

# 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	24APR2013 01:50:50
Data source version	GOMOS/6.01
Start time of products	16-07-2006 (16JUL2006 00:00:00)
Stop time of products	17-07-2006 (17JUL2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	96
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__2PRFIN20060716_000400_000000412049_00274_22873_0010.N1	16-JUL-2006 00:04:00	Twilight	41.000	178	lot1Sco	3.0220	6550.0	82	22873	No
2	GOM_NL__2PRFIN20060716_000558_000000422049_00274_22873_0011.N1	16-JUL-2006 00:05:58	Bright	42.000	103	38Zet Sgr	2.6000	9700.0	84	22873	No
3	GOM_NL__2PRFIN20060716_000738_000000392049_00274_22873_0012.N1	16-JUL-2006 00:07:38	Bright	38.500	137	22Lam Sgr	2.8240	4400.0	77	22873	No
4	GOM_NL__2PRFIN20060716_001625_000000362049_00274_22873_0013.N1	16-JUL-2006 00:16:25	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	22873	No
5	GOM_NL__2PRFIN20060716_001842_000000352049_00274_22873_0014.N1	16-JUL-2006 00:18:42	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	22873	No
6	GOM_NL__2PRFIN20060716_002436_000000362049_00274_22873_0015.N1	16-JUL-2006 00:24:36	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	22873	No
7	GOM_NL__2PRFIN20060716_002933_000000362049_00274_22873_0016.N1	16-JUL-2006 00:29:33	Bright	36.000	69	33Gam Dra	2.2310	3800.0	72	22873	No
8	GOM_NL__2PRFIN20060716_003246_000000362049_00274_22873_0017.N1	16-JUL-2006 00:32:46	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	22873	No
9	GOM_NL__2PRFIN20060716_003659_000000352049_00274_22873_0018.N1	16-JUL-2006 00:36:59	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	22873	No
10	GOM_NL__2PRFIN20060716_004033_000000322049_00274_22873_0019.N1	16-JUL-2006 00:40:33	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	22873	No
11	GOM_NL__2PRFIN20060716_010148_000000492049_00274_22873_0020.N1	16-JUL-2006 01:01:48	Twilight	49.000	13	87Alp Tau	0.86700	3800.0	98	22873	No
12	GOM_NL__2PRFIN20060716_010808_000000392049_00274_22873_0021.N1	16-JUL-2006 01:08:08	Dark	38.500	7	19Bet Ori	0.10000	14000.	77	22873	No
13	GOM_NL__2PRFIN20060716_012620_000000472049_00275_22874_0006.N1	16-JUL-2006 01:26:20	Dark	46.500	9	Alp Eri	0.45300	24000.	93	22874	No
14	GOM_NL__2PRFIN20060716_012953_000000372049_00275_22874_0007.N1	16-JUL-2006 01:29:53	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22874	No
15	GOM_NL__2PRFIN20060716_013351_000000422049_00275_22874_0008.N1	16-JUL-2006 01:33:51	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	22874	No
16	GOM_NL__2PRFIN20060716_013743_000000432049_00275_22874_0009.N1	16-JUL-2006 01:37:43	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	22874	No
17	GOM_NL__2PRFIN20060716_014436_000000382049_00275_22874_0010.N1	16-JUL-2006 01:44:36	Twilight	37.500	178	lot1Sco	3.0220	6550.0	75	22874	No
18	GOM_NL__2PRFIN20060716_014634_000000412049_00275_22874_0011.N1	16-JUL-2006 01:46:34	Bright	40.500	103	38Zet Sgr	2.6000	9700.0	81	22874	No
19	GOM_NL__2PRFIN20060716_014814_000000382049_00275_22874_0012.N1	16-JUL-2006 01:48:14	Bright	37.500	137	22Lam Sgr	2.8240	4400.0	75	22874	No
20	GOM_NL__2PRFIN20060716_015701_000000362049_00275_22874_0013.N1	16-JUL-2006 01:57:01	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	22874	No
21	GOM_NL__2PRFIN20060716_015918_000000372049_00275_22874_0014.N1	16-JUL-2006 01:59:18	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	22874	No
22	GOM_NL__2PRFIN20060716_020512_000000372049_00275_22874_0015.N1	16-JUL-2006 02:05:12	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	22874	No
23	GOM_NL__2PRFIN20060716_021009_000000362049_00275_22874_0016.N1	16-JUL-2006 02:10:09	Bright	36.000	69	33Gam Dra	2.2310	3800.0	72	22874	No
24	GOM_NL__2PRFIN20060716_021322_000000332049_00275_22874_0017.N1	16-JUL-2006 02:13:22	Bright	33.000	119	14Eta Dra	2.7270	4700.0	66	22874	No
25	GOM_NL__2PRFIN20060716_021735_000000362049_00275_22874_0018.N1	16-JUL-2006 02:17:35	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	22874	No
26	GOM_NL__2PRFIN20060716_022109_000000362049_00275_22874_0019.N1	16-JUL-2006 02:21:09	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	22874	No
27	GOM_NL__2PRFIN20060716_024224_000000542049_00275_22874_0020.N1	16-JUL-2006 02:42:24	Twilight	54.000	13	87Alp Tau	0.86700	3800.0	108	22874	No
28	GOM_NL__2PRFIN20060716_024844_000000392049_00275_22874_0021.N1	16-JUL-2006 02:48:44	Dark	38.500	7	19Bet Ori	0.10000	14000.	77	22874	No
29	GOM_NL__2PRFIN20060716_025202_000000372049_00275_22874_0022.N1	16-JUL-2006 02:52:02	Dark	37.000	139	9Bet Lep	2.8330	5600.0	74	22874	No
30	GOM_NL__2PRFIN20060716_030657_000000532049_00276_22875_0007.N1	16-JUL-2006 03:06:57	Dark	52.500	9	Alp Eri	0.45300	24000.	105	22875	No
31	GOM_NL__2PRFIN20060716_031029_000000362049_00276_22875_0008.N1	16-JUL-2006 03:10:29	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	22875	No
32	GOM_NL__2PRFIN20060716_031428_000000432049_00276_22875_0009.N1	16-JUL-2006 03:14:28	Straylight	43.000	148	Alp Tuc	2.8780	4100.0	86	22875	No
33	GOM_NL__2PRFIN20060716_031820_000000402049_00276_22875_0010.N1	16-JUL-2006 03:18:20	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	22875	No
34	GOM_NL__2PRFIN20060716_032512_000000392049_00276_22875_0011.N1	16-JUL-2006 03:25:12	Twilight	39.000	178	lot1Sco	3.0220	6550.0	78	22875	No
35	GOM_NL__2PRFIN20060716_032710_000000422049_00276_22875_0012.N1	16-JUL-2006 03:27:10	Bright	41.500	103	38Zet Sgr	2.6000	9700.0	83	22875	No
36	GOM_NL__2PRFIN20060716_032850_000000382049_00276_22875_0013.N1	16-JUL-2006 03:28:50	Bright	38.000	137	22Lam Sgr	2.8240	4400.0	76	22875	No
37	GOM_NL__2PRFIN20060716_033737_000000362049_00276_22875_0014.N1	16-JUL-2006 03:37:37	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	22875	No
38	GOM_NL__2PRFIN20060716_033954_000000352049_00276_22875_0015.N1	16-JUL-2006 03:39:54	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	22875	No
39	GOM_NL__2PRFIN20060716_034548_000000352049_00276_22875_0016.N1	16-JUL-2006 03:45:48	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	22875	No
40	GOM_NL__2PRFIN20060716_035045_000000352049_00276_22875_0017.N1	16-JUL-2006 03:50:45	Bright	35.000	69	33Gam Dra	2.2310	3800.0	70	22875	No
41	GOM_NL__2PRFIN20060716_035358_000000342049_00276_22875_0018.N1	16-JUL-2006 03:53:58	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	22875	No
42	GOM_NL__2PRFIN20060716_035811_000000332049_00276_22875_0019.N1	16-JUL-2006 03:58:11	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	22875	No

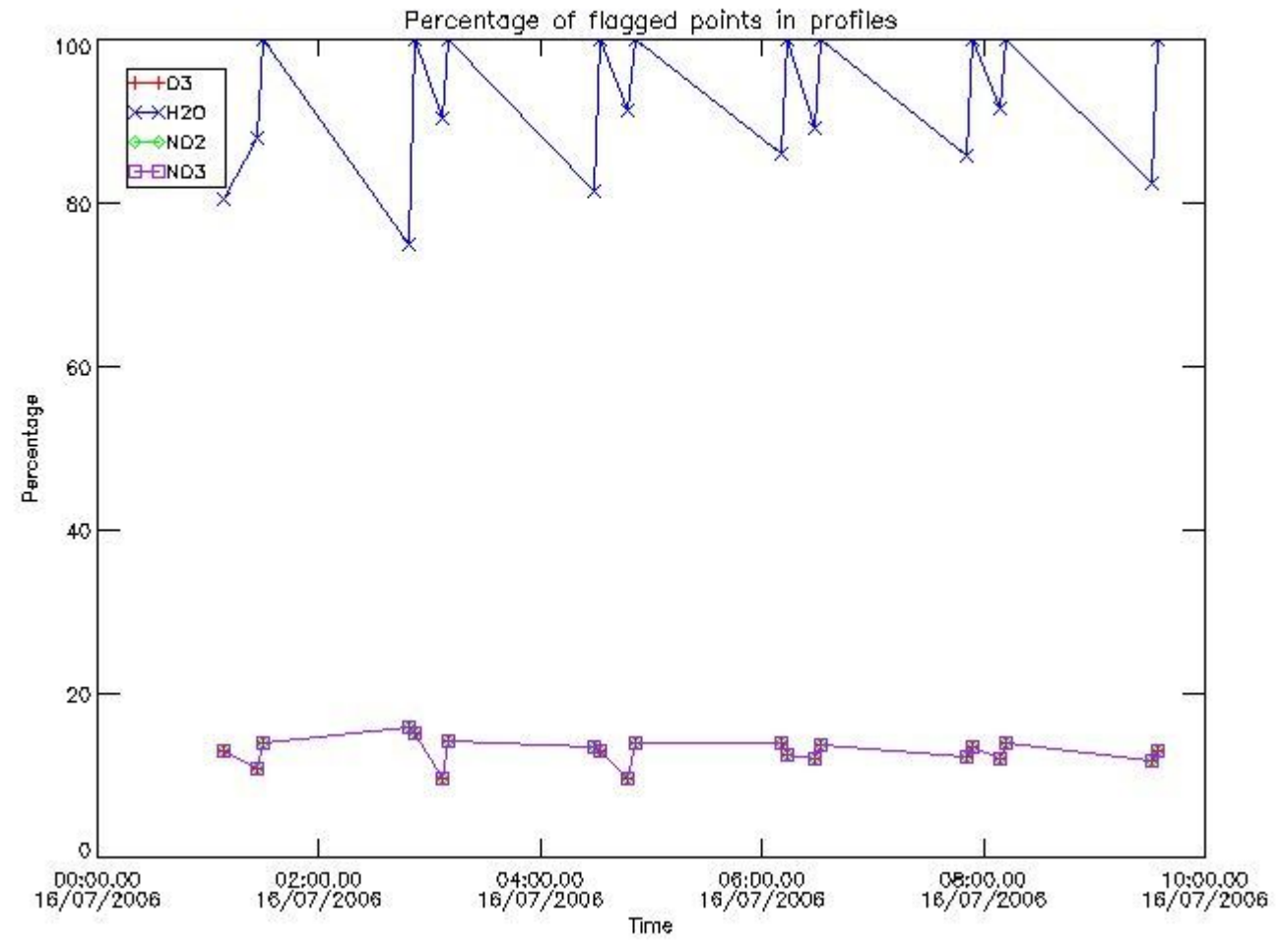
43	GOM_NL_2PRFIN20060716_040145_000000352049_00276_22875_0020.N1	16-JUL-2006 04:01:45	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	22875	No
44	GOM_NL_2PRFIN20060716_042301_000000502049_00276_22875_0021.N1	16-JUL-2006 04:23:01	Twilight	50.000	13	87Alp Tau	0.86700	3800.0	100	22875	No
45	GOM_NL_2PRFIN20060716_042920_000000382049_00276_22875_0022.N1	16-JUL-2006 04:29:20	Dark	38.000	7	19Bet Ori	0.10000	14000.	76	22875	No
46	GOM_NL_2PRFIN20060716_043238_000000402049_00276_22875_0023.N1	16-JUL-2006 04:32:38	Dark	39.500	139	9Bet Lep	2.8330	5600.0	79	22875	No
47	GOM_NL_2PRFIN20060716_044734_000000532049_00277_22876_0007.N1	16-JUL-2006 04:47:34	Dark	52.500	9	Alp Eri	0.45300	24000.	105	22876	No
48	GOM_NL_2PRFIN20060716_045105_000000372049_00277_22876_0008.N1	16-JUL-2006 04:51:05	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22876	No
49	GOM_NL_2PRFIN20060716_045504_000000402049_00277_22876_0009.N1	16-JUL-2006 04:55:04	Straylight	40.000	148	Alp Tuc	2.8780	4100.0	80	22876	No
50	GOM_NL_2PRFIN20060716_045856_000000402049_00277_22876_0010.N1	16-JUL-2006 04:58:56	Straylight	39.500	45	Alp Pav	1.9400	26000.	79	22876	No
51	GOM_NL_2PRFIN20060716_050548_000000392049_00277_22876_0011.N1	16-JUL-2006 05:05:48	Twilight_and_stray	38.500	178	lot1Sco	3.0220	6550.0	77	22876	No
52	GOM_NL_2PRFIN20060716_050747_000000412049_00277_22876_0012.N1	16-JUL-2006 05:07:47	Bright	41.000	103	38Zet Sgr	2.6000	9700.0	82	22876	No
53	GOM_NL_2PRFIN20060716_050927_000000382049_00277_22876_0013.N1	16-JUL-2006 05:09:27	Bright	38.000	137	22Lam Sgr	2.8240	4400.0	76	22876	No
54	GOM_NL_2PRFIN20060716_051813_000000352049_00277_22876_0014.N1	16-JUL-2006 05:18:13	Bright	34.500	126	60Bet Oph	2.7700	4250.0	69	22876	No
55	GOM_NL_2PRFIN20060716_052030_000000352049_00277_22876_0015.N1	16-JUL-2006 05:20:30	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	22876	No
56	GOM_NL_2PRFIN20060716_052624_000000352049_00277_22876_0016.N1	16-JUL-2006 05:26:24	Bright	34.500	133	40Zet Her	2.8070	6000.0	69	22876	No
57	GOM_NL_2PRFIN20060716_053121_000000382049_00277_22876_0017.N1	16-JUL-2006 05:31:21	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	22876	No
58	GOM_NL_2PRFIN20060716_053434_000000362049_00277_22876_0018.N1	16-JUL-2006 05:34:34	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	22876	No
59	GOM_NL_2PRFIN20060716_053847_000000362049_00277_22876_0019.N1	16-JUL-2006 05:38:47	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	22876	No
60	GOM_NL_2PRFIN20060716_054221_000000332049_00277_22876_0020.N1	16-JUL-2006 05:42:21	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	22876	No
61	GOM_NL_2PRFIN20060716_060337_000000492049_00277_22876_0021.N1	16-JUL-2006 06:03:37	Twilight	49.000	13	87Alp Tau	0.86700	3800.0	98	22876	No
62	GOM_NL_2PRFIN20060716_060956_000000372049_00277_22876_0022.N1	16-JUL-2006 06:09:56	Dark	36.500	7	19Bet Ori	0.10000	14000.	73	22876	No
63	GOM_NL_2PRFIN20060716_061314_000000412049_00277_22876_0023.N1	16-JUL-2006 06:13:14	Dark	40.500	139	9Bet Lep	2.8330	5600.0	81	22876	No
64	GOM_NL_2PRFIN20060716_062810_000000422049_00278_22877_0007.N1	16-JUL-2006 06:28:10	Dark	42.000	9	Alp Eri	0.45300	24000.	84	22877	No
65	GOM_NL_2PRFIN20060716_063141_000000372049_00278_22877_0008.N1	16-JUL-2006 06:31:41	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	22877	No
66	GOM_NL_2PRFIN20060716_063541_000000412049_00278_22877_0009.N1	16-JUL-2006 06:35:41	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	22877	No
67	GOM_NL_2PRFIN20060716_063933_000000392049_00278_22877_0010.N1	16-JUL-2006 06:39:33	Straylight	39.000	45	Alp Pav	1.9400	26000.	78	22877	No
68	GOM_NL_2PRFIN20060716_064624_000000422049_00278_22877_0011.N1	16-JUL-2006 06:46:24	Twilight_and_stray	41.500	178	lot1Sco	3.0220	6550.0	83	22877	No
69	GOM_NL_2PRFIN20060716_064823_000000462049_00278_22877_0012.N1	16-JUL-2006 06:48:23	Bright	45.500	103	38Zet Sgr	2.6000	9700.0	91	22877	No
70	GOM_NL_2PRFIN20060716_065003_000000382049_00278_22877_0013.N1	16-JUL-2006 06:50:03	Bright	37.500	137	22Lam Sgr	2.8240	4400.0	75	22877	No
71	GOM_NL_2PRFIN20060716_065849_000000352049_00278_22877_0014.N1	16-JUL-2006 06:58:49	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	22877	No
72	GOM_NL_2PRFIN20060716_070107_000000372049_00278_22877_0015.N1	16-JUL-2006 07:01:07	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	22877	No
73	GOM_NL_2PRFIN20060716_070701_000000372049_00278_22877_0016.N1	16-JUL-2006 07:07:01	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	22877	No
74	GOM_NL_2PRFIN20060716_071157_000000382049_00278_22877_0017.N1	16-JUL-2006 07:11:57	Bright	38.000	69	33Gam Dra	2.2310	3800.0	76	22877	No
75	GOM_NL_2PRFIN20060716_071510_000000362049_00278_22877_0018.N1	16-JUL-2006 07:15:10	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	22877	No
76	GOM_NL_2PRFIN20060716_071924_000000372049_00278_22877_0019.N1	16-JUL-2006 07:19:24	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	22877	No
77	GOM_NL_2PRFIN20060716_072257_000000352049_00278_22877_0020.N1	16-JUL-2006 07:22:57	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	22877	No
78	GOM_NL_2PRFIN20060716_074413_000000472049_00278_22877_0021.N1	16-JUL-2006 07:44:13	Twilight	46.500	13	87Alp Tau	0.86700	3800.0	93	22877	No
79	GOM_NL_2PRFIN20060716_075032_000000462049_00278_22877_0022.N1	16-JUL-2006 07:50:32	Dark	46.000	7	19Bet Ori	0.10000	14000.	92	22877	No
80	GOM_NL_2PRFIN20060716_075350_000000382049_00278_22877_0023.N1	16-JUL-2006 07:53:50	Dark	38.000	139	9Bet Lep	2.8330	5600.0	76	22877	No
81	GOM_NL_2PRFIN20060716_080847_000000432049_00279_22878_0007.N1	16-JUL-2006 08:08:47	Dark	42.500	9	Alp Eri	0.45300	24000.	85	22878	No
82	GOM_NL_2PRFIN20060716_081218_000000372049_00279_22878_0008.N1	16-JUL-2006 08:12:18	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22878	No
83	GOM_NL_2PRFIN20060716_081617_000000402049_00279_22878_0009.N1	16-JUL-2006 08:16:17	Straylight	39.500	148	Alp Tuc	2.8780	4100.0	79	22878	No
84	GOM_NL_2PRFIN20060716_082009_000000412049_00279_22878_0010.N1	16-JUL-2006 08:20:09	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	22878	No
85	GOM_NL_2PRFIN20060716_082812_000000422049_00279_22878_0011.N1	16-JUL-2006 08:28:12	Twilight_and_stray	41.500	38	20Eps Sgr	1.8360	11000.	83	22878	No
86	GOM_NL_2PRFIN20060716_083039_000000382049_00279_22878_0012.N1	16-JUL-2006 08:30:39	Bright	38.000	137	22Lam Sgr	2.8240	4400.0	76	22878	No
87	GOM_NL_2PRFIN20060716_083925_000000362049_00279_22878_0013.N1	16-JUL-2006 08:39:25	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	22878	No
88	GOM_NL_2PRFIN20060716_084143_000000372049_00279_22878_0014.N1	16-JUL-2006 08:41:43	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	22878	No
89	GOM_NL_2PRFIN20060716_084737_000000342049_00279_22878_0015.N1	16-JUL-2006 08:47:37	Bright	34.000	133	40Zet Her	2.8070	6000.0	68	22878	No
90	GOM_NL_2PRFIN20060716_085233_000000372049_00279_22878_0016.N1	16-JUL-2006 08:52:33	Bright	36.500	69	33Gam Dra	2.2310	3800.0	73	22878	No
91	GOM_NL_2PRFIN20060716_085547_000000362049_00279_22878_0017.N1	16-JUL-2006 08:55:47	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	22878	No
92	GOM_NL_2PRFIN20060716_090000_000000342049_00279_22878_0018.N1	16-JUL-2006 09:00:00	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	22878	No
93	GOM_NL_2PRFIN20060716_090333_000000362049_00279_22878_0019.N1	16-JUL-2006 09:03:33	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	22878	No
94	GOM_NL_2PRFIN20060716_092449_000000442049_00279_22878_0020.N1	16-JUL-2006 09:24:49	Twilight	44.000	13	87Alp Tau	0.86700	3800.0	88	22878	No
95	GOM_NL_2PRFIN20060716_093109_000000432049_00279_22878_0021.N1	16-JUL-2006 09:31:09	Dark	43.000	7	19Bet Ori	0.10000	14000.	86	22878	No
96	GOM_NL_2PRFIN20060716_093426_000000392049_00279_22878_0022.N1	16-JUL-2006 09:34:26	Dark	39.000	139	9Bet Lep	2.8330	5600.0	78	22878	No

### 3. Quality information per product

In this section it is plotted some information contained in the Quality Summary data set of

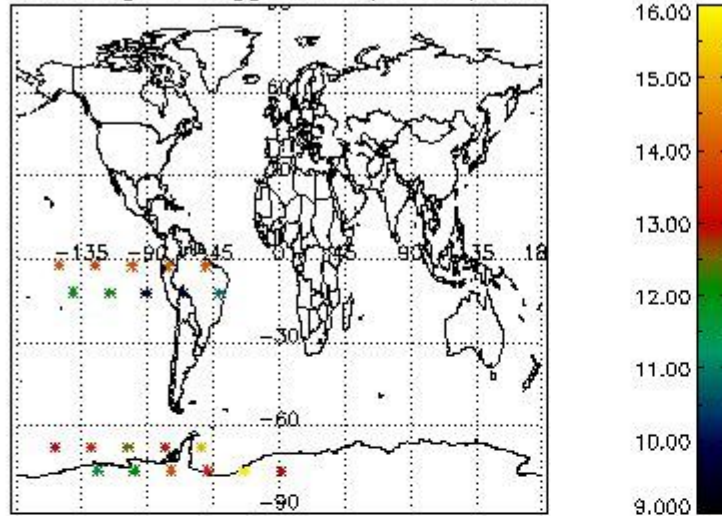
the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

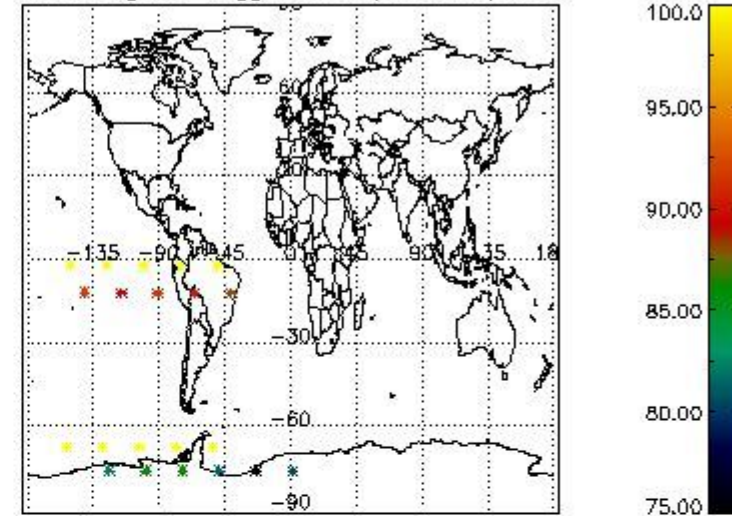


3.2 Plot quality information per product (world map)

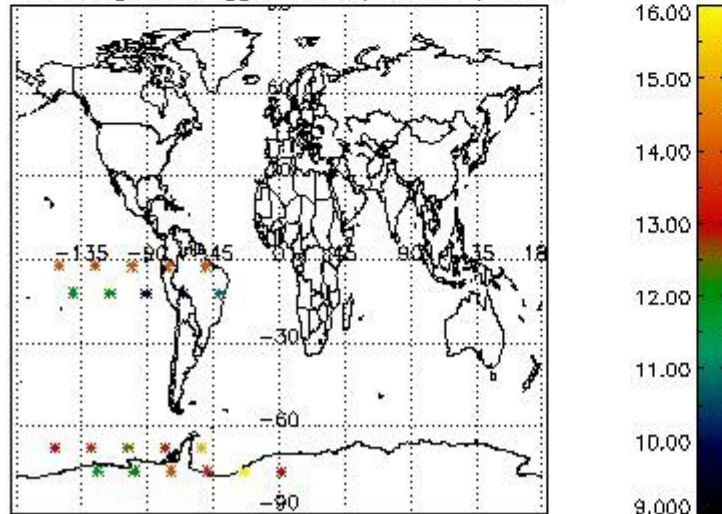
Percentage of flagged data per O3 profile



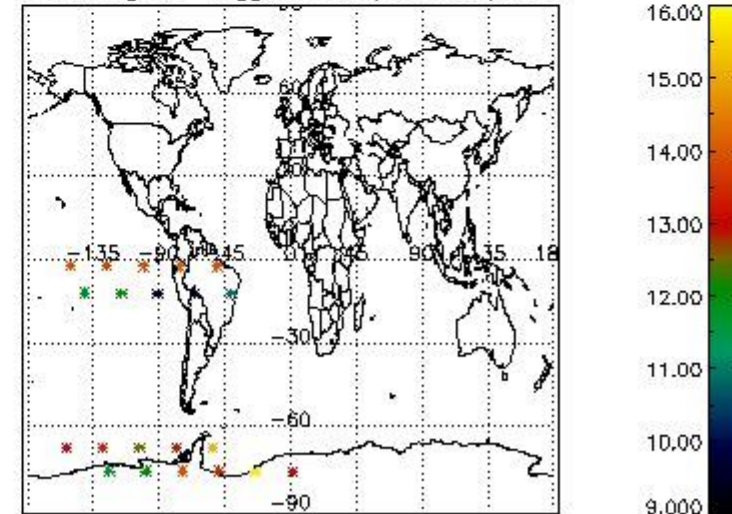
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

