

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	19APR2013 08:13:21
Data source version	GOMOS/6.01
Start time of products	09-08-2004 (09AUG2004 00:00:00)
Stop time of products	10-08-2004 (10AUG2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	408
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

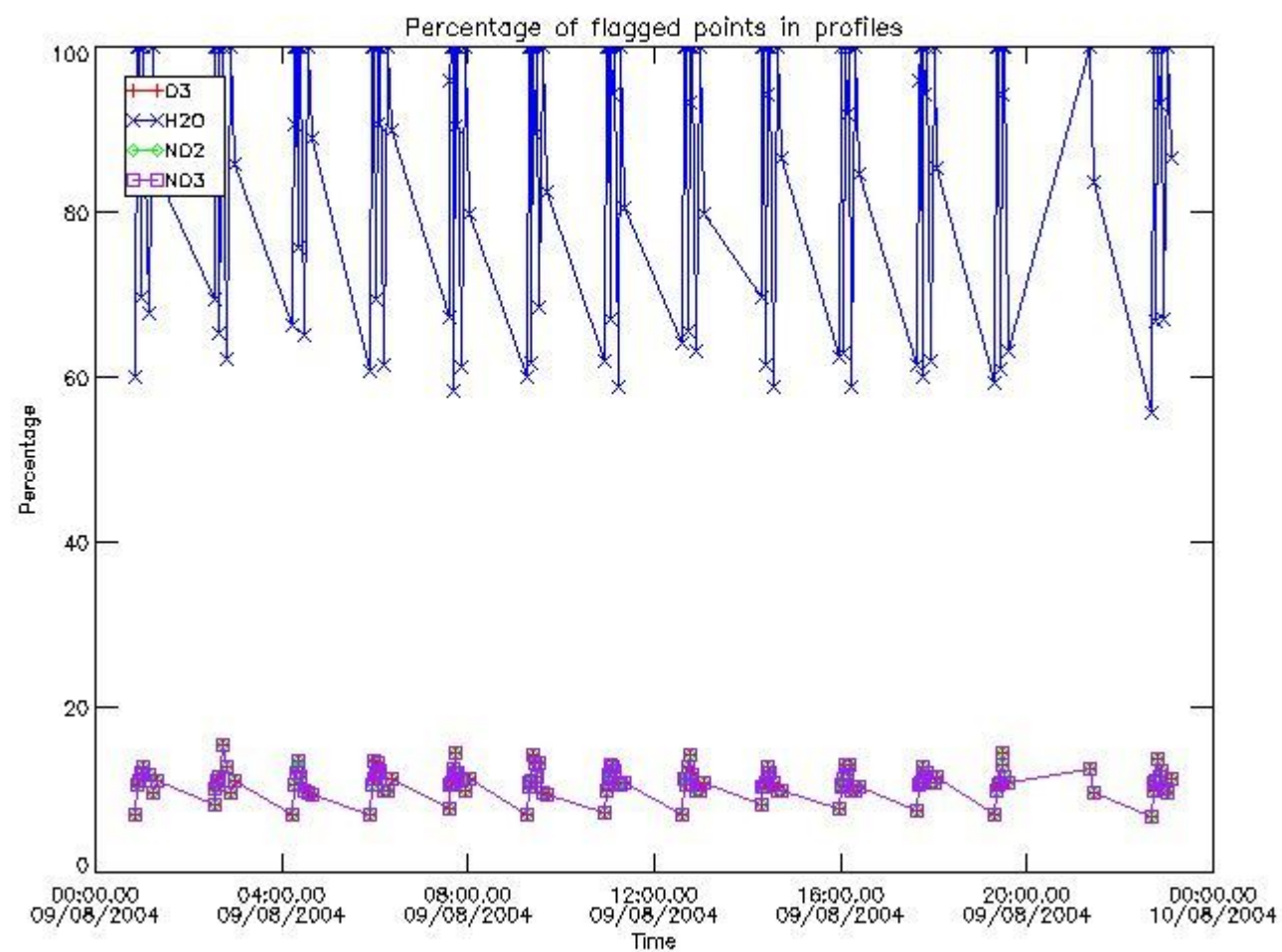
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20040809_000144_000000482029_00188_12767_2364.N1	09-AUG-2004 00:01:44	Bright	48.000	154	22Bet Aqr	2.8990	5700.0	96	12767	No
2	GOM_NL__2PRFIN20040809_000556_000000392029_00188_12767_2365.N1	09-AUG-2004 00:05:56	Bright	38.500	11	53Alp Aql	0.76500	8000.0	77	12767	No
3	GOM_NL__2PRFIN20040809_000734_000000392029_00188_12767_2366.N1	09-AUG-2004 00:07:34	Bright	38.500	168	17Zet Aql	2.9860	11000.	77	12767	No
4	GOM_NL__2PRFIN20040809_001347_000000402029_00188_12767_2367.N1	09-AUG-2004 00:13:47	Bright	39.500	92	53Eps Cyg	2.5000	4500.0	79	12767	No
5	GOM_NL__2PRFIN20040809_001512_000000422029_00188_12767_2368.N1	09-AUG-2004 00:15:12	Bright	41.500	66	37Gam Cyg	2.2080	5900.0	83	12767	No
6	GOM_NL__2PRFIN20040809_001659_000000432029_00188_12767_2369.N1	09-AUG-2004 00:16:59	Bright	42.500	19	50Alp Cyg	1.2460	10500.	85	12767	No
7	GOM_NL__2PRFIN20040809_001841_000000402029_00188_12767_2370.N1	09-AUG-2004 00:18:41	Bright	40.000	69	33Gam Dra	2.2310	3800.0	80	12767	No
8	GOM_NL__2PRFIN20040809_002225_000000412029_00188_12767_2371.N1	09-AUG-2004 00:22:25	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	12767	No
9	GOM_NL__2PRFIN20040809_002659_000000352029_00188_12767_2372.N1	09-AUG-2004 00:26:59	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	12767	No
10	GOM_NL__2PRFIN20040809_002858_000000382029_00188_12767_2373.N1	09-AUG-2004 00:28:58	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	12767	No
11	GOM_NL__2PRFIN20040809_003132_000000522029_00188_12767_2374.N1	09-AUG-2004 00:31:32	Bright	52.000	110	37Del Cas	2.6780	8900.0	104	12767	No
12	GOM_NL__2PRFIN20040809_003709_000000542029_00188_12767_2375.N1	09-AUG-2004 00:37:09	Bright	53.500	160	23Gam Per	2.9300	4700.0	107	12767	No
13	GOM_NL__2PRFIN20040809_004047_000002552029_00188_12767_2376.N1	09-AUG-2004 00:40:47	Twilight	255.00	53	43Bet And	2.0480	3300.0	510	12767	No
14	GOM_NL__2PRFIN20040809_004714_000000512029_00188_12767_2377.N1	09-AUG-2004 00:47:14	Twilight	51.000	28	12Bet Tau	1.6500	15200.	102	12767	No
15	GOM_NL__2PRFIN20040809_004926_000000472029_00188_12767_2378.N1	09-AUG-2004 00:49:26	Twilight	46.500	176	23Zet Tau	3.0200	22000.	93	12767	No
16	GOM_NL__2PRFIN20040809_005220_000000732029_00188_12767_2379.N1	09-AUG-2004 00:52:20	Dark	73.000	13	87Alp Tau	0.86700	3800.0	146	12767	No
17	GOM_NL__2PRFIN20040809_005415_000000492029_00188_12767_2380.N1	09-AUG-2004 00:54:15	Dark	48.500	27	24Gam Ori	1.6360	26000.	97	12767	No
18	GOM_NL__2PRFIN20040809_005611_000000462029_00188_12767_2381.N1	09-AUG-2004 00:56:11	Dark	45.500	30	46Eps Ori	1.6940	30000.	91	12767	No
19	GOM_NL__2PRFIN20040809_005732_000000462029_00188_12767_2382.N1	09-AUG-2004 00:57:32	Dark	46.000	125	44Iot Ori	2.7700	30000.	92	12767	No
20	GOM_NL__2PRFIN20040809_005859_000000472029_00188_12767_2383.N1	09-AUG-2004 00:58:59	Dark	46.500	1	9Alp CMa	-1.4400	11000.	93	12767	No
21	GOM_NL__2PRFIN20040809_010047_000000402029_00188_12767_2384.N1	09-AUG-2004 01:00:47	Dark	40.000	179	24Omi2CMa	3.0320	24000.	80	12767	No
22	GOM_NL__2PRFIN20040809_010215_000000442029_00188_12767_2385.N1	09-AUG-2004 01:02:15	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	12767	No
23	GOM_NL__2PRFIN20040809_010902_000000472029_00188_12767_2386.N1	09-AUG-2004 01:09:02	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	12767	No
24	GOM_NL__2PRFIN20040809_011354_000000532029_00189_12768_2358.N1	09-AUG-2004 01:13:54	Dark	53.000	157	The1Eri	2.9060	9300.0	106	12768	No
25	GOM_NL__2PRFIN20040809_011843_000000462029_00189_12768_2359.N1	09-AUG-2004 01:18:43	Dark	45.500	9	Alp Eri	0.45300	24000.	91	12768	No
26	GOM_NL__2PRFIN20040809_012407_000000672029_00189_12768_2360.N1	09-AUG-2004 01:24:07	Straylight	66.500	84	Alp Phe	2.3970	4500.0	133	12768	No
27	GOM_NL__2PRFIN20040809_012753_000000442029_00189_12768_2361.N1	09-AUG-2004 01:27:53	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	12768	No
28	GOM_NL__2PRFIN20040809_013220_000000642029_00189_12768_2362.N1	09-AUG-2004 01:32:20	Twilight	64.000	18	24Alp PsA	1.1660	9700.0	128	12768	No
29	GOM_NL__2PRFIN20040809_013608_000000412029_00189_12768_2363.N1	09-AUG-2004 01:36:08	Bright	40.500	103	38Zet Sgr	2.6000	9700.0	81	12768	No
30	GOM_NL__2PRFIN20040809_013836_000000502029_00189_12768_2364.N1	09-AUG-2004 01:38:36	Bright	49.500	142	49Del Cap	2.8500	8900.0	99	12768	No
31	GOM_NL__2PRFIN20040809_014220_000000492029_00189_12768_2365.N1	09-AUG-2004 01:42:20	Bright	48.500	154	22Bet Aqr	2.8990	5700.0	97	12768	No
32	GOM_NL__2PRFIN20040809_014632_000000392029_00189_12768_2366.N1	09-AUG-2004 01:46:32	Bright	39.000	11	53Alp Aql	0.76500	8000.0	78	12768	No
33	GOM_NL__2PRFIN20040809_014812_000000392029_00189_12768_2367.N1	09-AUG-2004 01:48:12	Bright	38.500	168	17Zet Aql	2.9860	11000.	77	12768	No
34	GOM_NL__2PRFIN20040809_015423_000000402029_00189_12768_2368.N1	09-AUG-2004 01:54:23	Bright	40.000	92	53Eps Cyg	2.5000	4500.0	80	12768	No
35	GOM_NL__2PRFIN20040809_015548_000000422029_00189_12768_2369.N1	09-AUG-2004 01:55:48	Bright	42.000	66	37Gam Cyg	2.2080	5900.0	84	12768	No
36	GOM_NL__2PRFIN20040809_015734_000000422029_00189_12768_2370.N1	09-AUG-2004 01:57:34	Bright	42.000	19	50Alp Cyg	1.2460	10500.	84	12768	No
37	GOM_NL__2PRFIN20040809_015917_000000402029_00189_12768_2371.N1	09-AUG-2004 01:59:17	Bright	40.000	69	33Gam Dra	2.2310	3800.0	80	12768	No
38	GOM_NL__2PRFIN20040809_020300_000000412029_00189_12768_2372.N1	09-AUG-2004 02:03:00	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	12768	No
39	GOM_NL__2PRFIN20040809_020735_000000402029_00189_12768_2373.N1	09-AUG-2004 02:07:35	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	12768	No
40	GOM_NL__2PRFIN20040809_020933_000000382029_00189_12768_2374.N1	09-AUG-2004 02:09:33	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	12768	No
41	GOM_NL__2PRFIN20040809_021208_000000512029_00189_12768_2375.N1	09-AUG-2004 02:12:08	Bright	51.000	110	37Del Cas	2.6780	8900.0	102	12768	No
42	GOM_NL__2PRFIN20040809_021744_000000552029_00189_12768_2376.N1	09-AUG-2004 02:17:44	Bright	54.500	160	23Gam Per	2.9300	4700.0	109	12768	No

397	GOM_NL__2PRFIN20040809_232624_000000492029_00202_12781_2410.N1	09-AUG-2004 23:26:24	Bright	49.000	142	49Del Cap	2.8500	8900.0	98	12781	No
398	GOM_NL__2PRFIN20040809_233006_000000472029_00202_12781_2411.N1	09-AUG-2004 23:30:06	Bright	46.500	154	22Bet Aqr	2.8990	5700.0	93	12781	No
399	GOM_NL__2PRFIN20040809_233419_000000382029_00202_12781_2412.N1	09-AUG-2004 23:34:19	Bright	38.000	11	53Alp Aql	0.76500	8000.0	76	12781	No
400	GOM_NL__2PRFIN20040809_233559_000000392029_00202_12781_2413.N1	09-AUG-2004 23:35:59	Bright	39.000	168	17Zet Aql	2.9860	11000.	78	12781	No
401	GOM_NL__2PRFIN20040809_234203_000000452029_00202_12781_2414.N1	09-AUG-2004 23:42:03	Bright	45.000	92	53Eps Cyg	2.5000	4500.0	90	12781	No
402	GOM_NL__2PRFIN20040809_234333_000000432029_00202_12781_2415.N1	09-AUG-2004 23:43:33	Bright	42.500	66	37Gam Cyg	2.2080	5900.0	85	12781	No
403	GOM_NL__2PRFIN20040809_234518_000000392029_00202_12781_2416.N1	09-AUG-2004 23:45:18	Bright	38.500	19	50Alp Cyg	1.2460	10500.	77	12781	No
404	GOM_NL__2PRFIN20040809_234707_000000422029_00202_12781_2417.N1	09-AUG-2004 23:47:07	Bright	42.000	69	33Gam Dra	2.2310	3800.0	84	12781	No
405	GOM_NL__2PRFIN20040809_235043_000000412029_00202_12781_2418.N1	09-AUG-2004 23:50:43	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	12781	No
406	GOM_NL__2PRFIN20040809_235525_000000372029_00202_12781_2419.N1	09-AUG-2004 23:55:25	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	12781	No
407	GOM_NL__2PRFIN20040809_235720_000000392029_00202_12781_2420.N1	09-AUG-2004 23:57:20	Bright	39.000	49	1Alp UMi	1.9900	6300.0	78	12781	No
408	GOM_NL__2PRFIN20040809_235945_000000522029_00202_12781_2421.N1	09-AUG-2004 23:59:45	Bright	51.500	110	37Del Cas	2.6780	8900.0	103	12781	No

3. Quality information per product

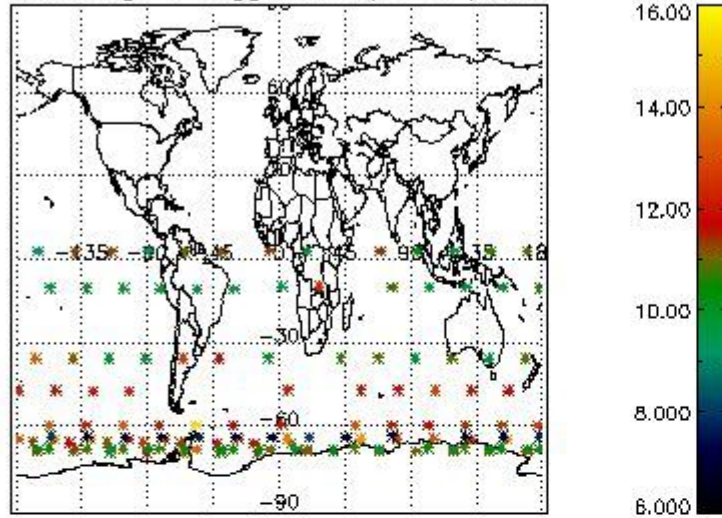
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

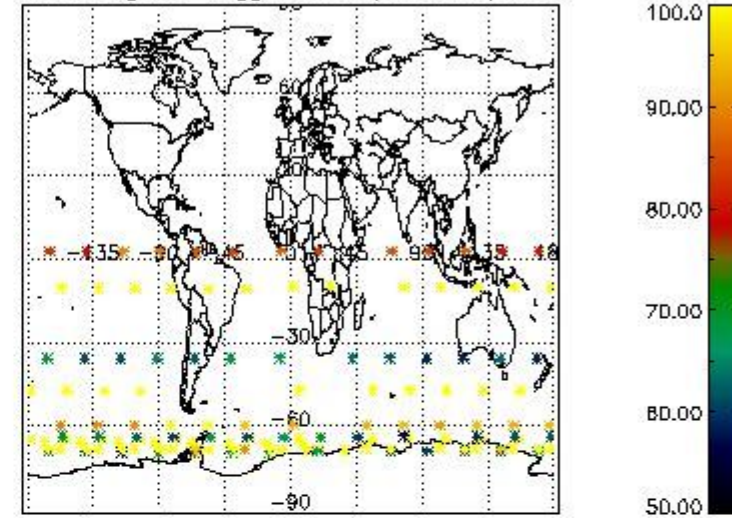


3.2 Plot quality information per product (world map)

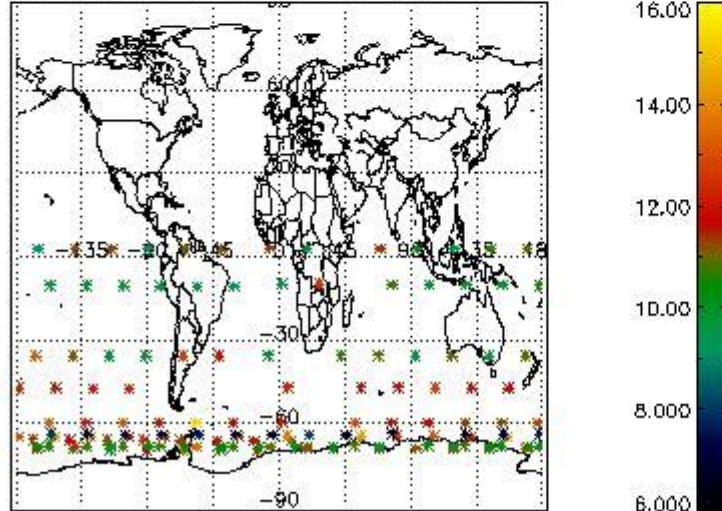
Percentage of flagged data per O3 profile



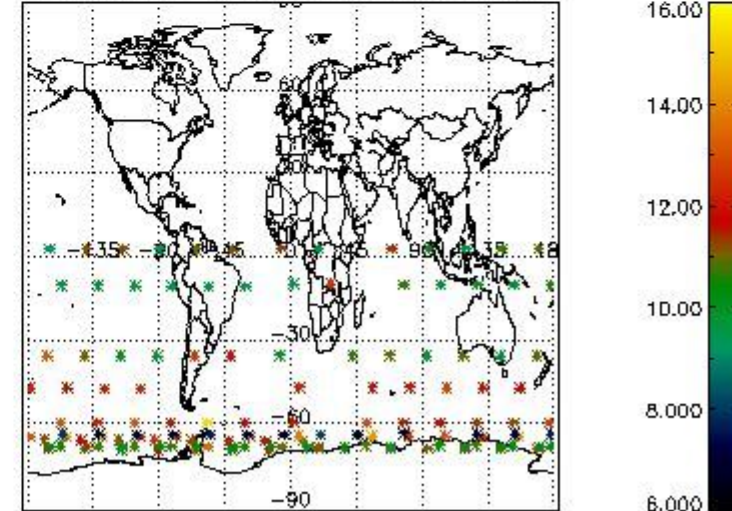
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

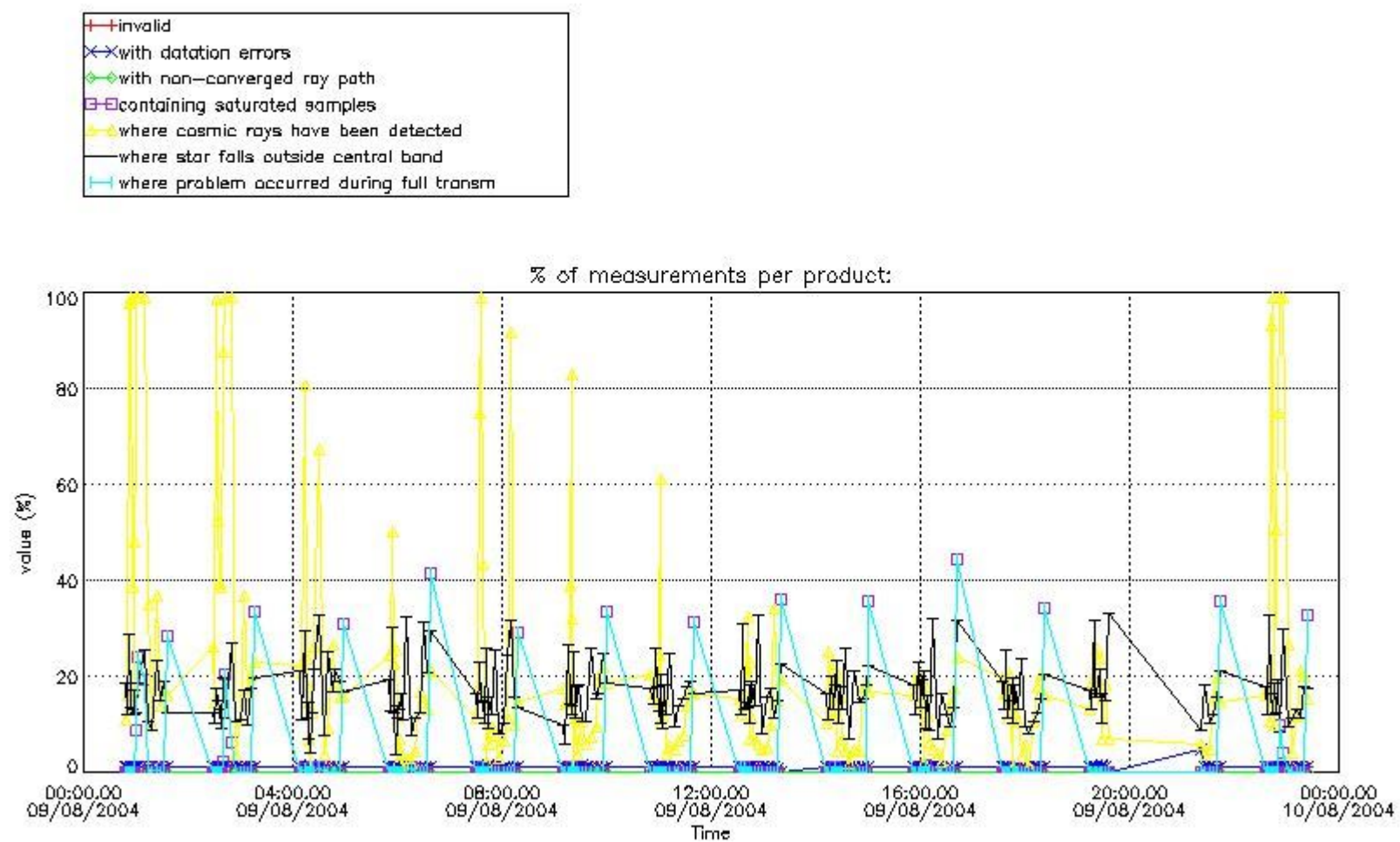


4. Level 1 quality information per product

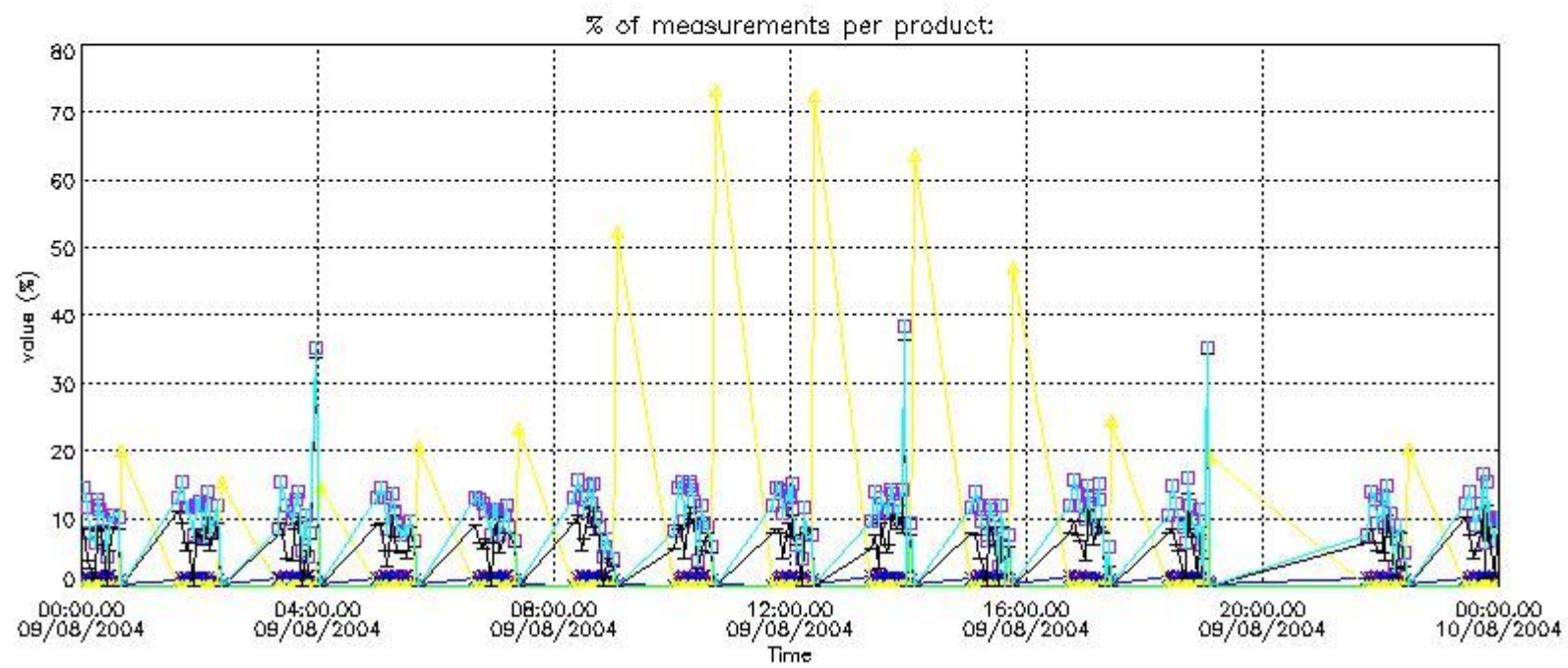
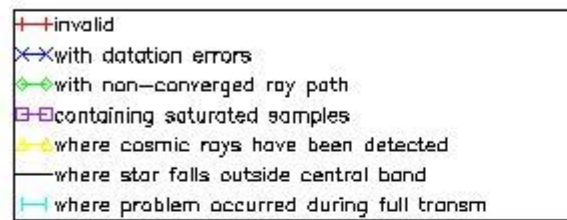
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

