

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	18APR2013 11:25:35
Data source version	GOMOS/6.01
Start time of products	05-10-2005 (05OCT2005 00:00:00)
Stop time of products	06-10-2005 (06OCT2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	252
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

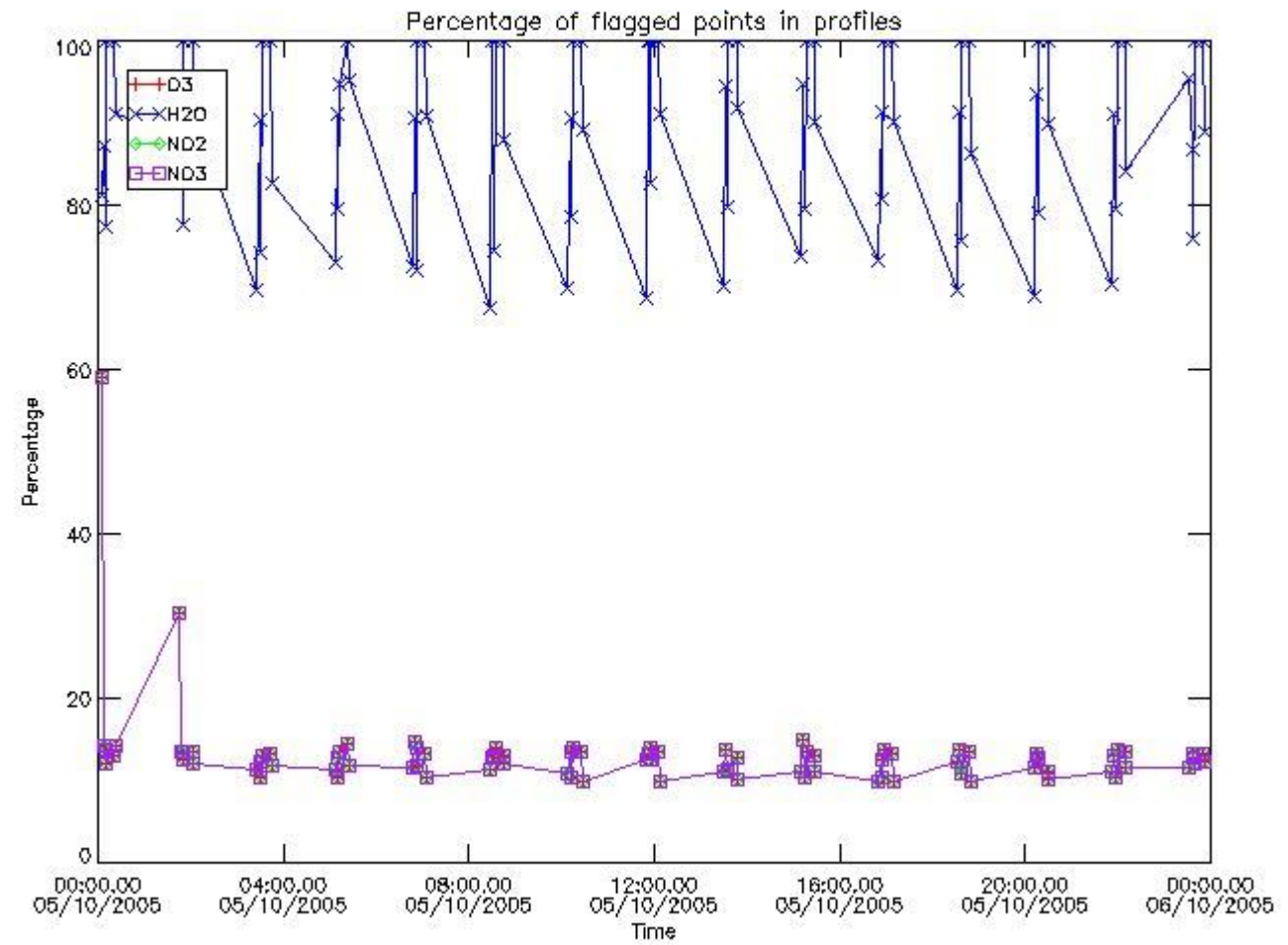
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20051005_000431_000000462041_00216_18807_7325.N1	05-OCT-2005 00:04:31	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	18807	No
2	GOM_NL__2PRFIN20051005_000747_000000402041_00216_18807_7326.N1	05-OCT-2005 00:07:47	Dark	39.500	46	Del Vel	1.9540	10600.	79	18807	No
3	GOM_NL__2PRFIN20051005_000922_000000432041_00217_18808_7309.N1	05-OCT-2005 00:09:22	Dark	42.500	41	Eps Car	1.8600	4100.0	85	18808	No
4	GOM_NL__2PRFIN20051005_001050_000000372041_00217_18808_7310.N1	05-OCT-2005 00:10:50	Dark	37.000	29	Bet Car	1.6720	10200.	74	18808	No
5	GOM_NL__2PRFIN20051005_002135_000000392041_00217_18808_7311.N1	05-OCT-2005 00:21:35	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	18808	No
6	GOM_NL__2PRFIN20051005_002302_000000402041_00217_18808_7312.N1	05-OCT-2005 00:23:02	Dark	39.500	9	Alp Eri	0.45300	24000.	79	18808	No
7	GOM_NL__2PRFIN20051005_002818_000000402041_00217_18808_7313.N1	05-OCT-2005 00:28:18	Straylight	40.000	84	Alp Phe	2.3970	4500.0	80	18808	No
8	GOM_NL__2PRFIN20051005_003252_000000442041_00217_18808_7314.N1	05-OCT-2005 00:32:52	Straylight	44.000	18	24Alp PsA	1.1660	9700.0	88	18808	No
9	GOM_NL__2PRFIN20051005_004513_000000372041_00217_18808_7315.N1	05-OCT-2005 00:45:13	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	18808	No
10	GOM_NL__2PRFIN20051005_004849_000000362041_00217_18808_7316.N1	05-OCT-2005 00:48:49	Bright	35.500	93	53Bet Peg	2.5200	3100.0	71	18808	No
11	GOM_NL__2PRFIN20051005_005914_000000372041_00217_18808_7317.N1	05-OCT-2005 00:59:14	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	18808	No
12	GOM_NL__2PRFIN20051005_010609_000000352041_00217_18808_7318.N1	05-OCT-2005 01:06:09	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	18808	No
13	GOM_NL__2PRFIN20051005_010829_000000382041_00217_18808_7319.N1	05-OCT-2005 01:08:29	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	18808	No
14	GOM_NL__2PRFIN20051005_011412_000000362041_00217_18808_7320.N1	05-OCT-2005 01:14:12	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	18808	No
15	GOM_NL__2PRFIN20051005_011543_000000362041_00217_18808_7321.N1	05-OCT-2005 01:15:43	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	18808	No
16	GOM_NL__2PRFIN20051005_011859_000000522041_00217_18808_7322.N1	05-OCT-2005 01:18:59	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	18808	No
17	GOM_NL__2PRFIN20051005_012623_000000352041_00217_18808_7323.N1	05-OCT-2005 01:26:23	Bright	34.500	51	41Gam1Leo	2.0100	4500.0	69	18808	No
18	GOM_NL__2PRFIN20051005_012846_000000352041_00217_18808_7324.N1	05-OCT-2005 01:28:46	Bright	35.000	22	32Alp Leo	1.3600	15200.	70	18808	No
19	GOM_NL__2PRFIN20051005_014507_000000402041_00217_18808_7325.N1	05-OCT-2005 01:45:07	Dark	40.000	65	Lam Vel	2.2040	4400.0	80	18808	No
20	GOM_NL__2PRFIN20051005_014823_000000382041_00217_18808_7326.N1	05-OCT-2005 01:48:23	Dark	38.000	46	Del Vel	1.9540	10600.	76	18808	No
21	GOM_NL__2PRFIN20051005_014958_000000412041_00218_18809_7329.N1	05-OCT-2005 01:49:58	Dark	40.500	41	Eps Car	1.8600	4100.0	81	18809	No
22	GOM_NL__2PRFIN20051005_015126_000000382041_00218_18809_7330.N1	05-OCT-2005 01:51:26	Dark	38.000	29	Bet Car	1.6720	10200.	76	18809	No
23	GOM_NL__2PRFIN20051005_020211_000000382041_00218_18809_7331.N1	05-OCT-2005 02:02:11	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	18809	No
24	GOM_NL__2PRFIN20051005_020339_000000432041_00218_18809_7332.N1	05-OCT-2005 02:03:39	Dark	42.500	9	Alp Eri	0.45300	24000.	85	18809	No
25	GOM_NL__2PRFIN20051005_020854_000000452041_00218_18809_7333.N1	05-OCT-2005 02:08:54	Straylight	45.000	84	Alp Phe	2.3970	4500.0	90	18809	No
26	GOM_NL__2PRFIN20051005_021328_000000412041_00218_18809_7334.N1	05-OCT-2005 02:13:28	Straylight	41.000	18	24Alp PsA	1.1660	9700.0	82	18809	No
27	GOM_NL__2PRFIN20051005_022549_000000372041_00218_18809_7335.N1	05-OCT-2005 02:25:49	Bright	37.000	90	54Alp Peg	2.4870	11000.	74	18809	No
28	GOM_NL__2PRFIN20051005_022925_000000392041_00218_18809_7336.N1	05-OCT-2005 02:29:25	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	18809	No
29	GOM_NL__2PRFIN20051005_023950_000000352041_00218_18809_7337.N1	05-OCT-2005 02:39:50	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	18809	No
30	GOM_NL__2PRFIN20051005_024645_000000332041_00218_18809_7338.N1	05-OCT-2005 02:46:45	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	18809	No
31	GOM_NL__2PRFIN20051005_024905_000000372041_00218_18809_7339.N1	05-OCT-2005 02:49:05	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	18809	No
32	GOM_NL__2PRFIN20051005_025448_000000362041_00218_18809_7340.N1	05-OCT-2005 02:54:48	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	18809	No
33	GOM_NL__2PRFIN20051005_025619_000000342041_00218_18809_7341.N1	05-OCT-2005 02:56:19	Bright	34.000	82	48Bet UMa	2.3650	10600.	68	18809	No
34	GOM_NL__2PRFIN20051005_025935_000000342041_00218_18809_7342.N1	05-OCT-2005 02:59:35	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	18809	No
35	GOM_NL__2PRFIN20051005_030659_000000352041_00218_18809_7343.N1	05-OCT-2005 03:06:59	Bright	34.500	51	41Gam1Leo	2.0100	4500.0	69	18809	No
36	GOM_NL__2PRFIN20051005_030923_000000352041_00218_18809_7344.N1	05-OCT-2005 03:09:23	Bright	34.500	22	32Alp Leo	1.3600	15200.	69	18809	No
37	GOM_NL__2PRFIN20051005_032544_000000452041_00218_18809_7345.N1	05-OCT-2005 03:25:44	Dark	45.000	65	Lam Vel	2.2040	4400.0	90	18809	No
38	GOM_NL__2PRFIN20051005_032859_000000422041_00218_18809_7346.N1	05-OCT-2005 03:28:59	Dark	41.500	46	Del Vel	1.9540	10600.	83	18809	No
39	GOM_NL__2PRFIN20051005_033035_000000492041_00219_18810_7329.N1	05-OCT-2005 03:30:35	Dark	49.000	41	Eps Car	1.8600	4100.0	98	18810	No
40	GOM_NL__2PRFIN20051005_033202_000000392041_00219_18810_7330.N1	05-OCT-2005 03:32:02	Dark	39.000	29	Bet Car	1.6720	10200.	78	18810	No
41	GOM_NL__2PRFIN20051005_034247_000000392041_00219_18810_7331.N1	05-OCT-2005 03:42:47	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	18810	No
42	GOM_NL__2PRFIN20051005_034415_000000442041_00219_18810_7332.N1	05-OCT-2005 03:44:15	Dark	43.500	9	Alp Eri	0.45300	24000.	87	18810	No

220	GOM_NL__2PRFIN20051005_205601_000000352041_00229_18820_7406.N1	05-OCT-2005 20:56:01	Bright	35.000	93	53Bet Peg	2.5200	3100.0	70	18820	No
221	GOM_NL__2PRFIN20051005_210628_000000372041_00229_18820_7407.N1	05-OCT-2005 21:06:28	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	18820	No
222	GOM_NL__2PRFIN20051005_211320_000000372041_00229_18820_7408.N1	05-OCT-2005 21:13:20	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	18820	No
223	GOM_NL__2PRFIN20051005_211543_000000362041_00229_18820_7409.N1	05-OCT-2005 21:15:43	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	18820	No
224	GOM_NL__2PRFIN20051005_212125_000000382041_00229_18820_7410.N1	05-OCT-2005 21:21:25	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	18820	No
225	GOM_NL__2PRFIN20051005_212256_000000362041_00229_18820_7411.N1	05-OCT-2005 21:22:56	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	18820	No
226	GOM_NL__2PRFIN20051005_212612_000000342041_00229_18820_7412.N1	05-OCT-2005 21:26:12	Bright	33.500	174	52Psi UMa	3.0040	4400.0	67	18820	No
227	GOM_NL__2PRFIN20051005_213337_000000352041_00229_18820_7413.N1	05-OCT-2005 21:33:37	Bright	35.000	51	41Gam1Leo	2.0100	4500.0	70	18820	No
228	GOM_NL__2PRFIN20051005_213601_000000362041_00229_18820_7414.N1	05-OCT-2005 21:36:01	Bright	36.000	22	32Alp Leo	1.3600	15200.	72	18820	No
229	GOM_NL__2PRFIN20051005_215224_000000512041_00229_18820_7415.N1	05-OCT-2005 21:52:24	Dark	51.000	65	Lam Vel	2.2040	4400.0	102	18820	No
230	GOM_NL__2PRFIN20051005_215539_000000402041_00229_18820_7416.N1	05-OCT-2005 21:55:39	Dark	39.500	46	Del Vel	1.9540	10600.	79	18820	No
231	GOM_NL__2PRFIN20051005_215714_000000502041_00230_18821_7400.N1	05-OCT-2005 21:57:14	Dark	49.500	41	Eps Car	1.8600	4100.0	99	18821	No
232	GOM_NL__2PRFIN20051005_215839_000000372041_00230_18821_7401.N1	05-OCT-2005 21:58:39	Dark	37.000	29	Bet Car	1.6720	10200.	74	18821	No
233	GOM_NL__2PRFIN20051005_220927_000000382041_00230_18821_7402.N1	05-OCT-2005 22:09:27	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	18821	No
234	GOM_NL__2PRFIN20051005_221054_000000452041_00230_18821_7403.N1	05-OCT-2005 22:10:54	Dark	44.500	9	Alp Eri	0.45300	24000.	89	18821	No
235	GOM_NL__2PRFIN20051005_221609_000000442041_00230_18821_7404.N1	05-OCT-2005 22:16:09	Straylight	44.000	84	Alp Phe	2.3970	4500.0	88	18821	No
236	GOM_NL__2PRFIN20051005_223302_000000352041_00230_18821_7405.N1	05-OCT-2005 22:33:02	Bright	35.000	90	54Alp Peg	2.4870	11000.	70	18821	No
237	GOM_NL__2PRFIN20051005_223637_000000372041_00230_18821_7406.N1	05-OCT-2005 22:36:37	Bright	36.500	93	53Bet Peg	2.5200	3100.0	73	18821	No
238	GOM_NL__2PRFIN20051005_224704_000000352041_00230_18821_7407.N1	05-OCT-2005 22:47:04	Bright	34.500	89	5Alp Cep	2.4510	8000.0	69	18821	No
239	GOM_NL__2PRFIN20051005_225356_000000382041_00230_18821_7408.N1	05-OCT-2005 22:53:56	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	18821	No
240	GOM_NL__2PRFIN20051005_225619_000000372041_00230_18821_7409.N1	05-OCT-2005 22:56:19	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	18821	No
241	GOM_NL__2PRFIN20051005_230201_000000372041_00230_18821_7410.N1	05-OCT-2005 23:02:01	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	18821	No
242	GOM_NL__2PRFIN20051005_230332_000000342041_00230_18821_7411.N1	05-OCT-2005 23:03:32	Bright	33.500	82	48Bet UMa	2.3650	10600.	67	18821	No
243	GOM_NL__2PRFIN20051005_230648_000000342041_00230_18821_7412.N1	05-OCT-2005 23:06:48	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	18821	No
244	GOM_NL__2PRFIN20051005_231413_000000352041_00230_18821_7413.N1	05-OCT-2005 23:14:13	Bright	34.500	51	41Gam1Leo	2.0100	4500.0	69	18821	No
245	GOM_NL__2PRFIN20051005_231637_000000372041_00230_18821_7414.N1	05-OCT-2005 23:16:37	Bright	37.000	22	32Alp Leo	1.3600	15200.	74	18821	No
246	GOM_NL__2PRFIN20051005_233300_000000452041_00230_18821_7415.N1	05-OCT-2005 23:33:00	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	18821	No
247	GOM_NL__2PRFIN20051005_233615_000000392041_00230_18821_7416.N1	05-OCT-2005 23:36:15	Dark	38.500	46	Del Vel	1.9540	10600.	77	18821	No
248	GOM_NL__2PRFIN20051005_233751_000000402041_00231_18822_7342.N1	05-OCT-2005 23:37:51	Dark	40.000	41	Eps Car	1.8600	4100.0	80	18822	No
249	GOM_NL__2PRFIN20051005_233915_000000432041_00231_18822_7343.N1	05-OCT-2005 23:39:15	Dark	42.500	29	Bet Car	1.6720	10200.	85	18822	No
250	GOM_NL__2PRFIN20051005_235003_000000392041_00231_18822_7344.N1	05-OCT-2005 23:50:03	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	18822	No
251	GOM_NL__2PRFIN20051005_235130_000000422041_00231_18822_7345.N1	05-OCT-2005 23:51:30	Dark	41.500	9	Alp Eri	0.45300	24000.	83	18822	No
252	GOM_NL__2PRFIN20051005_235645_000000412041_00231_18822_7346.N1	05-OCT-2005 23:56:45	Straylight	40.500	84	Alp Phe	2.3970	4500.0	81	18822	No

3. Quality information per product

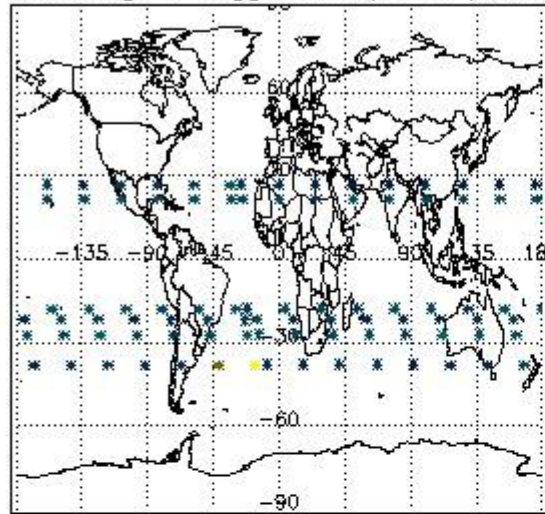
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

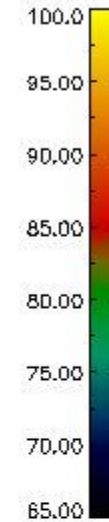
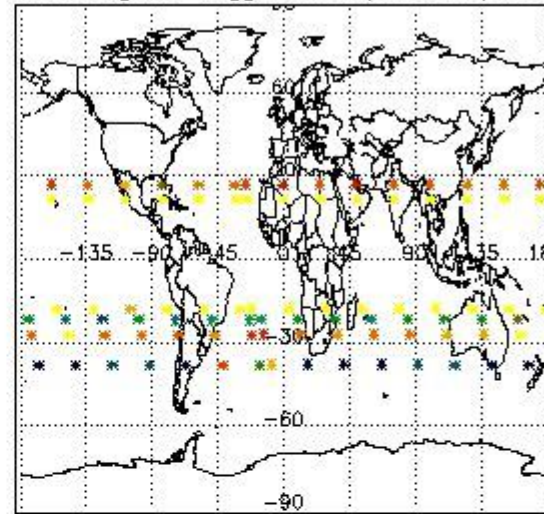


3.2 Plot quality information per product (world map)

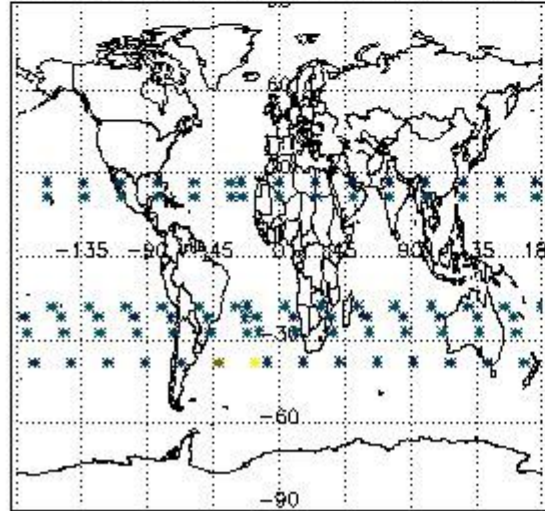
Percentage of flagged data per O3 profile



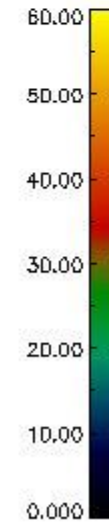
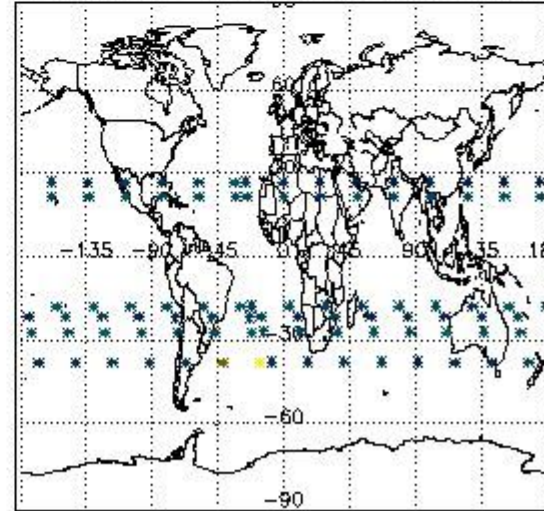
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

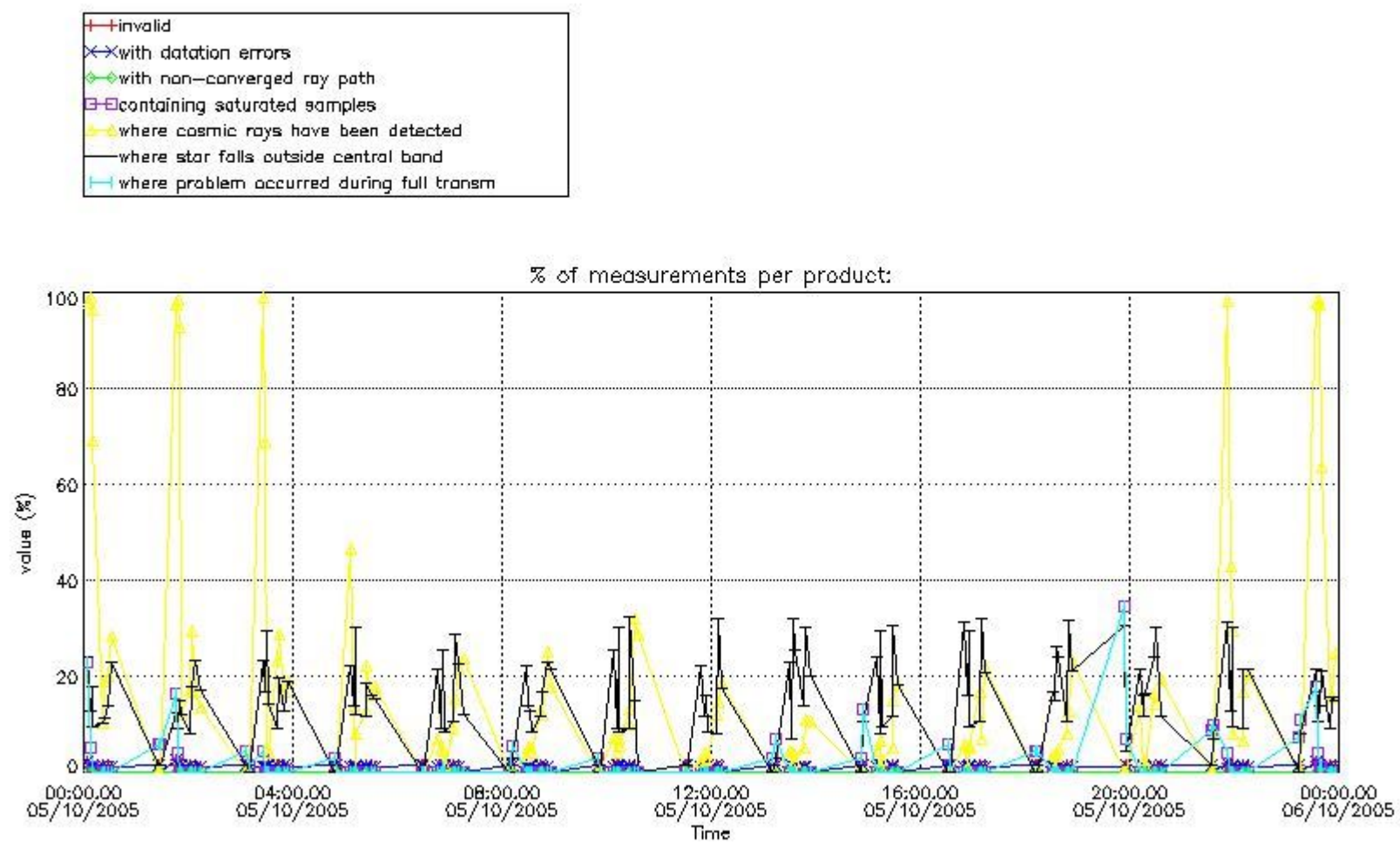


4. Level 1 quality information per product

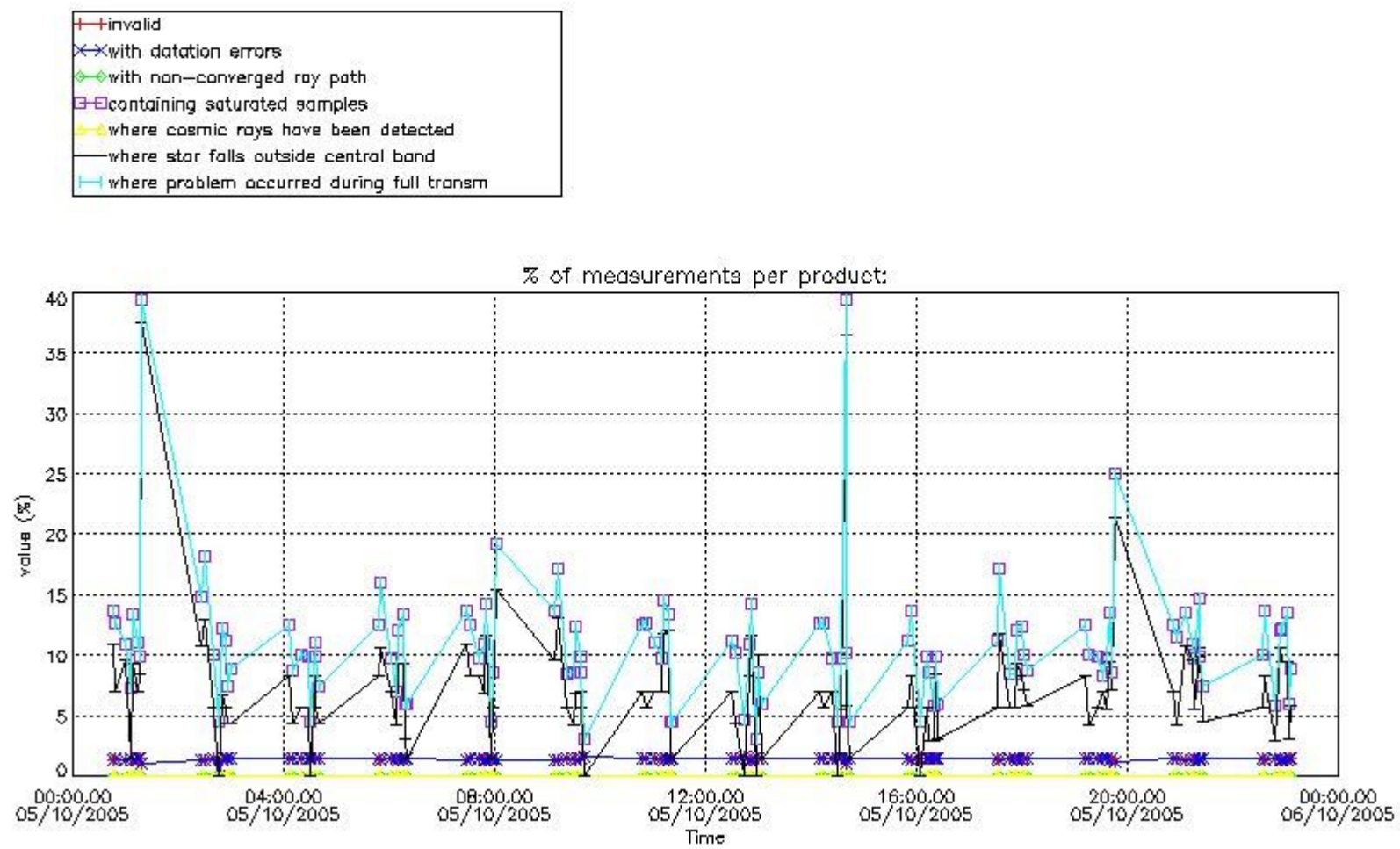
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



