

GOMOS Level 2 Daily Report

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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	26APR2013 13:25:24
Data source version	GOMOS/6.01
Start time of products	22-10-2009 (22OCT2009 00:00:00)
Stop time of products	23-10-2009 (23OCT2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	79
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

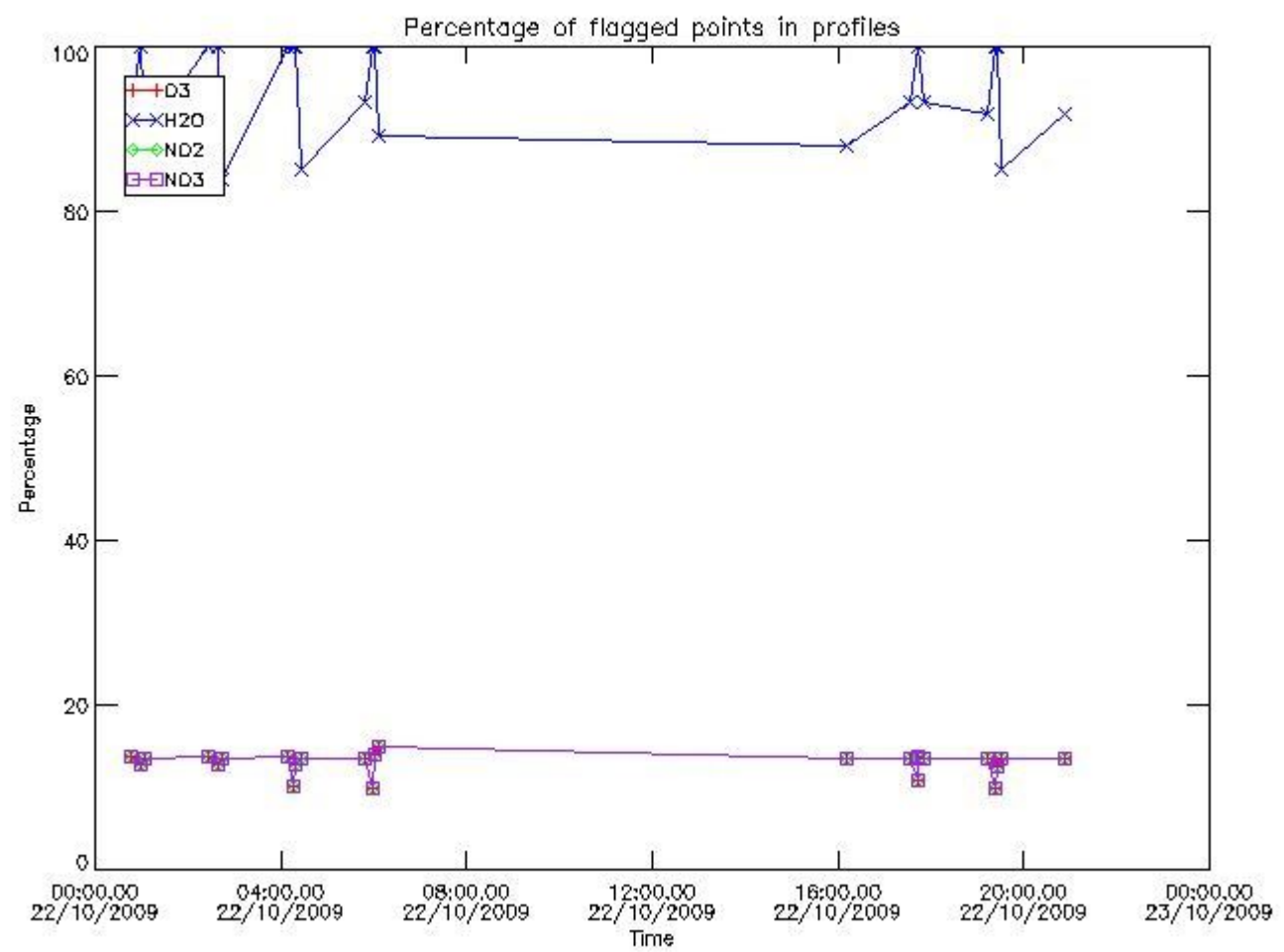
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20091022_000019_000000382083_00331_39964_5380.N1	22-OCT-2009 00:00:19	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	39964	No
2	GOM_NL__2PRFIN20091022_000216_000000372083_00331_39964_5381.N1	22-OCT-2009 00:02:16	Bright	36.500	73	57Gam1And	2.2600	13100.	73	39964	No
3	GOM_NL__2PRFIN20091022_000436_000000432083_00331_39964_5382.N1	22-OCT-2009 00:04:36	Bright	43.000	79	26Bet Per	2.3100	13100.	86	39964	No
4	GOM_NL__2PRFIN20091022_000720_000000392083_00331_39964_5383.N1	22-OCT-2009 00:07:20	Bright	38.500	160	23Gam Per	2.9300	4700.0	77	39964	No
5	GOM_NL__2PRFIN20091022_003440_000000322083_00331_39964_5384.N1	22-OCT-2009 00:34:40	Twilight	31.500	166	17Eps Leo	2.9800	6000.0	63	39964	No
6	GOM_NL__2PRFIN20091022_003805_000000302083_00331_39964_5385.N1	22-OCT-2009 00:38:05	Bright	30.000	22	32Alp Leo	1.3600	15200.	60	39964	No
7	GOM_NL__2PRFIN20091022_004605_000000372083_00331_39964_5386.N1	22-OCT-2009 00:46:05	Dark	37.000	48	30Alp Hya	1.9770	4100.0	74	39964	No
8	GOM_NL__2PRFIN20091022_005816_000000402083_00332_39965_5389.N1	22-OCT-2009 00:58:16	Dark	40.000	70	Zet Pup	2.2460	39000.	80	39965	No
9	GOM_NL__2PRFIN20091022_010427_000000382083_00332_39965_5390.N1	22-OCT-2009 01:04:27	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39965	No
10	GOM_NL__2PRFIN20091022_011544_000000342083_00332_39965_5391.N1	22-OCT-2009 01:15:44	Twilight	34.000	157	The1Eri	2.9060	9300.0	68	39965	No
11	GOM_NL__2PRFIN20091022_013607_000000372083_00332_39965_5392.N1	22-OCT-2009 01:36:07	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	39965	No
12	GOM_NL__2PRFIN20091022_014054_000000382083_00332_39965_5393.N1	22-OCT-2009 01:40:54	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	39965	No
13	GOM_NL__2PRFIN20091022_014252_000000372083_00332_39965_5394.N1	22-OCT-2009 01:42:52	Bright	37.000	73	57Gam1And	2.2600	13100.	74	39965	No
14	GOM_NL__2PRFIN20091022_014511_000000432083_00332_39965_5395.N1	22-OCT-2009 01:45:11	Bright	43.000	79	26Bet Per	2.3100	13100.	86	39965	No
15	GOM_NL__2PRFIN20091022_014755_000000392083_00332_39965_5396.N1	22-OCT-2009 01:47:55	Bright	38.500	160	23Gam Per	2.9300	4700.0	77	39965	No
16	GOM_NL__2PRFIN20091022_021516_000000322083_00332_39965_5397.N1	22-OCT-2009 02:15:16	Twilight	31.500	166	17Eps Leo	2.9800	6000.0	63	39965	No
17	GOM_NL__2PRFIN20091022_021842_000000302083_00332_39965_5398.N1	22-OCT-2009 02:18:42	Bright	30.000	22	32Alp Leo	1.3600	15200.	60	39965	No
18	GOM_NL__2PRFIN20091022_022642_000000372083_00332_39965_5399.N1	22-OCT-2009 02:26:42	Dark	37.000	48	30Alp Hya	1.9770	4100.0	74	39965	No
19	GOM_NL__2PRFIN20091022_023853_000000402083_00333_39966_5400.N1	22-OCT-2009 02:38:53	Dark	40.000	70	Zet Pup	2.2460	39000.	80	39966	No
20	GOM_NL__2PRFIN20091022_024504_000000382083_00333_39966_5401.N1	22-OCT-2009 02:45:04	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39966	No
21	GOM_NL__2PRFIN20091022_025620_000000342083_00333_39966_5402.N1	22-OCT-2009 02:56:20	Twilight	34.000	157	The1Eri	2.9060	9300.0	68	39966	No
22	GOM_NL__2PRFIN20091022_031643_000000372083_00333_39966_5403.N1	22-OCT-2009 03:16:43	Bright	36.500	105	6Bet Ari	2.6450	8900.0	73	39966	No
23	GOM_NL__2PRFIN20091022_032130_000000382083_00333_39966_5404.N1	22-OCT-2009 03:21:30	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	39966	No
24	GOM_NL__2PRFIN20091022_032327_000000372083_00333_39966_5405.N1	22-OCT-2009 03:23:27	Bright	36.500	73	57Gam1And	2.2600	13100.	73	39966	No
25	GOM_NL__2PRFIN20091022_032546_000000442083_00333_39966_5406.N1	22-OCT-2009 03:25:46	Bright	44.000	79	26Bet Per	2.3100	13100.	88	39966	No
26	GOM_NL__2PRFIN20091022_032830_000000382083_00333_39966_5407.N1	22-OCT-2009 03:28:30	Bright	38.000	160	23Gam Per	2.9300	4700.0	76	39966	No
27	GOM_NL__2PRFIN20091022_035552_000000322083_00333_39966_5408.N1	22-OCT-2009 03:55:52	Twilight	31.500	166	17Eps Leo	2.9800	6000.0	63	39966	No
28	GOM_NL__2PRFIN20091022_035918_000000302083_00333_39966_5409.N1	22-OCT-2009 03:59:18	Bright	30.000	22	32Alp Leo	1.3600	15200.	60	39966	No
29	GOM_NL__2PRFIN20091022_040719_000000372083_00333_39966_5410.N1	22-OCT-2009 04:07:19	Dark	37.000	48	30Alp Hya	1.9770	4100.0	74	39966	No
30	GOM_NL__2PRFIN20091022_041711_000000512083_00333_39966_5411.N1	22-OCT-2009 04:17:11	Dark	50.500	132	15Rho Pup	2.8030	6900.0	101	39966	No
31	GOM_NL__2PRFIN20091022_041930_000000402083_00334_39967_5411.N1	22-OCT-2009 04:19:30	Dark	40.000	70	Zet Pup	2.2460	39000.	80	39967	No
32	GOM_NL__2PRFIN20091022_042541_000000382083_00334_39967_5412.N1	22-OCT-2009 04:25:41	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39967	No
33	GOM_NL__2PRFIN20091022_043656_000000342083_00334_39967_5413.N1	22-OCT-2009 04:36:56	Twilight	34.000	157	The1Eri	2.9060	9300.0	68	39967	No
34	GOM_NL__2PRFIN20091022_045718_000000372083_00334_39967_5414.N1	22-OCT-2009 04:57:18	Bright	36.500	105	6Bet Ari	2.6450	8900.0	73	39967	No
35	GOM_NL__2PRFIN20091022_050205_000000382083_00334_39967_5415.N1	22-OCT-2009 05:02:05	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	39967	No
36	GOM_NL__2PRFIN20091022_050403_000000372083_00334_39967_5416.N1	22-OCT-2009 05:04:03	Bright	36.500	73	57Gam1And	2.2600	13100.	73	39967	No
37	GOM_NL__2PRFIN20091022_050621_000000452083_00334_39967_5417.N1	22-OCT-2009 05:06:21	Bright	44.500	79	26Bet Per	2.3100	13100.	89	39967	No
38	GOM_NL__2PRFIN20091022_050905_000000382083_00334_39967_5418.N1	22-OCT-2009 05:09:05	Bright	38.000	160	23Gam Per	2.9300	4700.0	76	39967	No
39	GOM_NL__2PRFIN20091022_053628_000000322083_00334_39967_5419.N1	22-OCT-2009 05:36:28	Twilight	32.000	166	17Eps Leo	2.9800	6000.0	64	39967	No
40	GOM_NL__2PRFIN20091022_053955_000000312083_00334_39967_5420.N1	22-OCT-2009 05:39:55	Bright	30.500	22	32Alp Leo	1.3600	15200.	61	39967	No
41	GOM_NL__2PRFIN20091022_054755_000000382083_00334_39967_5421.N1	22-OCT-2009 05:47:55	Dark	37.500	48	30Alp Hya	1.9770	4100.0	75	39967	No
42	GOM_NL__2PRFIN20091022_055749_000000512083_00334_39967_5422.N1	22-OCT-2009 05:57:49	Dark	51.000	132	15Rho Pup	2.8030	6900.0	102	39967	No

43	GOM_NL__2PRFIN20091022_060007_000000402083_00335_39968_5422.N1	22-OCT-2009 06:00:07	Dark	40.000	70	Zet Pup	2.2460	39000.	80	39968	No
44	GOM_NL__2PRFIN20091022_060618_000000382083_00335_39968_5423.N1	22-OCT-2009 06:06:18	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39968	No
45	GOM_NL__2PRFIN20091022_061733_000000342083_00335_39968_5424.N1	22-OCT-2009 06:17:33	Straylight	33.500	157	The1Eri	2.9060	9300.0	67	39968	No
46	GOM_NL__2PRFIN20091022_160958_000000382083_00341_39974_5561.N1	22-OCT-2009 16:09:58	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39974	No
47	GOM_NL__2PRFIN20091022_162111_000000342083_00341_39974_5562.N1	22-OCT-2009 16:21:11	Straylight	34.000	157	The1Eri	2.9060	9300.0	68	39974	No
48	GOM_NL__2PRFIN20091022_164127_000000362083_00341_39974_5563.N1	22-OCT-2009 16:41:27	Bright	36.000	105	6Bet Ari	2.6450	8900.0	72	39974	No
49	GOM_NL__2PRFIN20091022_164613_000000382083_00341_39974_5564.N1	22-OCT-2009 16:46:13	Bright	37.500	173	4Bet Tri	3.0040	8900.0	75	39974	No
50	GOM_NL__2PRFIN20091022_164811_000000372083_00341_39974_5565.N1	22-OCT-2009 16:48:11	Bright	36.500	73	57Gam1And	2.2600	13100.	73	39974	No
51	GOM_NL__2PRFIN20091022_165026_000000442083_00341_39974_5566.N1	22-OCT-2009 16:50:26	Bright	44.000	79	26Bet Per	2.3100	13100.	88	39974	No
52	GOM_NL__2PRFIN20091022_165312_000000392083_00341_39974_5567.N1	22-OCT-2009 16:53:12	Bright	38.500	160	23Gam Per	2.9300	4700.0	77	39974	No
53	GOM_NL__2PRFIN20091022_172042_000000322083_00341_39974_5568.N1	22-OCT-2009 17:20:42	Tw_i_and_stray	32.000	166	17Eps Leo	2.9800	6000.0	64	39974	No
54	GOM_NL__2PRFIN20091022_172409_000000312083_00341_39974_5569.N1	22-OCT-2009 17:24:09	Bright	30.500	22	32Alp Leo	1.3600	15200.	61	39974	No
55	GOM_NL__2PRFIN20091022_173213_000000382083_00341_39974_5570.N1	22-OCT-2009 17:32:13	Dark	37.500	48	30Alp Hya	1.9770	4100.0	75	39974	No
56	GOM_NL__2PRFIN20091022_174212_000000522083_00341_39974_5571.N1	22-OCT-2009 17:42:12	Dark	51.500	132	15Rho Pup	2.8030	6900.0	103	39974	No
57	GOM_NL__2PRFIN20091022_174426_000000412083_00342_39975_5603.N1	22-OCT-2009 17:44:26	Dark	40.500	70	Zet Pup	2.2460	39000.	81	39975	No
58	GOM_NL__2PRFIN20091022_175035_000000372083_00342_39975_5604.N1	22-OCT-2009 17:50:35	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39975	No
59	GOM_NL__2PRFIN20091022_180147_000000342083_00342_39975_5605.N1	22-OCT-2009 18:01:47	Straylight	34.000	157	The1Eri	2.9060	9300.0	68	39975	No
60	GOM_NL__2PRFIN20091022_182203_000000372083_00342_39975_5606.N1	22-OCT-2009 18:22:03	Bright	36.500	105	6Bet Ari	2.6450	8900.0	73	39975	No
61	GOM_NL__2PRFIN20091022_182648_000000382083_00342_39975_5607.N1	22-OCT-2009 18:26:48	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	39975	No
62	GOM_NL__2PRFIN20091022_182847_000000372083_00342_39975_5608.N1	22-OCT-2009 18:28:47	Bright	36.500	73	57Gam1And	2.2600	13100.	73	39975	No
63	GOM_NL__2PRFIN20091022_183101_000000442083_00342_39975_5609.N1	22-OCT-2009 18:31:01	Bright	44.000	79	26Bet Per	2.3100	13100.	88	39975	No
64	GOM_NL__2PRFIN20091022_183347_000000392083_00342_39975_5610.N1	22-OCT-2009 18:33:47	Bright	38.500	160	23Gam Per	2.9300	4700.0	77	39975	No
65	GOM_NL__2PRFIN20091022_190118_000000322083_00342_39975_5611.N1	22-OCT-2009 19:01:18	Tw_i_and_stray	32.000	166	17Eps Leo	2.9800	6000.0	64	39975	No
66	GOM_NL__2PRFIN20091022_190445_000000312083_00342_39975_5612.N1	22-OCT-2009 19:04:45	Bright	31.000	22	32Alp Leo	1.3600	15200.	62	39975	No
67	GOM_NL__2PRFIN20091022_191250_000000382083_00342_39975_5613.N1	22-OCT-2009 19:12:50	Dark	37.500	48	30Alp Hya	1.9770	4100.0	75	39975	No
68	GOM_NL__2PRFIN20091022_192249_000000522083_00342_39975_5614.N1	22-OCT-2009 19:22:49	Dark	52.000	132	15Rho Pup	2.8030	6900.0	104	39975	No
69	GOM_NL__2PRFIN20091022_192503_000000412083_00343_39976_5614.N1	22-OCT-2009 19:25:03	Dark	40.500	70	Zet Pup	2.2460	39000.	81	39976	No
70	GOM_NL__2PRFIN20091022_193112_000000372083_00343_39976_5615.N1	22-OCT-2009 19:31:12	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39976	No
71	GOM_NL__2PRFIN20091022_194224_000000342083_00343_39976_5616.N1	22-OCT-2009 19:42:24	Straylight	34.000	157	The1Eri	2.9060	9300.0	68	39976	No
72	GOM_NL__2PRFIN20091022_200239_000000372083_00343_39976_5617.N1	22-OCT-2009 20:02:39	Bright	36.500	105	6Bet Ari	2.6450	8900.0	73	39976	No
73	GOM_NL__2PRFIN20091022_200724_000000382083_00343_39976_5618.N1	22-OCT-2009 20:07:24	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	39976	No
74	GOM_NL__2PRFIN20091022_200922_000000372083_00343_39976_5619.N1	22-OCT-2009 20:09:22	Bright	37.000	73	57Gam1And	2.2600	13100.	74	39976	No
75	GOM_NL__2PRFIN20091022_201136_000000452083_00343_39976_5620.N1	22-OCT-2009 20:11:36	Bright	44.500	79	26Bet Per	2.3100	13100.	89	39976	No
76	GOM_NL__2PRFIN20091022_201423_000000392083_00343_39976_5621.N1	22-OCT-2009 20:14:23	Bright	39.000	160	23Gam Per	2.9300	4700.0	78	39976	No
77	GOM_NL__2PRFIN20091022_204155_000000322083_00343_39976_5622.N1	22-OCT-2009 20:41:55	Tw_i_and_stray	32.000	166	17Eps Leo	2.9800	6000.0	64	39976	No
78	GOM_NL__2PRFIN20091022_204522_000000302083_00343_39976_5623.N1	22-OCT-2009 20:45:22	Tw_i_and_stray	30.000	22	32Alp Leo	1.3600	15200.	60	39976	No
79	GOM_NL__2PRFIN20091022_205327_000000372083_00343_39976_5624.N1	22-OCT-2009 20:53:27	Dark	37.000	48	30Alp Hya	1.9770	4100.0	74	39976	No

3. Quality information per product

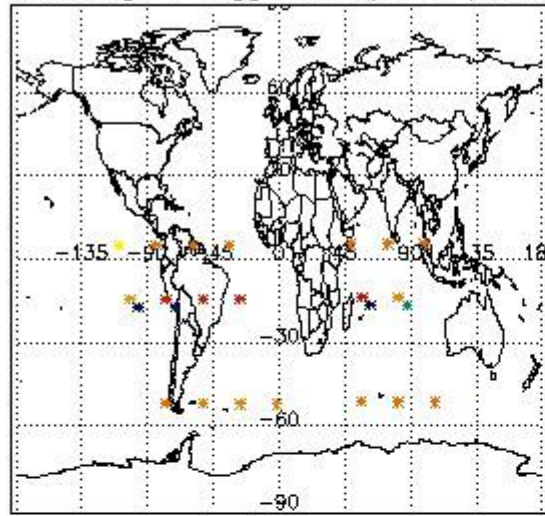
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

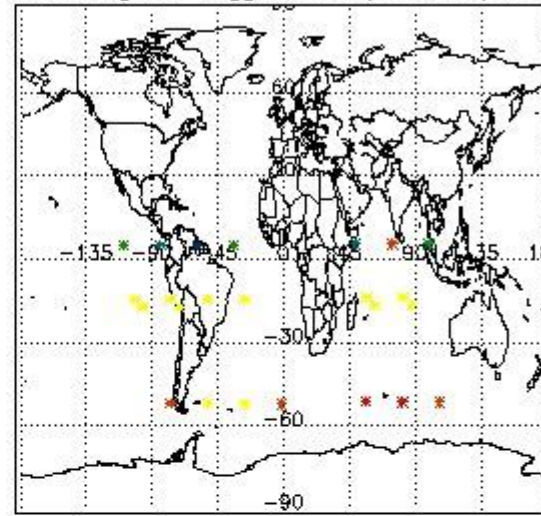


3.2 Plot quality information per product (world map)

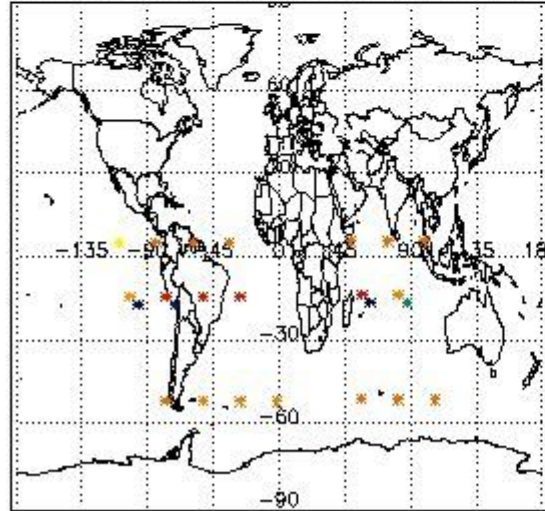
Percentage of flagged data per O3 profile



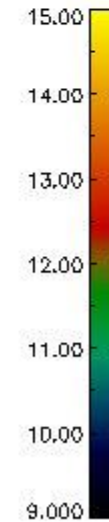
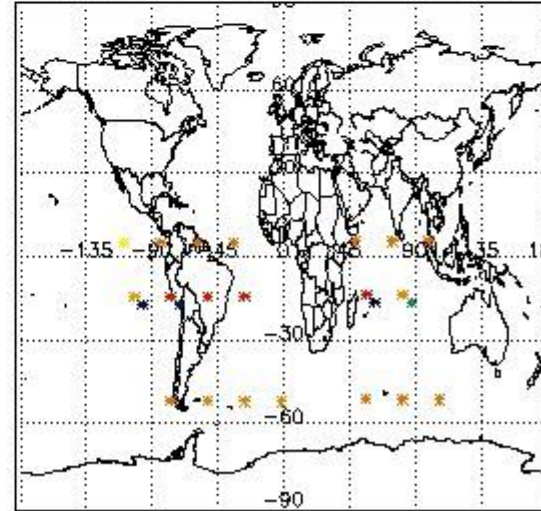
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

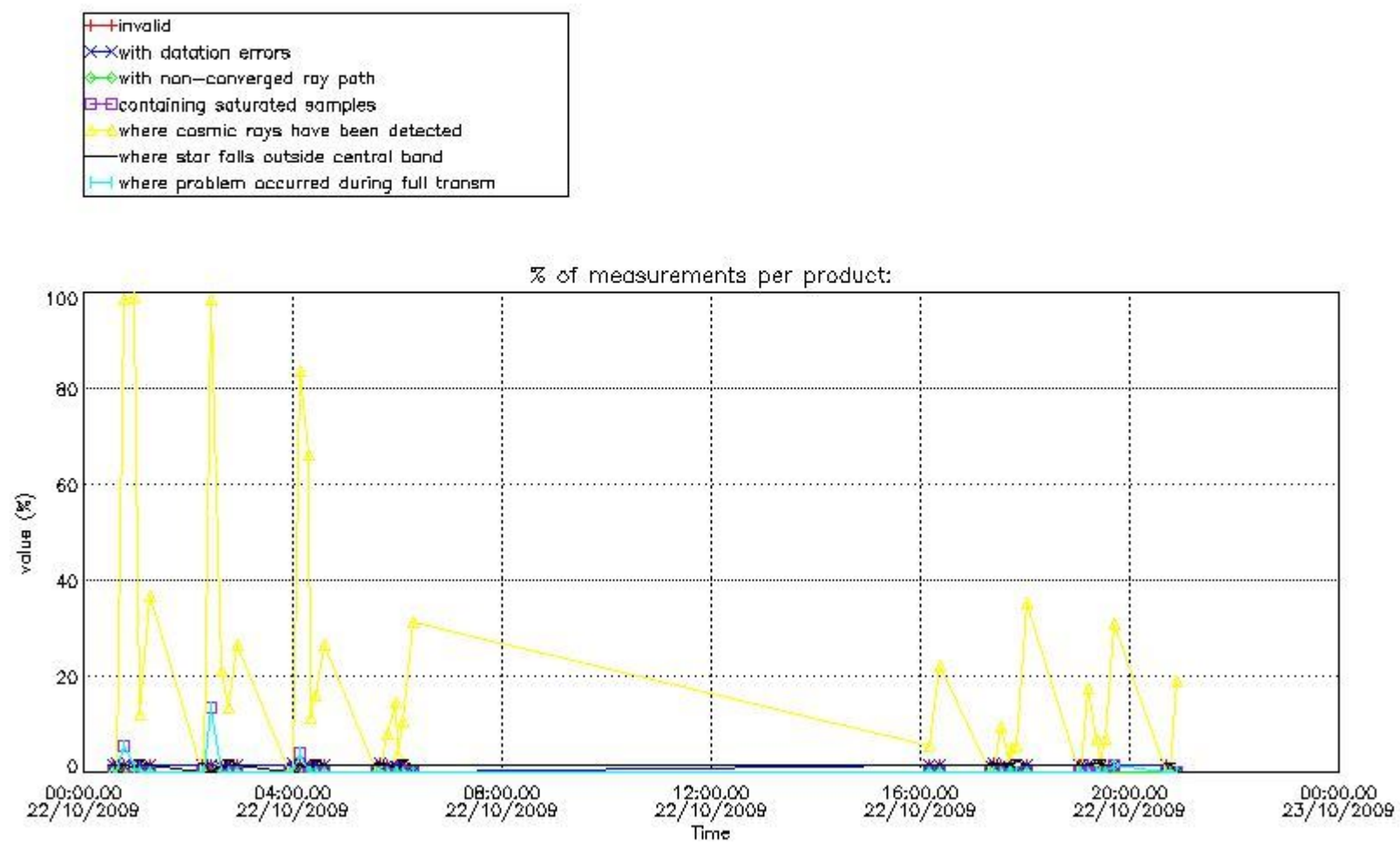


4. Level 1 quality information per product

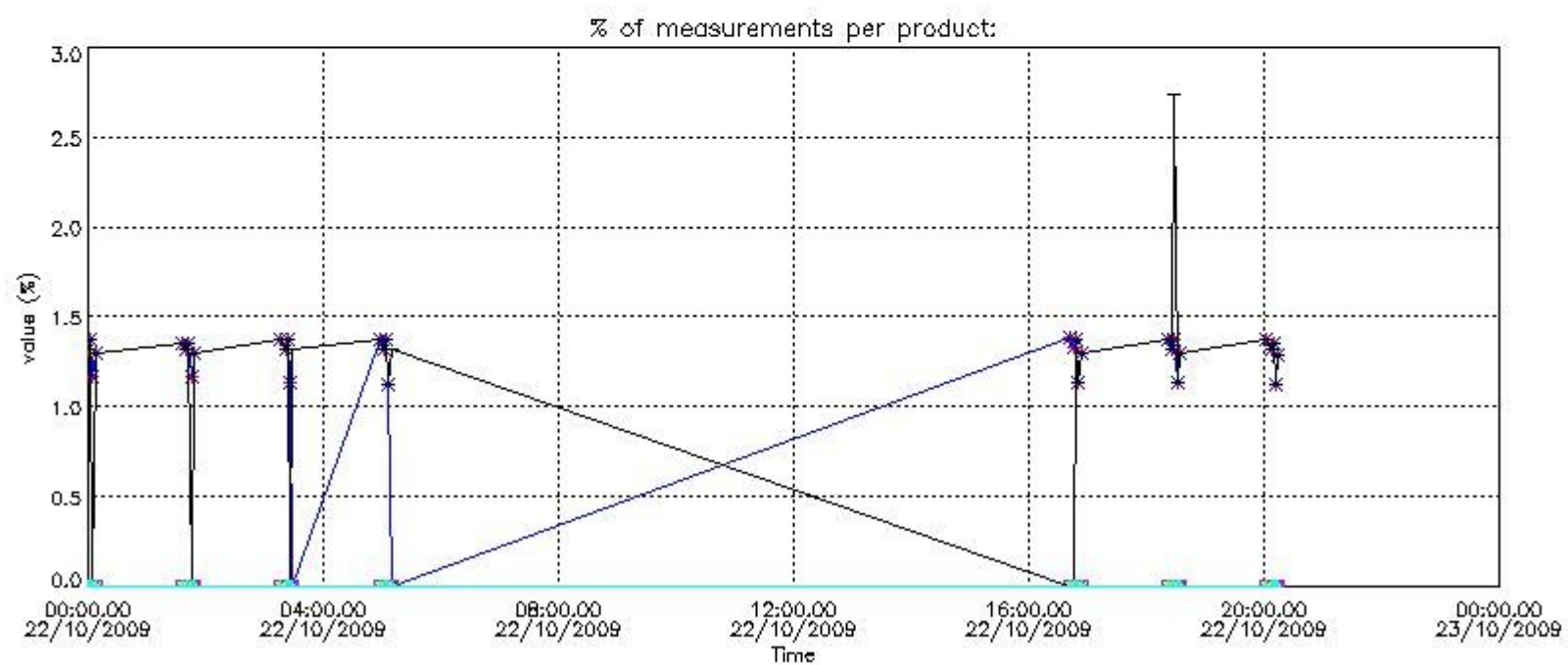
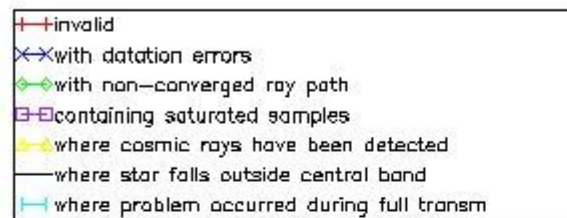
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



