

GOMOS Level 2 Daily Report

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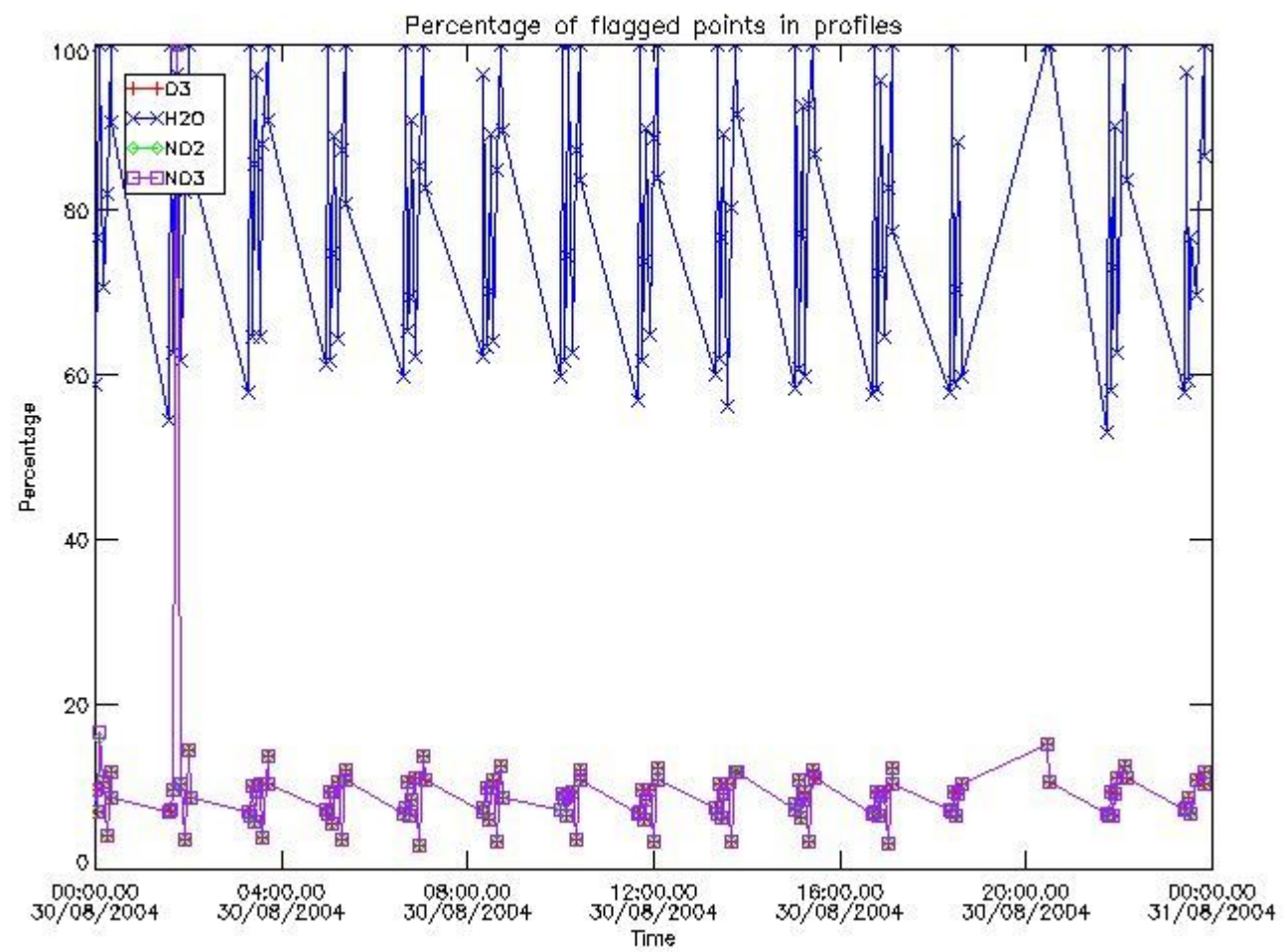
This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also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

Item	Value
Time of report generation	19APR2013 09:53:34
Data source version	GOMOS/6.01
Start time of products	30-08-2004 (30AUG2004 00:00:00)
Stop time of products	31-08-2004 (31AUG2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	448
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

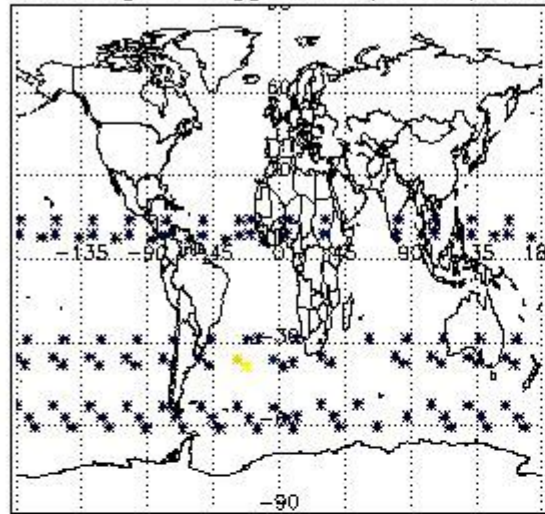
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20040830_000036_000000532029_00488_13067_3010.N1	30-AUG-2004 00:00:36	Dark	52.500	1	9Alp CMa	-1.4400	11000.	105	13067	No
2	GOM_NL__2PRFIN20040830_000317_000000802029_00488_13067_3011.N1	30-AUG-2004 00:03:17	Dark	79.500	7	19Bet Ori	0.10000	14000.	159	13067	No
3	GOM_NL__2PRFIN20040830_000529_000000612029_00488_13067_3012.N1	30-AUG-2004 00:05:29	Dark	61.000	139	9Bet Lep	2.8330	5600.0	122	13067	No
4	GOM_NL__2PRFIN20040830_001008_000000482029_00488_13067_3013.N1	30-AUG-2004 00:10:08	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	13067	No
5	GOM_NL__2PRFIN20040830_001512_000001412029_00489_13068_3150.N1	30-AUG-2004 00:15:12	Dark	141.00	165	34Gam Eri	2.9500	3200.0	282	13068	No
6	GOM_NL__2PRFIN20040830_002025_000000442029_00489_13068_3151.N1	30-AUG-2004 00:20:25	Dark	43.500	143	Alp Hyi	2.8570	7200.0	87	13068	No
7	GOM_NL__2PRFIN20040830_002139_000000592029_00489_13068_3152.N1	30-AUG-2004 00:21:39	Dark	59.000	9	Alp Eri	0.45300	24000.	118	13068	No
8	GOM_NL__2PRFIN20040830_002612_000000432029_00489_13068_3153.N1	30-AUG-2004 00:26:12	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	13068	No
9	GOM_NL__2PRFIN20040830_002739_000000632029_00489_13068_3154.N1	30-AUG-2004 00:27:39	Straylight	62.500	84	Alp Phe	2.3970	4500.0	125	13068	No
10	GOM_NL__2PRFIN20040830_002948_000000482029_00489_13068_3155.N1	30-AUG-2004 00:29:48	Straylight	48.000	31	Alp Gru	1.7340	15200.	96	13068	No
11	GOM_NL__2PRFIN20040830_003354_000000572029_00489_13068_3156.N1	30-AUG-2004 00:33:54	Straylight	57.000	18	24Alp PsA	1.1660	9700.0	114	13068	No
12	GOM_NL__2PRFIN20040830_003640_000000892029_00489_13068_3157.N1	30-AUG-2004 00:36:40	Bright	88.500	52	16Bet Cet	2.0370	4500.0	177	13068	No
13	GOM_NL__2PRFIN20040830_004155_000000432029_00489_13068_3158.N1	30-AUG-2004 00:41:55	Bright	43.000	154	22Bet Aqr	2.8990	5700.0	86	13068	No
14	GOM_NL__2PRFIN20040830_004326_000000452029_00489_13068_3159.N1	30-AUG-2004 00:43:26	Bright	45.000	162	34Alp Aqr	2.9440	5350.0	90	13068	No
15	GOM_NL__2PRFIN20040830_004627_000000432029_00489_13068_3160.N1	30-AUG-2004 00:46:27	Bright	42.500	61	8Eps Peg	2.1000	3900.0	85	13068	No
16	GOM_NL__2PRFIN20040830_004936_000000502029_00489_13068_3161.N1	30-AUG-2004 00:49:36	Bright	50.000	90	54Alp Peg	2.4870	11000.	100	13068	No
17	GOM_NL__2PRFIN20040830_005319_000000382029_00489_13068_3162.N1	30-AUG-2004 00:53:19	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	13068	No
18	GOM_NL__2PRFIN20040830_005507_000000392029_00489_13068_3163.N1	30-AUG-2004 00:55:07	Bright	38.500	66	37Gam Cyg	2.2080	5900.0	77	13068	No
19	GOM_NL__2PRFIN20040830_005629_000000372029_00489_13068_3164.N1	30-AUG-2004 00:56:29	Bright	36.500	19	50Alp Cyg	1.2460	10500.	73	13068	No
20	GOM_NL__2PRFIN20040830_005824_000000682029_00489_13068_3165.N1	30-AUG-2004 00:58:24	Bright	68.000	58	21Alp And	2.0730	11000.	136	13068	No
21	GOM_NL__2PRFIN20040830_010130_000000392029_00489_13068_3166.N1	30-AUG-2004 01:01:30	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	13068	No
22	GOM_NL__2PRFIN20040830_010431_000000482029_00489_13068_3167.N1	30-AUG-2004 01:04:31	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	13068	No
23	GOM_NL__2PRFIN20040830_010641_000000482029_00489_13068_3168.N1	30-AUG-2004 01:06:41	Bright	47.500	76	27Gam Cas	2.3000	30000.	95	13068	No
24	GOM_NL__2PRFIN20040830_010846_000000372029_00489_13068_3169.N1	30-AUG-2004 01:08:46	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	13068	No
25	GOM_NL__2PRFIN20040830_011400_000000572029_00489_13068_3170.N1	30-AUG-2004 01:14:00	Bright	56.500	160	23Gam Per	2.9300	4700.0	113	13068	No
26	GOM_NL__2PRFIN20040830_011611_000000662029_00489_13068_3171.N1	30-AUG-2004 01:16:11	Bright	65.500	35	33Alp Per	1.7950	6250.0	131	13068	No
27	GOM_NL__2PRFIN20040830_012116_000000572029_00489_13068_3172.N1	30-AUG-2004 01:21:16	Bright	57.000	6	13Alp Aur	0.080000	3400.0	114	13068	No
28	GOM_NL__2PRFIN20040830_012450_000000472029_00489_13068_3173.N1	30-AUG-2004 01:24:50	Bright	46.500	107	37The Aur	2.6490	11000.	93	13068	No
29	GOM_NL__2PRFIN20040830_012703_000000412029_00489_13068_3174.N1	30-AUG-2004 01:27:03	Bright	41.000	17	78Bet Gem	1.1610	4500.0	82	13068	No
30	GOM_NL__2PRFIN20040830_012834_000000672029_00489_13068_3175.N1	30-AUG-2004 01:28:34	Twilight	66.500	28	12Bet Tau	1.6500	15200.	133	13068	No
31	GOM_NL__2PRFIN20040830_013135_000000512029_00489_13068_3176.N1	30-AUG-2004 01:31:35	Twilight	50.500	44	24Gam Gem	1.9280	11000.	101	13068	No
32	GOM_NL__2PRFIN20040830_013339_000000502029_00489_13068_3177.N1	30-AUG-2004 01:33:39	Twilight	50.000	8	10Alp CMi	0.40000	6500.0	100	13068	No
33	GOM_NL__2PRFIN20040830_013602_000000742029_00489_13068_3178.N1	30-AUG-2004 01:36:02	Dark	74.000	14	58Alp Ori	0.87000	3000.0	148	13068	No
34	GOM_NL__2PRFIN20040830_013809_000000712029_00489_13068_3179.N1	30-AUG-2004 01:38:09	Dark	71.000	27	24Gam Ori	1.6360	26000.	142	13068	No
35	GOM_NL__2PRFIN20040830_014112_000000582029_00489_13068_3180.N1	30-AUG-2004 01:41:12	Dark	58.000	1	9Alp CMa	-1.4400	11000.	116	13068	No
36	GOM_NL__2PRFIN20040830_014356_000000792029_00489_13068_3181.N1	30-AUG-2004 01:43:56	Dark	79.000	7	19Bet Ori	0.10000	14000.	158	13068	No
37	GOM_NL__2PRFIN20040830_014606_000000582029_00489_13068_3182.N1	30-AUG-2004 01:46:06	Dark	57.500	139	9Bet Lep	2.8330	5600.0	115	13068	No
38	GOM_NL__2PRFIN20040830_015046_000000542029_00489_13068_3183.N1	30-AUG-2004 01:50:46	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	13068	No
39	GOM_NL__2PRFIN20040830_015551_000001442029_00490_13069_2982.N1	30-AUG-2004 01:55:51	Dark	143.50	165	34Gam Eri	2.9500	3200.0	287	13069	No
40	GOM_NL__2PRFIN20040830_020102_000000432029_00490_13069_2983.N1	30-AUG-2004 02:01:02	Dark	42.500	143	Alp Hyi	2.8570	7200.0	85	13069	No
41	GOM_NL__2PRFIN20040830_020216_000000592029_00490_13069_2984.N1	30-AUG-2004 02:02:16	Dark	59.000	9	Alp Eri	0.45300	24000.	118	13069	No
42	GOM_NL__2PRFIN20040830_020647_000000442029_00490_13069_2985.N1	30-AUG-2004 02:06:47	Straylight	44.000	148	Alp Tuc	2.8780	4100.0	88	13069	No

3.1 Plot quality information per product (time dependant)

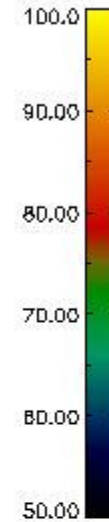
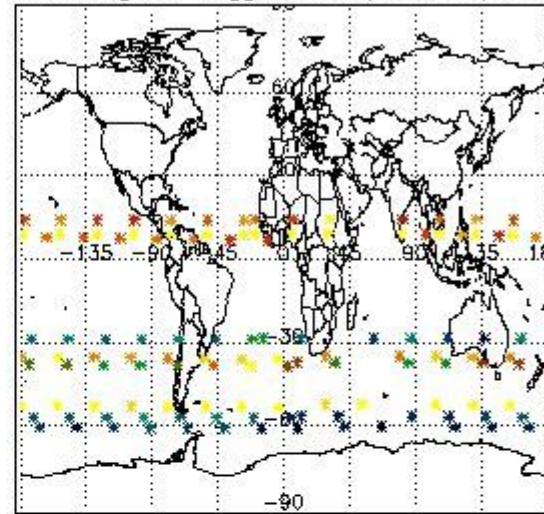


3.2 Plot quality information per product (world map)

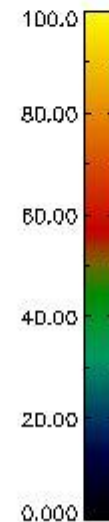
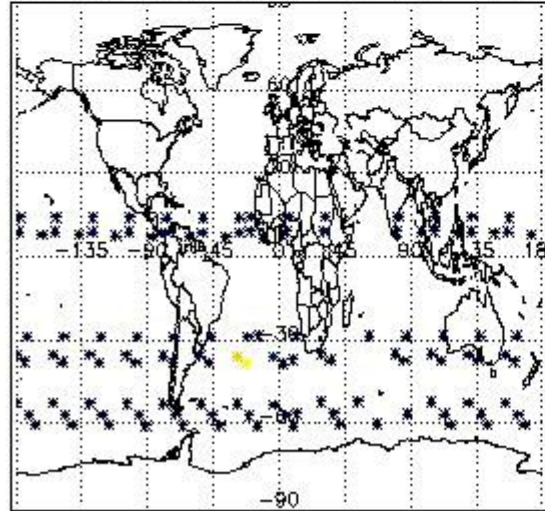
Percentage of flagged data per O3 profile



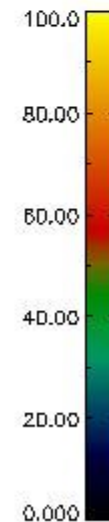
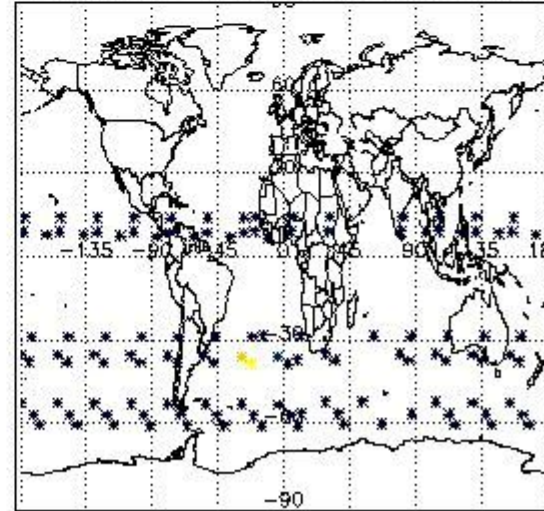
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

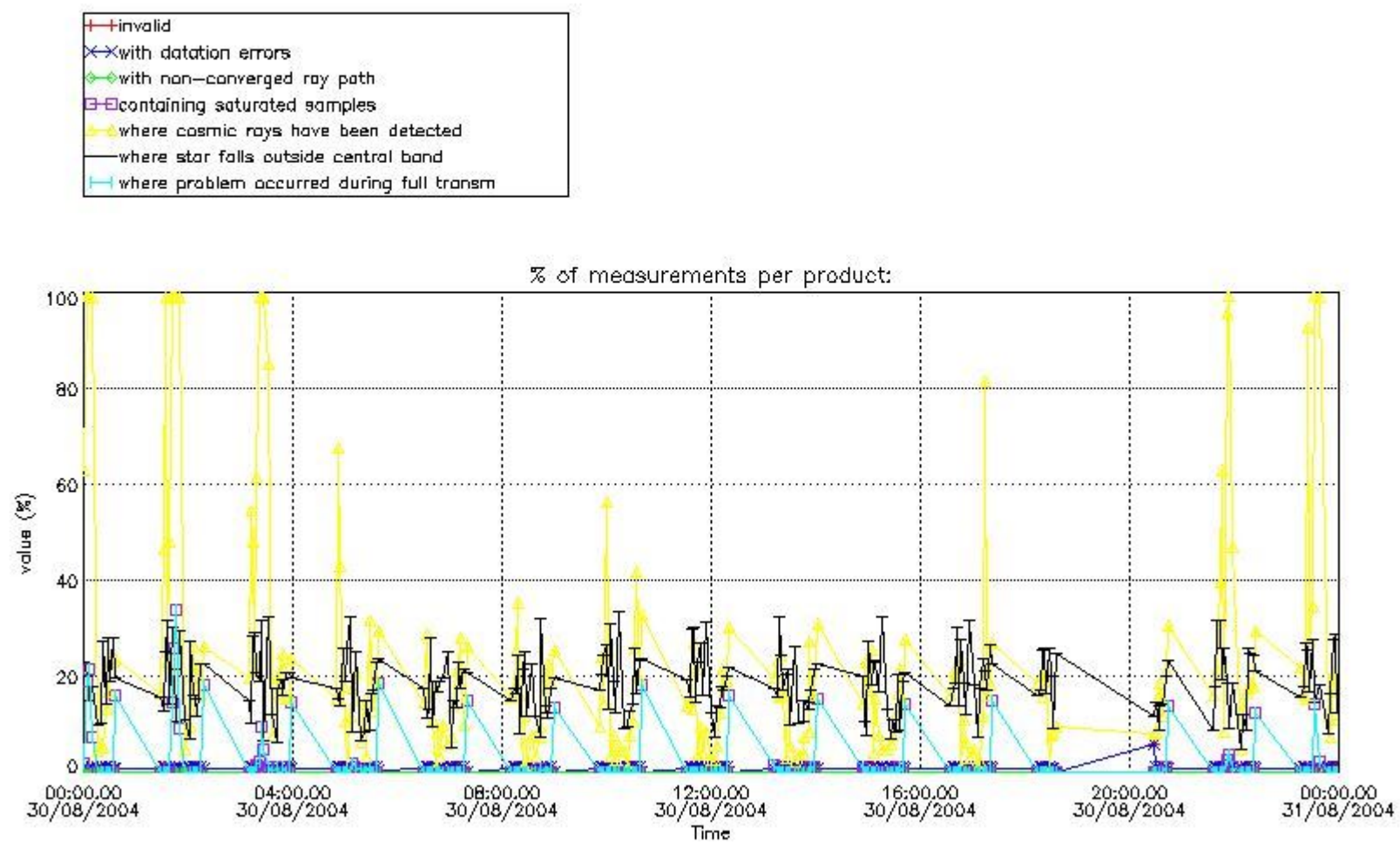


4. Level 1 quality information per product

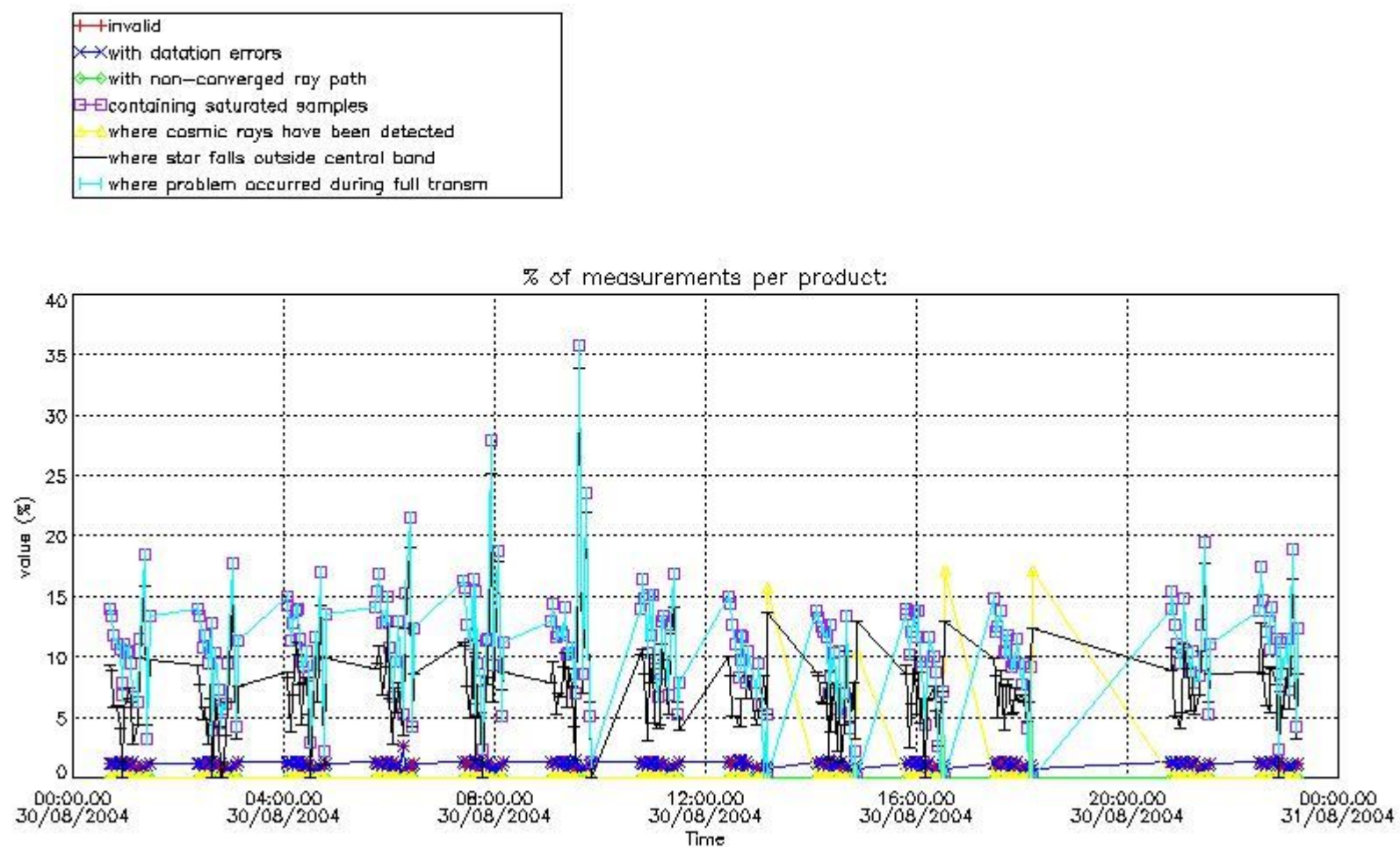
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



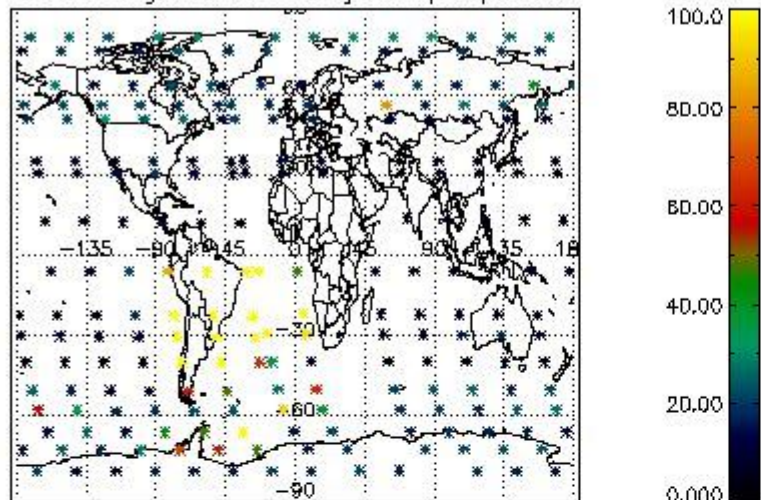
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



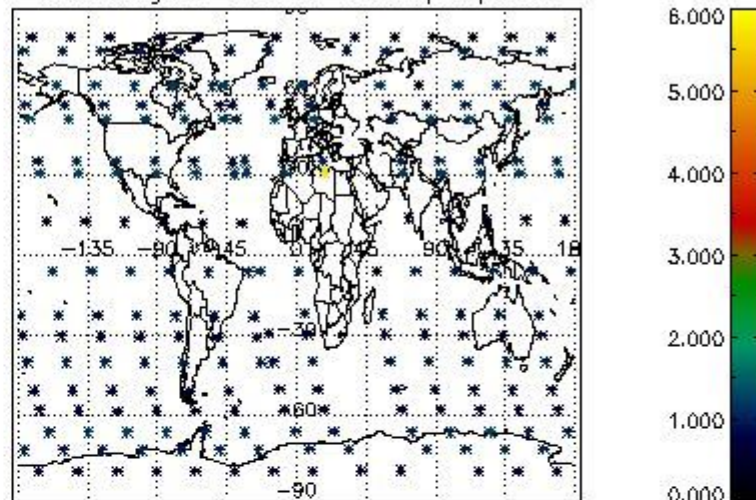
4.2 Plot quality information per product coming from level 1b processing (world map)

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

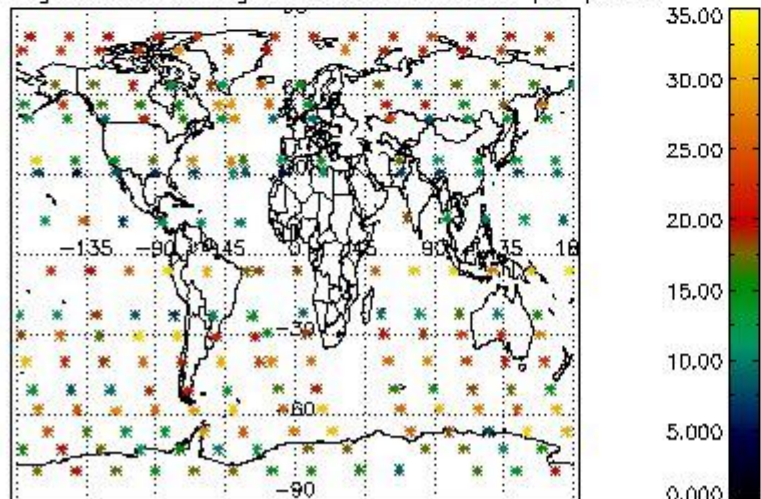
Percentage of cosmic ray hits per profile



