

# 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	18APR2013 10:12:03
Data source version	GOMOS/6.01
Start time of products	28-07-2005 (28JUL2005 00:00:00)
Stop time of products	29-07-2005 (29JUL2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	97
Nb of prods with errors	1

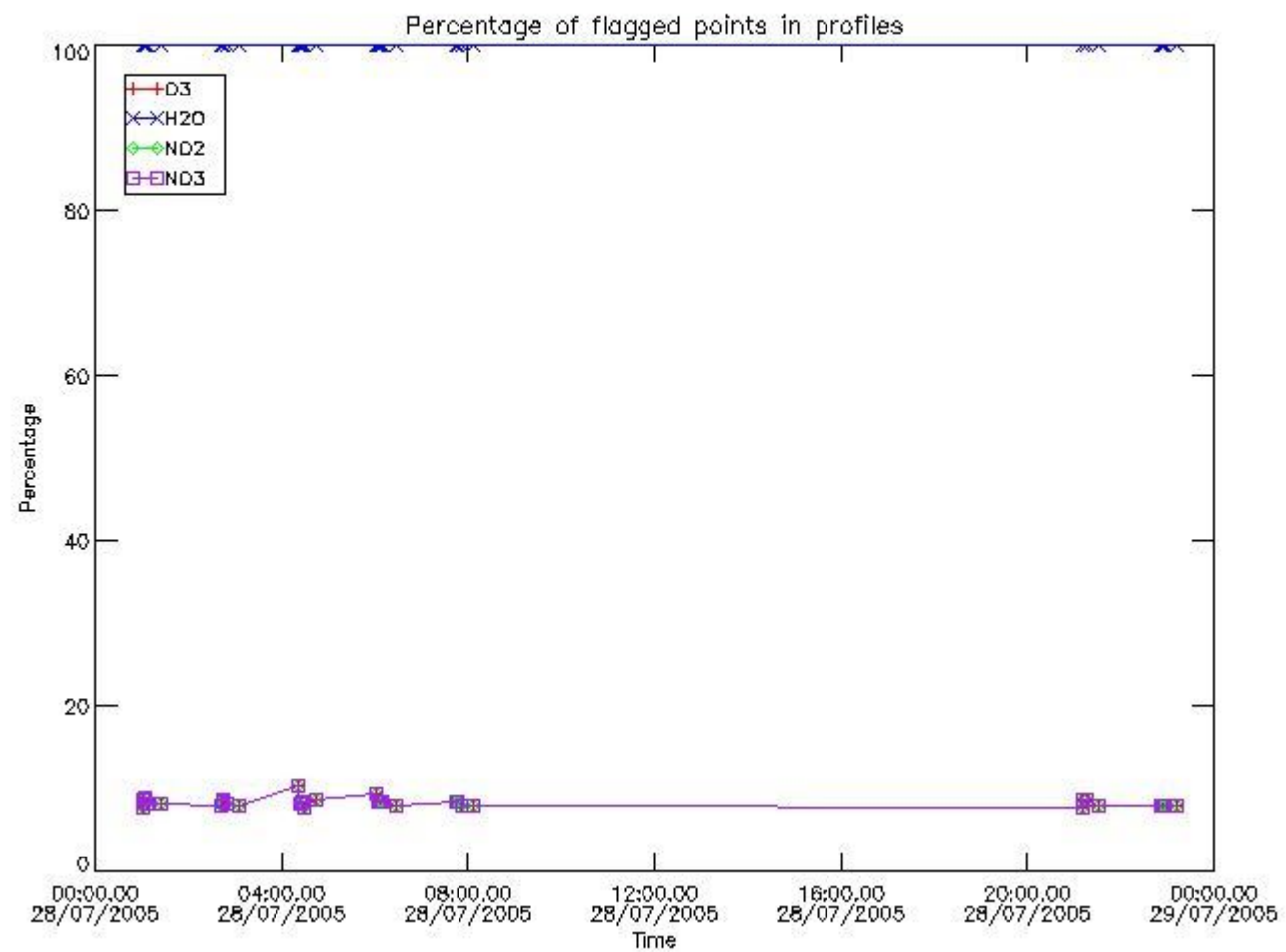
## 2. Summary of processed GOM\_NL\_\_2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20050728_000247_000000642039_00231_17820_5644.N1	28-JUL-2005 00:02:47	Bright	64.000	155	41Pi Sgr	2.9000	6600.0	128	17820	No
2	GOM_NL__2PRFIN20050728_001050_000000652039_00231_17820_5645.N1	28-JUL-2005 00:10:50	Bright	65.000	126	60Bet Oph	2.7700	4250.0	130	17820	No
3	GOM_NL__2PRFIN20050728_001311_000000652039_00231_17820_5646.N1	28-JUL-2005 00:13:11	Bright	65.000	59	55Alp Oph	2.0800	8900.0	130	17820	No
4	GOM_NL__2PRFIN20050728_002329_000000652039_00231_17820_5647.N1	28-JUL-2005 00:23:29	Bright	64.500	69	33Gam Dra	2.2310	3800.0	129	17820	No
5	GOM_NL__2PRFIN20050728_002719_000000652039_00231_17820_5648.N1	28-JUL-2005 00:27:19	Bright	64.500	119	14Eta Dra	2.7270	4700.0	129	17820	No
6	GOM_NL__2PRFIN20050728_003131_000000612039_00231_17820_5649.N1	28-JUL-2005 00:31:31	Bright	60.500	60	7Bet UMi	2.0810	3950.0	121	17820	No
7	GOM_NL__2PRFIN20050728_010035_000000662039_00231_17820_5650.N1	28-JUL-2005 01:00:35	Dark	65.500	33	50Zet Ori	1.7660	30000.	131	17820	No
8	GOM_NL__2PRFIN20050728_010236_000000642039_00231_17820_5651.N1	28-JUL-2005 01:02:36	Dark	64.000	56	53Kap Ori	2.0650	30000.	128	17820	No
9	GOM_NL__2PRFIN20050728_010427_000000632039_00231_17820_5652.N1	28-JUL-2005 01:04:27	Dark	63.000	47	2Bet CMa	1.9760	28000.	126	17820	No
10	GOM_NL__2PRFIN20050728_010749_000000632039_00231_17820_5653.N1	28-JUL-2005 01:07:49	Dark	62.500	177	1Zet CMa	3.0220	26000.	125	17820	No
11	GOM_NL__2PRFIN20050728_012428_000000632039_00232_17821_5644.N1	28-JUL-2005 01:24:28	Dark	63.000	135	Bet Hyi	2.8200	5800.0	126	17821	No
12	GOM_NL__2PRFIN20050728_013232_000000682039_00232_17821_5645.N1	28-JUL-2005 01:32:32	Straylight	68.000	45	Alp Pav	1.9400	26000.	136	17821	No
13	GOM_NL__2PRFIN20050728_014008_000000732039_00232_17821_5646.N1	28-JUL-2005 01:40:08	Bright	72.500	38	20Eps Sgr	1.8360	11000.	145	17821	No
14	GOM_NL__2PRFIN20050728_014323_000000642039_00232_17821_5647.N1	28-JUL-2005 01:43:23	Bright	63.500	155	41Pi Sgr	2.9000	6600.0	127	17821	No
15	GOM_NL__2PRFIN20050728_015126_000000662039_00232_17821_5648.N1	28-JUL-2005 01:51:26	Bright	65.500	126	60Bet Oph	2.7700	4250.0	131	17821	No
16	GOM_NL__2PRFIN20050728_015347_000000652039_00232_17821_5649.N1	28-JUL-2005 01:53:47	Bright	64.500	59	55Alp Oph	2.0800	8900.0	129	17821	No
17	GOM_NL__2PRFIN20050728_020405_000000612039_00232_17821_5650.N1	28-JUL-2005 02:04:05	Bright	60.500	69	33Gam Dra	2.2310	3800.0	121	17821	No
18	GOM_NL__2PRFIN20050728_020755_000000642039_00232_17821_5651.N1	28-JUL-2005 02:07:55	Bright	64.000	119	14Eta Dra	2.7270	4700.0	128	17821	No
19	GOM_NL__2PRFIN20050728_021207_000000622039_00232_17821_5652.N1	28-JUL-2005 02:12:07	Bright	61.500	60	7Bet UMi	2.0810	3950.0	123	17821	No
20	GOM_NL__2PRFIN20050728_024111_000000652039_00232_17821_5653.N1	28-JUL-2005 02:41:11	Dark	65.000	33	50Zet Ori	1.7660	30000.	130	17821	No
21	GOM_NL__2PRFIN20050728_024312_000000642039_00232_17821_5654.N1	28-JUL-2005 02:43:12	Dark	64.000	56	53Kap Ori	2.0650	30000.	128	17821	No
22	GOM_NL__2PRFIN20050728_024503_000000602039_00232_17821_5655.N1	28-JUL-2005 02:45:03	Dark	60.000	47	2Bet CMa	1.9760	28000.	120	17821	No
23	GOM_NL__2PRFIN20050728_024825_000000622039_00232_17821_5656.N1	28-JUL-2005 02:48:25	Dark	62.000	177	1Zet CMa	3.0220	26000.	124	17821	No
24	GOM_NL__2PRFIN20050728_030504_000000642039_00233_17822_5666.N1	28-JUL-2005 03:05:04	Dark	64.000	135	Bet Hyi	2.8200	5800.0	128	17822	No
25	GOM_NL__2PRFIN20050728_031308_000000672039_00233_17822_5667.N1	28-JUL-2005 03:13:08	Straylight	67.000	45	Alp Pav	1.9400	26000.	134	17822	No
26	GOM_NL__2PRFIN20050728_032044_000000682039_00233_17822_5668.N1	28-JUL-2005 03:20:44	Bright	68.000	38	20Eps Sgr	1.8360	11000.	136	17822	No
27	GOM_NL__2PRFIN20050728_032359_000000642039_00233_17822_5669.N1	28-JUL-2005 03:23:59	Bright	64.000	155	41Pi Sgr	2.9000	6600.0	128	17822	No
28	GOM_NL__2PRFIN20050728_033203_000000662039_00233_17822_5670.N1	28-JUL-2005 03:32:03	Bright	66.000	126	60Bet Oph	2.7700	4250.0	132	17822	No
29	GOM_NL__2PRFIN20050728_033423_000000652039_00233_17822_5671.N1	28-JUL-2005 03:34:23	Bright	65.000	59	55Alp Oph	2.0800	8900.0	130	17822	No
30	GOM_NL__2PRFIN20050728_034442_000000622039_00233_17822_5672.N1	28-JUL-2005 03:44:42	Bright	62.000	69	33Gam Dra	2.2310	3800.0	124	17822	No
31	GOM_NL__2PRFIN20050728_034831_000000612039_00233_17822_5673.N1	28-JUL-2005 03:48:31	Bright	61.000	119	14Eta Dra	2.7270	4700.0	122	17822	No
32	GOM_NL__2PRFIN20050728_035244_000000602039_00233_17822_5674.N1	28-JUL-2005 03:52:44	Bright	60.000	60	7Bet UMi	2.0810	3950.0	120	17822	No
33	GOM_NL__2PRFIN20050728_042147_000000542039_00233_17822_5675.N1	28-JUL-2005 04:21:47	Dark	54.000	33	50Zet Ori	1.7660	30000.	108	17822	No
34	GOM_NL__2PRFIN20050728_042348_000000632039_00233_17822_5676.N1	28-JUL-2005 04:23:48	Dark	62.500	56	53Kap Ori	2.0650	30000.	125	17822	No
35	GOM_NL__2PRFIN20050728_042539_000000612039_00233_17822_5677.N1	28-JUL-2005 04:25:39	Dark	61.000	47	2Bet CMa	1.9760	28000.	122	17822	No
36	GOM_NL__2PRFIN20050728_042902_000000662039_00233_17822_5678.N1	28-JUL-2005 04:29:02	Dark	65.500	177	1Zet CMa	3.0220	26000.	131	17822	No
37	GOM_NL__2PRFIN20050728_044540_000000642039_00234_17823_5668.N1	28-JUL-2005 04:45:40	Dark	64.000	135	Bet Hyi	2.8200	5800.0	128	17823	No
38	GOM_NL__2PRFIN20050728_045344_000000682039_00234_17823_5669.N1	28-JUL-2005 04:53:44	Straylight	67.500	45	Alp Pav	1.9400	26000.	135	17823	No
39	GOM_NL__2PRFIN20050728_050120_000000682039_00234_17823_5670.N1	28-JUL-2005 05:01:20	Bright	67.500	38	20Eps Sgr	1.8360	11000.	135	17823	No
40	GOM_NL__2PRFIN20050728_050435_000000652039_00234_17823_5671.N1	28-JUL-2005 05:04:35	Bright	64.500	155	41Pi Sgr	2.9000	6600.0	129	17823	No
41	GOM_NL__2PRFIN20050728_051239_000000662039_00234_17823_5672.N1	28-JUL-2005 05:12:39	Bright	65.500	126	60Bet Oph	2.7700	4250.0	131	17823	No
42	GOM_NL__2PRFIN20050728_051500_000000632039_00234_17823_5673.N1	28-JUL-2005 05:15:00	Bright	63.000	59	55Alp Oph	2.0800	8900.0	126	17823	No

43	GOM_NL__2PRFIN20050728_052518_000000642039_00234_17823_5674.N1	28-JUL-2005 05:25:18	Bright	63.500	69	33Gam Dra	2.2310	3800.0	127	17823	No
44	GOM_NL__2PRFIN20050728_052907_000000602039_00234_17823_5675.N1	28-JUL-2005 05:29:07	Bright	59.500	119	14Eta Dra	2.7270	4700.0	119	17823	No
45	GOM_NL__2PRFIN20050728_053320_000000632039_00234_17823_5676.N1	28-JUL-2005 05:33:20	Bright	62.500	60	7Bet UMi	2.0810	3950.0	125	17823	No
46	GOM_NL__2PRFIN20050728_060223_000000542039_00234_17823_5677.N1	28-JUL-2005 06:02:23	Dark	54.000	33	50Zet Ori	1.7660	30000.	108	17823	No
47	GOM_NL__2PRFIN20050728_060424_000000612039_00234_17823_5678.N1	28-JUL-2005 06:04:24	Dark	60.500	56	53Kap Ori	2.0650	30000.	121	17823	No
48	GOM_NL__2PRFIN20050728_060615_000000602039_00234_17823_5679.N1	28-JUL-2005 06:06:15	Dark	60.000	47	2Bet CMa	1.9760	28000.	120	17823	No
49	GOM_NL__2PRFIN20050728_060938_000000662039_00234_17823_5680.N1	28-JUL-2005 06:09:38	Dark	65.500	177	1Zet CMa	3.0220	26000.	131	17823	No
50	GOM_NL__2PRFIN20050728_062616_000000652039_00235_17824_5670.N1	28-JUL-2005 06:26:16	Dark	64.500	135	Bet Hyi	2.8200	5800.0	129	17824	No
51	GOM_NL__2PRFIN20050728_063420_000000652039_00235_17824_5671.N1	28-JUL-2005 06:34:20	Straylight	65.000	45	Alp Pav	1.9400	26000.	130	17824	No
52	GOM_NL__2PRFIN20050728_064157_000000702039_00235_17824_5672.N1	28-JUL-2005 06:41:57	Bright	69.500	38	20Eps Sgr	1.8360	11000.	139	17824	No
53	GOM_NL__2PRFIN20050728_064511_000000642039_00235_17824_5673.N1	28-JUL-2005 06:45:11	Bright	63.500	155	41Pi Sgr	2.9000	6600.0	127	17824	No
54	GOM_NL__2PRFIN20050728_065315_000000642039_00235_17824_5674.N1	28-JUL-2005 06:53:15	Bright	64.000	126	60Bet Oph	2.7700	4250.0	128	17824	No
55	GOM_NL__2PRFIN20050728_065536_000000622039_00235_17824_5675.N1	28-JUL-2005 06:55:36	Bright	62.000	59	55Alp Oph	2.0800	8900.0	124	17824	No
56	GOM_NL__2PRFIN20050728_070554_000000642039_00235_17824_5676.N1	28-JUL-2005 07:05:54	Bright	63.500	69	33Gam Dra	2.2310	3800.0	127	17824	No
57	GOM_NL__2PRFIN20050728_070944_000000622039_00235_17824_5677.N1	28-JUL-2005 07:09:44	Bright	62.000	119	14Eta Dra	2.7270	4700.0	124	17824	No
58	GOM_NL__2PRFIN20050728_071356_000000622039_00235_17824_5678.N1	28-JUL-2005 07:13:56	Bright	62.000	60	7Bet UMi	2.0810	3950.0	124	17824	No
59	GOM_NL__2PRFIN20050728_074501_000000602039_00235_17824_5679.N1	28-JUL-2005 07:45:01	Dark	60.000	56	53Kap Ori	2.0650	30000.	120	17824	No
60	GOM_NL__2PRFIN20050728_074652_000000602039_00235_17824_5680.N1	28-JUL-2005 07:46:52	Dark	60.000	47	2Bet CMa	1.9760	28000.	120	17824	No
61	GOM_NL__2PRFIN20050728_075014_000000642039_00235_17824_5681.N1	28-JUL-2005 07:50:14	Dark	64.000	177	1Zet CMa	3.0220	26000.	128	17824	No
62	GOM_NL__2PRFIN20050728_080652_000000652039_00236_17825_5671.N1	28-JUL-2005 08:06:52	Dark	64.500	135	Bet Hyi	2.8200	5800.0	129	17825	No
63	GOM_NL__2PRFIN20050728_081457_000000672039_00236_17825_5672.N1	28-JUL-2005 08:14:57	Straylight	66.500	45	Alp Pav	1.9400	26000.	133	17825	No
64	GOM_NL__2PRFIN20050728_082233_000000672039_00236_17825_5673.N1	28-JUL-2005 08:22:33	Bright	66.500	38	20Eps Sgr	1.8360	11000.	133	17825	No
65	GOM_NL__2PRFIN20050728_082548_000000642039_00236_17825_5674.N1	28-JUL-2005 08:25:48	Bright	64.000	155	41Pi Sgr	2.9000	6600.0	128	17825	No
66	GOM_NL__2PRFIN20050728_195910_000000652039_00243_17832_5688.N1	28-JUL-2005 19:59:10	Dark	65.000	45	Alp Pav	1.9400	26000.	130	17832	Yes
67	GOM_NL__2PRFIN20050728_200645_000000672039_00243_17832_5689.N1	28-JUL-2005 20:06:45	Bright	66.500	38	20Eps Sgr	1.8360	11000.	133	17832	No
68	GOM_NL__2PRFIN20050728_201000_000000632039_00243_17832_5690.N1	28-JUL-2005 20:10:00	Bright	63.000	155	41Pi Sgr	2.9000	6600.0	126	17832	No
69	GOM_NL__2PRFIN20050728_201805_000000652039_00243_17832_5691.N1	28-JUL-2005 20:18:05	Bright	65.000	126	60Bet Oph	2.7700	4250.0	130	17832	No
70	GOM_NL__2PRFIN20050728_202025_000000662039_00243_17832_5692.N1	28-JUL-2005 20:20:25	Bright	66.000	59	55Alp Oph	2.0800	8900.0	132	17832	No
71	GOM_NL__2PRFIN20050728_203042_000000652039_00243_17832_5693.N1	28-JUL-2005 20:30:42	Bright	64.500	69	33Gam Dra	2.2310	3800.0	129	17832	No
72	GOM_NL__2PRFIN20050728_203433_000000652039_00243_17832_5694.N1	28-JUL-2005 20:34:33	Bright	64.500	119	14Eta Dra	2.7270	4700.0	129	17832	No
73	GOM_NL__2PRFIN20050728_203845_000000792039_00243_17832_5695.N1	28-JUL-2005 20:38:45	Bright	78.500	60	7Bet UMi	2.0810	3950.0	157	17832	No
74	GOM_NL__2PRFIN20050728_210950_000000672039_00243_17832_5696.N1	28-JUL-2005 21:09:50	Dark	67.000	56	53Kap Ori	2.0650	30000.	134	17832	No
75	GOM_NL__2PRFIN20050728_211140_000000652039_00243_17832_5697.N1	28-JUL-2005 21:11:40	Dark	65.000	47	2Bet CMa	1.9760	28000.	130	17832	No
76	GOM_NL__2PRFIN20050728_211502_000000652039_00243_17832_5698.N1	28-JUL-2005 21:15:02	Dark	64.500	177	1Zet CMa	3.0220	26000.	129	17832	No
77	GOM_NL__2PRFIN20050728_213142_000000652039_00244_17833_5689.N1	28-JUL-2005 21:31:42	Dark	65.000	135	Bet Hyi	2.8200	5800.0	130	17833	No
78	GOM_NL__2PRFIN20050728_213946_000000662039_00244_17833_5690.N1	28-JUL-2005 21:39:46	Straylight	65.500	45	Alp Pav	1.9400	26000.	131	17833	No
79	GOM_NL__2PRFIN20050728_214721_000000752039_00244_17833_5691.N1	28-JUL-2005 21:47:21	Bright	74.500	38	20Eps Sgr	1.8360	11000.	149	17833	No
80	GOM_NL__2PRFIN20050728_215036_000000642039_00244_17833_5692.N1	28-JUL-2005 21:50:36	Bright	64.000	155	41Pi Sgr	2.9000	6600.0	128	17833	No
81	GOM_NL__2PRFIN20050728_215841_000000662039_00244_17833_5693.N1	28-JUL-2005 21:58:41	Bright	65.500	126	60Bet Oph	2.7700	4250.0	131	17833	No
82	GOM_NL__2PRFIN20050728_220101_000000672039_00244_17833_5694.N1	28-JUL-2005 22:01:01	Bright	66.500	59	55Alp Oph	2.0800	8900.0	133	17833	No
83	GOM_NL__2PRFIN20050728_221118_000000662039_00244_17833_5695.N1	28-JUL-2005 22:11:18	Bright	65.500	69	33Gam Dra	2.2310	3800.0	131	17833	No
84	GOM_NL__2PRFIN20050728_221509_000000642039_00244_17833_5696.N1	28-JUL-2005 22:15:09	Bright	63.500	119	14Eta Dra	2.7270	4700.0	127	17833	No
85	GOM_NL__2PRFIN20050728_221922_000000612039_00244_17833_5697.N1	28-JUL-2005 22:19:22	Bright	61.000	60	7Bet UMi	2.0810	3950.0	122	17833	No
86	GOM_NL__2PRFIN20050728_225026_000000652039_00244_17833_5698.N1	28-JUL-2005 22:50:26	Dark	64.500	56	53Kap Ori	2.0650	30000.	129	17833	No
87	GOM_NL__2PRFIN20050728_225216_000000642039_00244_17833_5699.N1	28-JUL-2005 22:52:16	Dark	64.000	47	2Bet CMa	1.9760	28000.	128	17833	No
88	GOM_NL__2PRFIN20050728_225538_000000652039_00244_17833_5700.N1	28-JUL-2005 22:55:38	Dark	64.500	177	1Zet CMa	3.0220	26000.	129	17833	No
89	GOM_NL__2PRFIN20050728_231218_000000642039_00245_17834_5514.N1	28-JUL-2005 23:12:18	Dark	64.000	135	Bet Hyi	2.8200	5800.0	128	17834	No
90	GOM_NL__2PRFIN20050728_232022_000000662039_00245_17834_5515.N1	28-JUL-2005 23:20:22	Straylight	66.000	45	Alp Pav	1.9400	26000.	132	17834	No
91	GOM_NL__2PRFIN20050728_232757_000000662039_00245_17834_5516.N1	28-JUL-2005 23:27:57	Bright	66.000	38	20Eps Sgr	1.8360	11000.	132	17834	No
92	GOM_NL__2PRFIN20050728_233112_000000642039_00245_17834_5517.N1	28-JUL-2005 23:31:12	Bright	63.500	155	41Pi Sgr	2.9000	6600.0	127	17834	No
93	GOM_NL__2PRFIN20050728_233917_000000642039_00245_17834_5518.N1	28-JUL-2005 23:39:17	Bright	64.000	126	60Bet Oph	2.7700	4250.0	128	17834	No
94	GOM_NL__2PRFIN20050728_234138_000000672039_00245_17834_5519.N1	28-JUL-2005 23:41:38	Bright	66.500	59	55Alp Oph	2.0800	8900.0	133	17834	No
95	GOM_NL__2PRFIN20050728_235154_000000642039_00245_17834_5520.N1	28-JUL-2005 23:51:54	Bright	64.000	69	33Gam Dra	2.2310	3800.0	128	17834	No
96	GOM_NL__2PRFIN20050728_235546_000000622039_00245_17834_5521.N1	28-JUL-2005 23:55:46	Bright	61.500	119	14Eta Dra	2.7270	4700.0	123	17834	No
97	GOM_NL__2PRFIN20050728_235958_000000602039_00245_17834_5522.N1	28-JUL-2005 23:59:58	Bright	59.500	60	7Bet UMi	2.0810	3950.0	119	17834	No

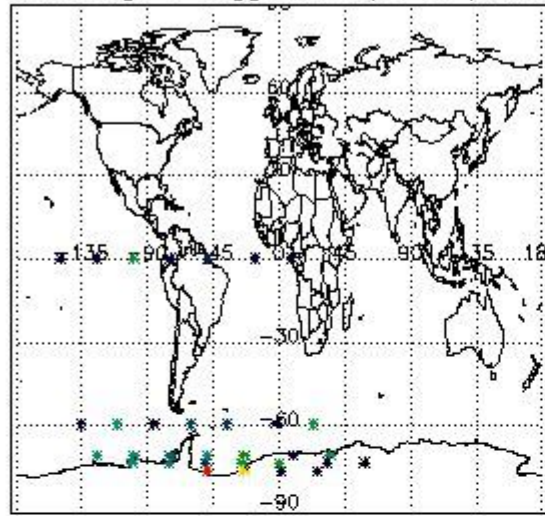
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

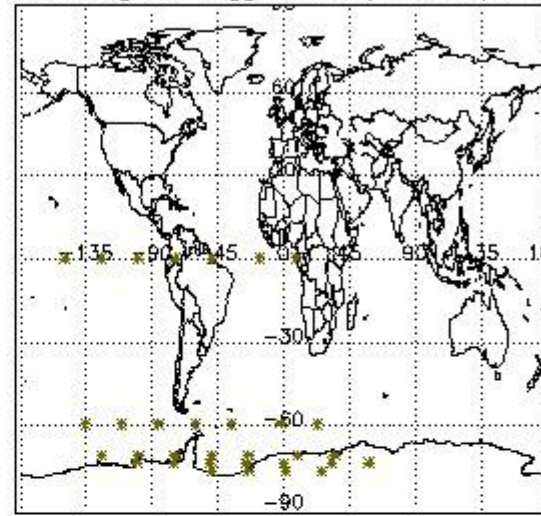


### 3.2 Plot quality information per product (world map)

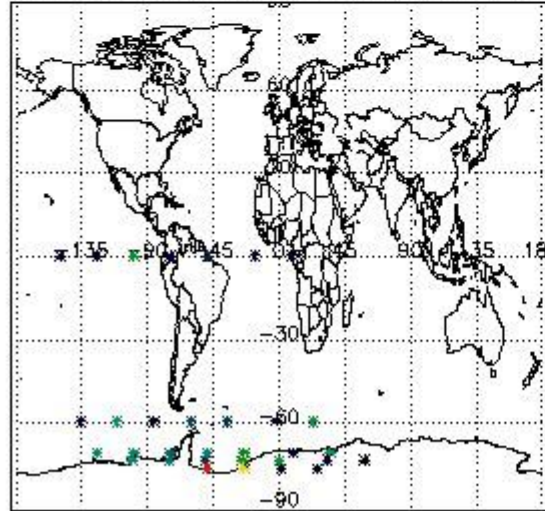
Percentage of flagged data per O3 profile



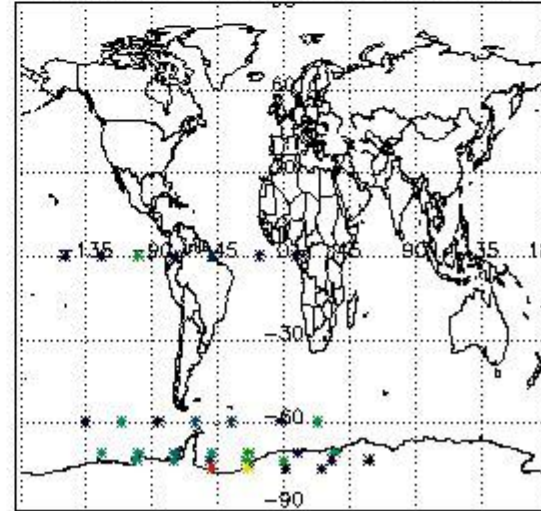
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

