

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 03:15:01
Data source version	GOMOS/6.01
Start time of products	13-08-2006 (13AUG2006 00:00:00)
Stop time of products	14-08-2006 (14AUG2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	87
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

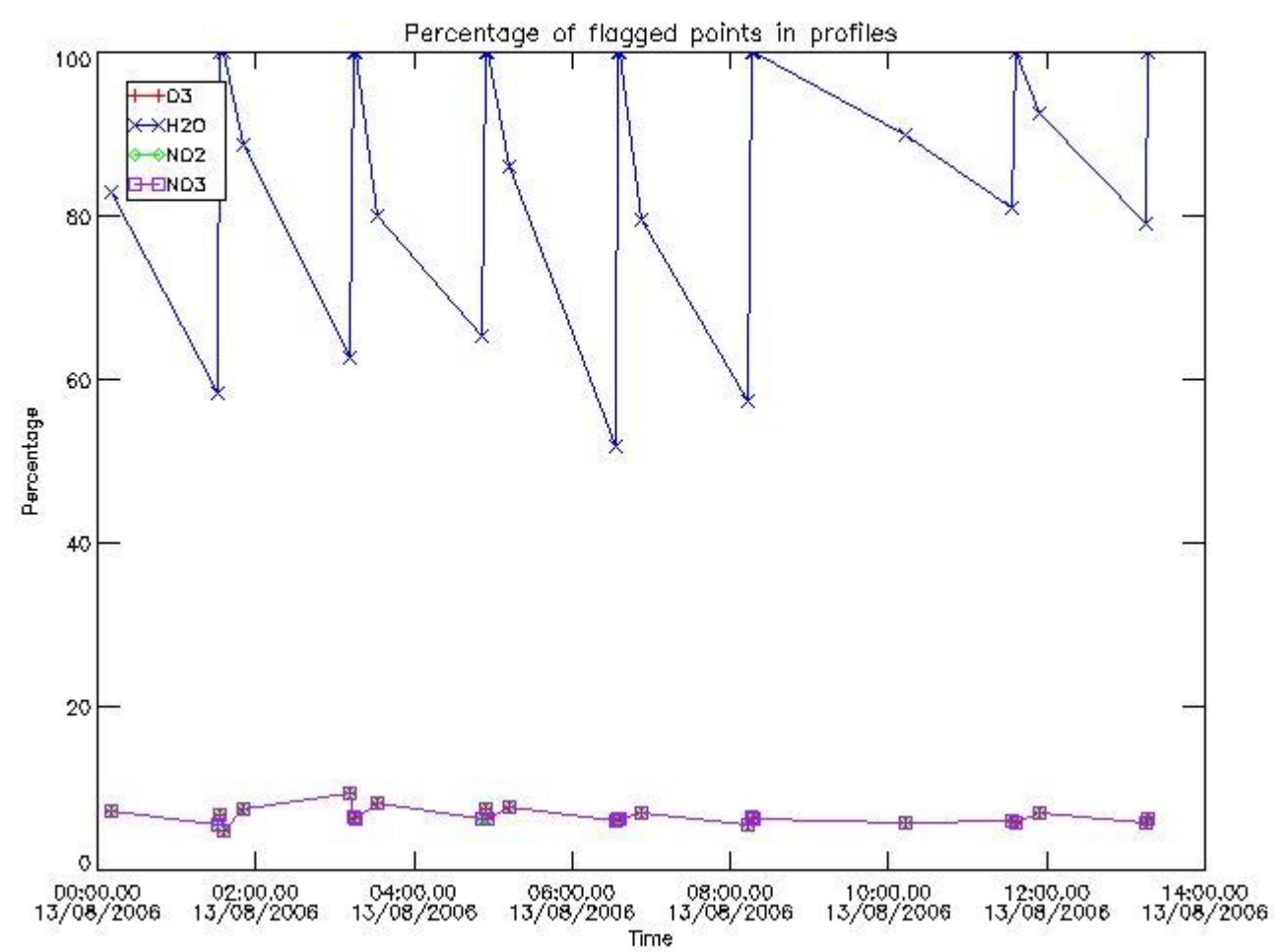
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20060813_001025_000000502050_00174_23274_1790.N1	13-AUG-2006 00:10:25	Dark	50.000	9	Alp Eri	0.45300	24000.	100	23274	No
2	GOM_NL__2PRFIN20060813_001627_000000422050_00174_23274_1791.N1	13-AUG-2006 00:16:27	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	23274	No
3	GOM_NL__2PRFIN20060813_001958_000000412050_00174_23274_1792.N1	13-AUG-2006 00:19:58	Straylight	41.000	31	Alp Gru	1.7340	15200.	82	23274	No
4	GOM_NL__2PRFIN20060813_002259_000000362050_00174_23274_1793.N1	13-AUG-2006 00:22:59	Straylight	36.000	172	Gam Gru	3.0030	13100.	72	23274	No
5	GOM_NL__2PRFIN20060813_003742_000000302050_00174_23274_1794.N1	13-AUG-2006 00:37:42	Bright	30.000	11	53Alp Aql	0.76500	8000.0	60	23274	No
6	GOM_NL__2PRFIN20060813_004646_000000342050_00174_23274_1795.N1	13-AUG-2006 00:46:46	Bright	33.500	66	37Gam Cyg	2.2080	5900.0	67	23274	No
7	GOM_NL__2PRFIN20060813_004757_000000282050_00174_23274_1796.N1	13-AUG-2006 00:47:57	Bright	27.500	144	18Del Cyg	2.8600	11000.	55	23274	No
8	GOM_NL__2PRFIN20060813_010040_000000302050_00174_23274_1797.N1	13-AUG-2006 01:00:40	Bright	30.000	49	1Alp UMi	1.9900	6300.0	60	23274	No
9	GOM_NL__2PRFIN20060813_012018_000000452050_00174_23274_1798.N1	13-AUG-2006 01:20:18	Bright	44.500	151	13Mu Gem	2.8900	3000.0	89	23274	No
10	GOM_NL__2PRFIN20060813_012152_000000342050_00174_23274_1799.N1	13-AUG-2006 01:21:52	Twilight	34.000	44	24Gam Gem	1.9280	11000.	68	23274	No
11	GOM_NL__2PRFIN20060813_013057_000000372050_00174_23274_1800.N1	13-AUG-2006 01:30:57	Dark	36.500	1	9Alp CMa	-1.4400	11000.	73	23274	No
12	GOM_NL__2PRFIN20060813_013307_000000392050_00174_23274_1801.N1	13-AUG-2006 01:33:07	Dark	38.500	101	11Alp Lep	2.5820	7000.0	77	23274	No
13	GOM_NL__2PRFIN20060813_013501_000000332050_00174_23274_1802.N1	13-AUG-2006 01:35:01	Dark	33.000	177	1Zet CMa	3.0220	26000.	66	23274	No
14	GOM_NL__2PRFIN20060813_015102_000000412050_00175_23275_1792.N1	13-AUG-2006 01:51:02	Dark	40.500	9	Alp Eri	0.45300	24000.	81	23275	No
15	GOM_NL__2PRFIN20060813_015703_000000322050_00175_23275_1793.N1	13-AUG-2006 01:57:03	Straylight	31.500	148	Alp Tuc	2.8780	4100.0	63	23275	No
16	GOM_NL__2PRFIN20060813_020035_000000372050_00175_23275_1794.N1	13-AUG-2006 02:00:35	Straylight	36.500	31	Alp Gru	1.7340	15200.	73	23275	No
17	GOM_NL__2PRFIN20060813_020335_000000352050_00175_23275_1795.N1	13-AUG-2006 02:03:35	Straylight	35.000	172	Gam Gru	3.0030	13100.	70	23275	No
18	GOM_NL__2PRFIN20060813_021818_000000302050_00175_23275_1796.N1	13-AUG-2006 02:18:18	Bright	30.000	11	53Alp Aql	0.76500	8000.0	60	23275	No
19	GOM_NL__2PRFIN20060813_022722_000000332050_00175_23275_1797.N1	13-AUG-2006 02:27:22	Bright	32.500	66	37Gam Cyg	2.2080	5900.0	65	23275	No
20	GOM_NL__2PRFIN20060813_022833_000000302050_00175_23275_1798.N1	13-AUG-2006 02:28:33	Bright	29.500	144	18Del Cyg	2.8600	11000.	59	23275	No
21	GOM_NL__2PRFIN20060813_024116_000000282050_00175_23275_1799.N1	13-AUG-2006 02:41:16	Bright	28.000	49	1Alp UMi	1.9900	6300.0	56	23275	No
22	GOM_NL__2PRFIN20060813_030054_000000342050_00175_23275_1800.N1	13-AUG-2006 03:00:54	Bright	34.000	151	13Mu Gem	2.8900	3000.0	68	23275	No
23	GOM_NL__2PRFIN20060813_030228_000000322050_00175_23275_1801.N1	13-AUG-2006 03:02:28	Twilight	32.000	44	24Gam Gem	1.9280	11000.	64	23275	No
24	GOM_NL__2PRFIN20060813_031133_000000382050_00175_23275_1802.N1	13-AUG-2006 03:11:33	Dark	38.000	1	9Alp CMa	-1.4400	11000.	76	23275	No
25	GOM_NL__2PRFIN20060813_031343_000000402050_00175_23275_1803.N1	13-AUG-2006 03:13:43	Dark	39.500	101	11Alp Lep	2.5820	7000.0	79	23275	No
26	GOM_NL__2PRFIN20060813_031537_000000332050_00175_23275_1804.N1	13-AUG-2006 03:15:37	Dark	33.000	177	1Zet CMa	3.0220	26000.	66	23275	No
27	GOM_NL__2PRFIN20060813_033139_000000382050_00176_23276_1794.N1	13-AUG-2006 03:31:39	Dark	38.000	9	Alp Eri	0.45300	24000.	76	23276	No
28	GOM_NL__2PRFIN20060813_033739_000000352050_00176_23276_1795.N1	13-AUG-2006 03:37:39	Straylight	34.500	148	Alp Tuc	2.8780	4100.0	69	23276	No
29	GOM_NL__2PRFIN20060813_034111_000000362050_00176_23276_1796.N1	13-AUG-2006 03:41:11	Straylight	36.000	31	Alp Gru	1.7340	15200.	72	23276	No
30	GOM_NL__2PRFIN20060813_034412_000000352050_00176_23276_1797.N1	13-AUG-2006 03:44:12	Straylight	35.000	172	Gam Gru	3.0030	13100.	70	23276	No
31	GOM_NL__2PRFIN20060813_035854_000000312050_00176_23276_1798.N1	13-AUG-2006 03:58:54	Bright	30.500	11	53Alp Aql	0.76500	8000.0	61	23276	No
32	GOM_NL__2PRFIN20060813_040758_000000342050_00176_23276_1799.N1	13-AUG-2006 04:07:58	Bright	33.500	66	37Gam Cyg	2.2080	5900.0	67	23276	No
33	GOM_NL__2PRFIN20060813_040909_000000292050_00176_23276_1800.N1	13-AUG-2006 04:09:09	Bright	29.000	144	18Del Cyg	2.8600	11000.	58	23276	No
34	GOM_NL__2PRFIN20060813_042152_000000302050_00176_23276_1801.N1	13-AUG-2006 04:21:52	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	23276	No
35	GOM_NL__2PRFIN20060813_044130_000000392050_00176_23276_1802.N1	13-AUG-2006 04:41:30	Bright	38.500	151	13Mu Gem	2.8900	3000.0	77	23276	No
36	GOM_NL__2PRFIN20060813_044304_000000342050_00176_23276_1803.N1	13-AUG-2006 04:43:04	Twilight	34.000	44	24Gam Gem	1.9280	11000.	68	23276	No
37	GOM_NL__2PRFIN20060813_045209_000000342050_00176_23276_1804.N1	13-AUG-2006 04:52:09	Dark	33.500	1	9Alp CMa	-1.4400	11000.	67	23276	No
38	GOM_NL__2PRFIN20060813_045420_000000412050_00176_23276_1805.N1	13-AUG-2006 04:54:20	Dark	40.500	101	11Alp Lep	2.5820	7000.0	81	23276	No
39	GOM_NL__2PRFIN20060813_045613_000000332050_00176_23276_1806.N1	13-AUG-2006 04:56:13	Dark	33.000	177	1Zet CMa	3.0220	26000.	66	23276	No
40	GOM_NL__2PRFIN20060813_051215_000000402050_00177_23277_1796.N1	13-AUG-2006 05:12:15	Dark	39.500	9	Alp Eri	0.45300	24000.	79	23277	No
41	GOM_NL__2PRFIN20060813_051815_000000362050_00177_23277_1797.N1	13-AUG-2006 05:18:15	Straylight	35.500	148	Alp Tuc	2.8780	4100.0	71	23277	No
42	GOM_NL__2PRFIN20060813_052148_000000352050_00177_23277_1798.N1	13-AUG-2006 05:21:48	Straylight	34.500	31	Alp Gru	1.7340	15200.	69	23277	No

43	GOM_NL__2PRFIN20060813_052448_000000362050_00177_23277_1799.N1	13-AUG-2006 05:24:48	Straylight	35.500	172	Gam Gru	3.0030	13100.	71	23277	No
44	GOM_NL__2PRFIN20060813_053930_000000302050_00177_23277_1800.N1	13-AUG-2006 05:39:30	Bright	30.000	11	53Alp Aql	0.76500	8000.0	60	23277	No
45	GOM_NL__2PRFIN20060813_054834_000000322050_00177_23277_1801.N1	13-AUG-2006 05:48:34	Bright	31.500	66	37Gam Cyg	2.2080	5900.0	63	23277	No
46	GOM_NL__2PRFIN20060813_054945_000000302050_00177_23277_1802.N1	13-AUG-2006 05:49:45	Bright	29.500	144	18Del Cyg	2.8600	11000.	59	23277	No
47	GOM_NL__2PRFIN20060813_060228_000000292050_00177_23277_1803.N1	13-AUG-2006 06:02:28	Bright	28.500	49	1Alp UMi	1.9900	6300.0	57	23277	No
48	GOM_NL__2PRFIN20060813_062206_000000412050_00177_23277_1804.N1	13-AUG-2006 06:22:06	Bright	40.500	151	13Mu Gem	2.8900	3000.0	81	23277	No
49	GOM_NL__2PRFIN20060813_062340_000000402050_00177_23277_1805.N1	13-AUG-2006 06:23:40	Tw_i_and_stray	39.500	44	24Gam Gem	1.9280	11000.	79	23277	No
50	GOM_NL__2PRFIN20060813_063245_000000432050_00177_23277_1806.N1	13-AUG-2006 06:32:45	Dark	43.000	1	9Alp CMa	-1.4400	11000.	86	23277	No
51	GOM_NL__2PRFIN20060813_063457_000000412050_00177_23277_1807.N1	13-AUG-2006 06:34:57	Dark	40.500	101	11Alp Lep	2.5820	7000.0	81	23277	No
52	GOM_NL__2PRFIN20060813_063649_000000342050_00177_23277_1808.N1	13-AUG-2006 06:36:49	Dark	33.500	177	1Zet CMa	3.0220	26000.	67	23277	No
53	GOM_NL__2PRFIN20060813_065252_000000372050_00178_23278_0683.N1	13-AUG-2006 06:52:52	Dark	37.000	9	Alp Eri	0.45300	24000.	74	23278	No
54	GOM_NL__2PRFIN20060813_065852_000000352050_00178_23278_0684.N1	13-AUG-2006 06:58:52	Straylight	34.500	148	Alp Tuc	2.8780	4100.0	69	23278	No
55	GOM_NL__2PRFIN20060813_070224_000000452050_00178_23278_0685.N1	13-AUG-2006 07:02:24	Straylight	45.000	31	Alp Gru	1.7340	15200.	90	23278	No
56	GOM_NL__2PRFIN20060813_070524_000000342050_00178_23278_0686.N1	13-AUG-2006 07:05:24	Straylight	33.500	172	Gam Gru	3.0030	13100.	67	23278	No
57	GOM_NL__2PRFIN20060813_072006_000000312050_00178_23278_0687.N1	13-AUG-2006 07:20:06	Bright	30.500	11	53Alp Aql	0.76500	8000.0	61	23278	No
58	GOM_NL__2PRFIN20060813_072909_000000322050_00178_23278_0688.N1	13-AUG-2006 07:29:09	Bright	31.500	66	37Gam Cyg	2.2080	5900.0	63	23278	No
59	GOM_NL__2PRFIN20060813_073020_000000302050_00178_23278_0689.N1	13-AUG-2006 07:30:20	Bright	29.500	144	18Del Cyg	2.8600	11000.	59	23278	No
60	GOM_NL__2PRFIN20060813_074304_000000302050_00178_23278_0690.N1	13-AUG-2006 07:43:04	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	23278	No
61	GOM_NL__2PRFIN20060813_080242_000000402050_00178_23278_0691.N1	13-AUG-2006 08:02:42	Bright	40.000	151	13Mu Gem	2.8900	3000.0	80	23278	No
62	GOM_NL__2PRFIN20060813_080416_000000372050_00178_23278_0692.N1	13-AUG-2006 08:04:16	Tw_i_and_stray	36.500	44	24Gam Gem	1.9280	11000.	73	23278	No
63	GOM_NL__2PRFIN20060813_081322_000000382050_00178_23278_0693.N1	13-AUG-2006 08:13:22	Dark	38.000	1	9Alp CMa	-1.4400	11000.	76	23278	No
64	GOM_NL__2PRFIN20060813_081533_000000392050_00178_23278_0694.N1	13-AUG-2006 08:15:33	Dark	39.000	101	11Alp Lep	2.5820	7000.0	78	23278	No
65	GOM_NL__2PRFIN20060813_081726_000000332050_00178_23278_0695.N1	13-AUG-2006 08:17:26	Dark	33.000	177	1Zet CMa	3.0220	26000.	66	23278	No
66	GOM_NL__2PRFIN20060813_101314_000000902050_00180_23280_0683.N1	13-AUG-2006 10:13:14	Dark	89.500	9	Alp Eri	0.45300	24000.	179	23280	No
67	GOM_NL__2PRFIN20060813_101917_000000832050_00180_23280_0684.N1	13-AUG-2006 10:19:17	Straylight	82.500	148	Alp Tuc	2.8780	4100.0	165	23280	No
68	GOM_NL__2PRFIN20060813_102247_000000882050_00180_23280_0685.N1	13-AUG-2006 10:22:47	Straylight	87.500	31	Alp Gru	1.7340	15200.	175	23280	No
69	GOM_NL__2PRFIN20060813_102546_000000882050_00180_23280_0686.N1	13-AUG-2006 10:25:46	Straylight	87.500	172	Gam Gru	3.0030	13100.	175	23280	No
70	GOM_NL__2PRFIN20060813_104032_000000922050_00180_23280_0687.N1	13-AUG-2006 10:40:32	Bright	92.000	11	53Alp Aql	0.76500	8000.0	184	23280	No
71	GOM_NL__2PRFIN20060813_104933_000000802050_00180_23280_0688.N1	13-AUG-2006 10:49:33	Bright	80.000	66	37Gam Cyg	2.2080	5900.0	160	23280	No
72	GOM_NL__2PRFIN20060813_110329_000000772050_00180_23280_0689.N1	13-AUG-2006 11:03:29	Bright	77.000	49	1Alp UMi	1.9900	6300.0	154	23280	No
73	GOM_NL__2PRFIN20060813_112207_000000782050_00180_23280_0690.N1	13-AUG-2006 11:22:07	Bright	78.000	170	27Eps Gem	3.0000	9700.0	156	23280	No
74	GOM_NL__2PRFIN20060813_112442_000000812050_00180_23280_0691.N1	13-AUG-2006 11:24:42	Tw_i_and_stray	80.500	44	24Gam Gem	1.9280	11000.	161	23280	No
75	GOM_NL__2PRFIN20060813_113348_000000852050_00180_23280_0692.N1	13-AUG-2006 11:33:48	Dark	84.500	1	9Alp CMa	-1.4400	11000.	169	23280	No
76	GOM_NL__2PRFIN20060813_113556_000000892050_00180_23280_0693.N1	13-AUG-2006 11:35:56	Dark	88.500	101	11Alp Lep	2.5820	7000.0	177	23280	No
77	GOM_NL__2PRFIN20060813_115350_000000942050_00181_23281_0683.N1	13-AUG-2006 11:53:50	Dark	94.000	9	Alp Eri	0.45300	24000.	188	23281	No
78	GOM_NL__2PRFIN20060813_115953_000000822050_00181_23281_0684.N1	13-AUG-2006 11:59:53	Straylight	82.000	148	Alp Tuc	2.8780	4100.0	164	23281	No
79	GOM_NL__2PRFIN20060813_120323_000000852050_00181_23281_0685.N1	13-AUG-2006 12:03:23	Straylight	84.500	31	Alp Gru	1.7340	15200.	169	23281	No
80	GOM_NL__2PRFIN20060813_120622_000000852050_00181_23281_0686.N1	13-AUG-2006 12:06:22	Straylight	85.000	172	Gam Gru	3.0030	13100.	170	23281	No
81	GOM_NL__2PRFIN20060813_122108_000000792050_00181_23281_0687.N1	13-AUG-2006 12:21:08	Bright	78.500	11	53Alp Aql	0.76500	8000.0	157	23281	No
82	GOM_NL__2PRFIN20060813_123009_000000812050_00181_23281_0688.N1	13-AUG-2006 12:30:09	Bright	81.000	66	37Gam Cyg	2.2080	5900.0	162	23281	No
83	GOM_NL__2PRFIN20060813_124405_000000782050_00181_23281_0689.N1	13-AUG-2006 12:44:05	Bright	77.500	49	1Alp UMi	1.9900	6300.0	155	23281	No
84	GOM_NL__2PRFIN20060813_130243_000000942050_00181_23281_0690.N1	13-AUG-2006 13:02:43	Bright	94.000	170	27Eps Gem	3.0000	9700.0	188	23281	No
85	GOM_NL__2PRFIN20060813_130518_000000792050_00181_23281_0691.N1	13-AUG-2006 13:05:18	Tw_i_and_stray	79.000	44	24Gam Gem	1.9280	11000.	158	23281	No
86	GOM_NL__2PRFIN20060813_131424_000000892050_00181_23281_0692.N1	13-AUG-2006 13:14:24	Dark	88.500	1	9Alp CMa	-1.4400	11000.	177	23281	No
87	GOM_NL__2PRFIN20060813_131632_000000892050_00181_23281_0693.N1	13-AUG-2006 13:16:32	Dark	88.500	101	11Alp Lep	2.5820	7000.0	177	23281	No

3. Quality information per product

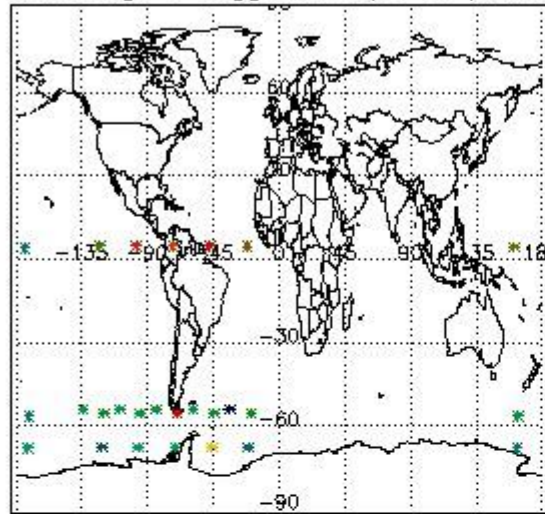
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

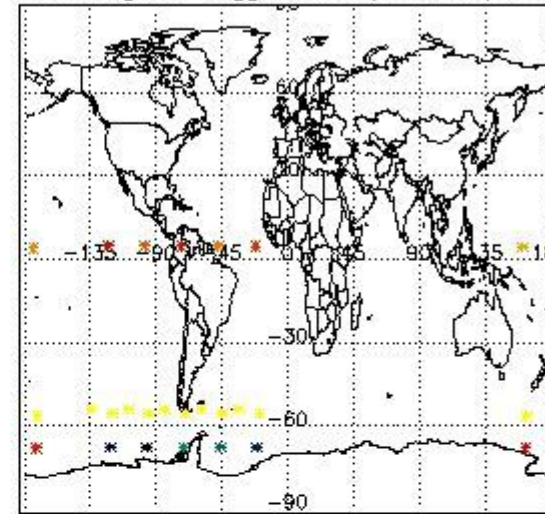


3.2 Plot quality information per product (world map)

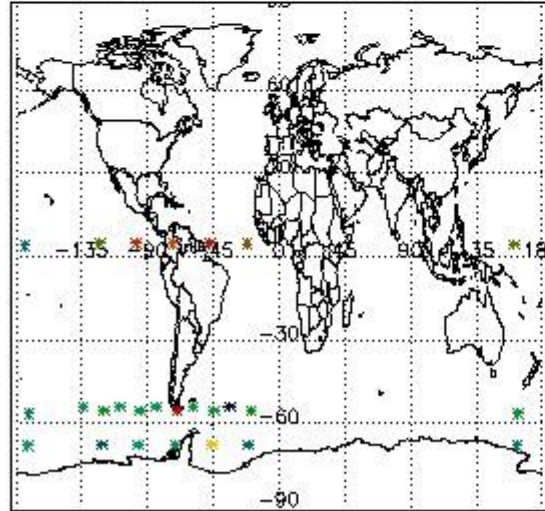
Percentage of flagged data per O3 profile



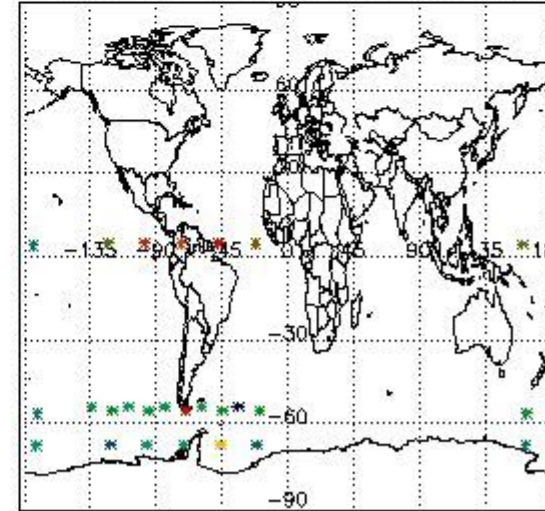
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