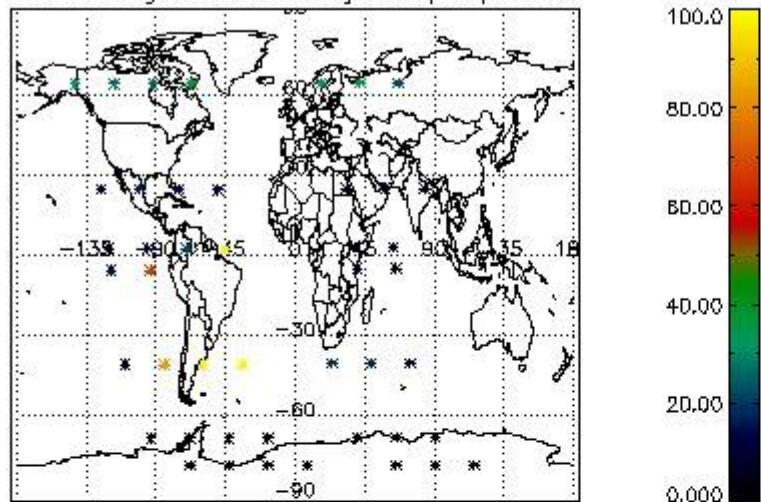
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



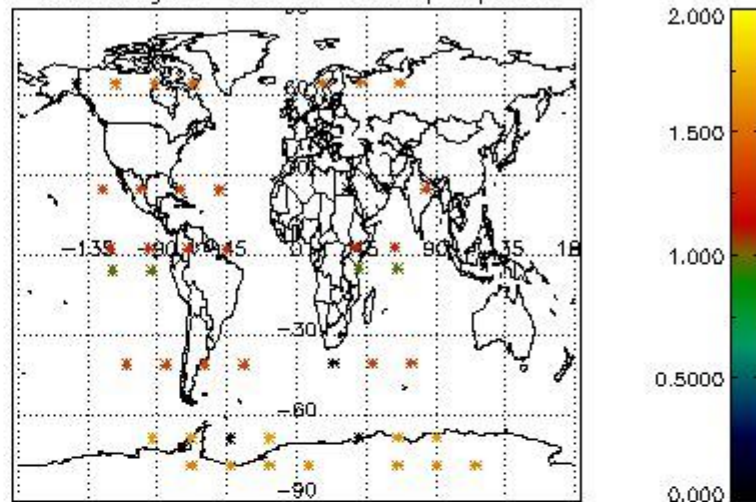
4.2 Plot quality information per product coming from level 1b processing (world map)

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

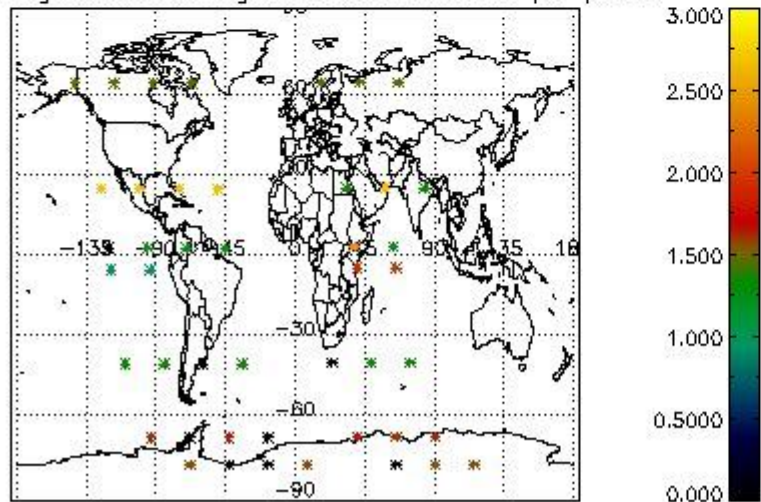
Percentage of cosmic ray hits per profile



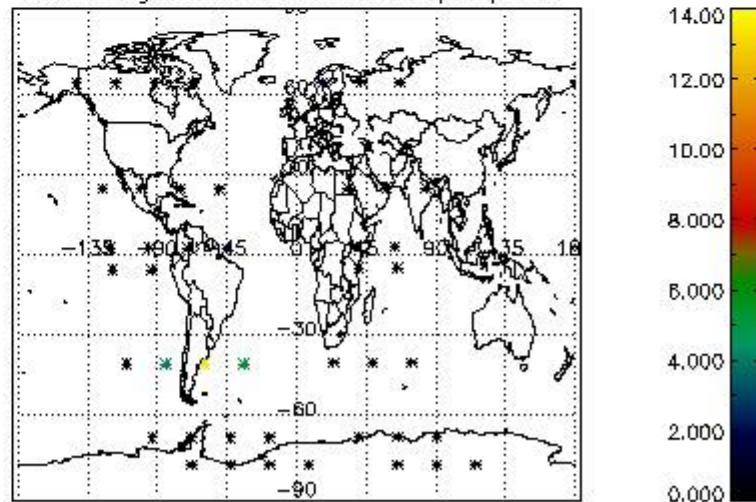
Percentage of datation errors per profile



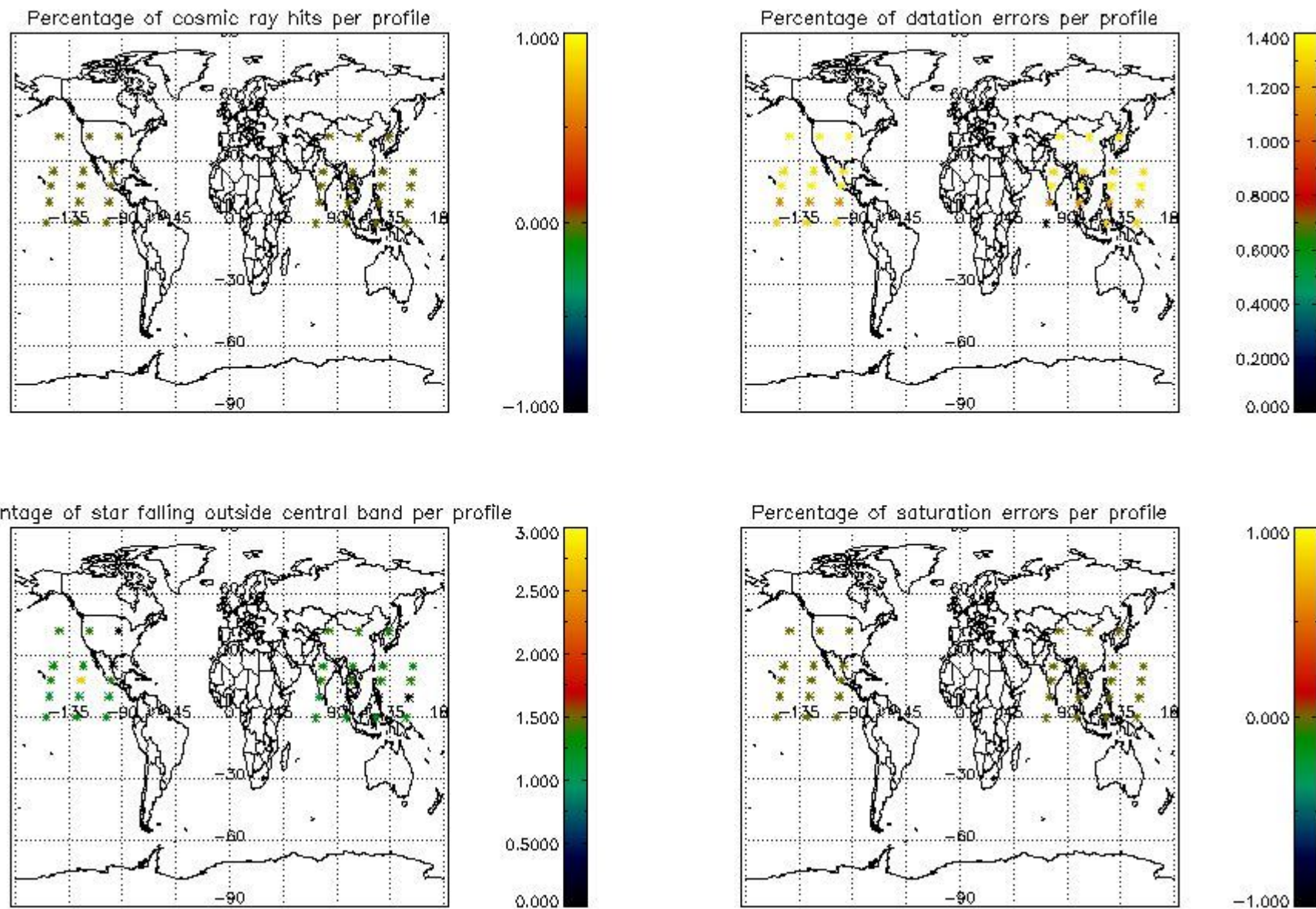
Percentage of star falling outside central band per profile



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

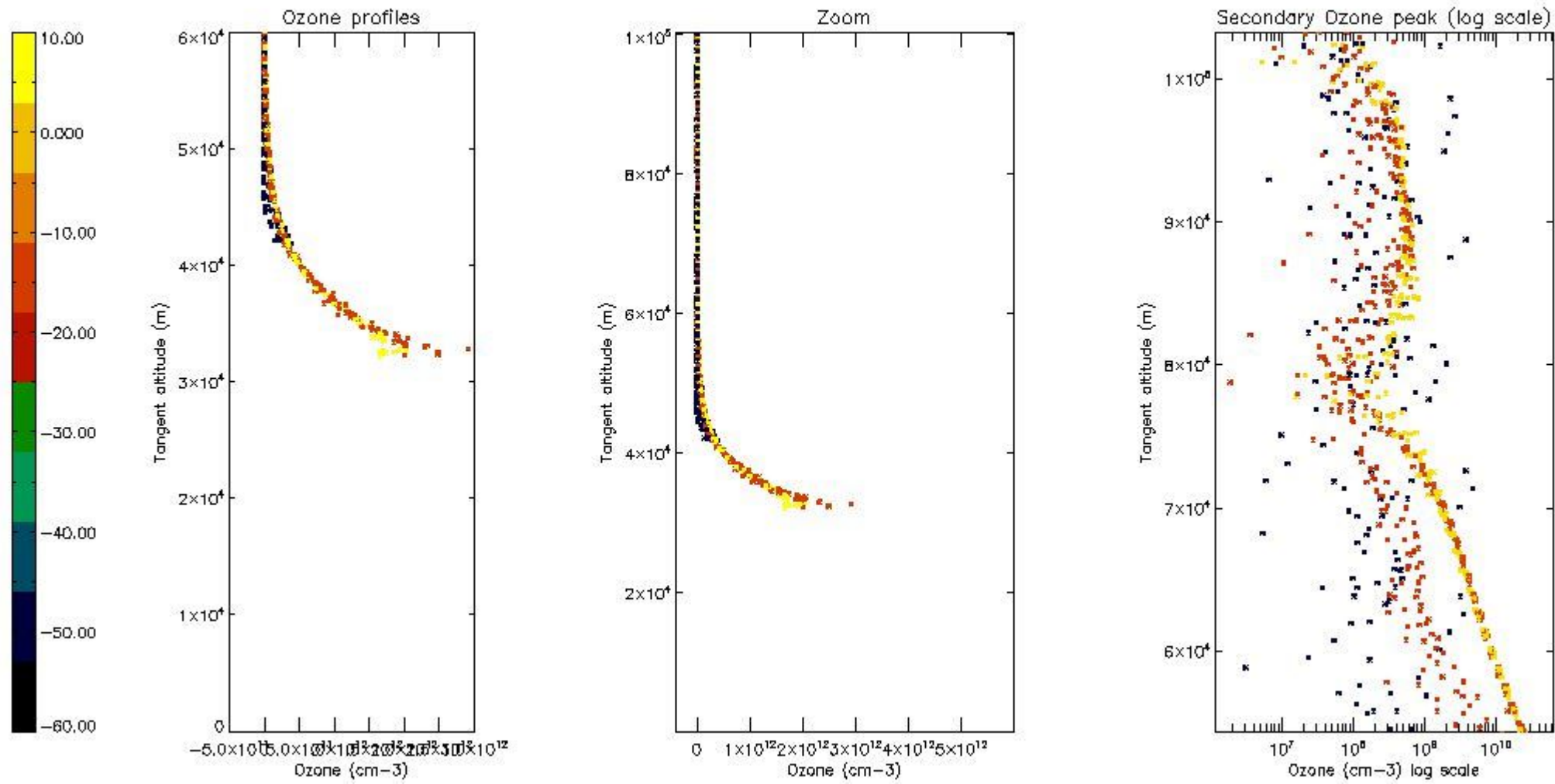
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	15

STD < 10	13
STD < 5	9

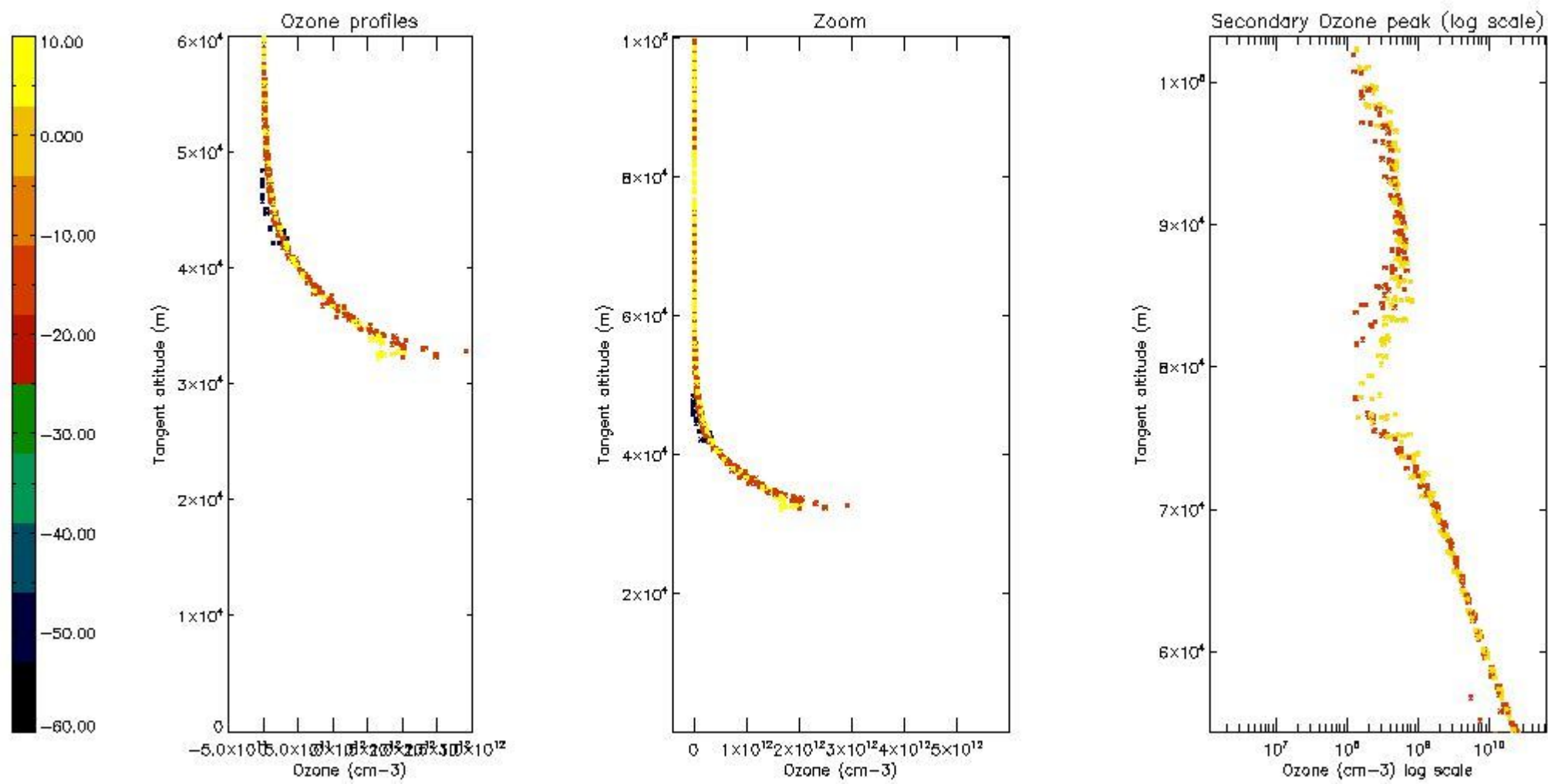
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



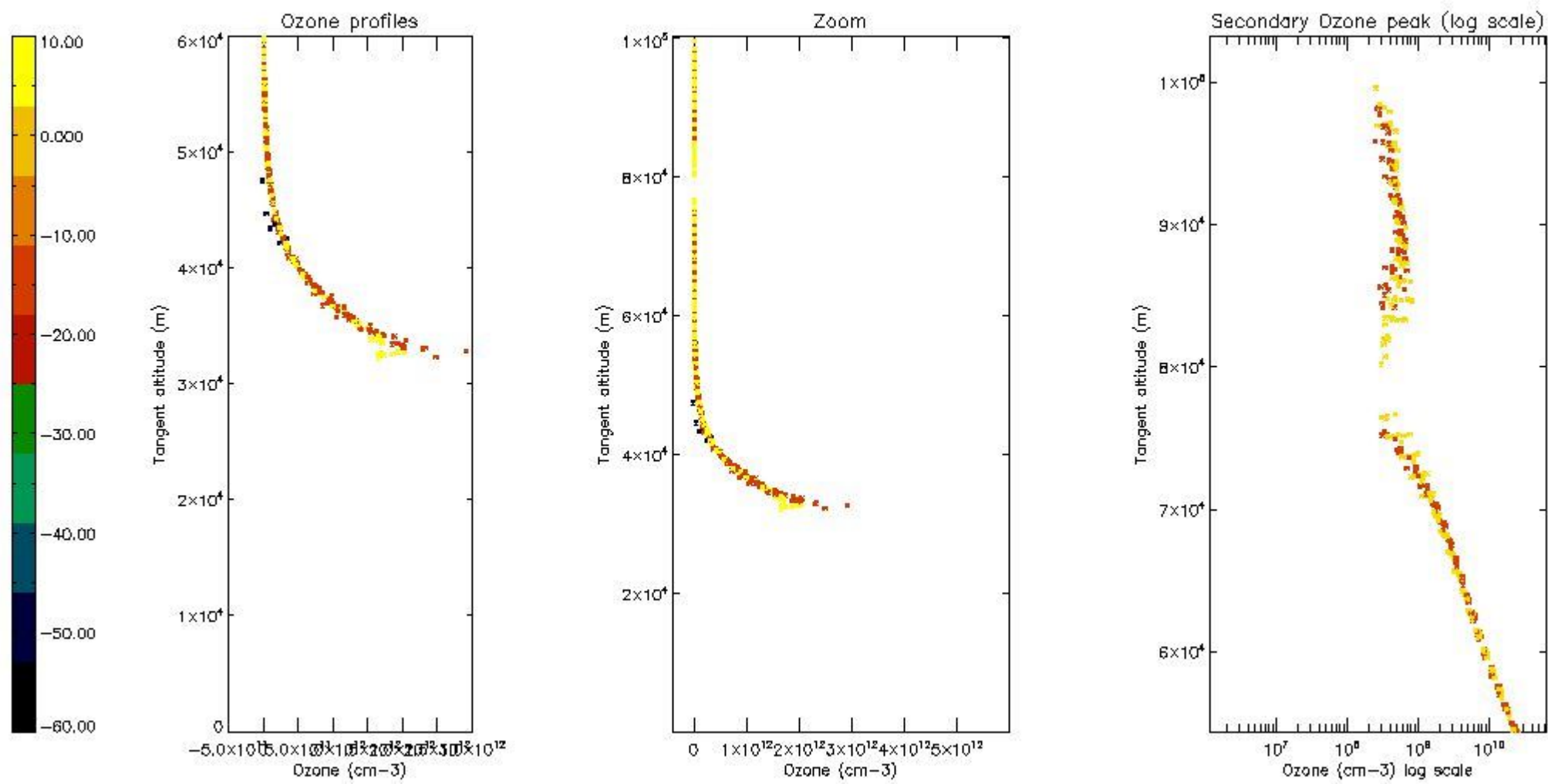
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



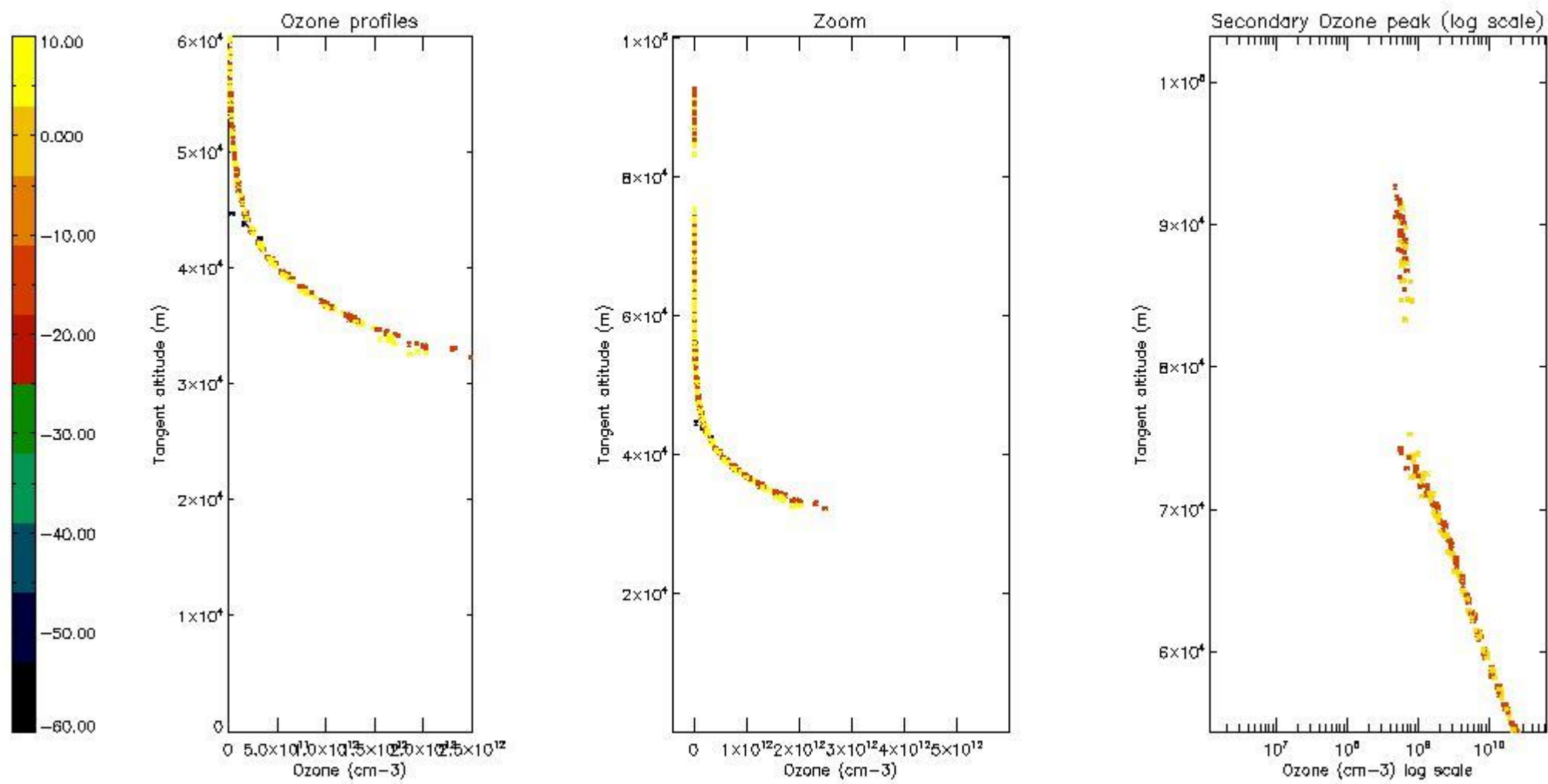
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



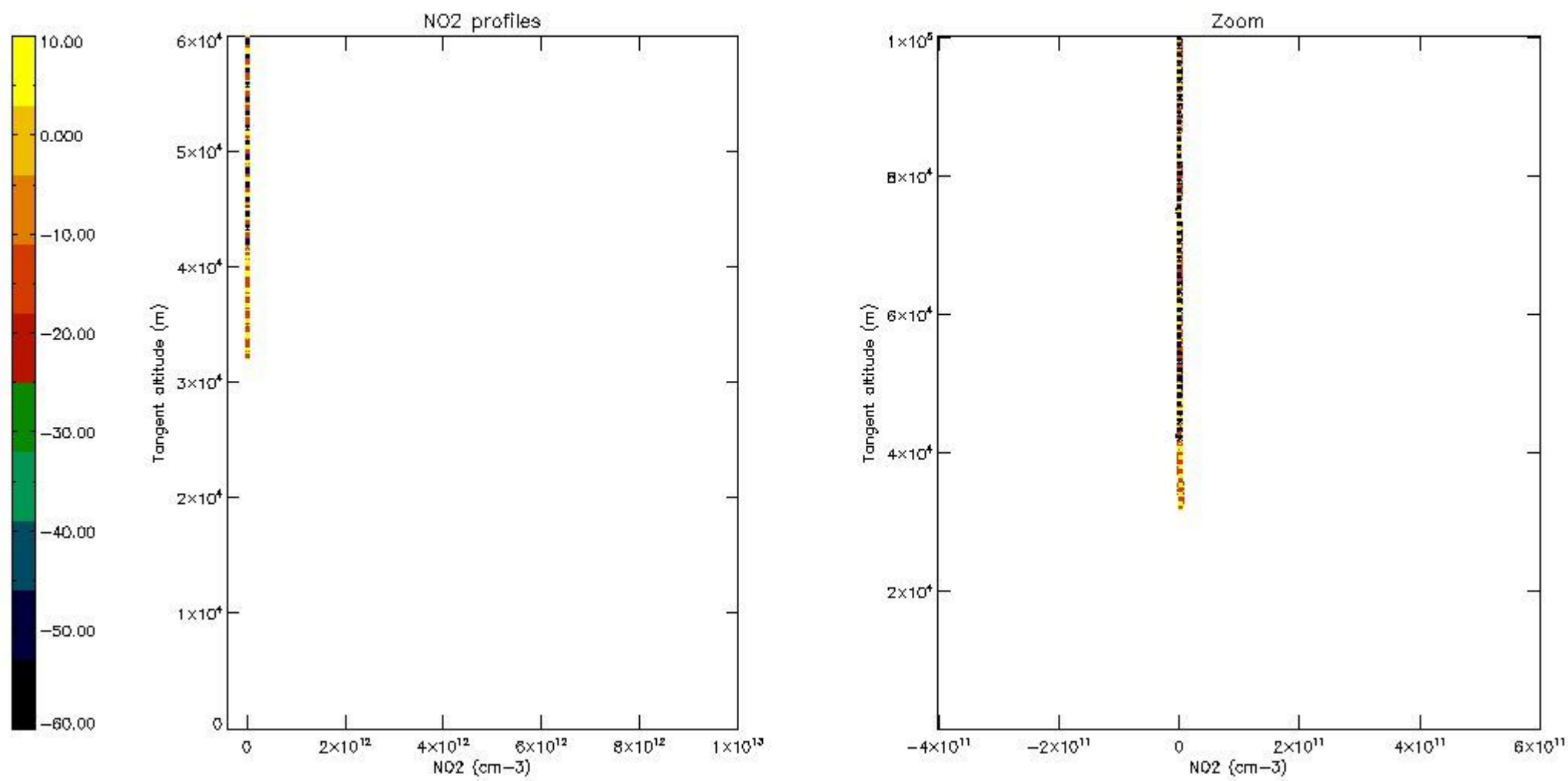
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



