

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	25APR2013 16:29:22
Data source version	GOMOS/6.01
Start time of products	21-06-2008 (21JUN2008 00:00:00)
Stop time of products	22-06-2008 (22JUN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	309
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

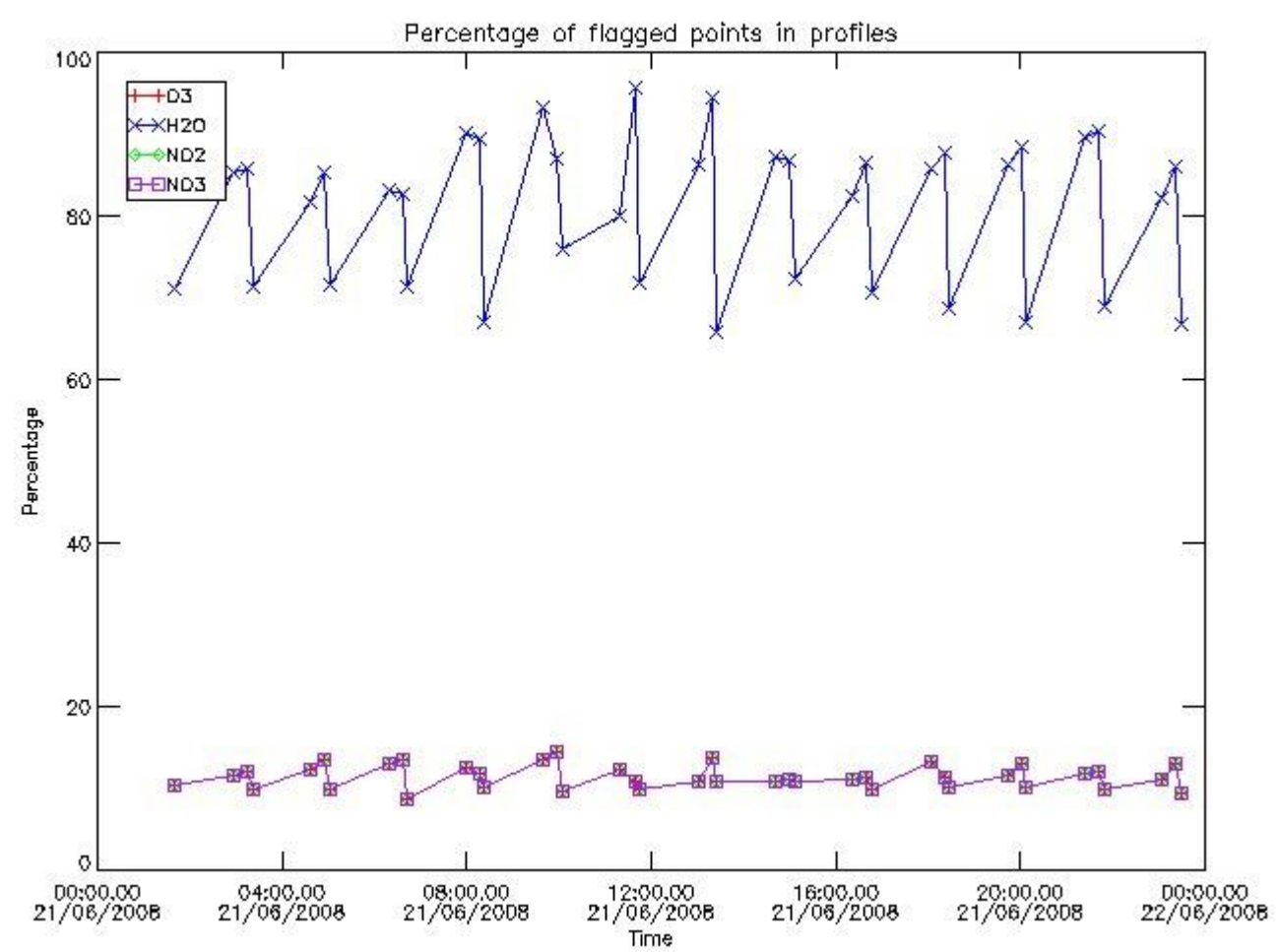
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20080621_014056_000000492069_00361_32980_0406.N1	21-JUN-2008 01:40:56	Dark	49.000	63	Bet Gru	2.1500	2800.0	98	32980	No
2	GOM_NL__2PRFIN20080621_014618_000000412069_00361_32980_0407.N1	21-JUN-2008 01:46:18	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	32980	No
3	GOM_NL__2PRFIN20080621_015217_000000392069_00361_32980_0408.N1	21-JUN-2008 01:52:17	Straylight	38.500	147	Alp Ara	2.8770	26000.	77	32980	No
4	GOM_NL__2PRFIN20080621_015403_000000412069_00361_32980_0409.N1	21-JUN-2008 01:54:03	Twilight	40.500	40	The Sco	1.8590	7100.0	81	32980	No
5	GOM_NL__2PRFIN20080621_015545_000000432069_00361_32980_0410.N1	21-JUN-2008 01:55:45	Twilight	42.500	25	35Lam Sco	1.6200	28000.	85	32980	No
6	GOM_NL__2PRFIN20080621_015705_000000592069_00361_32980_0411.N1	21-JUN-2008 01:57:05	Bright	59.000	116	19Del Sgr	2.7000	4100.0	118	32980	No
7	GOM_NL__2PRFIN20080621_020209_000000382069_00361_32980_0412.N1	21-JUN-2008 02:02:09	Bright	38.000	86	35Eta Oph	2.4300	10200.	76	32980	No
8	GOM_NL__2PRFIN20080621_020352_000000362069_00361_32980_0413.N1	21-JUN-2008 02:03:52	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	32980	No
9	GOM_NL__2PRFIN20080621_020818_000000412069_00361_32980_0414.N1	21-JUN-2008 02:08:18	Bright	40.500	126	60Bet Oph	2.7700	4250.0	81	32980	No
10	GOM_NL__2PRFIN20080621_021044_000000402069_00361_32980_0415.N1	21-JUN-2008 02:10:44	Bright	40.000	59	55Alp Oph	2.0800	8900.0	80	32980	No
11	GOM_NL__2PRFIN20080621_021259_000000352069_00361_32980_0416.N1	21-JUN-2008 02:12:59	Bright	34.500	127	27Bet Her	2.7810	4700.0	69	32980	No
12	GOM_NL__2PRFIN20080621_021554_000000362069_00361_32980_0417.N1	21-JUN-2008 02:15:54	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	32980	No
13	GOM_NL__2PRFIN20080621_022226_000000362069_00361_32980_0418.N1	21-JUN-2008 02:22:26	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	32980	No
14	GOM_NL__2PRFIN20080621_022419_000000372069_00361_32980_0419.N1	21-JUN-2008 02:24:19	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	32980	No
15	GOM_NL__2PRFIN20080621_022801_000000342069_00361_32980_0420.N1	21-JUN-2008 02:28:01	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	32980	No
16	GOM_NL__2PRFIN20080621_023231_000000352069_00361_32980_0421.N1	21-JUN-2008 02:32:31	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	32980	No
17	GOM_NL__2PRFIN20080621_023943_000000402069_00361_32980_0422.N1	21-JUN-2008 02:39:43	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	32980	No
18	GOM_NL__2PRFIN20080621_024250_000000402069_00361_32980_0423.N1	21-JUN-2008 02:42:50	Bright	40.000	160	23Gam Per	2.9300	4700.0	80	32980	No
19	GOM_NL__2PRFIN20080621_024616_000000432069_00361_32980_0424.N1	21-JUN-2008 02:46:16	Bright	42.500	73	57Gam1And	2.2600	13100.	85	32980	No
20	GOM_NL__2PRFIN20080621_024839_000000452069_00361_32980_0425.N1	21-JUN-2008 02:48:39	Bright	44.500	173	4Bet Tri	3.0040	8900.0	89	32980	No
21	GOM_NL__2PRFIN20080621_025225_000000522069_00361_32980_0426.N1	21-JUN-2008 02:52:25	Twilight	52.000	50	13Alp Ari	2.0070	4250.0	104	32980	No
22	GOM_NL__2PRFIN20080621_025713_000000452069_00361_32980_0427.N1	21-JUN-2008 02:57:13	Dark	44.500	94	92Alp Cet	2.5260	3100.0	89	32980	No
23	GOM_NL__2PRFIN20080621_031516_000000432069_00361_32980_0428.N1	21-JUN-2008 03:15:16	Dark	42.500	9	Alp Eri	0.45300	24000.	85	32980	No
24	GOM_NL__2PRFIN20080621_032133_000000512069_00362_32981_0445.N1	21-JUN-2008 03:21:33	Dark	51.000	63	Bet Gru	2.1500	2800.0	102	32981	No
25	GOM_NL__2PRFIN20080621_032654_000000432069_00362_32981_0446.N1	21-JUN-2008 03:26:54	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	32981	No
26	GOM_NL__2PRFIN20080621_033254_000000372069_00362_32981_0447.N1	21-JUN-2008 03:32:54	Straylight	37.000	147	Alp Ara	2.8770	26000.	74	32981	No
27	GOM_NL__2PRFIN20080621_033440_000000402069_00362_32981_0448.N1	21-JUN-2008 03:34:40	Twilight	39.500	40	The Sco	1.8590	7100.0	79	32981	No
28	GOM_NL__2PRFIN20080621_033621_000000392069_00362_32981_0449.N1	21-JUN-2008 03:36:21	Twilight	39.000	25	35Lam Sco	1.6200	28000.	78	32981	No
29	GOM_NL__2PRFIN20080621_033741_000000482069_00362_32981_0450.N1	21-JUN-2008 03:37:41	Twilight	47.500	116	19Del Sgr	2.7000	4100.0	95	32981	No
30	GOM_NL__2PRFIN20080621_034245_000000382069_00362_32981_0451.N1	21-JUN-2008 03:42:45	Bright	37.500	86	35Eta Oph	2.4300	10200.	75	32981	No
31	GOM_NL__2PRFIN20080621_034429_000000362069_00362_32981_0452.N1	21-JUN-2008 03:44:29	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	32981	No
32	GOM_NL__2PRFIN20080621_034854_000000412069_00362_32981_0453.N1	21-JUN-2008 03:48:54	Bright	40.500	126	60Bet Oph	2.7700	4250.0	81	32981	No
33	GOM_NL__2PRFIN20080621_035120_000000392069_00362_32981_0454.N1	21-JUN-2008 03:51:20	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	32981	No
34	GOM_NL__2PRFIN20080621_035335_000000372069_00362_32981_0455.N1	21-JUN-2008 03:53:35	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	32981	No
35	GOM_NL__2PRFIN20080621_035630_000000372069_00362_32981_0456.N1	21-JUN-2008 03:56:30	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	32981	No
36	GOM_NL__2PRFIN20080621_040302_000000382069_00362_32981_0457.N1	21-JUN-2008 04:03:02	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	32981	No
37	GOM_NL__2PRFIN20080621_040455_000000372069_00362_32981_0458.N1	21-JUN-2008 04:04:55	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	32981	No
38	GOM_NL__2PRFIN20080621_040837_000000332069_00362_32981_0459.N1	21-JUN-2008 04:08:37	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	32981	No
39	GOM_NL__2PRFIN20080621_041307_000000352069_00362_32981_0460.N1	21-JUN-2008 04:13:07	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	32981	No
40	GOM_NL__2PRFIN20080621_042019_000000612069_00362_32981_0461.N1	21-JUN-2008 04:20:19	Bright	61.000	76	27Gam Cas	2.3000	30000.	122	32981	No
41	GOM_NL__2PRFIN20080621_042326_000000362069_00362_32981_0462.N1	21-JUN-2008 04:23:26	Bright	36.000	160	23Gam Per	2.9300	4700.0	72	32981	No
42	GOM_NL__2PRFIN20080621_042652_000000422069_00362_32981_0463.N1	21-JUN-2008 04:26:52	Bright	42.000	73	57Gam1And	2.2600	13100.	84	32981	No

279	GOM_NL__2PRFIN20080621_215932_000000372069_00373_32992_0716.N1	21-JUN-2008 21:59:32	Straylight	37.000	147	Alp Ara	2.8770	26000.	74	32992	No
280	GOM_NL__2PRFIN20080621_220118_000000432069_00373_32992_0717.N1	21-JUN-2008 22:01:18	Twilight	42.500	40	The Sco	1.8590	7100.0	85	32992	No
281	GOM_NL__2PRFIN20080621_220259_000000412069_00373_32992_0718.N1	21-JUN-2008 22:02:59	Twilight	41.000	25	35Lam Sco	1.6200	28000.	82	32992	No
282	GOM_NL__2PRFIN20080621_220420_000000532069_00373_32992_0719.N1	21-JUN-2008 22:04:20	Bright	53.000	116	19Del Sgr	2.7000	4100.0	106	32992	No
283	GOM_NL__2PRFIN20080621_220922_000000392069_00373_32992_0720.N1	21-JUN-2008 22:09:22	Bright	38.500	86	35Eta Oph	2.4300	10200.	77	32992	No
284	GOM_NL__2PRFIN20080621_221106_000000362069_00373_32992_0721.N1	21-JUN-2008 22:11:06	Bright	35.500	98	13Zet Oph	2.5710	30000.	71	32992	No
285	GOM_NL__2PRFIN20080621_221528_000000592069_00373_32992_0722.N1	21-JUN-2008 22:15:28	Bright	59.000	126	60Bet Oph	2.7700	4250.0	118	32992	No
286	GOM_NL__2PRFIN20080621_221753_000000392069_00373_32992_0723.N1	21-JUN-2008 22:17:53	Bright	38.500	59	55Alp Oph	2.0800	8900.0	77	32992	No
287	GOM_NL__2PRFIN20080621_222011_000000372069_00373_32992_0724.N1	21-JUN-2008 22:20:11	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	32992	No
288	GOM_NL__2PRFIN20080621_222304_000000352069_00373_32992_0725.N1	21-JUN-2008 22:23:04	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	32992	No
289	GOM_NL__2PRFIN20080621_222934_000000392069_00373_32992_0726.N1	21-JUN-2008 22:29:34	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	32992	No
290	GOM_NL__2PRFIN20080621_223130_000000372069_00373_32992_0727.N1	21-JUN-2008 22:31:30	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	32992	No
291	GOM_NL__2PRFIN20080621_223513_000000382069_00373_32992_0728.N1	21-JUN-2008 22:35:13	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	32992	No
292	GOM_NL__2PRFIN20080621_223943_000000322069_00373_32992_0729.N1	21-JUN-2008 22:39:43	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	32992	No
293	GOM_NL__2PRFIN20080621_224651_000000612069_00373_32992_0730.N1	21-JUN-2008 22:46:51	Bright	61.000	76	27Gam Cas	2.3000	30000.	122	32992	No
294	GOM_NL__2PRFIN20080621_225002_000000542069_00373_32992_0731.N1	21-JUN-2008 22:50:02	Bright	54.000	160	23Gam Per	2.9300	4700.0	108	32992	No
295	GOM_NL__2PRFIN20080621_225327_000000432069_00373_32992_0732.N1	21-JUN-2008 22:53:27	Bright	43.000	73	57Gam1And	2.2600	13100.	86	32992	No
296	GOM_NL__2PRFIN20080621_225551_000000442069_00373_32992_0733.N1	21-JUN-2008 22:55:51	Twilight	44.000	173	4Bet Tri	3.0040	8900.0	88	32992	No
297	GOM_NL__2PRFIN20080621_225939_000000552069_00373_32992_0734.N1	21-JUN-2008 22:59:39	Twilight	55.000	50	13Alp Ari	2.0070	4250.0	110	32992	No
298	GOM_NL__2PRFIN20080621_230428_000000452069_00373_32992_0735.N1	21-JUN-2008 23:04:28	Dark	45.000	94	92Alp Cet	2.5260	3100.0	90	32992	No
299	GOM_NL__2PRFIN20080621_232232_000000402069_00373_32992_0736.N1	21-JUN-2008 23:22:32	Dark	39.500	9	Alp Eri	0.45300	24000.	79	32992	No
300	GOM_NL__2PRFIN20080621_232856_000000552069_00374_32993_0737.N1	21-JUN-2008 23:28:56	Dark	54.500	63	Bet Gru	2.1500	2800.0	109	32993	No
301	GOM_NL__2PRFIN20080621_233412_000000412069_00374_32993_0738.N1	21-JUN-2008 23:34:12	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	32993	No
302	GOM_NL__2PRFIN20080621_234008_000000382069_00374_32993_0739.N1	21-JUN-2008 23:40:08	Straylight	38.000	147	Alp Ara	2.8770	26000.	76	32993	No
303	GOM_NL__2PRFIN20080621_234154_000000422069_00374_32993_0740.N1	21-JUN-2008 23:41:54	Twilight	42.000	40	The Sco	1.8590	7100.0	84	32993	No
304	GOM_NL__2PRFIN20080621_234335_000000432069_00374_32993_0741.N1	21-JUN-2008 23:43:35	Twilight	42.500	25	35Lam Sco	1.6200	28000.	85	32993	No
305	GOM_NL__2PRFIN20080621_234456_000000592069_00374_32993_0742.N1	21-JUN-2008 23:44:56	Bright	59.000	116	19Del Sgr	2.7000	4100.0	118	32993	No
306	GOM_NL__2PRFIN20080621_234958_000000382069_00374_32993_0743.N1	21-JUN-2008 23:49:58	Bright	37.500	86	35Eta Oph	2.4300	10200.	75	32993	No
307	GOM_NL__2PRFIN20080621_235141_000000372069_00374_32993_0744.N1	21-JUN-2008 23:51:41	Bright	36.500	98	13Zet Oph	2.5710	30000.	73	32993	No
308	GOM_NL__2PRFIN20080621_235603_000000402069_00374_32993_0745.N1	21-JUN-2008 23:56:03	Bright	39.500	126	60Bet Oph	2.7700	4250.0	79	32993	No
309	GOM_NL__2PRFIN20080621_235828_000000392069_00374_32993_0746.N1	21-JUN-2008 23:58:28	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	32993	No

