

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	22APR2013 22:22:34
Data source version	GOMOS/6.01
Start time of products	28-07-2007 (28JUL2007 00:00:00)
Stop time of products	29-07-2007 (29JUL2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	251
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

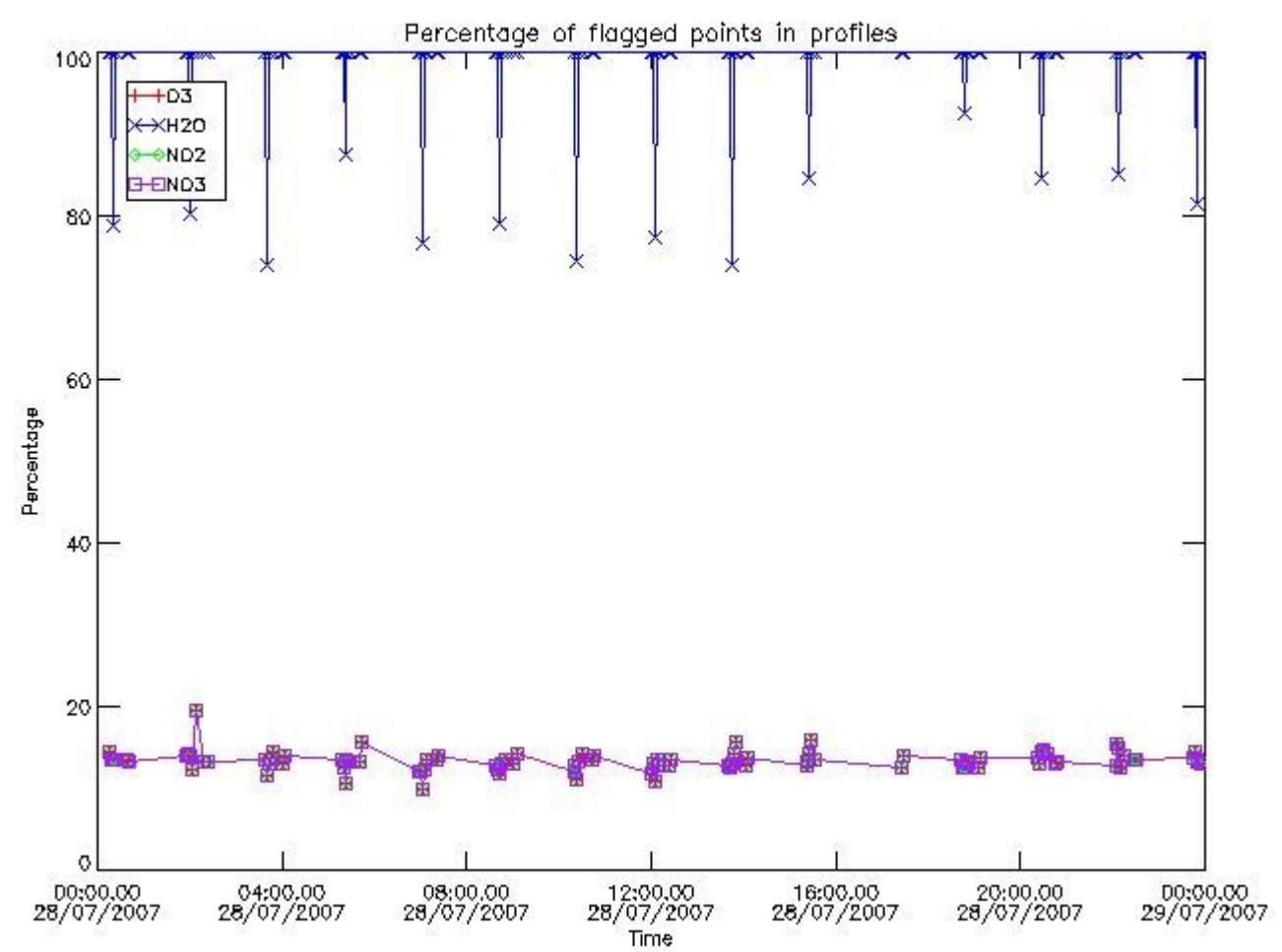
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070728_000918_000000402060_00159_28269_3103.N1	28-JUL-2007 00:09:18	Bright	40.000	28	12Bet Tau	1.6500	15200.	80	28269	No
2	GOM_NL__2PRFIN20070728_001543_000000392060_00159_28269_3104.N1	28-JUL-2007 00:15:43	Dark	38.500	27	24Gam Ori	1.6360	26000.	77	28269	No
3	GOM_NL__2PRFIN20070728_001738_000000382060_00159_28269_3105.N1	28-JUL-2007 00:17:38	Dark	37.500	30	46Eps Ori	1.6940	30000.	75	28269	No
4	GOM_NL__2PRFIN20070728_002000_000000382060_00159_28269_3106.N1	28-JUL-2007 00:20:00	Dark	38.000	7	19Bet Ori	0.10000	14000.	76	28269	No
5	GOM_NL__2PRFIN20070728_002216_000000382060_00159_28269_3107.N1	28-JUL-2007 00:22:16	Dark	38.000	101	11Alp Lep	2.5820	7000.0	76	28269	No
6	GOM_NL__2PRFIN20070728_003844_000000382060_00160_28270_3102.N1	28-JUL-2007 00:38:44	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	28270	No
7	GOM_NL__2PRFIN20070728_004139_000000392060_00160_28270_3103.N1	28-JUL-2007 00:41:39	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	28270	No
8	GOM_NL__2PRFIN20070728_004619_000000412060_00160_28270_3104.N1	28-JUL-2007 00:46:19	Straylight	40.500	148	Alp Tuc	2.8780	4100.0	81	28270	No
9	GOM_NL__2PRFIN20070728_004943_000000422060_00160_28270_3105.N1	28-JUL-2007 00:49:43	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	28270	No
10	GOM_NL__2PRFIN20070728_005812_000000412060_00160_28270_3106.N1	28-JUL-2007 00:58:12	Bright	40.500	103	38Zet Sgr	2.6000	9700.0	81	28270	No
11	GOM_NL__2PRFIN20070728_010035_000000372060_00160_28270_3107.N1	28-JUL-2007 01:00:35	Bright	36.500	155	41Pi Sgr	2.9000	6600.0	73	28270	No
12	GOM_NL__2PRFIN20070728_011033_000000352060_00160_28270_3108.N1	28-JUL-2007 01:10:33	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	28270	No
13	GOM_NL__2PRFIN20070728_011737_000000402060_00160_28270_3109.N1	28-JUL-2007 01:17:37	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	28270	No
14	GOM_NL__2PRFIN20070728_012118_000000372060_00160_28270_3110.N1	28-JUL-2007 01:21:18	Bright	36.500	69	33Gam Dra	2.2310	3800.0	73	28270	No
15	GOM_NL__2PRFIN20070728_012507_000000372060_00160_28270_3111.N1	28-JUL-2007 01:25:07	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	28270	No
16	GOM_NL__2PRFIN20070728_012919_000000322060_00160_28270_3112.N1	28-JUL-2007 01:29:19	Bright	32.000	60	7Bet UMi	2.0810	3950.0	64	28270	No
17	GOM_NL__2PRFIN20070728_013211_000000332060_00160_28270_3113.N1	28-JUL-2007 01:32:11	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28270	No
18	GOM_NL__2PRFIN20070728_014954_000000392060_00160_28270_3114.N1	28-JUL-2007 01:49:54	Bright	39.000	28	12Bet Tau	1.6500	15200.	78	28270	No
19	GOM_NL__2PRFIN20070728_015620_000000372060_00160_28270_3115.N1	28-JUL-2007 01:56:20	Dark	36.500	27	24Gam Ori	1.6360	26000.	73	28270	No
20	GOM_NL__2PRFIN20070728_015814_000000362060_00160_28270_3116.N1	28-JUL-2007 01:58:14	Dark	36.000	30	46Eps Ori	1.6940	30000.	72	28270	No
21	GOM_NL__2PRFIN20070728_020037_000000442060_00160_28270_3117.N1	28-JUL-2007 02:00:37	Dark	43.500	7	19Bet Ori	0.10000	14000.	87	28270	No
22	GOM_NL__2PRFIN20070728_020252_000000422060_00160_28270_3118.N1	28-JUL-2007 02:02:52	Dark	41.500	101	11Alp Lep	2.5820	7000.0	83	28270	No
23	GOM_NL__2PRFIN20070728_020708_000000392060_00160_28270_3119.N1	28-JUL-2007 02:07:08	Dark	39.000	108	Alp Col	2.6520	15200.	78	28270	No
24	GOM_NL__2PRFIN20070728_021921_000000392060_00161_28271_3124.N1	28-JUL-2007 02:19:21	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	28271	No
25	GOM_NL__2PRFIN20070728_022215_000000392060_00161_28271_3125.N1	28-JUL-2007 02:22:15	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	28271	No
26	GOM_NL__2PRFIN20070728_022656_000000422060_00161_28271_3126.N1	28-JUL-2007 02:26:56	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	28271	No
27	GOM_NL__2PRFIN20070728_023020_000000402060_00161_28271_3127.N1	28-JUL-2007 02:30:20	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	28271	No
28	GOM_NL__2PRFIN20070728_023848_000000432060_00161_28271_3128.N1	28-JUL-2007 02:38:48	Bright	42.500	103	38Zet Sgr	2.6000	9700.0	85	28271	No
29	GOM_NL__2PRFIN20070728_024112_000000382060_00161_28271_3129.N1	28-JUL-2007 02:41:12	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	28271	No
30	GOM_NL__2PRFIN20070728_025109_000000352060_00161_28271_3130.N1	28-JUL-2007 02:51:09	Bright	34.500	168	17Zet Aql	2.9860	11000.	69	28271	No
31	GOM_NL__2PRFIN20070728_025813_000000382060_00161_28271_3131.N1	28-JUL-2007 02:58:13	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	28271	No
32	GOM_NL__2PRFIN20070728_030154_000000332060_00161_28271_3132.N1	28-JUL-2007 03:01:54	Bright	33.000	69	33Gam Dra	2.2310	3800.0	66	28271	No
33	GOM_NL__2PRFIN20070728_030543_000000372060_00161_28271_3133.N1	28-JUL-2007 03:05:43	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	28271	No
34	GOM_NL__2PRFIN20070728_030955_000000332060_00161_28271_3134.N1	28-JUL-2007 03:09:55	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	28271	No
35	GOM_NL__2PRFIN20070728_031247_000000332060_00161_28271_3135.N1	28-JUL-2007 03:12:47	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28271	No
36	GOM_NL__2PRFIN20070728_033030_000000402060_00161_28271_3136.N1	28-JUL-2007 03:30:30	Bright	39.500	28	12Bet Tau	1.6500	15200.	79	28271	No
37	GOM_NL__2PRFIN20070728_033656_000000382060_00161_28271_3137.N1	28-JUL-2007 03:36:56	Dark	37.500	27	24Gam Ori	1.6360	26000.	75	28271	No
38	GOM_NL__2PRFIN20070728_033851_000000382060_00161_28271_3138.N1	28-JUL-2007 03:38:51	Dark	37.500	30	46Eps Ori	1.6940	30000.	75	28271	No
39	GOM_NL__2PRFIN20070728_034113_000000452060_00161_28271_3139.N1	28-JUL-2007 03:41:13	Dark	44.500	7	19Bet Ori	0.10000	14000.	89	28271	No
40	GOM_NL__2PRFIN20070728_034328_000000402060_00161_28271_3140.N1	28-JUL-2007 03:43:28	Dark	39.500	101	11Alp Lep	2.5820	7000.0	79	28271	No
41	GOM_NL__2PRFIN20070728_034744_000000392060_00161_28271_3141.N1	28-JUL-2007 03:47:44	Dark	38.500	108	Alp Col	2.6520	15200.	77	28271	No
42	GOM_NL__2PRFIN20070728_035957_000000392060_00162_28272_3140.N1	28-JUL-2007 03:59:57	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	28272	No

220	GOM_NL__2PRFIN20070728_212831_000000382060_00172_28282_3392.N1	28-JUL-2007 21:28:31	Bright	38.000	69	33Gam Dra	2.2310	3800.0	76	28282	No
221	GOM_NL__2PRFIN20070728_213222_000000362060_00172_28282_3393.N1	28-JUL-2007 21:32:22	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	28282	No
222	GOM_NL__2PRFIN20070728_213633_000000352060_00172_28282_3394.N1	28-JUL-2007 21:36:33	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	28282	No
223	GOM_NL__2PRFIN20070728_213923_000000362060_00172_28282_3395.N1	28-JUL-2007 21:39:23	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	28282	No
224	GOM_NL__2PRFIN20070728_215209_000000332060_00172_28282_3396.N1	28-JUL-2007 21:52:09	Bright	33.000	42	34Bet Aur	1.9000	10200.	66	28282	No
225	GOM_NL__2PRFIN20070728_215707_000000412060_00172_28282_3397.N1	28-JUL-2007 21:57:07	Bright	40.500	28	12Bet Tau	1.6500	15200.	81	28282	No
226	GOM_NL__2PRFIN20070728_215910_000000362060_00172_28282_3398.N1	28-JUL-2007 21:59:10	Tw_i_and_stray	35.500	176	23Zet Tau	3.0200	22000.	71	28282	No
227	GOM_NL__2PRFIN20070728_220335_000000402060_00172_28282_3399.N1	28-JUL-2007 22:03:35	Dark	40.000	27	24Gam Ori	1.6360	26000.	80	28282	No
228	GOM_NL__2PRFIN20070728_220529_000000372060_00172_28282_3400.N1	28-JUL-2007 22:05:29	Dark	36.500	30	46Eps Ori	1.6940	30000.	73	28282	No
229	GOM_NL__2PRFIN20070728_220753_000000382060_00172_28282_3401.N1	28-JUL-2007 22:07:53	Dark	37.500	7	19Bet Ori	0.10000	14000.	75	28282	No
230	GOM_NL__2PRFIN20070728_221007_000000412060_00172_28282_3402.N1	28-JUL-2007 22:10:07	Dark	41.000	101	11Alp Lep	2.5820	7000.0	82	28282	No
231	GOM_NL__2PRFIN20070728_221423_000000372060_00172_28282_3403.N1	28-JUL-2007 22:14:23	Dark	36.500	108	Alp Col	2.6520	15200.	73	28282	No
232	GOM_NL__2PRFIN20070728_222639_000000382060_00173_28283_3394.N1	28-JUL-2007 22:26:39	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	28283	No
233	GOM_NL__2PRFIN20070728_222930_000000382060_00173_28283_3395.N1	28-JUL-2007 22:29:30	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	28283	No
234	GOM_NL__2PRFIN20070728_223412_000000432060_00173_28283_3396.N1	28-JUL-2007 22:34:12	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	28283	No
235	GOM_NL__2PRFIN20070728_223734_000000382060_00173_28283_3397.N1	28-JUL-2007 22:37:34	Straylight	37.500	45	Alp Pav	1.9400	26000.	75	28283	No
236	GOM_NL__2PRFIN20070728_224601_000000472060_00173_28283_3398.N1	28-JUL-2007 22:46:01	Bright	47.000	103	38Zet Sgr	2.6000	9700.0	94	28283	No
237	GOM_NL__2PRFIN20070728_224825_000000372060_00173_28283_3399.N1	28-JUL-2007 22:48:25	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	28283	No
238	GOM_NL__2PRFIN20070728_225821_000000362060_00173_28283_3400.N1	28-JUL-2007 22:58:21	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	28283	No
239	GOM_NL__2PRFIN20070728_230525_000000352060_00173_28283_3401.N1	28-JUL-2007 23:05:25	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	28283	No
240	GOM_NL__2PRFIN20070728_230907_000000352060_00173_28283_3402.N1	28-JUL-2007 23:09:07	Bright	34.500	69	33Gam Dra	2.2310	3800.0	69	28283	No
241	GOM_NL__2PRFIN20070728_231258_000000372060_00173_28283_3403.N1	28-JUL-2007 23:12:58	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	28283	No
242	GOM_NL__2PRFIN20070728_231710_000000322060_00173_28283_3404.N1	28-JUL-2007 23:17:10	Bright	32.000	60	7Bet UMi	2.0810	3950.0	64	28283	No
243	GOM_NL__2PRFIN20070728_231959_000000332060_00173_28283_3405.N1	28-JUL-2007 23:19:59	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28283	No
244	GOM_NL__2PRFIN20070728_233245_000000342060_00173_28283_3406.N1	28-JUL-2007 23:32:45	Bright	33.500	42	34Bet Aur	1.9000	10200.	67	28283	No
245	GOM_NL__2PRFIN20070728_233744_000000412060_00173_28283_3407.N1	28-JUL-2007 23:37:44	Bright	41.000	28	12Bet Tau	1.6500	15200.	82	28283	No
246	GOM_NL__2PRFIN20070728_233946_000000382060_00173_28283_3408.N1	28-JUL-2007 23:39:46	Tw_i_and_stray	37.500	176	23Zet Tau	3.0200	22000.	75	28283	No
247	GOM_NL__2PRFIN20070728_234411_000000372060_00173_28283_3409.N1	28-JUL-2007 23:44:11	Dark	37.000	27	24Gam Ori	1.6360	26000.	74	28283	No
248	GOM_NL__2PRFIN20070728_234605_000000362060_00173_28283_3410.N1	28-JUL-2007 23:46:05	Dark	35.500	30	46Eps Ori	1.6940	30000.	71	28283	No
249	GOM_NL__2PRFIN20070728_234829_000000382060_00173_28283_3411.N1	28-JUL-2007 23:48:29	Dark	38.000	7	19Bet Ori	0.10000	14000.	76	28283	No
250	GOM_NL__2PRFIN20070728_235043_000000392060_00173_28283_3412.N1	28-JUL-2007 23:50:43	Dark	38.500	101	11Alp Lep	2.5820	7000.0	77	28283	No
251	GOM_NL__2PRFIN20070728_235459_000000402060_00173_28283_3413.N1	28-JUL-2007 23:54:59	Dark	39.500	108	Alp Col	2.6520	15200.	79	28283	No

3. Quality information per product

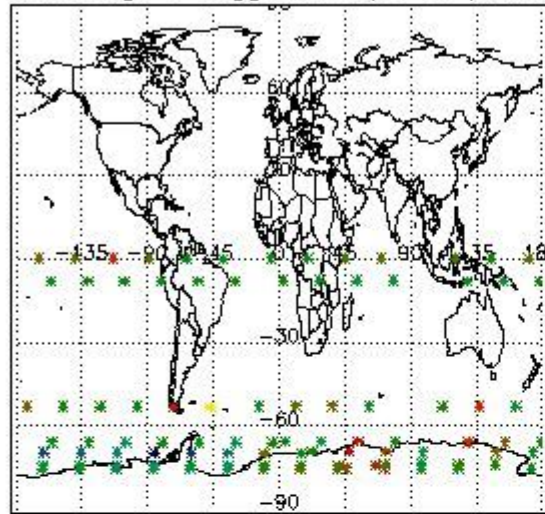
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

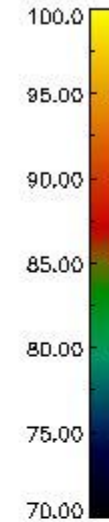
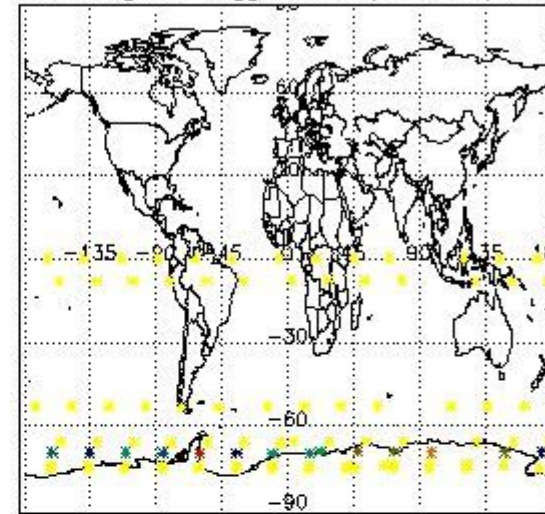


3.2 Plot quality information per product (world map)

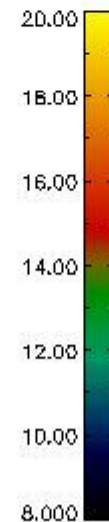
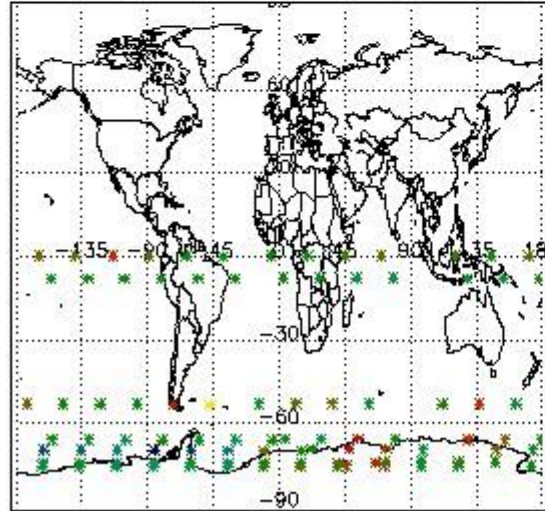
Percentage of flagged data per O3 profile



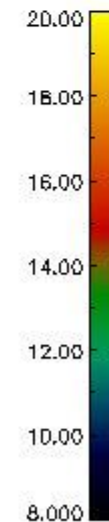
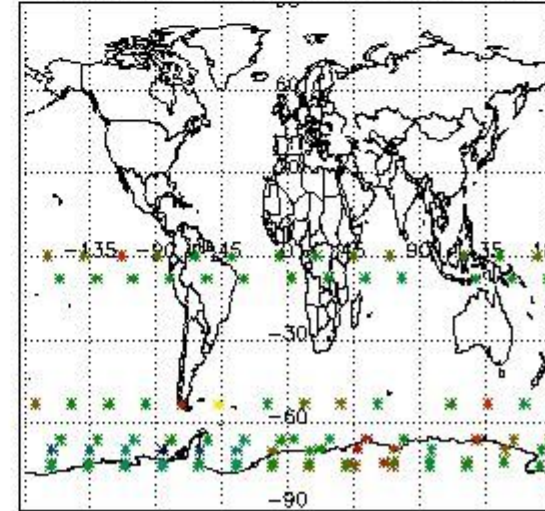
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

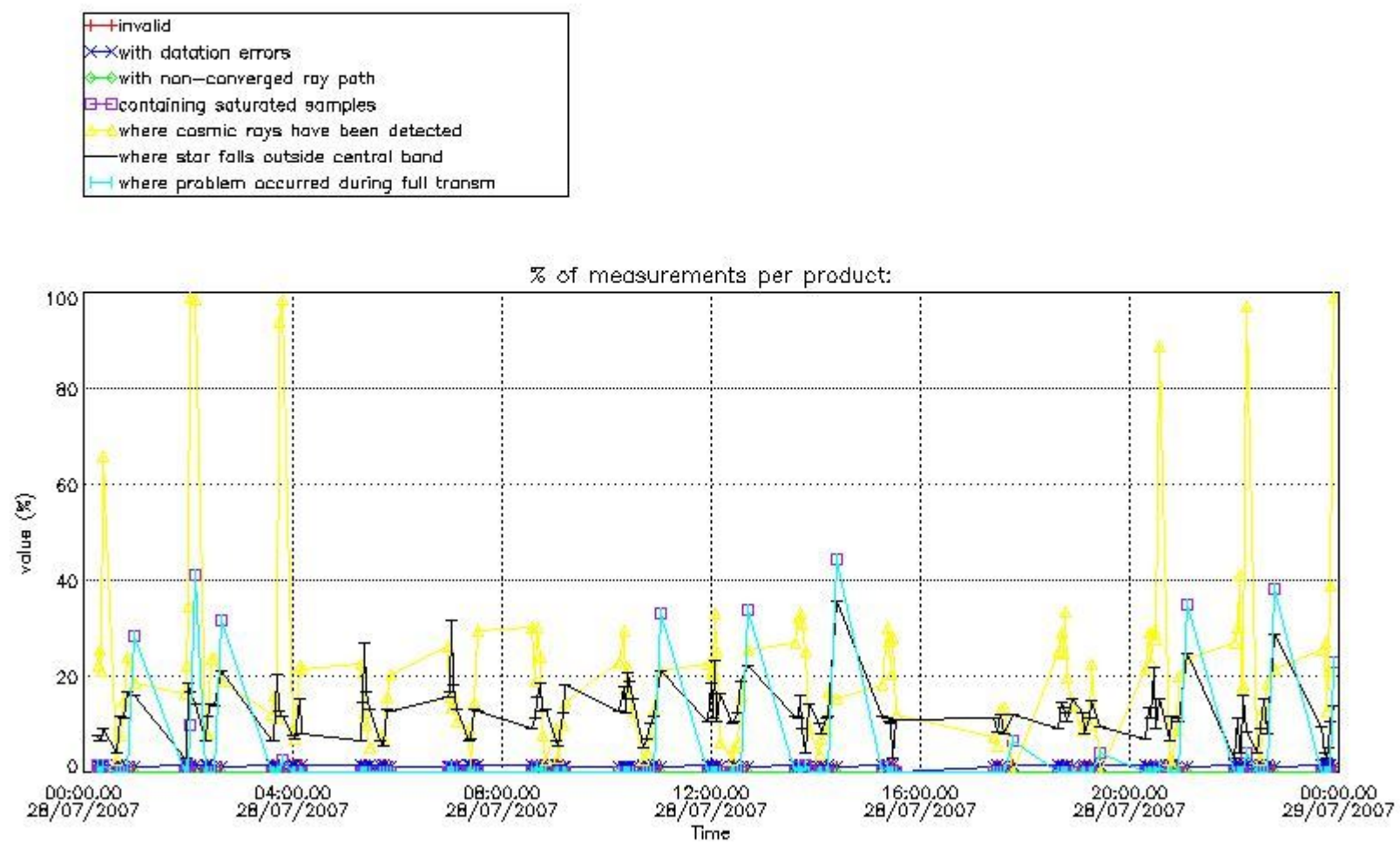


4. Level 1 quality information per product

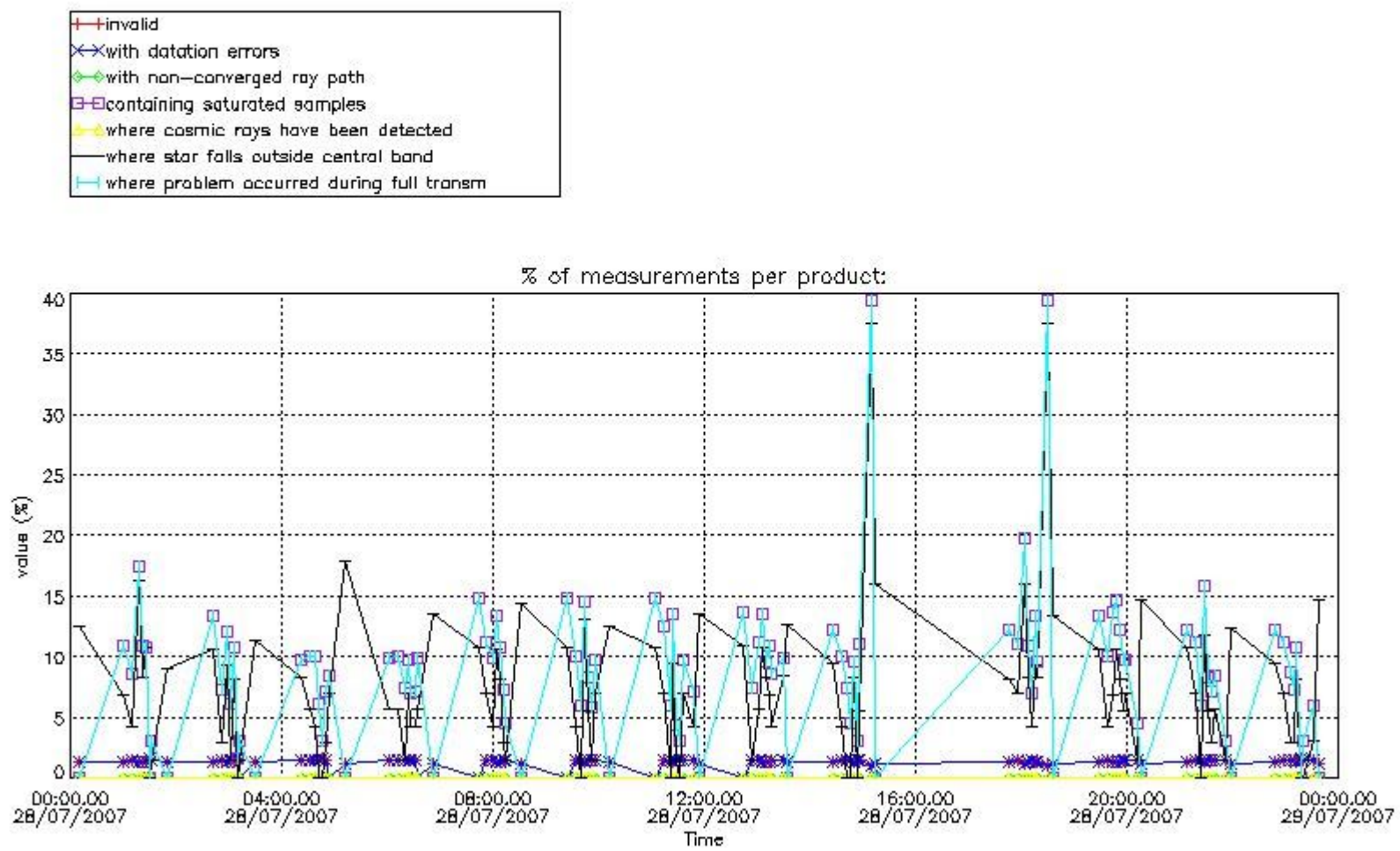
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