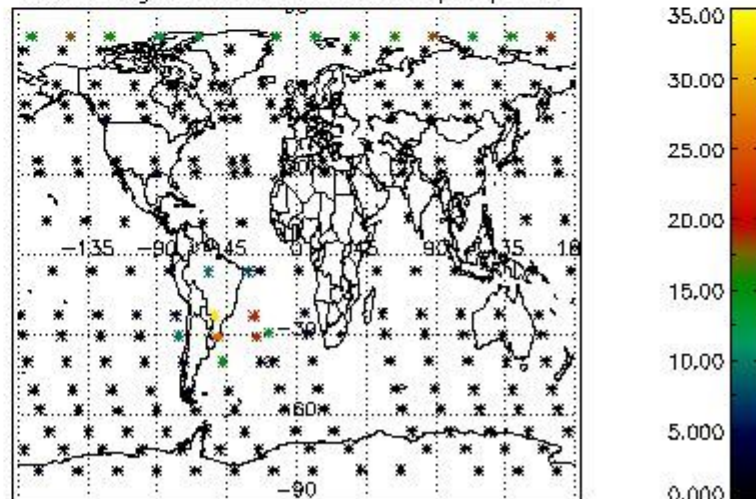
Percentage of datation errors per profile



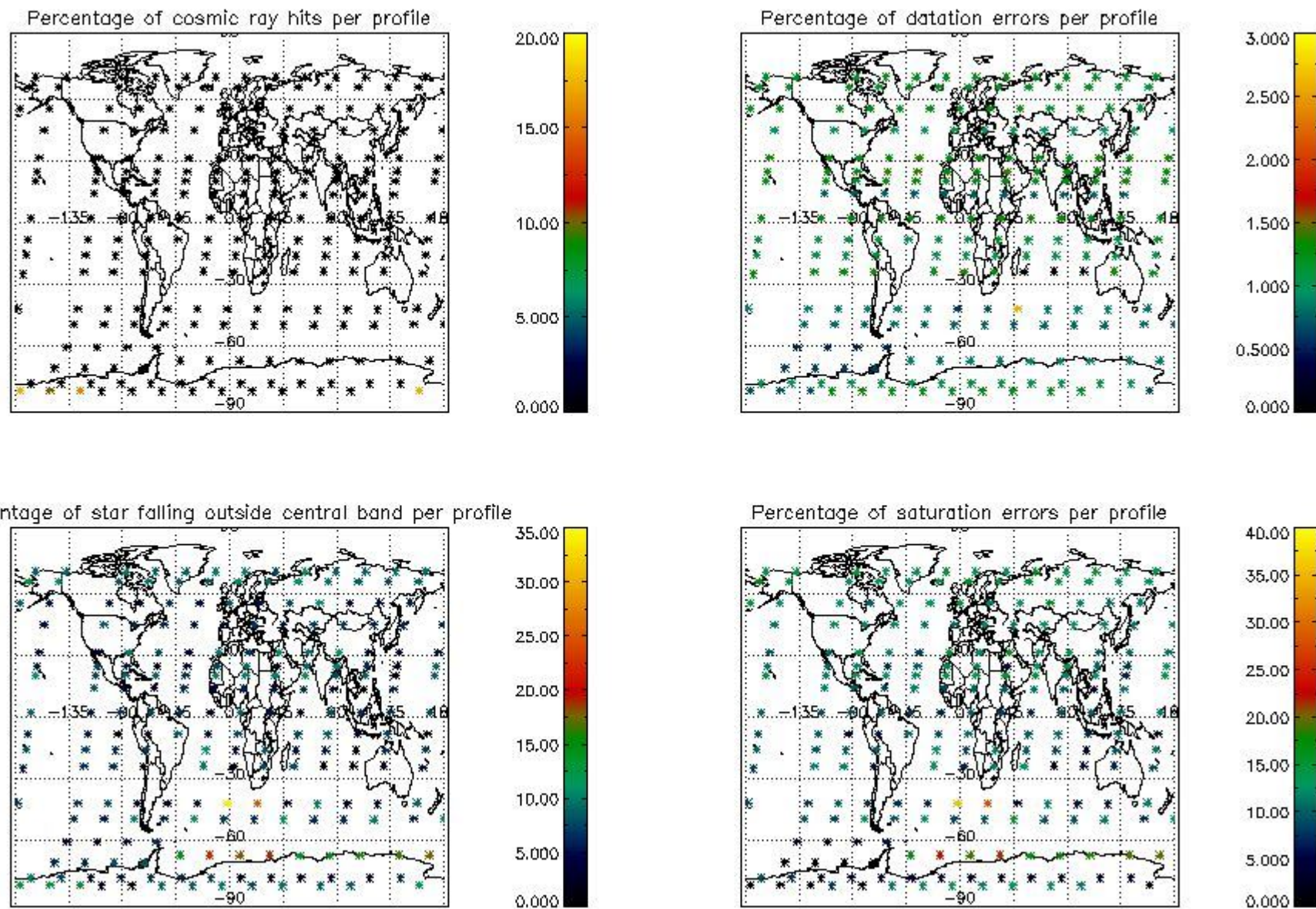
Percentage of star falling outside central band per profile



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

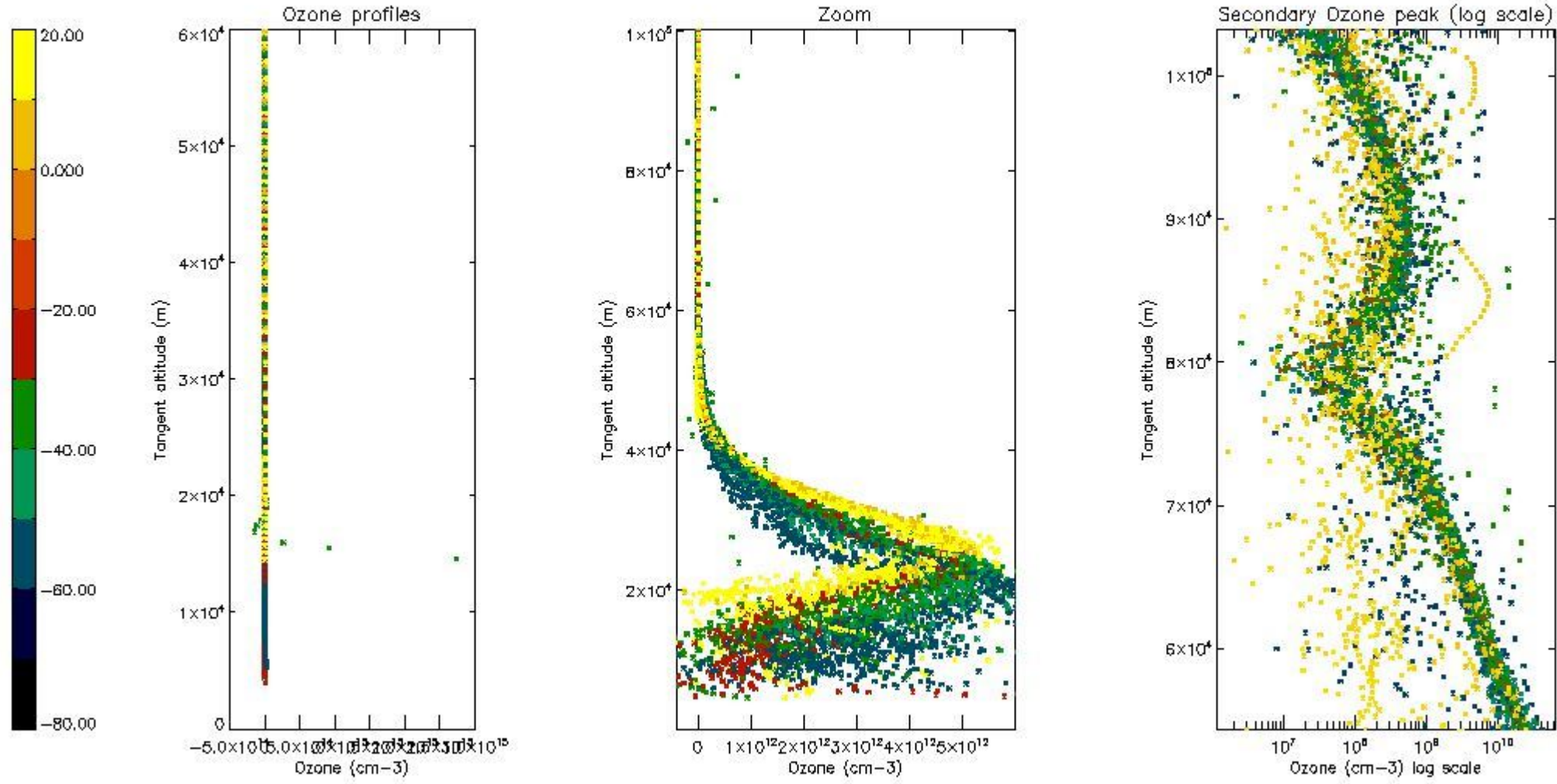
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	34
STD < 20	18

STD < 10	16
STD < 5	12

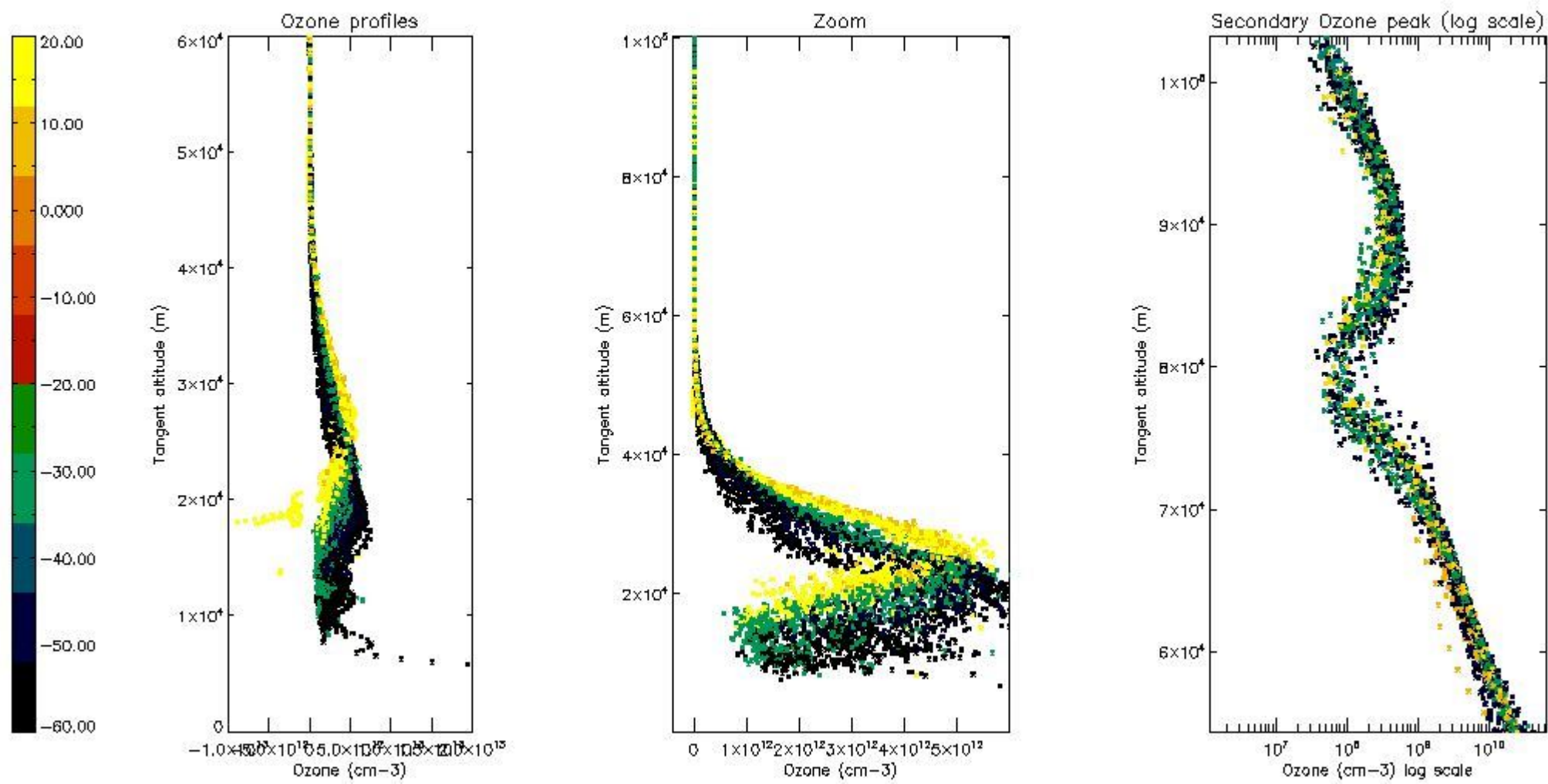
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



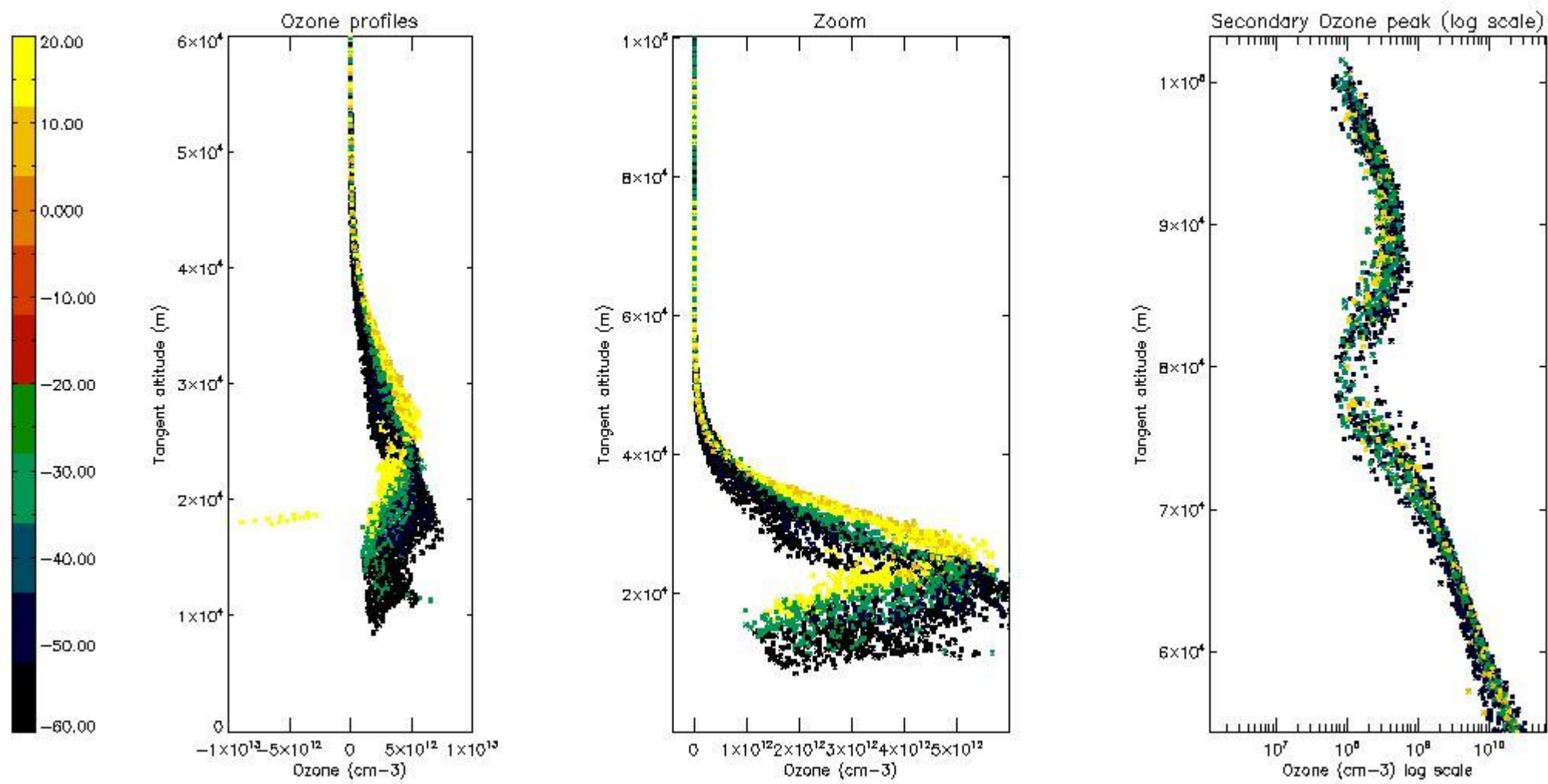
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



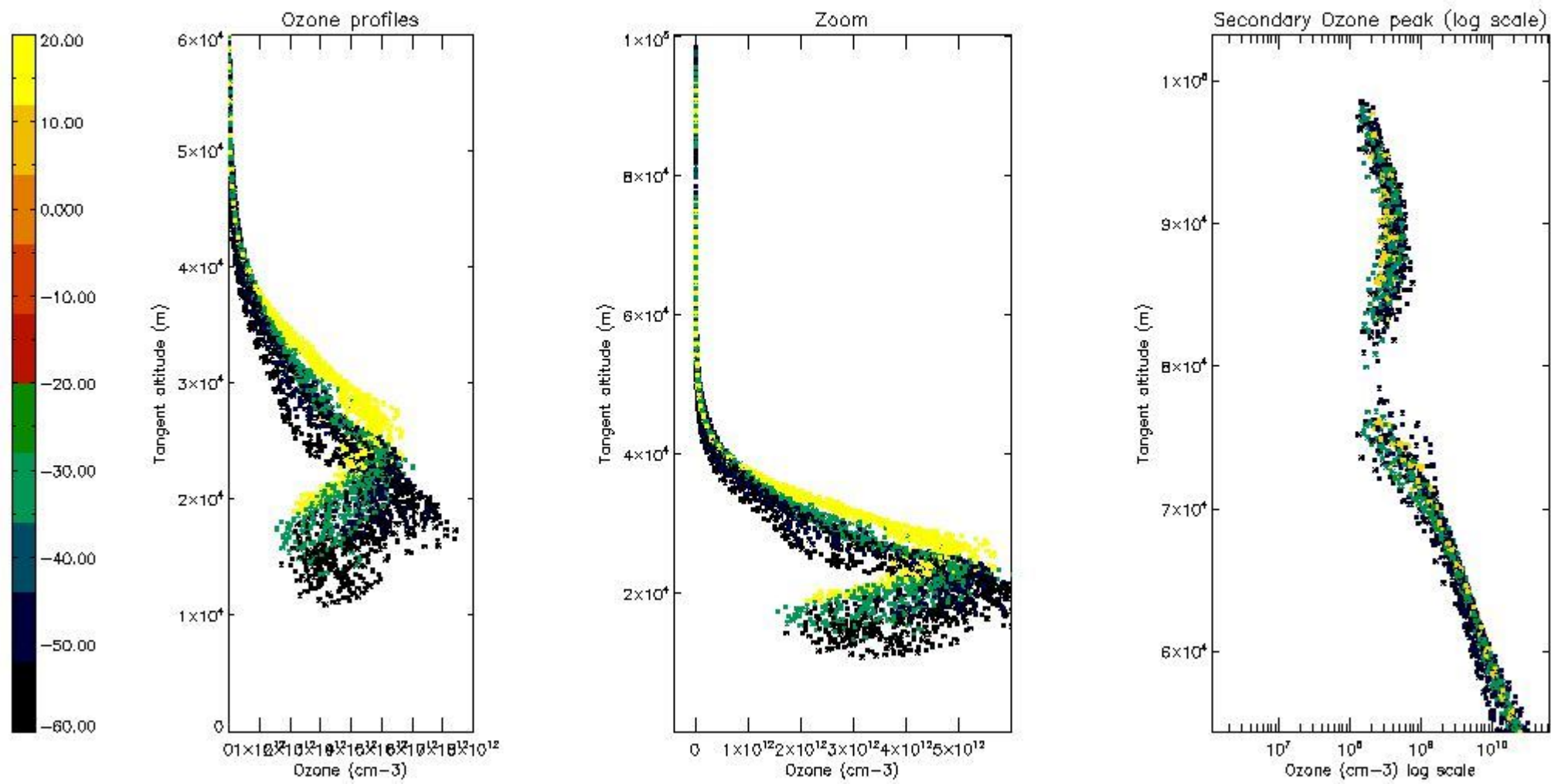
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



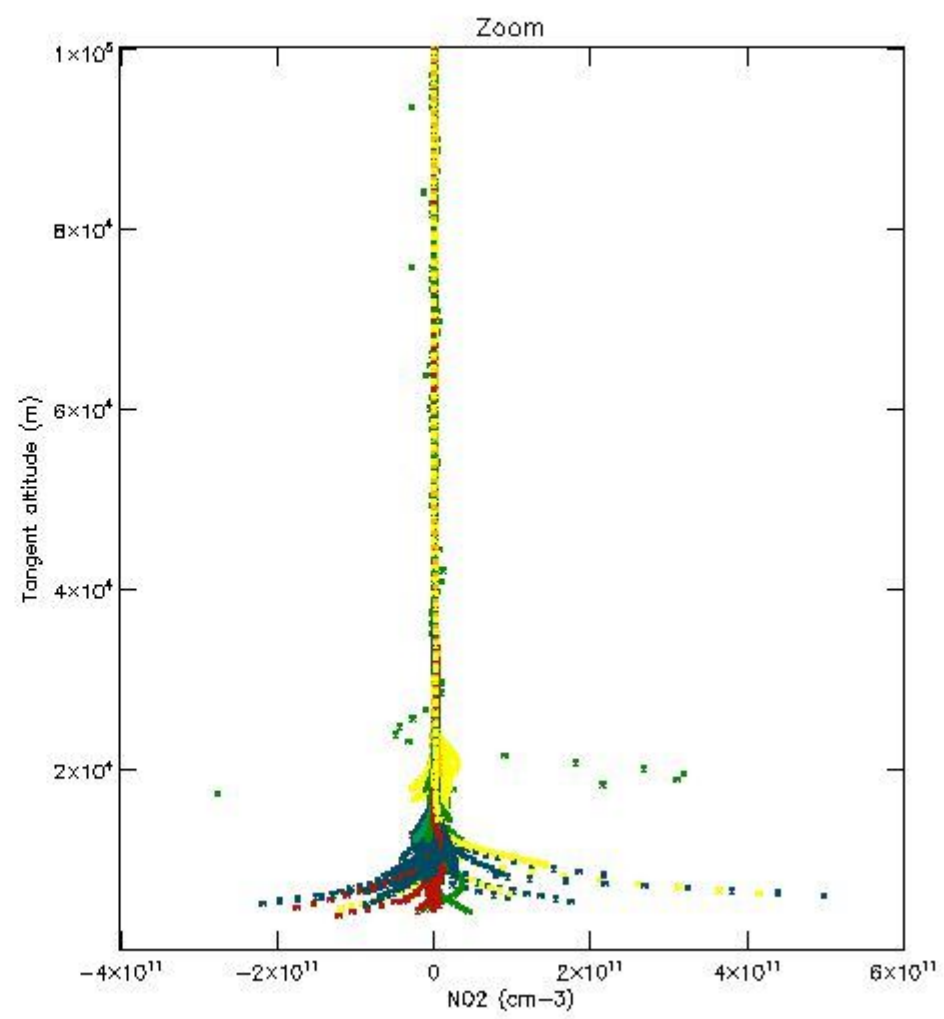
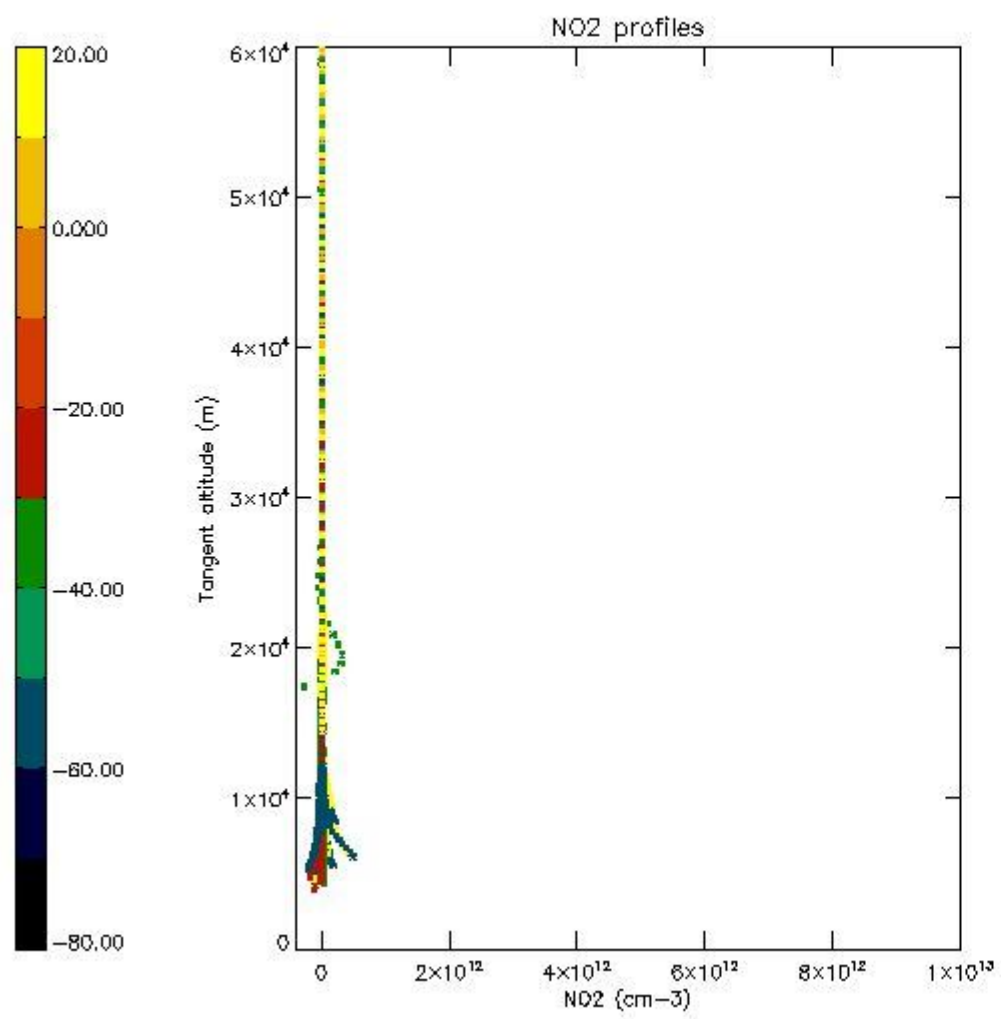
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



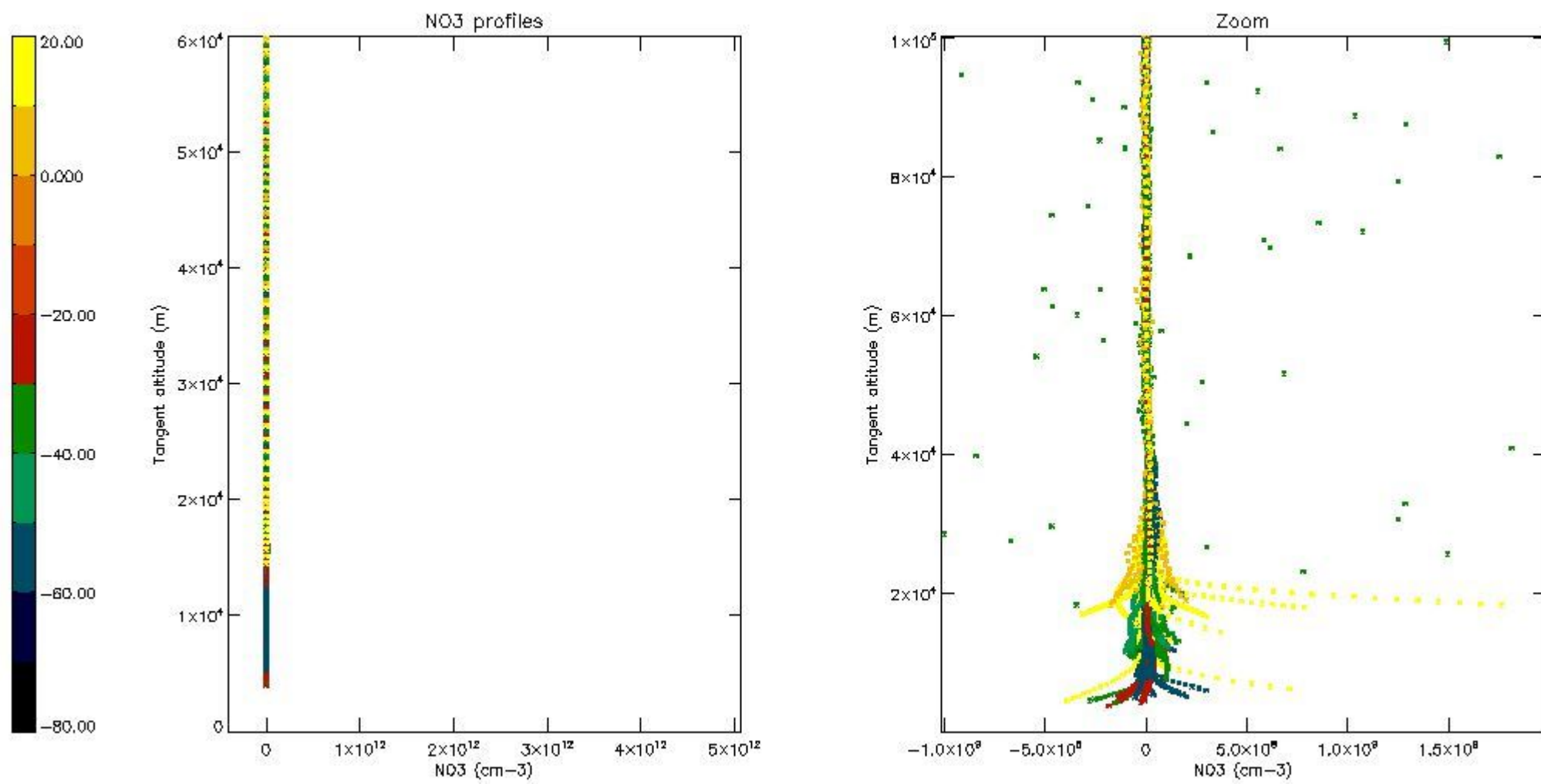
5.6 Plot NO2 profiles for all STD (dark without errors)

The colorbar represents the latitude.