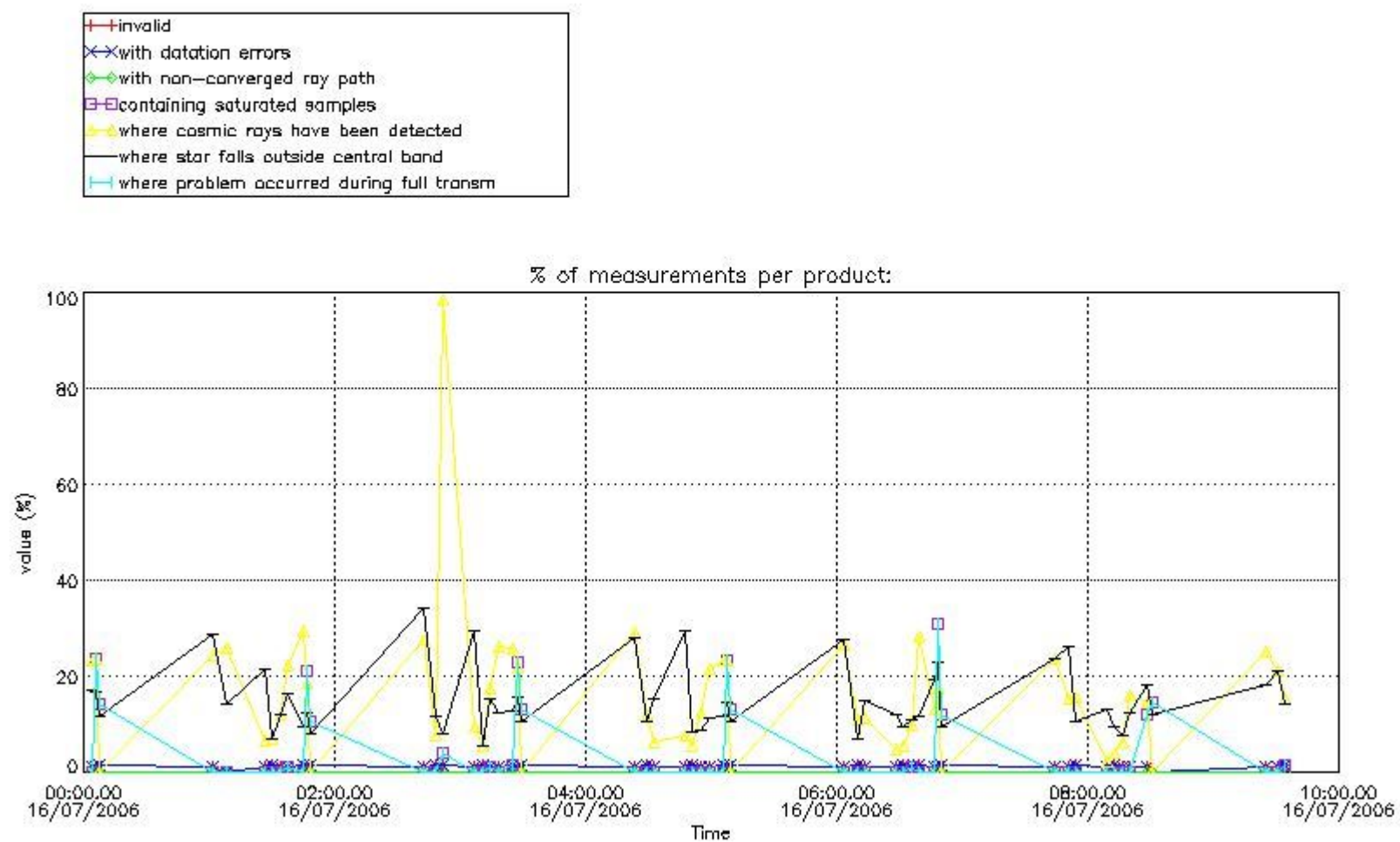


#### 4. Level 1 quality information per product

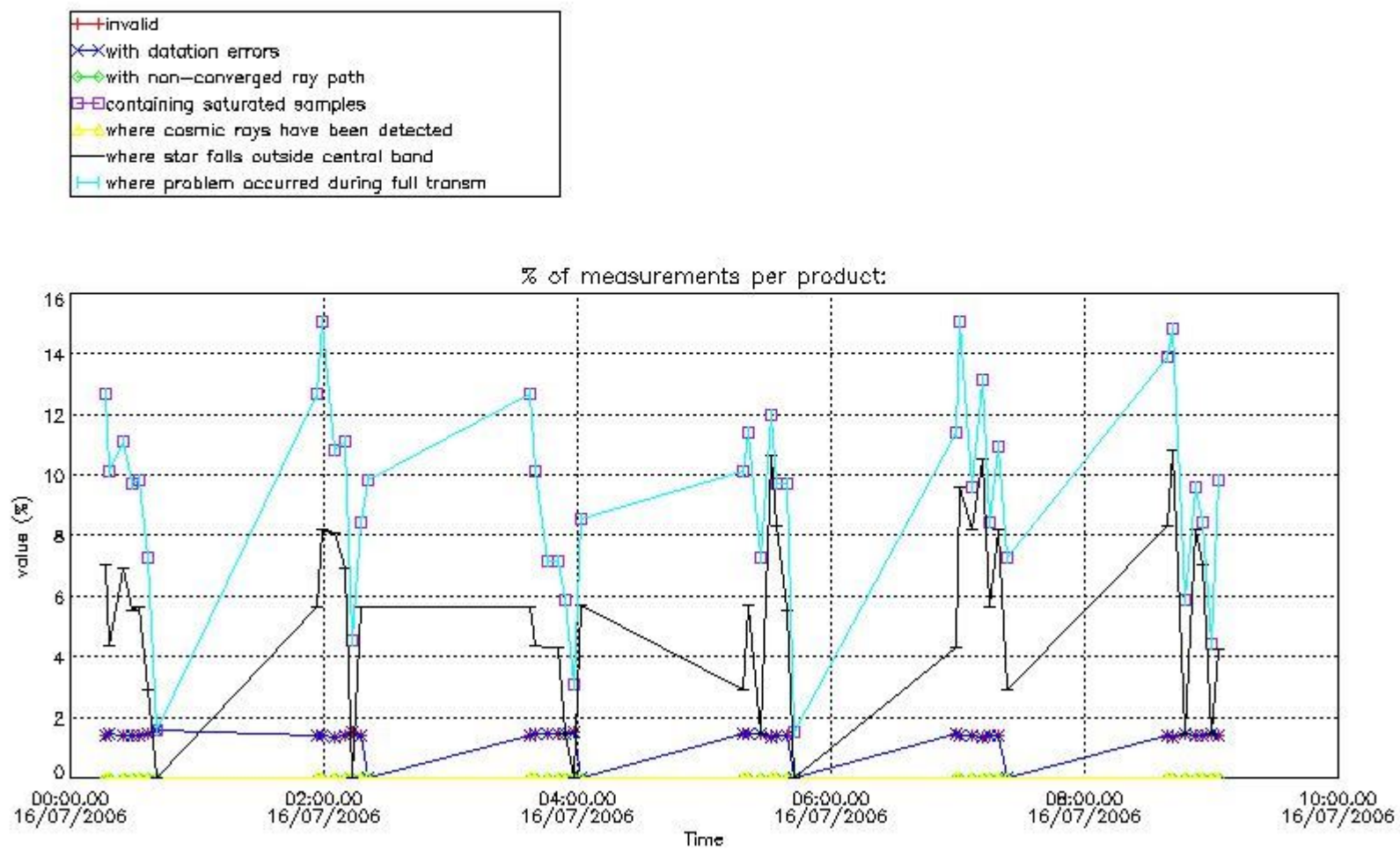
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



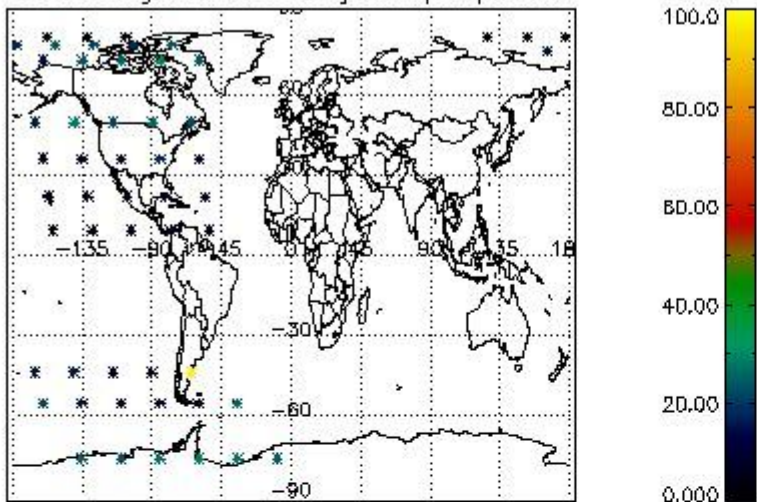
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



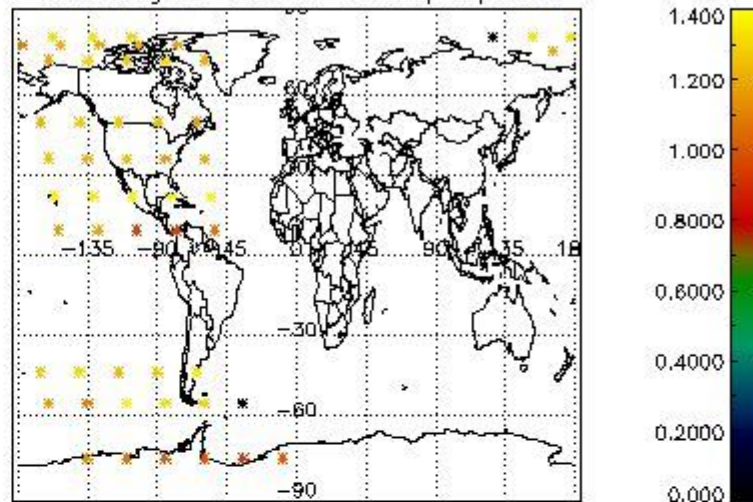
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

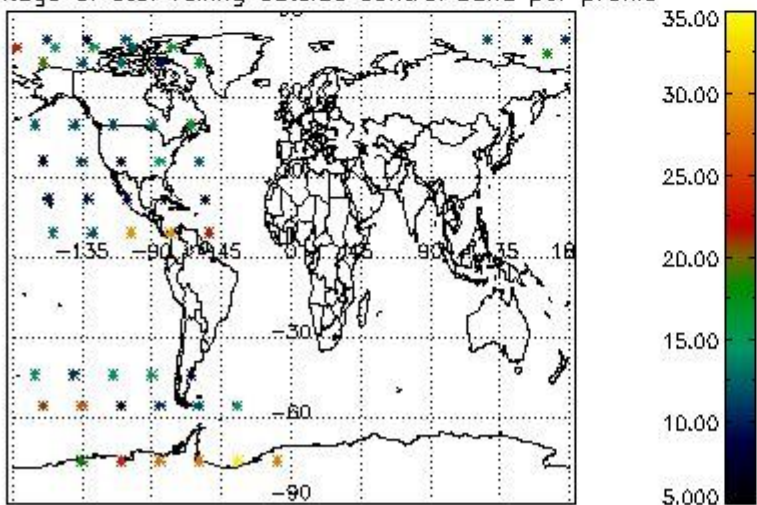
Percentage of cosmic ray hits per profile



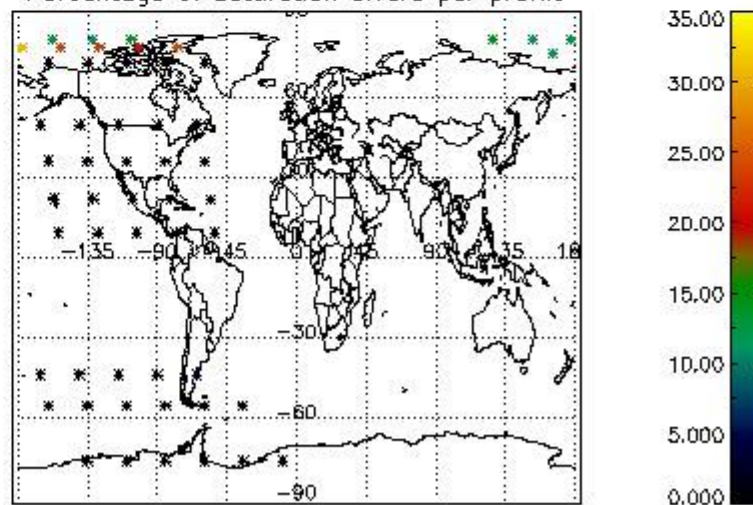
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

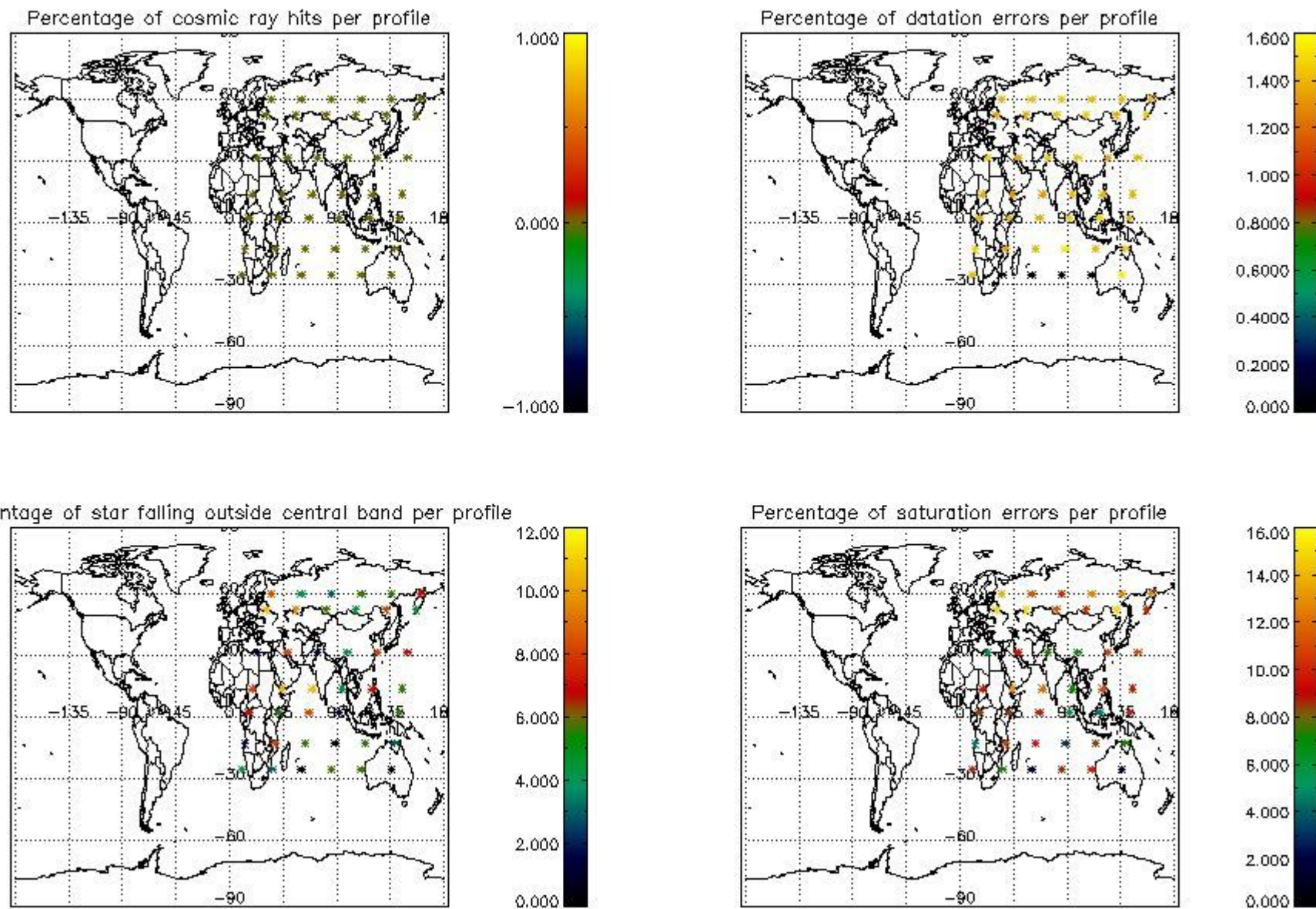


Percentage of saturation errors per profile



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

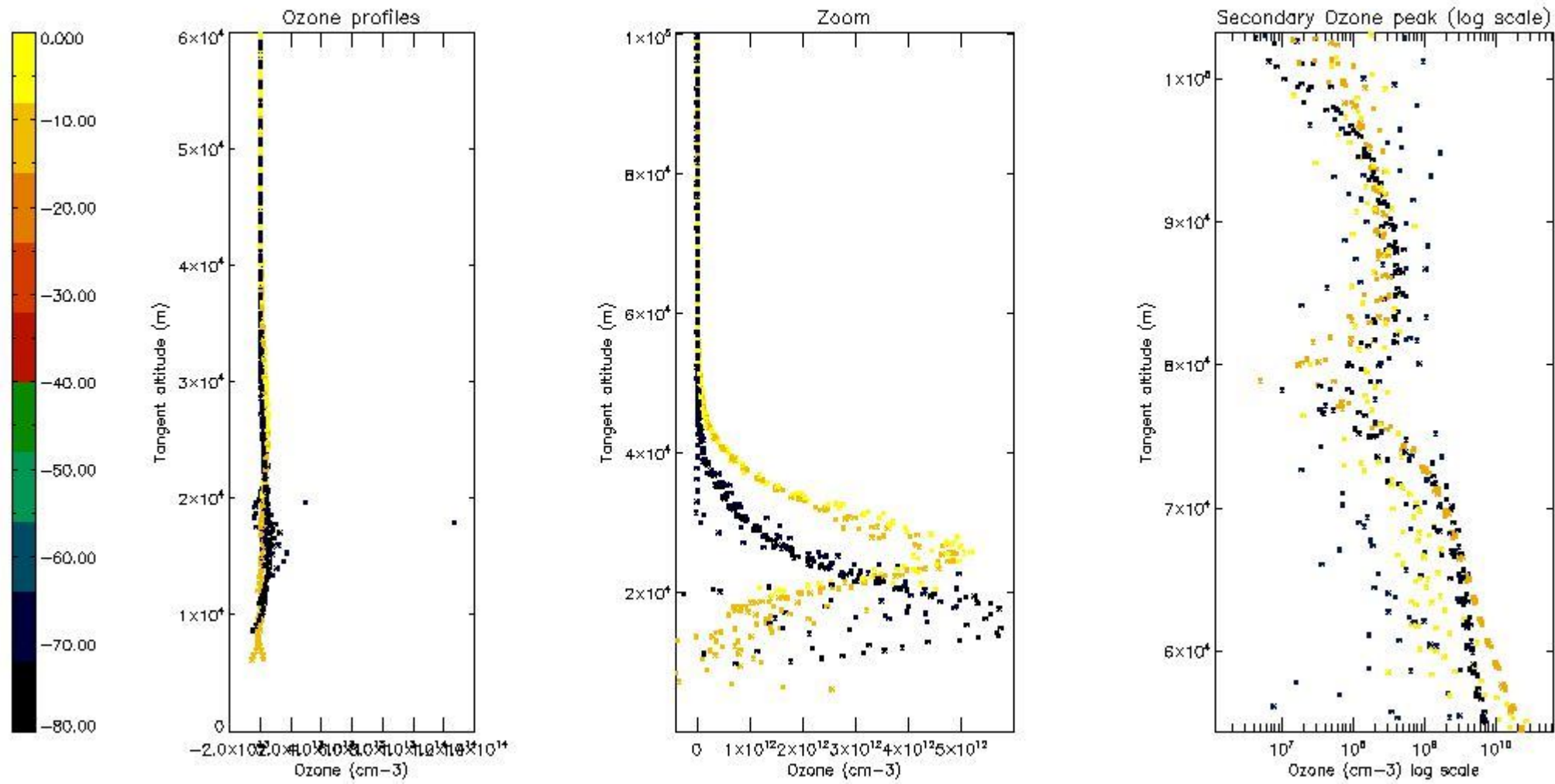
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	24
STD < 20	13

STD < 10	10
STD < 5	8

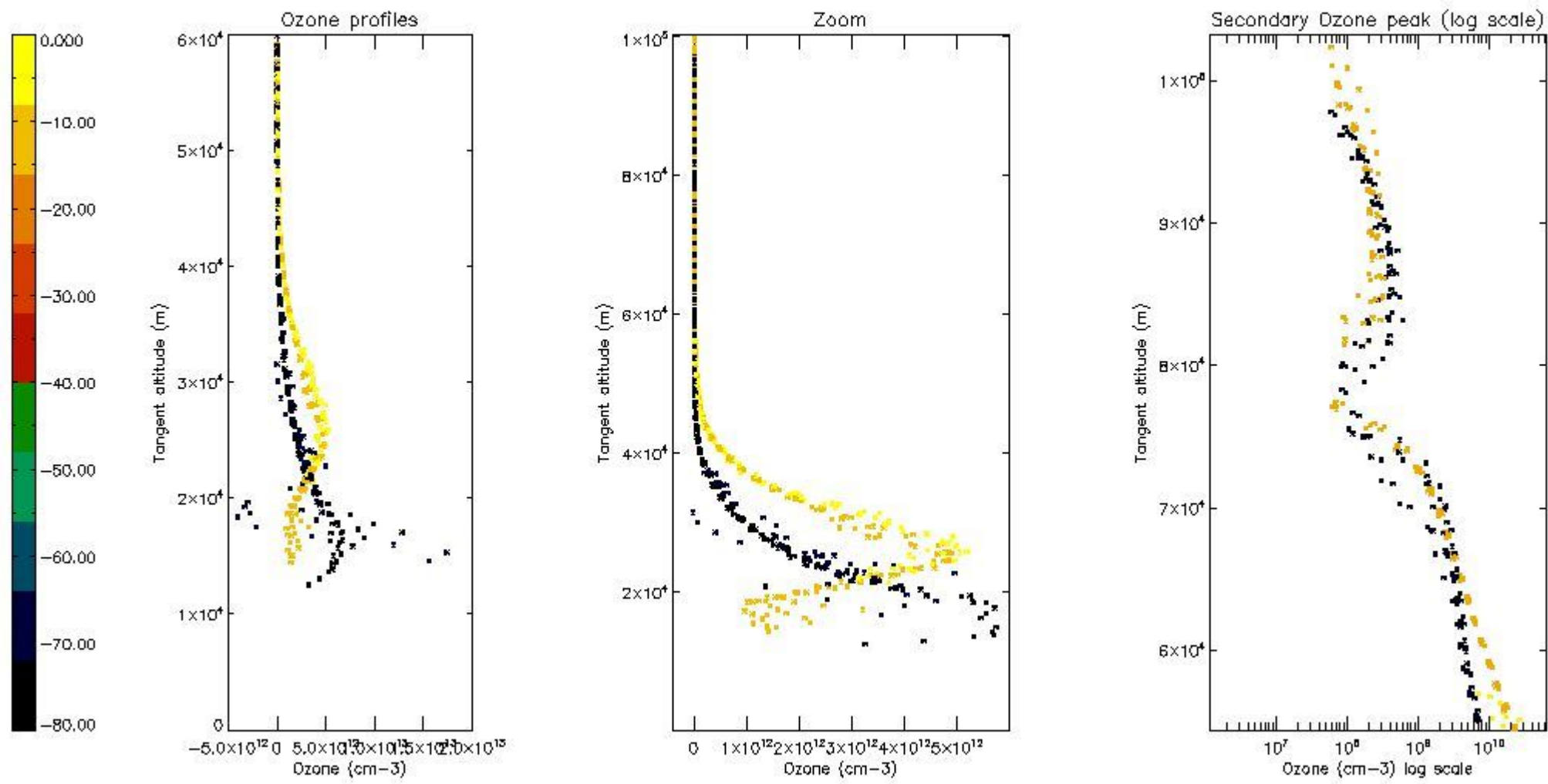
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



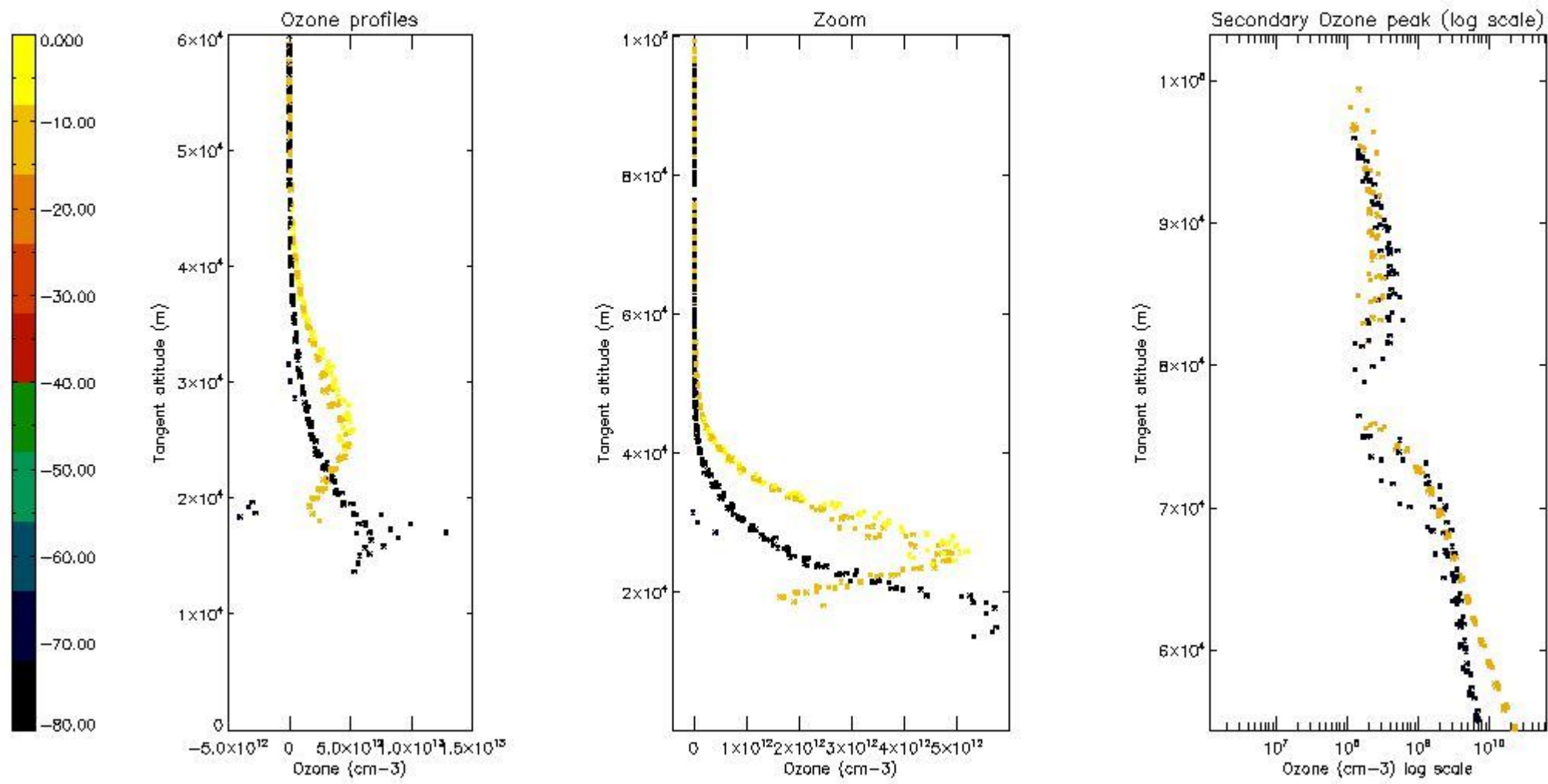
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



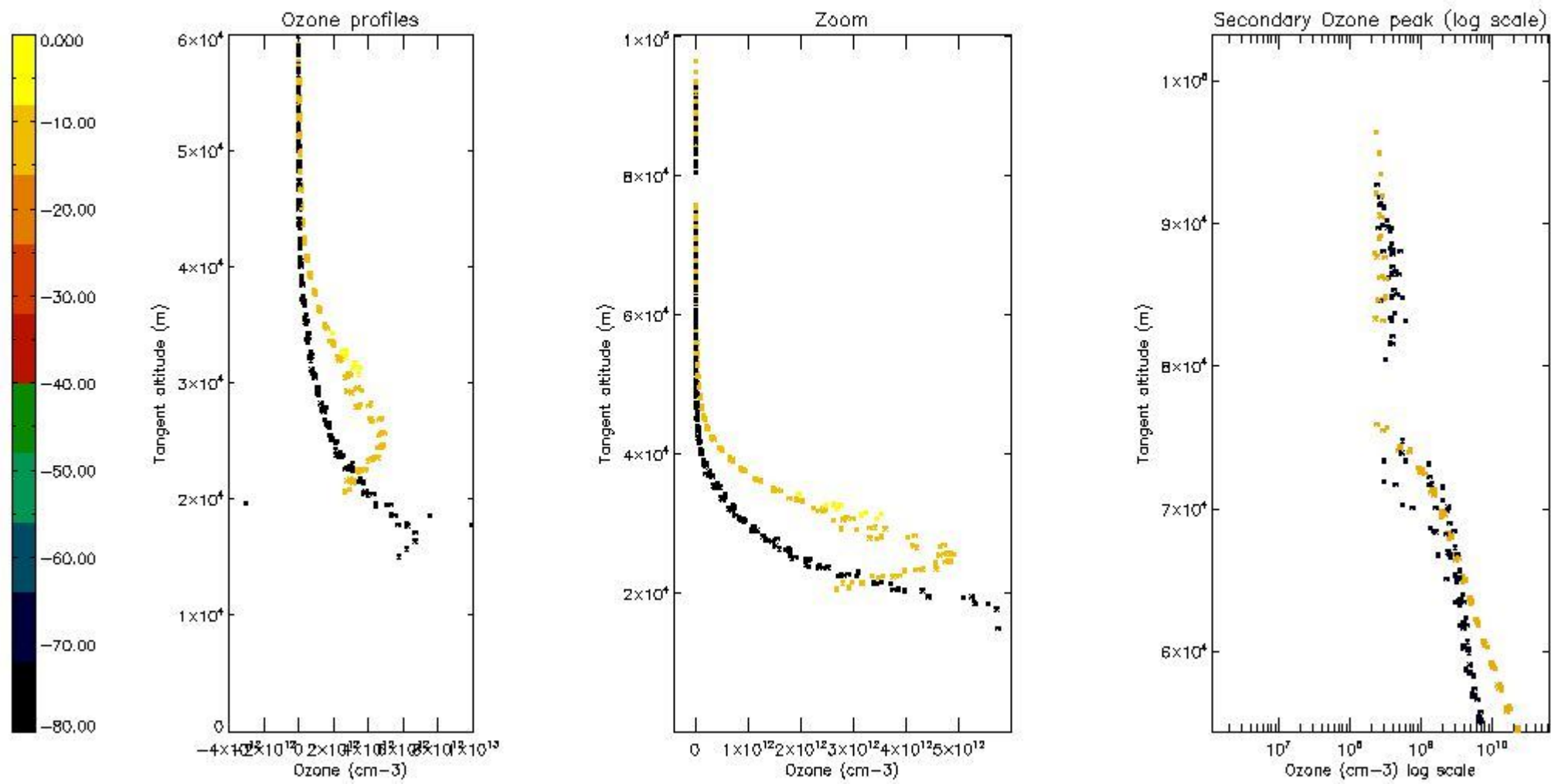
*5.4 Plot ozone profiles where  $\text{STD} < 10\%$  (dark without errors)*

The colorbar represents the latitude.



