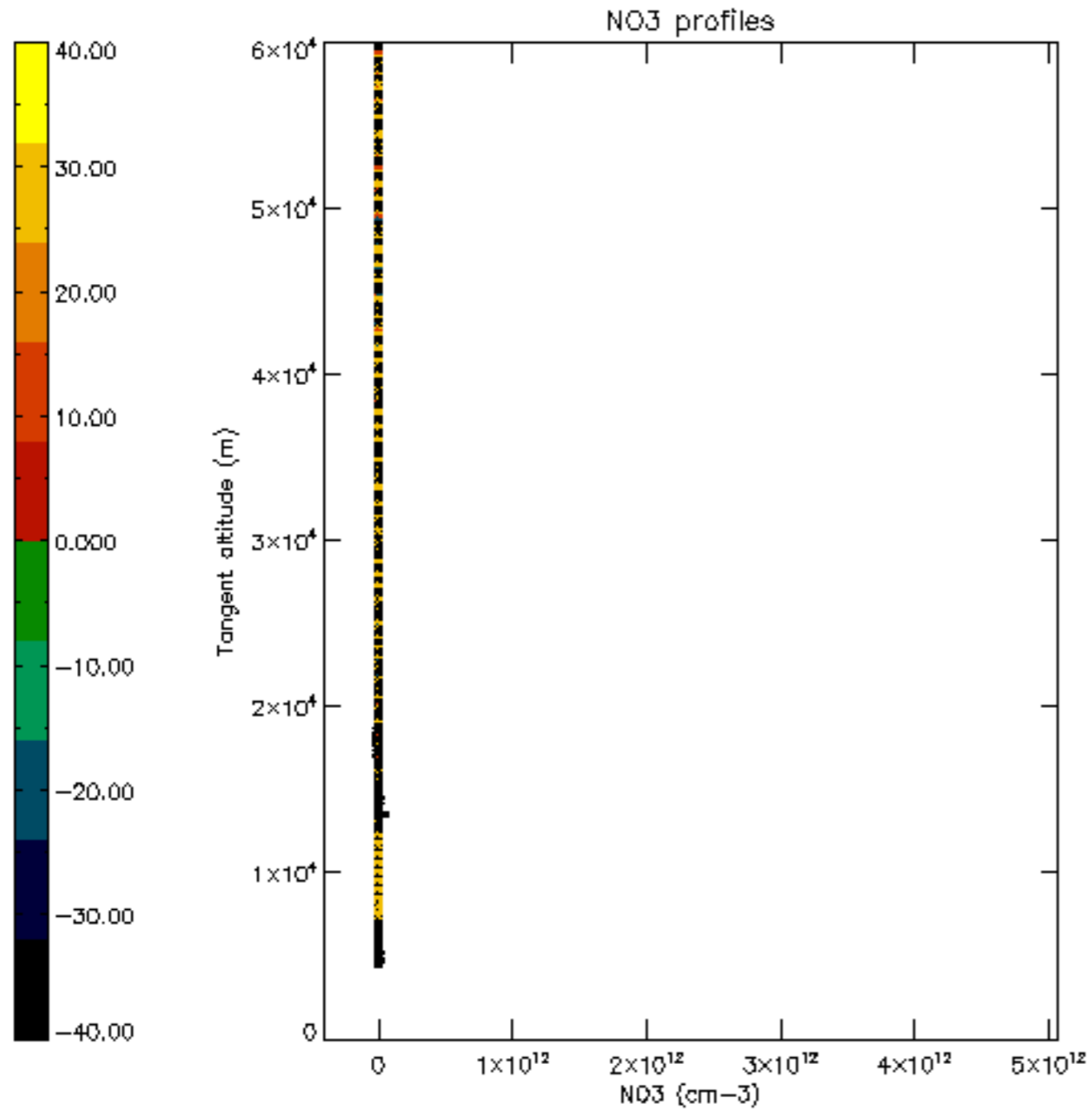


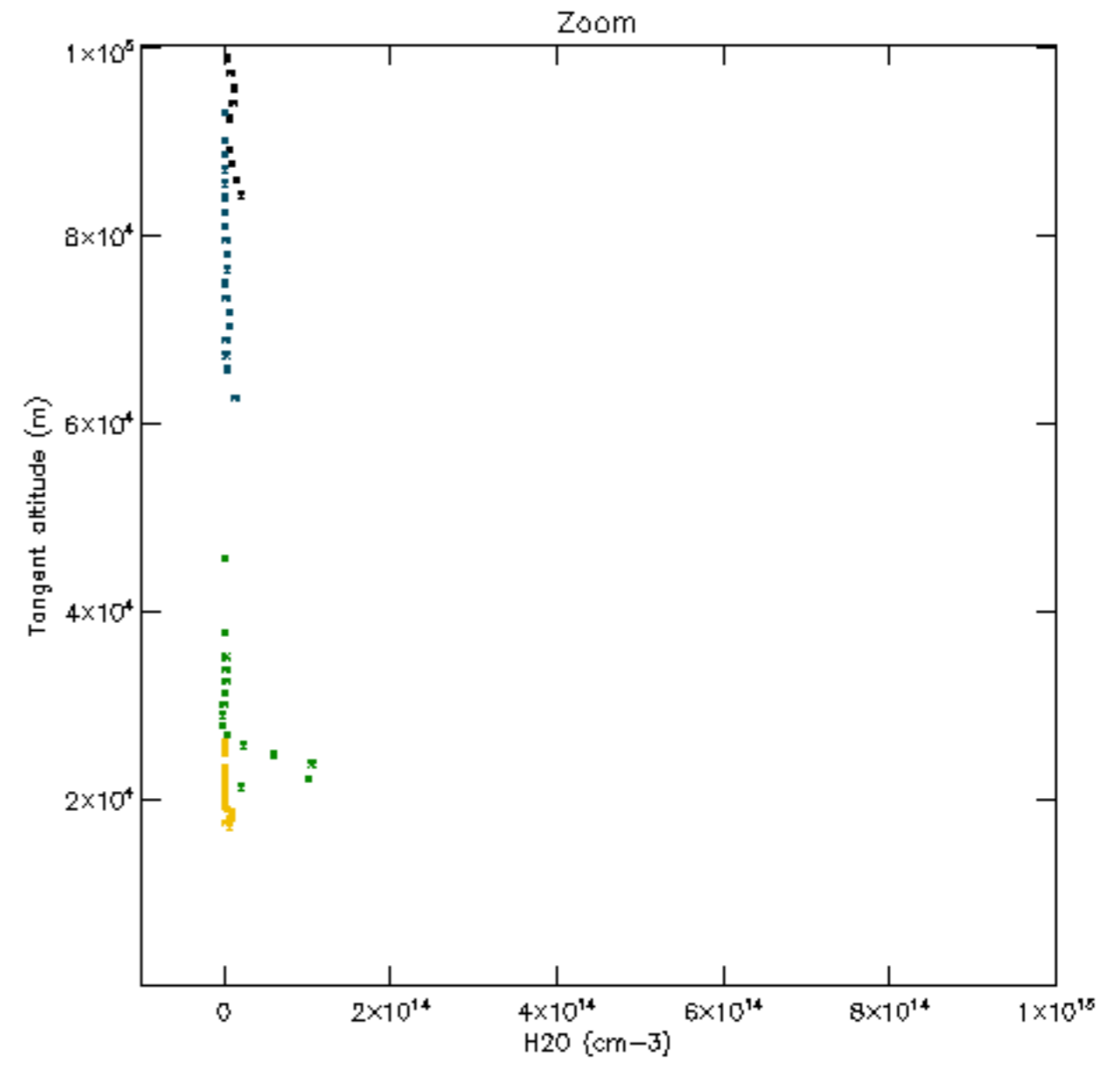