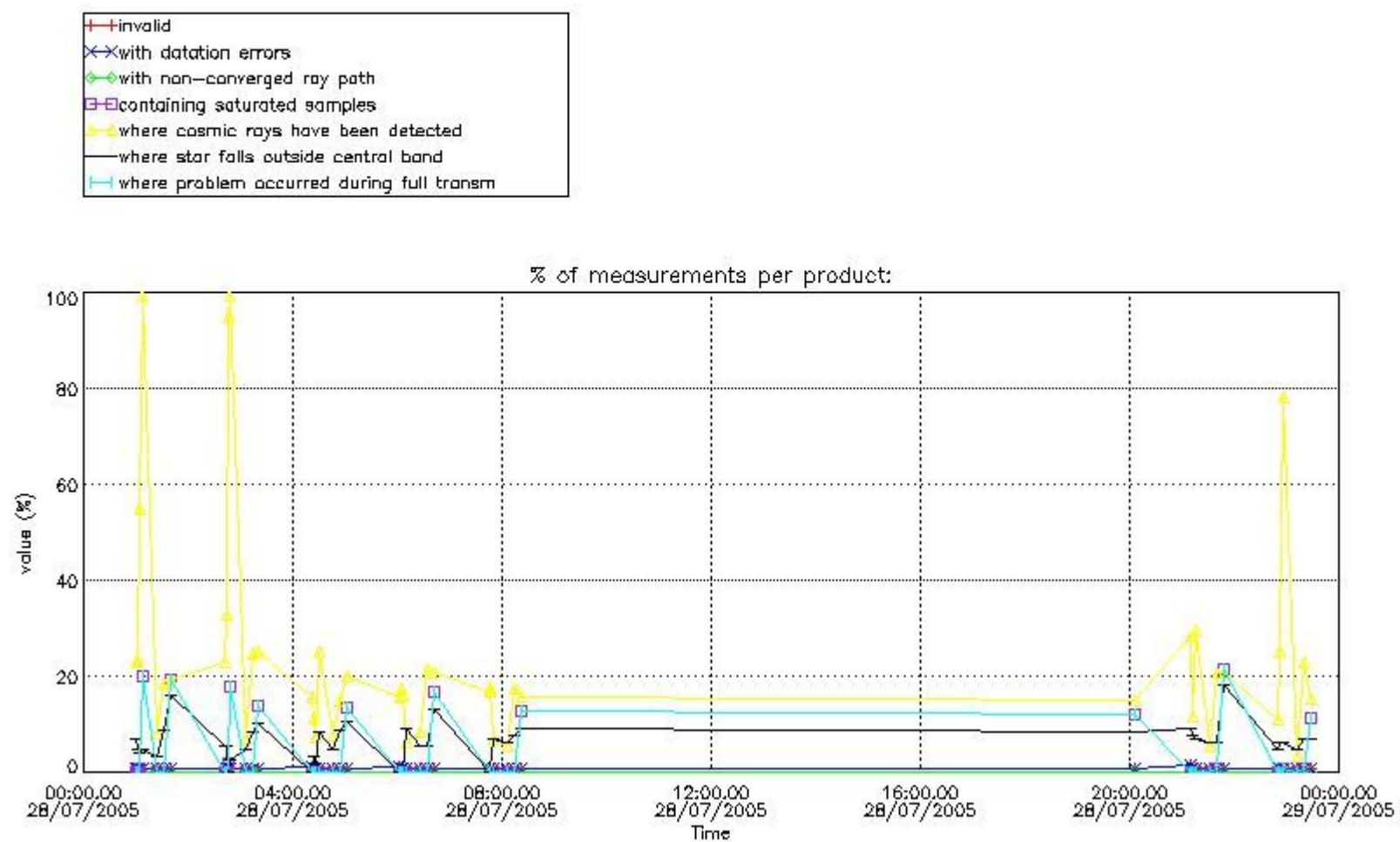


#### 4. Level 1 quality information per product

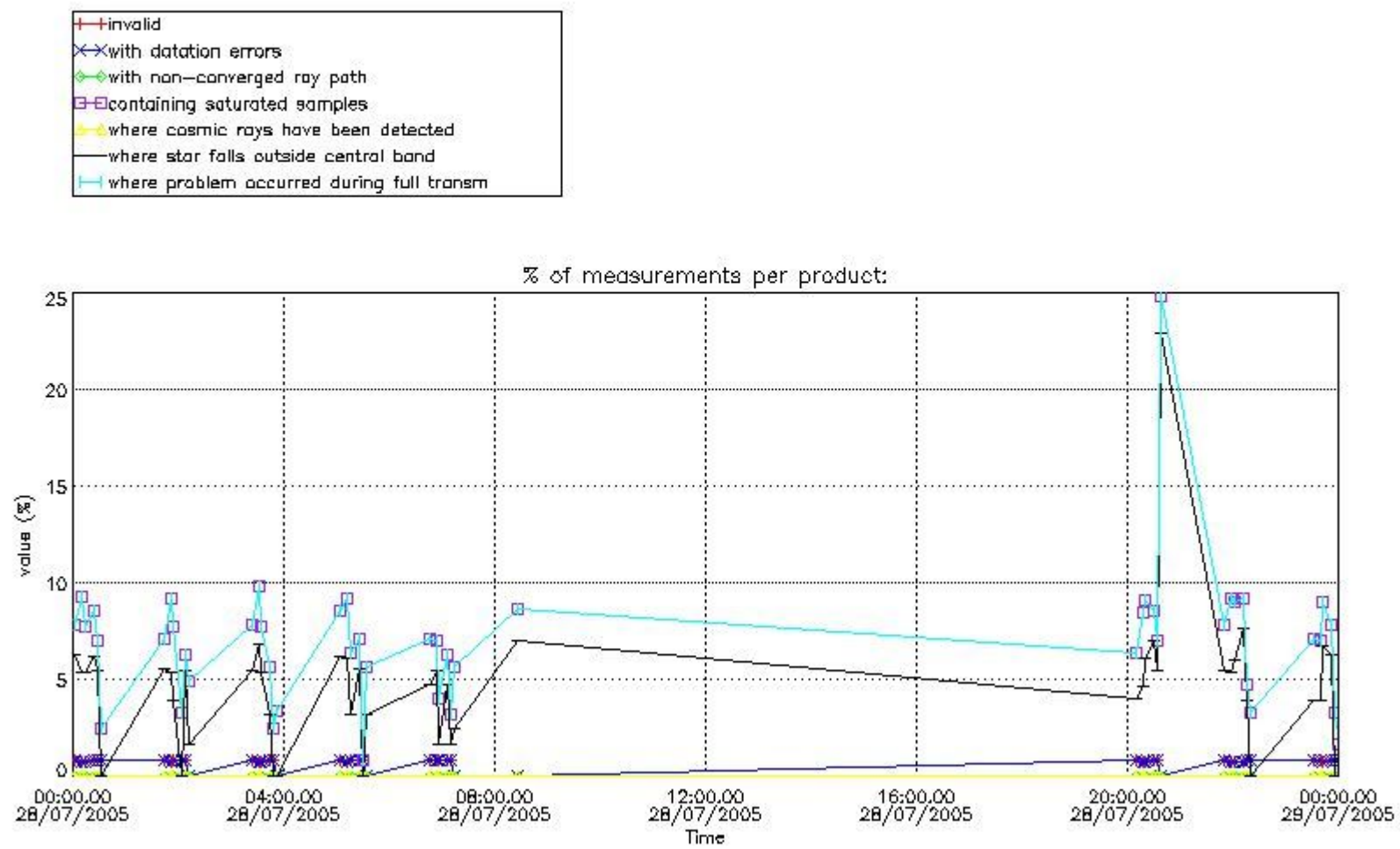
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



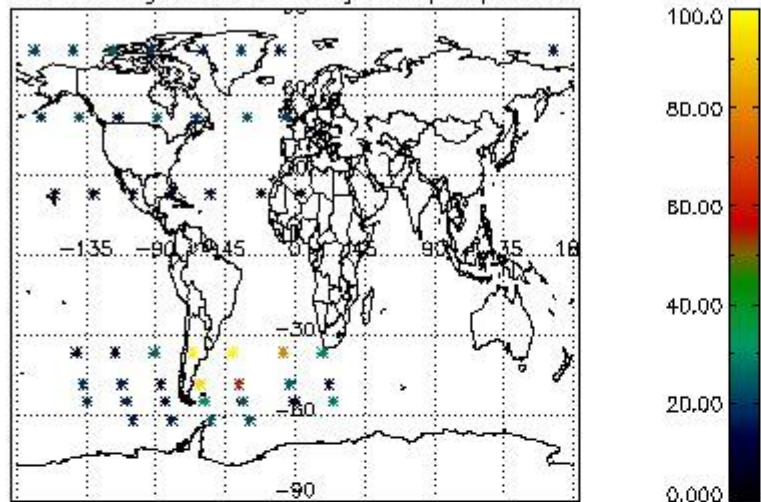
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



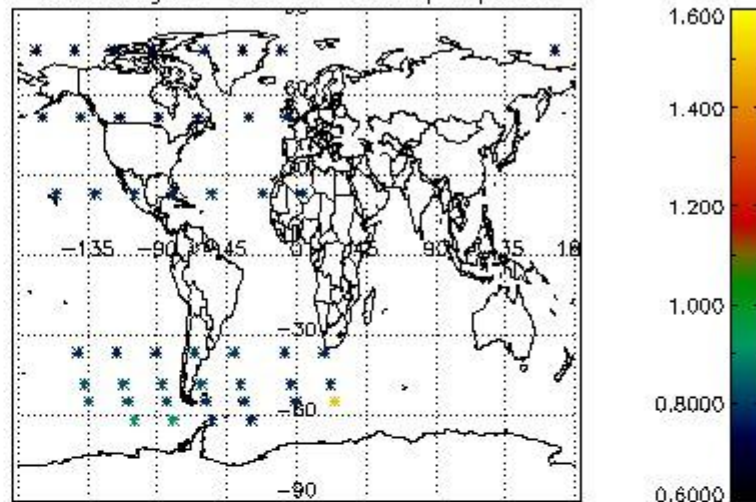
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

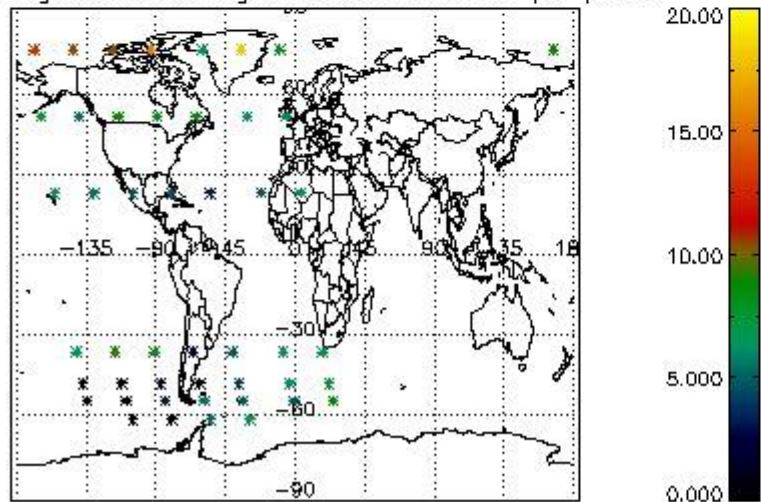
Percentage of cosmic ray hits per profile



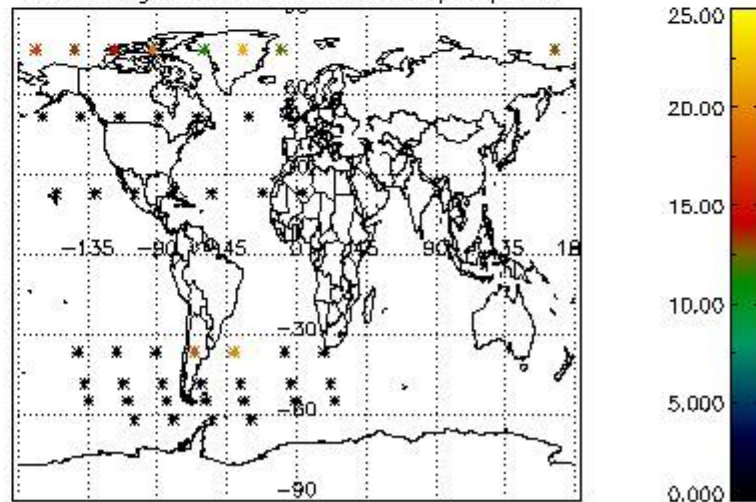
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



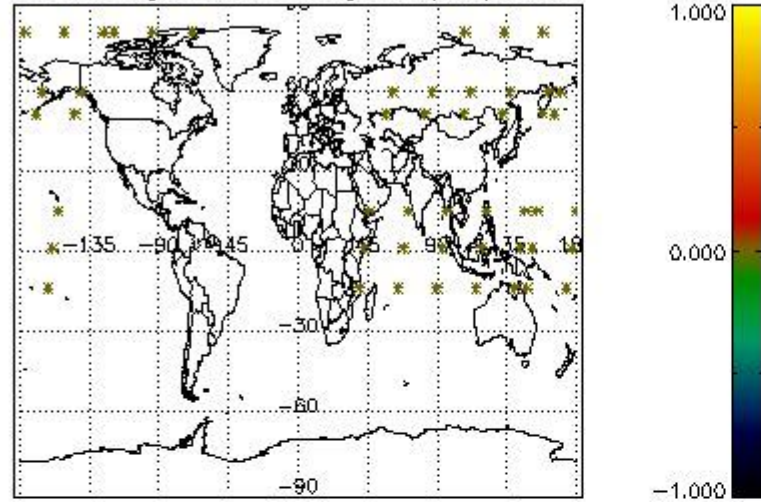
Percentage of saturation errors per profile



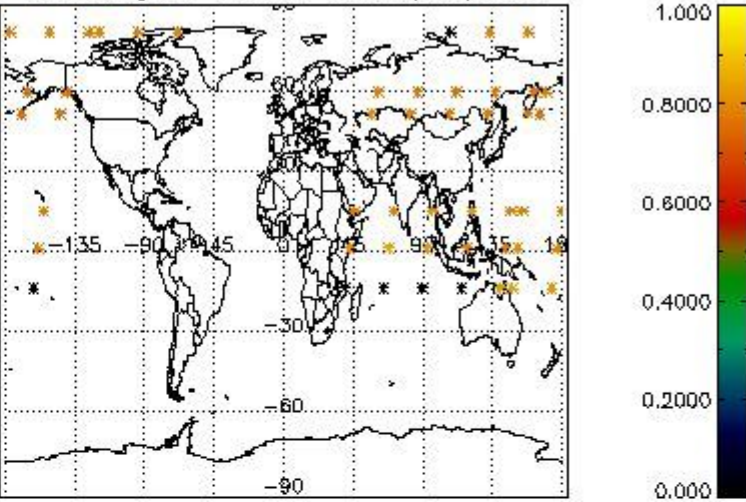
4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



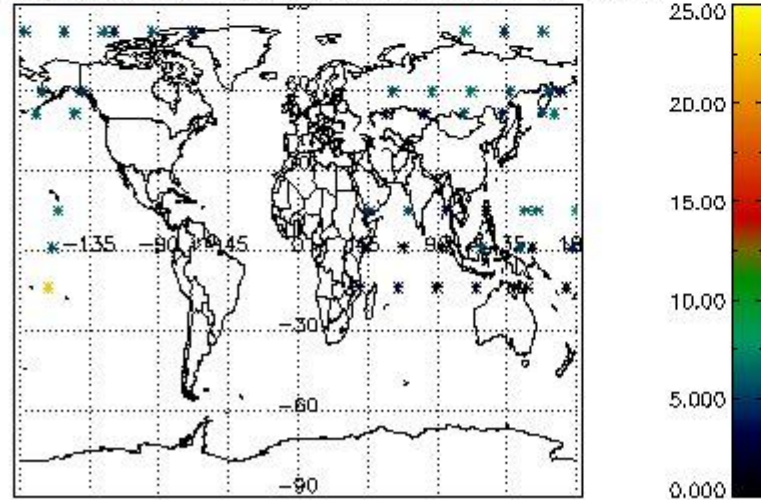
Percentage of cosmic ray hits per profile



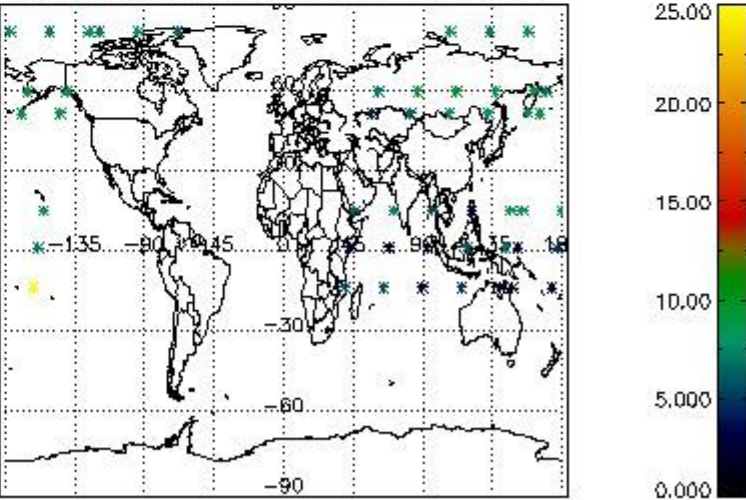
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

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

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

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

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

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

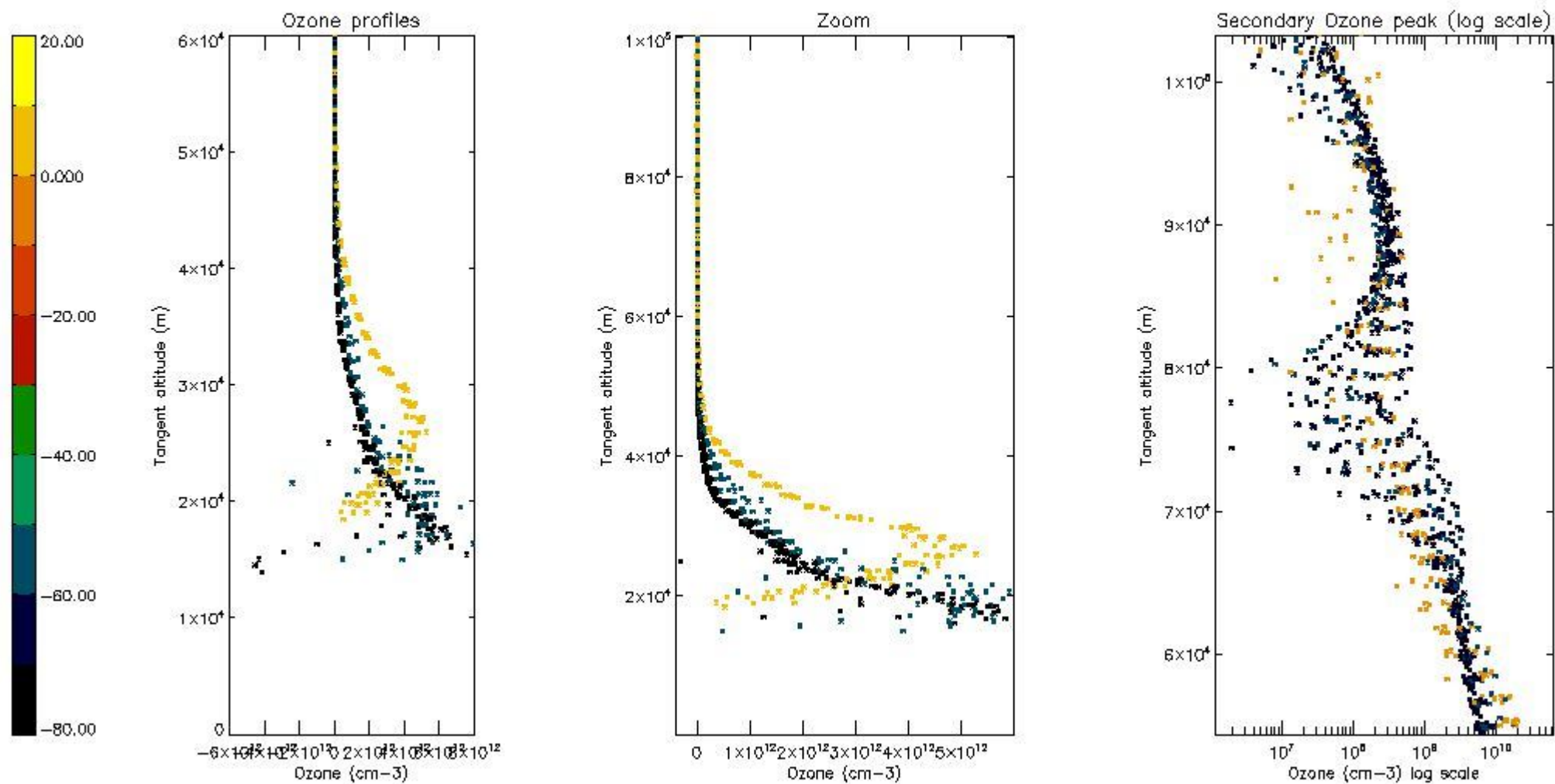
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

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

STD < 10	10
STD < 5	7

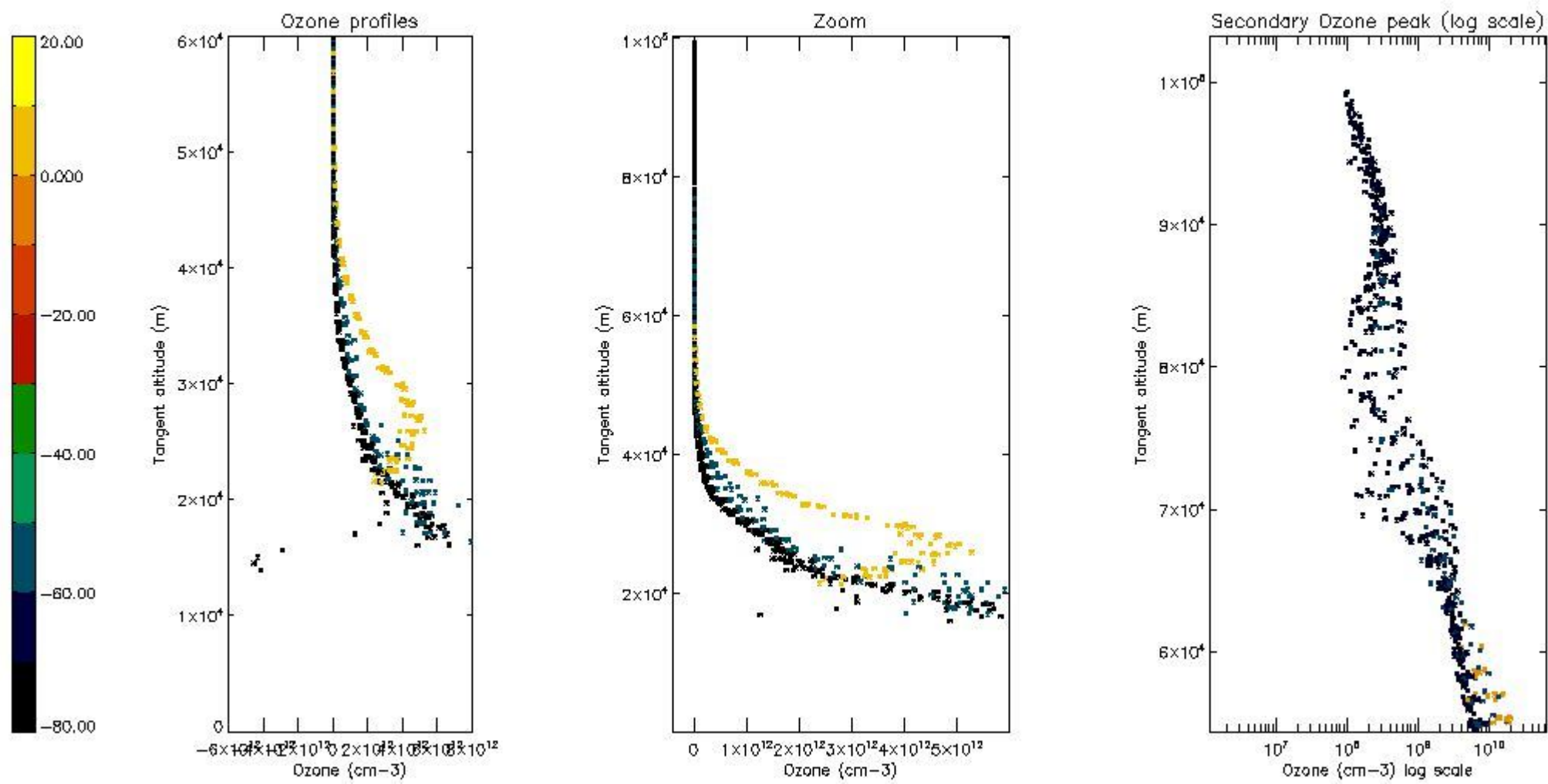
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



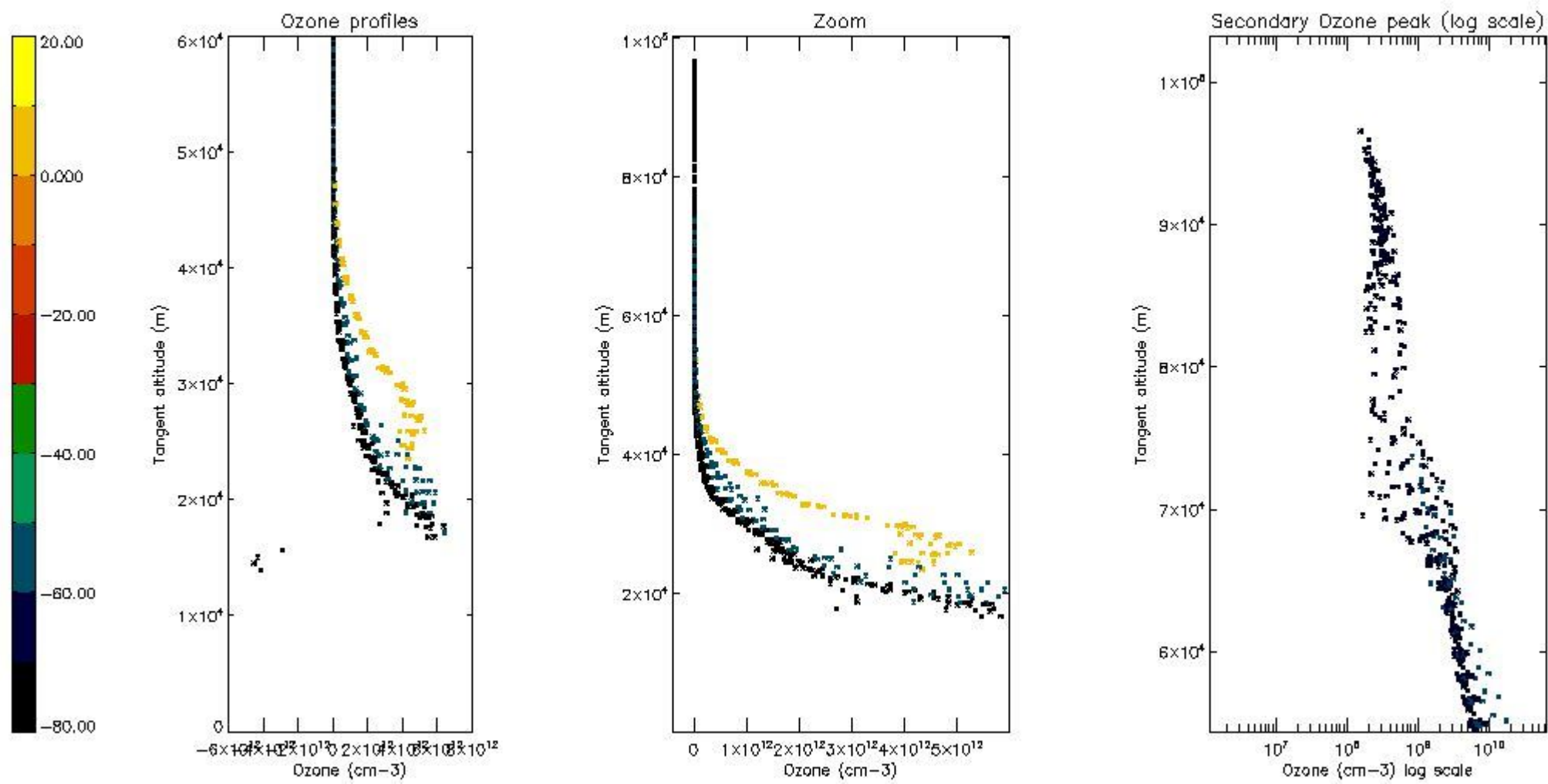
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



