

GOMOS Level 2 Daily Report

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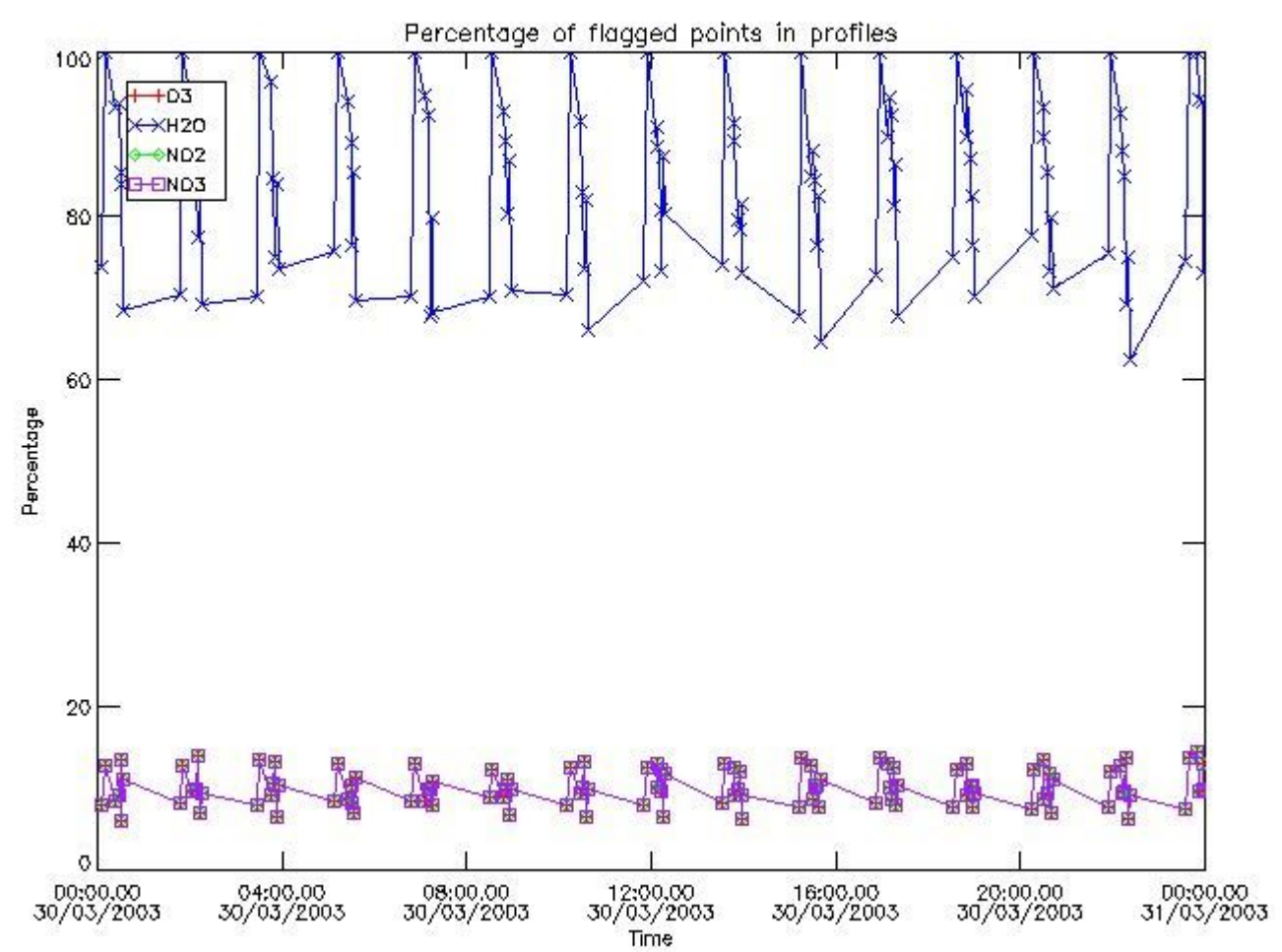
[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

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

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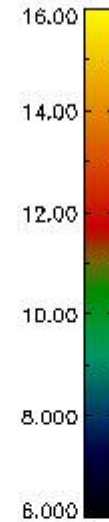
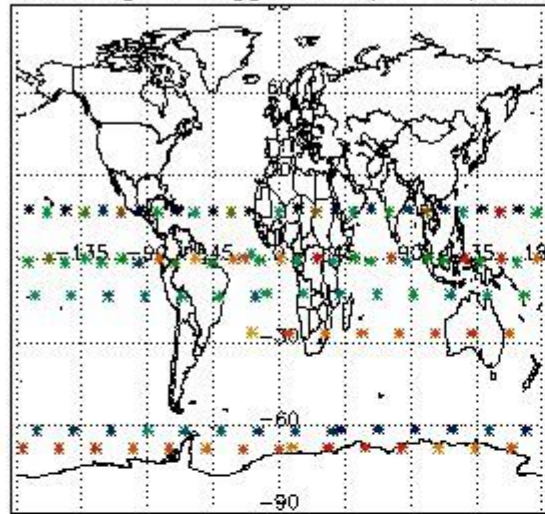
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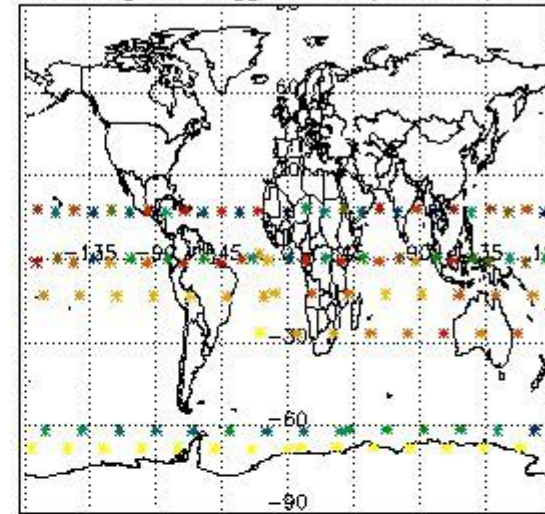


3.2 Plot quality information per product (world map)

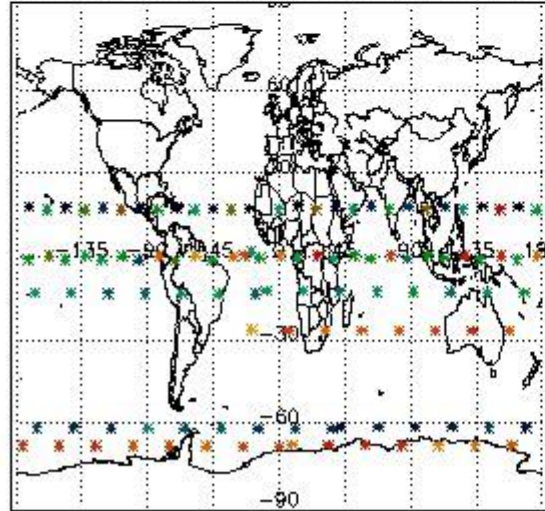
Percentage of flagged data per O3 profile



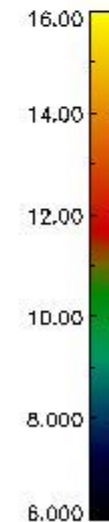
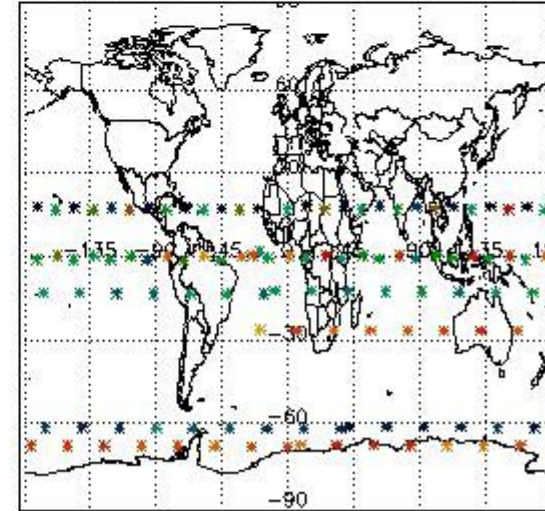
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

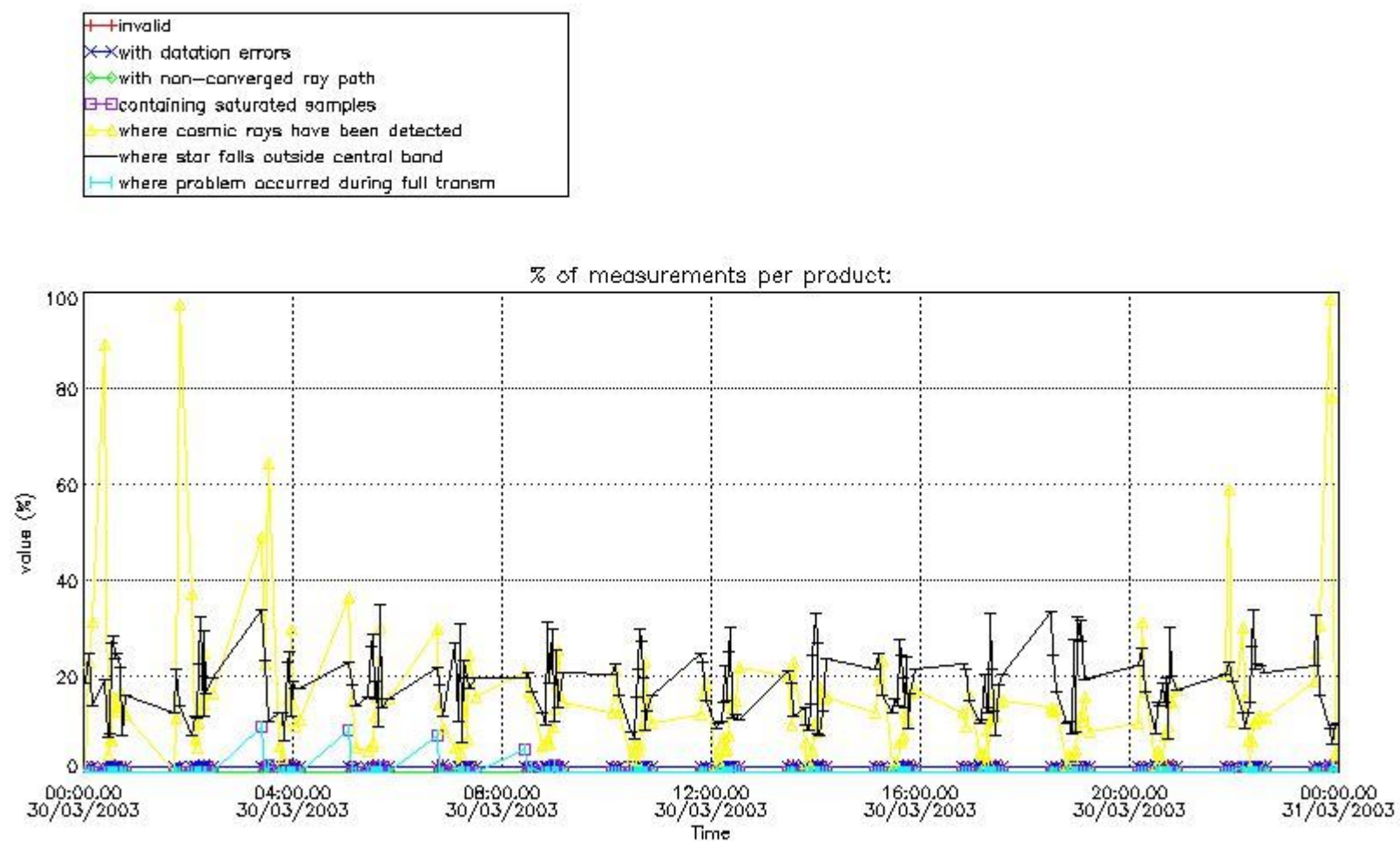


4. Level 1 quality information per product

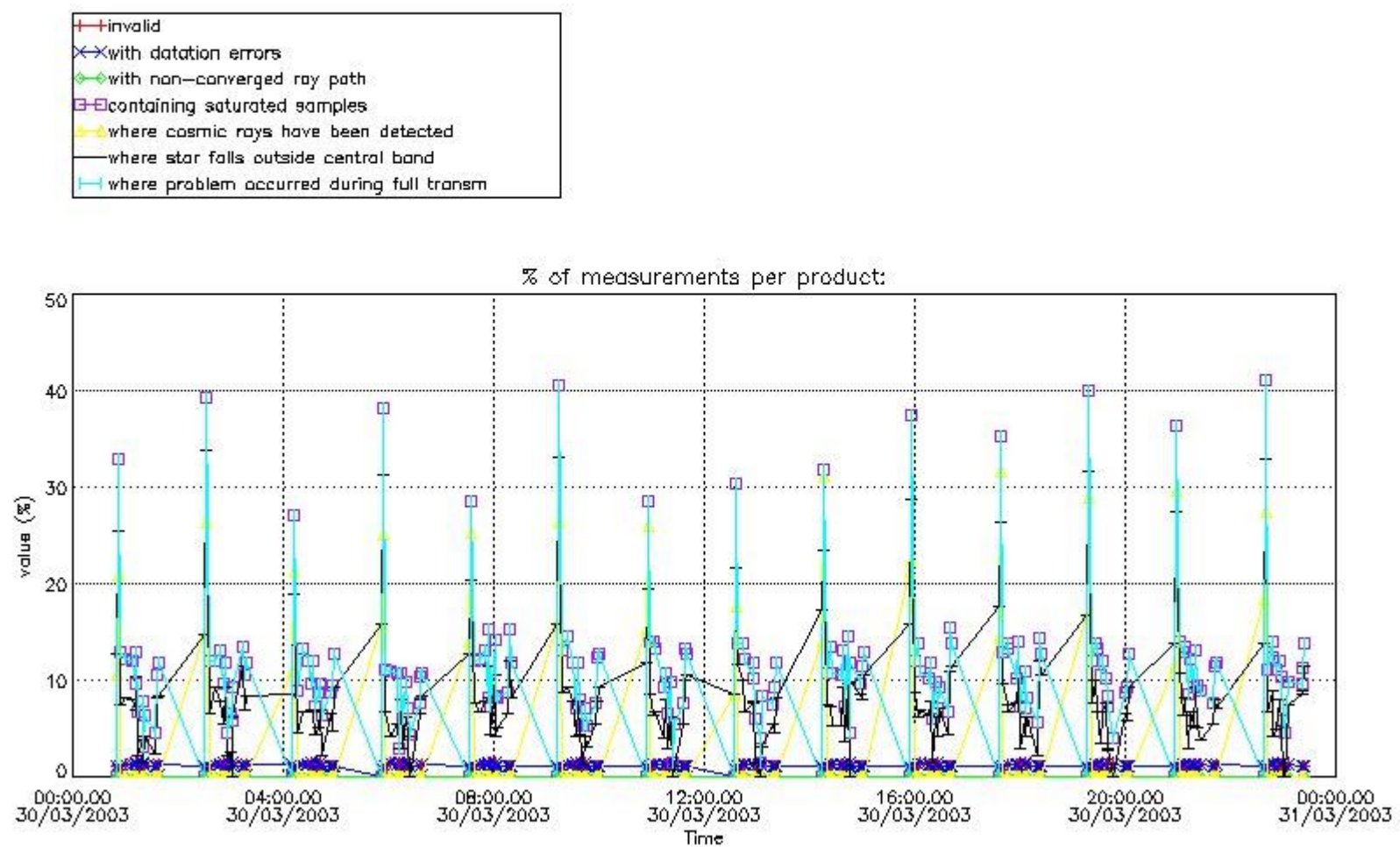
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

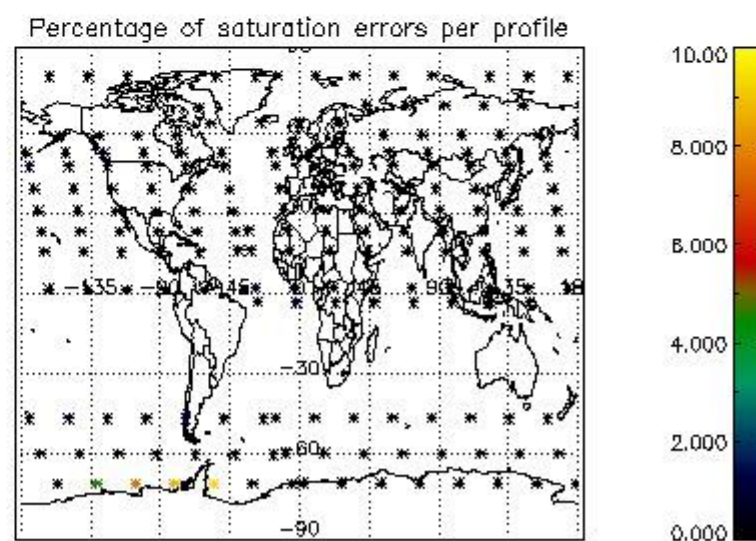
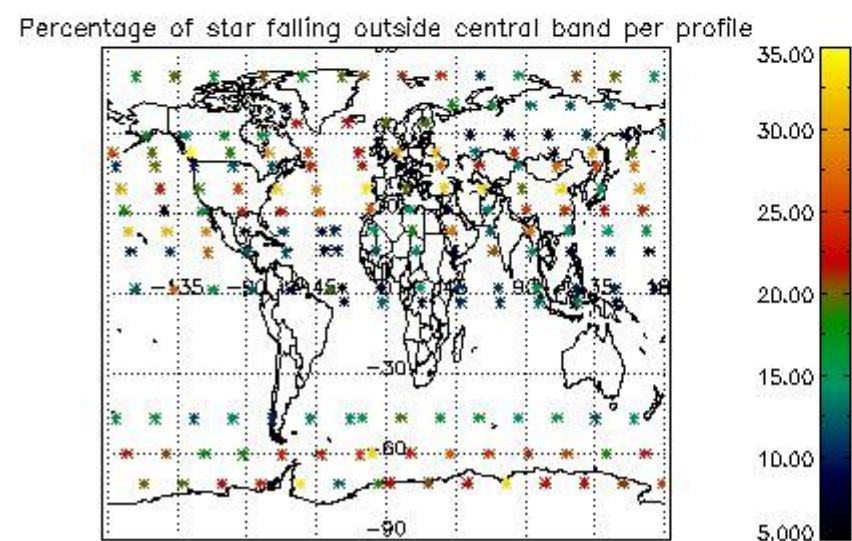
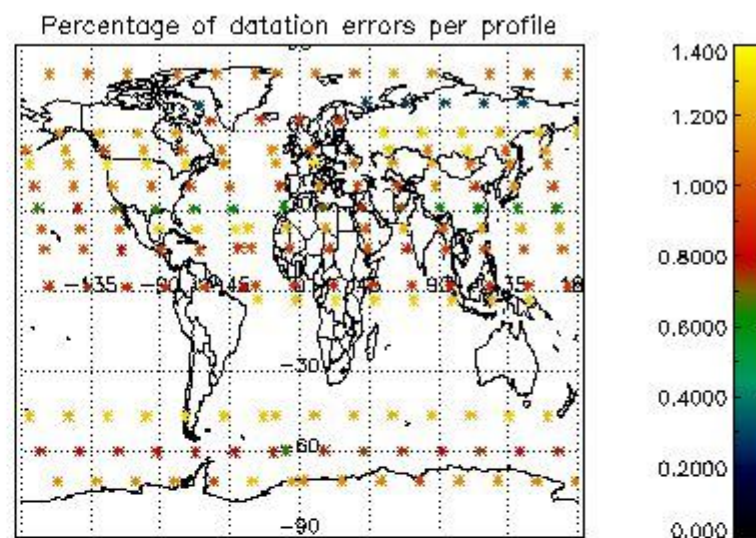
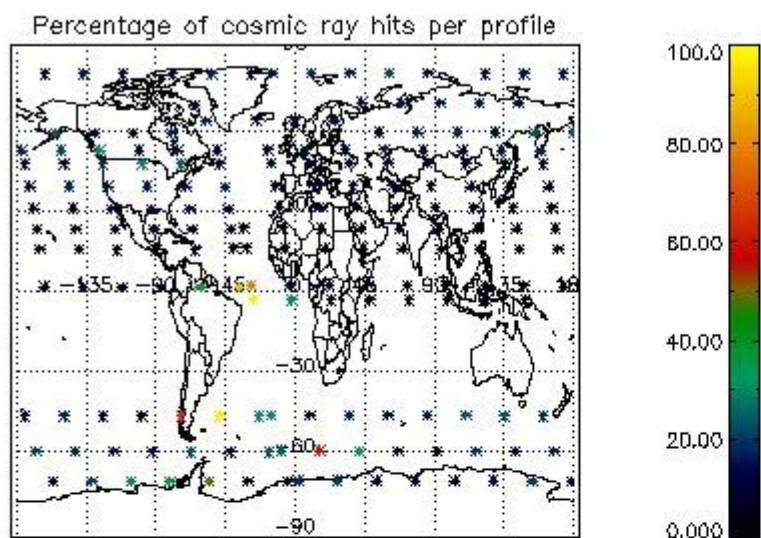


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



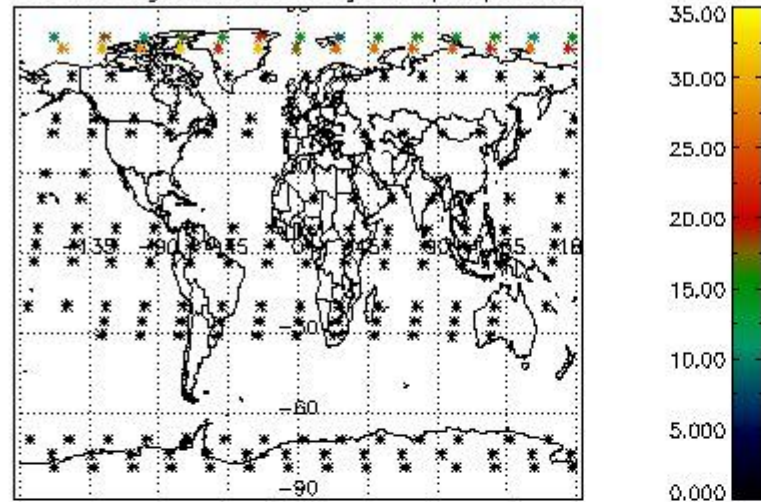
4.2 Plot quality information per product coming from level 1b processing (world map)

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

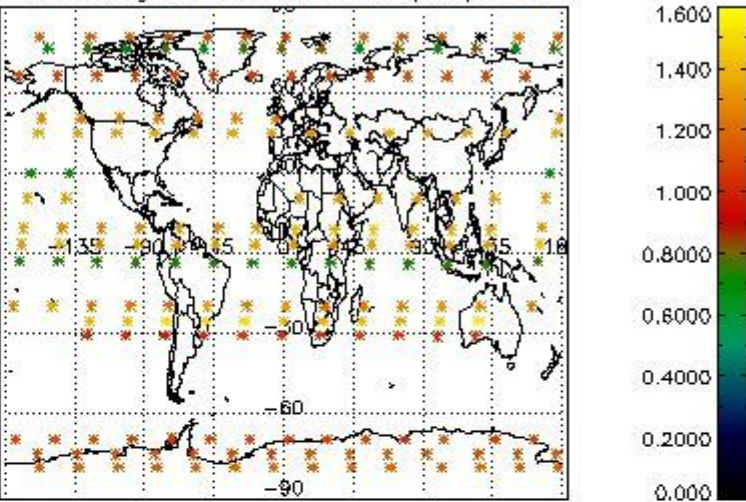


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

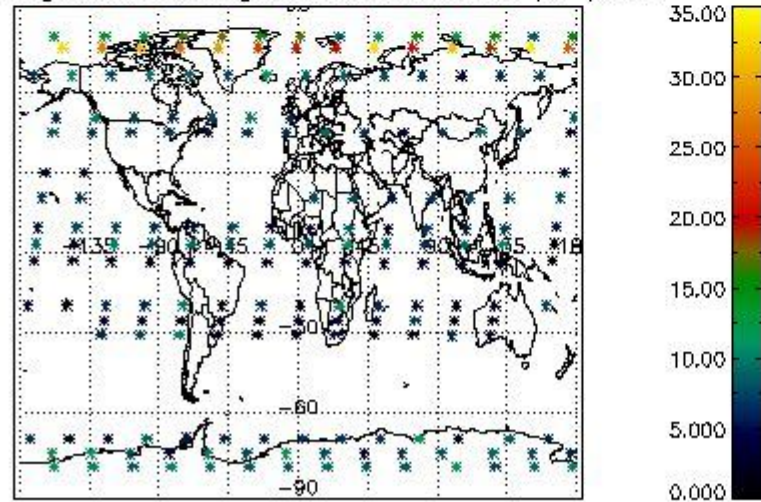
Percentage of cosmic ray hits per profile



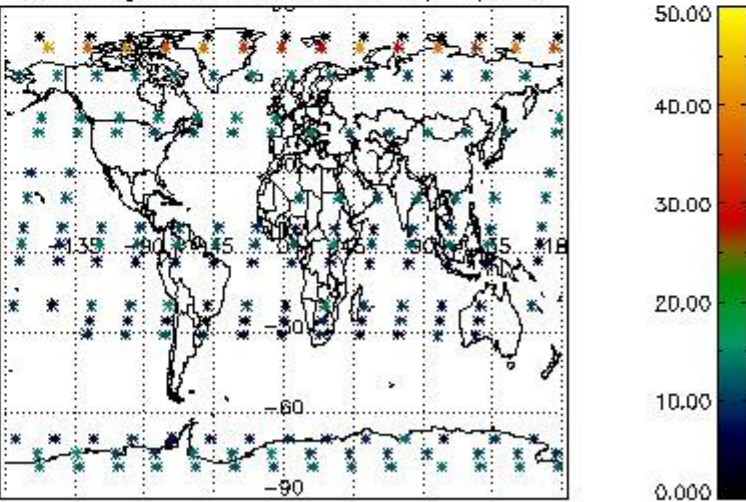
Percentage of datation errors per profile



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

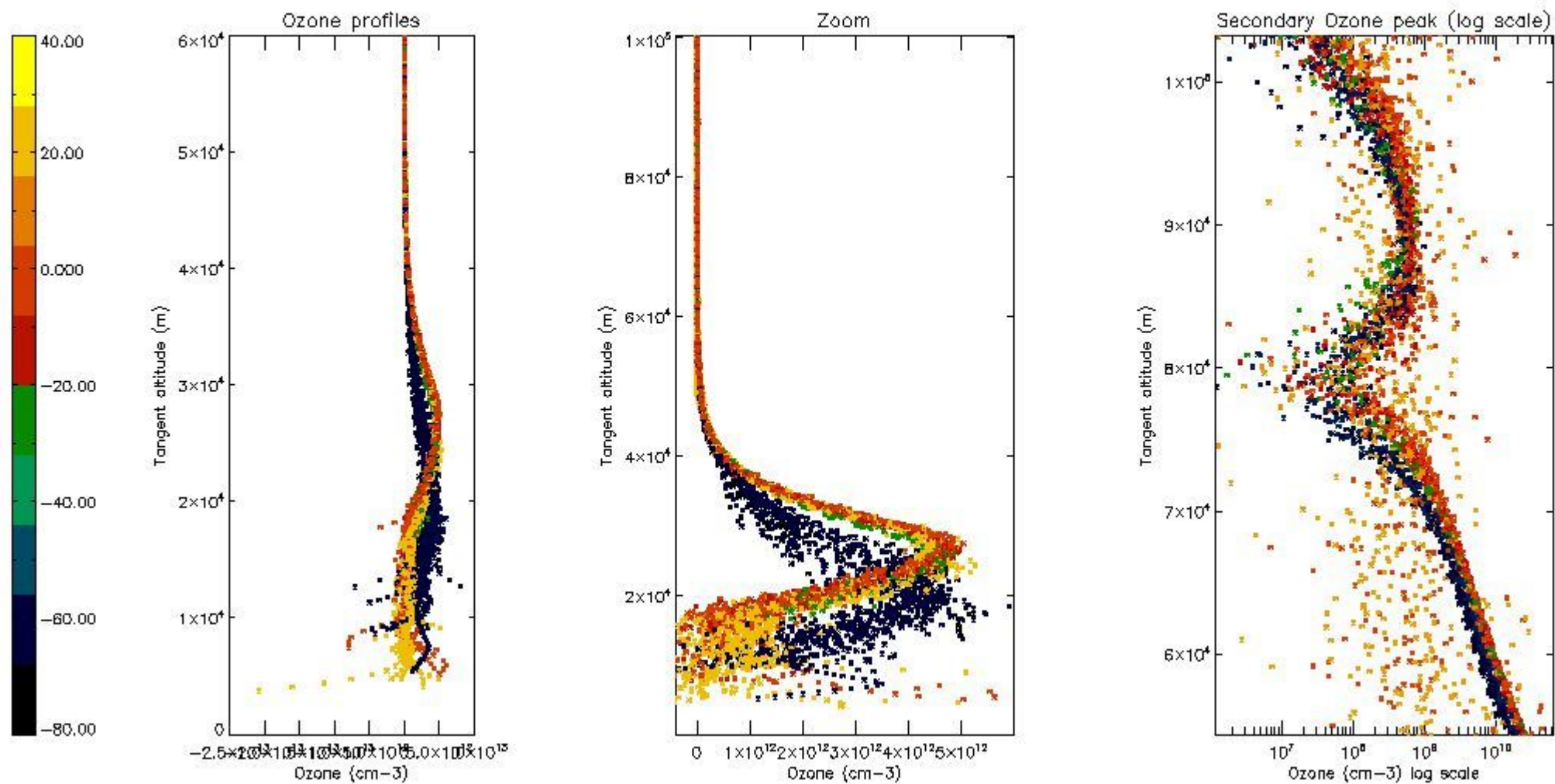
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	18

