

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

[2. Summary of processed GOM_NL_2P products](#)

[3. Level 2 Quality information per product](#)

[3.1 Plot of level 2 quality information per product \(time dependant\)](#)

[3.2 Plot of level 2 quality information per product \(world map\)](#)

[4. Level 1 Quality information per product \(stored on level 2 products\)](#)

[4.1 Plot of level 1 quality information per product \(time dependant\)](#)

[4.1.1 Plot of level 1 quality information per product \(time dependant\): ASCENDING](#)

[4.1.2 Plot of level 1 quality information per product \(time dependant\): DESCENDING](#)

[4.2 Plot of level 1 quality information per product \(world map\)](#)

[4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

[4.2.2 Plot of level 1 quality information per product \(world map\): DESCENDING](#)

[5. Ozone profiles based on quality statistics and other trace gas profiles](#)

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

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

[5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

[5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

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

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

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

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

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

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

Item	Value
Time of report generation	17APR2013 20:03:45
Data source version	GOMOS/6.01
Start time of products	10-11-2002 (10NOV2002 00:00:00)
Stop time of products	11-11-2002 (11NOV2002 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	121
Nb of prods with errors	3

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__2PRFIN20021110_000201_00000852011_00073_03634_1534.N1	10-NOV-2002 00:02:01	Bright	85.000	166	17Eps Leo	2.9800	6000.0	170	3634	No
2	GOM_NL__2PRFIN20021110_000820_000001932011_00073_03634_1535.N1	10-NOV-2002 00:08:20	Dark	193.00	1015	Jupiter	0.0000	0.0000	386	3634	Yes
3	GOM_NL__2PRFIN20021110_001742_000001272011_00073_03634_1536.N1	10-NOV-2002 00:17:42	Dark	127.00	48	30Alp Hya	1.9770	4100.0	254	3634	No
4	GOM_NL__2PRFIN20021110_002106_000000502011_00073_03634_1537.N1	10-NOV-2002 00:21:06	Dark	49.500	26	Gam Cru	1.6240	2900.0	99	3634	No
5	GOM_NL__2PRFIN20021110_002245_000000492011_00073_03634_1538.N1	10-NOV-2002 00:22:45	Dark	48.500	12	Alp1Cru	0.77500	30000.	97	3634	No
6	GOM_NL__2PRFIN20021110_002443_000000622011_00074_03635_1425.N1	10-NOV-2002 00:24:43	Dark	62.000	65	Lam Vel	2.2040	4400.0	124	3635	No
7	GOM_NL__2PRFIN20021110_002721_000000462011_00074_03635_1426.N1	10-NOV-2002 00:27:21	Dark	46.000	29	Bet Car	1.6720	10200.	92	3635	No
8	GOM_NL__2PRFIN20021110_003409_000000952011_00074_03635_1427.N1	10-NOV-2002 00:34:09	Dark	94.500	88	31Eta CMa	2.4480	20000.	189	3635	No
9	GOM_NL__2PRFIN20021110_003750_000000442011_00074_03635_1428.N1	10-NOV-2002 00:37:50	Dark	44.000	143	Alp Hyi	2.8570	7200.0	88	3635	No
10	GOM_NL__2PRFIN20021110_003911_000000502011_00074_03635_1429.N1	10-NOV-2002 00:39:11	Dark	50.000	9	Alp Eri	0.45300	24000.	100	3635	No
11	GOM_NL__2PRFIN20021110_004248_000000472011_00074_03635_1430.N1	10-NOV-2002 00:42:48	Straylight	46.500	157	The1Eri	2.9060	9300.0	93	3635	No
12	GOM_NL__2PRFIN20021110_004632_000001762011_00074_03635_1431.N1	10-NOV-2002 00:46:32	Straylight	176.00	47	2Bet CMa	1.9760	28000.	352	3635	No
13	GOM_NL__2PRFIN20021110_005337_000001432011_00074_03635_1432.N1	10-NOV-2002 00:53:37	Twilight_and_stray	143.00	7	19Bet Ori	0.10000	14000.	286	3635	No
14	GOM_NL__2PRFIN20021110_010050_000000472011_00074_03635_1433.N1	10-NOV-2002 01:00:50	Bright	46.500	105	6Bet Ari	2.6450	8900.0	93	3635	No
15	GOM_NL__2PRFIN20021110_010412_000000442011_00074_03635_1434.N1	10-NOV-2002 01:04:12	Bright	43.500	58	21Alp And	2.0730	11000.	87	3635	No
16	GOM_NL__2PRFIN20021110_010702_000000472011_00074_03635_1435.N1	10-NOV-2002 01:07:02	Bright	46.500	73	57Gam1And	2.2600	13100.	93	3635	No
17	GOM_NL__2PRFIN20021110_011514_000000712011_00074_03635_1436.N1	10-NOV-2002 01:15:14	Bright	71.000	6	13Alp Aur	0.080000	3400.0	142	3635	No
18	GOM_NL__2PRFIN20021110_012010_000000462011_00074_03635_1437.N1	10-NOV-2002 01:20:10	Bright	45.500	49	1Alp UMi	1.9900	6300.0	91	3635	No
19	GOM_NL__2PRFIN20021110_012420_000000452011_00074_03635_1438.N1	10-NOV-2002 01:24:20	Bright	45.000	60	7Bet UMi	2.0810	3950.0	90	3635	No
20	GOM_NL__2PRFIN20021110_012801_000000522011_00074_03635_1439.N1	10-NOV-2002 01:28:01	Bright	51.500	36	50Alp UMa	1.8000	6300.0	103	3635	No
21	GOM_NL__2PRFIN20021110_012941_000000492011_00074_03635_1440.N1	10-NOV-2002 01:29:41	Bright	49.000	82	48Bet UMa	2.3650	10600.	98	3635	No
22	GOM_NL__2PRFIN20021110_013137_000000412011_00074_03635_1441.N1	10-NOV-2002 01:31:37	Bright	41.000	39	85Eta UMa	1.8540	24000.	82	3635	No
23	GOM_NL__2PRFIN20021110_013406_000000512011_00074_03635_1442.N1	10-NOV-2002 01:34:06	Bright	51.000	180	27Gam Boo	3.0400	8000.0	102	3635	No
24	GOM_NL__2PRFIN20021110_014238_000000842011_00074_03635_1443.N1	10-NOV-2002 01:42:38	Bright	83.500	166	17Eps Leo	2.9800	6000.0	167	3635	No
25	GOM_NL__2PRFIN20021110_014858_000001632011_00074_03635_1444.N1	10-NOV-2002 01:48:58	Dark	162.50	1015	Jupiter	0.0000	0.0000	325	3635	Yes
26	GOM_NL__2PRFIN20021110_015820_000001162011_00074_03635_1445.N1	10-NOV-2002 01:58:20	Dark	116.00	48	30Alp Hya	1.9770	4100.0	232	3635	No
27	GOM_NL__2PRFIN20021110_020142_000000532011_00074_03635_1446.N1	10-NOV-2002 02:01:42	Dark	53.000	26	Gam Cru	1.6240	2900.0	106	3635	No
28	GOM_NL__2PRFIN20021110_020321_000000462011_00074_03635_1447.N1	10-NOV-2002 02:03:21	Dark	45.500	12	Alp1Cru	0.77500	30000.	91	3635	No
29	GOM_NL__2PRFIN20021110_020521_000000572011_00075_03636_1425.N1	10-NOV-2002 02:05:21	Dark	56.500	65	Lam Vel	2.2040	4400.0	113	3636	No
30	GOM_NL__2PRFIN20021110_020758_000000482011_00075_03636_1426.N1	10-NOV-2002 02:07:58	Dark	47.500	29	Bet Car	1.6720	10200.	95	3636	No
31	GOM_NL__2PRFIN20021110_021447_000000972011_00075_03636_1427.N1	10-NOV-2002 02:14:47	Dark	96.500	88	31Eta CMa	2.4480	20000.	193	3636	No
32	GOM_NL__2PRFIN20021110_021826_000000452011_00075_03636_1428.N1	10-NOV-2002 02:18:26	Dark	44.500	143	Alp Hyi	2.8570	7200.0	89	3636	No
33	GOM_NL__2PRFIN20021110_021947_000000472011_00075_03636_1429.N1	10-NOV-2002 02:19:47	Dark	47.000	9	Alp Eri	0.45300	24000.	94	3636	No
34	GOM_NL__2PRFIN20021110_022324_000000482011_00075_03636_1430.N1	10-NOV-2002 02:23:24	Straylight	48.000	157	The1Eri	2.9060	9300.0	96	3636	No
35	GOM_NL__2PRFIN20021110_022709_000000632011_00075_03636_1431.N1	10-NOV-2002 02:27:09	Straylight	63.000	47	2Bet CMa	1.9760	28000.	126	3636	No
36	GOM_NL__2PRFIN20021110_054822_000001722011_00077_03638_9563.N1	10-NOV-2002 05:48:22	Straylight	172.00	47	2Bet CMa	1.9760	28000.	344	3638	No
37	GOM_NL__2PRFIN20021110_070711_000000612011_00078_03639_9563.N1	10-NOV-2002 07:07:11	Dark	61.000	65	Lam Vel	2.2040	4400.0	122	3639	No
38	GOM_NL__2PRFIN20021110_070947_000000492011_00078_03639_9564.N1	10-NOV-2002 07:09:47	Dark	49.000	29	Bet Car	1.6720	10200.	98	3639	No
39	GOM_NL__2PRFIN20021110_071640_000000932011_00078_03639_9565.N1	10-NOV-2002 07:16:40	Dark	93.000	88	31Eta CMa	2.4480	20000.	186	3639	No
40	GOM_NL__2PRFIN20021110_072014_000000442011_00078_03639_9566.N1	10-NOV-2002 07:20:14	Dark	44.000	143	Alp Hyi	2.8570	7200.0	88	3639	No
41	GOM_NL__2PRFIN20021110_072136_000000492011_00078_03639_9567.N1	10-NOV-2002 07:21:36	Dark	49.000	9	Alp Eri	0.45300	24000.	98	3639	No
42	GOM_NL__2PRFIN20021110_072512_000000492011_00078_03639_9568.N1	10-NOV-2002 07:25:12	Straylight	49.000	157	The1Eri	2.9060	9300.0	98	3639	No

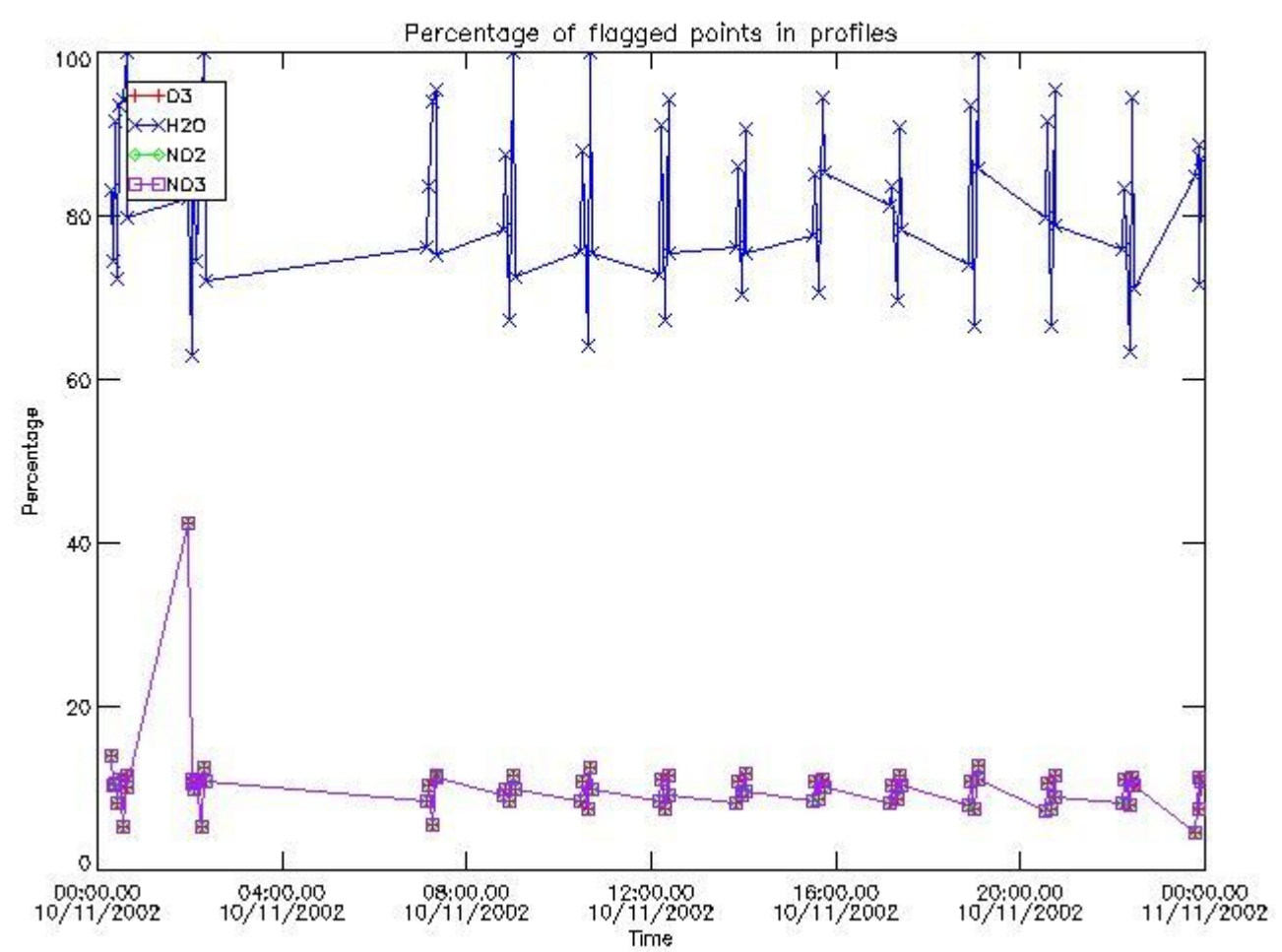
43	GOM_NL__2PRFIN20021110_072859_000001702011_00078_03639_9569.N1	10-NOV-2002 07:28:59	Straylight	169.50	47	2Bet CMa	1.9760	28000.	339	3639	No
44	GOM_NL__2PRFIN20021110_073558_000001192011_00078_03639_9570.N1	10-NOV-2002 07:35:58	Tw_i_and_stray	119.00	7	19Bet Ori	0.10000	14000.	238	3639	No
45	GOM_NL__2PRFIN20021110_084748_000000562011_00079_03640_9563.N1	10-NOV-2002 08:47:48	Dark	56.000	65	Lam Vel	2.2040	4400.0	112	3640	No
46	GOM_NL__2PRFIN20021110_085023_000000522011_00079_03640_9564.N1	10-NOV-2002 08:50:23	Dark	52.000	29	Bet Car	1.6720	10200.	104	3640	No
47	GOM_NL__2PRFIN20021110_085629_000000602011_00079_03640_9565.N1	10-NOV-2002 08:56:29	Dark	60.000	2	Alp Car	-0.73600	7000.0	120	3640	No
48	GOM_NL__2PRFIN20021110_090051_000000442011_00079_03640_9566.N1	10-NOV-2002 09:00:51	Dark	44.000	143	Alp Hyi	2.8570	7200.0	88	3640	No
49	GOM_NL__2PRFIN20021110_090212_000000522011_00079_03640_9567.N1	10-NOV-2002 09:02:12	Dark	51.500	9	Alp Eri	0.45300	24000.	103	3640	No
50	GOM_NL__2PRFIN20021110_090549_000000482011_00079_03640_9568.N1	10-NOV-2002 09:05:49	Straylight	47.500	157	The1Eri	2.9060	9300.0	95	3640	No
51	GOM_NL__2PRFIN20021110_091014_000002172011_00079_03640_9569.N1	10-NOV-2002 09:10:14	Tw_i_and_stray	216.50	1	9Alp CMa	-1.4400	11000.	433	3640	No
52	GOM_NL__2PRFIN20021110_091633_000001192011_00079_03640_9570.N1	10-NOV-2002 09:16:33	Tw_i_and_stray	119.00	7	19Bet Ori	0.10000	14000.	238	3640	No
53	GOM_NL__2PRFIN20021110_102825_000000602011_00080_03641_9563.N1	10-NOV-2002 10:28:25	Dark	60.000	65	Lam Vel	2.2040	4400.0	120	3641	No
54	GOM_NL__2PRFIN20021110_103100_000000472011_00080_03641_9564.N1	10-NOV-2002 10:31:00	Dark	46.500	29	Bet Car	1.6720	10200.	93	3641	No
55	GOM_NL__2PRFIN20021110_103706_000000692011_00080_03641_9565.N1	10-NOV-2002 10:37:06	Dark	68.500	2	Alp Car	-0.73600	7000.0	137	3641	No
56	GOM_NL__2PRFIN20021110_104127_000000452011_00080_03641_9566.N1	10-NOV-2002 10:41:27	Dark	44.500	143	Alp Hyi	2.8570	7200.0	89	3641	No
57	GOM_NL__2PRFIN20021110_104248_000000522011_00080_03641_9567.N1	10-NOV-2002 10:42:48	Dark	51.500	9	Alp Eri	0.45300	24000.	103	3641	No
58	GOM_NL__2PRFIN20021110_104625_000000482011_00080_03641_9568.N1	10-NOV-2002 10:46:25	Straylight	48.000	157	The1Eri	2.9060	9300.0	96	3641	No
59	GOM_NL__2PRFIN20021110_105051_000002172011_00080_03641_9569.N1	10-NOV-2002 10:50:51	Tw_i_and_stray	217.00	1	9Alp CMa	-1.4400	11000.	434	3641	No
60	GOM_NL__2PRFIN20021110_120903_000000612011_00081_03642_9563.N1	10-NOV-2002 12:09:03	Dark	61.000	65	Lam Vel	2.2040	4400.0	122	3642	No
61	GOM_NL__2PRFIN20021110_121136_000000462011_00081_03642_9564.N1	10-NOV-2002 12:11:36	Dark	45.500	29	Bet Car	1.6720	10200.	91	3642	No
62	GOM_NL__2PRFIN20021110_121743_000000692011_00081_03642_9565.N1	10-NOV-2002 12:17:43	Dark	69.000	2	Alp Car	-0.73600	7000.0	138	3642	No
63	GOM_NL__2PRFIN20021110_122203_000000442011_00081_03642_9566.N1	10-NOV-2002 12:22:03	Dark	44.000	143	Alp Hyi	2.8570	7200.0	88	3642	No
64	GOM_NL__2PRFIN20021110_122324_000000562011_00081_03642_9567.N1	10-NOV-2002 12:23:24	Dark	55.500	9	Alp Eri	0.45300	24000.	111	3642	No
65	GOM_NL__2PRFIN20021110_122702_000000472011_00081_03642_9568.N1	10-NOV-2002 12:27:02	Straylight	46.500	157	The1Eri	2.9060	9300.0	93	3642	No
66	GOM_NL__2PRFIN20021110_123127_000002172011_00081_03642_9569.N1	10-NOV-2002 12:31:27	Tw_i_and_stray	217.00	1	9Alp CMa	-1.4400	11000.	434	3642	No
67	GOM_NL__2PRFIN20021110_134940_000000622011_00082_03643_9563.N1	10-NOV-2002 13:49:40	Dark	61.500	65	Lam Vel	2.2040	4400.0	123	3643	No
68	GOM_NL__2PRFIN20021110_135213_000000472011_00082_03643_9564.N1	10-NOV-2002 13:52:13	Dark	47.000	29	Bet Car	1.6720	10200.	94	3643	No
69	GOM_NL__2PRFIN20021110_135820_000000562011_00082_03643_9565.N1	10-NOV-2002 13:58:20	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	3643	No
70	GOM_NL__2PRFIN20021110_140239_000000432011_00082_03643_9566.N1	10-NOV-2002 14:02:39	Dark	43.000	143	Alp Hyi	2.8570	7200.0	86	3643	No
71	GOM_NL__2PRFIN20021110_140400_000000542011_00082_03643_9567.N1	10-NOV-2002 14:04:00	Dark	53.500	9	Alp Eri	0.45300	24000.	107	3643	No
72	GOM_NL__2PRFIN20021110_140738_000000462011_00082_03643_9568.N1	10-NOV-2002 14:07:38	Straylight	45.500	157	The1Eri	2.9060	9300.0	91	3643	No
73	GOM_NL__2PRFIN20021110_153015_000000612011_00083_03644_9563.N1	10-NOV-2002 15:30:15	Dark	61.000	65	Lam Vel	2.2040	4400.0	122	3644	No
74	GOM_NL__2PRFIN20021110_153248_000000472011_00083_03644_9564.N1	10-NOV-2002 15:32:48	Dark	47.000	29	Bet Car	1.6720	10200.	94	3644	No
75	GOM_NL__2PRFIN20021110_153855_000000592011_00083_03644_9565.N1	10-NOV-2002 15:38:55	Dark	58.500	2	Alp Car	-0.73600	7000.0	117	3644	No
76	GOM_NL__2PRFIN20021110_154315_000000462011_00083_03644_9566.N1	10-NOV-2002 15:43:15	Dark	45.500	143	Alp Hyi	2.8570	7200.0	91	3644	No
77	GOM_NL__2PRFIN20021110_154436_000000552011_00083_03644_9567.N1	10-NOV-2002 15:44:36	Dark	55.000	9	Alp Eri	0.45300	24000.	110	3644	No
78	GOM_NL__2PRFIN20021110_154814_000000472011_00083_03644_9568.N1	10-NOV-2002 15:48:14	Straylight	46.500	157	The1Eri	2.9060	9300.0	93	3644	No
79	GOM_NL__2PRFIN20021110_171052_000000622011_00084_03645_9563.N1	10-NOV-2002 17:10:52	Dark	61.500	65	Lam Vel	2.2040	4400.0	123	3645	No
80	GOM_NL__2PRFIN20021110_171324_000000492011_00084_03645_9564.N1	10-NOV-2002 17:13:24	Dark	49.000	29	Bet Car	1.6720	10200.	98	3645	No
81	GOM_NL__2PRFIN20021110_171932_000000582011_00084_03645_9565.N1	10-NOV-2002 17:19:32	Dark	58.000	2	Alp Car	-0.73600	7000.0	116	3645	No
82	GOM_NL__2PRFIN20021110_172351_000000452011_00084_03645_9566.N1	10-NOV-2002 17:23:51	Dark	44.500	143	Alp Hyi	2.8570	7200.0	89	3645	No
83	GOM_NL__2PRFIN20021110_172512_000000492011_00084_03645_9567.N1	10-NOV-2002 17:25:12	Dark	49.000	9	Alp Eri	0.45300	24000.	98	3645	No
84	GOM_NL__2PRFIN20021110_172850_000000472011_00084_03645_9568.N1	10-NOV-2002 17:28:50	Straylight	46.500	157	The1Eri	2.9060	9300.0	93	3645	No
85	GOM_NL__2PRFIN20021110_185129_000000642011_00085_03646_9563.N1	10-NOV-2002 18:51:29	Dark	64.000	65	Lam Vel	2.2040	4400.0	128	3646	No
86	GOM_NL__2PRFIN20021110_185401_000000472011_00085_03646_9564.N1	10-NOV-2002 18:54:01	Dark	46.500	29	Bet Car	1.6720	10200.	93	3646	No
87	GOM_NL__2PRFIN20021110_190008_000000692011_00085_03646_9565.N1	10-NOV-2002 19:00:08	Dark	69.000	2	Alp Car	-0.73600	7000.0	138	3646	No
88	GOM_NL__2PRFIN20021110_190427_000000442011_00085_03646_9566.N1	10-NOV-2002 19:04:27	Dark	43.500	143	Alp Hyi	2.8570	7200.0	87	3646	No
89	GOM_NL__2PRFIN20021110_190548_000000462011_00085_03646_9567.N1	10-NOV-2002 19:05:48	Dark	46.000	9	Alp Eri	0.45300	24000.	92	3646	No
90	GOM_NL__2PRFIN20021110_190926_000000482011_00085_03646_9568.N1	10-NOV-2002 19:09:26	Straylight	47.500	157	The1Eri	2.9060	9300.0	95	3646	No
91	GOM_NL__2PRFIN20021110_203206_000000702011_00086_03647_9563.N1	10-NOV-2002 20:32:06	Dark	69.500	65	Lam Vel	2.2040	4400.0	139	3647	No
92	GOM_NL__2PRFIN20021110_203437_000000482011_00086_03647_9564.N1	10-NOV-2002 20:34:37	Dark	48.000	29	Bet Car	1.6720	10200.	96	3647	No
93	GOM_NL__2PRFIN20021110_204045_000000692011_00086_03647_9565.N1	10-NOV-2002 20:40:45	Dark	69.000	2	Alp Car	-0.73600	7000.0	138	3647	No
94	GOM_NL__2PRFIN20021110_204503_000000442011_00086_03647_9566.N1	10-NOV-2002 20:45:03	Dark	44.000	143	Alp Hyi	2.8570	7200.0	88	3647	No
95	GOM_NL__2PRFIN20021110_204625_000000572011_00086_03647_9567.N1	10-NOV-2002 20:46:25	Dark	57.000	9	Alp Eri	0.45300	24000.	114	3647	No
96	GOM_NL__2PRFIN20021110_205002_000000492011_00086_03647_9568.N1	10-NOV-2002 20:50:02	Straylight	49.000	157	The1Eri	2.9060	9300.0	98	3647	No
97	GOM_NL__2PRFIN20021110_221243_000000632011_00087_03648_9603.N1	10-NOV-2002 22:12:43	Dark	62.500	65	Lam Vel	2.2040	4400.0	125	3648	No
98	GOM_NL__2PRFIN20021110_221514_000000462011_00087_03648_9604.N1	10-NOV-2002 22:15:14	Dark	45.500	29	Bet Car	1.6720	10200.	91	3648	No
99	GOM_NL__2PRFIN20021110_222122_000000652011_00087_03648_9605.N1	10-NOV-2002 22:21:22	Dark	64.500	2	Alp Car	-0.73600	7000.0	129	3648	No
100	GOM_NL__2PRFIN20021110_222539_000000452011_00087_03648_9606.N1	10-NOV-2002 22:25:39	Dark	45.000	143	Alp Hyi	2.8570	7200.0	90	3648	No
101	GOM_NL__2PRFIN20021110_222700_000000492011_00087_03648_9607.N1	10-NOV-2002 22:27:00	Dark	49.000	9	Alp Eri	0.45300	24000.	98	3648	No

102	GOM_NL__2PRFIN20021110_223039_000000472011_00087_03648_1842.N1	10-NOV-2002 22:30:39	Straylight	47.000	157	The1Eri	2.9060	9300.0	94	3648	No
103	GOM_NL__2PRFIN20021110_223506_000002172011_00087_03648_1843.N1	10-NOV-2002 22:35:06	Tw_i_and_stray	217.00	1	9Alp CMa	-1.4400	11000.	434	3648	No
104	GOM_NL__2PRFIN20021110_224117_000001192011_00087_03648_1844.N1	10-NOV-2002 22:41:17	Tw_i_and_stray	119.00	7	19Bet Ori	0.10000	14000.	238	3648	No
105	GOM_NL__2PRFIN20021110_225244_000000452011_00087_03648_1845.N1	10-NOV-2002 22:52:44	Bright	44.500	173	4Bet Tri	3.0040	8900.0	89	3648	No
106	GOM_NL__2PRFIN20021110_225448_000000482011_00087_03648_1846.N1	10-NOV-2002 22:54:48	Bright	47.500	73	57Gam1And	2.2600	13100.	95	3648	No
107	GOM_NL__2PRFIN20021110_225649_000000552011_00087_03648_1847.N1	10-NOV-2002 22:56:49	Bright	54.500	149	45Eps Per	2.8880	30000.	109	3648	No
108	GOM_NL__2PRFIN20021110_225853_000000442011_00087_03648_1848.N1	10-NOV-2002 22:58:53	Bright	44.000	68	18Alp Cas	2.2250	4500.0	88	3648	No
109	GOM_NL__2PRFIN20021110_230247_000000762011_00087_03648_1849.N1	10-NOV-2002 23:02:47	Bright	75.500	6	13Alp Aur	0.080000	3400.0	151	3648	No
110	GOM_NL__2PRFIN20021110_230757_000000442011_00087_03648_1850.N1	10-NOV-2002 23:07:57	Bright	43.500	49	1Alp UMi	1.9900	6300.0	87	3648	No
111	GOM_NL__2PRFIN20021110_231210_000000432011_00087_03648_1851.N1	10-NOV-2002 23:12:10	Bright	43.000	60	7Bet UMi	2.0810	3950.0	86	3648	No
112	GOM_NL__2PRFIN20021110_231547_000000542011_00087_03648_1852.N1	10-NOV-2002 23:15:47	Bright	54.000	36	50Alp UMa	1.8000	6300.0	108	3648	No
113	GOM_NL__2PRFIN20021110_231726_000000502011_00087_03648_1853.N1	10-NOV-2002 23:17:26	Bright	50.000	82	48Bet UMa	2.3650	10600.	100	3648	No
114	GOM_NL__2PRFIN20021110_231926_000000442011_00087_03648_1854.N1	10-NOV-2002 23:19:26	Bright	44.000	39	85Eta UMa	1.8540	24000.	88	3648	No
115	GOM_NL__2PRFIN20021110_232122_000000482011_00087_03648_1855.N1	10-NOV-2002 23:21:22	Bright	48.000	174	52Psi UMa	3.0040	4400.0	96	3648	No
116	GOM_NL__2PRFIN20021110_233035_000000902011_00087_03648_1856.N1	10-NOV-2002 23:30:35	Bright	89.500	166	17Eps Leo	2.9800	6000.0	179	3648	No
117	GOM_NL__2PRFIN20021110_233713_000002172011_00087_03648_1857.N1	10-NOV-2002 23:37:13	Dark	217.00	1015	Jupiter	0.0000	0.0000	434	3648	Yes
118	GOM_NL__2PRFIN20021110_234635_000001222011_00087_03648_1858.N1	10-NOV-2002 23:46:35	Dark	122.00	48	30Alp Hya	1.9770	4100.0	244	3648	No
119	GOM_NL__2PRFIN20021110_235110_000000452011_00087_03648_1859.N1	10-NOV-2002 23:51:10	Dark	45.000	12	Alp1Cru	0.77500	30000.	90	3648	No
120	GOM_NL__2PRFIN20021110_235321_000000682011_00088_03649_1448.N1	10-NOV-2002 23:53:21	Dark	67.500	65	Lam Vel	2.2040	4400.0	135	3649	No
121	GOM_NL__2PRFIN20021110_235550_000000472011_00088_03649_1449.N1	10-NOV-2002 23:55:50	Dark	46.500	29	Bet Car	1.6720	10200.	93	3649	No

3. Quality information per product

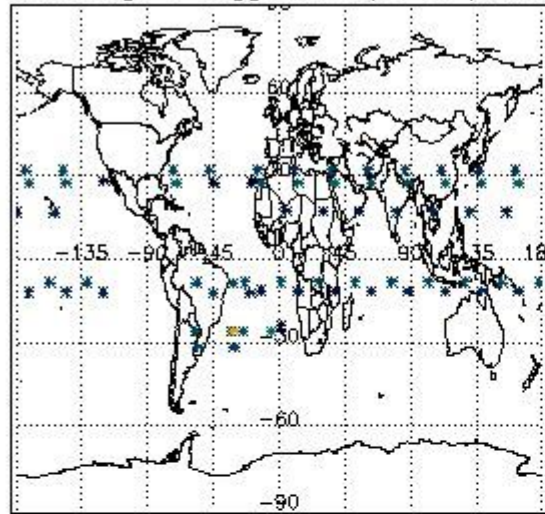
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

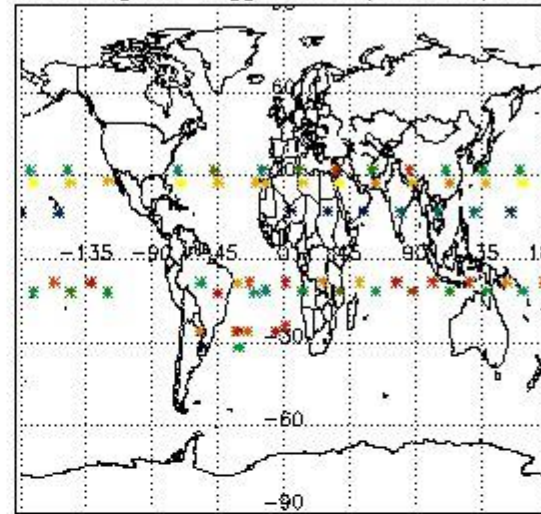


3.2 Plot quality information per product (world map)

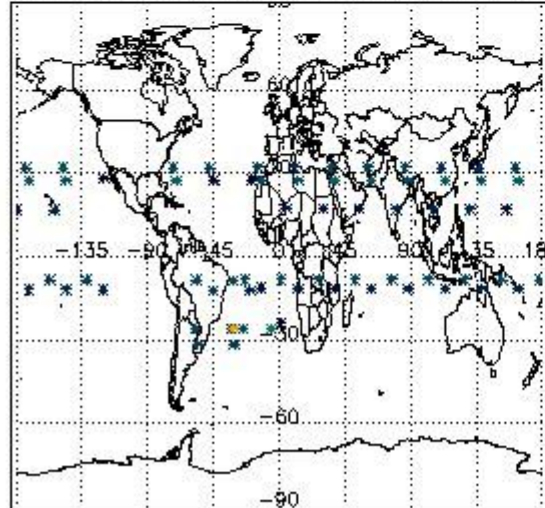
Percentage of flagged data per O3 profile



