

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

[3.1 Plot of level 2 quality information per product \(time dependant\)](#)

[3.2 Plot of level 2 quality information per product \(world map\)](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Item	Value
Time of report generation	22APR2013 21:01:25
Data source version	GOMOS/6.01
Start time of products	22-06-2007 (22JUN2007 00:00:00)
Stop time of products	23-06-2007 (23JUN2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	295
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

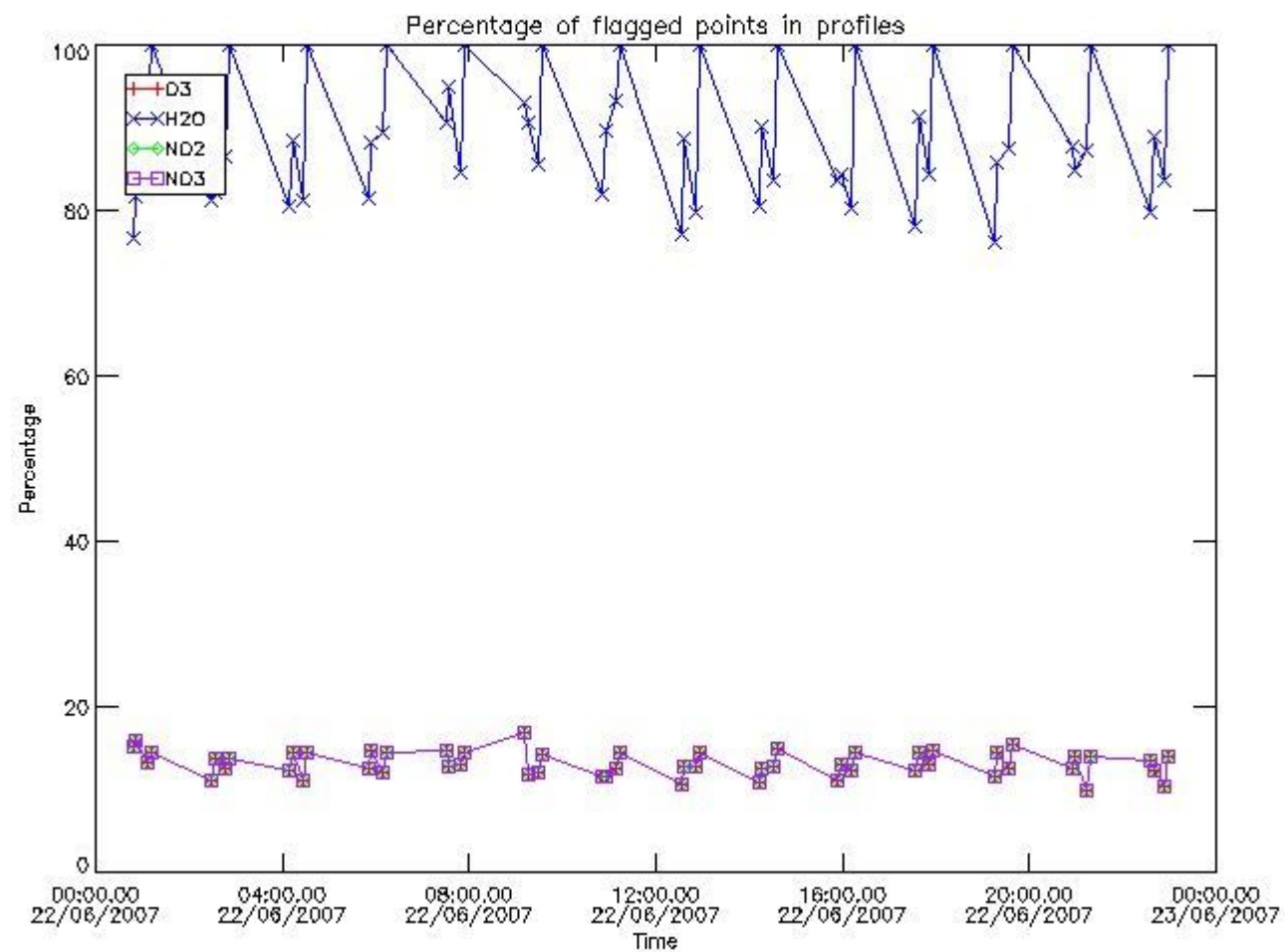
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070622_000344_000000372059_00145_27754_1928.N1	22-JUN-2007 00:03:44	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	27754	No
2	GOM_NL__2PRFIN20070622_000531_000000362059_00145_27754_1929.N1	22-JUN-2007 00:05:31	Bright	36.000	67	5Alp CrB	2.2210	11000.	72	27754	No
3	GOM_NL__2PRFIN20070622_001504_000000372059_00145_27754_1930.N1	22-JUN-2007 00:15:04	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	27754	No
4	GOM_NL__2PRFIN20070622_001846_000000372059_00145_27754_1931.N1	22-JUN-2007 00:18:46	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	27754	No
5	GOM_NL__2PRFIN20070622_002316_000000342059_00145_27754_1932.N1	22-JUN-2007 00:23:16	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	27754	No
6	GOM_NL__2PRFIN20070622_003335_000000352059_00145_27754_1933.N1	22-JUN-2007 00:33:35	Bright	35.000	160	23Gam Per	2.9300	4700.0	70	27754	No
7	GOM_NL__2PRFIN20070622_004759_000000372059_00145_27754_1934.N1	22-JUN-2007 00:47:59	Dark	37.000	94	92Alp Cet	2.5260	3100.0	74	27754	No
8	GOM_NL__2PRFIN20070622_005204_000000392059_00145_27754_1935.N1	22-JUN-2007 00:52:04	Dark	38.500	165	34Gam Eri	2.9500	3200.0	77	27754	No
9	GOM_NL__2PRFIN20070622_010602_000000392059_00145_27754_1936.N1	22-JUN-2007 01:06:02	Dark	38.500	9	Alp Eri	0.45300	24000.	77	27754	No
10	GOM_NL__2PRFIN20070622_011113_000000362059_00146_27755_1928.N1	22-JUN-2007 01:11:13	Dark	35.500	135	Bet Hyi	2.8200	5800.0	71	27755	No
11	GOM_NL__2PRFIN20070622_012215_000000392059_00146_27755_1929.N1	22-JUN-2007 01:22:15	Straylight	39.000	141	Bet Ara	2.8400	4600.0	78	27755	No
12	GOM_NL__2PRFIN20070622_012339_000000402059_00146_27755_1930.N1	22-JUN-2007 01:23:39	Straylight	39.500	147	Alp Ara	2.8770	26000.	79	27755	No
13	GOM_NL__2PRFIN20070622_012525_000000412059_00146_27755_1931.N1	22-JUN-2007 01:25:25	Twilight	41.000	40	The Sco	1.8590	7100.0	82	27755	No
14	GOM_NL__2PRFIN20070622_012707_000000432059_00146_27755_1932.N1	22-JUN-2007 01:27:07	Twilight	42.500	25	35Lam Sco	1.6200	28000.	85	27755	No
15	GOM_NL__2PRFIN20070622_012828_000000482059_00146_27755_1933.N1	22-JUN-2007 01:28:28	Bright	48.000	75	26Eps Sco	2.2910	4250.0	96	27755	No
16	GOM_NL__2PRFIN20070622_013112_000000362059_00146_27755_1934.N1	22-JUN-2007 01:31:12	Bright	36.000	156	20Sig Sco	2.9030	28000.	72	27755	No
17	GOM_NL__2PRFIN20070622_013330_000000382059_00146_27755_1935.N1	22-JUN-2007 01:33:30	Bright	38.000	86	35Eta Oph	2.4300	10200.	76	27755	No
18	GOM_NL__2PRFIN20070622_013514_000000372059_00146_27755_1936.N1	22-JUN-2007 01:35:14	Bright	36.500	98	13Zet Oph	2.5710	30000.	73	27755	No
19	GOM_NL__2PRFIN20070622_013720_000000362059_00146_27755_1937.N1	22-JUN-2007 01:37:20	Bright	36.000	120	1Del Oph	2.7340	3200.0	72	27755	No
20	GOM_NL__2PRFIN20070622_014027_000000372059_00146_27755_1938.N1	22-JUN-2007 01:40:27	Bright	36.500	102	24Alp Ser	2.6000	4250.0	73	27755	No
21	GOM_NL__2PRFIN20070622_014420_000000372059_00146_27755_1939.N1	22-JUN-2007 01:44:20	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	27755	No
22	GOM_NL__2PRFIN20070622_014607_000000352059_00146_27755_1940.N1	22-JUN-2007 01:46:07	Bright	35.000	67	5Alp CrB	2.2210	11000.	70	27755	No
23	GOM_NL__2PRFIN20070622_015540_000000362059_00146_27755_1941.N1	22-JUN-2007 01:55:40	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	27755	No
24	GOM_NL__2PRFIN20070622_015922_000000332059_00146_27755_1942.N1	22-JUN-2007 01:59:22	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	27755	No
25	GOM_NL__2PRFIN20070622_020352_000000342059_00146_27755_1943.N1	22-JUN-2007 02:03:52	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	27755	No
26	GOM_NL__2PRFIN20070622_021411_000000532059_00146_27755_1944.N1	22-JUN-2007 02:14:11	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	27755	No
27	GOM_NL__2PRFIN20070622_022835_000000462059_00146_27755_1945.N1	22-JUN-2007 02:28:35	Dark	45.500	94	92Alp Cet	2.5260	3100.0	91	27755	No
28	GOM_NL__2PRFIN20070622_023240_000000372059_00146_27755_1946.N1	22-JUN-2007 02:32:40	Dark	37.000	165	34Gam Eri	2.9500	3200.0	74	27755	No
29	GOM_NL__2PRFIN20070622_024638_000000412059_00146_27755_1947.N1	22-JUN-2007 02:46:38	Dark	41.000	9	Alp Eri	0.45300	24000.	82	27755	No
30	GOM_NL__2PRFIN20070622_025149_000000372059_00147_27756_2008.N1	22-JUN-2007 02:51:49	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	27756	No
31	GOM_NL__2PRFIN20070622_030251_000000402059_00147_27756_2009.N1	22-JUN-2007 03:02:51	Straylight	40.000	141	Bet Ara	2.8400	4600.0	80	27756	No
32	GOM_NL__2PRFIN20070622_030415_000000382059_00147_27756_2010.N1	22-JUN-2007 03:04:15	Straylight	37.500	147	Alp Ara	2.8770	26000.	75	27756	No
33	GOM_NL__2PRFIN20070622_030602_000000432059_00147_27756_2011.N1	22-JUN-2007 03:06:02	Twilight	43.000	40	The Sco	1.8590	7100.0	86	27756	No
34	GOM_NL__2PRFIN20070622_030743_000000432059_00147_27756_2012.N1	22-JUN-2007 03:07:43	Twilight	42.500	25	35Lam Sco	1.6200	28000.	85	27756	No
35	GOM_NL__2PRFIN20070622_030905_000000522059_00147_27756_2013.N1	22-JUN-2007 03:09:05	Bright	52.000	75	26Eps Sco	2.2910	4250.0	104	27756	No
36	GOM_NL__2PRFIN20070622_031148_000000362059_00147_27756_2014.N1	22-JUN-2007 03:11:48	Bright	36.000	156	20Sig Sco	2.9030	28000.	72	27756	No
37	GOM_NL__2PRFIN20070622_031406_000000382059_00147_27756_2015.N1	22-JUN-2007 03:14:06	Bright	37.500	86	35Eta Oph	2.4300	10200.	75	27756	No
38	GOM_NL__2PRFIN20070622_031550_000000352059_00147_27756_2016.N1	22-JUN-2007 03:15:50	Bright	35.000	98	13Zet Oph	2.5710	30000.	70	27756	No
39	GOM_NL__2PRFIN20070622_031756_000000362059_00147_27756_2017.N1	22-JUN-2007 03:17:56	Bright	35.500	120	1Del Oph	2.7340	3200.0	71	27756	No
40	GOM_NL__2PRFIN20070622_032103_000000352059_00147_27756_2018.N1	22-JUN-2007 03:21:03	Bright	34.500	102	24Alp Ser	2.6000	4250.0	69	27756	No
41	GOM_NL__2PRFIN20070622_032456_000000352059_00147_27756_2019.N1	22-JUN-2007 03:24:56	Bright	35.000	127	27Bet Her	2.7810	4700.0	70	27756	No
42	GOM_NL__2PRFIN20070622_032644_000000362059_00147_27756_2020.N1	22-JUN-2007 03:26:44	Bright	35.500	67	5Alp CrB	2.2210	11000.	71	27756	No

279	GOM_NL__2PRFIN20070622_225354_000000492059_00158_27767_2316.N1	22-JUN-2007 22:53:54	Dark	49.000	9	Alp Eri	0.45300	24000.	98	27767	No
280	GOM_NL__2PRFIN20070622_225903_000000372059_00159_27768_2312.N1	22-JUN-2007 22:59:03	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	27768	No
281	GOM_NL__2PRFIN20070622_231005_000000402059_00159_27768_2313.N1	22-JUN-2007 23:10:05	Straylight	40.000	141	Bet Ara	2.8400	4600.0	80	27768	No
282	GOM_NL__2PRFIN20070622_231130_000000392059_00159_27768_2314.N1	22-JUN-2007 23:11:30	Straylight	39.000	147	Alp Ara	2.8770	26000.	78	27768	No
283	GOM_NL__2PRFIN20070622_231316_000000432059_00159_27768_2315.N1	22-JUN-2007 23:13:16	Twilight	42.500	40	The Sco	1.8590	7100.0	85	27768	No
284	GOM_NL__2PRFIN20070622_231457_000000442059_00159_27768_2316.N1	22-JUN-2007 23:14:57	Twilight	43.500	25	35Lam Sco	1.6200	28000.	87	27768	No
285	GOM_NL__2PRFIN20070622_231618_000000522059_00159_27768_2317.N1	22-JUN-2007 23:16:18	Bright	52.000	75	26Eps Sco	2.2910	4250.0	104	27768	No
286	GOM_NL__2PRFIN20070622_231901_000000362059_00159_27768_2318.N1	22-JUN-2007 23:19:01	Bright	36.000	156	20Sig Sco	2.9030	28000.	72	27768	No
287	GOM_NL__2PRFIN20070622_232119_000000382059_00159_27768_2319.N1	22-JUN-2007 23:21:19	Bright	37.500	86	35Eta Oph	2.4300	10200.	75	27768	No
288	GOM_NL__2PRFIN20070622_232303_000000362059_00159_27768_2320.N1	22-JUN-2007 23:23:03	Bright	35.500	98	13Zet Oph	2.5710	30000.	71	27768	No
289	GOM_NL__2PRFIN20070622_232509_000000362059_00159_27768_2321.N1	22-JUN-2007 23:25:09	Bright	36.000	120	1Del Oph	2.7340	3200.0	72	27768	No
290	GOM_NL__2PRFIN20070622_232816_000000362059_00159_27768_2322.N1	22-JUN-2007 23:28:16	Bright	35.500	102	24Alp Ser	2.6000	4250.0	71	27768	No
291	GOM_NL__2PRFIN20070622_233208_000000382059_00159_27768_2323.N1	22-JUN-2007 23:32:08	Bright	37.500	127	27Bet Her	2.7810	4700.0	75	27768	No
292	GOM_NL__2PRFIN20070622_233357_000000362059_00159_27768_2324.N1	22-JUN-2007 23:33:57	Bright	36.000	67	5Alp CrB	2.2210	11000.	72	27768	No
293	GOM_NL__2PRFIN20070622_234326_000000372059_00159_27768_2325.N1	22-JUN-2007 23:43:26	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	27768	No
294	GOM_NL__2PRFIN20070622_234710_000000372059_00159_27768_2326.N1	22-JUN-2007 23:47:10	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	27768	No
295	GOM_NL__2PRFIN20070622_235139_000000362059_00159_27768_2327.N1	22-JUN-2007 23:51:39	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	27768	No

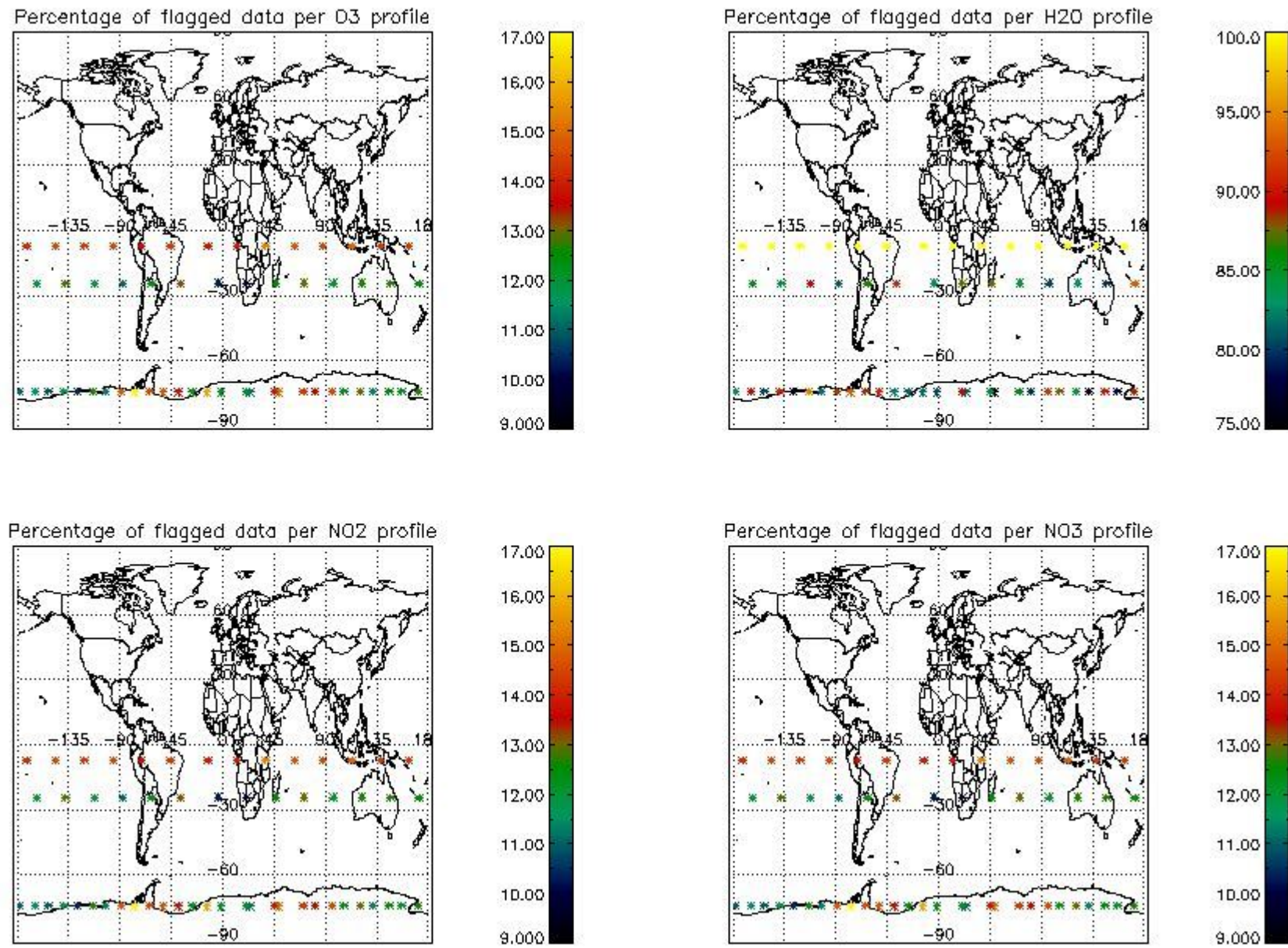
3. Quality information per product

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)

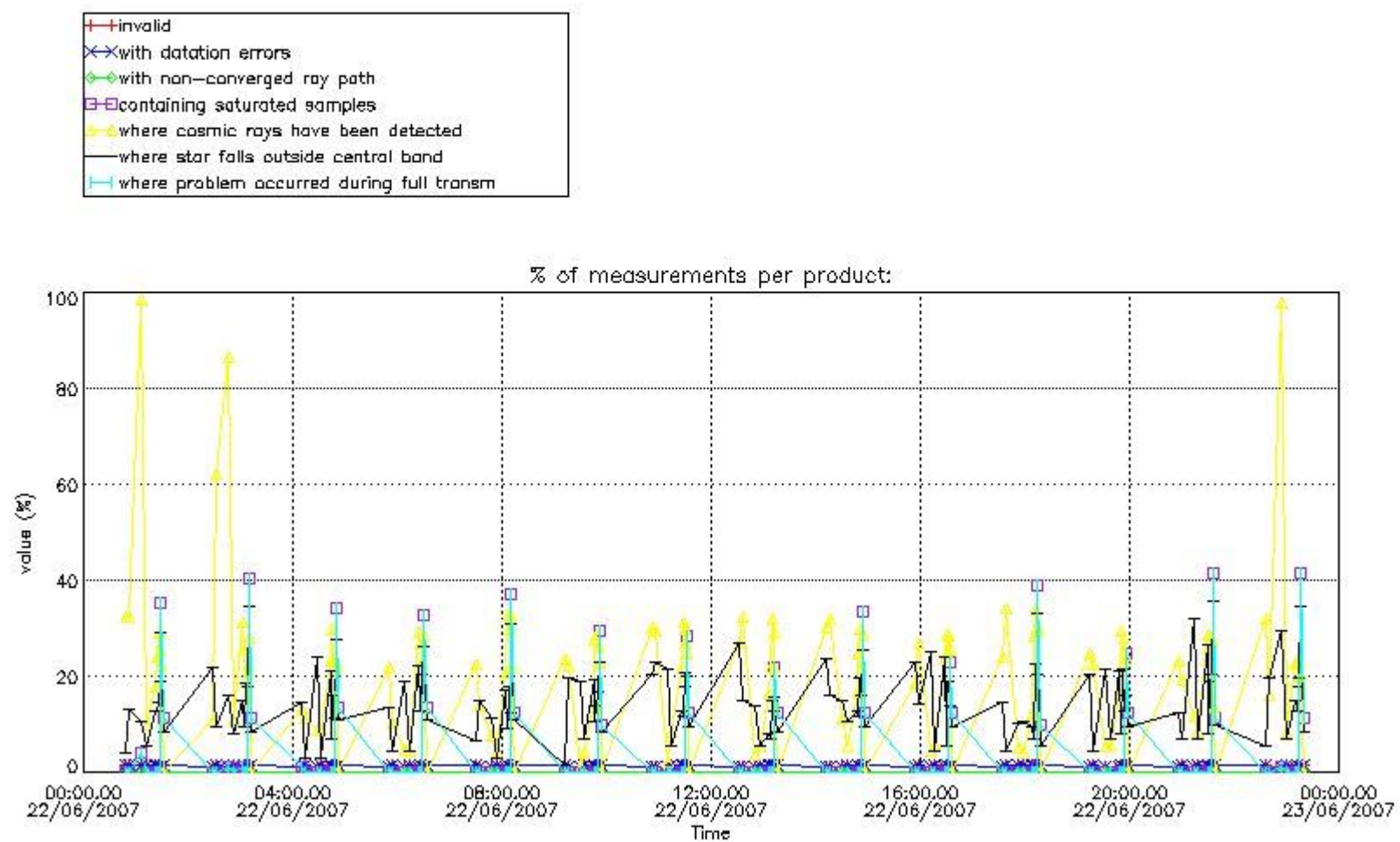


4. Level 1 quality information per product

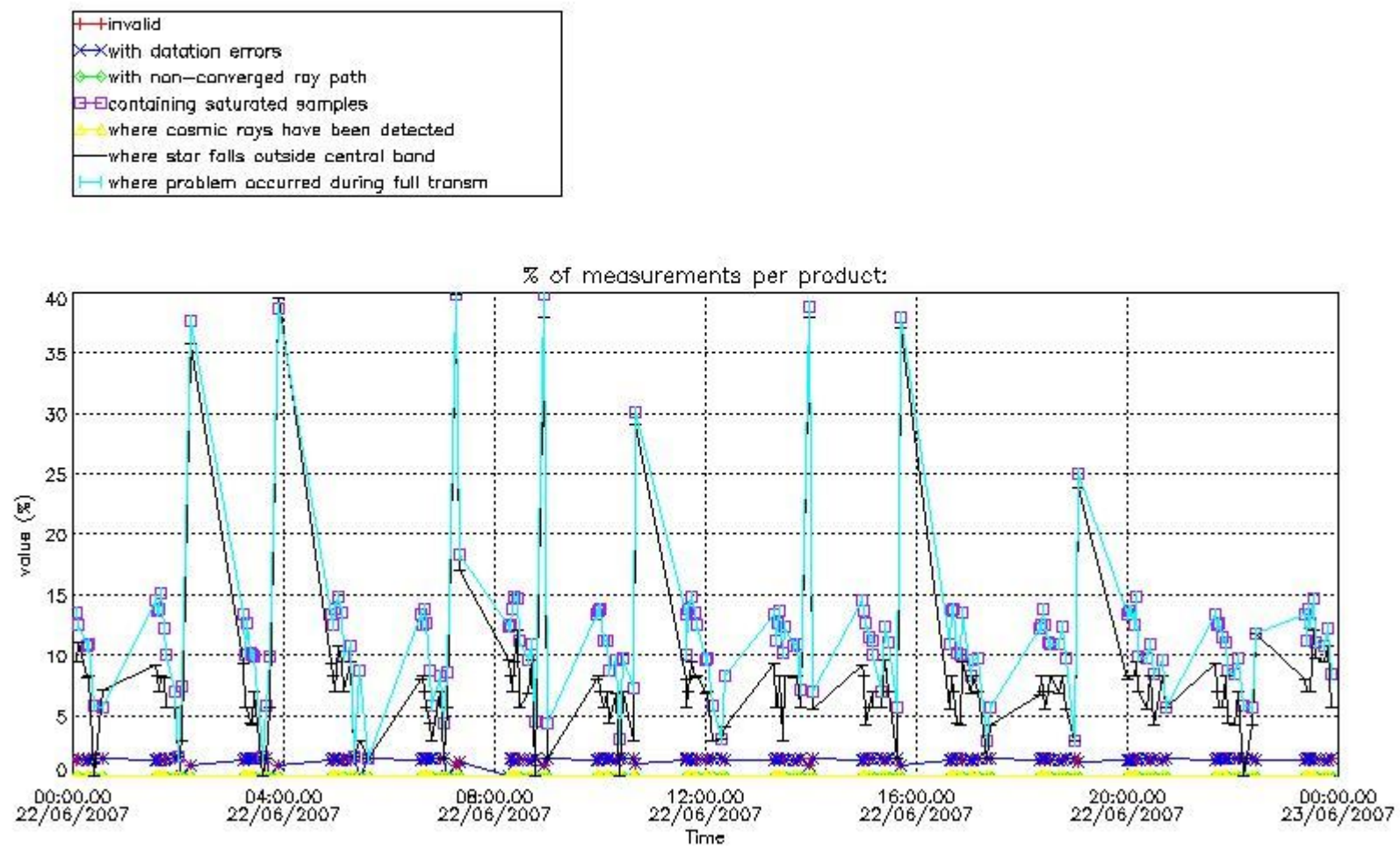
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