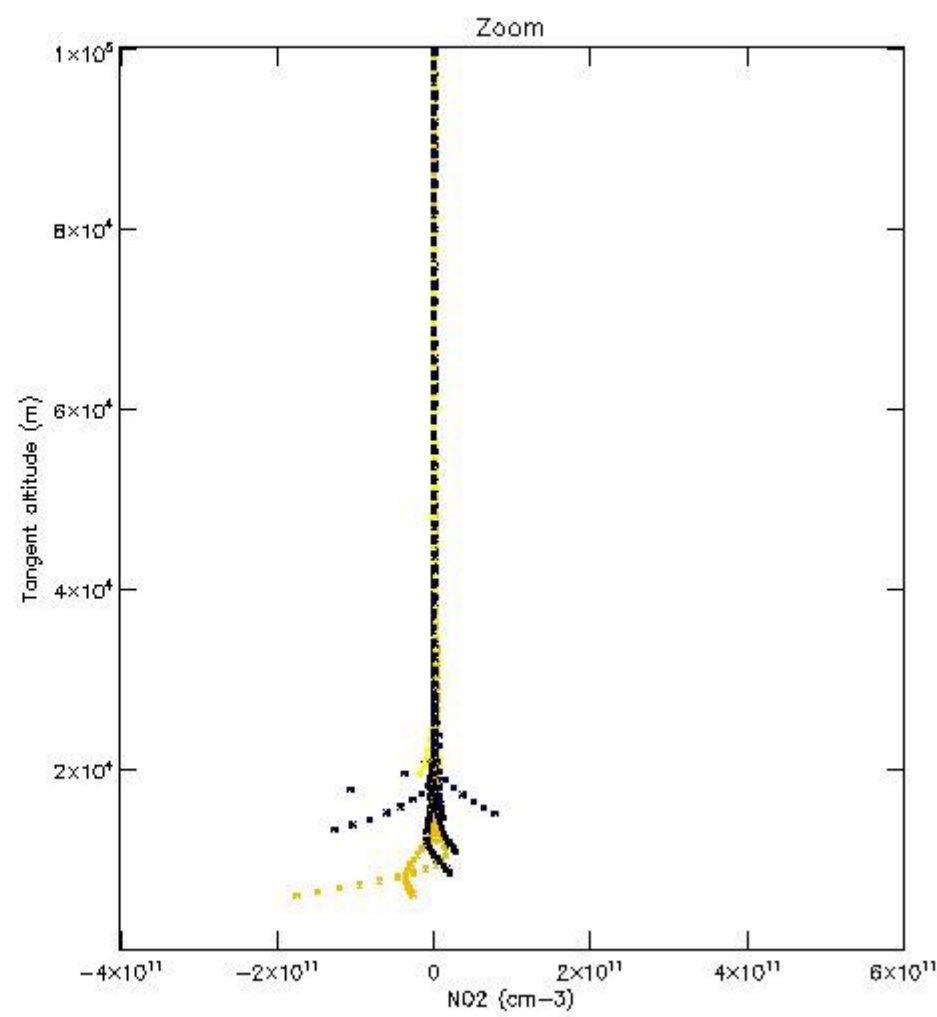
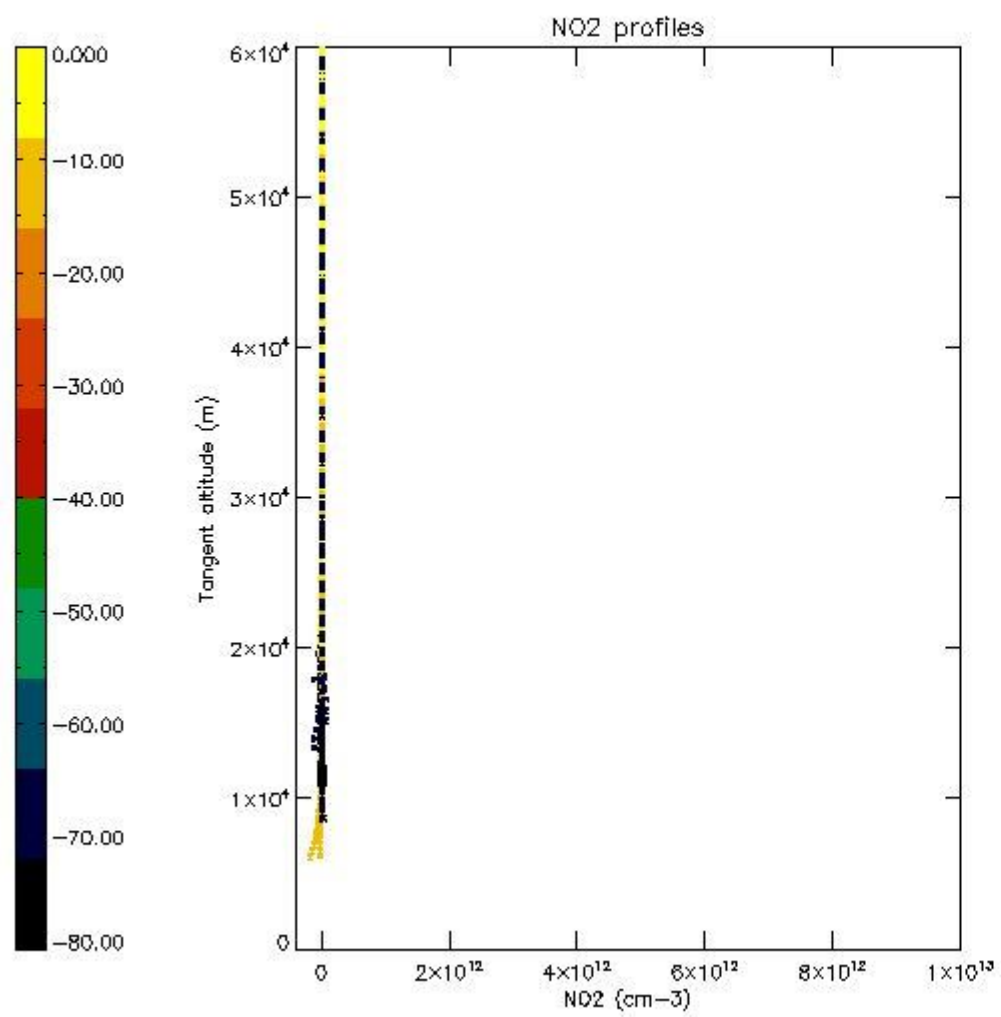
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



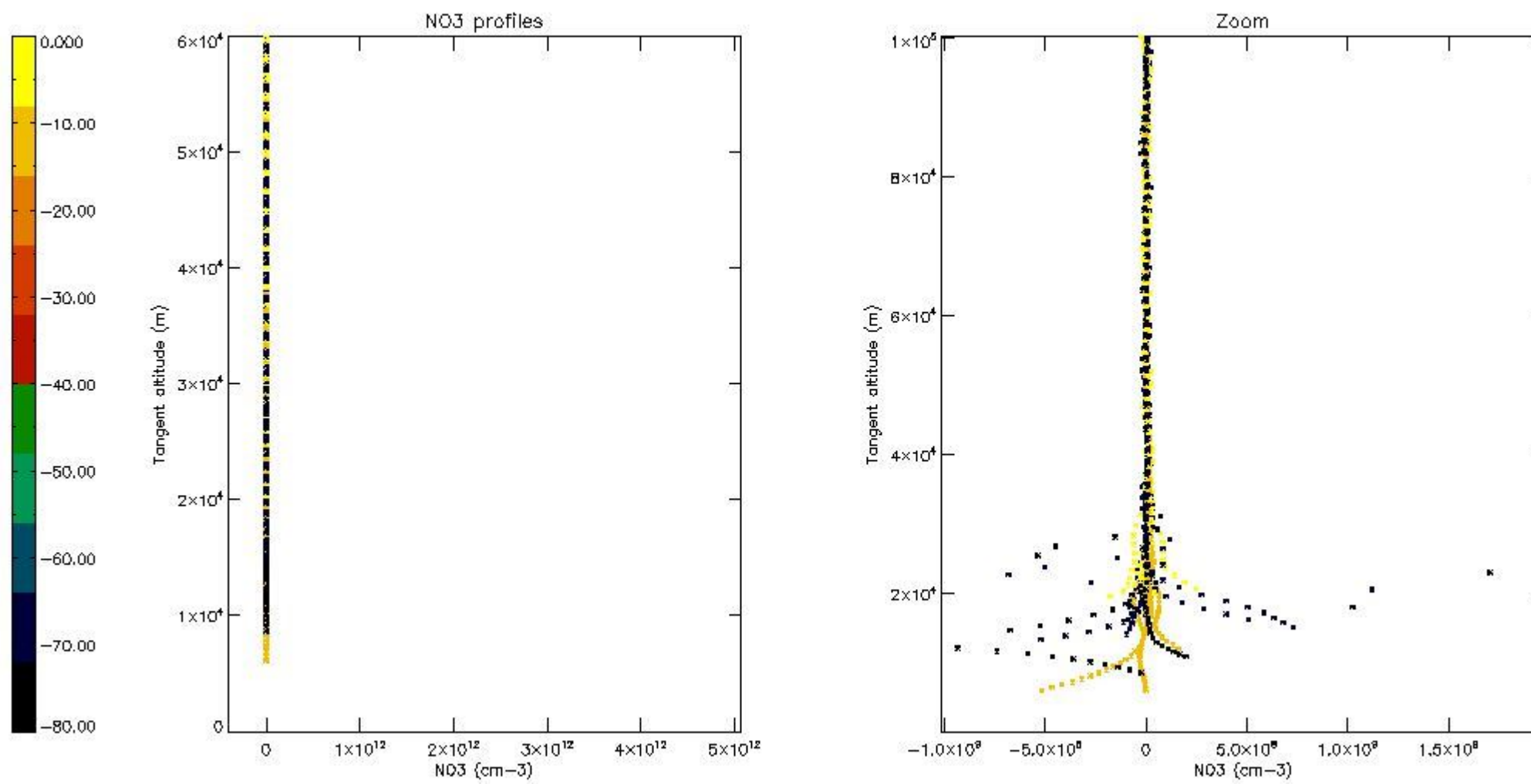
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

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	16-JUL-2006 00:04:00
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	16-JUL-2006 00:04:00
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	16-JUL-2006 00:04:00

# GOMOS Level 2 Daily Report

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#### [5.1 Ozone statistics based on quality of products](#)

#### [5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

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#### [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	24APR2013 01:50:50
Data source version	GOMOS/6.01
Start time of products	16-07-2006 (16JUL2006 00:00:00)
Stop time of products	17-07-2006 (17JUL2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	96
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__2PRFIN20060716_000400_000000412049_00274_22873_0010.N1	16-JUL-2006 00:04:00	Twilight	41.000	178	lot1Sco	3.0220	6550.0	82	22873	No
2	GOM_NL__2PRFIN20060716_000558_000000422049_00274_22873_0011.N1	16-JUL-2006 00:05:58	Bright	42.000	103	38Zet Sgr	2.6000	9700.0	84	22873	No
3	GOM_NL__2PRFIN20060716_000738_000000392049_00274_22873_0012.N1	16-JUL-2006 00:07:38	Bright	38.500	137	22Lam Sgr	2.8240	4400.0	77	22873	No
4	GOM_NL__2PRFIN20060716_001625_000000362049_00274_22873_0013.N1	16-JUL-2006 00:16:25	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	22873	No
5	GOM_NL__2PRFIN20060716_001842_000000352049_00274_22873_0014.N1	16-JUL-2006 00:18:42	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	22873	No
6	GOM_NL__2PRFIN20060716_002436_000000362049_00274_22873_0015.N1	16-JUL-2006 00:24:36	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	22873	No
7	GOM_NL__2PRFIN20060716_002933_000000362049_00274_22873_0016.N1	16-JUL-2006 00:29:33	Bright	36.000	69	33Gam Dra	2.2310	3800.0	72	22873	No
8	GOM_NL__2PRFIN20060716_003246_000000362049_00274_22873_0017.N1	16-JUL-2006 00:32:46	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	22873	No
9	GOM_NL__2PRFIN20060716_003659_000000352049_00274_22873_0018.N1	16-JUL-2006 00:36:59	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	22873	No
10	GOM_NL__2PRFIN20060716_004033_000000322049_00274_22873_0019.N1	16-JUL-2006 00:40:33	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	22873	No
11	GOM_NL__2PRFIN20060716_010148_000000492049_00274_22873_0020.N1	16-JUL-2006 01:01:48	Twilight	49.000	13	87Alp Tau	0.86700	3800.0	98	22873	No
12	GOM_NL__2PRFIN20060716_010808_000000392049_00274_22873_0021.N1	16-JUL-2006 01:08:08	Dark	38.500	7	19Bet Ori	0.10000	14000.	77	22873	No
13	GOM_NL__2PRFIN20060716_012620_000000472049_00275_22874_0006.N1	16-JUL-2006 01:26:20	Dark	46.500	9	Alp Eri	0.45300	24000.	93	22874	No
14	GOM_NL__2PRFIN20060716_012953_000000372049_00275_22874_0007.N1	16-JUL-2006 01:29:53	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22874	No
15	GOM_NL__2PRFIN20060716_013351_000000422049_00275_22874_0008.N1	16-JUL-2006 01:33:51	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	22874	No
16	GOM_NL__2PRFIN20060716_013743_000000432049_00275_22874_0009.N1	16-JUL-2006 01:37:43	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	22874	No
17	GOM_NL__2PRFIN20060716_014436_000000382049_00275_22874_0010.N1	16-JUL-2006 01:44:36	Twilight	37.500	178	lot1Sco	3.0220	6550.0	75	22874	No
18	GOM_NL__2PRFIN20060716_014634_000000412049_00275_22874_0011.N1	16-JUL-2006 01:46:34	Bright	40.500	103	38Zet Sgr	2.6000	9700.0	81	22874	No
19	GOM_NL__2PRFIN20060716_014814_000000382049_00275_22874_0012.N1	16-JUL-2006 01:48:14	Bright	37.500	137	22Lam Sgr	2.8240	4400.0	75	22874	No
20	GOM_NL__2PRFIN20060716_015701_000000362049_00275_22874_0013.N1	16-JUL-2006 01:57:01	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	22874	No
21	GOM_NL__2PRFIN20060716_015918_000000372049_00275_22874_0014.N1	16-JUL-2006 01:59:18	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	22874	No
22	GOM_NL__2PRFIN20060716_020512_000000372049_00275_22874_0015.N1	16-JUL-2006 02:05:12	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	22874	No
23	GOM_NL__2PRFIN20060716_021009_000000362049_00275_22874_0016.N1	16-JUL-2006 02:10:09	Bright	36.000	69	33Gam Dra	2.2310	3800.0	72	22874	No
24	GOM_NL__2PRFIN20060716_021322_000000332049_00275_22874_0017.N1	16-JUL-2006 02:13:22	Bright	33.000	119	14Eta Dra	2.7270	4700.0	66	22874	No
25	GOM_NL__2PRFIN20060716_021735_000000362049_00275_22874_0018.N1	16-JUL-2006 02:17:35	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	22874	No
26	GOM_NL__2PRFIN20060716_022109_000000362049_00275_22874_0019.N1	16-JUL-2006 02:21:09	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	22874	No
27	GOM_NL__2PRFIN20060716_024224_000000542049_00275_22874_0020.N1	16-JUL-2006 02:42:24	Twilight	54.000	13	87Alp Tau	0.86700	3800.0	108	22874	No
28	GOM_NL__2PRFIN20060716_024844_000000392049_00275_22874_0021.N1	16-JUL-2006 02:48:44	Dark	38.500	7	19Bet Ori	0.10000	14000.	77	22874	No
29	GOM_NL__2PRFIN20060716_025202_000000372049_00275_22874_0022.N1	16-JUL-2006 02:52:02	Dark	37.000	139	9Bet Lep	2.8330	5600.0	74	22874	No
30	GOM_NL__2PRFIN20060716_030657_000000532049_00276_22875_0007.N1	16-JUL-2006 03:06:57	Dark	52.500	9	Alp Eri	0.45300	24000.	105	22875	No
31	GOM_NL__2PRFIN20060716_031029_000000362049_00276_22875_0008.N1	16-JUL-2006 03:10:29	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	22875	No
32	GOM_NL__2PRFIN20060716_031428_000000432049_00276_22875_0009.N1	16-JUL-2006 03:14:28	Straylight	43.000	148	Alp Tuc	2.8780	4100.0	86	22875	No
33	GOM_NL__2PRFIN20060716_031820_000000402049_00276_22875_0010.N1	16-JUL-2006 03:18:20	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	22875	No
34	GOM_NL__2PRFIN20060716_032512_000000392049_00276_22875_0011.N1	16-JUL-2006 03:25:12	Twilight	39.000	178	lot1Sco	3.0220	6550.0	78	22875	No
35	GOM_NL__2PRFIN20060716_032710_000000422049_00276_22875_0012.N1	16-JUL-2006 03:27:10	Bright	41.500	103	38Zet Sgr	2.6000	9700.0	83	22875	No
36	GOM_NL__2PRFIN20060716_032850_000000382049_00276_22875_0013.N1	16-JUL-2006 03:28:50	Bright	38.000	137	22Lam Sgr	2.8240	4400.0	76	22875	No
37	GOM_NL__2PRFIN20060716_033737_000000362049_00276_22875_0014.N1	16-JUL-2006 03:37:37	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	22875	No
38	GOM_NL__2PRFIN20060716_033954_000000352049_00276_22875_0015.N1	16-JUL-2006 03:39:54	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	22875	No
39	GOM_NL__2PRFIN20060716_034548_000000352049_00276_22875_0016.N1	16-JUL-2006 03:45:48	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	22875	No
40	GOM_NL__2PRFIN20060716_035045_000000352049_00276_22875_0017.N1	16-JUL-2006 03:50:45	Bright	35.000	69	33Gam Dra	2.2310	3800.0	70	22875	No
41	GOM_NL__2PRFIN20060716_035358_000000342049_00276_22875_0018.N1	16-JUL-2006 03:53:58	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	22875	No
42	GOM_NL__2PRFIN20060716_035811_000000332049_00276_22875_0019.N1	16-JUL-2006 03:58:11	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	22875	No

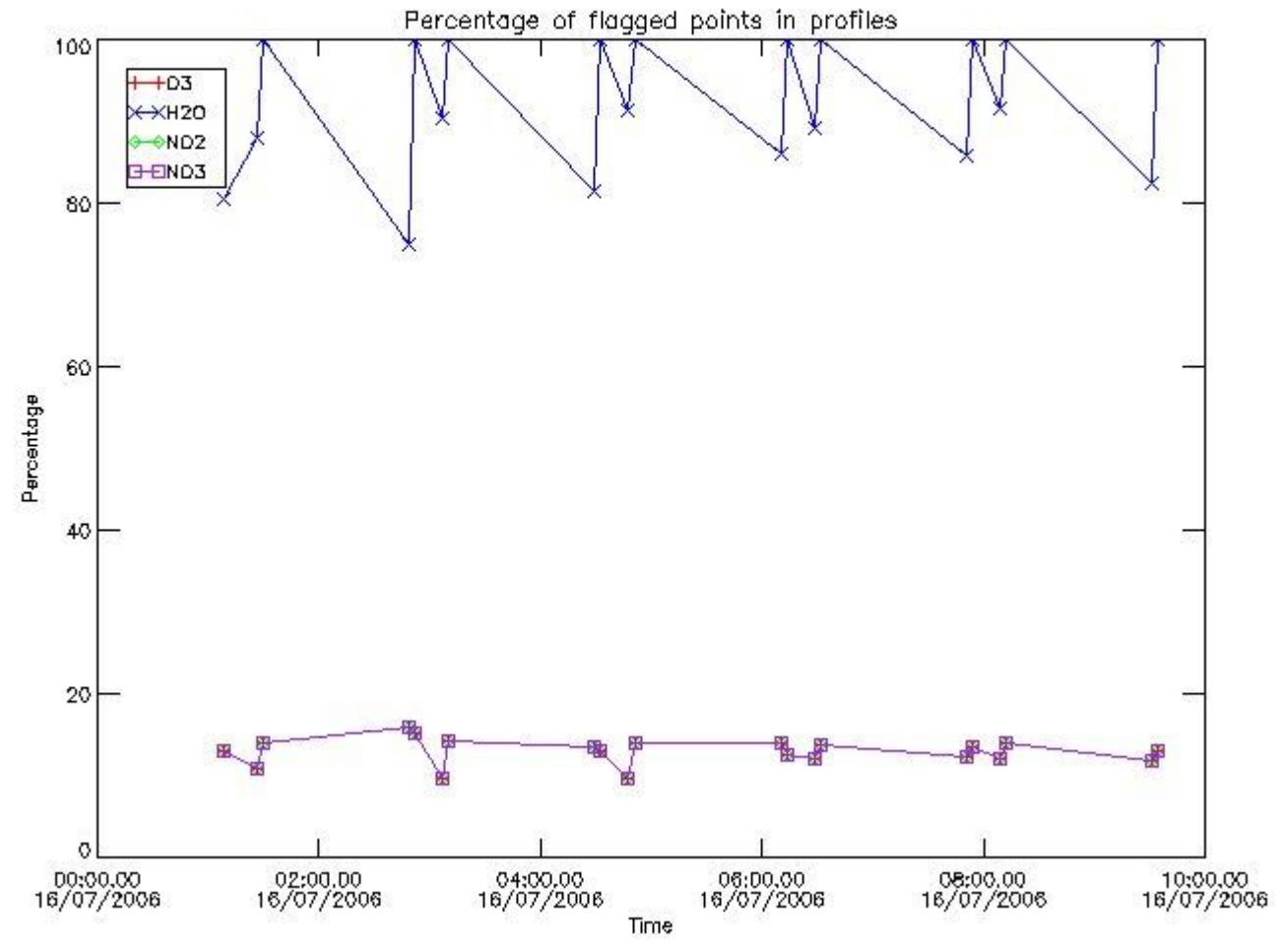
43	GOM_NL_2PRFIN20060716_040145_000000352049_00276_22875_0020.N1	16-JUL-2006 04:01:45	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	22875	No
44	GOM_NL_2PRFIN20060716_042301_000000502049_00276_22875_0021.N1	16-JUL-2006 04:23:01	Twilight	50.000	13	87Alp Tau	0.86700	3800.0	100	22875	No
45	GOM_NL_2PRFIN20060716_042920_000000382049_00276_22875_0022.N1	16-JUL-2006 04:29:20	Dark	38.000	7	19Bet Ori	0.10000	14000.	76	22875	No
46	GOM_NL_2PRFIN20060716_043238_000000402049_00276_22875_0023.N1	16-JUL-2006 04:32:38	Dark	39.500	139	9Bet Lep	2.8330	5600.0	79	22875	No
47	GOM_NL_2PRFIN20060716_044734_000000532049_00277_22876_0007.N1	16-JUL-2006 04:47:34	Dark	52.500	9	Alp Eri	0.45300	24000.	105	22876	No
48	GOM_NL_2PRFIN20060716_045105_000000372049_00277_22876_0008.N1	16-JUL-2006 04:51:05	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22876	No
49	GOM_NL_2PRFIN20060716_045504_000000402049_00277_22876_0009.N1	16-JUL-2006 04:55:04	Straylight	40.000	148	Alp Tuc	2.8780	4100.0	80	22876	No
50	GOM_NL_2PRFIN20060716_045856_000000402049_00277_22876_0010.N1	16-JUL-2006 04:58:56	Straylight	39.500	45	Alp Pav	1.9400	26000.	79	22876	No
51	GOM_NL_2PRFIN20060716_050548_000000392049_00277_22876_0011.N1	16-JUL-2006 05:05:48	Twilight_and_stray	38.500	178	lot1Sco	3.0220	6550.0	77	22876	No
52	GOM_NL_2PRFIN20060716_050747_000000412049_00277_22876_0012.N1	16-JUL-2006 05:07:47	Bright	41.000	103	38Zet Sgr	2.6000	9700.0	82	22876	No
53	GOM_NL_2PRFIN20060716_050927_000000382049_00277_22876_0013.N1	16-JUL-2006 05:09:27	Bright	38.000	137	22Lam Sgr	2.8240	4400.0	76	22876	No
54	GOM_NL_2PRFIN20060716_051813_000000352049_00277_22876_0014.N1	16-JUL-2006 05:18:13	Bright	34.500	126	60Bet Oph	2.7700	4250.0	69	22876	No
55	GOM_NL_2PRFIN20060716_052030_000000352049_00277_22876_0015.N1	16-JUL-2006 05:20:30	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	22876	No
56	GOM_NL_2PRFIN20060716_052624_000000352049_00277_22876_0016.N1	16-JUL-2006 05:26:24	Bright	34.500	133	40Zet Her	2.8070	6000.0	69	22876	No
57	GOM_NL_2PRFIN20060716_053121_000000382049_00277_22876_0017.N1	16-JUL-2006 05:31:21	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	22876	No
58	GOM_NL_2PRFIN20060716_053434_000000362049_00277_22876_0018.N1	16-JUL-2006 05:34:34	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	22876	No
59	GOM_NL_2PRFIN20060716_053847_000000362049_00277_22876_0019.N1	16-JUL-2006 05:38:47	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	22876	No
60	GOM_NL_2PRFIN20060716_054221_000000332049_00277_22876_0020.N1	16-JUL-2006 05:42:21	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	22876	No
61	GOM_NL_2PRFIN20060716_060337_000000492049_00277_22876_0021.N1	16-JUL-2006 06:03:37	Twilight	49.000	13	87Alp Tau	0.86700	3800.0	98	22876	No
62	GOM_NL_2PRFIN20060716_060956_000000372049_00277_22876_0022.N1	16-JUL-2006 06:09:56	Dark	36.500	7	19Bet Ori	0.10000	14000.	73	22876	No
63	GOM_NL_2PRFIN20060716_061314_000000412049_00277_22876_0023.N1	16-JUL-2006 06:13:14	Dark	40.500	139	9Bet Lep	2.8330	5600.0	81	22876	No
64	GOM_NL_2PRFIN20060716_062810_000000422049_00278_22877_0007.N1	16-JUL-2006 06:28:10	Dark	42.000	9	Alp Eri	0.45300	24000.	84	22877	No
65	GOM_NL_2PRFIN20060716_063141_000000372049_00278_22877_0008.N1	16-JUL-2006 06:31:41	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	22877	No
66	GOM_NL_2PRFIN20060716_063541_000000412049_00278_22877_0009.N1	16-JUL-2006 06:35:41	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	22877	No
67	GOM_NL_2PRFIN20060716_063933_000000392049_00278_22877_0010.N1	16-JUL-2006 06:39:33	Straylight	39.000	45	Alp Pav	1.9400	26000.	78	22877	No
68	GOM_NL_2PRFIN20060716_064624_000000422049_00278_22877_0011.N1	16-JUL-2006 06:46:24	Twilight_and_stray	41.500	178	lot1Sco	3.0220	6550.0	83	22877	No
69	GOM_NL_2PRFIN20060716_064823_000000462049_00278_22877_0012.N1	16-JUL-2006 06:48:23	Bright	45.500	103	38Zet Sgr	2.6000	9700.0	91	22877	No
70	GOM_NL_2PRFIN20060716_065003_000000382049_00278_22877_0013.N1	16-JUL-2006 06:50:03	Bright	37.500	137	22Lam Sgr	2.8240	4400.0	75	22877	No
71	GOM_NL_2PRFIN20060716_065849_000000352049_00278_22877_0014.N1	16-JUL-2006 06:58:49	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	22877	No
72	GOM_NL_2PRFIN20060716_070107_000000372049_00278_22877_0015.N1	16-JUL-2006 07:01:07	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	22877	No
73	GOM_NL_2PRFIN20060716_070701_000000372049_00278_22877_0016.N1	16-JUL-2006 07:07:01	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	22877	No
74	GOM_NL_2PRFIN20060716_071157_000000382049_00278_22877_0017.N1	16-JUL-2006 07:11:57	Bright	38.000	69	33Gam Dra	2.2310	3800.0	76	22877	No
75	GOM_NL_2PRFIN20060716_071510_000000362049_00278_22877_0018.N1	16-JUL-2006 07:15:10	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	22877	No
76	GOM_NL_2PRFIN20060716_071924_000000372049_00278_22877_0019.N1	16-JUL-2006 07:19:24	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	22877	No
77	GOM_NL_2PRFIN20060716_072257_000000352049_00278_22877_0020.N1	16-JUL-2006 07:22:57	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	22877	No
78	GOM_NL_2PRFIN20060716_074413_000000472049_00278_22877_0021.N1	16-JUL-2006 07:44:13	Twilight	46.500	13	87Alp Tau	0.86700	3800.0	93	22877	No
79	GOM_NL_2PRFIN20060716_075032_000000462049_00278_22877_0022.N1	16-JUL-2006 07:50:32	Dark	46.000	7	19Bet Ori	0.10000	14000.	92	22877	No
80	GOM_NL_2PRFIN20060716_075350_000000382049_00278_22877_0023.N1	16-JUL-2006 07:53:50	Dark	38.000	139	9Bet Lep	2.8330	5600.0	76	22877	No
81	GOM_NL_2PRFIN20060716_080847_000000432049_00279_22878_0007.N1	16-JUL-2006 08:08:47	Dark	42.500	9	Alp Eri	0.45300	24000.	85	22878	No
82	GOM_NL_2PRFIN20060716_081218_000000372049_00279_22878_0008.N1	16-JUL-2006 08:12:18	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22878	No
83	GOM_NL_2PRFIN20060716_081617_000000402049_00279_22878_0009.N1	16-JUL-2006 08:16:17	Straylight	39.500	148	Alp Tuc	2.8780	4100.0	79	22878	No
84	GOM_NL_2PRFIN20060716_082009_000000412049_00279_22878_0010.N1	16-JUL-2006 08:20:09	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	22878	No
85	GOM_NL_2PRFIN20060716_082812_000000422049_00279_22878_0011.N1	16-JUL-2006 08:28:12	Twilight_and_stray	41.500	38	20Eps Sgr	1.8360	11000.	83	22878	No
86	GOM_NL_2PRFIN20060716_083039_000000382049_00279_22878_0012.N1	16-JUL-2006 08:30:39	Bright	38.000	137	22Lam Sgr	2.8240	4400.0	76	22878	No
87	GOM_NL_2PRFIN20060716_083925_000000362049_00279_22878_0013.N1	16-JUL-2006 08:39:25	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	22878	No
88	GOM_NL_2PRFIN20060716_084143_000000372049_00279_22878_0014.N1	16-JUL-2006 08:41:43	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	22878	No
89	GOM_NL_2PRFIN20060716_084737_000000342049_00279_22878_0015.N1	16-JUL-2006 08:47:37	Bright	34.000	133	40Zet Her	2.8070	6000.0	68	22878	No
90	GOM_NL_2PRFIN20060716_085233_000000372049_00279_22878_0016.N1	16-JUL-2006 08:52:33	Bright	36.500	69	33Gam Dra	2.2310	3800.0	73	22878	No
91	GOM_NL_2PRFIN20060716_085547_000000362049_00279_22878_0017.N1	16-JUL-2006 08:55:47	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	22878	No
92	GOM_NL_2PRFIN20060716_090000_000000342049_00279_22878_0018.N1	16-JUL-2006 09:00:00	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	22878	No
93	GOM_NL_2PRFIN20060716_090333_000000362049_00279_22878_0019.N1	16-JUL-2006 09:03:33	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	22878	No
94	GOM_NL_2PRFIN20060716_092449_000000442049_00279_22878_0020.N1	16-JUL-2006 09:24:49	Twilight	44.000	13	87Alp Tau	0.86700	3800.0	88	22878	No
95	GOM_NL_2PRFIN20060716_093109_000000432049_00279_22878_0021.N1	16-JUL-2006 09:31:09	Dark	43.000	7	19Bet Ori	0.10000	14000.	86	22878	No
96	GOM_NL_2PRFIN20060716_093426_000000392049_00279_22878_0022.N1	16-JUL-2006 09:34:26	Dark	39.000	139	9Bet Lep	2.8330	5600.0	78	22878	No