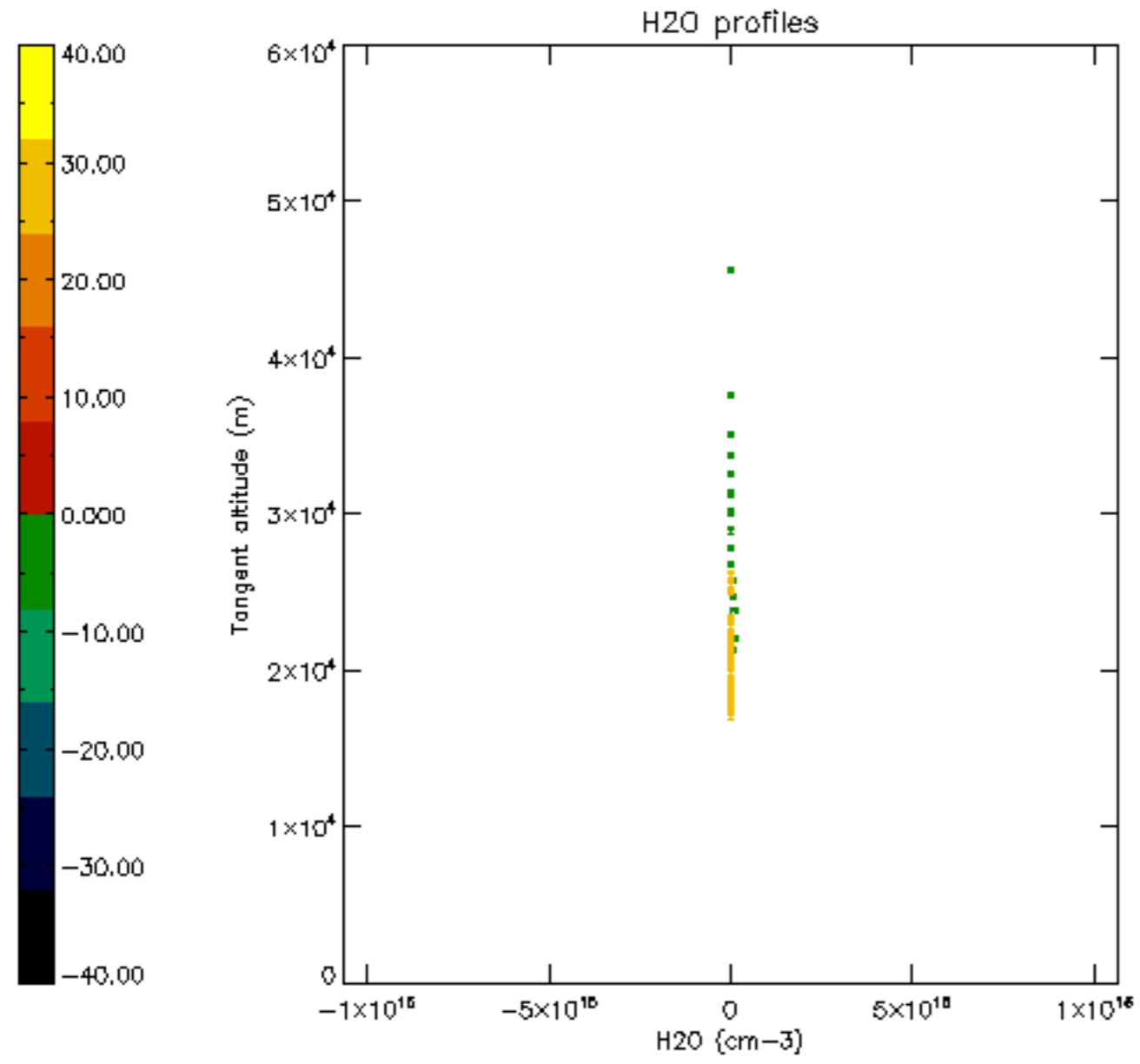