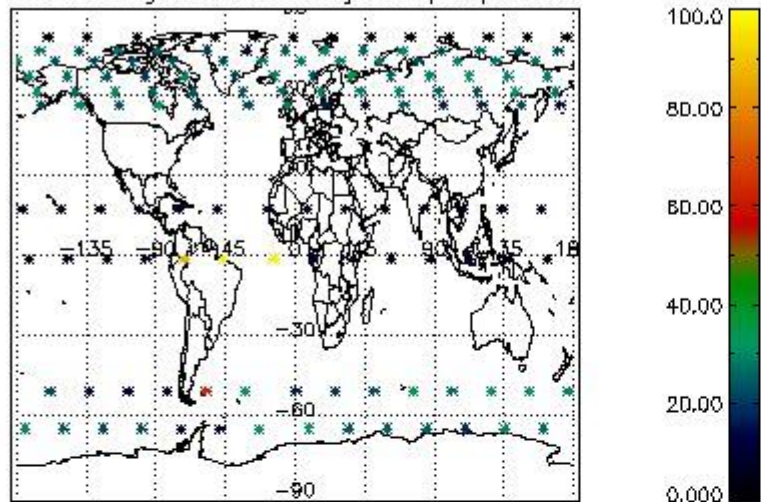
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



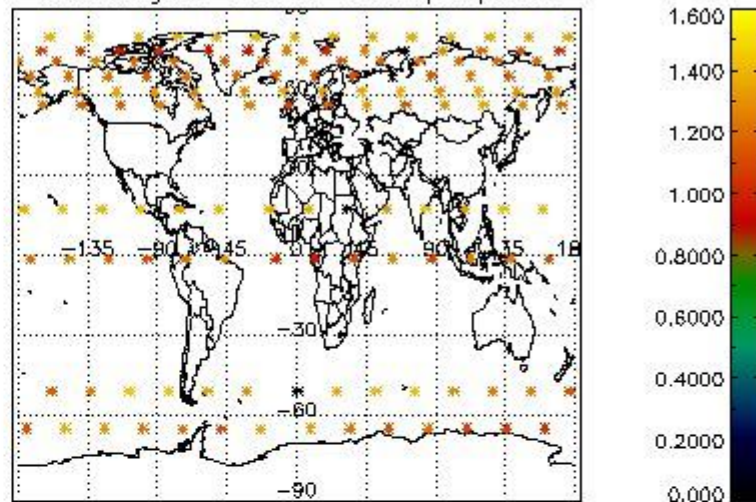
4.2 Plot quality information per product coming from level 1b processing (world map)

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

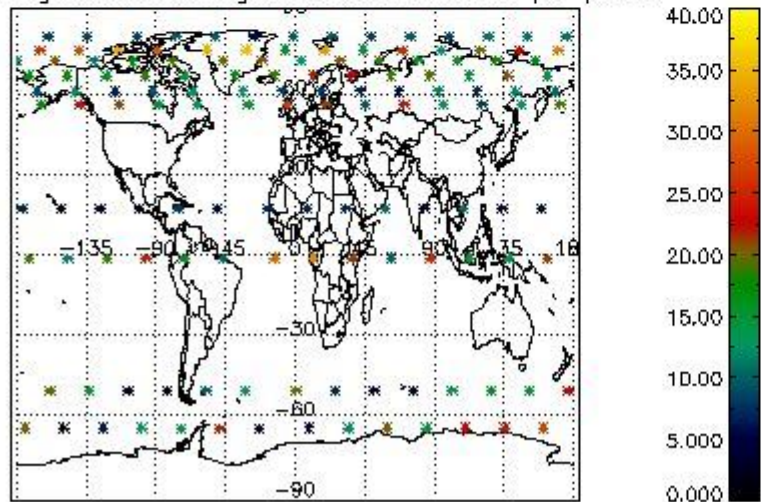
Percentage of cosmic ray hits per profile



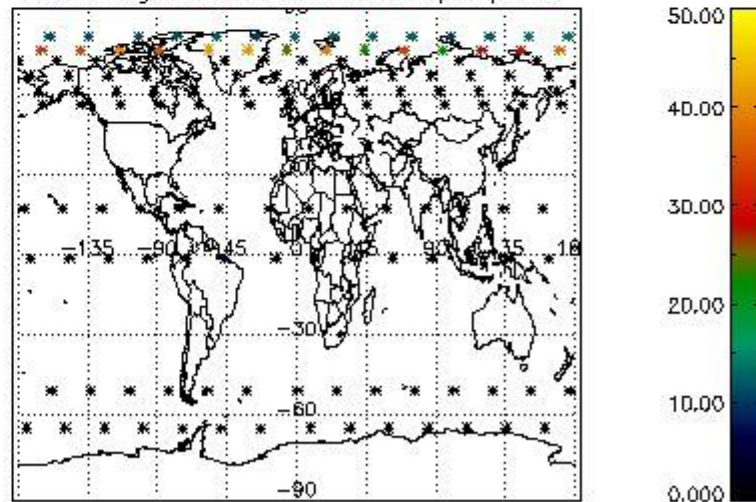
Percentage of datation errors per profile



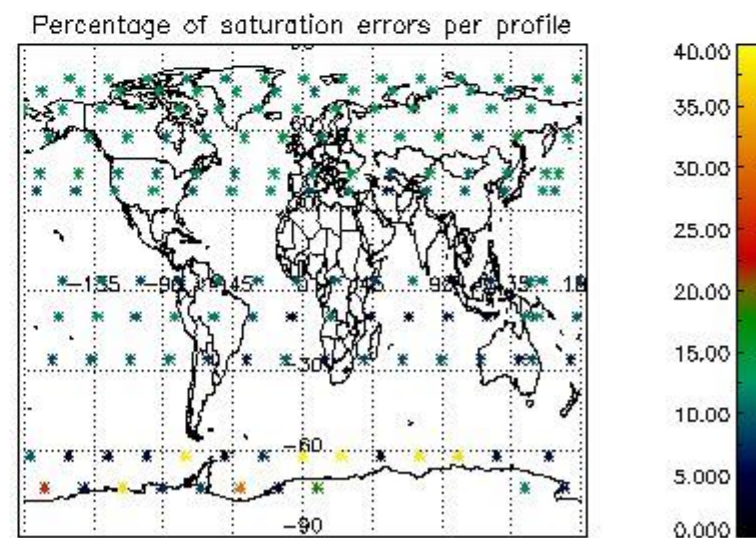
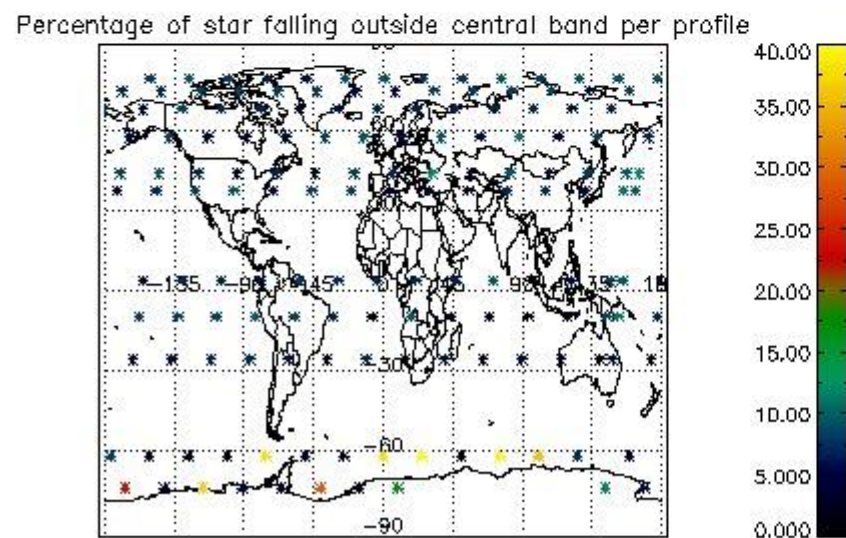
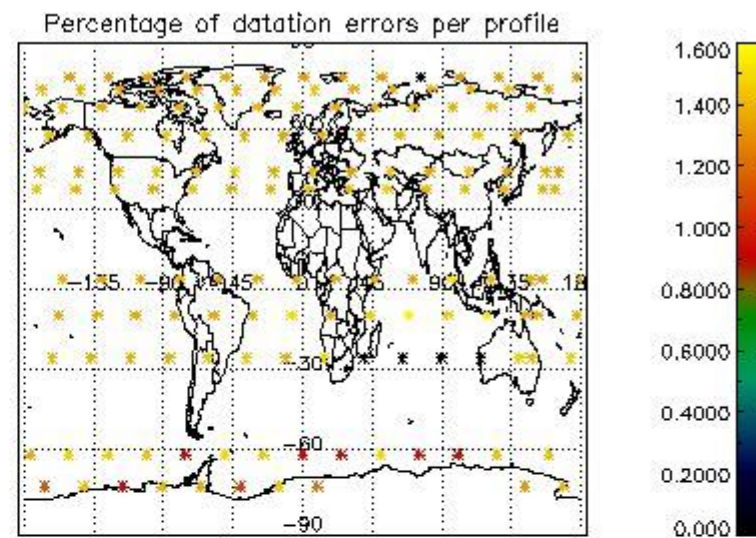
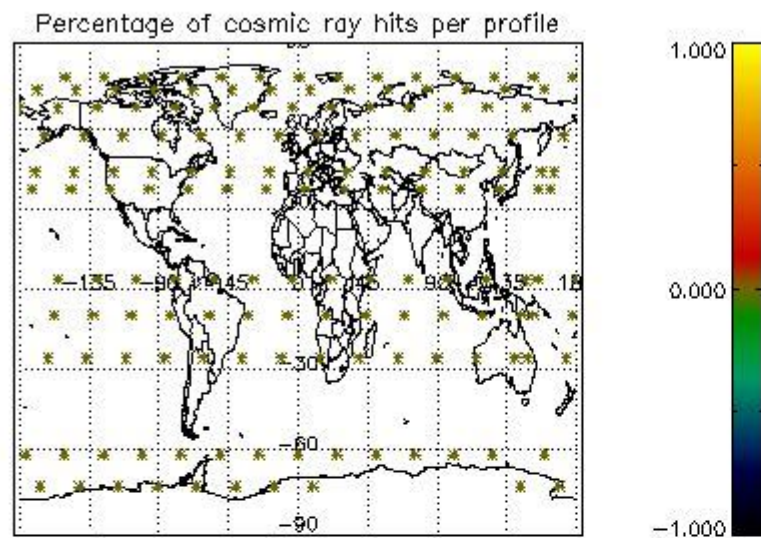
Percentage of star falling outside central band per profile



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

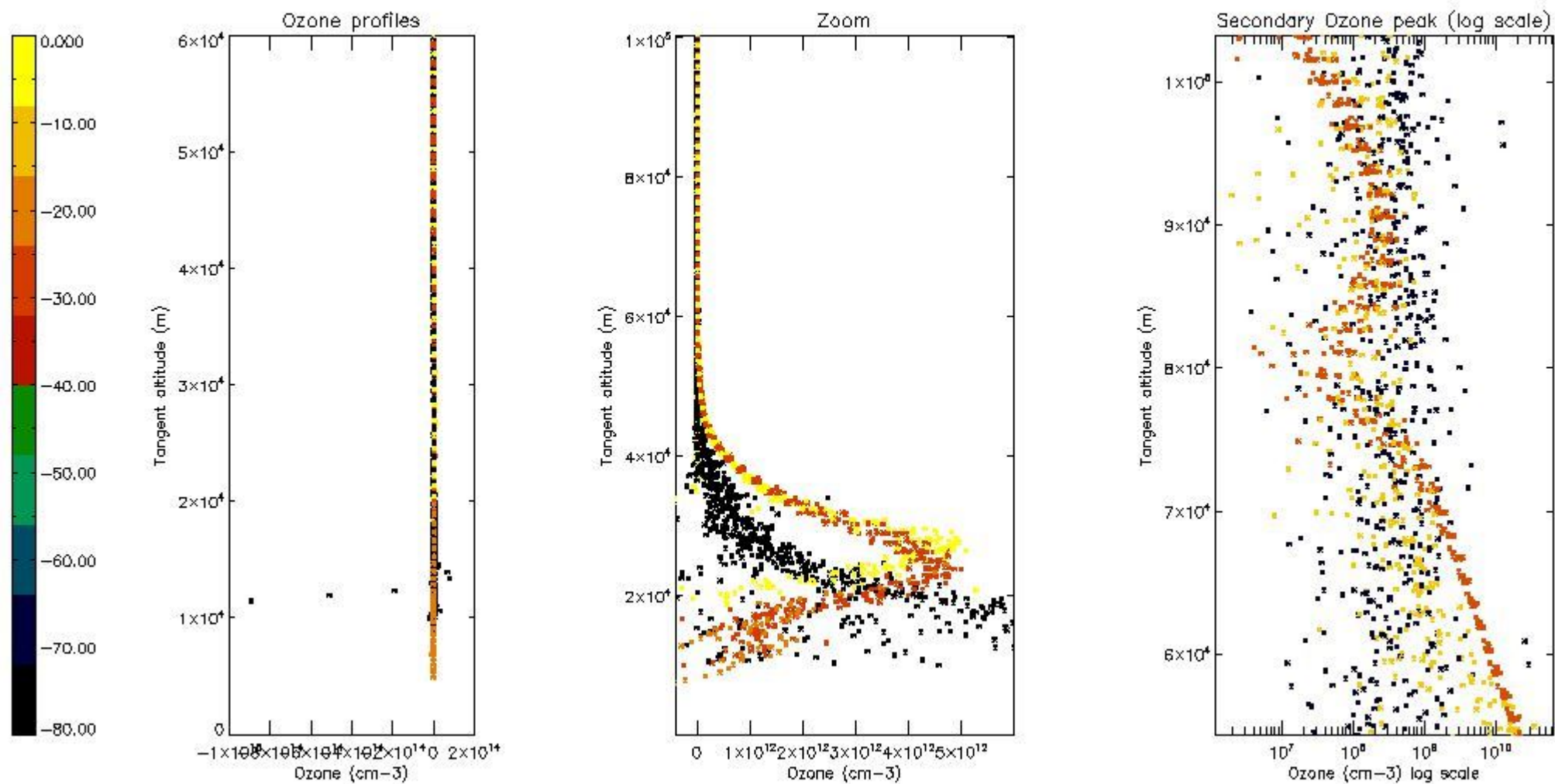
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	20
STD < 20	7

STD < 10	5
STD < 5	3

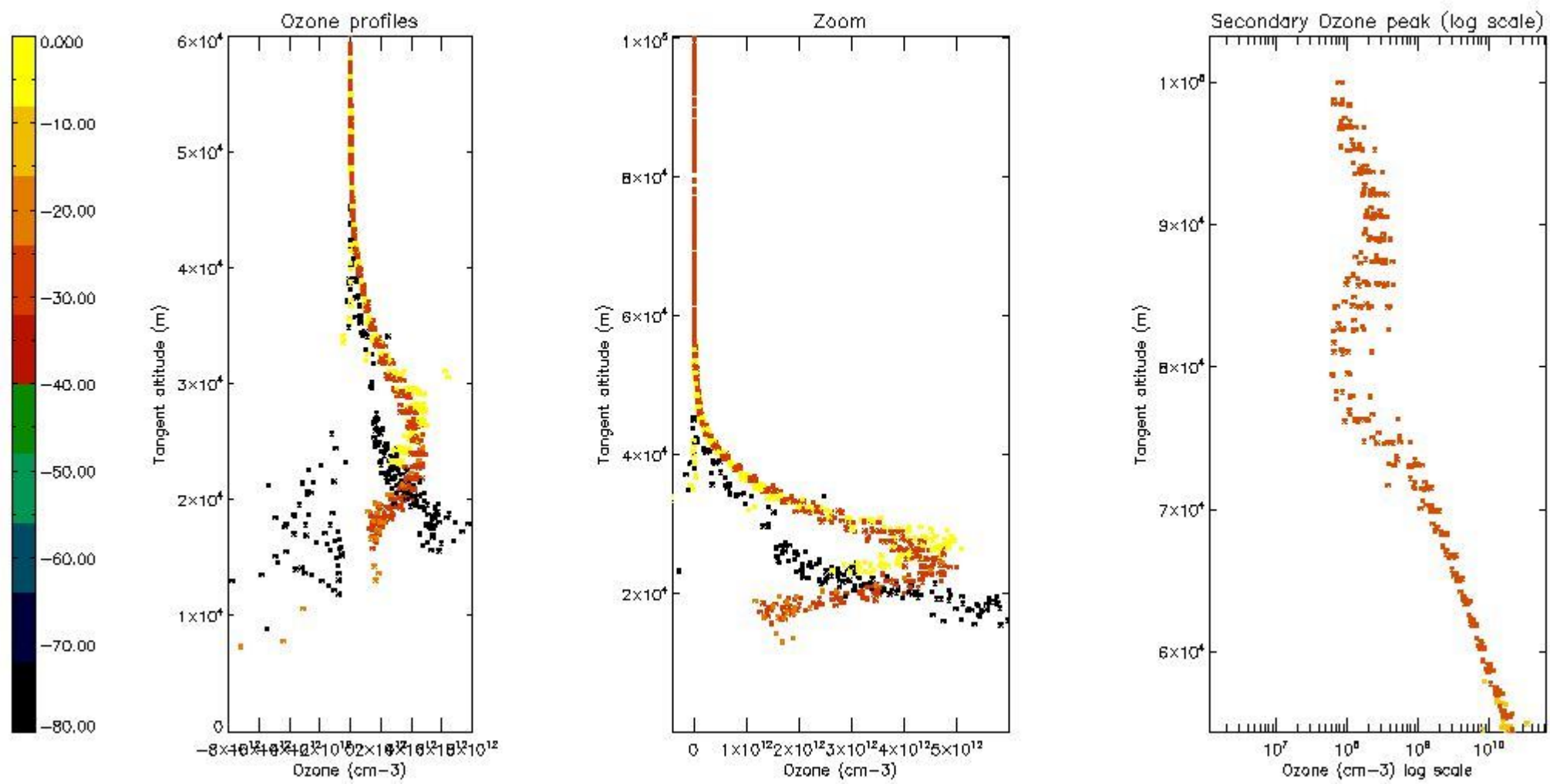
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



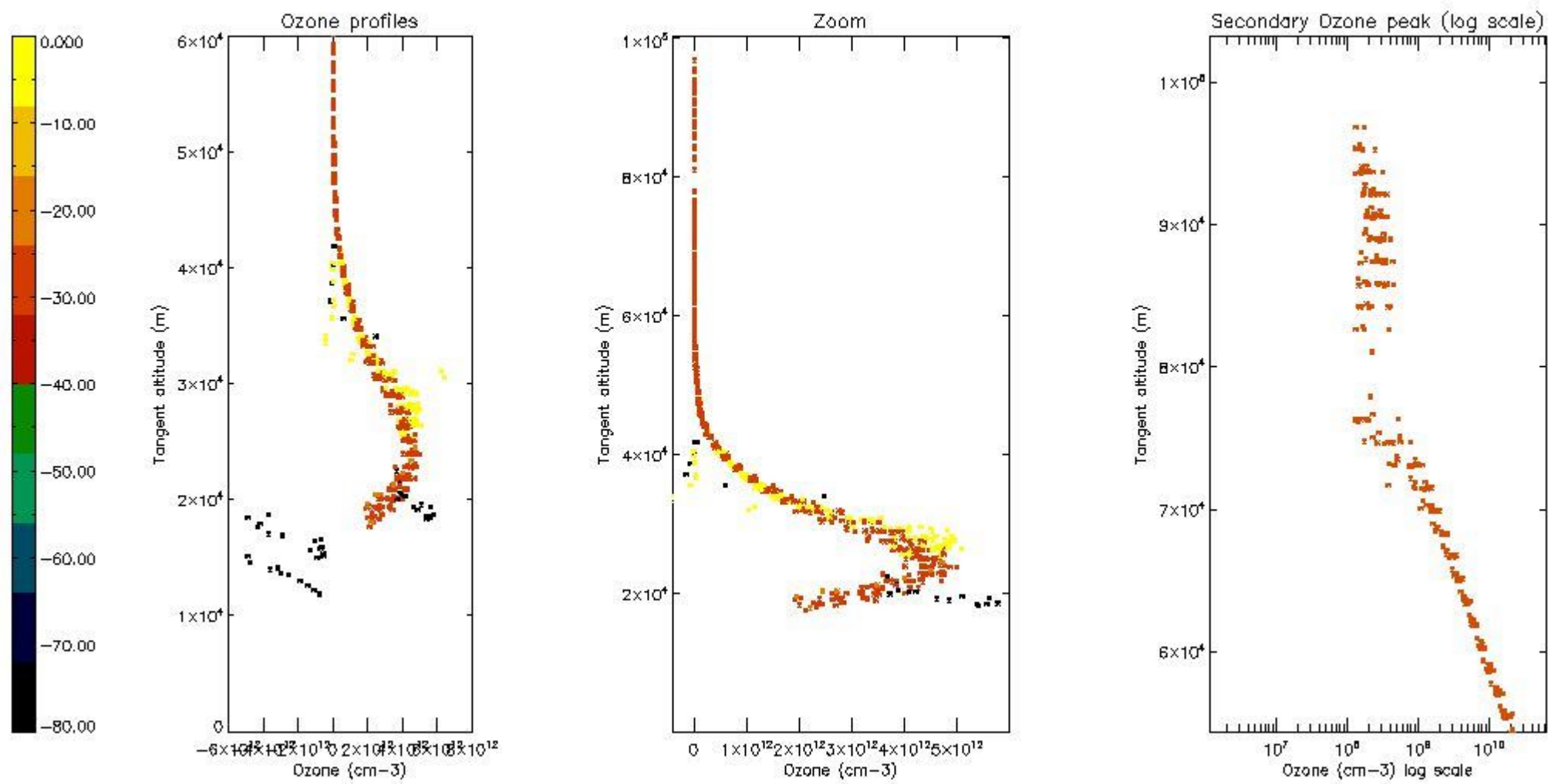
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



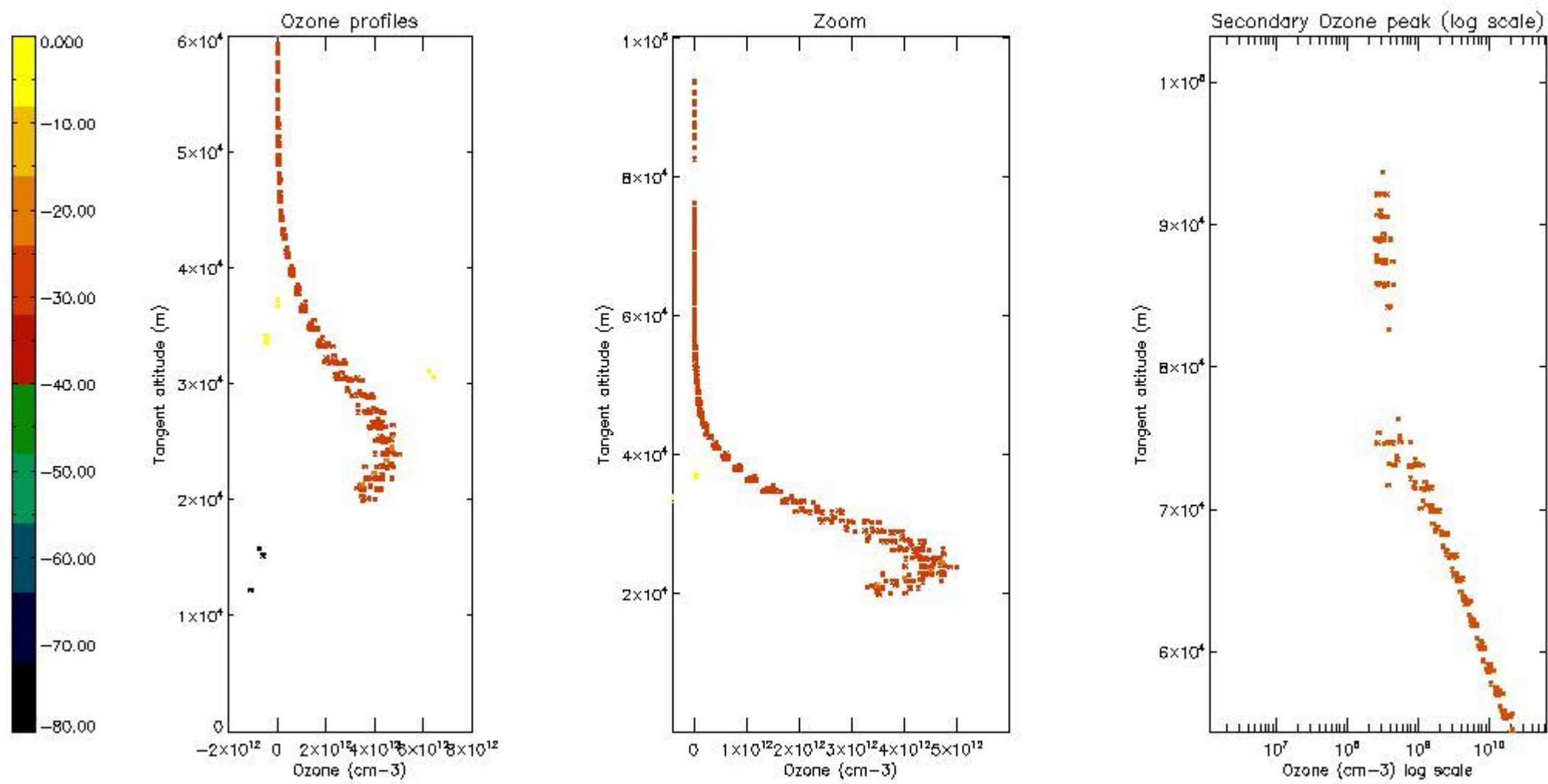
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



