

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	22APR2013 17:45:20
Data source version	GOMOS/6.01
Start time of products	25-03-2007 (25MAR2007 00:00:00)
Stop time of products	26-03-2007 (26MAR2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	88
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

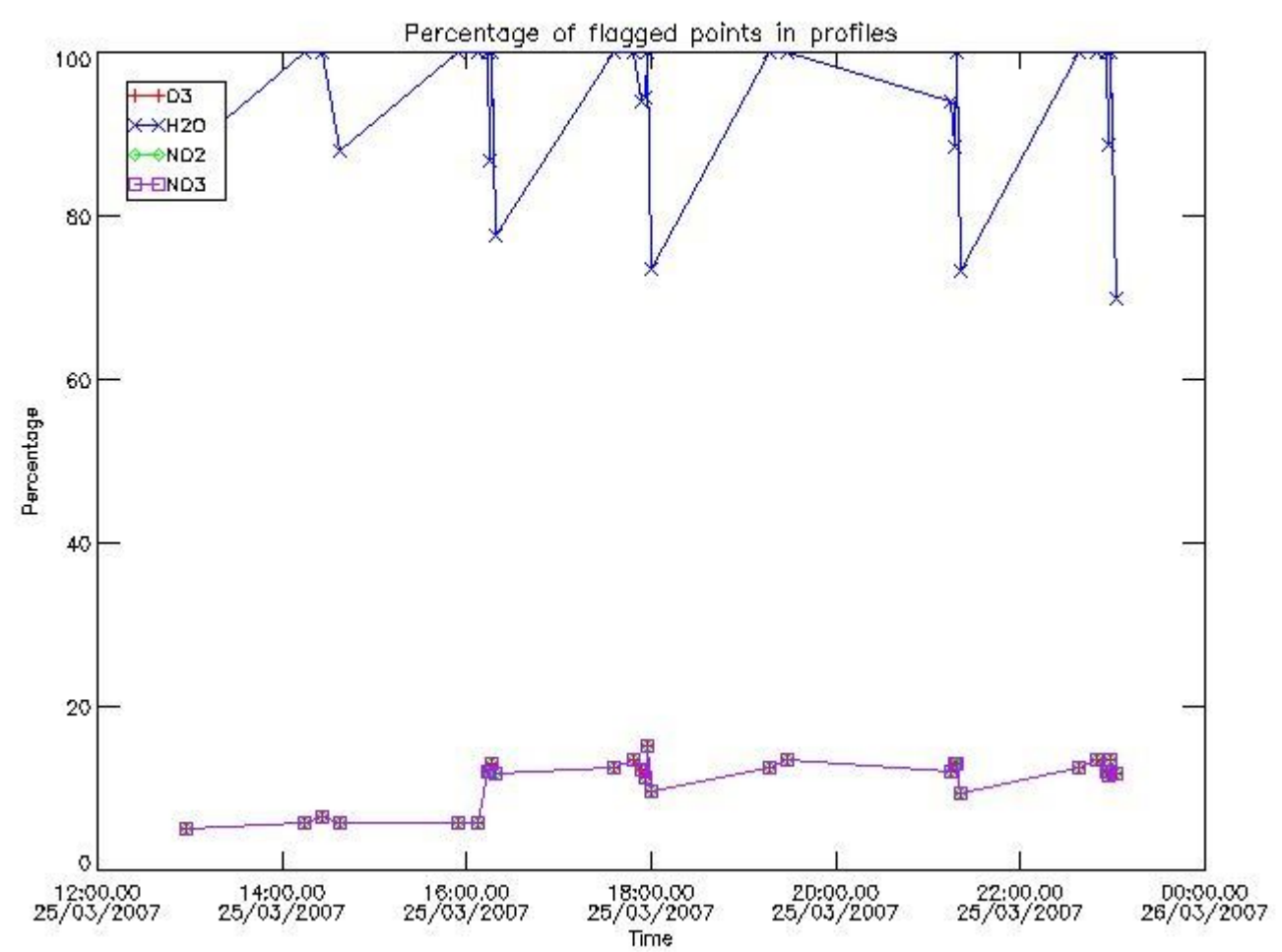
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070325_125714_000001022056_00382_26488_3662.N1	25-MAR-2007 12:57:14	Dark	102.00	4	Alp1Cen	-0.010000	5800.0	204	26488	No
2	GOM_NL__2PRFIN20070325_125957_000000942056_00382_26488_3663.N1	25-MAR-2007 12:59:57	Straylight	94.000	12	Alp1Cru	0.77500	30000.	188	26488	No
3	GOM_NL__2PRFIN20070325_130308_000000962056_00382_26488_3664.N1	25-MAR-2007 13:03:08	Straylight	96.000	64	Gam Cen	2.2000	10600.	192	26488	No
4	GOM_NL__2PRFIN20070325_132214_000000902056_00382_26488_3665.N1	25-MAR-2007 13:22:14	Bright	89.500	22	32Alp Leo	1.3600	15200.	179	26488	No
5	GOM_NL__2PRFIN20070325_132420_000000852056_00382_26488_3666.N1	25-MAR-2007 13:24:20	Bright	85.000	51	41Gam1Leo	2.0100	4500.0	170	26488	No
6	GOM_NL__2PRFIN20070325_134407_000000852056_00382_26488_3667.N1	25-MAR-2007 13:44:07	Bright	85.000	49	1Alp UMi	1.9900	6300.0	170	26488	No
7	GOM_NL__2PRFIN20070325_135153_000001062056_00382_26488_3668.N1	25-MAR-2007 13:51:53	Bright	106.00	89	5Alp Cep	2.4510	8000.0	212	26488	No
8	GOM_NL__2PRFIN20070325_141121_000000922056_00382_26488_3669.N1	25-MAR-2007 14:11:21	Twilight	91.500	154	22Bet Aqr	2.8990	5700.0	183	26488	No
9	GOM_NL__2PRFIN20070325_141401_000000902056_00382_26488_3670.N1	25-MAR-2007 14:14:01	Dark	90.000	142	49Del Cap	2.8500	8900.0	180	26488	No
10	GOM_NL__2PRFIN20070325_142607_000000872056_00382_26488_3671.N1	25-MAR-2007 14:26:07	Dark	86.500	45	Alp Pav	1.9400	26000.	173	26488	No
11	GOM_NL__2PRFIN20070325_143751_000000962056_00383_26489_3678.N1	25-MAR-2007 14:37:51	Dark	95.500	4	Alp1Cen	-0.010000	5800.0	191	26489	No
12	GOM_NL__2PRFIN20070325_144033_000000892056_00383_26489_3679.N1	25-MAR-2007 14:40:33	Straylight	89.000	12	Alp1Cru	0.77500	30000.	178	26489	No
13	GOM_NL__2PRFIN20070325_144344_000000922056_00383_26489_3680.N1	25-MAR-2007 14:43:44	Straylight	91.500	64	Gam Cen	2.2000	10600.	183	26489	No
14	GOM_NL__2PRFIN20070325_150250_000000872056_00383_26489_3681.N1	25-MAR-2007 15:02:50	Bright	86.500	22	32Alp Leo	1.3600	15200.	173	26489	No
15	GOM_NL__2PRFIN20070325_150456_000000862056_00383_26489_3682.N1	25-MAR-2007 15:04:56	Bright	86.000	51	41Gam1Leo	2.0100	4500.0	172	26489	No
16	GOM_NL__2PRFIN20070325_152443_000000872056_00383_26489_3683.N1	25-MAR-2007 15:24:43	Bright	87.000	49	1Alp UMi	1.9900	6300.0	174	26489	No
17	GOM_NL__2PRFIN20070325_153229_000001062056_00383_26489_3684.N1	25-MAR-2007 15:32:29	Bright	106.00	89	5Alp Cep	2.4510	8000.0	212	26489	No
18	GOM_NL__2PRFIN20070325_155157_000000932056_00383_26489_3685.N1	25-MAR-2007 15:51:57	Twilight	92.500	154	22Bet Aqr	2.8990	5700.0	185	26489	No
19	GOM_NL__2PRFIN20070325_155437_000000902056_00383_26489_3686.N1	25-MAR-2007 15:54:37	Dark	89.500	142	49Del Cap	2.8500	8900.0	179	26489	No
20	GOM_NL__2PRFIN20070325_160644_000000882056_00383_26489_3687.N1	25-MAR-2007 16:06:44	Dark	87.500	45	Alp Pav	1.9400	26000.	175	26489	No
21	GOM_NL__2PRFIN20070325_161316_000000422056_00384_26490_3700.N1	25-MAR-2007 16:13:16	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	26490	No
22	GOM_NL__2PRFIN20070325_161457_000000422056_00384_26490_3701.N1	25-MAR-2007 16:14:57	Dark	42.000	43	Alp TrA	1.9100	4250.0	84	26490	No
23	GOM_NL__2PRFIN20070325_161638_000000402056_00384_26490_3702.N1	25-MAR-2007 16:16:38	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	26490	No
24	GOM_NL__2PRFIN20070325_161920_000000432056_00384_26490_3703.N1	25-MAR-2007 16:19:20	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	26490	No
25	GOM_NL__2PRFIN20070325_162159_000000372056_00384_26490_3704.N1	25-MAR-2007 16:21:59	Straylight	37.000	12	Alp1Cru	0.77500	30000.	74	26490	No
26	GOM_NL__2PRFIN20070325_162322_000000462056_00384_26490_3705.N1	25-MAR-2007 16:23:22	Straylight	45.500	26	Gam Cru	1.6240	2900.0	91	26490	No
27	GOM_NL__2PRFIN20070325_162514_000000422056_00384_26490_3706.N1	25-MAR-2007 16:25:14	Straylight	41.500	64	Gam Cen	2.2000	10600.	83	26490	No
28	GOM_NL__2PRFIN20070325_164416_000000372056_00384_26490_3707.N1	25-MAR-2007 16:44:16	Bright	36.500	22	32Alp Leo	1.3600	15200.	73	26490	No
29	GOM_NL__2PRFIN20070325_164622_000000362056_00384_26490_3708.N1	25-MAR-2007 16:46:22	Bright	35.500	51	41Gam1Leo	2.0100	4500.0	71	26490	No
30	GOM_NL__2PRFIN20070325_164745_000000342056_00384_26490_3709.N1	25-MAR-2007 16:47:45	Bright	34.000	166	17Eps Leo	2.9800	6000.0	68	26490	No
31	GOM_NL__2PRFIN20070325_165331_000000382056_00384_26490_3710.N1	25-MAR-2007 16:53:31	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	26490	No
32	GOM_NL__2PRFIN20070325_165648_000000362056_00384_26490_3711.N1	25-MAR-2007 16:56:48	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	26490	No
33	GOM_NL__2PRFIN20070325_165820_000000352056_00384_26490_3712.N1	25-MAR-2007 16:58:20	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	26490	No
34	GOM_NL__2PRFIN20070325_170611_000000362056_00384_26490_3713.N1	25-MAR-2007 17:06:11	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	26490	No
35	GOM_NL__2PRFIN20070325_171358_000000392056_00384_26490_3714.N1	25-MAR-2007 17:13:58	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	26490	No
36	GOM_NL__2PRFIN20070325_173324_000000422056_00384_26490_3715.N1	25-MAR-2007 17:33:24	Twilight	42.000	154	22Bet Aqr	2.8990	5700.0	84	26490	No
37	GOM_NL__2PRFIN20070325_173603_000000412056_00384_26490_3716.N1	25-MAR-2007 17:36:03	Dark	40.500	142	49Del Cap	2.8500	8900.0	81	26490	No
38	GOM_NL__2PRFIN20070325_174810_000000382056_00384_26490_3717.N1	25-MAR-2007 17:48:10	Dark	38.000	45	Alp Pav	1.9400	26000.	76	26490	No
39	GOM_NL__2PRFIN20070325_175352_000000422056_00385_26491_3715.N1	25-MAR-2007 17:53:52	Dark	41.500	141	Bet Ara	2.8400	4600.0	83	26491	No
40	GOM_NL__2PRFIN20070325_175533_000000452056_00385_26491_3716.N1	25-MAR-2007 17:55:33	Dark	45.000	43	Alp TrA	1.9100	4250.0	90	26491	No
41	GOM_NL__2PRFIN20070325_175714_000000372056_00385_26491_3717.N1	25-MAR-2007 17:57:14	Dark	37.000	134	Bet TrA	2.8100	6600.0	74	26491	No
42	GOM_NL__2PRFIN20070325_175957_000000542056_00385_26491_3718.N1	25-MAR-2007 17:59:57	Dark	53.500	4	Alp1Cen	-0.010000	5800.0	107	26491	No

43	GOM_NL__2PRFIN20070325_180236_000000492056_00385_26491_3719.N1	25-MAR-2007 18:02:36	Straylight	49.000	12	Alp1Cru	0.77500	30000.	98	26491	No
44	GOM_NL__2PRFIN20070325_180359_000000472056_00385_26491_3720.N1	25-MAR-2007 18:03:59	Straylight	46.500	26	Gam Cru	1.6240	2900.0	93	26491	No
45	GOM_NL__2PRFIN20070325_180550_000000402056_00385_26491_3721.N1	25-MAR-2007 18:05:50	Straylight	40.000	64	Gam Cen	2.2000	10600.	80	26491	No
46	GOM_NL__2PRFIN20070325_182452_000000372056_00385_26491_3722.N1	25-MAR-2007 18:24:52	Bright	37.000	22	32Alp Leo	1.3600	15200.	74	26491	No
47	GOM_NL__2PRFIN20070325_182658_000000362056_00385_26491_3723.N1	25-MAR-2007 18:26:58	Bright	36.000	51	41Gam1Leo	2.0100	4500.0	72	26491	No
48	GOM_NL__2PRFIN20070325_182822_000000362056_00385_26491_3724.N1	25-MAR-2007 18:28:22	Bright	35.500	166	17Eps Leo	2.9800	6000.0	71	26491	No
49	GOM_NL__2PRFIN20070325_183406_000000382056_00385_26491_3725.N1	25-MAR-2007 18:34:06	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	26491	No
50	GOM_NL__2PRFIN20070325_183724_000000352056_00385_26491_3726.N1	25-MAR-2007 18:37:24	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	26491	No
51	GOM_NL__2PRFIN20070325_183856_000000352056_00385_26491_3727.N1	25-MAR-2007 18:38:56	Bright	34.500	36	50Alp UMa	1.8000	6300.0	69	26491	No
52	GOM_NL__2PRFIN20070325_184647_000000362056_00385_26491_3728.N1	25-MAR-2007 18:46:47	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	26491	No
53	GOM_NL__2PRFIN20070325_185434_000000532056_00385_26491_3729.N1	25-MAR-2007 18:54:34	Bright	53.000	89	5Alp Cep	2.4510	8000.0	106	26491	No
54	GOM_NL__2PRFIN20070325_191400_000000402056_00385_26491_3730.N1	25-MAR-2007 19:14:00	Twilight	40.000	154	22Bet Aqr	2.8990	5700.0	80	26491	No
55	GOM_NL__2PRFIN20070325_191639_000000412056_00385_26491_3731.N1	25-MAR-2007 19:16:39	Dark	41.000	142	49Del Cap	2.8500	8900.0	82	26491	No
56	GOM_NL__2PRFIN20070325_192846_000000382056_00385_26491_3732.N1	25-MAR-2007 19:28:46	Dark	38.000	45	Alp Pav	1.9400	26000.	76	26491	No
57	GOM_NL__2PRFIN20070325_211506_000000432056_00387_26493_3768.N1	25-MAR-2007 21:15:06	Dark	42.500	141	Bet Ara	2.8400	4600.0	85	26493	No
58	GOM_NL__2PRFIN20070325_211646_000000392056_00387_26493_3769.N1	25-MAR-2007 21:16:46	Dark	39.000	43	Alp TrA	1.9100	4250.0	78	26493	No
59	GOM_NL__2PRFIN20070325_211827_000000402056_00387_26493_3770.N1	25-MAR-2007 21:18:27	Dark	39.500	134	Bet TrA	2.8100	6600.0	79	26493	No
60	GOM_NL__2PRFIN20070325_212109_000000552056_00387_26493_3771.N1	25-MAR-2007 21:21:09	Dark	54.500	4	Alp1Cen	-0.010000	5800.0	109	26493	No
61	GOM_NL__2PRFIN20070325_212348_000000392056_00387_26493_3772.N1	25-MAR-2007 21:23:48	Straylight	38.500	12	Alp1Cru	0.77500	30000.	77	26493	No
62	GOM_NL__2PRFIN20070325_212511_000000532056_00387_26493_3773.N1	25-MAR-2007 21:25:11	Straylight	52.500	26	Gam Cru	1.6240	2900.0	105	26493	No
63	GOM_NL__2PRFIN20070325_212703_000000402056_00387_26493_3774.N1	25-MAR-2007 21:27:03	Straylight	39.500	64	Gam Cen	2.2000	10600.	79	26493	No
64	GOM_NL__2PRFIN20070325_214604_000000372056_00387_26493_3775.N1	25-MAR-2007 21:46:04	Bright	36.500	22	32Alp Leo	1.3600	15200.	73	26493	No
65	GOM_NL__2PRFIN20070325_214810_000000372056_00387_26493_3776.N1	25-MAR-2007 21:48:10	Bright	36.500	51	41Gam1Leo	2.0100	4500.0	73	26493	No
66	GOM_NL__2PRFIN20070325_214934_000000352056_00387_26493_3777.N1	25-MAR-2007 21:49:34	Bright	34.500	166	17Eps Leo	2.9800	6000.0	69	26493	No
67	GOM_NL__2PRFIN20070325_215518_000000392056_00387_26493_3778.N1	25-MAR-2007 21:55:18	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	26493	No
68	GOM_NL__2PRFIN20070325_215836_000000372056_00387_26493_3779.N1	25-MAR-2007 21:58:36	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	26493	No
69	GOM_NL__2PRFIN20070325_220007_000000372056_00387_26493_3780.N1	25-MAR-2007 22:00:07	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	26493	No
70	GOM_NL__2PRFIN20070325_220758_000000352056_00387_26493_3781.N1	25-MAR-2007 22:07:58	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	26493	No
71	GOM_NL__2PRFIN20070325_221545_000000362056_00387_26493_3782.N1	25-MAR-2007 22:15:45	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	26493	No
72	GOM_NL__2PRFIN20070325_223512_000000432056_00387_26493_3783.N1	25-MAR-2007 22:35:12	Twilight	42.500	154	22Bet Aqr	2.8990	5700.0	85	26493	No
73	GOM_NL__2PRFIN20070325_223752_000000412056_00387_26493_3784.N1	25-MAR-2007 22:37:52	Dark	40.500	142	49Del Cap	2.8500	8900.0	81	26493	No
74	GOM_NL__2PRFIN20070325_224958_000000382056_00387_26493_3785.N1	25-MAR-2007 22:49:58	Dark	37.500	45	Alp Pav	1.9400	26000.	75	26493	No
75	GOM_NL__2PRFIN20070325_225542_000000422056_00388_26494_3802.N1	25-MAR-2007 22:55:42	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	26494	No
76	GOM_NL__2PRFIN20070325_225722_000000452056_00388_26494_3803.N1	25-MAR-2007 22:57:22	Dark	44.500	43	Alp TrA	1.9100	4250.0	89	26494	No
77	GOM_NL__2PRFIN20070325_225903_000000382056_00388_26494_3804.N1	25-MAR-2007 22:59:03	Dark	38.000	134	Bet TrA	2.8100	6600.0	76	26494	No
78	GOM_NL__2PRFIN20070325_230146_000000472056_00388_26494_3805.N1	25-MAR-2007 23:01:46	Dark	47.000	4	Alp1Cen	-0.010000	5800.0	94	26494	No
79	GOM_NL__2PRFIN20070325_230424_000000472056_00388_26494_3806.N1	25-MAR-2007 23:04:24	Straylight	47.000	12	Alp1Cru	0.77500	30000.	94	26494	No
80	GOM_NL__2PRFIN20070325_230547_000000532056_00388_26494_3807.N1	25-MAR-2007 23:05:47	Straylight	53.000	26	Gam Cru	1.6240	2900.0	106	26494	No
81	GOM_NL__2PRFIN20070325_230739_000000402056_00388_26494_3808.N1	25-MAR-2007 23:07:39	Straylight	39.500	64	Gam Cen	2.2000	10600.	79	26494	No
82	GOM_NL__2PRFIN20070325_232640_000000382056_00388_26494_3809.N1	25-MAR-2007 23:26:40	Bright	37.500	22	32Alp Leo	1.3600	15200.	75	26494	No
83	GOM_NL__2PRFIN20070325_232846_000000352056_00388_26494_3810.N1	25-MAR-2007 23:28:46	Bright	35.000	51	41Gam1Leo	2.0100	4500.0	70	26494	No
84	GOM_NL__2PRFIN20070325_233553_000000362056_00388_26494_3811.N1	25-MAR-2007 23:35:53	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	26494	No
85	GOM_NL__2PRFIN20070325_233911_000000352056_00388_26494_3812.N1	25-MAR-2007 23:39:11	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	26494	No
86	GOM_NL__2PRFIN20070325_234043_000000362056_00388_26494_3813.N1	25-MAR-2007 23:40:43	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	26494	No
87	GOM_NL__2PRFIN20070325_234834_000000332056_00388_26494_3814.N1	25-MAR-2007 23:48:34	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	26494	No
88	GOM_NL__2PRFIN20070325_235621_000000352056_00388_26494_3815.N1	25-MAR-2007 23:56:21	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	26494	No

3. Quality information per product

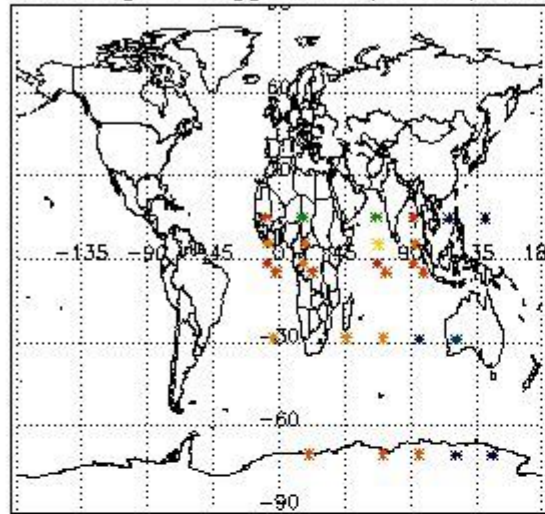
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

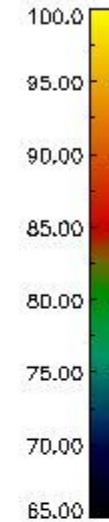
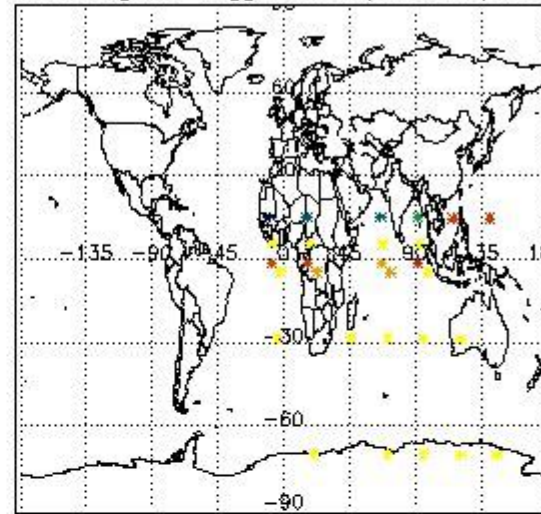


3.2 Plot quality information per product (world map)

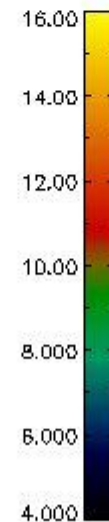
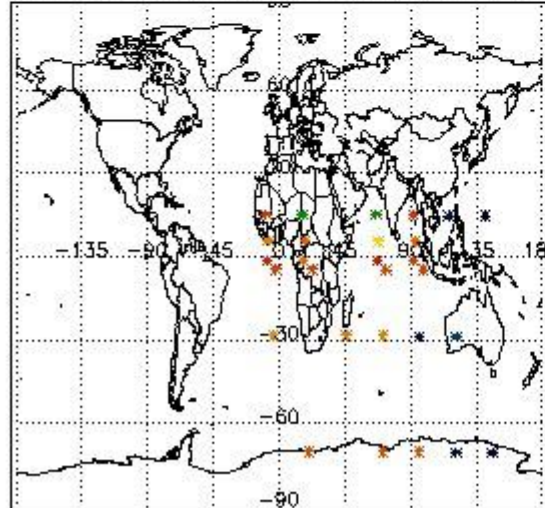
Percentage of flagged data per O3 profile



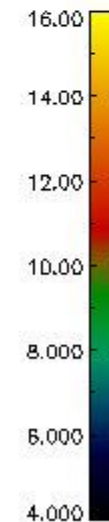
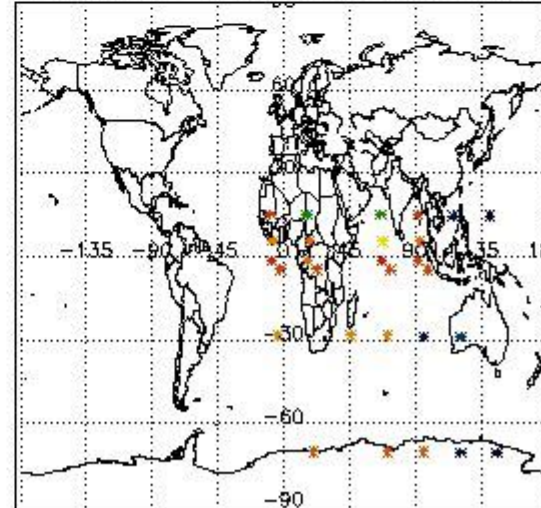
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

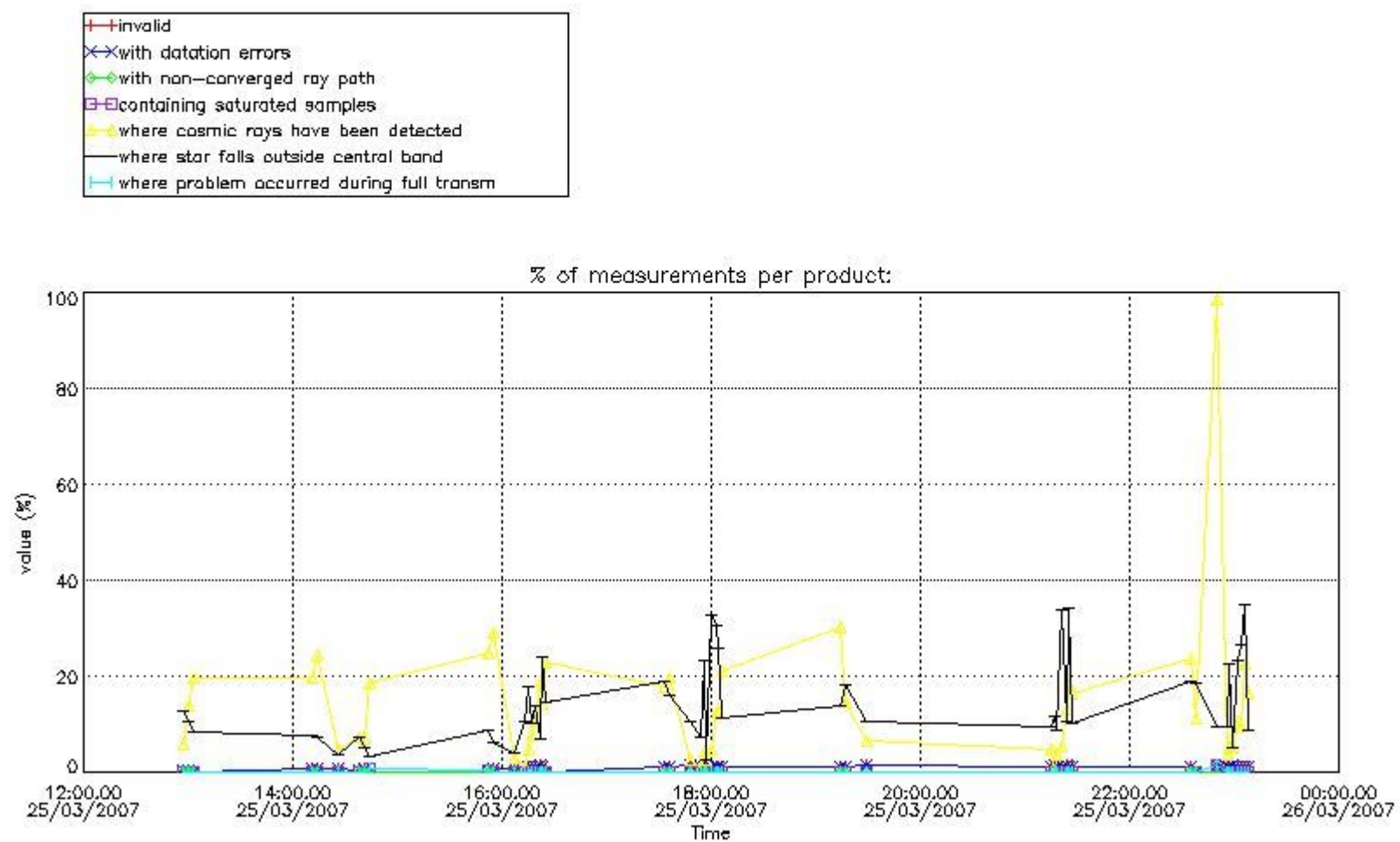


4. Level 1 quality information per product

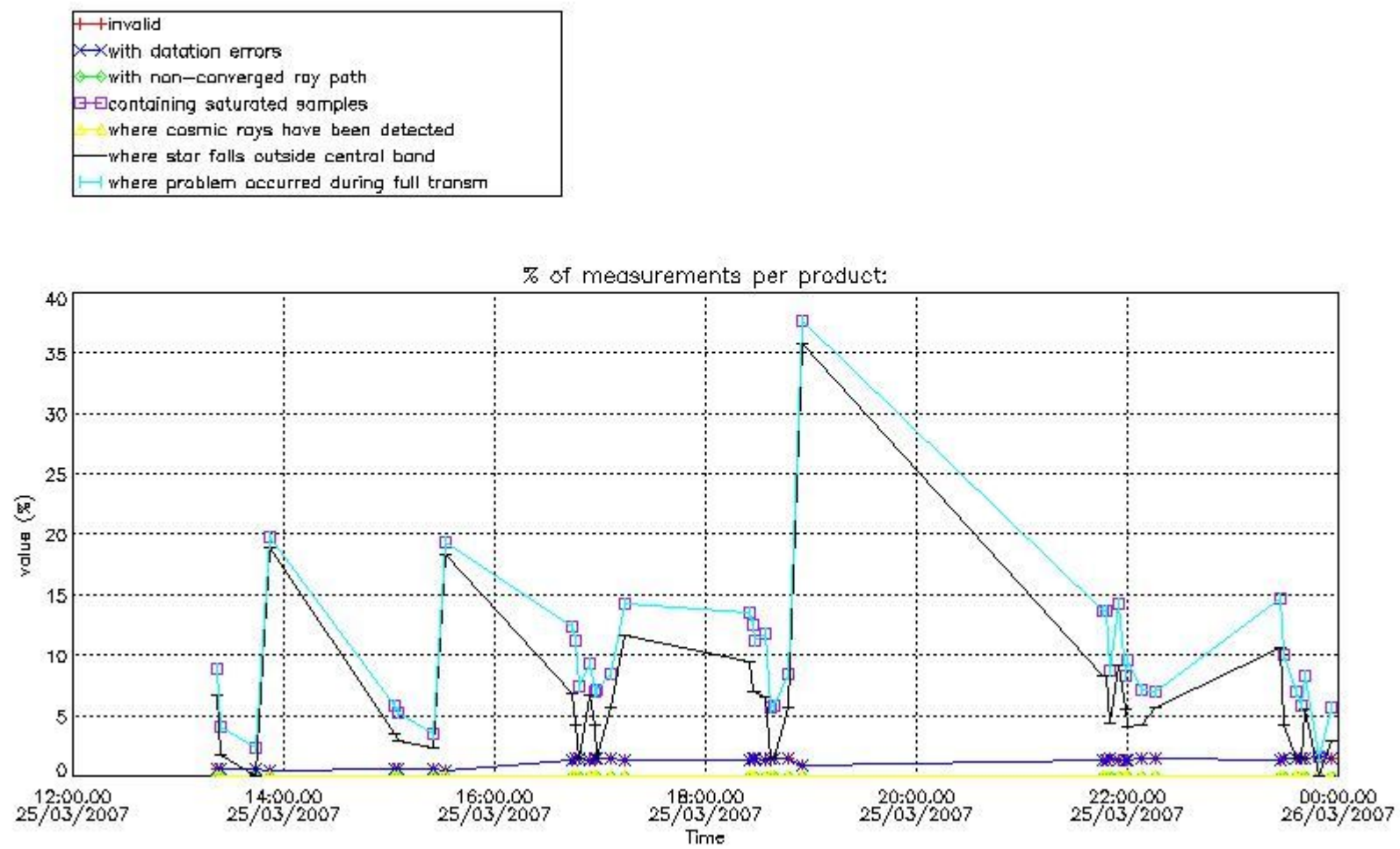
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