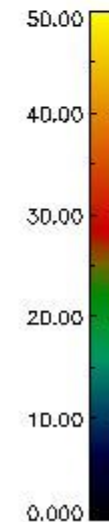
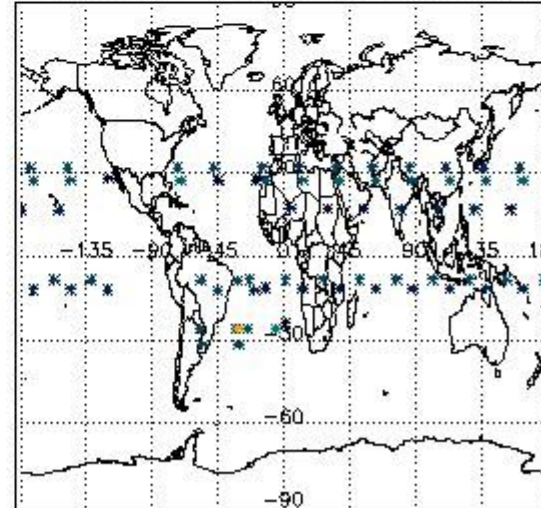
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

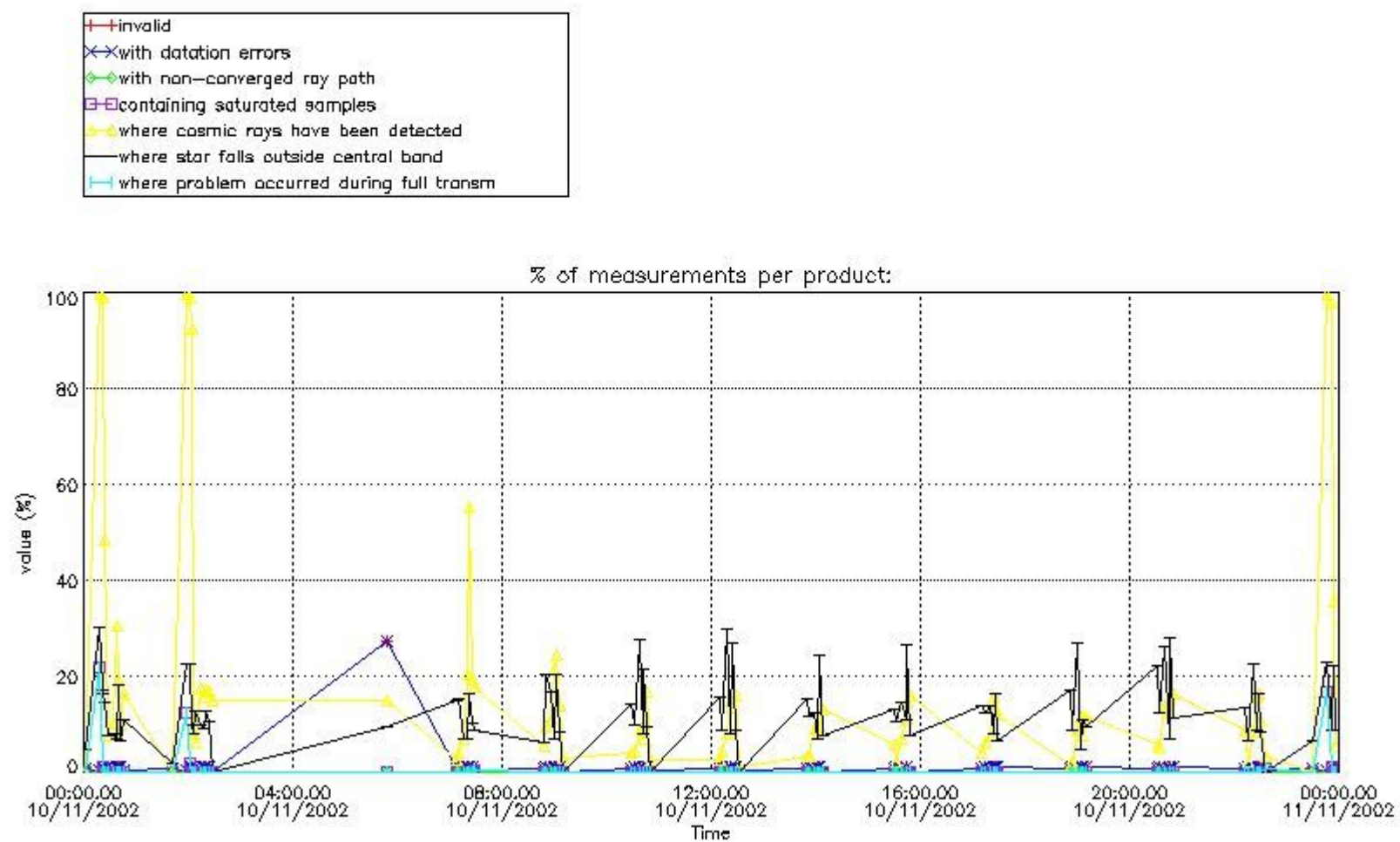


4. Level 1 quality information per product

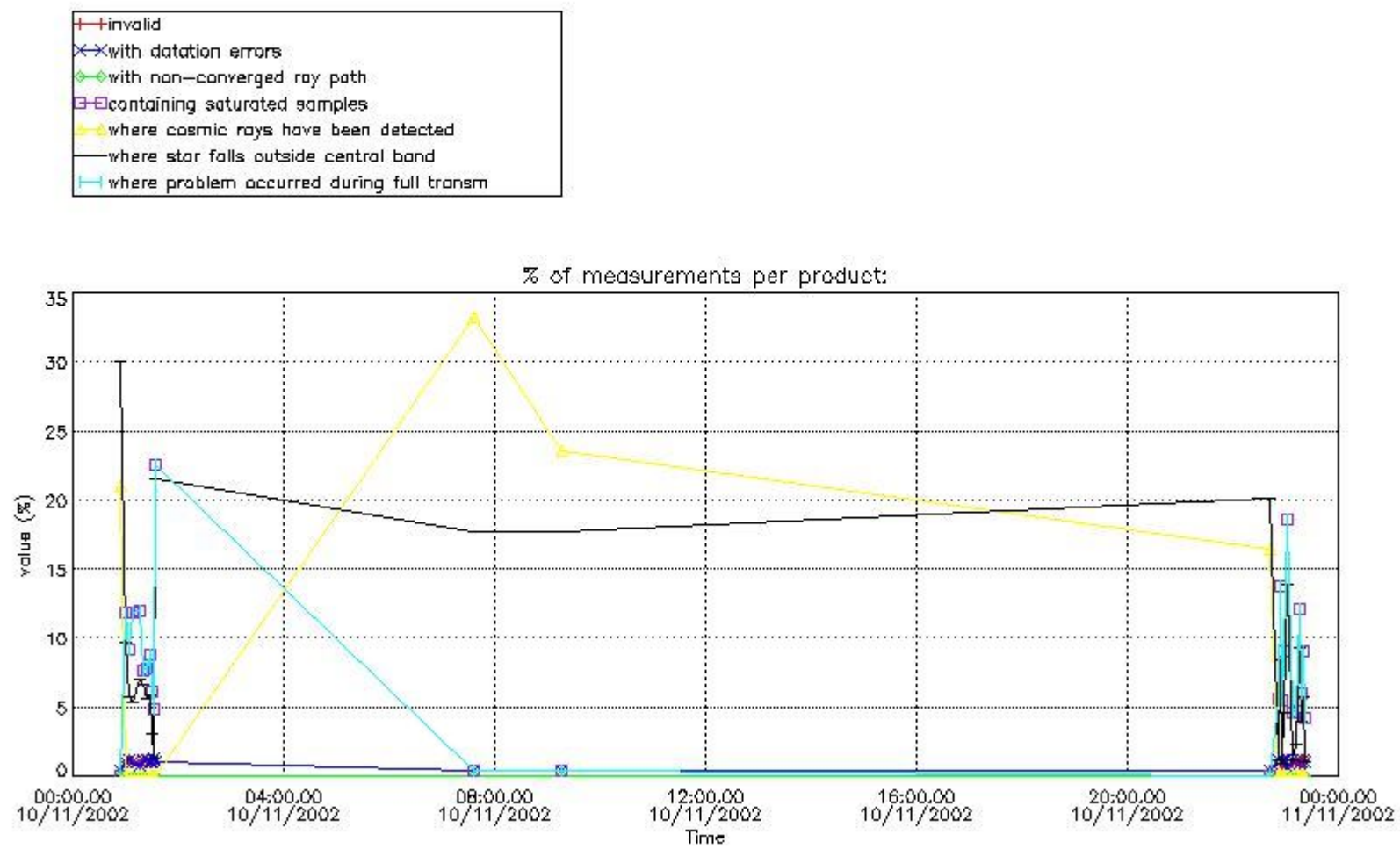
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

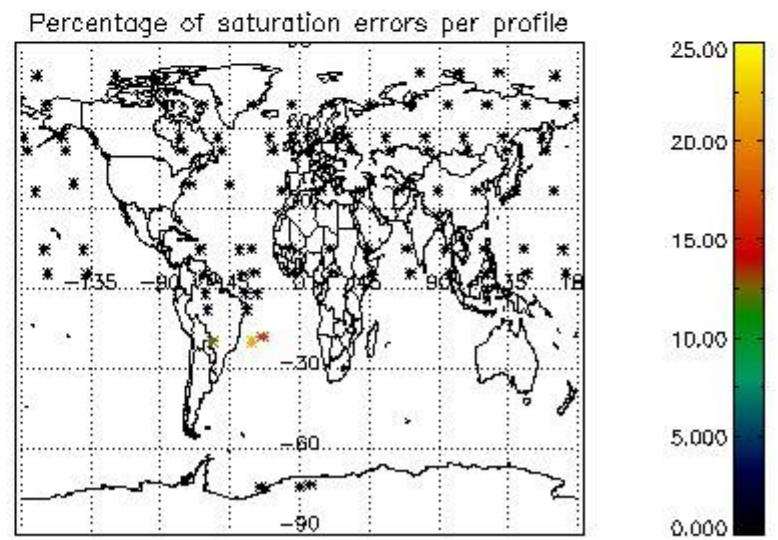
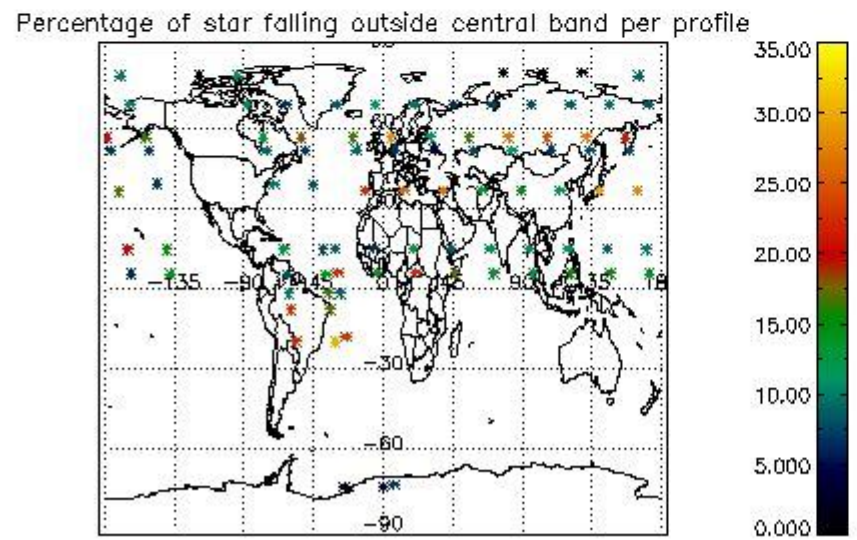
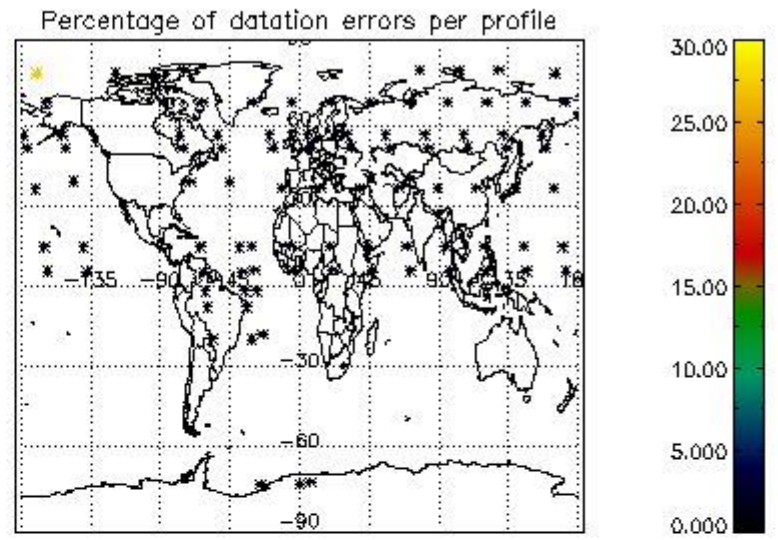
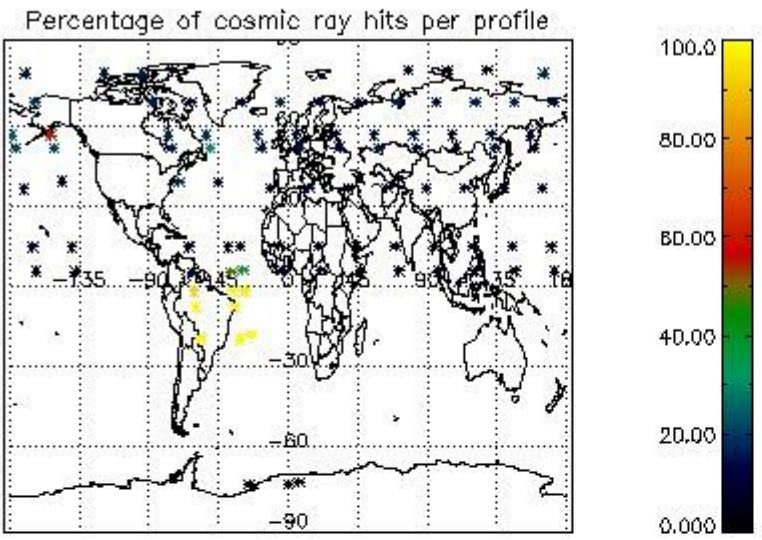


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



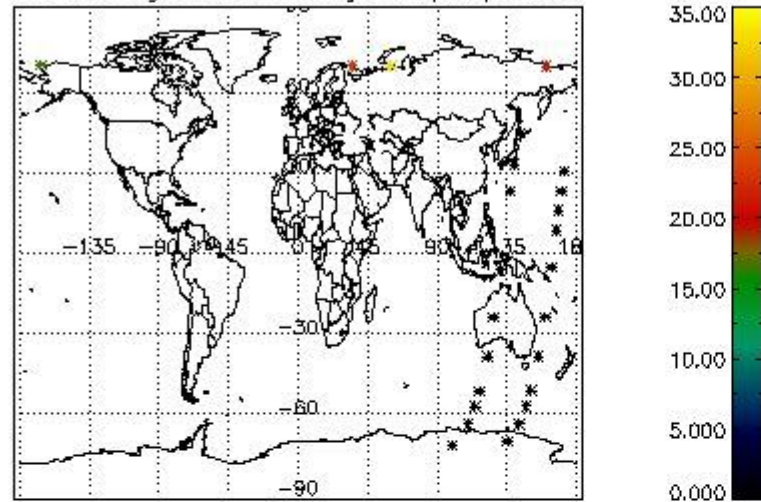
4.2 Plot quality information per product coming from level 1b processing (world map)

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

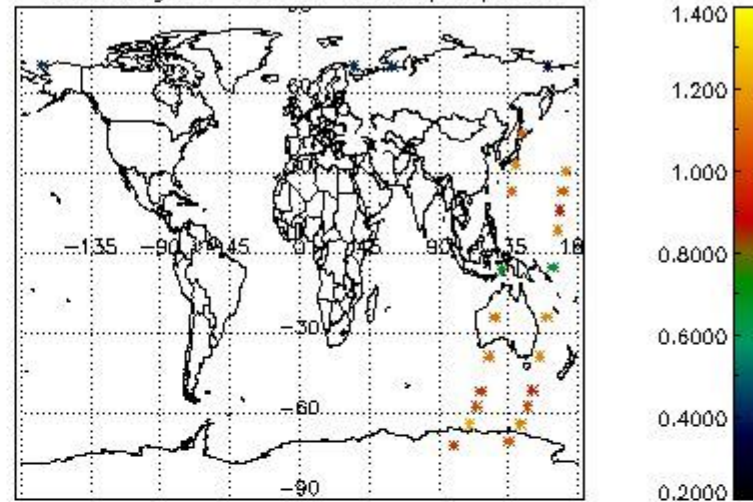


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

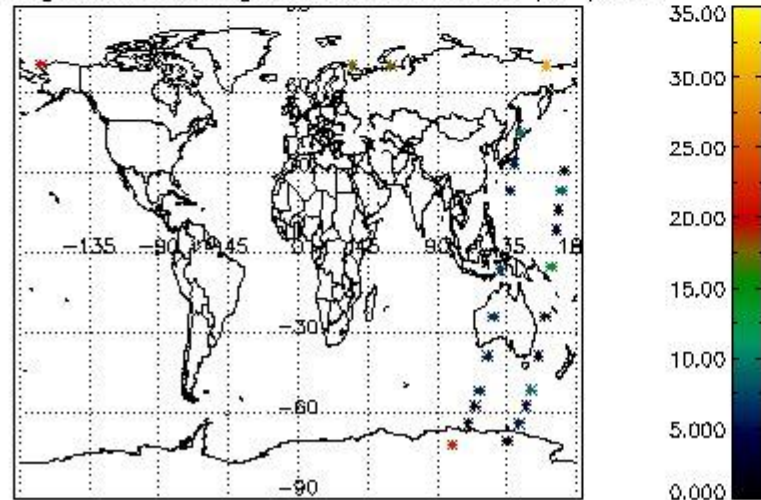
Percentage of cosmic ray hits per profile



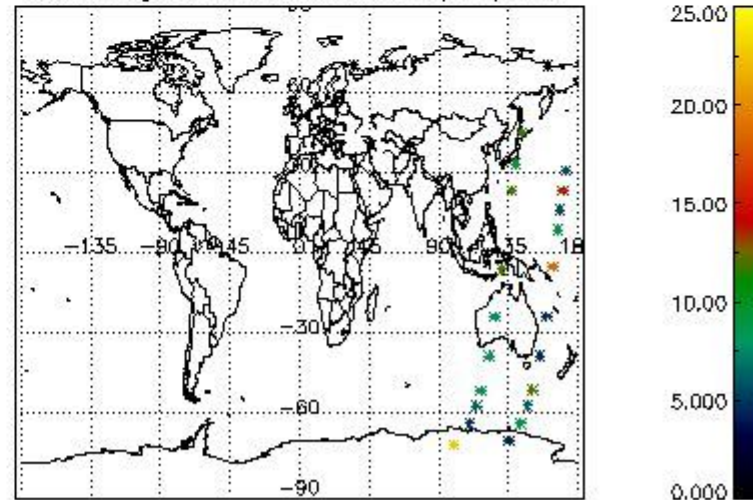
Percentage of datation errors per profile



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

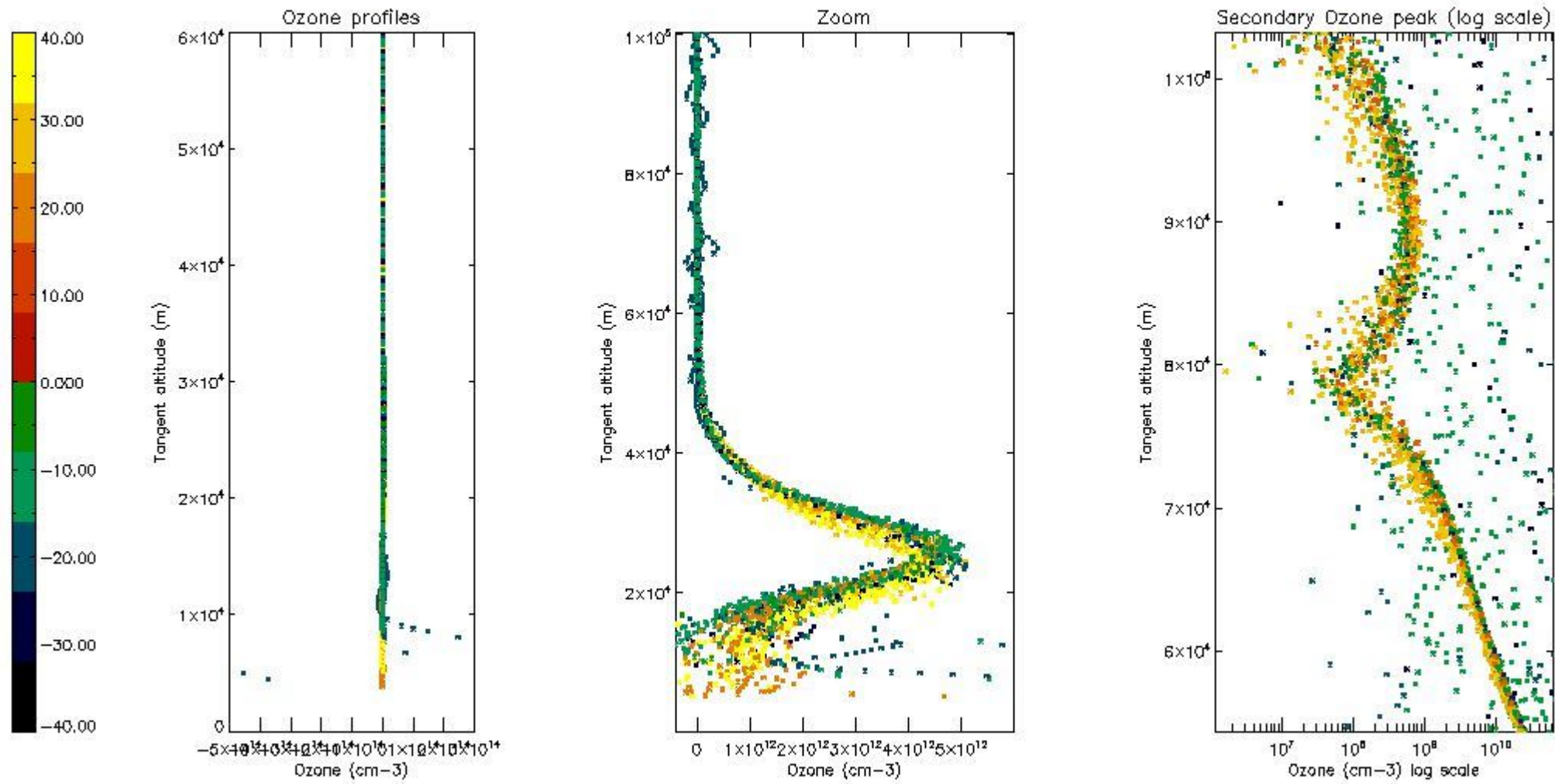
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	51
STD < 20	25

STD < 10	21
STD < 5	14

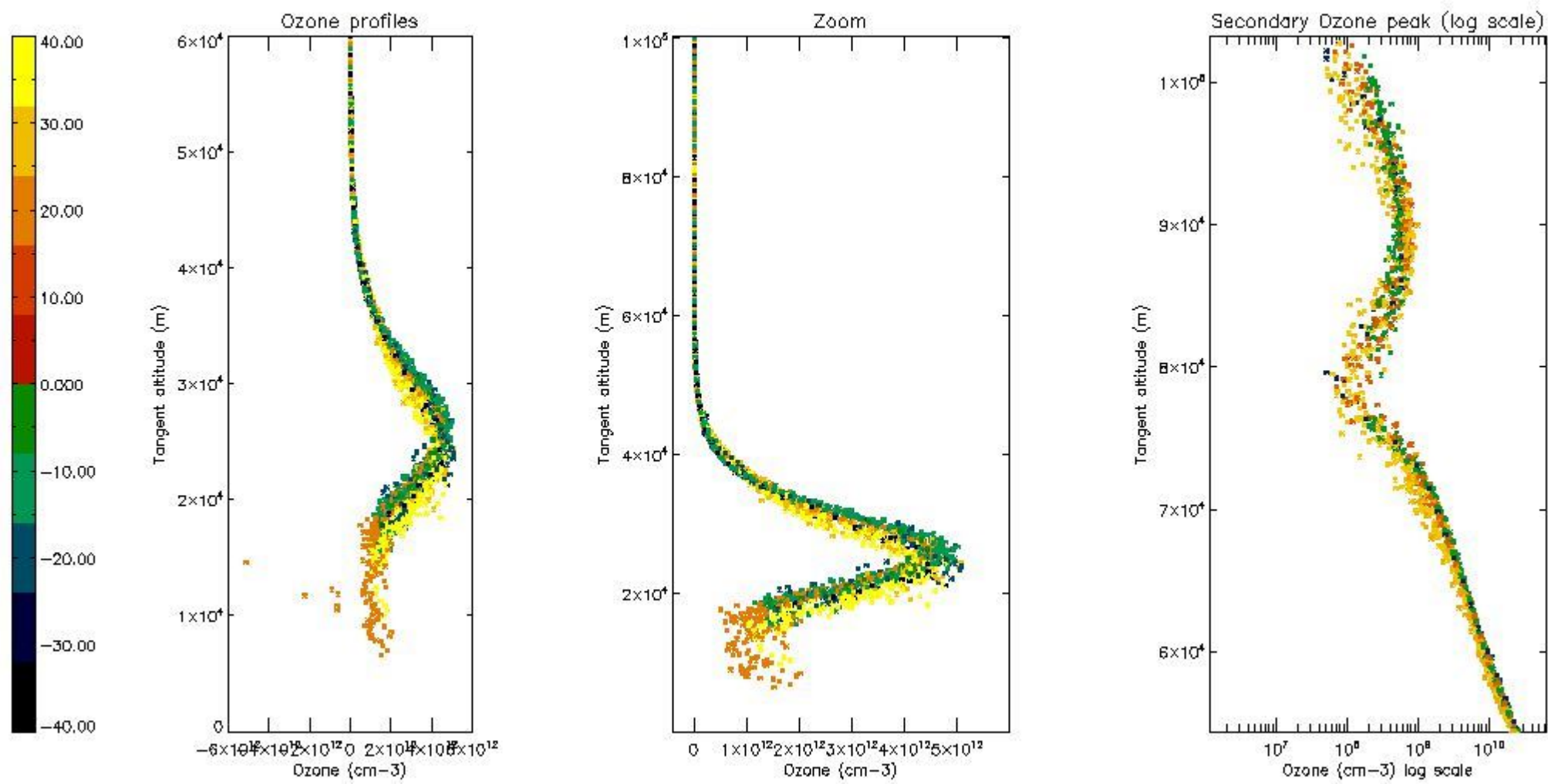
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



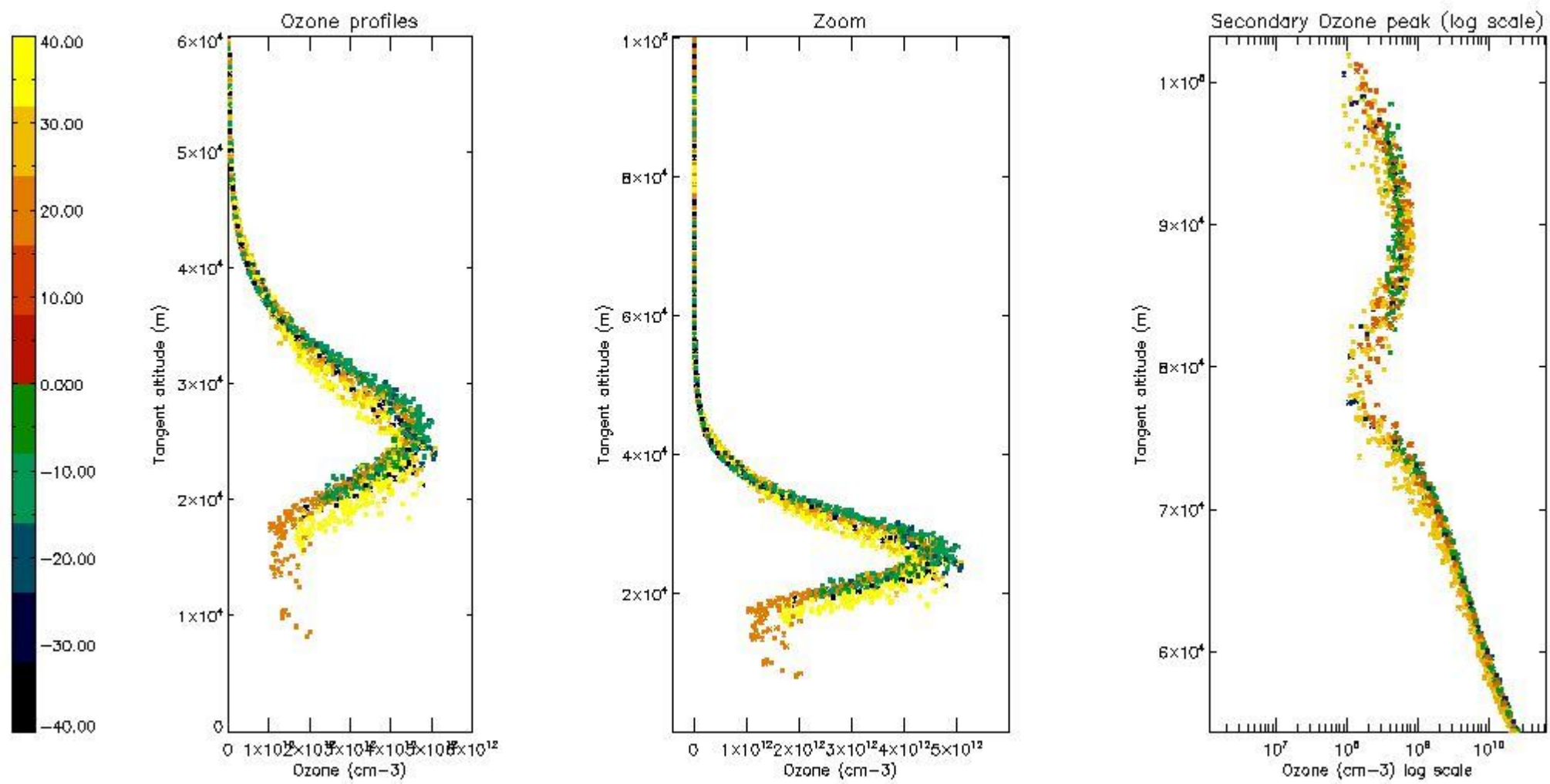
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



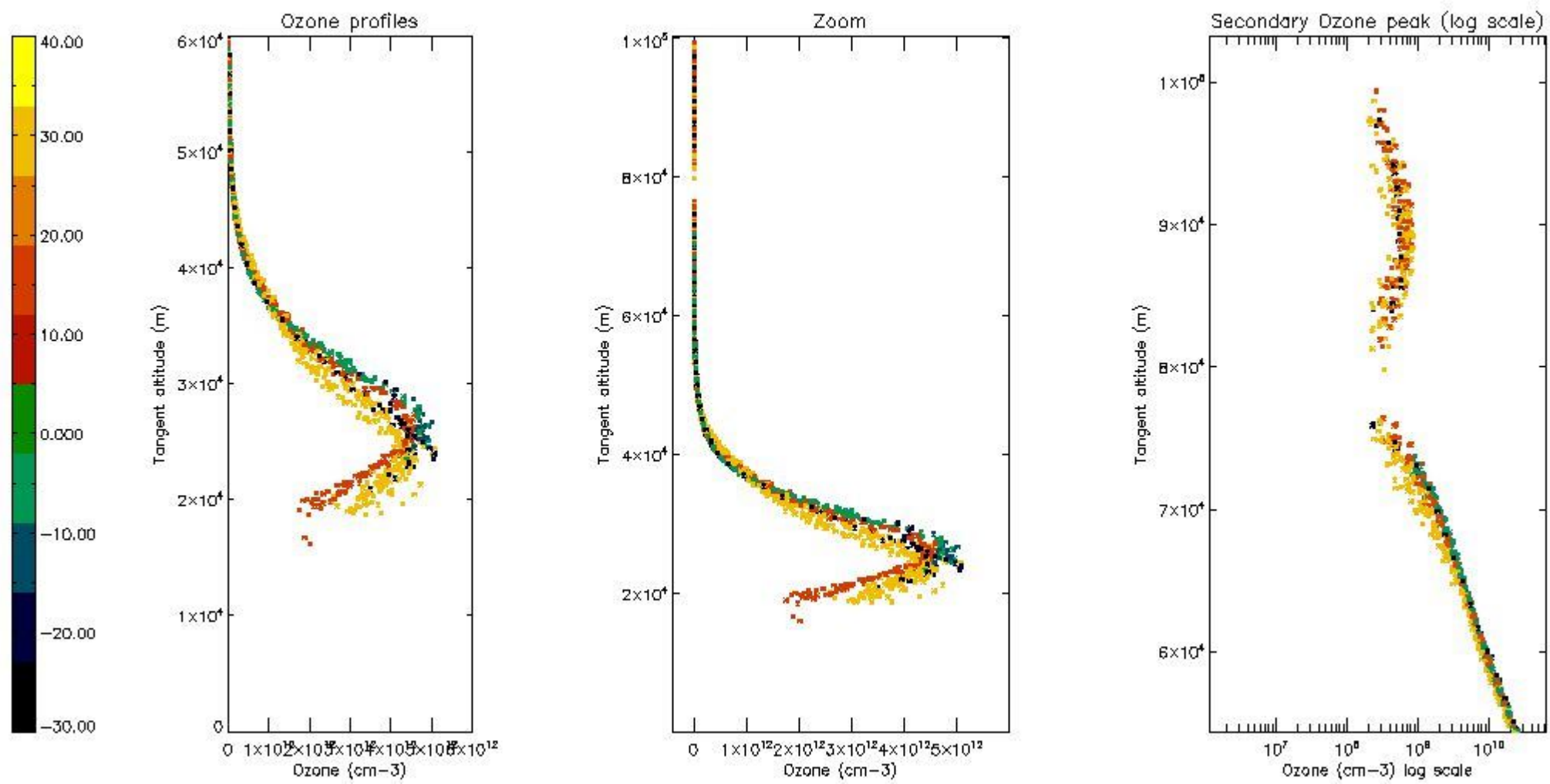
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



