

GOMOS Level 2 Daily Report

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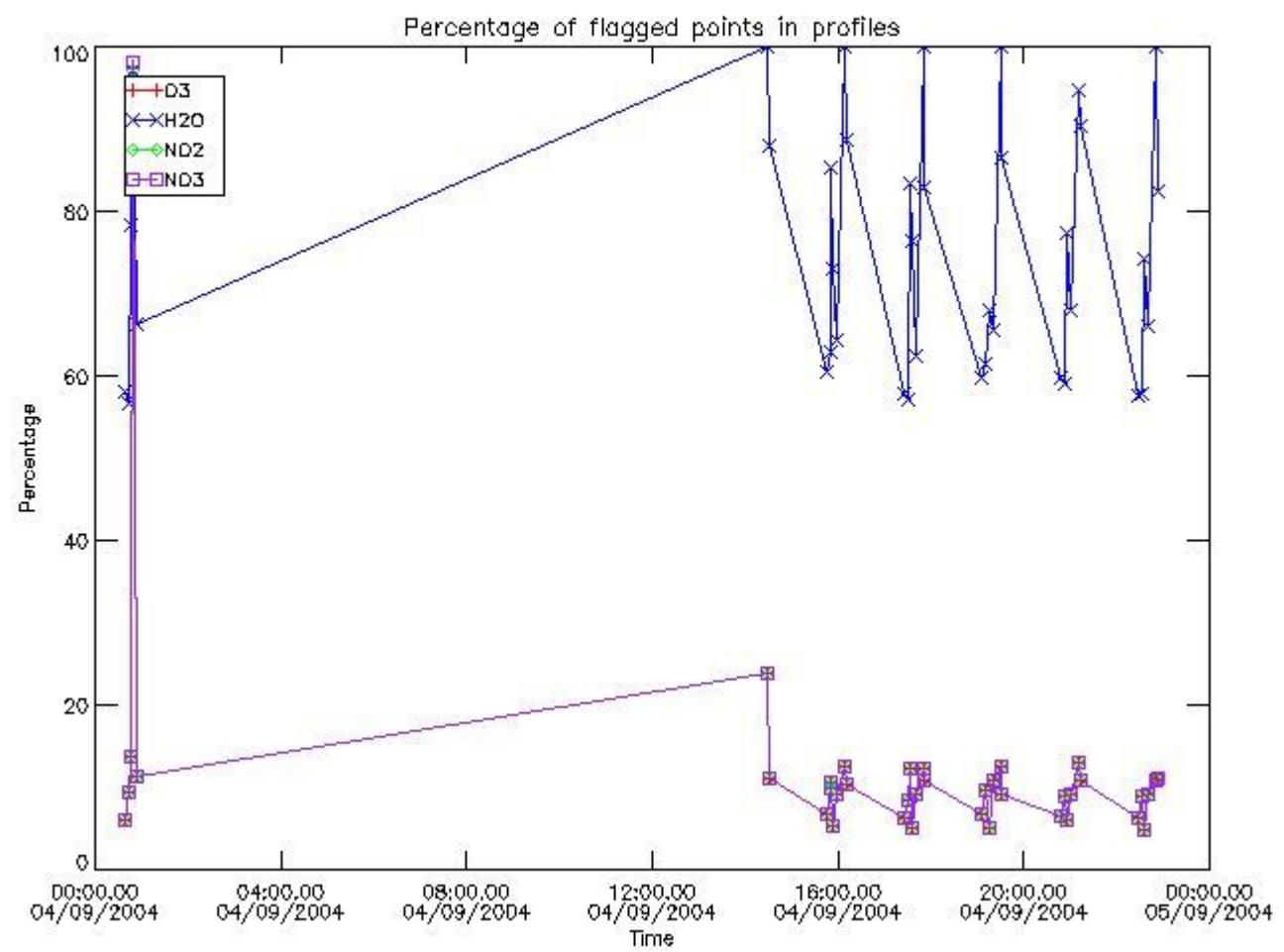
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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that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

Item	Value
Time of report generation	19APR2013 10:13:11
Data source version	GOMOS/6.01
Start time of products	04-09-2004 (04SEP2004 00:00:00)
Stop time of products	05-09-2004 (05SEP2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	206
Nb of prods with errors	0

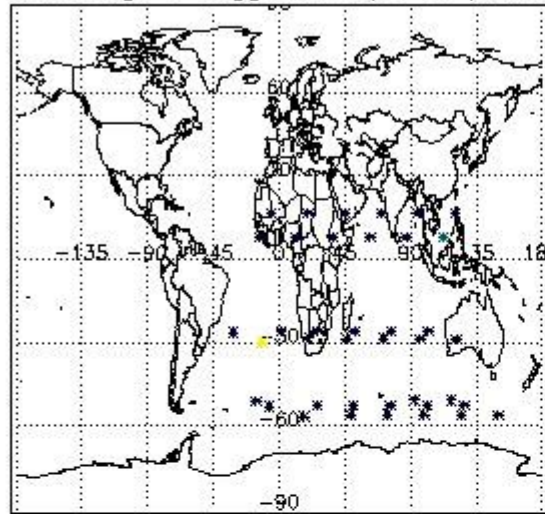
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20040904_000358_000000362030_00059_13139_3509.N1	04-SEP-2004 00:03:58	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	13139	No
2	GOM_NL__2PRFIN20040904_000621_000000402030_00059_13139_3510.N1	04-SEP-2004 00:06:21	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	13139	No
3	GOM_NL__2PRFIN20040904_000825_000000452030_00059_13139_3511.N1	04-SEP-2004 00:08:25	Bright	44.500	76	27Gam Cas	2.3000	30000.	89	13139	No
4	GOM_NL__2PRFIN20040904_001140_000000362030_00059_13139_3512.N1	04-SEP-2004 00:11:40	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	13139	No
5	GOM_NL__2PRFIN20040904_001529_000000562030_00059_13139_3513.N1	04-SEP-2004 00:15:29	Bright	56.000	160	23Gam Per	2.9300	4700.0	112	13139	No
6	GOM_NL__2PRFIN20040904_001818_000000362030_00059_13139_3514.N1	04-SEP-2004 00:18:18	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	13139	No
7	GOM_NL__2PRFIN20040904_001941_000000362030_00059_13139_3515.N1	04-SEP-2004 00:19:41	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	13139	No
8	GOM_NL__2PRFIN20040904_002329_000000582030_00059_13139_3516.N1	04-SEP-2004 00:23:29	Bright	57.500	6	13Alp Aur	0.080000	3400.0	115	13139	No
9	GOM_NL__2PRFIN20040904_002725_000000492030_00059_13139_3517.N1	04-SEP-2004 00:27:25	Bright	48.500	107	37The Aur	2.6490	11000.	97	13139	No
10	GOM_NL__2PRFIN20040904_002949_000000402030_00059_13139_3518.N1	04-SEP-2004 00:29:49	Bright	40.000	17	78Bet Gem	1.1610	4500.0	80	13139	No
11	GOM_NL__2PRFIN20040904_003129_000000712030_00059_13139_3519.N1	04-SEP-2004 00:31:29	Twilight	70.500	28	12Bet Tau	1.6500	15200.	141	13139	No
12	GOM_NL__2PRFIN20040904_003438_000000532030_00059_13139_3520.N1	04-SEP-2004 00:34:38	Twilight	52.500	44	24Gam Gem	1.9280	11000.	105	13139	No
13	GOM_NL__2PRFIN20040904_003637_000000472030_00059_13139_3521.N1	04-SEP-2004 00:36:37	Twilight	47.000	8	10Alp CMi	0.40000	6500.0	94	13139	No
14	GOM_NL__2PRFIN20040904_003937_000000842030_00059_13139_3522.N1	04-SEP-2004 00:39:37	Dark	83.500	14	58Alp Ori	0.87000	3000.0	167	13139	No
15	GOM_NL__2PRFIN20040904_004431_000000552030_00059_13139_3523.N1	04-SEP-2004 00:44:31	Dark	54.500	1	9Alp CMa	-1.4400	11000.	109	13139	No
16	GOM_NL__2PRFIN20040904_004612_000000452030_00059_13139_3524.N1	04-SEP-2004 00:46:12	Dark	44.500	37	25Del CMa	1.8300	5900.0	89	13139	No
17	GOM_NL__2PRFIN20040904_004829_000001042030_00059_13139_3525.N1	04-SEP-2004 00:48:29	Dark	103.50	7	19Bet Ori	0.10000	14000.	207	13139	No
18	GOM_NL__2PRFIN20040904_005353_000000452030_00059_13139_3526.N1	04-SEP-2004 00:53:53	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	13139	No
19	GOM_NL__2PRFIN20040904_142847_000000432030_00068_13148_3543.N1	04-SEP-2004 14:28:47	Dark	42.500	135	Bet Hyi	2.8200	5800.0	85	13148	No
20	GOM_NL__2PRFIN20040904_143024_000000462030_00068_13148_3496.N1	04-SEP-2004 14:30:24	Dark	46.000	9	Alp Eri	0.45300	24000.	92	13148	No
21	GOM_NL__2PRFIN20040904_143424_000000402030_00068_13148_3497.N1	04-SEP-2004 14:34:24	Straylight	40.000	148	Alp Tuc	2.8780	4100.0	80	13148	No
22	GOM_NL__2PRFIN20040904_143619_000000542030_00068_13148_3498.N1	04-SEP-2004 14:36:19	Straylight	54.000	84	Alp Phe	2.3970	4500.0	108	13148	No
23	GOM_NL__2PRFIN20040904_143805_000000422030_00068_13148_3499.N1	04-SEP-2004 14:38:05	Straylight	42.000	31	Alp Gru	1.7340	15200.	84	13148	No
24	GOM_NL__2PRFIN20040904_144053_000000382030_00068_13148_3500.N1	04-SEP-2004 14:40:53	Straylight	38.000	172	Gam Gru	3.0030	13100.	76	13148	No
25	GOM_NL__2PRFIN20040904_144211_000000492030_00068_13148_3501.N1	04-SEP-2004 14:42:11	Straylight	48.500	18	24Alp PsA	1.1660	9700.0	97	13148	No
26	GOM_NL__2PRFIN20040904_144449_000000802030_00068_13148_3502.N1	04-SEP-2004 14:44:49	Twilight	79.500	52	16Bet Cet	2.0370	4500.0	159	13148	No
27	GOM_NL__2PRFIN20040904_145000_000000402030_00068_13148_3503.N1	04-SEP-2004 14:50:00	Bright	40.000	154	22Bet Aqr	2.8990	5700.0	80	13148	No
28	GOM_NL__2PRFIN20040904_145122_000000412030_00068_13148_3504.N1	04-SEP-2004 14:51:22	Bright	41.000	162	34Alp Aqr	2.9440	5350.0	82	13148	No
29	GOM_NL__2PRFIN20040904_145422_000000392030_00068_13148_3505.N1	04-SEP-2004 14:54:22	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	13148	No
30	GOM_NL__2PRFIN20040904_145650_000000472030_00068_13148_3506.N1	04-SEP-2004 14:56:50	Bright	47.000	90	54Alp Peg	2.4870	11000.	94	13148	No
31	GOM_NL__2PRFIN20040904_150120_000000382030_00068_13148_3507.N1	04-SEP-2004 15:01:20	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	13148	No
32	GOM_NL__2PRFIN20040904_150316_000000392030_00068_13148_3508.N1	04-SEP-2004 15:03:16	Bright	39.000	66	37Gam Cyg	2.2080	5900.0	78	13148	No
33	GOM_NL__2PRFIN20040904_150430_000000392030_00068_13148_3509.N1	04-SEP-2004 15:04:30	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	13148	No
34	GOM_NL__2PRFIN20040904_150919_000000342030_00068_13148_3510.N1	04-SEP-2004 15:09:19	Bright	33.500	89	5Alp Cep	2.4510	8000.0	67	13148	No
35	GOM_NL__2PRFIN20040904_151137_000000432030_00068_13148_3511.N1	04-SEP-2004 15:11:37	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	13148	No
36	GOM_NL__2PRFIN20040904_151341_000000462030_00068_13148_3512.N1	04-SEP-2004 15:13:41	Bright	45.500	76	27Gam Cas	2.3000	30000.	91	13148	No
37	GOM_NL__2PRFIN20040904_151701_000000382030_00068_13148_3513.N1	04-SEP-2004 15:17:01	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	13148	No
38	GOM_NL__2PRFIN20040904_152042_000000582030_00068_13148_3514.N1	04-SEP-2004 15:20:42	Bright	58.000	160	23Gam Per	2.9300	4700.0	116	13148	No
39	GOM_NL__2PRFIN20040904_152341_000000402030_00068_13148_3515.N1	04-SEP-2004 15:23:41	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	13148	No
40	GOM_NL__2PRFIN20040904_152502_000000532030_00068_13148_3516.N1	04-SEP-2004 15:25:02	Bright	53.000	82	48Bet UMa	2.3650	10600.	106	13148	No
41	GOM_NL__2PRFIN20040904_152848_000000632030_00068_13148_3517.N1	04-SEP-2004 15:28:48	Bright	63.000	6	13Alp Aur	0.080000	3400.0	126	13148	No
42	GOM_NL__2PRFIN20040904_153247_000000512030_00068_13148_3518.N1	04-SEP-2004 15:32:47	Bright	51.000	107	37The Aur	2.6490	11000.	102	13148	No

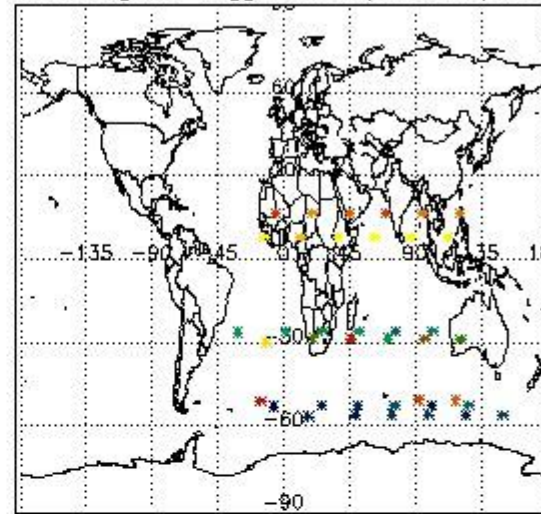


3.2 Plot quality information per product (world map)

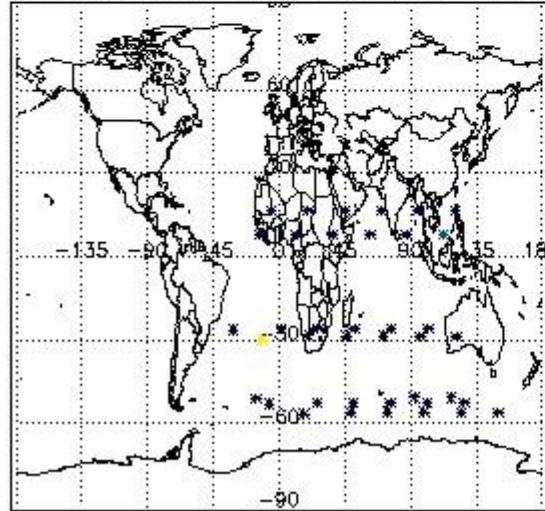
Percentage of flagged data per O3 profile



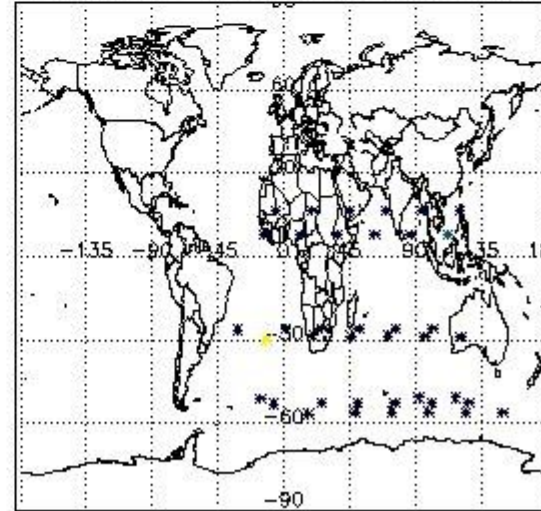
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

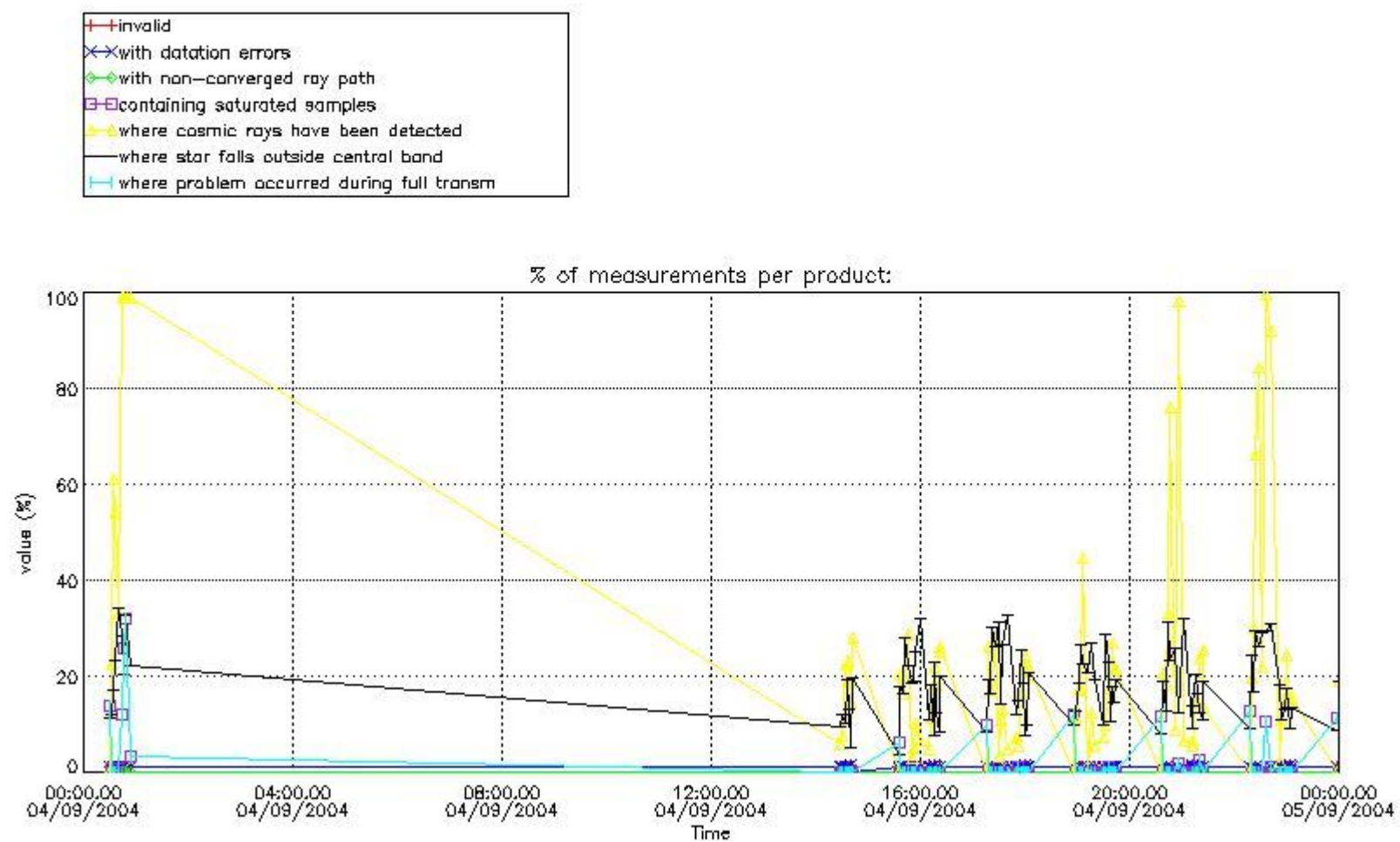


4. Level 1 quality information per product

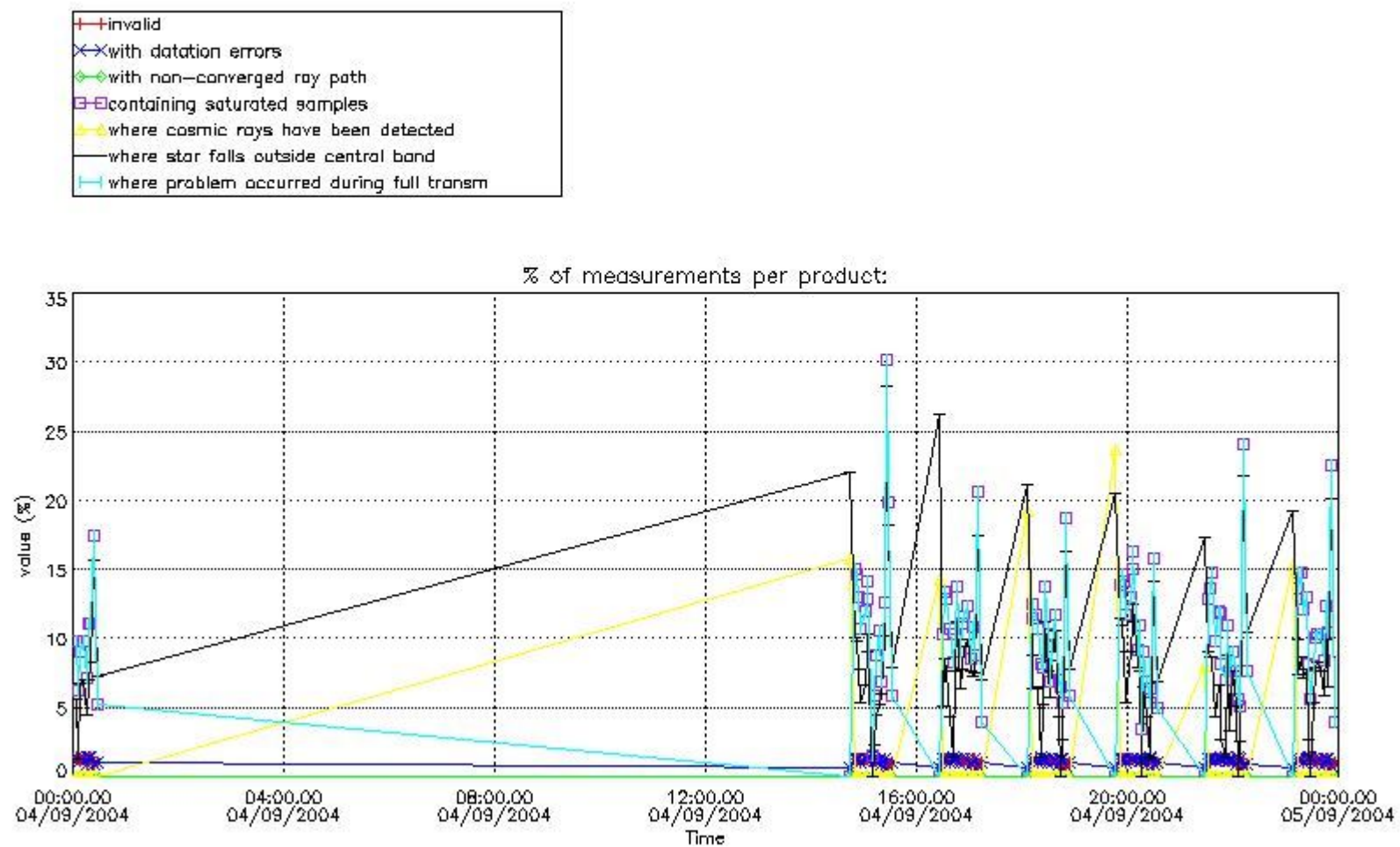
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

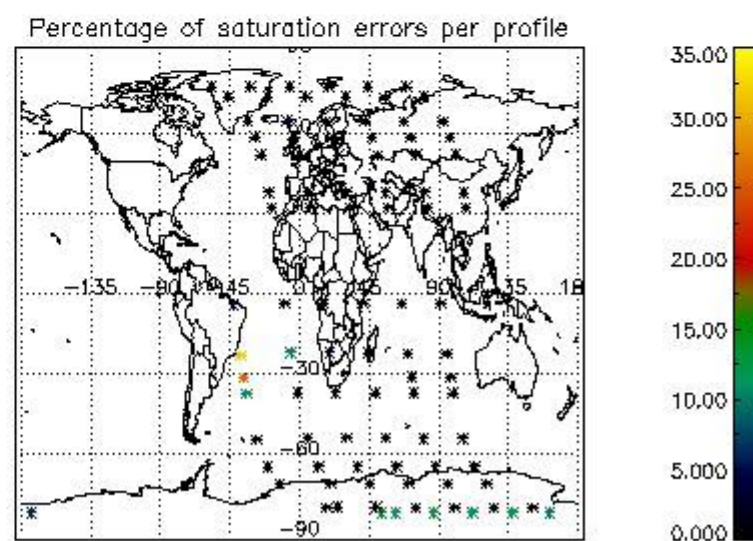
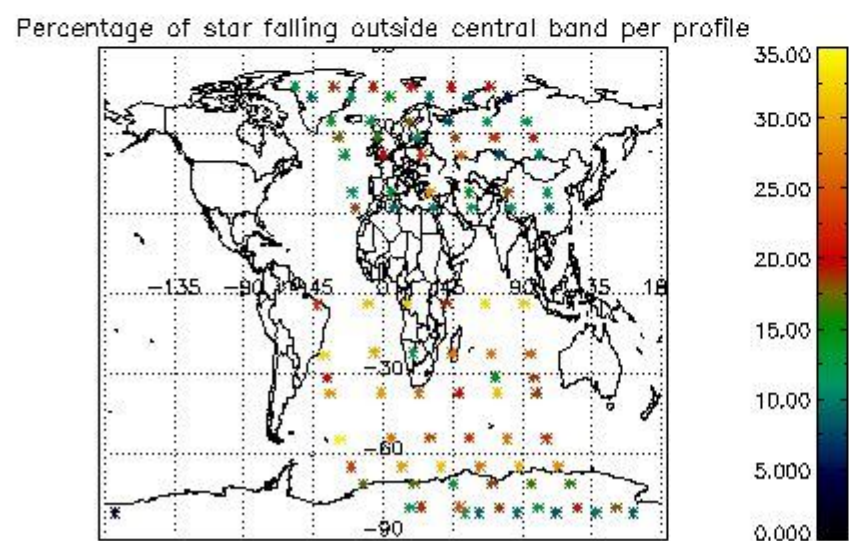
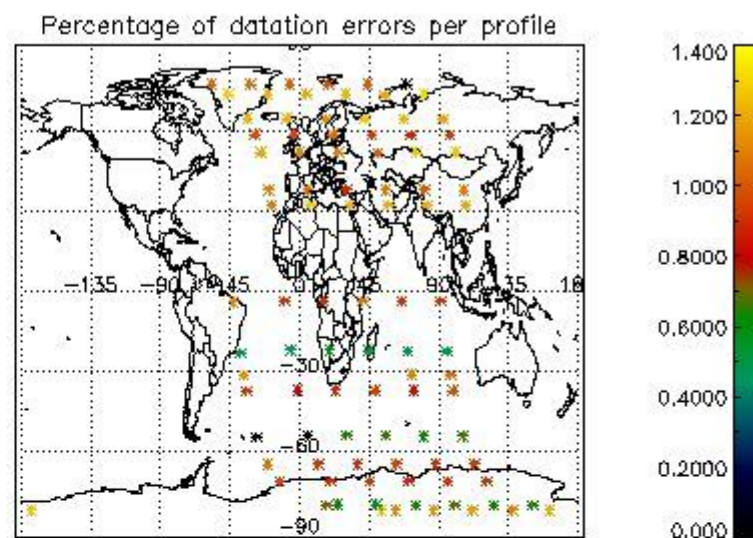
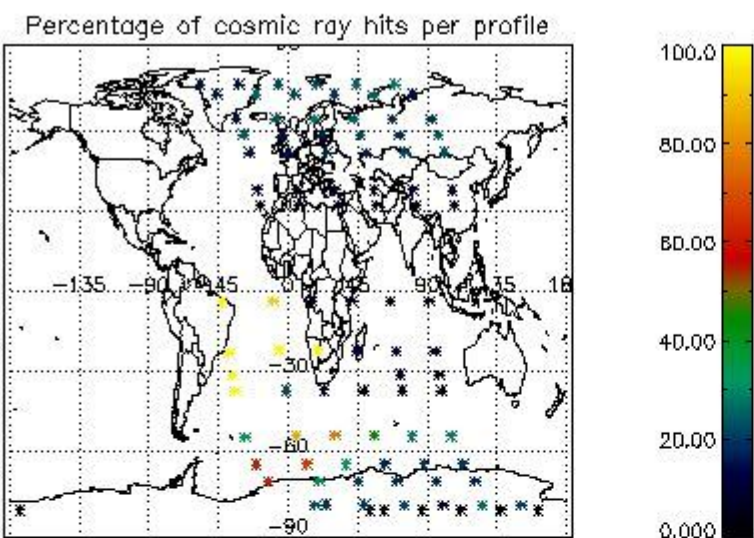


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



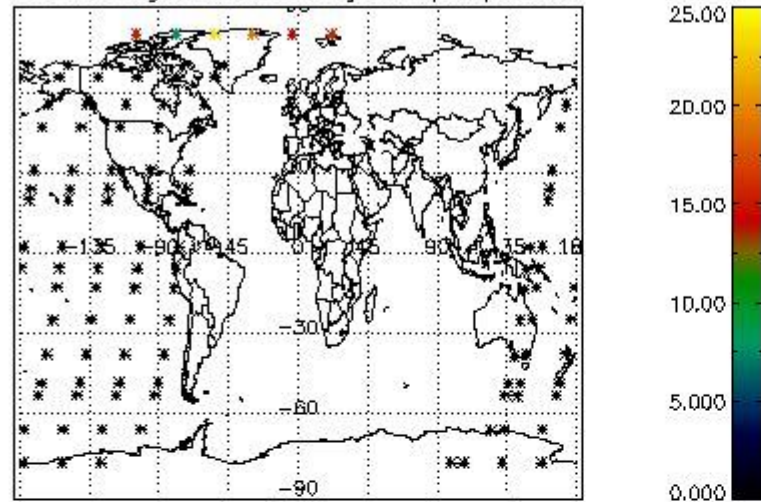
4.2 Plot quality information per product coming from level 1b processing (world map)

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

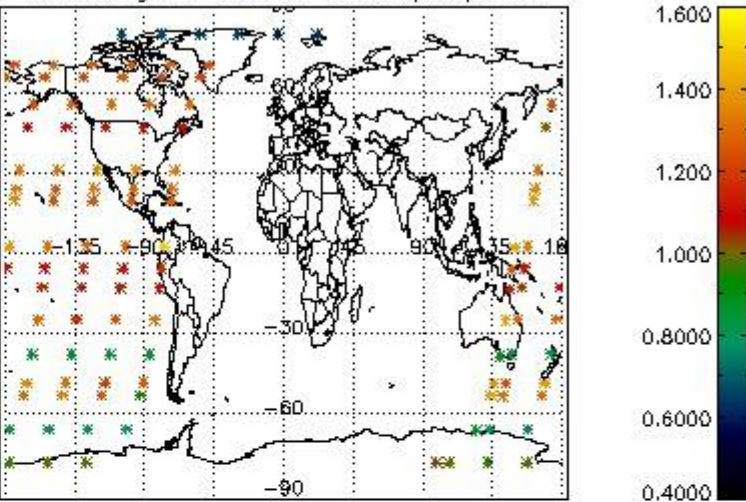


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

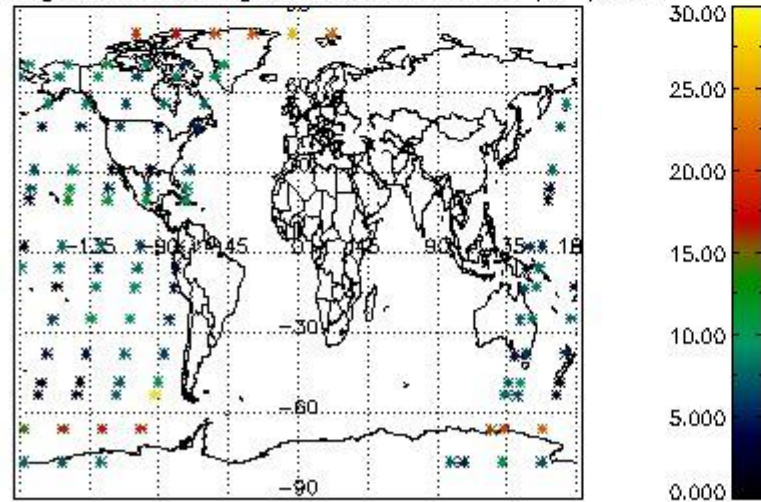
Percentage of cosmic ray hits per profile