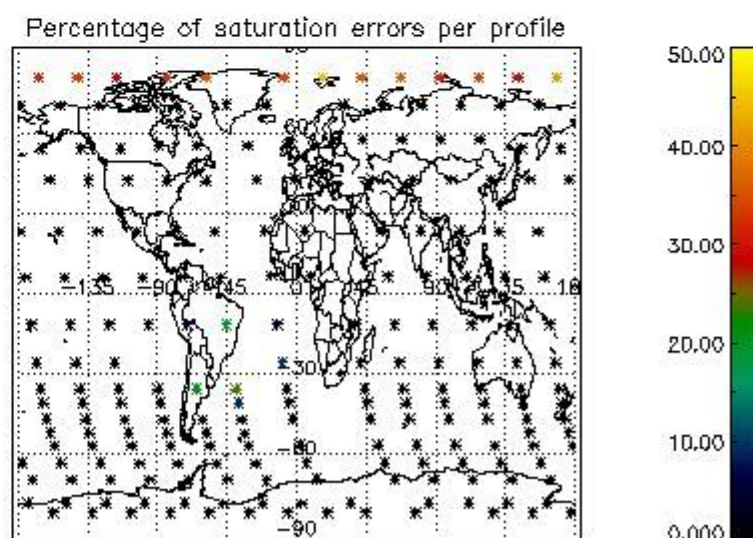
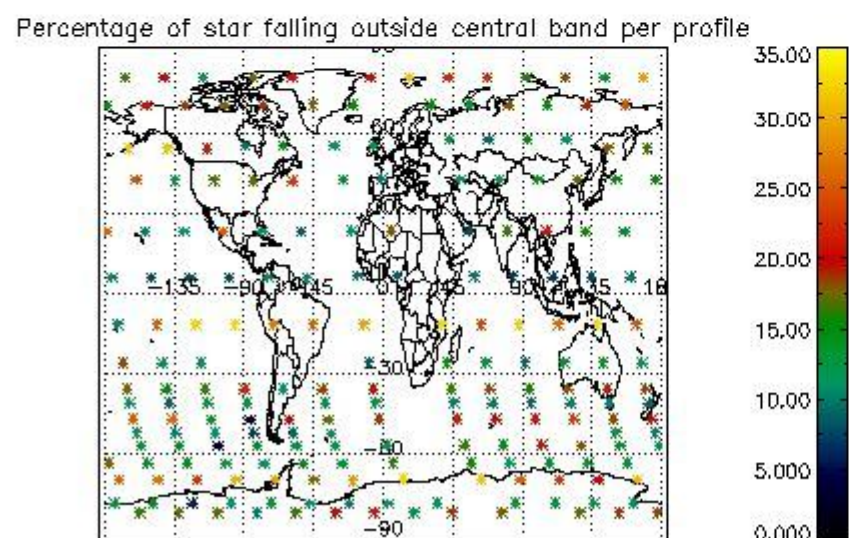
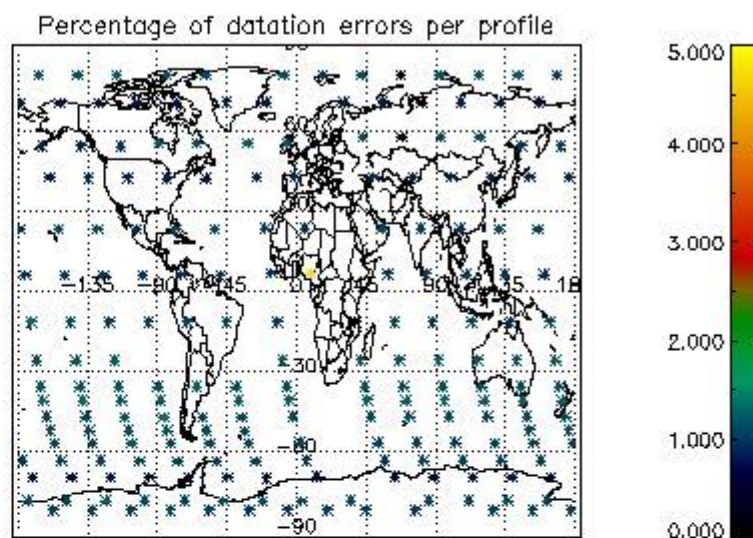
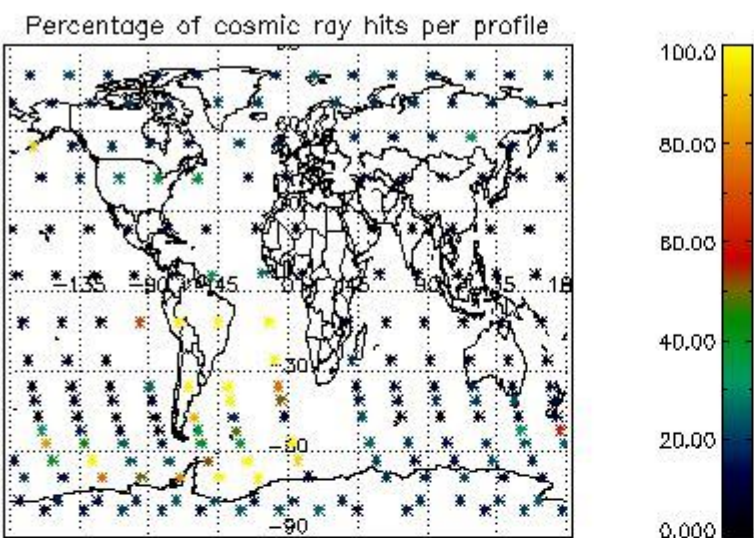


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



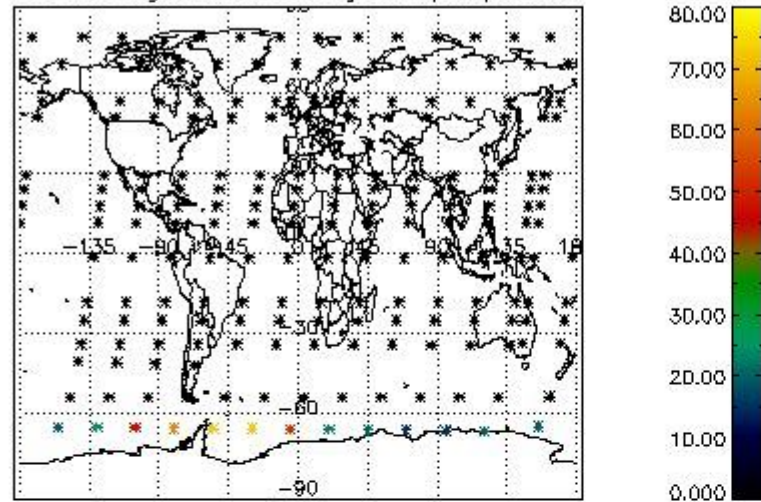
4.2 Plot quality information per product coming from level 1b processing (world map)

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

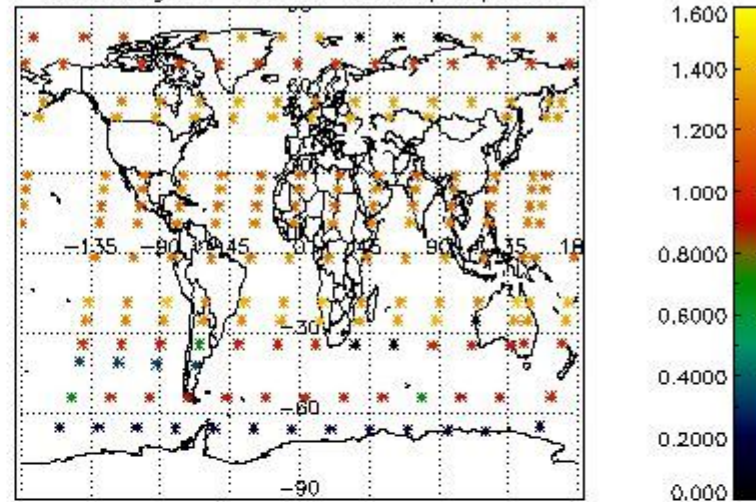


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

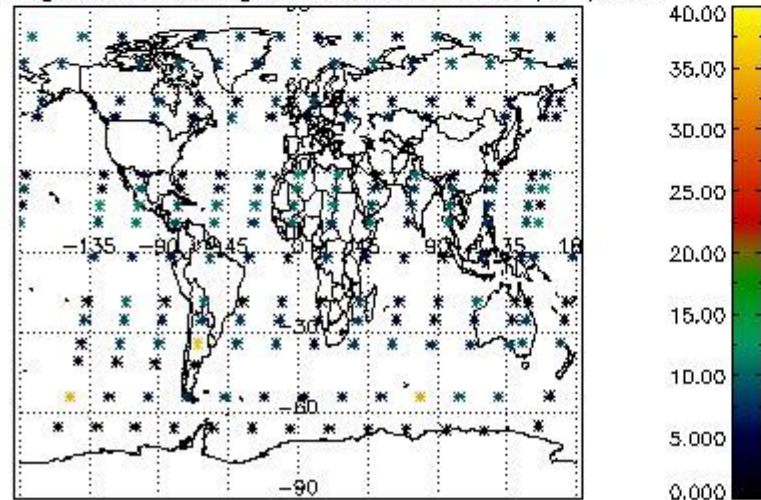
Percentage of cosmic ray hits per profile



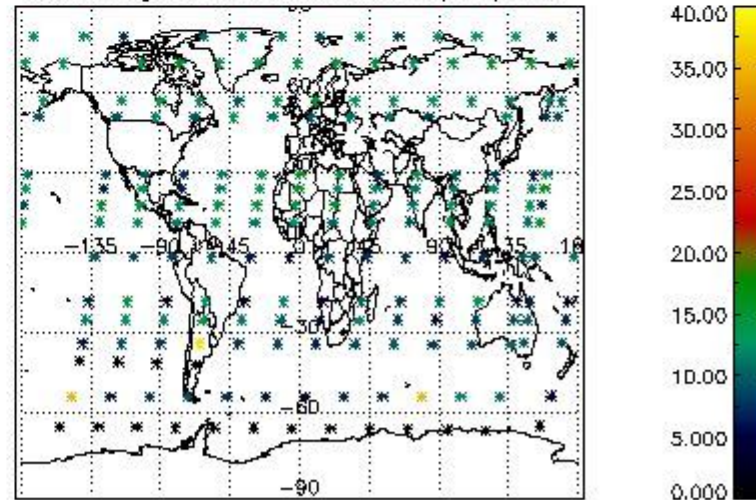
Percentage of datation errors per profile



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

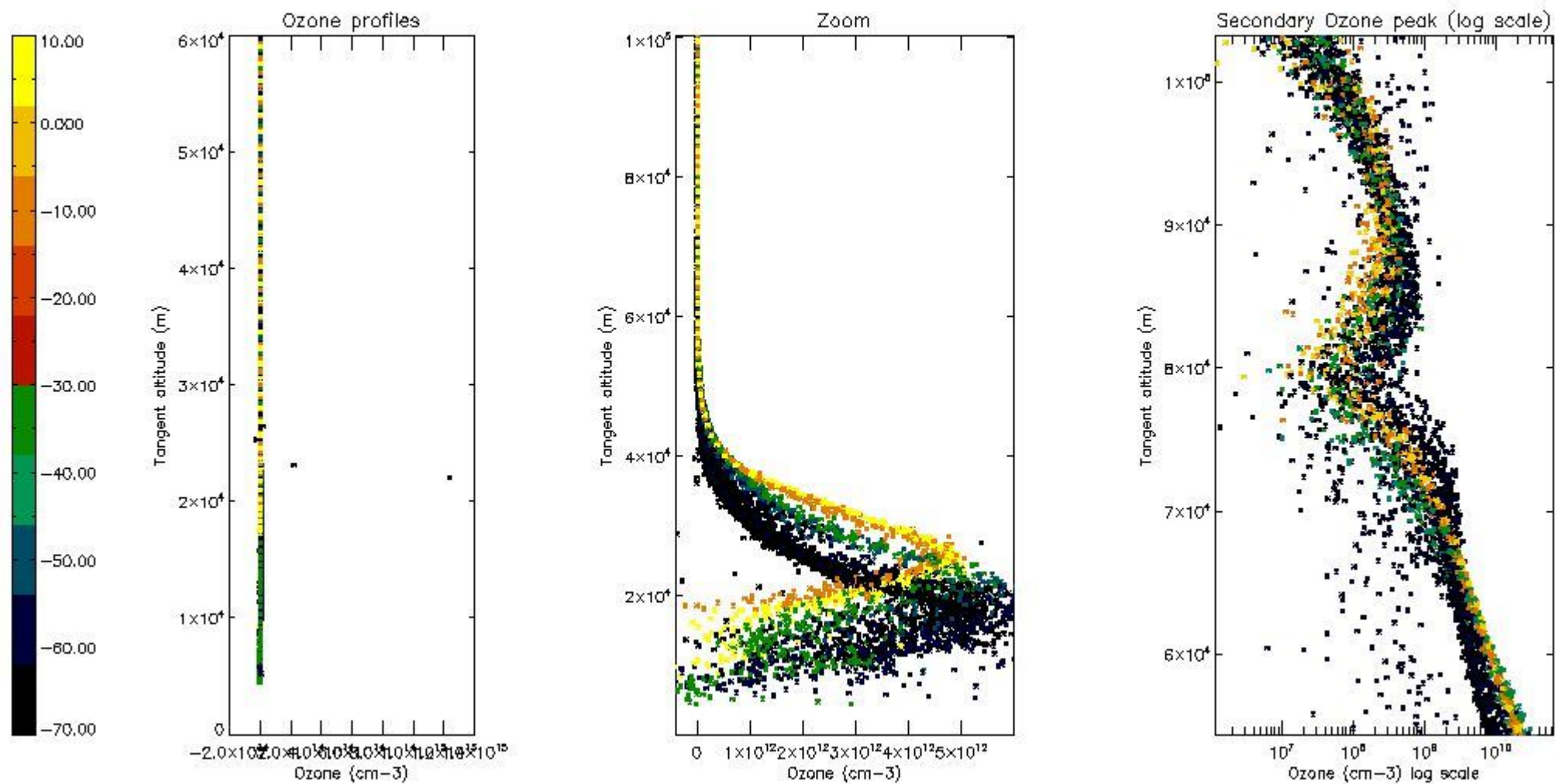
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	30
STD < 20	19

STD < 10	17
STD < 5	13

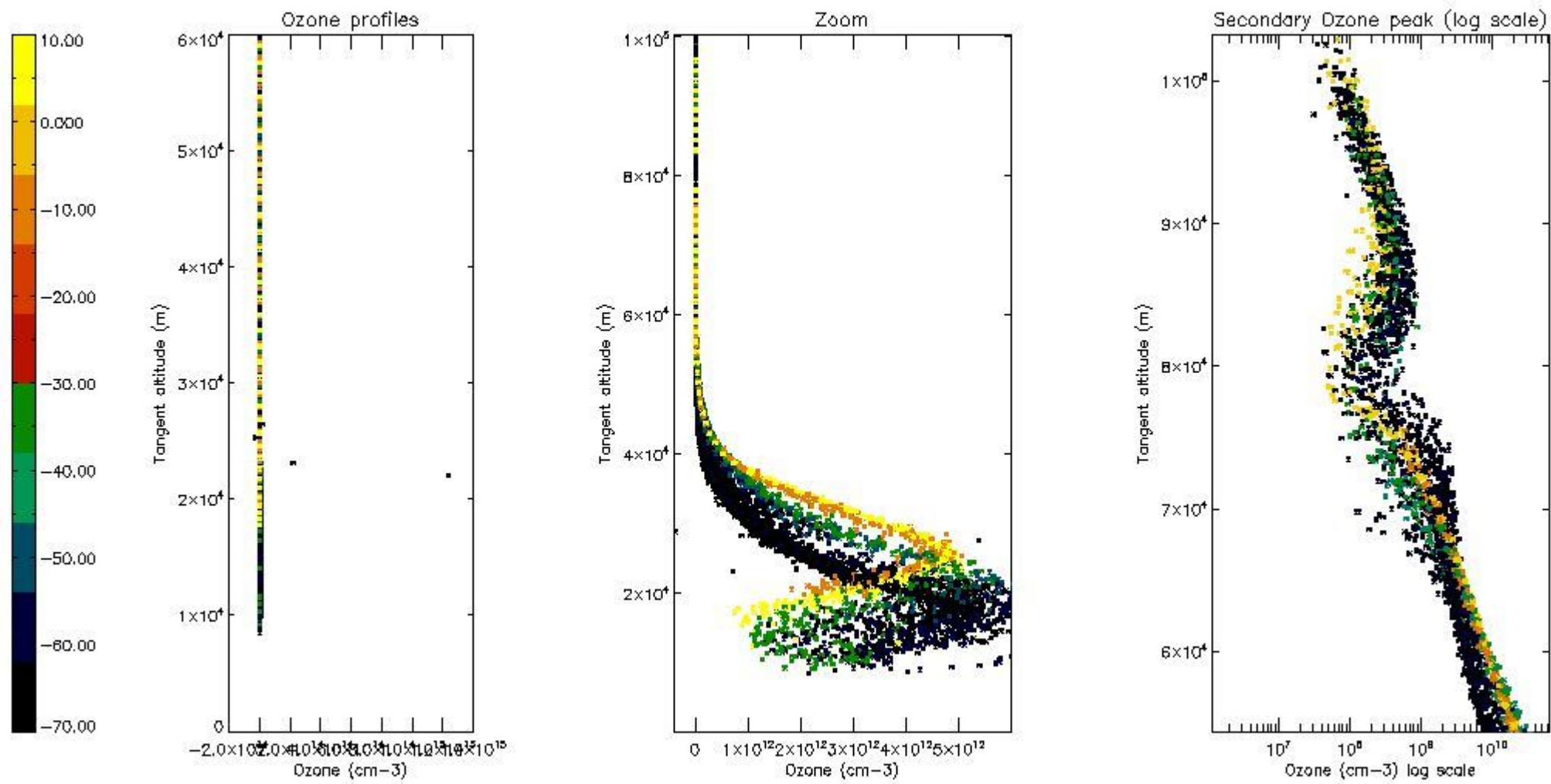
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



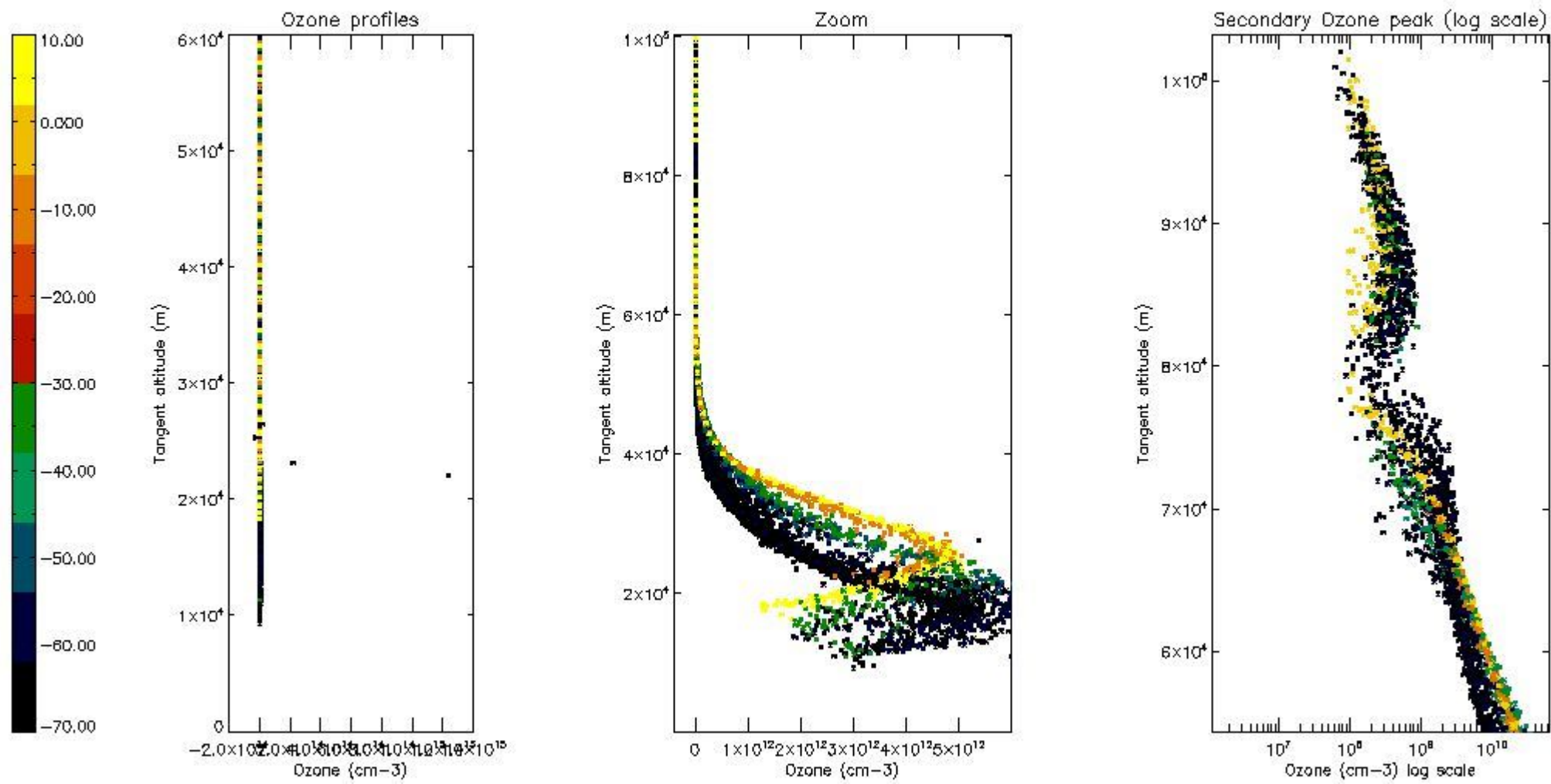
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



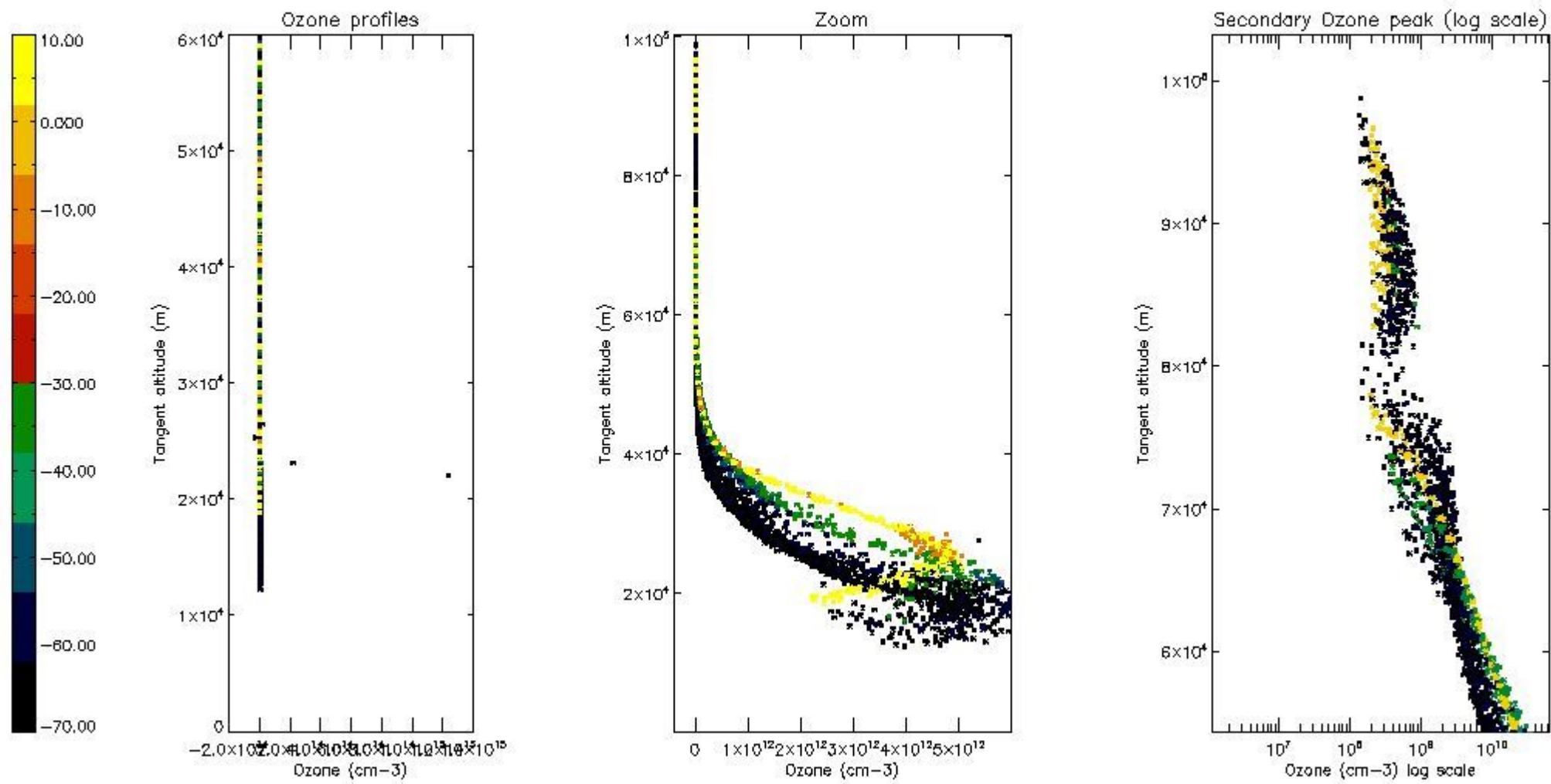
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



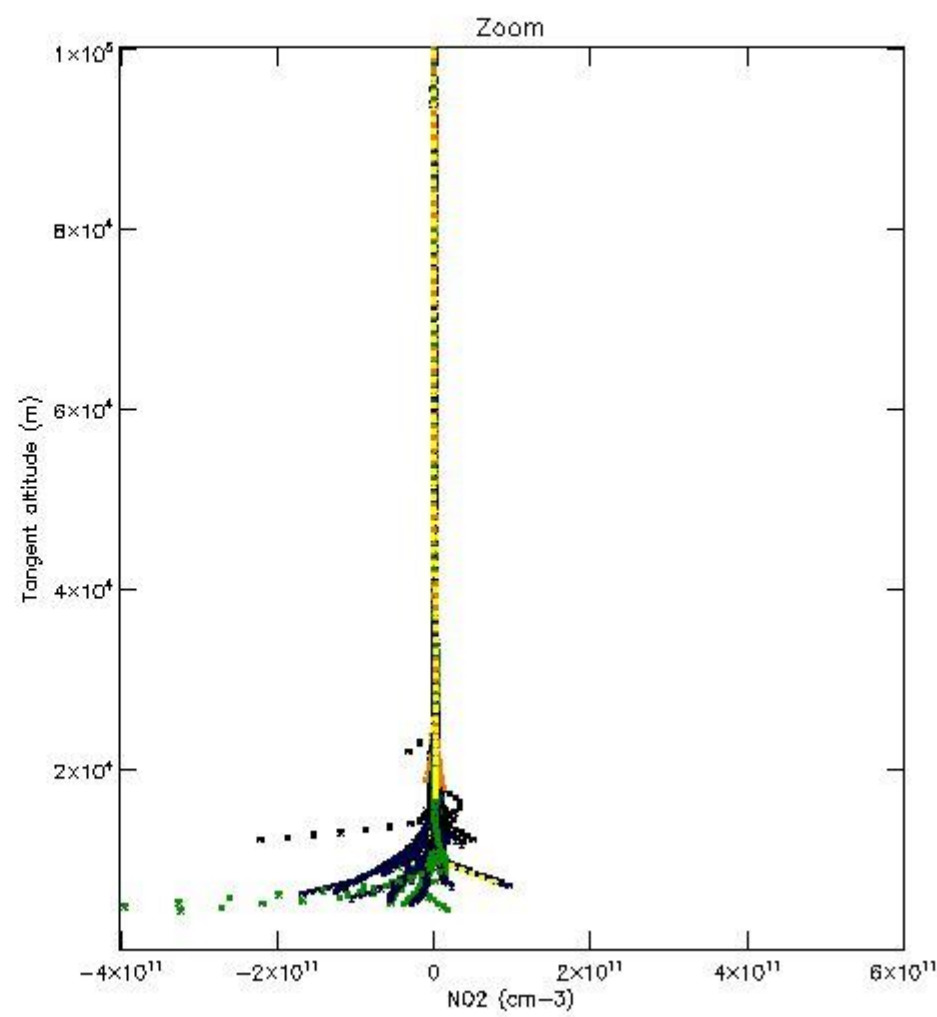
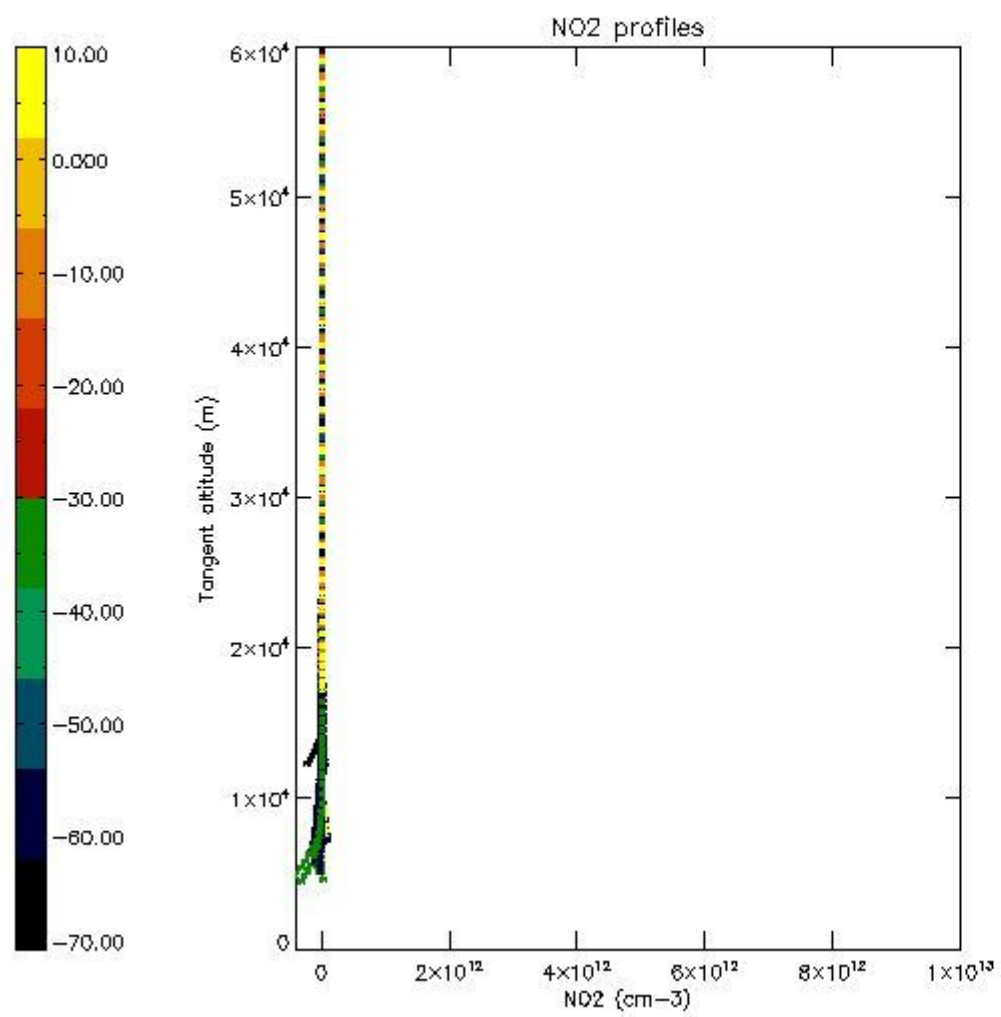
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