3. Quality information per product

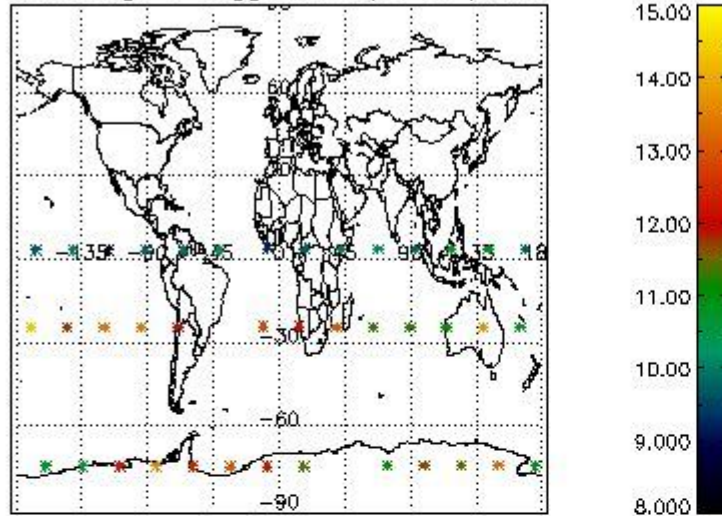
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

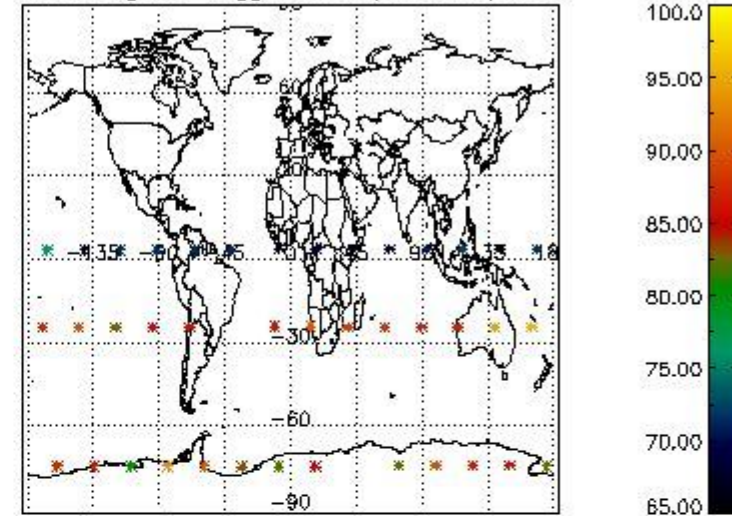


3.2 Plot quality information per product (world map)

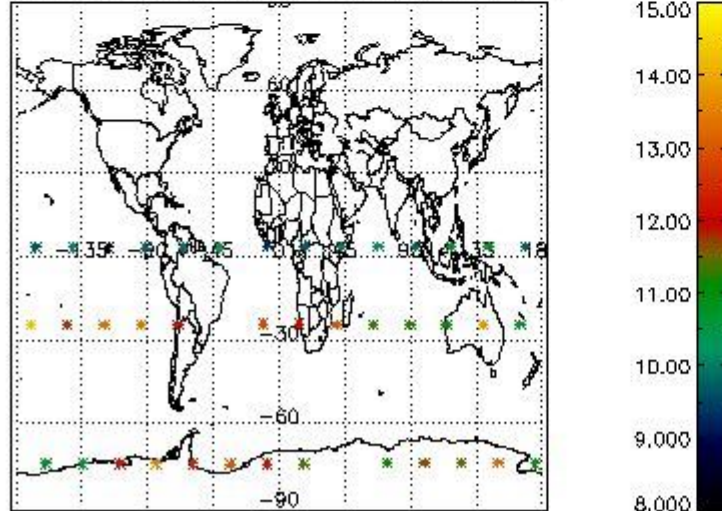
Percentage of flagged data per O3 profile



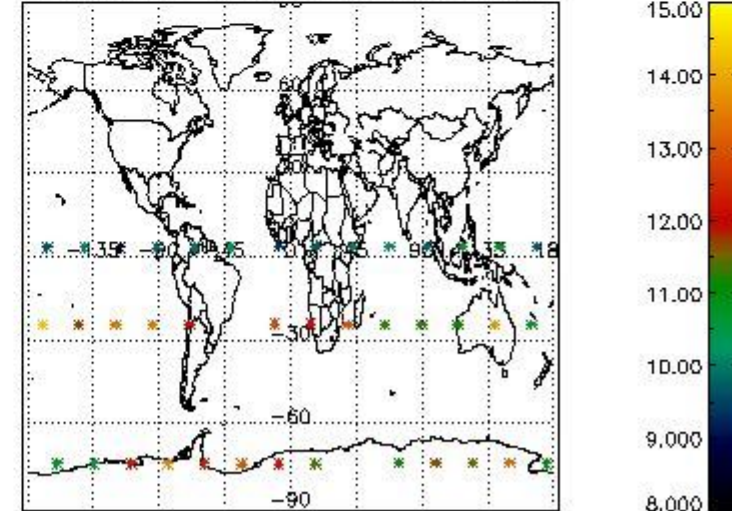
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

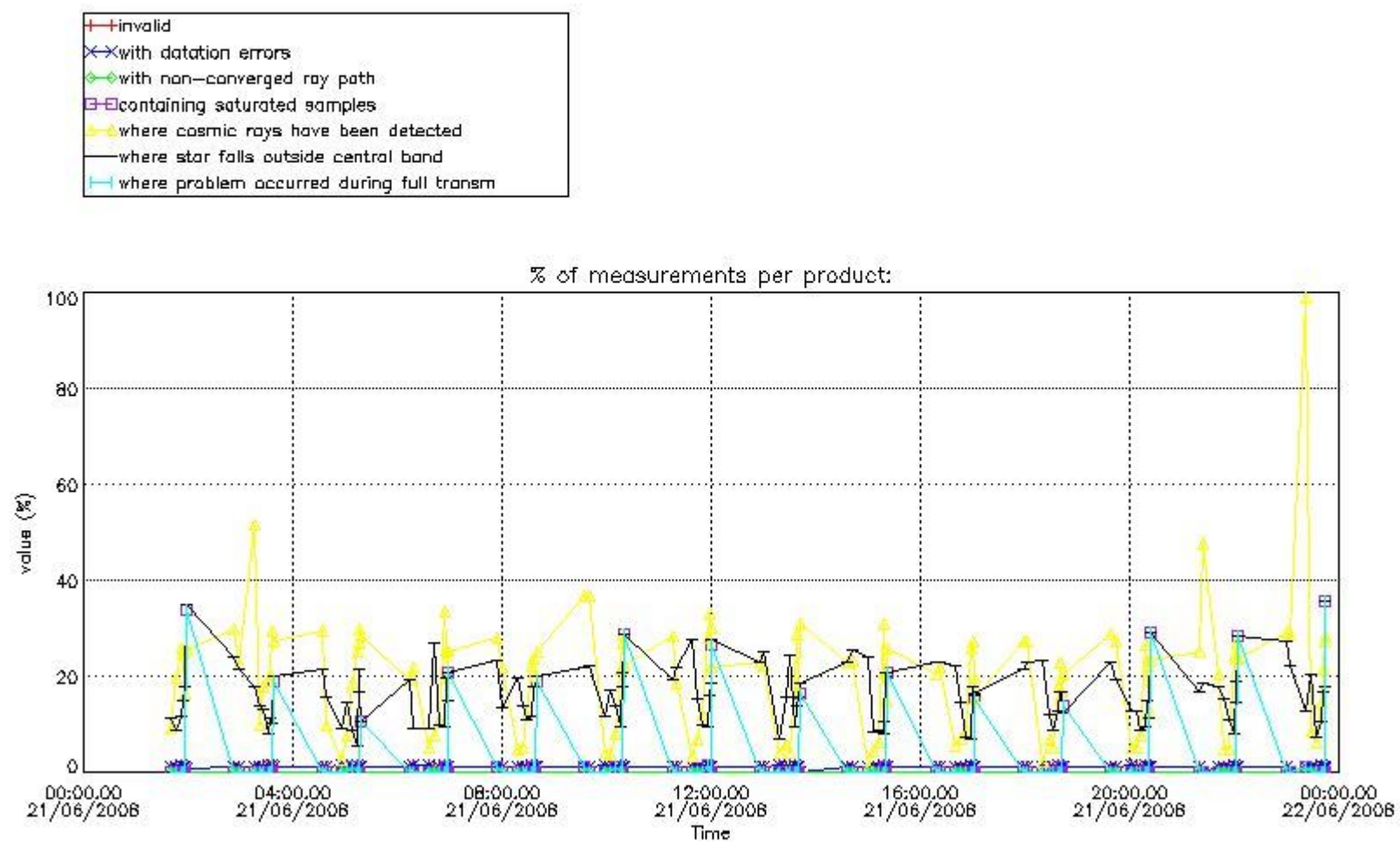


4. Level 1 quality information per product

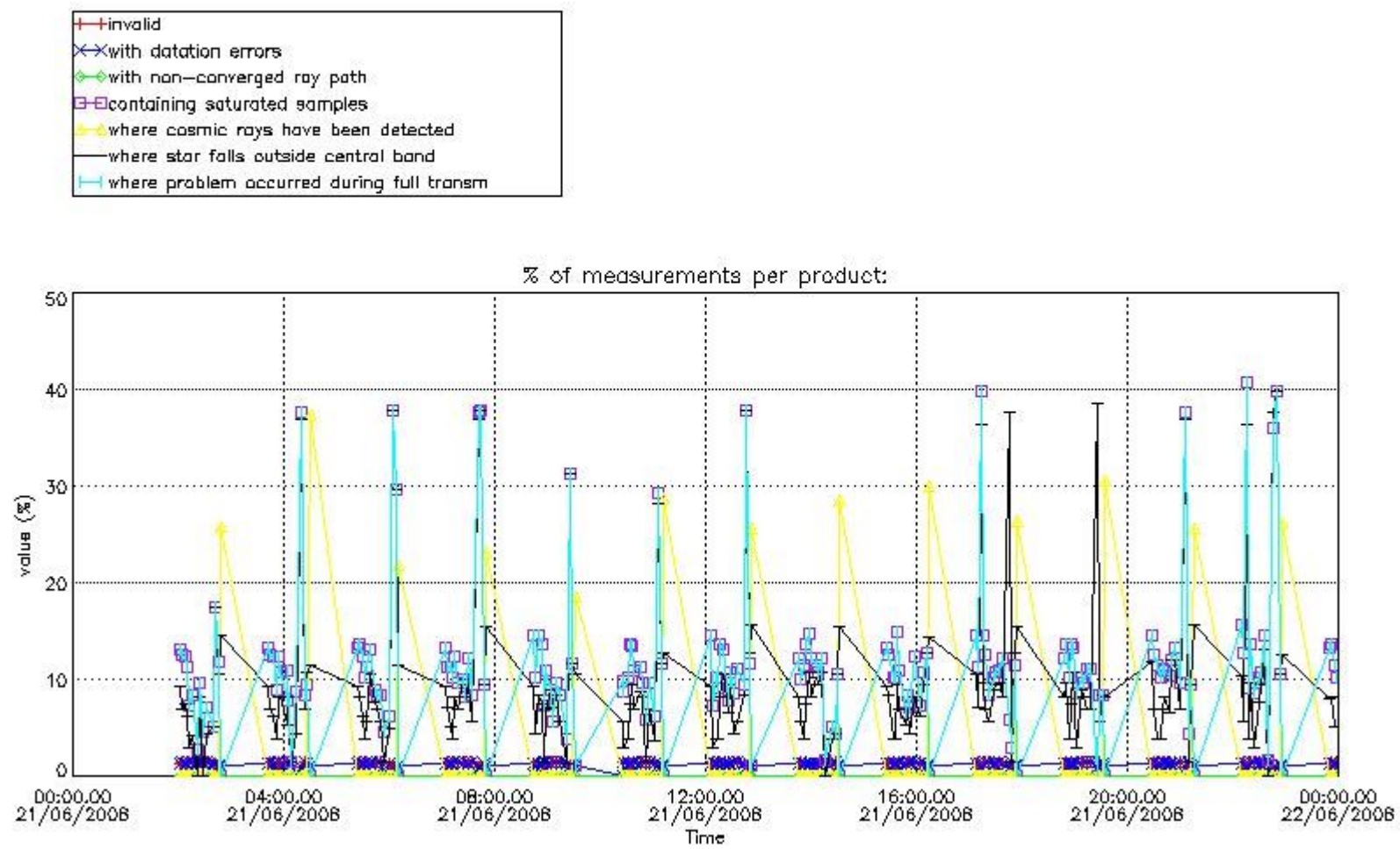
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