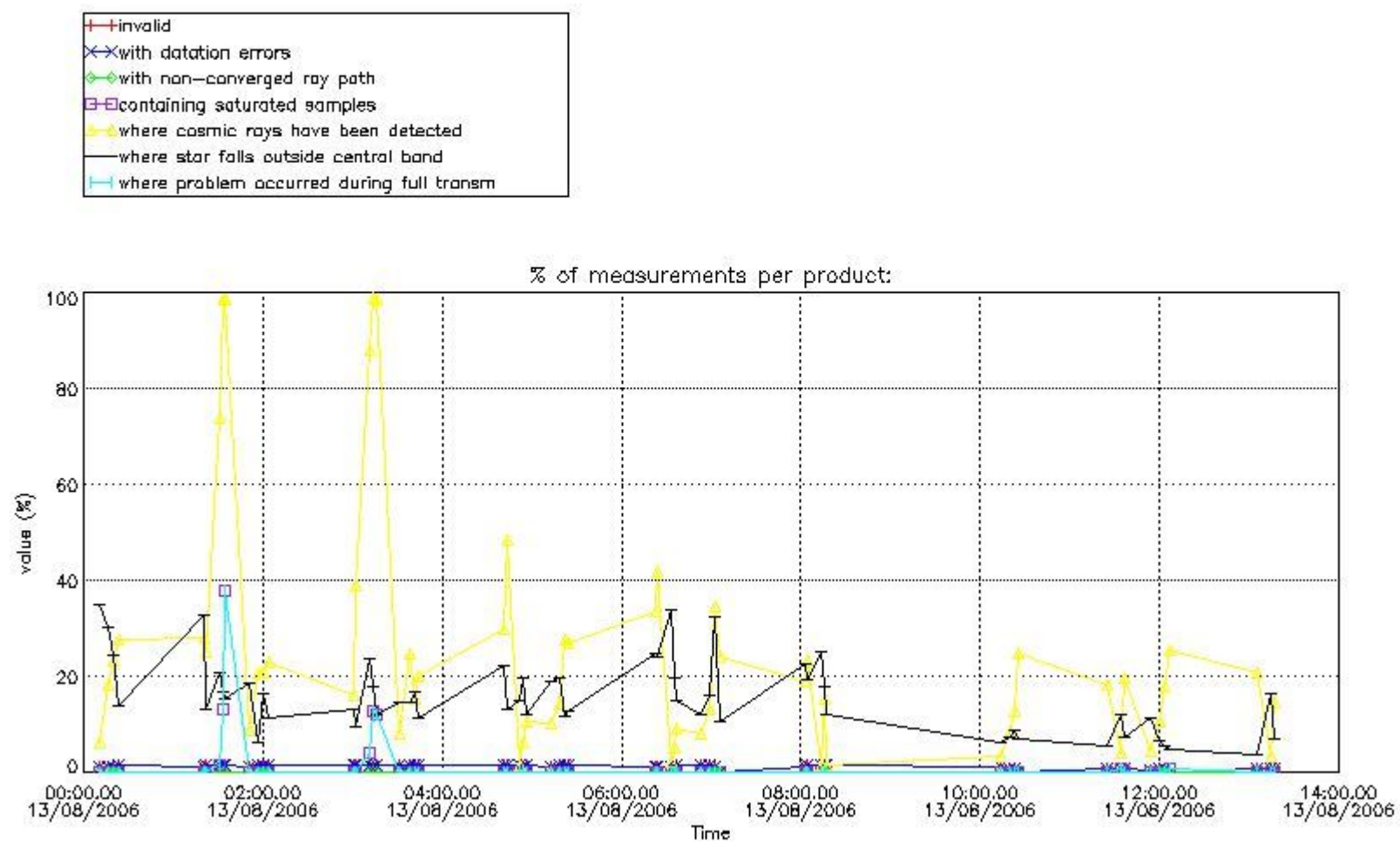


4. Level 1 quality information per product

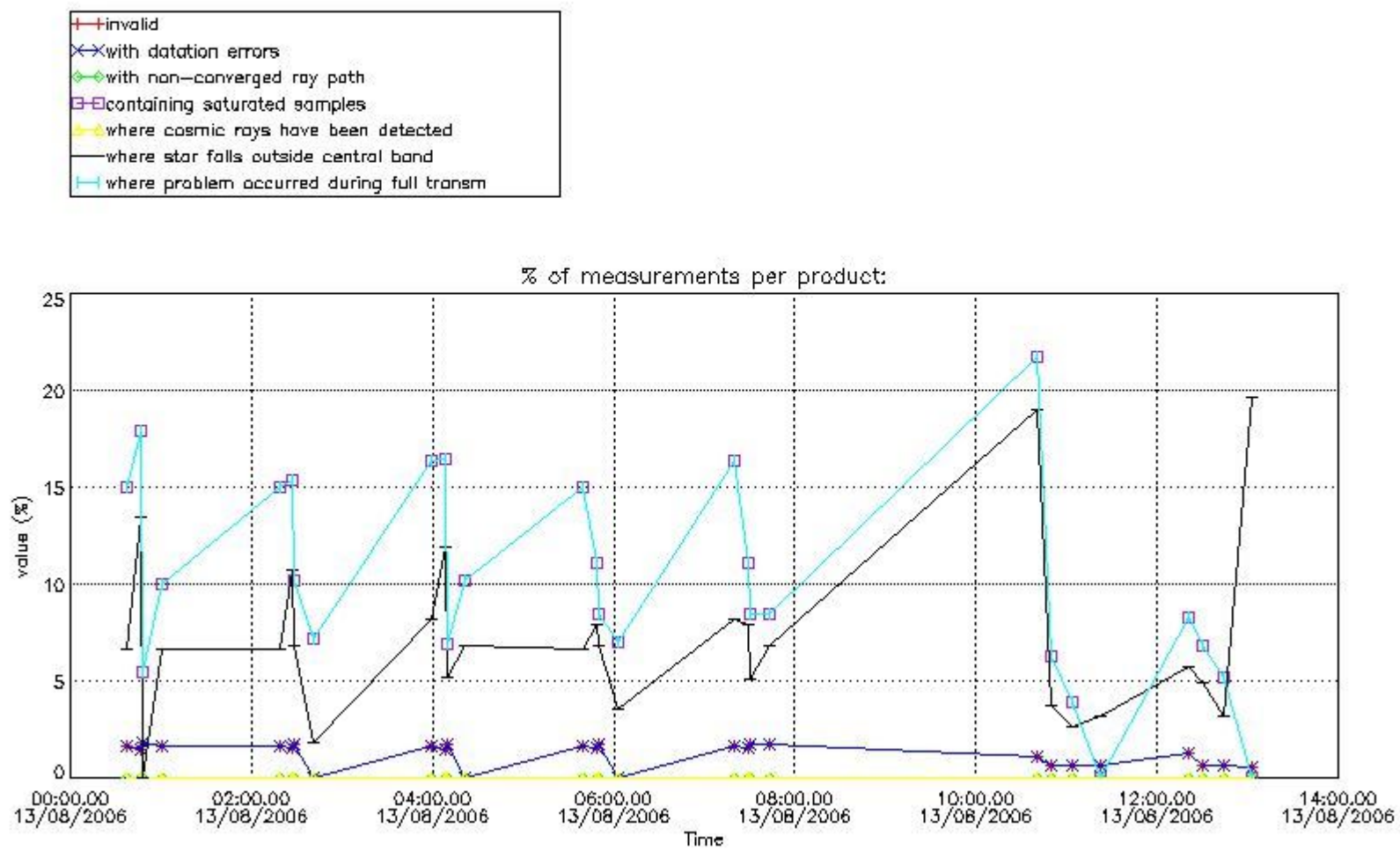
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



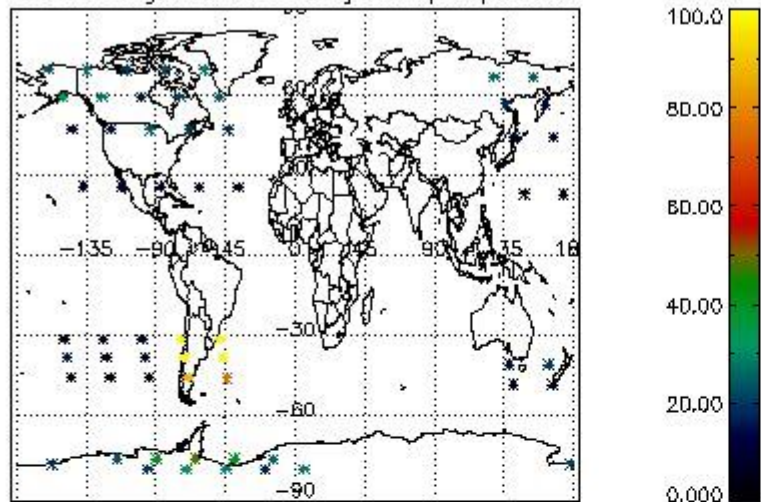
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



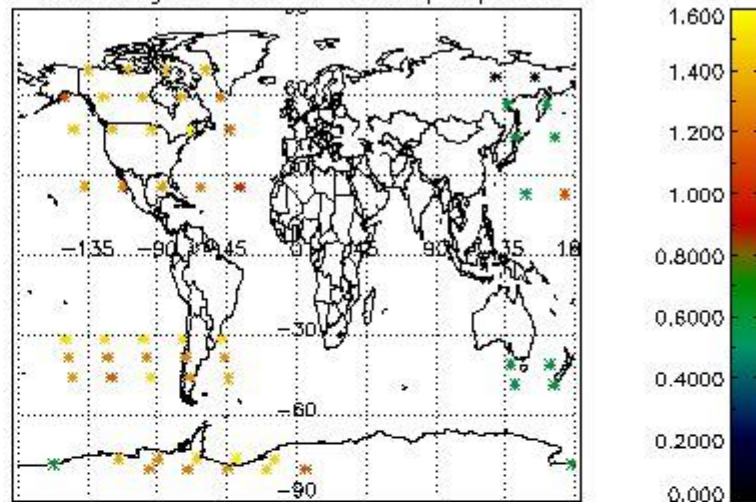
4.2 Plot quality information per product coming from level 1b processing (world map)

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

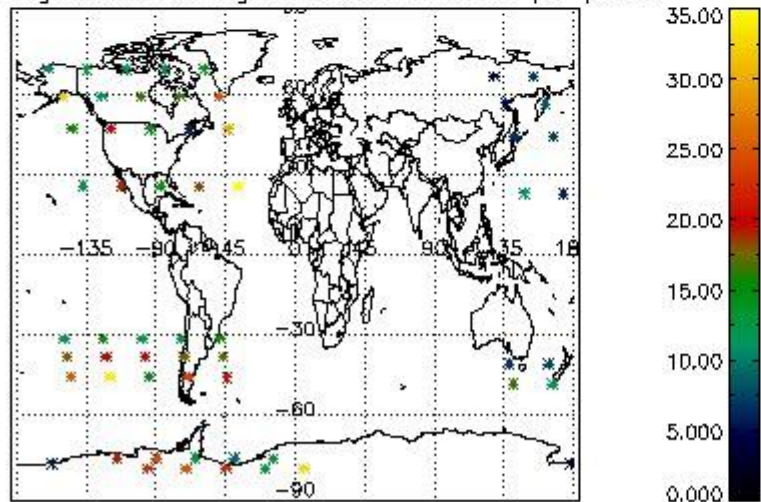
Percentage of cosmic ray hits per profile



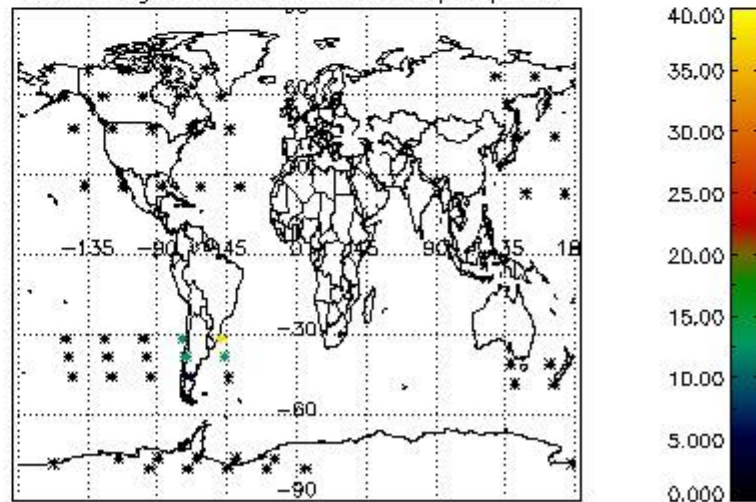
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

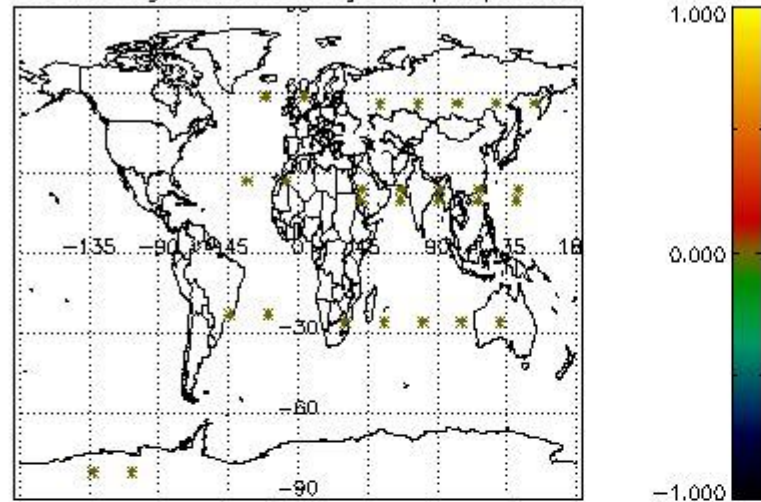


Percentage of saturation errors per profile

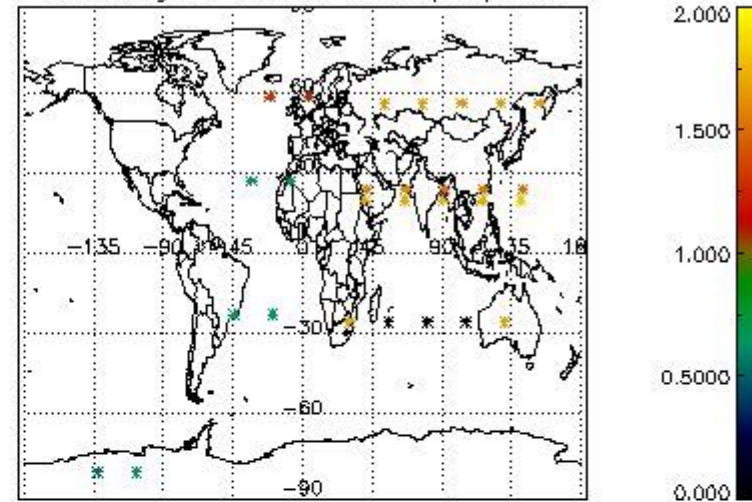


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

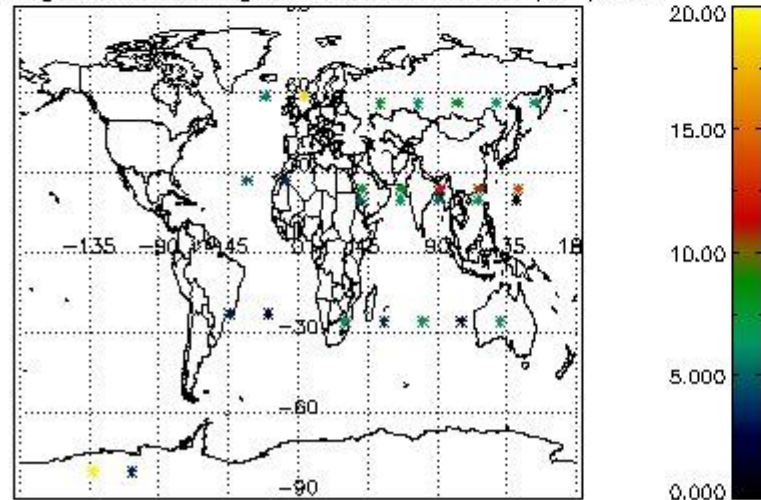
Percentage of cosmic ray hits per profile



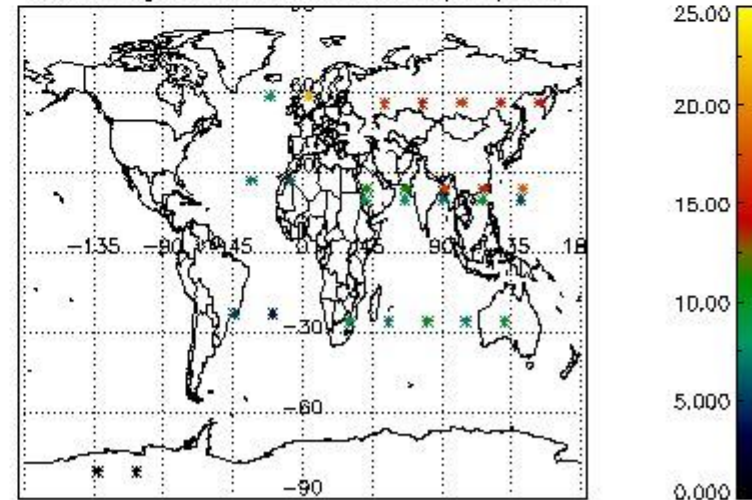
Percentage of datation errors per profile



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

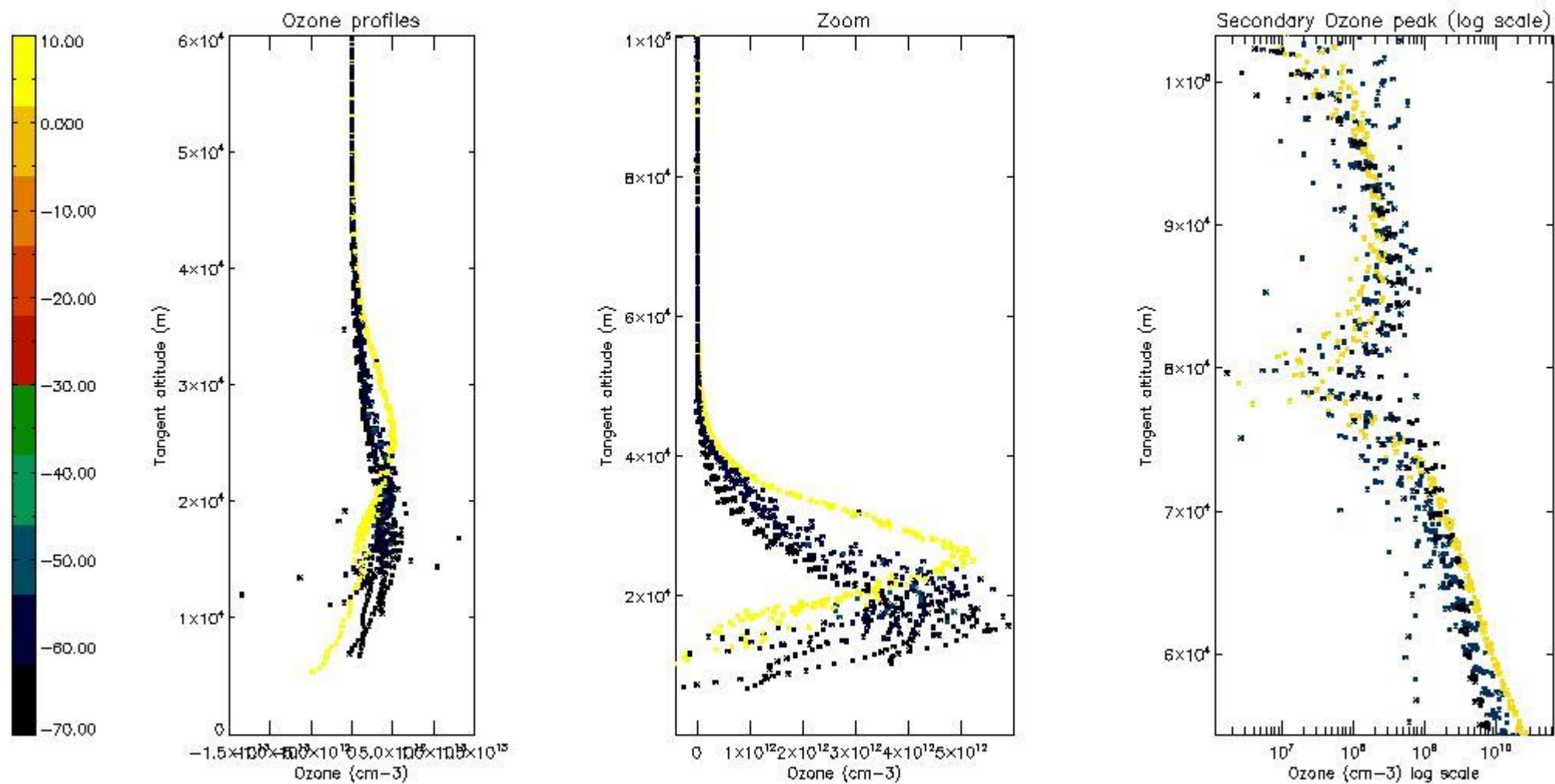
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	31
STD < 20	16

STD < 10	13
STD < 5	10

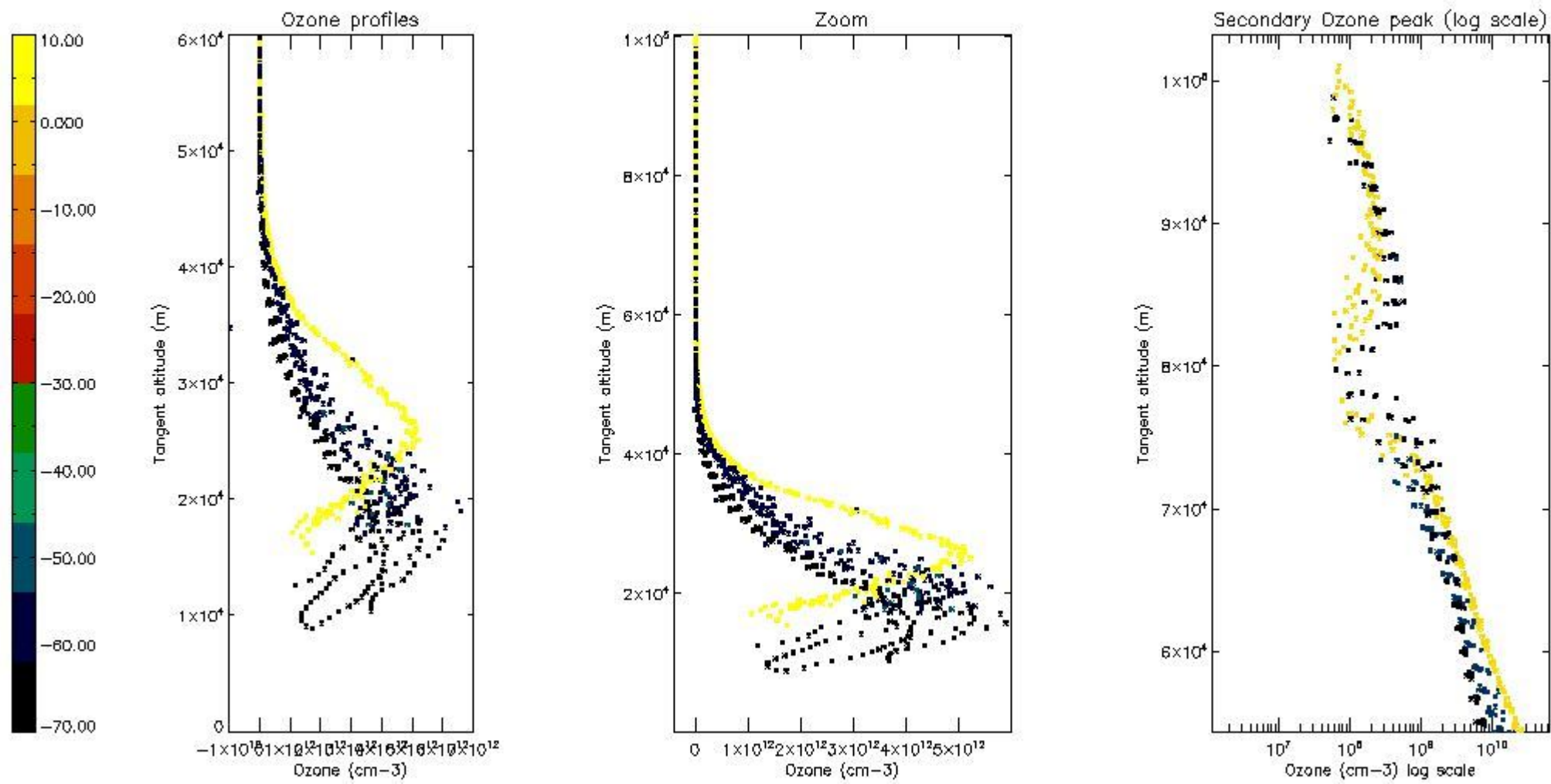
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



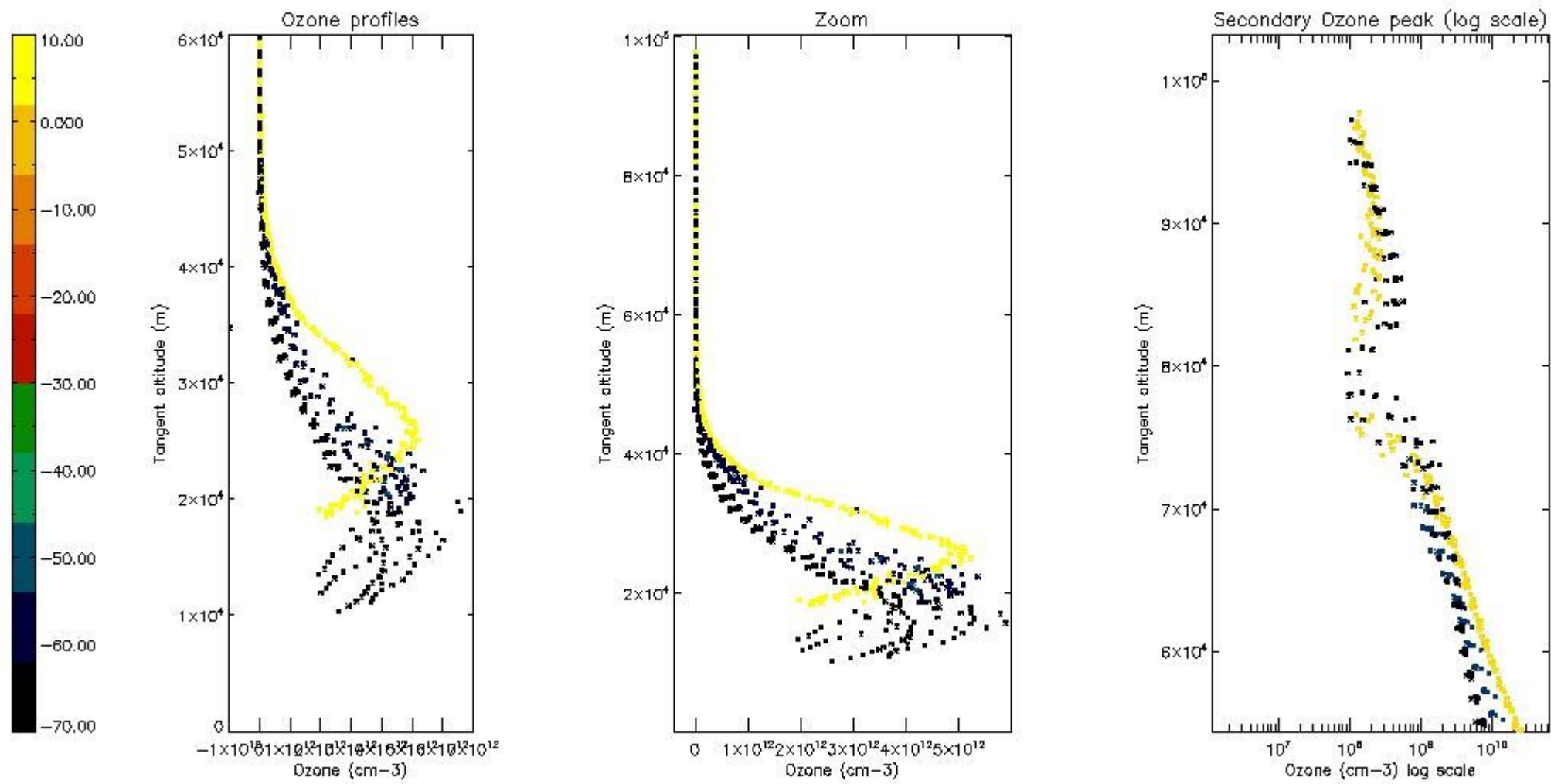
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



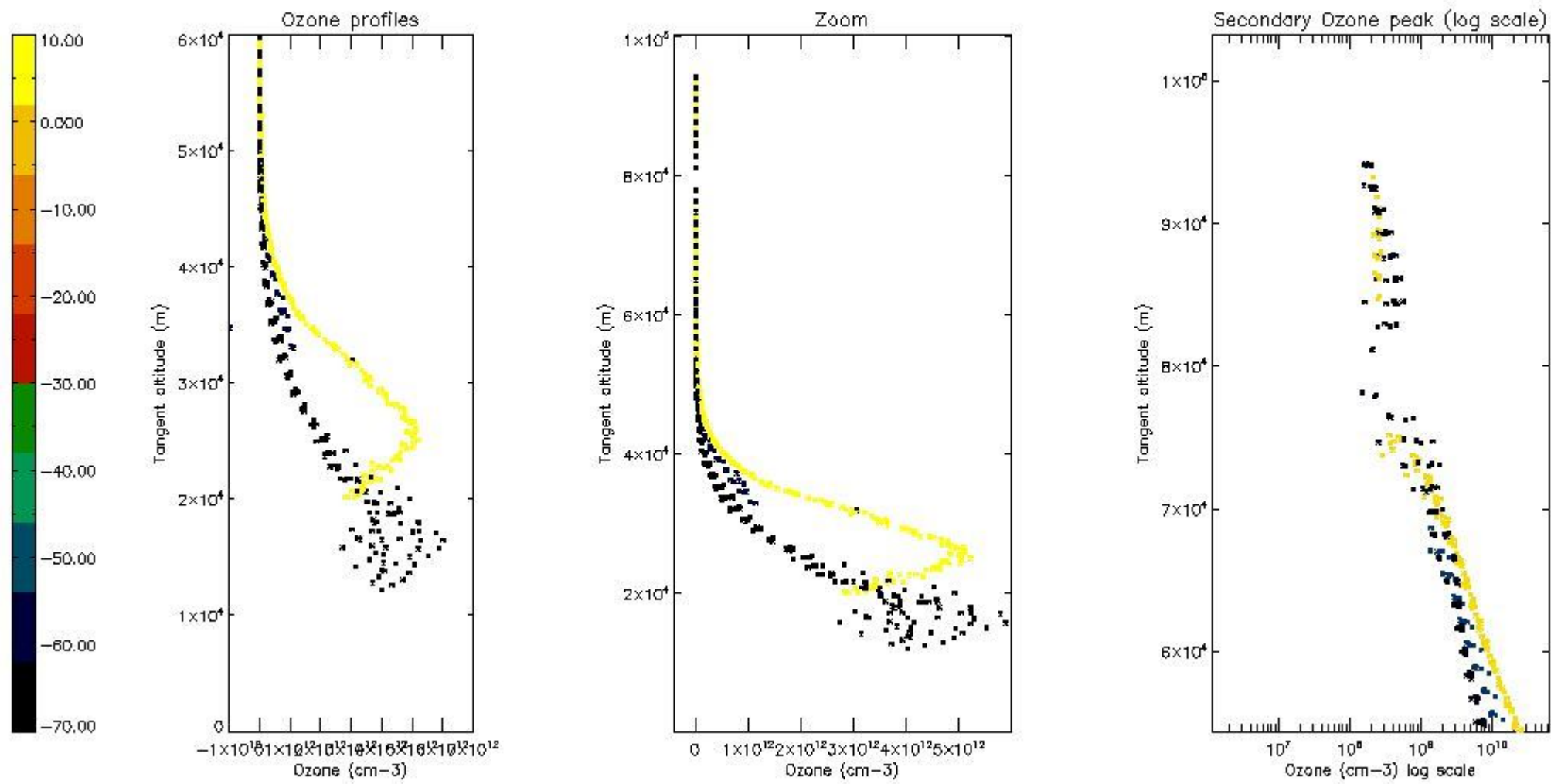
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