STD < 10	15
STD < 5	10

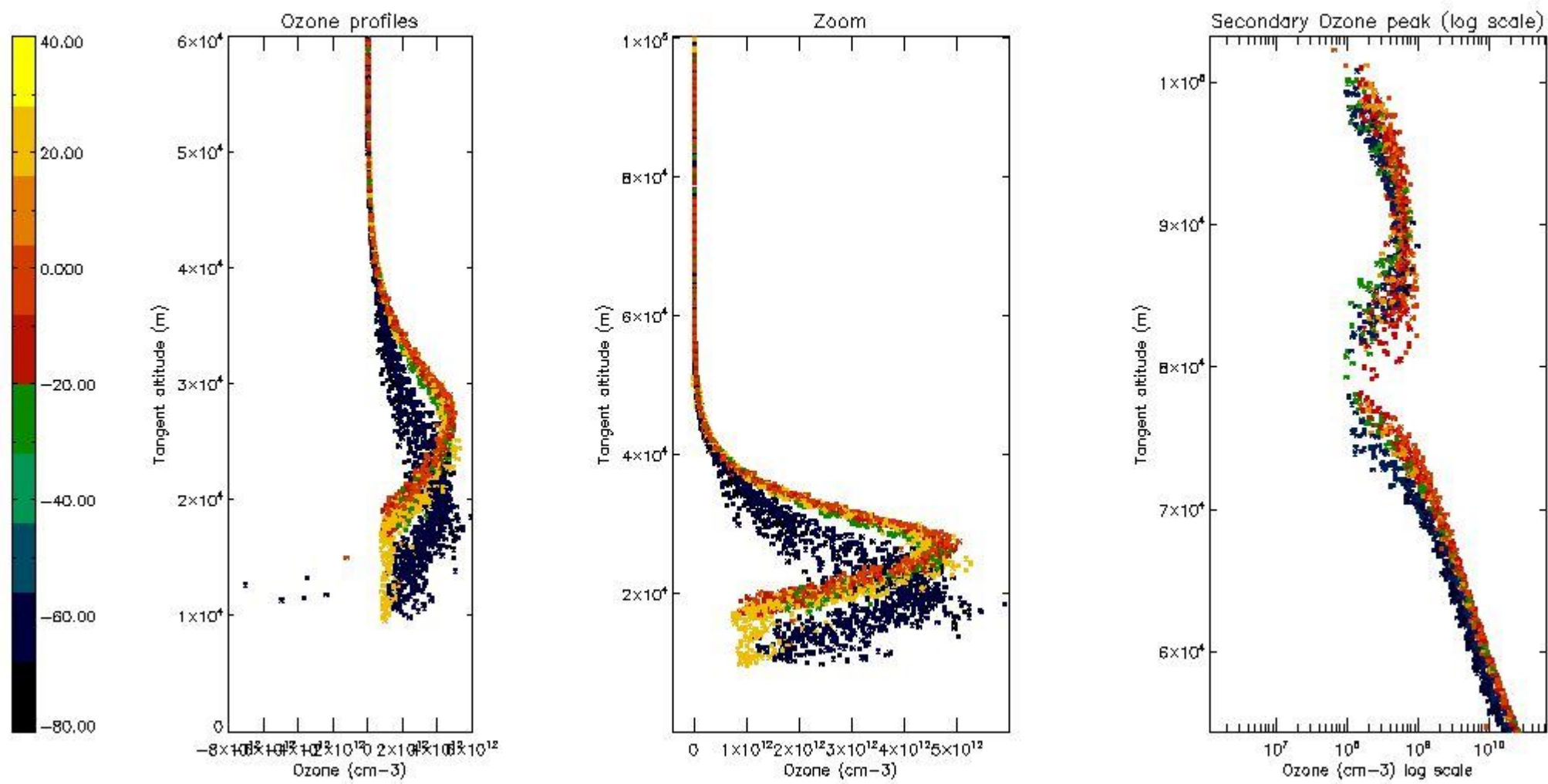
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



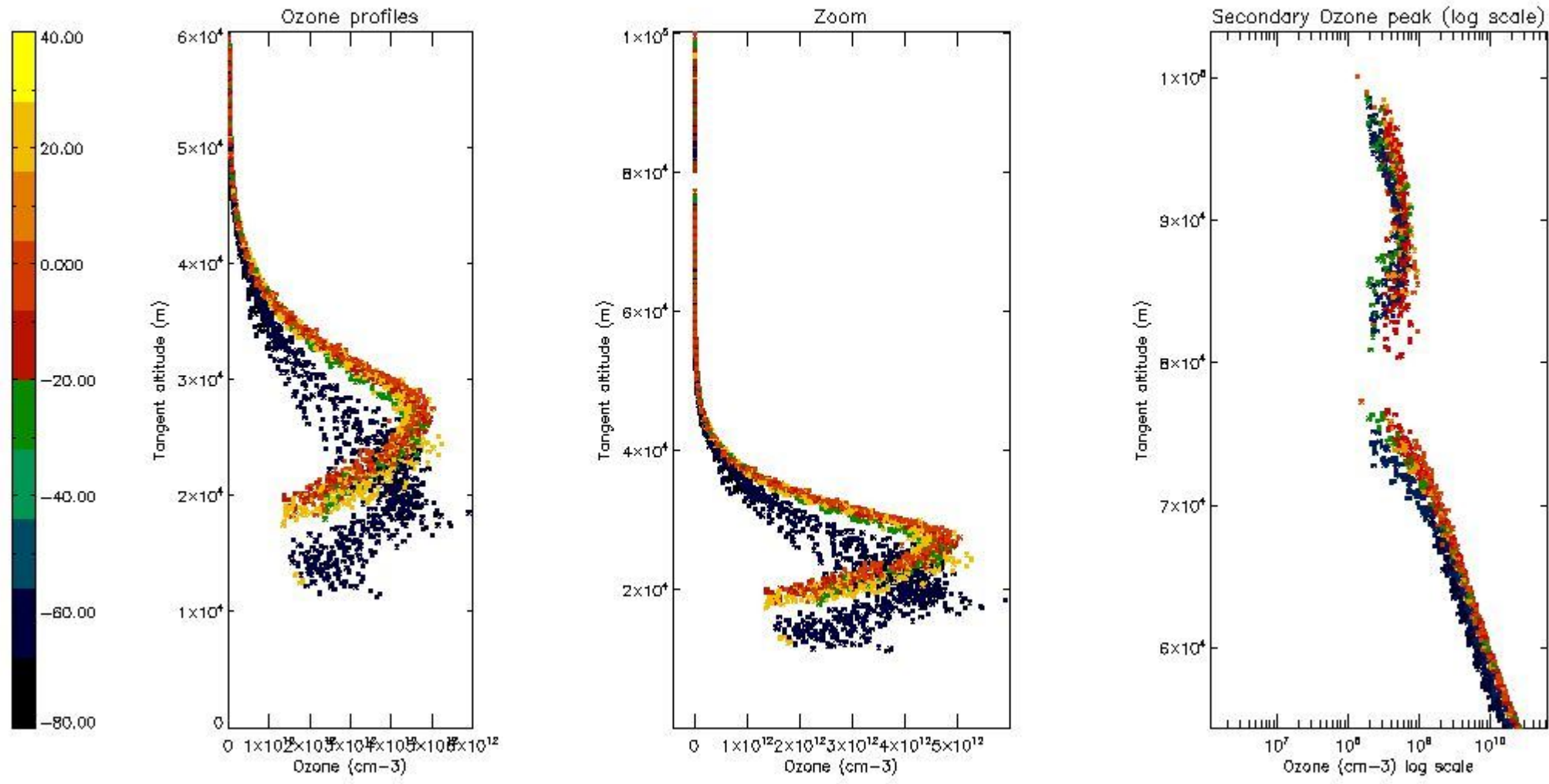
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



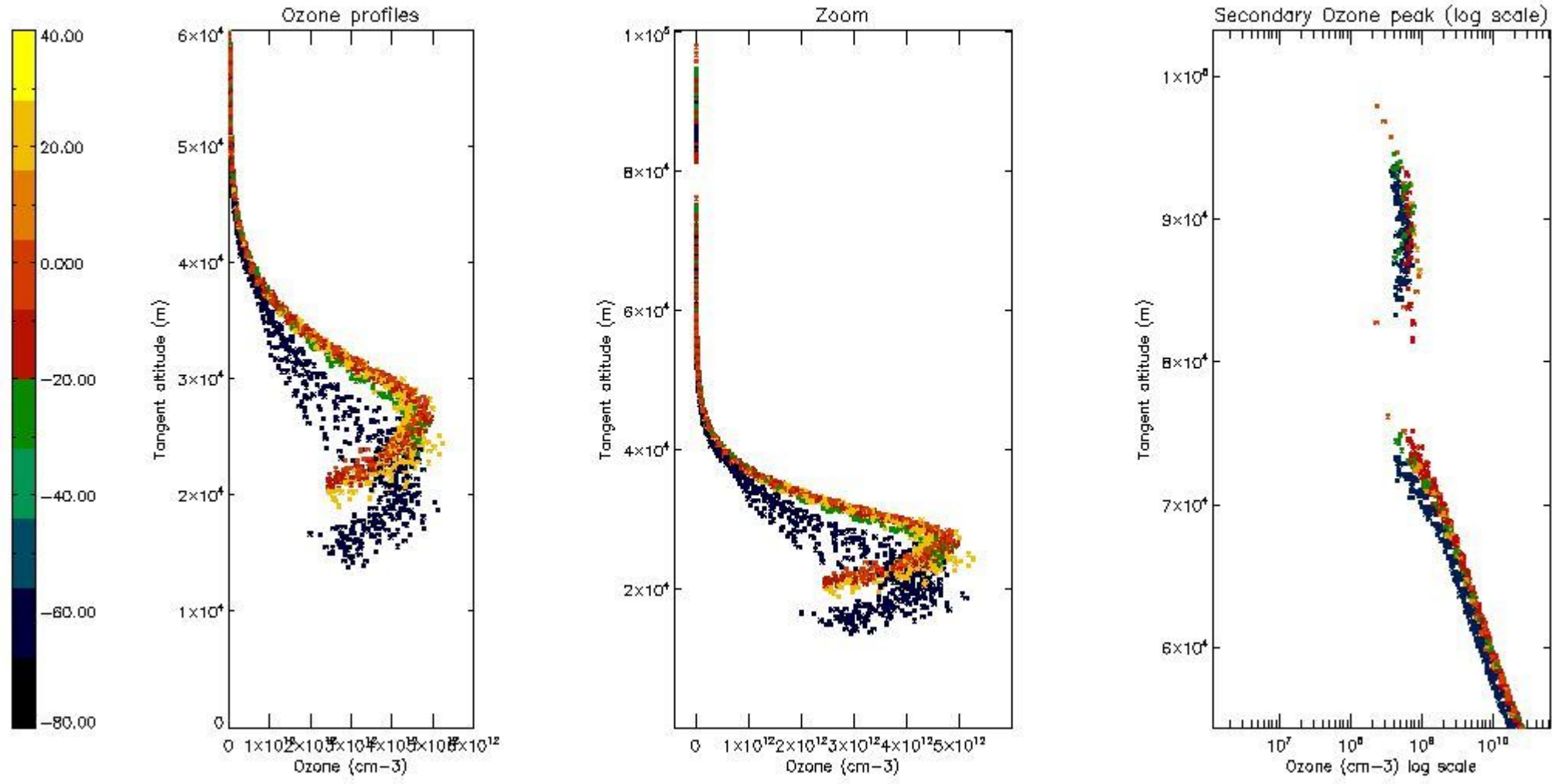
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



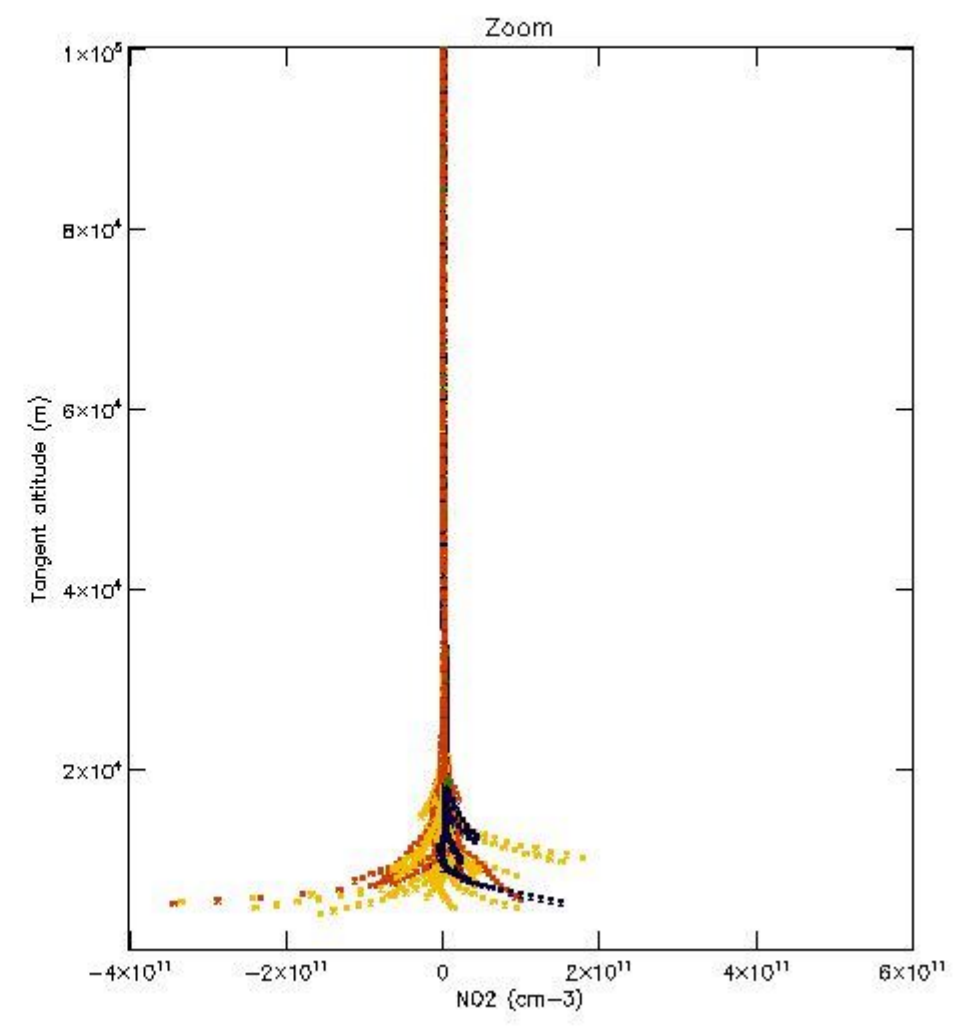
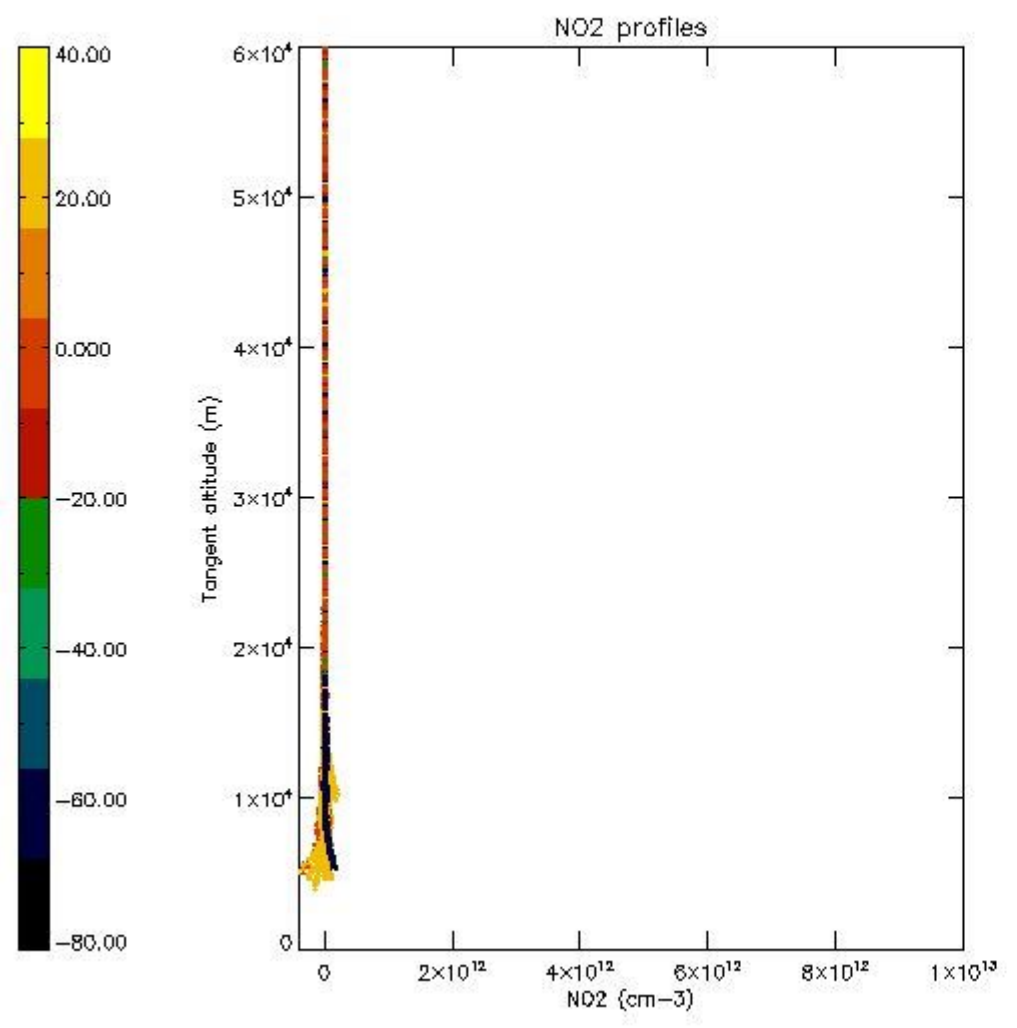
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



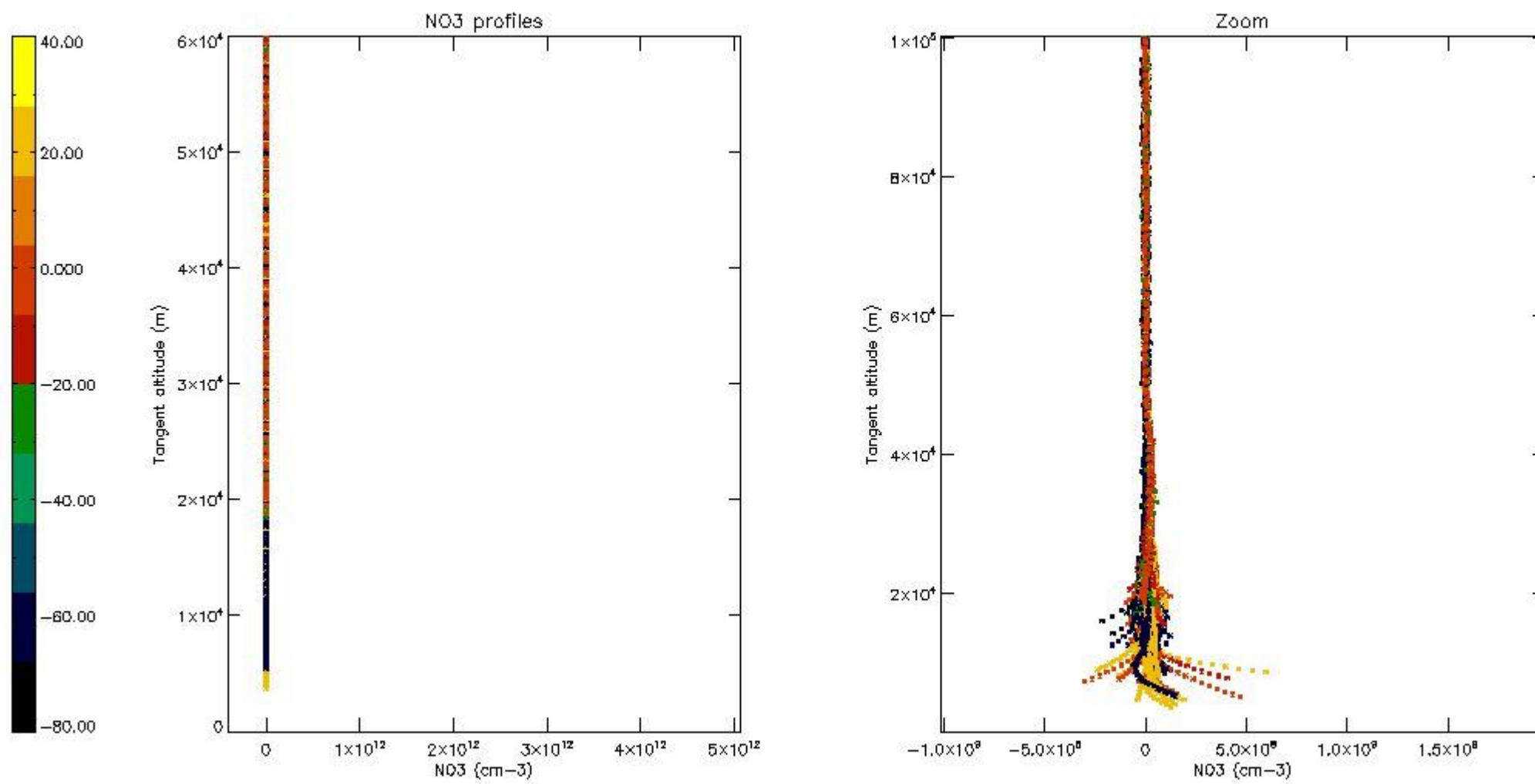
5.6 Plot NO_2 profiles for all STD (dark without errors)

The colorbar represents the latitude.



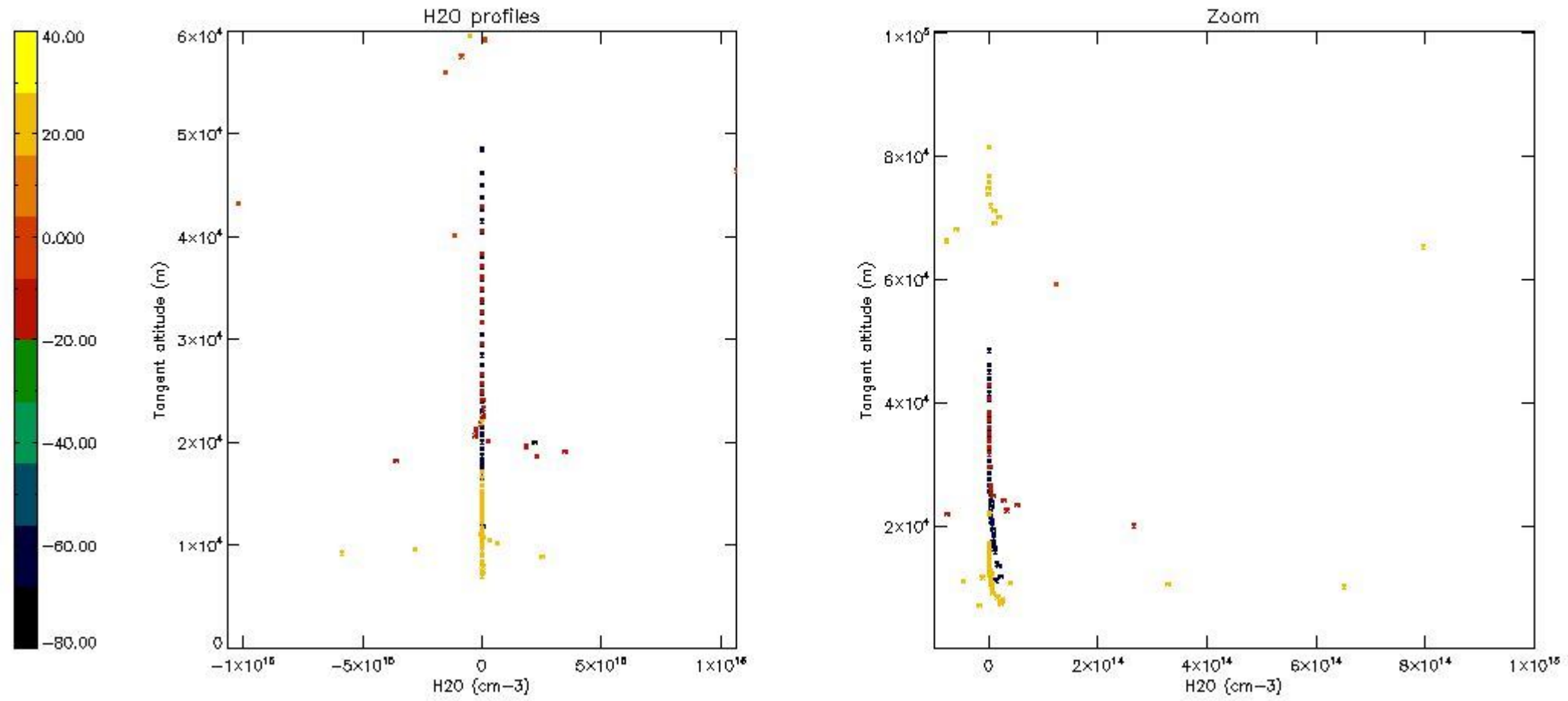
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	30-MAR-2003 00:02:57
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	30-MAR-2003 00:02:57
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	30-MAR-2003 00:02:57

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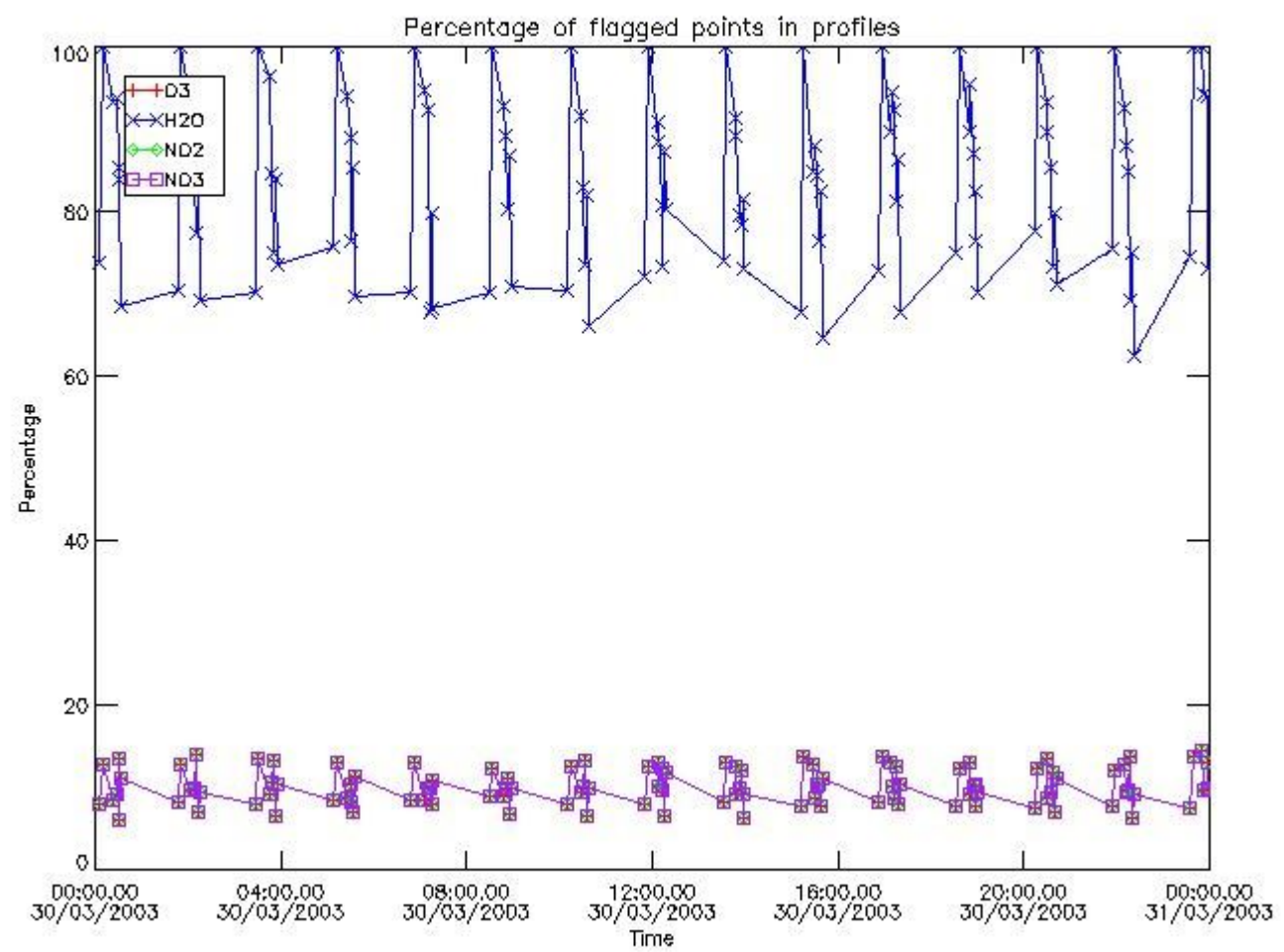
This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P).
It is intended to monitor some important parameters that will impact the quality of these products.
A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also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