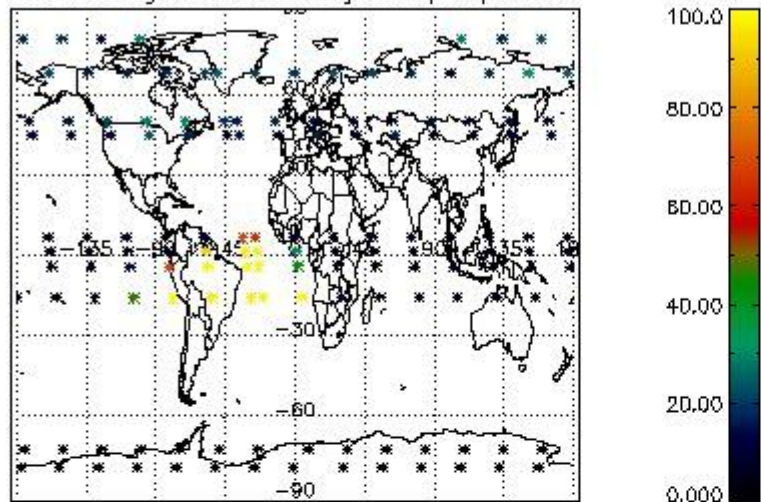
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



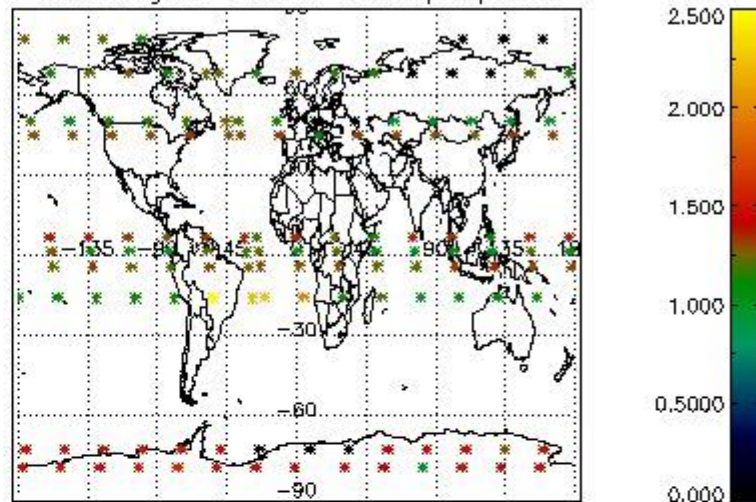
4.2 Plot quality information per product coming from level 1b processing (world map)

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

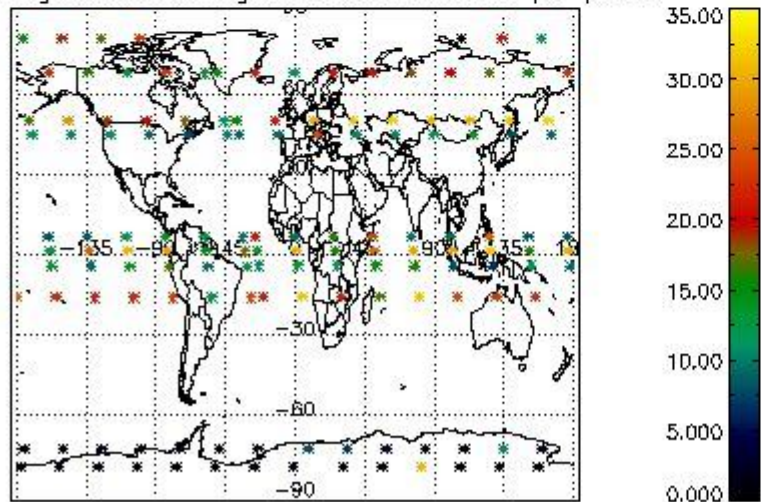
Percentage of cosmic ray hits per profile



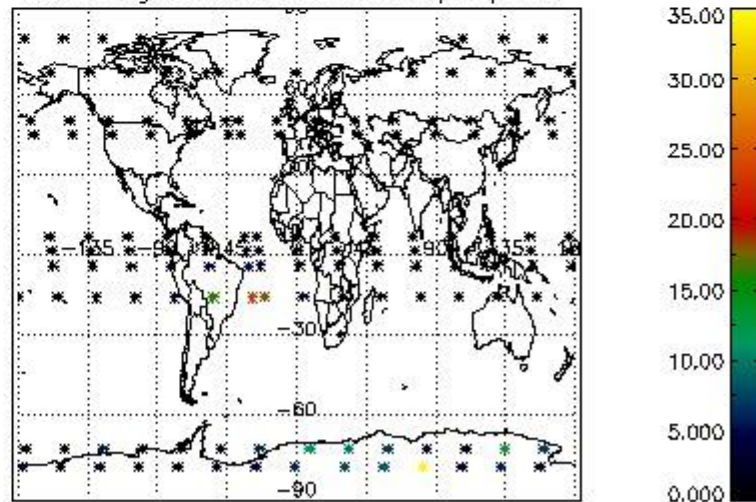
Percentage of datation errors per profile



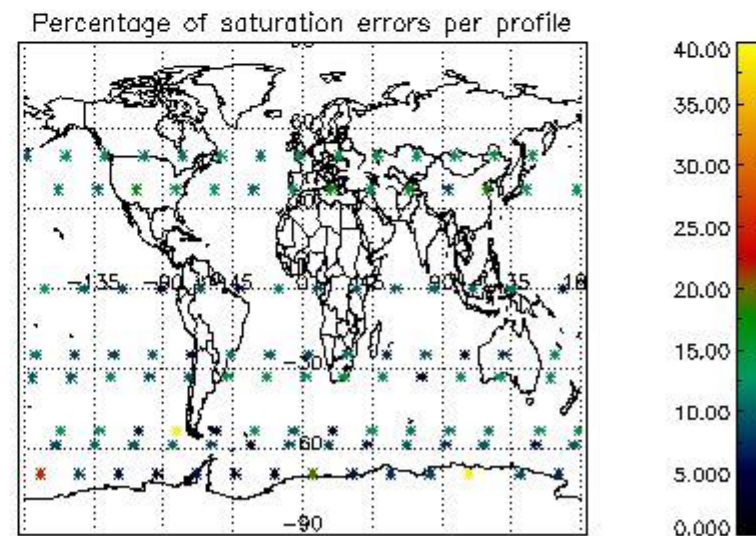
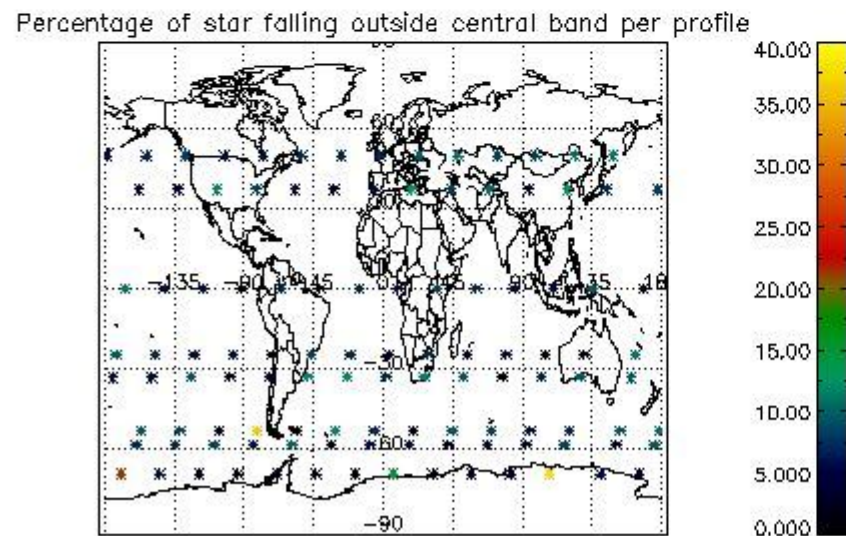
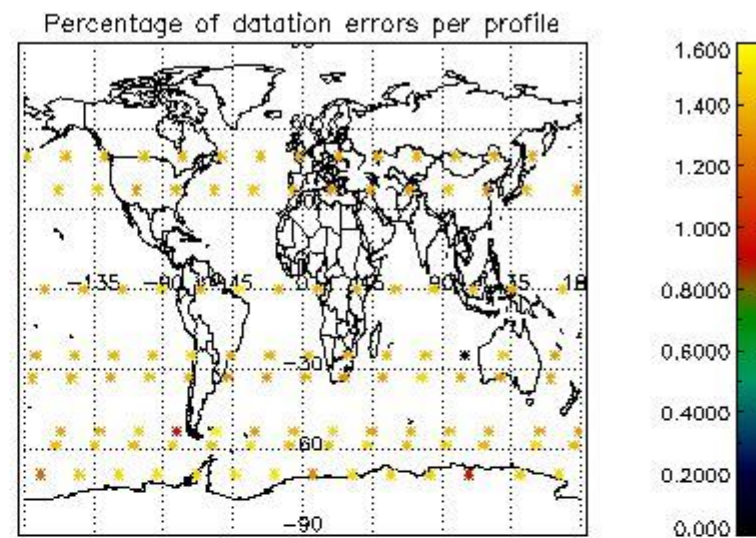
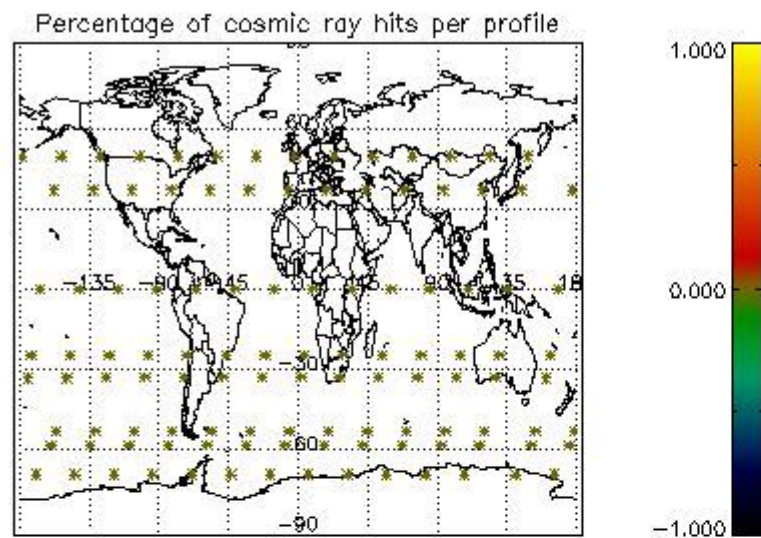
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

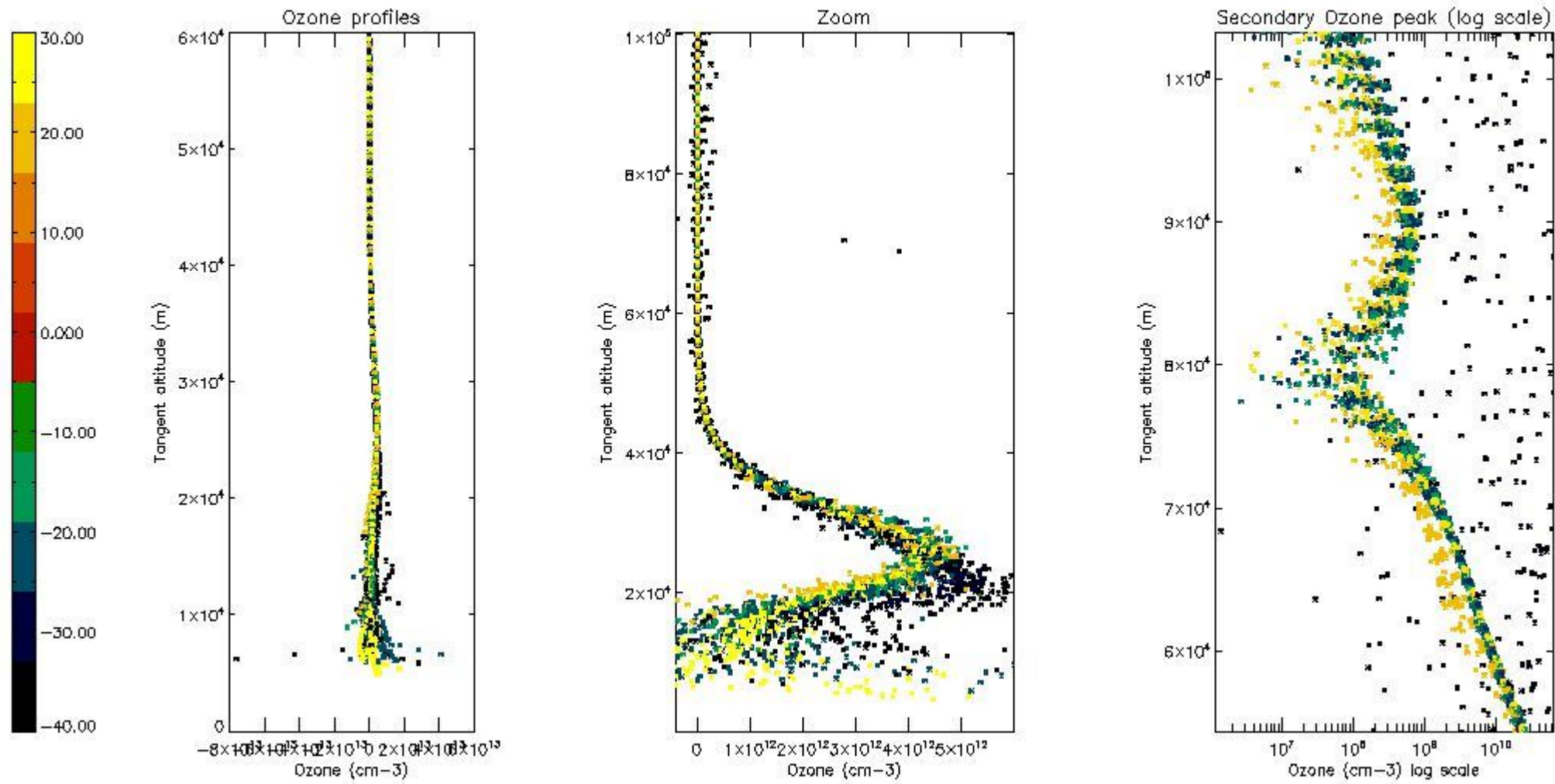
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	40
STD < 20	23

STD < 10	18
STD < 5	9

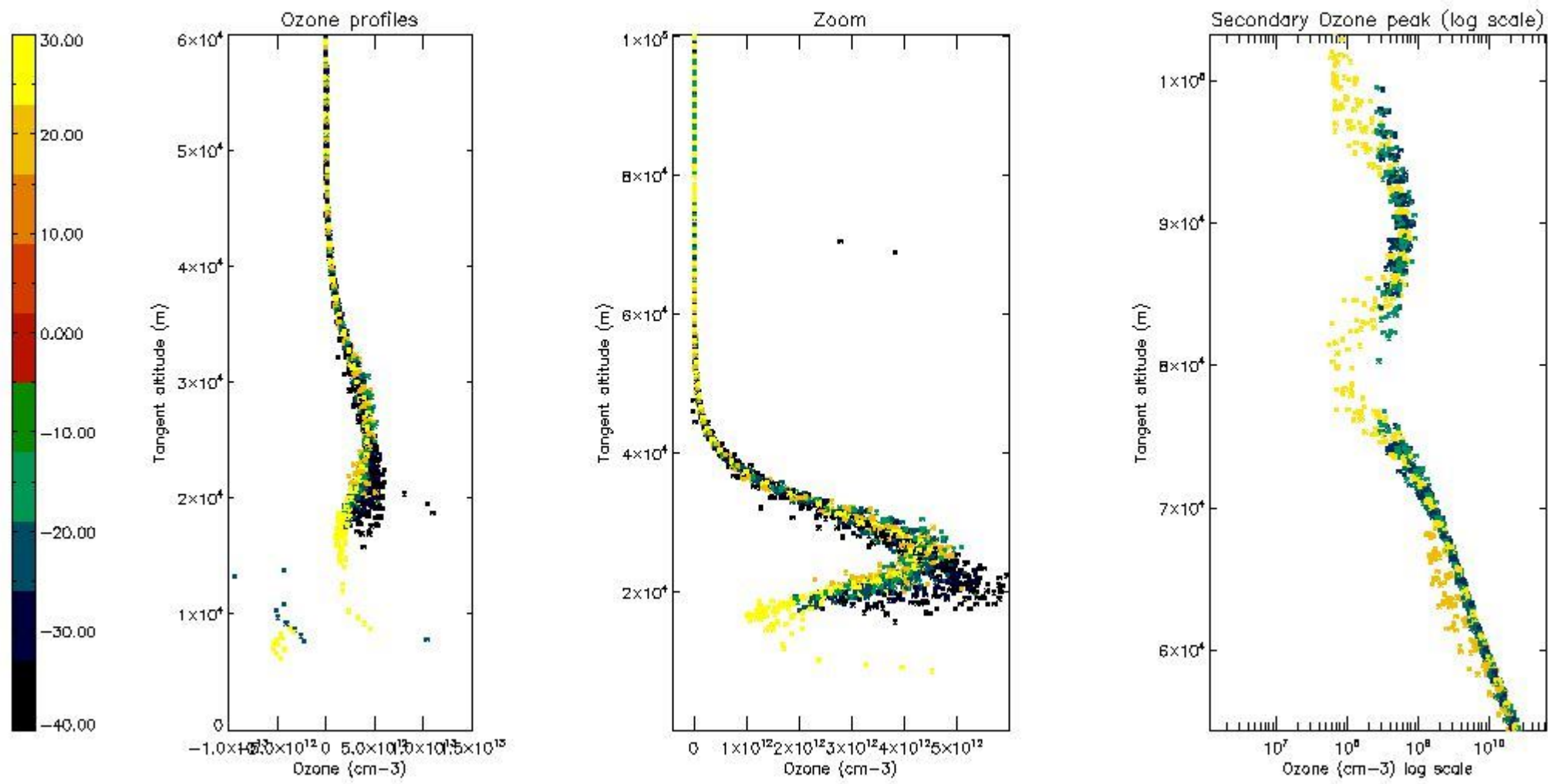
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



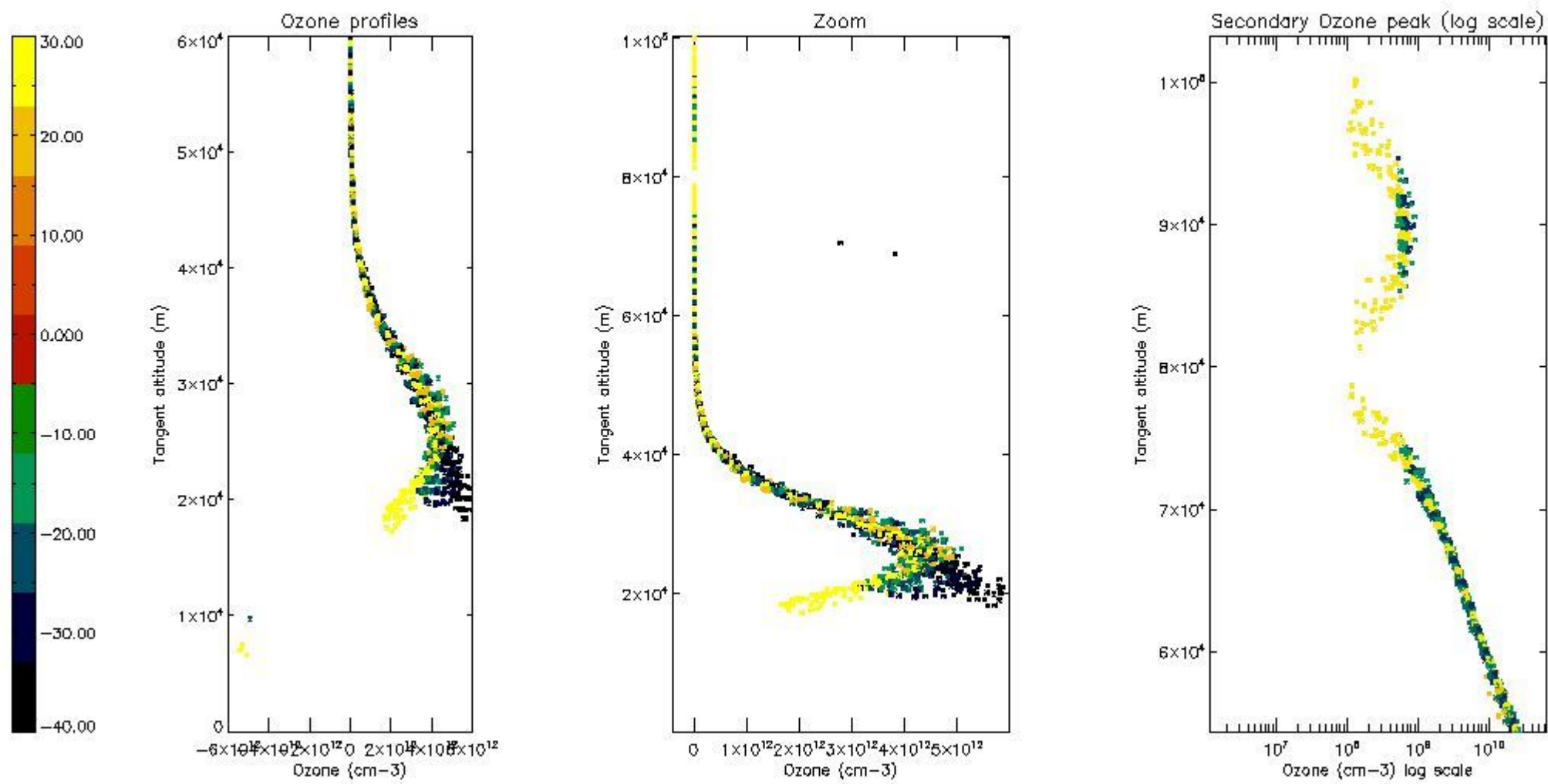
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



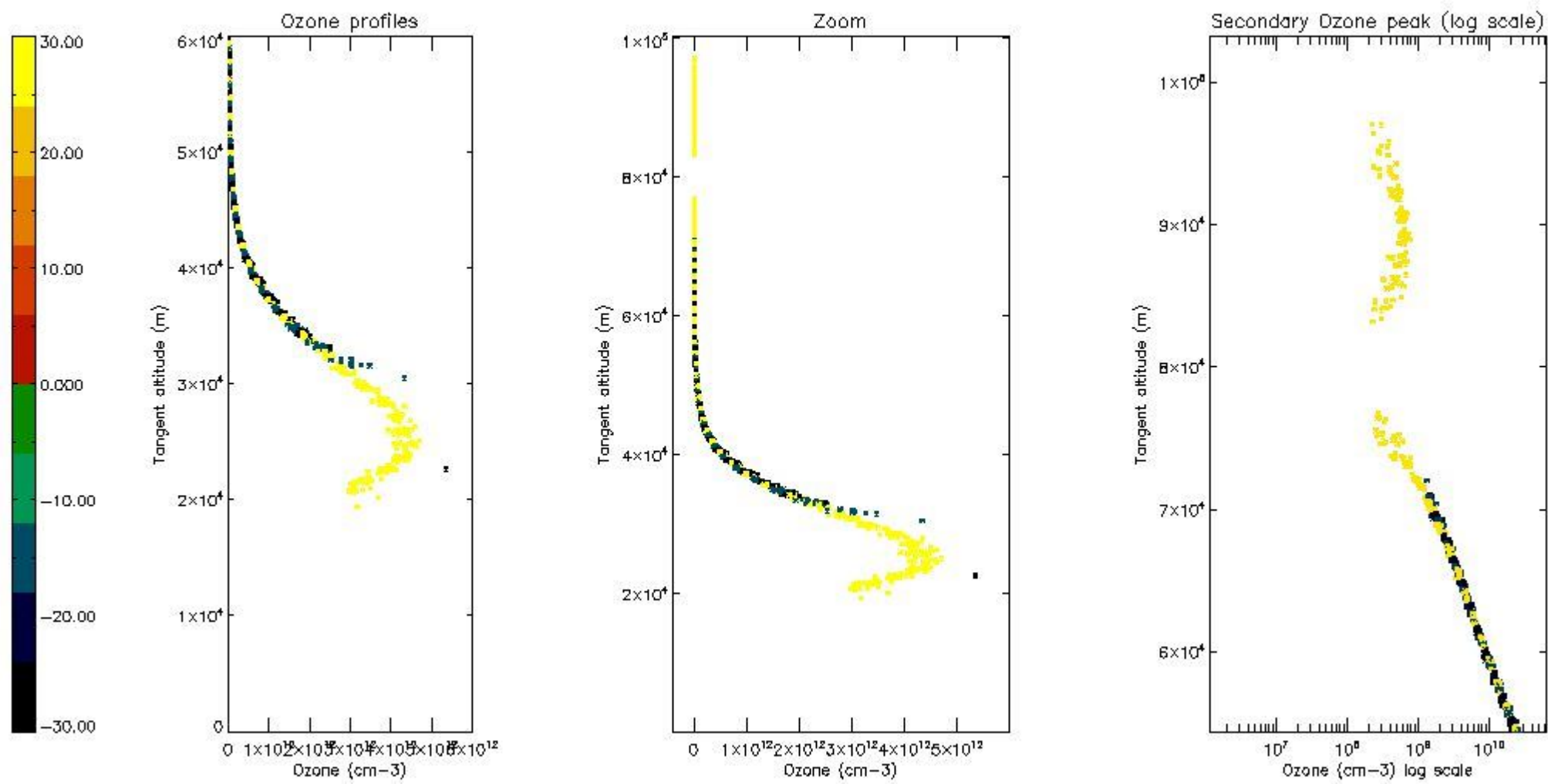
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