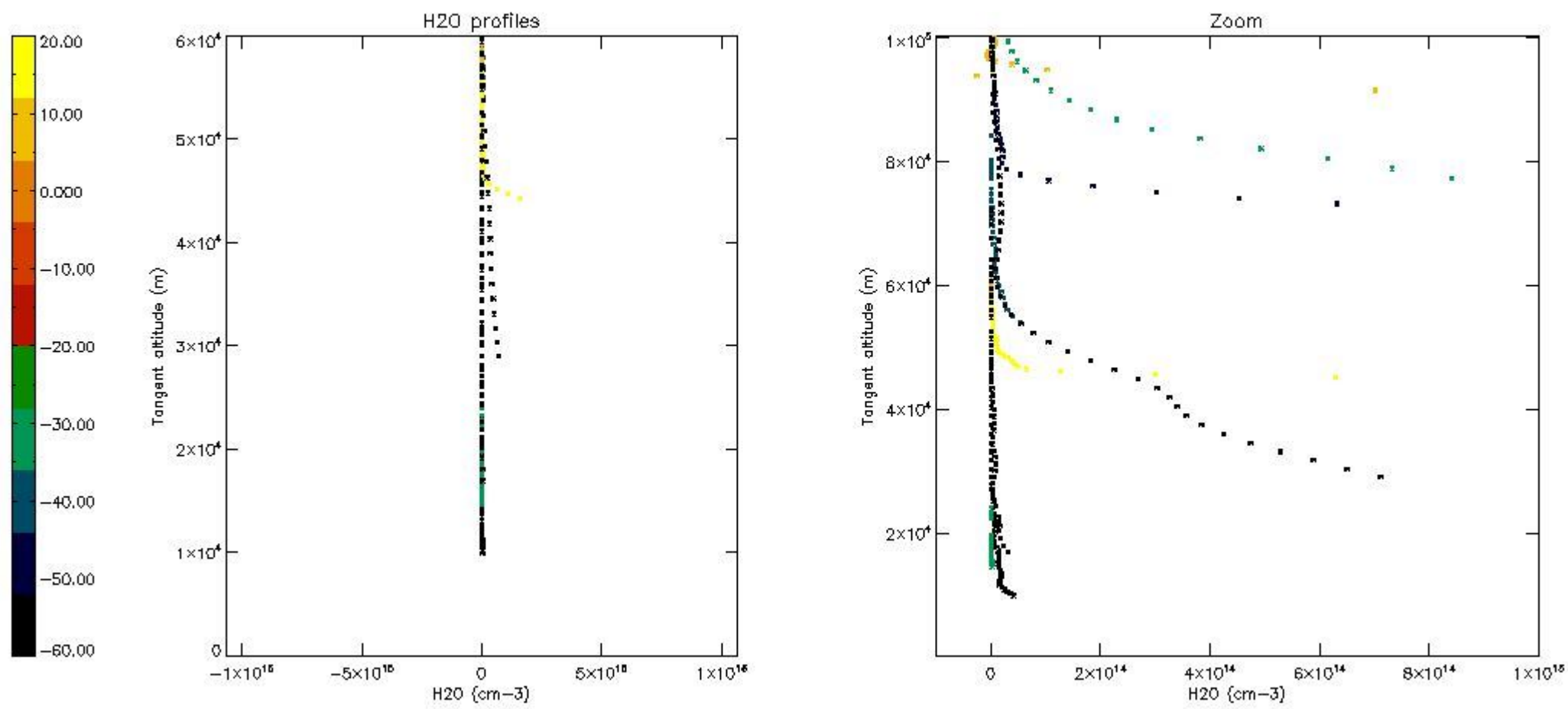
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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	30-AUG-2004 00:00:36
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	30-AUG-2004 00:00:36
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	30-AUG-2004 00:00:36

GOMOS Level 2 Daily Report

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[3. Level 2 Quality information per product](#)

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[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](#)

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

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

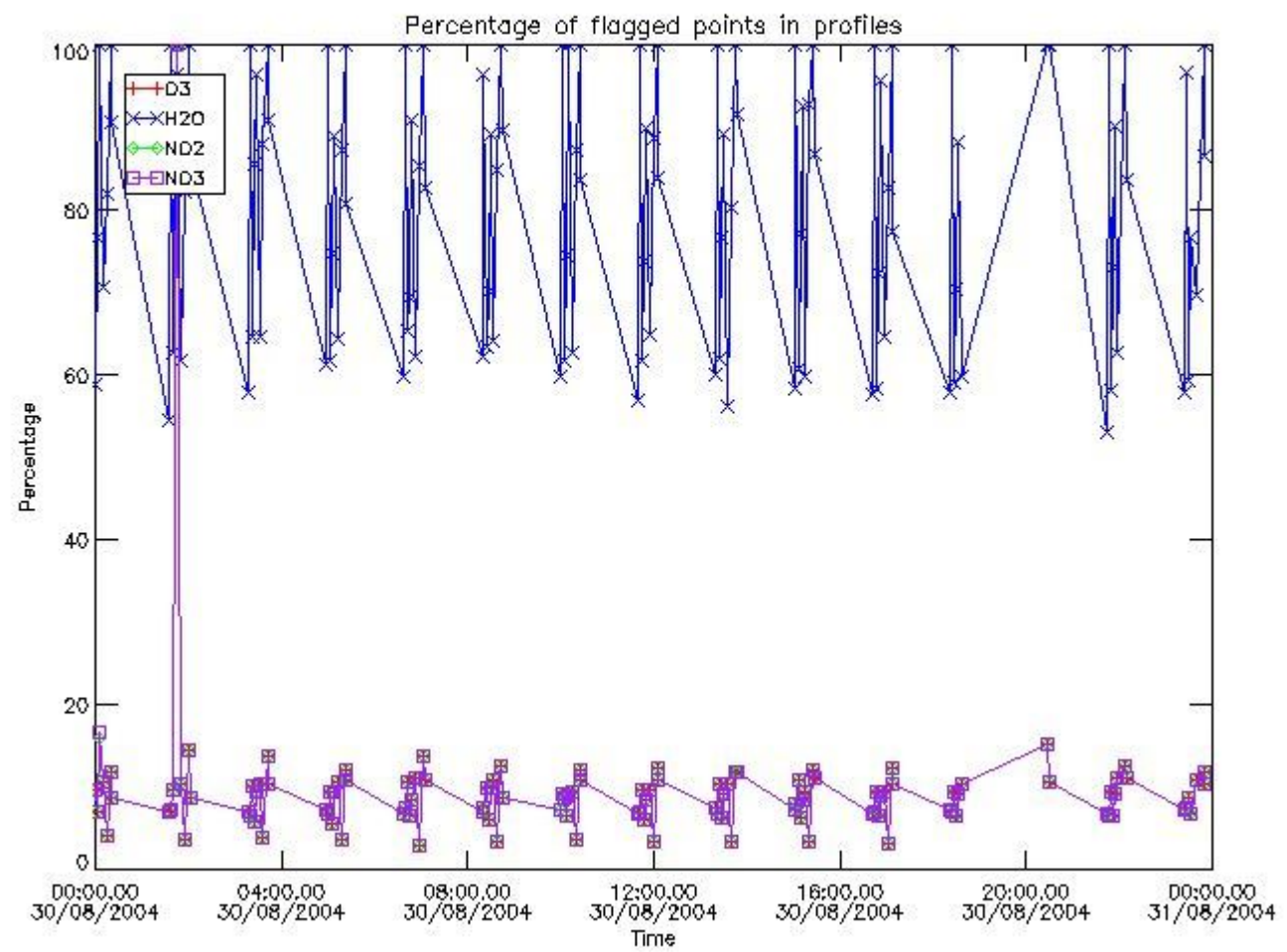
[5.6 Plot NO2 profiles for all STD \(dark without errors\)](#)

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

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

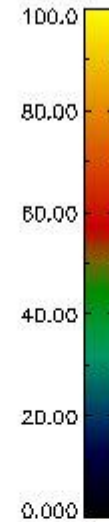
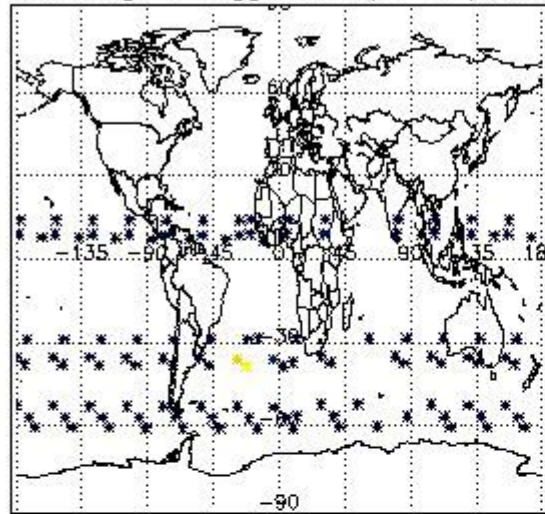
[6. Auxiliary Data Files used for the production reported in section 2](#)

3.1 Plot quality information per product (time dependant)

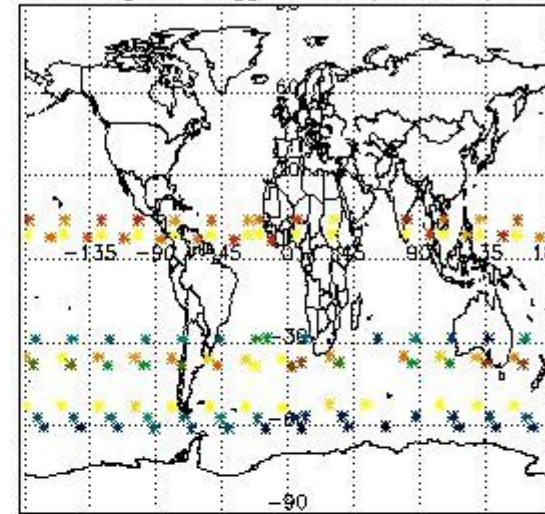


3.2 Plot quality information per product (world map)

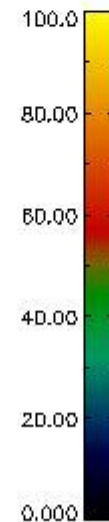
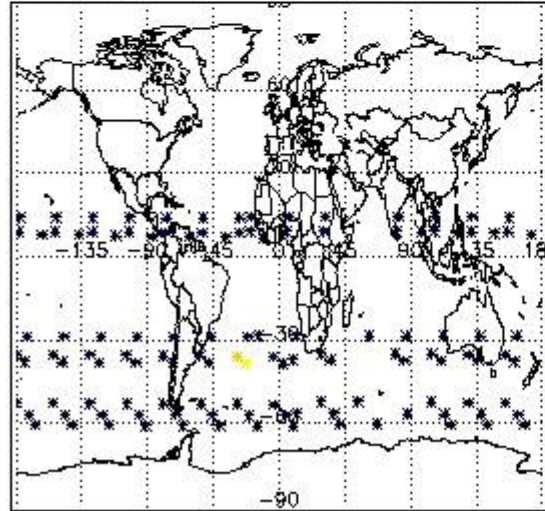
Percentage of flagged data per O3 profile



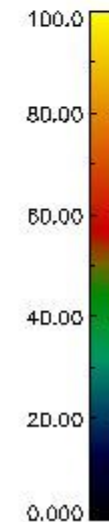
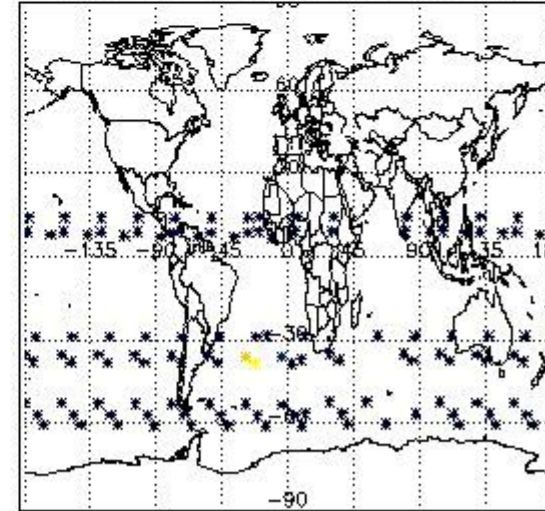
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

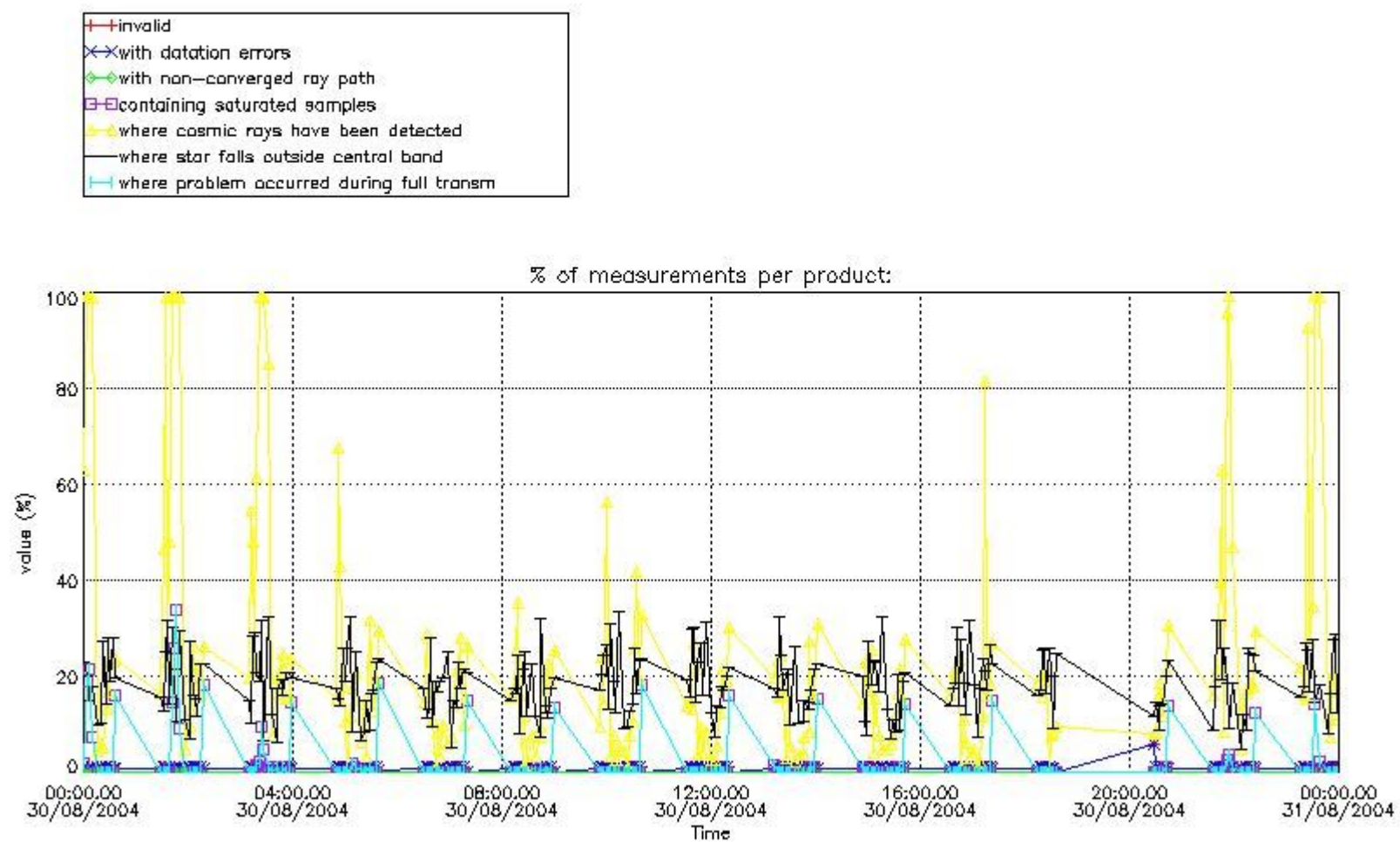


4. Level 1 quality information per product

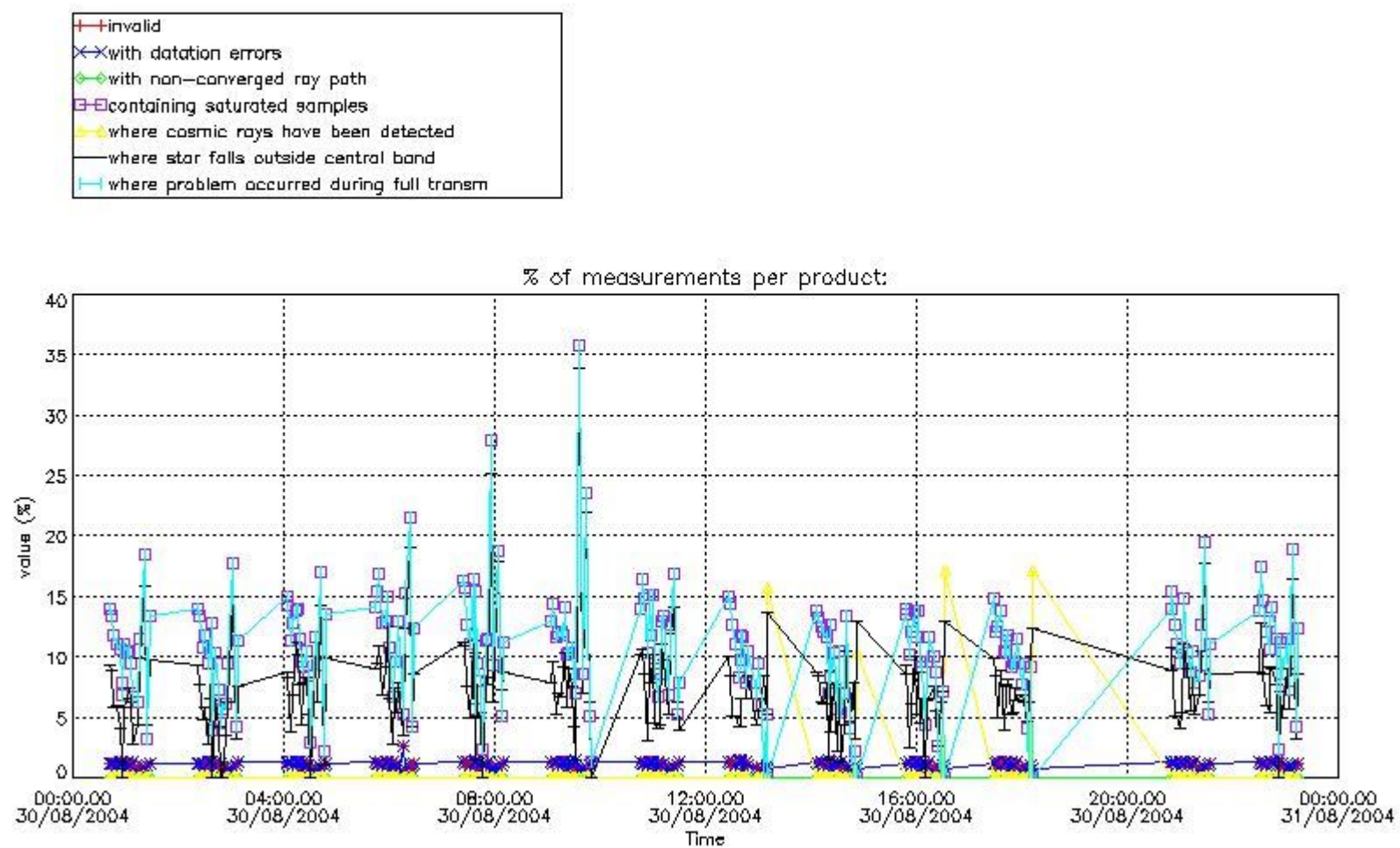
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



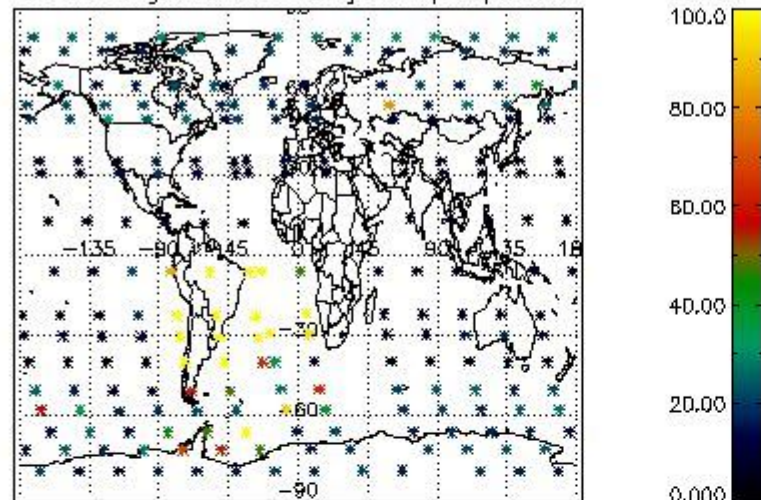
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



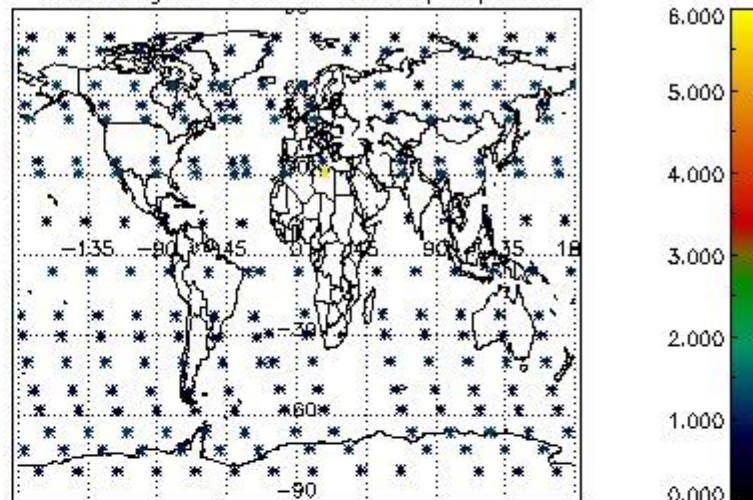
4.2 Plot quality information per product coming from level 1b processing (world map)

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

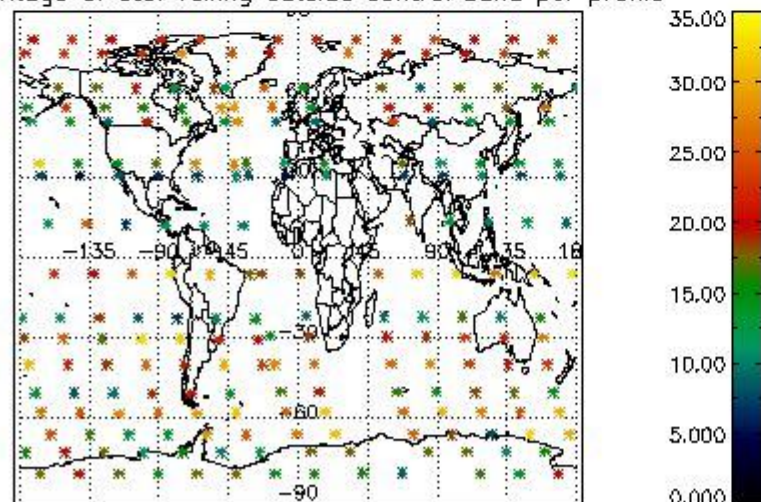
Percentage of cosmic ray hits per profile



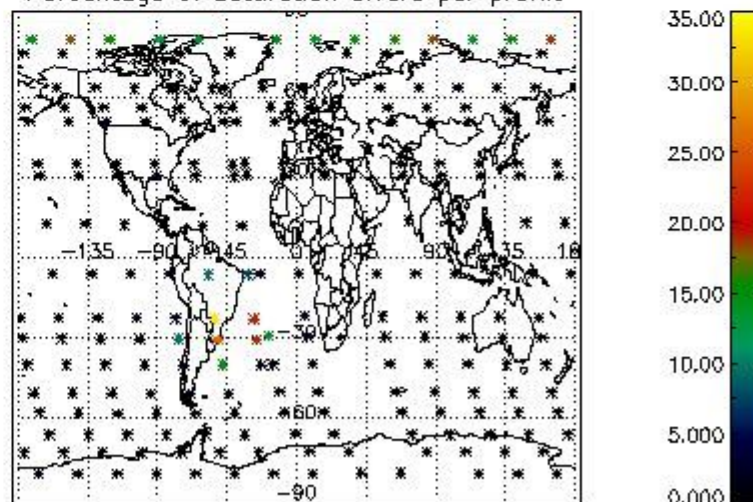
Percentage of datation errors per profile