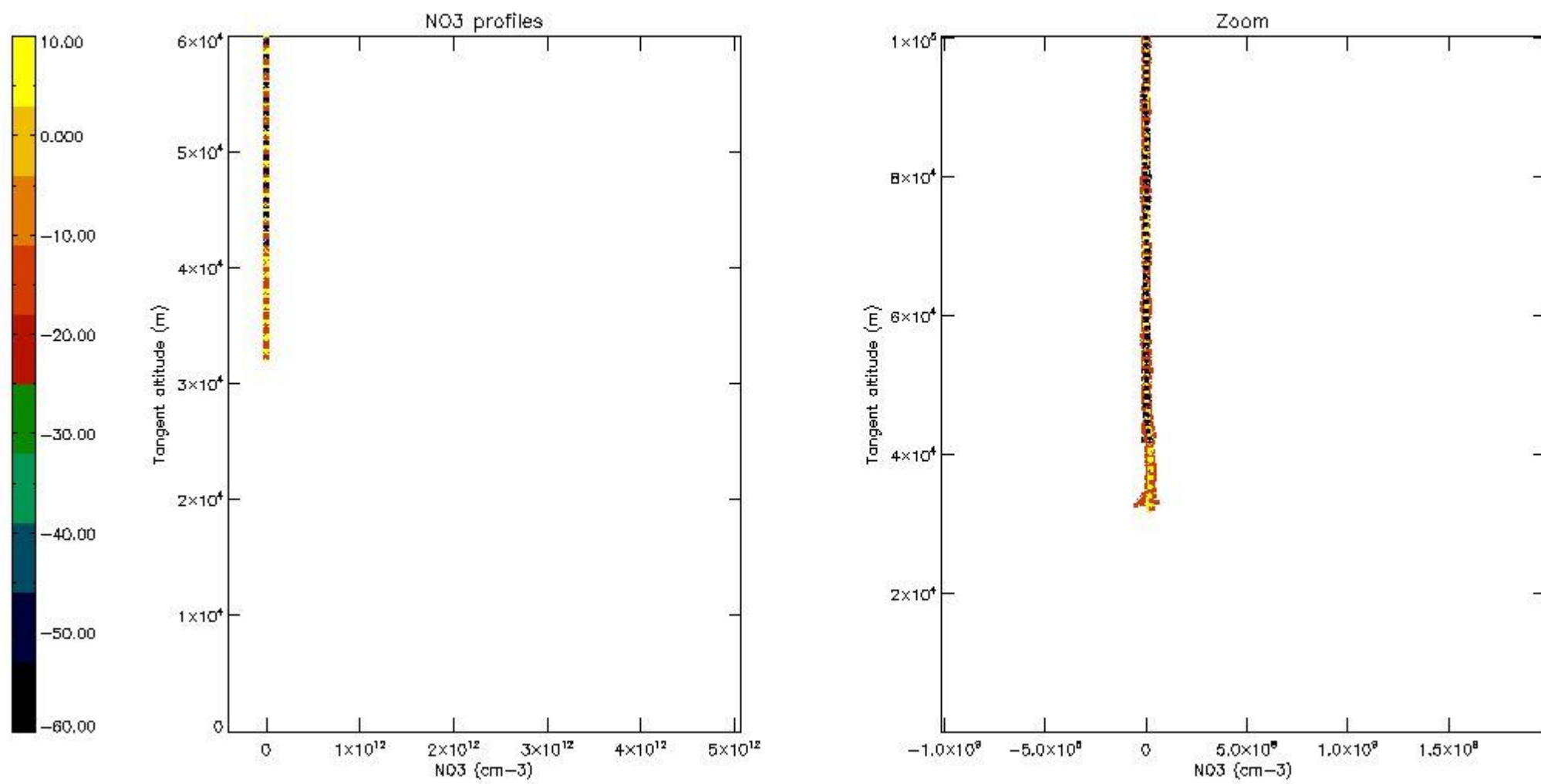
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



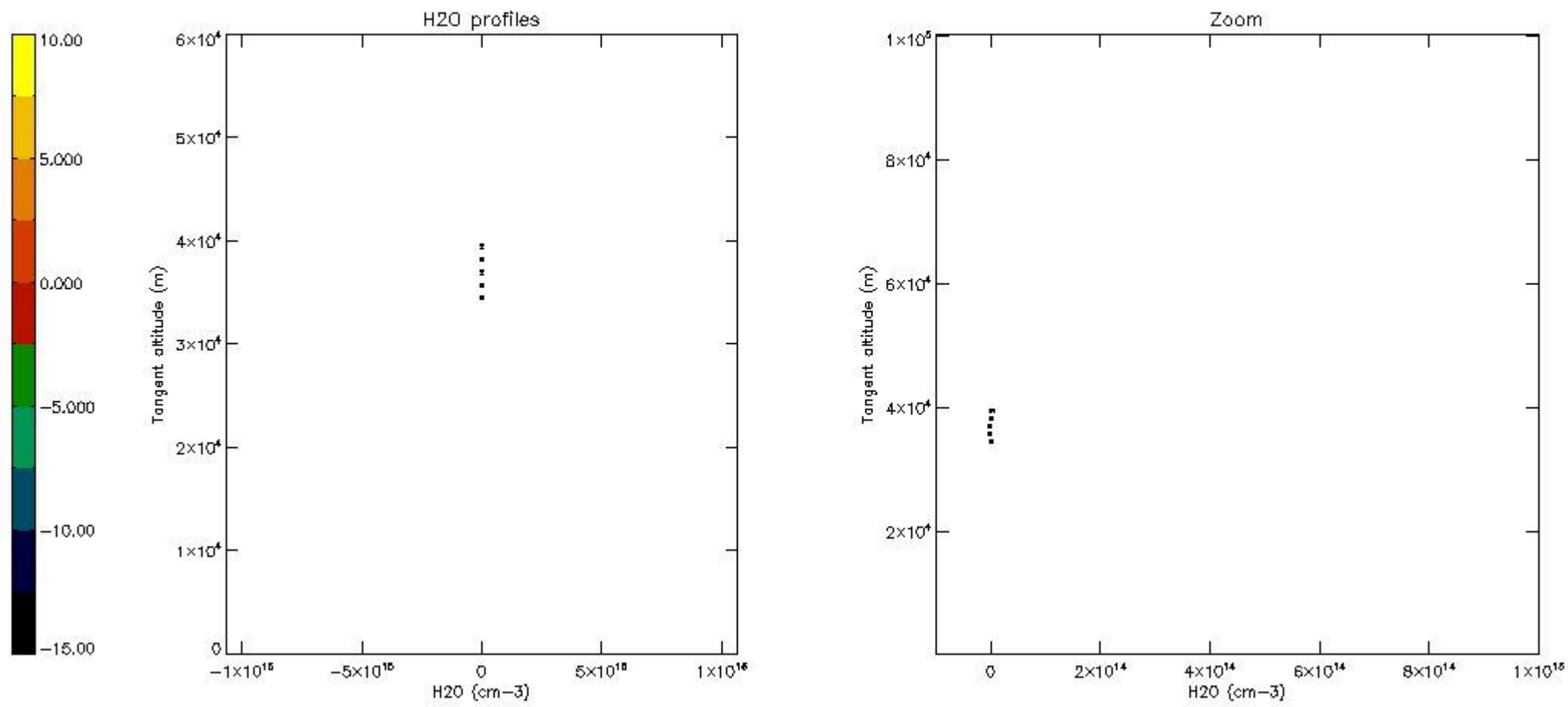
5.7 Plot NO3 profiles for all STD (dark without errors)

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	22-OCT-2009 00:00:19
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-OCT-2009 00:00:19
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-OCT-2009 00:00:19

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	26APR2013 13:25:24
Data source version	GOMOS/6.01
Start time of products	22-10-2009 (22OCT2009 00:00:00)
Stop time of products	23-10-2009 (23OCT2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	79
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

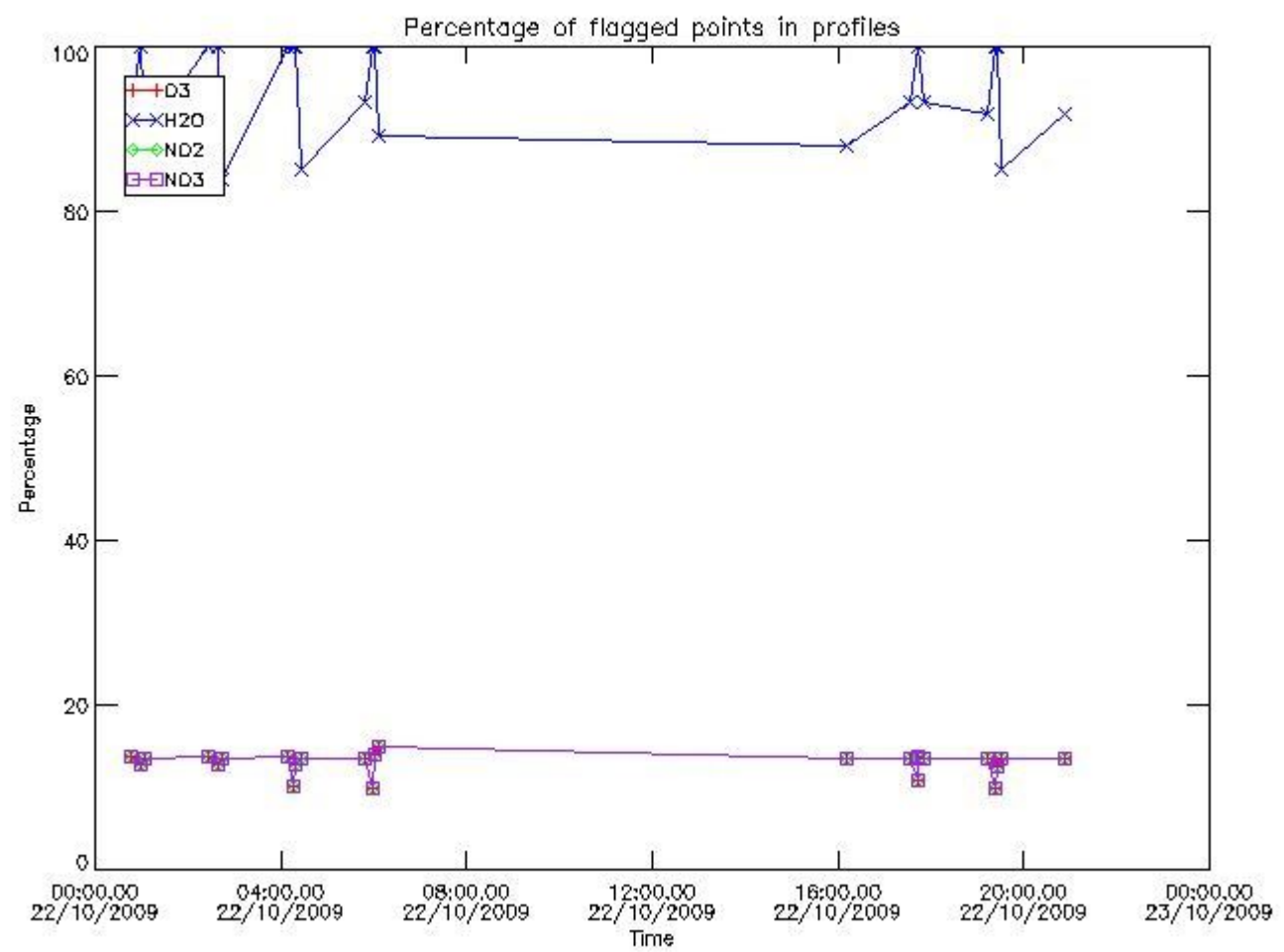
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20091022_000019_000000382083_00331_39964_5380.N1	22-OCT-2009 00:00:19	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	39964	No
2	GOM_NL__2PRFIN20091022_000216_000000372083_00331_39964_5381.N1	22-OCT-2009 00:02:16	Bright	36.500	73	57Gam1And	2.2600	13100.	73	39964	No
3	GOM_NL__2PRFIN20091022_000436_000000432083_00331_39964_5382.N1	22-OCT-2009 00:04:36	Bright	43.000	79	26Bet Per	2.3100	13100.	86	39964	No
4	GOM_NL__2PRFIN20091022_000720_000000392083_00331_39964_5383.N1	22-OCT-2009 00:07:20	Bright	38.500	160	23Gam Per	2.9300	4700.0	77	39964	No
5	GOM_NL__2PRFIN20091022_003440_000000322083_00331_39964_5384.N1	22-OCT-2009 00:34:40	Twilight	31.500	166	17Eps Leo	2.9800	6000.0	63	39964	No
6	GOM_NL__2PRFIN20091022_003805_000000302083_00331_39964_5385.N1	22-OCT-2009 00:38:05	Bright	30.000	22	32Alp Leo	1.3600	15200.	60	39964	No
7	GOM_NL__2PRFIN20091022_004605_000000372083_00331_39964_5386.N1	22-OCT-2009 00:46:05	Dark	37.000	48	30Alp Hya	1.9770	4100.0	74	39964	No
8	GOM_NL__2PRFIN20091022_005816_000000402083_00332_39965_5389.N1	22-OCT-2009 00:58:16	Dark	40.000	70	Zet Pup	2.2460	39000.	80	39965	No
9	GOM_NL__2PRFIN20091022_010427_000000382083_00332_39965_5390.N1	22-OCT-2009 01:04:27	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39965	No
10	GOM_NL__2PRFIN20091022_011544_000000342083_00332_39965_5391.N1	22-OCT-2009 01:15:44	Straylight	34.000	157	The1Eri	2.9060	9300.0	68	39965	No
11	GOM_NL__2PRFIN20091022_013607_000000372083_00332_39965_5392.N1	22-OCT-2009 01:36:07	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	39965	No
12	GOM_NL__2PRFIN20091022_014054_000000382083_00332_39965_5393.N1	22-OCT-2009 01:40:54	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	39965	No
13	GOM_NL__2PRFIN20091022_014252_000000372083_00332_39965_5394.N1	22-OCT-2009 01:42:52	Bright	37.000	73	57Gam1And	2.2600	13100.	74	39965	No
14	GOM_NL__2PRFIN20091022_014511_000000432083_00332_39965_5395.N1	22-OCT-2009 01:45:11	Bright	43.000	79	26Bet Per	2.3100	13100.	86	39965	No
15	GOM_NL__2PRFIN20091022_014755_000000392083_00332_39965_5396.N1	22-OCT-2009 01:47:55	Bright	38.500	160	23Gam Per	2.9300	4700.0	77	39965	No
16	GOM_NL__2PRFIN20091022_021516_000000322083_00332_39965_5397.N1	22-OCT-2009 02:15:16	Twilight	31.500	166	17Eps Leo	2.9800	6000.0	63	39965	No
17	GOM_NL__2PRFIN20091022_021842_000000302083_00332_39965_5398.N1	22-OCT-2009 02:18:42	Bright	30.000	22	32Alp Leo	1.3600	15200.	60	39965	No
18	GOM_NL__2PRFIN20091022_022642_000000372083_00332_39965_5399.N1	22-OCT-2009 02:26:42	Dark	37.000	48	30Alp Hya	1.9770	4100.0	74	39965	No
19	GOM_NL__2PRFIN20091022_023853_000000402083_00333_39966_5400.N1	22-OCT-2009 02:38:53	Dark	40.000	70	Zet Pup	2.2460	39000.	80	39966	No
20	GOM_NL__2PRFIN20091022_024504_000000382083_00333_39966_5401.N1	22-OCT-2009 02:45:04	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39966	No
21	GOM_NL__2PRFIN20091022_025620_000000342083_00333_39966_5402.N1	22-OCT-2009 02:56:20	Straylight	34.000	157	The1Eri	2.9060	9300.0	68	39966	No
22	GOM_NL__2PRFIN20091022_031643_000000372083_00333_39966_5403.N1	22-OCT-2009 03:16:43	Bright	36.500	105	6Bet Ari	2.6450	8900.0	73	39966	No
23	GOM_NL__2PRFIN20091022_032130_000000382083_00333_39966_5404.N1	22-OCT-2009 03:21:30	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	39966	No
24	GOM_NL__2PRFIN20091022_032327_000000372083_00333_39966_5405.N1	22-OCT-2009 03:23:27	Bright	36.500	73	57Gam1And	2.2600	13100.	73	39966	No
25	GOM_NL__2PRFIN20091022_032546_000000442083_00333_39966_5406.N1	22-OCT-2009 03:25:46	Bright	44.000	79	26Bet Per	2.3100	13100.	88	39966	No
26	GOM_NL__2PRFIN20091022_032830_000000382083_00333_39966_5407.N1	22-OCT-2009 03:28:30	Bright	38.000	160	23Gam Per	2.9300	4700.0	76	39966	No
27	GOM_NL__2PRFIN20091022_035552_000000322083_00333_39966_5408.N1	22-OCT-2009 03:55:52	Twilight	31.500	166	17Eps Leo	2.9800	6000.0	63	39966	No
28	GOM_NL__2PRFIN20091022_035918_000000302083_00333_39966_5409.N1	22-OCT-2009 03:59:18	Bright	30.000	22	32Alp Leo	1.3600	15200.	60	39966	No
29	GOM_NL__2PRFIN20091022_040719_000000372083_00333_39966_5410.N1	22-OCT-2009 04:07:19	Dark	37.000	48	30Alp Hya	1.9770	4100.0	74	39966	No
30	GOM_NL__2PRFIN20091022_041711_000000512083_00333_39966_5411.N1	22-OCT-2009 04:17:11	Dark	50.500	132	15Rho Pup	2.8030	6900.0	101	39966	No
31	GOM_NL__2PRFIN20091022_041930_000000402083_00334_39967_5411.N1	22-OCT-2009 04:19:30	Dark	40.000	70	Zet Pup	2.2460	39000.	80	39967	No
32	GOM_NL__2PRFIN20091022_042541_000000382083_00334_39967_5412.N1	22-OCT-2009 04:25:41	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39967	No
33	GOM_NL__2PRFIN20091022_043656_000000342083_00334_39967_5413.N1	22-OCT-2009 04:36:56	Straylight	34.000	157	The1Eri	2.9060	9300.0	68	39967	No
34	GOM_NL__2PRFIN20091022_045718_000000372083_00334_39967_5414.N1	22-OCT-2009 04:57:18	Bright	36.500	105	6Bet Ari	2.6450	8900.0	73	39967	No
35	GOM_NL__2PRFIN20091022_050205_000000382083_00334_39967_5415.N1	22-OCT-2009 05:02:05	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	39967	No
36	GOM_NL__2PRFIN20091022_050403_000000372083_00334_39967_5416.N1	22-OCT-2009 05:04:03	Bright	36.500	73	57Gam1And	2.2600	13100.	73	39967	No
37	GOM_NL__2PRFIN20091022_050621_000000452083_00334_39967_5417.N1	22-OCT-2009 05:06:21	Bright	44.500	79	26Bet Per	2.3100	13100.	89	39967	No
38	GOM_NL__2PRFIN20091022_050905_000000382083_00334_39967_5418.N1	22-OCT-2009 05:09:05	Bright	38.000	160	23Gam Per	2.9300	4700.0	76	39967	No
39	GOM_NL__2PRFIN20091022_053628_000000322083_00334_39967_5419.N1	22-OCT-2009 05:36:28	Twilight	32.000	166	17Eps Leo	2.9800	6000.0	64	39967	No
40	GOM_NL__2PRFIN20091022_053955_000000312083_00334_39967_5420.N1	22-OCT-2009 05:39:55	Bright	30.500	22	32Alp Leo	1.3600	15200.	61	39967	No
41	GOM_NL__2PRFIN20091022_054755_000000382083_00334_39967_5421.N1	22-OCT-2009 05:47:55	Dark	37.500	48	30Alp Hya	1.9770	4100.0	75	39967	No
42	GOM_NL__2PRFIN20091022_055749_000000512083_00334_39967_5422.N1	22-OCT-2009 05:57:49	Dark	51.000	132	15Rho Pup	2.8030	6900.0	102	39967	No

43	GOM_NL__2PRFIN20091022_060007_000000402083_00335_39968_5422.N1	22-OCT-2009 06:00:07	Dark	40.000	70	Zet Pup	2.2460	39000.	80	39968	No
44	GOM_NL__2PRFIN20091022_060618_000000382083_00335_39968_5423.N1	22-OCT-2009 06:06:18	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39968	No
45	GOM_NL__2PRFIN20091022_061733_000000342083_00335_39968_5424.N1	22-OCT-2009 06:17:33	Straylight	33.500	157	The1Eri	2.9060	9300.0	67	39968	No
46	GOM_NL__2PRFIN20091022_160958_000000382083_00341_39974_5561.N1	22-OCT-2009 16:09:58	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39974	No
47	GOM_NL__2PRFIN20091022_162111_000000342083_00341_39974_5562.N1	22-OCT-2009 16:21:11	Straylight	34.000	157	The1Eri	2.9060	9300.0	68	39974	No
48	GOM_NL__2PRFIN20091022_164127_000000362083_00341_39974_5563.N1	22-OCT-2009 16:41:27	Bright	36.000	105	6Bet Ari	2.6450	8900.0	72	39974	No
49	GOM_NL__2PRFIN20091022_164613_000000382083_00341_39974_5564.N1	22-OCT-2009 16:46:13	Bright	37.500	173	4Bet Tri	3.0040	8900.0	75	39974	No
50	GOM_NL__2PRFIN20091022_164811_000000372083_00341_39974_5565.N1	22-OCT-2009 16:48:11	Bright	36.500	73	57Gam1And	2.2600	13100.	73	39974	No
51	GOM_NL__2PRFIN20091022_165026_000000442083_00341_39974_5566.N1	22-OCT-2009 16:50:26	Bright	44.000	79	26Bet Per	2.3100	13100.	88	39974	No
52	GOM_NL__2PRFIN20091022_165312_000000392083_00341_39974_5567.N1	22-OCT-2009 16:53:12	Bright	38.500	160	23Gam Per	2.9300	4700.0	77	39974	No
53	GOM_NL__2PRFIN20091022_172042_000000322083_00341_39974_5568.N1	22-OCT-2009 17:20:42	Tw_i_and_stray	32.000	166	17Eps Leo	2.9800	6000.0	64	39974	No
54	GOM_NL__2PRFIN20091022_172409_000000312083_00341_39974_5569.N1	22-OCT-2009 17:24:09	Bright	30.500	22	32Alp Leo	1.3600	15200.	61	39974	No
55	GOM_NL__2PRFIN20091022_173213_000000382083_00341_39974_5570.N1	22-OCT-2009 17:32:13	Dark	37.500	48	30Alp Hya	1.9770	4100.0	75	39974	No
56	GOM_NL__2PRFIN20091022_174212_000000522083_00341_39974_5571.N1	22-OCT-2009 17:42:12	Dark	51.500	132	15Rho Pup	2.8030	6900.0	103	39974	No
57	GOM_NL__2PRFIN20091022_174426_000000412083_00342_39975_5603.N1	22-OCT-2009 17:44:26	Dark	40.500	70	Zet Pup	2.2460	39000.	81	39975	No
58	GOM_NL__2PRFIN20091022_175035_000000372083_00342_39975_5604.N1	22-OCT-2009 17:50:35	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39975	No
59	GOM_NL__2PRFIN20091022_180147_000000342083_00342_39975_5605.N1	22-OCT-2009 18:01:47	Straylight	34.000	157	The1Eri	2.9060	9300.0	68	39975	No
60	GOM_NL__2PRFIN20091022_182203_000000372083_00342_39975_5606.N1	22-OCT-2009 18:22:03	Bright	36.500	105	6Bet Ari	2.6450	8900.0	73	39975	No
61	GOM_NL__2PRFIN20091022_182648_000000382083_00342_39975_5607.N1	22-OCT-2009 18:26:48	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	39975	No
62	GOM_NL__2PRFIN20091022_182847_000000372083_00342_39975_5608.N1	22-OCT-2009 18:28:47	Bright	36.500	73	57Gam1And	2.2600	13100.	73	39975	No
63	GOM_NL__2PRFIN20091022_183101_000000442083_00342_39975_5609.N1	22-OCT-2009 18:31:01	Bright	44.000	79	26Bet Per	2.3100	13100.	88	39975	No
64	GOM_NL__2PRFIN20091022_183347_000000392083_00342_39975_5610.N1	22-OCT-2009 18:33:47	Bright	38.500	160	23Gam Per	2.9300	4700.0	77	39975	No
65	GOM_NL__2PRFIN20091022_190118_000000322083_00342_39975_5611.N1	22-OCT-2009 19:01:18	Tw_i_and_stray	32.000	166	17Eps Leo	2.9800	6000.0	64	39975	No
66	GOM_NL__2PRFIN20091022_190445_000000312083_00342_39975_5612.N1	22-OCT-2009 19:04:45	Bright	31.000	22	32Alp Leo	1.3600	15200.	62	39975	No
67	GOM_NL__2PRFIN20091022_191250_000000382083_00342_39975_5613.N1	22-OCT-2009 19:12:50	Dark	37.500	48	30Alp Hya	1.9770	4100.0	75	39975	No
68	GOM_NL__2PRFIN20091022_192249_000000522083_00342_39975_5614.N1	22-OCT-2009 19:22:49	Dark	52.000	132	15Rho Pup	2.8030	6900.0	104	39975	No
69	GOM_NL__2PRFIN20091022_192503_000000412083_00343_39976_5614.N1	22-OCT-2009 19:25:03	Dark	40.500	70	Zet Pup	2.2460	39000.	81	39976	No
70	GOM_NL__2PRFIN20091022_193112_000000372083_00343_39976_5615.N1	22-OCT-2009 19:31:12	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39976	No
71	GOM_NL__2PRFIN20091022_194224_000000342083_00343_39976_5616.N1	22-OCT-2009 19:42:24	Straylight	34.000	157	The1Eri	2.9060	9300.0	68	39976	No
72	GOM_NL__2PRFIN20091022_200239_000000372083_00343_39976_5617.N1	22-OCT-2009 20:02:39	Bright	36.500	105	6Bet Ari	2.6450	8900.0	73	39976	No
73	GOM_NL__2PRFIN20091022_200724_000000382083_00343_39976_5618.N1	22-OCT-2009 20:07:24	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	39976	No
74	GOM_NL__2PRFIN20091022_200922_000000372083_00343_39976_5619.N1	22-OCT-2009 20:09:22	Bright	37.000	73	57Gam1And	2.2600	13100.	74	39976	No
75	GOM_NL__2PRFIN20091022_201136_000000452083_00343_39976_5620.N1	22-OCT-2009 20:11:36	Bright	44.500	79	26Bet Per	2.3100	13100.	89	39976	No
76	GOM_NL__2PRFIN20091022_201423_000000392083_00343_39976_5621.N1	22-OCT-2009 20:14:23	Bright	39.000	160	23Gam Per	2.9300	4700.0	78	39976	No
77	GOM_NL__2PRFIN20091022_204155_000000322083_00343_39976_5622.N1	22-OCT-2009 20:41:55	Tw_i_and_stray	32.000	166	17Eps Leo	2.9800	6000.0	64	39976	No
78	GOM_NL__2PRFIN20091022_204522_000000302083_00343_39976_5623.N1	22-OCT-2009 20:45:22	Tw_i_and_stray	30.000	22	32Alp Leo	1.3600	15200.	60	39976	No
79	GOM_NL__2PRFIN20091022_205327_000000372083_00343_39976_5624.N1	22-OCT-2009 20:53:27	Dark	37.000	48	30Alp Hya	1.9770	4100.0	74	39976	No

3. Quality information per product

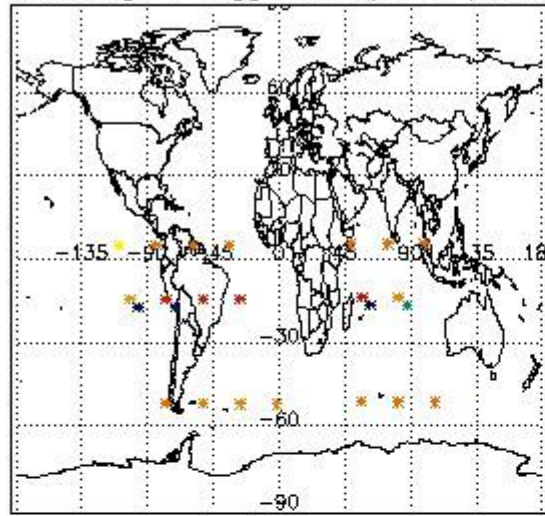
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

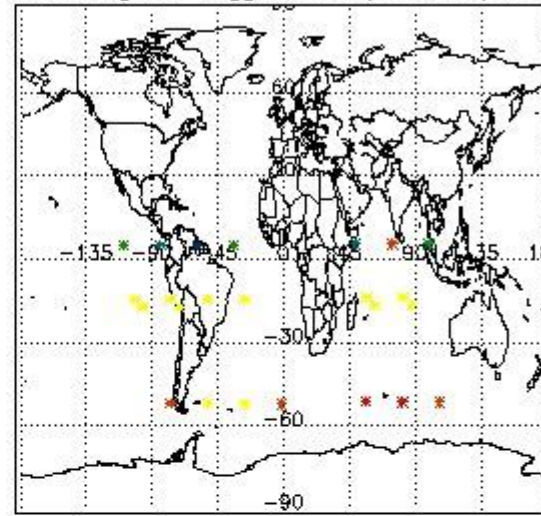


3.2 Plot quality information per product (world map)

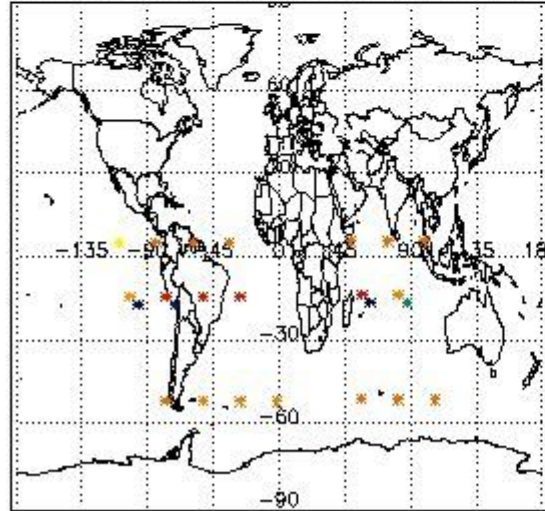
Percentage of flagged data per O3 profile



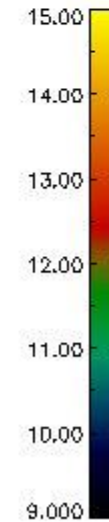
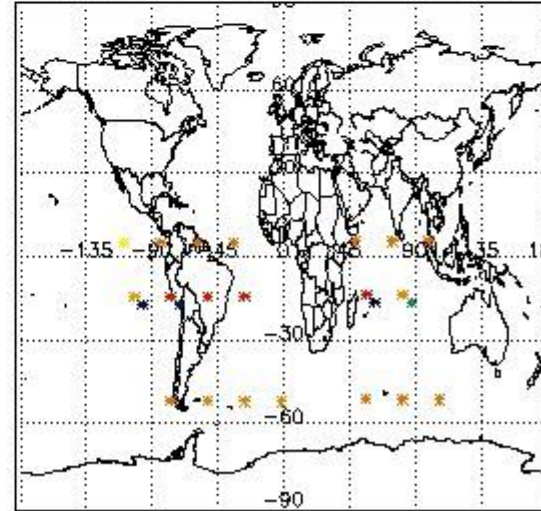
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