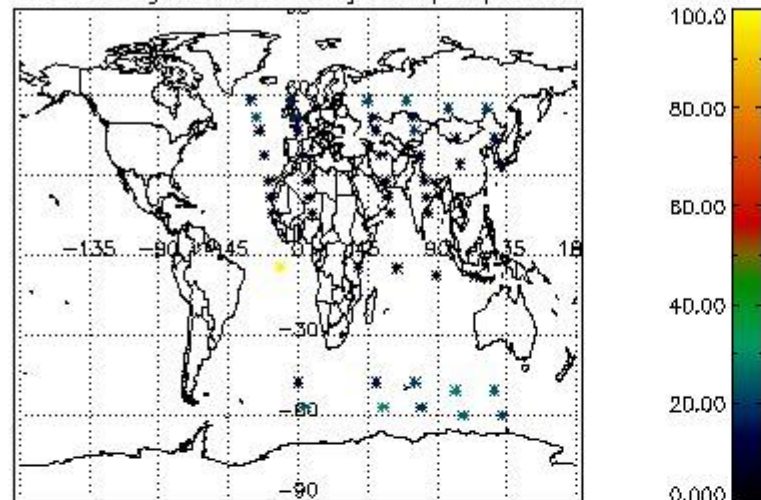
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



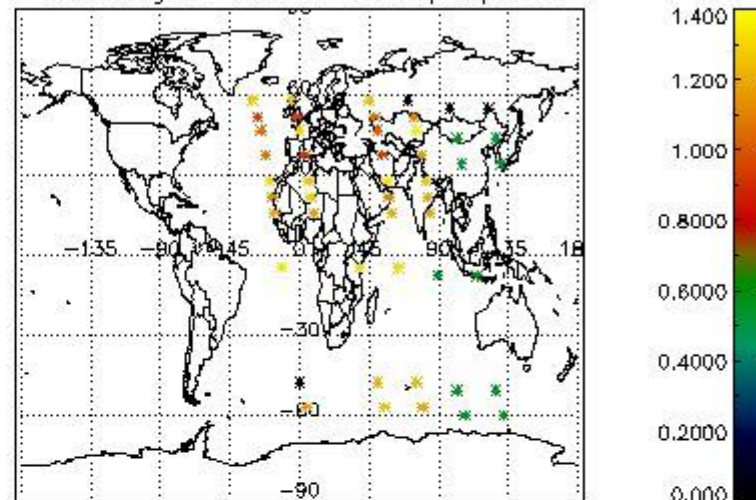
4.2 Plot quality information per product coming from level 1b processing (world map)

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

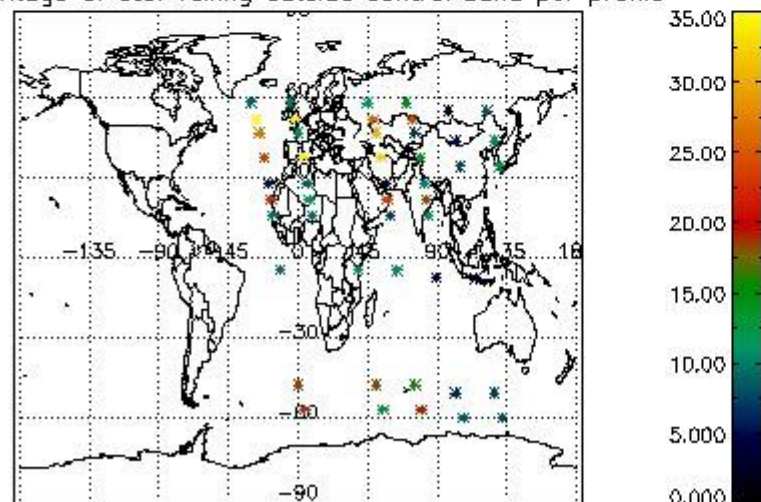
Percentage of cosmic ray hits per profile



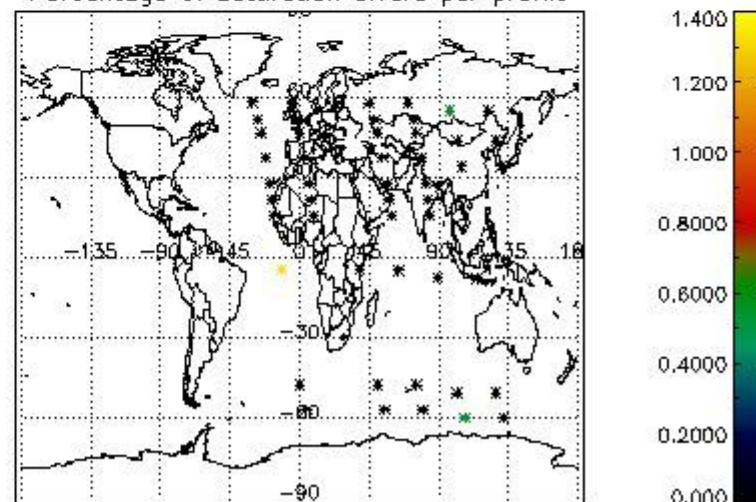
Percentage of datation errors per profile



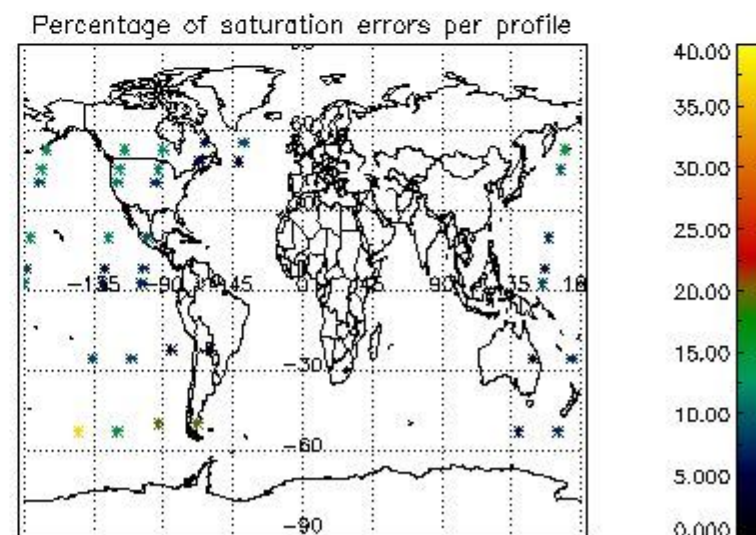
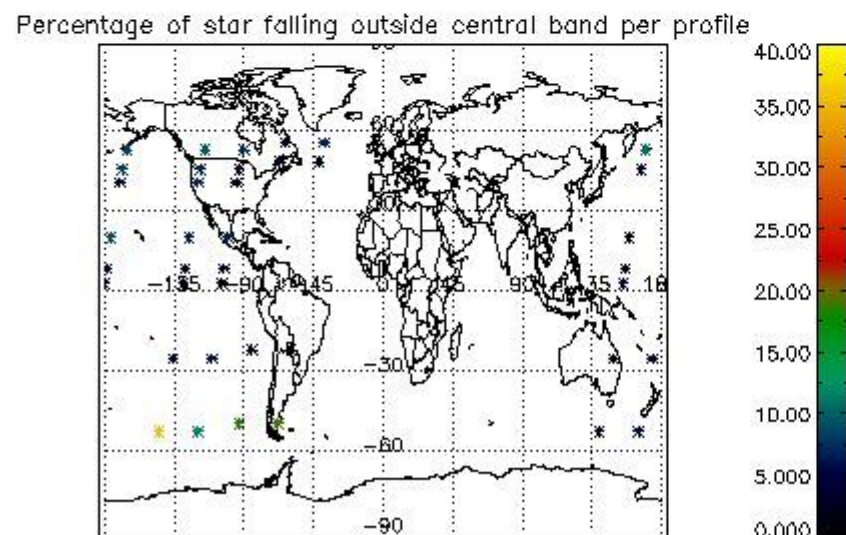
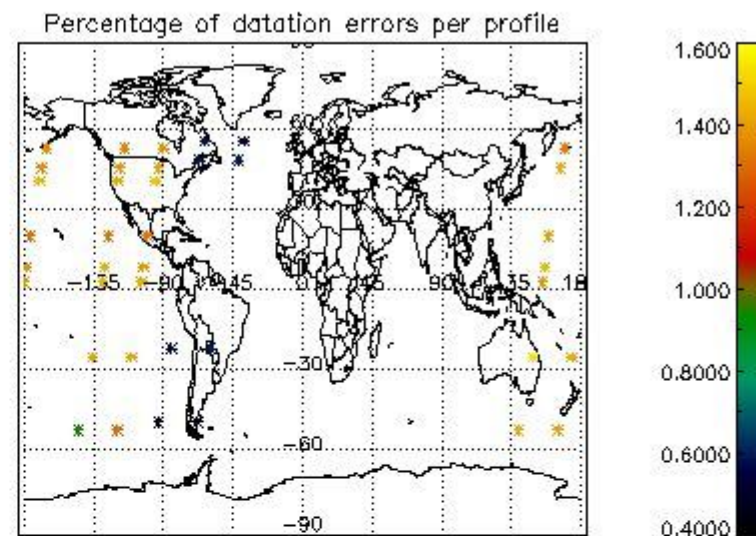
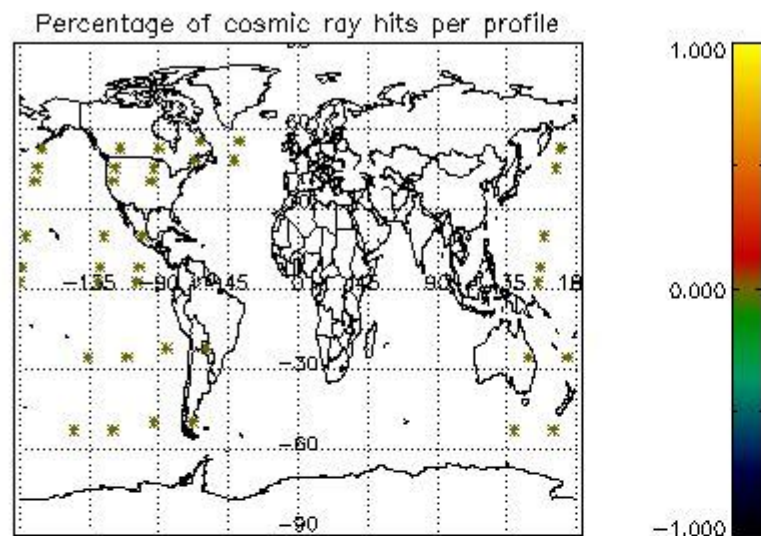
Percentage of star falling outside central band per profile



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

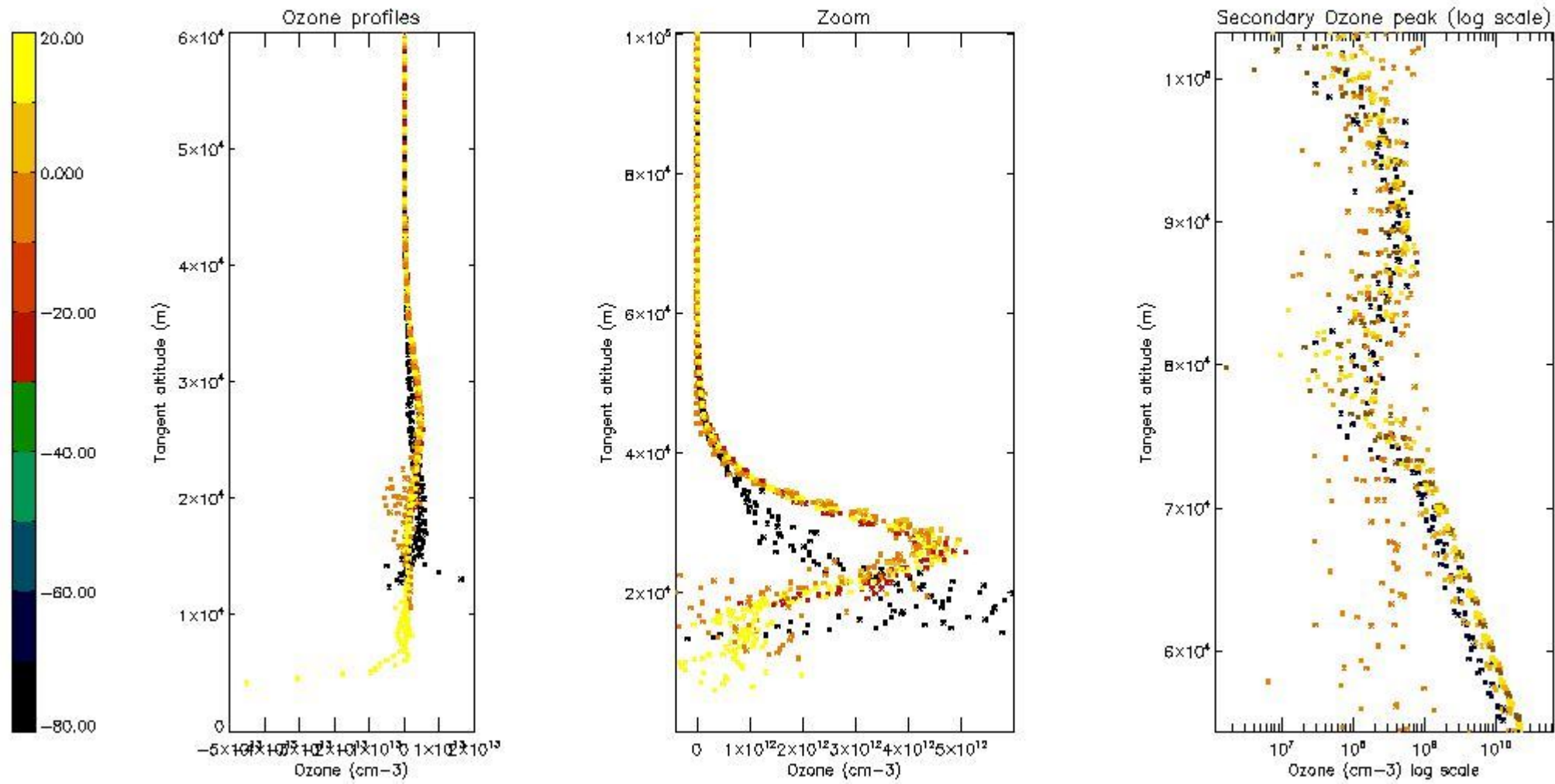
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	12

STD < 10	8
STD < 5	4

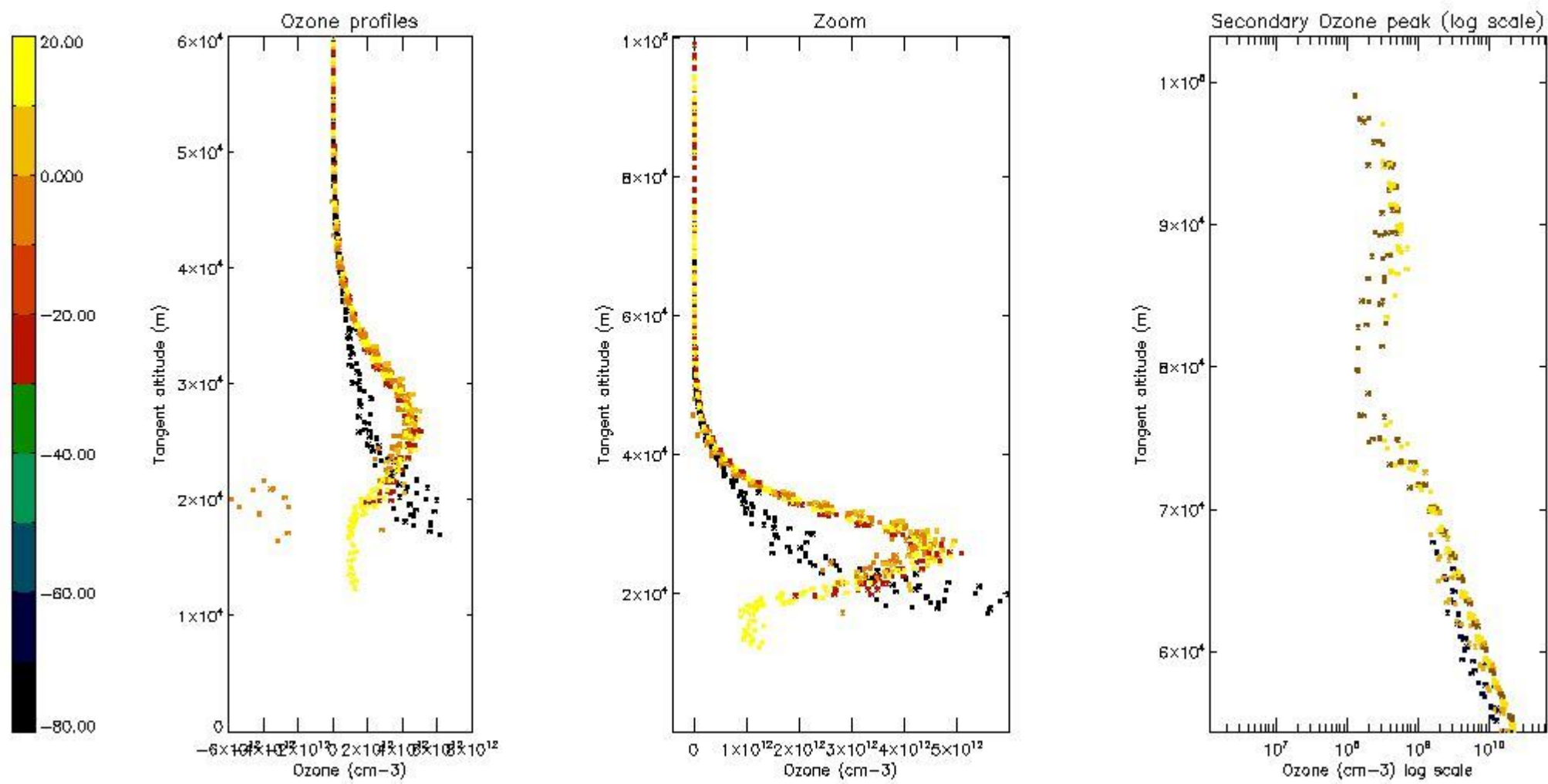
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



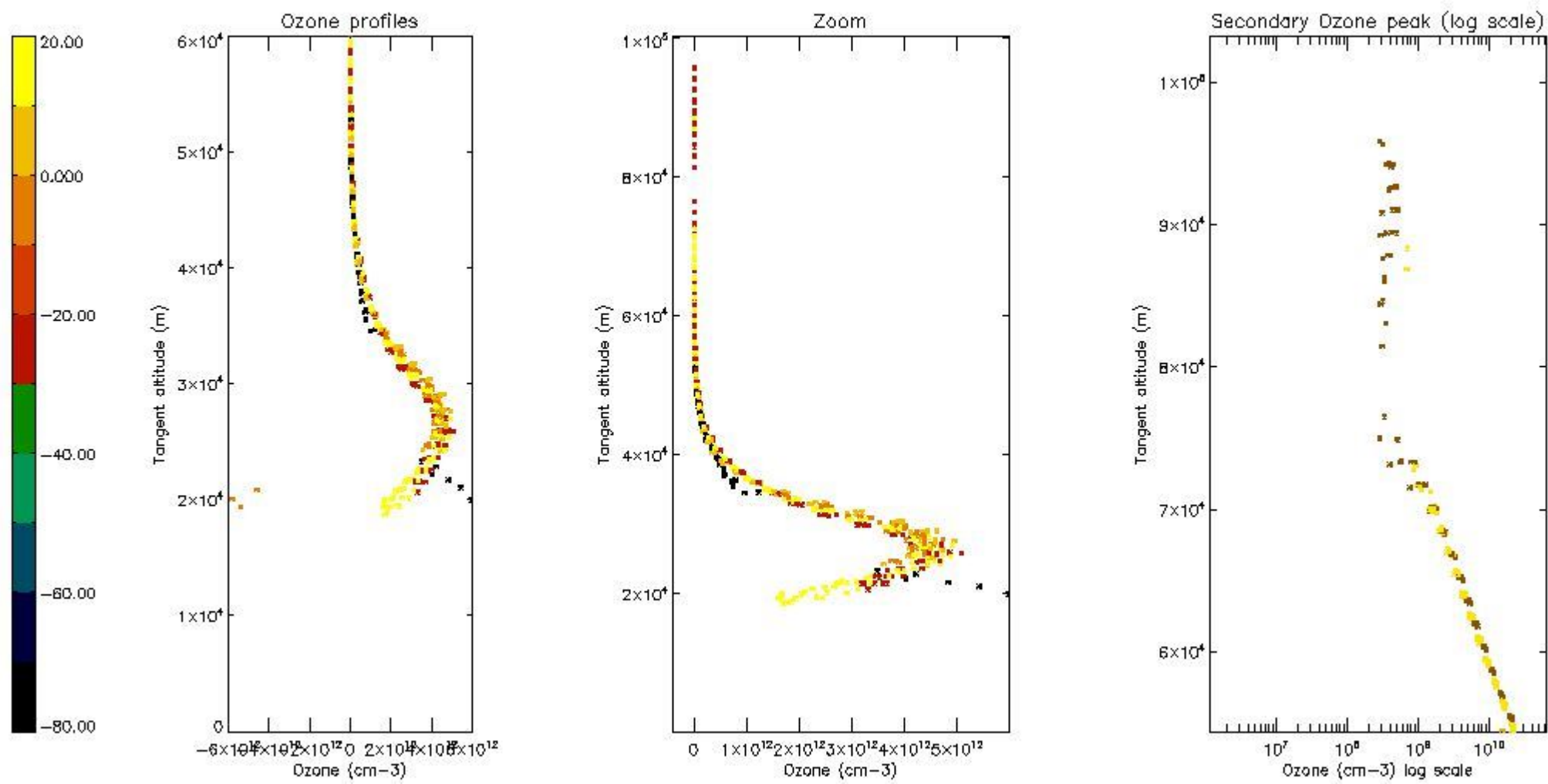
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



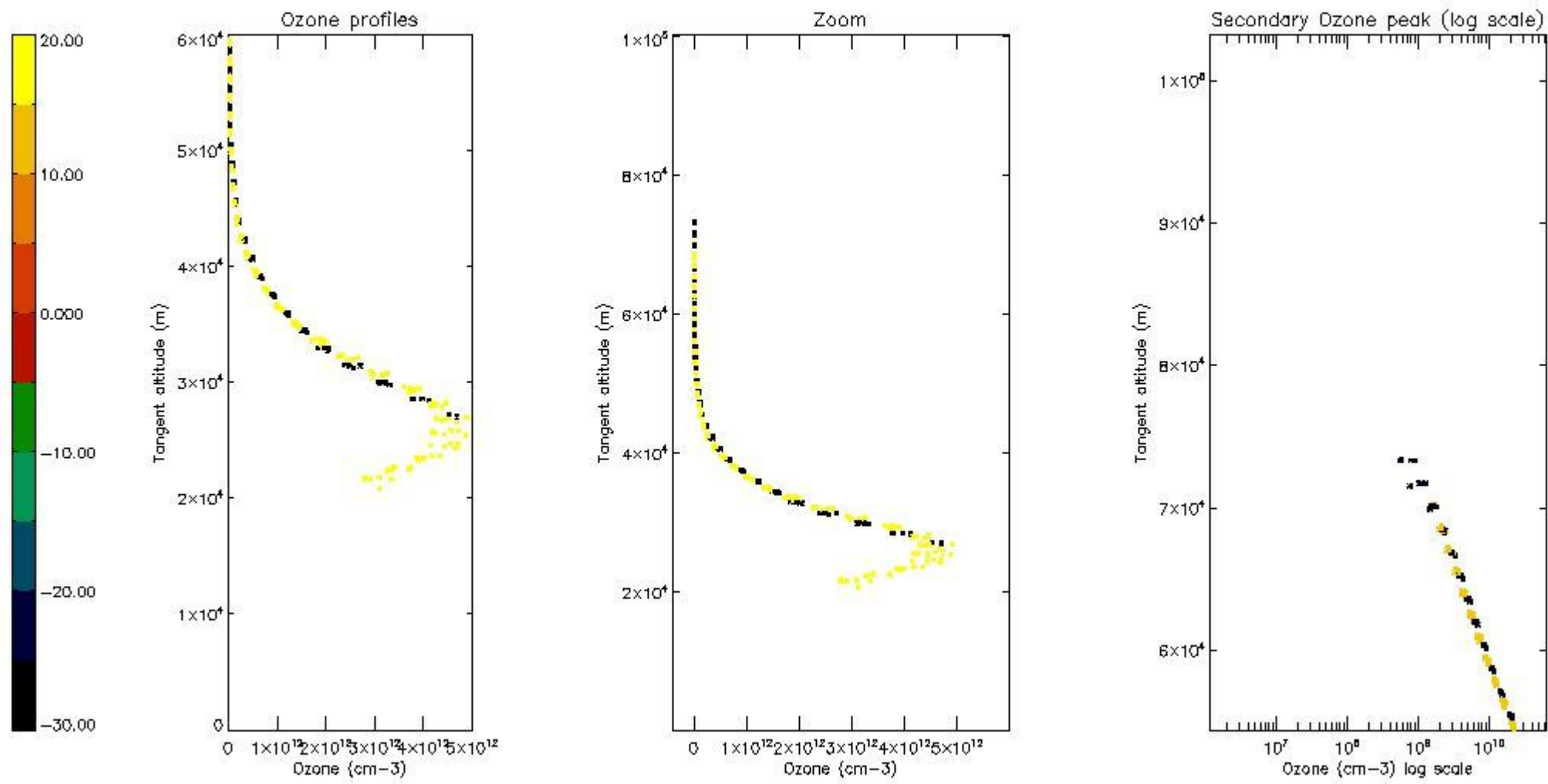
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