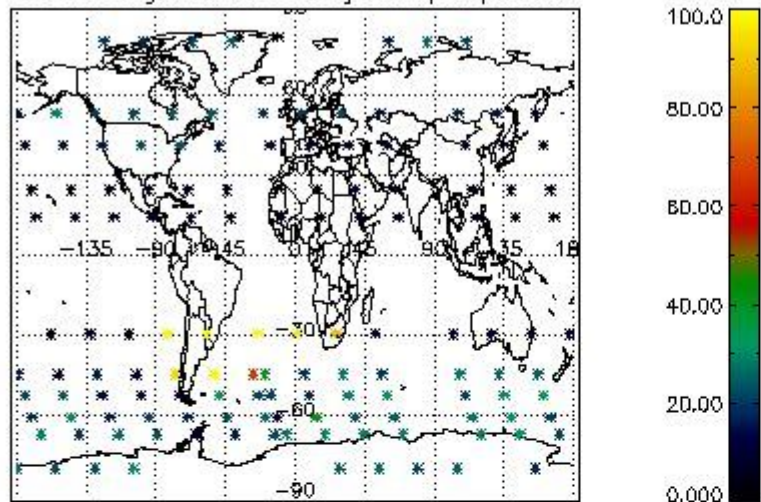
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



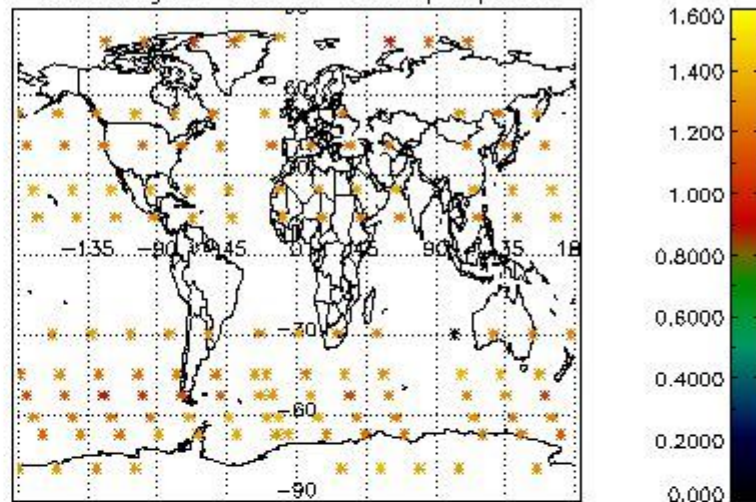
4.2 Plot quality information per product coming from level 1b processing (world map)

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

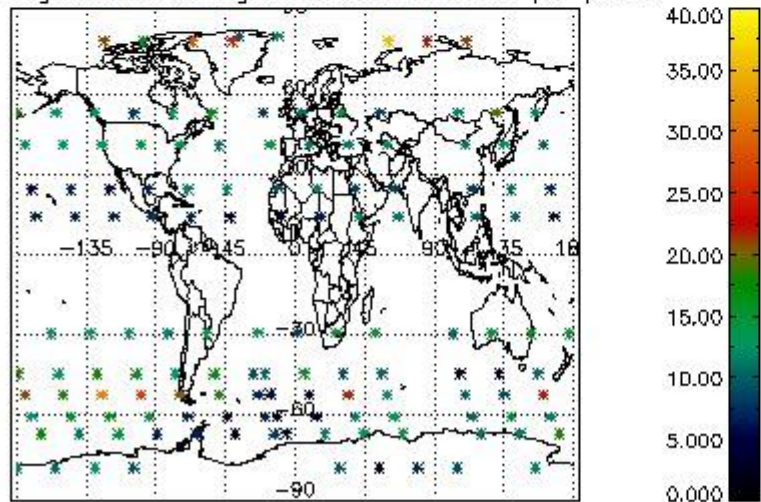
Percentage of cosmic ray hits per profile



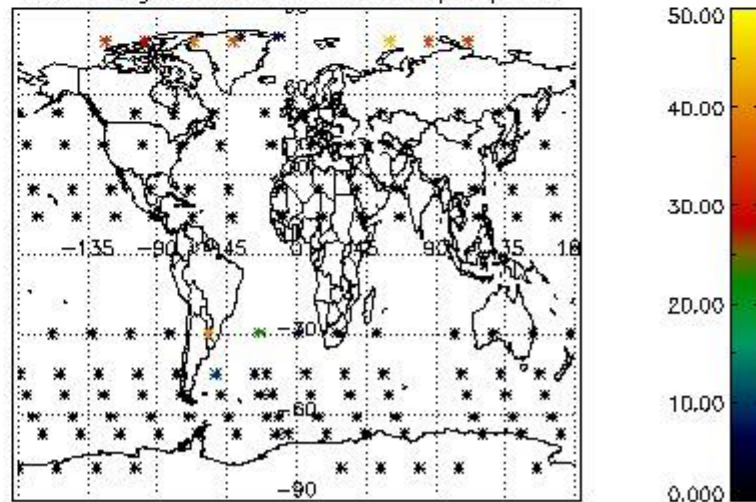
Percentage of datation errors per profile



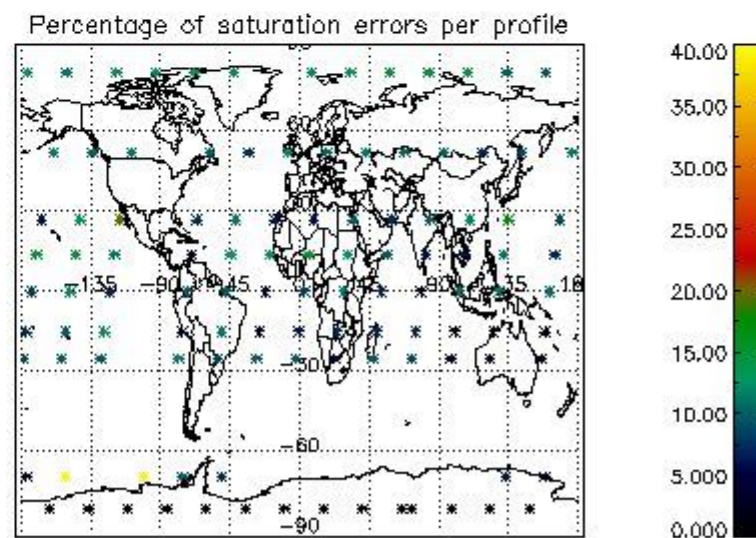
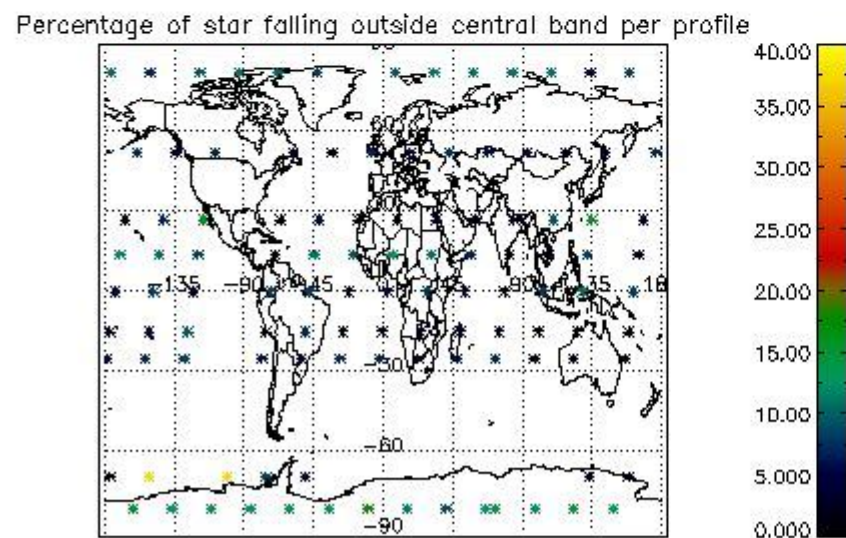
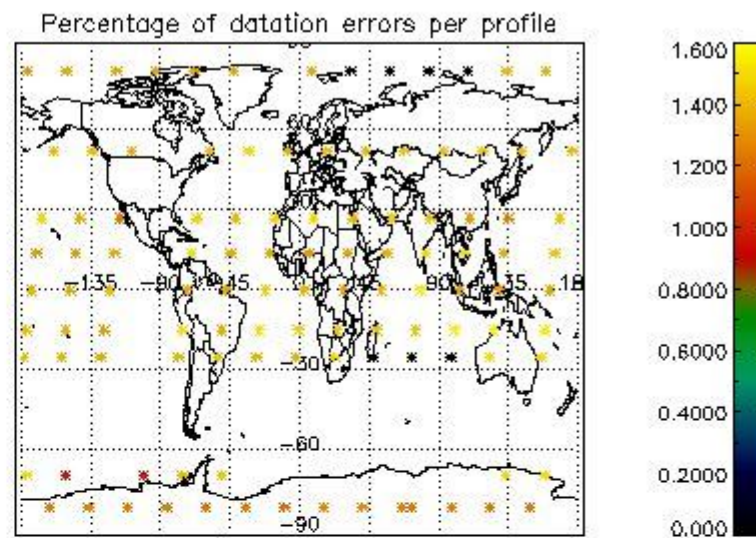
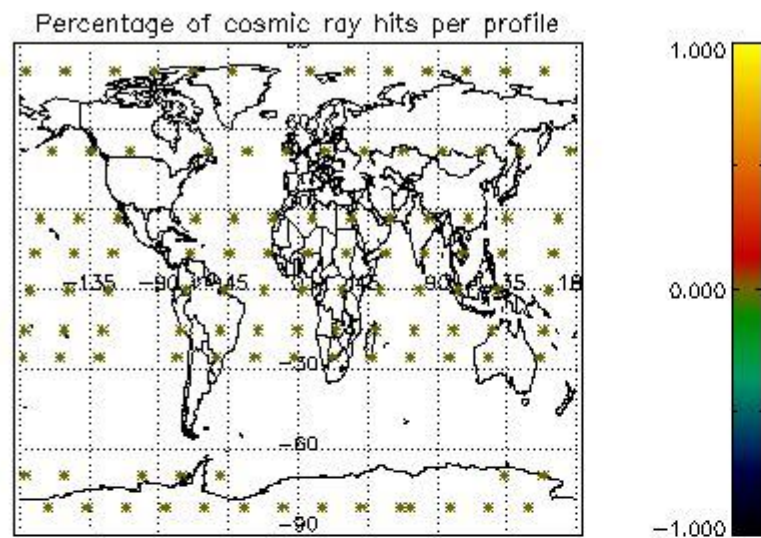
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



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

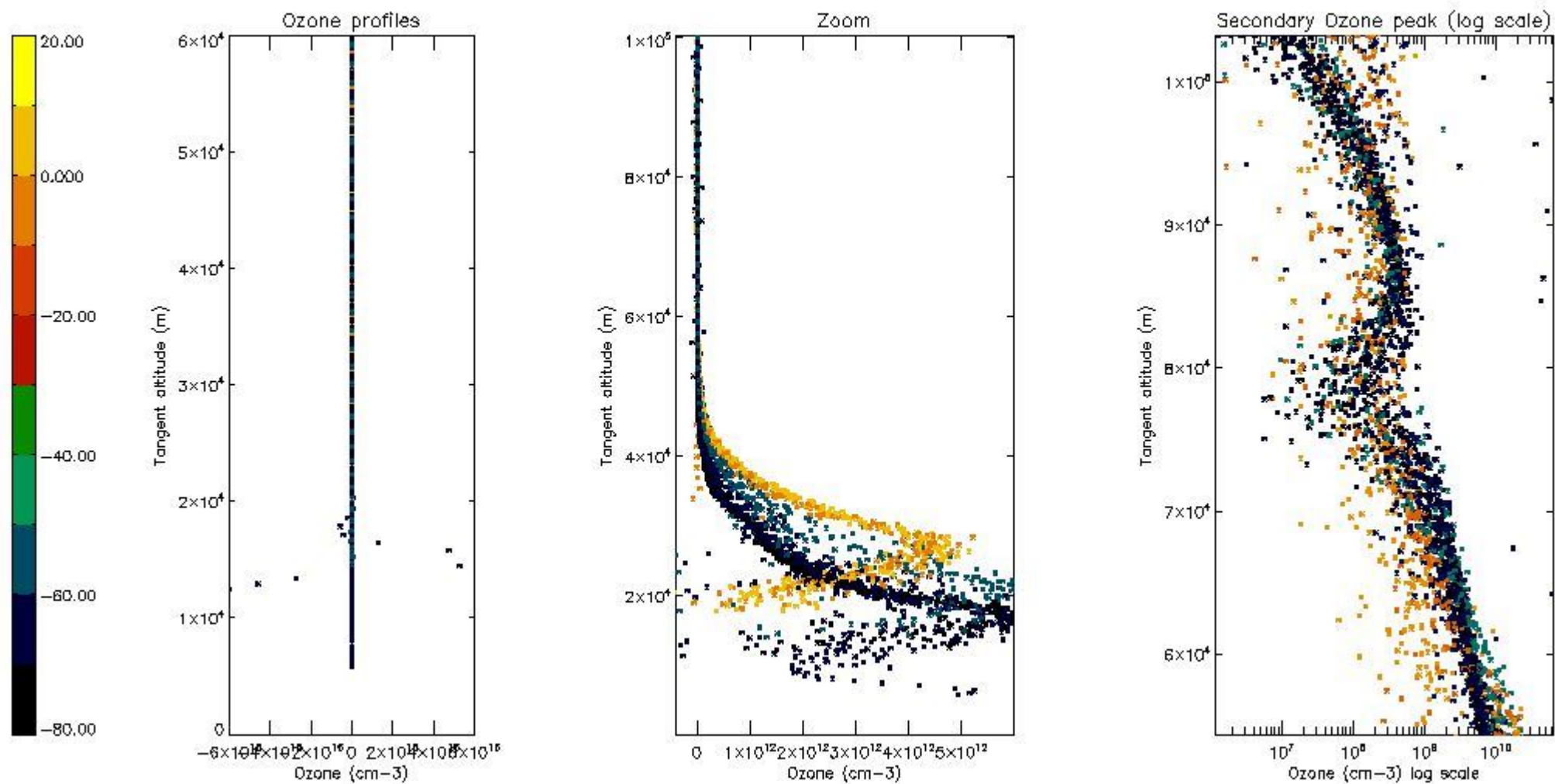
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	40
STD < 20	22

STD < 10	17
STD < 5	12

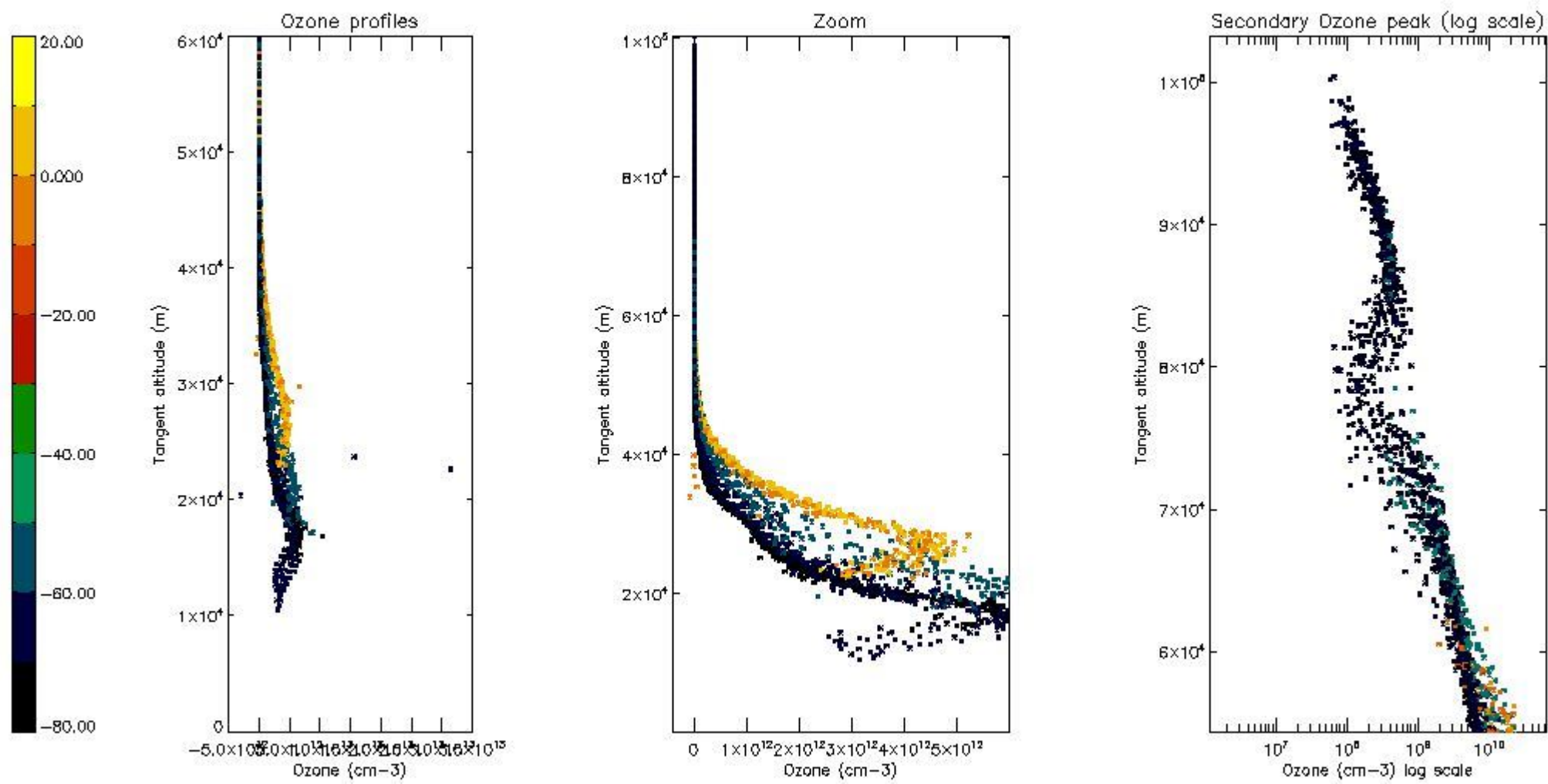
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



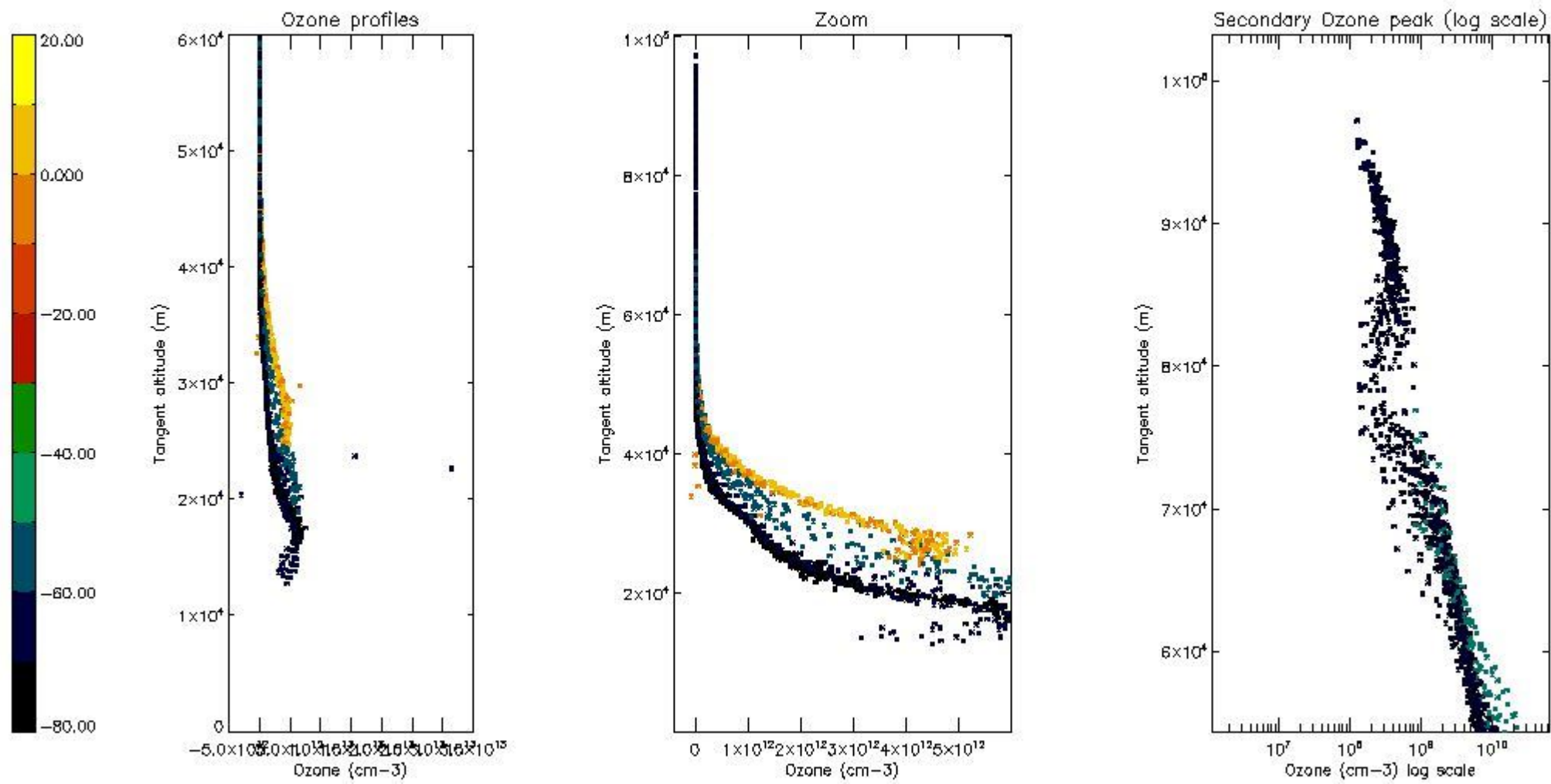
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



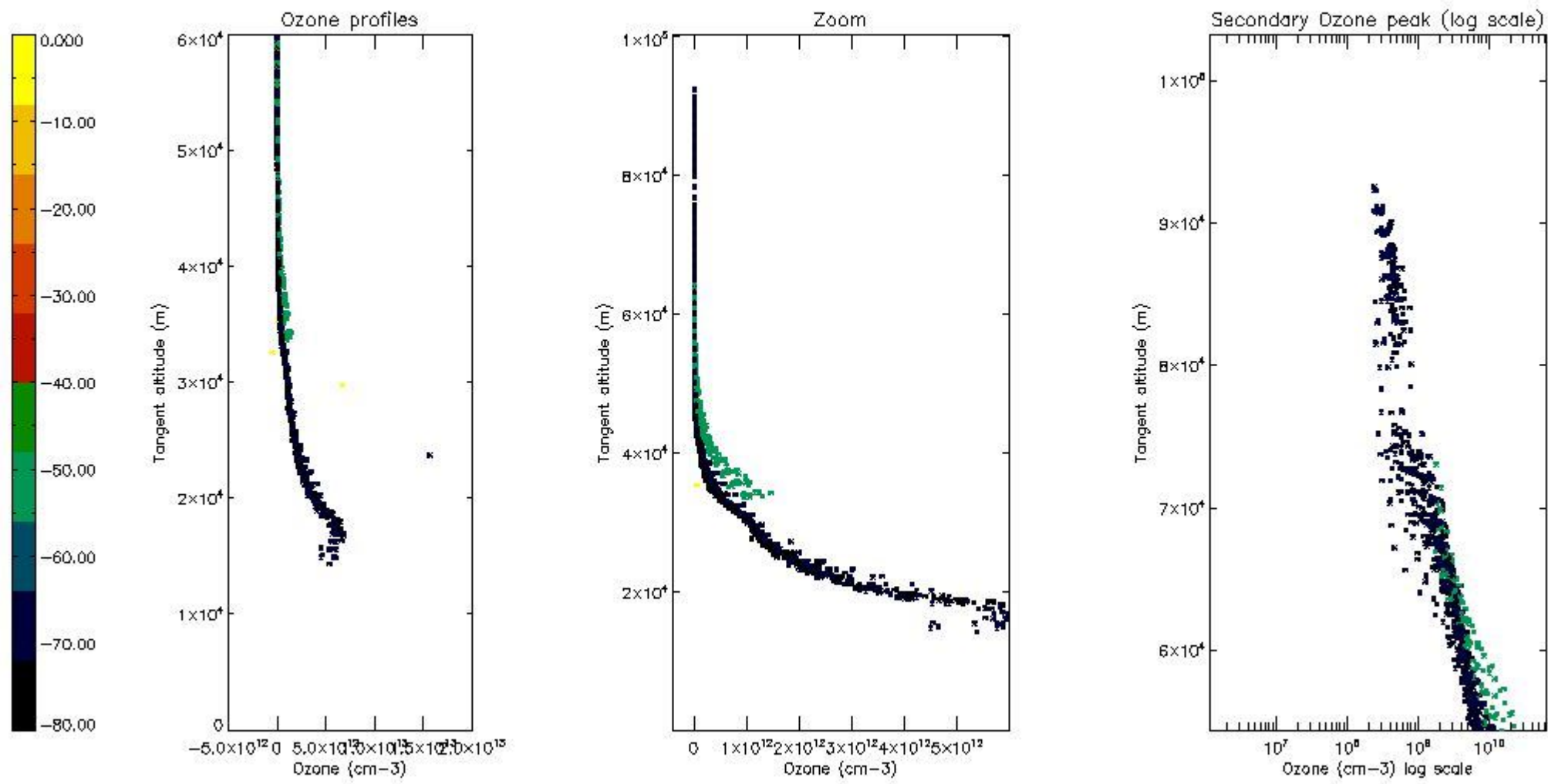
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