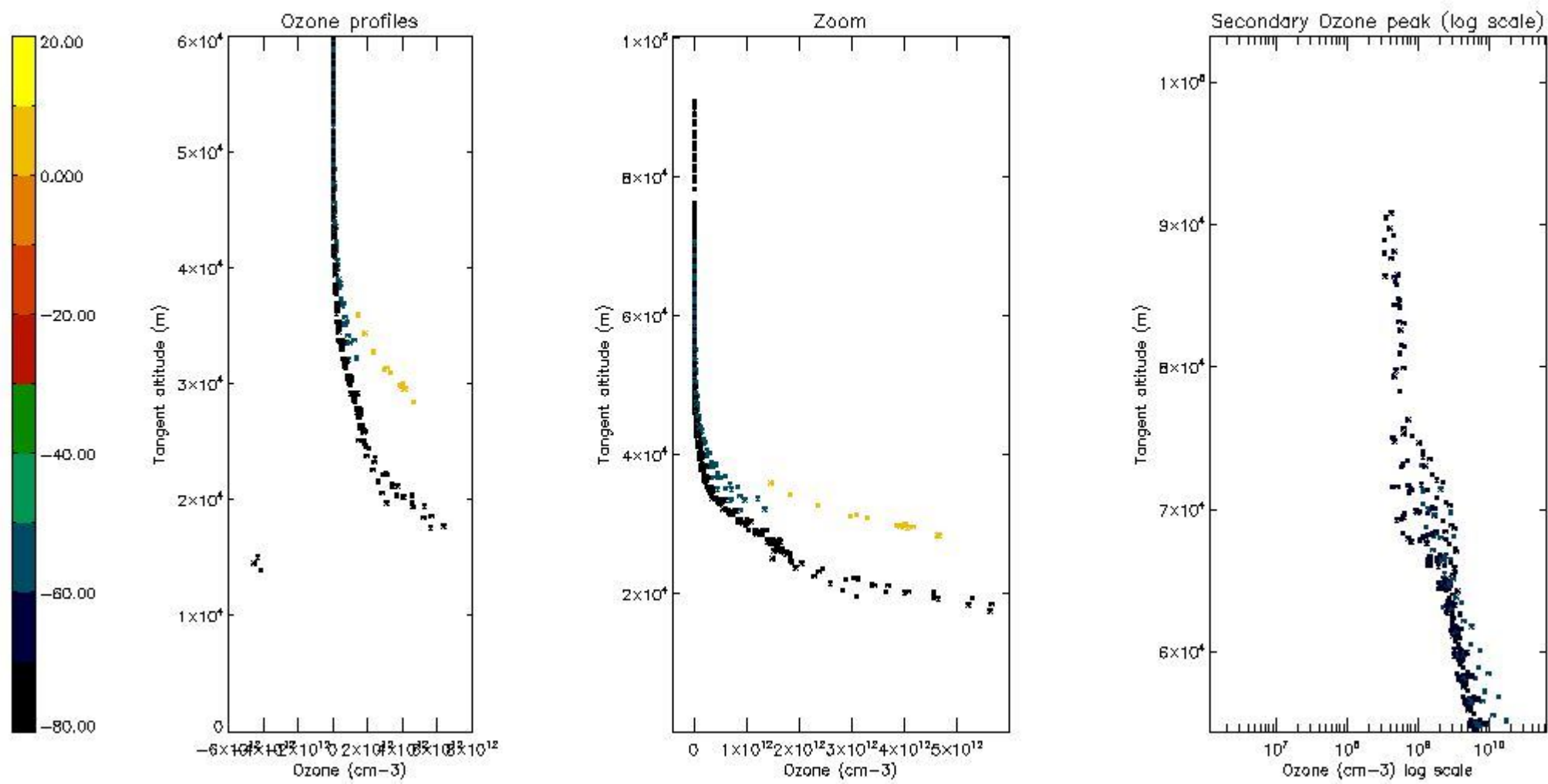
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



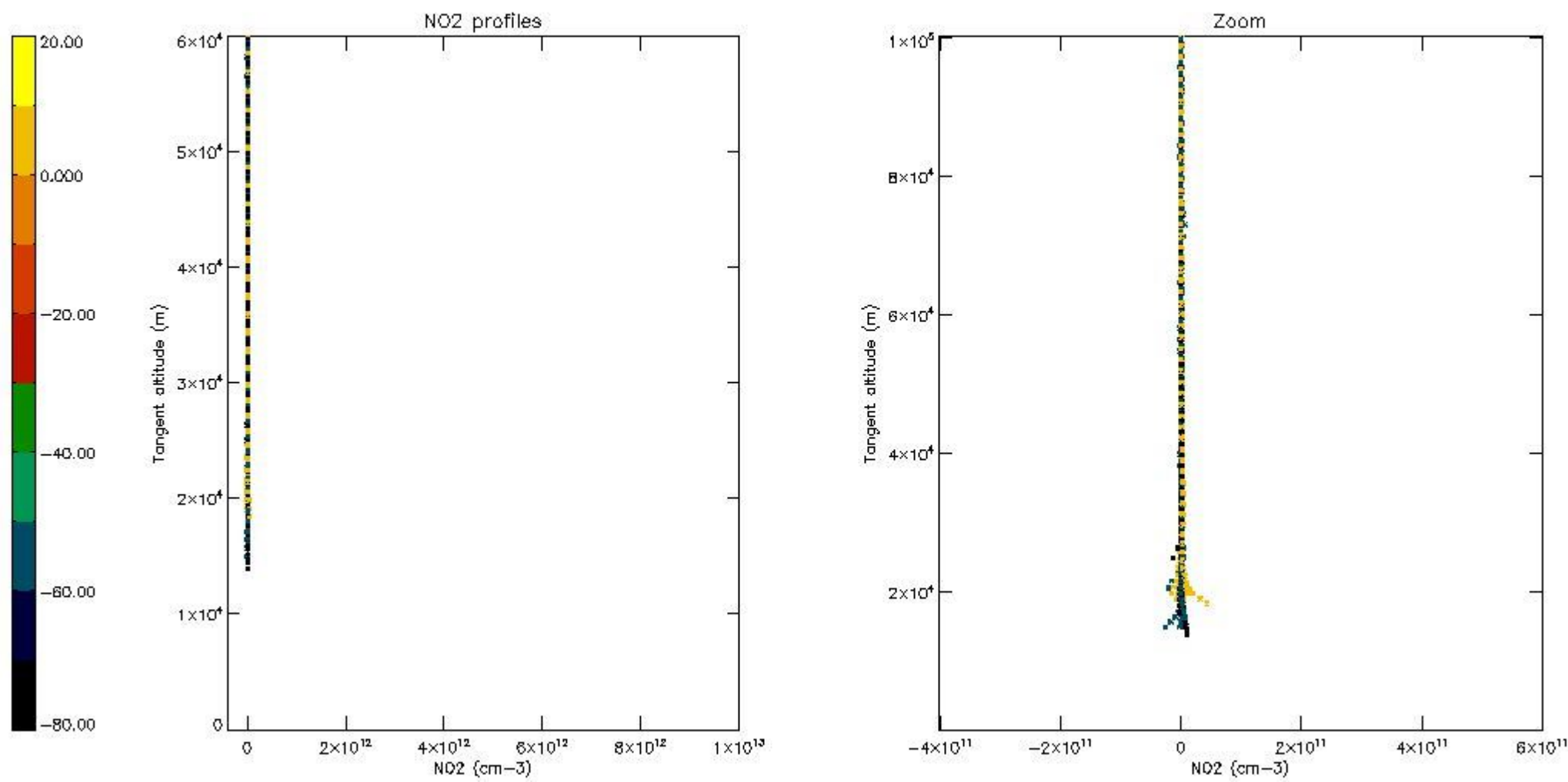
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



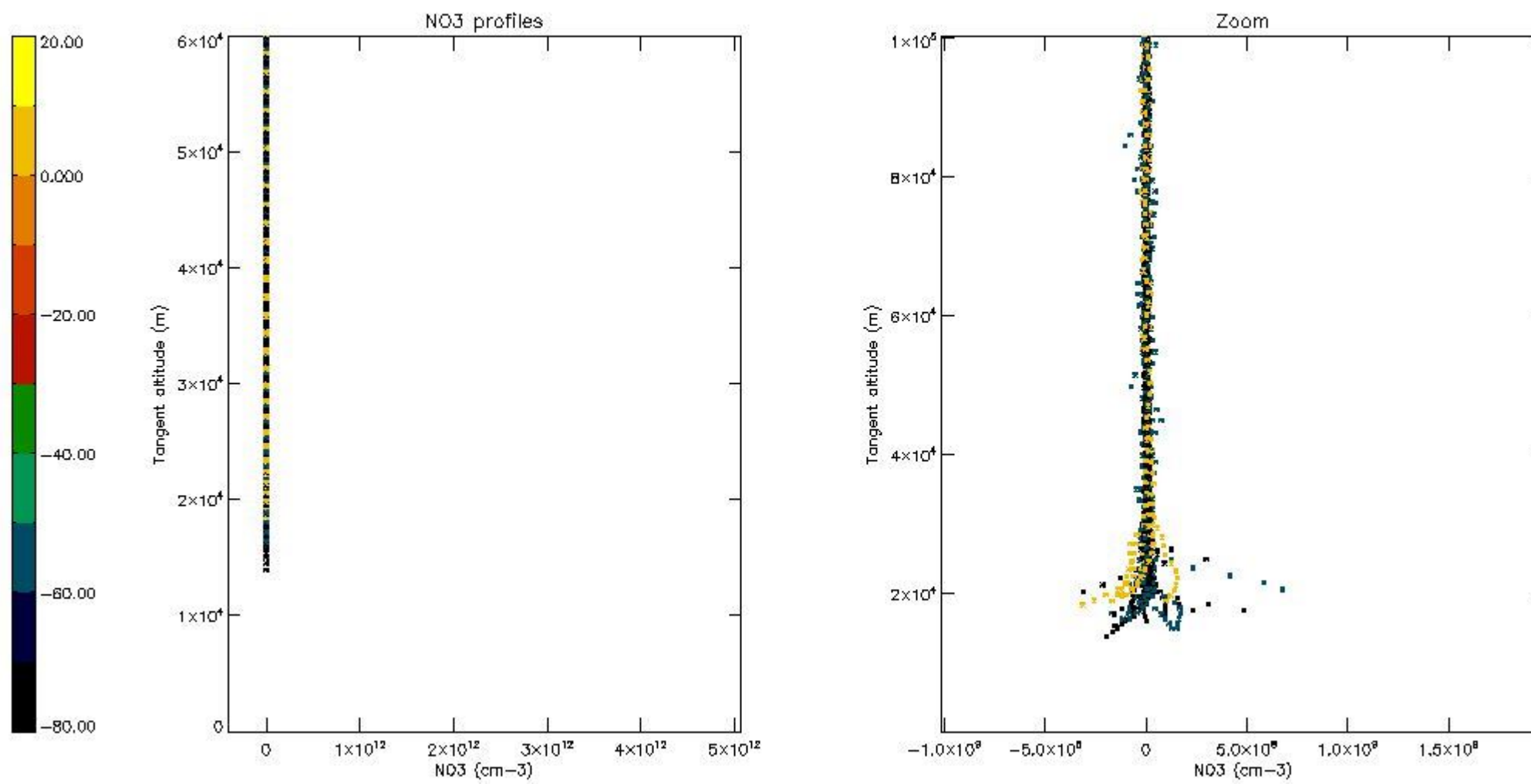
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.



## 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	28-JUL-2005 00:02:47
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-JUL-2005 00:02:47
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-JUL-2005 00:02:47

# GOMOS Level 2 Daily Report

## SUMMARY

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### [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	18APR2013 10:12:03
Data source version	GOMOS/6.01
Start time of products	28-07-2005 (28JUL2005 00:00:00)
Stop time of products	29-07-2005 (29JUL2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	97
Nb of prods with errors	1

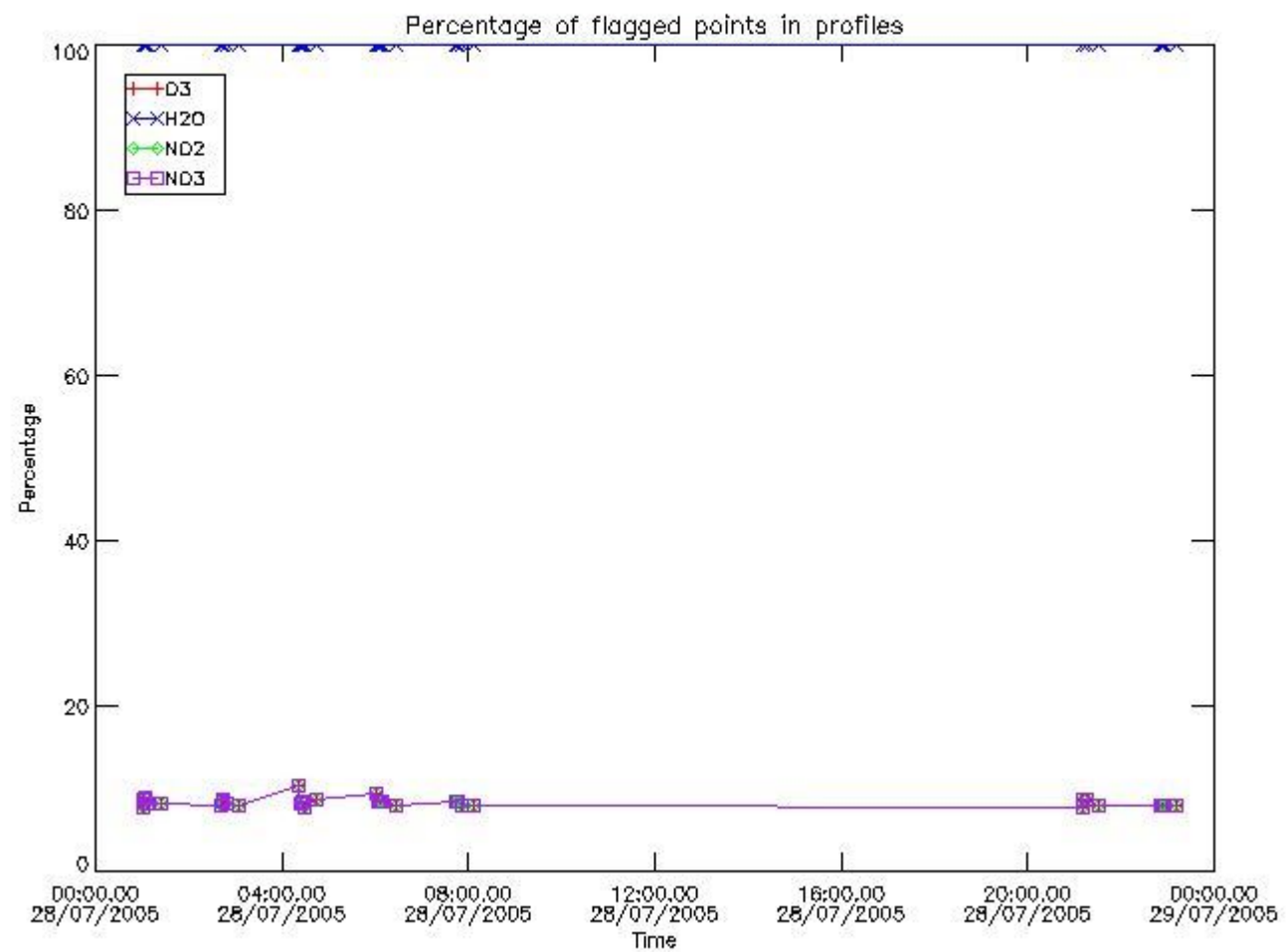
## 2. Summary of processed GOM\_NL\_\_2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20050728_000247_000000642039_00231_17820_5644.N1	28-JUL-2005 00:02:47	Bright	64.000	155	41Pi Sgr	2.9000	6600.0	128	17820	No
2	GOM_NL__2PRFIN20050728_001050_000000652039_00231_17820_5645.N1	28-JUL-2005 00:10:50	Bright	65.000	126	60Bet Oph	2.7700	4250.0	130	17820	No
3	GOM_NL__2PRFIN20050728_001311_000000652039_00231_17820_5646.N1	28-JUL-2005 00:13:11	Bright	65.000	59	55Alp Oph	2.0800	8900.0	130	17820	No
4	GOM_NL__2PRFIN20050728_002329_000000652039_00231_17820_5647.N1	28-JUL-2005 00:23:29	Bright	64.500	69	33Gam Dra	2.2310	3800.0	129	17820	No
5	GOM_NL__2PRFIN20050728_002719_000000652039_00231_17820_5648.N1	28-JUL-2005 00:27:19	Bright	64.500	119	14Eta Dra	2.7270	4700.0	129	17820	No
6	GOM_NL__2PRFIN20050728_003131_000000612039_00231_17820_5649.N1	28-JUL-2005 00:31:31	Bright	60.500	60	7Bet UMi	2.0810	3950.0	121	17820	No
7	GOM_NL__2PRFIN20050728_010035_000000662039_00231_17820_5650.N1	28-JUL-2005 01:00:35	Dark	65.500	33	50Zet Ori	1.7660	30000.	131	17820	No
8	GOM_NL__2PRFIN20050728_010236_000000642039_00231_17820_5651.N1	28-JUL-2005 01:02:36	Dark	64.000	56	53Kap Ori	2.0650	30000.	128	17820	No
9	GOM_NL__2PRFIN20050728_010427_000000632039_00231_17820_5652.N1	28-JUL-2005 01:04:27	Dark	63.000	47	2Bet CMa	1.9760	28000.	126	17820	No
10	GOM_NL__2PRFIN20050728_010749_000000632039_00231_17820_5653.N1	28-JUL-2005 01:07:49	Dark	62.500	177	1Zet CMa	3.0220	26000.	125	17820	No
11	GOM_NL__2PRFIN20050728_012428_000000632039_00232_17821_5644.N1	28-JUL-2005 01:24:28	Dark	63.000	135	Bet Hyi	2.8200	5800.0	126	17821	No
12	GOM_NL__2PRFIN20050728_013232_000000682039_00232_17821_5645.N1	28-JUL-2005 01:32:32	Straylight	68.000	45	Alp Pav	1.9400	26000.	136	17821	No
13	GOM_NL__2PRFIN20050728_014008_000000732039_00232_17821_5646.N1	28-JUL-2005 01:40:08	Bright	72.500	38	20Eps Sgr	1.8360	11000.	145	17821	No
14	GOM_NL__2PRFIN20050728_014323_000000642039_00232_17821_5647.N1	28-JUL-2005 01:43:23	Bright	63.500	155	41Pi Sgr	2.9000	6600.0	127	17821	No
15	GOM_NL__2PRFIN20050728_015126_000000662039_00232_17821_5648.N1	28-JUL-2005 01:51:26	Bright	65.500	126	60Bet Oph	2.7700	4250.0	131	17821	No
16	GOM_NL__2PRFIN20050728_015347_000000652039_00232_17821_5649.N1	28-JUL-2005 01:53:47	Bright	64.500	59	55Alp Oph	2.0800	8900.0	129	17821	No
17	GOM_NL__2PRFIN20050728_020405_000000612039_00232_17821_5650.N1	28-JUL-2005 02:04:05	Bright	60.500	69	33Gam Dra	2.2310	3800.0	121	17821	No
18	GOM_NL__2PRFIN20050728_020755_000000642039_00232_17821_5651.N1	28-JUL-2005 02:07:55	Bright	64.000	119	14Eta Dra	2.7270	4700.0	128	17821	No
19	GOM_NL__2PRFIN20050728_021207_000000622039_00232_17821_5652.N1	28-JUL-2005 02:12:07	Bright	61.500	60	7Bet UMi	2.0810	3950.0	123	17821	No
20	GOM_NL__2PRFIN20050728_024111_000000652039_00232_17821_5653.N1	28-JUL-2005 02:41:11	Dark	65.000	33	50Zet Ori	1.7660	30000.	130	17821	No
21	GOM_NL__2PRFIN20050728_024312_000000642039_00232_17821_5654.N1	28-JUL-2005 02:43:12	Dark	64.000	56	53Kap Ori	2.0650	30000.	128	17821	No
22	GOM_NL__2PRFIN20050728_024503_000000602039_00232_17821_5655.N1	28-JUL-2005 02:45:03	Dark	60.000	47	2Bet CMa	1.9760	28000.	120	17821	No
23	GOM_NL__2PRFIN20050728_024825_000000622039_00232_17821_5656.N1	28-JUL-2005 02:48:25	Dark	62.000	177	1Zet CMa	3.0220	26000.	124	17821	No
24	GOM_NL__2PRFIN20050728_030504_000000642039_00233_17822_5666.N1	28-JUL-2005 03:05:04	Dark	64.000	135	Bet Hyi	2.8200	5800.0	128	17822	No
25	GOM_NL__2PRFIN20050728_031308_000000672039_00233_17822_5667.N1	28-JUL-2005 03:13:08	Straylight	67.000	45	Alp Pav	1.9400	26000.	134	17822	No
26	GOM_NL__2PRFIN20050728_032044_000000682039_00233_17822_5668.N1	28-JUL-2005 03:20:44	Bright	68.000	38	20Eps Sgr	1.8360	11000.	136	17822	No
27	GOM_NL__2PRFIN20050728_032359_000000642039_00233_17822_5669.N1	28-JUL-2005 03:23:59	Bright	64.000	155	41Pi Sgr	2.9000	6600.0	128	17822	No
28	GOM_NL__2PRFIN20050728_033203_000000662039_00233_17822_5670.N1	28-JUL-2005 03:32:03	Bright	66.000	126	60Bet Oph	2.7700	4250.0	132	17822	No
29	GOM_NL__2PRFIN20050728_033423_000000652039_00233_17822_5671.N1	28-JUL-2005 03:34:23	Bright	65.000	59	55Alp Oph	2.0800	8900.0	130	17822	No
30	GOM_NL__2PRFIN20050728_034442_000000622039_00233_17822_5672.N1	28-JUL-2005 03:44:42	Bright	62.000	69	33Gam Dra	2.2310	3800.0	124	17822	No
31	GOM_NL__2PRFIN20050728_034831_000000612039_00233_17822_5673.N1	28-JUL-2005 03:48:31	Bright	61.000	119	14Eta Dra	2.7270	4700.0	122	17822	No
32	GOM_NL__2PRFIN20050728_035244_000000602039_00233_17822_5674.N1	28-JUL-2005 03:52:44	Bright	60.000	60	7Bet UMi	2.0810	3950.0	120	17822	No
33	GOM_NL__2PRFIN20050728_042147_000000542039_00233_17822_5675.N1	28-JUL-2005 04:21:47	Dark	54.000	33	50Zet Ori	1.7660	30000.	108	17822	No
34	GOM_NL__2PRFIN20050728_042348_000000632039_00233_17822_5676.N1	28-JUL-2005 04:23:48	Dark	62.500	56	53Kap Ori	2.0650	30000.	125	17822	No
35	GOM_NL__2PRFIN20050728_042539_000000612039_00233_17822_5677.N1	28-JUL-2005 04:25:39	Dark	61.000	47	2Bet CMa	1.9760	28000.	122	17822	No
36	GOM_NL__2PRFIN20050728_042902_000000662039_00233_17822_5678.N1	28-JUL-2005 04:29:02	Dark	65.500	177	1Zet CMa	3.0220	26000.	131	17822	No
37	GOM_NL__2PRFIN20050728_044540_000000642039_00234_17823_5668.N1	28-JUL-2005 04:45:40	Dark	64.000	135	Bet Hyi	2.8200	5800.0	128	17823	No
38	GOM_NL__2PRFIN20050728_045344_000000682039_00234_17823_5669.N1	28-JUL-2005 04:53:44	Straylight	67.500	45	Alp Pav	1.9400	26000.	135	17823	No
39	GOM_NL__2PRFIN20050728_050120_000000682039_00234_17823_5670.N1	28-JUL-2005 05:01:20	Bright	67.500	38	20Eps Sgr	1.8360	11000.	135	17823	No
40	GOM_NL__2PRFIN20050728_050435_000000652039_00234_17823_5671.N1	28-JUL-2005 05:04:35	Bright	64.500	155	41Pi Sgr	2.9000	6600.0	129	17823	No
41	GOM_NL__2PRFIN20050728_051239_000000662039_00234_17823_5672.N1	28-JUL-2005 05:12:39	Bright	65.500	126	60Bet Oph	2.7700	4250.0	131	17823	No
42	GOM_NL__2PRFIN20050728_051500_000000632039_00234_17823_5673.N1	28-JUL-2005 05:15:00	Bright	63.000	59	55Alp Oph	2.0800	8900.0	126	17823	No

43	GOM_NL__2PRFIN20050728_052518_000000642039_00234_17823_5674.N1	28-JUL-2005 05:25:18	Bright	63.500	69	33Gam Dra	2.2310	3800.0	127	17823	No
44	GOM_NL__2PRFIN20050728_052907_000000602039_00234_17823_5675.N1	28-JUL-2005 05:29:07	Bright	59.500	119	14Eta Dra	2.7270	4700.0	119	17823	No
45	GOM_NL__2PRFIN20050728_053320_000000632039_00234_17823_5676.N1	28-JUL-2005 05:33:20	Bright	62.500	60	7Bet UMi	2.0810	3950.0	125	17823	No
46	GOM_NL__2PRFIN20050728_060223_000000542039_00234_17823_5677.N1	28-JUL-2005 06:02:23	Dark	54.000	33	50Zet Ori	1.7660	30000.	108	17823	No
47	GOM_NL__2PRFIN20050728_060424_000000612039_00234_17823_5678.N1	28-JUL-2005 06:04:24	Dark	60.500	56	53Kap Ori	2.0650	30000.	121	17823	No
48	GOM_NL__2PRFIN20050728_060615_000000602039_00234_17823_5679.N1	28-JUL-2005 06:06:15	Dark	60.000	47	2Bet CMa	1.9760	28000.	120	17823	No
49	GOM_NL__2PRFIN20050728_060938_000000662039_00234_17823_5680.N1	28-JUL-2005 06:09:38	Dark	65.500	177	1Zet CMa	3.0220	26000.	131	17823	No
50	GOM_NL__2PRFIN20050728_062616_000000652039_00235_17824_5670.N1	28-JUL-2005 06:26:16	Dark	64.500	135	Bet Hyi	2.8200	5800.0	129	17824	No
51	GOM_NL__2PRFIN20050728_063420_000000652039_00235_17824_5671.N1	28-JUL-2005 06:34:20	Straylight	65.000	45	Alp Pav	1.9400	26000.	130	17824	No
52	GOM_NL__2PRFIN20050728_064157_000000702039_00235_17824_5672.N1	28-JUL-2005 06:41:57	Bright	69.500	38	20Eps Sgr	1.8360	11000.	139	17824	No
53	GOM_NL__2PRFIN20050728_064511_000000642039_00235_17824_5673.N1	28-JUL-2005 06:45:11	Bright	63.500	155	41Pi Sgr	2.9000	6600.0	127	17824	No
54	GOM_NL__2PRFIN20050728_065315_000000642039_00235_17824_5674.N1	28-JUL-2005 06:53:15	Bright	64.000	126	60Bet Oph	2.7700	4250.0	128	17824	No
55	GOM_NL__2PRFIN20050728_065536_000000622039_00235_17824_5675.N1	28-JUL-2005 06:55:36	Bright	62.000	59	55Alp Oph	2.0800	8900.0	124	17824	No
56	GOM_NL__2PRFIN20050728_070554_000000642039_00235_17824_5676.N1	28-JUL-2005 07:05:54	Bright	63.500	69	33Gam Dra	2.2310	3800.0	127	17824	No
57	GOM_NL__2PRFIN20050728_070944_000000622039_00235_17824_5677.N1	28-JUL-2005 07:09:44	Bright	62.000	119	14Eta Dra	2.7270	4700.0	124	17824	No
58	GOM_NL__2PRFIN20050728_071356_000000622039_00235_17824_5678.N1	28-JUL-2005 07:13:56	Bright	62.000	60	7Bet UMi	2.0810	3950.0	124	17824	No
59	GOM_NL__2PRFIN20050728_074501_000000602039_00235_17824_5679.N1	28-JUL-2005 07:45:01	Dark	60.000	56	53Kap Ori	2.0650	30000.	120	17824	No
60	GOM_NL__2PRFIN20050728_074652_000000602039_00235_17824_5680.N1	28-JUL-2005 07:46:52	Dark	60.000	47	2Bet CMa	1.9760	28000.	120	17824	No
61	GOM_NL__2PRFIN20050728_075014_000000642039_00235_17824_5681.N1	28-JUL-2005 07:50:14	Dark	64.000	177	1Zet CMa	3.0220	26000.	128	17824	No
62	GOM_NL__2PRFIN20050728_080652_000000652039_00236_17825_5671.N1	28-JUL-2005 08:06:52	Dark	64.500	135	Bet Hyi	2.8200	5800.0	129	17825	No
63	GOM_NL__2PRFIN20050728_081457_000000672039_00236_17825_5672.N1	28-JUL-2005 08:14:57	Straylight	66.500	45	Alp Pav	1.9400	26000.	133	17825	No
64	GOM_NL__2PRFIN20050728_082233_000000672039_00236_17825_5673.N1	28-JUL-2005 08:22:33	Bright	66.500	38	20Eps Sgr	1.8360	11000.	133	17825	No
65	GOM_NL__2PRFIN20050728_082548_000000642039_00236_17825_5674.N1	28-JUL-2005 08:25:48	Bright	64.000	155	41Pi Sgr	2.9000	6600.0	128	17825	No
66	GOM_NL__2PRFIN20050728_195910_000000652039_00243_17832_5688.N1	28-JUL-2005 19:59:10	Dark	65.000	45	Alp Pav	1.9400	26000.	130	17832	Yes
67	GOM_NL__2PRFIN20050728_200645_000000672039_00243_17832_5689.N1	28-JUL-2005 20:06:45	Bright	66.500	38	20Eps Sgr	1.8360	11000.	133	17832	No
68	GOM_NL__2PRFIN20050728_201000_000000632039_00243_17832_5690.N1	28-JUL-2005 20:10:00	Bright	63.000	155	41Pi Sgr	2.9000	6600.0	126	17832	No
69	GOM_NL__2PRFIN20050728_201805_000000652039_00243_17832_5691.N1	28-JUL-2005 20:18:05	Bright	65.000	126	60Bet Oph	2.7700	4250.0	130	17832	No
70	GOM_NL__2PRFIN20050728_202025_000000662039_00243_17832_5692.N1	28-JUL-2005 20:20:25	Bright	66.000	59	55Alp Oph	2.0800	8900.0	132	17832	No
71	GOM_NL__2PRFIN20050728_203042_000000652039_00243_17832_5693.N1	28-JUL-2005 20:30:42	Bright	64.500	69	33Gam Dra	2.2310	3800.0	129	17832	No
72	GOM_NL__2PRFIN20050728_203433_000000652039_00243_17832_5694.N1	28-JUL-2005 20:34:33	Bright	64.500	119	14Eta Dra	2.7270	4700.0	129	17832	No
73	GOM_NL__2PRFIN20050728_203845_000000792039_00243_17832_5695.N1	28-JUL-2005 20:38:45	Bright	78.500	60	7Bet UMi	2.0810	3950.0	157	17832	No
74	GOM_NL__2PRFIN20050728_210950_000000672039_00243_17832_5696.N1	28-JUL-2005 21:09:50	Dark	67.000	56	53Kap Ori	2.0650	30000.	134	17832	No
75	GOM_NL__2PRFIN20050728_211140_000000652039_00243_17832_5697.N1	28-JUL-2005 21:11:40	Dark	65.000	47	2Bet CMa	1.9760	28000.	130	17832	No
76	GOM_NL__2PRFIN20050728_211502_000000652039_00243_17832_5698.N1	28-JUL-2005 21:15:02	Dark	64.500	177	1Zet CMa	3.0220	26000.	129	17832	No
77	GOM_NL__2PRFIN20050728_213142_000000652039_00244_17833_5689.N1	28-JUL-2005 21:31:42	Dark	65.000	135	Bet Hyi	2.8200	5800.0	130	17833	No
78	GOM_NL__2PRFIN20050728_213946_000000662039_00244_17833_5690.N1	28-JUL-2005 21:39:46	Straylight	65.500	45	Alp Pav	1.9400	26000.	131	17833	No
79	GOM_NL__2PRFIN20050728_214721_000000752039_00244_17833_5691.N1	28-JUL-2005 21:47:21	Bright	74.500	38	20Eps Sgr	1.8360	11000.	149	17833	No
80	GOM_NL__2PRFIN20050728_215036_000000642039_00244_17833_5692.N1	28-JUL-2005 21:50:36	Bright	64.000	155	41Pi Sgr	2.9000	6600.0	128	17833	No
81	GOM_NL__2PRFIN20050728_215841_000000662039_00244_17833_5693.N1	28-JUL-2005 21:58:41	Bright	65.500	126	60Bet Oph	2.7700	4250.0	131	17833	No
82	GOM_NL__2PRFIN20050728_220101_000000672039_00244_17833_5694.N1	28-JUL-2005 22:01:01	Bright	66.500	59	55Alp Oph	2.0800	8900.0	133	17833	No
83	GOM_NL__2PRFIN20050728_221118_000000662039_00244_17833_5695.N1	28-JUL-2005 22:11:18	Bright	65.500	69	33Gam Dra	2.2310	3800.0	131	17833	No
84	GOM_NL__2PRFIN20050728_221509_000000642039_00244_17833_5696.N1	28-JUL-2005 22:15:09	Bright	63.500	119	14Eta Dra	2.7270	4700.0	127	17833	No
85	GOM_NL__2PRFIN20050728_221922_000000612039_00244_17833_5697.N1	28-JUL-2005 22:19:22	Bright	61.000	60	7Bet UMi	2.0810	3950.0	122	17833	No
86	GOM_NL__2PRFIN20050728_225026_000000652039_00244_17833_5698.N1	28-JUL-2005 22:50:26	Dark	64.500	56	53Kap Ori	2.0650	30000.	129	17833	No
87	GOM_NL__2PRFIN20050728_225216_000000642039_00244_17833_5699.N1	28-JUL-2005 22:52:16	Dark	64.000	47	2Bet CMa	1.9760	28000.	128	17833	No
88	GOM_NL__2PRFIN20050728_225538_000000652039_00244_17833_5700.N1	28-JUL-2005 22:55:38	Dark	64.500	177	1Zet CMa	3.0220	26000.	129	17833	No
89	GOM_NL__2PRFIN20050728_231218_000000642039_00245_17834_5514.N1	28-JUL-2005 23:12:18	Dark	64.000	135	Bet Hyi	2.8200	5800.0	128	17834	No
90	GOM_NL__2PRFIN20050728_232022_000000662039_00245_17834_5515.N1	28-JUL-2005 23:20:22	Straylight	66.000	45	Alp Pav	1.9400	26000.	132	17834	No
91	GOM_NL__2PRFIN20050728_232757_000000662039_00245_17834_5516.N1	28-JUL-2005 23:27:57	Bright	66.000	38	20Eps Sgr	1.8360	11000.	132	17834	No
92	GOM_NL__2PRFIN20050728_233112_000000642039_00245_17834_5517.N1	28-JUL-2005 23:31:12	Bright	63.500	155	41Pi Sgr	2.9000	6600.0	127	17834	No
93	GOM_NL__2PRFIN20050728_233917_000000642039_00245_17834_5518.N1	28-JUL-2005 23:39:17	Bright	64.000	126	60Bet Oph	2.7700	4250.0	128	17834	No
94	GOM_NL__2PRFIN20050728_234138_000000672039_00245_17834_5519.N1	28-JUL-2005 23:41:38	Bright	66.500	59	55Alp Oph	2.0800	8900.0	133	17834	No
95	GOM_NL__2PRFIN20050728_235154_000000642039_00245_17834_5520.N1	28-JUL-2005 23:51:54	Bright	64.000	69	33Gam Dra	2.2310	3800.0	128	17834	No
96	GOM_NL__2PRFIN20050728_235546_000000622039_00245_17834_5521.N1	28-JUL-2005 23:55:46	Bright	61.500	119	14Eta Dra	2.7270	4700.0	123	17834	No
97	GOM_NL__2PRFIN20050728_235958_000000602039_00245_17834_5522.N1	28-JUL-2005 23:59:58	Bright	59.500	60	7Bet UMi	2.0810	3950.0	119	17834	No

