

# 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	18APR2013 10:16:37
Data source version	GOMOS/6.01
Start time of products	01-08-2005 (01AUG2005 00:00:00)
Stop time of products	02-08-2005 (02AUG2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	115
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__2PRFIN20050801_000144_000000642039_00288_17877_5325.N1	01-AUG-2005 00:01:44	Bright	63.500	119	14Eta Dra	2.7270	4700.0	127	17877	No
2	GOM_NL__2PRFIN20050801_000554_000000612039_00288_17877_5326.N1	01-AUG-2005 00:05:54	Bright	61.000	60	7Bet UMi	2.0810	3950.0	122	17877	No
3	GOM_NL__2PRFIN20050801_003811_000000642039_00288_17877_5327.N1	01-AUG-2005 00:38:11	Dark	64.000	1	9Alp CMa	-1.4400	11000.	128	17877	No
4	GOM_NL__2PRFIN20050801_004816_000000692039_00288_17877_5328.N1	01-AUG-2005 00:48:16	Dark	69.000	2	Alp Car	-0.73600	7000.0	138	17877	No
5	GOM_NL__2PRFIN20050801_042028_000000372039_00291_17880_5342.N1	01-AUG-2005 04:20:28	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	17880	No
6	GOM_NL__2PRFIN20050801_042834_000000392039_00291_17880_5343.N1	01-AUG-2005 04:28:34	Straylight	38.500	45	Alp Pav	1.9400	26000.	77	17880	No
7	GOM_NL__2PRFIN20050801_043603_000000412039_00291_17880_5344.N1	01-AUG-2005 04:36:03	Bright	41.000	38	20Eps Sgr	1.8360	11000.	82	17880	No
8	GOM_NL__2PRFIN20050801_043800_000000372039_00291_17880_5345.N1	01-AUG-2005 04:38:00	Bright	36.500	57	34Sig Sgr	2.0660	26000.	73	17880	No
9	GOM_NL__2PRFIN20050801_043919_000000362039_00291_17880_5346.N1	01-AUG-2005 04:39:19	Bright	35.500	155	41Pi Sgr	2.9000	6600.0	71	17880	No
10	GOM_NL__2PRFIN20050801_045612_000000382039_00291_17880_5347.N1	01-AUG-2005 04:56:12	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	17880	No
11	GOM_NL__2PRFIN20050801_050000_000000372039_00291_17880_5348.N1	01-AUG-2005 05:00:00	Bright	36.500	69	33Gam Dra	2.2310	3800.0	73	17880	No
12	GOM_NL__2PRFIN20050801_050400_000000362039_00291_17880_5349.N1	01-AUG-2005 05:04:00	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	17880	No
13	GOM_NL__2PRFIN20050801_050809_000000362039_00291_17880_5350.N1	01-AUG-2005 05:08:09	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	17880	No
14	GOM_NL__2PRFIN20050801_054025_000000462039_00291_17880_5351.N1	01-AUG-2005 05:40:25	Dark	45.500	1	9Alp CMa	-1.4400	11000.	91	17880	No
15	GOM_NL__2PRFIN20050801_054419_000000382039_00291_17880_5352.N1	01-AUG-2005 05:44:19	Dark	37.500	177	1Zet CMa	3.0220	26000.	75	17880	No
16	GOM_NL__2PRFIN20050801_055031_000000492039_00291_17880_5353.N1	01-AUG-2005 05:50:31	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	17880	No
17	GOM_NL__2PRFIN20050801_060105_000000372039_00292_17881_5344.N1	01-AUG-2005 06:01:05	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	17881	No
18	GOM_NL__2PRFIN20050801_060910_000000392039_00292_17881_5345.N1	01-AUG-2005 06:09:10	Straylight	39.000	45	Alp Pav	1.9400	26000.	78	17881	No
19	GOM_NL__2PRFIN20050801_061639_000000442039_00292_17881_5346.N1	01-AUG-2005 06:16:39	Bright	43.500	38	20Eps Sgr	1.8360	11000.	87	17881	No
20	GOM_NL__2PRFIN20050801_061836_000000382039_00292_17881_5347.N1	01-AUG-2005 06:18:36	Bright	37.500	57	34Sig Sgr	2.0660	26000.	75	17881	No
21	GOM_NL__2PRFIN20050801_061955_000000372039_00292_17881_5348.N1	01-AUG-2005 06:19:55	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	17881	No
22	GOM_NL__2PRFIN20050801_063648_000000402039_00292_17881_5349.N1	01-AUG-2005 06:36:48	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	17881	No
23	GOM_NL__2PRFIN20050801_064036_000000372039_00292_17881_5350.N1	01-AUG-2005 06:40:36	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	17881	No
24	GOM_NL__2PRFIN20050801_064436_000000372039_00292_17881_5351.N1	01-AUG-2005 06:44:36	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	17881	No
25	GOM_NL__2PRFIN20050801_064845_000000372039_00292_17881_5352.N1	01-AUG-2005 06:48:45	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	17881	No
26	GOM_NL__2PRFIN20050801_072101_000000502039_00292_17881_5353.N1	01-AUG-2005 07:21:01	Dark	49.500	1	9Alp CMa	-1.4400	11000.	99	17881	No
27	GOM_NL__2PRFIN20050801_072455_000000392039_00292_17881_5354.N1	01-AUG-2005 07:24:55	Dark	38.500	177	1Zet CMa	3.0220	26000.	77	17881	No
28	GOM_NL__2PRFIN20050801_073107_000000512039_00292_17881_5355.N1	01-AUG-2005 07:31:07	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	17881	No
29	GOM_NL__2PRFIN20050801_074141_000000392039_00293_17882_5944.N1	01-AUG-2005 07:41:41	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	17882	No
30	GOM_NL__2PRFIN20050801_074946_000000382039_00293_17882_5945.N1	01-AUG-2005 07:49:46	Straylight	37.500	45	Alp Pav	1.9400	26000.	75	17882	No
31	GOM_NL__2PRFIN20050801_075715_000000392039_00293_17882_5946.N1	01-AUG-2005 07:57:15	Bright	39.000	38	20Eps Sgr	1.8360	11000.	78	17882	No
32	GOM_NL__2PRFIN20050801_075912_000000382039_00293_17882_5947.N1	01-AUG-2005 07:59:12	Bright	37.500	57	34Sig Sgr	2.0660	26000.	75	17882	No
33	GOM_NL__2PRFIN20050801_080031_000000362039_00293_17882_5948.N1	01-AUG-2005 08:00:31	Bright	35.500	155	41Pi Sgr	2.9000	6600.0	71	17882	No
34	GOM_NL__2PRFIN20050801_113836_000000362039_00295_17884_5947.N1	01-AUG-2005 11:38:36	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	17884	No
35	GOM_NL__2PRFIN20050801_114224_000000382039_00295_17884_5948.N1	01-AUG-2005 11:42:24	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	17884	No
36	GOM_NL__2PRFIN20050801_114625_000000362039_00295_17884_5949.N1	01-AUG-2005 11:46:25	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	17884	No
37	GOM_NL__2PRFIN20050801_115034_000000332039_00295_17884_5950.N1	01-AUG-2005 11:50:34	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	17884	No
38	GOM_NL__2PRFIN20050801_122249_000000342039_00295_17884_5951.N1	01-AUG-2005 12:22:49	Dark	33.500	1	9Alp CMa	-1.4400	11000.	67	17884	No
39	GOM_NL__2PRFIN20050801_122643_000000382039_00295_17884_5952.N1	01-AUG-2005 12:26:43	Dark	38.000	177	1Zet CMa	3.0220	26000.	76	17884	No
40	GOM_NL__2PRFIN20050801_123254_000000512039_00295_17884_5953.N1	01-AUG-2005 12:32:54	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	17884	No
41	GOM_NL__2PRFIN20050801_124329_000000372039_00296_17885_5698.N1	01-AUG-2005 12:43:29	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	17885	No
42	GOM_NL__2PRFIN20050801_125135_000000392039_00296_17885_5699.N1	01-AUG-2005 12:51:35	Straylight	39.000	45	Alp Pav	1.9400	26000.	78	17885	No

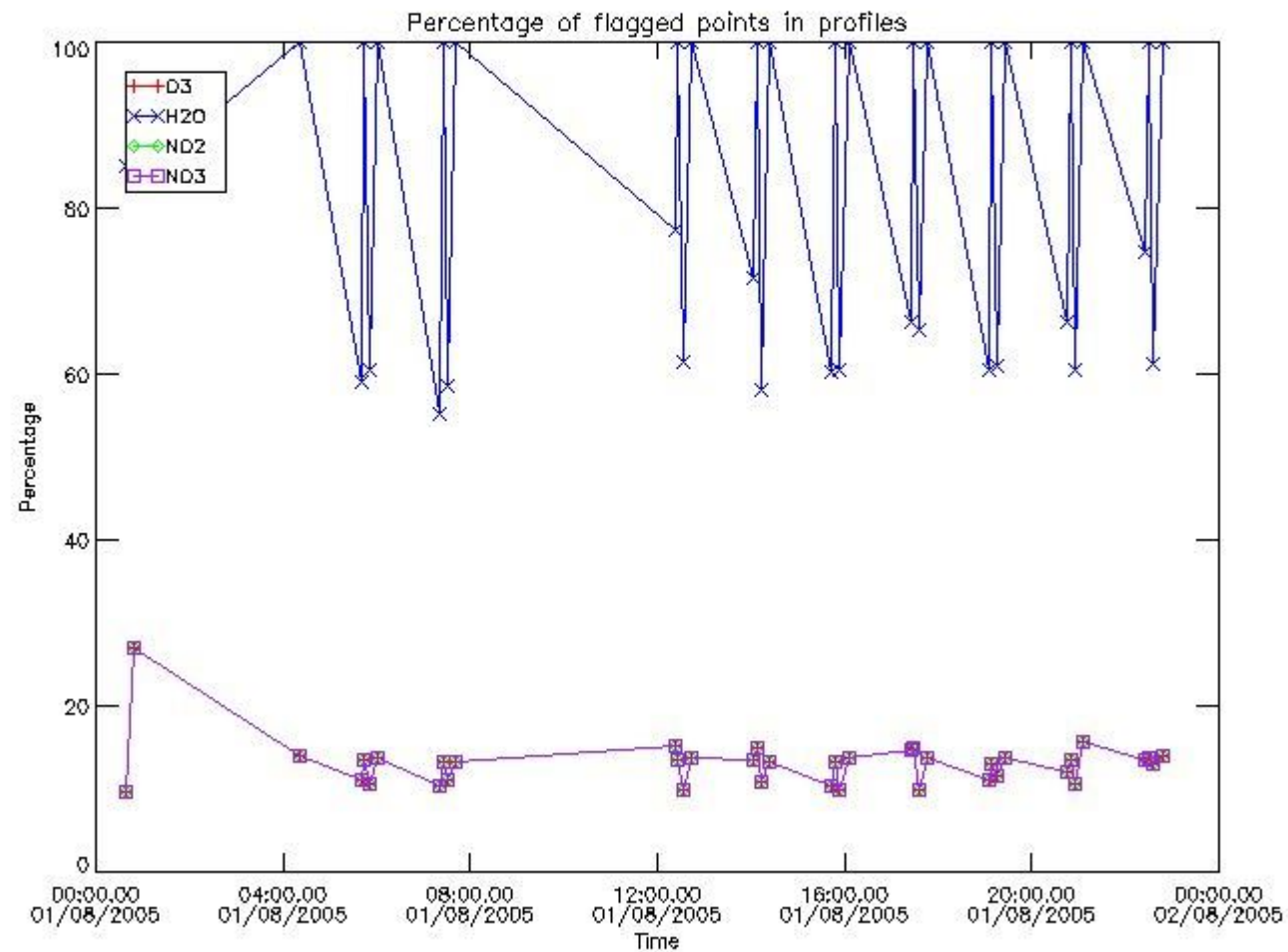
43	GOM_NL__2PRFIN20050801_125903_000000422039_00296_17885_5700.N1	01-AUG-2005 12:59:03	Bright	41.500	38	20Eps Sgr	1.8360	11000.	83	17885	No
44	GOM_NL__2PRFIN20050801_130100_000000392039_00296_17885_5701.N1	01-AUG-2005 13:01:00	Bright	38.500	57	34Sig Sgr	2.0660	26000.	77	17885	No
45	GOM_NL__2PRFIN20050801_130219_000000382039_00296_17885_5702.N1	01-AUG-2005 13:02:19	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	17885	No
46	GOM_NL__2PRFIN20050801_131912_000000402039_00296_17885_5703.N1	01-AUG-2005 13:19:12	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	17885	No
47	GOM_NL__2PRFIN20050801_132300_000000392039_00296_17885_5704.N1	01-AUG-2005 13:23:00	Bright	38.500	69	33Gam Dra	2.2310	3800.0	77	17885	No
48	GOM_NL__2PRFIN20050801_132701_000000372039_00296_17885_5705.N1	01-AUG-2005 13:27:01	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	17885	No
49	GOM_NL__2PRFIN20050801_133110_000000332039_00296_17885_5706.N1	01-AUG-2005 13:31:10	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	17885	No
50	GOM_NL__2PRFIN20050801_140325_000000382039_00296_17885_5707.N1	01-AUG-2005 14:03:25	Dark	37.500	1	9Alp CMa	-1.4400	11000.	75	17885	No
51	GOM_NL__2PRFIN20050801_140719_000000382039_00296_17885_5708.N1	01-AUG-2005 14:07:19	Dark	37.500	177	1Zet CMa	3.0220	26000.	75	17885	No
52	GOM_NL__2PRFIN20050801_141330_000000472039_00296_17885_5709.N1	01-AUG-2005 14:13:30	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	17885	No
53	GOM_NL__2PRFIN20050801_142405_000000392039_00297_17886_5699.N1	01-AUG-2005 14:24:05	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	17886	No
54	GOM_NL__2PRFIN20050801_143211_000000382039_00297_17886_5700.N1	01-AUG-2005 14:32:11	Straylight	38.000	45	Alp Pav	1.9400	26000.	76	17886	No
55	GOM_NL__2PRFIN20050801_144032_000000402039_00297_17886_5701.N1	01-AUG-2005 14:40:32	Bright	39.500	103	38Zet Sgr	2.6000	9700.0	79	17886	No
56	GOM_NL__2PRFIN20050801_144255_000000372039_00297_17886_5702.N1	01-AUG-2005 14:42:55	Bright	36.500	155	41Pi Sgr	2.9000	6600.0	73	17886	No
57	GOM_NL__2PRFIN20050801_145948_000000342039_00297_17886_5703.N1	01-AUG-2005 14:59:48	Bright	34.000	5	3Alp Lyr	0.033000	11000.	68	17886	No
58	GOM_NL__2PRFIN20050801_150336_000000342039_00297_17886_5704.N1	01-AUG-2005 15:03:36	Bright	33.500	69	33Gam Dra	2.2310	3800.0	67	17886	No
59	GOM_NL__2PRFIN20050801_150737_000000372039_00297_17886_5705.N1	01-AUG-2005 15:07:37	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	17886	No
60	GOM_NL__2PRFIN20050801_151146_000000352039_00297_17886_5706.N1	01-AUG-2005 15:11:46	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	17886	No
61	GOM_NL__2PRFIN20050801_154402_000000502039_00297_17886_5707.N1	01-AUG-2005 15:44:02	Dark	49.500	1	9Alp CMa	-1.4400	11000.	99	17886	No
62	GOM_NL__2PRFIN20050801_154756_000000392039_00297_17886_5708.N1	01-AUG-2005 15:47:56	Dark	38.500	177	1Zet CMa	3.0220	26000.	77	17886	No
63	GOM_NL__2PRFIN20050801_155407_000000512039_00297_17886_5709.N1	01-AUG-2005 15:54:07	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	17886	No
64	GOM_NL__2PRFIN20050801_160442_000000372039_00298_17887_5354.N1	01-AUG-2005 16:04:42	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	17887	No
65	GOM_NL__2PRFIN20050801_161247_000000392039_00298_17887_5355.N1	01-AUG-2005 16:12:47	Straylight	38.500	45	Alp Pav	1.9400	26000.	77	17887	No
66	GOM_NL__2PRFIN20050801_162108_000000502039_00298_17887_5356.N1	01-AUG-2005 16:21:08	Bright	49.500	103	38Zet Sgr	2.6000	9700.0	99	17887	No
67	GOM_NL__2PRFIN20050801_162331_000000372039_00298_17887_5357.N1	01-AUG-2005 16:23:31	Bright	36.500	155	41Pi Sgr	2.9000	6600.0	73	17887	No
68	GOM_NL__2PRFIN20050801_164024_000000382039_00298_17887_5358.N1	01-AUG-2005 16:40:24	Bright	38.000	5	3Alp Lyr	0.033000	11000.	76	17887	No
69	GOM_NL__2PRFIN20050801_164412_000000372039_00298_17887_5359.N1	01-AUG-2005 16:44:12	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	17887	No
70	GOM_NL__2PRFIN20050801_164814_000000382039_00298_17887_5360.N1	01-AUG-2005 16:48:14	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	17887	No
71	GOM_NL__2PRFIN20050801_165222_000000362039_00298_17887_5361.N1	01-AUG-2005 16:52:22	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	17887	No
72	GOM_NL__2PRFIN20050801_172438_000000452039_00298_17887_5362.N1	01-AUG-2005 17:24:38	Dark	45.000	1	9Alp CMa	-1.4400	11000.	90	17887	No
73	GOM_NL__2PRFIN20050801_172832_000000382039_00298_17887_5363.N1	01-AUG-2005 17:28:32	Dark	37.500	177	1Zet CMa	3.0220	26000.	75	17887	No
74	GOM_NL__2PRFIN20050801_173443_000000512039_00298_17887_5364.N1	01-AUG-2005 17:34:43	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	17887	No
75	GOM_NL__2PRFIN20050801_174518_000000372039_00299_17888_5356.N1	01-AUG-2005 17:45:18	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	17888	No
76	GOM_NL__2PRFIN20050801_175323_000000372039_00299_17888_5357.N1	01-AUG-2005 17:53:23	Straylight	36.500	45	Alp Pav	1.9400	26000.	73	17888	No
77	GOM_NL__2PRFIN20050801_180144_000000382039_00299_17888_5358.N1	01-AUG-2005 18:01:44	Bright	38.000	103	38Zet Sgr	2.6000	9700.0	76	17888	No
78	GOM_NL__2PRFIN20050801_180407_000000372039_00299_17888_5359.N1	01-AUG-2005 18:04:07	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	17888	No
79	GOM_NL__2PRFIN20050801_182100_000000352039_00299_17888_5360.N1	01-AUG-2005 18:21:00	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	17888	No
80	GOM_NL__2PRFIN20050801_182448_000000372039_00299_17888_5361.N1	01-AUG-2005 18:24:48	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	17888	No
81	GOM_NL__2PRFIN20050801_182850_000000372039_00299_17888_5362.N1	01-AUG-2005 18:28:50	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	17888	No
82	GOM_NL__2PRFIN20050801_183259_000000372039_00299_17888_5363.N1	01-AUG-2005 18:32:59	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	17888	No
83	GOM_NL__2PRFIN20050801_190514_000000462039_00299_17888_5364.N1	01-AUG-2005 19:05:14	Dark	46.000	1	9Alp CMa	-1.4400	11000.	92	17888	No
84	GOM_NL__2PRFIN20050801_190908_000000392039_00299_17888_5365.N1	01-AUG-2005 19:09:08	Dark	39.000	177	1Zet CMa	3.0220	26000.	78	17888	No
85	GOM_NL__2PRFIN20050801_191519_000000442039_00299_17888_5366.N1	01-AUG-2005 19:15:19	Dark	44.000	2	Alp Car	-0.73600	7000.0	88	17888	No
86	GOM_NL__2PRFIN20050801_192554_000000372039_00300_17889_5697.N1	01-AUG-2005 19:25:54	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	17889	No
87	GOM_NL__2PRFIN20050801_193400_000000422039_00300_17889_5698.N1	01-AUG-2005 19:34:00	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	17889	No
88	GOM_NL__2PRFIN20050801_194221_000000422039_00300_17889_5699.N1	01-AUG-2005 19:42:21	Bright	42.000	103	38Zet Sgr	2.6000	9700.0	84	17889	No
89	GOM_NL__2PRFIN20050801_194443_000000362039_00300_17889_5700.N1	01-AUG-2005 19:44:43	Bright	35.500	155	41Pi Sgr	2.9000	6600.0	71	17889	No
90	GOM_NL__2PRFIN20050801_200136_000000352039_00300_17889_5701.N1	01-AUG-2005 20:01:36	Bright	35.000	5	3Alp Lyr	0.033000	11000.	70	17889	No
91	GOM_NL__2PRFIN20050801_200524_000000382039_00300_17889_5702.N1	01-AUG-2005 20:05:24	Bright	38.000	69	33Gam Dra	2.2310	3800.0	76	17889	No
92	GOM_NL__2PRFIN20050801_200926_000000372039_00300_17889_5703.N1	01-AUG-2005 20:09:26	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	17889	No
93	GOM_NL__2PRFIN20050801_201335_000000352039_00300_17889_5704.N1	01-AUG-2005 20:13:35	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	17889	No
94	GOM_NL__2PRFIN20050801_204550_000000422039_00300_17889_5705.N1	01-AUG-2005 20:45:50	Dark	42.000	1	9Alp CMa	-1.4400	11000.	84	17889	No
95	GOM_NL__2PRFIN20050801_204944_000000382039_00300_17889_5706.N1	01-AUG-2005 20:49:44	Dark	38.000	177	1Zet CMa	3.0220	26000.	76	17889	No
96	GOM_NL__2PRFIN20050801_205555_000000492039_00300_17889_5707.N1	01-AUG-2005 20:55:55	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	17889	No
97	GOM_NL__2PRFIN20050801_210630_000000362039_00301_17890_5697.N1	01-AUG-2005 21:06:30	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	17890	No
98	GOM_NL__2PRFIN20050801_211436_000000382039_00301_17890_5698.N1	01-AUG-2005 21:14:36	Straylight	38.000	45	Alp Pav	1.9400	26000.	76	17890	No
99	GOM_NL__2PRFIN20050801_212257_000000382039_00301_17890_5699.N1	01-AUG-2005 21:22:57	Bright	38.000	103	38Zet Sgr	2.6000	9700.0	76	17890	No
100	GOM_NL__2PRFIN20050801_212519_000000372039_00301_17890_5700.N1	01-AUG-2005 21:25:19	Bright	36.500	155	41Pi Sgr	2.9000	6600.0	73	17890	No
101	GOM_NL__2PRFIN20050801_214212_000000402039_00301_17890_5701.N1	01-AUG-2005 21:42:12	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	17890	No

102	GOM_NL__2PRFIN20050801_214600_000000392039_00301_17890_5702.N1	01-AUG-2005 21:46:00	Bright	38.500	69	33Gam Dra	2.2310	3800.0	77	17890	No
103	GOM_NL__2PRFIN20050801_215002_000000392039_00301_17890_5703.N1	01-AUG-2005 21:50:02	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	17890	No
104	GOM_NL__2PRFIN20050801_215411_000000332039_00301_17890_5704.N1	01-AUG-2005 21:54:11	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	17890	No
105	GOM_NL__2PRFIN20050801_222626_000000382039_00301_17890_5705.N1	01-AUG-2005 22:26:26	Dark	37.500	1	9Alp CMa	-1.4400	11000.	75	17890	No
106	GOM_NL__2PRFIN20050801_223020_000000372039_00301_17890_5706.N1	01-AUG-2005 22:30:20	Dark	37.000	177	1Zet CMa	3.0220	26000.	74	17890	No
107	GOM_NL__2PRFIN20050801_223631_000000432039_00301_17890_5707.N1	01-AUG-2005 22:36:31	Dark	43.000	2	Alp Car	-0.73600	7000.0	86	17890	No
108	GOM_NL__2PRFIN20050801_224706_000000372039_00302_17891_5717.N1	01-AUG-2005 22:47:06	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	17891	No
109	GOM_NL__2PRFIN20050801_225512_000000382039_00302_17891_5718.N1	01-AUG-2005 22:55:12	Straylight	38.000	45	Alp Pav	1.9400	26000.	76	17891	No
110	GOM_NL__2PRFIN20050801_230333_000000442039_00302_17891_5719.N1	01-AUG-2005 23:03:33	Bright	44.000	103	38Zet Sgr	2.6000	9700.0	88	17891	No
111	GOM_NL__2PRFIN20050801_230555_000000382039_00302_17891_5720.N1	01-AUG-2005 23:05:55	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	17891	No
112	GOM_NL__2PRFIN20050801_232248_000000342039_00302_17891_5721.N1	01-AUG-2005 23:22:48	Bright	33.500	5	3Alp Lyr	0.033000	11000.	67	17891	No
113	GOM_NL__2PRFIN20050801_232636_000000402039_00302_17891_5722.N1	01-AUG-2005 23:26:36	Bright	39.500	69	33Gam Dra	2.2310	3800.0	79	17891	No
114	GOM_NL__2PRFIN20050801_233039_000000382039_00302_17891_5723.N1	01-AUG-2005 23:30:39	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	17891	No
115	GOM_NL__2PRFIN20050801_233447_000000372039_00302_17891_5724.N1	01-AUG-2005 23:34:47	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	17891	No

### 3. Quality information per product

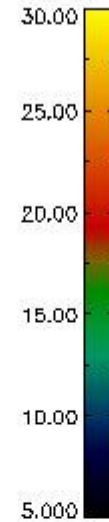
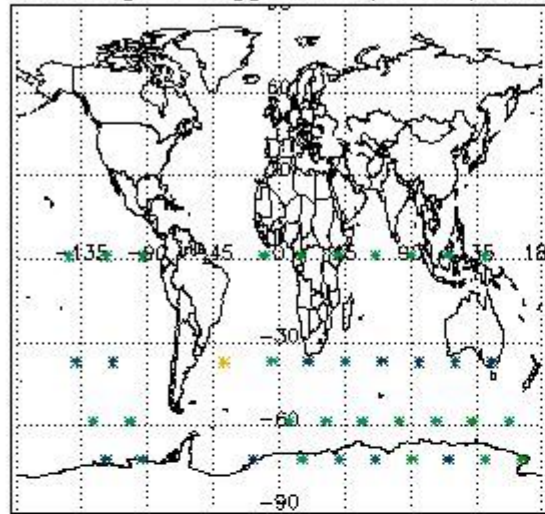
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

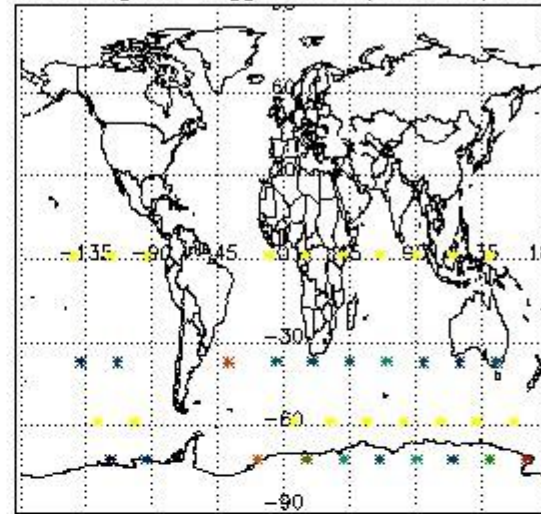


#### 3.2 Plot quality information per product (world map)

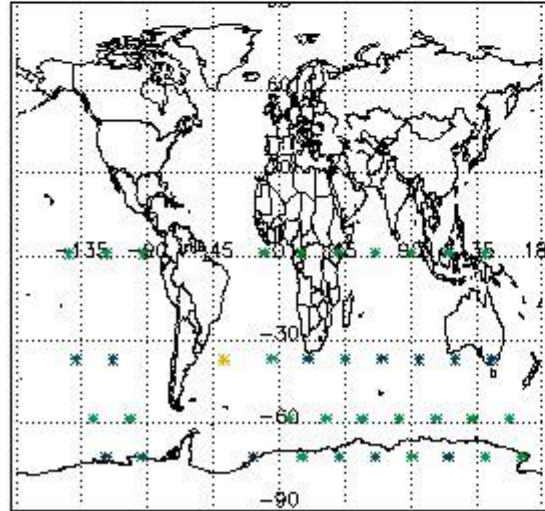
Percentage of flagged data per O3 profile



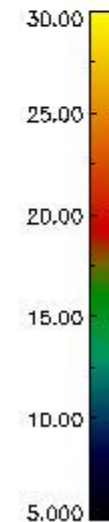
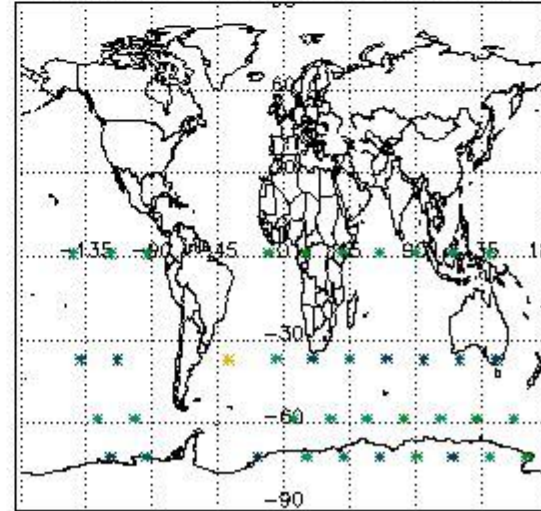
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