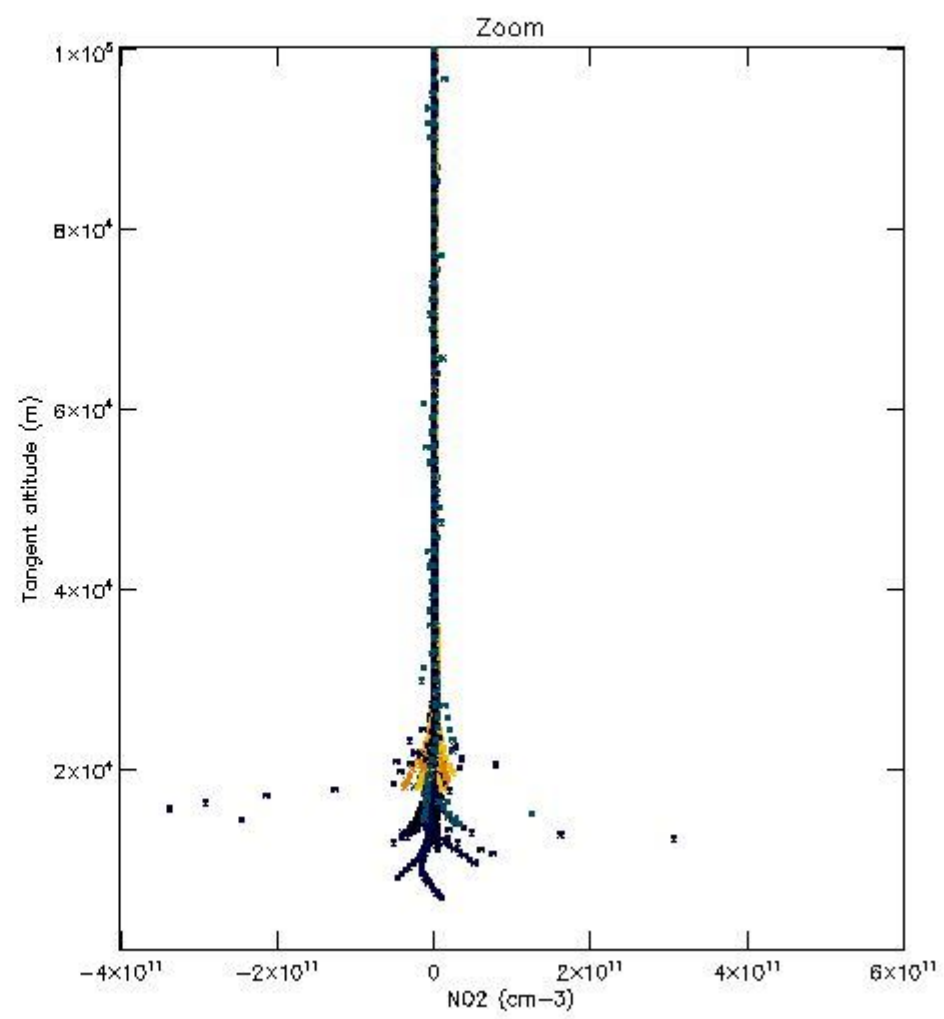
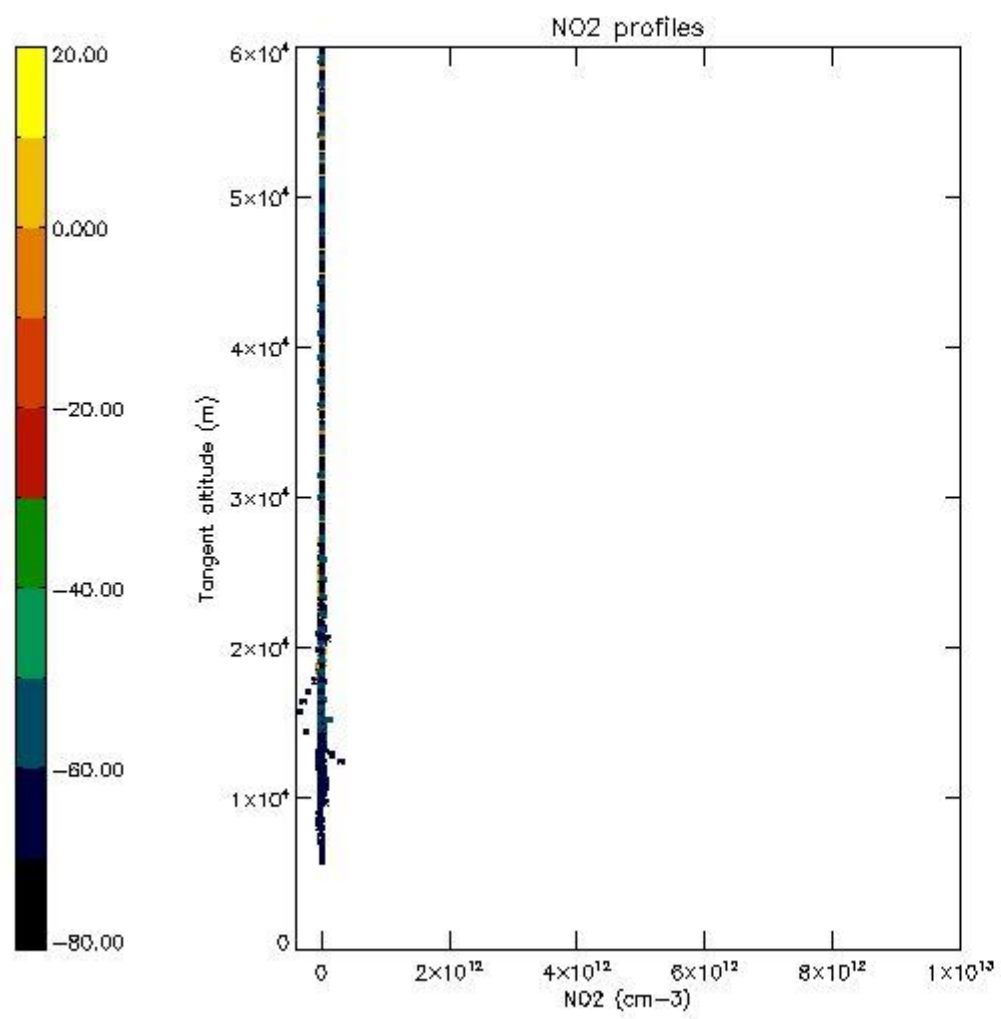
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



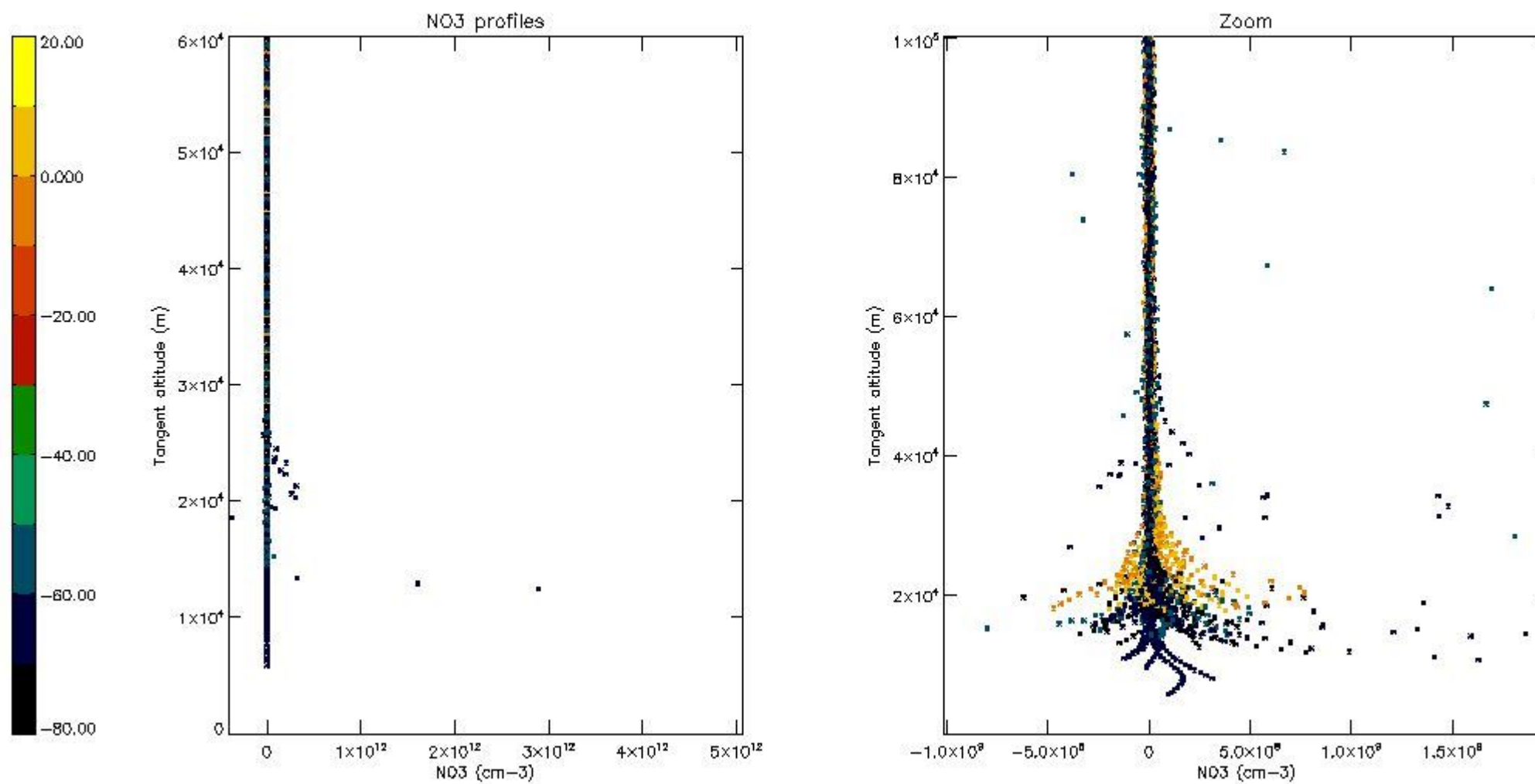
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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	28-JUL-2007 00:09:18
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-JUL-2007 00:09:18
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-JUL-2007 00:09:18

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	22APR2013 22:22:34
Data source version	GOMOS/6.01
Start time of products	28-07-2007 (28JUL2007 00:00:00)
Stop time of products	29-07-2007 (29JUL2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	251
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

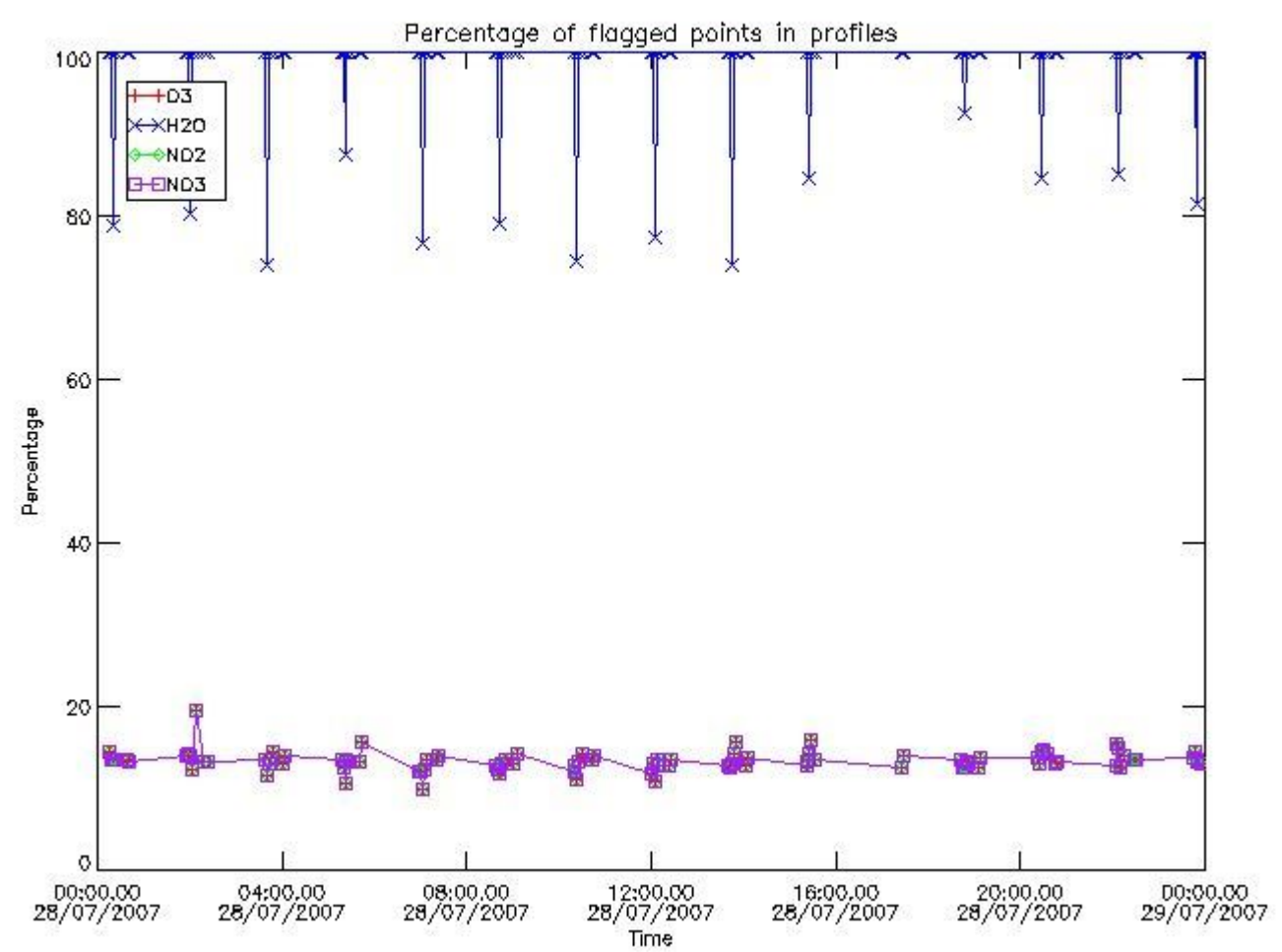
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070728_000918_000000402060_00159_28269_3103.N1	28-JUL-2007 00:09:18	Bright	40.000	28	12Bet Tau	1.6500	15200.	80	28269	No
2	GOM_NL__2PRFIN20070728_001543_000000392060_00159_28269_3104.N1	28-JUL-2007 00:15:43	Dark	38.500	27	24Gam Ori	1.6360	26000.	77	28269	No
3	GOM_NL__2PRFIN20070728_001738_000000382060_00159_28269_3105.N1	28-JUL-2007 00:17:38	Dark	37.500	30	46Eps Ori	1.6940	30000.	75	28269	No
4	GOM_NL__2PRFIN20070728_002000_000000382060_00159_28269_3106.N1	28-JUL-2007 00:20:00	Dark	38.000	7	19Bet Ori	0.10000	14000.	76	28269	No
5	GOM_NL__2PRFIN20070728_002216_000000382060_00159_28269_3107.N1	28-JUL-2007 00:22:16	Dark	38.000	101	11Alp Lep	2.5820	7000.0	76	28269	No
6	GOM_NL__2PRFIN20070728_003844_000000382060_00160_28270_3102.N1	28-JUL-2007 00:38:44	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	28270	No
7	GOM_NL__2PRFIN20070728_004139_000000392060_00160_28270_3103.N1	28-JUL-2007 00:41:39	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	28270	No
8	GOM_NL__2PRFIN20070728_004619_000000412060_00160_28270_3104.N1	28-JUL-2007 00:46:19	Straylight	40.500	148	Alp Tuc	2.8780	4100.0	81	28270	No
9	GOM_NL__2PRFIN20070728_004943_000000422060_00160_28270_3105.N1	28-JUL-2007 00:49:43	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	28270	No
10	GOM_NL__2PRFIN20070728_005812_000000412060_00160_28270_3106.N1	28-JUL-2007 00:58:12	Bright	40.500	103	38Zet Sgr	2.6000	9700.0	81	28270	No
11	GOM_NL__2PRFIN20070728_010035_000000372060_00160_28270_3107.N1	28-JUL-2007 01:00:35	Bright	36.500	155	41Pi Sgr	2.9000	6600.0	73	28270	No
12	GOM_NL__2PRFIN20070728_011033_000000352060_00160_28270_3108.N1	28-JUL-2007 01:10:33	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	28270	No
13	GOM_NL__2PRFIN20070728_011737_000000402060_00160_28270_3109.N1	28-JUL-2007 01:17:37	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	28270	No
14	GOM_NL__2PRFIN20070728_012118_000000372060_00160_28270_3110.N1	28-JUL-2007 01:21:18	Bright	36.500	69	33Gam Dra	2.2310	3800.0	73	28270	No
15	GOM_NL__2PRFIN20070728_012507_000000372060_00160_28270_3111.N1	28-JUL-2007 01:25:07	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	28270	No
16	GOM_NL__2PRFIN20070728_012919_000000322060_00160_28270_3112.N1	28-JUL-2007 01:29:19	Bright	32.000	60	7Bet UMi	2.0810	3950.0	64	28270	No
17	GOM_NL__2PRFIN20070728_013211_000000332060_00160_28270_3113.N1	28-JUL-2007 01:32:11	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28270	No
18	GOM_NL__2PRFIN20070728_014954_000000392060_00160_28270_3114.N1	28-JUL-2007 01:49:54	Bright	39.000	28	12Bet Tau	1.6500	15200.	78	28270	No
19	GOM_NL__2PRFIN20070728_015620_000000372060_00160_28270_3115.N1	28-JUL-2007 01:56:20	Dark	36.500	27	24Gam Ori	1.6360	26000.	73	28270	No
20	GOM_NL__2PRFIN20070728_015814_000000362060_00160_28270_3116.N1	28-JUL-2007 01:58:14	Dark	36.000	30	46Eps Ori	1.6940	30000.	72	28270	No
21	GOM_NL__2PRFIN20070728_020037_000000442060_00160_28270_3117.N1	28-JUL-2007 02:00:37	Dark	43.500	7	19Bet Ori	0.10000	14000.	87	28270	No
22	GOM_NL__2PRFIN20070728_020252_000000422060_00160_28270_3118.N1	28-JUL-2007 02:02:52	Dark	41.500	101	11Alp Lep	2.5820	7000.0	83	28270	No
23	GOM_NL__2PRFIN20070728_020708_000000392060_00160_28270_3119.N1	28-JUL-2007 02:07:08	Dark	39.000	108	Alp Col	2.6520	15200.	78	28270	No
24	GOM_NL__2PRFIN20070728_021921_000000392060_00161_28271_3124.N1	28-JUL-2007 02:19:21	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	28271	No
25	GOM_NL__2PRFIN20070728_022215_000000392060_00161_28271_3125.N1	28-JUL-2007 02:22:15	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	28271	No
26	GOM_NL__2PRFIN20070728_022656_000000422060_00161_28271_3126.N1	28-JUL-2007 02:26:56	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	28271	No
27	GOM_NL__2PRFIN20070728_023020_000000402060_00161_28271_3127.N1	28-JUL-2007 02:30:20	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	28271	No
28	GOM_NL__2PRFIN20070728_023848_000000432060_00161_28271_3128.N1	28-JUL-2007 02:38:48	Bright	42.500	103	38Zet Sgr	2.6000	9700.0	85	28271	No
29	GOM_NL__2PRFIN20070728_024112_000000382060_00161_28271_3129.N1	28-JUL-2007 02:41:12	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	28271	No
30	GOM_NL__2PRFIN20070728_025109_000000352060_00161_28271_3130.N1	28-JUL-2007 02:51:09	Bright	34.500	168	17Zet Aql	2.9860	11000.	69	28271	No
31	GOM_NL__2PRFIN20070728_025813_000000382060_00161_28271_3131.N1	28-JUL-2007 02:58:13	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	28271	No
32	GOM_NL__2PRFIN20070728_030154_000000332060_00161_28271_3132.N1	28-JUL-2007 03:01:54	Bright	33.000	69	33Gam Dra	2.2310	3800.0	66	28271	No
33	GOM_NL__2PRFIN20070728_030543_000000372060_00161_28271_3133.N1	28-JUL-2007 03:05:43	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	28271	No
34	GOM_NL__2PRFIN20070728_030955_000000332060_00161_28271_3134.N1	28-JUL-2007 03:09:55	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	28271	No
35	GOM_NL__2PRFIN20070728_031247_000000332060_00161_28271_3135.N1	28-JUL-2007 03:12:47	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28271	No
36	GOM_NL__2PRFIN20070728_033030_000000402060_00161_28271_3136.N1	28-JUL-2007 03:30:30	Bright	39.500	28	12Bet Tau	1.6500	15200.	79	28271	No
37	GOM_NL__2PRFIN20070728_033656_000000382060_00161_28271_3137.N1	28-JUL-2007 03:36:56	Dark	37.500	27	24Gam Ori	1.6360	26000.	75	28271	No
38	GOM_NL__2PRFIN20070728_033851_000000382060_00161_28271_3138.N1	28-JUL-2007 03:38:51	Dark	37.500	30	46Eps Ori	1.6940	30000.	75	28271	No
39	GOM_NL__2PRFIN20070728_034113_000000452060_00161_28271_3139.N1	28-JUL-2007 03:41:13	Dark	44.500	7	19Bet Ori	0.10000	14000.	89	28271	No
40	GOM_NL__2PRFIN20070728_034328_000000402060_00161_28271_3140.N1	28-JUL-2007 03:43:28	Dark	39.500	101	11Alp Lep	2.5820	7000.0	79	28271	No
41	GOM_NL__2PRFIN20070728_034744_000000392060_00161_28271_3141.N1	28-JUL-2007 03:47:44	Dark	38.500	108	Alp Col	2.6520	15200.	77	28271	No
42	GOM_NL__2PRFIN20070728_035957_000000392060_00162_28272_3140.N1	28-JUL-2007 03:59:57	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	28272	No

220	GOM_NL__2PRFIN20070728_212831_000000382060_00172_28282_3392.N1	28-JUL-2007 21:28:31	Bright	38.000	69	33Gam Dra	2.2310	3800.0	76	28282	No
221	GOM_NL__2PRFIN20070728_213222_000000362060_00172_28282_3393.N1	28-JUL-2007 21:32:22	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	28282	No
222	GOM_NL__2PRFIN20070728_213633_000000352060_00172_28282_3394.N1	28-JUL-2007 21:36:33	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	28282	No
223	GOM_NL__2PRFIN20070728_213923_000000362060_00172_28282_3395.N1	28-JUL-2007 21:39:23	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	28282	No
224	GOM_NL__2PRFIN20070728_215209_000000332060_00172_28282_3396.N1	28-JUL-2007 21:52:09	Bright	33.000	42	34Bet Aur	1.9000	10200.	66	28282	No
225	GOM_NL__2PRFIN20070728_215707_000000412060_00172_28282_3397.N1	28-JUL-2007 21:57:07	Bright	40.500	28	12Bet Tau	1.6500	15200.	81	28282	No
226	GOM_NL__2PRFIN20070728_215910_000000362060_00172_28282_3398.N1	28-JUL-2007 21:59:10	Tw_i_and_stray	35.500	176	23Zet Tau	3.0200	22000.	71	28282	No
227	GOM_NL__2PRFIN20070728_220335_000000402060_00172_28282_3399.N1	28-JUL-2007 22:03:35	Dark	40.000	27	24Gam Ori	1.6360	26000.	80	28282	No
228	GOM_NL__2PRFIN20070728_220529_000000372060_00172_28282_3400.N1	28-JUL-2007 22:05:29	Dark	36.500	30	46Eps Ori	1.6940	30000.	73	28282	No
229	GOM_NL__2PRFIN20070728_220753_000000382060_00172_28282_3401.N1	28-JUL-2007 22:07:53	Dark	37.500	7	19Bet Ori	0.10000	14000.	75	28282	No
230	GOM_NL__2PRFIN20070728_221007_000000412060_00172_28282_3402.N1	28-JUL-2007 22:10:07	Dark	41.000	101	11Alp Lep	2.5820	7000.0	82	28282	No
231	GOM_NL__2PRFIN20070728_221423_000000372060_00172_28282_3403.N1	28-JUL-2007 22:14:23	Dark	36.500	108	Alp Col	2.6520	15200.	73	28282	No
232	GOM_NL__2PRFIN20070728_222639_000000382060_00173_28283_3394.N1	28-JUL-2007 22:26:39	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	28283	No
233	GOM_NL__2PRFIN20070728_222930_000000382060_00173_28283_3395.N1	28-JUL-2007 22:29:30	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	28283	No
234	GOM_NL__2PRFIN20070728_223412_000000432060_00173_28283_3396.N1	28-JUL-2007 22:34:12	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	28283	No
235	GOM_NL__2PRFIN20070728_223734_000000382060_00173_28283_3397.N1	28-JUL-2007 22:37:34	Straylight	37.500	45	Alp Pav	1.9400	26000.	75	28283	No
236	GOM_NL__2PRFIN20070728_224601_000000472060_00173_28283_3398.N1	28-JUL-2007 22:46:01	Bright	47.000	103	38Zet Sgr	2.6000	9700.0	94	28283	No
237	GOM_NL__2PRFIN20070728_224825_000000372060_00173_28283_3399.N1	28-JUL-2007 22:48:25	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	28283	No
238	GOM_NL__2PRFIN20070728_225821_000000362060_00173_28283_3400.N1	28-JUL-2007 22:58:21	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	28283	No
239	GOM_NL__2PRFIN20070728_230525_000000352060_00173_28283_3401.N1	28-JUL-2007 23:05:25	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	28283	No
240	GOM_NL__2PRFIN20070728_230907_000000352060_00173_28283_3402.N1	28-JUL-2007 23:09:07	Bright	34.500	69	33Gam Dra	2.2310	3800.0	69	28283	No
241	GOM_NL__2PRFIN20070728_231258_000000372060_00173_28283_3403.N1	28-JUL-2007 23:12:58	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	28283	No
242	GOM_NL__2PRFIN20070728_231710_000000322060_00173_28283_3404.N1	28-JUL-2007 23:17:10	Bright	32.000	60	7Bet UMi	2.0810	3950.0	64	28283	No
243	GOM_NL__2PRFIN20070728_231959_000000332060_00173_28283_3405.N1	28-JUL-2007 23:19:59	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28283	No
244	GOM_NL__2PRFIN20070728_233245_000000342060_00173_28283_3406.N1	28-JUL-2007 23:32:45	Bright	33.500	42	34Bet Aur	1.9000	10200.	67	28283	No
245	GOM_NL__2PRFIN20070728_233744_000000412060_00173_28283_3407.N1	28-JUL-2007 23:37:44	Bright	41.000	28	12Bet Tau	1.6500	15200.	82	28283	No
246	GOM_NL__2PRFIN20070728_233946_000000382060_00173_28283_3408.N1	28-JUL-2007 23:39:46	Tw_i_and_stray	37.500	176	23Zet Tau	3.0200	22000.	75	28283	No
247	GOM_NL__2PRFIN20070728_234411_000000372060_00173_28283_3409.N1	28-JUL-2007 23:44:11	Dark	37.000	27	24Gam Ori	1.6360	26000.	74	28283	No
248	GOM_NL__2PRFIN20070728_234605_000000362060_00173_28283_3410.N1	28-JUL-2007 23:46:05	Dark	35.500	30	46Eps Ori	1.6940	30000.	71	28283	No
249	GOM_NL__2PRFIN20070728_234829_000000382060_00173_28283_3411.N1	28-JUL-2007 23:48:29	Dark	38.000	7	19Bet Ori	0.10000	14000.	76	28283	No
250	GOM_NL__2PRFIN20070728_235043_000000392060_00173_28283_3412.N1	28-JUL-2007 23:50:43	Dark	38.500	101	11Alp Lep	2.5820	7000.0	77	28283	No
251	GOM_NL__2PRFIN20070728_235459_000000402060_00173_28283_3413.N1	28-JUL-2007 23:54:59	Dark	39.500	108	Alp Col	2.6520	15200.	79	28283	No

3. Quality information per product

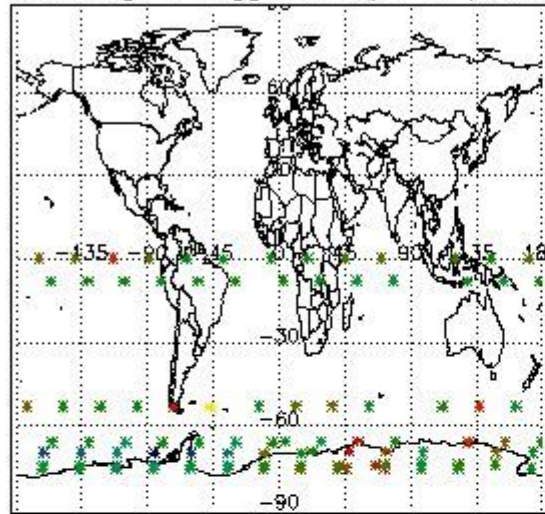
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

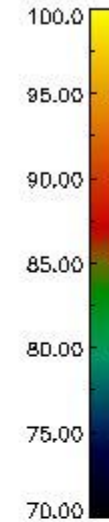
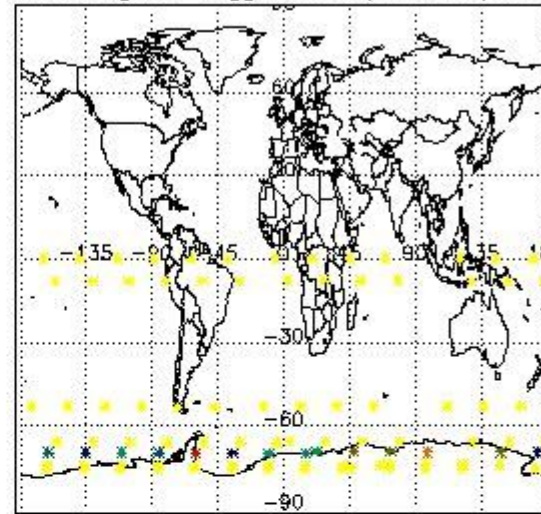


3.2 Plot quality information per product (world map)

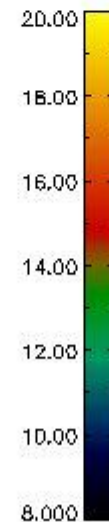
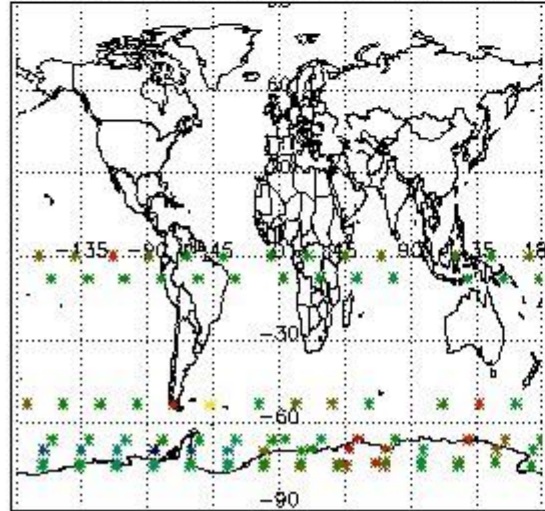
Percentage of flagged data per O3 profile