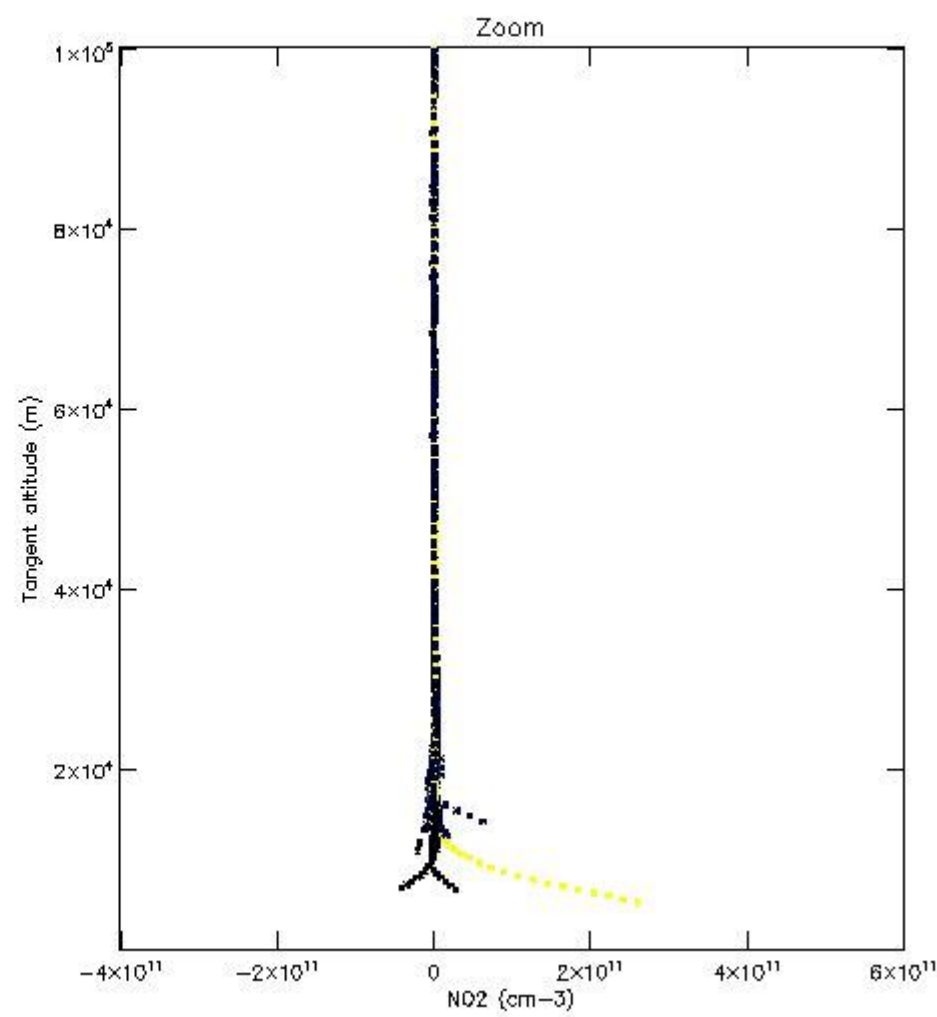
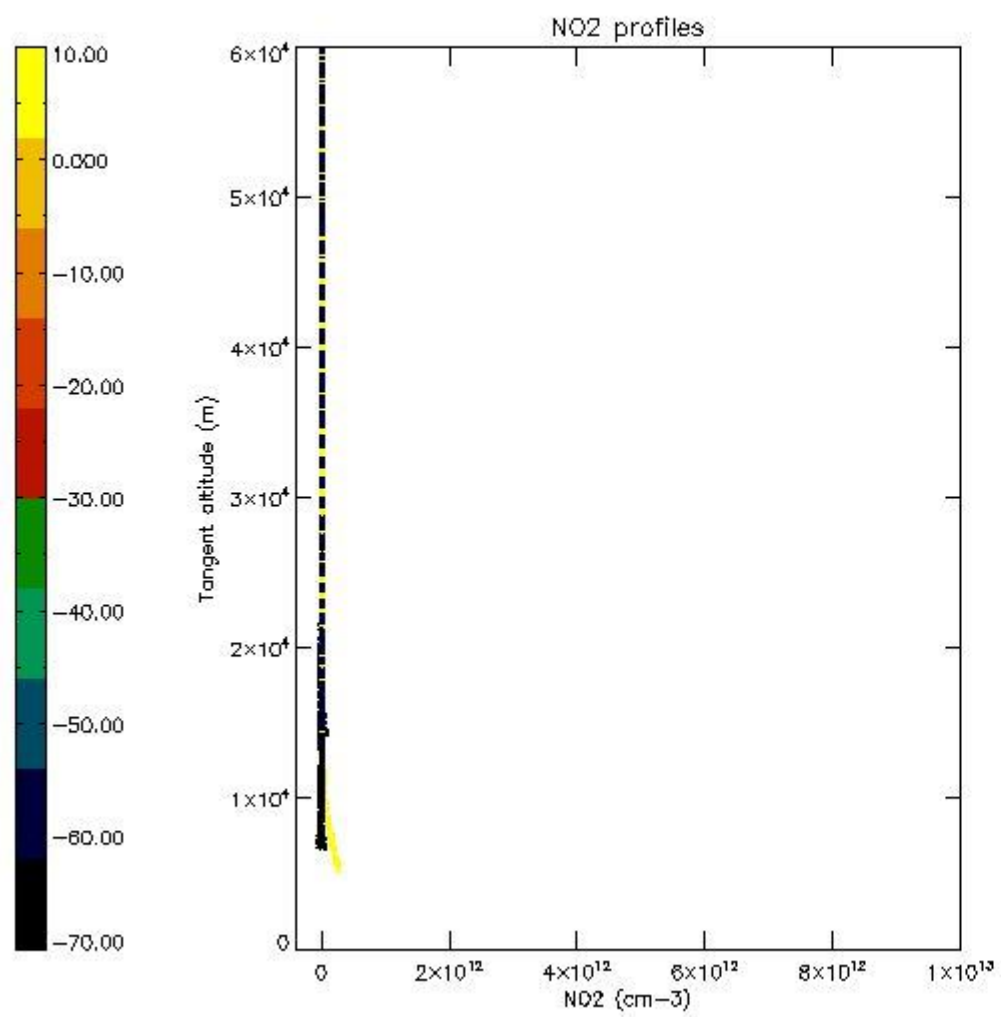
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



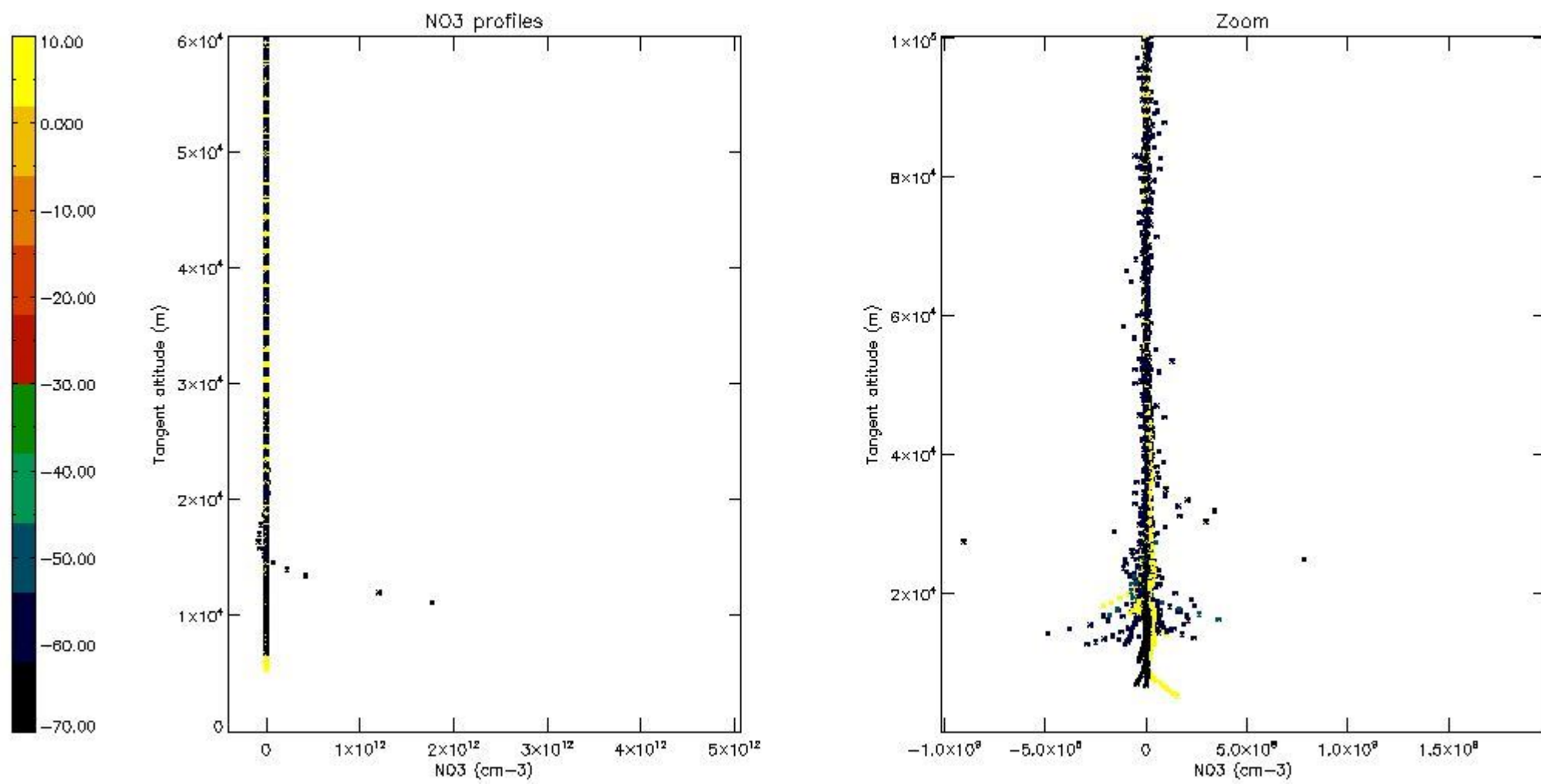
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



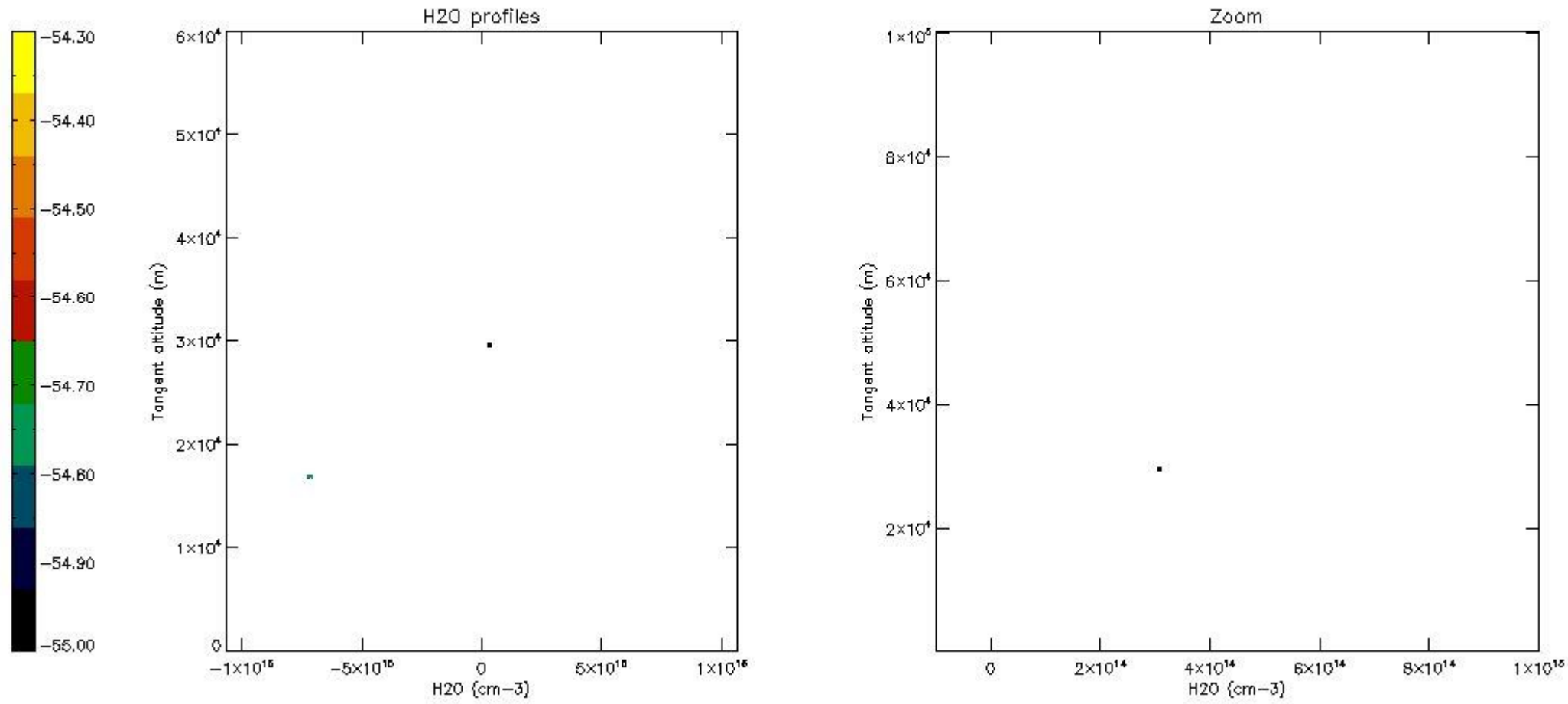
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	13-AUG-2006 00:10:25
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	13-AUG-2006 00:10:25
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	13-AUG-2006 00:10:25

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 \(world map\)](#)

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

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

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

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

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

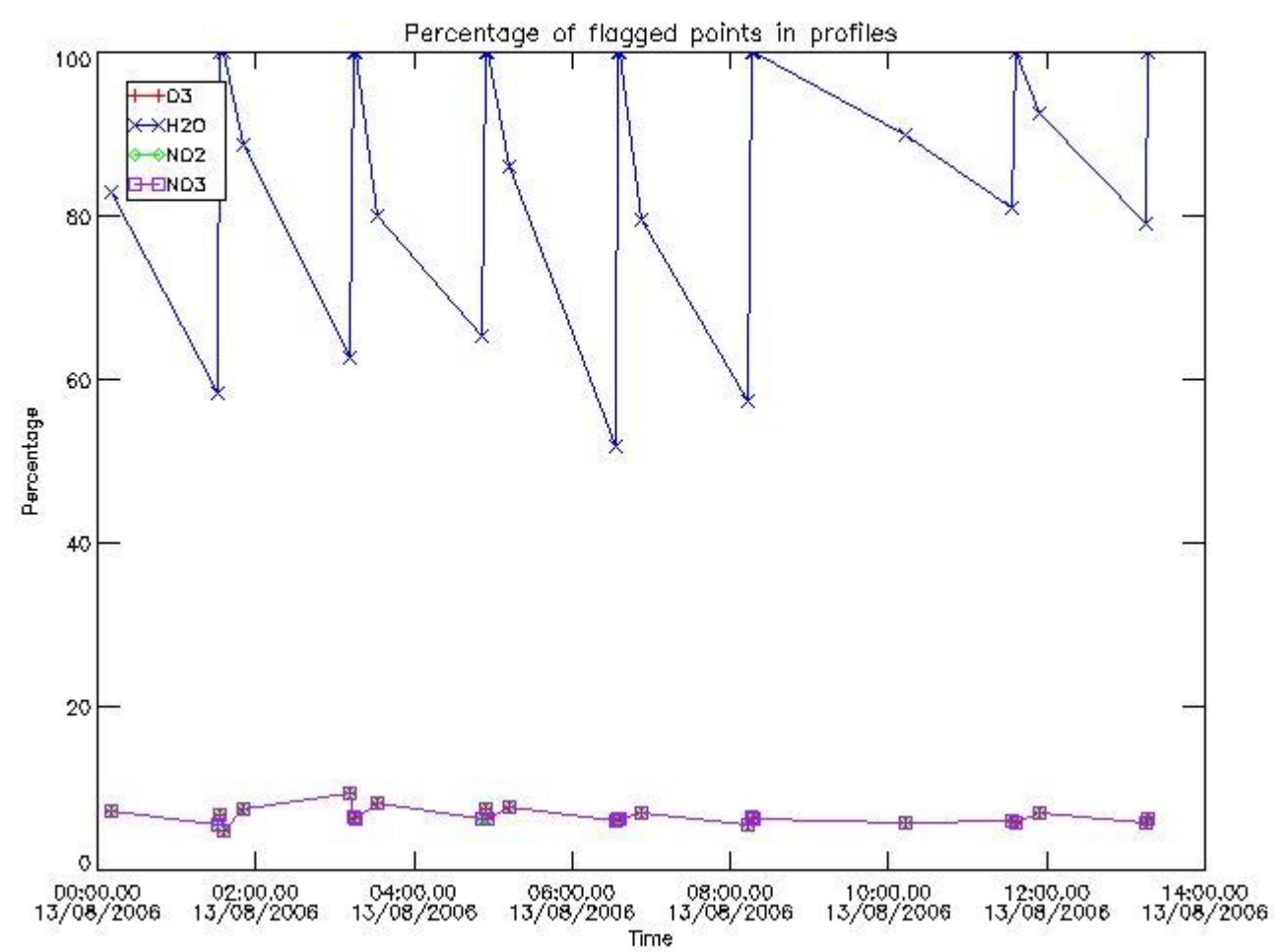
[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

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

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

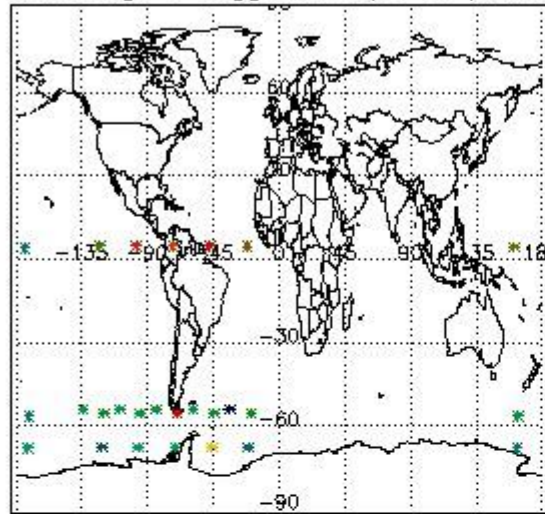
[5.8 Plot H2O profiles \(only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors\) for all STD](#)

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

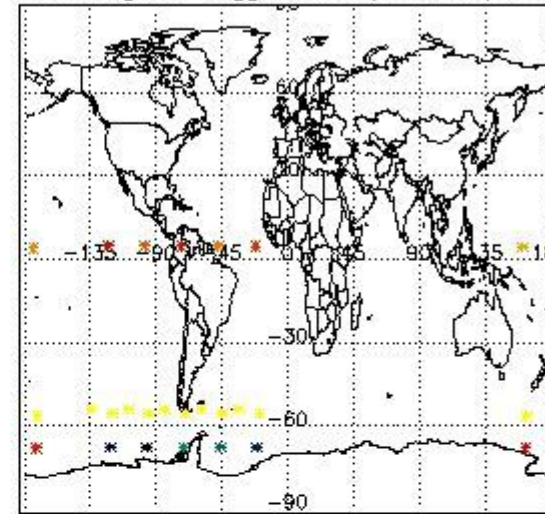


3.2 Plot quality information per product (world map)

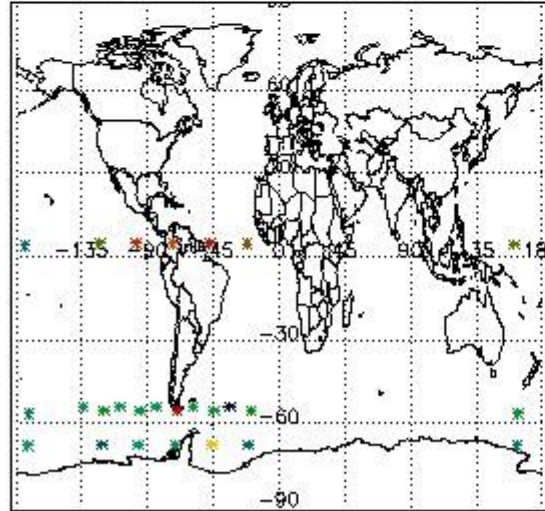
Percentage of flagged data per O3 profile



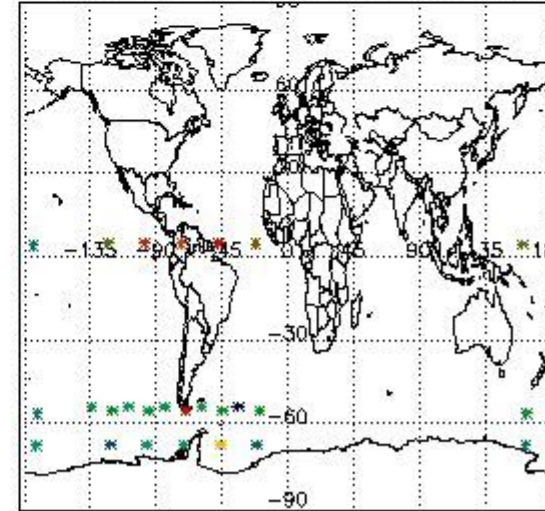
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

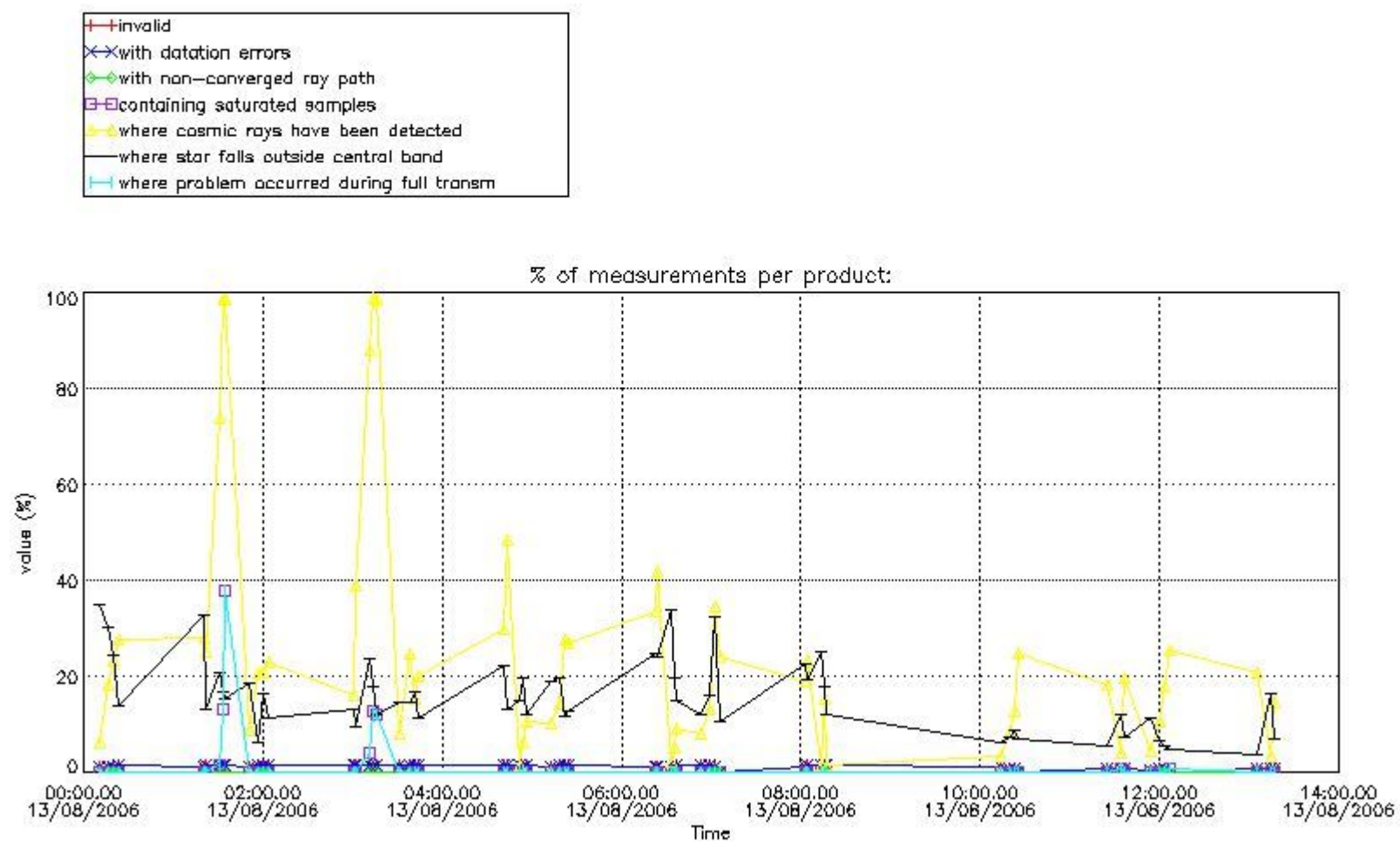


4. Level 1 quality information per product

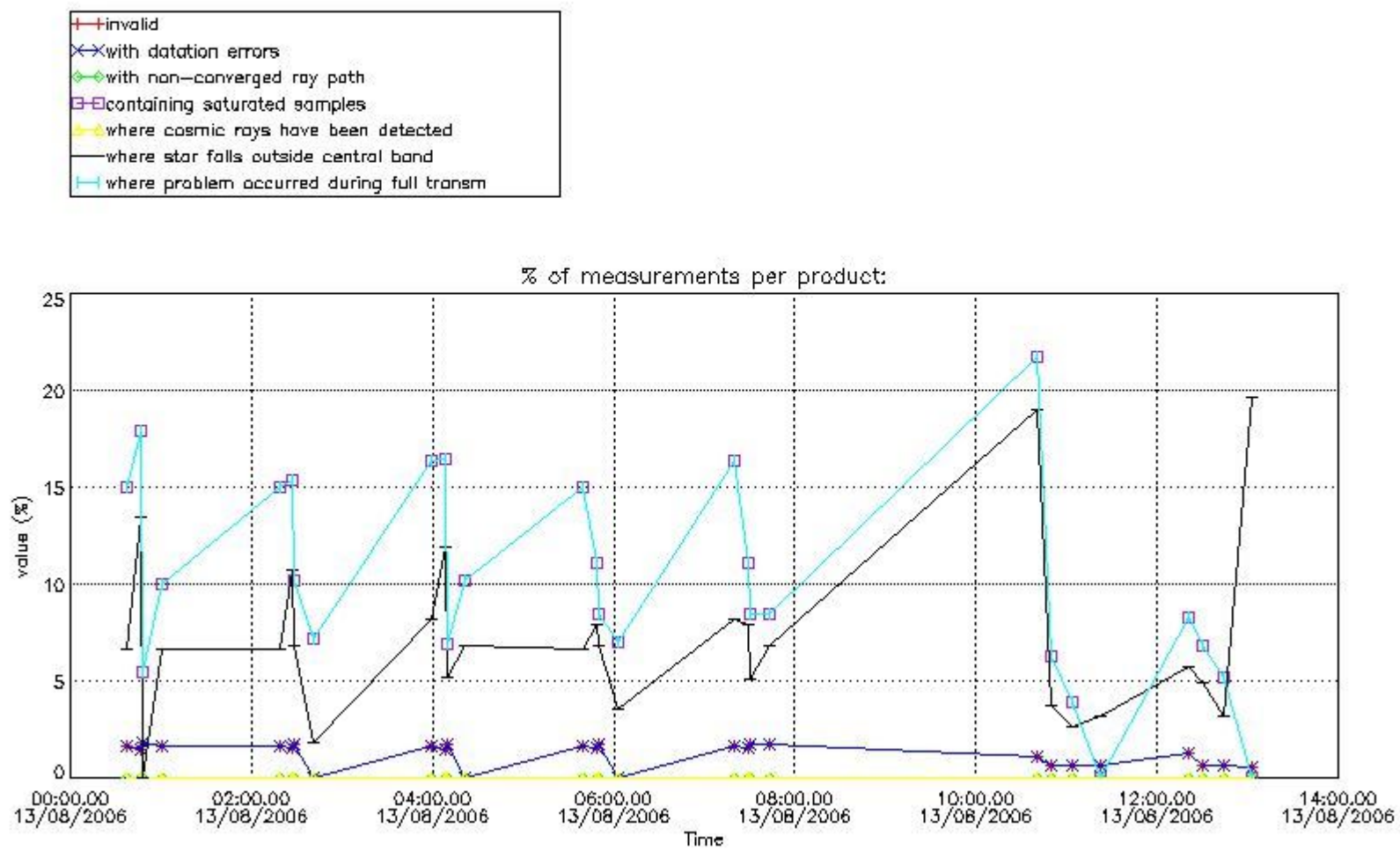
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