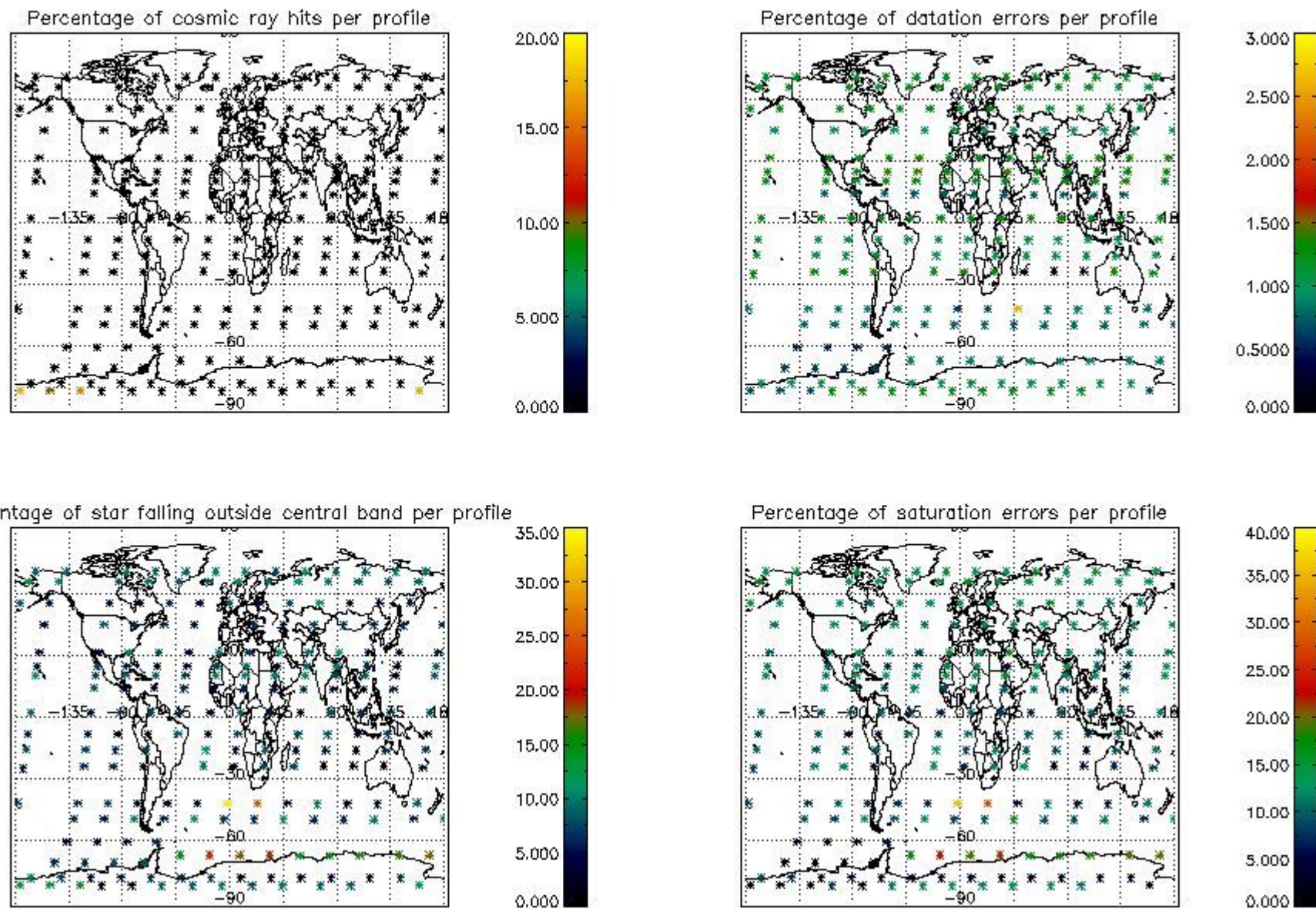
Percentage of star falling outside central band per profile



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

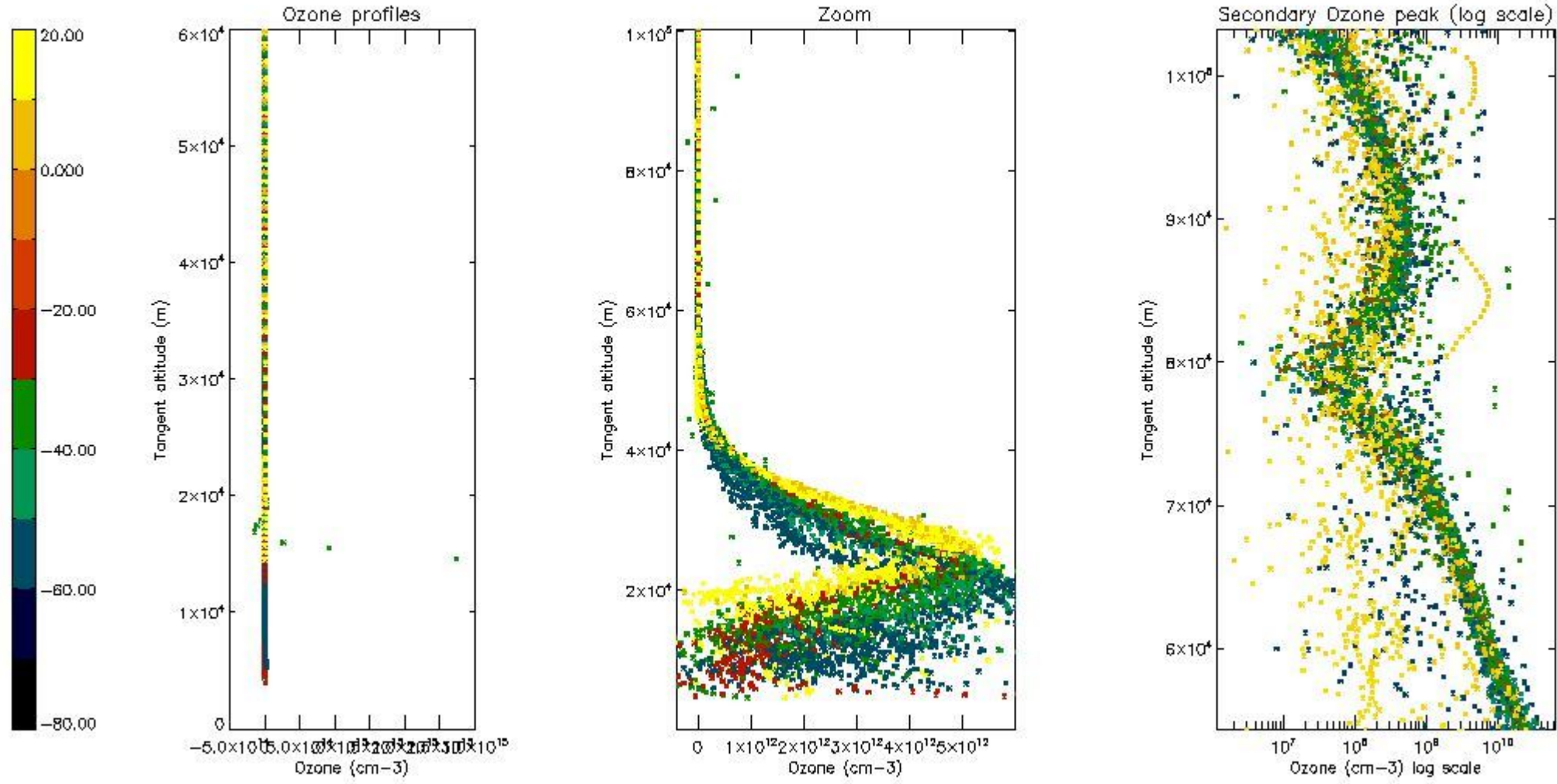
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	34
STD < 20	18

STD < 10	16
STD < 5	12

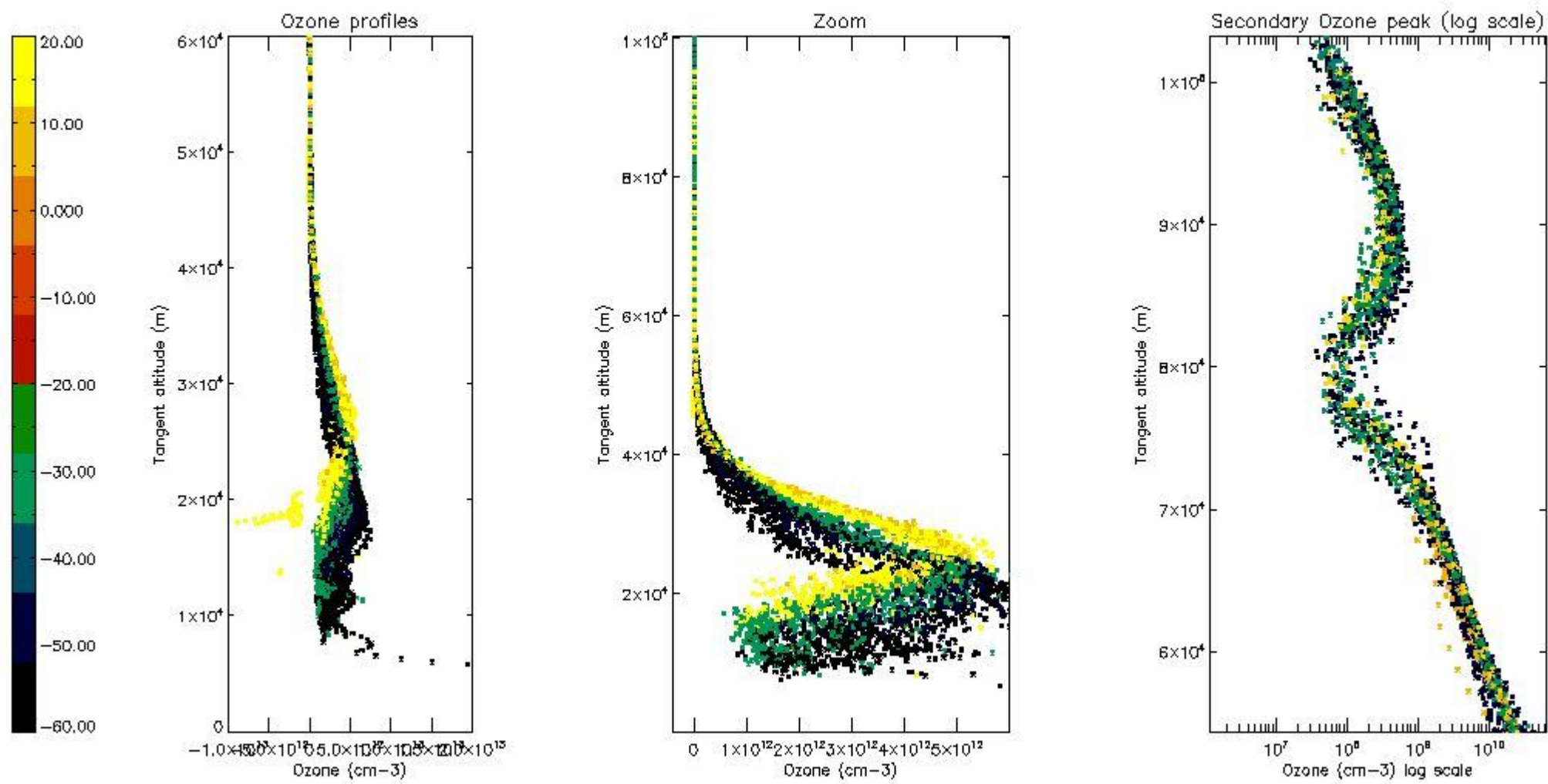
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



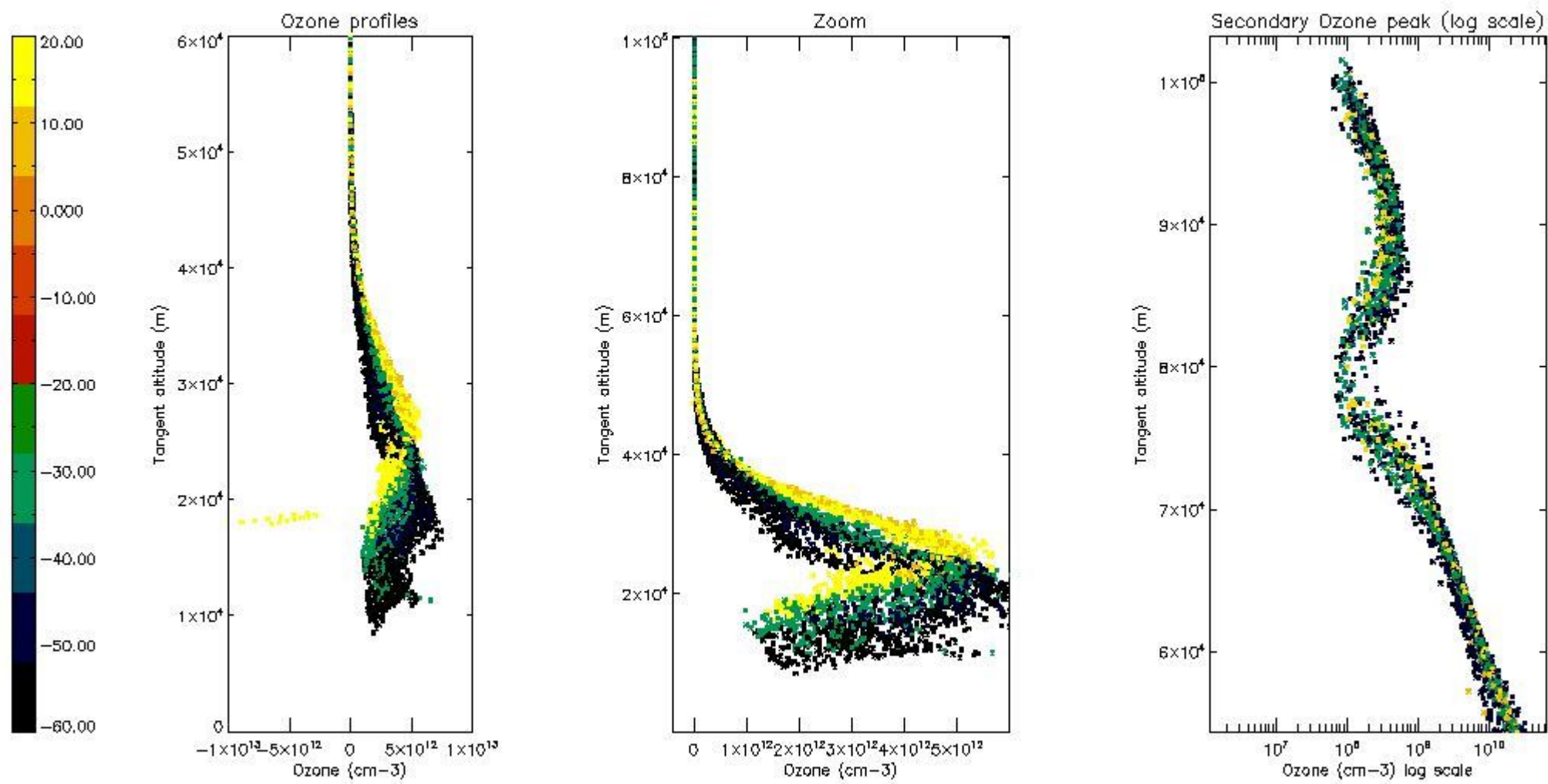
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



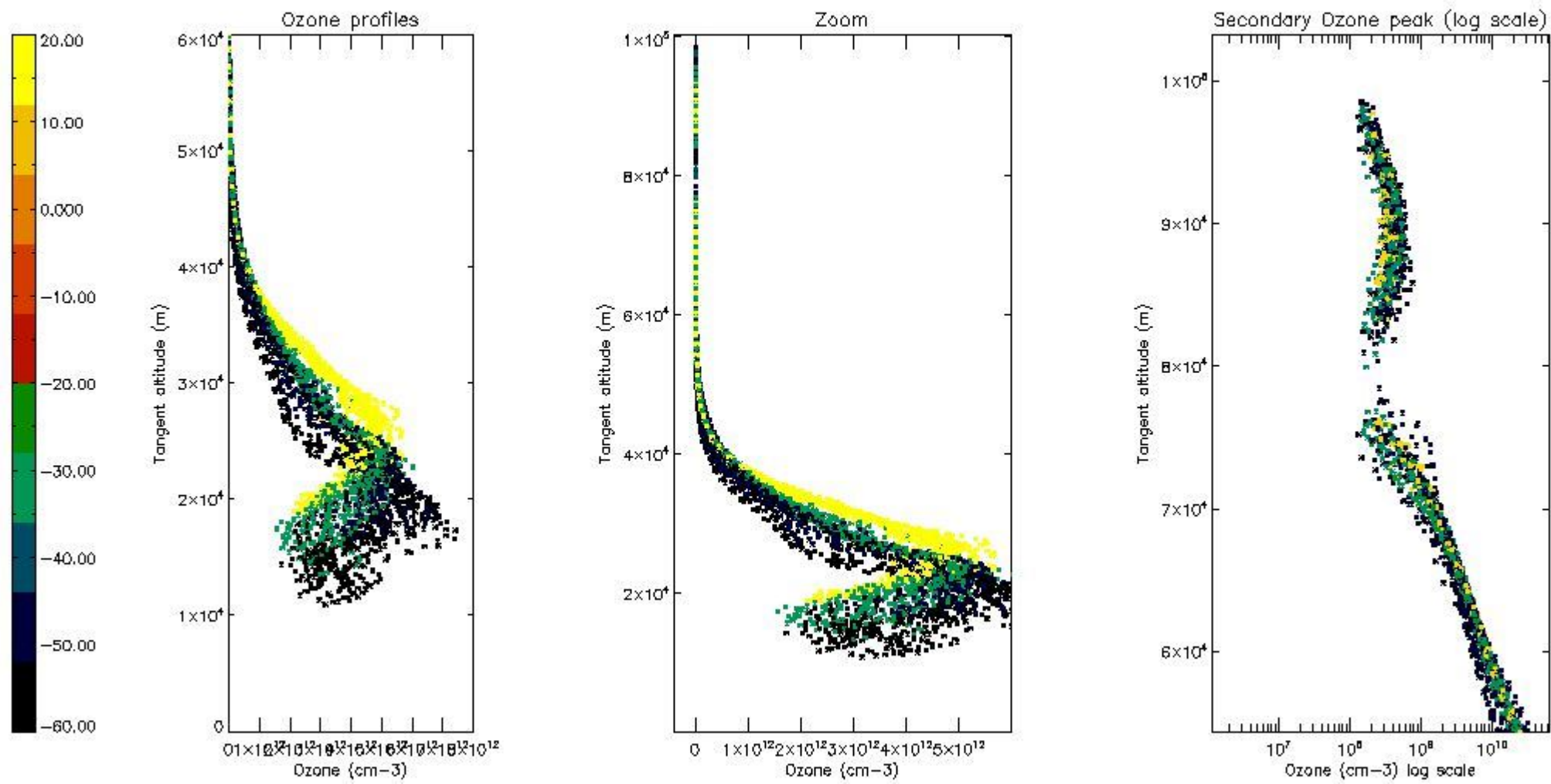
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



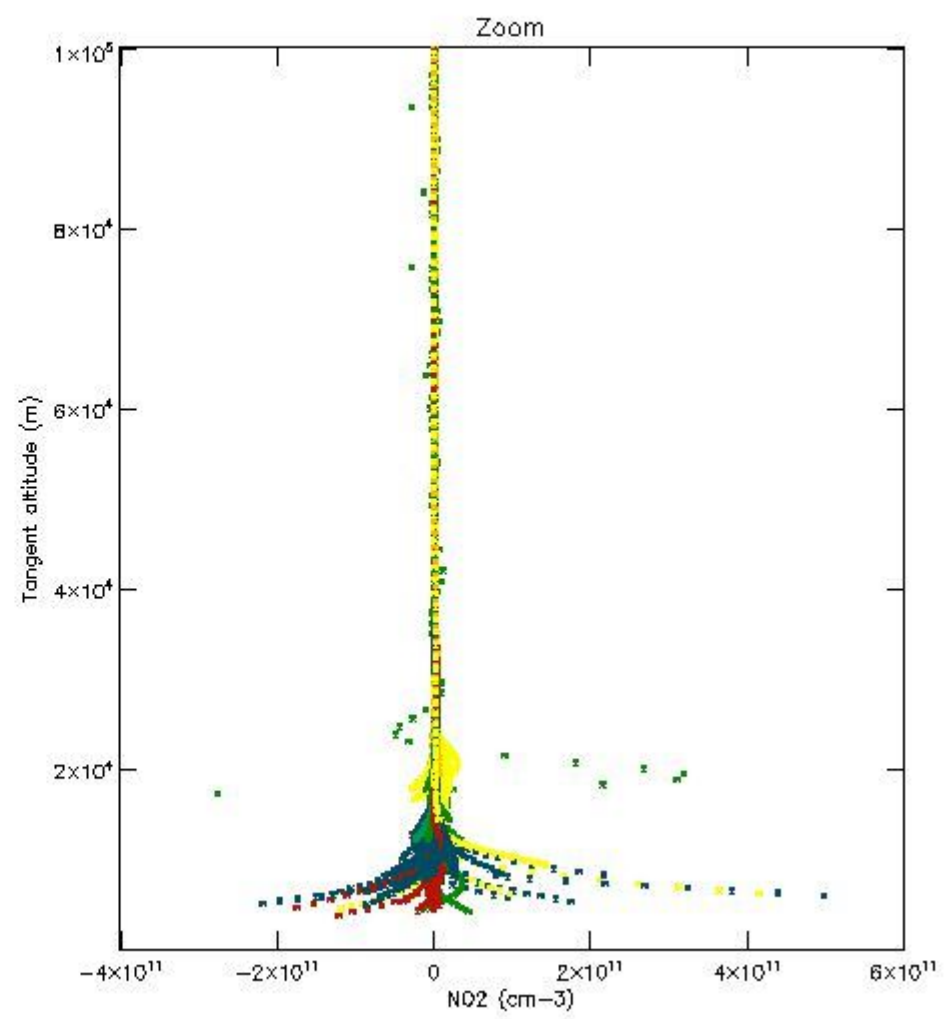
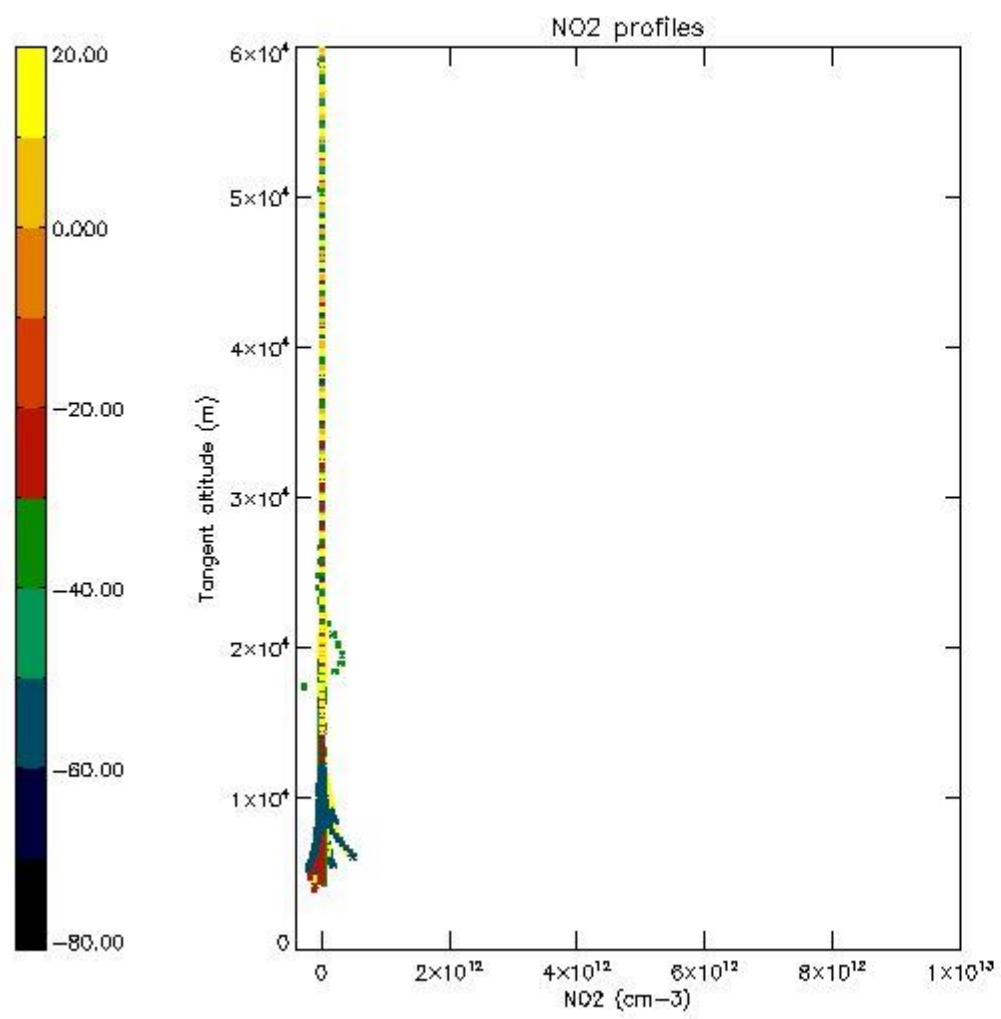
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



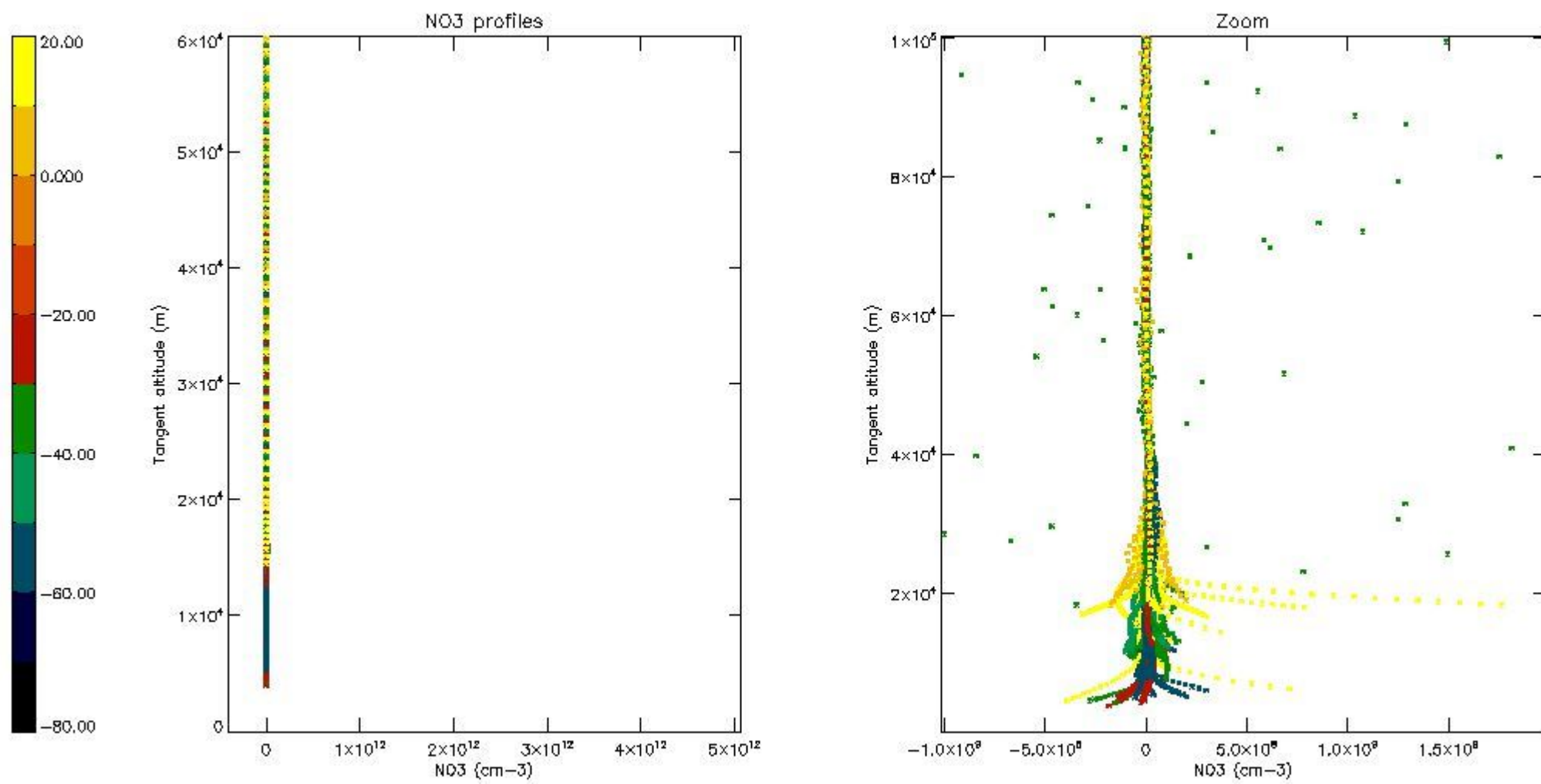
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