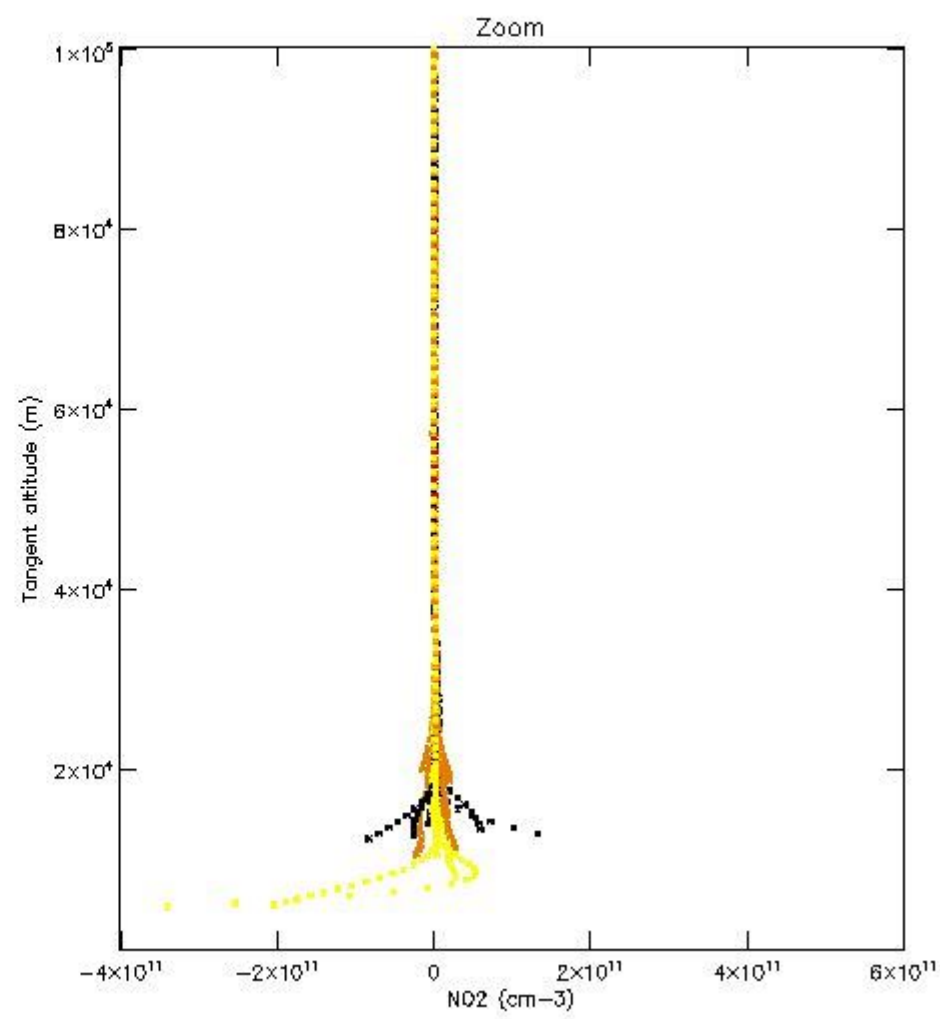
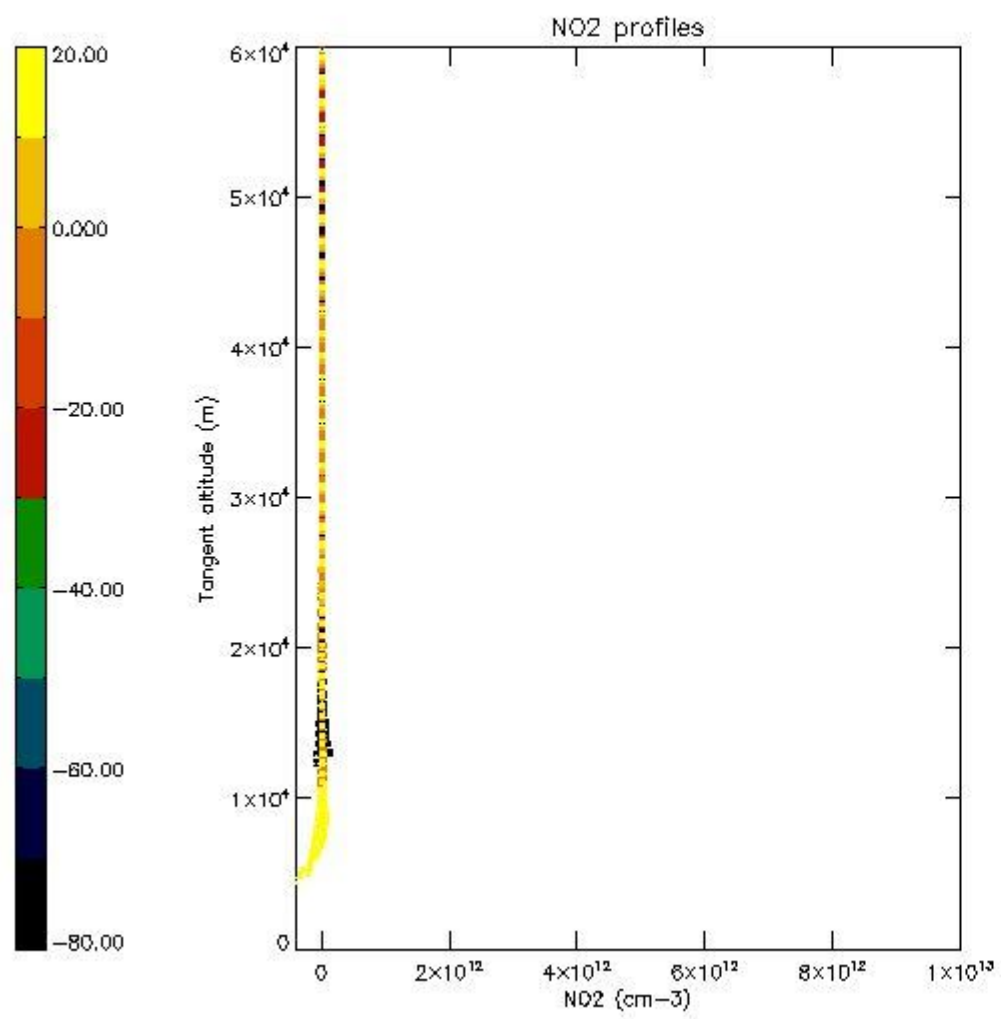
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



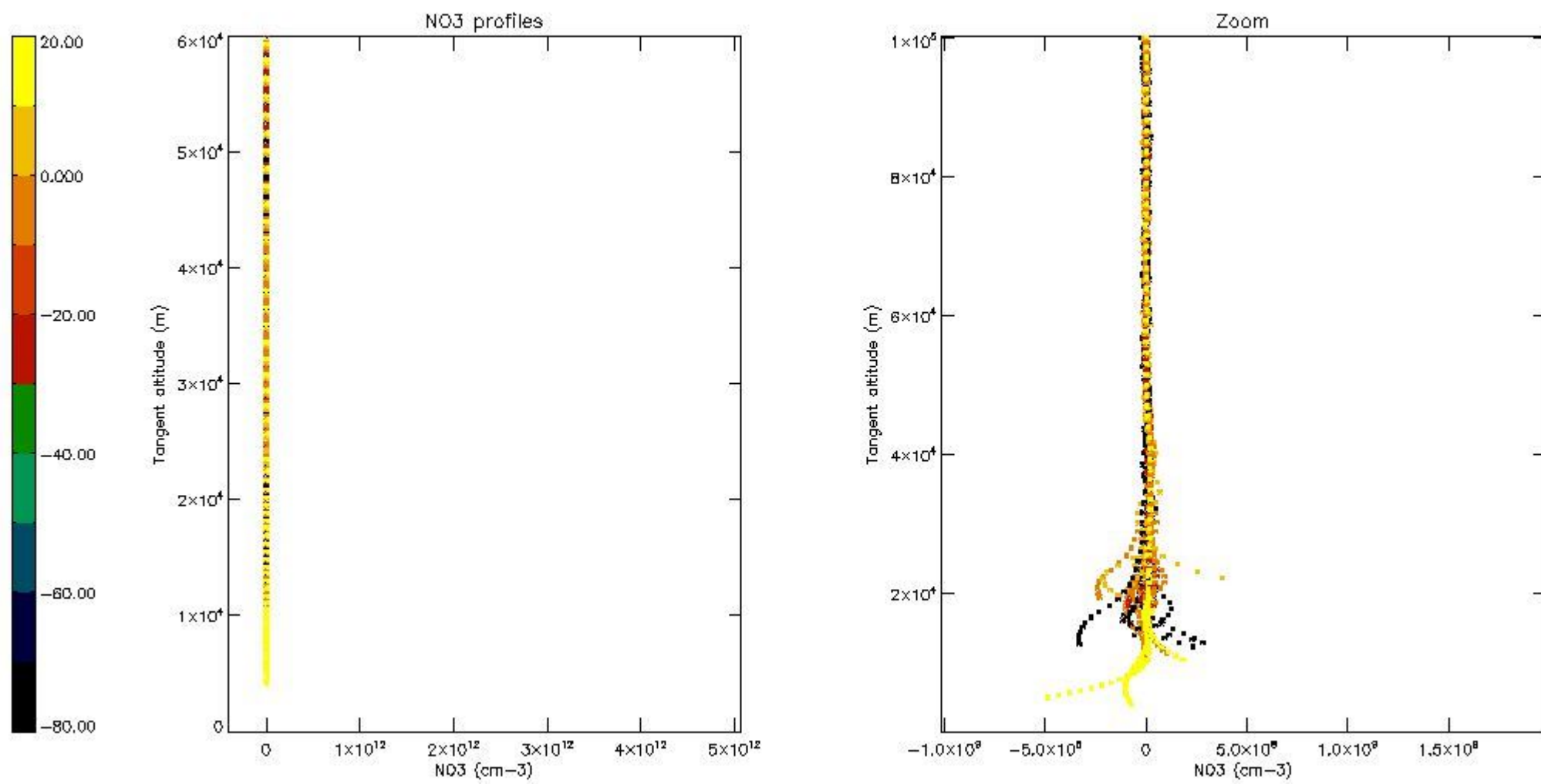
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



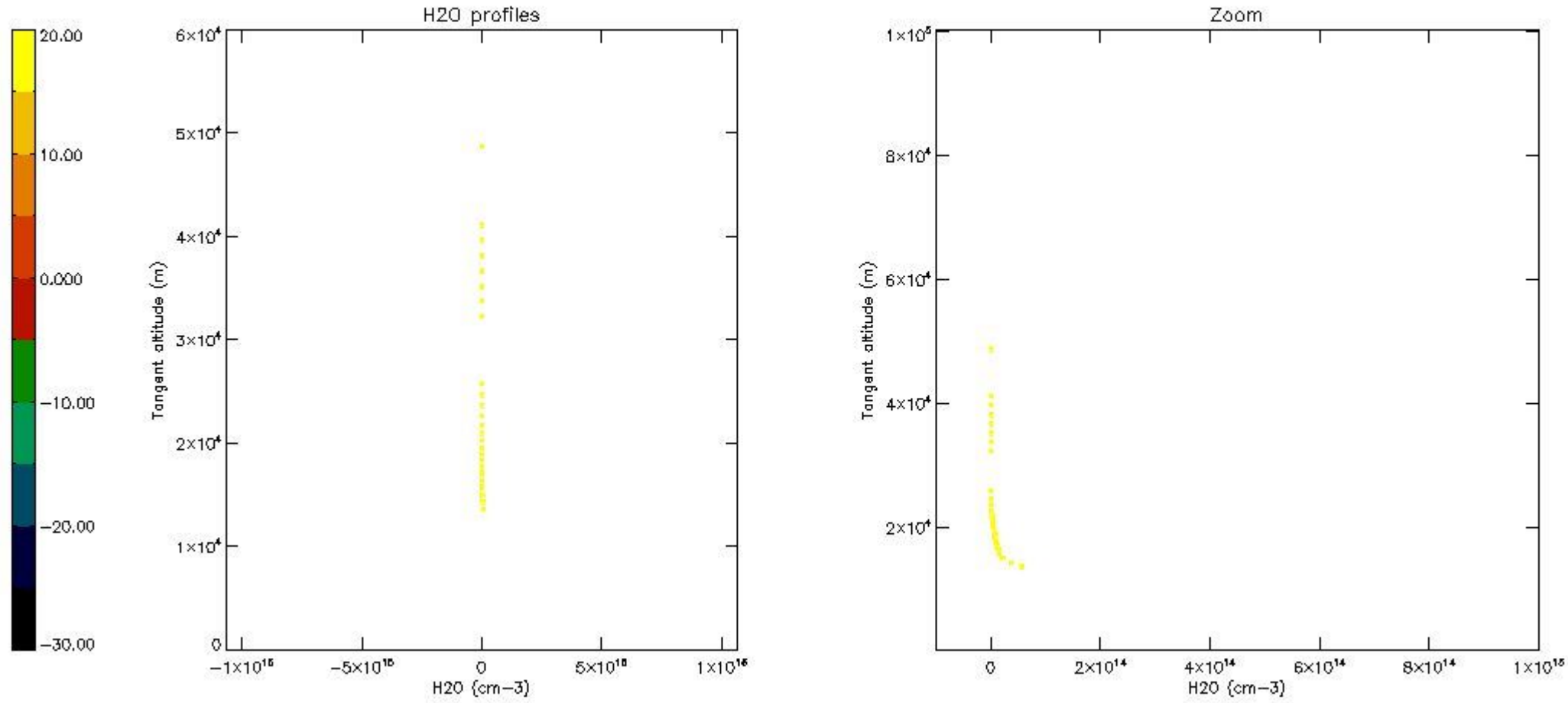
5.7 Plot NO3 profiles for all STD (dark without errors)

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	25-MAR-2007 12:57:14
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	25-MAR-2007 12:57:14
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	25-MAR-2007 12:57:14

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% \(dark without errors\)](#)

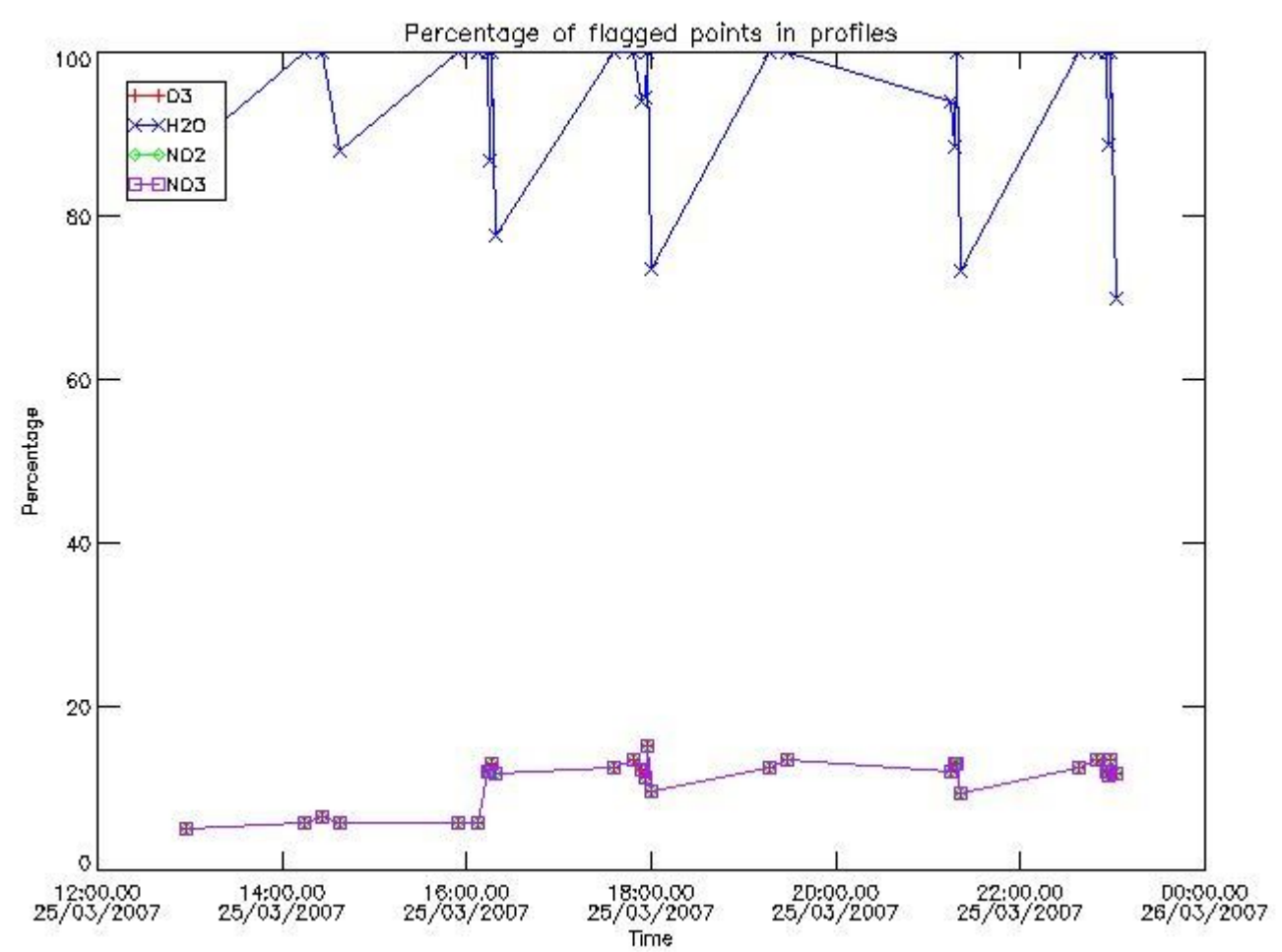
[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

[5.6 Plot NO2 profiles for all STD \(dark without errors\)](#)

[5.7 Plot NO3 profiles for all STD \(dark without errors\)](#)

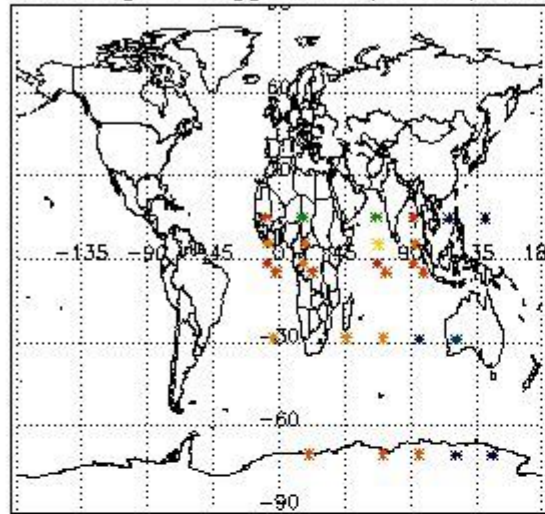
[5.8 Plot H2O profiles \(only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors\) for all STD](#)

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

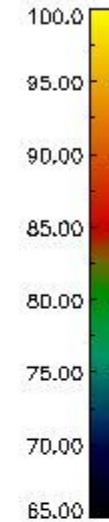
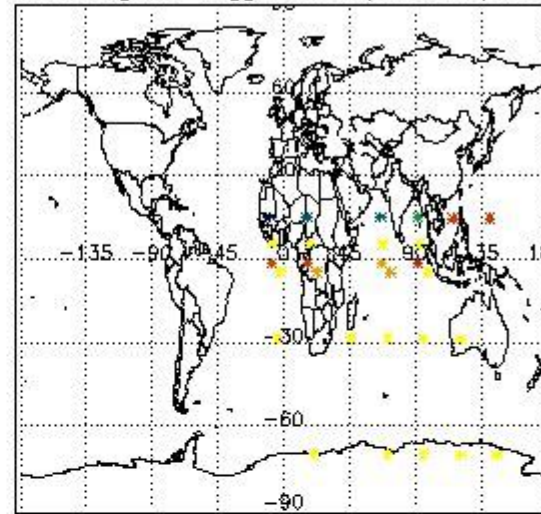


3.2 Plot quality information per product (world map)

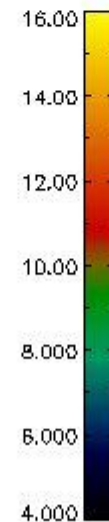
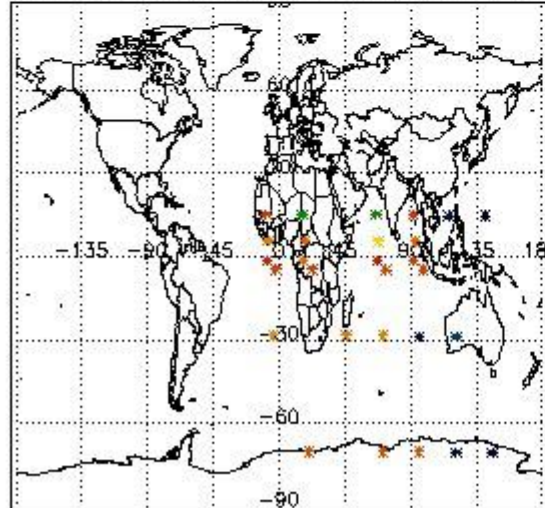
Percentage of flagged data per O3 profile



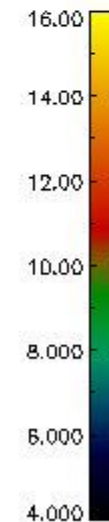
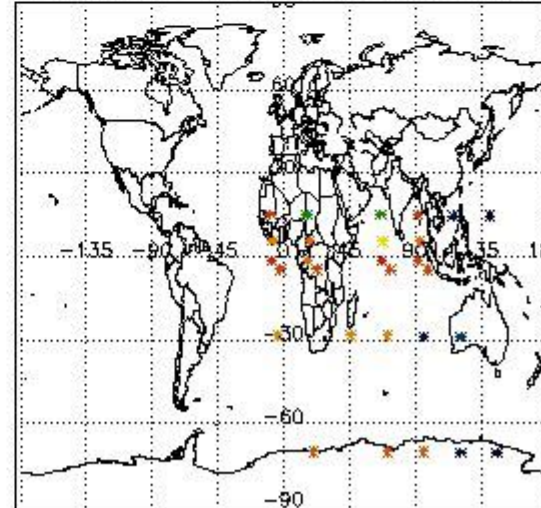
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

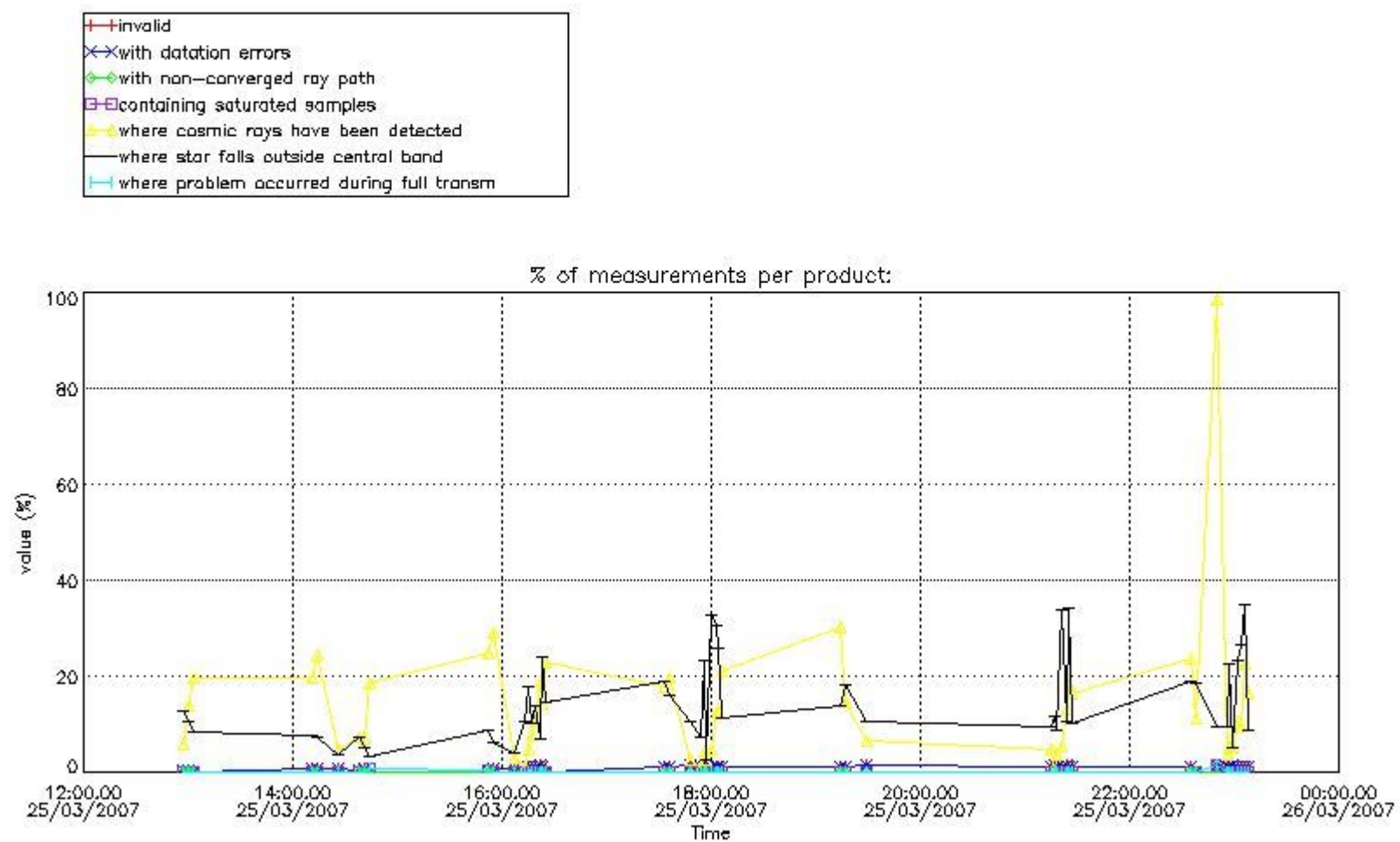


4. Level 1 quality information per product

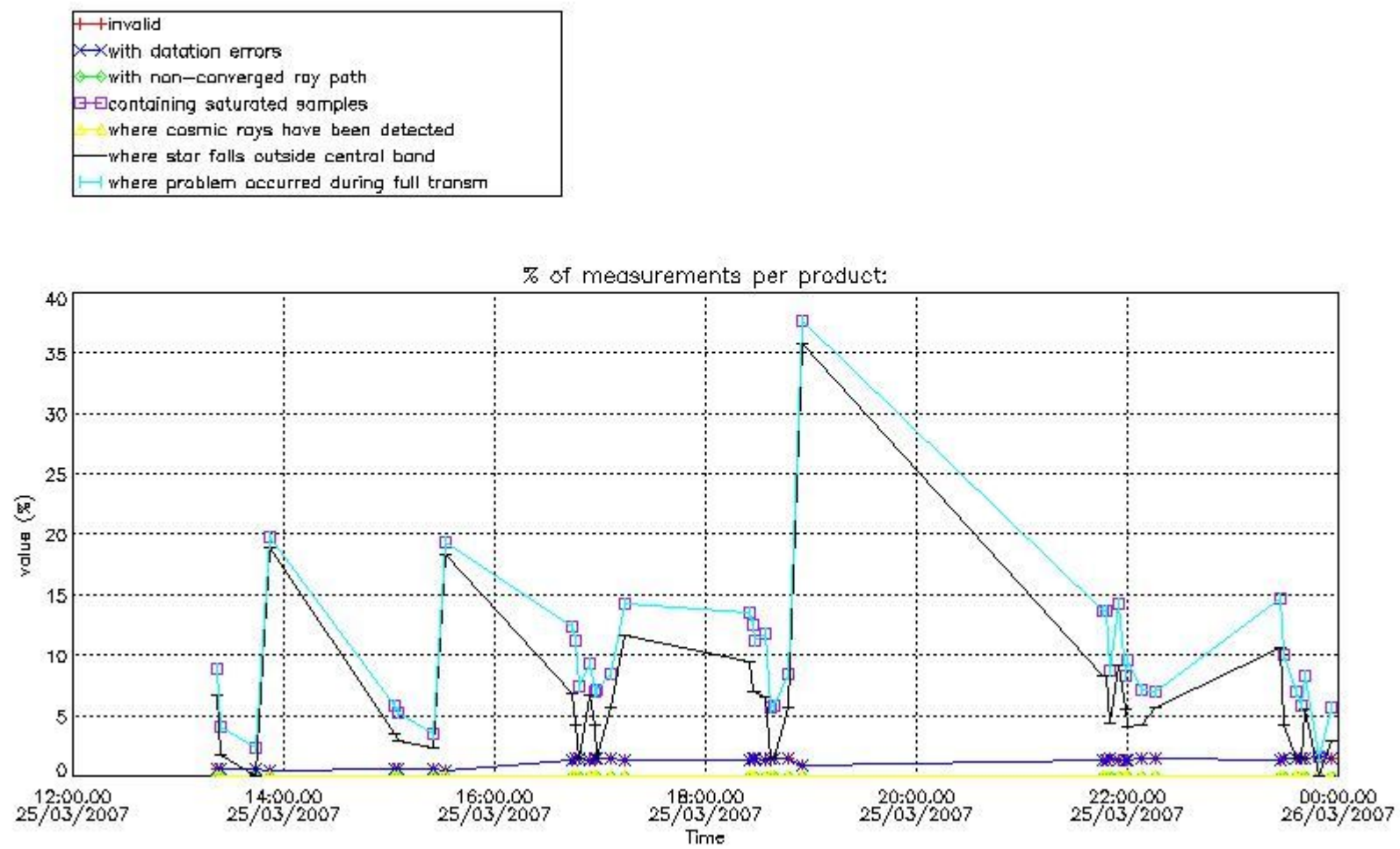
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