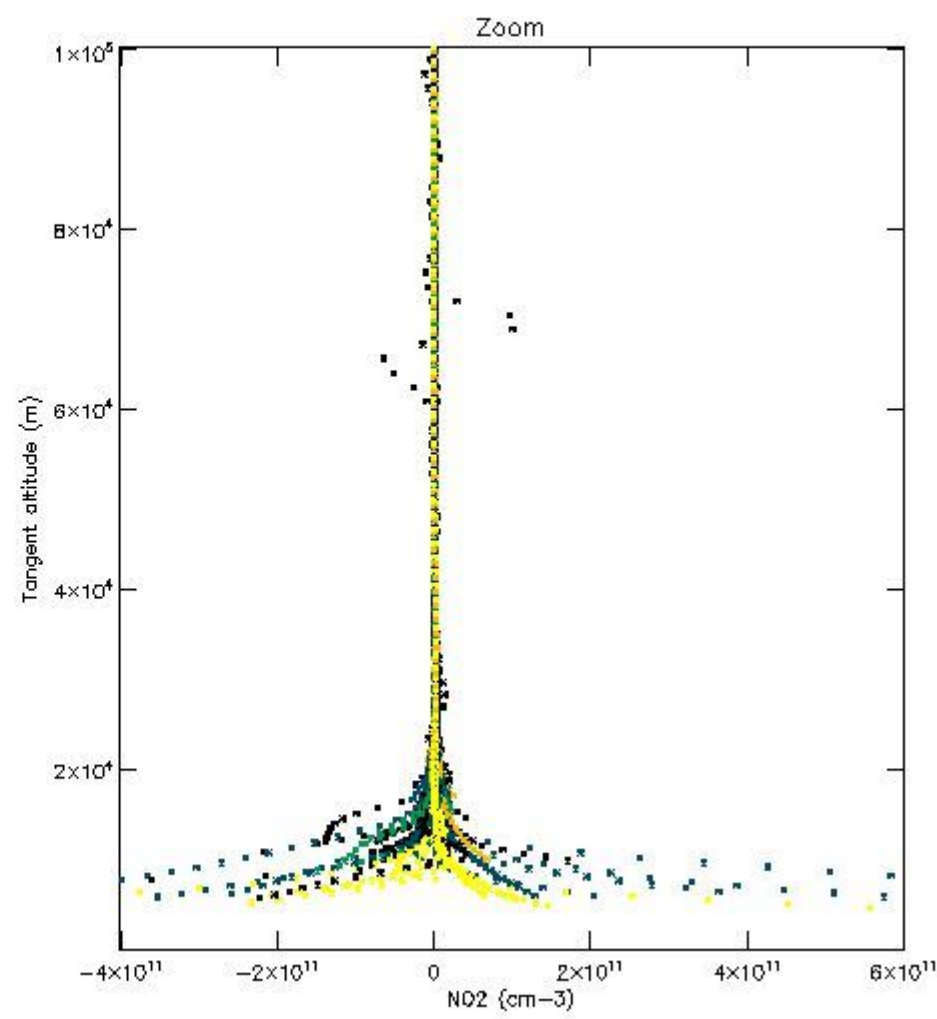
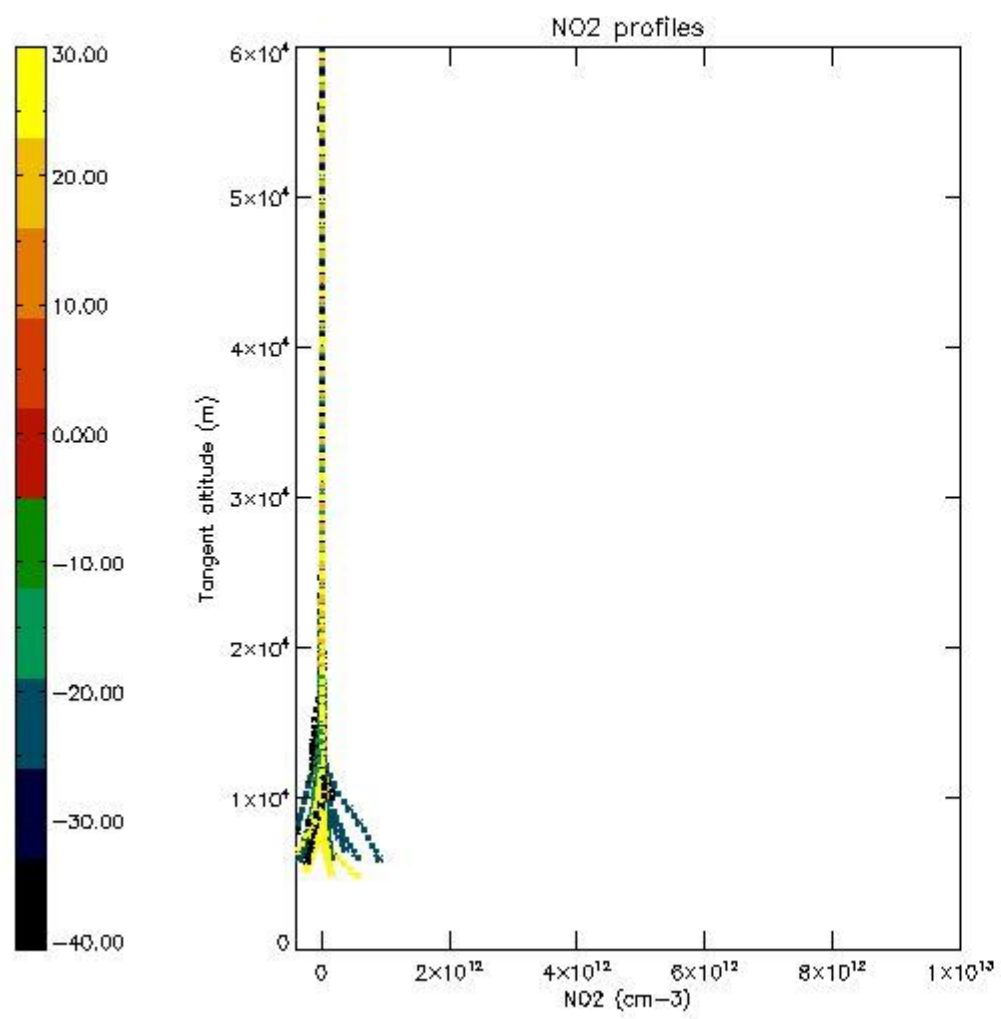
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



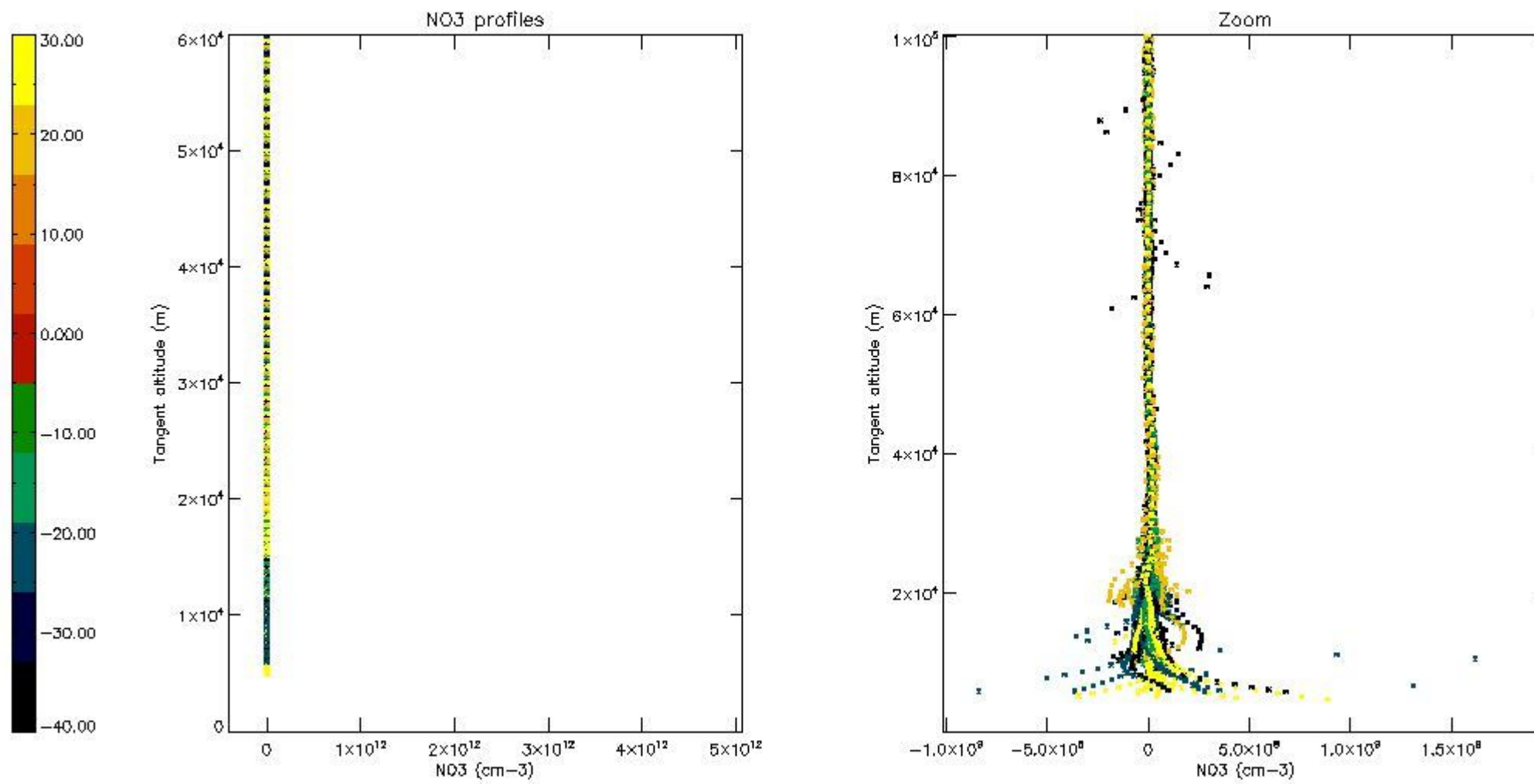
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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	05-OCT-2005 00:04:31
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	05-OCT-2005 00:04:31
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	05-OCT-2005 00:04:31

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

[2. Summary of processed GOM_NL_2P products](#)

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

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[4. Level 1 Quality information per product \(stored on level 2 products\)](#)

[4.1 Plot of level 1 quality information per product \(time dependant\)](#)

[4.1.1 Plot of level 1 quality information per product \(time dependant\): ASCENDING](#)

[4.1.2 Plot of level 1 quality information per product \(time dependant\): DESCENDING](#)

[4.2 Plot of level 1 quality information per product \(world map\)](#)

[4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

[4.2.2 Plot of level 1 quality information per product \(world map\): DESCENDING](#)

[5. Ozone profiles based on quality statistics and other trace gas profiles](#)

[5.1 Ozone statistics based on quality of products](#)

[5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

[5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

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

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

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

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

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

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

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

Item	Value
Time of report generation	18APR2013 11:25:35
Data source version	GOMOS/6.01
Start time of products	05-10-2005 (05OCT2005 00:00:00)
Stop time of products	06-10-2005 (06OCT2005 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	252
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

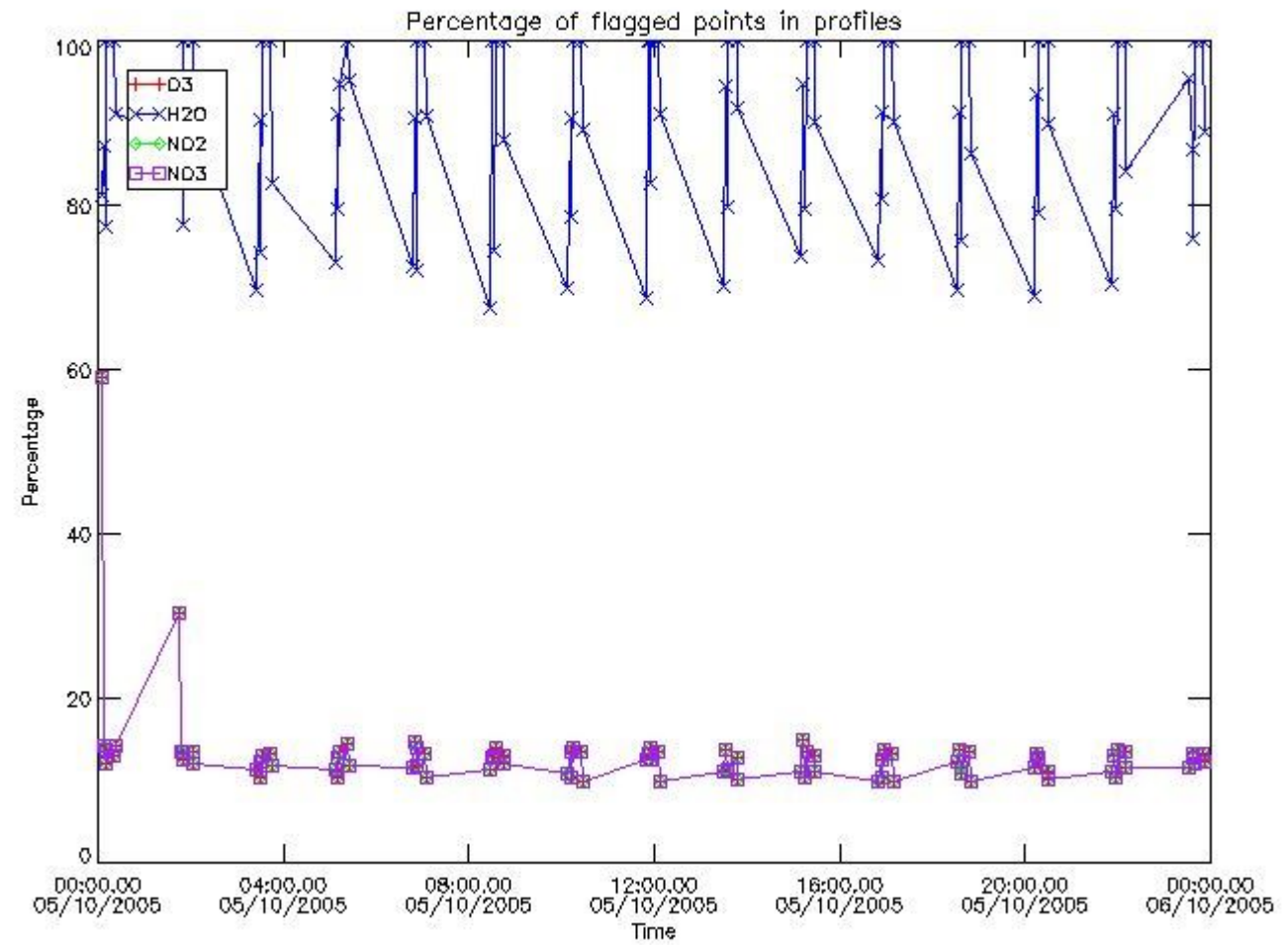
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20051005_000431_000000462041_00216_18807_7325.N1	05-OCT-2005 00:04:31	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	18807	No
2	GOM_NL__2PRFIN20051005_000747_000000402041_00216_18807_7326.N1	05-OCT-2005 00:07:47	Dark	39.500	46	Del Vel	1.9540	10600.	79	18807	No
3	GOM_NL__2PRFIN20051005_000922_000000432041_00217_18808_7309.N1	05-OCT-2005 00:09:22	Dark	42.500	41	Eps Car	1.8600	4100.0	85	18808	No
4	GOM_NL__2PRFIN20051005_001050_000000372041_00217_18808_7310.N1	05-OCT-2005 00:10:50	Dark	37.000	29	Bet Car	1.6720	10200.	74	18808	No
5	GOM_NL__2PRFIN20051005_002135_000000392041_00217_18808_7311.N1	05-OCT-2005 00:21:35	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	18808	No
6	GOM_NL__2PRFIN20051005_002302_000000402041_00217_18808_7312.N1	05-OCT-2005 00:23:02	Dark	39.500	9	Alp Eri	0.45300	24000.	79	18808	No
7	GOM_NL__2PRFIN20051005_002818_000000402041_00217_18808_7313.N1	05-OCT-2005 00:28:18	Straylight	40.000	84	Alp Phe	2.3970	4500.0	80	18808	No
8	GOM_NL__2PRFIN20051005_003252_000000442041_00217_18808_7314.N1	05-OCT-2005 00:32:52	Straylight	44.000	18	24Alp PsA	1.1660	9700.0	88	18808	No
9	GOM_NL__2PRFIN20051005_004513_000000372041_00217_18808_7315.N1	05-OCT-2005 00:45:13	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	18808	No
10	GOM_NL__2PRFIN20051005_004849_000000362041_00217_18808_7316.N1	05-OCT-2005 00:48:49	Bright	35.500	93	53Bet Peg	2.5200	3100.0	71	18808	No
11	GOM_NL__2PRFIN20051005_005914_000000372041_00217_18808_7317.N1	05-OCT-2005 00:59:14	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	18808	No
12	GOM_NL__2PRFIN20051005_010609_000000352041_00217_18808_7318.N1	05-OCT-2005 01:06:09	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	18808	No
13	GOM_NL__2PRFIN20051005_010829_000000382041_00217_18808_7319.N1	05-OCT-2005 01:08:29	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	18808	No
14	GOM_NL__2PRFIN20051005_011412_000000362041_00217_18808_7320.N1	05-OCT-2005 01:14:12	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	18808	No
15	GOM_NL__2PRFIN20051005_011543_000000362041_00217_18808_7321.N1	05-OCT-2005 01:15:43	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	18808	No
16	GOM_NL__2PRFIN20051005_011859_000000522041_00217_18808_7322.N1	05-OCT-2005 01:18:59	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	18808	No
17	GOM_NL__2PRFIN20051005_012623_000000352041_00217_18808_7323.N1	05-OCT-2005 01:26:23	Bright	34.500	51	41Gam1Leo	2.0100	4500.0	69	18808	No
18	GOM_NL__2PRFIN20051005_012846_000000352041_00217_18808_7324.N1	05-OCT-2005 01:28:46	Bright	35.000	22	32Alp Leo	1.3600	15200.	70	18808	No
19	GOM_NL__2PRFIN20051005_014507_000000402041_00217_18808_7325.N1	05-OCT-2005 01:45:07	Dark	40.000	65	Lam Vel	2.2040	4400.0	80	18808	No
20	GOM_NL__2PRFIN20051005_014823_000000382041_00217_18808_7326.N1	05-OCT-2005 01:48:23	Dark	38.000	46	Del Vel	1.9540	10600.	76	18808	No
21	GOM_NL__2PRFIN20051005_014958_000000412041_00218_18809_7329.N1	05-OCT-2005 01:49:58	Dark	40.500	41	Eps Car	1.8600	4100.0	81	18809	No
22	GOM_NL__2PRFIN20051005_015126_000000382041_00218_18809_7330.N1	05-OCT-2005 01:51:26	Dark	38.000	29	Bet Car	1.6720	10200.	76	18809	No
23	GOM_NL__2PRFIN20051005_020211_000000382041_00218_18809_7331.N1	05-OCT-2005 02:02:11	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	18809	No
24	GOM_NL__2PRFIN20051005_020339_000000432041_00218_18809_7332.N1	05-OCT-2005 02:03:39	Dark	42.500	9	Alp Eri	0.45300	24000.	85	18809	No
25	GOM_NL__2PRFIN20051005_020854_000000452041_00218_18809_7333.N1	05-OCT-2005 02:08:54	Straylight	45.000	84	Alp Phe	2.3970	4500.0	90	18809	No
26	GOM_NL__2PRFIN20051005_021328_000000412041_00218_18809_7334.N1	05-OCT-2005 02:13:28	Straylight	41.000	18	24Alp PsA	1.1660	9700.0	82	18809	No
27	GOM_NL__2PRFIN20051005_022549_000000372041_00218_18809_7335.N1	05-OCT-2005 02:25:49	Bright	37.000	90	54Alp Peg	2.4870	11000.	74	18809	No
28	GOM_NL__2PRFIN20051005_022925_000000392041_00218_18809_7336.N1	05-OCT-2005 02:29:25	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	18809	No
29	GOM_NL__2PRFIN20051005_023950_000000352041_00218_18809_7337.N1	05-OCT-2005 02:39:50	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	18809	No
30	GOM_NL__2PRFIN20051005_024645_000000332041_00218_18809_7338.N1	05-OCT-2005 02:46:45	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	18809	No
31	GOM_NL__2PRFIN20051005_024905_000000372041_00218_18809_7339.N1	05-OCT-2005 02:49:05	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	18809	No
32	GOM_NL__2PRFIN20051005_025448_000000362041_00218_18809_7340.N1	05-OCT-2005 02:54:48	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	18809	No
33	GOM_NL__2PRFIN20051005_025619_000000342041_00218_18809_7341.N1	05-OCT-2005 02:56:19	Bright	34.000	82	48Bet UMa	2.3650	10600.	68	18809	No
34	GOM_NL__2PRFIN20051005_025935_000000342041_00218_18809_7342.N1	05-OCT-2005 02:59:35	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	18809	No
35	GOM_NL__2PRFIN20051005_030659_000000352041_00218_18809_7343.N1	05-OCT-2005 03:06:59	Bright	34.500	51	41Gam1Leo	2.0100	4500.0	69	18809	No
36	GOM_NL__2PRFIN20051005_030923_000000352041_00218_18809_7344.N1	05-OCT-2005 03:09:23	Bright	34.500	22	32Alp Leo	1.3600	15200.	69	18809	No
37	GOM_NL__2PRFIN20051005_032544_000000452041_00218_18809_7345.N1	05-OCT-2005 03:25:44	Dark	45.000	65	Lam Vel	2.2040	4400.0	90	18809	No
38	GOM_NL__2PRFIN20051005_032859_000000422041_00218_18809_7346.N1	05-OCT-2005 03:28:59	Dark	41.500	46	Del Vel	1.9540	10600.	83	18809	No
39	GOM_NL__2PRFIN20051005_033035_000000492041_00219_18810_7329.N1	05-OCT-2005 03:30:35	Dark	49.000	41	Eps Car	1.8600	4100.0	98	18810	No
40	GOM_NL__2PRFIN20051005_033202_000000392041_00219_18810_7330.N1	05-OCT-2005 03:32:02	Dark	39.000	29	Bet Car	1.6720	10200.	78	18810	No
41	GOM_NL__2PRFIN20051005_034247_000000392041_00219_18810_7331.N1	05-OCT-2005 03:42:47	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	18810	No
42	GOM_NL__2PRFIN20051005_034415_000000442041_00219_18810_7332.N1	05-OCT-2005 03:44:15	Dark	43.500	9	Alp Eri	0.45300	24000.	87	18810	No

220	GOM_NL__2PRFIN20051005_205601_000000352041_00229_18820_7406.N1	05-OCT-2005 20:56:01	Bright	35.000	93	53Bet Peg	2.5200	3100.0	70	18820	No
221	GOM_NL__2PRFIN20051005_210628_000000372041_00229_18820_7407.N1	05-OCT-2005 21:06:28	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	18820	No
222	GOM_NL__2PRFIN20051005_211320_000000372041_00229_18820_7408.N1	05-OCT-2005 21:13:20	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	18820	No
223	GOM_NL__2PRFIN20051005_211543_000000362041_00229_18820_7409.N1	05-OCT-2005 21:15:43	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	18820	No
224	GOM_NL__2PRFIN20051005_212125_000000382041_00229_18820_7410.N1	05-OCT-2005 21:21:25	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	18820	No
225	GOM_NL__2PRFIN20051005_212256_000000362041_00229_18820_7411.N1	05-OCT-2005 21:22:56	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	18820	No
226	GOM_NL__2PRFIN20051005_212612_000000342041_00229_18820_7412.N1	05-OCT-2005 21:26:12	Bright	33.500	174	52Psi UMa	3.0040	4400.0	67	18820	No
227	GOM_NL__2PRFIN20051005_213337_000000352041_00229_18820_7413.N1	05-OCT-2005 21:33:37	Bright	35.000	51	41Gam1Leo	2.0100	4500.0	70	18820	No
228	GOM_NL__2PRFIN20051005_213601_000000362041_00229_18820_7414.N1	05-OCT-2005 21:36:01	Bright	36.000	22	32Alp Leo	1.3600	15200.	72	18820	No
229	GOM_NL__2PRFIN20051005_215224_000000512041_00229_18820_7415.N1	05-OCT-2005 21:52:24	Dark	51.000	65	Lam Vel	2.2040	4400.0	102	18820	No
230	GOM_NL__2PRFIN20051005_215539_000000402041_00229_18820_7416.N1	05-OCT-2005 21:55:39	Dark	39.500	46	Del Vel	1.9540	10600.	79	18820	No
231	GOM_NL__2PRFIN20051005_215714_000000502041_00230_18821_7400.N1	05-OCT-2005 21:57:14	Dark	49.500	41	Eps Car	1.8600	4100.0	99	18821	No
232	GOM_NL__2PRFIN20051005_215839_000000372041_00230_18821_7401.N1	05-OCT-2005 21:58:39	Dark	37.000	29	Bet Car	1.6720	10200.	74	18821	No
233	GOM_NL__2PRFIN20051005_220927_000000382041_00230_18821_7402.N1	05-OCT-2005 22:09:27	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	18821	No
234	GOM_NL__2PRFIN20051005_221054_000000452041_00230_18821_7403.N1	05-OCT-2005 22:10:54	Dark	44.500	9	Alp Eri	0.45300	24000.	89	18821	No
235	GOM_NL__2PRFIN20051005_221609_000000442041_00230_18821_7404.N1	05-OCT-2005 22:16:09	Straylight	44.000	84	Alp Phe	2.3970	4500.0	88	18821	No
236	GOM_NL__2PRFIN20051005_223302_000000352041_00230_18821_7405.N1	05-OCT-2005 22:33:02	Bright	35.000	90	54Alp Peg	2.4870	11000.	70	18821	No
237	GOM_NL__2PRFIN20051005_223637_000000372041_00230_18821_7406.N1	05-OCT-2005 22:36:37	Bright	36.500	93	53Bet Peg	2.5200	3100.0	73	18821	No
238	GOM_NL__2PRFIN20051005_224704_000000352041_00230_18821_7407.N1	05-OCT-2005 22:47:04	Bright	34.500	89	5Alp Cep	2.4510	8000.0	69	18821	No
239	GOM_NL__2PRFIN20051005_225356_000000382041_00230_18821_7408.N1	05-OCT-2005 22:53:56	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	18821	No
240	GOM_NL__2PRFIN20051005_225619_000000372041_00230_18821_7409.N1	05-OCT-2005 22:56:19	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	18821	No
241	GOM_NL__2PRFIN20051005_230201_000000372041_00230_18821_7410.N1	05-OCT-2005 23:02:01	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	18821	No
242	GOM_NL__2PRFIN20051005_230332_000000342041_00230_18821_7411.N1	05-OCT-2005 23:03:32	Bright	33.500	82	48Bet UMa	2.3650	10600.	67	18821	No
243	GOM_NL__2PRFIN20051005_230648_000000342041_00230_18821_7412.N1	05-OCT-2005 23:06:48	Bright	34.000	174	52Psi UMa	3.0040	4400.0	68	18821	No
244	GOM_NL__2PRFIN20051005_231413_000000352041_00230_18821_7413.N1	05-OCT-2005 23:14:13	Bright	34.500	51	41Gam1Leo	2.0100	4500.0	69	18821	No
245	GOM_NL__2PRFIN20051005_231637_000000372041_00230_18821_7414.N1	05-OCT-2005 23:16:37	Bright	37.000	22	32Alp Leo	1.3600	15200.	74	18821	No
246	GOM_NL__2PRFIN20051005_233300_000000452041_00230_18821_7415.N1	05-OCT-2005 23:33:00	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	18821	No
247	GOM_NL__2PRFIN20051005_233615_000000392041_00230_18821_7416.N1	05-OCT-2005 23:36:15	Dark	38.500	46	Del Vel	1.9540	10600.	77	18821	No
248	GOM_NL__2PRFIN20051005_233751_000000402041_00231_18822_7342.N1	05-OCT-2005 23:37:51	Dark	40.000	41	Eps Car	1.8600	4100.0	80	18822	No
249	GOM_NL__2PRFIN20051005_233915_000000432041_00231_18822_7343.N1	05-OCT-2005 23:39:15	Dark	42.500	29	Bet Car	1.6720	10200.	85	18822	No
250	GOM_NL__2PRFIN20051005_235003_000000392041_00231_18822_7344.N1	05-OCT-2005 23:50:03	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	18822	No
251	GOM_NL__2PRFIN20051005_235130_000000422041_00231_18822_7345.N1	05-OCT-2005 23:51:30	Dark	41.500	9	Alp Eri	0.45300	24000.	83	18822	No
252	GOM_NL__2PRFIN20051005_235645_000000412041_00231_18822_7346.N1	05-OCT-2005 23:56:45	Straylight	40.500	84	Alp Phe	2.3970	4500.0	81	18822	No

3. Quality information per product

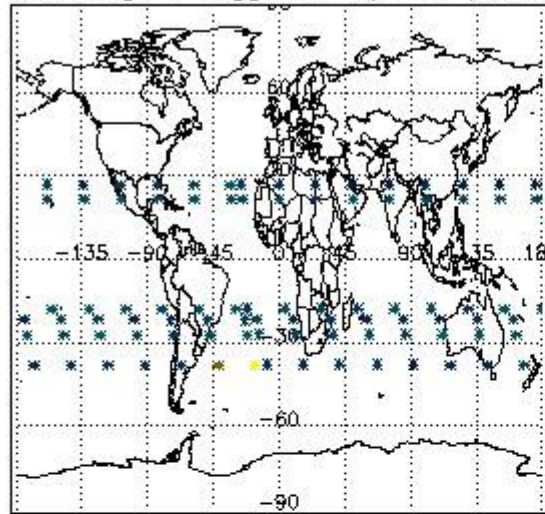
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