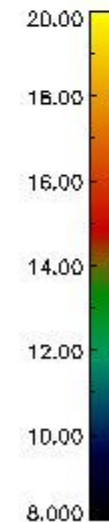
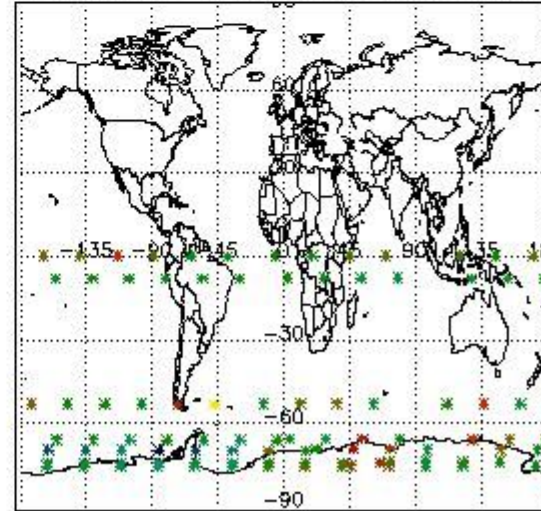
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

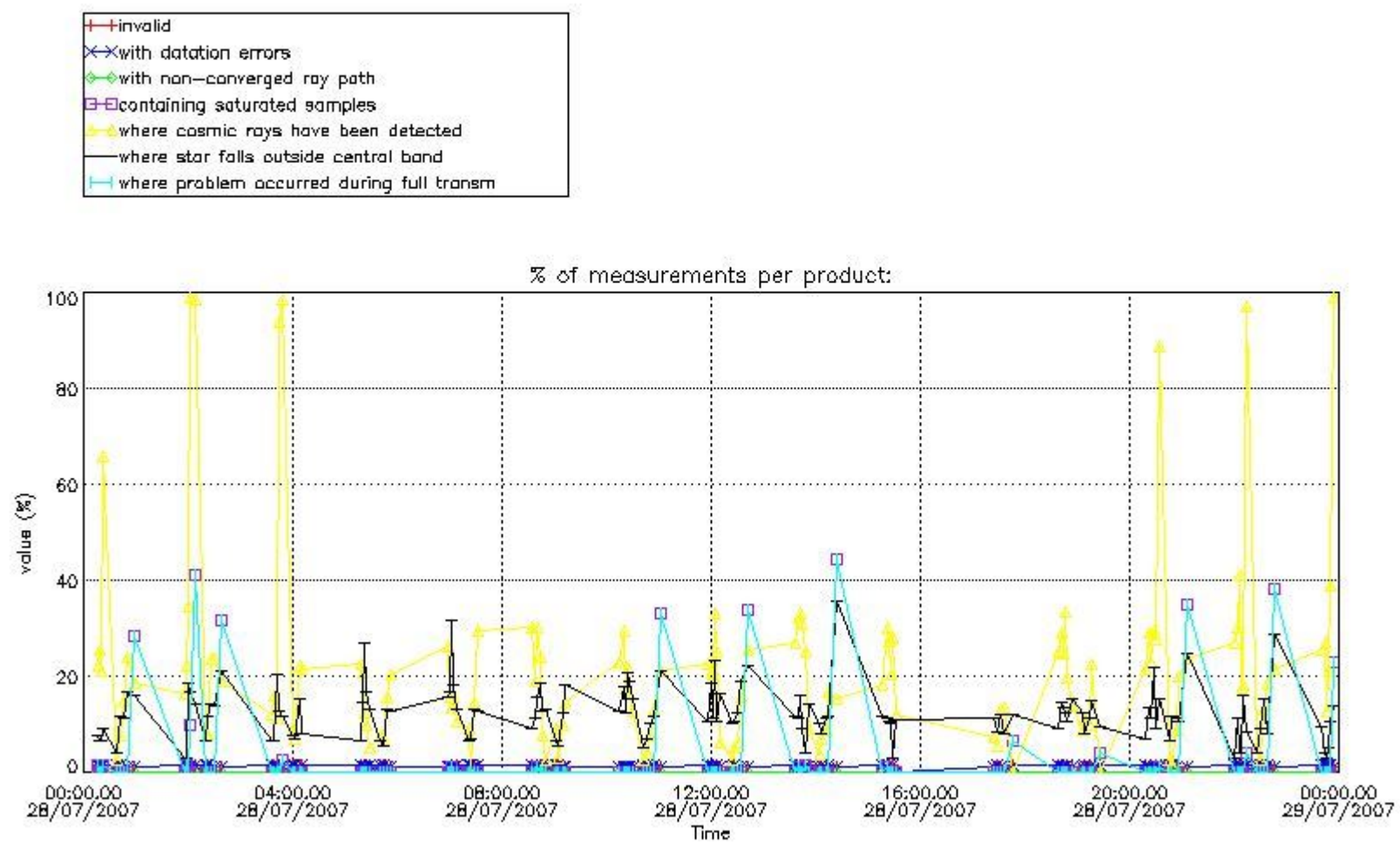


4. Level 1 quality information per product

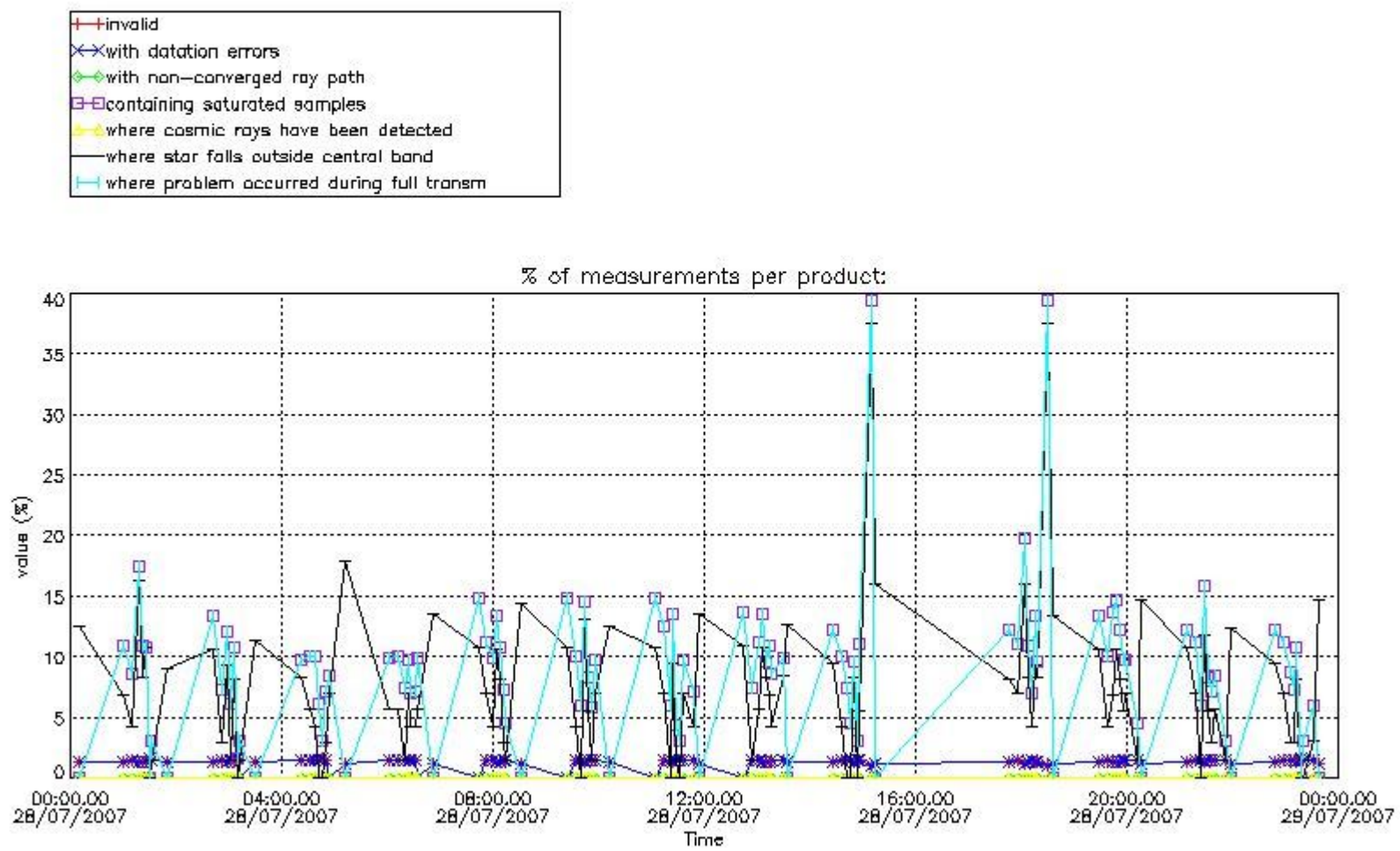
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



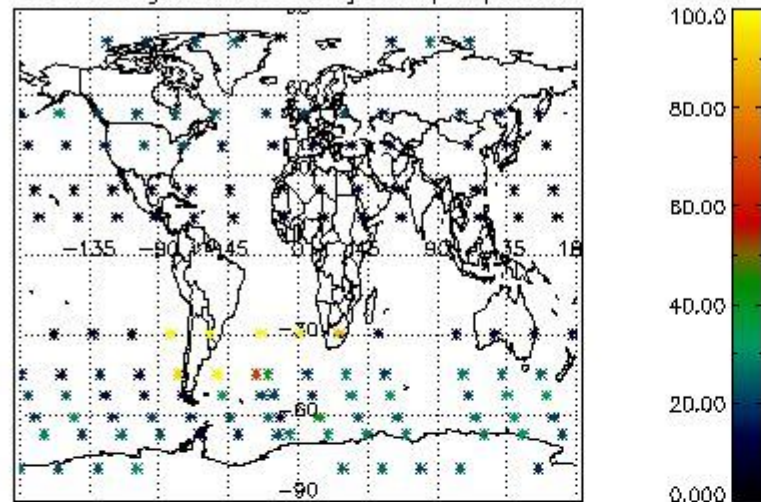
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



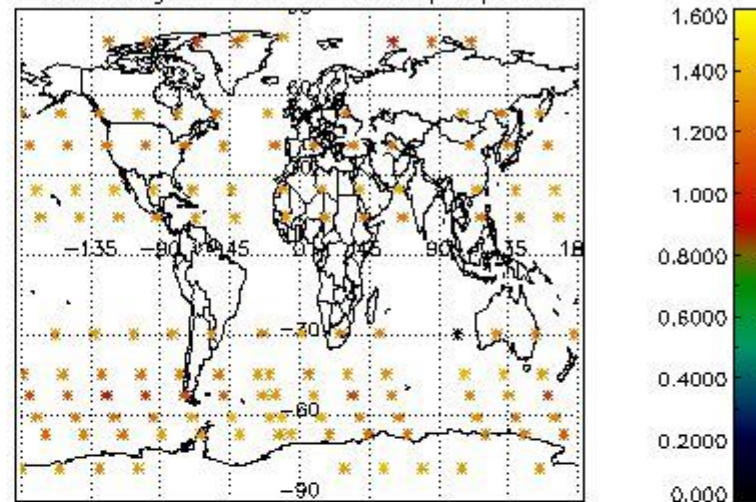
4.2 Plot quality information per product coming from level 1b processing (world map)

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

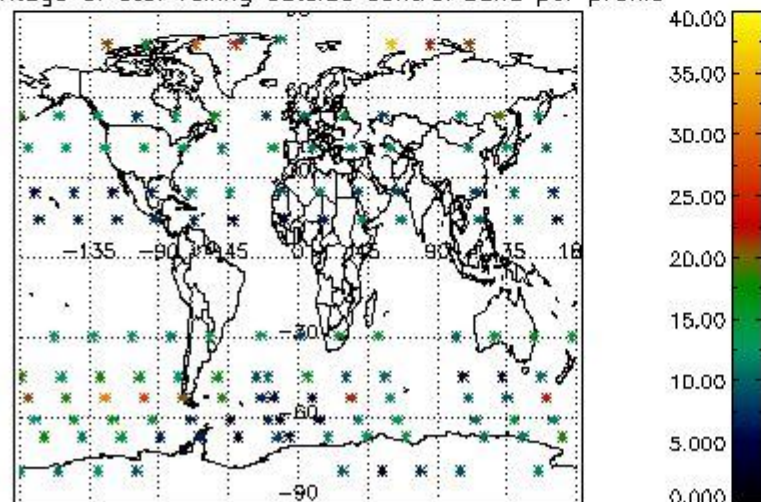
Percentage of cosmic ray hits per profile



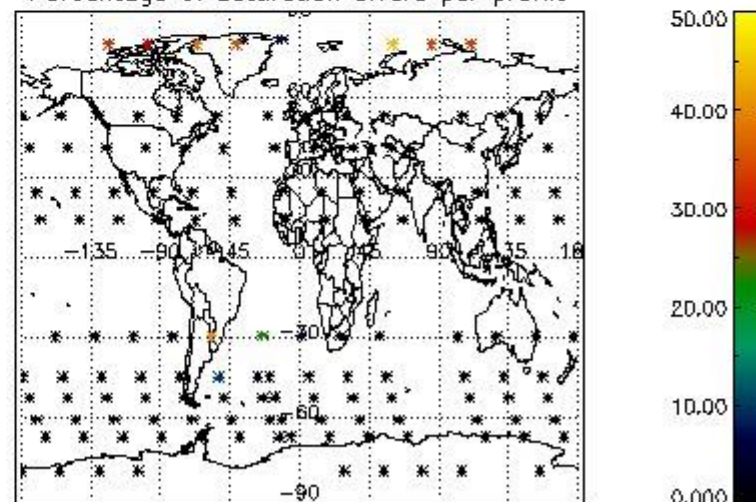
Percentage of datation errors per profile



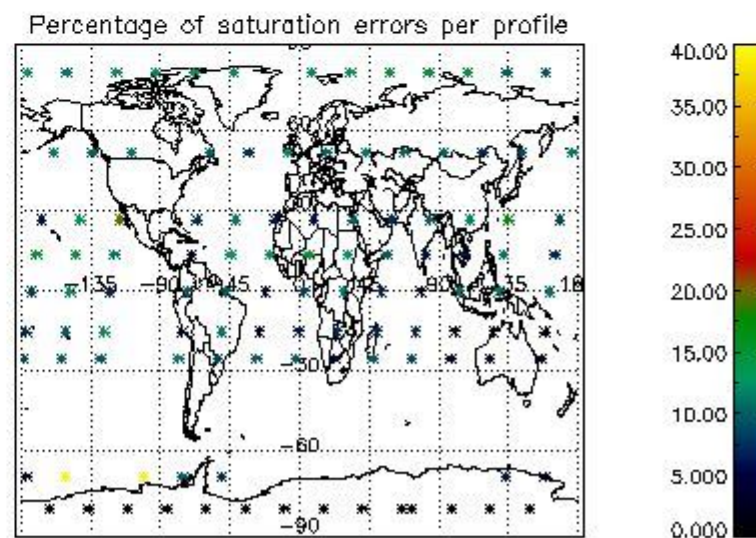
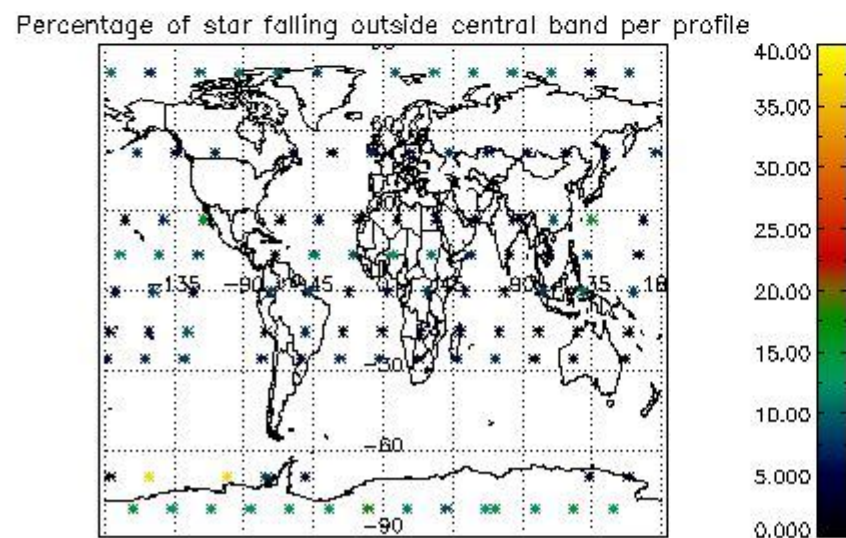
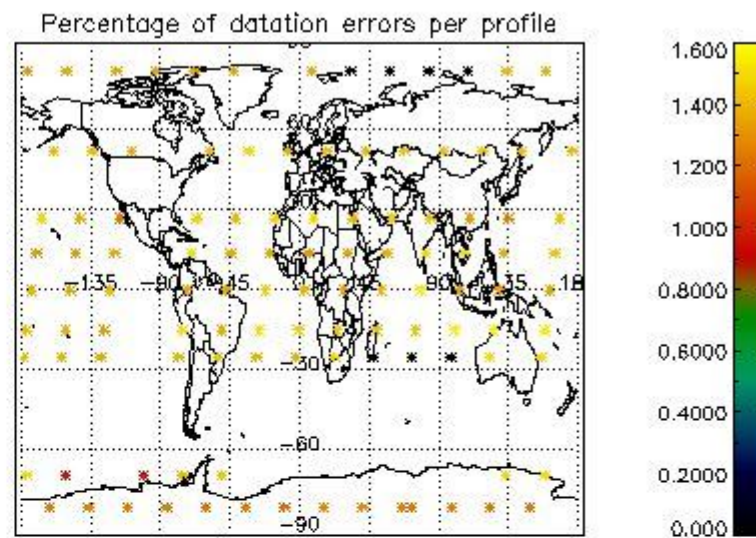
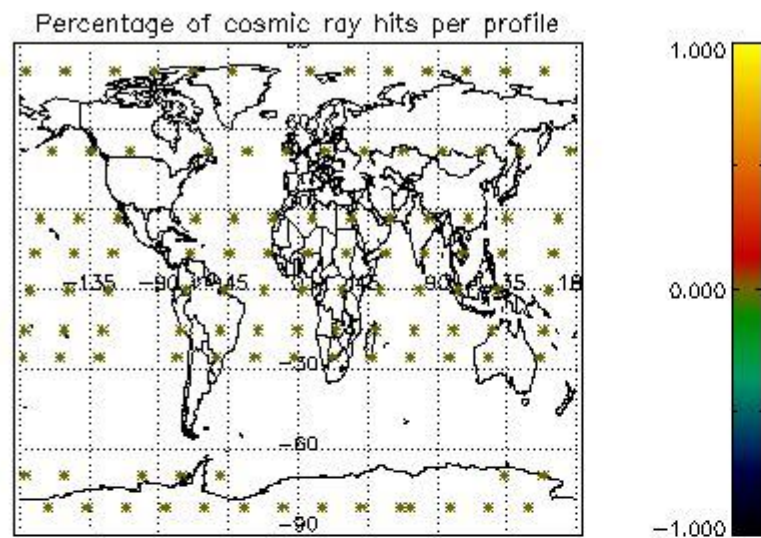
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



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

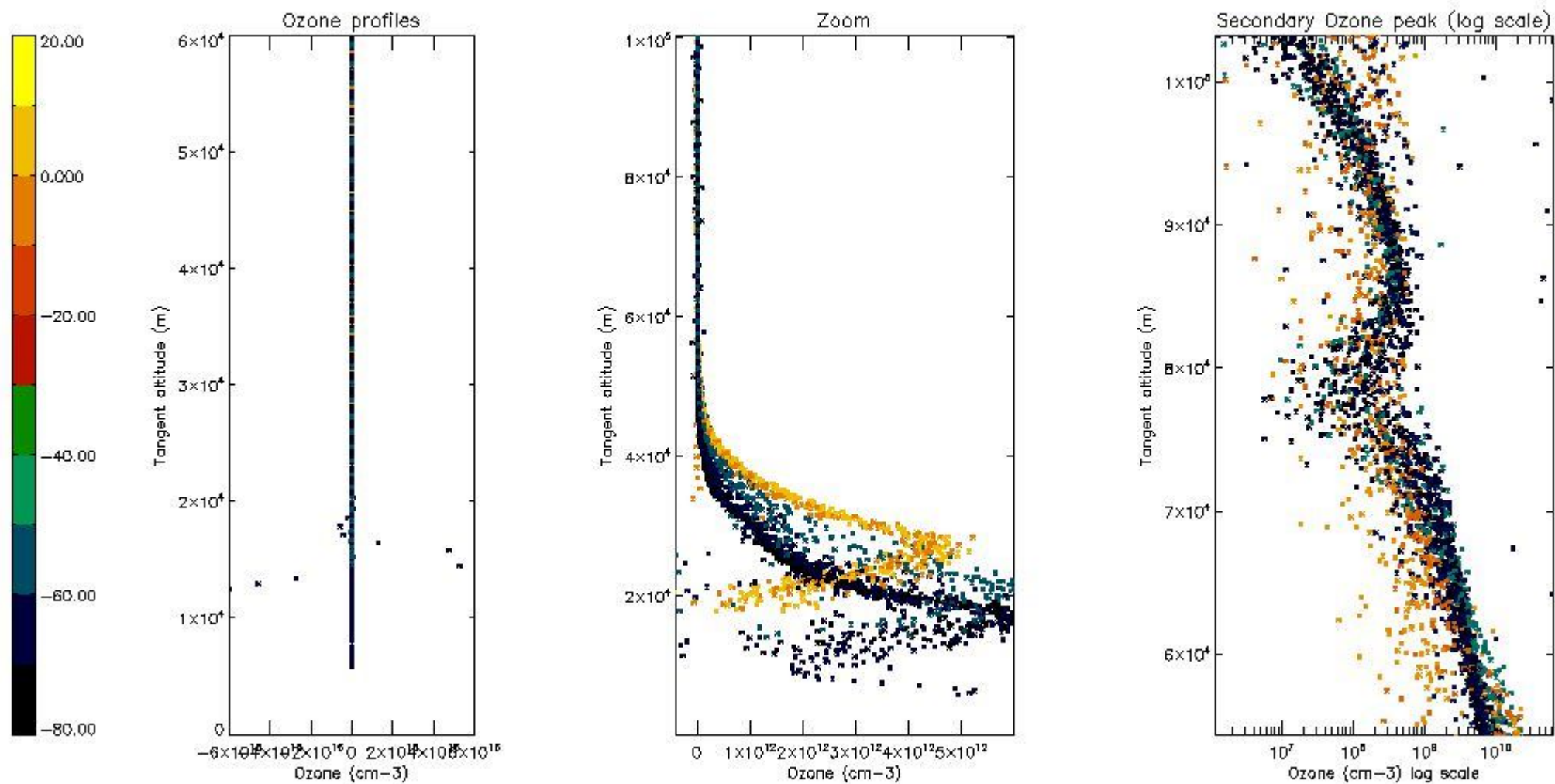
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	40
STD < 20	22

STD < 10	17
STD < 5	12

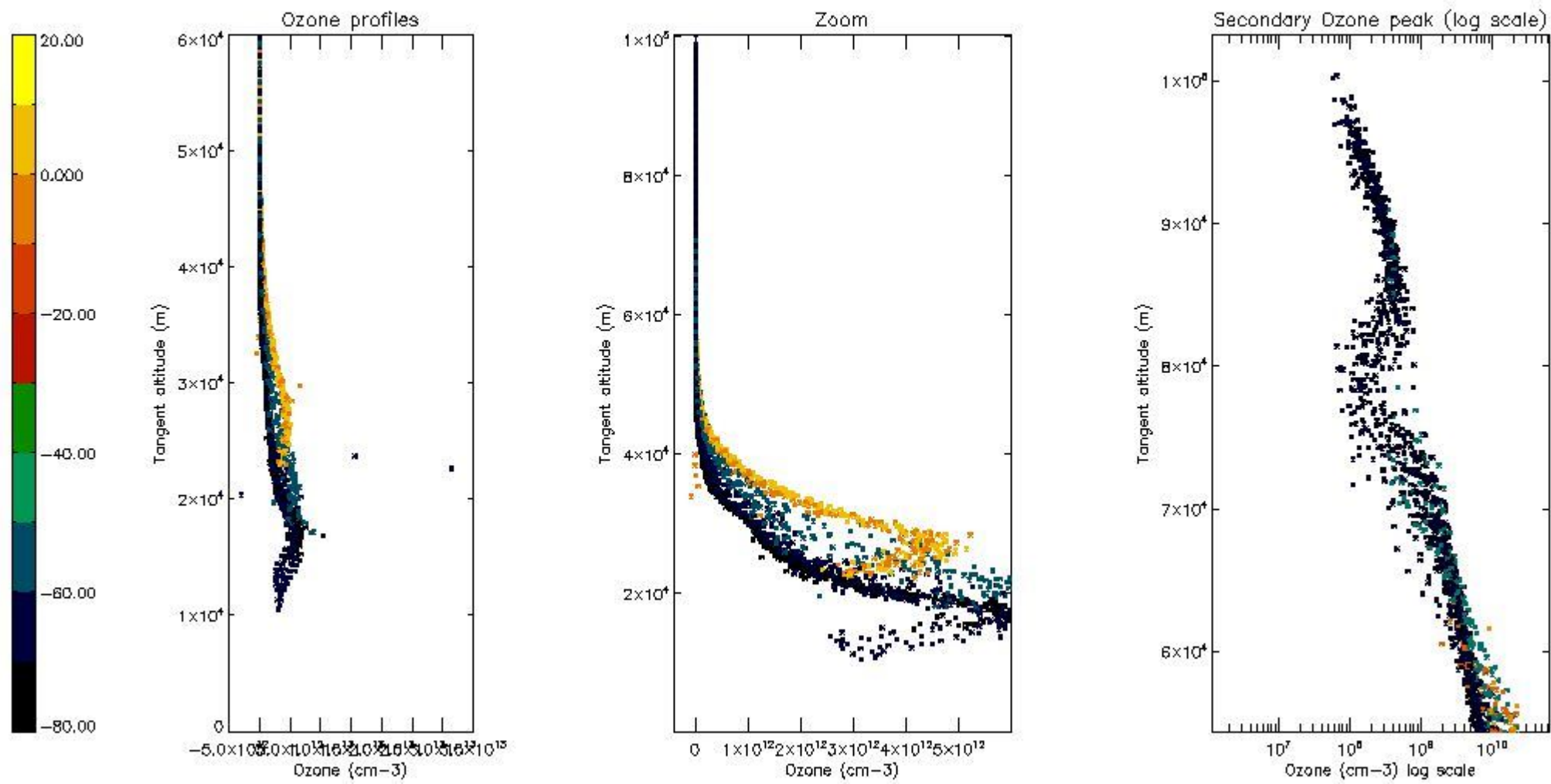
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



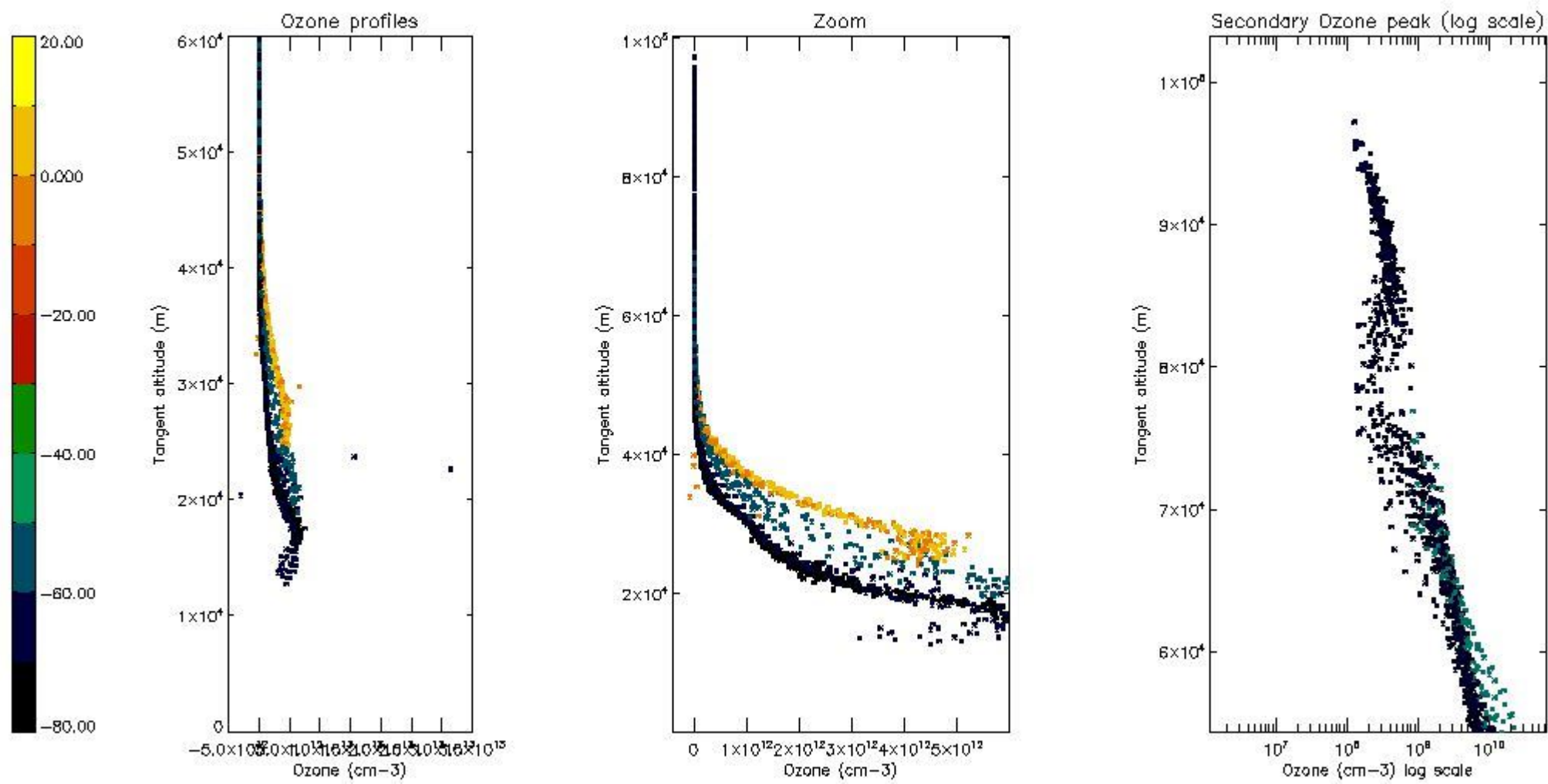
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