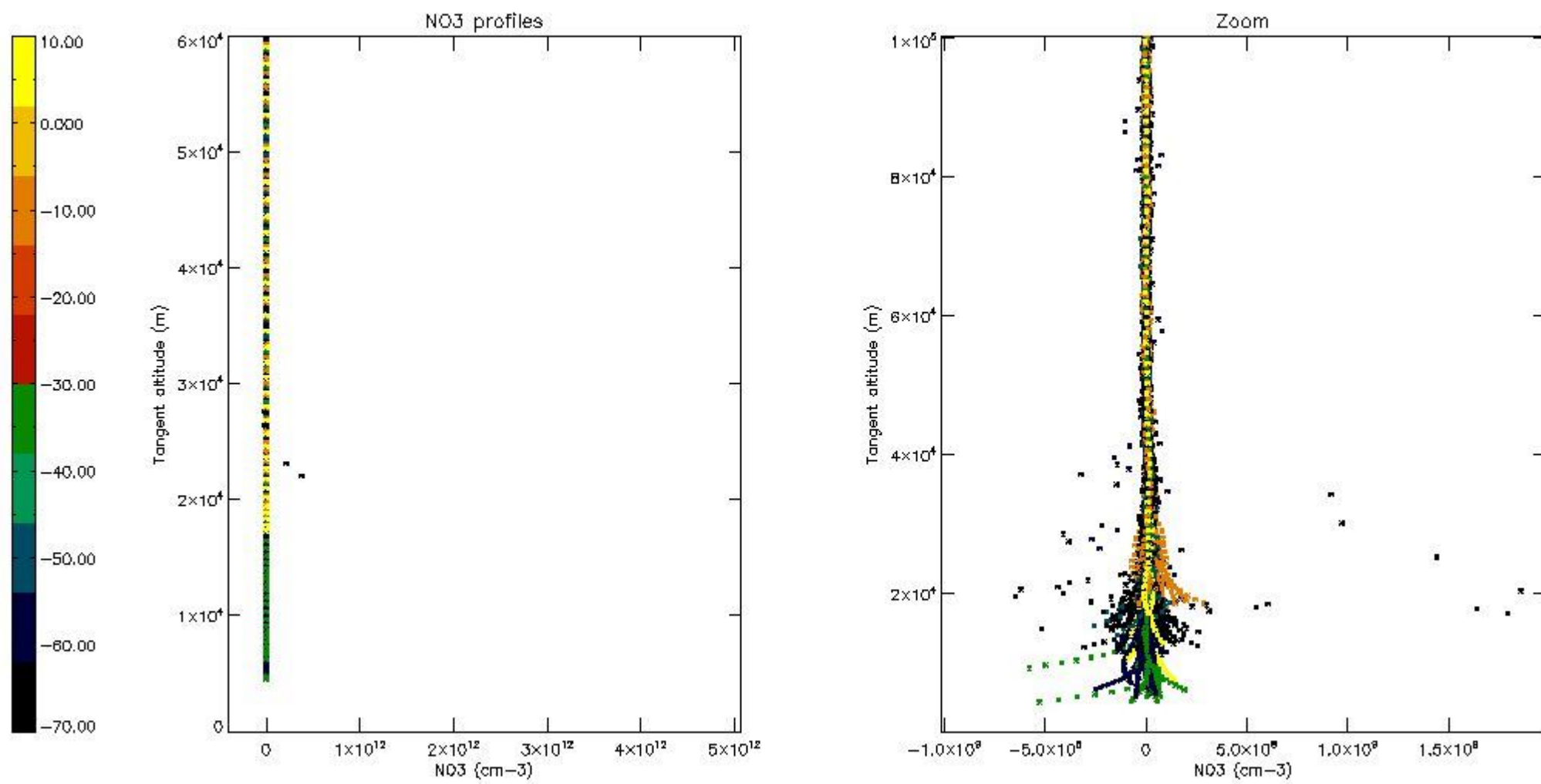
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



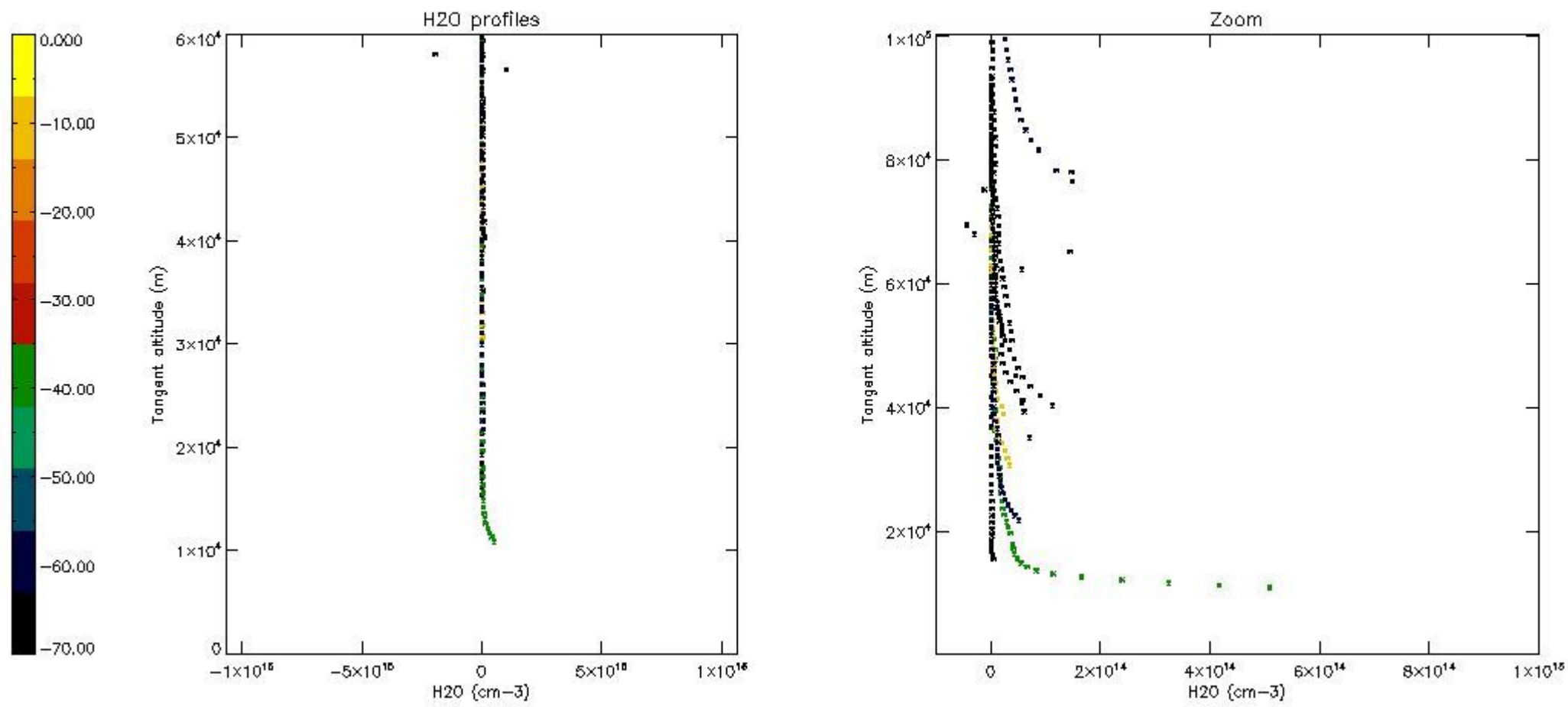
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	09-AUG-2004 00:01:44
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-AUG-2004 00:01:44
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-AUG-2004 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](#)

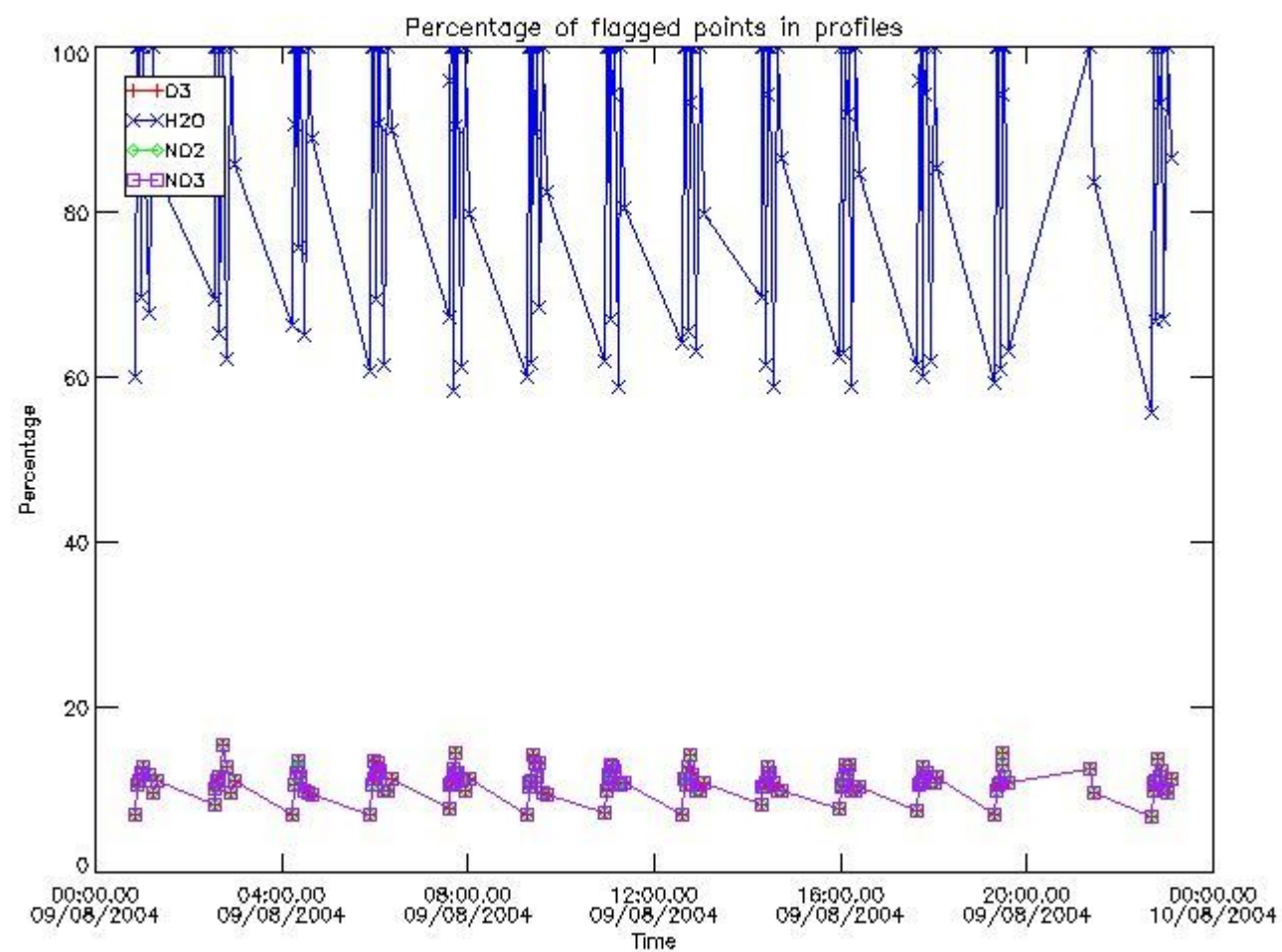
[6. Auxiliary Data Files used for the production reported in section 2](#)

397	GOM_NL__2PRFIN20040809_232624_000000492029_00202_12781_2410.N1	09-AUG-2004 23:26:24	Bright	49.000	142	49Del Cap	2.8500	8900.0	98	12781	No
398	GOM_NL__2PRFIN20040809_233006_000000472029_00202_12781_2411.N1	09-AUG-2004 23:30:06	Bright	46.500	154	22Bet Aqr	2.8990	5700.0	93	12781	No
399	GOM_NL__2PRFIN20040809_233419_000000382029_00202_12781_2412.N1	09-AUG-2004 23:34:19	Bright	38.000	11	53Alp Aql	0.76500	8000.0	76	12781	No
400	GOM_NL__2PRFIN20040809_233559_000000392029_00202_12781_2413.N1	09-AUG-2004 23:35:59	Bright	39.000	168	17Zet Aql	2.9860	11000.	78	12781	No
401	GOM_NL__2PRFIN20040809_234203_000000452029_00202_12781_2414.N1	09-AUG-2004 23:42:03	Bright	45.000	92	53Eps Cyg	2.5000	4500.0	90	12781	No
402	GOM_NL__2PRFIN20040809_234333_000000432029_00202_12781_2415.N1	09-AUG-2004 23:43:33	Bright	42.500	66	37Gam Cyg	2.2080	5900.0	85	12781	No
403	GOM_NL__2PRFIN20040809_234518_000000392029_00202_12781_2416.N1	09-AUG-2004 23:45:18	Bright	38.500	19	50Alp Cyg	1.2460	10500.	77	12781	No
404	GOM_NL__2PRFIN20040809_234707_000000422029_00202_12781_2417.N1	09-AUG-2004 23:47:07	Bright	42.000	69	33Gam Dra	2.2310	3800.0	84	12781	No
405	GOM_NL__2PRFIN20040809_235043_000000412029_00202_12781_2418.N1	09-AUG-2004 23:50:43	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	12781	No
406	GOM_NL__2PRFIN20040809_235525_000000372029_00202_12781_2419.N1	09-AUG-2004 23:55:25	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	12781	No
407	GOM_NL__2PRFIN20040809_235720_000000392029_00202_12781_2420.N1	09-AUG-2004 23:57:20	Bright	39.000	49	1Alp UMi	1.9900	6300.0	78	12781	No
408	GOM_NL__2PRFIN20040809_235945_000000522029_00202_12781_2421.N1	09-AUG-2004 23:59:45	Bright	51.500	110	37Del Cas	2.6780	8900.0	103	12781	No

3. Quality information per product

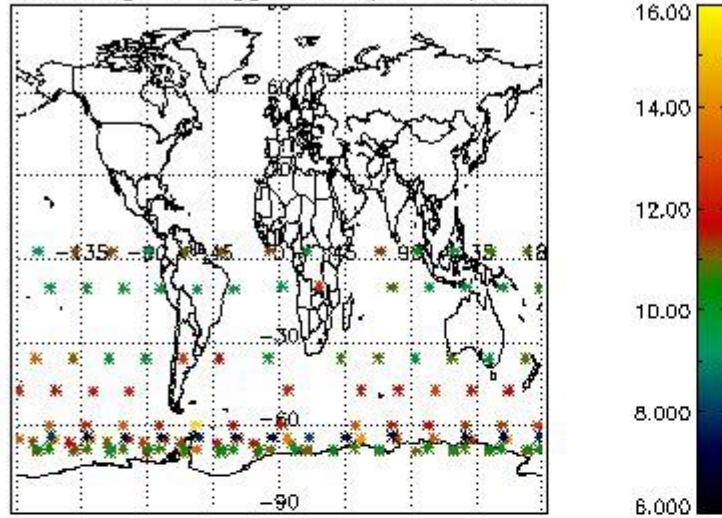
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

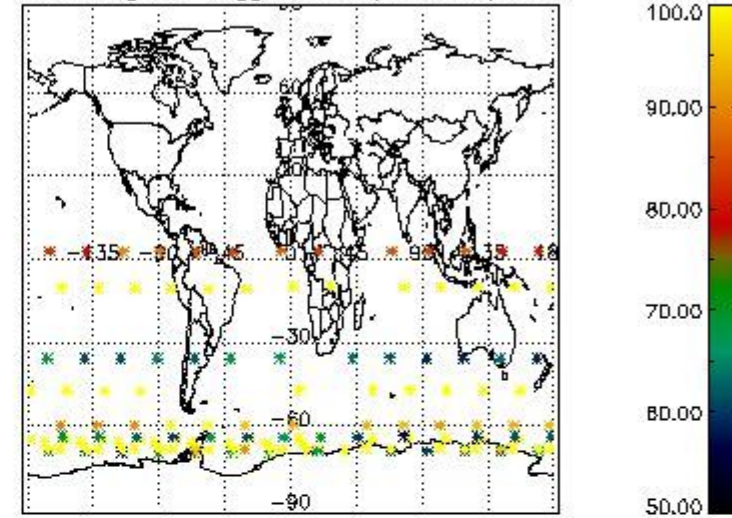


3.2 Plot quality information per product (world map)

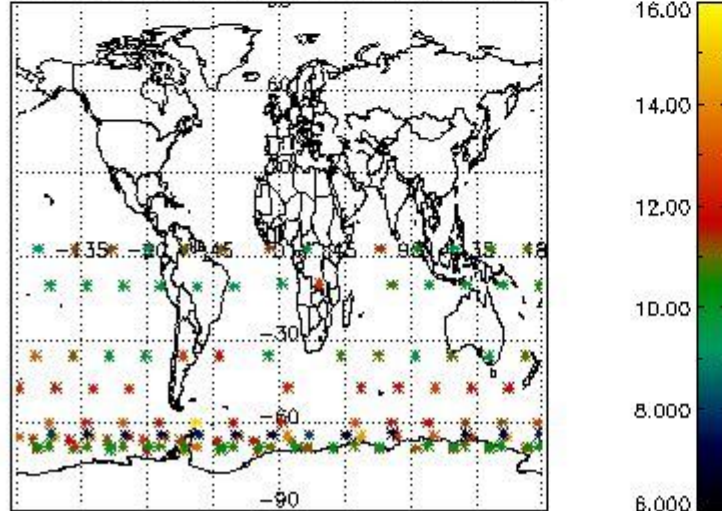
Percentage of flagged data per O3 profile



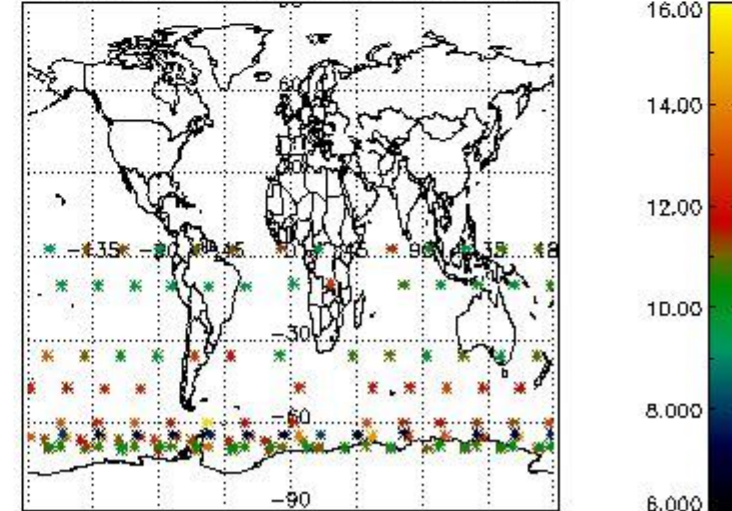
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

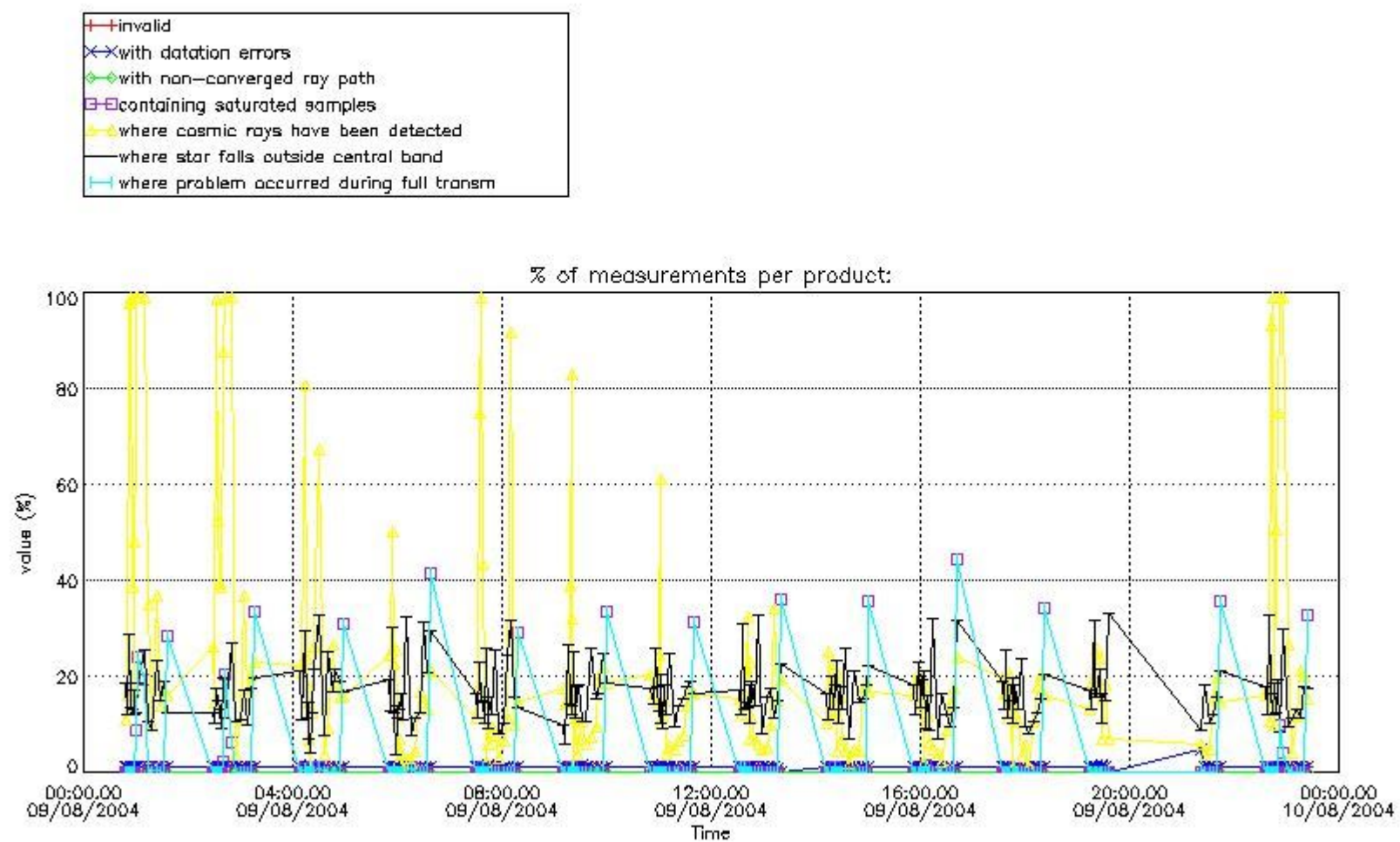


4. Level 1 quality information per product

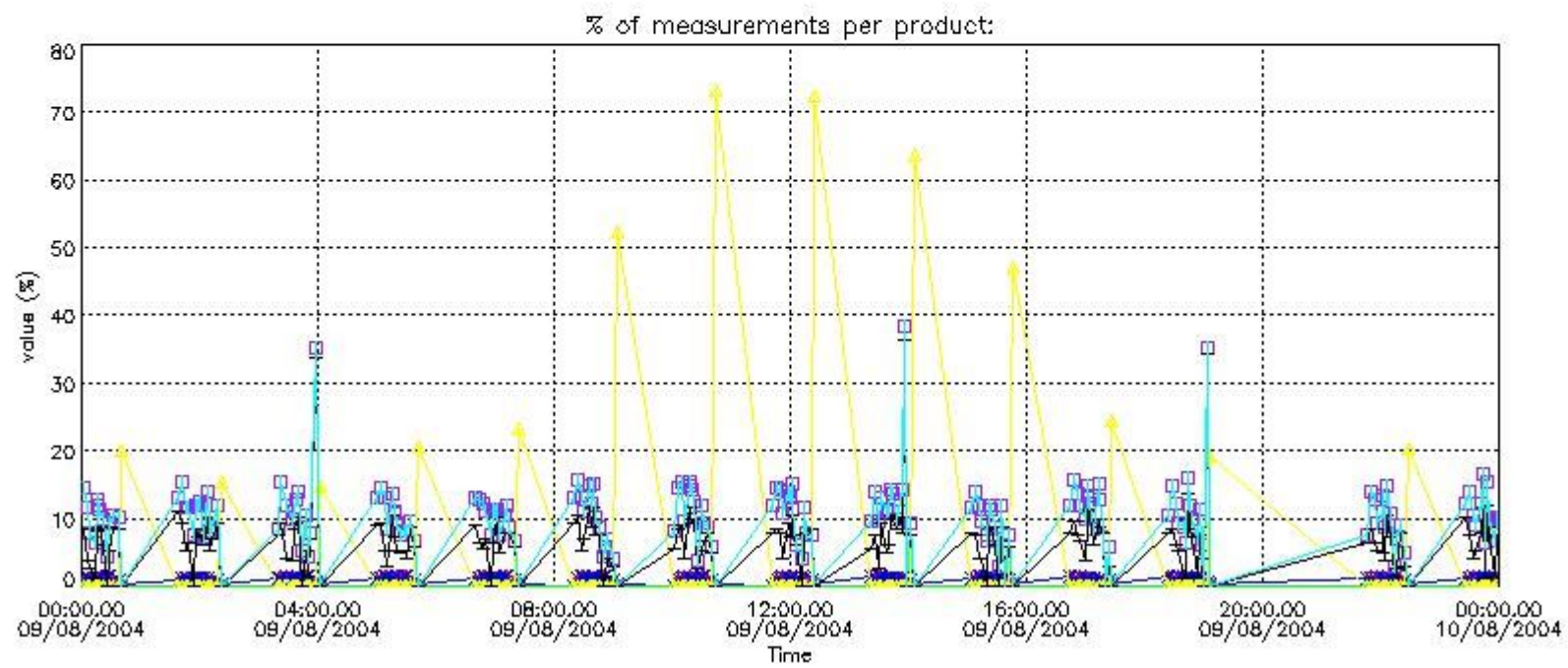
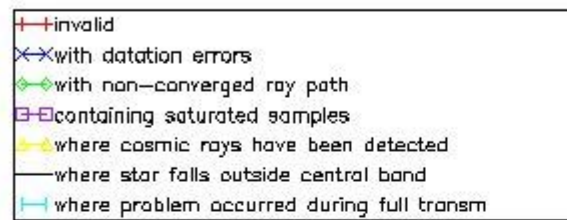
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