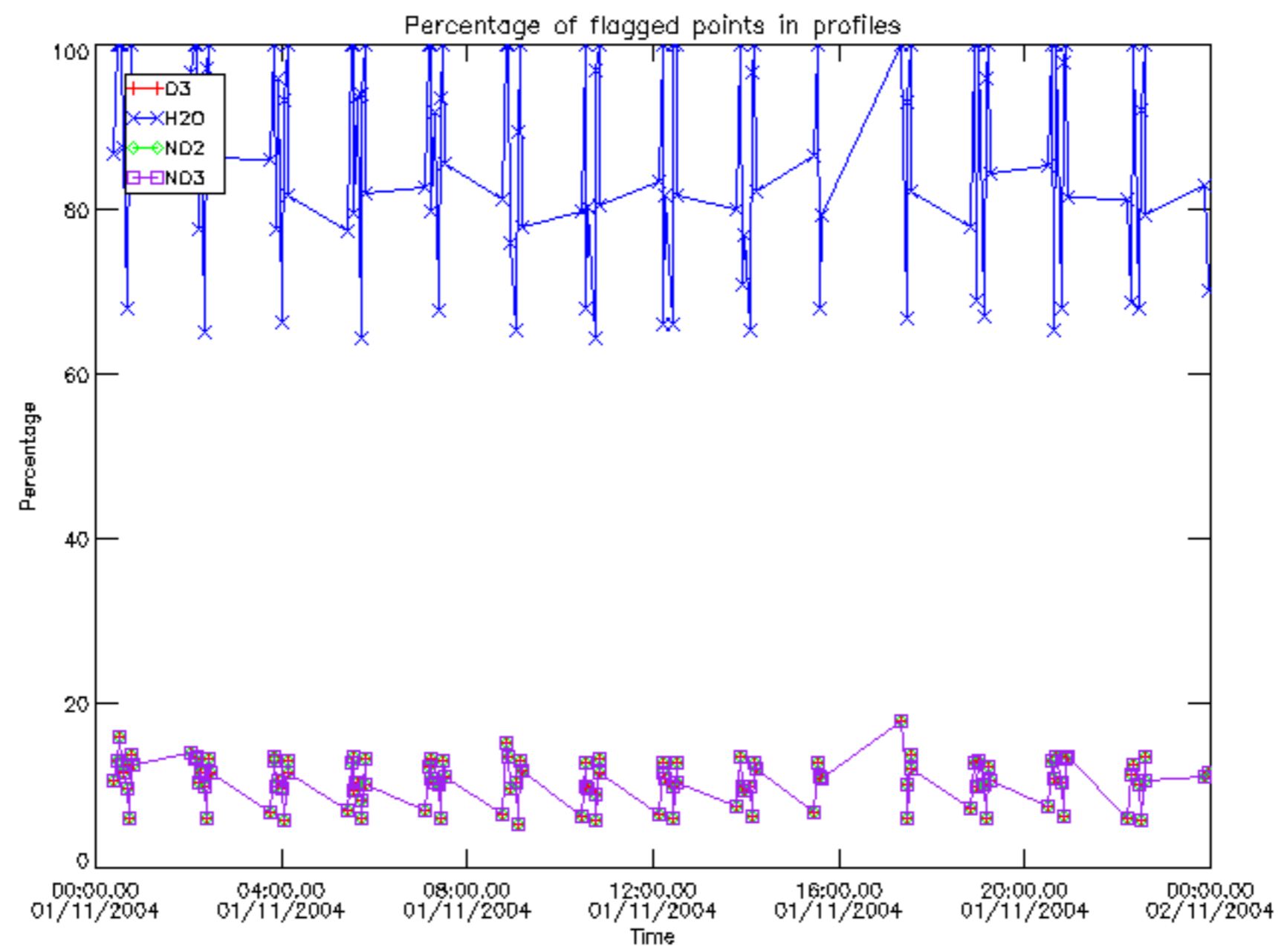




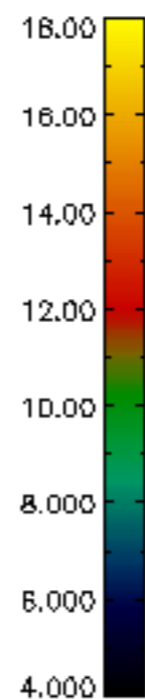
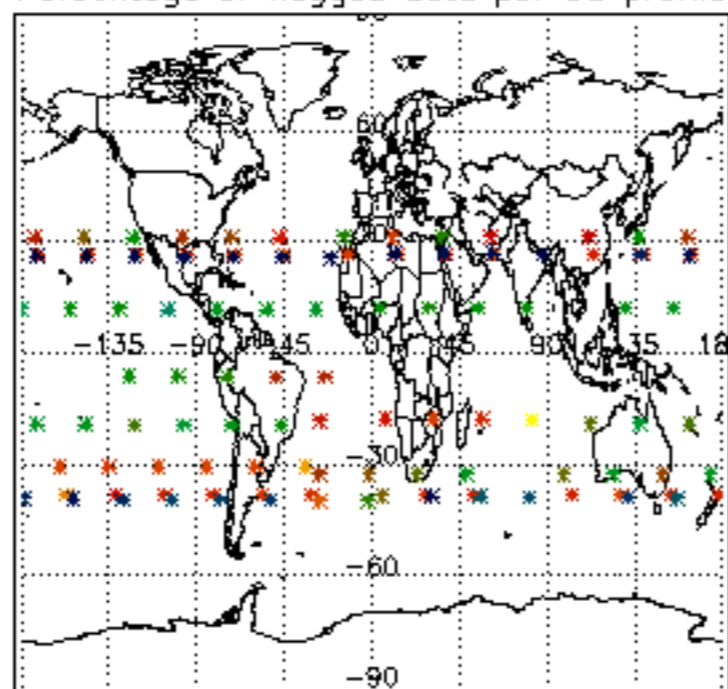