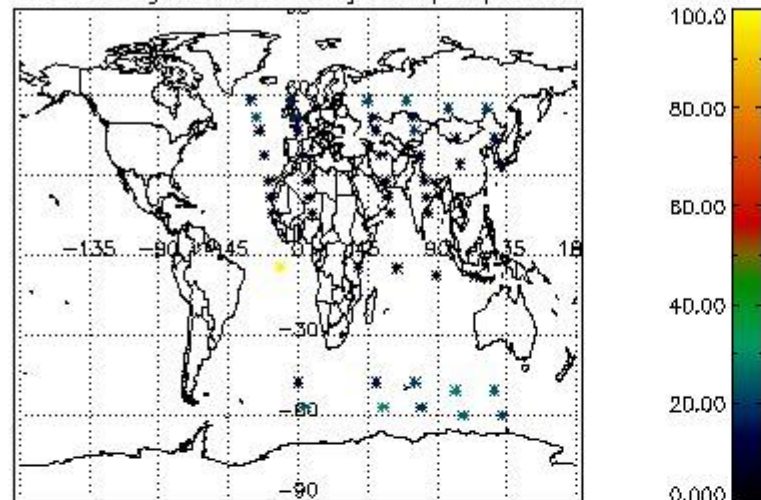
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



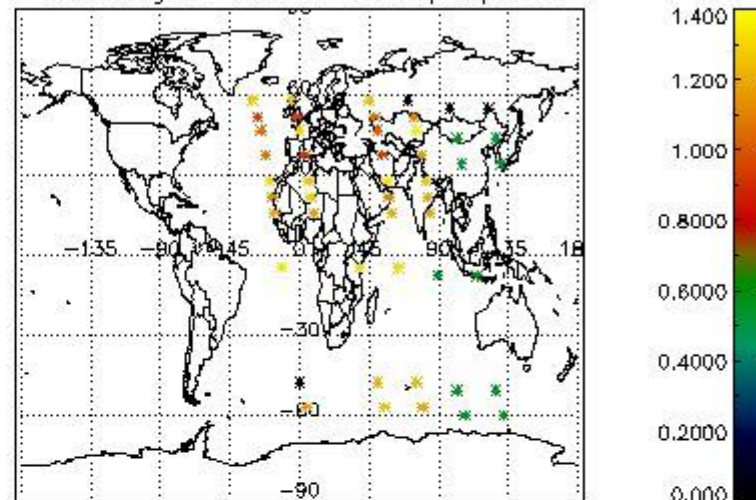
4.2 Plot quality information per product coming from level 1b processing (world map)

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

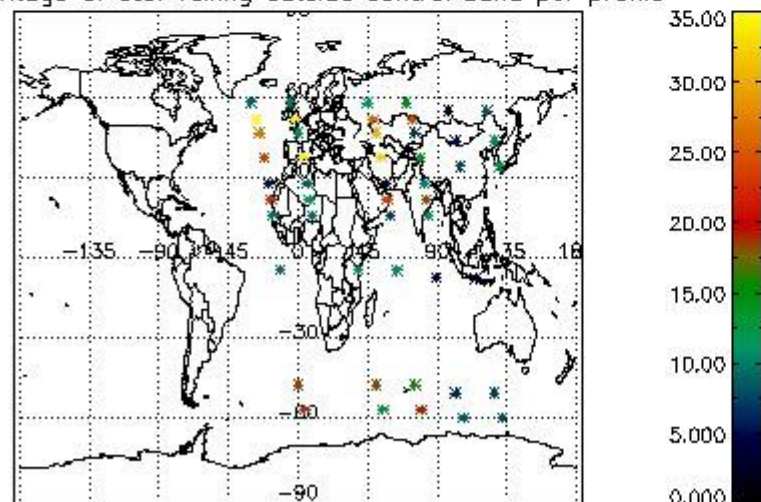
Percentage of cosmic ray hits per profile



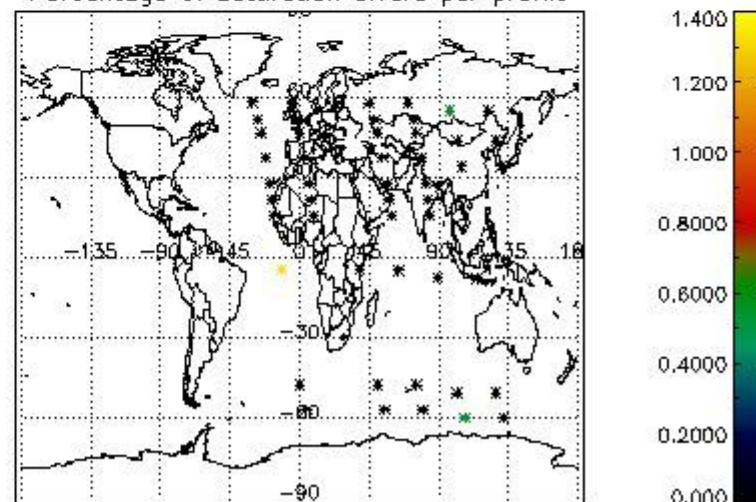
Percentage of datation errors per profile



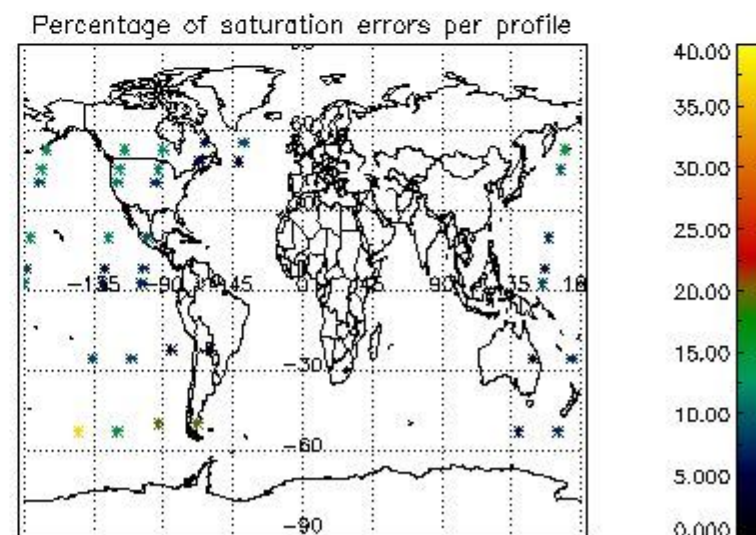
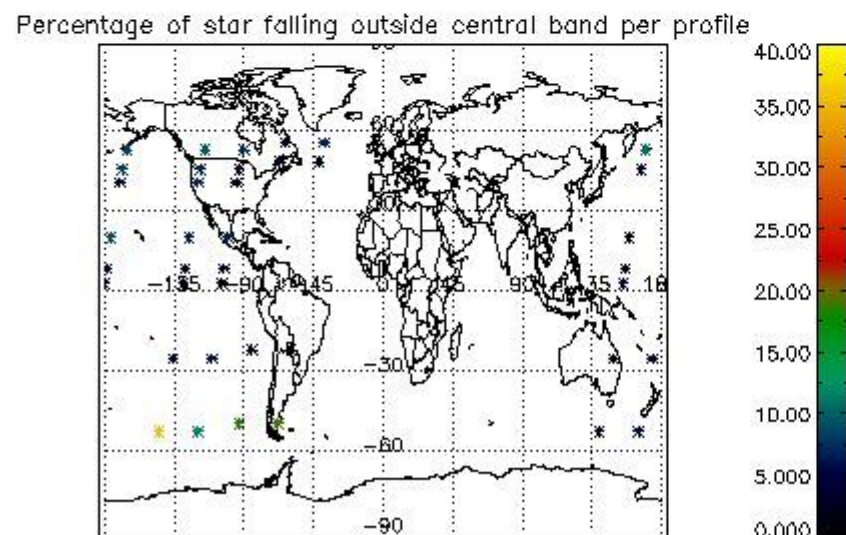
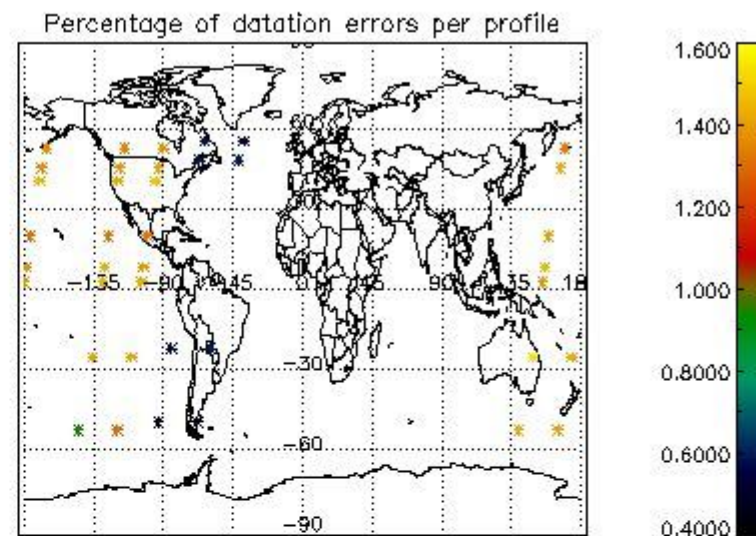
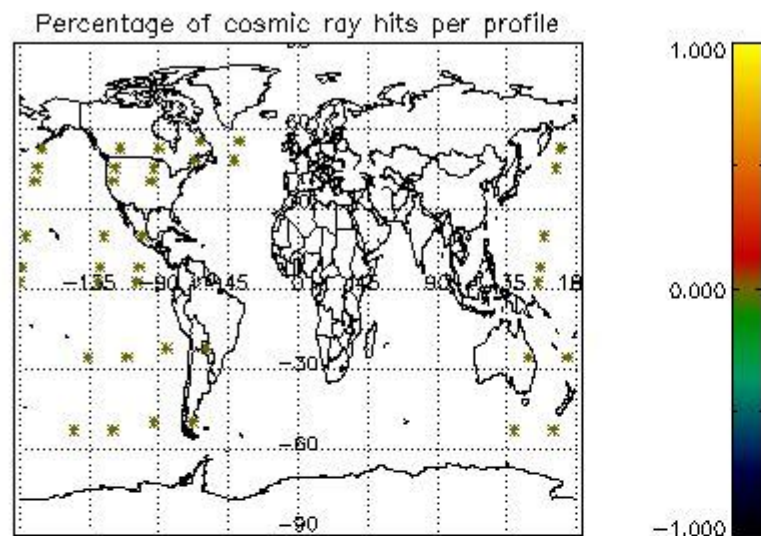
Percentage of star falling outside central band per profile



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

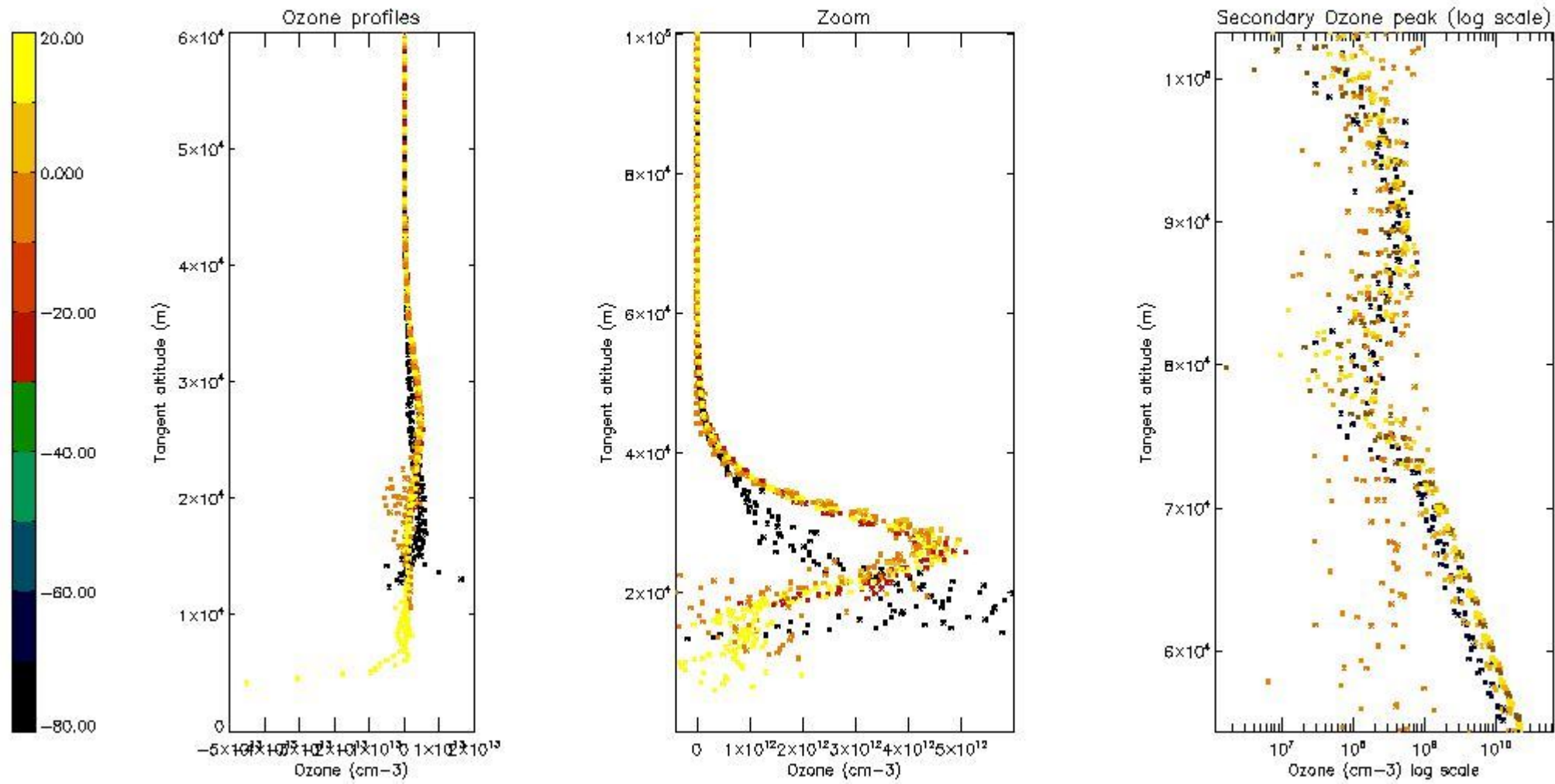
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	12

STD < 10	8
STD < 5	4

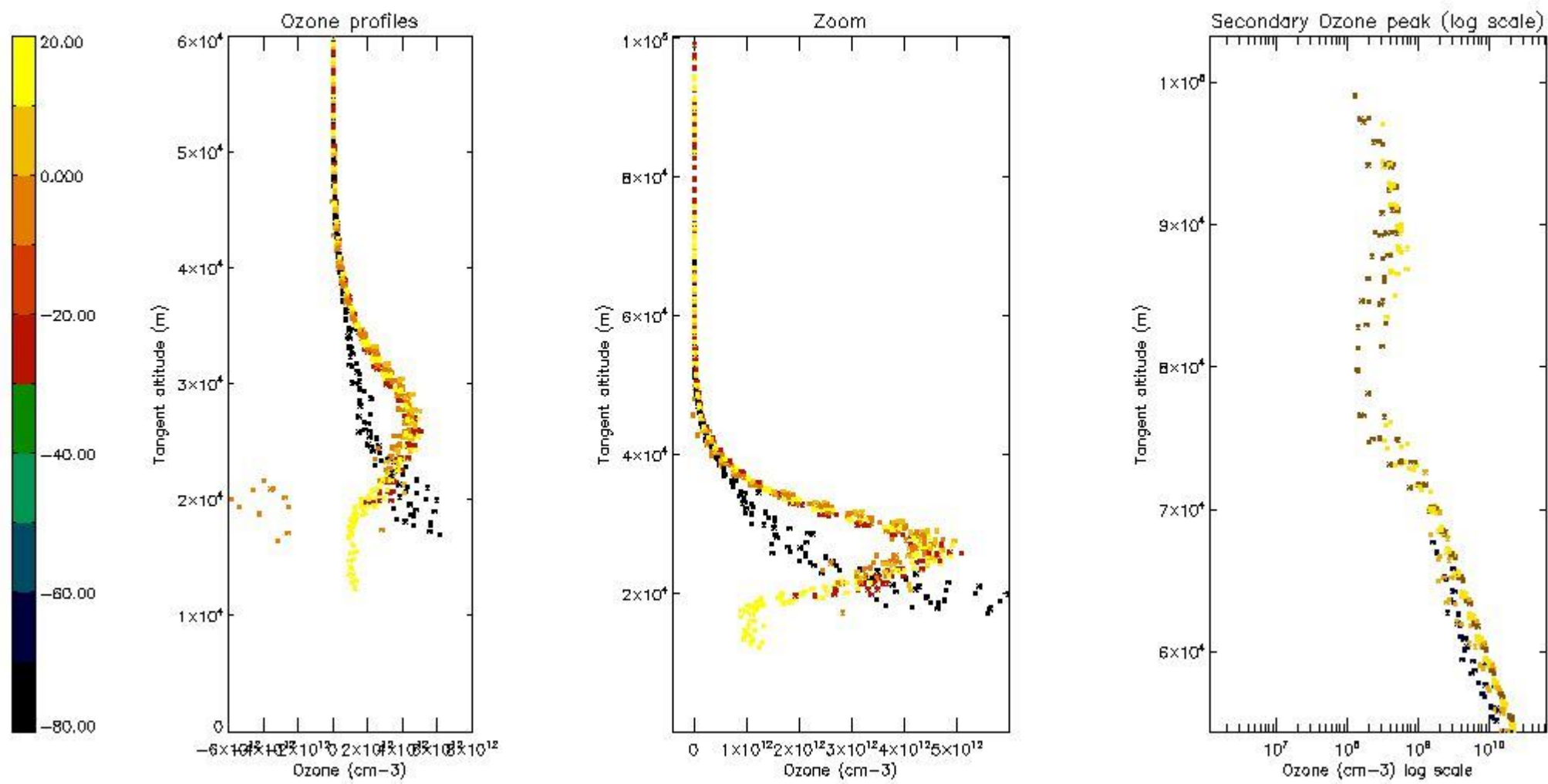
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



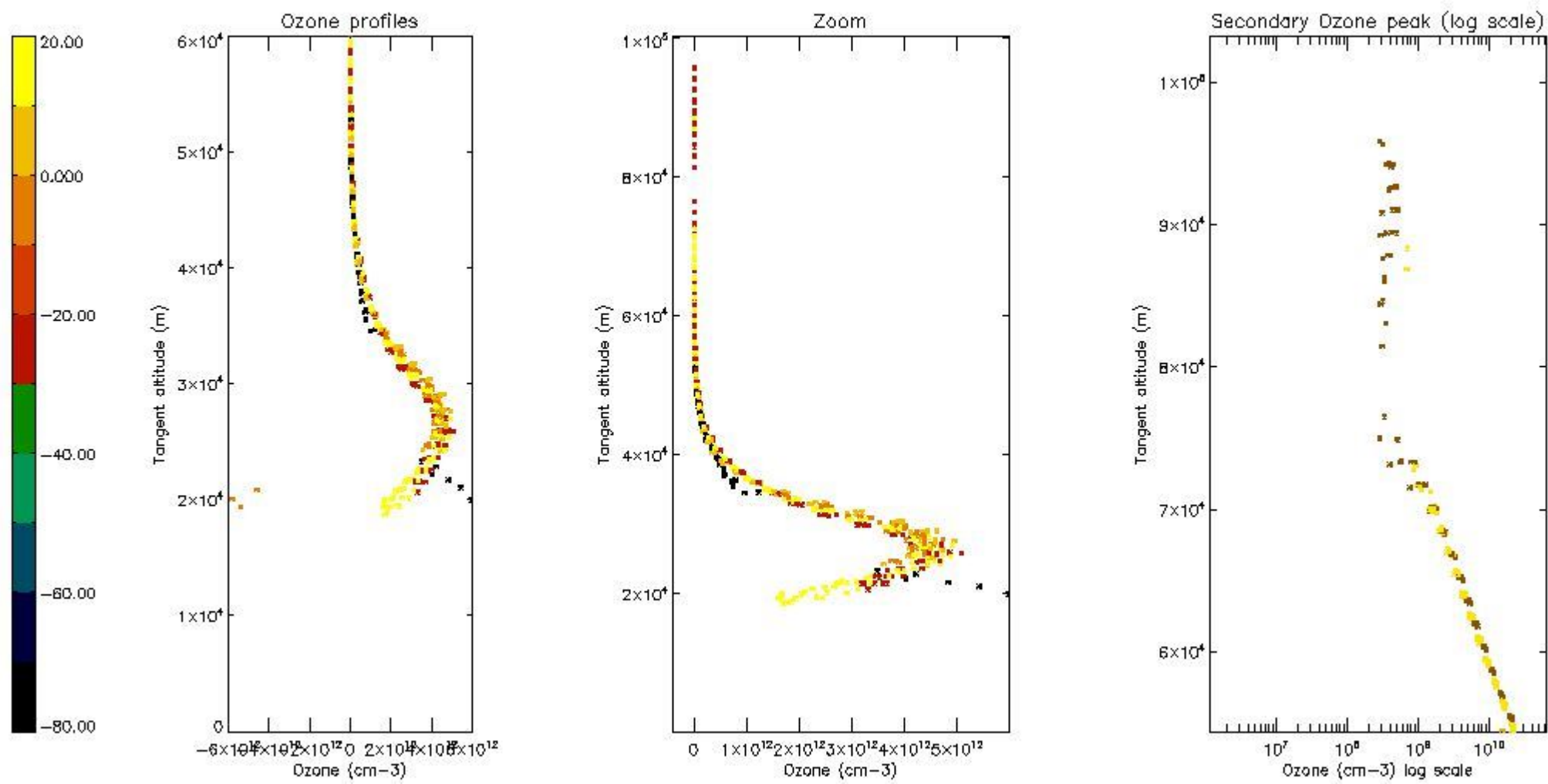
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



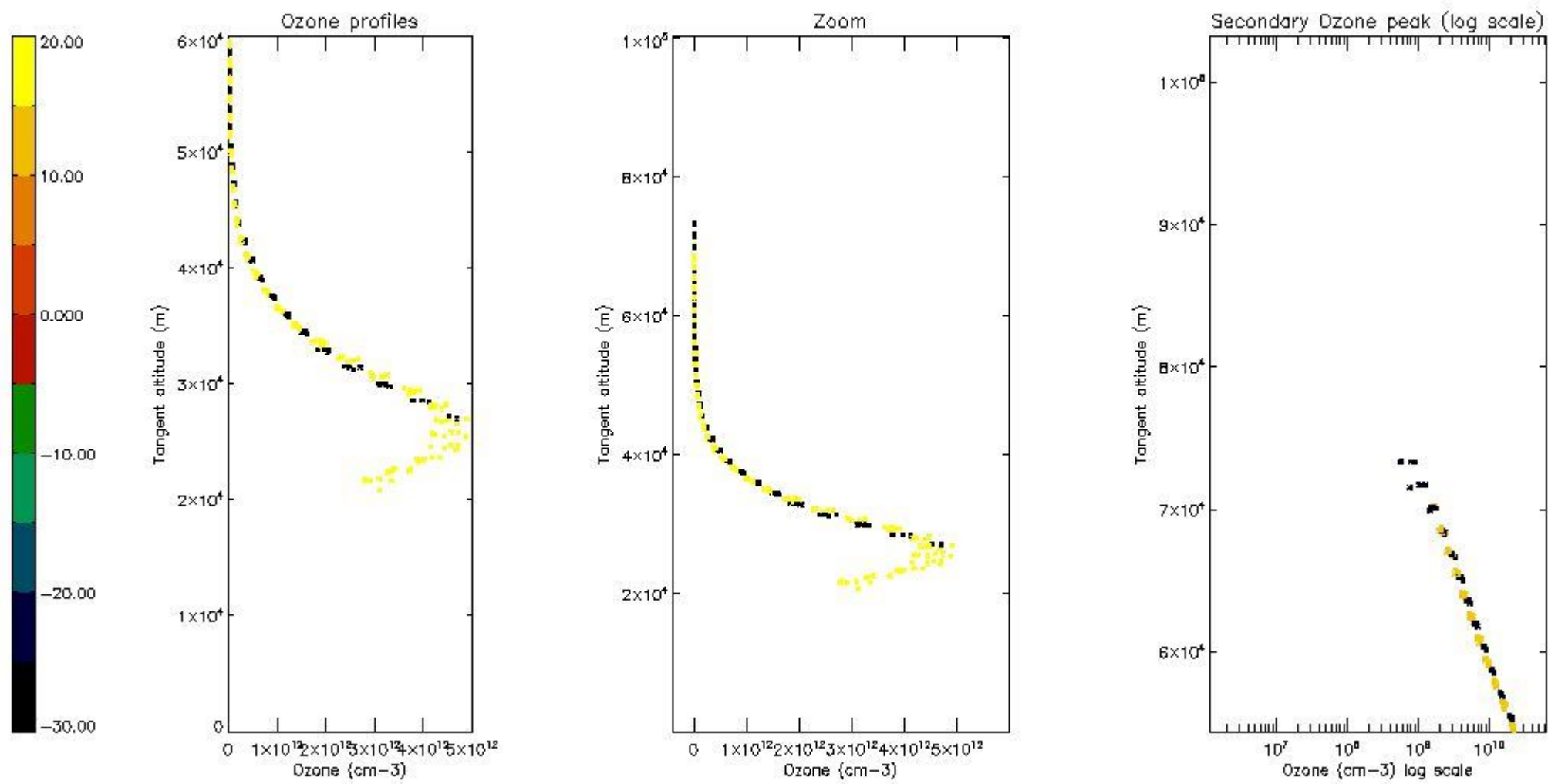
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



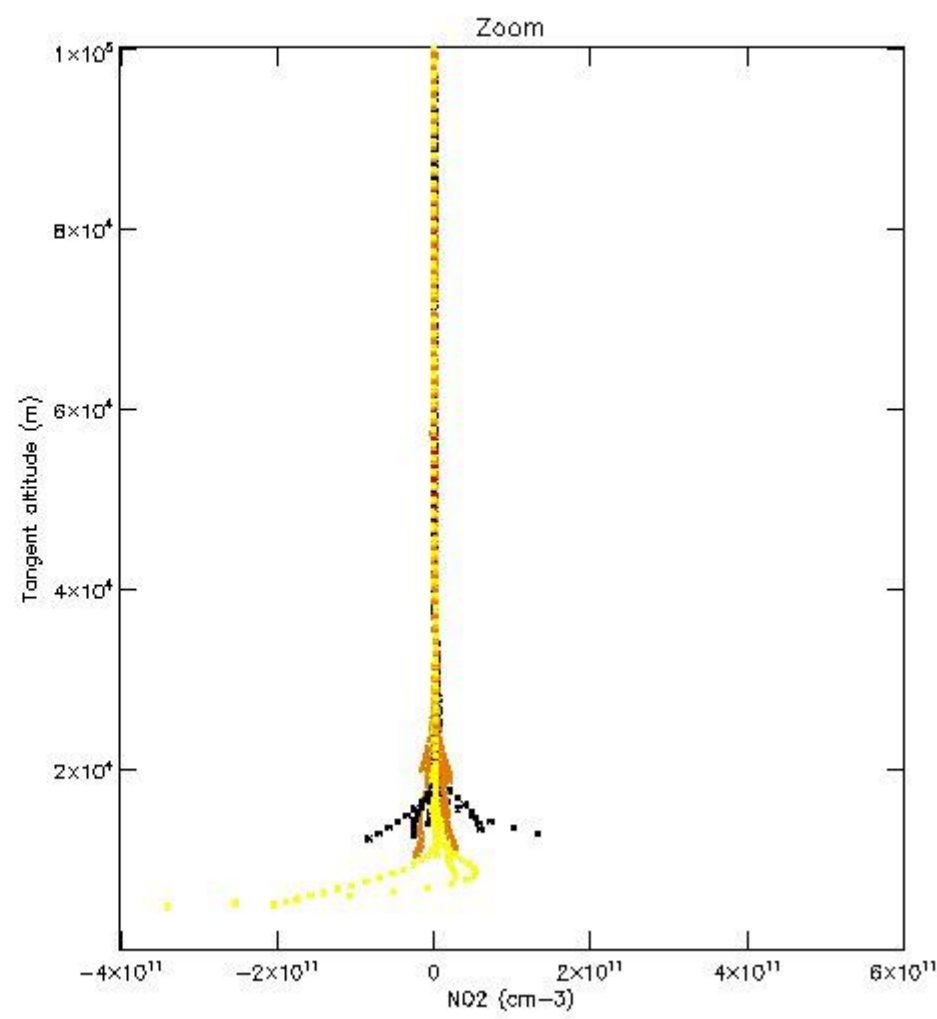
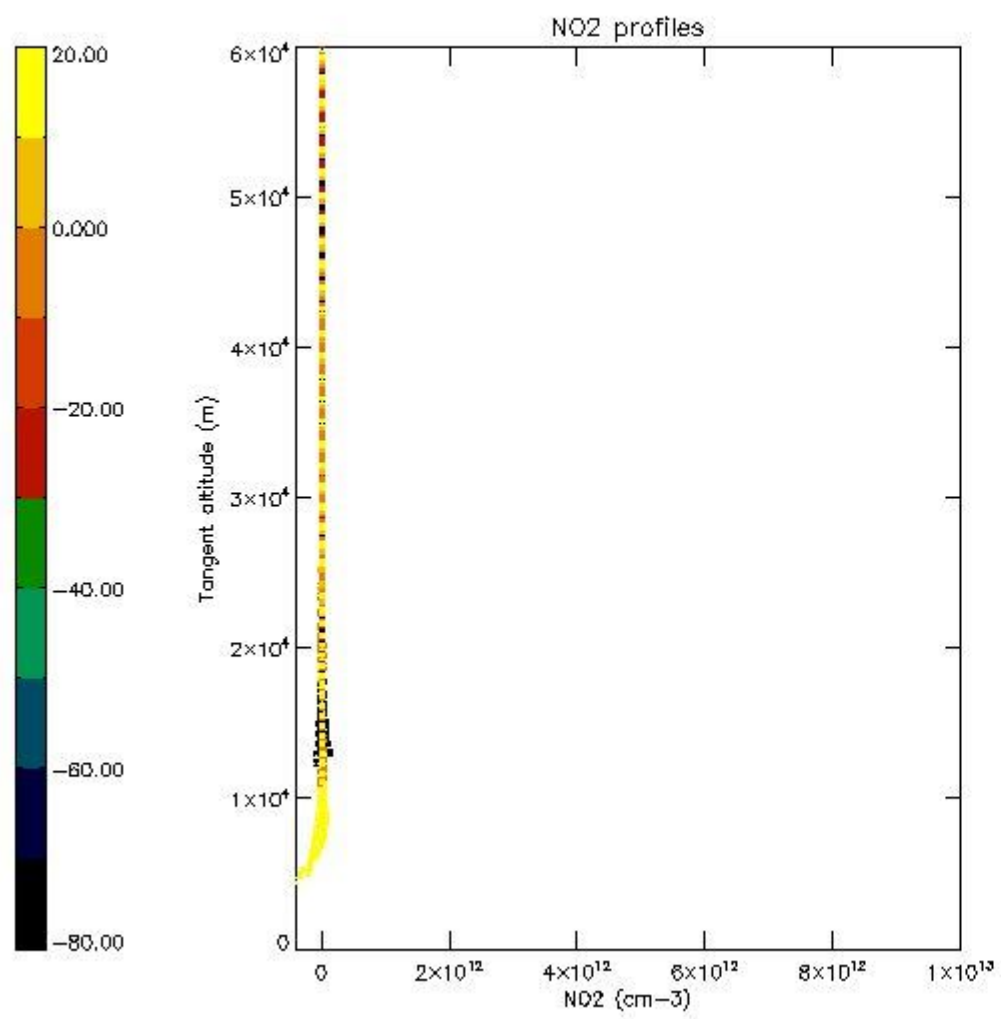
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