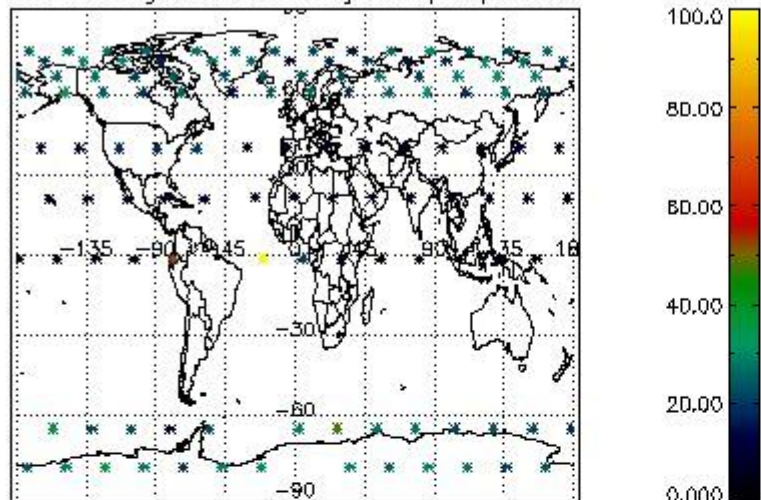
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



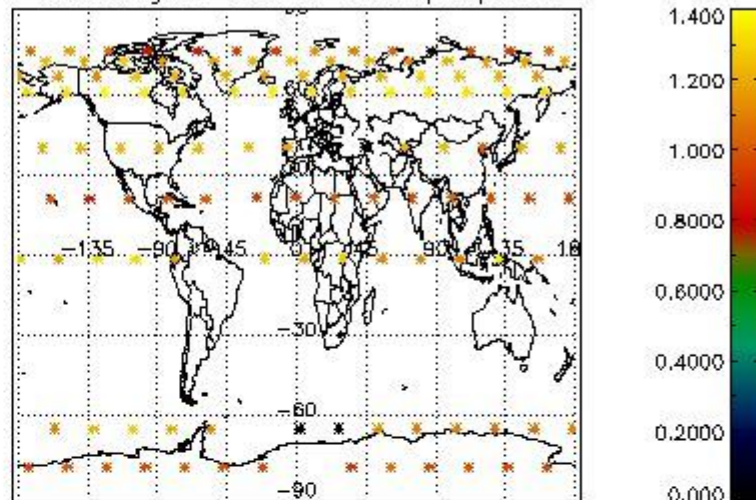
4.2 Plot quality information per product coming from level 1b processing (world map)

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

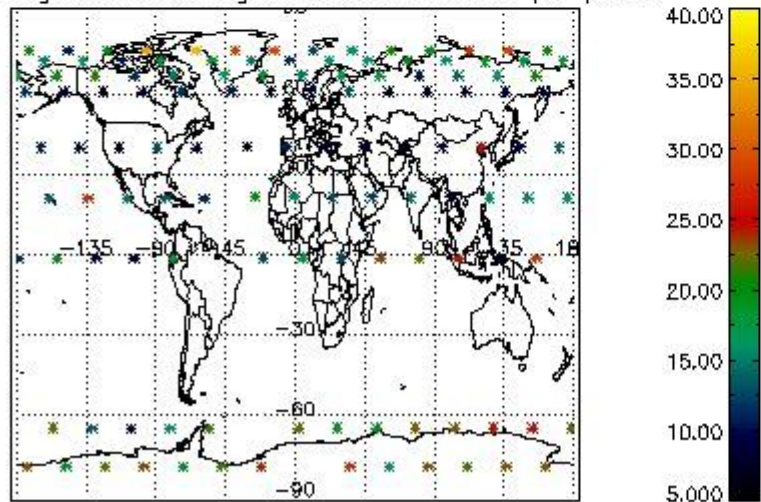
Percentage of cosmic ray hits per profile



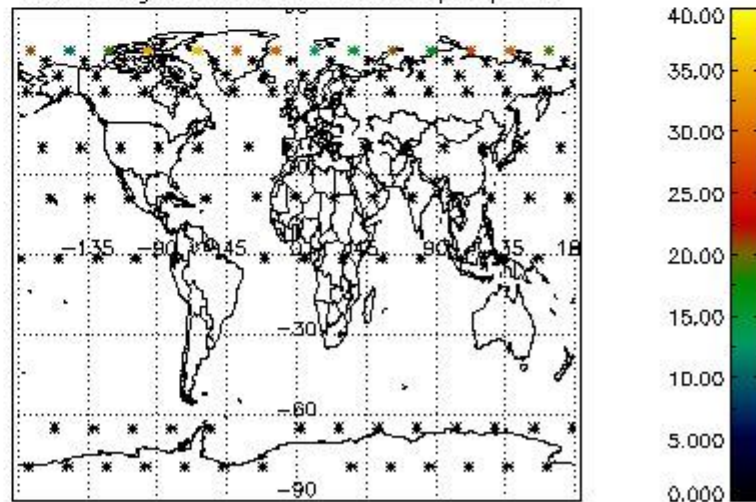
Percentage of datation errors per profile



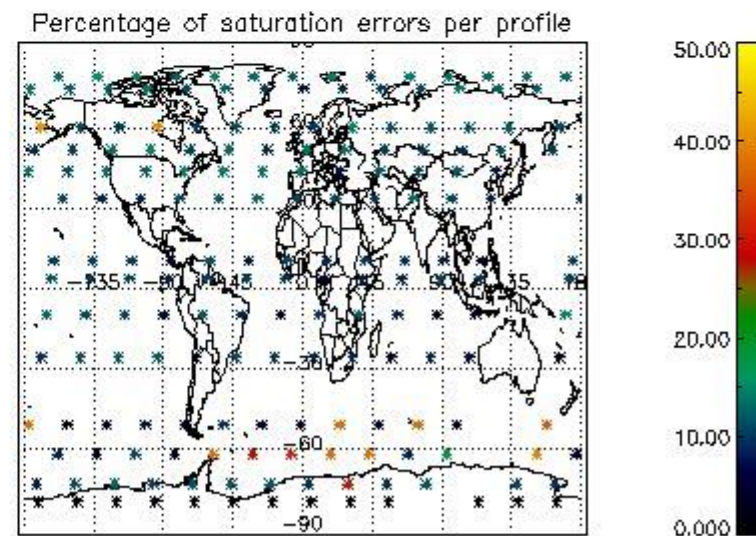
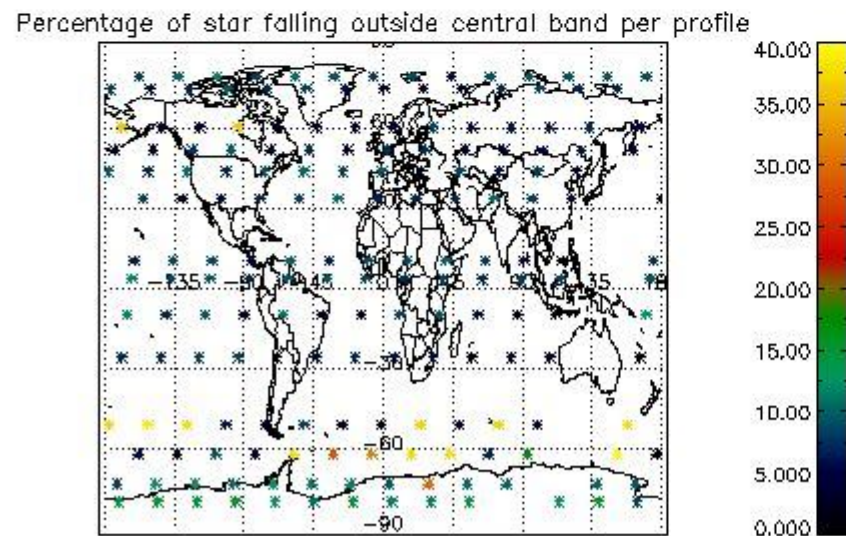
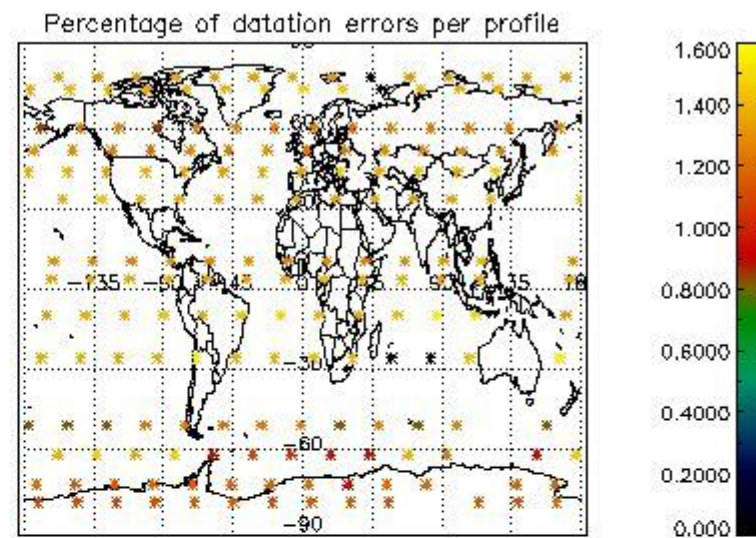
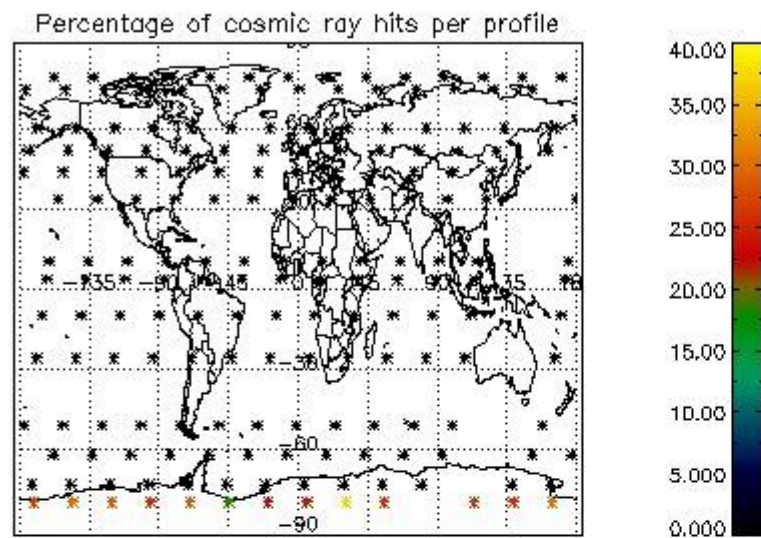
Percentage of star falling outside central band per profile



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

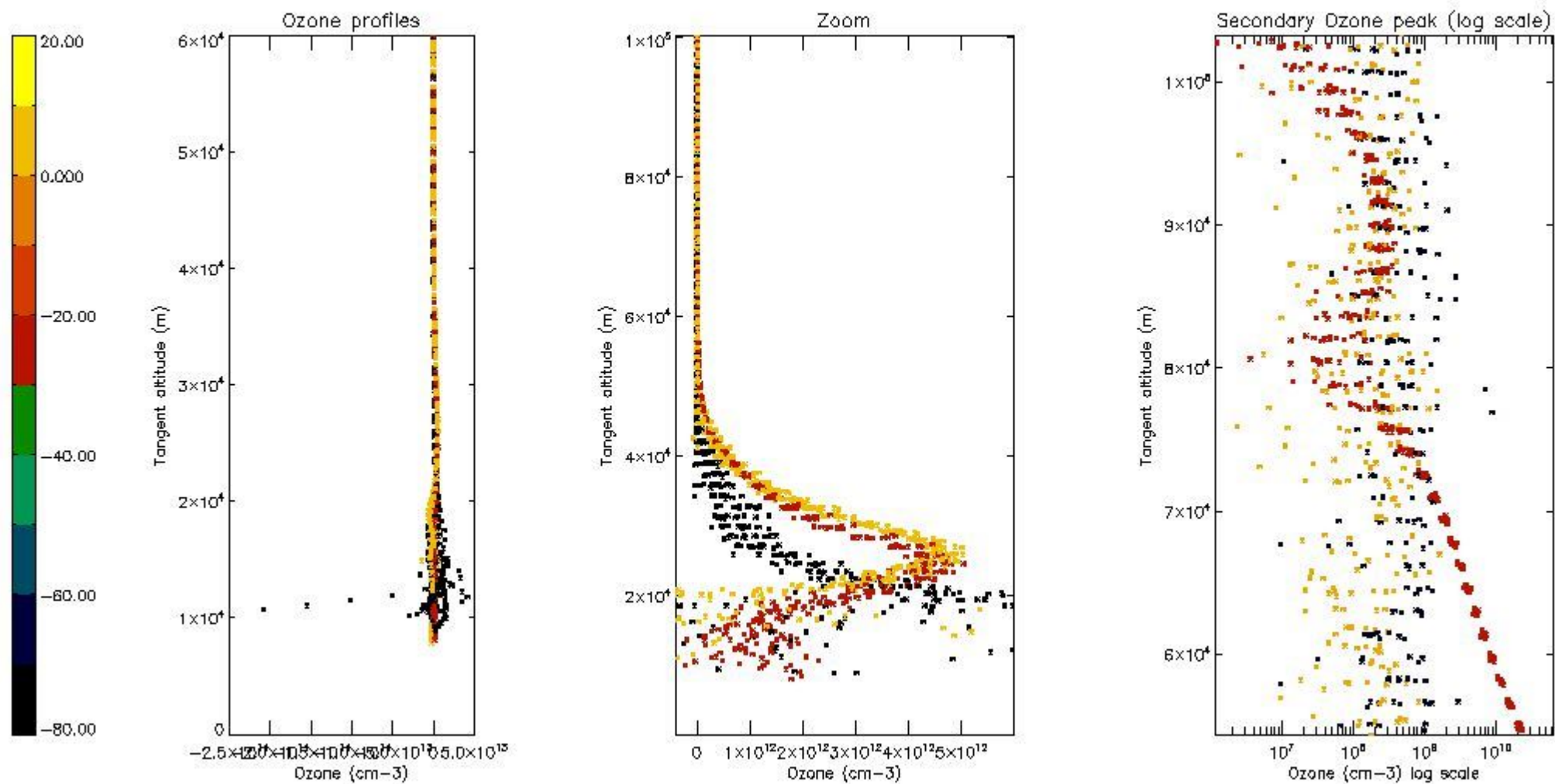
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	15
STD < 20	6