Item	Value
Time of report generation	19APR2013 12:20:22
Data source version	GOMOS/6.01
Start time of products	30-03-2003 (30MAR2003 00:00:00)
Stop time of products	31-03-2003 (31MAR2003 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	384
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

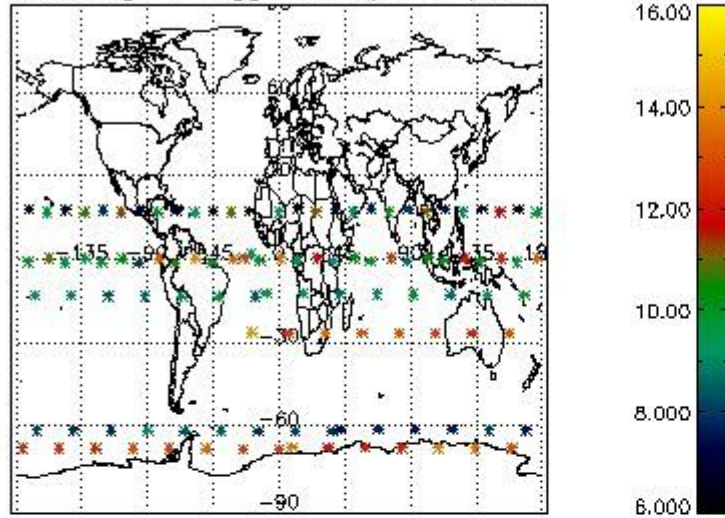
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20030330_000257_000000432015_00073_05638_6285.N1	30-MAR-2003 00:02:57	Bright	43.000	61	8Eps Peg	2.1000	3900.0	86	5638	No
2	GOM_NL__2PRFIN20030330_000613_000000652015_00073_05638_6286.N1	30-MAR-2003 00:06:13	Dark	65.000	11	53Alp Aql	0.76500	8000.0	130	5638	No
3	GOM_NL__2PRFIN20030330_001006_000000402015_00073_05638_6287.N1	30-MAR-2003 00:10:06	Dark	40.000	142	49Del Cap	2.8500	8900.0	80	5638	No
4	GOM_NL__2PRFIN20030330_002338_000000602015_00074_05639_6290.N1	30-MAR-2003 00:23:38	Dark	60.000	38	20Eps Sgr	1.8360	11000.	120	5639	No
5	GOM_NL__2PRFIN20030330_002749_000000562015_00074_05639_6291.N1	30-MAR-2003 00:27:49	Dark	55.500	25	35Lam Sco	1.6200	28000.	111	5639	No
6	GOM_NL__2PRFIN20030330_002946_000000382015_00074_05639_6292.N1	30-MAR-2003 00:29:46	Dark	38.000	43	Alp TrA	1.9100	4250.0	76	5639	No
7	GOM_NL__2PRFIN20030330_003149_000000842015_00074_05639_6293.N1	30-MAR-2003 00:31:49	Dark	83.500	75	26Eps Sco	2.2910	4250.0	167	5639	No
8	GOM_NL__2PRFIN20030330_003414_000000512015_00074_05639_6294.N1	30-MAR-2003 00:34:14	Dark	51.000	4	Alp1Cen	-0.010000	5800.0	102	5639	No
9	GOM_NL__2PRFIN20030330_003639_000000452015_00074_05639_6295.N1	30-MAR-2003 00:36:39	Straylight	44.500	12	Alp1Cru	0.77500	30000.	89	5639	No
10	GOM_NL__2PRFIN20030330_003804_000000472015_00074_05639_6296.N1	30-MAR-2003 00:38:04	Straylight	46.500	26	Gam Cru	1.6240	2900.0	93	5639	No
11	GOM_NL__2PRFIN20030330_004116_000000572015_00074_05639_6297.N1	30-MAR-2003 00:41:16	Straylight	57.000	54	5The Cen	2.0550	4500.0	114	5639	No
12	GOM_NL__2PRFIN20030330_004308_000001642015_00074_05639_6298.N1	30-MAR-2003 00:43:08	Twilight_and_stray	163.50	97	8Bet1Sco	2.5610	30000.	327	5639	No
13	GOM_NL__2PRFIN20030330_004728_000000472015_00074_05639_6299.N1	30-MAR-2003 00:47:28	Twilight_and_stray	46.500	106	9Bet Crv	2.6480	5600.0	93	5639	No
14	GOM_NL__2PRFIN20030330_004929_000000432015_00074_05639_6300.N1	30-MAR-2003 00:49:29	Twilight_and_stray	43.000	100	4Gam Crv	2.5800	13100.	86	5639	No
15	GOM_NL__2PRFIN20030330_005124_000000672015_00074_05639_6301.N1	30-MAR-2003 00:51:24	Bright	67.000	15	67Alp Vir	0.97600	28000.	134	5639	No
16	GOM_NL__2PRFIN20030330_005443_000000472015_00074_05639_6302.N1	30-MAR-2003 00:54:43	Bright	46.500	121	29Gam Vir	2.7400	7200.0	93	5639	No
17	GOM_NL__2PRFIN20030330_010053_000000372015_00074_05639_6303.N1	30-MAR-2003 01:00:53	Bright	37.000	96	68Del Leo	2.5600	9300.0	74	5639	No
18	GOM_NL__2PRFIN20030330_010745_000000382015_00074_05639_6304.N1	30-MAR-2003 01:07:45	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	5639	No
19	GOM_NL__2PRFIN20030330_011104_000000372015_00074_05639_6305.N1	30-MAR-2003 01:11:04	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	5639	No
20	GOM_NL__2PRFIN20030330_011236_000000392015_00074_05639_6306.N1	30-MAR-2003 01:12:36	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	5639	No
21	GOM_NL__2PRFIN20030330_011441_000000672015_00074_05639_6307.N1	30-MAR-2003 01:14:41	Bright	67.000	180	27Gam Boo	3.0400	8000.0	134	5639	No
22	GOM_NL__2PRFIN20030330_011904_000000392015_00074_05639_6308.N1	30-MAR-2003 01:19:04	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	5639	No
23	GOM_NL__2PRFIN20030330_012035_000000332015_00074_05639_6309.N1	30-MAR-2003 01:20:35	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	5639	No
24	GOM_NL__2PRFIN20030330_012209_000000482015_00074_05639_6310.N1	30-MAR-2003 01:22:09	Bright	47.500	119	14Eta Dra	2.7270	4700.0	95	5639	No
25	GOM_NL__2PRFIN20030330_013319_000000442015_00074_05639_6311.N1	30-MAR-2003 01:33:19	Bright	43.500	144	18Del Cyg	2.8600	11000.	87	5639	No
26	GOM_NL__2PRFIN20030330_013508_000000432015_00074_05639_6312.N1	30-MAR-2003 01:35:08	Bright	43.000	66	37Gam Cyg	2.2080	5900.0	86	5639	No
27	GOM_NL__2PRFIN20030330_013706_000000422015_00074_05639_6313.N1	30-MAR-2003 01:37:06	Bright	42.000	92	53Eps Cyg	2.5000	4500.0	84	5639	No
28	GOM_NL__2PRFIN20030330_014333_000000402015_00074_05639_6314.N1	30-MAR-2003 01:43:33	Bright	40.000	61	8Eps Peg	2.1000	3900.0	80	5639	No
29	GOM_NL__2PRFIN20030330_014649_000000632015_00074_05639_6315.N1	30-MAR-2003 01:46:49	Dark	63.000	11	53Alp Aql	0.76500	8000.0	126	5639	No
30	GOM_NL__2PRFIN20030330_015042_000000402015_00074_05639_6316.N1	30-MAR-2003 01:50:42	Dark	40.000	142	49Del Cap	2.8500	8900.0	80	5639	No
31	GOM_NL__2PRFIN20030330_020416_000000532015_00075_05640_6299.N1	30-MAR-2003 02:04:16	Dark	52.500	38	20Eps Sgr	1.8360	11000.	105	5640	No
32	GOM_NL__2PRFIN20030330_020809_000000522015_00075_05640_6300.N1	30-MAR-2003 02:08:09	Dark	52.000	40	The Sco	1.8590	7100.0	104	5640	No
33	GOM_NL__2PRFIN20030330_021022_000000402015_00075_05640_6301.N1	30-MAR-2003 02:10:22	Dark	40.000	43	Alp TrA	1.9100	4250.0	80	5640	No
34	GOM_NL__2PRFIN20030330_021226_000000802015_00075_05640_6302.N1	30-MAR-2003 02:12:26	Dark	79.500	75	26Eps Sco	2.2910	4250.0	159	5640	No
35	GOM_NL__2PRFIN20030330_021450_000000542015_00075_05640_6303.N1	30-MAR-2003 02:14:50	Dark	54.000	4	Alp1Cen	-0.010000	5800.0	108	5640	No
36	GOM_NL__2PRFIN20030330_021715_000000392015_00075_05640_6304.N1	30-MAR-2003 02:17:15	Straylight	38.500	12	Alp1Cru	0.77500	30000.	77	5640	No
37	GOM_NL__2PRFIN20030330_021840_000000502015_00075_05640_6305.N1	30-MAR-2003 02:18:40	Straylight	49.500	26	Gam Cru	1.6240	2900.0	99	5640	No
38	GOM_NL__2PRFIN20030330_022035_000000432015_00075_05640_6306.N1	30-MAR-2003 02:20:35	Straylight	43.000	64	Gam Cen	2.2000	10600.	86	5640	No
39	GOM_NL__2PRFIN20030330_022804_000000492015_00075_05640_6307.N1	30-MAR-2003 02:28:04	Twilight_and_stray	48.500	106	9Bet Crv	2.6480	5600.0	97	5640	No
40	GOM_NL__2PRFIN20030330_023005_000000442015_00075_05640_6308.N1	30-MAR-2003 02:30:05	Twilight_and_stray	44.000	100	4Gam Crv	2.5800	13100.	88	5640	No
41	GOM_NL__2PRFIN20030330_023200_000000742015_00075_05640_6309.N1	30-MAR-2003 02:32:00	Bright	74.000	15	67Alp Vir	0.97600	28000.	148	5640	No
42	GOM_NL__2PRFIN20030330_023518_000000462015_00075_05640_6310.N1	30-MAR-2003 02:35:18	Bright	46.000	121	29Gam Vir	2.7400	7200.0	92	5640	No

43	GOM_NL__2PRFIN20030330_024129_000000382015_00075_05640_6311.N1	30-MAR-2003 02:41:29	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	5640	No
44	GOM_NL__2PRFIN20030330_024820_000000382015_00075_05640_6312.N1	30-MAR-2003 02:48:20	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	5640	No
45	GOM_NL__2PRFIN20030330_025140_000000372015_00075_05640_6313.N1	30-MAR-2003 02:51:40	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	5640	No
46	GOM_NL__2PRFIN20030330_025312_000000382015_00075_05640_6314.N1	30-MAR-2003 02:53:12	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	5640	No
47	GOM_NL__2PRFIN20030330_025515_000000672015_00075_05640_6315.N1	30-MAR-2003 02:55:15	Bright	67.000	180	27Gam Boo	3.0400	8000.0	134	5640	No
48	GOM_NL__2PRFIN20030330_025940_000000382015_00075_05640_6316.N1	30-MAR-2003 02:59:40	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	5640	No
49	GOM_NL__2PRFIN20030330_030111_000000342015_00075_05640_6317.N1	30-MAR-2003 03:01:11	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	5640	No
50	GOM_NL__2PRFIN20030330_030245_000000492015_00075_05640_6318.N1	30-MAR-2003 03:02:45	Bright	49.000	119	14Eta Dra	2.7270	4700.0	98	5640	No
51	GOM_NL__2PRFIN20030330_031355_000000482015_00075_05640_6319.N1	30-MAR-2003 03:13:55	Bright	48.000	144	18Del Cyg	2.8600	11000.	96	5640	No
52	GOM_NL__2PRFIN20030330_031544_000000432015_00075_05640_6320.N1	30-MAR-2003 03:15:44	Bright	43.000	66	37Gam Cyg	2.2080	5900.0	86	5640	No
53	GOM_NL__2PRFIN20030330_031742_000000422015_00075_05640_6321.N1	30-MAR-2003 03:17:42	Bright	42.000	92	53Eps Cyg	2.5000	4500.0	84	5640	No
54	GOM_NL__2PRFIN20030330_032410_000000532015_00075_05640_6322.N1	30-MAR-2003 03:24:10	Bright	53.000	61	8Eps Peg	2.1000	3900.0	106	5640	No
55	GOM_NL__2PRFIN20030330_032726_000000642015_00075_05640_6323.N1	30-MAR-2003 03:27:26	Dark	64.000	11	53Alp Aql	0.76500	8000.0	128	5640	No
56	GOM_NL__2PRFIN20030330_033118_000000382015_00075_05640_6324.N1	30-MAR-2003 03:31:18	Dark	38.000	142	49Del Cap	2.8500	8900.0	76	5640	No
57	GOM_NL__2PRFIN20030330_034453_000000562015_00076_05641_6287.N1	30-MAR-2003 03:44:53	Dark	56.000	38	20Eps Sgr	1.8360	11000.	112	5641	No
58	GOM_NL__2PRFIN20030330_034846_000000532015_00076_05641_6288.N1	30-MAR-2003 03:48:46	Dark	52.500	40	The Sco	1.8590	7100.0	105	5641	No
59	GOM_NL__2PRFIN20030330_035059_000000392015_00076_05641_6289.N1	30-MAR-2003 03:50:59	Dark	38.500	43	Alp TrA	1.9100	4250.0	77	5641	No
60	GOM_NL__2PRFIN20030330_035304_000000782015_00076_05641_6290.N1	30-MAR-2003 03:53:04	Dark	78.000	75	26Eps Sco	2.2910	4250.0	156	5641	No
61	GOM_NL__2PRFIN20030330_035526_000000502015_00076_05641_6291.N1	30-MAR-2003 03:55:26	Dark	49.500	4	Alp1Cen	-0.010000	5800.0	99	5641	No
62	GOM_NL__2PRFIN20030330_035751_000000392015_00076_05641_6292.N1	30-MAR-2003 03:57:51	Straylight	38.500	12	Alp1Cru	0.77500	30000.	77	5641	No
63	GOM_NL__2PRFIN20030330_035917_000000432015_00076_05641_6293.N1	30-MAR-2003 03:59:17	Straylight	42.500	26	Gam Cru	1.6240	2900.0	85	5641	No
64	GOM_NL__2PRFIN20030330_040111_000000432015_00076_05641_6294.N1	30-MAR-2003 04:01:11	Straylight	43.000	64	Gam Cen	2.2000	10600.	86	5641	No
65	GOM_NL__2PRFIN20030330_040841_000000462015_00076_05641_6295.N1	30-MAR-2003 04:08:41	Tw_i_and_stray	46.000	106	9Bet Crv	2.6480	5600.0	92	5641	No
66	GOM_NL__2PRFIN20030330_041041_000000412015_00076_05641_6296.N1	30-MAR-2003 04:10:41	Tw_i_and_stray	41.000	100	4Gam Crv	2.5800	13100.	82	5641	No
67	GOM_NL__2PRFIN20030330_041236_000000612015_00076_05641_6297.N1	30-MAR-2003 04:12:36	Bright	61.000	15	67Alp Vir	0.97600	28000.	122	5641	No
68	GOM_NL__2PRFIN20030330_041554_000000452015_00076_05641_6298.N1	30-MAR-2003 04:15:54	Bright	44.500	121	29Gam Vir	2.7400	7200.0	89	5641	No
69	GOM_NL__2PRFIN20030330_042205_000000382015_00076_05641_6299.N1	30-MAR-2003 04:22:05	Bright	37.500	96	68Del Leo	2.5600	9300.0	75	5641	No
70	GOM_NL__2PRFIN20030330_042856_000000382015_00076_05641_6300.N1	30-MAR-2003 04:28:56	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	5641	No
71	GOM_NL__2PRFIN20030330_043216_000000372015_00076_05641_6301.N1	30-MAR-2003 04:32:16	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	5641	No
72	GOM_NL__2PRFIN20030330_043347_000000382015_00076_05641_6302.N1	30-MAR-2003 04:33:47	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	5641	No
73	GOM_NL__2PRFIN20030330_043549_000000692015_00076_05641_6303.N1	30-MAR-2003 04:35:49	Bright	68.500	180	27Gam Boo	3.0400	8000.0	137	5641	No
74	GOM_NL__2PRFIN20030330_044016_000000402015_00076_05641_6304.N1	30-MAR-2003 04:40:16	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	5641	No
75	GOM_NL__2PRFIN20030330_044147_000000372015_00076_05641_6305.N1	30-MAR-2003 04:41:47	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	5641	No
76	GOM_NL__2PRFIN20030330_044320_000000482015_00076_05641_6306.N1	30-MAR-2003 04:43:20	Bright	47.500	119	14Eta Dra	2.7270	4700.0	95	5641	No
77	GOM_NL__2PRFIN20030330_045431_000000462015_00076_05641_6307.N1	30-MAR-2003 04:54:31	Bright	45.500	144	18Del Cyg	2.8600	11000.	91	5641	No
78	GOM_NL__2PRFIN20030330_045619_000000432015_00076_05641_6308.N1	30-MAR-2003 04:56:19	Bright	42.500	66	37Gam Cyg	2.2080	5900.0	85	5641	No
79	GOM_NL__2PRFIN20030330_045818_000000432015_00076_05641_6309.N1	30-MAR-2003 04:58:18	Bright	43.000	92	53Eps Cyg	2.5000	4500.0	86	5641	No
80	GOM_NL__2PRFIN20030330_050446_000000462015_00076_05641_6310.N1	30-MAR-2003 05:04:46	Bright	45.500	61	8Eps Peg	2.1000	3900.0	91	5641	No
81	GOM_NL__2PRFIN20030330_050802_000000602015_00076_05641_6311.N1	30-MAR-2003 05:08:02	Dark	60.000	11	53Alp Aql	0.76500	8000.0	120	5641	No
82	GOM_NL__2PRFIN20030330_051155_000000402015_00076_05641_6312.N1	30-MAR-2003 05:11:55	Dark	39.500	142	49Del Cap	2.8500	8900.0	79	5641	No
83	GOM_NL__2PRFIN20030330_052530_000000582015_00077_05642_6299.N1	30-MAR-2003 05:25:30	Dark	58.000	38	20Eps Sgr	1.8360	11000.	116	5642	No
84	GOM_NL__2PRFIN20030330_052923_000000632015_00077_05642_6300.N1	30-MAR-2003 05:29:23	Dark	63.000	40	The Sco	1.8590	7100.0	126	5642	No
85	GOM_NL__2PRFIN20030330_053135_000000492015_00077_05642_6301.N1	30-MAR-2003 05:31:35	Dark	49.000	43	Alp TrA	1.9100	4250.0	98	5642	No
86	GOM_NL__2PRFIN20030330_053341_000000722015_00077_05642_6302.N1	30-MAR-2003 05:33:41	Dark	72.000	75	26Eps Sco	2.2910	4250.0	144	5642	No
87	GOM_NL__2PRFIN20030330_053603_000000452015_00077_05642_6303.N1	30-MAR-2003 05:36:03	Dark	45.000	4	Alp1Cen	-0.010000	5800.0	90	5642	No
88	GOM_NL__2PRFIN20030330_053827_000000382015_00077_05642_6304.N1	30-MAR-2003 05:38:27	Straylight	37.500	12	Alp1Cru	0.77500	30000.	75	5642	No
89	GOM_NL__2PRFIN20030330_053953_000000532015_00077_05642_6305.N1	30-MAR-2003 05:39:53	Straylight	53.000	26	Gam Cru	1.6240	2900.0	106	5642	No
90	GOM_NL__2PRFIN20030330_054148_000000412015_00077_05642_6306.N1	30-MAR-2003 05:41:48	Straylight	41.000	64	Gam Cen	2.2000	10600.	82	5642	No
91	GOM_NL__2PRFIN20030330_054917_000000462015_00077_05642_6307.N1	30-MAR-2003 05:49:17	Tw_i_and_stray	45.500	106	9Bet Crv	2.6480	5600.0	91	5642	No
92	GOM_NL__2PRFIN20030330_055117_000000452015_00077_05642_6308.N1	30-MAR-2003 05:51:17	Tw_i_and_stray	44.500	100	4Gam Crv	2.5800	13100.	89	5642	No
93	GOM_NL__2PRFIN20030330_055312_000000722015_00077_05642_6309.N1	30-MAR-2003 05:53:12	Bright	72.000	15	67Alp Vir	0.97600	28000.	144	5642	No
94	GOM_NL__2PRFIN20030330_055630_000000452015_00077_05642_6310.N1	30-MAR-2003 05:56:30	Bright	45.000	121	29Gam Vir	2.7400	7200.0	90	5642	No
95	GOM_NL__2PRFIN20030330_060241_000000372015_00077_05642_6311.N1	30-MAR-2003 06:02:41	Bright	36.500	96	68Del Leo	2.5600	9300.0	73	5642	No
96	GOM_NL__2PRFIN20030330_060932_000000372015_00077_05642_6312.N1	30-MAR-2003 06:09:32	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	5642	No
97	GOM_NL__2PRFIN20030330_061252_000000352015_00077_05642_6313.N1	30-MAR-2003 06:12:52	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	5642	No
98	GOM_NL__2PRFIN20030330_061423_000000382015_00077_05642_6314.N1	30-MAR-2003 06:14:23	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	5642	No
99	GOM_NL__2PRFIN20030330_061624_000000682015_00077_05642_6315.N1	30-MAR-2003 06:16:24	Bright	67.500	180	27Gam Boo	3.0400	8000.0	135	5642	No
100	GOM_NL__2PRFIN20030330_062051_000000412015_00077_05642_6316.N1	30-MAR-2003 06:20:51	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	5642	No
101	GOM_NL__2PRFIN20030330_062222_000000362015_00077_05642_6317.N1	30-MAR-2003 06:22:22	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	5642	No

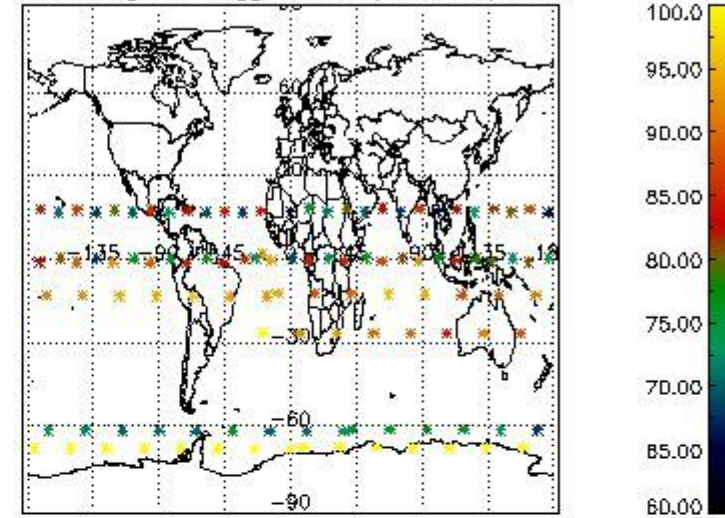


3.2 Plot quality information per product (world map)

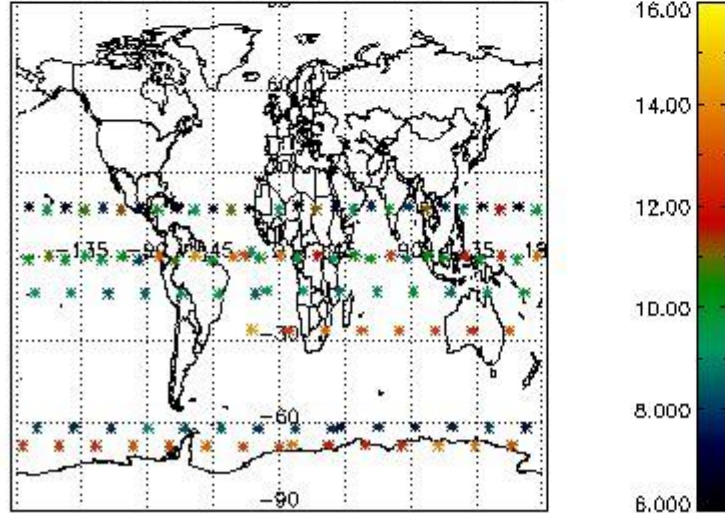
Percentage of flagged data per O3 profile



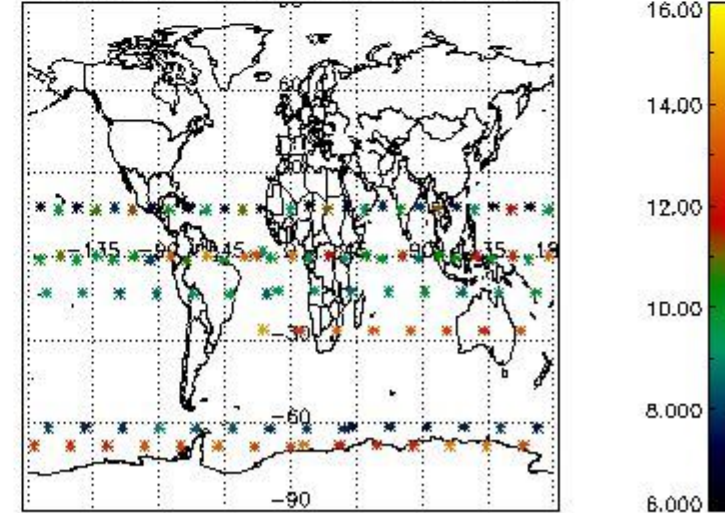
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