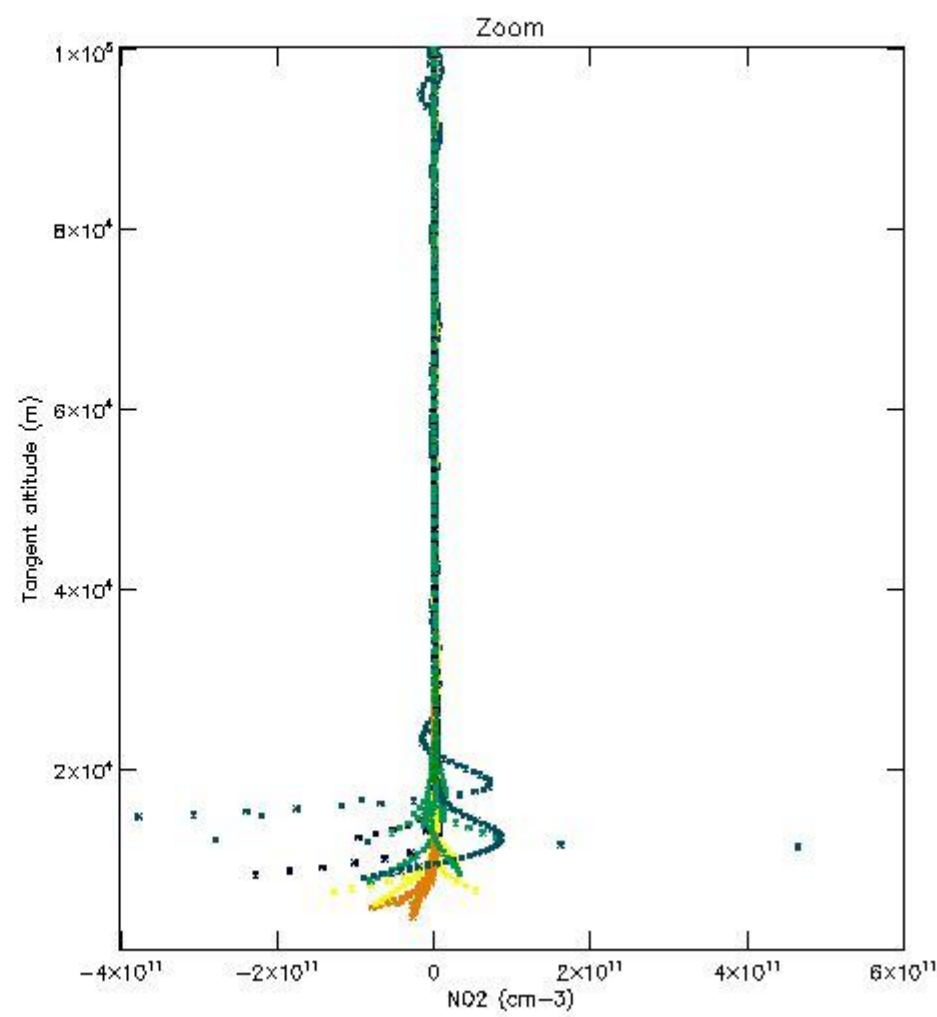
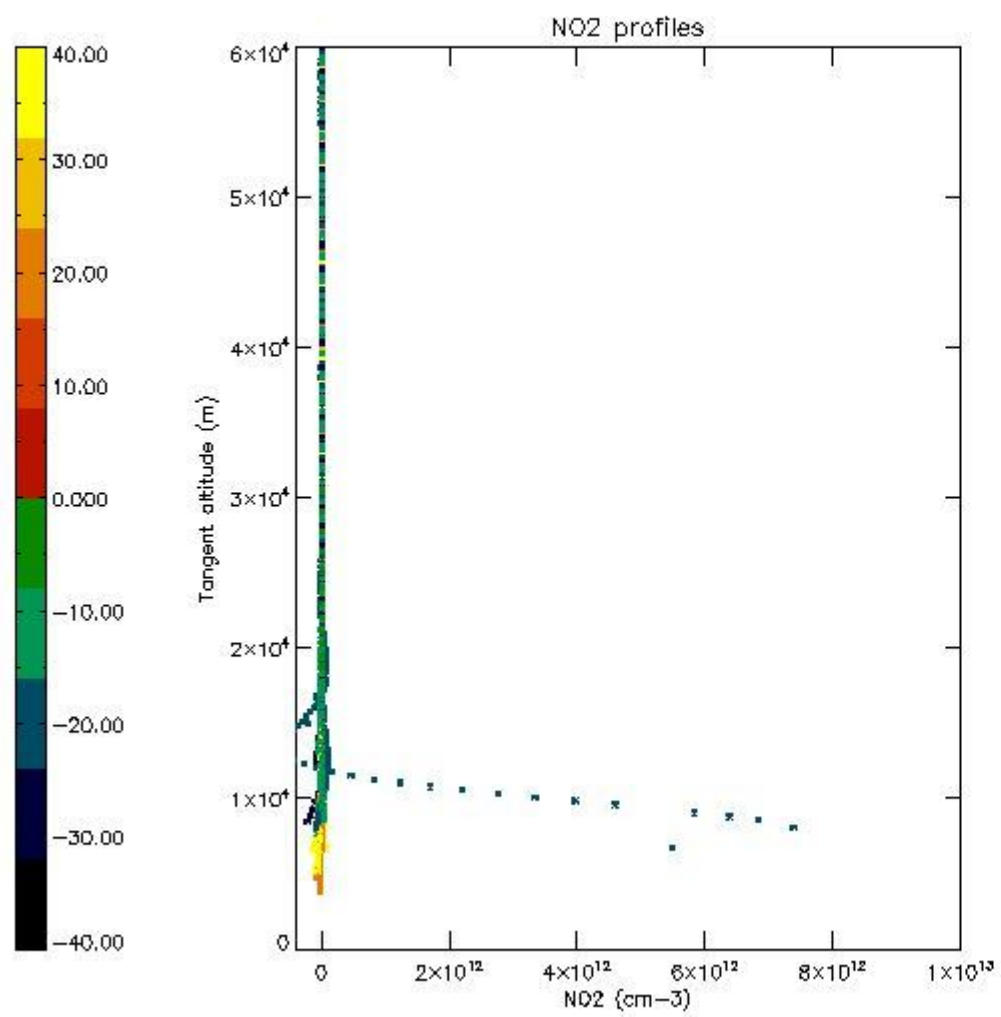
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



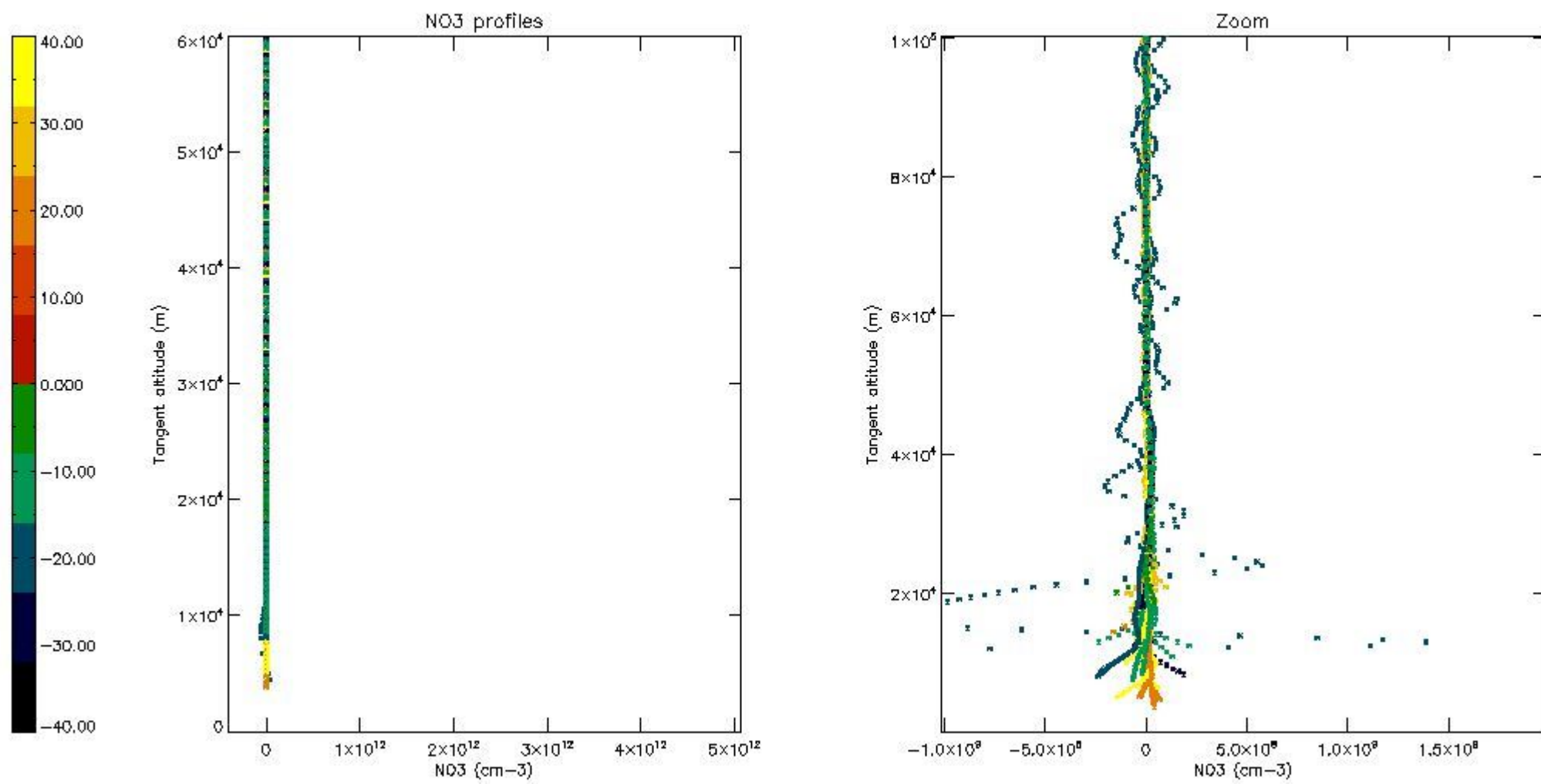
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



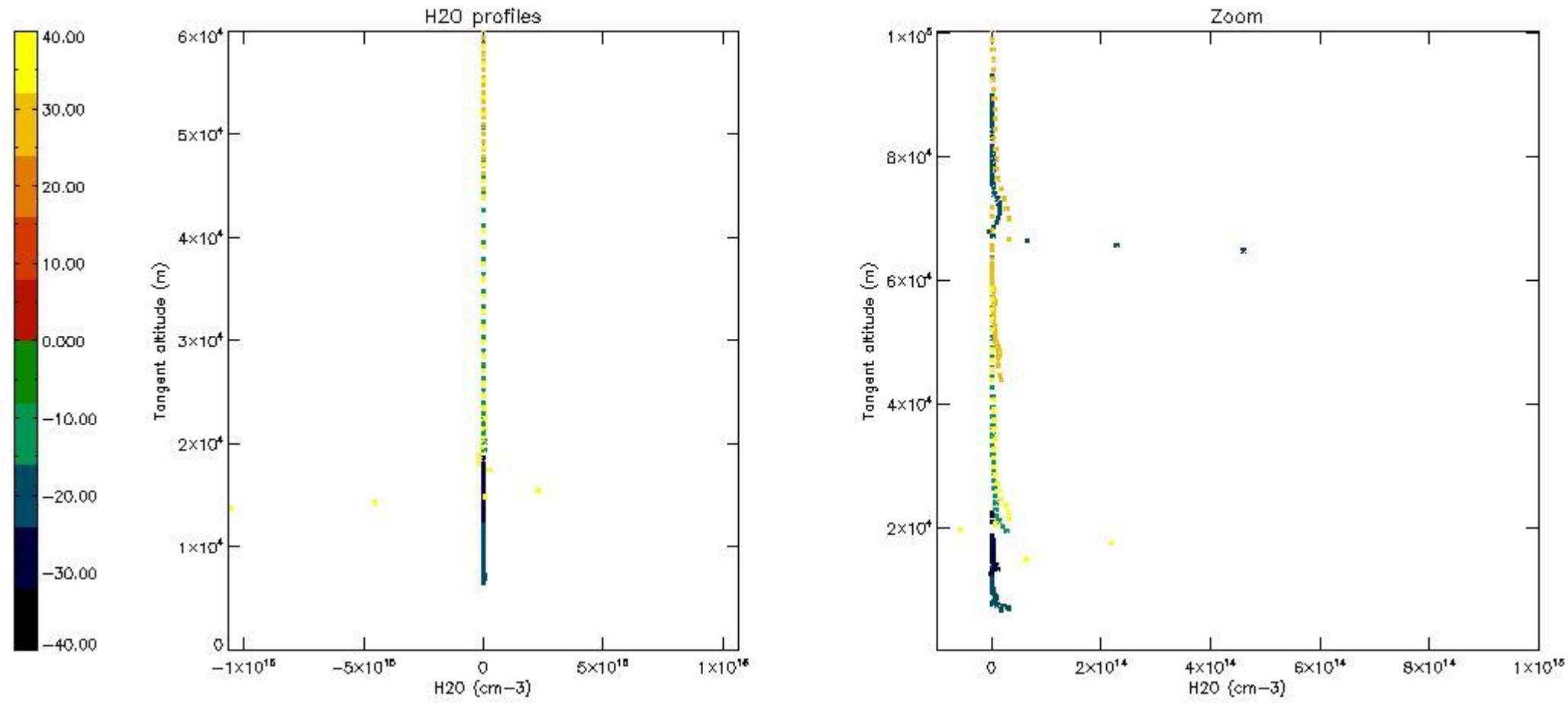
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	10-NOV-2002 00:02:01
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	10-NOV-2002 00:02:01
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	10-NOV-2002 00:02:01

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

[2. Summary of processed GOM_NL_2P products](#)

[3. Level 2 Quality information per product](#)

[3.1 Plot of level 2 quality information per product \(time dependant\)](#)

[3.2 Plot of level 2 quality information per product \(world map\)](#)

[4. Level 1 Quality information per product \(stored on level 2 products\)](#)

[4.1 Plot of level 1 quality information per product \(time dependant\)](#)

[4.1.1 Plot of level 1 quality information per product \(time dependant\): ASCENDING](#)

[4.1.2 Plot of level 1 quality information per product \(time dependant\): DESCENDING](#)

[4.2 Plot of level 1 quality information per product \(world map\)](#)

[4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

[4.2.2 Plot of level 1 quality information per product \(world map\): DESCENDING](#)

[5. Ozone profiles based on quality statistics and other trace gas profiles](#)

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

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

[5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

[5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

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

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

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

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

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

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

Item	Value
Time of report generation	17APR2013 20:03:45
Data source version	GOMOS/6.01
Start time of products	10-11-2002 (10NOV2002 00:00:00)
Stop time of products	11-11-2002 (11NOV2002 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	121
Nb of prods with errors	3

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__2PRFIN20021110_000201_000000852011_00073_03634_1534.N1	10-NOV-2002 00:02:01	Bright	85.000	166	17Eps Leo	2.9800	6000.0	170	3634	No
2	GOM_NL__2PRFIN20021110_000820_000001932011_00073_03634_1535.N1	10-NOV-2002 00:08:20	Dark	193.00	1015	Jupiter	0.0000	0.0000	386	3634	Yes
3	GOM_NL__2PRFIN20021110_001742_000001272011_00073_03634_1536.N1	10-NOV-2002 00:17:42	Dark	127.00	48	30Alp Hya	1.9770	4100.0	254	3634	No
4	GOM_NL__2PRFIN20021110_002106_000000502011_00073_03634_1537.N1	10-NOV-2002 00:21:06	Dark	49.500	26	Gam Cru	1.6240	2900.0	99	3634	No
5	GOM_NL__2PRFIN20021110_002245_000000492011_00073_03634_1538.N1	10-NOV-2002 00:22:45	Dark	48.500	12	Alp1Cru	0.77500	30000.	97	3634	No
6	GOM_NL__2PRFIN20021110_002443_000000622011_00074_03635_1425.N1	10-NOV-2002 00:24:43	Dark	62.000	65	Lam Vel	2.2040	4400.0	124	3635	No
7	GOM_NL__2PRFIN20021110_002721_000000462011_00074_03635_1426.N1	10-NOV-2002 00:27:21	Dark	46.000	29	Bet Car	1.6720	10200.	92	3635	No
8	GOM_NL__2PRFIN20021110_003409_000000952011_00074_03635_1427.N1	10-NOV-2002 00:34:09	Dark	94.500	88	31Eta CMa	2.4480	20000.	189	3635	No
9	GOM_NL__2PRFIN20021110_003750_000000442011_00074_03635_1428.N1	10-NOV-2002 00:37:50	Dark	44.000	143	Alp Hyi	2.8570	7200.0	88	3635	No
10	GOM_NL__2PRFIN20021110_003911_000000502011_00074_03635_1429.N1	10-NOV-2002 00:39:11	Dark	50.000	9	Alp Eri	0.45300	24000.	100	3635	No
11	GOM_NL__2PRFIN20021110_004248_000000472011_00074_03635_1430.N1	10-NOV-2002 00:42:48	Straylight	46.500	157	The1Eri	2.9060	9300.0	93	3635	No
12	GOM_NL__2PRFIN20021110_004632_000001762011_00074_03635_1431.N1	10-NOV-2002 00:46:32	Straylight	176.00	47	2Bet CMa	1.9760	28000.	352	3635	No
13	GOM_NL__2PRFIN20021110_005337_000001432011_00074_03635_1432.N1	10-NOV-2002 00:53:37	Twilight_and_stray	143.00	7	19Bet Ori	0.10000	14000.	286	3635	No
14	GOM_NL__2PRFIN20021110_010050_000000472011_00074_03635_1433.N1	10-NOV-2002 01:00:50	Bright	46.500	105	6Bet Ari	2.6450	8900.0	93	3635	No
15	GOM_NL__2PRFIN20021110_010412_000000442011_00074_03635_1434.N1	10-NOV-2002 01:04:12	Bright	43.500	58	21Alp And	2.0730	11000.	87	3635	No
16	GOM_NL__2PRFIN20021110_010702_000000472011_00074_03635_1435.N1	10-NOV-2002 01:07:02	Bright	46.500	73	57Gam1And	2.2600	13100.	93	3635	No
17	GOM_NL__2PRFIN20021110_011514_000000712011_00074_03635_1436.N1	10-NOV-2002 01:15:14	Bright	71.000	6	13Alp Aur	0.080000	3400.0	142	3635	No
18	GOM_NL__2PRFIN20021110_012010_000000462011_00074_03635_1437.N1	10-NOV-2002 01:20:10	Bright	45.500	49	1Alp UMi	1.9900	6300.0	91	3635	No
19	GOM_NL__2PRFIN20021110_012420_000000452011_00074_03635_1438.N1	10-NOV-2002 01:24:20	Bright	45.000	60	7Bet UMi	2.0810	3950.0	90	3635	No
20	GOM_NL__2PRFIN20021110_012801_000000522011_00074_03635_1439.N1	10-NOV-2002 01:28:01	Bright	51.500	36	50Alp UMa	1.8000	6300.0	103	3635	No
21	GOM_NL__2PRFIN20021110_012941_000000492011_00074_03635_1440.N1	10-NOV-2002 01:29:41	Bright	49.000	82	48Bet UMa	2.3650	10600.	98	3635	No
22	GOM_NL__2PRFIN20021110_013137_000000412011_00074_03635_1441.N1	10-NOV-2002 01:31:37	Bright	41.000	39	85Eta UMa	1.8540	24000.	82	3635	No
23	GOM_NL__2PRFIN20021110_013406_000000512011_00074_03635_1442.N1	10-NOV-2002 01:34:06	Bright	51.000	180	27Gam Boo	3.0400	8000.0	102	3635	No
24	GOM_NL__2PRFIN20021110_014238_000000842011_00074_03635_1443.N1	10-NOV-2002 01:42:38	Bright	83.500	166	17Eps Leo	2.9800	6000.0	167	3635	No
25	GOM_NL__2PRFIN20021110_014858_000001632011_00074_03635_1444.N1	10-NOV-2002 01:48:58	Dark	162.50	1015	Jupiter	0.0000	0.0000	325	3635	Yes
26	GOM_NL__2PRFIN20021110_015820_000001162011_00074_03635_1445.N1	10-NOV-2002 01:58:20	Dark	116.00	48	30Alp Hya	1.9770	4100.0	232	3635	No
27	GOM_NL__2PRFIN20021110_020142_000000532011_00074_03635_1446.N1	10-NOV-2002 02:01:42	Dark	53.000	26	Gam Cru	1.6240	2900.0	106	3635	No
28	GOM_NL__2PRFIN20021110_020321_000000462011_00074_03635_1447.N1	10-NOV-2002 02:03:21	Dark	45.500	12	Alp1Cru	0.77500	30000.	91	3635	No
29	GOM_NL__2PRFIN20021110_020521_000000572011_00075_03636_1425.N1	10-NOV-2002 02:05:21	Dark	56.500	65	Lam Vel	2.2040	4400.0	113	3636	No
30	GOM_NL__2PRFIN20021110_020758_000000482011_00075_03636_1426.N1	10-NOV-2002 02:07:58	Dark	47.500	29	Bet Car	1.6720	10200.	95	3636	No
31	GOM_NL__2PRFIN20021110_021447_000000972011_00075_03636_1427.N1	10-NOV-2002 02:14:47	Dark	96.500	88	31Eta CMa	2.4480	20000.	193	3636	No
32	GOM_NL__2PRFIN20021110_021826_000000452011_00075_03636_1428.N1	10-NOV-2002 02:18:26	Dark	44.500	143	Alp Hyi	2.8570	7200.0	89	3636	No
33	GOM_NL__2PRFIN20021110_021947_000000472011_00075_03636_1429.N1	10-NOV-2002 02:19:47	Dark	47.000	9	Alp Eri	0.45300	24000.	94	3636	No
34	GOM_NL__2PRFIN20021110_022324_000000482011_00075_03636_1430.N1	10-NOV-2002 02:23:24	Straylight	48.000	157	The1Eri	2.9060	9300.0	96	3636	No
35	GOM_NL__2PRFIN20021110_022709_000000632011_00075_03636_1431.N1	10-NOV-2002 02:27:09	Straylight	63.000	47	2Bet CMa	1.9760	28000.	126	3636	No
36	GOM_NL__2PRFIN20021110_054822_000001722011_00077_03638_9563.N1	10-NOV-2002 05:48:22	Straylight	172.00	47	2Bet CMa	1.9760	28000.	344	3638	No
37	GOM_NL__2PRFIN20021110_070711_000000612011_00078_03639_9563.N1	10-NOV-2002 07:07:11	Dark	61.000	65	Lam Vel	2.2040	4400.0	122	3639	No
38	GOM_NL__2PRFIN20021110_070947_000000492011_00078_03639_9564.N1	10-NOV-2002 07:09:47	Dark	49.000	29	Bet Car	1.6720	10200.	98	3639	No
39	GOM_NL__2PRFIN20021110_071640_000000932011_00078_03639_9565.N1	10-NOV-2002 07:16:40	Dark	93.000	88	31Eta CMa	2.4480	20000.	186	3639	No
40	GOM_NL__2PRFIN20021110_072014_000000442011_00078_03639_9566.N1	10-NOV-2002 07:20:14	Dark	44.000	143	Alp Hyi	2.8570	7200.0	88	3639	No
41	GOM_NL__2PRFIN20021110_072136_000000492011_00078_03639_9567.N1	10-NOV-2002 07:21:36	Dark	49.000	9	Alp Eri	0.45300	24000.	98	3639	No
42	GOM_NL__2PRFIN20021110_072512_000000492011_00078_03639_9568.N1	10-NOV-2002 07:25:12	Straylight	49.000	157	The1Eri	2.9060	9300.0	98	3639	No

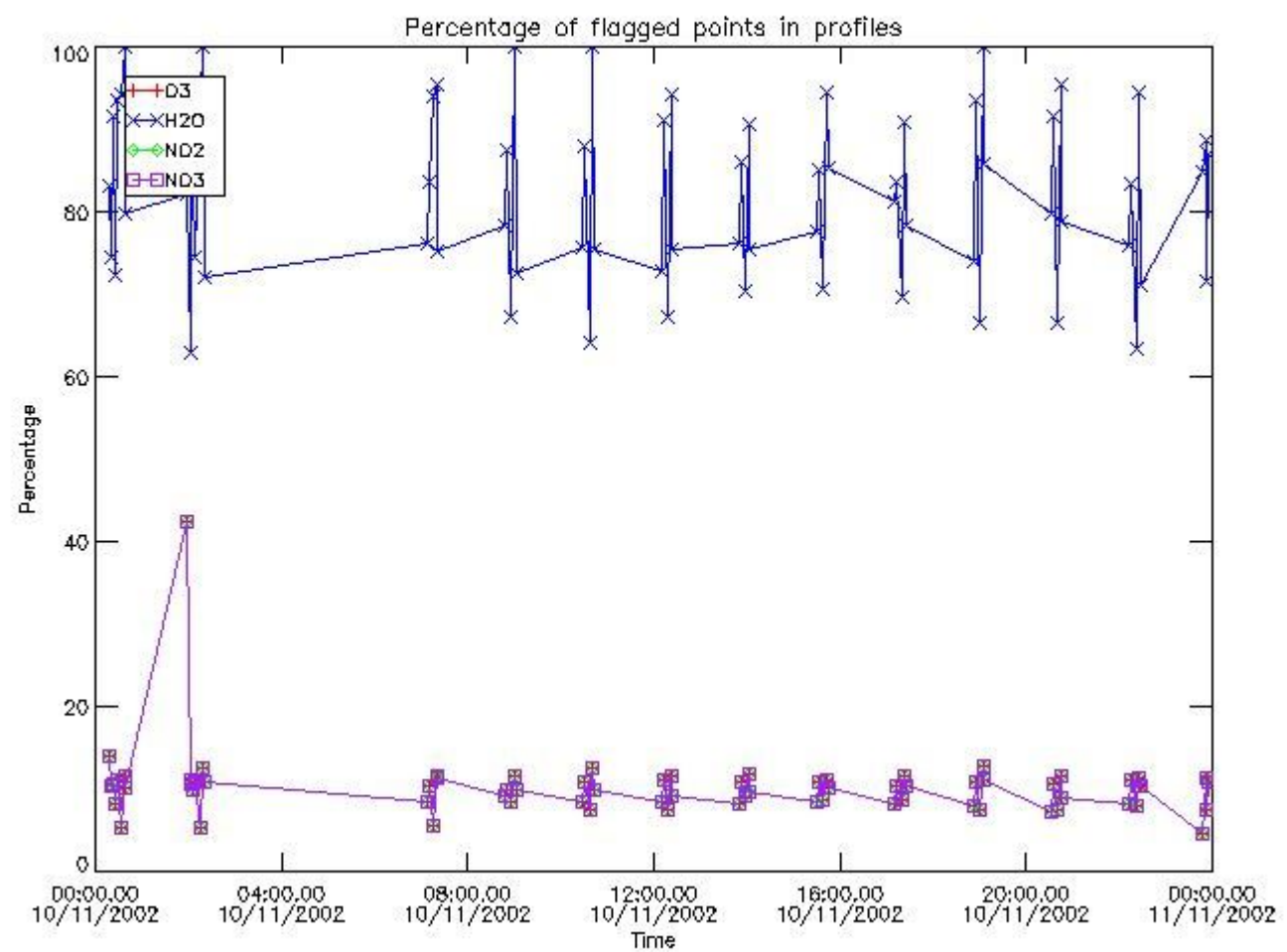
43	GOM_NL__2PRFIN20021110_072859_000001702011_00078_03639_9569.N1	10-NOV-2002 07:28:59	Straylight	169.50	47	2Bet CMa	1.9760	28000.	339	3639	No
44	GOM_NL__2PRFIN20021110_073558_000001192011_00078_03639_9570.N1	10-NOV-2002 07:35:58	Tw_i_and_stray	119.00	7	19Bet Ori	0.10000	14000.	238	3639	No
45	GOM_NL__2PRFIN20021110_084748_000000562011_00079_03640_9563.N1	10-NOV-2002 08:47:48	Dark	56.000	65	Lam Vel	2.2040	4400.0	112	3640	No
46	GOM_NL__2PRFIN20021110_085023_000000522011_00079_03640_9564.N1	10-NOV-2002 08:50:23	Dark	52.000	29	Bet Car	1.6720	10200.	104	3640	No
47	GOM_NL__2PRFIN20021110_085629_000000602011_00079_03640_9565.N1	10-NOV-2002 08:56:29	Dark	60.000	2	Alp Car	-0.73600	7000.0	120	3640	No
48	GOM_NL__2PRFIN20021110_090051_000000442011_00079_03640_9566.N1	10-NOV-2002 09:00:51	Dark	44.000	143	Alp Hyi	2.8570	7200.0	88	3640	No
49	GOM_NL__2PRFIN20021110_090212_000000522011_00079_03640_9567.N1	10-NOV-2002 09:02:12	Dark	51.500	9	Alp Eri	0.45300	24000.	103	3640	No
50	GOM_NL__2PRFIN20021110_090549_000000482011_00079_03640_9568.N1	10-NOV-2002 09:05:49	Straylight	47.500	157	The1Eri	2.9060	9300.0	95	3640	No
51	GOM_NL__2PRFIN20021110_091014_000002172011_00079_03640_9569.N1	10-NOV-2002 09:10:14	Tw_i_and_stray	216.50	1	9Alp CMa	-1.4400	11000.	433	3640	No
52	GOM_NL__2PRFIN20021110_091633_000001192011_00079_03640_9570.N1	10-NOV-2002 09:16:33	Tw_i_and_stray	119.00	7	19Bet Ori	0.10000	14000.	238	3640	No
53	GOM_NL__2PRFIN20021110_102825_000000602011_00080_03641_9563.N1	10-NOV-2002 10:28:25	Dark	60.000	65	Lam Vel	2.2040	4400.0	120	3641	No
54	GOM_NL__2PRFIN20021110_103100_000000472011_00080_03641_9564.N1	10-NOV-2002 10:31:00	Dark	46.500	29	Bet Car	1.6720	10200.	93	3641	No
55	GOM_NL__2PRFIN20021110_103706_000000692011_00080_03641_9565.N1	10-NOV-2002 10:37:06	Dark	68.500	2	Alp Car	-0.73600	7000.0	137	3641	No
56	GOM_NL__2PRFIN20021110_104127_000000452011_00080_03641_9566.N1	10-NOV-2002 10:41:27	Dark	44.500	143	Alp Hyi	2.8570	7200.0	89	3641	No
57	GOM_NL__2PRFIN20021110_104248_000000522011_00080_03641_9567.N1	10-NOV-2002 10:42:48	Dark	51.500	9	Alp Eri	0.45300	24000.	103	3641	No
58	GOM_NL__2PRFIN20021110_104625_000000482011_00080_03641_9568.N1	10-NOV-2002 10:46:25	Straylight	48.000	157	The1Eri	2.9060	9300.0	96	3641	No
59	GOM_NL__2PRFIN20021110_105051_000002172011_00080_03641_9569.N1	10-NOV-2002 10:50:51	Tw_i_and_stray	217.00	1	9Alp CMa	-1.4400	11000.	434	3641	No
60	GOM_NL__2PRFIN20021110_120903_000000612011_00081_03642_9563.N1	10-NOV-2002 12:09:03	Dark	61.000	65	Lam Vel	2.2040	4400.0	122	3642	No
61	GOM_NL__2PRFIN20021110_121136_000000462011_00081_03642_9564.N1	10-NOV-2002 12:11:36	Dark	45.500	29	Bet Car	1.6720	10200.	91	3642	No
62	GOM_NL__2PRFIN20021110_121743_000000692011_00081_03642_9565.N1	10-NOV-2002 12:17:43	Dark	69.000	2	Alp Car	-0.73600	7000.0	138	3642	No
63	GOM_NL__2PRFIN20021110_122203_000000442011_00081_03642_9566.N1	10-NOV-2002 12:22:03	Dark	44.000	143	Alp Hyi	2.8570	7200.0	88	3642	No
64	GOM_NL__2PRFIN20021110_122324_000000562011_00081_03642_9567.N1	10-NOV-2002 12:23:24	Dark	55.500	9	Alp Eri	0.45300	24000.	111	3642	No
65	GOM_NL__2PRFIN20021110_122702_000000472011_00081_03642_9568.N1	10-NOV-2002 12:27:02	Straylight	46.500	157	The1Eri	2.9060	9300.0	93	3642	No
66	GOM_NL__2PRFIN20021110_123127_000002172011_00081_03642_9569.N1	10-NOV-2002 12:31:27	Tw_i_and_stray	217.00	1	9Alp CMa	-1.4400	11000.	434	3642	No
67	GOM_NL__2PRFIN20021110_134940_000000622011_00082_03643_9563.N1	10-NOV-2002 13:49:40	Dark	61.500	65	Lam Vel	2.2040	4400.0	123	3643	No
68	GOM_NL__2PRFIN20021110_135213_000000472011_00082_03643_9564.N1	10-NOV-2002 13:52:13	Dark	47.000	29	Bet Car	1.6720	10200.	94	3643	No
69	GOM_NL__2PRFIN20021110_135820_000000562011_00082_03643_9565.N1	10-NOV-2002 13:58:20	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	3643	No
70	GOM_NL__2PRFIN20021110_140239_000000432011_00082_03643_9566.N1	10-NOV-2002 14:02:39	Dark	43.000	143	Alp Hyi	2.8570	7200.0	86	3643	No
71	GOM_NL__2PRFIN20021110_140400_000000542011_00082_03643_9567.N1	10-NOV-2002 14:04:00	Dark	53.500	9	Alp Eri	0.45300	24000.	107	3643	No
72	GOM_NL__2PRFIN20021110_140738_000000462011_00082_03643_9568.N1	10-NOV-2002 14:07:38	Straylight	45.500	157	The1Eri	2.9060	9300.0	91	3643	No
73	GOM_NL__2PRFIN20021110_153015_000000612011_00083_03644_9563.N1	10-NOV-2002 15:30:15	Dark	61.000	65	Lam Vel	2.2040	4400.0	122	3644	No
74	GOM_NL__2PRFIN20021110_153248_000000472011_00083_03644_9564.N1	10-NOV-2002 15:32:48	Dark	47.000	29	Bet Car	1.6720	10200.	94	3644	No
75	GOM_NL__2PRFIN20021110_153855_000000592011_00083_03644_9565.N1	10-NOV-2002 15:38:55	Dark	58.500	2	Alp Car	-0.73600	7000.0	117	3644	No
76	GOM_NL__2PRFIN20021110_154315_000000462011_00083_03644_9566.N1	10-NOV-2002 15:43:15	Dark	45.500	143	Alp Hyi	2.8570	7200.0	91	3644	No
77	GOM_NL__2PRFIN20021110_154436_000000552011_00083_03644_9567.N1	10-NOV-2002 15:44:36	Dark	55.000	9	Alp Eri	0.45300	24000.	110	3644	No
78	GOM_NL__2PRFIN20021110_154814_000000472011_00083_03644_9568.N1	10-NOV-2002 15:48:14	Straylight	46.500	157	The1Eri	2.9060	9300.0	93	3644	No
79	GOM_NL__2PRFIN20021110_171052_000000622011_00084_03645_9563.N1	10-NOV-2002 17:10:52	Dark	61.500	65	Lam Vel	2.2040	4400.0	123	3645	No
80	GOM_NL__2PRFIN20021110_171324_000000492011_00084_03645_9564.N1	10-NOV-2002 17:13:24	Dark	49.000	29	Bet Car	1.6720	10200.	98	3645	No
81	GOM_NL__2PRFIN20021110_171932_000000582011_00084_03645_9565.N1	10-NOV-2002 17:19:32	Dark	58.000	2	Alp Car	-0.73600	7000.0	116	3645	No
82	GOM_NL__2PRFIN20021110_172351_000000452011_00084_03645_9566.N1	10-NOV-2002 17:23:51	Dark	44.500	143	Alp Hyi	2.8570	7200.0	89	3645	No
83	GOM_NL__2PRFIN20021110_172512_000000492011_00084_03645_9567.N1	10-NOV-2002 17:25:12	Dark	49.000	9	Alp Eri	0.45300	24000.	98	3645	No
84	GOM_NL__2PRFIN20021110_172850_000000472011_00084_03645_9568.N1	10-NOV-2002 17:28:50	Straylight	46.500	157	The1Eri	2.9060	9300.0	93	3645	No
85	GOM_NL__2PRFIN20021110_185129_000000642011_00085_03646_9563.N1	10-NOV-2002 18:51:29	Dark	64.000	65	Lam Vel	2.2040	4400.0	128	3646	No
86	GOM_NL__2PRFIN20021110_185401_000000472011_00085_03646_9564.N1	10-NOV-2002 18:54:01	Dark	46.500	29	Bet Car	1.6720	10200.	93	3646	No
87	GOM_NL__2PRFIN20021110_190008_000000692011_00085_03646_9565.N1	10-NOV-2002 19:00:08	Dark	69.000	2	Alp Car	-0.73600	7000.0	138	3646	No
88	GOM_NL__2PRFIN20021110_190427_000000442011_00085_03646_9566.N1	10-NOV-2002 19:04:27	Dark	43.500	143	Alp Hyi	2.8570	7200.0	87	3646	No
89	GOM_NL__2PRFIN20021110_190548_000000462011_00085_03646_9567.N1	10-NOV-2002 19:05:48	Dark	46.000	9	Alp Eri	0.45300	24000.	92	3646	No
90	GOM_NL__2PRFIN20021110_190926_000000482011_00085_03646_9568.N1	10-NOV-2002 19:09:26	Straylight	47.500	157	The1Eri	2.9060	9300.0	95	3646	No
91	GOM_NL__2PRFIN20021110_203206_000000702011_00086_03647_9563.N1	10-NOV-2002 20:32:06	Dark	69.500	65	Lam Vel	2.2040	4400.0	139	3647	No
92	GOM_NL__2PRFIN20021110_203437_000000482011_00086_03647_9564.N1	10-NOV-2002 20:34:37	Dark	48.000	29	Bet Car	1.6720	10200.	96	3647	No
93	GOM_NL__2PRFIN20021110_204045_000000692011_00086_03647_9565.N1	10-NOV-2002 20:40:45	Dark	69.000	2	Alp Car	-0.73600	7000.0	138	3647	No
94	GOM_NL__2PRFIN20021110_204503_000000442011_00086_03647_9566.N1	10-NOV-2002 20:45:03	Dark	44.000	143	Alp Hyi	2.8570	7200.0	88	3647	No
95	GOM_NL__2PRFIN20021110_204625_000000572011_00086_03647_9567.N1	10-NOV-2002 20:46:25	Dark	57.000	9	Alp Eri	0.45300	24000.	114	3647	No
96	GOM_NL__2PRFIN20021110_205002_000000492011_00086_03647_9568.N1	10-NOV-2002 20:50:02	Straylight	49.000	157	The1Eri	2.9060	9300.0	98	3647	No
97	GOM_NL__2PRFIN20021110_221243_000000632011_00087_03648_9603.N1	10-NOV-2002 22:12:43	Dark	62.500	65	Lam Vel	2.2040	4400.0	125	3648	No
98	GOM_NL__2PRFIN20021110_221514_000000462011_00087_03648_9604.N1	10-NOV-2002 22:15:14	Dark	45.500	29	Bet Car	1.6720	10200.	91	3648	No
99	GOM_NL__2PRFIN20021110_222122_000000652011_00087_03648_9605.N1	10-NOV-2002 22:21:22	Dark	64.500	2	Alp Car	-0.73600	7000.0	129	3648	No
100	GOM_NL__2PRFIN20021110_222539_000000452011_00087_03648_9606.N1	10-NOV-2002 22:25:39	Dark	45.000	143	Alp Hyi	2.8570	7200.0	90	3648	No
101	GOM_NL__2PRFIN20021110_222700_000000492011_00087_03648_9607.N1	10-NOV-2002 22:27:00	Dark	49.000	9	Alp Eri	0.45300	24000.	98	3648	No