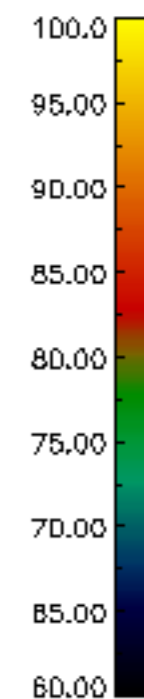
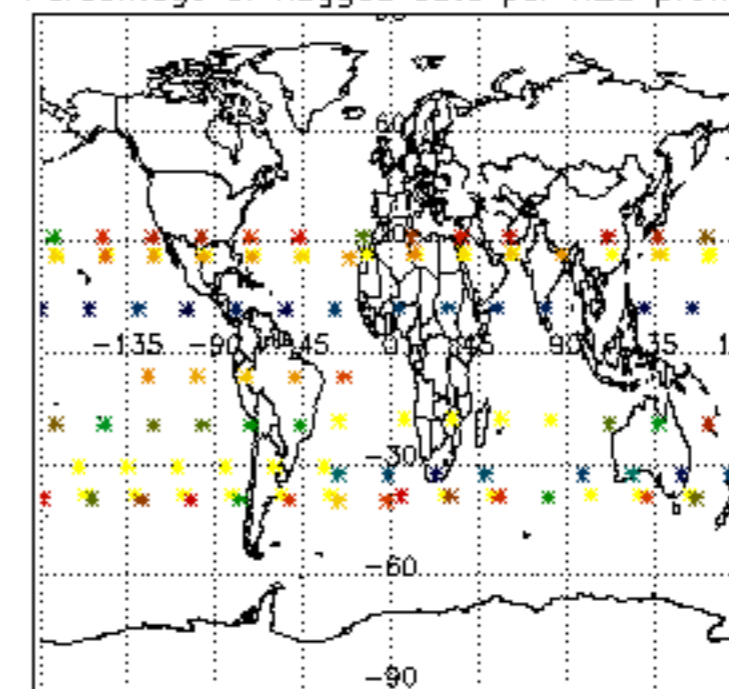




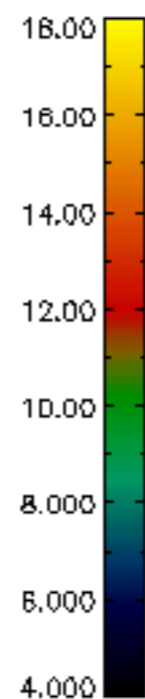
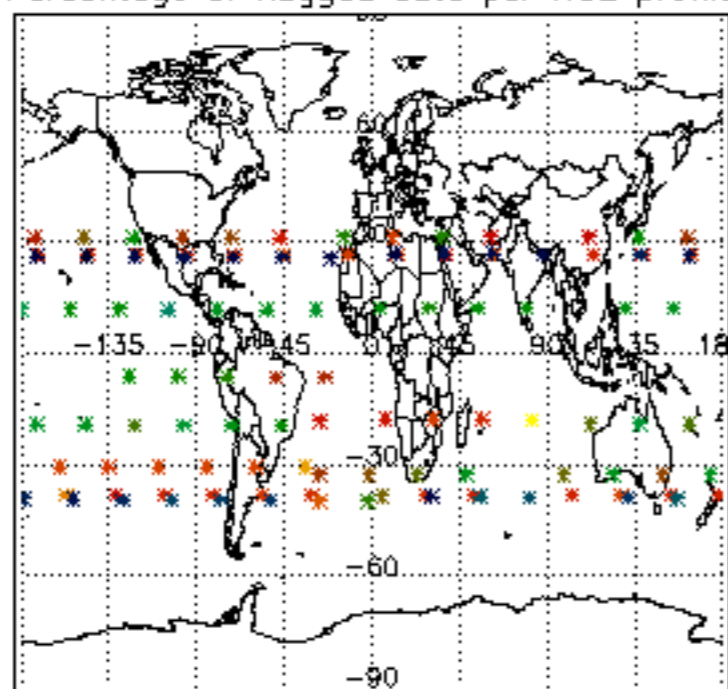
Percentage of flagged data per D3 profile



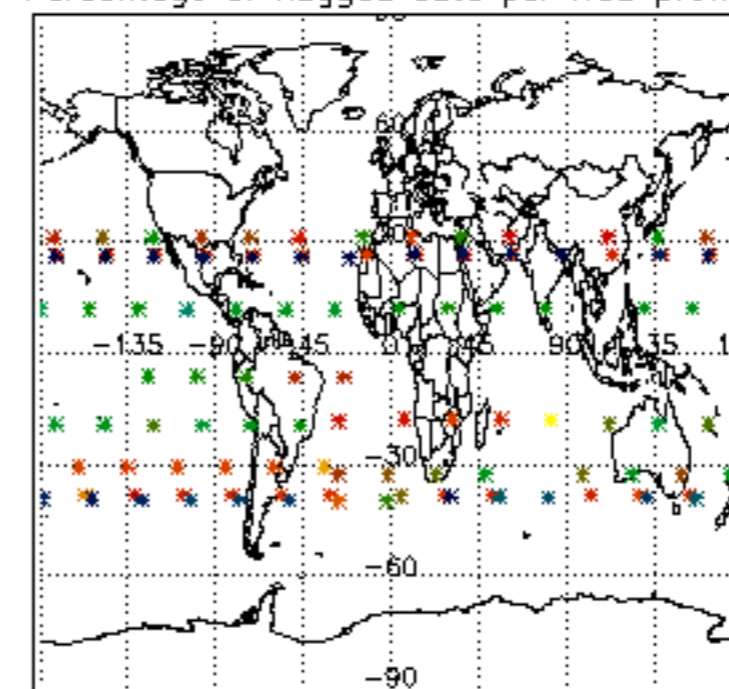
Percentage of flagged data per H2O profile