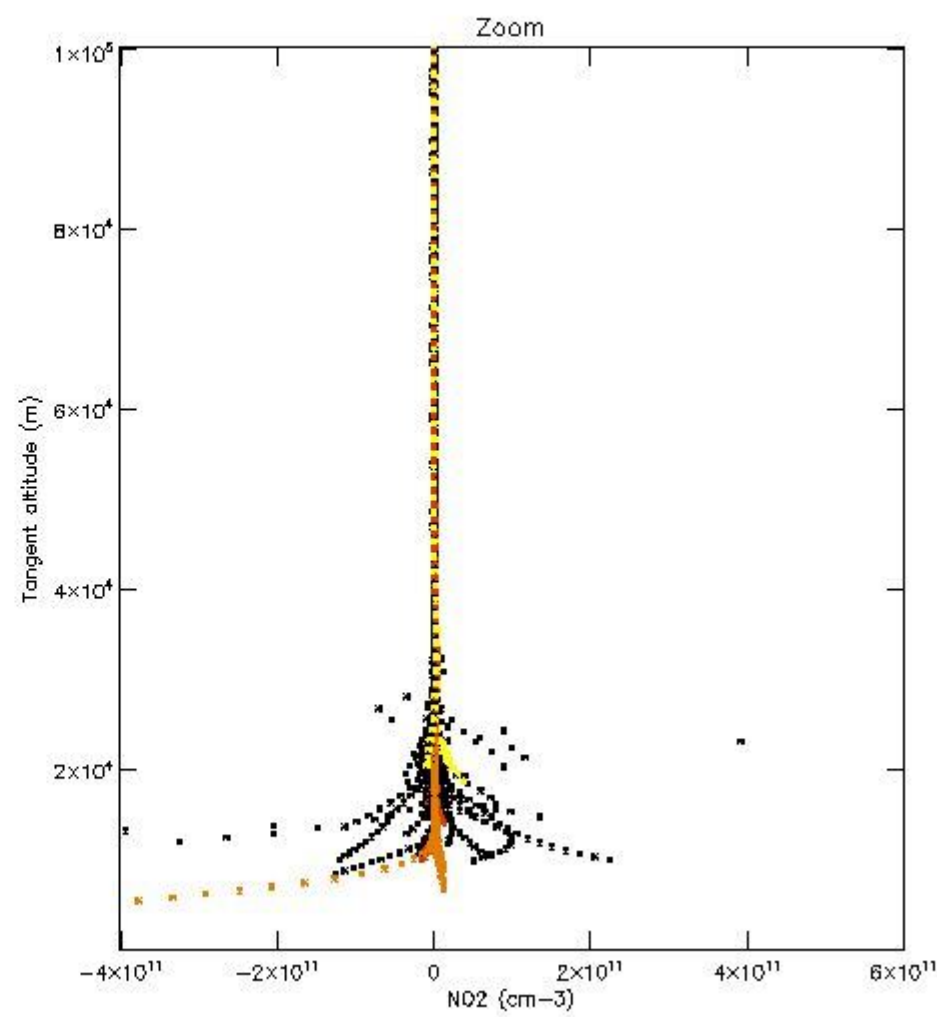
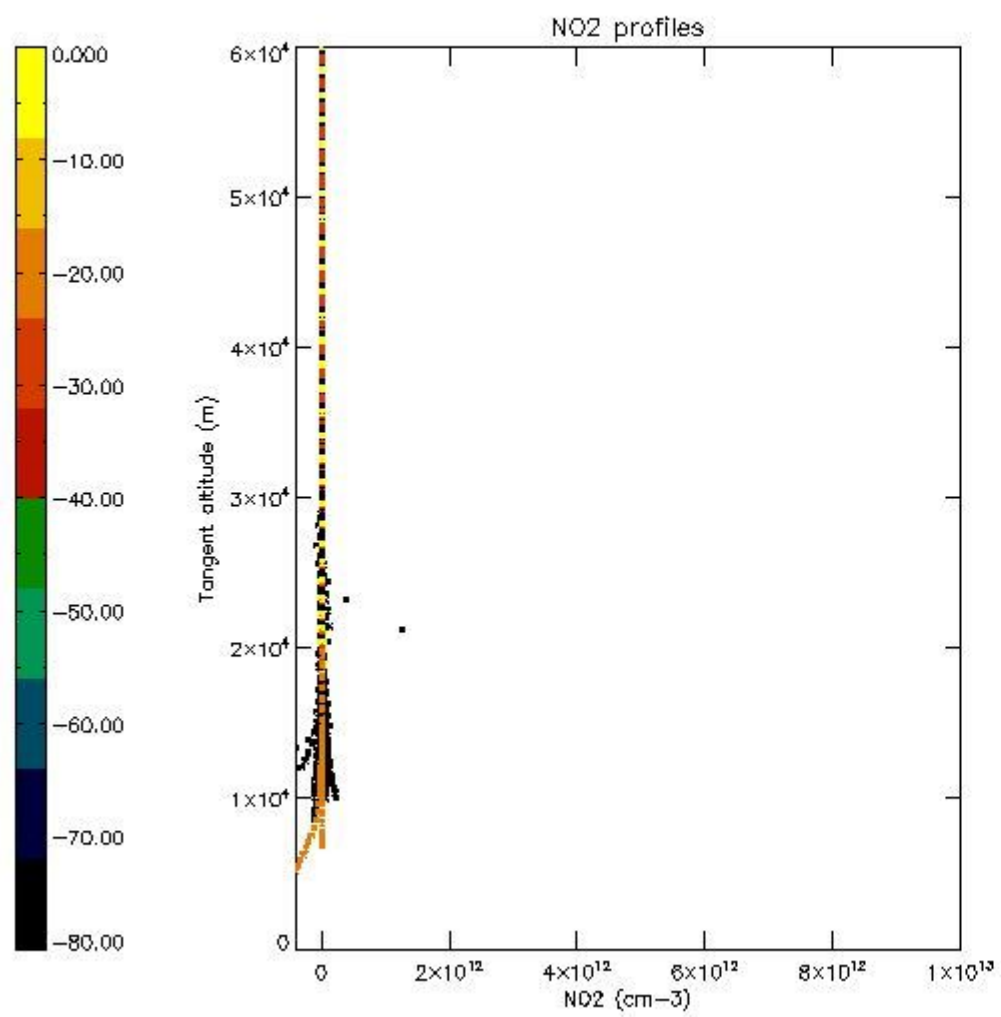
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



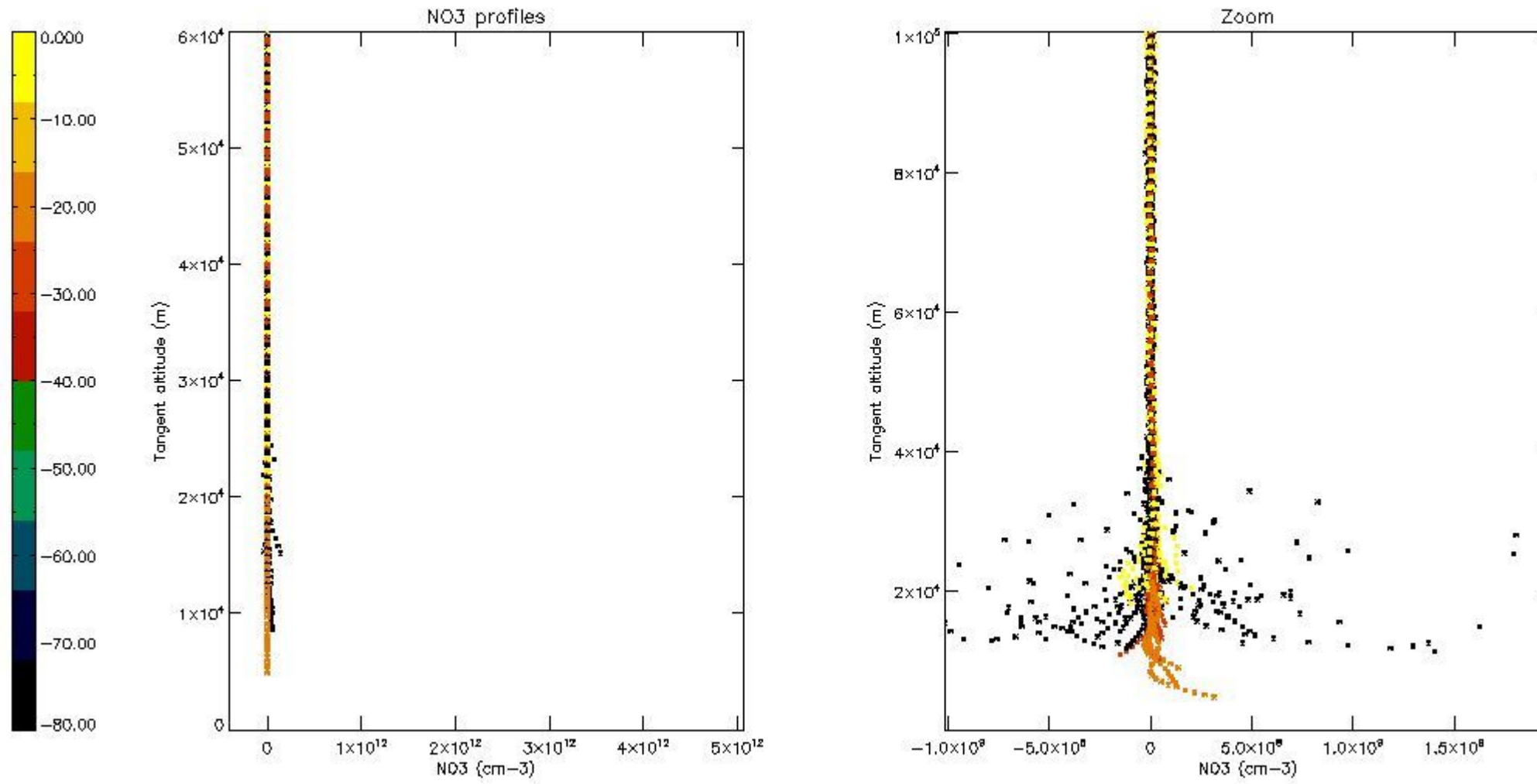
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	22-JUN-2007 00:03:44
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-JUN-2007 00:03:44
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-JUN-2007 00:03:44

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

[3.1 Plot of level 2 quality information per product \(time dependant\)](#)

[3.2 Plot of level 2 quality information per product \(world map\)](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

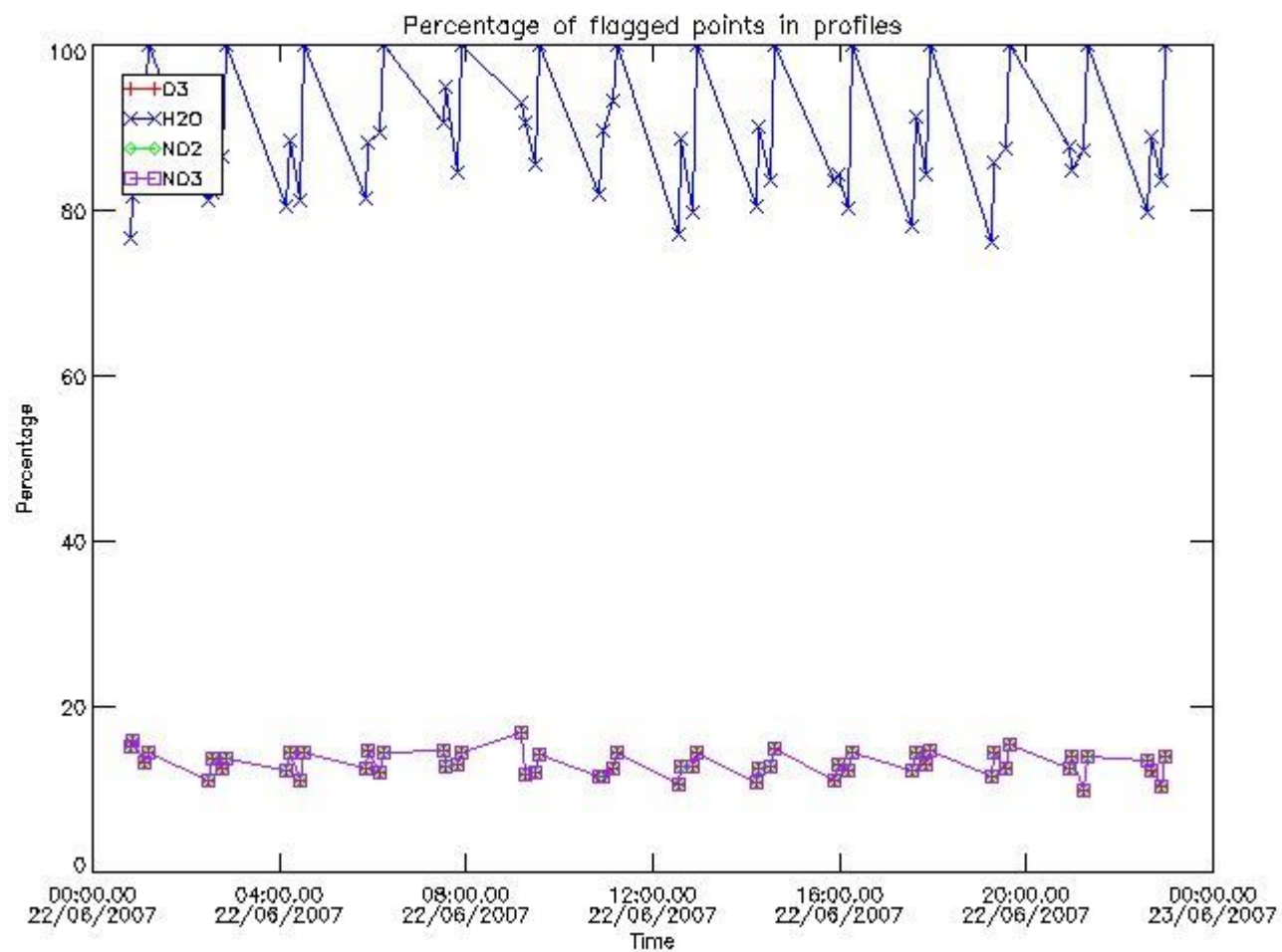
[6. Auxiliary Data Files used for the production reported in section 2](#)

279	GOM_NL__2PRFIN20070622_225354_000000492059_00158_27767_2316.N1	22-JUN-2007 22:53:54	Dark	49.000	9	Alp Eri	0.45300	24000.	98	27767	No
280	GOM_NL__2PRFIN20070622_225903_000000372059_00159_27768_2312.N1	22-JUN-2007 22:59:03	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	27768	No
281	GOM_NL__2PRFIN20070622_231005_000000402059_00159_27768_2313.N1	22-JUN-2007 23:10:05	Straylight	40.000	141	Bet Ara	2.8400	4600.0	80	27768	No
282	GOM_NL__2PRFIN20070622_231130_000000392059_00159_27768_2314.N1	22-JUN-2007 23:11:30	Straylight	39.000	147	Alp Ara	2.8770	26000.	78	27768	No
283	GOM_NL__2PRFIN20070622_231316_000000432059_00159_27768_2315.N1	22-JUN-2007 23:13:16	Twilight_and_stray	42.500	40	The Sco	1.8590	7100.0	85	27768	No
284	GOM_NL__2PRFIN20070622_231457_000000442059_00159_27768_2316.N1	22-JUN-2007 23:14:57	Twilight_and_stray	43.500	25	35Lam Sco	1.6200	28000.	87	27768	No
285	GOM_NL__2PRFIN20070622_231618_000000522059_00159_27768_2317.N1	22-JUN-2007 23:16:18	Bright	52.000	75	26Eps Sco	2.2910	4250.0	104	27768	No
286	GOM_NL__2PRFIN20070622_231901_000000362059_00159_27768_2318.N1	22-JUN-2007 23:19:01	Bright	36.000	156	20Sig Sco	2.9030	28000.	72	27768	No
287	GOM_NL__2PRFIN20070622_232119_000000382059_00159_27768_2319.N1	22-JUN-2007 23:21:19	Bright	37.500	86	35Eta Oph	2.4300	10200.	75	27768	No
288	GOM_NL__2PRFIN20070622_232303_000000362059_00159_27768_2320.N1	22-JUN-2007 23:23:03	Bright	35.500	98	13Zet Oph	2.5710	30000.	71	27768	No
289	GOM_NL__2PRFIN20070622_232509_000000362059_00159_27768_2321.N1	22-JUN-2007 23:25:09	Bright	36.000	120	1Del Oph	2.7340	3200.0	72	27768	No
290	GOM_NL__2PRFIN20070622_232816_000000362059_00159_27768_2322.N1	22-JUN-2007 23:28:16	Bright	35.500	102	24Alp Ser	2.6000	4250.0	71	27768	No
291	GOM_NL__2PRFIN20070622_233208_000000382059_00159_27768_2323.N1	22-JUN-2007 23:32:08	Bright	37.500	127	27Bet Her	2.7810	4700.0	75	27768	No
292	GOM_NL__2PRFIN20070622_233357_000000362059_00159_27768_2324.N1	22-JUN-2007 23:33:57	Bright	36.000	67	5Alp CrB	2.2210	11000.	72	27768	No
293	GOM_NL__2PRFIN20070622_234326_000000372059_00159_27768_2325.N1	22-JUN-2007 23:43:26	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	27768	No
294	GOM_NL__2PRFIN20070622_234710_000000372059_00159_27768_2326.N1	22-JUN-2007 23:47:10	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	27768	No
295	GOM_NL__2PRFIN20070622_235139_000000362059_00159_27768_2327.N1	22-JUN-2007 23:51:39	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	27768	No

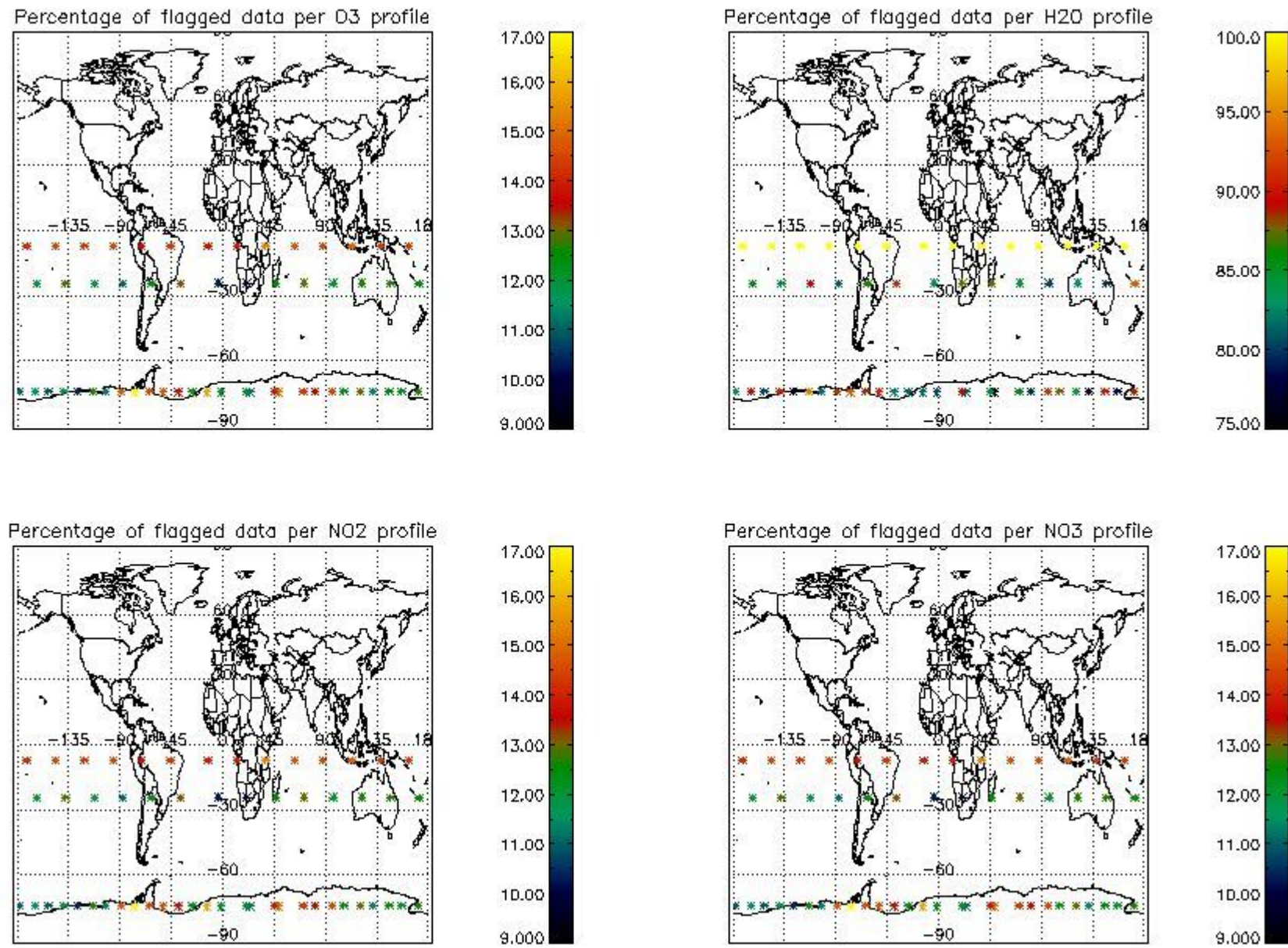
3. Quality information per product

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)

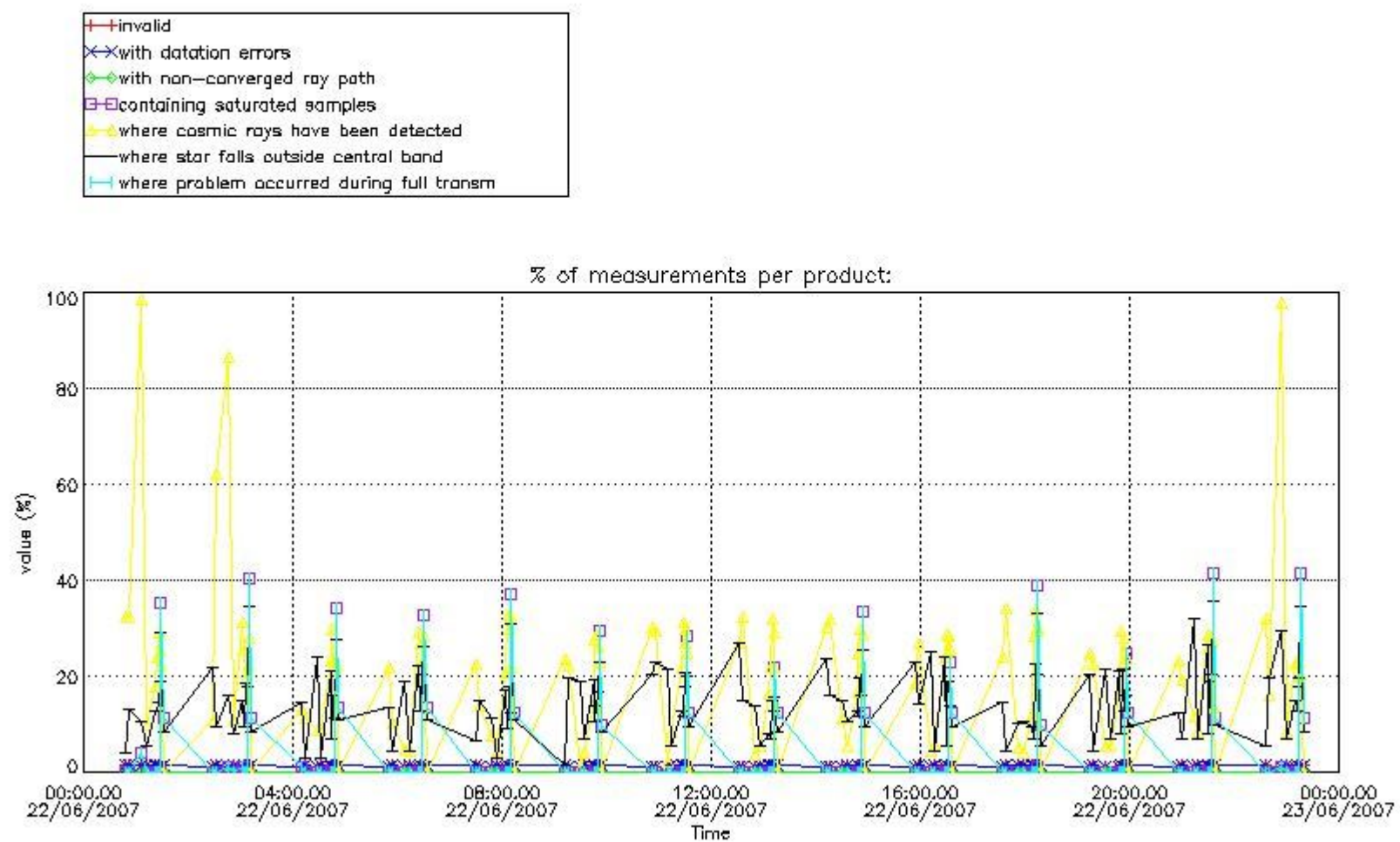


4. Level 1 quality information per product

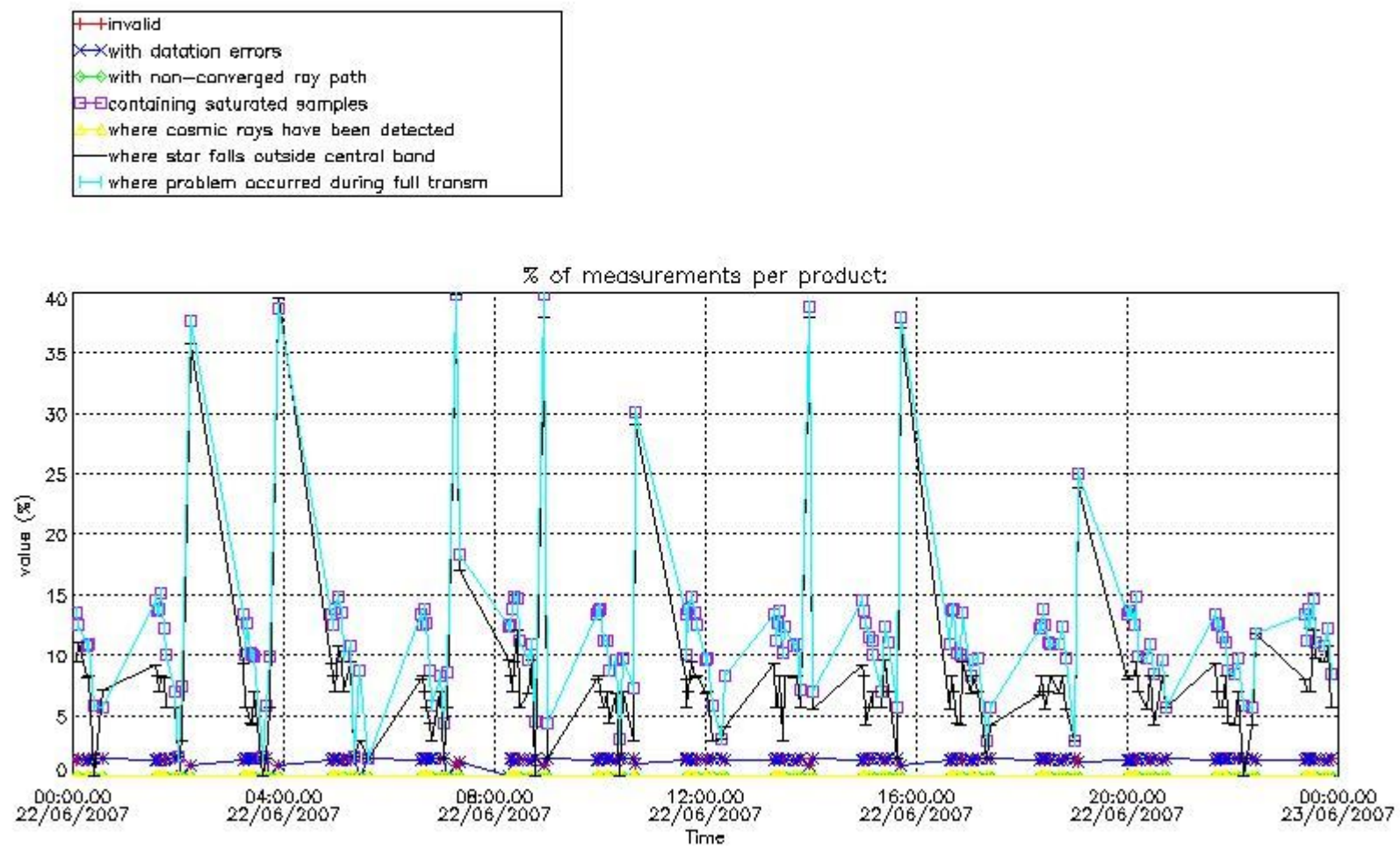
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