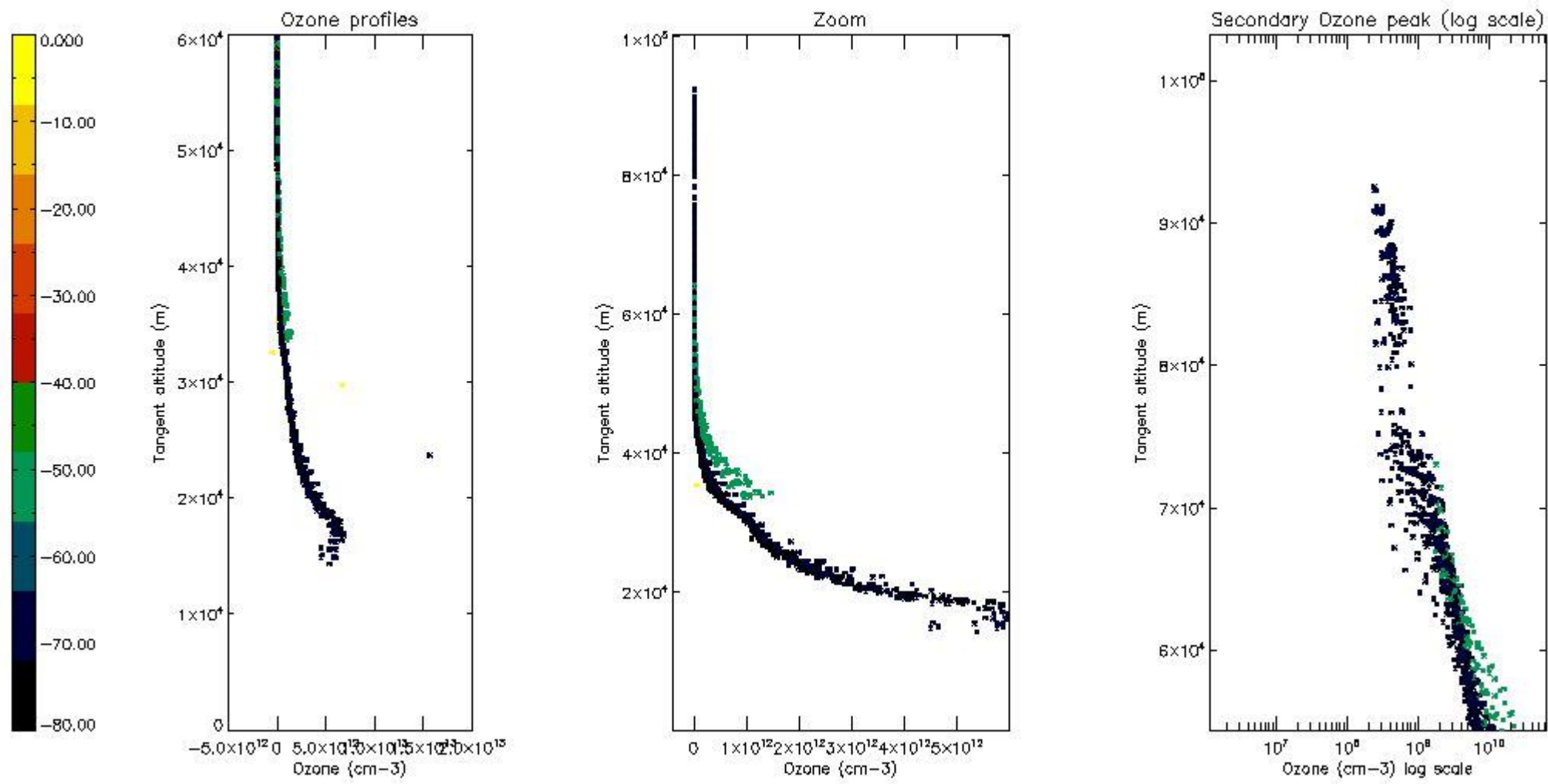
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



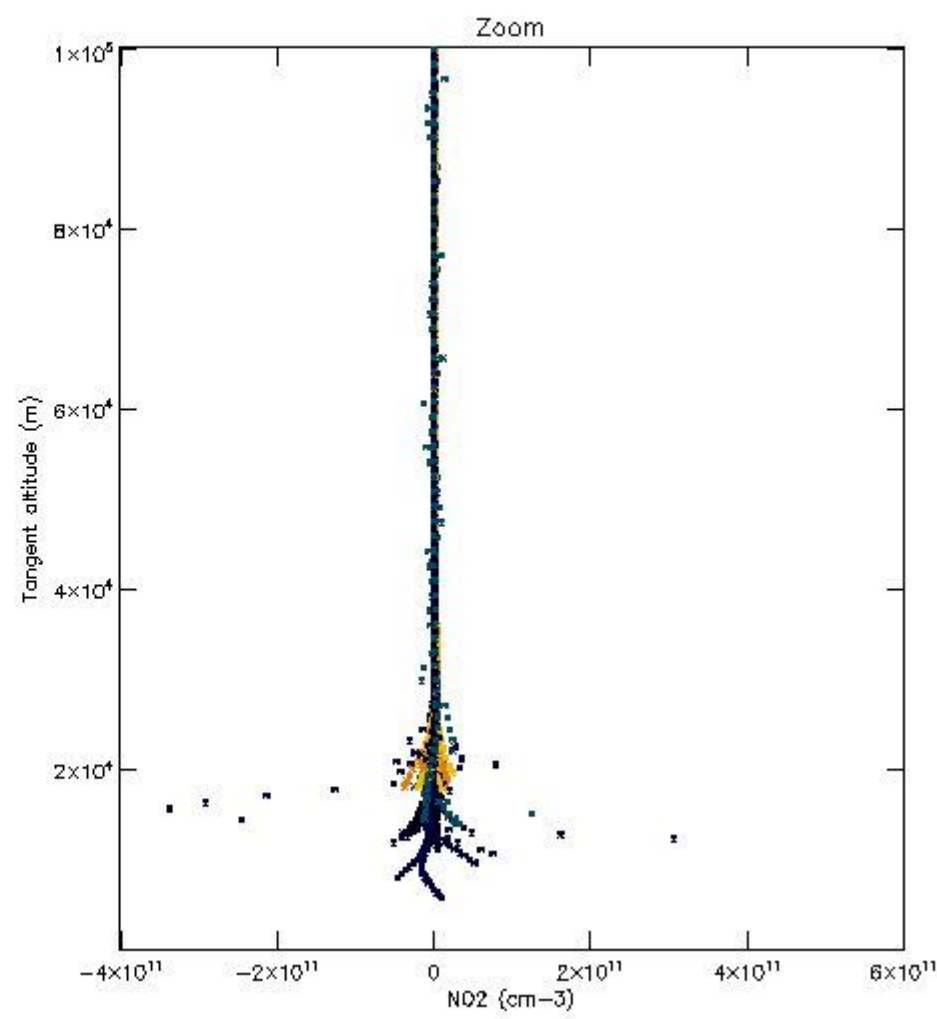
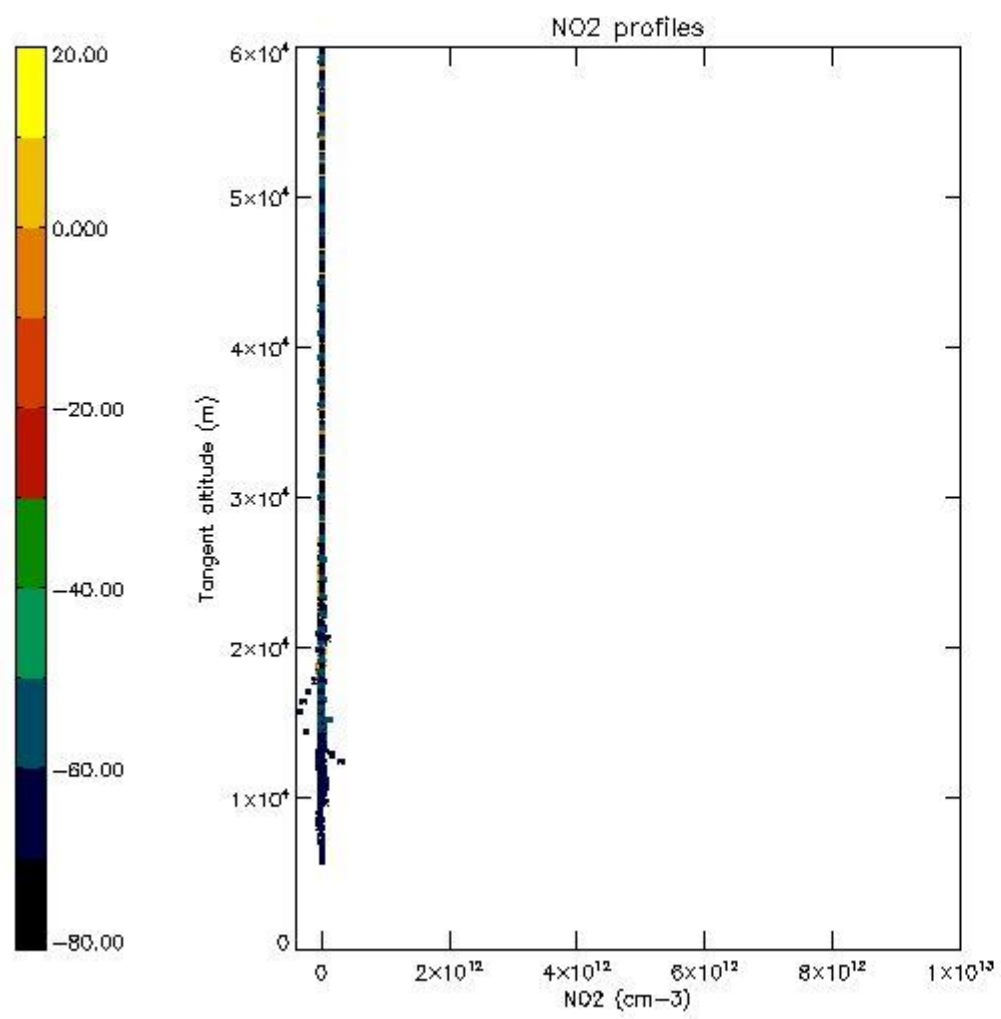
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



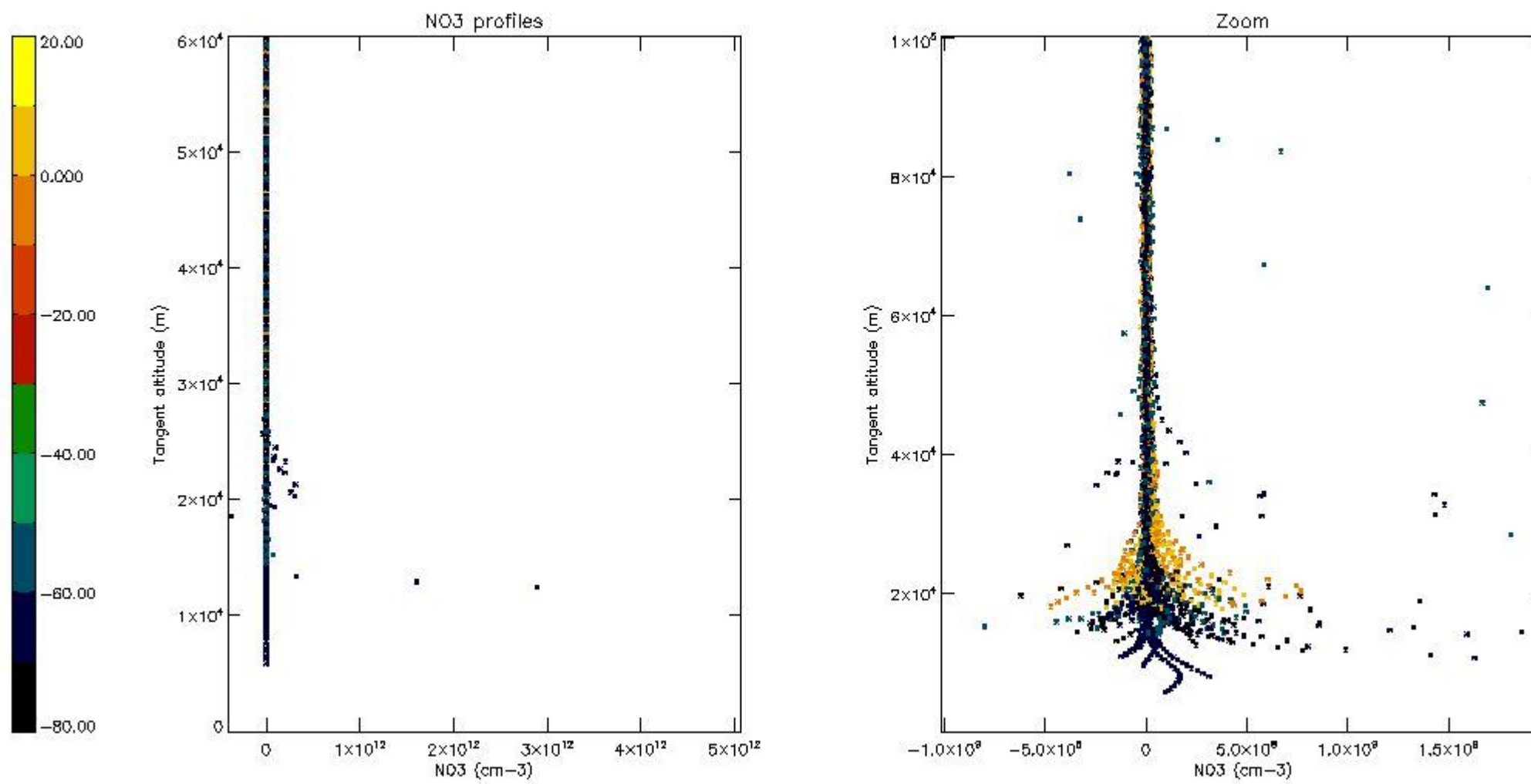
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

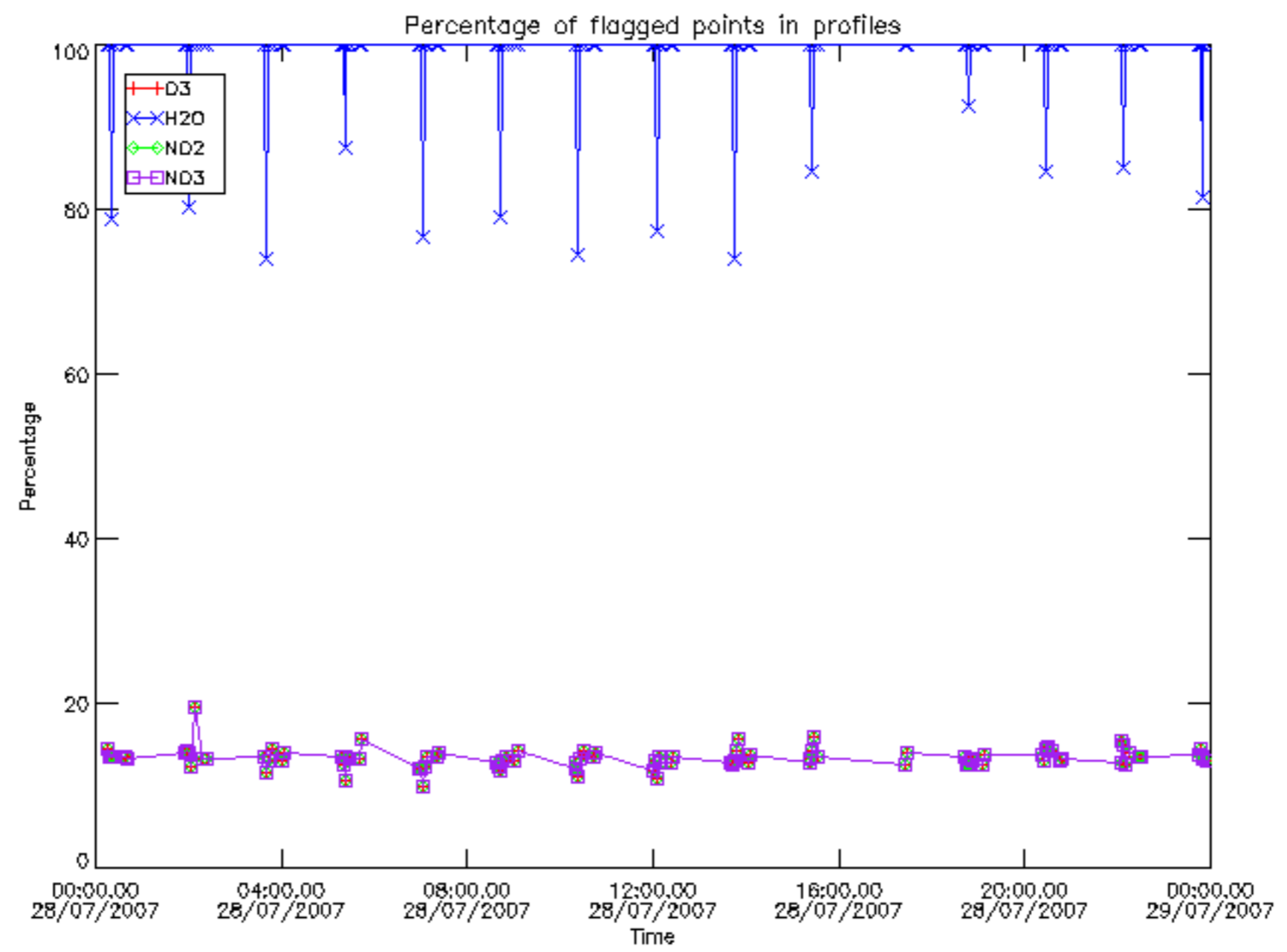
The colorbar represents the latitude.



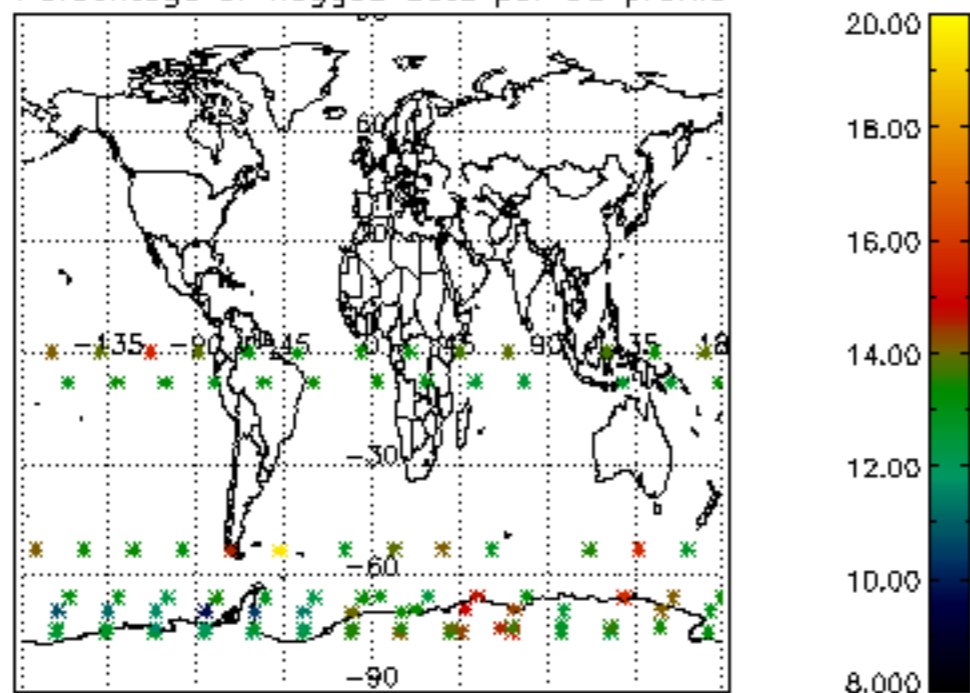
6. Auxiliary Data Files used for the production reported in section 2

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.

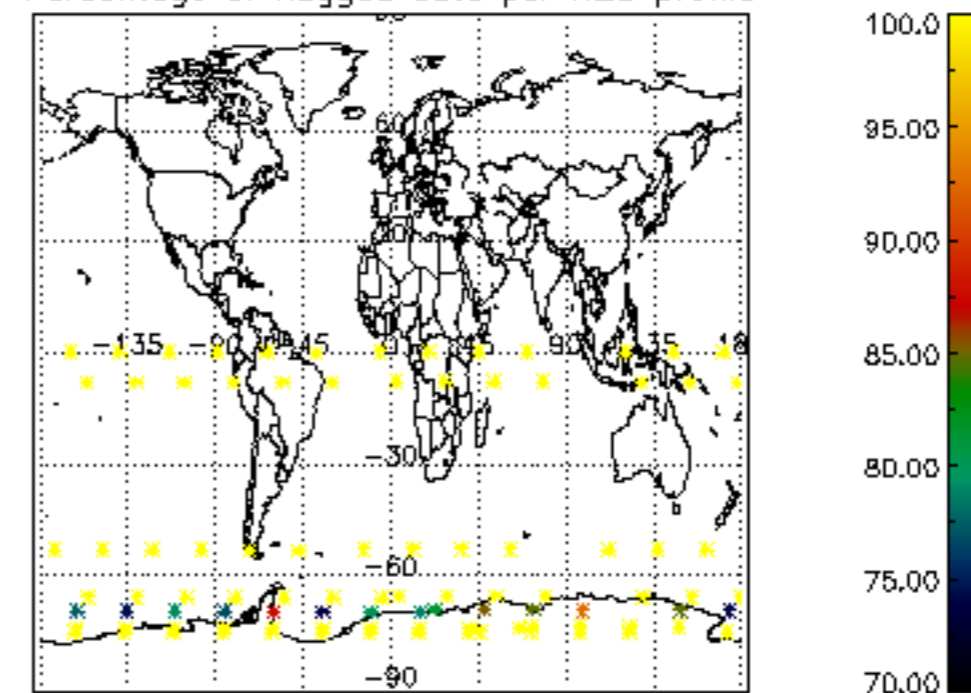
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	28-JUL-2007 00:09:18
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	28-JUL-2007 00:09:18
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	28-JUL-2007 00:09:18



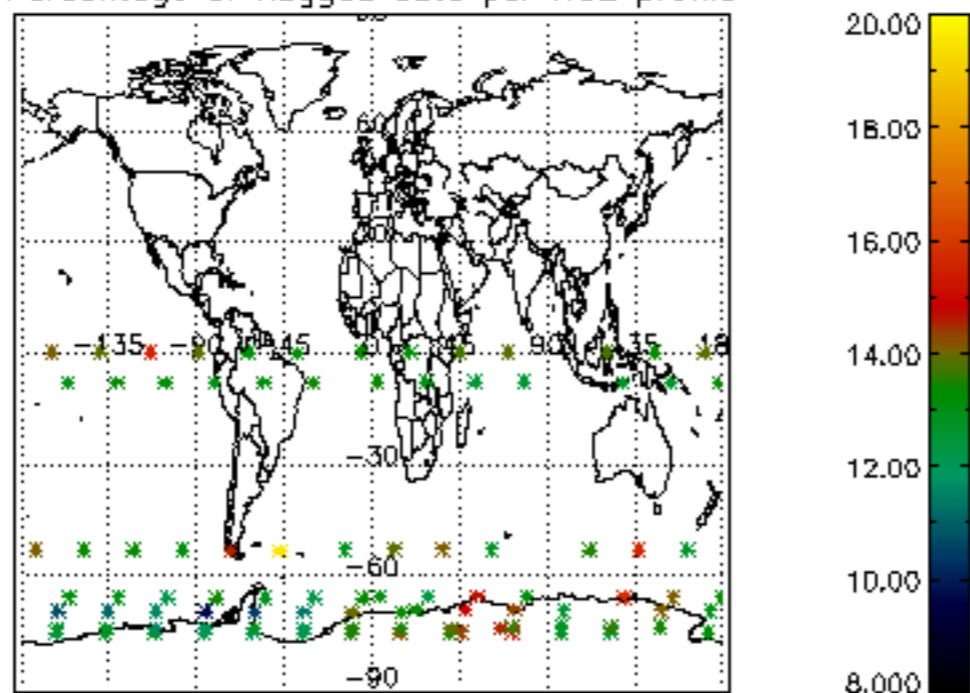
Percentage of flagged data per D3 profile



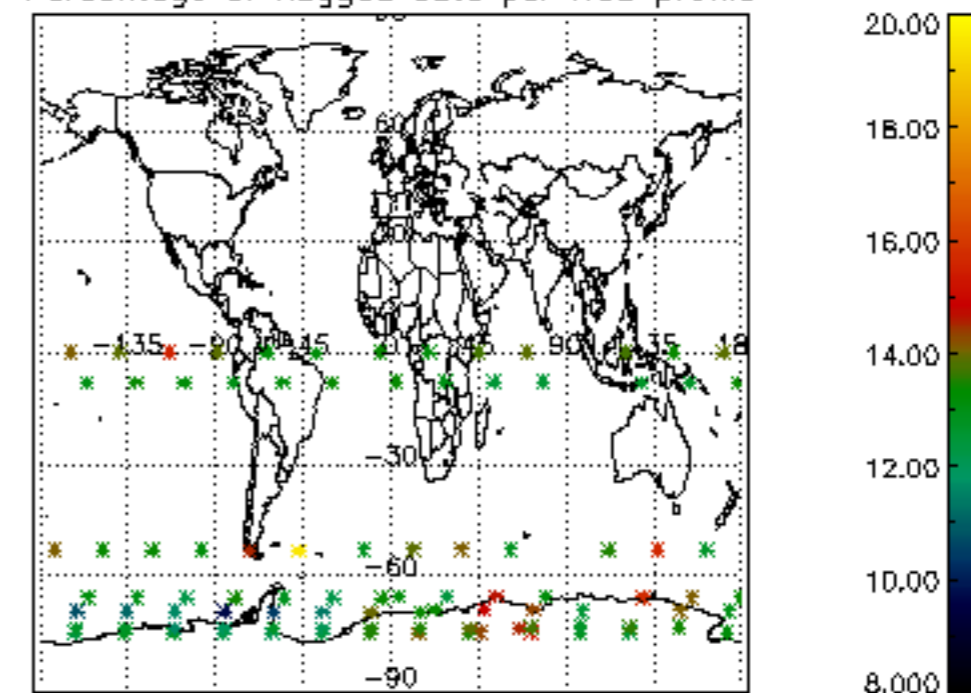
Percentage of flagged data per H2O profile