4.1 Plot quality information per product (time dependant) coming from level 1b processing

4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes



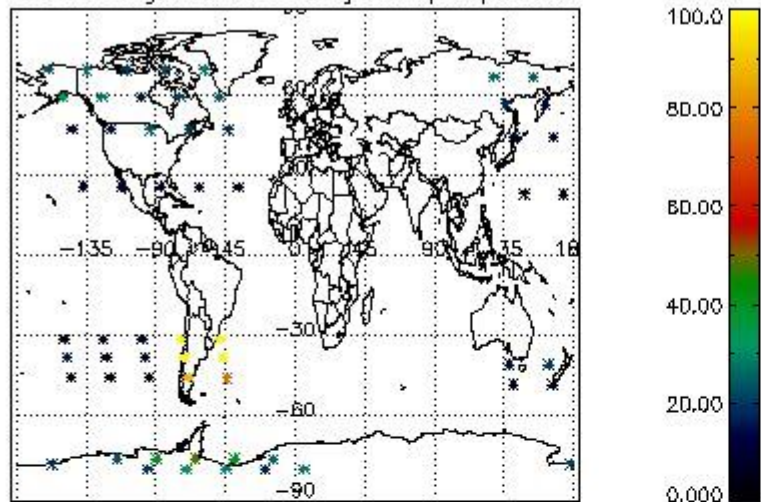
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



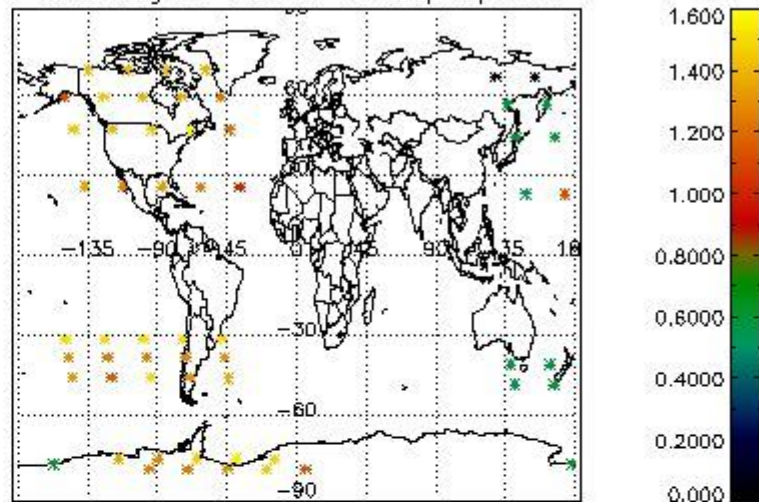
4.2 Plot quality information per product coming from level 1b processing (world map)

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

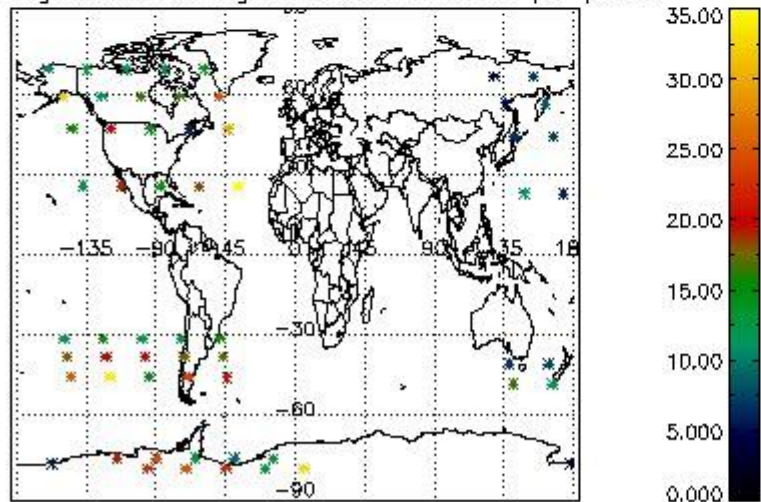
Percentage of cosmic ray hits per profile



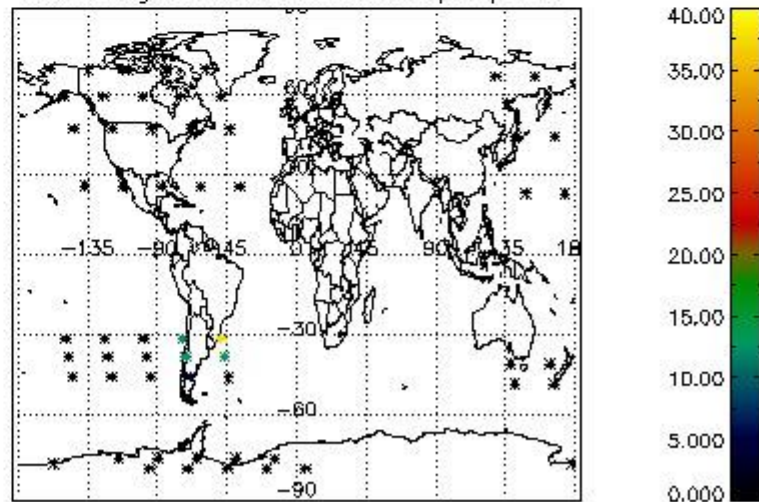
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

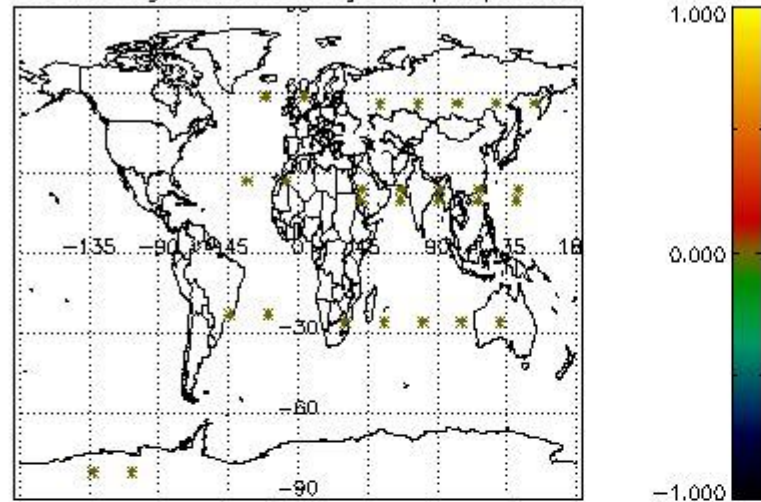


Percentage of saturation errors per profile

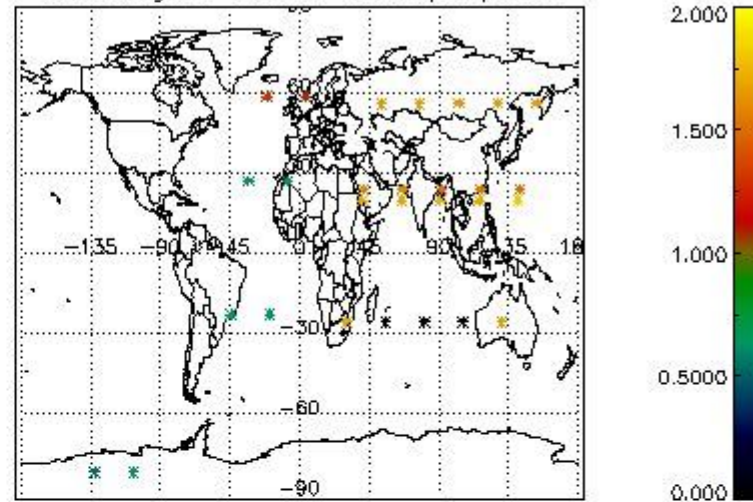


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

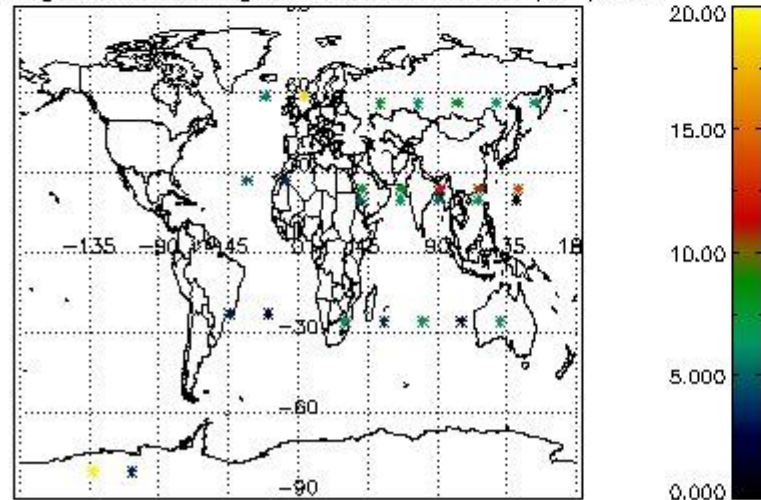
Percentage of cosmic ray hits per profile



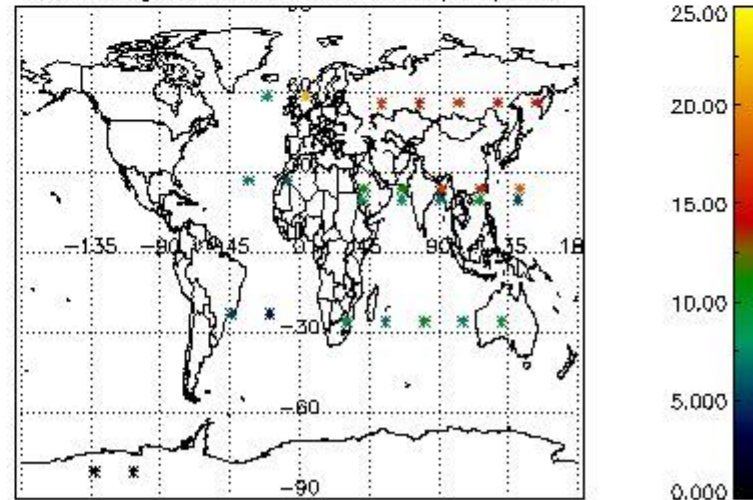
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

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

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

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

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

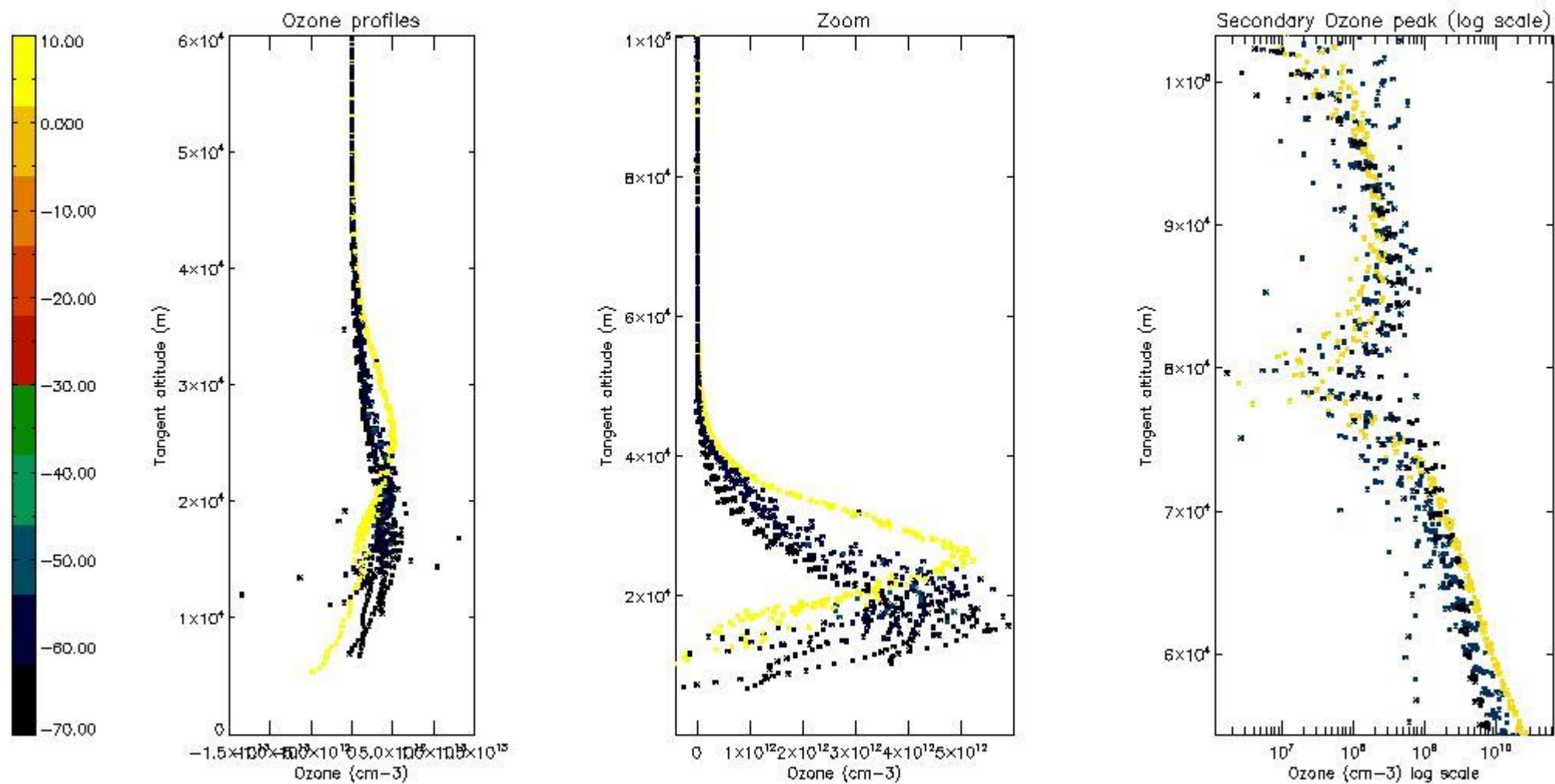
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	31
STD < 20	16

STD < 10	13
STD < 5	10

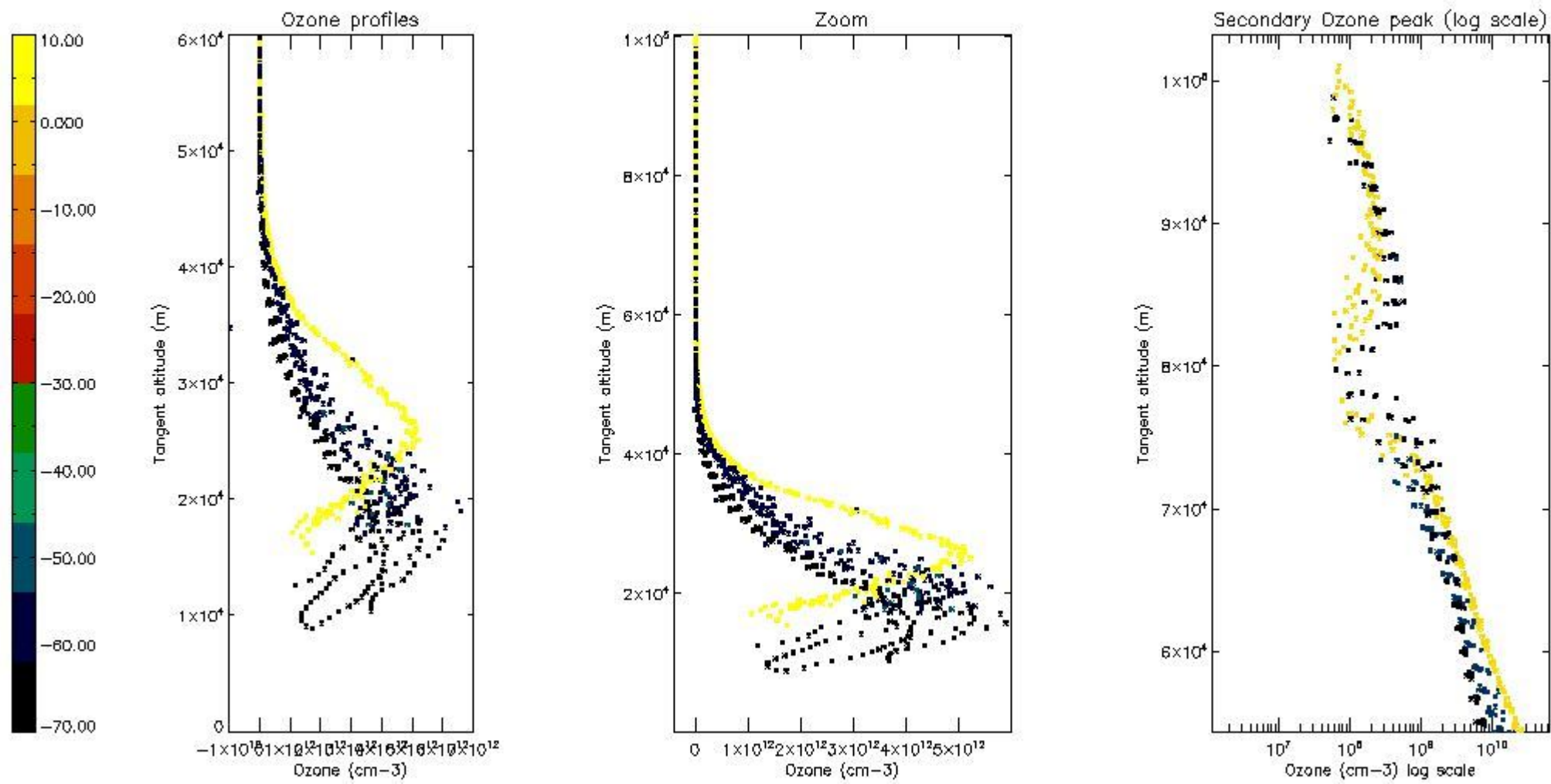
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



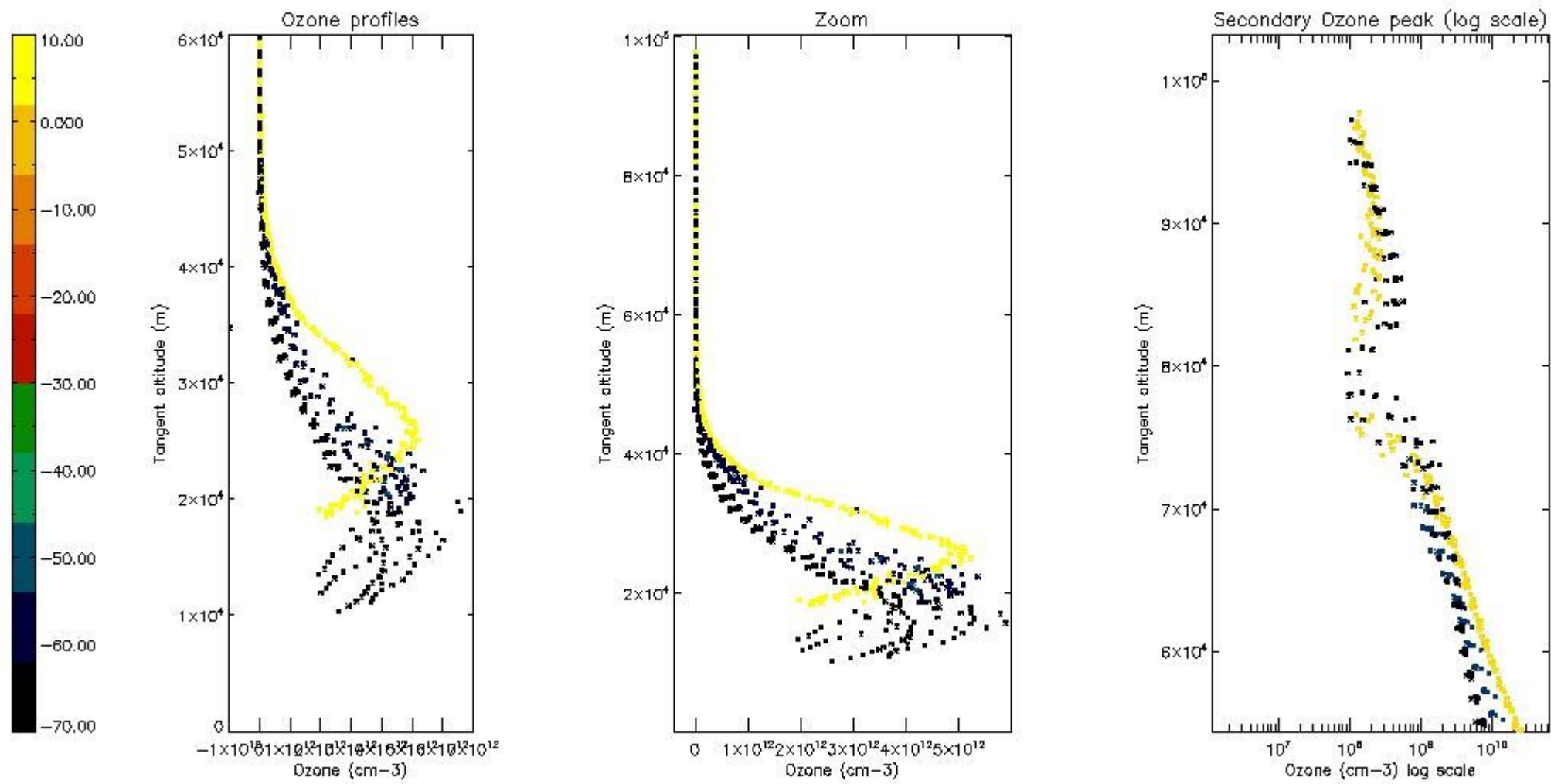
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



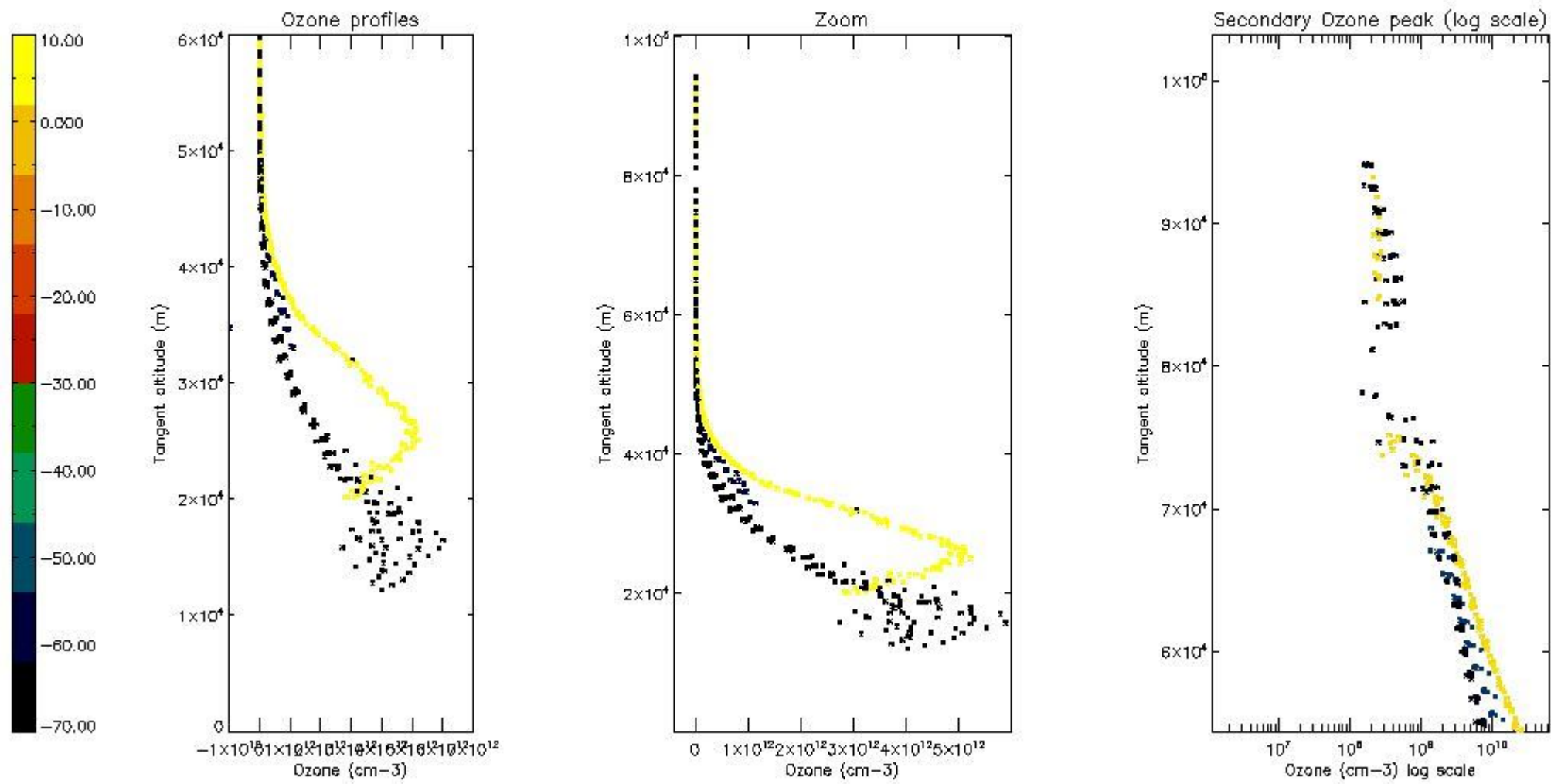
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



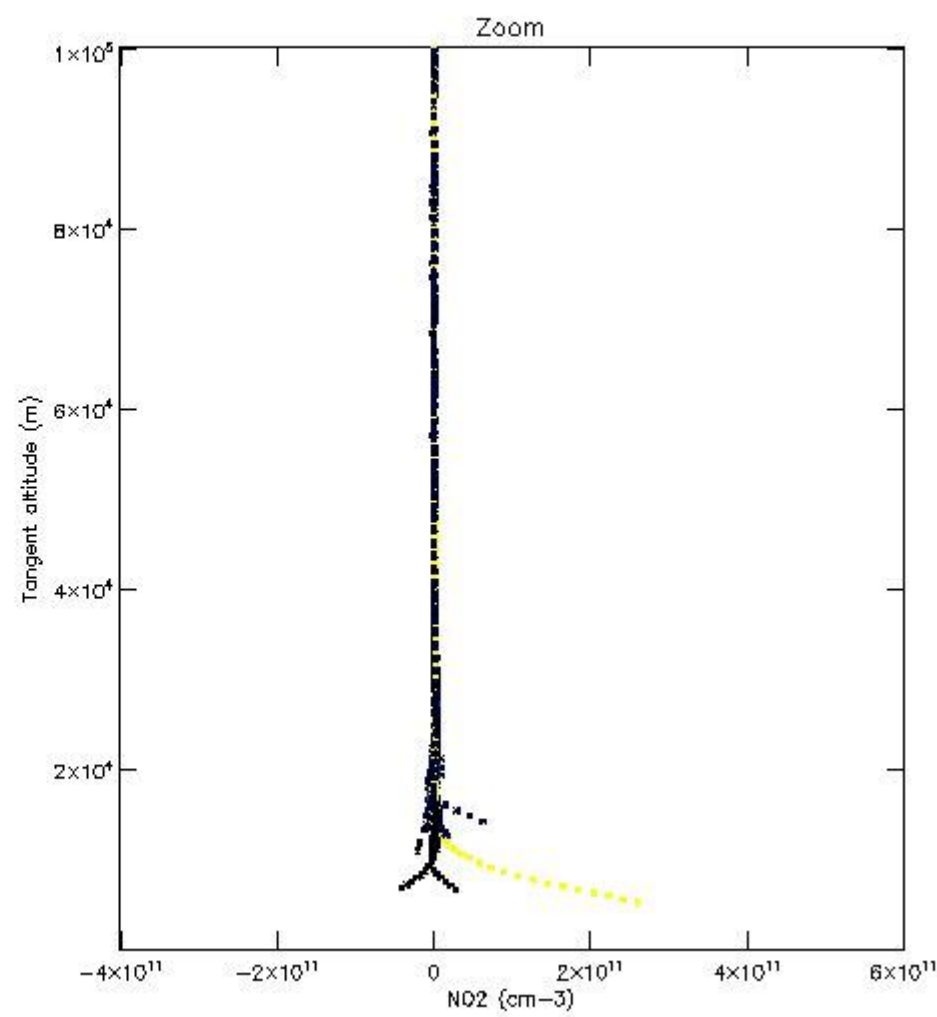
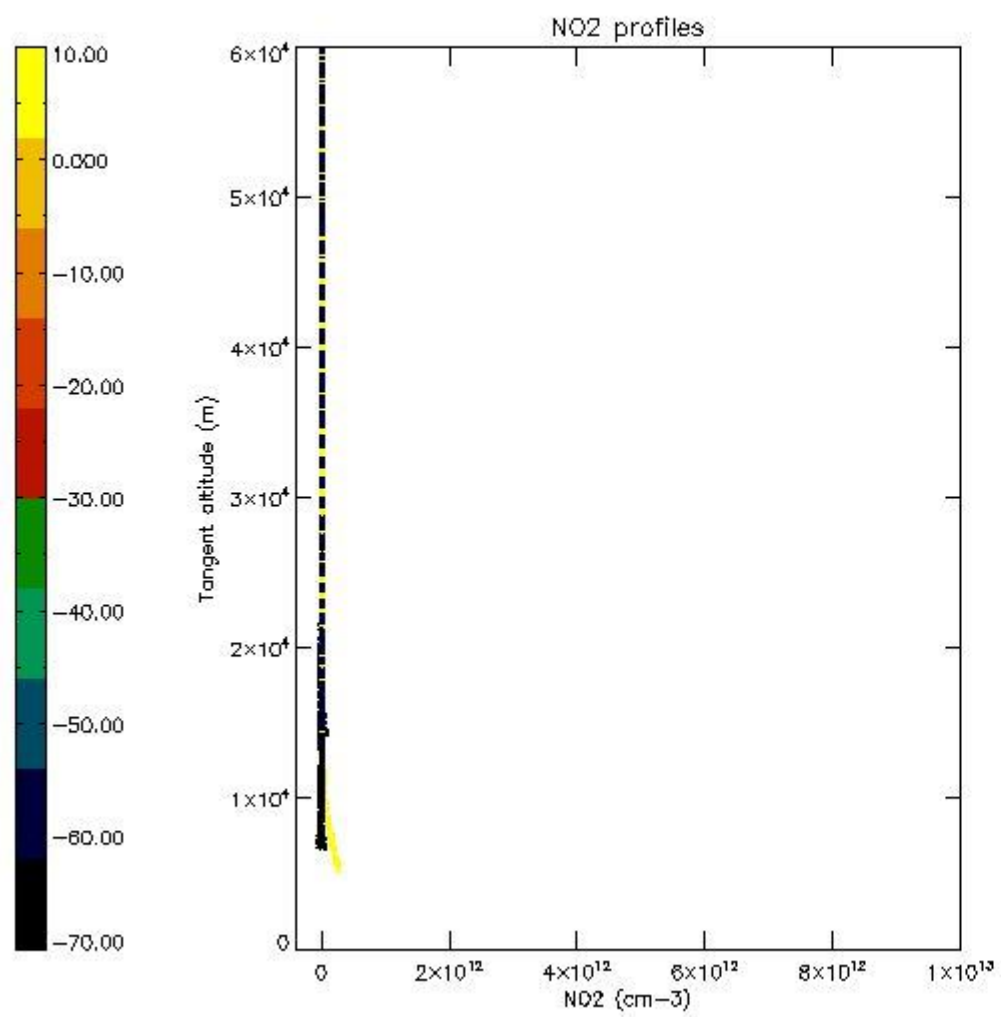
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