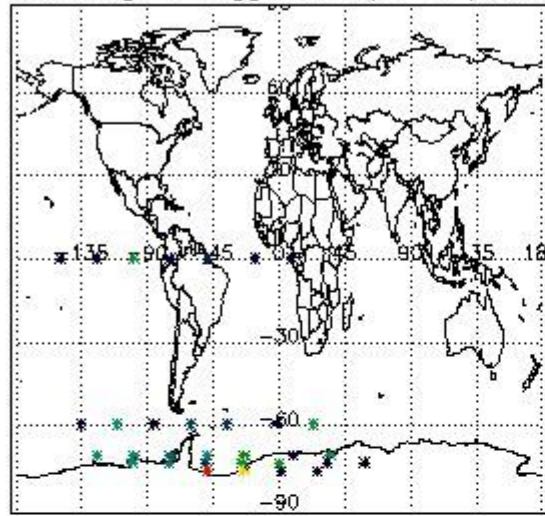
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

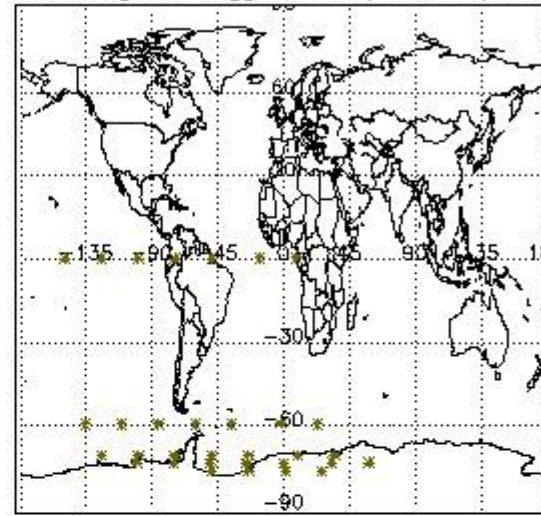


### 3.2 Plot quality information per product (world map)

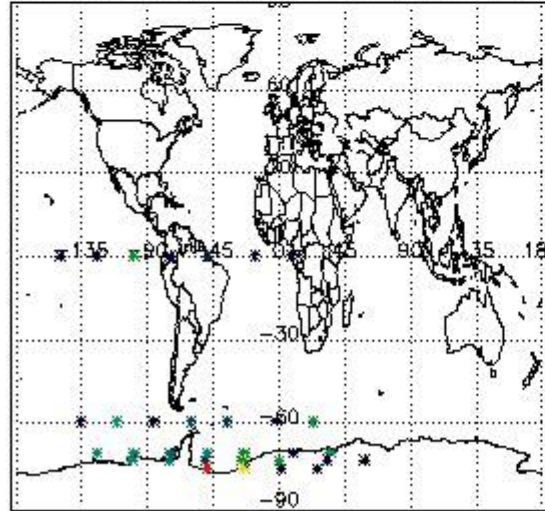
Percentage of flagged data per O3 profile



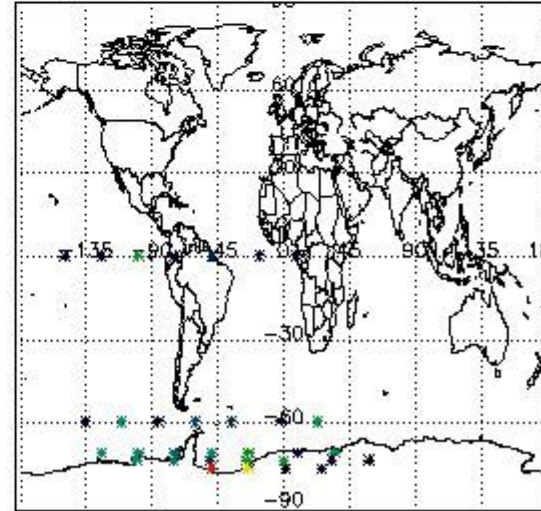
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

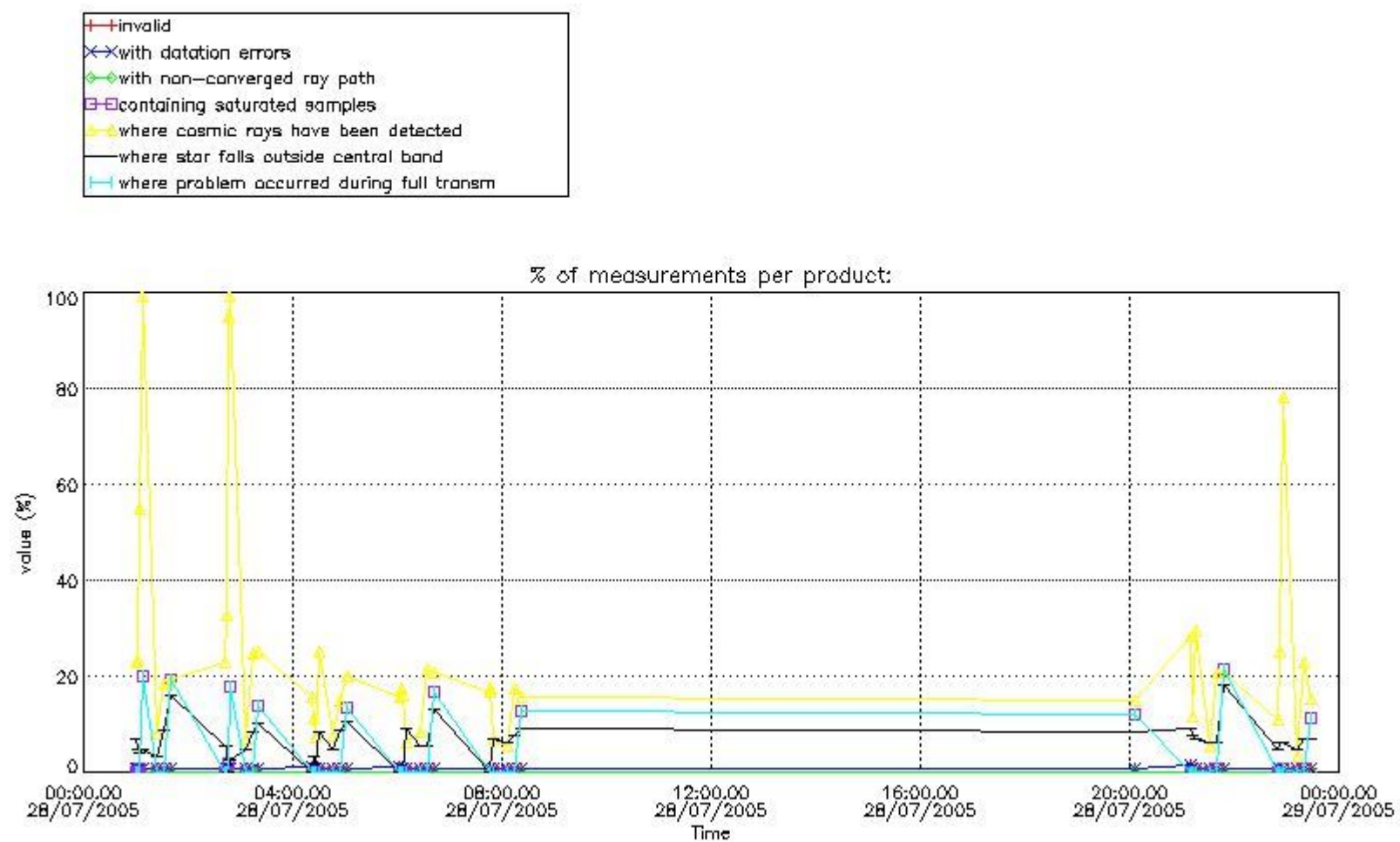


#### 4. Level 1 quality information per product

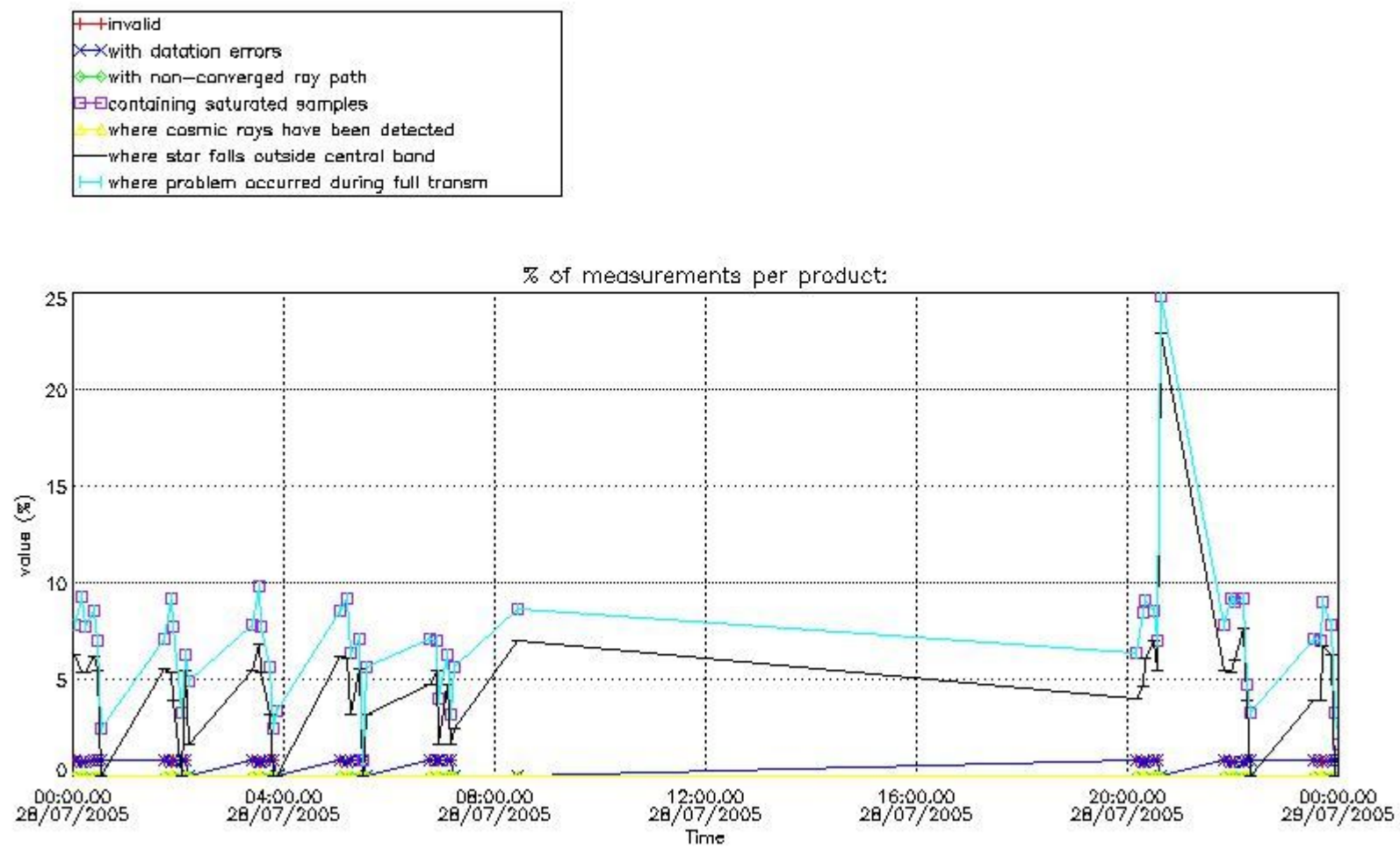
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



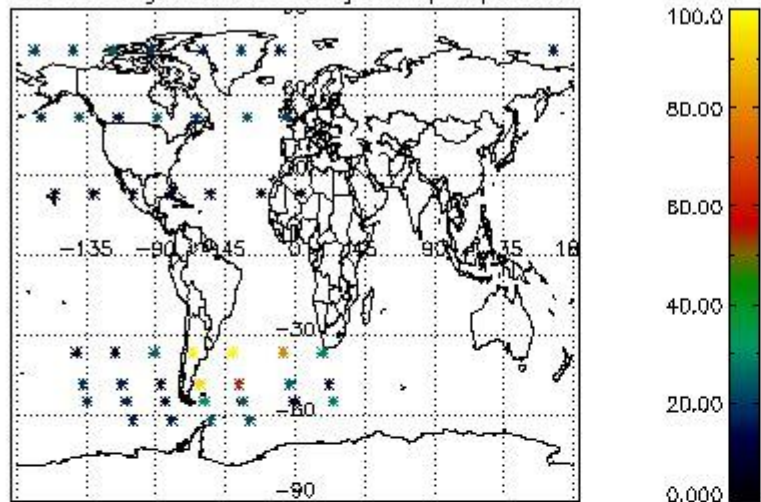
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



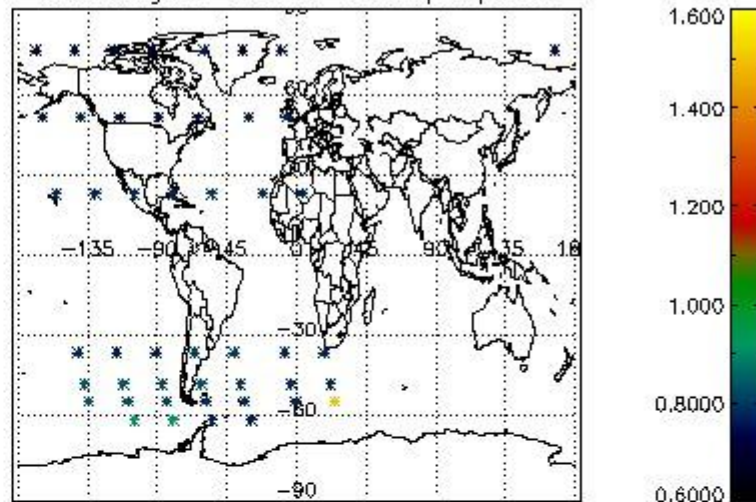
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

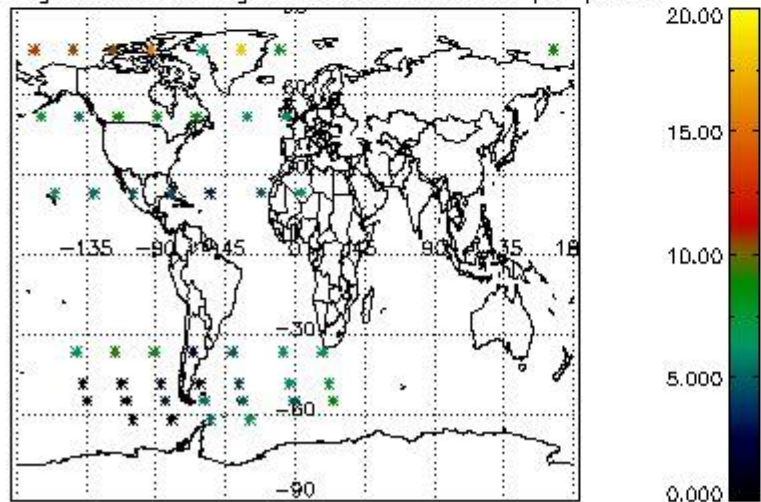
Percentage of cosmic ray hits per profile



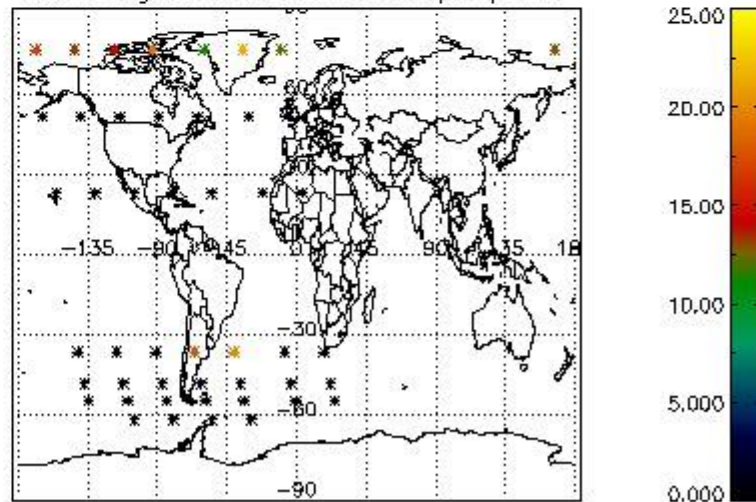
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

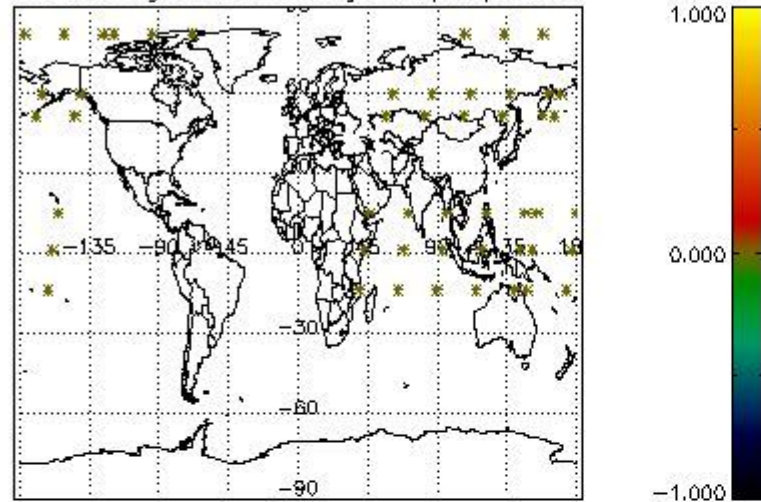


Percentage of saturation errors per profile

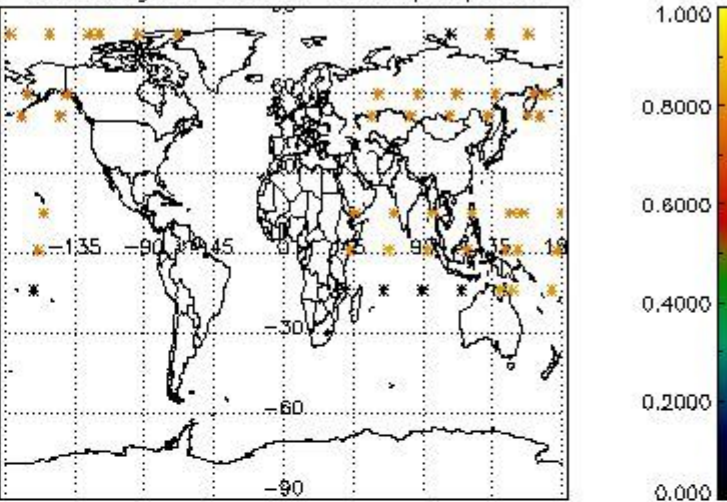


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

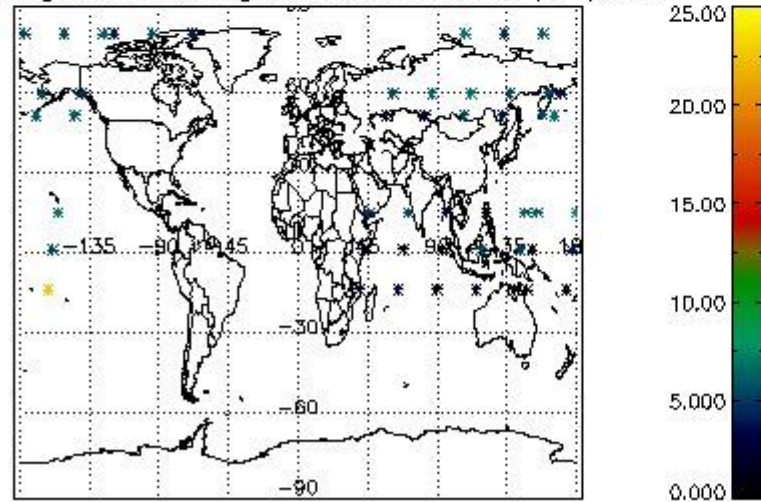
Percentage of cosmic ray hits per profile



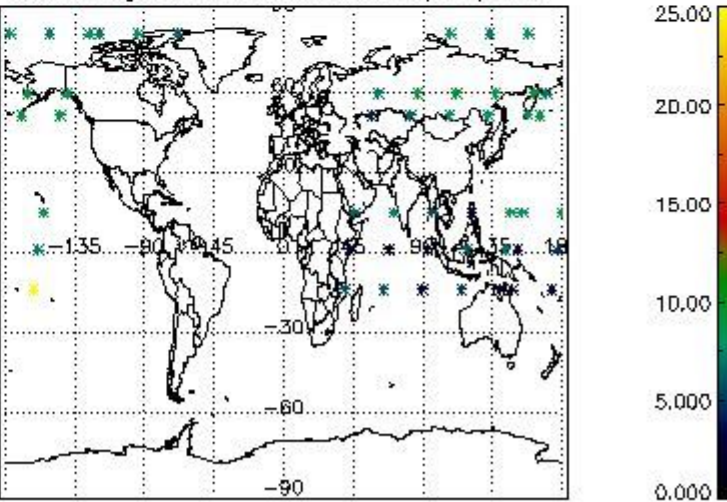
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



## 5. Trace gas profiles

### 5.1 Ozone statistics based on quality of products

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

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

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

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

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

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

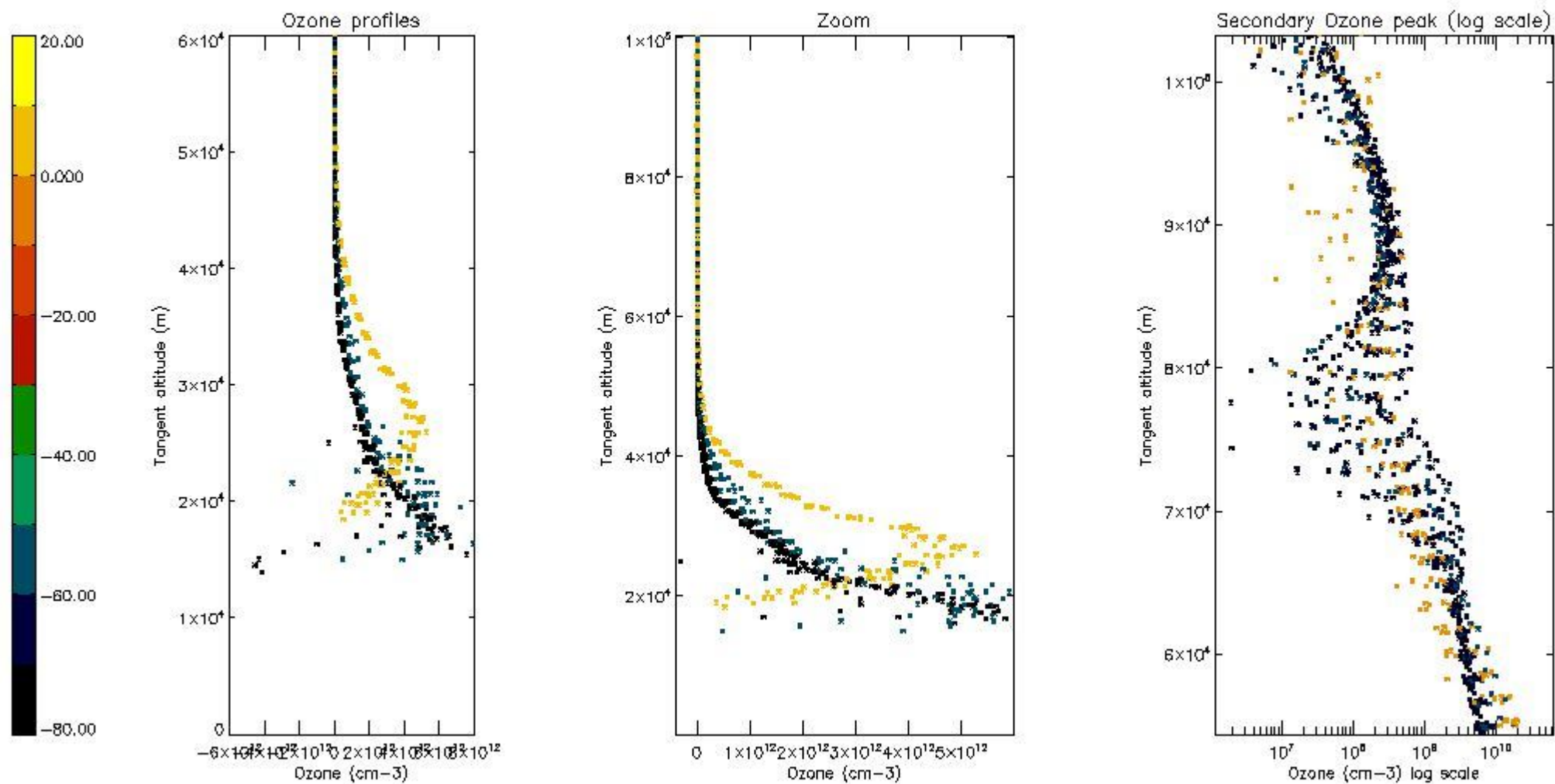
Criteria	% of total production
All STD	33
STD < 20	12