102	GOM_NL__2PRFIN20021110_223039_000000472011_00087_03648_1842.N1	10-NOV-2002 22:30:39	Straylight	47.000	157	The1Eri	2.9060	9300.0	94	3648	No
103	GOM_NL__2PRFIN20021110_223506_000002172011_00087_03648_1843.N1	10-NOV-2002 22:35:06	Tw_i_and_stray	217.00	1	9Alp CMa	-1.4400	11000.	434	3648	No
104	GOM_NL__2PRFIN20021110_224117_000001192011_00087_03648_1844.N1	10-NOV-2002 22:41:17	Tw_i_and_stray	119.00	7	19Bet Ori	0.10000	14000.	238	3648	No
105	GOM_NL__2PRFIN20021110_225244_000000452011_00087_03648_1845.N1	10-NOV-2002 22:52:44	Bright	44.500	173	4Bet Tri	3.0040	8900.0	89	3648	No
106	GOM_NL__2PRFIN20021110_225448_000000482011_00087_03648_1846.N1	10-NOV-2002 22:54:48	Bright	47.500	73	57Gam1And	2.2600	13100.	95	3648	No
107	GOM_NL__2PRFIN20021110_225649_000000552011_00087_03648_1847.N1	10-NOV-2002 22:56:49	Bright	54.500	149	45Eps Per	2.8880	30000.	109	3648	No
108	GOM_NL__2PRFIN20021110_225853_000000442011_00087_03648_1848.N1	10-NOV-2002 22:58:53	Bright	44.000	68	18Alp Cas	2.2250	4500.0	88	3648	No
109	GOM_NL__2PRFIN20021110_230247_000000762011_00087_03648_1849.N1	10-NOV-2002 23:02:47	Bright	75.500	6	13Alp Aur	0.080000	3400.0	151	3648	No
110	GOM_NL__2PRFIN20021110_230757_000000442011_00087_03648_1850.N1	10-NOV-2002 23:07:57	Bright	43.500	49	1Alp UMi	1.9900	6300.0	87	3648	No
111	GOM_NL__2PRFIN20021110_231210_000000432011_00087_03648_1851.N1	10-NOV-2002 23:12:10	Bright	43.000	60	7Bet UMi	2.0810	3950.0	86	3648	No
112	GOM_NL__2PRFIN20021110_231547_000000542011_00087_03648_1852.N1	10-NOV-2002 23:15:47	Bright	54.000	36	50Alp UMa	1.8000	6300.0	108	3648	No
113	GOM_NL__2PRFIN20021110_231726_000000502011_00087_03648_1853.N1	10-NOV-2002 23:17:26	Bright	50.000	82	48Bet UMa	2.3650	10600.	100	3648	No
114	GOM_NL__2PRFIN20021110_231926_000000442011_00087_03648_1854.N1	10-NOV-2002 23:19:26	Bright	44.000	39	85Eta UMa	1.8540	24000.	88	3648	No
115	GOM_NL__2PRFIN20021110_232122_000000482011_00087_03648_1855.N1	10-NOV-2002 23:21:22	Bright	48.000	174	52Psi UMa	3.0040	4400.0	96	3648	No
116	GOM_NL__2PRFIN20021110_233035_000000902011_00087_03648_1856.N1	10-NOV-2002 23:30:35	Bright	89.500	166	17Eps Leo	2.9800	6000.0	179	3648	No
117	GOM_NL__2PRFIN20021110_233713_000002172011_00087_03648_1857.N1	10-NOV-2002 23:37:13	Dark	217.00	1015	Jupiter	0.0000	0.0000	434	3648	Yes
118	GOM_NL__2PRFIN20021110_234635_000001222011_00087_03648_1858.N1	10-NOV-2002 23:46:35	Dark	122.00	48	30Alp Hya	1.9770	4100.0	244	3648	No
119	GOM_NL__2PRFIN20021110_235110_000000452011_00087_03648_1859.N1	10-NOV-2002 23:51:10	Dark	45.000	12	Alp1Cru	0.77500	30000.	90	3648	No
120	GOM_NL__2PRFIN20021110_235321_000000682011_00088_03649_1448.N1	10-NOV-2002 23:53:21	Dark	67.500	65	Lam Vel	2.2040	4400.0	135	3649	No
121	GOM_NL__2PRFIN20021110_235550_000000472011_00088_03649_1449.N1	10-NOV-2002 23:55:50	Dark	46.500	29	Bet Car	1.6720	10200.	93	3649	No

3. Quality information per product

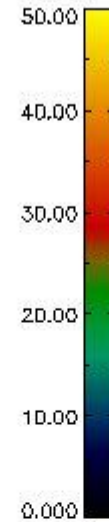
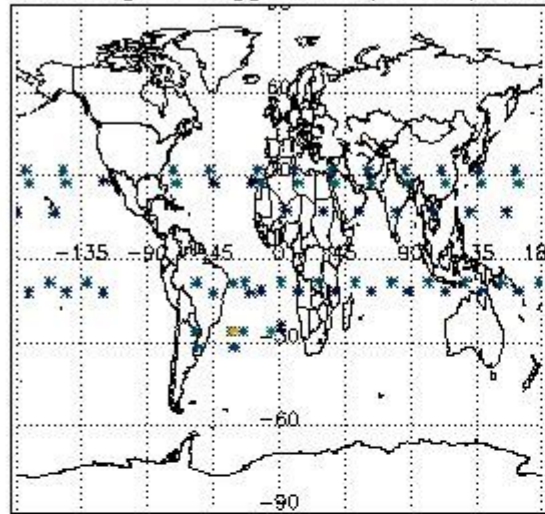
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

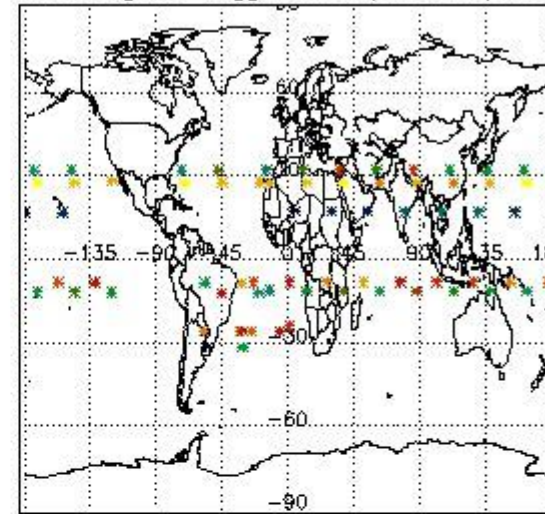


3.2 Plot quality information per product (world map)

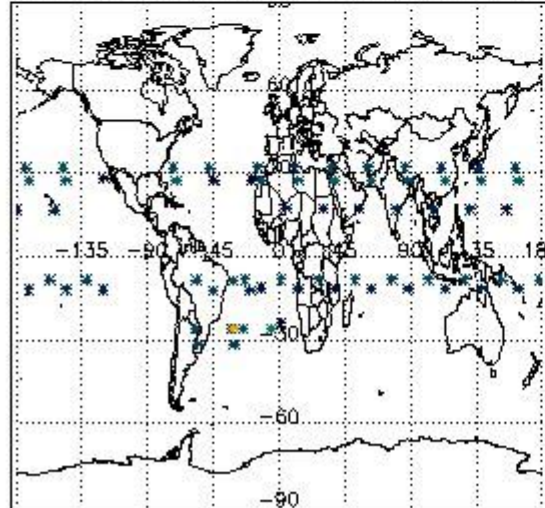
Percentage of flagged data per O3 profile



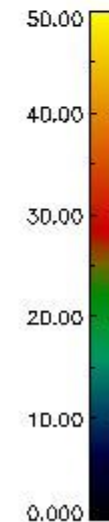
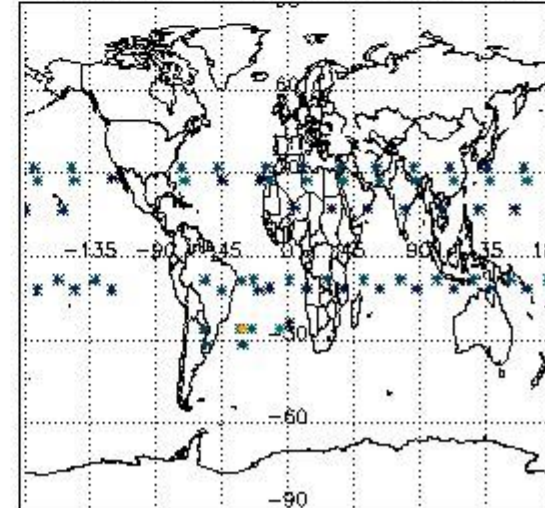
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

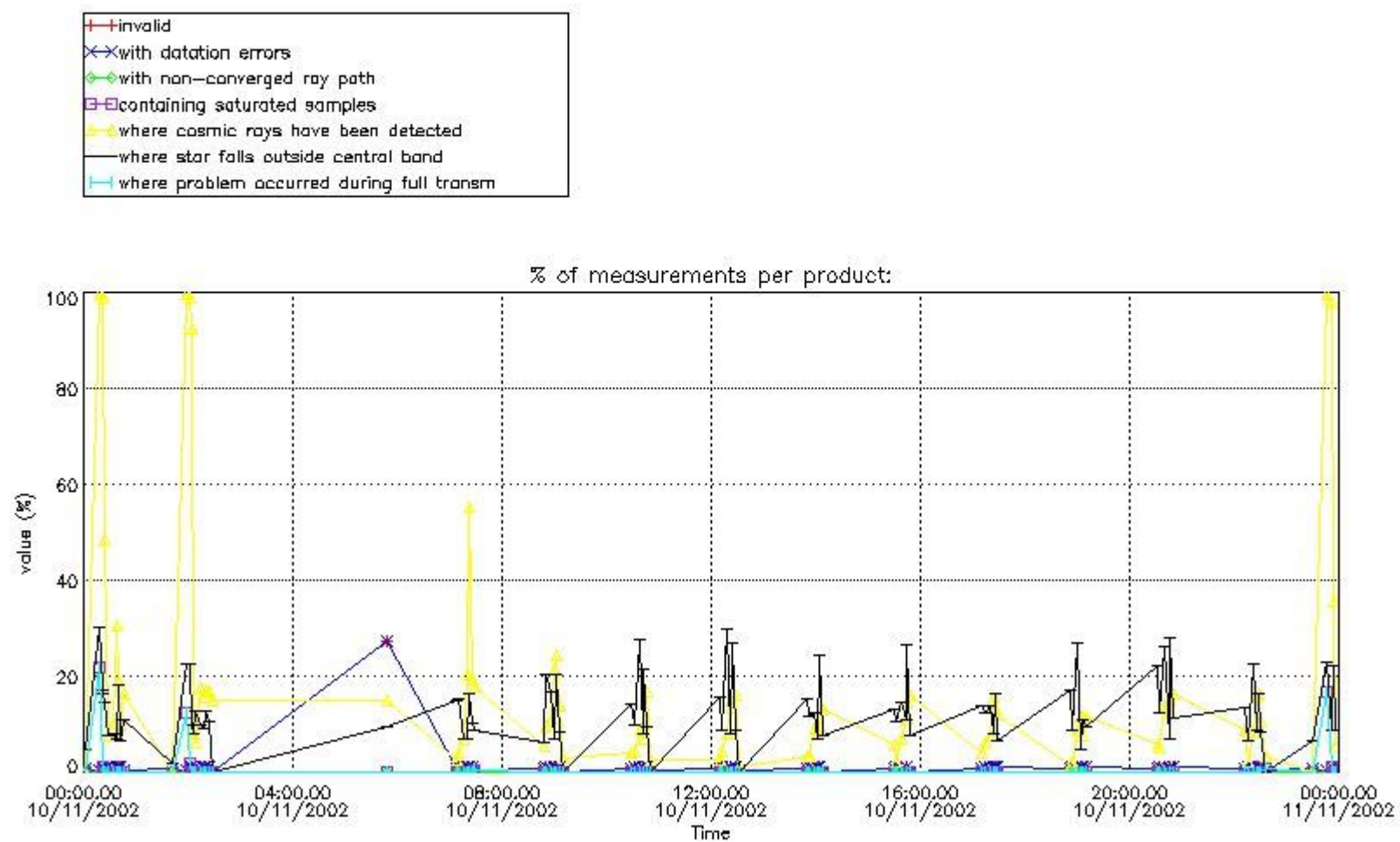


4. Level 1 quality information per product

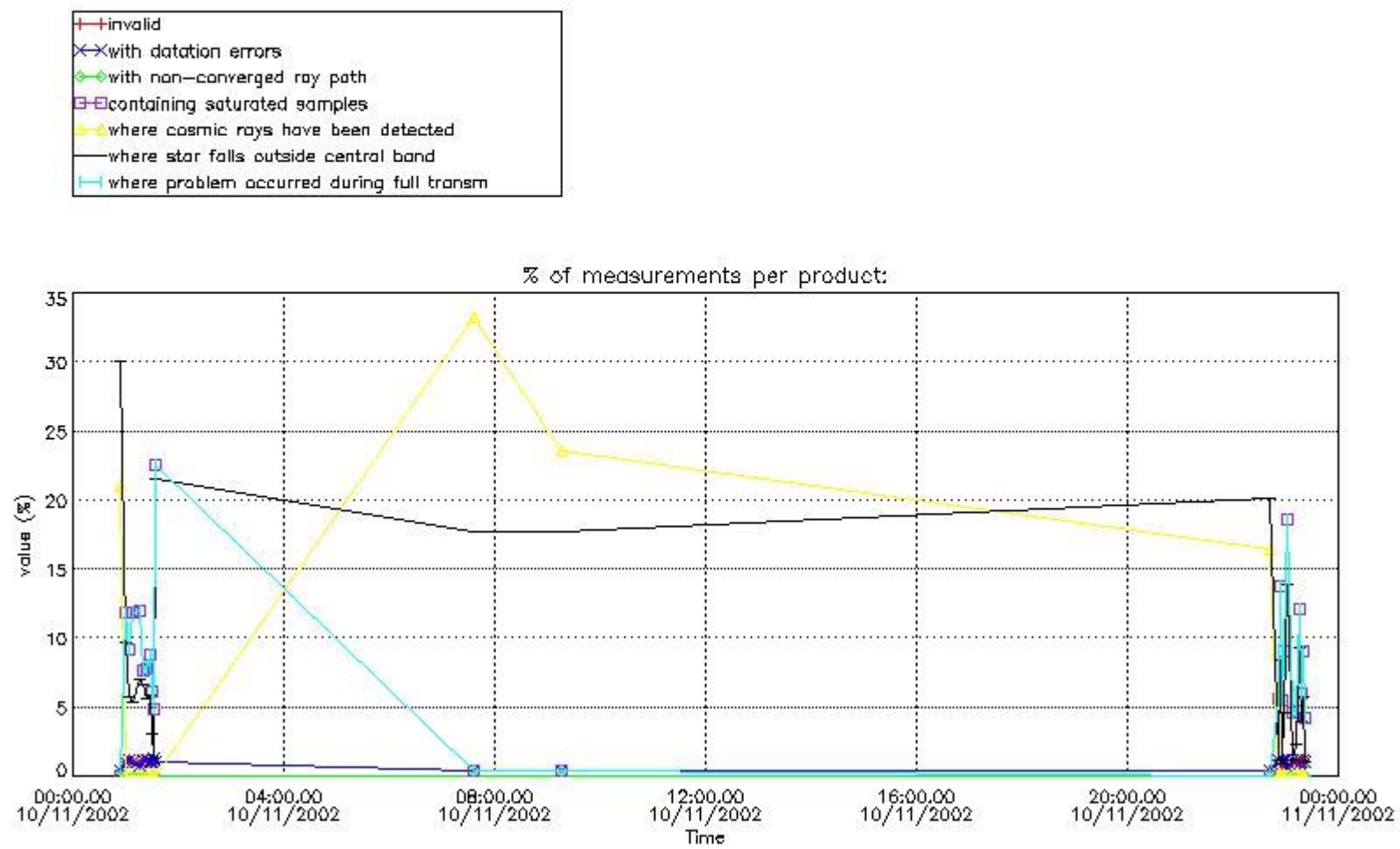
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

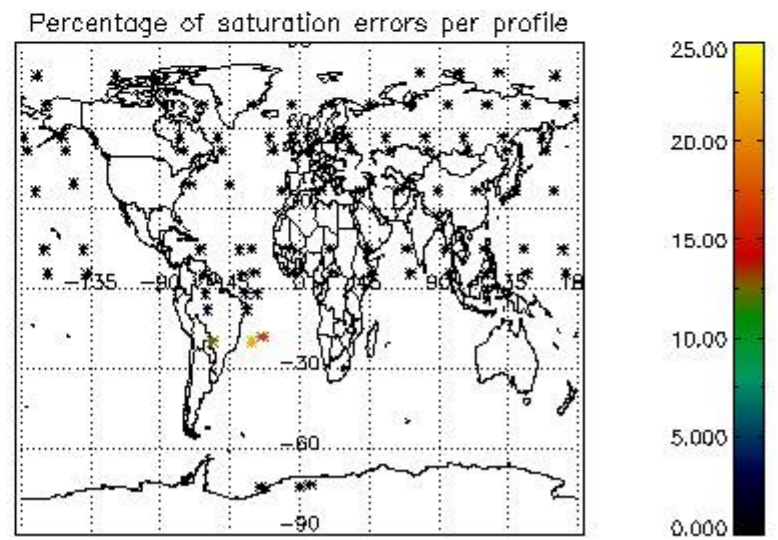
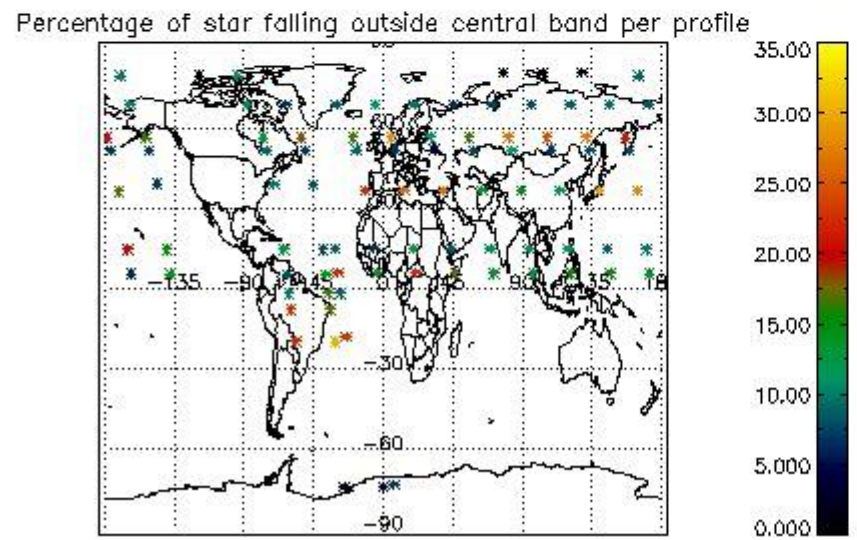
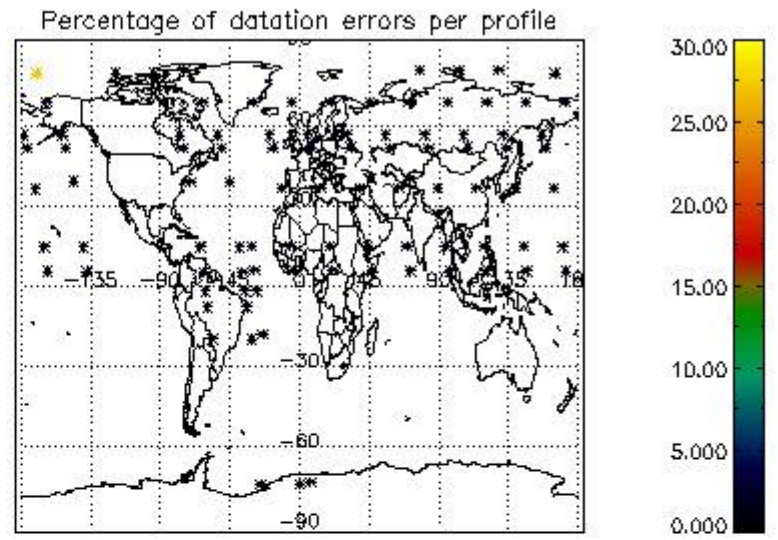
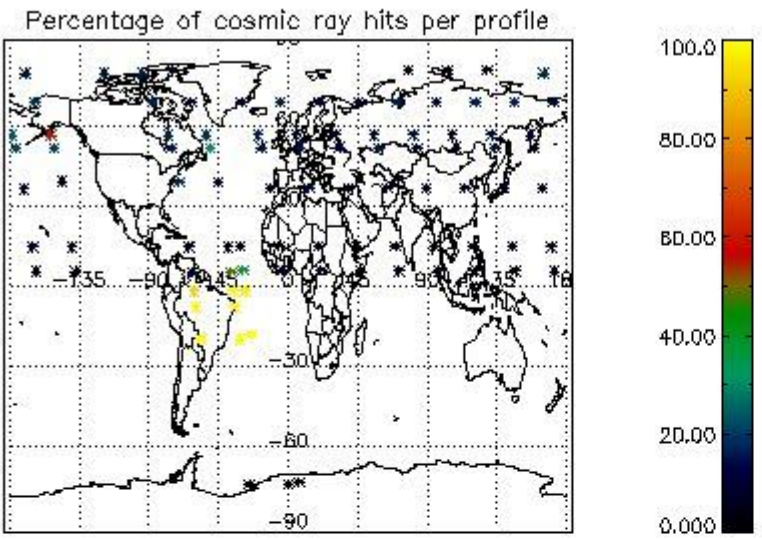


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



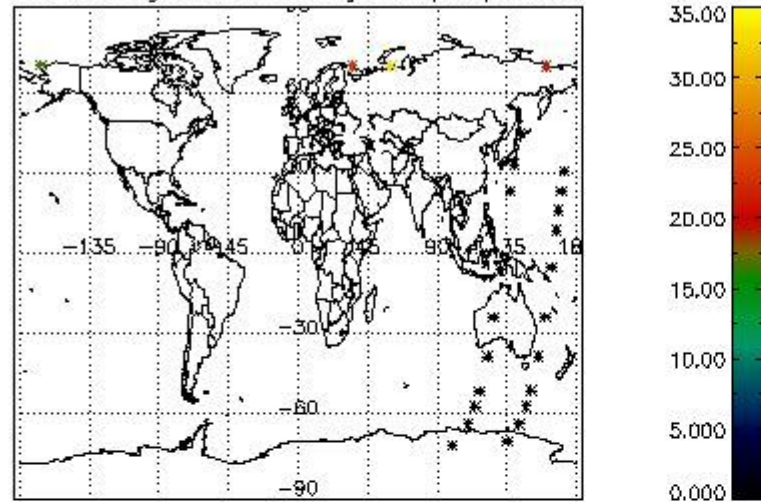
4.2 Plot quality information per product coming from level 1b processing (world map)

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

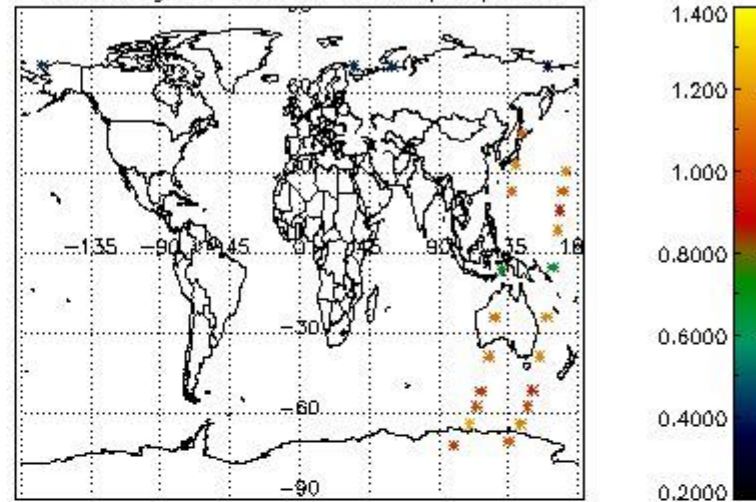


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

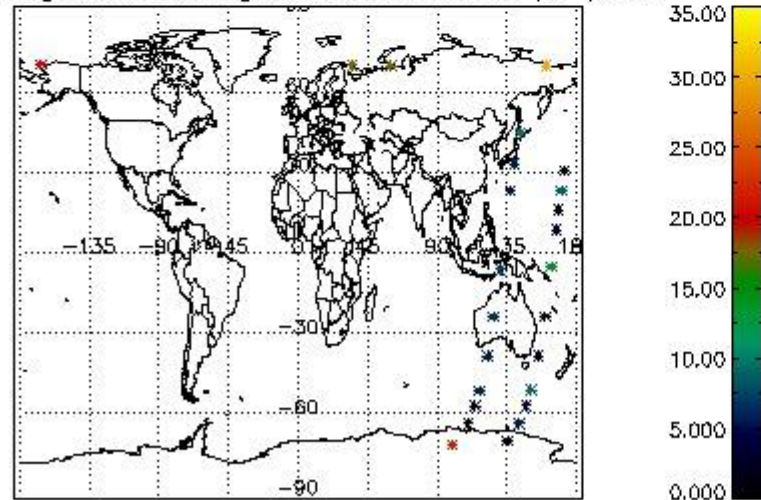
Percentage of cosmic ray hits per profile



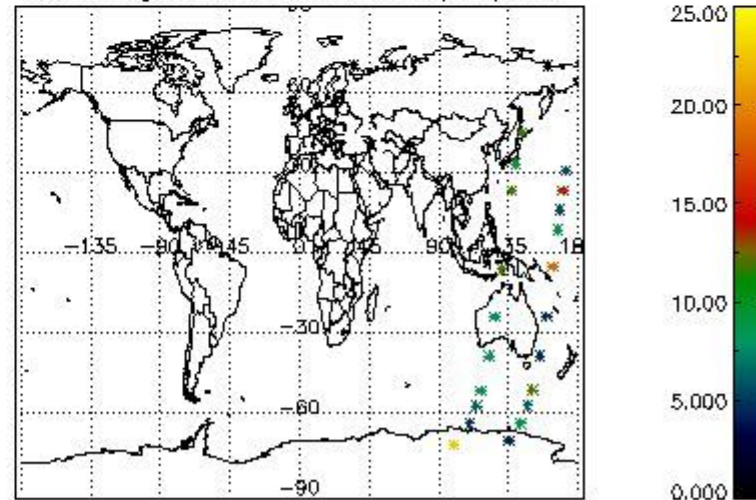
Percentage of datation errors per profile