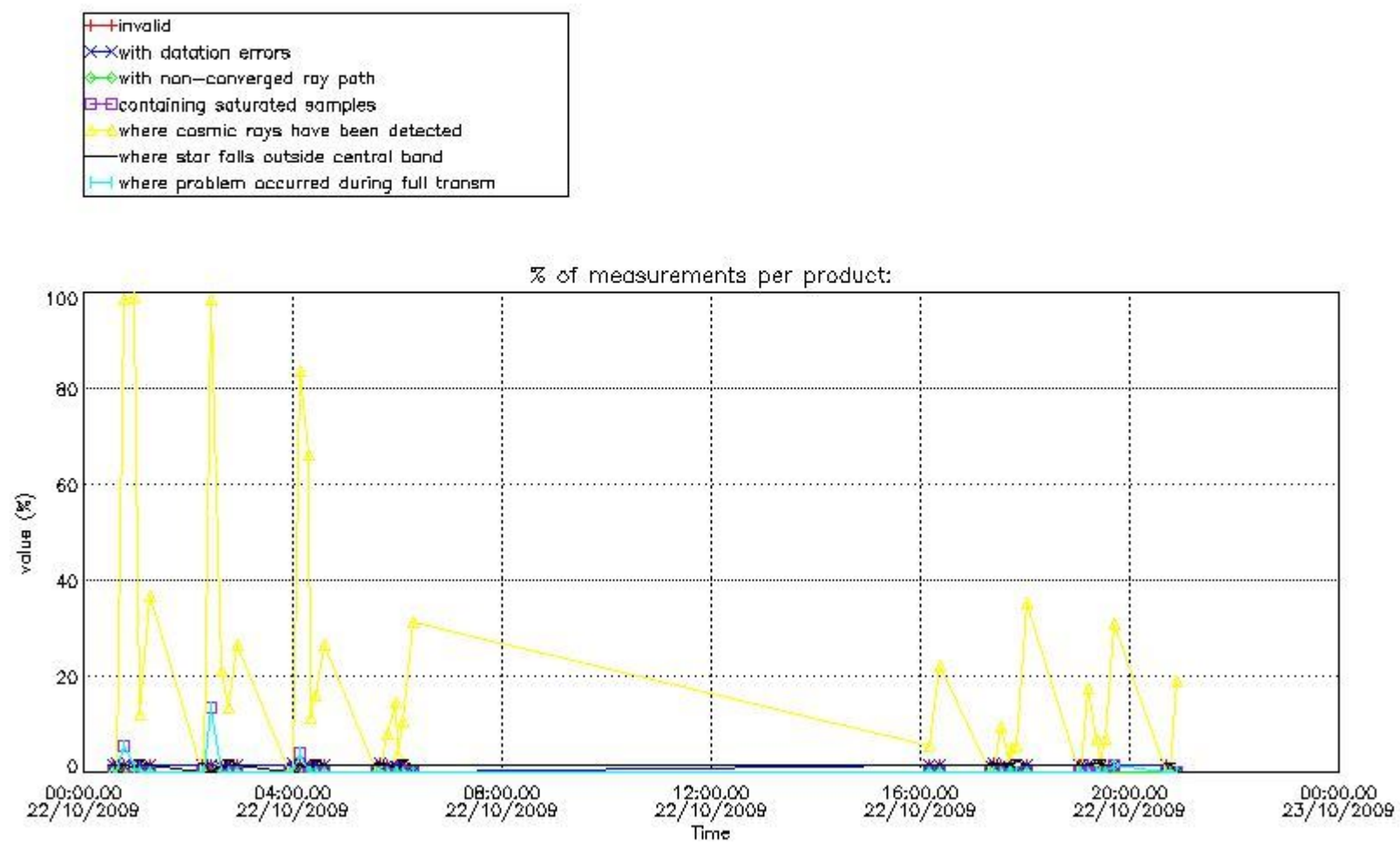


4. Level 1 quality information per product

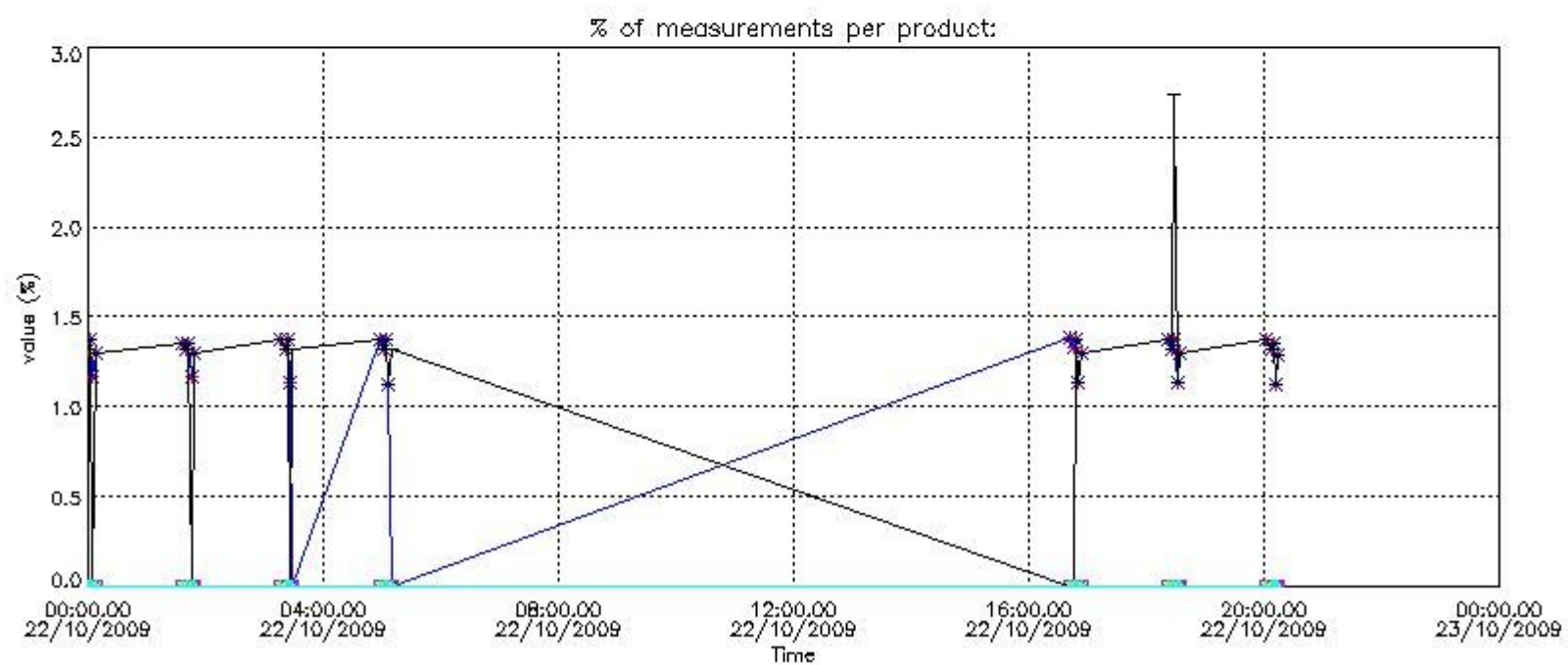
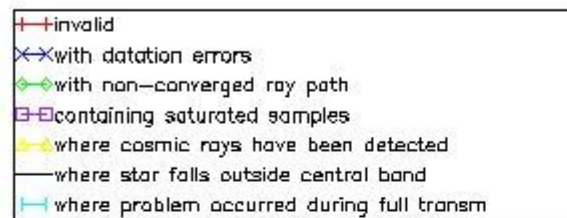
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



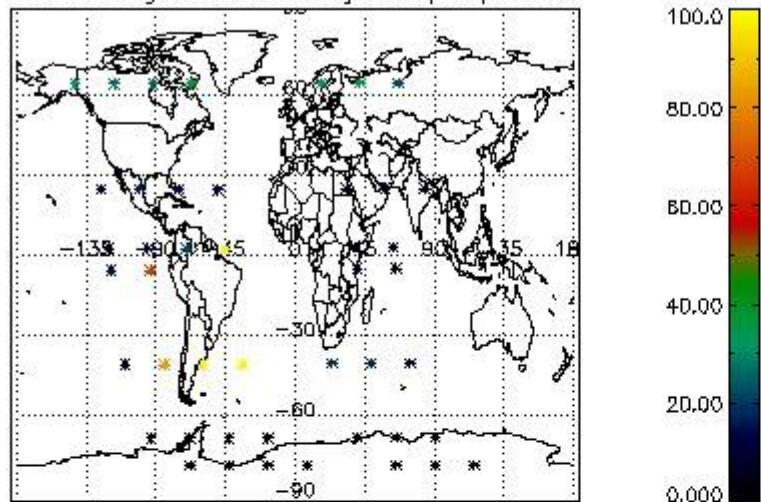
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



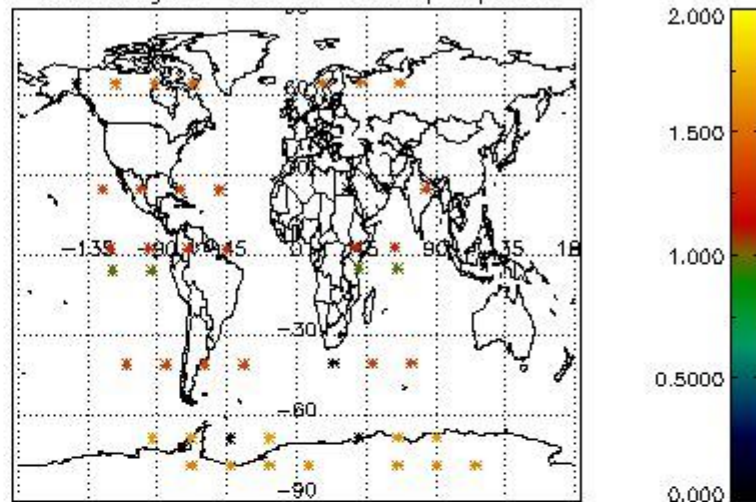
4.2 Plot quality information per product coming from level 1b processing (world map)

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

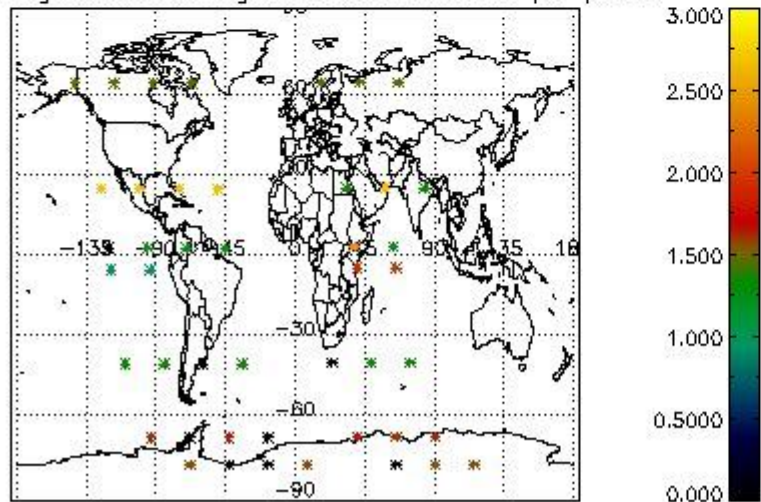
Percentage of cosmic ray hits per profile



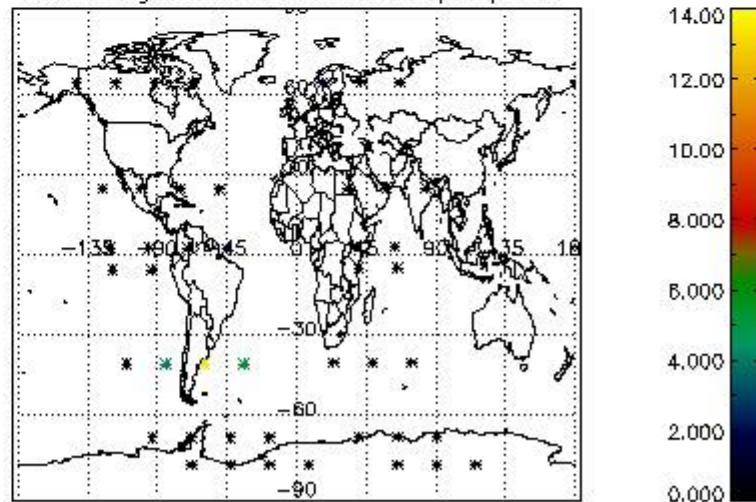
Percentage of datation errors per profile



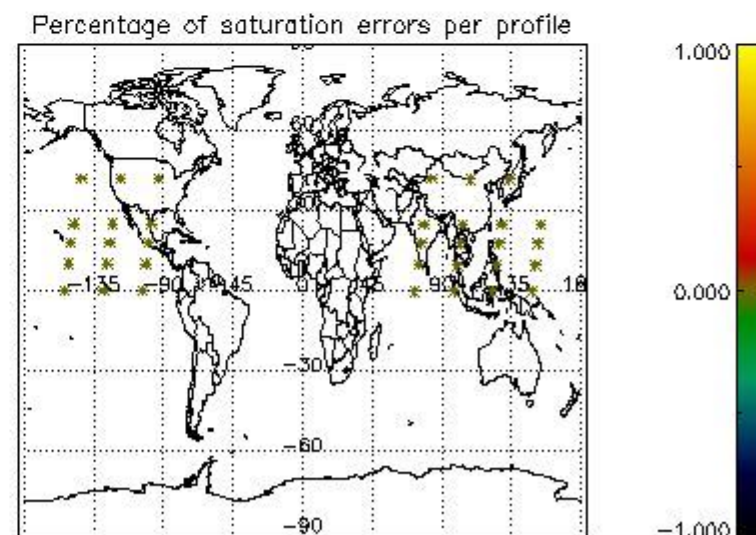
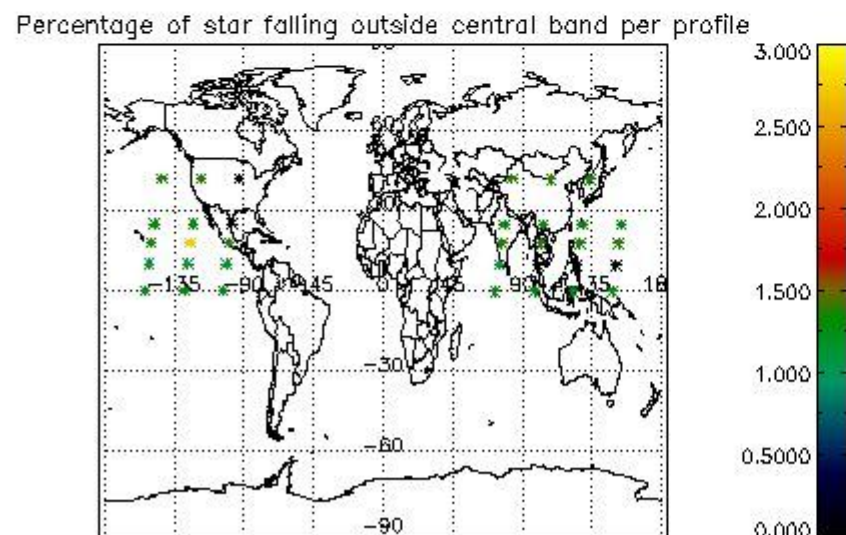
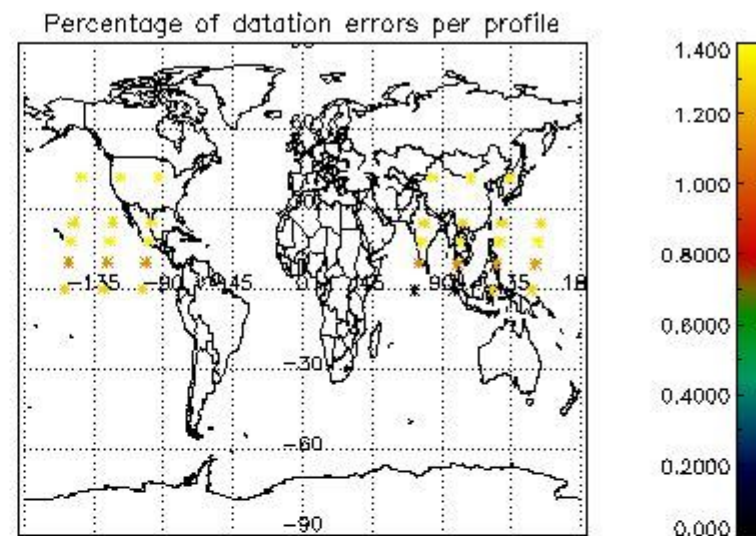
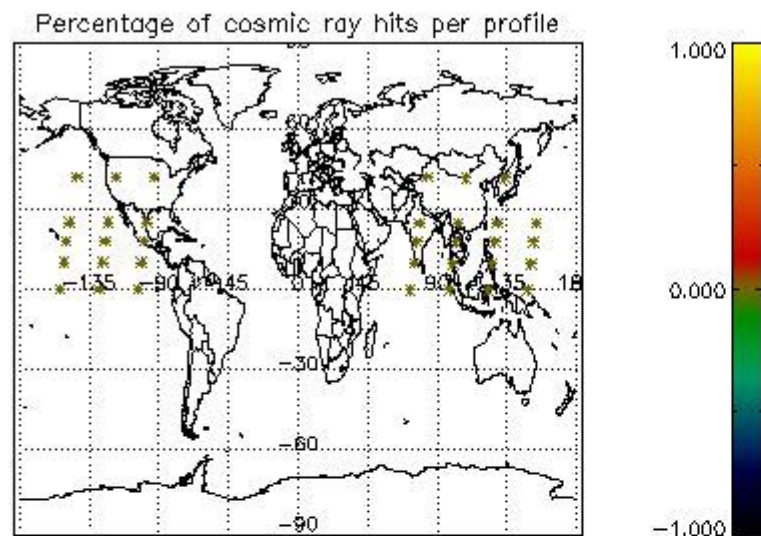
Percentage of star falling outside central band per profile



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

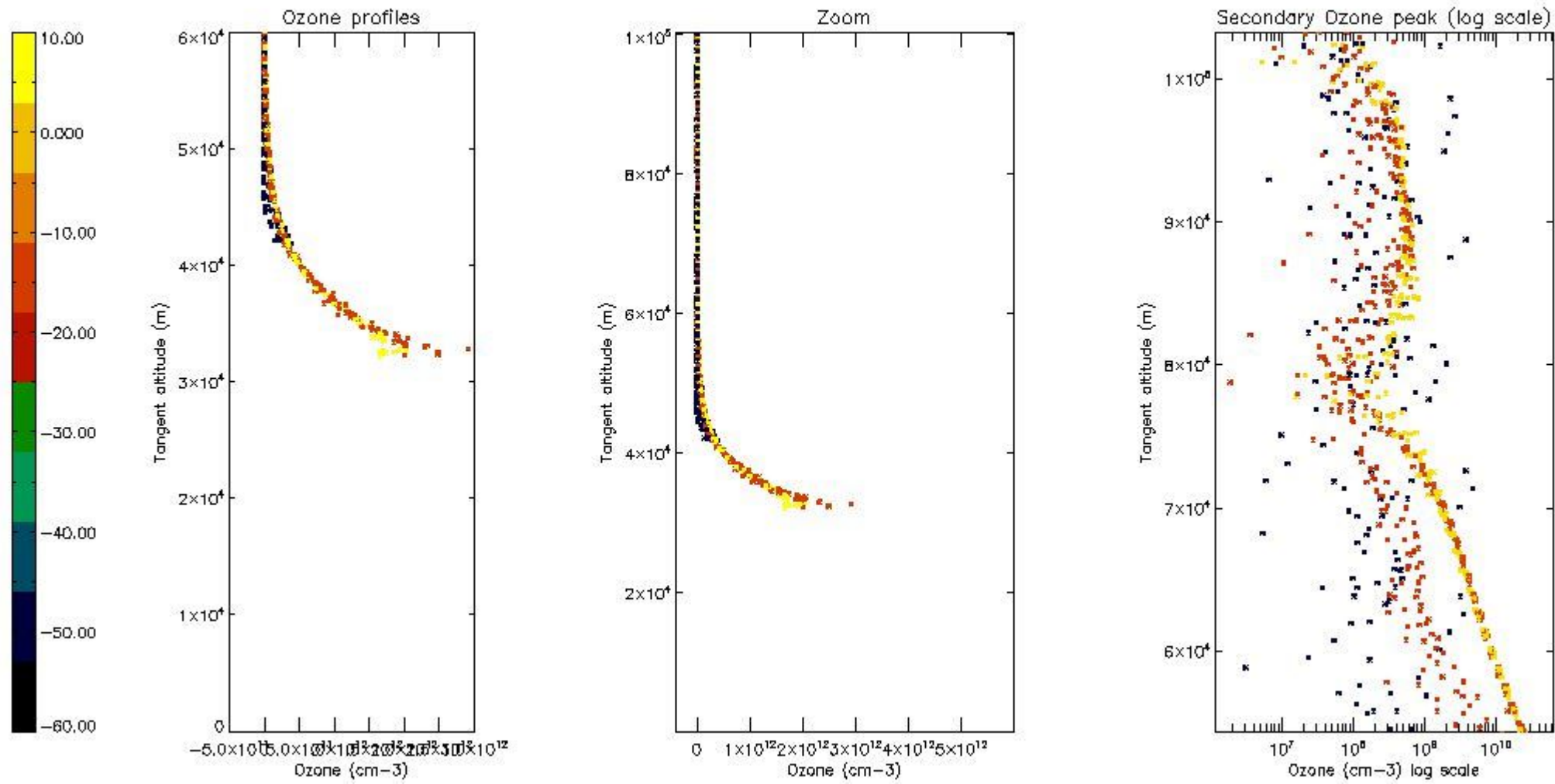
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	15

STD < 10	13
STD < 5	9

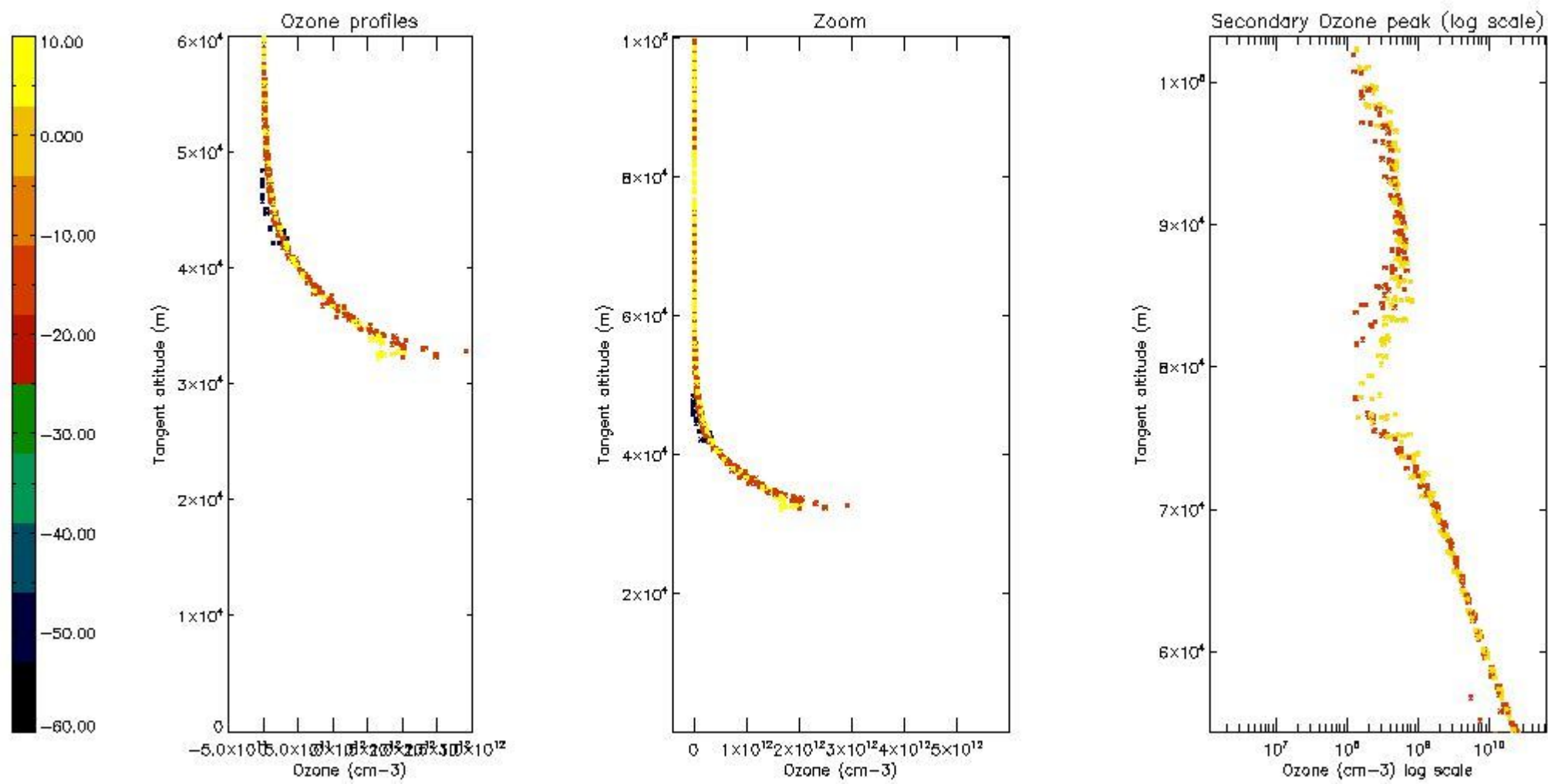
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



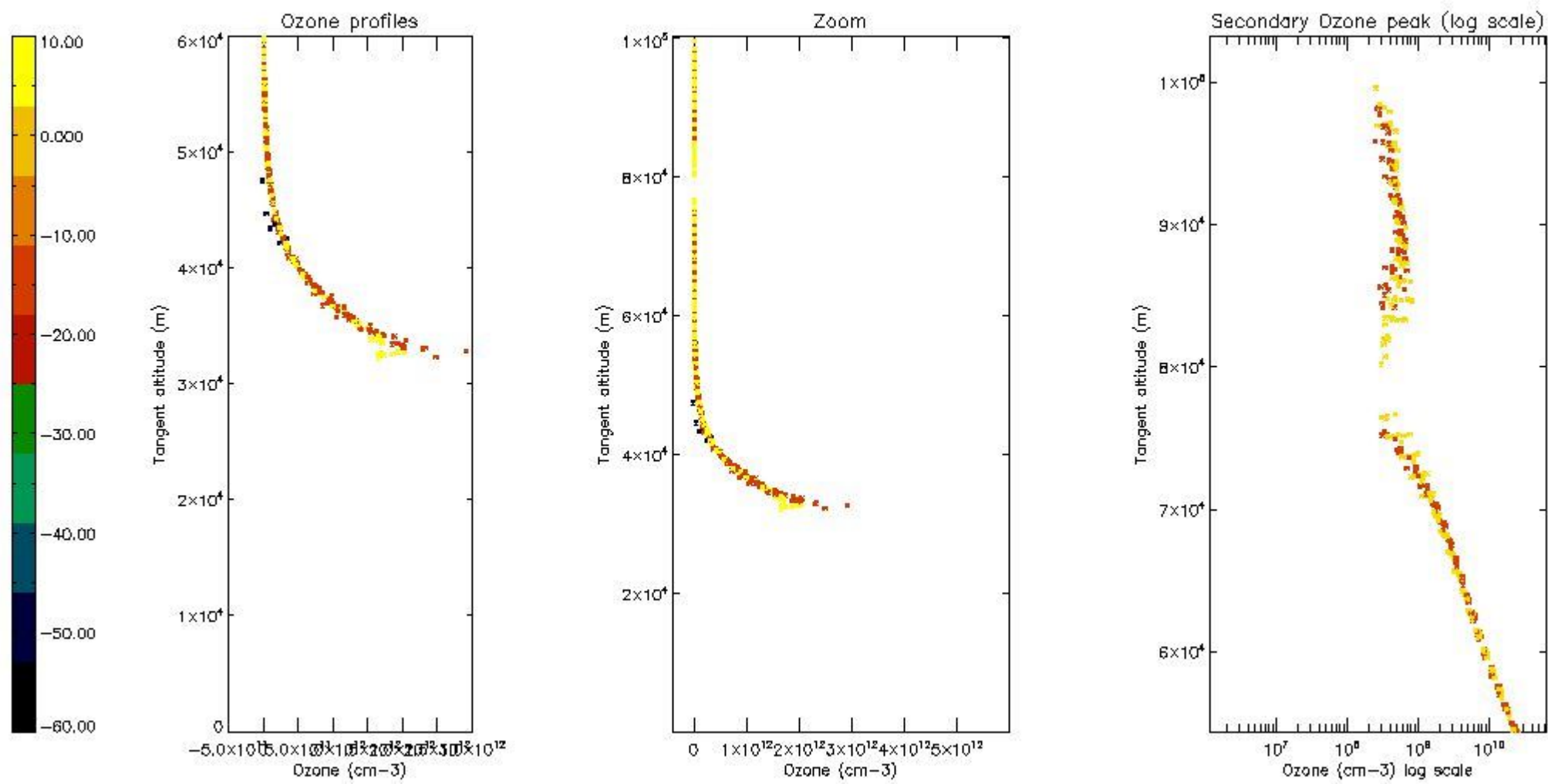
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