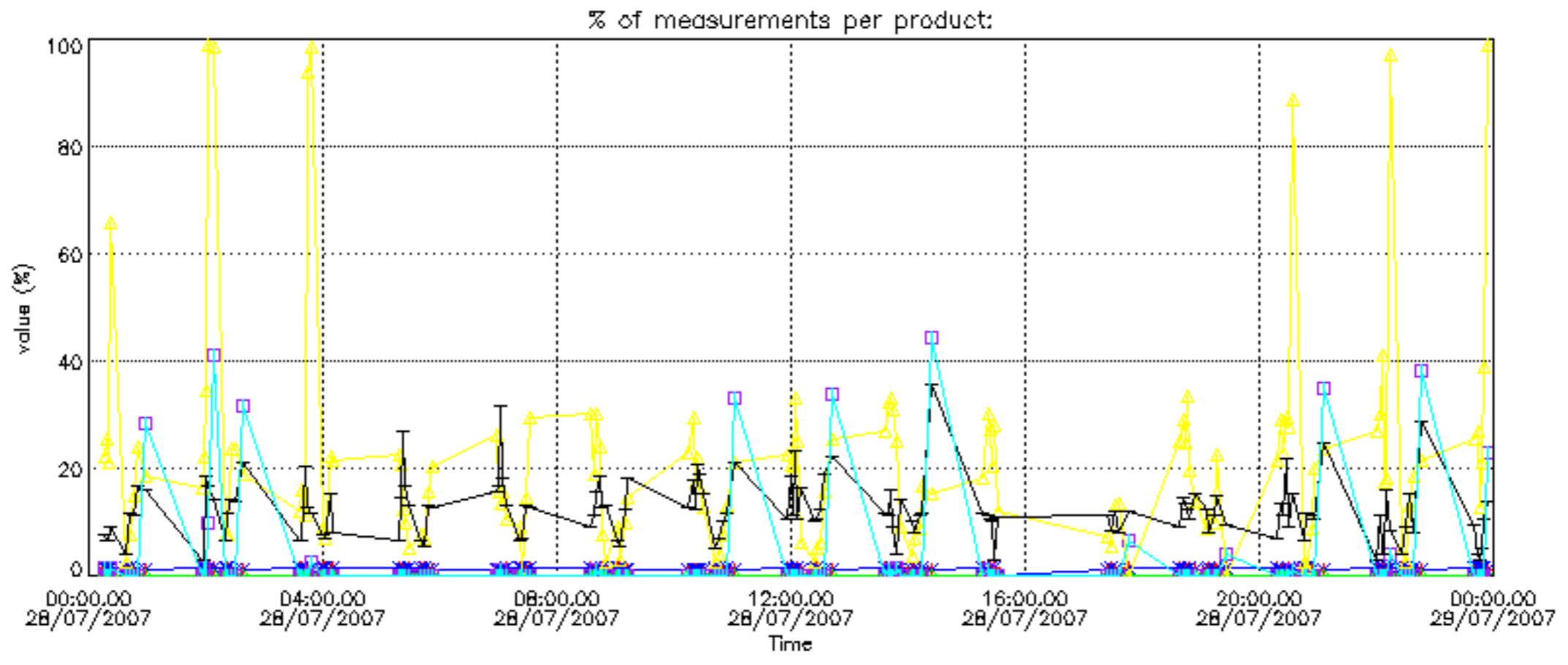


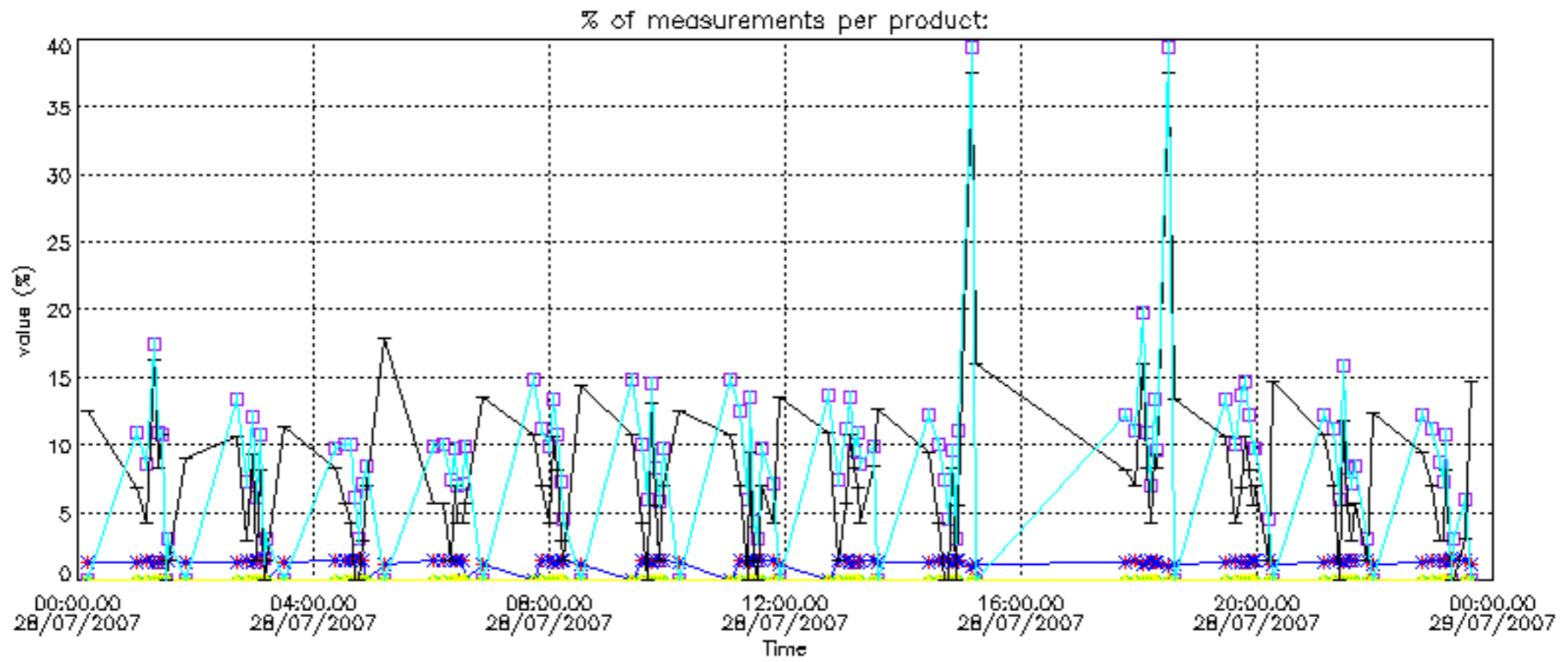
Percentage of flagged data per NO2 profile



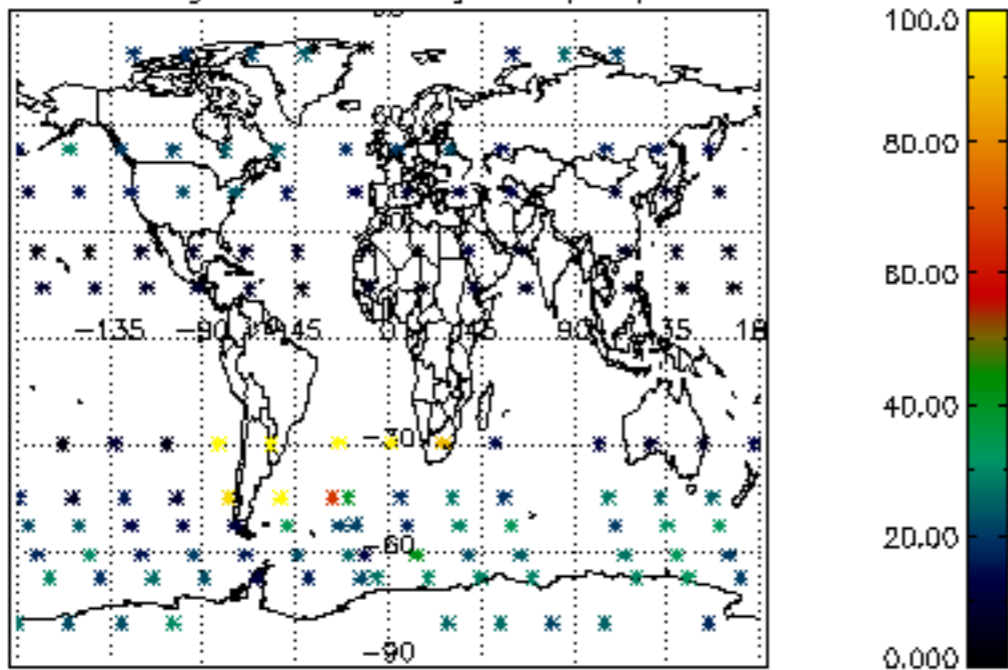
Percentage of flagged data per NO3 profile



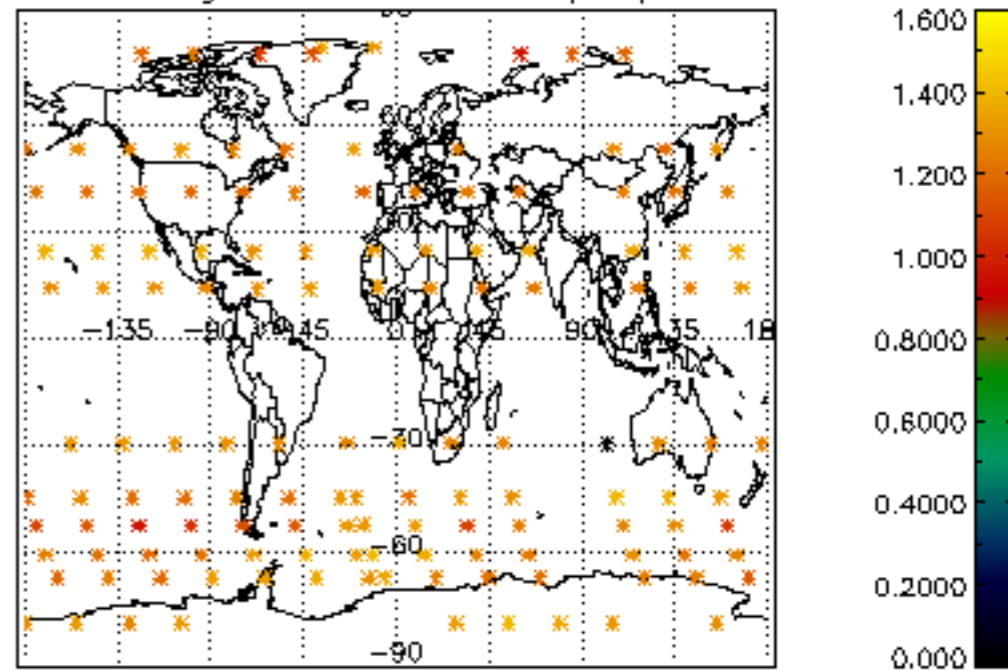




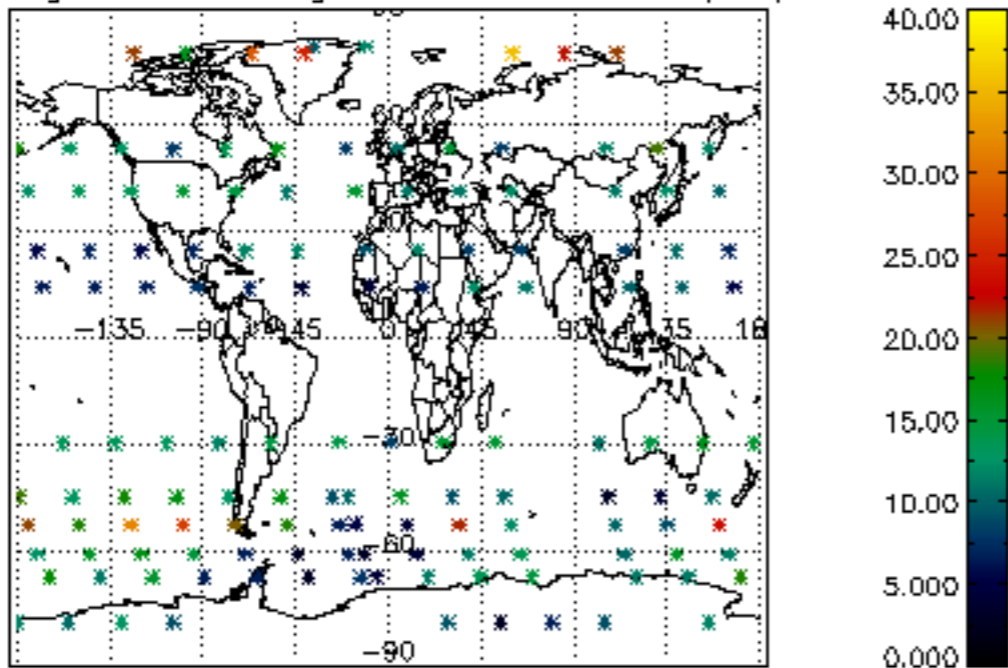
Percentage of cosmic ray hits per profile



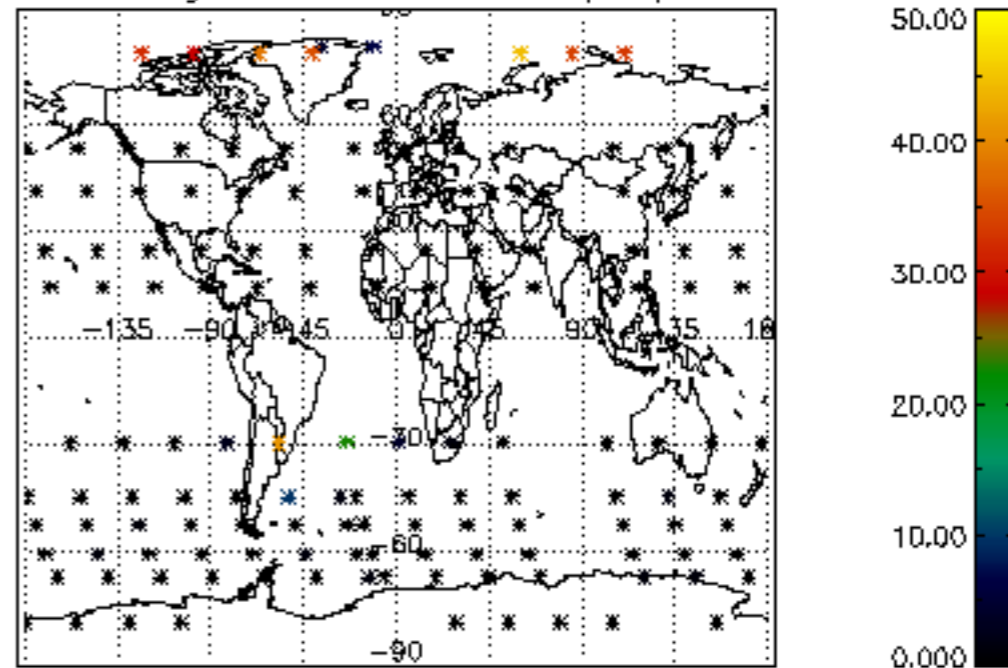
Percentage of datation errors per profile



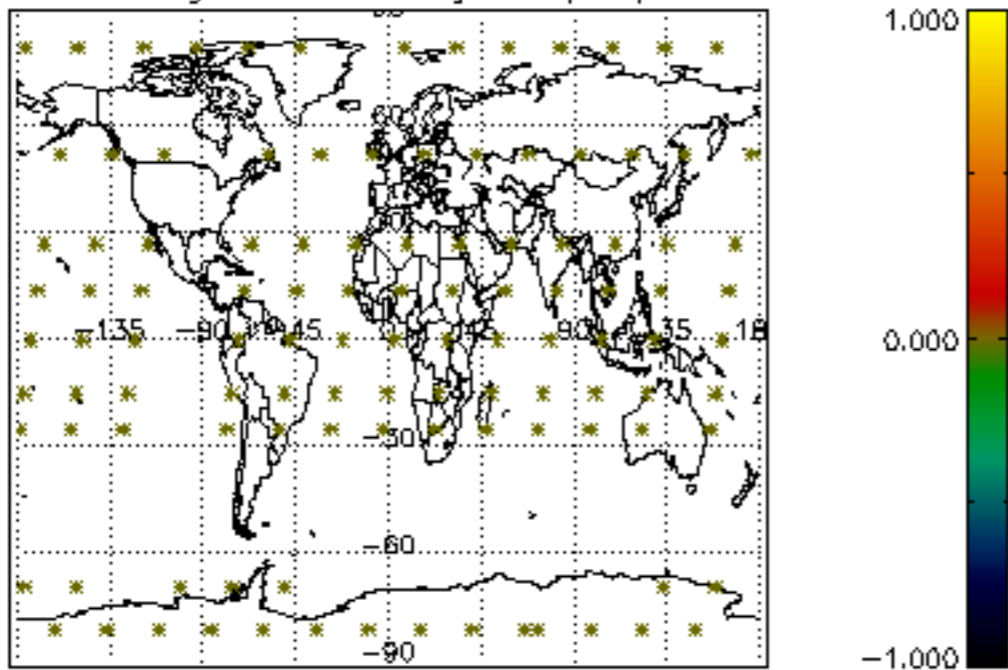
Percentage of star falling outside central band per profile



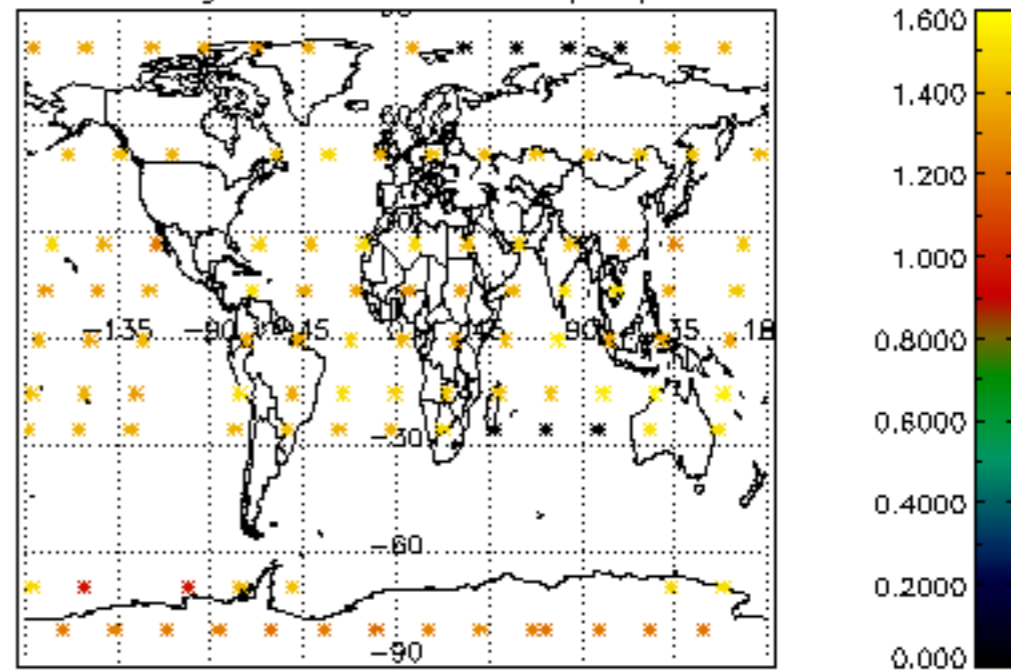
Percentage of saturation errors per profile



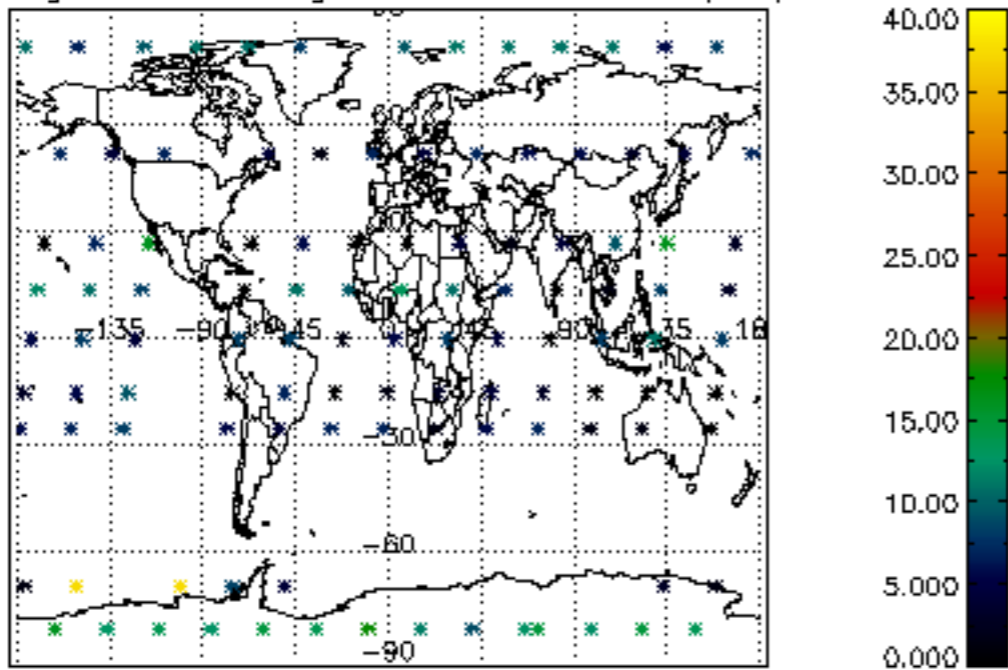
Percentage of cosmic ray hits per profile



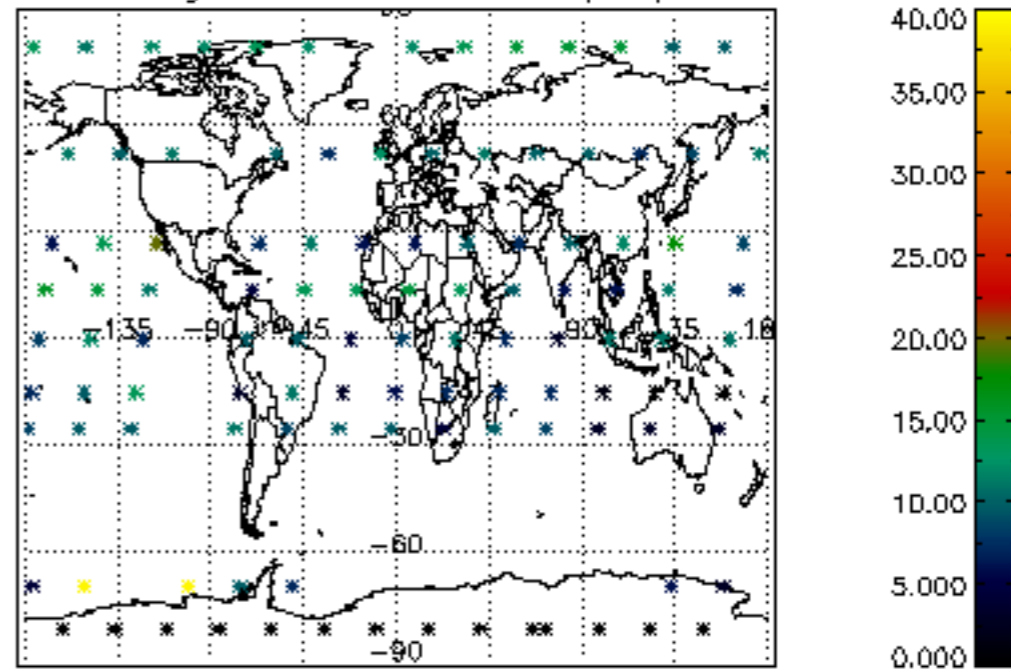
Percentage of datation errors per profile

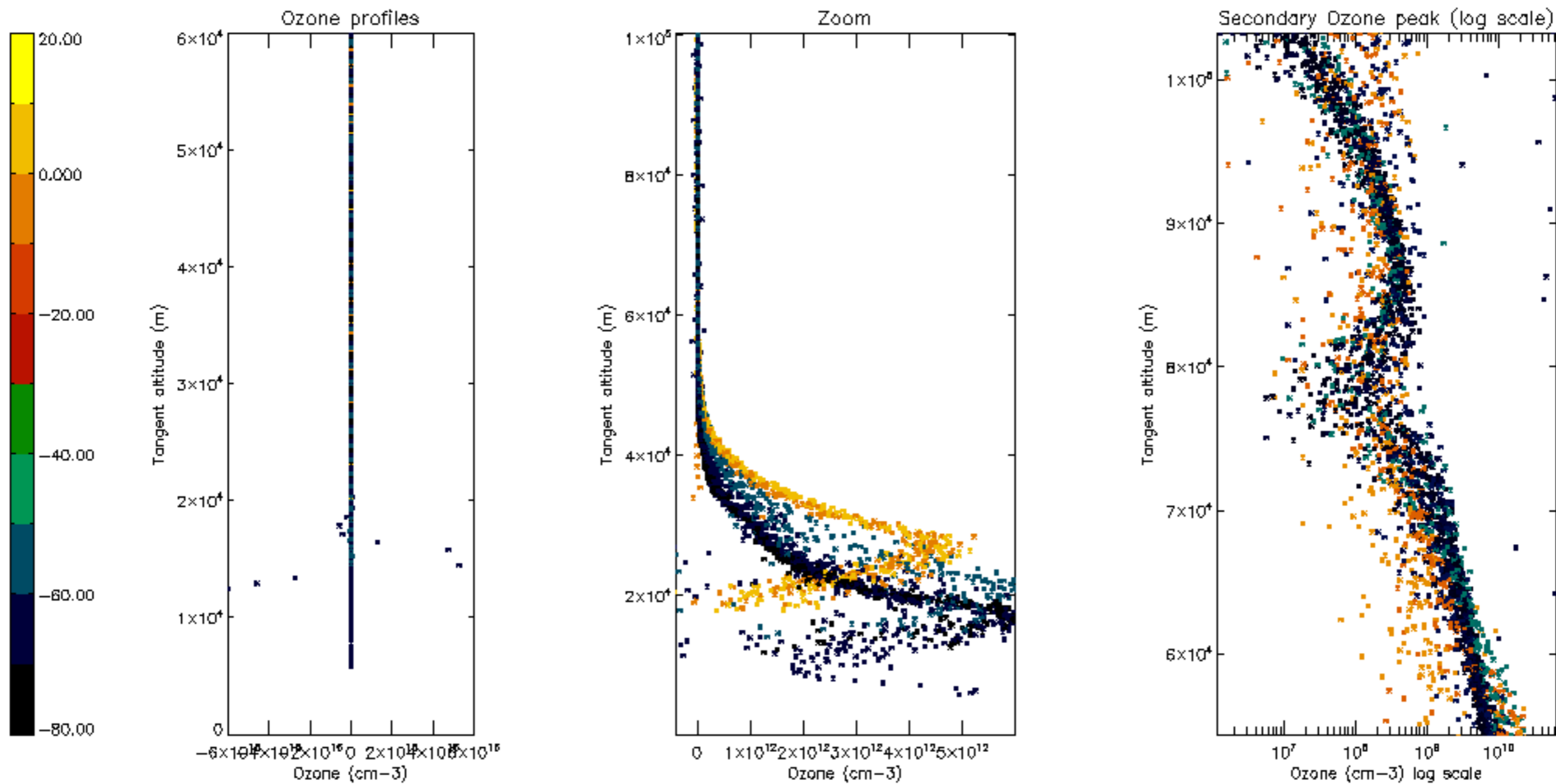


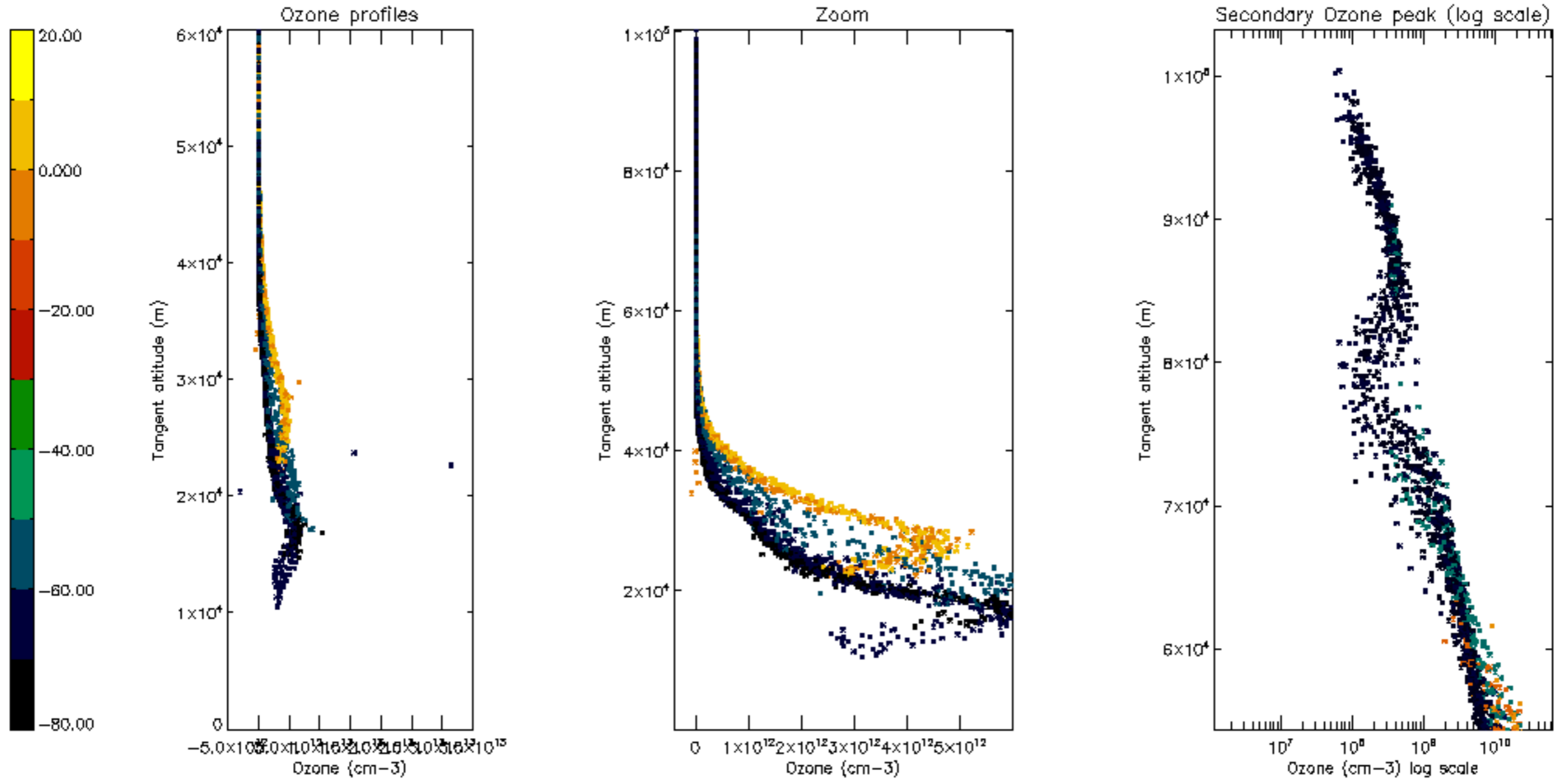
Percentage of star falling outside central band per profile