STD < 10	4
STD < 5	2

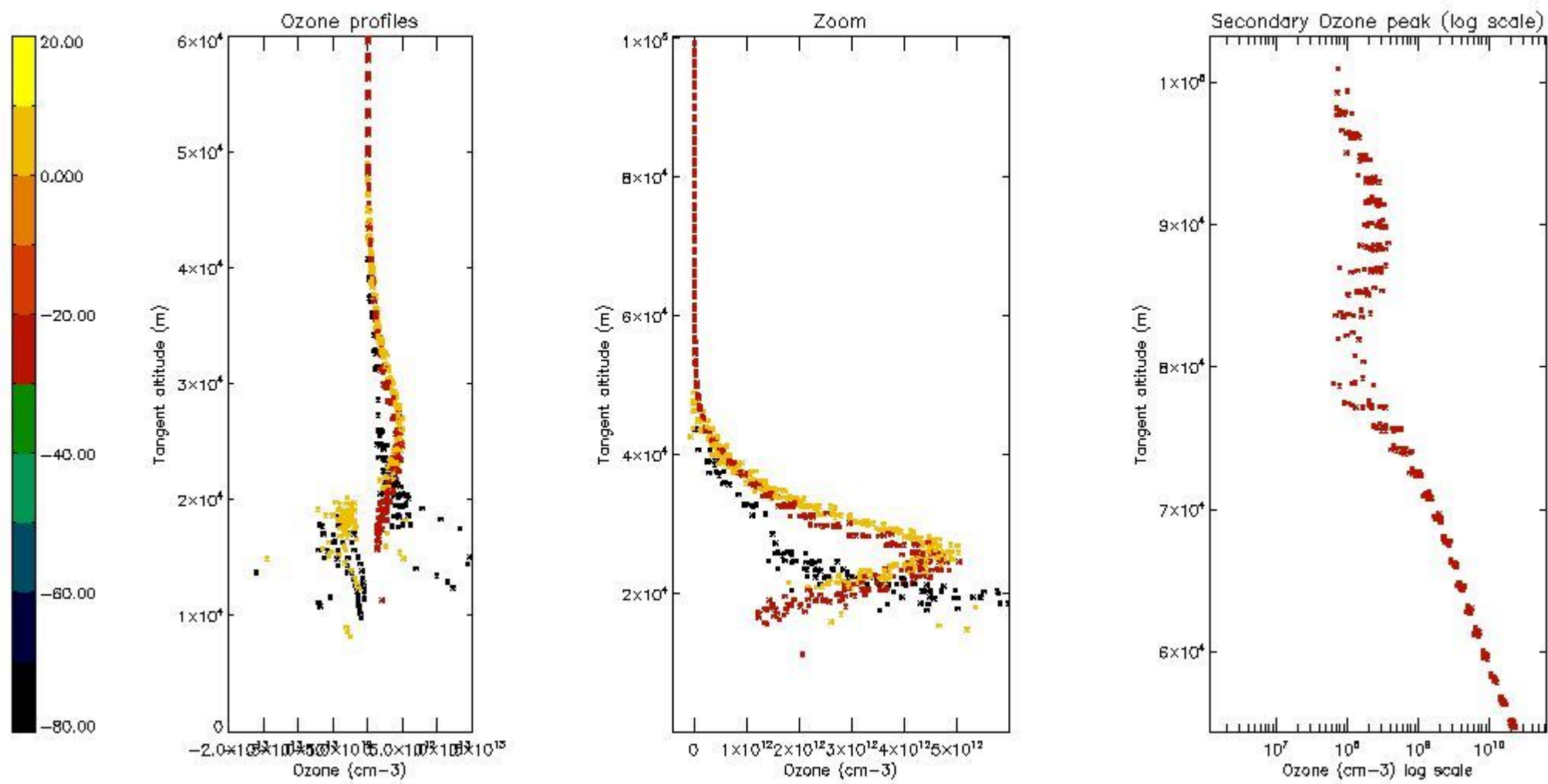
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



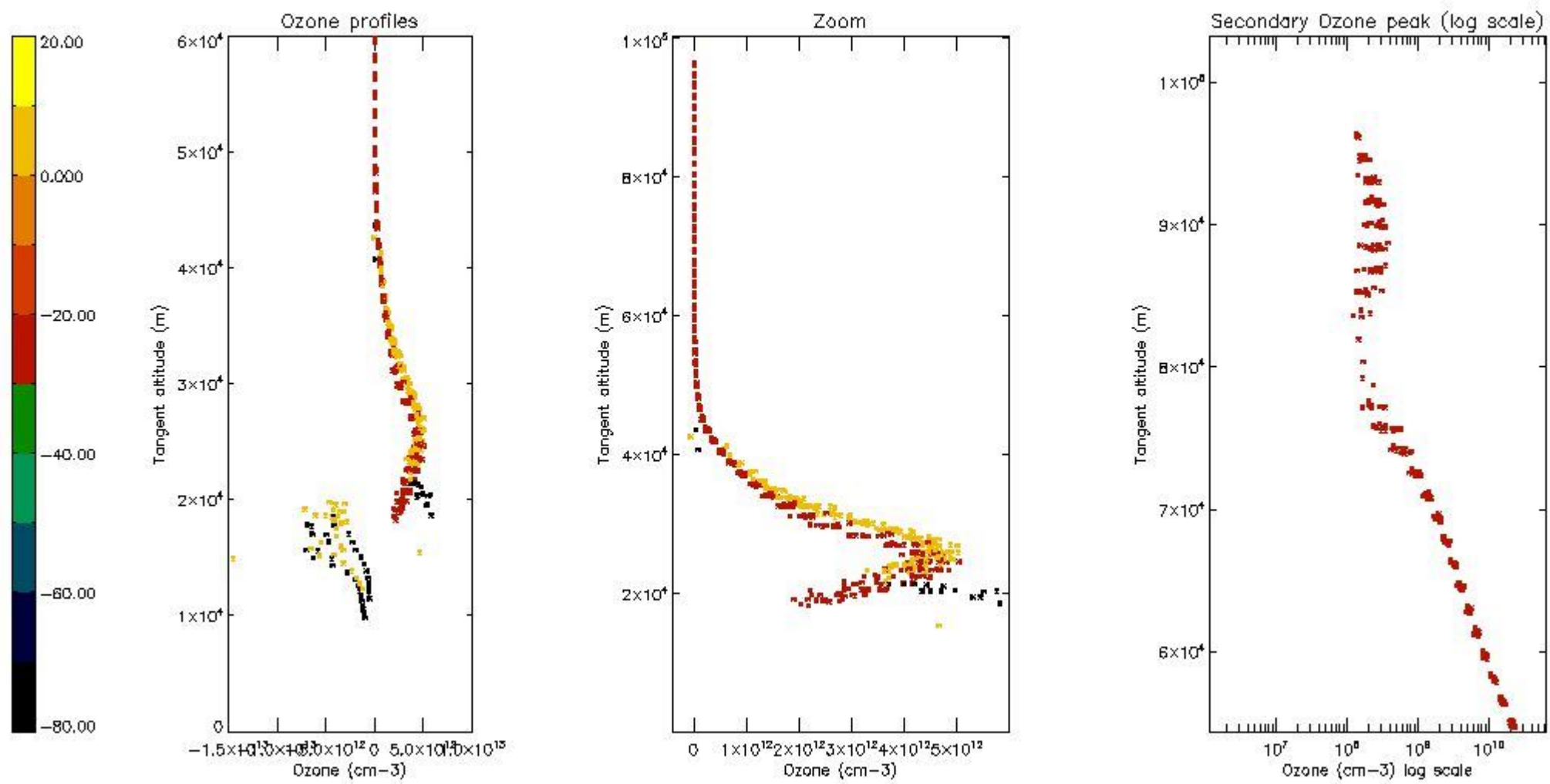
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



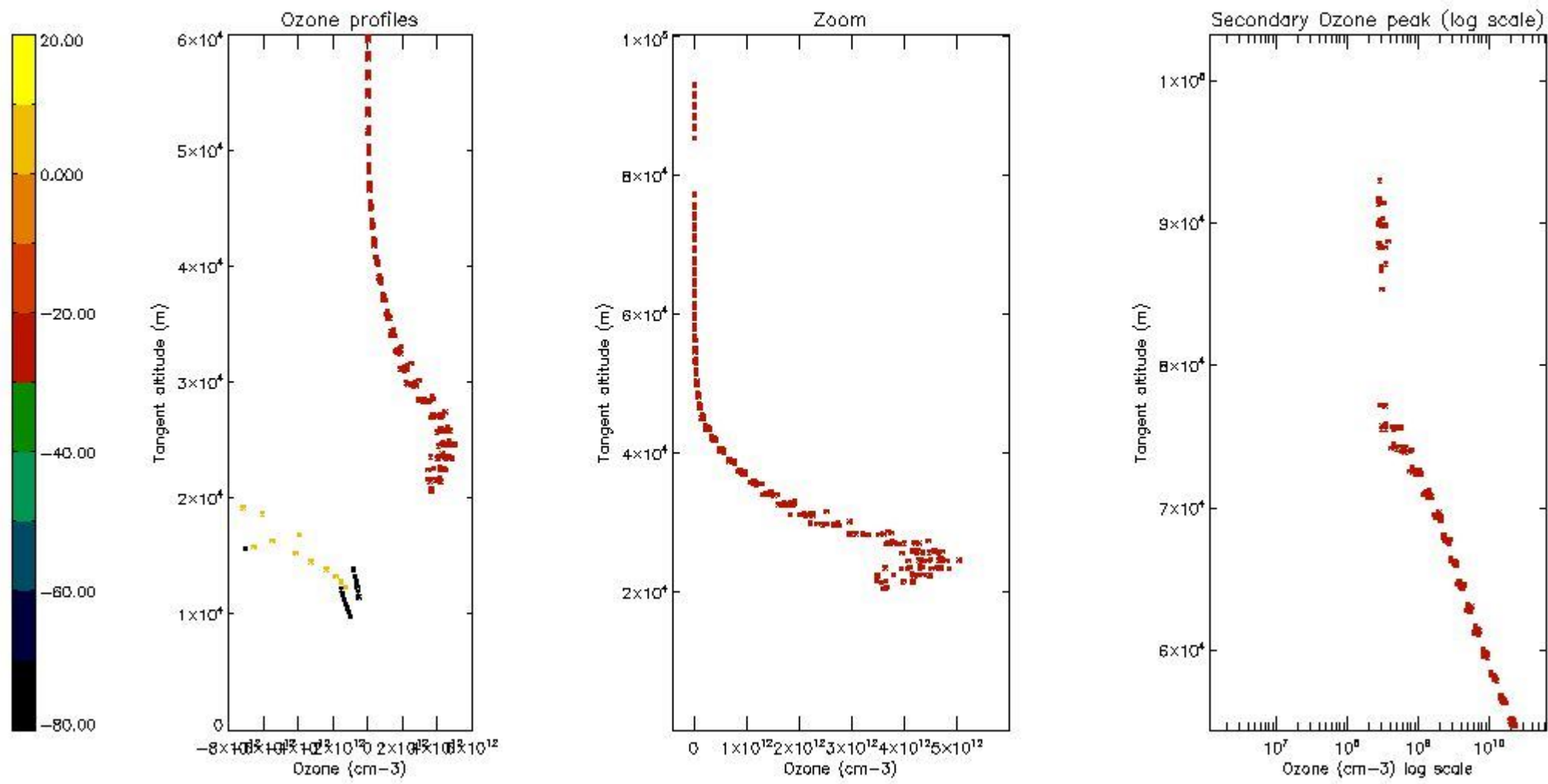
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



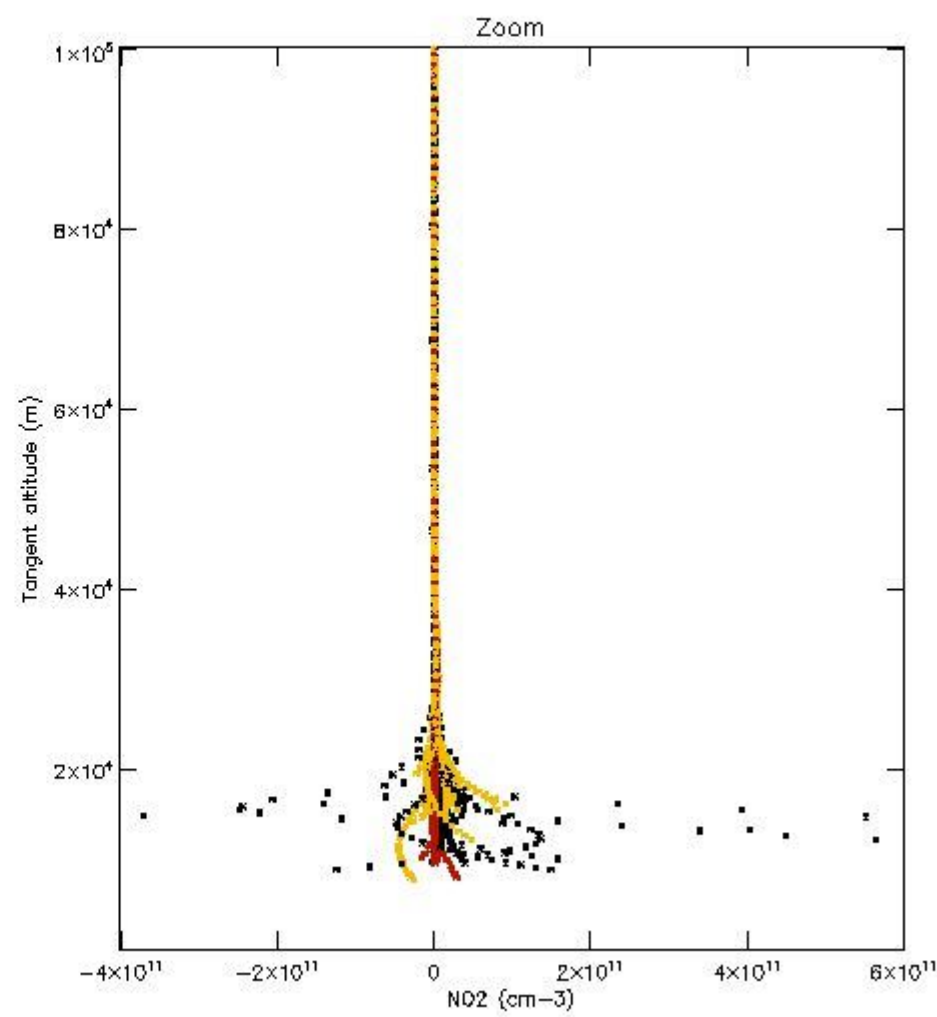
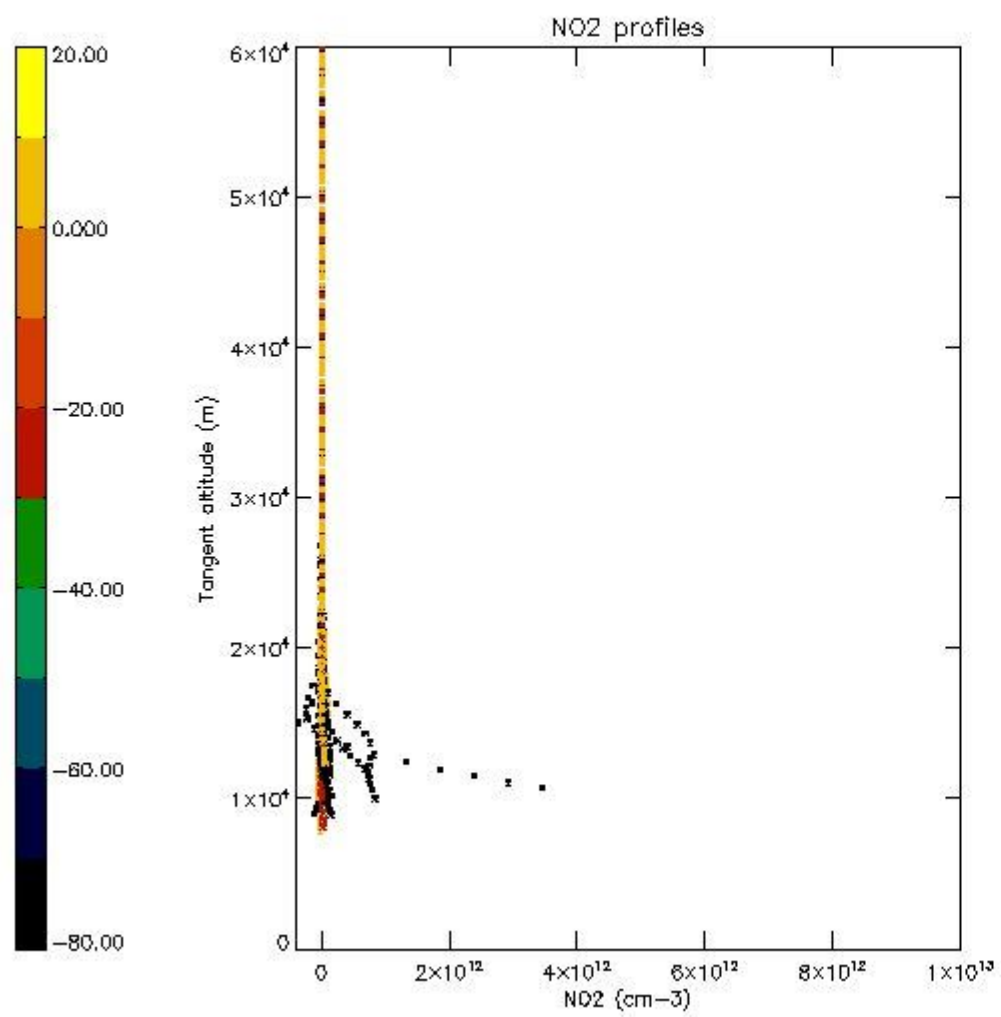
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