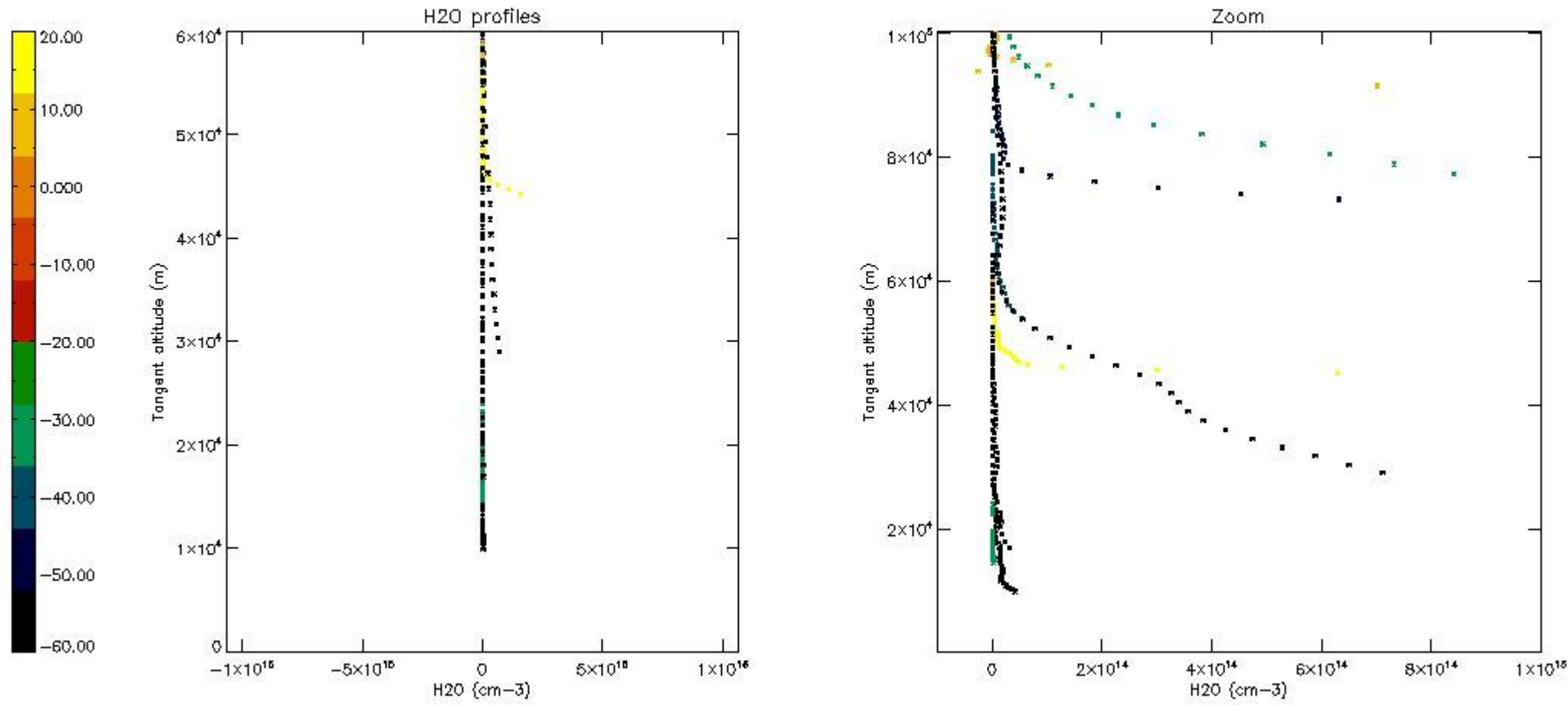
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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)

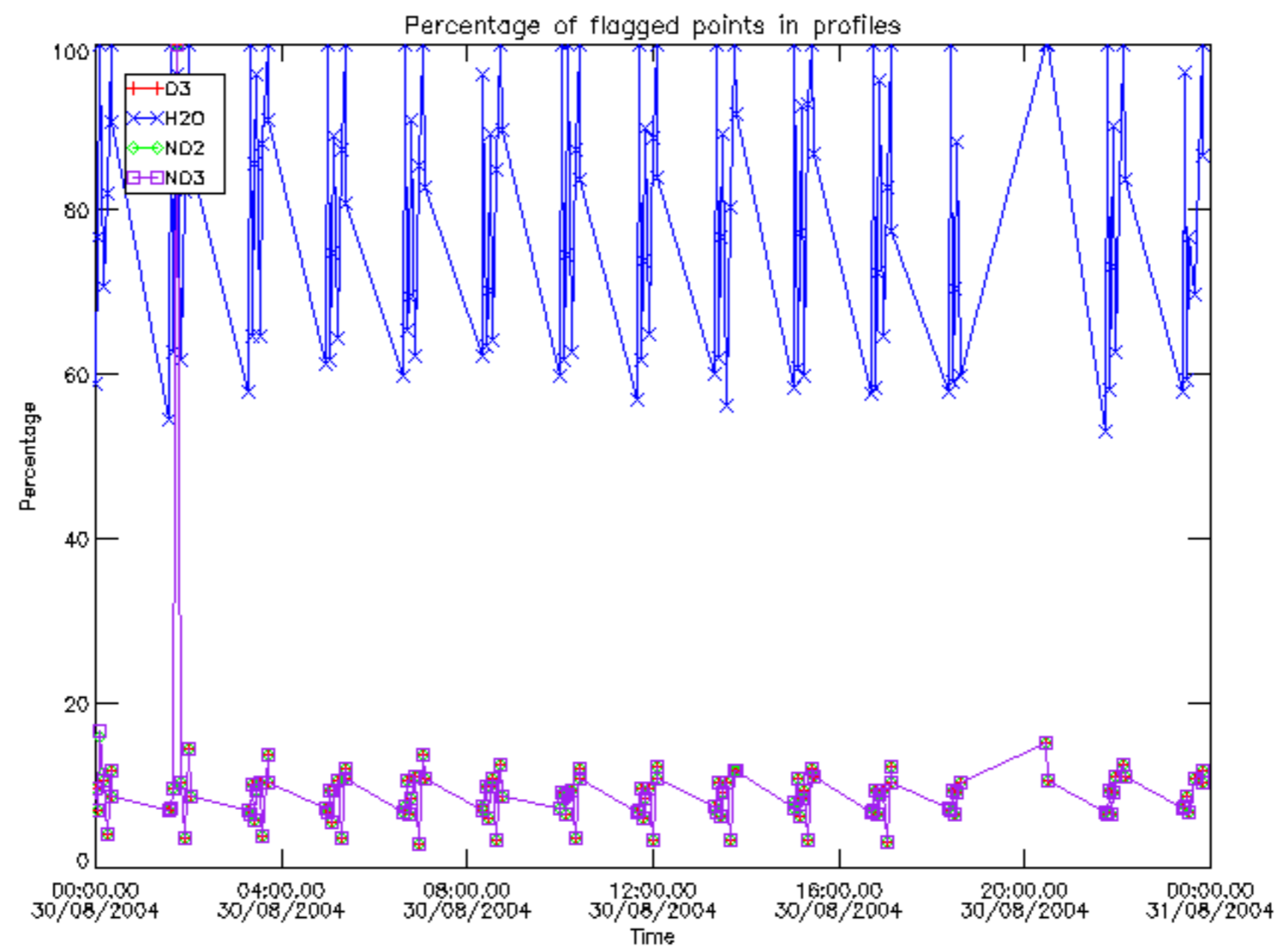
The colorbar represents the latitude.



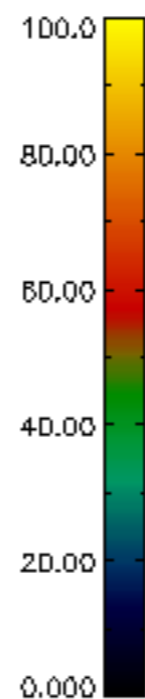
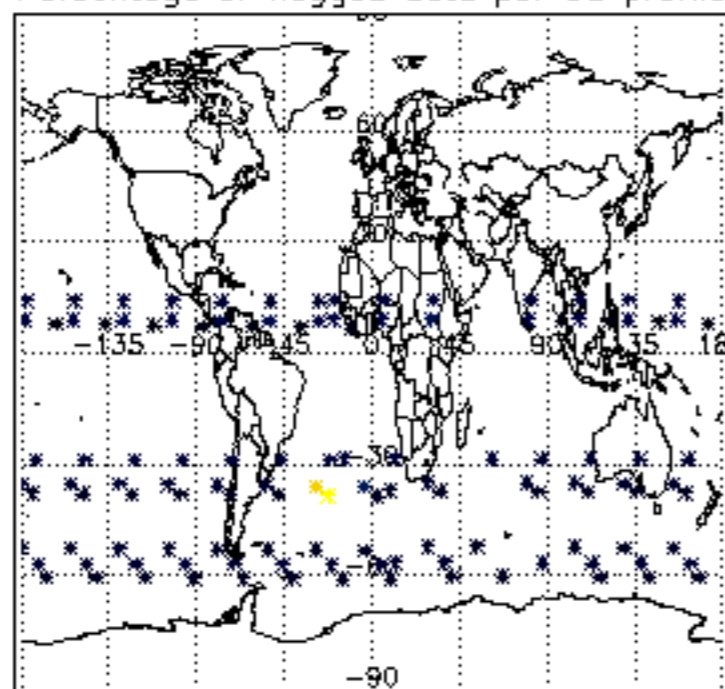
6. Auxiliary Data Files used for the production reported in section 2

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.

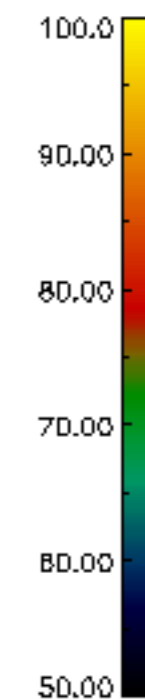
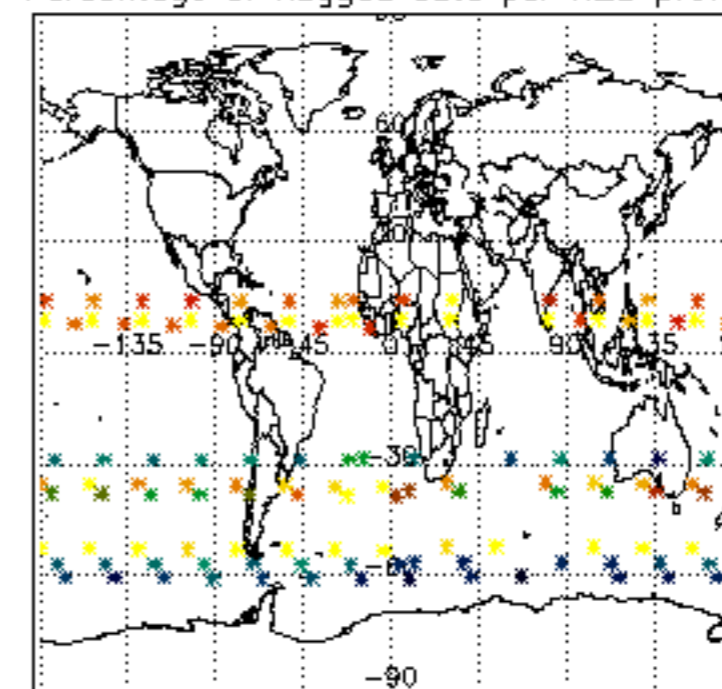
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	30-AUG-2004 00:00:36
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	30-AUG-2004 00:00:36
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	30-AUG-2004 00:00:36



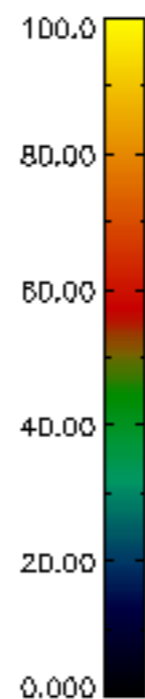
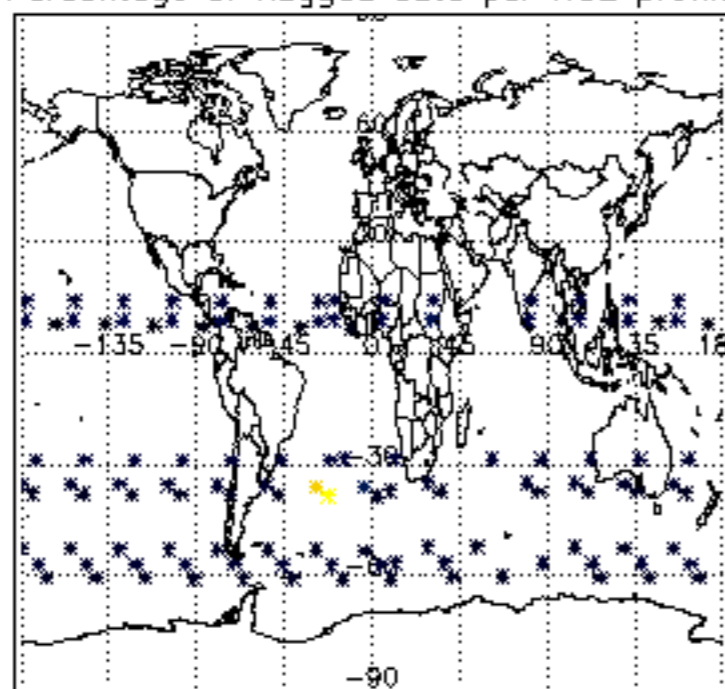
Percentage of flagged data per D3 profile



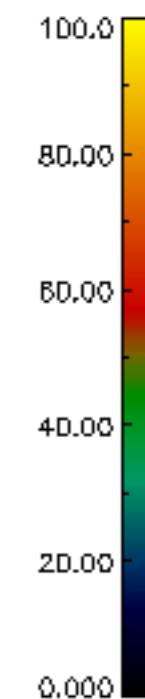
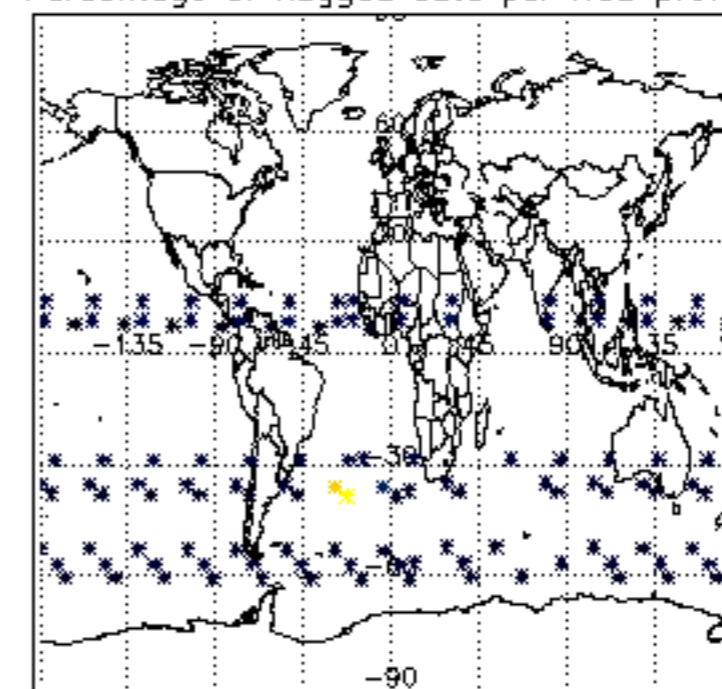
Percentage of flagged data per H2O profile

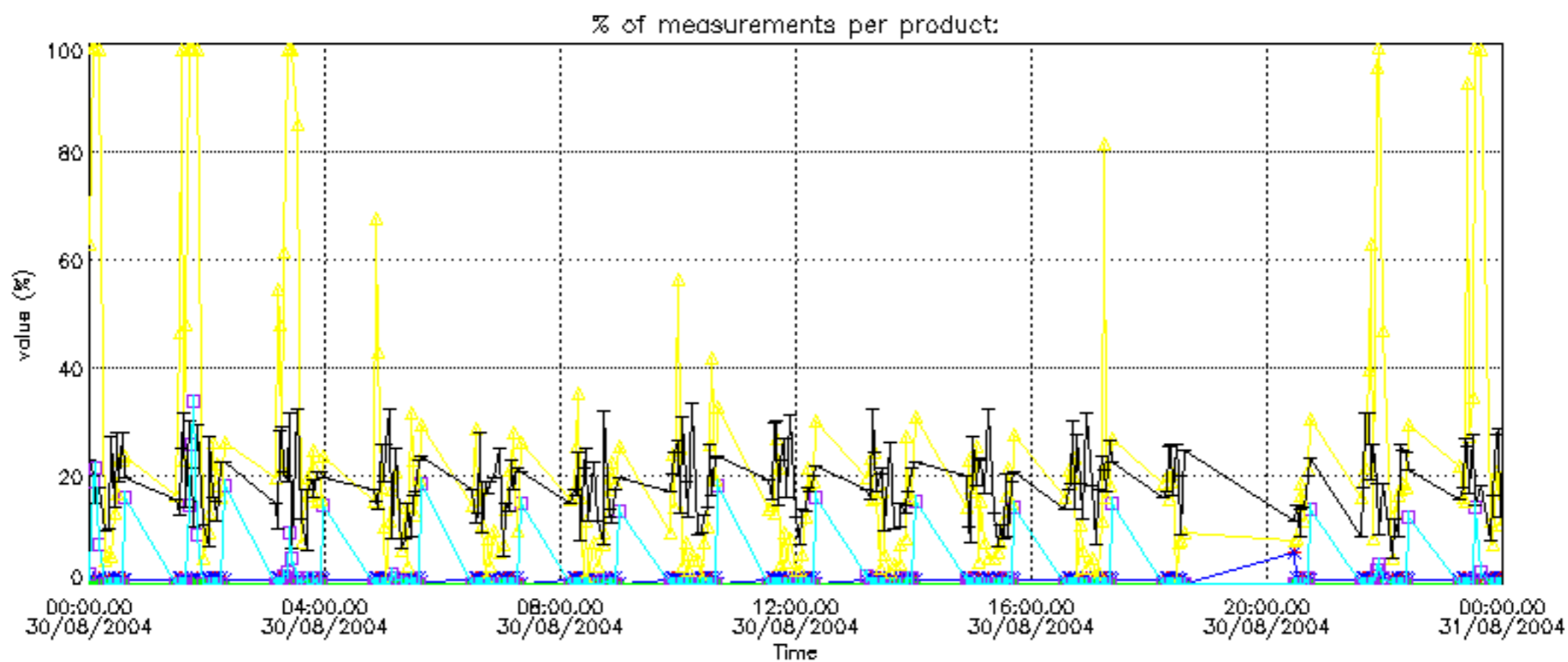


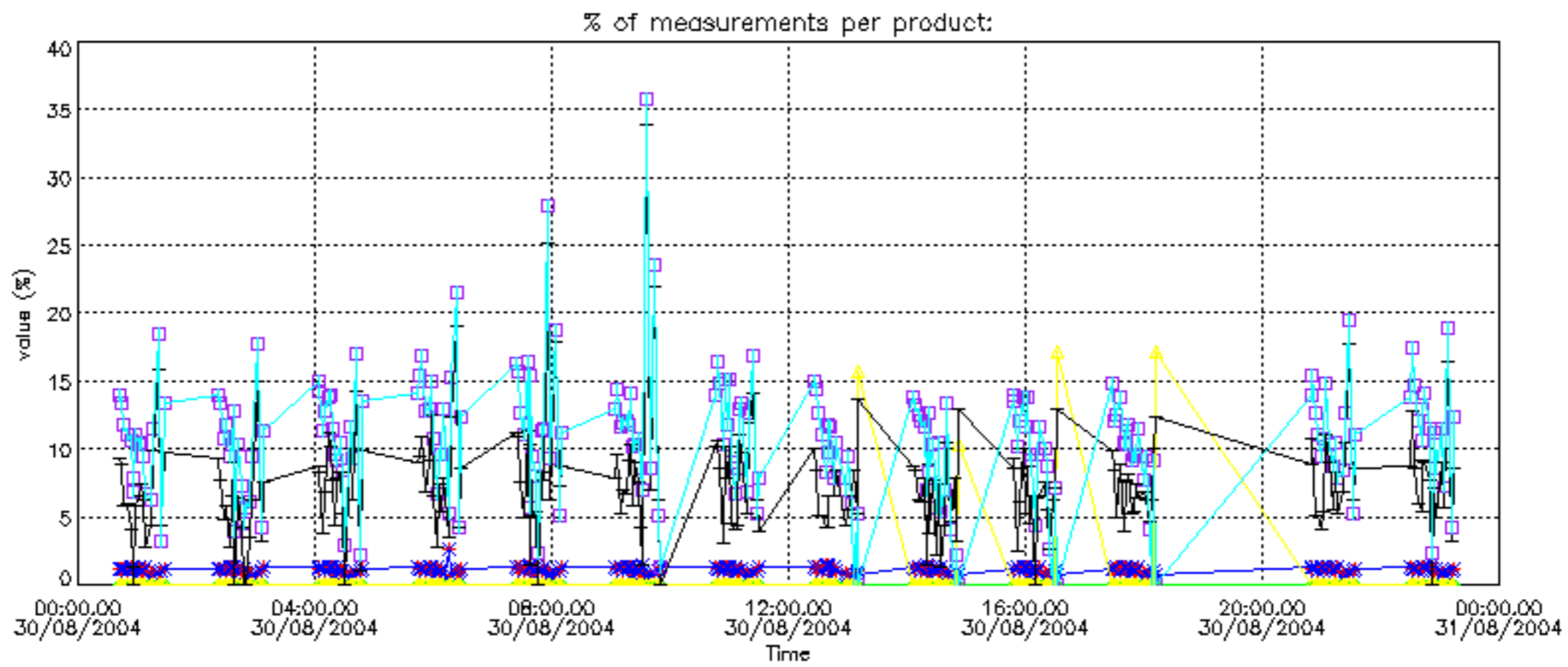
Percentage of flagged data per NO2 profile



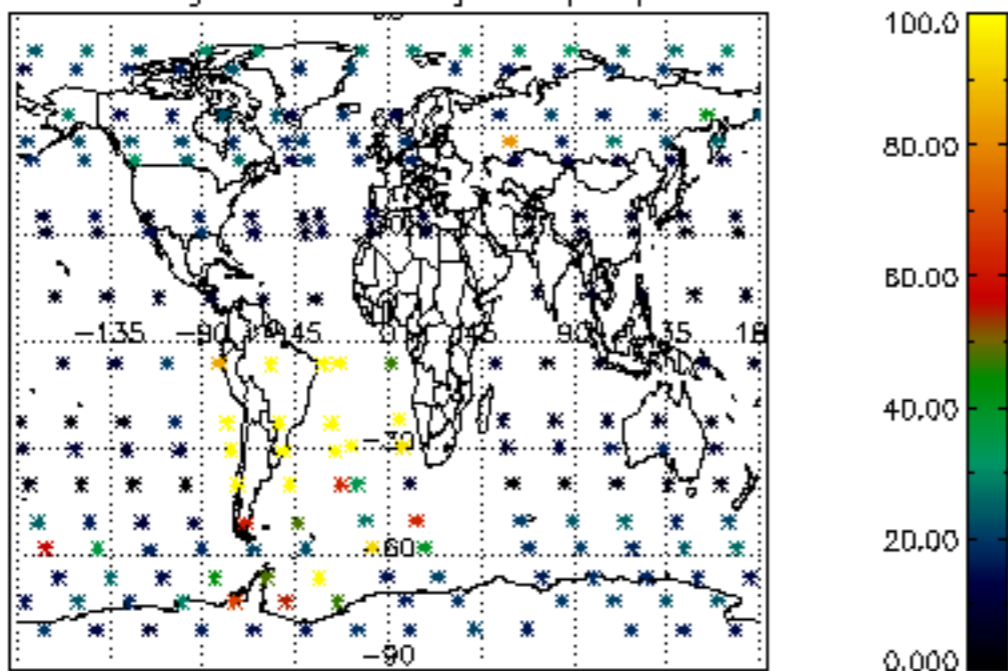
Percentage of flagged data per NO3 profile



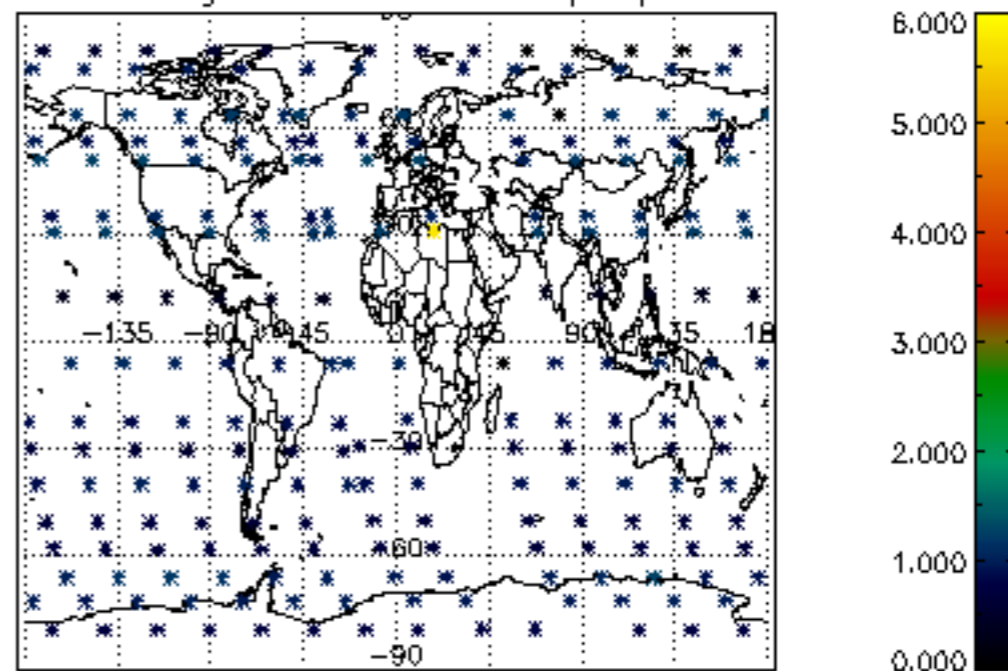




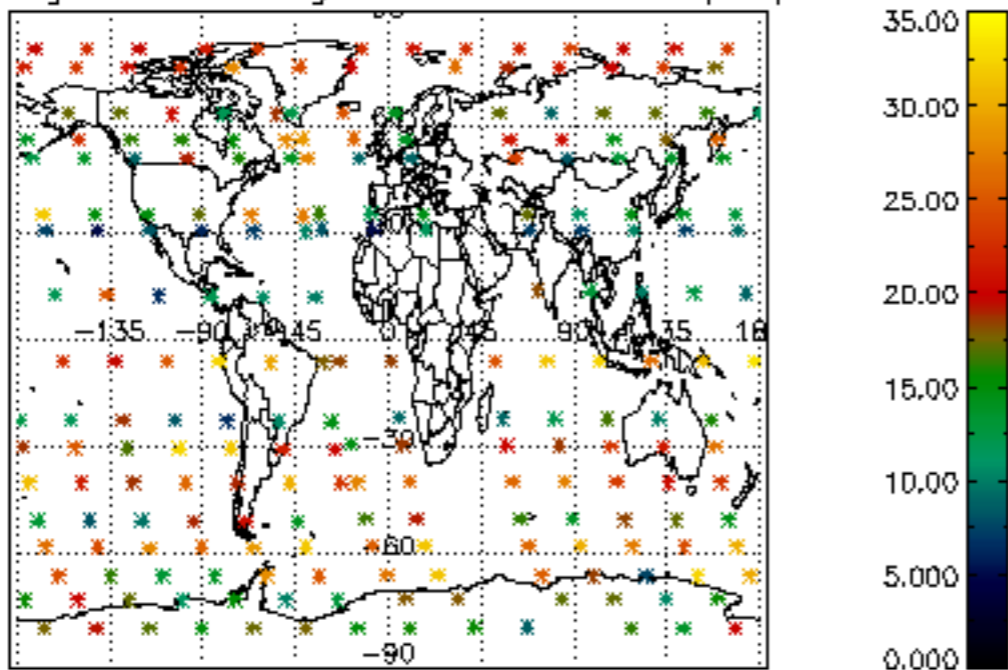
Percentage of cosmic ray hits per profile