### 3. Quality information per product

In this section it is plotted some information contained in the Quality Summary data set of

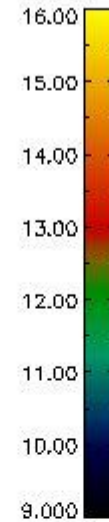
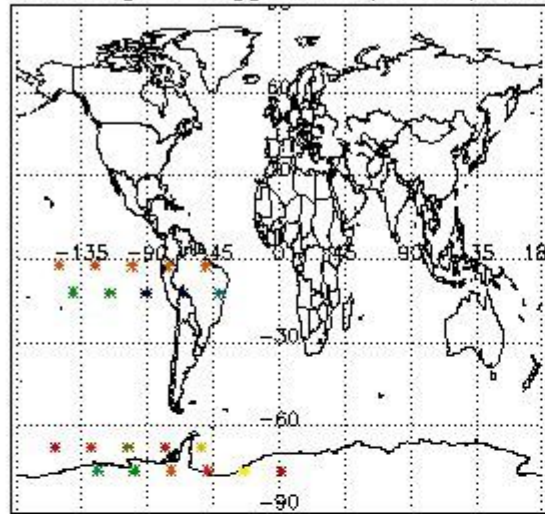
the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

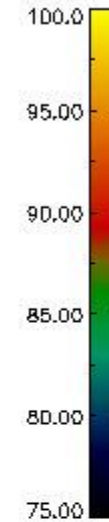
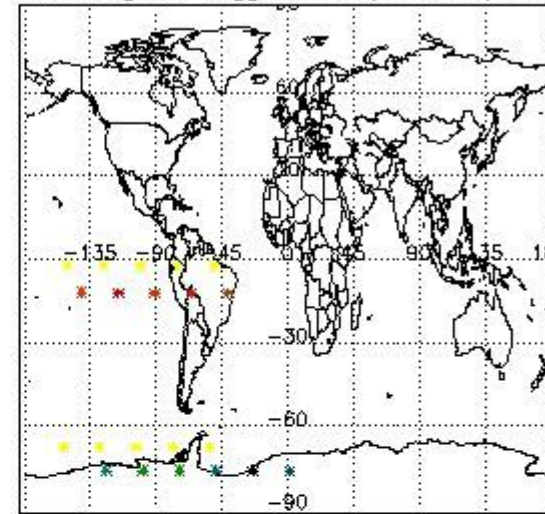


3.2 Plot quality information per product (world map)

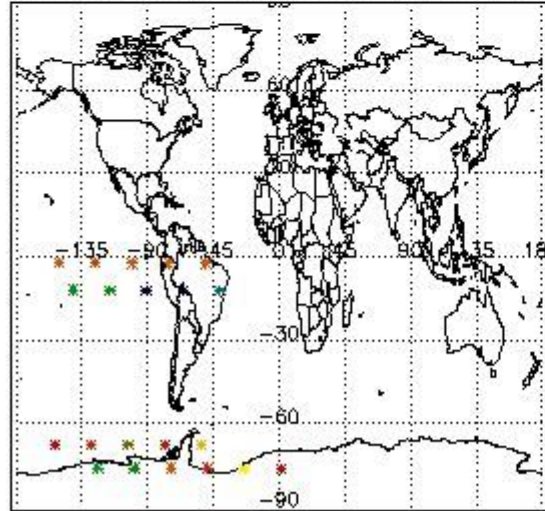
Percentage of flagged data per O3 profile



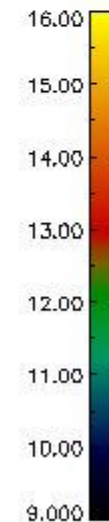
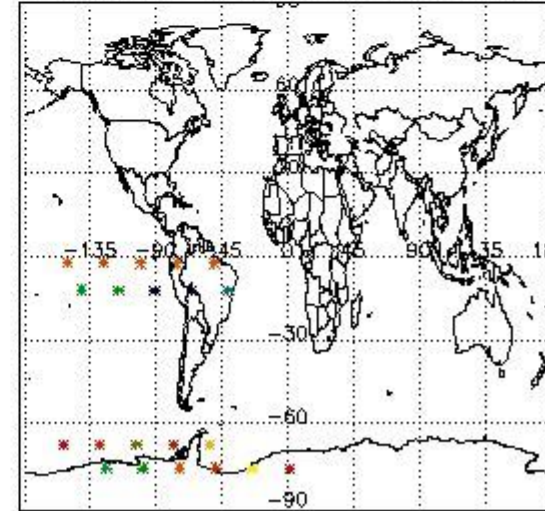
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

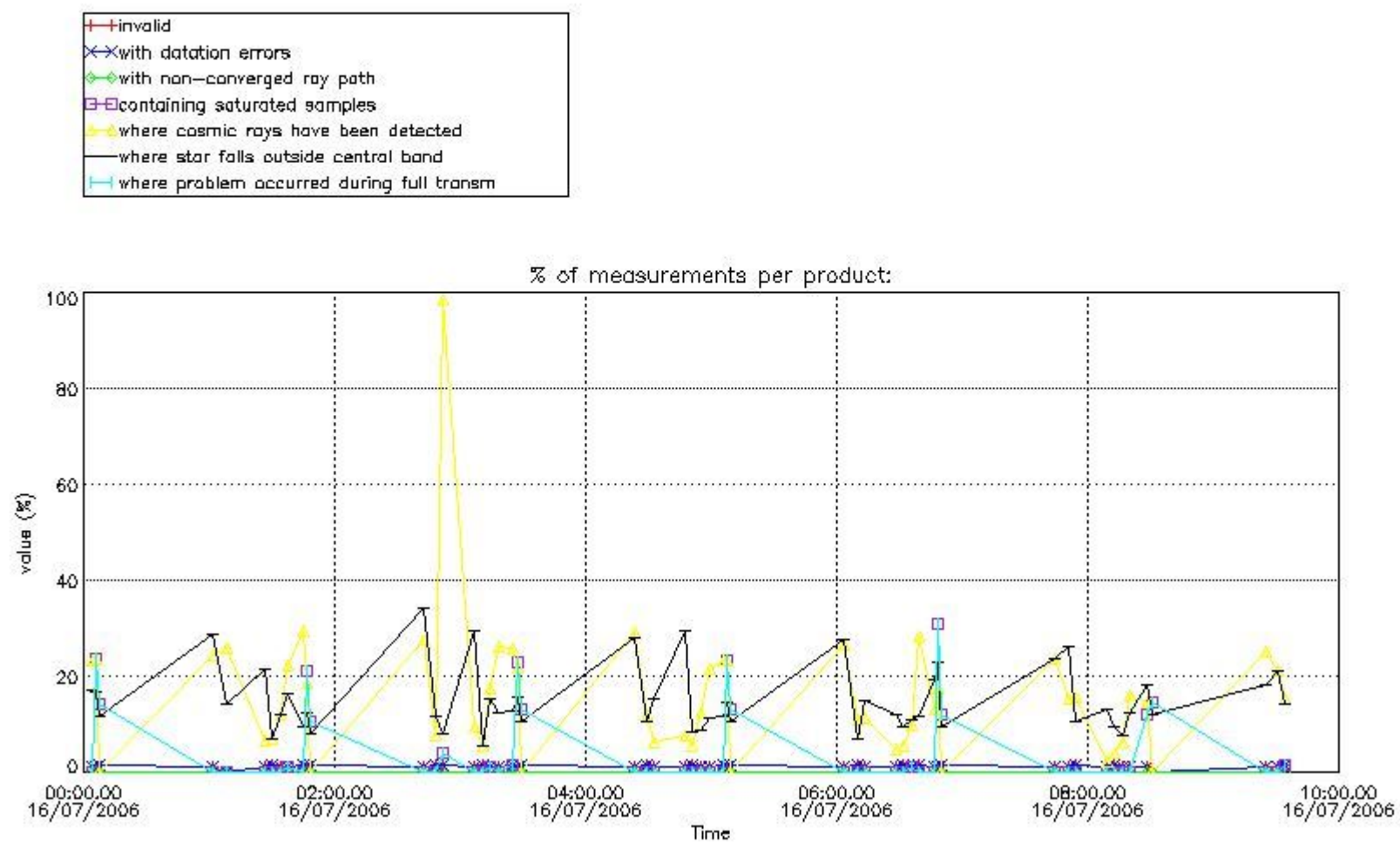


#### 4. Level 1 quality information per product

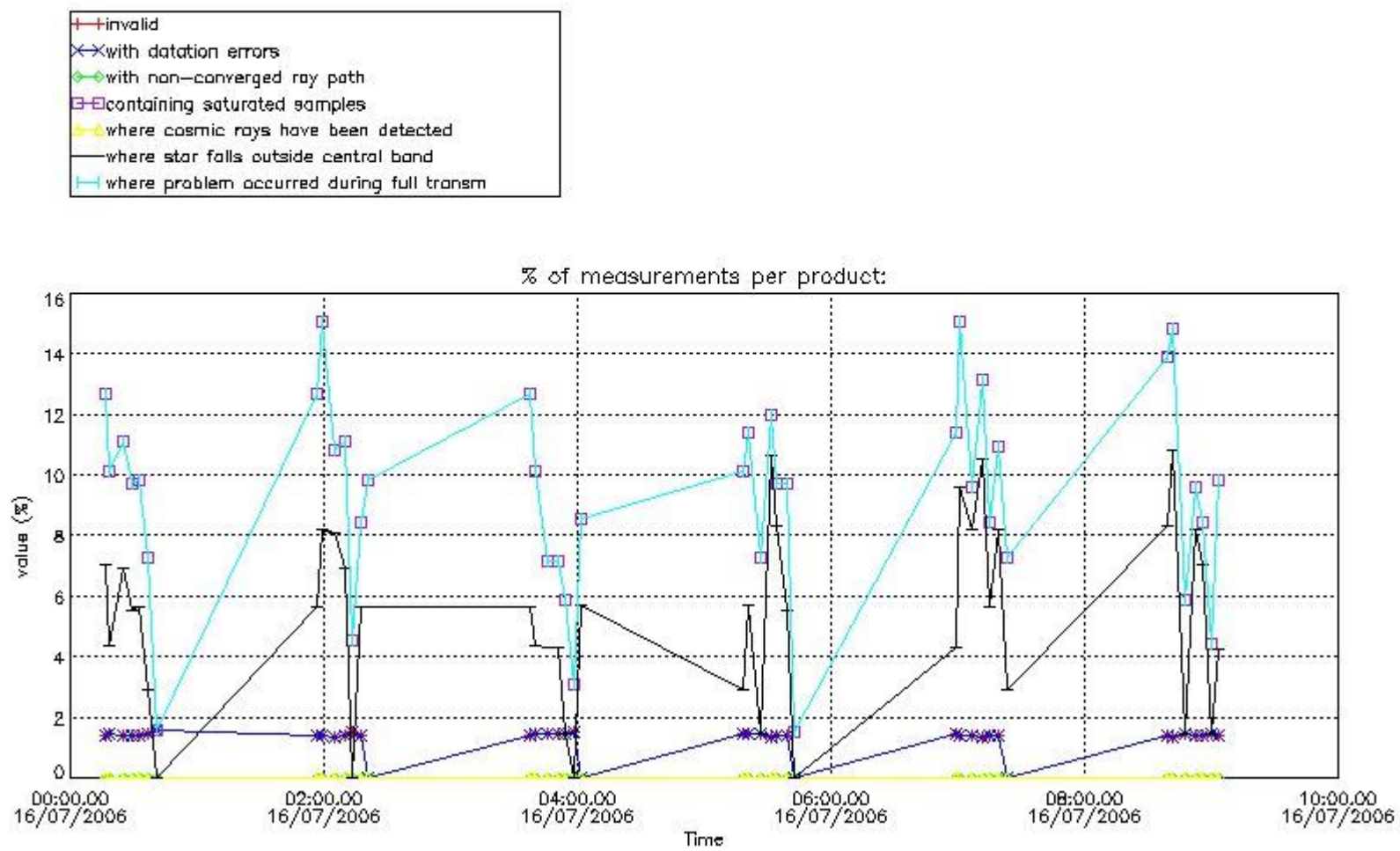
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



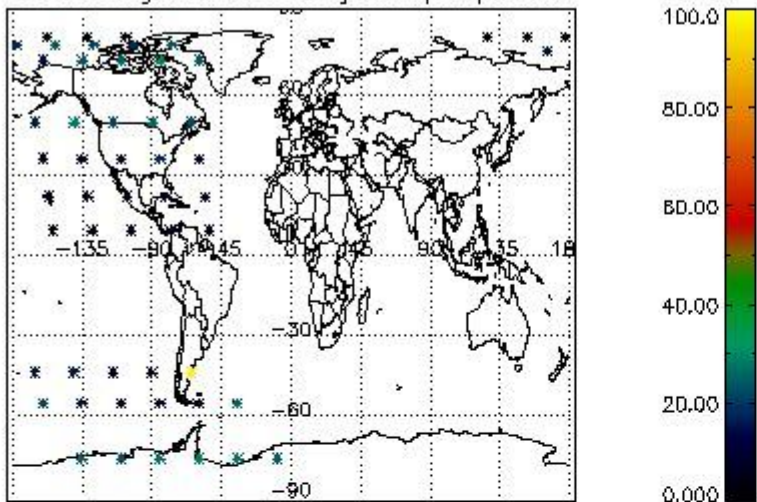
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



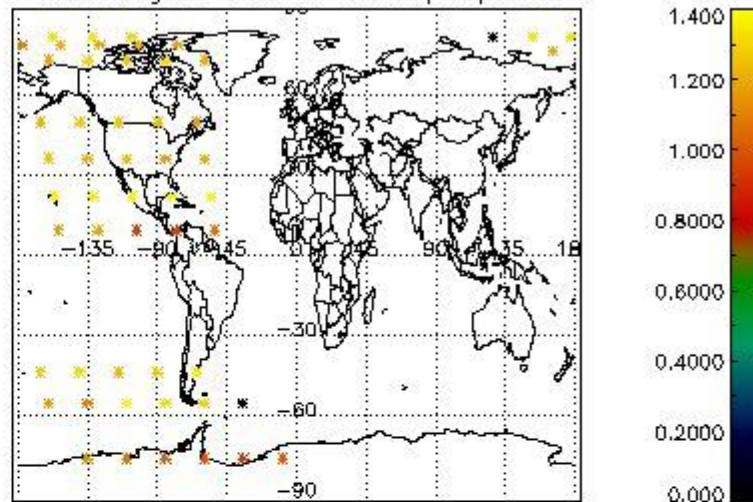
4.2 Plot quality information per product coming from level 1b processing (world map)

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

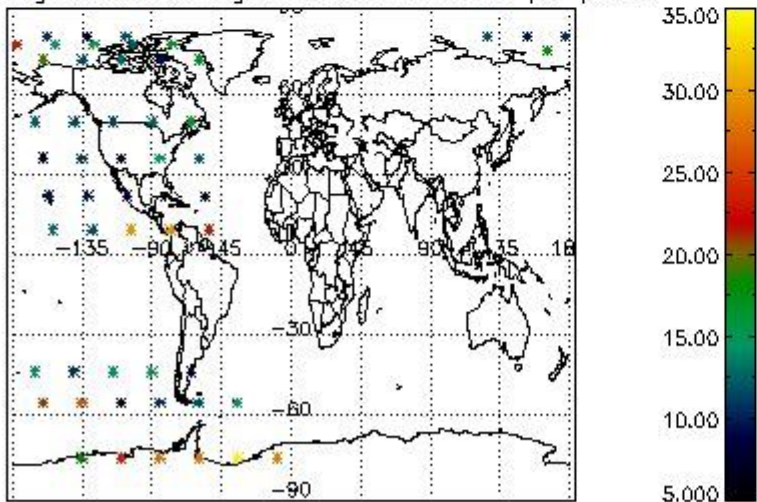
Percentage of cosmic ray hits per profile



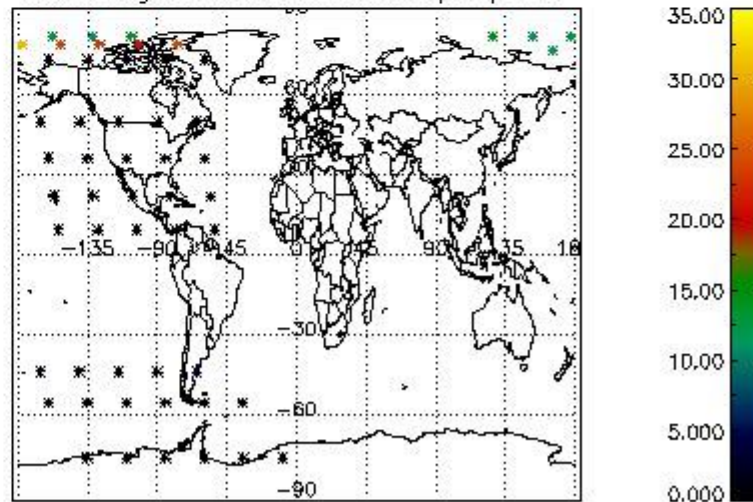
Percentage of datation errors per profile



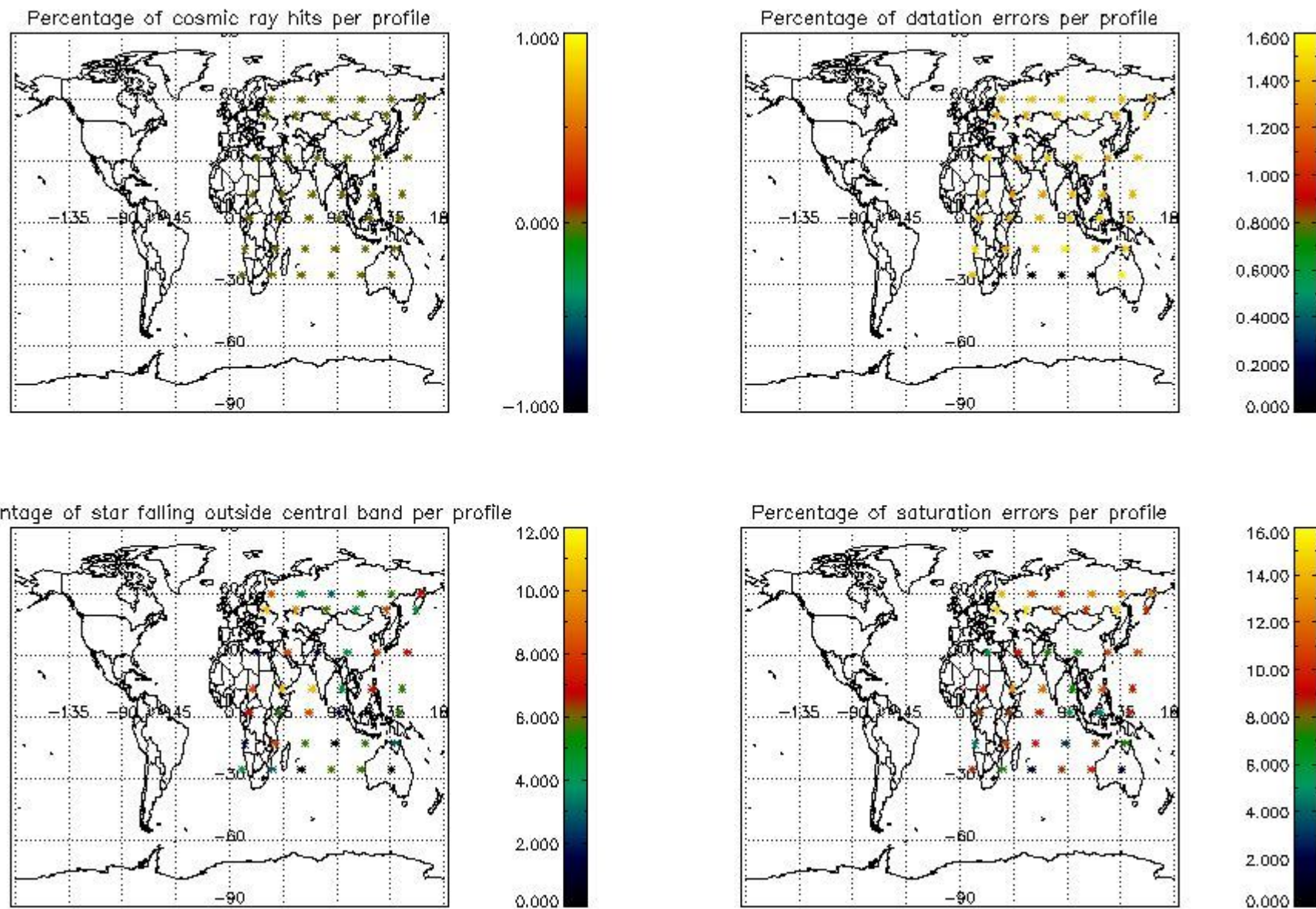
Percentage of star falling outside central band per profile



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.

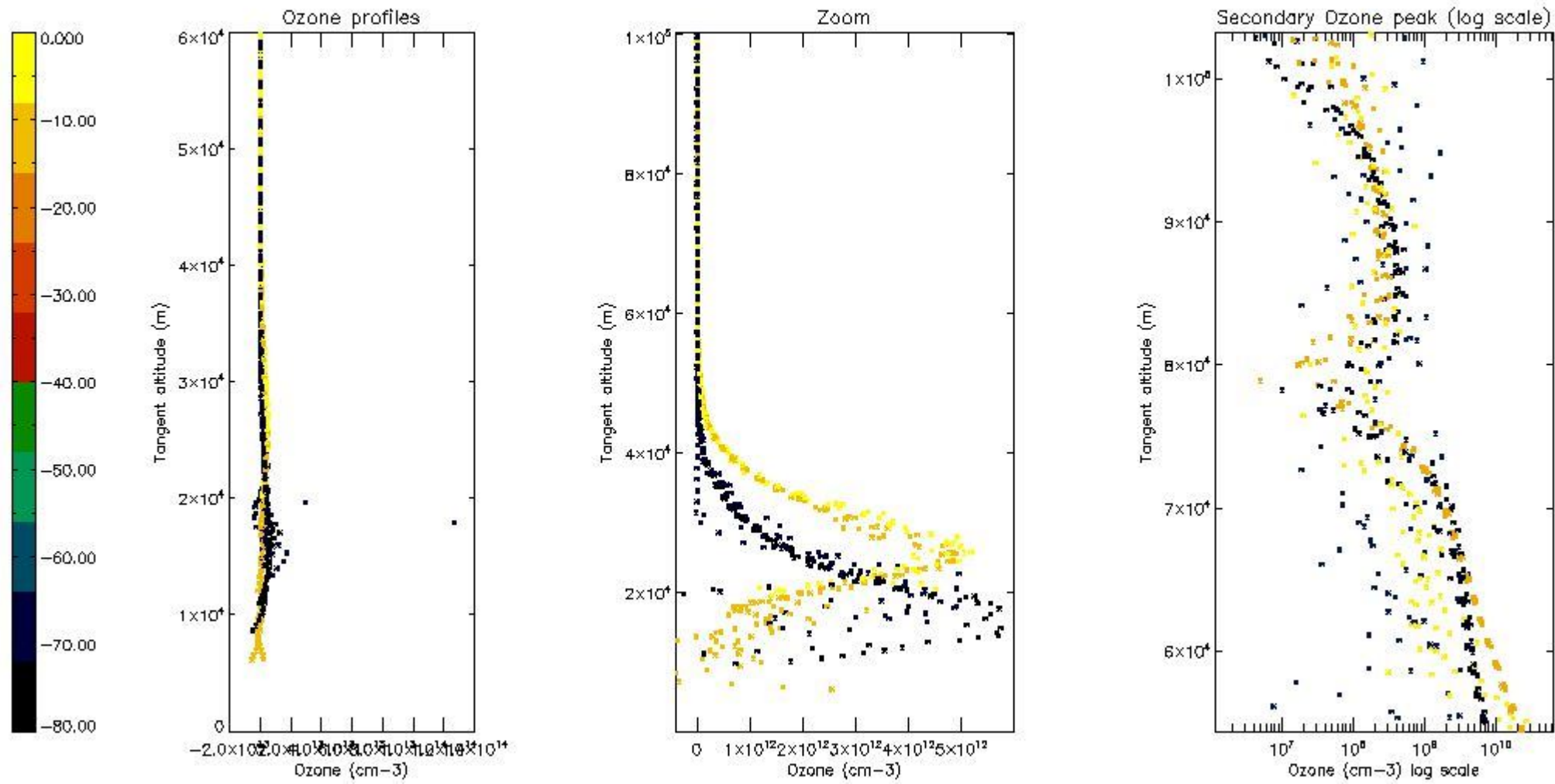
Criteria	% of total production
All STD	24
STD < 20	13



STD < 10	10
STD < 5	8

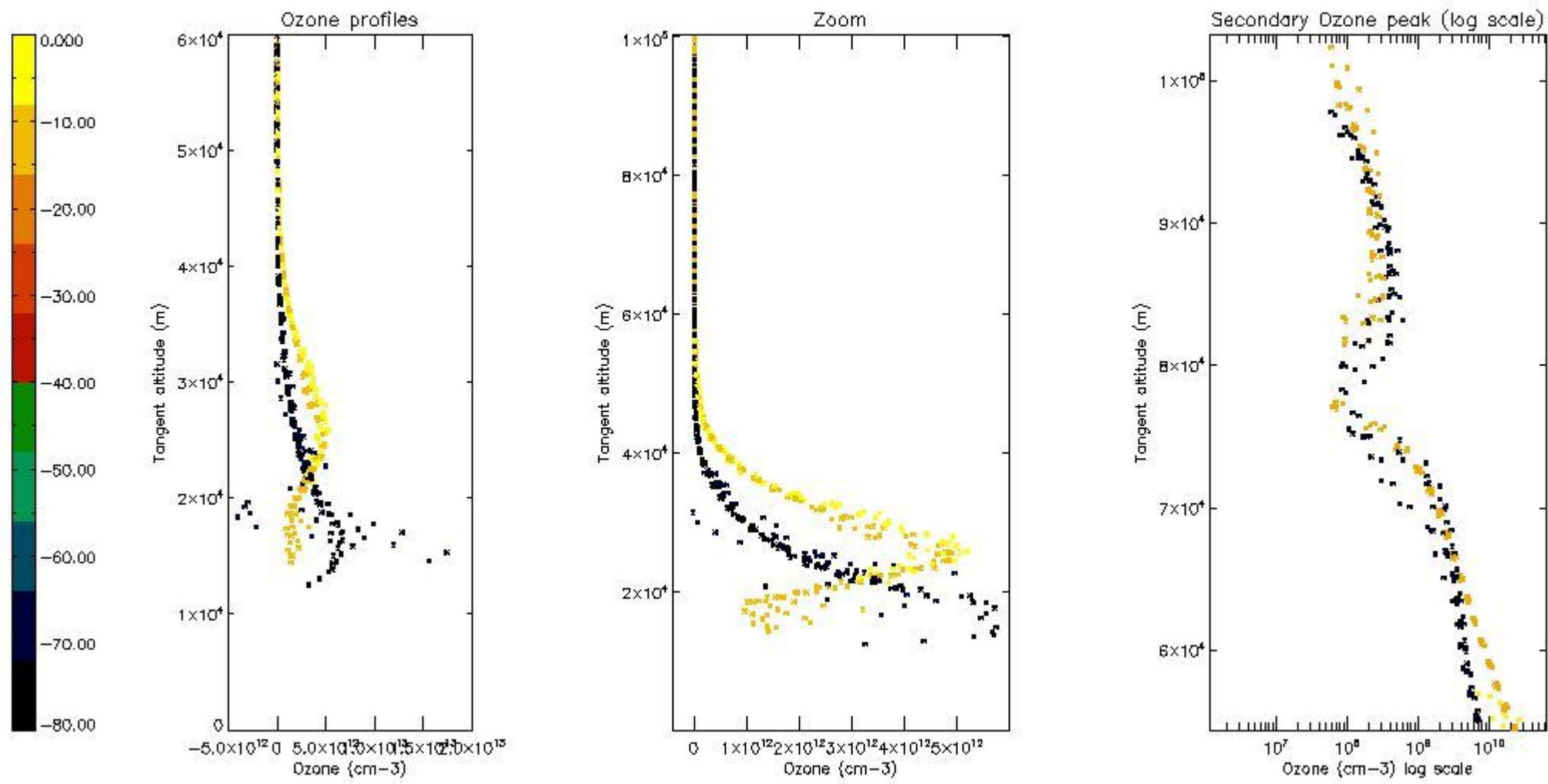
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