STD < 10	10
STD < 5	7

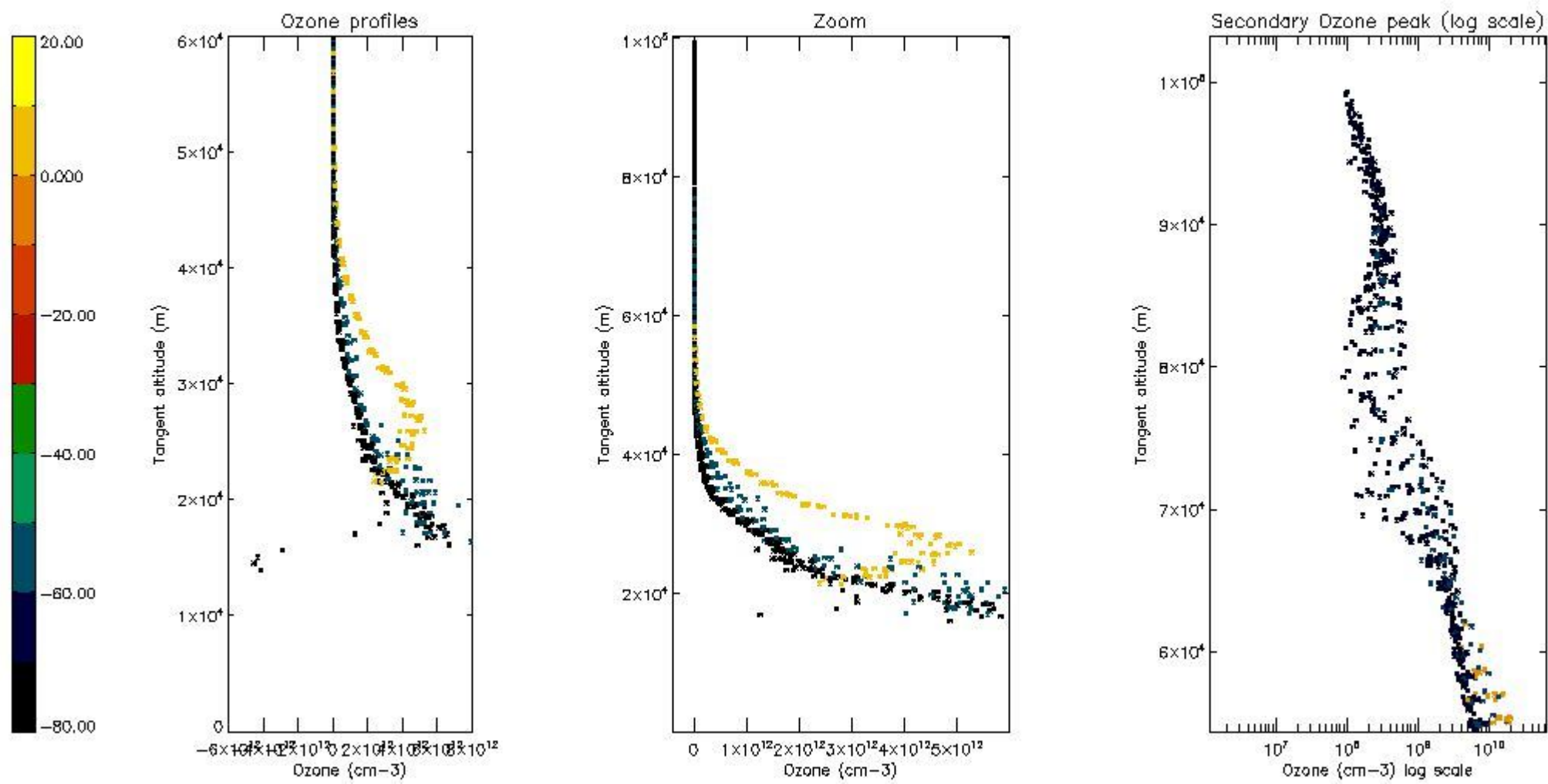
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



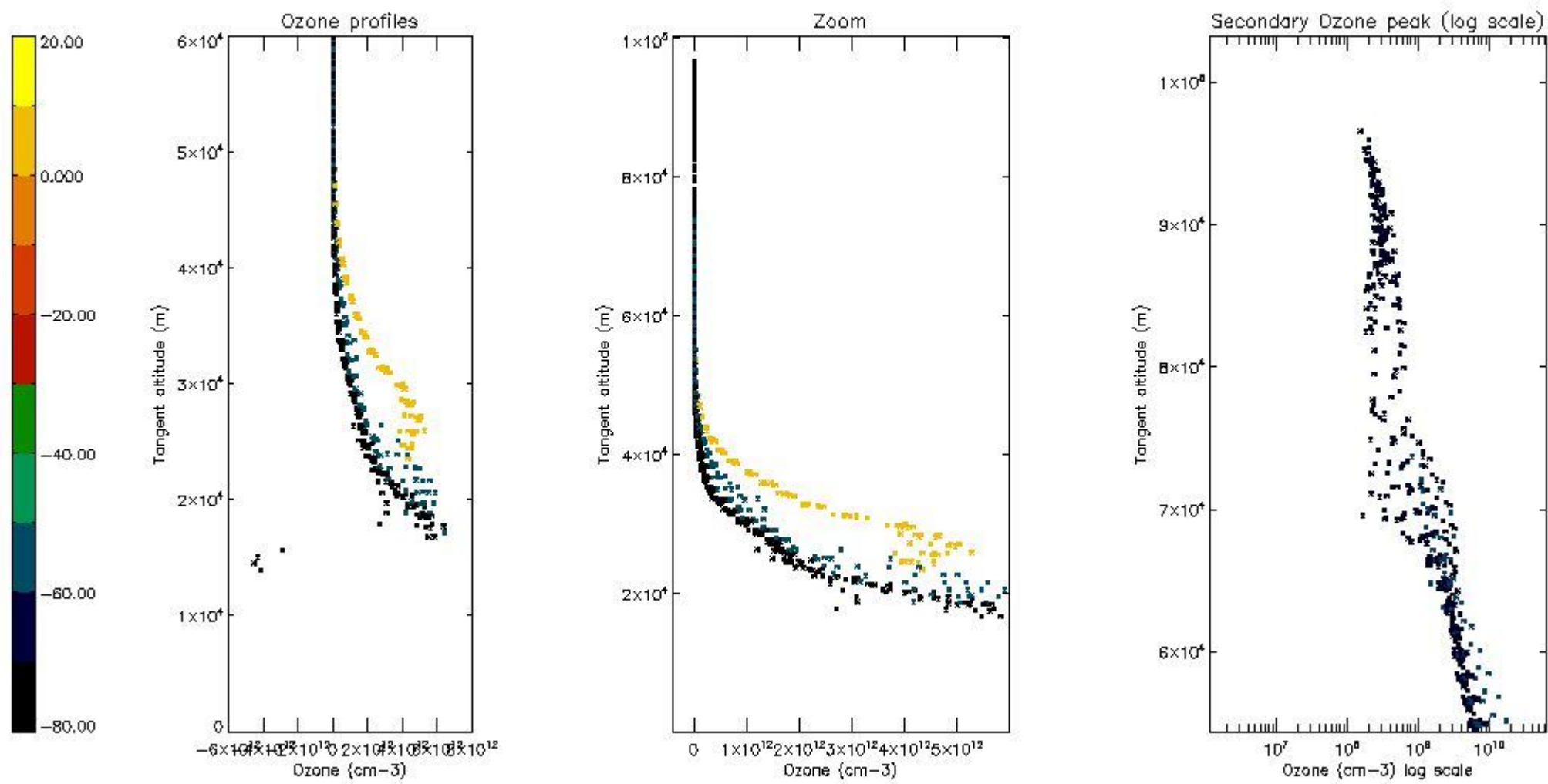
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



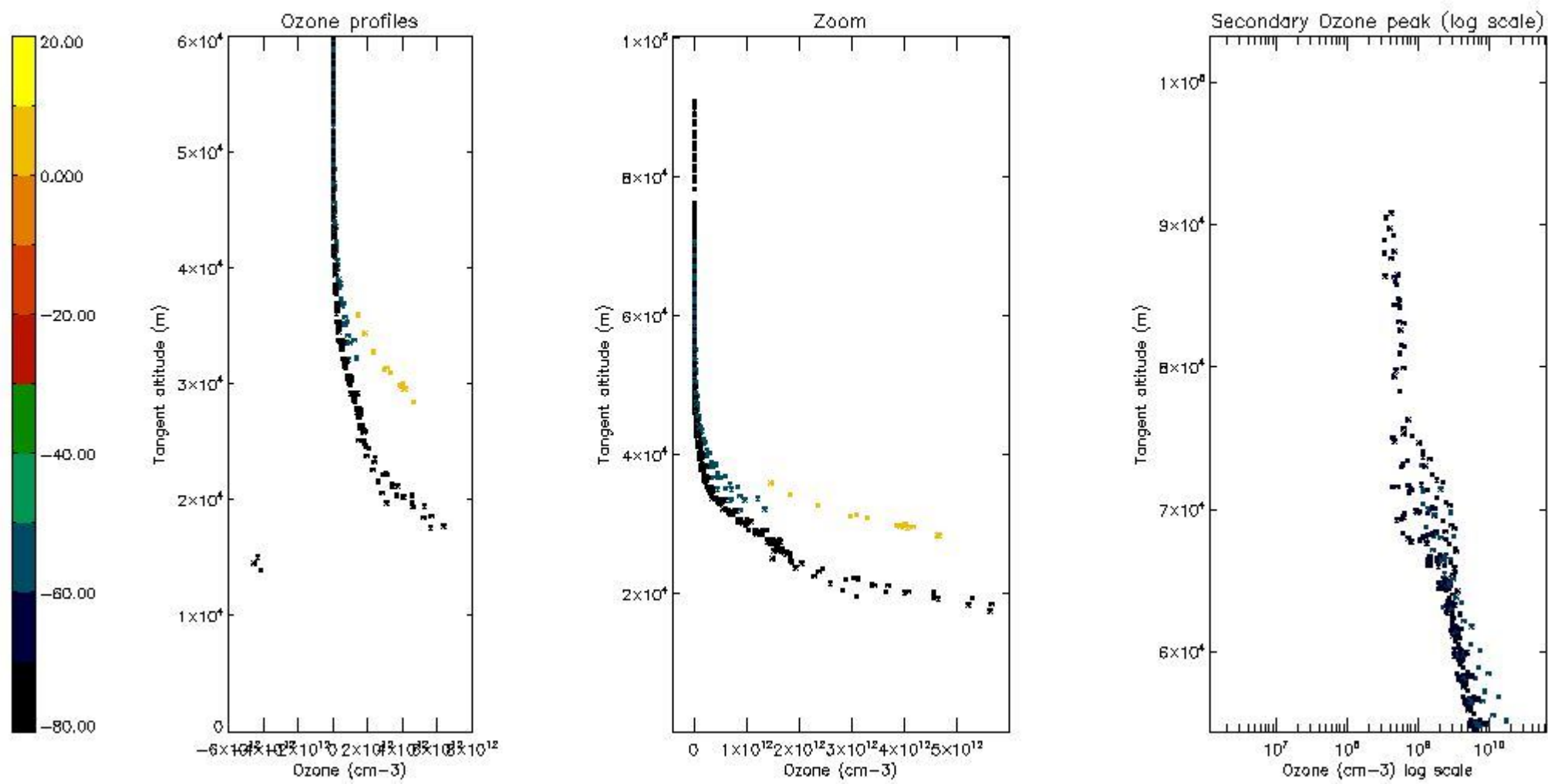
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



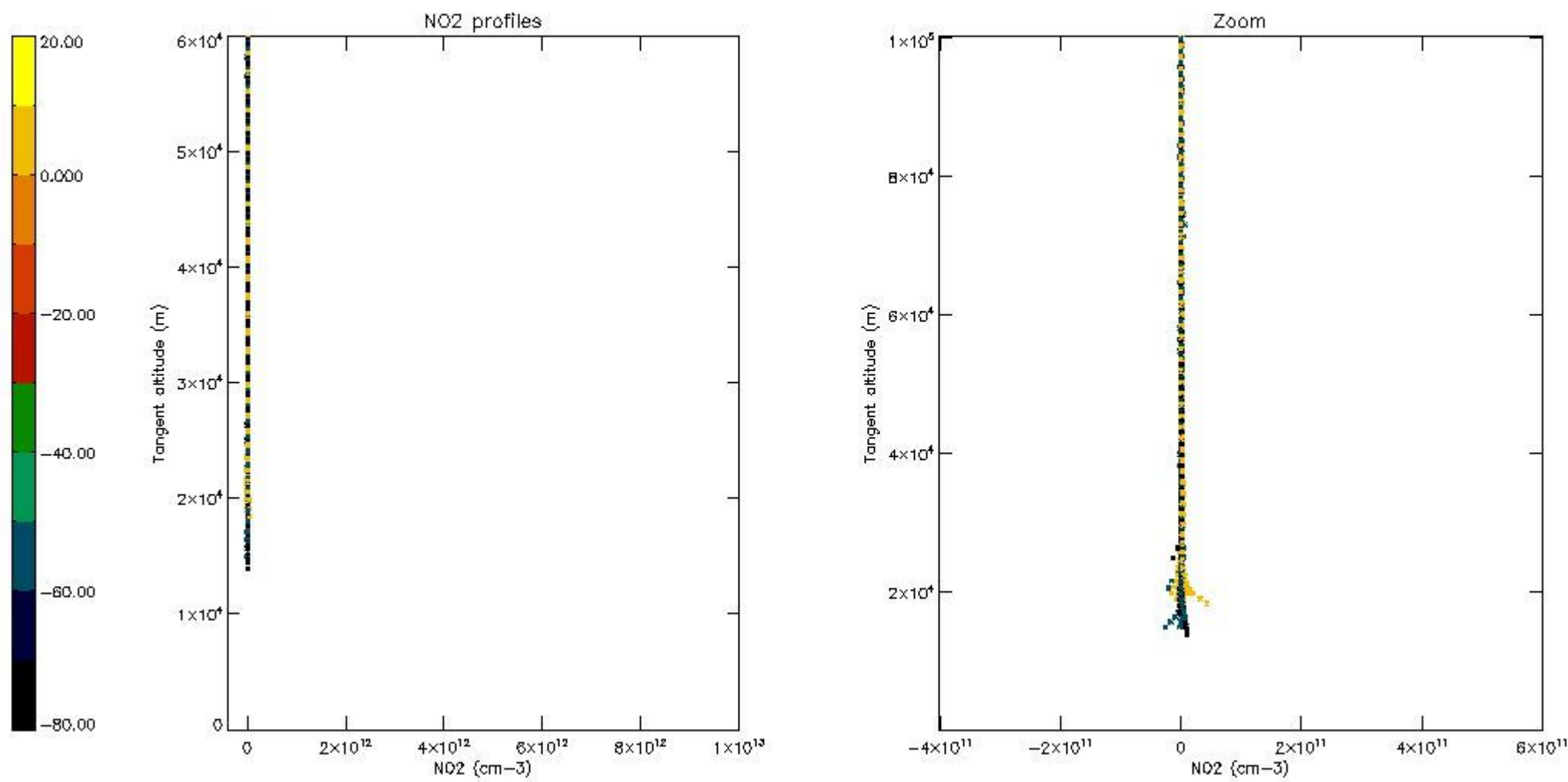
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



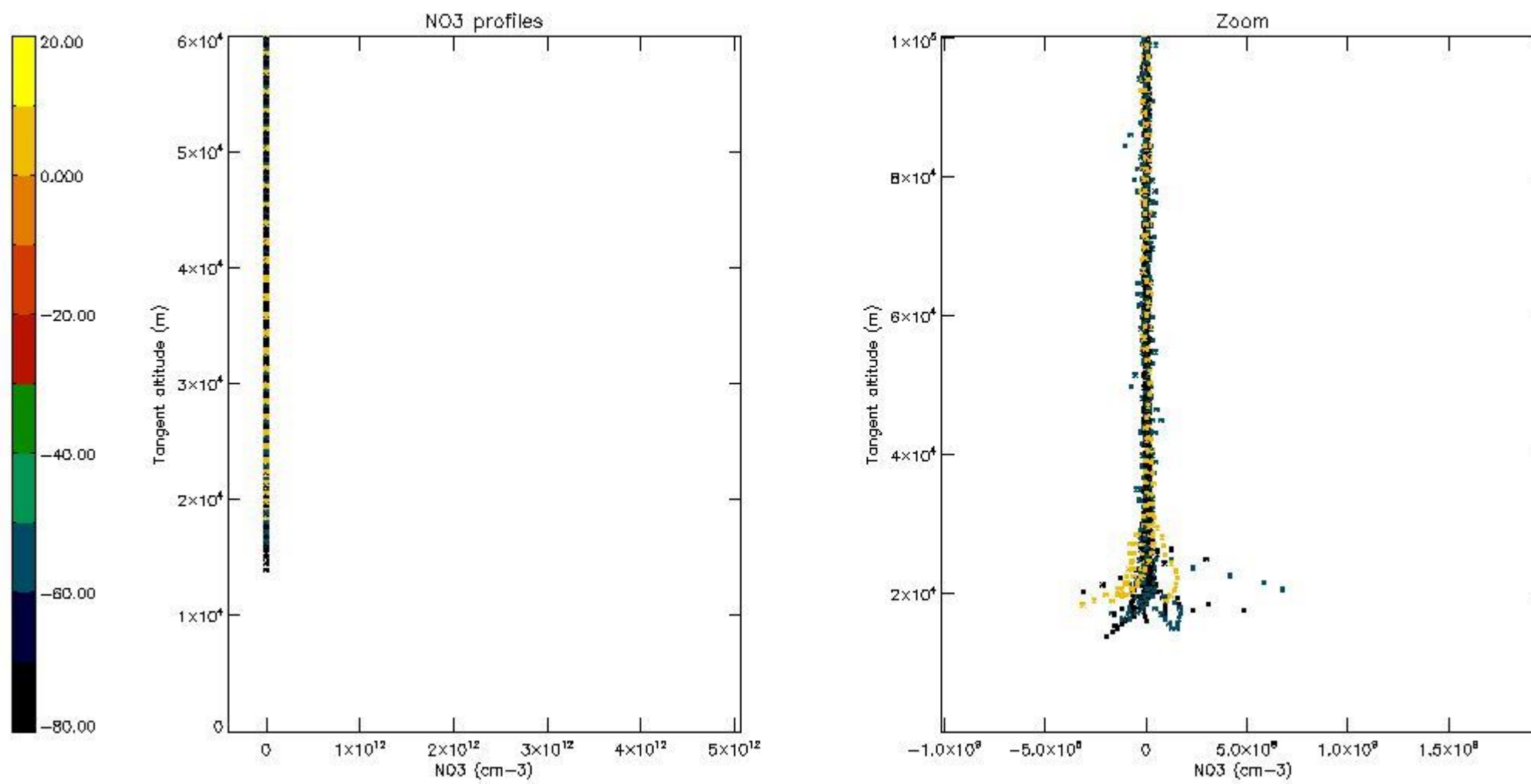
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

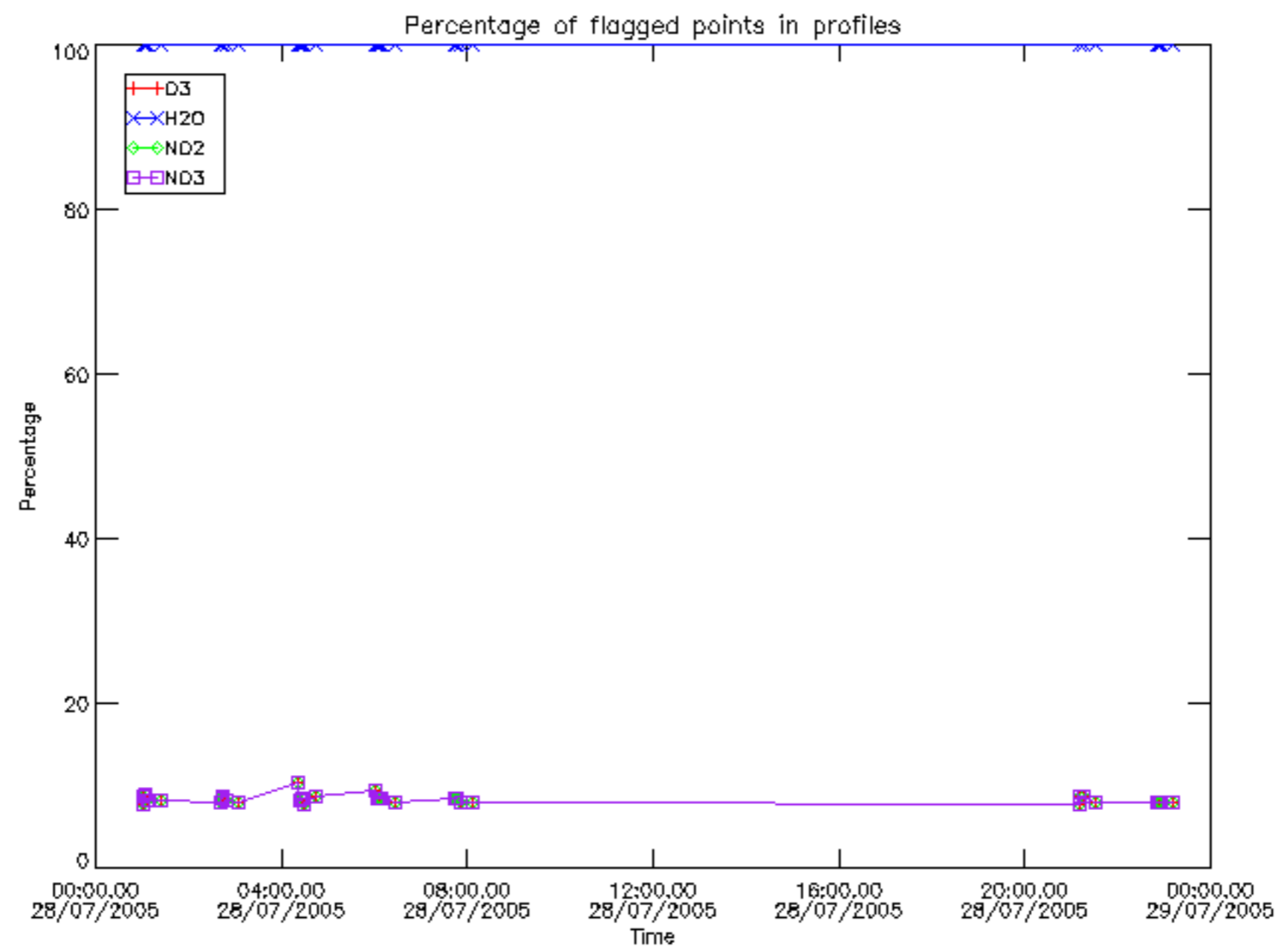
The colorbar represents the latitude.



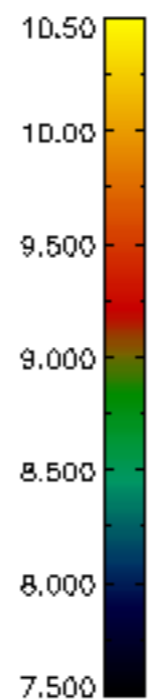
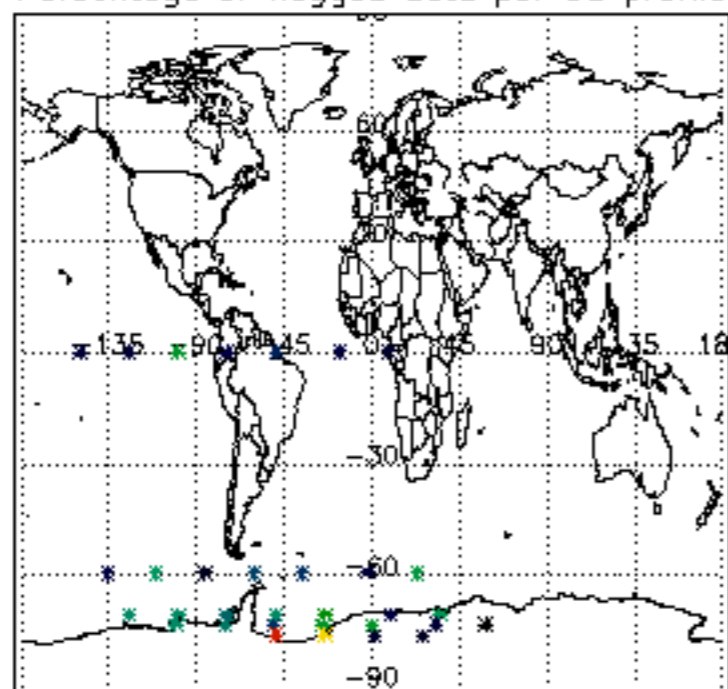
## 6. Auxiliary Data Files used for the production reported in section 2

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.