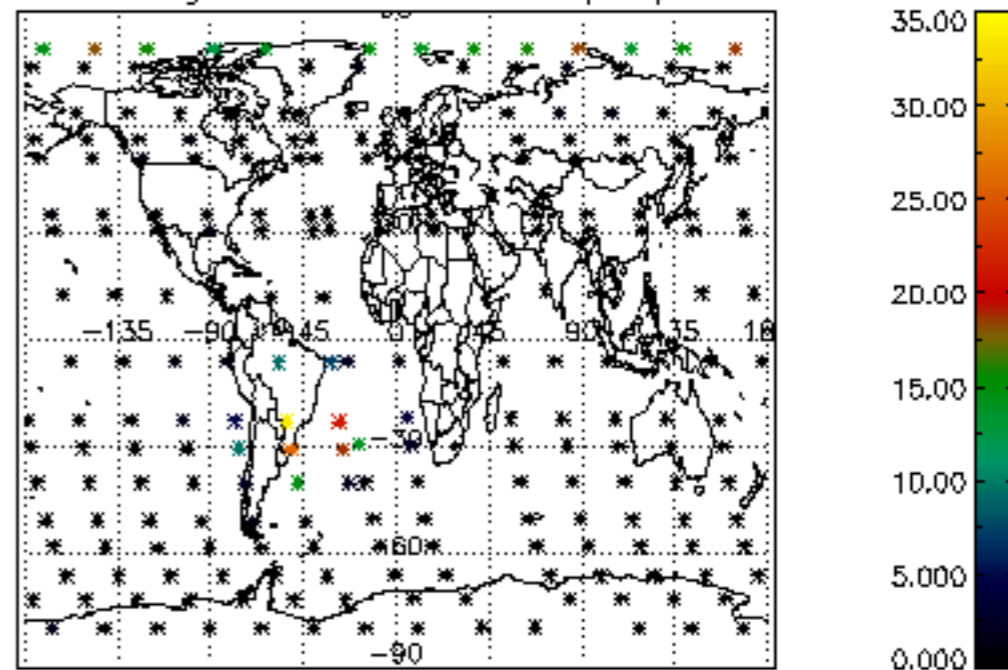
Percentage of datation errors per profile



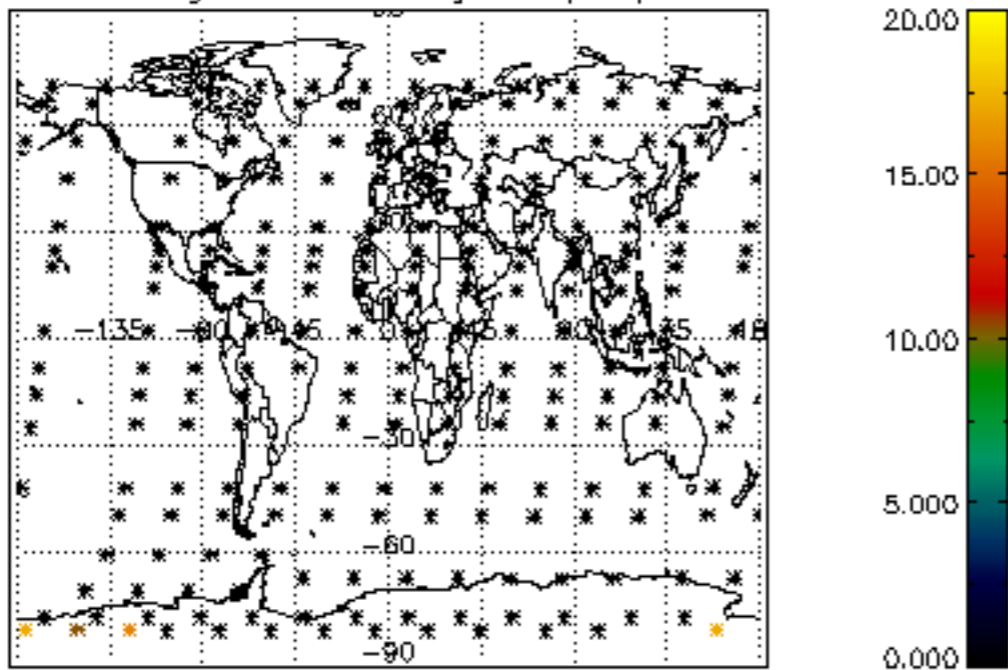
Percentage of star falling outside central band per profile



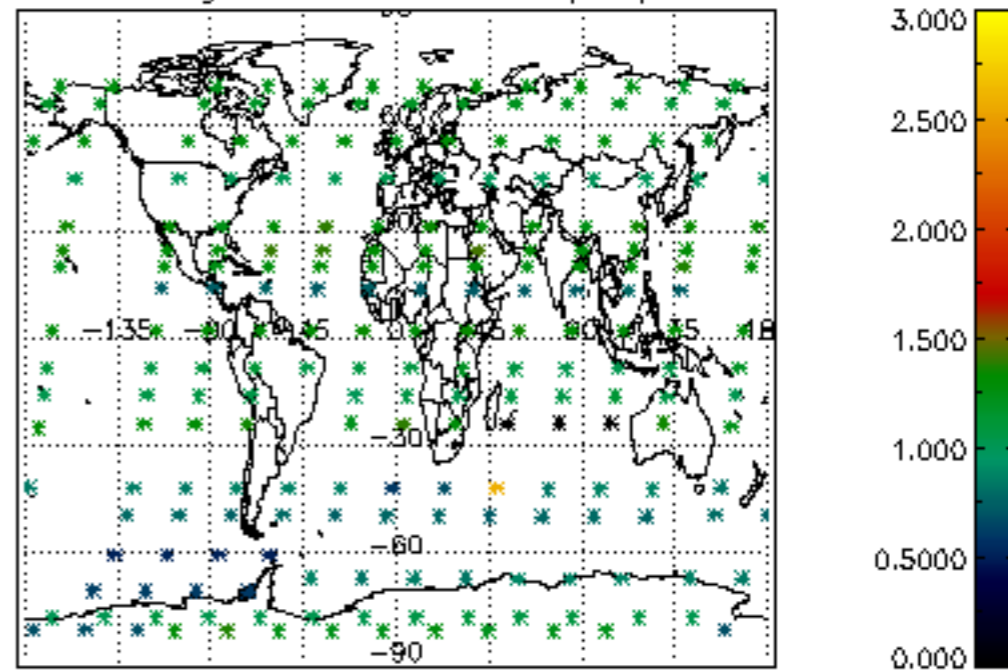
Percentage of saturation errors per profile



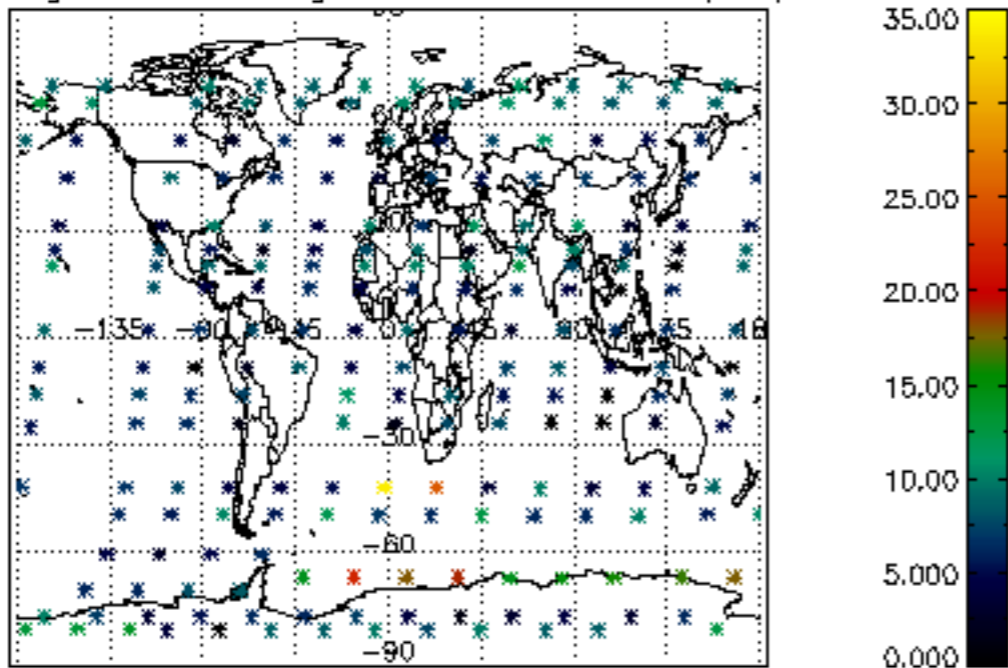
Percentage of cosmic ray hits per profile



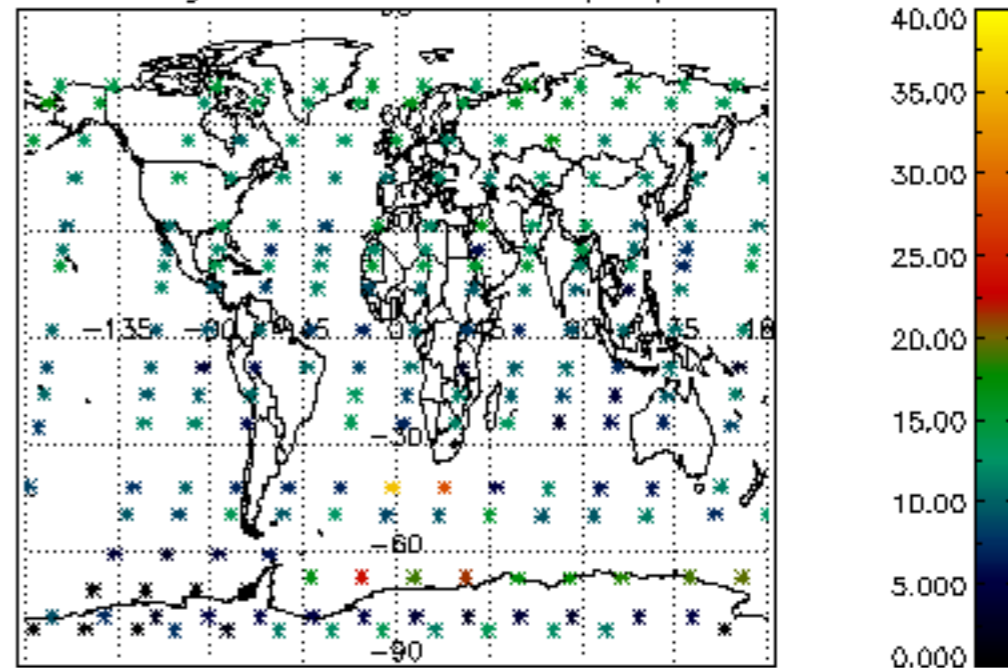
Percentage of datation errors per profile

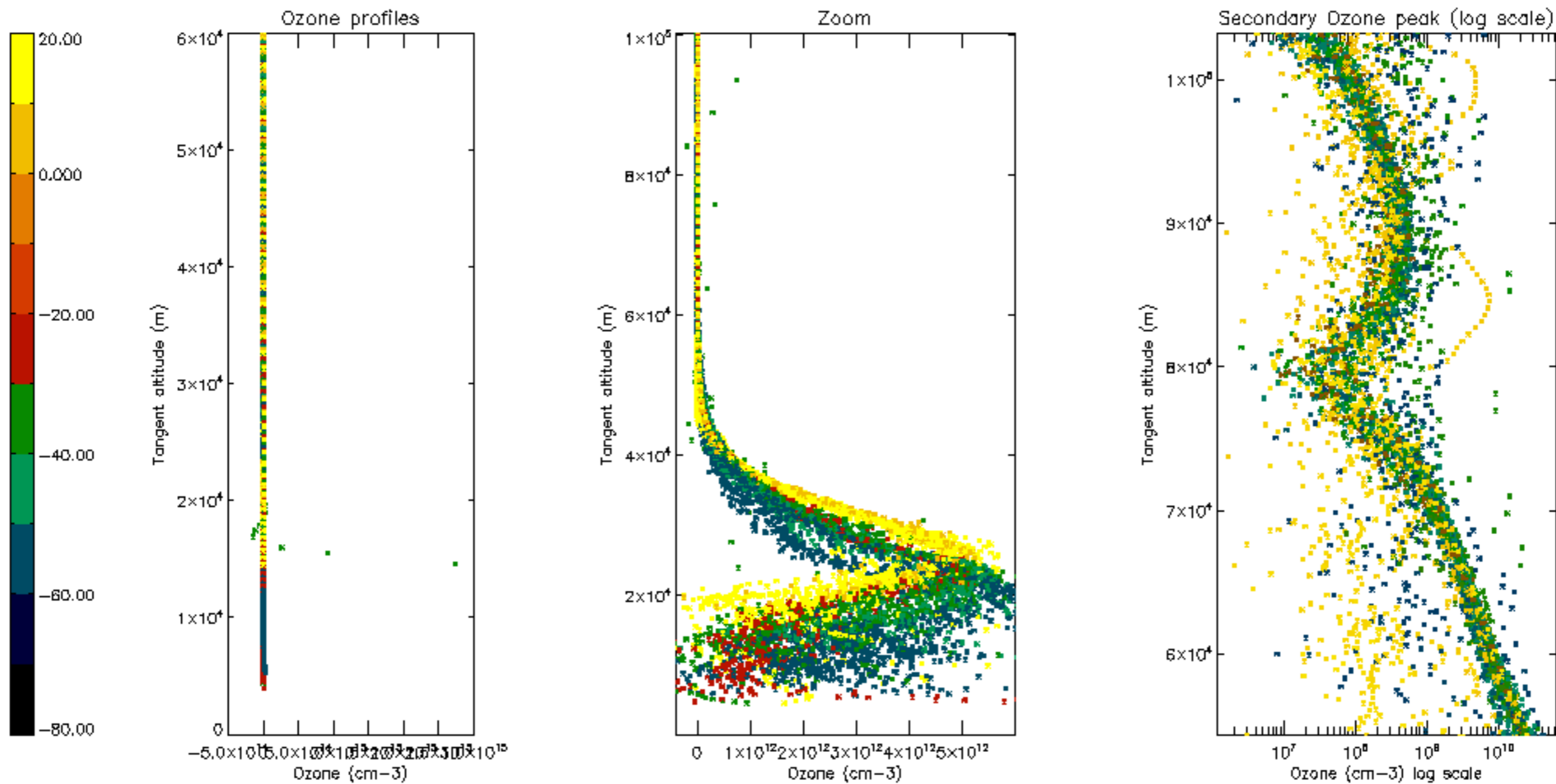


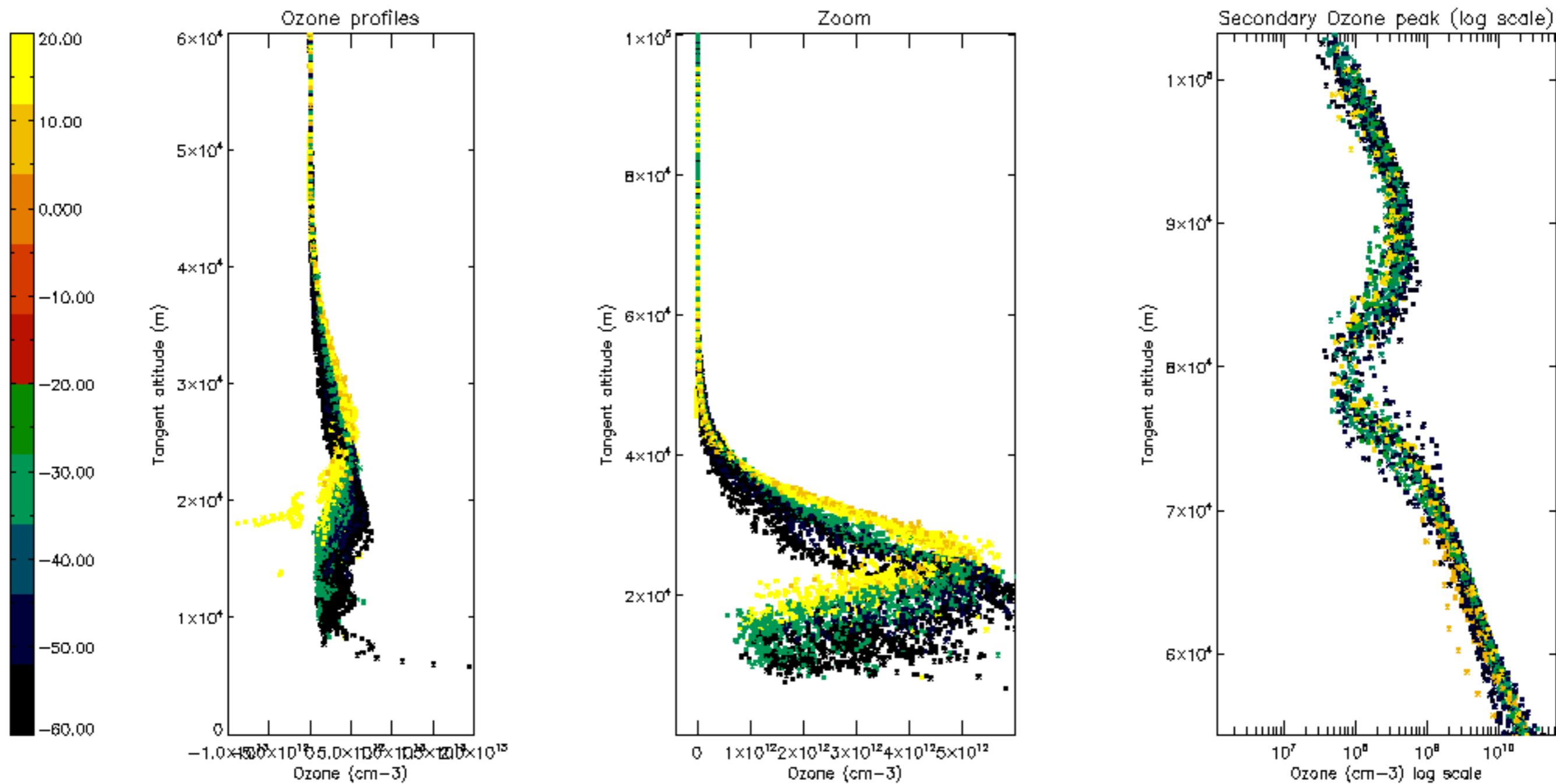
Percentage of star falling outside central band per profile

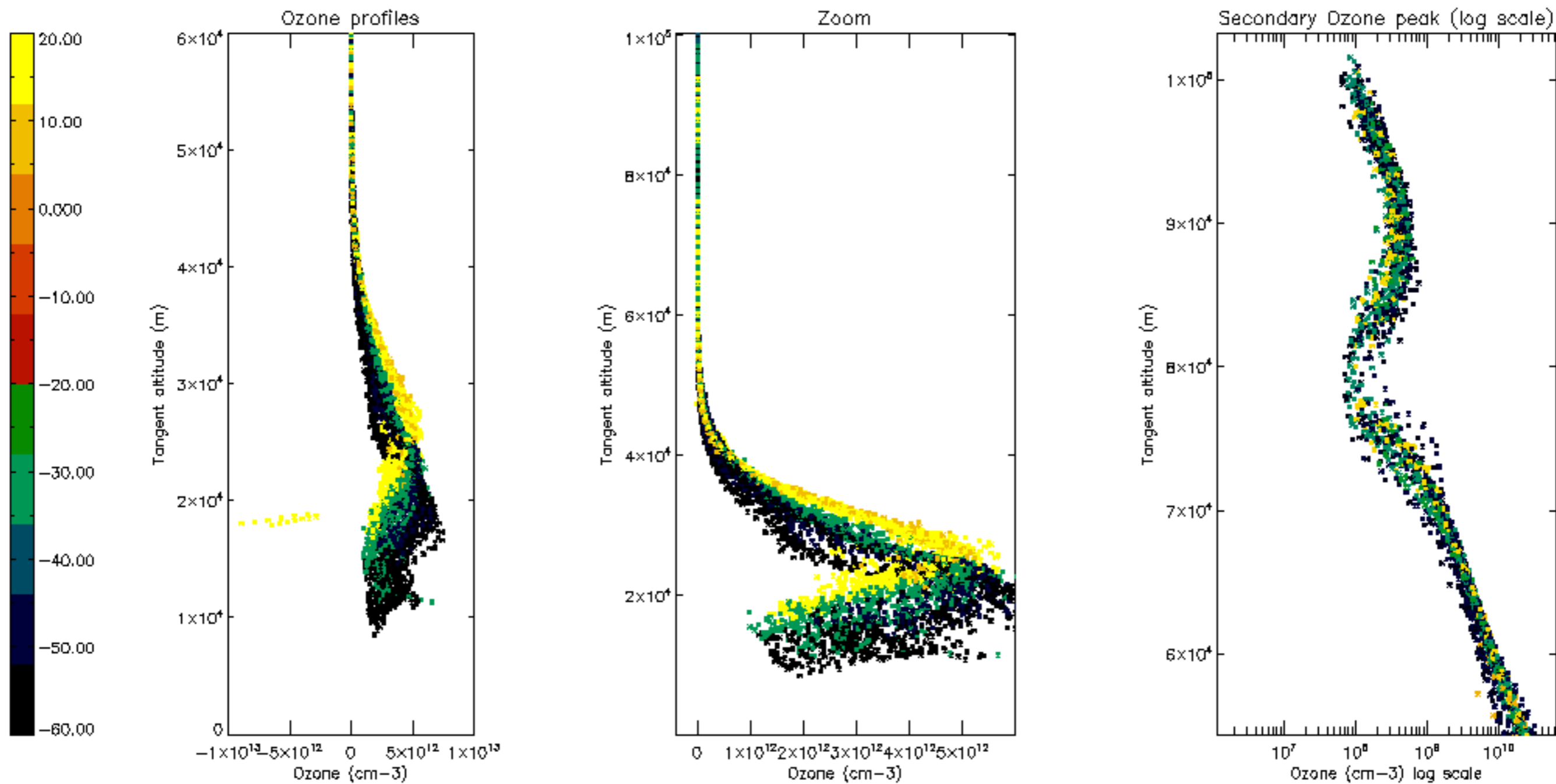


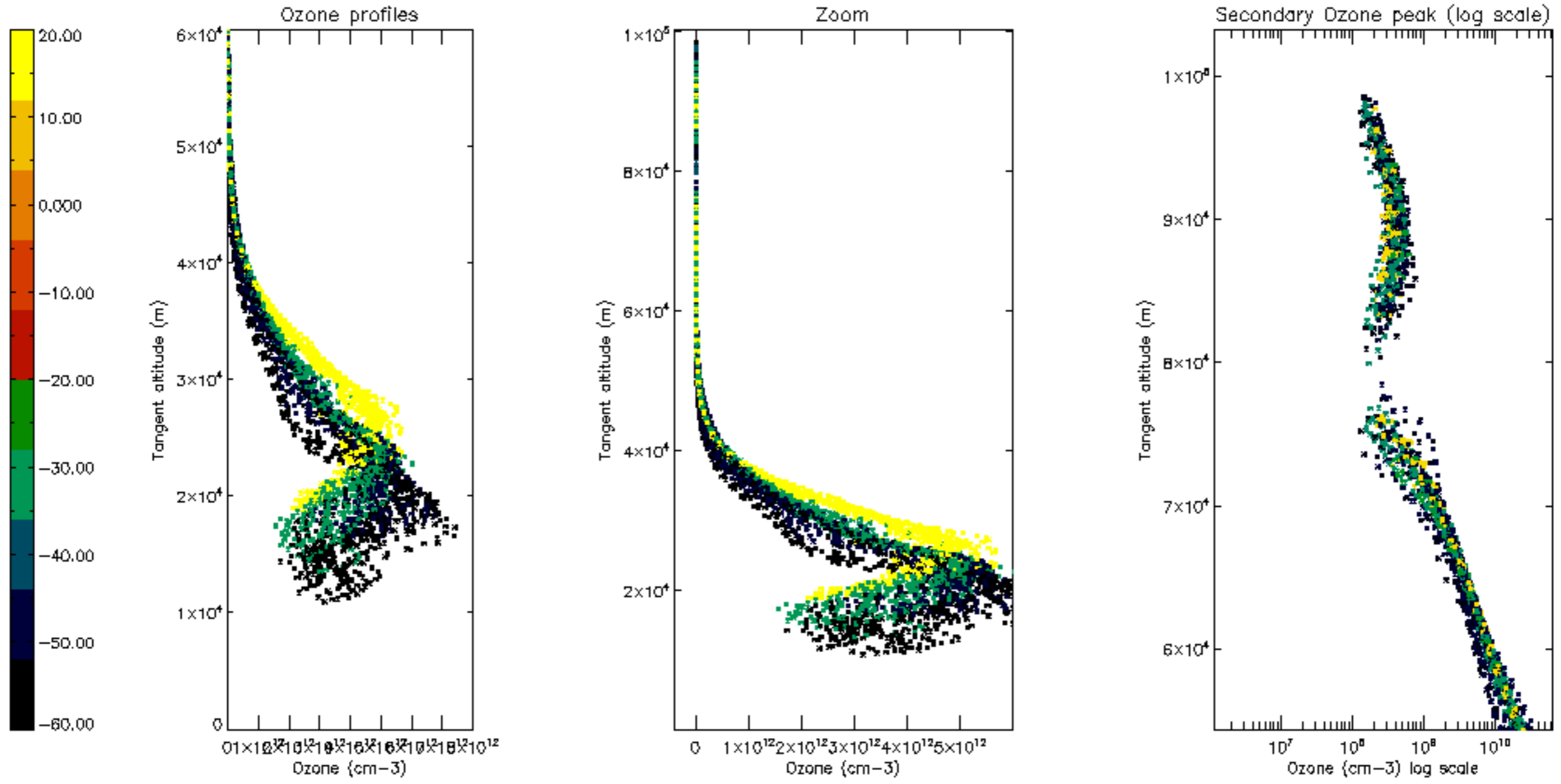
Percentage of saturation errors per profile