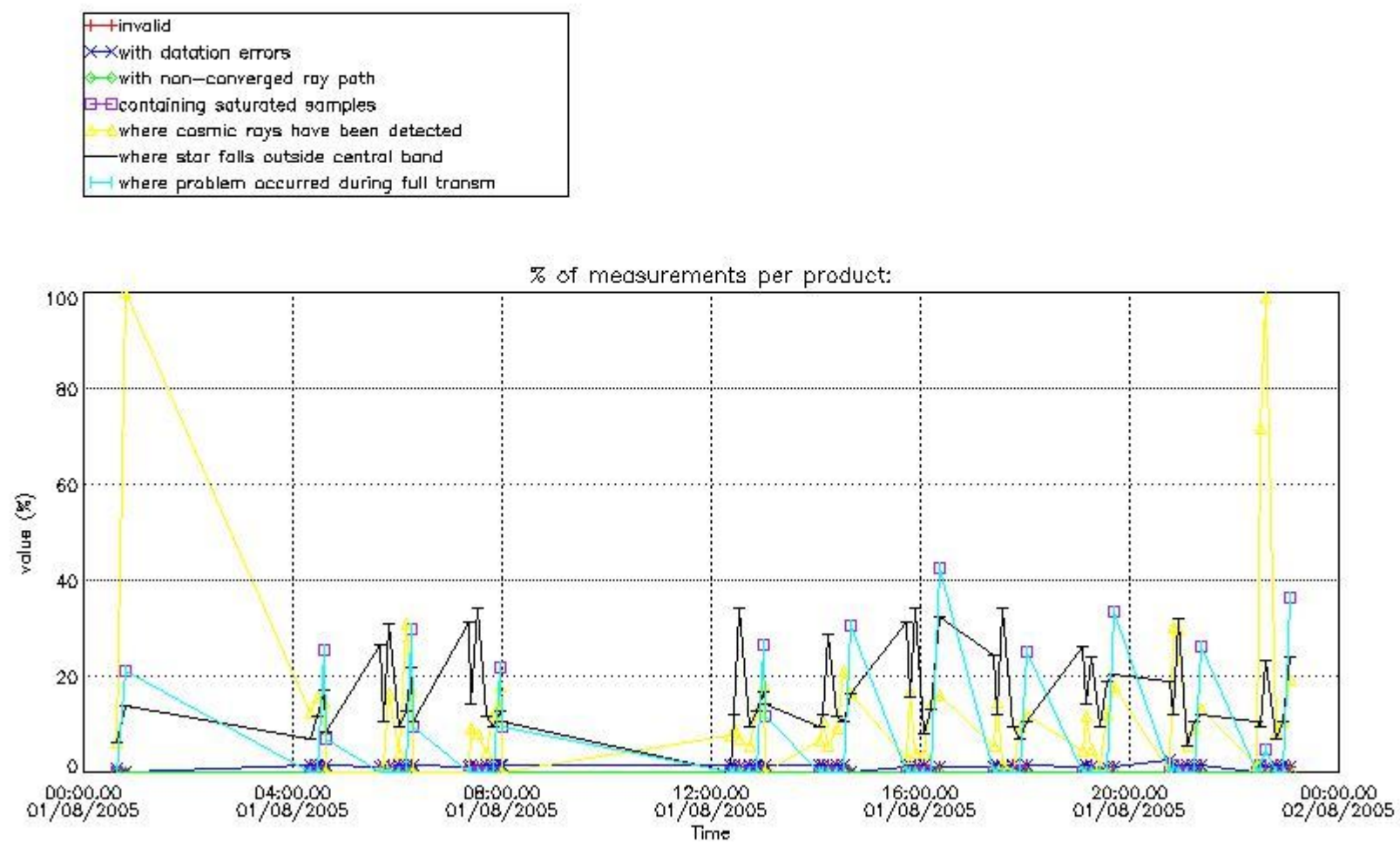


#### 4. Level 1 quality information per product

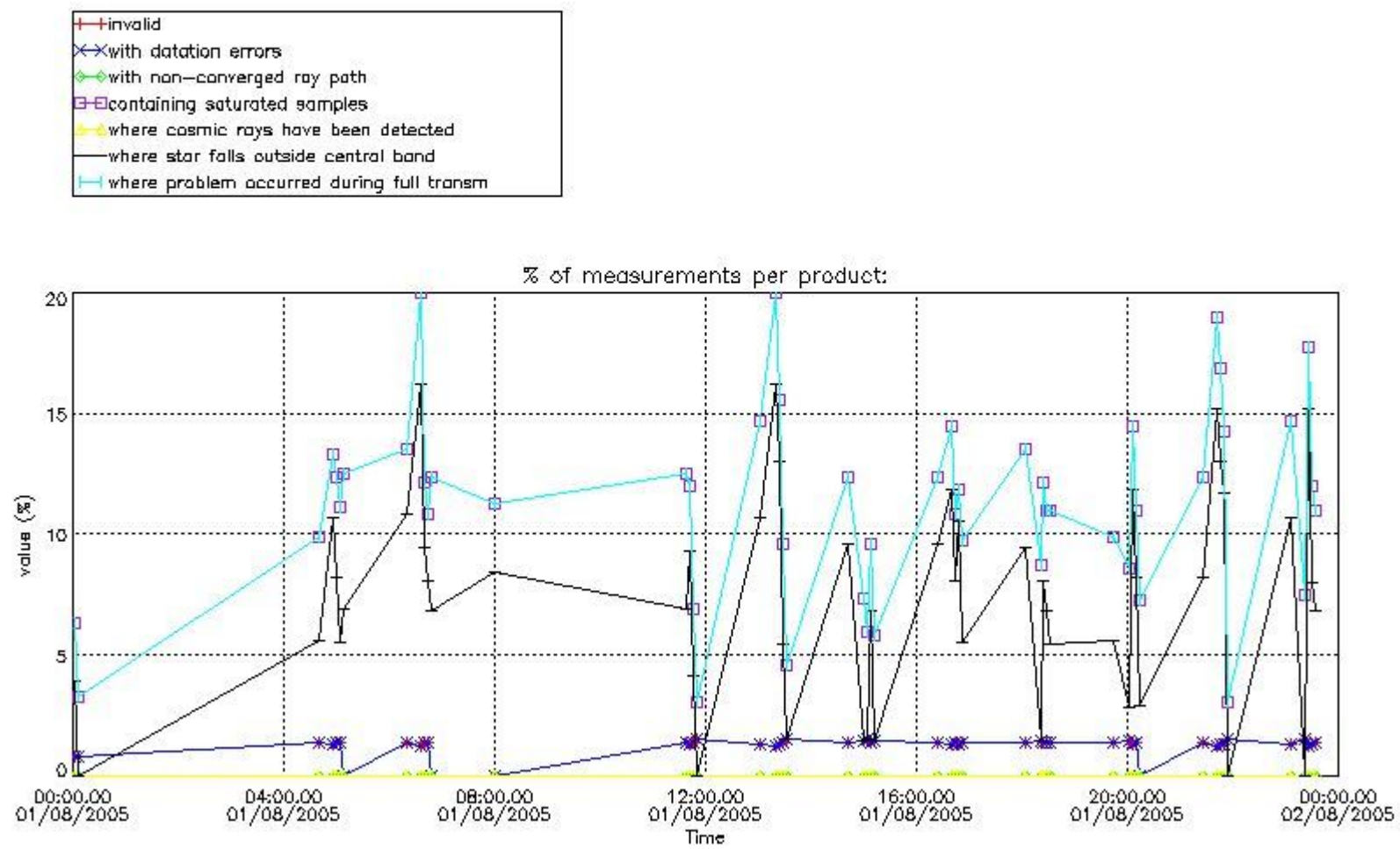
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

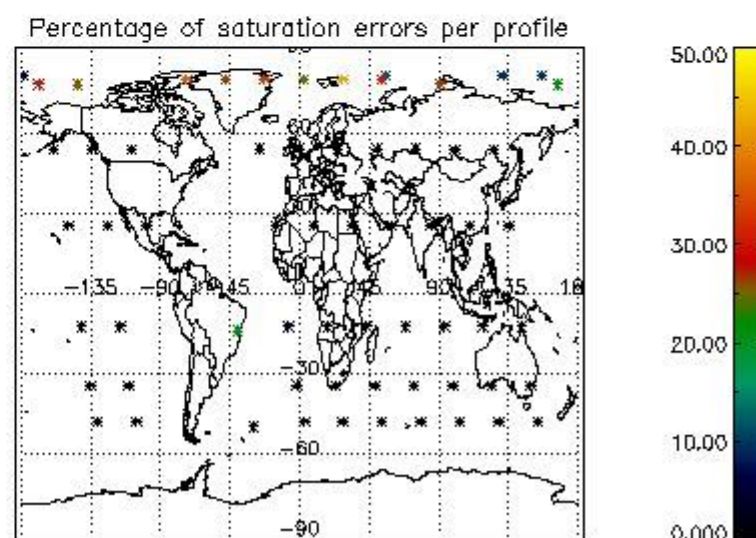
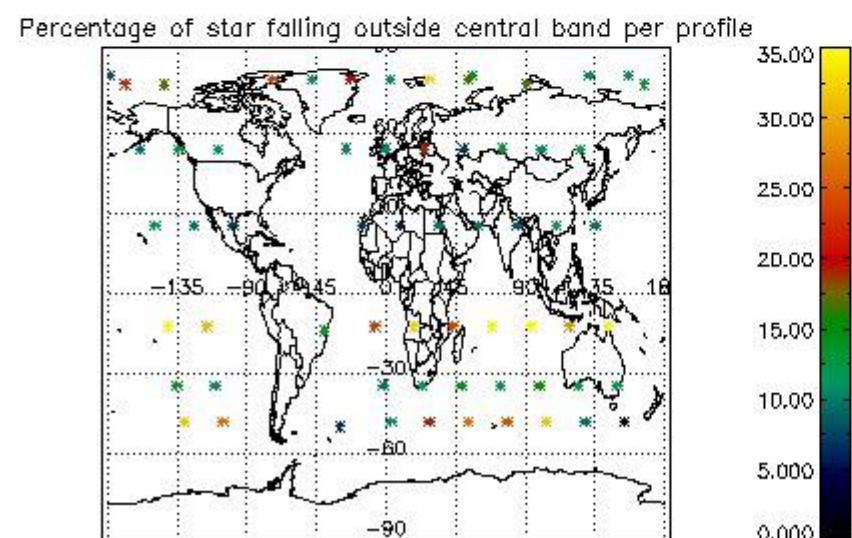
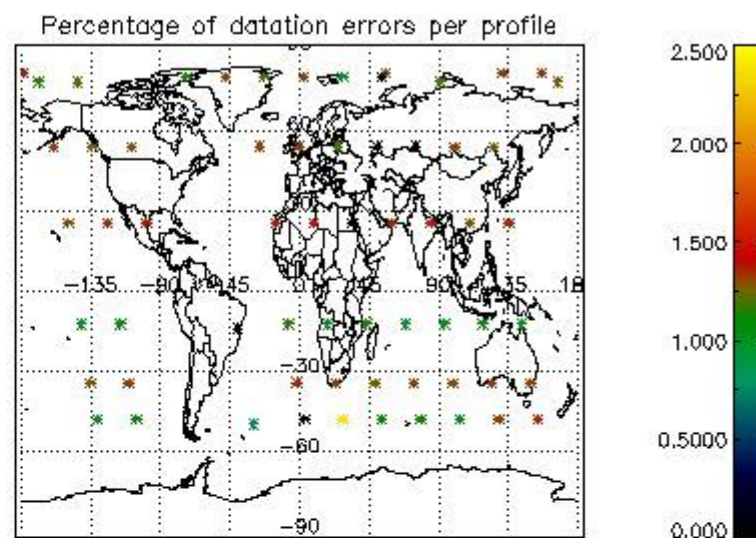
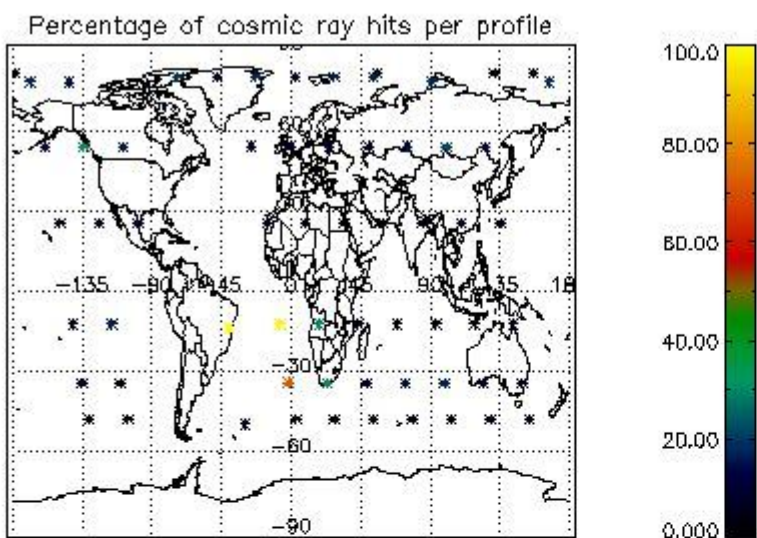


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



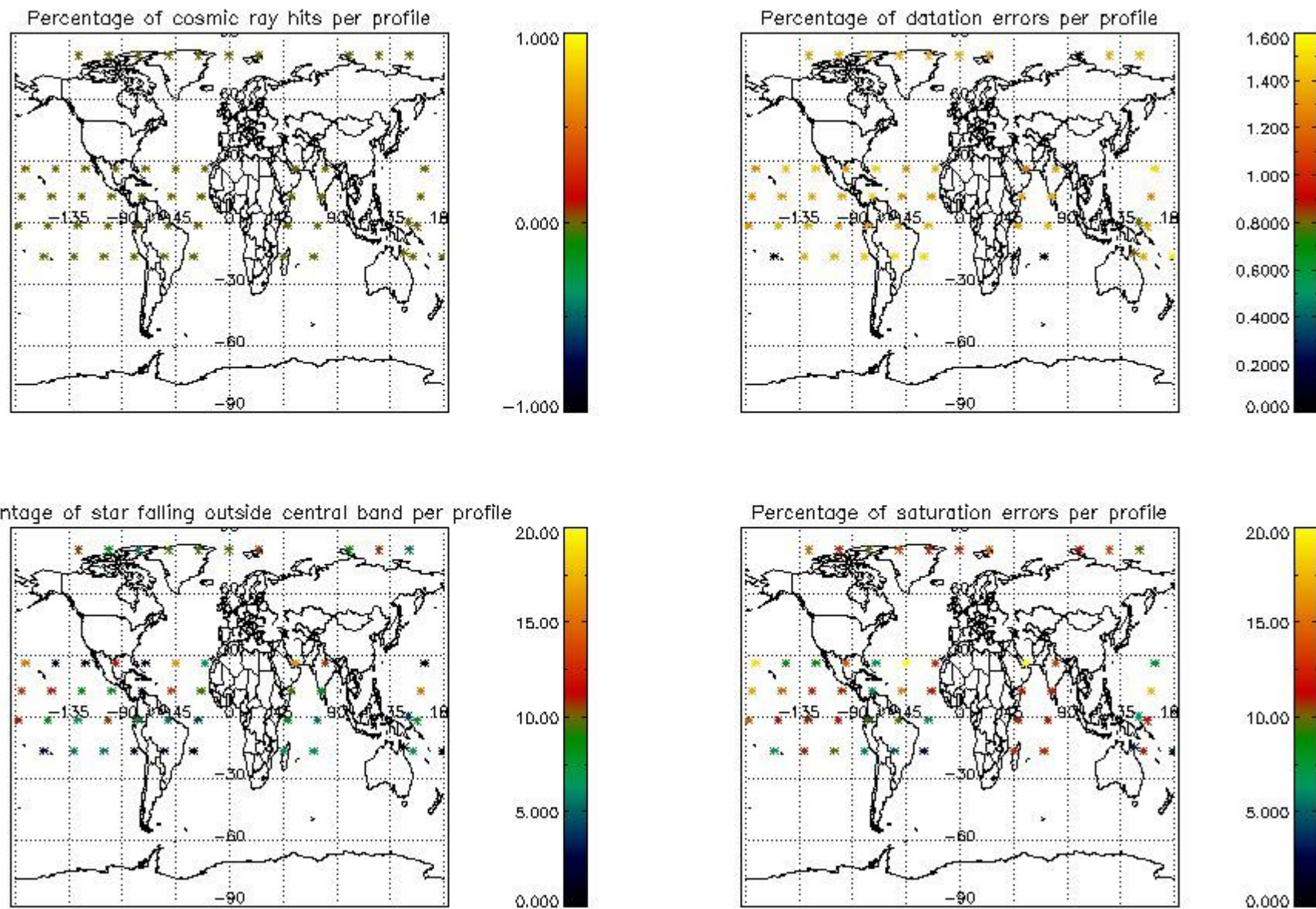
*4.2 Plot quality information per product coming from level 1b processing (world map)*

*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





## 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

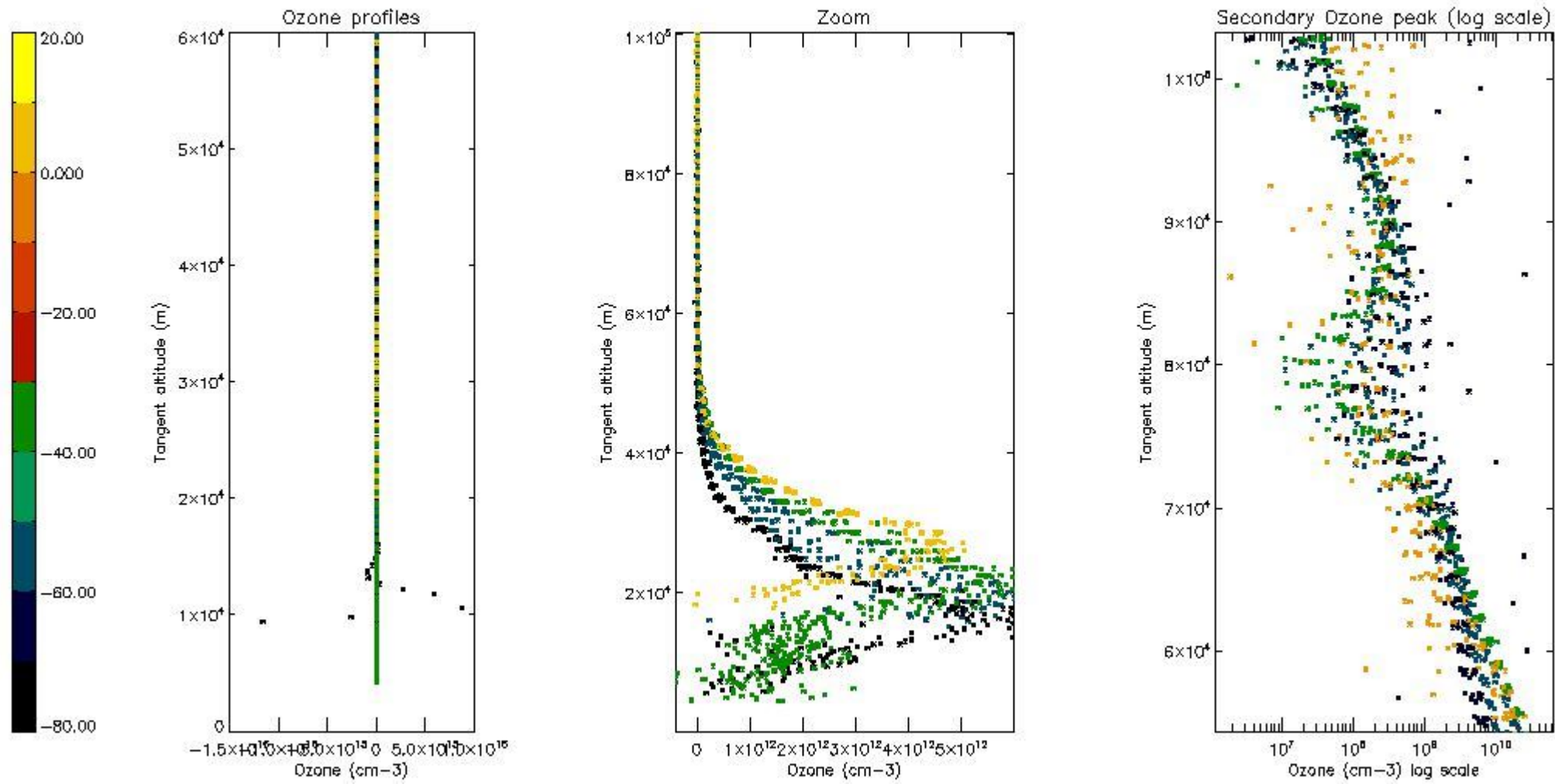
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	23

STD < 10	19
STD < 5	14

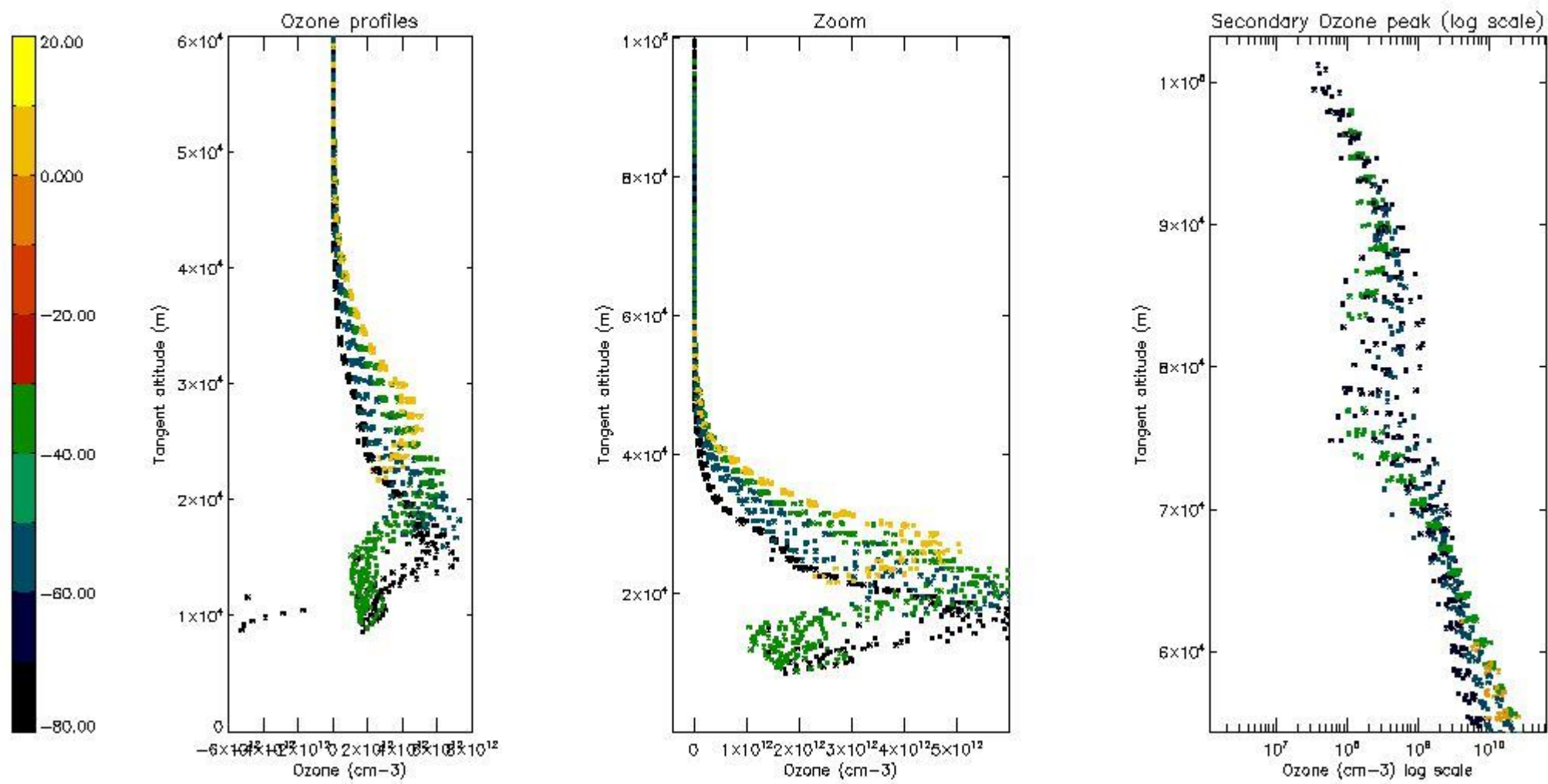
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



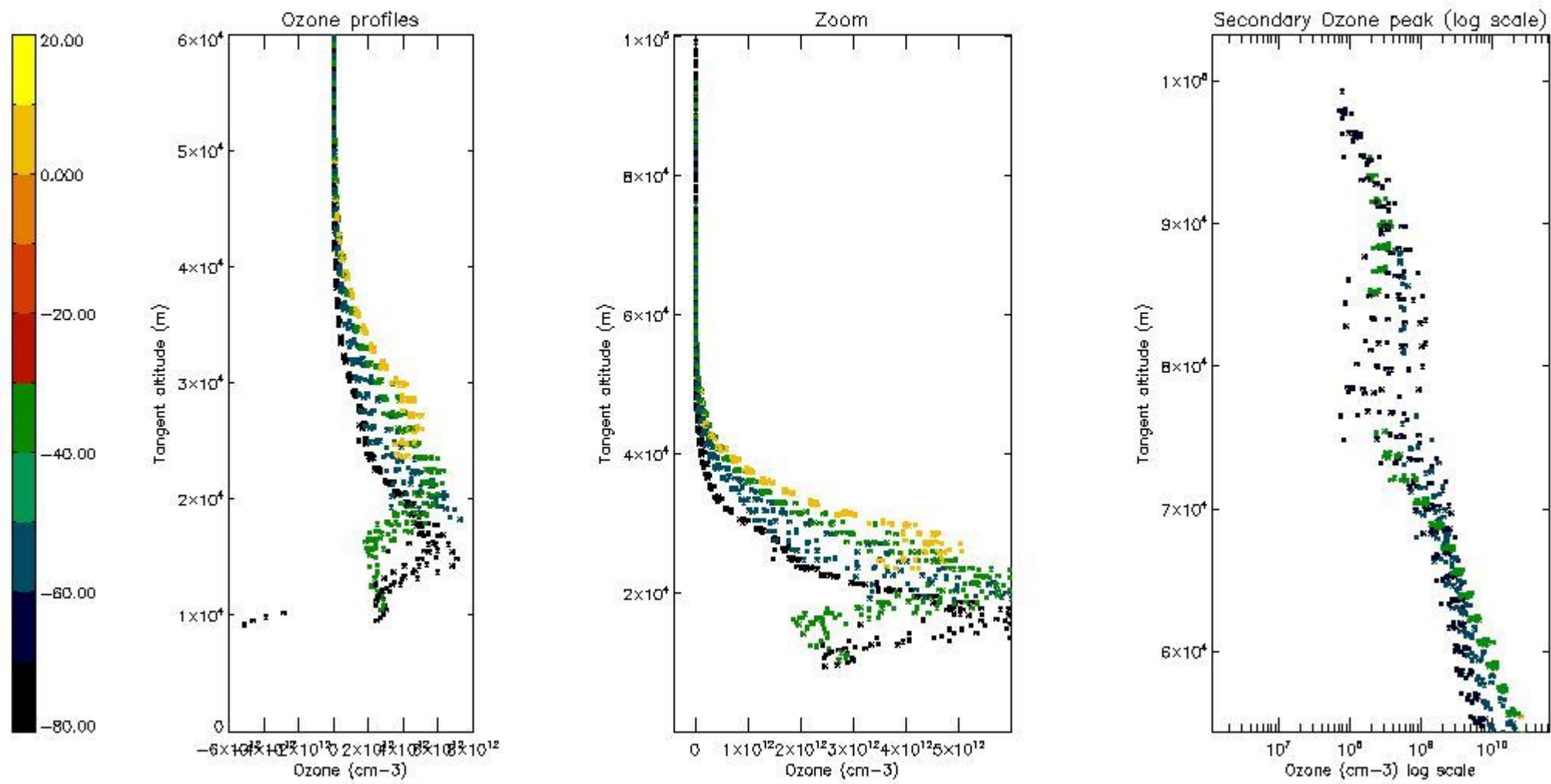
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



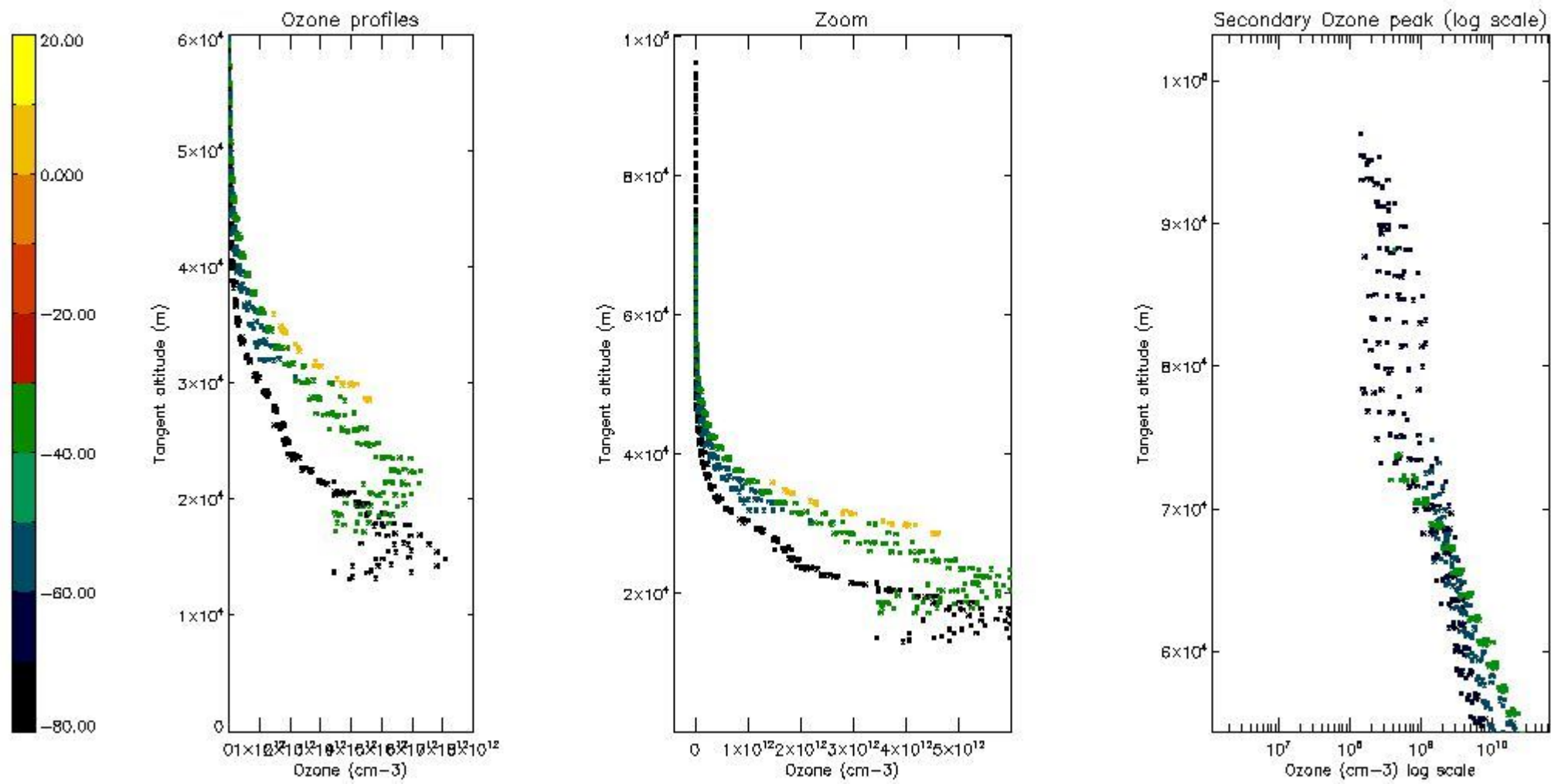
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



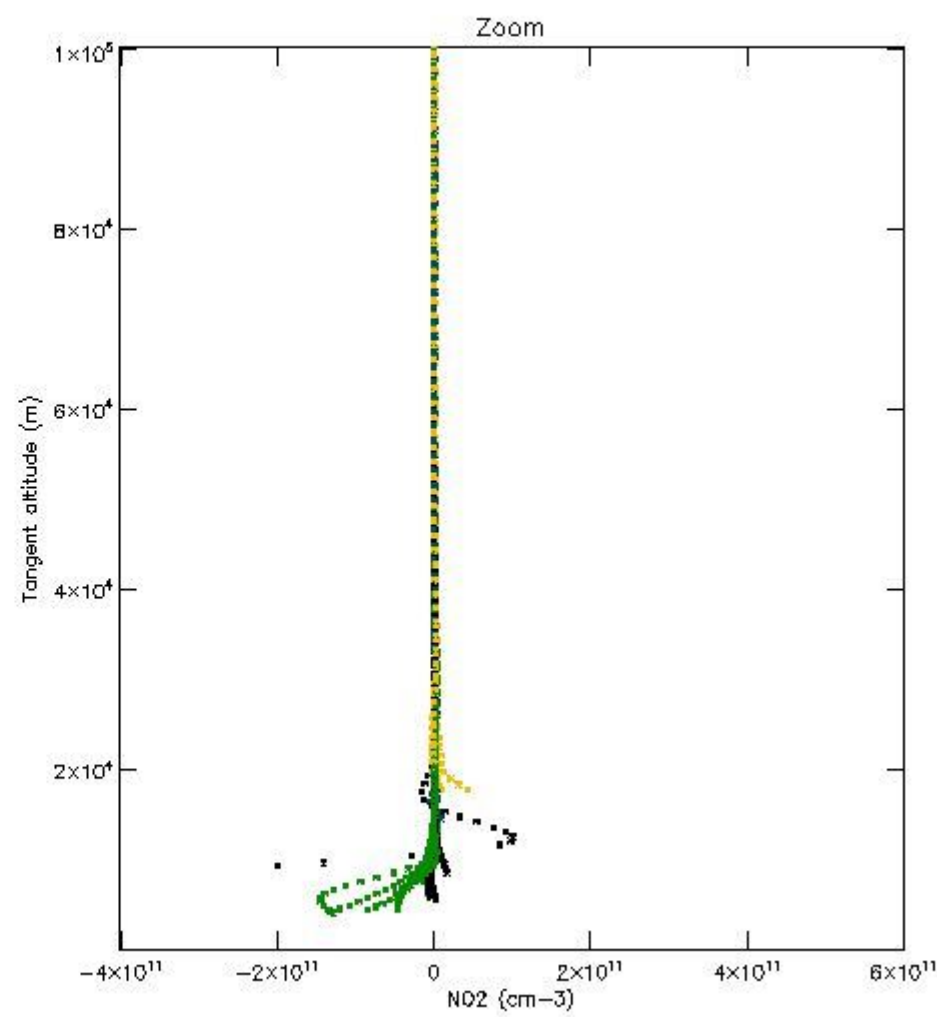
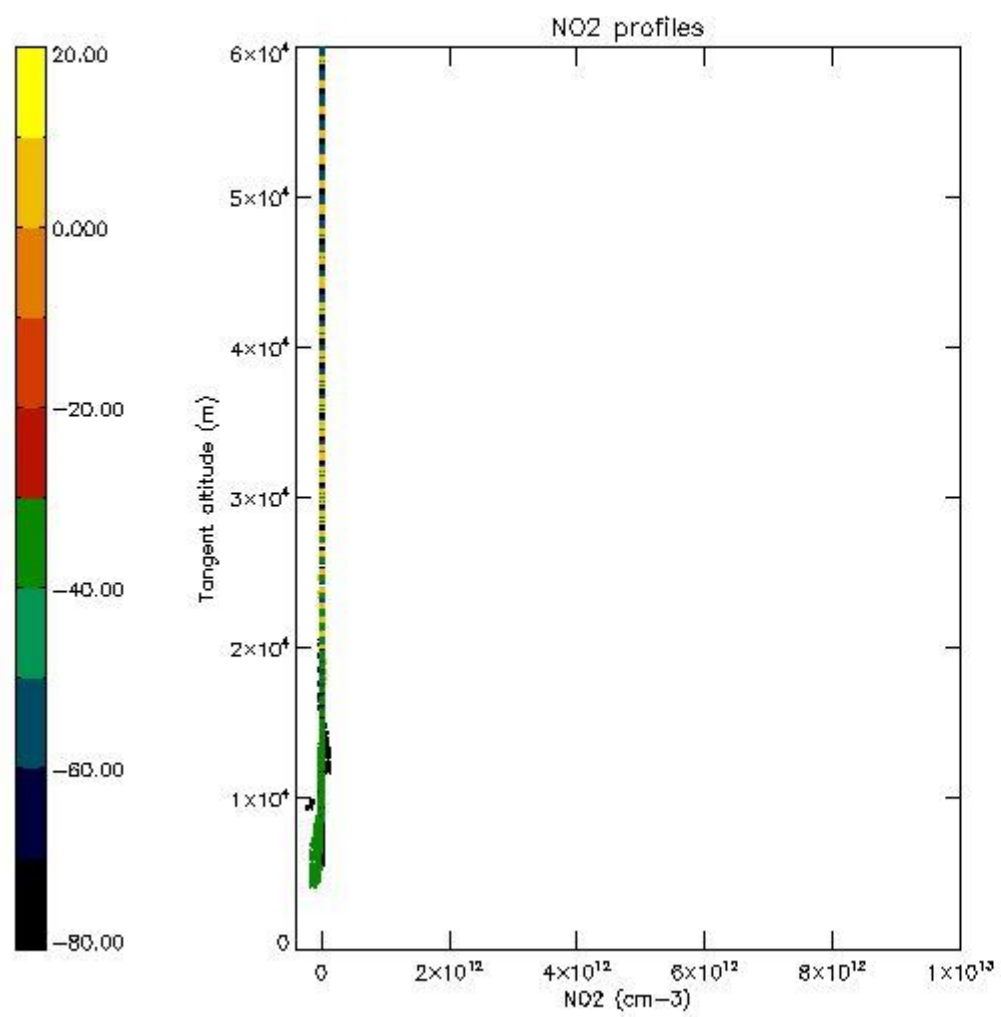
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