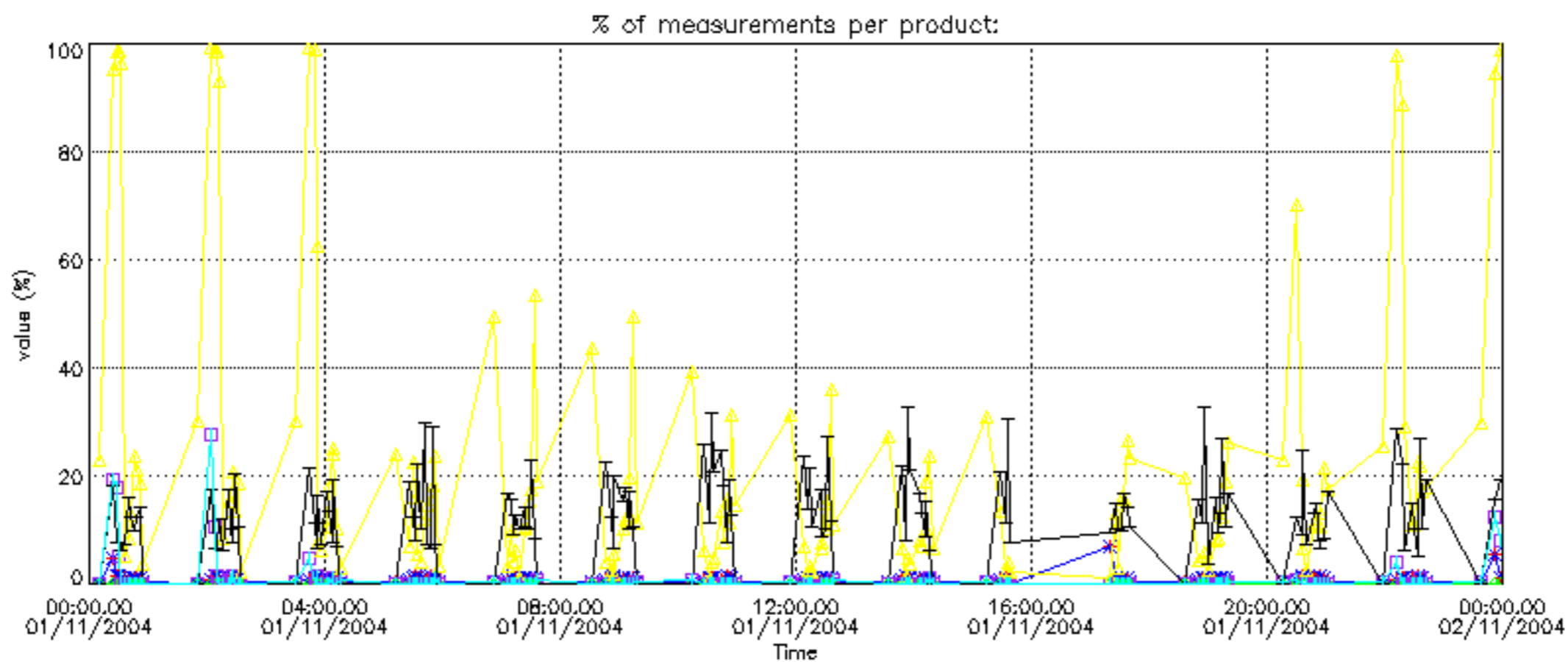
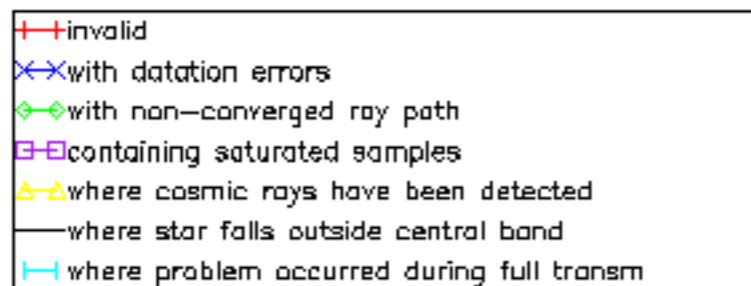