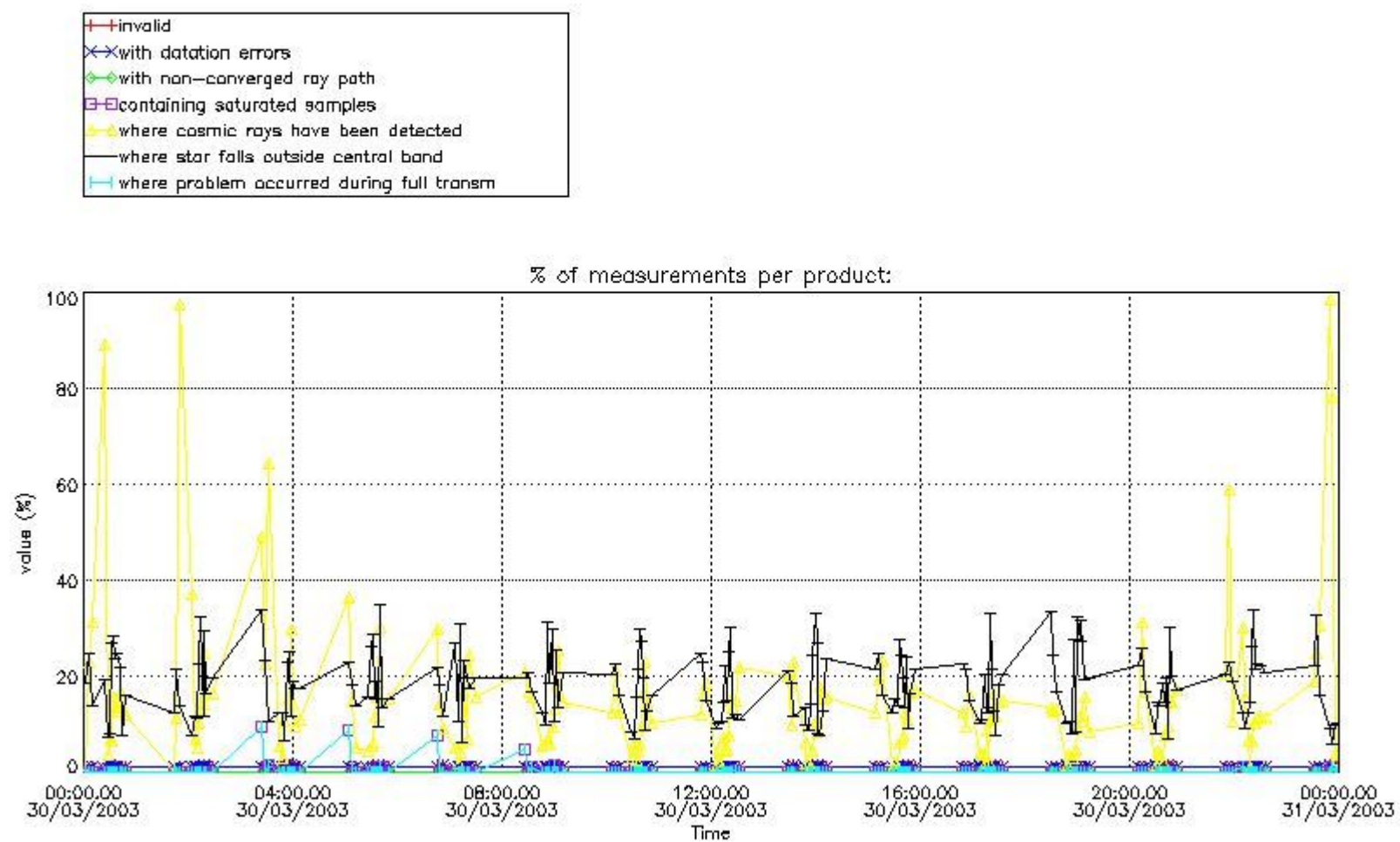


4. Level 1 quality information per product

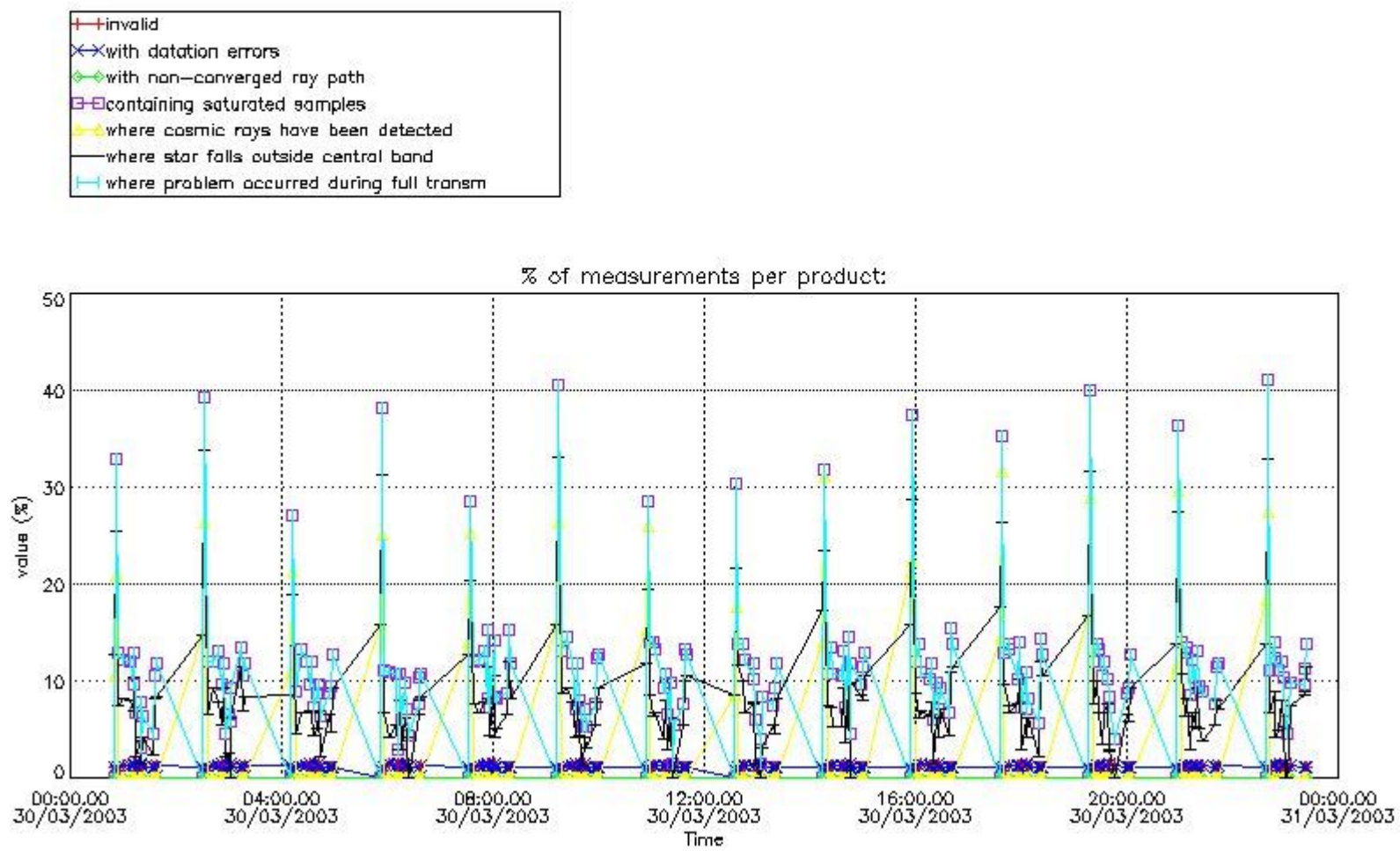
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



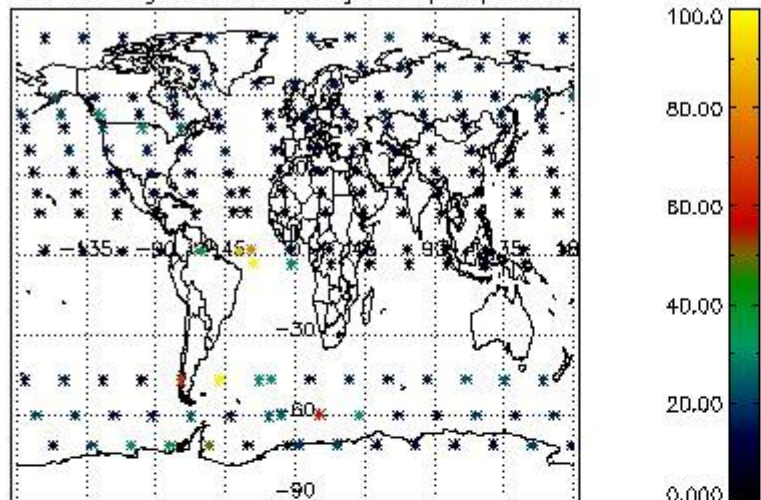
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



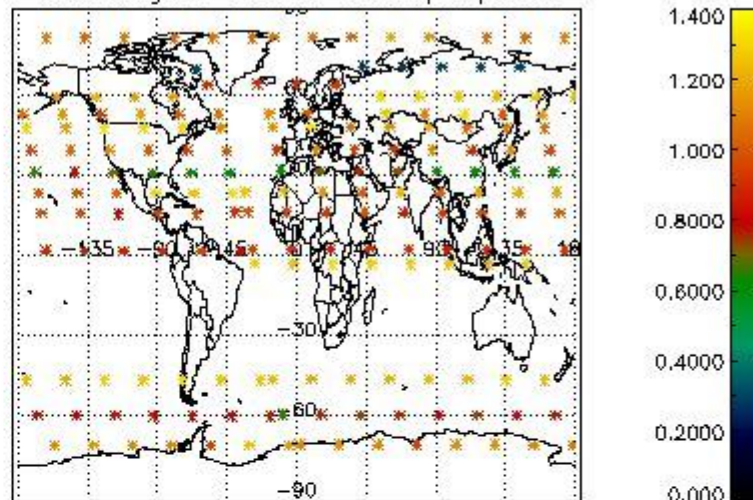
4.2 Plot quality information per product coming from level 1b processing (world map)

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

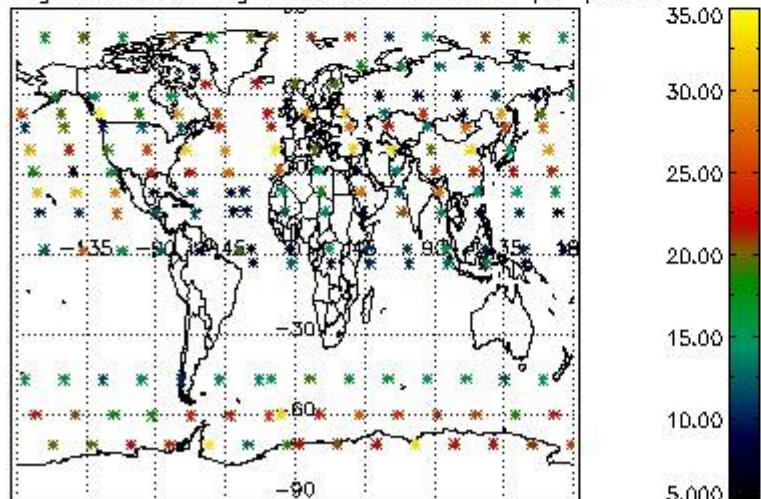
Percentage of cosmic ray hits per profile



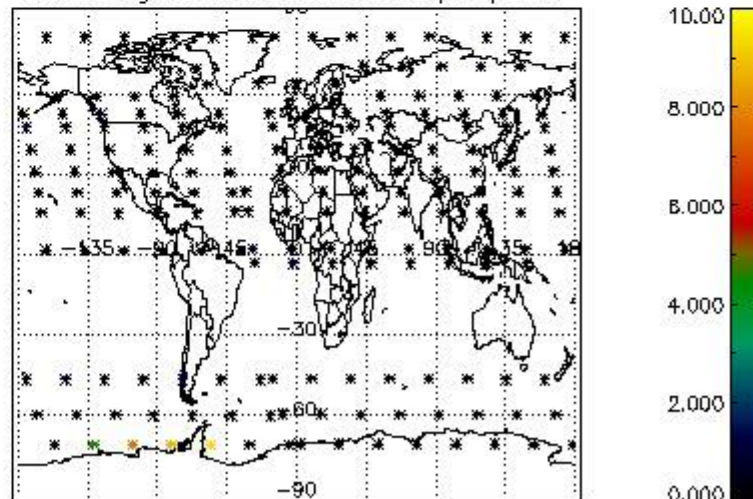
Percentage of datation errors per profile



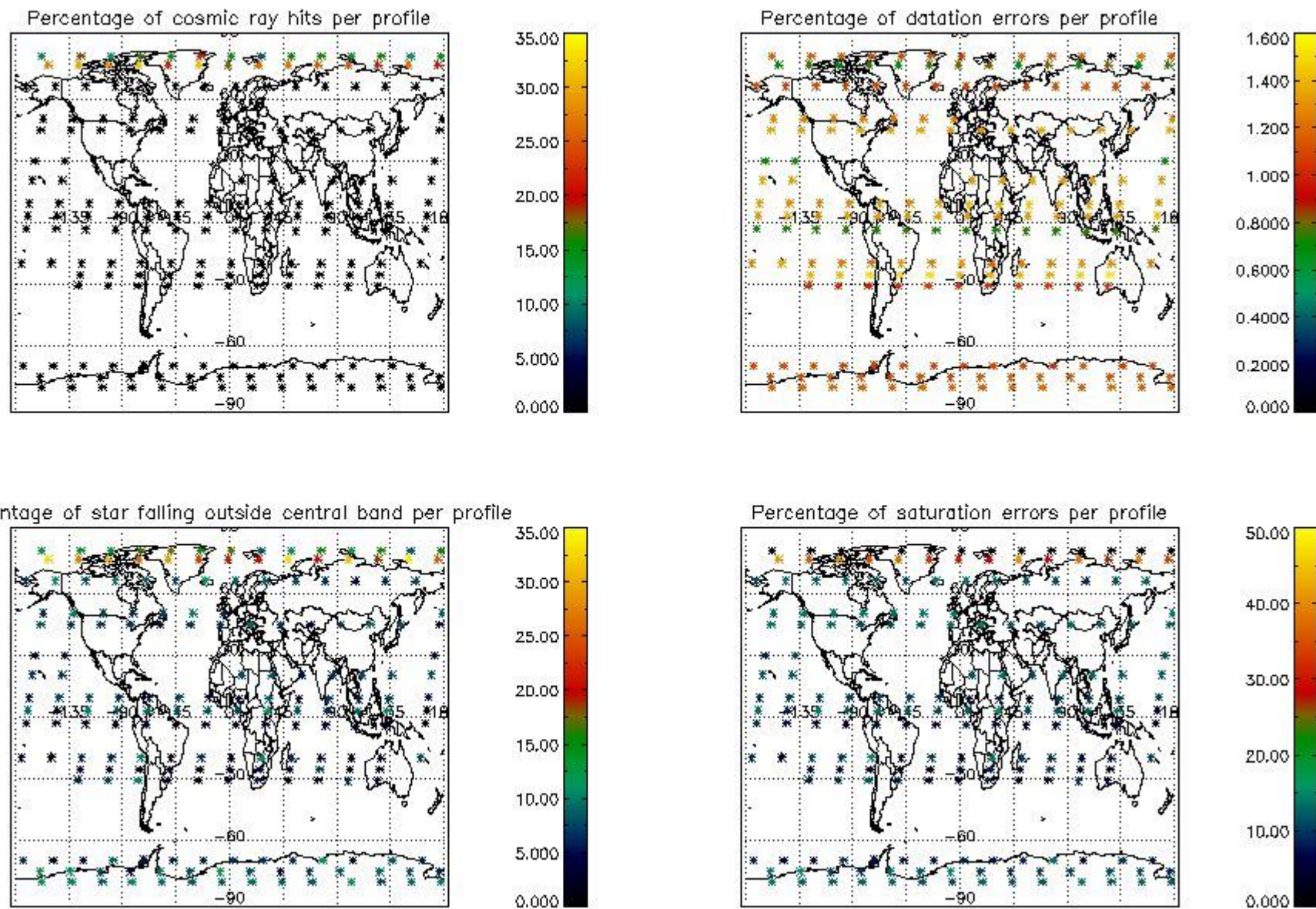
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

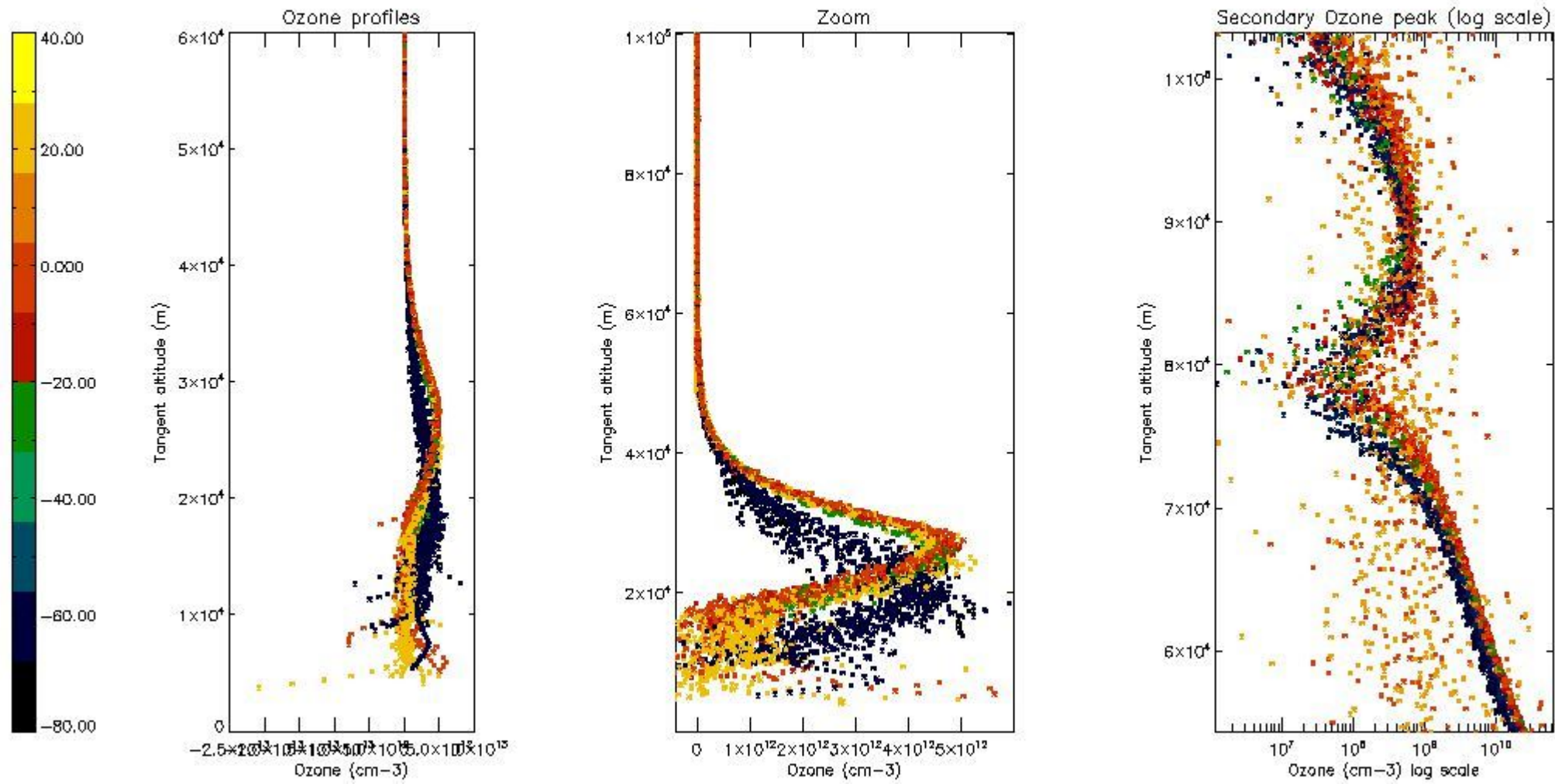
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	18

STD < 10	15
STD < 5	10

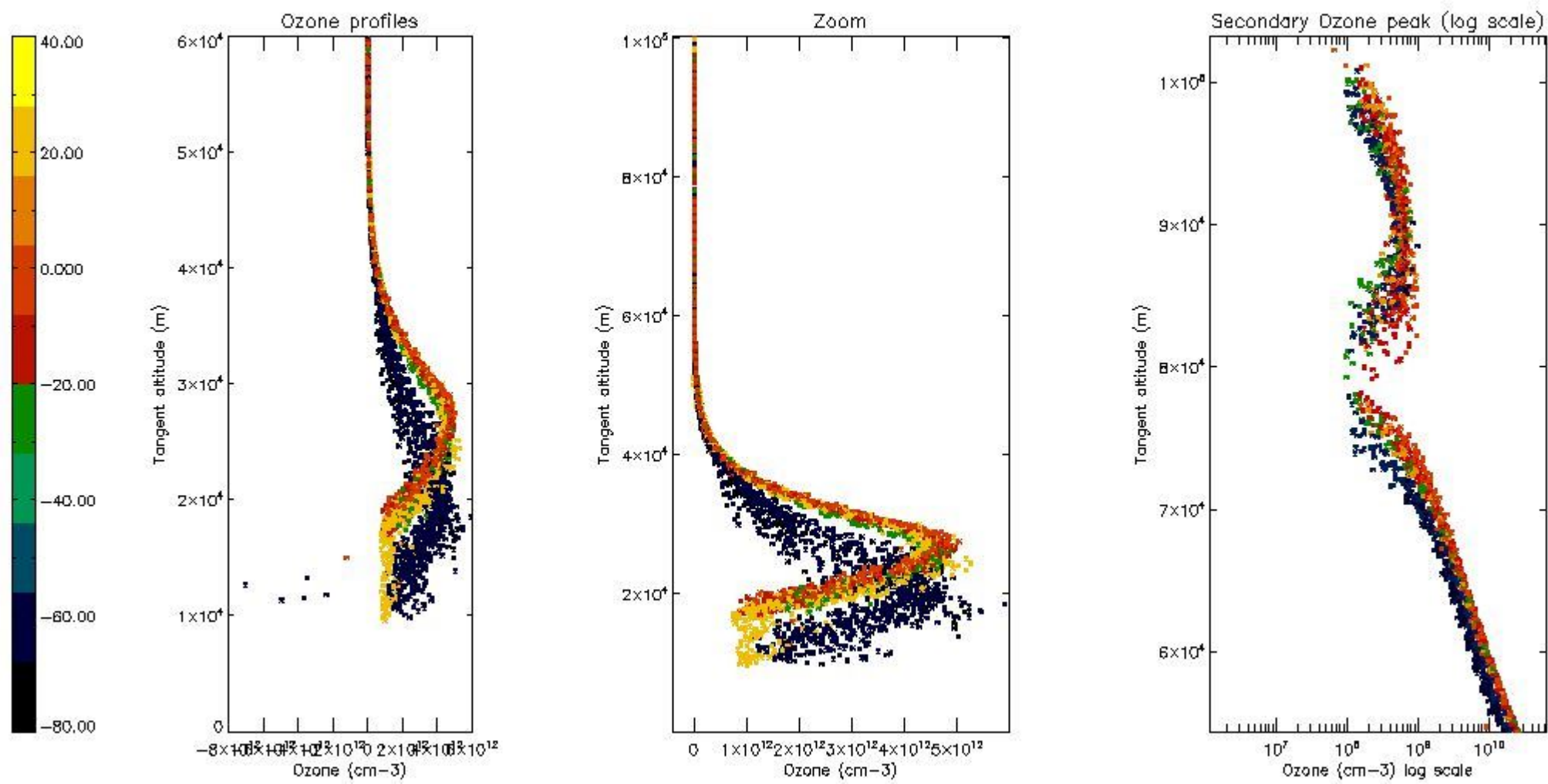
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



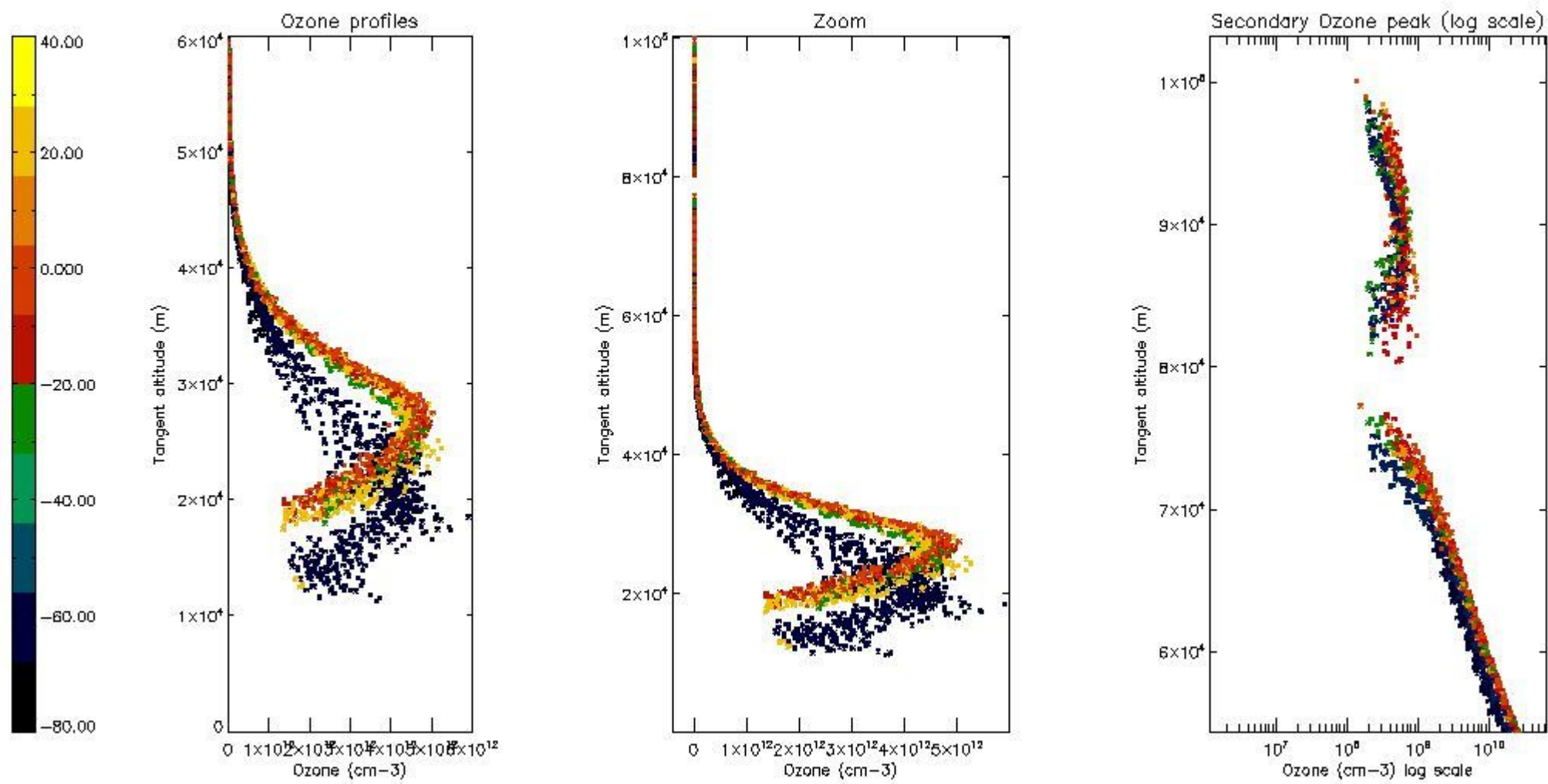
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



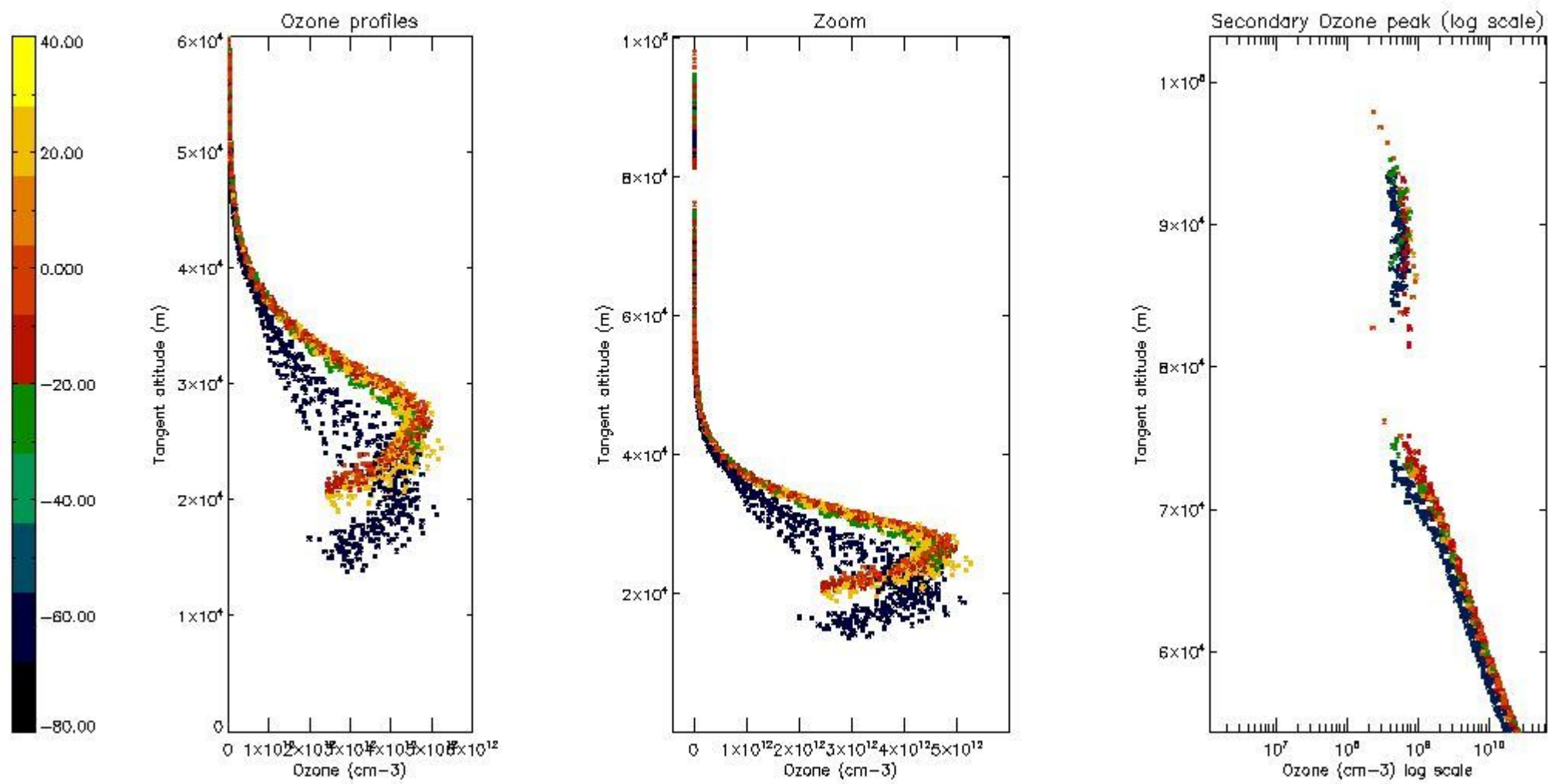
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