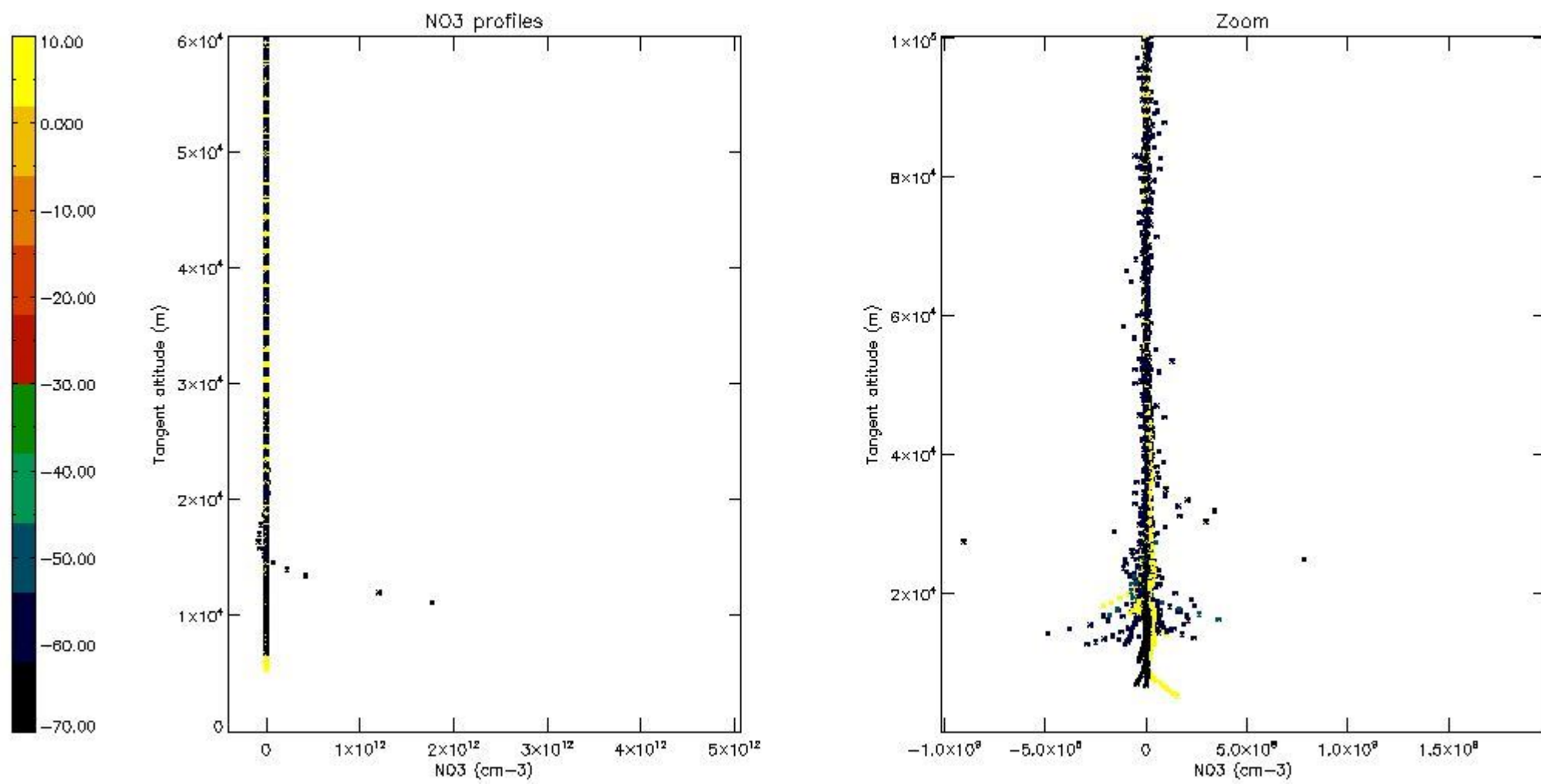
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



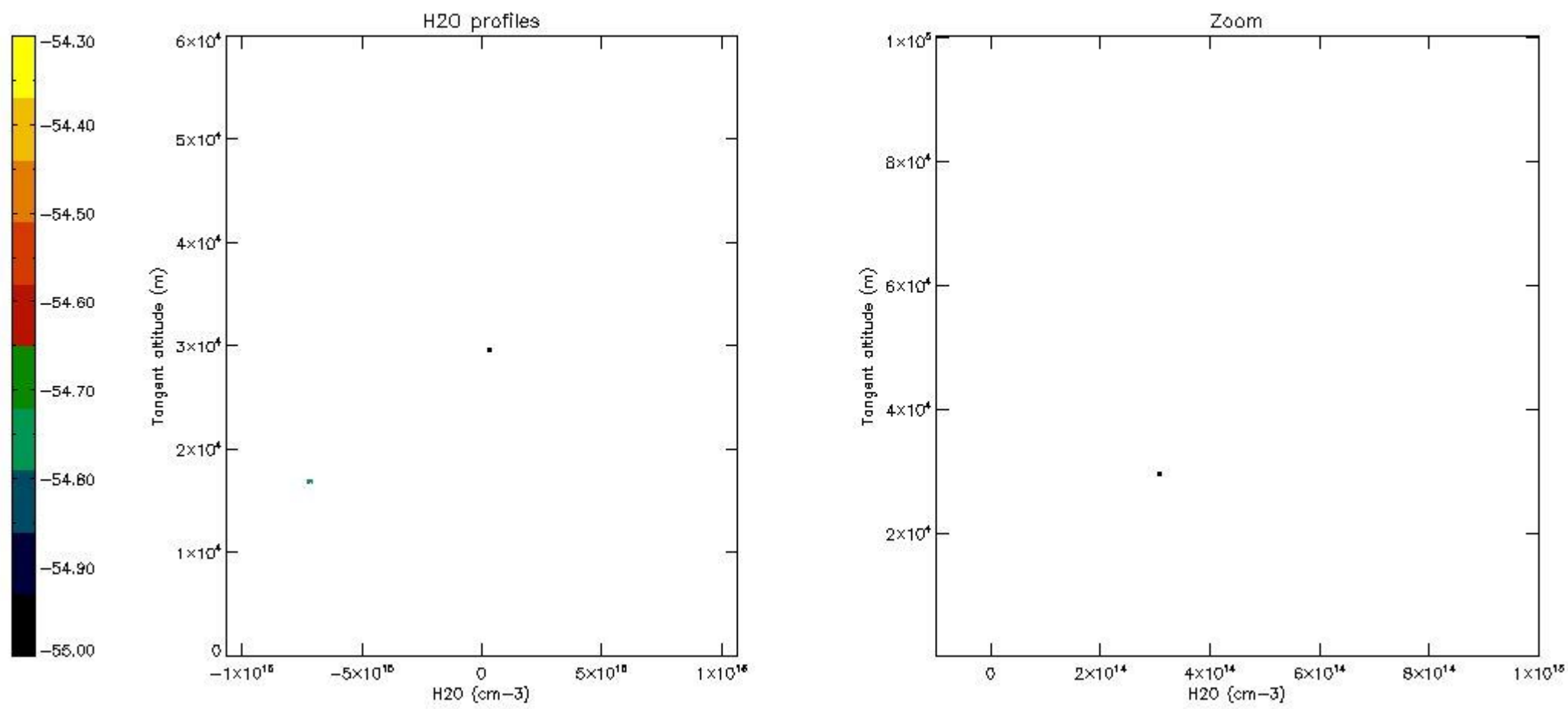
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

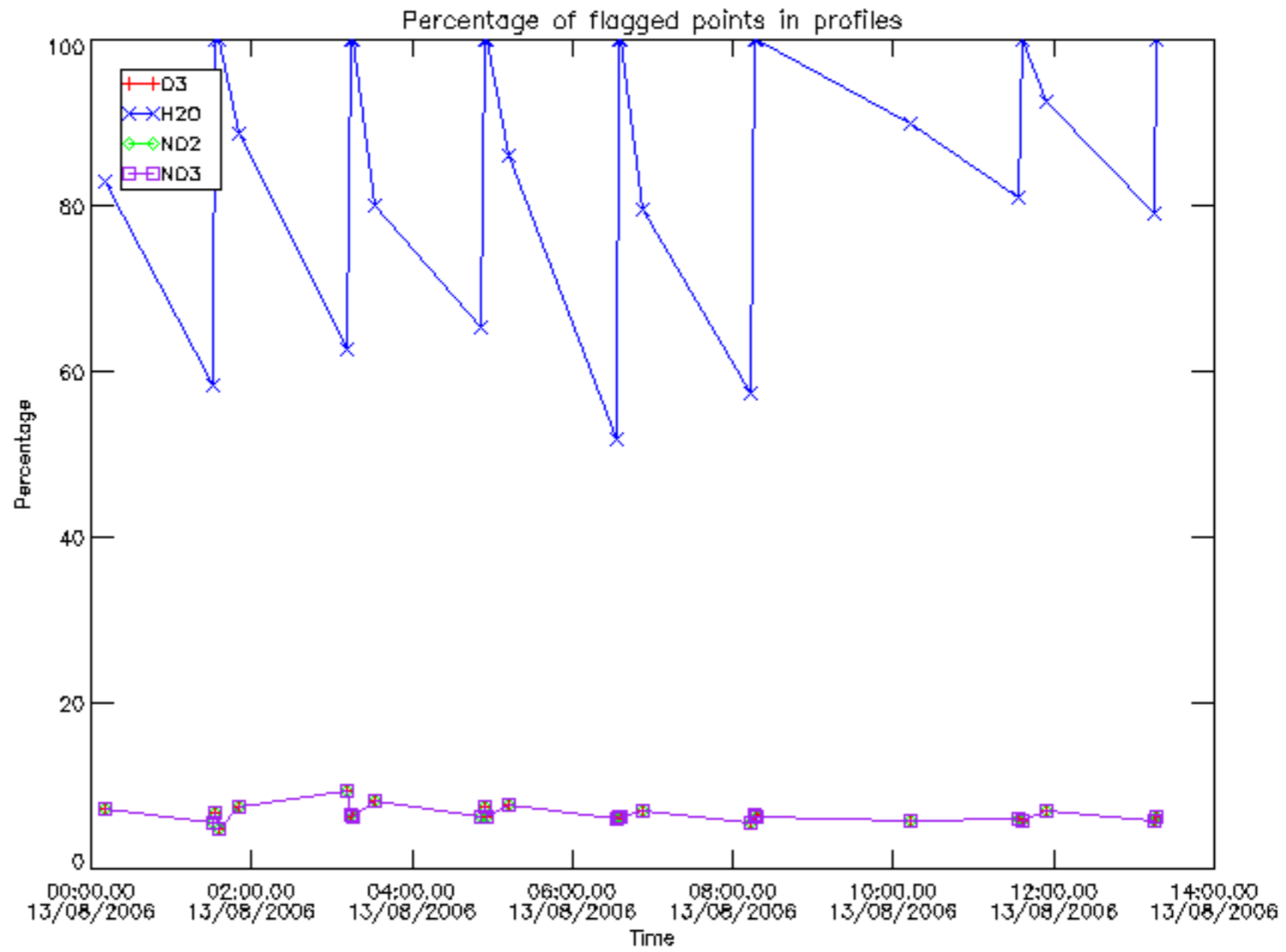
The colorbar represents the latitude.



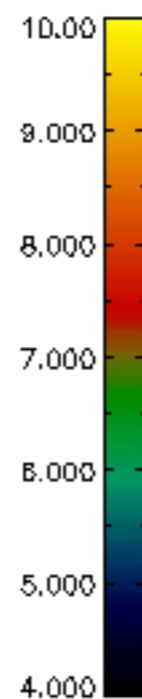
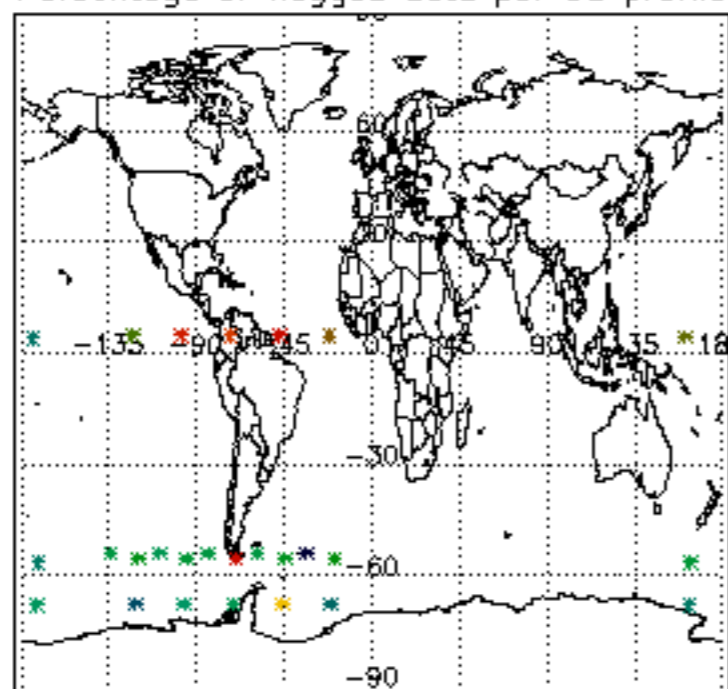
6. Auxiliary Data Files used for the production reported in section 2

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

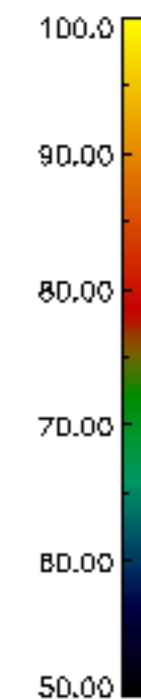
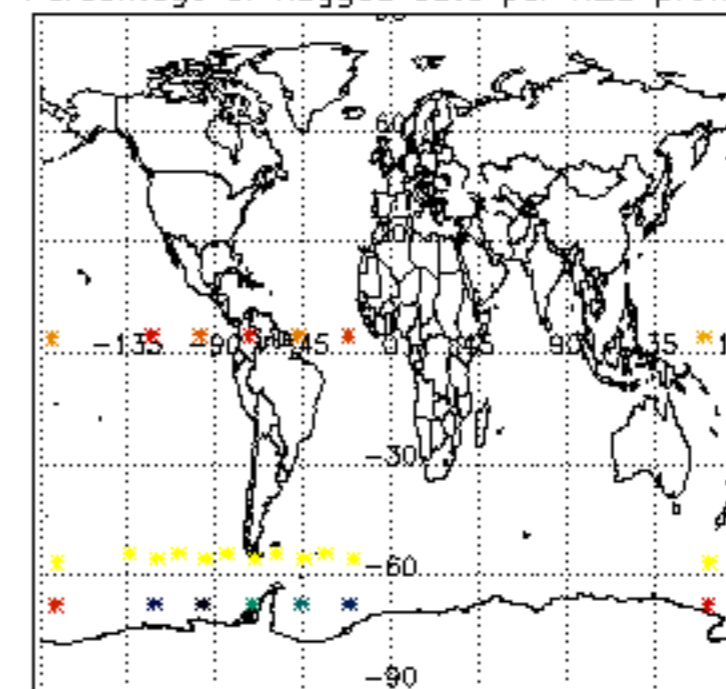
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	13-AUG-2006 00:10:25
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	13-AUG-2006 00:10:25
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	13-AUG-2006 00:10:25



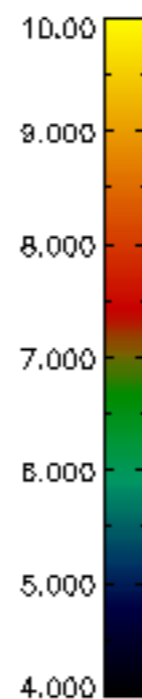
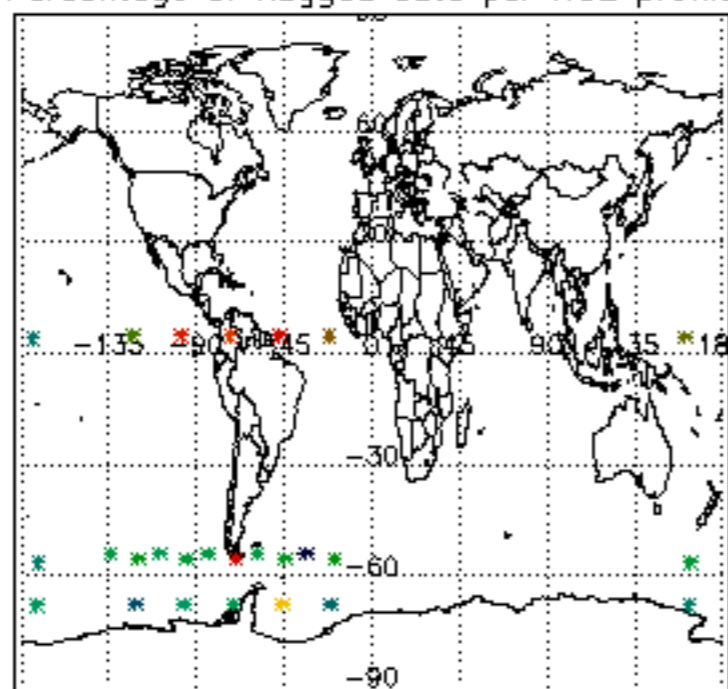
Percentage of flagged data per D3 profile



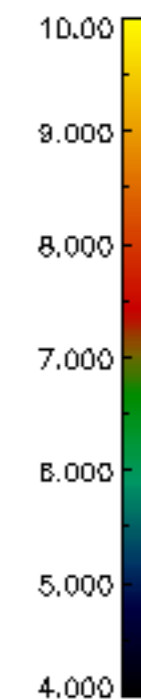
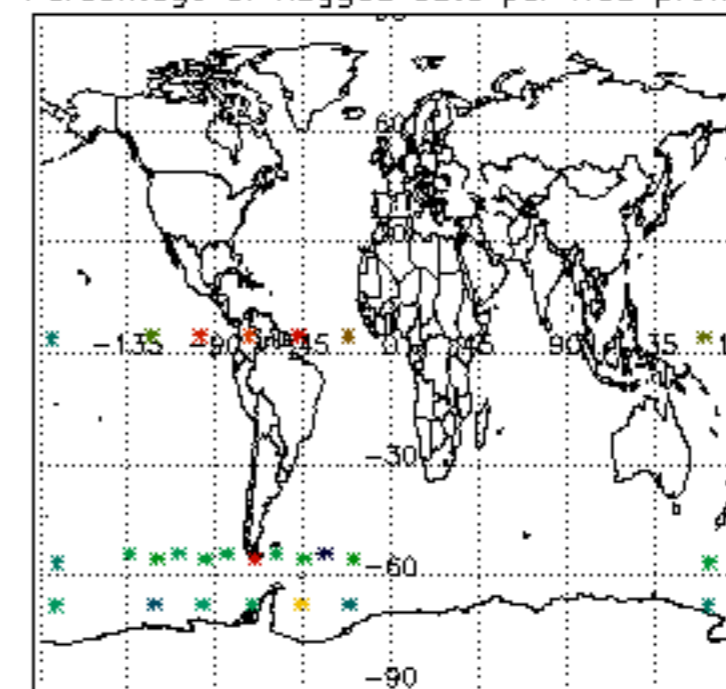
Percentage of flagged data per H2O profile

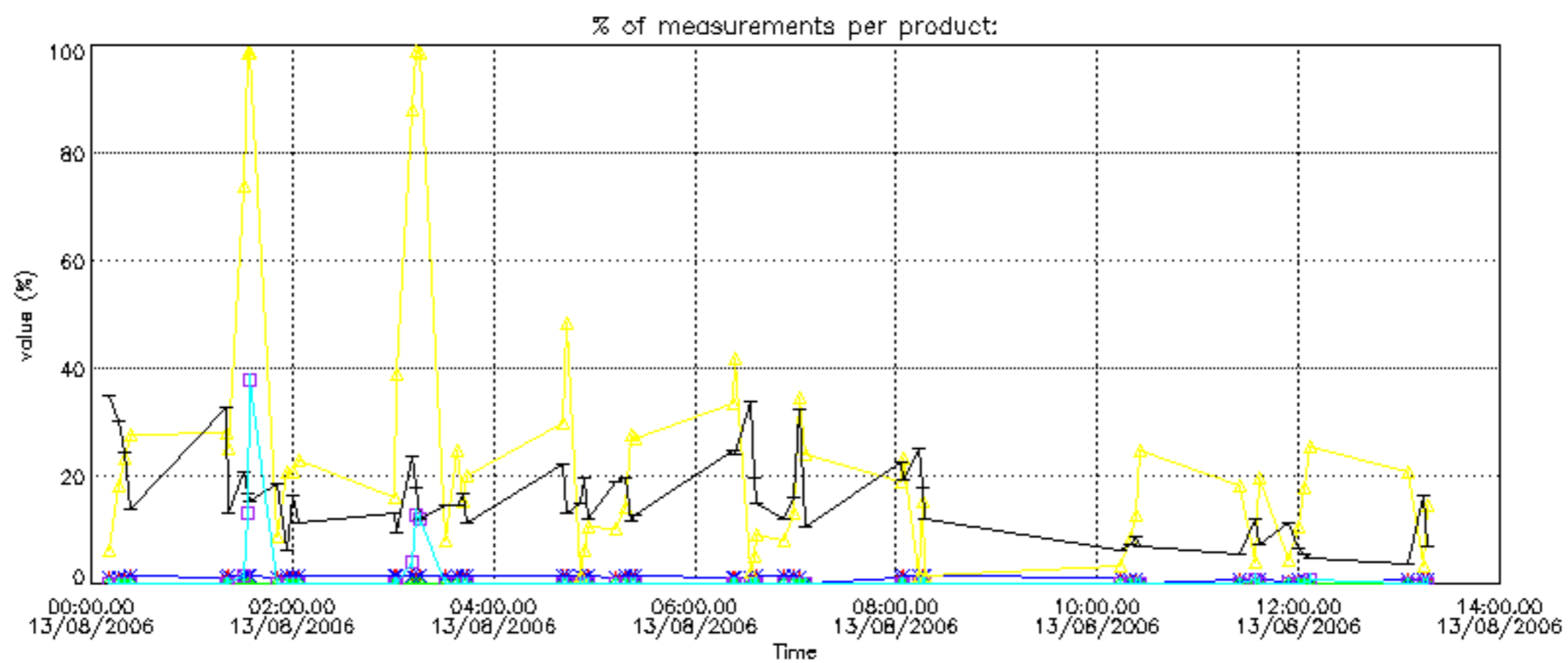
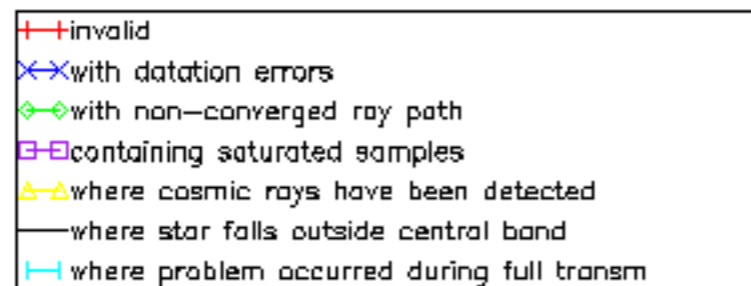


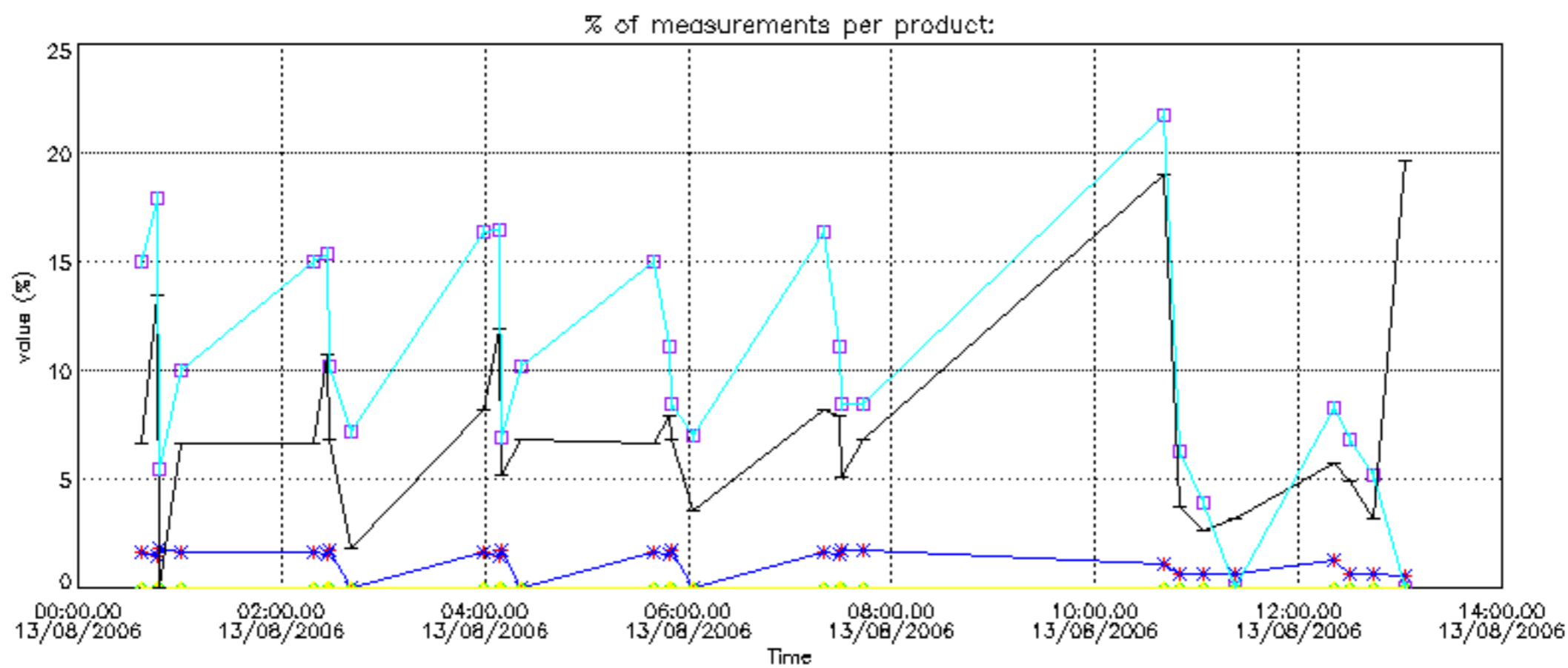
Percentage of flagged data per NO2 profile