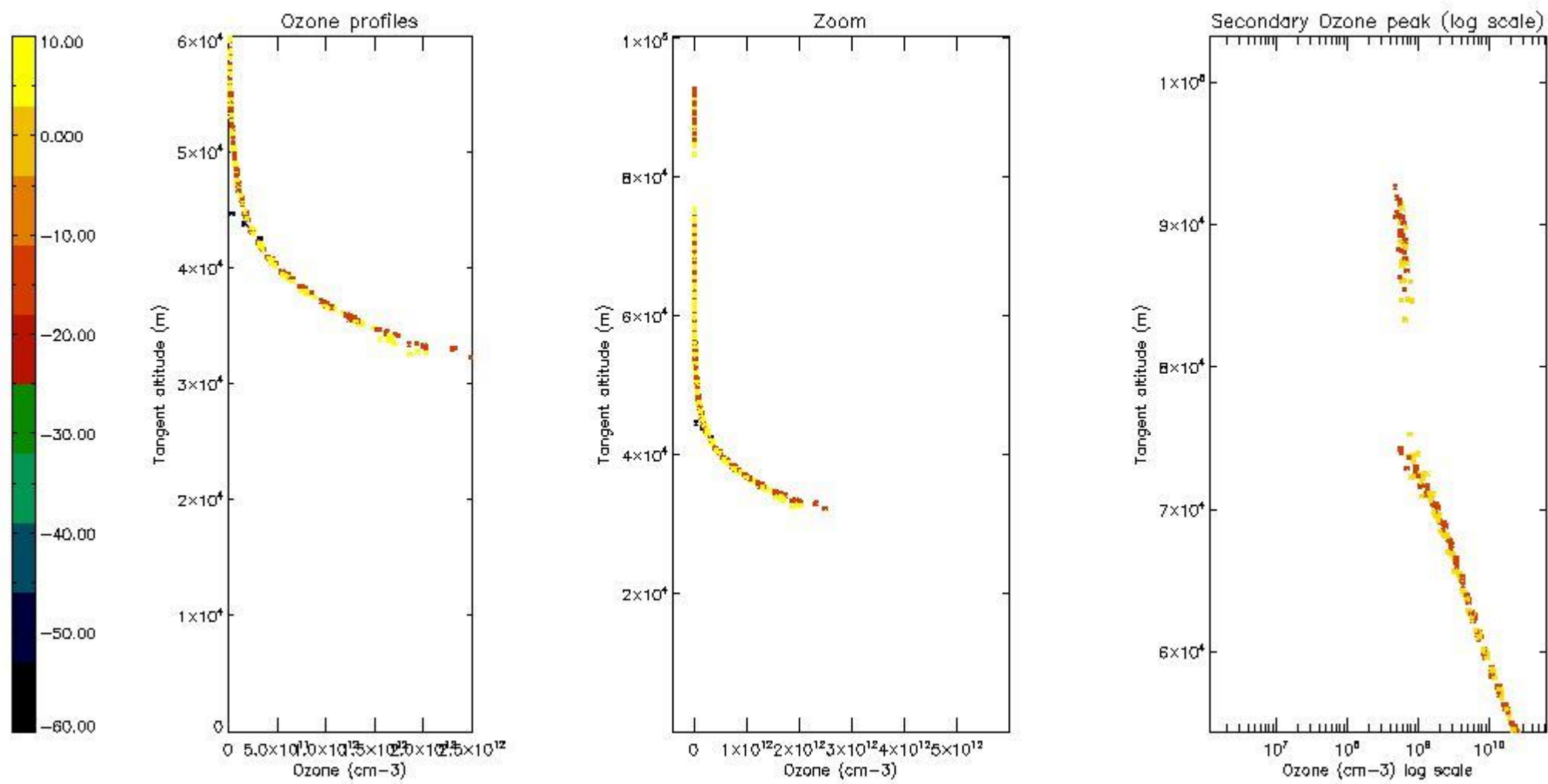
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



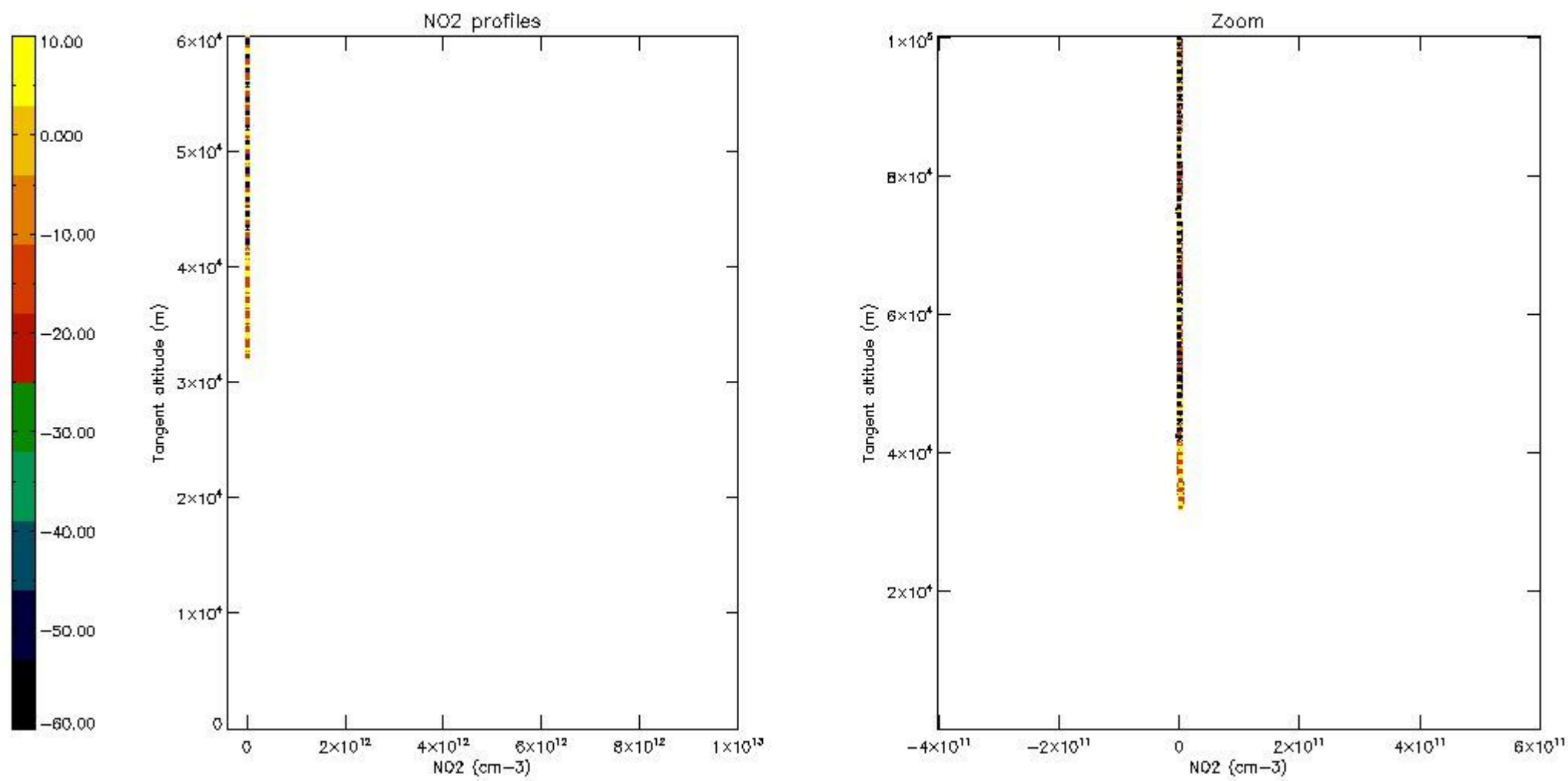
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



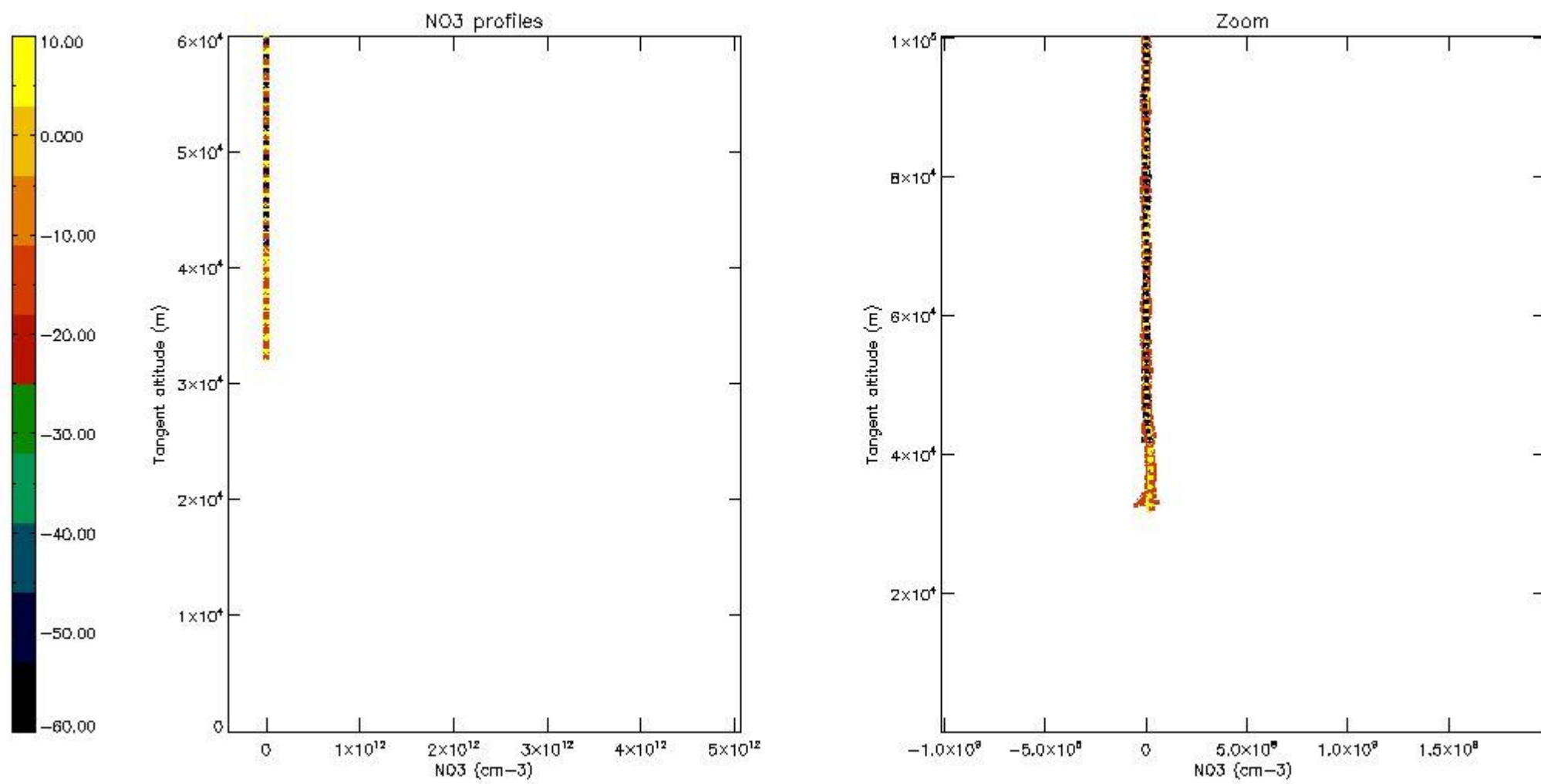
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



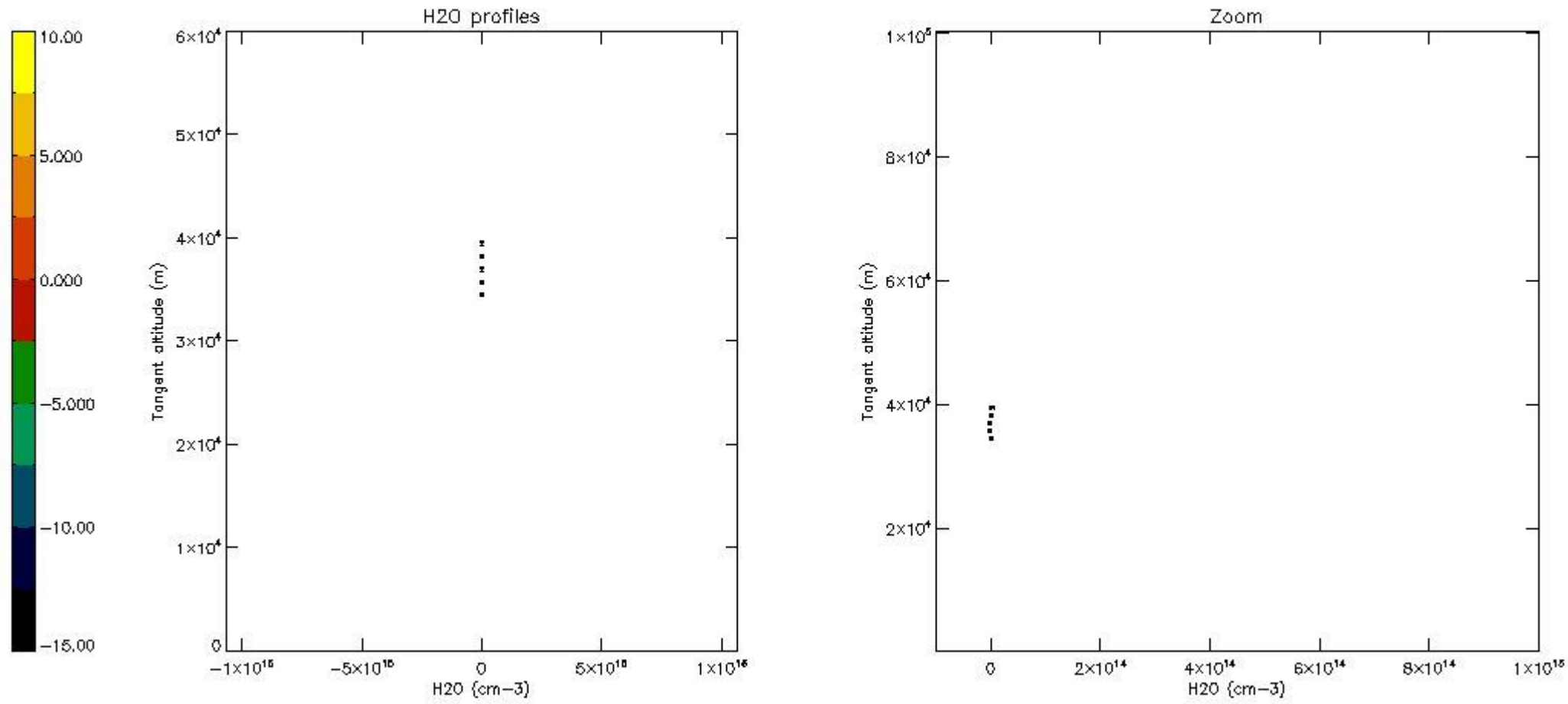
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

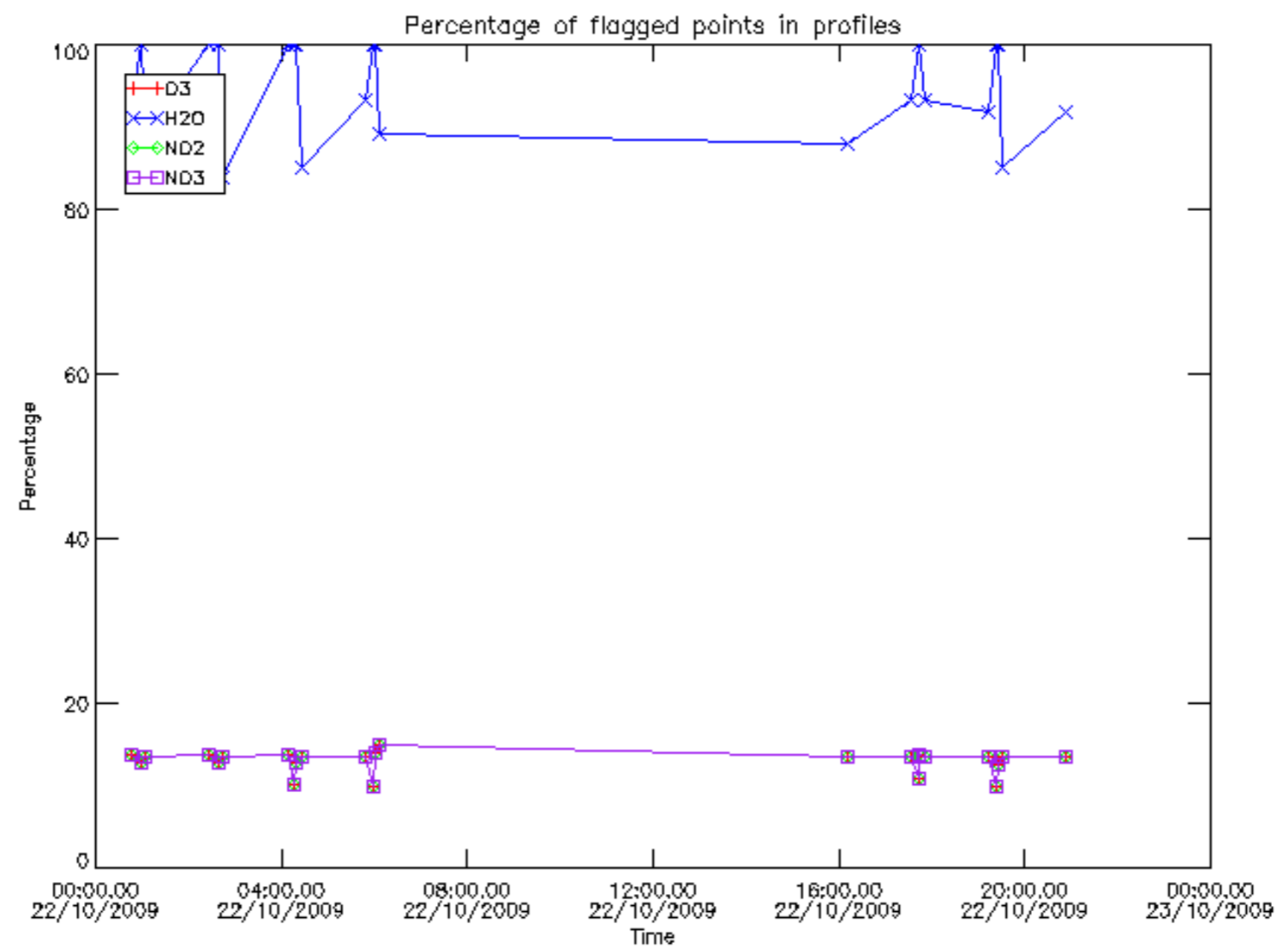
The colorbar represents the latitude.



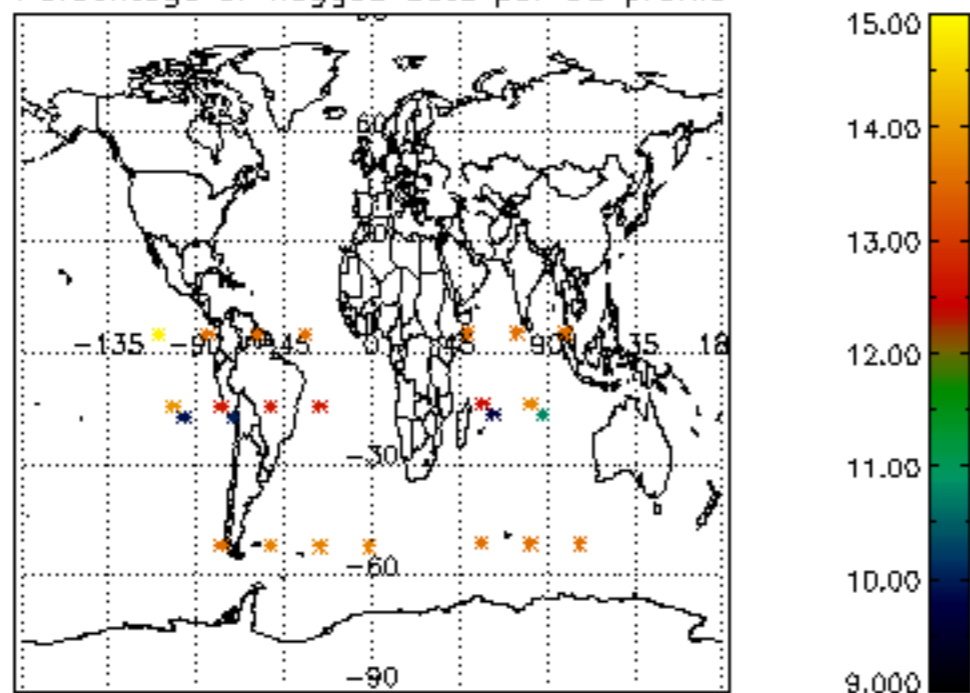
6. Auxiliary Data Files used for the production reported in section 2

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.

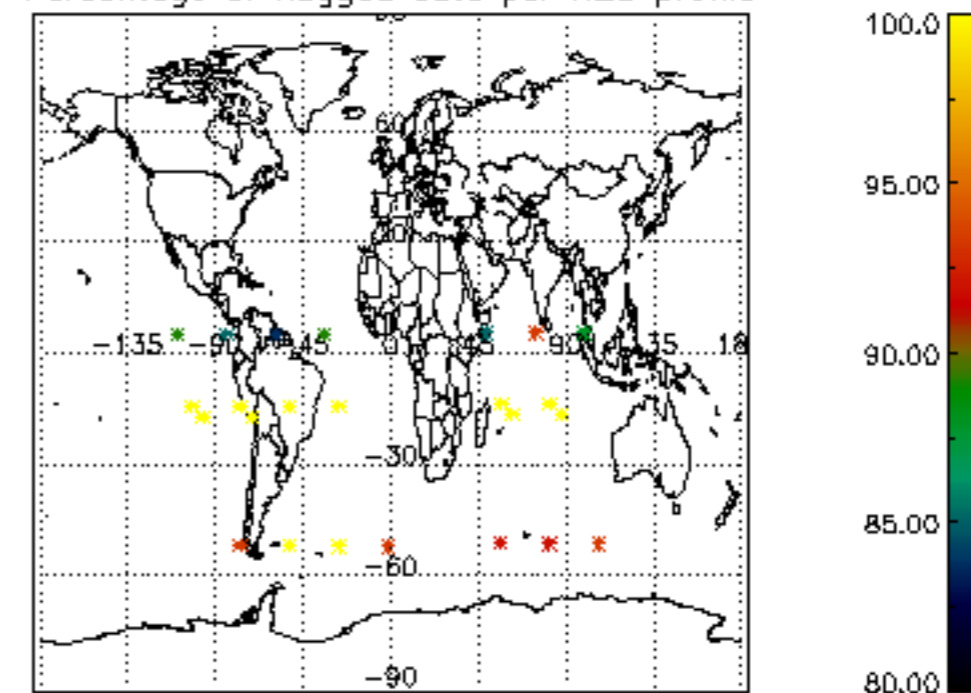
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-OCT-2009 00:00:19
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-OCT-2009 00:00:19
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-OCT-2009 00:00:19



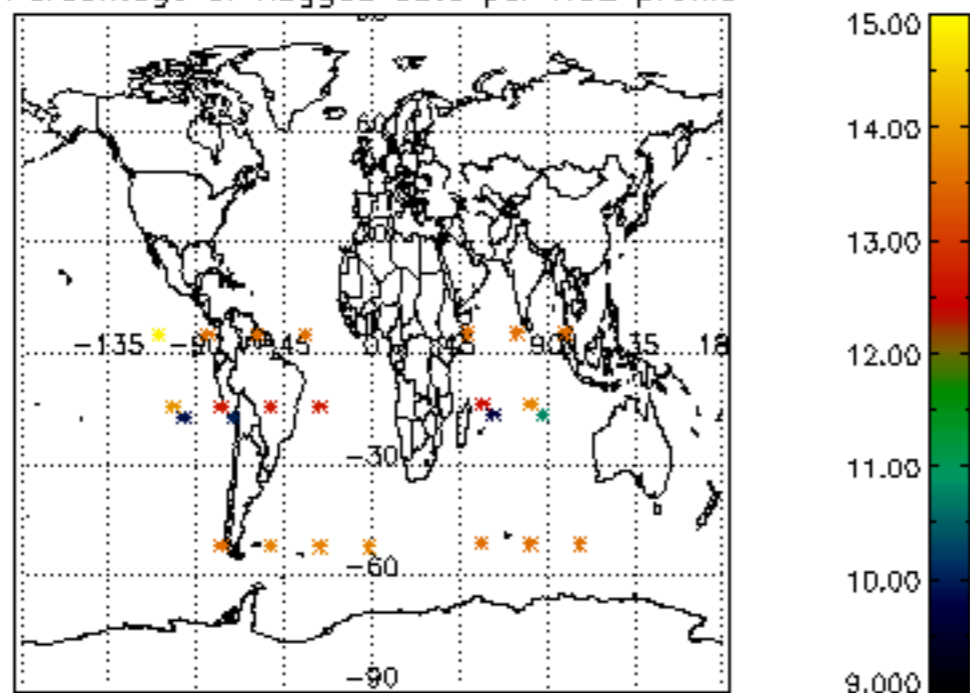
Percentage of flagged data per D3 profile



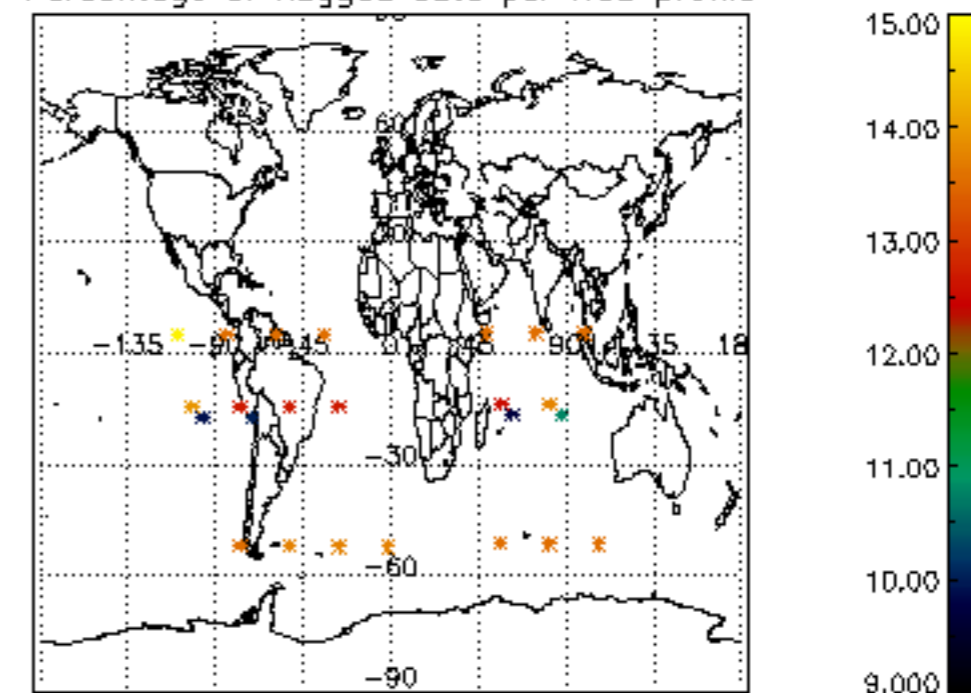
Percentage of flagged data per H2O profile

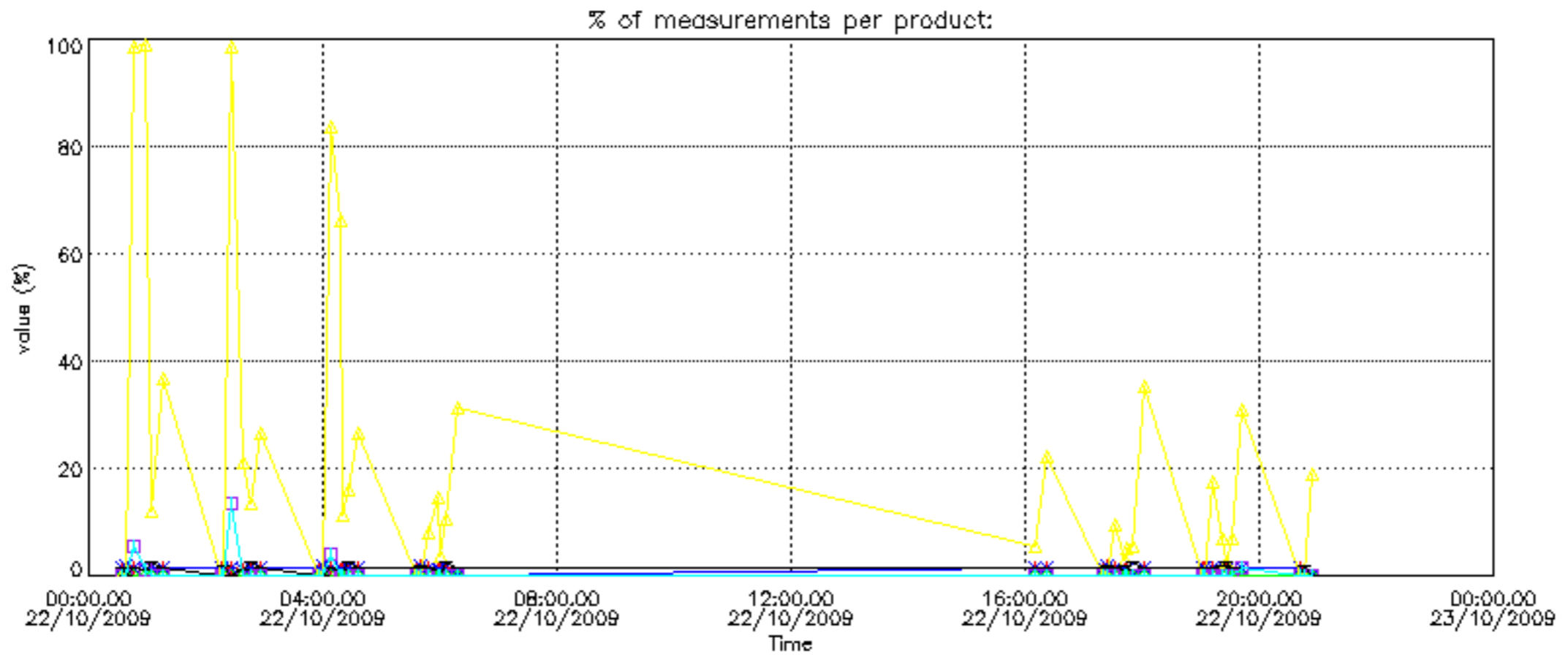


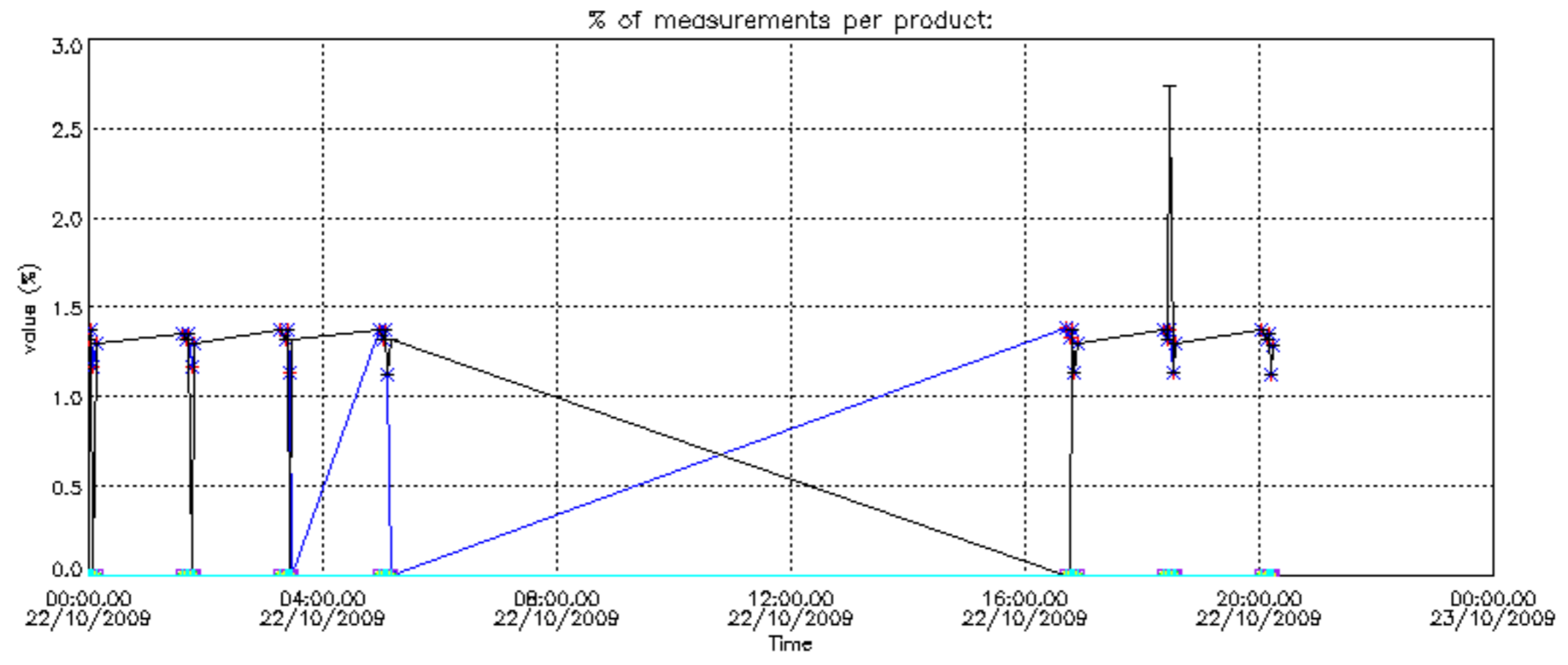
Percentage of flagged data per NO2 profile