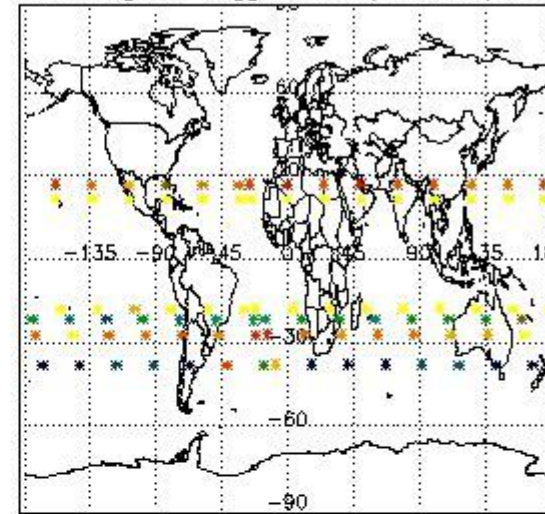


3.2 Plot quality information per product (world map)

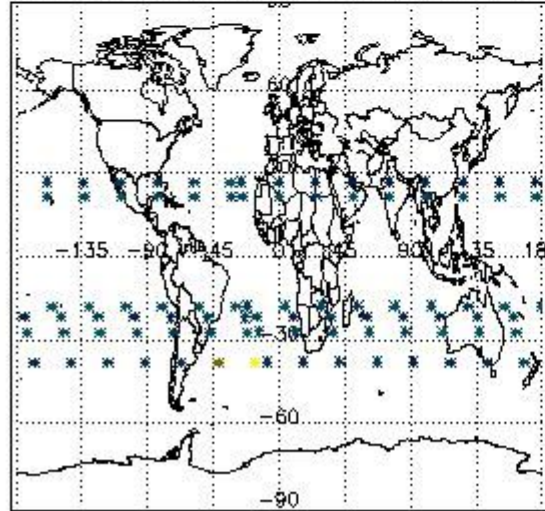
Percentage of flagged data per O3 profile



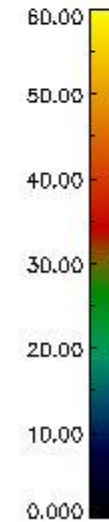
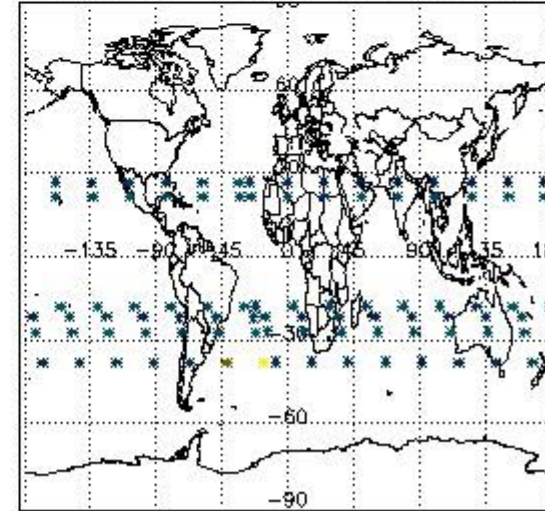
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

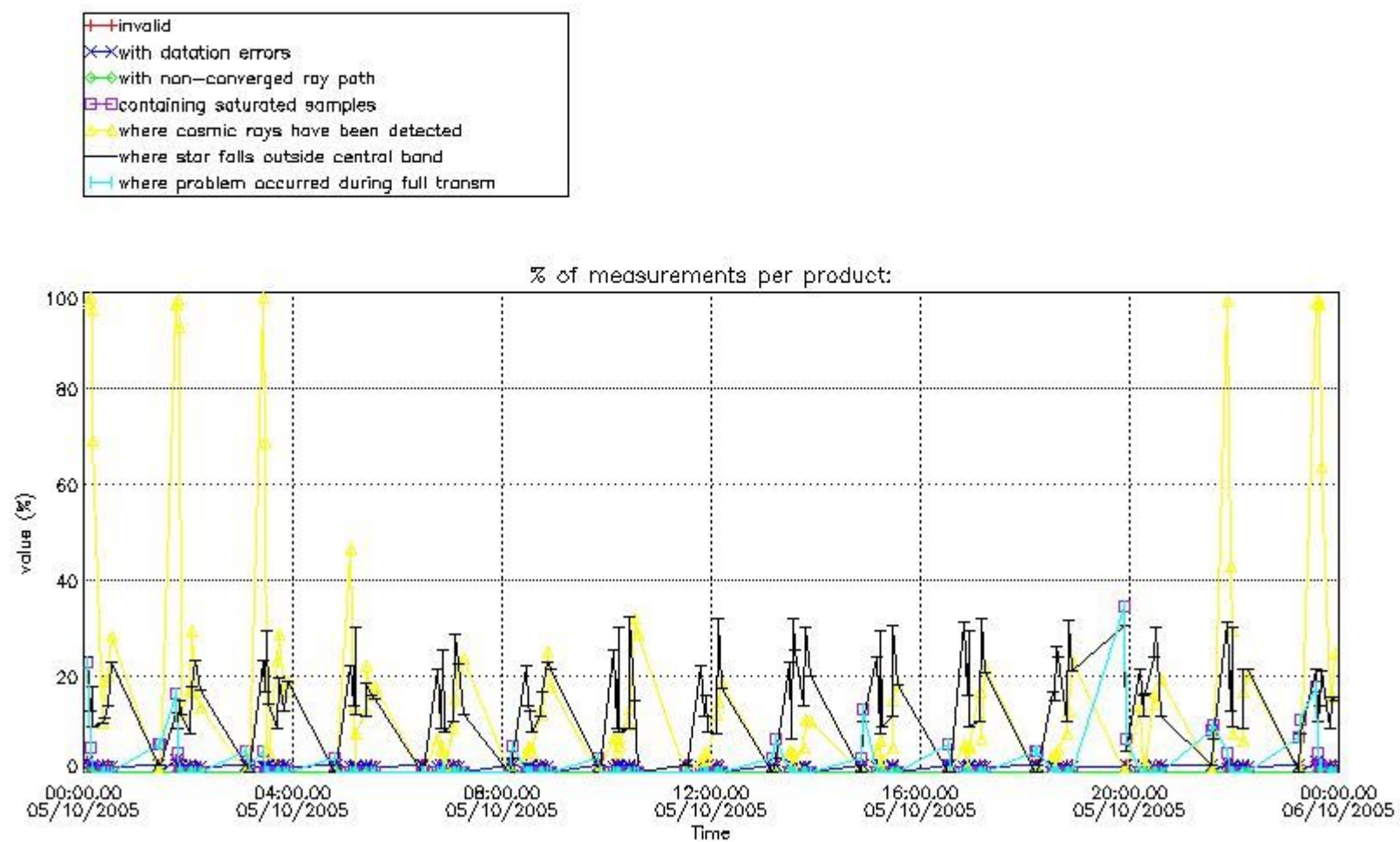


4. Level 1 quality information per product

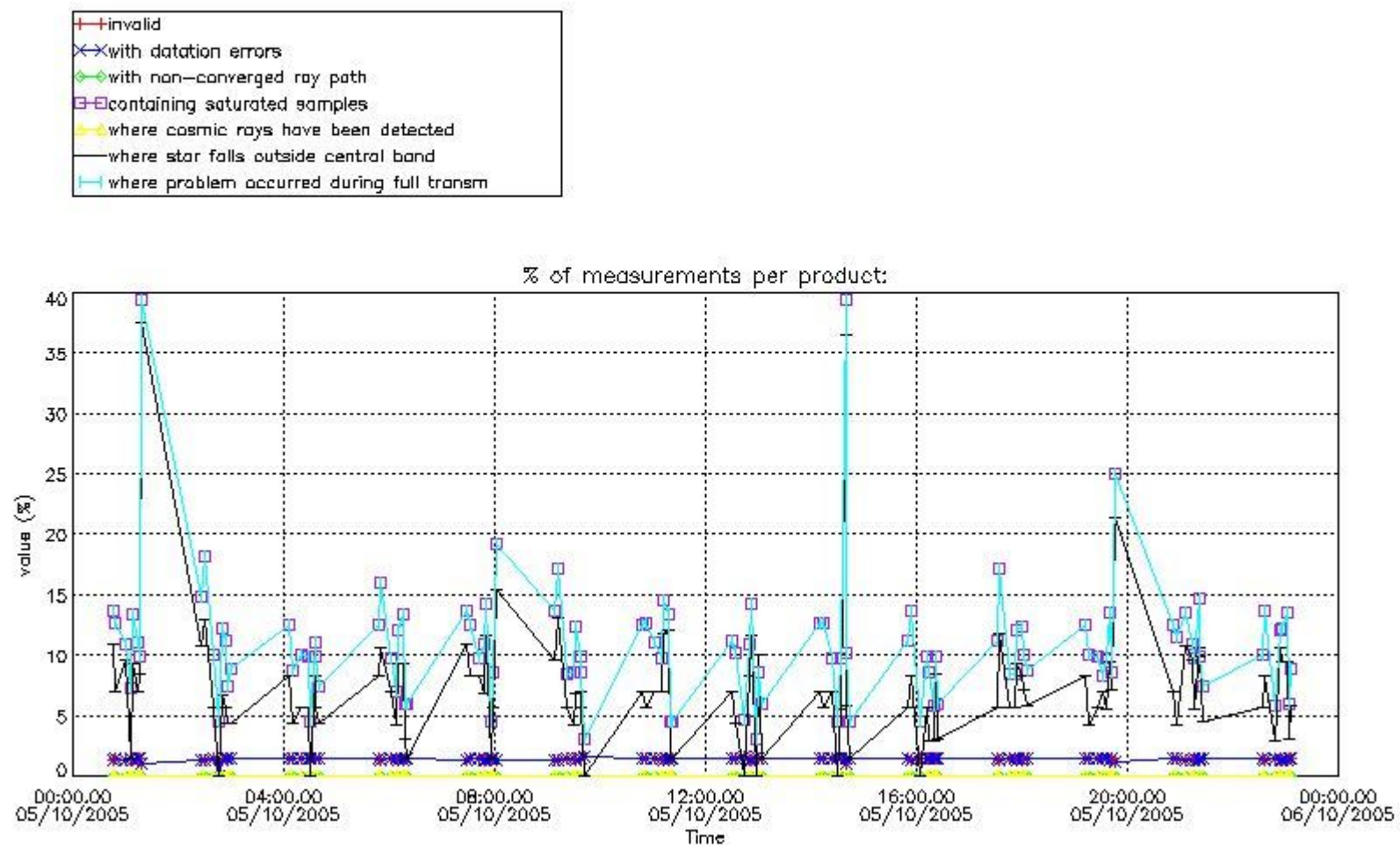
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



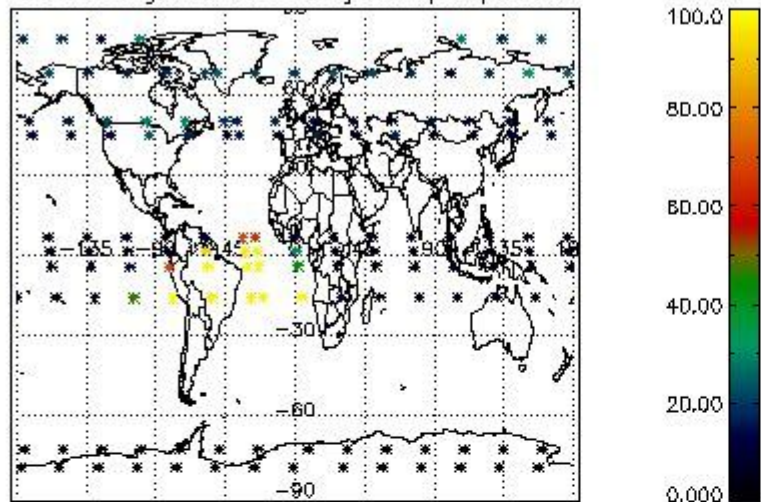
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



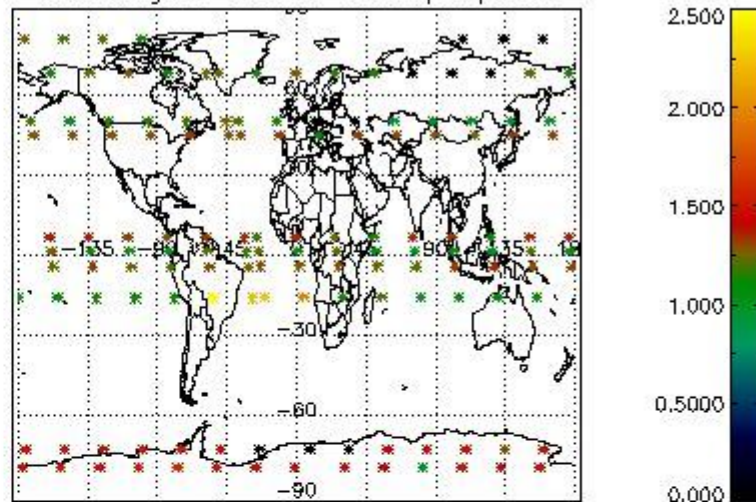
4.2 Plot quality information per product coming from level 1b processing (world map)

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

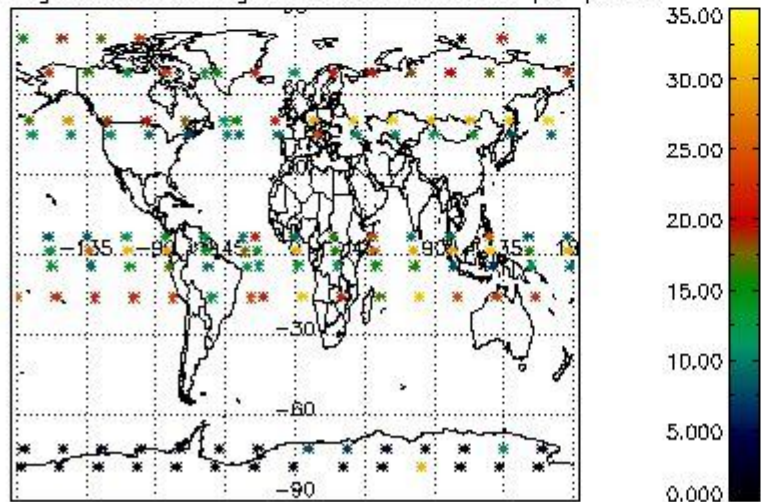
Percentage of cosmic ray hits per profile



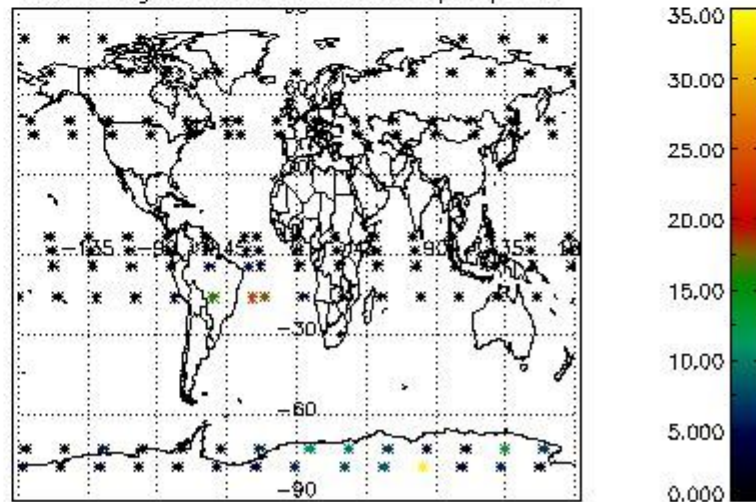
Percentage of datation errors per profile



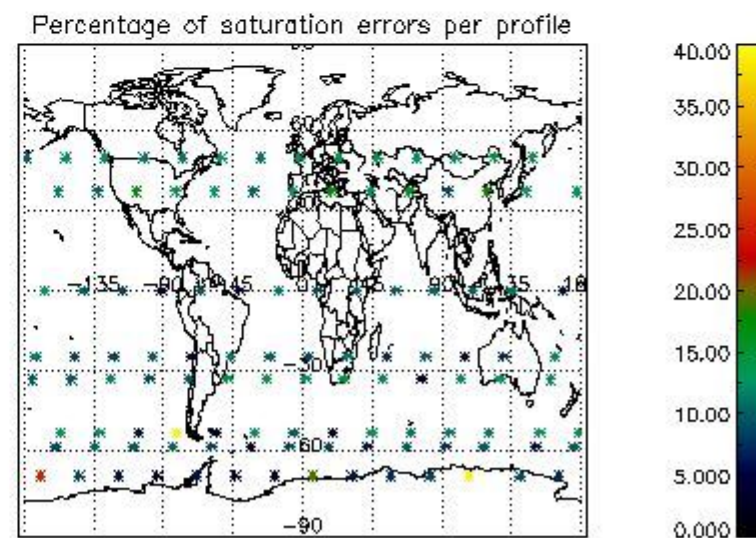
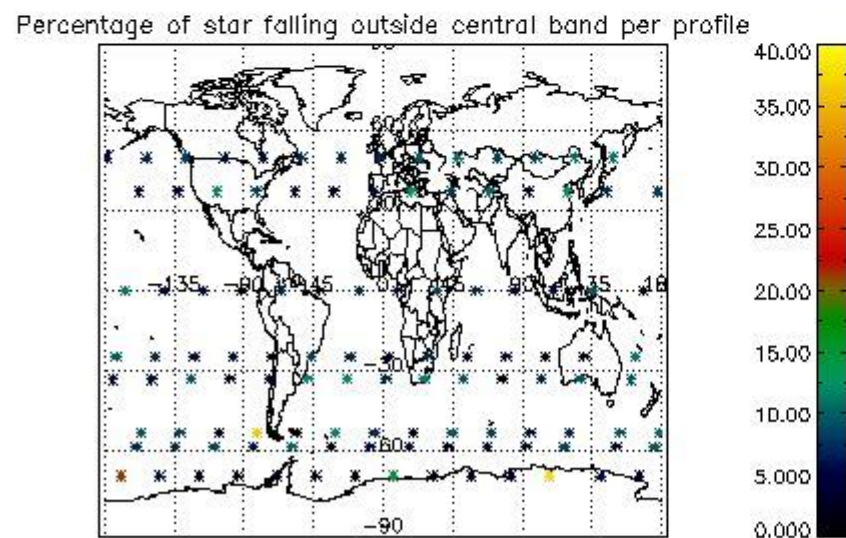
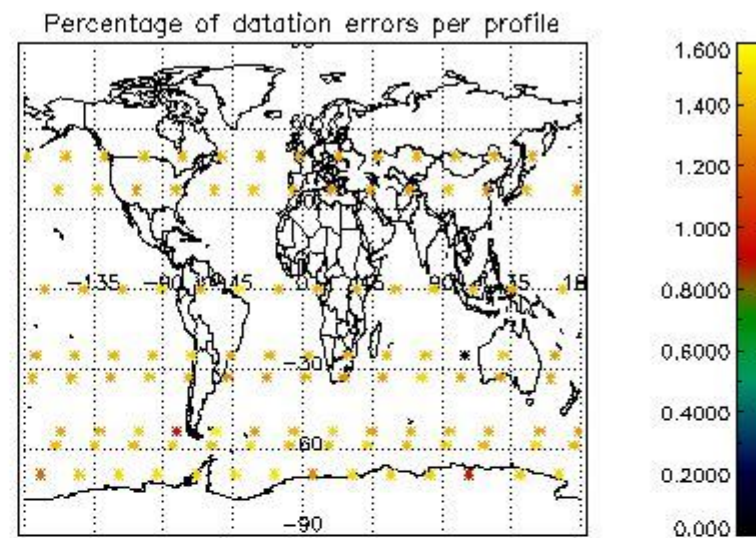
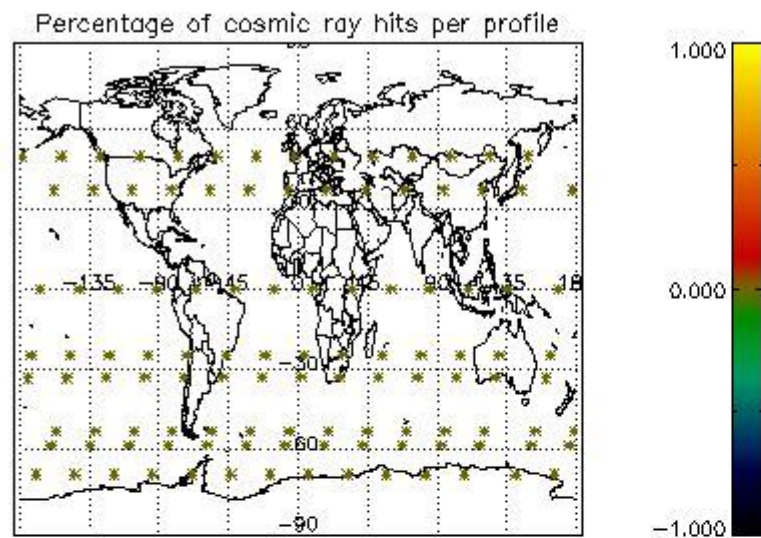
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

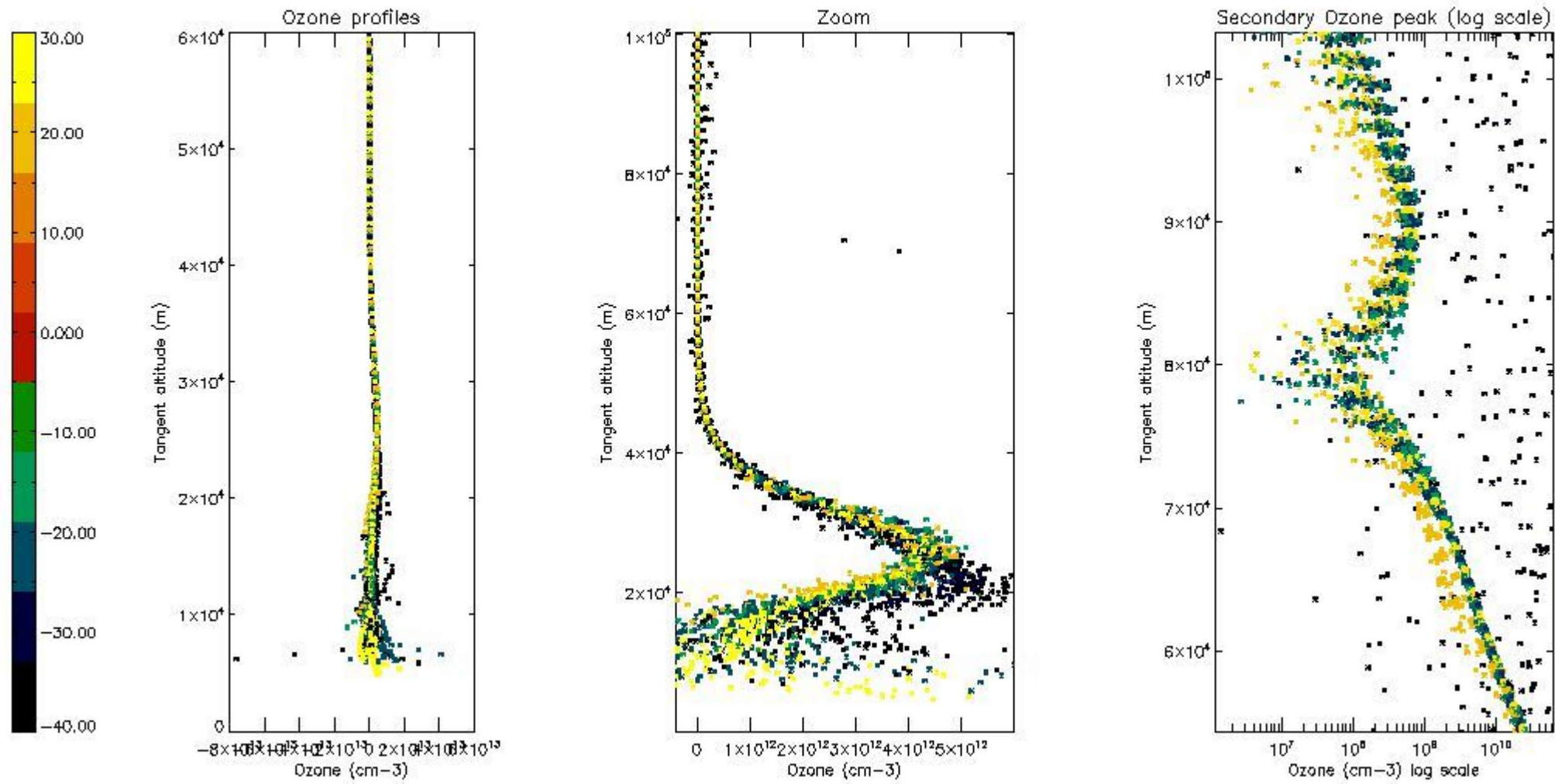
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	40
STD < 20	23

STD < 10	18
STD < 5	9

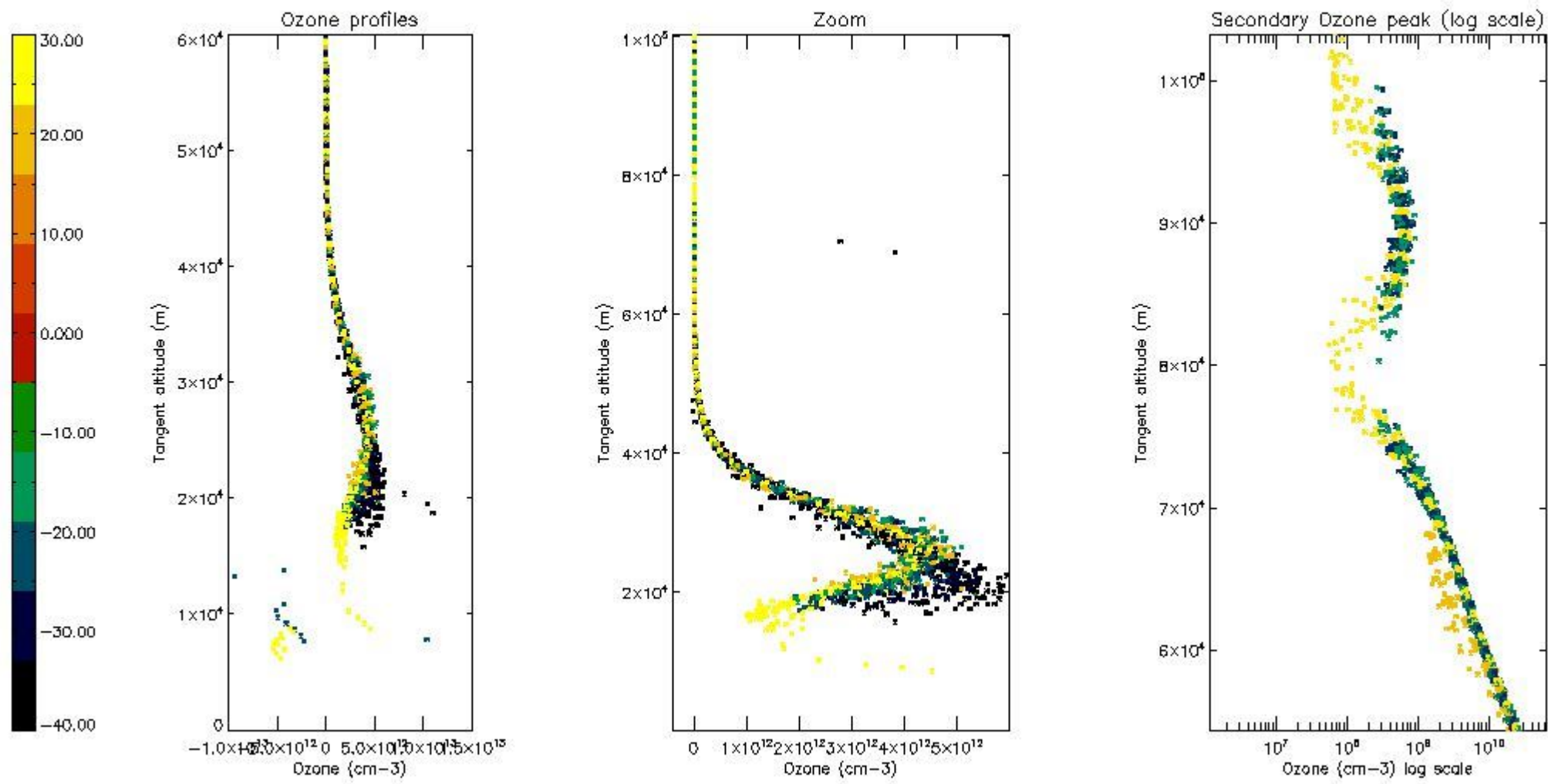
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