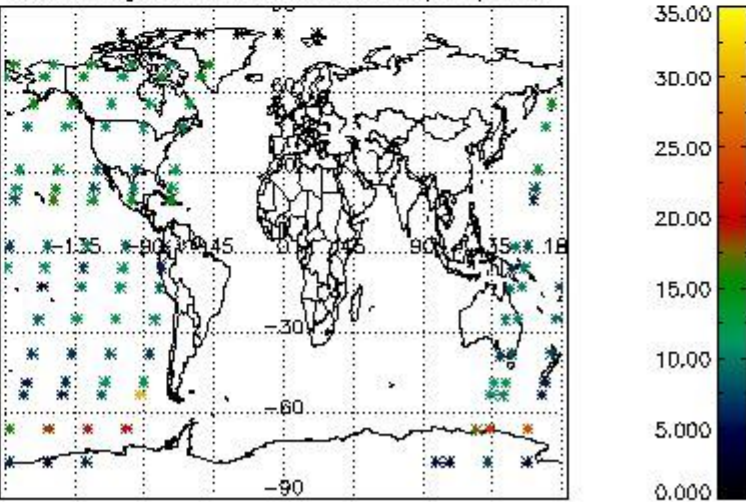
Percentage of datation errors per profile



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

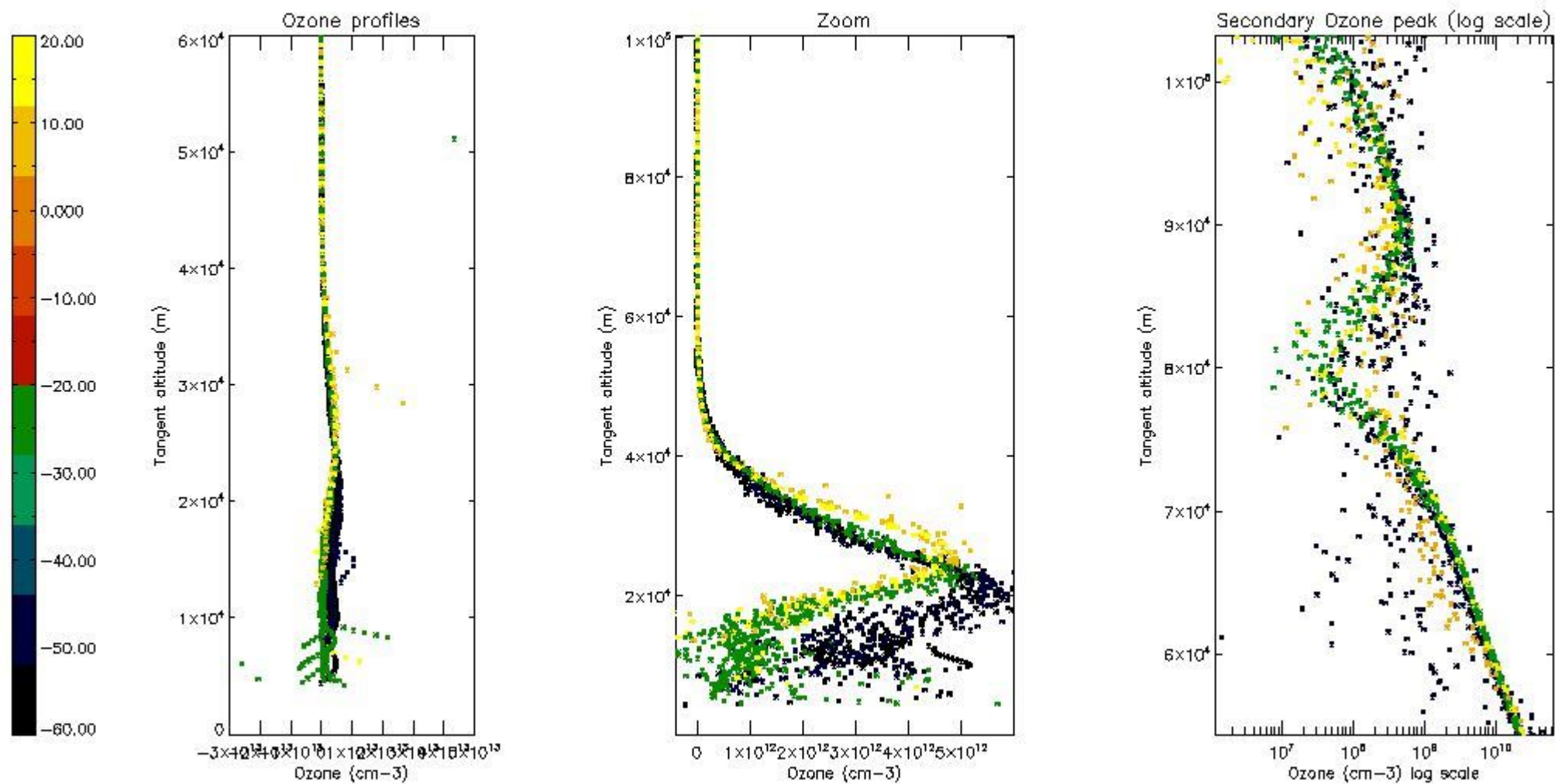
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	23
STD < 20	14

STD < 10	12
STD < 5	9

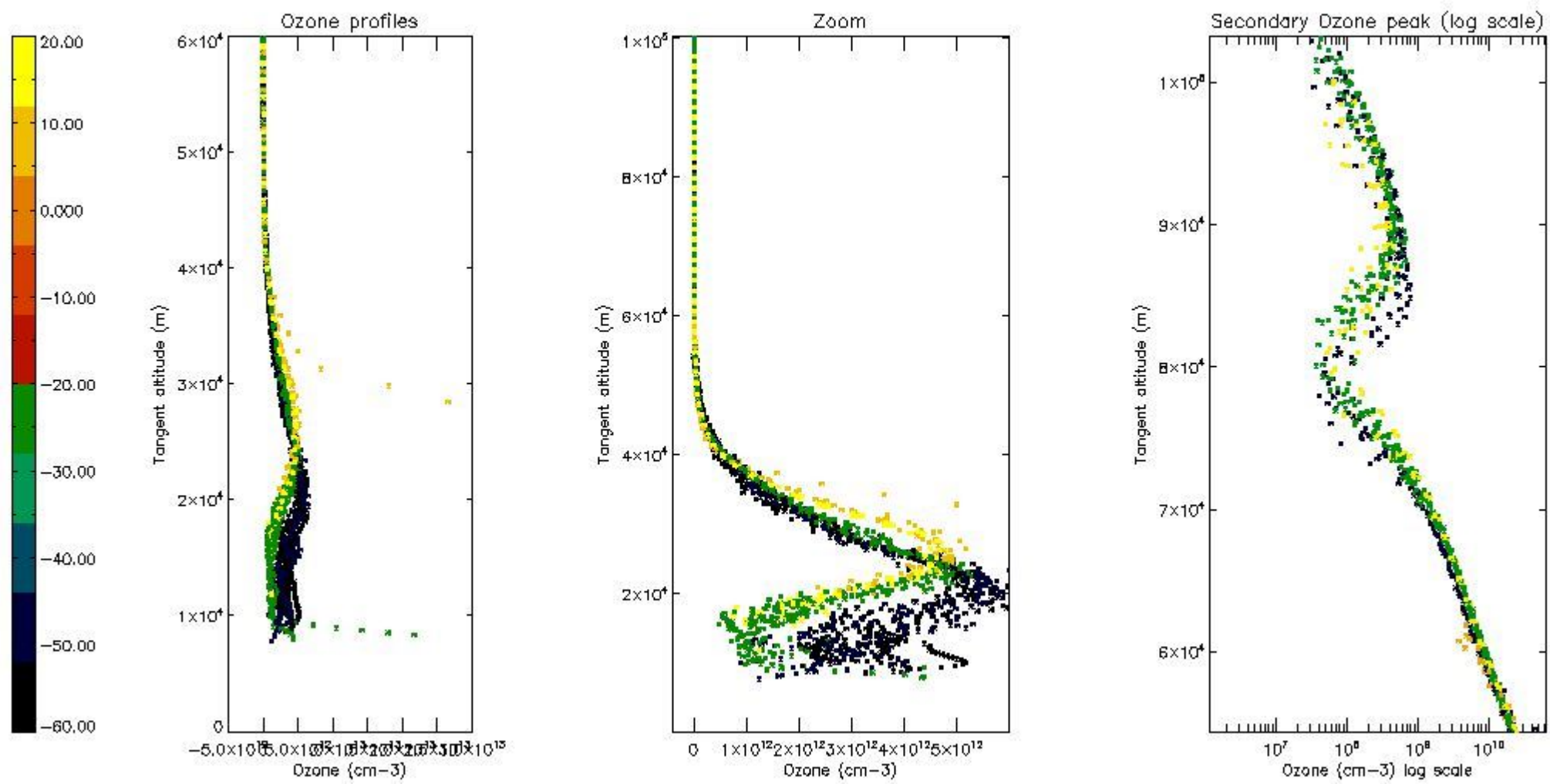
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



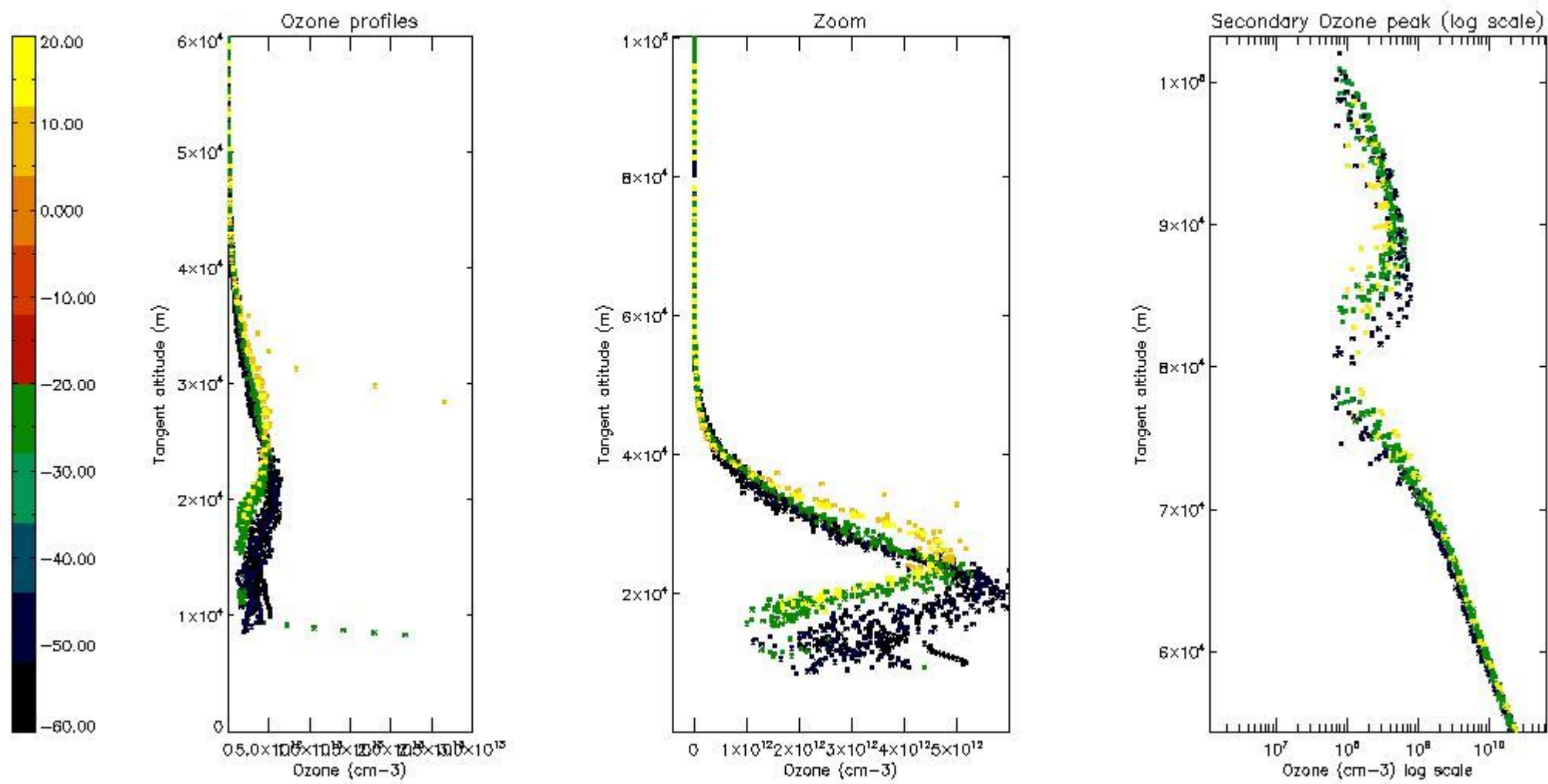
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



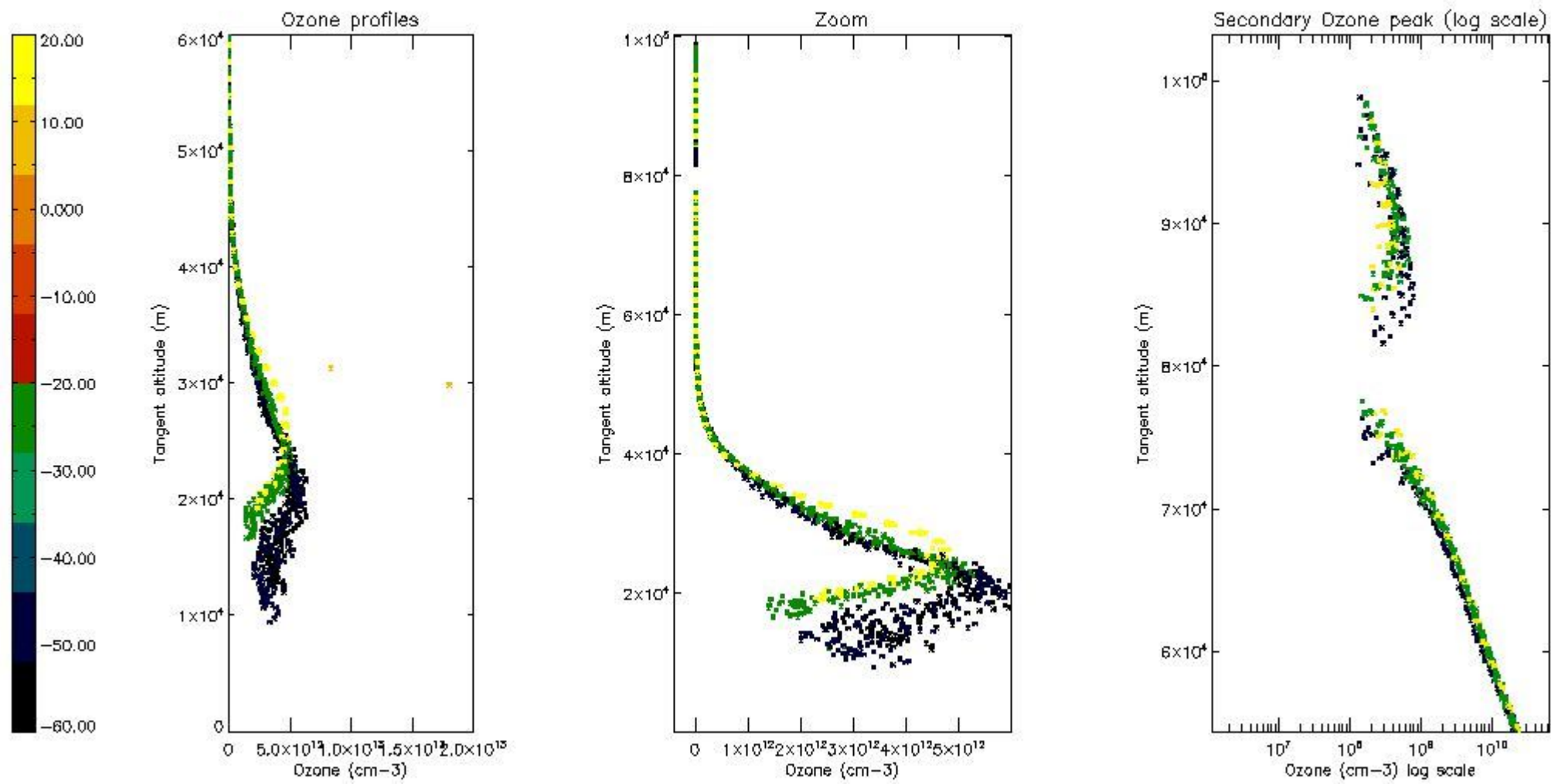
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



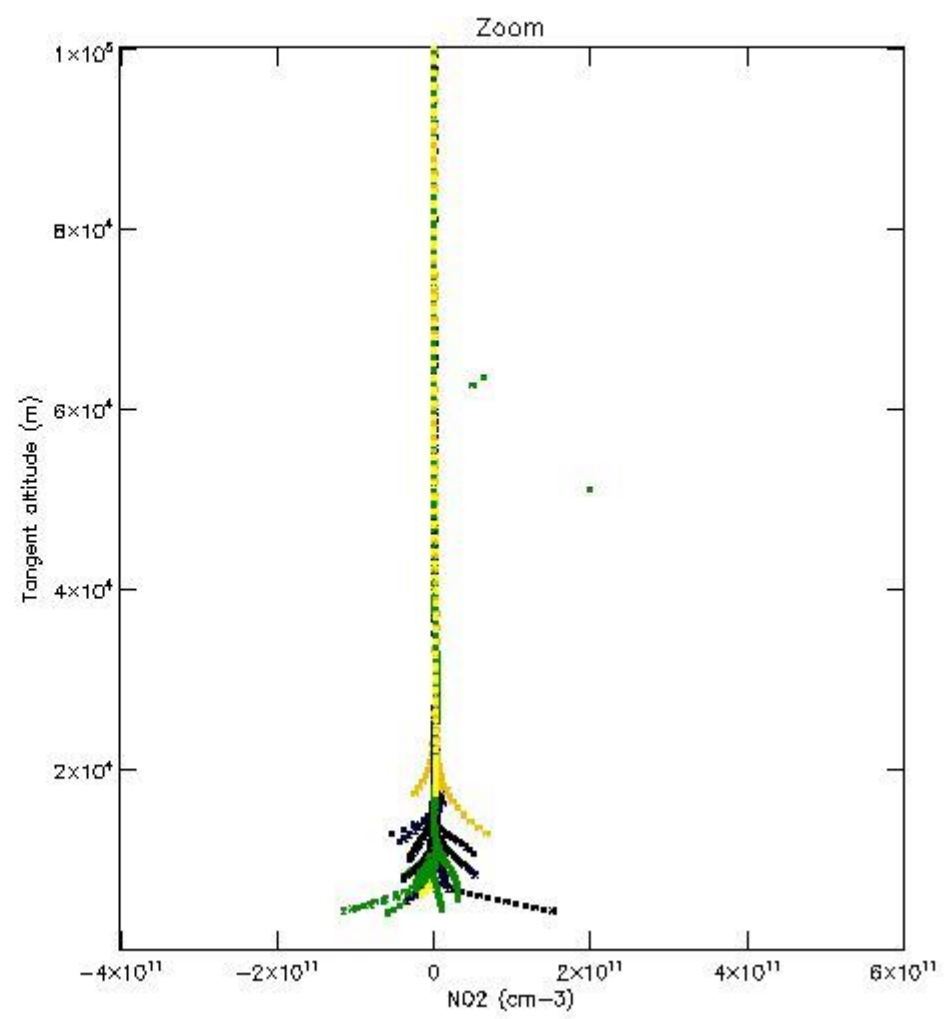
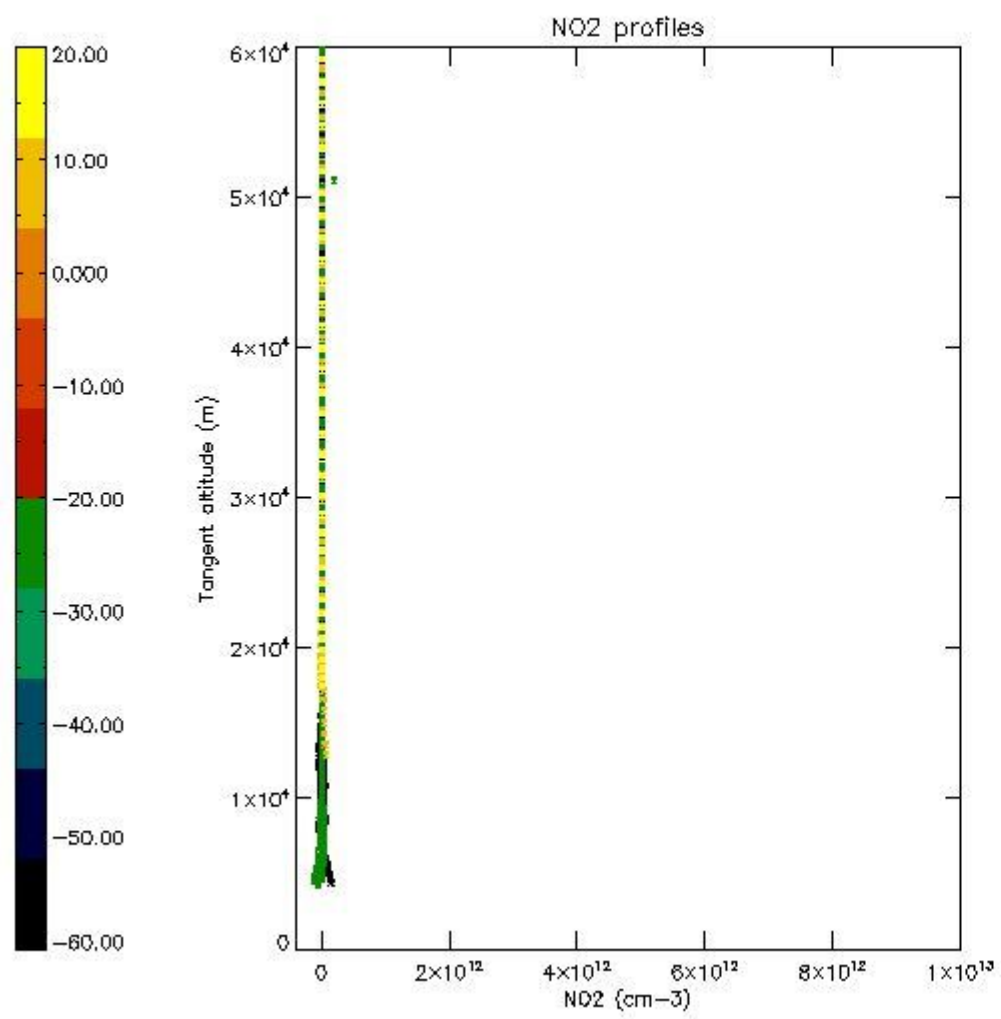
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



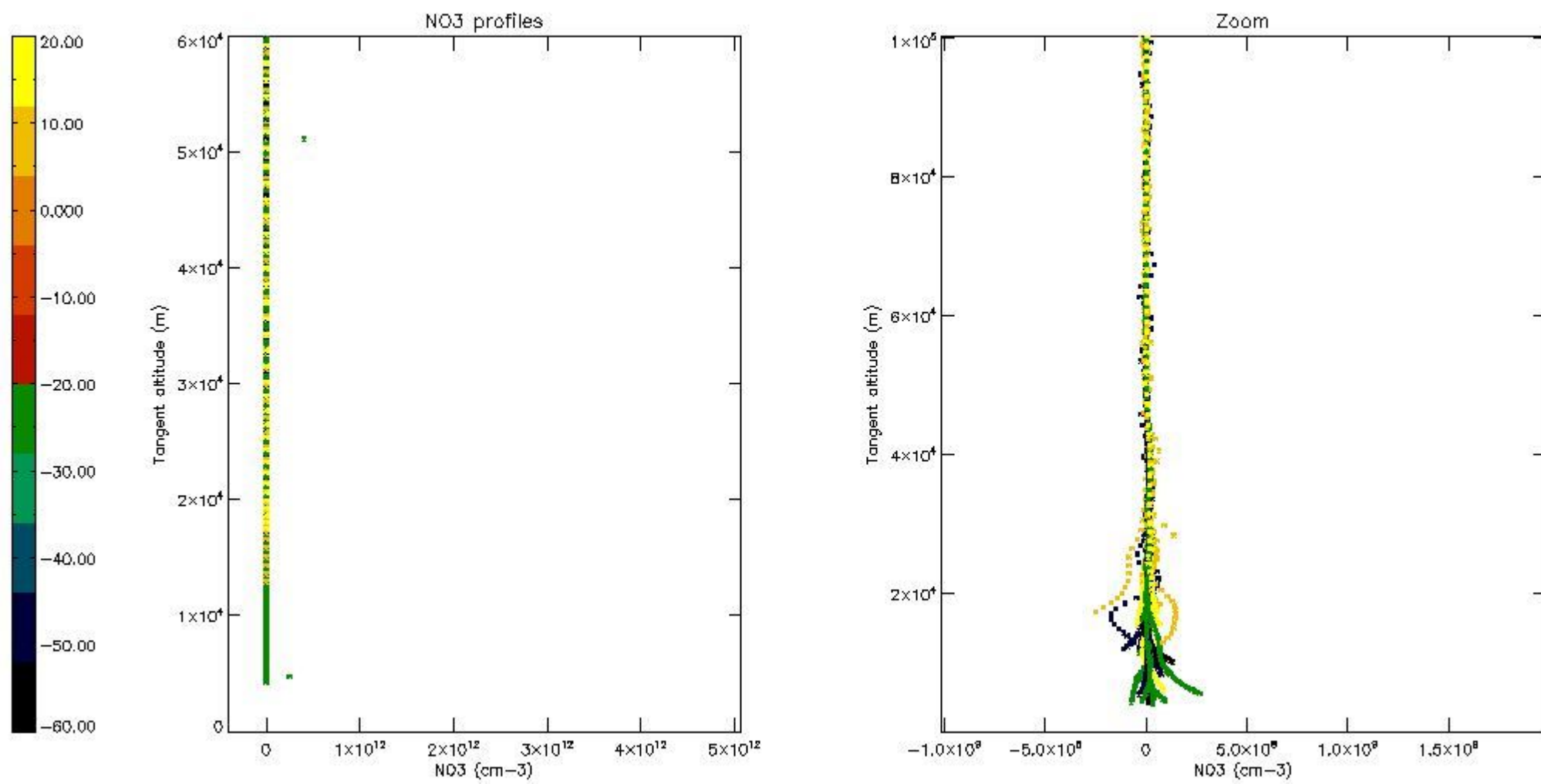
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



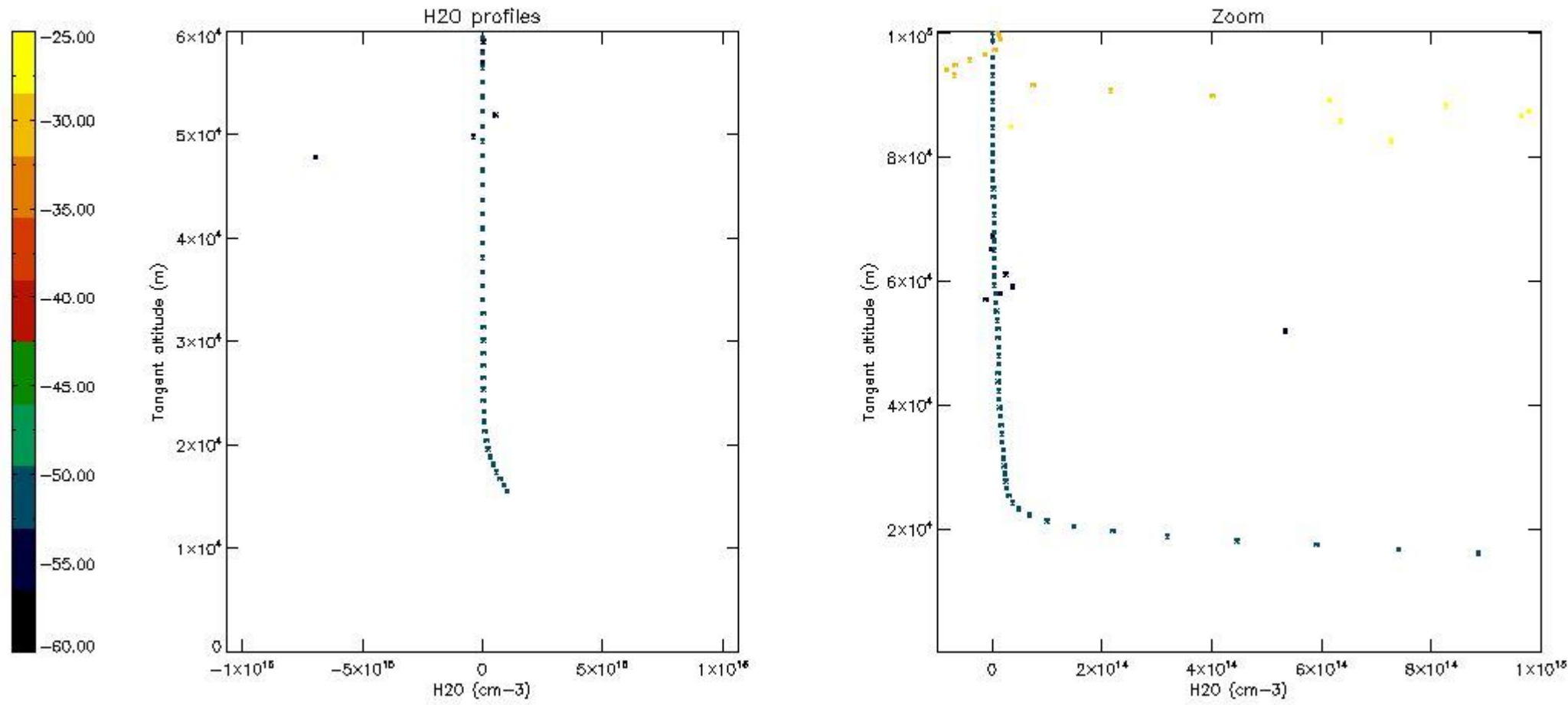
5.7 Plot NO3 profiles for all STD (dark without errors)

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	04-SEP-2004 00:03:58
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	04-SEP-2004 00:03:58
CROSS_SECTIONS_FILE	GOM_CR2_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	04-SEP-2004 00:03:58