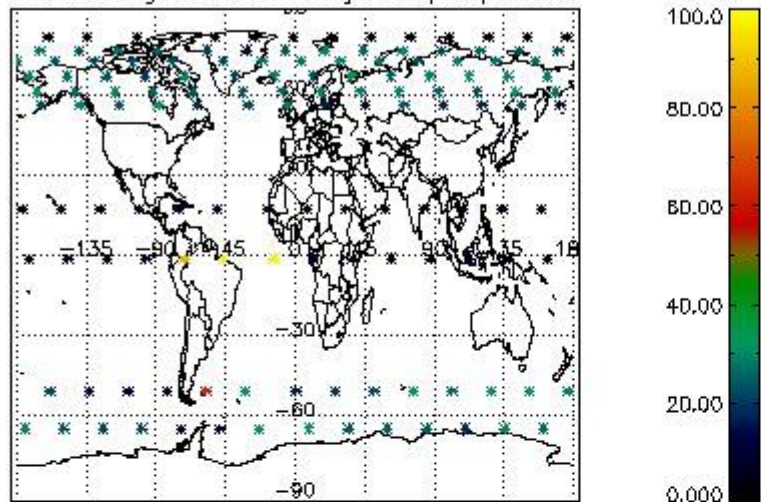
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



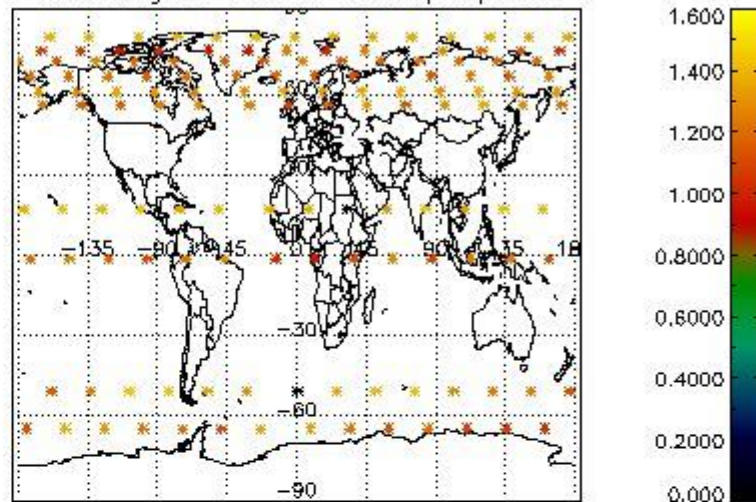
4.2 Plot quality information per product coming from level 1b processing (world map)

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

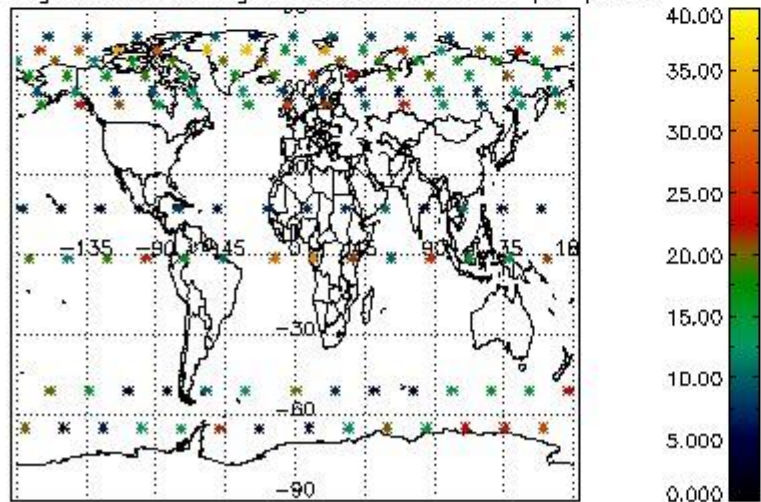
Percentage of cosmic ray hits per profile



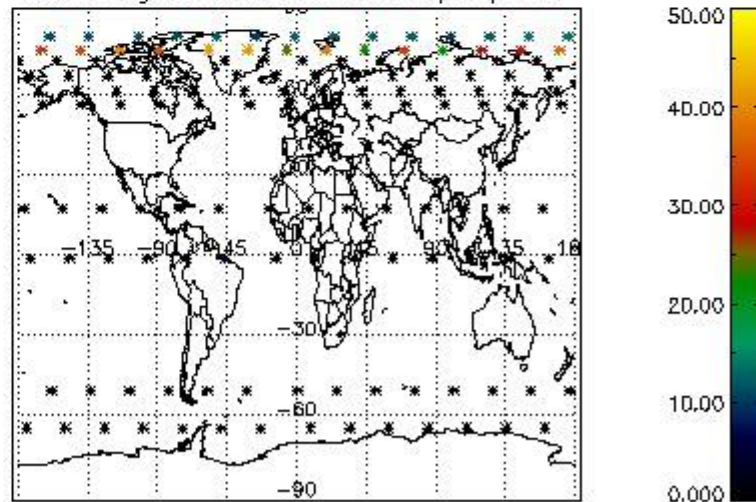
Percentage of datation errors per profile



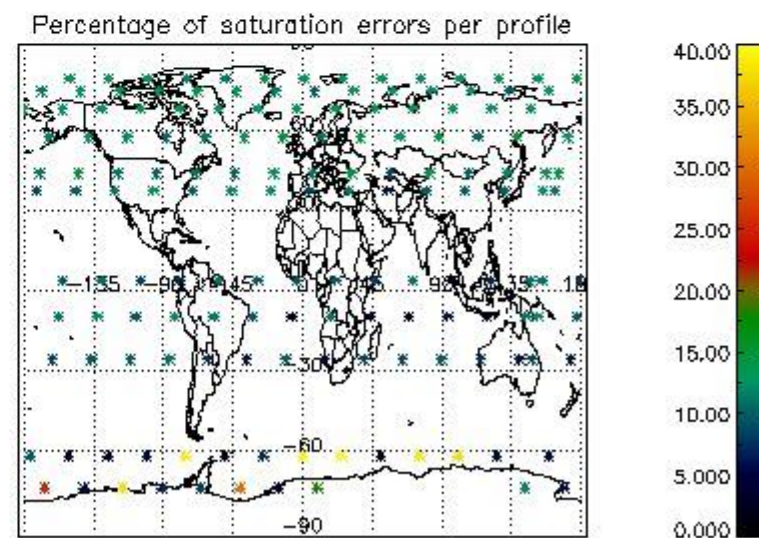
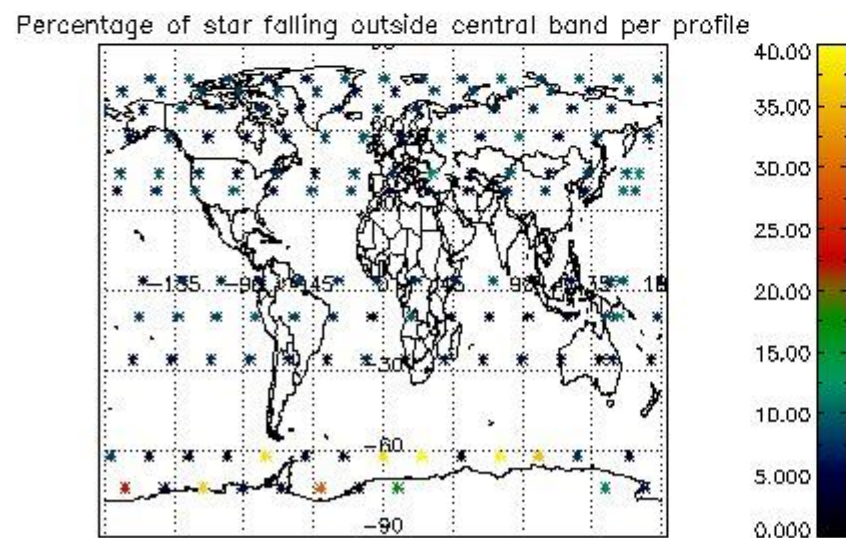
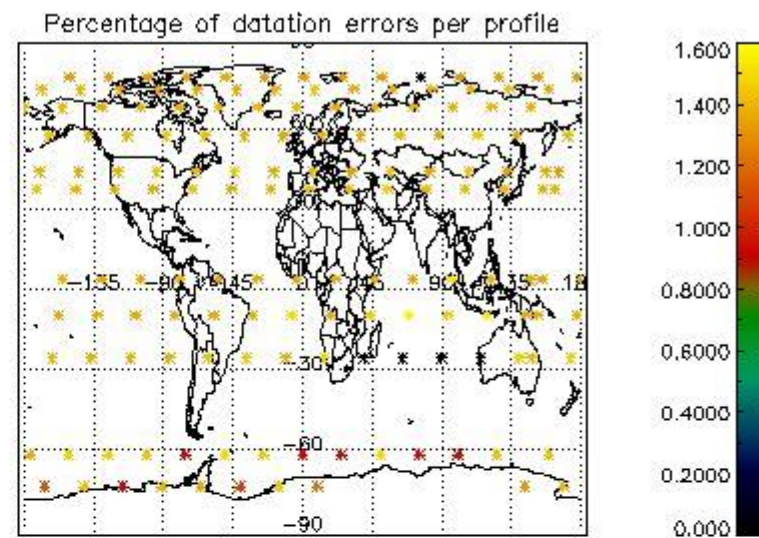
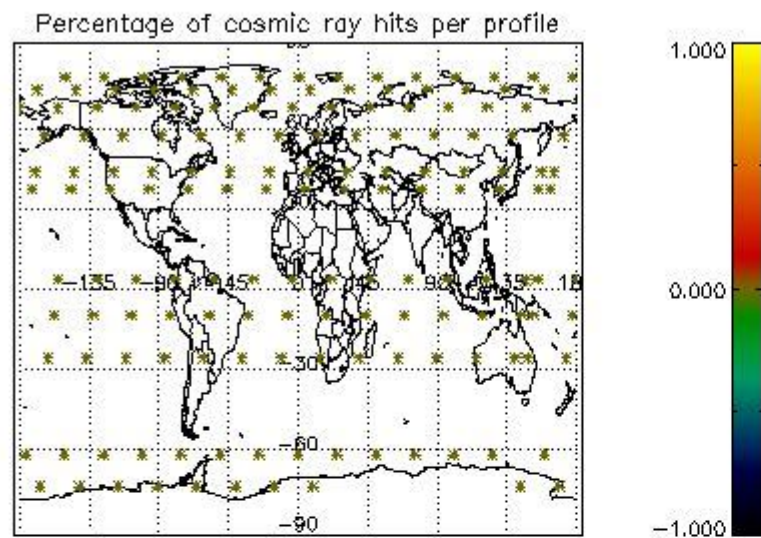
Percentage of star falling outside central band per profile



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

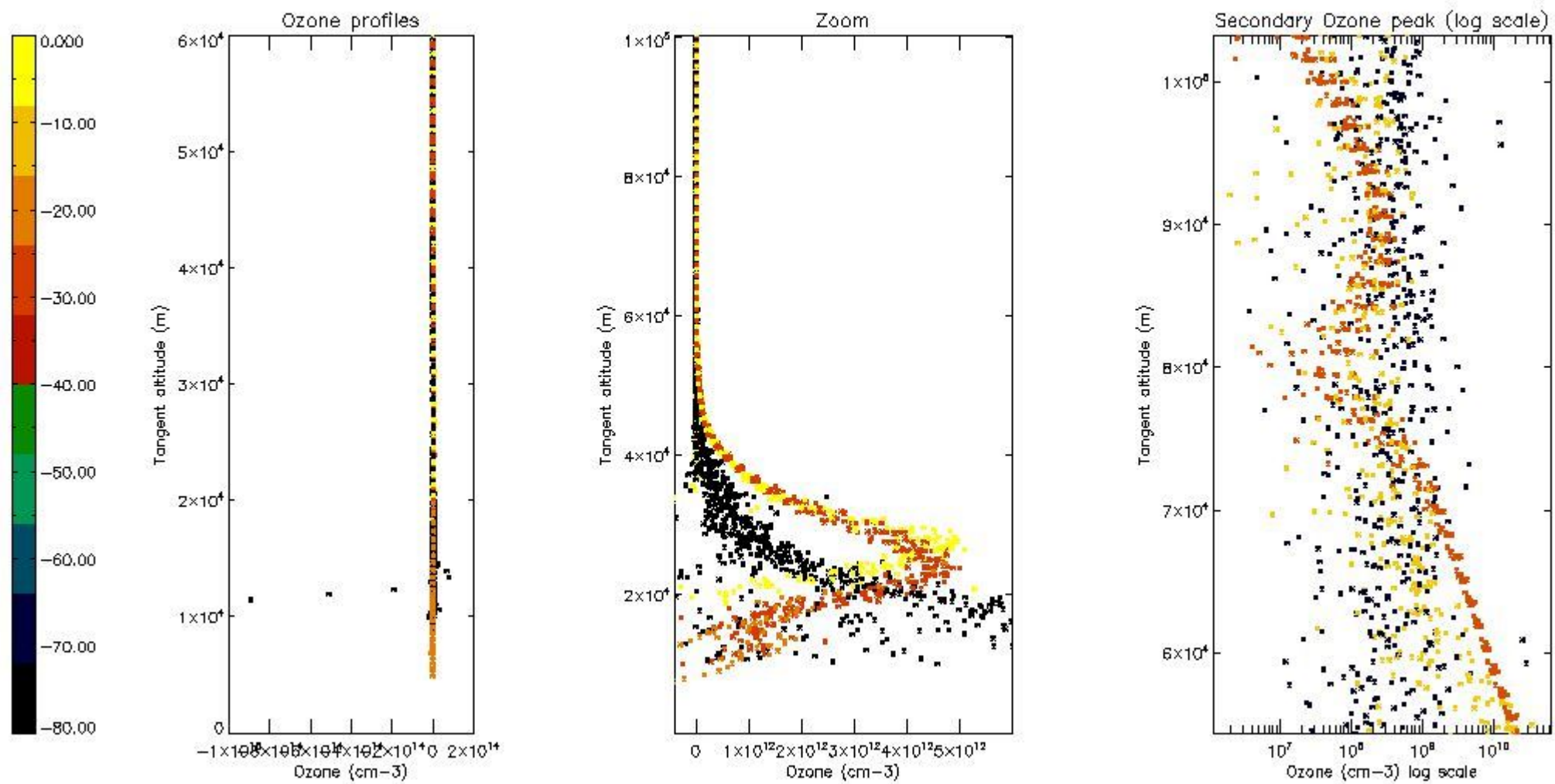
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	20
STD < 20	7

STD < 10	5
STD < 5	3

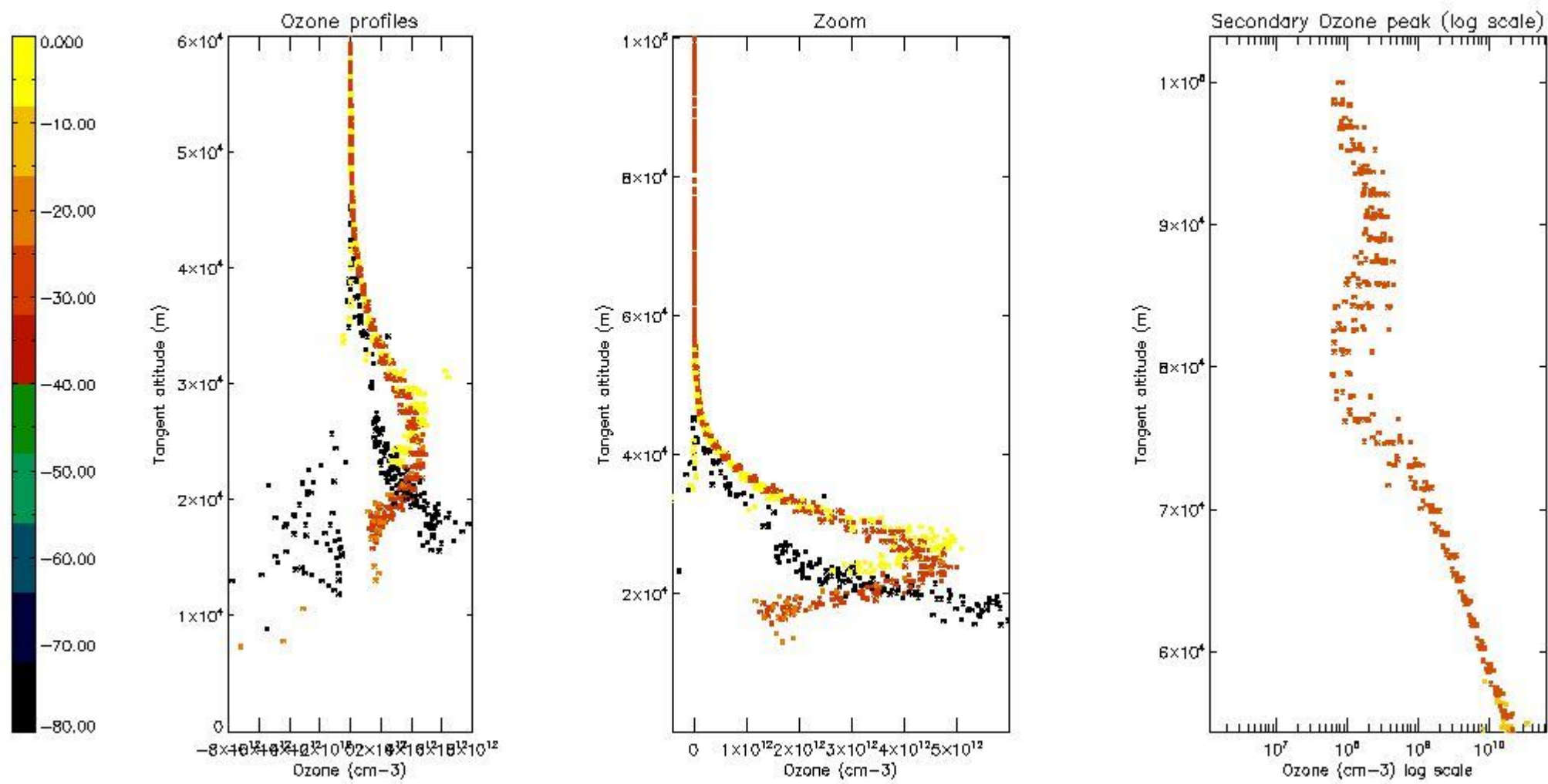
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



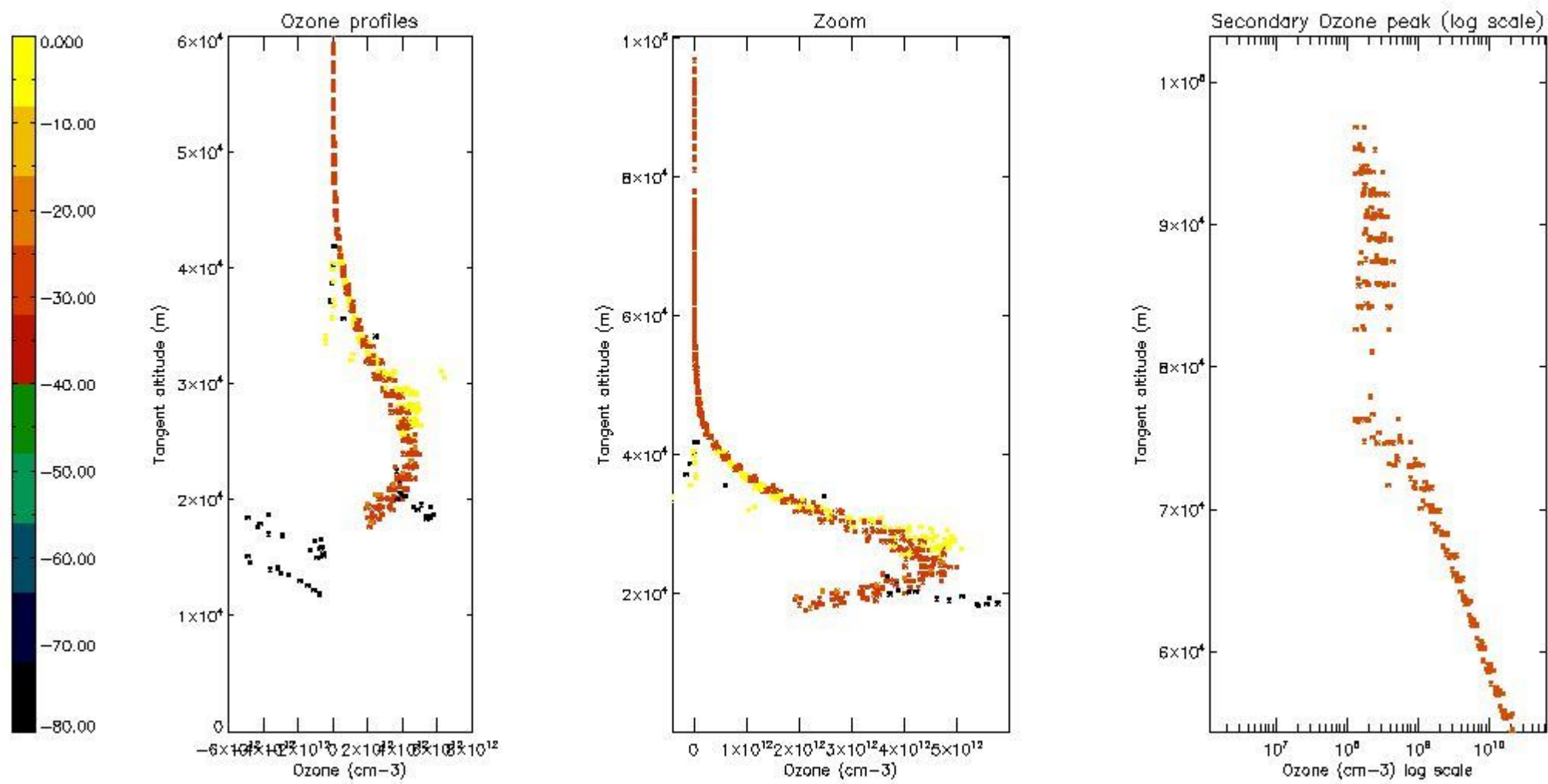
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



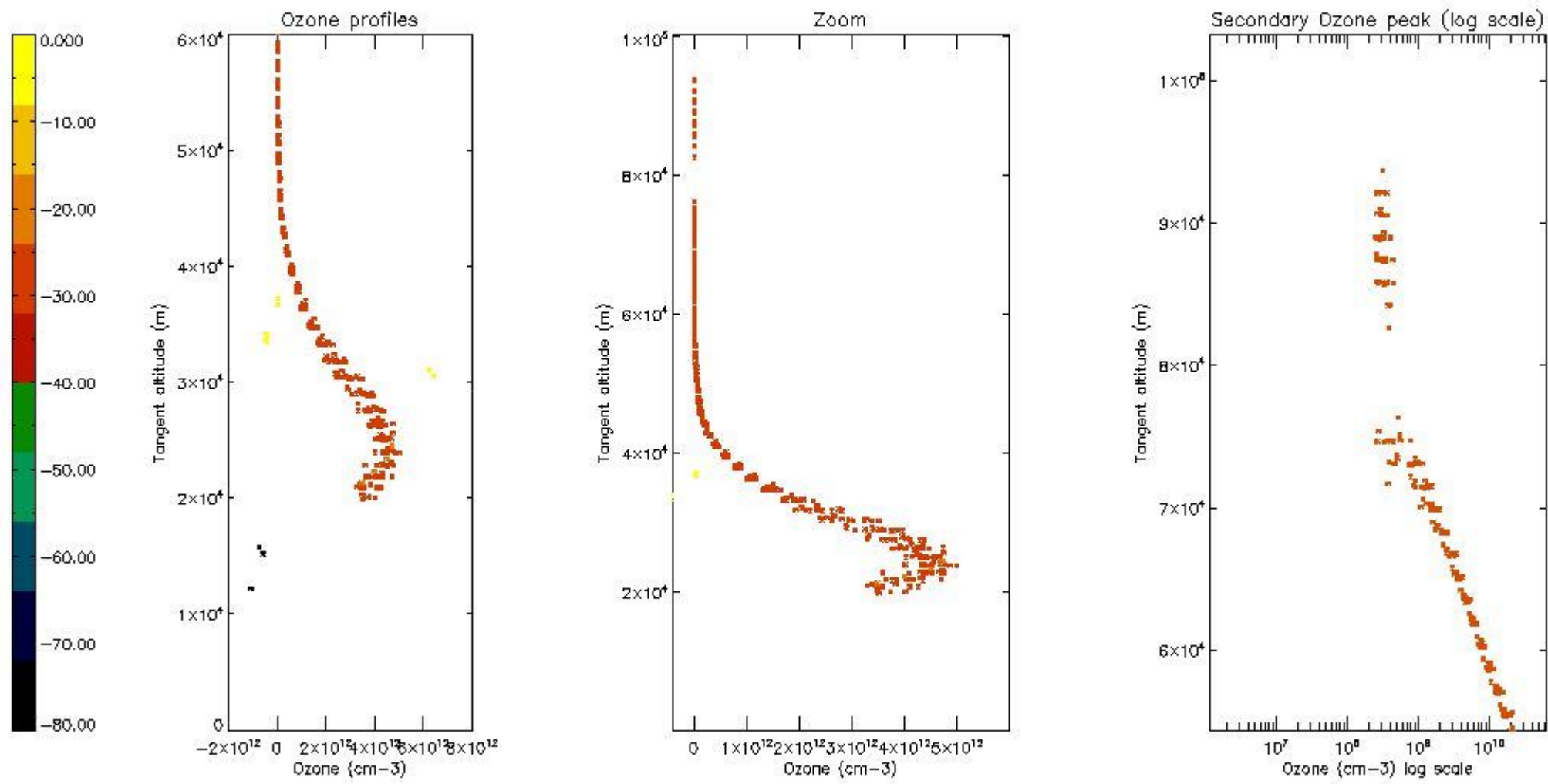
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