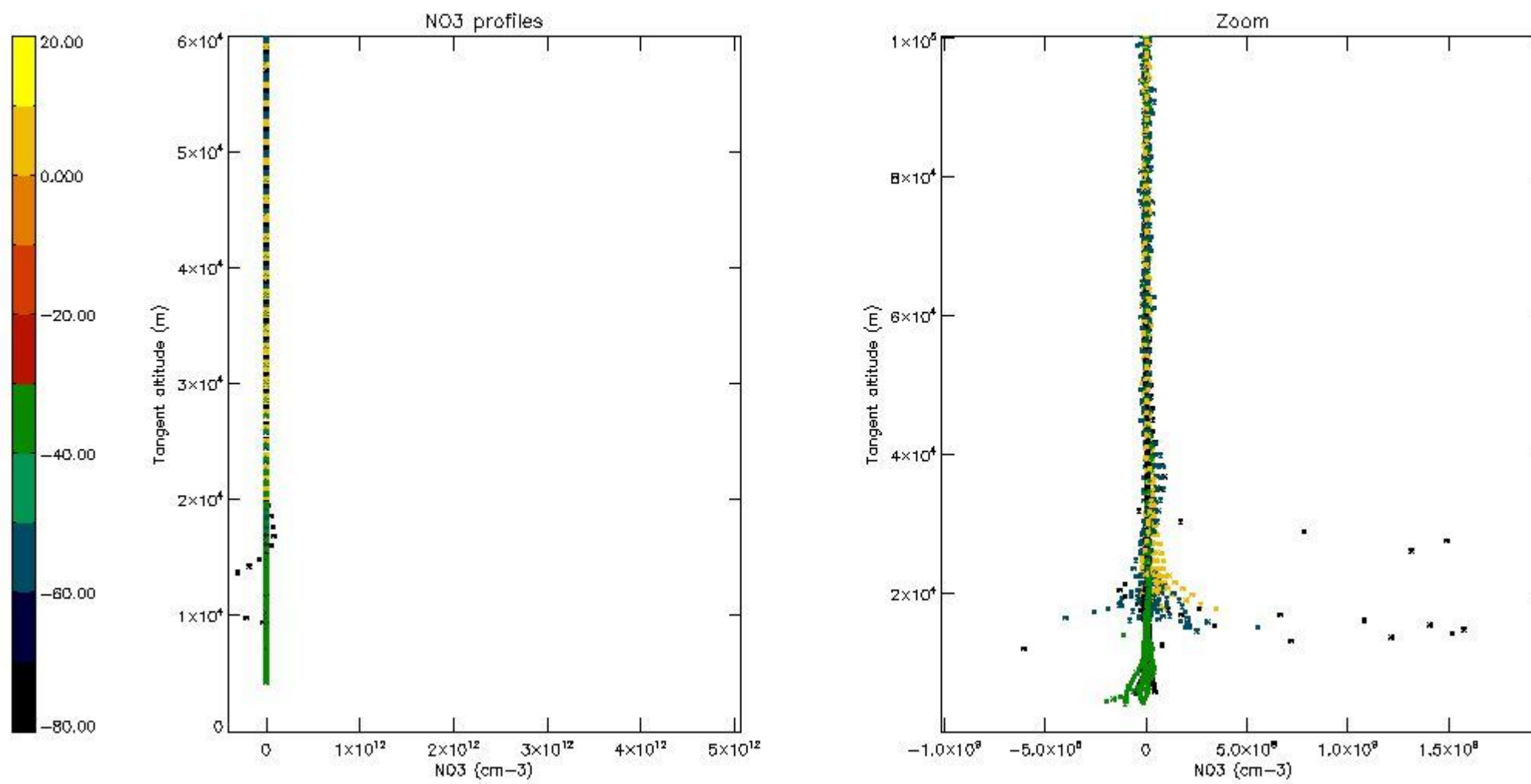
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



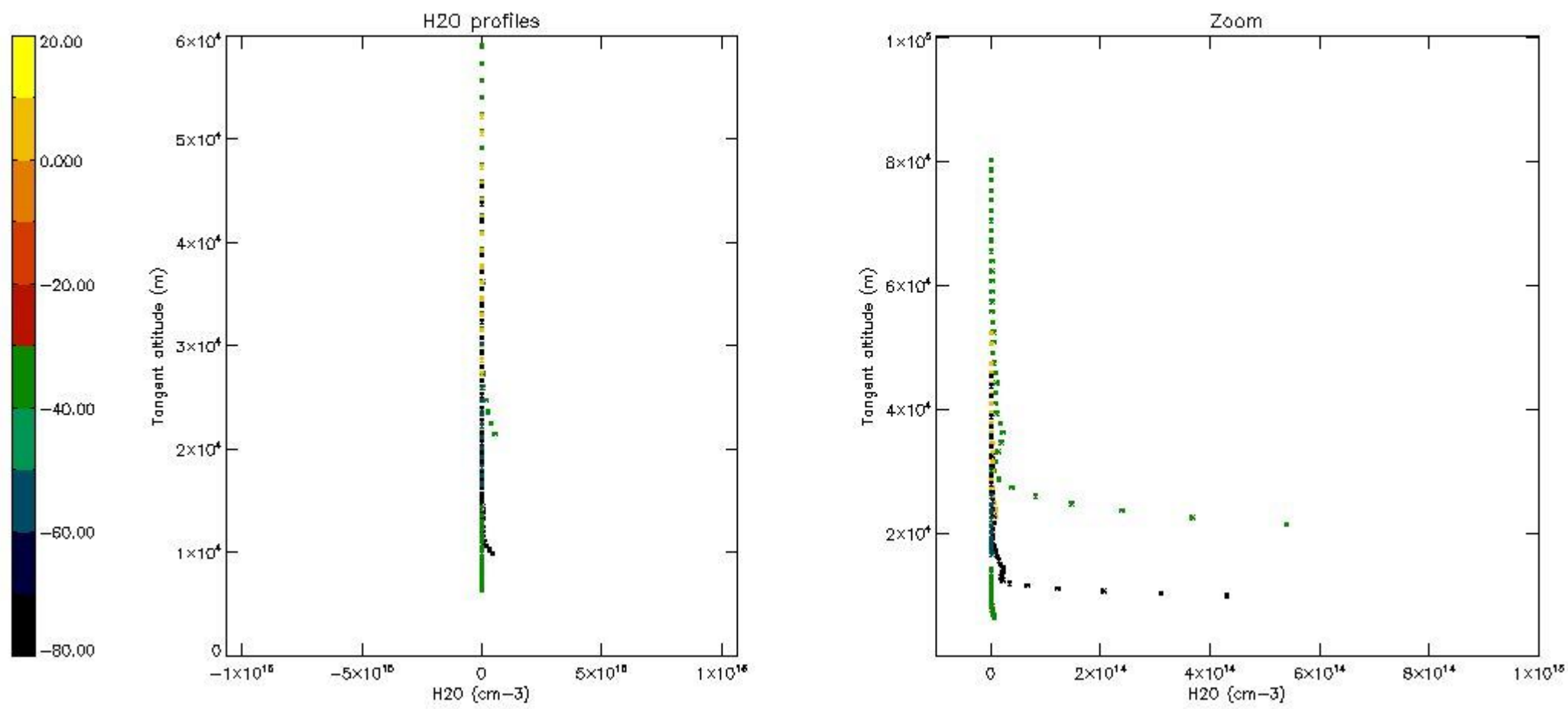
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



*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	01-AUG-2005 00:01:44
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	01-AUG-2005 00:01:44
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	01-AUG-2005 00:01:44



# 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	18APR2013 10:16:37
Data source version	GOMOS/6.01
Start time of products	01-08-2005 (01AUG2005 00:00:00)
Stop time of products	02-08-2005 (02AUG2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	115
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__2PRFIN20050801_000144_000000642039_00288_17877_5325.N1	01-AUG-2005 00:01:44	Bright	63.500	119	14Eta Dra	2.7270	4700.0	127	17877	No
2	GOM_NL__2PRFIN20050801_000554_000000612039_00288_17877_5326.N1	01-AUG-2005 00:05:54	Bright	61.000	60	7Bet UMi	2.0810	3950.0	122	17877	No
3	GOM_NL__2PRFIN20050801_003811_000000642039_00288_17877_5327.N1	01-AUG-2005 00:38:11	Dark	64.000	1	9Alp CMa	-1.4400	11000.	128	17877	No
4	GOM_NL__2PRFIN20050801_004816_000000692039_00288_17877_5328.N1	01-AUG-2005 00:48:16	Dark	69.000	2	Alp Car	-0.73600	7000.0	138	17877	No
5	GOM_NL__2PRFIN20050801_042028_000000372039_00291_17880_5342.N1	01-AUG-2005 04:20:28	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	17880	No
6	GOM_NL__2PRFIN20050801_042834_000000392039_00291_17880_5343.N1	01-AUG-2005 04:28:34	Straylight	38.500	45	Alp Pav	1.9400	26000.	77	17880	No
7	GOM_NL__2PRFIN20050801_043603_000000412039_00291_17880_5344.N1	01-AUG-2005 04:36:03	Bright	41.000	38	20Eps Sgr	1.8360	11000.	82	17880	No
8	GOM_NL__2PRFIN20050801_043800_000000372039_00291_17880_5345.N1	01-AUG-2005 04:38:00	Bright	36.500	57	34Sig Sgr	2.0660	26000.	73	17880	No
9	GOM_NL__2PRFIN20050801_043919_000000362039_00291_17880_5346.N1	01-AUG-2005 04:39:19	Bright	35.500	155	41Pi Sgr	2.9000	6600.0	71	17880	No
10	GOM_NL__2PRFIN20050801_045612_000000382039_00291_17880_5347.N1	01-AUG-2005 04:56:12	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	17880	No
11	GOM_NL__2PRFIN20050801_050000_000000372039_00291_17880_5348.N1	01-AUG-2005 05:00:00	Bright	36.500	69	33Gam Dra	2.2310	3800.0	73	17880	No
12	GOM_NL__2PRFIN20050801_050400_000000362039_00291_17880_5349.N1	01-AUG-2005 05:04:00	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	17880	No
13	GOM_NL__2PRFIN20050801_050809_000000362039_00291_17880_5350.N1	01-AUG-2005 05:08:09	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	17880	No
14	GOM_NL__2PRFIN20050801_054025_000000462039_00291_17880_5351.N1	01-AUG-2005 05:40:25	Dark	45.500	1	9Alp CMa	-1.4400	11000.	91	17880	No
15	GOM_NL__2PRFIN20050801_054419_000000382039_00291_17880_5352.N1	01-AUG-2005 05:44:19	Dark	37.500	177	1Zet CMa	3.0220	26000.	75	17880	No
16	GOM_NL__2PRFIN20050801_055031_000000492039_00291_17880_5353.N1	01-AUG-2005 05:50:31	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	17880	No
17	GOM_NL__2PRFIN20050801_060105_000000372039_00292_17881_5344.N1	01-AUG-2005 06:01:05	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	17881	No
18	GOM_NL__2PRFIN20050801_060910_000000392039_00292_17881_5345.N1	01-AUG-2005 06:09:10	Straylight	39.000	45	Alp Pav	1.9400	26000.	78	17881	No
19	GOM_NL__2PRFIN20050801_061639_000000442039_00292_17881_5346.N1	01-AUG-2005 06:16:39	Bright	43.500	38	20Eps Sgr	1.8360	11000.	87	17881	No
20	GOM_NL__2PRFIN20050801_061836_000000382039_00292_17881_5347.N1	01-AUG-2005 06:18:36	Bright	37.500	57	34Sig Sgr	2.0660	26000.	75	17881	No
21	GOM_NL__2PRFIN20050801_061955_000000372039_00292_17881_5348.N1	01-AUG-2005 06:19:55	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	17881	No
22	GOM_NL__2PRFIN20050801_063648_000000402039_00292_17881_5349.N1	01-AUG-2005 06:36:48	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	17881	No
23	GOM_NL__2PRFIN20050801_064036_000000372039_00292_17881_5350.N1	01-AUG-2005 06:40:36	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	17881	No
24	GOM_NL__2PRFIN20050801_064436_000000372039_00292_17881_5351.N1	01-AUG-2005 06:44:36	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	17881	No
25	GOM_NL__2PRFIN20050801_064845_000000372039_00292_17881_5352.N1	01-AUG-2005 06:48:45	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	17881	No
26	GOM_NL__2PRFIN20050801_072101_000000502039_00292_17881_5353.N1	01-AUG-2005 07:21:01	Dark	49.500	1	9Alp CMa	-1.4400	11000.	99	17881	No
27	GOM_NL__2PRFIN20050801_072455_000000392039_00292_17881_5354.N1	01-AUG-2005 07:24:55	Dark	38.500	177	1Zet CMa	3.0220	26000.	77	17881	No
28	GOM_NL__2PRFIN20050801_073107_000000512039_00292_17881_5355.N1	01-AUG-2005 07:31:07	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	17881	No
29	GOM_NL__2PRFIN20050801_074141_000000392039_00293_17882_5944.N1	01-AUG-2005 07:41:41	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	17882	No
30	GOM_NL__2PRFIN20050801_074946_000000382039_00293_17882_5945.N1	01-AUG-2005 07:49:46	Straylight	37.500	45	Alp Pav	1.9400	26000.	75	17882	No
31	GOM_NL__2PRFIN20050801_075715_000000392039_00293_17882_5946.N1	01-AUG-2005 07:57:15	Bright	39.000	38	20Eps Sgr	1.8360	11000.	78	17882	No
32	GOM_NL__2PRFIN20050801_075912_000000382039_00293_17882_5947.N1	01-AUG-2005 07:59:12	Bright	37.500	57	34Sig Sgr	2.0660	26000.	75	17882	No
33	GOM_NL__2PRFIN20050801_080031_000000362039_00293_17882_5948.N1	01-AUG-2005 08:00:31	Bright	35.500	155	41Pi Sgr	2.9000	6600.0	71	17882	No
34	GOM_NL__2PRFIN20050801_113836_000000362039_00295_17884_5947.N1	01-AUG-2005 11:38:36	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	17884	No
35	GOM_NL__2PRFIN20050801_114224_000000382039_00295_17884_5948.N1	01-AUG-2005 11:42:24	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	17884	No
36	GOM_NL__2PRFIN20050801_114625_000000362039_00295_17884_5949.N1	01-AUG-2005 11:46:25	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	17884	No
37	GOM_NL__2PRFIN20050801_115034_000000332039_00295_17884_5950.N1	01-AUG-2005 11:50:34	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	17884	No
38	GOM_NL__2PRFIN20050801_122249_000000342039_00295_17884_5951.N1	01-AUG-2005 12:22:49	Dark	33.500	1	9Alp CMa	-1.4400	11000.	67	17884	No
39	GOM_NL__2PRFIN20050801_122643_000000382039_00295_17884_5952.N1	01-AUG-2005 12:26:43	Dark	38.000	177	1Zet CMa	3.0220	26000.	76	17884	No
40	GOM_NL__2PRFIN20050801_123254_000000512039_00295_17884_5953.N1	01-AUG-2005 12:32:54	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	17884	No
41	GOM_NL__2PRFIN20050801_124329_000000372039_00296_17885_5698.N1	01-AUG-2005 12:43:29	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	17885	No
42	GOM_NL__2PRFIN20050801_125135_000000392039_00296_17885_5699.N1	01-AUG-2005 12:51:35	Straylight	39.000	45	Alp Pav	1.9400	26000.	78	17885	No

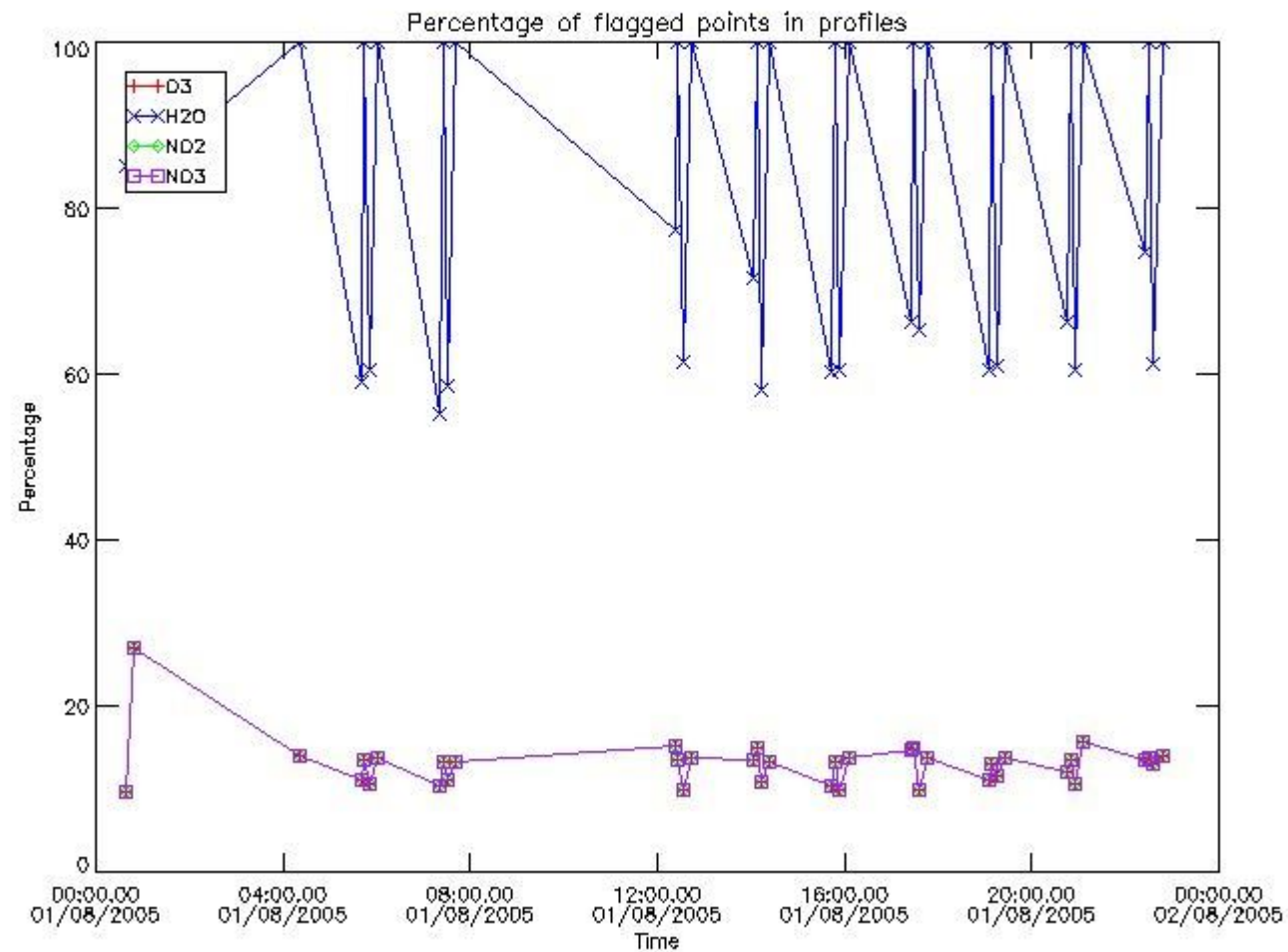
43	GOM_NL__2PRFIN20050801_125903_000000422039_00296_17885_5700.N1	01-AUG-2005 12:59:03	Bright	41.500	38	20Eps Sgr	1.8360	11000.	83	17885	No
44	GOM_NL__2PRFIN20050801_130100_000000392039_00296_17885_5701.N1	01-AUG-2005 13:01:00	Bright	38.500	57	34Sig Sgr	2.0660	26000.	77	17885	No
45	GOM_NL__2PRFIN20050801_130219_000000382039_00296_17885_5702.N1	01-AUG-2005 13:02:19	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	17885	No
46	GOM_NL__2PRFIN20050801_131912_000000402039_00296_17885_5703.N1	01-AUG-2005 13:19:12	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	17885	No
47	GOM_NL__2PRFIN20050801_132300_000000392039_00296_17885_5704.N1	01-AUG-2005 13:23:00	Bright	38.500	69	33Gam Dra	2.2310	3800.0	77	17885	No
48	GOM_NL__2PRFIN20050801_132701_000000372039_00296_17885_5705.N1	01-AUG-2005 13:27:01	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	17885	No
49	GOM_NL__2PRFIN20050801_133110_000000332039_00296_17885_5706.N1	01-AUG-2005 13:31:10	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	17885	No
50	GOM_NL__2PRFIN20050801_140325_000000382039_00296_17885_5707.N1	01-AUG-2005 14:03:25	Dark	37.500	1	9Alp CMa	-1.4400	11000.	75	17885	No
51	GOM_NL__2PRFIN20050801_140719_000000382039_00296_17885_5708.N1	01-AUG-2005 14:07:19	Dark	37.500	177	1Zet CMa	3.0220	26000.	75	17885	No
52	GOM_NL__2PRFIN20050801_141330_000000472039_00296_17885_5709.N1	01-AUG-2005 14:13:30	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	17885	No
53	GOM_NL__2PRFIN20050801_142405_000000392039_00297_17886_5699.N1	01-AUG-2005 14:24:05	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	17886	No
54	GOM_NL__2PRFIN20050801_143211_000000382039_00297_17886_5700.N1	01-AUG-2005 14:32:11	Straylight	38.000	45	Alp Pav	1.9400	26000.	76	17886	No
55	GOM_NL__2PRFIN20050801_144032_000000402039_00297_17886_5701.N1	01-AUG-2005 14:40:32	Bright	39.500	103	38Zet Sgr	2.6000	9700.0	79	17886	No
56	GOM_NL__2PRFIN20050801_144255_000000372039_00297_17886_5702.N1	01-AUG-2005 14:42:55	Bright	36.500	155	41Pi Sgr	2.9000	6600.0	73	17886	No
57	GOM_NL__2PRFIN20050801_145948_000000342039_00297_17886_5703.N1	01-AUG-2005 14:59:48	Bright	34.000	5	3Alp Lyr	0.033000	11000.	68	17886	No
58	GOM_NL__2PRFIN20050801_150336_000000342039_00297_17886_5704.N1	01-AUG-2005 15:03:36	Bright	33.500	69	33Gam Dra	2.2310	3800.0	67	17886	No
59	GOM_NL__2PRFIN20050801_150737_000000372039_00297_17886_5705.N1	01-AUG-2005 15:07:37	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	17886	No
60	GOM_NL__2PRFIN20050801_151146_000000352039_00297_17886_5706.N1	01-AUG-2005 15:11:46	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	17886	No
61	GOM_NL__2PRFIN20050801_154402_000000502039_00297_17886_5707.N1	01-AUG-2005 15:44:02	Dark	49.500	1	9Alp CMa	-1.4400	11000.	99	17886	No
62	GOM_NL__2PRFIN20050801_154756_000000392039_00297_17886_5708.N1	01-AUG-2005 15:47:56	Dark	38.500	177	1Zet CMa	3.0220	26000.	77	17886	No
63	GOM_NL__2PRFIN20050801_155407_000000512039_00297_17886_5709.N1	01-AUG-2005 15:54:07	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	17886	No
64	GOM_NL__2PRFIN20050801_160442_000000372039_00298_17887_5354.N1	01-AUG-2005 16:04:42	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	17887	No
65	GOM_NL__2PRFIN20050801_161247_000000392039_00298_17887_5355.N1	01-AUG-2005 16:12:47	Straylight	38.500	45	Alp Pav	1.9400	26000.	77	17887	No
66	GOM_NL__2PRFIN20050801_162108_000000502039_00298_17887_5356.N1	01-AUG-2005 16:21:08	Bright	49.500	103	38Zet Sgr	2.6000	9700.0	99	17887	No
67	GOM_NL__2PRFIN20050801_162331_000000372039_00298_17887_5357.N1	01-AUG-2005 16:23:31	Bright	36.500	155	41Pi Sgr	2.9000	6600.0	73	17887	No
68	GOM_NL__2PRFIN20050801_164024_000000382039_00298_17887_5358.N1	01-AUG-2005 16:40:24	Bright	38.000	5	3Alp Lyr	0.033000	11000.	76	17887	No
69	GOM_NL__2PRFIN20050801_164412_000000372039_00298_17887_5359.N1	01-AUG-2005 16:44:12	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	17887	No
70	GOM_NL__2PRFIN20050801_164814_000000382039_00298_17887_5360.N1	01-AUG-2005 16:48:14	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	17887	No
71	GOM_NL__2PRFIN20050801_165222_000000362039_00298_17887_5361.N1	01-AUG-2005 16:52:22	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	17887	No
72	GOM_NL__2PRFIN20050801_172438_000000452039_00298_17887_5362.N1	01-AUG-2005 17:24:38	Dark	45.000	1	9Alp CMa	-1.4400	11000.	90	17887	No
73	GOM_NL__2PRFIN20050801_172832_000000382039_00298_17887_5363.N1	01-AUG-2005 17:28:32	Dark	37.500	177	1Zet CMa	3.0220	26000.	75	17887	No
74	GOM_NL__2PRFIN20050801_173443_000000512039_00298_17887_5364.N1	01-AUG-2005 17:34:43	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	17887	No
75	GOM_NL__2PRFIN20050801_174518_000000372039_00299_17888_5356.N1	01-AUG-2005 17:45:18	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	17888	No
76	GOM_NL__2PRFIN20050801_175323_000000372039_00299_17888_5357.N1	01-AUG-2005 17:53:23	Straylight	36.500	45	Alp Pav	1.9400	26000.	73	17888	No
77	GOM_NL__2PRFIN20050801_180144_000000382039_00299_17888_5358.N1	01-AUG-2005 18:01:44	Bright	38.000	103	38Zet Sgr	2.6000	9700.0	76	17888	No
78	GOM_NL__2PRFIN20050801_180407_000000372039_00299_17888_5359.N1	01-AUG-2005 18:04:07	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	17888	No
79	GOM_NL__2PRFIN20050801_182100_000000352039_00299_17888_5360.N1	01-AUG-2005 18:21:00	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	17888	No
80	GOM_NL__2PRFIN20050801_182448_000000372039_00299_17888_5361.N1	01-AUG-2005 18:24:48	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	17888	No
81	GOM_NL__2PRFIN20050801_182850_000000372039_00299_17888_5362.N1	01-AUG-2005 18:28:50	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	17888	No
82	GOM_NL__2PRFIN20050801_183259_000000372039_00299_17888_5363.N1	01-AUG-2005 18:32:59	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	17888	No
83	GOM_NL__2PRFIN20050801_190514_000000462039_00299_17888_5364.N1	01-AUG-2005 19:05:14	Dark	46.000	1	9Alp CMa	-1.4400	11000.	92	17888	No
84	GOM_NL__2PRFIN20050801_190908_000000392039_00299_17888_5365.N1	01-AUG-2005 19:09:08	Dark	39.000	177	1Zet CMa	3.0220	26000.	78	17888	No
85	GOM_NL__2PRFIN20050801_191519_000000442039_00299_17888_5366.N1	01-AUG-2005 19:15:19	Dark	44.000	2	Alp Car	-0.73600	7000.0	88	17888	No
86	GOM_NL__2PRFIN20050801_192554_000000372039_00300_17889_5697.N1	01-AUG-2005 19:25:54	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	17889	No
87	GOM_NL__2PRFIN20050801_193400_000000422039_00300_17889_5698.N1	01-AUG-2005 19:34:00	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	17889	No
88	GOM_NL__2PRFIN20050801_194221_000000422039_00300_17889_5699.N1	01-AUG-2005 19:42:21	Bright	42.000	103	38Zet Sgr	2.6000	9700.0	84	17889	No
89	GOM_NL__2PRFIN20050801_194443_000000362039_00300_17889_5700.N1	01-AUG-2005 19:44:43	Bright	35.500	155	41Pi Sgr	2.9000	6600.0	71	17889	No
90	GOM_NL__2PRFIN20050801_200136_000000352039_00300_17889_5701.N1	01-AUG-2005 20:01:36	Bright	35.000	5	3Alp Lyr	0.033000	11000.	70	17889	No
91	GOM_NL__2PRFIN20050801_200524_000000382039_00300_17889_5702.N1	01-AUG-2005 20:05:24	Bright	38.000	69	33Gam Dra	2.2310	3800.0	76	17889	No
92	GOM_NL__2PRFIN20050801_200926_000000372039_00300_17889_5703.N1	01-AUG-2005 20:09:26	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	17889	No
93	GOM_NL__2PRFIN20050801_201335_000000352039_00300_17889_5704.N1	01-AUG-2005 20:13:35	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	17889	No
94	GOM_NL__2PRFIN20050801_204550_000000422039_00300_17889_5705.N1	01-AUG-2005 20:45:50	Dark	42.000	1	9Alp CMa	-1.4400	11000.	84	17889	No
95	GOM_NL__2PRFIN20050801_204944_000000382039_00300_17889_5706.N1	01-AUG-2005 20:49:44	Dark	38.000	177	1Zet CMa	3.0220	26000.	76	17889	No
96	GOM_NL__2PRFIN20050801_205555_000000492039_00300_17889_5707.N1	01-AUG-2005 20:55:55	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	17889	No
97	GOM_NL__2PRFIN20050801_210630_000000362039_00301_17890_5697.N1	01-AUG-2005 21:06:30	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	17890	No
98	GOM_NL__2PRFIN20050801_211436_000000382039_00301_17890_5698.N1	01-AUG-2005 21:14:36	Straylight	38.000	45	Alp Pav	1.9400	26000.	76	17890	No
99	GOM_NL__2PRFIN20050801_212257_000000382039_00301_17890_5699.N1	01-AUG-2005 21:22:57	Bright	38.000	103	38Zet Sgr	2.6000	9700.0	76	17890	No
100	GOM_NL__2PRFIN20050801_212519_000000372039_00301_17890_5700.N1	01-AUG-2005 21:25:19	Bright	36.500	155	41Pi Sgr	2.9000	6600.0	73	17890	No
101	GOM_NL__2PRFIN20050801_214212_000000402039_00301_17890_5701.N1	01-AUG-2005 21:42:12	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	17890	No