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[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 10:13:11
Data source version	GOMOS/6.01
Start time of products	04-09-2004 (04SEP2004 00:00:00)
Stop time of products	05-09-2004 (05SEP2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	206
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__2PRFIN20040904_000358_000000362030_00059_13139_3509.N1	04-SEP-2004 00:03:58	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	13139	No
2	GOM_NL__2PRFIN20040904_000621_000000402030_00059_13139_3510.N1	04-SEP-2004 00:06:21	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	13139	No
3	GOM_NL__2PRFIN20040904_000825_000000452030_00059_13139_3511.N1	04-SEP-2004 00:08:25	Bright	44.500	76	27Gam Cas	2.3000	30000.	89	13139	No
4	GOM_NL__2PRFIN20040904_001140_000000362030_00059_13139_3512.N1	04-SEP-2004 00:11:40	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	13139	No
5	GOM_NL__2PRFIN20040904_001529_000000562030_00059_13139_3513.N1	04-SEP-2004 00:15:29	Bright	56.000	160	23Gam Per	2.9300	4700.0	112	13139	No
6	GOM_NL__2PRFIN20040904_001818_000000362030_00059_13139_3514.N1	04-SEP-2004 00:18:18	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	13139	No
7	GOM_NL__2PRFIN20040904_001941_000000362030_00059_13139_3515.N1	04-SEP-2004 00:19:41	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	13139	No
8	GOM_NL__2PRFIN20040904_002329_000000582030_00059_13139_3516.N1	04-SEP-2004 00:23:29	Bright	57.500	6	13Alp Aur	0.080000	3400.0	115	13139	No
9	GOM_NL__2PRFIN20040904_002725_000000492030_00059_13139_3517.N1	04-SEP-2004 00:27:25	Bright	48.500	107	37The Aur	2.6490	11000.	97	13139	No
10	GOM_NL__2PRFIN20040904_002949_000000402030_00059_13139_3518.N1	04-SEP-2004 00:29:49	Bright	40.000	17	78Bet Gem	1.1610	4500.0	80	13139	No
11	GOM_NL__2PRFIN20040904_003129_000000712030_00059_13139_3519.N1	04-SEP-2004 00:31:29	Twilight	70.500	28	12Bet Tau	1.6500	15200.	141	13139	No
12	GOM_NL__2PRFIN20040904_003438_000000532030_00059_13139_3520.N1	04-SEP-2004 00:34:38	Twilight	52.500	44	24Gam Gem	1.9280	11000.	105	13139	No
13	GOM_NL__2PRFIN20040904_003637_000000472030_00059_13139_3521.N1	04-SEP-2004 00:36:37	Twilight	47.000	8	10Alp CMi	0.40000	6500.0	94	13139	No
14	GOM_NL__2PRFIN20040904_003937_000000842030_00059_13139_3522.N1	04-SEP-2004 00:39:37	Dark	83.500	14	58Alp Ori	0.87000	3000.0	167	13139	No
15	GOM_NL__2PRFIN20040904_004431_000000552030_00059_13139_3523.N1	04-SEP-2004 00:44:31	Dark	54.500	1	9Alp CMa	-1.4400	11000.	109	13139	No
16	GOM_NL__2PRFIN20040904_004612_000000452030_00059_13139_3524.N1	04-SEP-2004 00:46:12	Dark	44.500	37	25Del CMa	1.8300	5900.0	89	13139	No
17	GOM_NL__2PRFIN20040904_004829_000001042030_00059_13139_3525.N1	04-SEP-2004 00:48:29	Dark	103.50	7	19Bet Ori	0.10000	14000.	207	13139	No
18	GOM_NL__2PRFIN20040904_005353_000000452030_00059_13139_3526.N1	04-SEP-2004 00:53:53	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	13139	No
19	GOM_NL__2PRFIN20040904_142847_000000432030_00068_13148_3543.N1	04-SEP-2004 14:28:47	Dark	42.500	135	Bet Hyi	2.8200	5800.0	85	13148	No
20	GOM_NL__2PRFIN20040904_143024_000000462030_00068_13148_3496.N1	04-SEP-2004 14:30:24	Dark	46.000	9	Alp Eri	0.45300	24000.	92	13148	No
21	GOM_NL__2PRFIN20040904_143424_000000402030_00068_13148_3497.N1	04-SEP-2004 14:34:24	Straylight	40.000	148	Alp Tuc	2.8780	4100.0	80	13148	No
22	GOM_NL__2PRFIN20040904_143619_000000542030_00068_13148_3498.N1	04-SEP-2004 14:36:19	Straylight	54.000	84	Alp Phe	2.3970	4500.0	108	13148	No
23	GOM_NL__2PRFIN20040904_143805_000000422030_00068_13148_3499.N1	04-SEP-2004 14:38:05	Straylight	42.000	31	Alp Gru	1.7340	15200.	84	13148	No
24	GOM_NL__2PRFIN20040904_144053_000000382030_00068_13148_3500.N1	04-SEP-2004 14:40:53	Straylight	38.000	172	Gam Gru	3.0030	13100.	76	13148	No
25	GOM_NL__2PRFIN20040904_144211_000000492030_00068_13148_3501.N1	04-SEP-2004 14:42:11	Straylight	48.500	18	24Alp PsA	1.1660	9700.0	97	13148	No
26	GOM_NL__2PRFIN20040904_144449_000000802030_00068_13148_3502.N1	04-SEP-2004 14:44:49	Twilight	79.500	52	16Bet Cet	2.0370	4500.0	159	13148	No
27	GOM_NL__2PRFIN20040904_145000_000000402030_00068_13148_3503.N1	04-SEP-2004 14:50:00	Bright	40.000	154	22Bet Aqr	2.8990	5700.0	80	13148	No
28	GOM_NL__2PRFIN20040904_145122_000000412030_00068_13148_3504.N1	04-SEP-2004 14:51:22	Bright	41.000	162	34Alp Aqr	2.9440	5350.0	82	13148	No
29	GOM_NL__2PRFIN20040904_145422_000000392030_00068_13148_3505.N1	04-SEP-2004 14:54:22	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	13148	No
30	GOM_NL__2PRFIN20040904_145650_000000472030_00068_13148_3506.N1	04-SEP-2004 14:56:50	Bright	47.000	90	54Alp Peg	2.4870	11000.	94	13148	No
31	GOM_NL__2PRFIN20040904_150120_000000382030_00068_13148_3507.N1	04-SEP-2004 15:01:20	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	13148	No
32	GOM_NL__2PRFIN20040904_150316_000000392030_00068_13148_3508.N1	04-SEP-2004 15:03:16	Bright	39.000	66	37Gam Cyg	2.2080	5900.0	78	13148	No
33	GOM_NL__2PRFIN20040904_150430_000000392030_00068_13148_3509.N1	04-SEP-2004 15:04:30	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	13148	No
34	GOM_NL__2PRFIN20040904_150919_000000342030_00068_13148_3510.N1	04-SEP-2004 15:09:19	Bright	33.500	89	5Alp Cep	2.4510	8000.0	67	13148	No
35	GOM_NL__2PRFIN20040904_151137_000000432030_00068_13148_3511.N1	04-SEP-2004 15:11:37	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	13148	No
36	GOM_NL__2PRFIN20040904_151341_000000462030_00068_13148_3512.N1	04-SEP-2004 15:13:41	Bright	45.500	76	27Gam Cas	2.3000	30000.	91	13148	No
37	GOM_NL__2PRFIN20040904_151701_000000382030_00068_13148_3513.N1	04-SEP-2004 15:17:01	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	13148	No
38	GOM_NL__2PRFIN20040904_152042_000000582030_00068_13148_3514.N1	04-SEP-2004 15:20:42	Bright	58.000	160	23Gam Per	2.9300	4700.0	116	13148	No
39	GOM_NL__2PRFIN20040904_152341_000000402030_00068_13148_3515.N1	04-SEP-2004 15:23:41	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	13148	No
40	GOM_NL__2PRFIN20040904_152502_000000532030_00068_13148_3516.N1	04-SEP-2004 15:25:02	Bright	53.000	82	48Bet UMa	2.3650	10600.	106	13148	No
41	GOM_NL__2PRFIN20040904_152848_000000632030_00068_13148_3517.N1	04-SEP-2004 15:28:48	Bright	63.000	6	13Alp Aur	0.080000	3400.0	126	13148	No
42	GOM_NL__2PRFIN20040904_153247_000000512030_00068_13148_3518.N1	04-SEP-2004 15:32:47	Bright	51.000	107	37The Aur	2.6490	11000.	102	13148	No

43	GOM_NL__2PRFIN20040904_153511_000000402030_00068_13148_3519.N1	04-SEP-2004 15:35:11	Bright	40.000	17	78Bet Gem	1.1610	4500.0	80	13148	No
44	GOM_NL__2PRFIN20040904_153654_000000792030_00068_13148_3520.N1	04-SEP-2004 15:36:54	Twilight	78.500	28	12Bet Tau	1.6500	15200.	157	13148	No
45	GOM_NL__2PRFIN20040904_154004_000000552030_00068_13148_3521.N1	04-SEP-2004 15:40:04	Twilight	55.000	44	24Gam Gem	1.9280	11000.	110	13148	No
46	GOM_NL__2PRFIN20040904_154201_000000542030_00068_13148_3522.N1	04-SEP-2004 15:42:01	Twilight	53.500	8	10Alp CMi	0.40000	6500.0	107	13148	No
47	GOM_NL__2PRFIN20040904_154507_000000752030_00068_13148_3523.N1	04-SEP-2004 15:45:07	Dark	75.000	14	58Alp Ori	0.87000	3000.0	150	13148	No
48	GOM_NL__2PRFIN20040904_154959_000000522030_00068_13148_3524.N1	04-SEP-2004 15:49:59	Dark	51.500	1	9Alp CMa	-1.4400	11000.	103	13148	No
49	GOM_NL__2PRFIN20040904_155138_000000482030_00068_13148_3525.N1	04-SEP-2004 15:51:38	Dark	48.000	37	25Del CMa	1.8300	5900.0	96	13148	No
50	GOM_NL__2PRFIN20040904_155408_000000972030_00068_13148_3526.N1	04-SEP-2004 15:54:08	Dark	97.000	7	19Bet Ori	0.10000	14000.	194	13148	No
51	GOM_NL__2PRFIN20040904_155919_000000552030_00068_13148_3527.N1	04-SEP-2004 15:59:19	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	13148	No
52	GOM_NL__2PRFIN20040904_160925_000000412030_00069_13149_3495.N1	04-SEP-2004 16:09:25	Dark	41.000	135	Bet Hyi	2.8200	5800.0	82	13149	No
53	GOM_NL__2PRFIN20040904_161101_000000502030_00069_13149_3496.N1	04-SEP-2004 16:11:01	Dark	49.500	9	Alp Eri	0.45300	24000.	99	13149	No
54	GOM_NL__2PRFIN20040904_161500_000000392030_00069_13149_3497.N1	04-SEP-2004 16:15:00	Straylight	39.000	148	Alp Tuc	2.8780	4100.0	78	13149	No
55	GOM_NL__2PRFIN20040904_161656_000000572030_00069_13149_3498.N1	04-SEP-2004 16:16:56	Straylight	57.000	84	Alp Phe	2.3970	4500.0	114	13149	No
56	GOM_NL__2PRFIN20040904_161841_000000412030_00069_13149_3499.N1	04-SEP-2004 16:18:41	Straylight	41.000	31	Alp Gru	1.7340	15200.	82	13149	No
57	GOM_NL__2PRFIN20040904_162127_000000422030_00069_13149_3500.N1	04-SEP-2004 16:21:27	Straylight	42.000	172	Gam Gru	3.0030	13100.	84	13149	No
58	GOM_NL__2PRFIN20040904_162247_000000502030_00069_13149_3501.N1	04-SEP-2004 16:22:47	Straylight	50.000	18	24Alp PsA	1.1660	9700.0	100	13149	No
59	GOM_NL__2PRFIN20040904_162525_000000842030_00069_13149_3502.N1	04-SEP-2004 16:25:25	Twilight	84.000	52	16Bet Cet	2.0370	4500.0	168	13149	No
60	GOM_NL__2PRFIN20040904_163035_000000392030_00069_13149_3503.N1	04-SEP-2004 16:30:35	Bright	39.000	154	22Bet Aqr	2.8990	5700.0	78	13149	No
61	GOM_NL__2PRFIN20040904_163158_000000412030_00069_13149_3504.N1	04-SEP-2004 16:31:58	Bright	41.000	162	34Alp Aqr	2.9440	5350.0	82	13149	No
62	GOM_NL__2PRFIN20040904_163457_000000392030_00069_13149_3505.N1	04-SEP-2004 16:34:57	Bright	39.000	61	8Eps Peg	2.1000	3900.0	78	13149	No
63	GOM_NL__2PRFIN20040904_163726_000000472030_00069_13149_3506.N1	04-SEP-2004 16:37:26	Bright	46.500	90	54Alp Peg	2.4870	11000.	93	13149	No
64	GOM_NL__2PRFIN20040904_164155_000000372030_00069_13149_3507.N1	04-SEP-2004 16:41:55	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	13149	No
65	GOM_NL__2PRFIN20040904_164352_000000392030_00069_13149_3508.N1	04-SEP-2004 16:43:52	Bright	39.000	66	37Gam Cyg	2.2080	5900.0	78	13149	No
66	GOM_NL__2PRFIN20040904_164505_000000402030_00069_13149_3509.N1	04-SEP-2004 16:45:05	Bright	40.000	19	50Alp Cyg	1.2460	10500.	80	13149	No
67	GOM_NL__2PRFIN20040904_164954_000000392030_00069_13149_3510.N1	04-SEP-2004 16:49:54	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	13149	No
68	GOM_NL__2PRFIN20040904_165213_000000452030_00069_13149_3511.N1	04-SEP-2004 16:52:13	Bright	45.000	74	11Bet Cas	2.2680	6600.0	90	13149	No
69	GOM_NL__2PRFIN20040904_165416_000000482030_00069_13149_3512.N1	04-SEP-2004 16:54:16	Bright	47.500	76	27Gam Cas	2.3000	30000.	95	13149	No
70	GOM_NL__2PRFIN20040904_165736_000000412030_00069_13149_3513.N1	04-SEP-2004 16:57:36	Bright	40.500	49	1Alp UMi	1.9900	6300.0	81	13149	No
71	GOM_NL__2PRFIN20040904_170117_000000592030_00069_13149_3514.N1	04-SEP-2004 17:01:17	Bright	59.000	160	23Gam Per	2.9300	4700.0	118	13149	No
72	GOM_NL__2PRFIN20040904_170415_000000422030_00069_13149_3515.N1	04-SEP-2004 17:04:15	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	13149	No
73	GOM_NL__2PRFIN20040904_170538_000000402030_00069_13149_3516.N1	04-SEP-2004 17:05:38	Bright	40.000	82	48Bet UMa	2.3650	10600.	80	13149	No
74	GOM_NL__2PRFIN20040904_170924_000000632030_00069_13149_3517.N1	04-SEP-2004 17:09:24	Bright	63.000	6	13Alp Aur	0.080000	3400.0	126	13149	No
75	GOM_NL__2PRFIN20040904_171323_000000502030_00069_13149_3518.N1	04-SEP-2004 17:13:23	Bright	50.000	107	37The Aur	2.6490	11000.	100	13149	No
76	GOM_NL__2PRFIN20040904_171547_000000422030_00069_13149_3519.N1	04-SEP-2004 17:15:47	Bright	41.500	17	78Bet Gem	1.1610	4500.0	83	13149	No
77	GOM_NL__2PRFIN20040904_171730_000000812030_00069_13149_3520.N1	04-SEP-2004 17:17:30	Twilight	80.500	28	12Bet Tau	1.6500	15200.	161	13149	No
78	GOM_NL__2PRFIN20040904_172040_000000562030_00069_13149_3521.N1	04-SEP-2004 17:20:40	Twilight	55.500	44	24Gam Gem	1.9280	11000.	111	13149	No
79	GOM_NL__2PRFIN20040904_172237_000000562030_00069_13149_3522.N1	04-SEP-2004 17:22:37	Twilight	56.000	8	10Alp CMi	0.40000	6500.0	112	13149	No
80	GOM_NL__2PRFIN20040904_172544_000000802030_00069_13149_3523.N1	04-SEP-2004 17:25:44	Dark	80.000	14	58Alp Ori	0.87000	3000.0	160	13149	No
81	GOM_NL__2PRFIN20040904_173035_000000612030_00069_13149_3524.N1	04-SEP-2004 17:30:35	Dark	61.000	1	9Alp CMa	-1.4400	11000.	122	13149	No
82	GOM_NL__2PRFIN20040904_173214_000000462030_00069_13149_3525.N1	04-SEP-2004 17:32:14	Dark	45.500	37	25Del CMa	1.8300	5900.0	91	13149	No
83	GOM_NL__2PRFIN20040904_173446_000001002030_00069_13149_3526.N1	04-SEP-2004 17:34:46	Dark	99.500	7	19Bet Ori	0.10000	14000.	199	13149	No
84	GOM_NL__2PRFIN20040904_173955_000000552030_00069_13149_3527.N1	04-SEP-2004 17:39:55	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	13149	No
85	GOM_NL__2PRFIN20040904_175001_000000422030_00070_13150_3495.N1	04-SEP-2004 17:50:01	Dark	41.500	135	Bet Hyi	2.8200	5800.0	83	13150	No
86	GOM_NL__2PRFIN20040904_175137_000000472030_00070_13150_3496.N1	04-SEP-2004 17:51:37	Dark	47.000	9	Alp Eri	0.45300	24000.	94	13150	No
87	GOM_NL__2PRFIN20040904_175536_000000492030_00070_13150_3497.N1	04-SEP-2004 17:55:36	Straylight	49.000	148	Alp Tuc	2.8780	4100.0	98	13150	No
88	GOM_NL__2PRFIN20040904_175732_000000542030_00070_13150_3498.N1	04-SEP-2004 17:57:32	Straylight	53.500	84	Alp Phe	2.3970	4500.0	107	13150	No
89	GOM_NL__2PRFIN20040904_175917_000000392030_00070_13150_3499.N1	04-SEP-2004 17:59:17	Straylight	39.000	31	Alp Gru	1.7340	15200.	78	13150	No
90	GOM_NL__2PRFIN20040904_180205_000000412030_00070_13150_3500.N1	04-SEP-2004 18:02:05	Straylight	41.000	172	Gam Gru	3.0030	13100.	82	13150	No
91	GOM_NL__2PRFIN20040904_180323_000000512030_00070_13150_3501.N1	04-SEP-2004 18:03:23	Straylight	50.500	18	24Alp PsA	1.1660	9700.0	101	13150	No
92	GOM_NL__2PRFIN20040904_180602_000000782030_00070_13150_3502.N1	04-SEP-2004 18:06:02	Twilight	78.000	52	16Bet Cet	2.0370	4500.0	156	13150	No
93	GOM_NL__2PRFIN20040904_181112_000000402030_00070_13150_3503.N1	04-SEP-2004 18:11:12	Bright	40.000	154	22Bet Aqr	2.8990	5700.0	80	13150	No
94	GOM_NL__2PRFIN20040904_181235_000000402030_00070_13150_3504.N1	04-SEP-2004 18:12:35	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	13150	No
95	GOM_NL__2PRFIN20040904_181534_000000392030_00070_13150_3505.N1	04-SEP-2004 18:15:34	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	13150	No
96	GOM_NL__2PRFIN20040904_181801_000000472030_00070_13150_3506.N1	04-SEP-2004 18:18:01	Bright	47.000	90	54Alp Peg	2.4870	11000.	94	13150	No
97	GOM_NL__2PRFIN20040904_182231_000000372030_00070_13150_3507.N1	04-SEP-2004 18:22:31	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	13150	No
98	GOM_NL__2PRFIN20040904_182428_000000382030_00070_13150_3508.N1	04-SEP-2004 18:24:28	Bright	38.000	66	37Gam Cyg	2.2080	5900.0	76	13150	No
99	GOM_NL__2PRFIN20040904_182541_000000402030_00070_13150_3509.N1	04-SEP-2004 18:25:41	Bright	40.000	19	50Alp Cyg	1.2460	10500.	80	13150	No
100	GOM_NL__2PRFIN20040904_183030_000000392030_00070_13150_3510.N1	04-SEP-2004 18:30:30	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	13150	No
101	GOM_NL__2PRFIN20040904_183247_000000442030_00070_13150_3511.N1	04-SEP-2004 18:32:47	Bright	44.000	74	11Bet Cas	2.2680	6600.0	88	13150	No

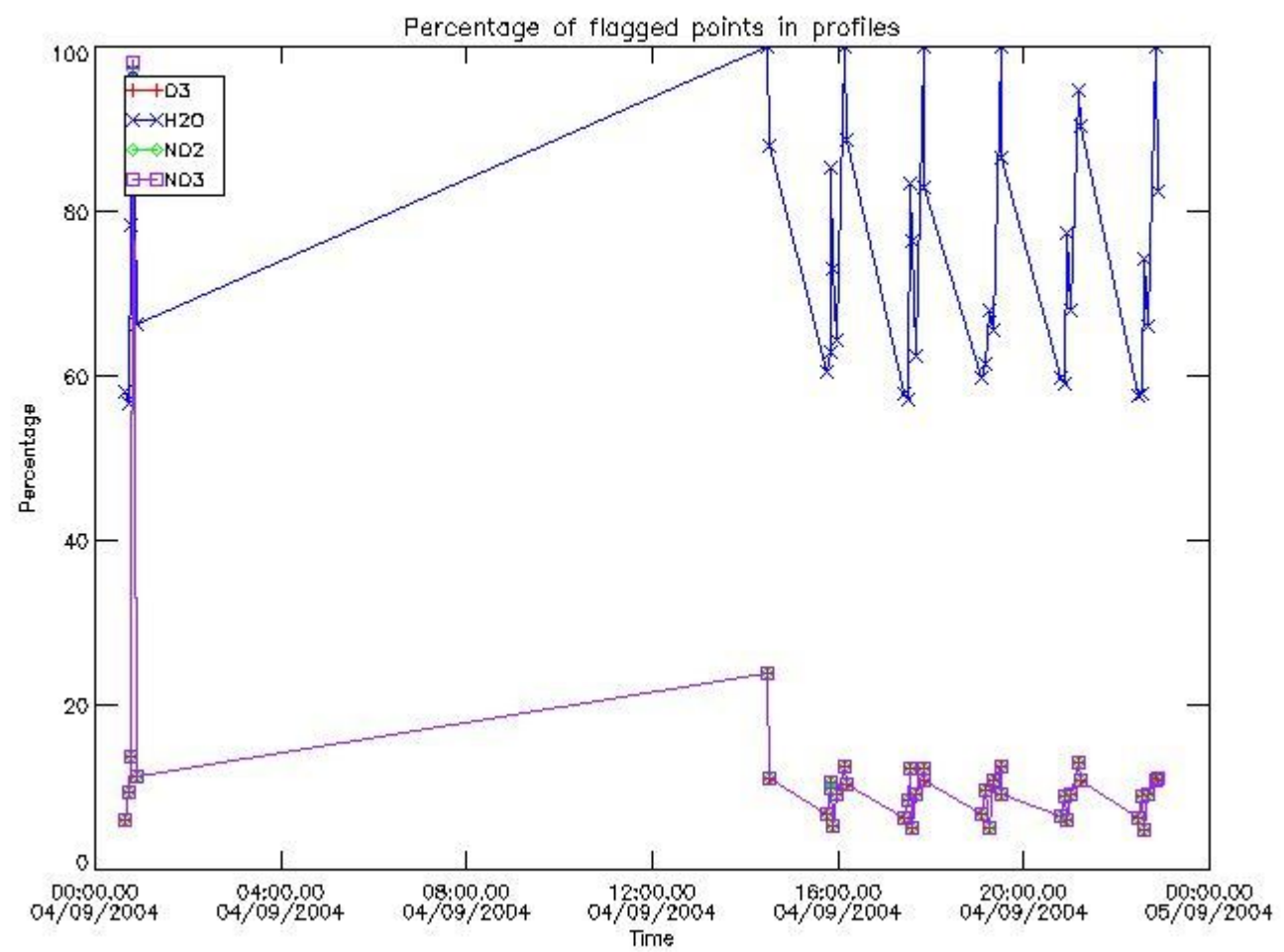
102	GOM_NL__2PRFIN20040904_183451_000000482030_00070_13150_3512.N1	04-SEP-2004 18:34:51	Bright	47.500	76	27Gam Cas	2.3000	30000.	95	13150	No
103	GOM_NL__2PRFIN20040904_183810_000000432030_00070_13150_3513.N1	04-SEP-2004 18:38:10	Bright	42.500	49	1Alp UMi	1.9900	6300.0	85	13150	No
104	GOM_NL__2PRFIN20040904_184152_000000582030_00070_13150_3514.N1	04-SEP-2004 18:41:52	Bright	57.500	160	23Gam Per	2.9300	4700.0	115	13150	No
105	GOM_NL__2PRFIN20040904_184451_000000392030_00070_13150_3515.N1	04-SEP-2004 18:44:51	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	13150	No
106	GOM_NL__2PRFIN20040904_184616_000000382030_00070_13150_3516.N1	04-SEP-2004 18:46:16	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	13150	No
107	GOM_NL__2PRFIN20040904_185000_000000622030_00070_13150_3517.N1	04-SEP-2004 18:50:00	Bright	61.500	6	13Alp Aur	0.080000	3400.0	123	13150	No
108	GOM_NL__2PRFIN20040904_185359_000000522030_00070_13150_3518.N1	04-SEP-2004 18:53:59	Bright	51.500	107	37The Aur	2.6490	11000.	103	13150	No
109	GOM_NL__2PRFIN20040904_185621_000000462030_00070_13150_3519.N1	04-SEP-2004 18:56:21	Bright	45.500	17	78Bet Gem	1.1610	4500.0	91	13150	No
110	GOM_NL__2PRFIN20040904_185807_000000752030_00070_13150_3520.N1	04-SEP-2004 18:58:07	Twi_and_stray	74.500	28	12Bet Tau	1.6500	15200.	149	13150	No
111	GOM_NL__2PRFIN20040904_190116_000000572030_00070_13150_3521.N1	04-SEP-2004 19:01:16	Twi_and_stray	57.000	44	24Gam Gem	1.9280	11000.	114	13150	No
112	GOM_NL__2PRFIN20040904_190314_000000532030_00070_13150_3522.N1	04-SEP-2004 19:03:14	Twilight	52.500	8	10Alp CMi	0.40000	6500.0	105	13150	No
113	GOM_NL__2PRFIN20040904_190621_000000762030_00070_13150_3523.N1	04-SEP-2004 19:06:21	Dark	76.000	14	58Alp Ori	0.87000	3000.0	152	13150	No
114	GOM_NL__2PRFIN20040904_191112_000000542030_00070_13150_3524.N1	04-SEP-2004 19:11:12	Dark	53.500	1	9Alp CMa	-1.4400	11000.	107	13150	No
115	GOM_NL__2PRFIN20040904_191524_000001002030_00070_13150_3525.N1	04-SEP-2004 19:15:24	Dark	100.00	7	19Bet Ori	0.10000	14000.	200	13150	No
116	GOM_NL__2PRFIN20040904_192031_000000472030_00070_13150_3526.N1	04-SEP-2004 19:20:31	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	13150	No
117	GOM_NL__2PRFIN20040904_193037_000000412030_00071_13151_3495.N1	04-SEP-2004 19:30:37	Dark	40.500	135	Bet Hyi	2.8200	5800.0	81	13151	No
118	GOM_NL__2PRFIN20040904_193214_000000562030_00071_13151_3496.N1	04-SEP-2004 19:32:14	Dark	56.000	9	Alp Eri	0.45300	24000.	112	13151	No
119	GOM_NL__2PRFIN20040904_193613_000000462030_00071_13151_3497.N1	04-SEP-2004 19:36:13	Straylight	46.000	148	Alp Tuc	2.8780	4100.0	92	13151	No
120	GOM_NL__2PRFIN20040904_193809_000000482030_00071_13151_3498.N1	04-SEP-2004 19:38:09	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	13151	No
121	GOM_NL__2PRFIN20040904_193953_000000452030_00071_13151_3499.N1	04-SEP-2004 19:39:53	Straylight	44.500	31	Alp Gru	1.7340	15200.	89	13151	No
122	GOM_NL__2PRFIN20040904_194242_000000422030_00071_13151_3500.N1	04-SEP-2004 19:42:42	Straylight	41.500	172	Gam Gru	3.0030	13100.	83	13151	No
123	GOM_NL__2PRFIN20040904_194400_000000492030_00071_13151_3501.N1	04-SEP-2004 19:44:00	Straylight	49.000	18	24Alp PsA	1.1660	9700.0	98	13151	No
124	GOM_NL__2PRFIN20040904_194636_000000782030_00071_13151_3502.N1	04-SEP-2004 19:46:36	Twi_and_stray	78.000	52	16Bet Cet	2.0370	4500.0	156	13151	No
125	GOM_NL__2PRFIN20040904_195149_000000402030_00071_13151_3503.N1	04-SEP-2004 19:51:49	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	13151	No
126	GOM_NL__2PRFIN20040904_195310_000000412030_00071_13151_3504.N1	04-SEP-2004 19:53:10	Bright	41.000	162	34Alp Aqr	2.9440	5350.0	82	13151	No
127	GOM_NL__2PRFIN20040904_195610_000000392030_00071_13151_3505.N1	04-SEP-2004 19:56:10	Bright	39.000	61	8Eps Peg	2.1000	3900.0	78	13151	No
128	GOM_NL__2PRFIN20040904_195837_000000472030_00071_13151_3506.N1	04-SEP-2004 19:58:37	Bright	47.000	90	54Alp Peg	2.4870	11000.	94	13151	No
129	GOM_NL__2PRFIN20040904_200308_000000392030_00071_13151_3507.N1	04-SEP-2004 20:03:08	Bright	38.500	92	53Eps Cyg	2.5000	4500.0	77	13151	No
130	GOM_NL__2PRFIN20040904_200504_000000402030_00071_13151_3508.N1	04-SEP-2004 20:05:04	Bright	40.000	66	37Gam Cyg	2.2080	5900.0	80	13151	No
131	GOM_NL__2PRFIN20040904_200618_000000402030_00071_13151_3509.N1	04-SEP-2004 20:06:18	Bright	40.000	19	50Alp Cyg	1.2460	10500.	80	13151	No
132	GOM_NL__2PRFIN20040904_201107_000000382030_00071_13151_3510.N1	04-SEP-2004 20:11:07	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	13151	No
133	GOM_NL__2PRFIN20040904_201323_000000462030_00071_13151_3511.N1	04-SEP-2004 20:13:23	Bright	45.500	74	11Bet Cas	2.2680	6600.0	91	13151	No
134	GOM_NL__2PRFIN20040904_201526_000000442030_00071_13151_3512.N1	04-SEP-2004 20:15:26	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	13151	No
135	GOM_NL__2PRFIN20040904_201849_000000392030_00071_13151_3513.N1	04-SEP-2004 20:18:49	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	13151	No
136	GOM_NL__2PRFIN20040904_202227_000000582030_00071_13151_3514.N1	04-SEP-2004 20:22:27	Bright	58.000	160	23Gam Per	2.9300	4700.0	116	13151	No
137	GOM_NL__2PRFIN20040904_202529_000000372030_00071_13151_3515.N1	04-SEP-2004 20:25:29	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	13151	No
138	GOM_NL__2PRFIN20040904_202650_000000392030_00071_13151_3516.N1	04-SEP-2004 20:26:50	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	13151	No
139	GOM_NL__2PRFIN20040904_203035_000000602030_00071_13151_3517.N1	04-SEP-2004 20:30:35	Bright	60.000	6	13Alp Aur	0.080000	3400.0	120	13151	No
140	GOM_NL__2PRFIN20040904_203435_000000512030_00071_13151_3518.N1	04-SEP-2004 20:34:35	Bright	51.000	107	37The Aur	2.6490	11000.	102	13151	No
141	GOM_NL__2PRFIN20040904_203659_000000432030_00071_13151_3519.N1	04-SEP-2004 20:36:59	Bright	43.000	17	78Bet Gem	1.1610	4500.0	86	13151	No
142	GOM_NL__2PRFIN20040904_203843_000000802030_00071_13151_3520.N1	04-SEP-2004 20:38:43	Twi_and_stray	79.500	28	12Bet Tau	1.6500	15200.	159	13151	No
143	GOM_NL__2PRFIN20040904_204152_000000552030_00071_13151_3521.N1	04-SEP-2004 20:41:52	Twi_and_stray	54.500	44	24Gam Gem	1.9280	11000.	109	13151	No
144	GOM_NL__2PRFIN20040904_204350_000000562030_00071_13151_3522.N1	04-SEP-2004 20:43:50	Twilight	56.000	8	10Alp CMi	0.40000	6500.0	112	13151	No
145	GOM_NL__2PRFIN20040904_204658_000000782030_00071_13151_3523.N1	04-SEP-2004 20:46:58	Dark	77.500	14	58Alp Ori	0.87000	3000.0	155	13151	No
146	GOM_NL__2PRFIN20040904_205149_000000572030_00071_13151_3524.N1	04-SEP-2004 20:51:49	Dark	56.500	1	9Alp CMa	-1.4400	11000.	113	13151	No
147	GOM_NL__2PRFIN20040904_205601_000000842030_00071_13151_3525.N1	04-SEP-2004 20:56:01	Dark	84.000	7	19Bet Ori	0.10000	14000.	168	13151	No
148	GOM_NL__2PRFIN20040904_210108_000000552030_00071_13151_3526.N1	04-SEP-2004 21:01:08	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	13151	No
149	GOM_NL__2PRFIN20040904_211114_000000392030_00072_13152_3495.N1	04-SEP-2004 21:11:14	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	13152	No
150	GOM_NL__2PRFIN20040904_211250_000000472030_00072_13152_3496.N1	04-SEP-2004 21:12:50	Dark	47.000	9	Alp Eri	0.45300	24000.	94	13152	No
151	GOM_NL__2PRFIN20040904_211649_000000452030_00072_13152_3497.N1	04-SEP-2004 21:16:49	Straylight	44.500	148	Alp Tuc	2.8780	4100.0	89	13152	No
152	GOM_NL__2PRFIN20040904_211845_000000522030_00072_13152_3498.N1	04-SEP-2004 21:18:45	Straylight	52.000	84	Alp Phe	2.3970	4500.0	104	13152	No
153	GOM_NL__2PRFIN20040904_212030_000000412030_00072_13152_3499.N1	04-SEP-2004 21:20:30	Straylight	40.500	31	Alp Gru	1.7340	15200.	81	13152	No
154	GOM_NL__2PRFIN20040904_212318_000000412030_00072_13152_3500.N1	04-SEP-2004 21:23:18	Straylight	41.000	172	Gam Gru	3.0030	13100.	82	13152	No
155	GOM_NL__2PRFIN20040904_212436_000000482030_00072_13152_3501.N1	04-SEP-2004 21:24:36	Straylight	48.000	18	24Alp PsA	1.1660	9700.0	96	13152	No
156	GOM_NL__2PRFIN20040904_212712_000000752030_00072_13152_3502.N1	04-SEP-2004 21:27:12	Twi_and_stray	75.000	52	16Bet Cet	2.0370	4500.0	150	13152	No
157	GOM_NL__2PRFIN20040904_213225_000000392030_00072_13152_3503.N1	04-SEP-2004 21:32:25	Bright	39.000	154	22Bet Aqr	2.8990	5700.0	78	13152	No
158	GOM_NL__2PRFIN20040904_213346_000000412030_00072_13152_3504.N1	04-SEP-2004 21:33:46	Bright	40.500	162	34Alp Aqr	2.9440	5350.0	81	13152	No
159	GOM_NL__2PRFIN20040904_213644_000000412030_00072_13152_3505.N1	04-SEP-2004 21:36:44	Bright	40.500	61	8Eps Peg	2.1000	3900.0	81	13152	No
160	GOM_NL__2PRFIN20040904_213913_000000462030_00072_13152_3506.N1	04-SEP-2004 21:39:13	Bright	46.000	90	54Alp Peg	2.4870	11000.	92	13152	No