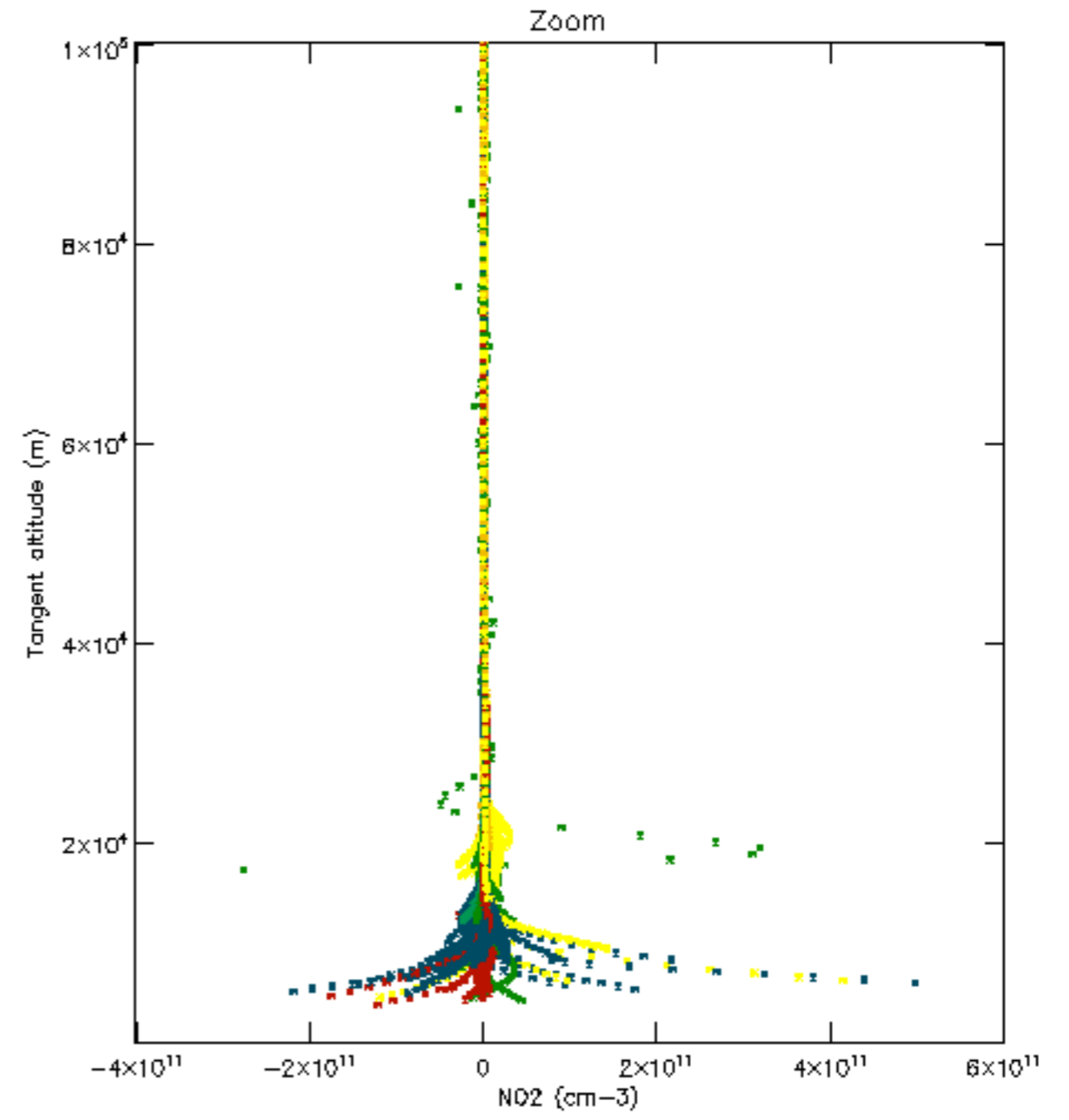
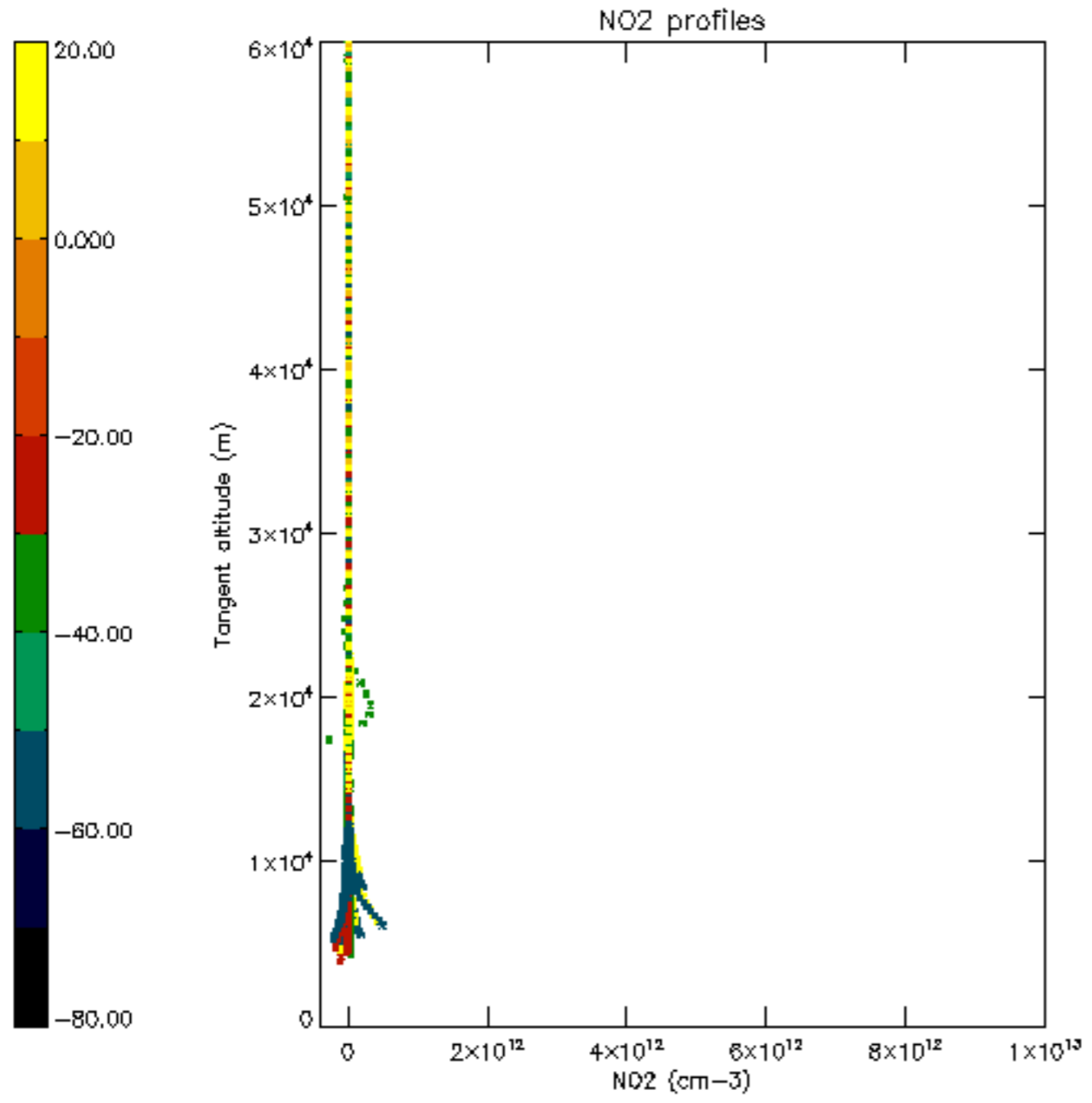


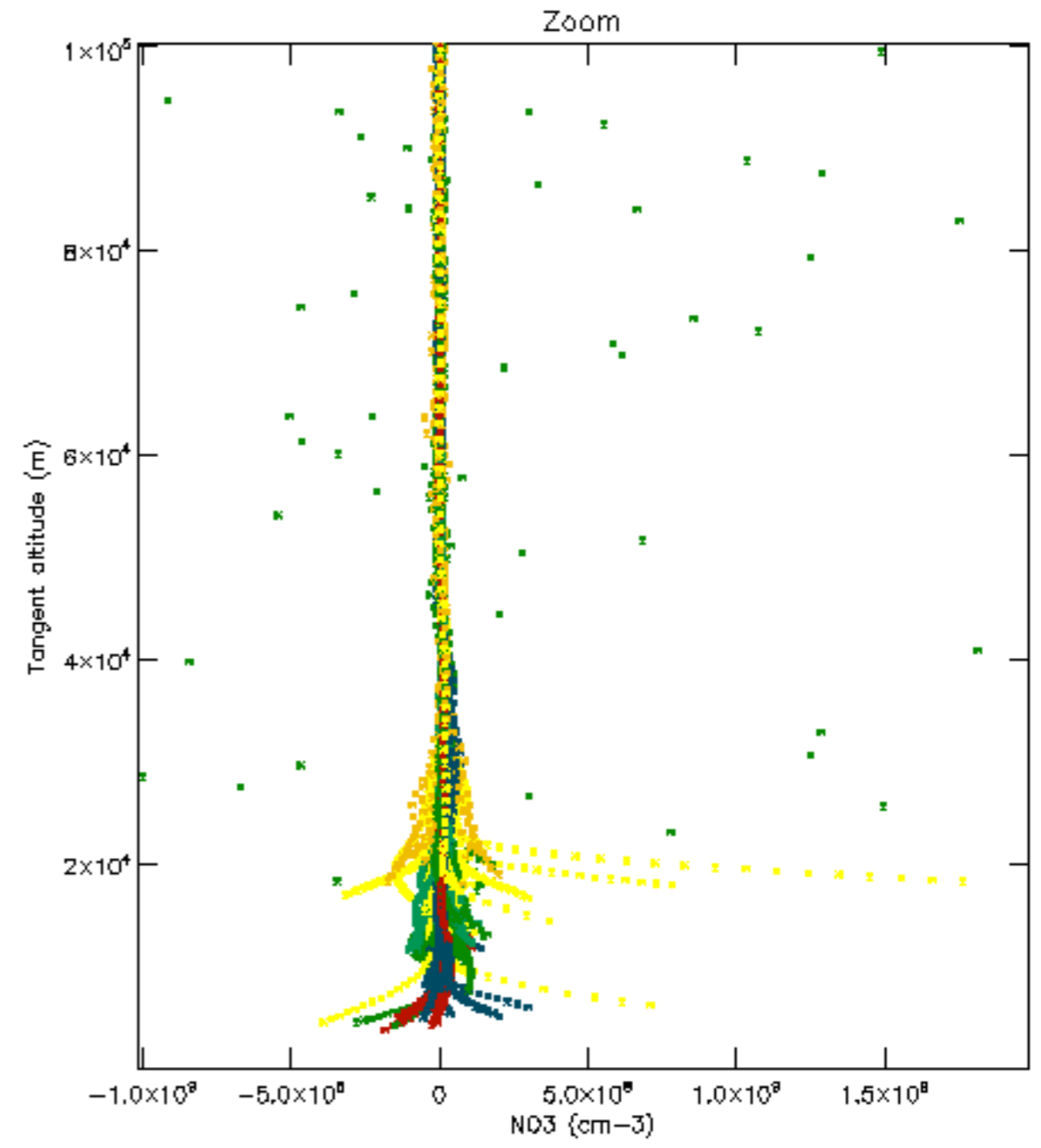
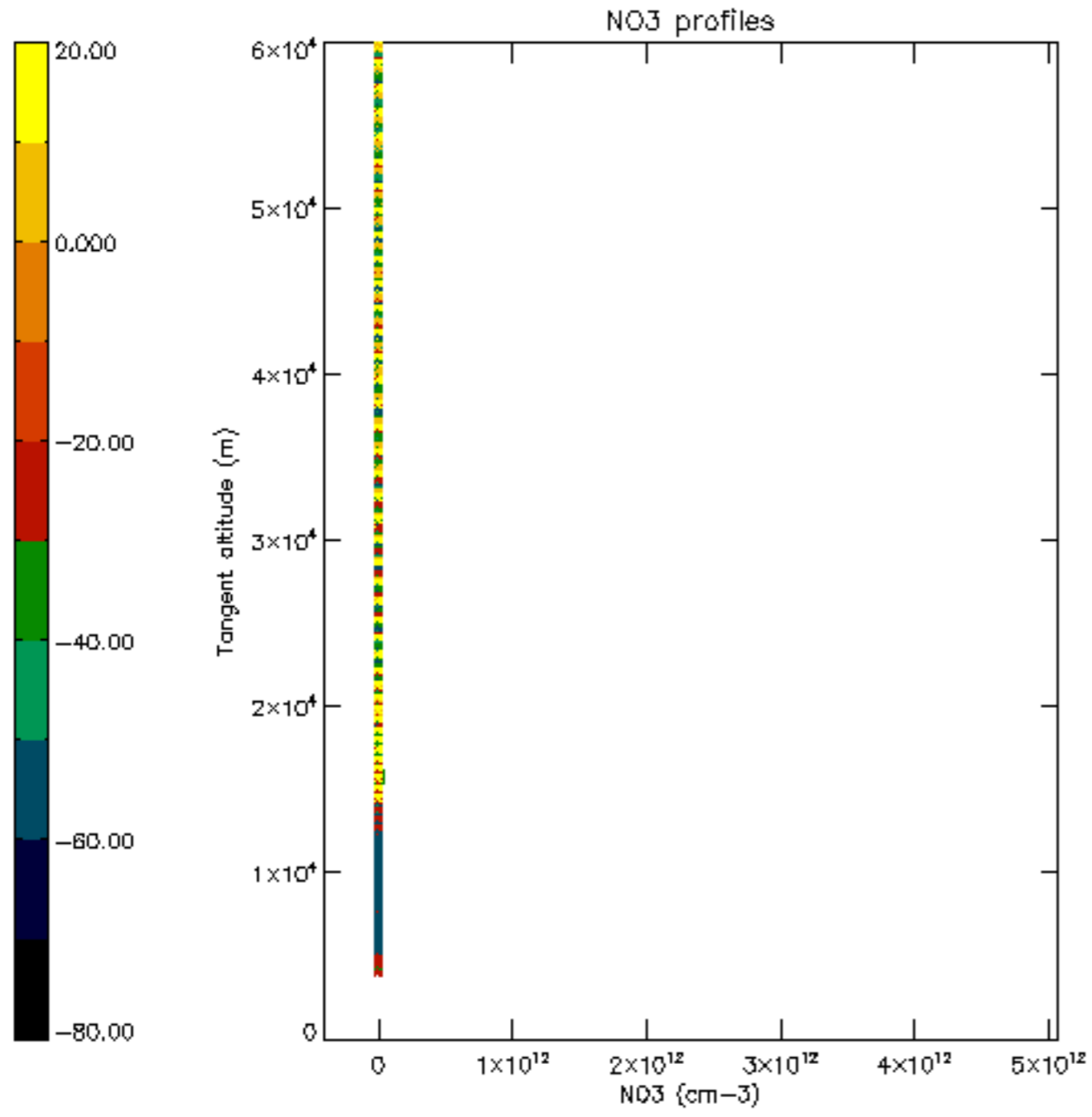


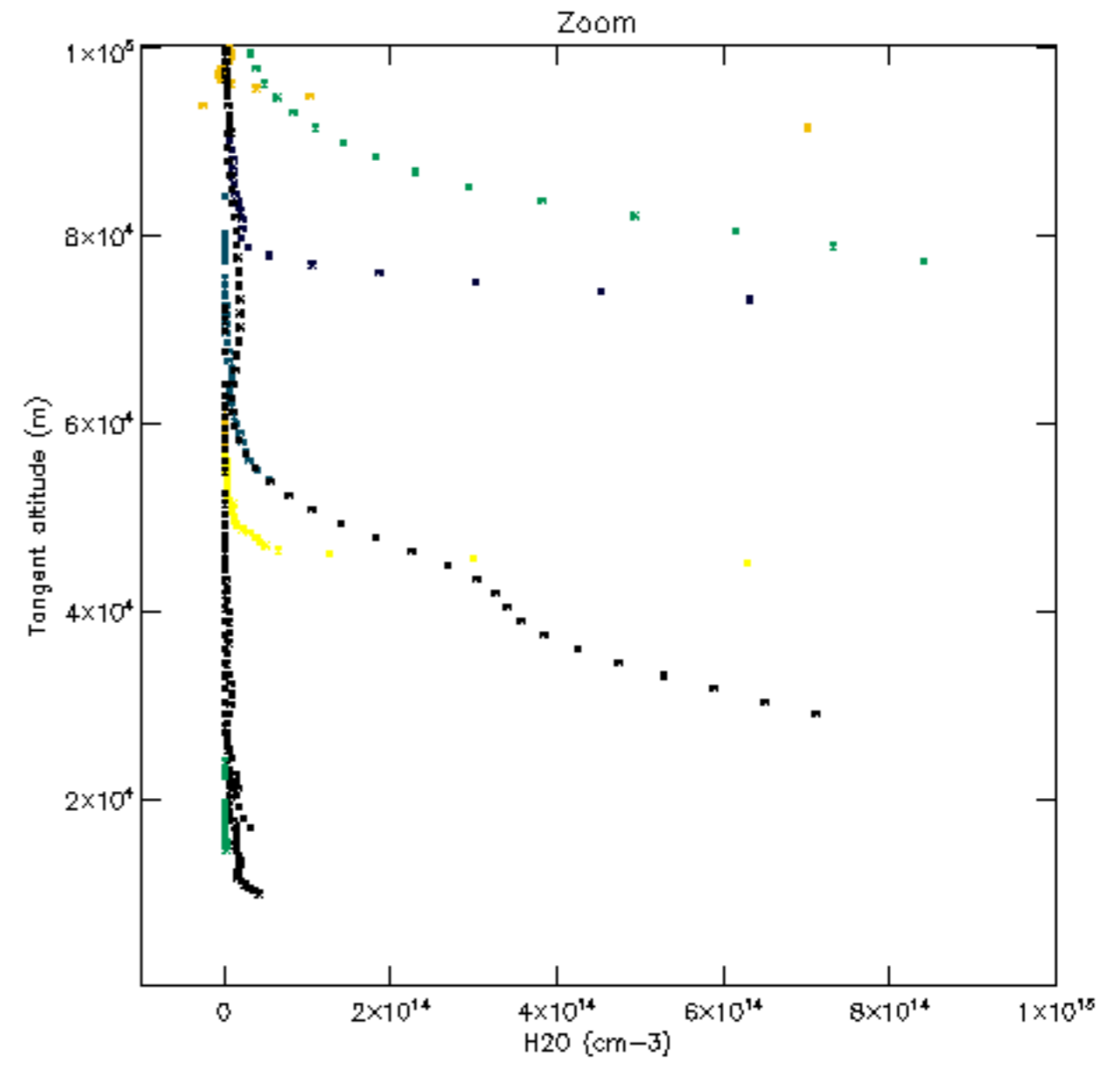
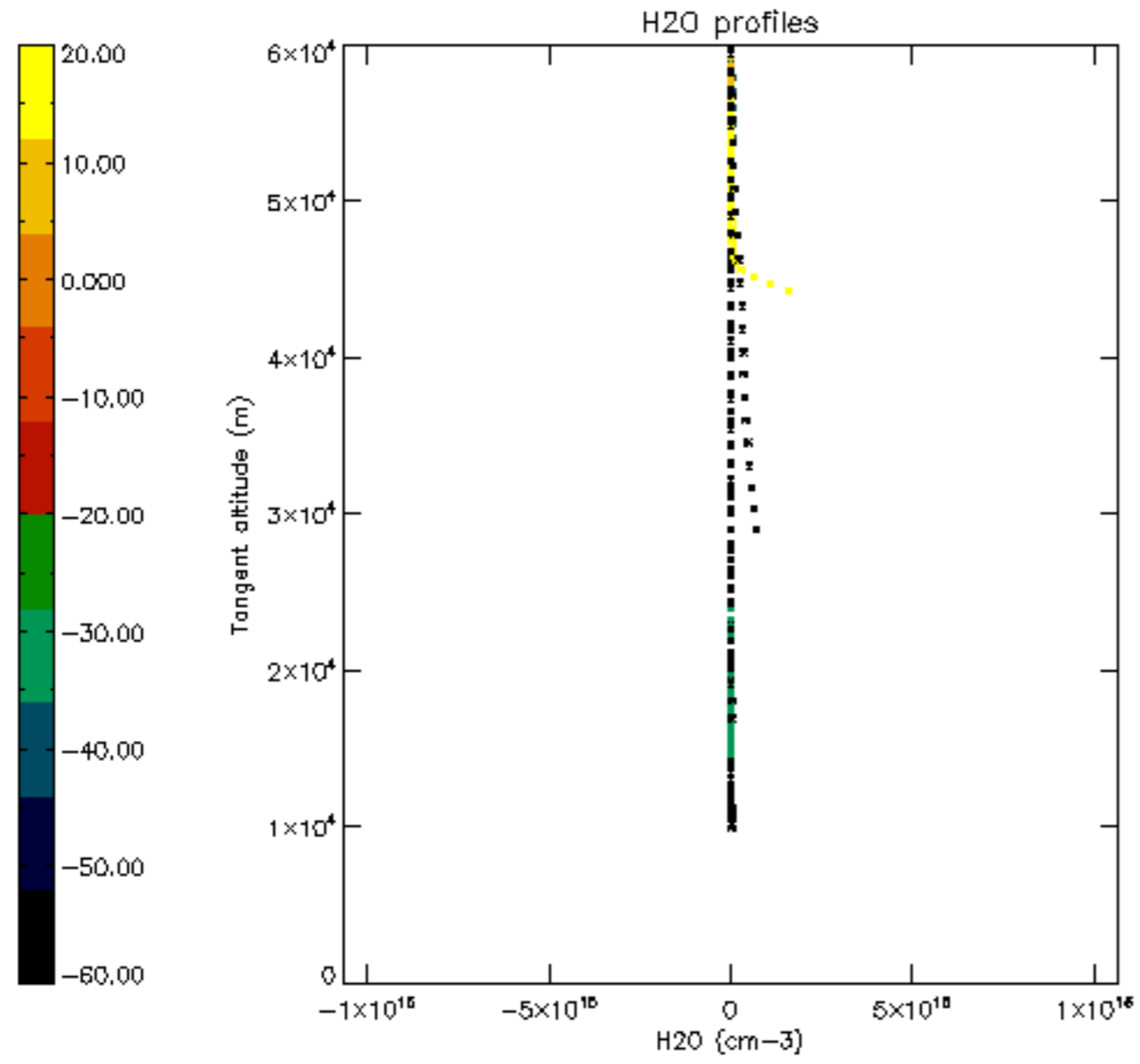


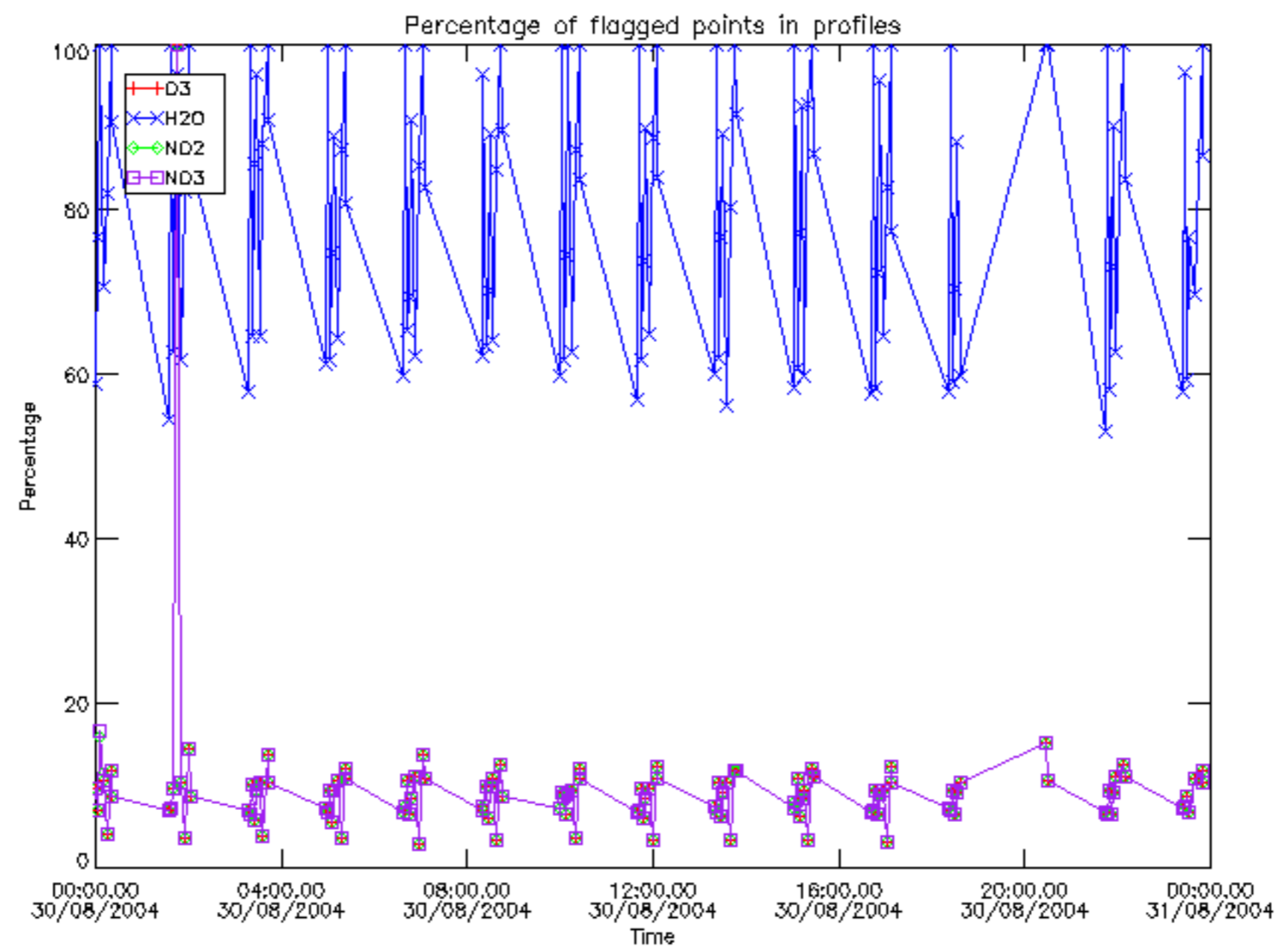




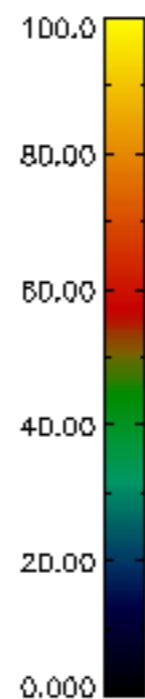
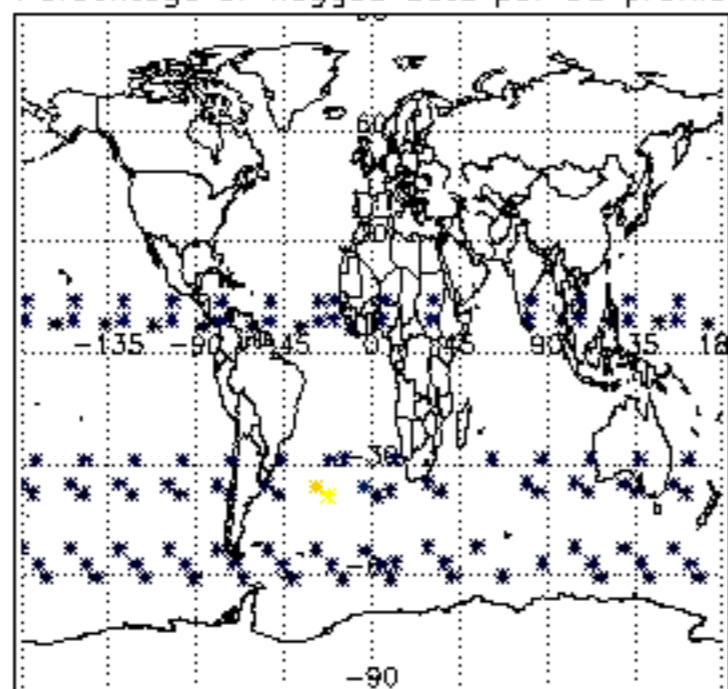