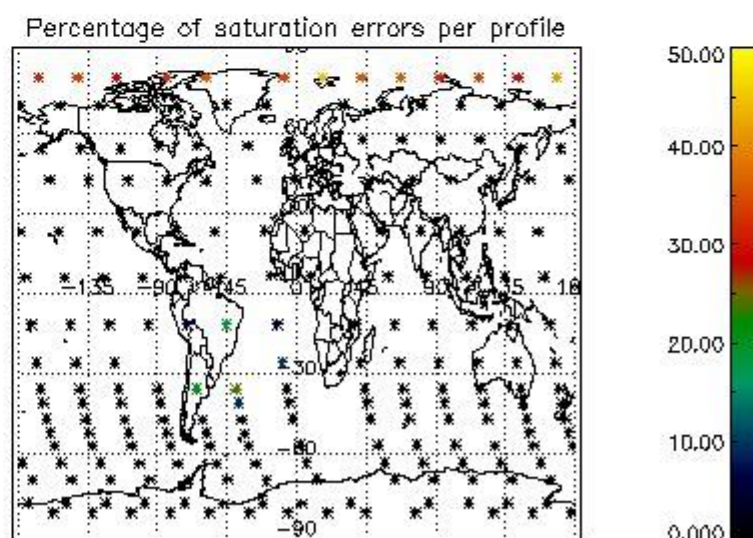
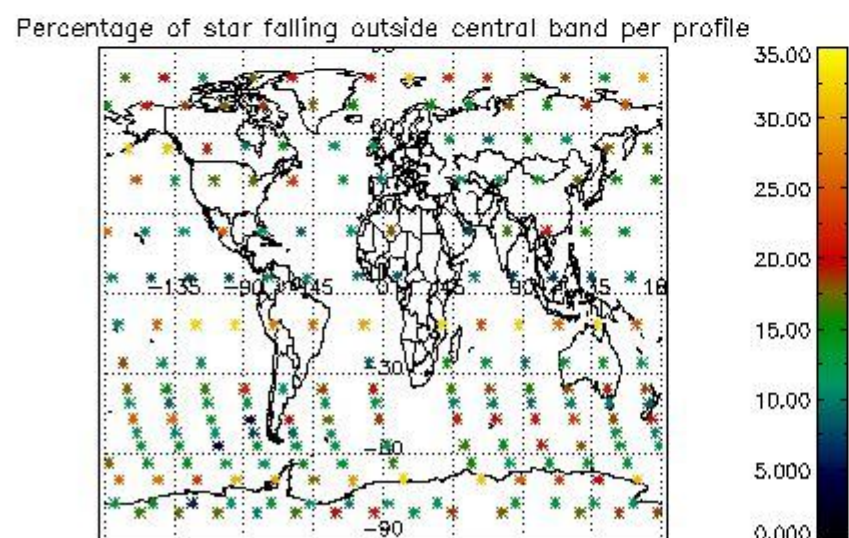
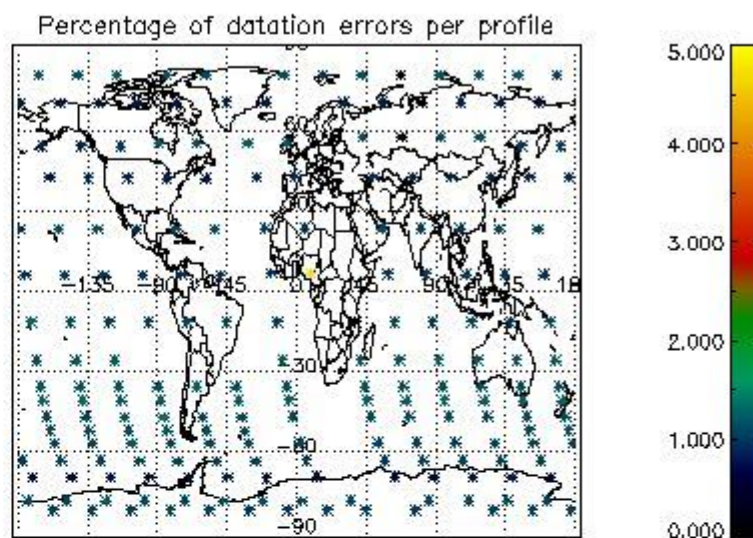
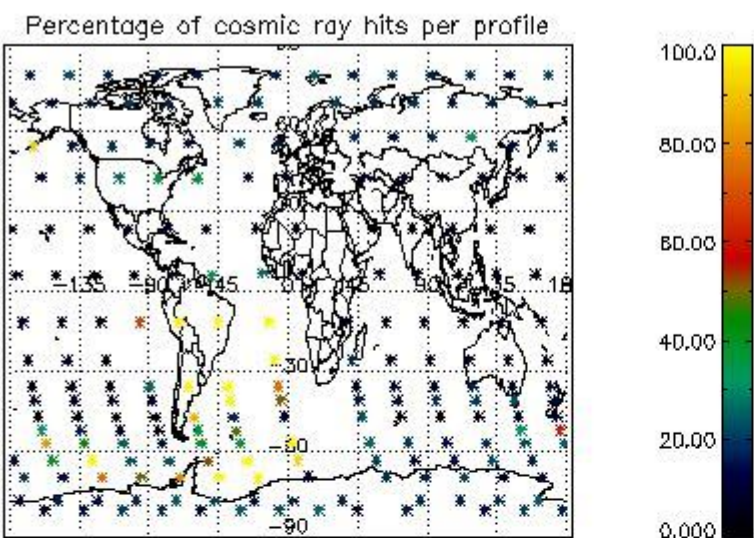


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

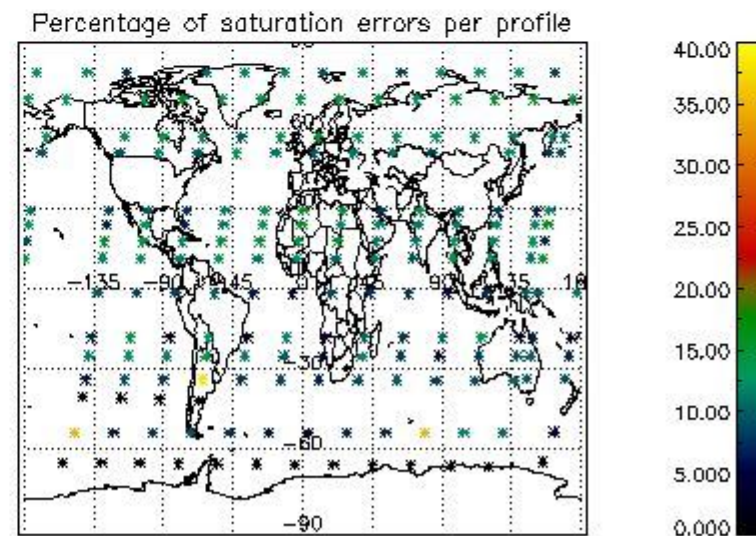
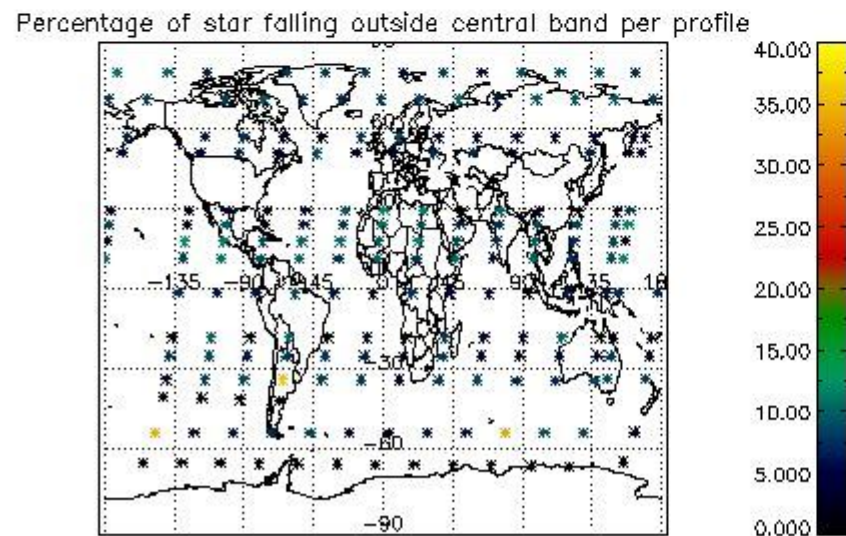
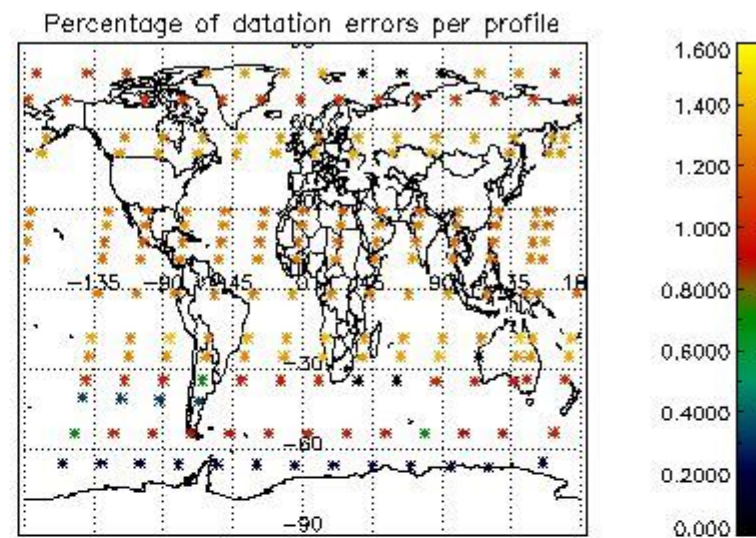
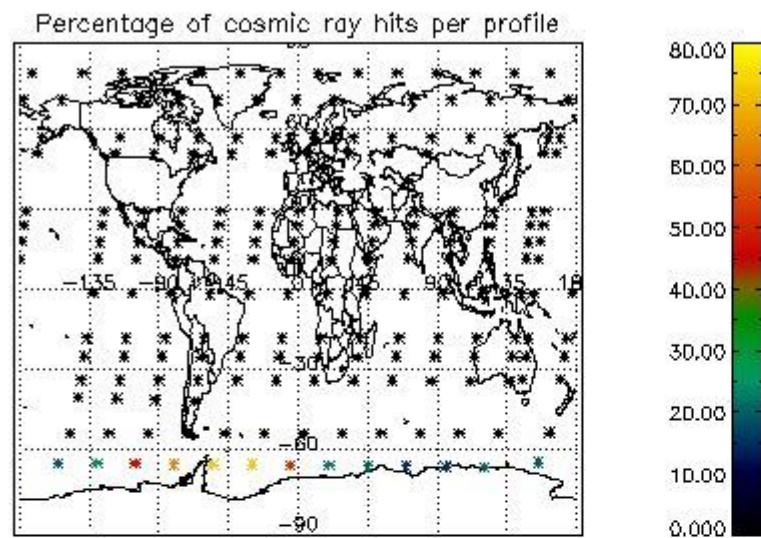


4.2 Plot quality information per product coming from level 1b processing (world map)

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

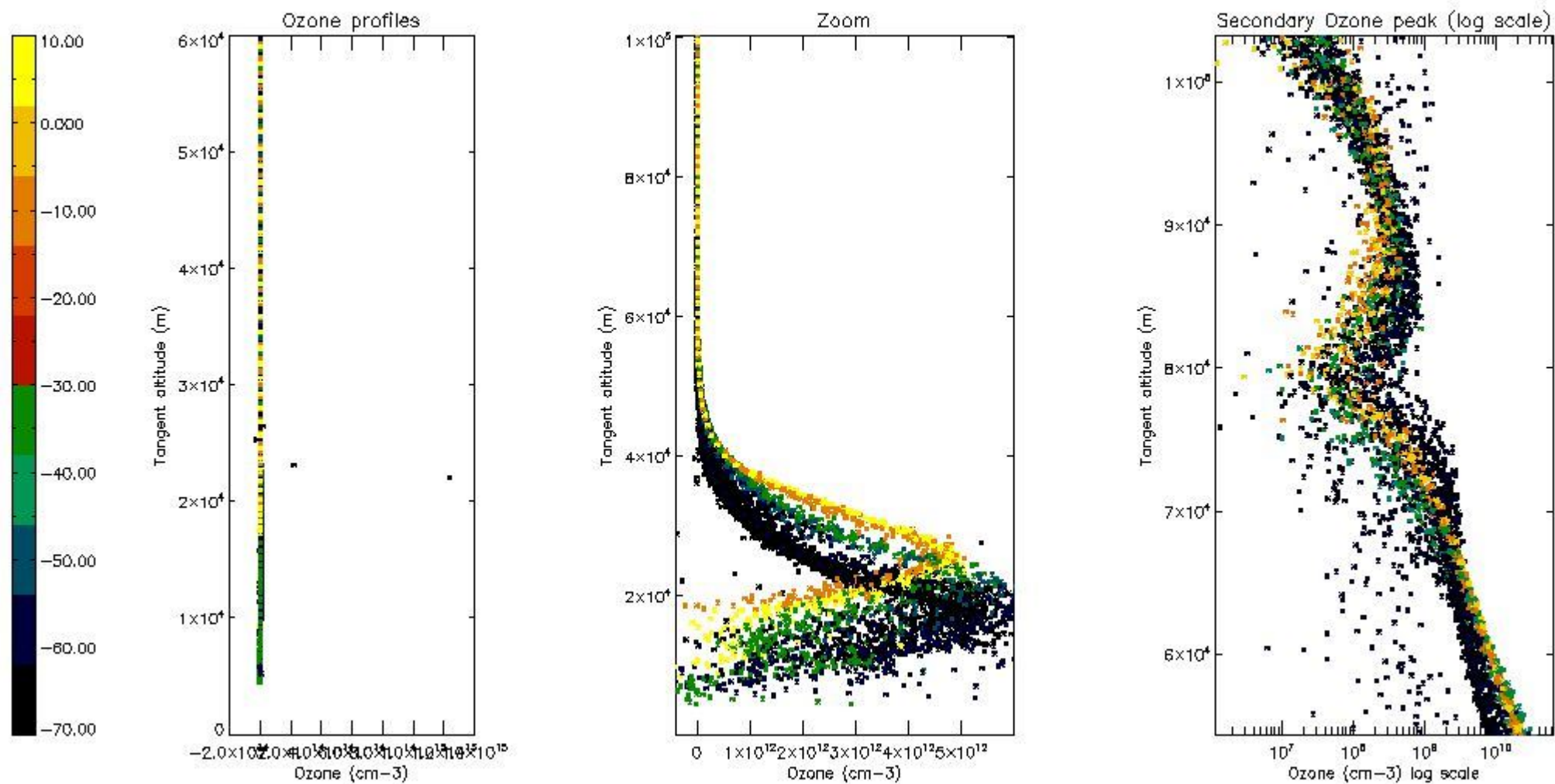
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	30
STD < 20	19

STD < 10	17
STD < 5	13

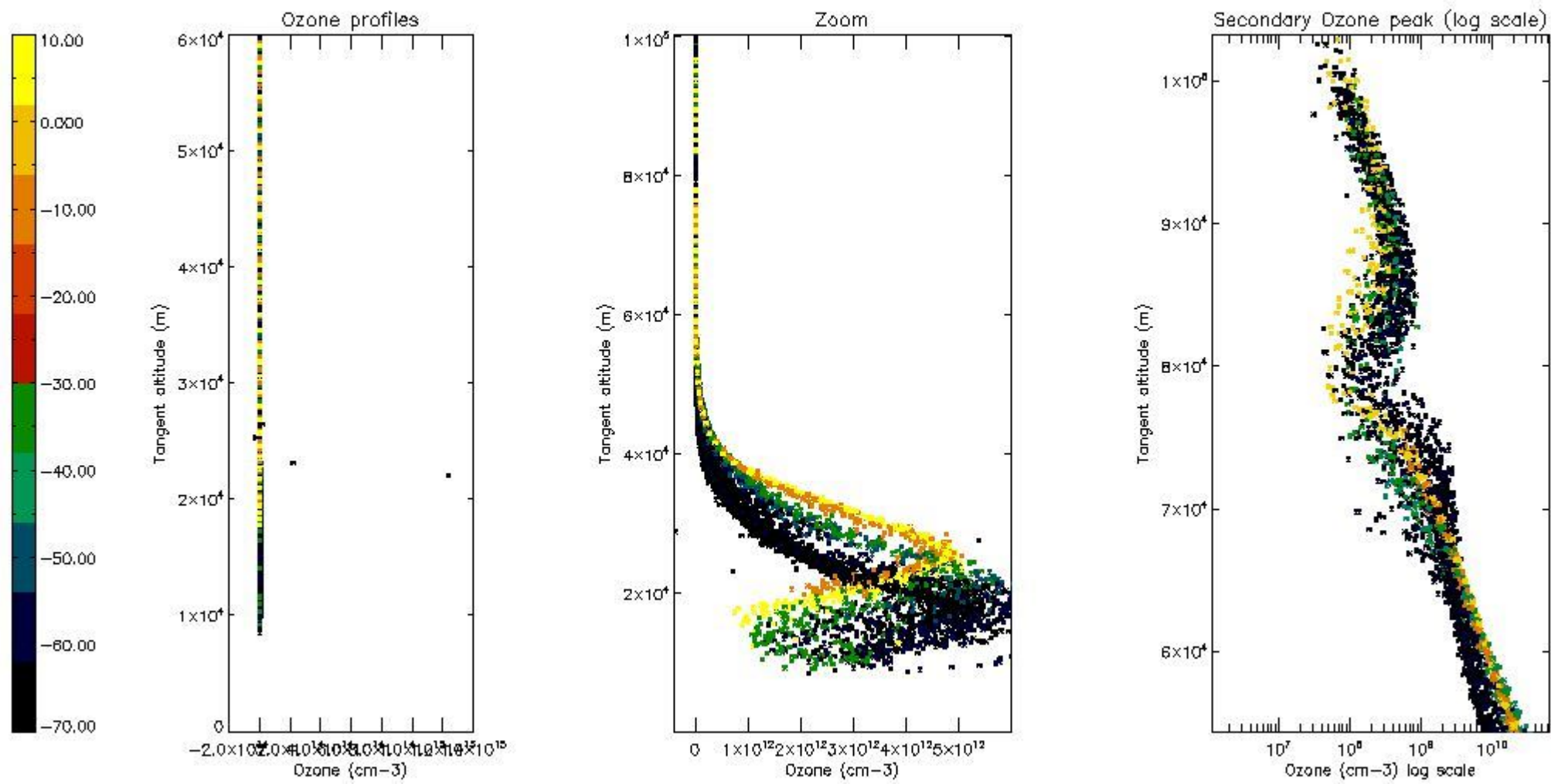
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



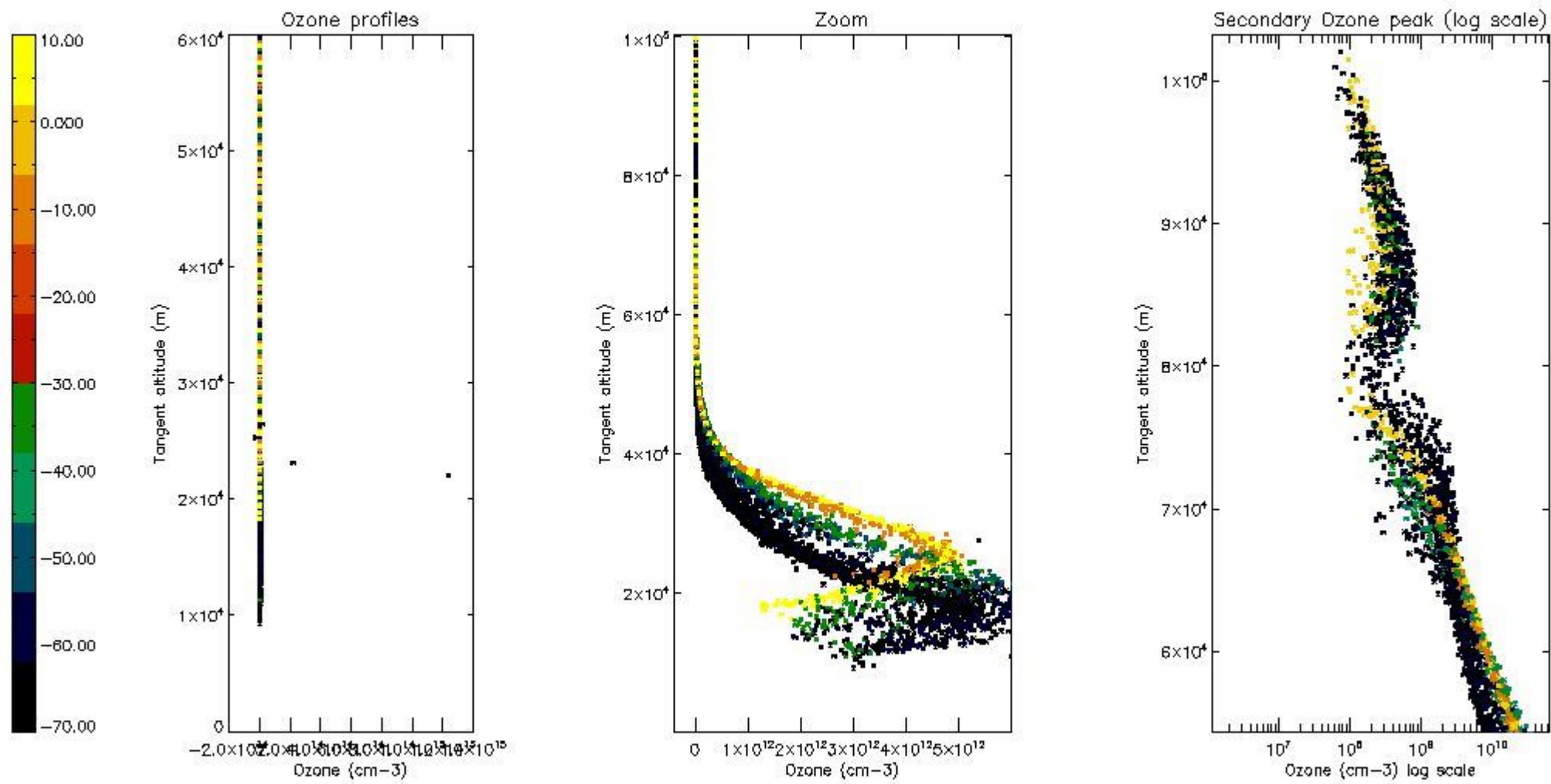
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



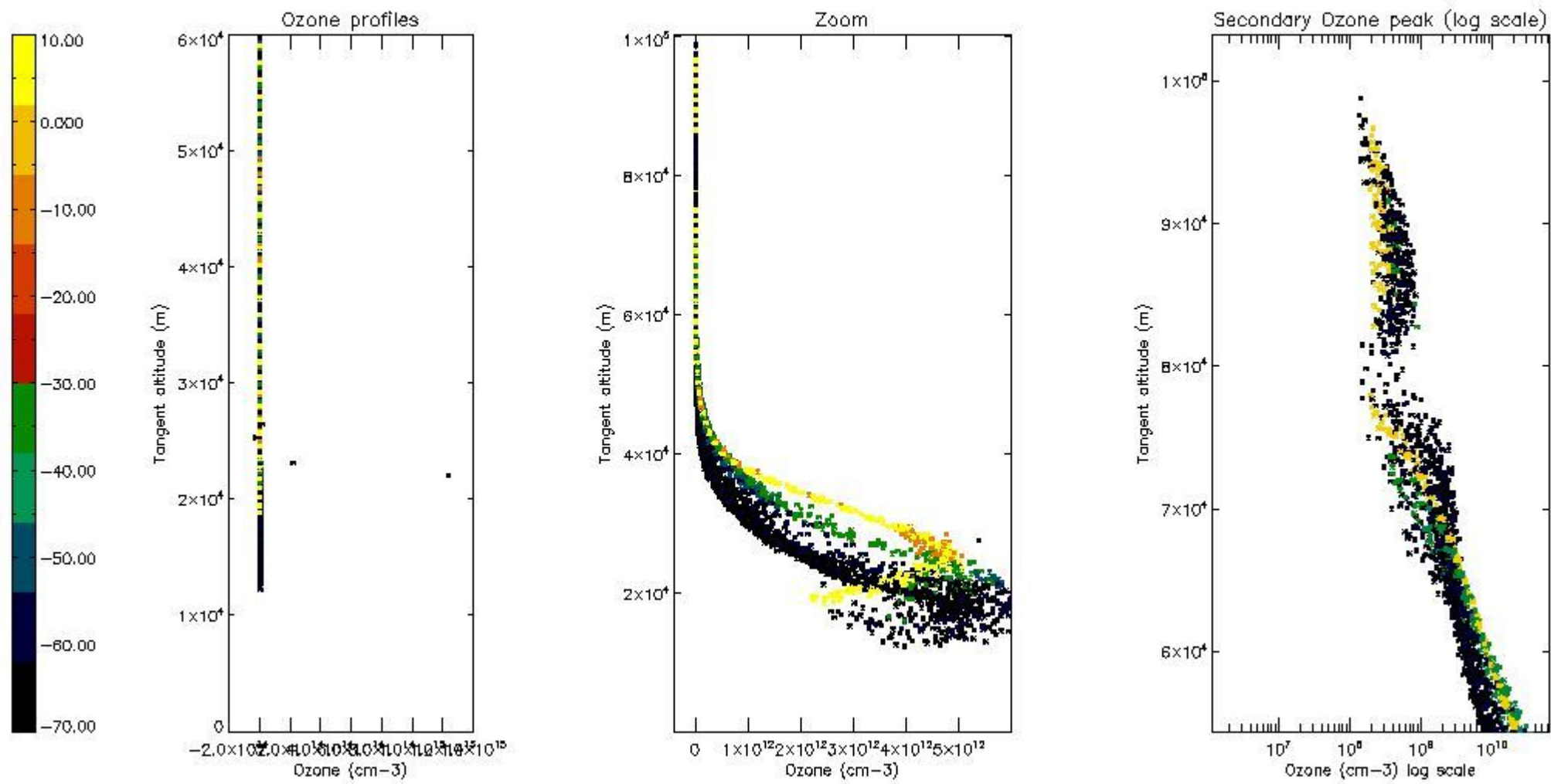
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



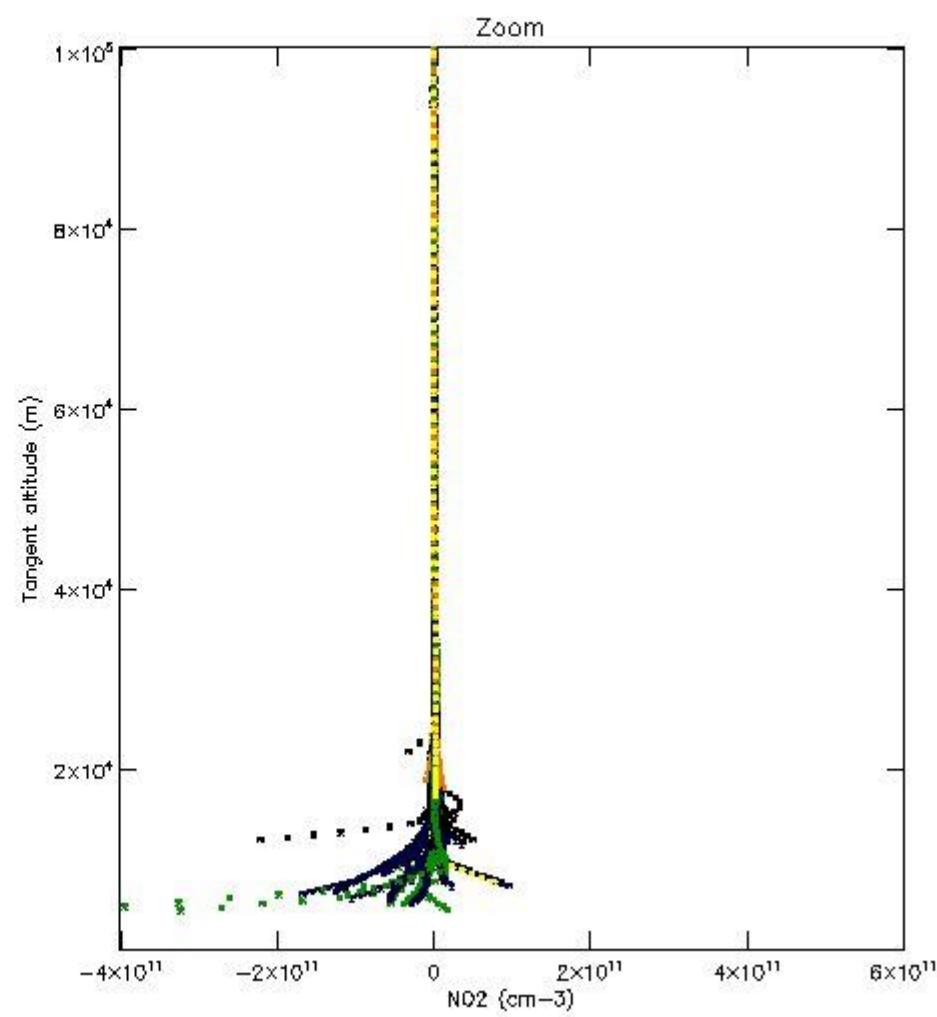
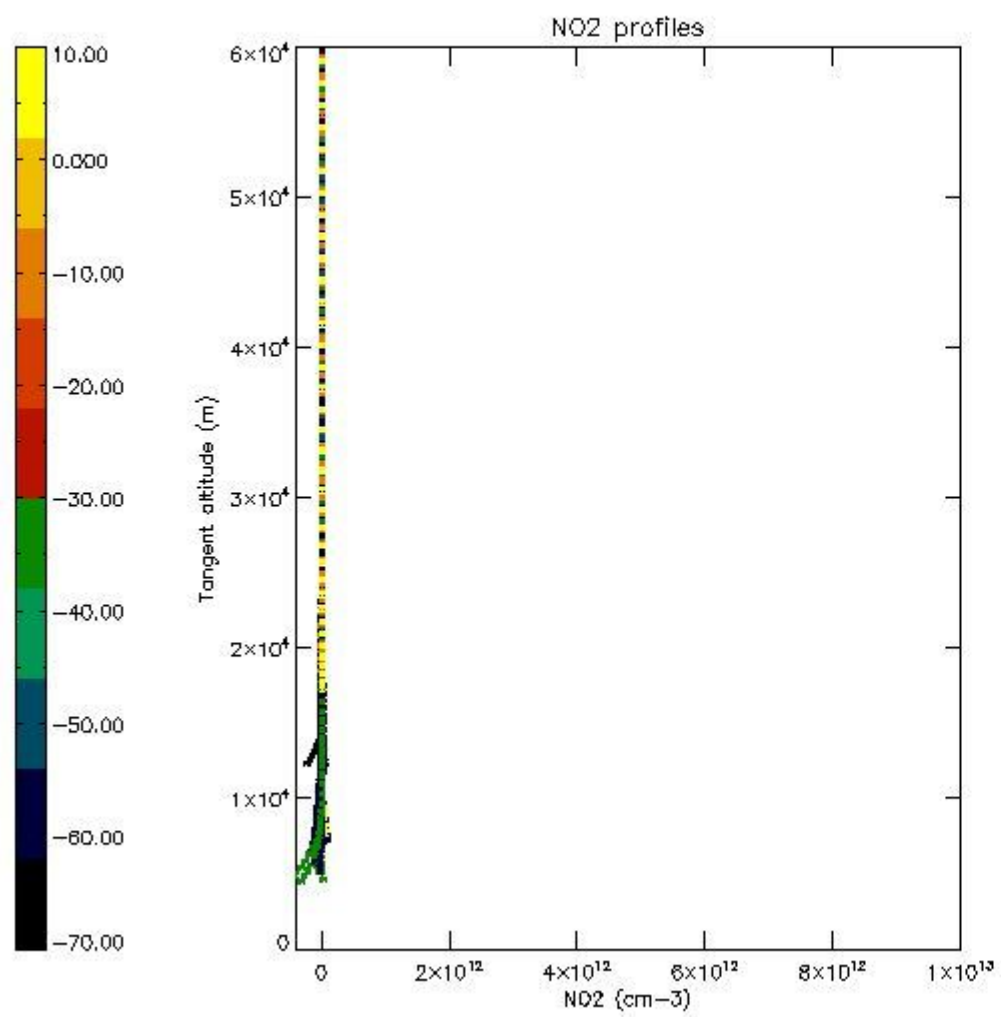
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