161	GOM_NL__2PRFIN20040904_214344_000000382030_00072_13152_3507.N1	04-SEP-2004 21:43:44	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	13152	No
162	GOM_NL__2PRFIN20040904_214541_000000382030_00072_13152_3508.N1	04-SEP-2004 21:45:41	Bright	38.000	66	37Gam Cyg	2.2080	5900.0	76	13152	No
163	GOM_NL__2PRFIN20040904_214652_000000372030_00072_13152_3509.N1	04-SEP-2004 21:46:52	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	13152	No
164	GOM_NL__2PRFIN20040904_215142_000000362030_00072_13152_3510.N1	04-SEP-2004 21:51:42	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	13152	No
165	GOM_NL__2PRFIN20040904_215358_000000462030_00072_13152_3511.N1	04-SEP-2004 21:53:58	Bright	45.500	74	11Bet Cas	2.2680	6600.0	91	13152	No
166	GOM_NL__2PRFIN20040904_215601_000000462030_00072_13152_3512.N1	04-SEP-2004 21:56:01	Bright	46.000	76	27Gam Cas	2.3000	30000.	92	13152	No
167	GOM_NL__2PRFIN20040904_215924_000000392030_00072_13152_3513.N1	04-SEP-2004 21:59:24	Bright	39.000	49	1Alp UMi	1.9900	6300.0	78	13152	No
168	GOM_NL__2PRFIN20040904_220302_000000592030_00072_13152_3514.N1	04-SEP-2004 22:03:02	Bright	58.500	160	23Gam Per	2.9300	4700.0	117	13152	No
169	GOM_NL__2PRFIN20040904_220606_000000362030_00072_13152_3515.N1	04-SEP-2004 22:06:06	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	13152	No
170	GOM_NL__2PRFIN20040904_220727_000000392030_00072_13152_3516.N1	04-SEP-2004 22:07:27	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	13152	No
171	GOM_NL__2PRFIN20040904_221110_000000672030_00072_13152_3517.N1	04-SEP-2004 22:11:10	Bright	66.500	6	13Alp Aur	0.080000	3400.0	133	13152	No
172	GOM_NL__2PRFIN20040904_221511_000000532030_00072_13152_3518.N1	04-SEP-2004 22:15:11	Bright	52.500	107	37The Aur	2.6490	11000.	105	13152	No
173	GOM_NL__2PRFIN20040904_221735_000000442030_00072_13152_3519.N1	04-SEP-2004 22:17:35	Bright	43.500	17	78Bet Gem	1.1610	4500.0	87	13152	No
174	GOM_NL__2PRFIN20040904_221919_000000862030_00072_13152_3520.N1	04-SEP-2004 22:19:19	Twilight	86.000	28	12Bet Tau	1.6500	15200.	172	13152	No
175	GOM_NL__2PRFIN20040904_222229_000000572030_00072_13152_3521.N1	04-SEP-2004 22:22:29	Twilight	56.500	44	24Gam Gem	1.9280	11000.	113	13152	No
176	GOM_NL__2PRFIN20040904_222426_000000552030_00072_13152_3522.N1	04-SEP-2004 22:24:26	Twilight	54.500	8	10Alp CMI	0.40000	6500.0	109	13152	No
177	GOM_NL__2PRFIN20040904_222734_000000802030_00072_13152_3523.N1	04-SEP-2004 22:27:34	Dark	80.000	14	58Alp Ori	0.87000	3000.0	160	13152	No
178	GOM_NL__2PRFIN20040904_223223_000000622030_00072_13152_3524.N1	04-SEP-2004 22:32:23	Dark	62.000	1	9Alp CMa	-1.4400	11000.	124	13152	No
179	GOM_NL__2PRFIN20040904_223639_000001052030_00072_13152_3525.N1	04-SEP-2004 22:36:39	Dark	105.00	7	19Bet Ori	0.10000	14000.	210	13152	No
180	GOM_NL__2PRFIN20040904_224144_000000552030_00072_13152_3526.N1	04-SEP-2004 22:41:44	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	13152	No
181	GOM_NL__2PRFIN20040904_225147_000000472030_00073_13153_3495.N1	04-SEP-2004 22:51:47	Dark	46.500	135	Bet Hyi	2.8200	5800.0	93	13153	No
182	GOM_NL__2PRFIN20040904_225326_000000462030_00073_13153_3496.N1	04-SEP-2004 22:53:26	Dark	46.000	9	Alp Eri	0.45300	24000.	92	13153	No
183	GOM_NL__2PRFIN20040904_225724_000000422030_00073_13153_3497.N1	04-SEP-2004 22:57:24	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	13153	No
184	GOM_NL__2PRFIN20040904_225922_000000522030_00073_13153_3498.N1	04-SEP-2004 22:59:22	Straylight	51.500	84	Alp Phe	2.3970	4500.0	103	13153	No
185	GOM_NL__2PRFIN20040904_230106_000000412030_00073_13153_3499.N1	04-SEP-2004 23:01:06	Straylight	41.000	31	Alp Gru	1.7340	15200.	82	13153	No
186	GOM_NL__2PRFIN20040904_230354_000000392030_00073_13153_3500.N1	04-SEP-2004 23:03:54	Straylight	39.000	172	Gam Gru	3.0030	13100.	78	13153	No
187	GOM_NL__2PRFIN20040904_230510_000000482030_00073_13153_3501.N1	04-SEP-2004 23:05:10	Straylight	48.000	18	24Alp PsA	1.1660	9700.0	96	13153	No
188	GOM_NL__2PRFIN20040904_230749_000000762030_00073_13153_3502.N1	04-SEP-2004 23:07:49	Twilight	75.500	52	16Bet Cet	2.0370	4500.0	151	13153	No
189	GOM_NL__2PRFIN20040904_231300_000000412030_00073_13153_3503.N1	04-SEP-2004 23:13:00	Bright	40.500	154	22Bet Aqr	2.8990	5700.0	81	13153	No
190	GOM_NL__2PRFIN20040904_231422_000000412030_00073_13153_3504.N1	04-SEP-2004 23:14:22	Bright	40.500	162	34Alp Aqr	2.9440	5350.0	81	13153	No
191	GOM_NL__2PRFIN20040904_231720_000000412030_00073_13153_3505.N1	04-SEP-2004 23:17:20	Bright	40.500	61	8Eps Peg	2.1000	3900.0	81	13153	No
192	GOM_NL__2PRFIN20040904_231946_000000502030_00073_13153_3506.N1	04-SEP-2004 23:19:46	Bright	49.500	90	54Alp Peg	2.4870	11000.	99	13153	No
193	GOM_NL__2PRFIN20040904_232420_000000392030_00073_13153_3507.N1	04-SEP-2004 23:24:20	Bright	38.500	92	53Eps Cyg	2.5000	4500.0	77	13153	No
194	GOM_NL__2PRFIN20040904_232616_000000372030_00073_13153_3508.N1	04-SEP-2004 23:26:16	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	13153	No
195	GOM_NL__2PRFIN20040904_232728_000000362030_00073_13153_3509.N1	04-SEP-2004 23:27:28	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	13153	No
196	GOM_NL__2PRFIN20040904_233218_000000382030_00073_13153_3510.N1	04-SEP-2004 23:32:18	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	13153	No
197	GOM_NL__2PRFIN20040904_233434_000000452030_00073_13153_3511.N1	04-SEP-2004 23:34:34	Bright	44.500	74	11Bet Cas	2.2680	6600.0	89	13153	No
198	GOM_NL__2PRFIN20040904_233636_000000492030_00073_13153_3512.N1	04-SEP-2004 23:36:36	Bright	48.500	76	27Gam Cas	2.3000	30000.	97	13153	No
199	GOM_NL__2PRFIN20040904_234000_000000392030_00073_13153_3513.N1	04-SEP-2004 23:40:00	Bright	39.000	49	1Alp UMi	1.9900	6300.0	78	13153	No
200	GOM_NL__2PRFIN20040904_234337_000000602030_00073_13153_3514.N1	04-SEP-2004 23:43:37	Bright	59.500	160	23Gam Per	2.9300	4700.0	119	13153	No
201	GOM_NL__2PRFIN20040904_234641_000000412030_00073_13153_3515.N1	04-SEP-2004 23:46:41	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	13153	No
202	GOM_NL__2PRFIN20040904_234805_000000392030_00073_13153_3516.N1	04-SEP-2004 23:48:05	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	13153	No
203	GOM_NL__2PRFIN20040904_235146_000000652030_00073_13153_3517.N1	04-SEP-2004 23:51:46	Bright	64.500	6	13Alp Aur	0.080000	3400.0	129	13153	No
204	GOM_NL__2PRFIN20040904_235547_000000512030_00073_13153_3518.N1	04-SEP-2004 23:55:47	Bright	50.500	107	37The Aur	2.6490	11000.	101	13153	No
205	GOM_NL__2PRFIN20040904_235809_000000452030_00073_13153_3519.N1	04-SEP-2004 23:58:09	Bright	45.000	17	78Bet Gem	1.1610	4500.0	90	13153	No
206	GOM_NL__2PRFIN20040904_235955_000000802030_00073_13153_3520.N1	04-SEP-2004 23:59:55	Twilight	80.000	28	12Bet Tau	1.6500	15200.	160	13153	No

3. Quality information per product

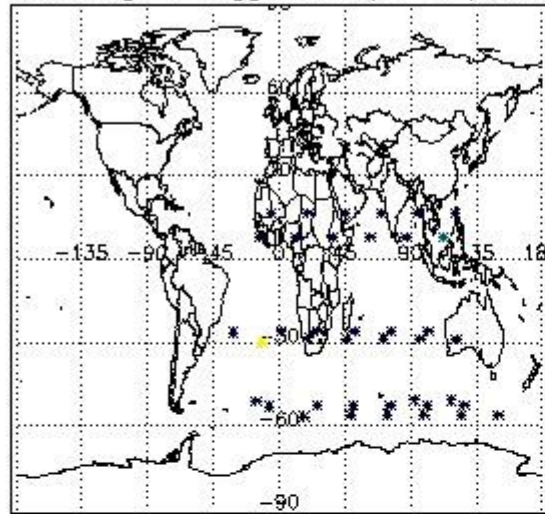
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

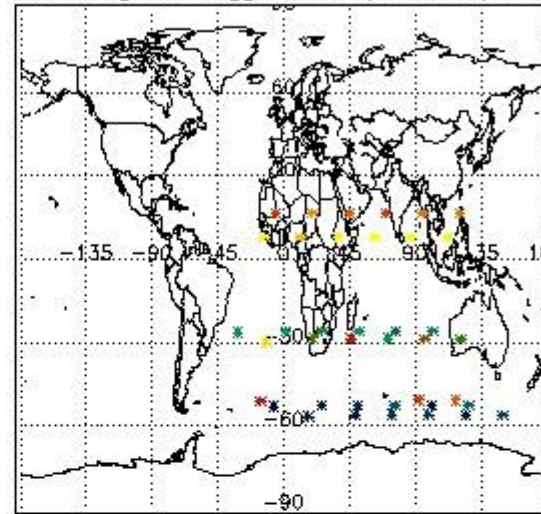


3.2 Plot quality information per product (world map)

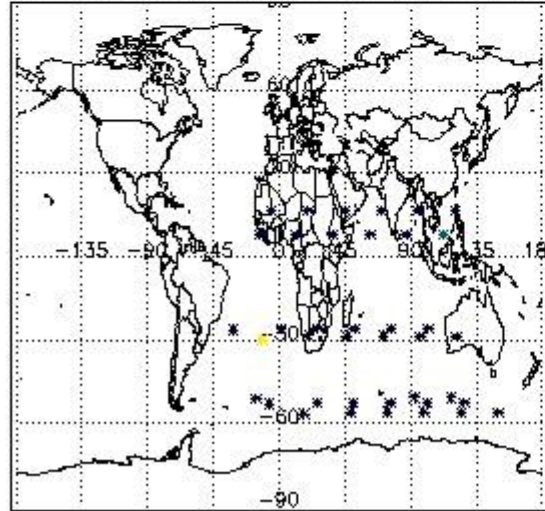
Percentage of flagged data per O3 profile



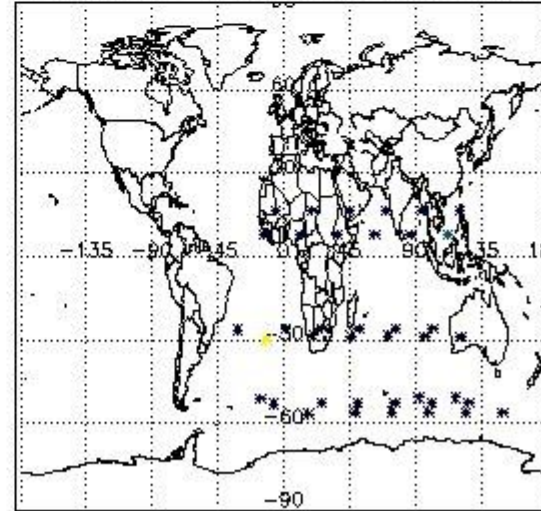
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

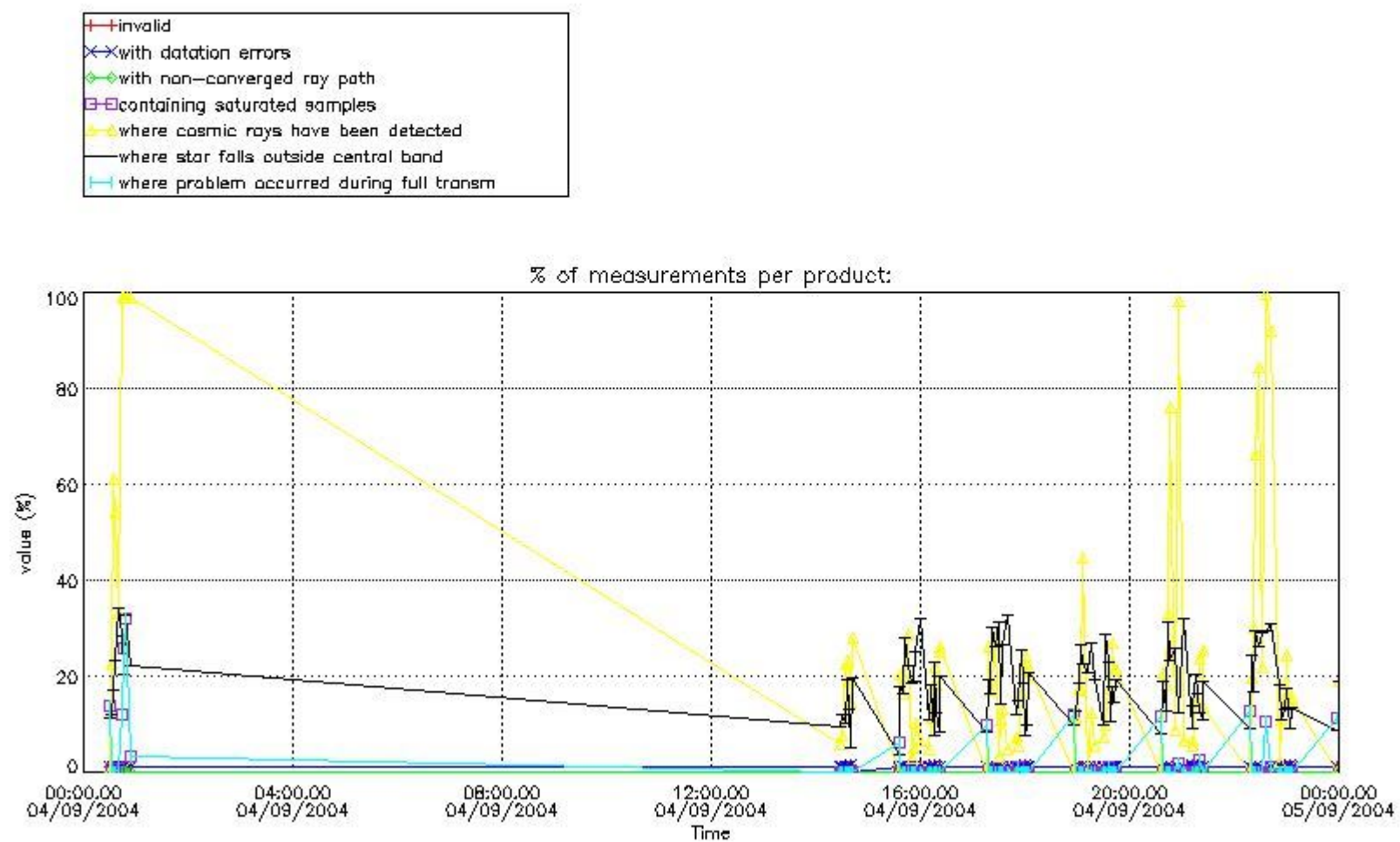


4. Level 1 quality information per product

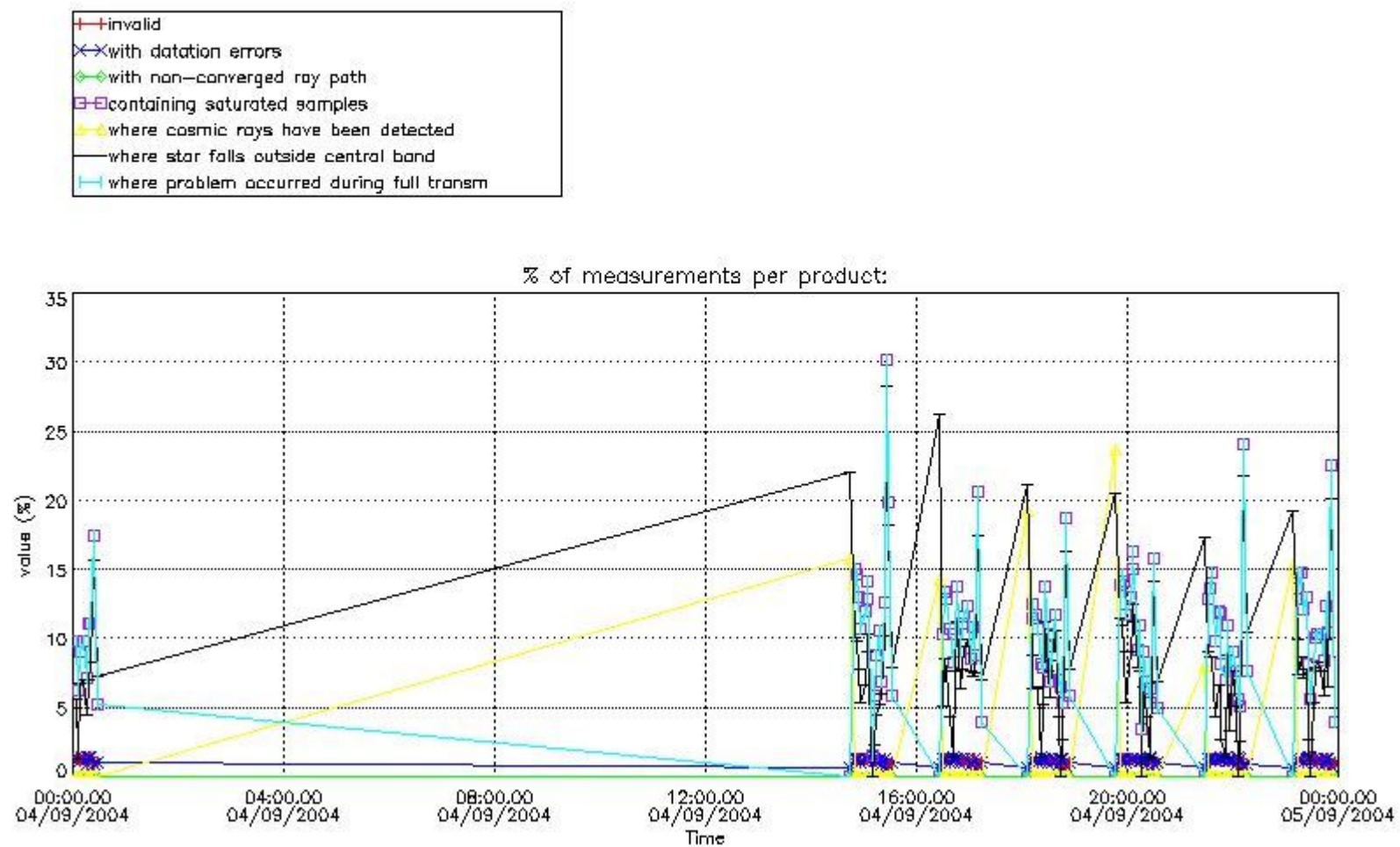
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



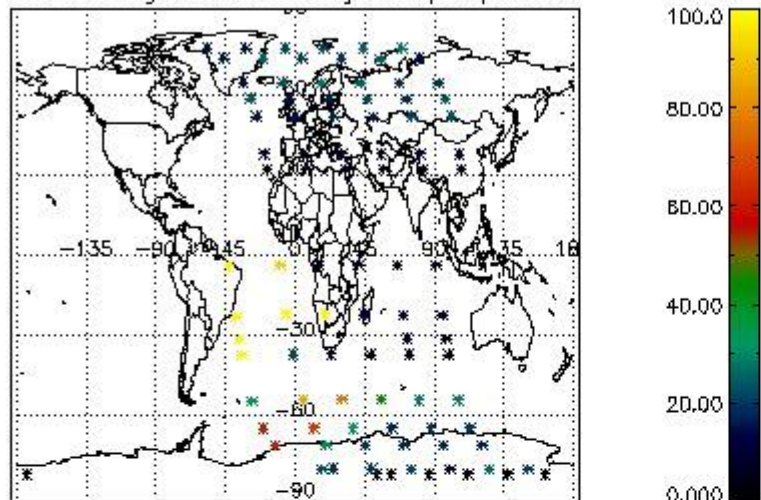
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



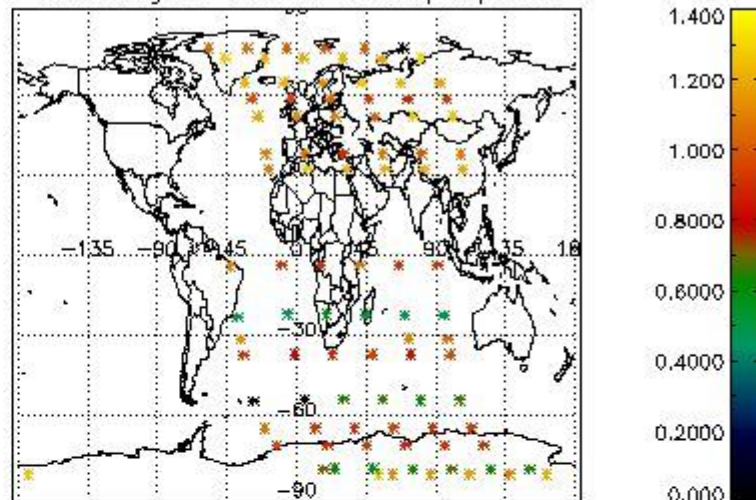
4.2 Plot quality information per product coming from level 1b processing (world map)

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

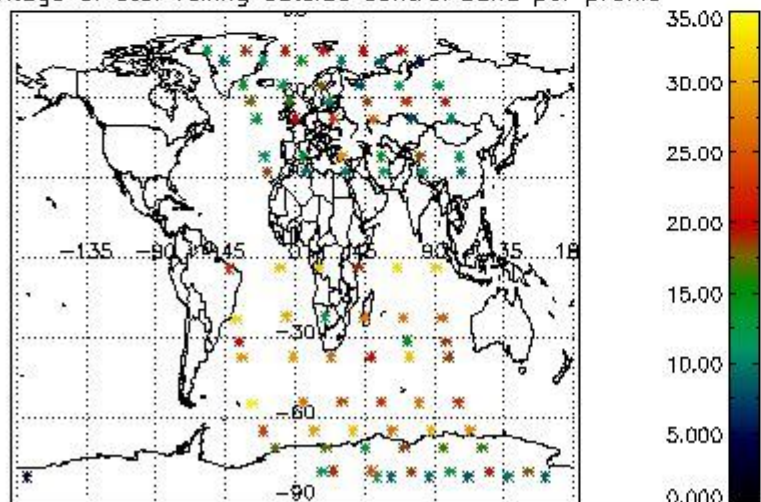
Percentage of cosmic ray hits per profile



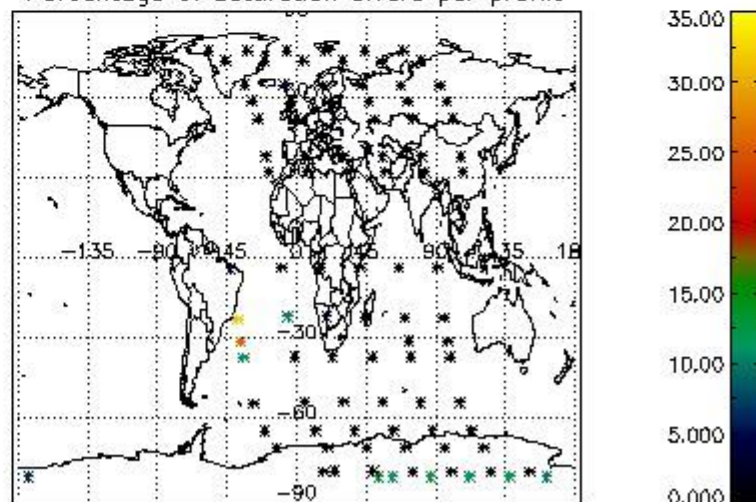
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

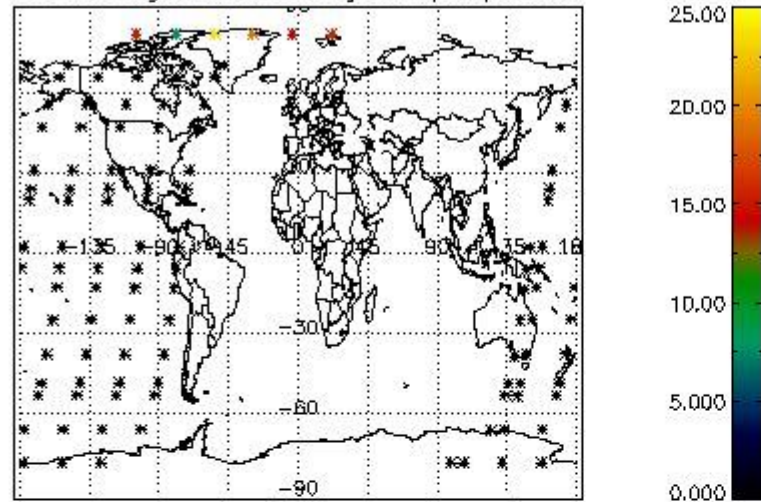


Percentage of saturation errors per profile

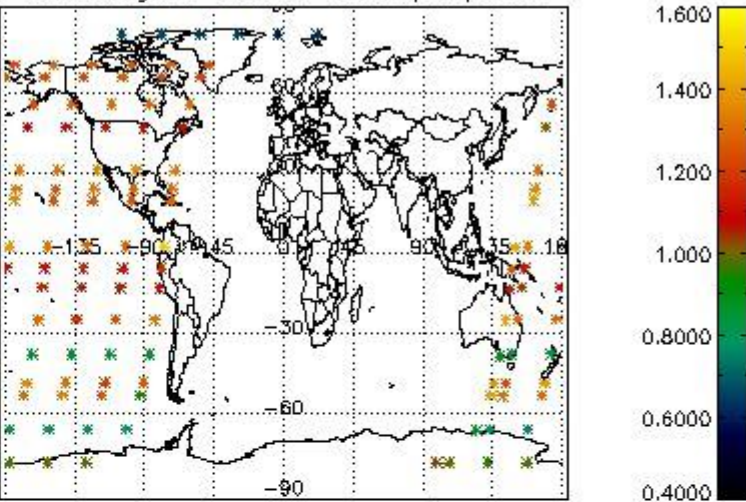


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

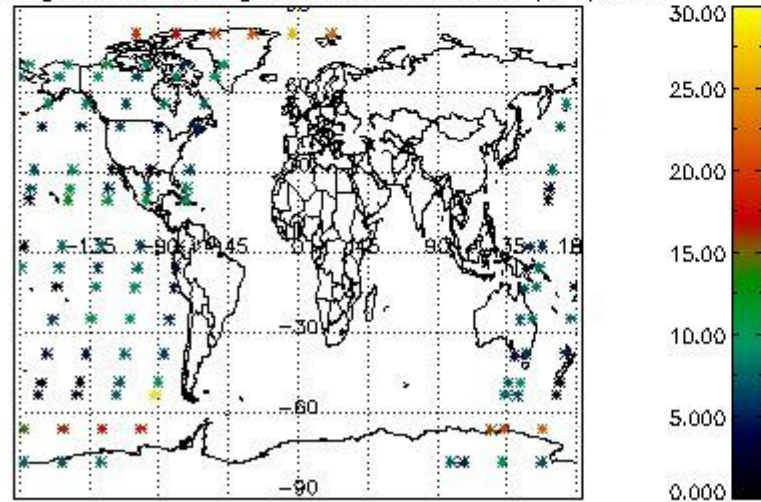
Percentage of cosmic ray hits per profile



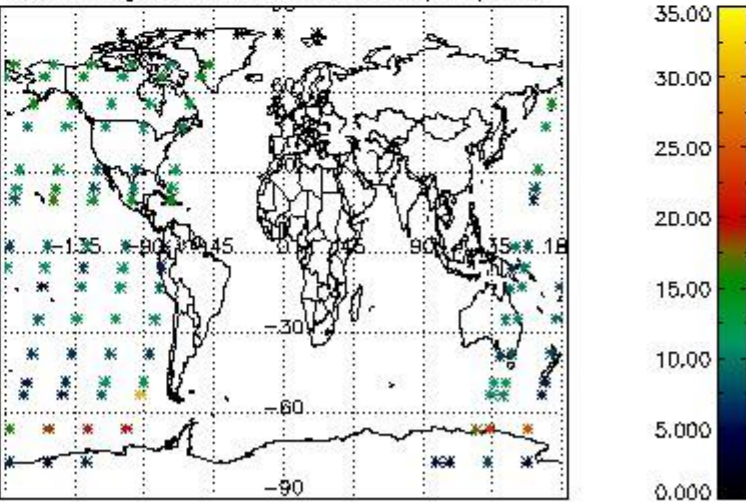
Percentage of datation errors per profile



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

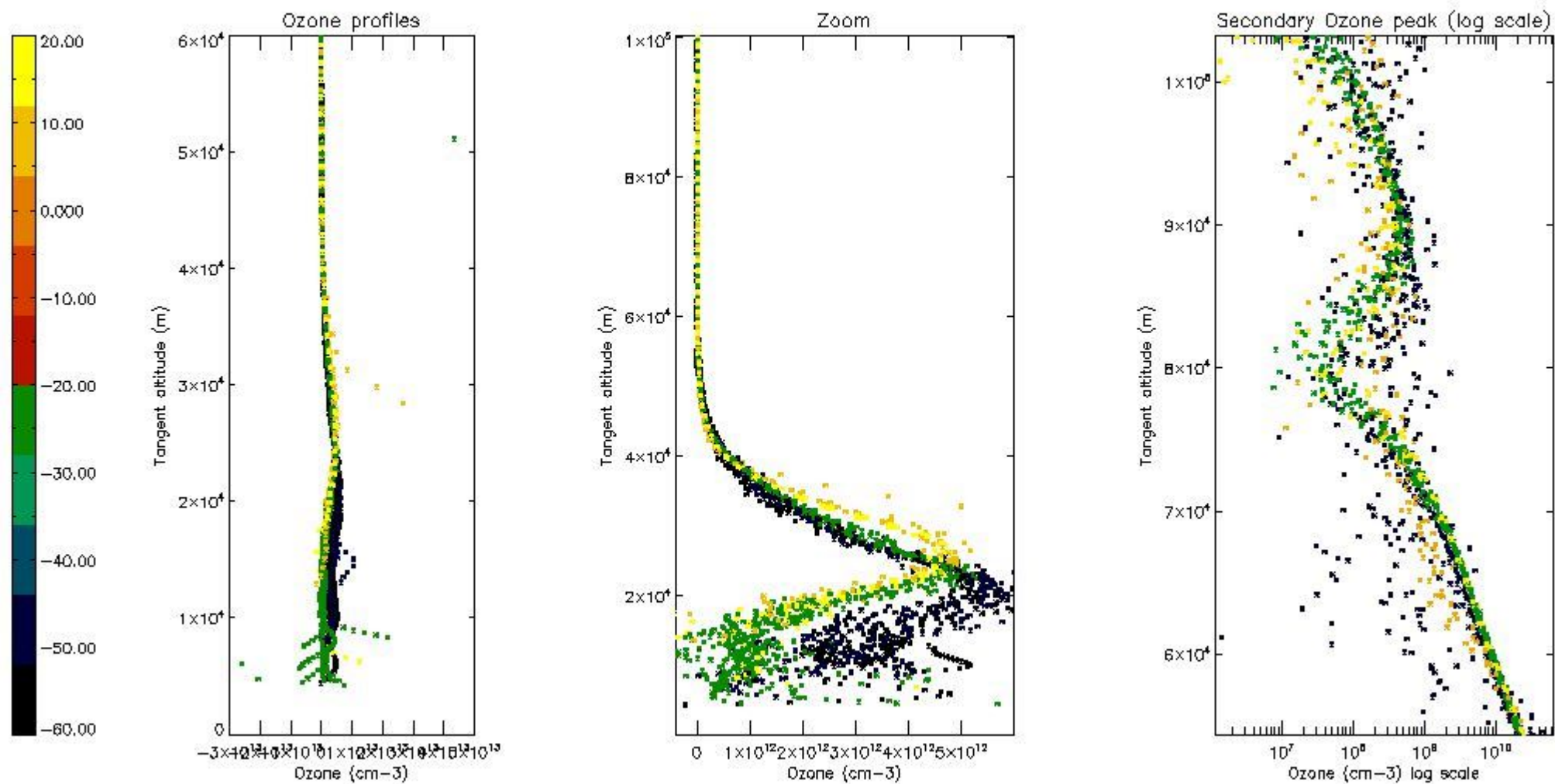
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	23
STD < 20	14