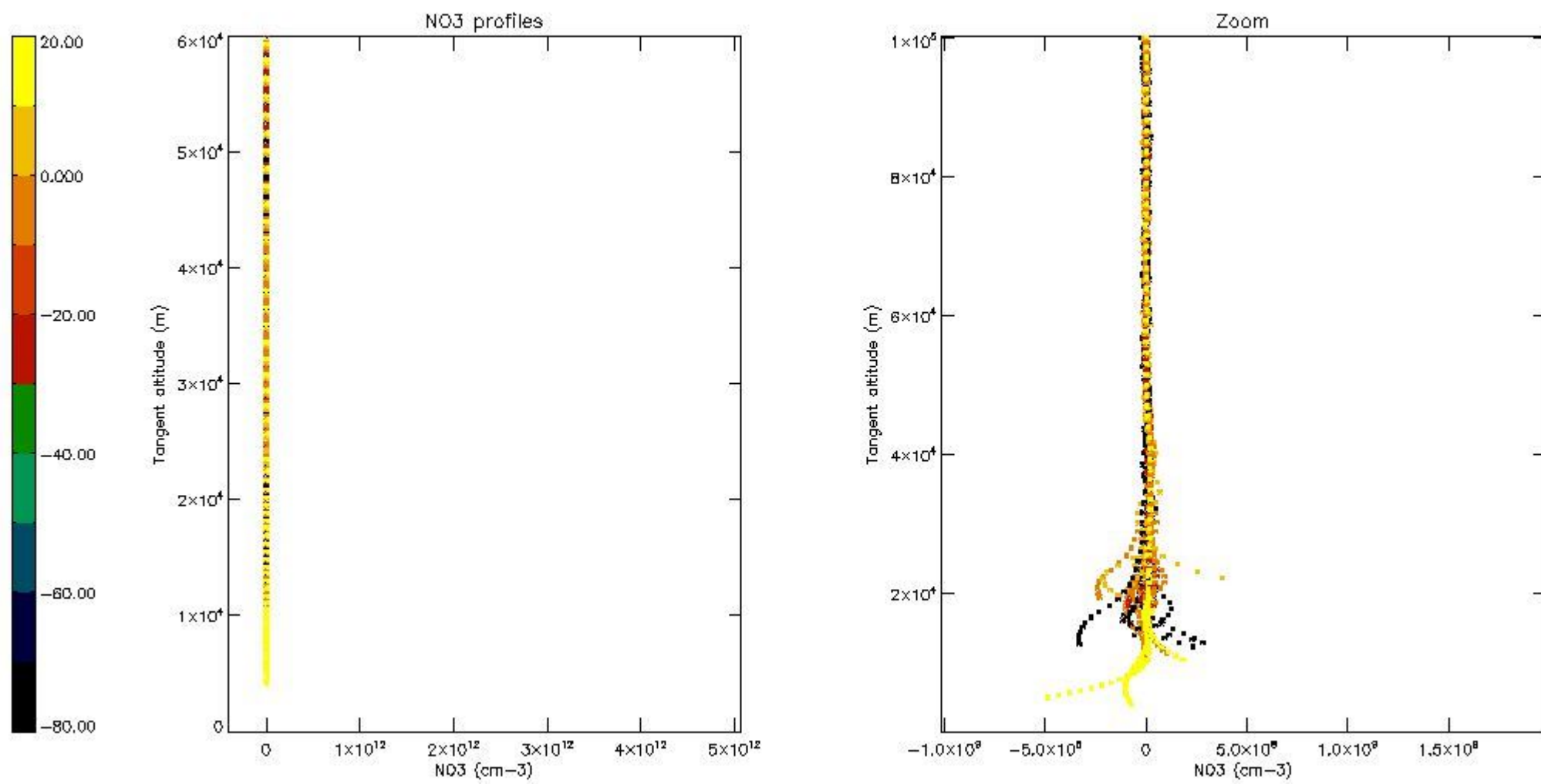
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



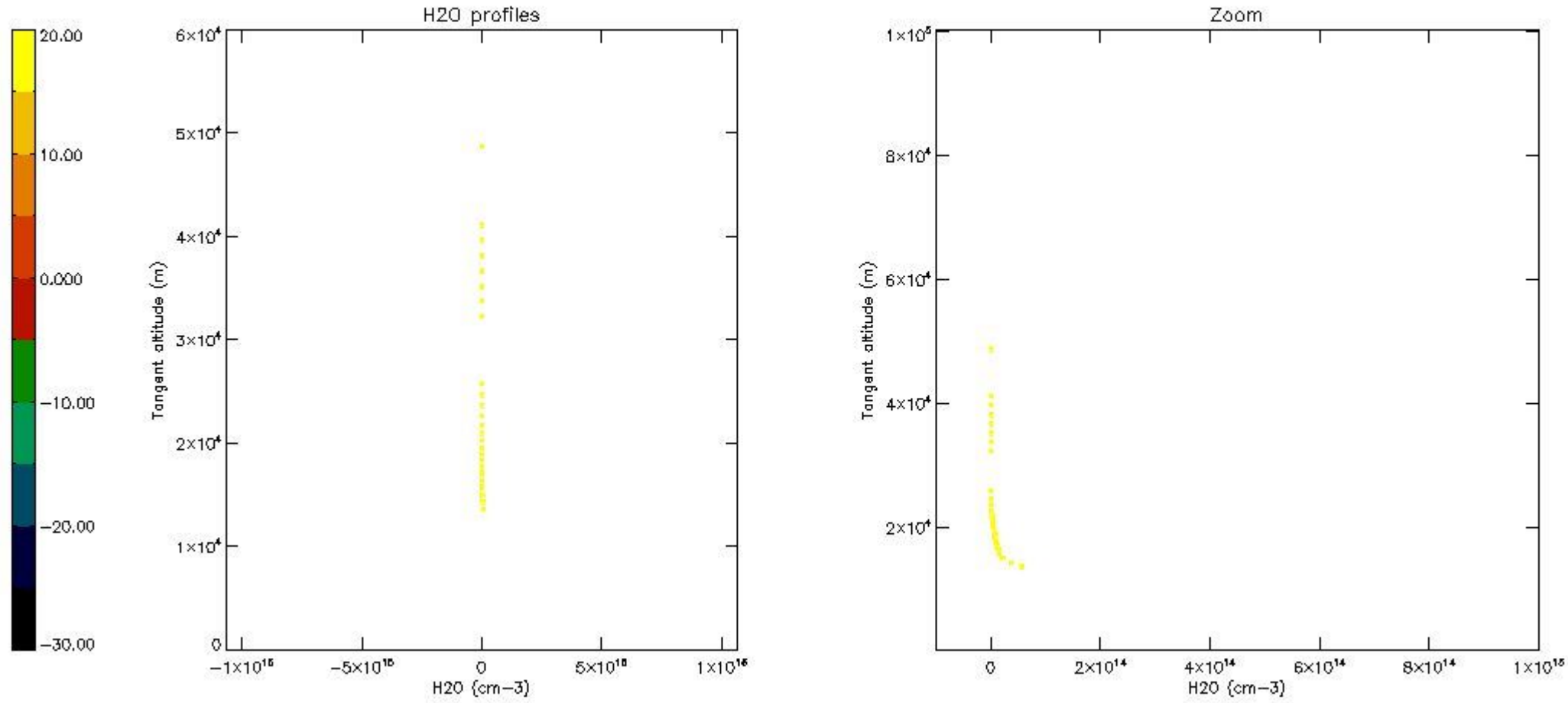
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

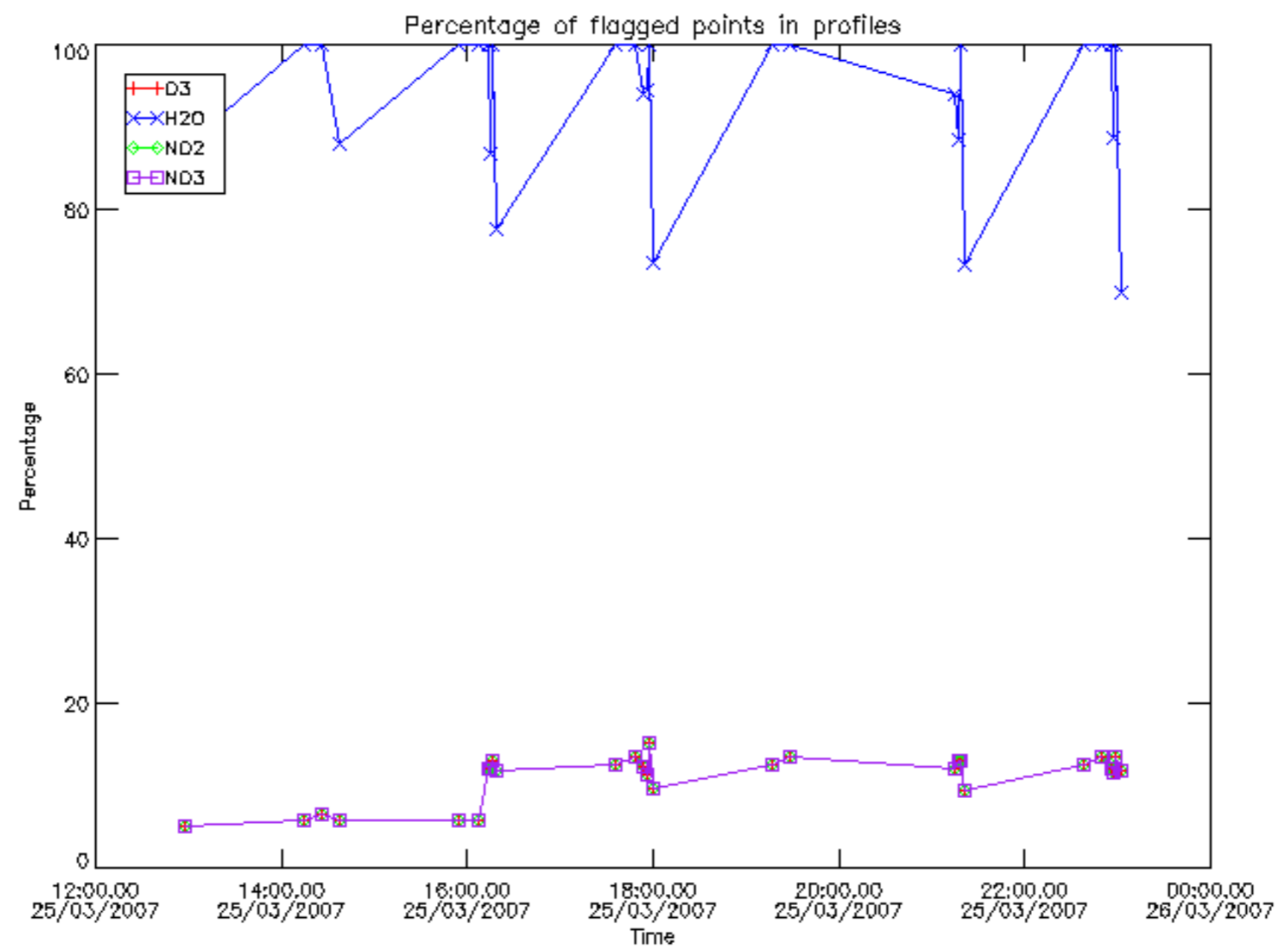
The colorbar represents the latitude.



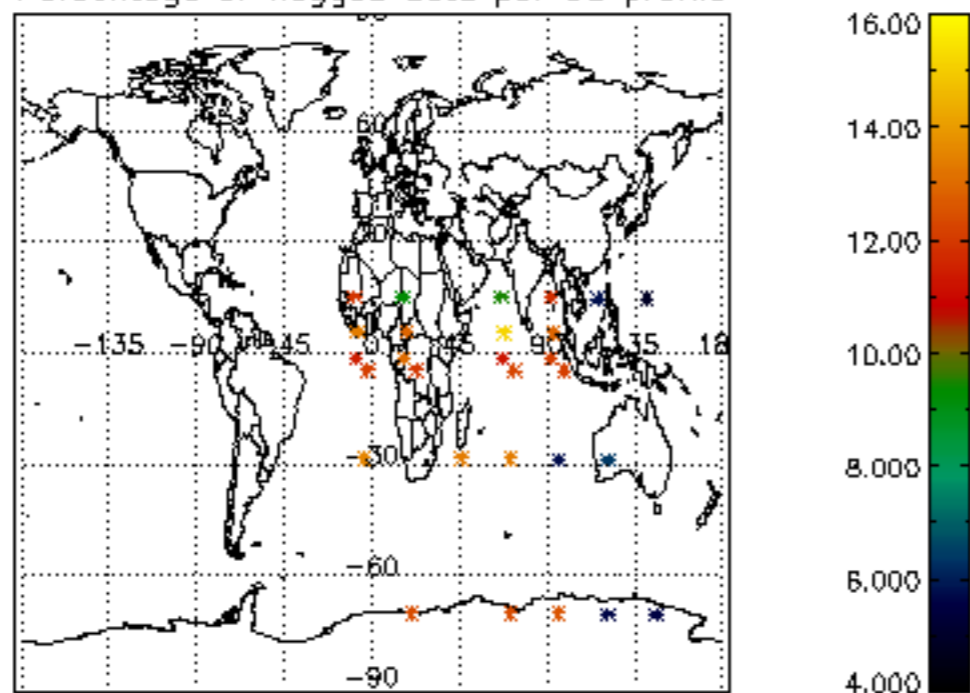
6. Auxiliary Data Files used for the production reported in section 2

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.

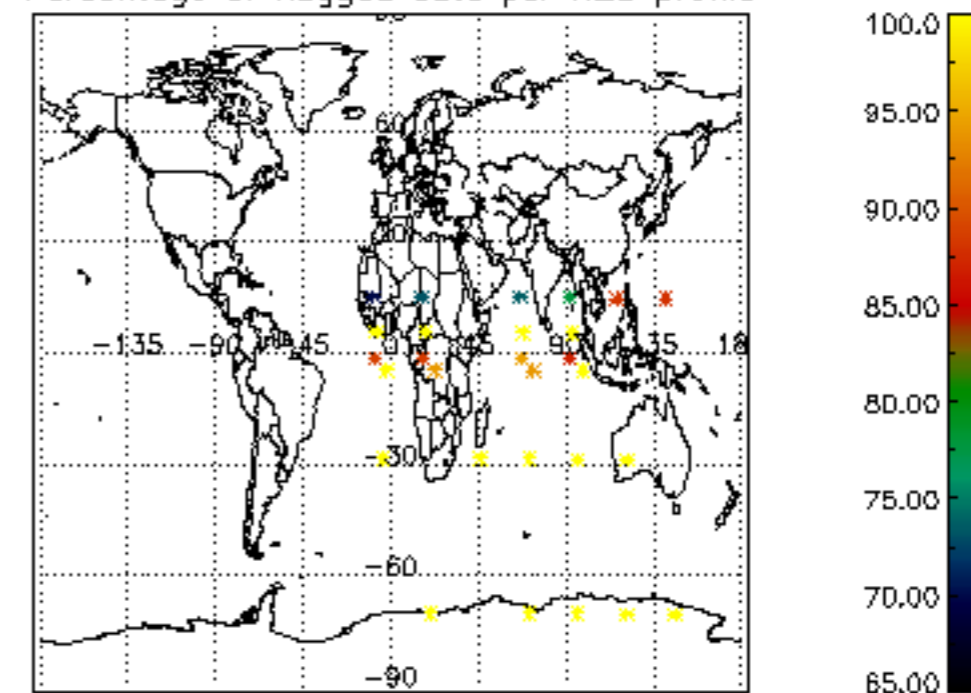
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	25-MAR-2007 12:57:14
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	25-MAR-2007 12:57:14
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	25-MAR-2007 12:57:14



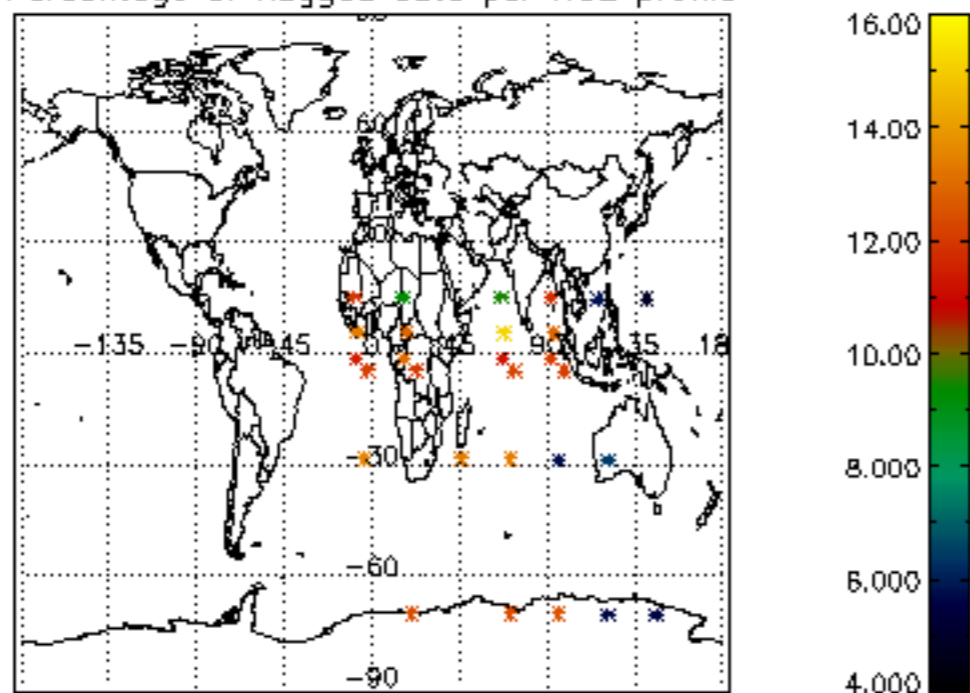
Percentage of flagged data per D3 profile



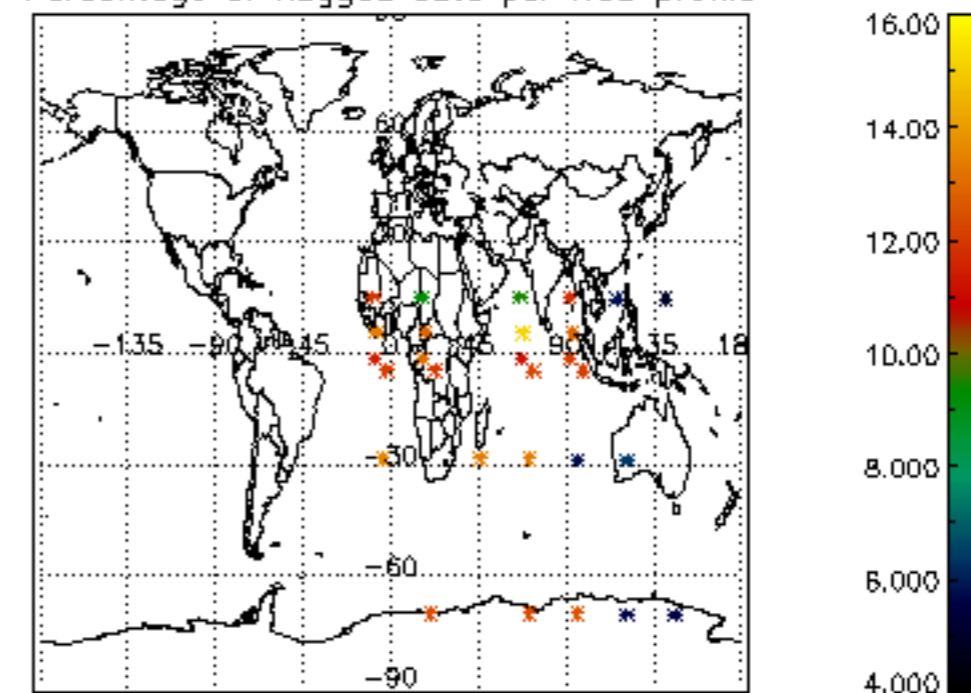
Percentage of flagged data per H2O profile

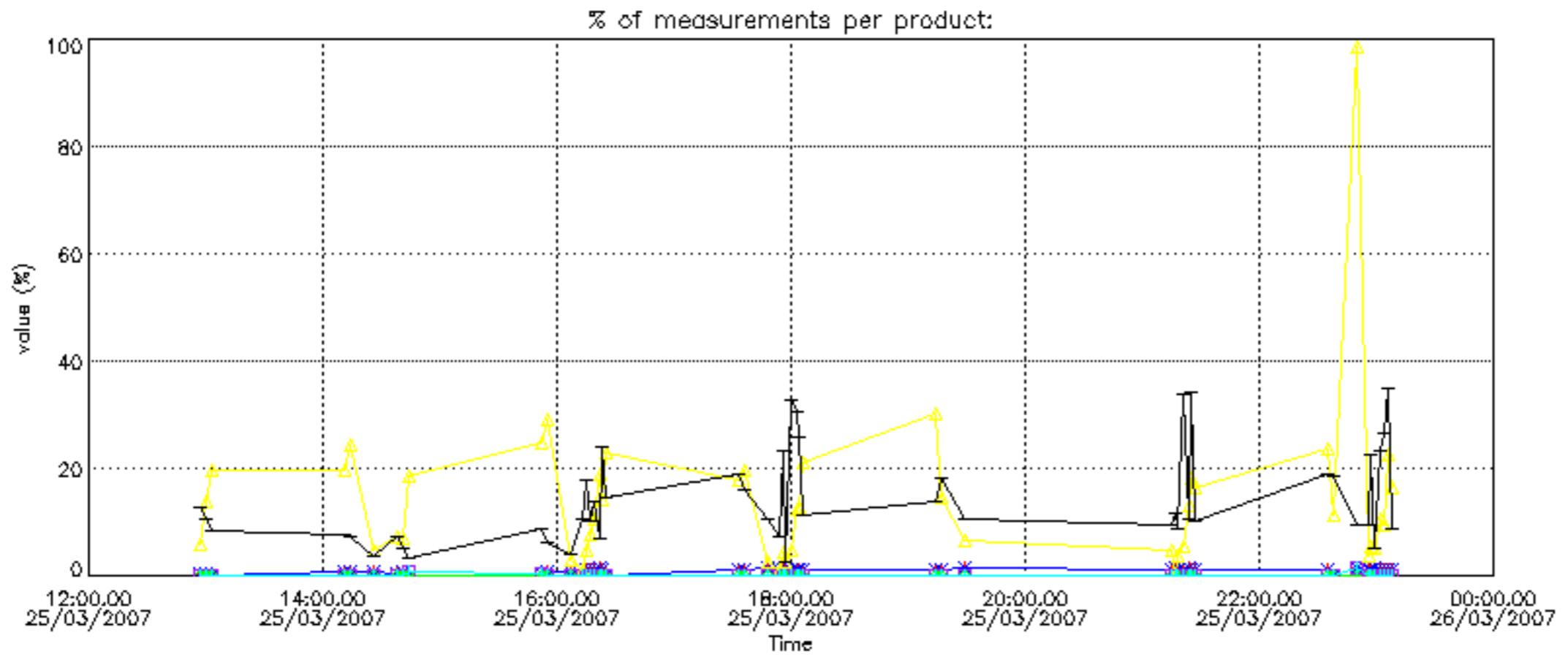


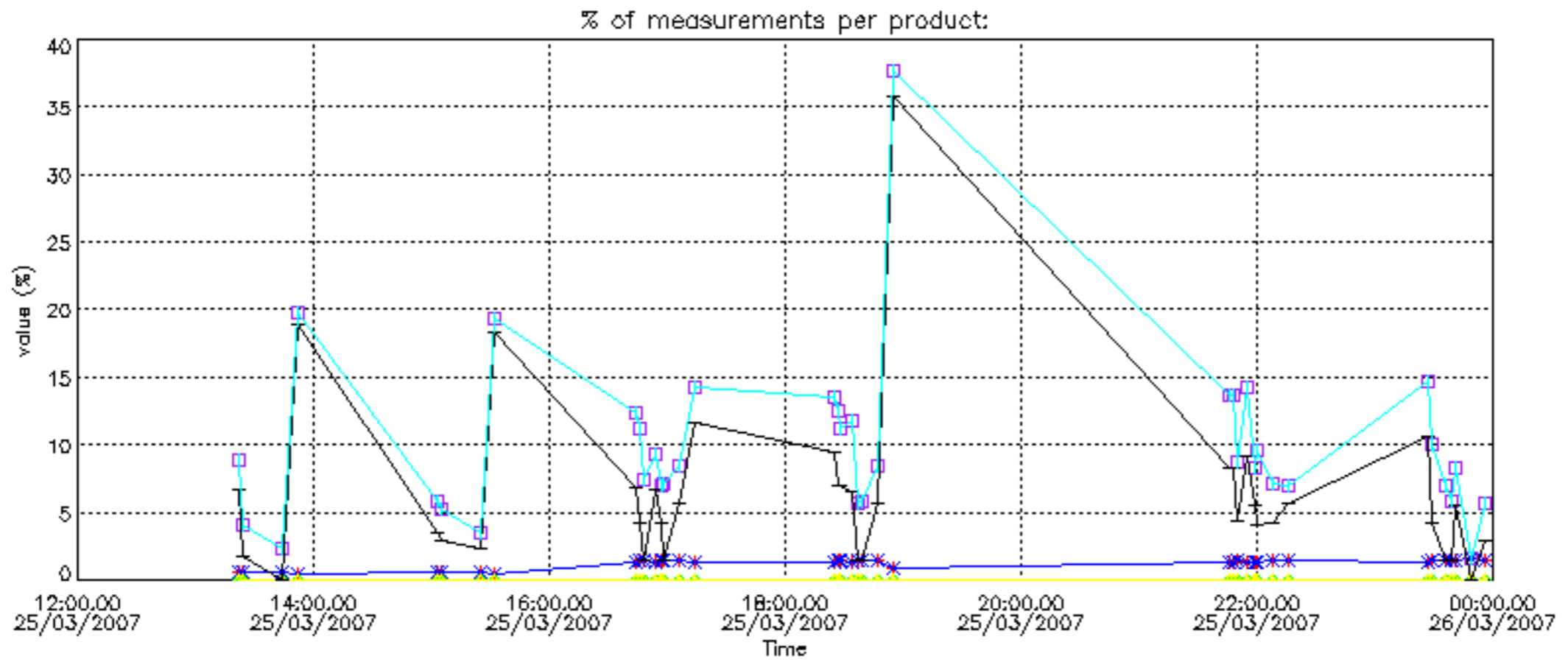
Percentage of flagged data per NO2 profile