102	GOM_NL__2PRFIN20050801_214600_000000392039_00301_17890_5702.N1	01-AUG-2005 21:46:00	Bright	38.500	69	33Gam Dra	2.2310	3800.0	77	17890	No
103	GOM_NL__2PRFIN20050801_215002_000000392039_00301_17890_5703.N1	01-AUG-2005 21:50:02	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	17890	No
104	GOM_NL__2PRFIN20050801_215411_000000332039_00301_17890_5704.N1	01-AUG-2005 21:54:11	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	17890	No
105	GOM_NL__2PRFIN20050801_222626_000000382039_00301_17890_5705.N1	01-AUG-2005 22:26:26	Dark	37.500	1	9Alp CMa	-1.4400	11000.	75	17890	No
106	GOM_NL__2PRFIN20050801_223020_000000372039_00301_17890_5706.N1	01-AUG-2005 22:30:20	Dark	37.000	177	1Zet CMa	3.0220	26000.	74	17890	No
107	GOM_NL__2PRFIN20050801_223631_000000432039_00301_17890_5707.N1	01-AUG-2005 22:36:31	Dark	43.000	2	Alp Car	-0.73600	7000.0	86	17890	No
108	GOM_NL__2PRFIN20050801_224706_000000372039_00302_17891_5717.N1	01-AUG-2005 22:47:06	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	17891	No
109	GOM_NL__2PRFIN20050801_225512_000000382039_00302_17891_5718.N1	01-AUG-2005 22:55:12	Straylight	38.000	45	Alp Pav	1.9400	26000.	76	17891	No
110	GOM_NL__2PRFIN20050801_230333_000000442039_00302_17891_5719.N1	01-AUG-2005 23:03:33	Bright	44.000	103	38Zet Sgr	2.6000	9700.0	88	17891	No
111	GOM_NL__2PRFIN20050801_230555_000000382039_00302_17891_5720.N1	01-AUG-2005 23:05:55	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	17891	No
112	GOM_NL__2PRFIN20050801_232248_000000342039_00302_17891_5721.N1	01-AUG-2005 23:22:48	Bright	33.500	5	3Alp Lyr	0.033000	11000.	67	17891	No
113	GOM_NL__2PRFIN20050801_232636_000000402039_00302_17891_5722.N1	01-AUG-2005 23:26:36	Bright	39.500	69	33Gam Dra	2.2310	3800.0	79	17891	No
114	GOM_NL__2PRFIN20050801_233039_000000382039_00302_17891_5723.N1	01-AUG-2005 23:30:39	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	17891	No
115	GOM_NL__2PRFIN20050801_233447_000000372039_00302_17891_5724.N1	01-AUG-2005 23:34:47	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	17891	No

### 3. Quality information per product

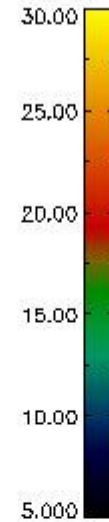
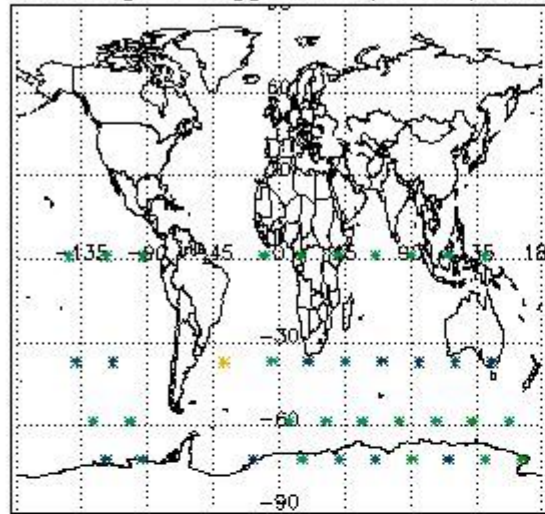
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

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

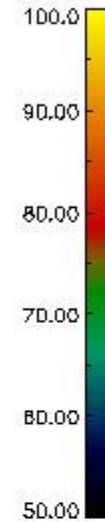
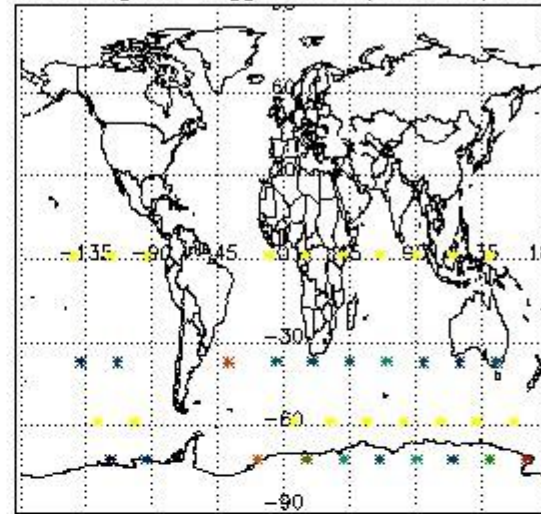


#### 3.2 Plot quality information per product (world map)

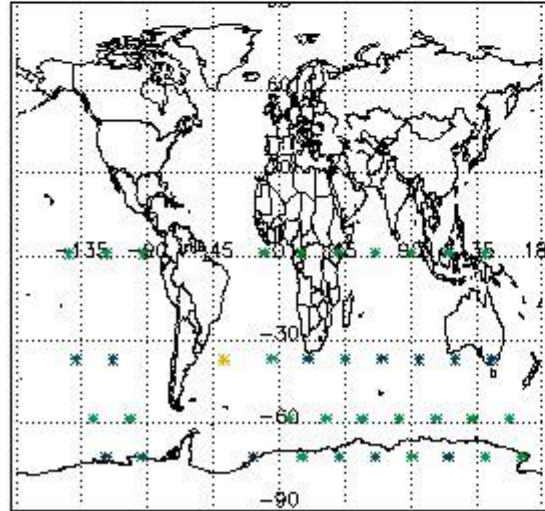
Percentage of flagged data per O3 profile



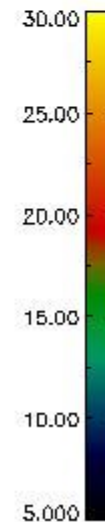
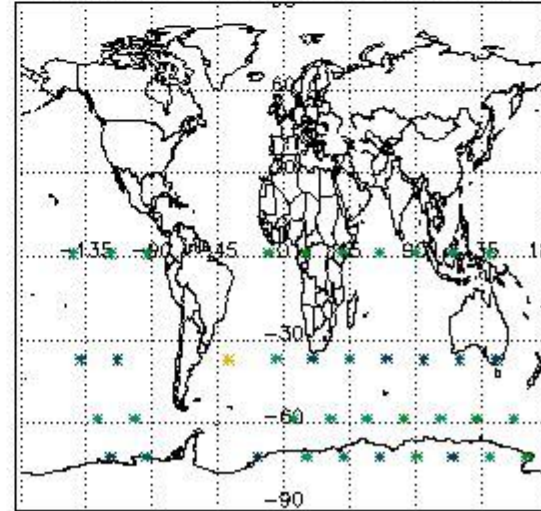
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

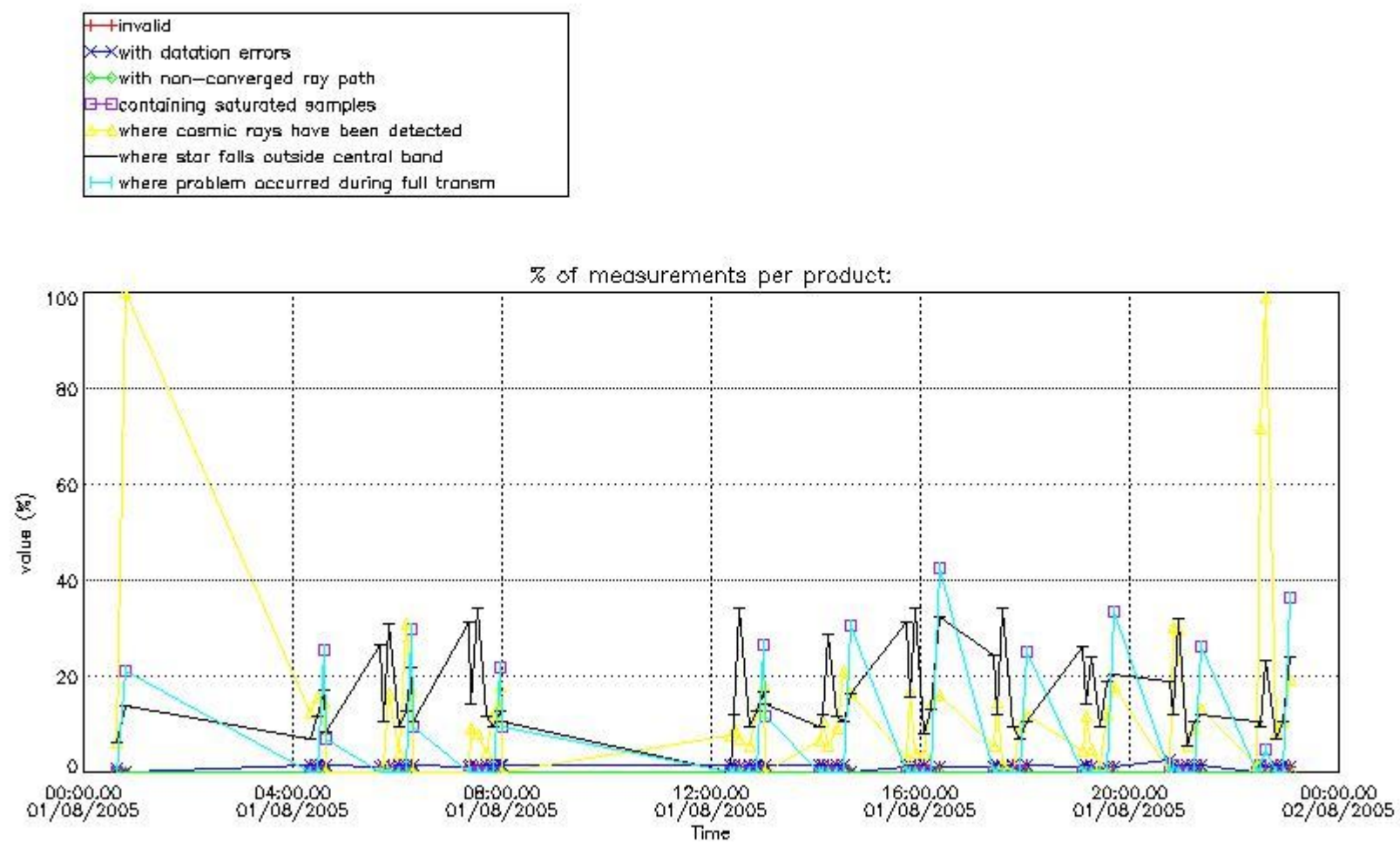


#### 4. Level 1 quality information per product

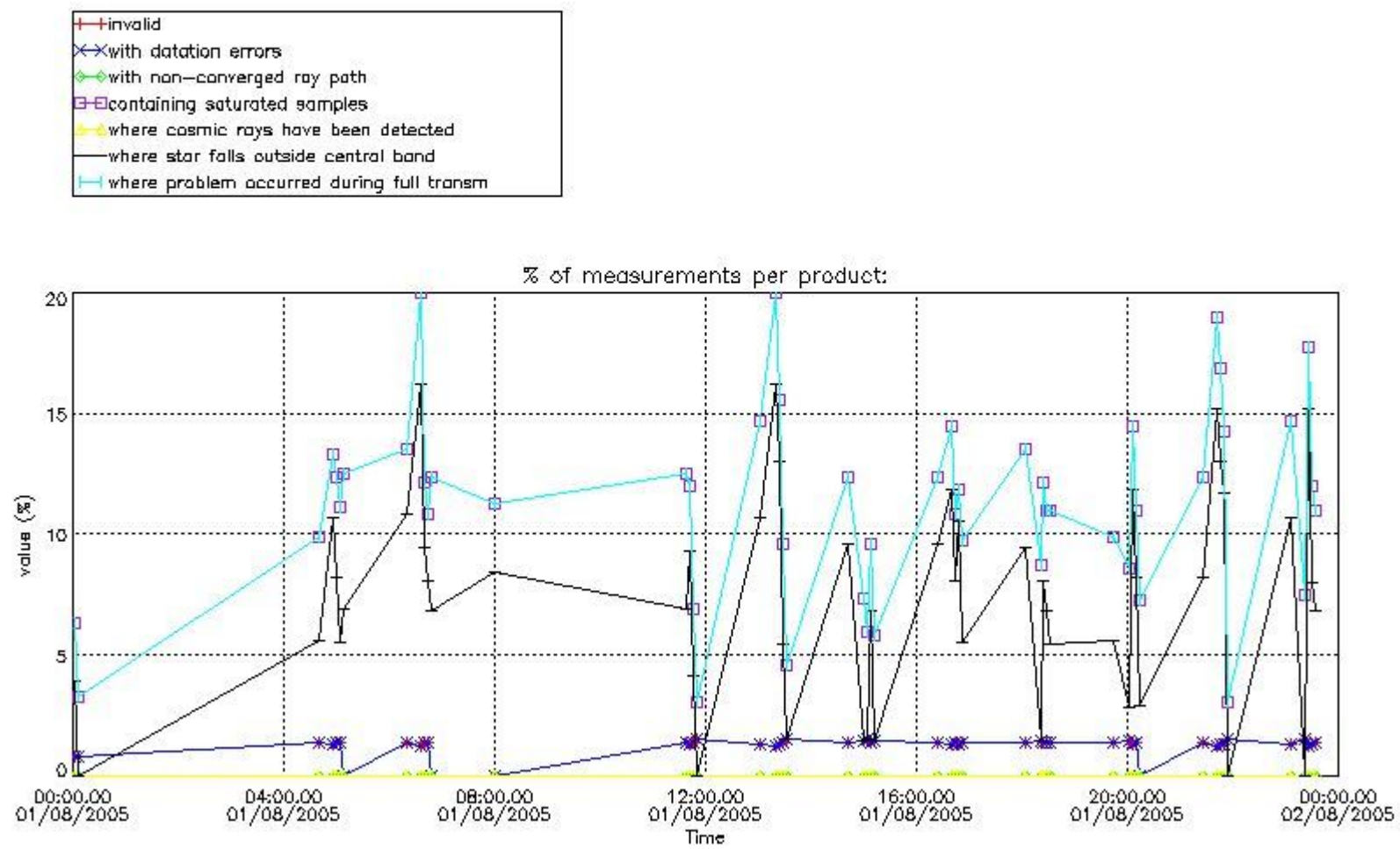
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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

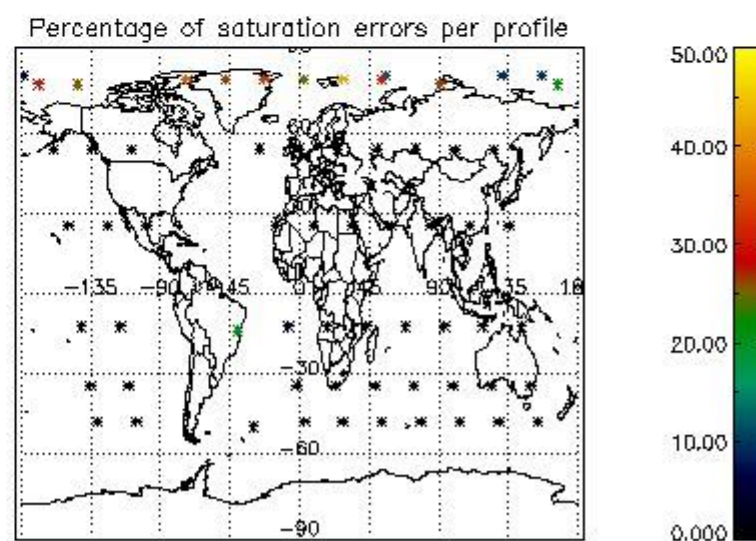
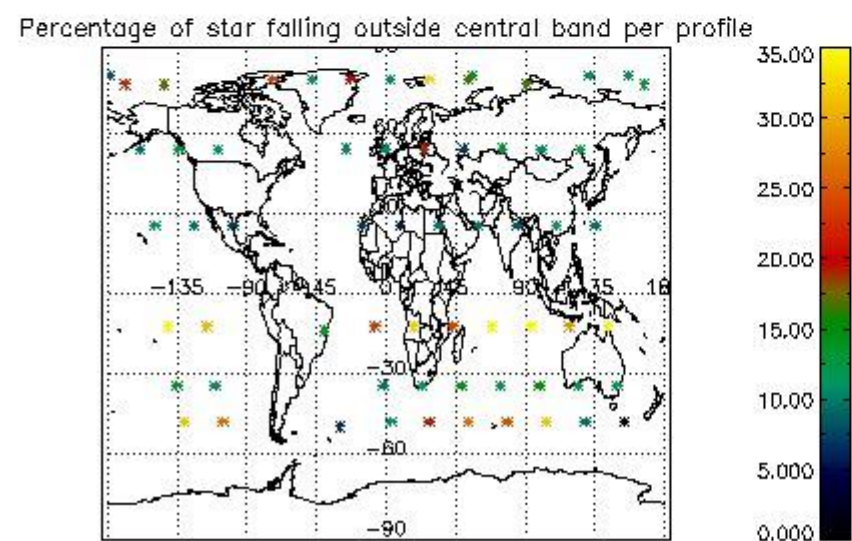
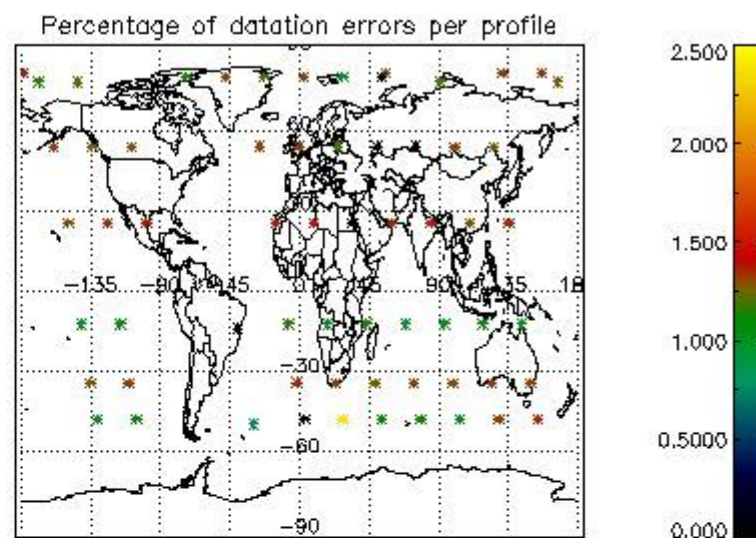
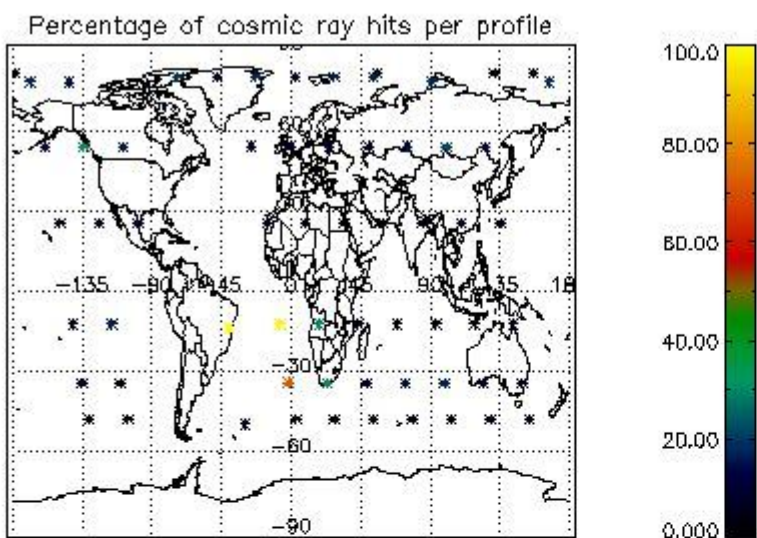


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



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

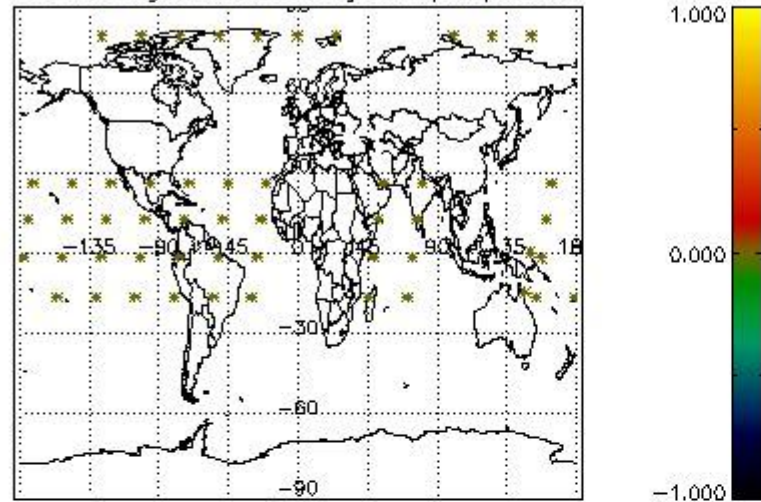
*4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes*



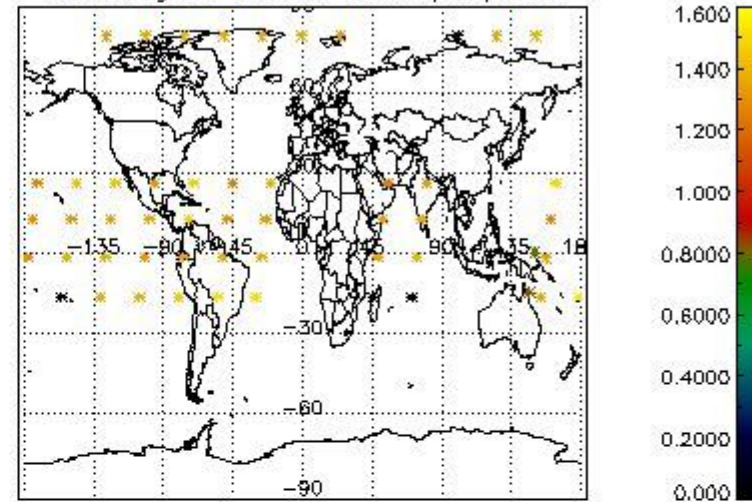
4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



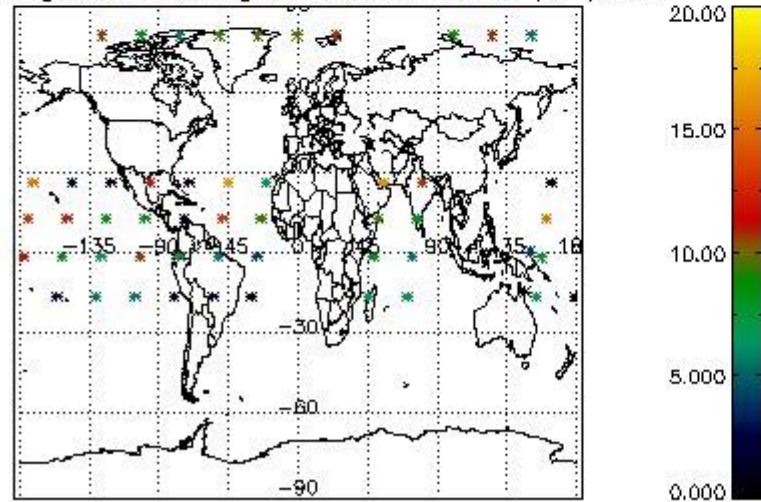
Percentage of cosmic ray hits per profile



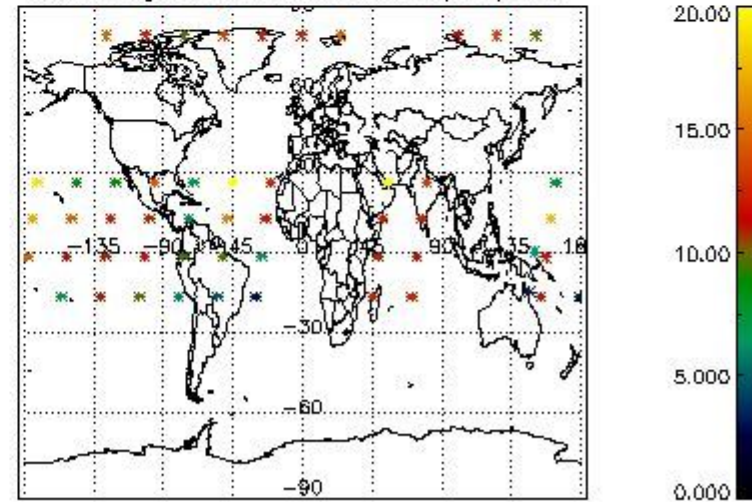
Percentage of datation errors per profile



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

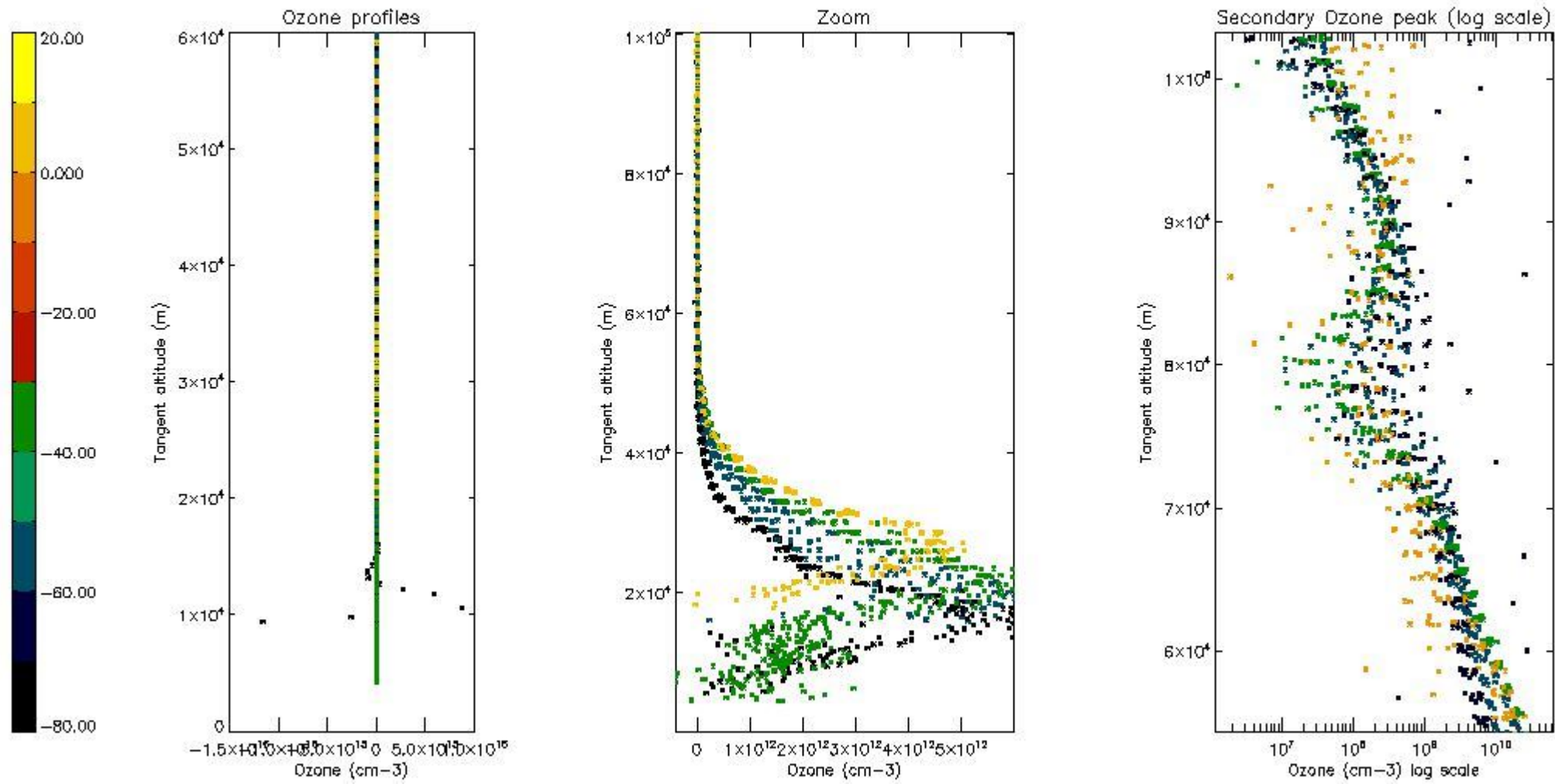
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	23

STD < 10	19
STD < 5	14

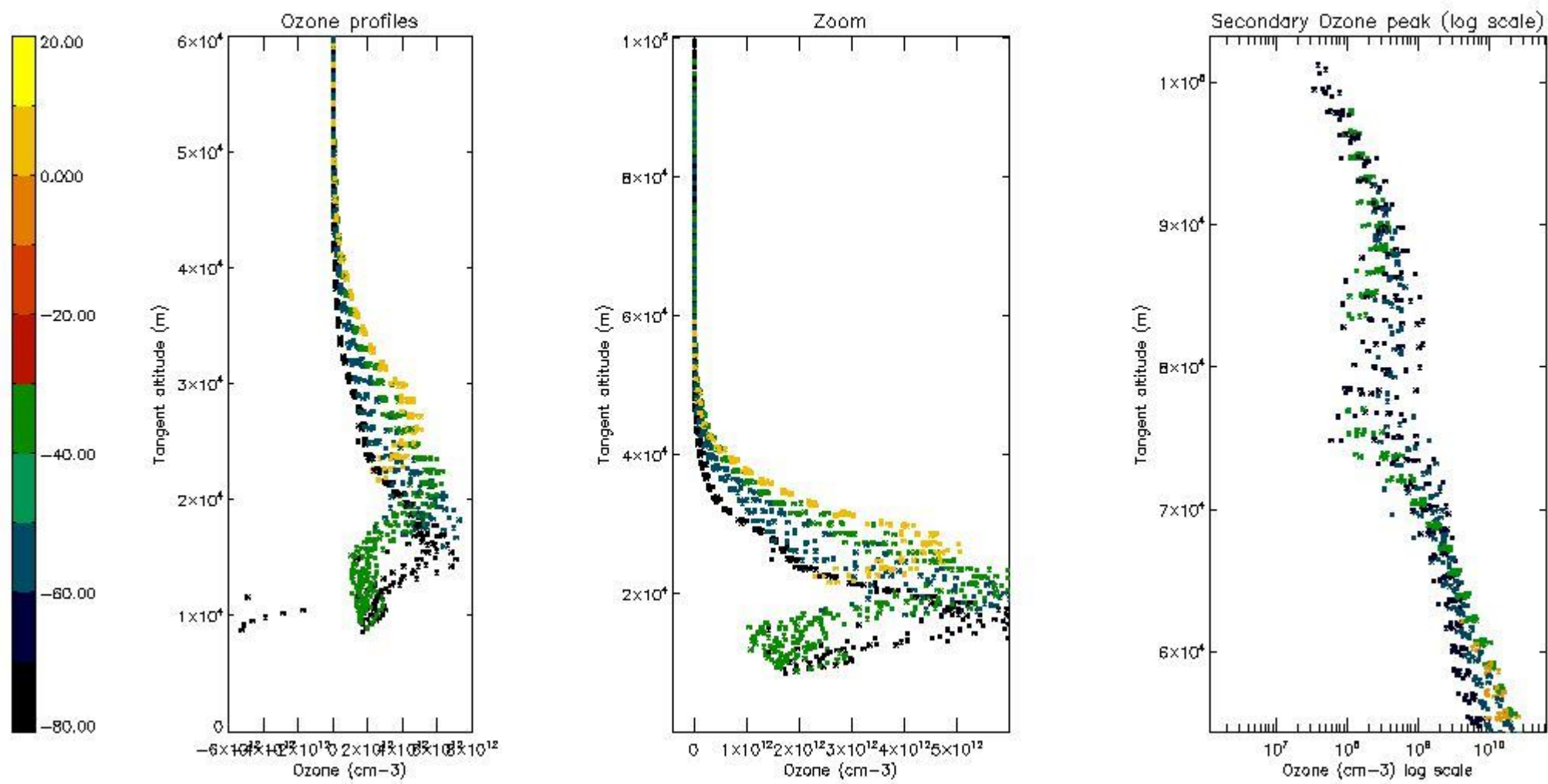
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