STD < 10	12
STD < 5	9

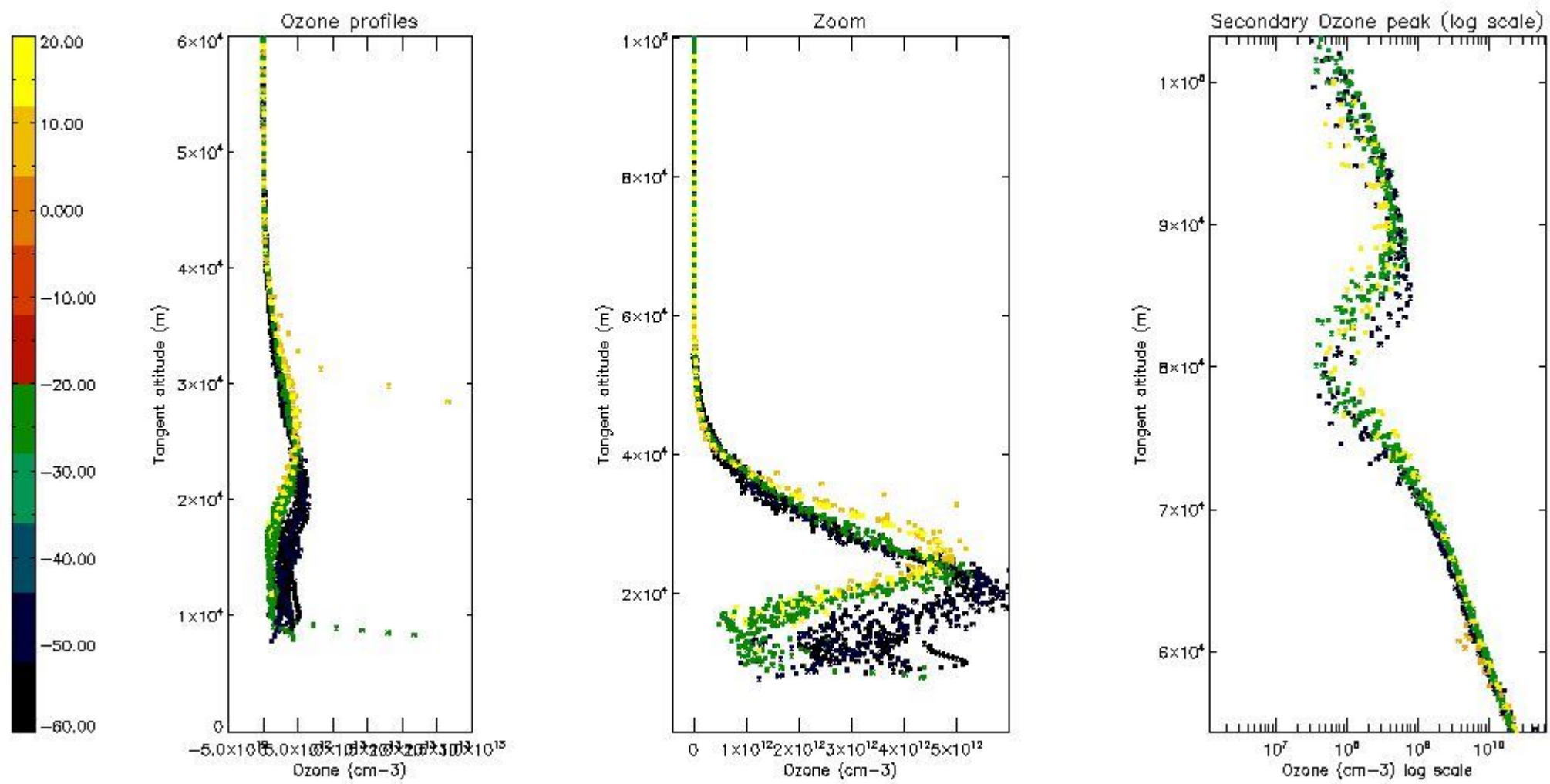
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



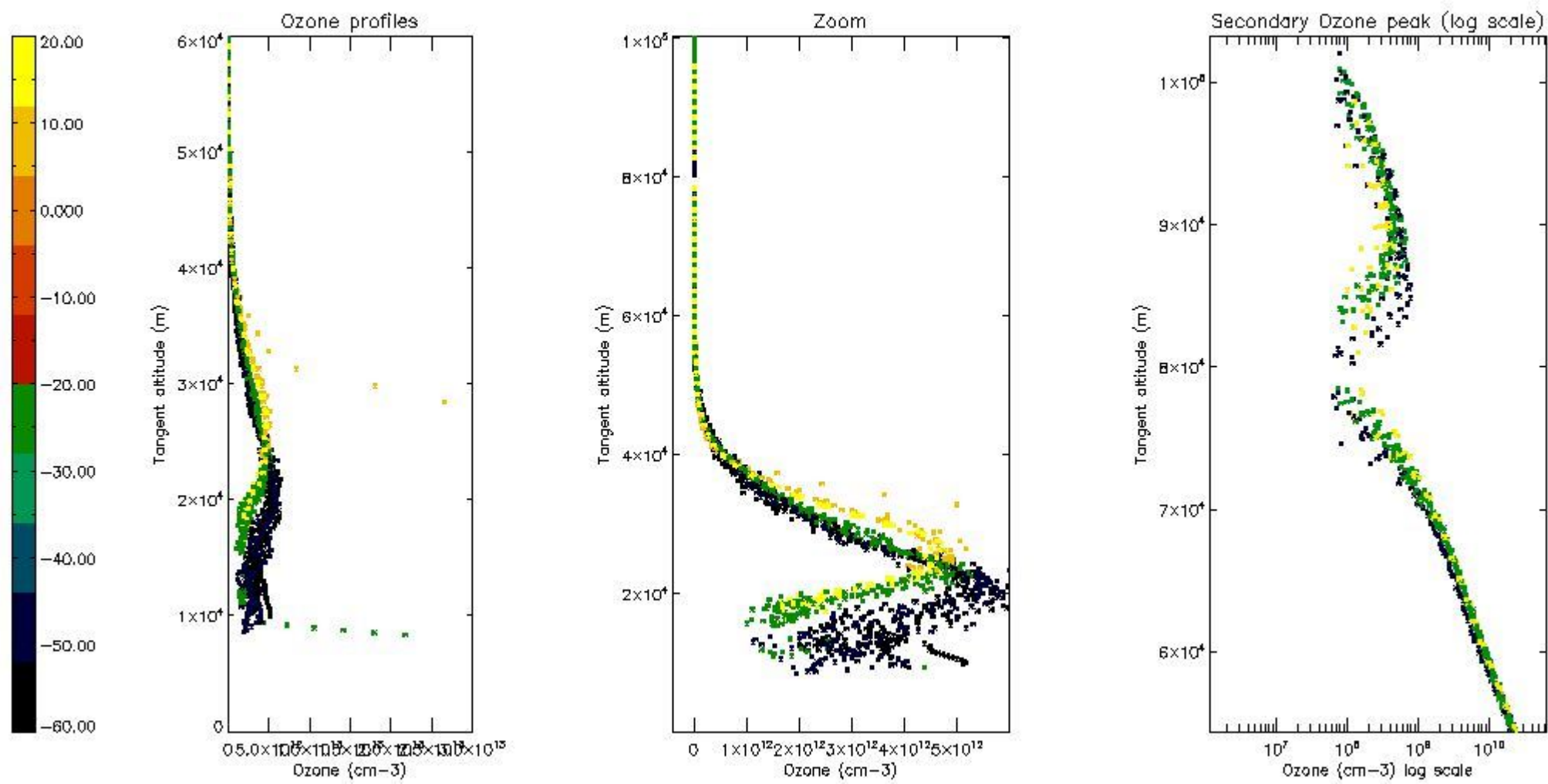
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



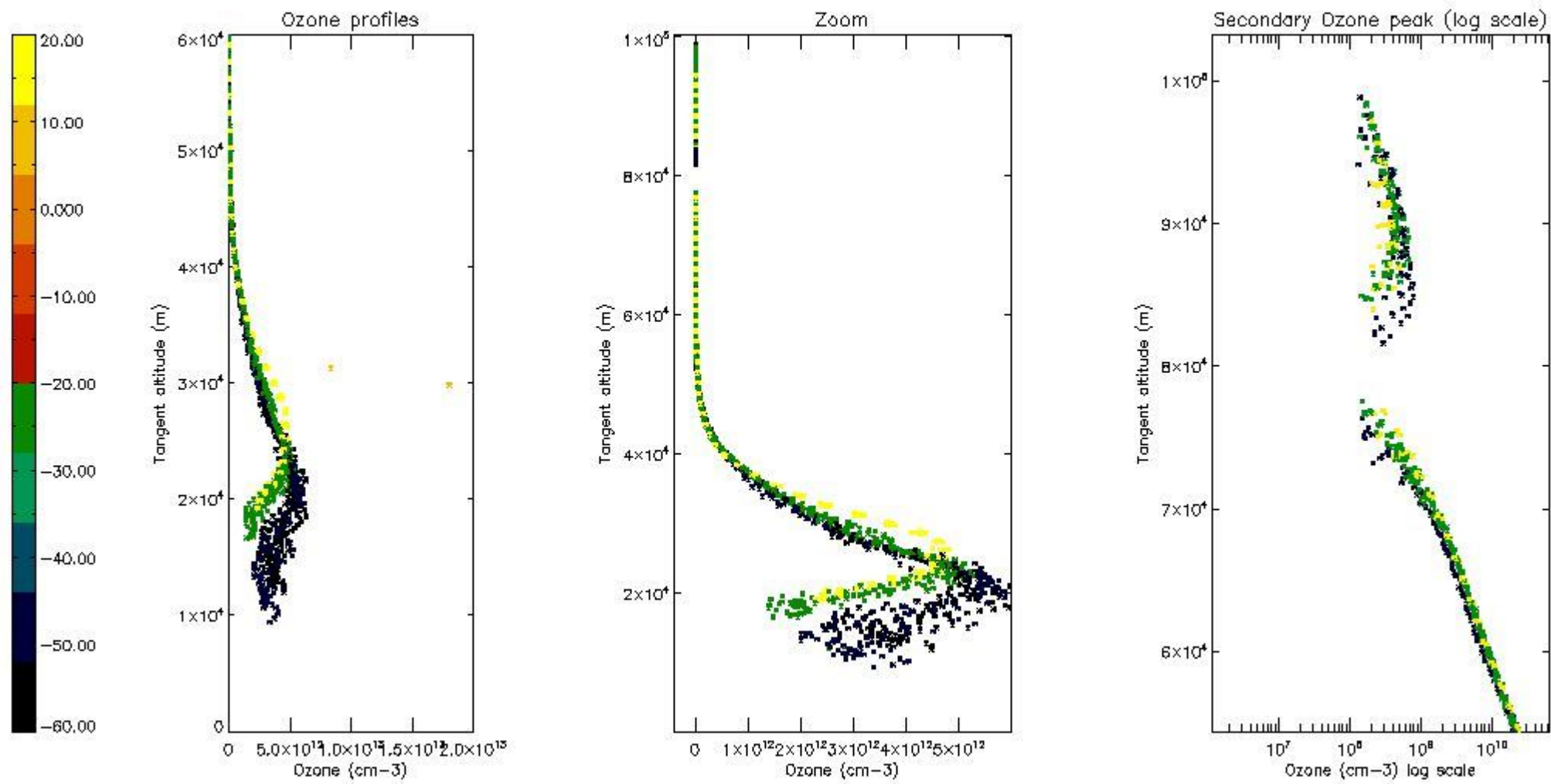
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



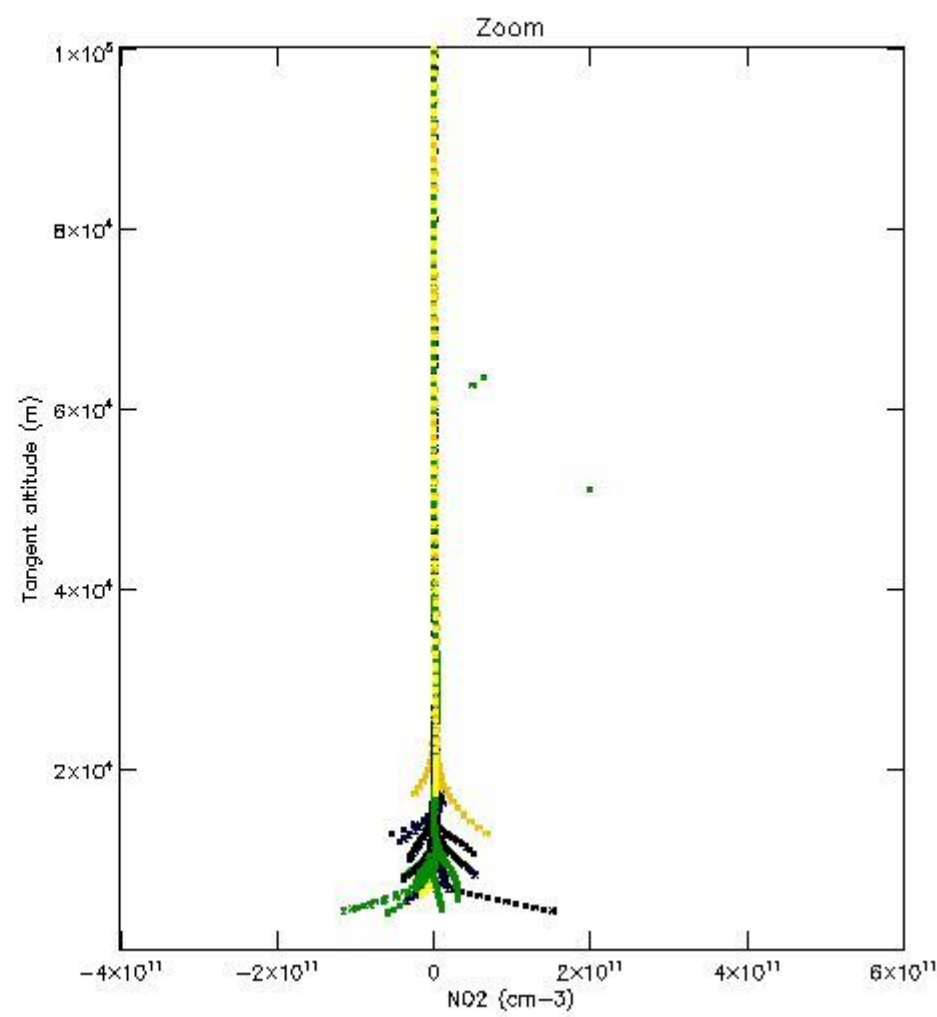
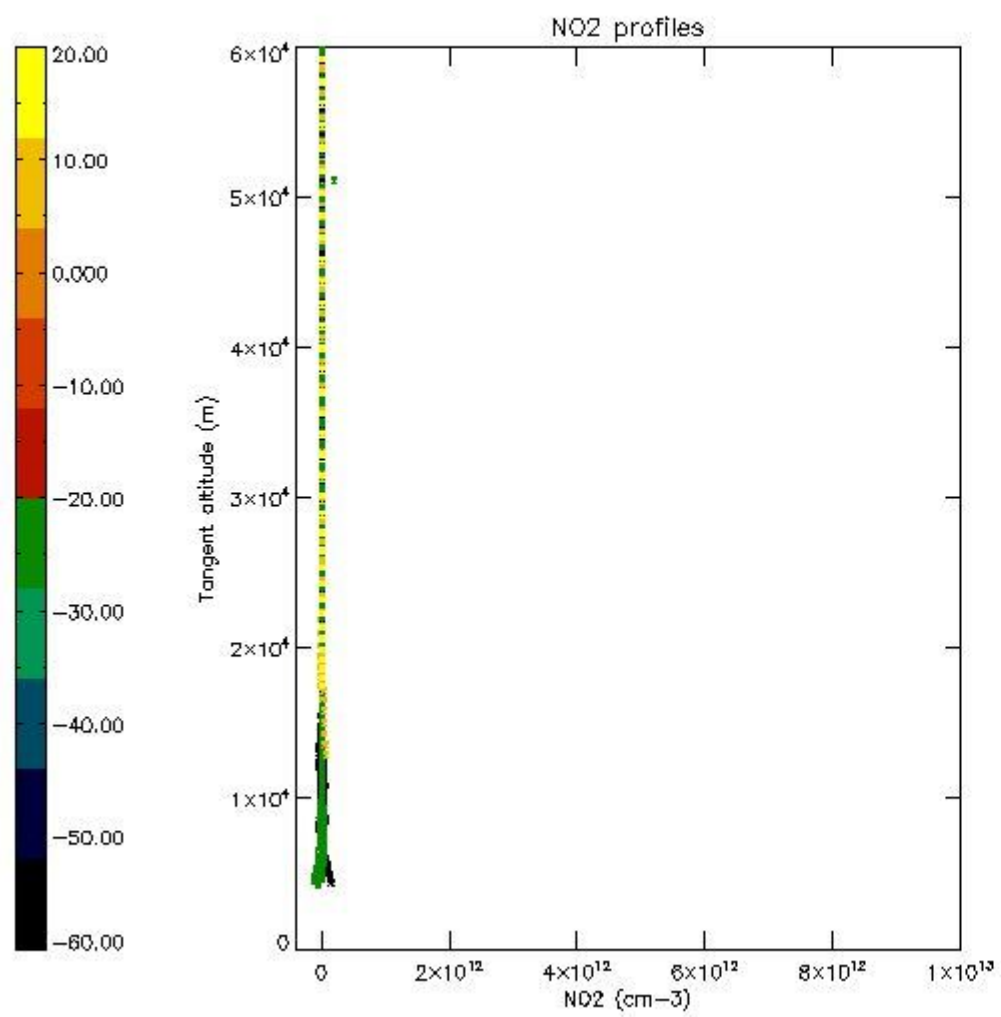
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



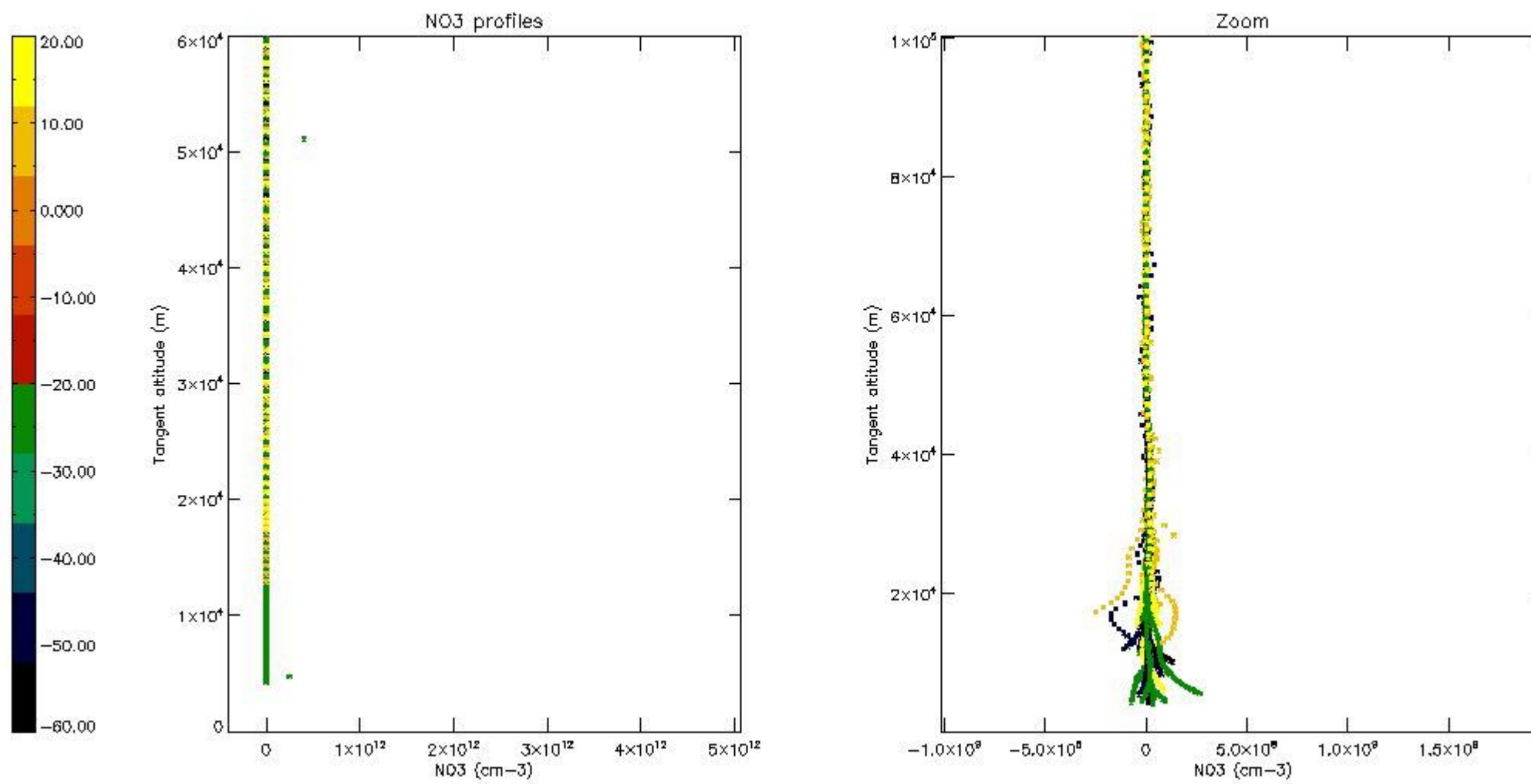
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



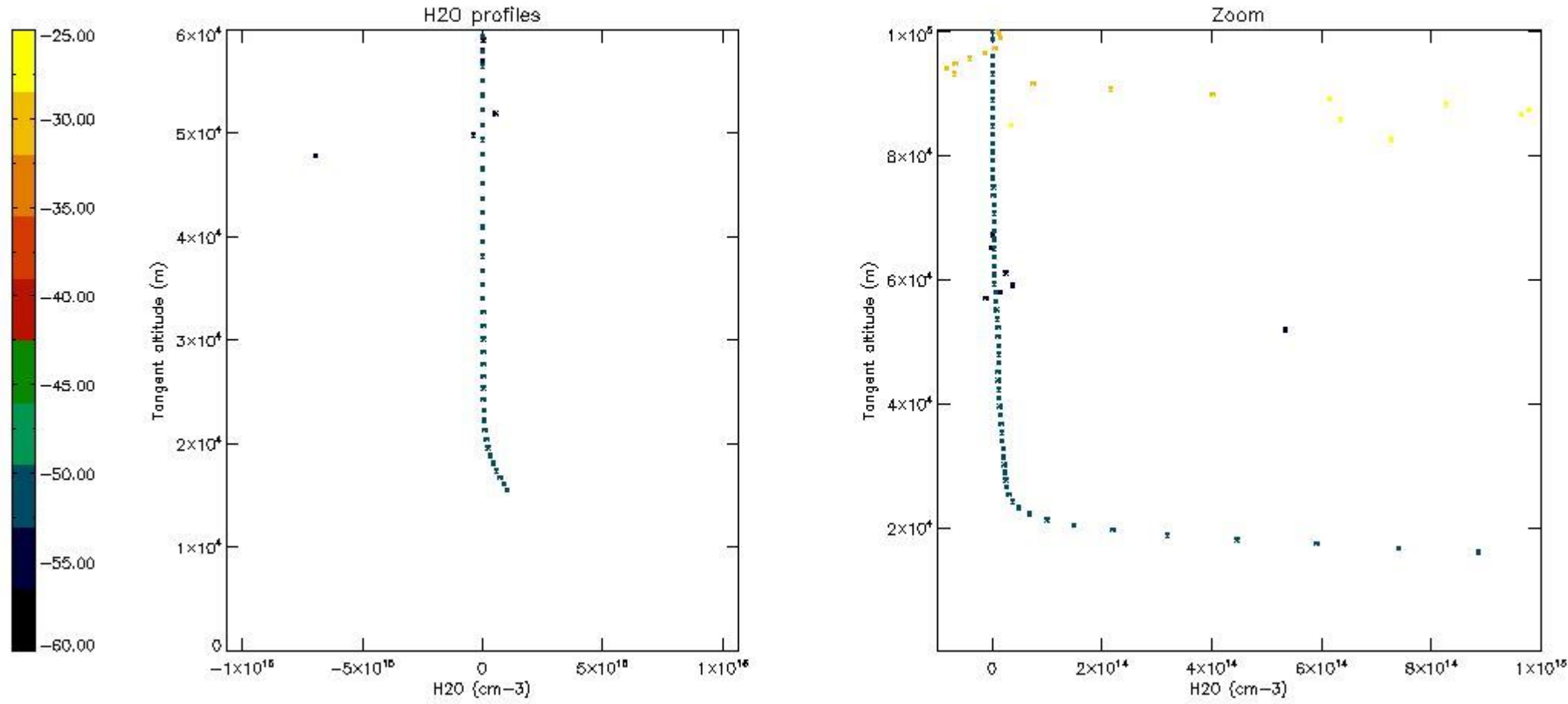
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

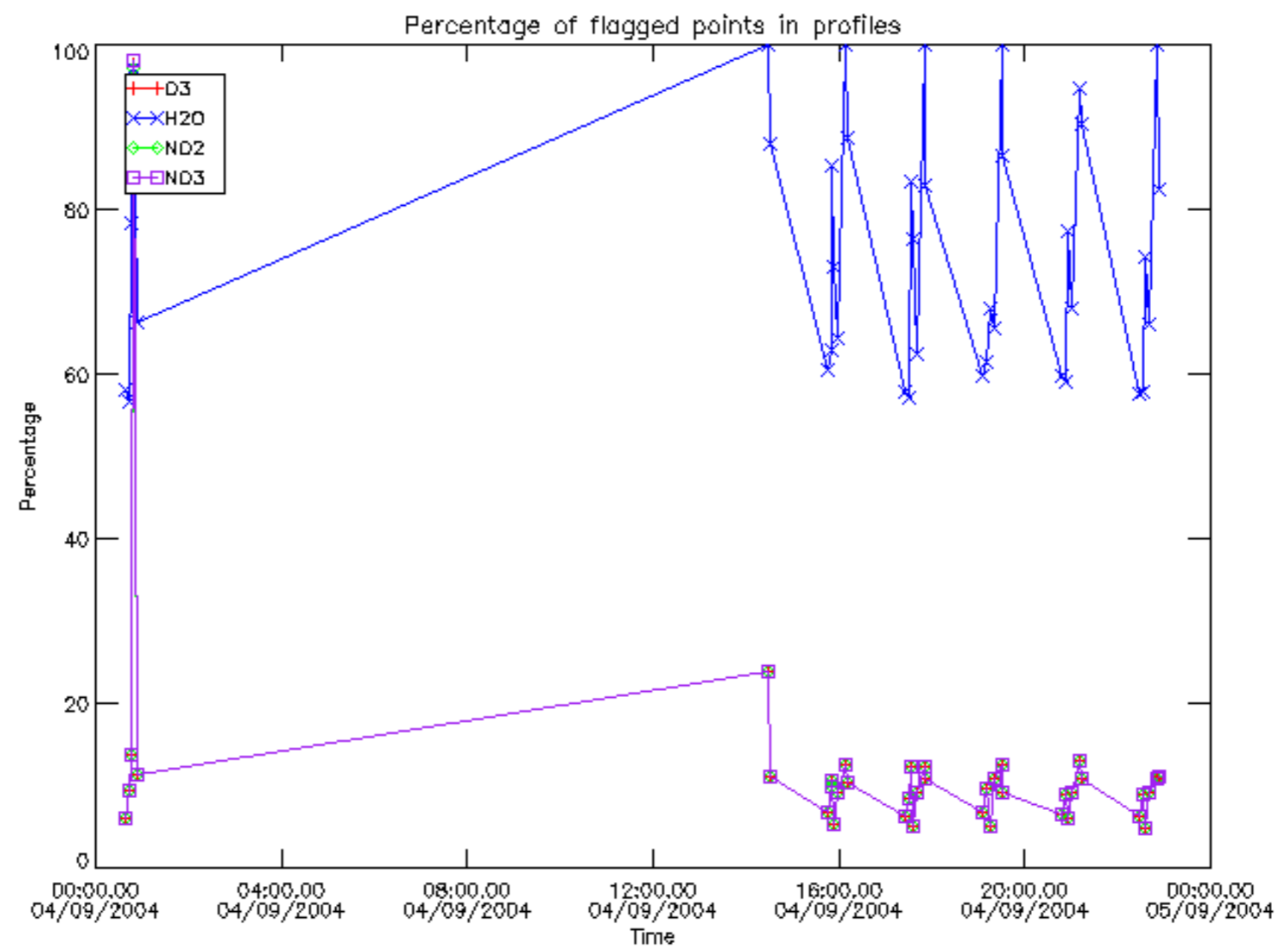
The colorbar represents the latitude.



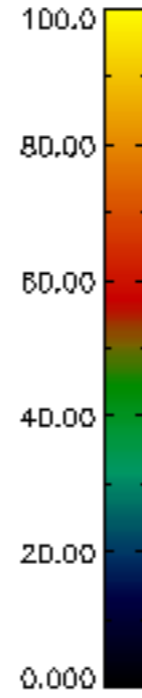
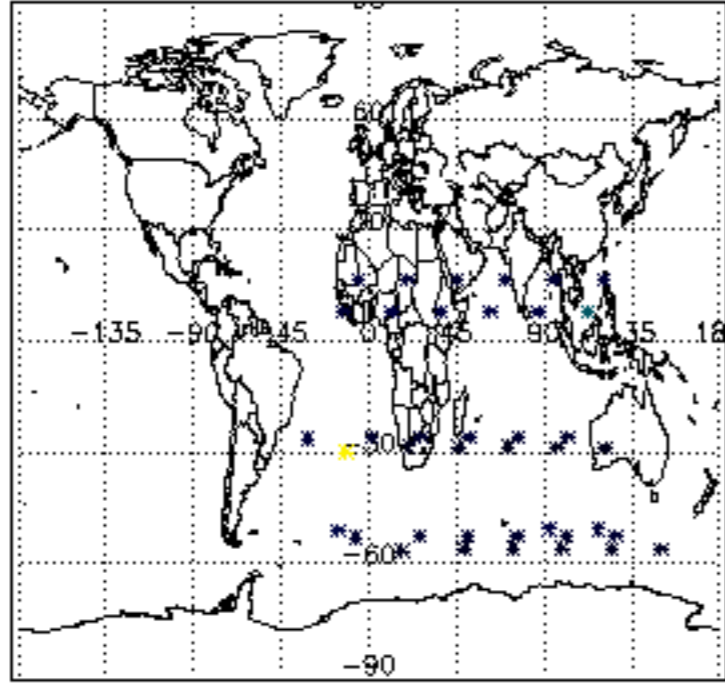
6. Auxiliary Data Files used for the production reported in section 2

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.