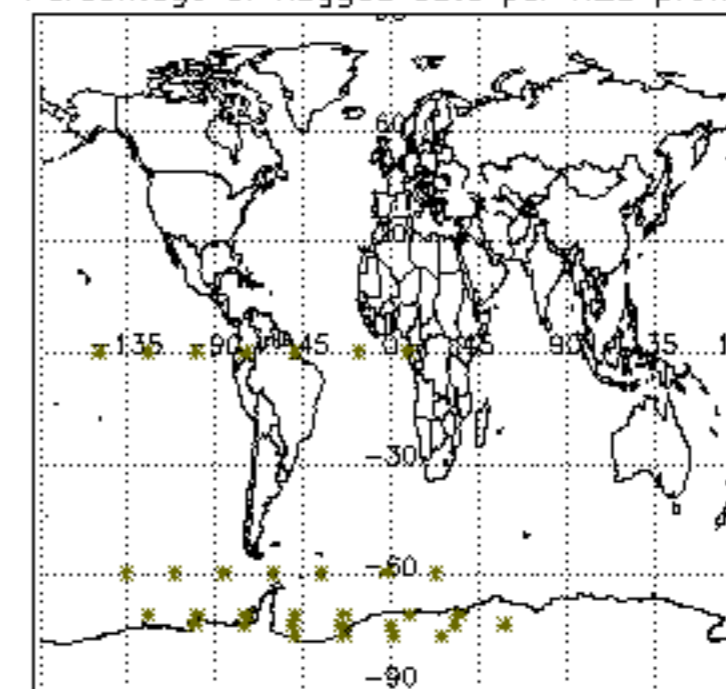
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	28-JUL-2005 00:02:47
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-JUL-2005 00:02:47
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-JUL-2005 00:02:47



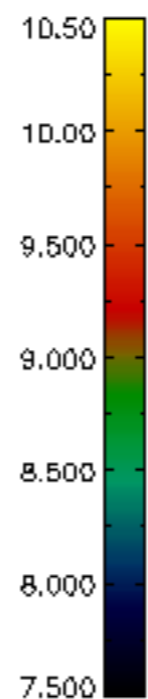
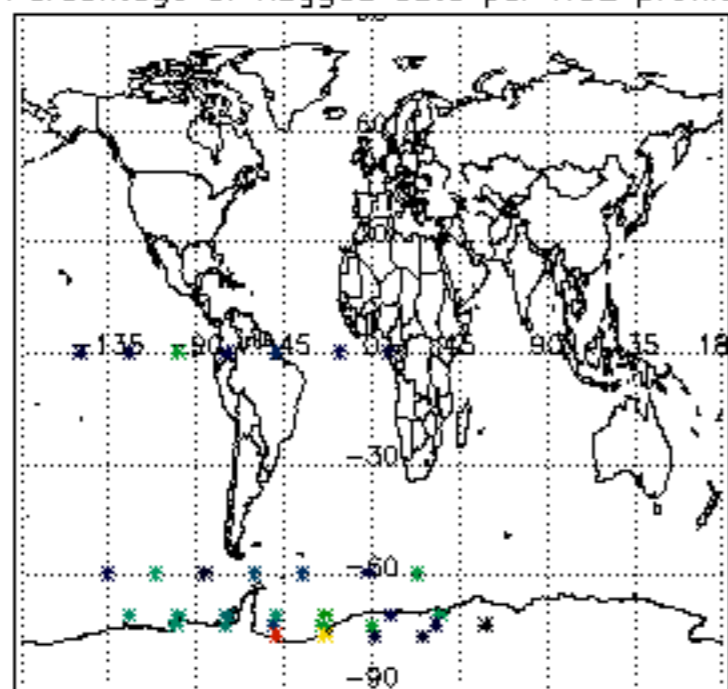
Percentage of flagged data per D3 profile



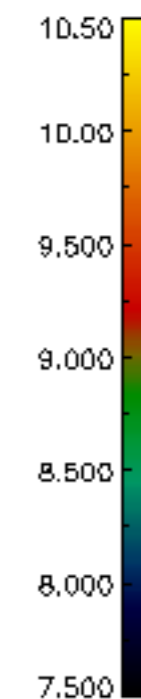
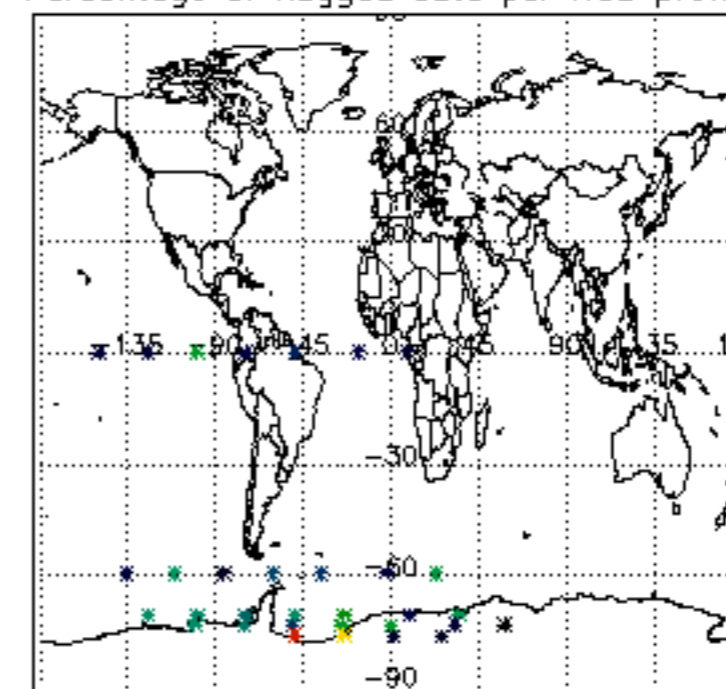
Percentage of flagged data per H2O profile



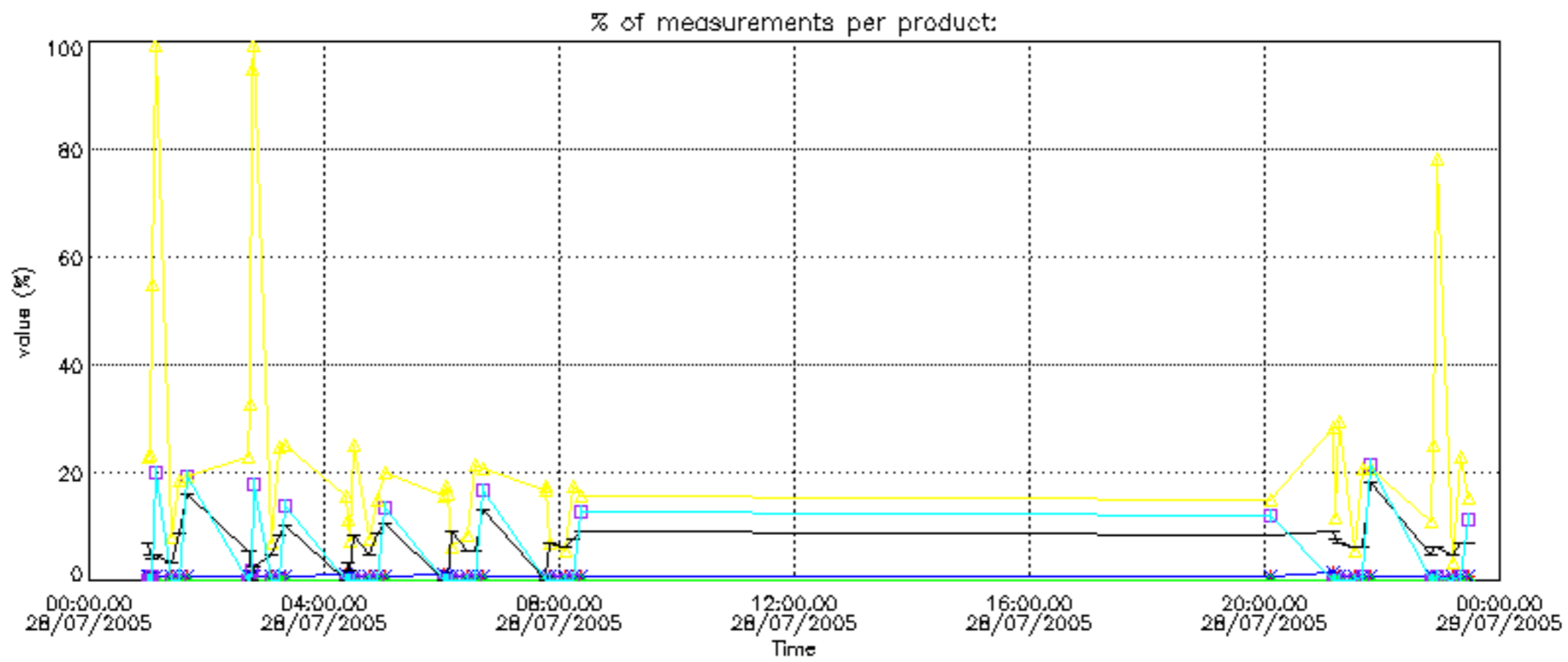
Percentage of flagged data per NO2 profile

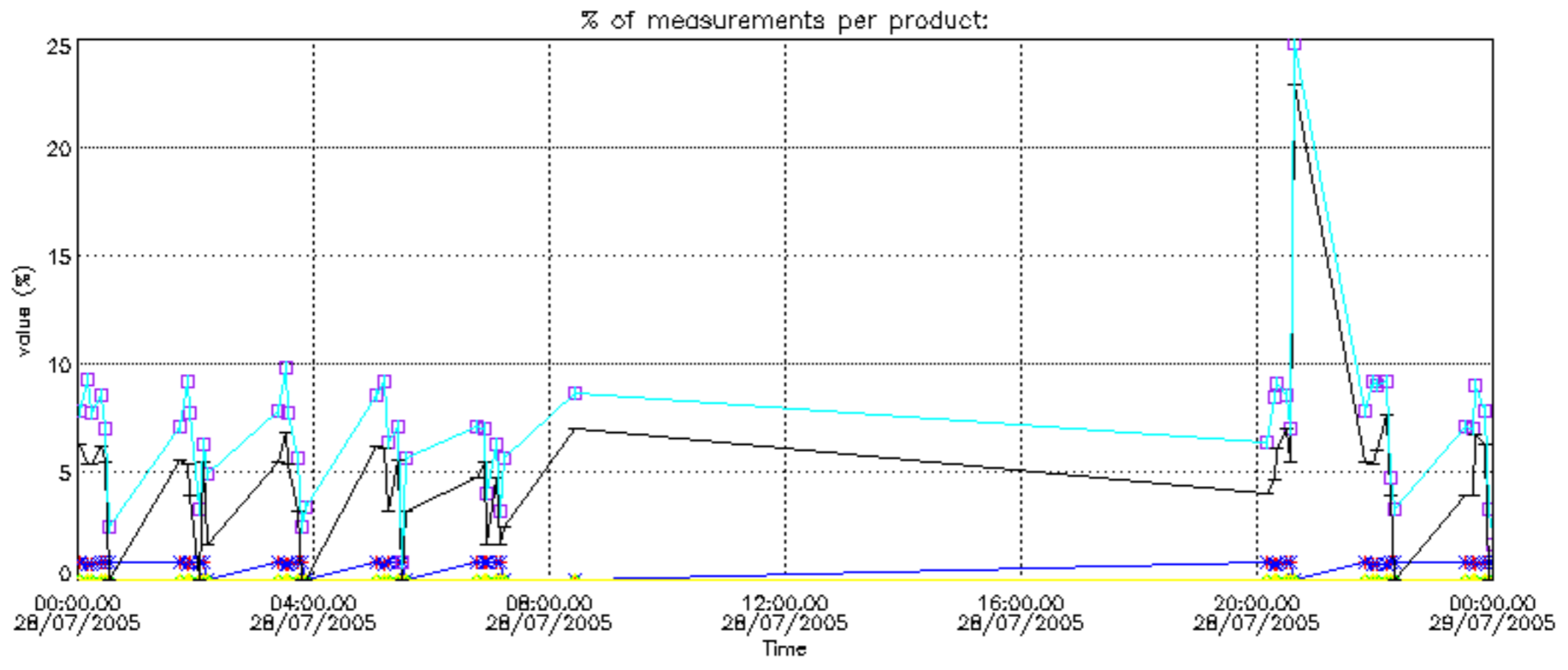


Percentage of flagged data per NO3 profile

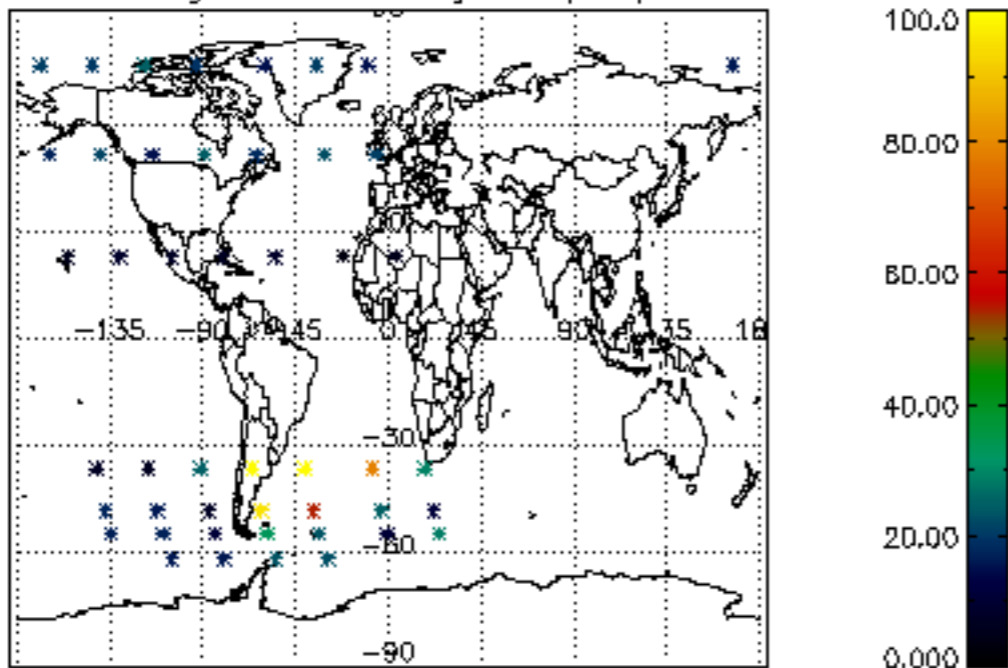




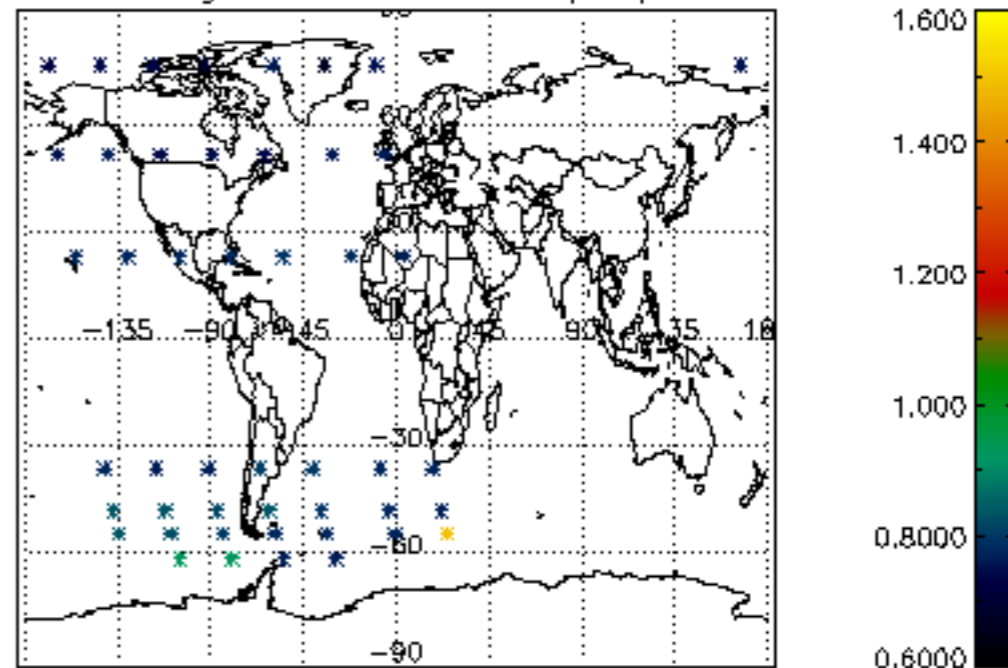




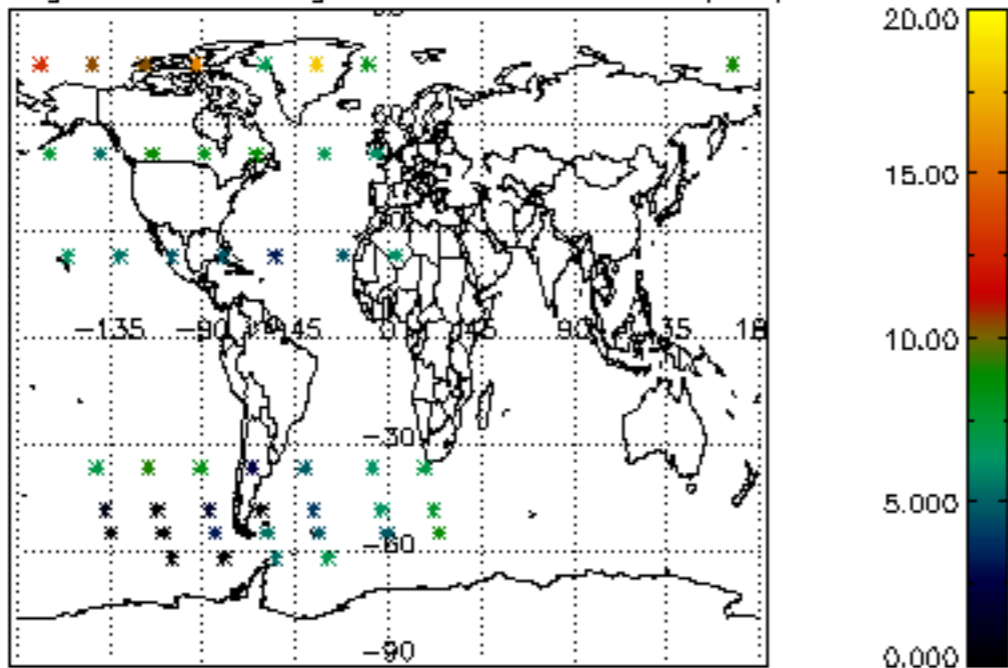
Percentage of cosmic ray hits per profile



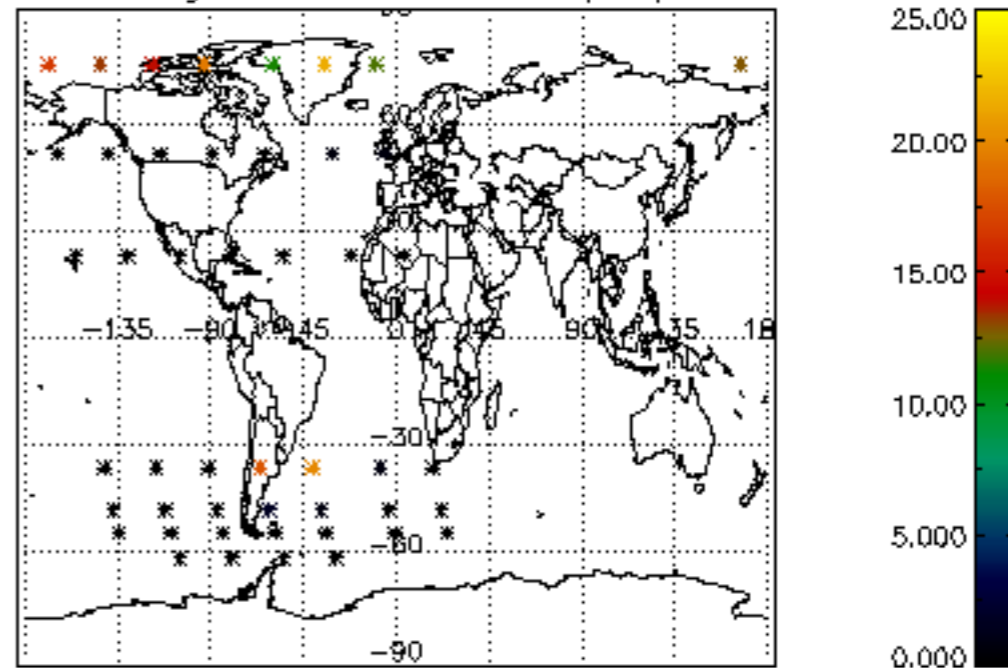
Percentage of datation errors per profile



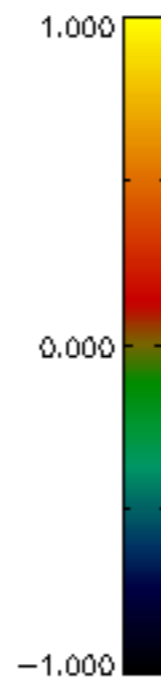
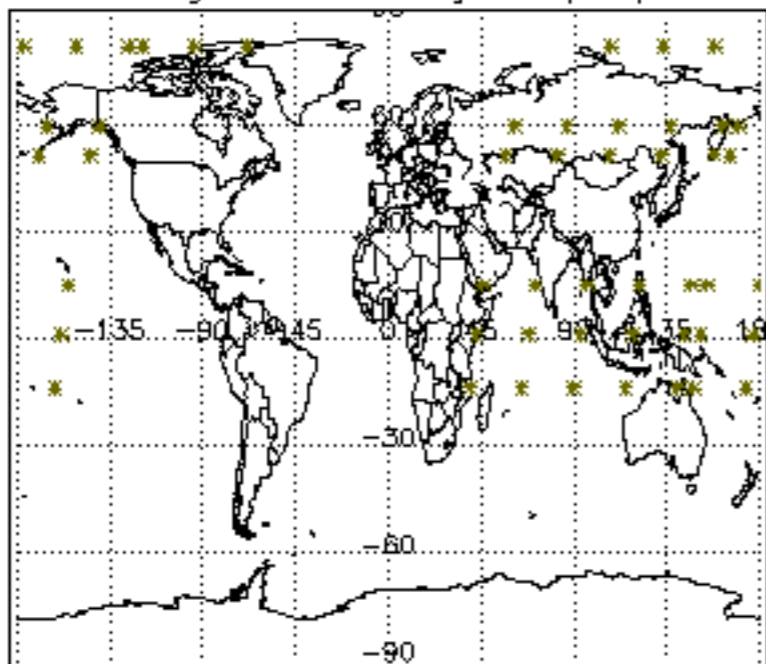
Percentage of star falling outside central band per profile



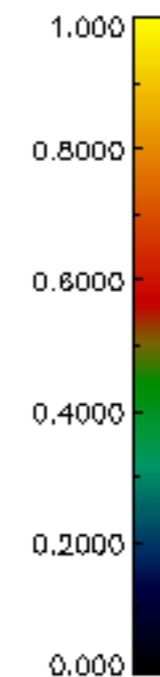
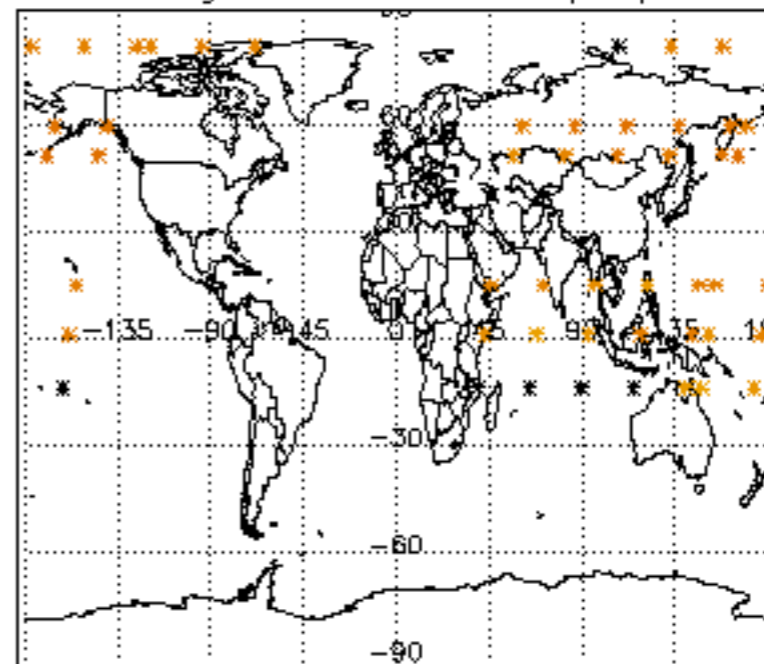
Percentage of saturation errors per profile



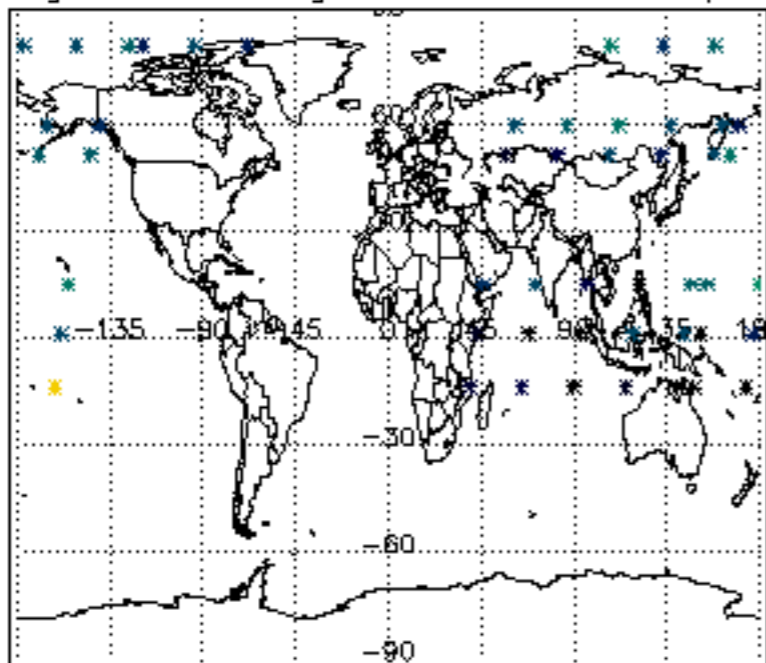
Percentage of cosmic ray hits per profile



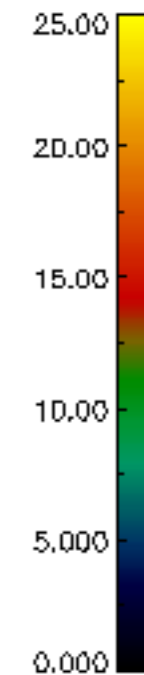
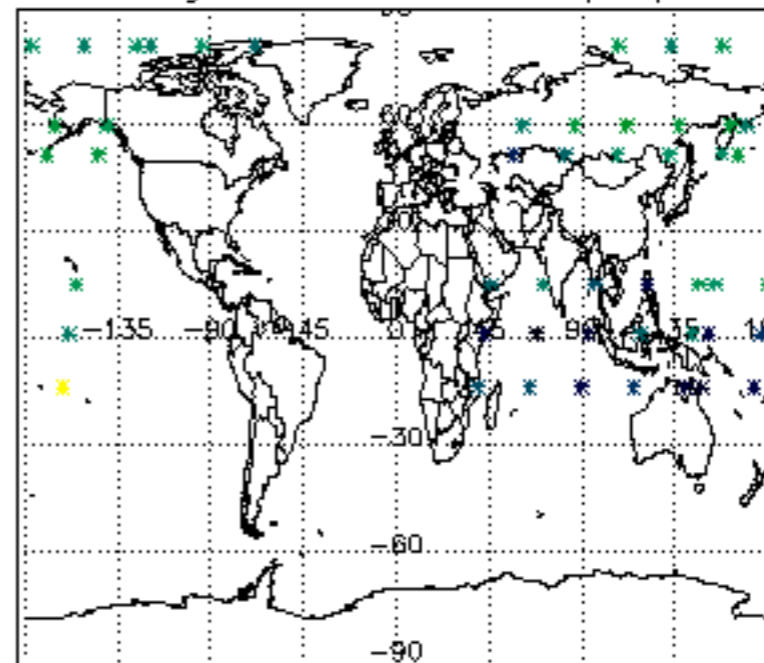
Percentage of datation errors per profile

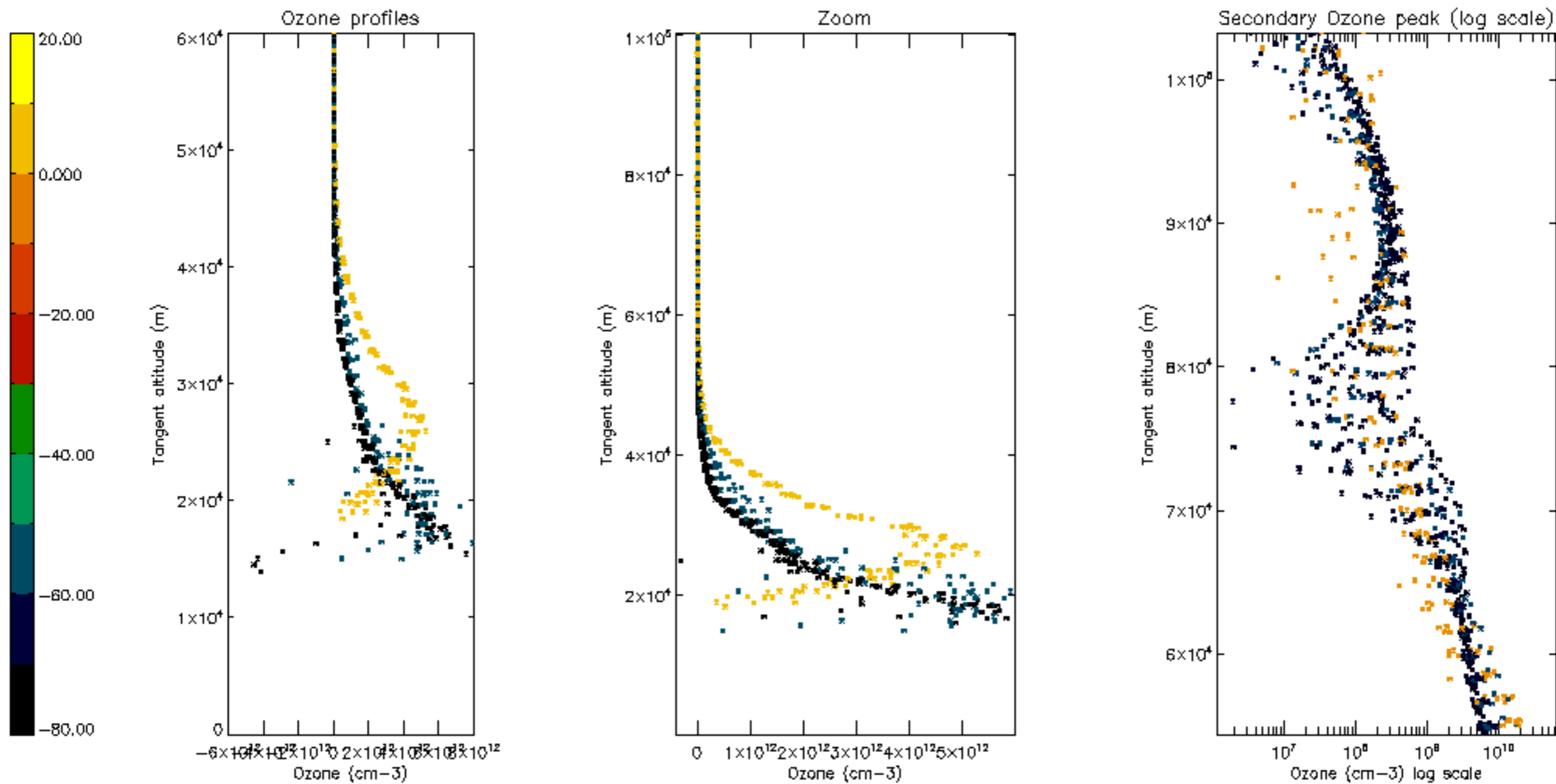


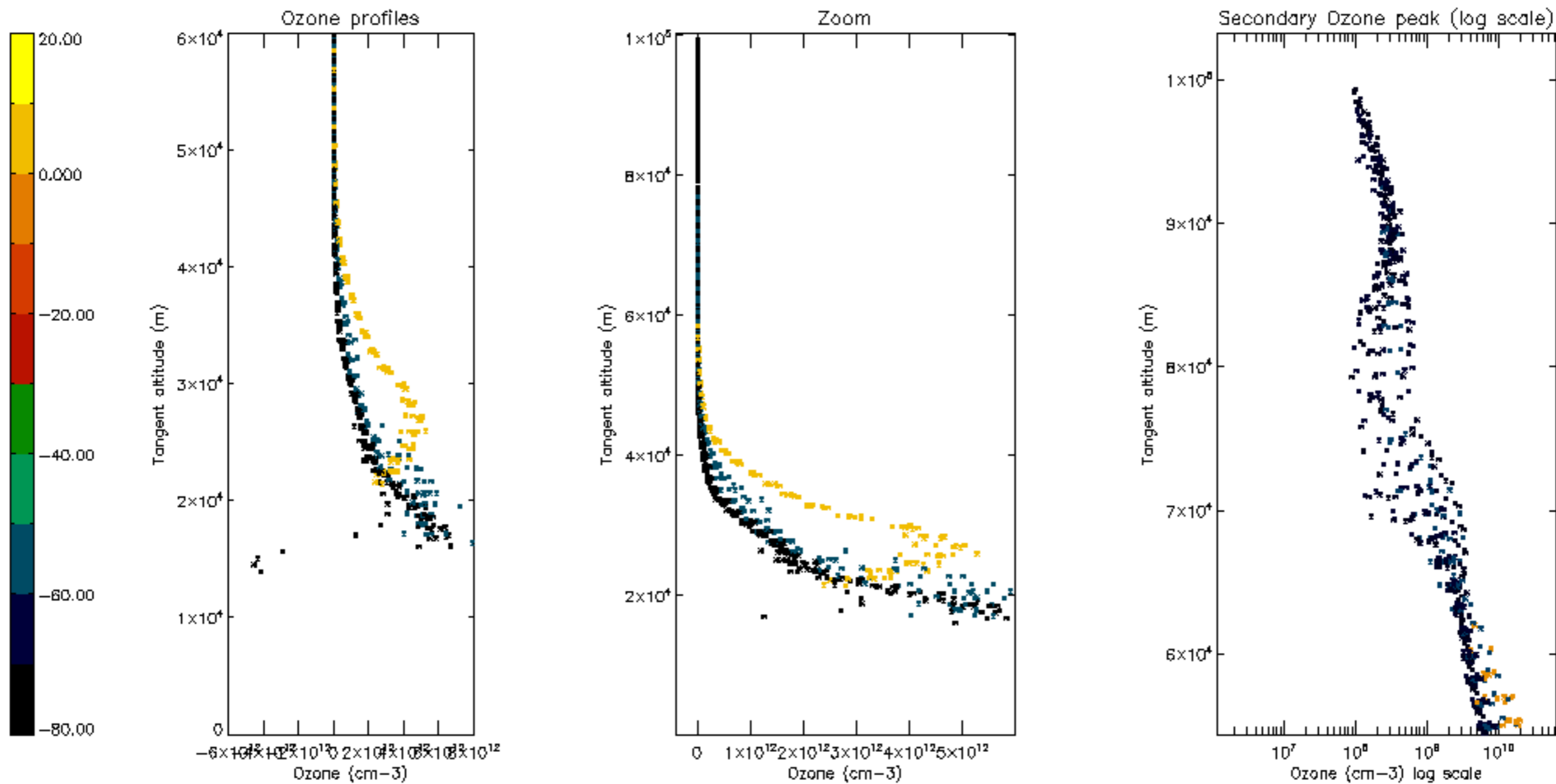
Percentage of star falling outside central band per profile