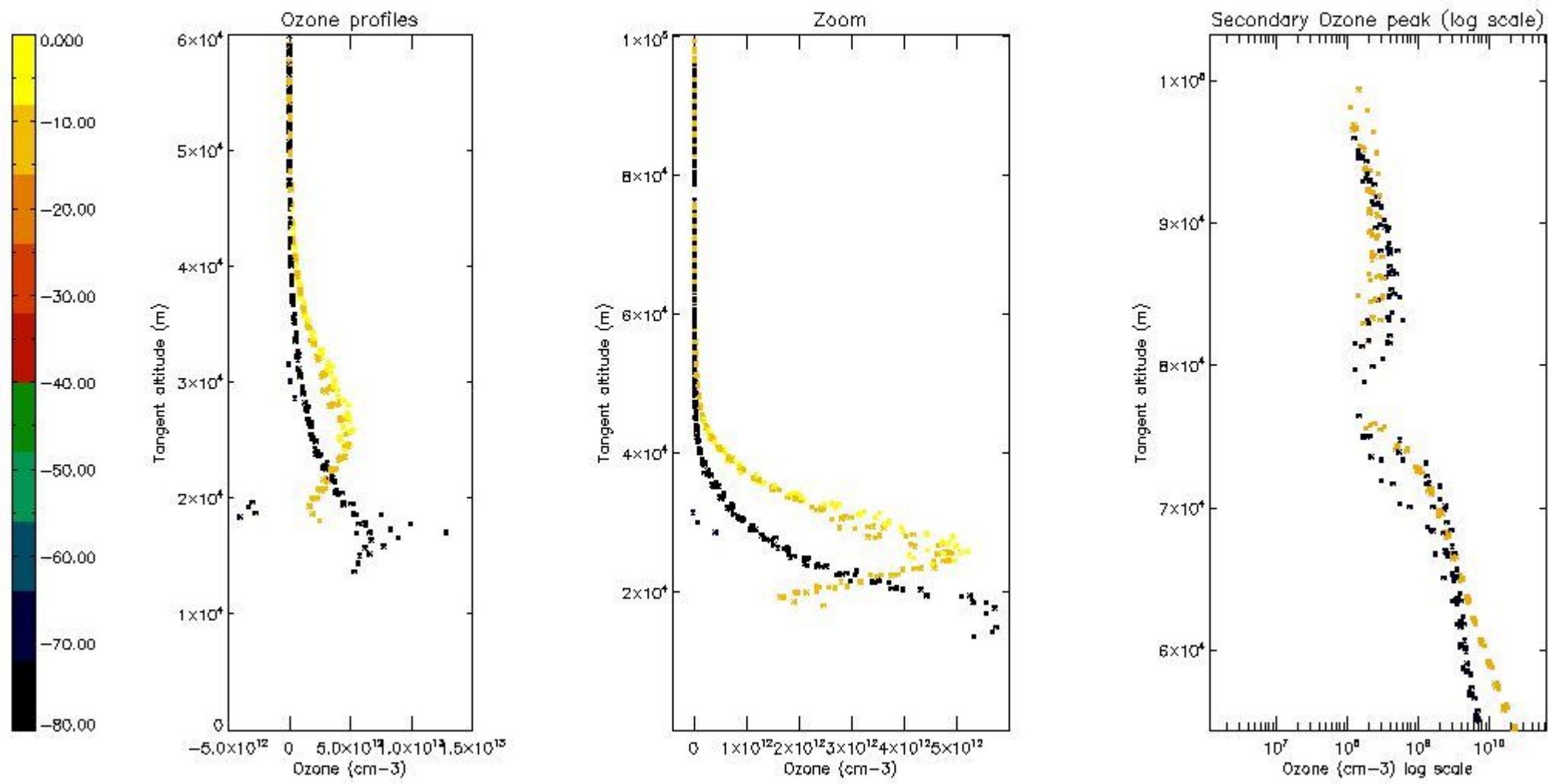
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



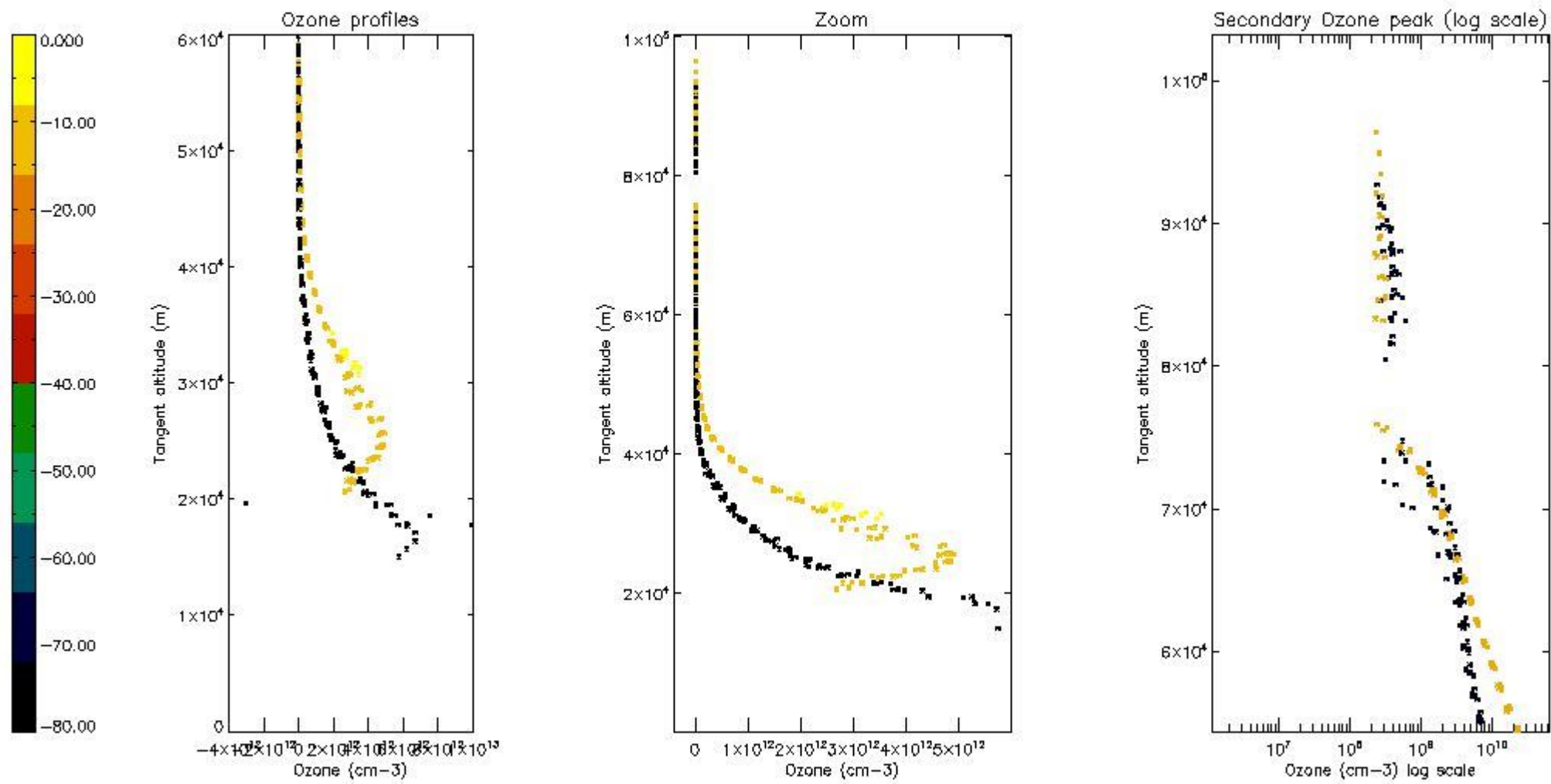
*5.4 Plot ozone profiles where  $\text{STD} < 10\%$  (dark without errors)*

The colorbar represents the latitude.



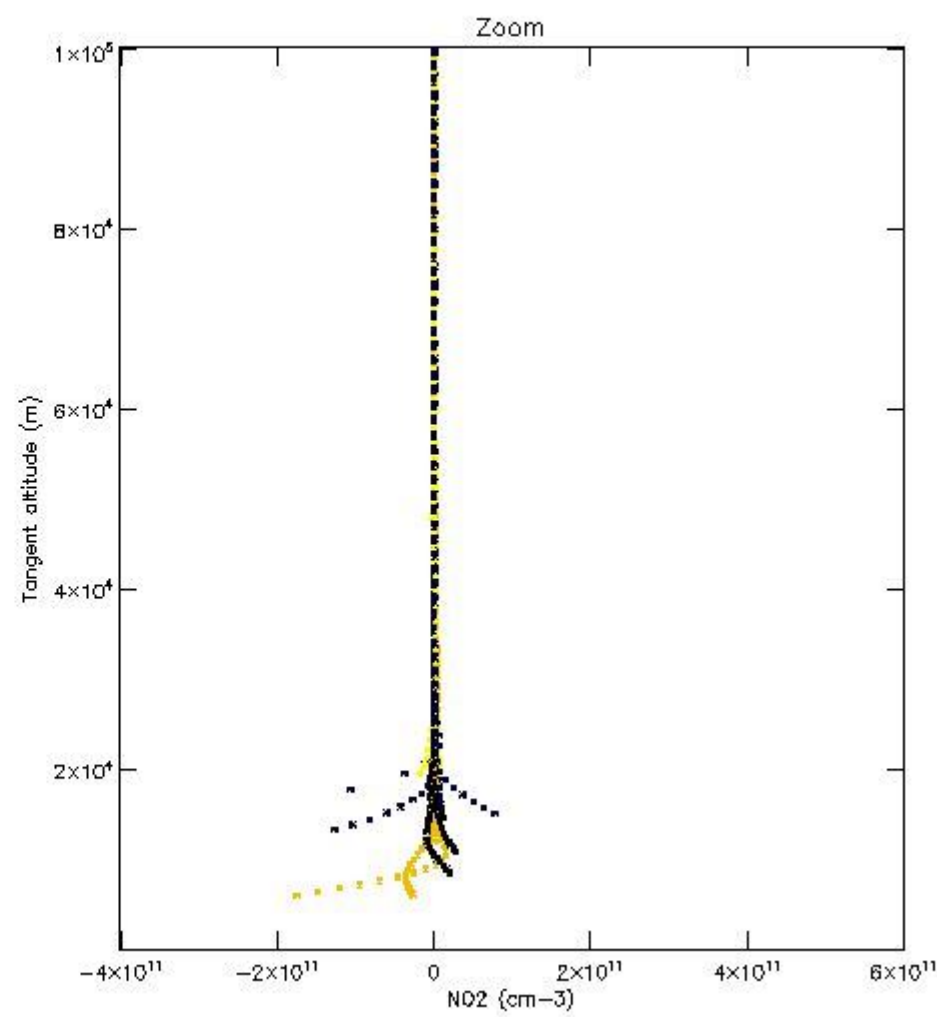
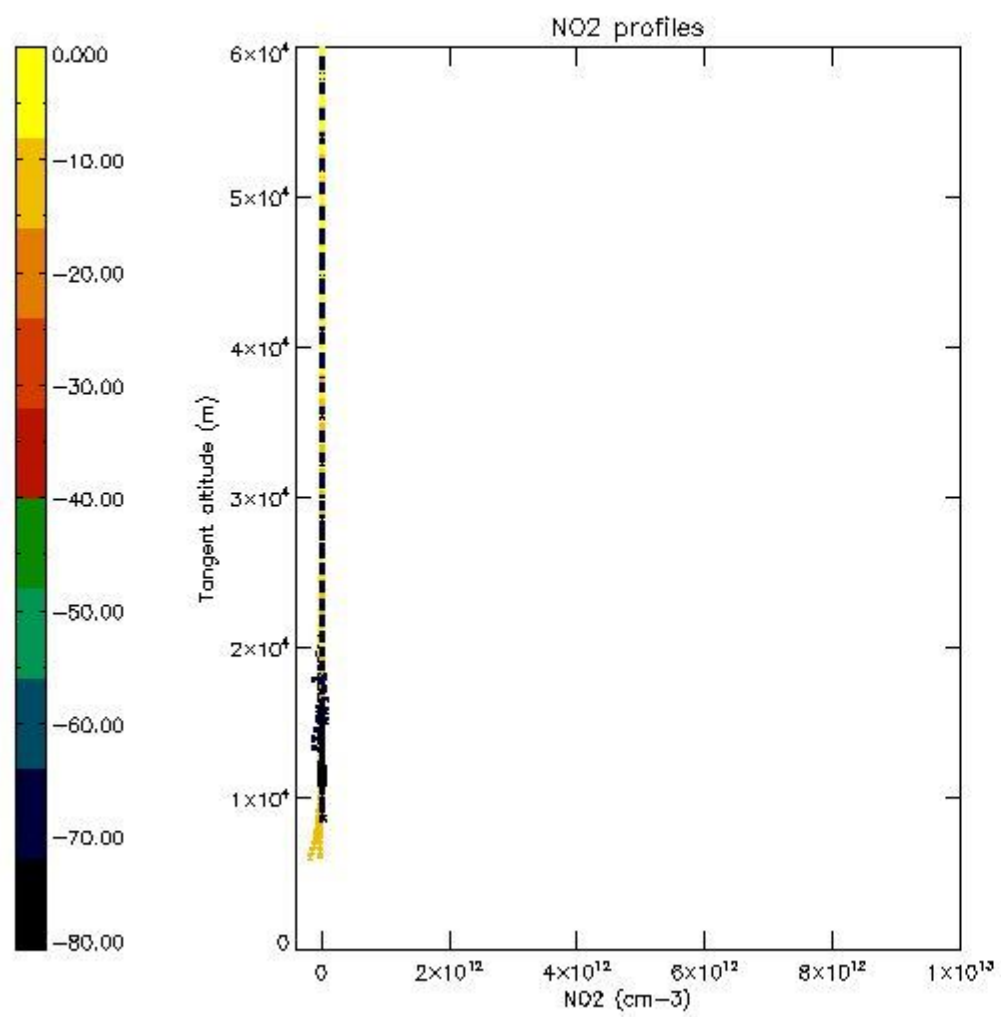
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



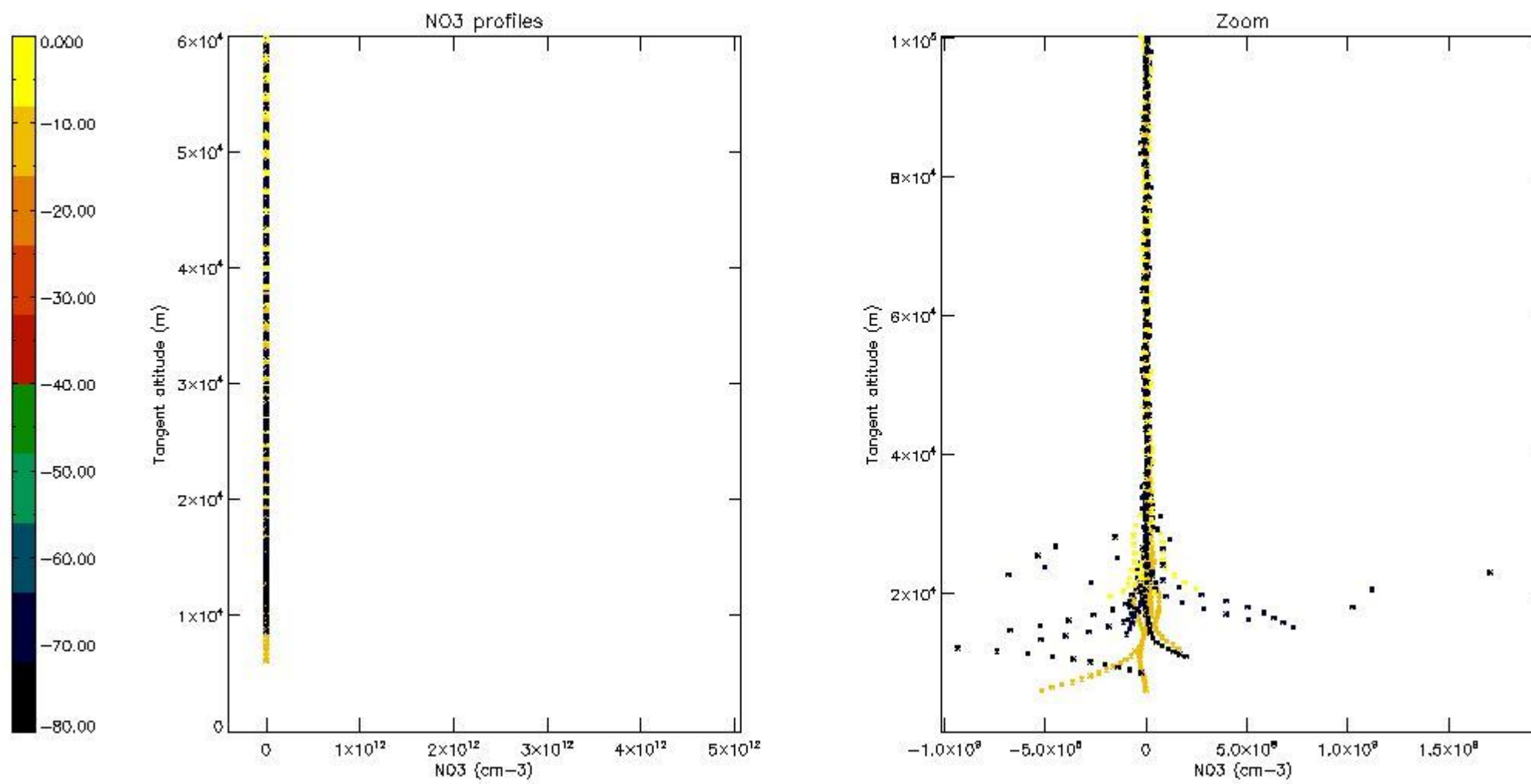
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

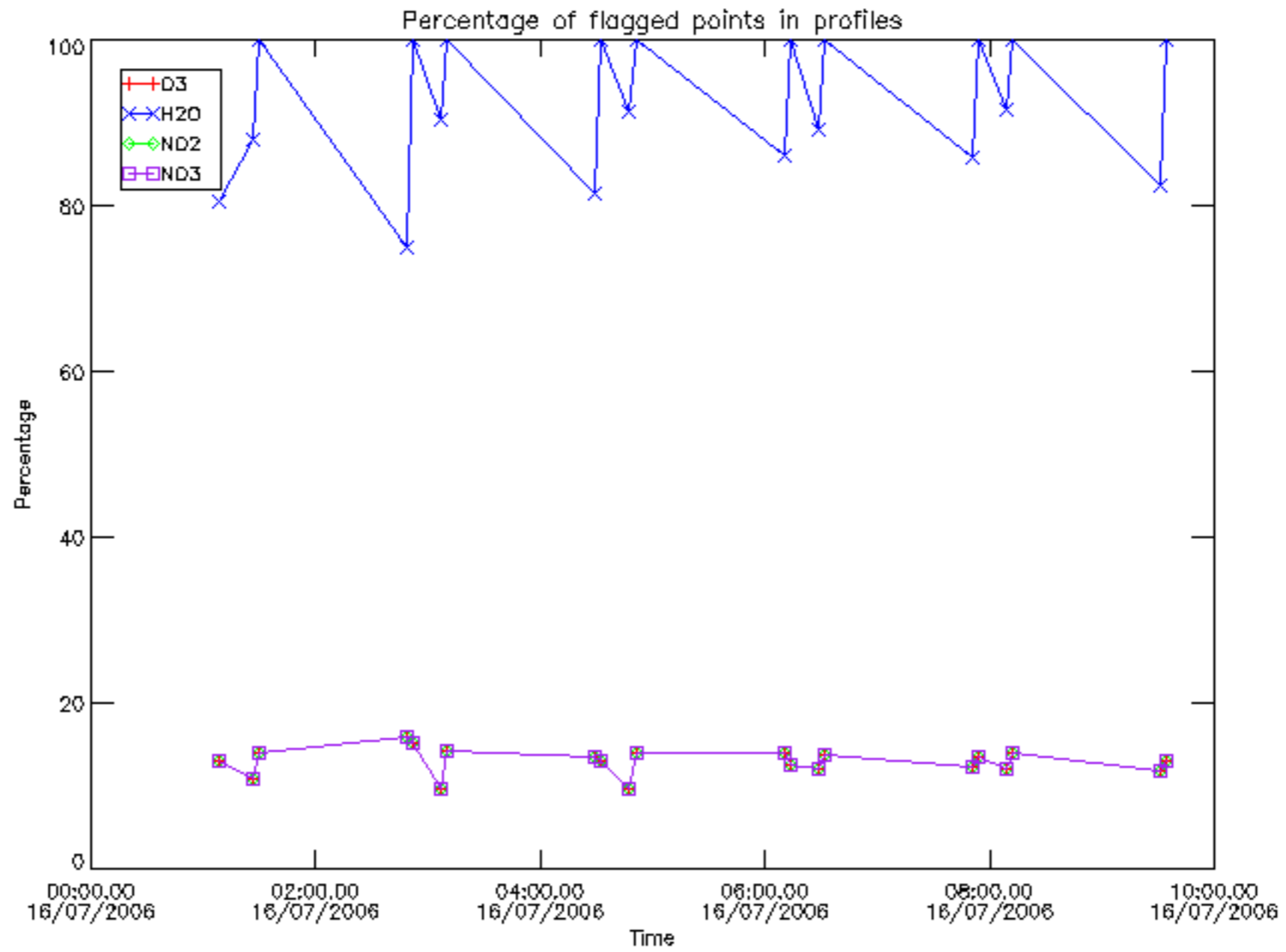
The colorbar represents the latitude.



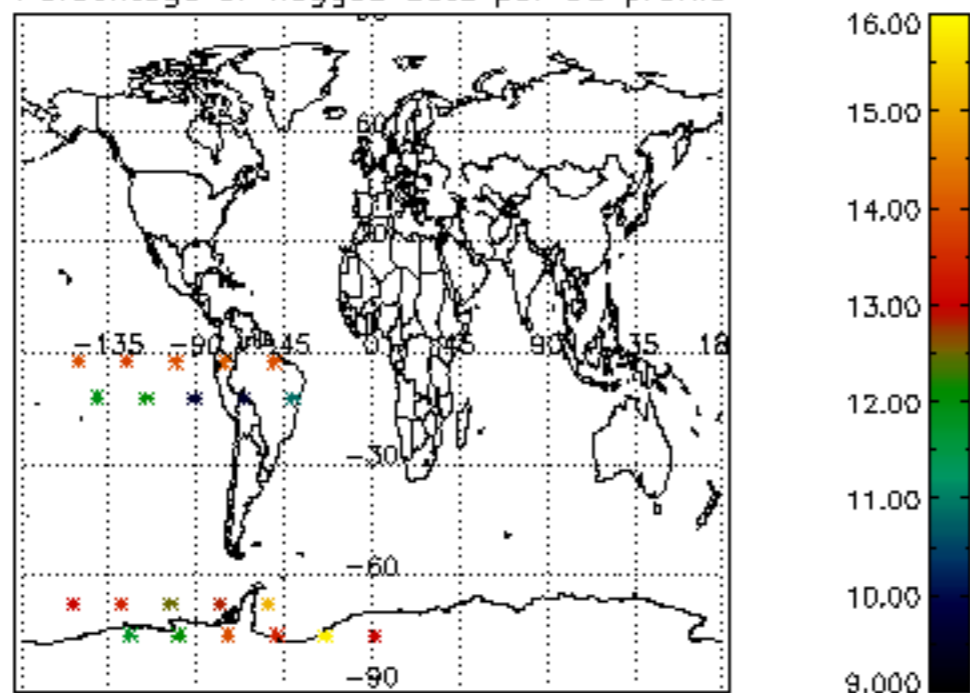
## 6. Auxiliary Data Files used for the production reported in section 2

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.

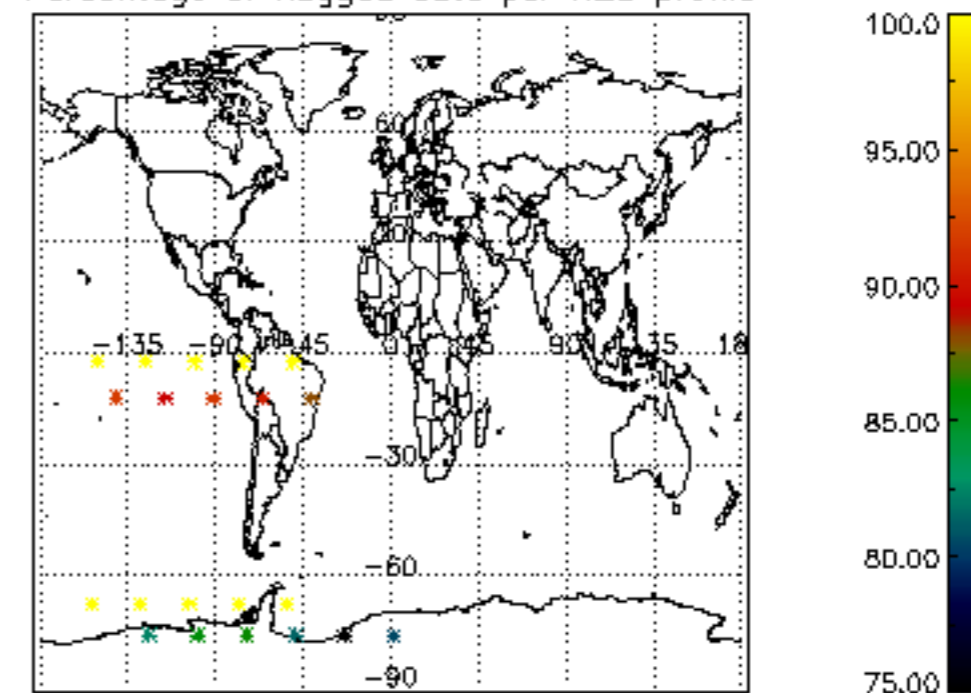
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	16-JUL-2006 00:04:00
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	16-JUL-2006 00:04:00
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	16-JUL-2006 00:04:00



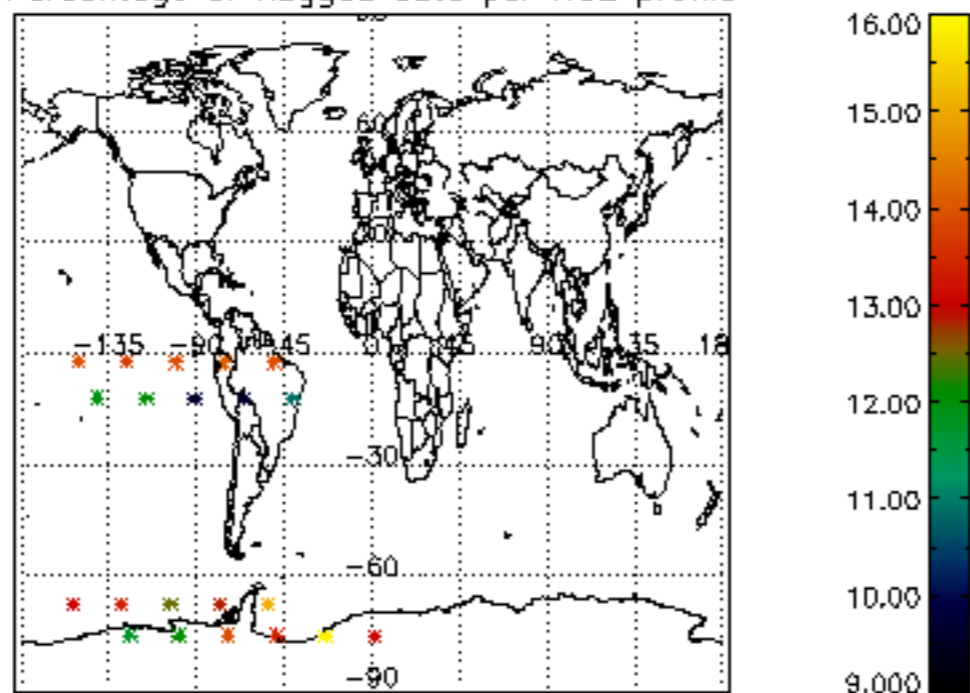
Percentage of flagged data per D3 profile