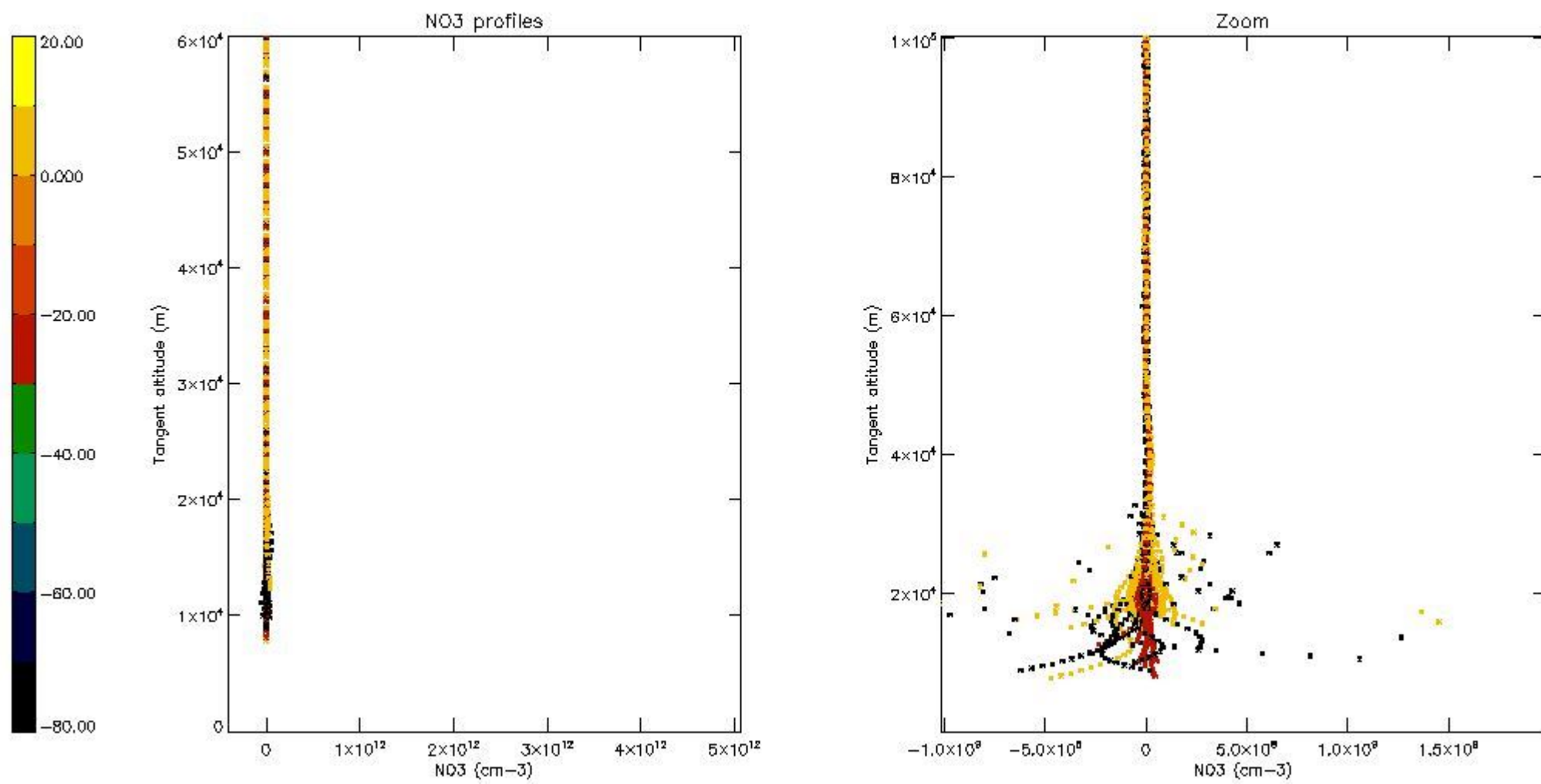
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



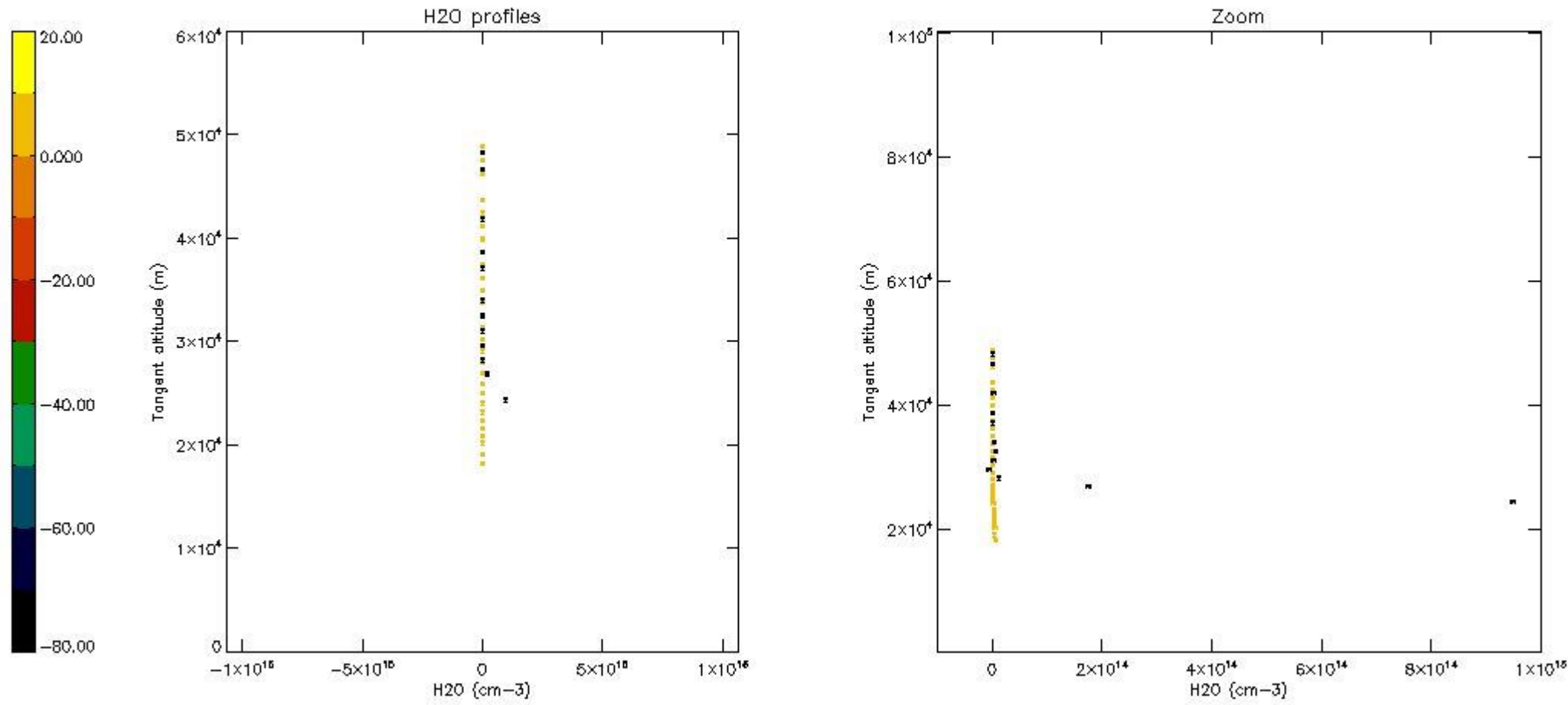
5.7 Plot NO3 profiles for all STD (dark without errors)

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	21-JUN-2008 01:40:56
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-JUN-2008 01:40:56
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-JUN-2008 01:40:56

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 \(time dependant\)](#)

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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	25APR2013 16:29:22
Data source version	GOMOS/6.01
Start time of products	21-06-2008 (21JUN2008 00:00:00)
Stop time of products	22-06-2008 (22JUN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	309
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