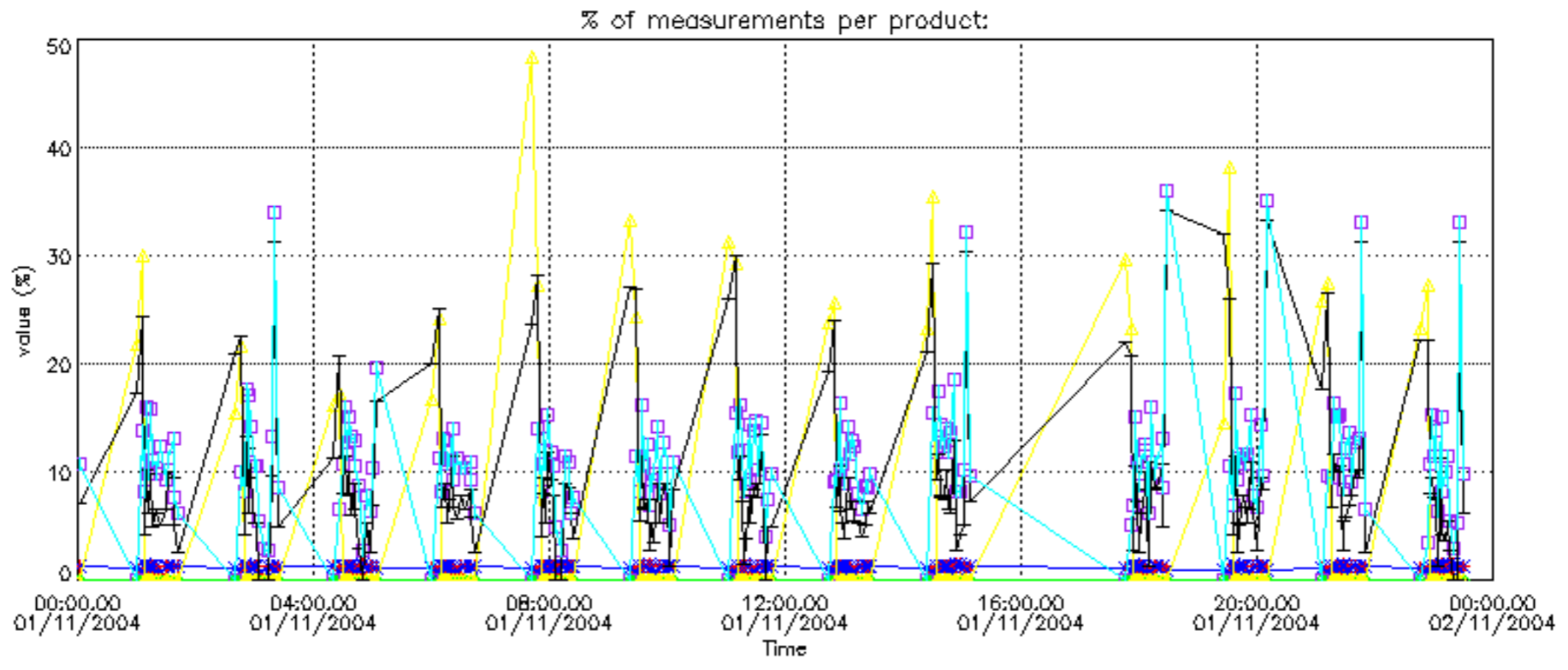
Percentage of flagged data per NO2 profile



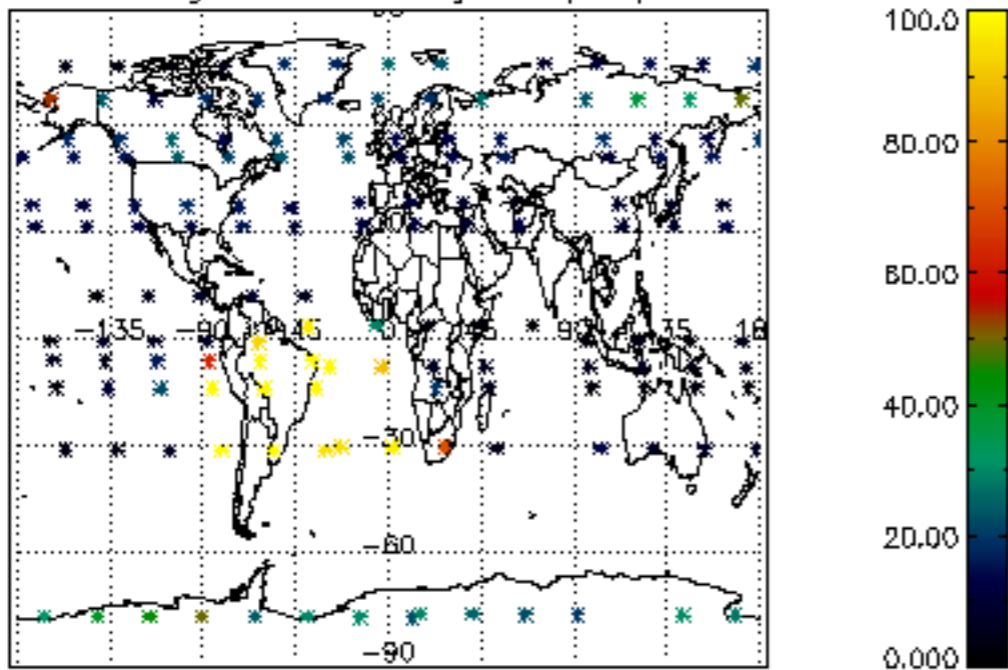
Percentage of flagged data per NO3 profile