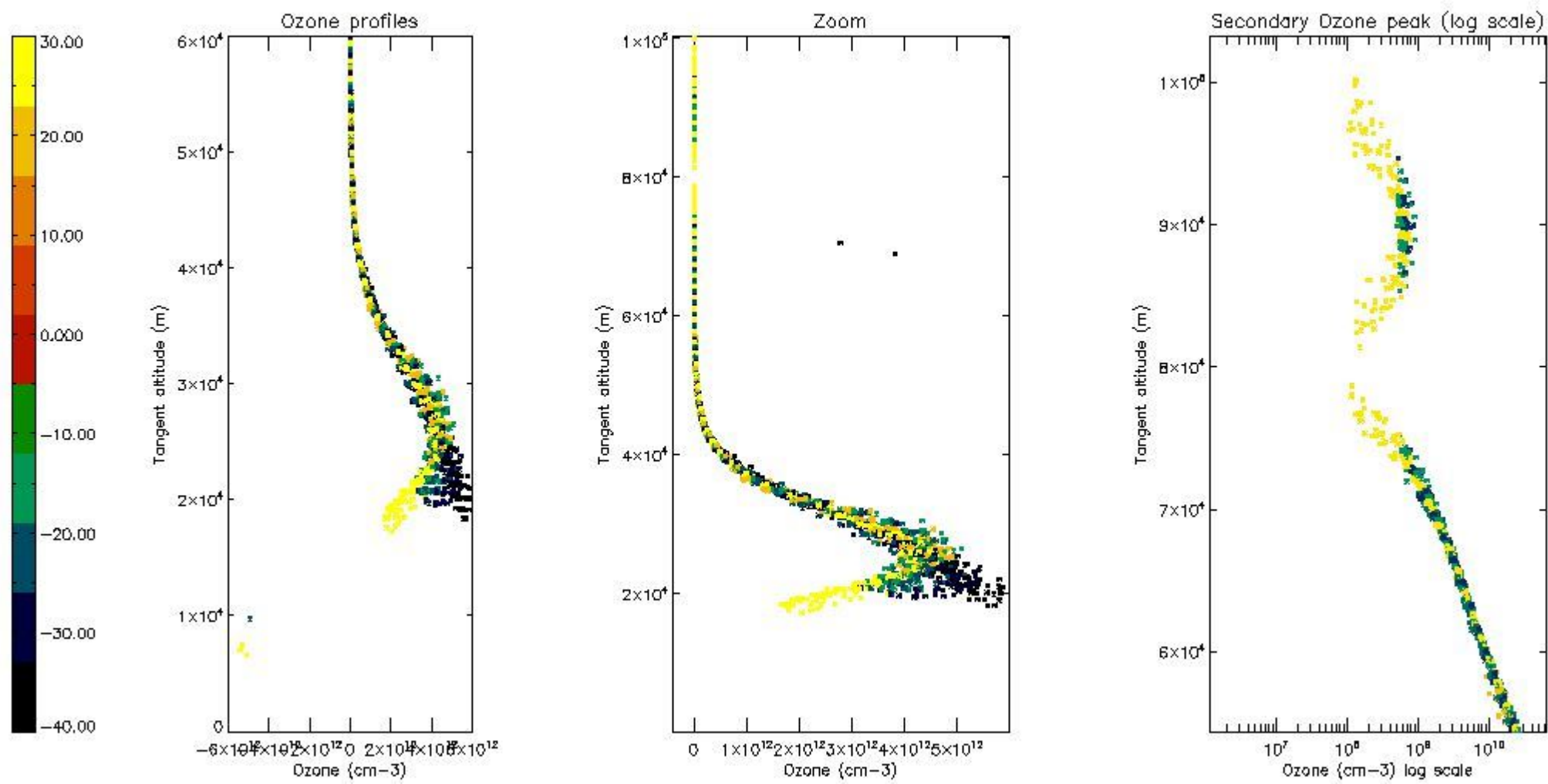
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



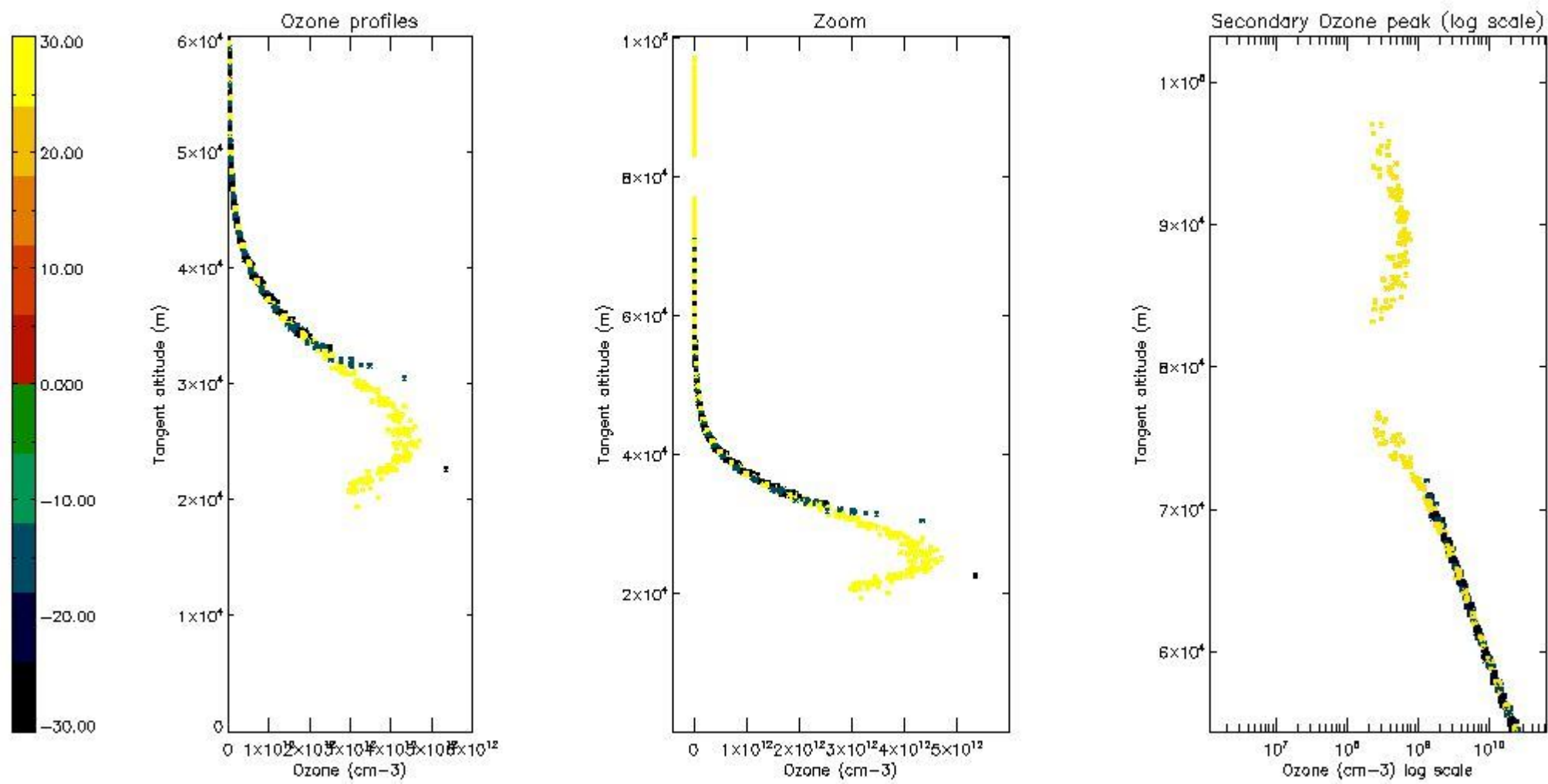
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



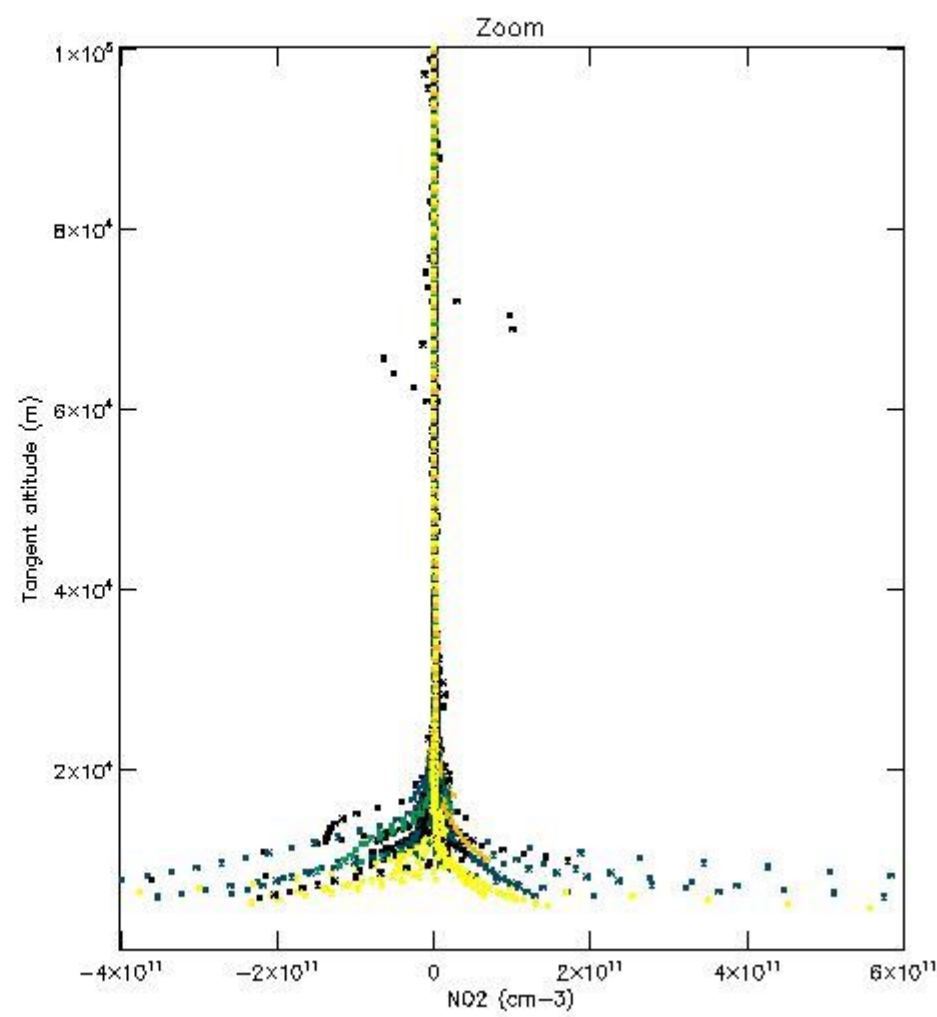
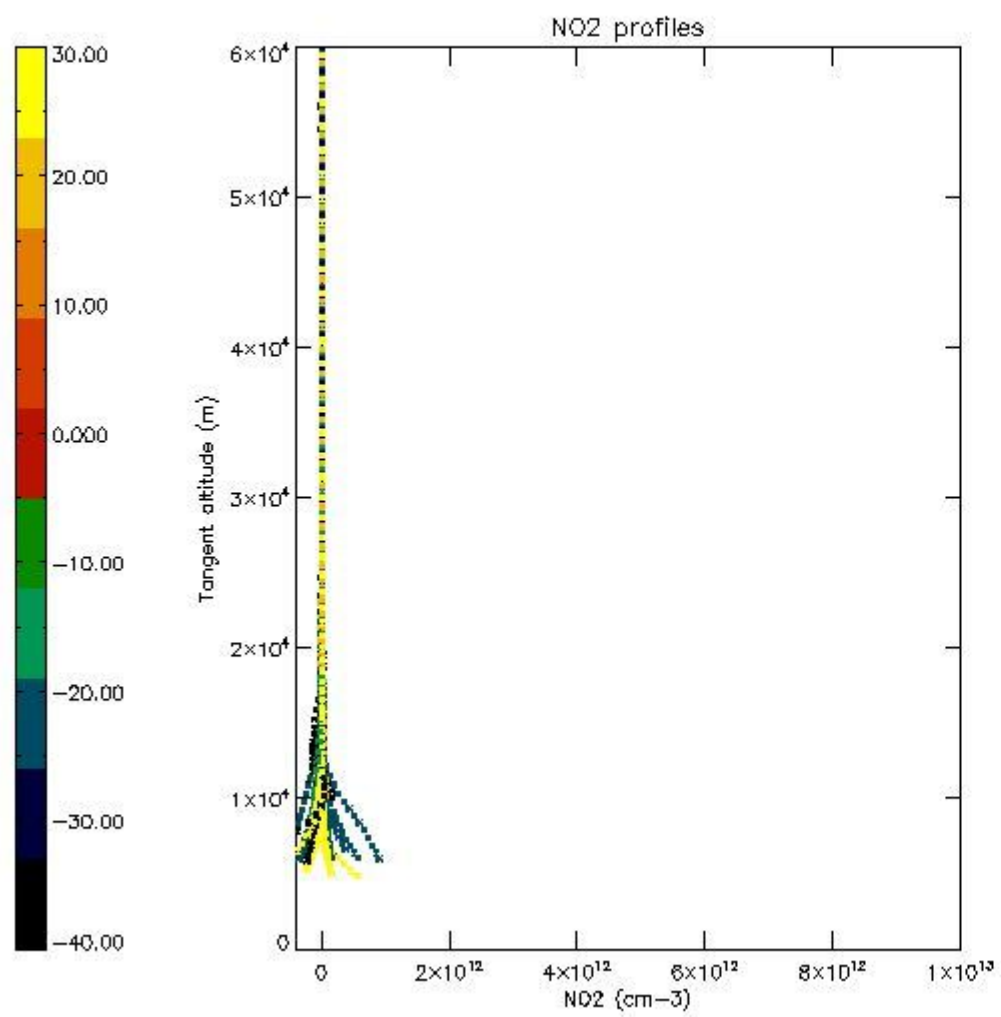
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



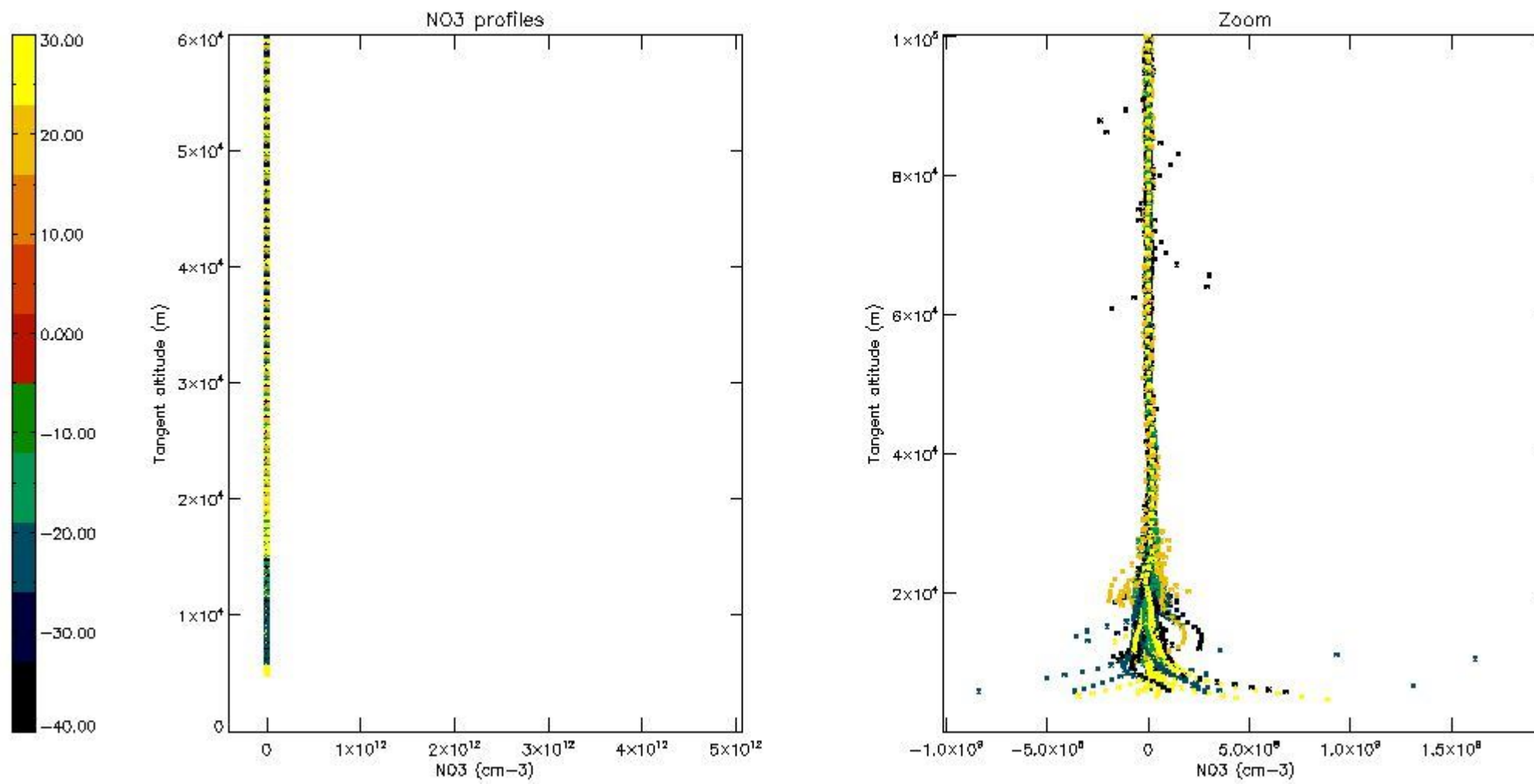
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

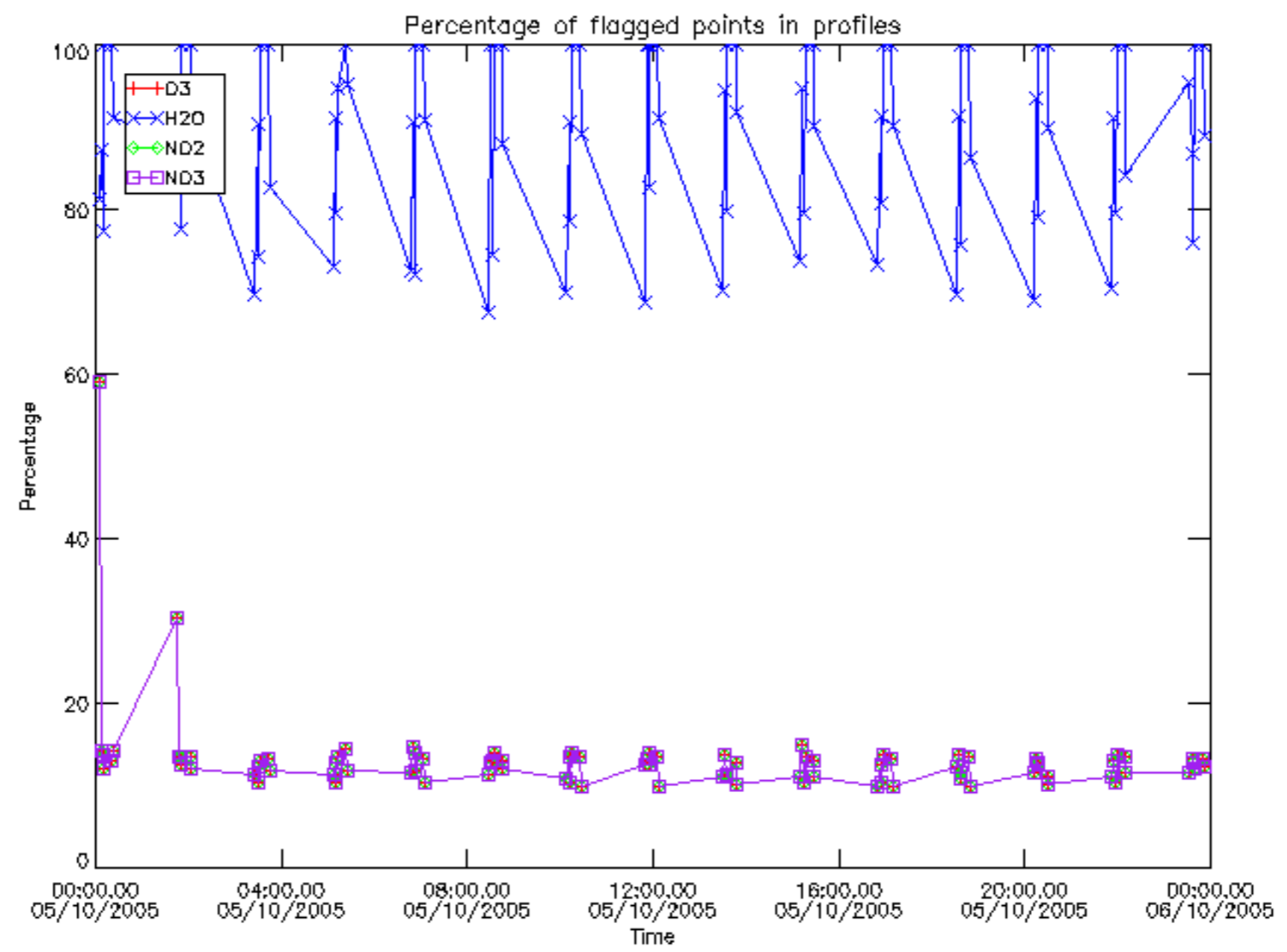
The colorbar represents the latitude.



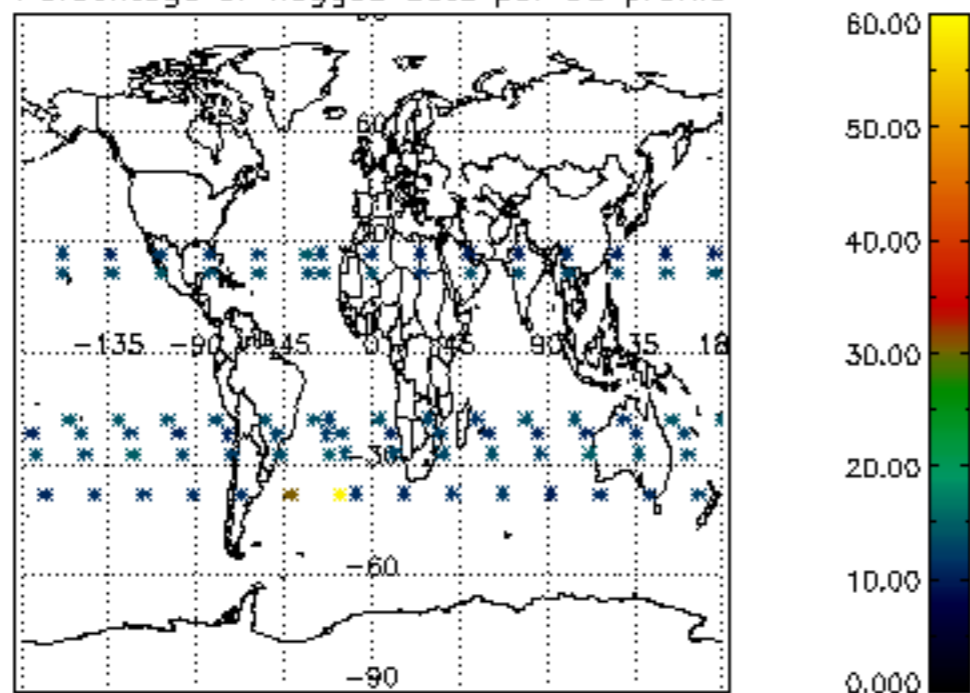
6. Auxiliary Data Files used for the production reported in section 2

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.

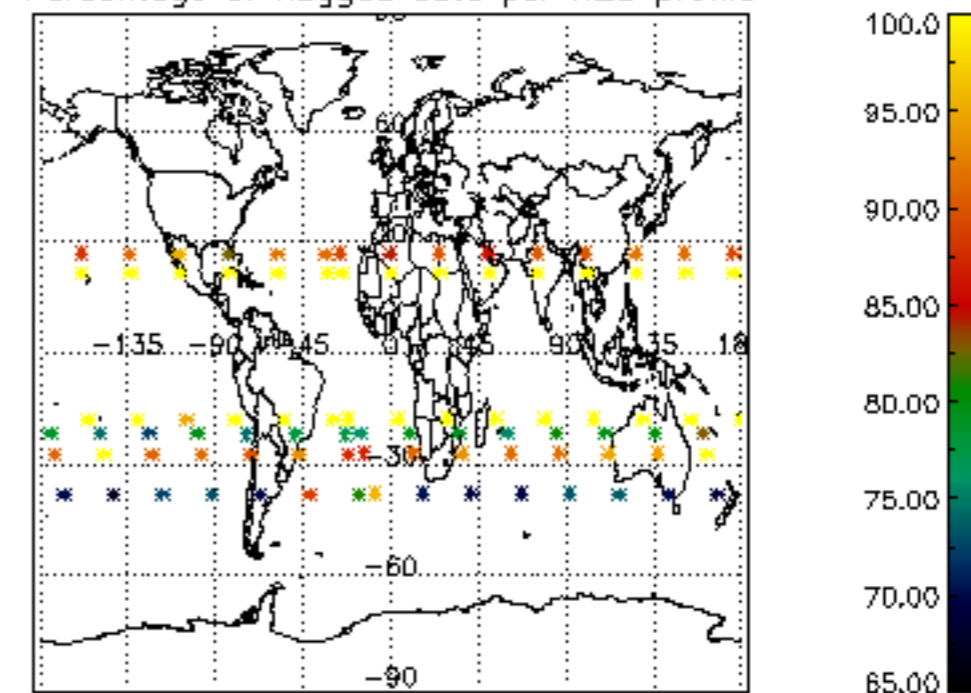
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	05-OCT-2005 00:04:31
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	05-OCT-2005 00:04:31
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	05-OCT-2005 00:04:31



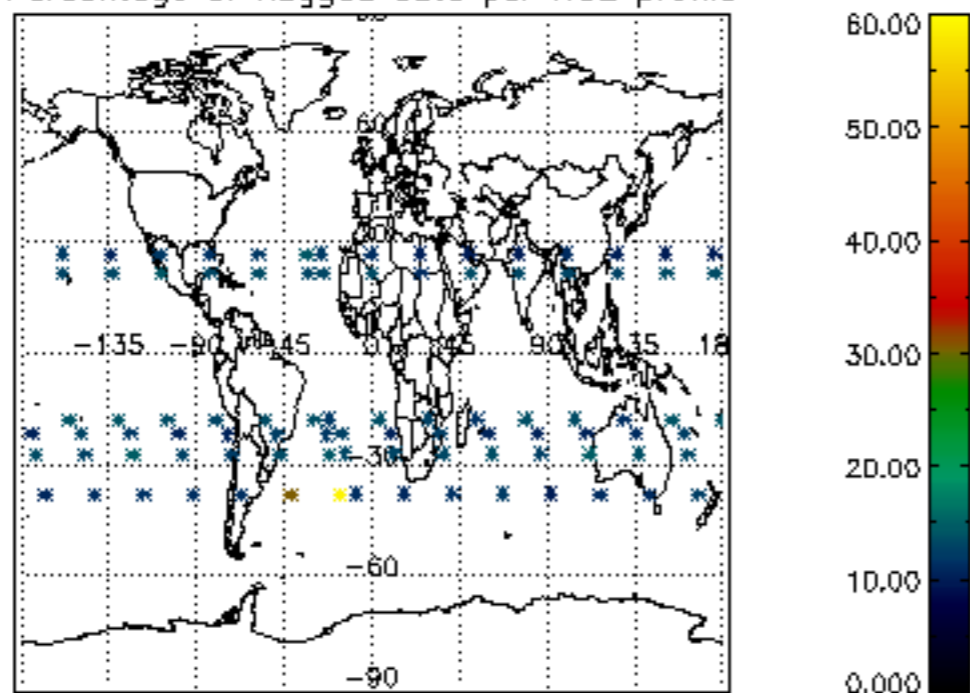
Percentage of flagged data per D3 profile