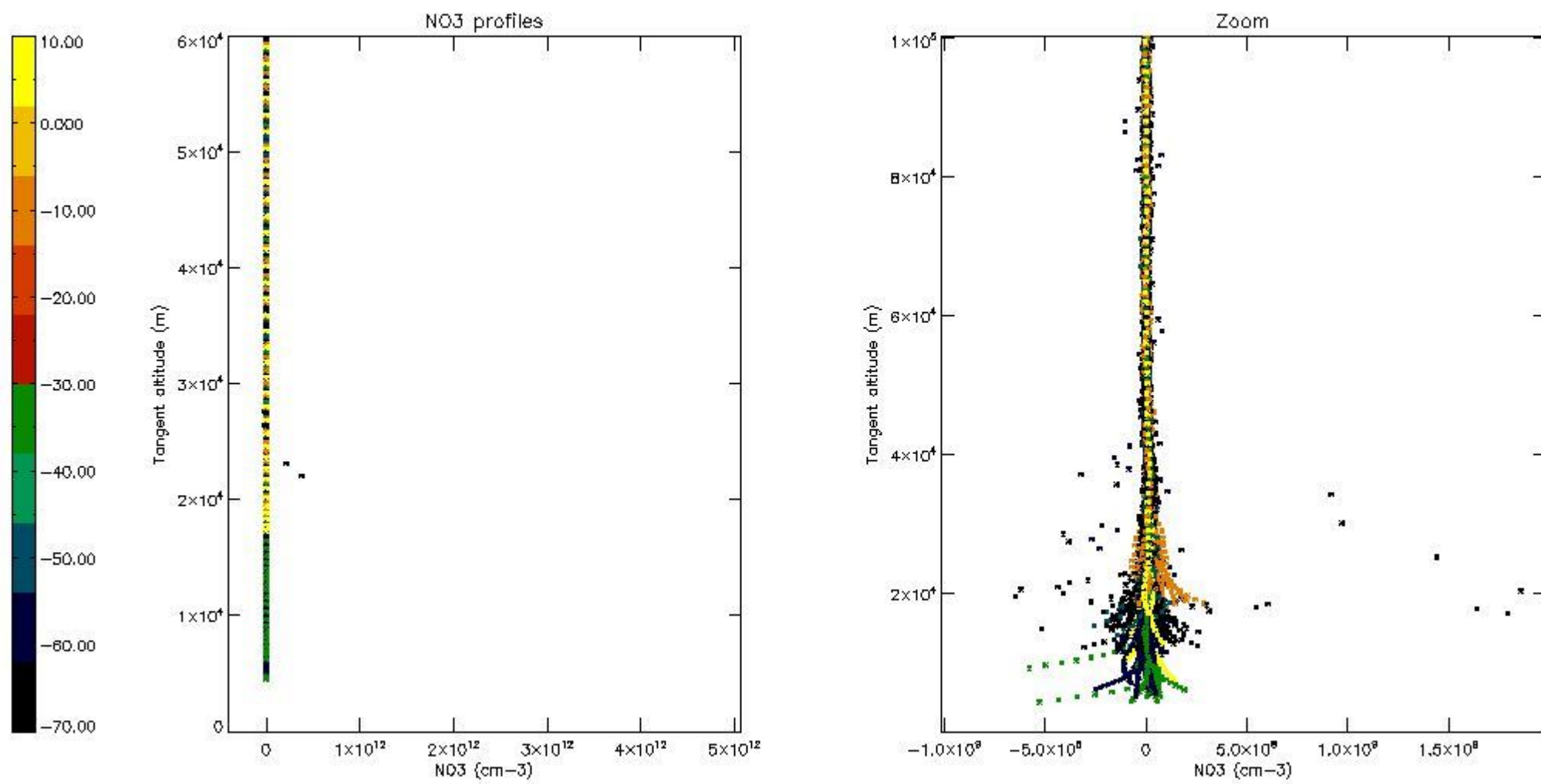
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



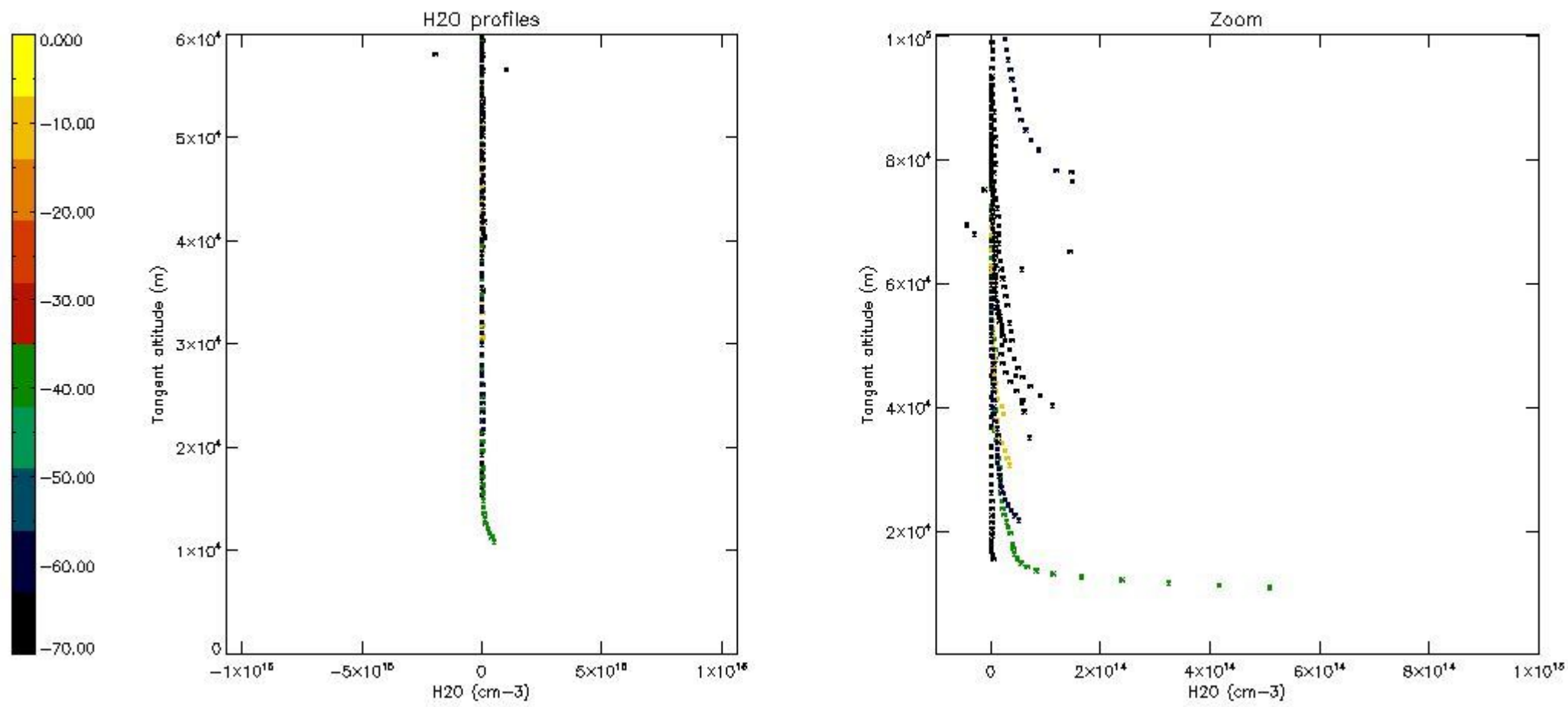
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

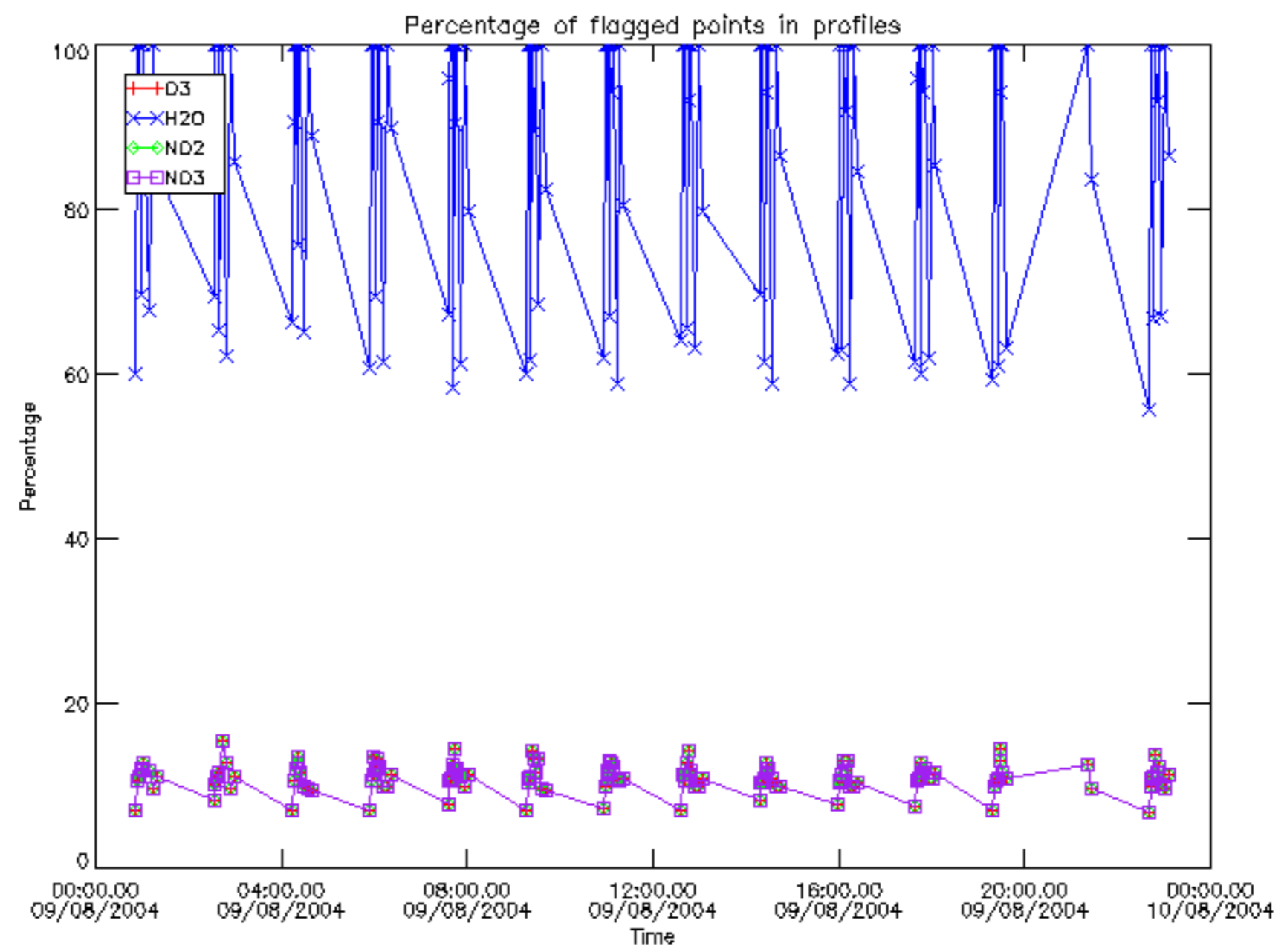
The colorbar represents the latitude.



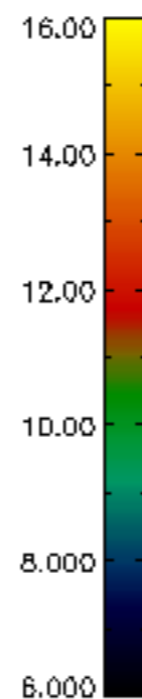
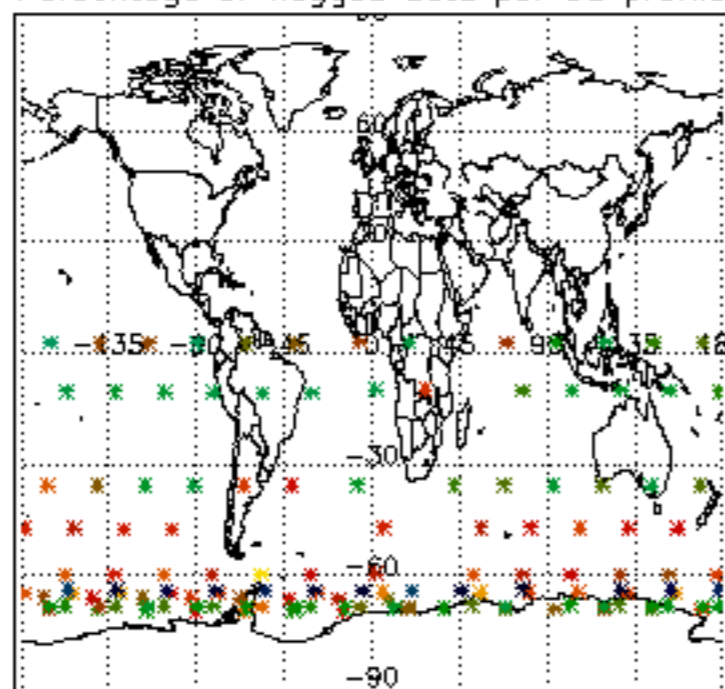
6. Auxiliary Data Files used for the production reported in section 2

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

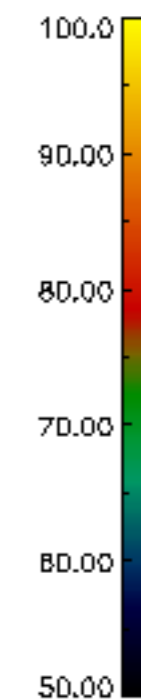
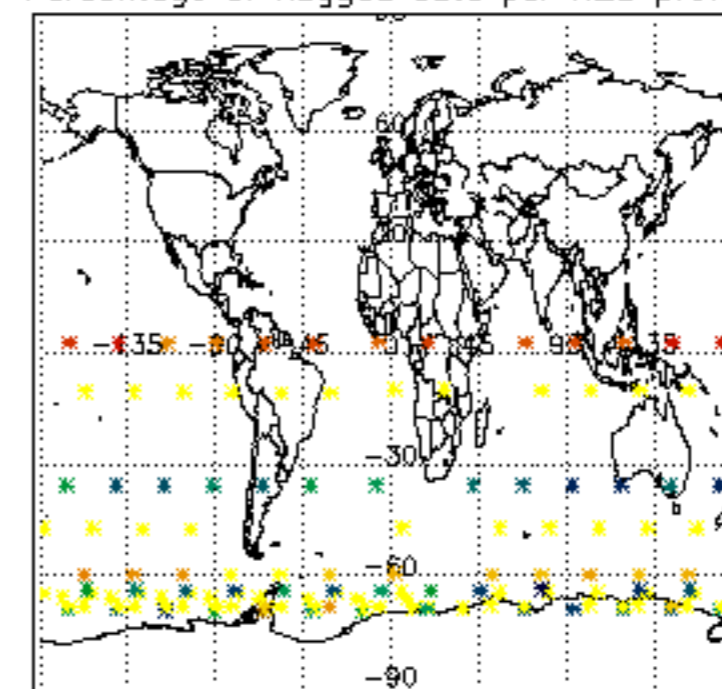
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	09-AUG-2004 00:01:44
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-AUG-2004 00:01:44
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-AUG-2004 00:01:44



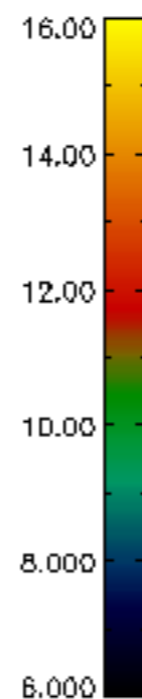
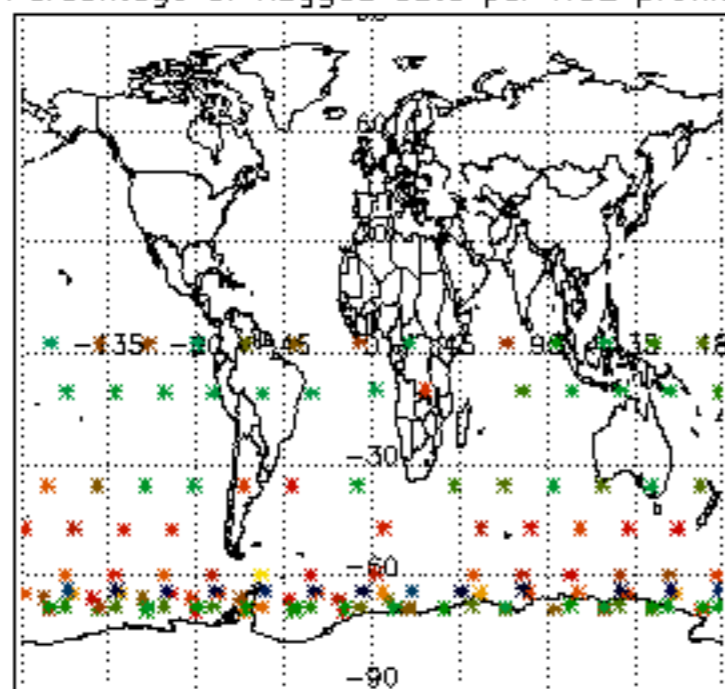
Percentage of flagged data per D3 profile



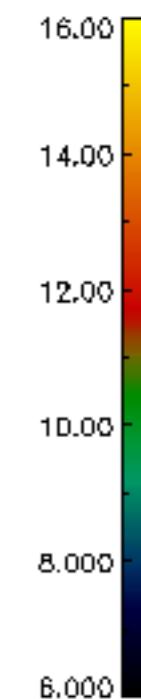
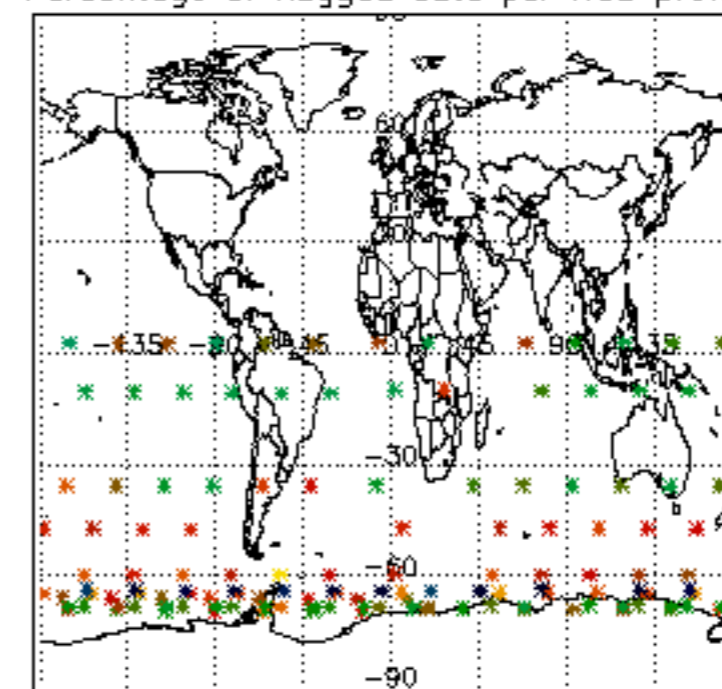
Percentage of flagged data per H2O profile

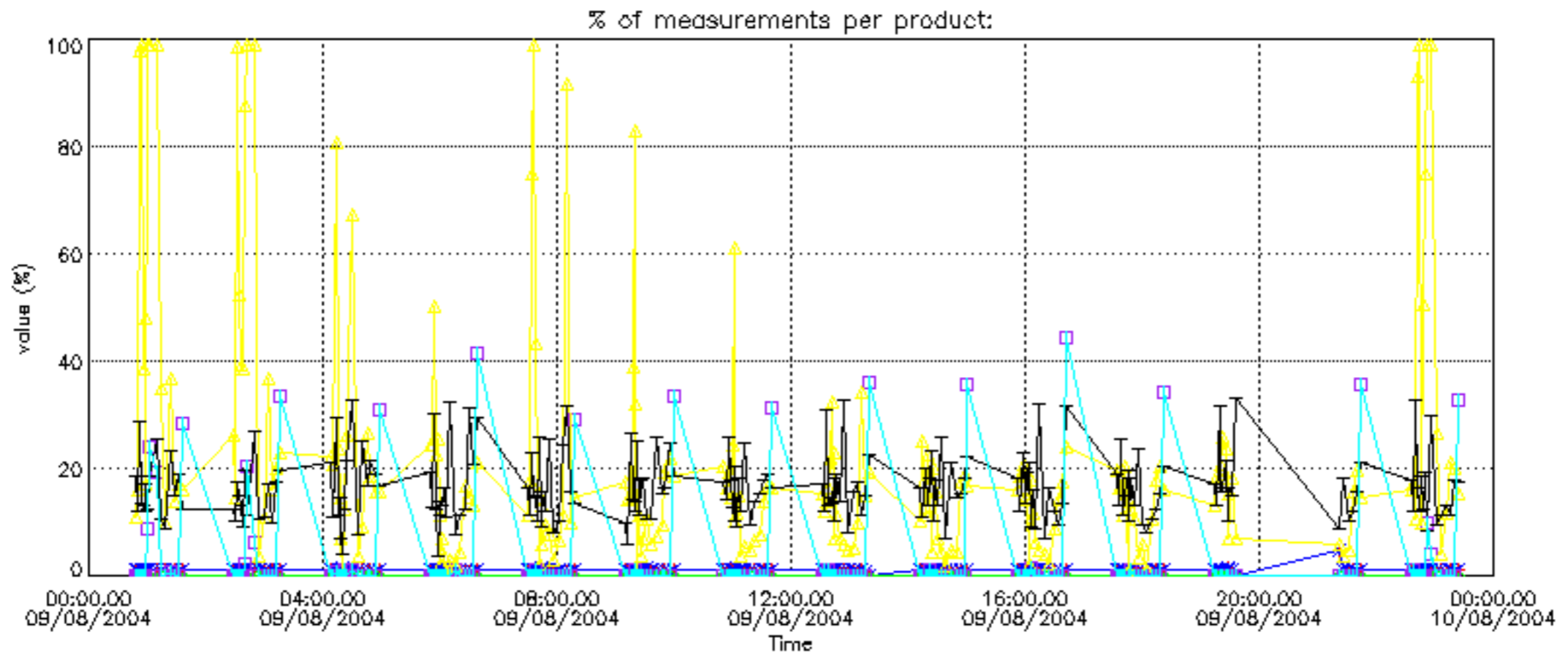


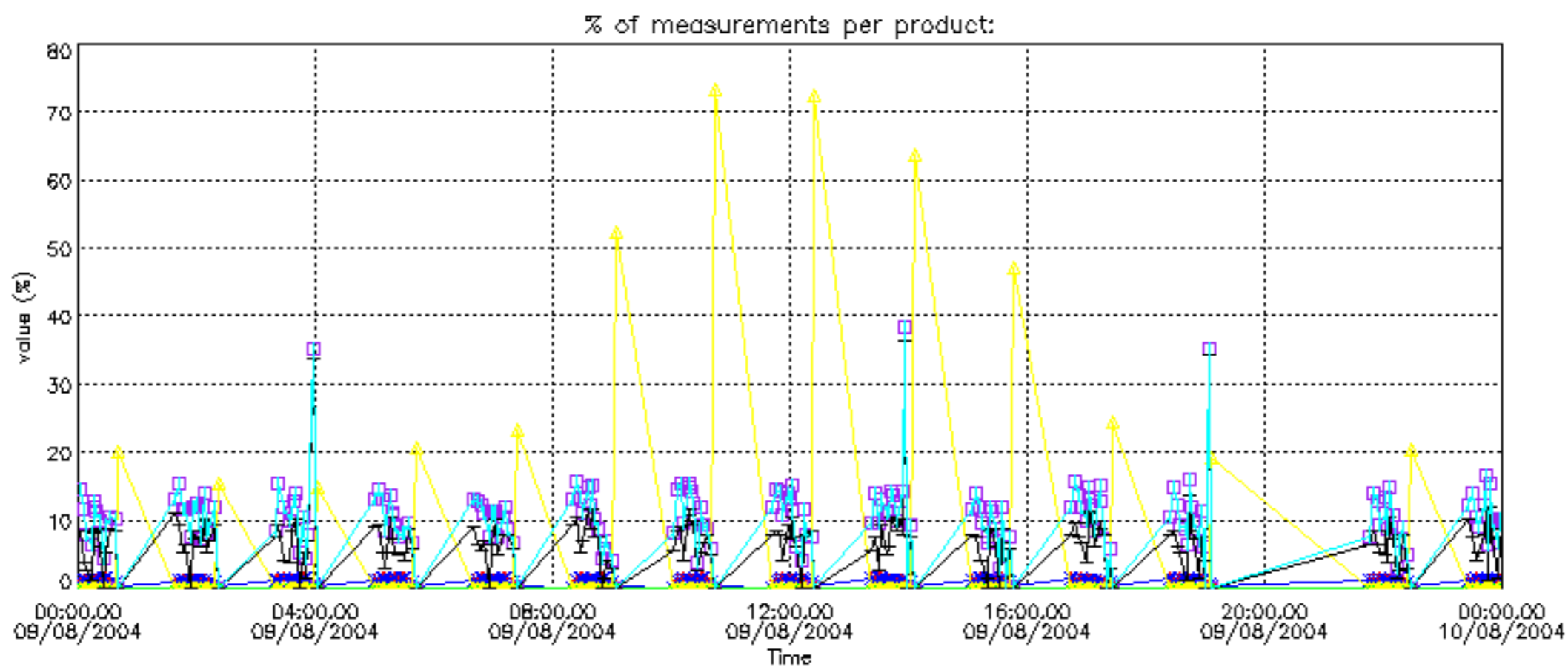
Percentage of flagged data per NO2 profile



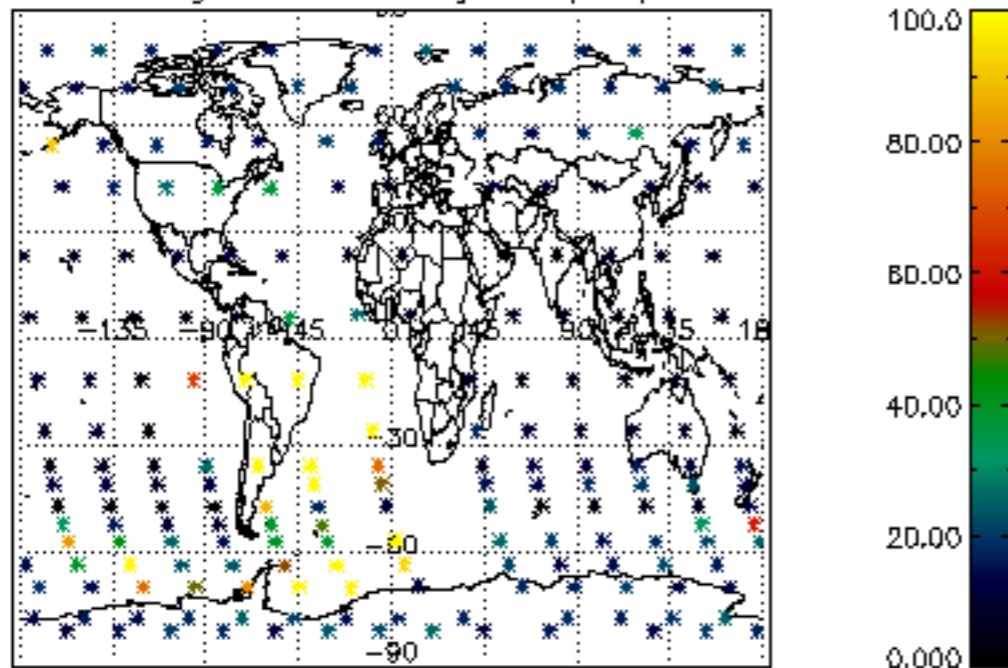
Percentage of flagged data per NO3 profile