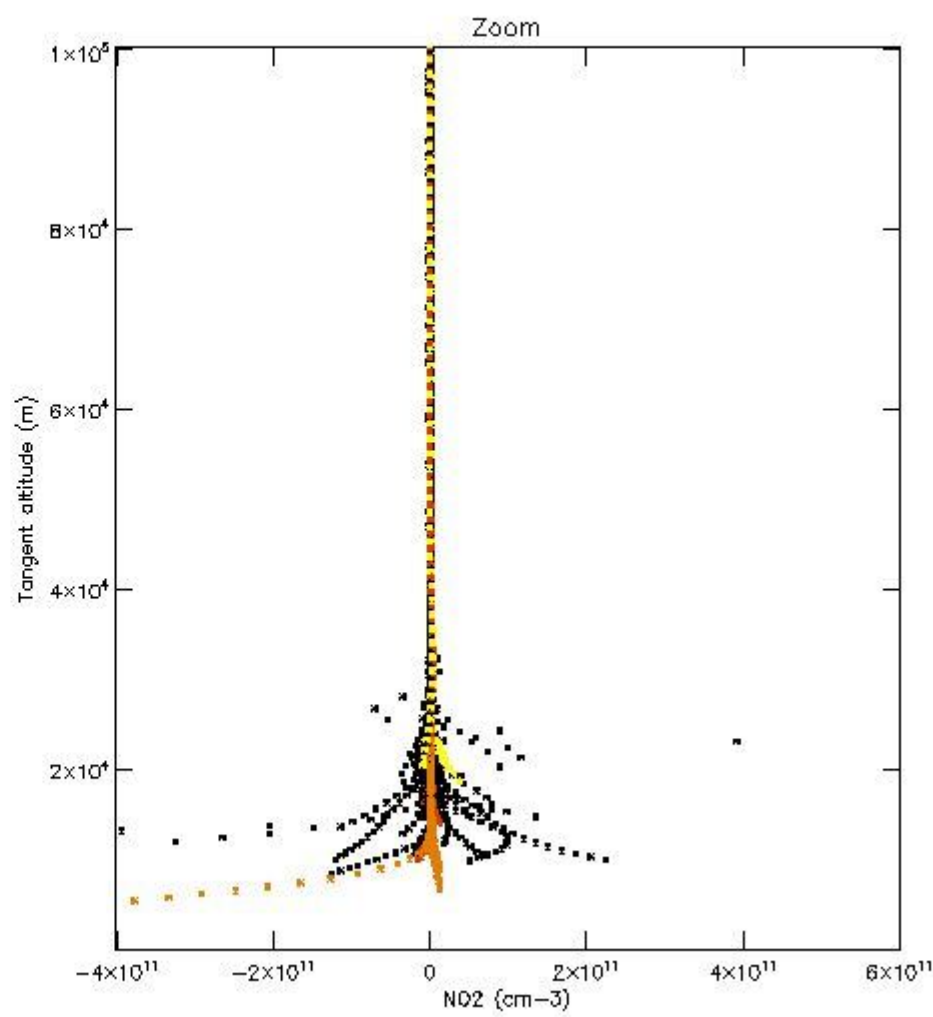
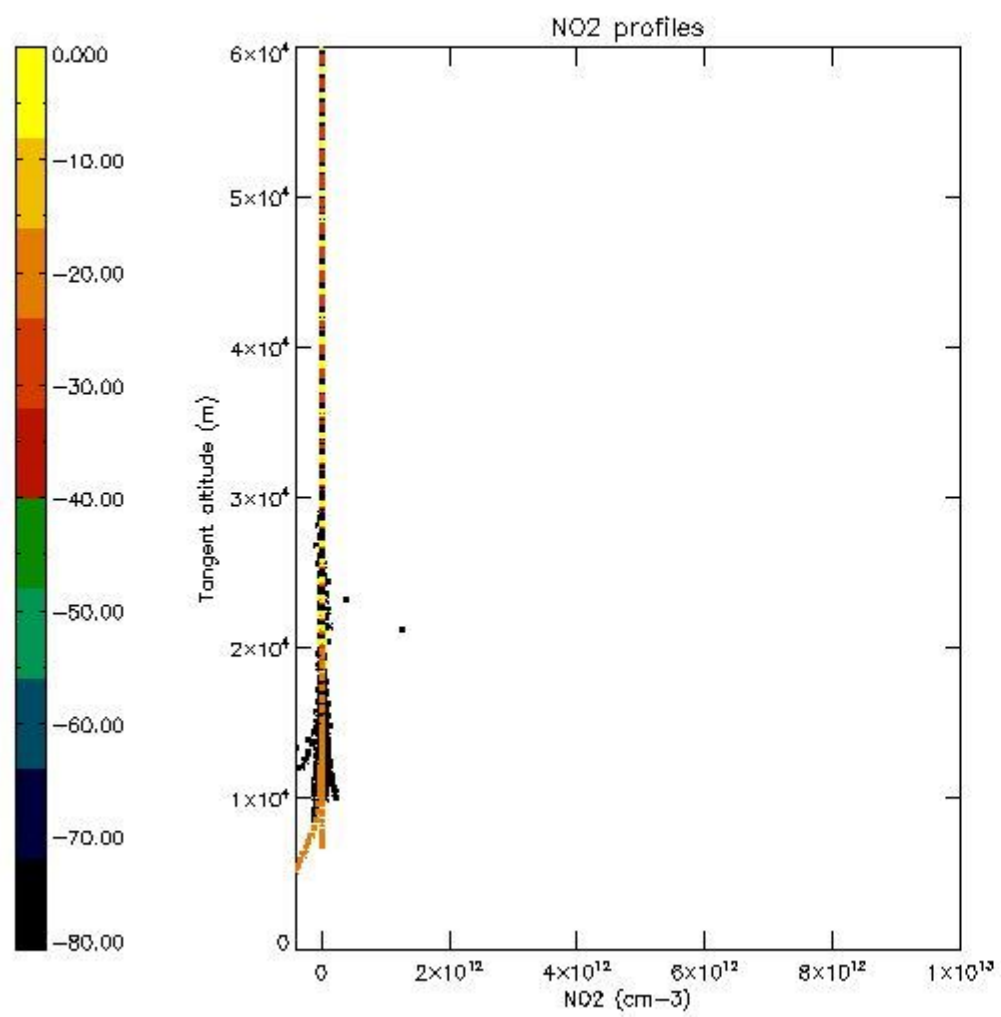
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



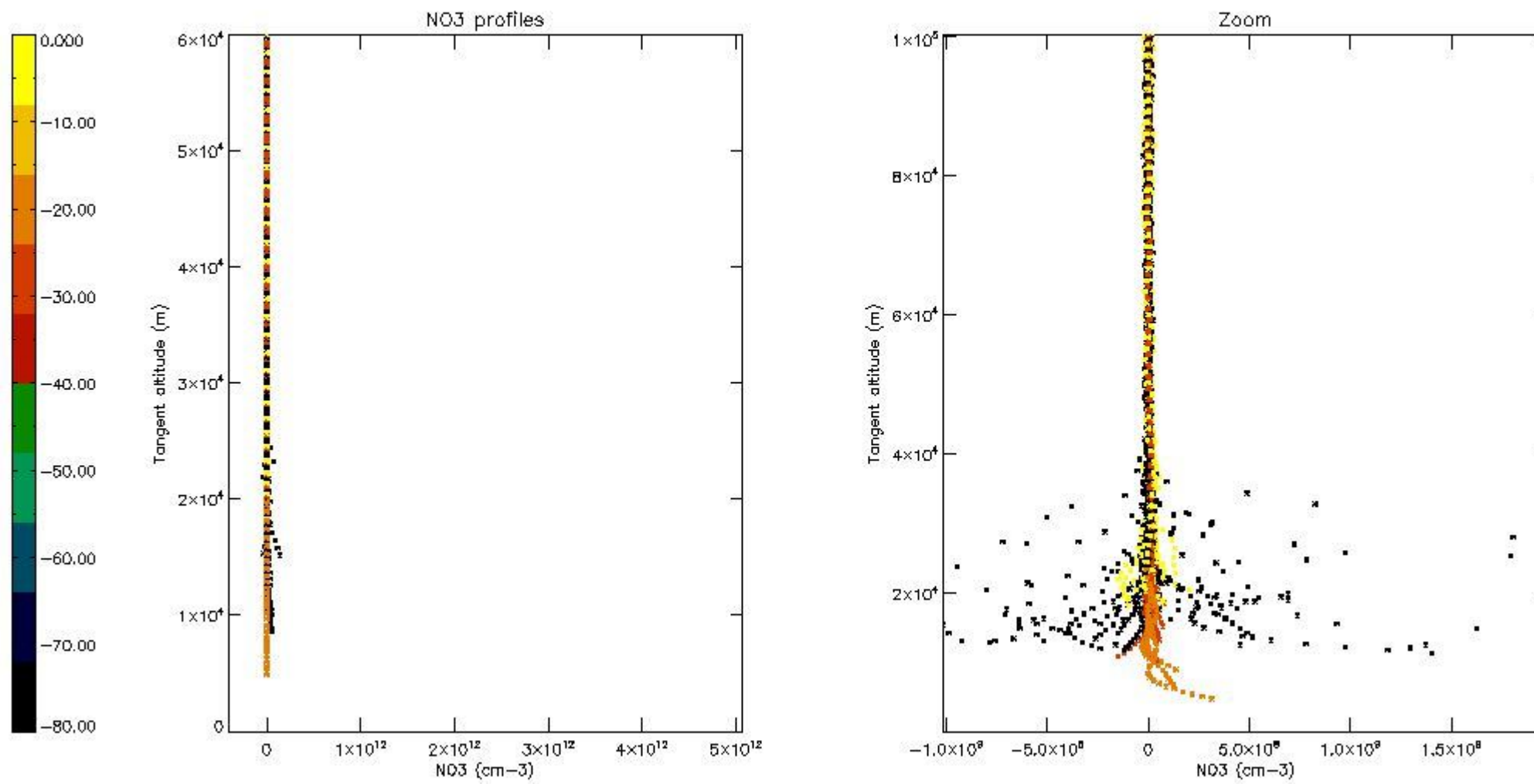
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

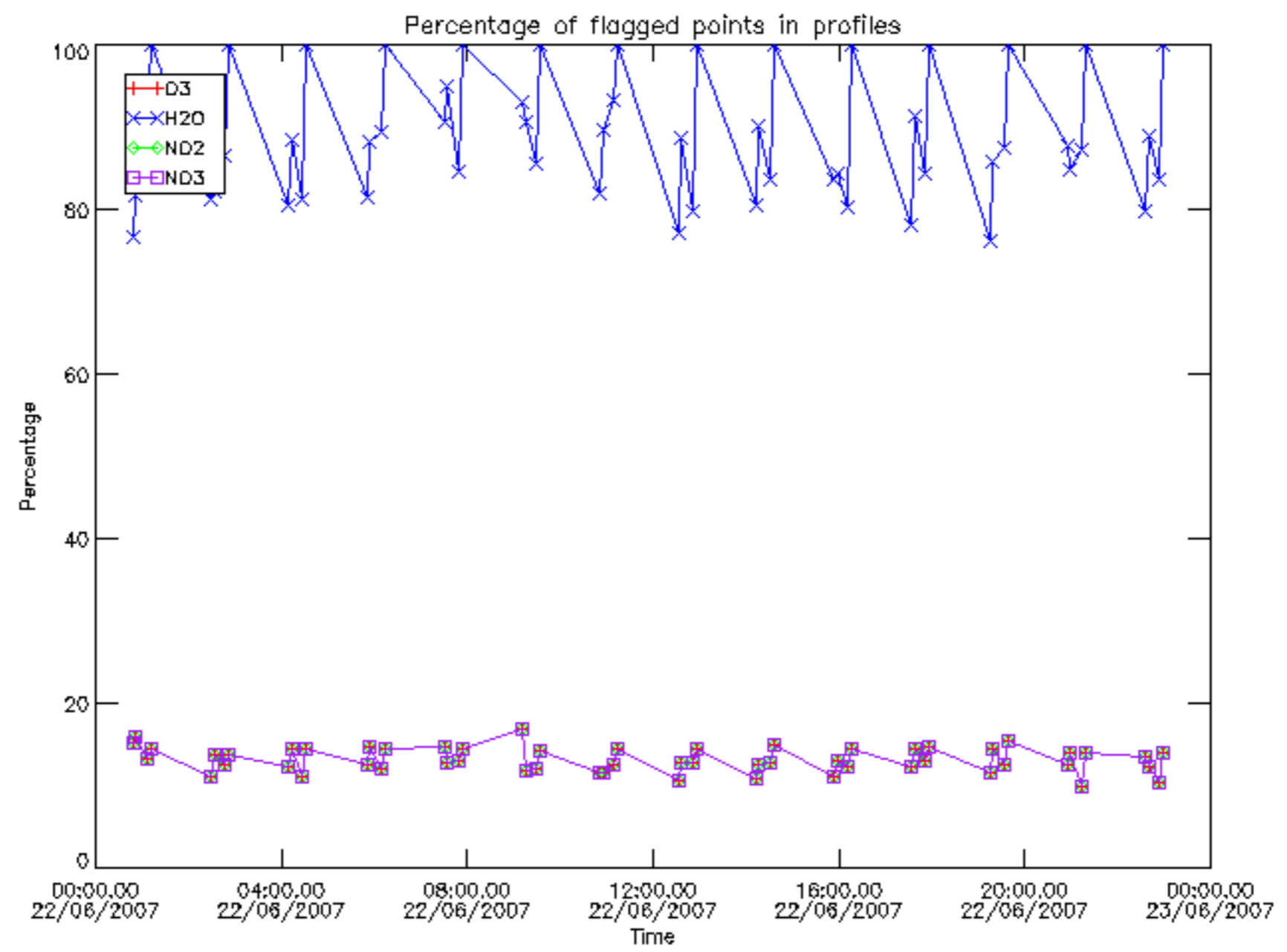
The colorbar represents the latitude.



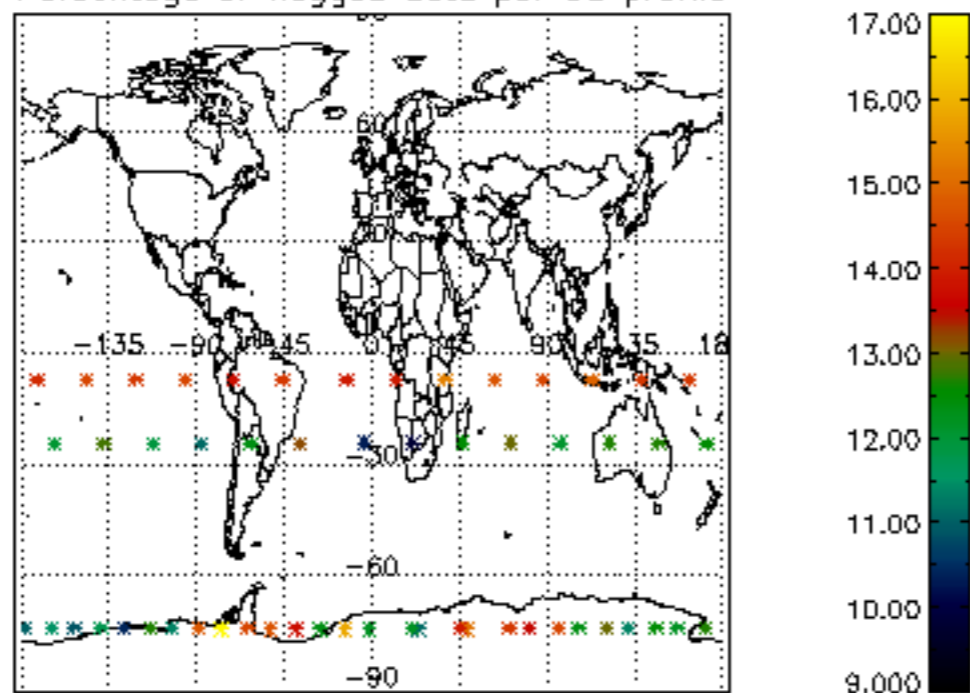
6. Auxiliary Data Files used for the production reported in section 2

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.

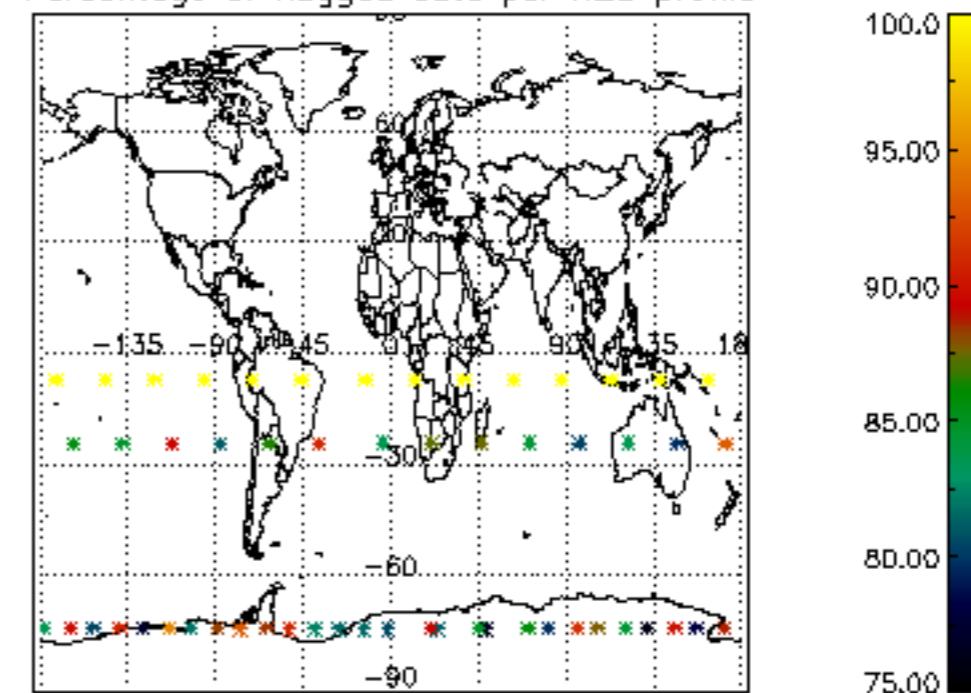
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-JUN-2007 00:03:44
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-JUN-2007 00:03:44
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-JUN-2007 00:03:44



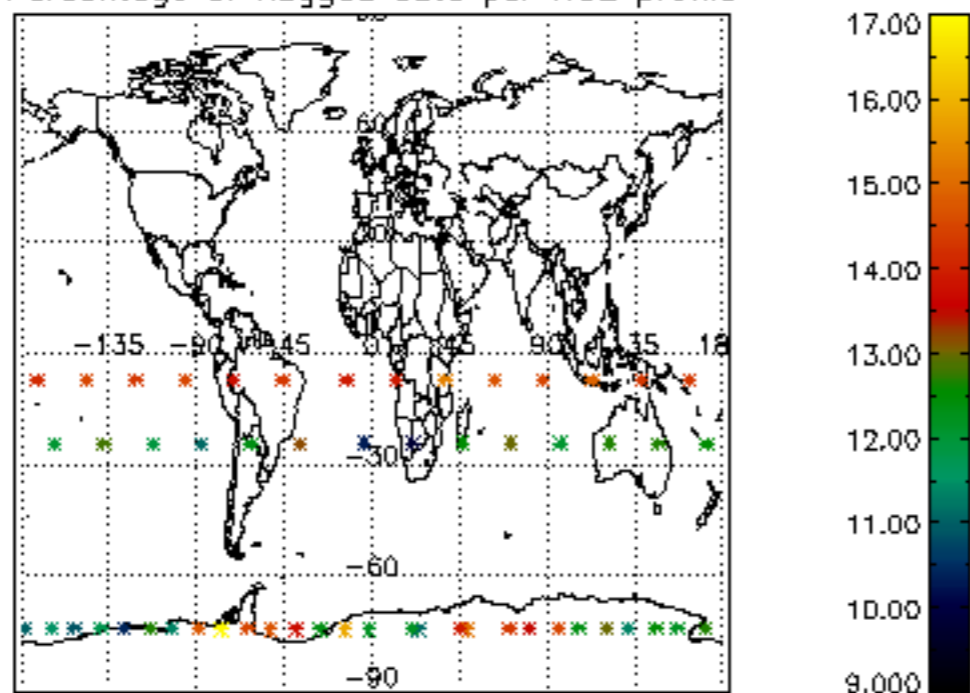
Percentage of flagged data per D3 profile



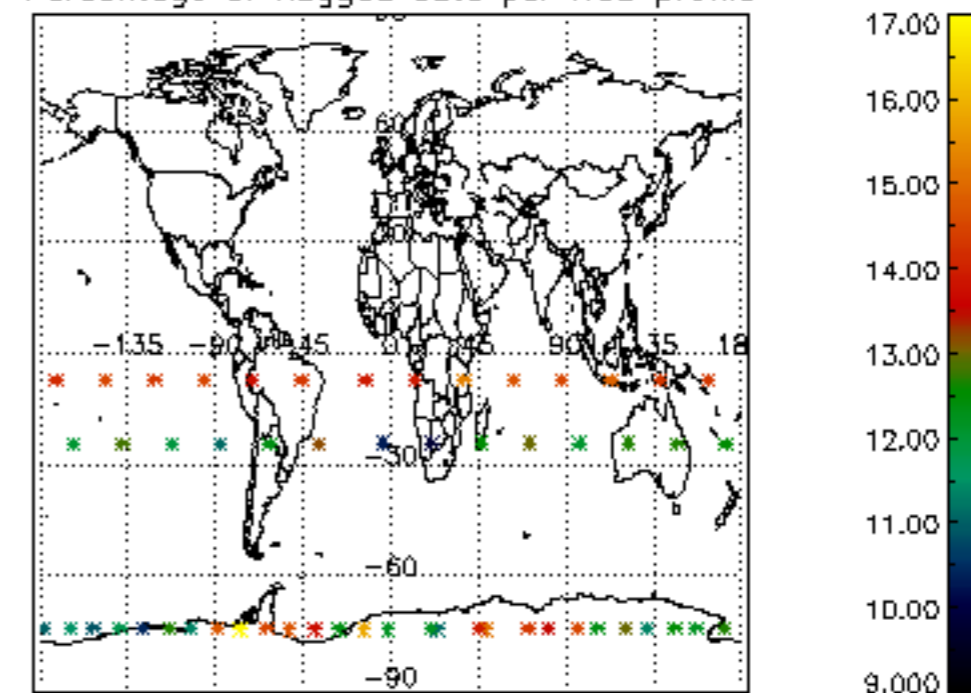
Percentage of flagged data per H2O profile

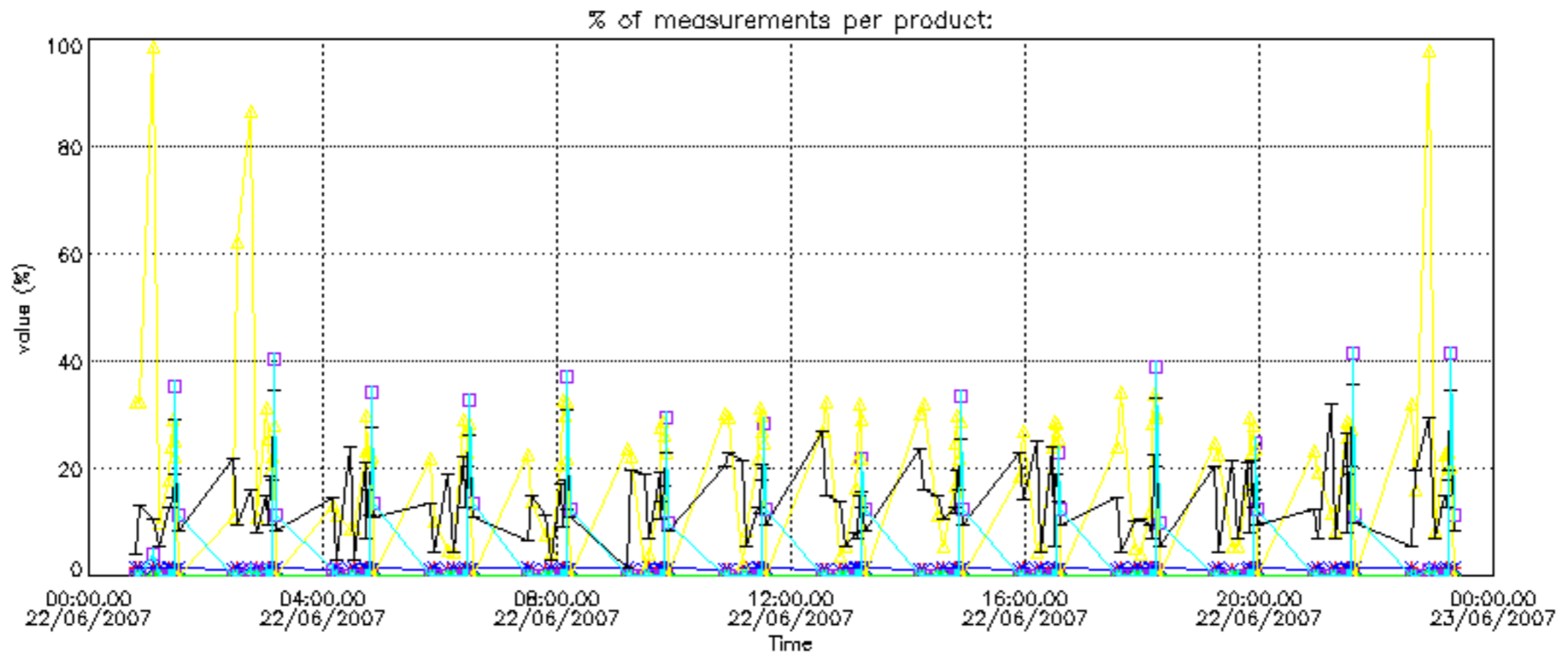


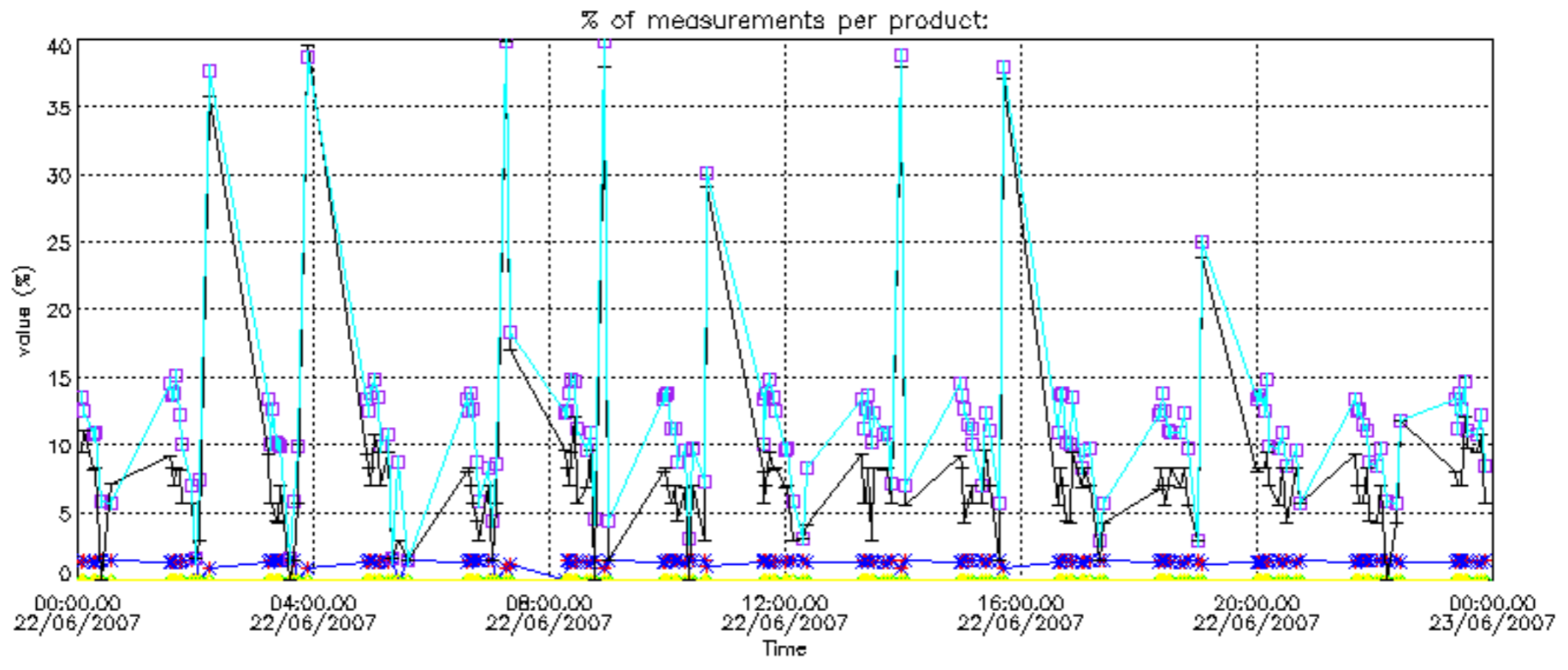
Percentage of flagged data per NO2 profile