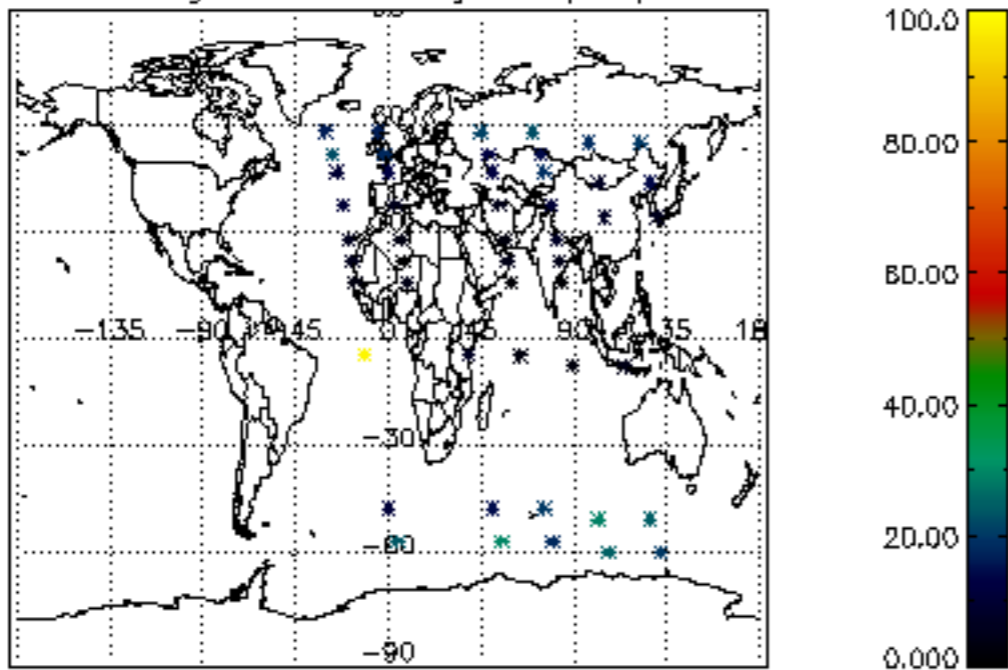
Percentage of flagged data per NO3 profile



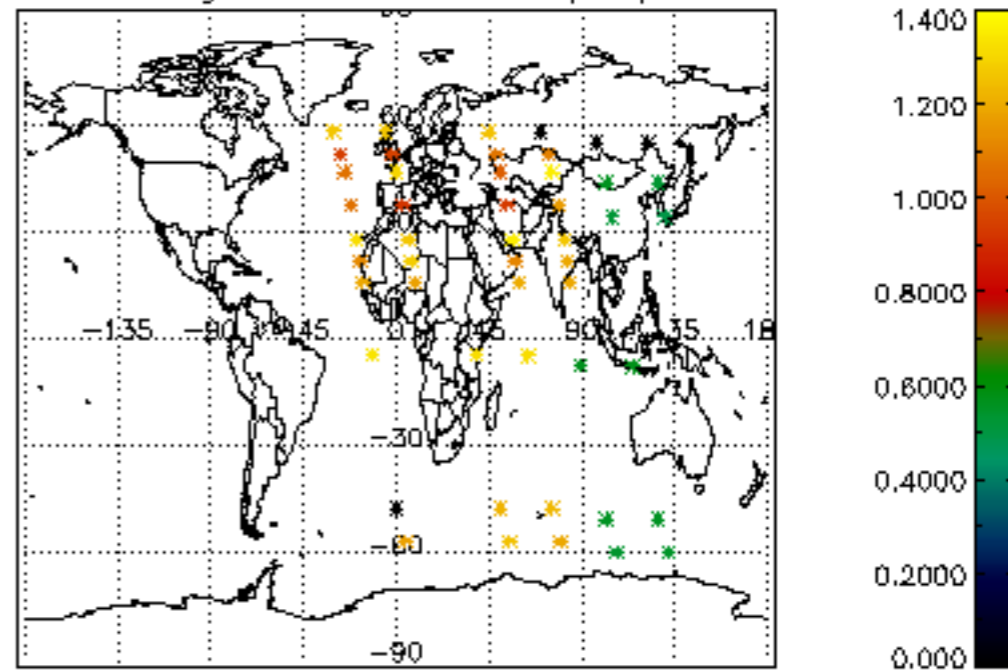




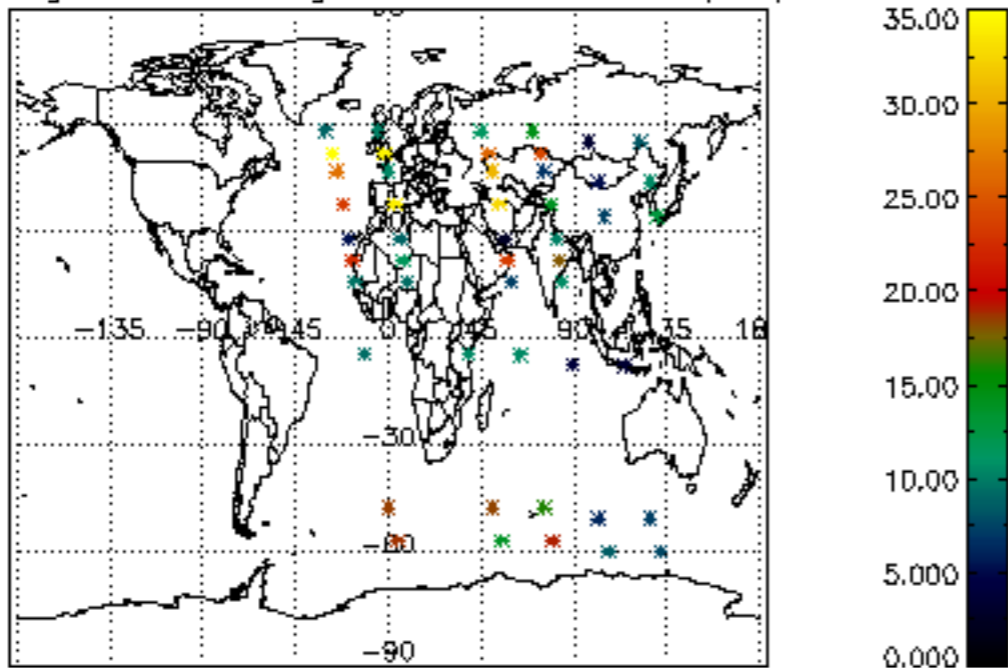
Percentage of cosmic ray hits per profile



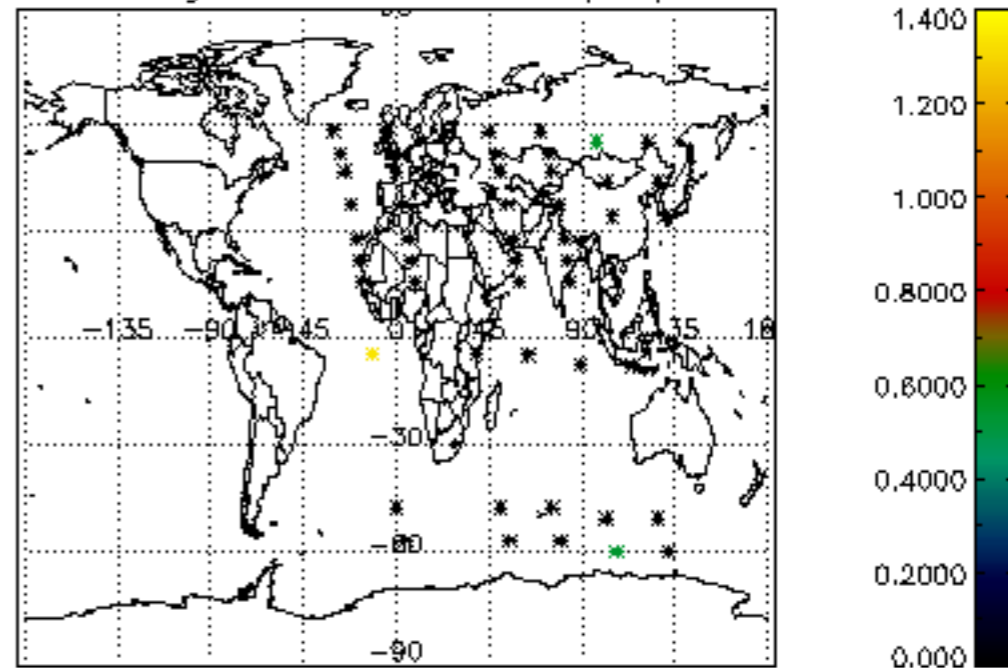
Percentage of datation errors per profile



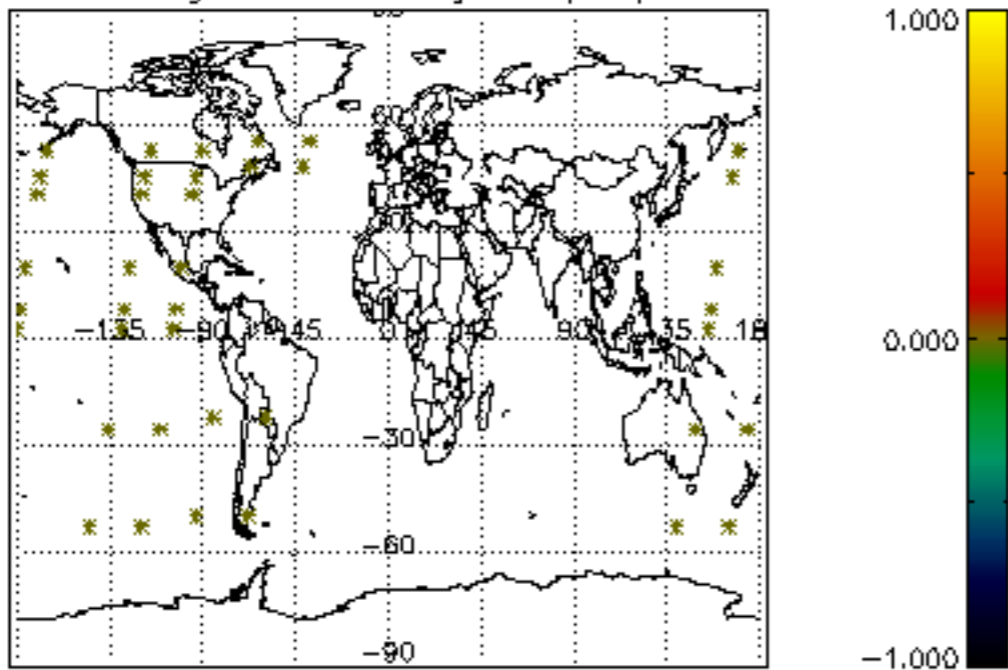
Percentage of star falling outside central band per profile



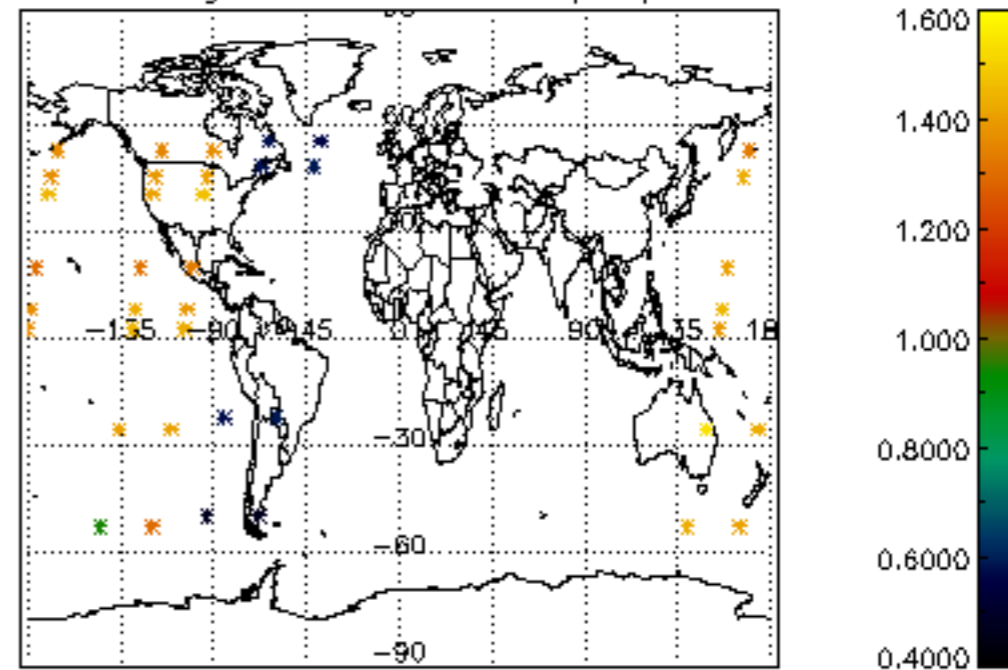
Percentage of saturation errors per profile



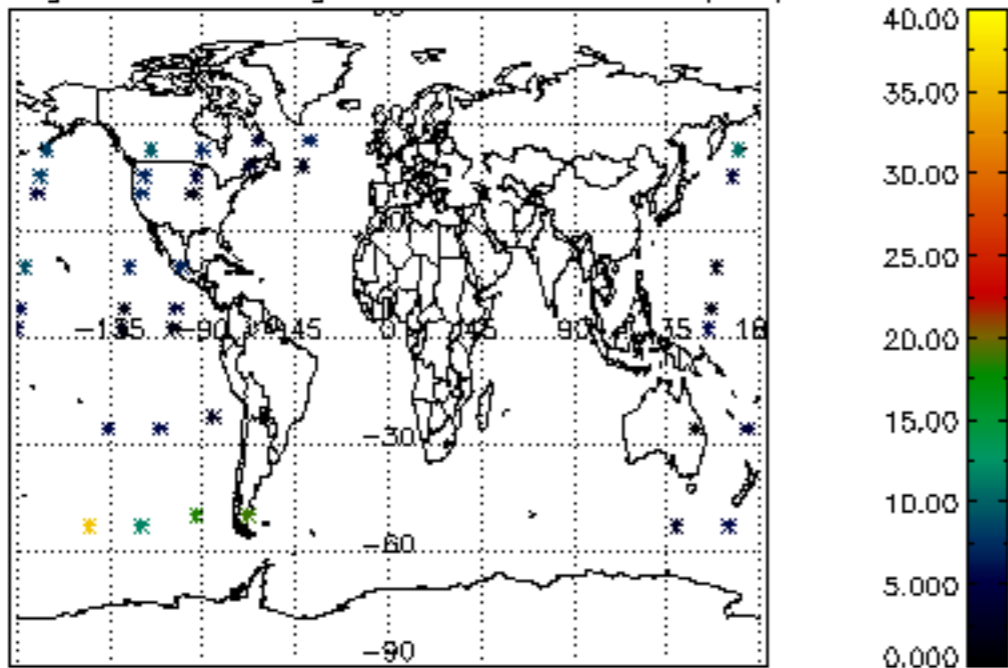
Percentage of cosmic ray hits per profile



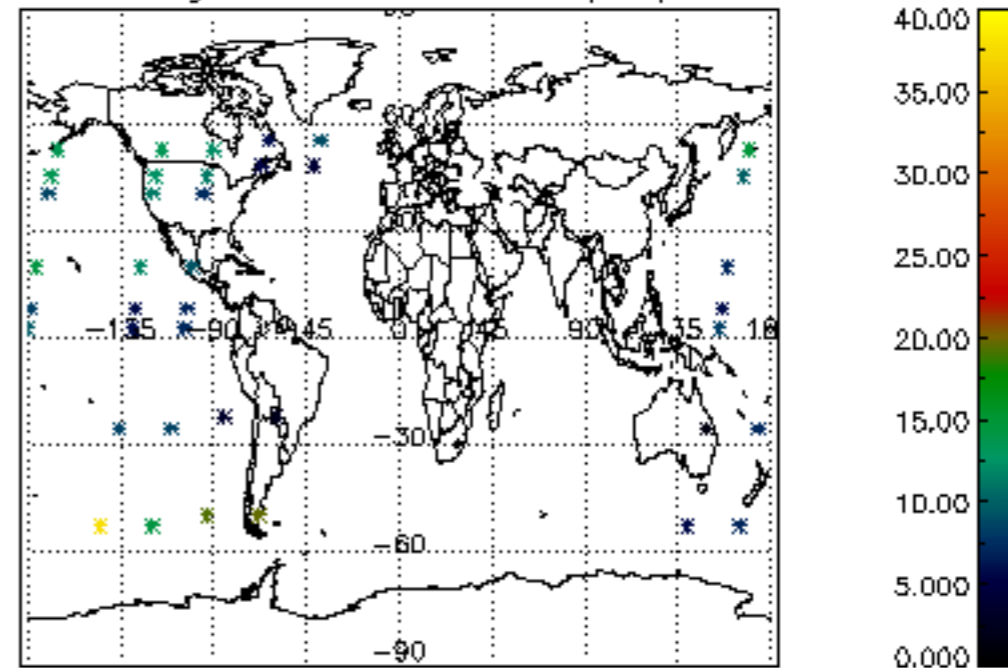
Percentage of datation errors per profile

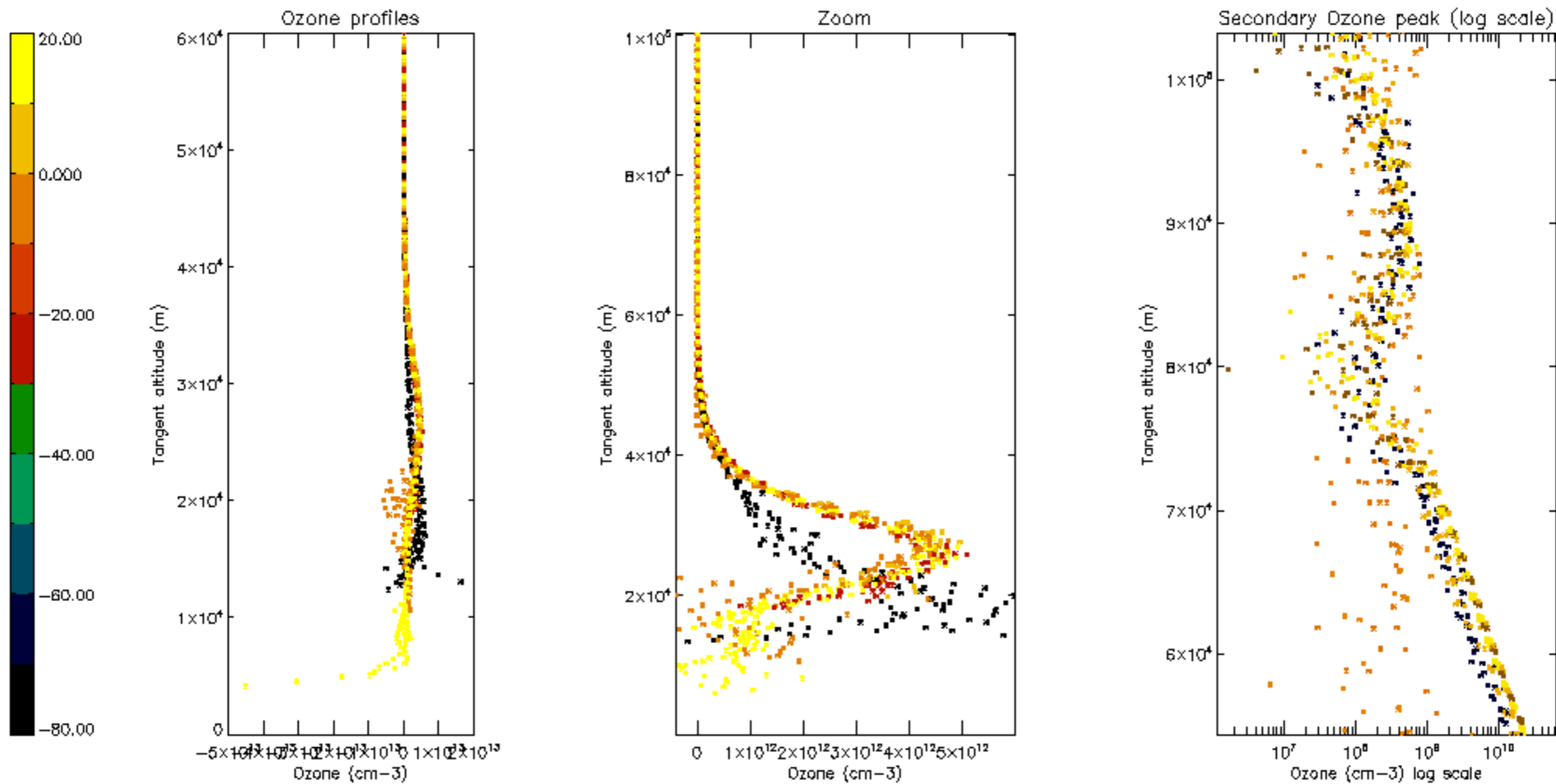


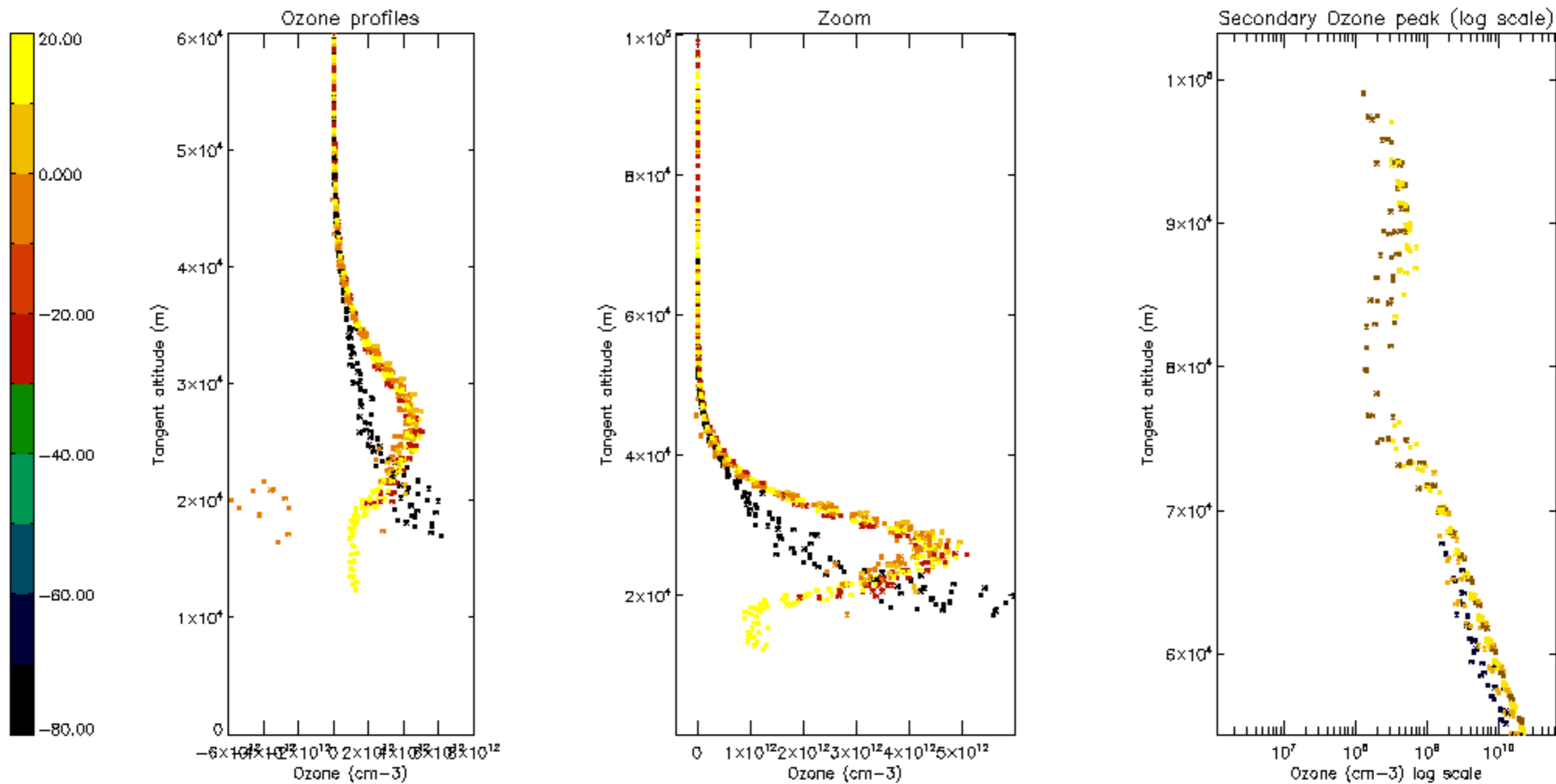
Percentage of star falling outside central band per profile

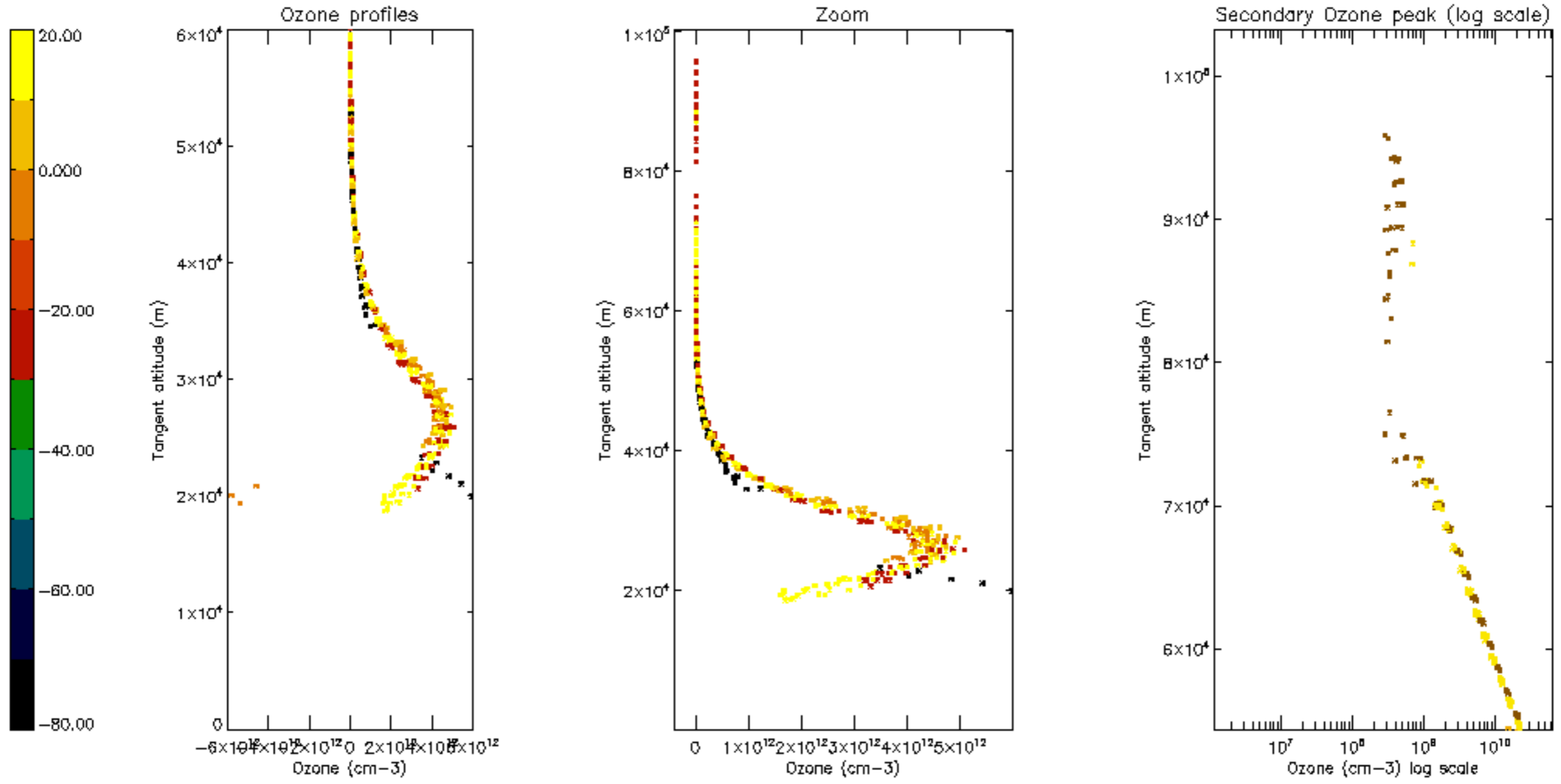


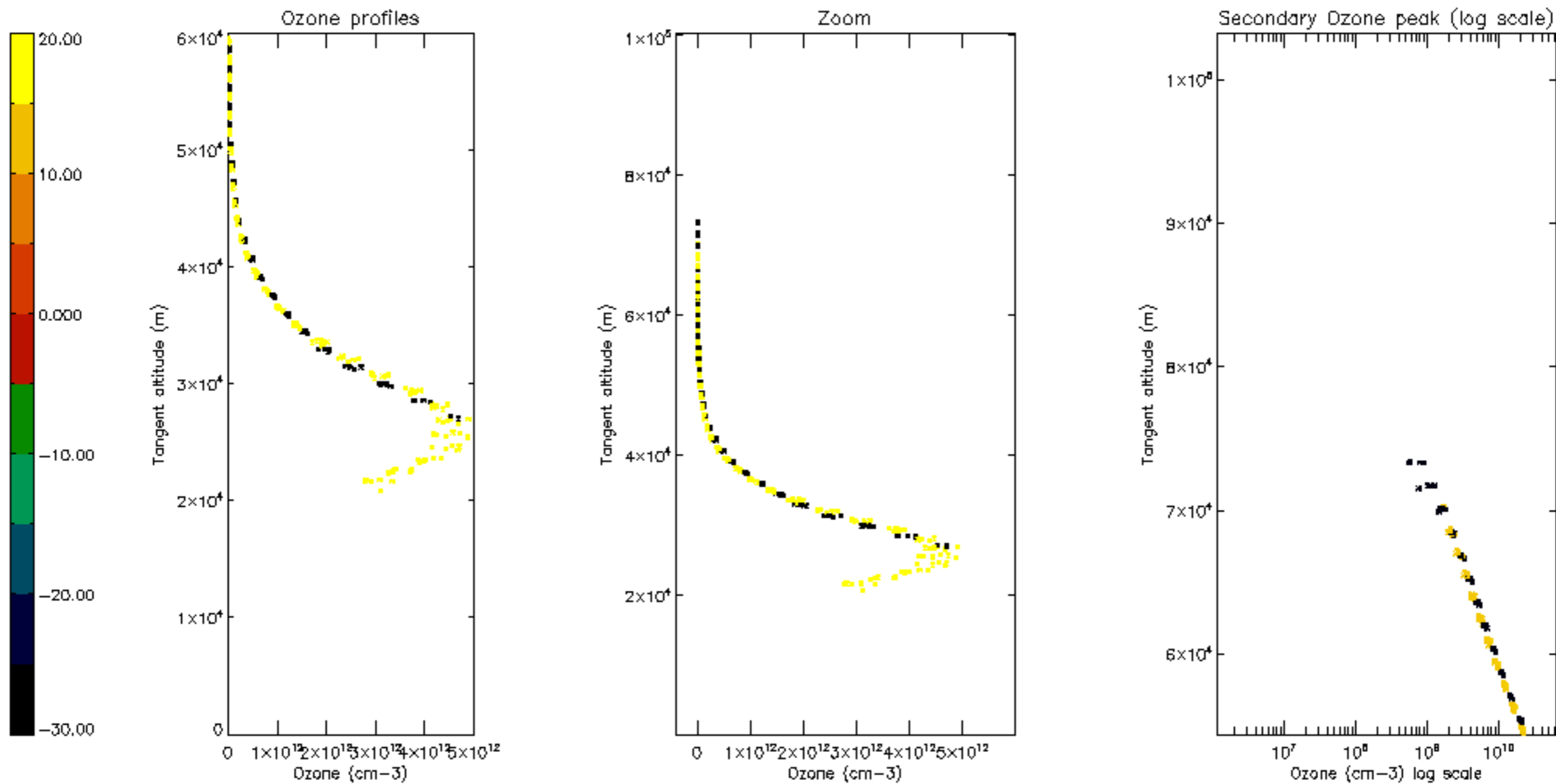
Percentage of saturation errors per profile