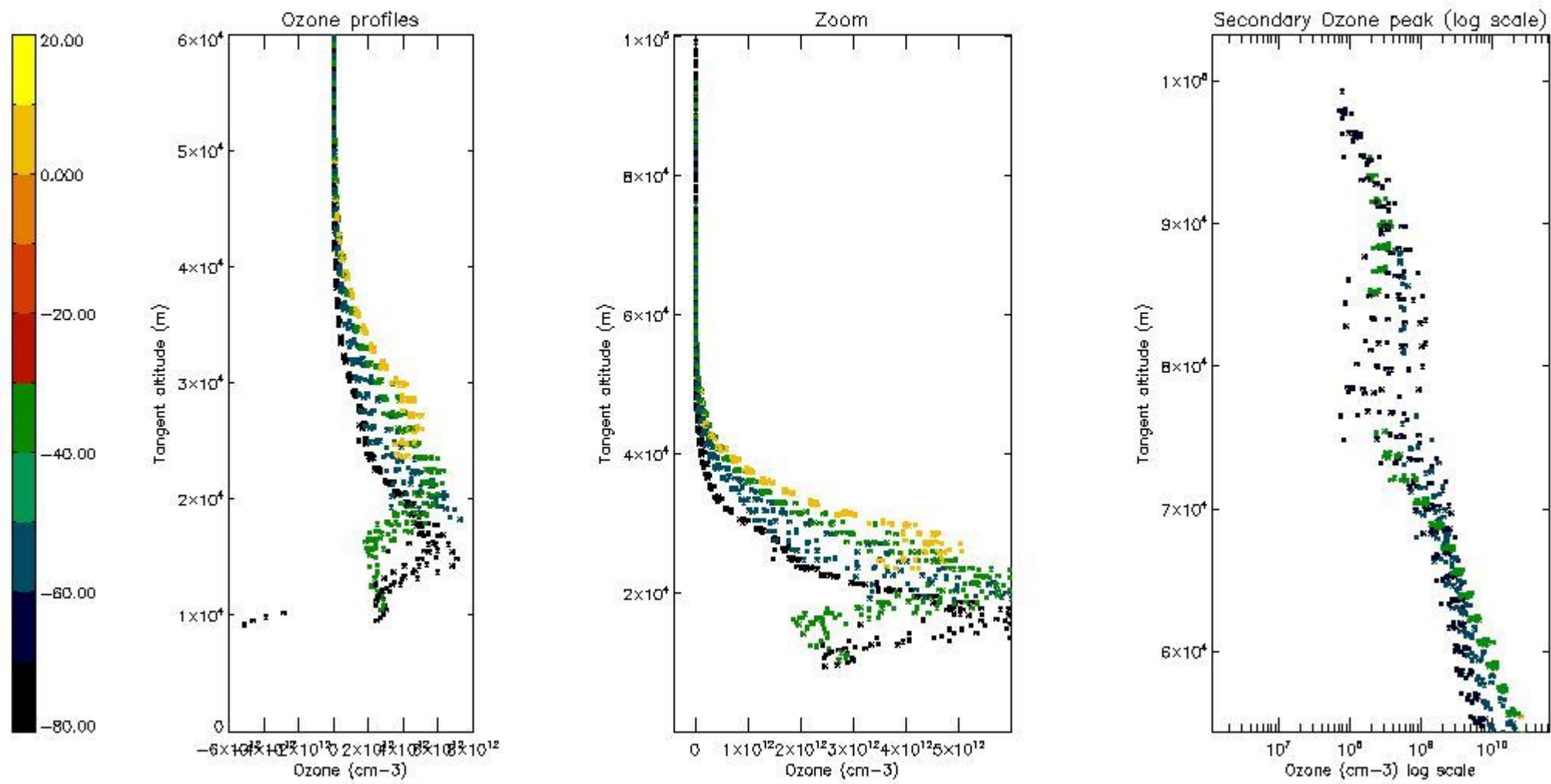
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



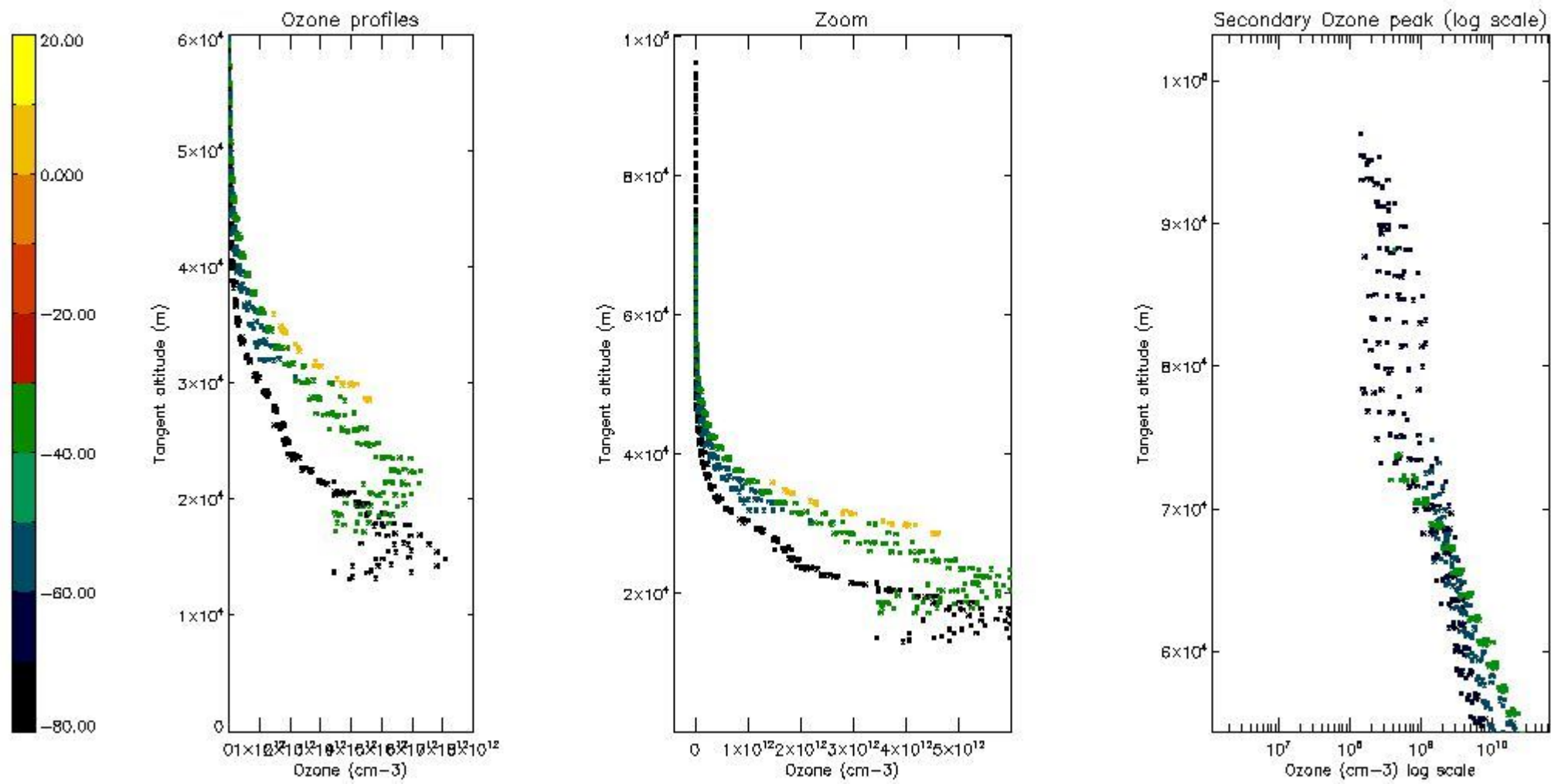
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



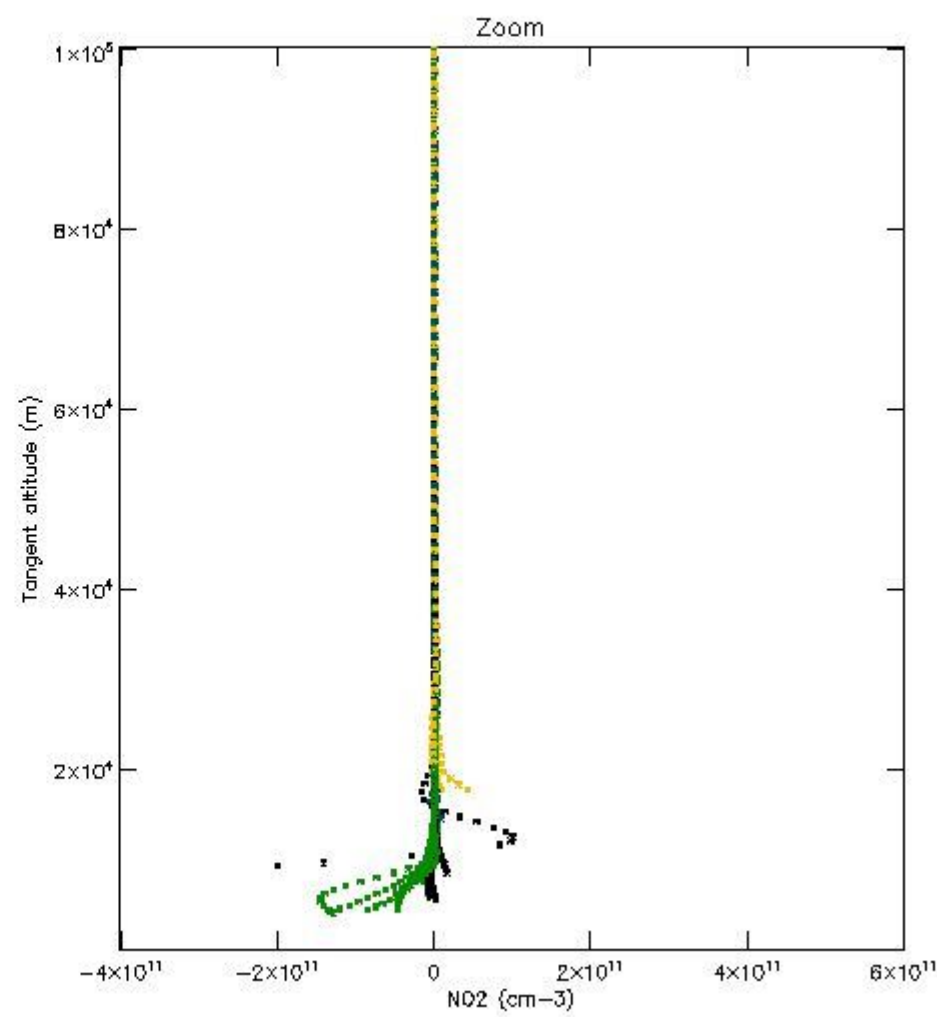
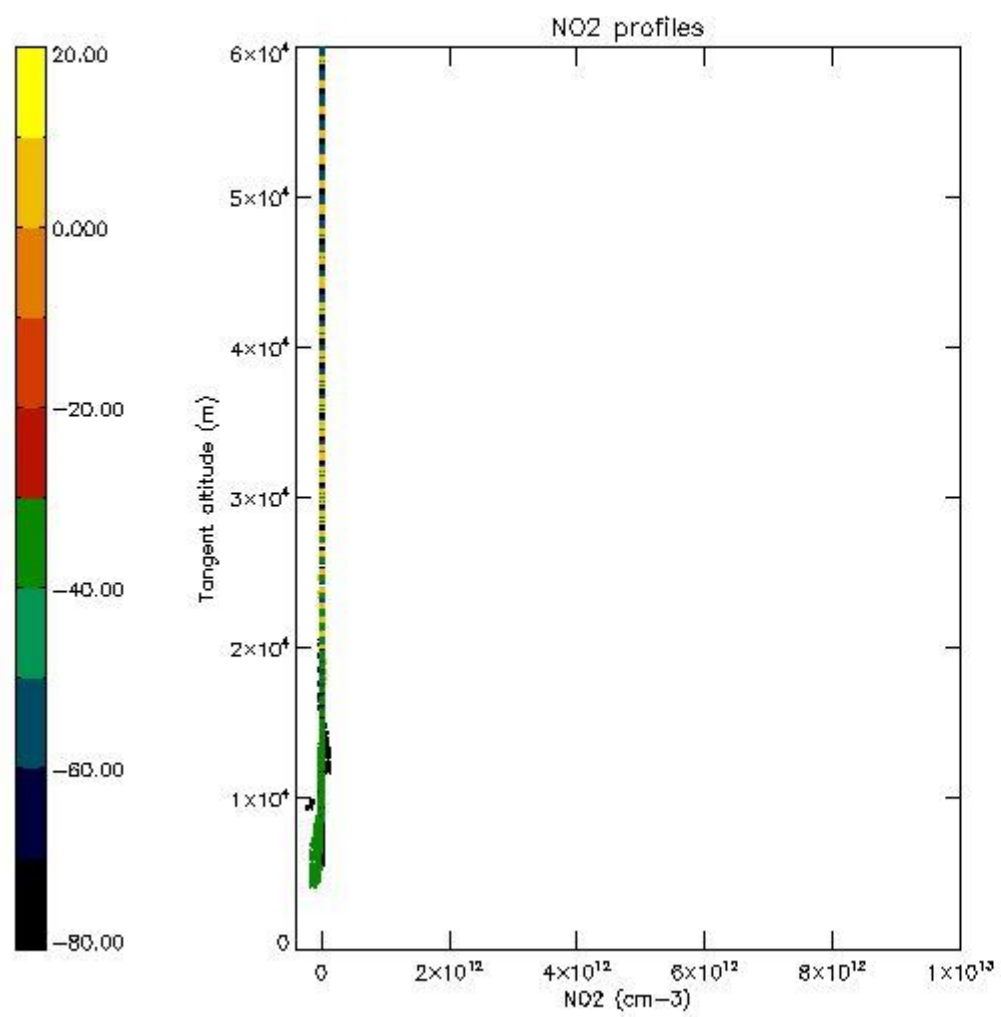
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



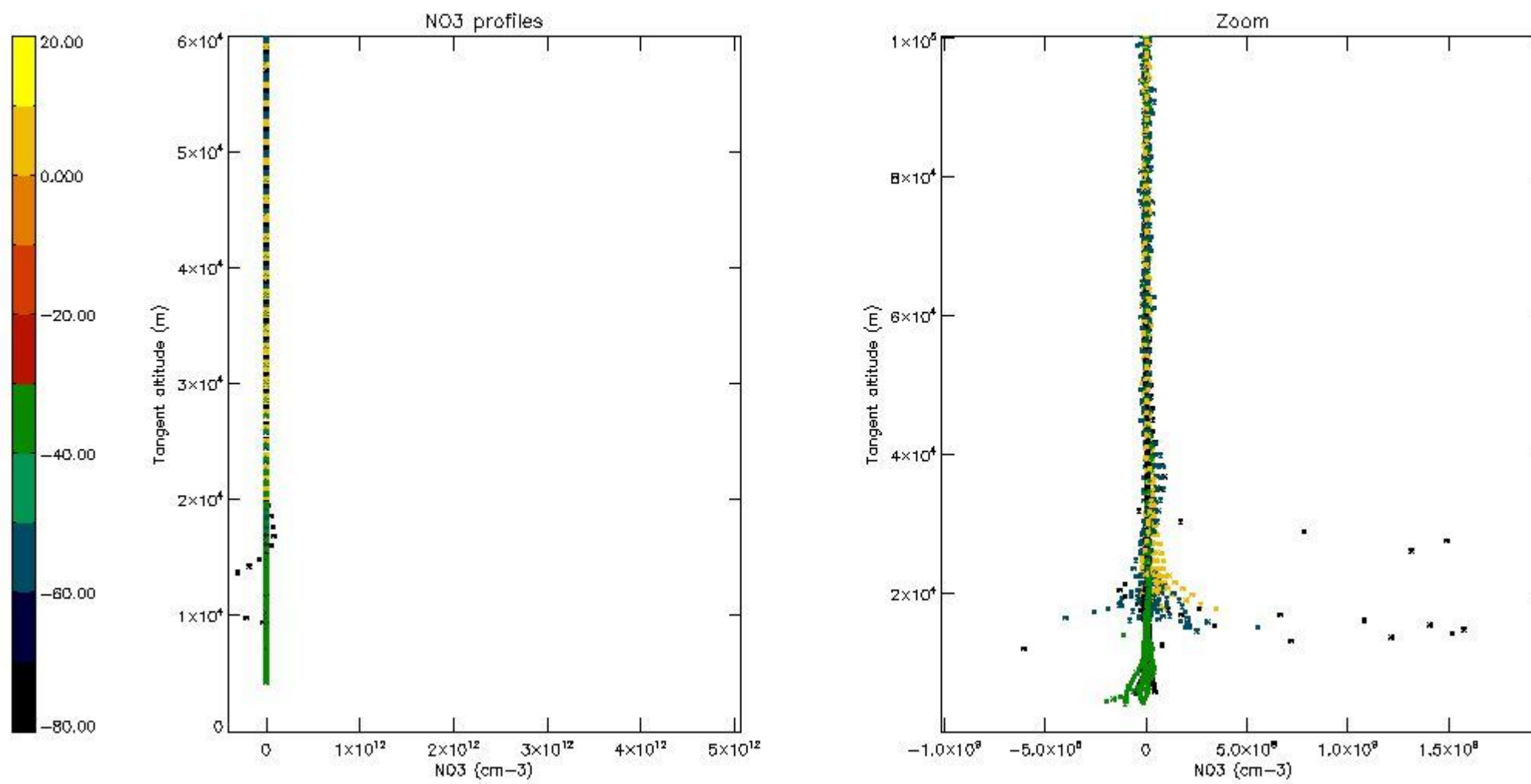
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



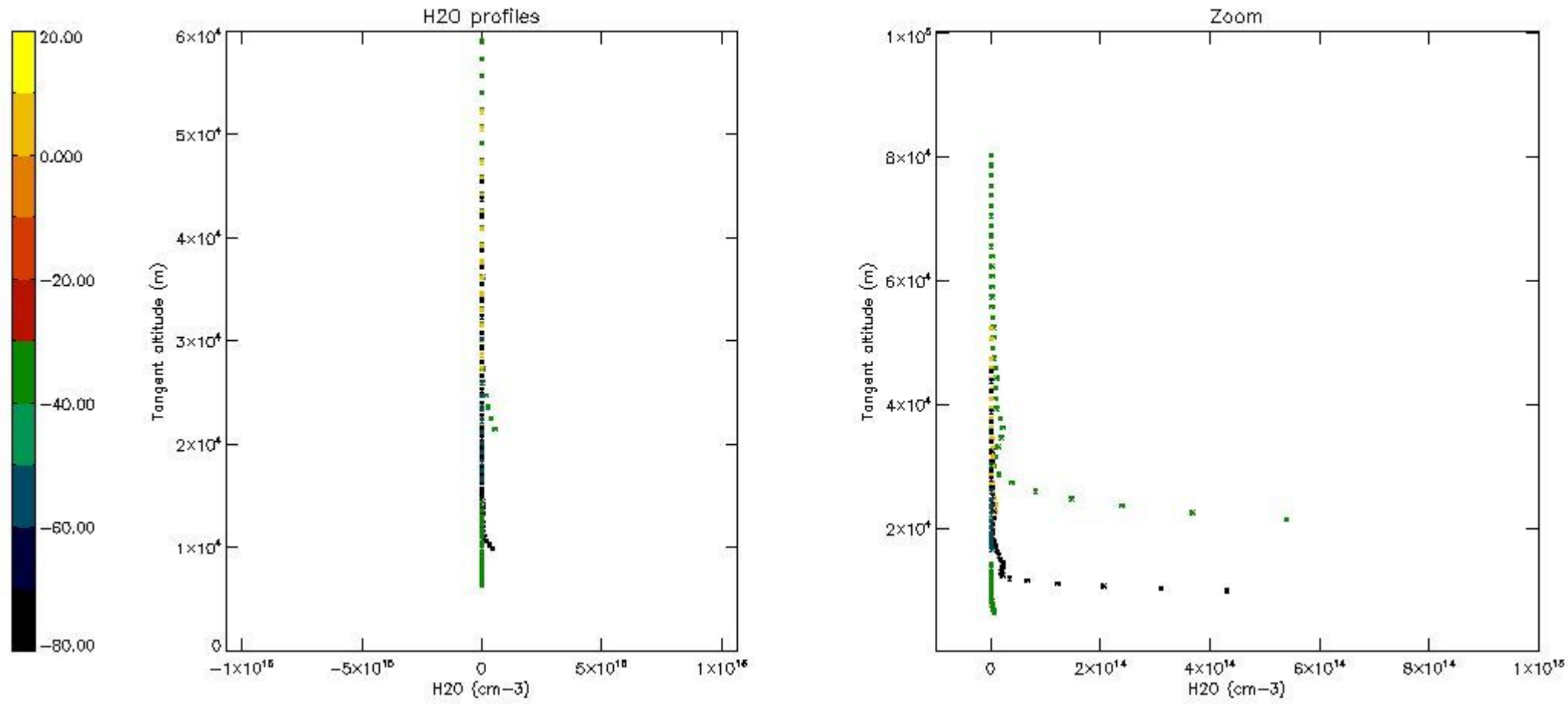
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



*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.

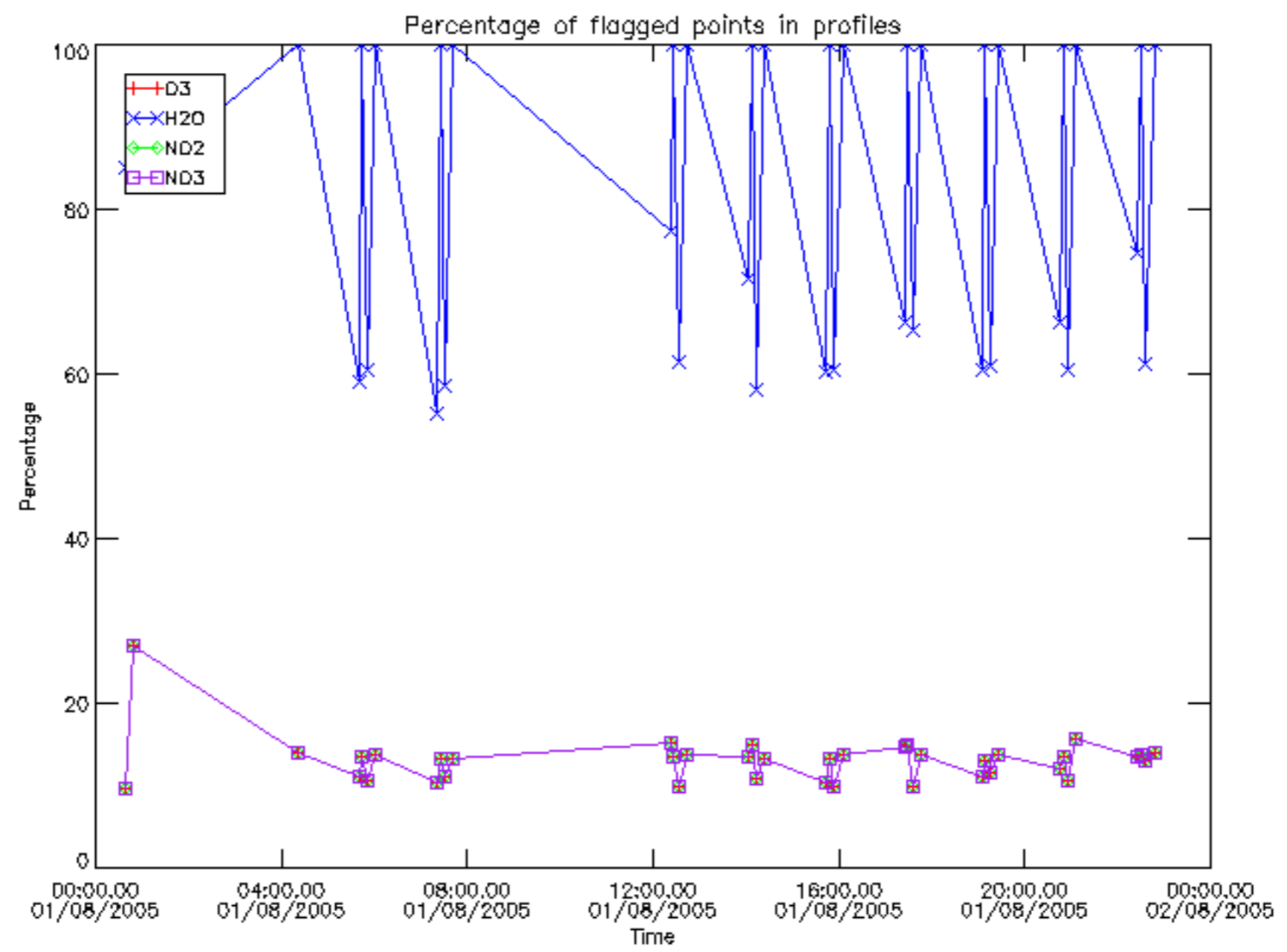


## 6. Auxiliary Data Files used for the production reported in section 2

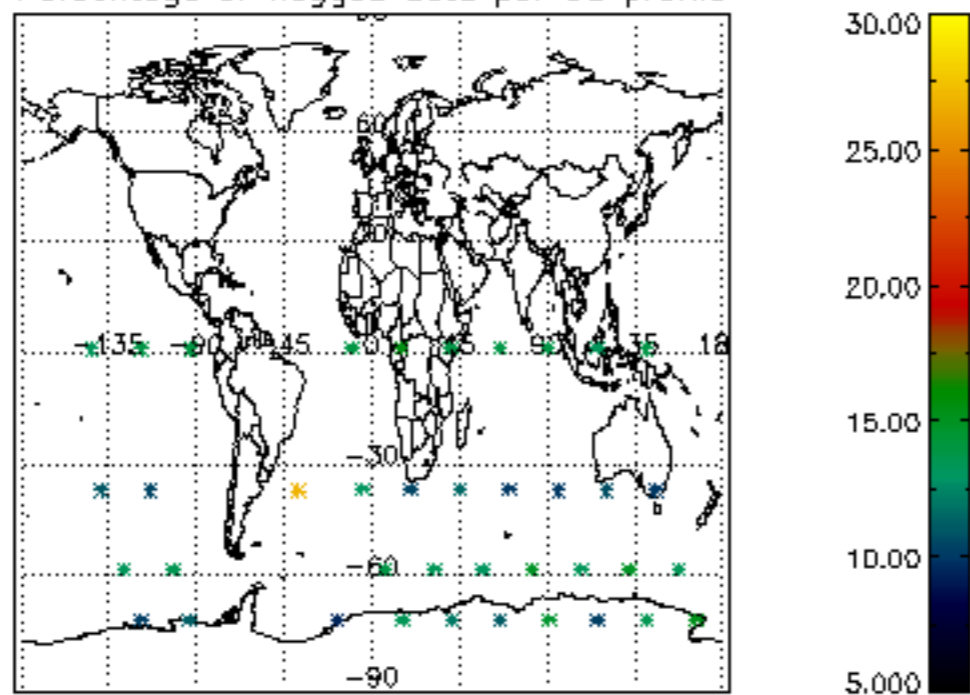
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	01-AUG-2005 00:01:44
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	01-AUG-2005 00:01:44
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	01-AUG-2005 00:01:44

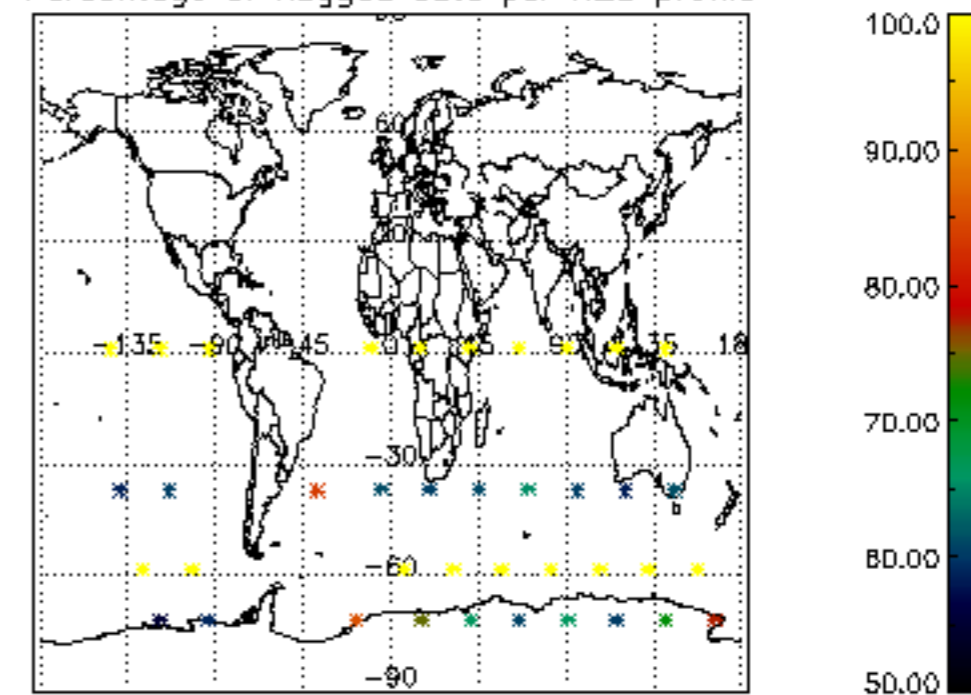




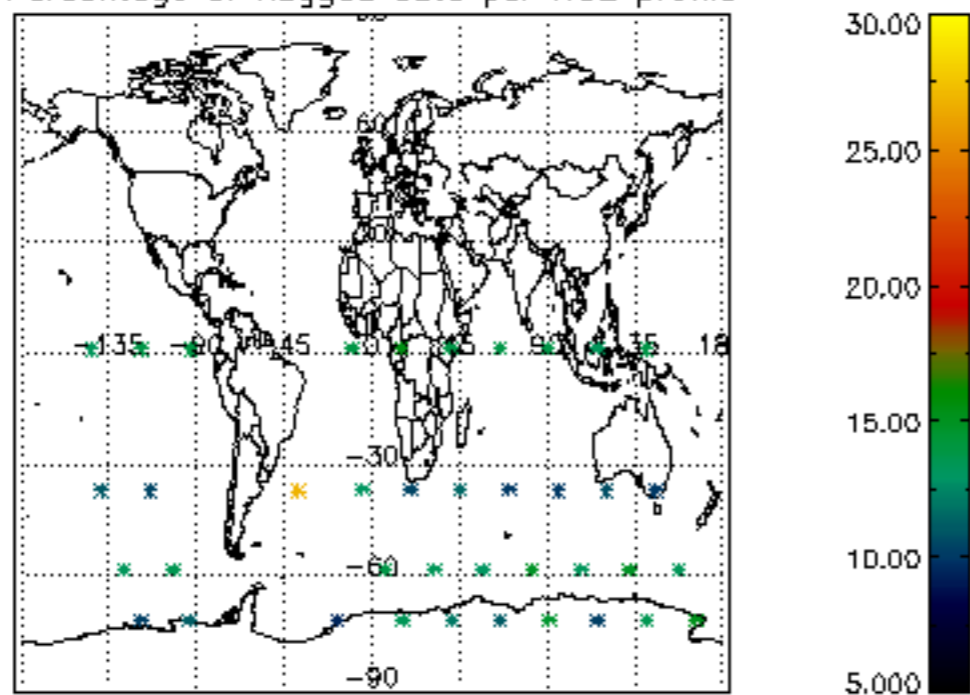
Percentage of flagged data per D3 profile