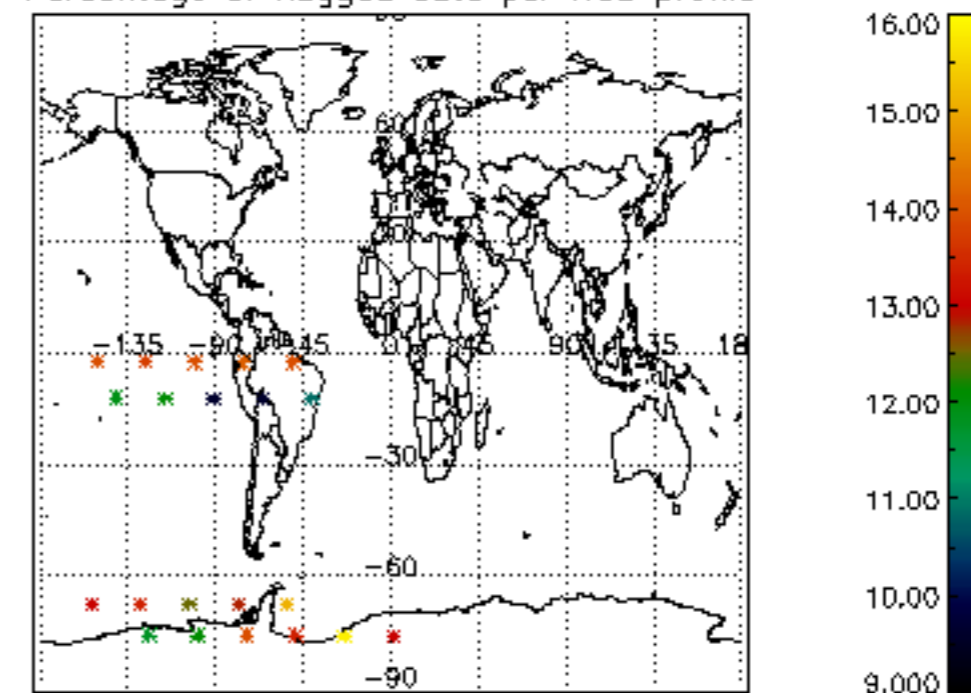
Percentage of flagged data per H2O profile



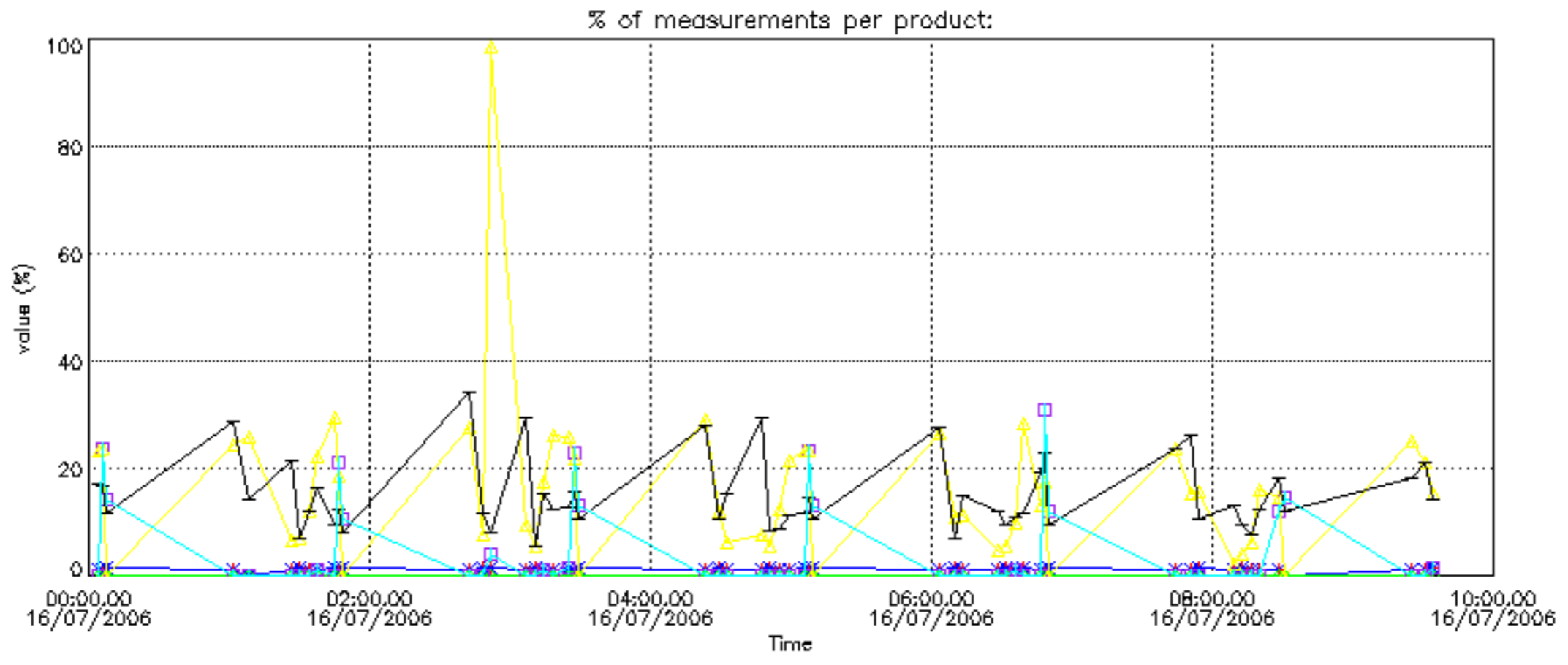
Percentage of flagged data per NO2 profile

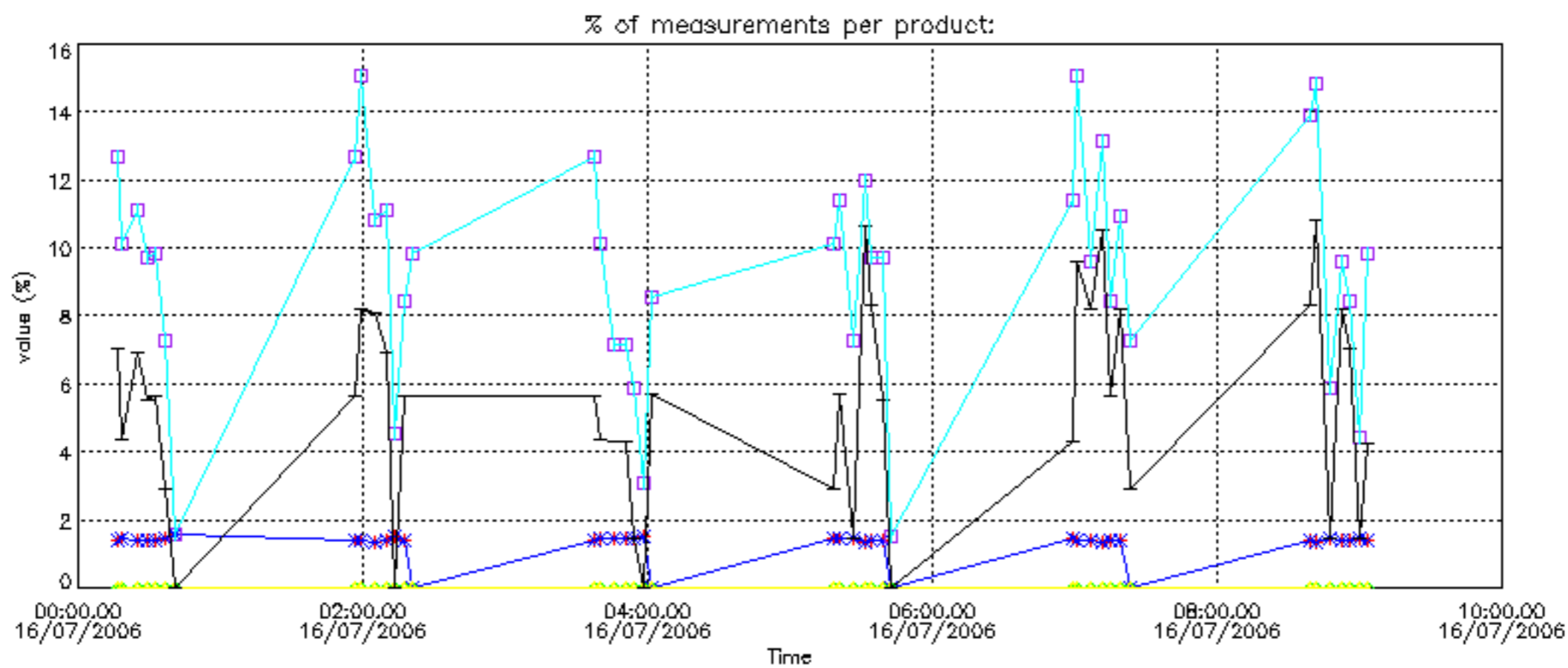


Percentage of flagged data per NO3 profile

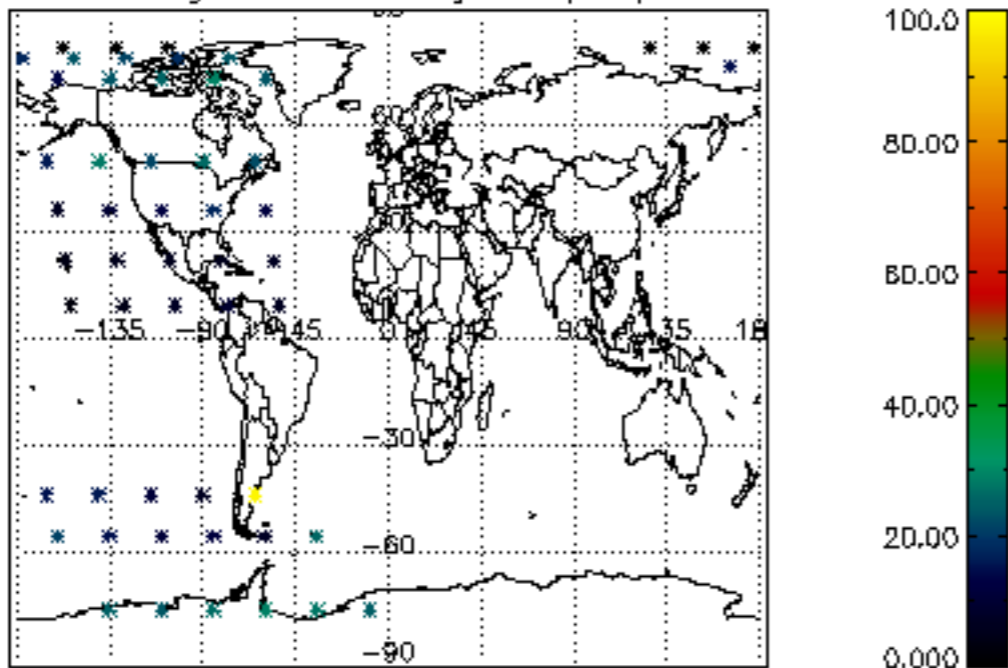




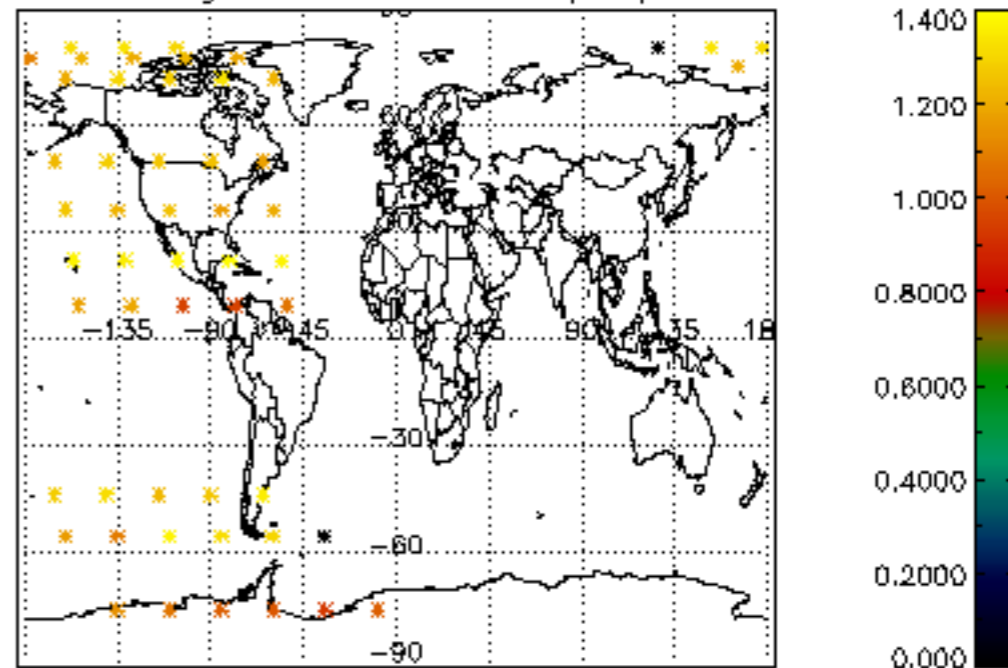




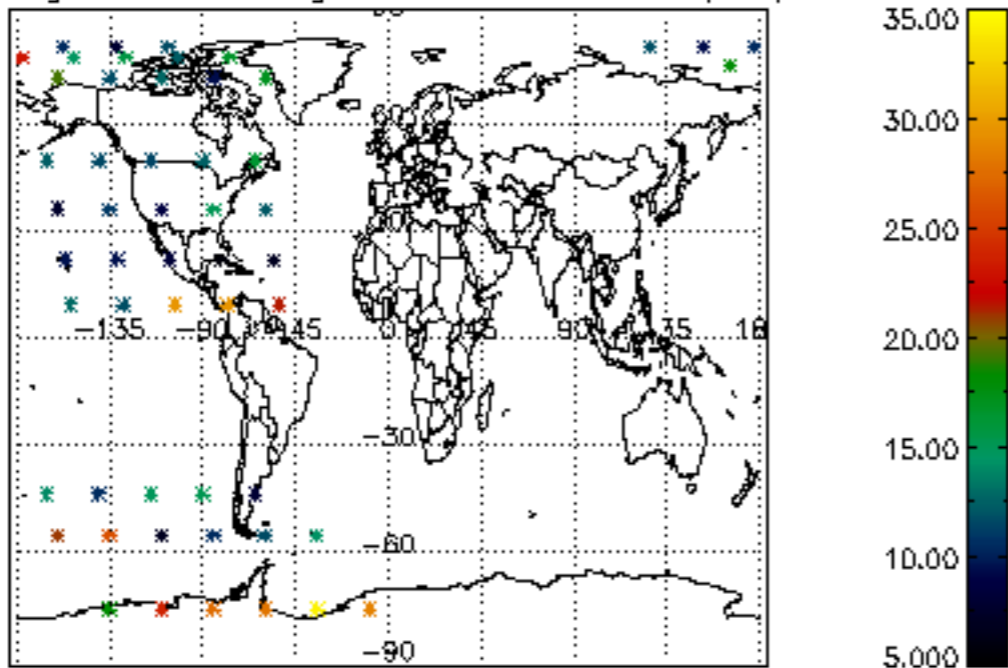
Percentage of cosmic ray hits per profile



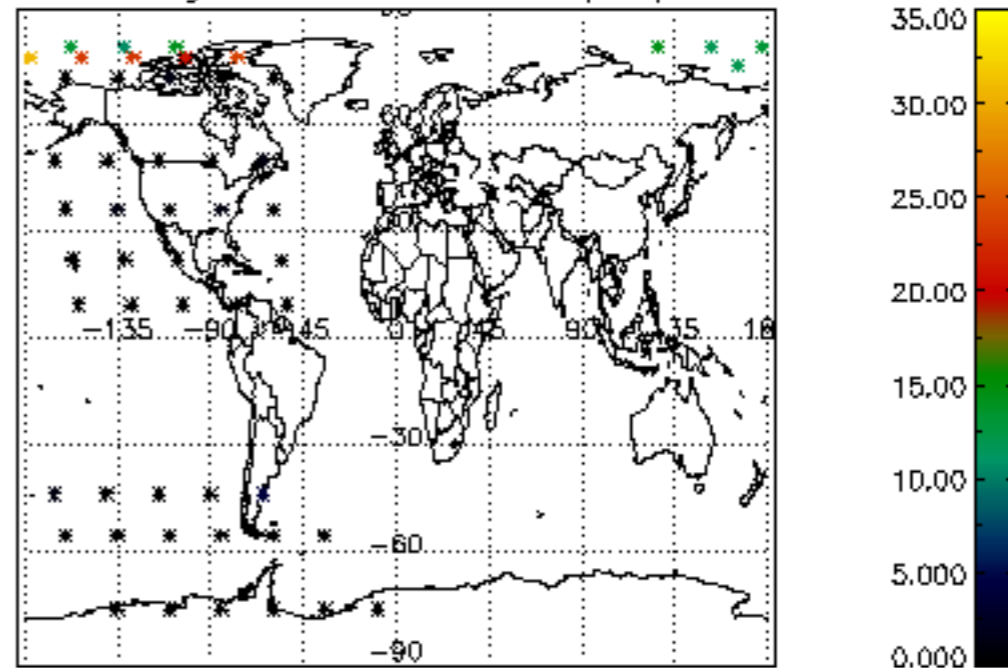
Percentage of datation errors per profile



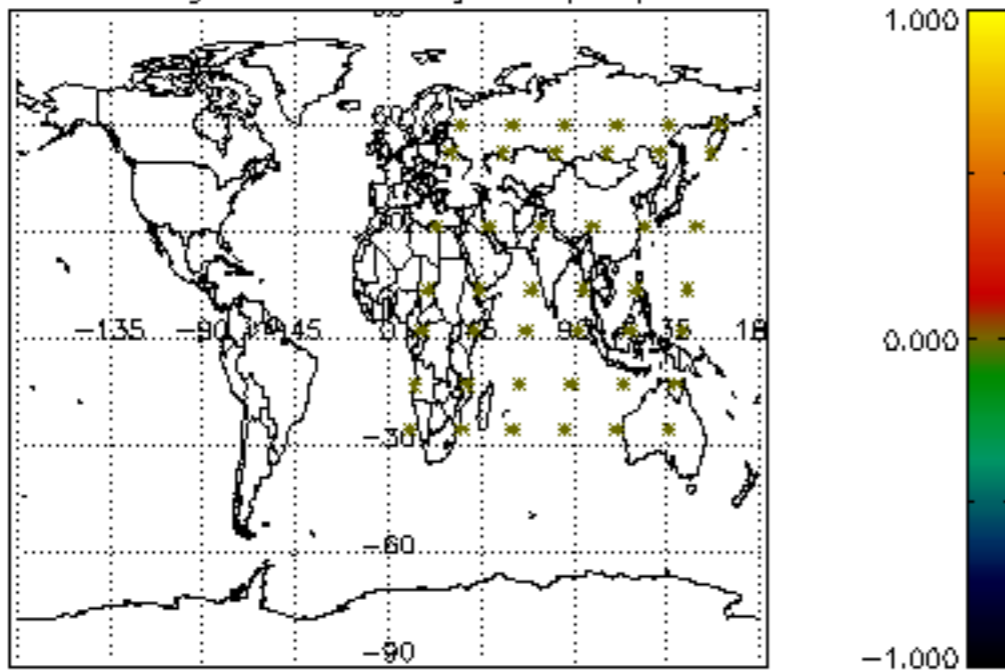
Percentage of star falling outside central band per profile



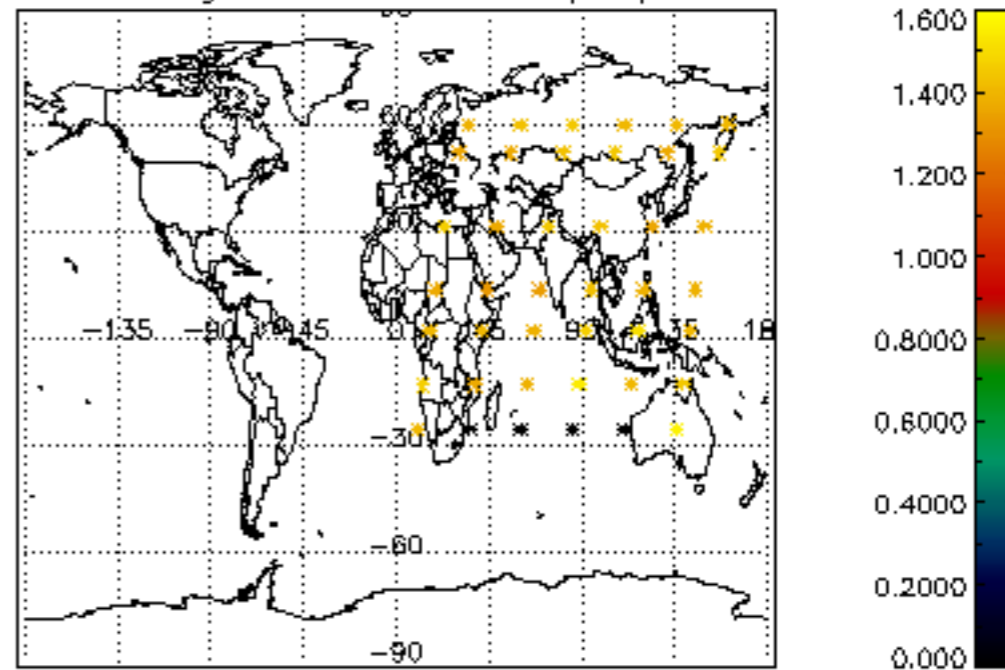
Percentage of saturation errors per profile



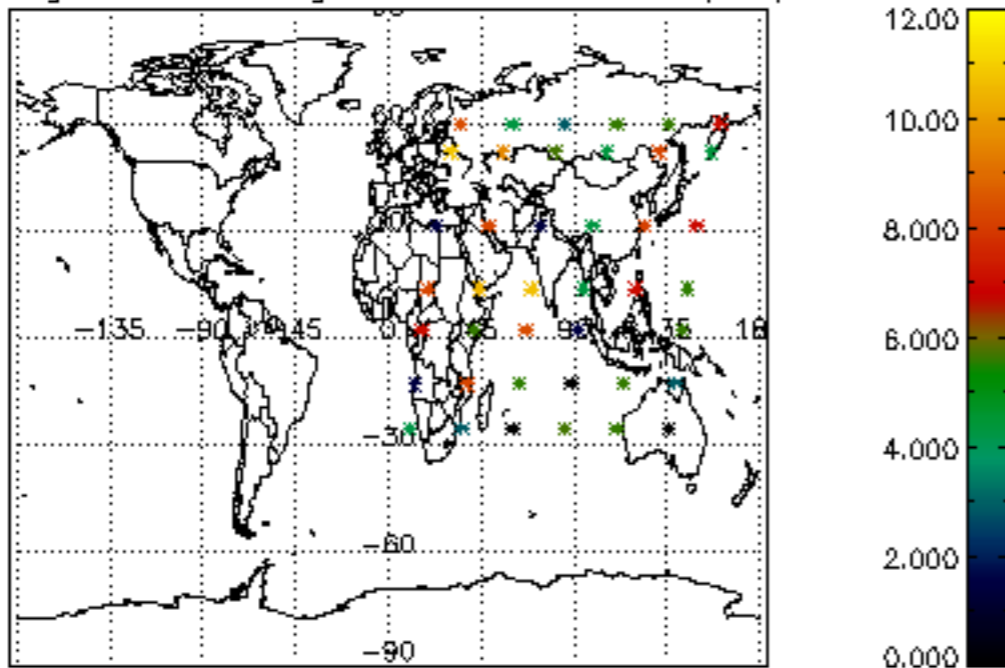
Percentage of cosmic ray hits per profile



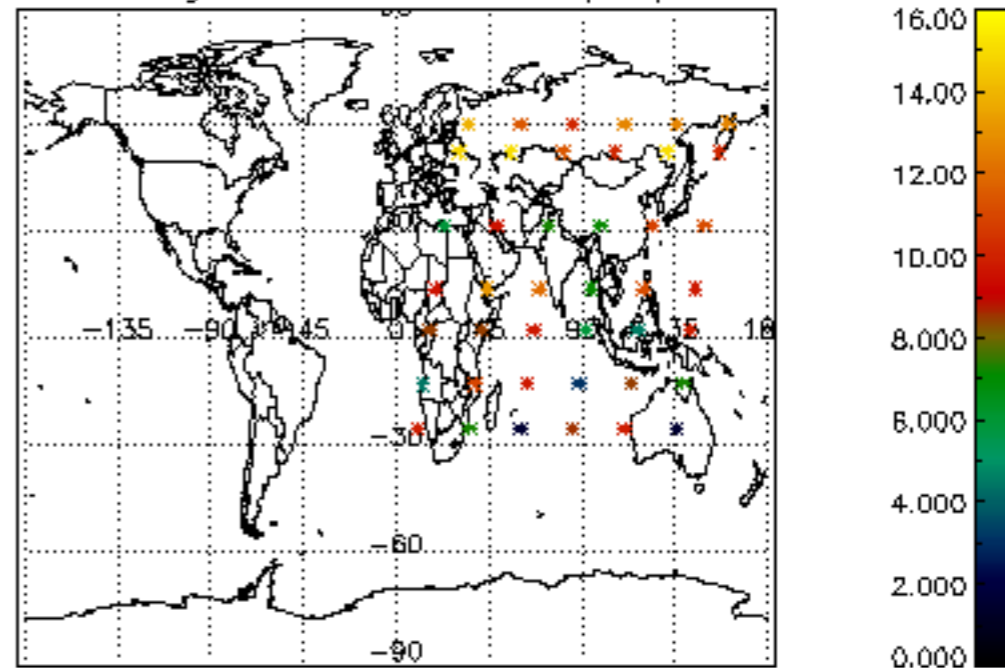
Percentage of datation errors per profile

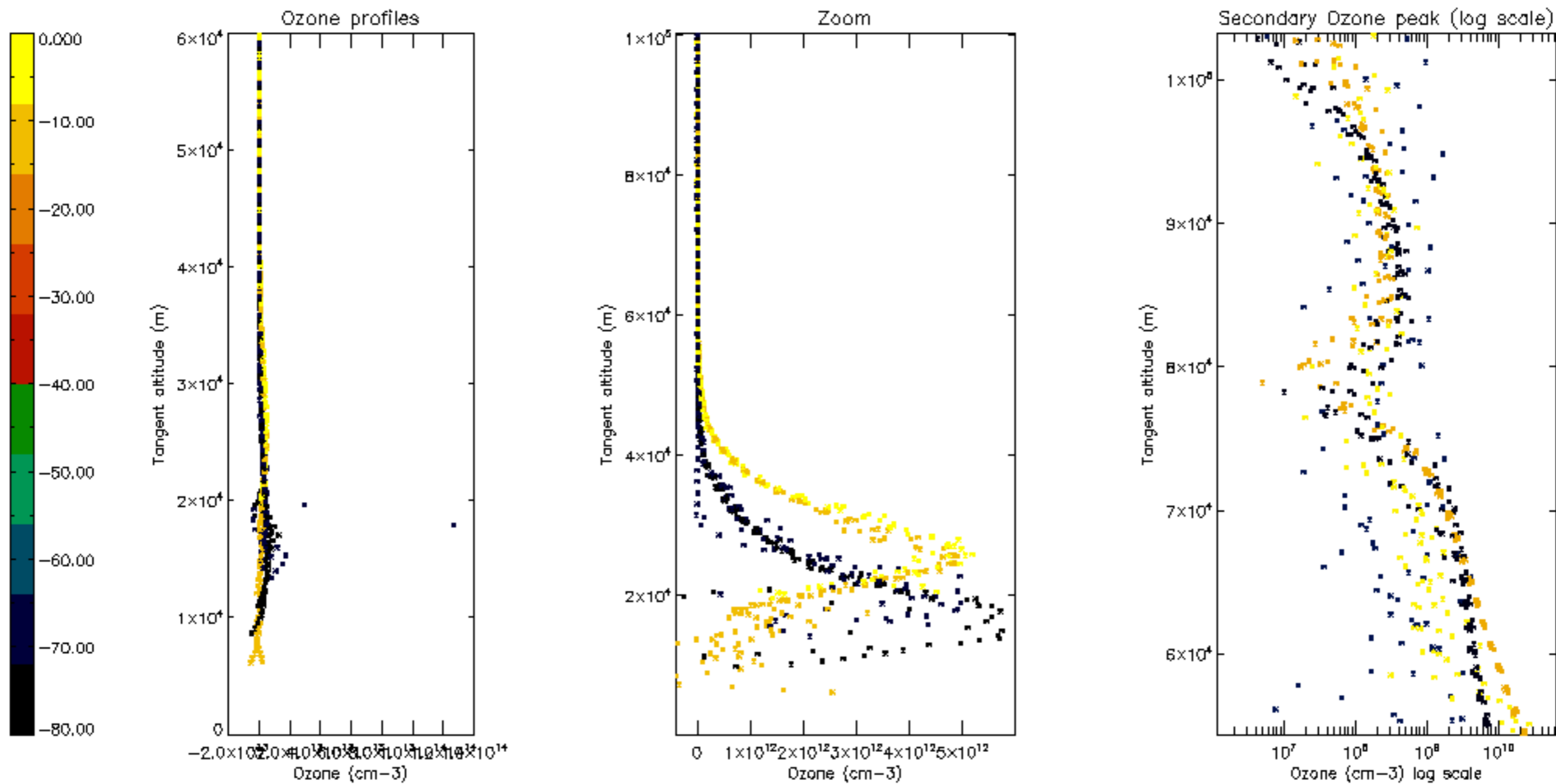


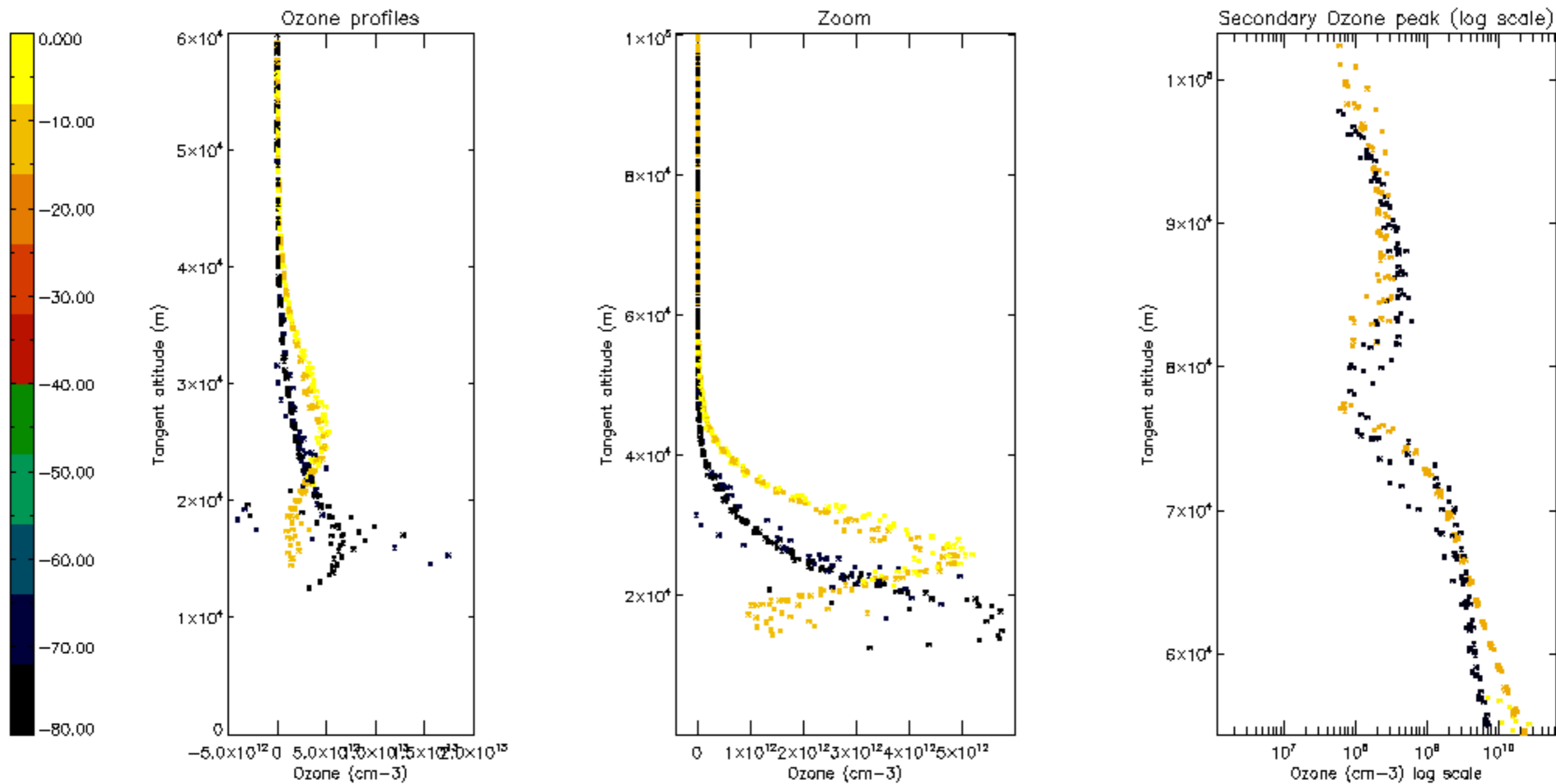
Percentage of star falling outside central band per profile