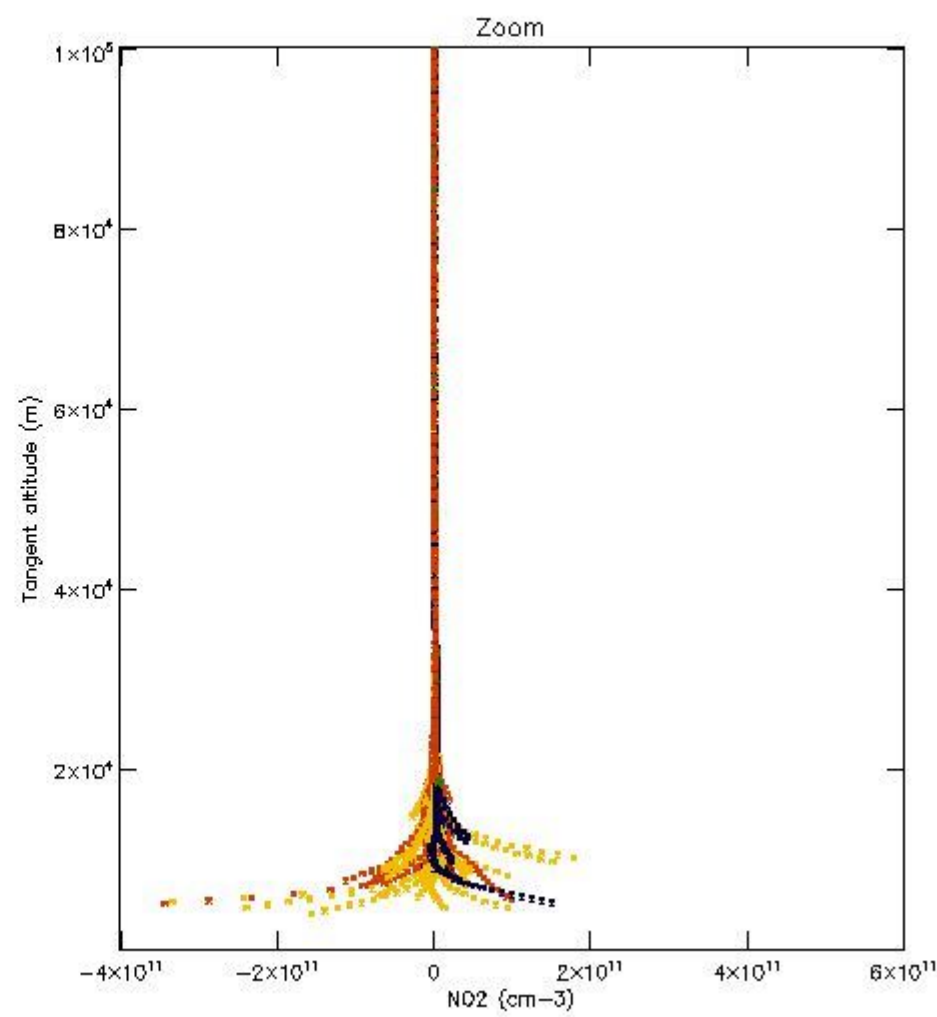
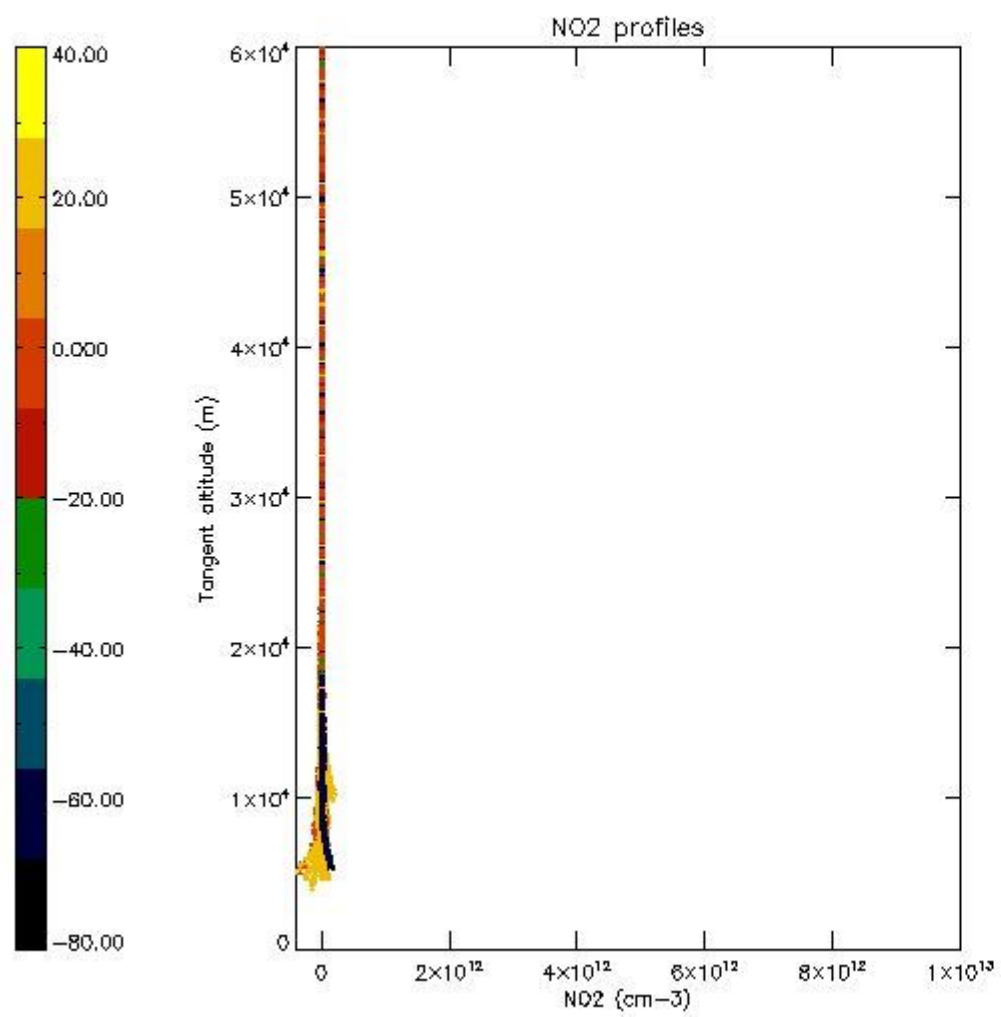
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



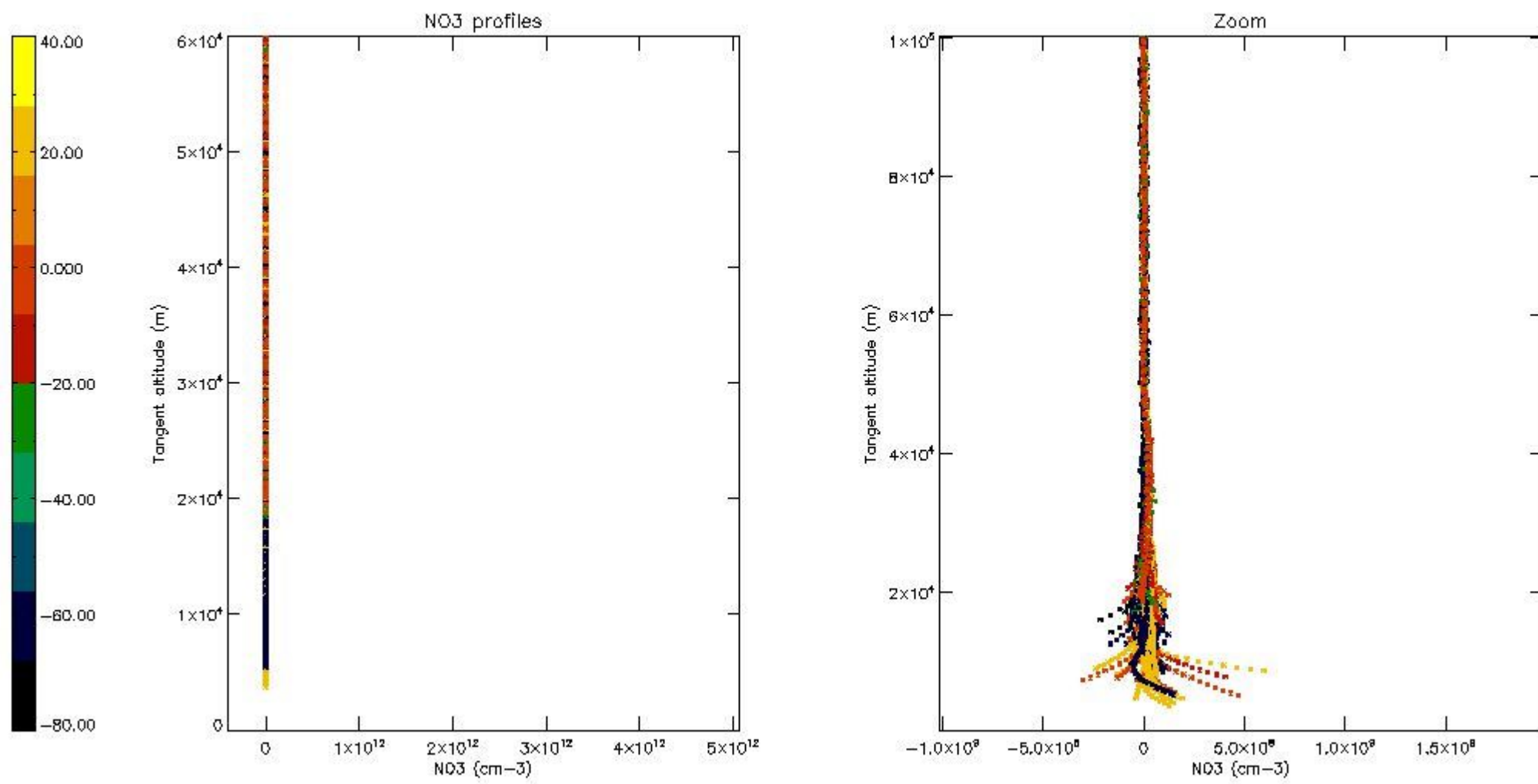
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



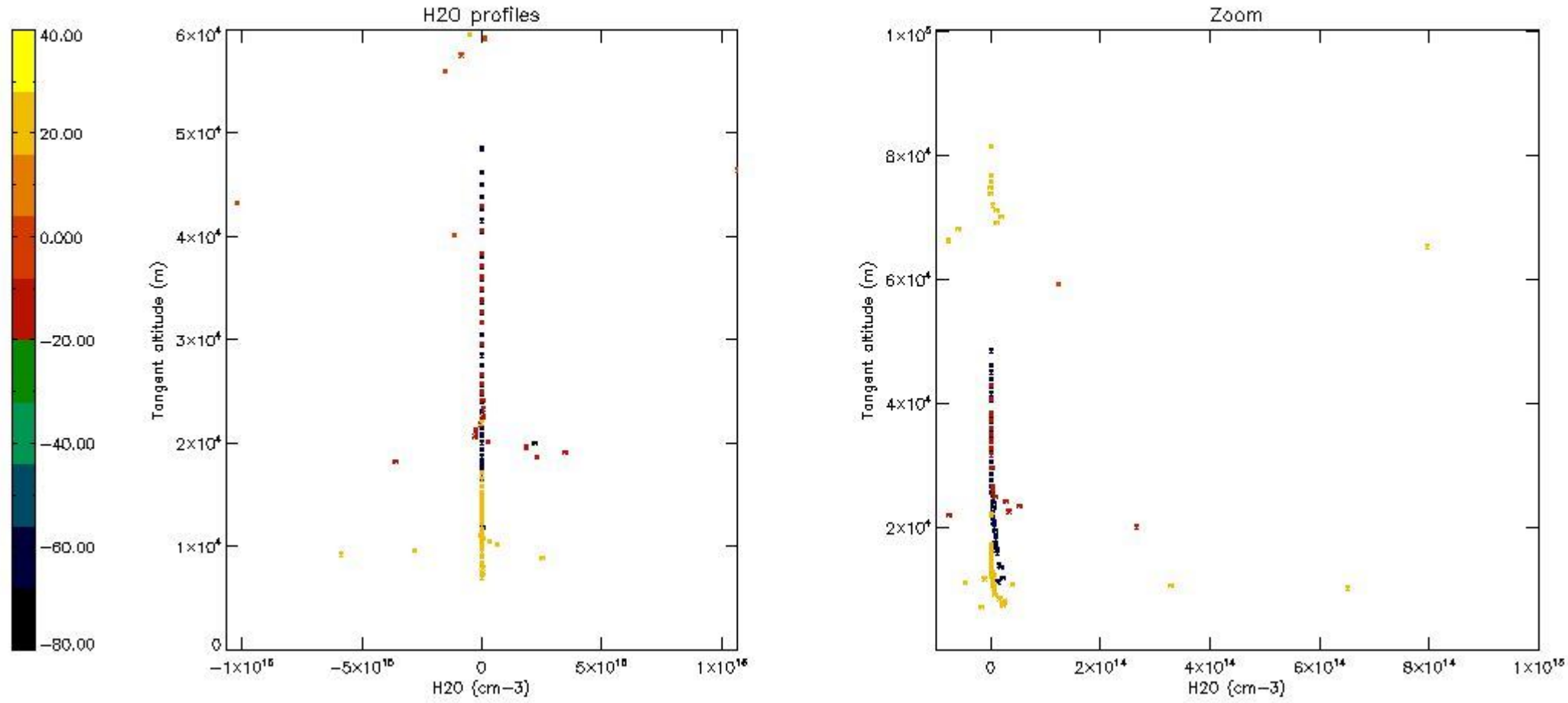
5.7 Plot NO₃ profiles for all STD (dark without errors)

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)

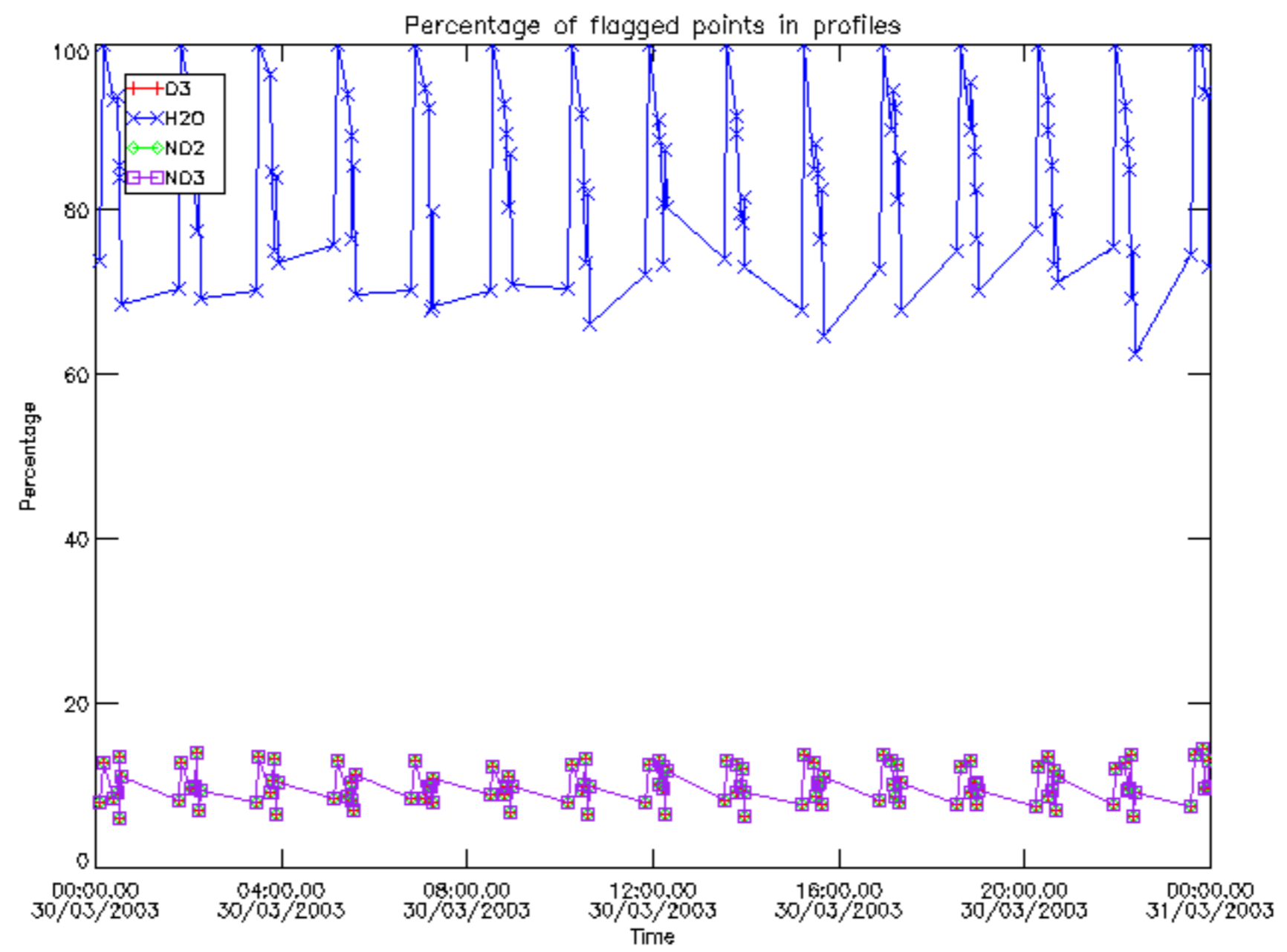
The colorbar represents the latitude.



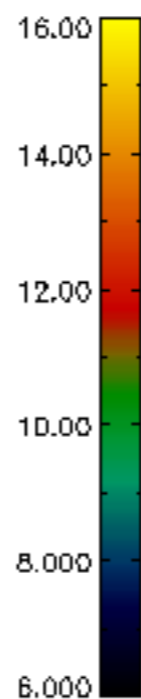
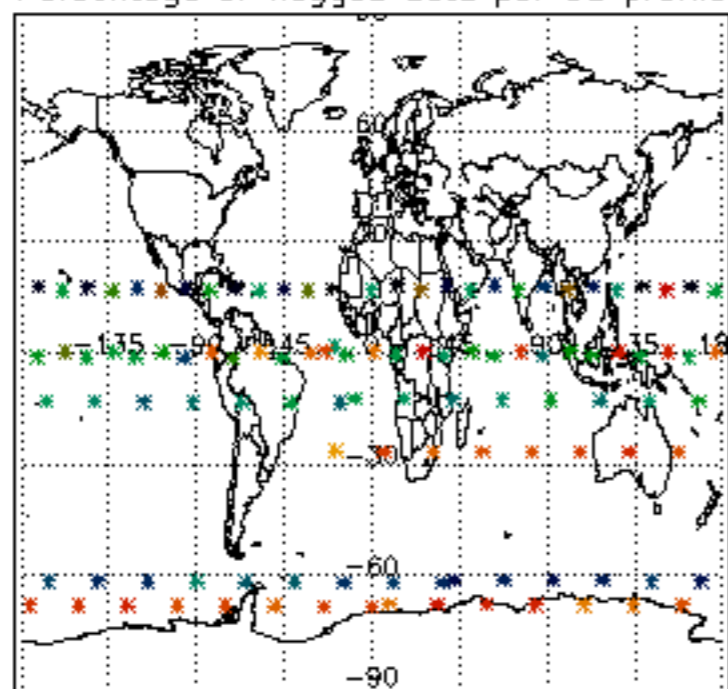
6. Auxiliary Data Files used for the production reported in section 2

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.

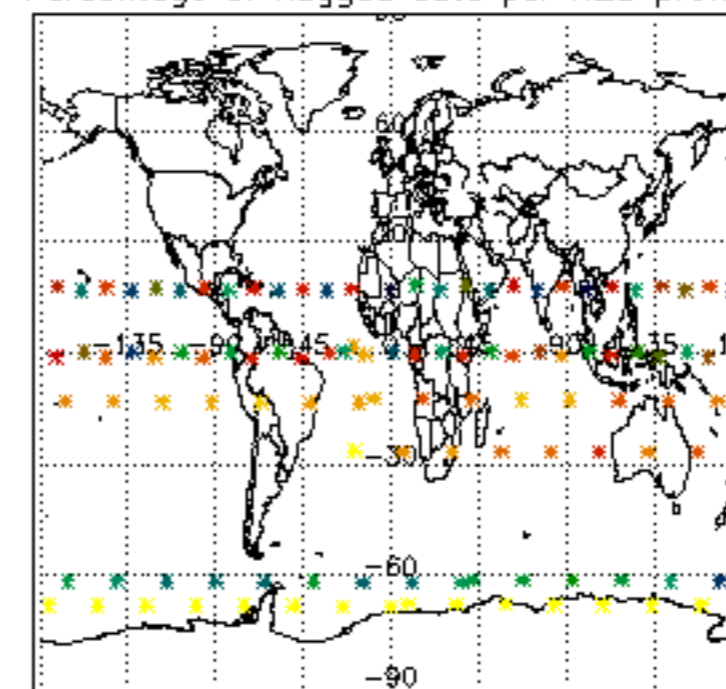
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	30-MAR-2003 00:02:57
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	30-MAR-2003 00:02:57
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	30-MAR-2003 00:02:57



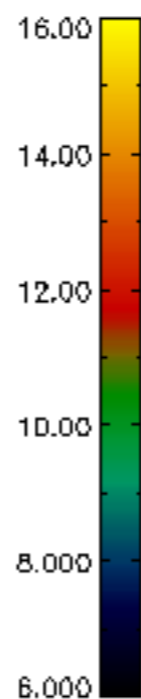
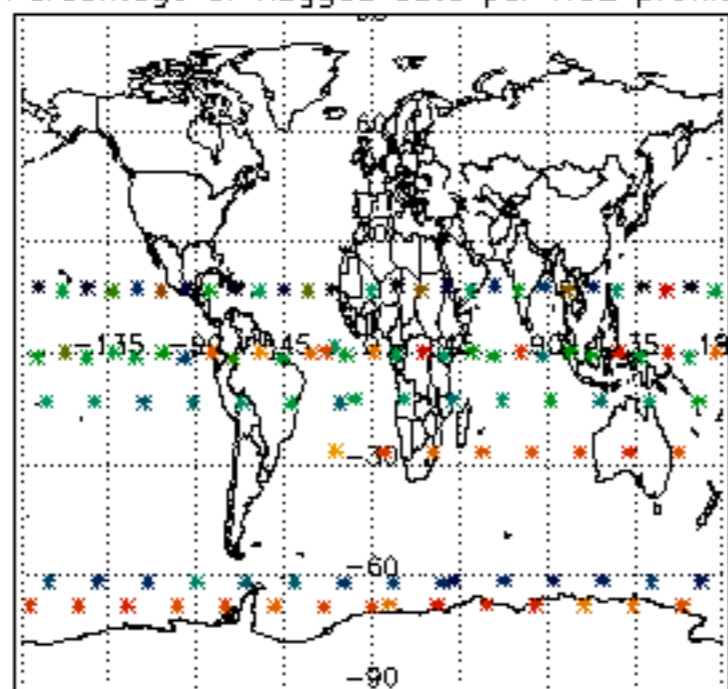
Percentage of flagged data per D3 profile



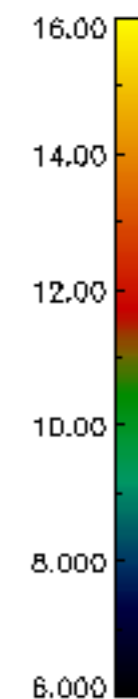
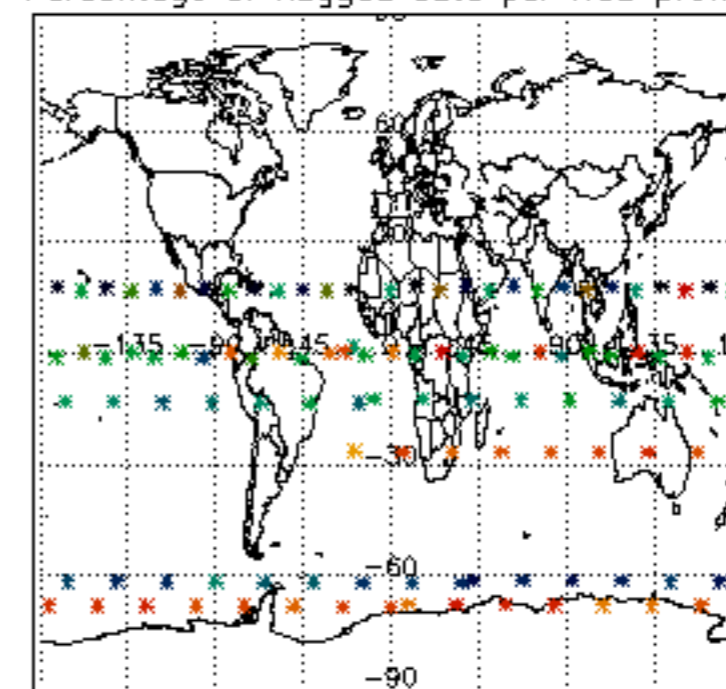
Percentage of flagged data per H2O profile

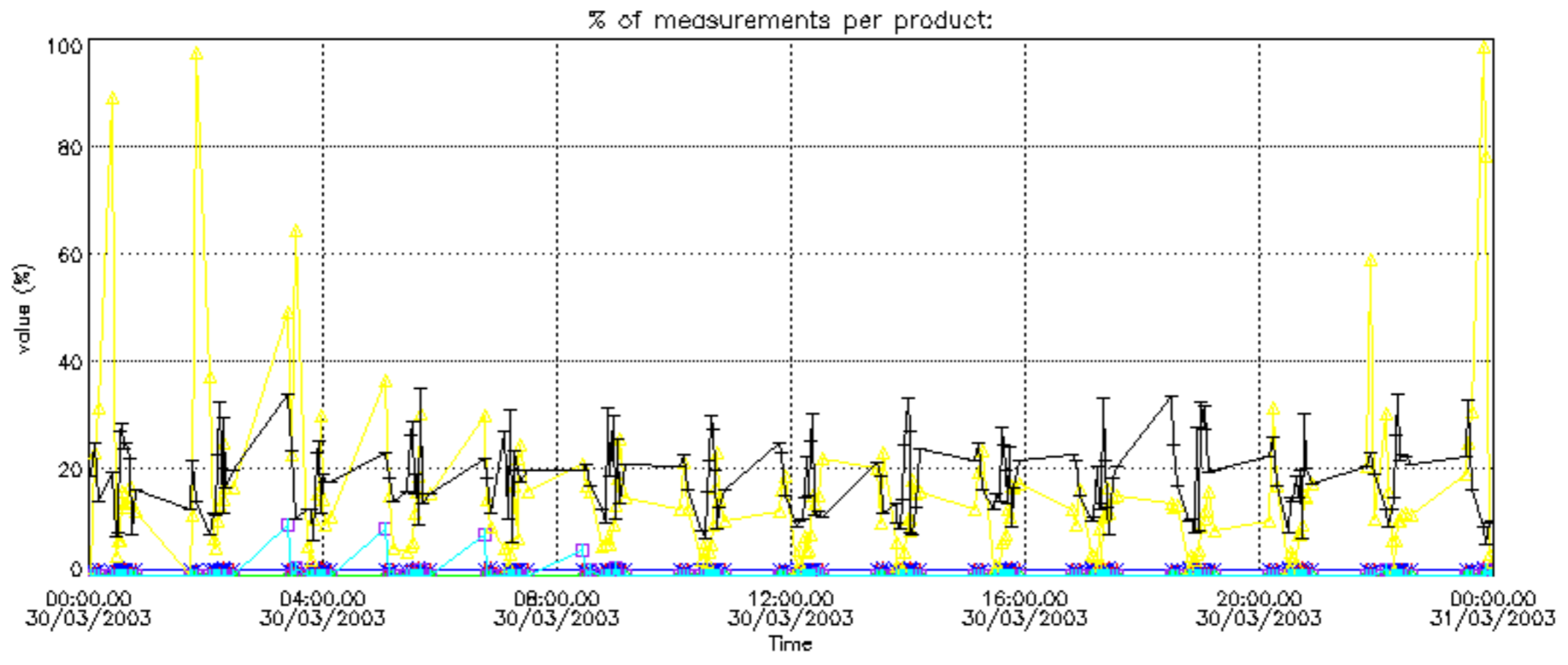


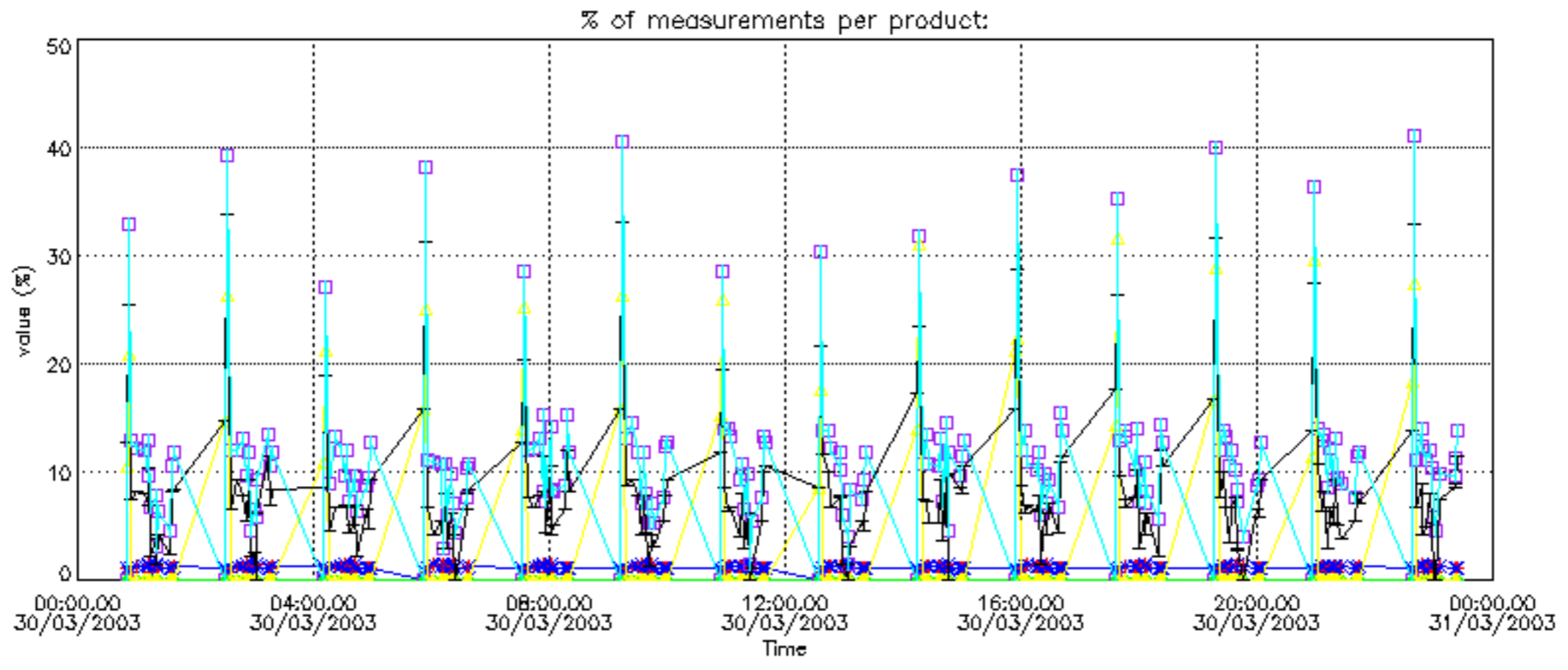
Percentage of flagged data per NO2 profile