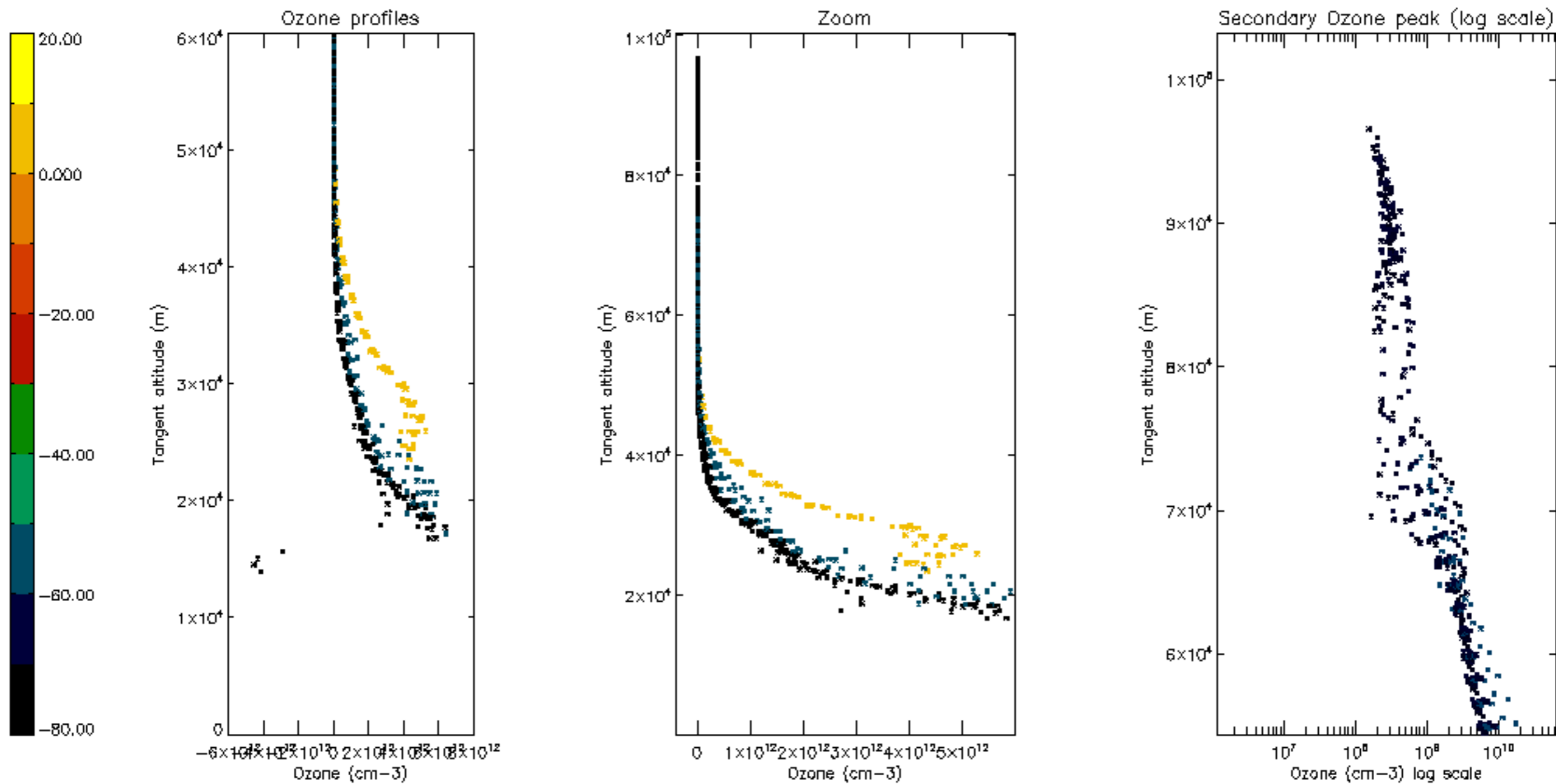


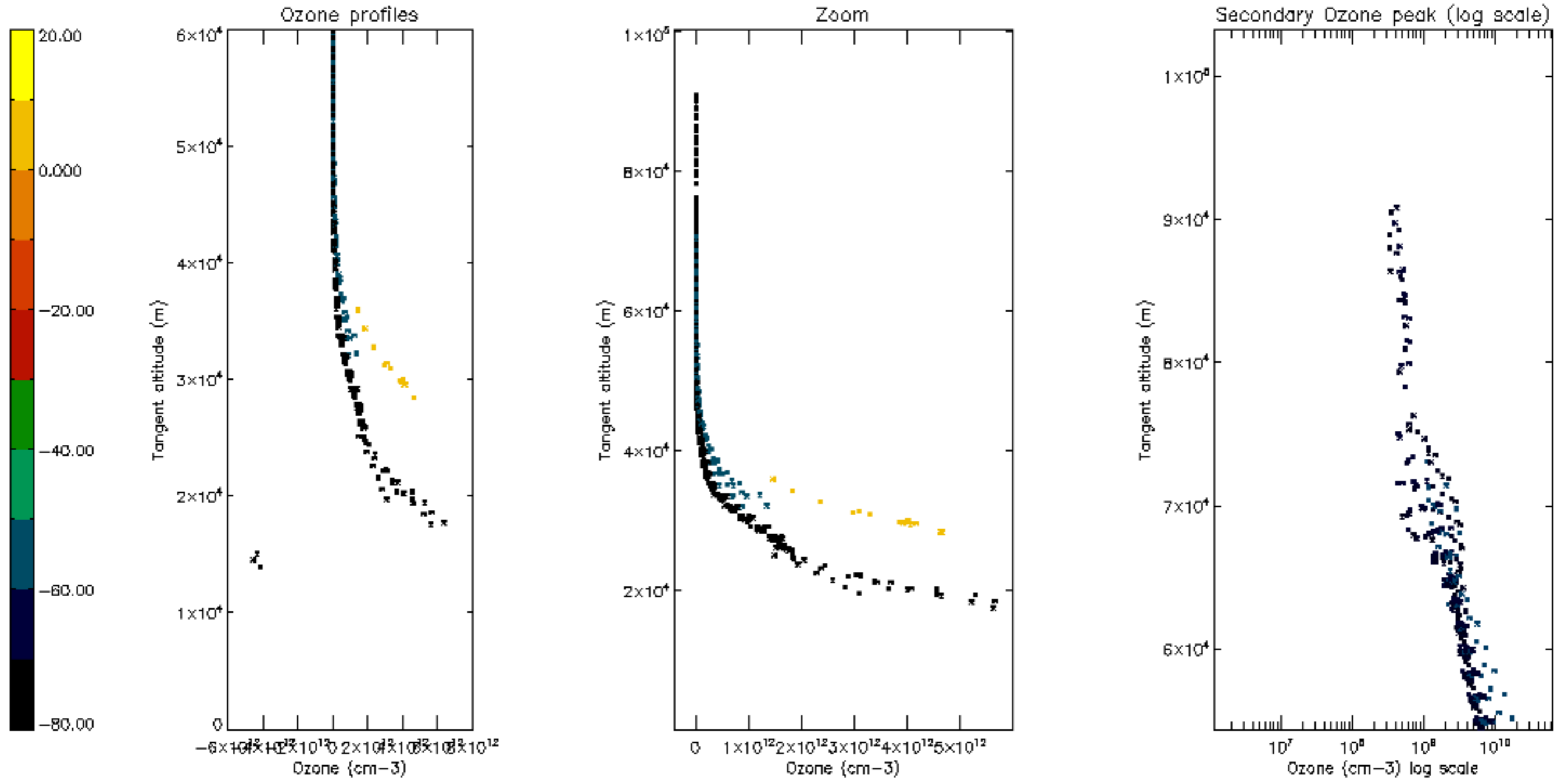
Percentage of saturation errors per profile



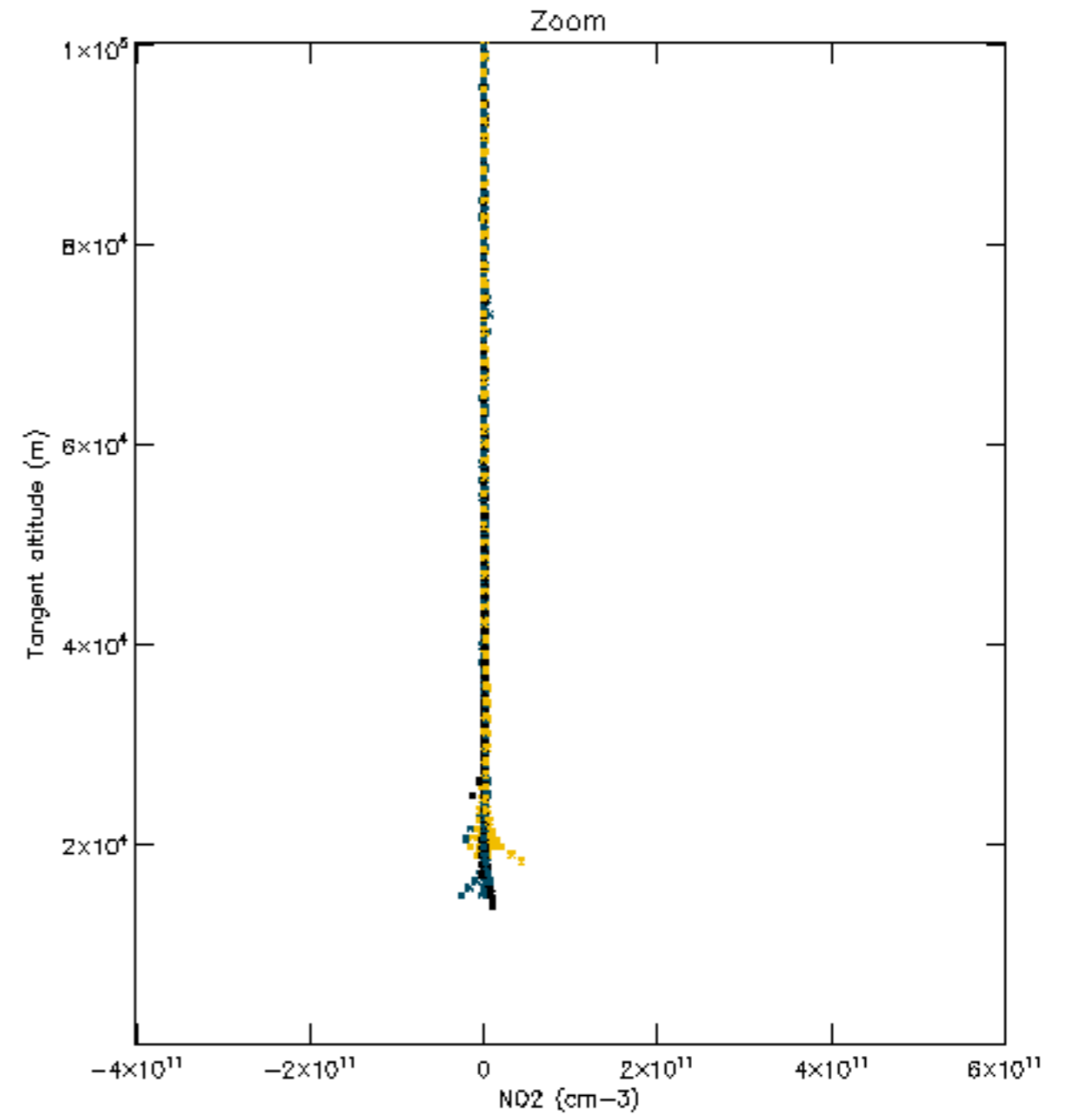
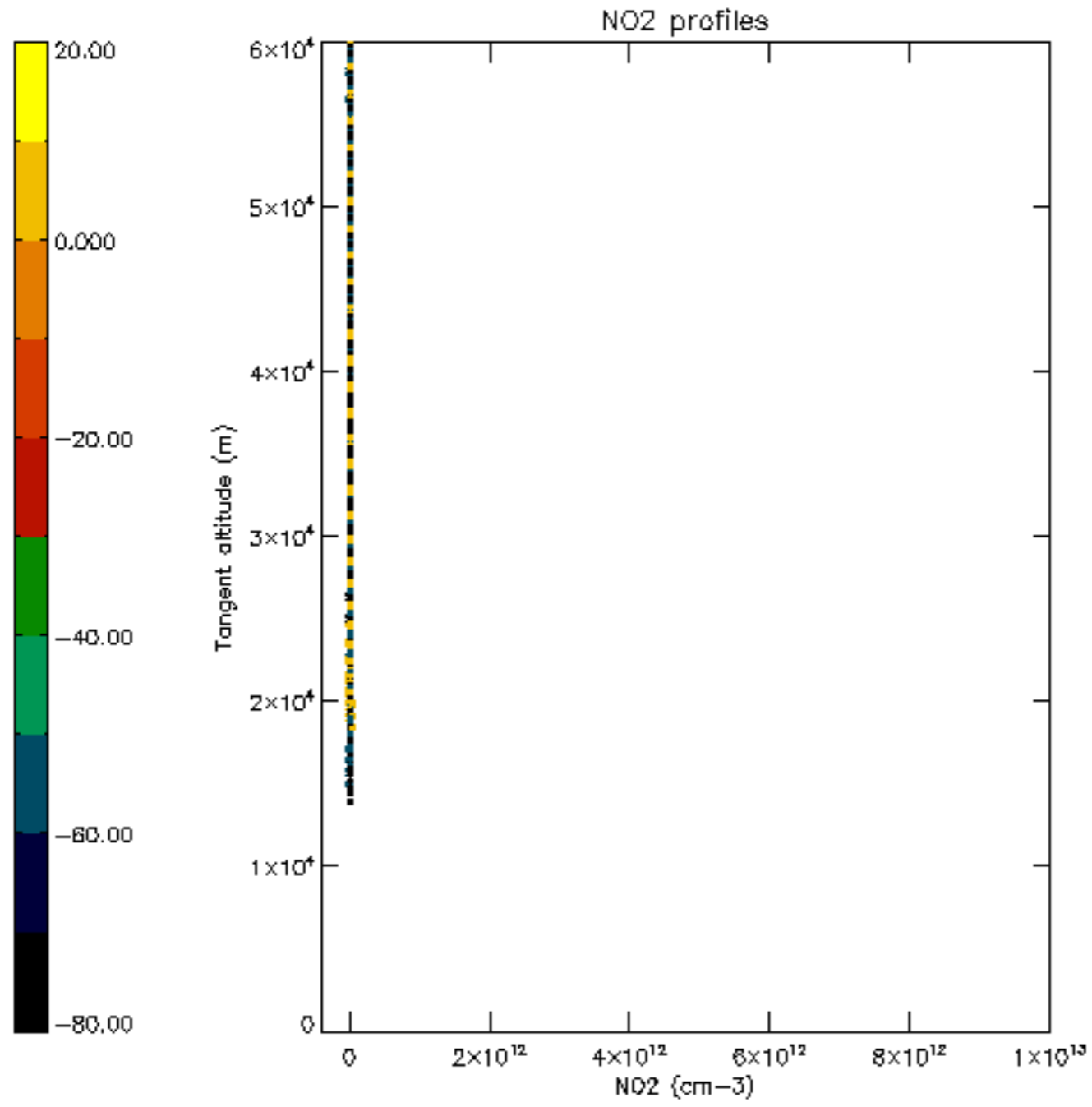


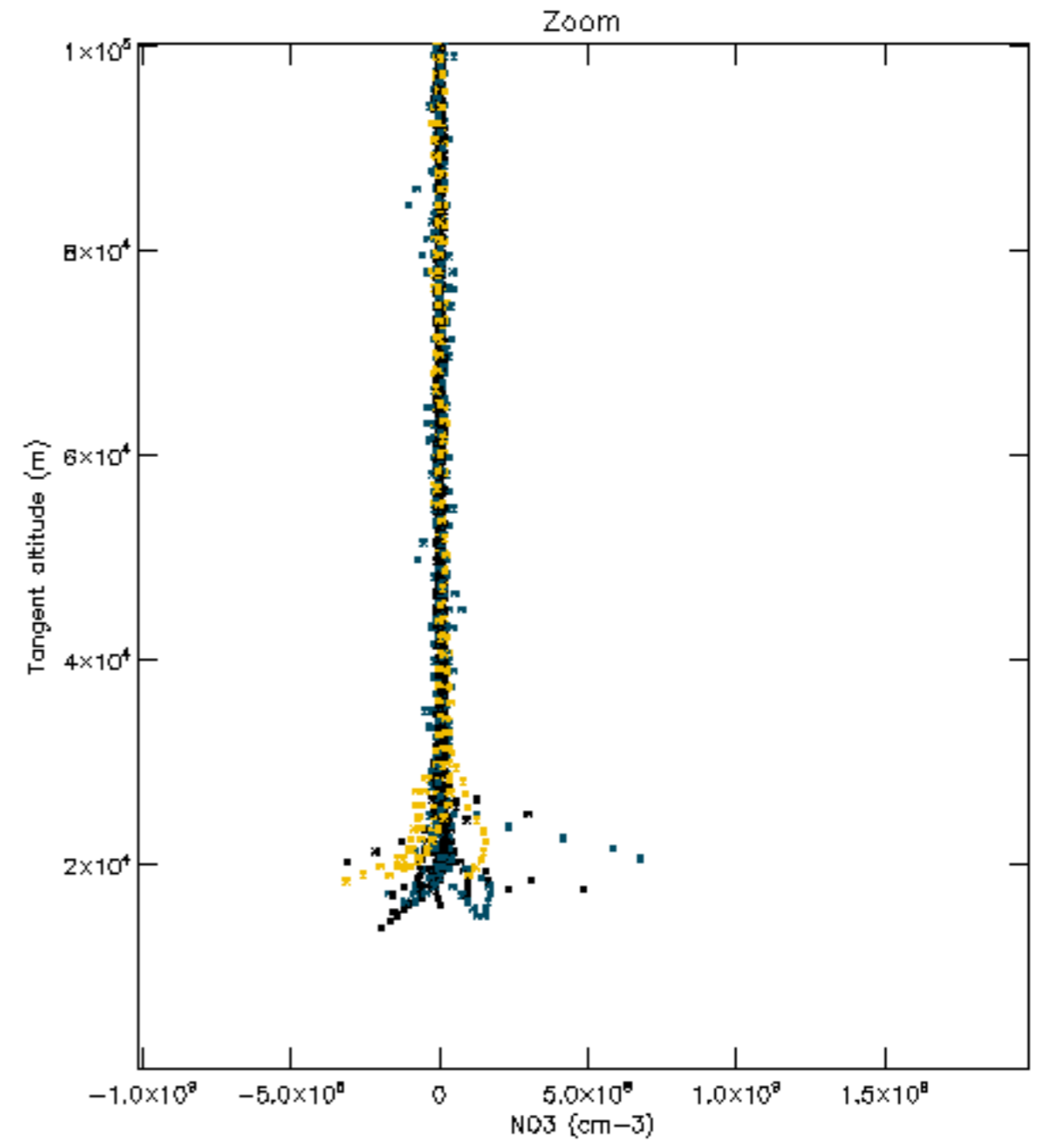
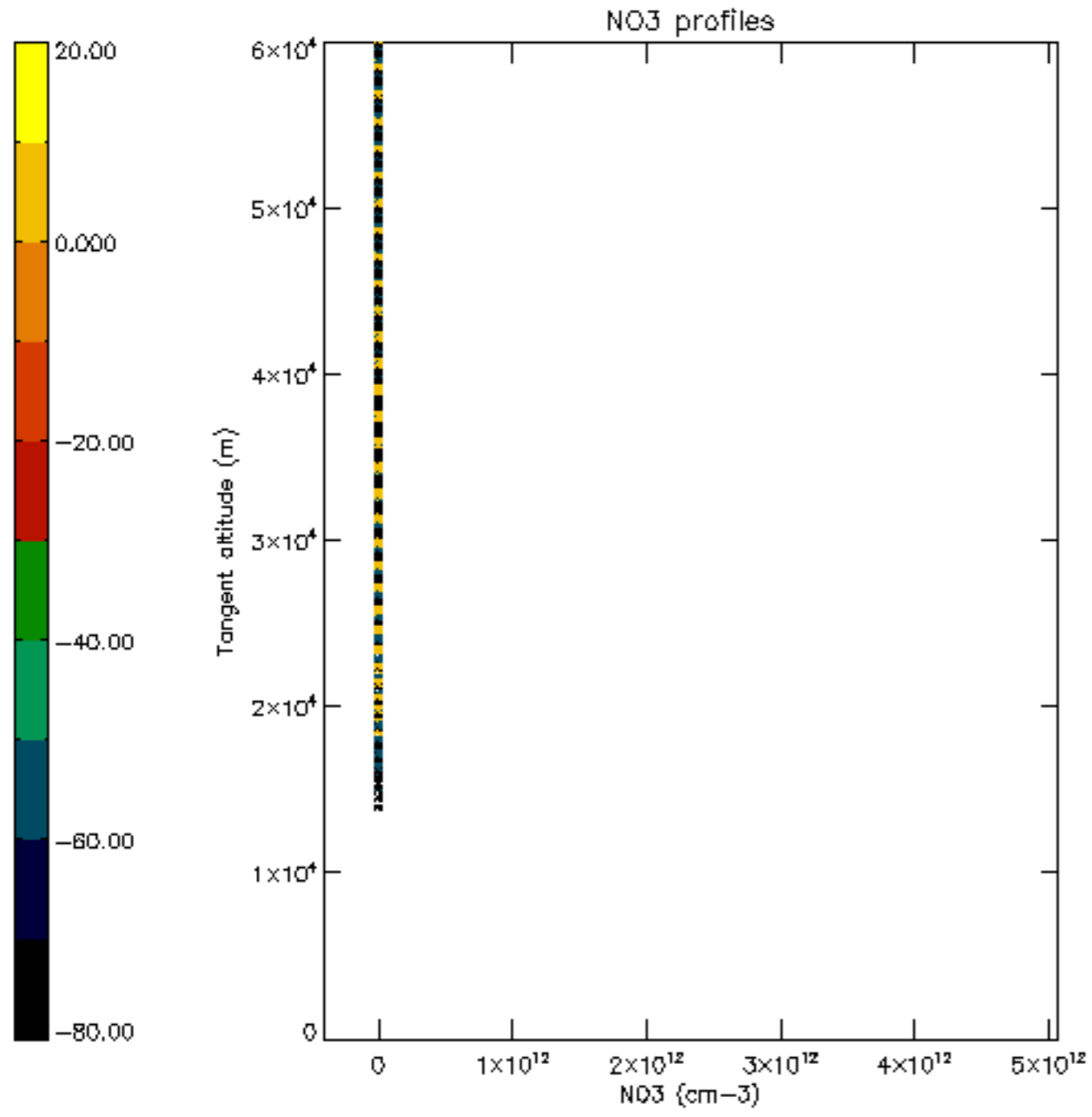


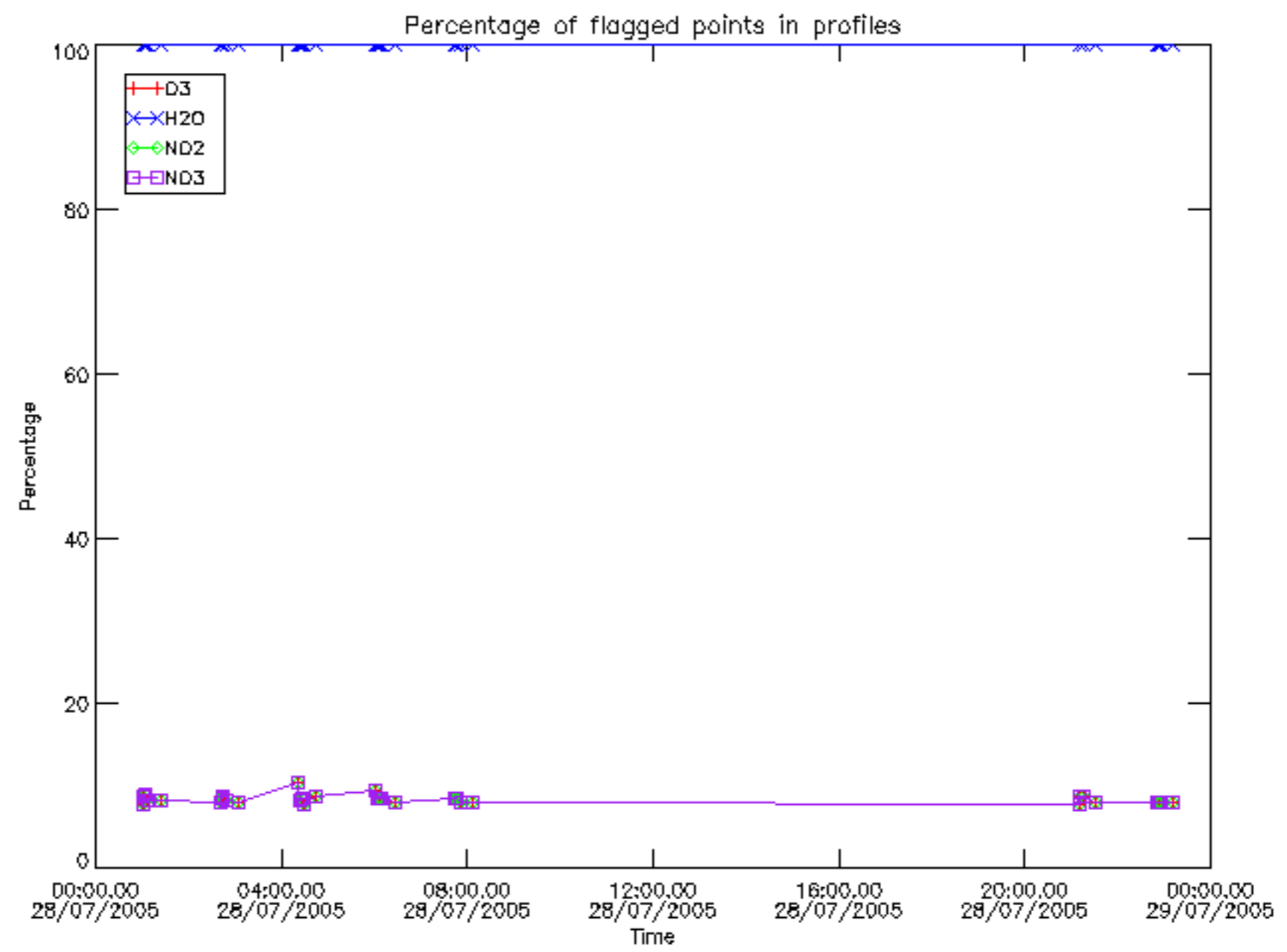




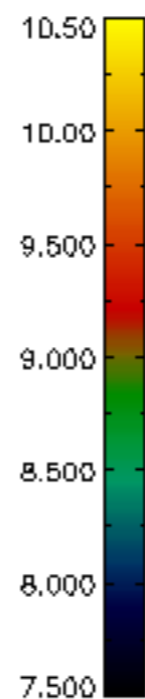
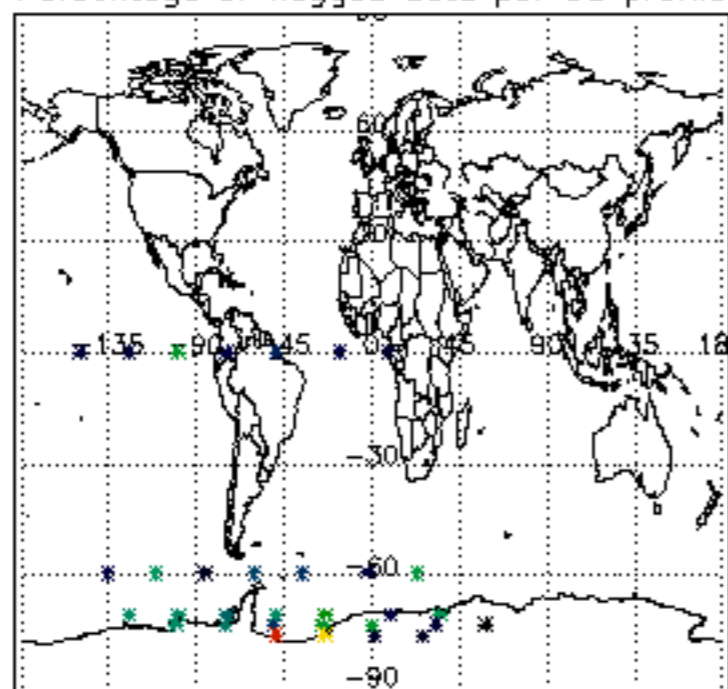