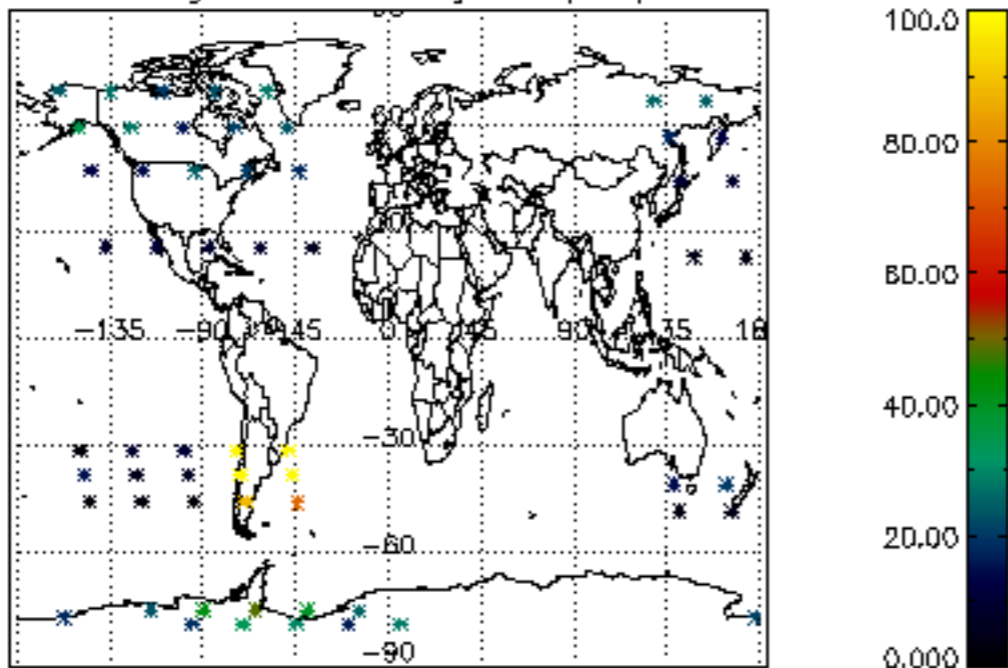
Percentage of flagged data per NO3 profile



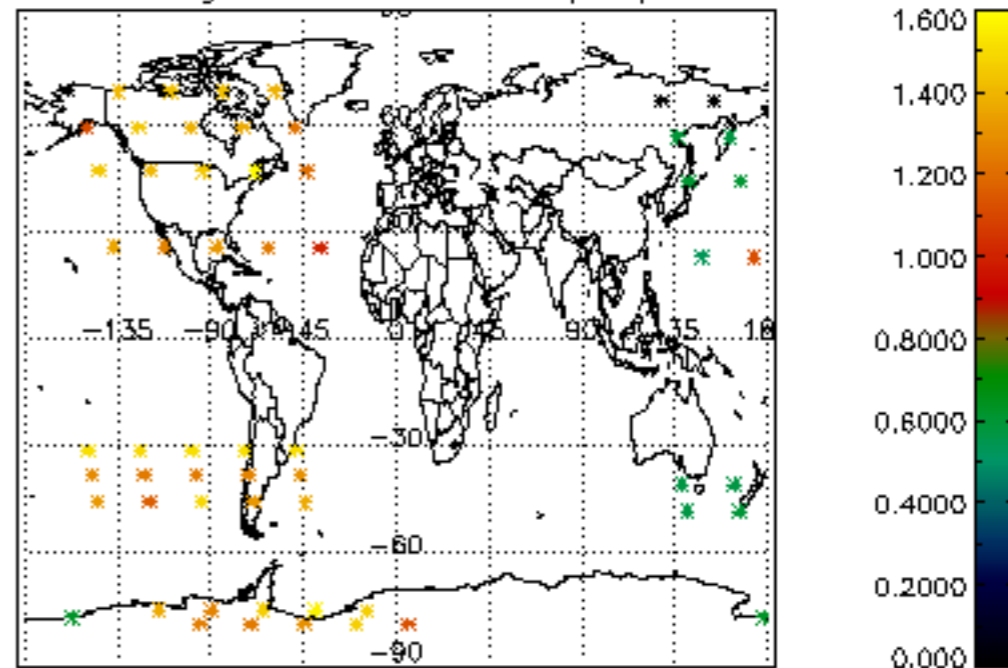




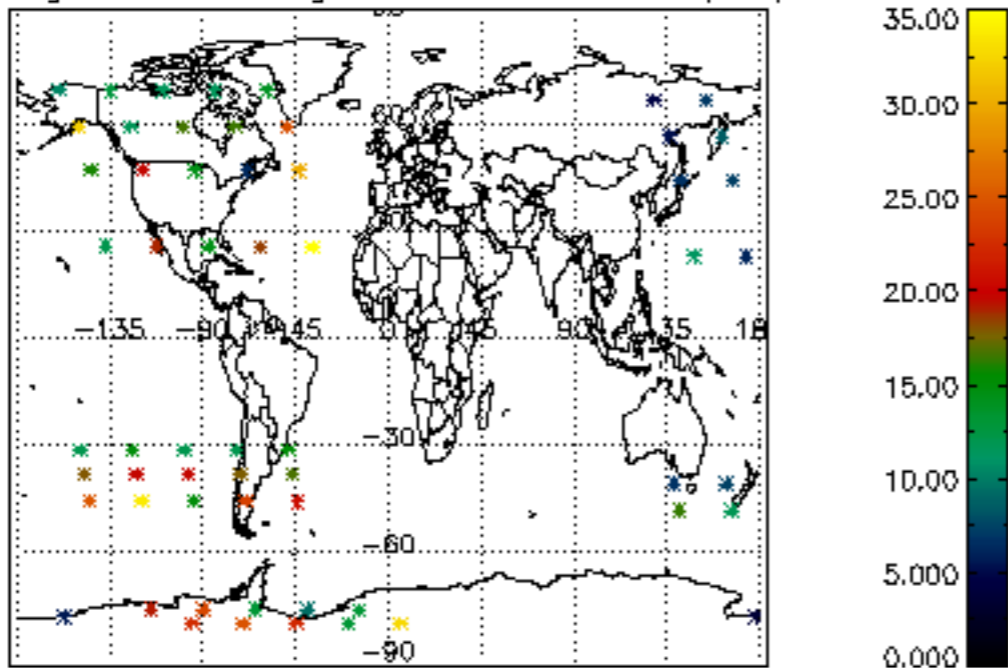
Percentage of cosmic ray hits per profile



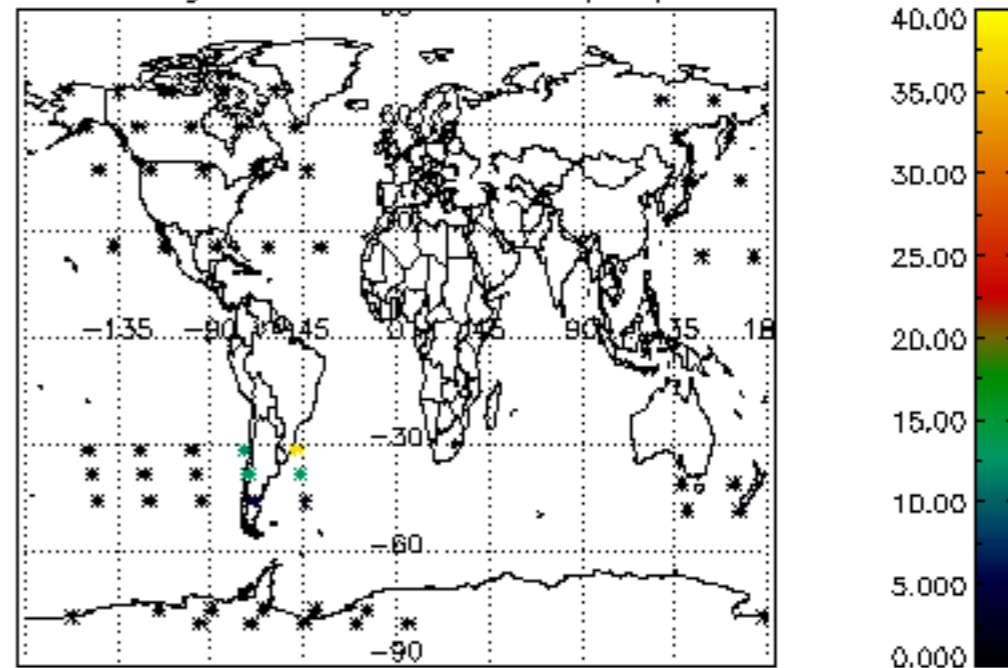
Percentage of datation errors per profile



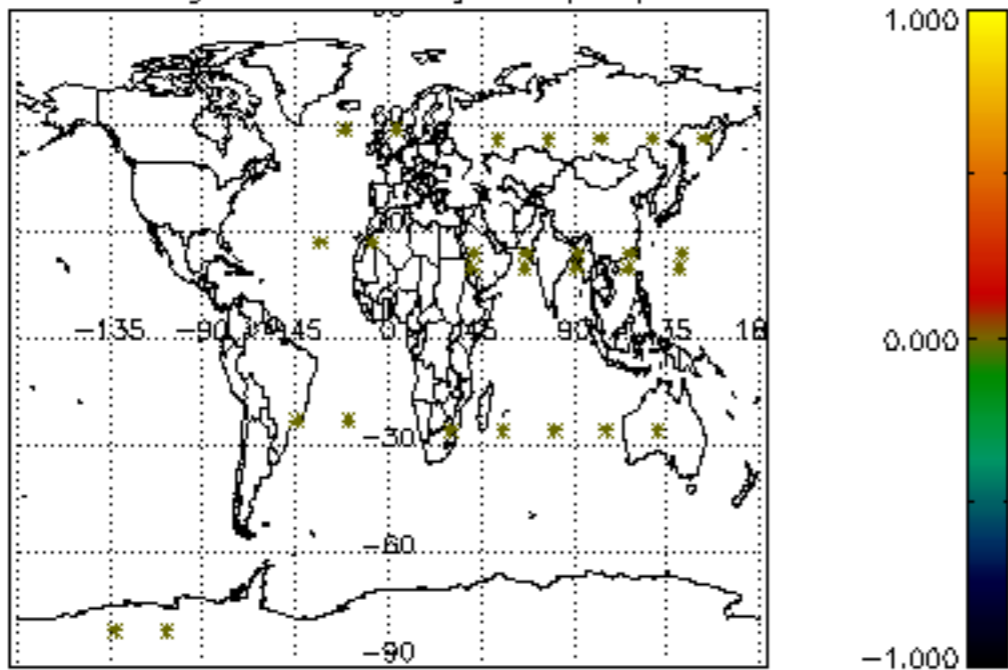
Percentage of star falling outside central band per profile



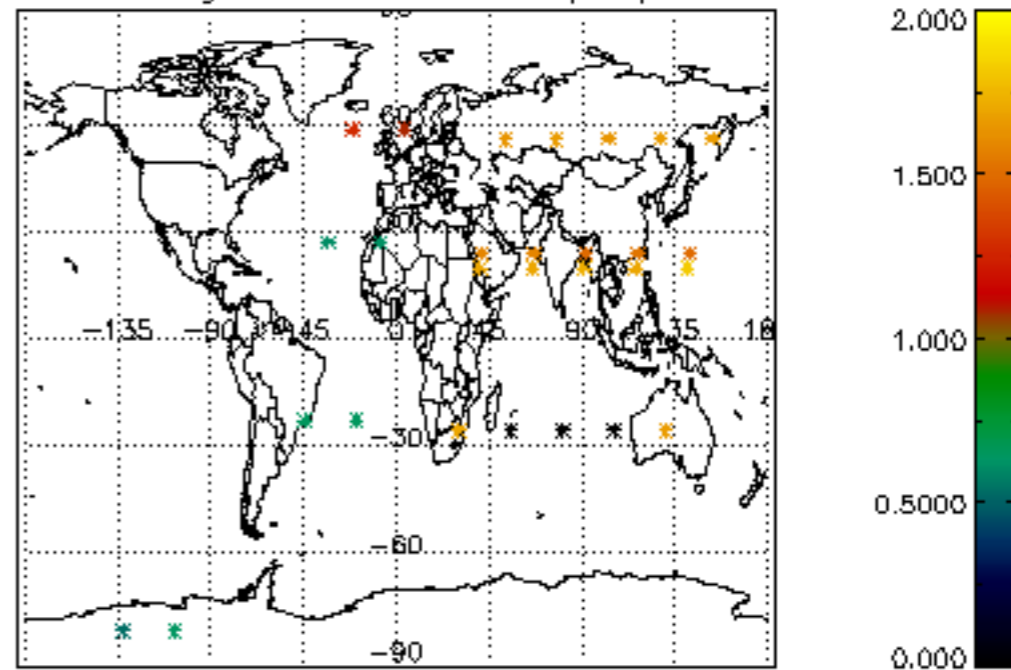
Percentage of saturation errors per profile



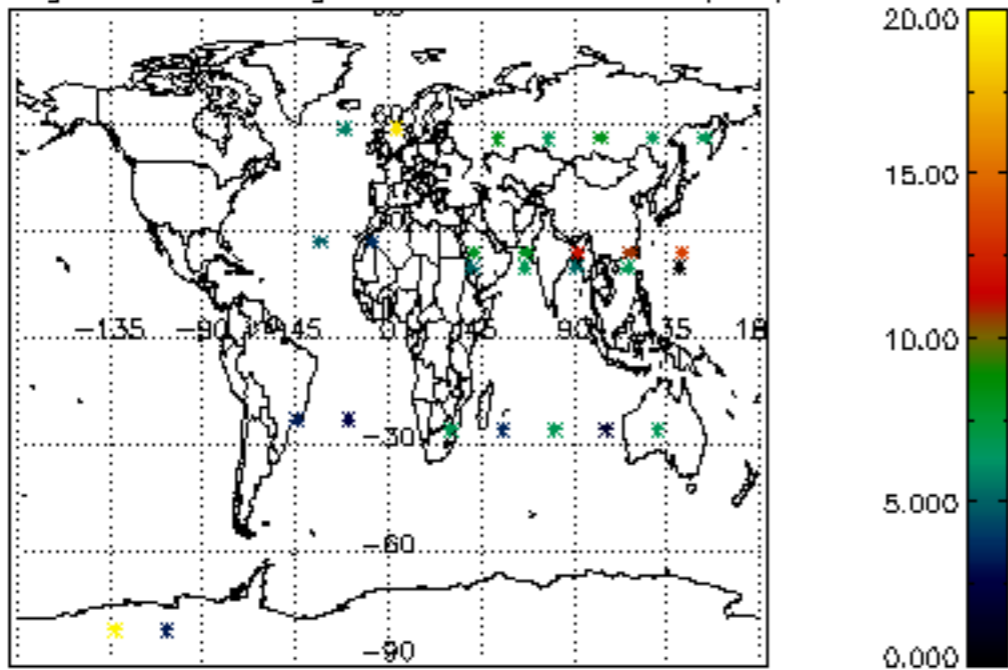
Percentage of cosmic ray hits per profile



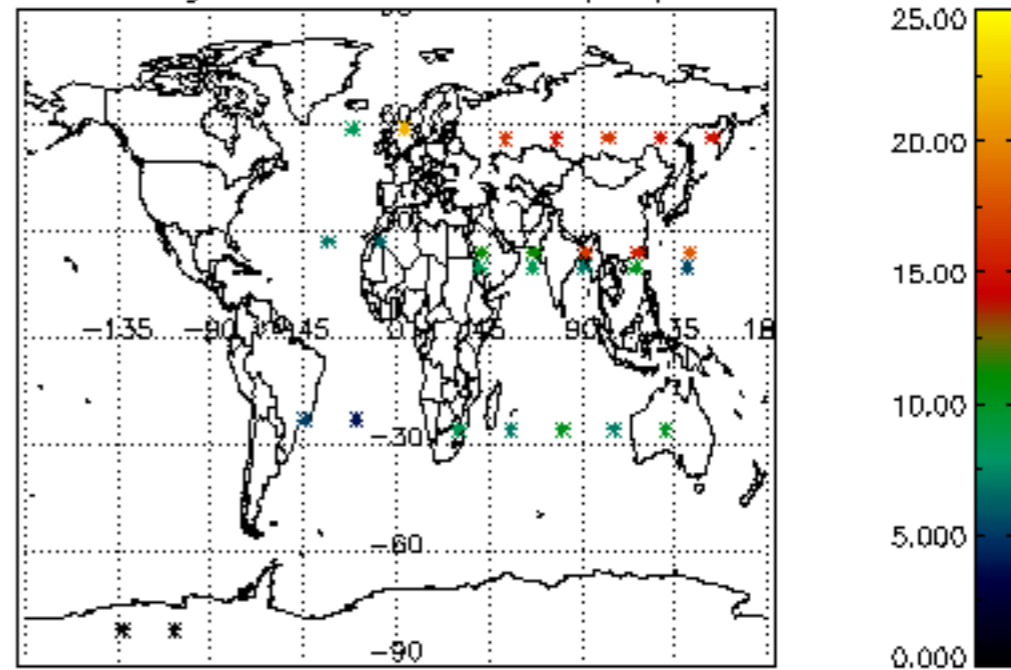
Percentage of datation errors per profile

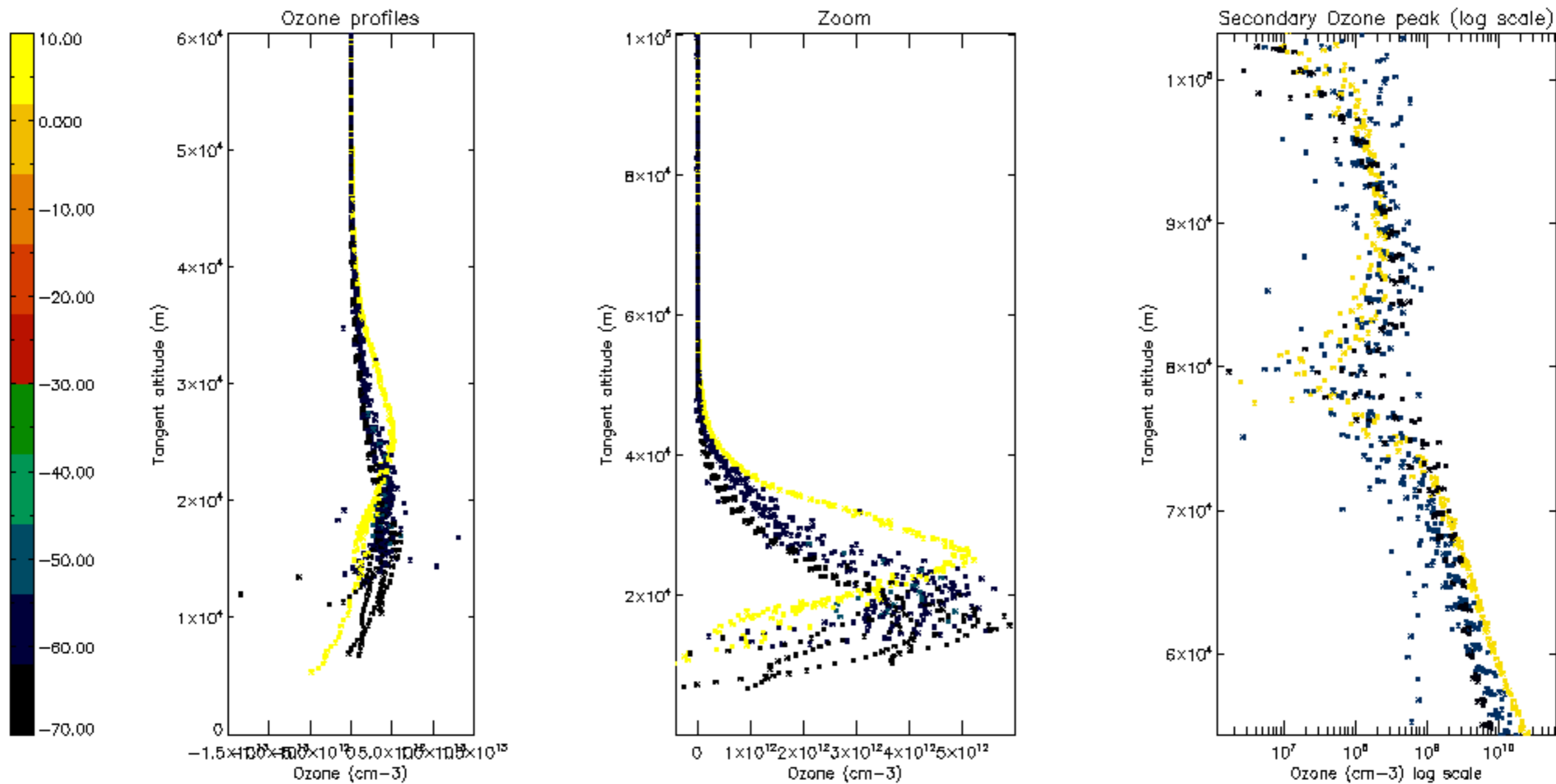


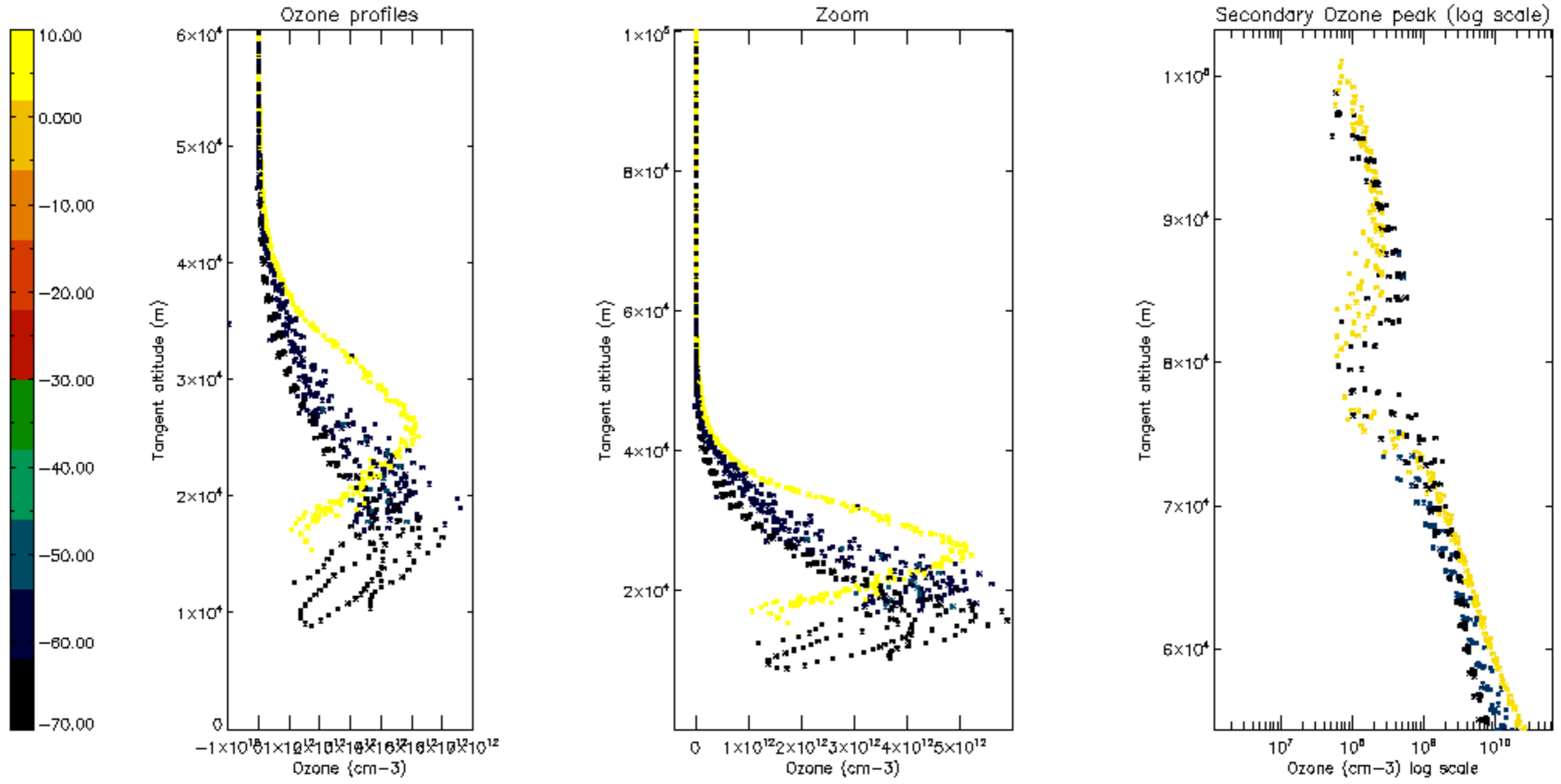
Percentage of star falling outside central band per profile

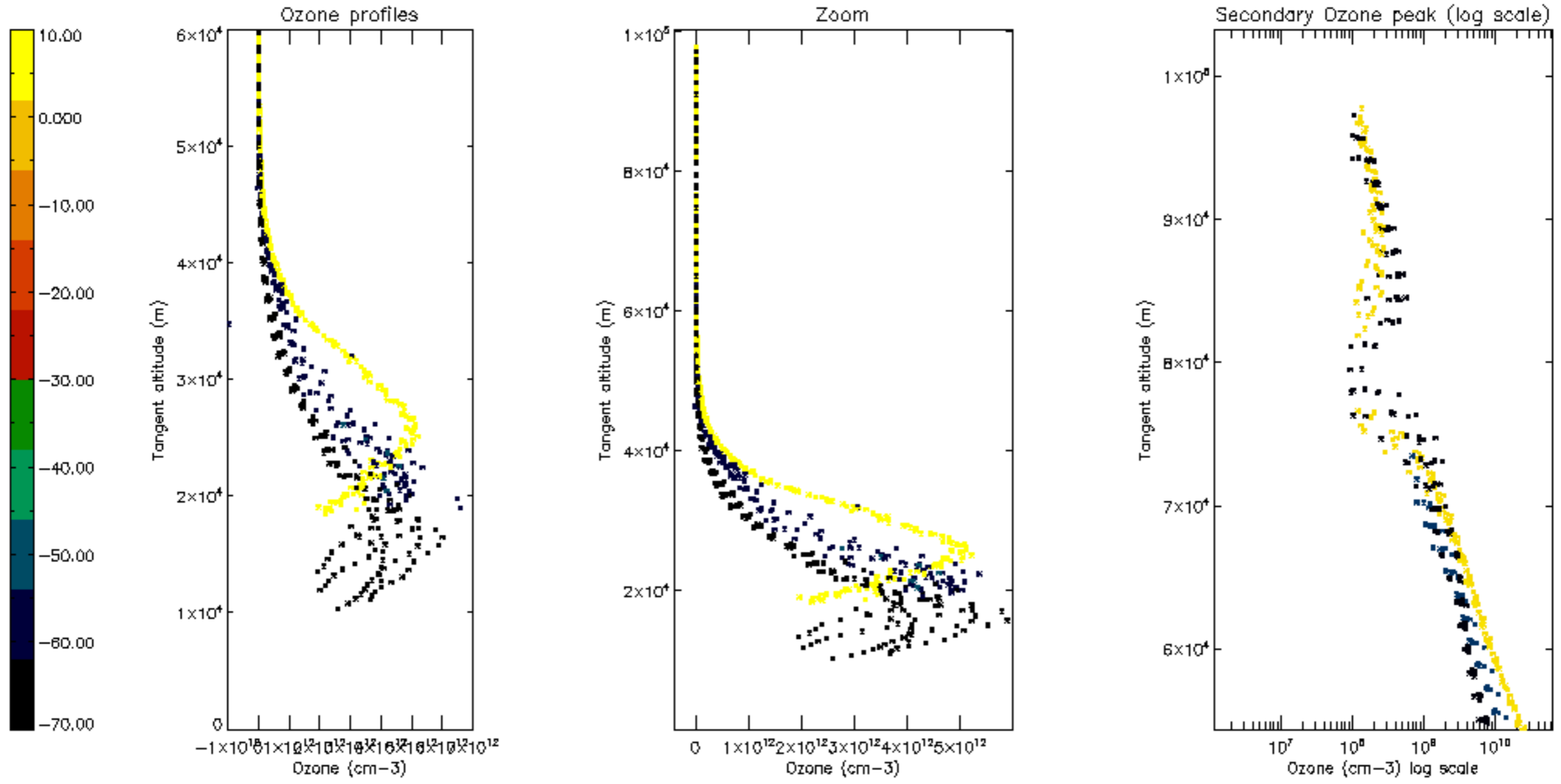


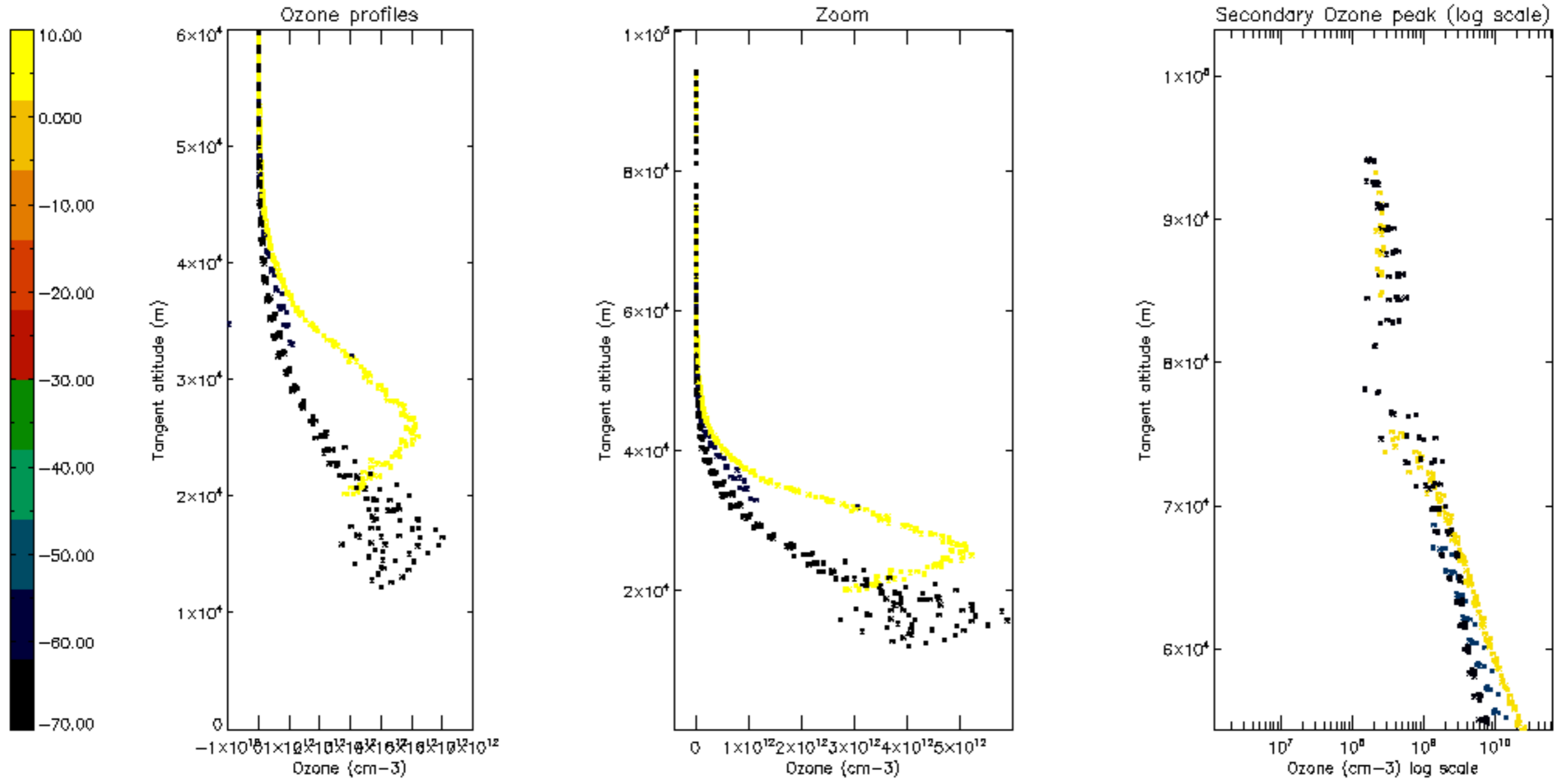
Percentage of saturation errors per profile