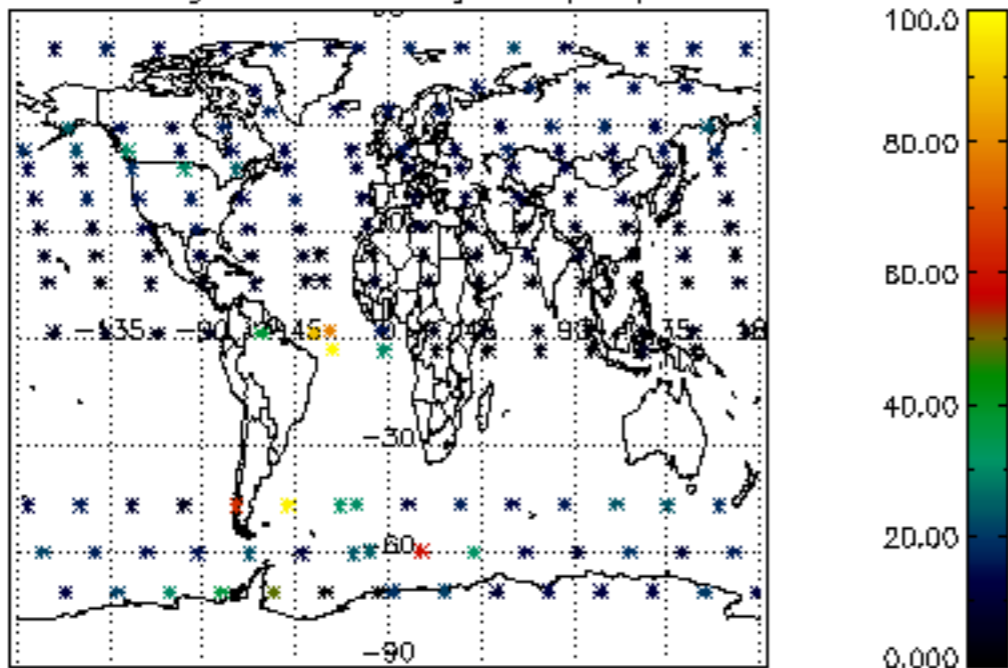
Percentage of flagged data per NO3 profile



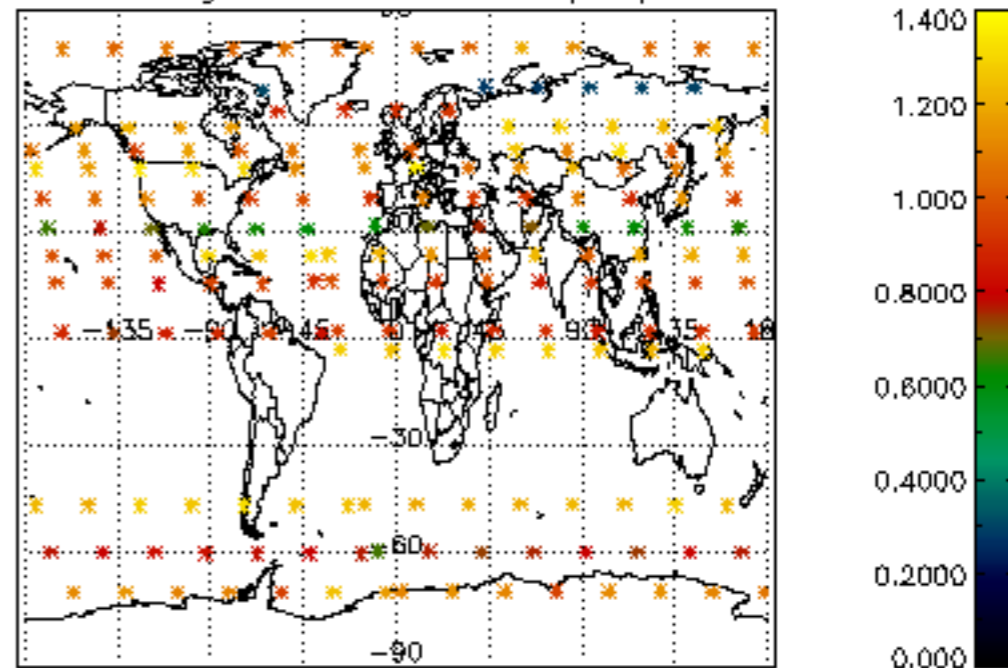




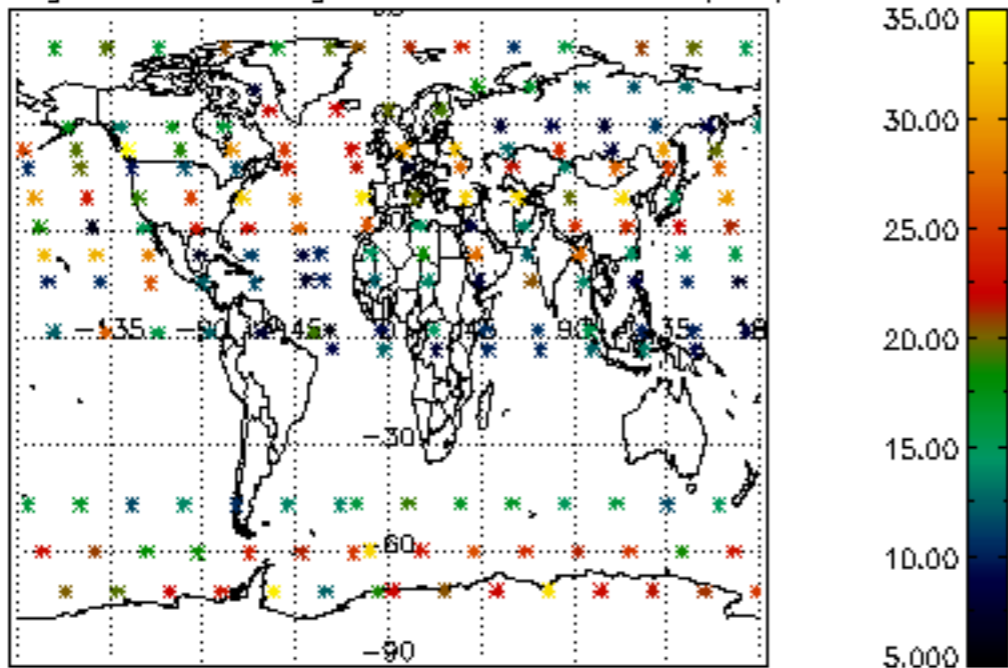
Percentage of cosmic ray hits per profile



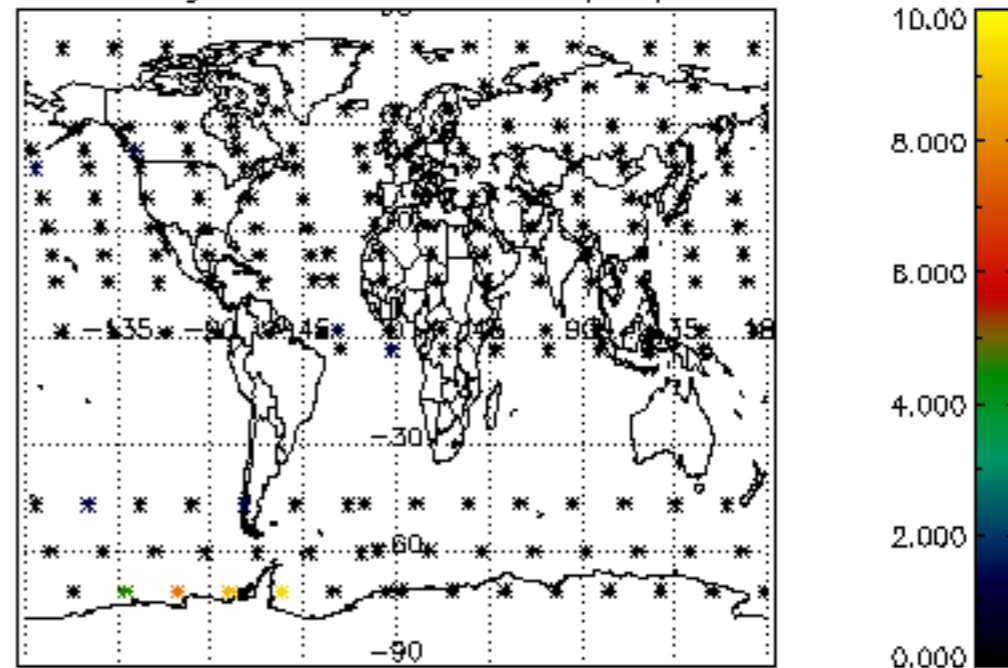
Percentage of datation errors per profile



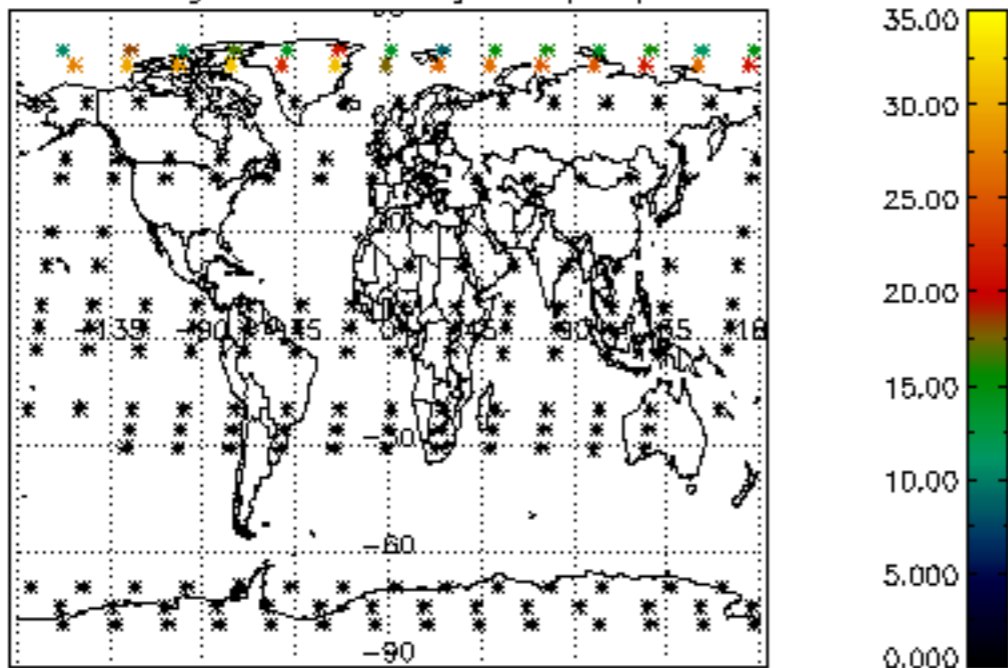
Percentage of star falling outside central band per profile



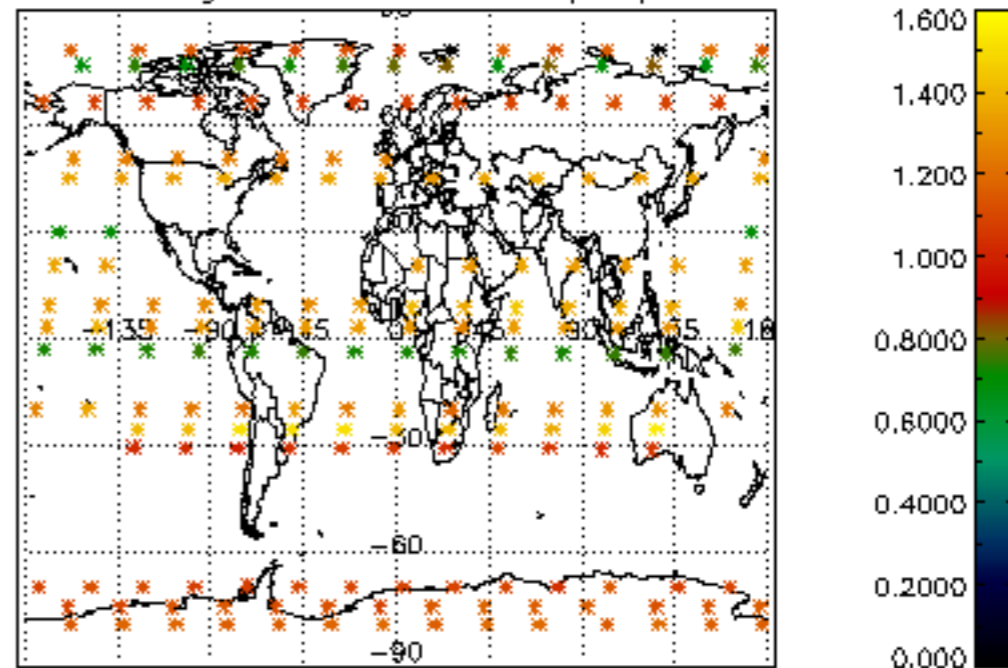
Percentage of saturation errors per profile



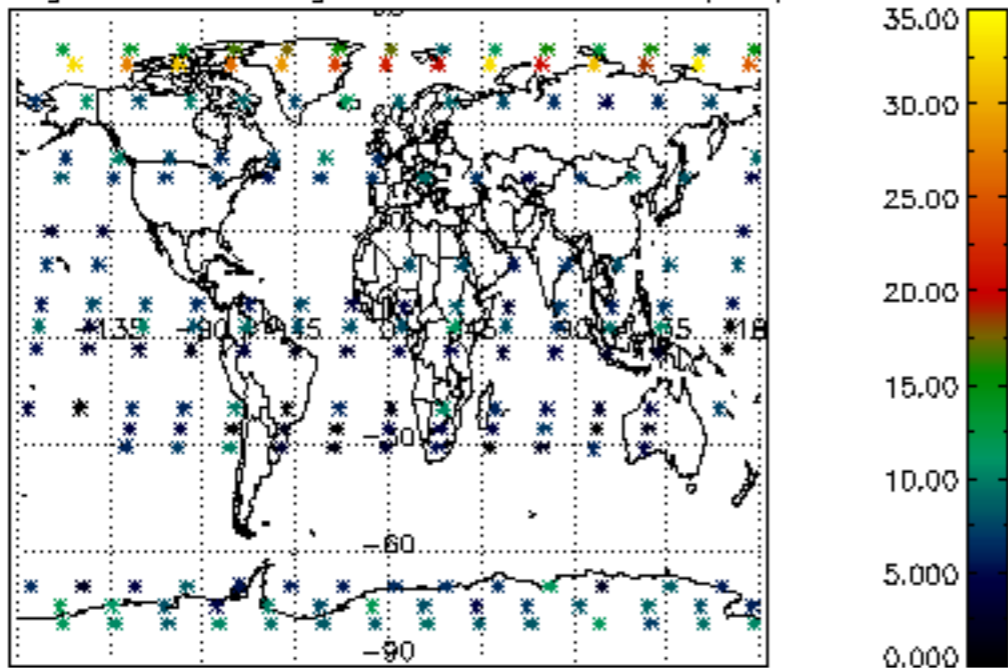
Percentage of cosmic ray hits per profile



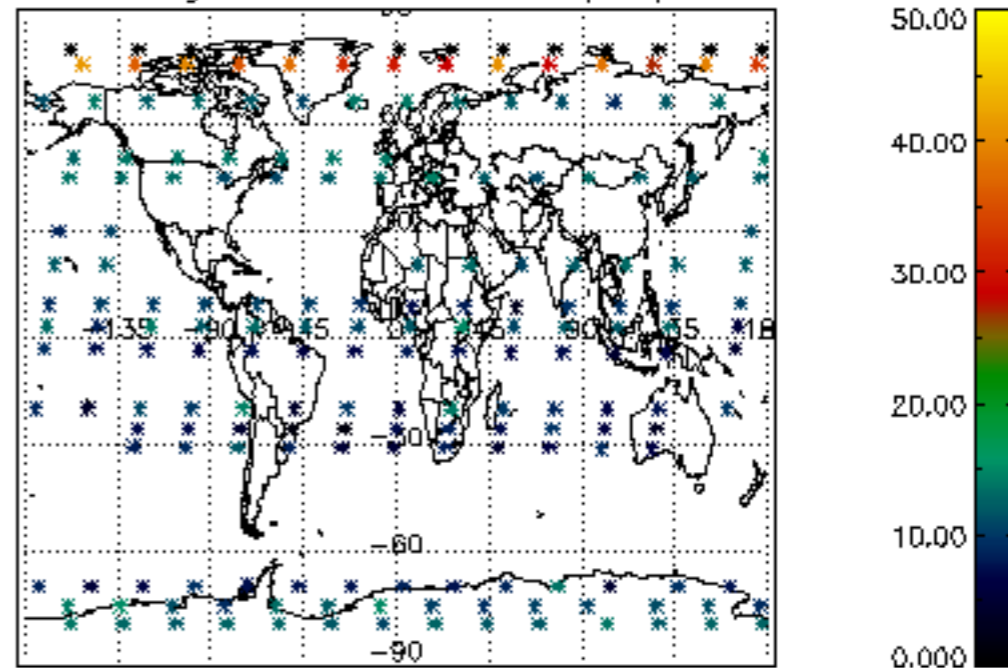
Percentage of datation errors per profile

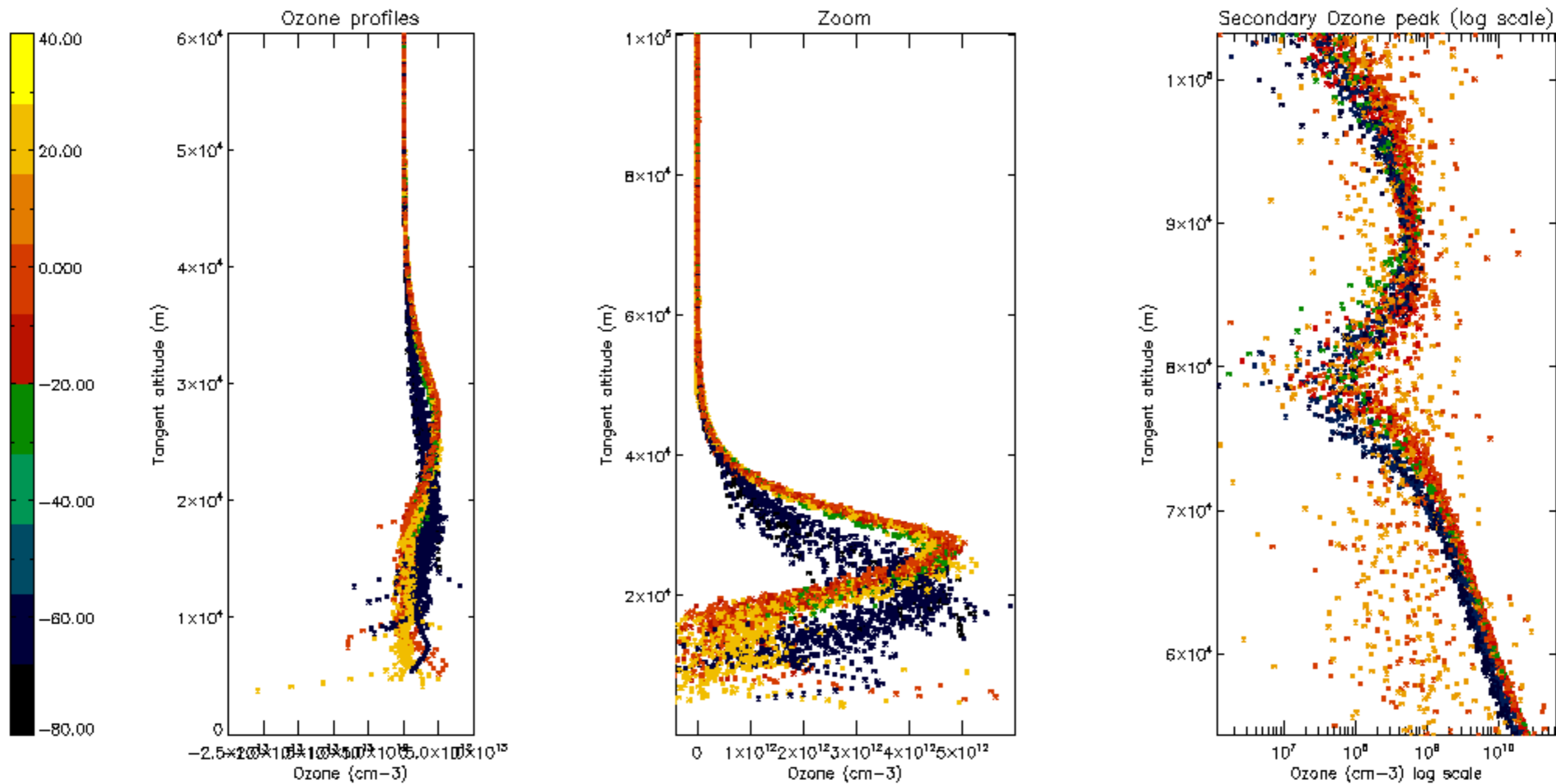


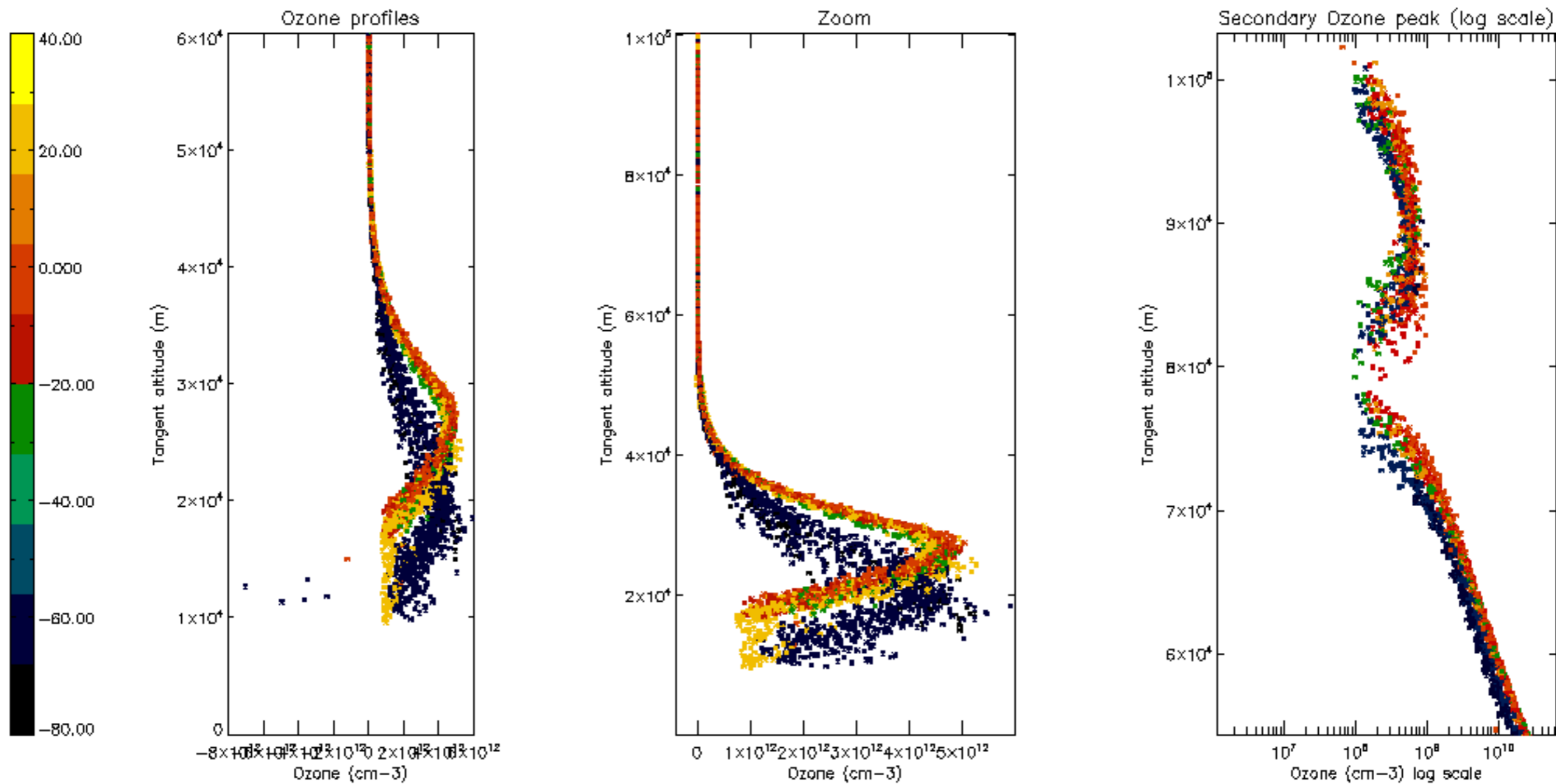
Percentage of star falling outside central band per profile

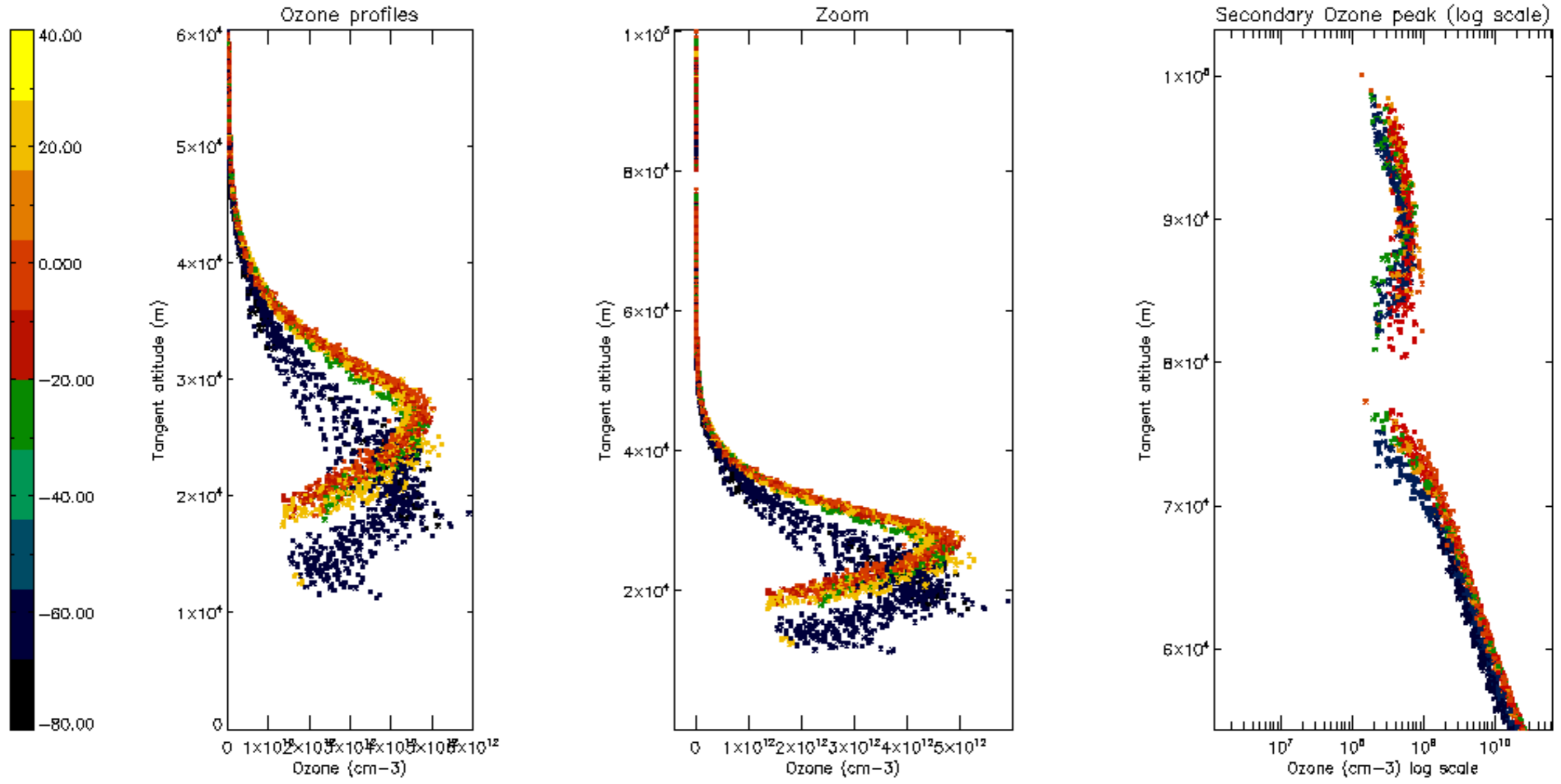


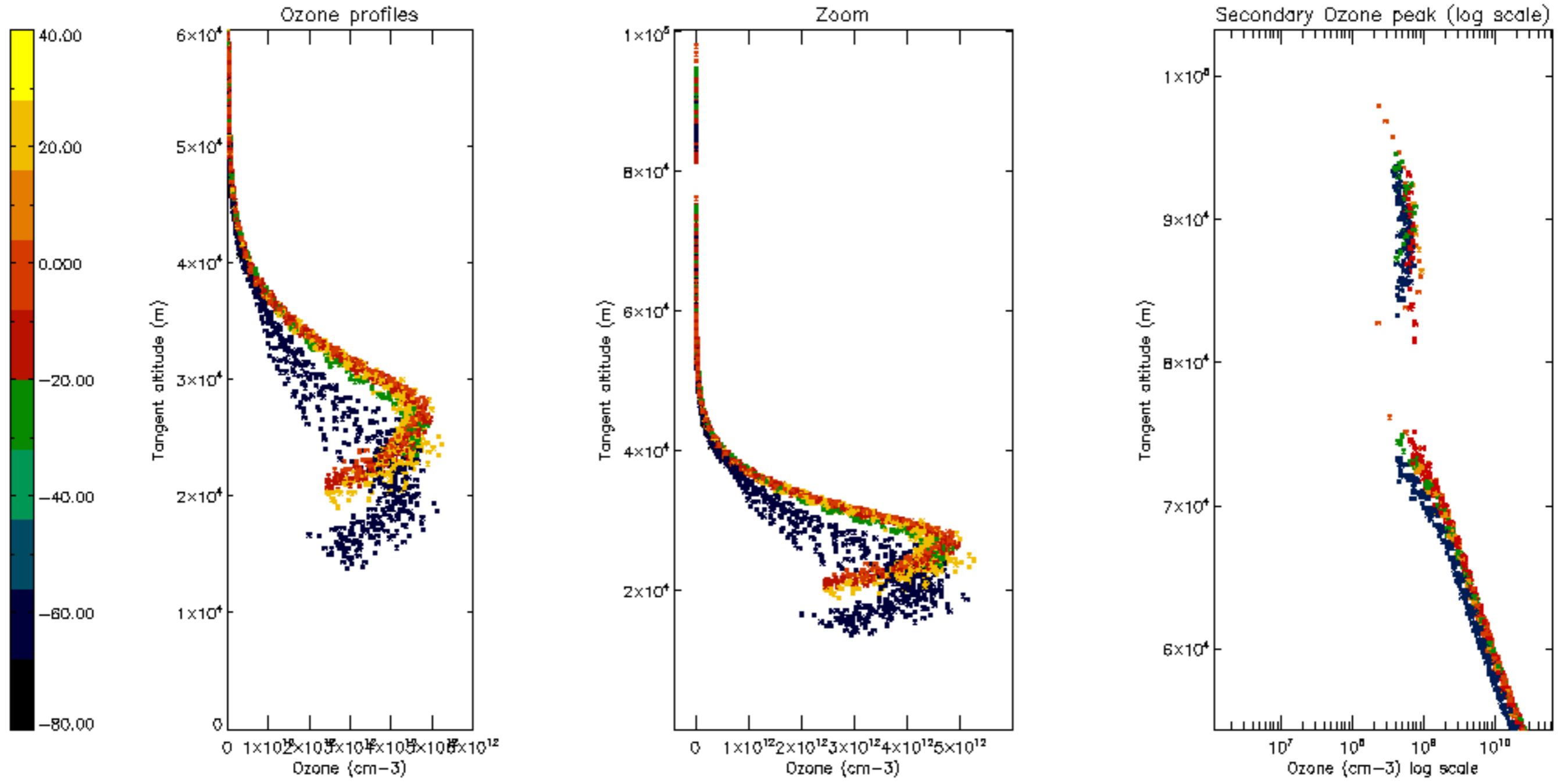
Percentage of saturation errors per profile