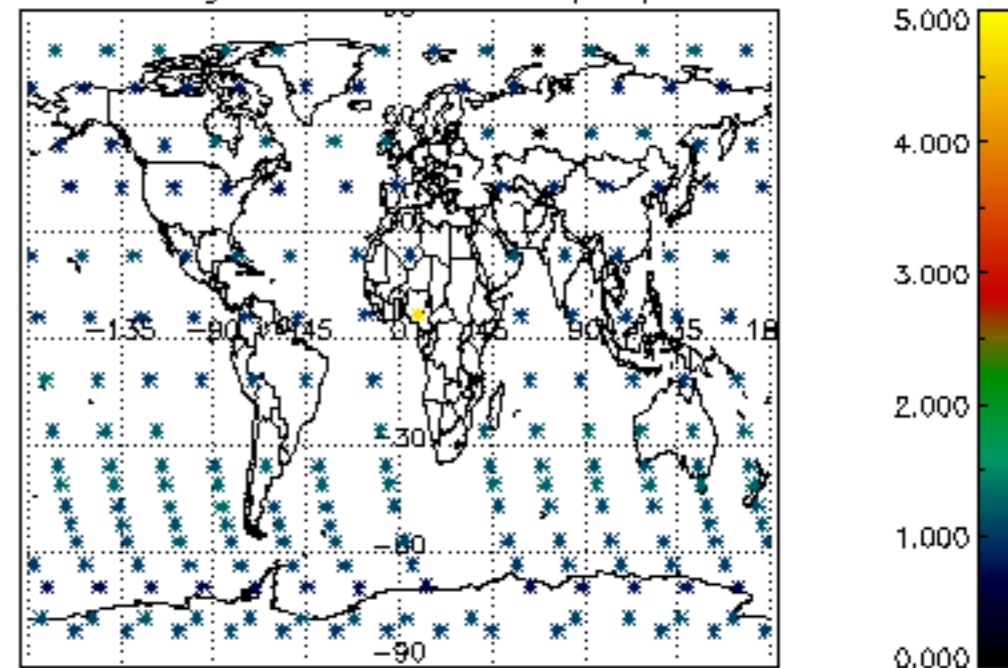




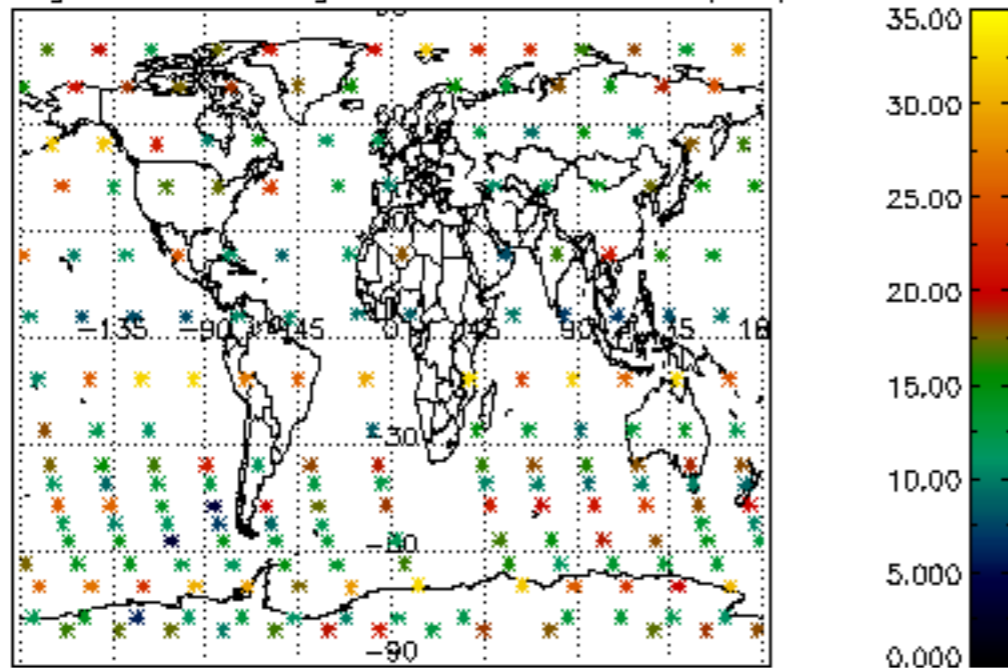
Percentage of cosmic ray hits per profile



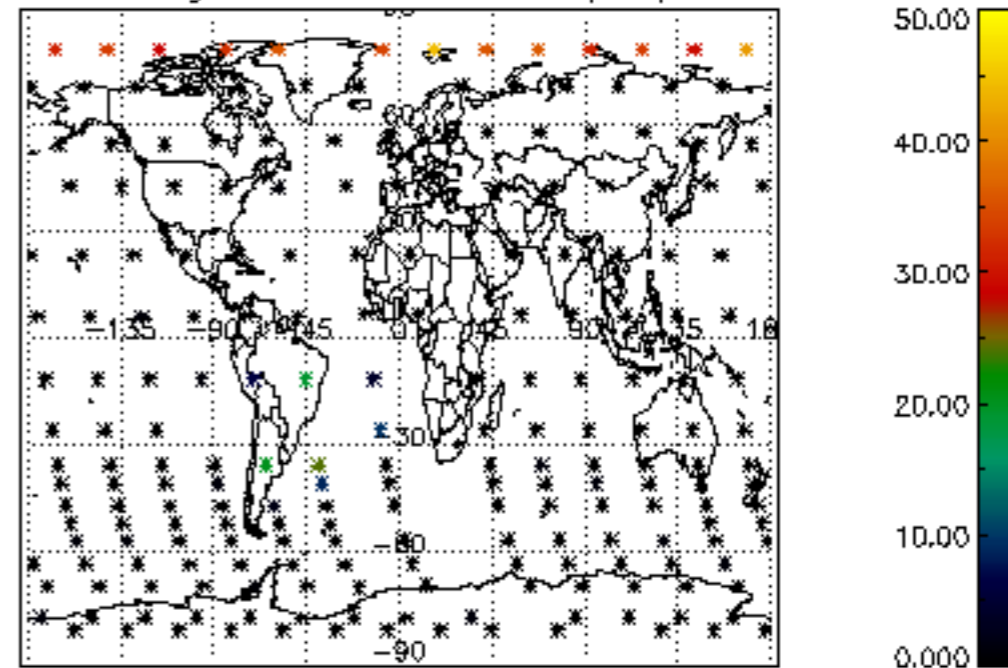
Percentage of datation errors per profile



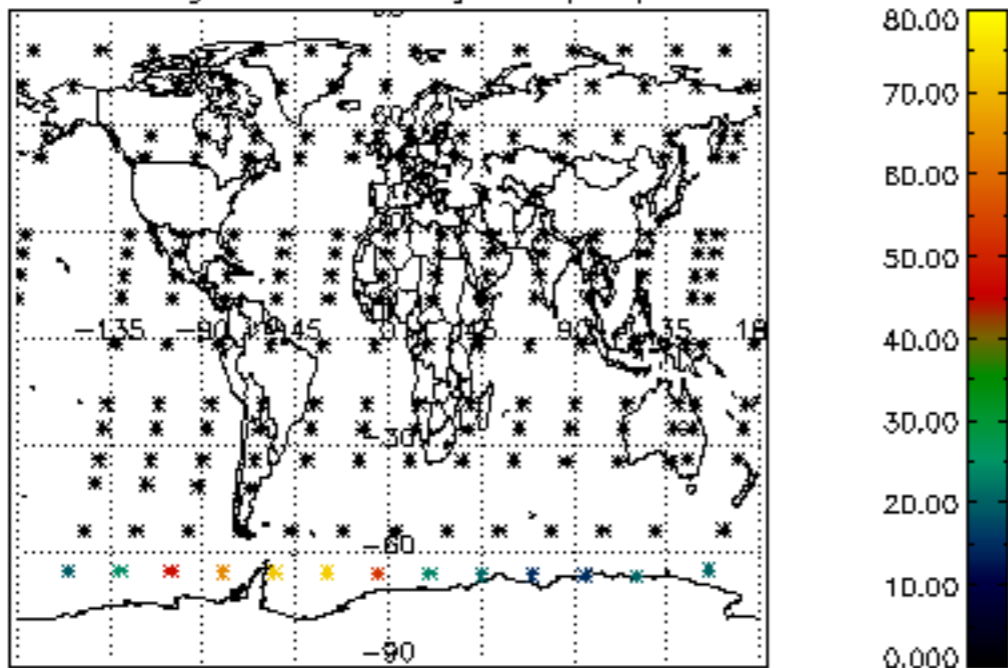
Percentage of star falling outside central band per profile



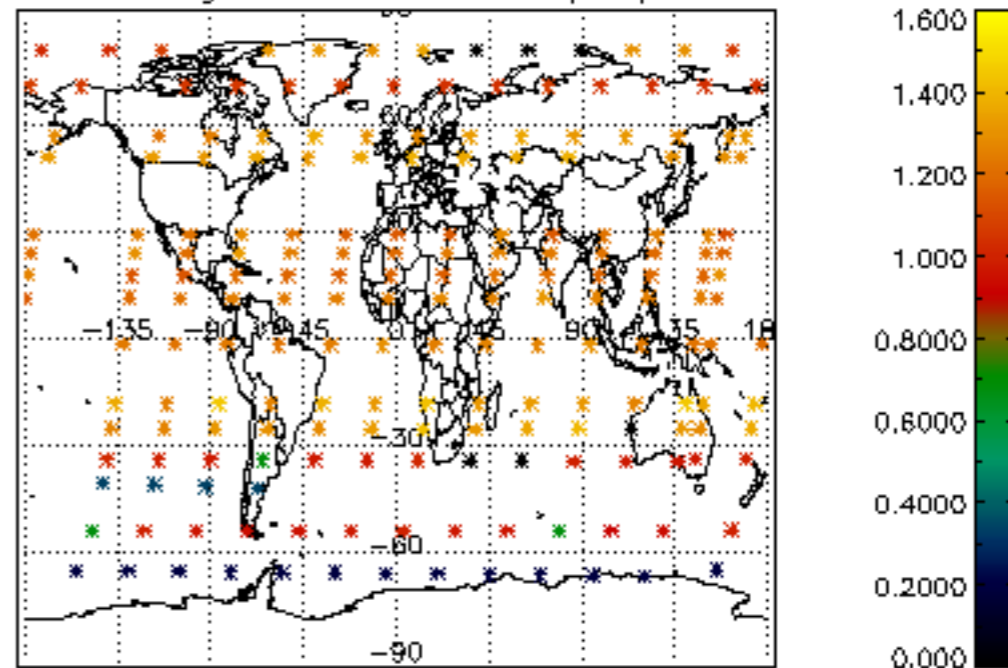
Percentage of saturation errors per profile



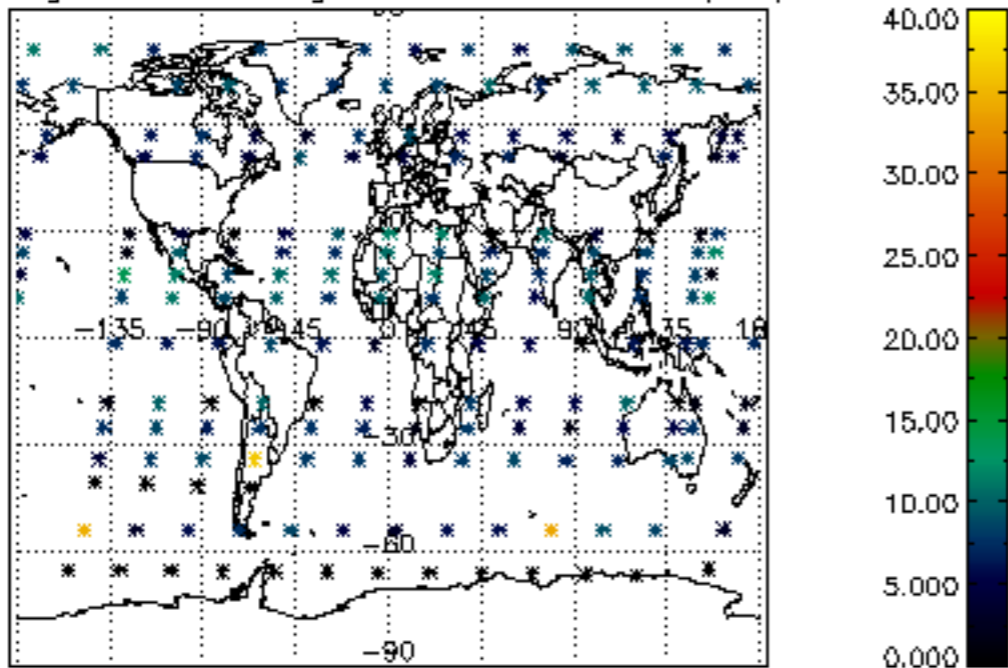
Percentage of cosmic ray hits per profile



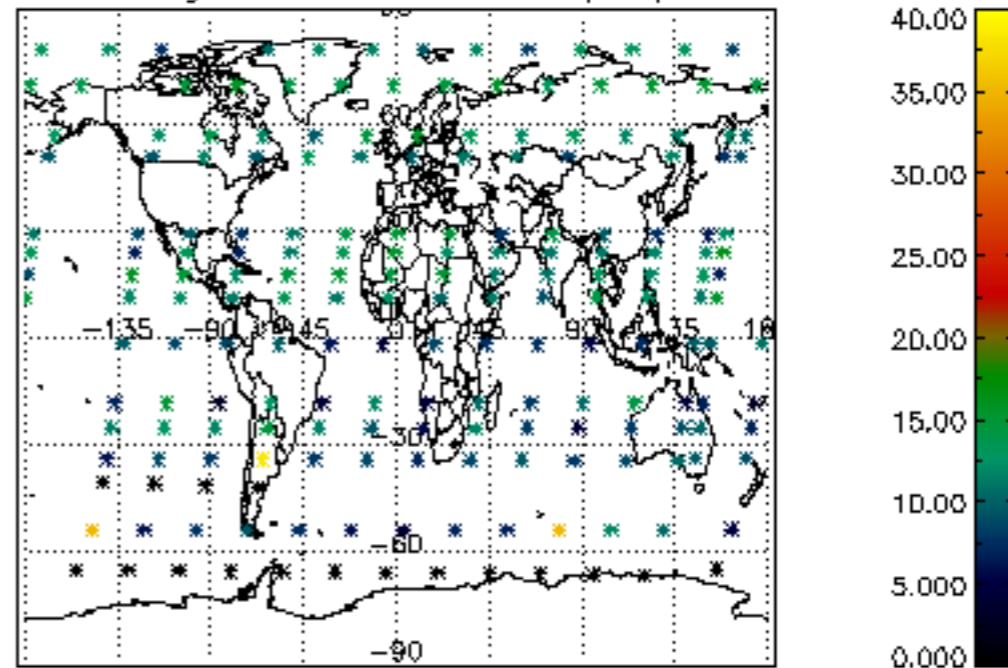
Percentage of datation errors per profile

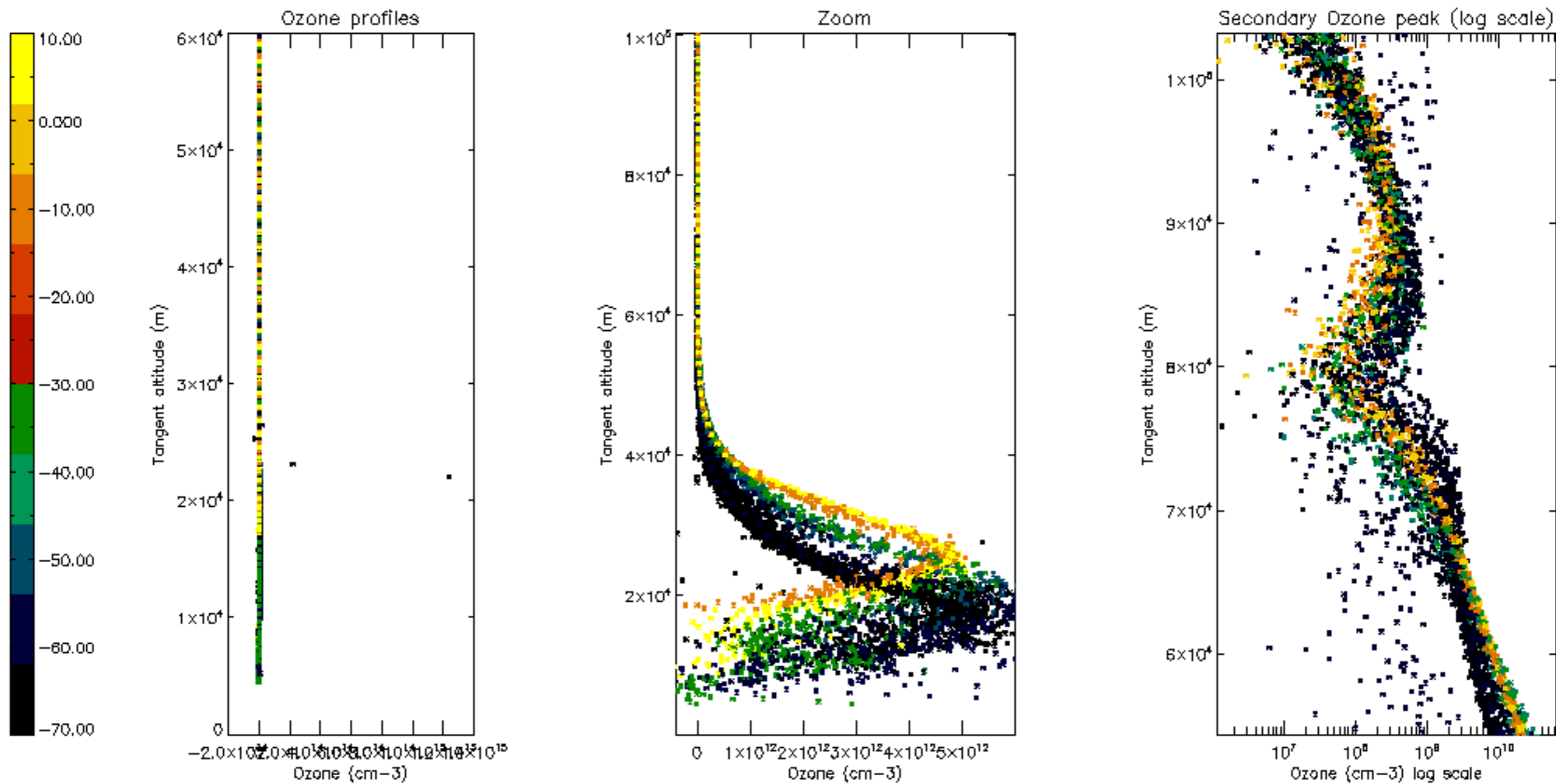


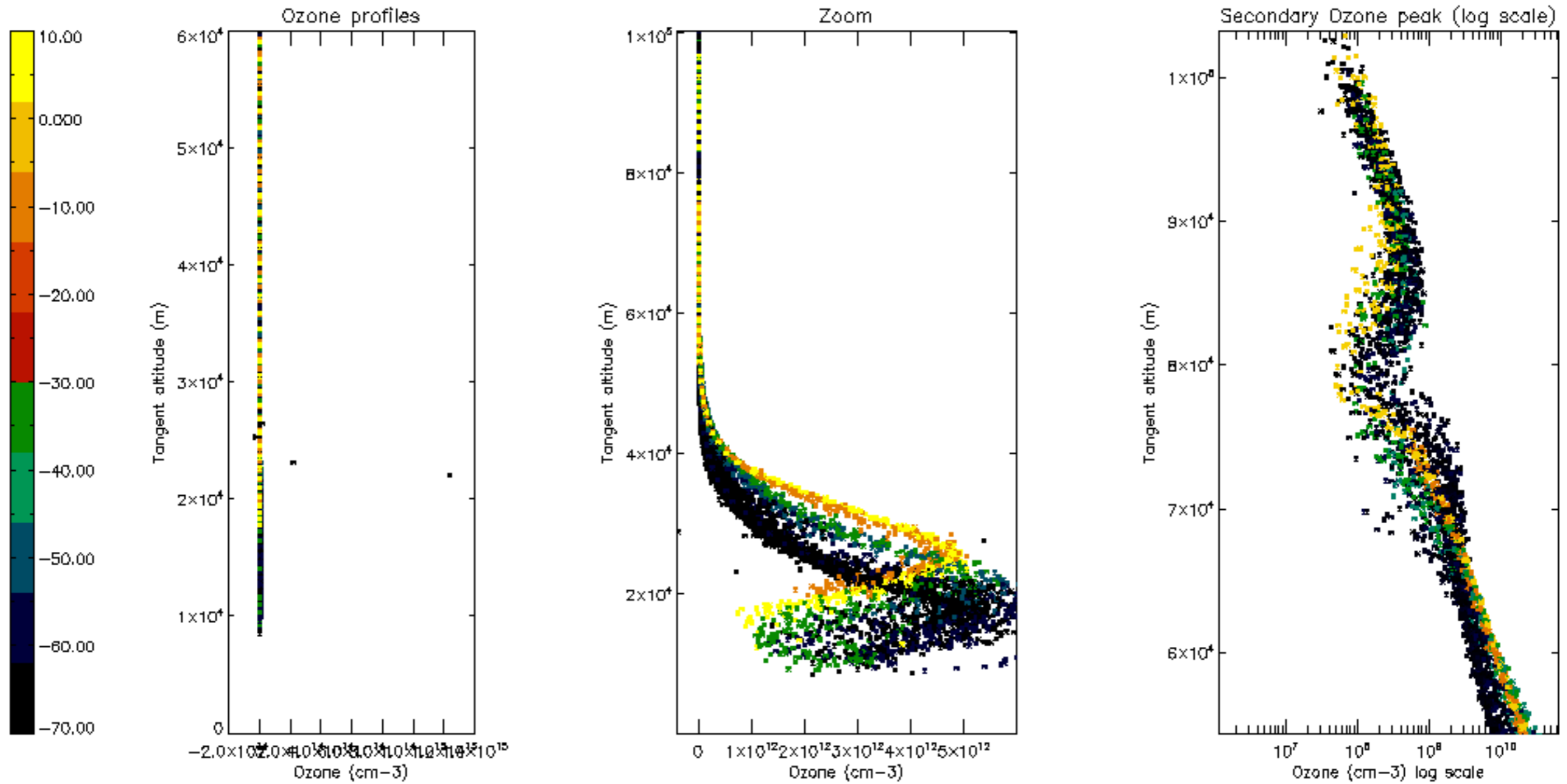
Percentage of star falling outside central band per profile

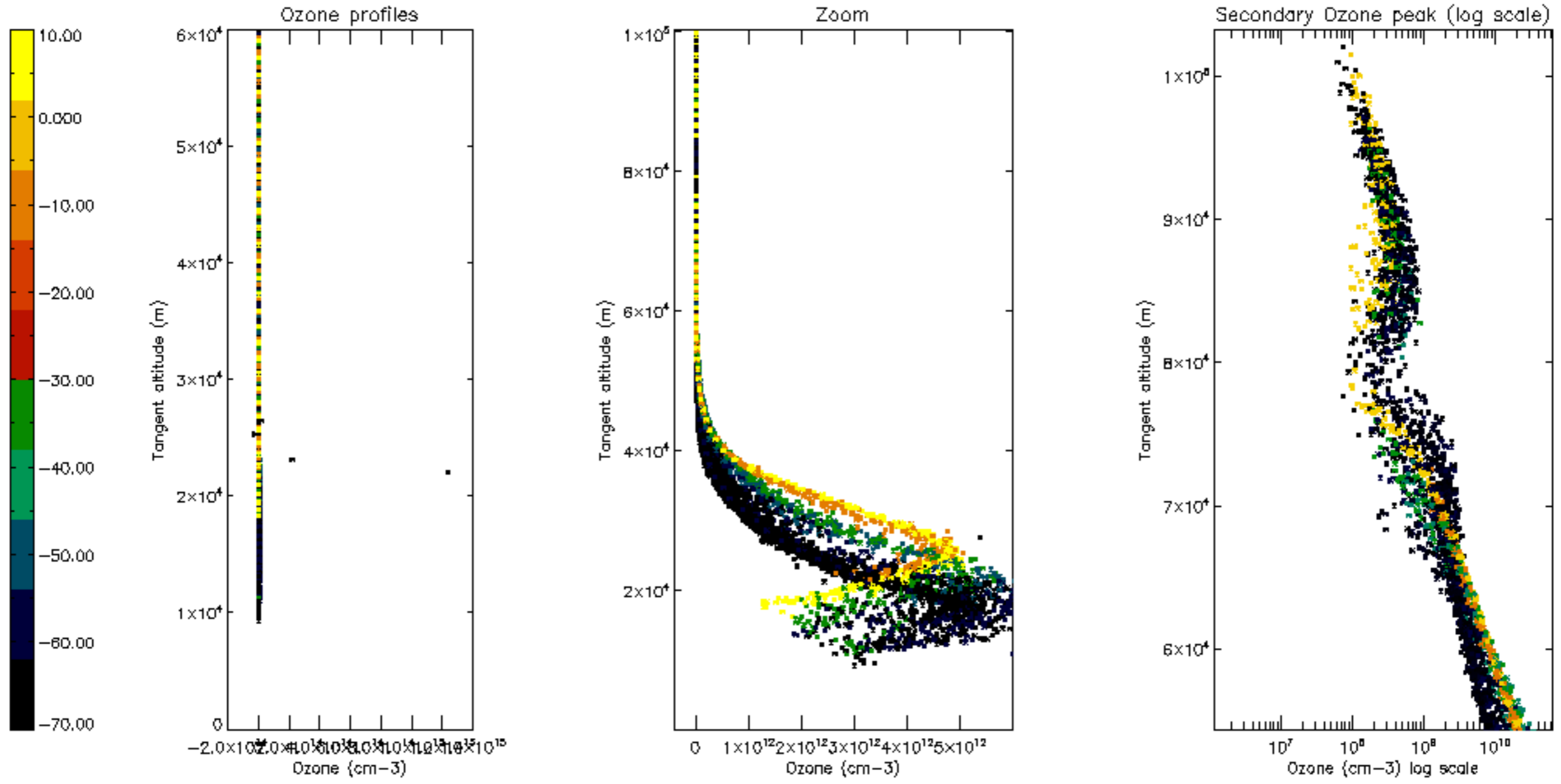


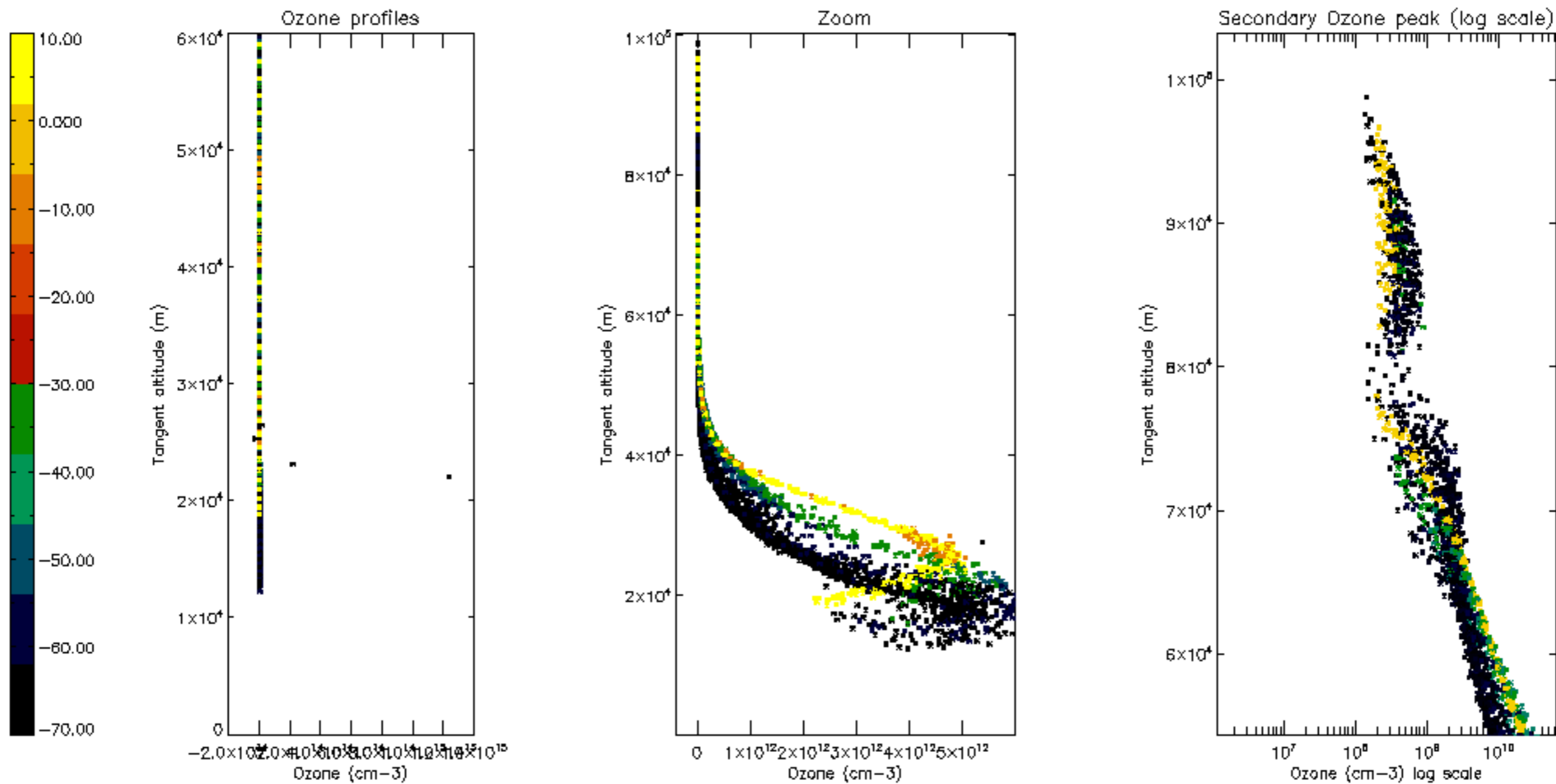
Percentage of saturation errors per profile