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

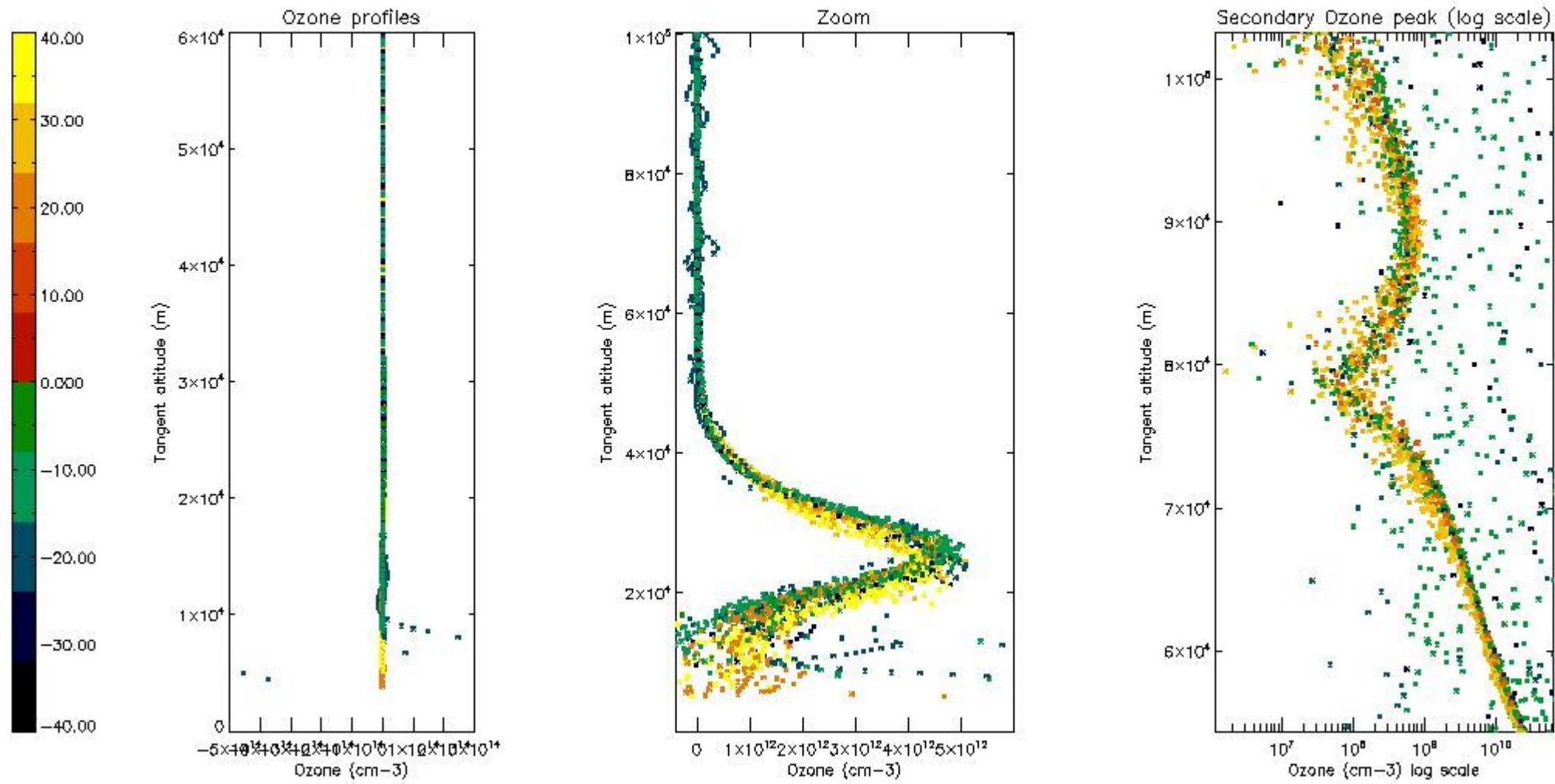
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	51
STD < 20	25

STD < 10	21
STD < 5	14

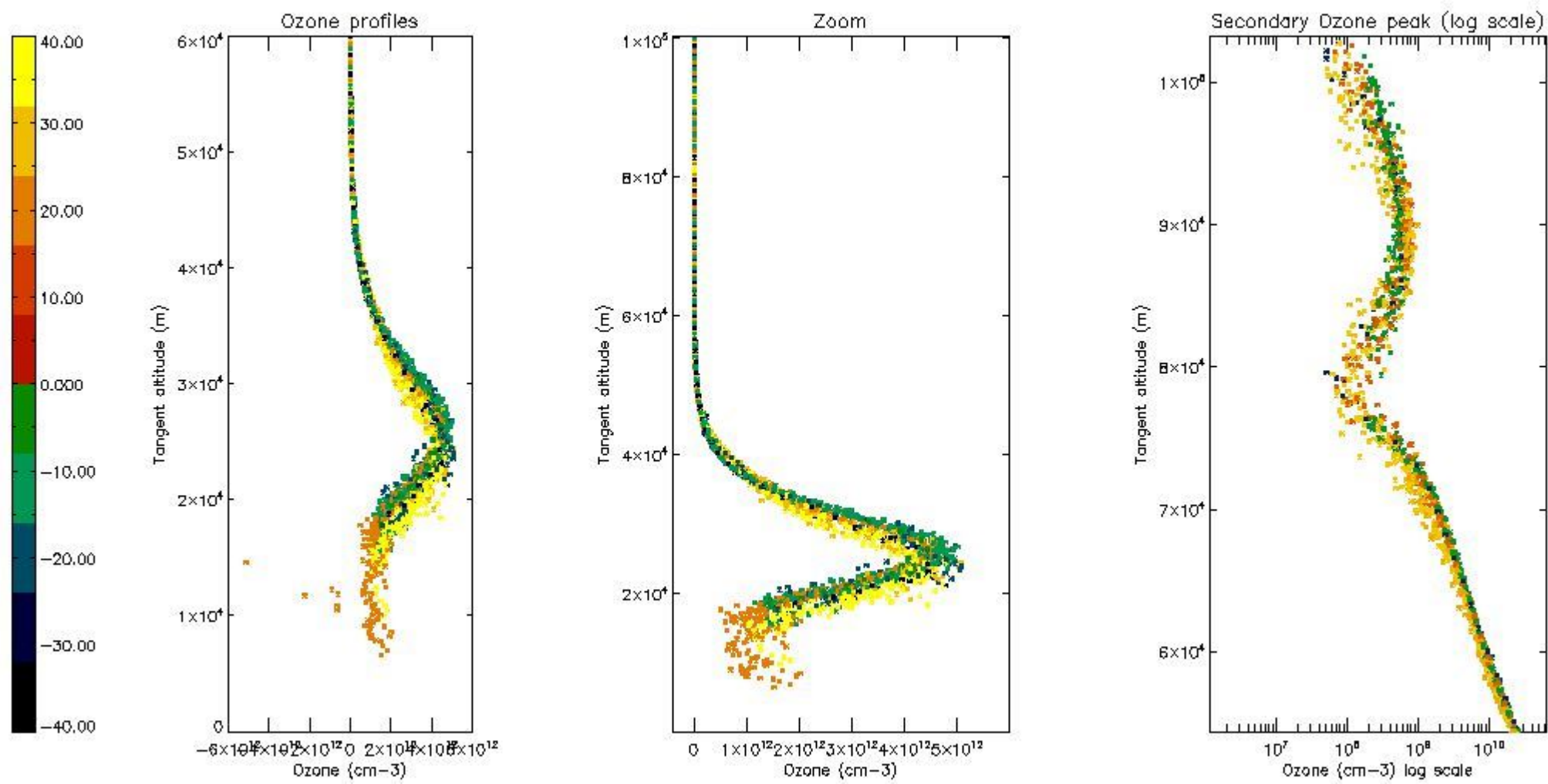
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



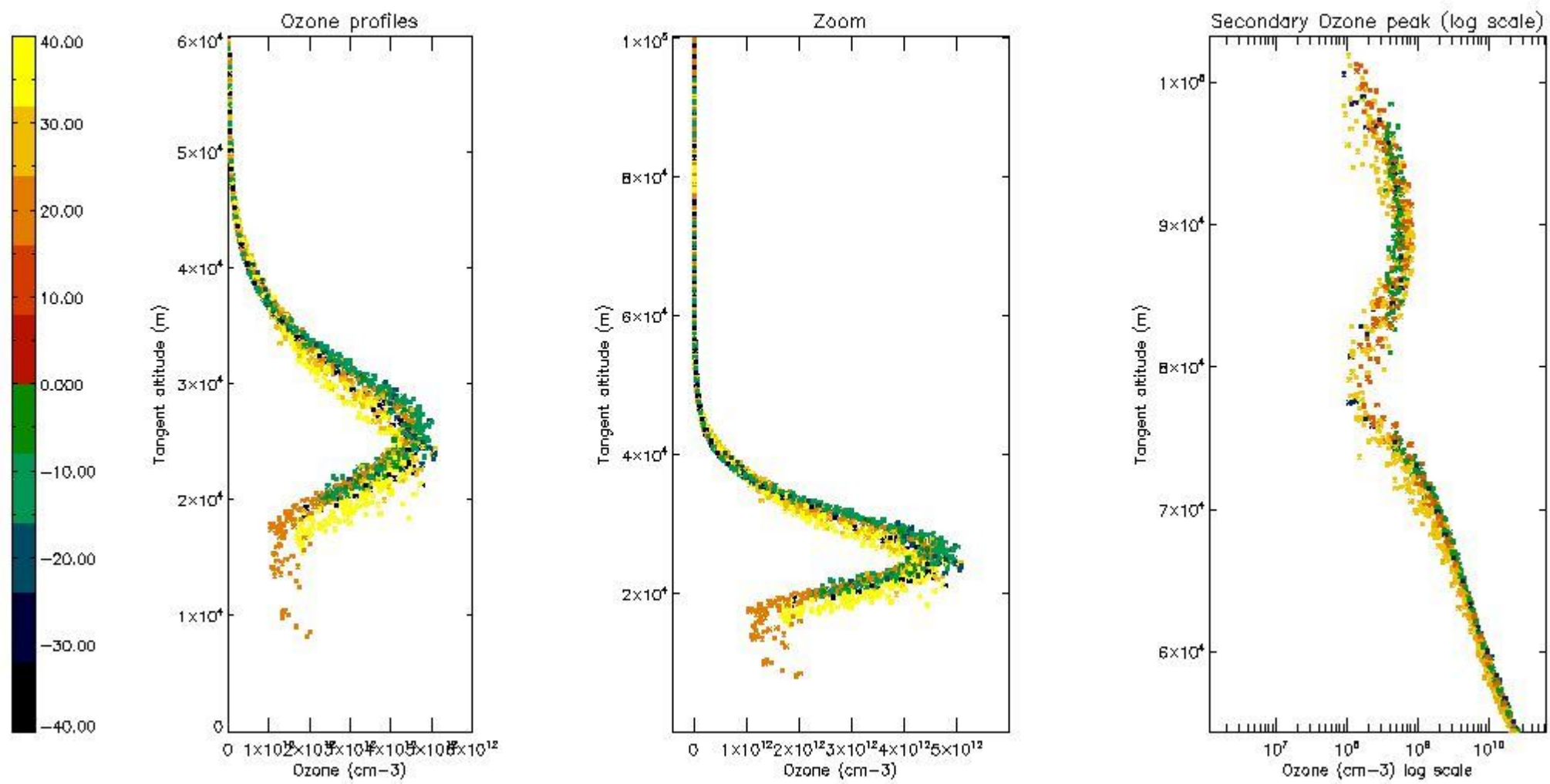
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



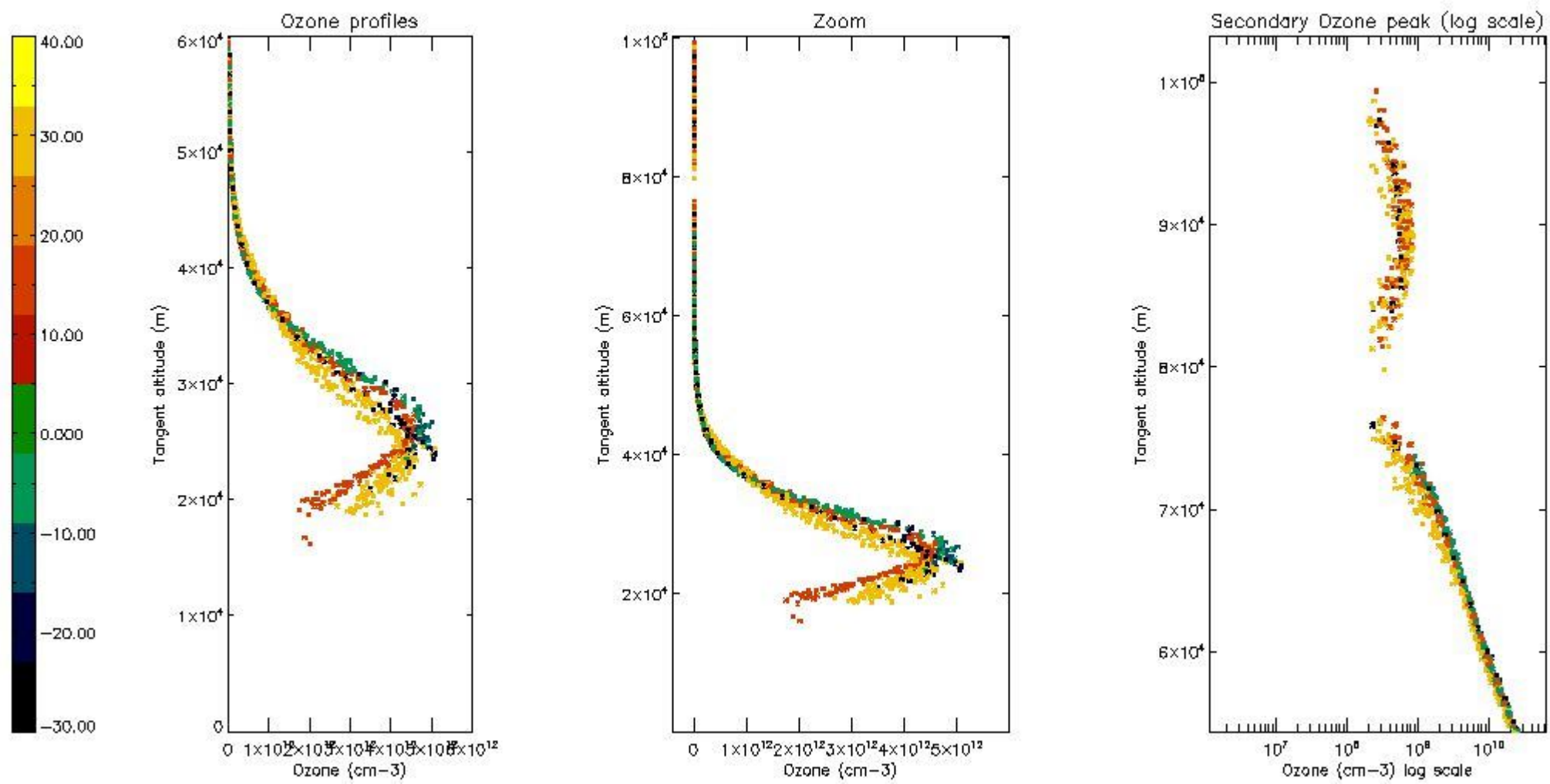
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



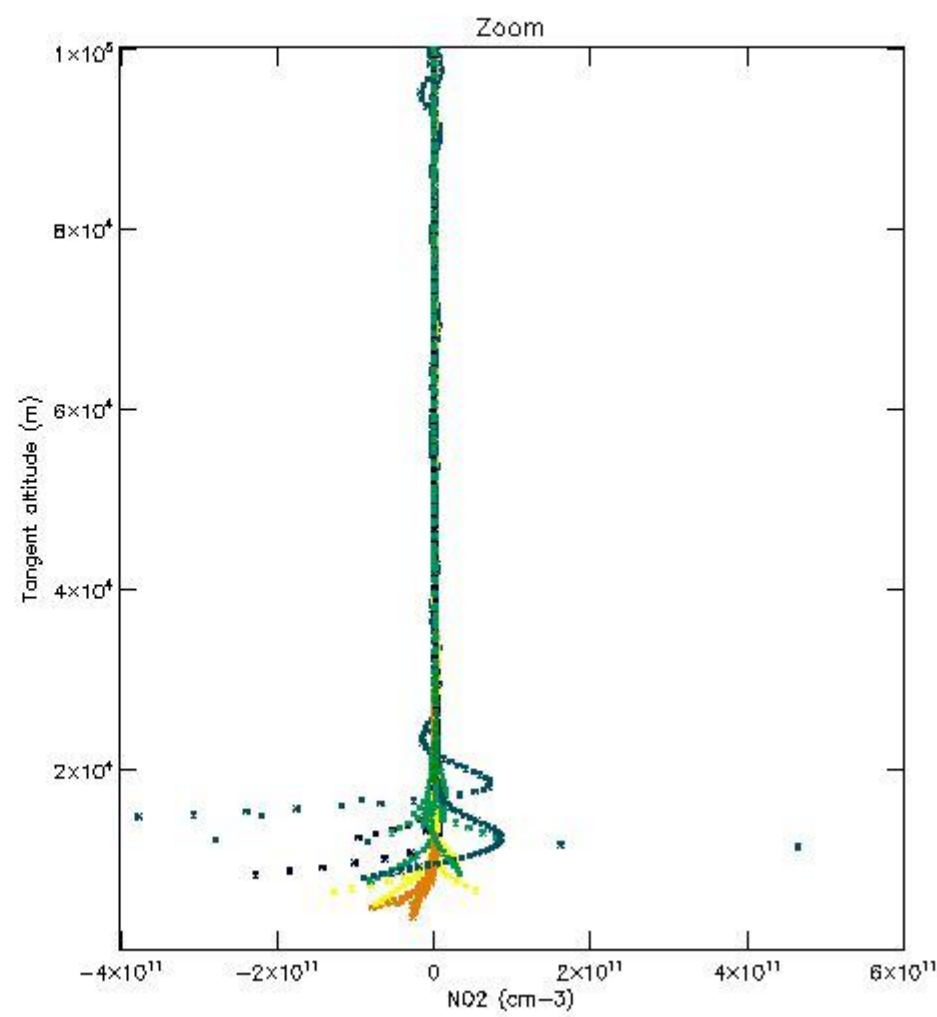
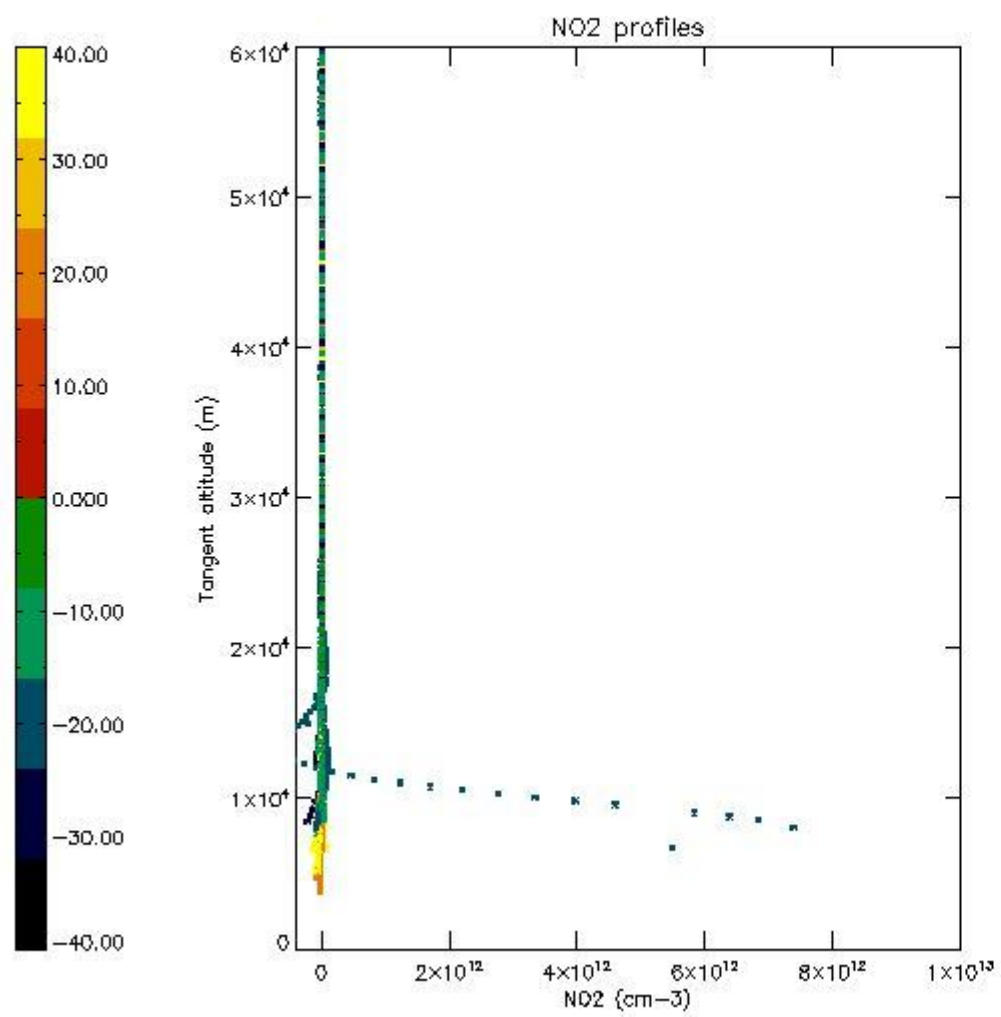
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



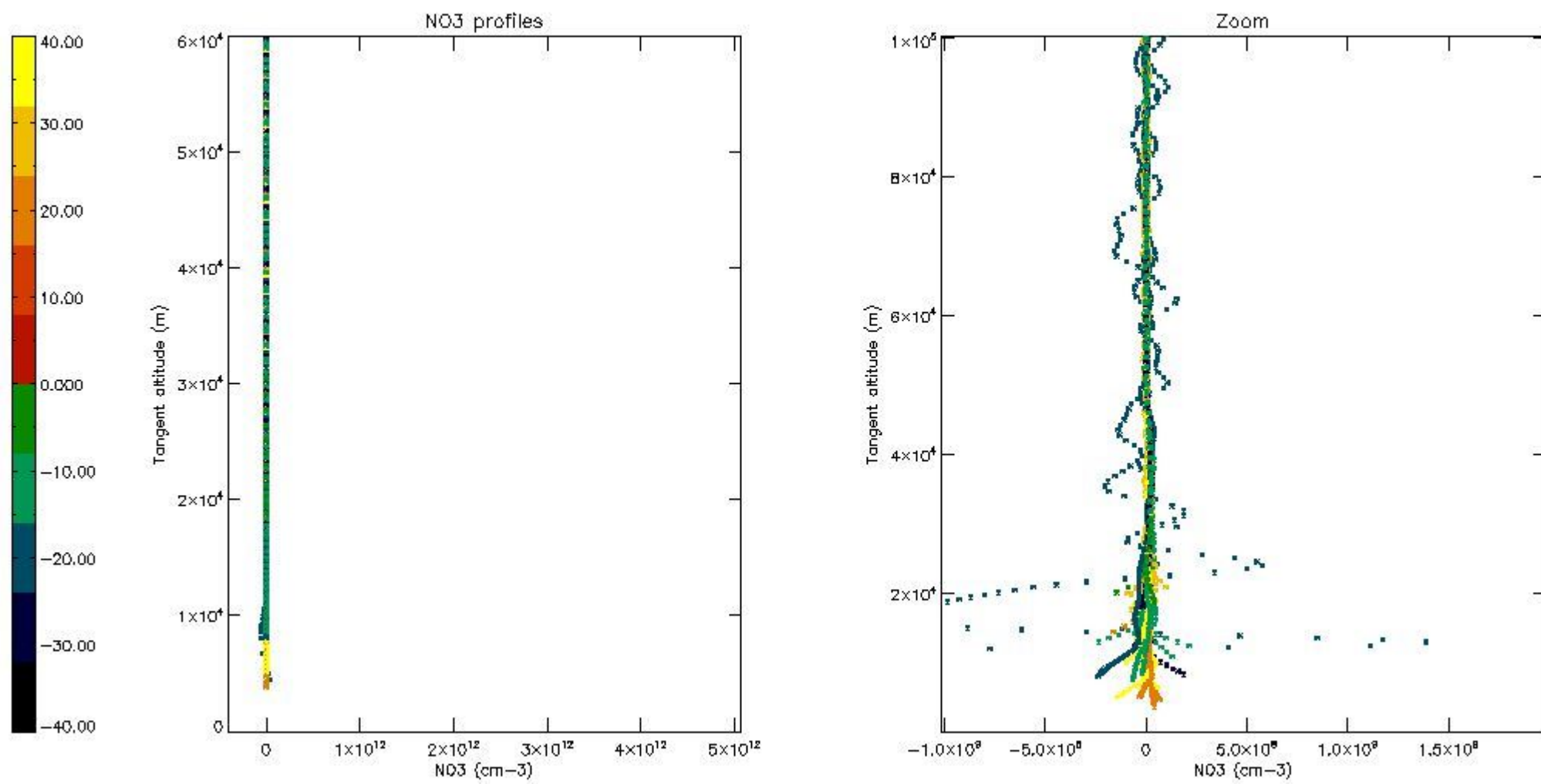
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



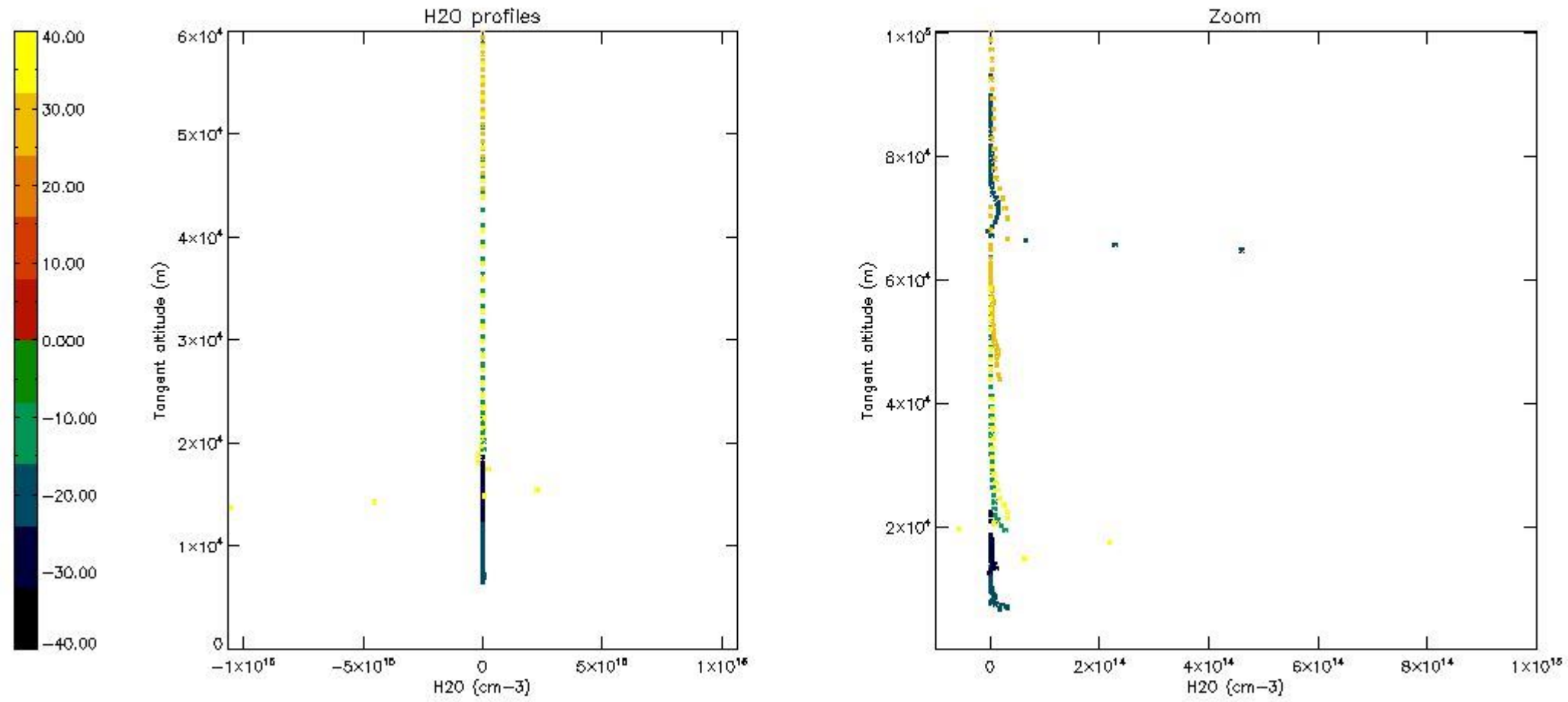
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

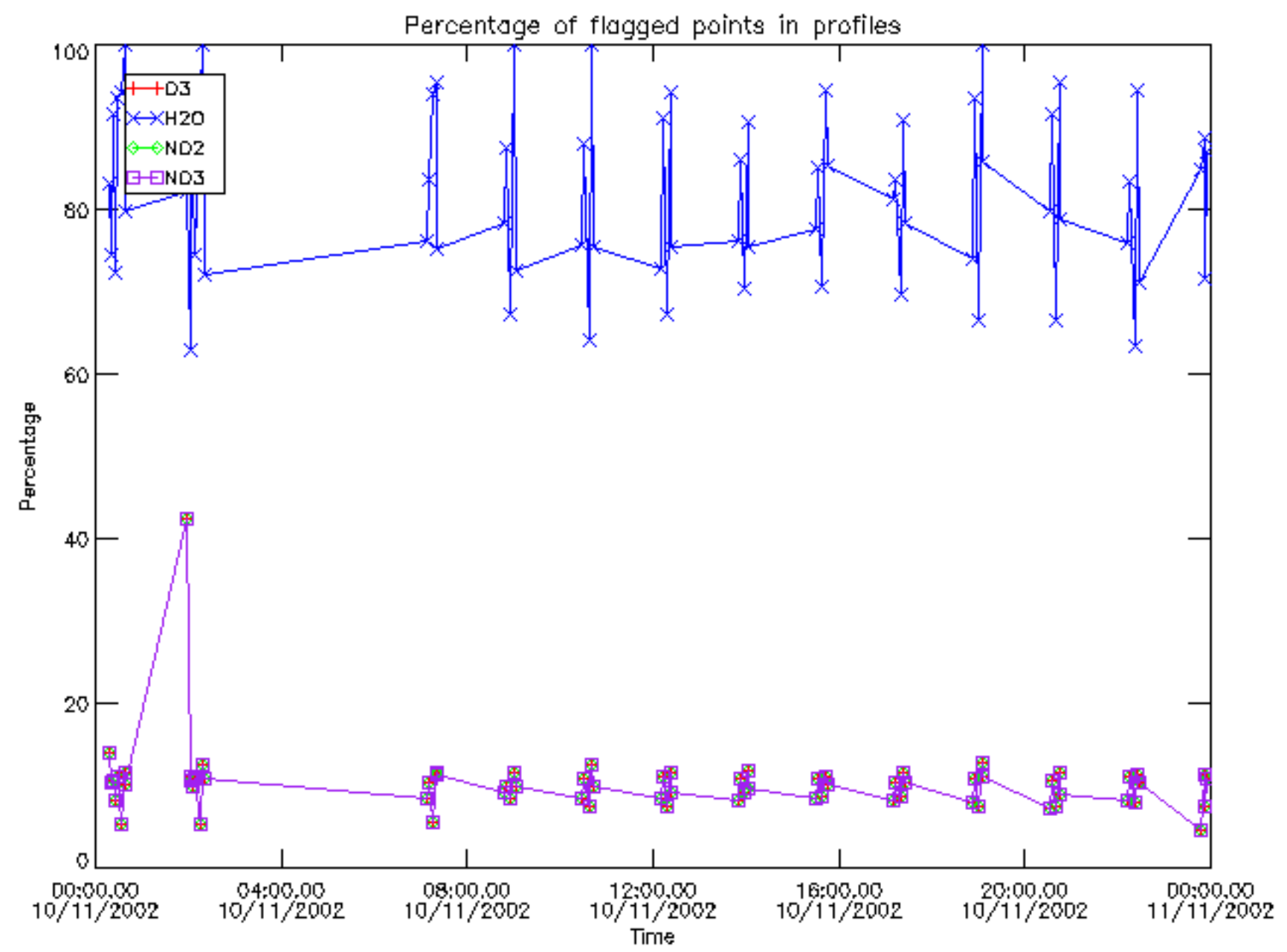
The colorbar represents the latitude.