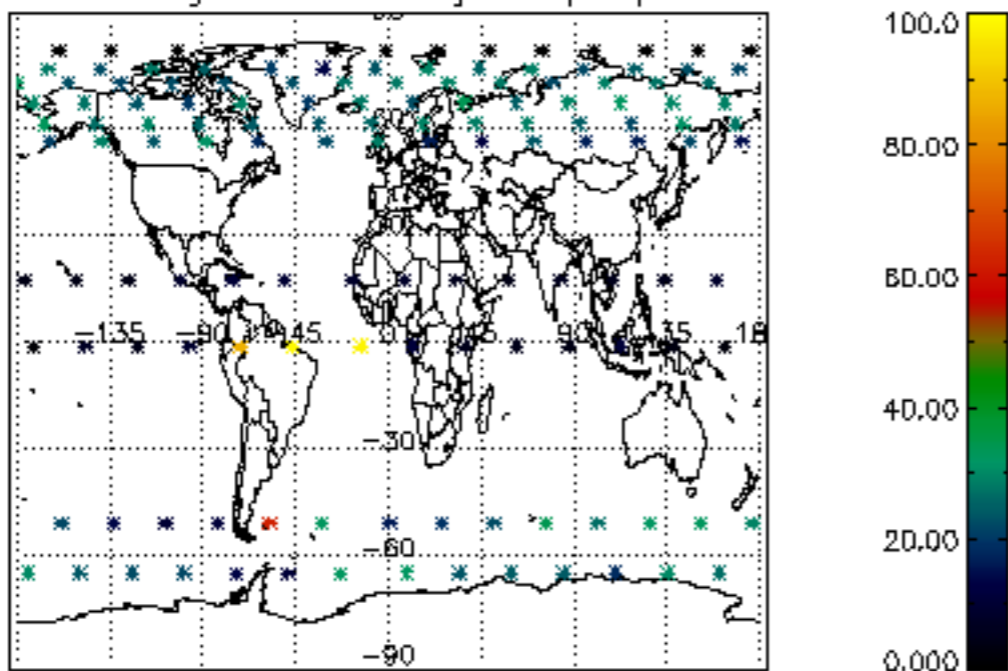
Percentage of flagged data per NO3 profile



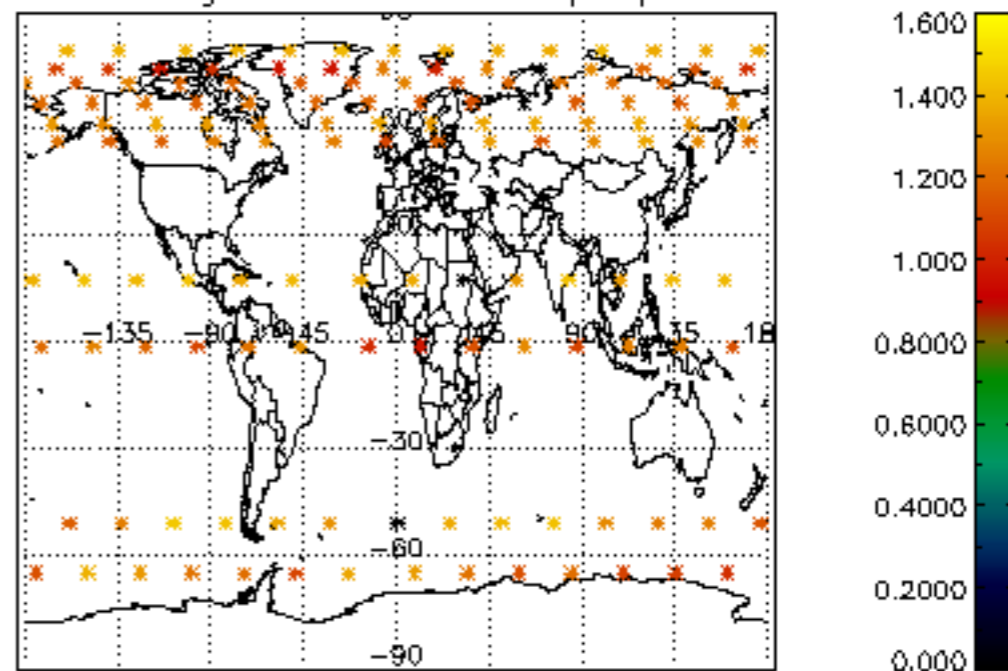




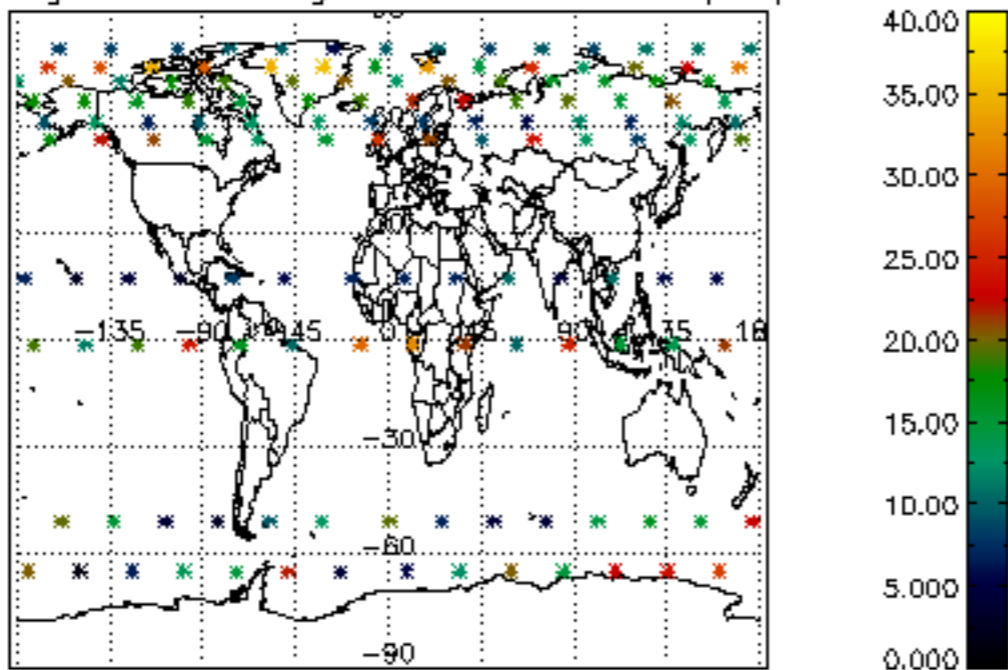
Percentage of cosmic ray hits per profile



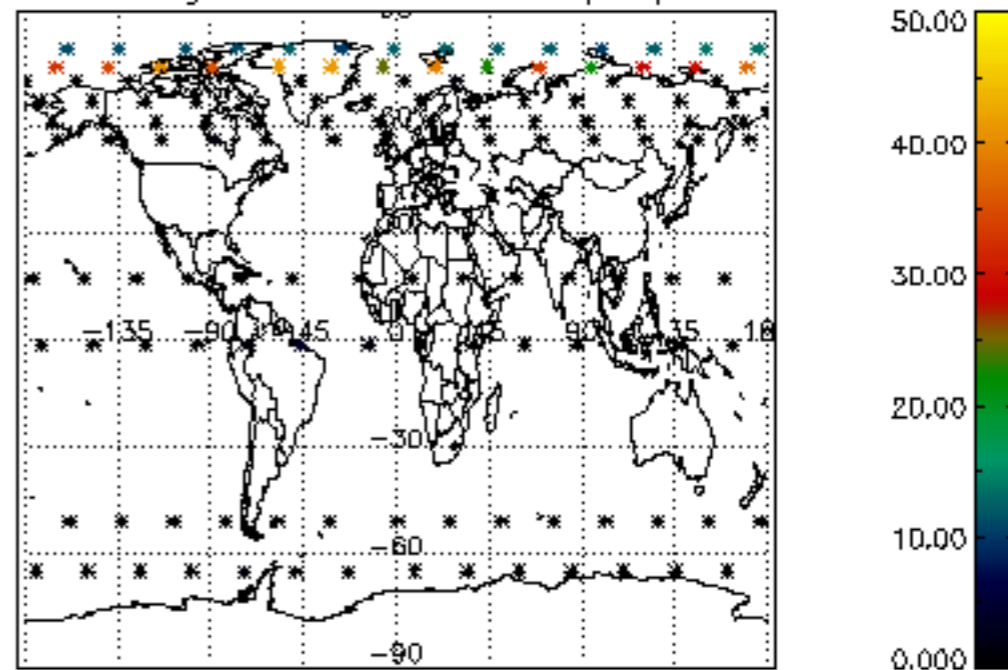
Percentage of datation errors per profile



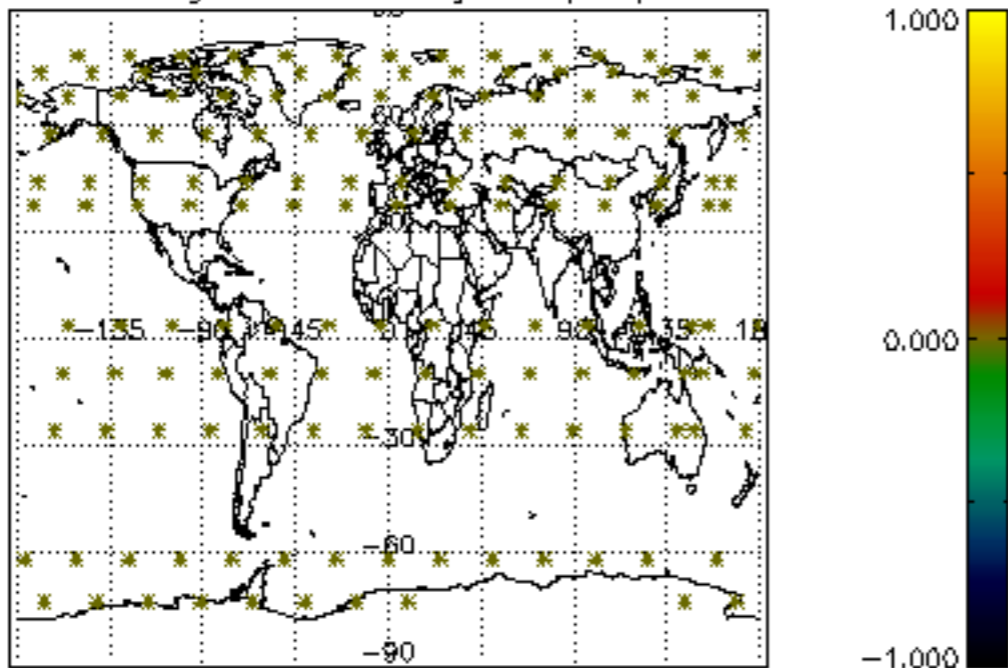
Percentage of star falling outside central band per profile



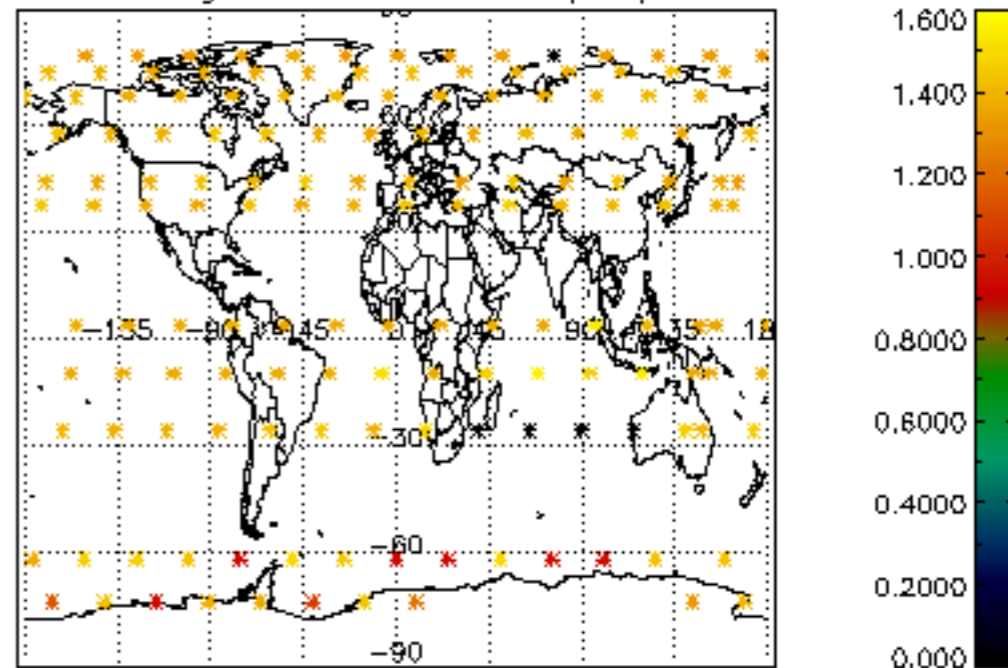
Percentage of saturation errors per profile



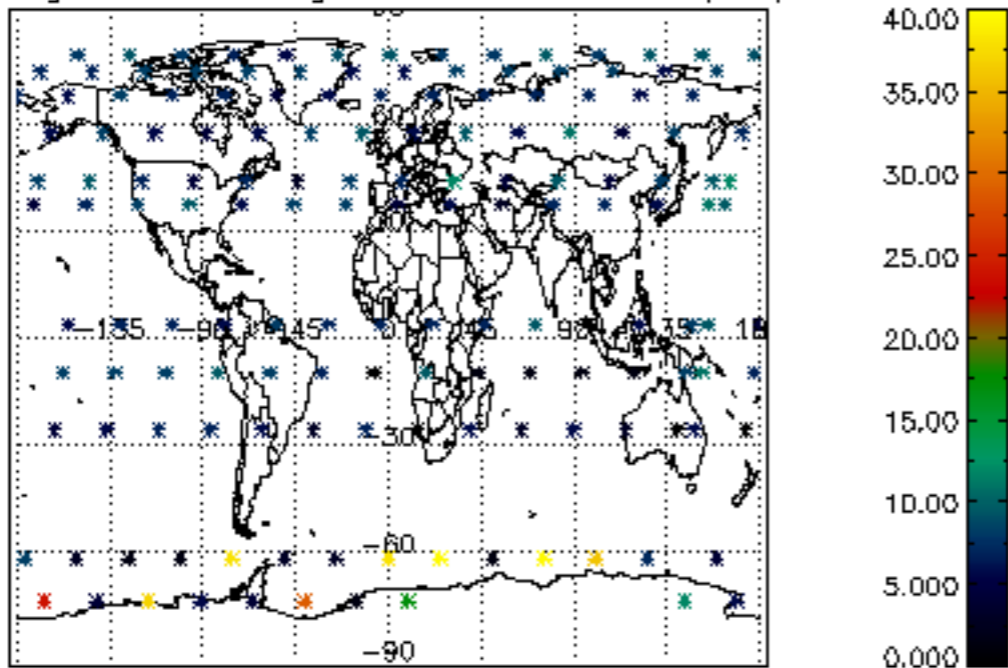
Percentage of cosmic ray hits per profile



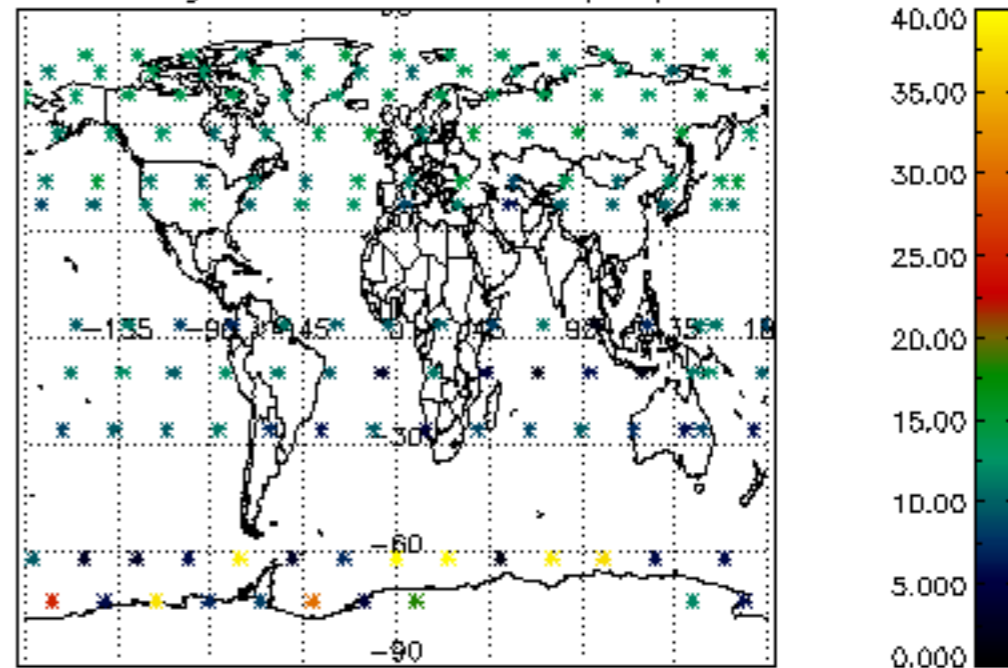
Percentage of datation errors per profile

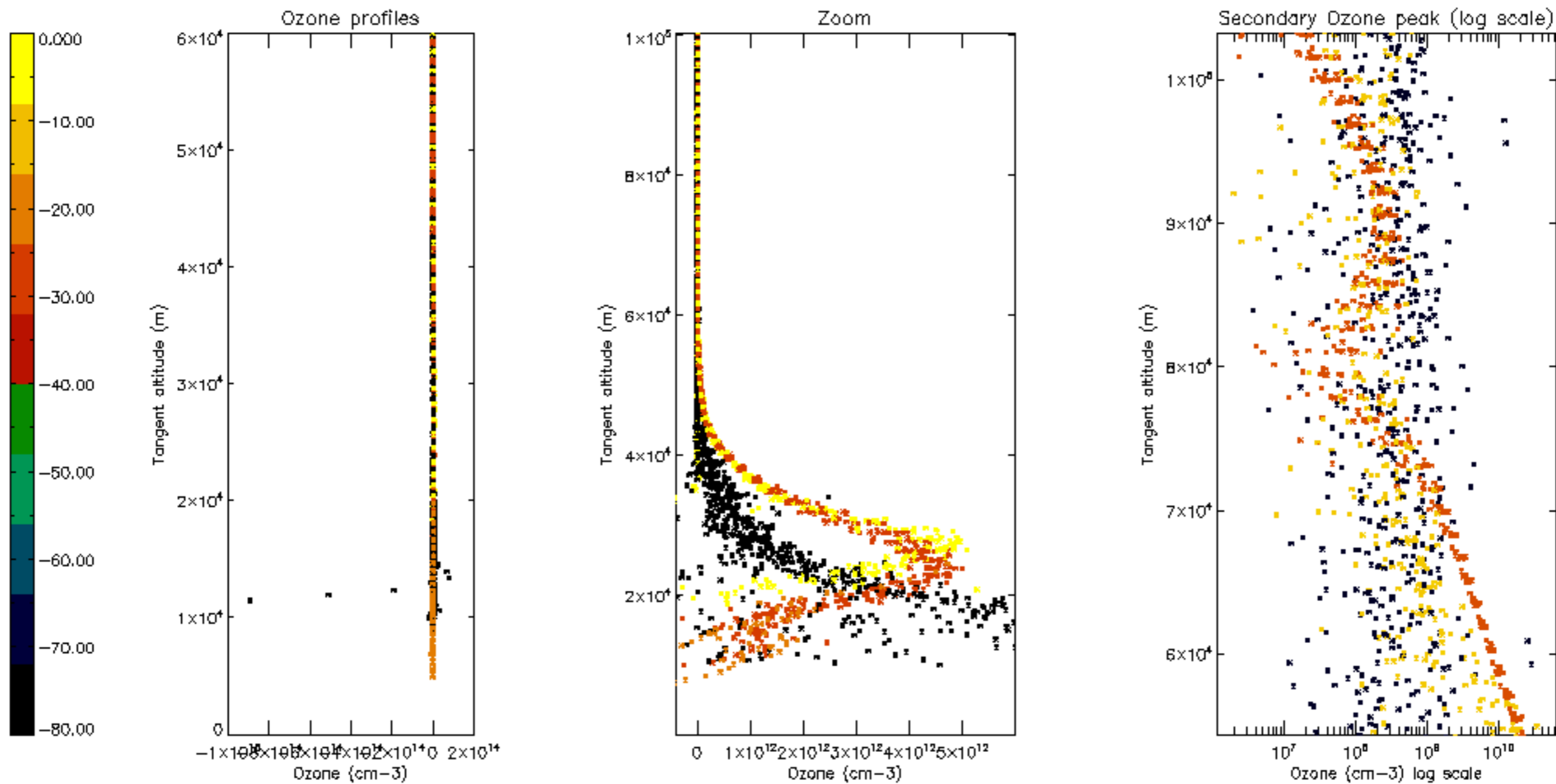


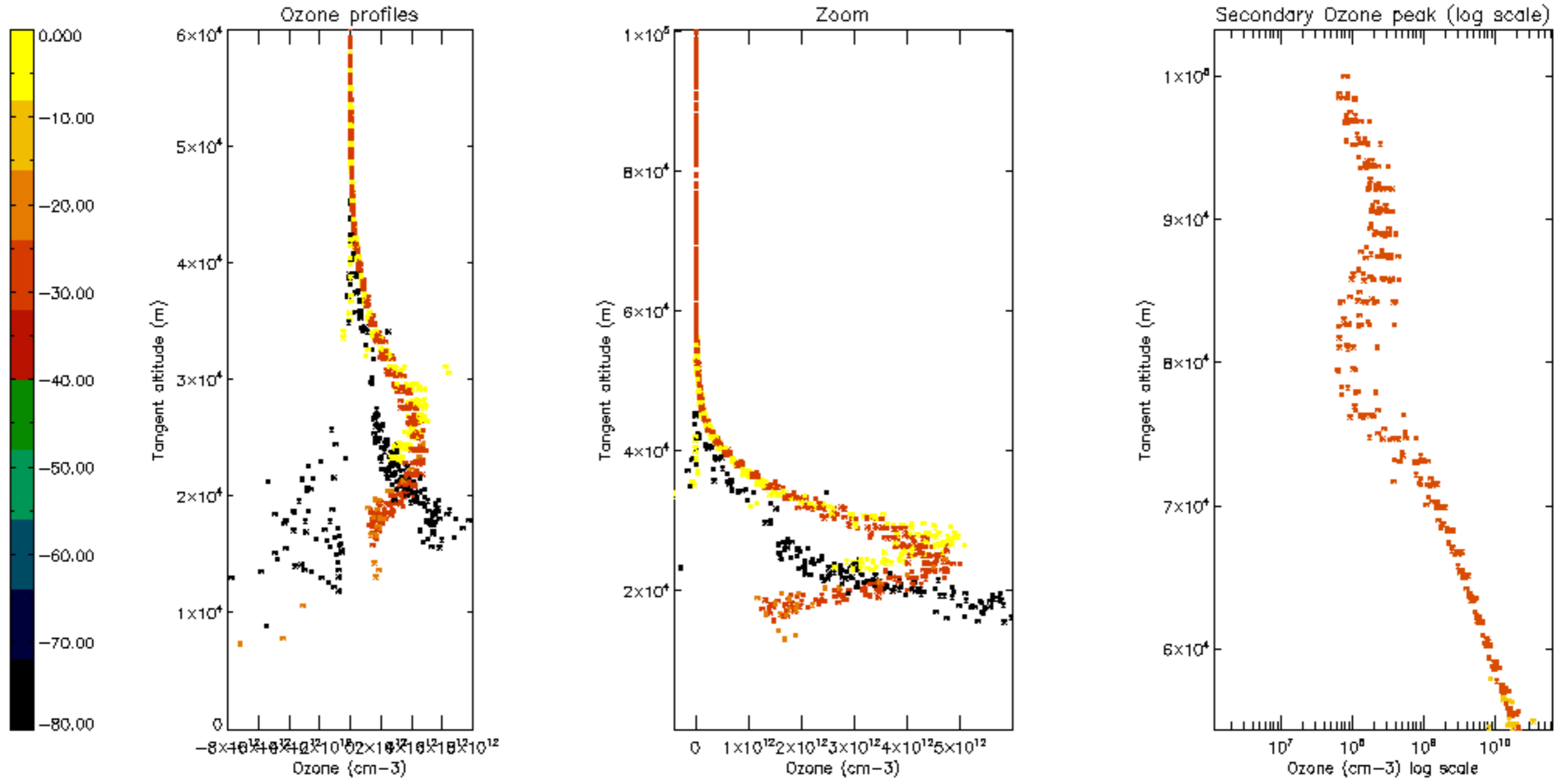
Percentage of star falling outside central band per profile