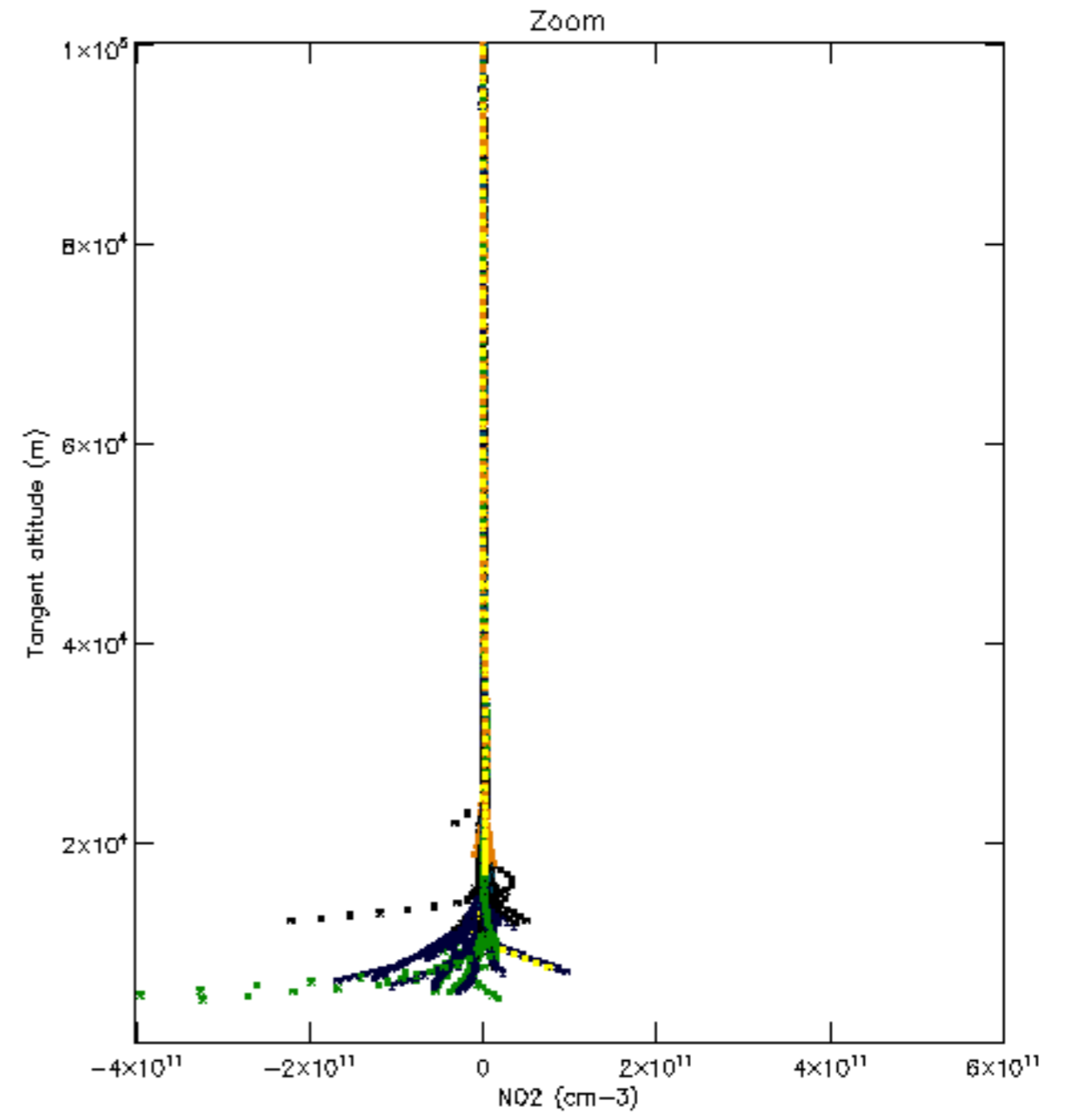
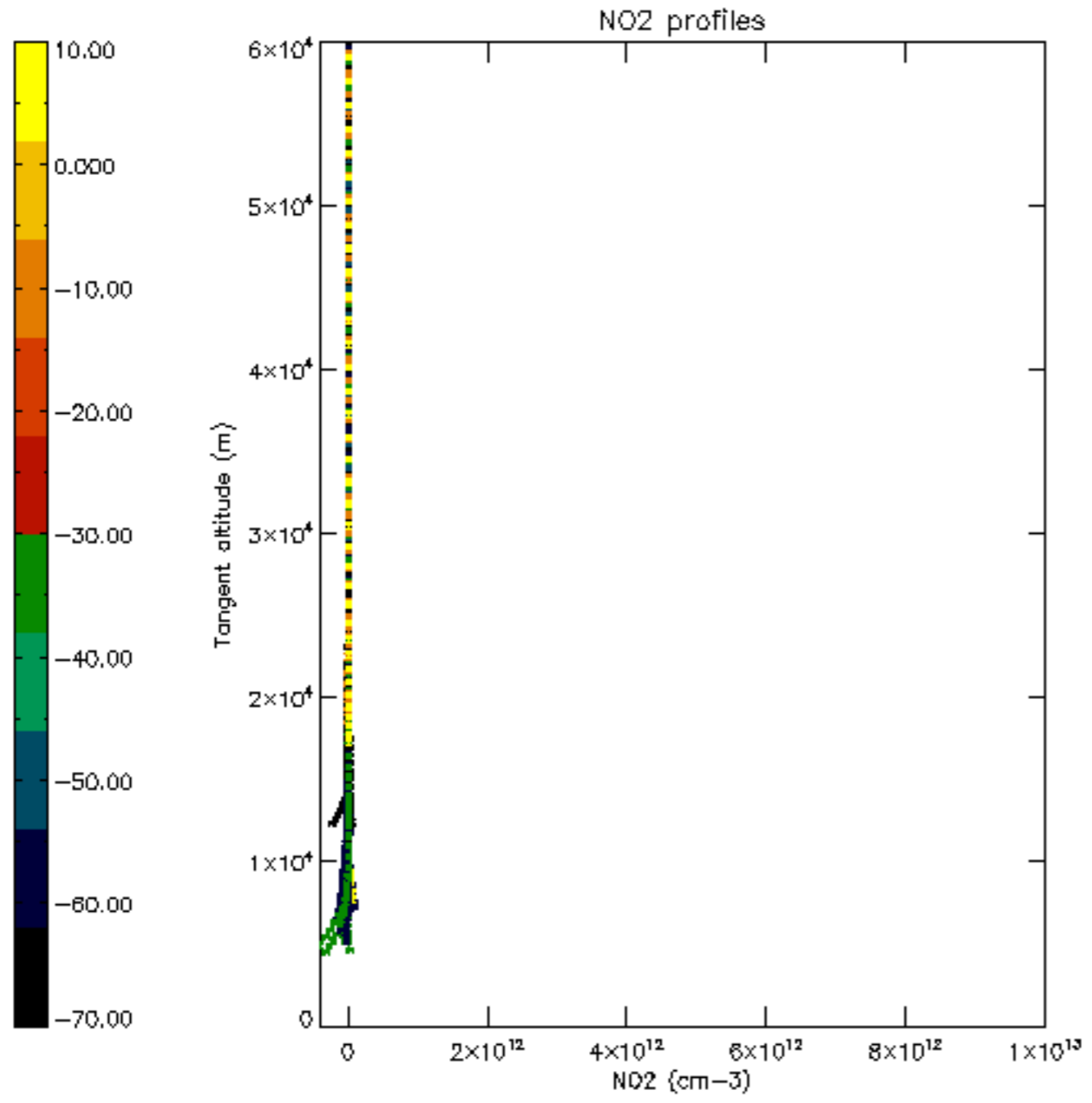


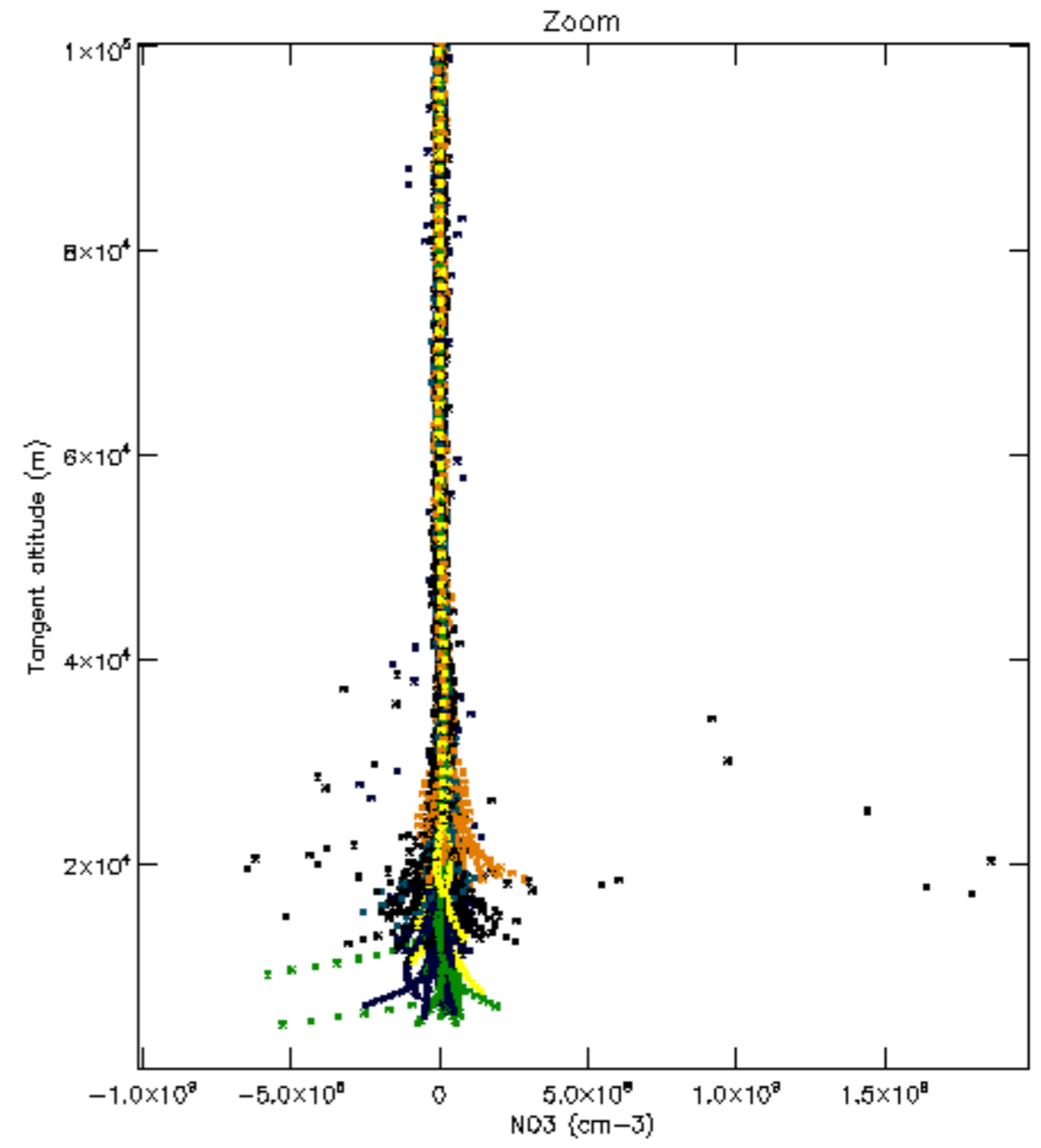
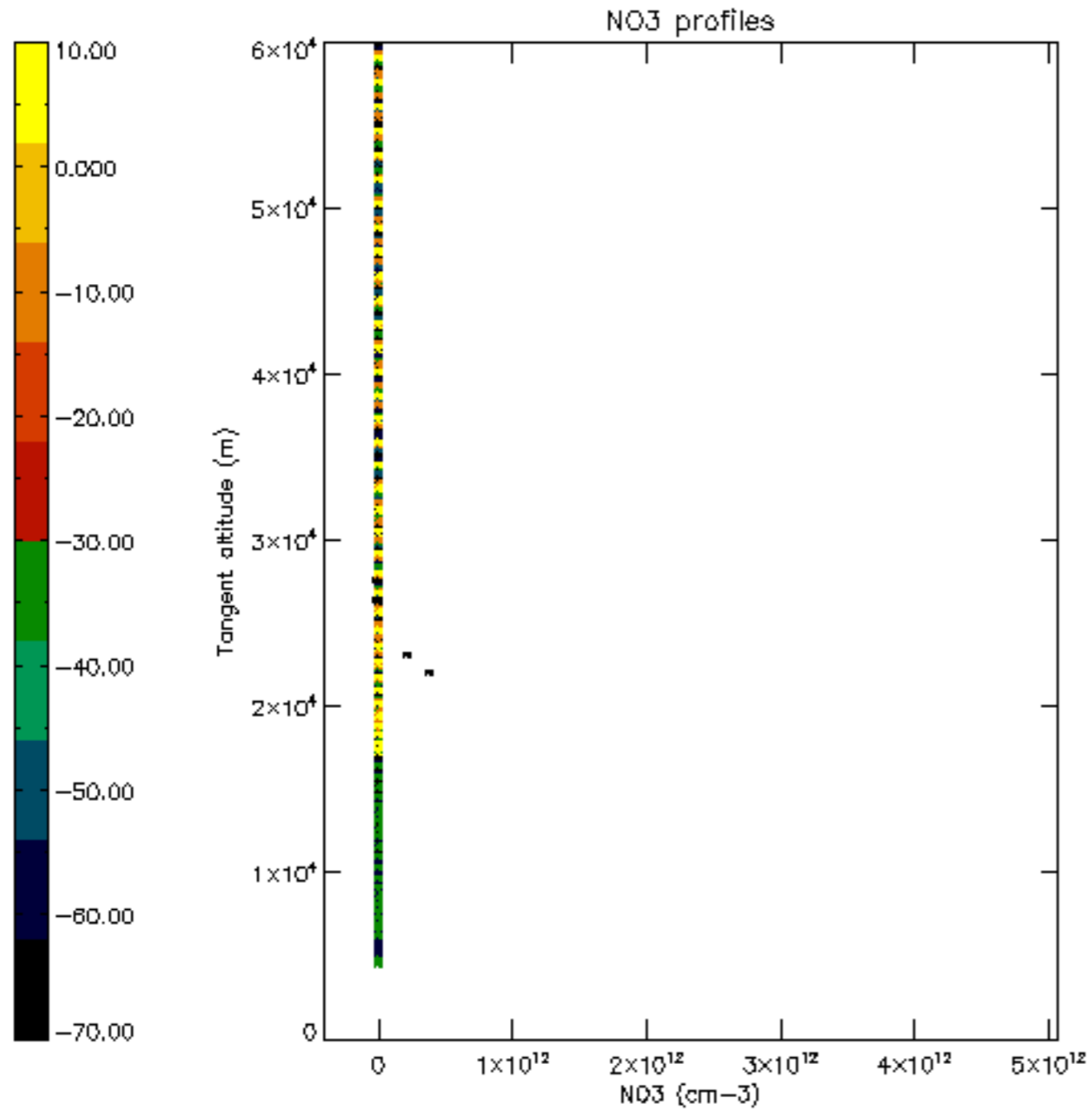


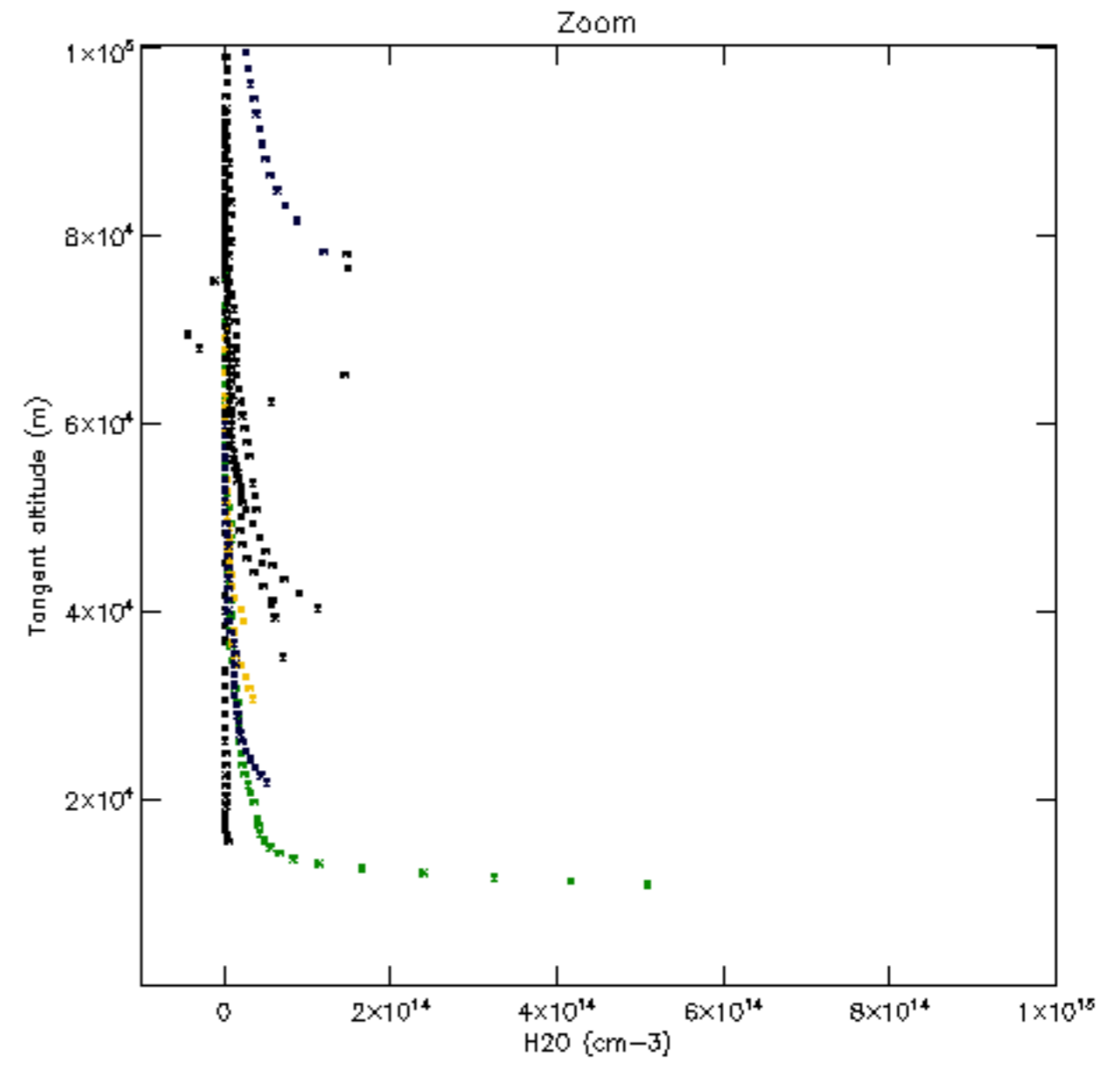
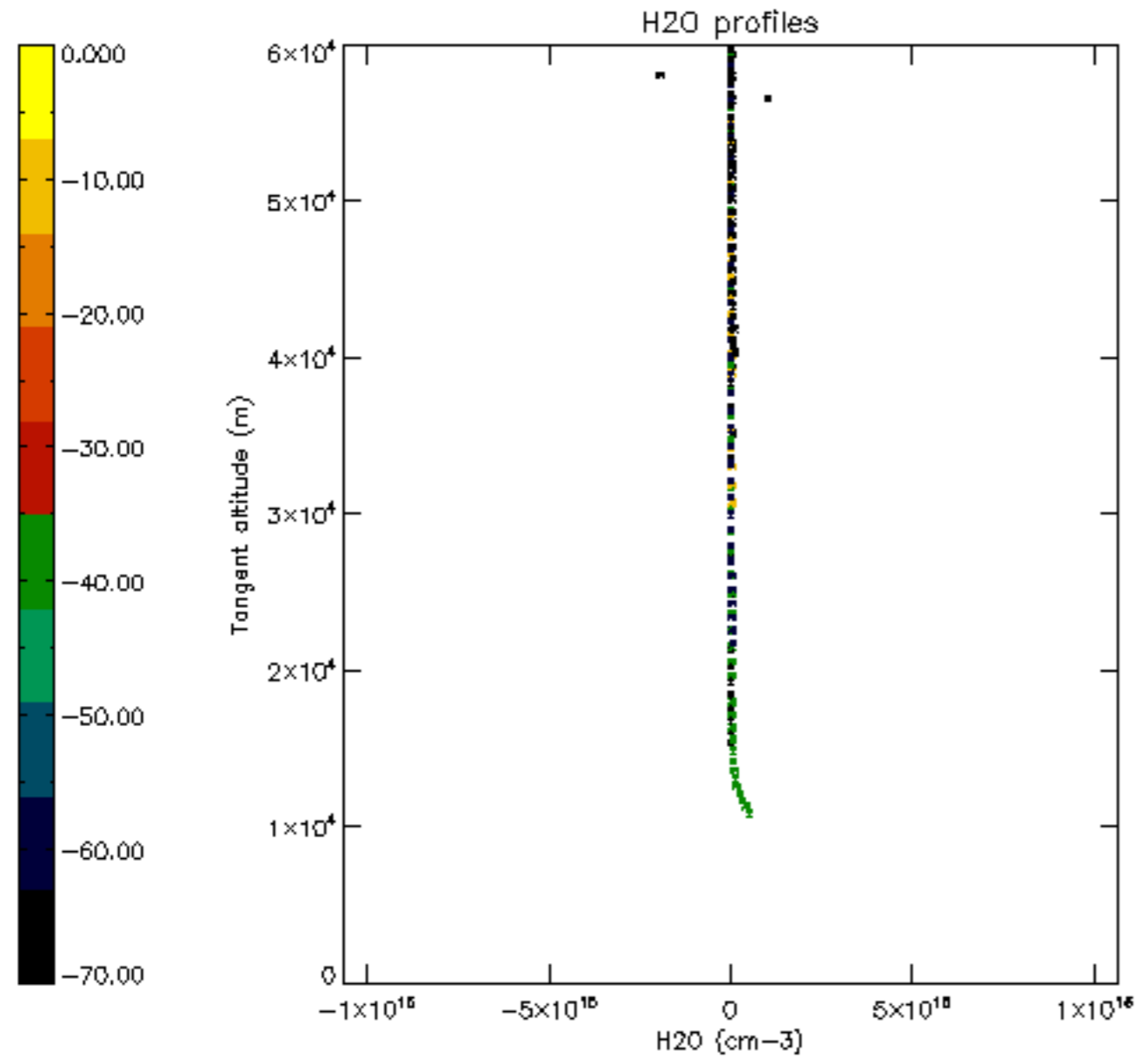