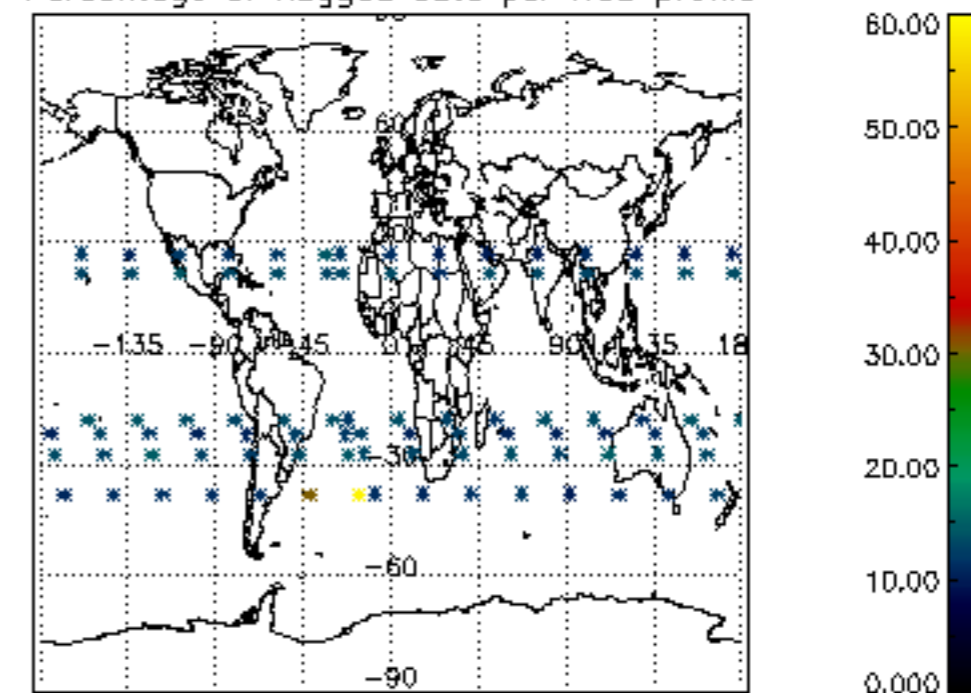
Percentage of flagged data per H2O profile

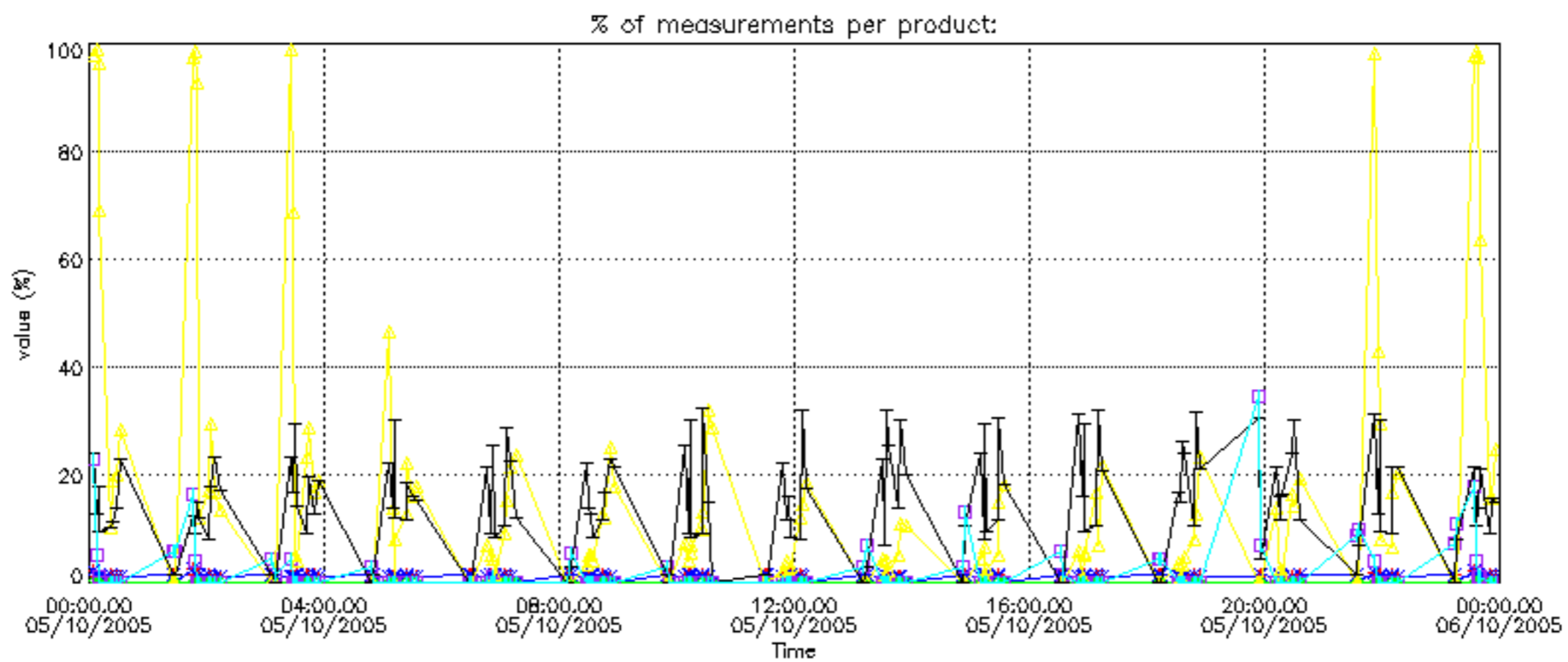


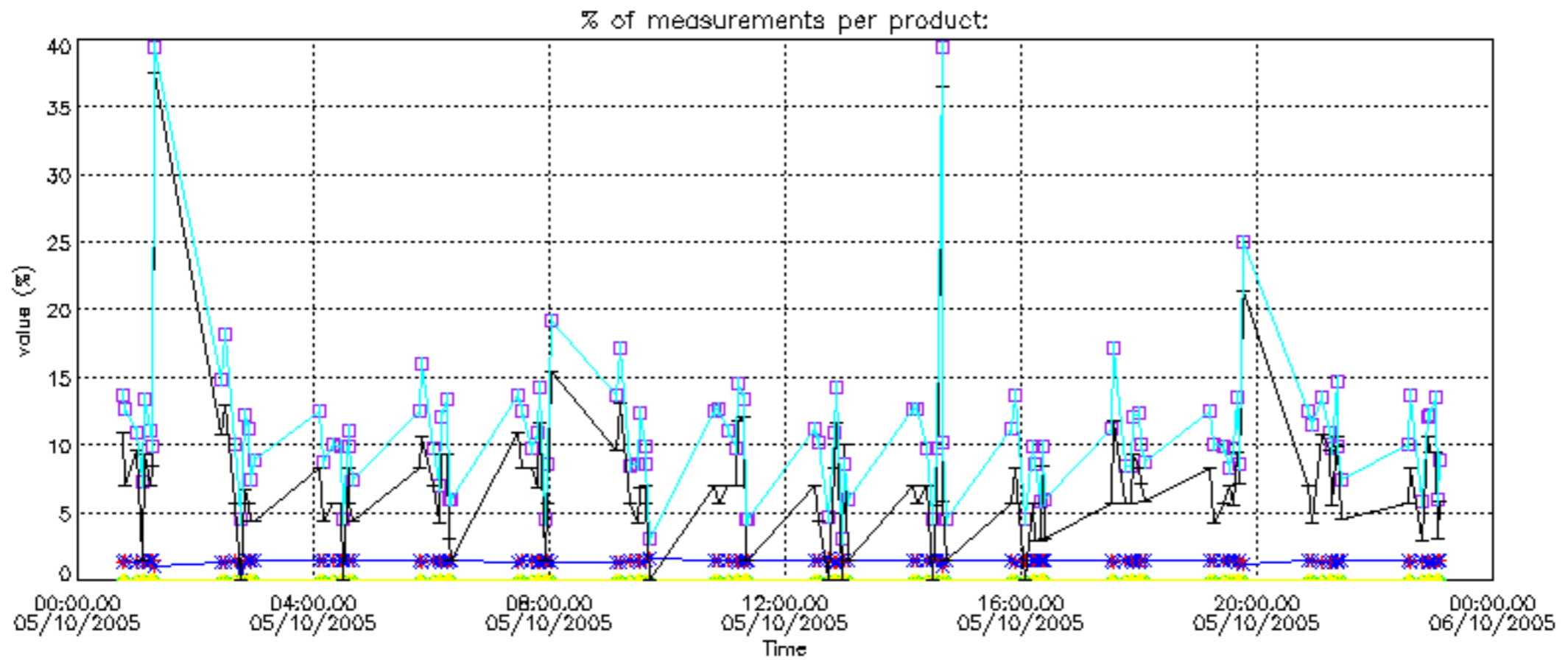
Percentage of flagged data per NO2 profile



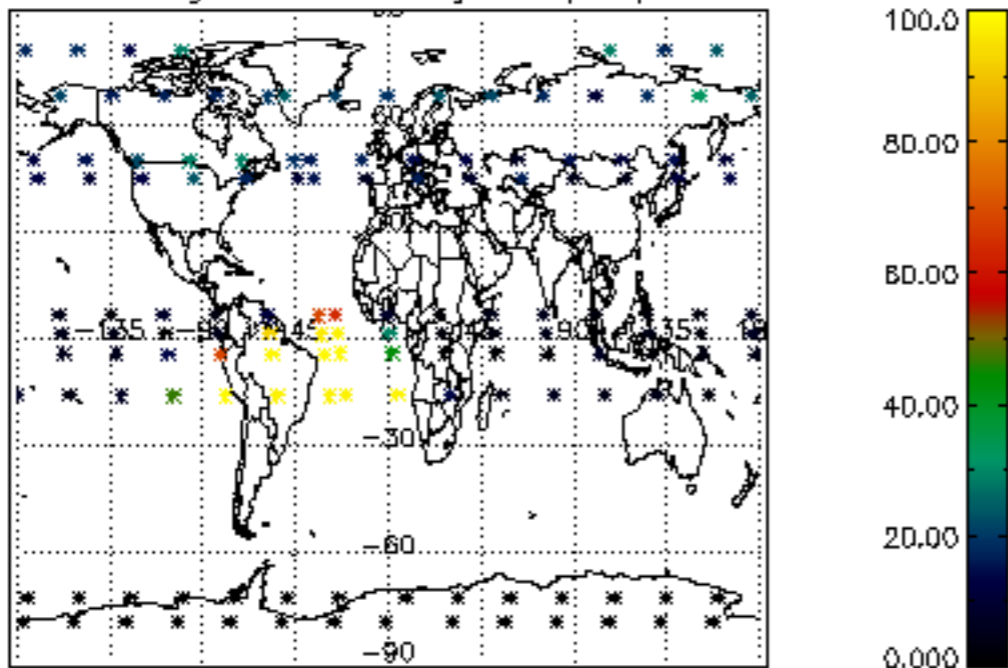
Percentage of flagged data per NO3 profile



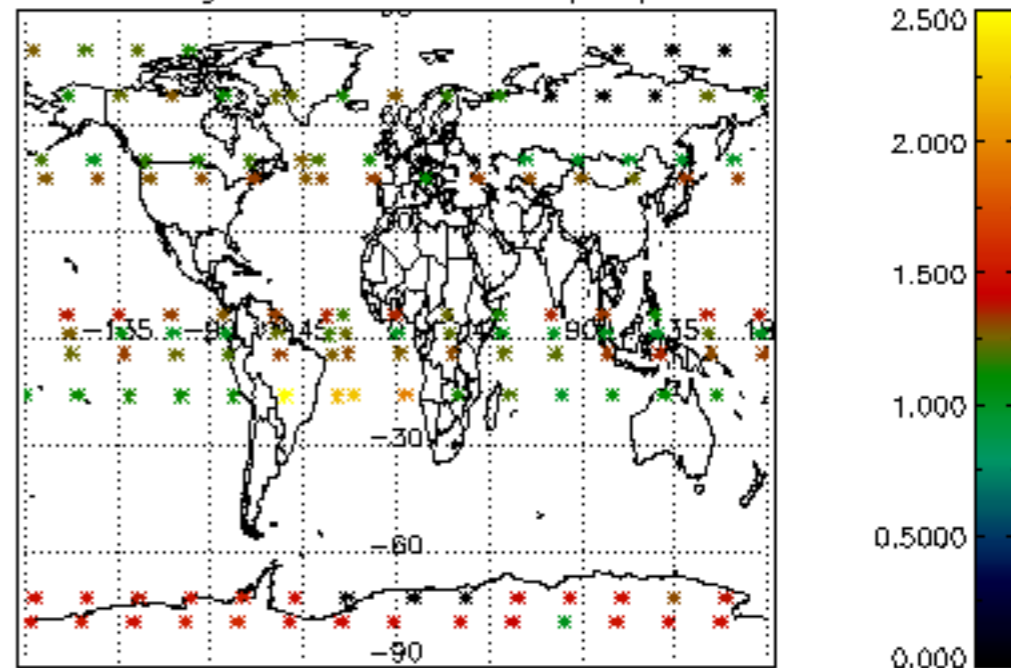




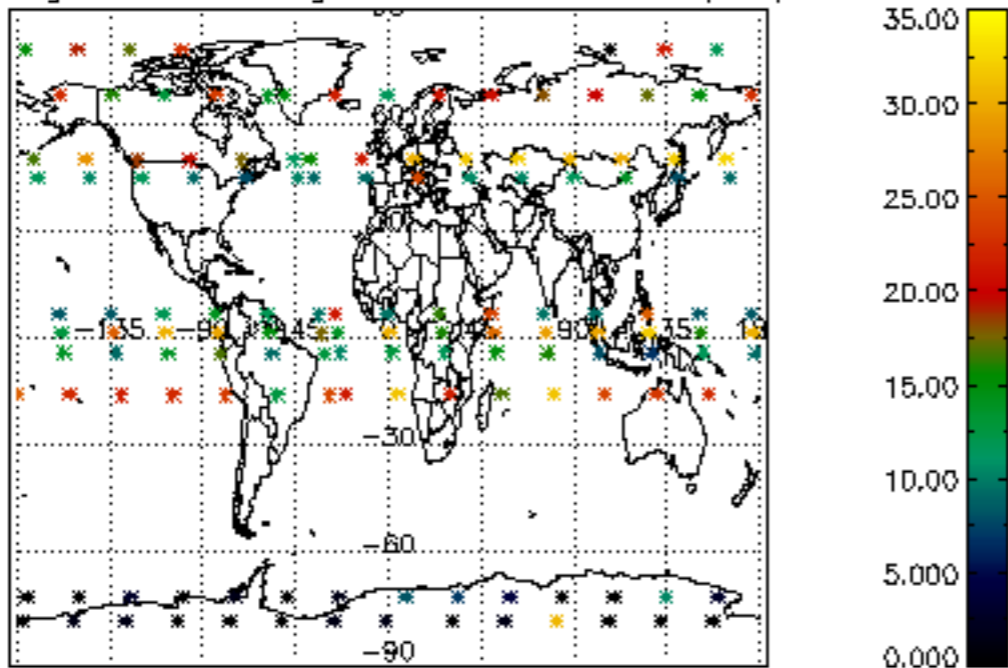
Percentage of cosmic ray hits per profile



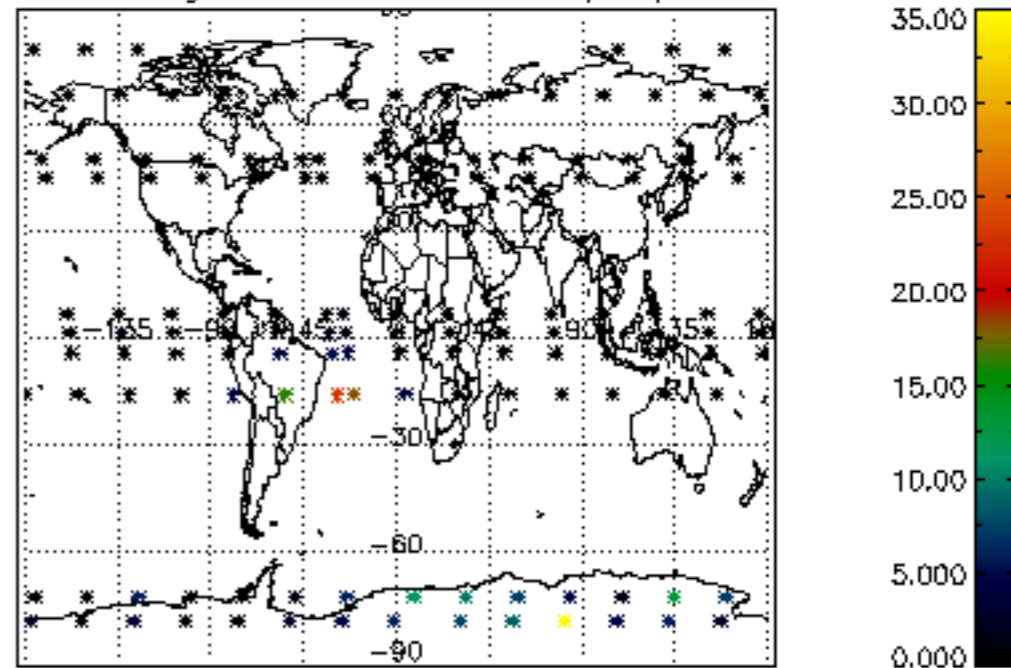
Percentage of datation errors per profile



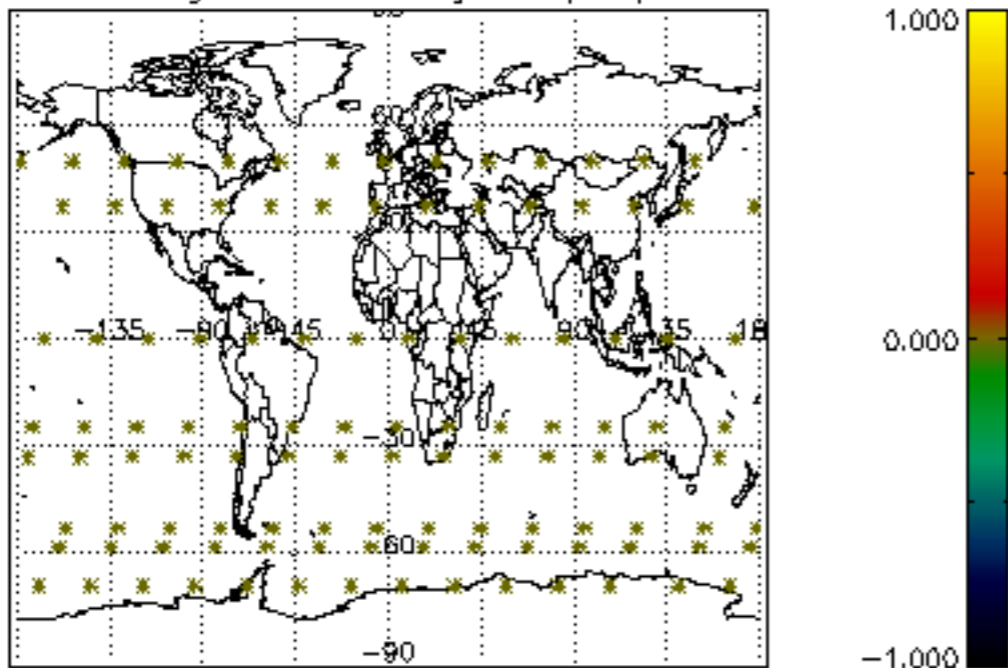
Percentage of star falling outside central band per profile



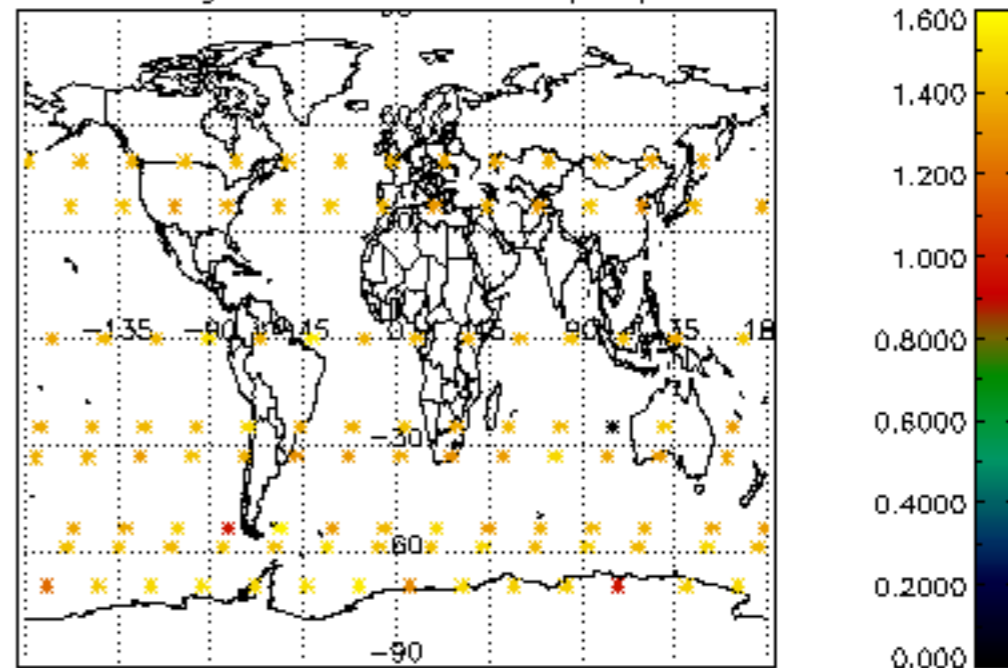
Percentage of saturation errors per profile



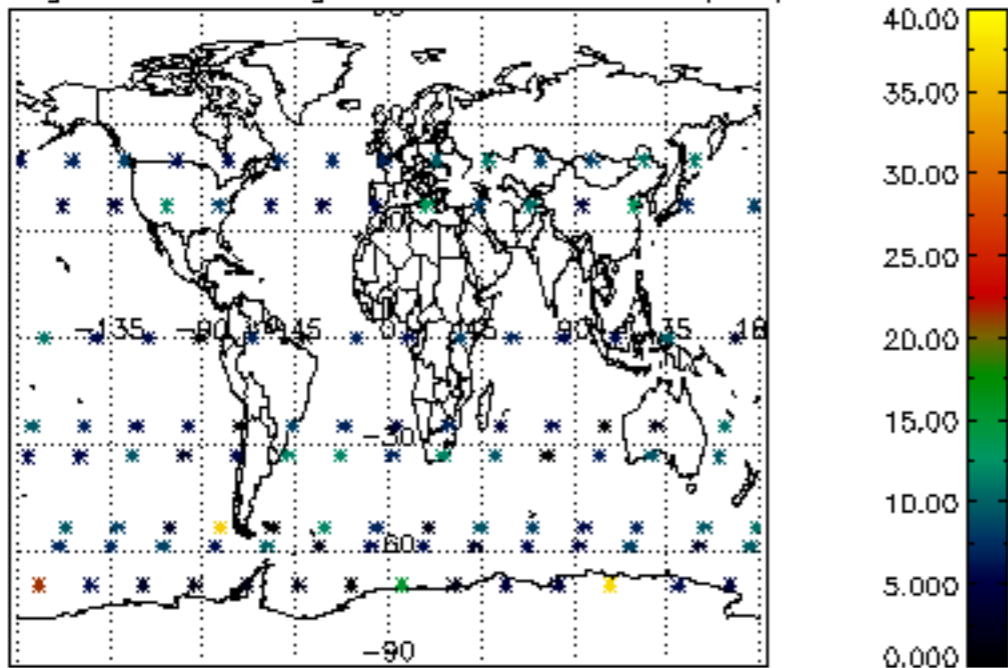
Percentage of cosmic ray hits per profile



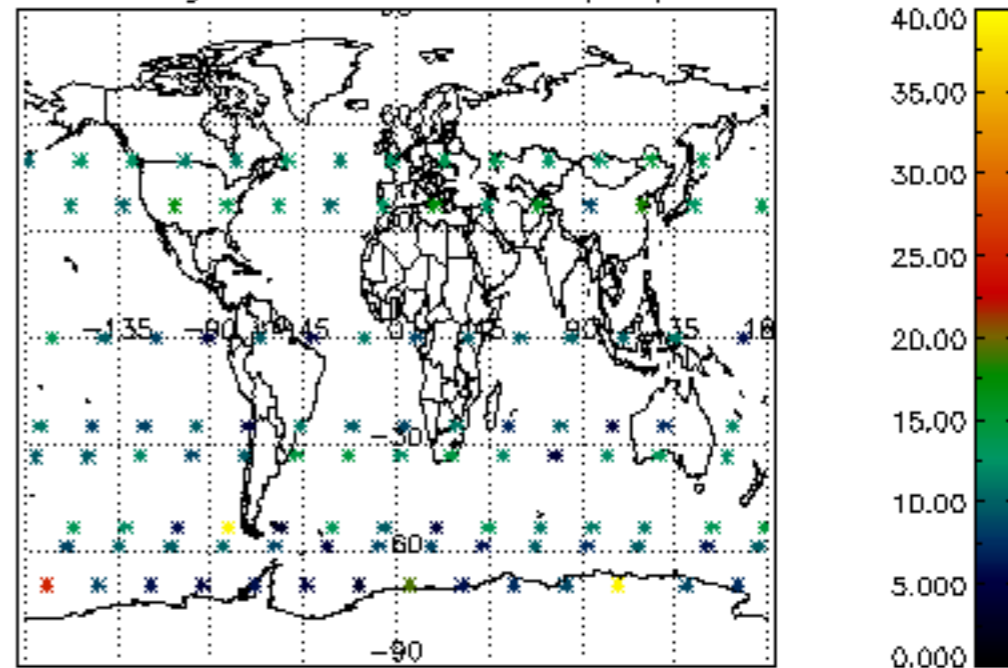
Percentage of datation errors per profile