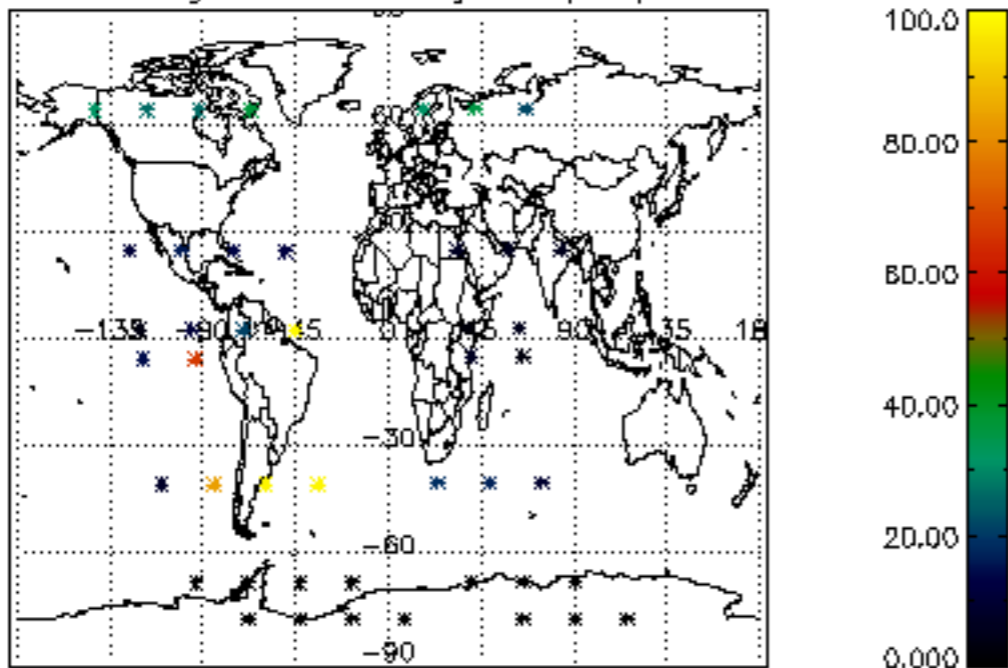
Percentage of flagged data per NO3 profile



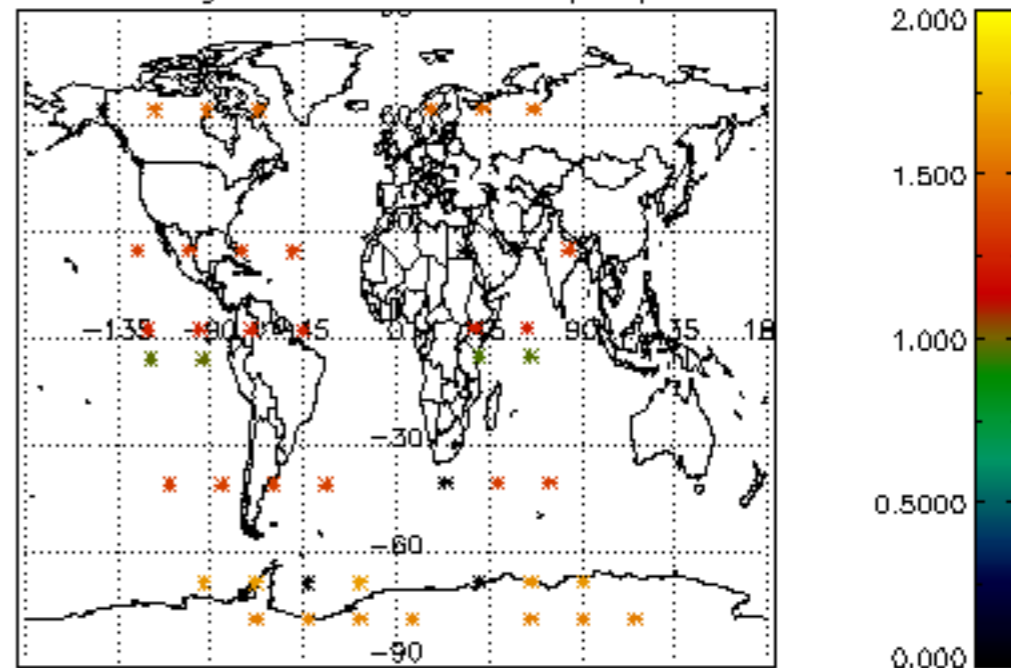




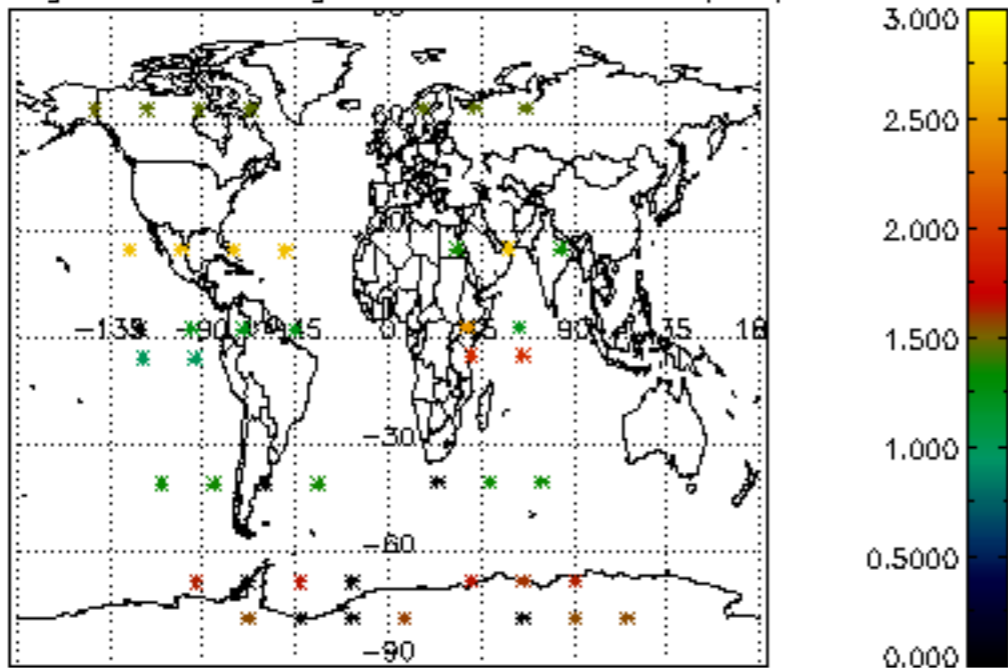
Percentage of cosmic ray hits per profile



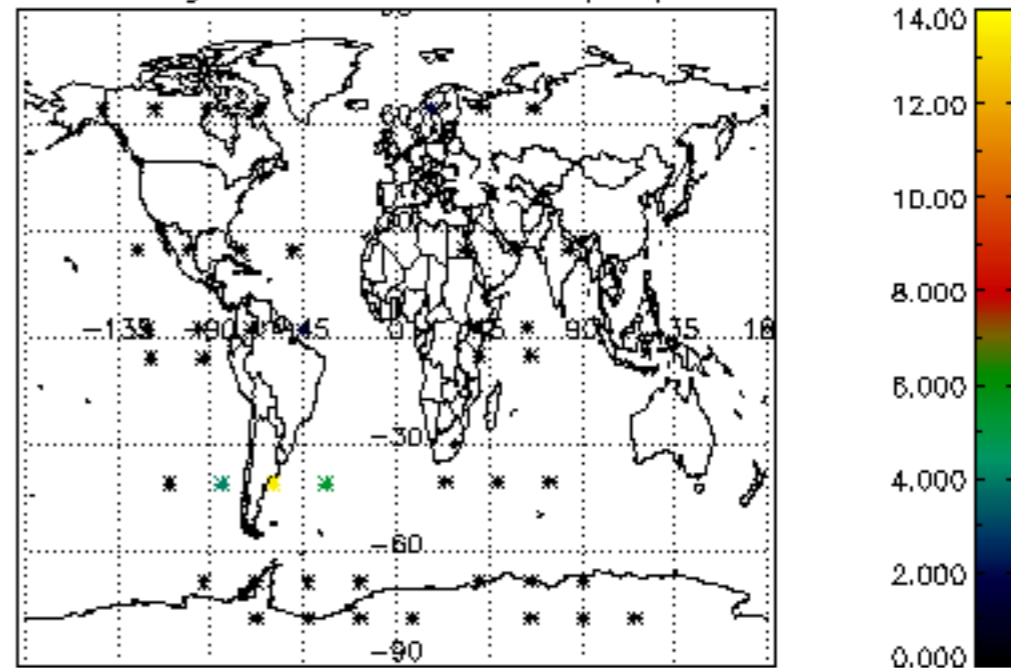
Percentage of datation errors per profile



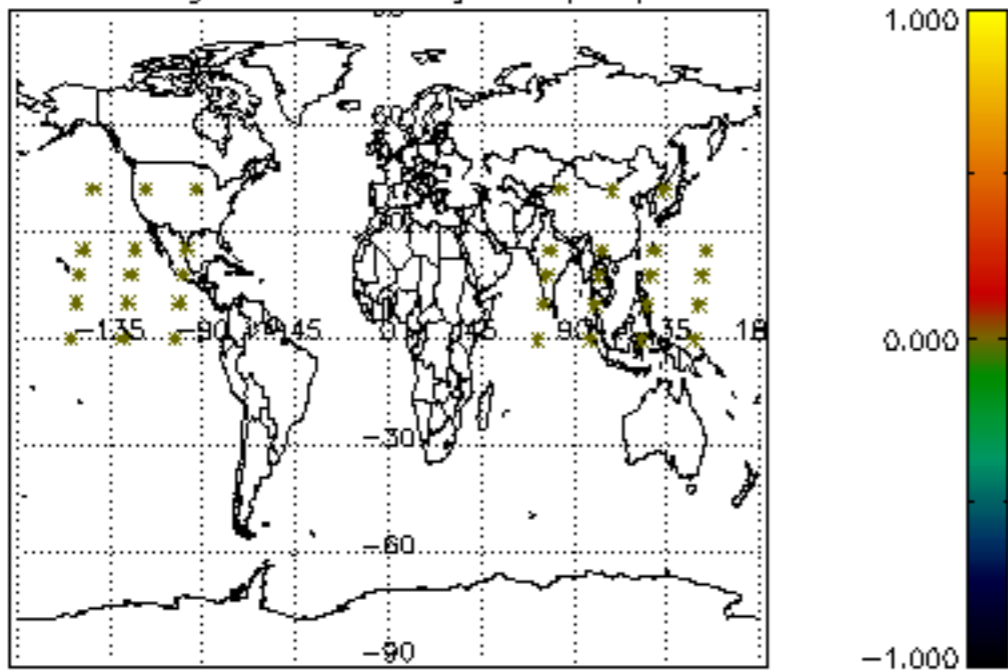
Percentage of star falling outside central band per profile



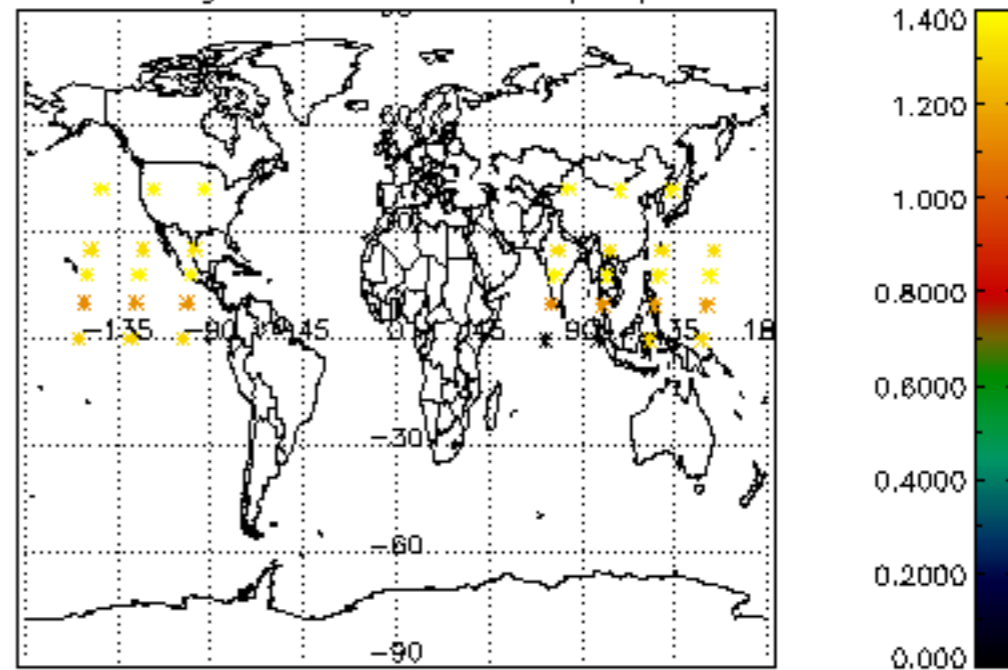
Percentage of saturation errors per profile



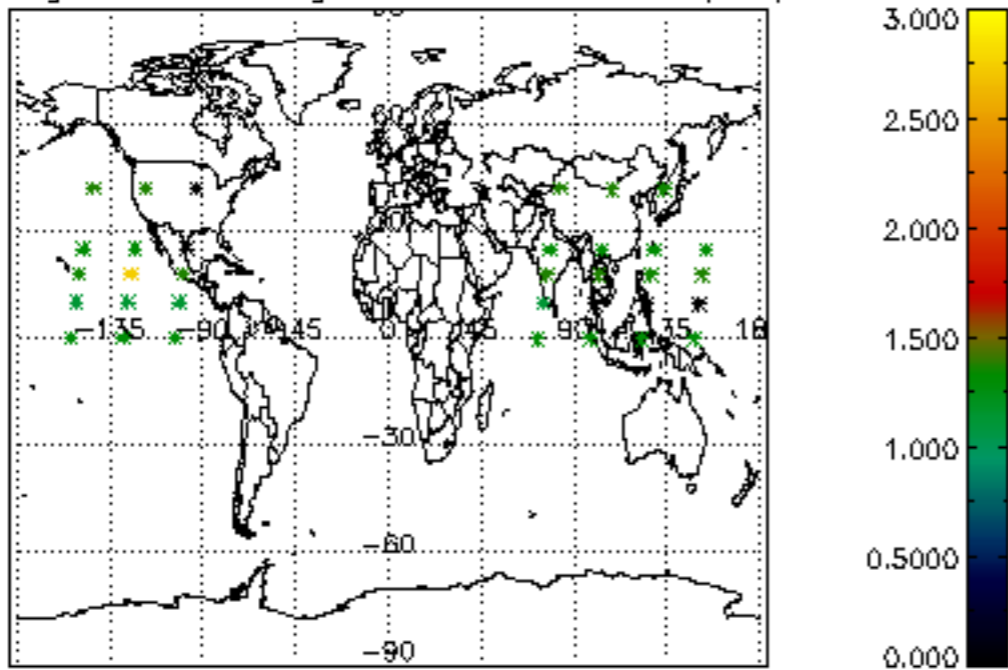
Percentage of cosmic ray hits per profile



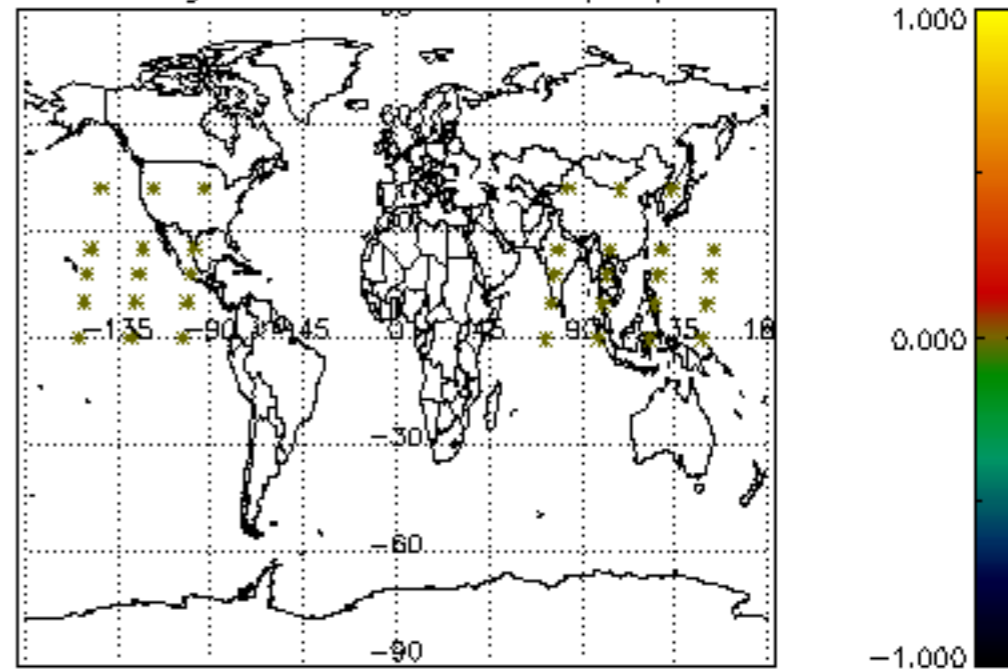
Percentage of datation errors per profile

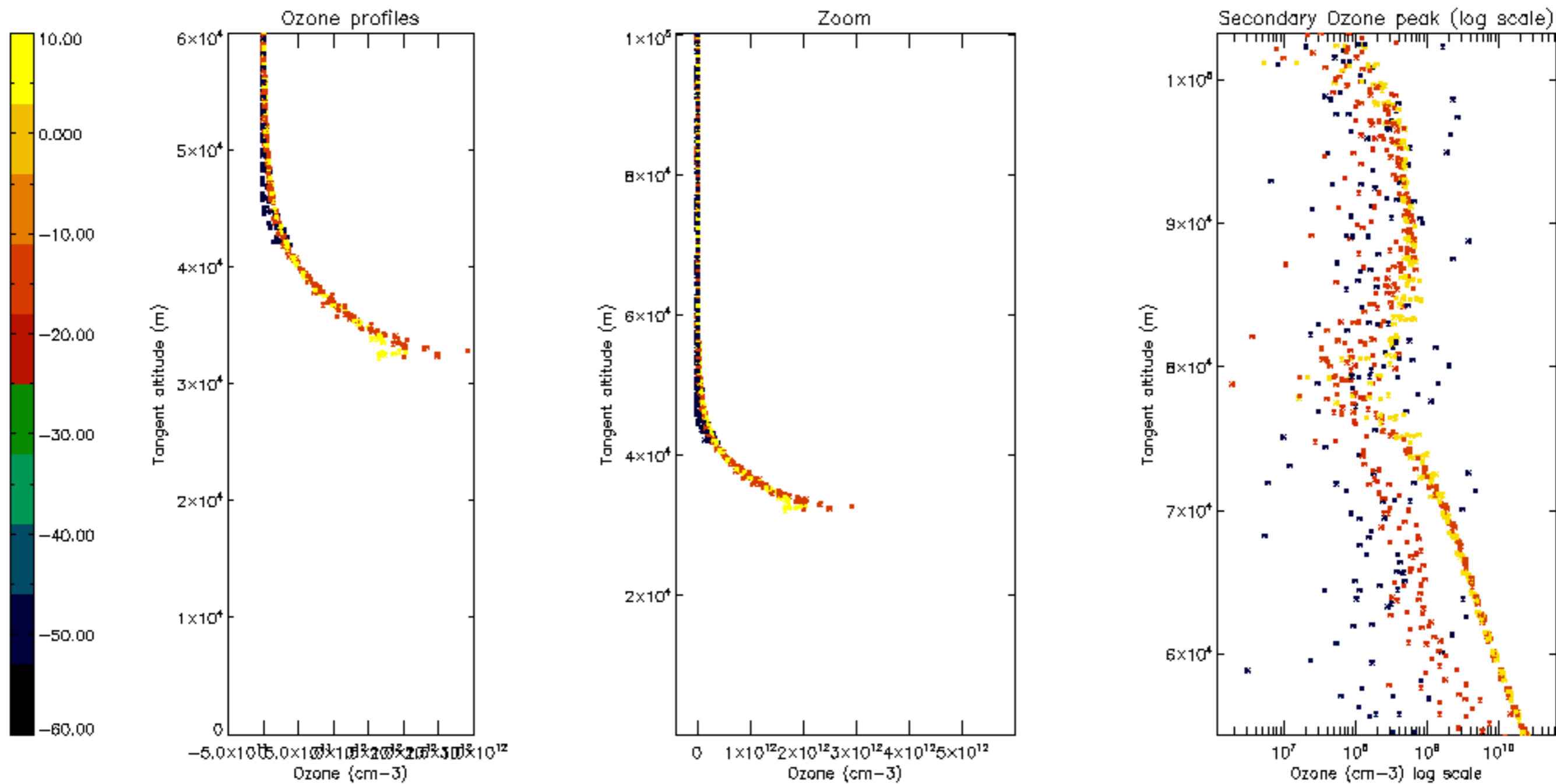


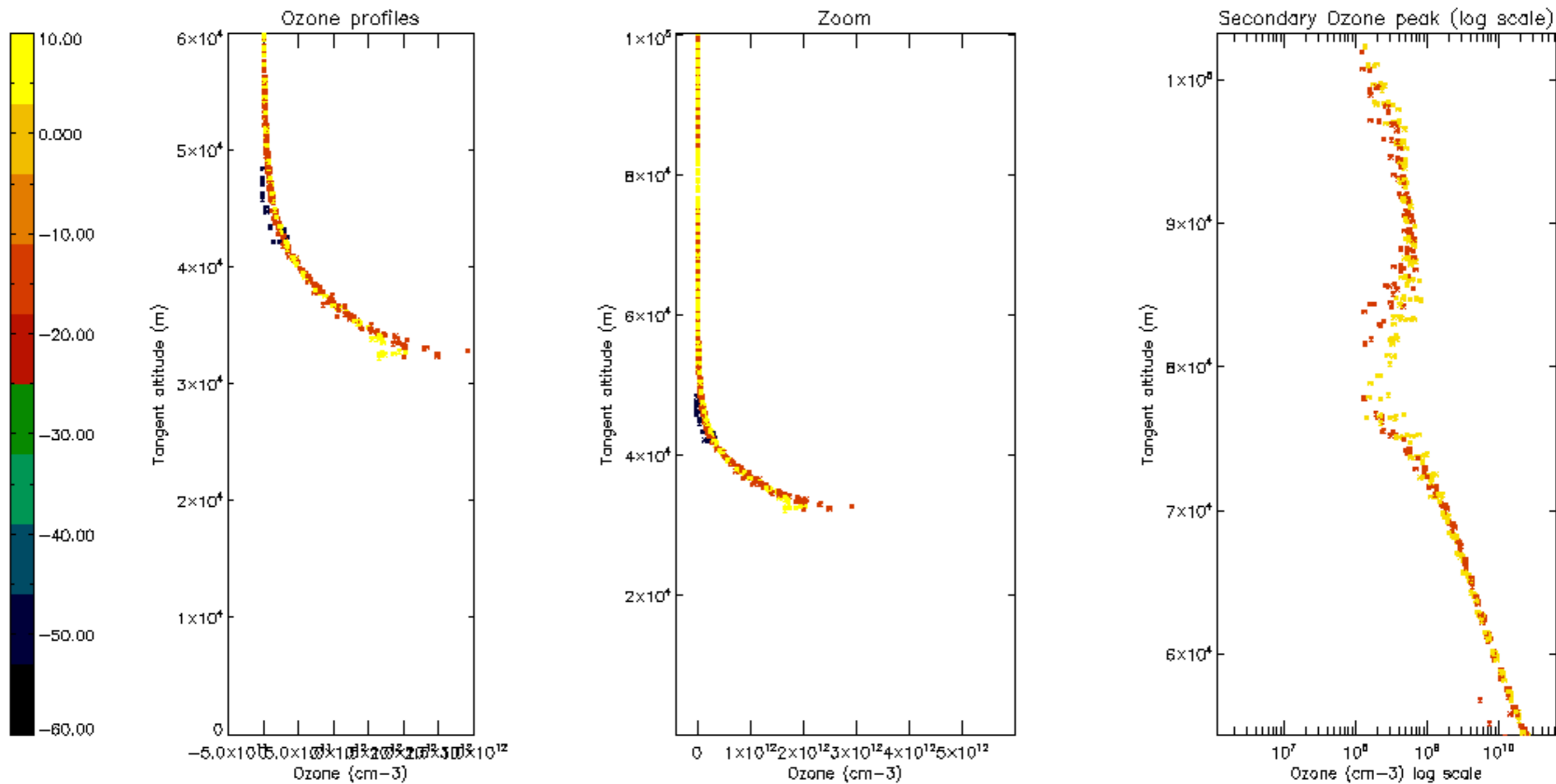
Percentage of star falling outside central band per profile