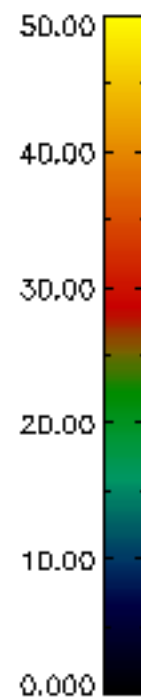
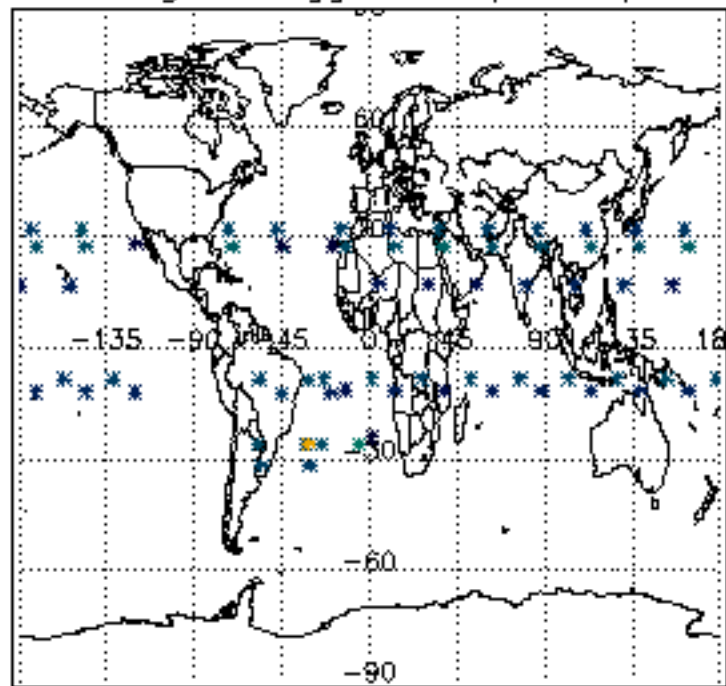
6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

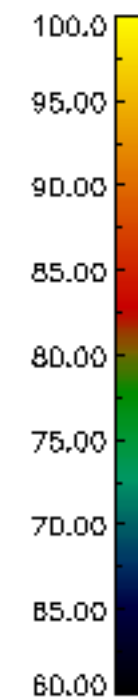
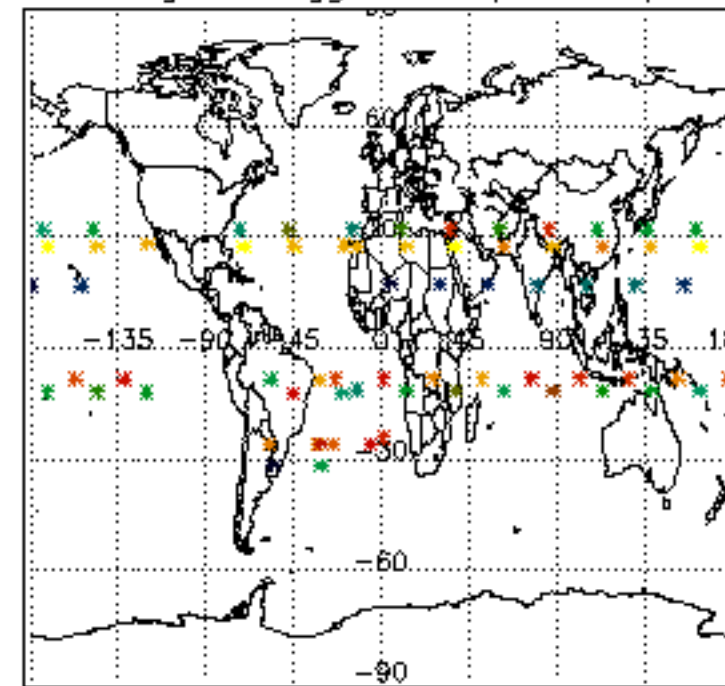
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	10-NOV-2002 00:02:01
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	10-NOV-2002 00:02:01
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	10-NOV-2002 00:02:01



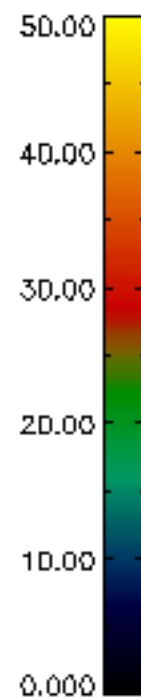
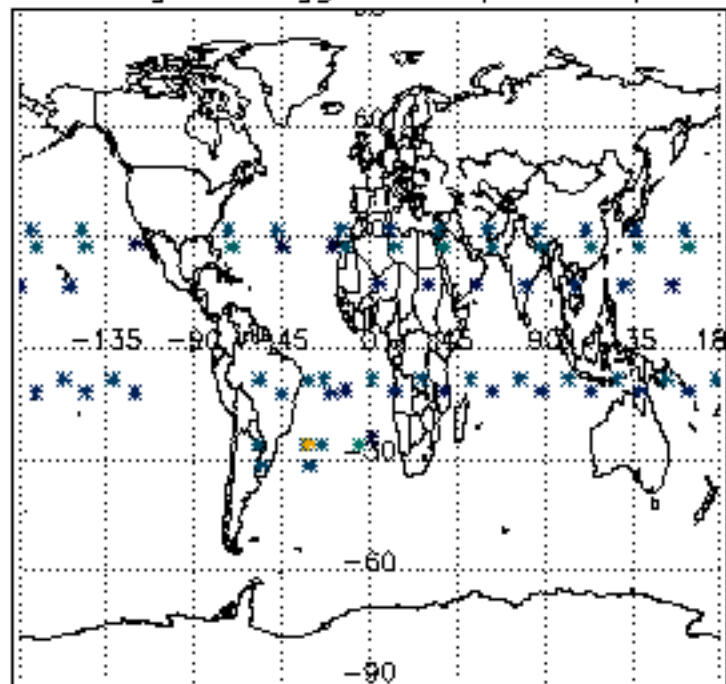
Percentage of flagged data per D3 profile



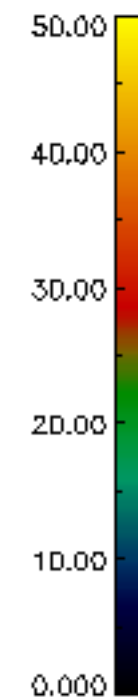
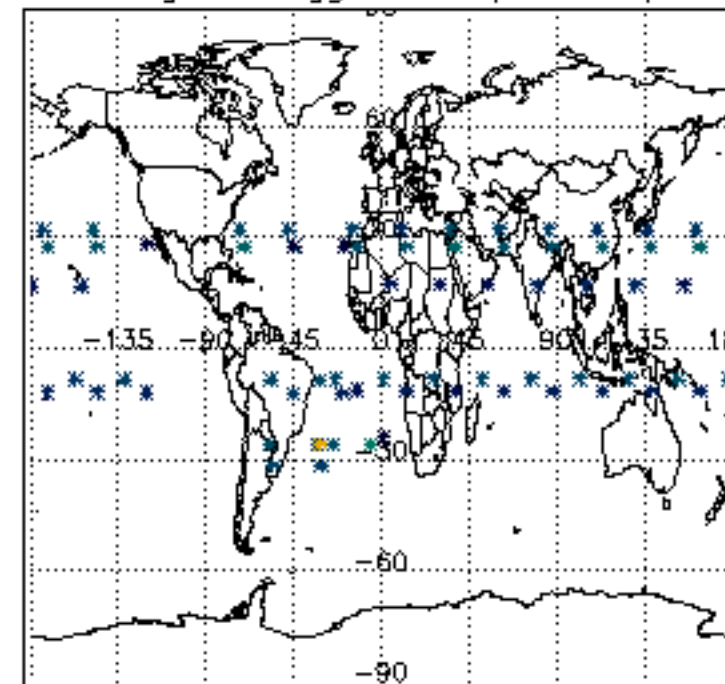
Percentage of flagged data per H2O profile

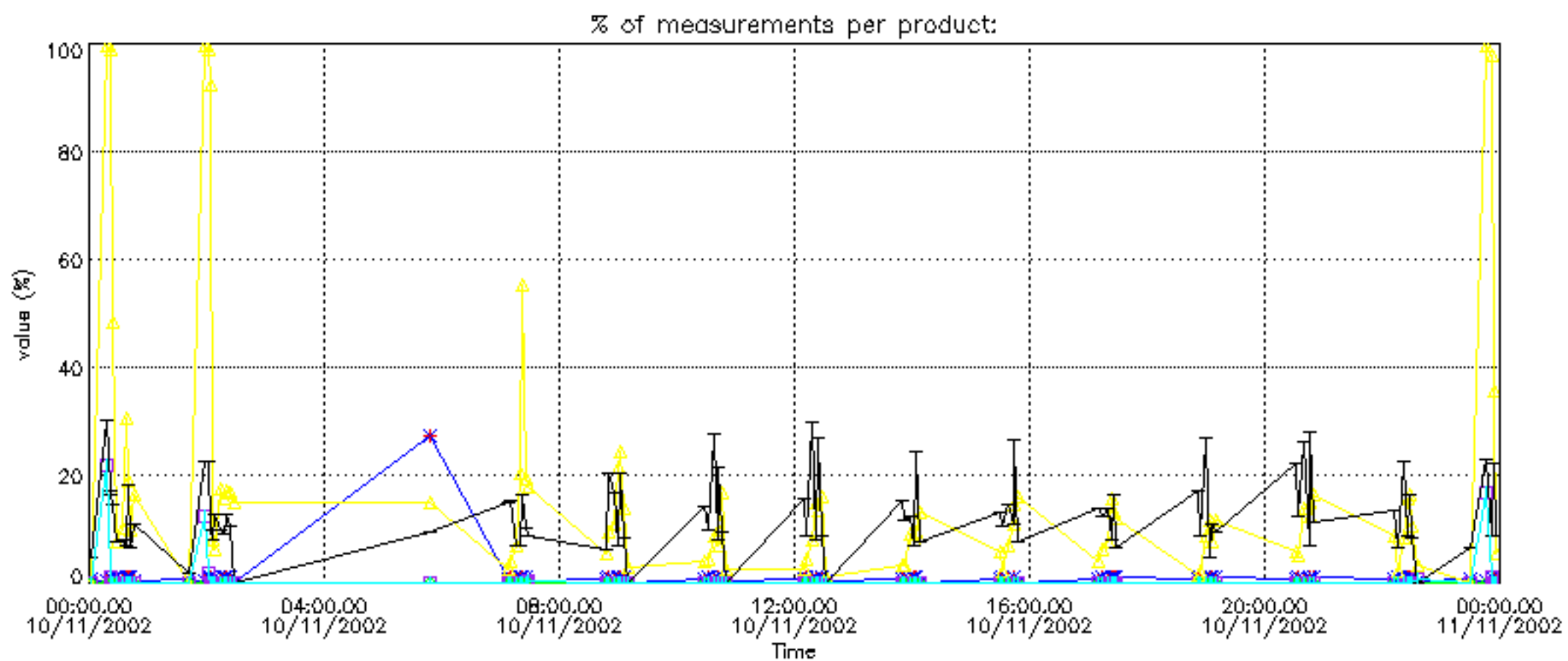


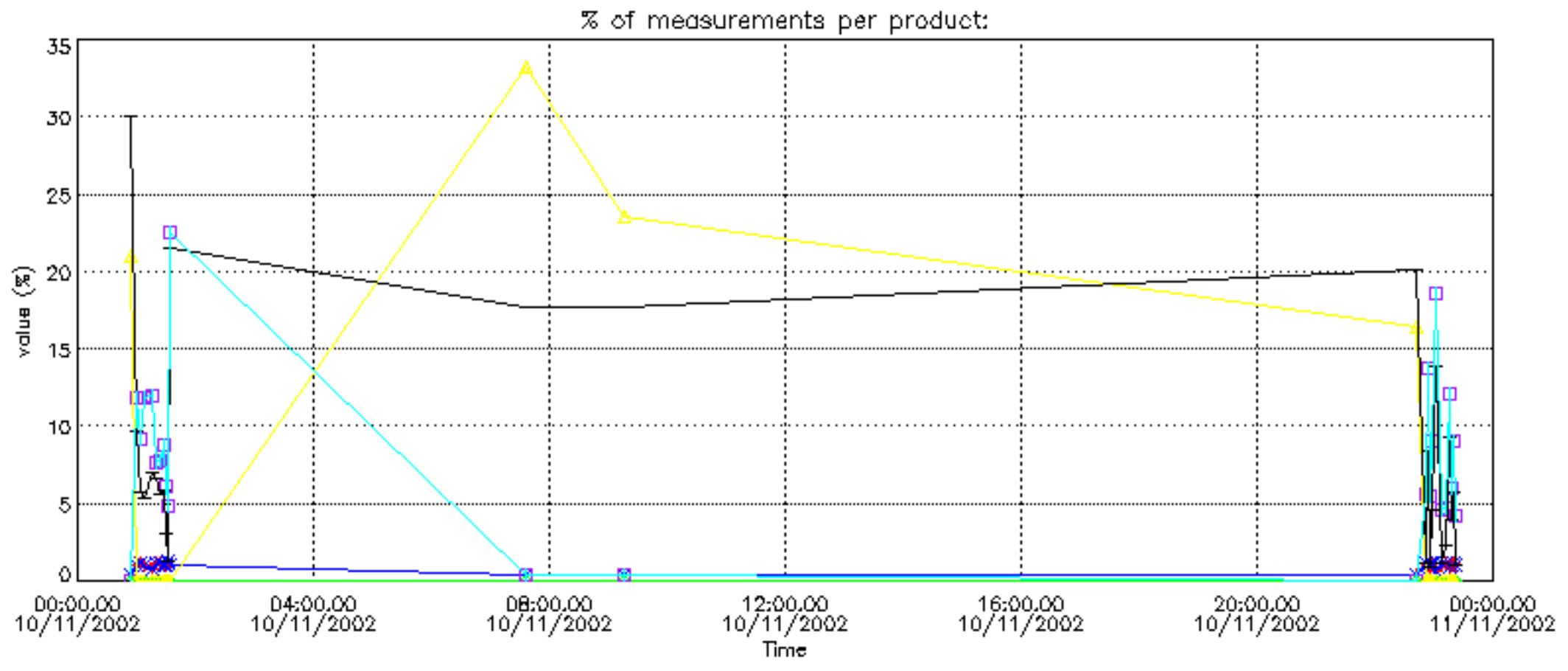
Percentage of flagged data per NO2 profile



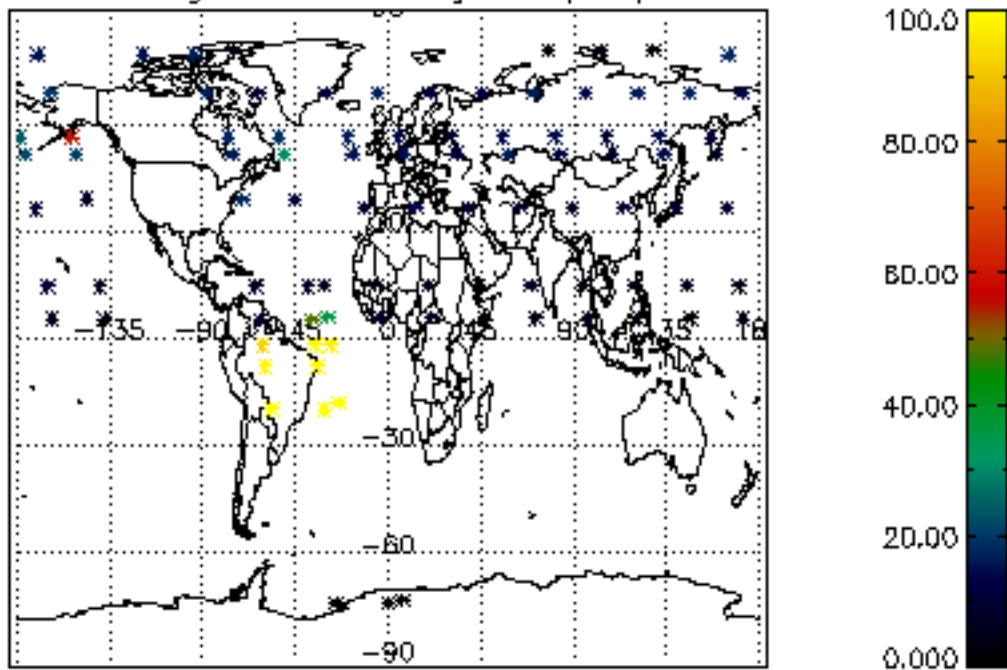
Percentage of flagged data per NO3 profile



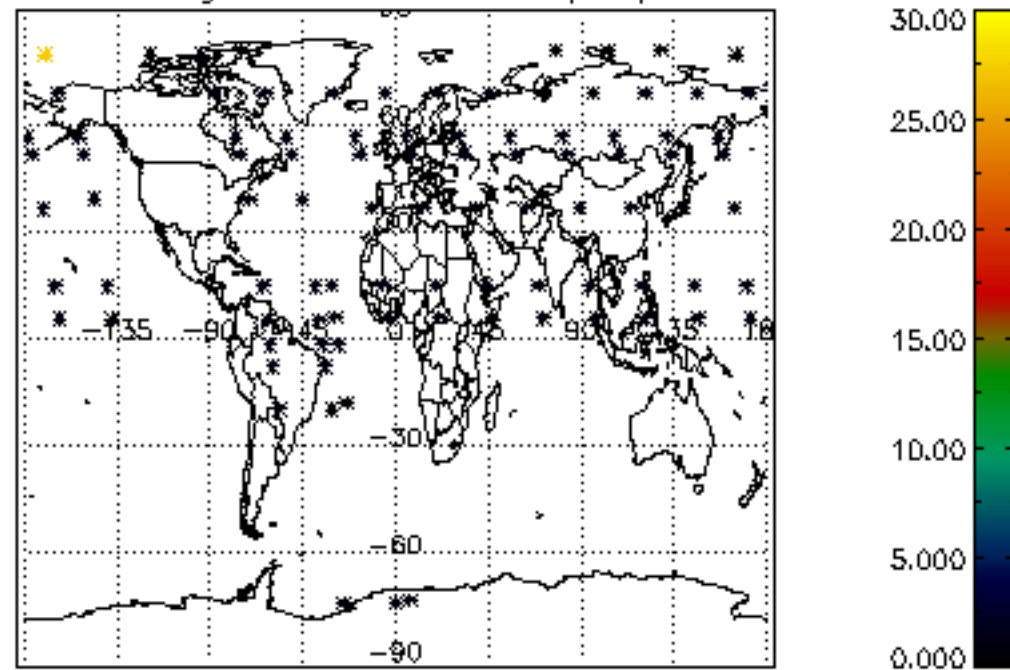




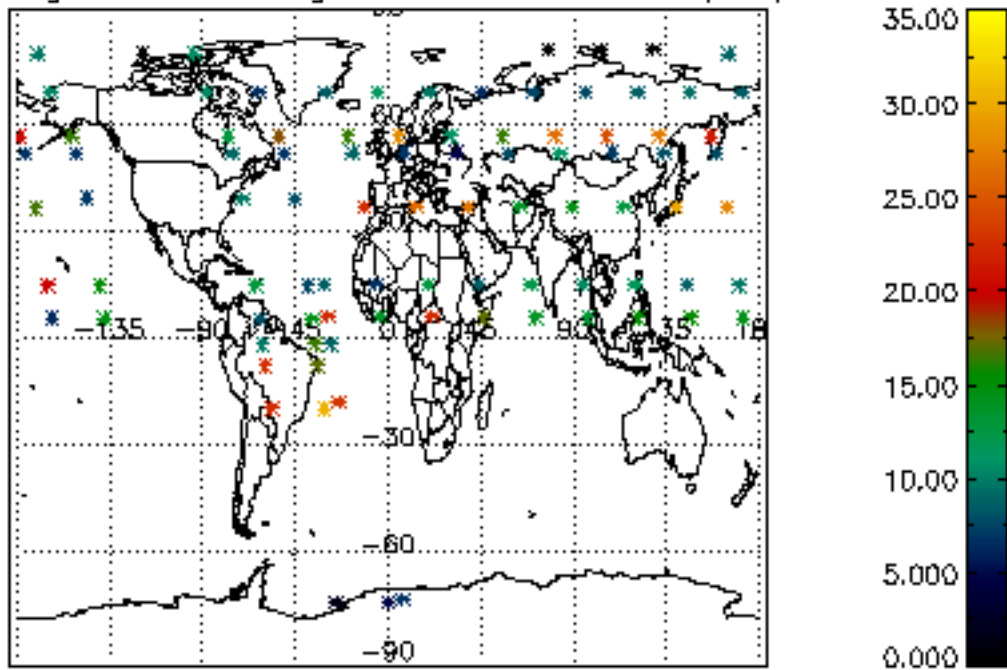
Percentage of cosmic ray hits per profile



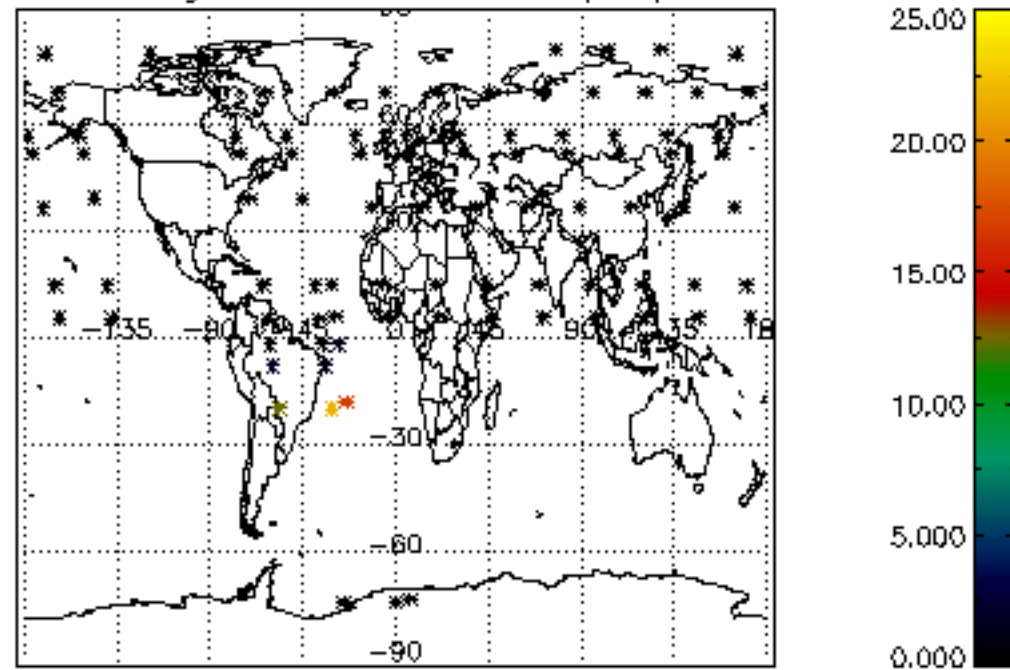
Percentage of datation errors per profile



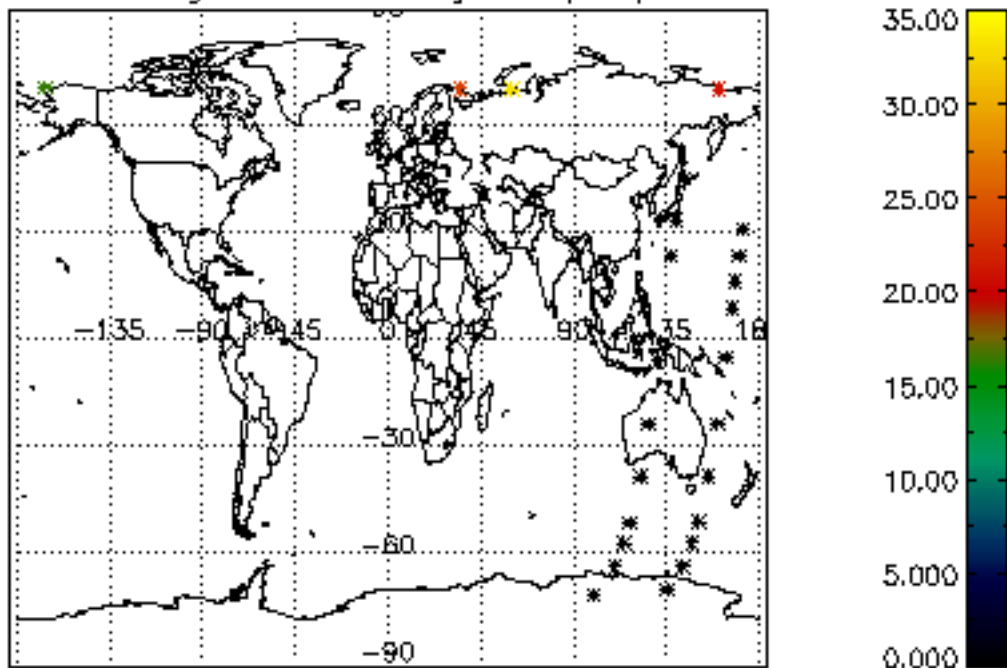
Percentage of star falling outside central band per profile



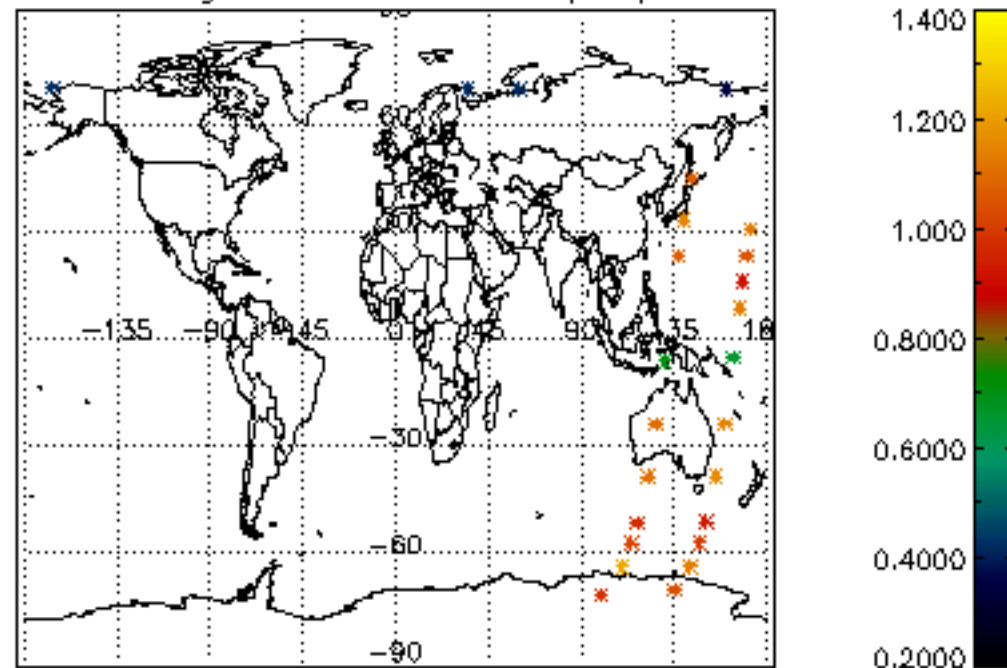
Percentage of saturation errors per profile



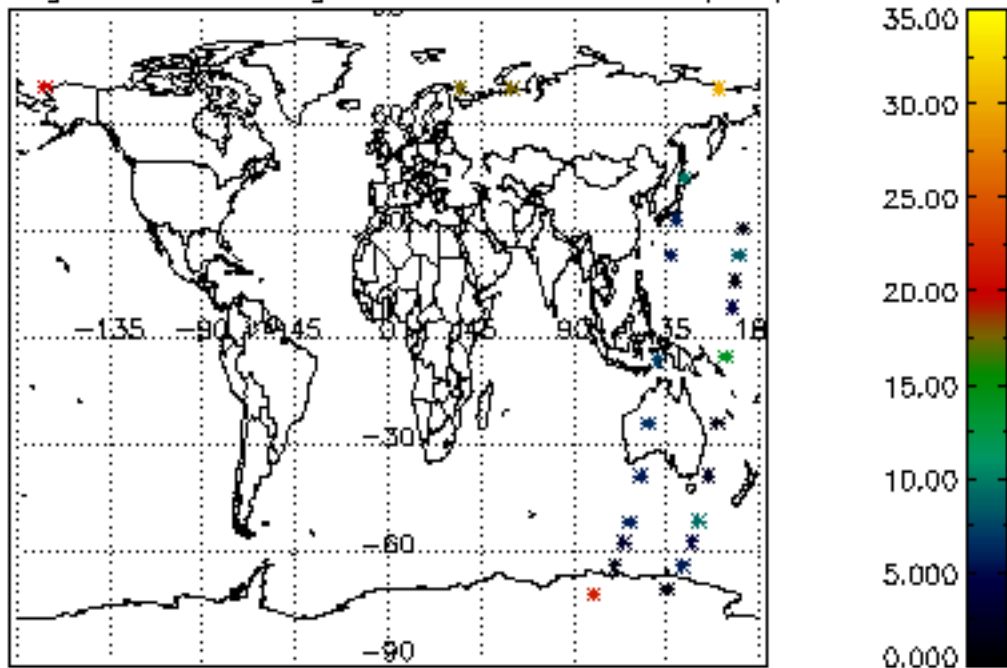
Percentage of cosmic ray hits per profile



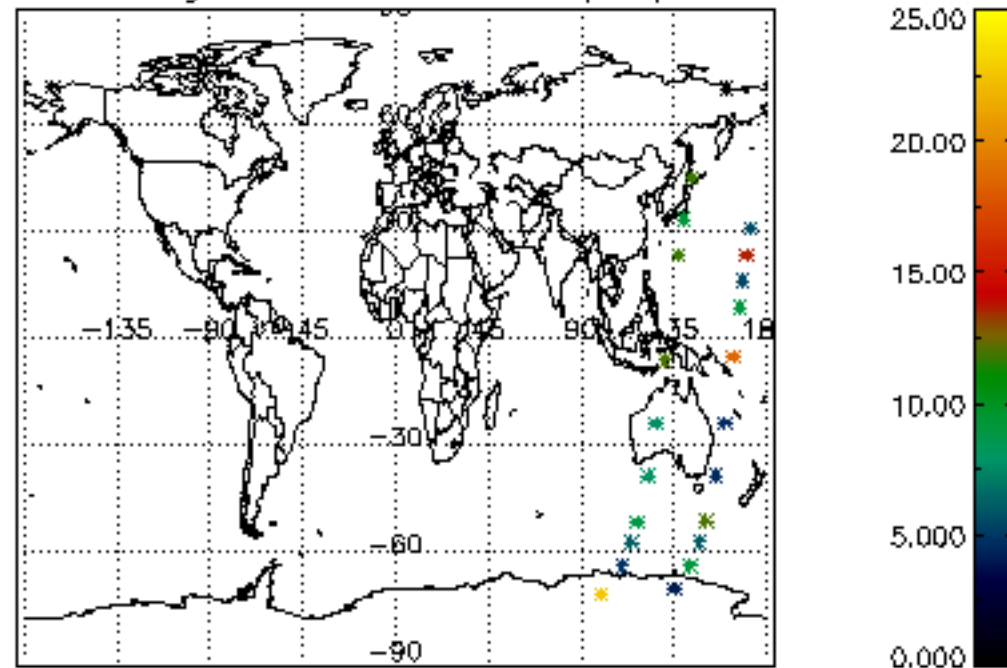
Percentage of datation errors per profile