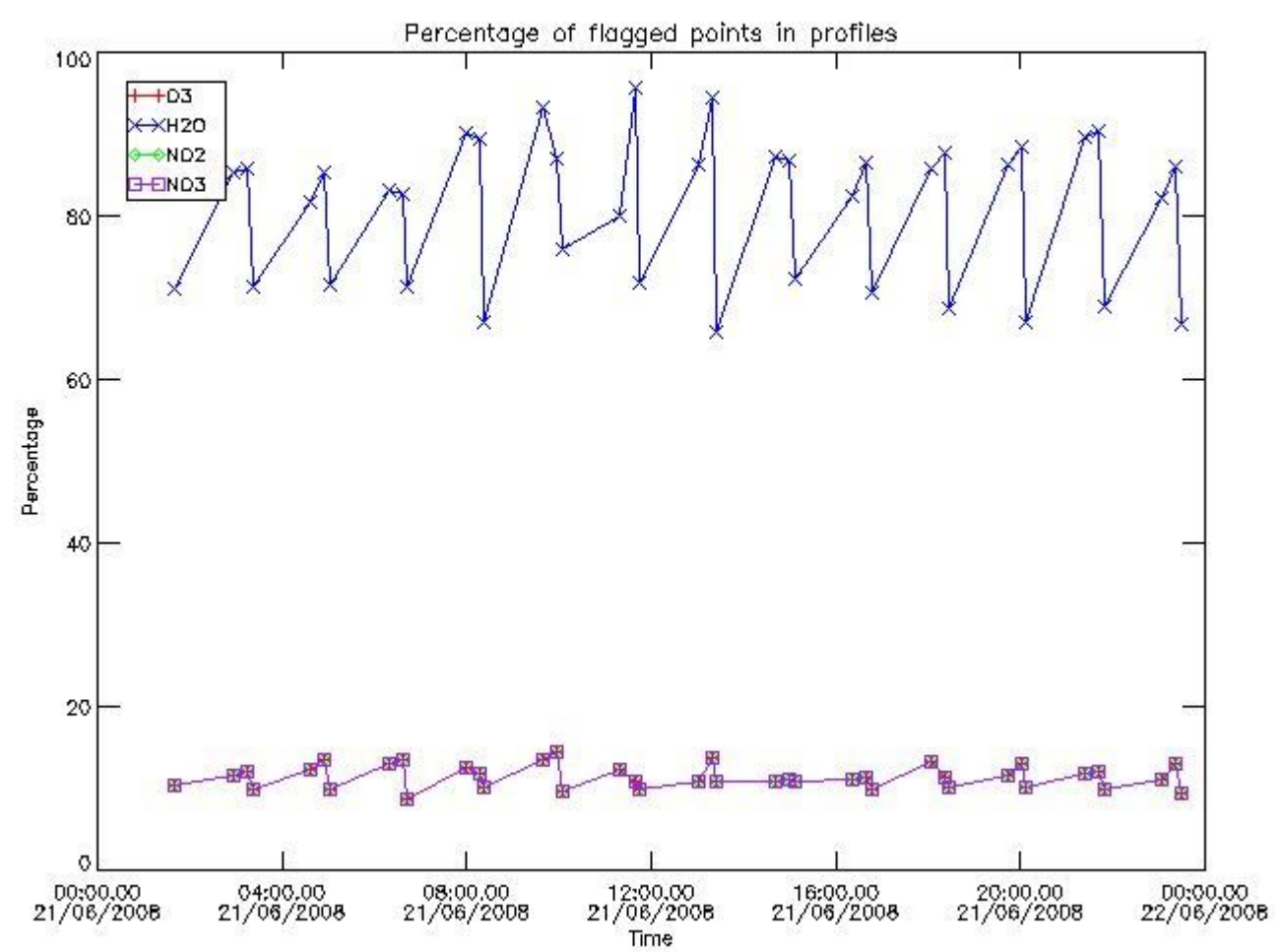
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20080621_014056_000000492069_00361_32980_0406.N1	21-JUN-2008 01:40:56	Dark	49.000	63	Bet Gru	2.1500	2800.0	98	32980	No
2	GOM_NL__2PRFIN20080621_014618_000000412069_00361_32980_0407.N1	21-JUN-2008 01:46:18	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	32980	No
3	GOM_NL__2PRFIN20080621_015217_000000392069_00361_32980_0408.N1	21-JUN-2008 01:52:17	Straylight	38.500	147	Alp Ara	2.8770	26000.	77	32980	No
4	GOM_NL__2PRFIN20080621_015403_000000412069_00361_32980_0409.N1	21-JUN-2008 01:54:03	Twilight	40.500	40	The Sco	1.8590	7100.0	81	32980	No
5	GOM_NL__2PRFIN20080621_015545_000000432069_00361_32980_0410.N1	21-JUN-2008 01:55:45	Twilight	42.500	25	35Lam Sco	1.6200	28000.	85	32980	No
6	GOM_NL__2PRFIN20080621_015705_000000592069_00361_32980_0411.N1	21-JUN-2008 01:57:05	Bright	59.000	116	19Del Sgr	2.7000	4100.0	118	32980	No
7	GOM_NL__2PRFIN20080621_020209_000000382069_00361_32980_0412.N1	21-JUN-2008 02:02:09	Bright	38.000	86	35Eta Oph	2.4300	10200.	76	32980	No
8	GOM_NL__2PRFIN20080621_020352_000000362069_00361_32980_0413.N1	21-JUN-2008 02:03:52	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	32980	No
9	GOM_NL__2PRFIN20080621_020818_000000412069_00361_32980_0414.N1	21-JUN-2008 02:08:18	Bright	40.500	126	60Bet Oph	2.7700	4250.0	81	32980	No
10	GOM_NL__2PRFIN20080621_021044_000000402069_00361_32980_0415.N1	21-JUN-2008 02:10:44	Bright	40.000	59	55Alp Oph	2.0800	8900.0	80	32980	No
11	GOM_NL__2PRFIN20080621_021259_000000352069_00361_32980_0416.N1	21-JUN-2008 02:12:59	Bright	34.500	127	27Bet Her	2.7810	4700.0	69	32980	No
12	GOM_NL__2PRFIN20080621_021554_000000362069_00361_32980_0417.N1	21-JUN-2008 02:15:54	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	32980	No
13	GOM_NL__2PRFIN20080621_022226_000000362069_00361_32980_0418.N1	21-JUN-2008 02:22:26	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	32980	No
14	GOM_NL__2PRFIN20080621_022419_000000372069_00361_32980_0419.N1	21-JUN-2008 02:24:19	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	32980	No
15	GOM_NL__2PRFIN20080621_022801_000000342069_00361_32980_0420.N1	21-JUN-2008 02:28:01	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	32980	No
16	GOM_NL__2PRFIN20080621_023231_000000352069_00361_32980_0421.N1	21-JUN-2008 02:32:31	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	32980	No
17	GOM_NL__2PRFIN20080621_023943_000000402069_00361_32980_0422.N1	21-JUN-2008 02:39:43	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	32980	No
18	GOM_NL__2PRFIN20080621_024250_000000402069_00361_32980_0423.N1	21-JUN-2008 02:42:50	Bright	40.000	160	23Gam Per	2.9300	4700.0	80	32980	No
19	GOM_NL__2PRFIN20080621_024616_000000432069_00361_32980_0424.N1	21-JUN-2008 02:46:16	Bright	42.500	73	57Gam1And	2.2600	13100.	85	32980	No
20	GOM_NL__2PRFIN20080621_024839_000000452069_00361_32980_0425.N1	21-JUN-2008 02:48:39	Bright	44.500	173	4Bet Tri	3.0040	8900.0	89	32980	No
21	GOM_NL__2PRFIN20080621_025225_000000522069_00361_32980_0426.N1	21-JUN-2008 02:52:25	Twilight	52.000	50	13Alp Ari	2.0070	4250.0	104	32980	No
22	GOM_NL__2PRFIN20080621_025713_000000452069_00361_32980_0427.N1	21-JUN-2008 02:57:13	Dark	44.500	94	92Alp Cet	2.5260	3100.0	89	32980	No
23	GOM_NL__2PRFIN20080621_031516_000000432069_00361_32980_0428.N1	21-JUN-2008 03:15:16	Dark	42.500	9	Alp Eri	0.45300	24000.	85	32980	No
24	GOM_NL__2PRFIN20080621_032133_000000512069_00362_32981_0445.N1	21-JUN-2008 03:21:33	Dark	51.000	63	Bet Gru	2.1500	2800.0	102	32981	No
25	GOM_NL__2PRFIN20080621_032654_000000432069_00362_32981_0446.N1	21-JUN-2008 03:26:54	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	32981	No
26	GOM_NL__2PRFIN20080621_033254_000000372069_00362_32981_0447.N1	21-JUN-2008 03:32:54	Straylight	37.000	147	Alp Ara	2.8770	26000.	74	32981	No
27	GOM_NL__2PRFIN20080621_033440_000000402069_00362_32981_0448.N1	21-JUN-2008 03:34:40	Twilight	39.500	40	The Sco	1.8590	7100.0	79	32981	No
28	GOM_NL__2PRFIN20080621_033621_000000392069_00362_32981_0449.N1	21-JUN-2008 03:36:21	Twilight	39.000	25	35Lam Sco	1.6200	28000.	78	32981	No
29	GOM_NL__2PRFIN20080621_033741_000000482069_00362_32981_0450.N1	21-JUN-2008 03:37:41	Twilight	47.500	116	19Del Sgr	2.7000	4100.0	95	32981	No
30	GOM_NL__2PRFIN20080621_034245_000000382069_00362_32981_0451.N1	21-JUN-2008 03:42:45	Bright	37.500	86	35Eta Oph	2.4300	10200.	75	32981	No
31	GOM_NL__2PRFIN20080621_034429_000000362069_00362_32981_0452.N1	21-JUN-2008 03:44:29	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	32981	No
32	GOM_NL__2PRFIN20080621_034854_000000412069_00362_32981_0453.N1	21-JUN-2008 03:48:54	Bright	40.500	126	60Bet Oph	2.7700	4250.0	81	32981	No
33	GOM_NL__2PRFIN20080621_035120_000000392069_00362_32981_0454.N1	21-JUN-2008 03:51:20	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	32981	No
34	GOM_NL__2PRFIN20080621_035335_000000372069_00362_32981_0455.N1	21-JUN-2008 03:53:35	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	32981	No
35	GOM_NL__2PRFIN20080621_035630_000000372069_00362_32981_0456.N1	21-JUN-2008 03:56:30	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	32981	No
36	GOM_NL__2PRFIN20080621_040302_000000382069_00362_32981_0457.N1	21-JUN-2008 04:03:02	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	32981	No
37	GOM_NL__2PRFIN20080621_040455_000000372069_00362_32981_0458.N1	21-JUN-2008 04:04:55	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	32981	No
38	GOM_NL__2PRFIN20080621_040837_000000332069_00362_32981_0459.N1	21-JUN-2008 04:08:37	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	32981	No
39	GOM_NL__2PRFIN20080621_041307_000000352069_00362_32981_0460.N1	21-JUN-2008 04:13:07	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	32981	No
40	GOM_NL__2PRFIN20080621_042019_000000612069_00362_32981_0461.N1	21-JUN-2008 04:20:19	Bright	61.000	76	27Gam Cas	2.3000	30000.	122	32981	No
41	GOM_NL__2PRFIN20080621_042326_000000362069_00362_32981_0462.N1	21-JUN-2008 04:23:26	Bright	36.000	160	23Gam Per	2.9300	4700.0	72	32981	No
42	GOM_NL__2PRFIN20080621_042652_000000422069_00362_32981_0463.N1	21-JUN-2008 04:26:52	Bright	42.000	73	57Gam1And	2.2600	13100.	84	32981	No

279	GOM_NL__2PRFIN20080621_215932_000000372069_00373_32992_0716.N1	21-JUN-2008 21:59:32	Straylight	37.000	147	Alp Ara	2.8770	26000.	74	32992	No
280	GOM_NL__2PRFIN20080621_220118_000000432069_00373_32992_0717.N1	21-JUN-2008 22:01:18	Twilight	42.500	40	The Sco	1.8590	7100.0	85	32992	No
281	GOM_NL__2PRFIN20080621_220259_000000412069_00373_32992_0718.N1	21-JUN-2008 22:02:59	Twilight	41.000	25	35Lam Sco	1.6200	28000.	82	32992	No
282	GOM_NL__2PRFIN20080621_220420_000000532069_00373_32992_0719.N1	21-JUN-2008 22:04:20	Bright	53.000	116	19Del Sgr	2.7000	4100.0	106	32992	No
283	GOM_NL__2PRFIN20080621_220922_000000392069_00373_32992_0720.N1	21-JUN-2008 22:09:22	Bright	38.500	86	35Eta Oph	2.4300	10200.	77	32992	No
284	GOM_NL__2PRFIN20080621_221106_000000362069_00373_32992_0721.N1	21-JUN-2008 22:11:06	Bright	35.500	98	13Zet Oph	2.5710	30000.	71	32992	No
285	GOM_NL__2PRFIN20080621_221528_000000592069_00373_32992_0722.N1	21-JUN-2008 22:15:28	Bright	59.000	126	60Bet Oph	2.7700	4250.0	118	32992	No
286	GOM_NL__2PRFIN20080621_221753_000000392069_00373_32992_0723.N1	21-JUN-2008 22:17:53	Bright	38.500	59	55Alp Oph	2.0800	8900.0	77	32992	No
287	GOM_NL__2PRFIN20080621_222011_000000372069_00373_32992_0724.N1	21-JUN-2008 22:20:11	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	32992	No
288	GOM_NL__2PRFIN20080621_222304_000000352069_00373_32992_0725.N1	21-JUN-2008 22:23:04	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	32992	No
289	GOM_NL__2PRFIN20080621_222934_000000392069_00373_32992_0726.N1	21-JUN-2008 22:29:34	Bright	39.000	130	23Bet Dra	2.7990	5800.0	78	32992	No
290	GOM_NL__2PRFIN20080621_223130_000000372069_00373_32992_0727.N1	21-JUN-2008 22:31:30	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	32992	No
291	GOM_NL__2PRFIN20080621_223513_000000382069_00373_32992_0728.N1	21-JUN-2008 22:35:13	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	32992	No
292	GOM_NL__2PRFIN20080621_223943_000000322069_00373_32992_0729.N1	21-JUN-2008 22:39:43	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	32992	No
293	GOM_NL__2PRFIN20080621_224651_000000612069_00373_32992_0730.N1	21-JUN-2008 22:46:51	Bright	61.000	76	27Gam Cas	2.3000	30000.	122	32992	No
294	GOM_NL__2PRFIN20080621_225002_000000542069_00373_32992_0731.N1	21-JUN-2008 22:50:02	Bright	54.000	160	23Gam Per	2.9300	4700.0	108	32992	No
295	GOM_NL__2PRFIN20080621_225327_000000432069_00373_32992_0732.N1	21-JUN-2008 22:53:27	Bright	43.000	73	57Gam1And	2.2600	13100.	86	32992	No
296	GOM_NL__2PRFIN20080621_225551_000000442069_00373_32992_0733.N1	21-JUN-2008 22:55:51	Twilight	44.000	173	4Bet Tri	3.0040	8900.0	88	32992	No
297	GOM_NL__2PRFIN20080621_225939_000000552069_00373_32992_0734.N1	21-JUN-2008 22:59:39	Twilight	55.000	50	13Alp Ari	2.0070	4250.0	110	32992	No
298	GOM_NL__2PRFIN20080621_230428_000000452069_00373_32992_0735.N1	21-JUN-2008 23:04:28	Dark	45.000	94	92Alp Cet	2.5260	3100.0	90	32992	No
299	GOM_NL__2PRFIN20080621_232232_000000402069_00373_32992_0736.N1	21-JUN-2008 23:22:32	Dark	39.500	9	Alp Eri	0.45300	24000.	79	32992	No
300	GOM_NL__2PRFIN20080621_232856_000000552069_00374_32993_0737.N1	21-JUN-2008 23:28:56	Dark	54.500	63	Bet Gru	2.1500	2800.0	109	32993	No
301	GOM_NL__2PRFIN20080621_233412_000000412069_00374_32993_0738.N1	21-JUN-2008 23:34:12	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	32993	No
302	GOM_NL__2PRFIN20080621_234008_000000382069_00374_32993_0739.N1	21-JUN-2008 23:40:08	Straylight	38.000	147	Alp Ara	2.8770	26000.	76	32993	No
303	GOM_NL__2PRFIN20080621_234154_000000422069_00374_32993_0740.N1	21-JUN-2008 23:41:54	Twilight	42.000	40	The Sco	1.8590	7100.0	84	32993	No
304	GOM_NL__2PRFIN20080621_234335_000000432069_00374_32993_0741.N1	21-JUN-2008 23:43:35	Twilight	42.500	25	35Lam Sco	1.6200	28000.	85	32993	No
305	GOM_NL__2PRFIN20080621_234456_000000592069_00374_32993_0742.N1	21-JUN-2008 23:44:56	Bright	59.000	116	19Del Sgr	2.7000	4100.0	118	32993	No
306	GOM_NL__2PRFIN20080621_234958_000000382069_00374_32993_0743.N1	21-JUN-2008 23:49:58	Bright	37.500	86	35Eta Oph	2.4300	10200.	75	32993	No
307	GOM_NL__2PRFIN20080621_235141_000000372069_00374_32993_0744.N1	21-JUN-2008 23:51:41	Bright	36.500	98	13Zet Oph	2.5710	30000.	73	32993	No
308	GOM_NL__2PRFIN20080621_235603_000000402069_00374_32993_0745.N1	21-JUN-2008 23:56:03	Bright	39.500	126	60Bet Oph	2.7700	4250.0	79	32993	No
309	GOM_NL__2PRFIN20080621_235828_000000392069_00374_32993_0746.N1	21-JUN-2008 23:58:28	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	32993	No

3. Quality information per product

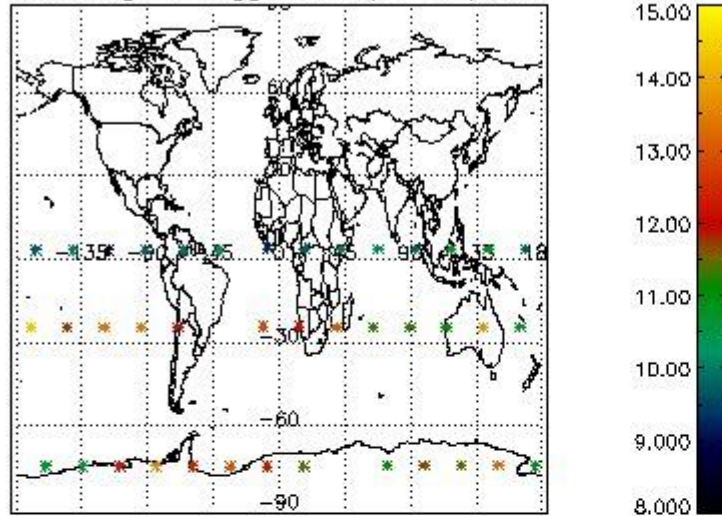
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