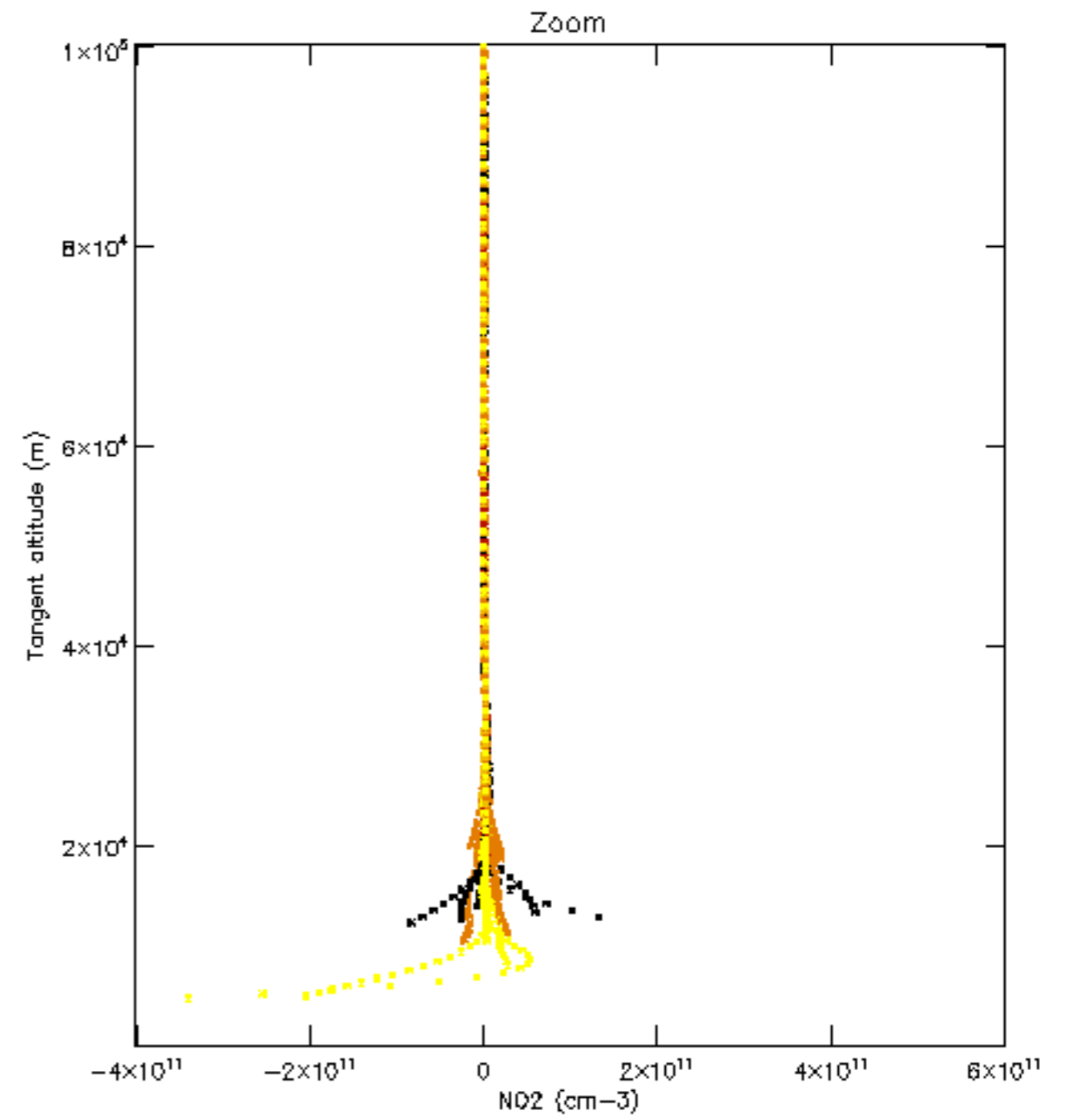
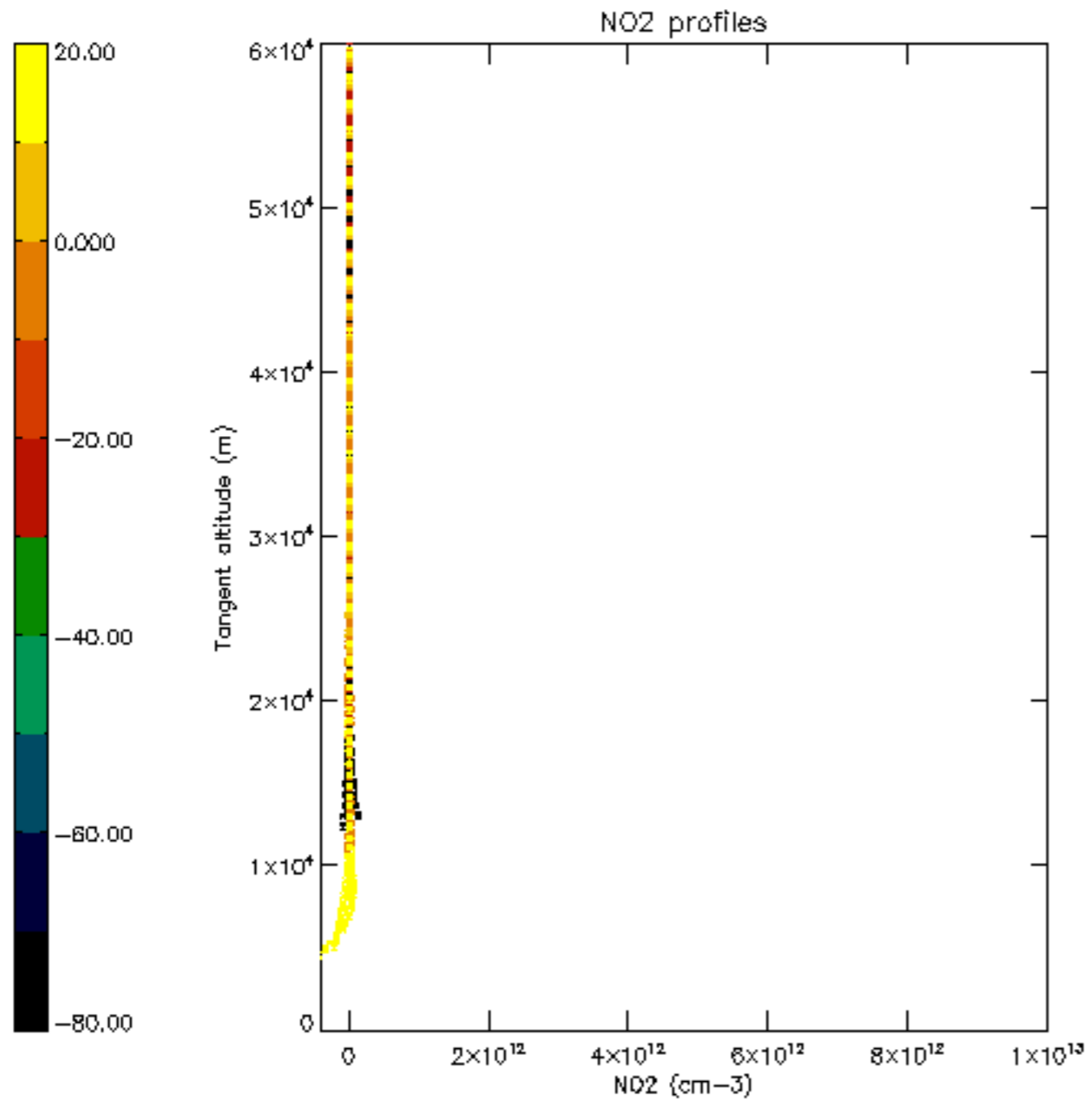


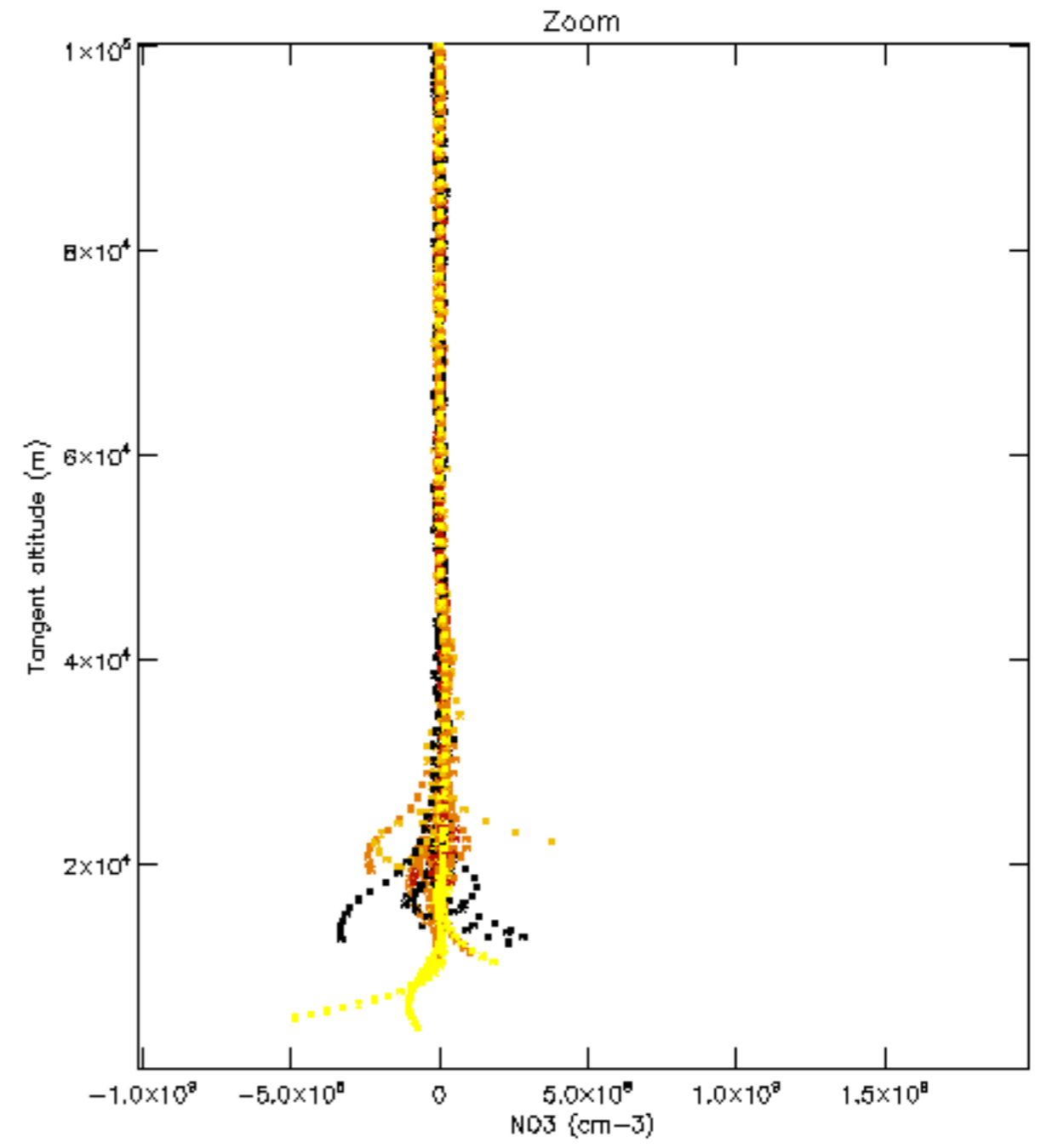
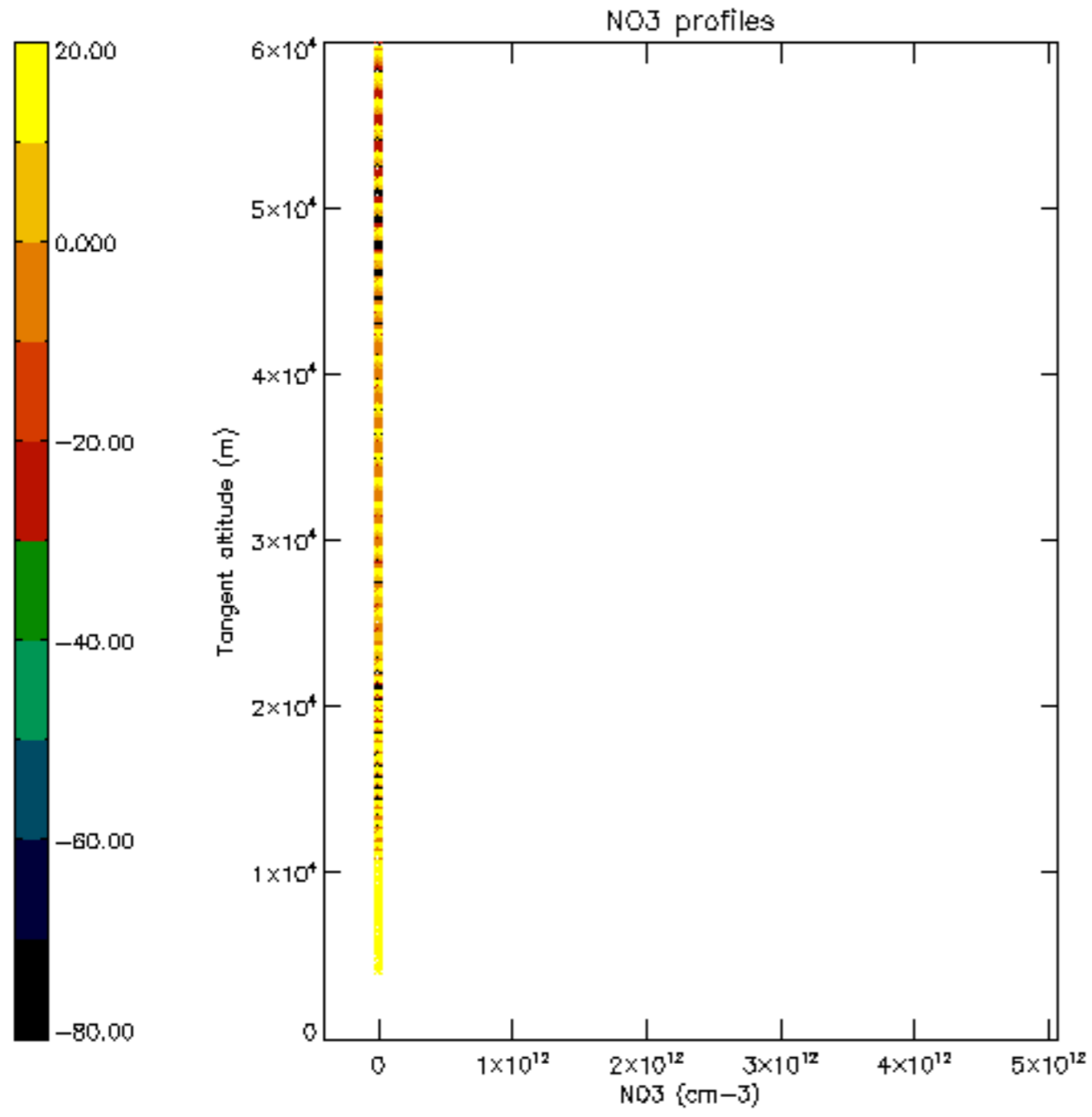


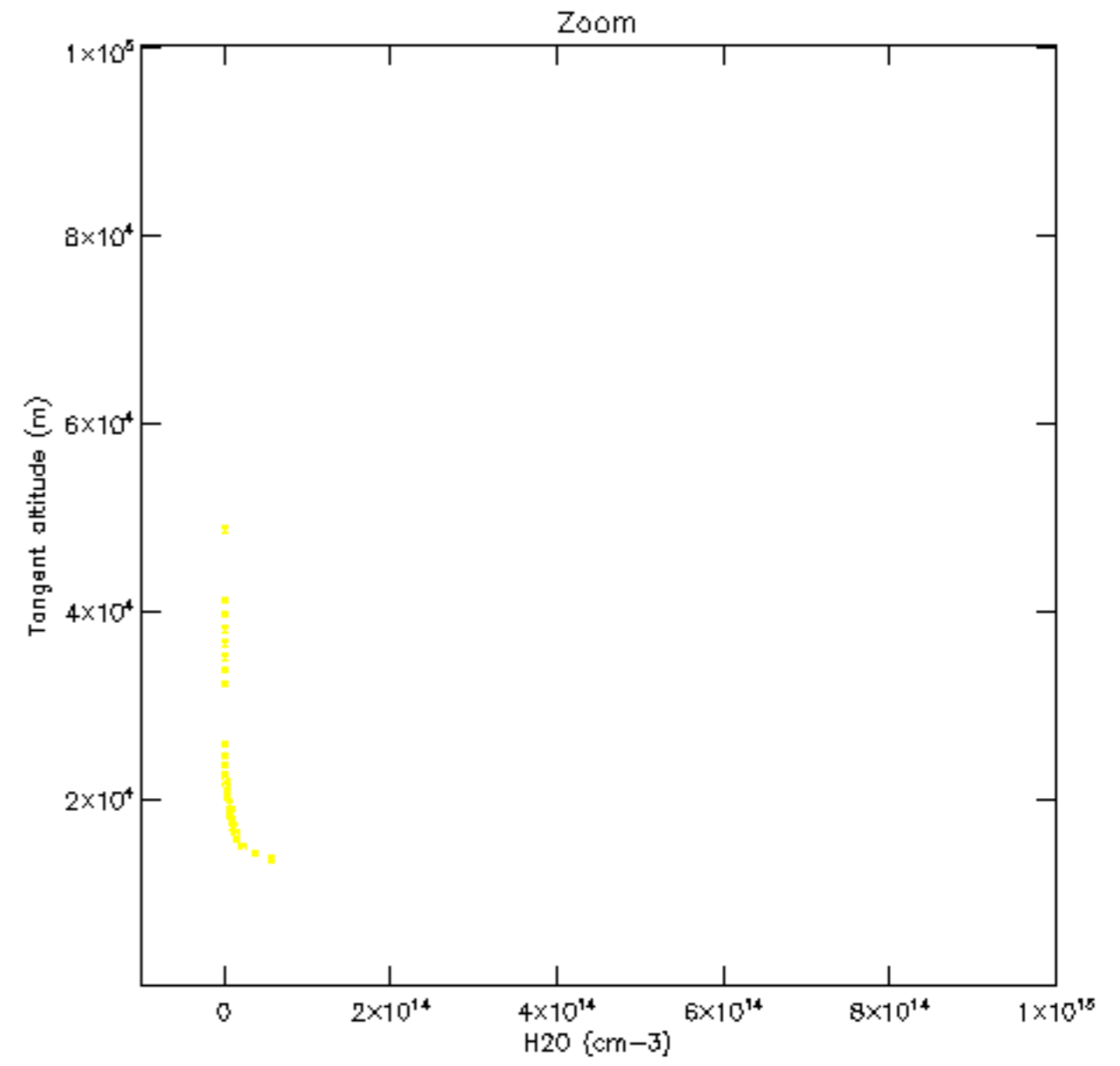
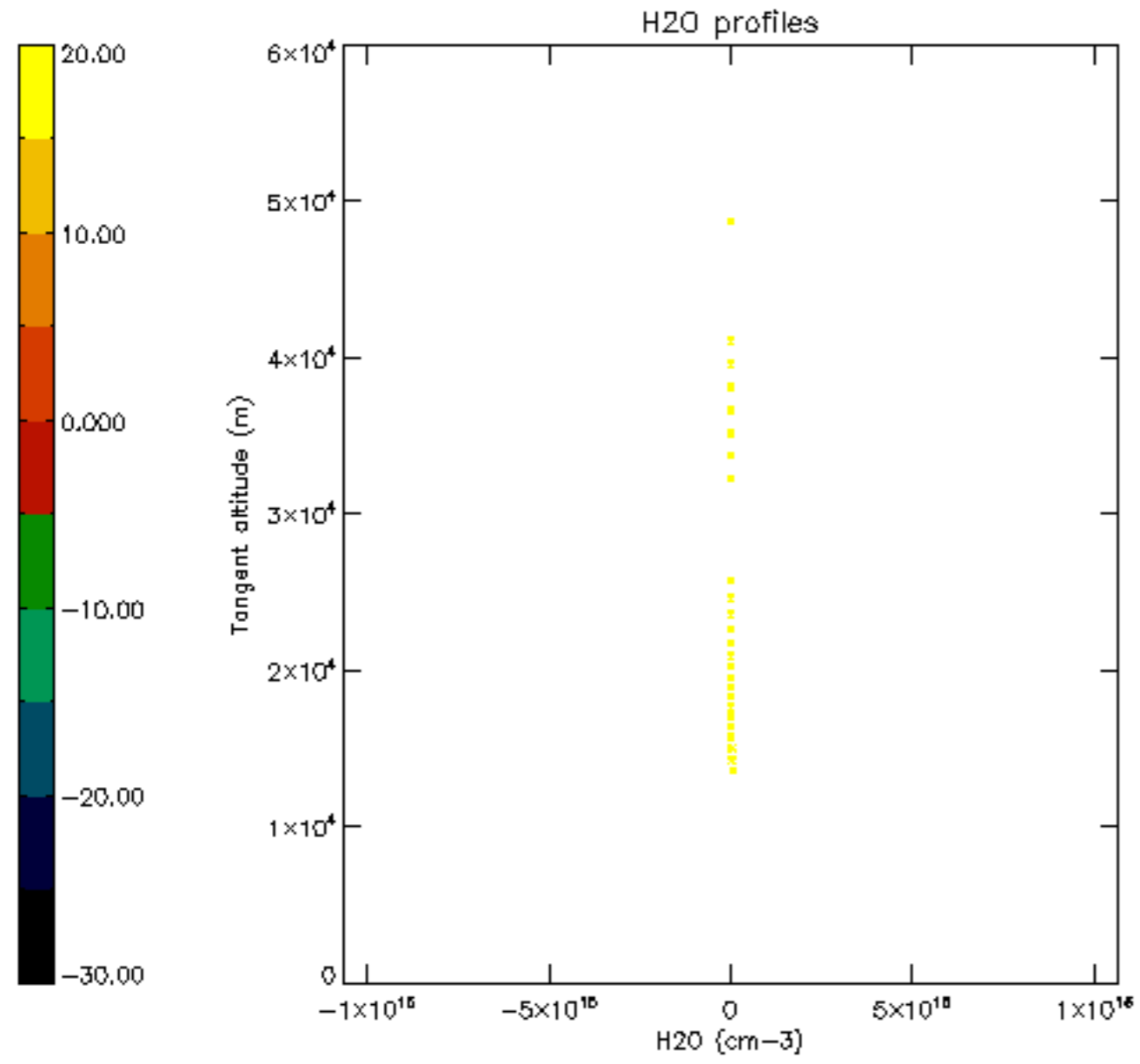