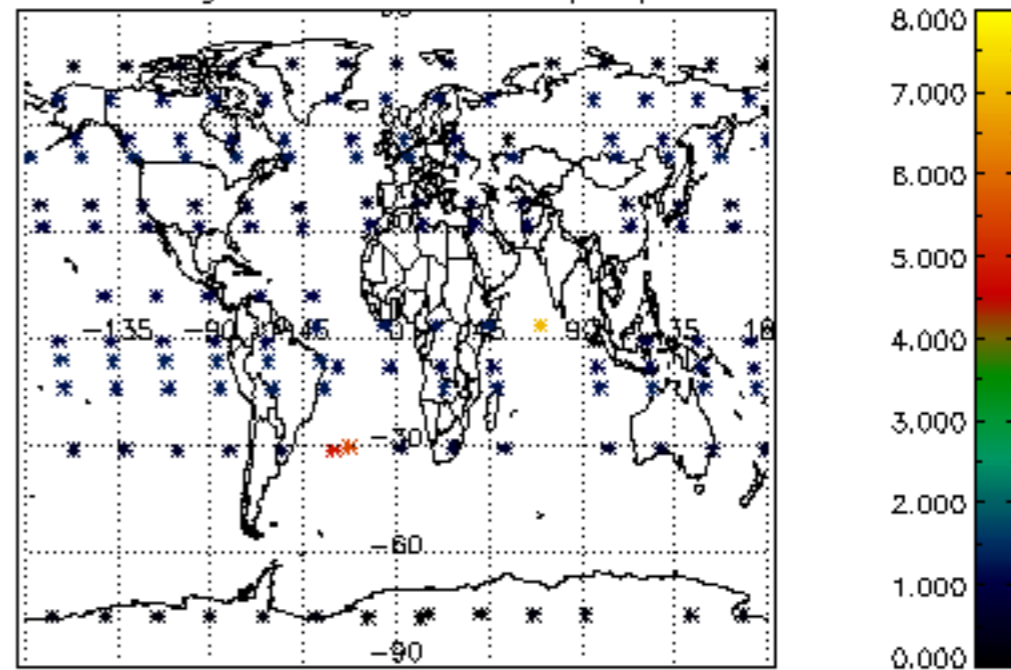




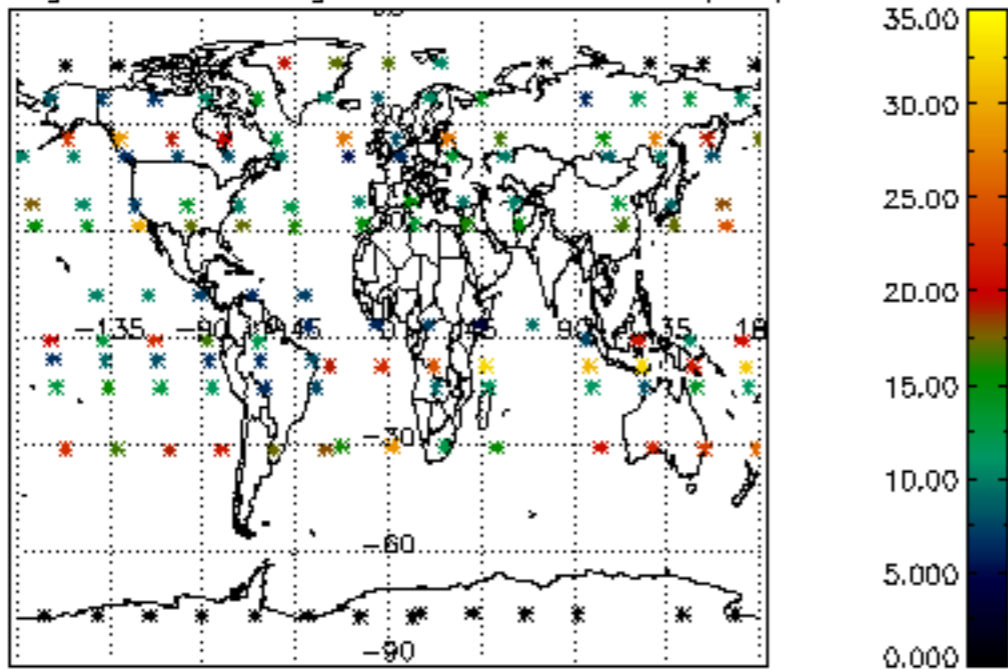
Percentage of cosmic ray hits per profile



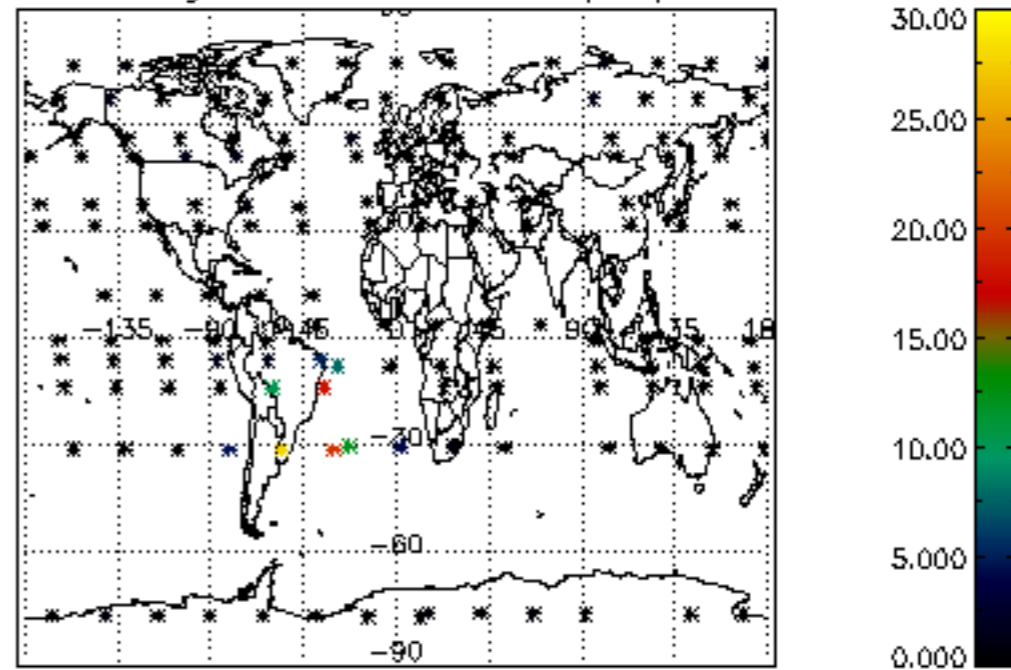
Percentage of datation errors per profile