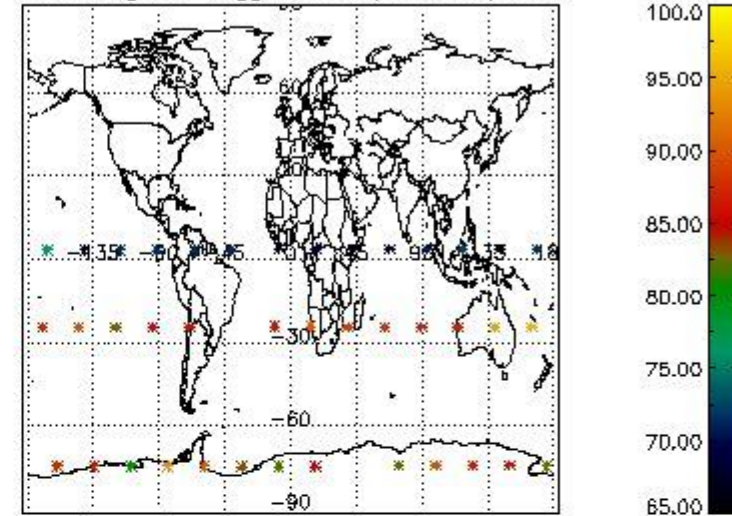


3.2 Plot quality information per product (world map)

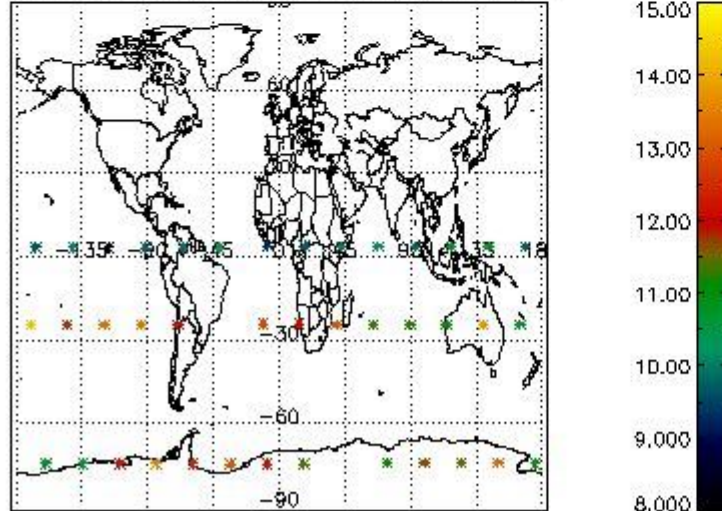
Percentage of flagged data per O3 profile



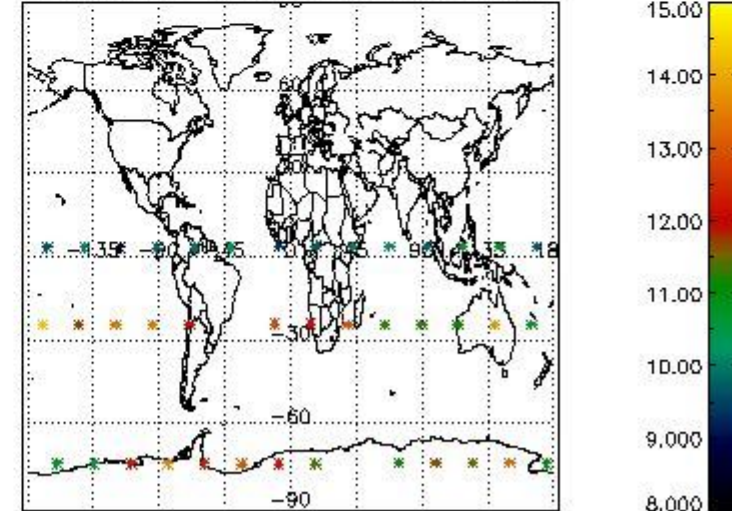
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

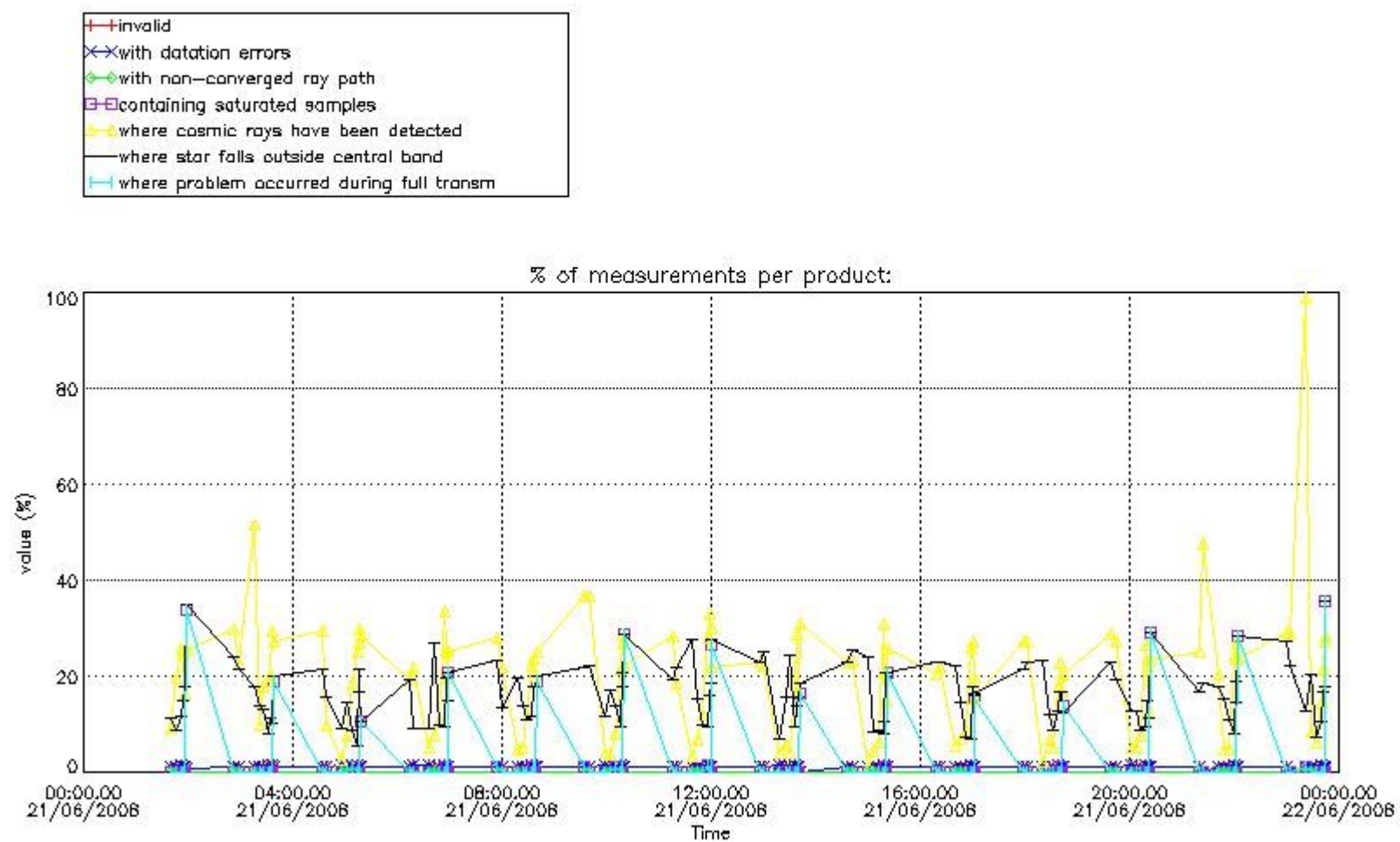


4. Level 1 quality information per product

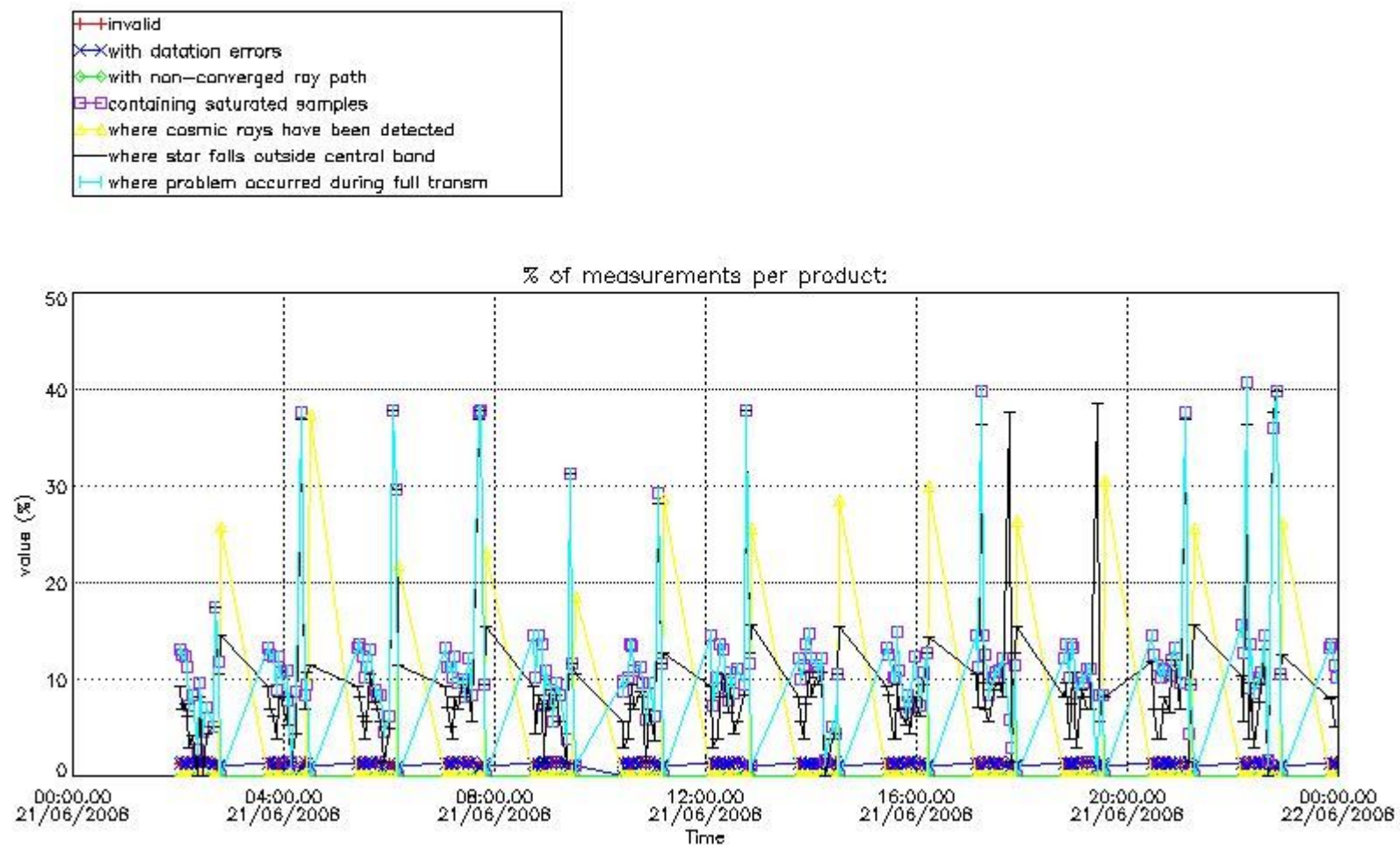
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

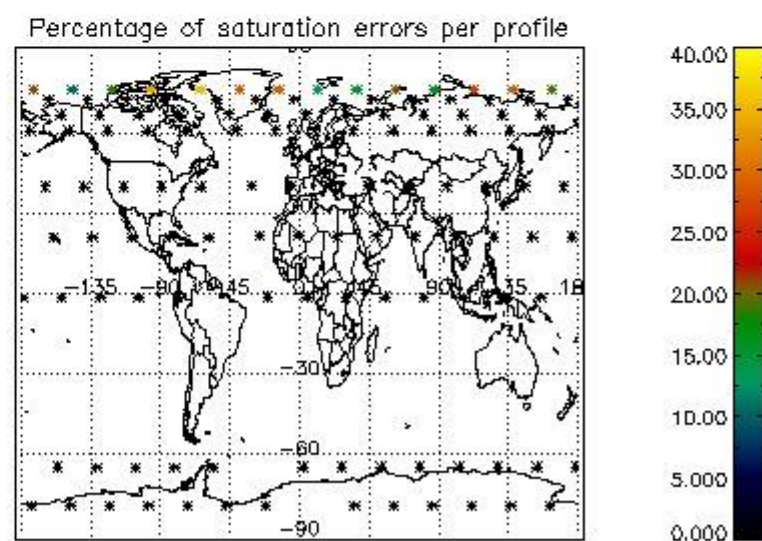
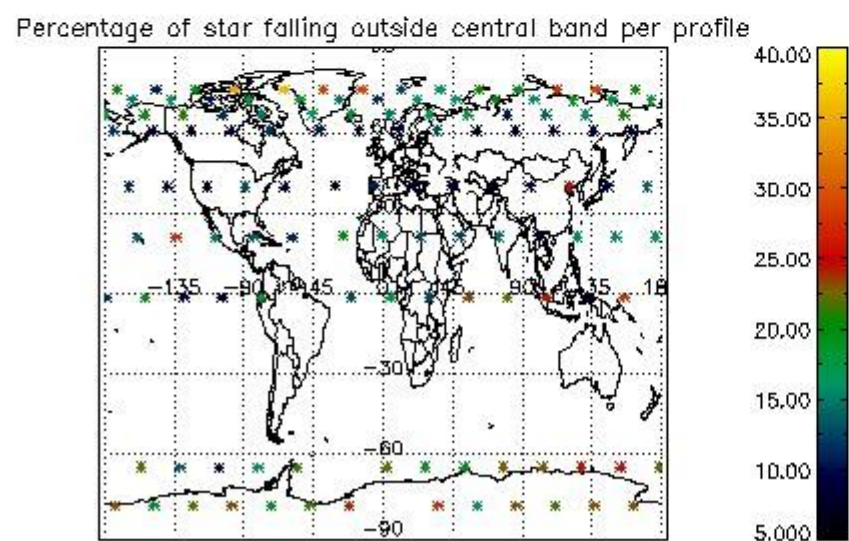
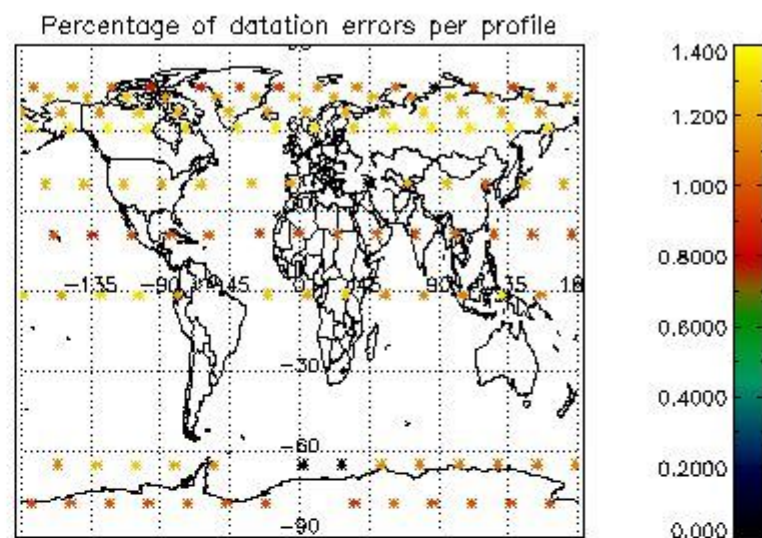
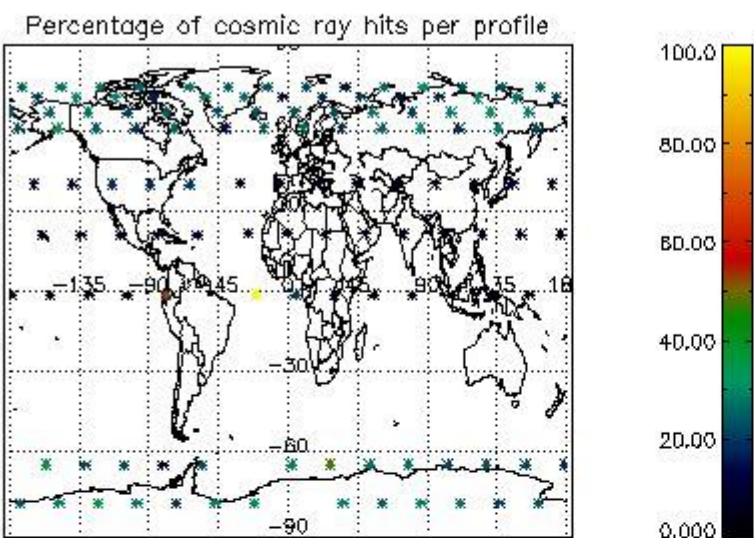