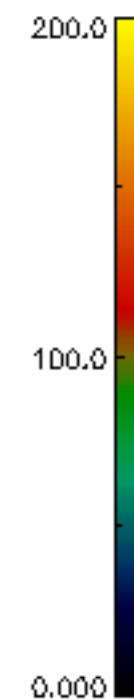
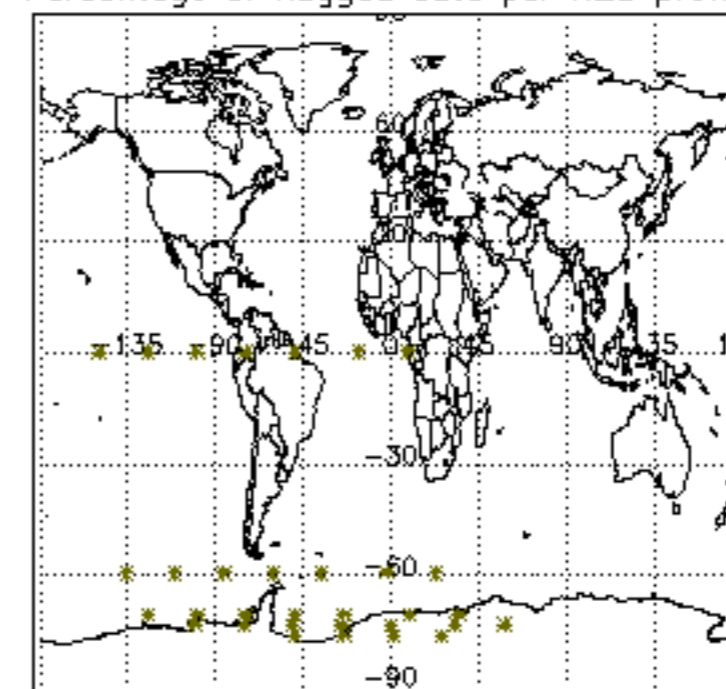




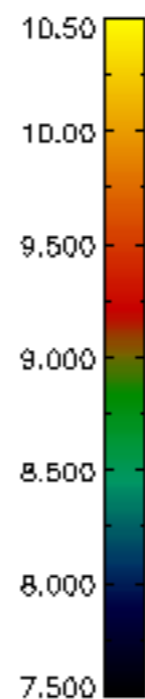
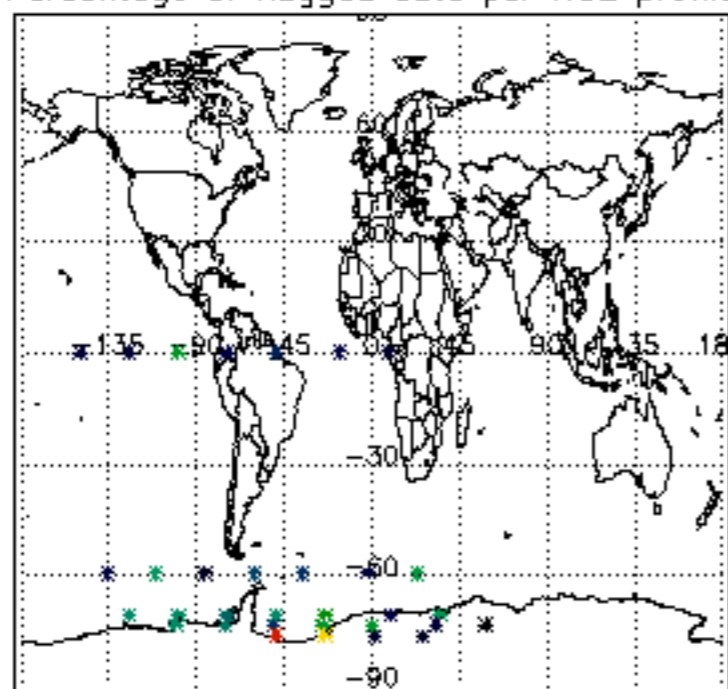
Percentage of flagged data per D3 profile



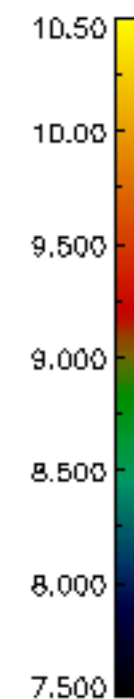
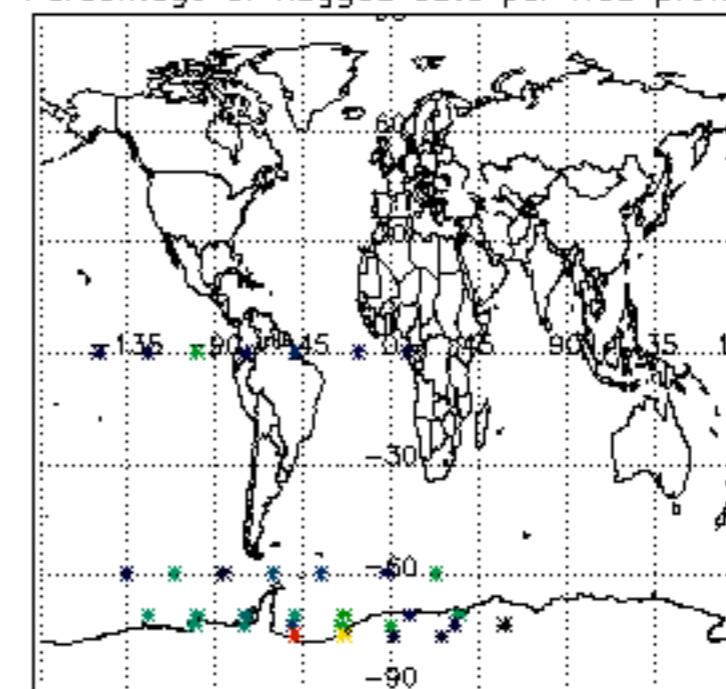
Percentage of flagged data per H2O profile

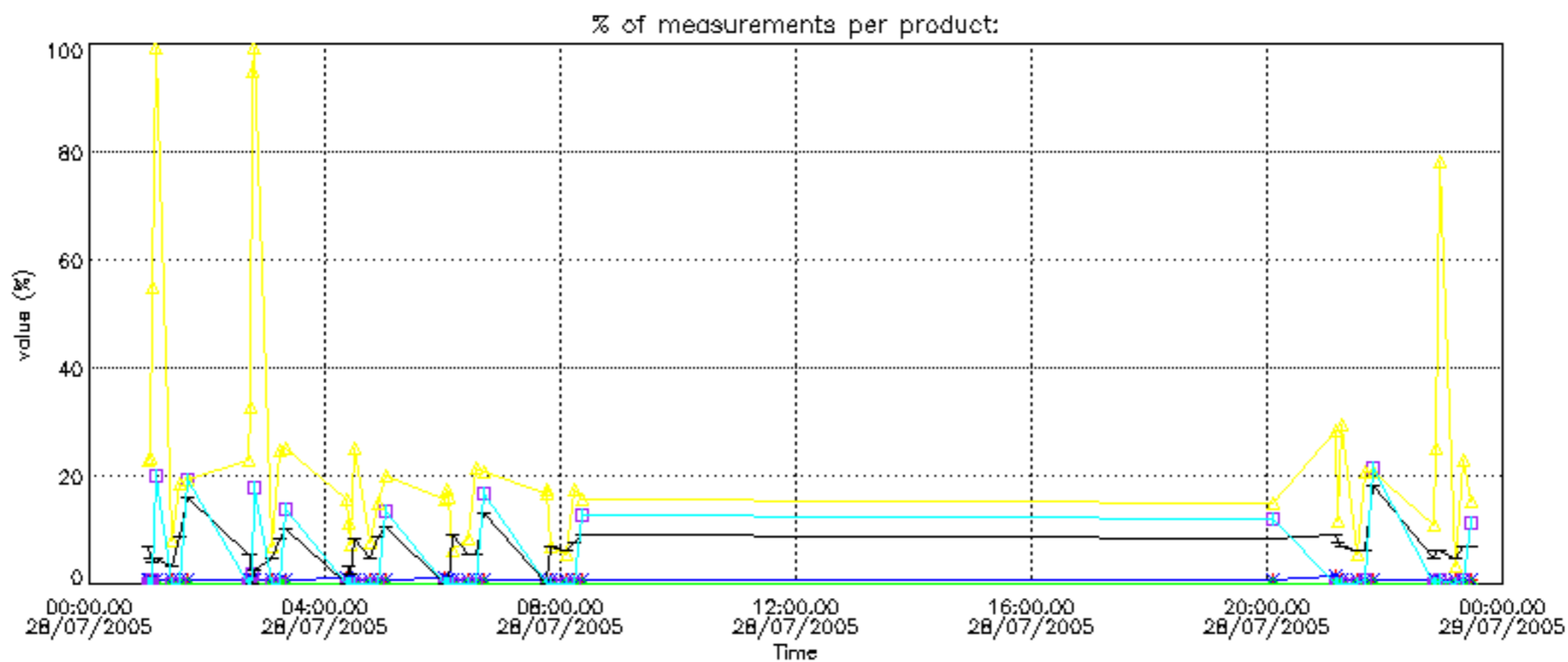


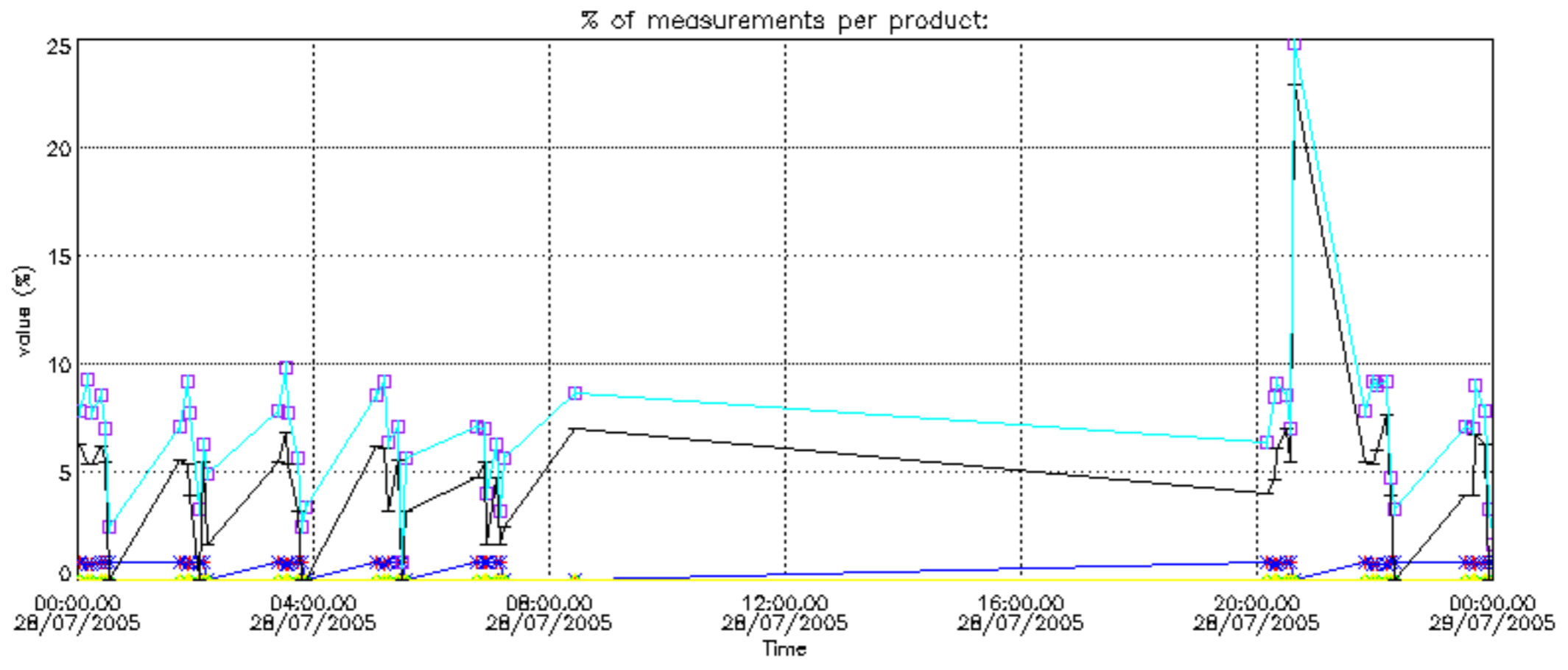
Percentage of flagged data per NO2 profile



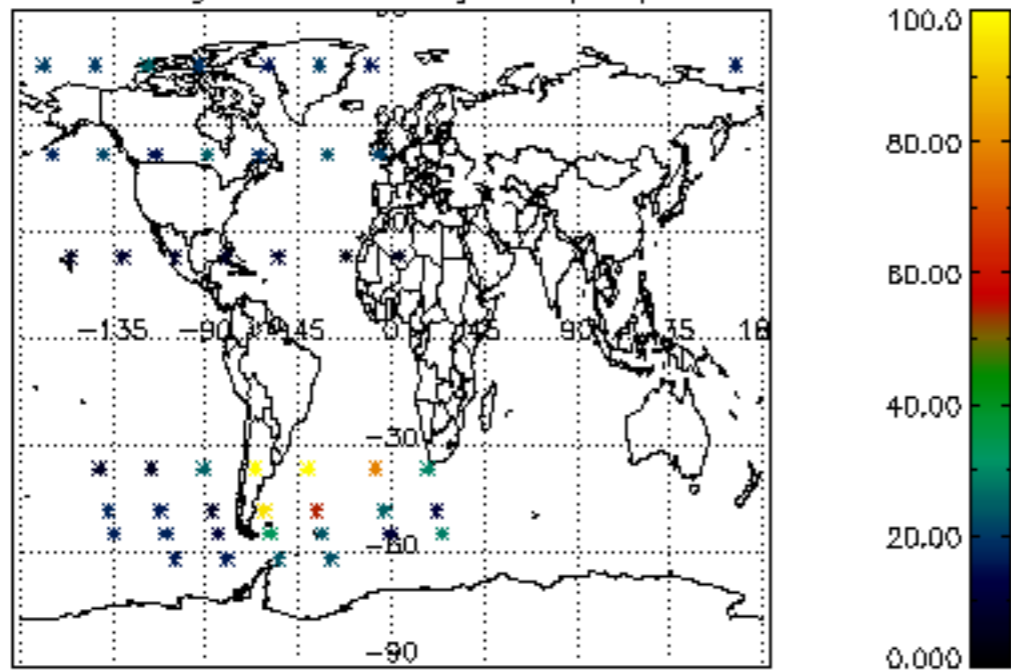
Percentage of flagged data per NO3 profile



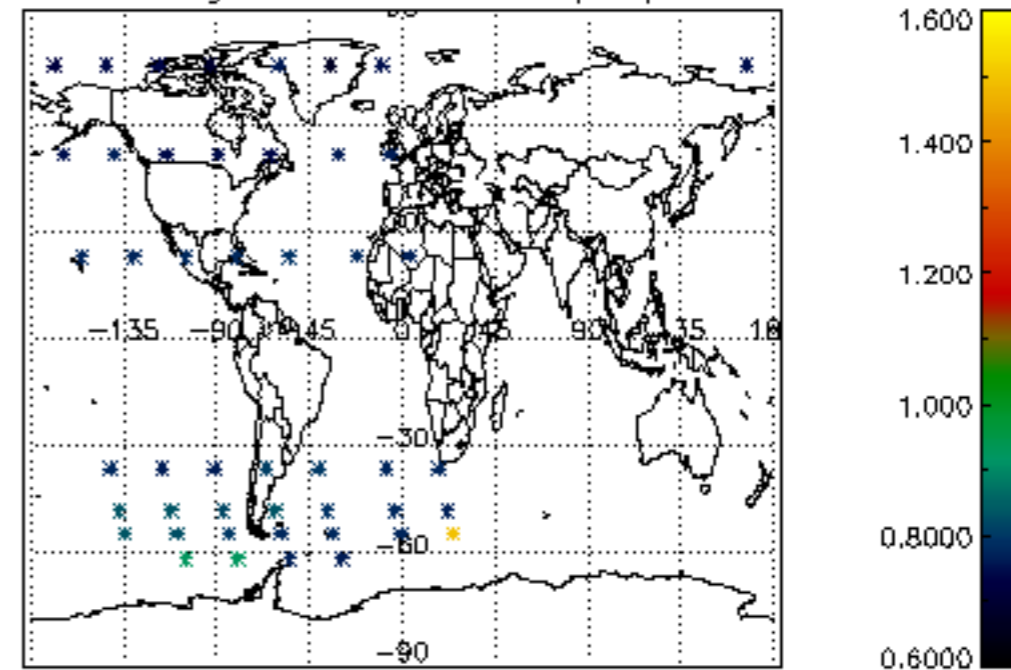




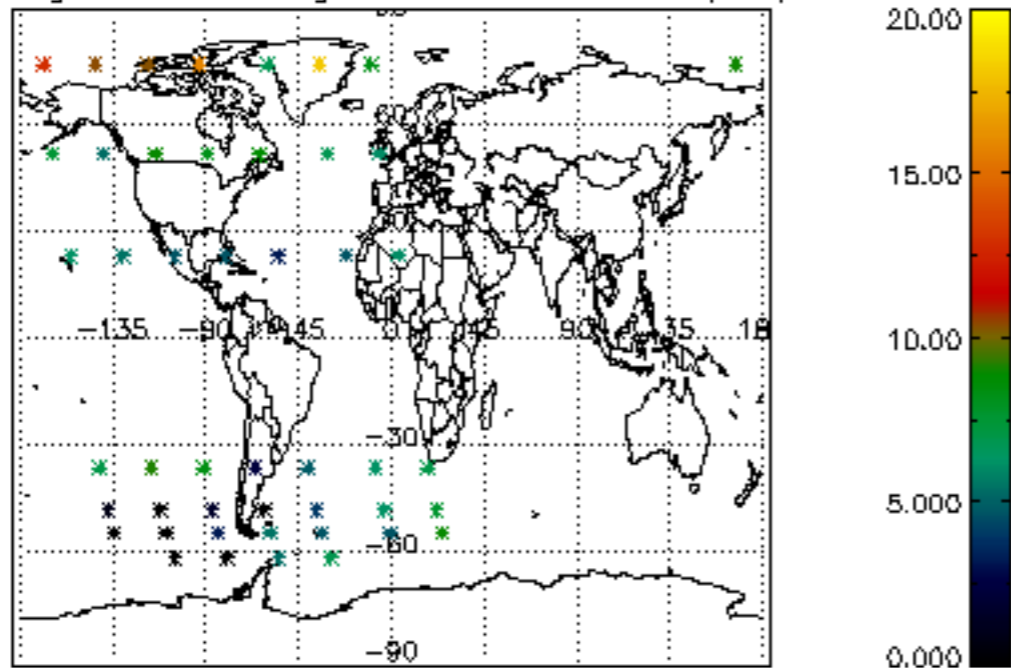
Percentage of cosmic ray hits per profile



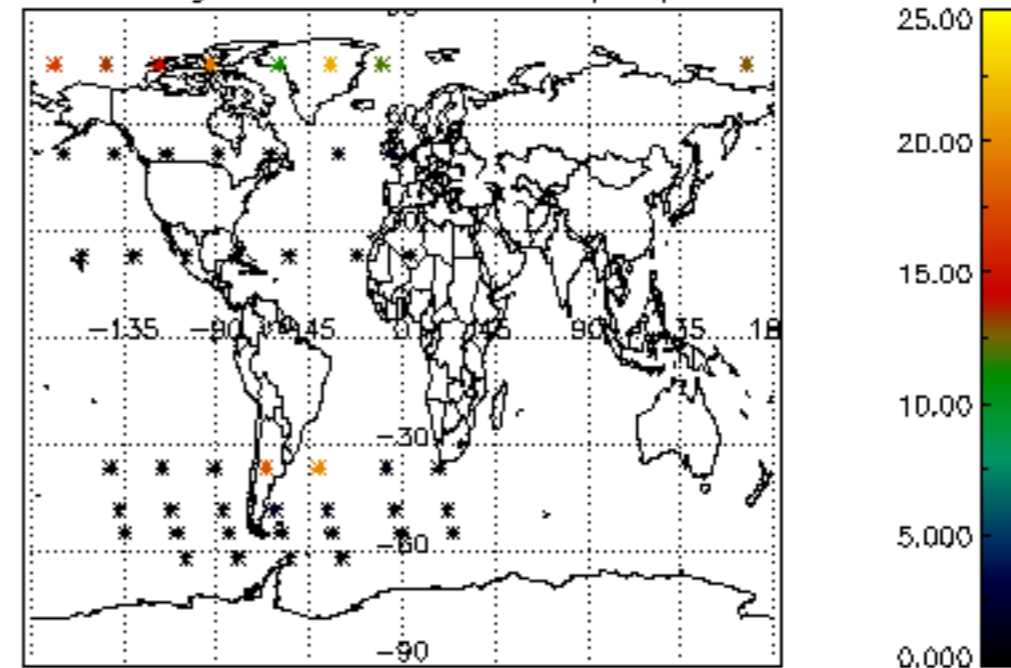
Percentage of datation errors per profile



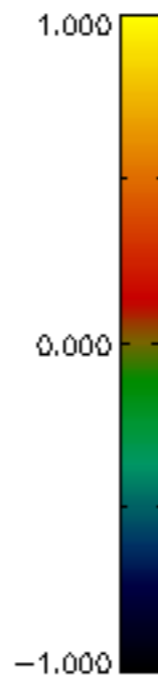
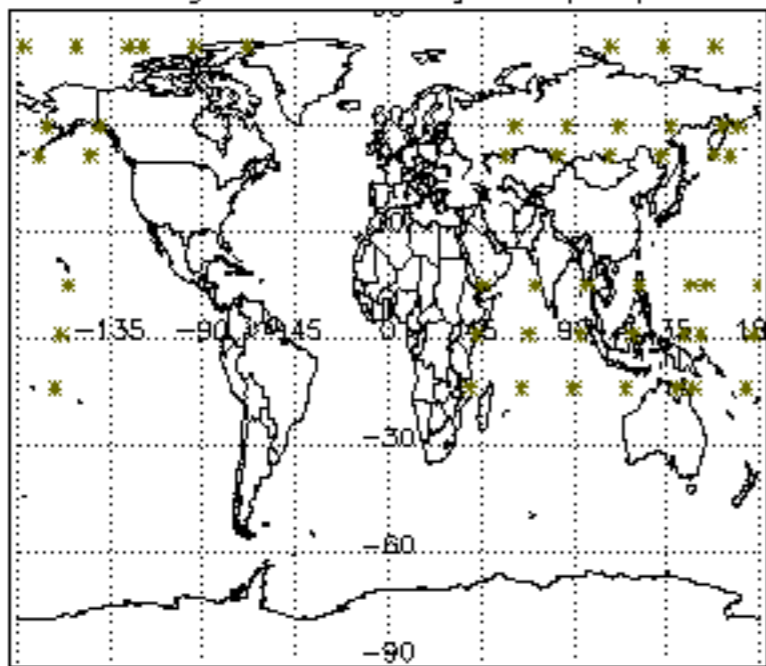
Percentage of star falling outside central band per profile



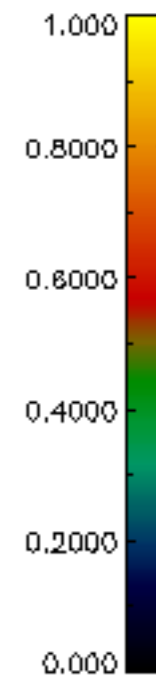
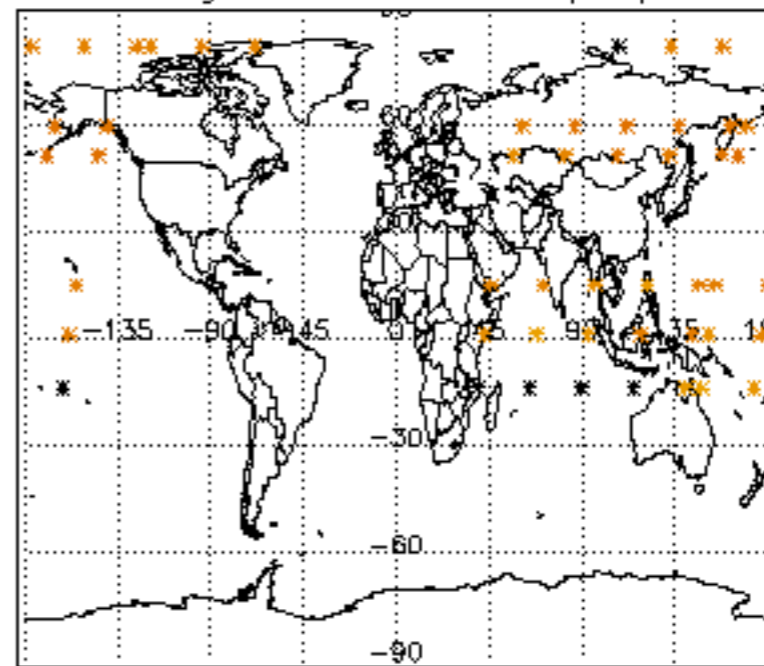
Percentage of saturation errors per profile



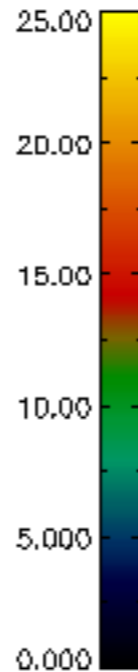
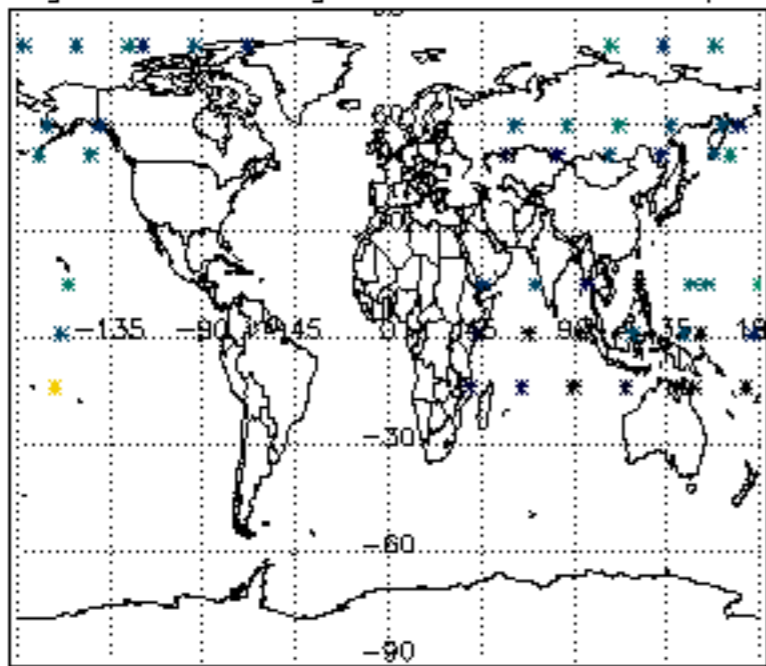
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