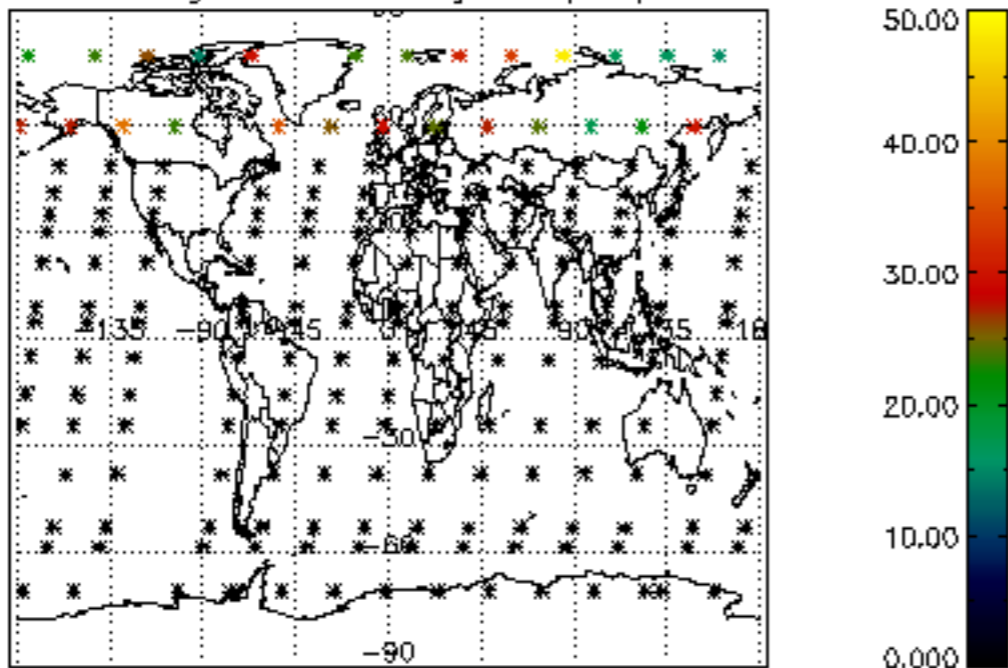
Percentage of star falling outside central band per profile



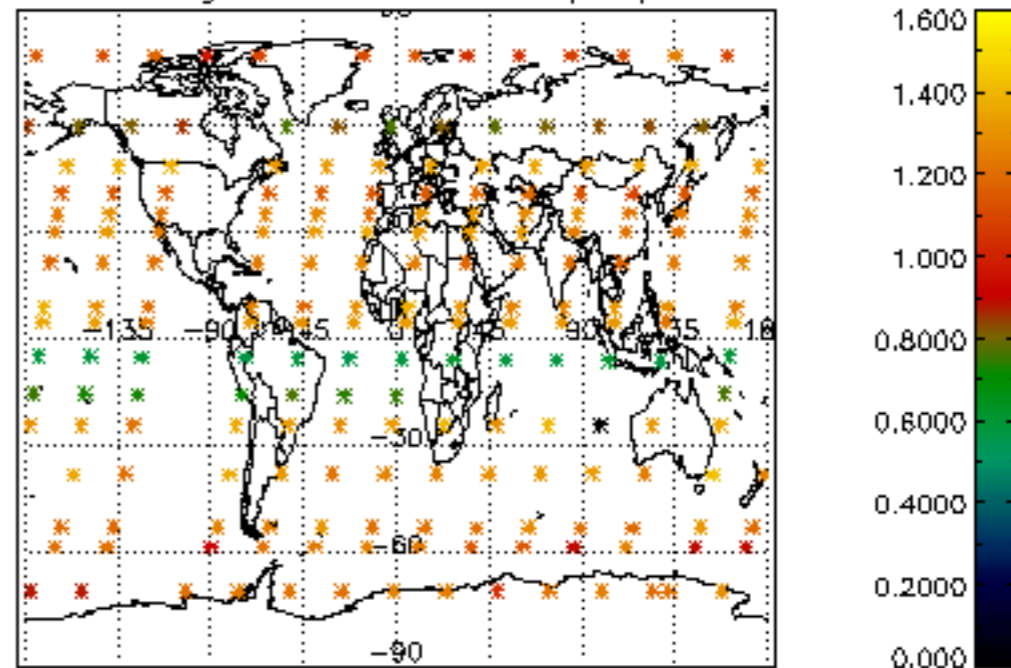
Percentage of saturation errors per profile



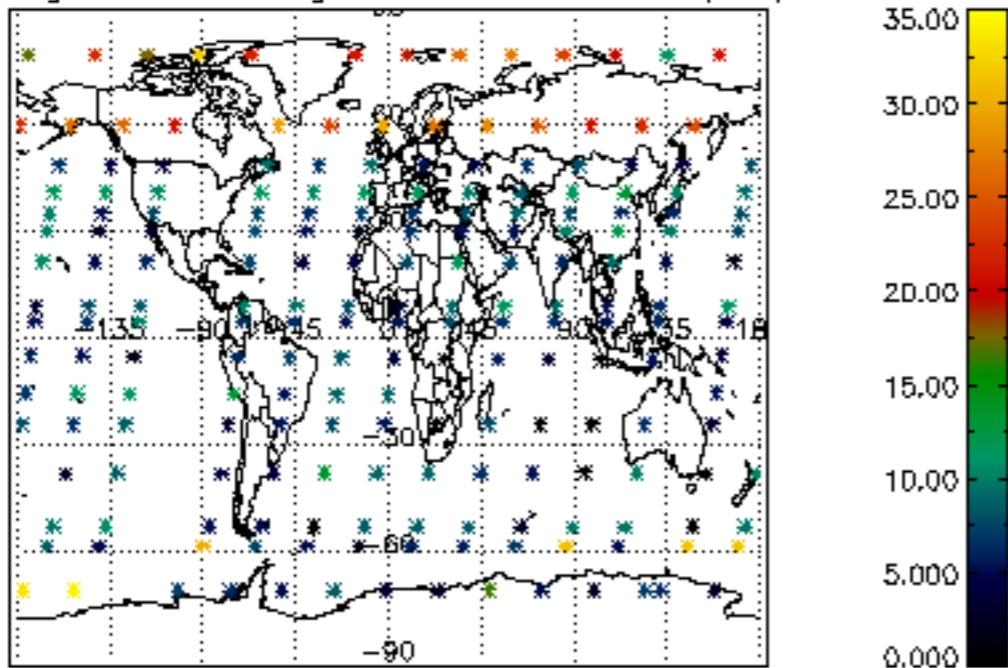
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