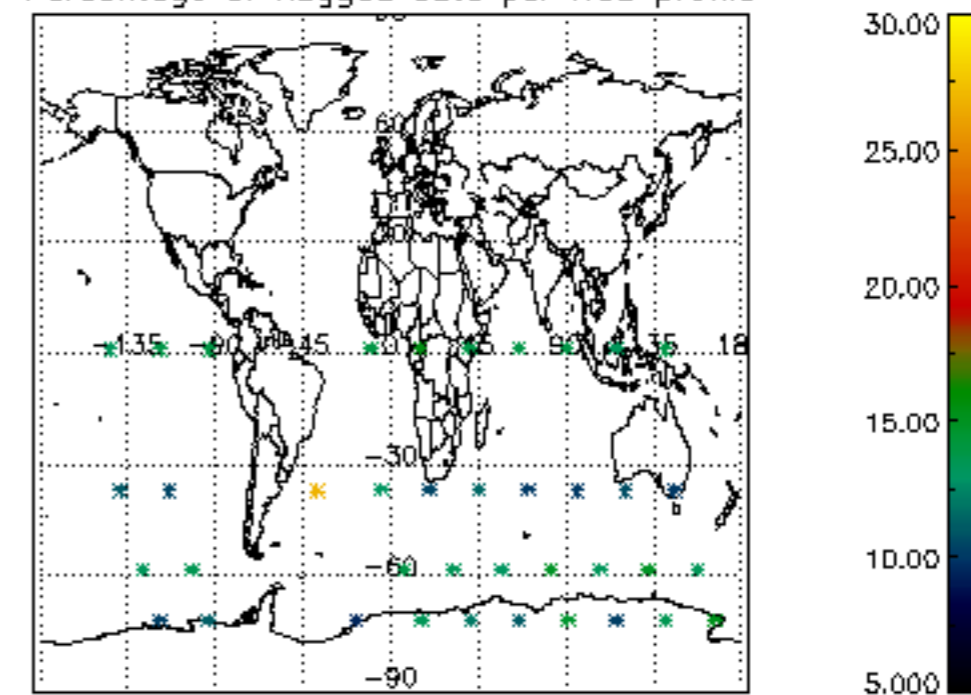
Percentage of flagged data per H2O profile

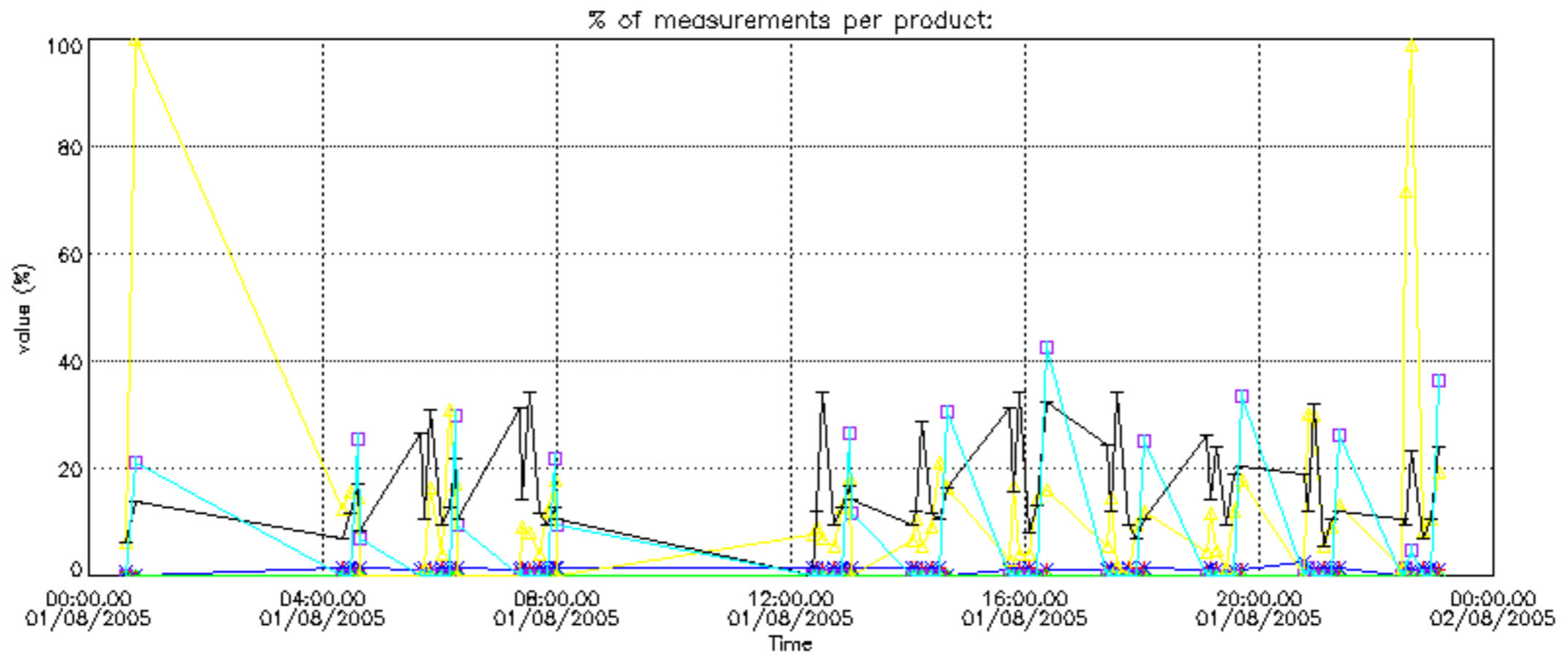


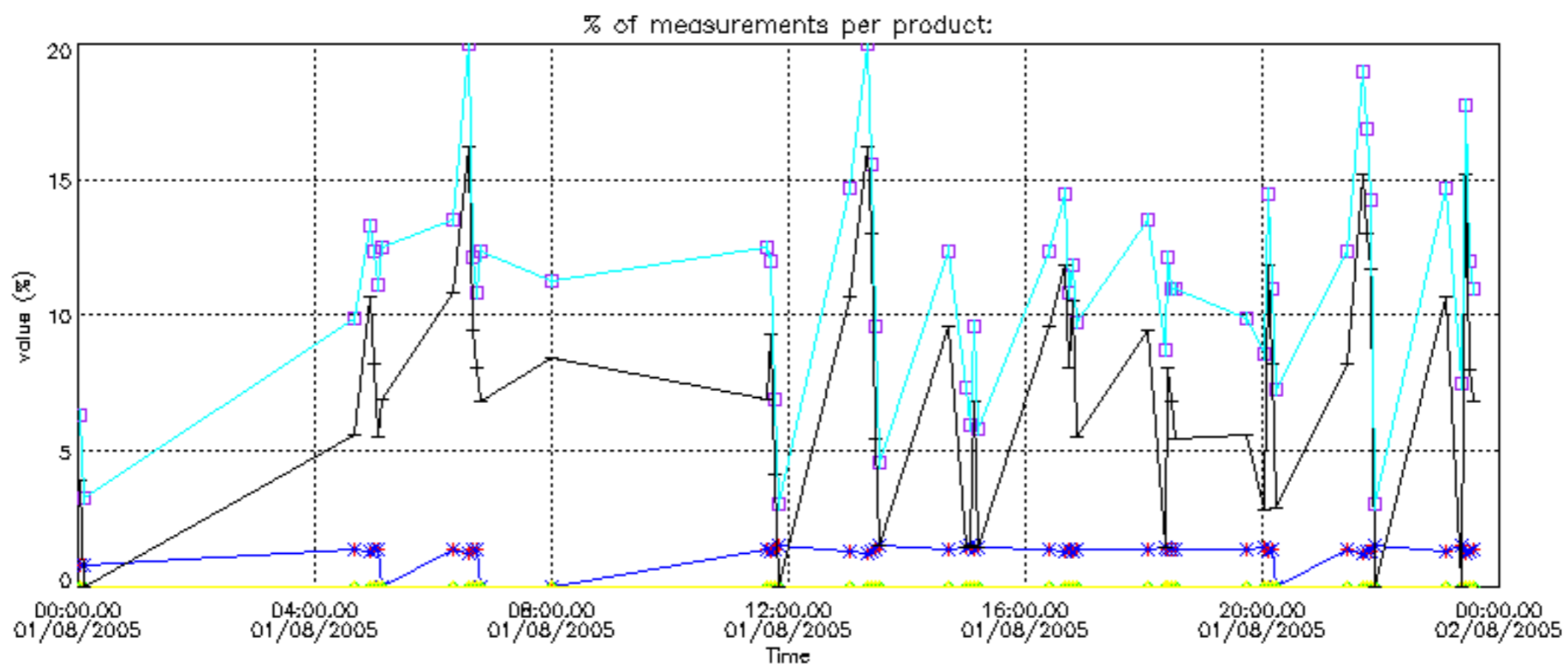
Percentage of flagged data per NO2 profile



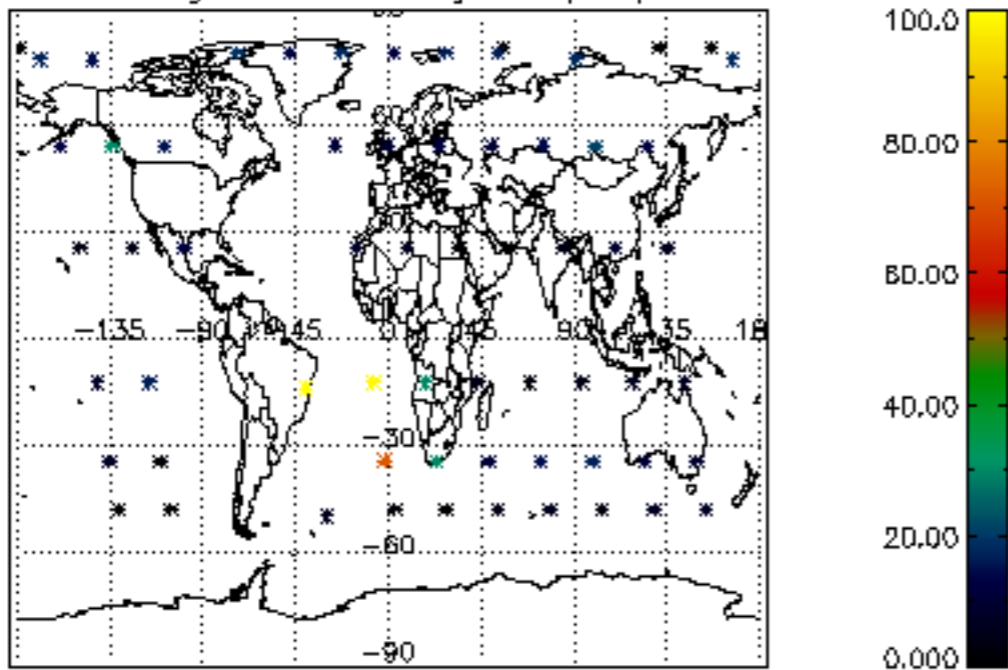
Percentage of flagged data per NO3 profile



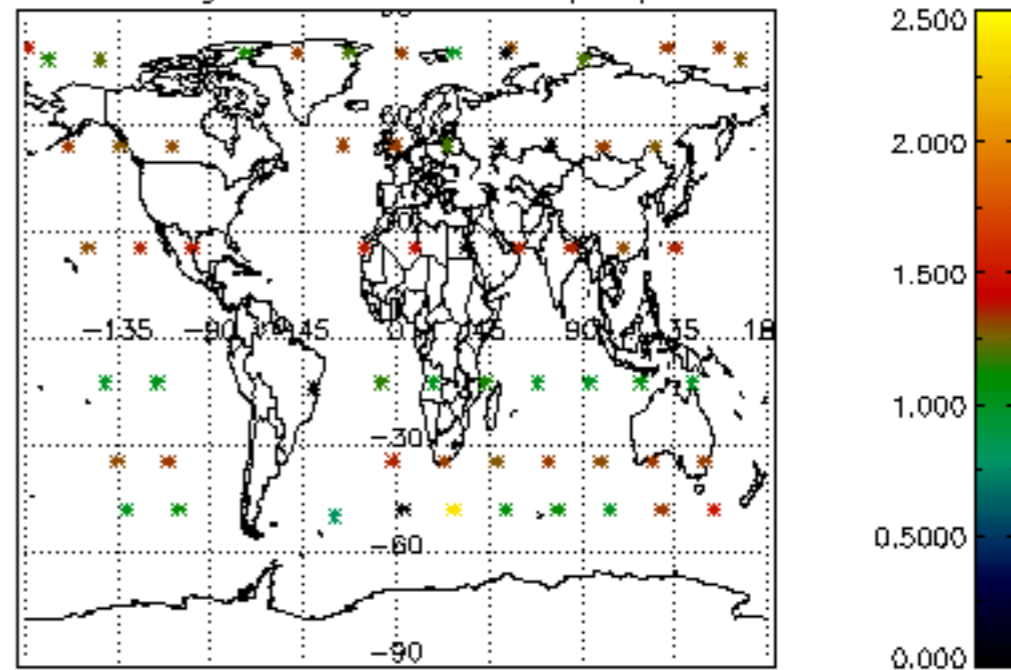




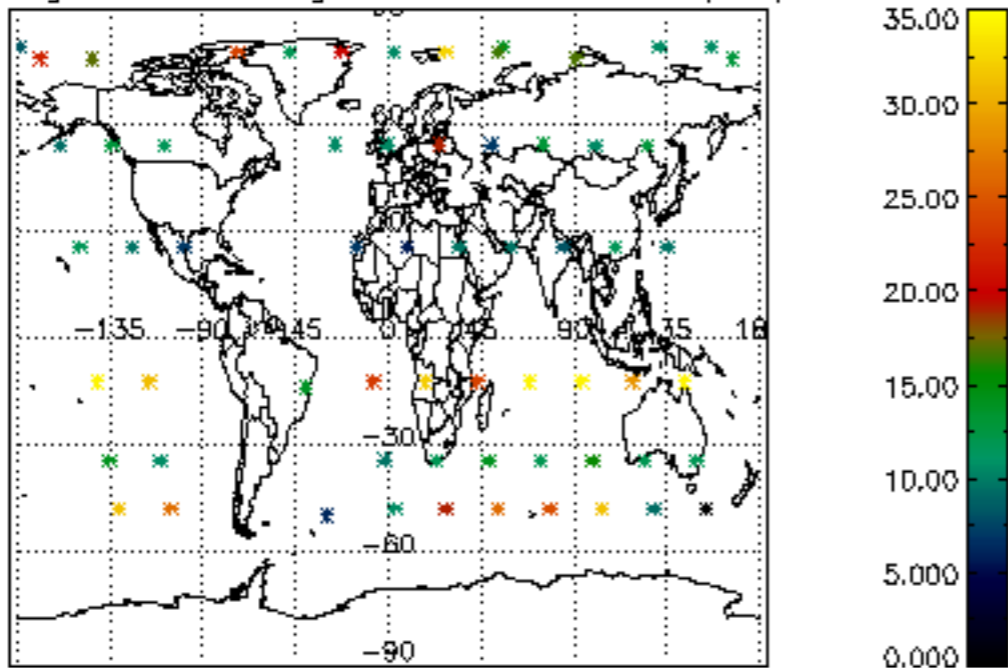
Percentage of cosmic ray hits per profile



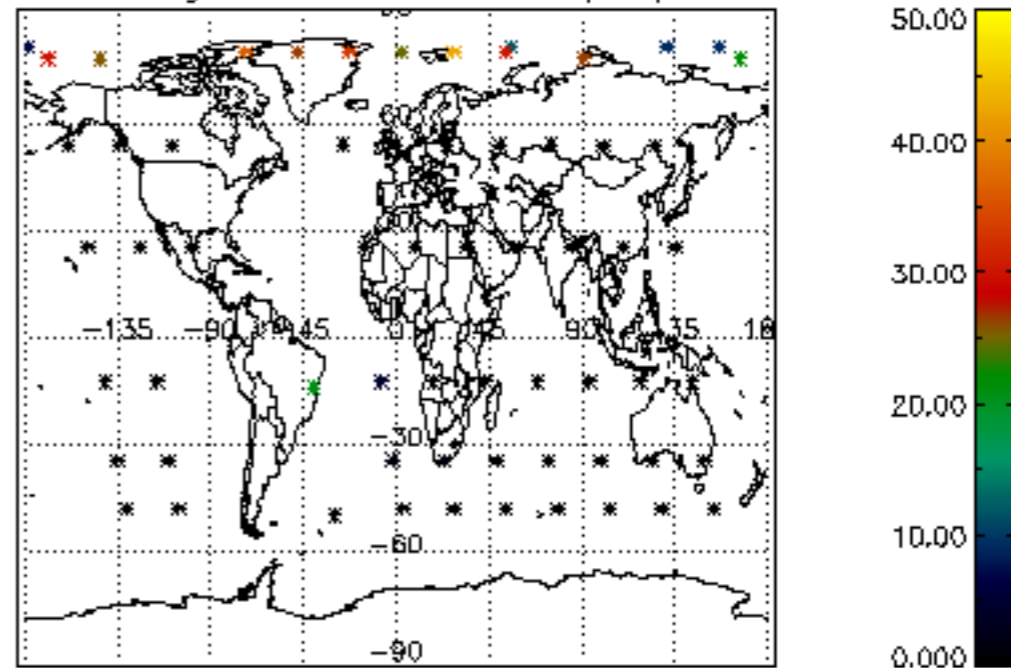
Percentage of datation errors per profile



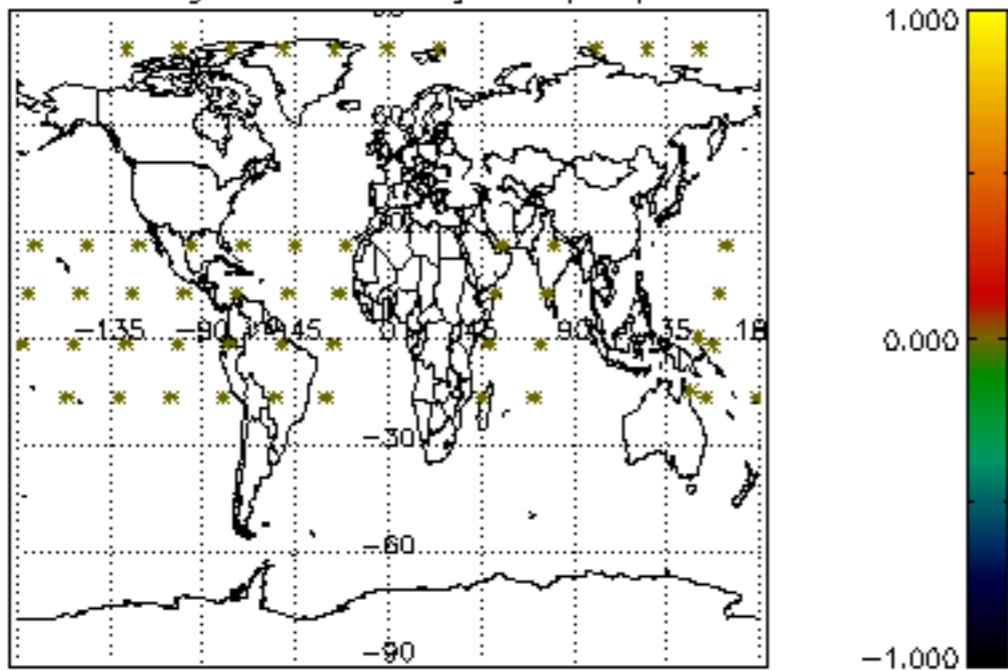
Percentage of star falling outside central band per profile



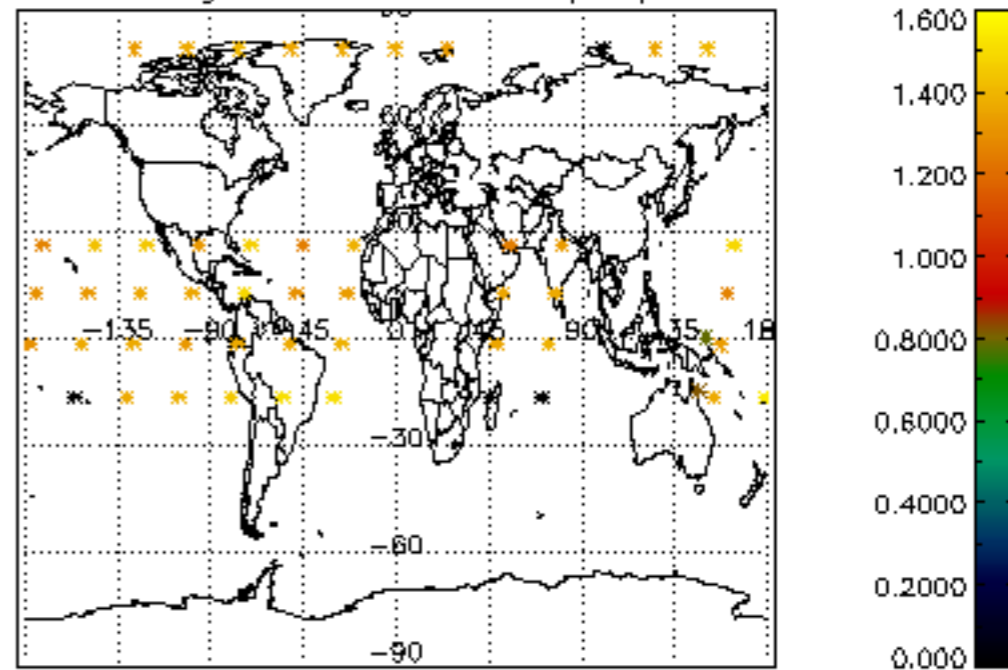
Percentage of saturation errors per profile



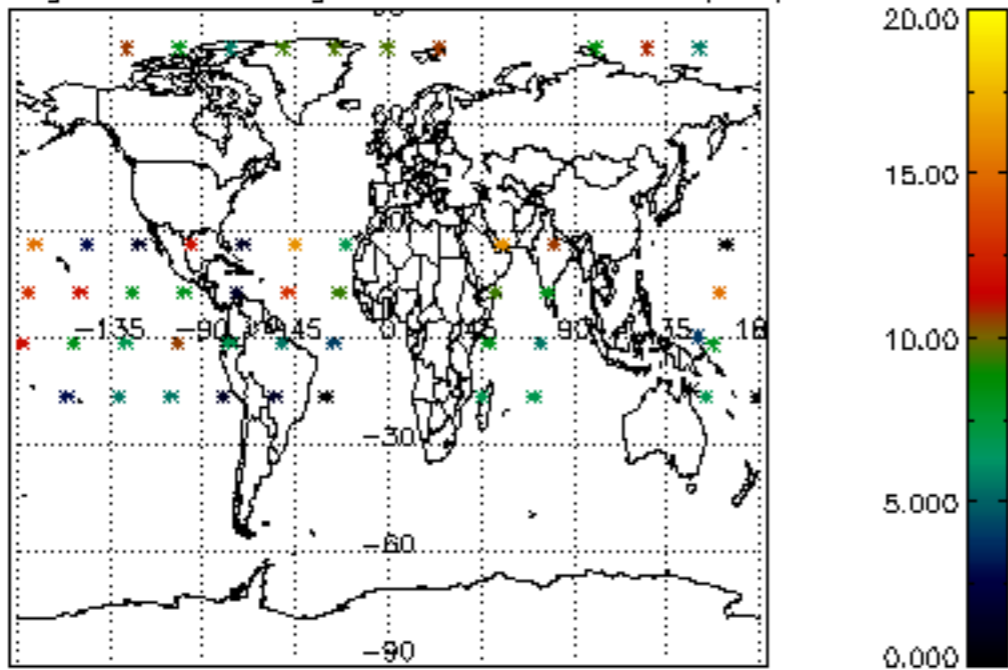
Percentage of cosmic ray hits per profile



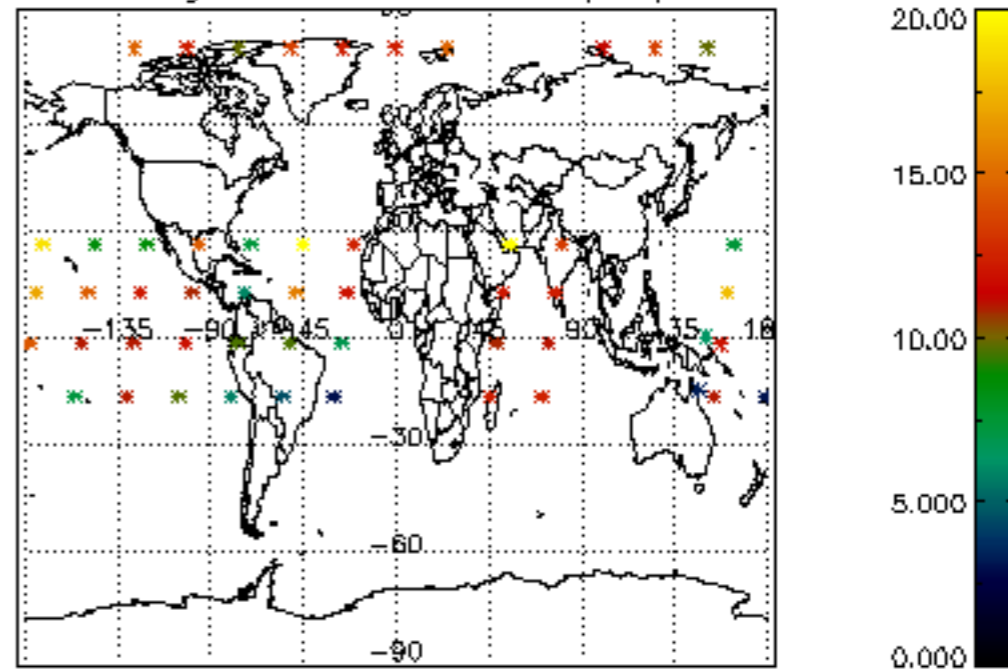
Percentage of datation errors per profile

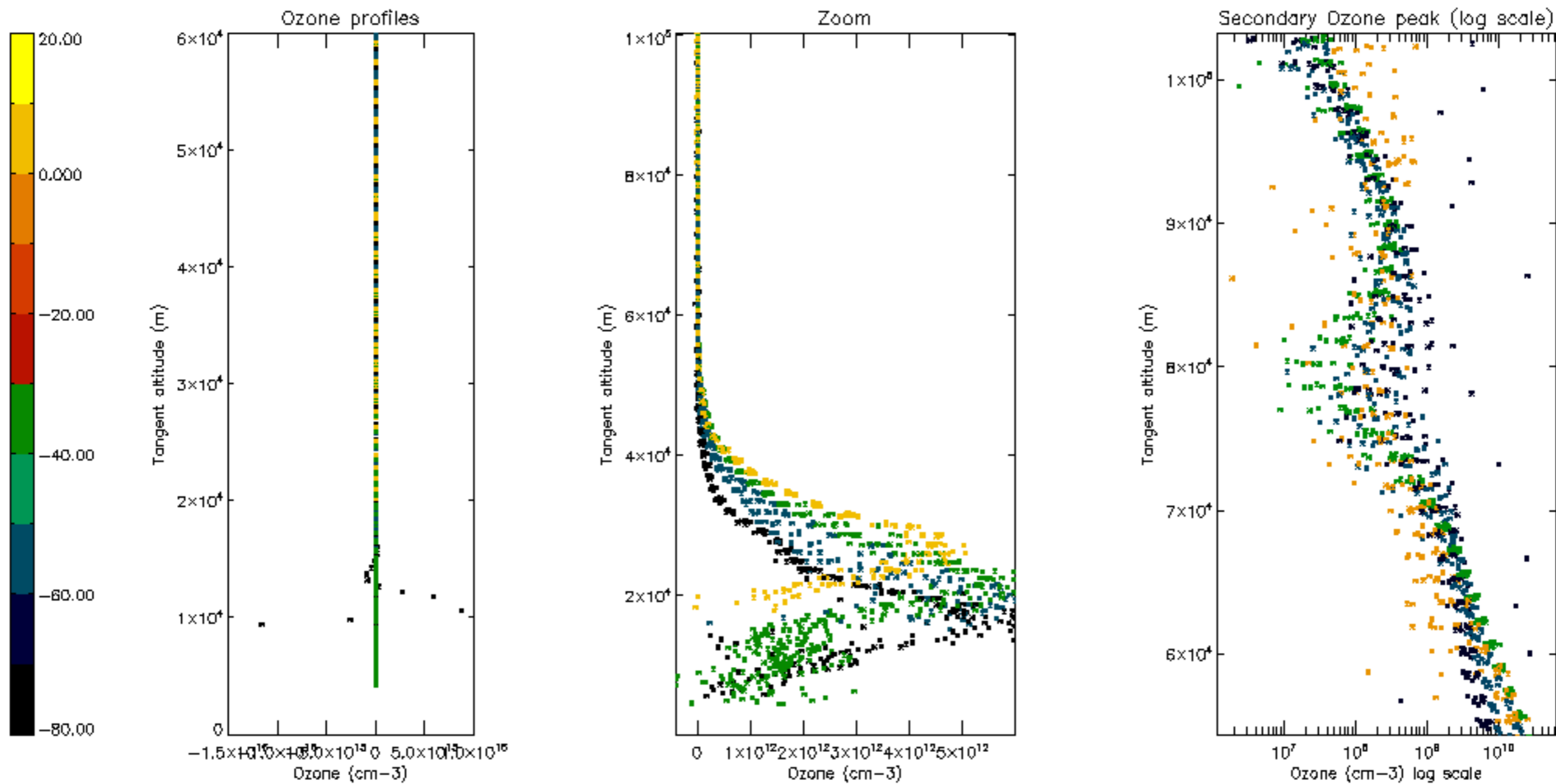


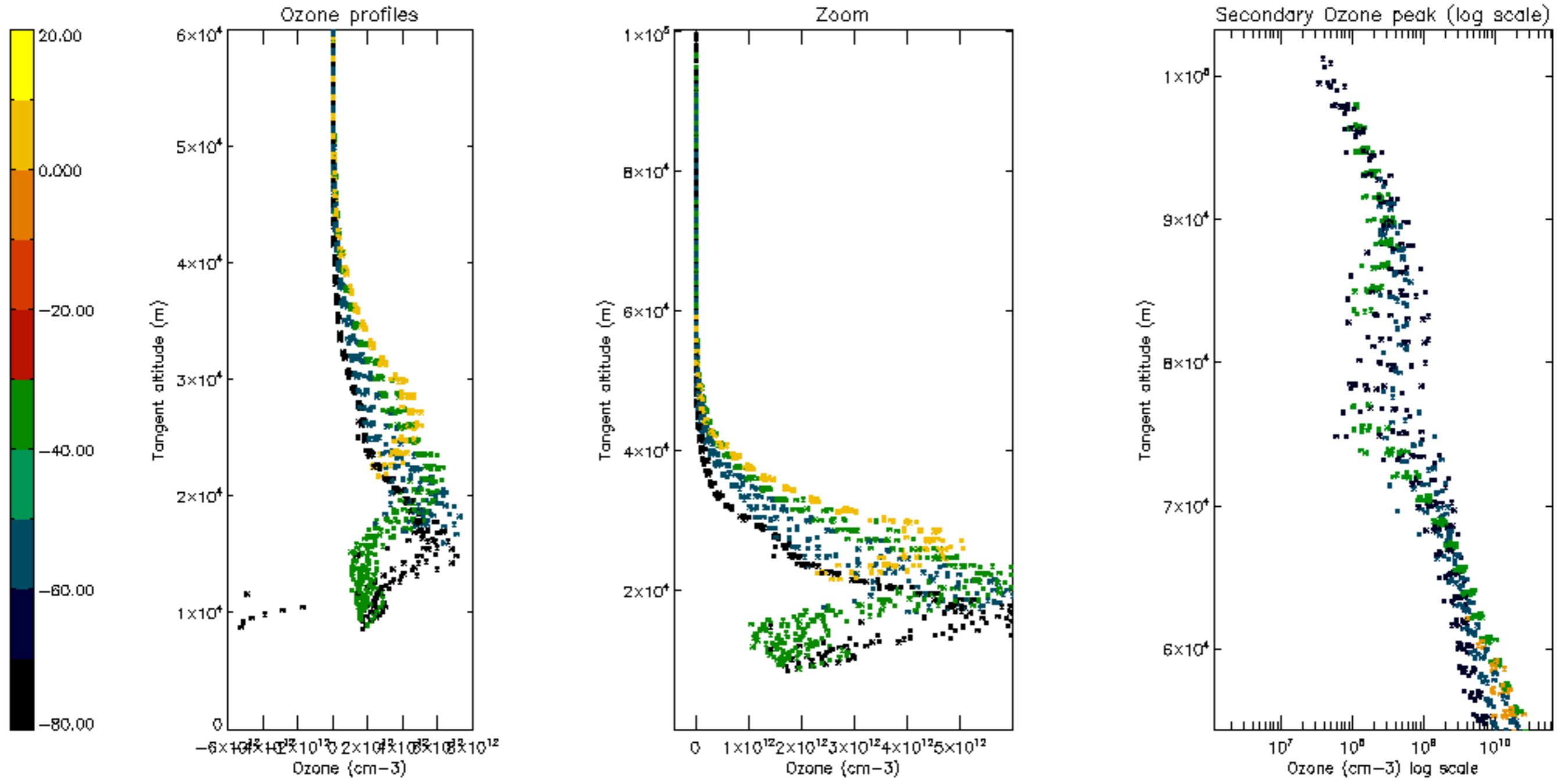
Percentage of star falling outside central band per profile