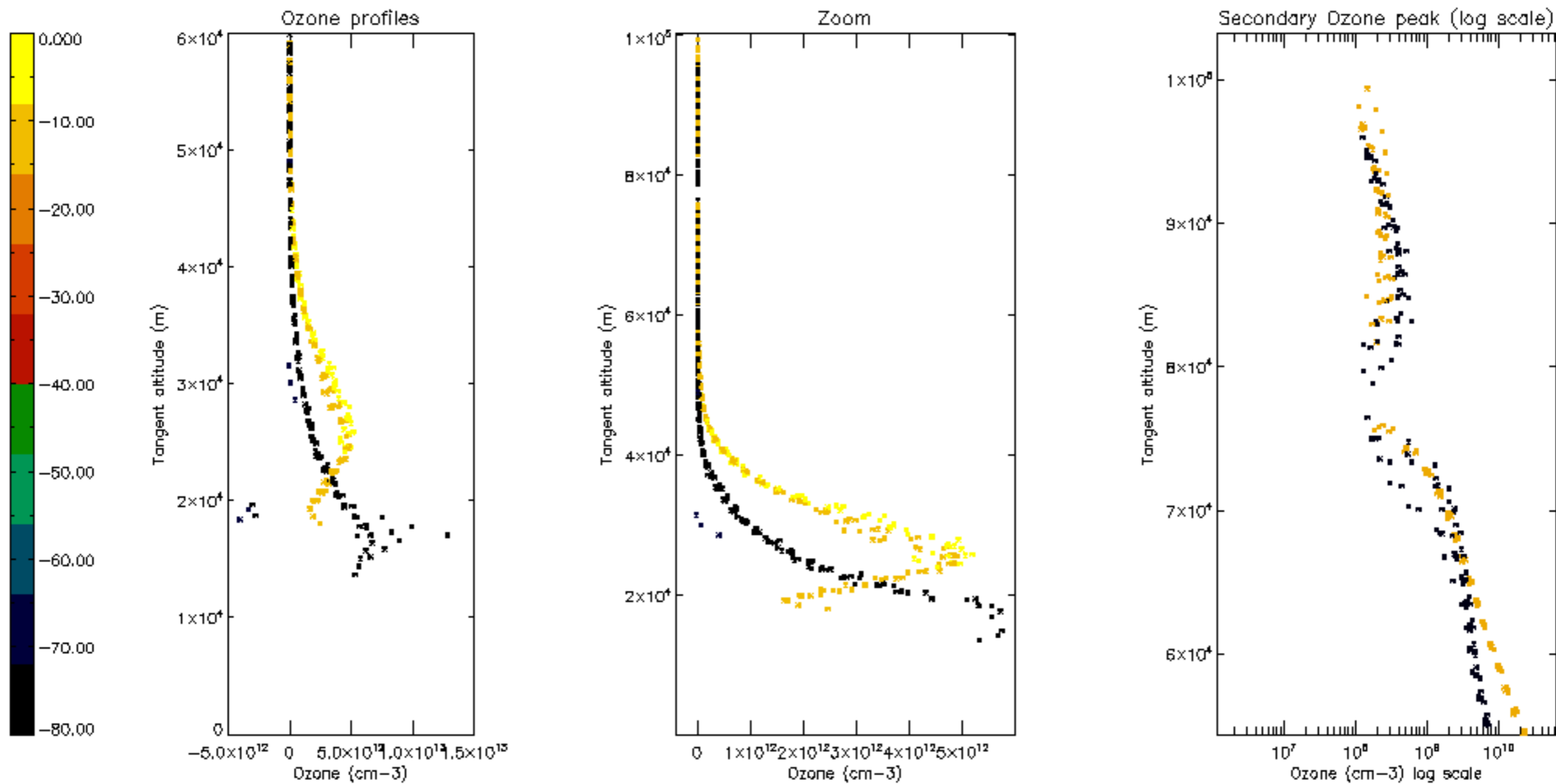


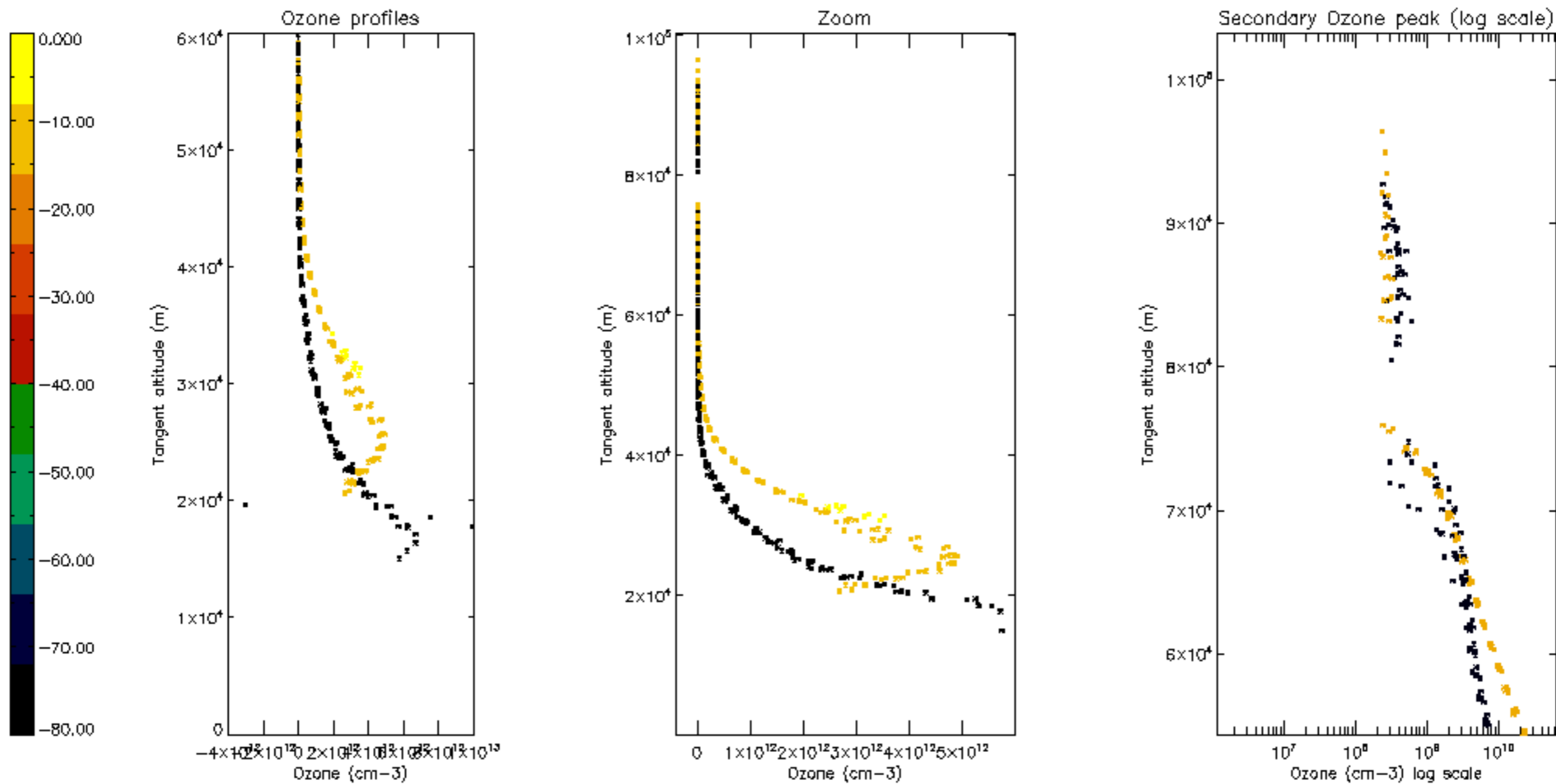
Percentage of saturation errors per profile



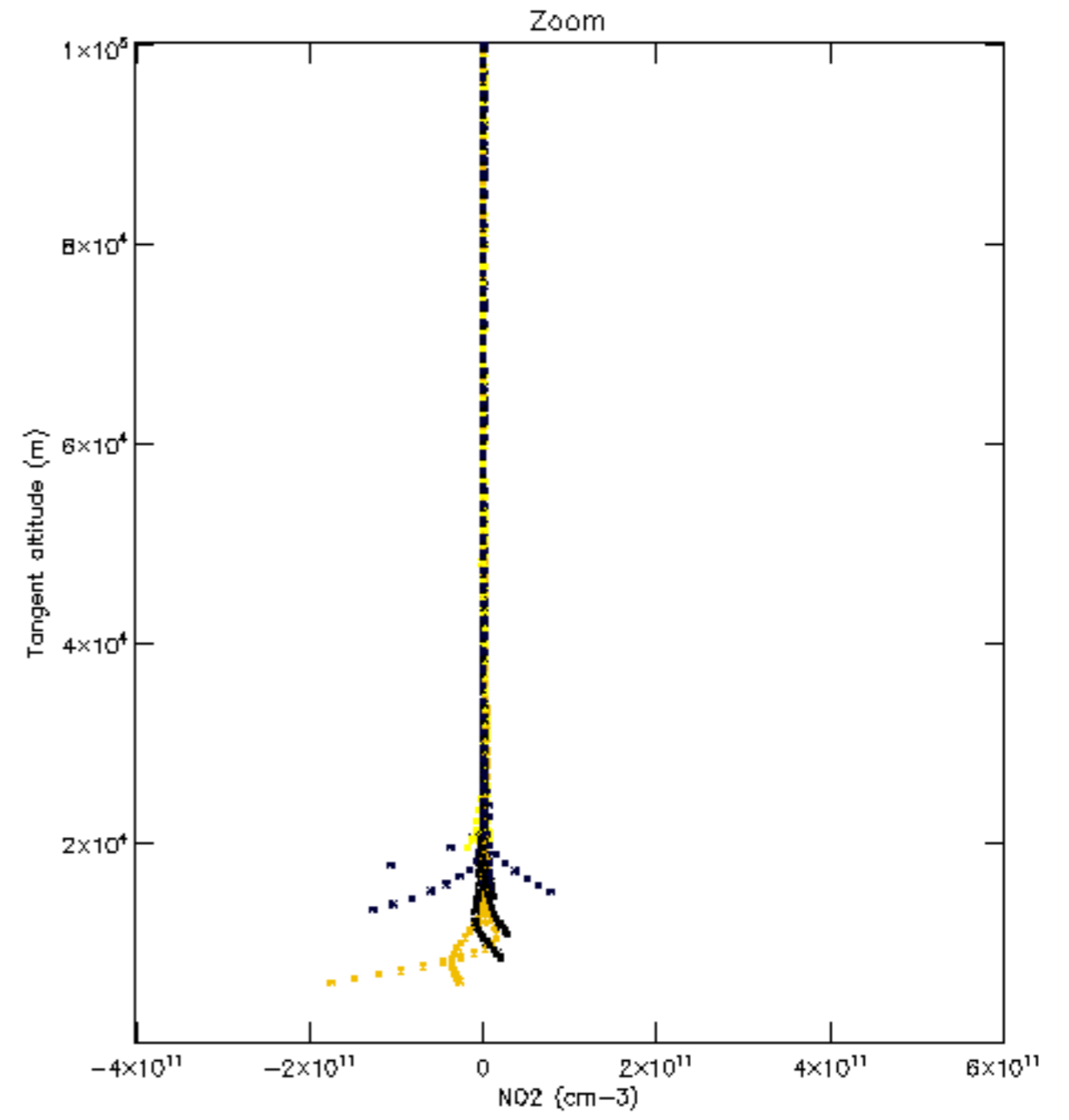
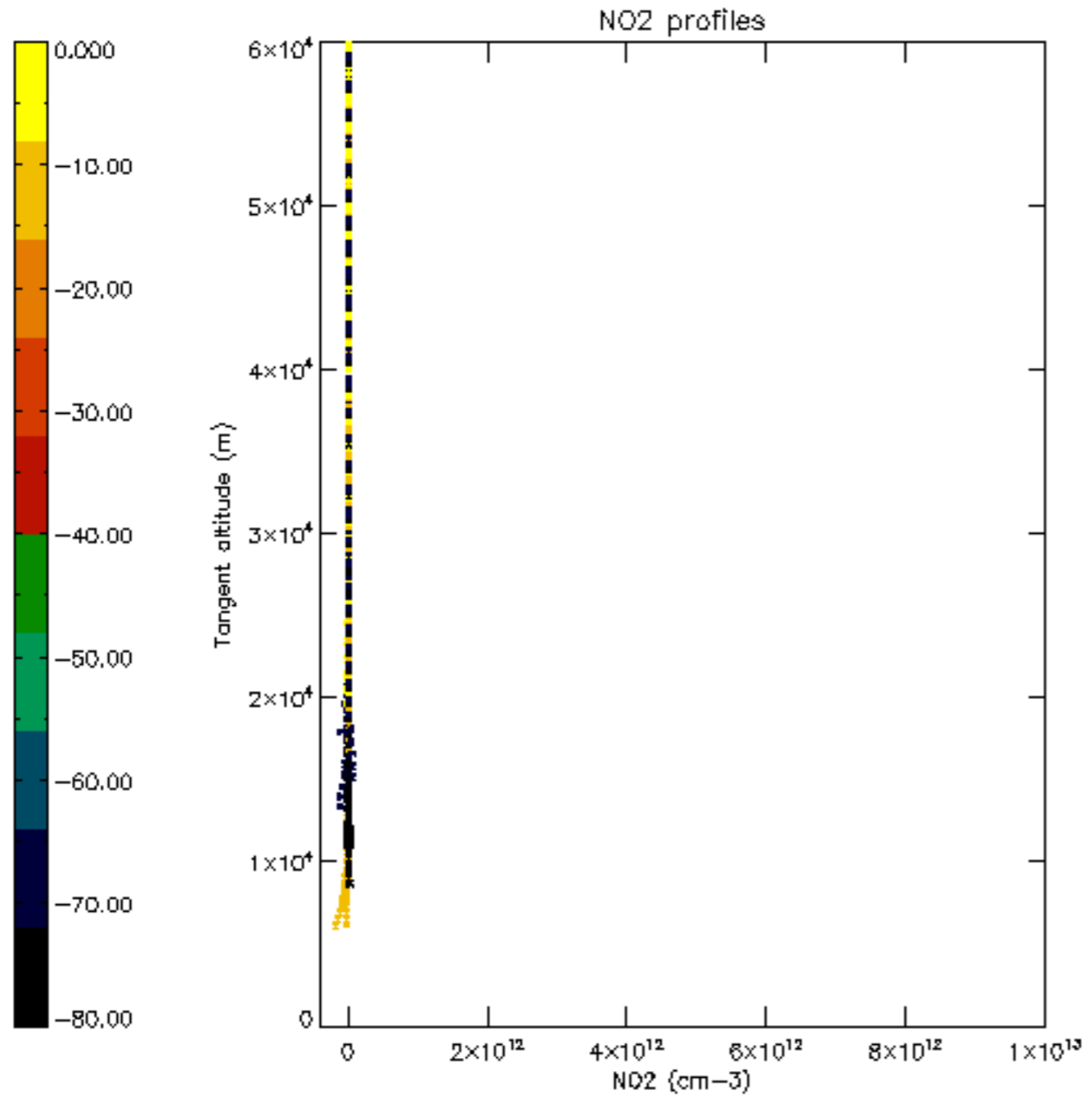


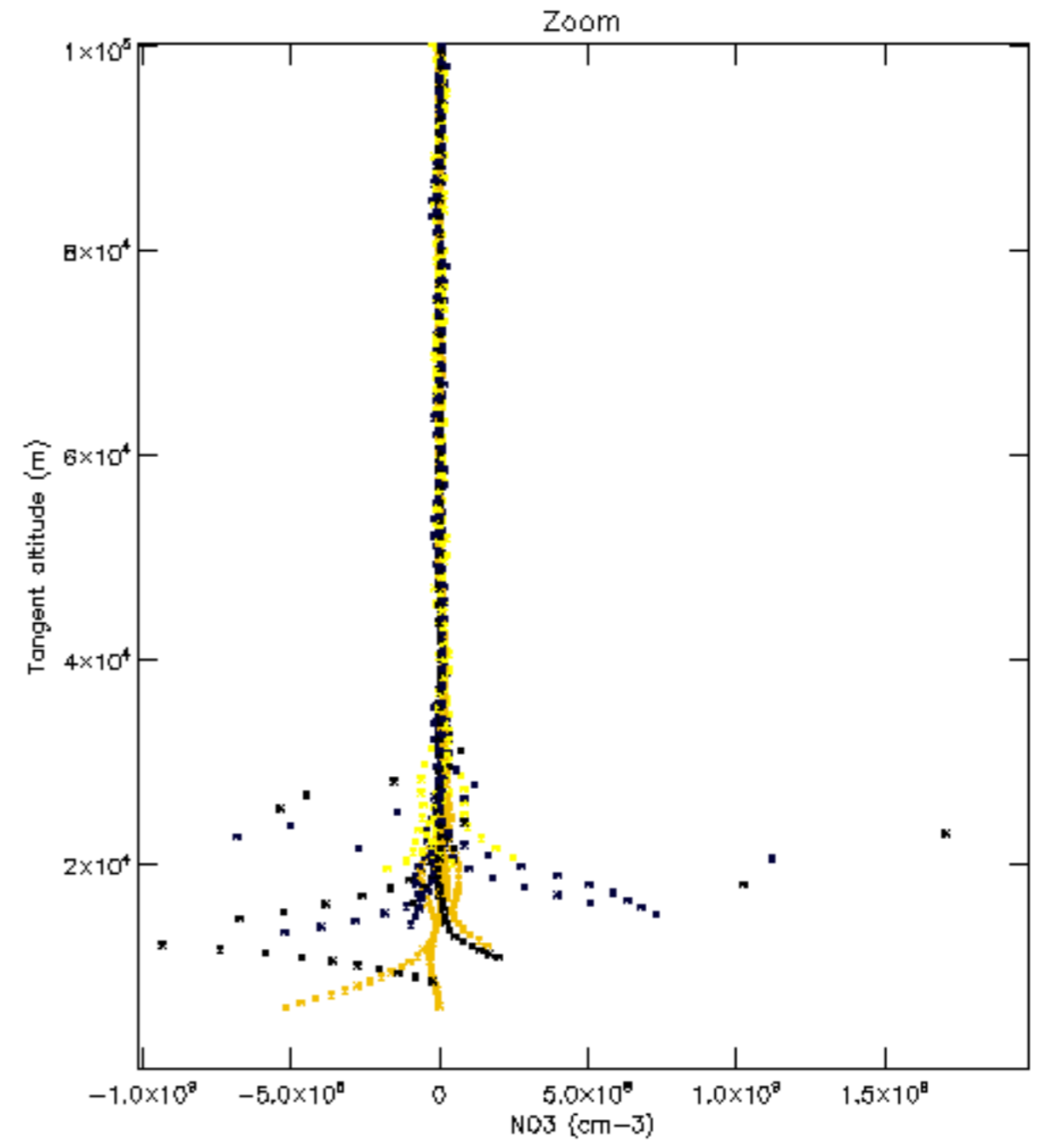
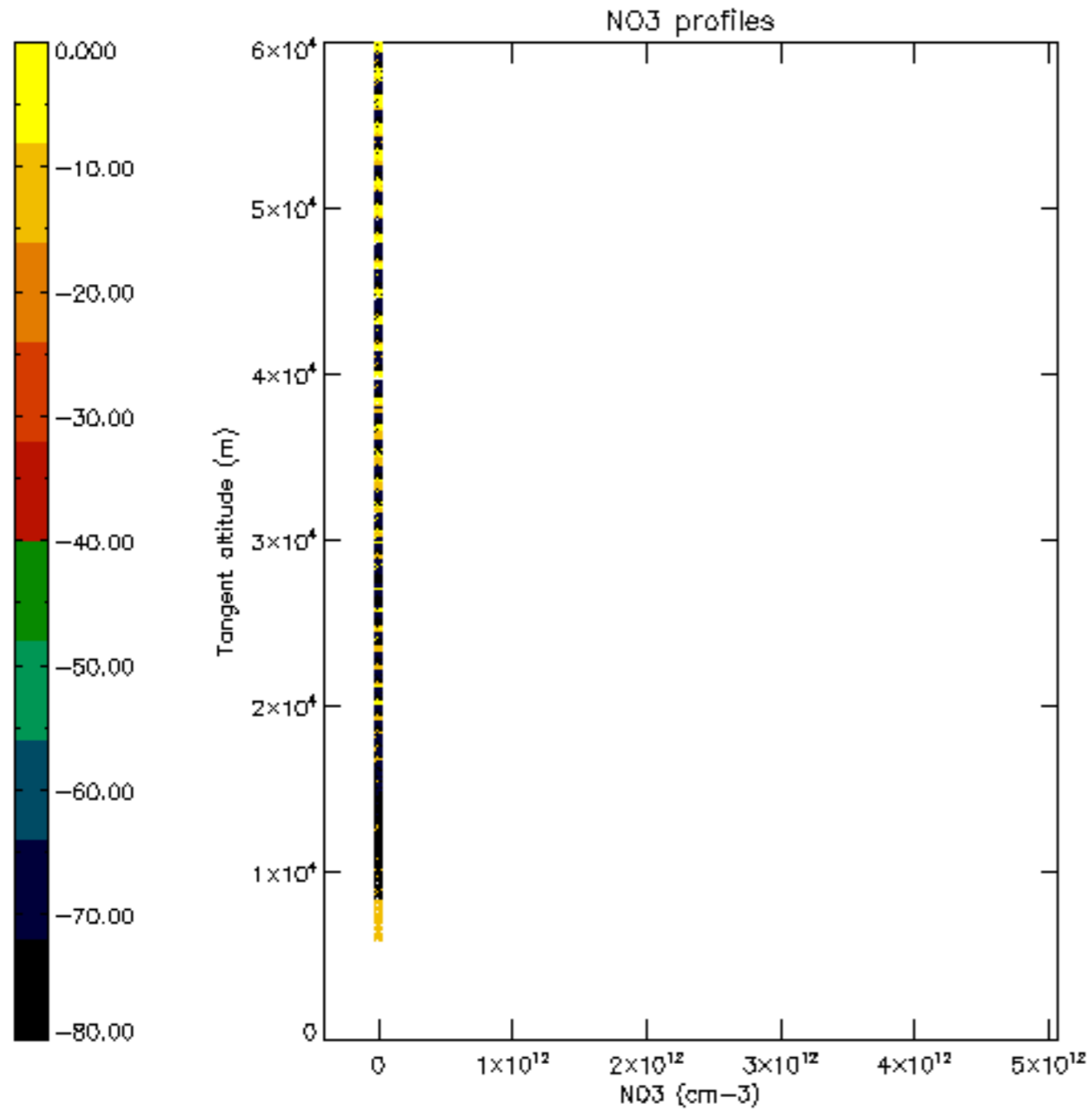