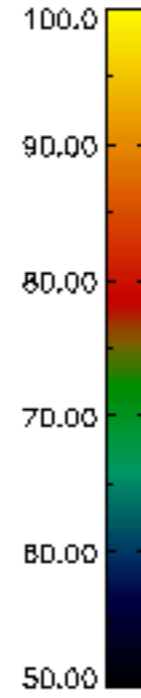
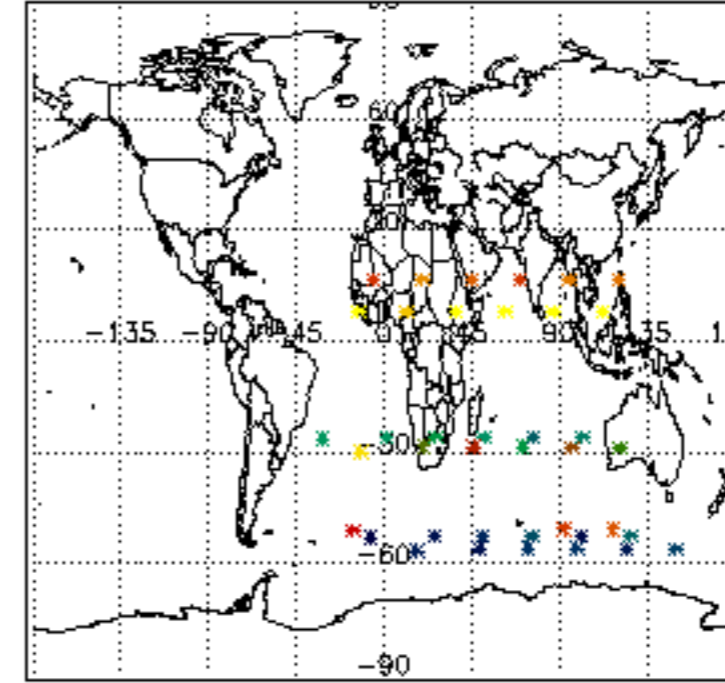
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	04-SEP-2004 00:03:58
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	04-SEP-2004 00:03:58
CROSS_SECTIONS_FILE	GOM_CR2_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	04-SEP-2004 00:03:58



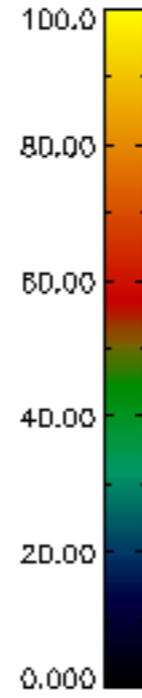
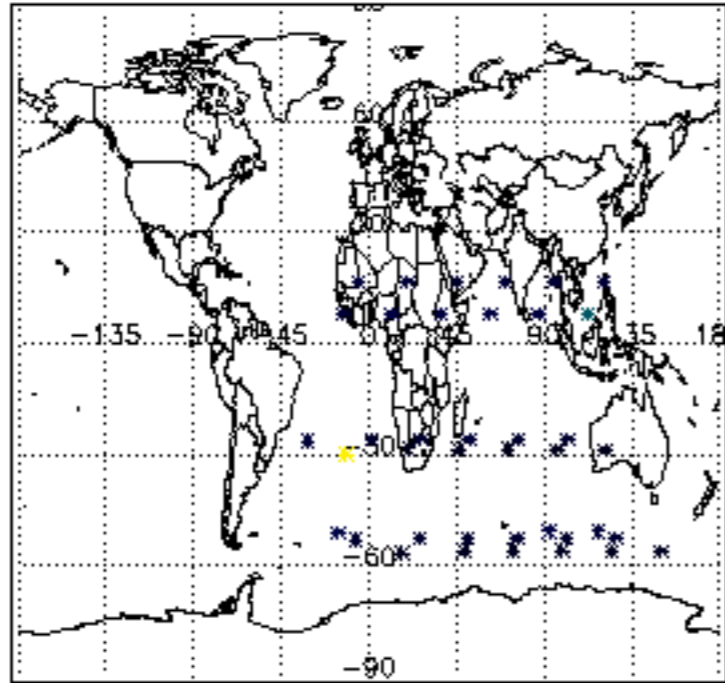
Percentage of flagged data per D3 profile



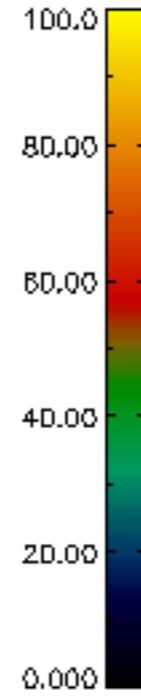
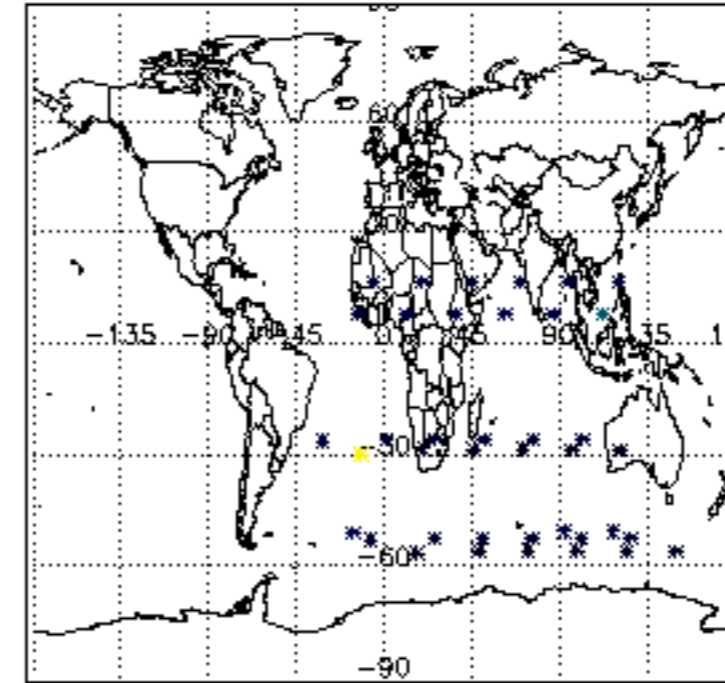
Percentage of flagged data per H2O profile



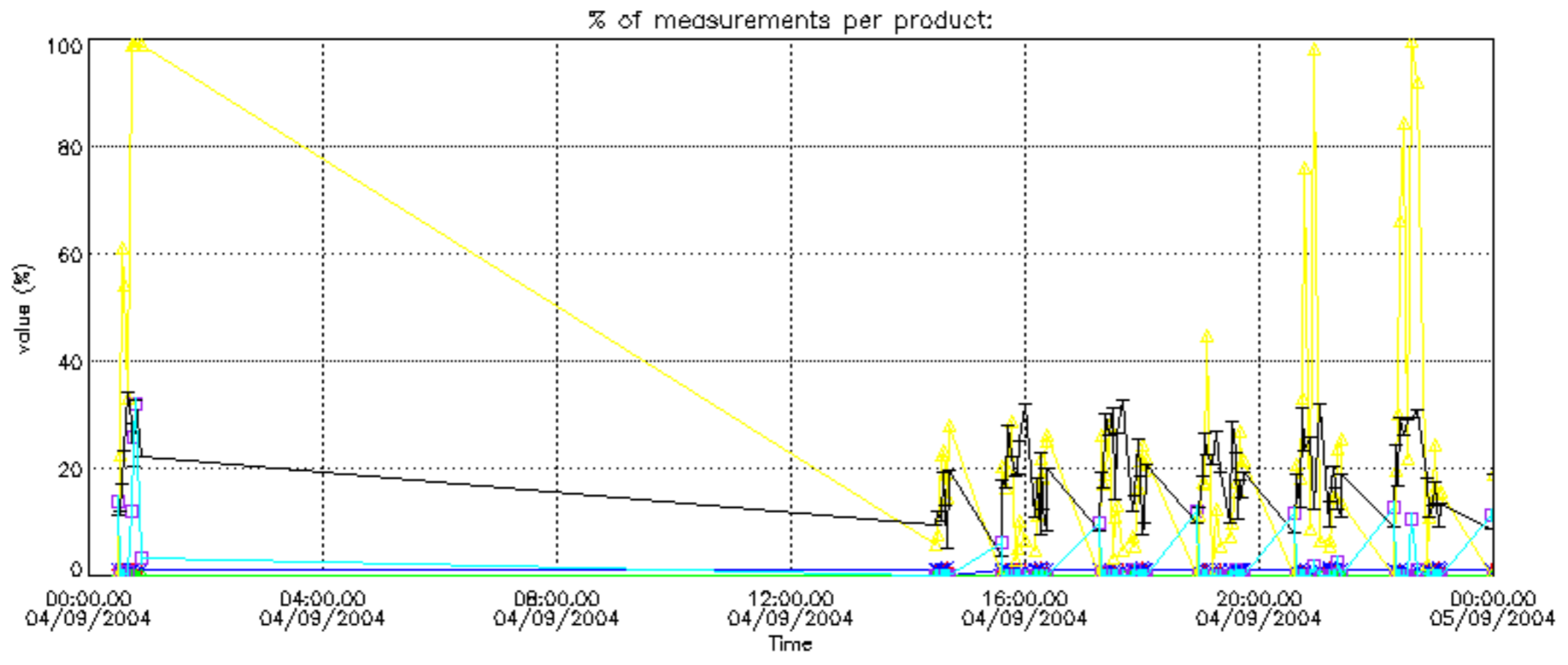
Percentage of flagged data per NO2 profile

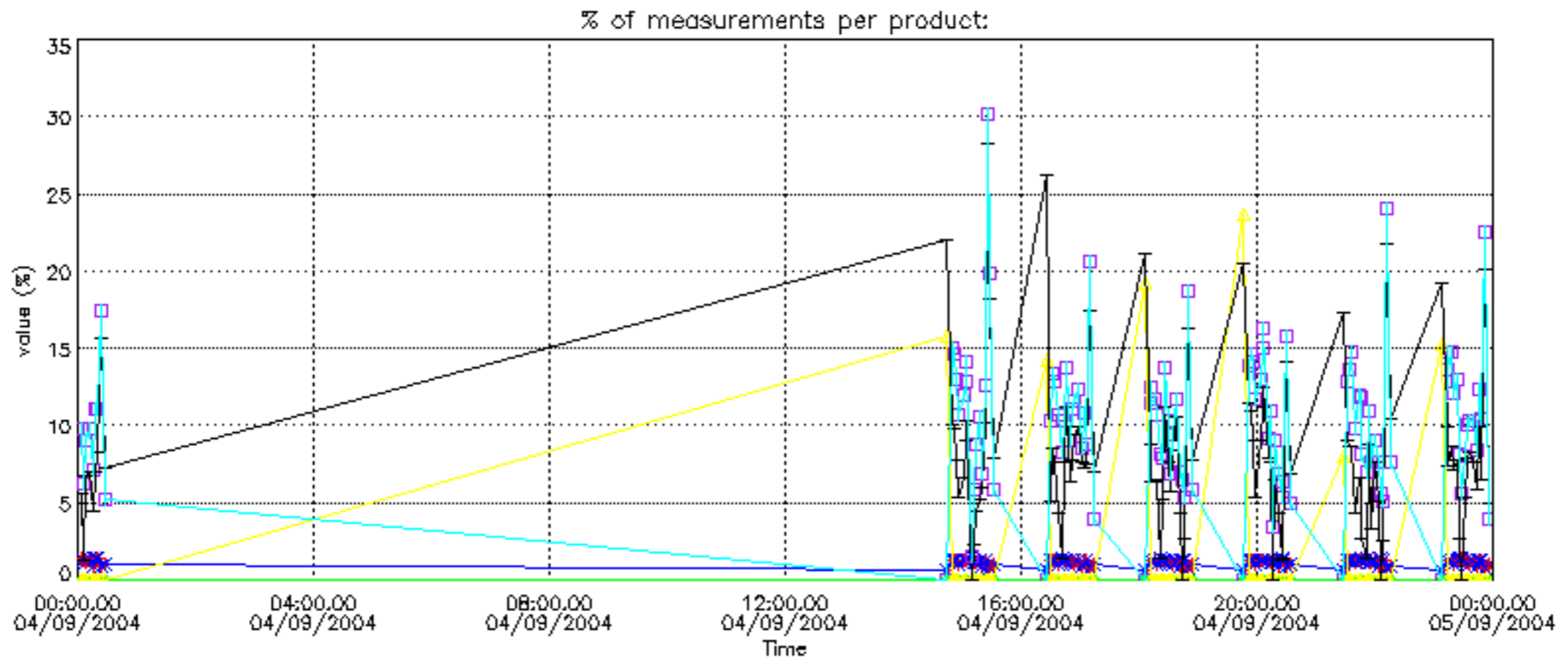


Percentage of flagged data per NO3 profile

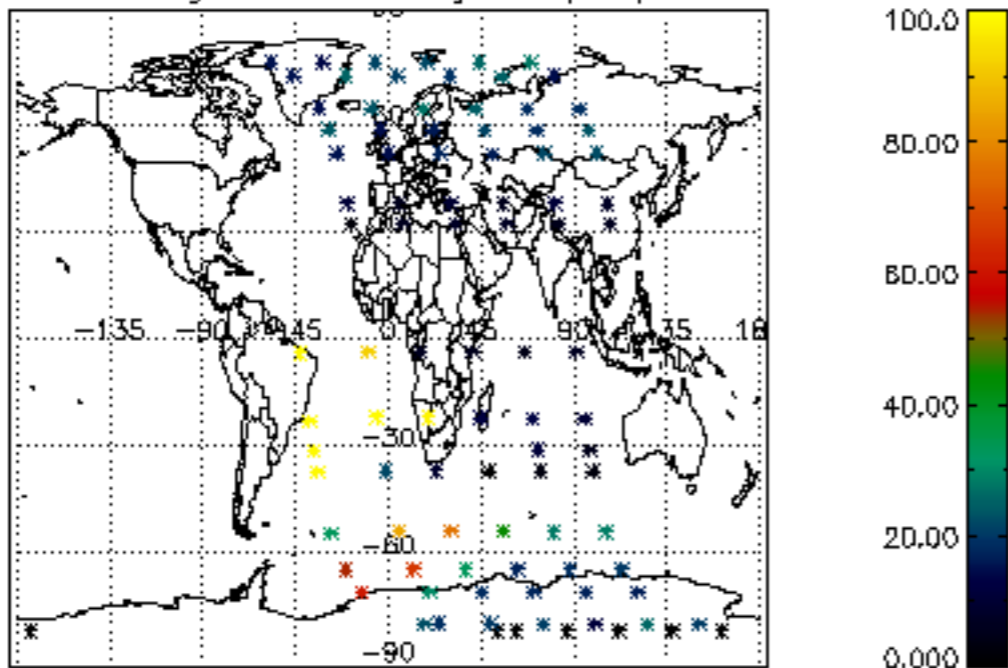


- + invalid
- x with datation errors
- ◇ with non-converged ray path
- containing saturated samples
- △ where cosmic rays have been detected
- where star falls outside central band
- └ where problem occurred during full transm

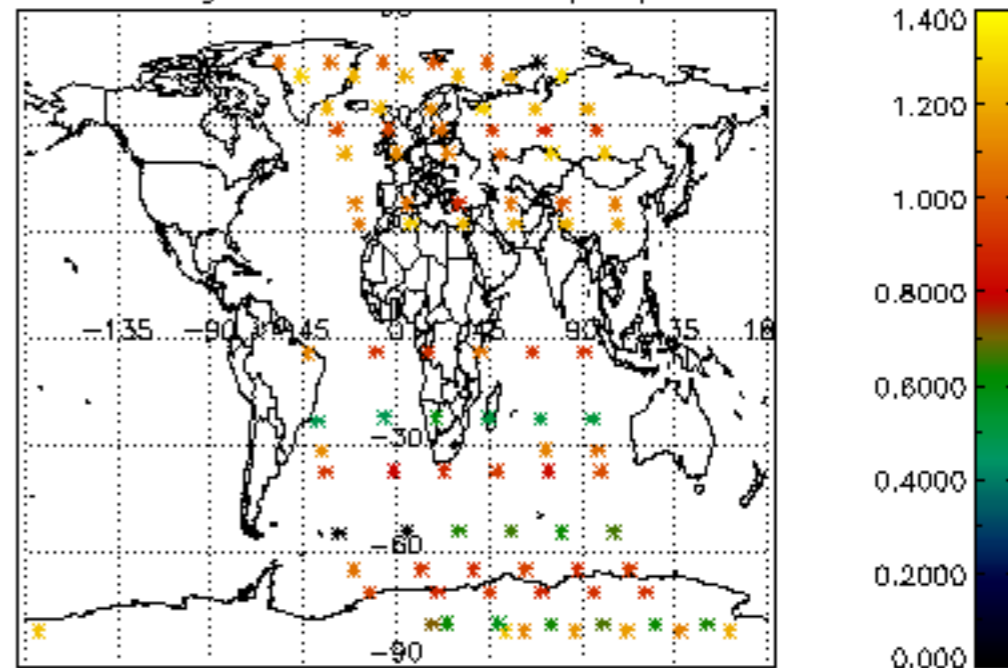




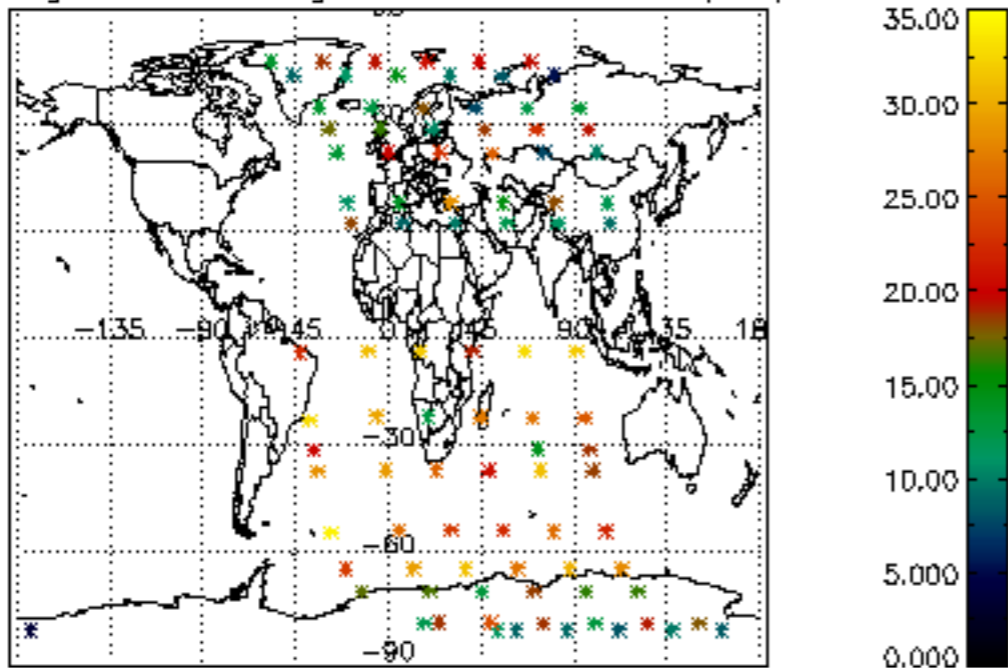
Percentage of cosmic ray hits per profile



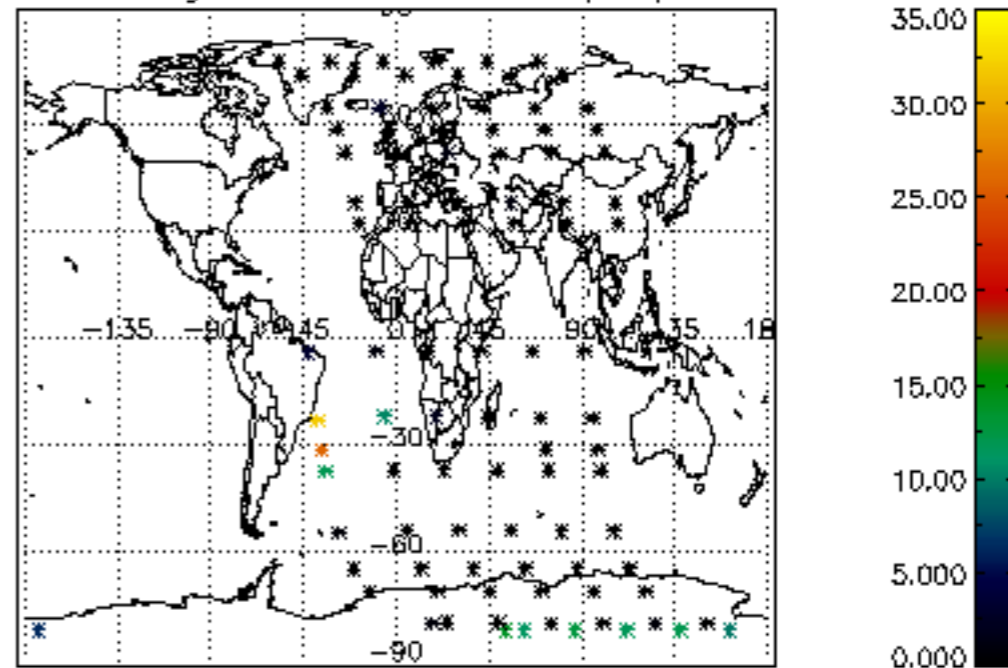
Percentage of datation errors per profile



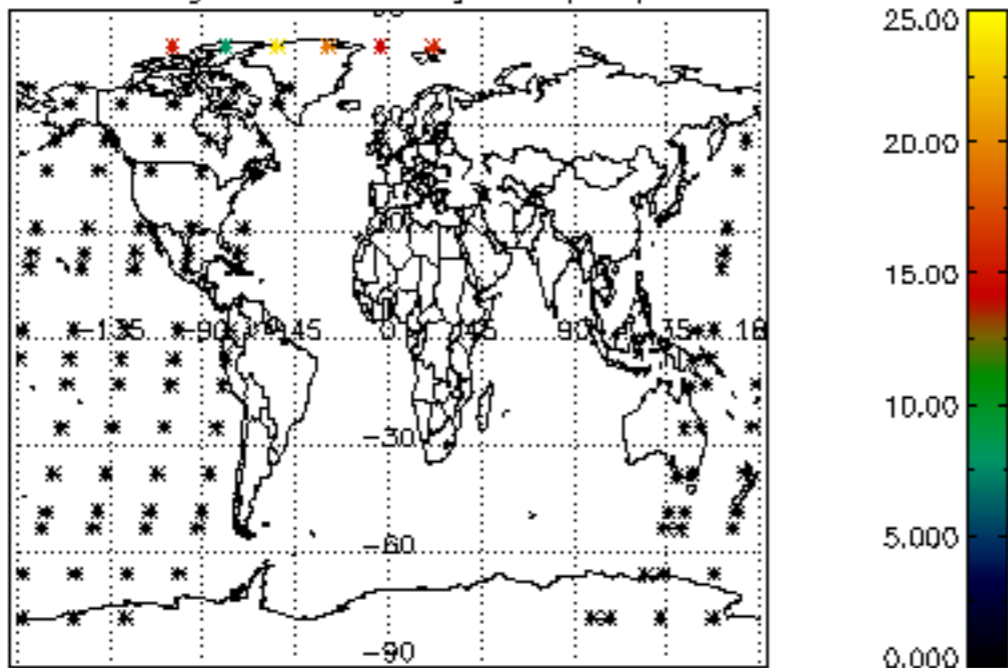
Percentage of star falling outside central band per profile



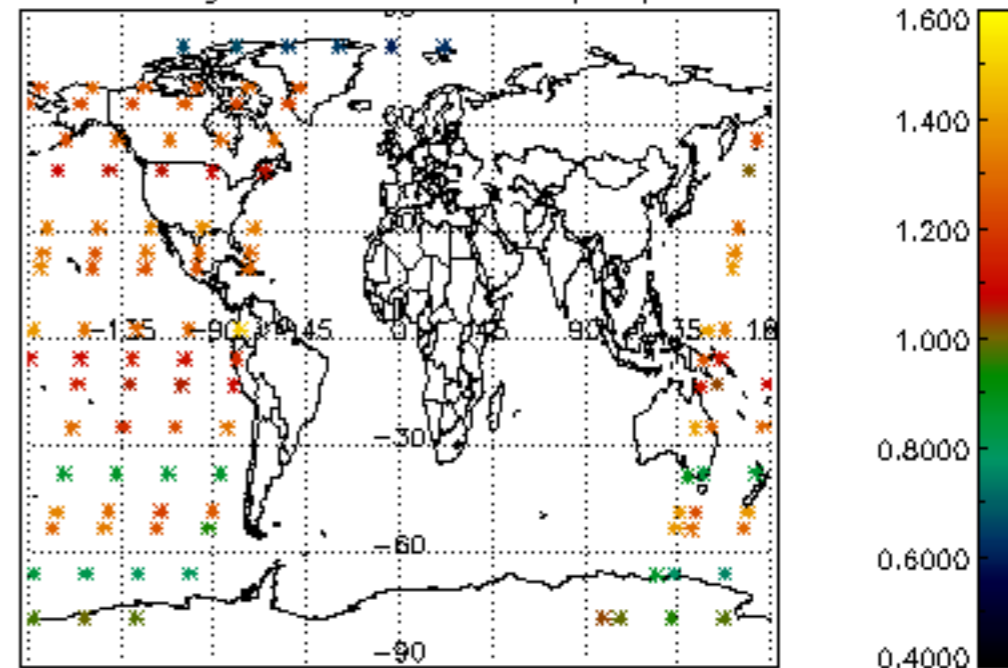
Percentage of saturation errors per profile



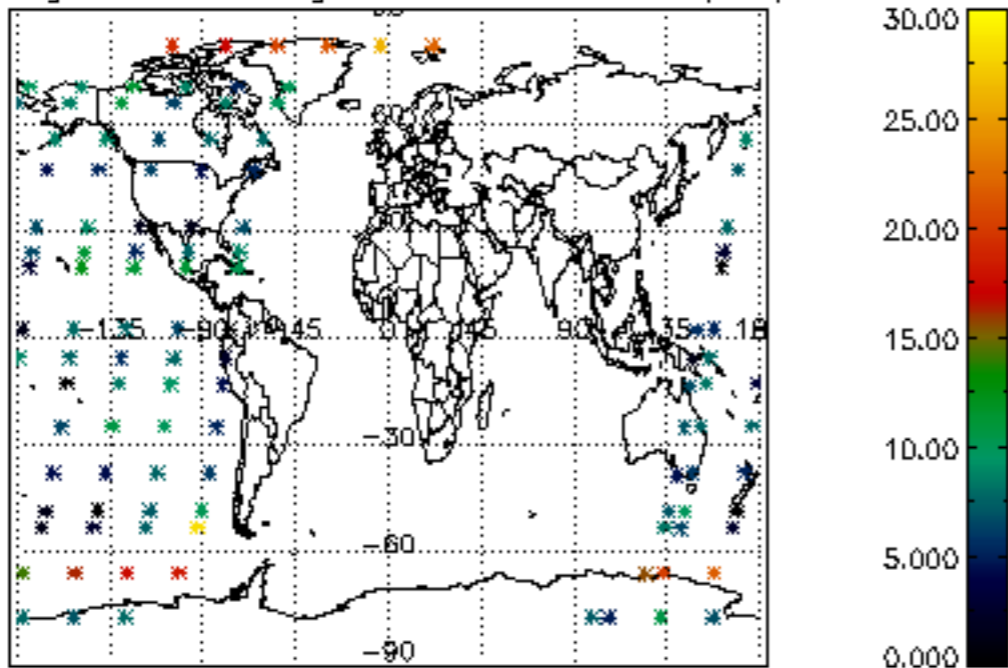
Percentage of cosmic ray hits per profile



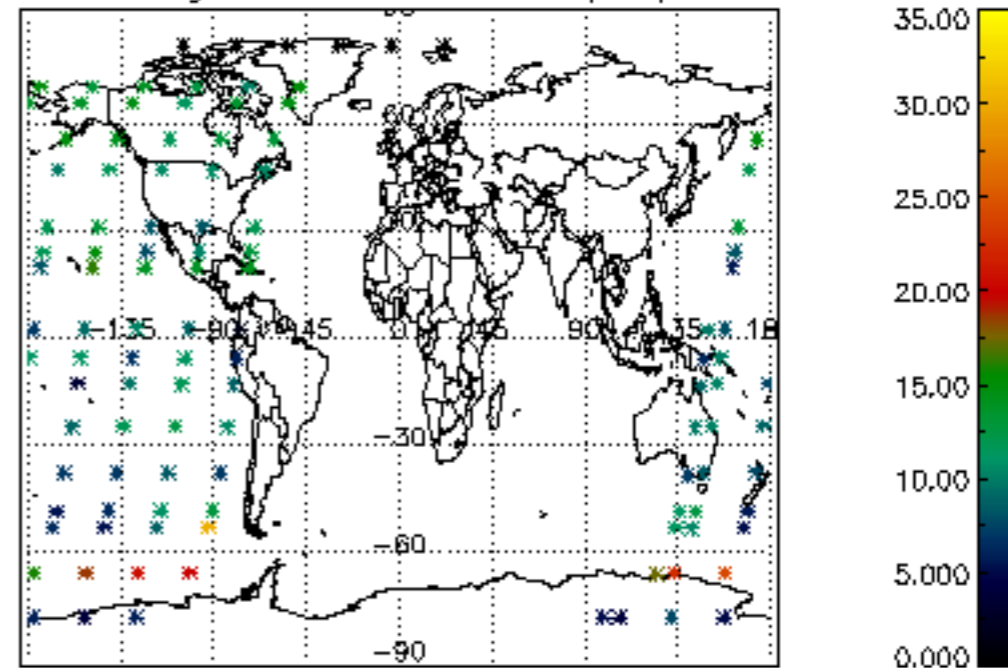
Percentage of datation errors per profile

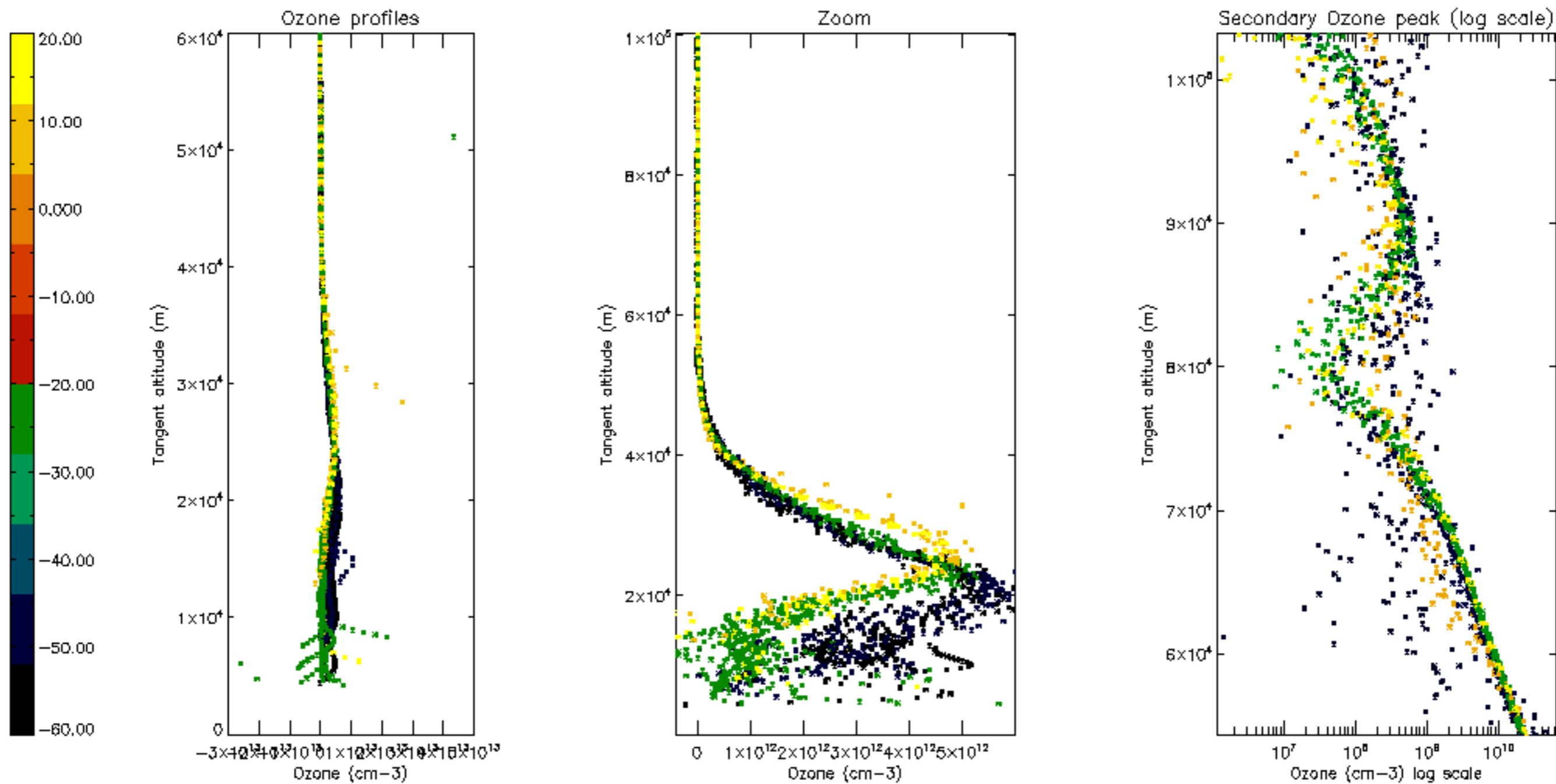


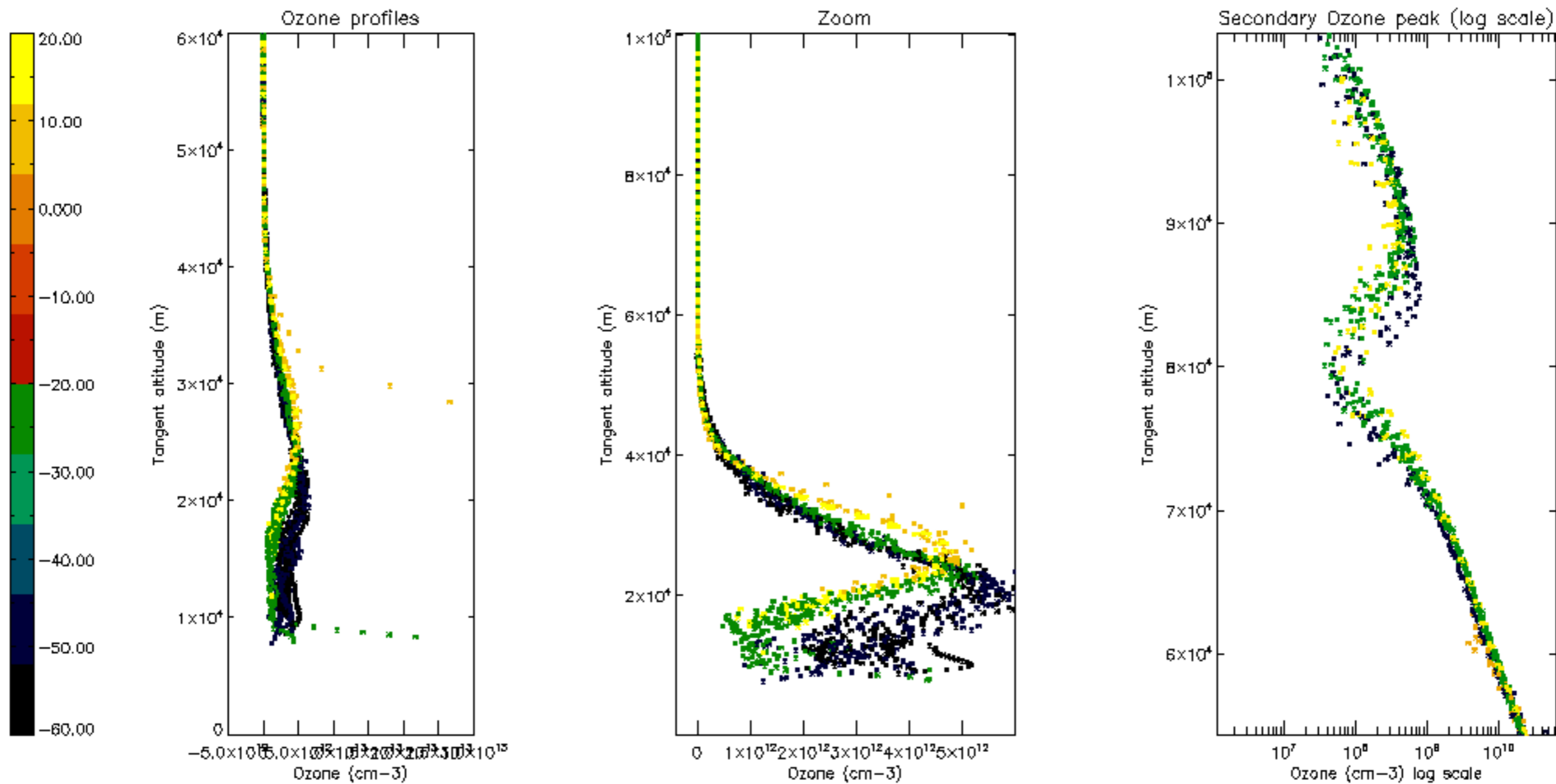
Percentage of star falling outside central band per profile