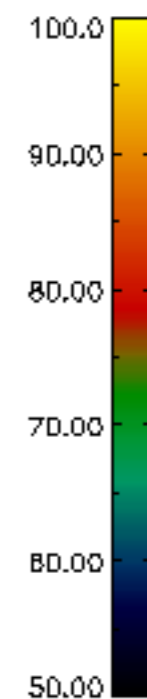
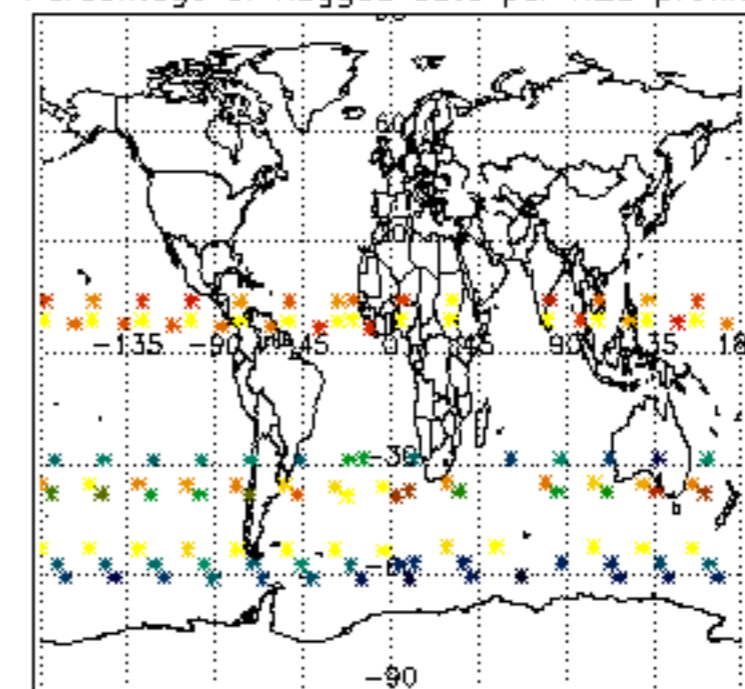




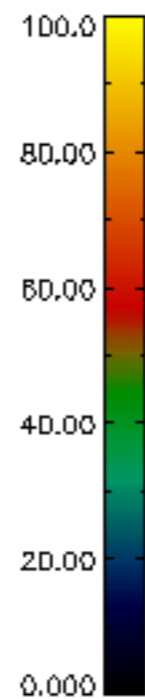
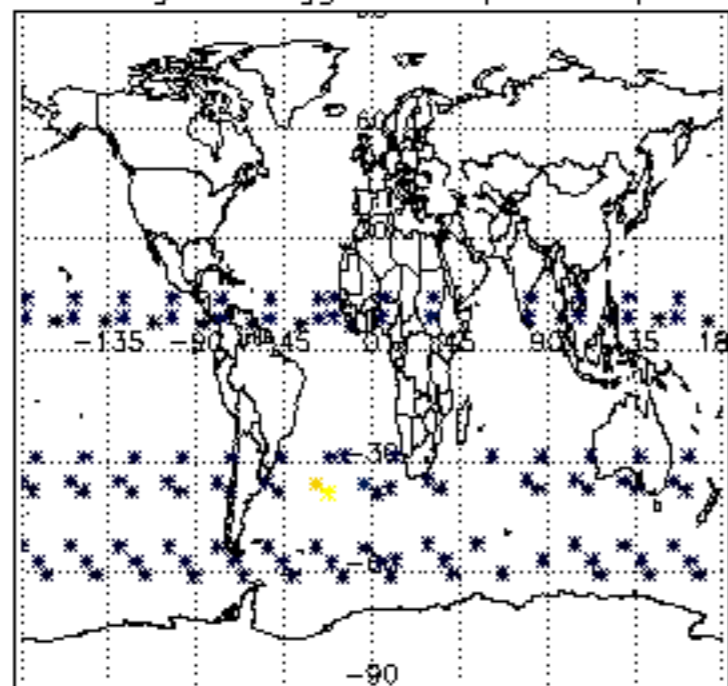
Percentage of flagged data per D3 profile



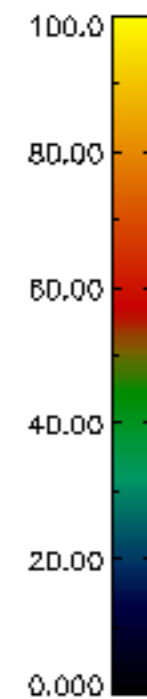
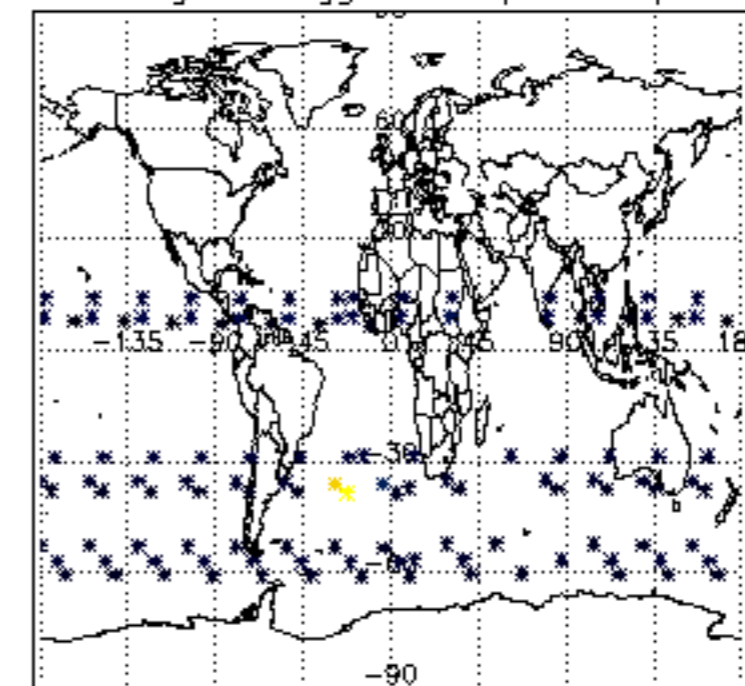
Percentage of flagged data per H2O profile

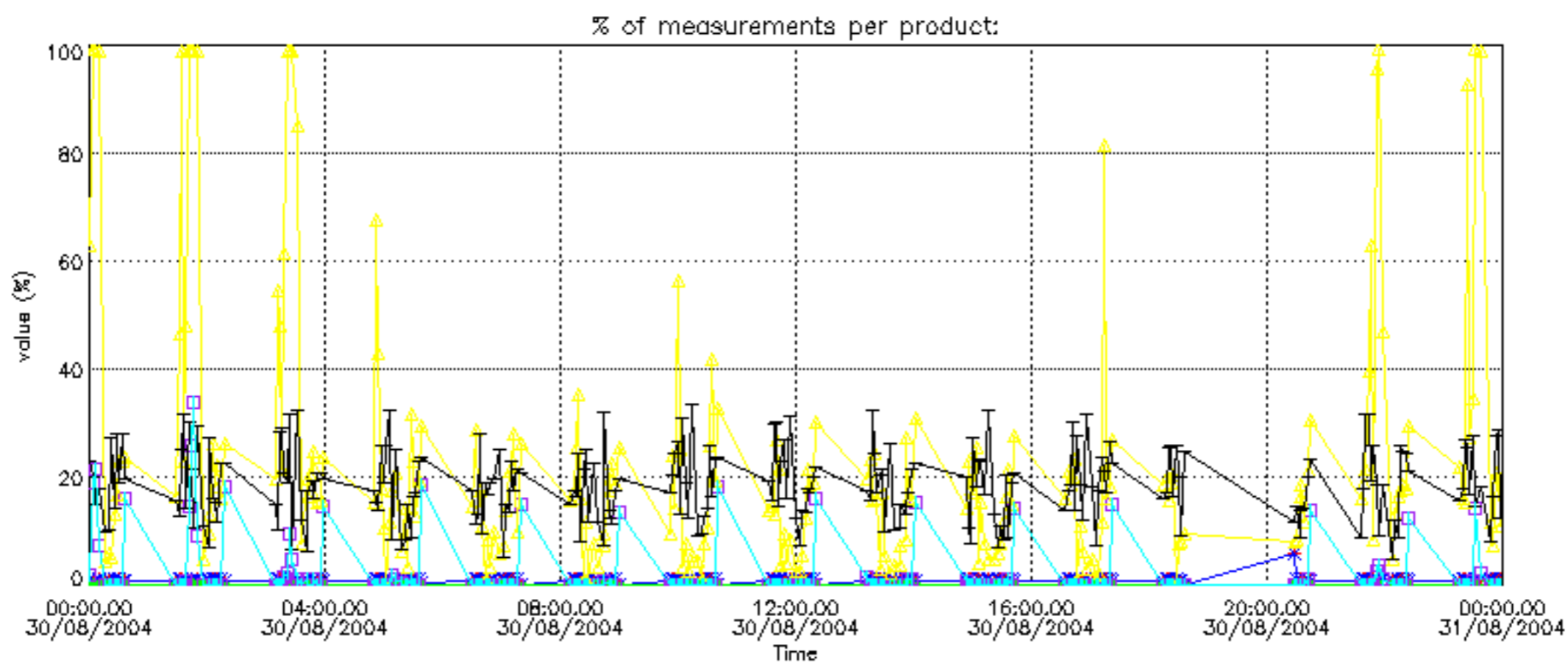


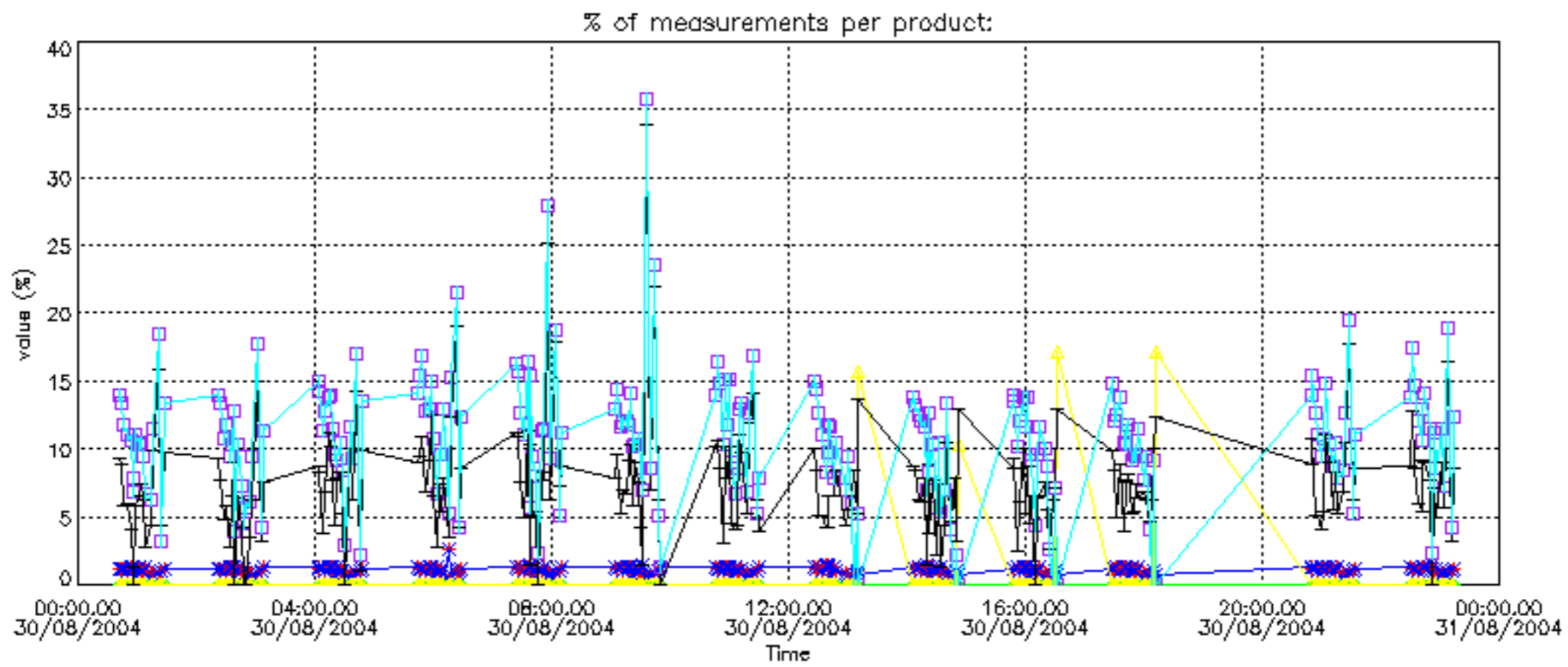
Percentage of flagged data per NO2 profile



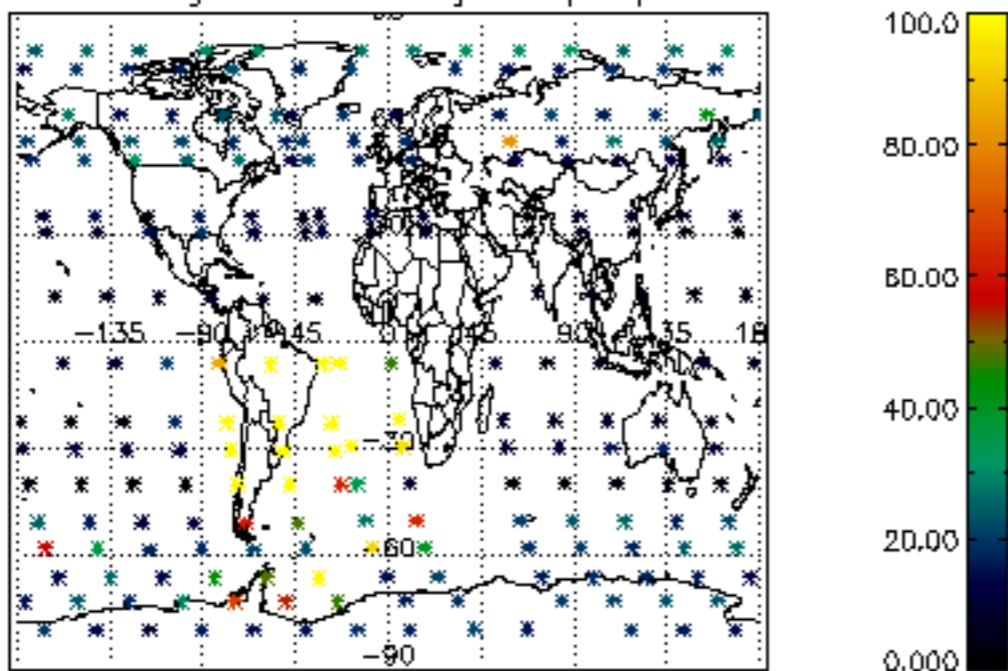
Percentage of flagged data per NO3 profile



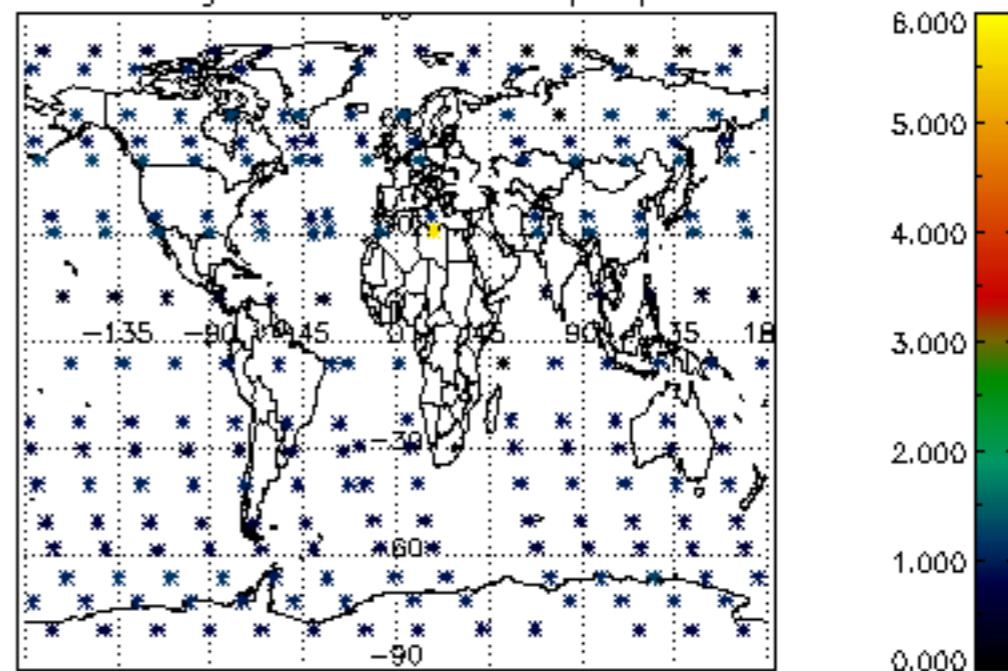




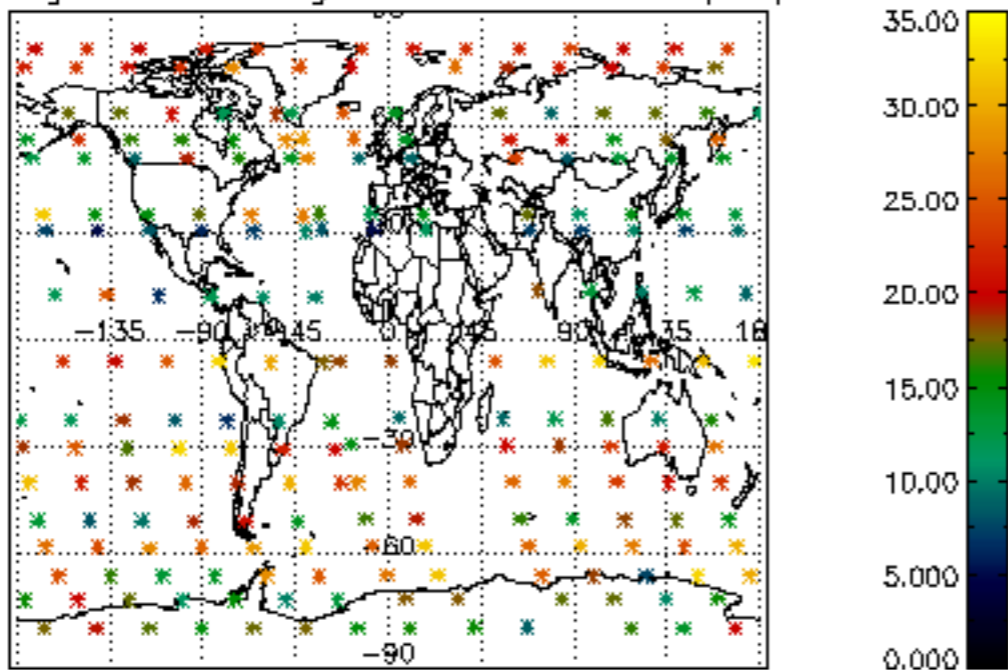
Percentage of cosmic ray hits per profile



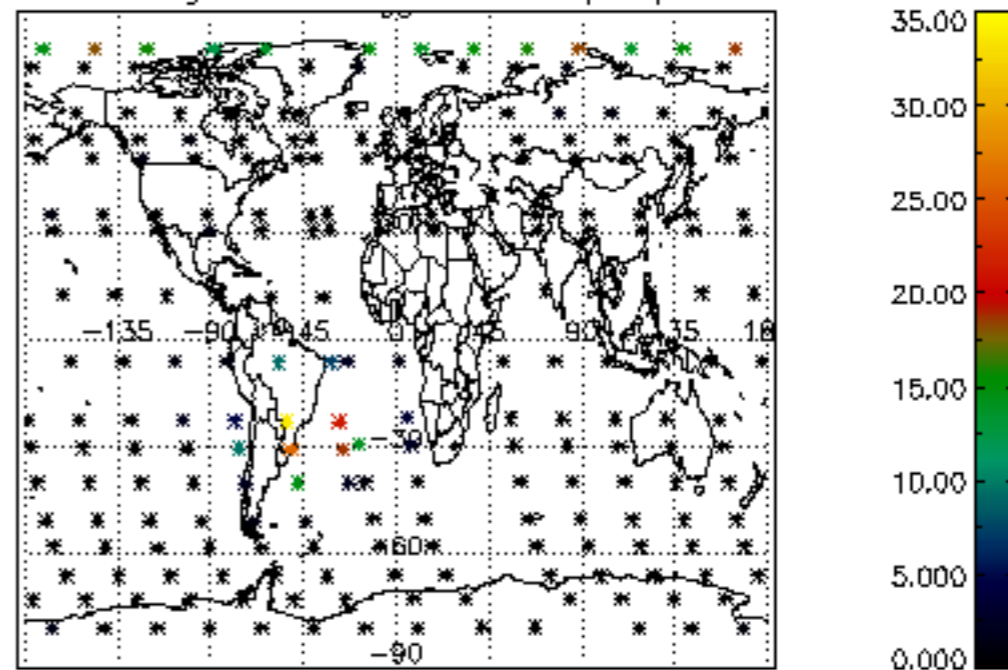
Percentage of datation errors per profile



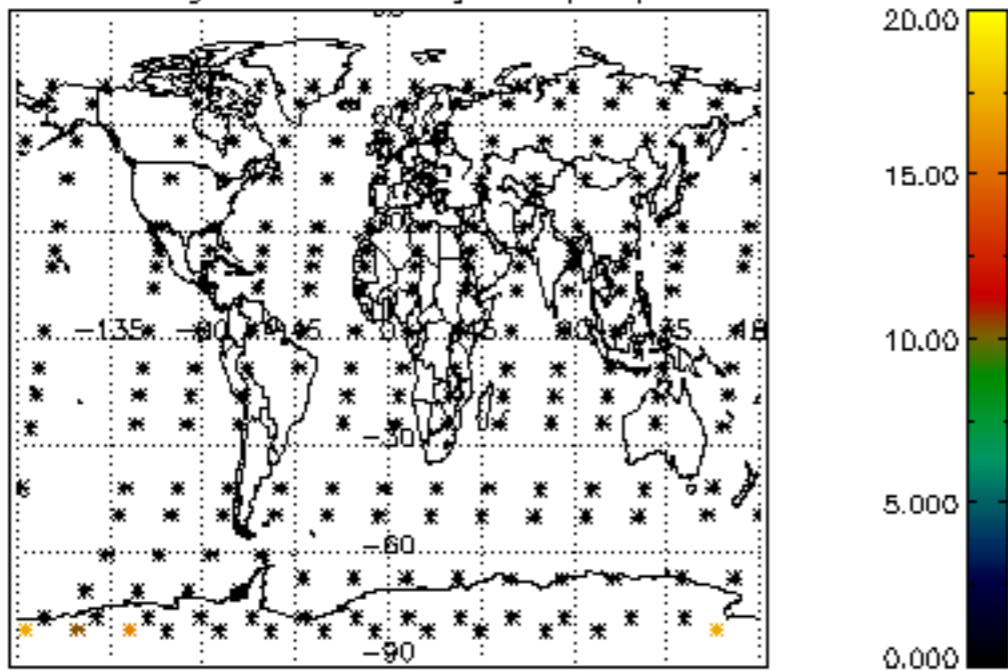
Percentage of star falling outside central band per profile



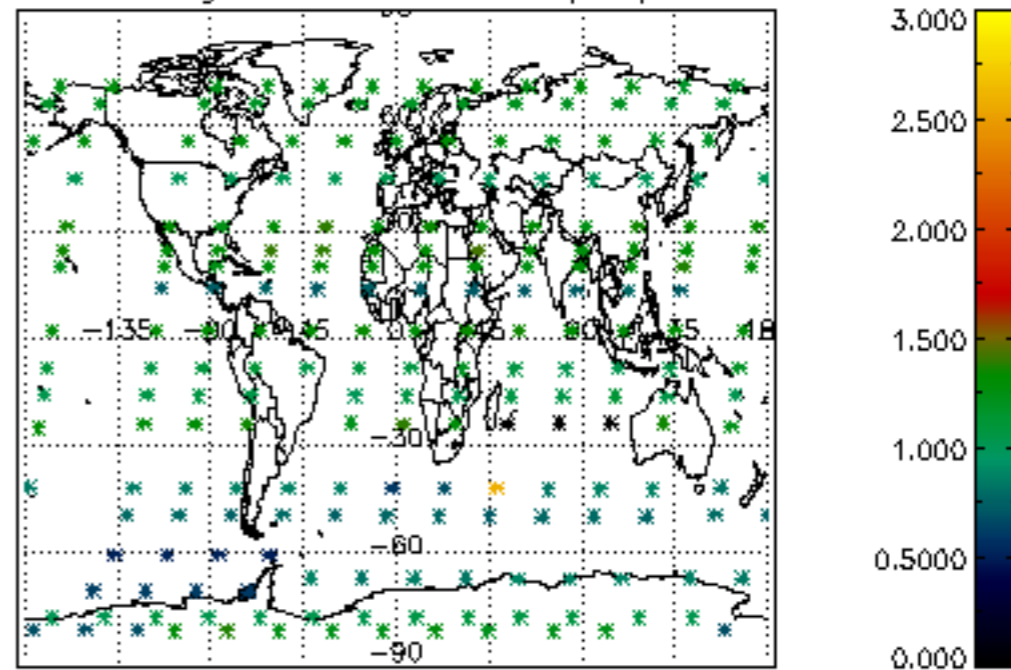
Percentage of saturation errors per profile



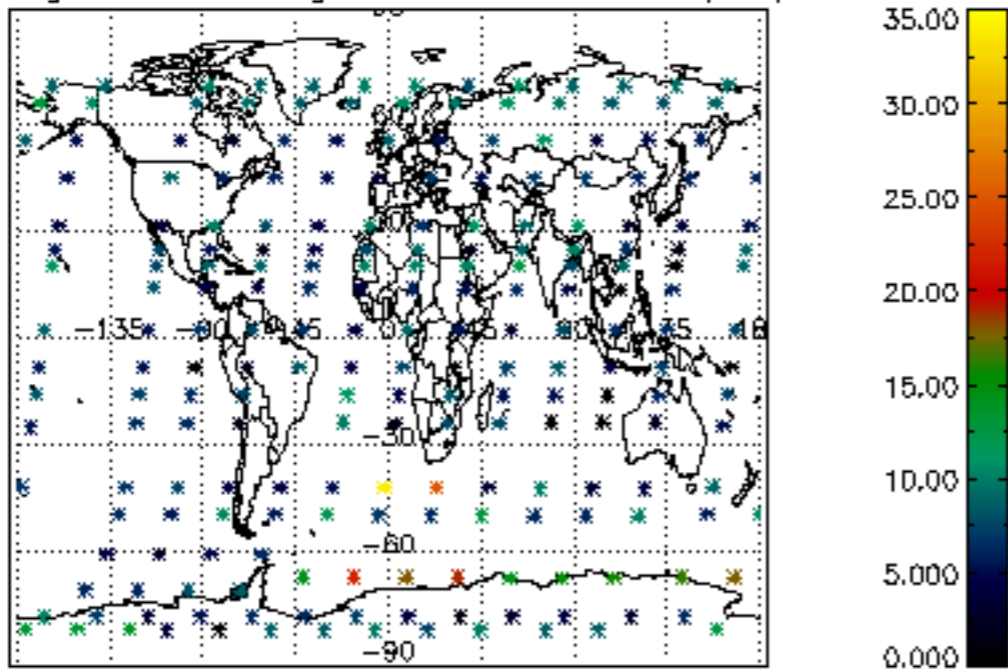
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