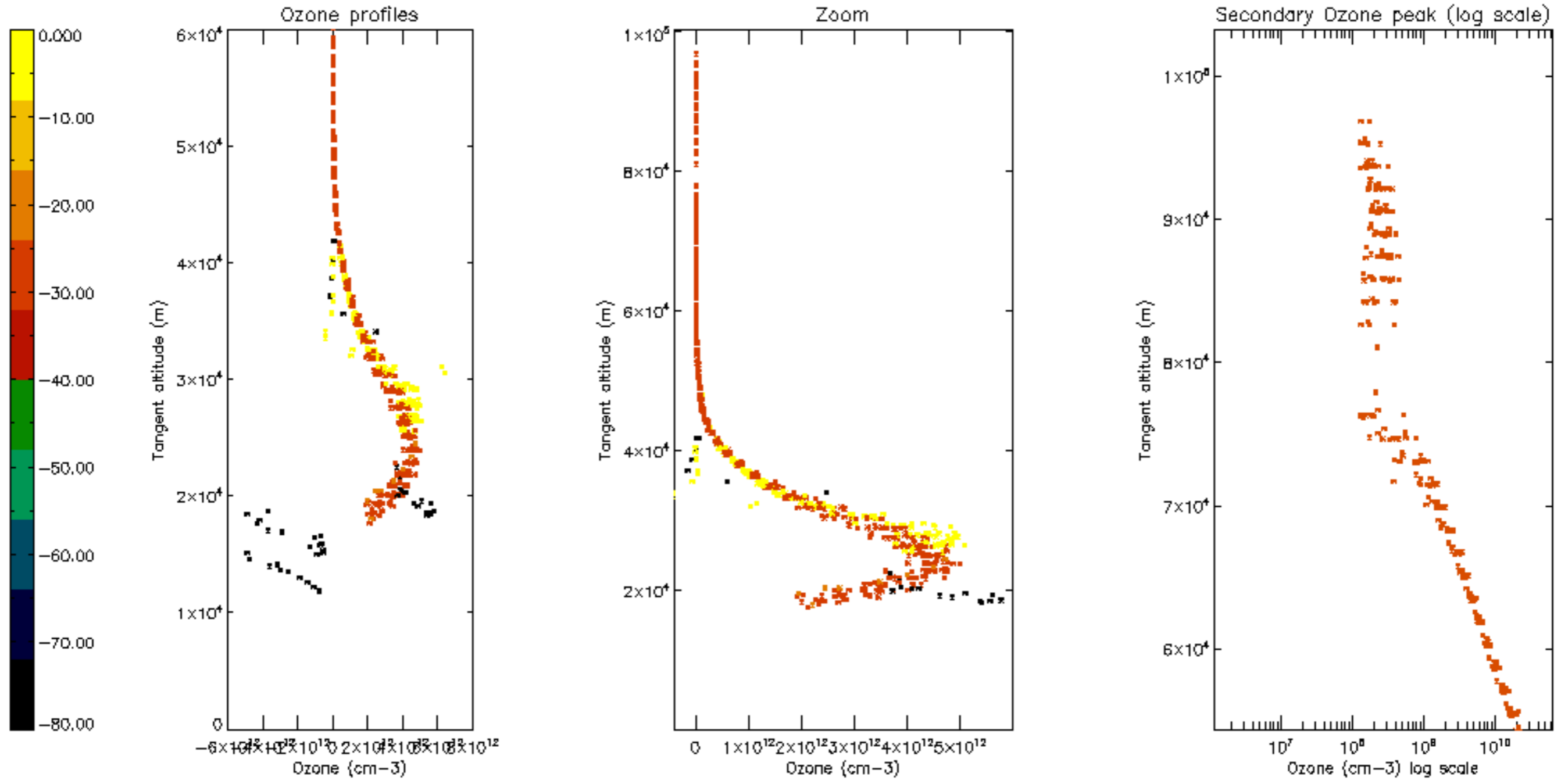


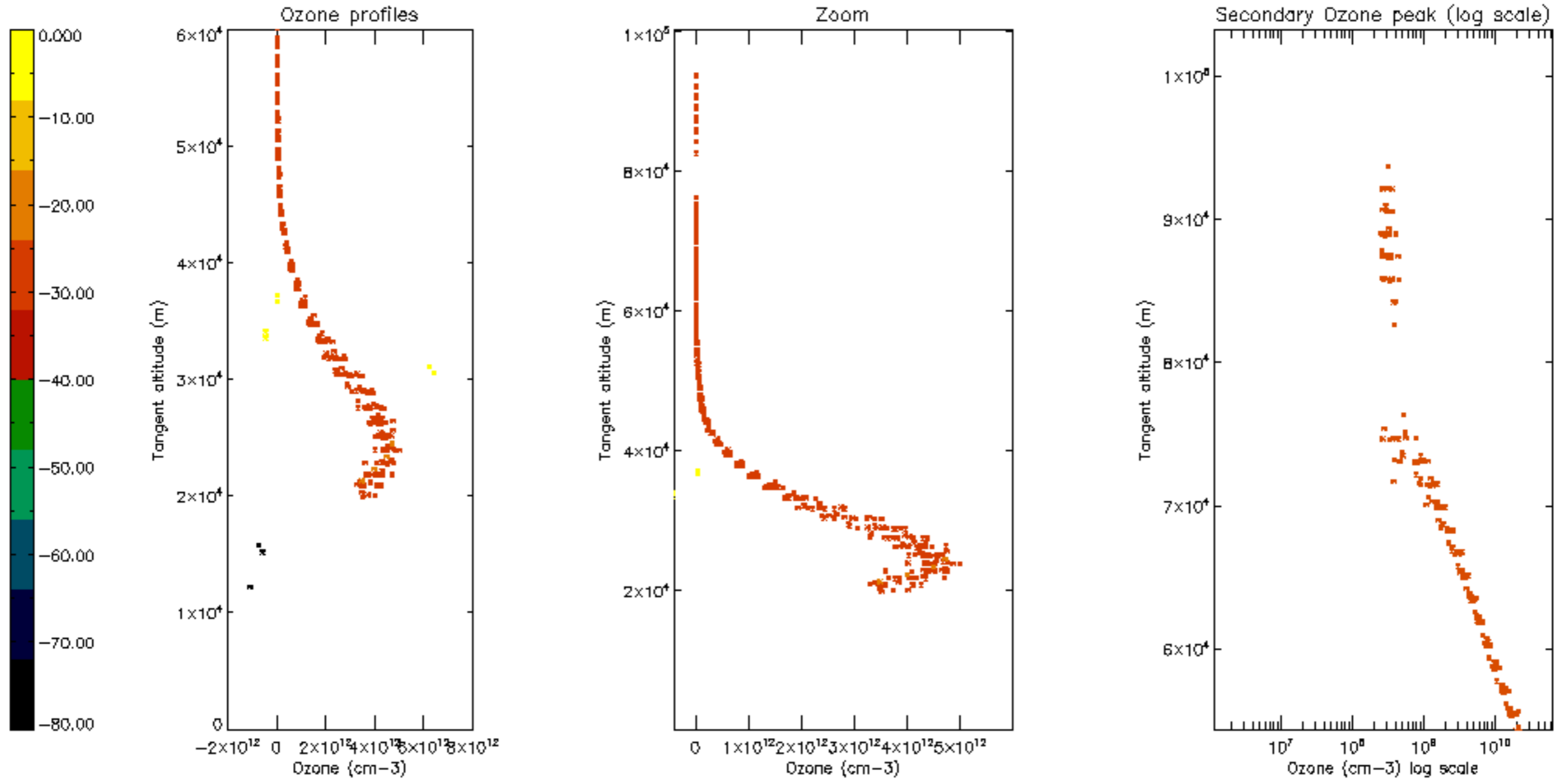
Percentage of saturation errors per profile

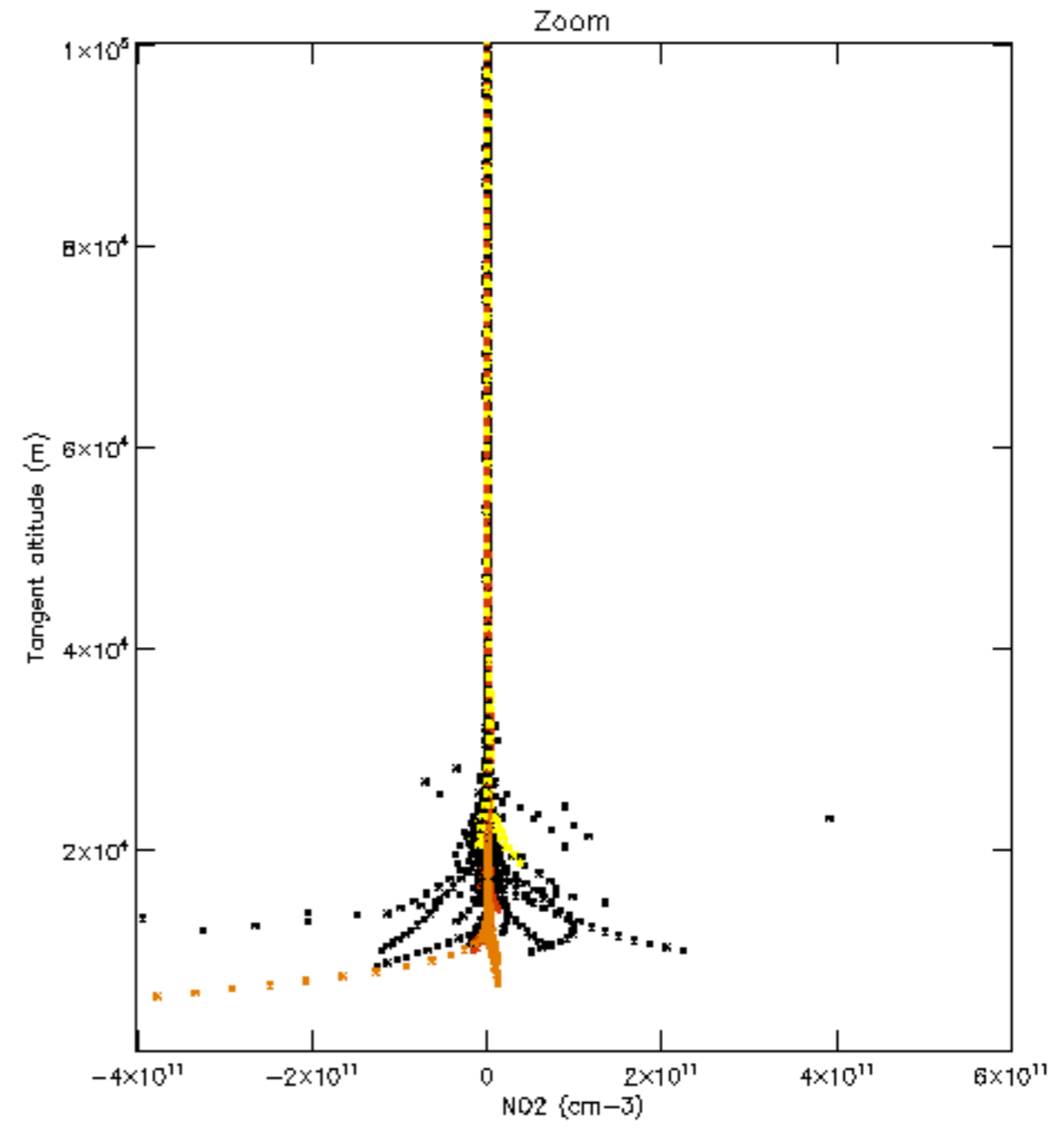
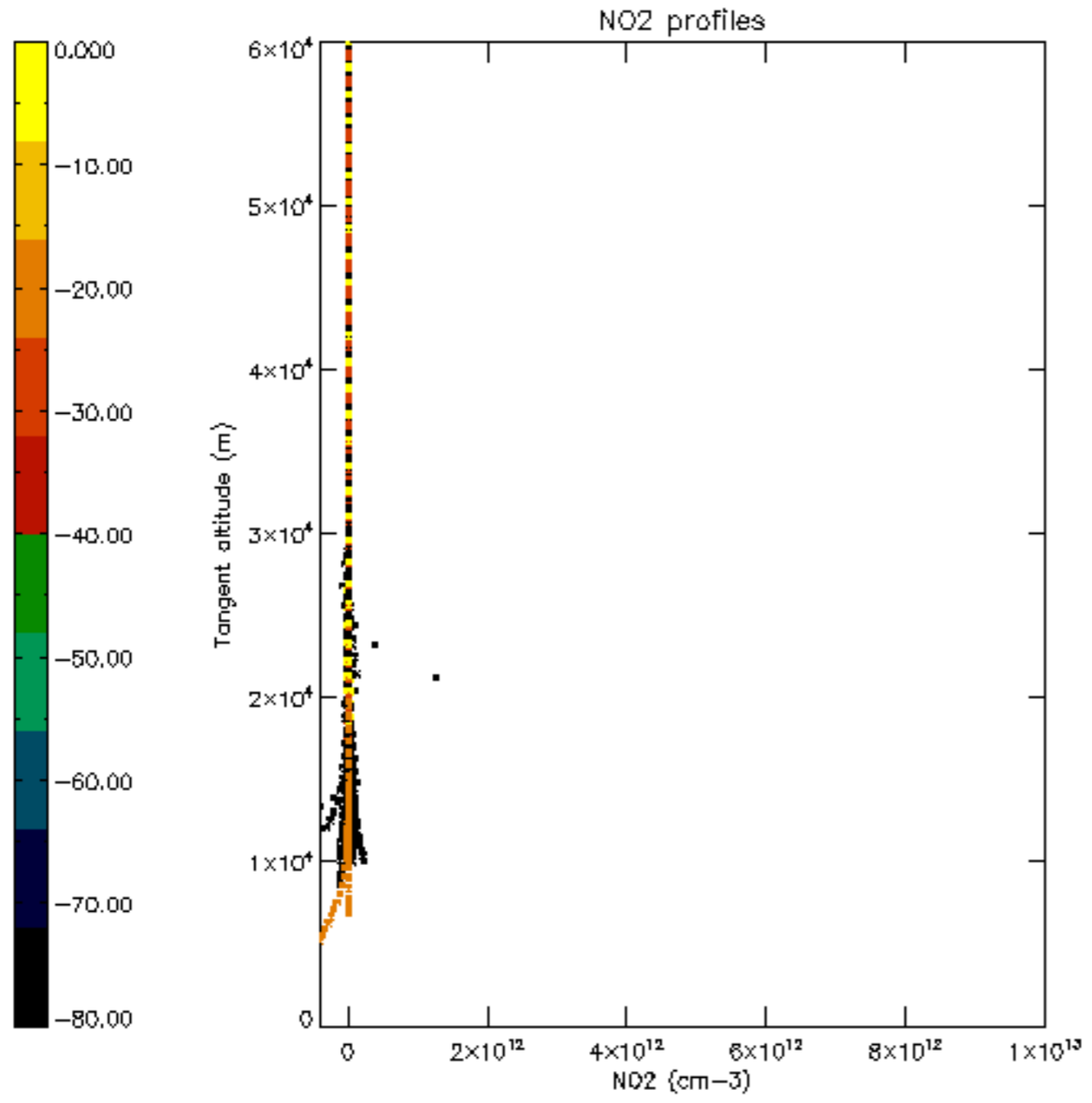


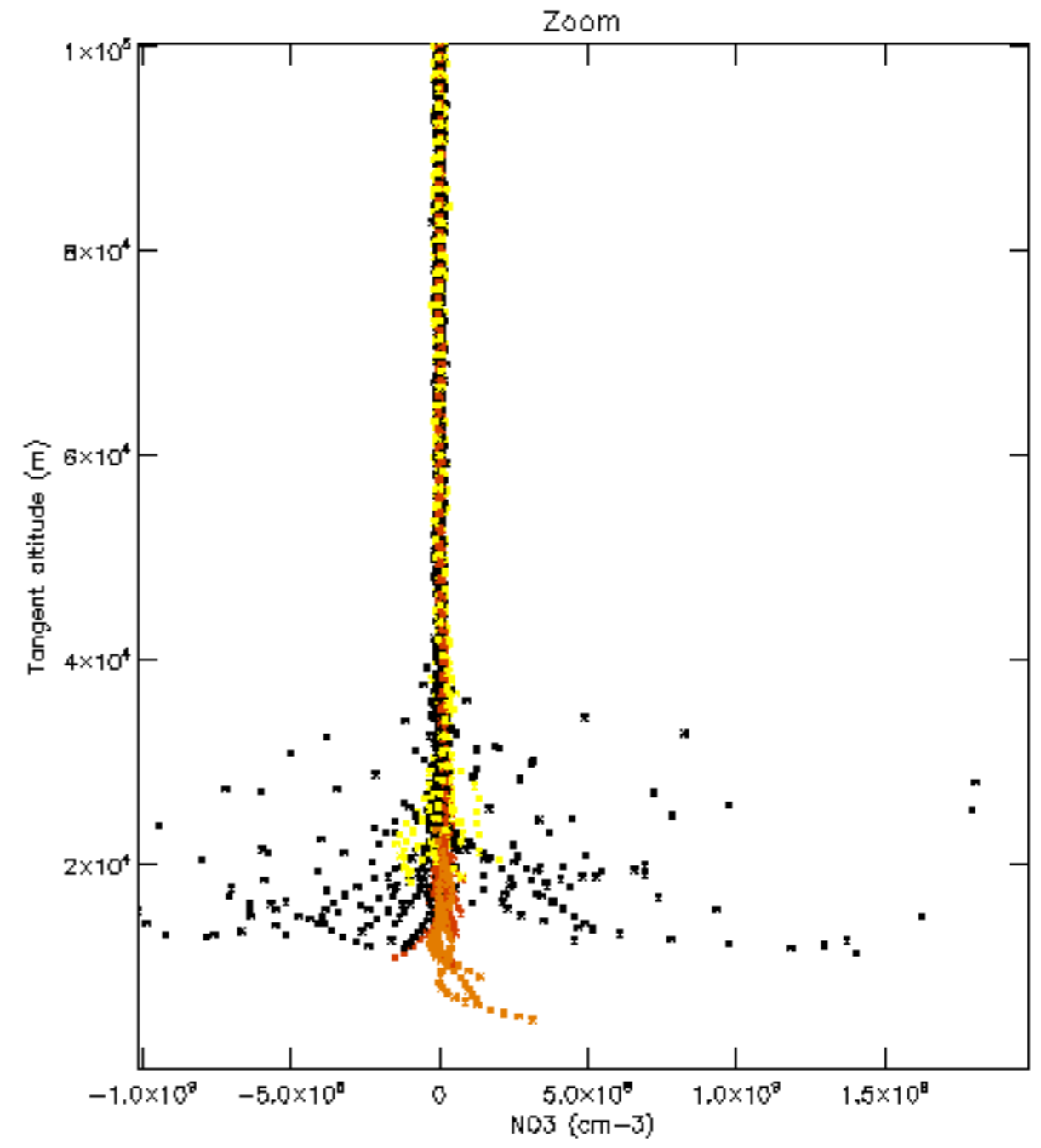
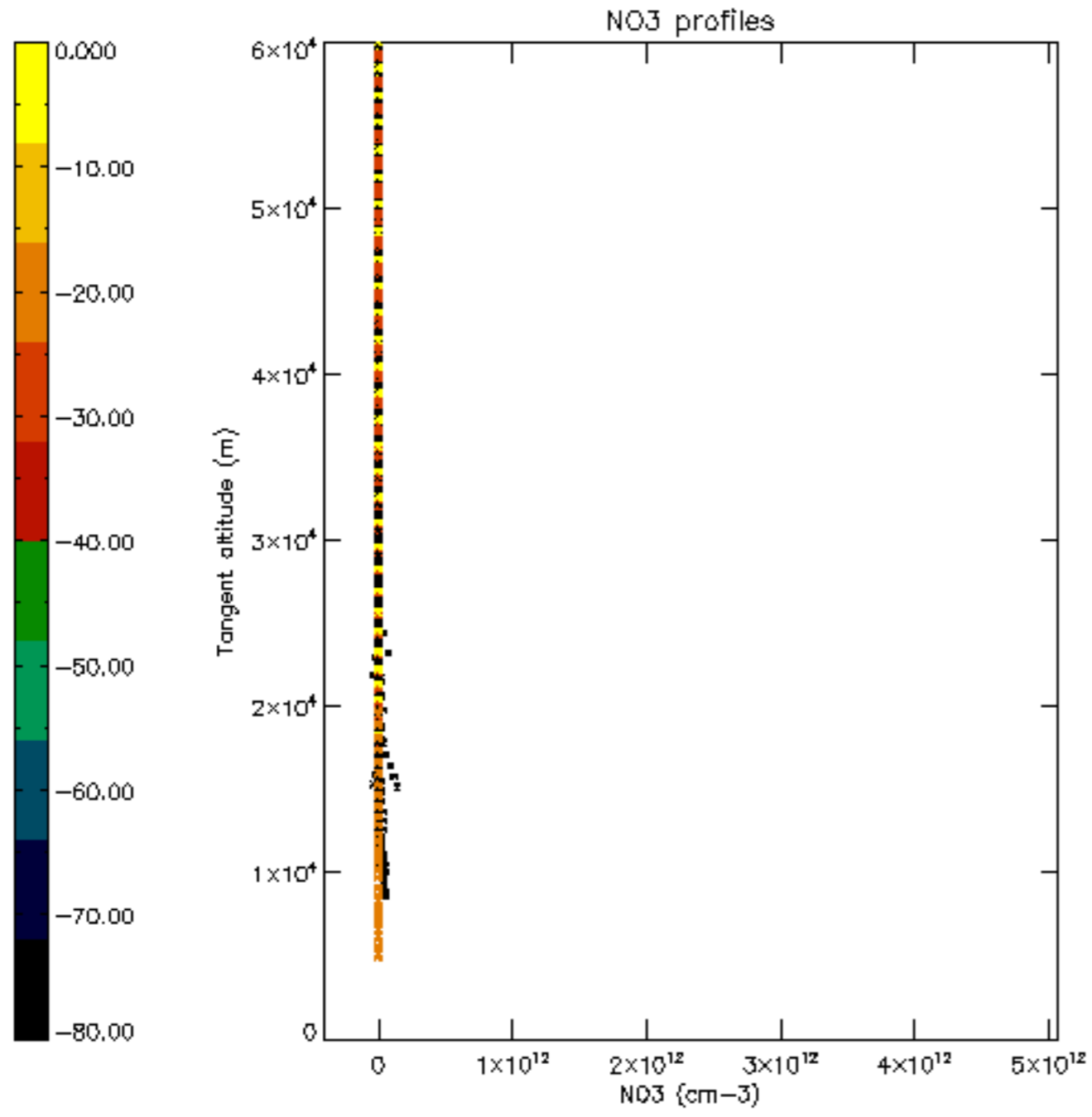


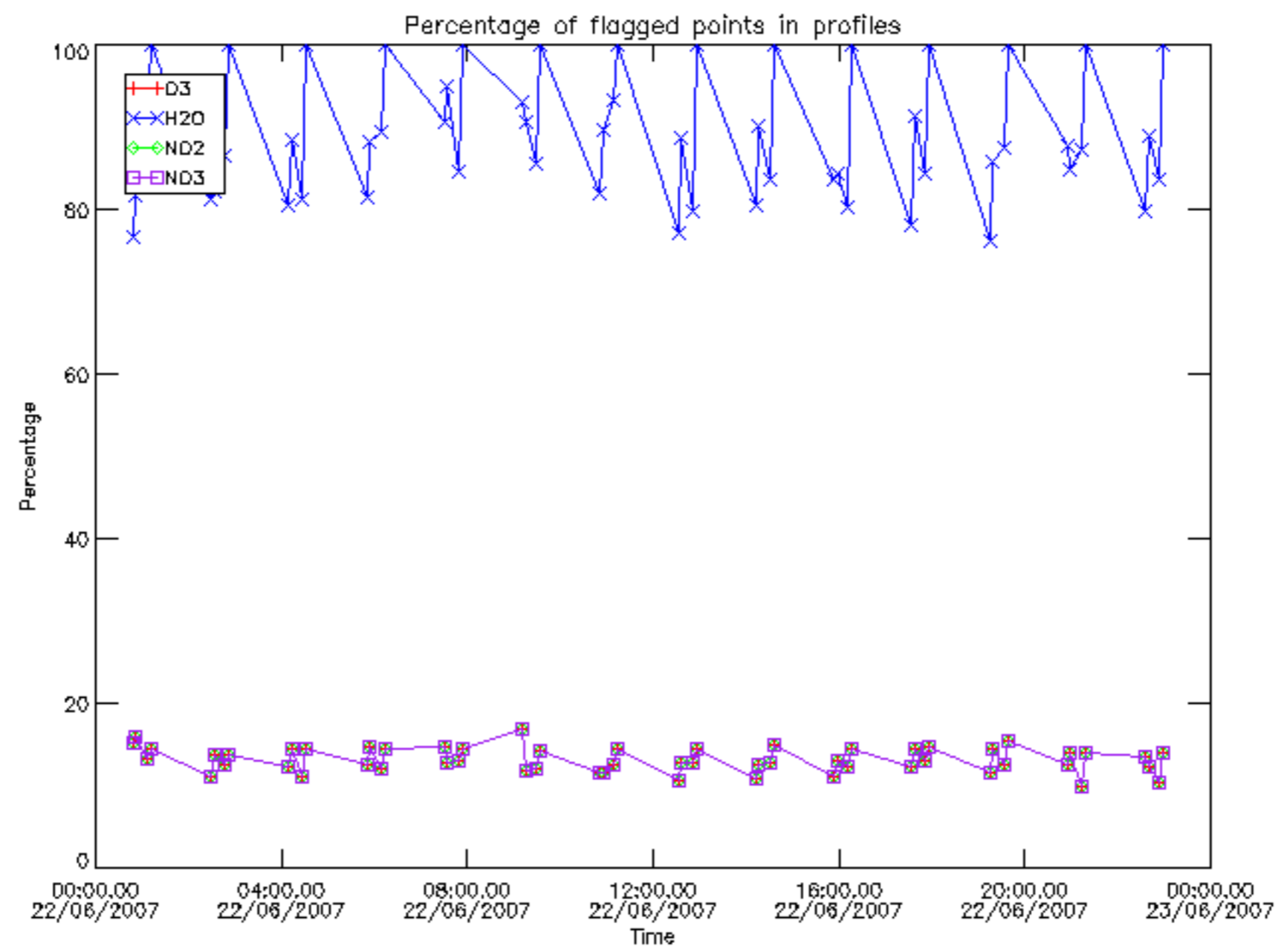




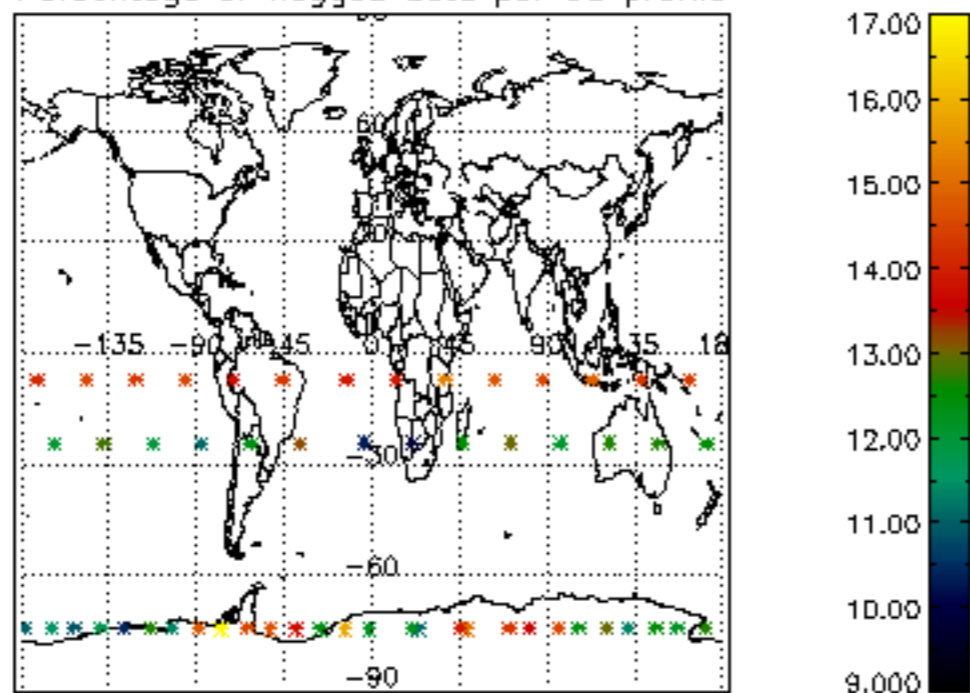




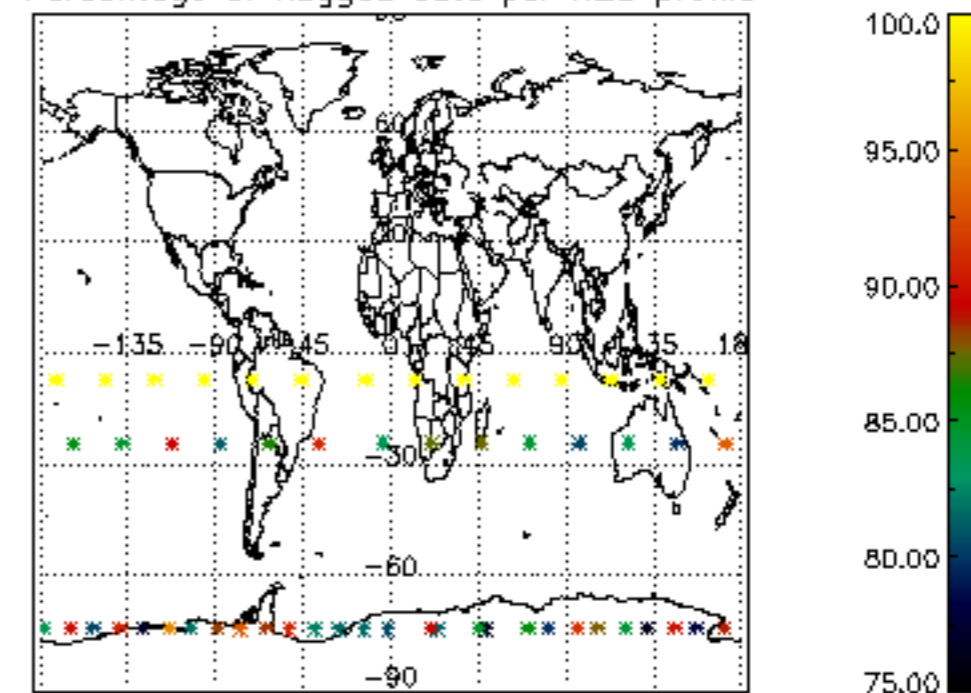




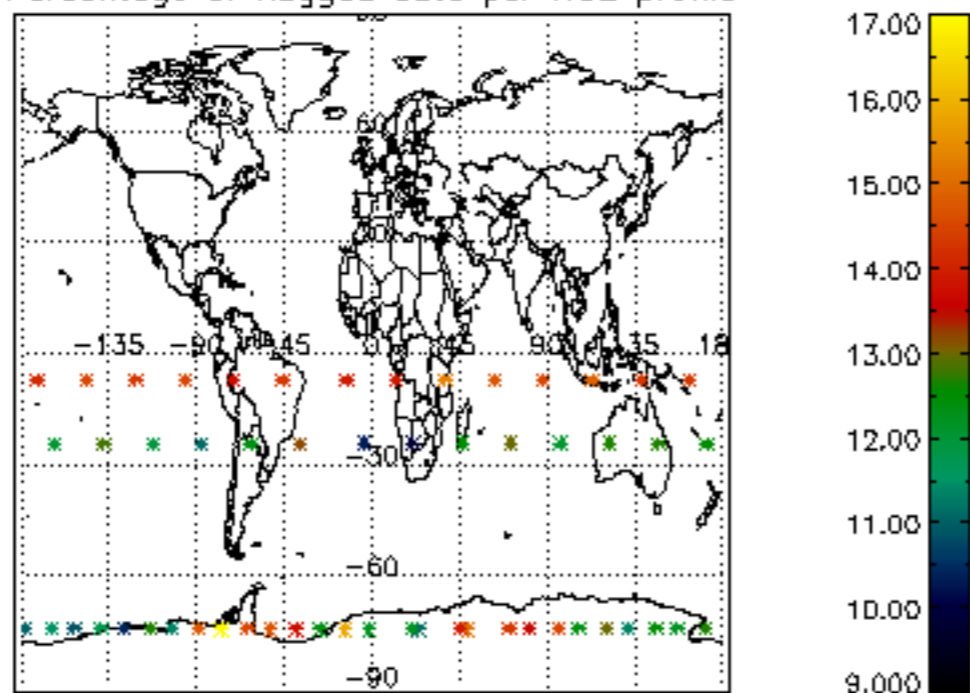
Percentage of flagged data per D3 profile