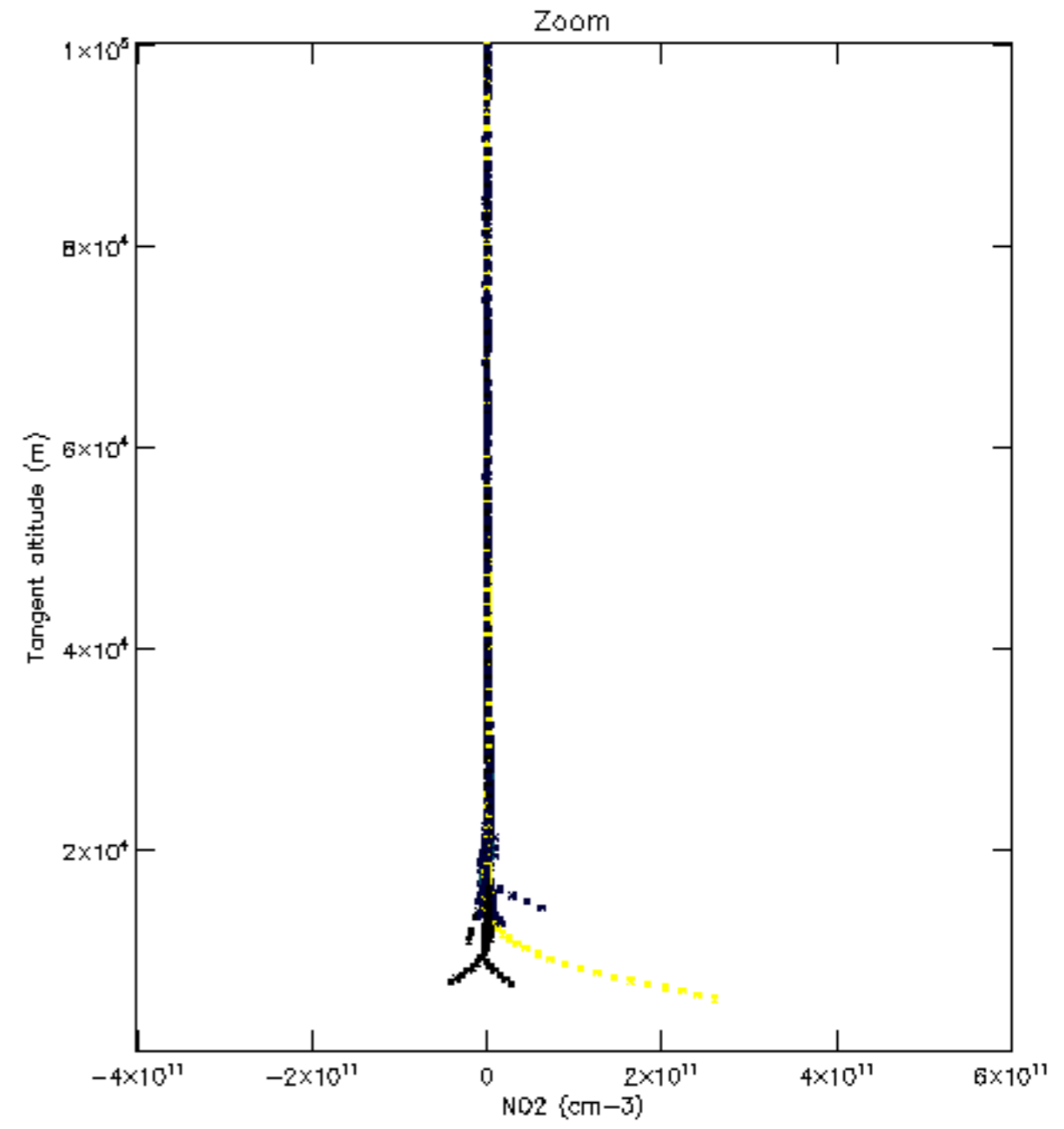
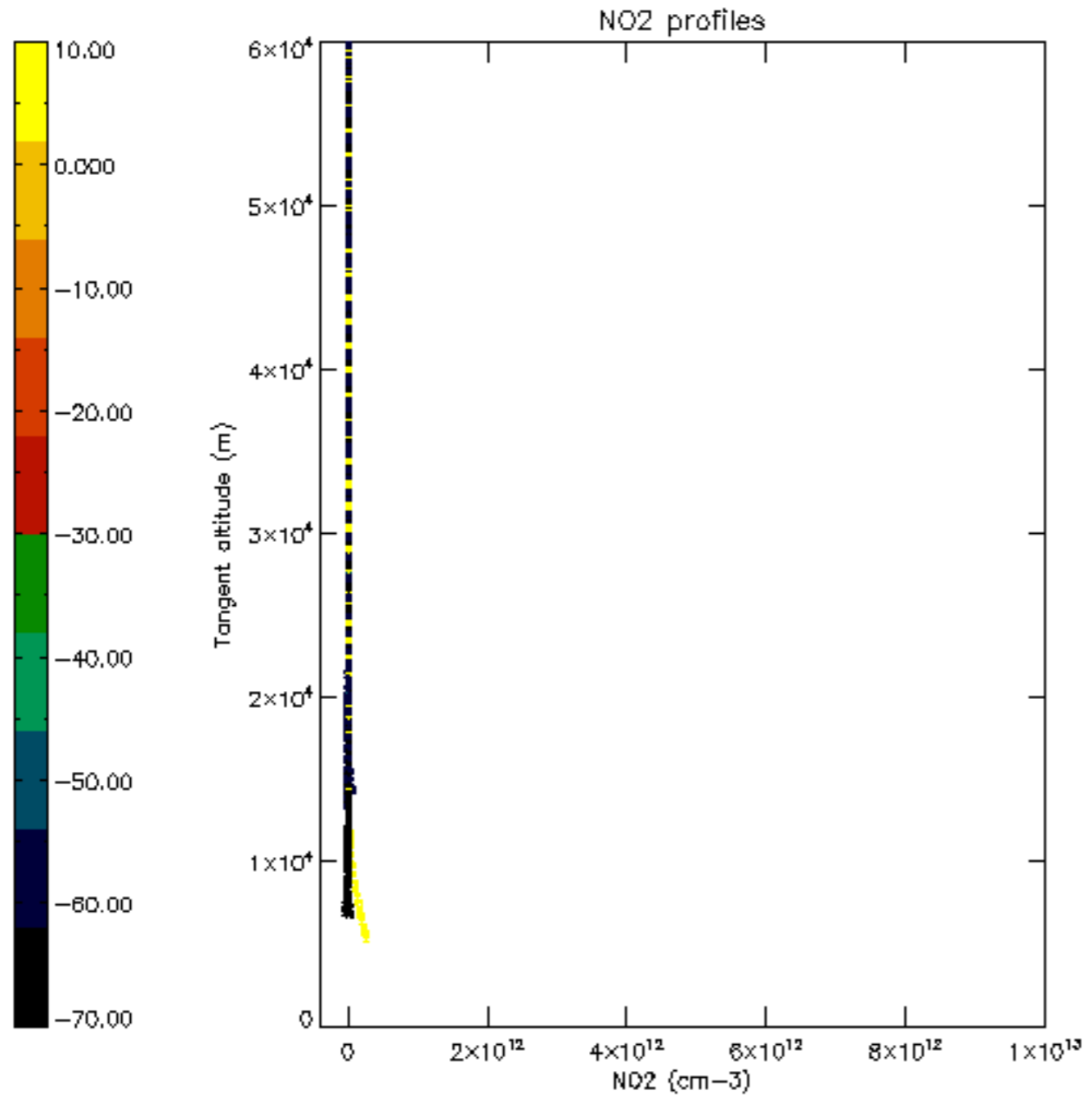


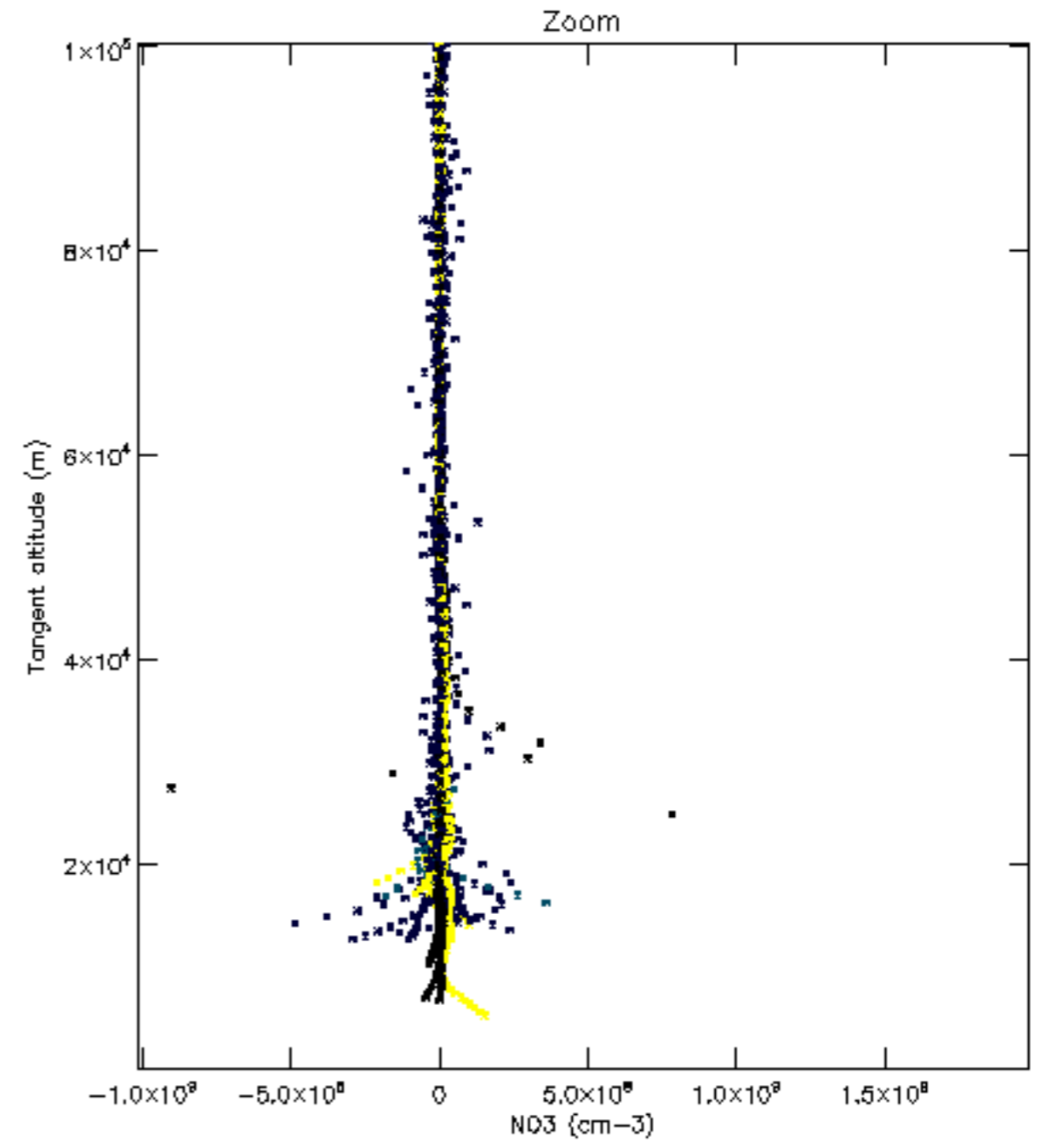
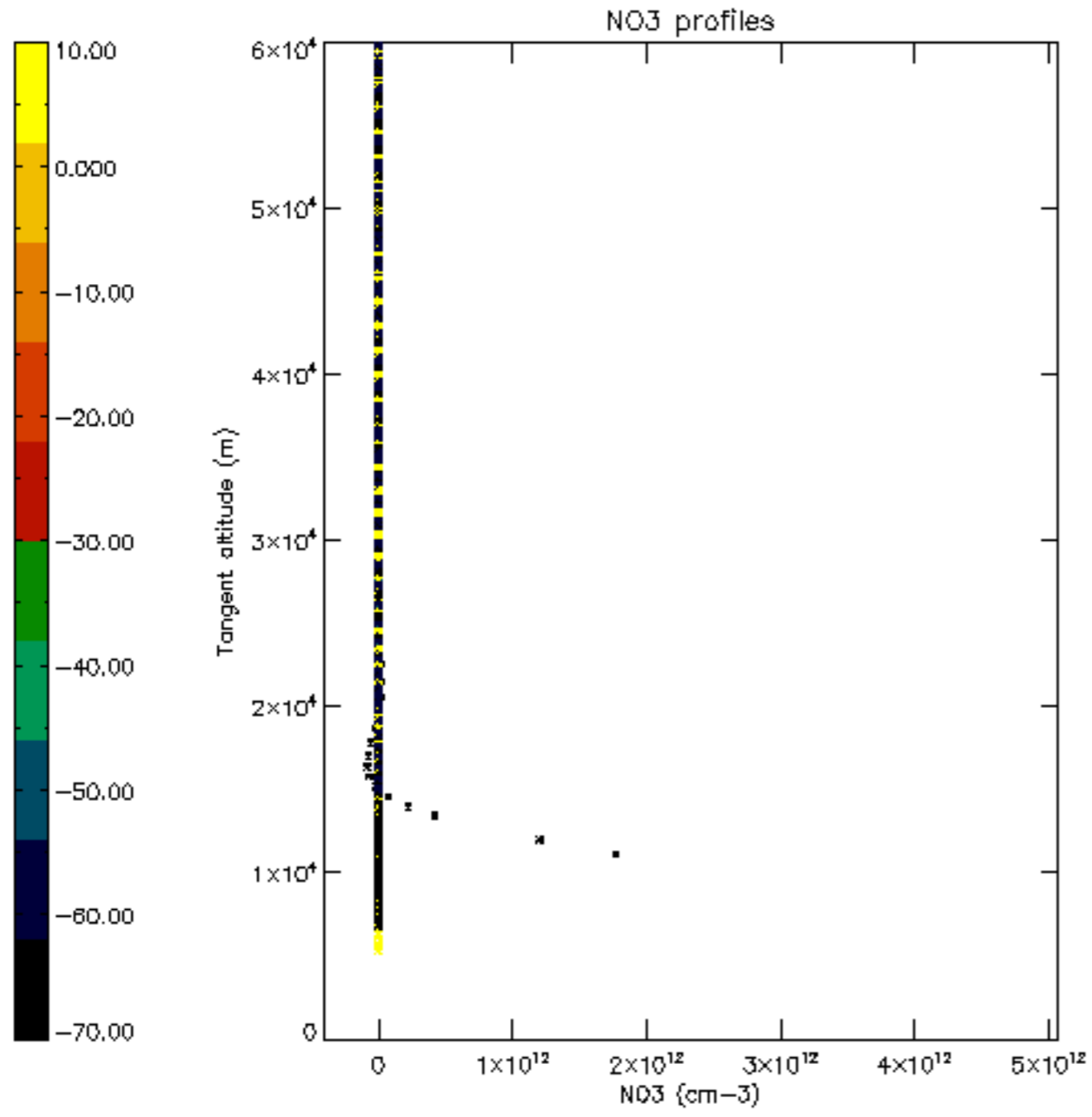


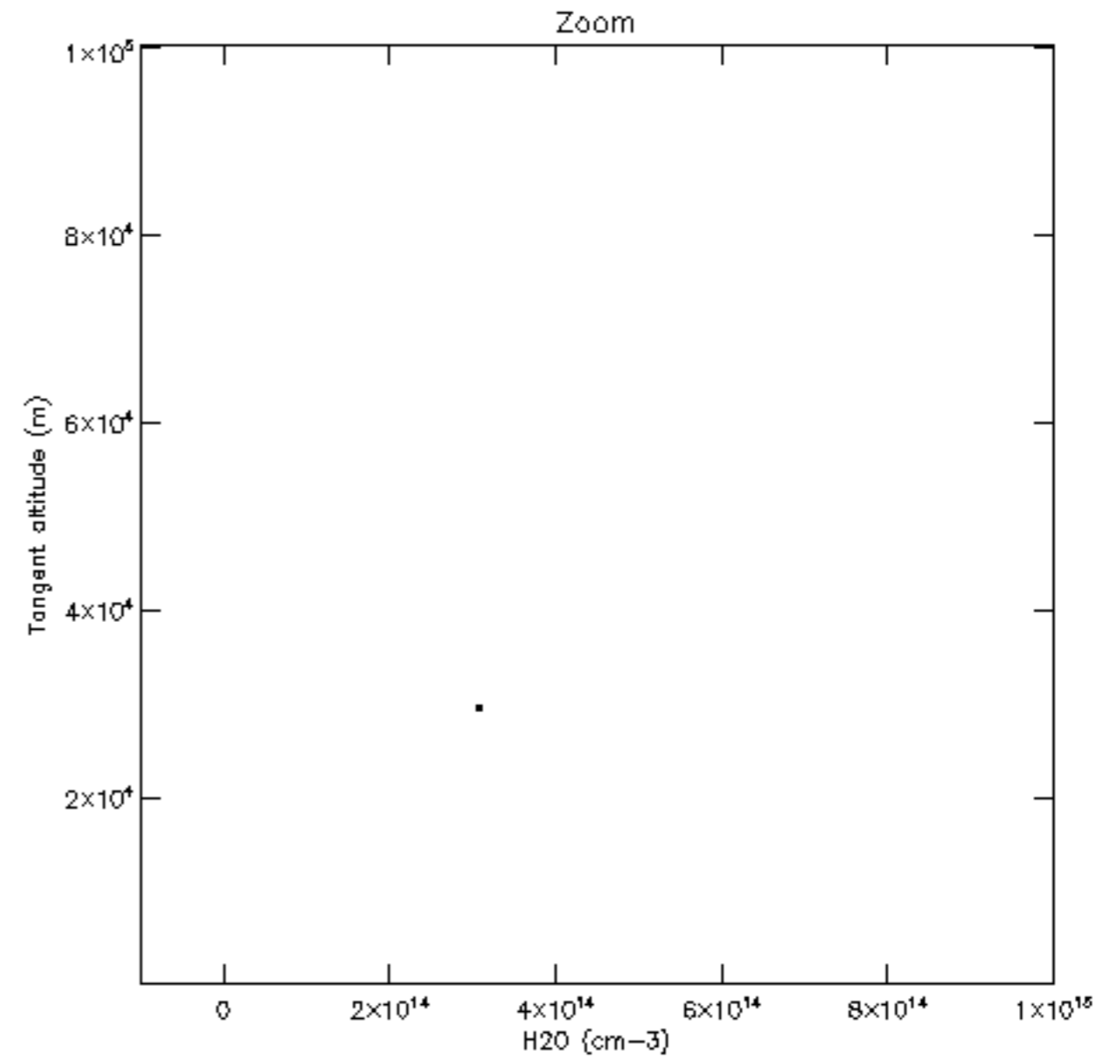
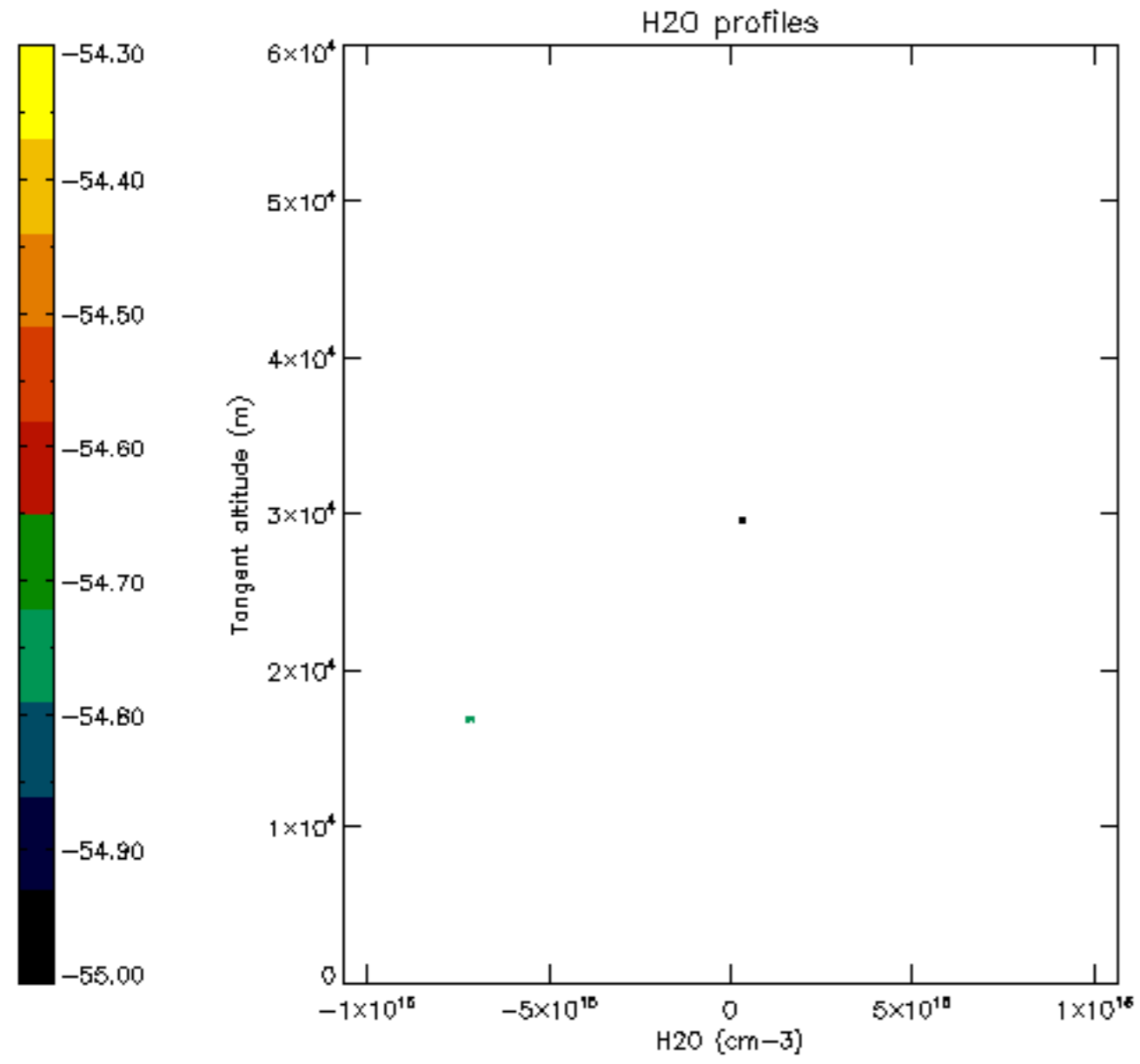


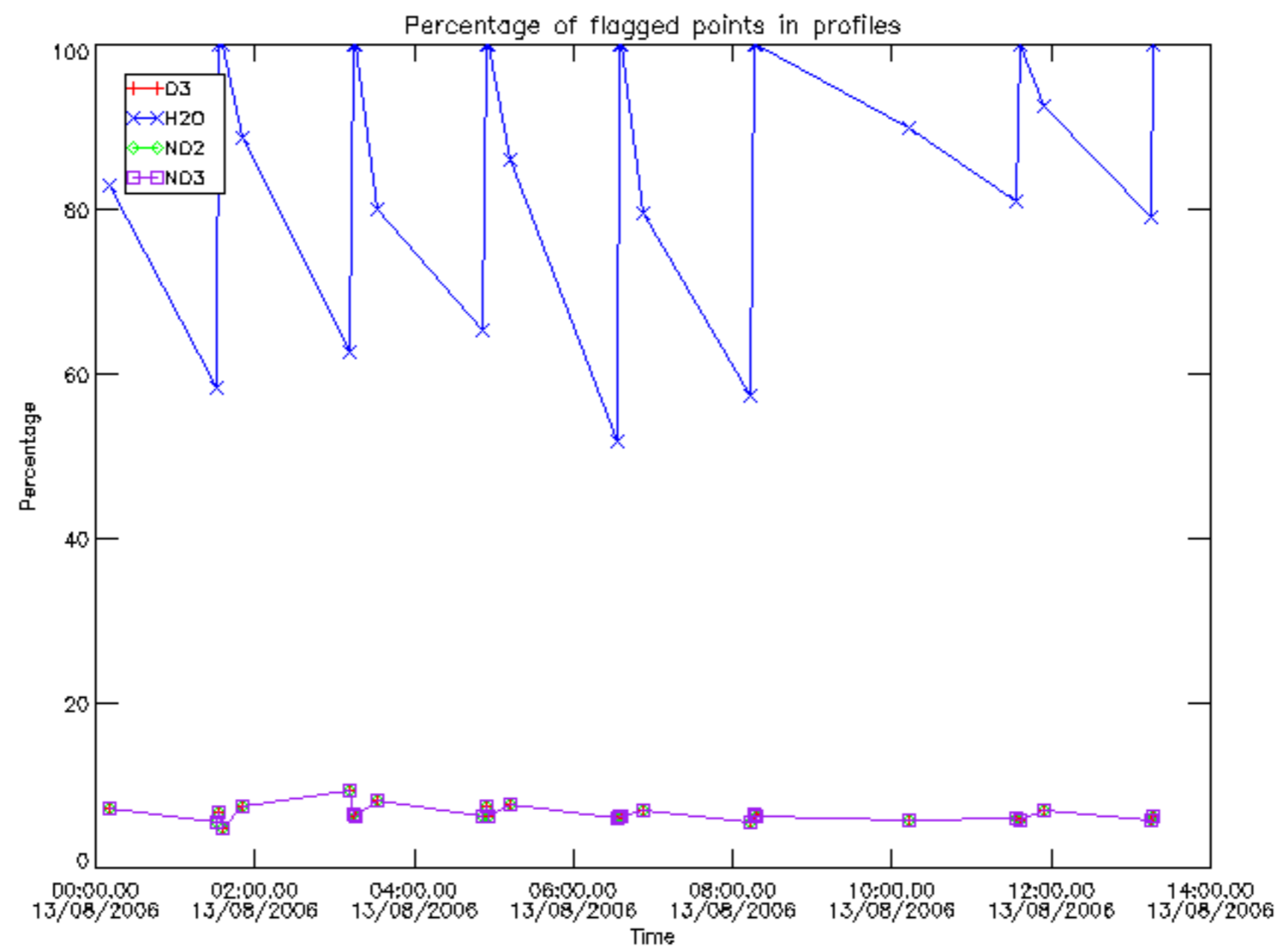




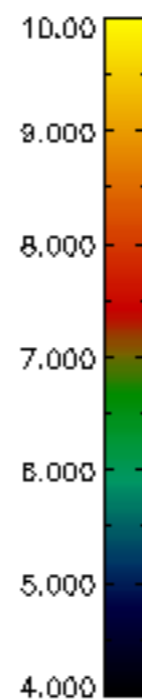
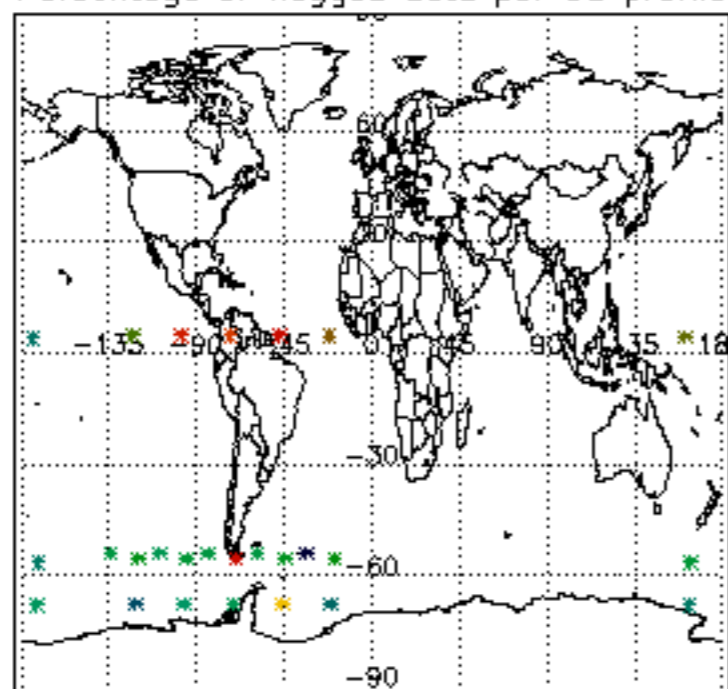