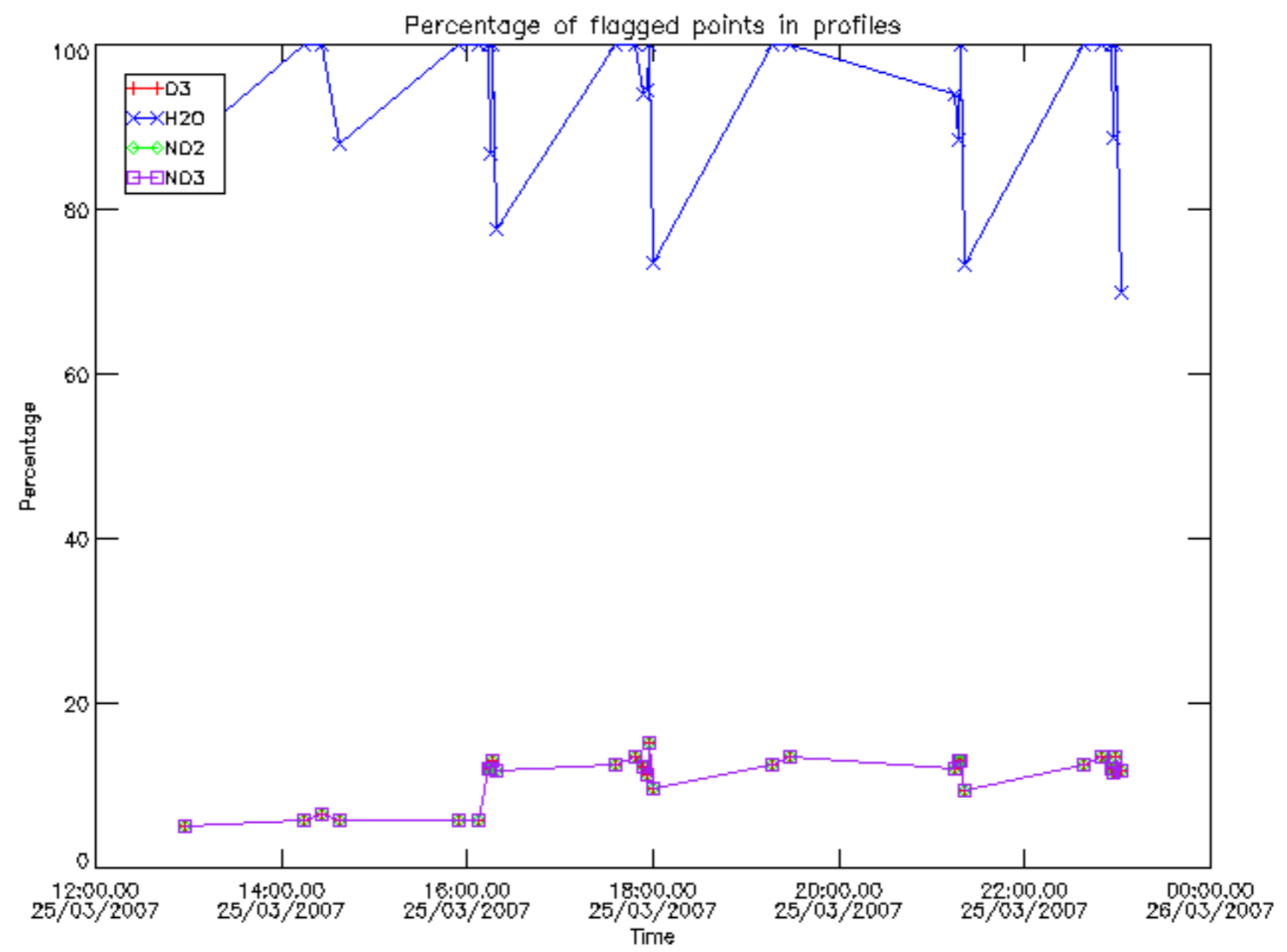




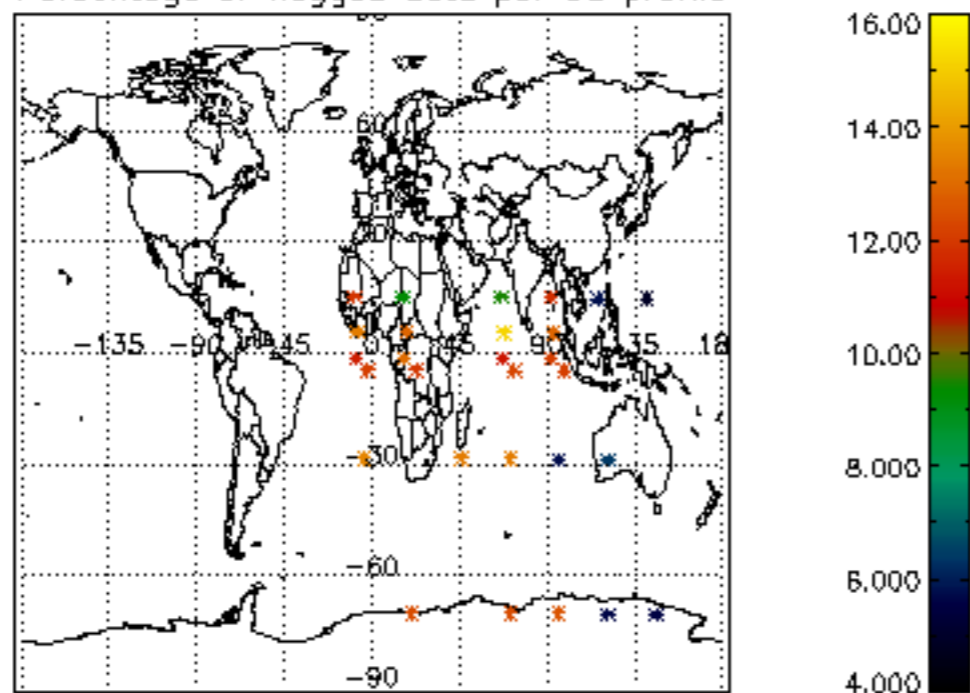




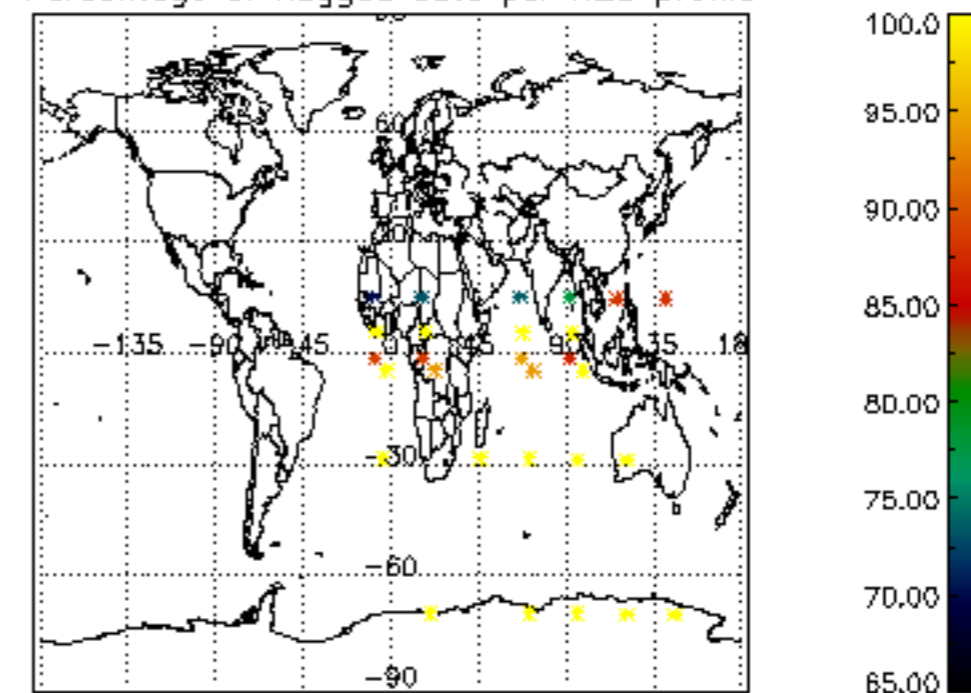




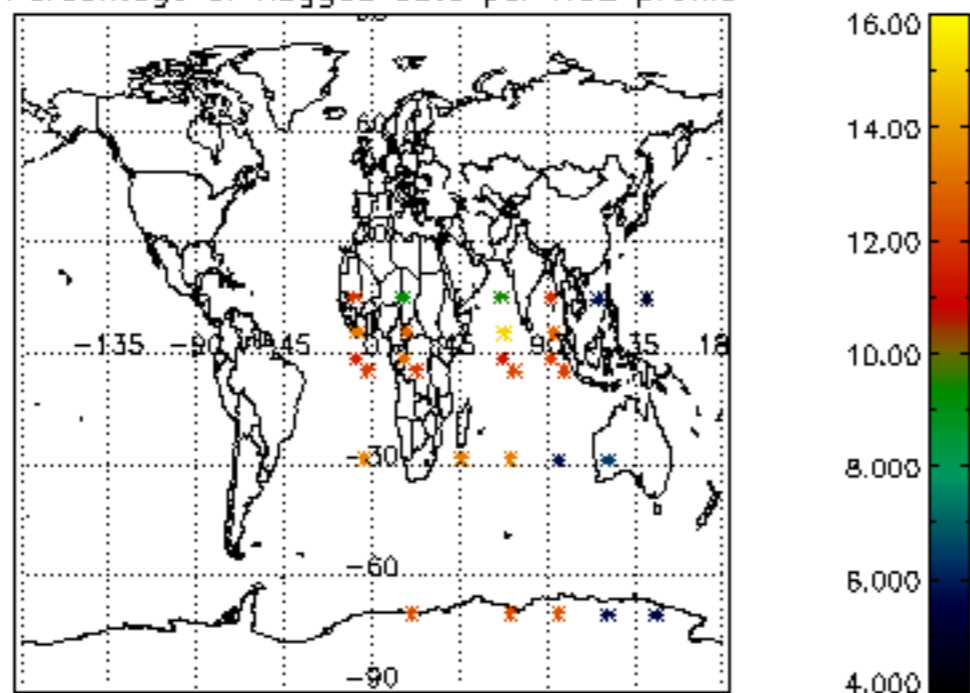
Percentage of flagged data per D3 profile



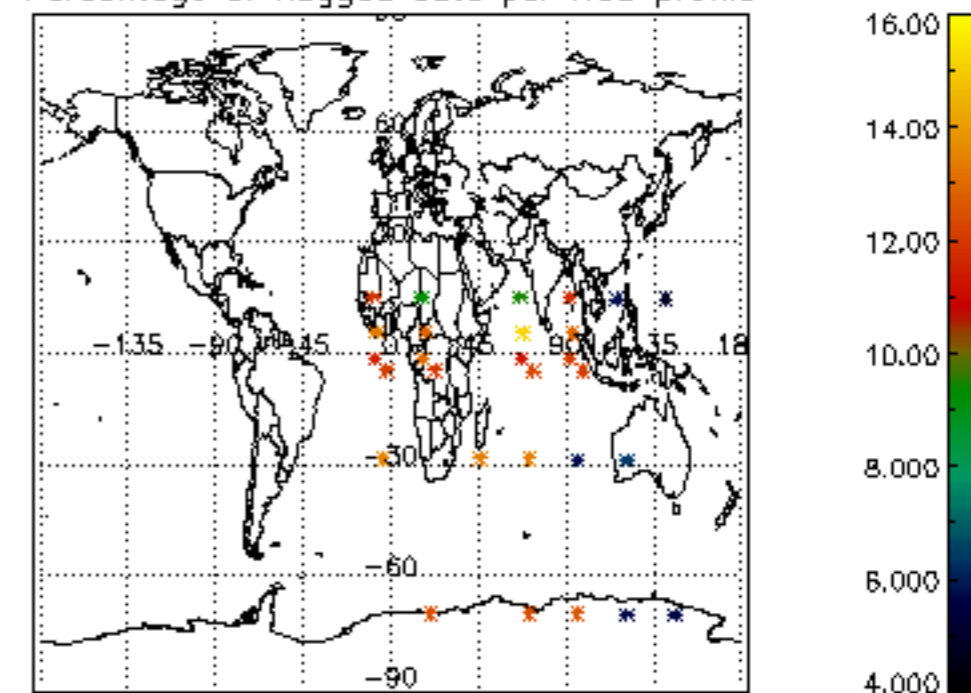
Percentage of flagged data per H2O profile

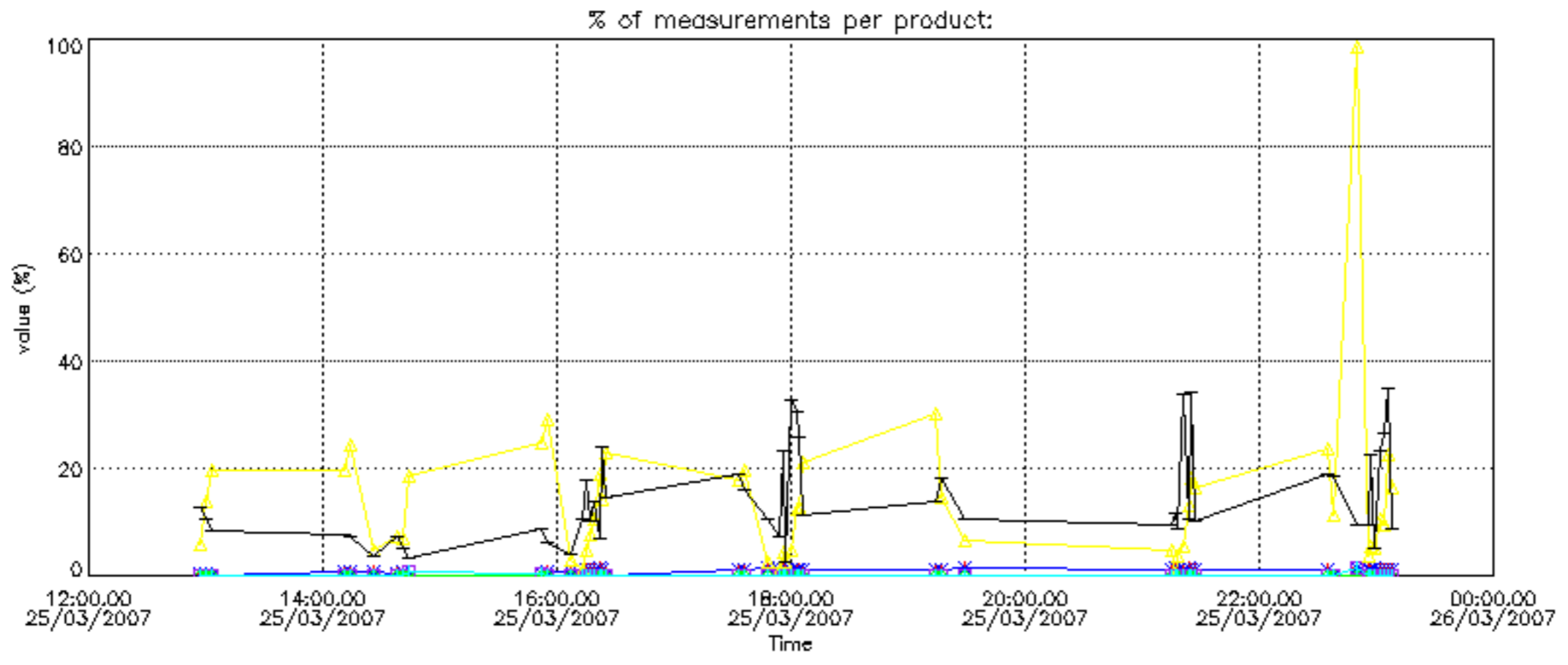


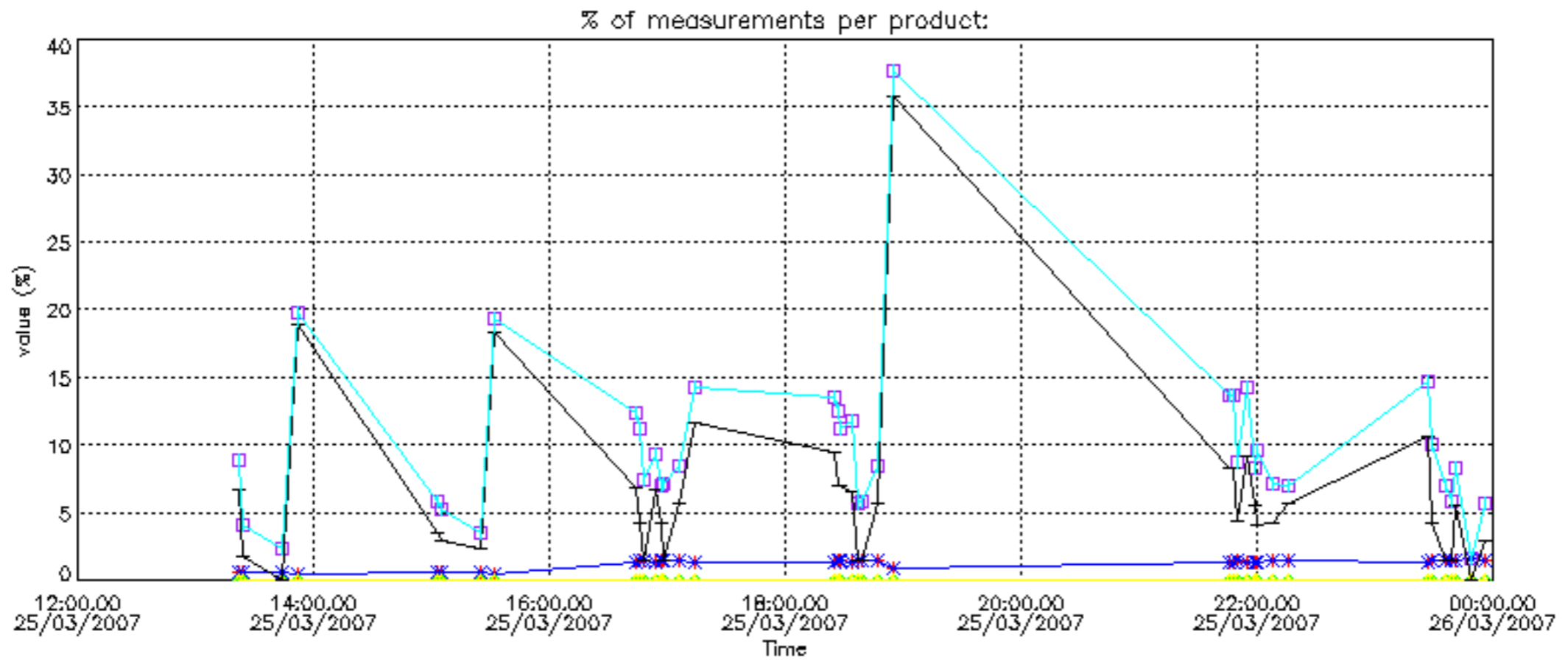
Percentage of flagged data per NO2 profile



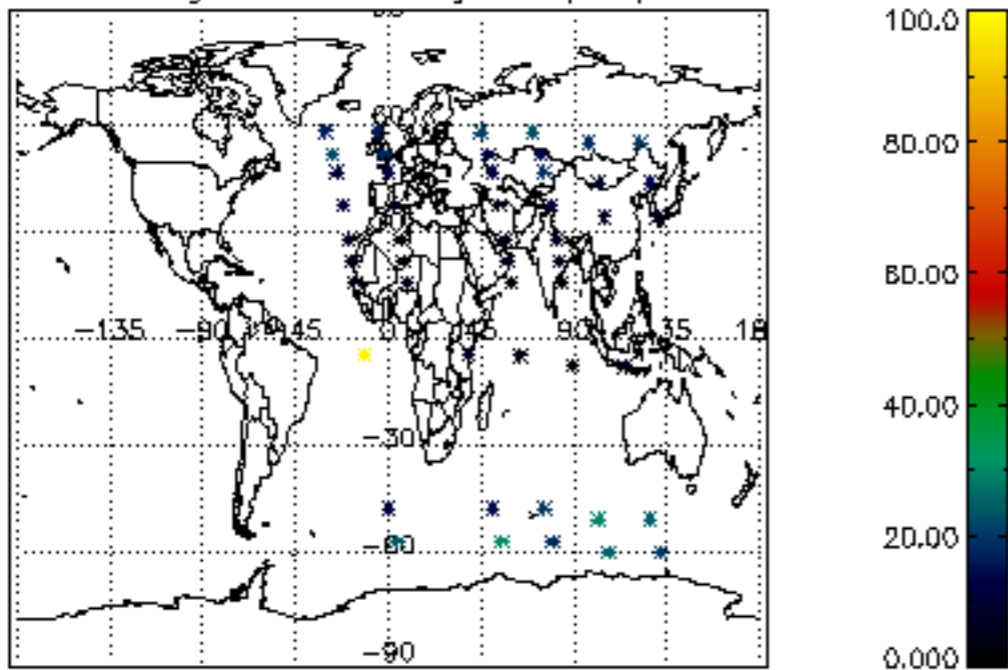
Percentage of flagged data per NO3 profile



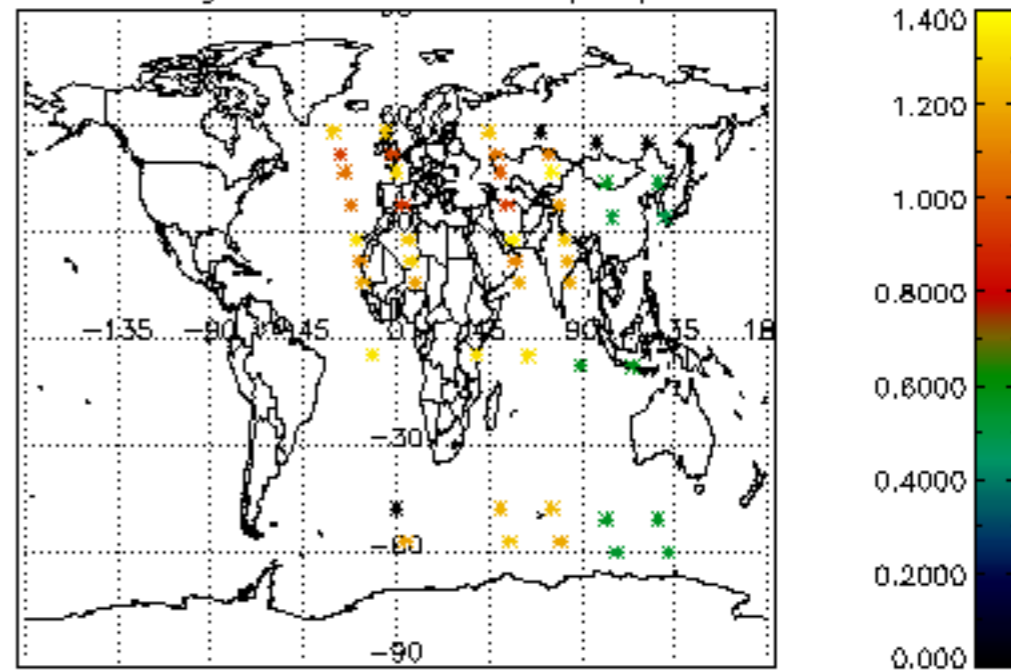




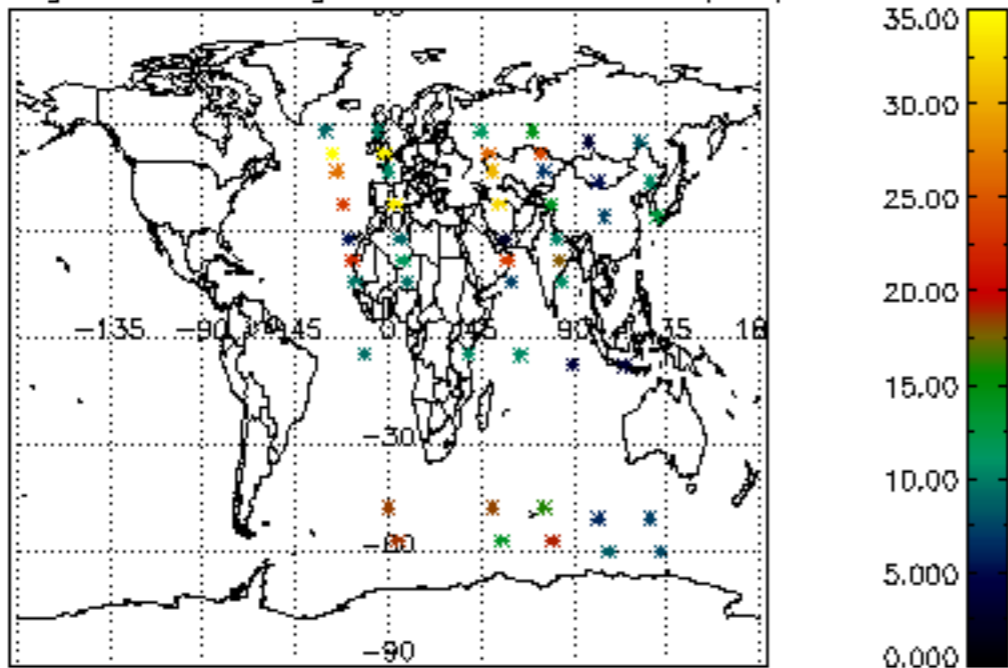
Percentage of cosmic ray hits per profile



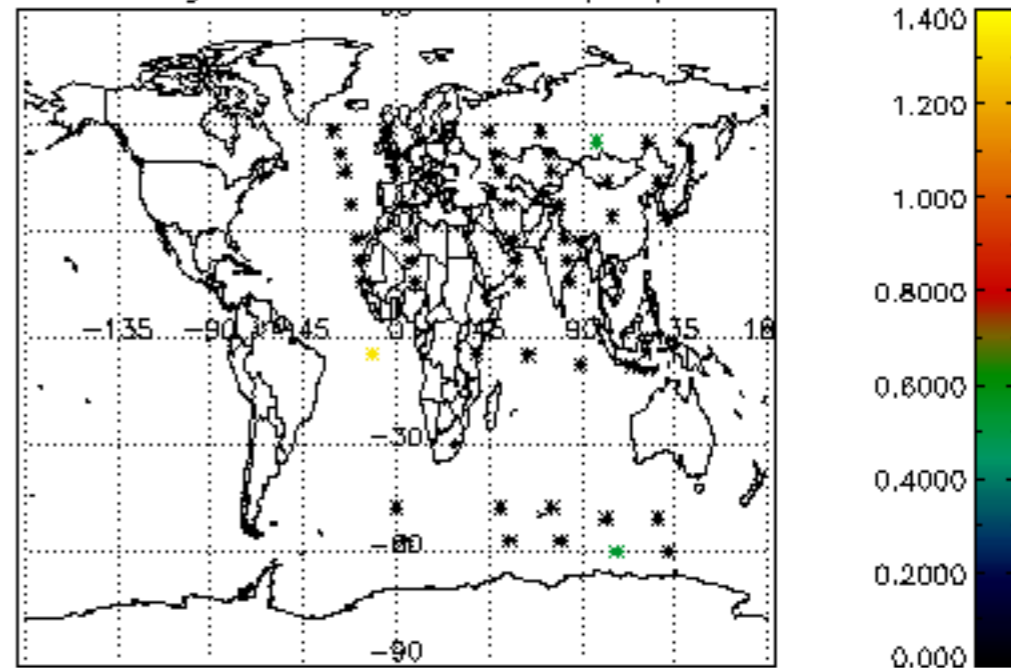
Percentage of datation errors per profile



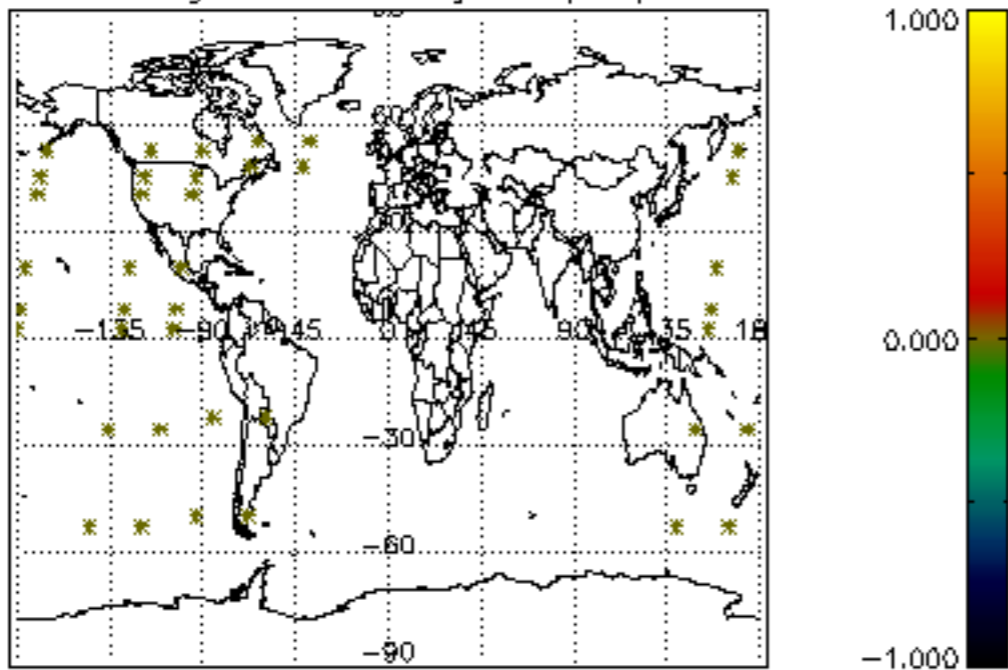
Percentage of star falling outside central band per profile



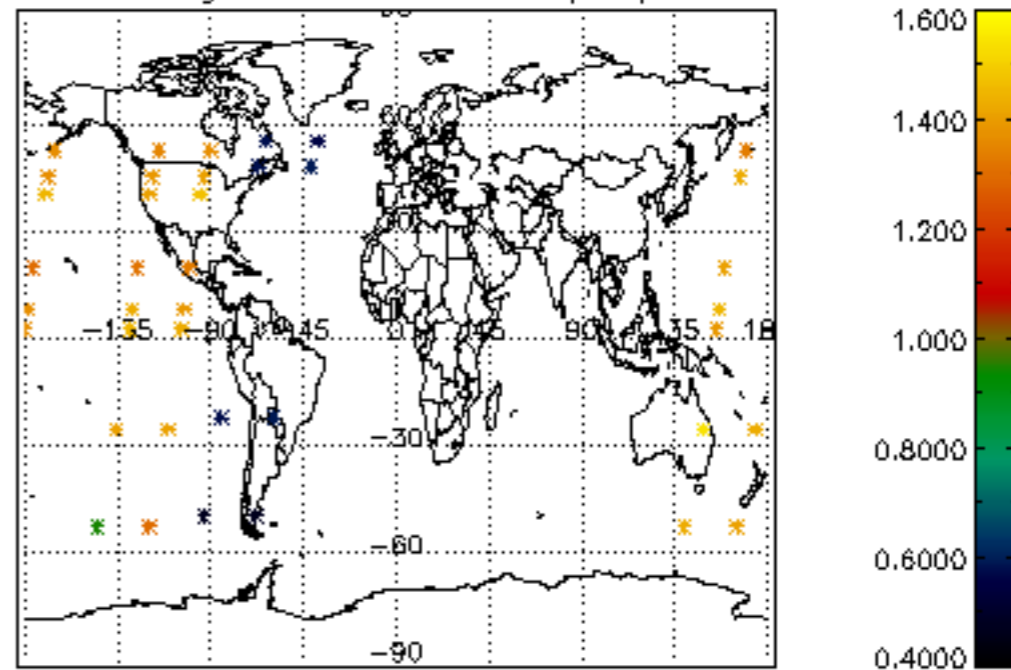
Percentage of saturation errors per profile



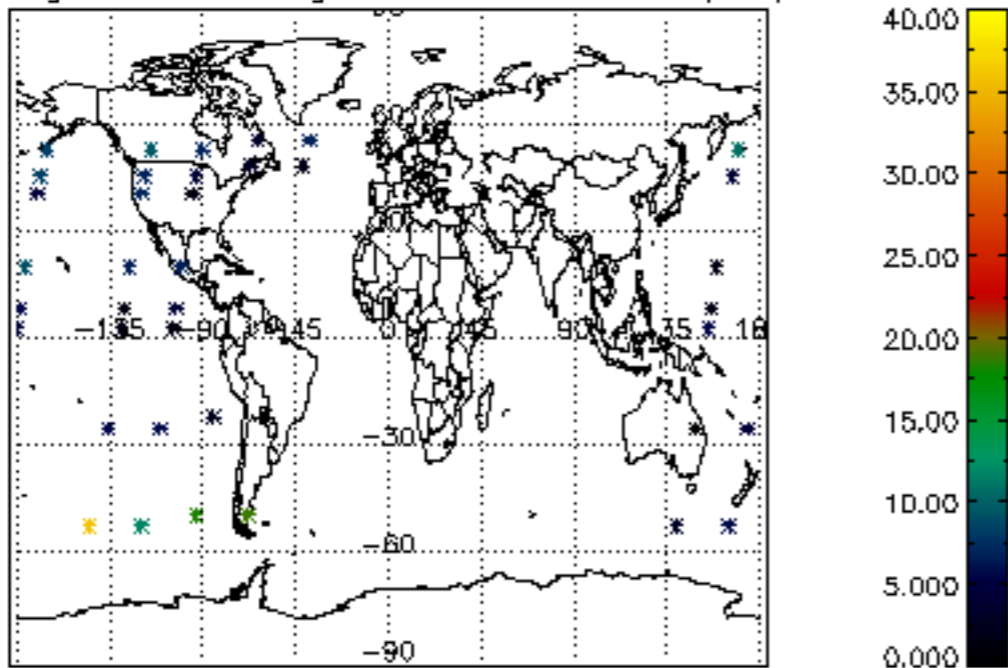
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