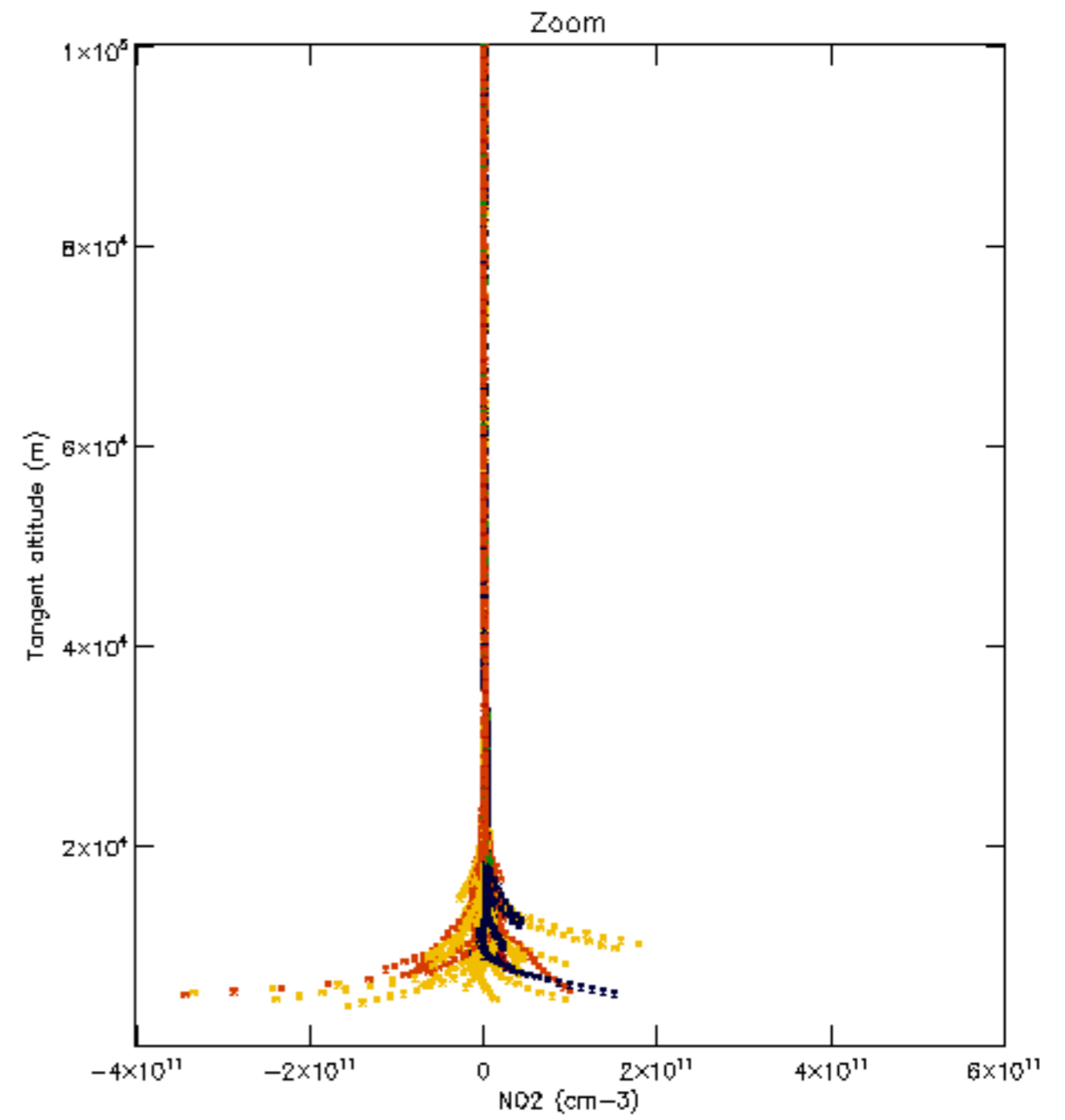
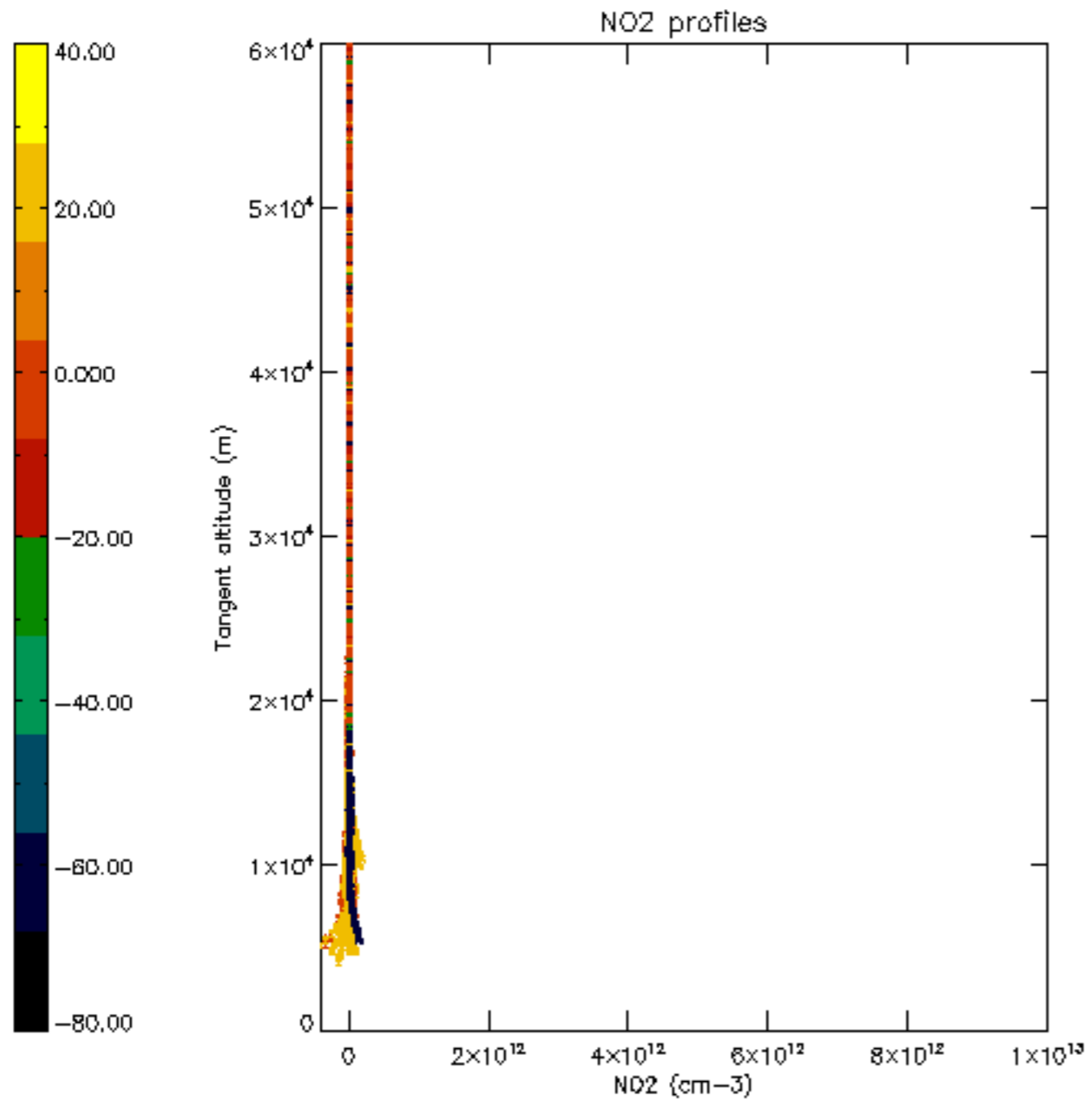


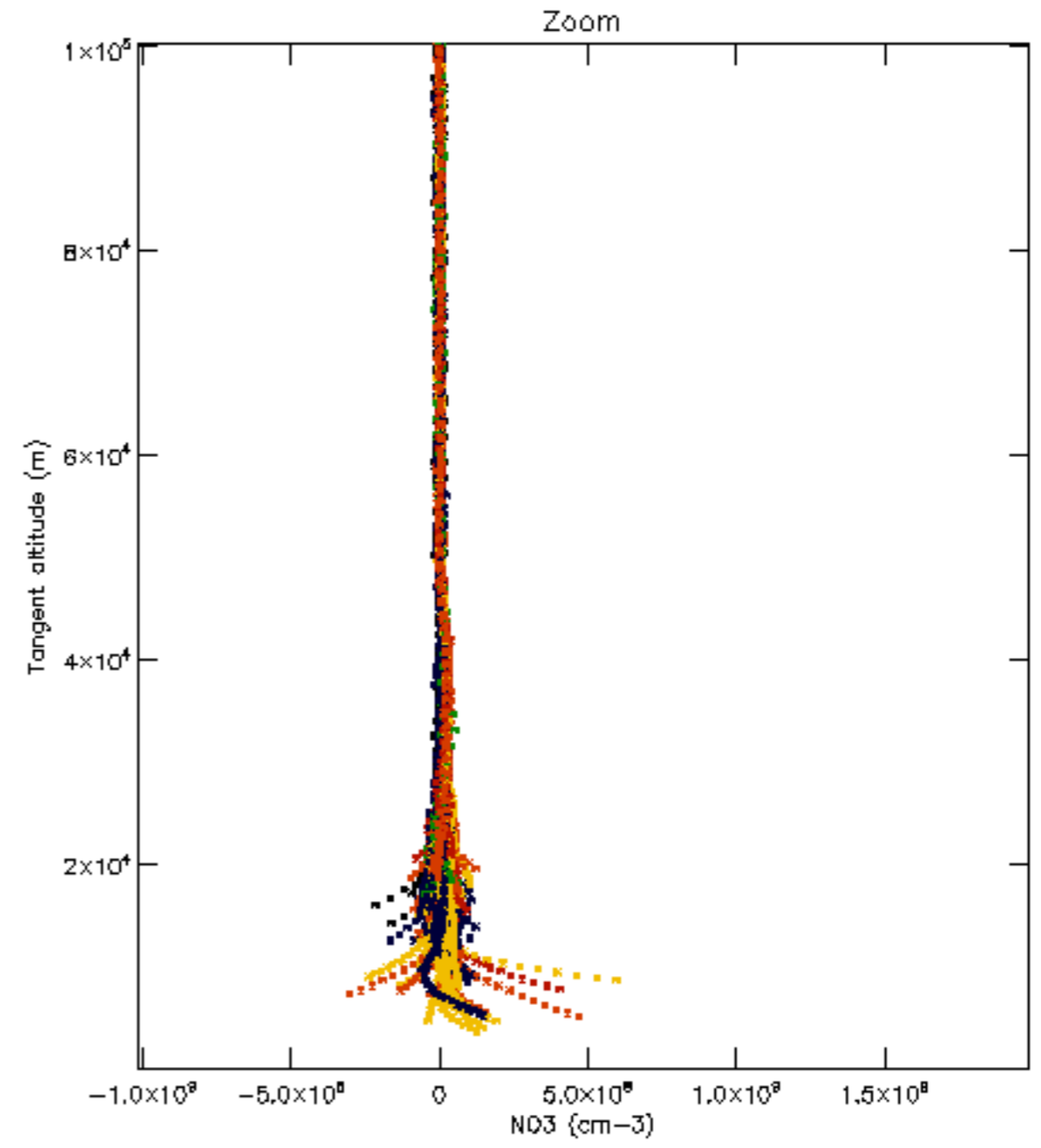
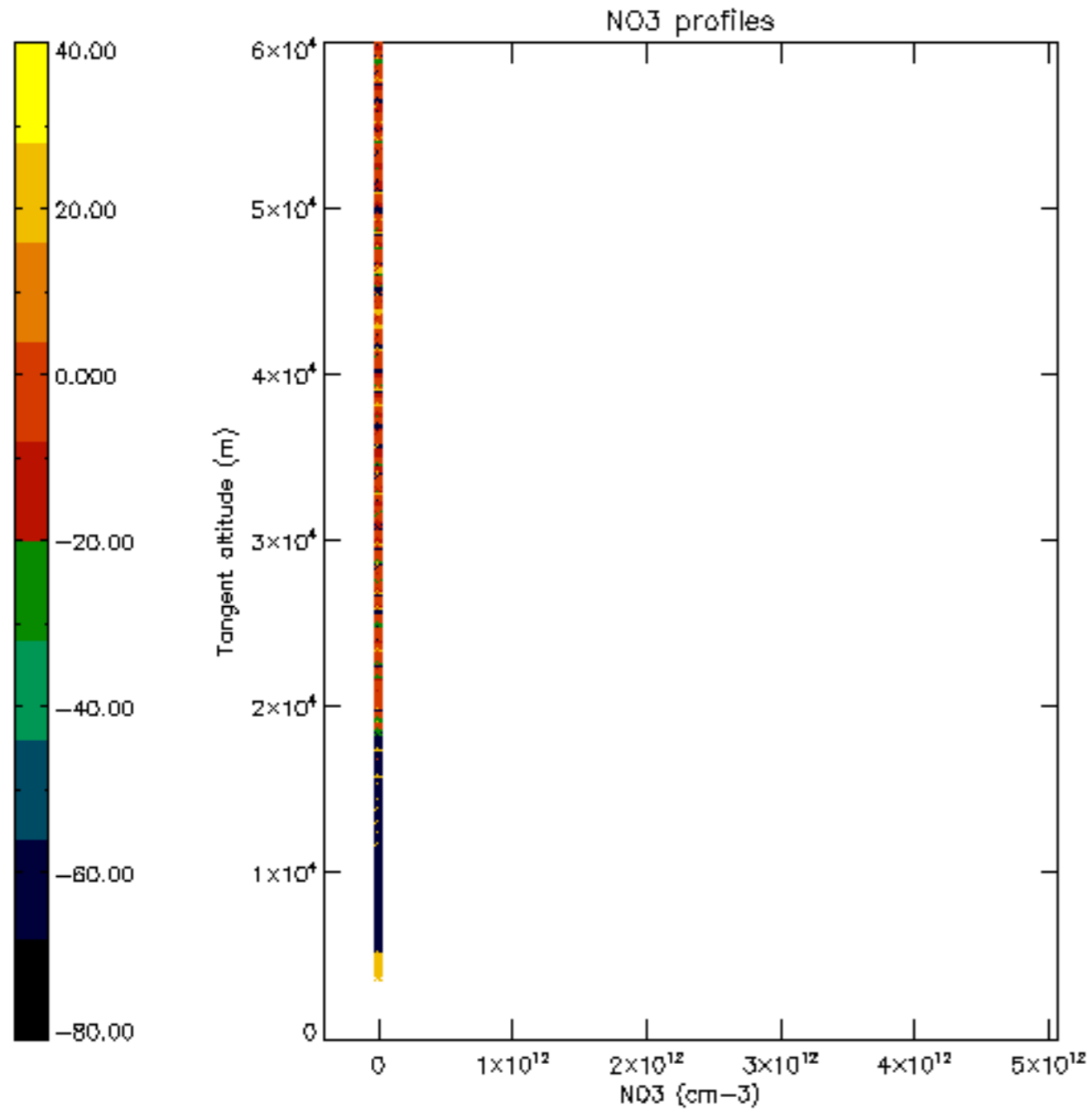


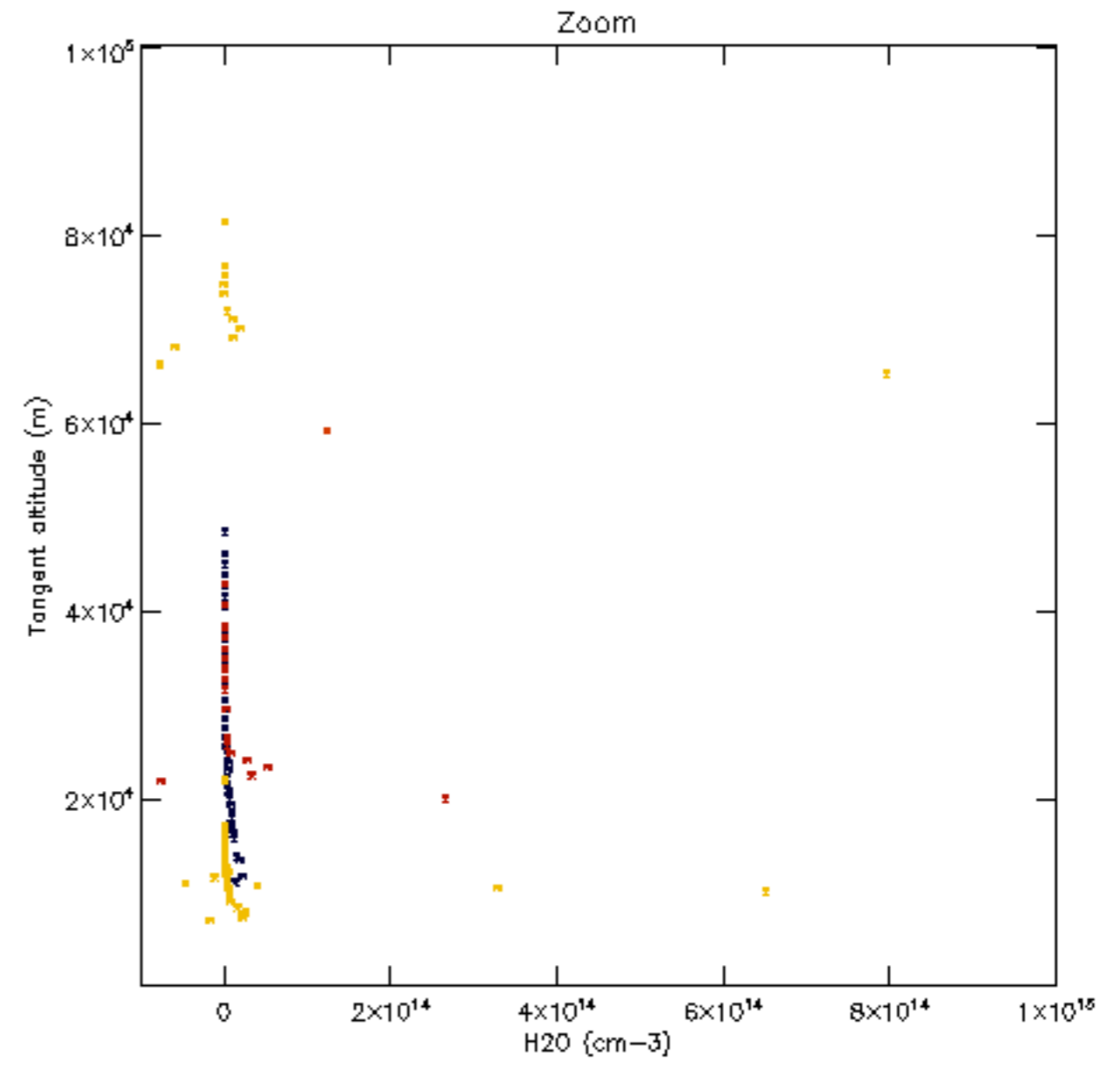
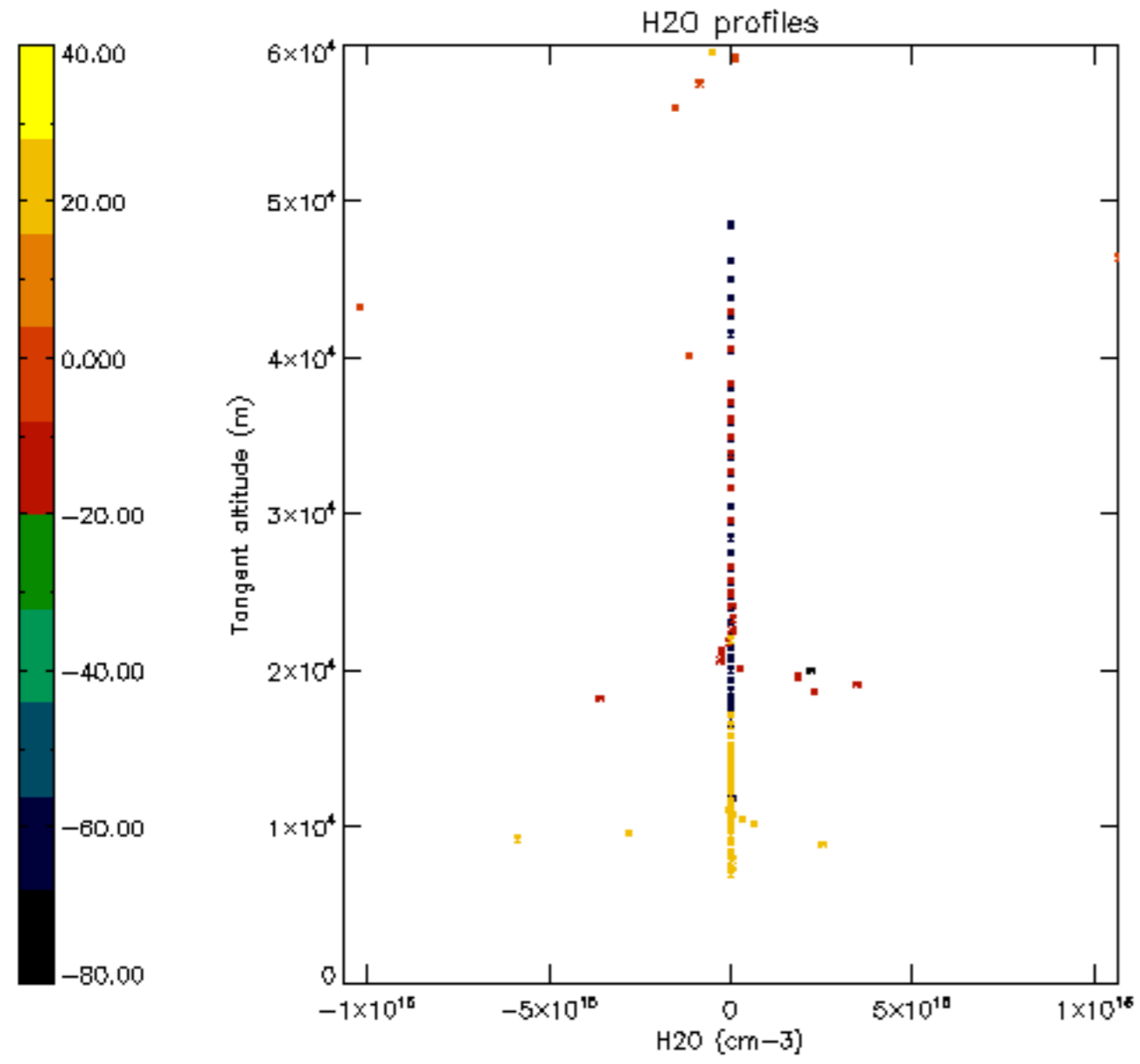


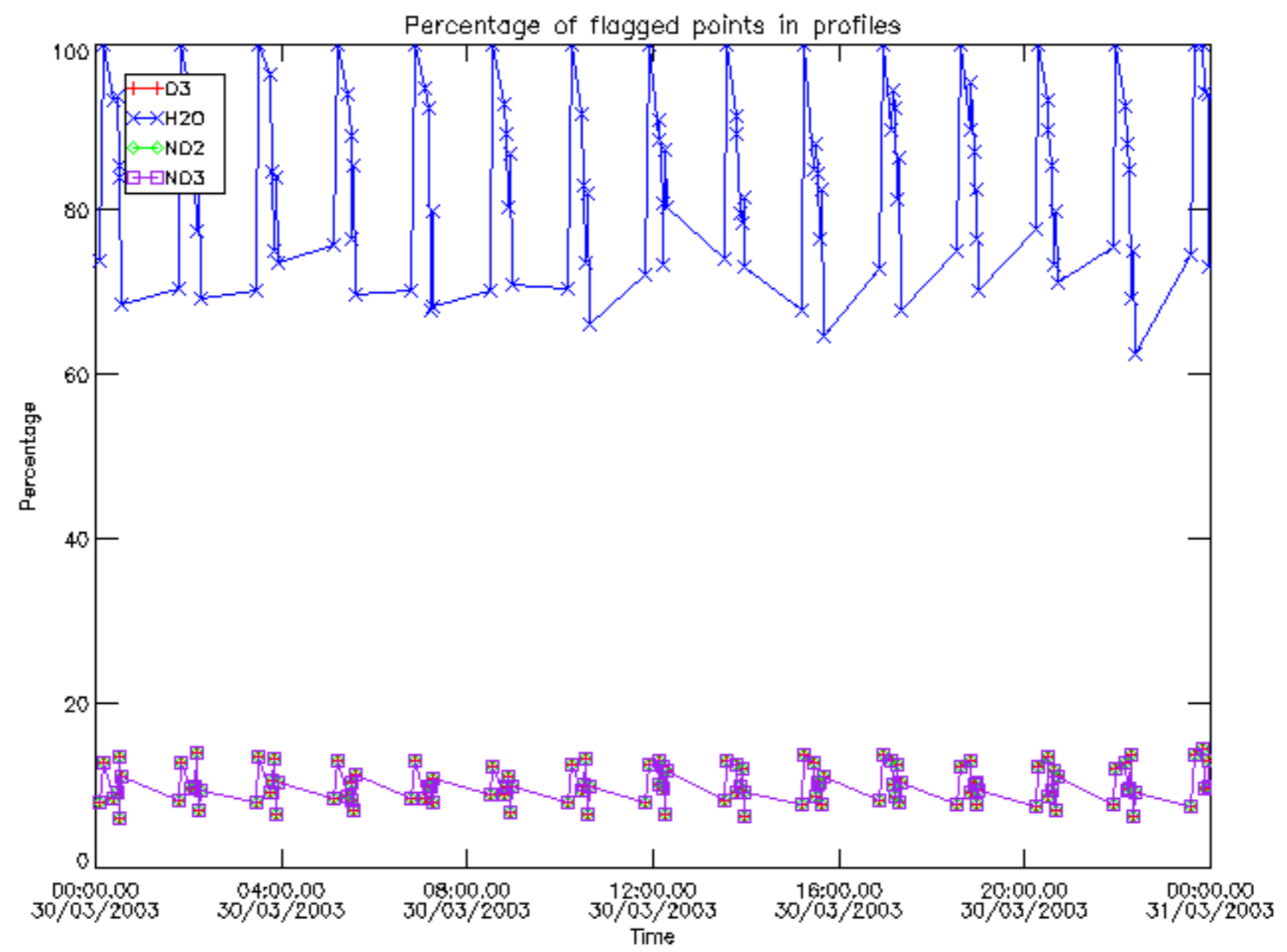




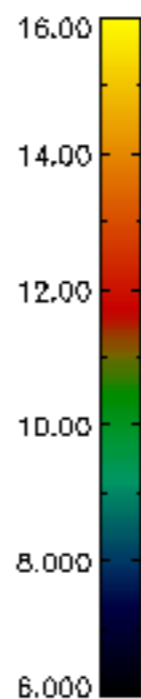
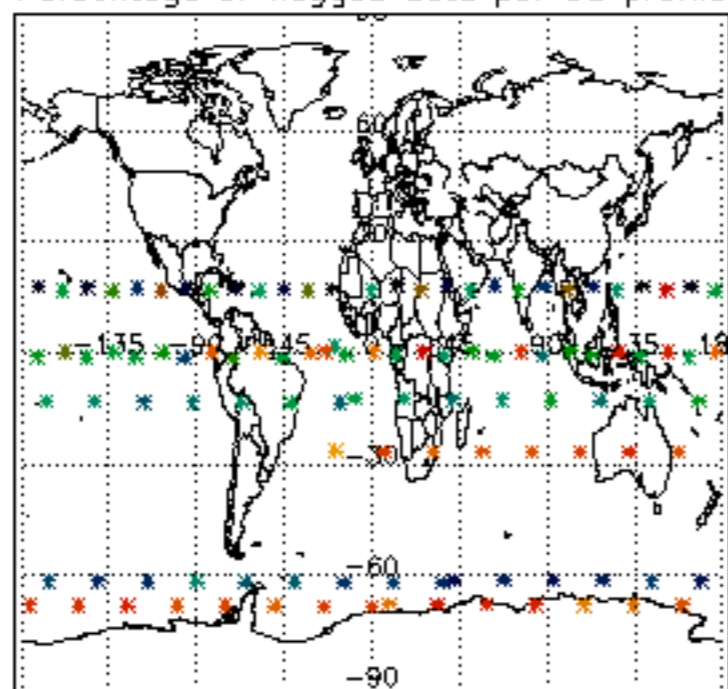