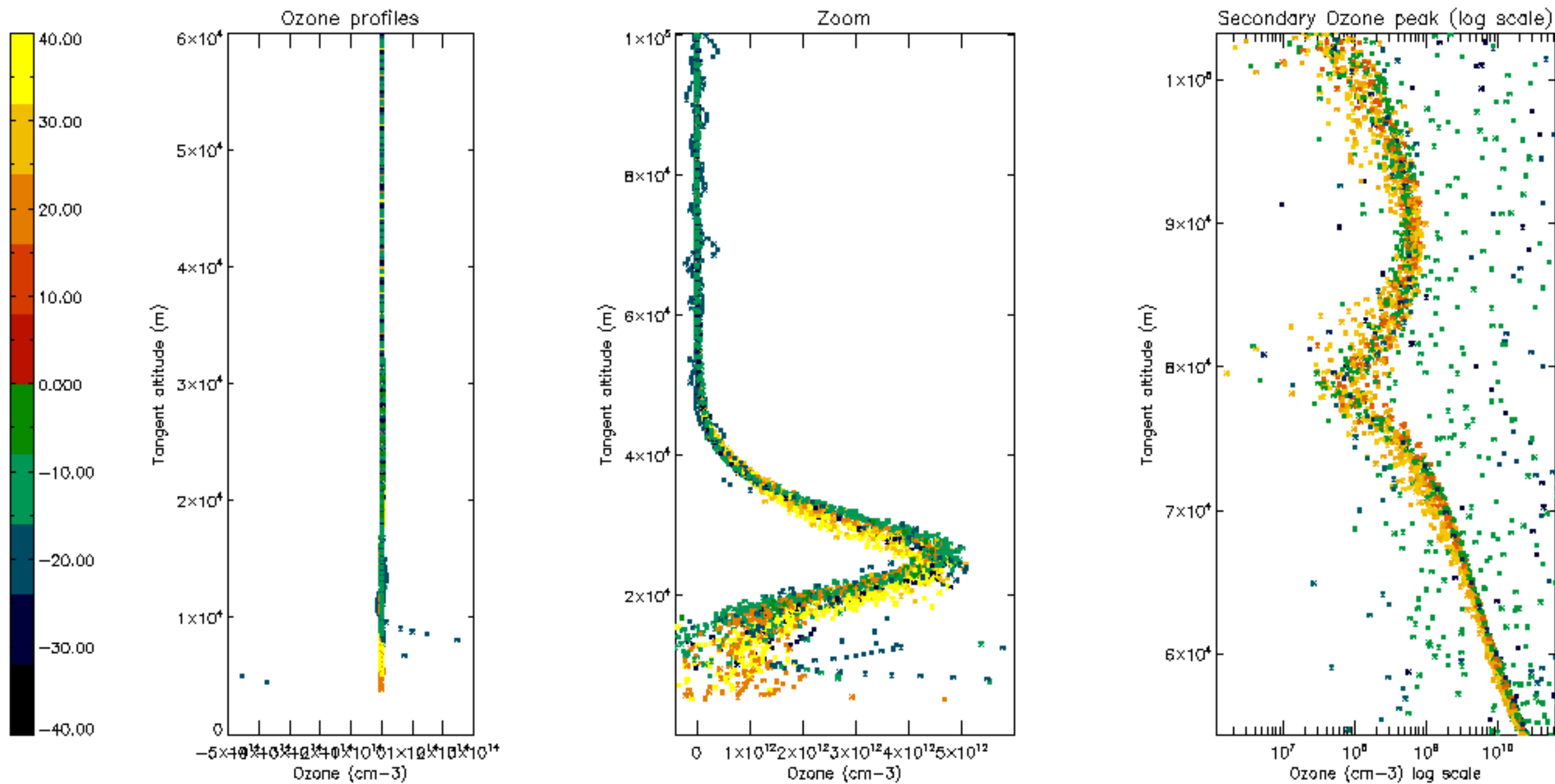


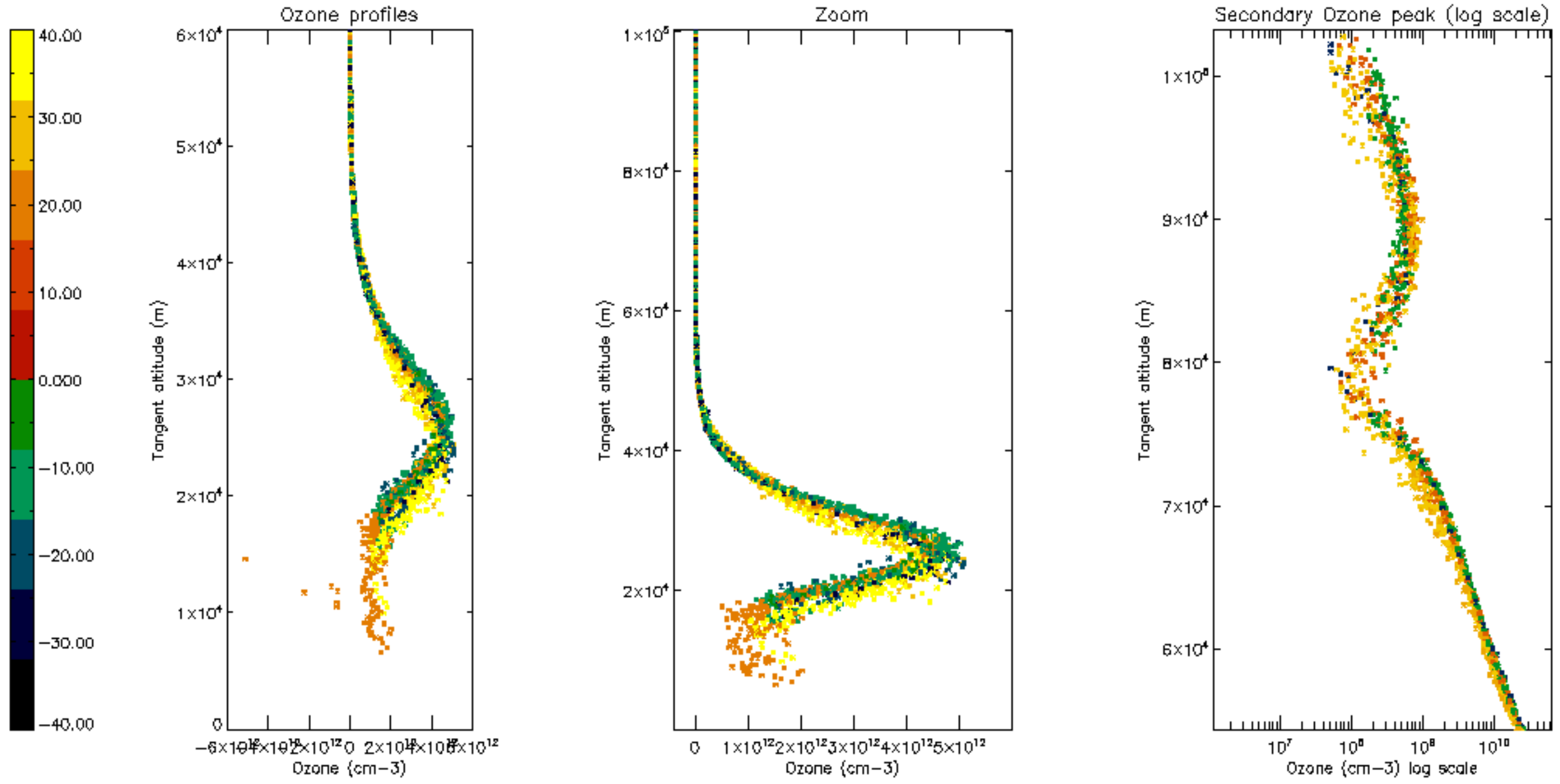
Percentage of star falling outside central band per profile

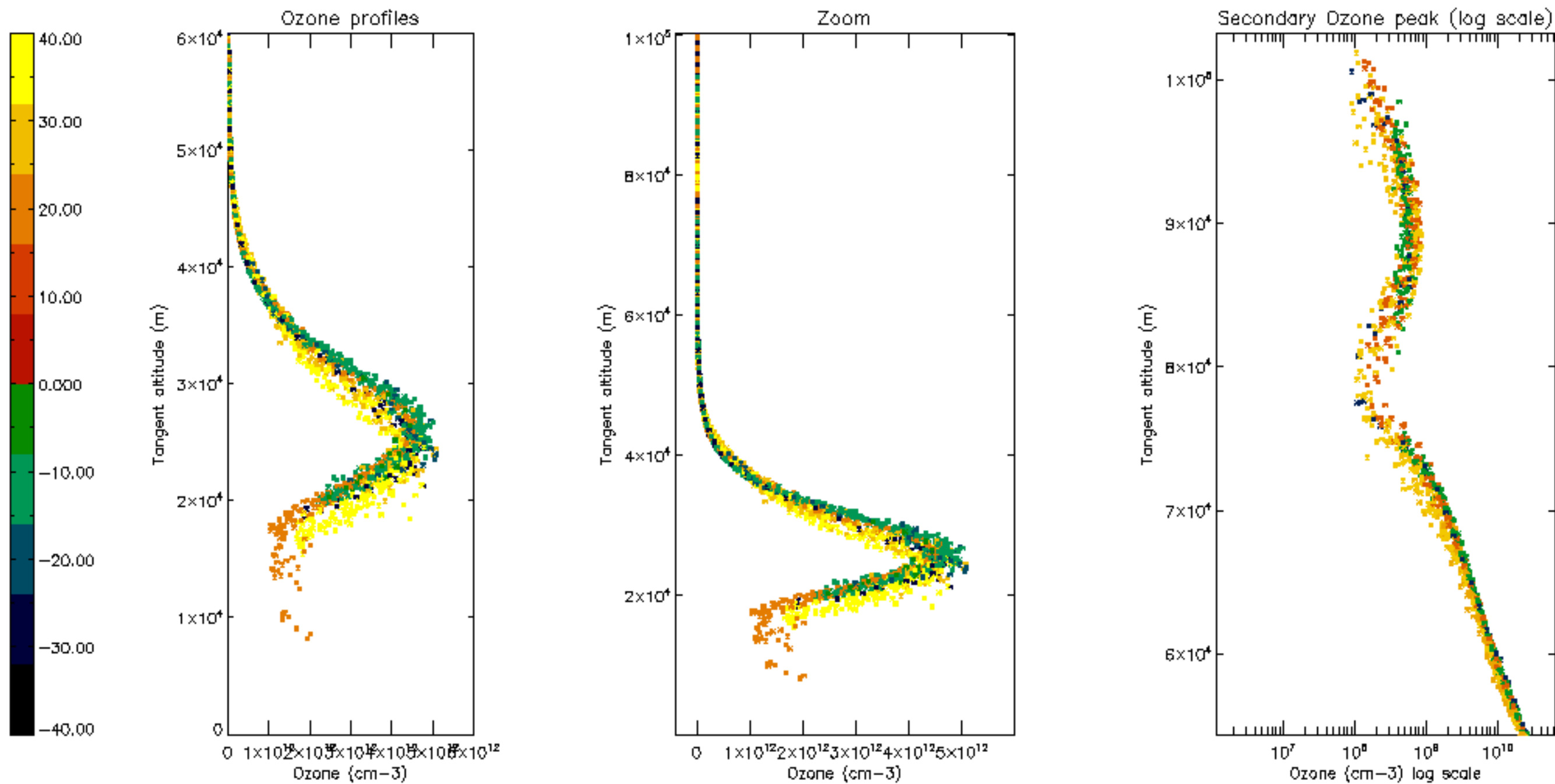


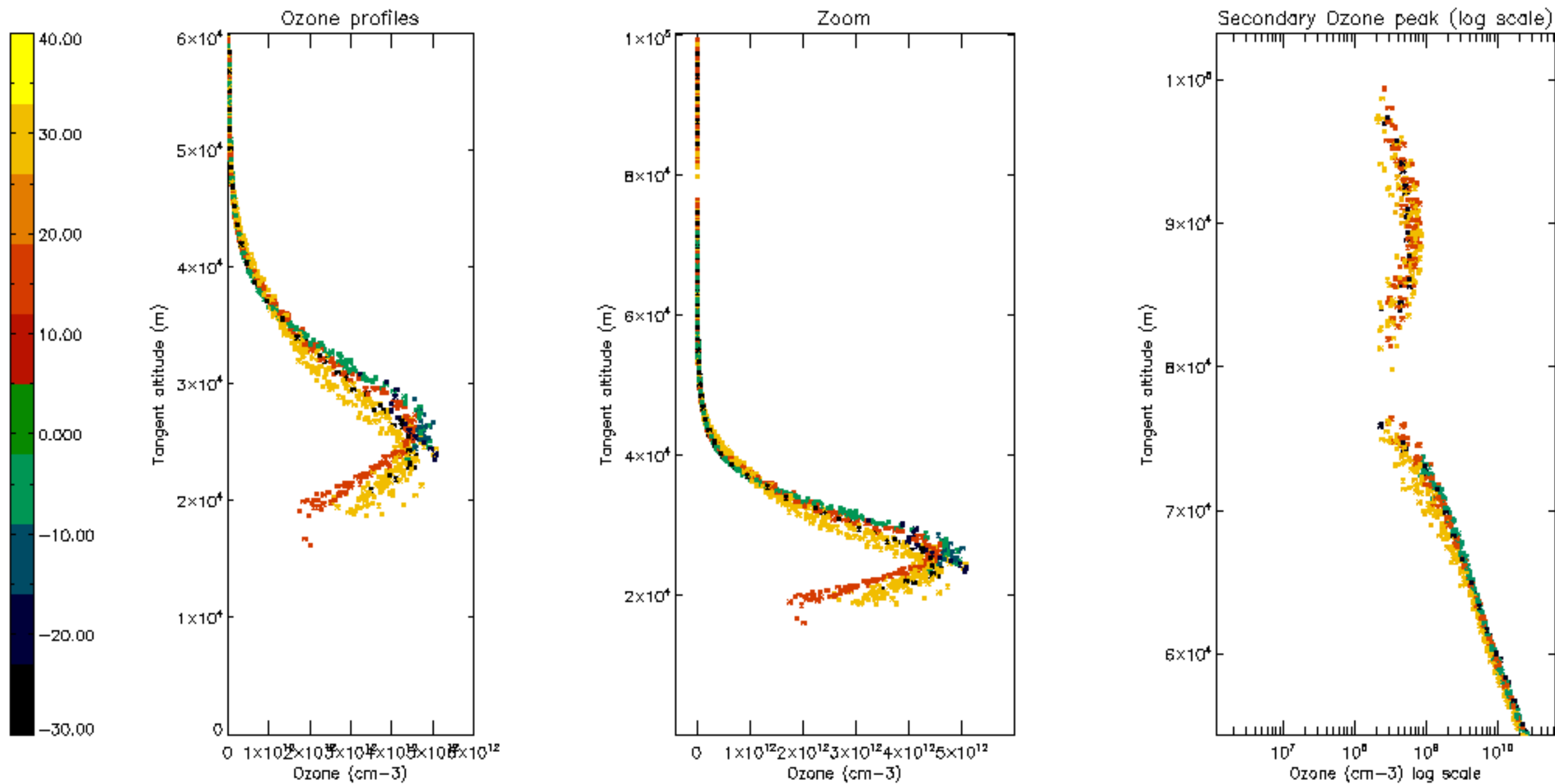
Percentage of saturation errors per profile

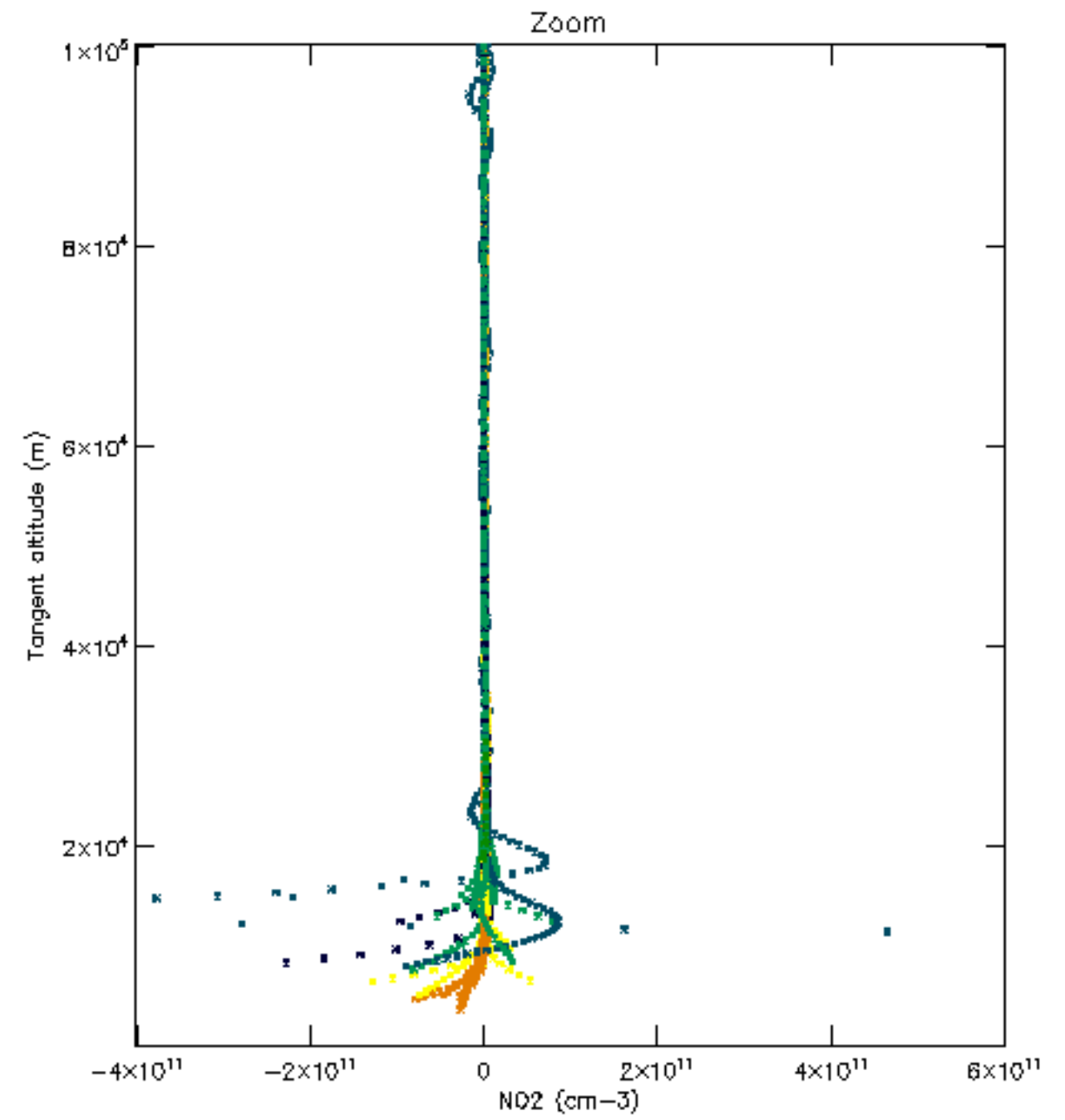
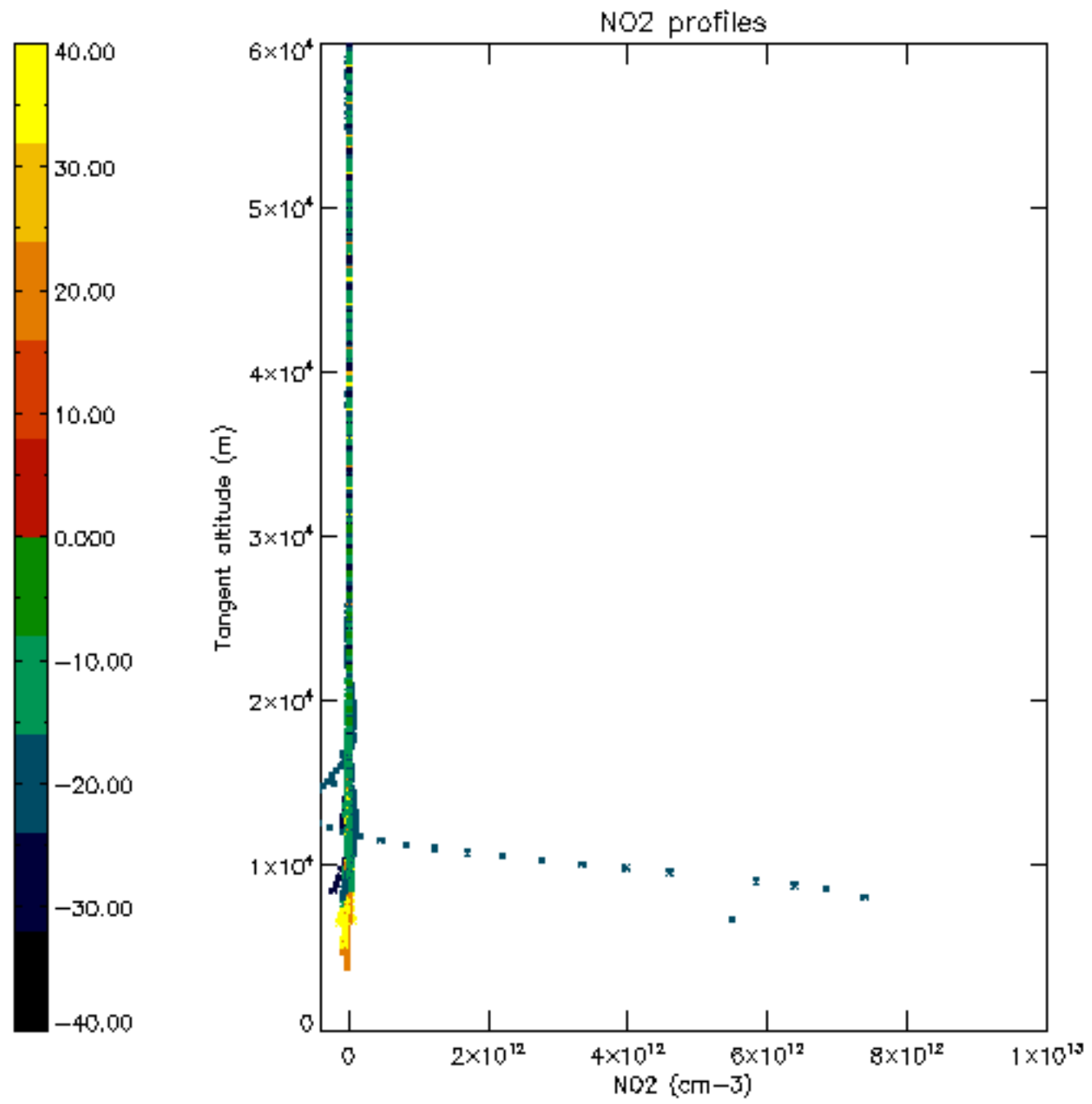


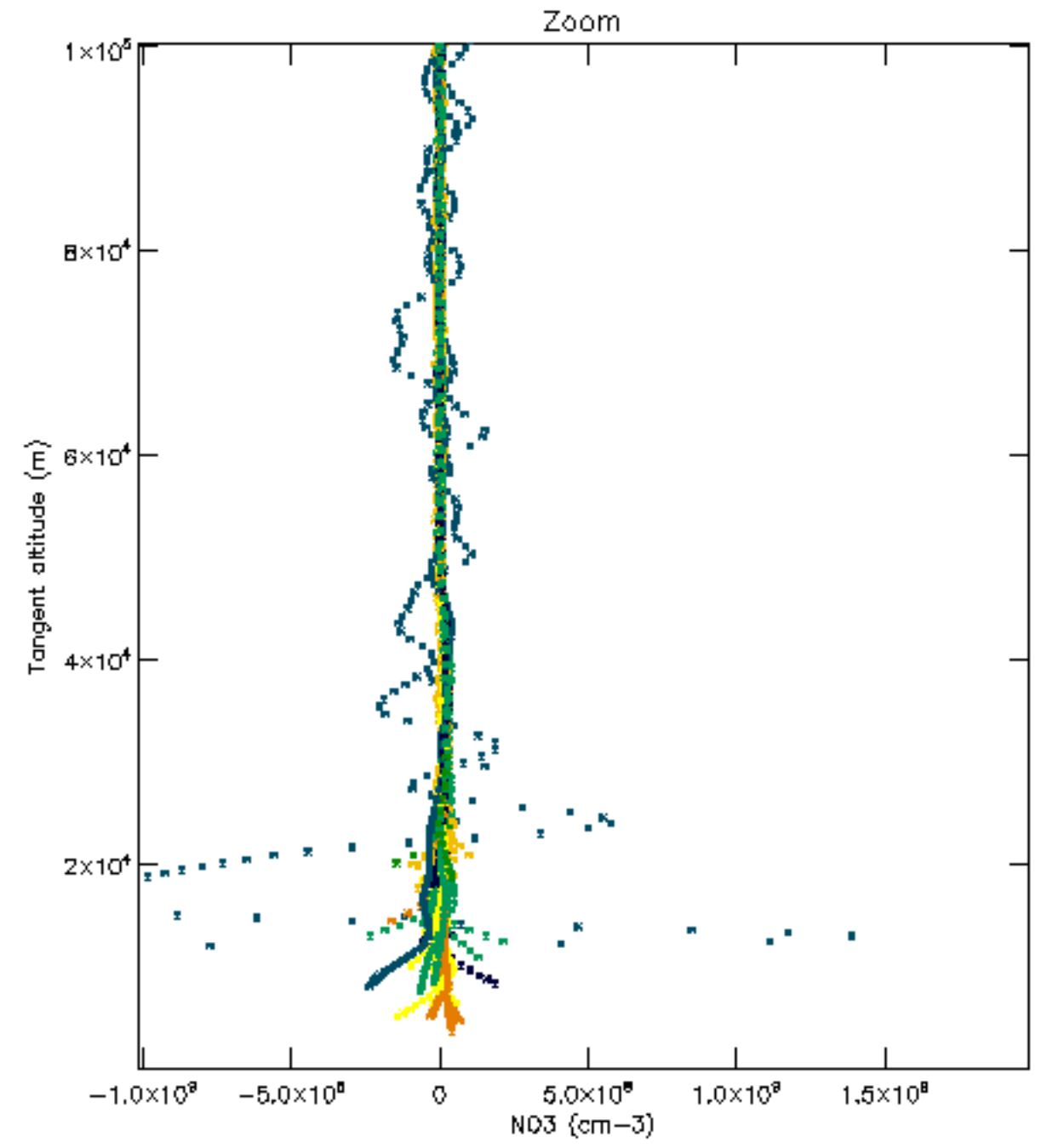
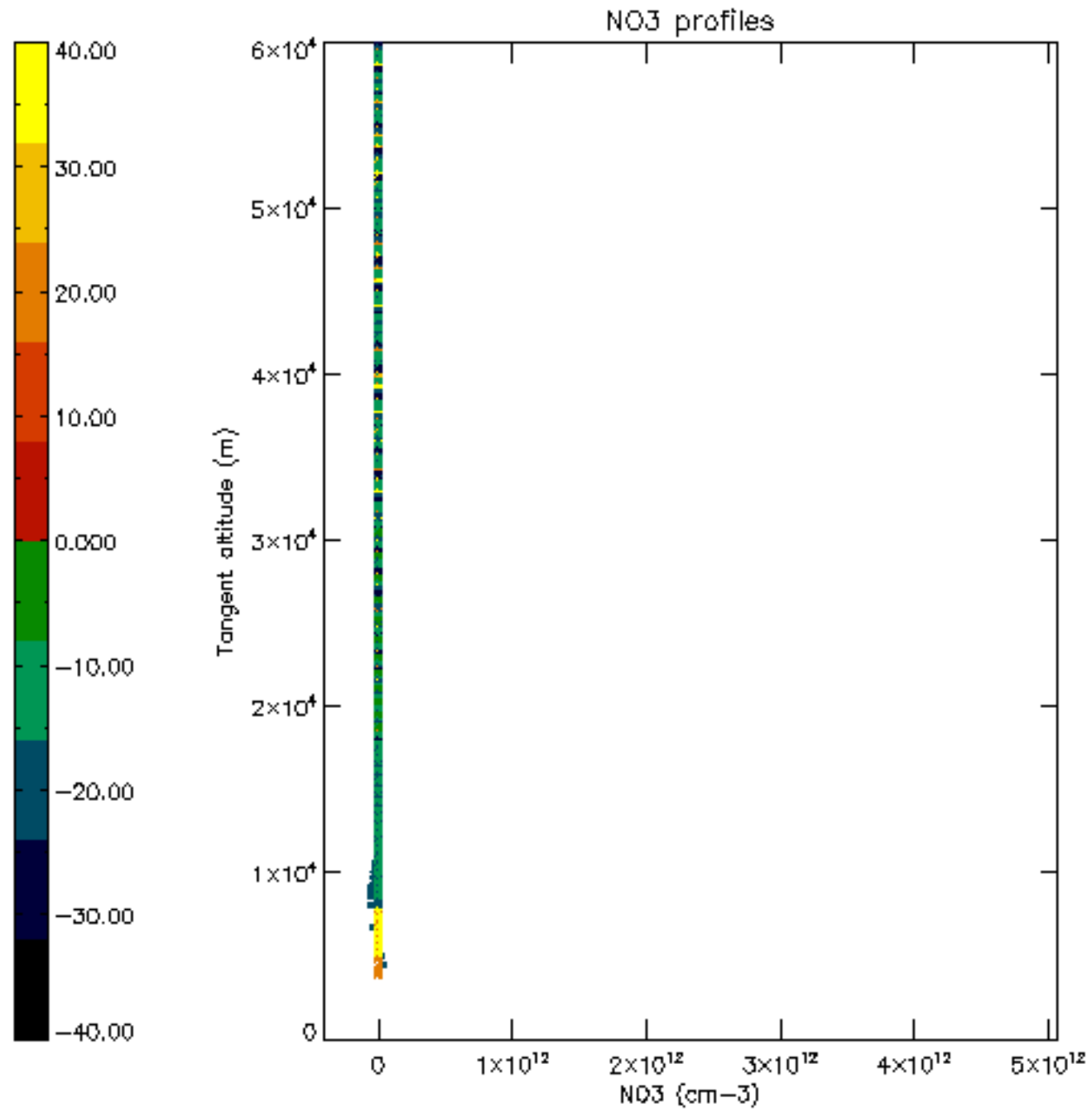


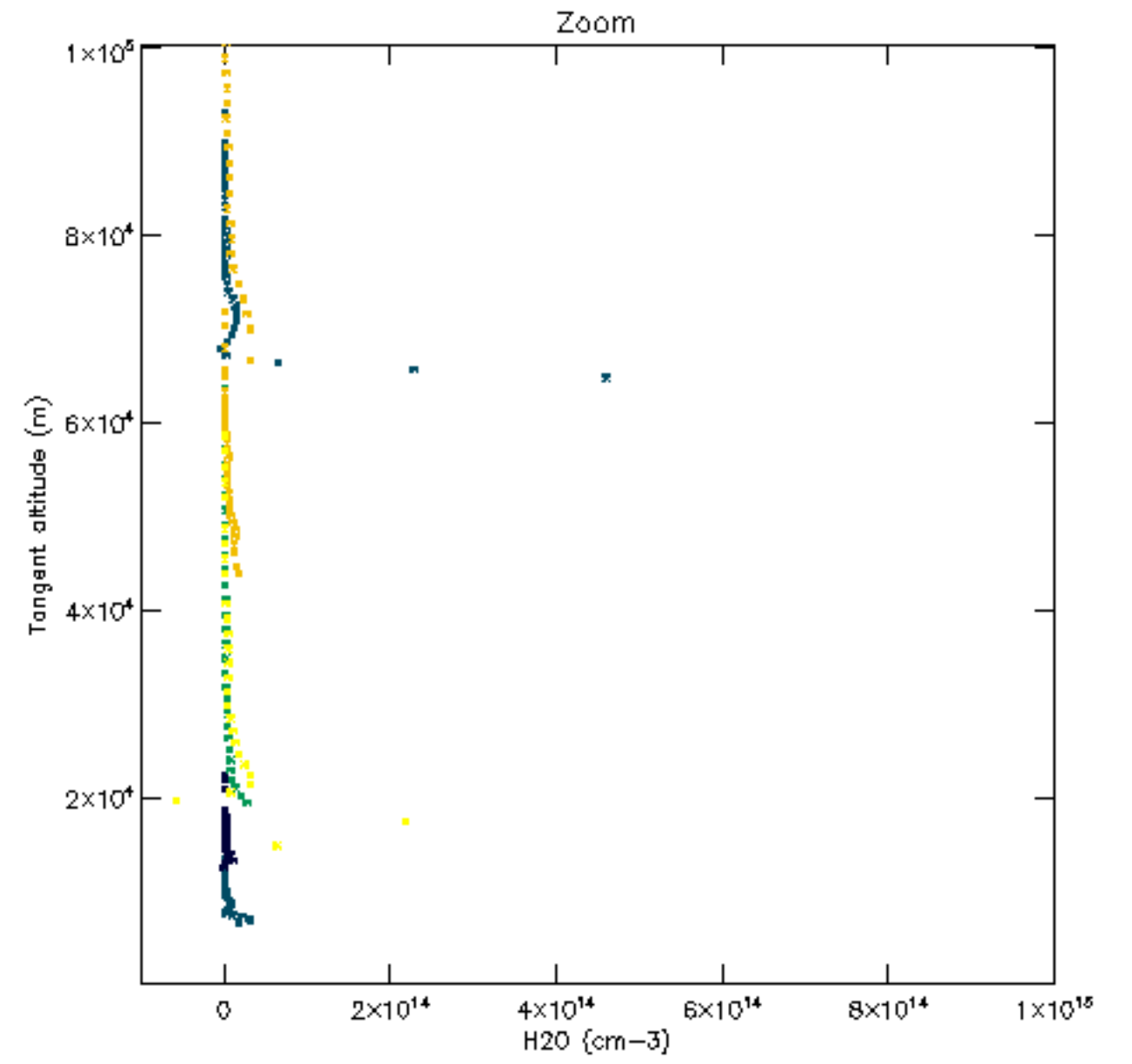
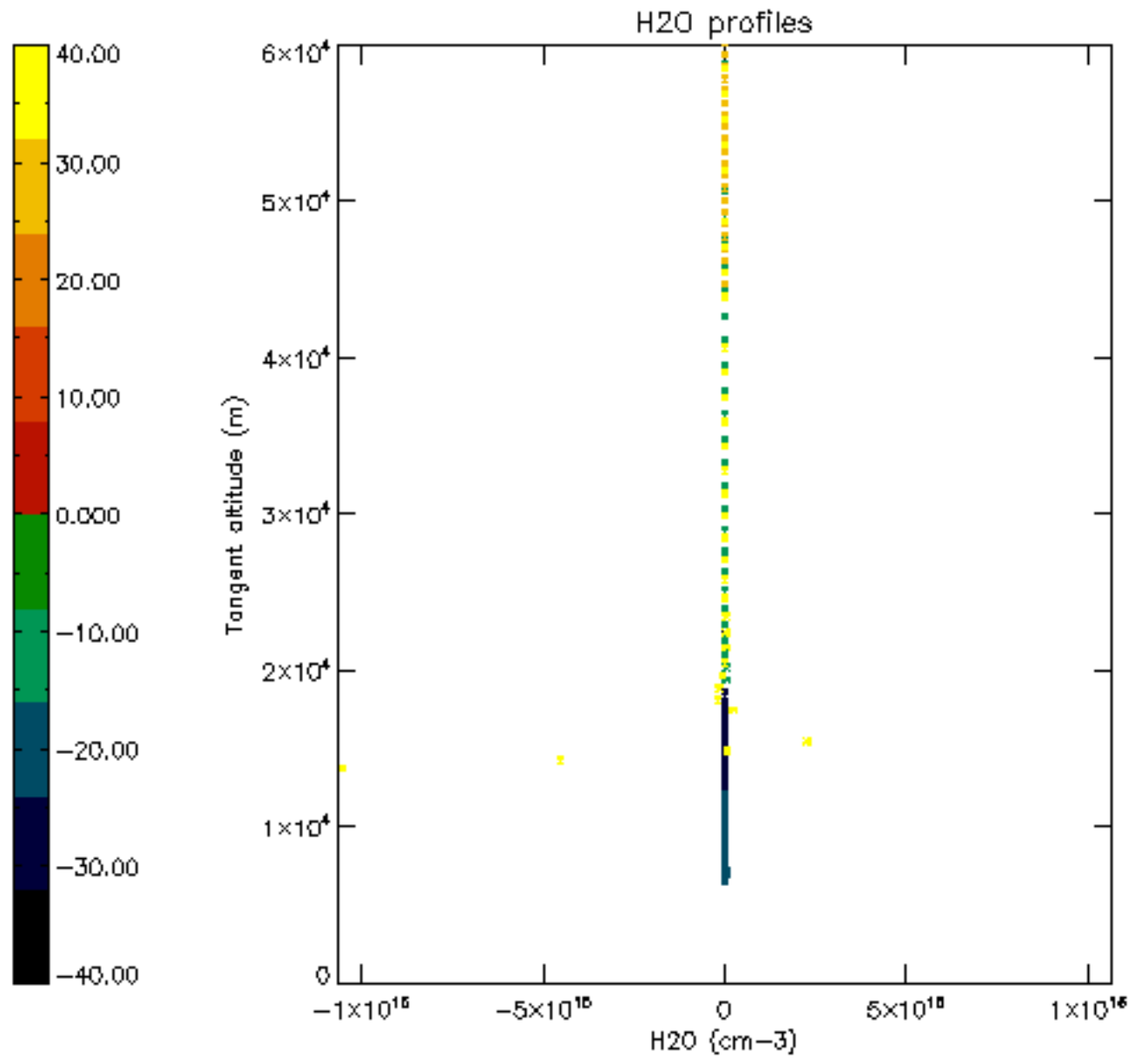