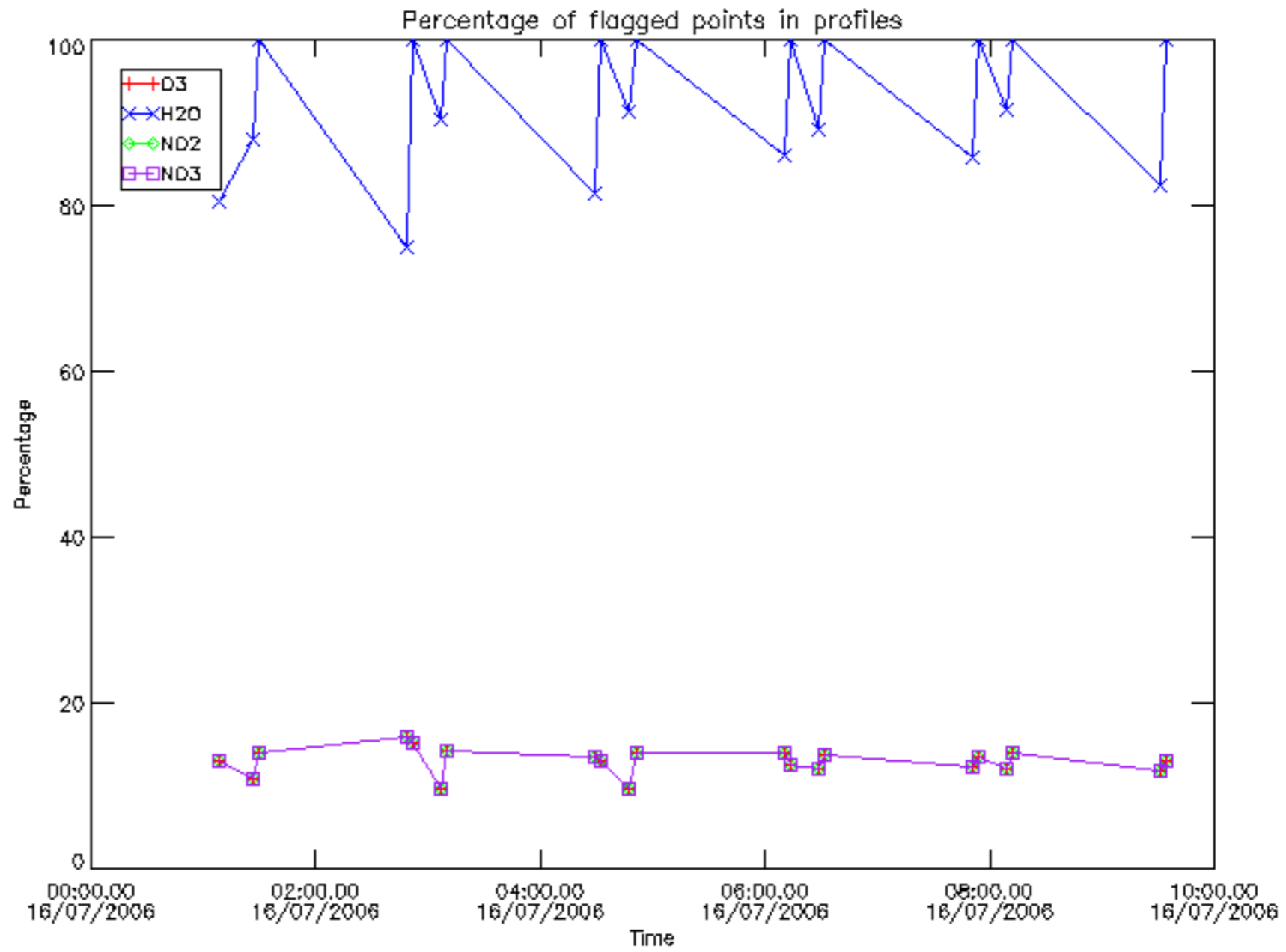




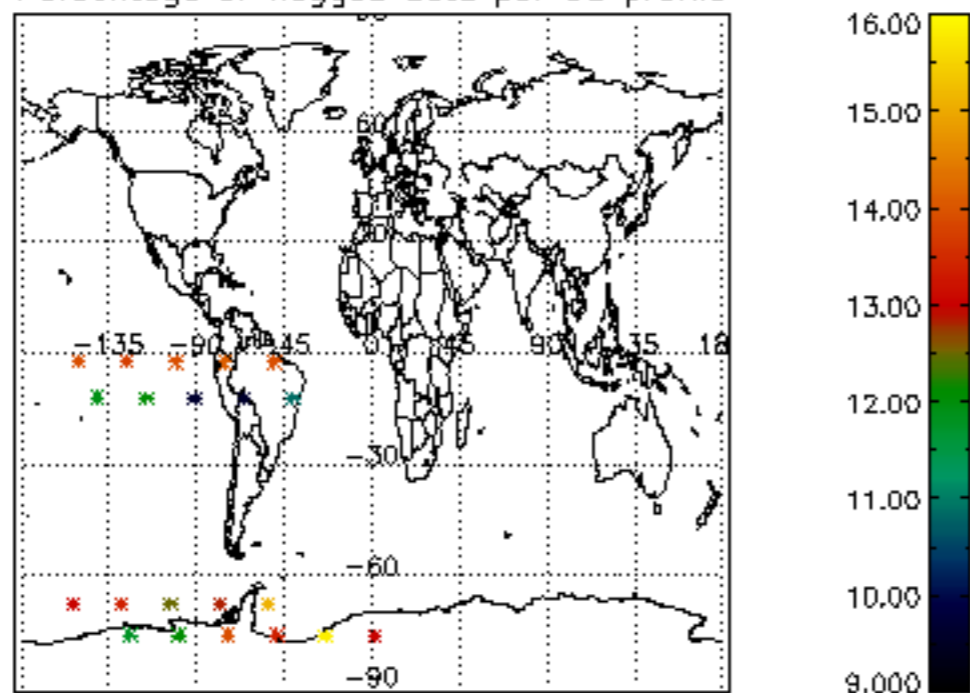




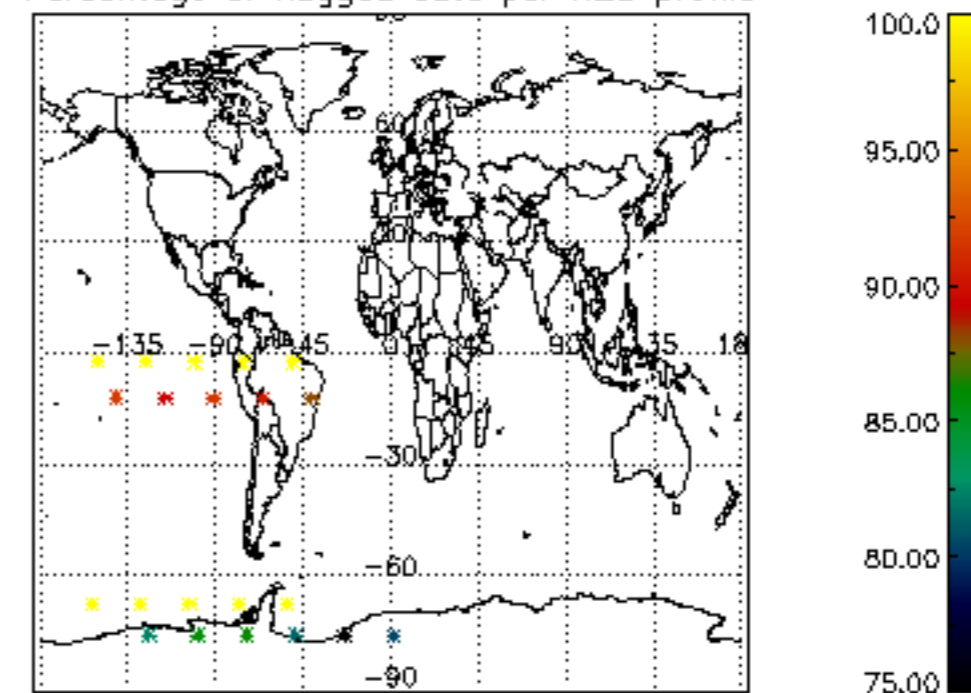




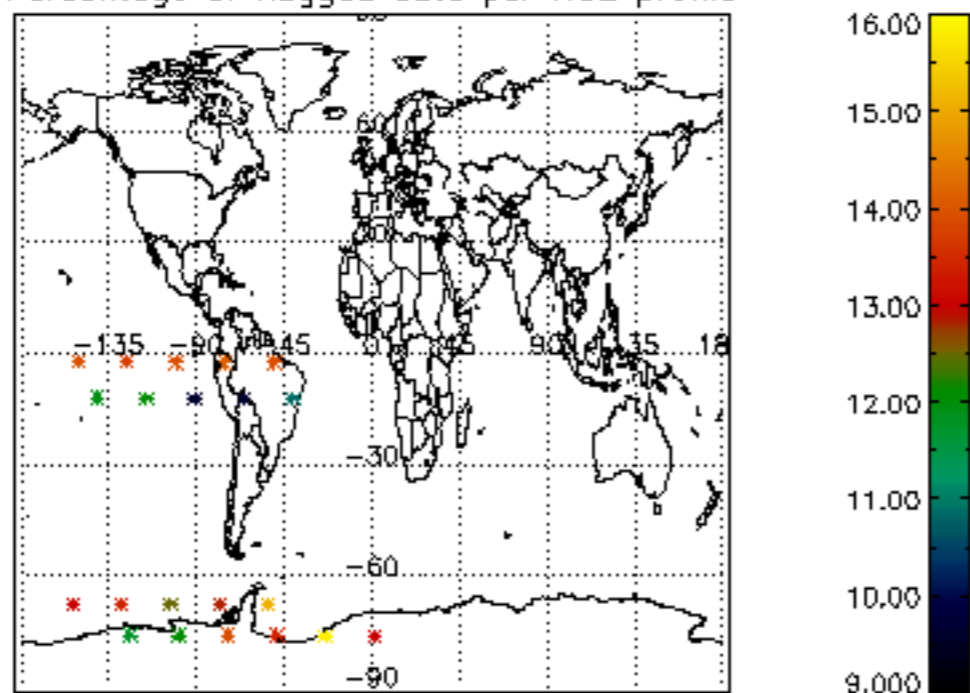
Percentage of flagged data per D3 profile



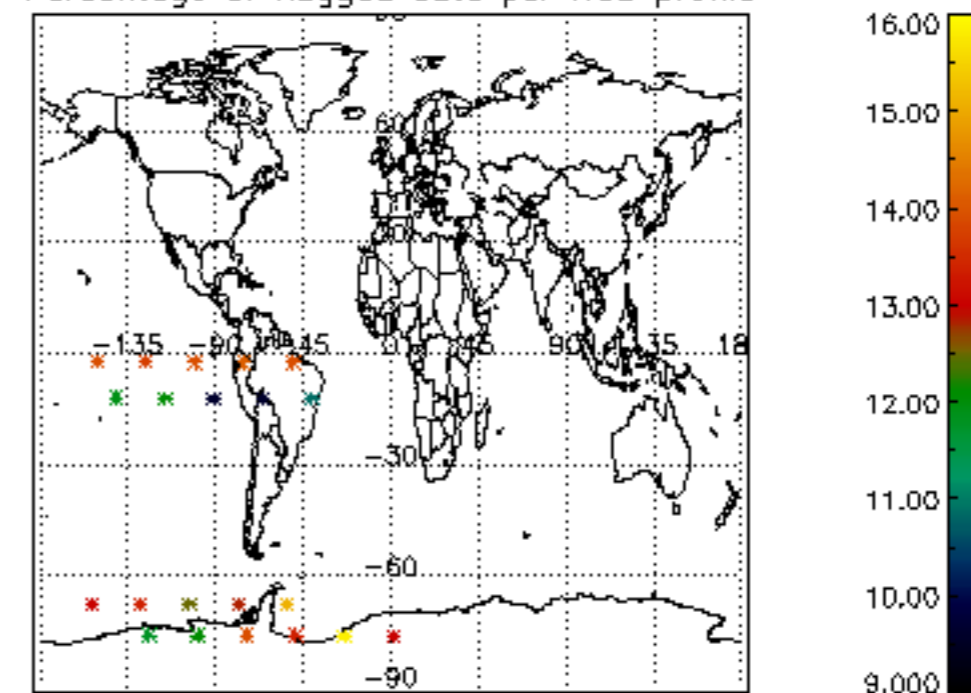
Percentage of flagged data per H2O profile

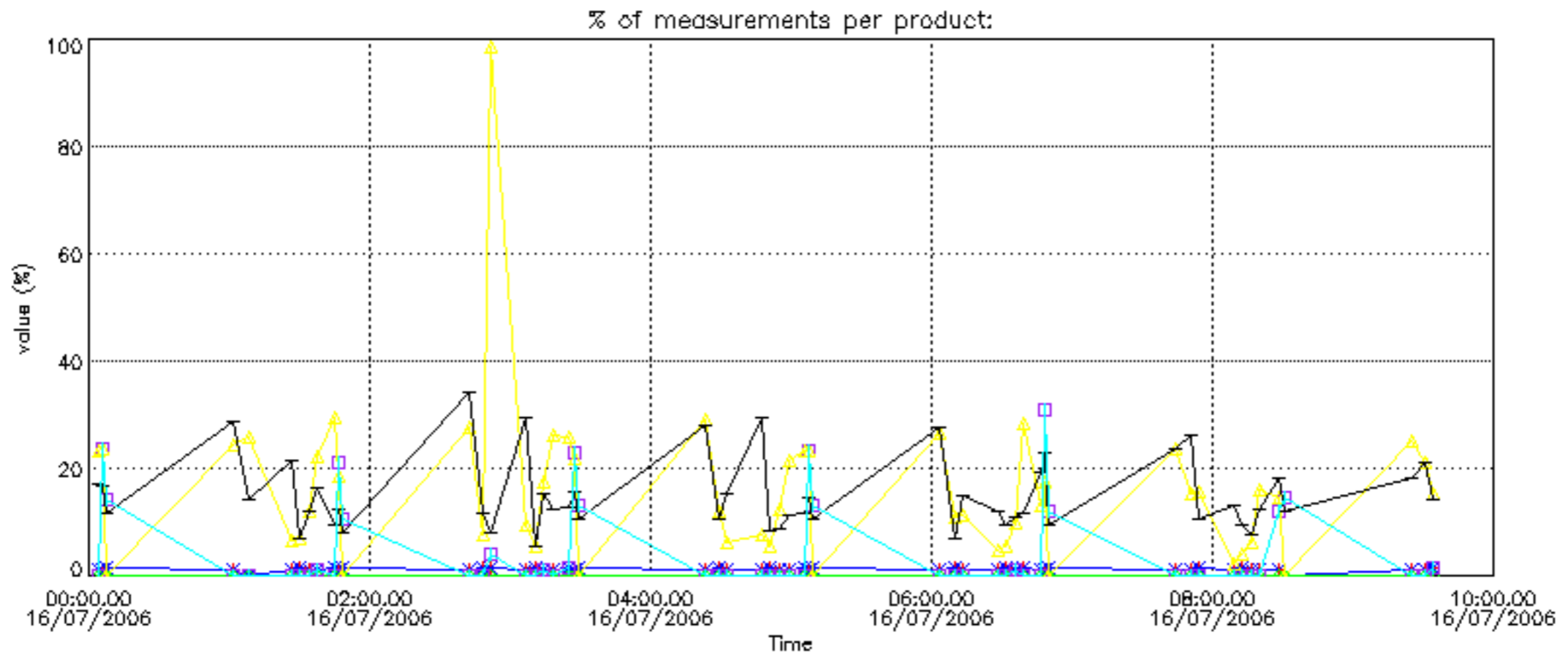


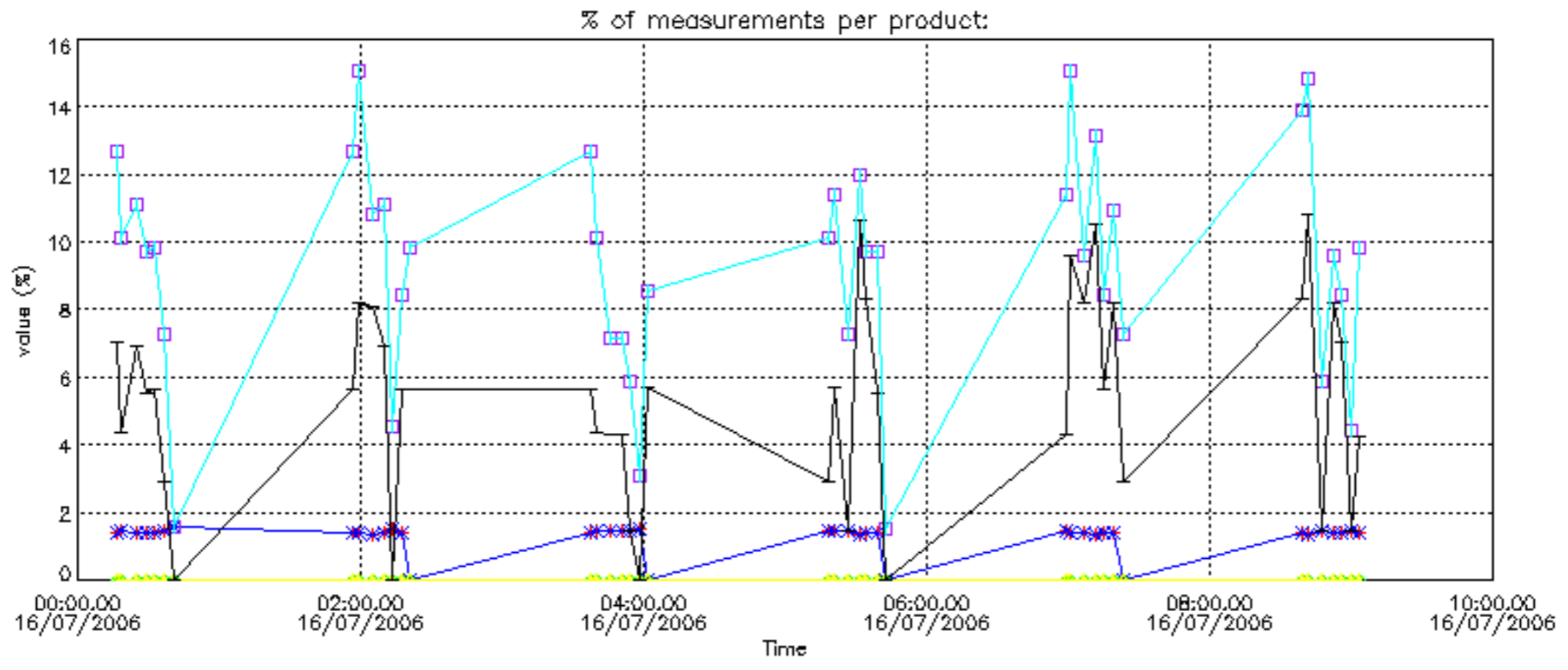
Percentage of flagged data per NO2 profile



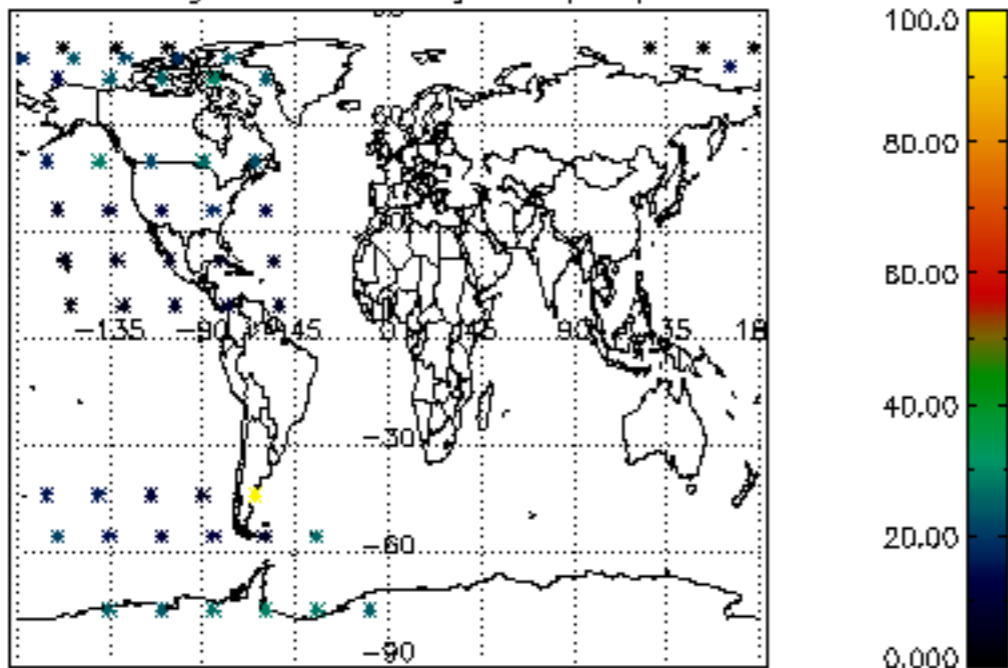
Percentage of flagged data per NO3 profile



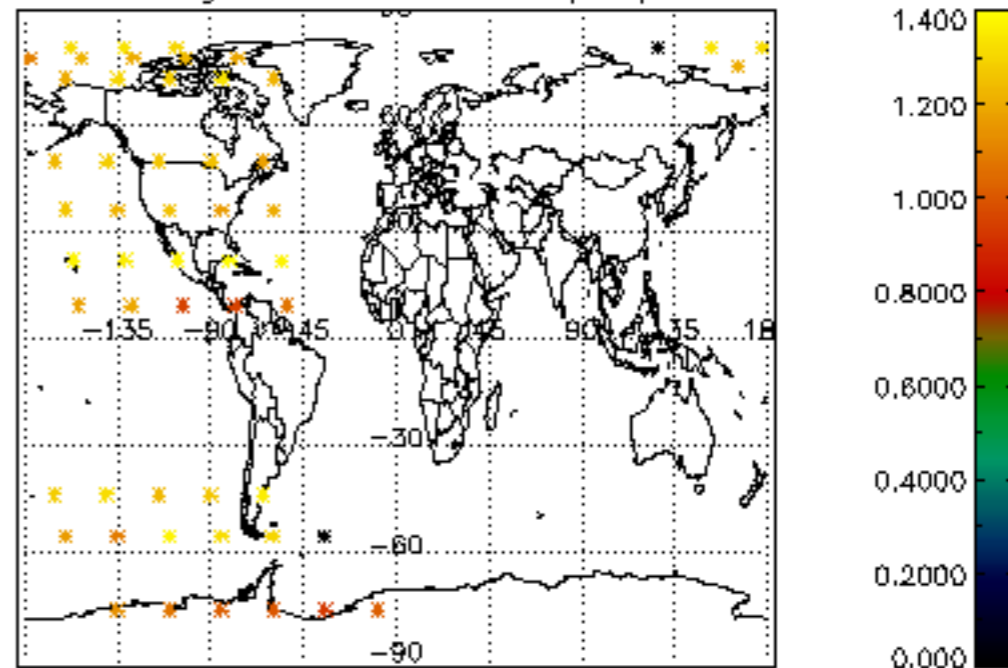




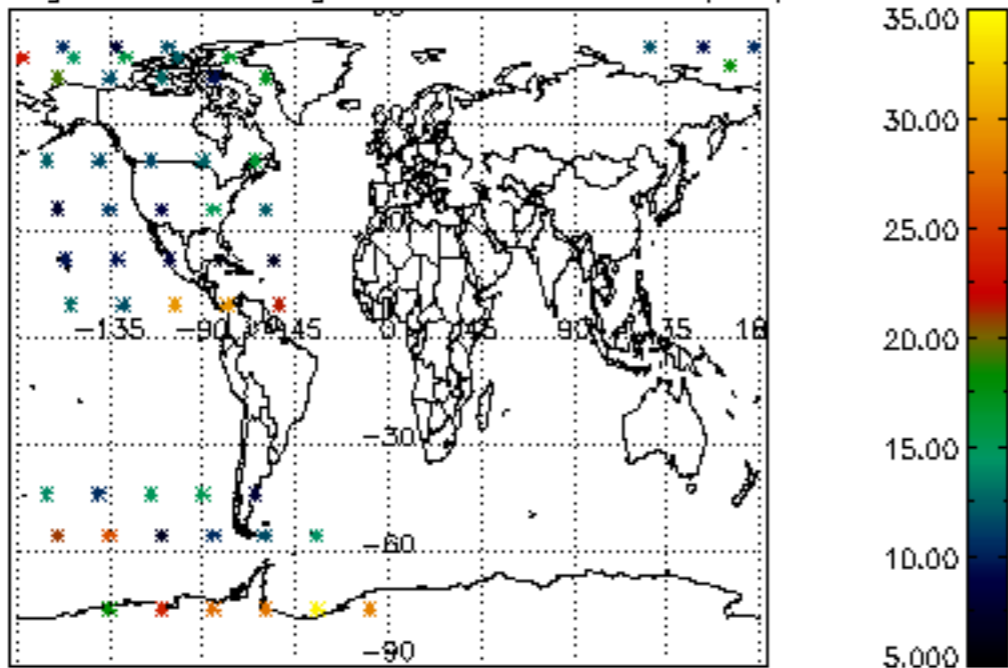
Percentage of cosmic ray hits per profile



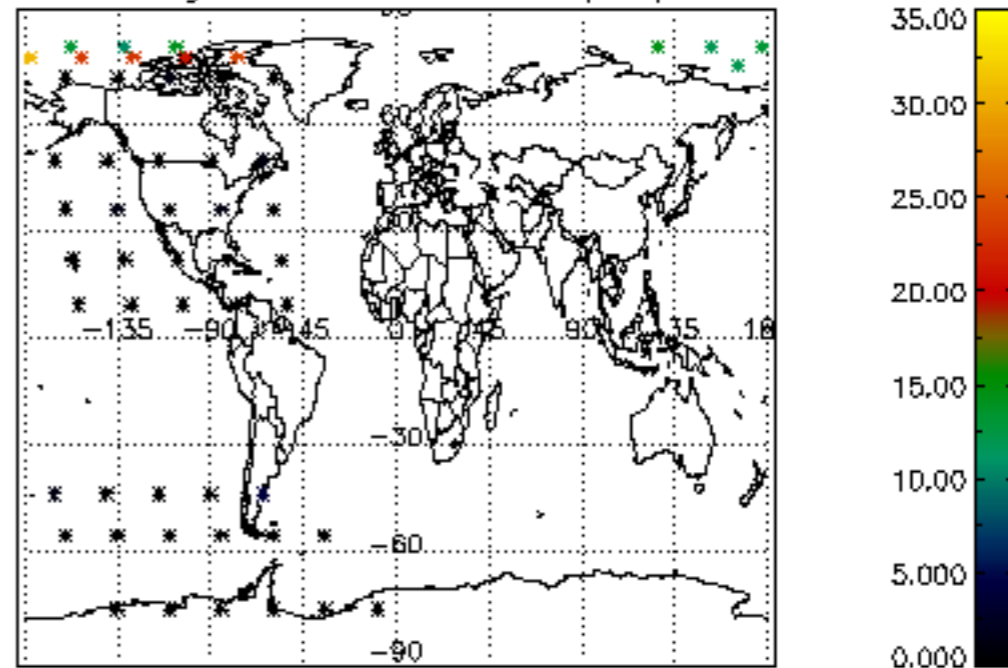
Percentage of datation errors per profile



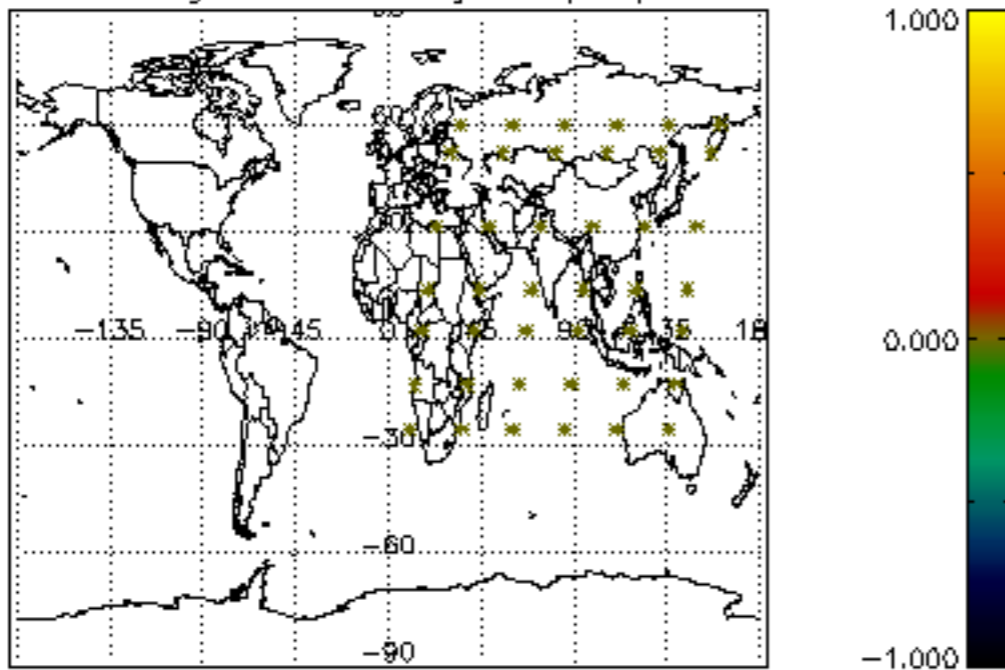
Percentage of star falling outside central band per profile



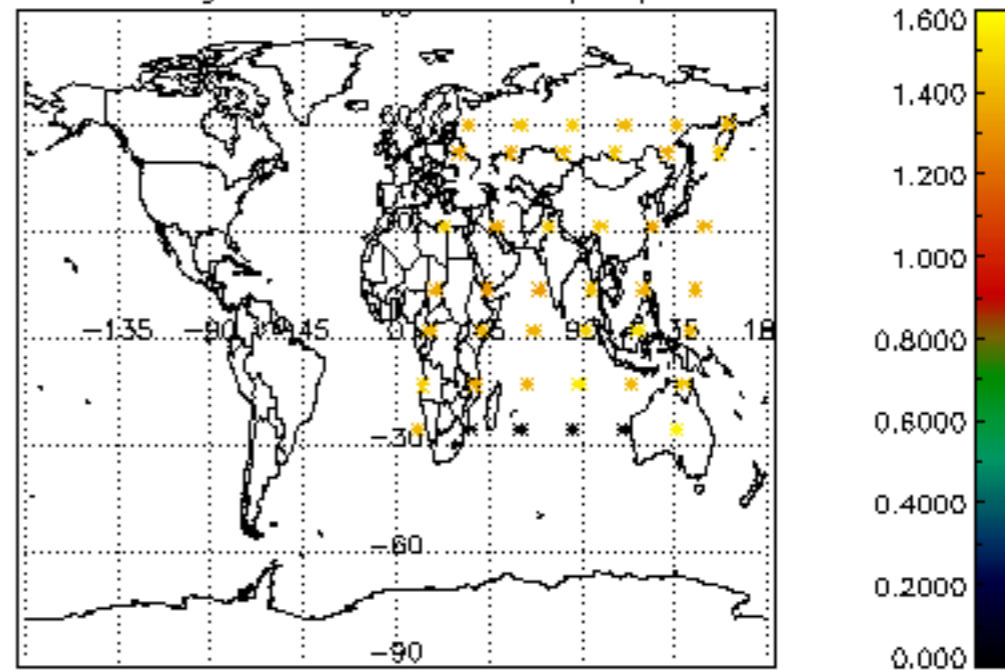
Percentage of saturation errors per profile



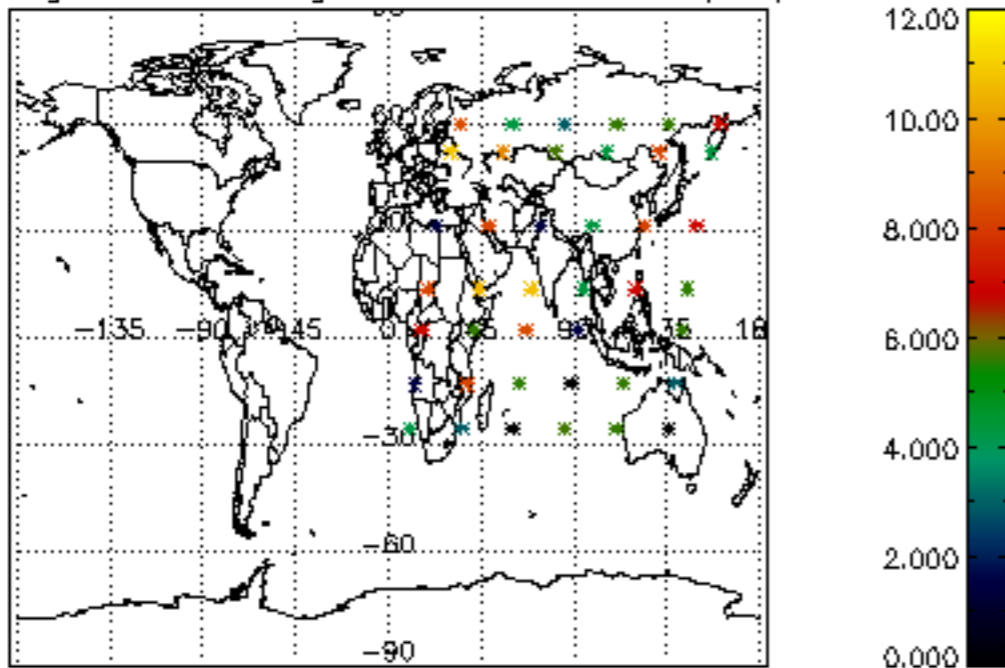
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