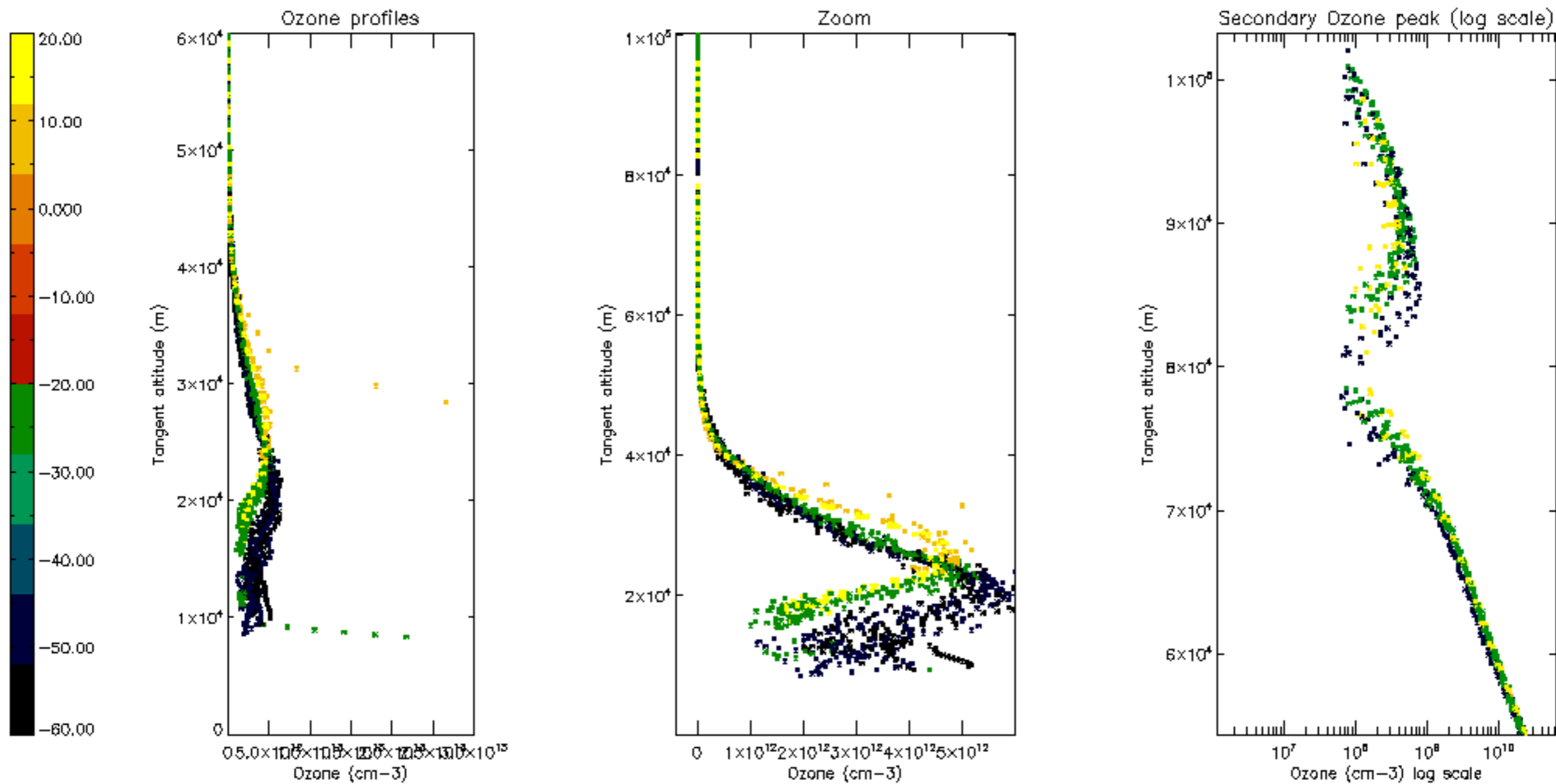


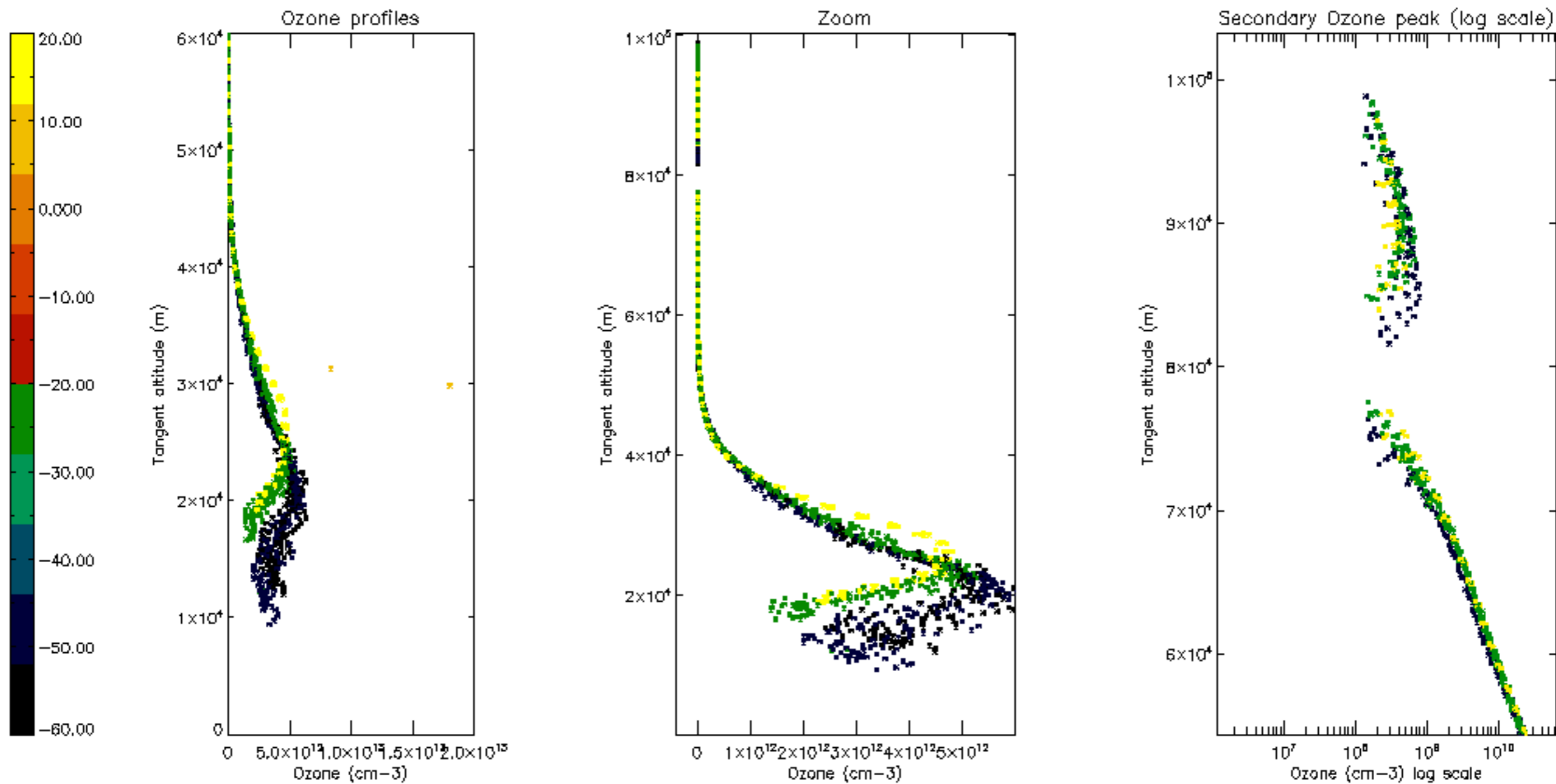
Percentage of saturation errors per profile

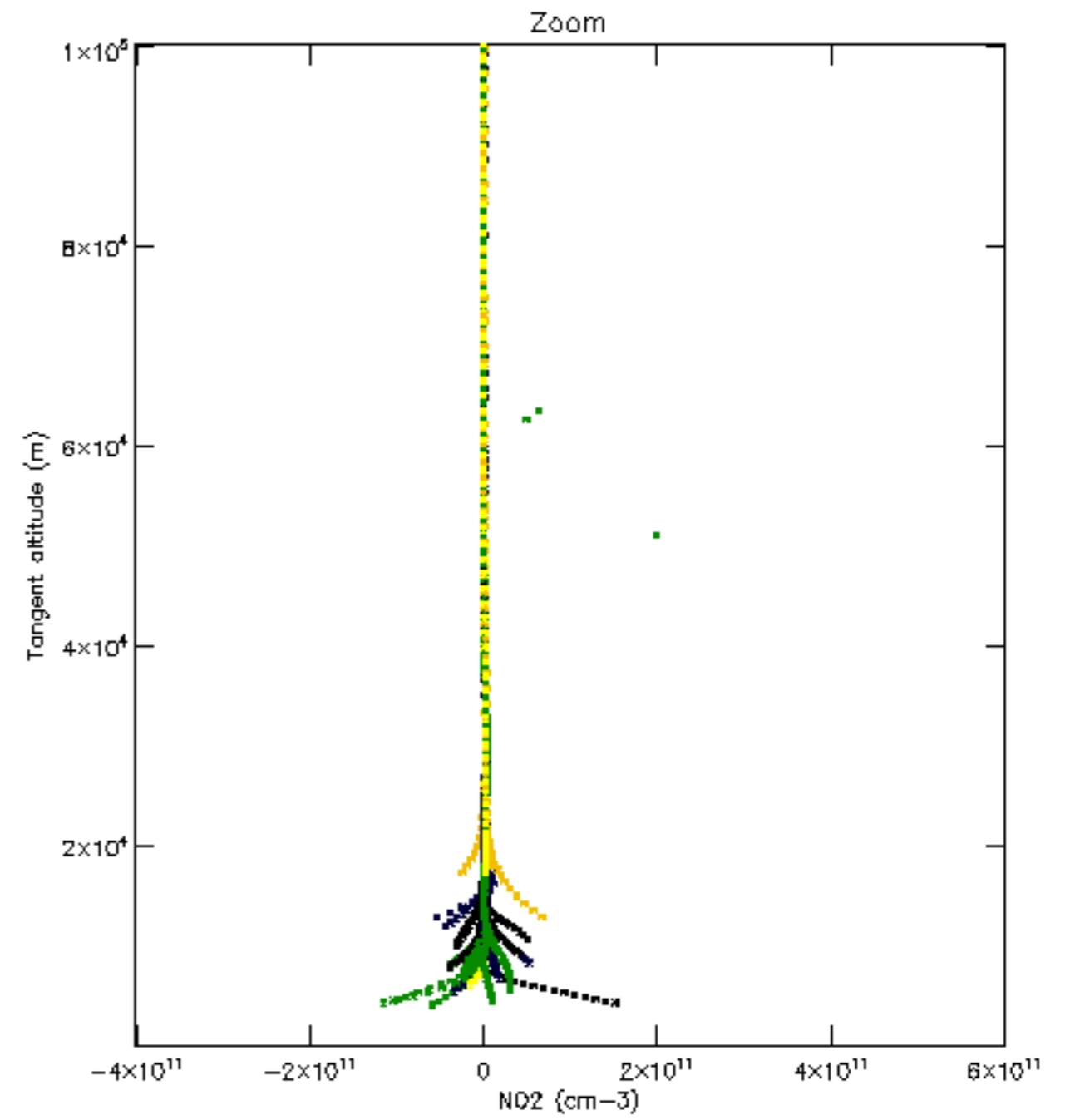
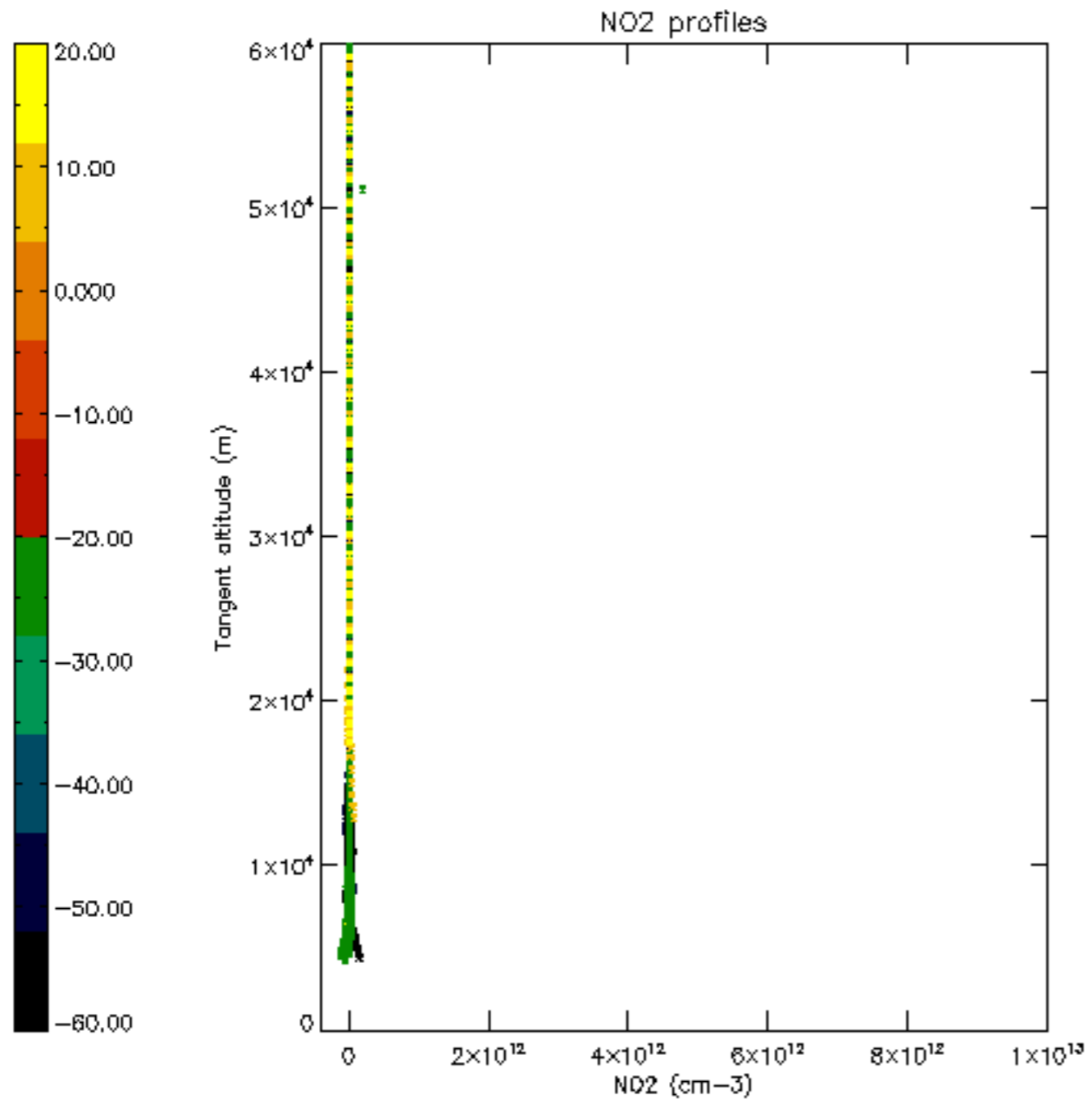


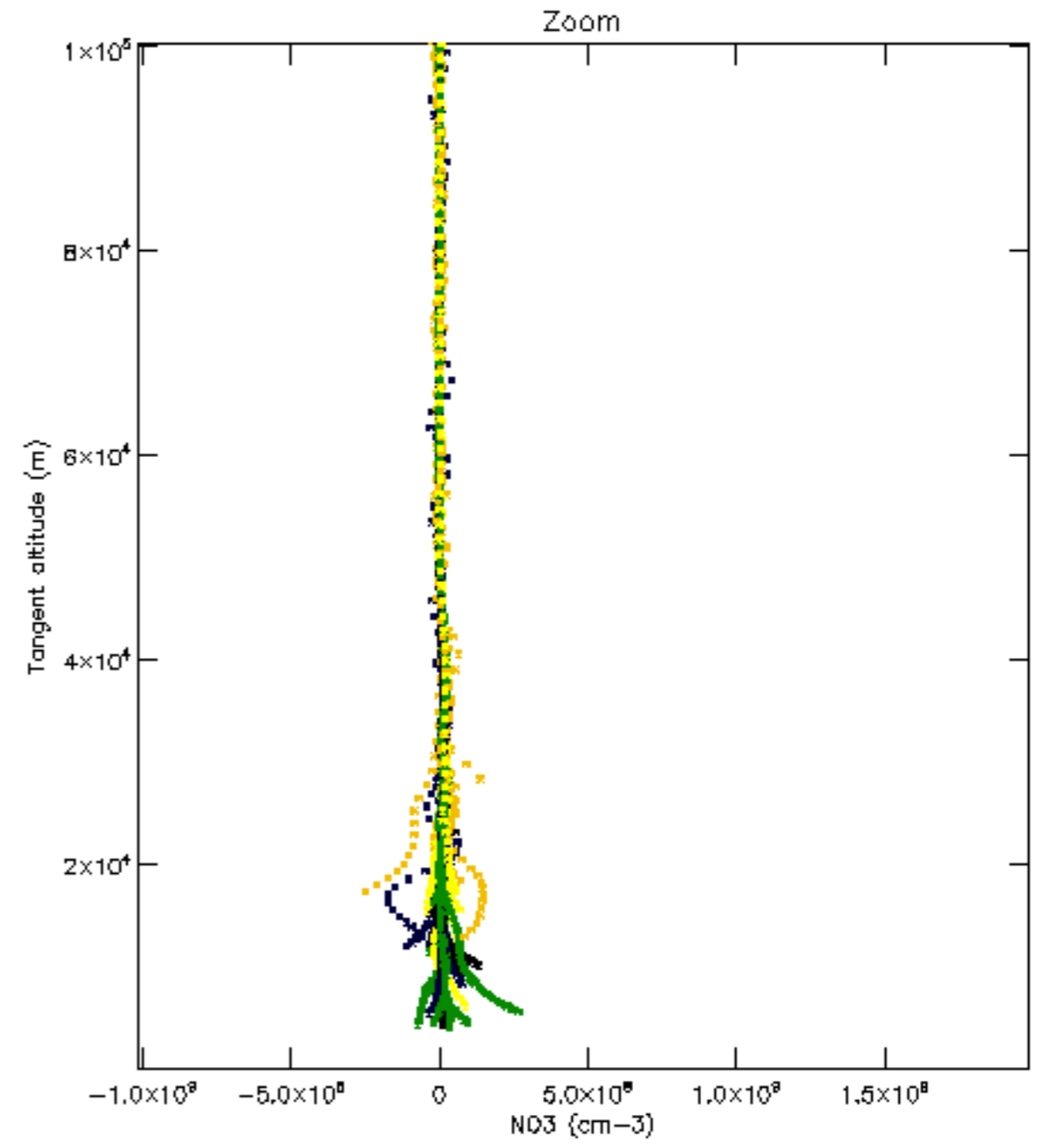
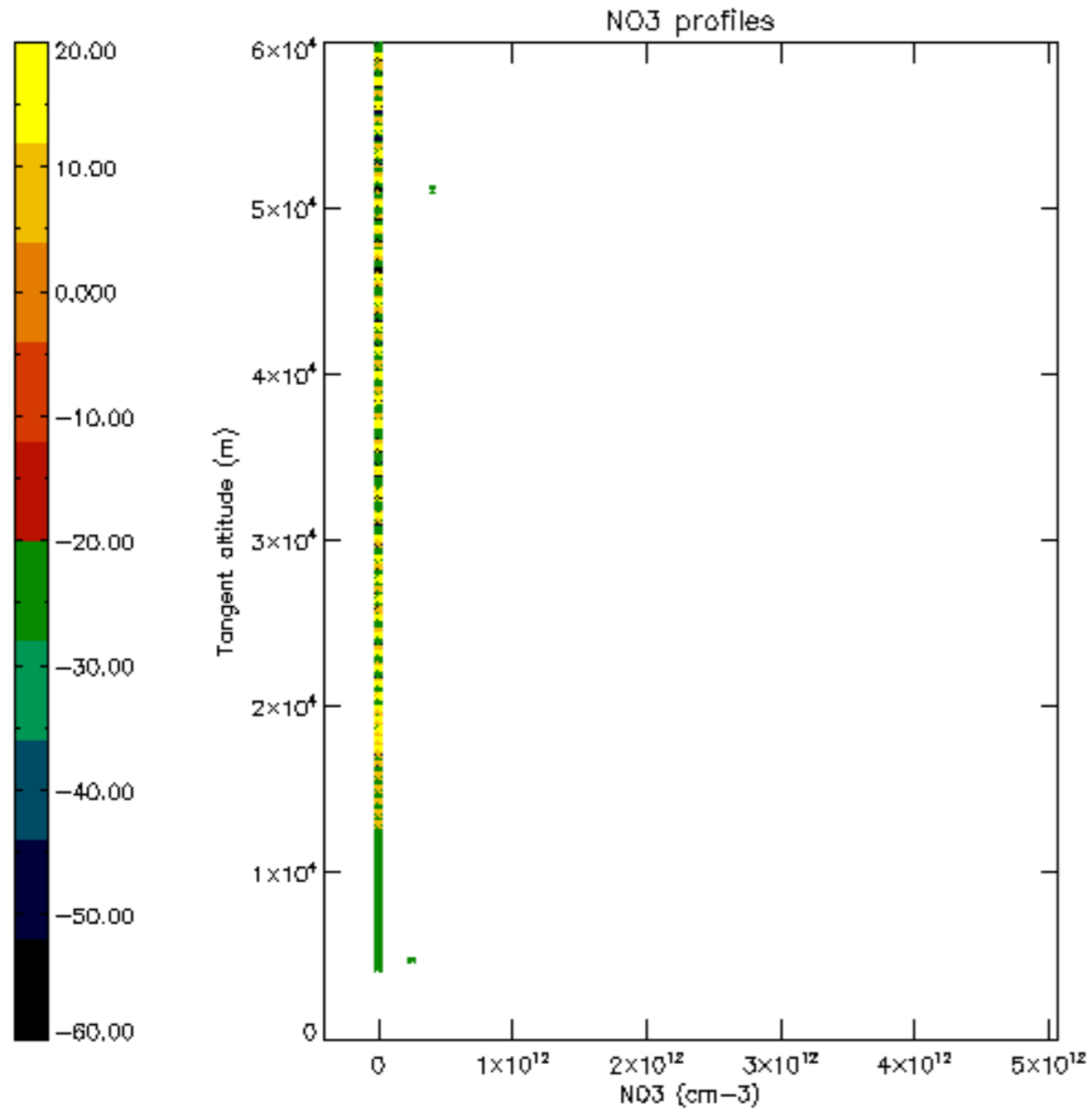


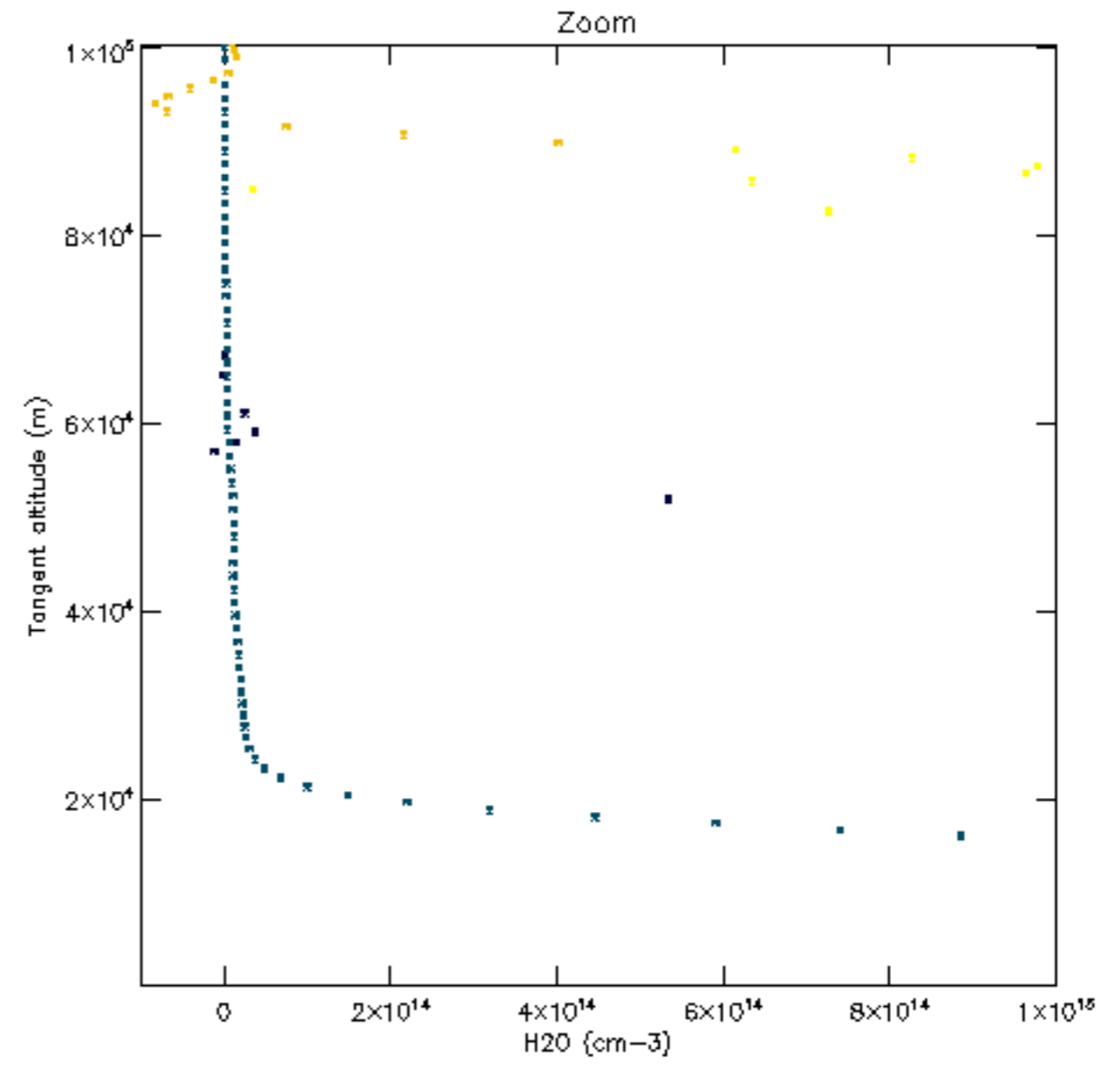
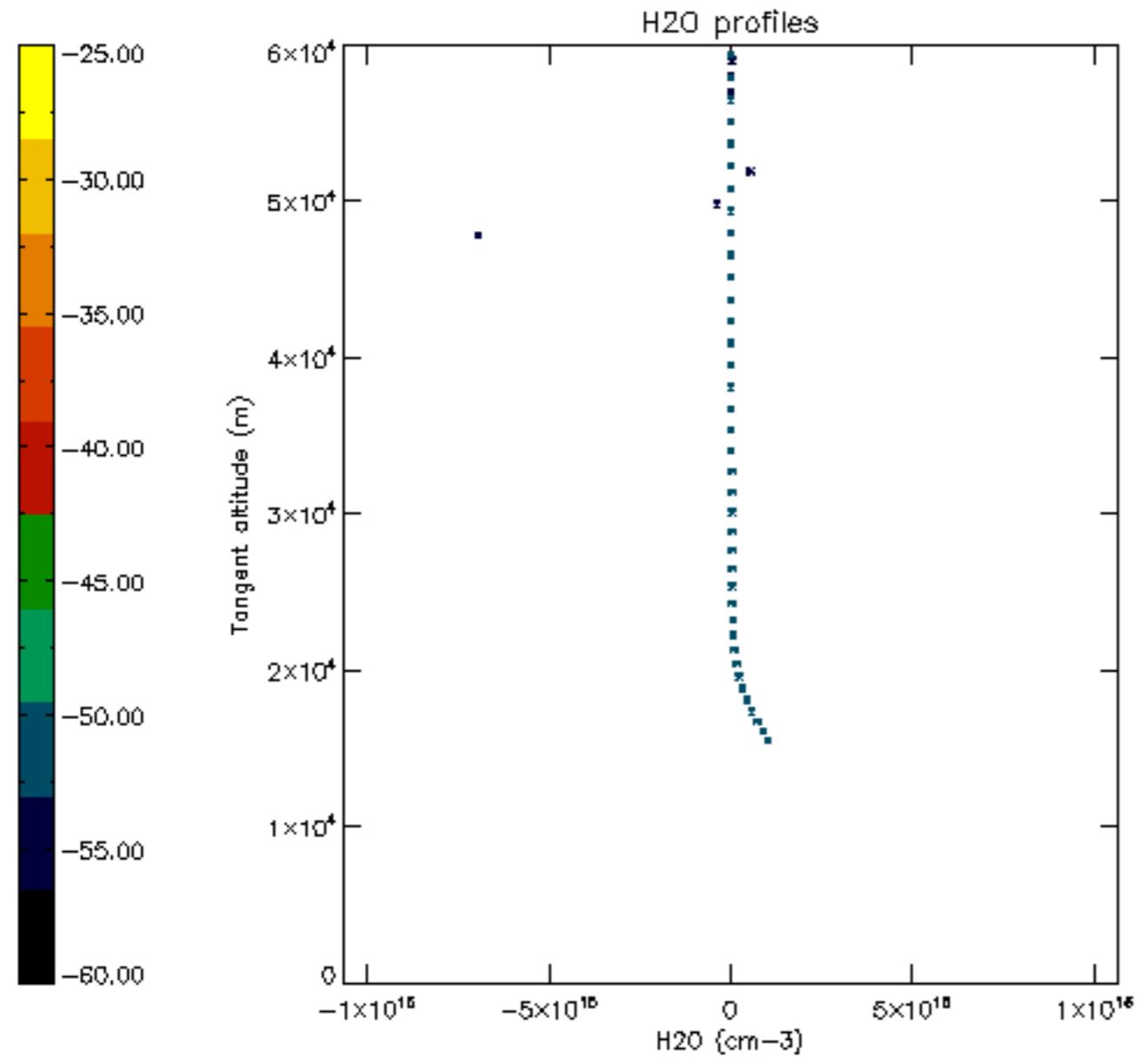