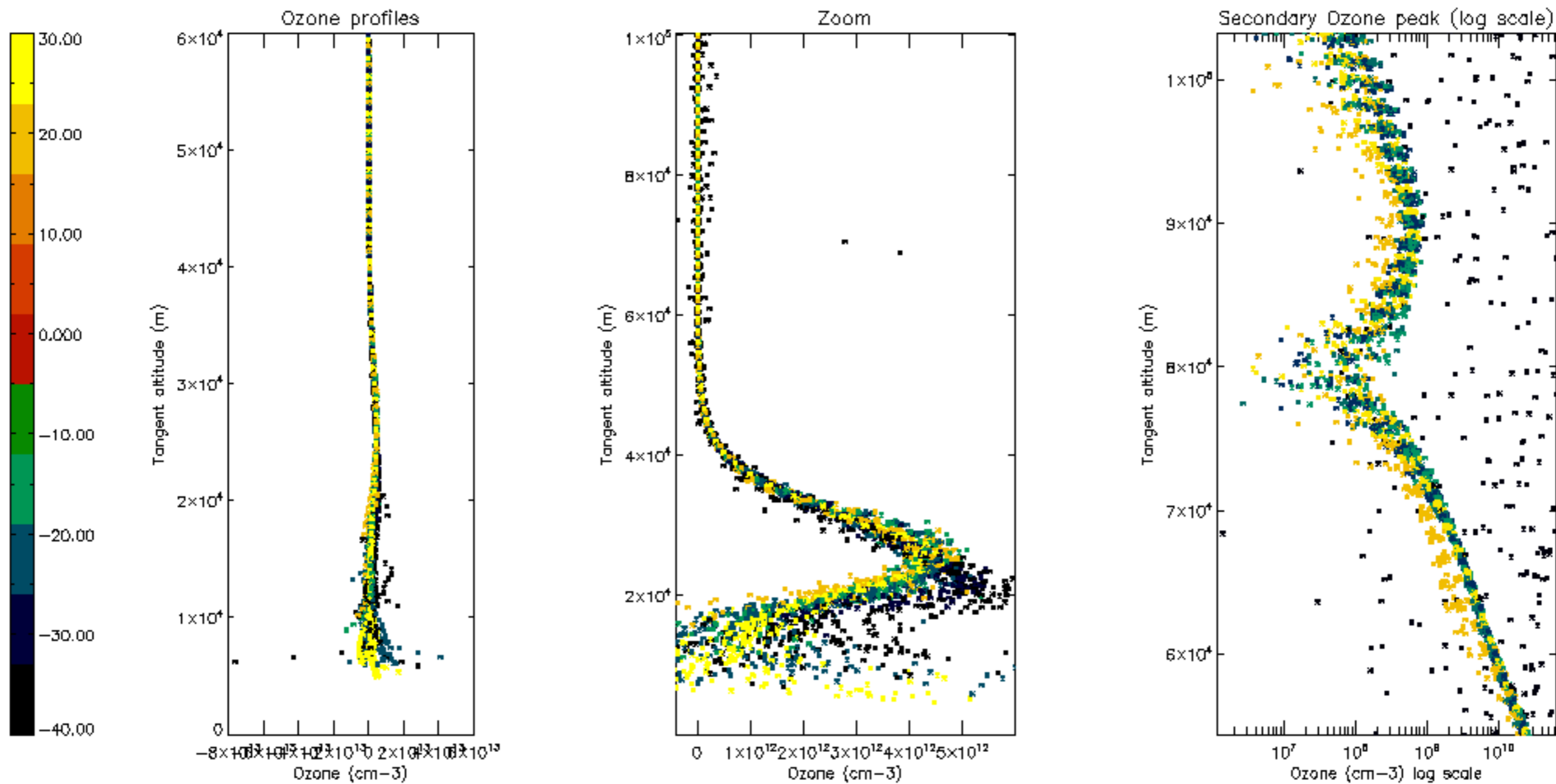


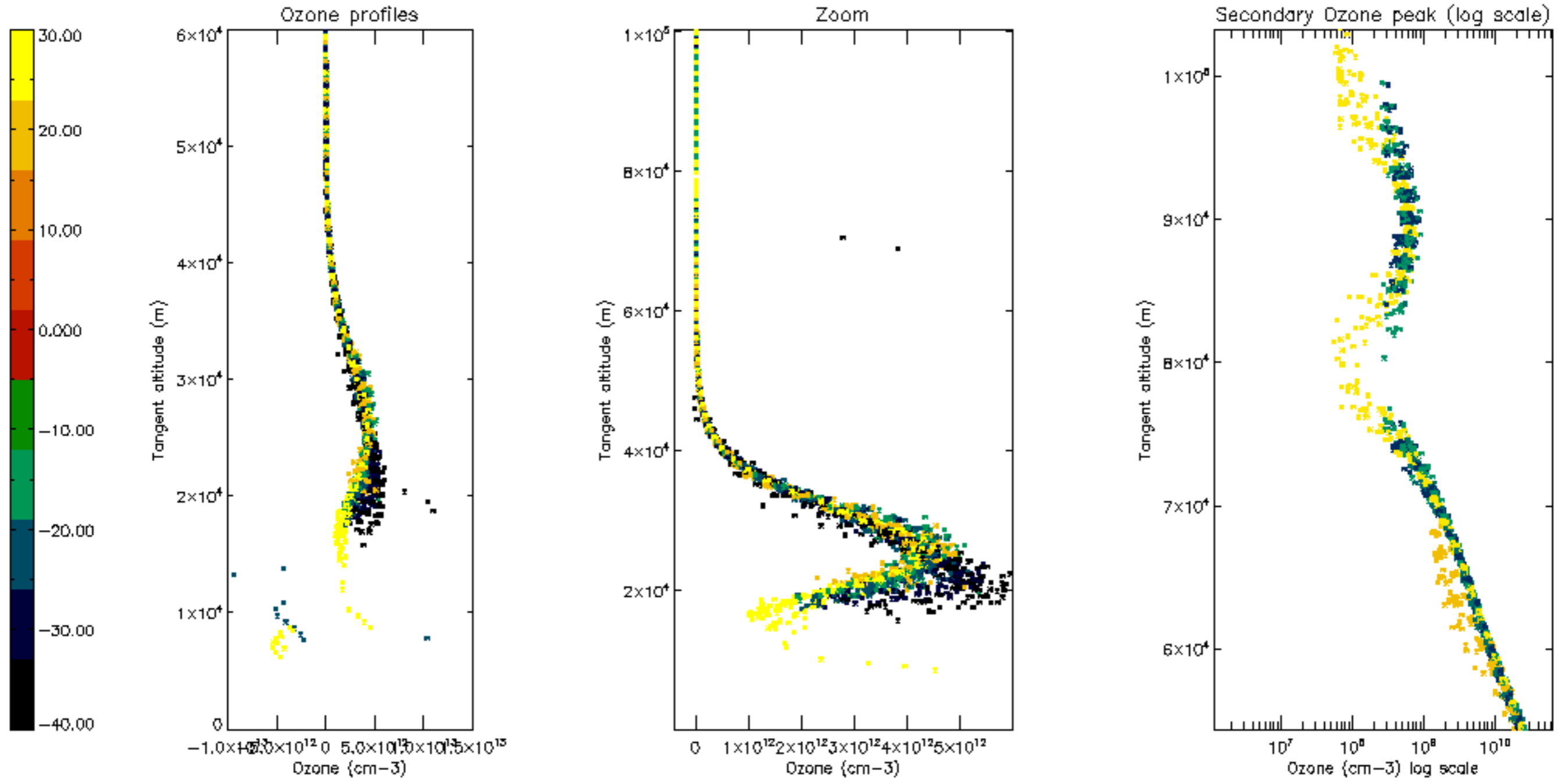
Percentage of star falling outside central band per profile

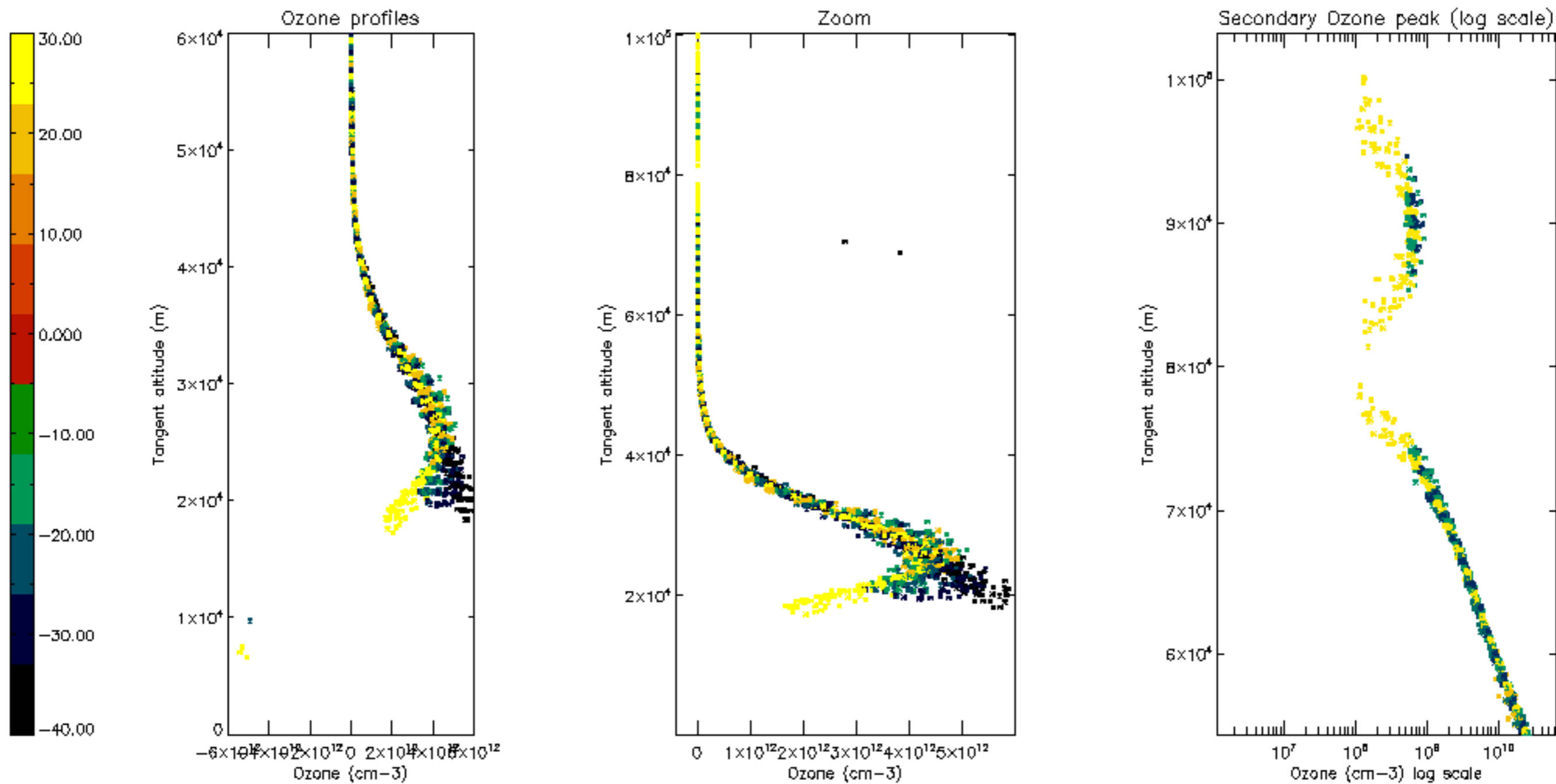


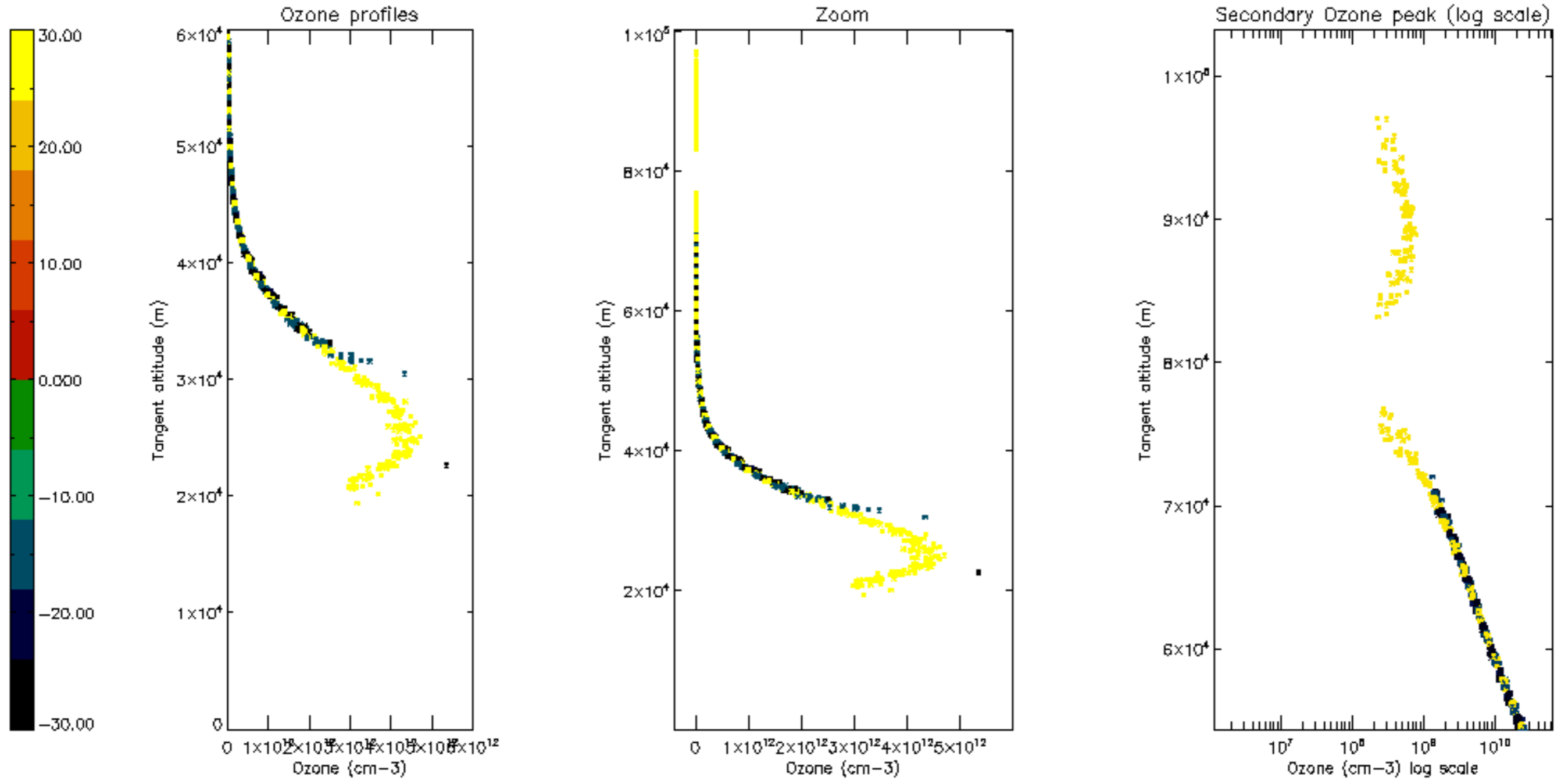
Percentage of saturation errors per profile

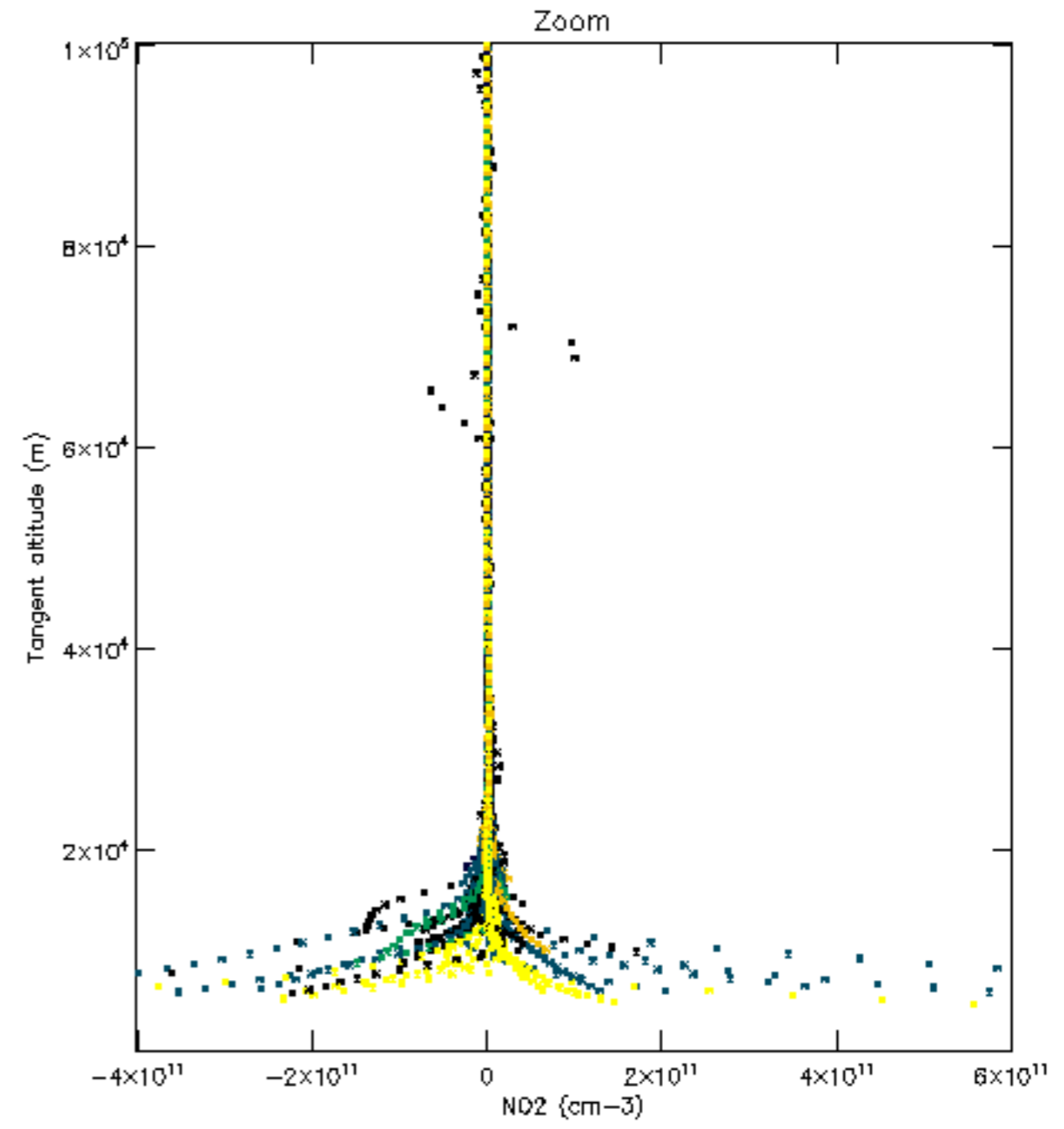
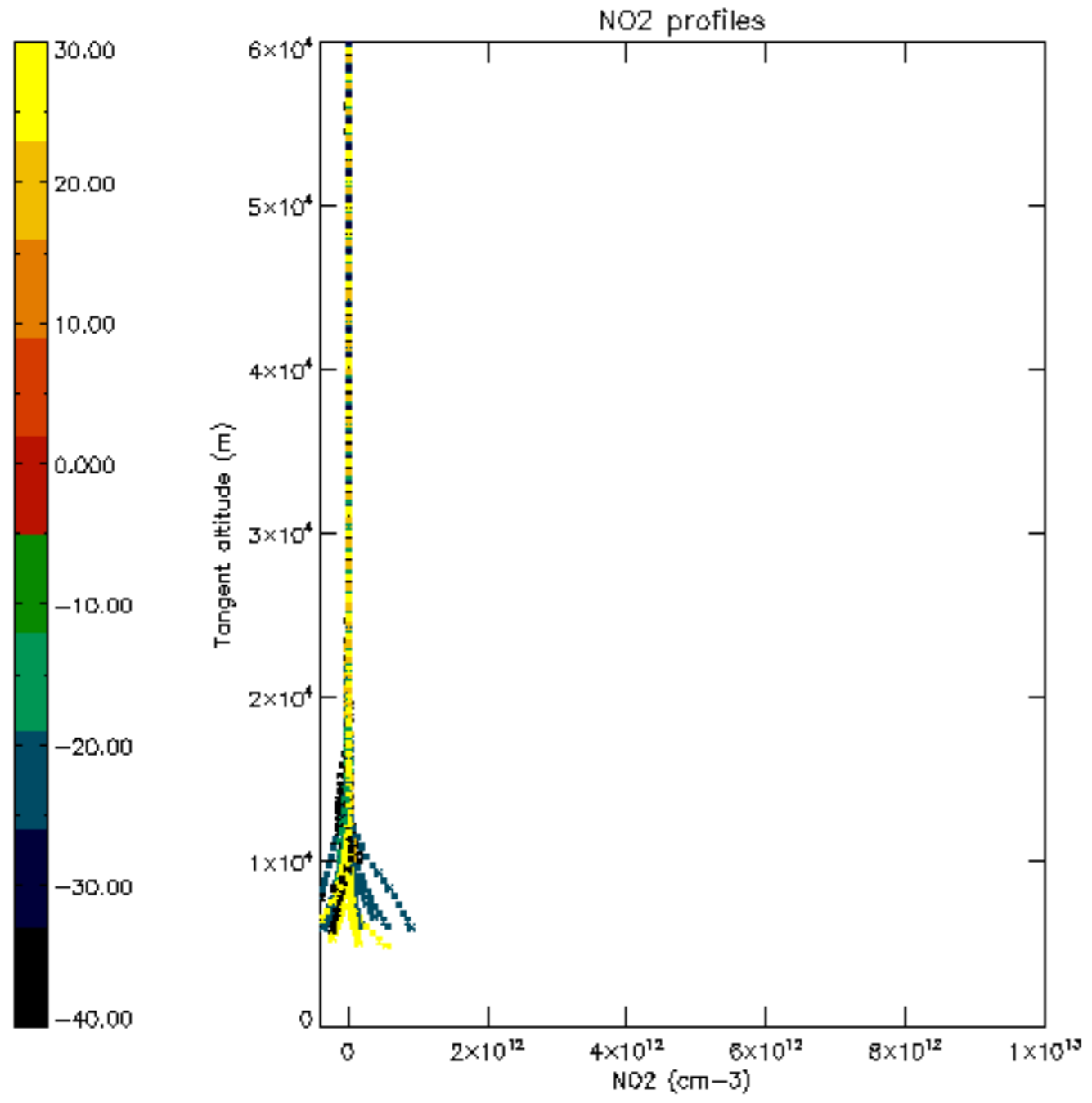


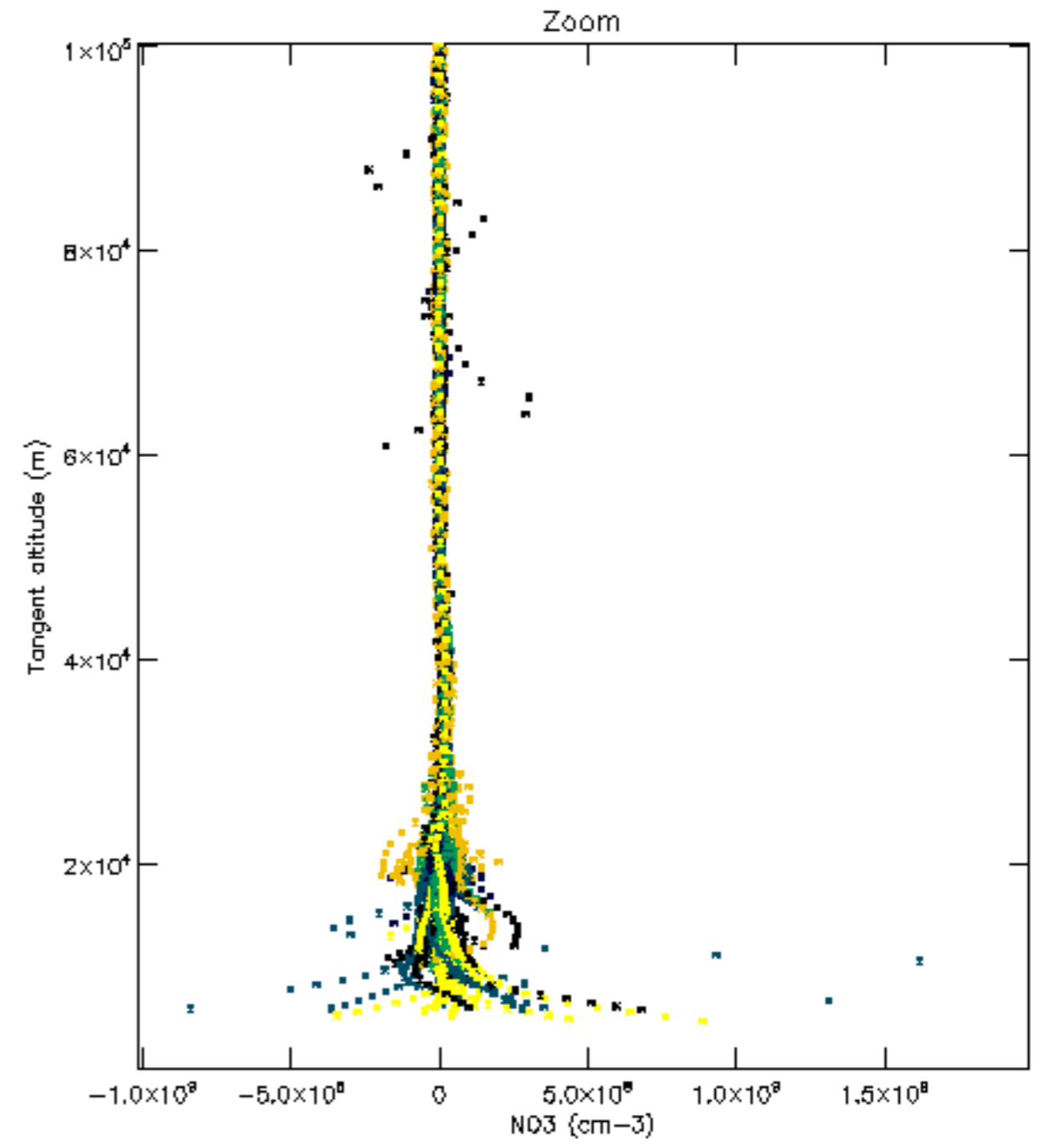
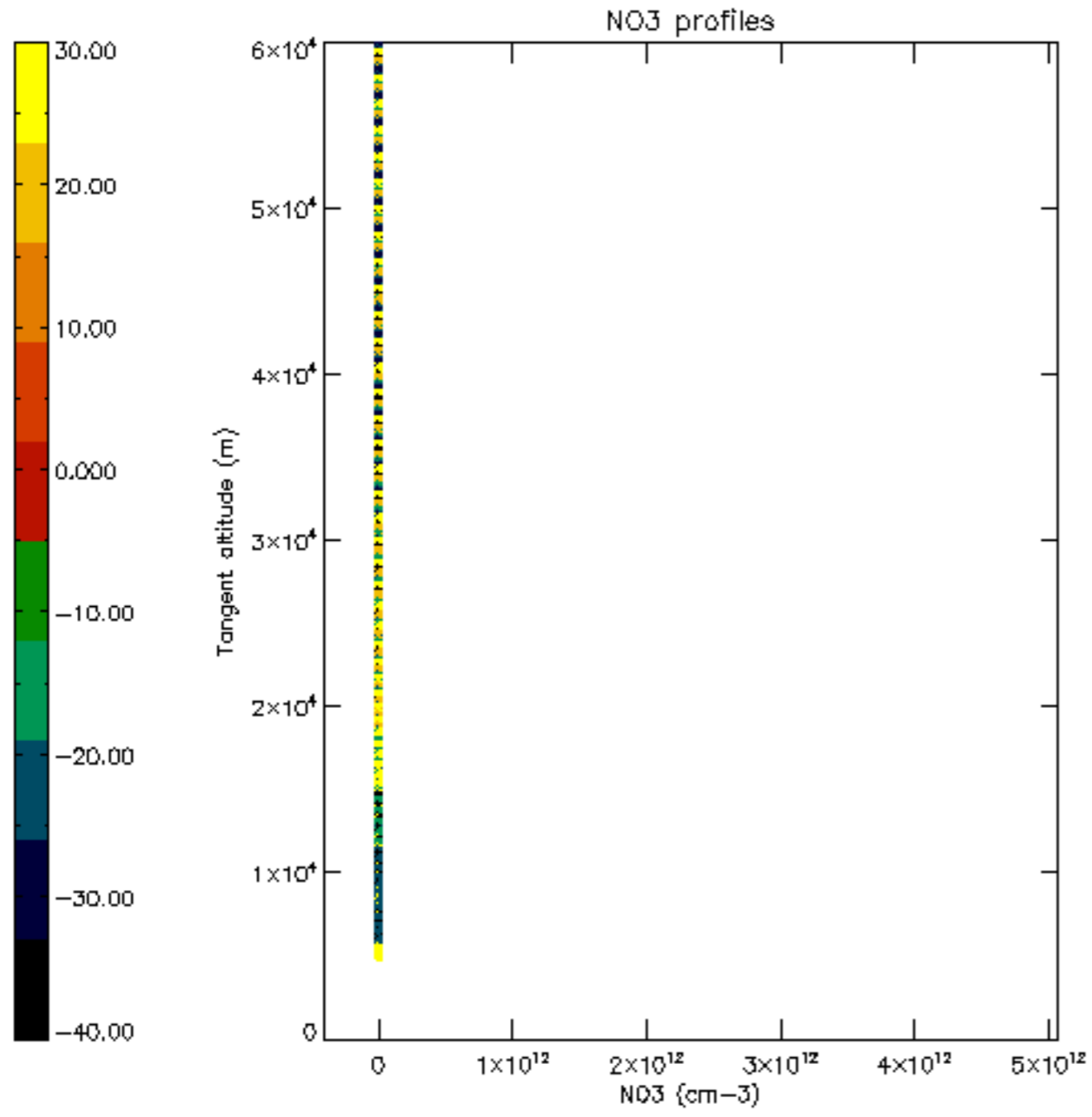