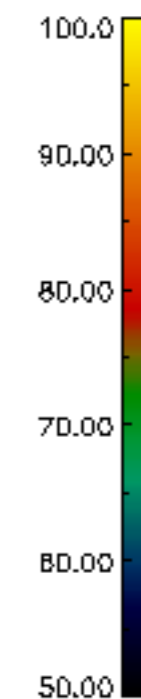
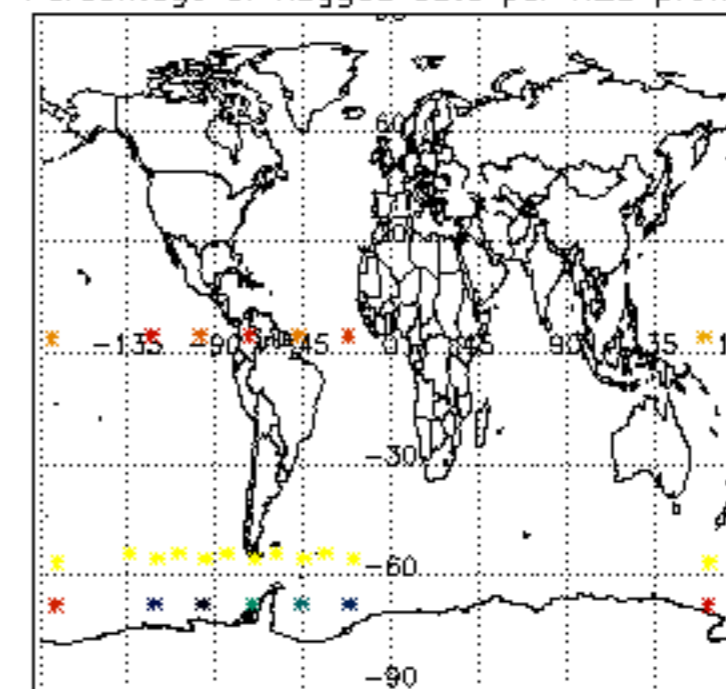




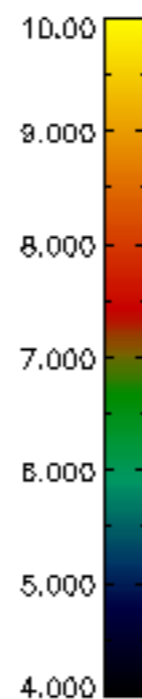
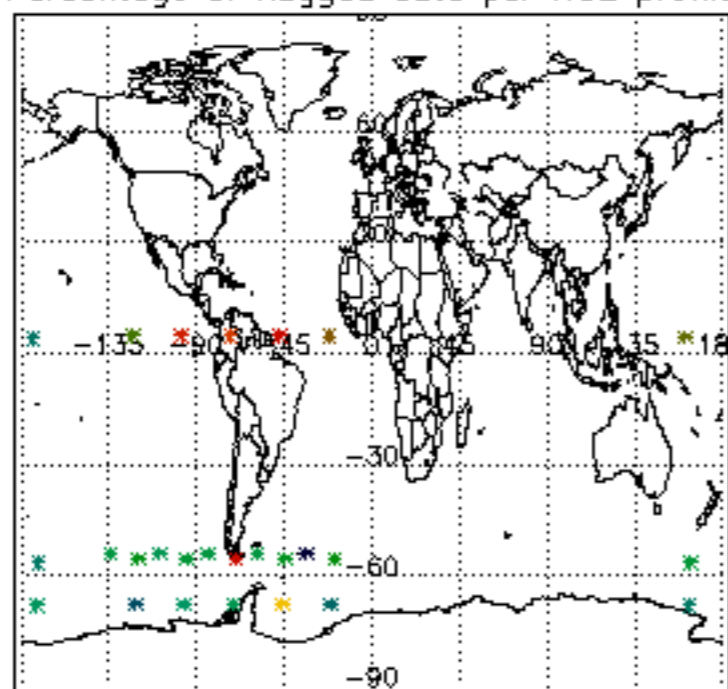
Percentage of flagged data per D3 profile



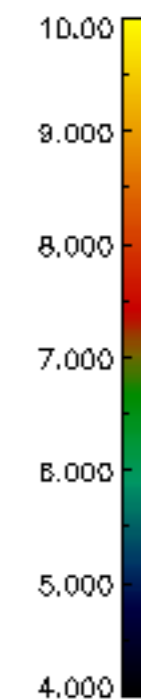
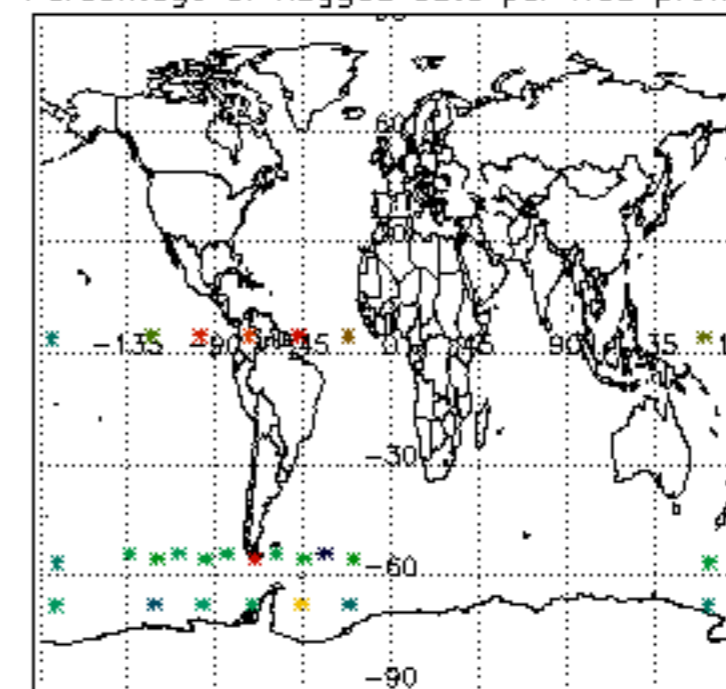
Percentage of flagged data per H2O profile

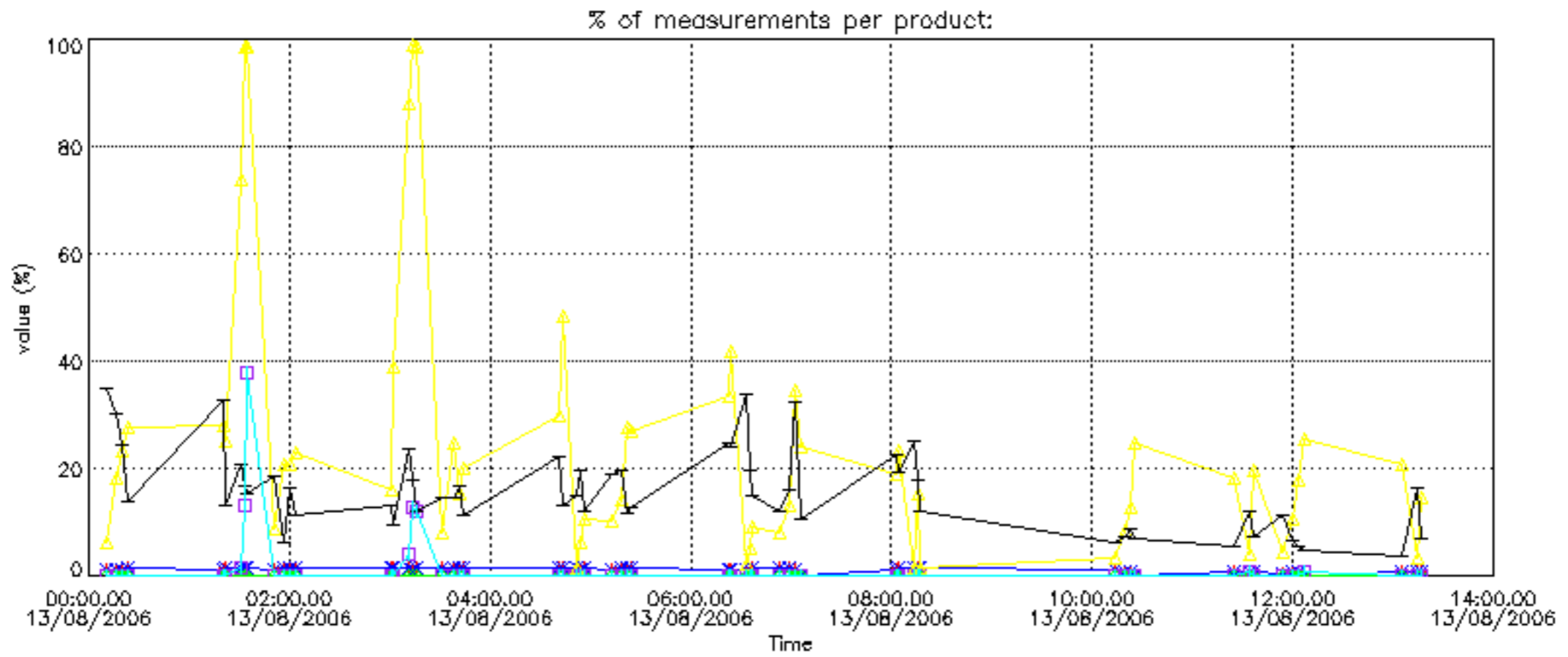


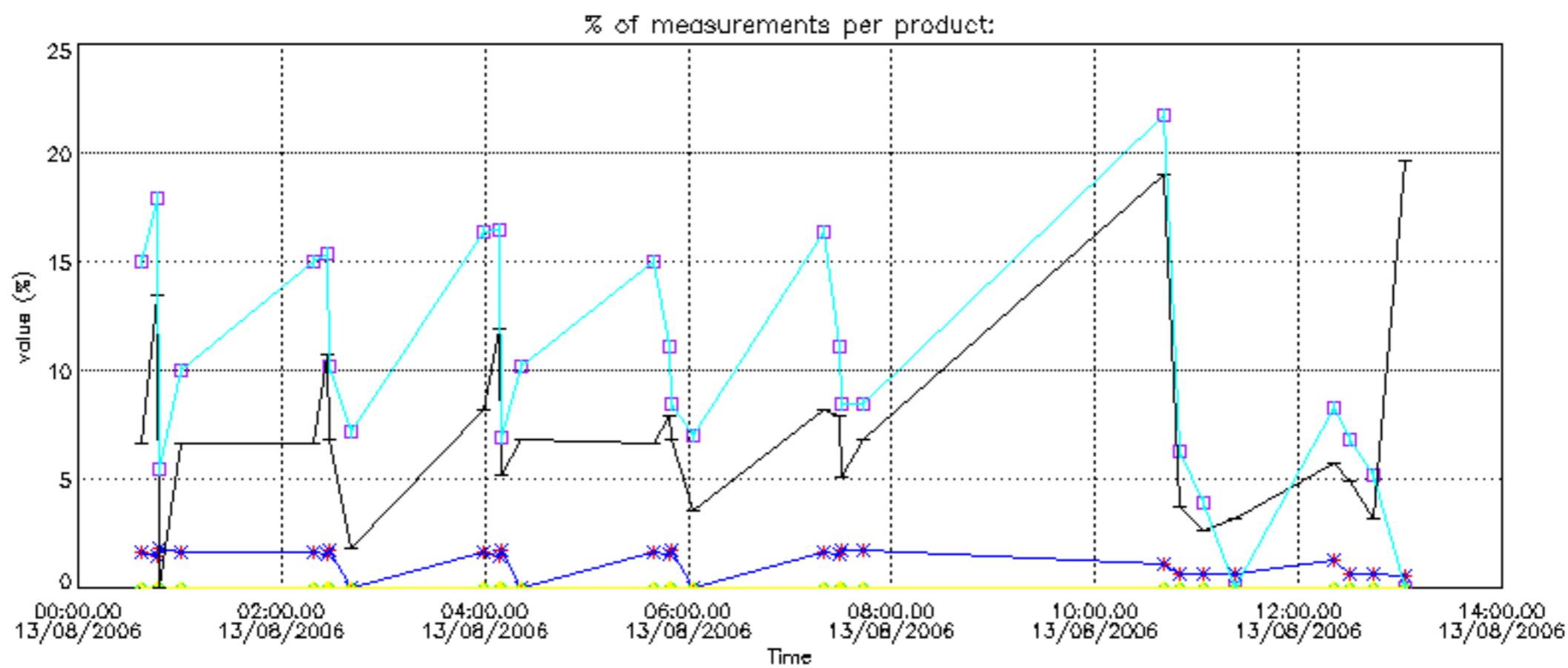
Percentage of flagged data per NO2 profile



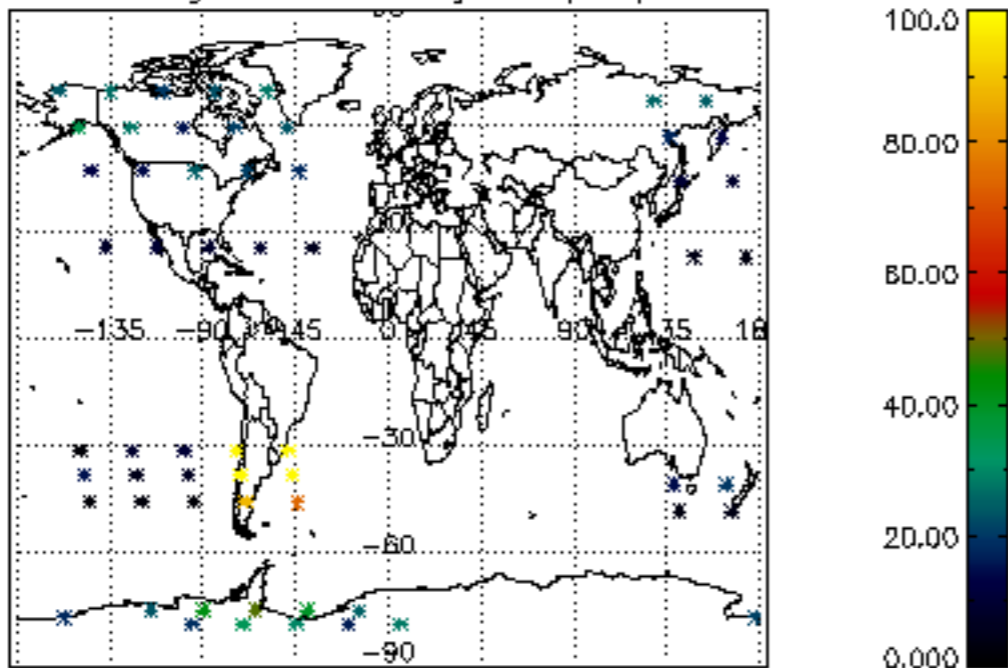
Percentage of flagged data per NO3 profile



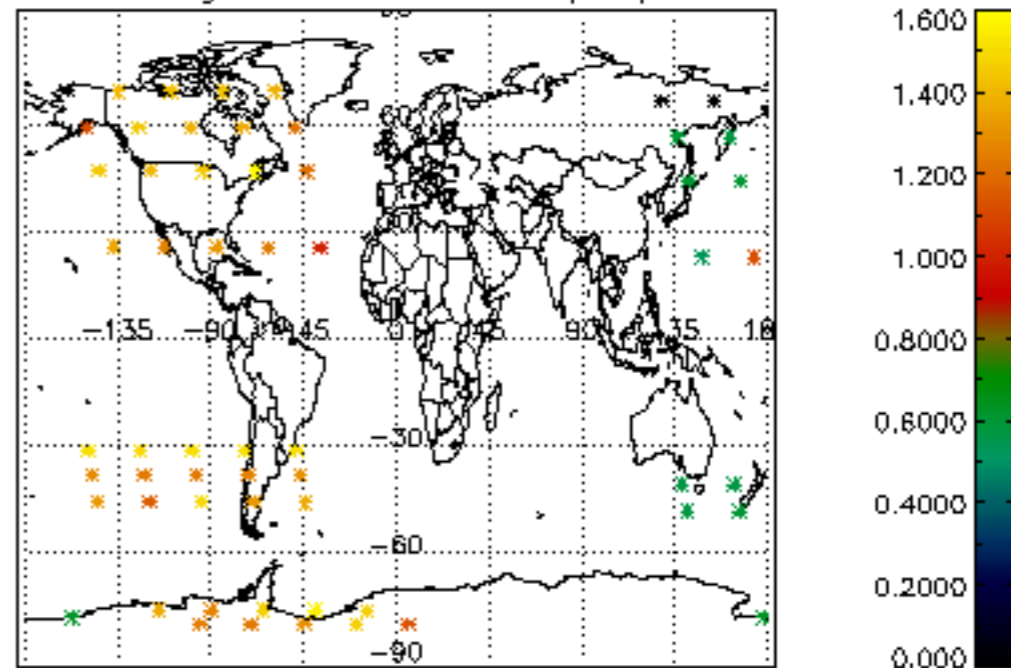




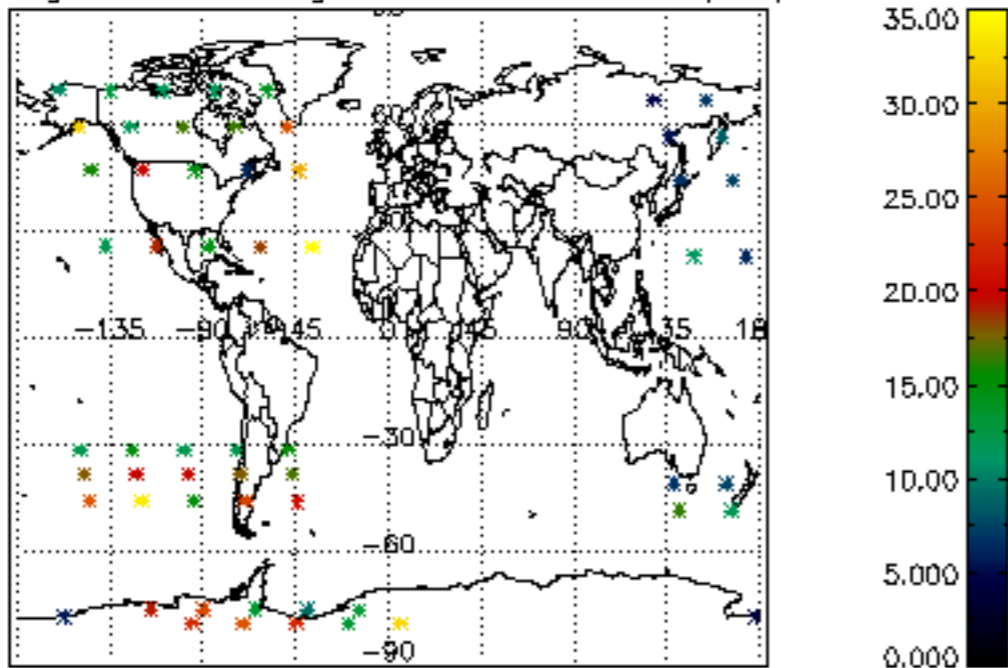
Percentage of cosmic ray hits per profile



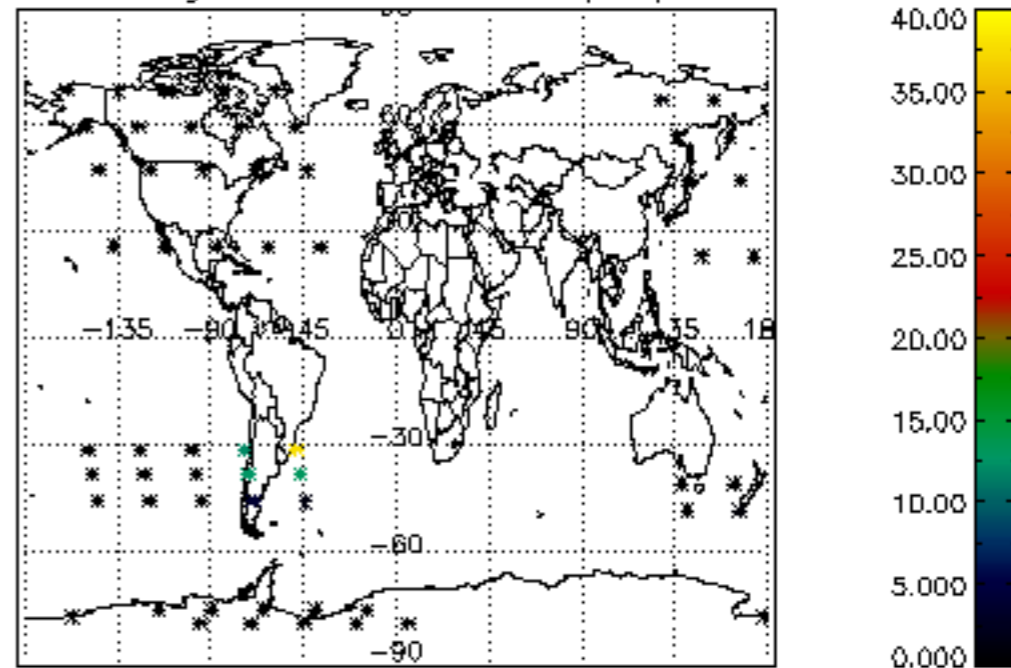
Percentage of datation errors per profile



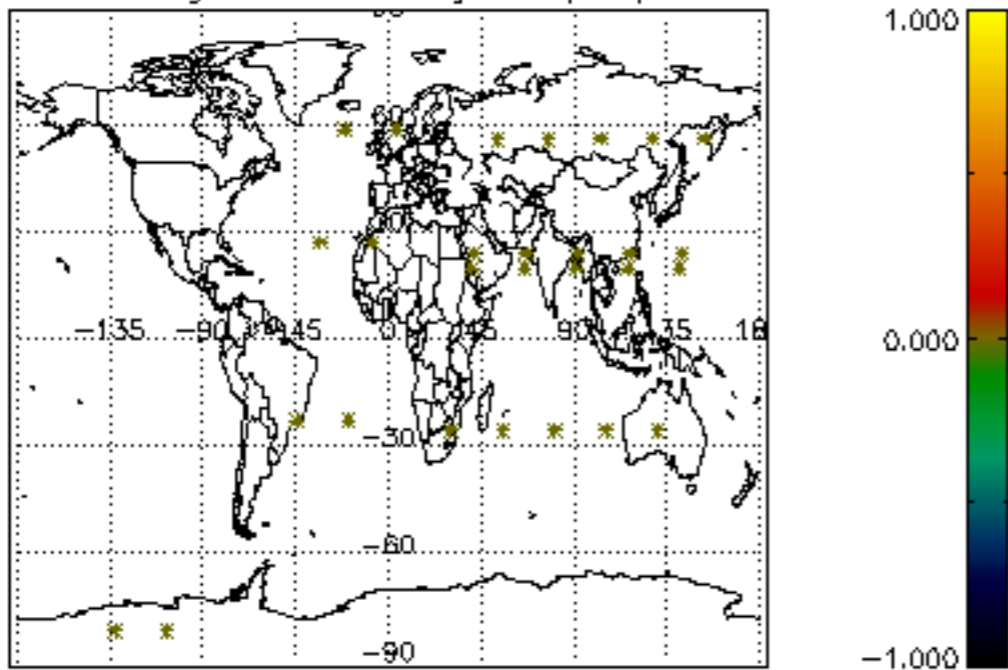
Percentage of star falling outside central band per profile



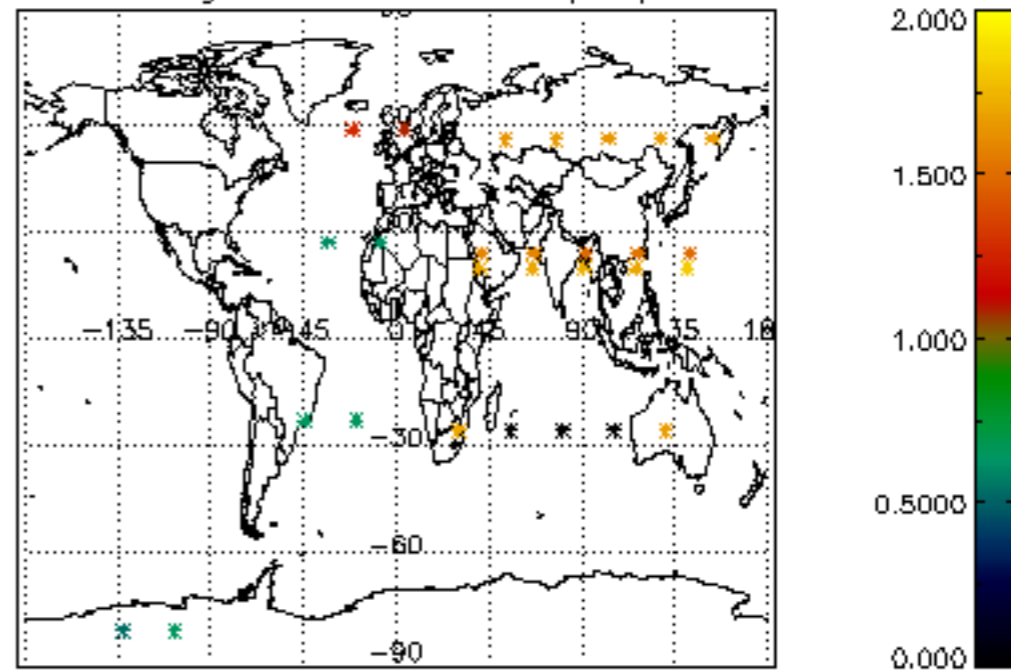
Percentage of saturation errors per profile



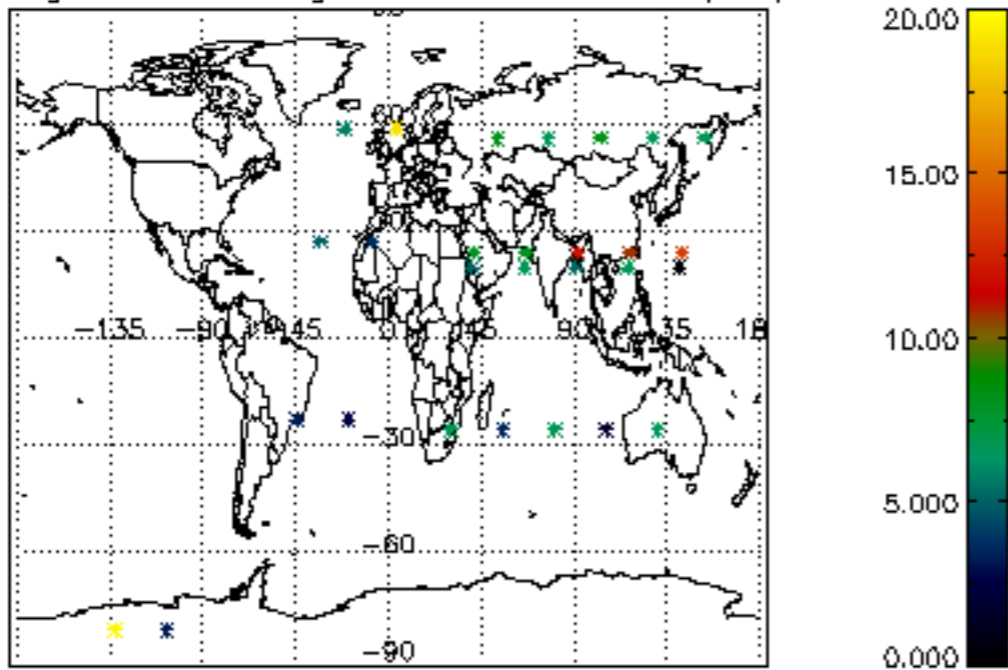
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