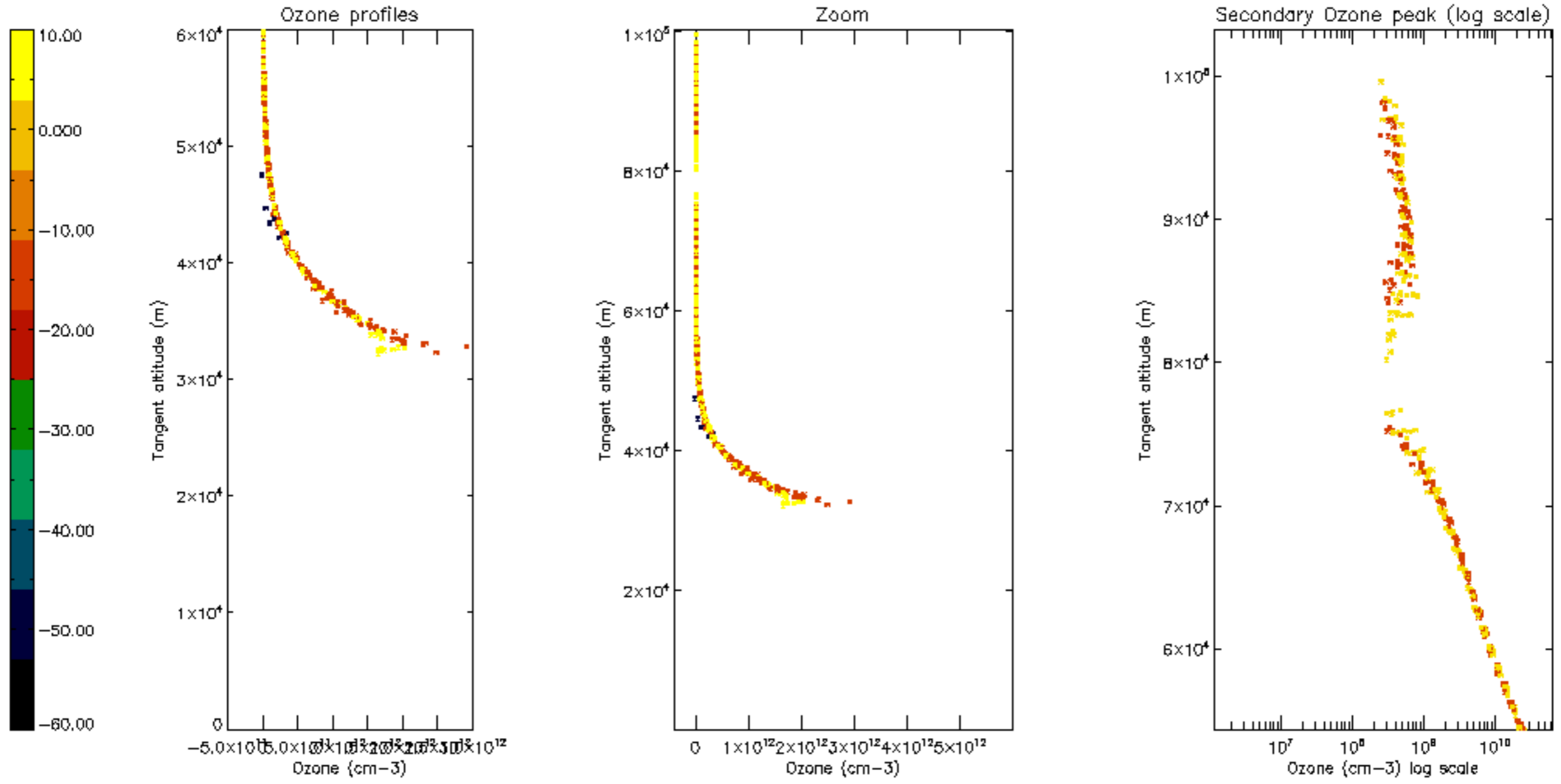


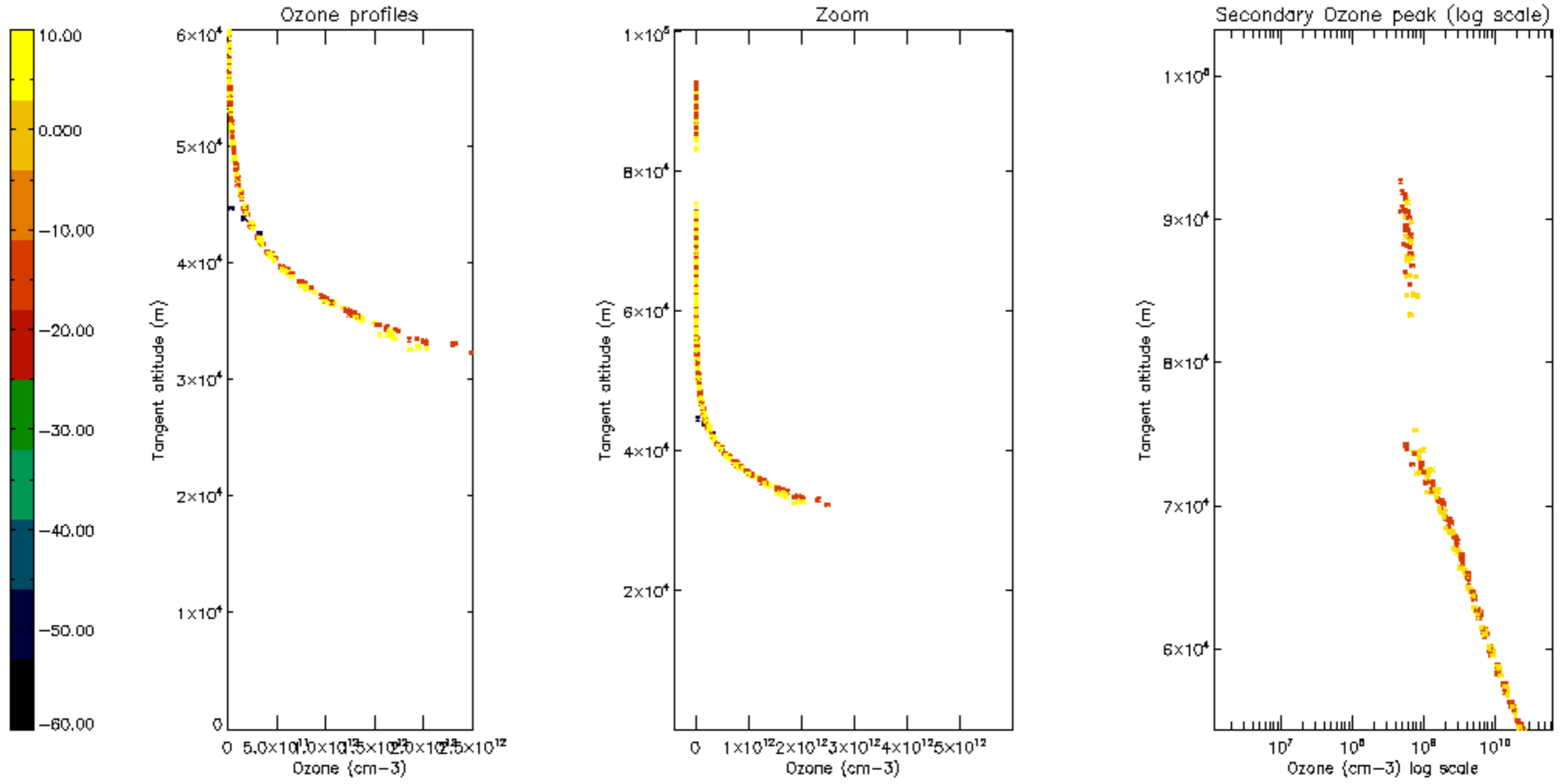
Percentage of saturation errors per profile

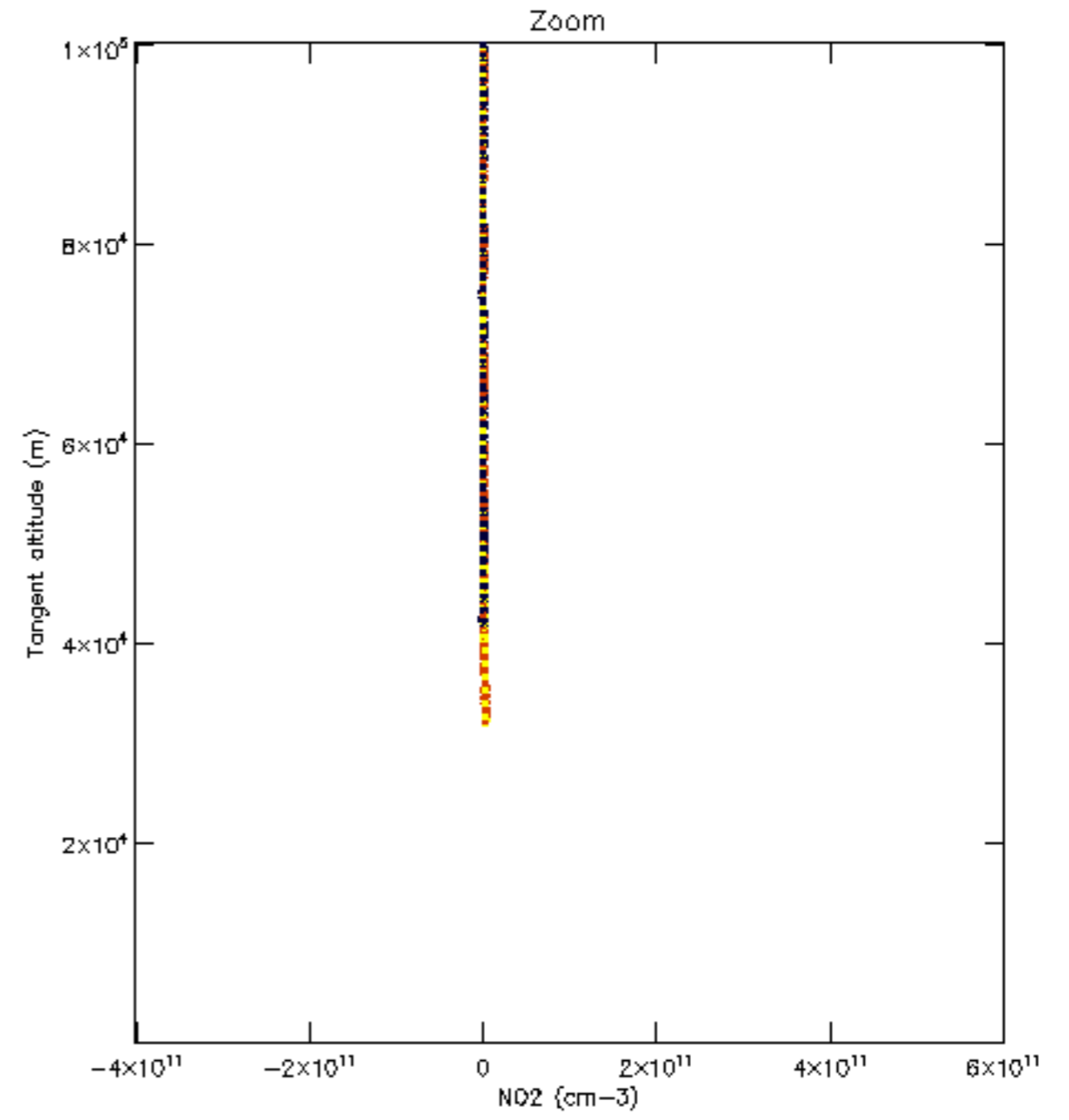
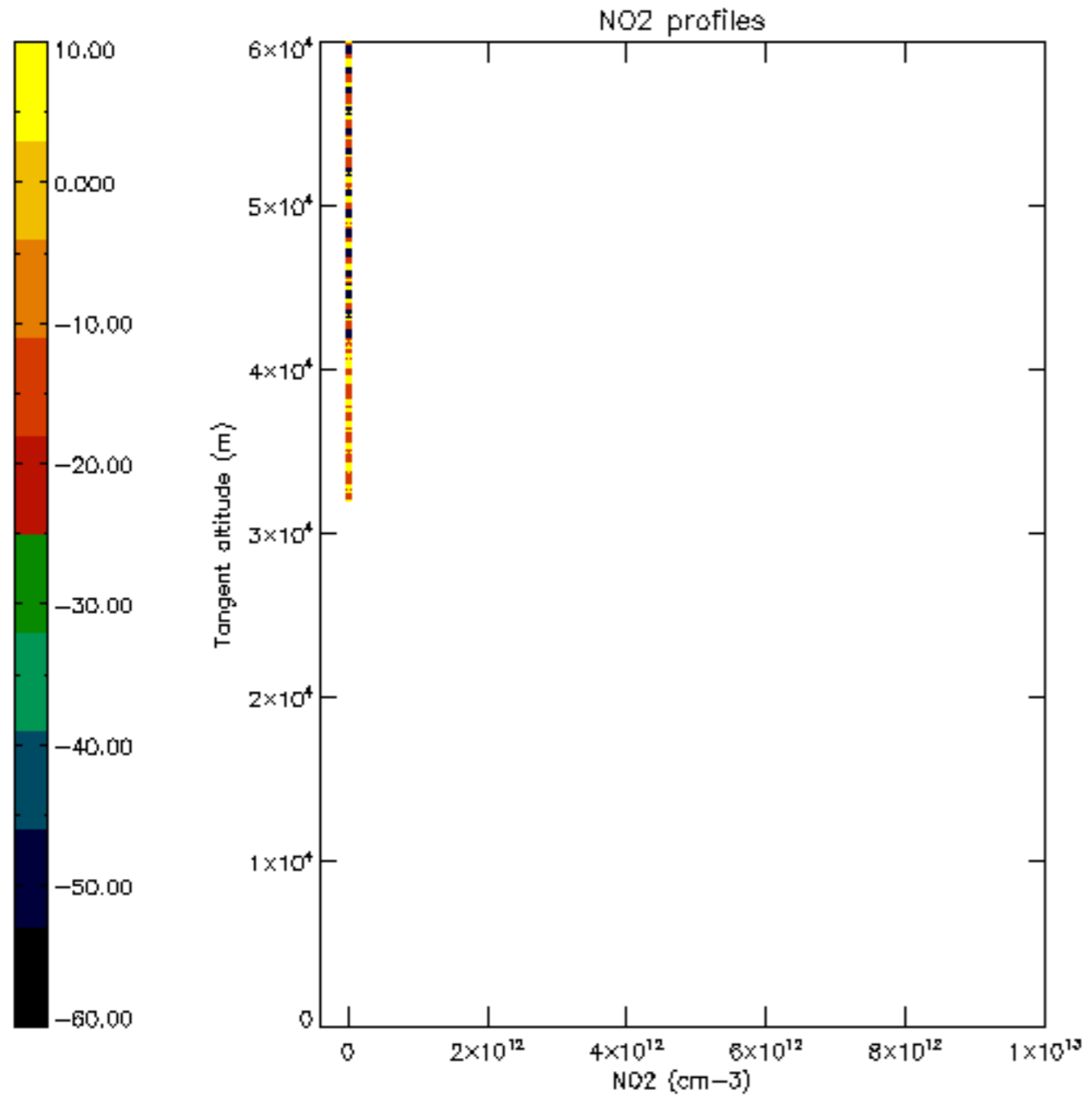


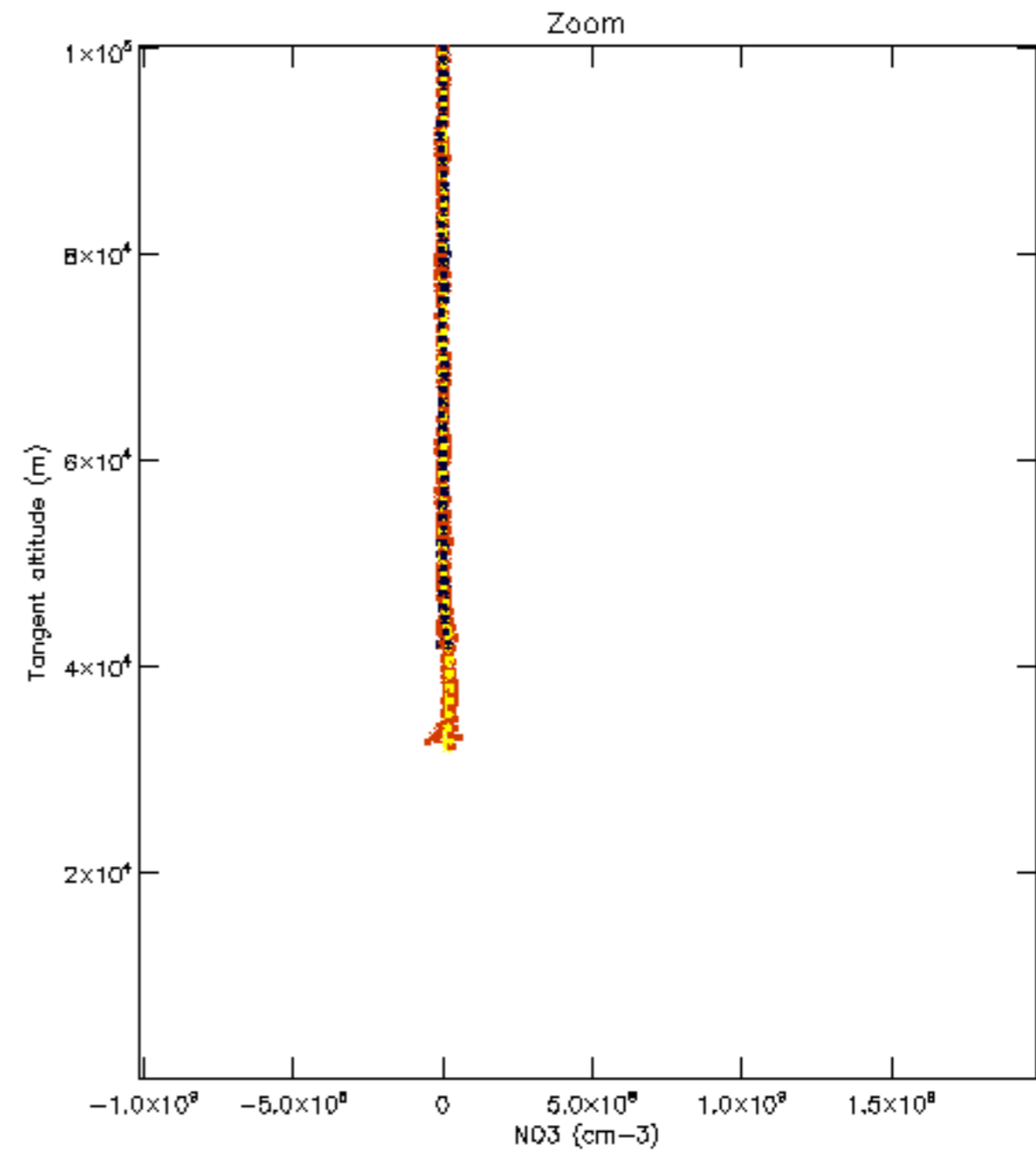
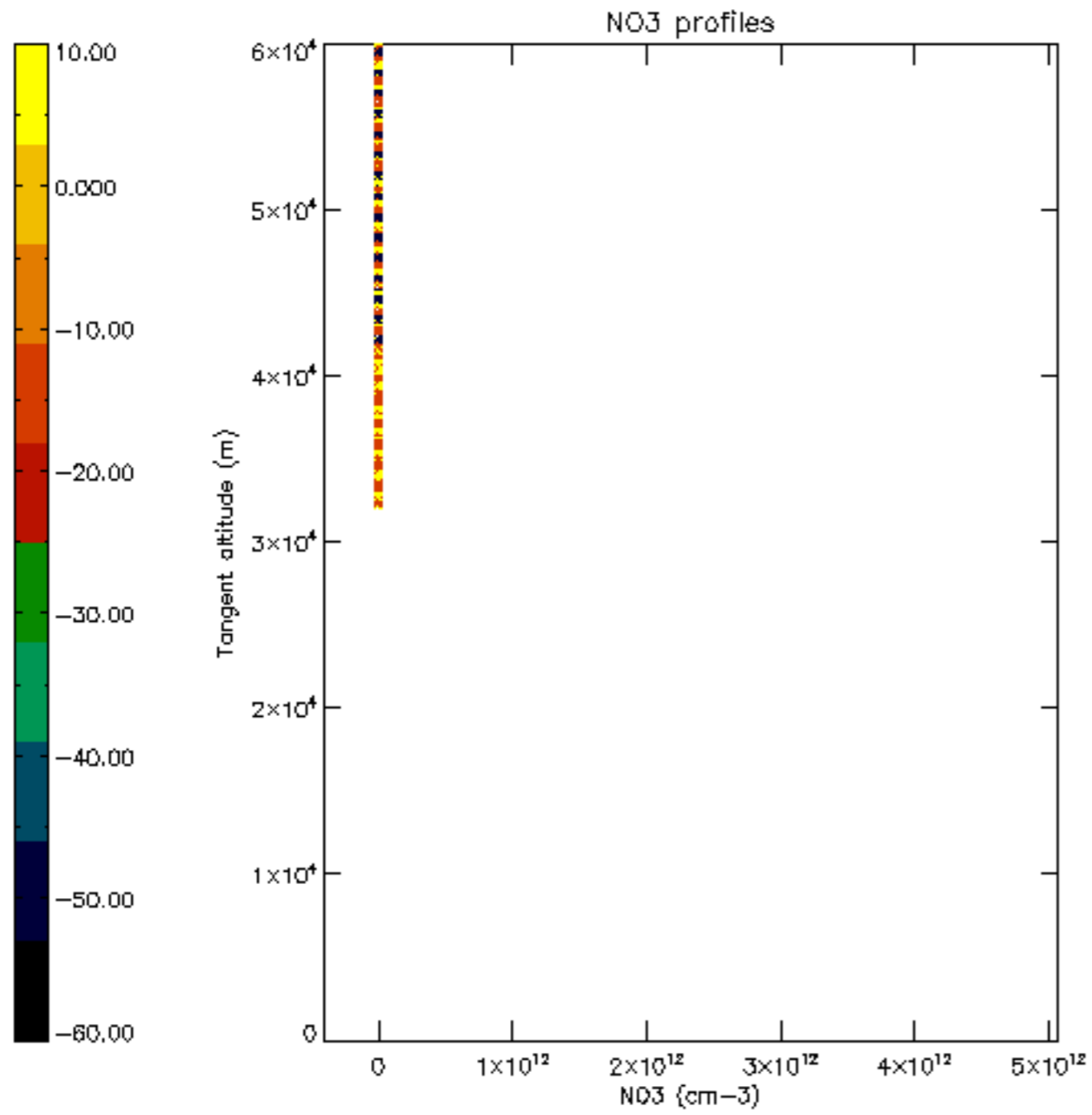


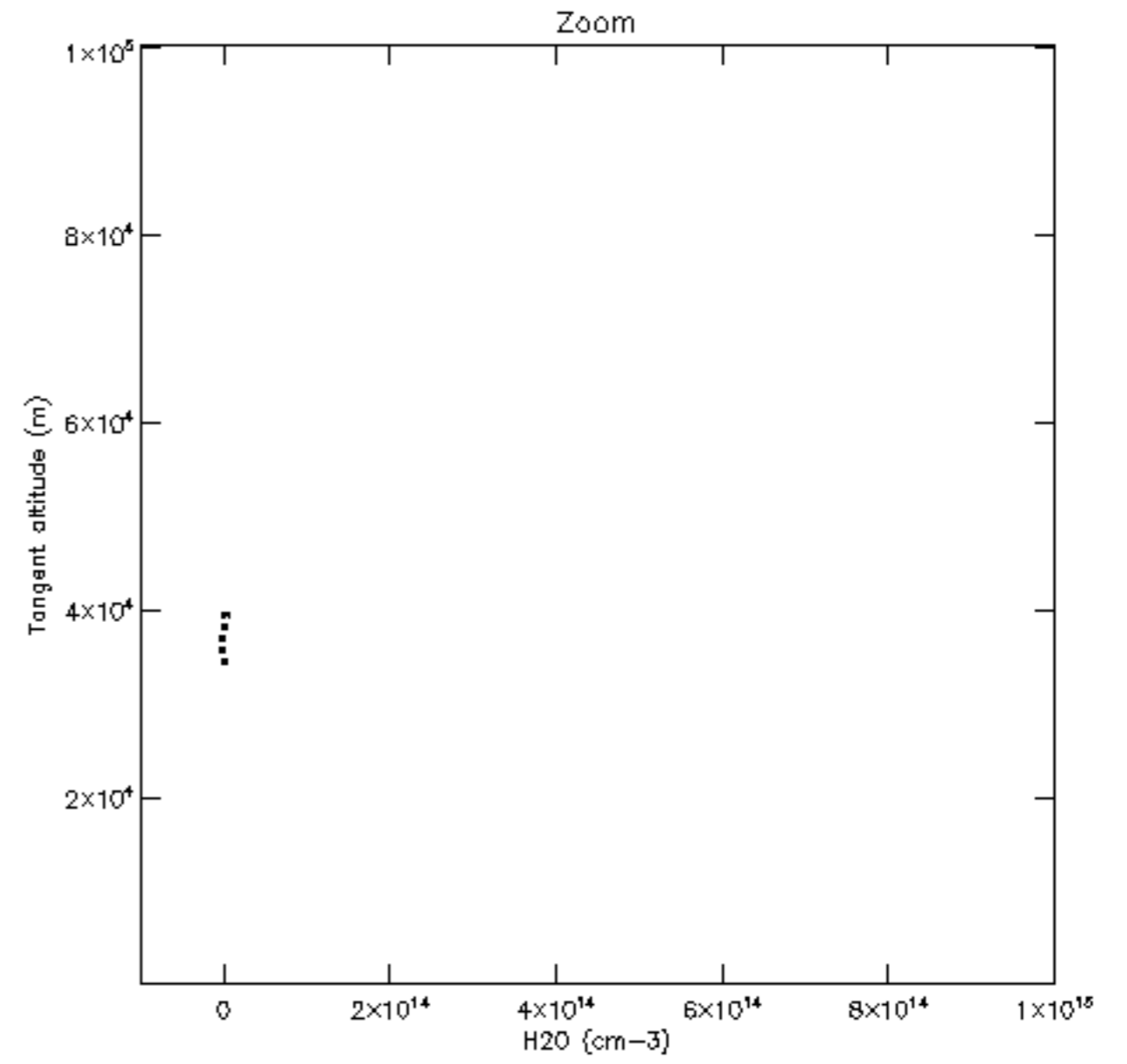
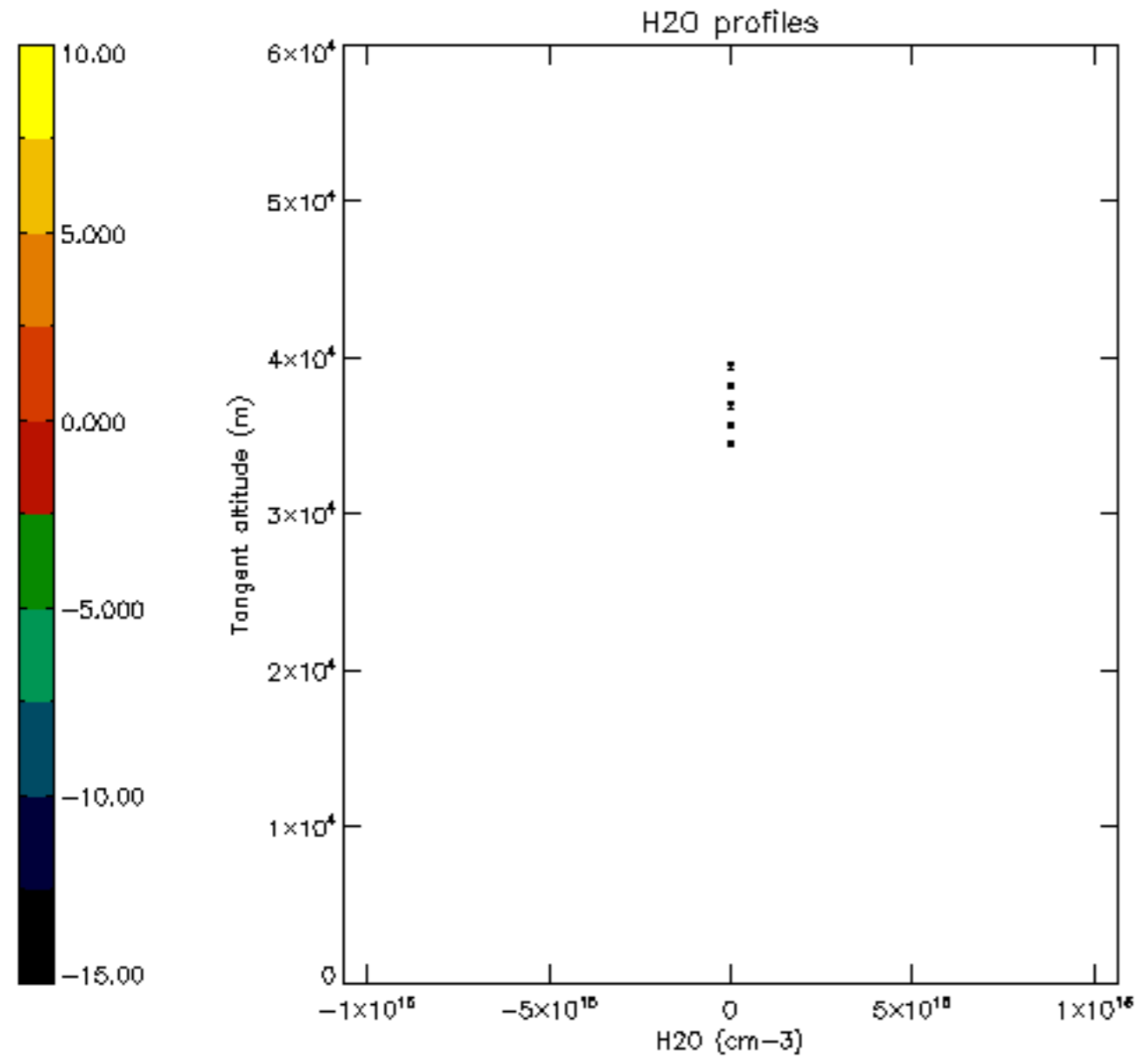