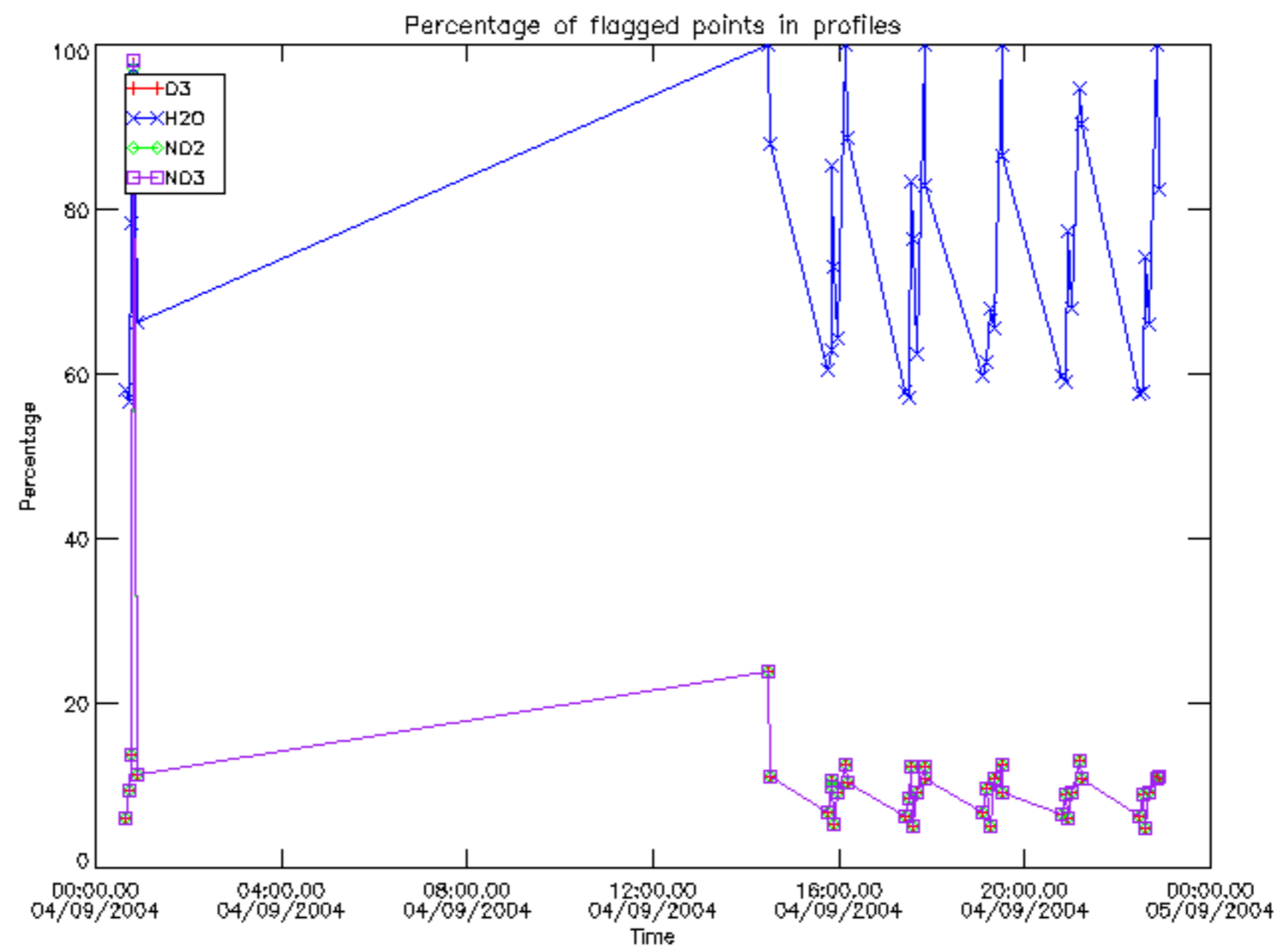




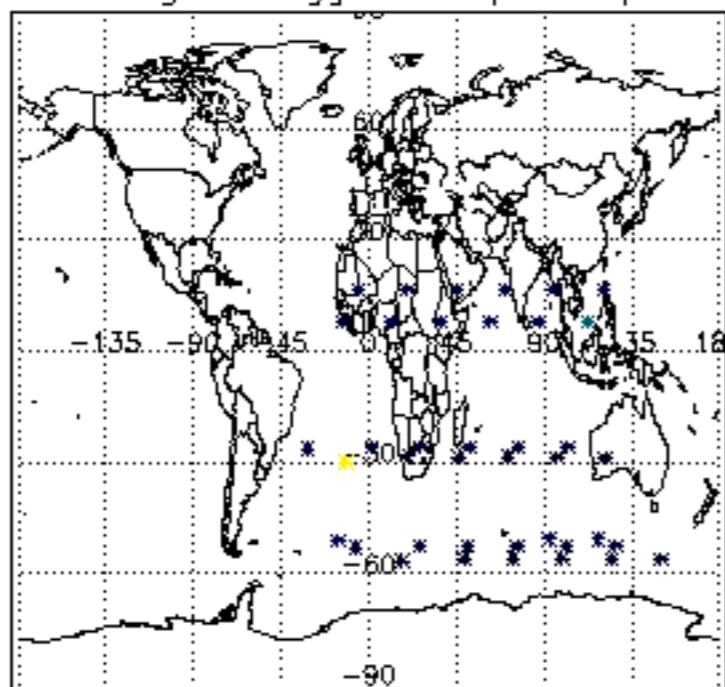




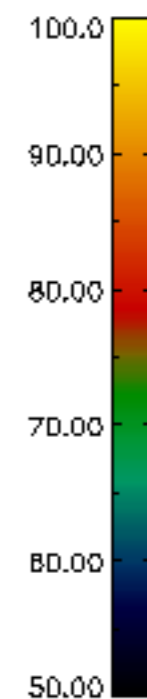
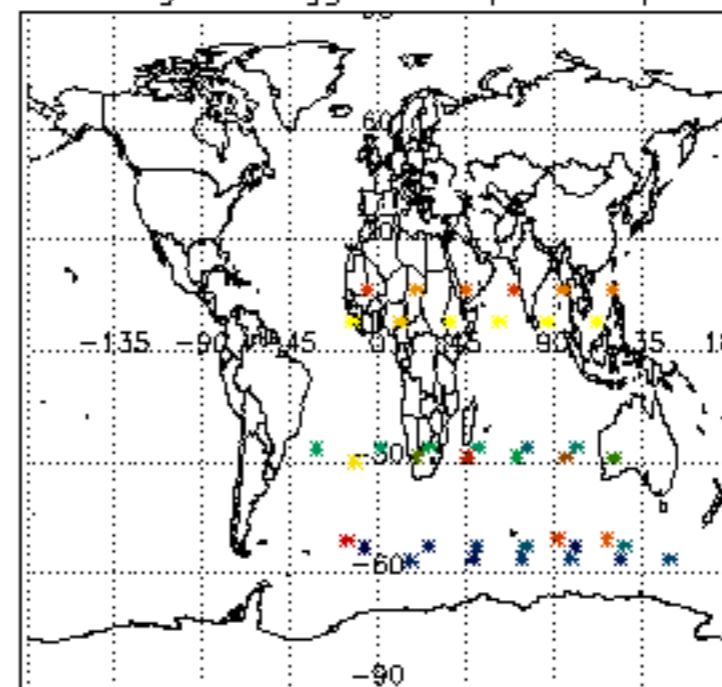




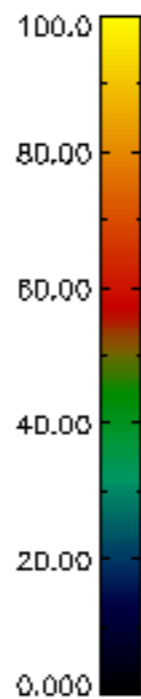
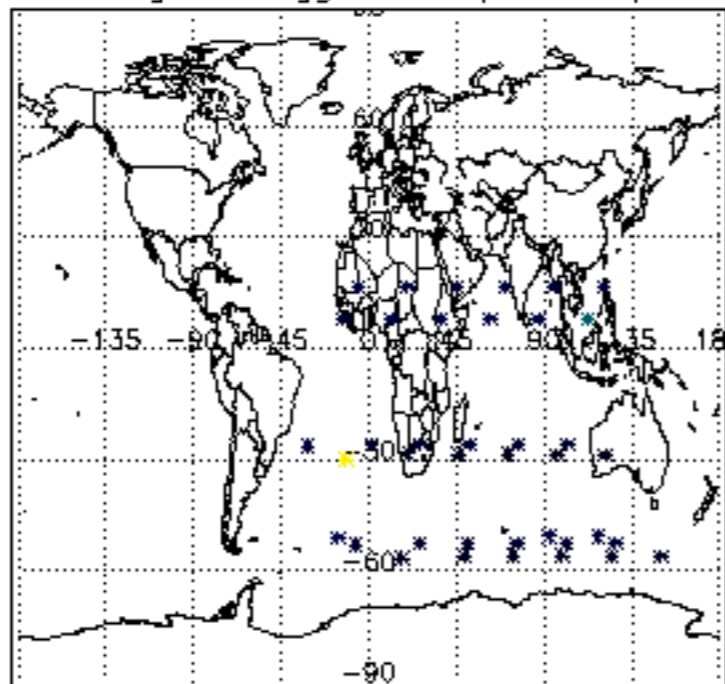
Percentage of flagged data per D3 profile



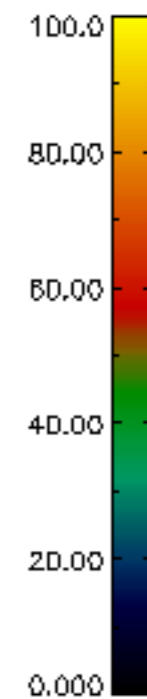
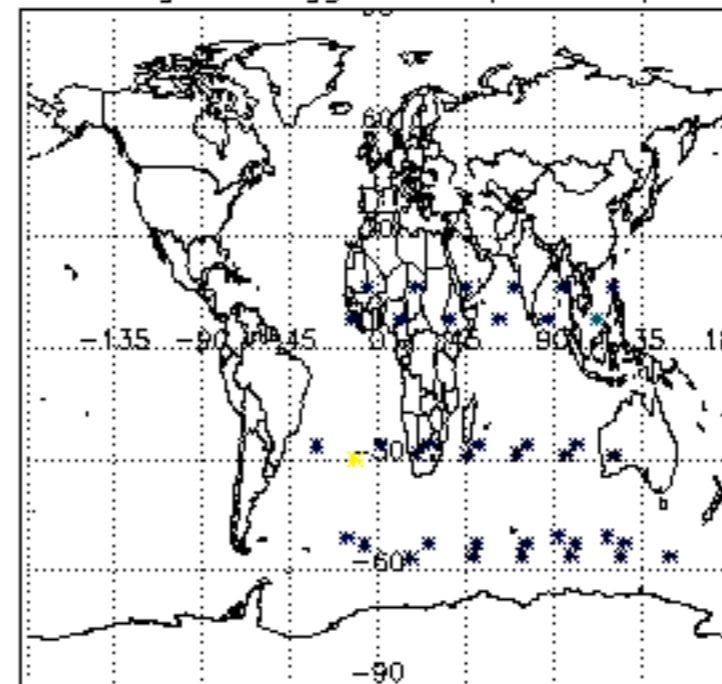
Percentage of flagged data per H2O profile

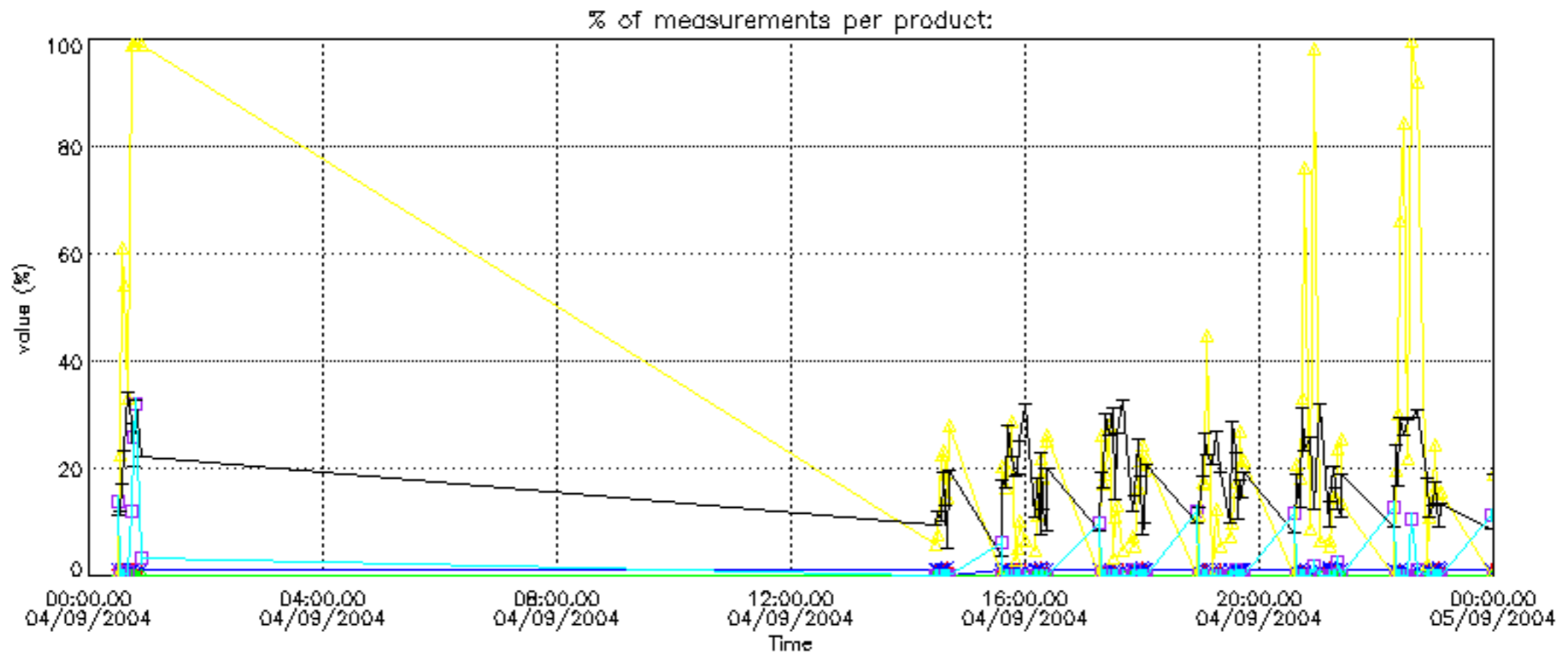


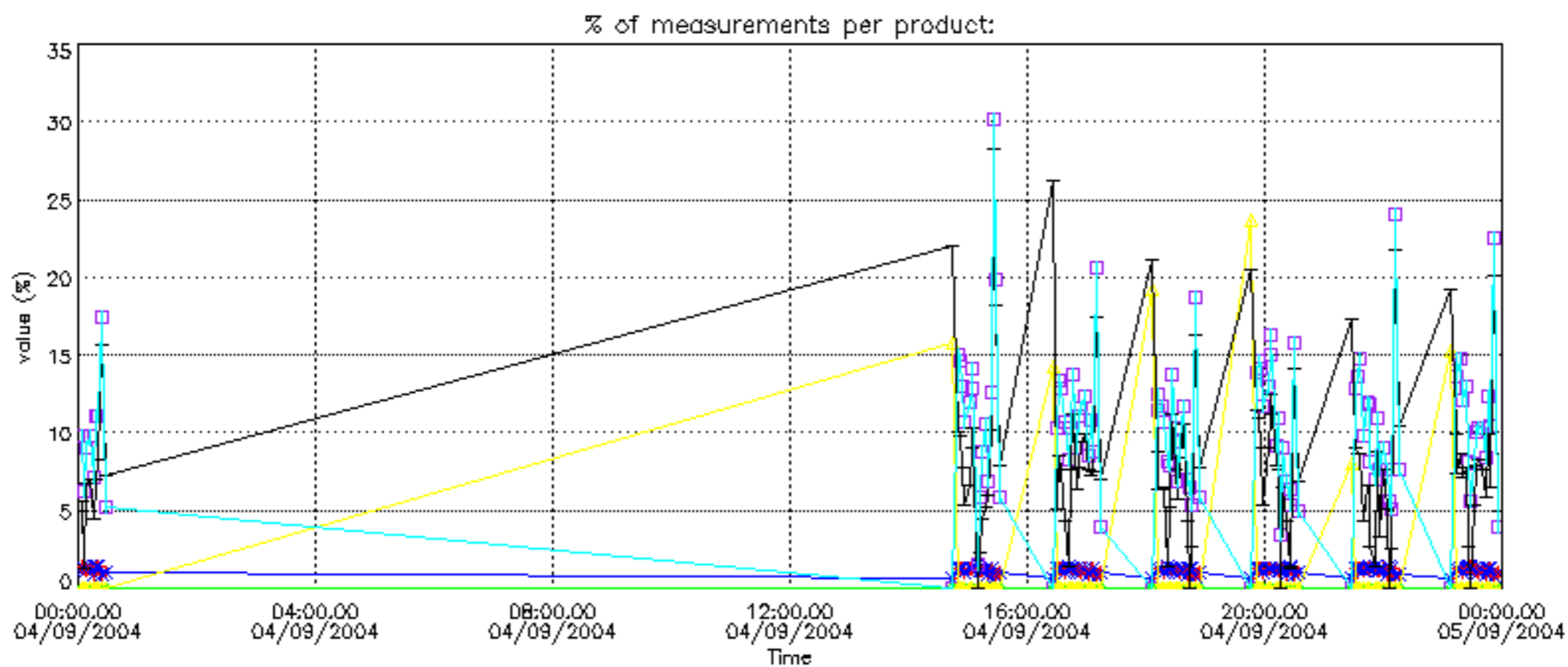
Percentage of flagged data per NO2 profile



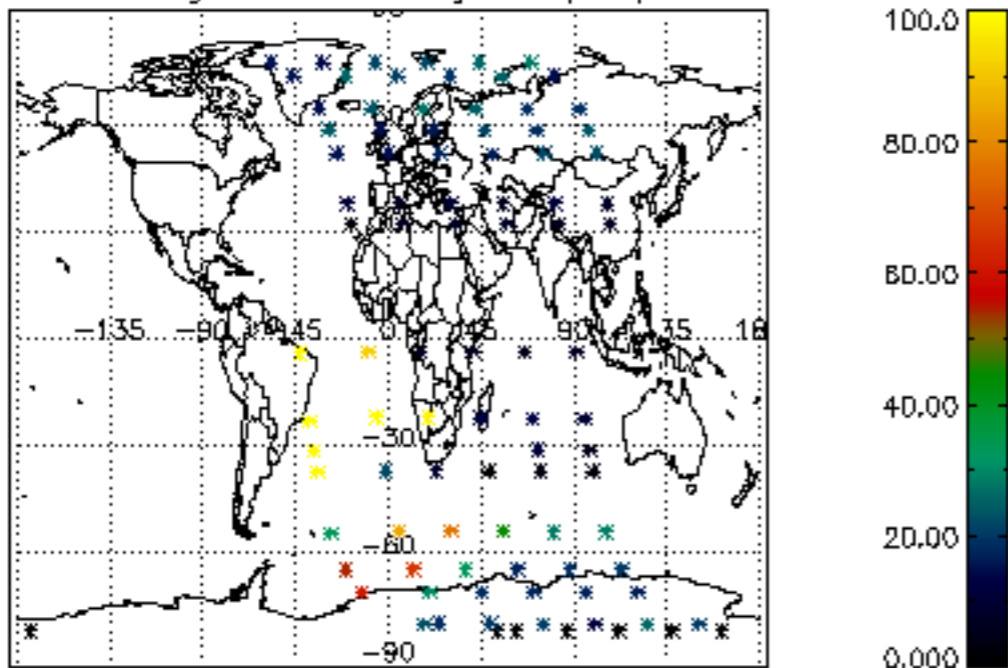
Percentage of flagged data per NO3 profile



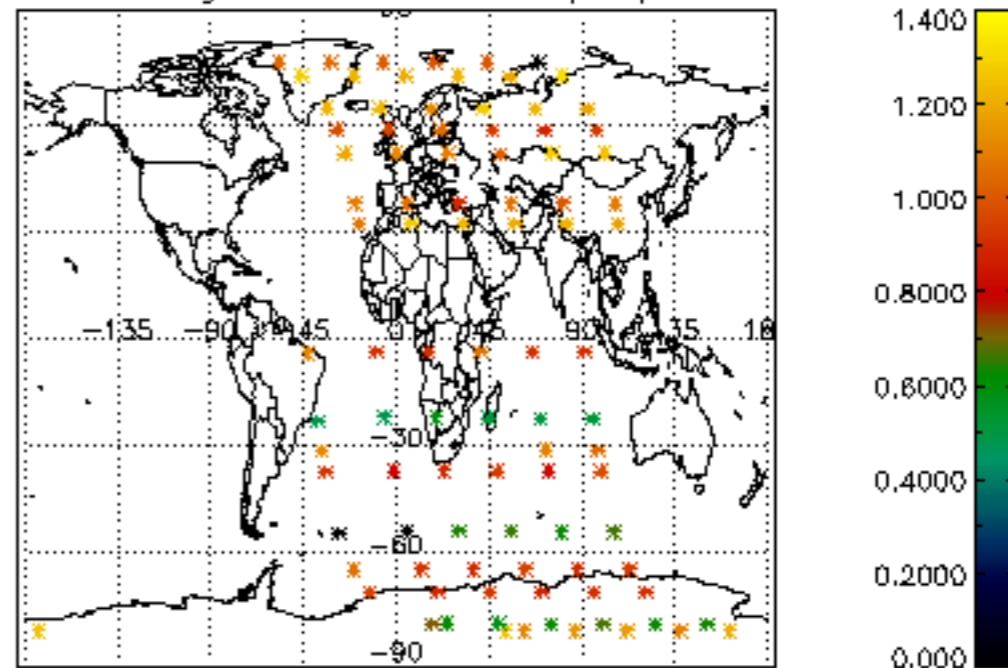




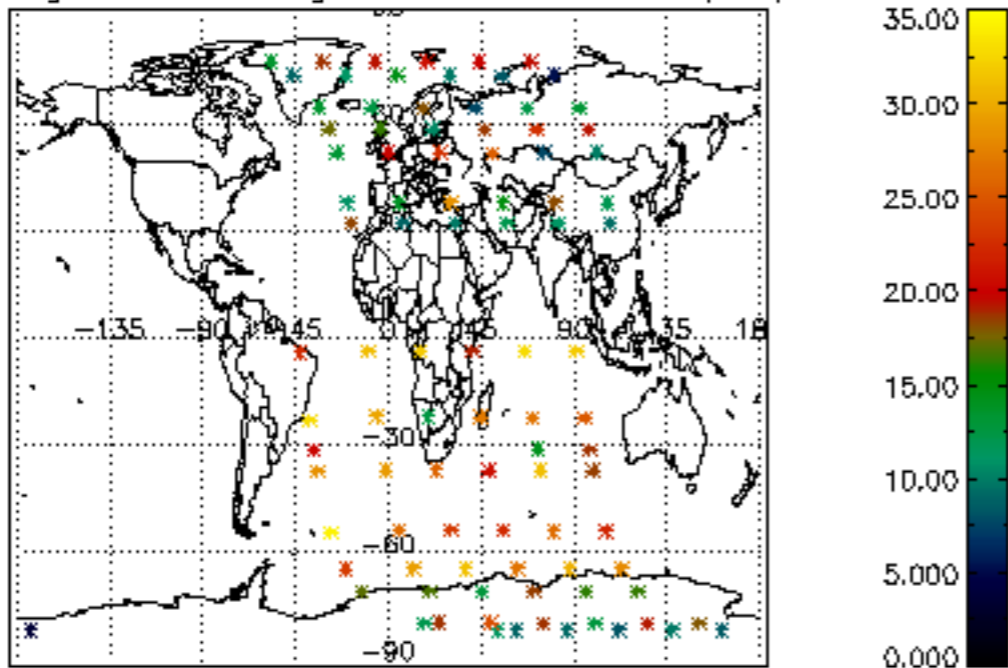
Percentage of cosmic ray hits per profile



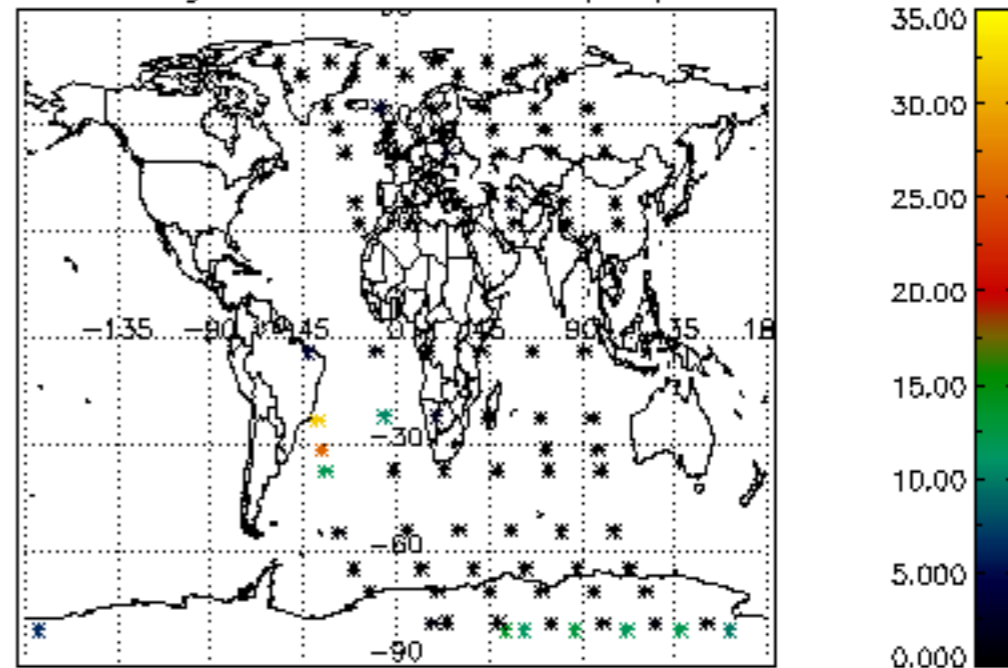
Percentage of datation errors per profile



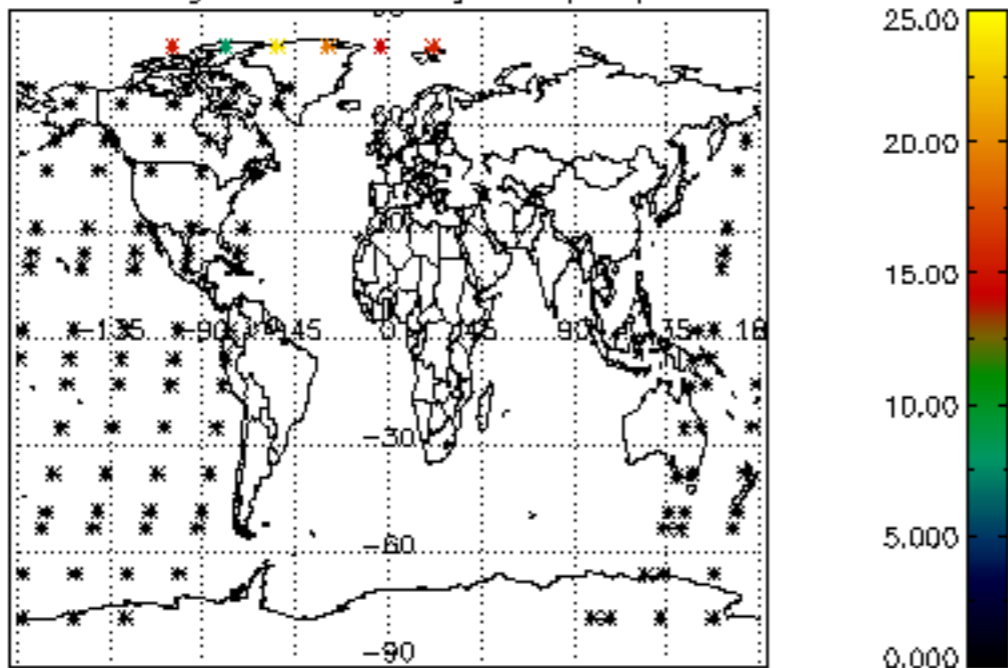
Percentage of star falling outside central band per profile



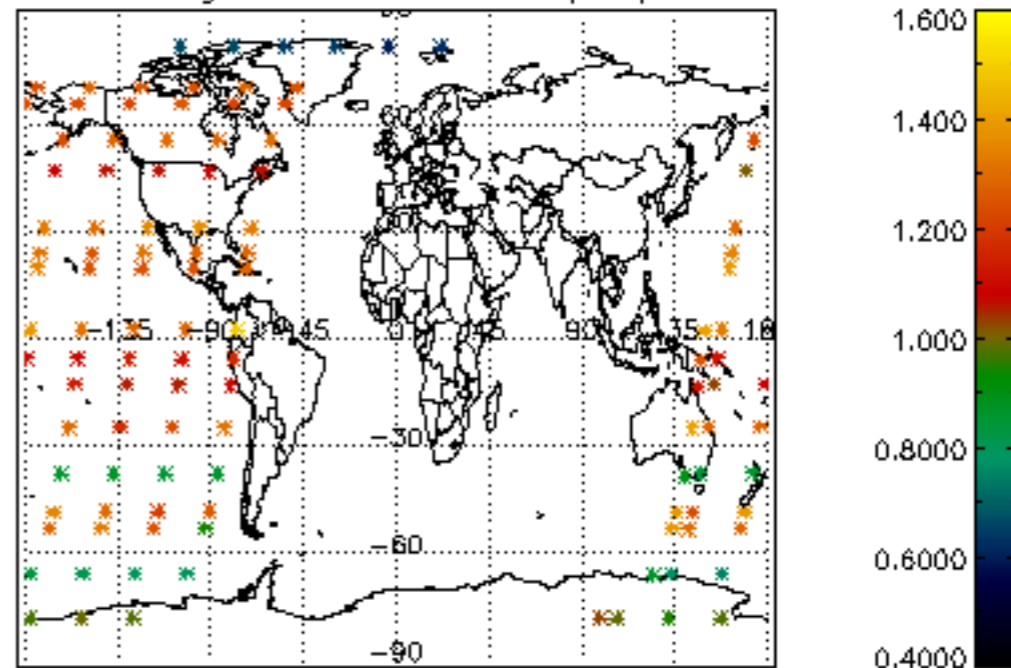
Percentage of saturation errors per profile



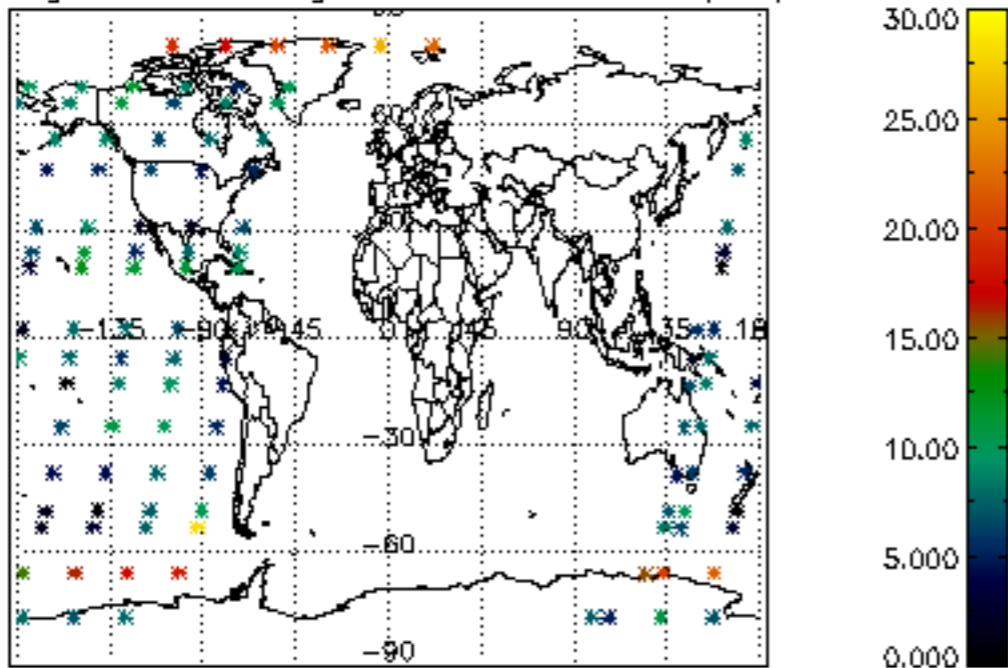
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