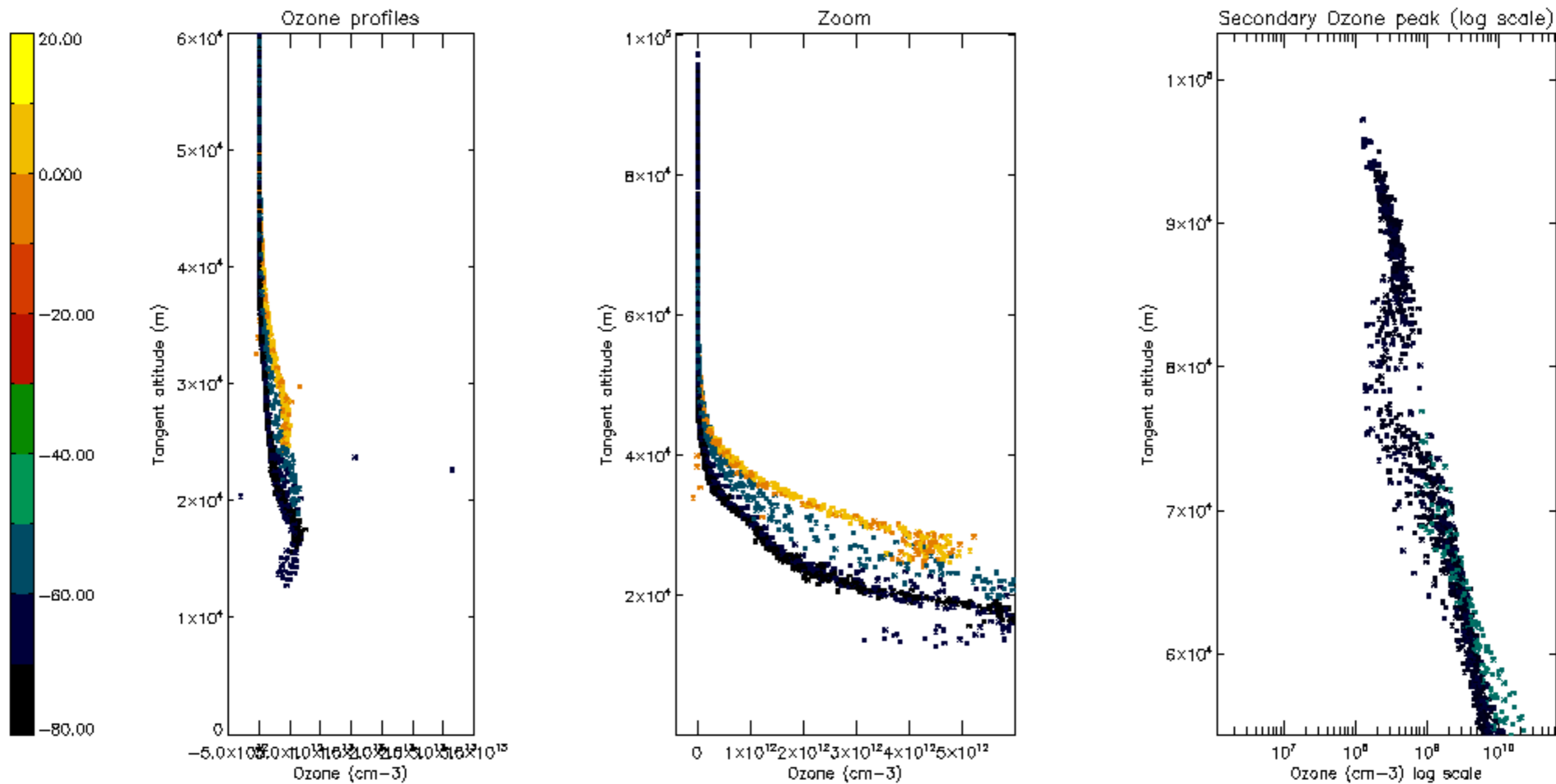


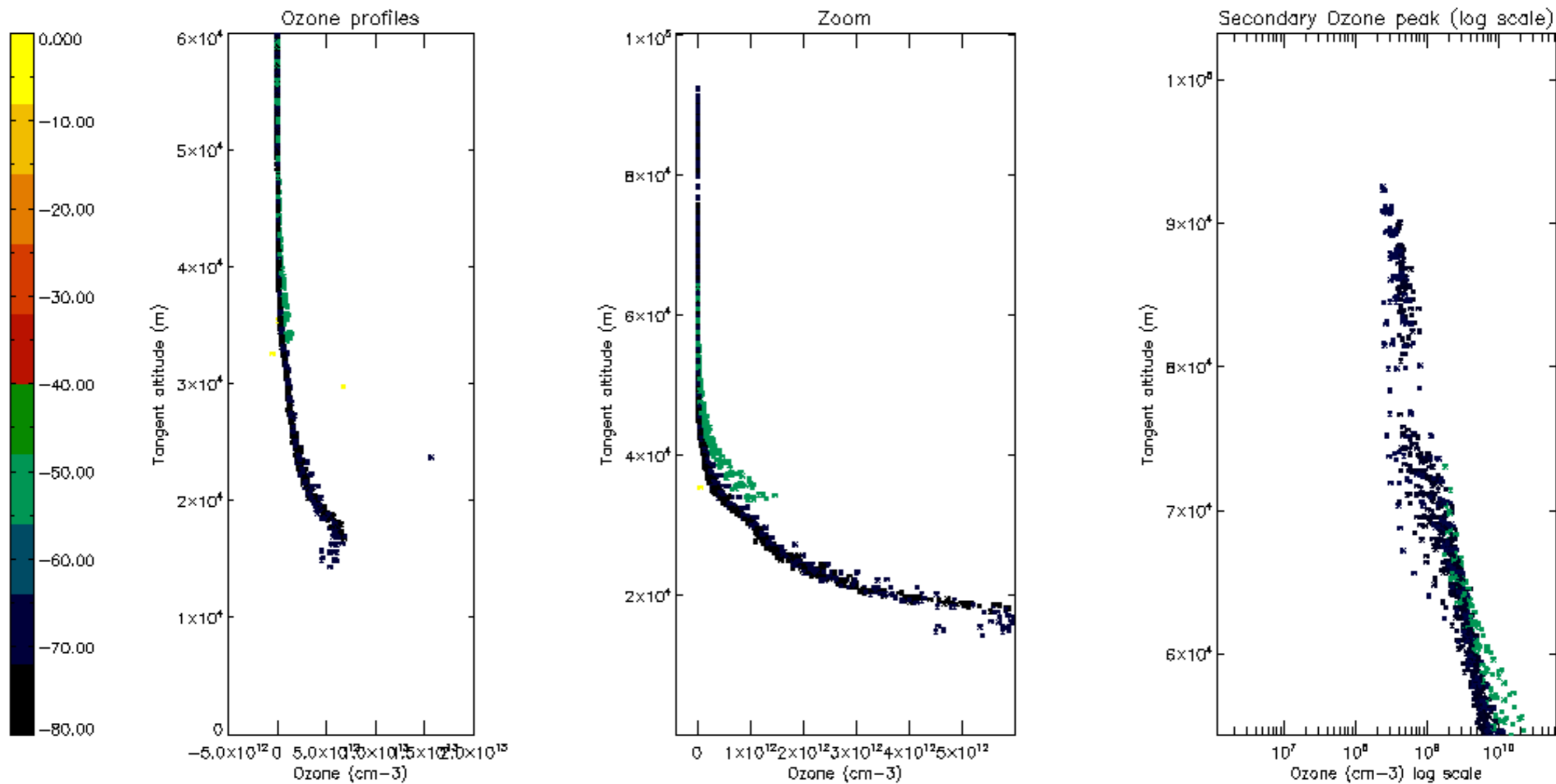
Percentage of saturation errors per profile

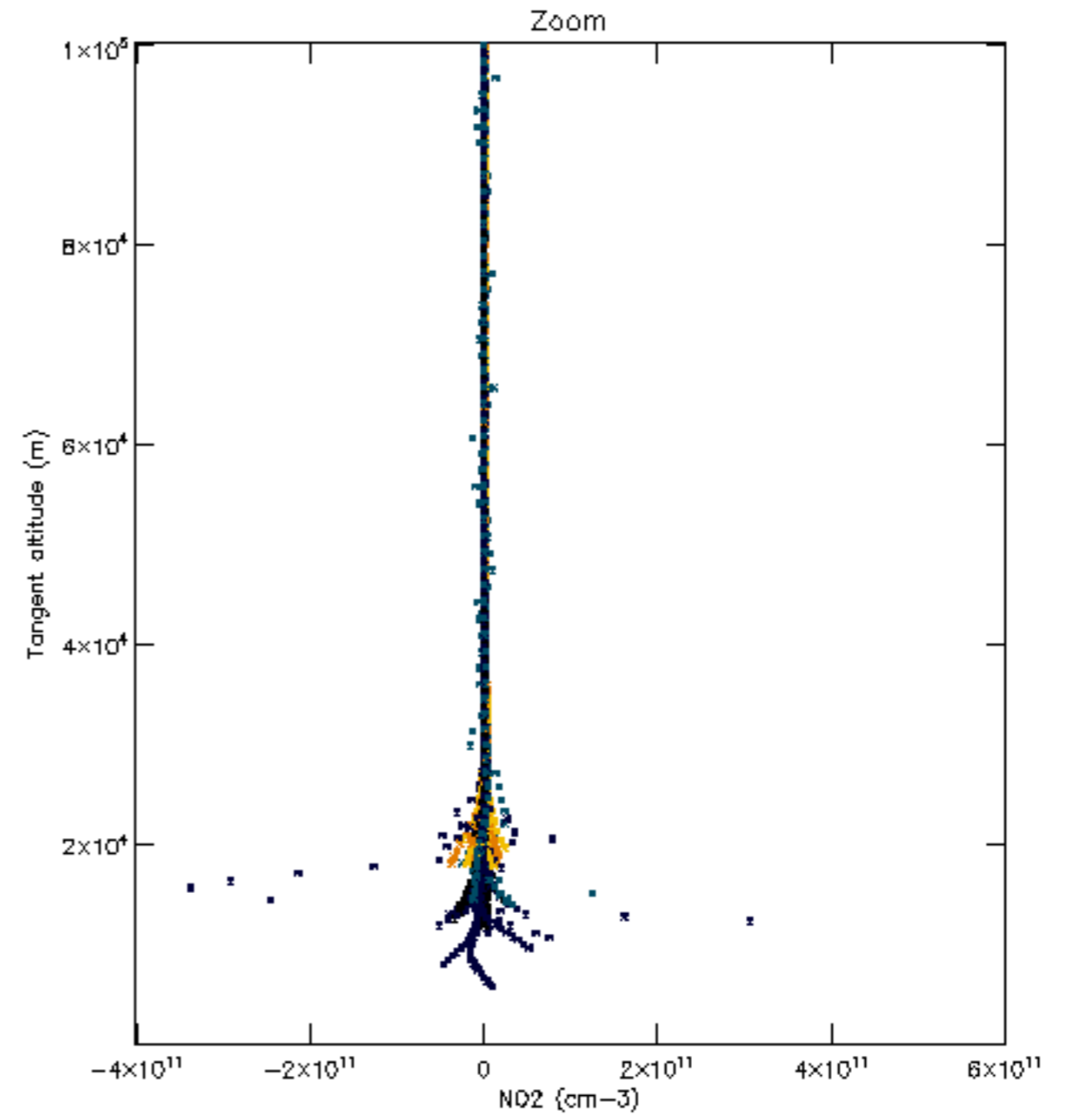
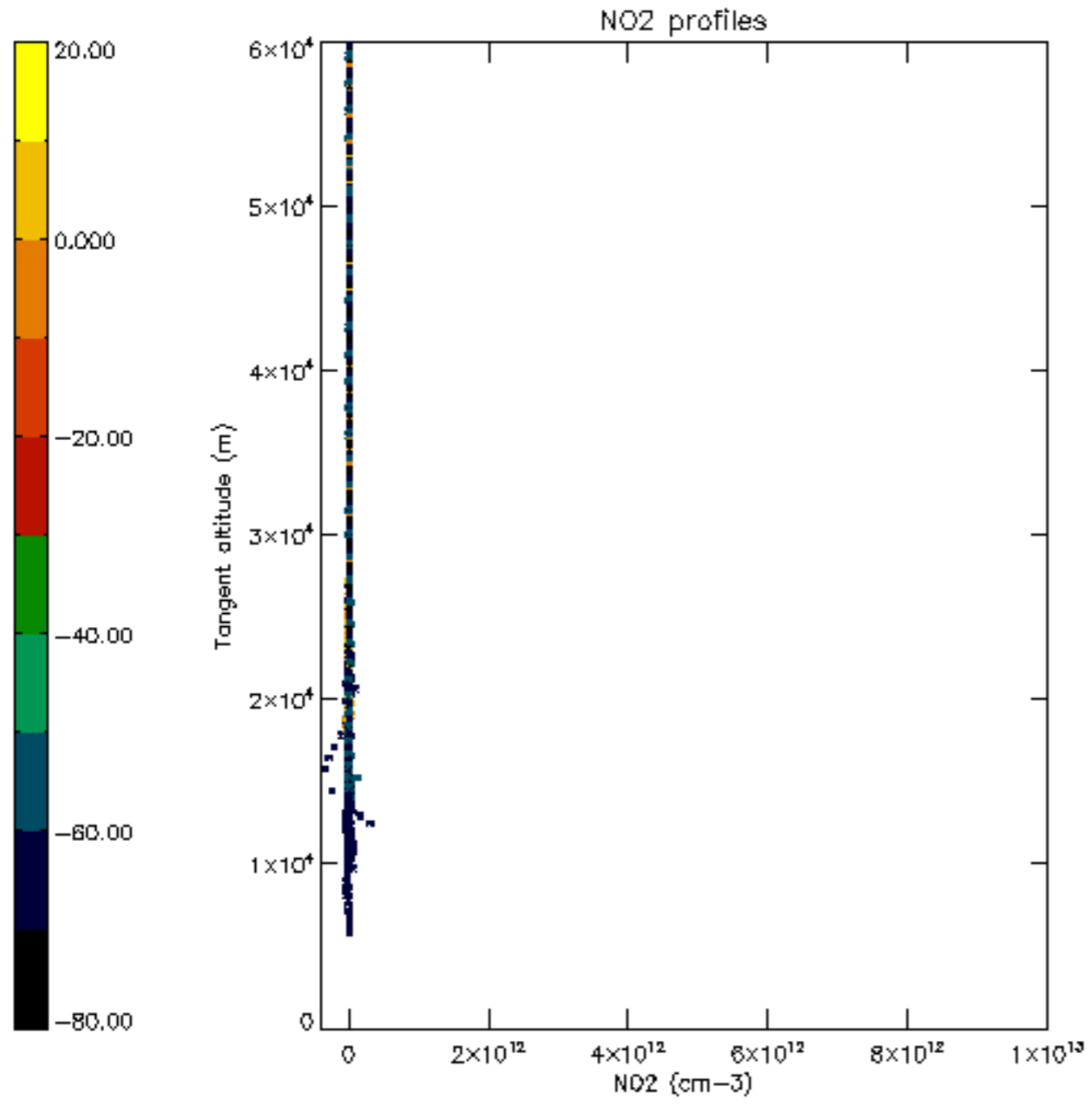


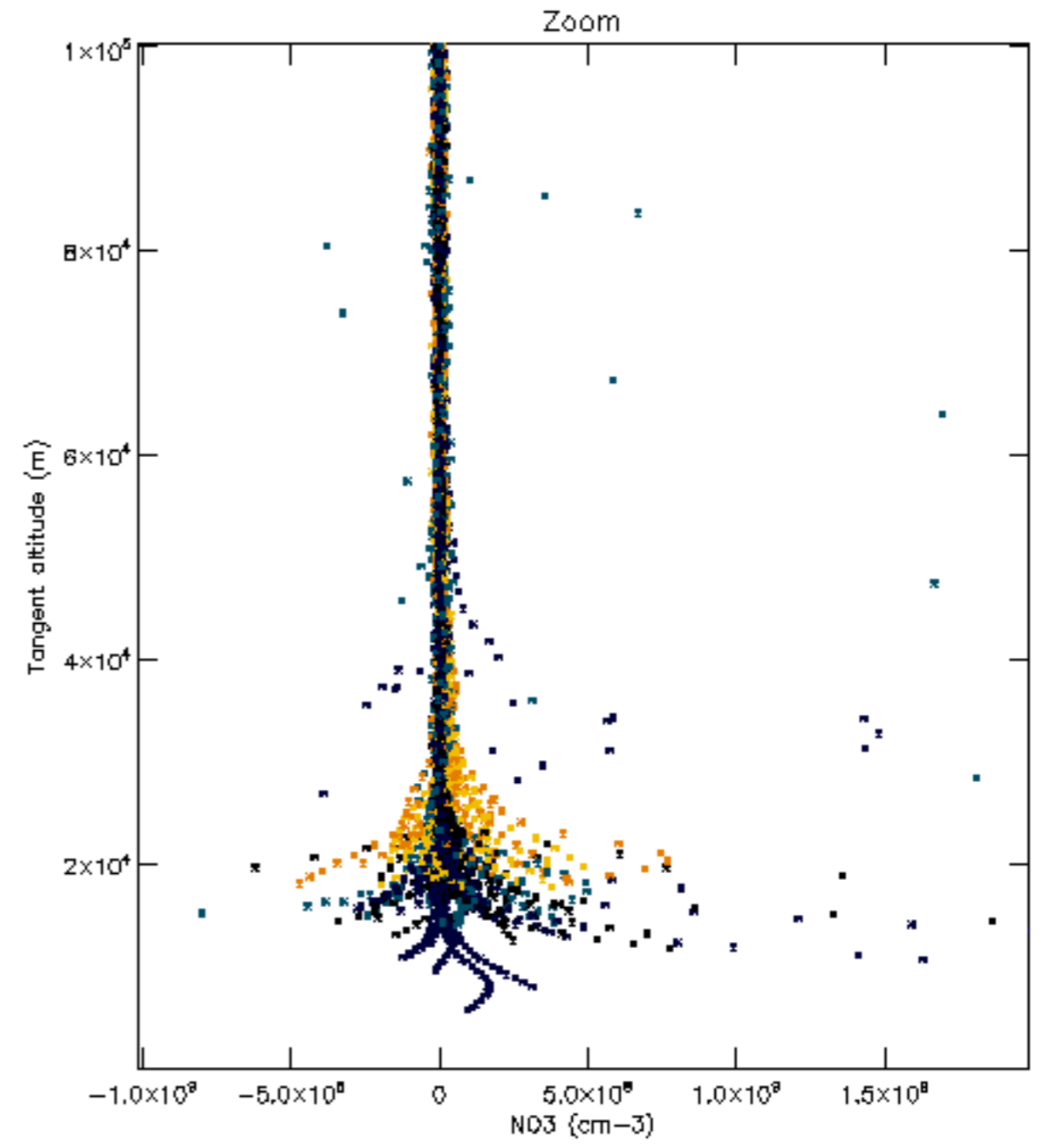
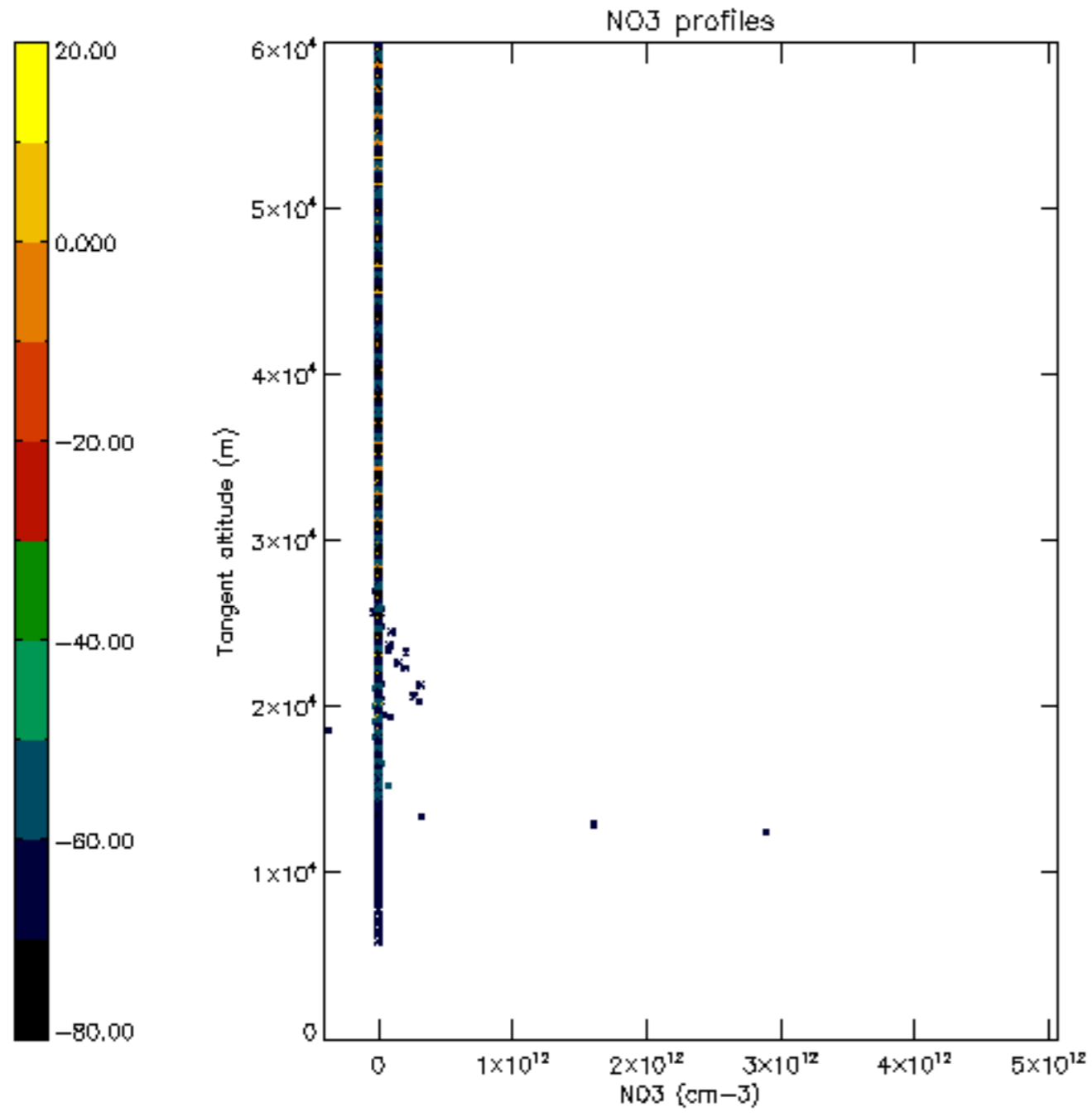