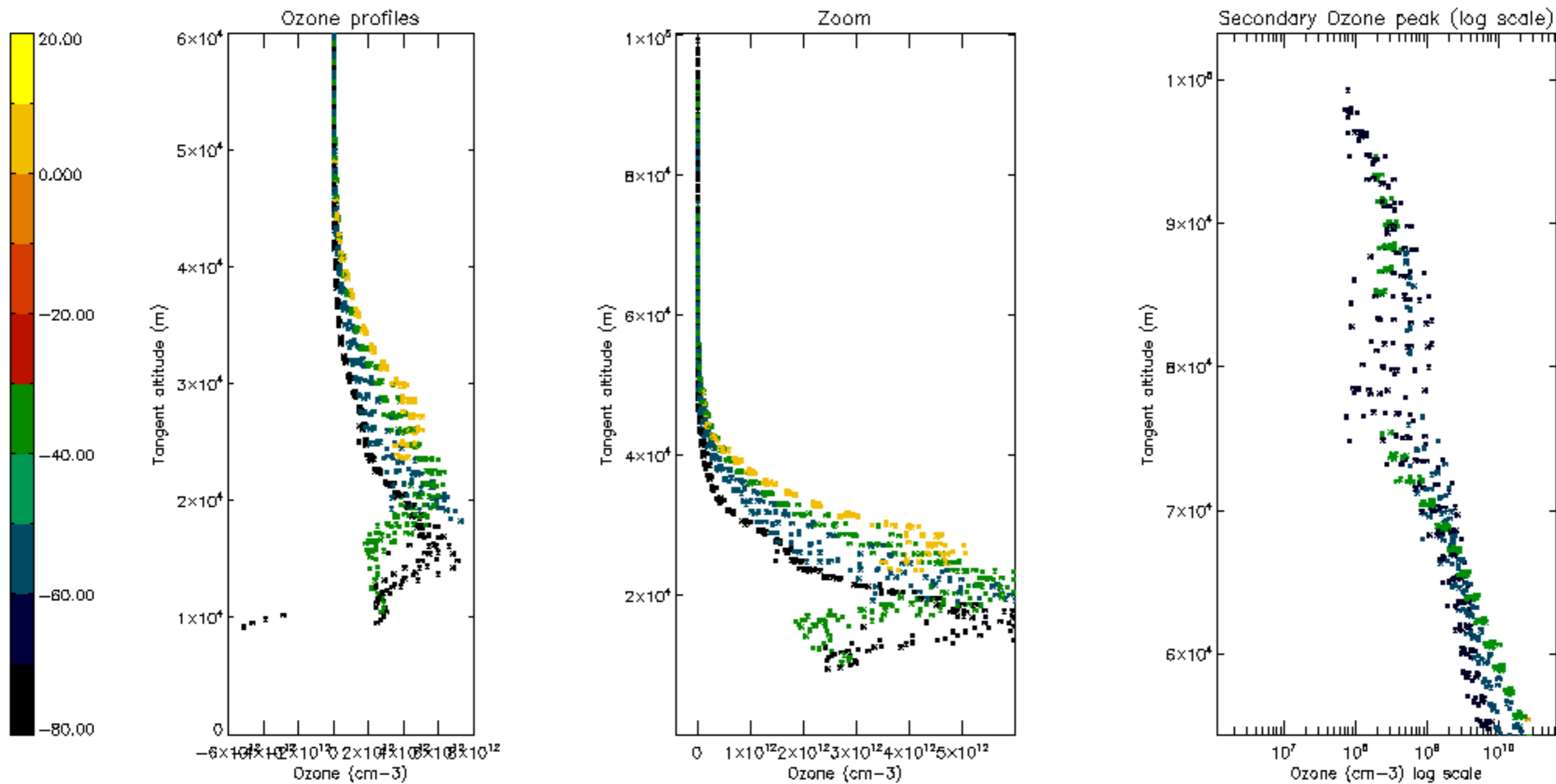
Percentage of saturation errors per profile

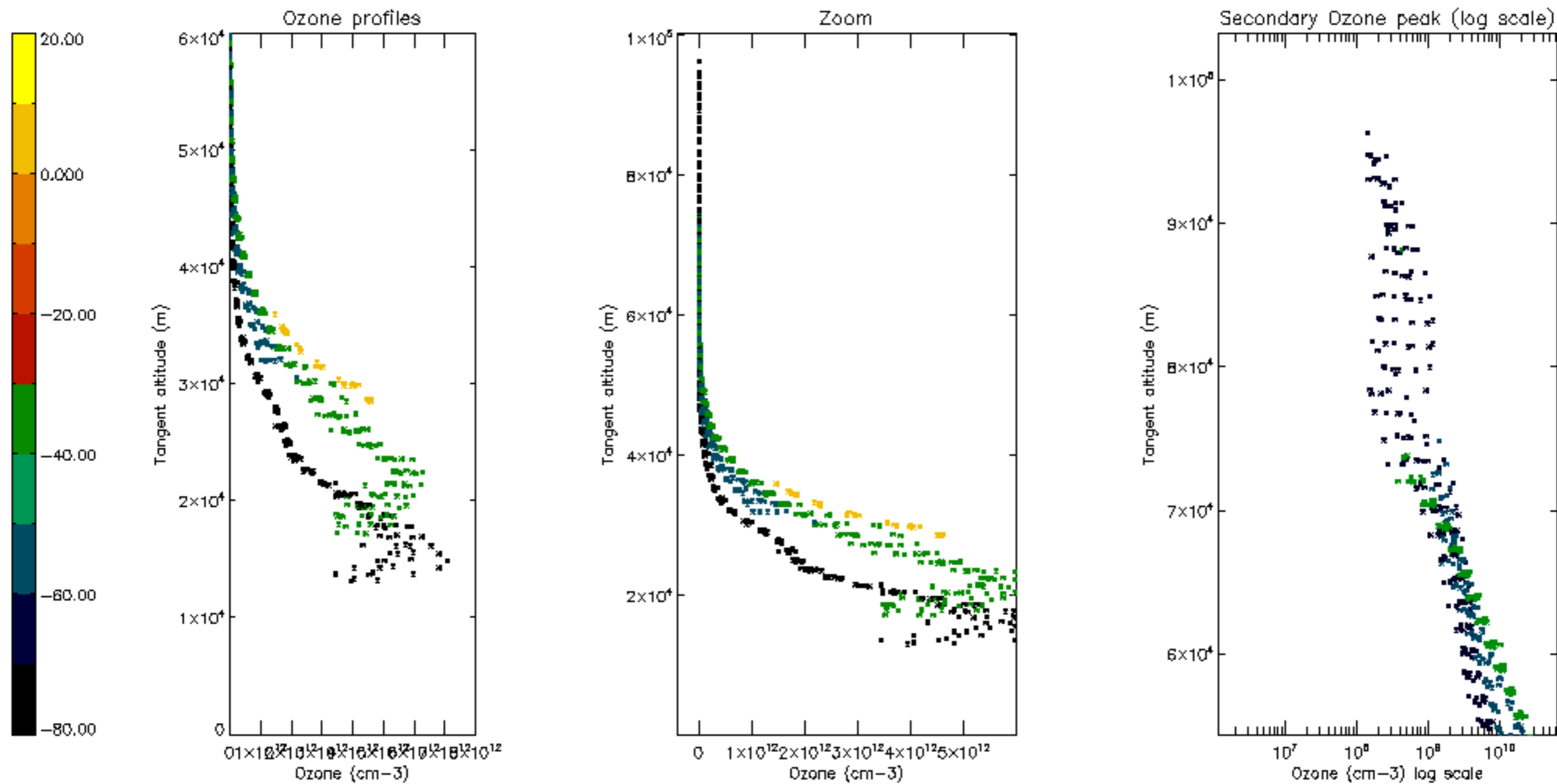


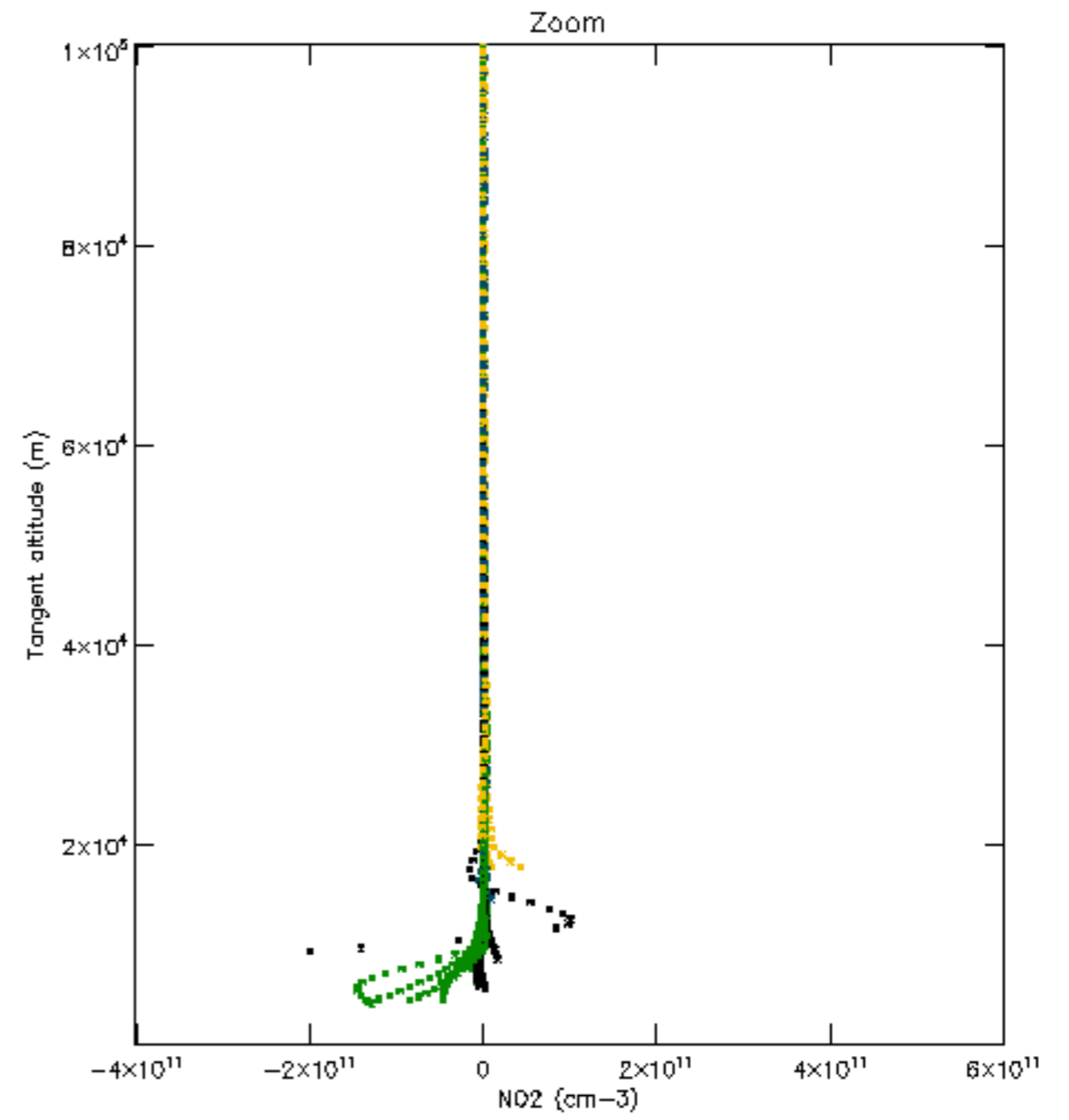
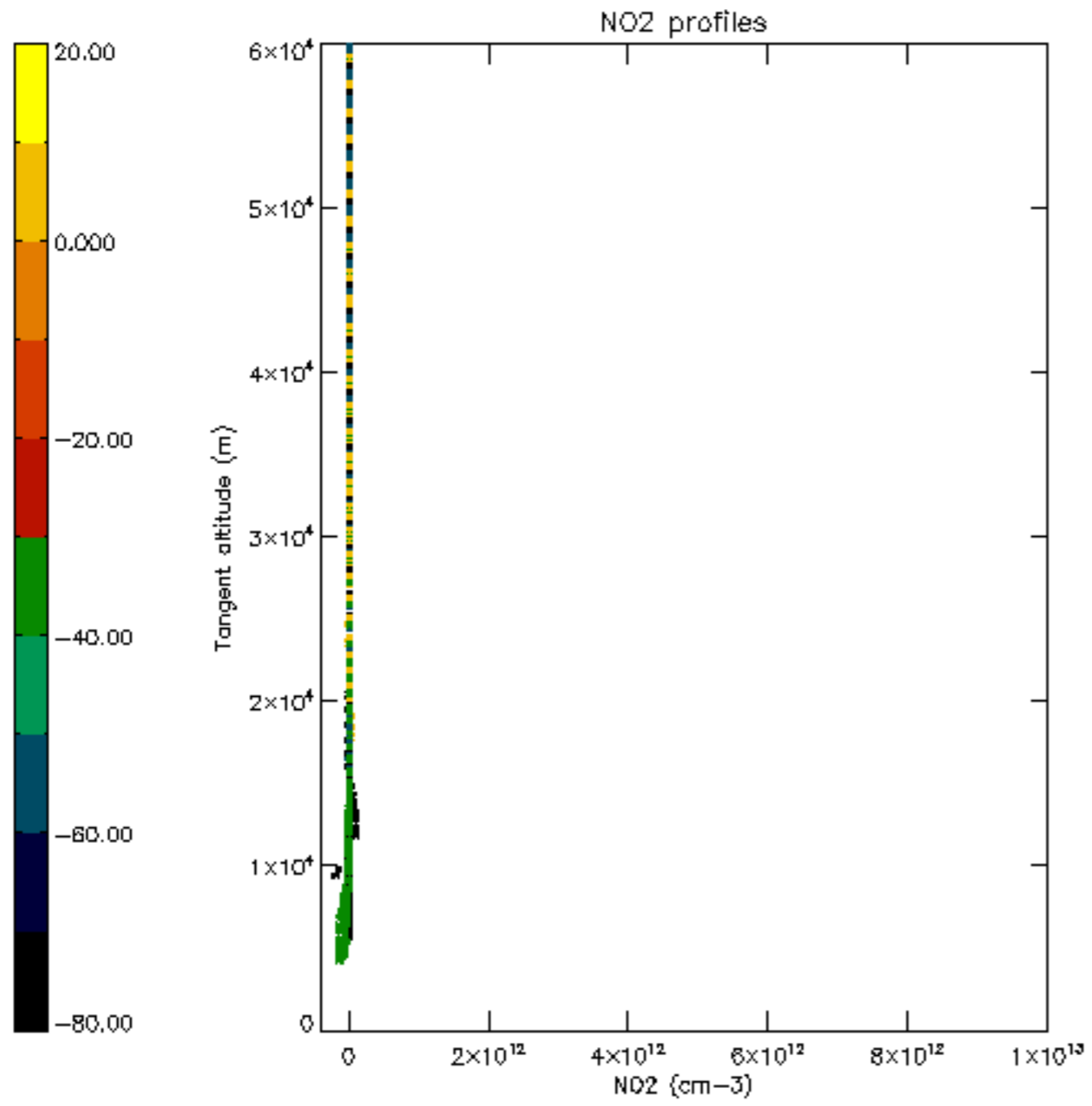


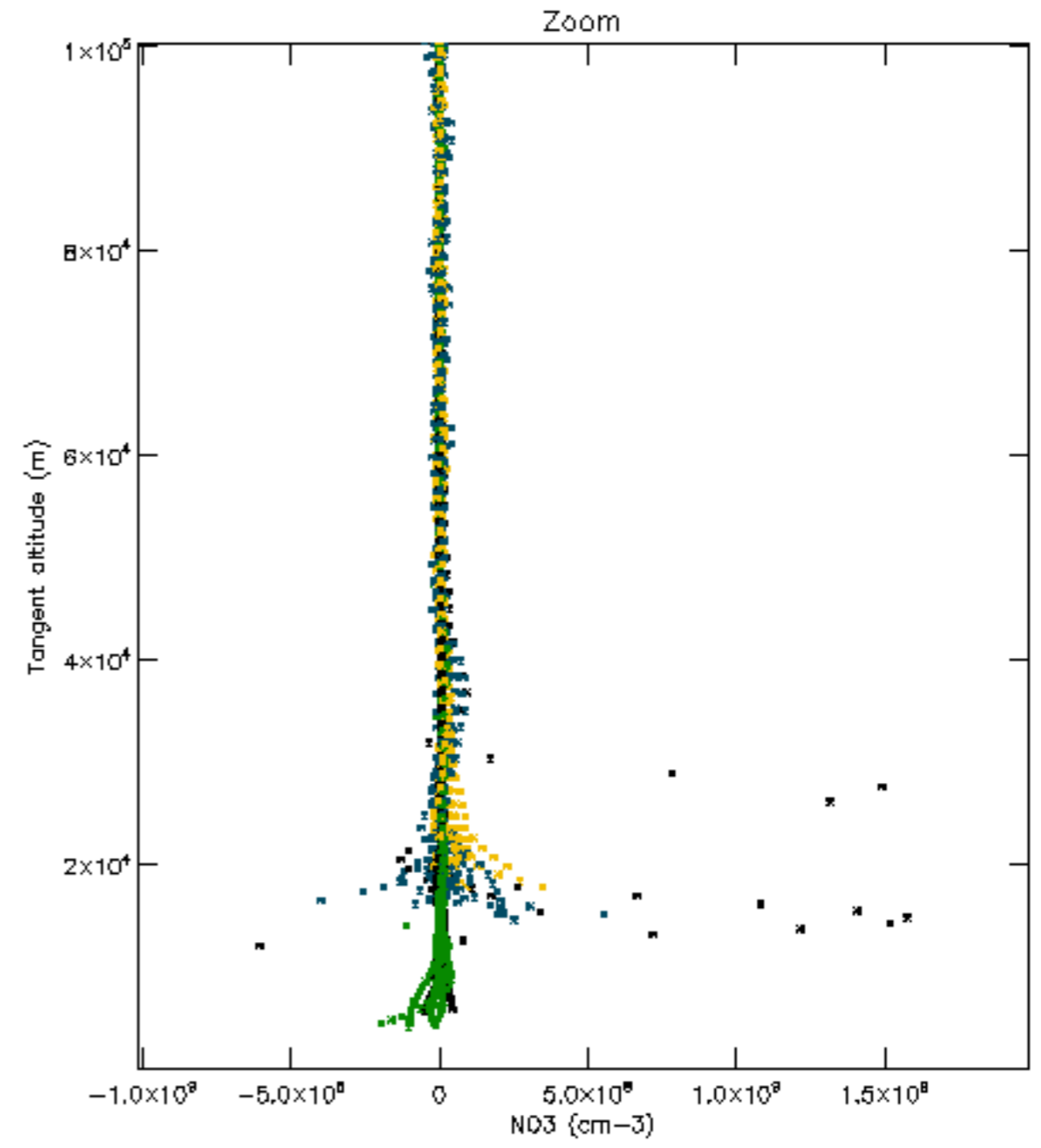
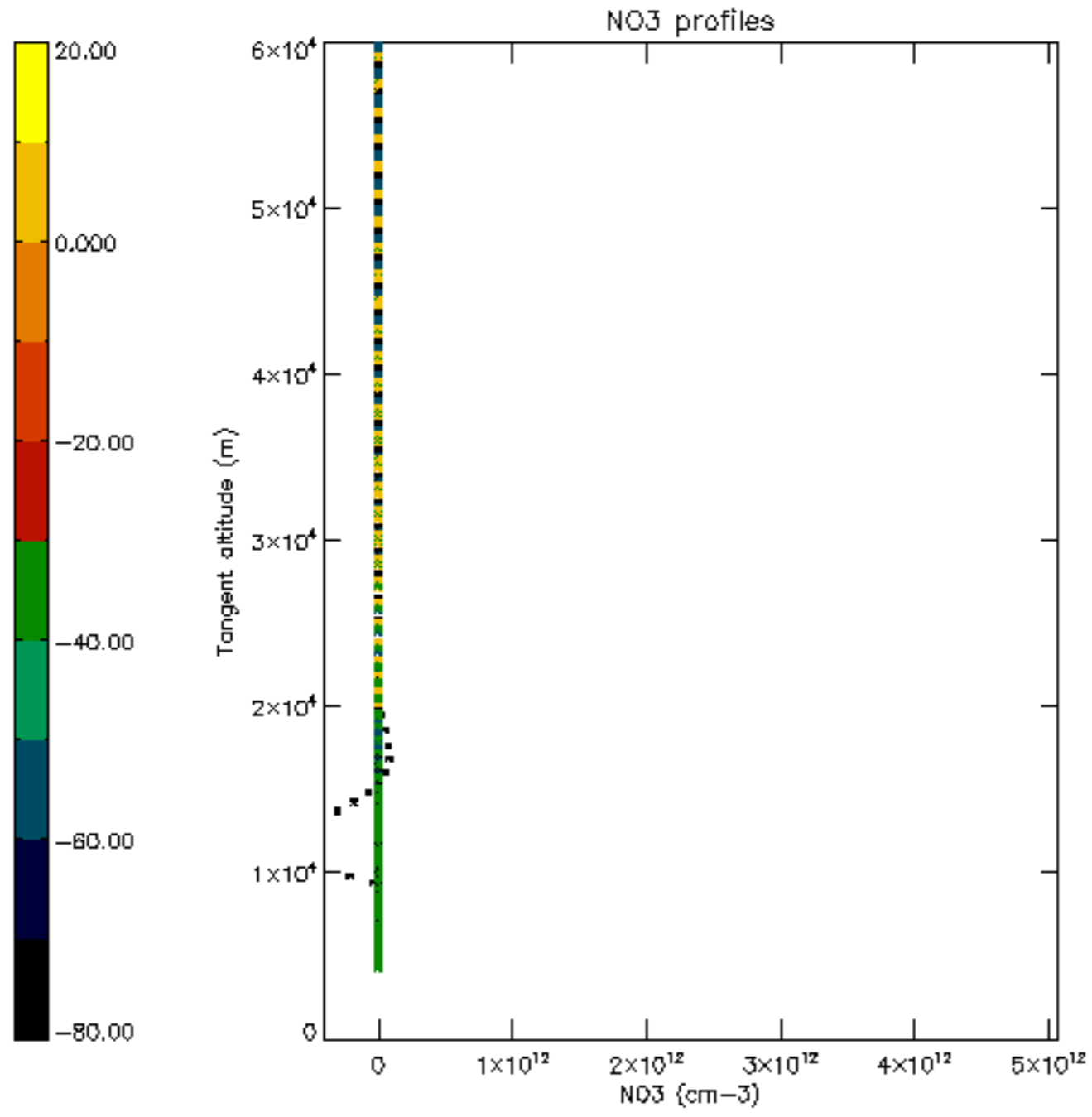


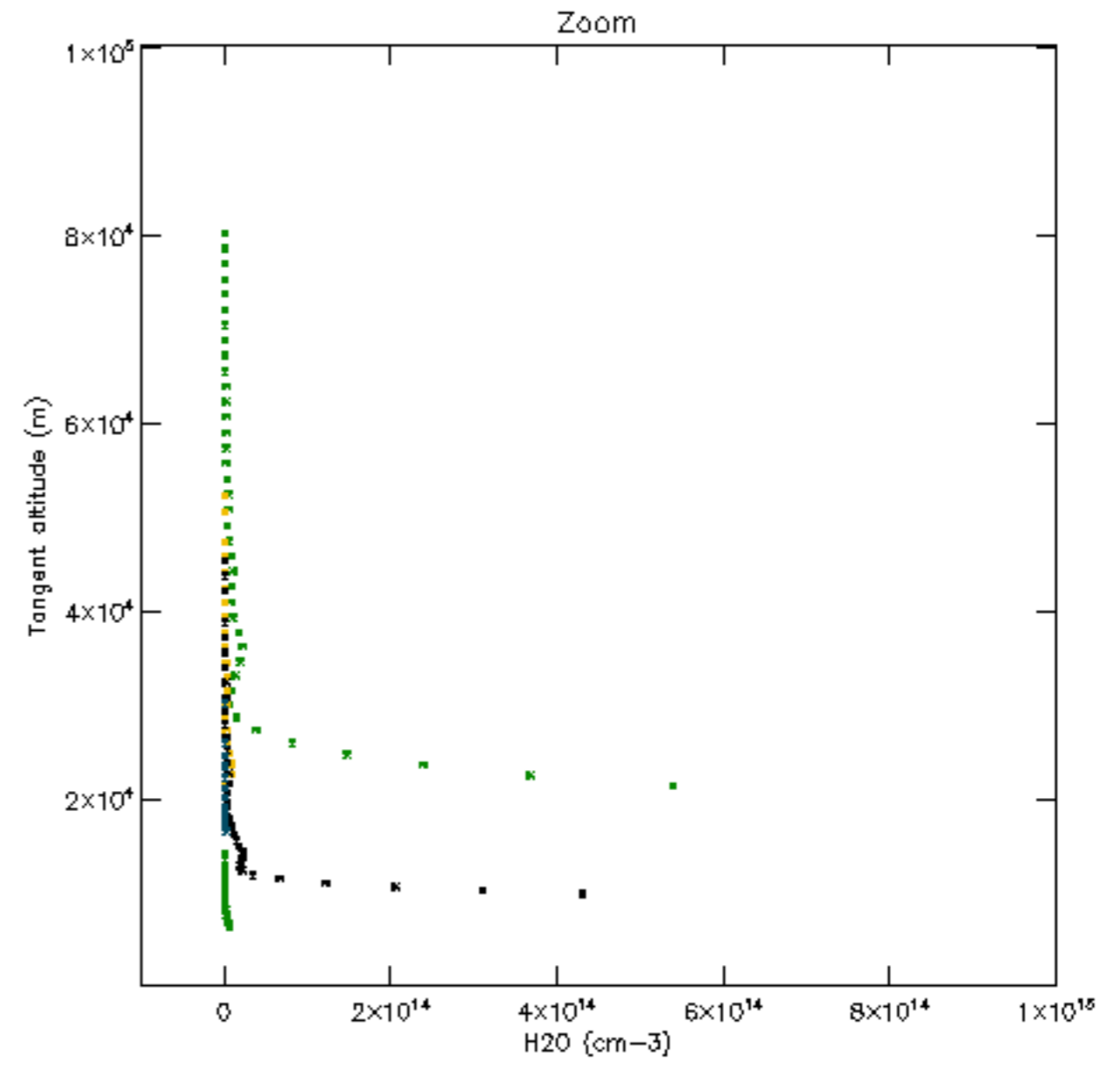
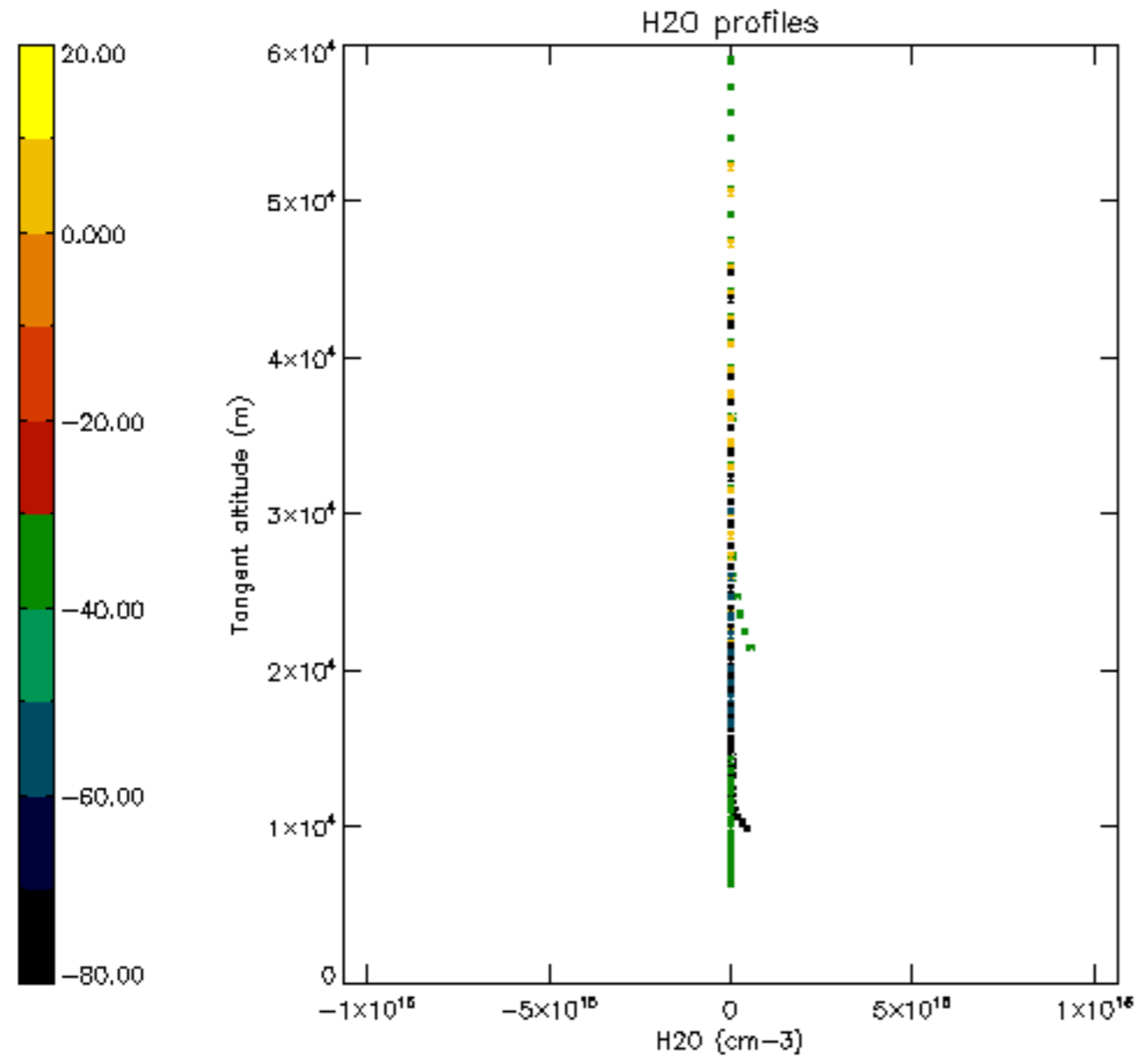