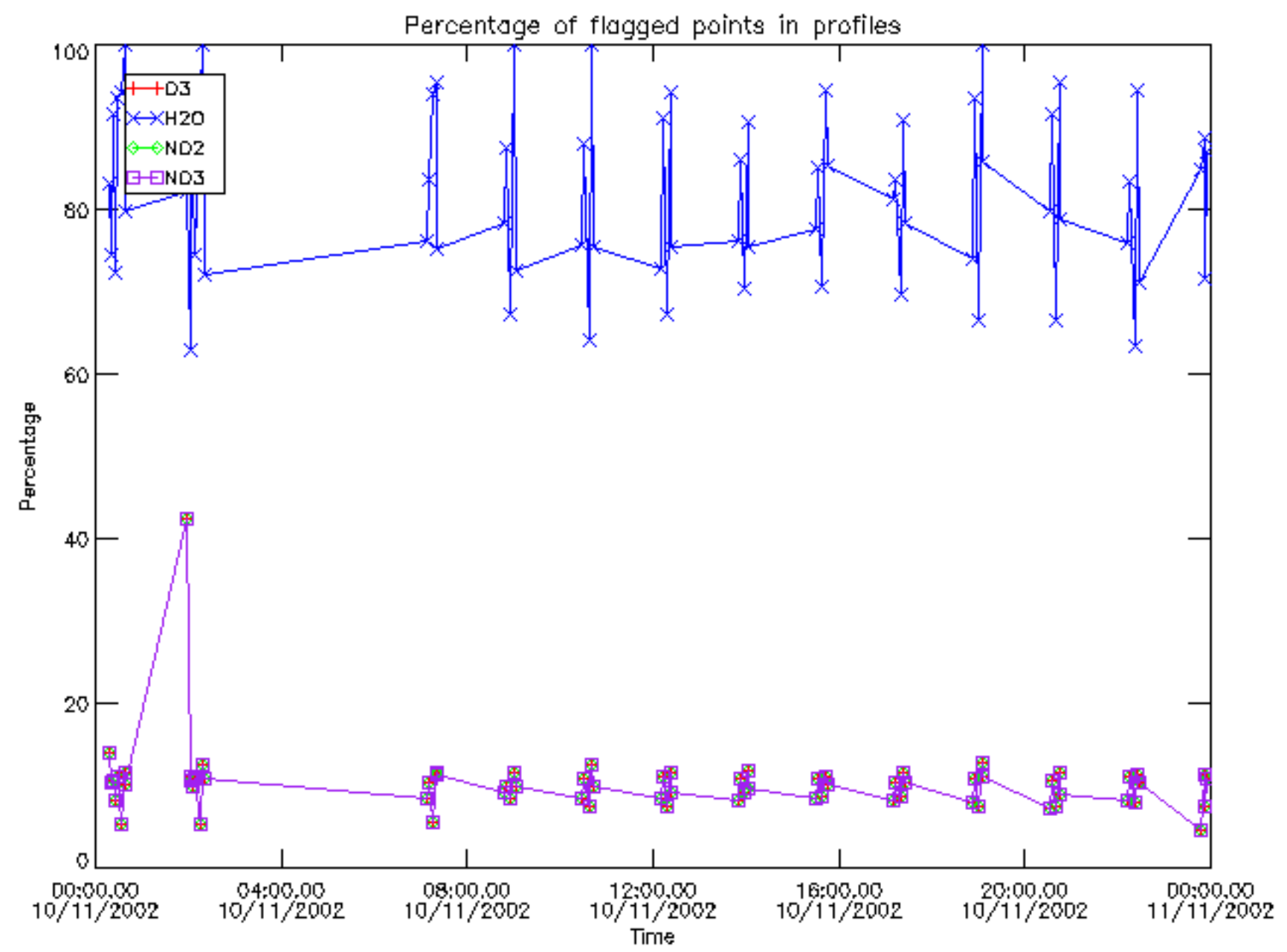




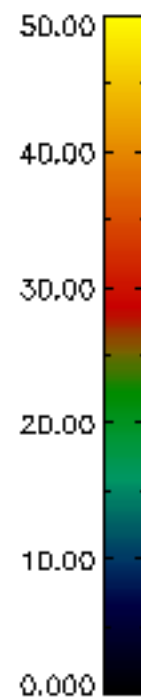
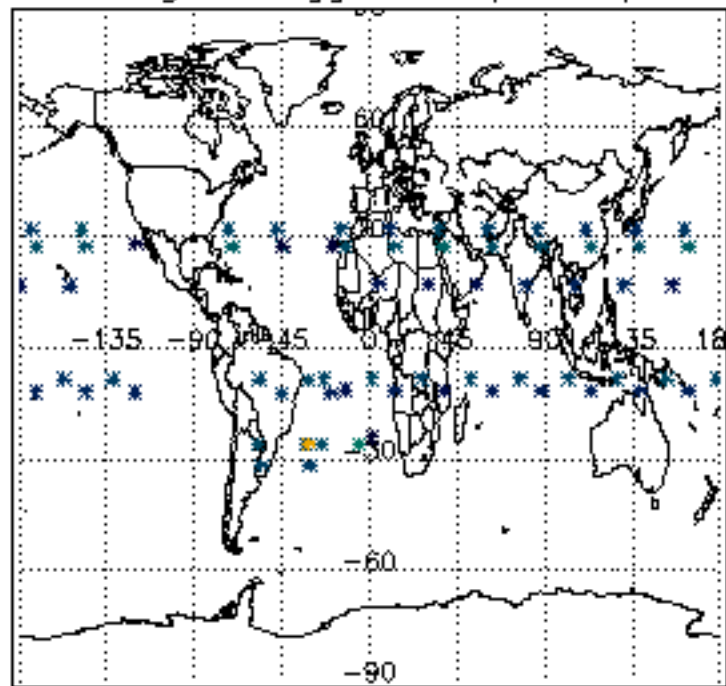




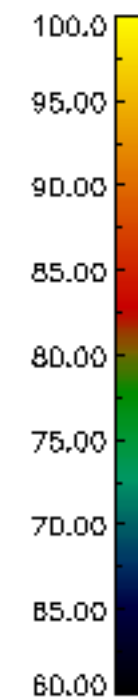
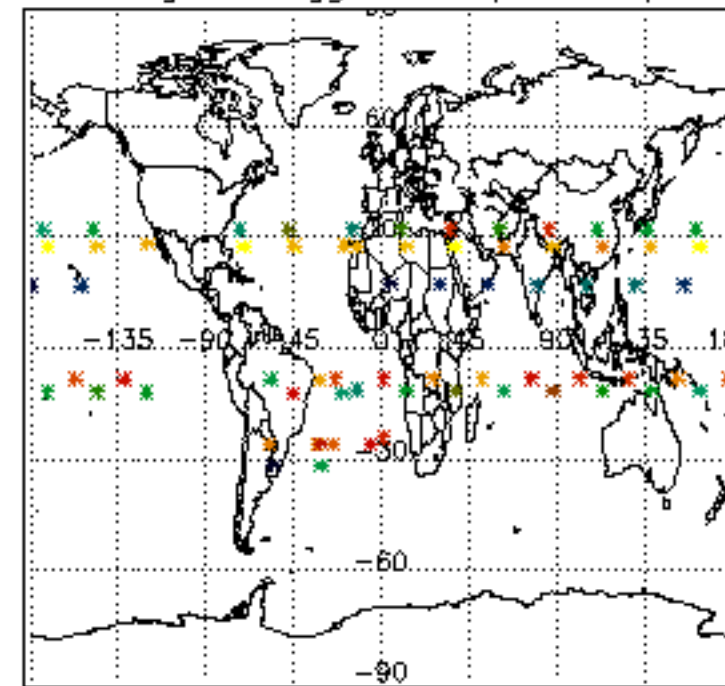




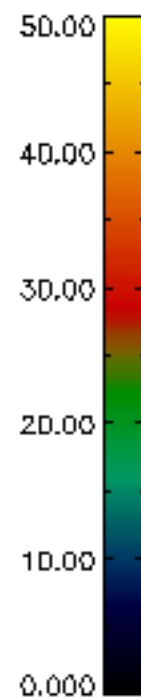
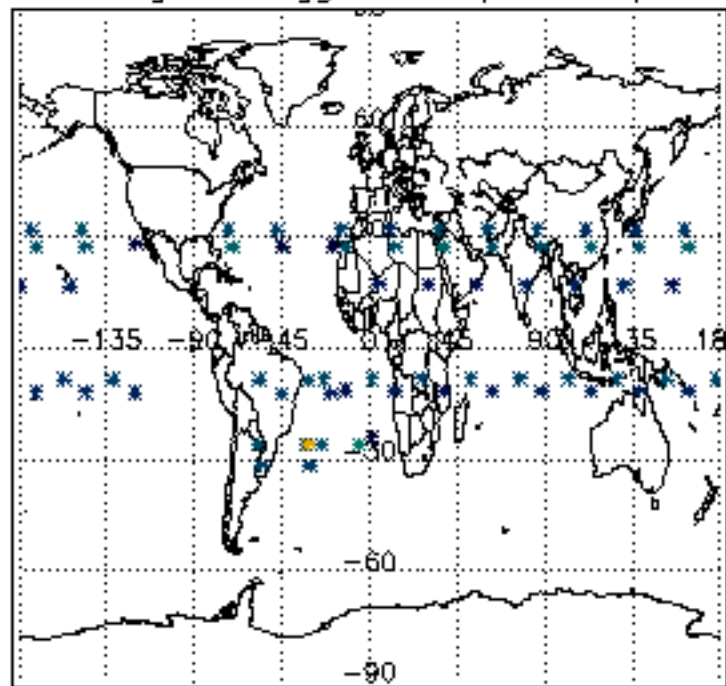
Percentage of flagged data per D3 profile



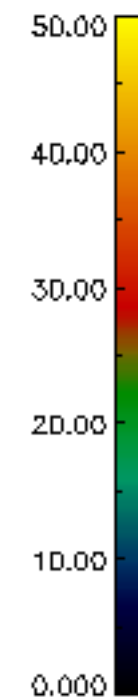
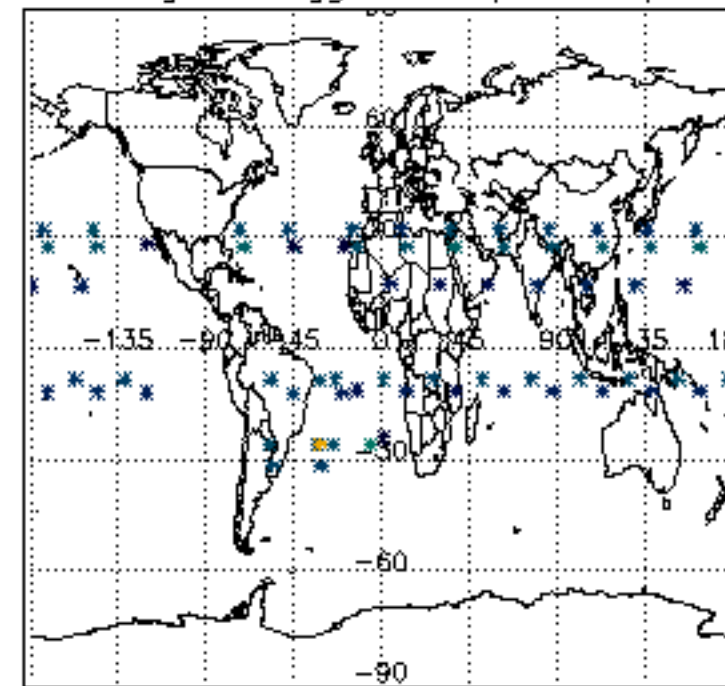
Percentage of flagged data per H2O profile

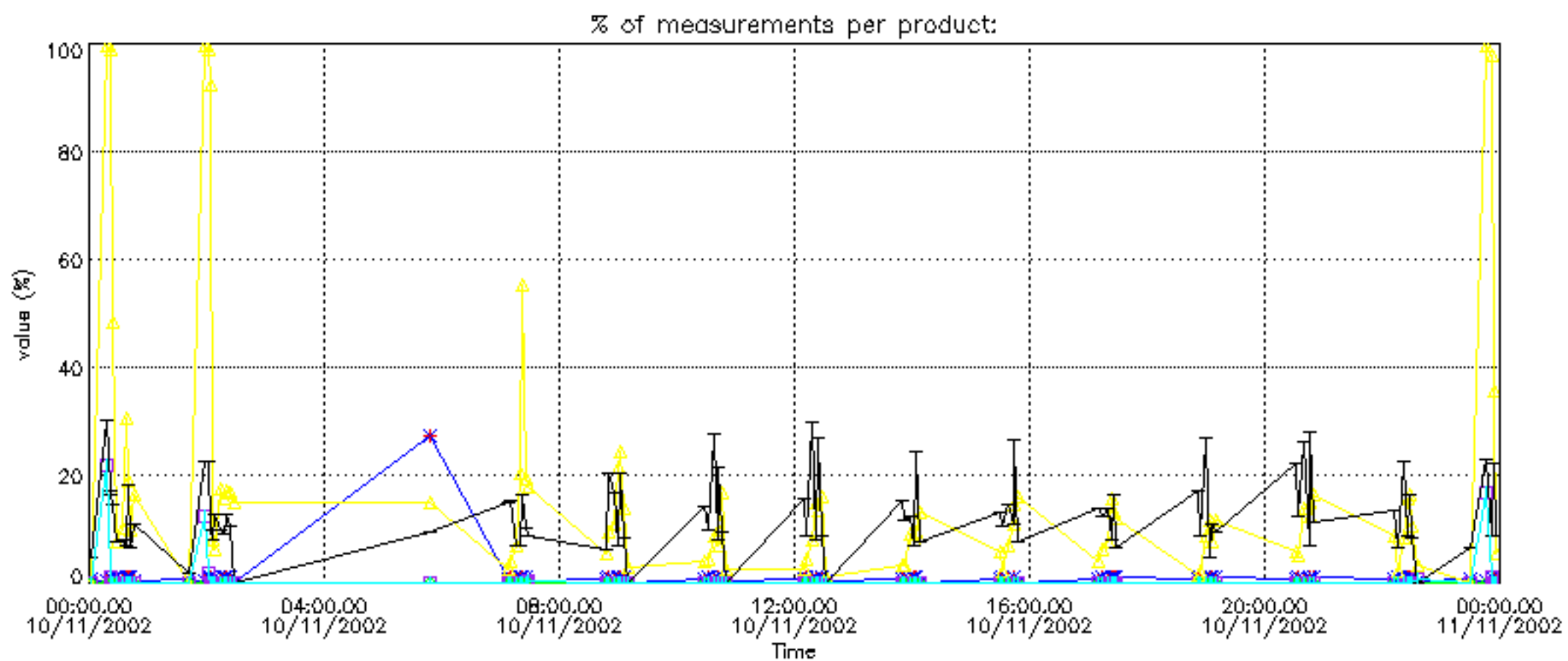


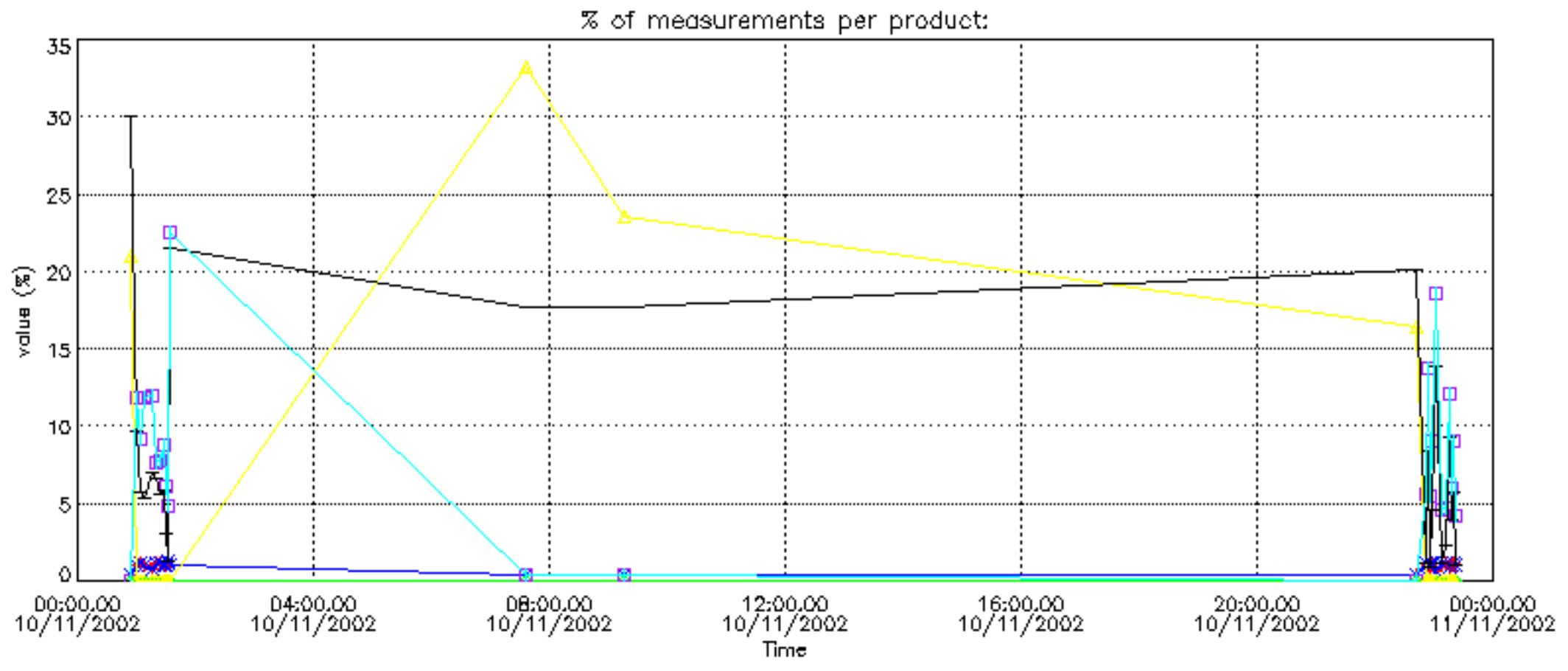
Percentage of flagged data per NO2 profile



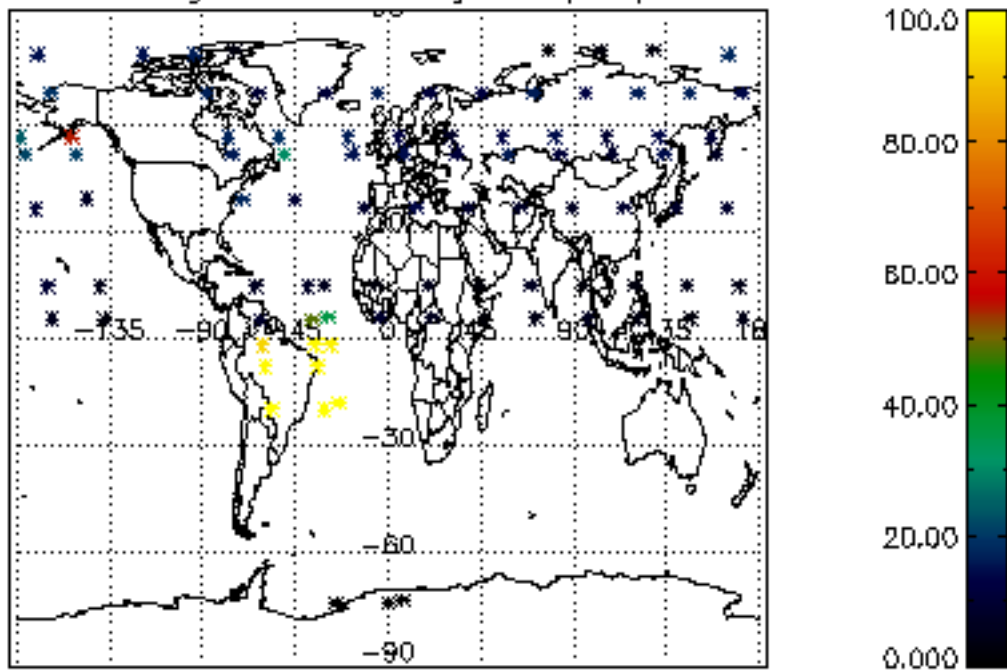
Percentage of flagged data per NO3 profile



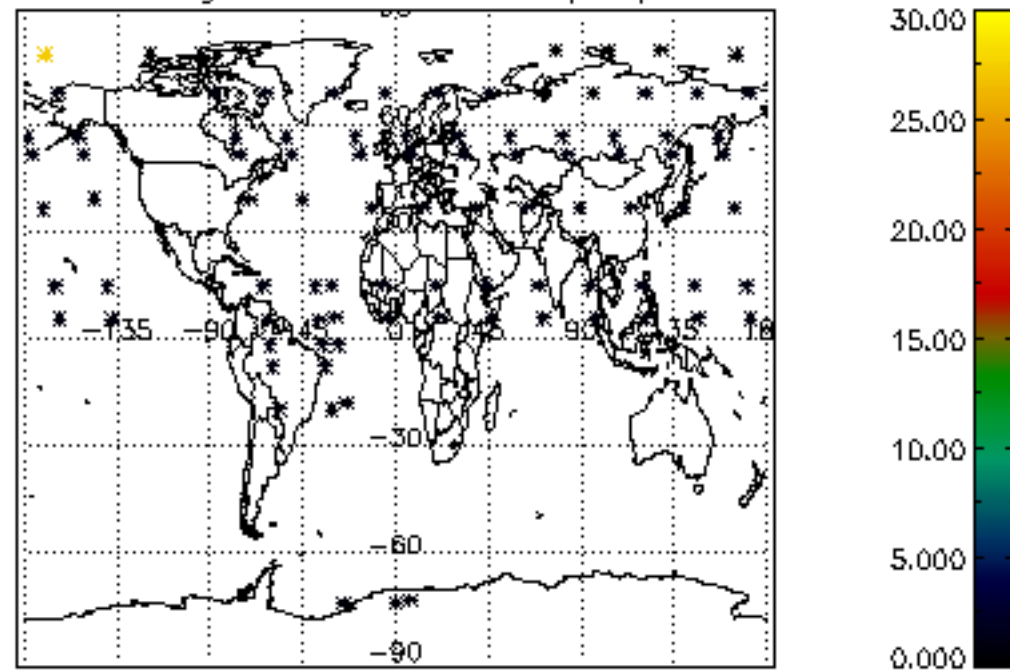




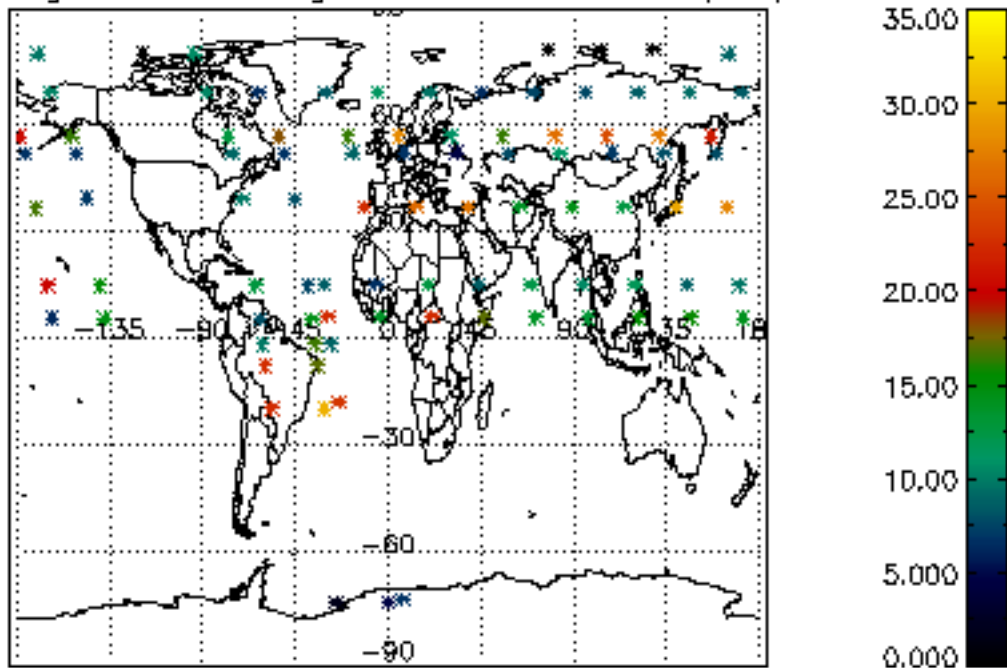
Percentage of cosmic ray hits per profile



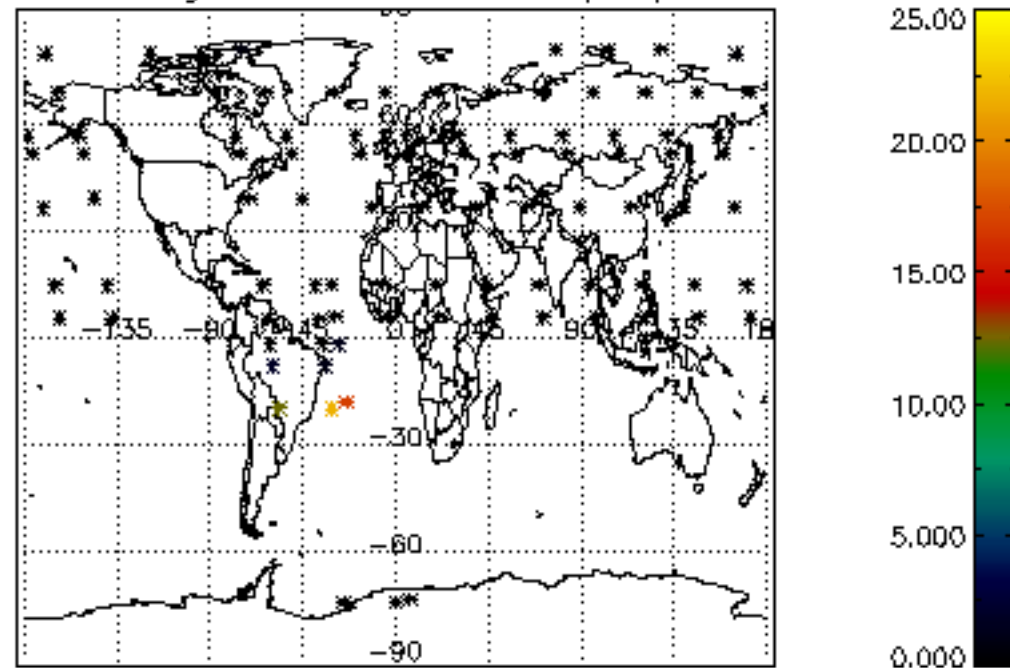
Percentage of datation errors per profile



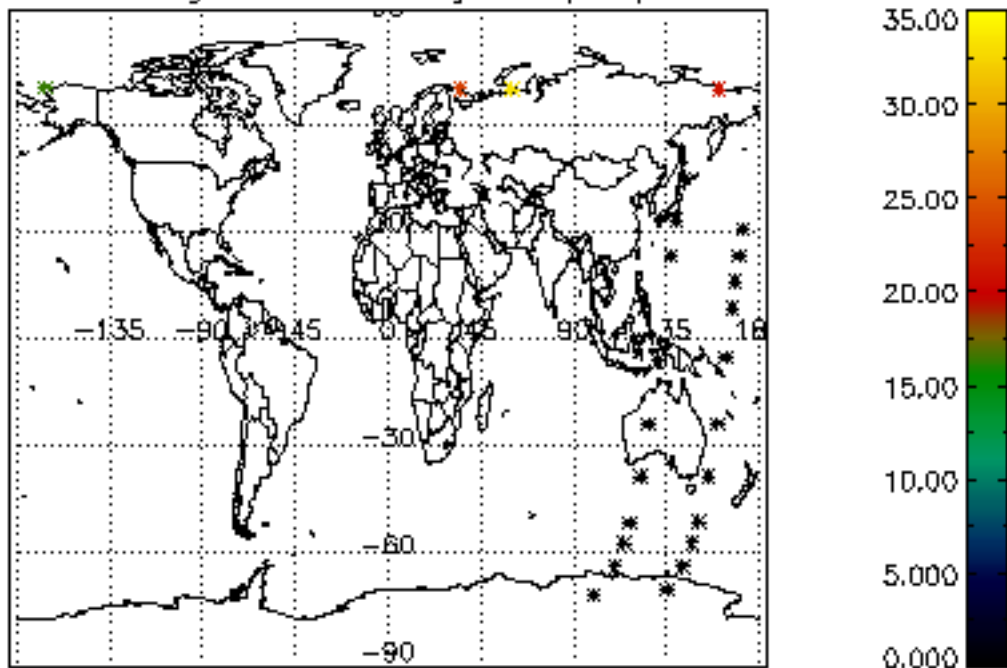
Percentage of star falling outside central band per profile



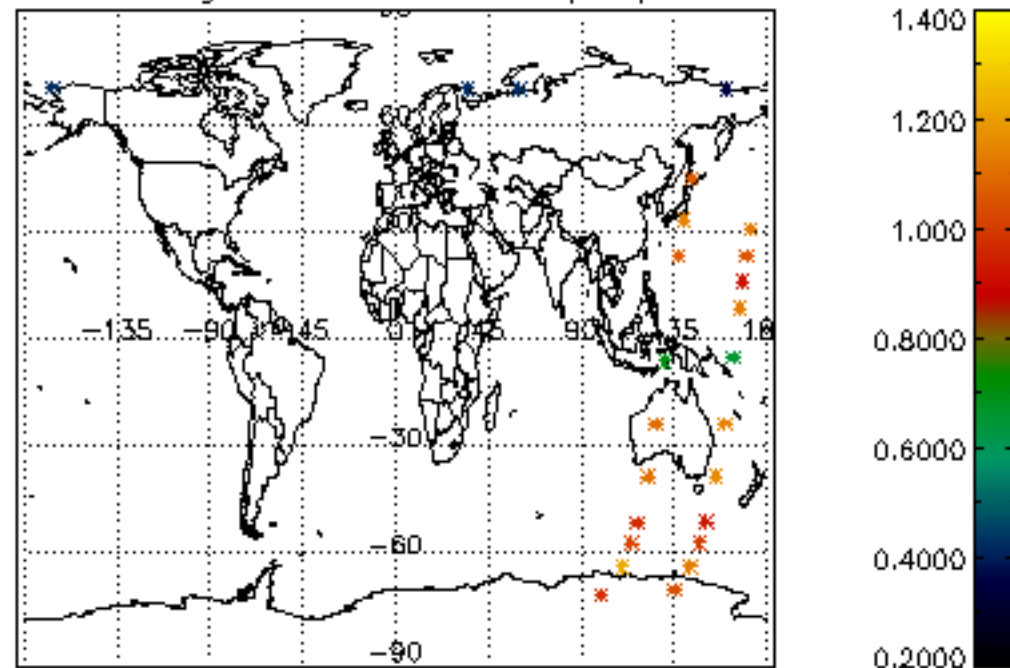
Percentage of saturation errors per profile



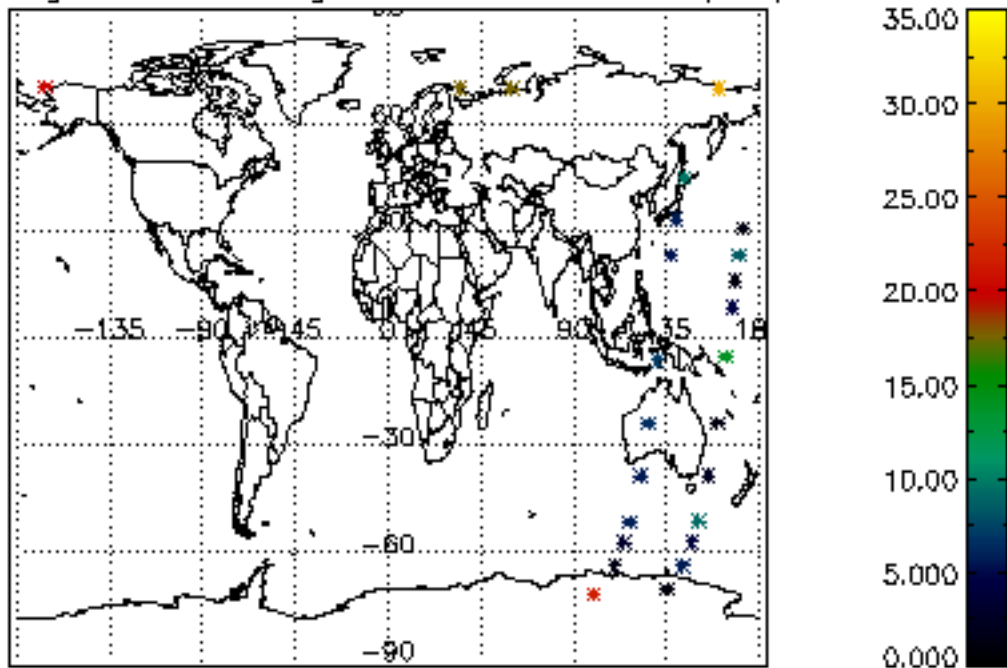
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