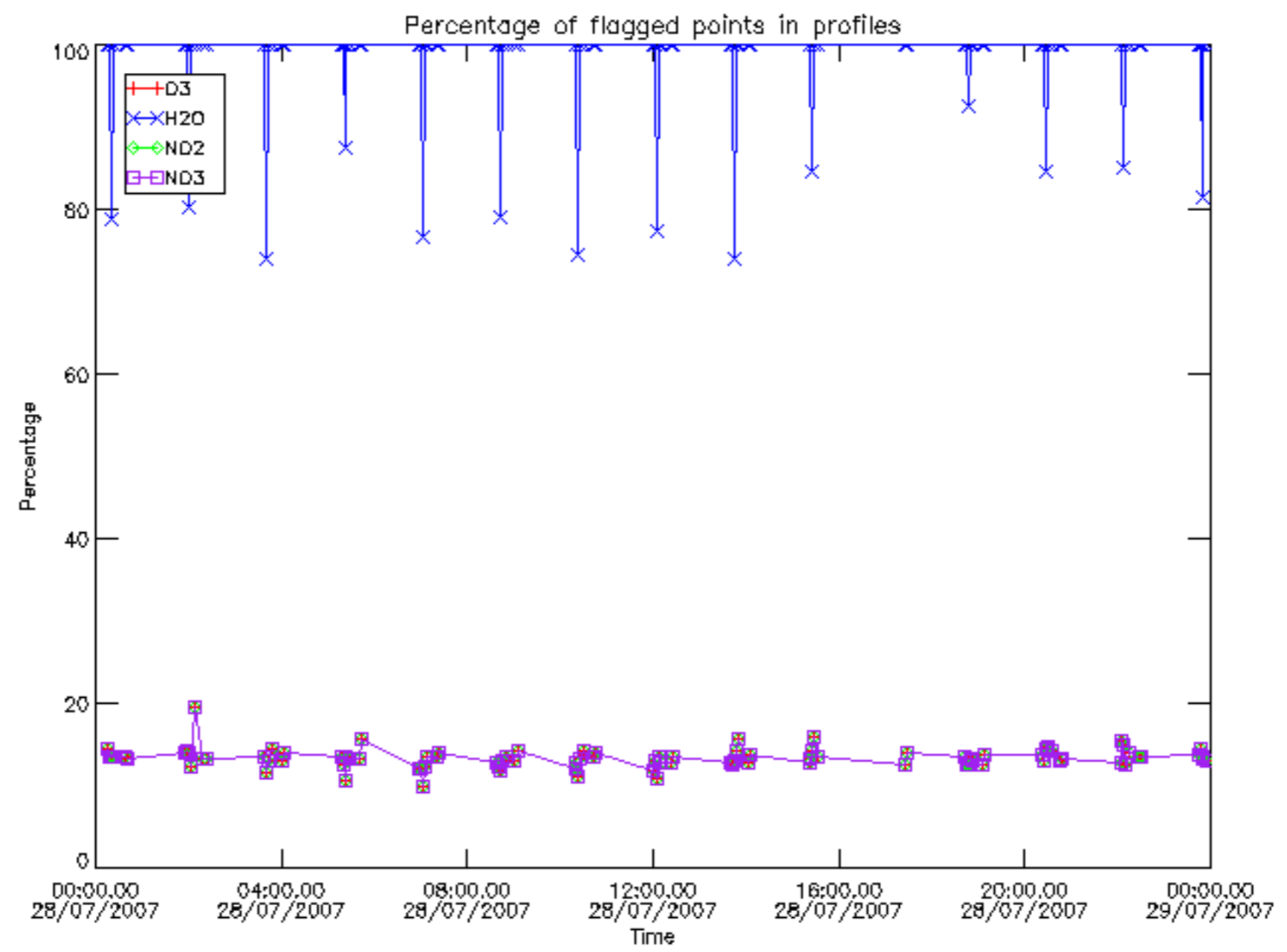




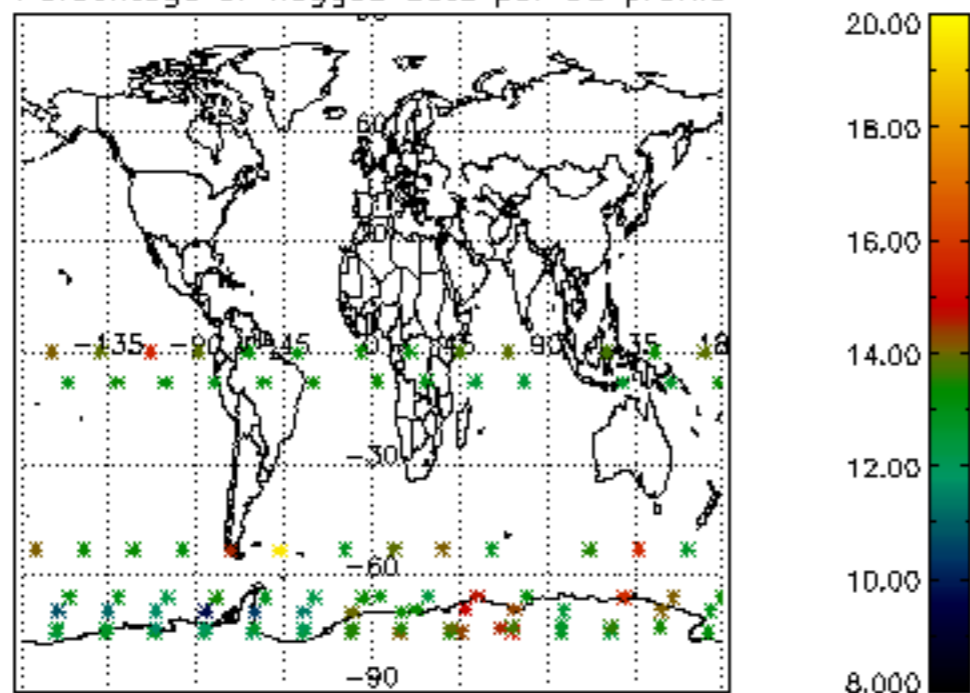




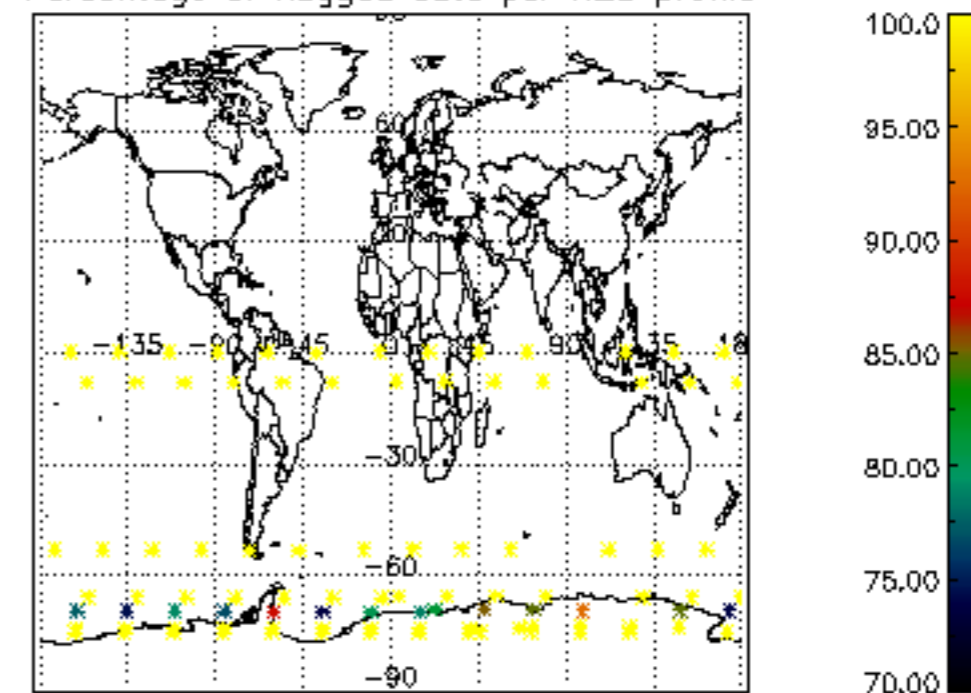




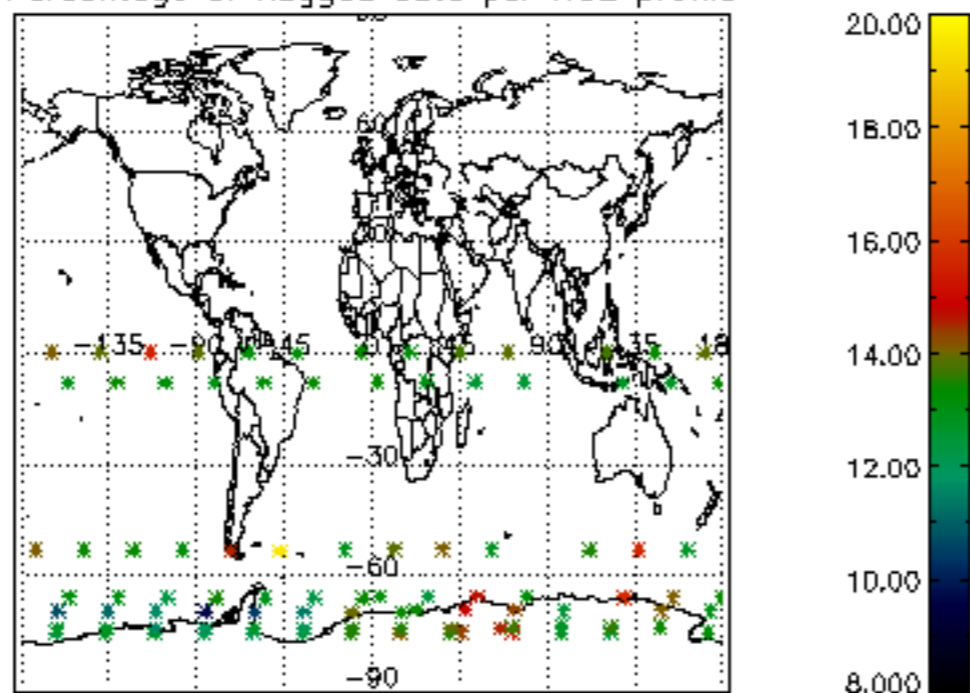
Percentage of flagged data per D3 profile



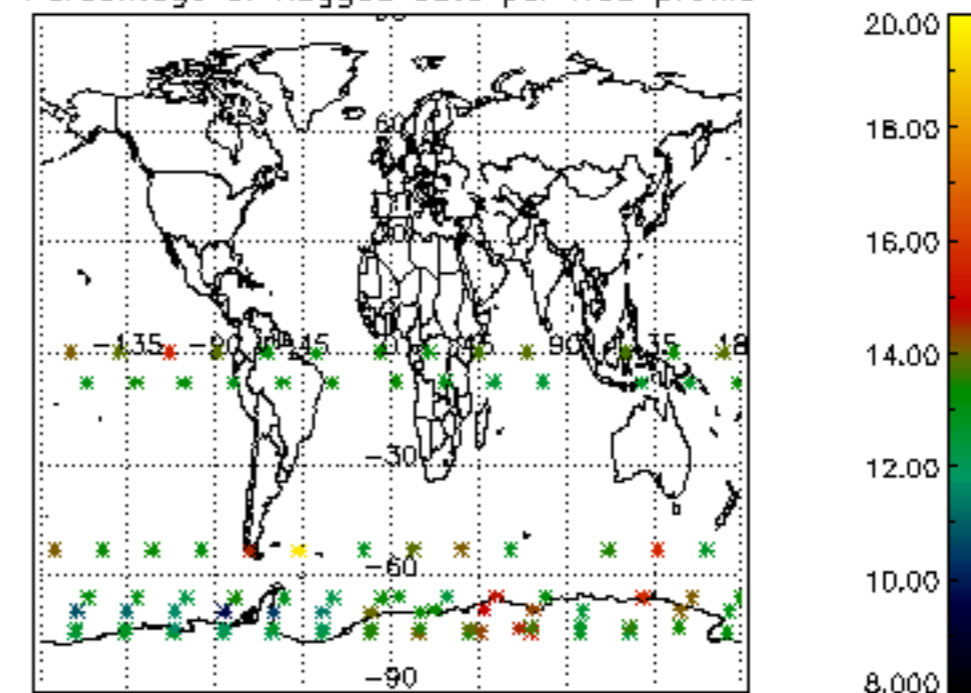
Percentage of flagged data per H2O profile

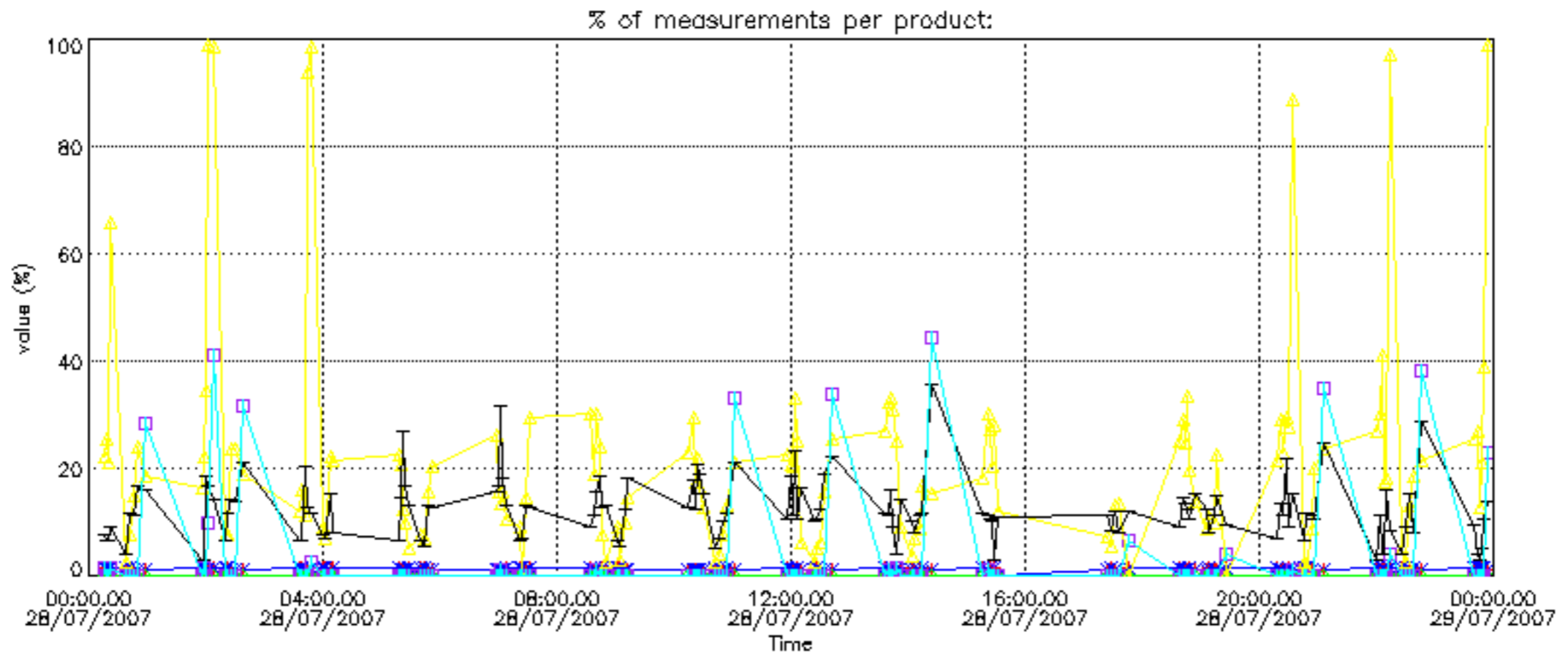


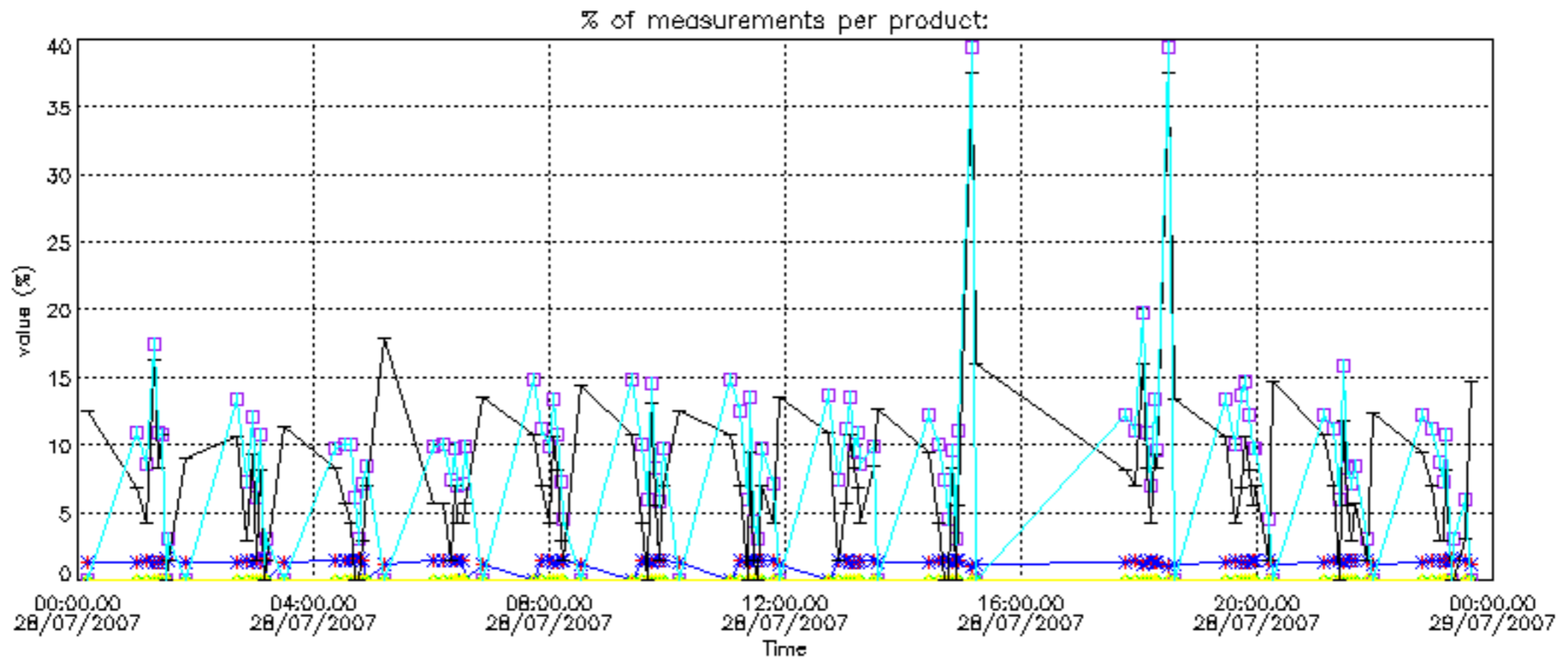
Percentage of flagged data per NO2 profile



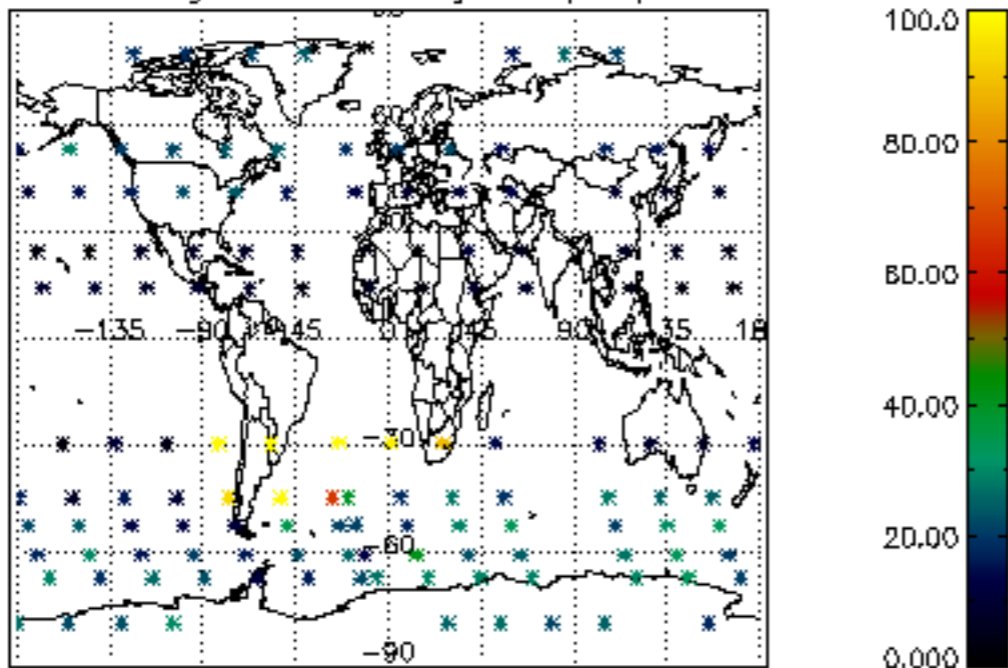
Percentage of flagged data per NO3 profile



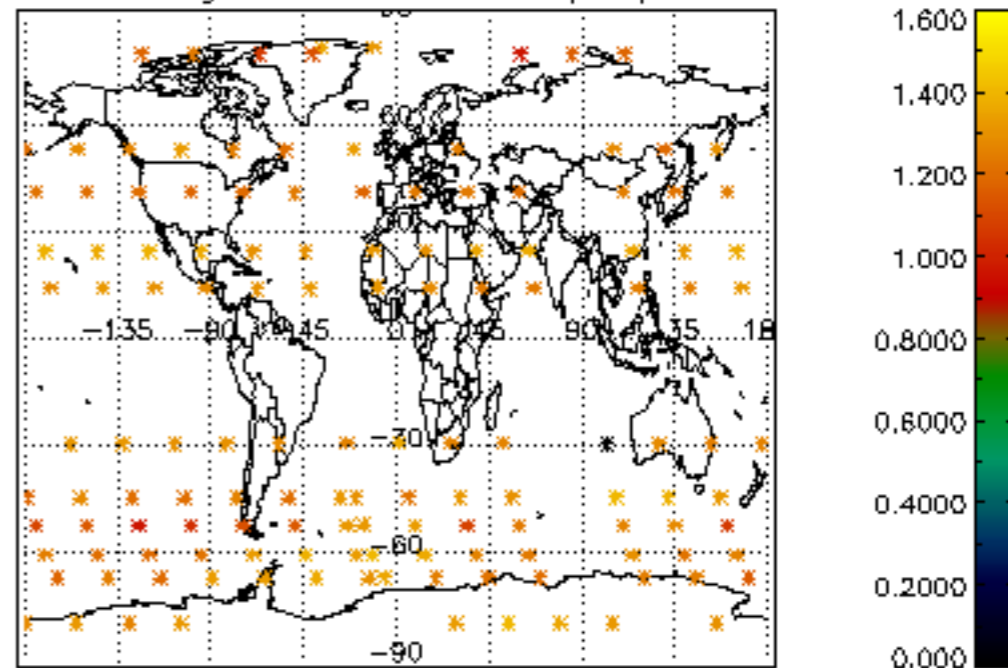




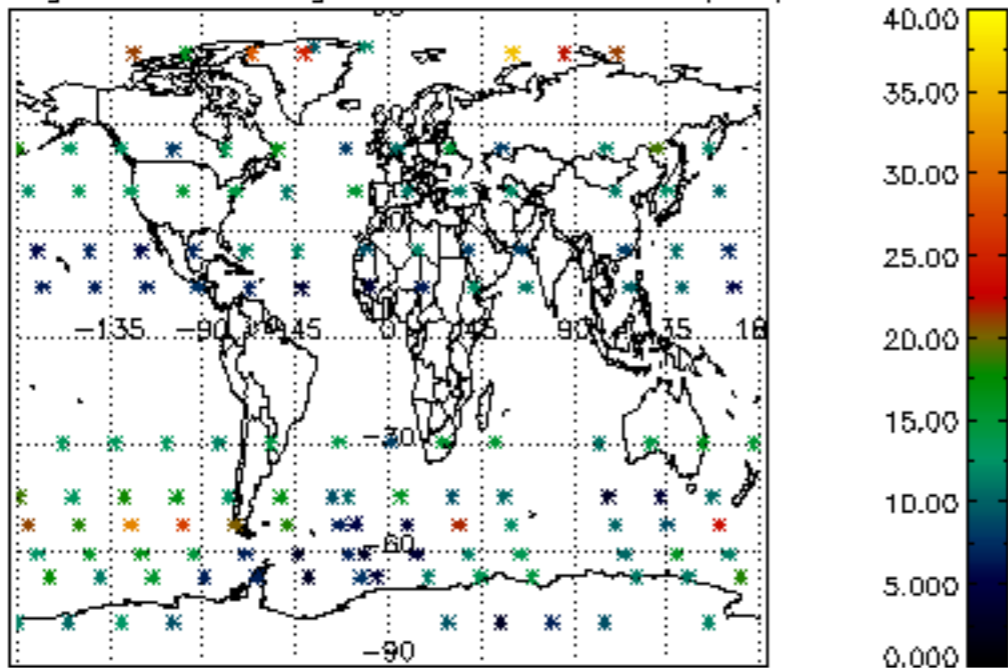
Percentage of cosmic ray hits per profile



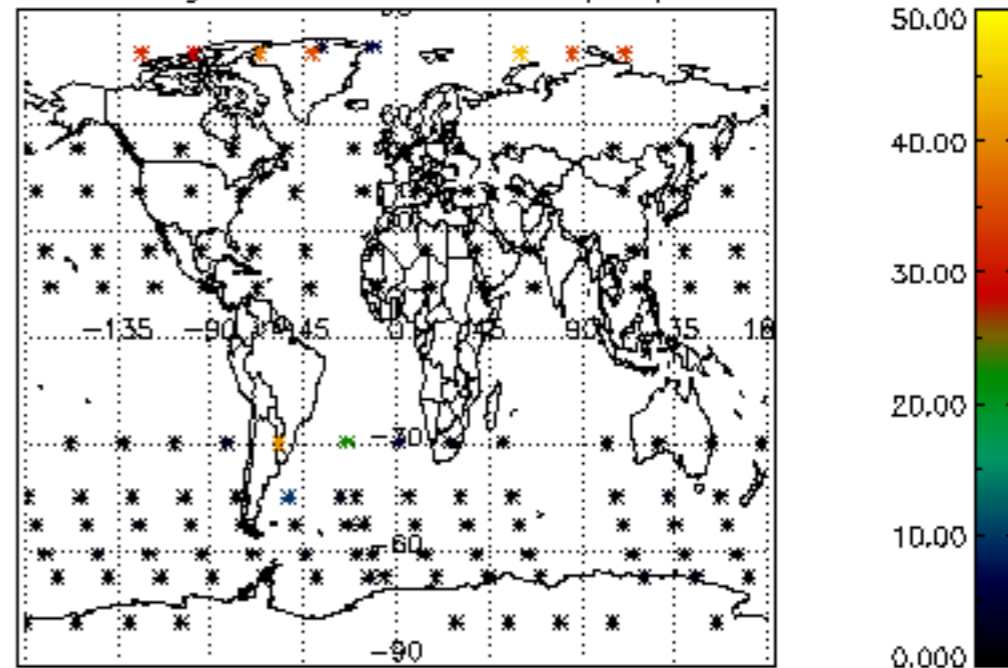
Percentage of datation errors per profile



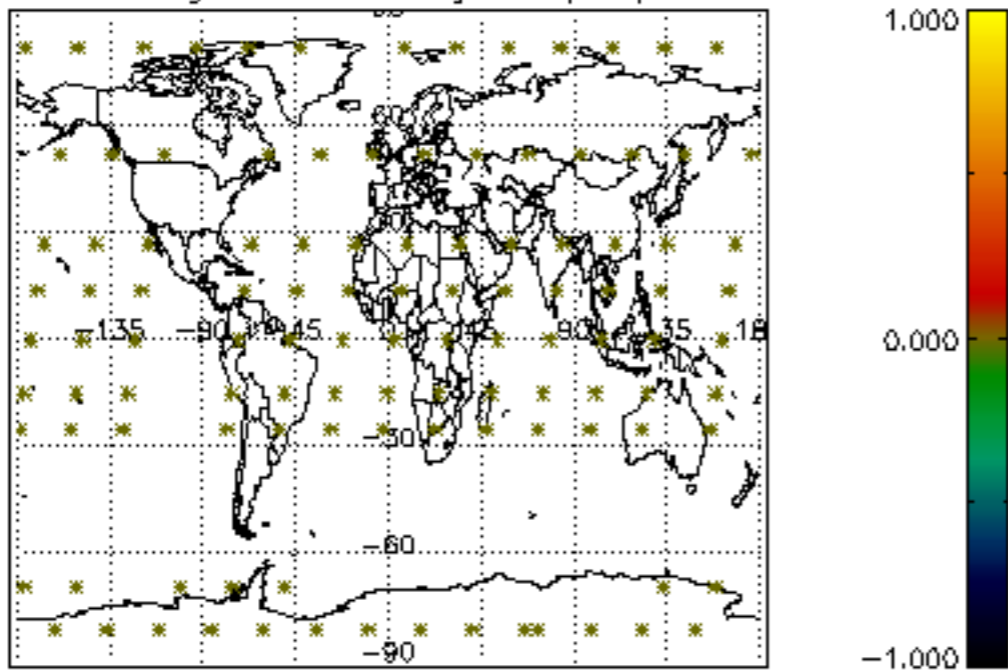
Percentage of star falling outside central band per profile



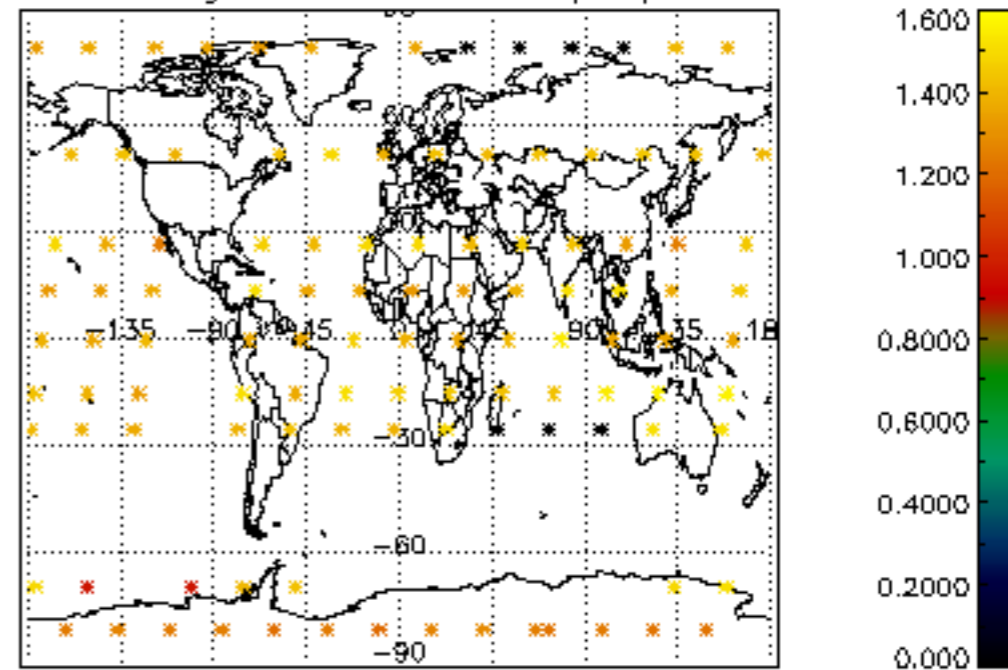
Percentage of saturation errors per profile



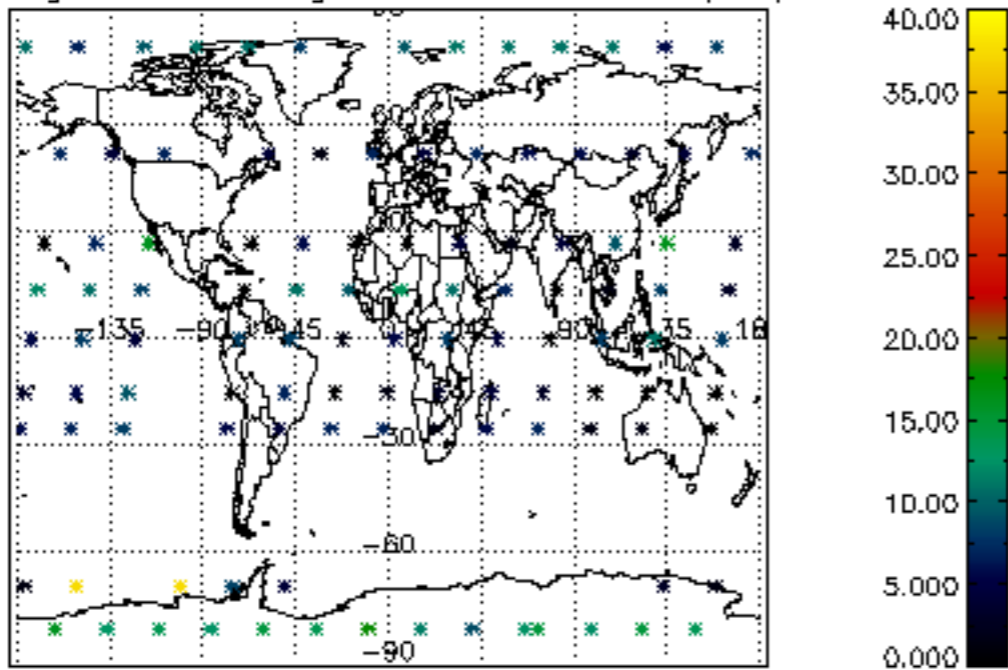
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