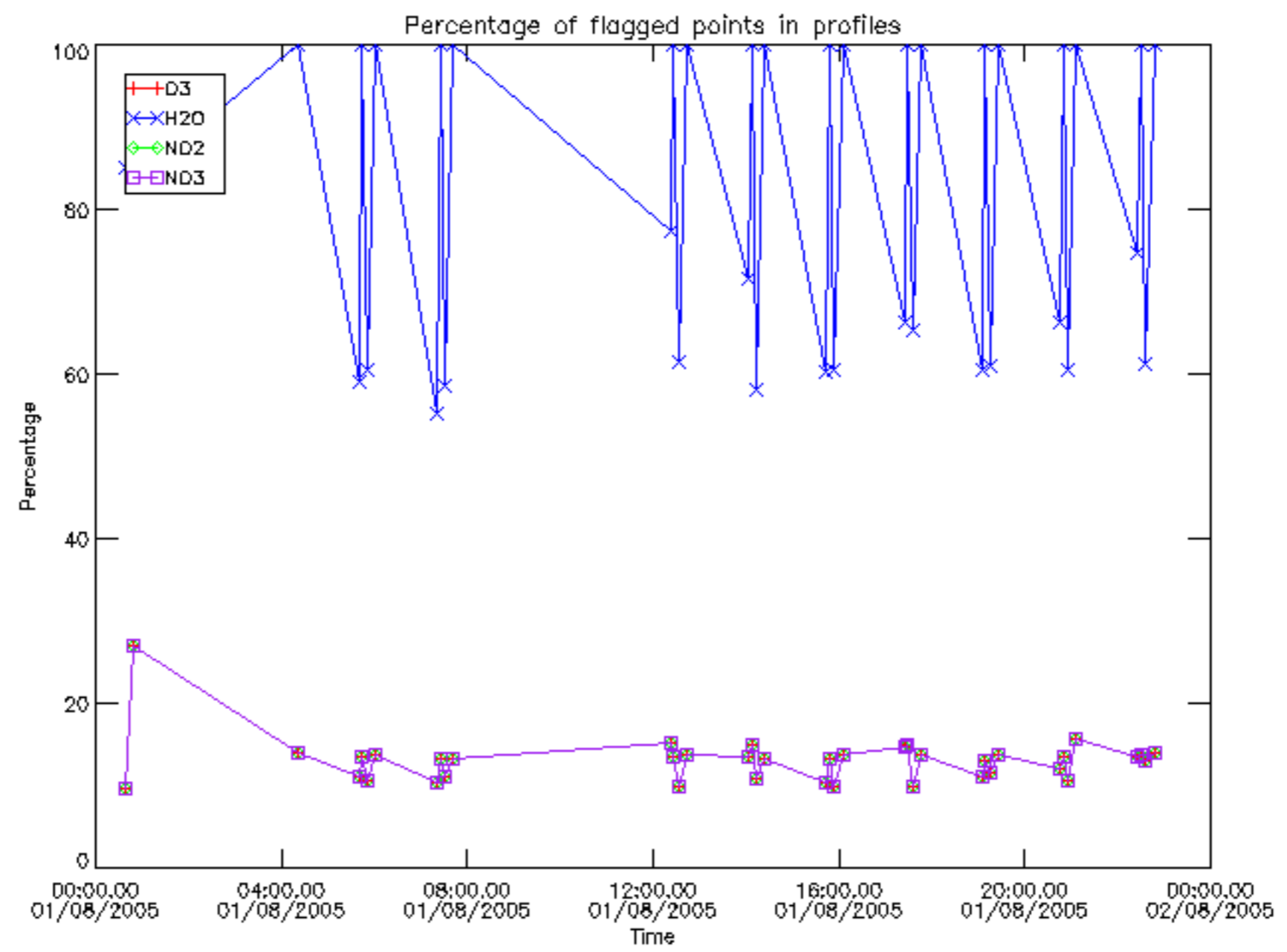




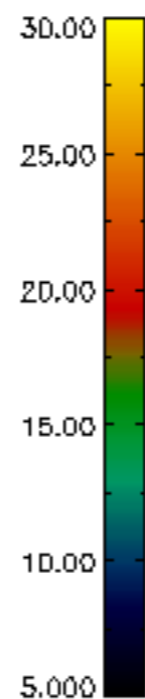
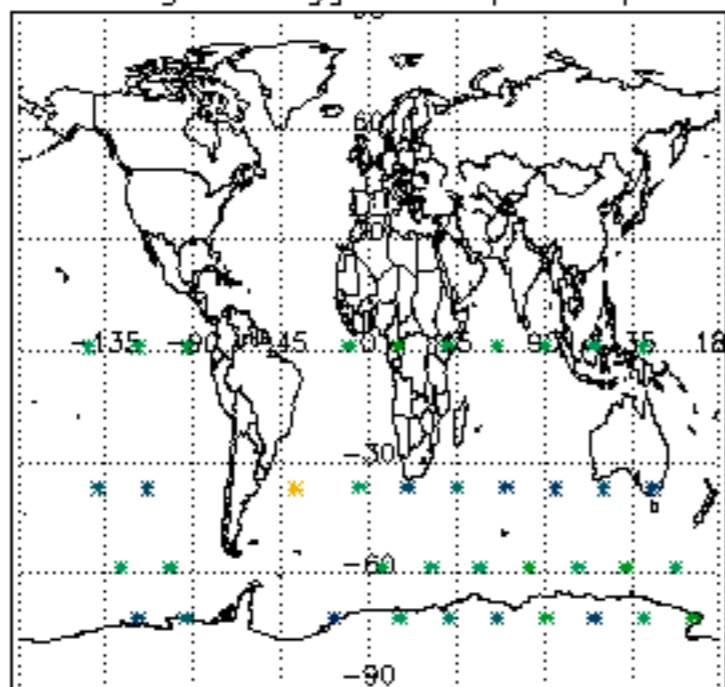




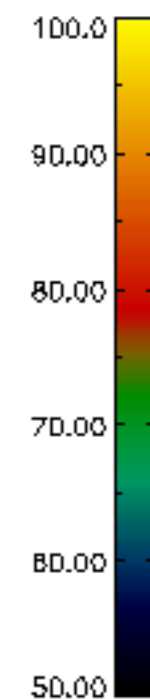
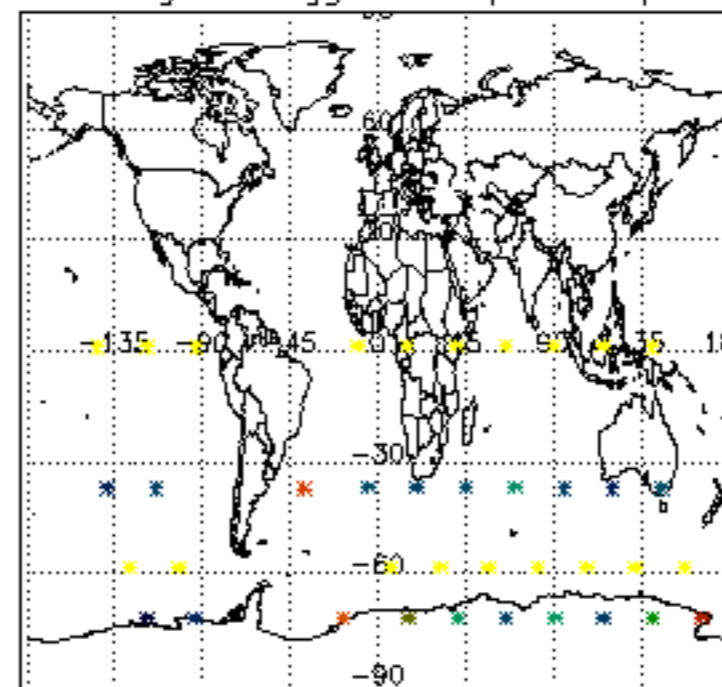




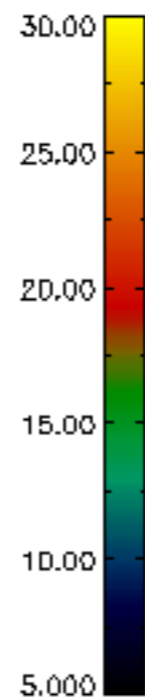
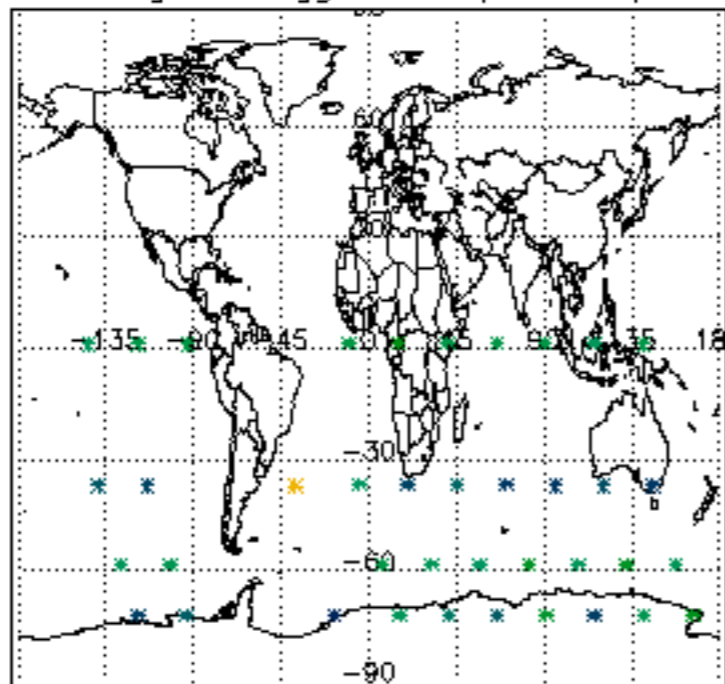
Percentage of flagged data per D3 profile



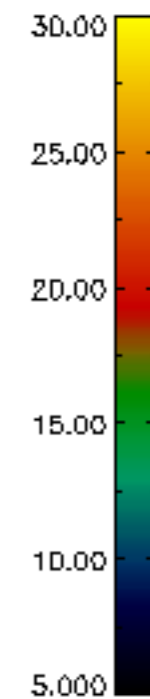
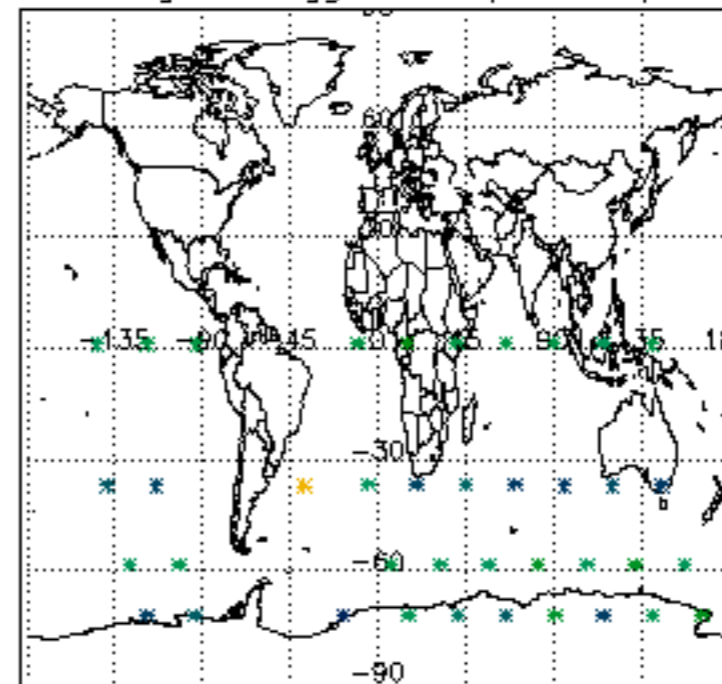
Percentage of flagged data per H2O profile

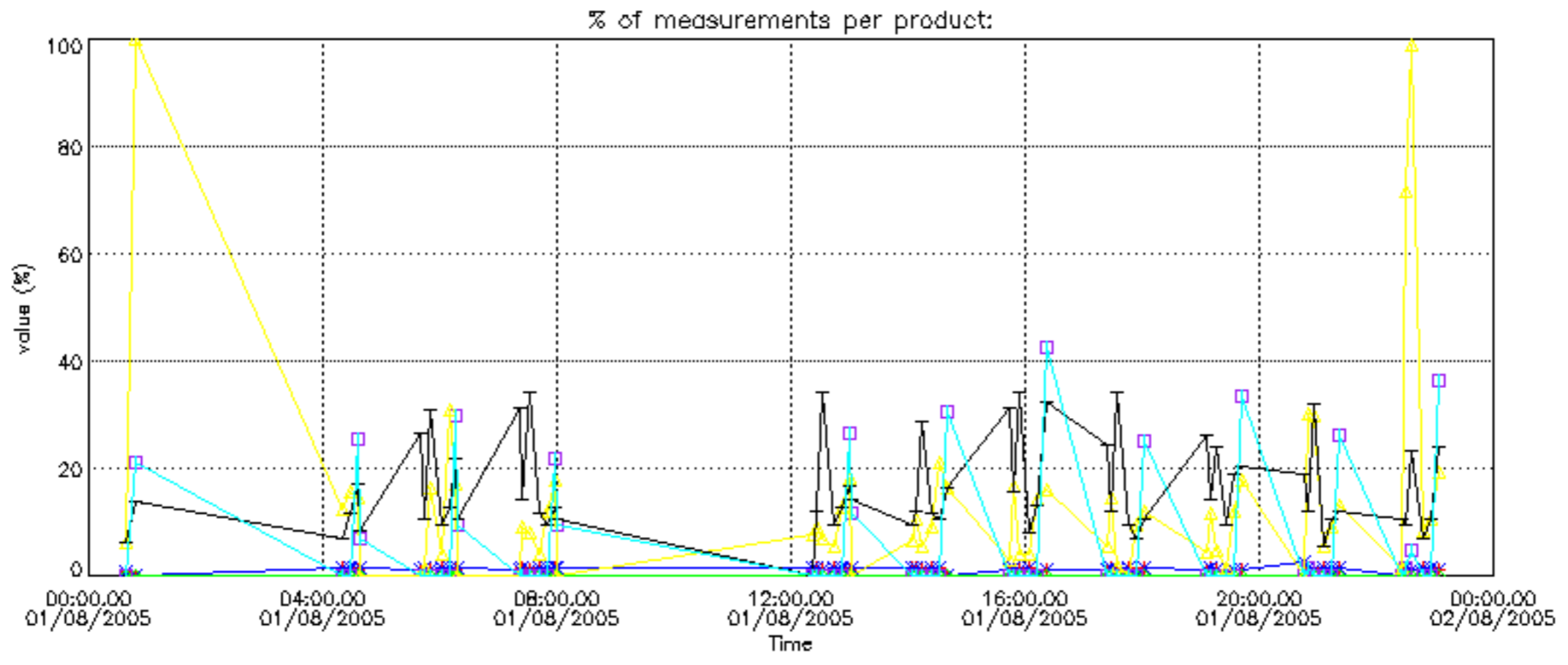


Percentage of flagged data per NO2 profile

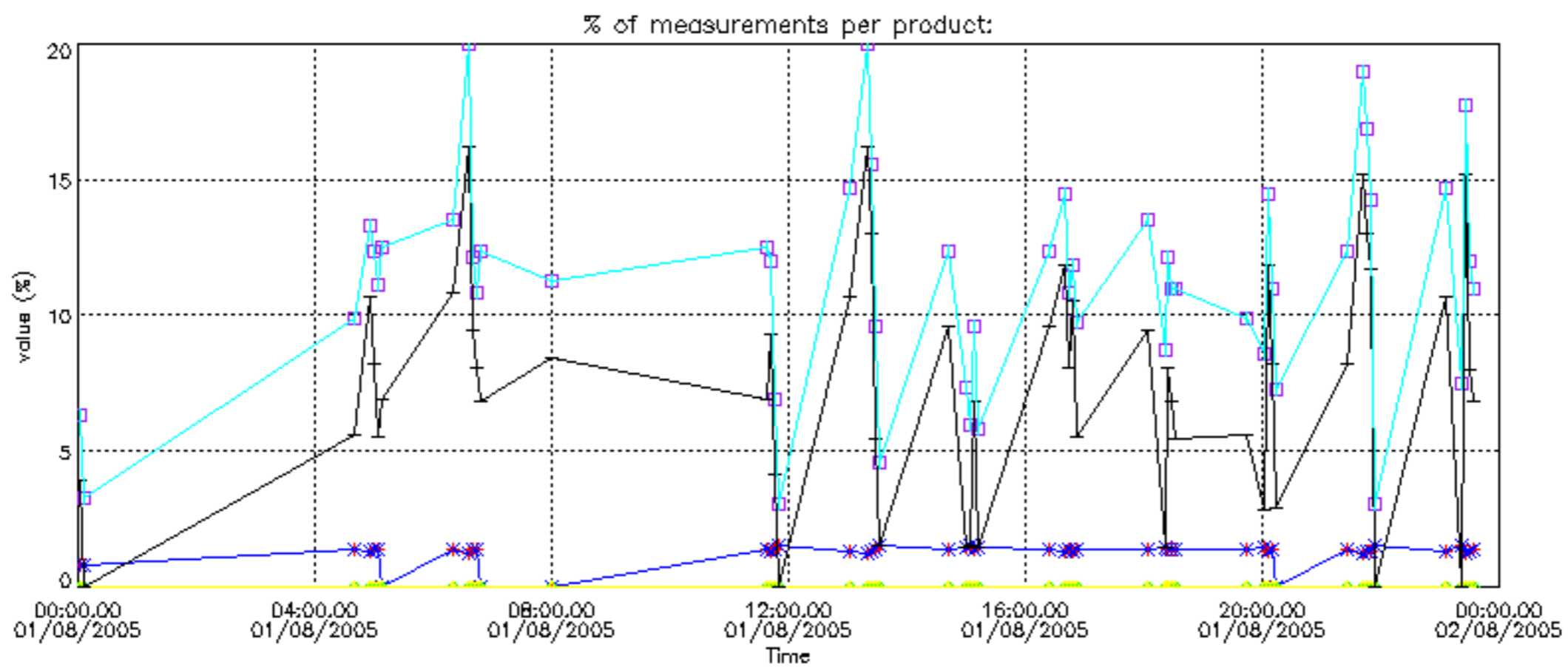


Percentage of flagged data per NO3 profile

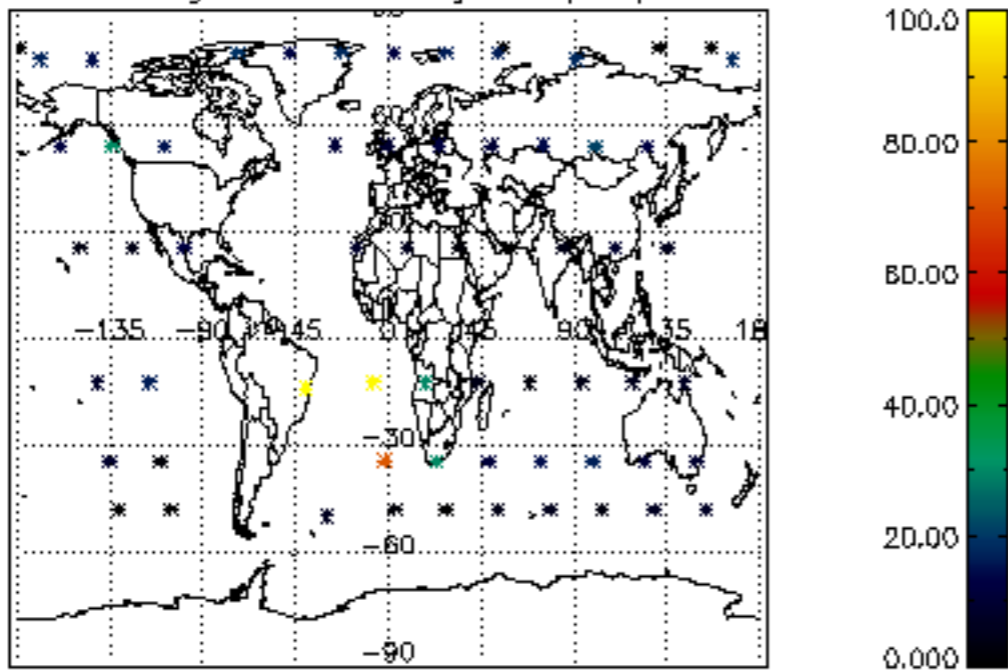




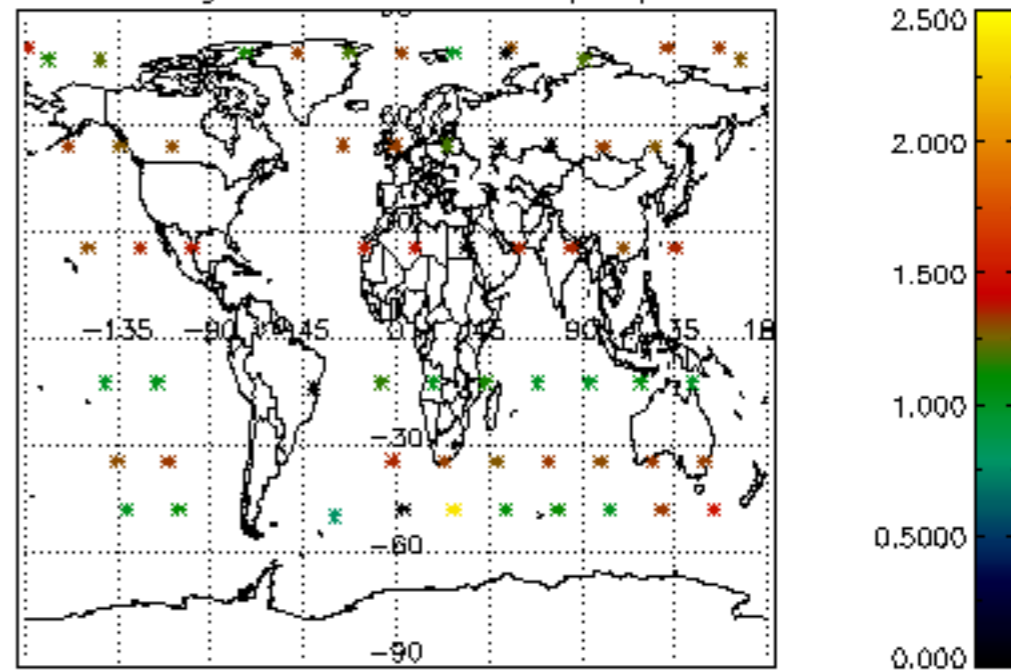




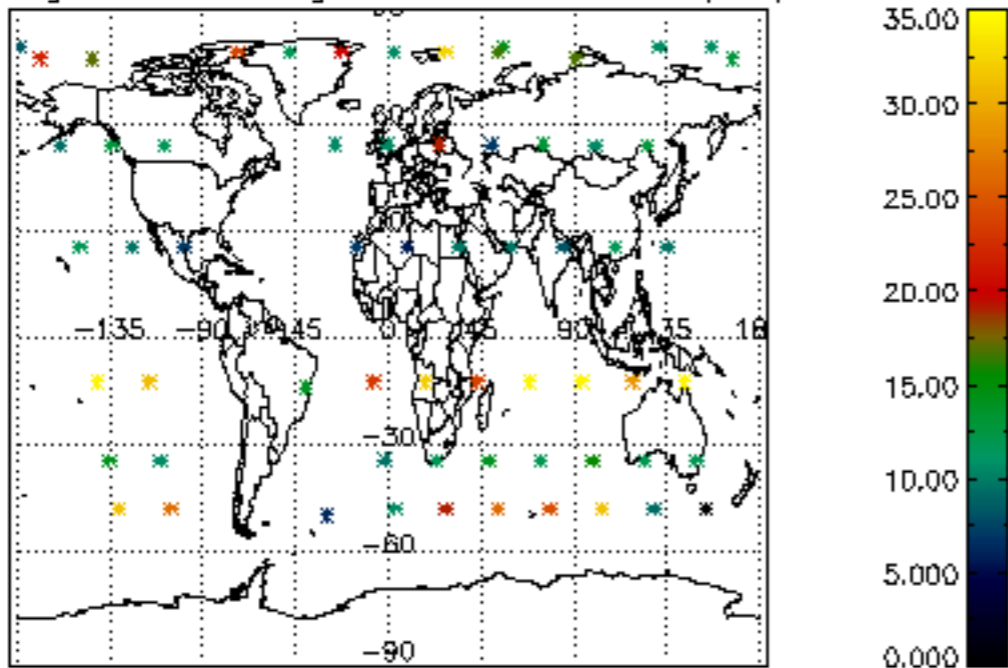
Percentage of cosmic ray hits per profile



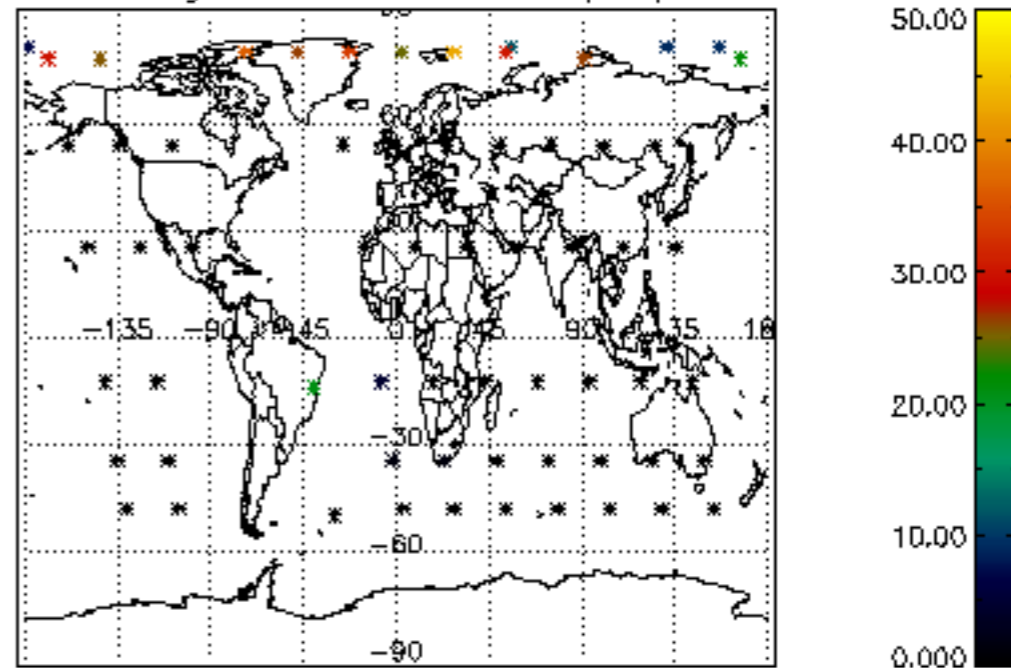
Percentage of datation errors per profile



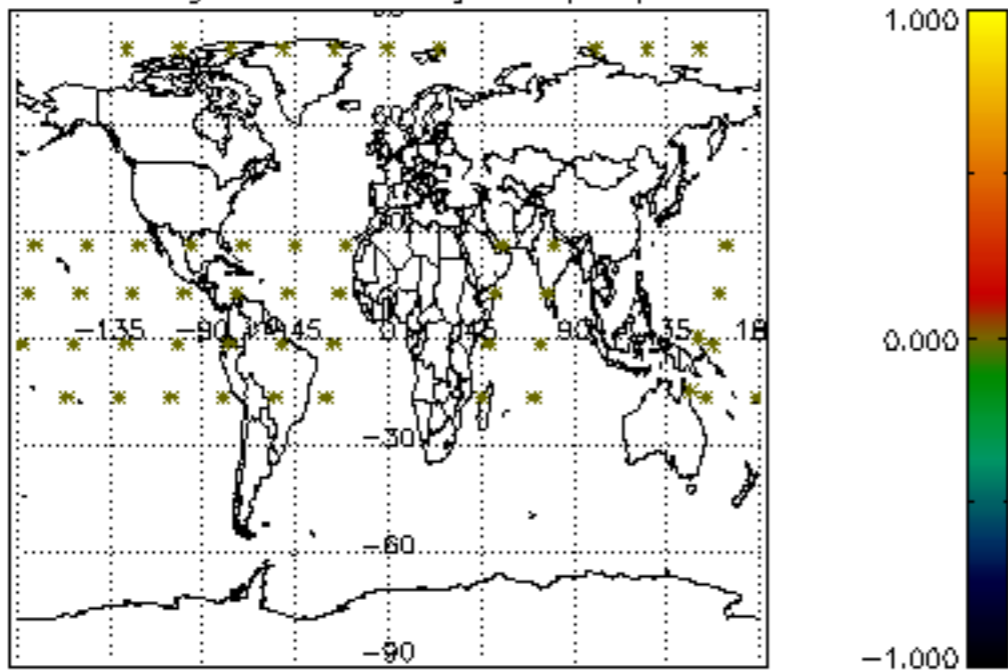
Percentage of star falling outside central band per profile



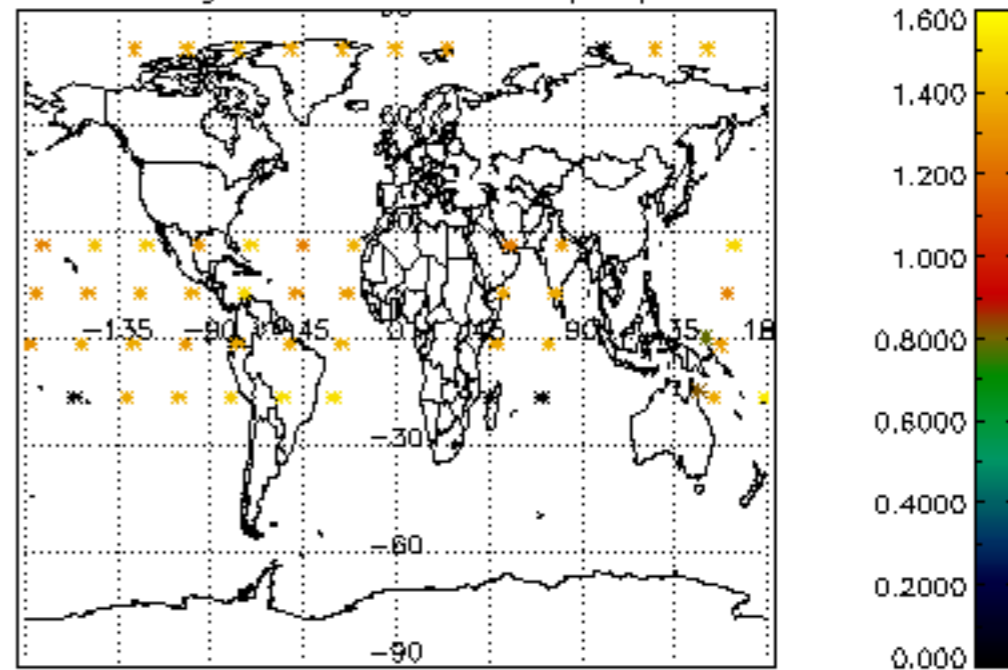
Percentage of saturation errors per profile



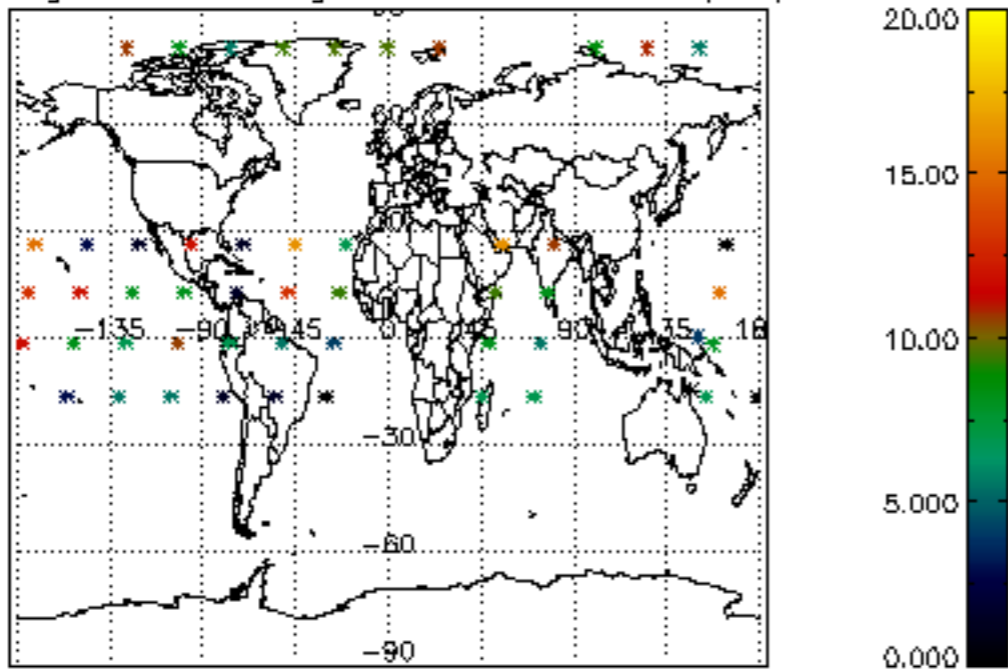
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