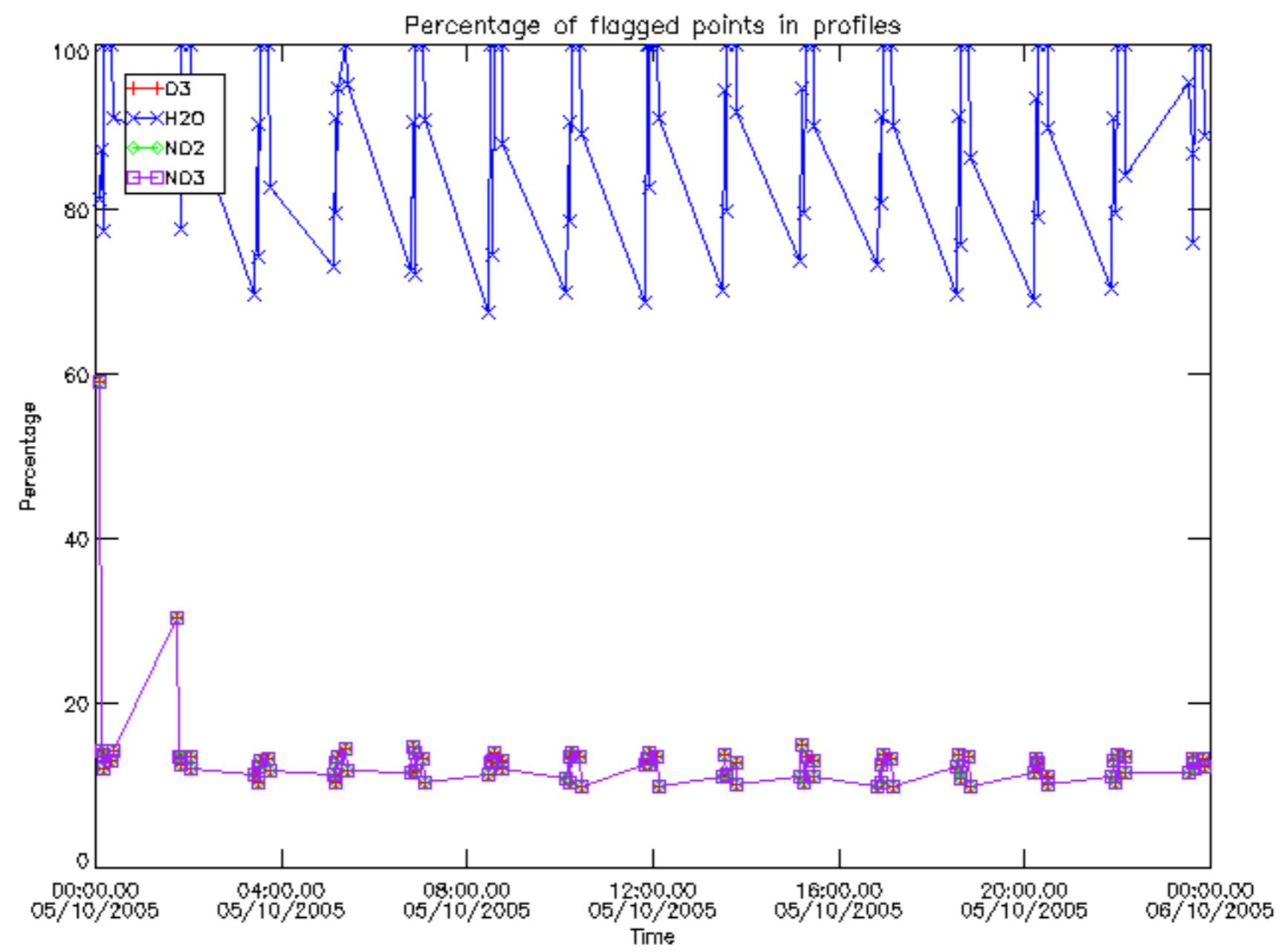




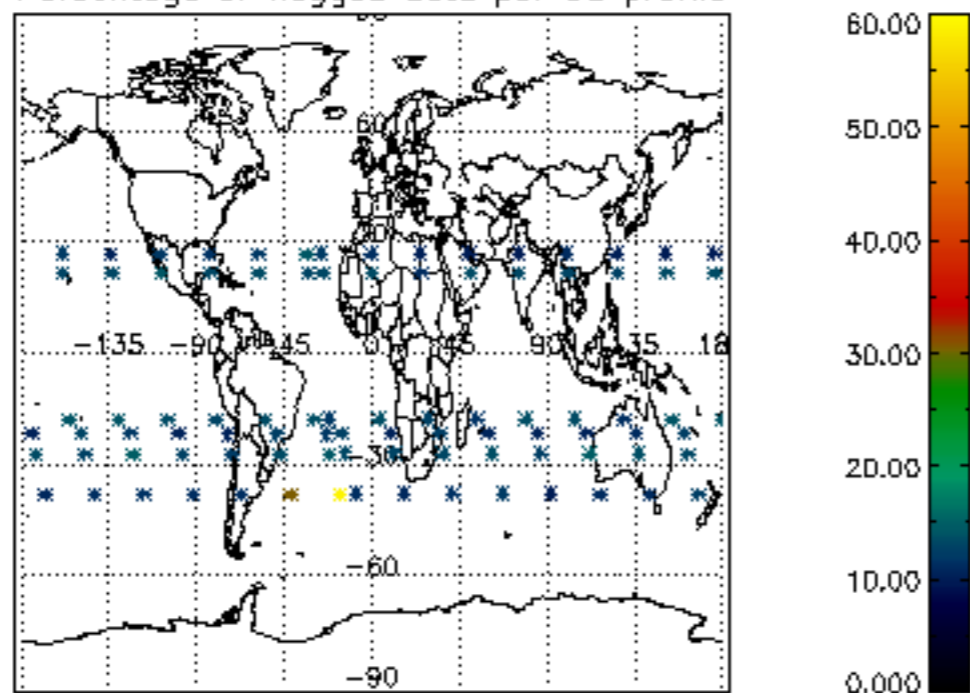




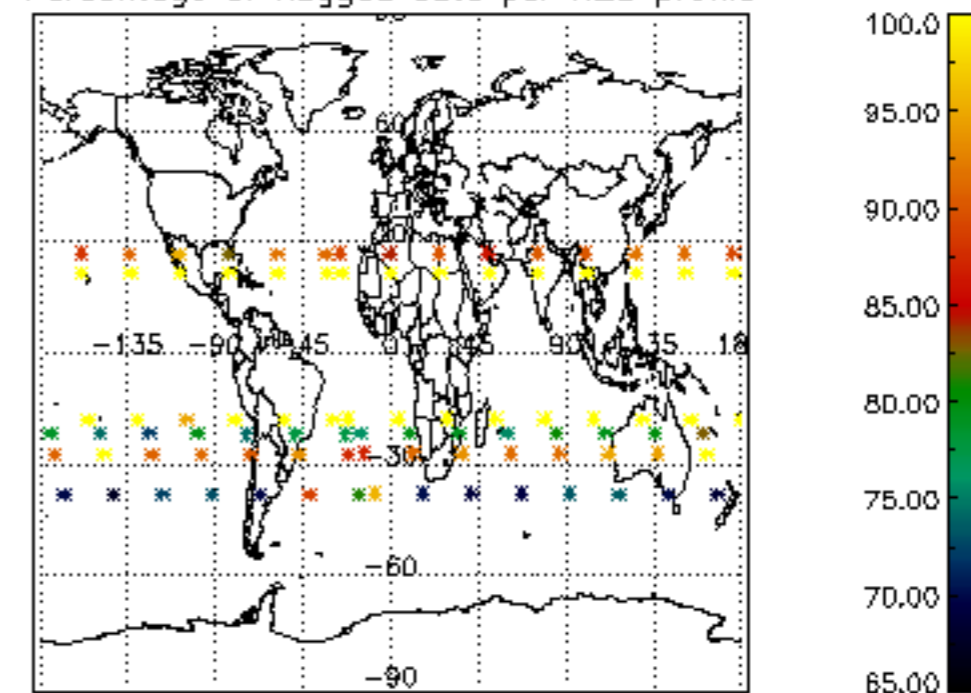




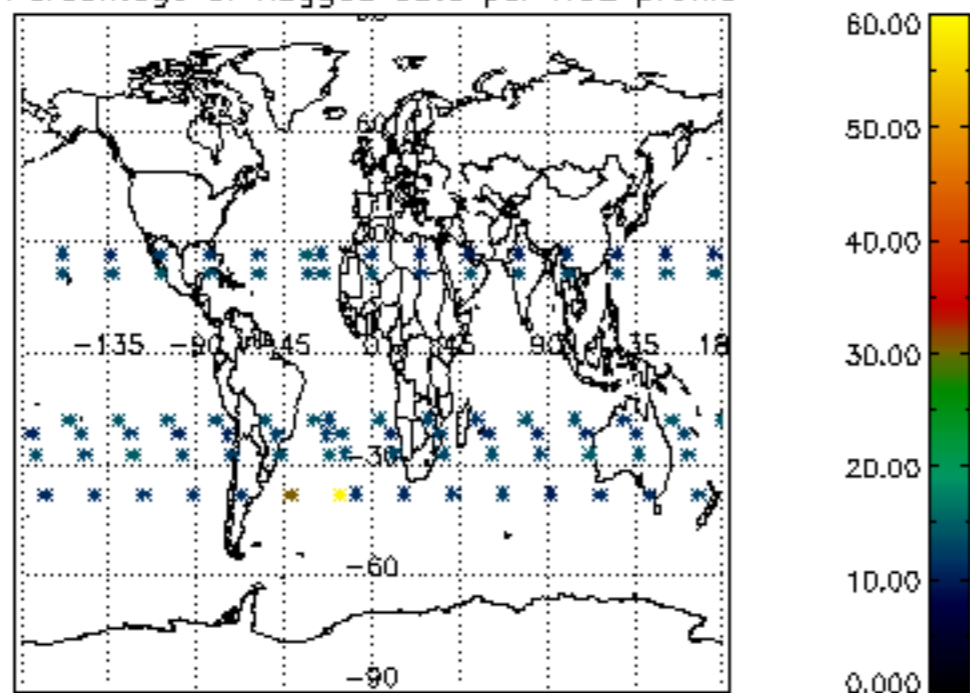
Percentage of flagged data per D3 profile



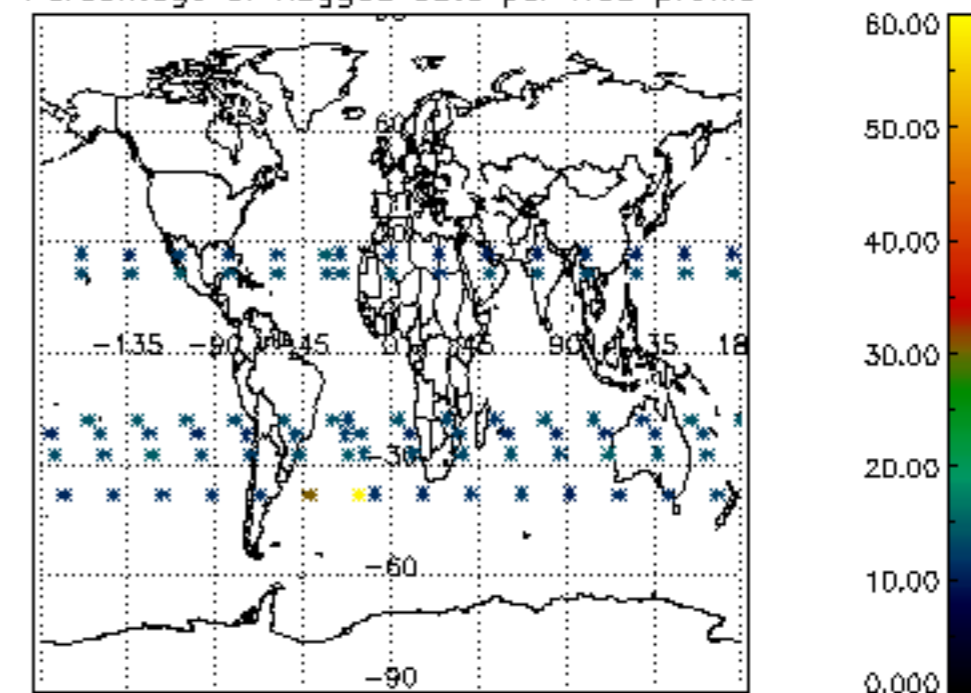
Percentage of flagged data per H2O profile

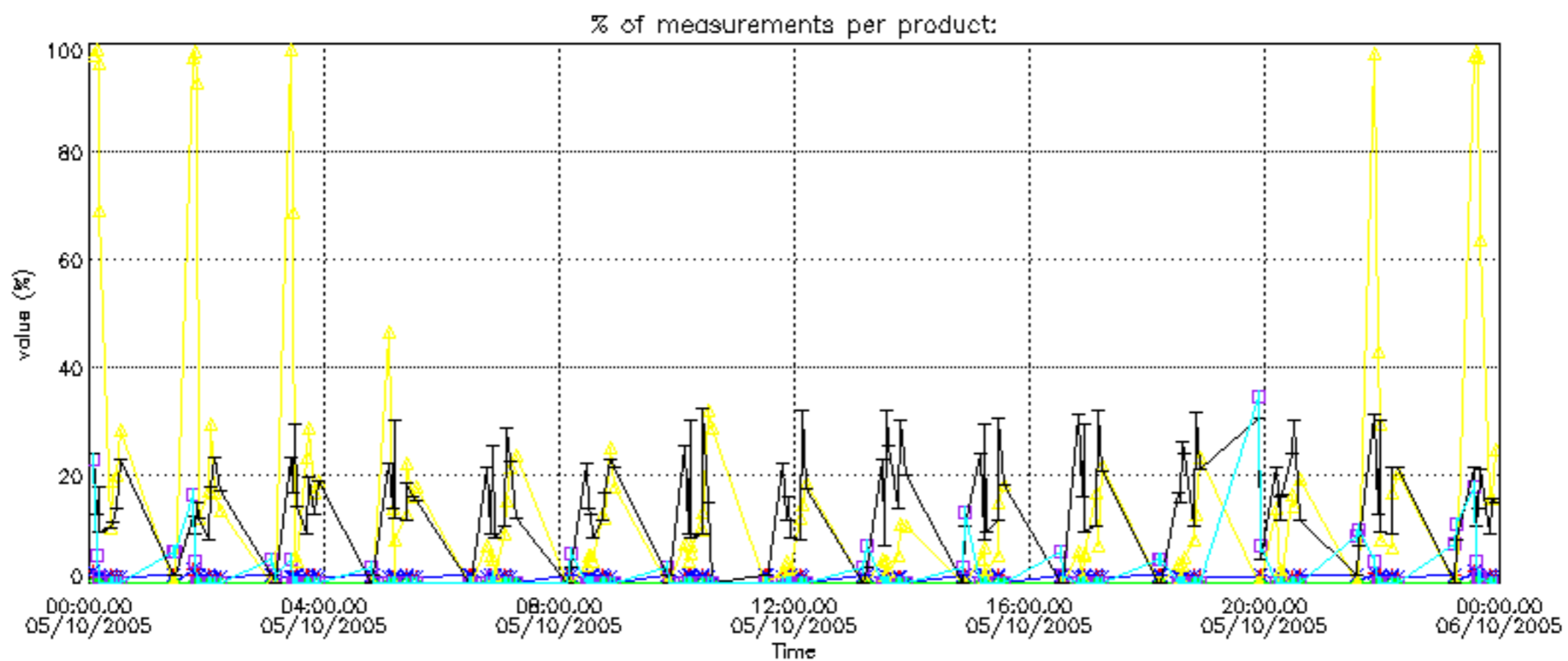


Percentage of flagged data per NO2 profile

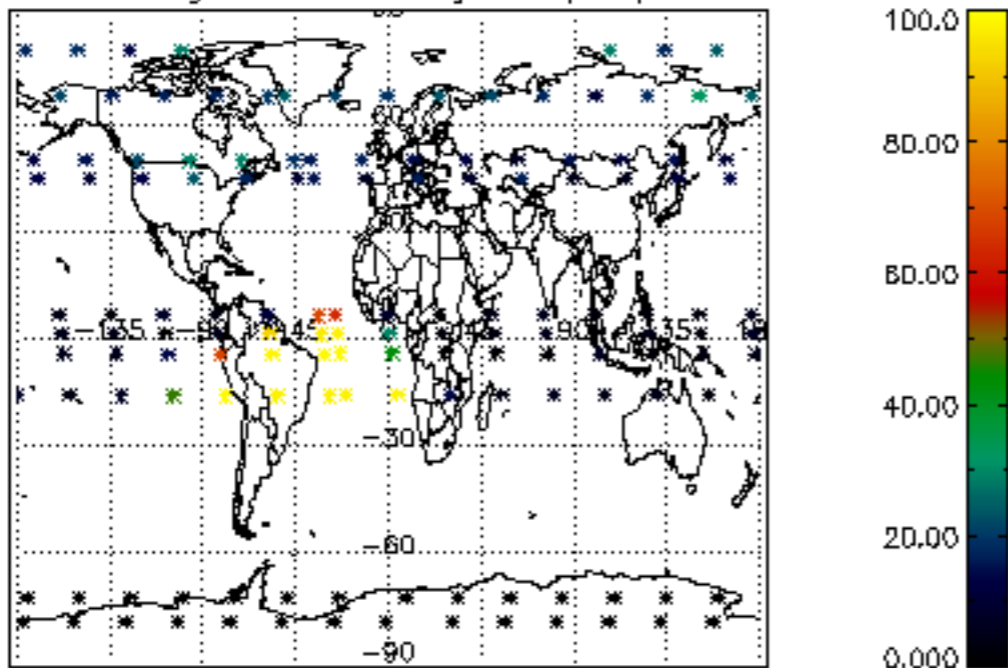


Percentage of flagged data per NO3 profile

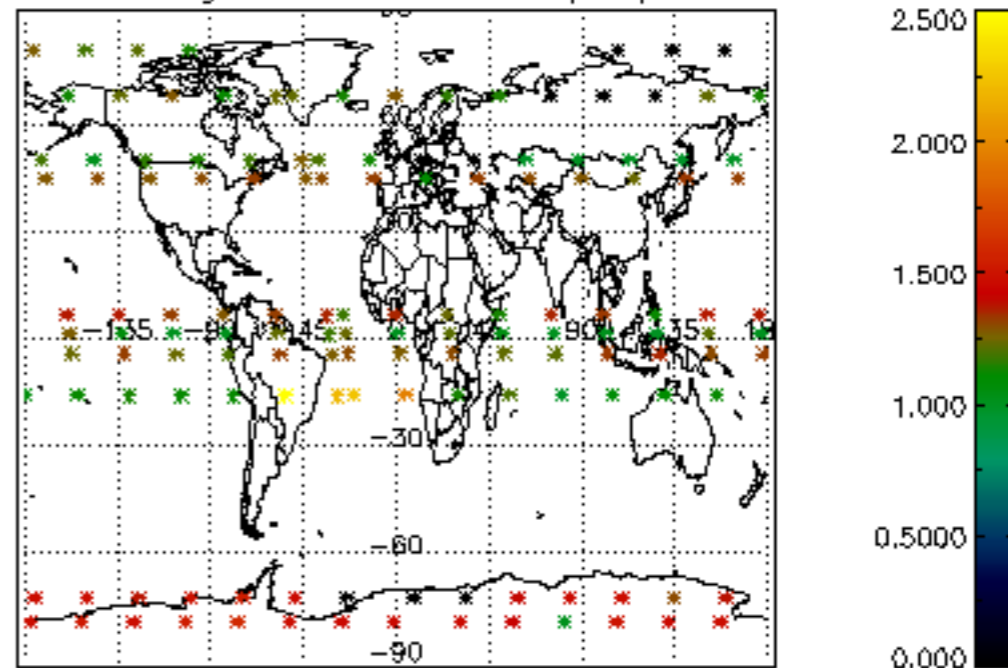




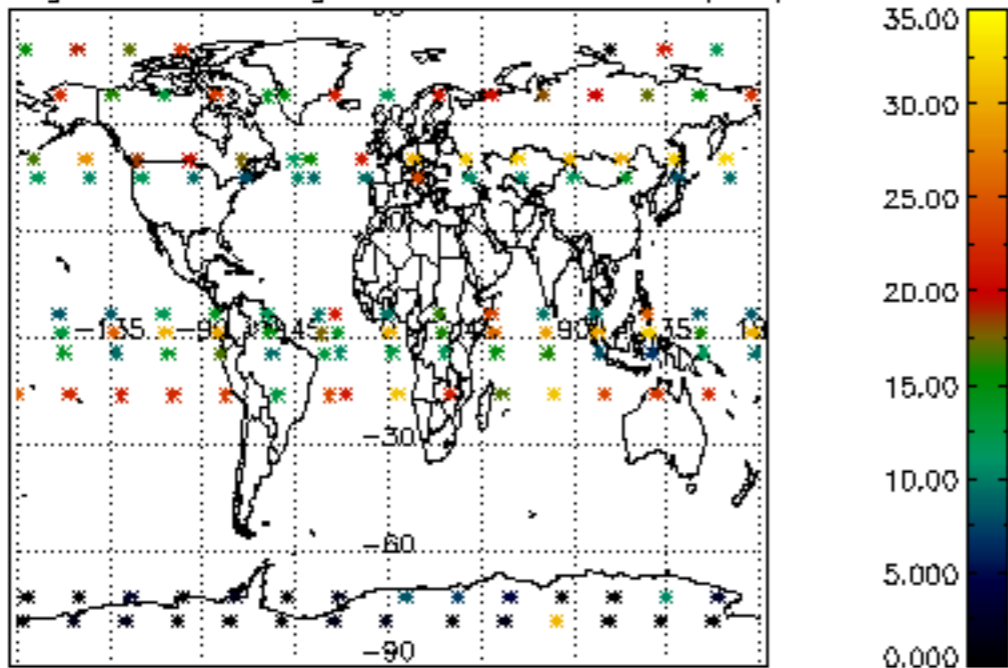
Percentage of cosmic ray hits per profile



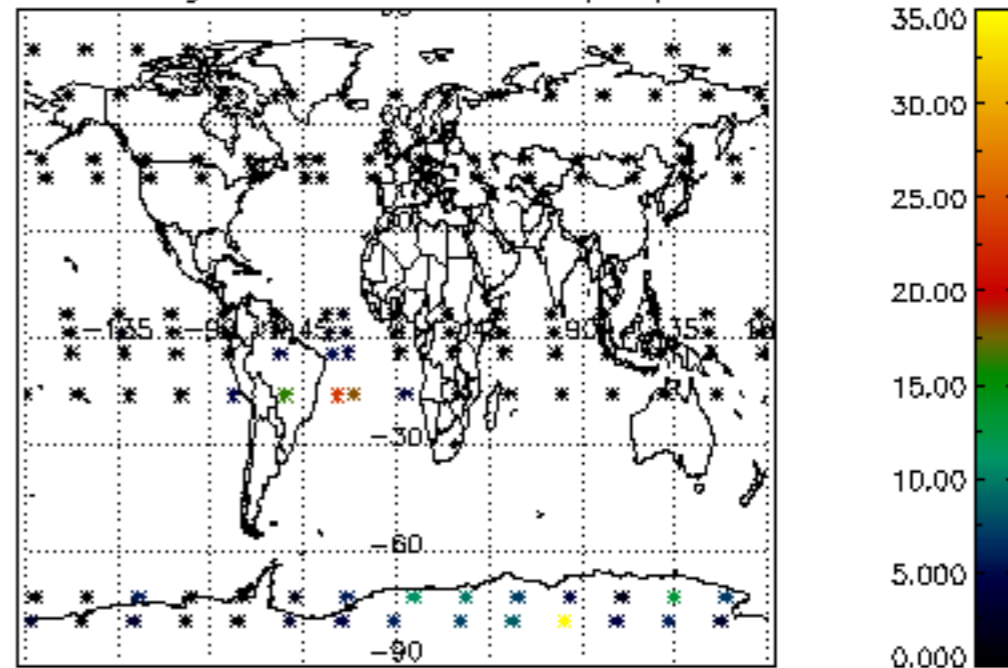
Percentage of datation errors per profile



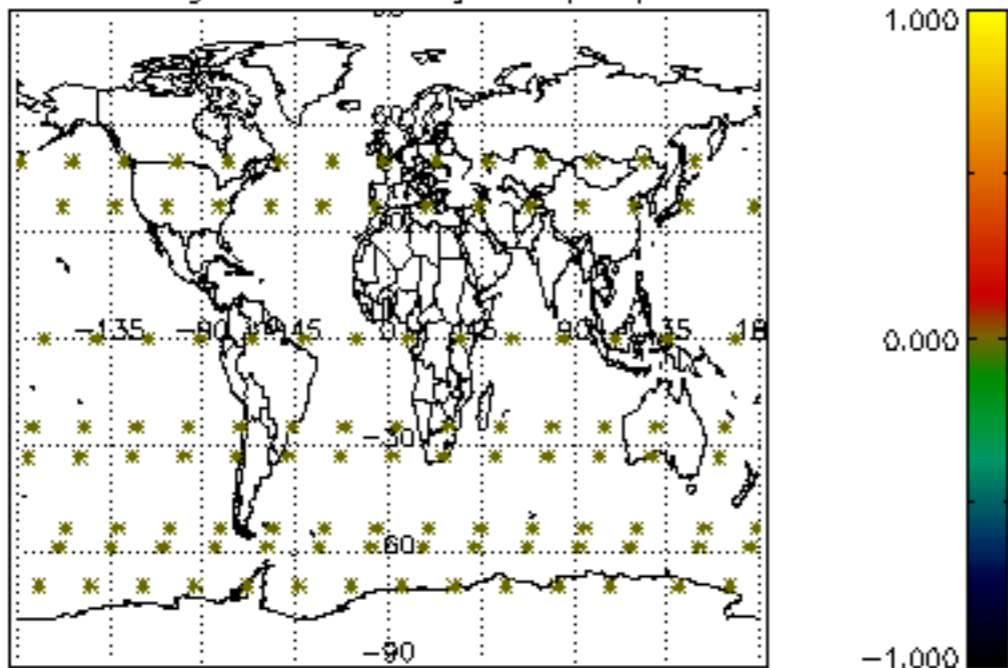
Percentage of star falling outside central band per profile



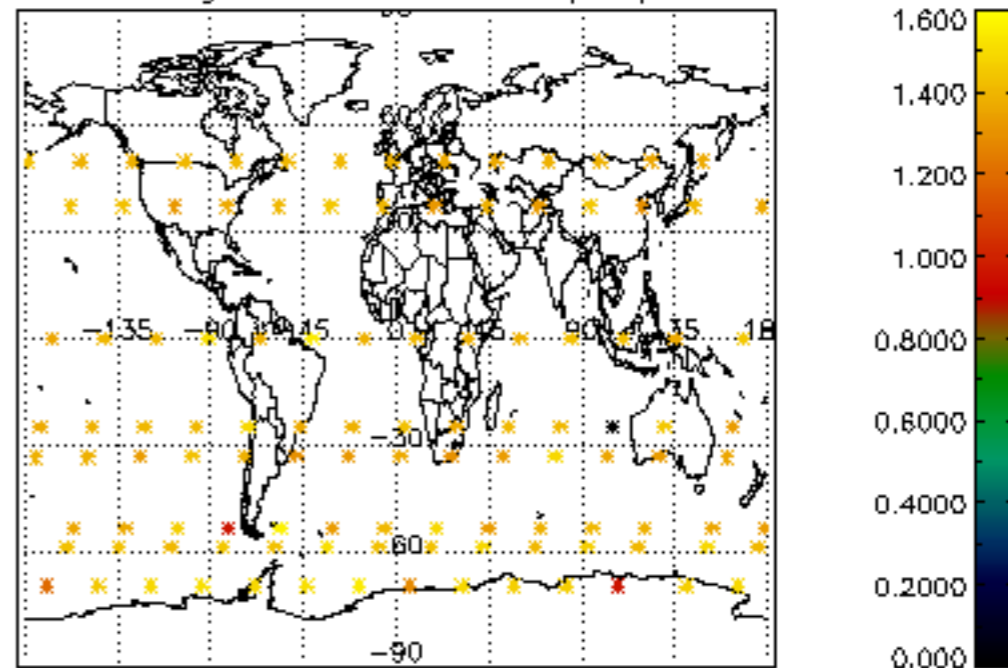
Percentage of saturation errors per profile



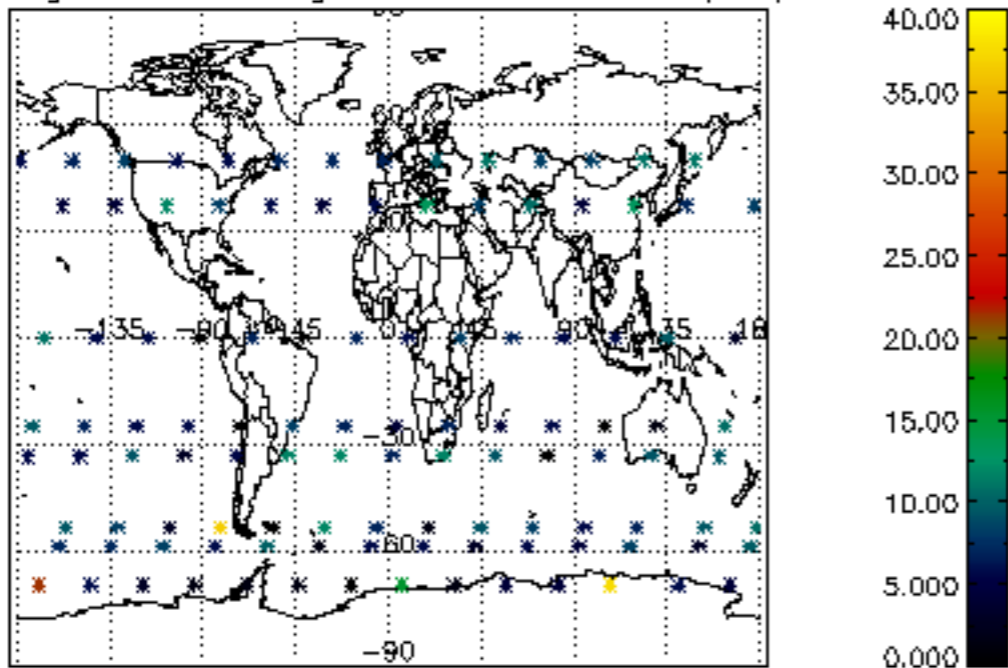
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