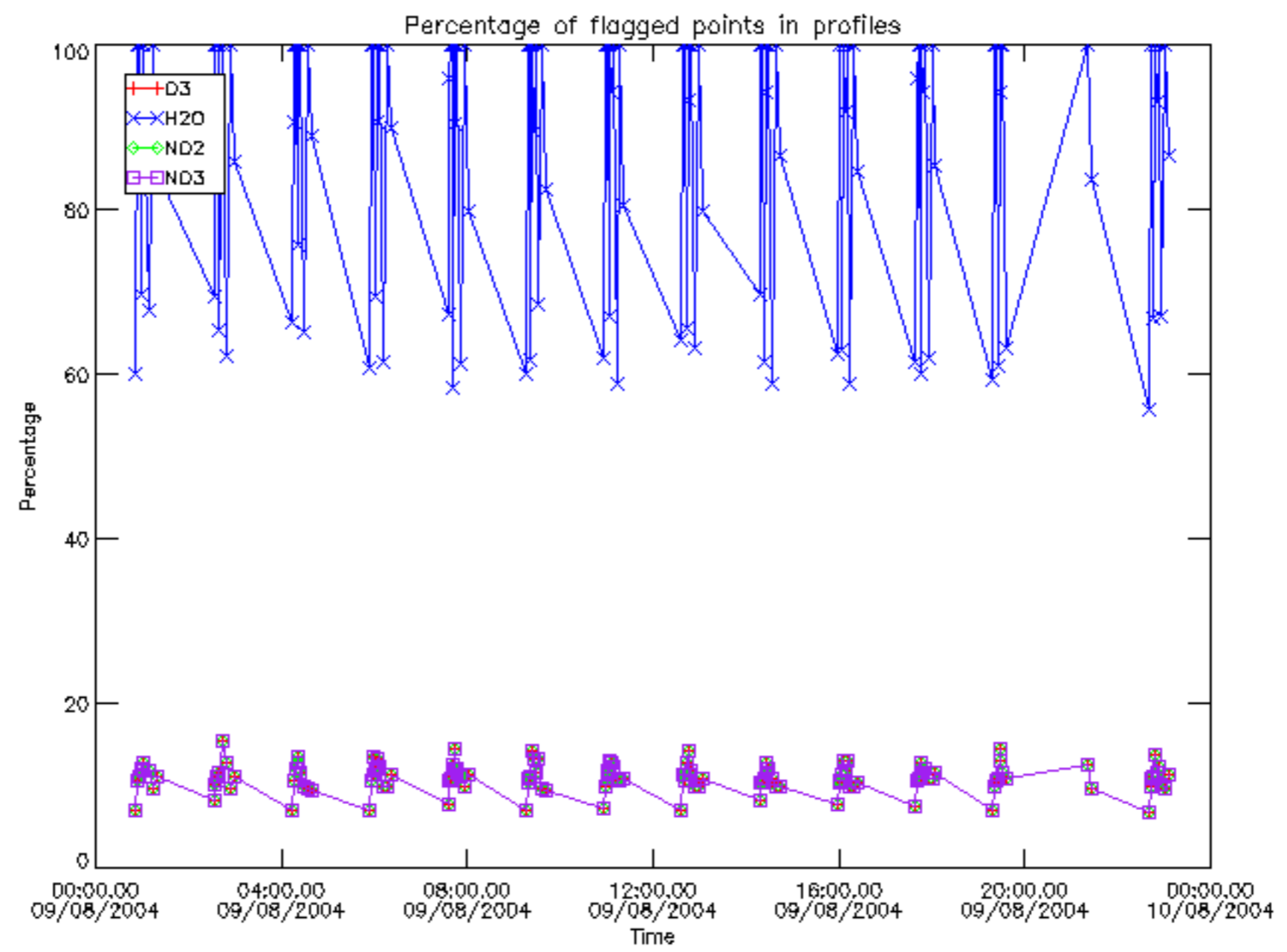




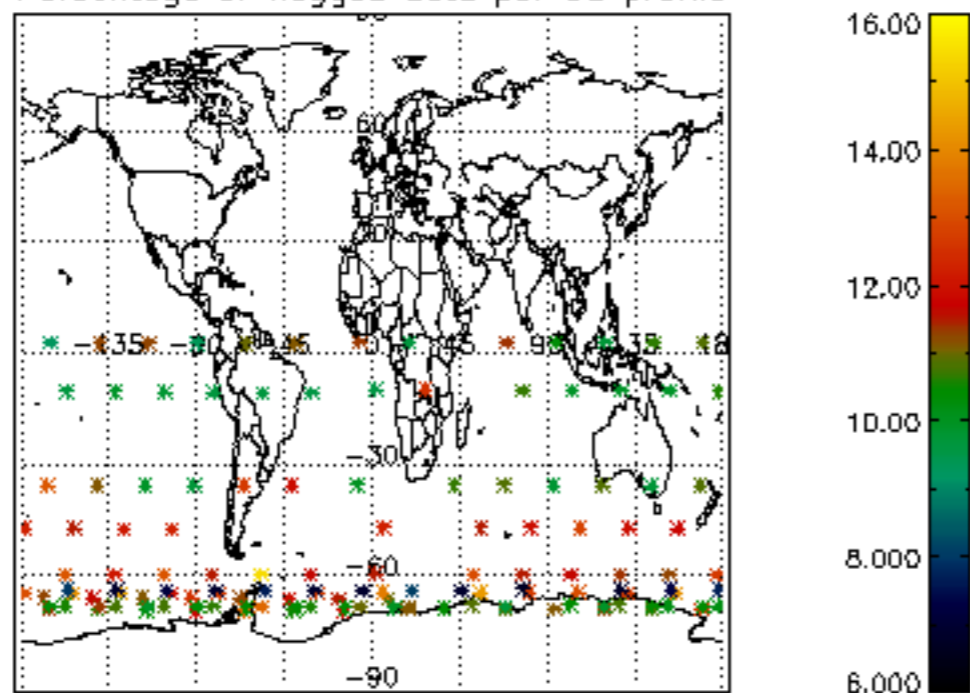




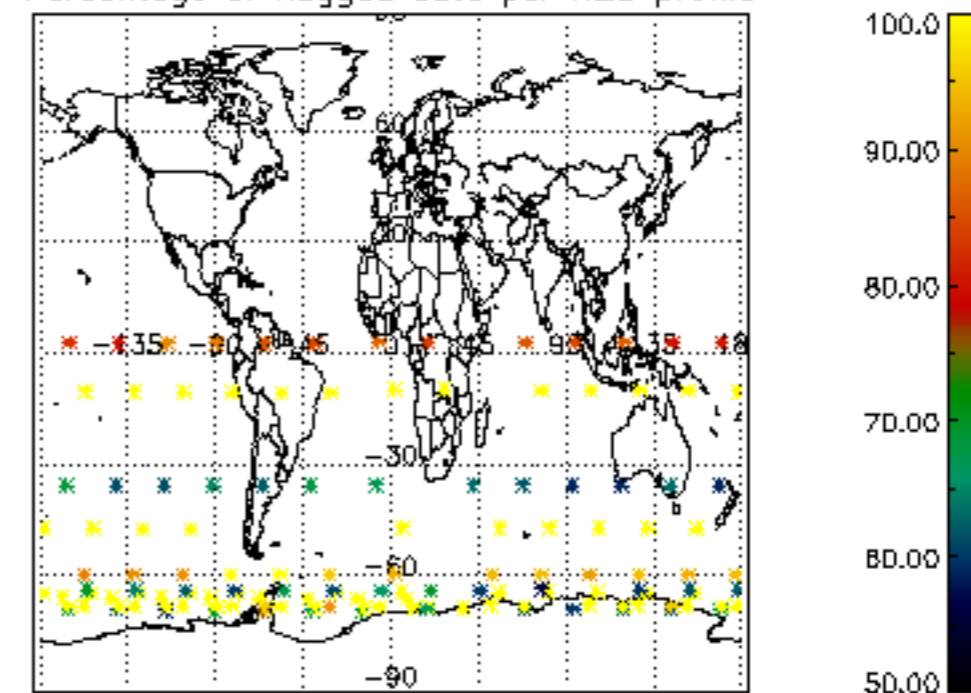




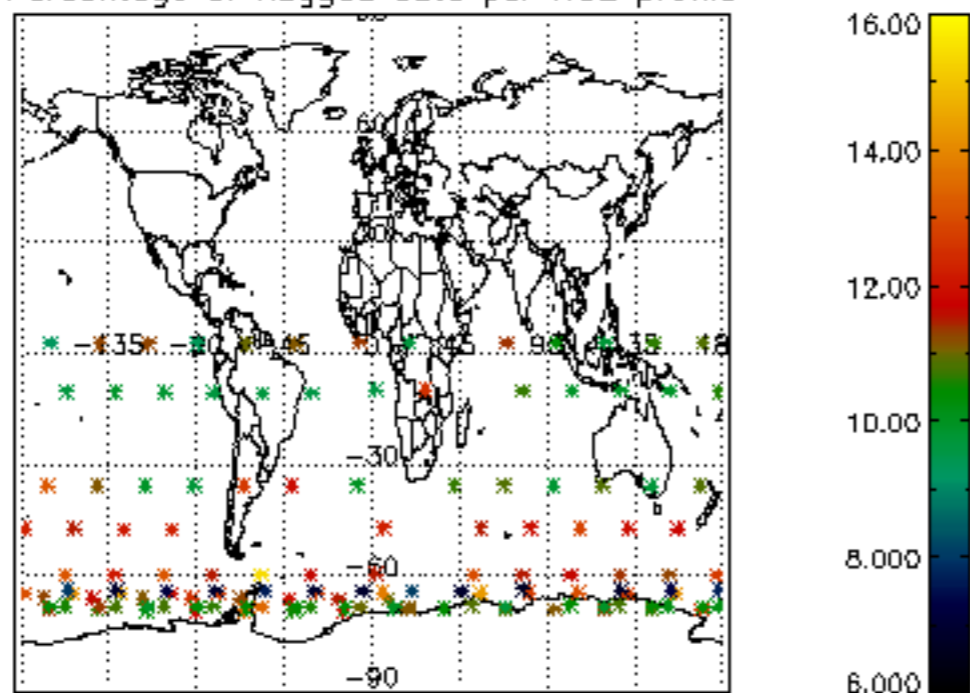
Percentage of flagged data per D3 profile



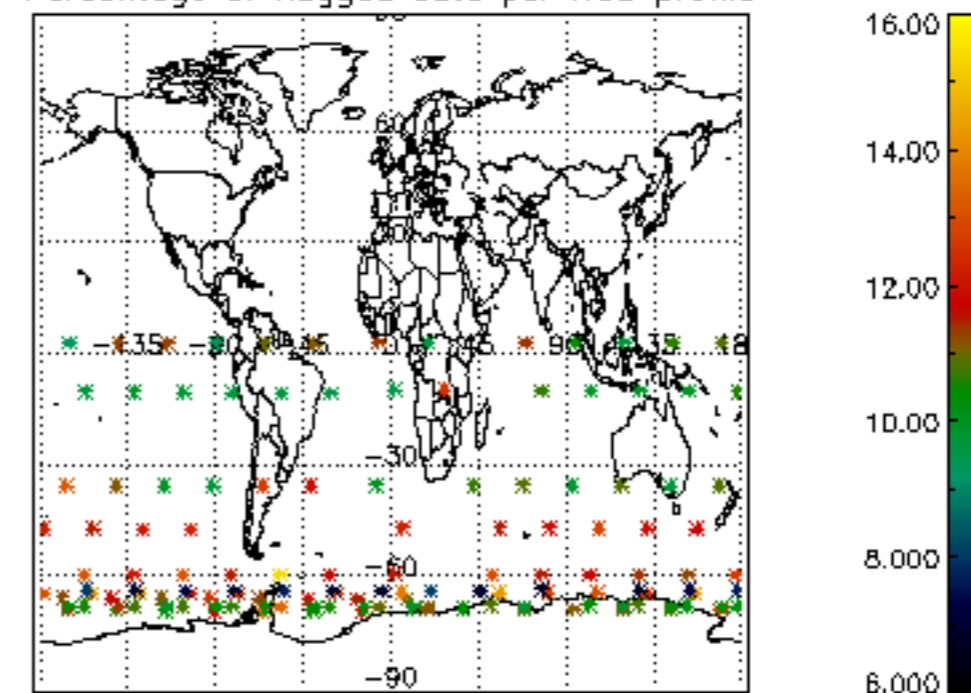
Percentage of flagged data per H2O profile

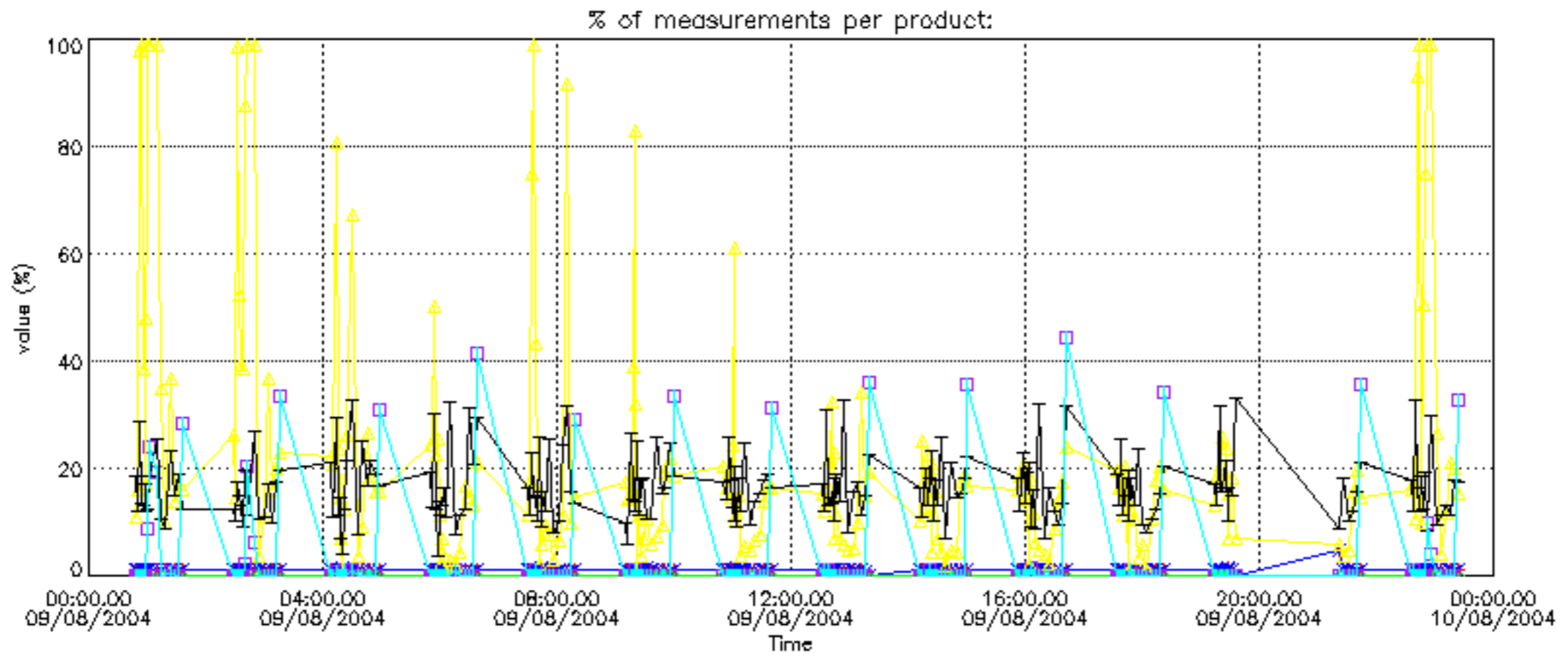


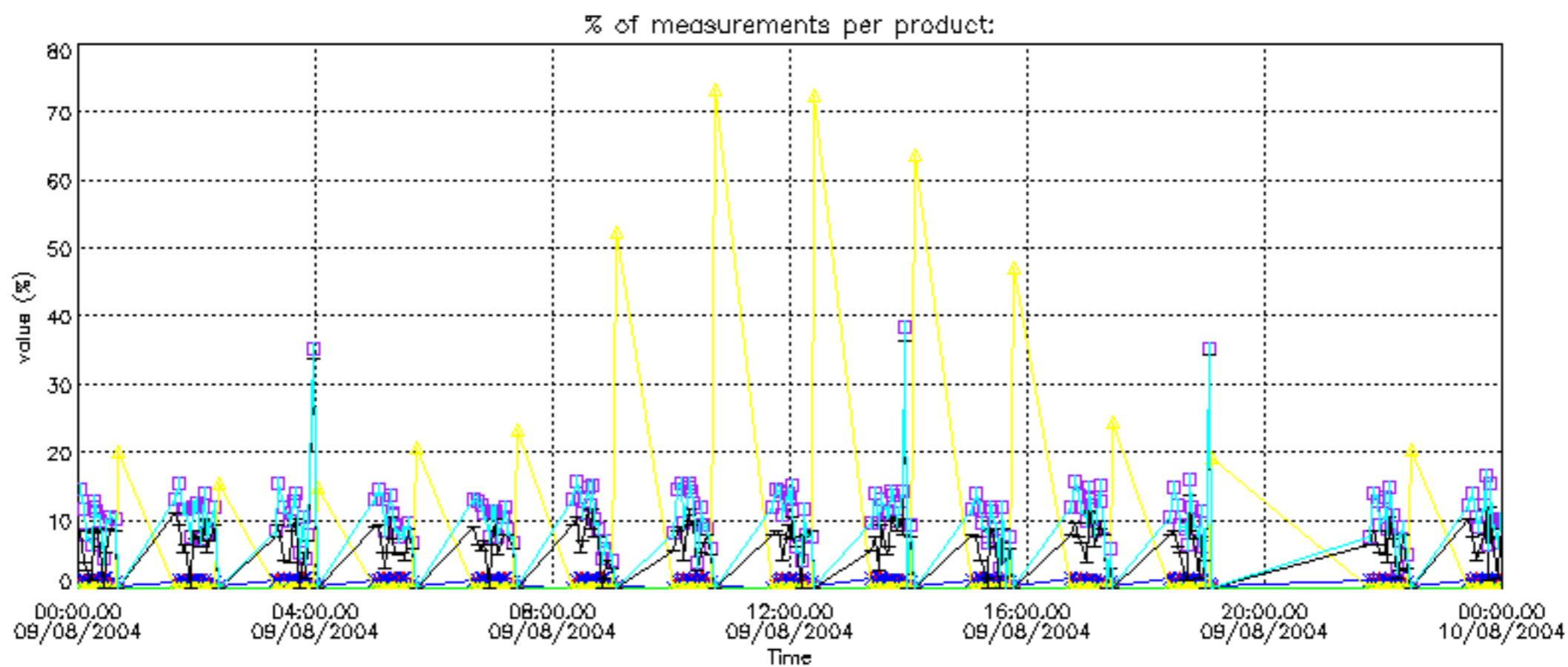
Percentage of flagged data per NO2 profile



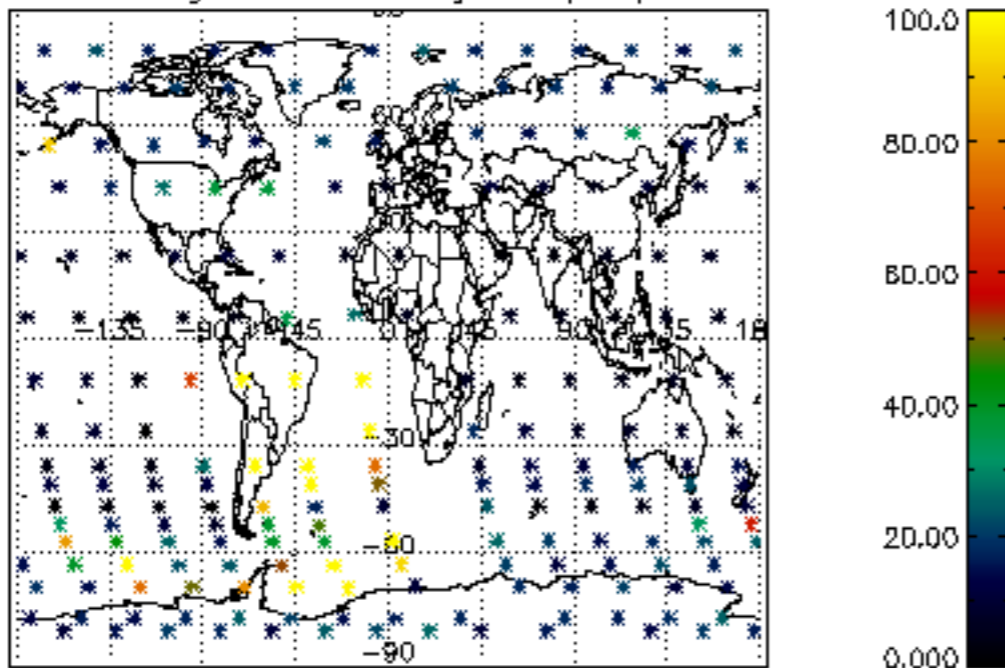
Percentage of flagged data per NO3 profile



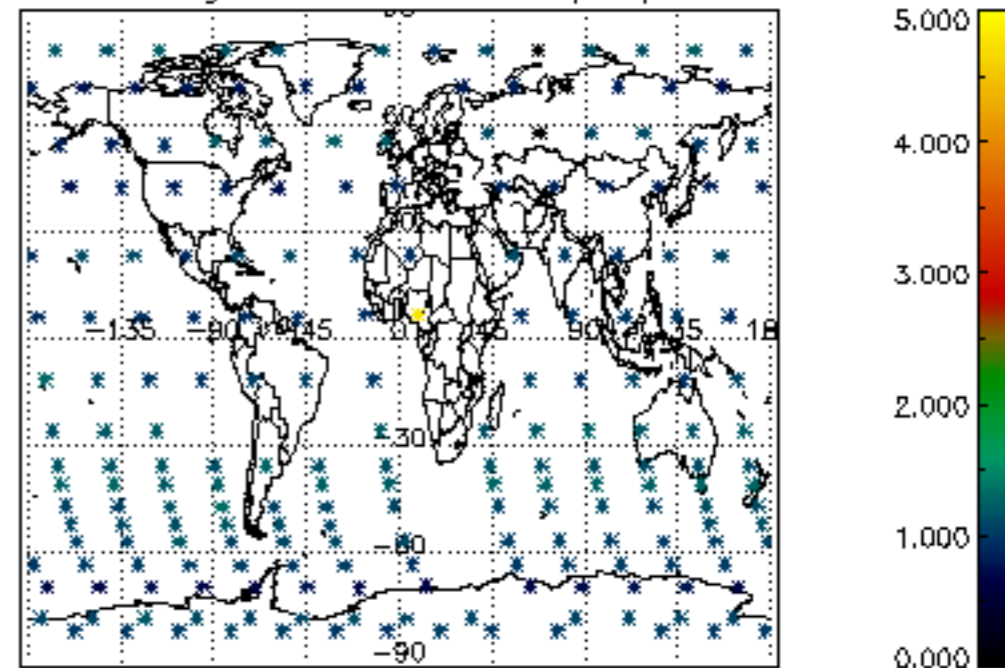




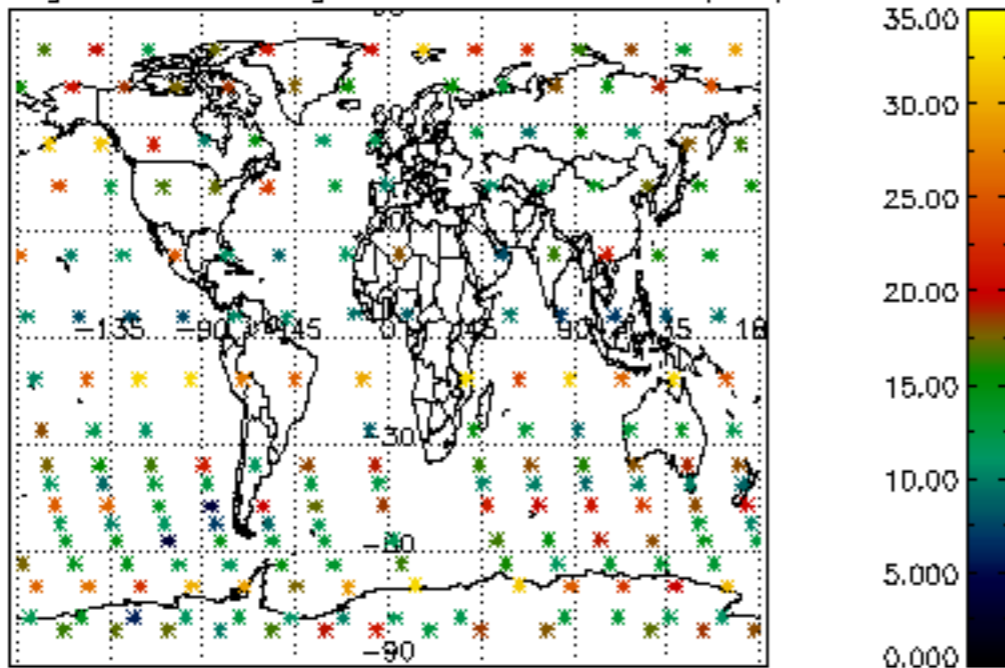
Percentage of cosmic ray hits per profile



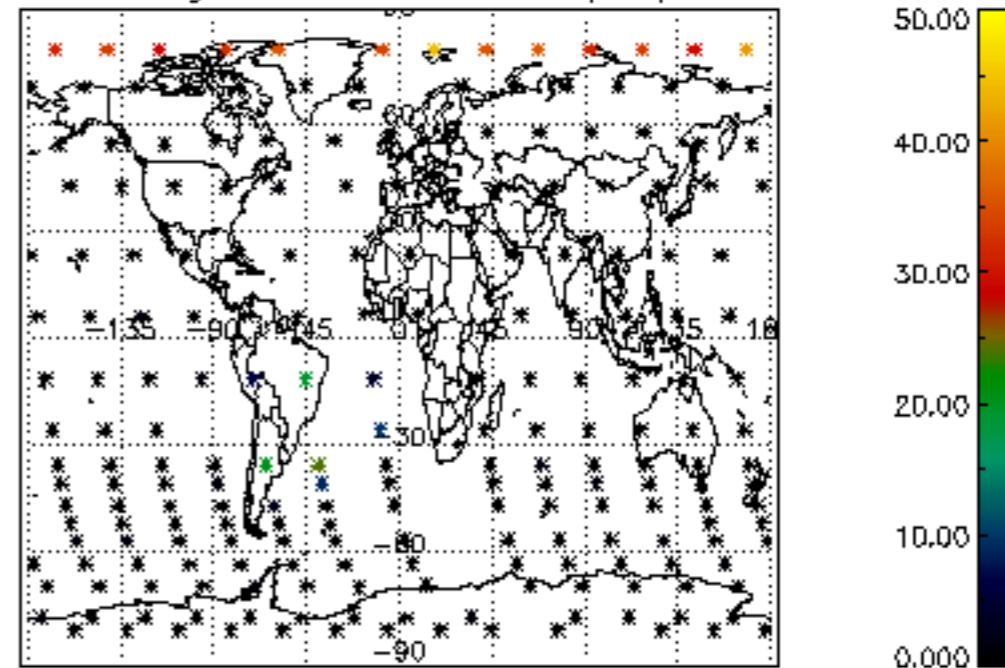
Percentage of datation errors per profile



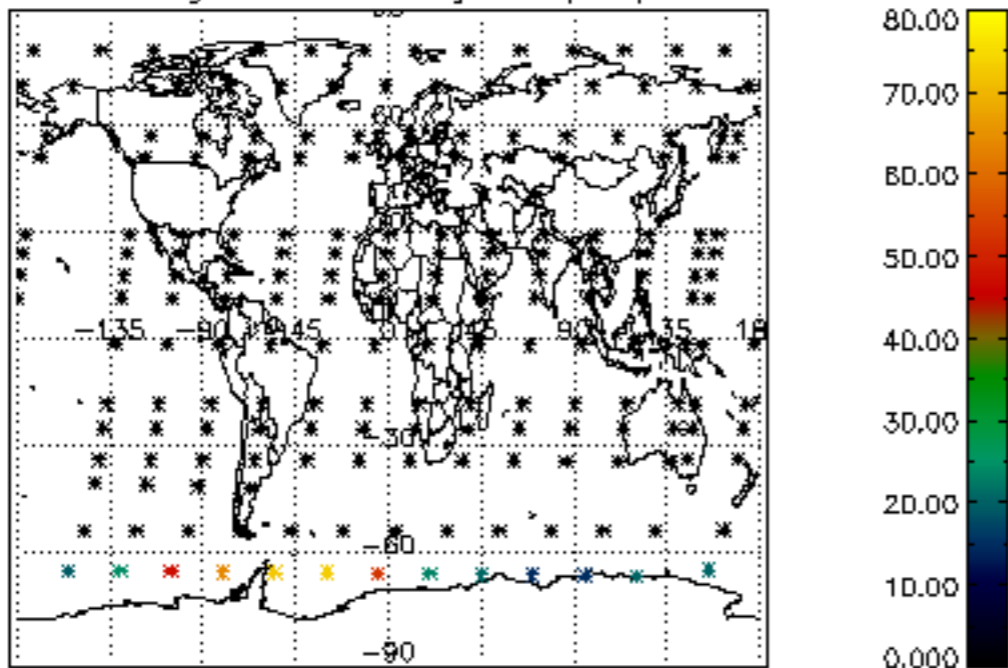
Percentage of star falling outside central band per profile



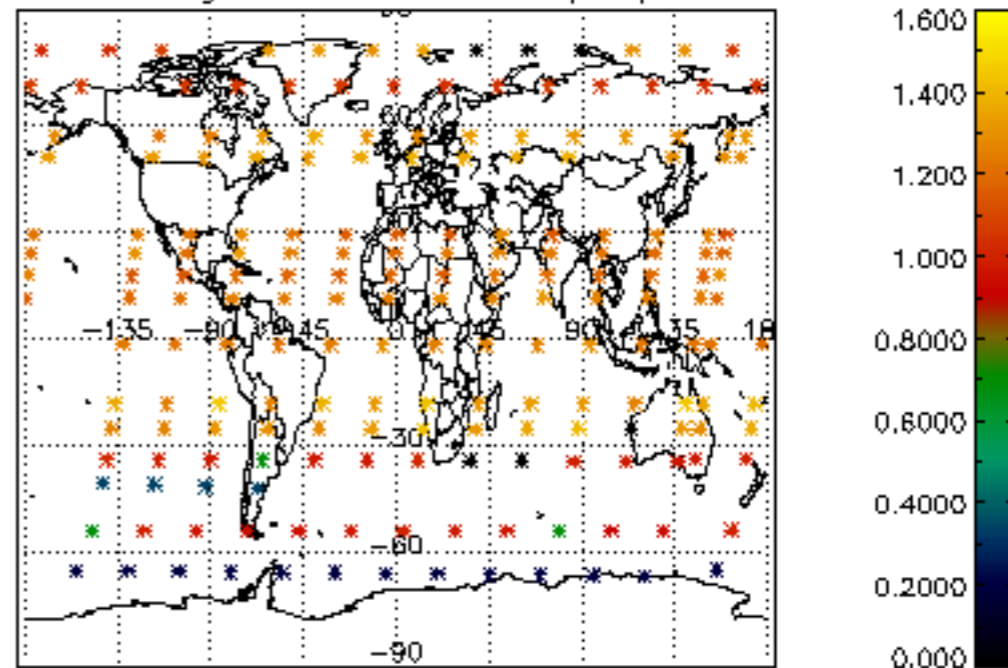
Percentage of saturation errors per profile



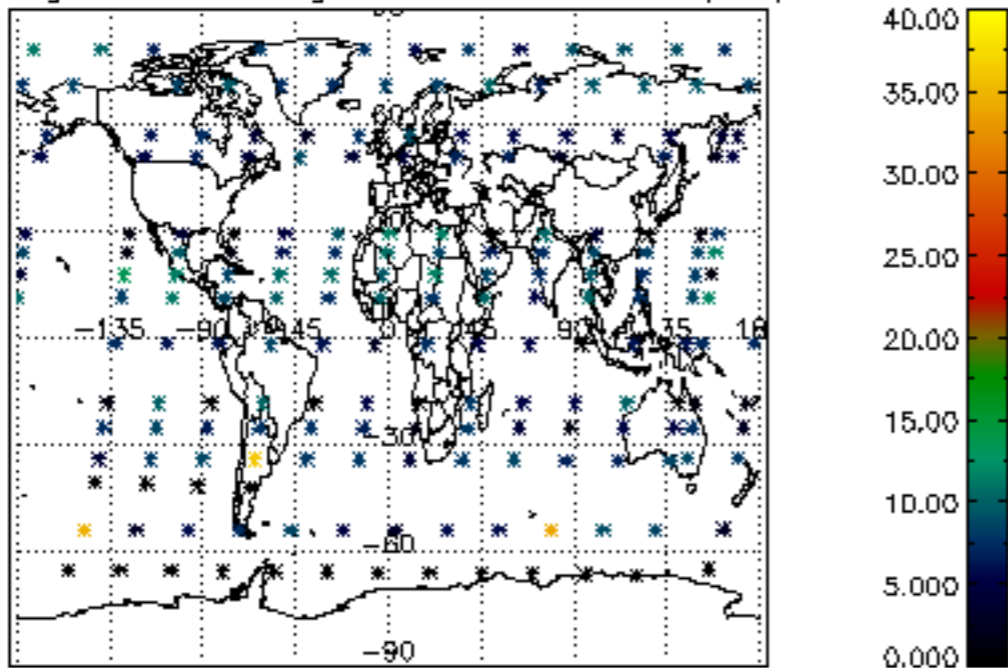
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