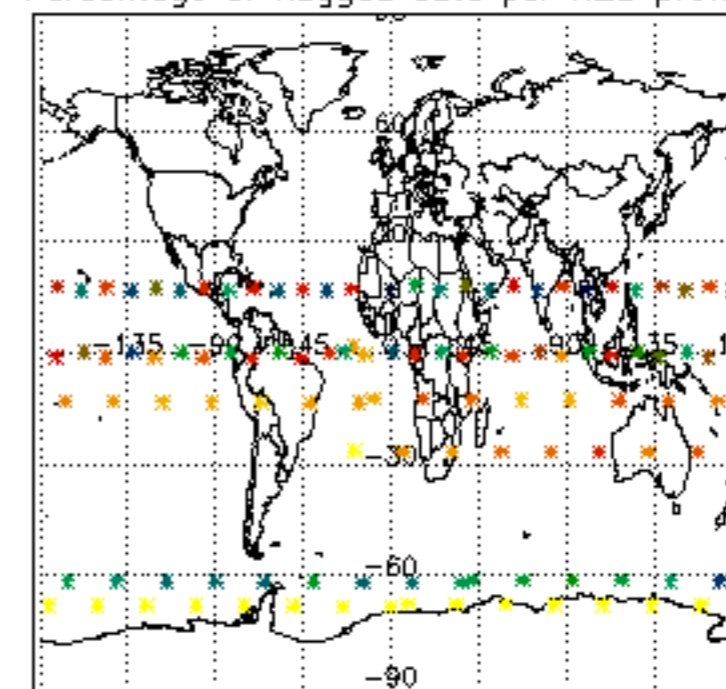




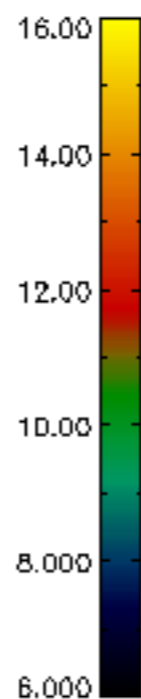
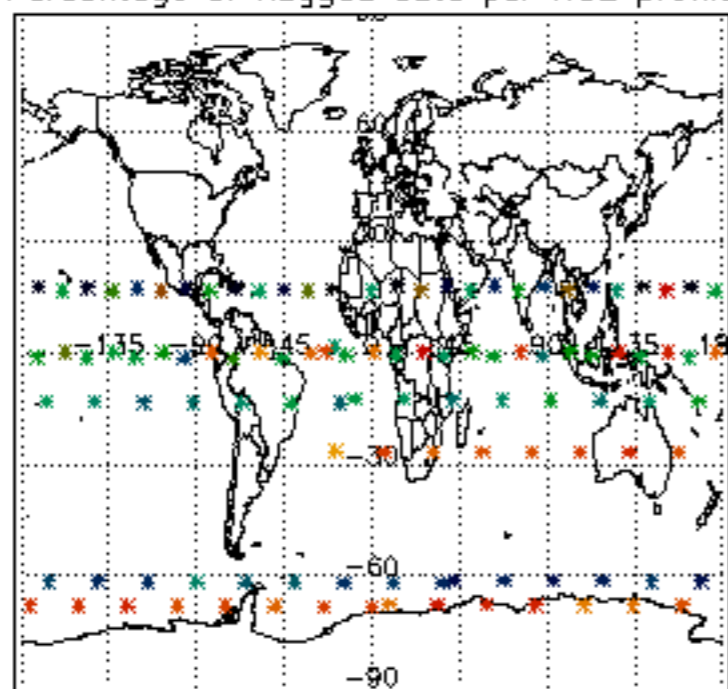
Percentage of flagged data per D3 profile



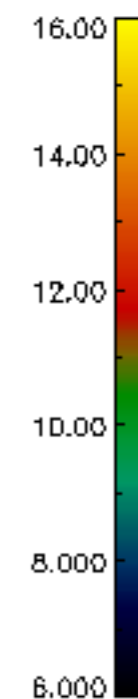
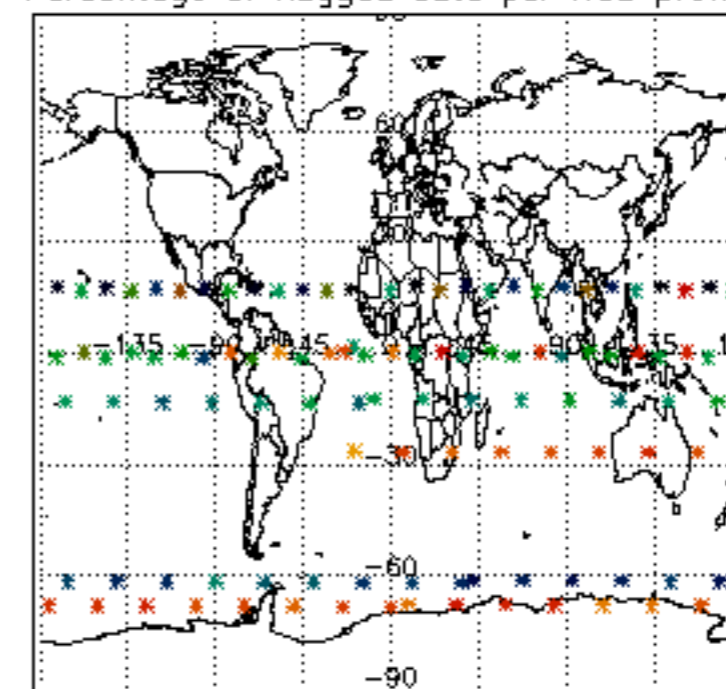
Percentage of flagged data per H2O profile

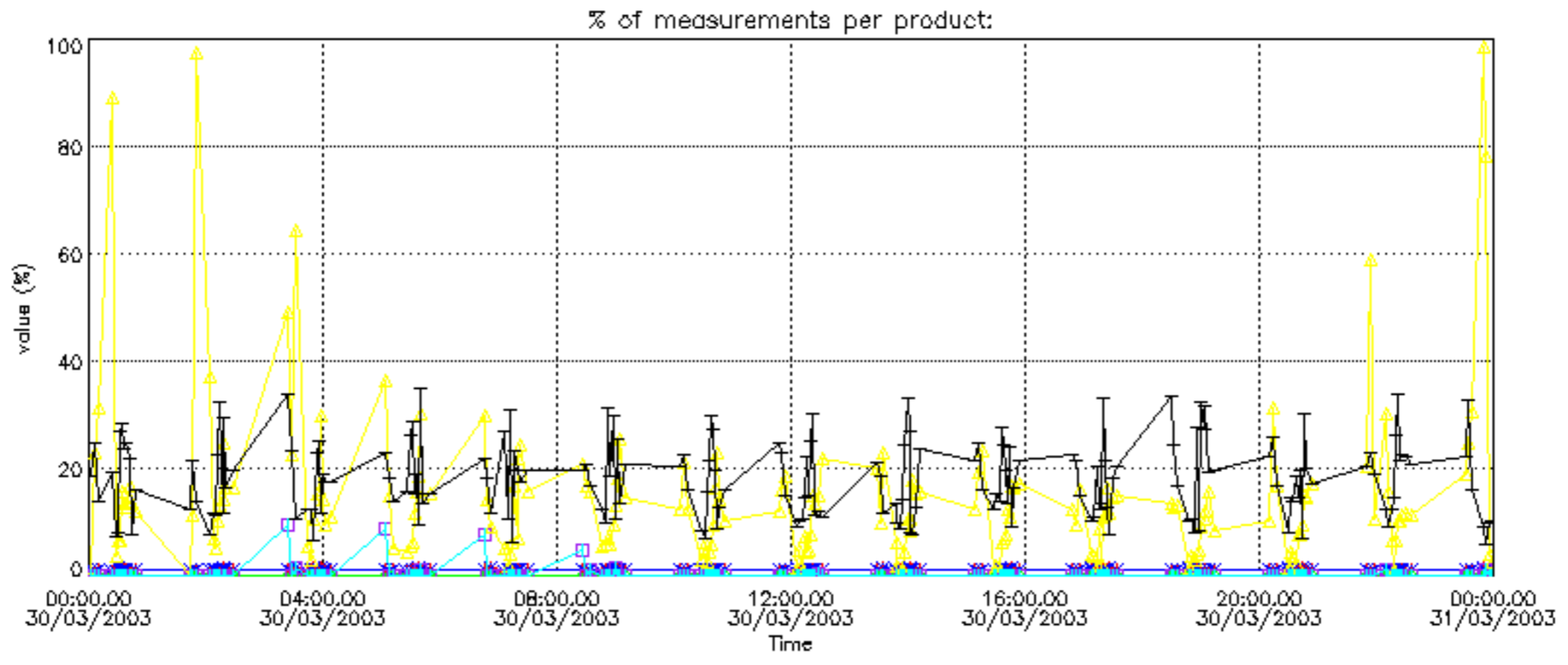


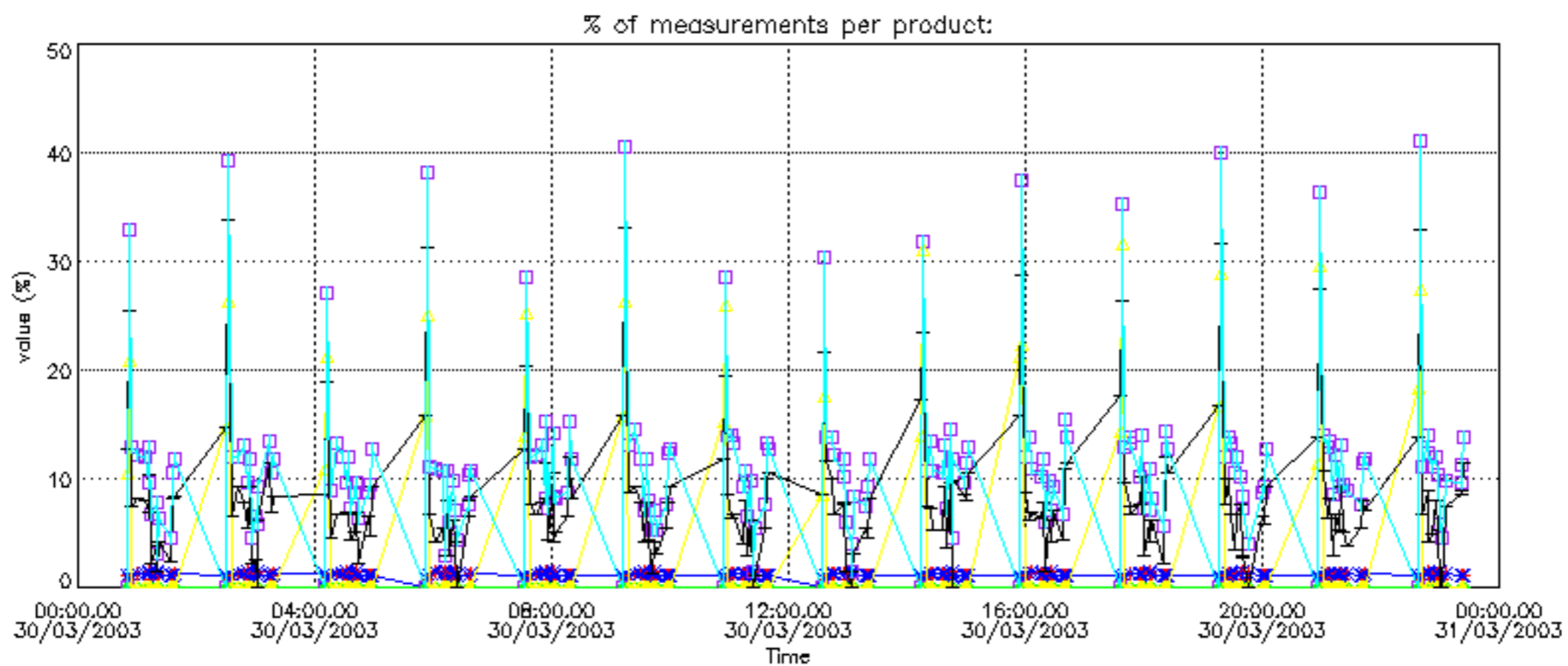
Percentage of flagged data per NO2 profile



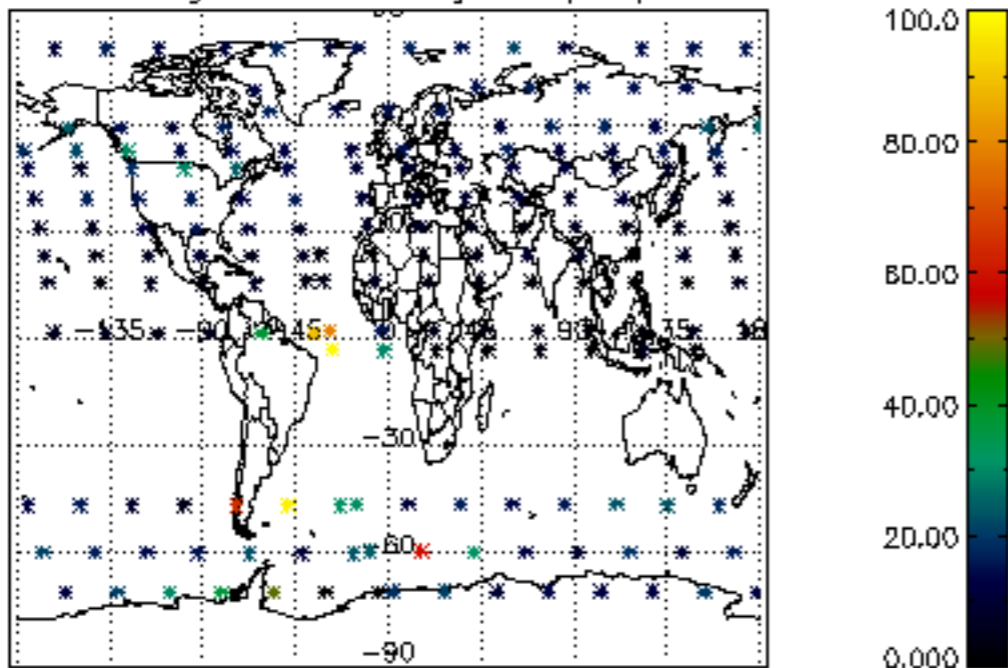
Percentage of flagged data per NO3 profile



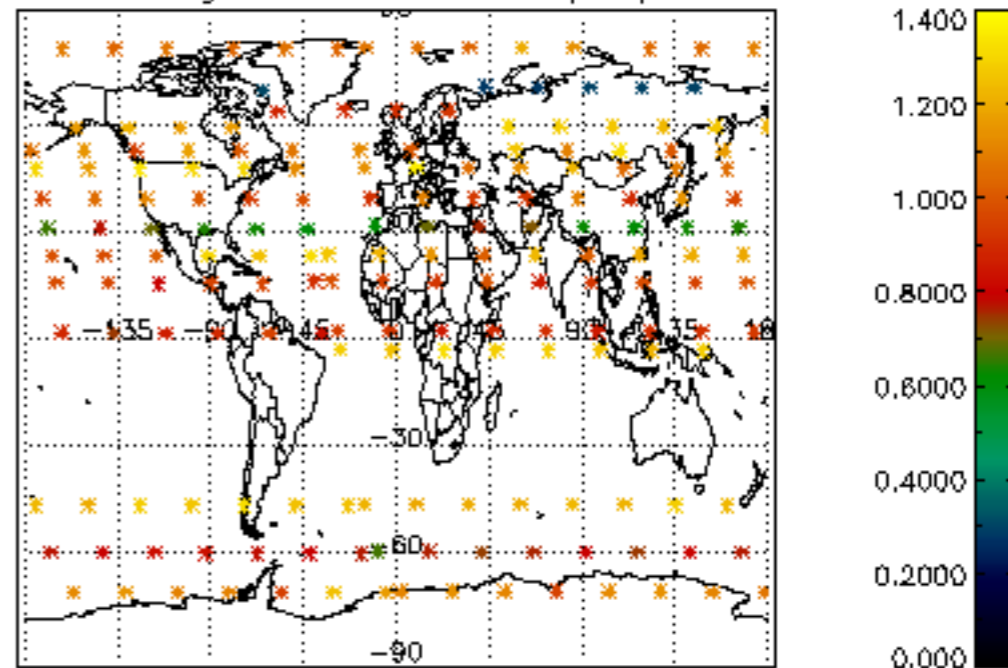




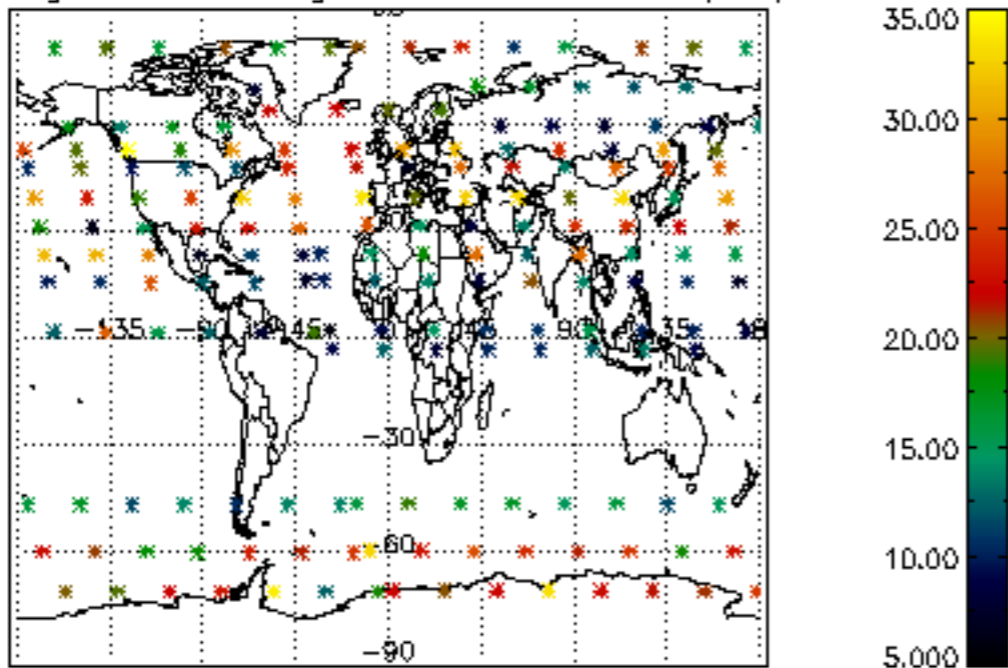
Percentage of cosmic ray hits per profile



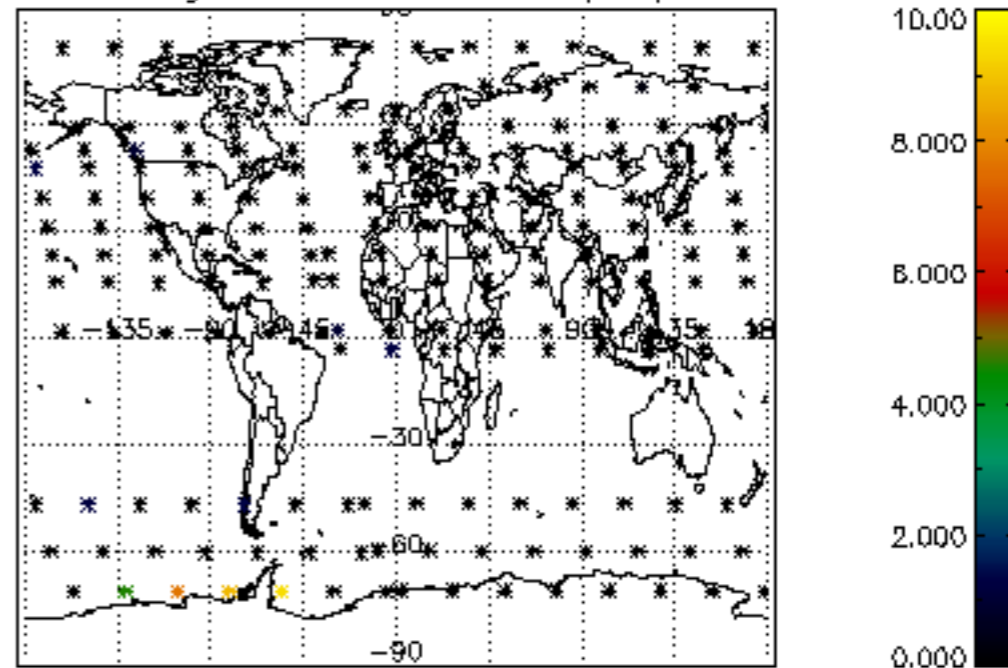
Percentage of datation errors per profile



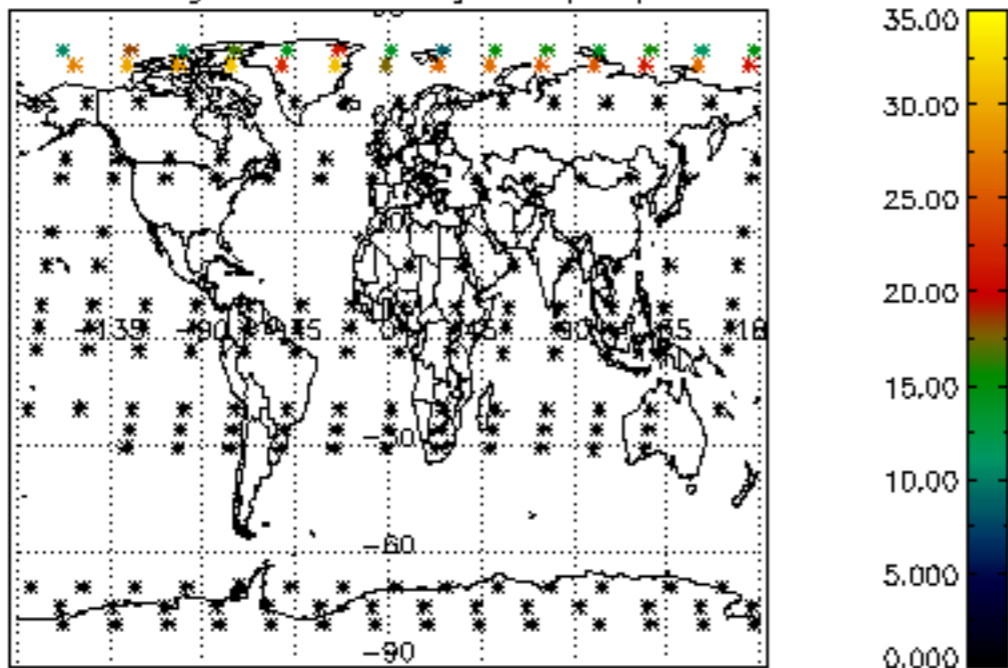
Percentage of star falling outside central band per profile



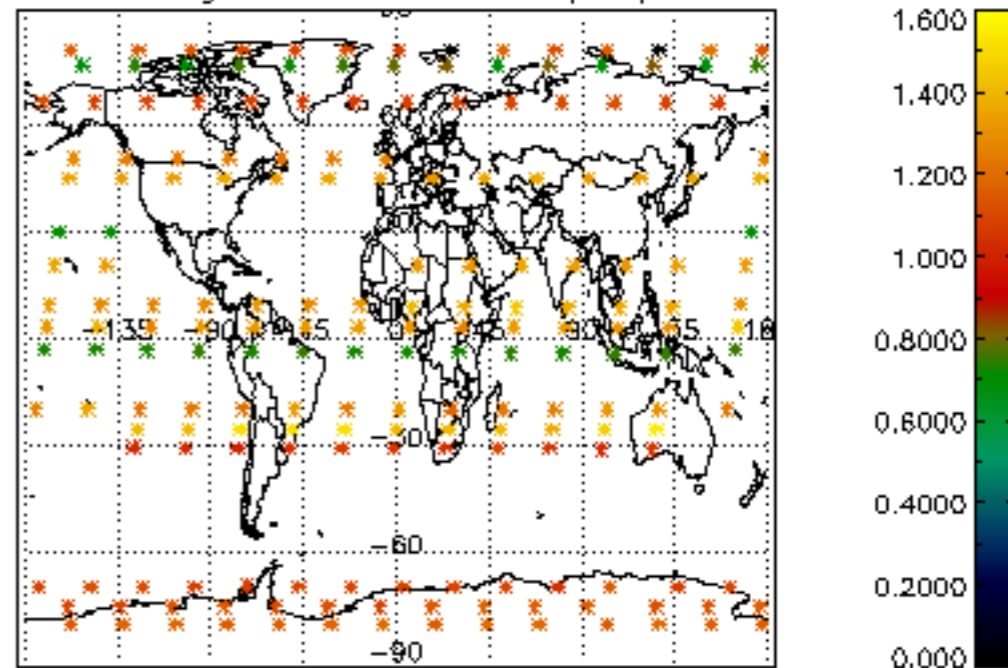
Percentage of saturation errors per profile



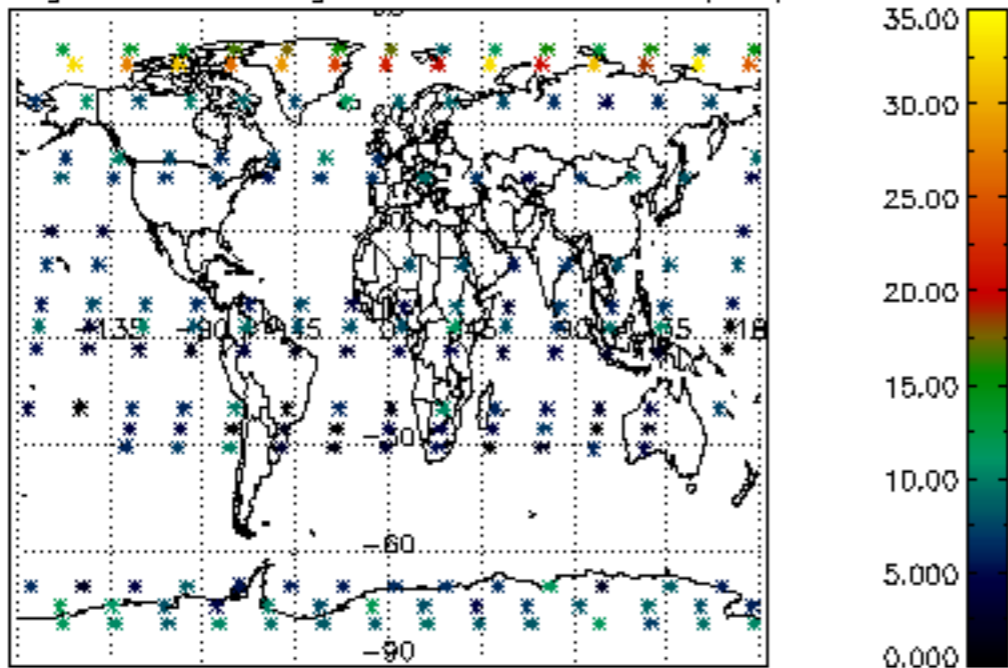
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