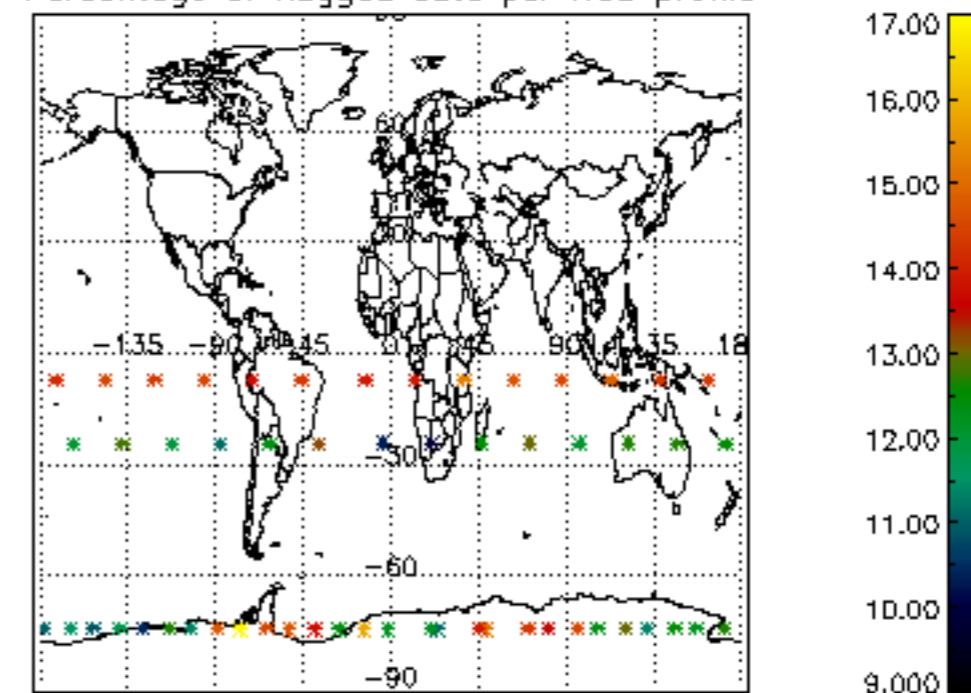
Percentage of flagged data per H2O profile

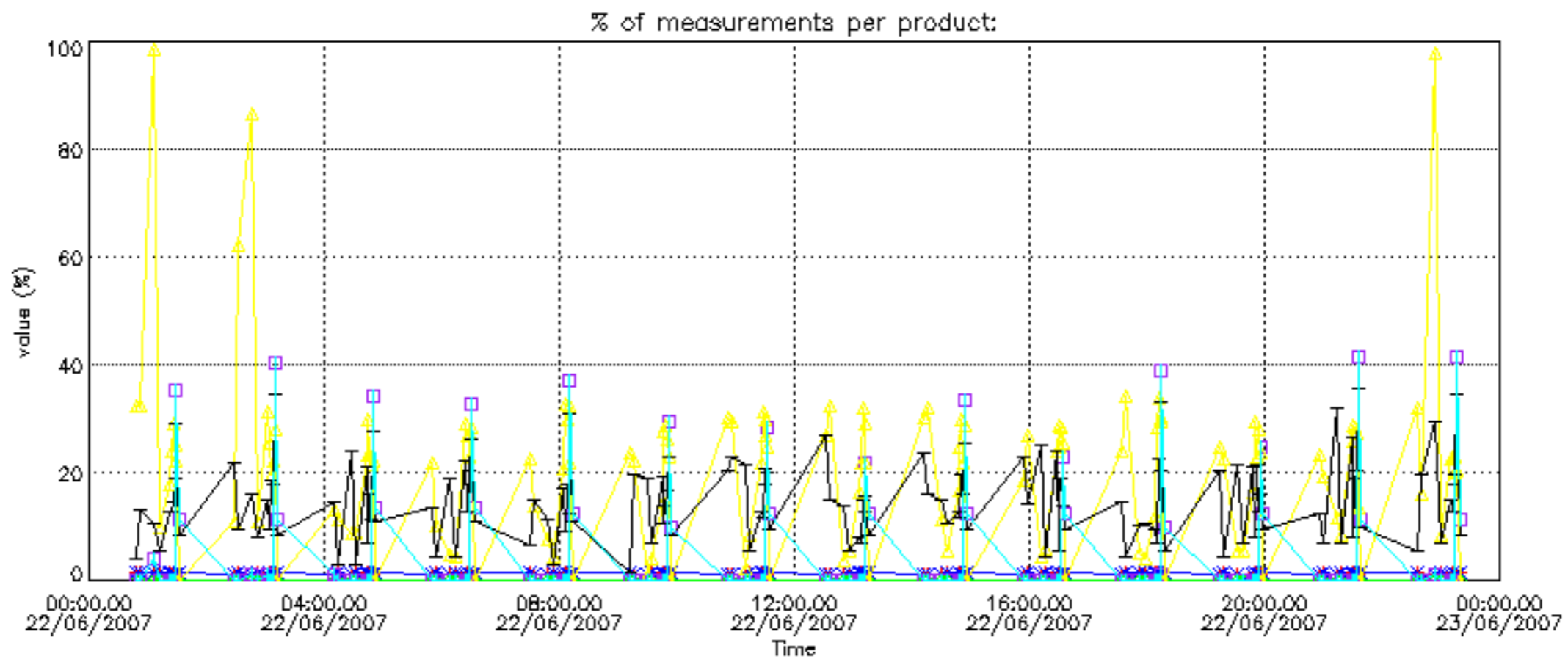


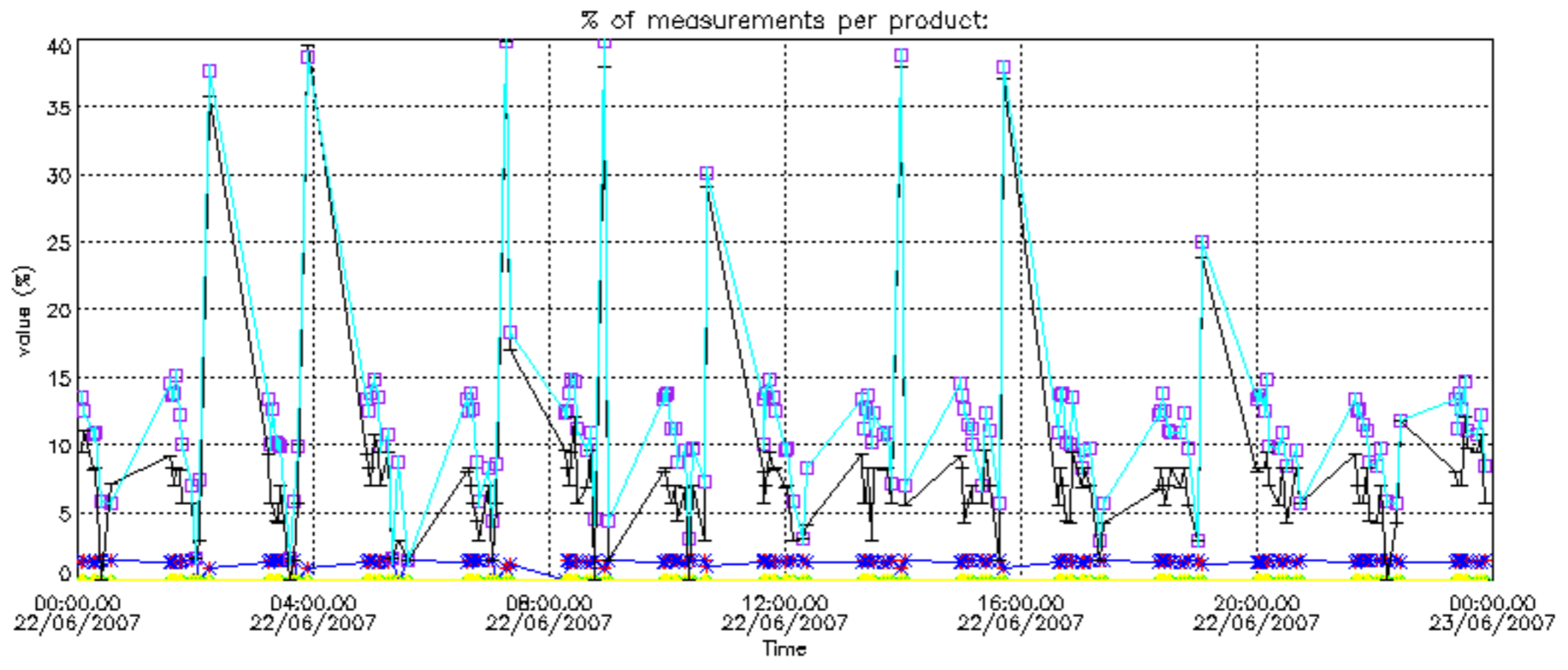
Percentage of flagged data per NO2 profile



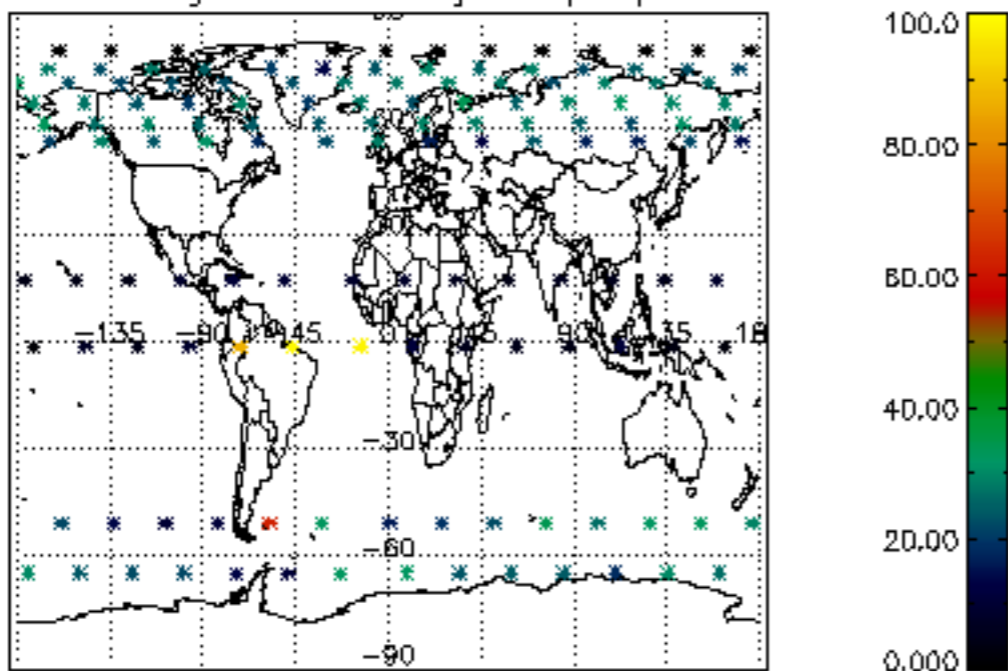
Percentage of flagged data per NO3 profile



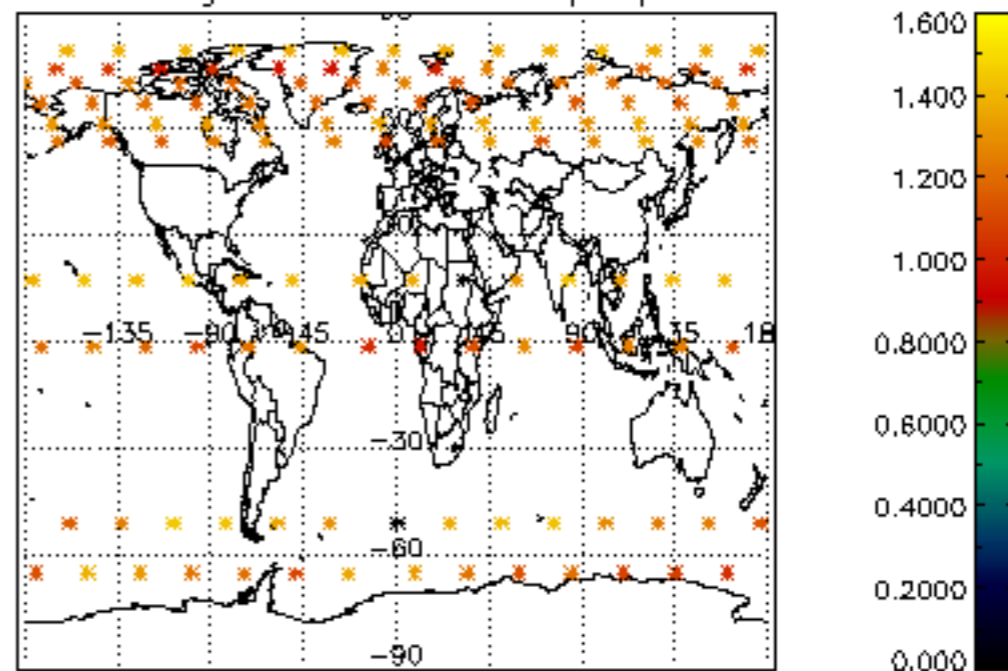




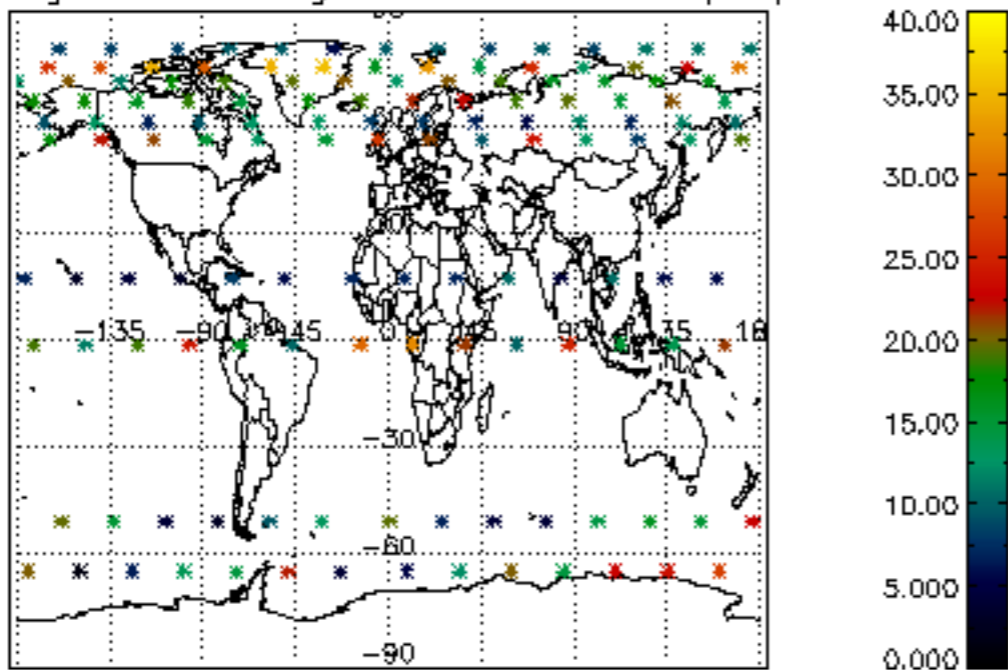
Percentage of cosmic ray hits per profile



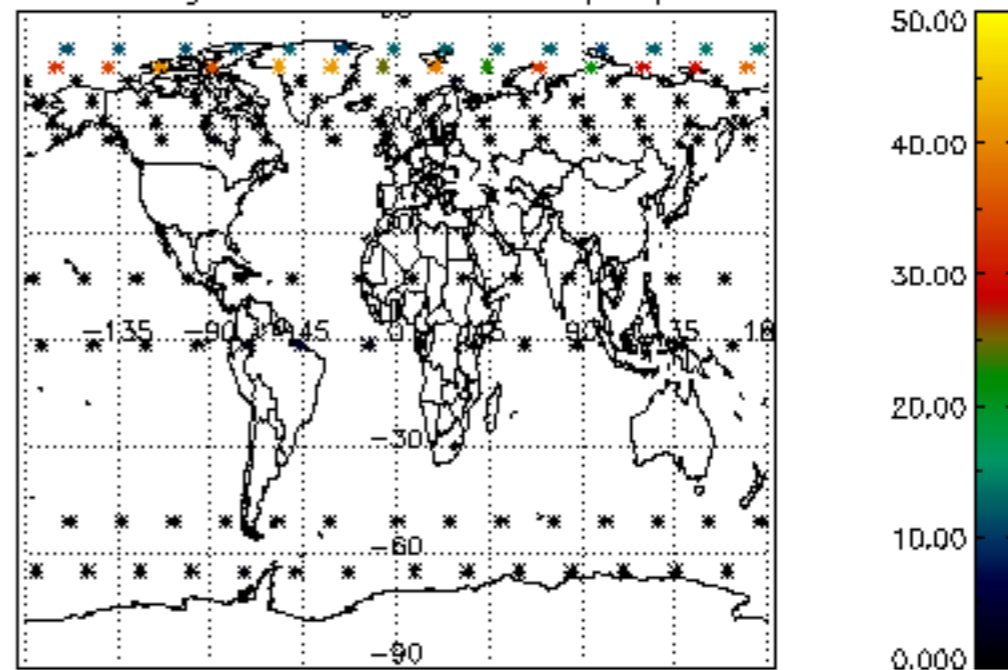
Percentage of datation errors per profile



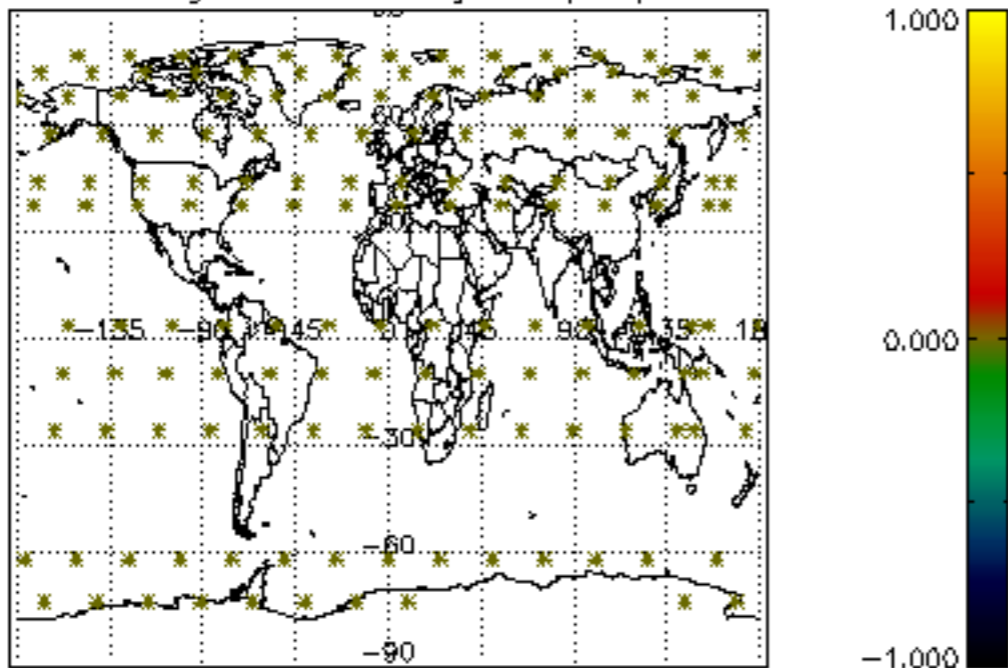
Percentage of star falling outside central band per profile



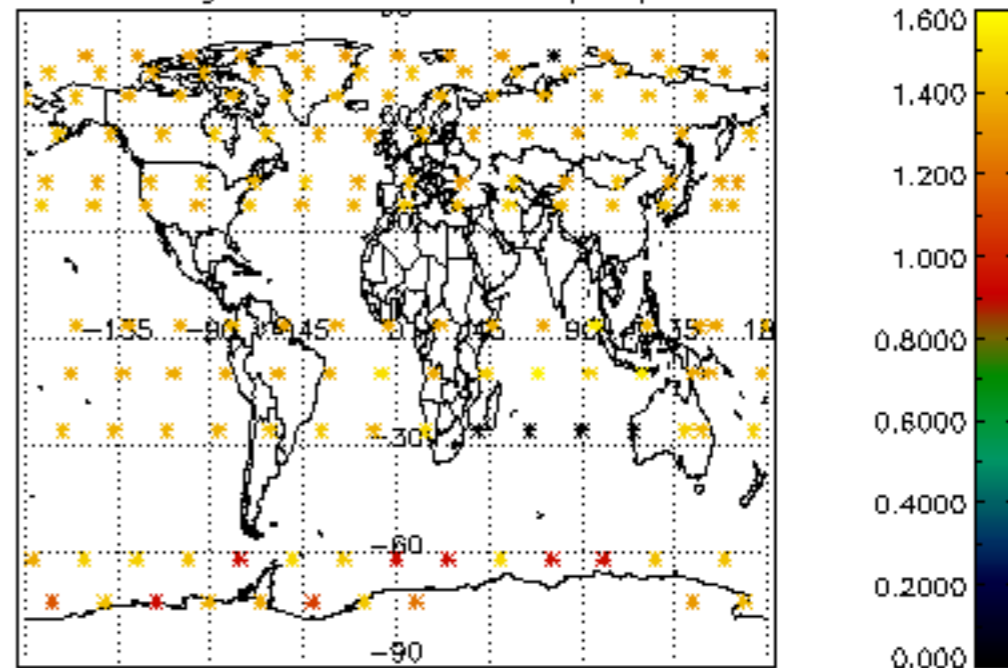
Percentage of saturation errors per profile



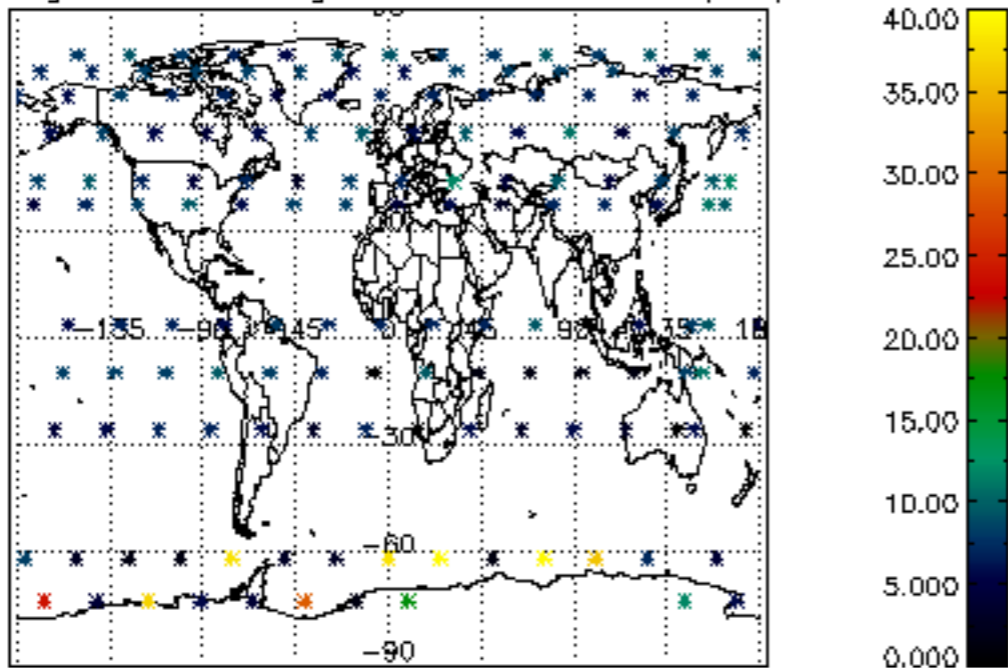
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