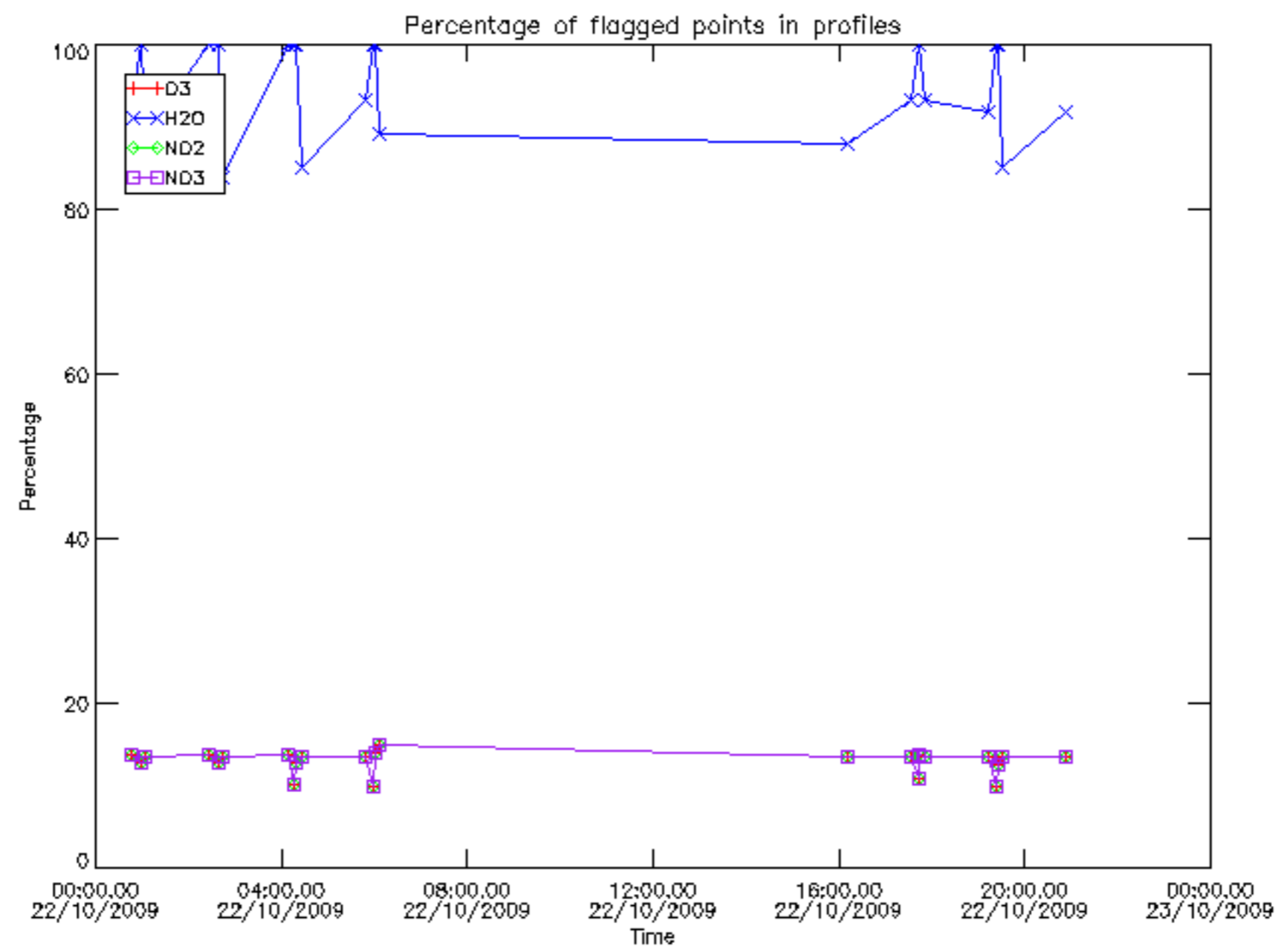




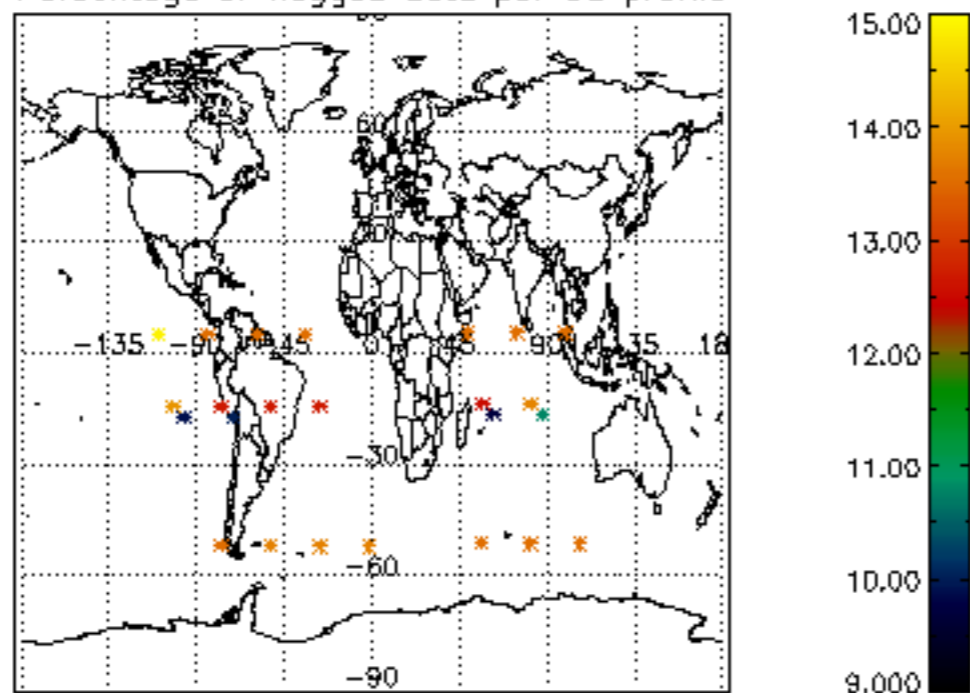




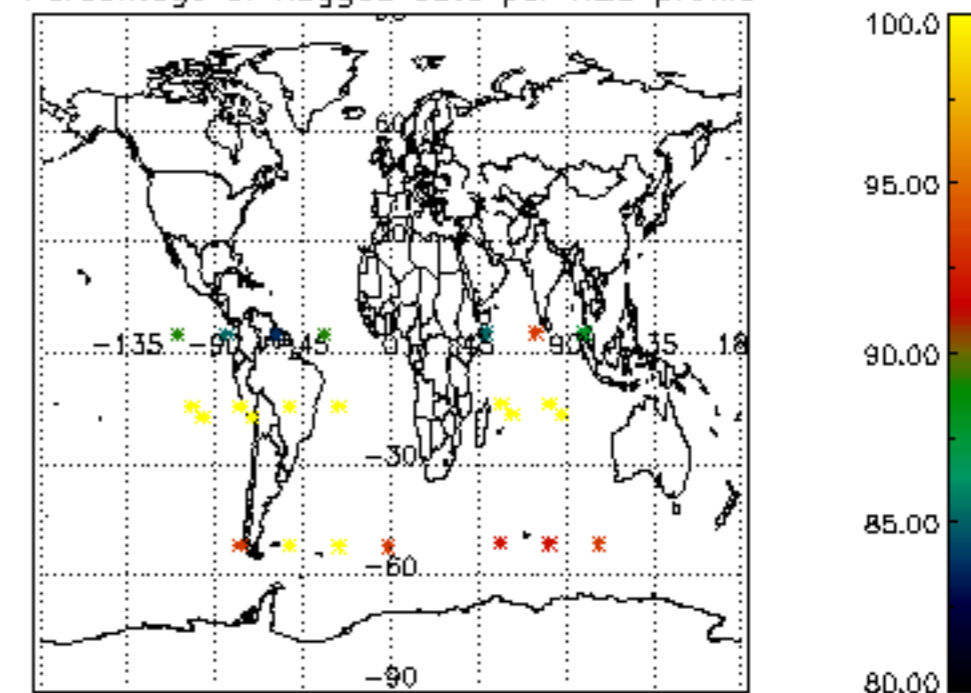




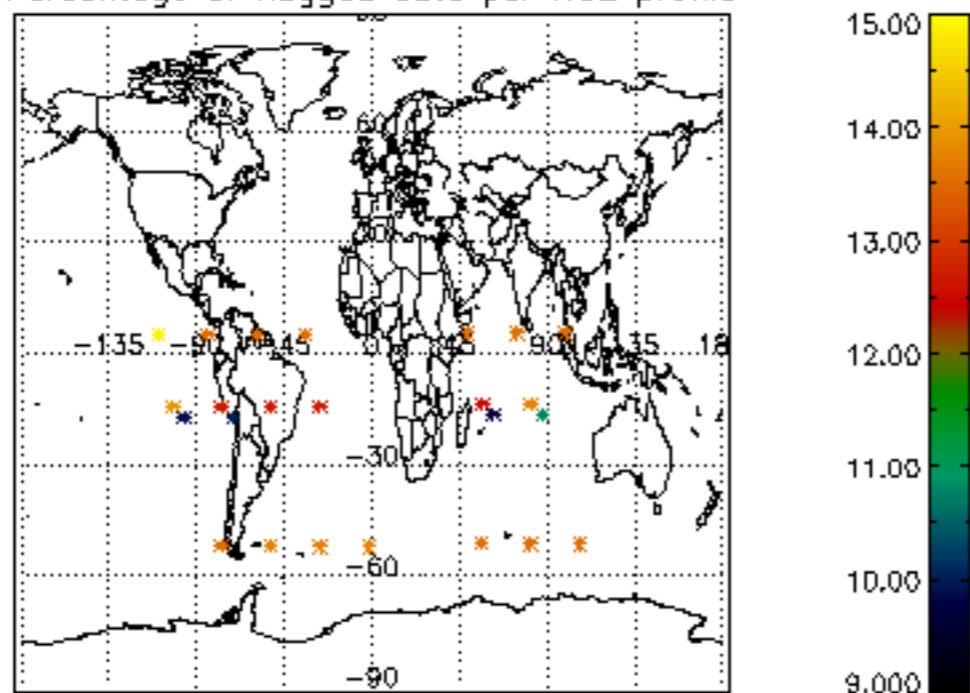
Percentage of flagged data per D3 profile



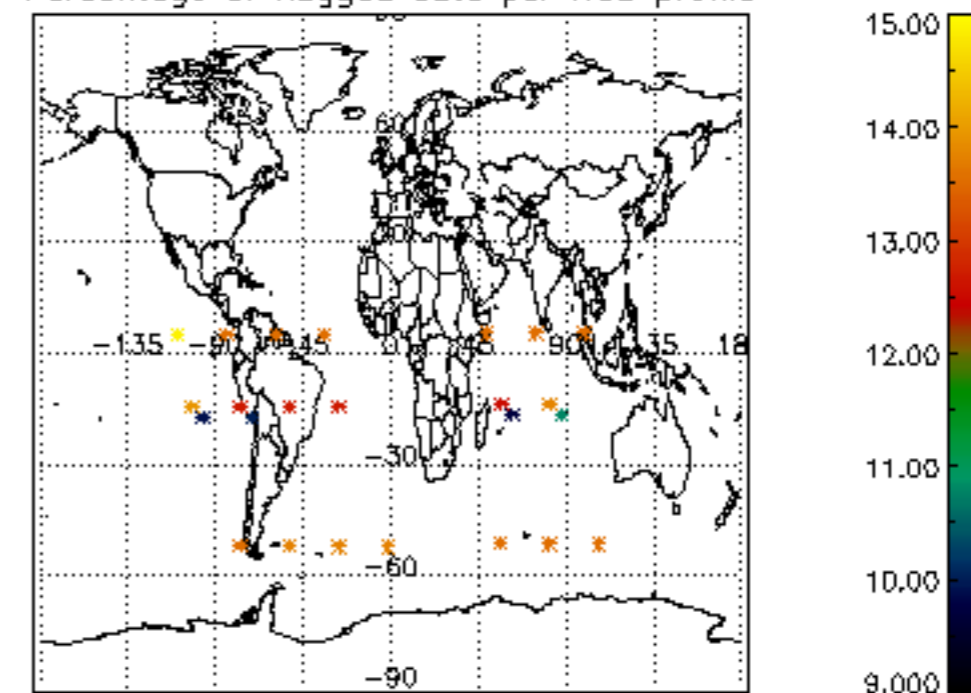
Percentage of flagged data per H2O profile

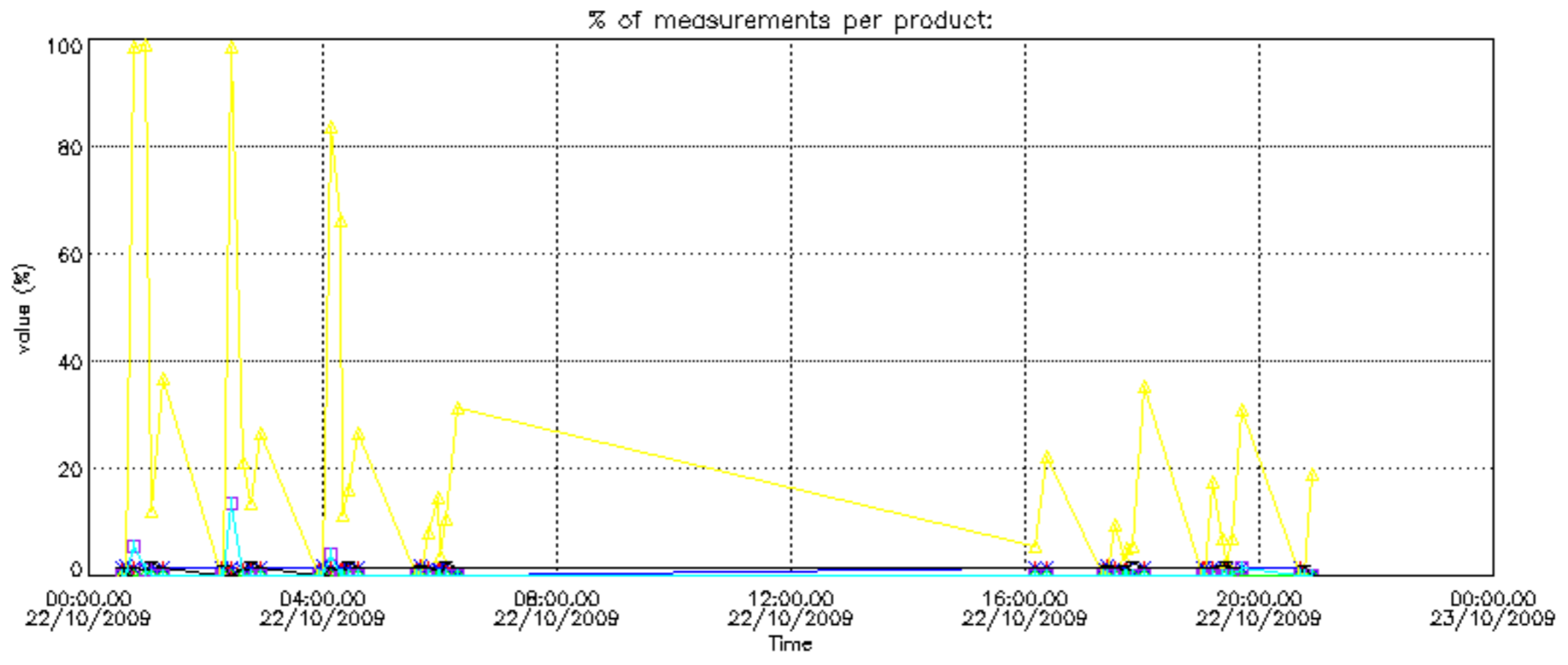


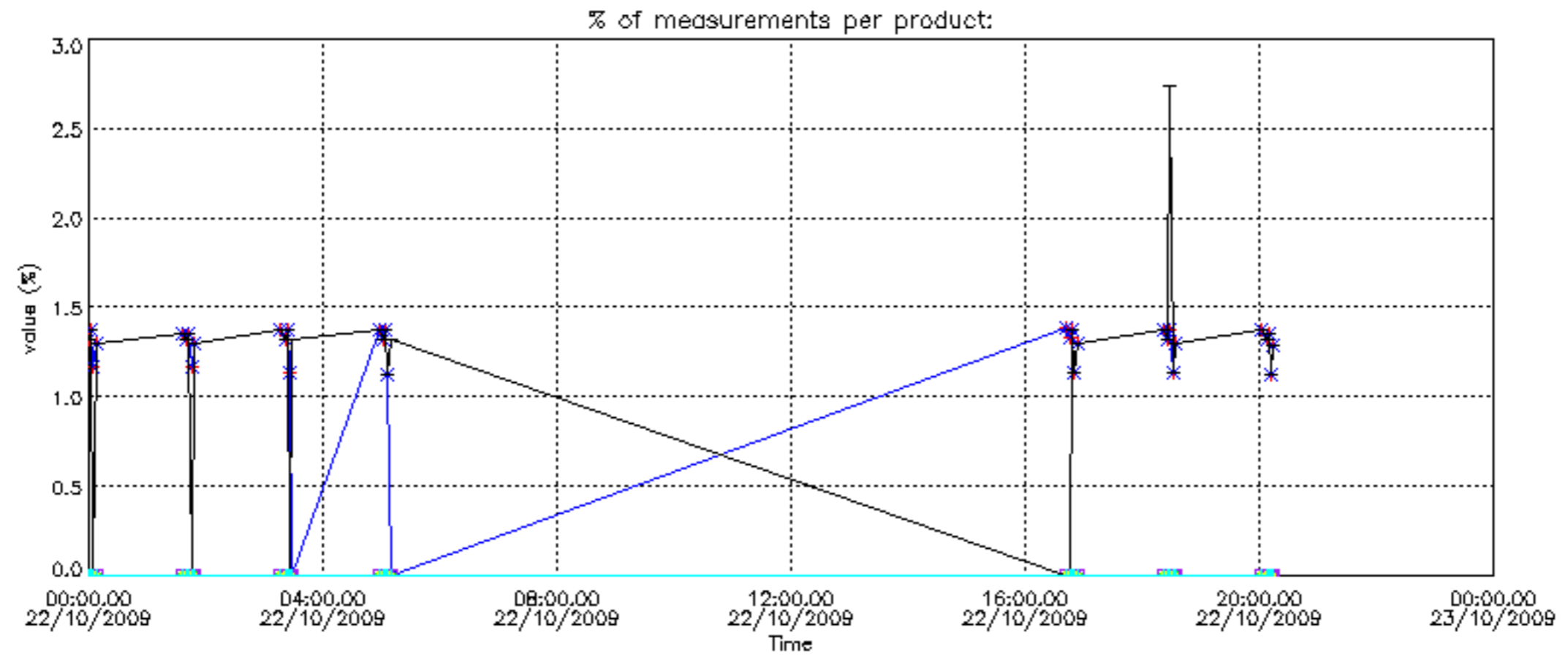
Percentage of flagged data per NO2 profile



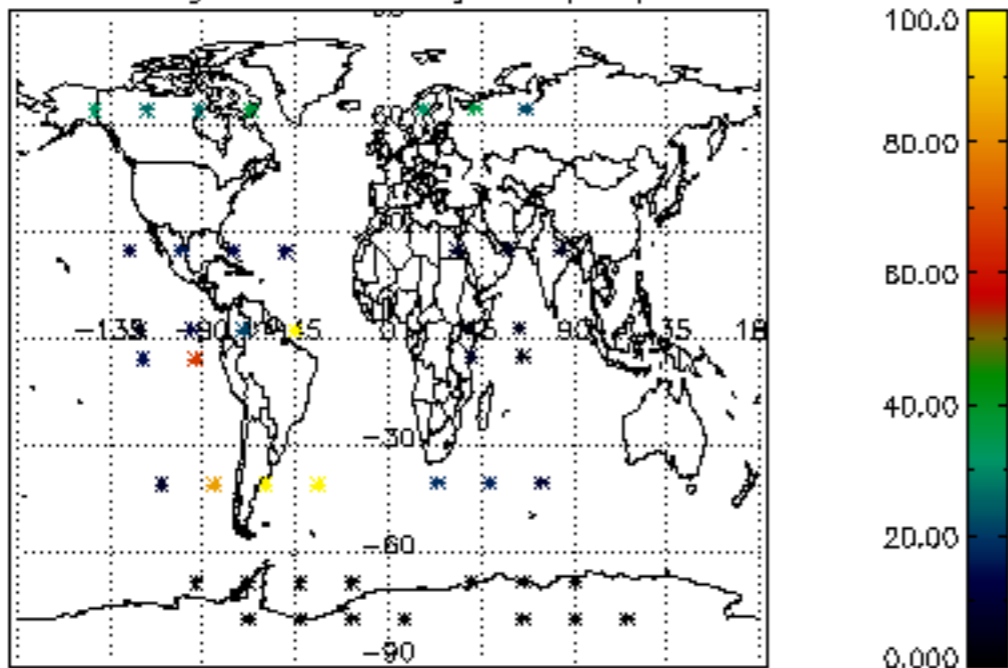
Percentage of flagged data per NO3 profile



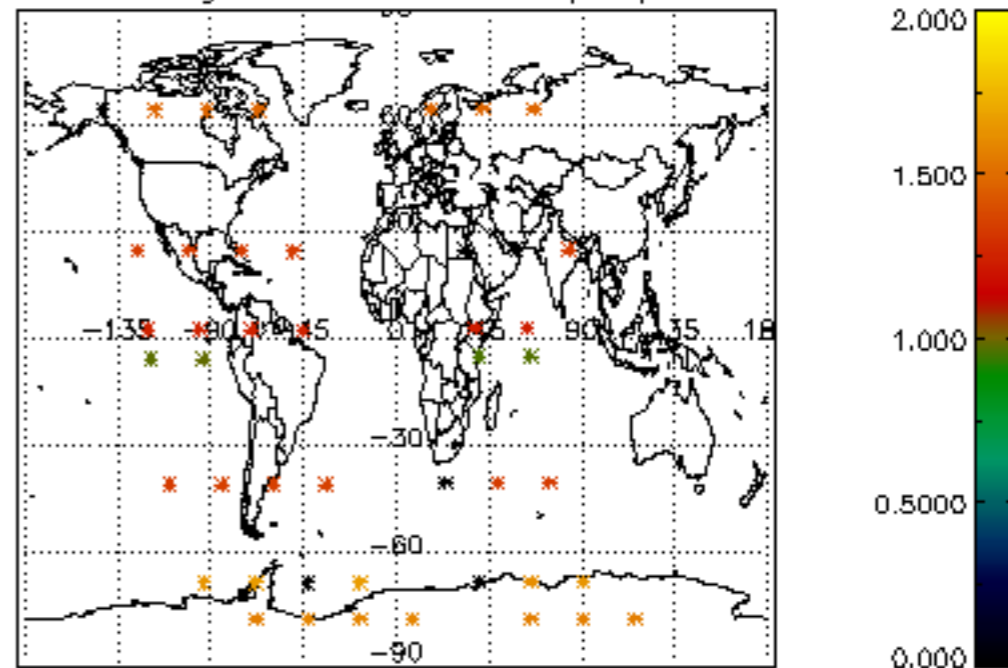




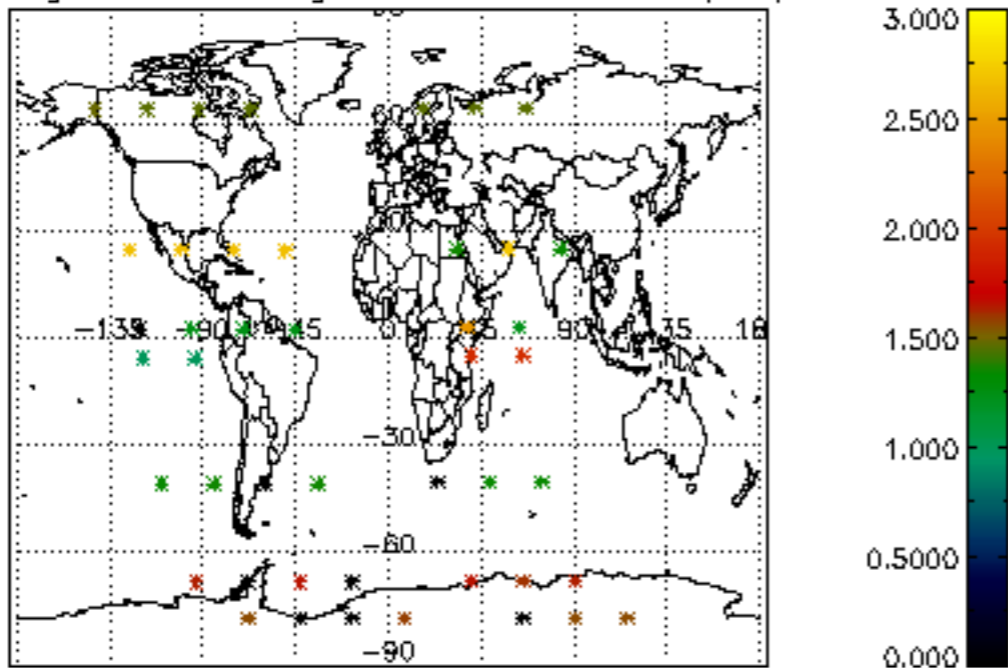
Percentage of cosmic ray hits per profile



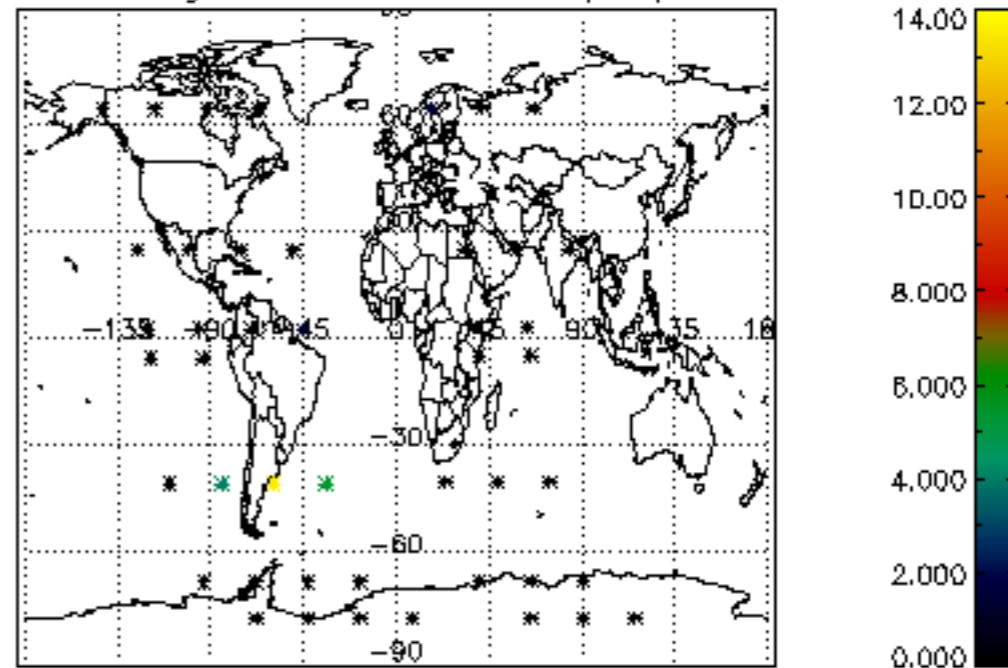
Percentage of datation errors per profile



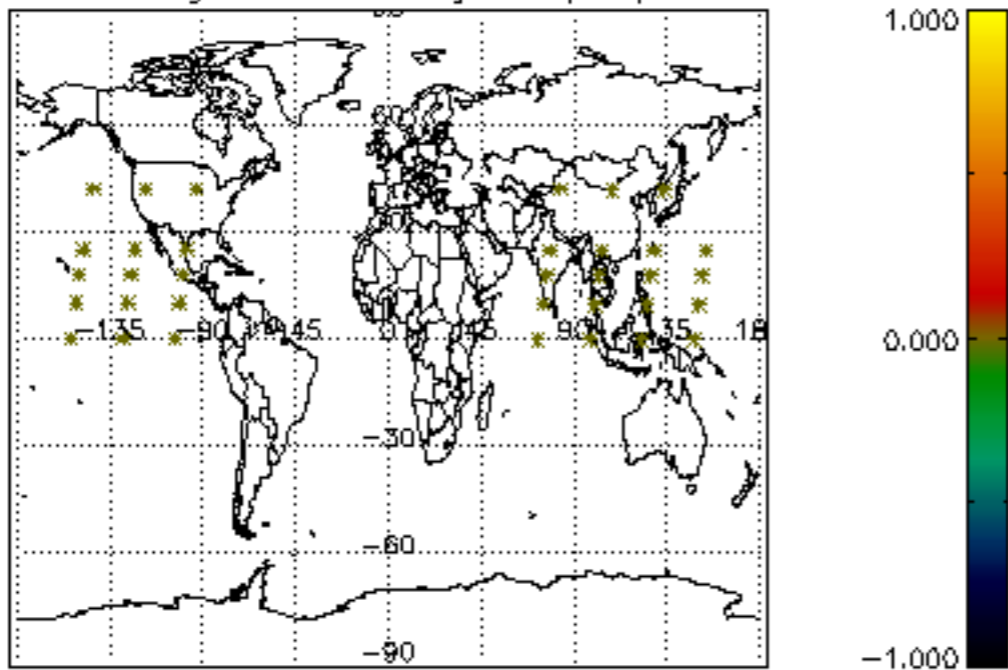
Percentage of star falling outside central band per profile



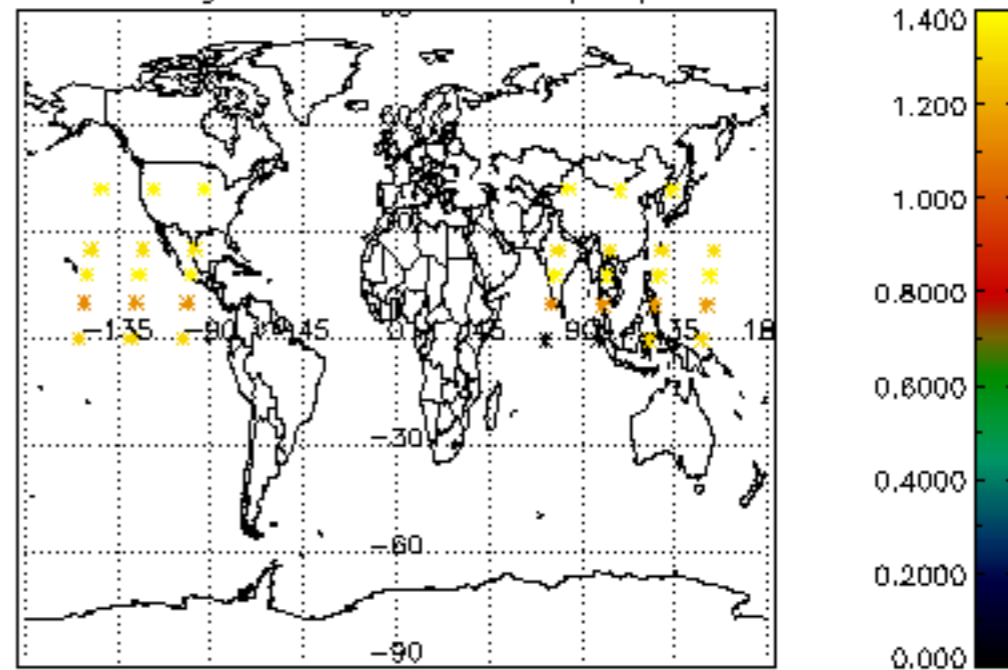
Percentage of saturation errors per profile



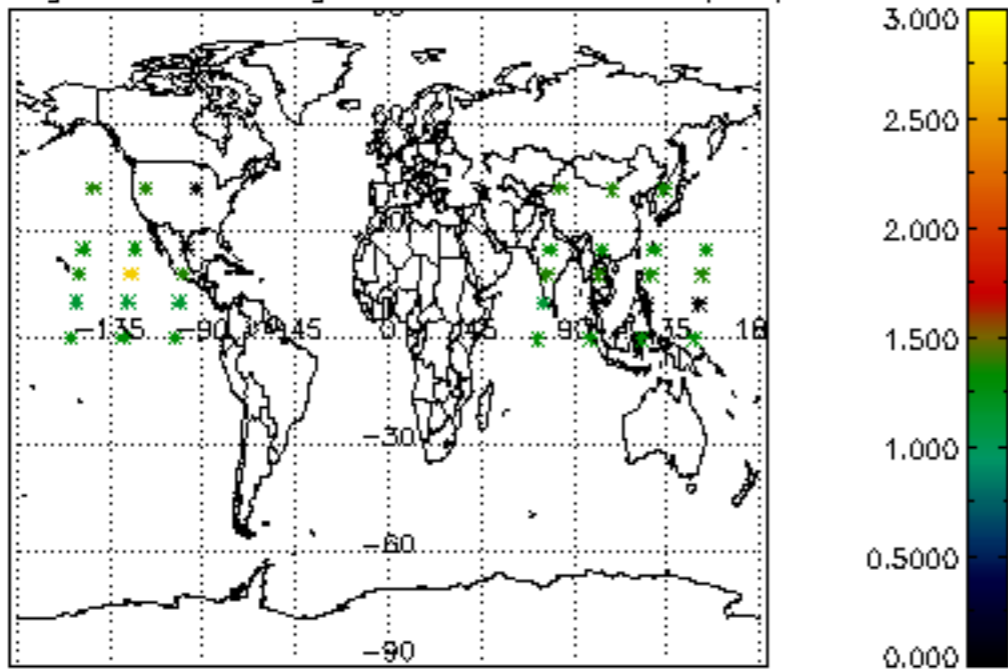
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