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

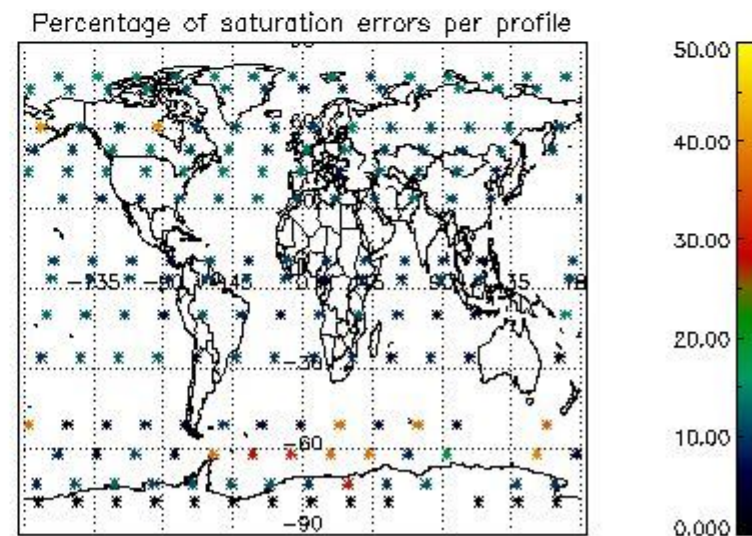
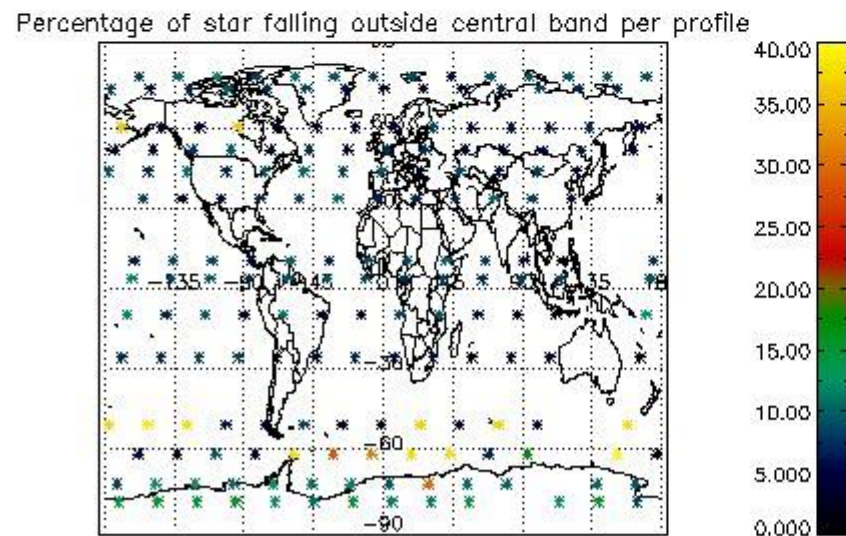
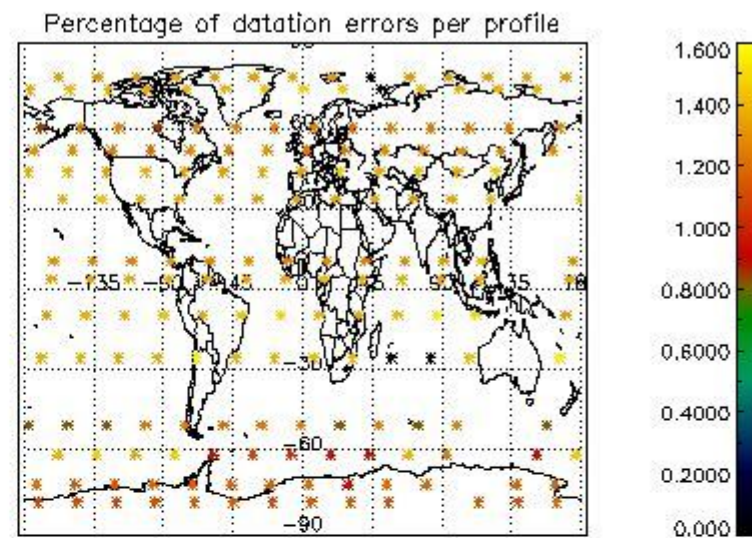
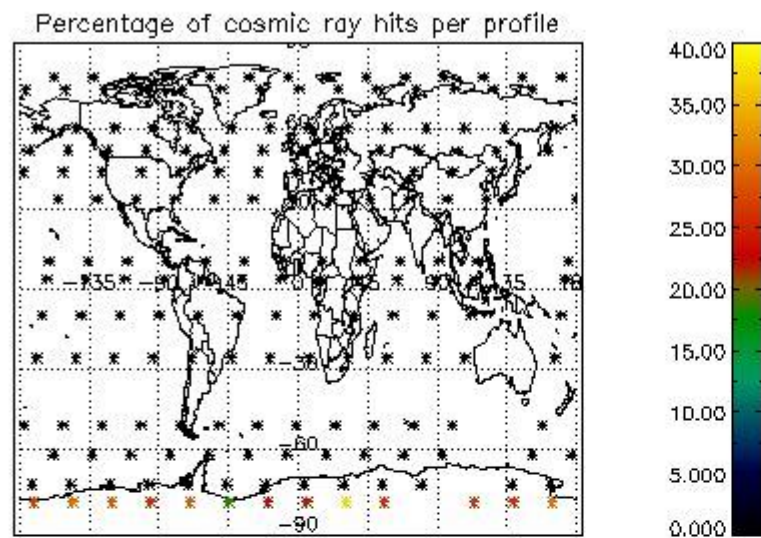


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

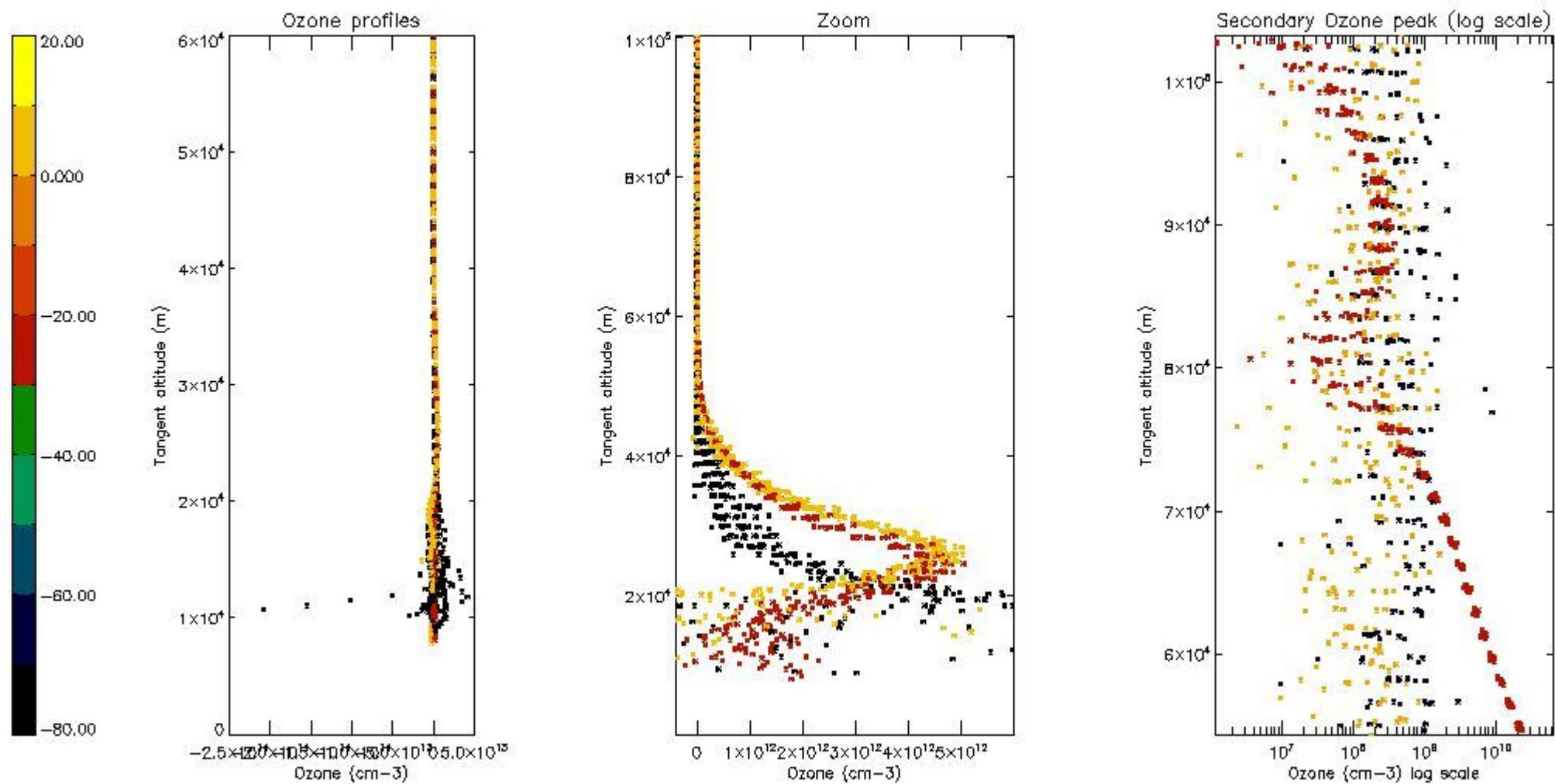
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	15
STD < 20	6

STD < 10	4
STD < 5	2

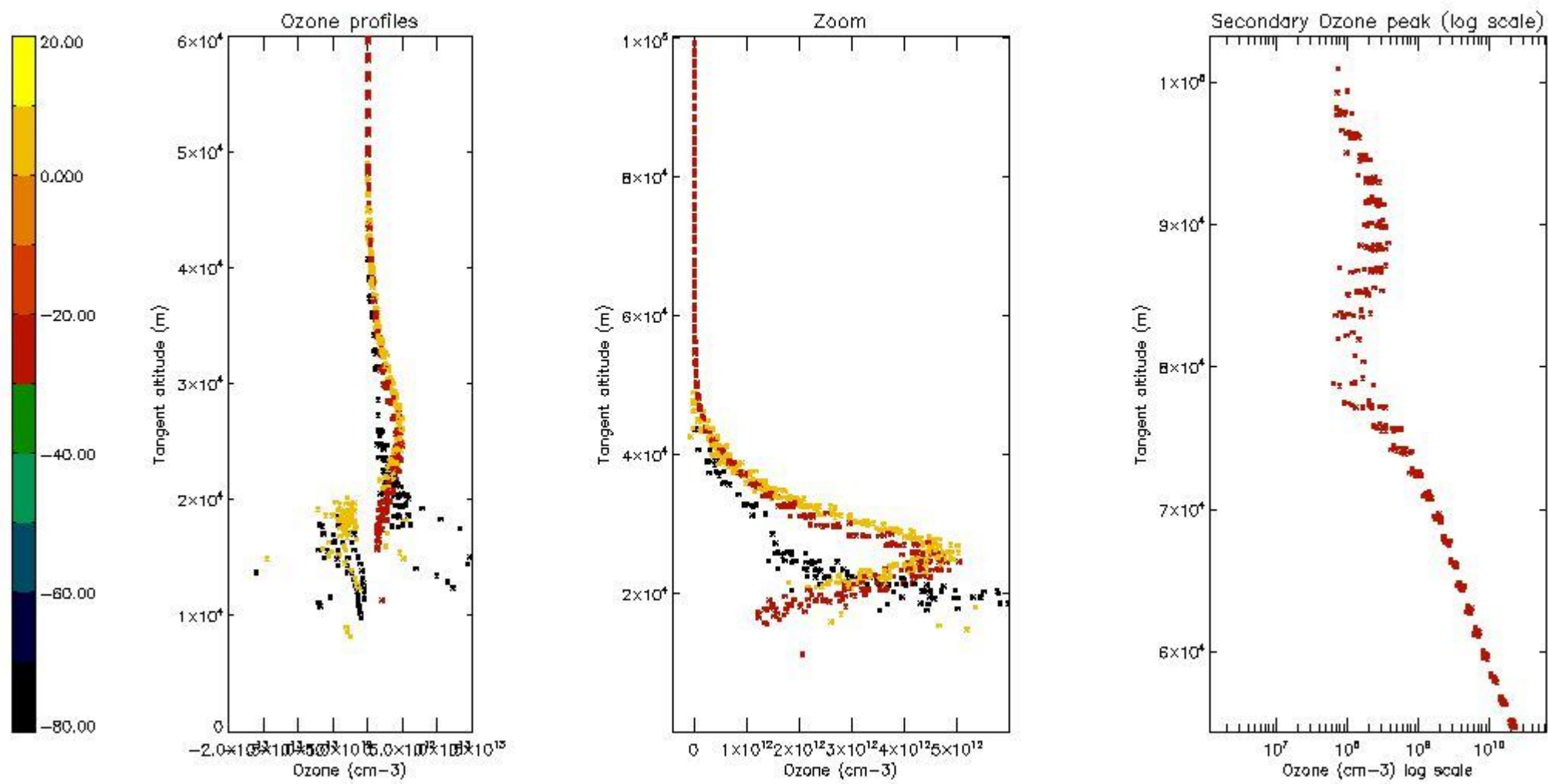
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



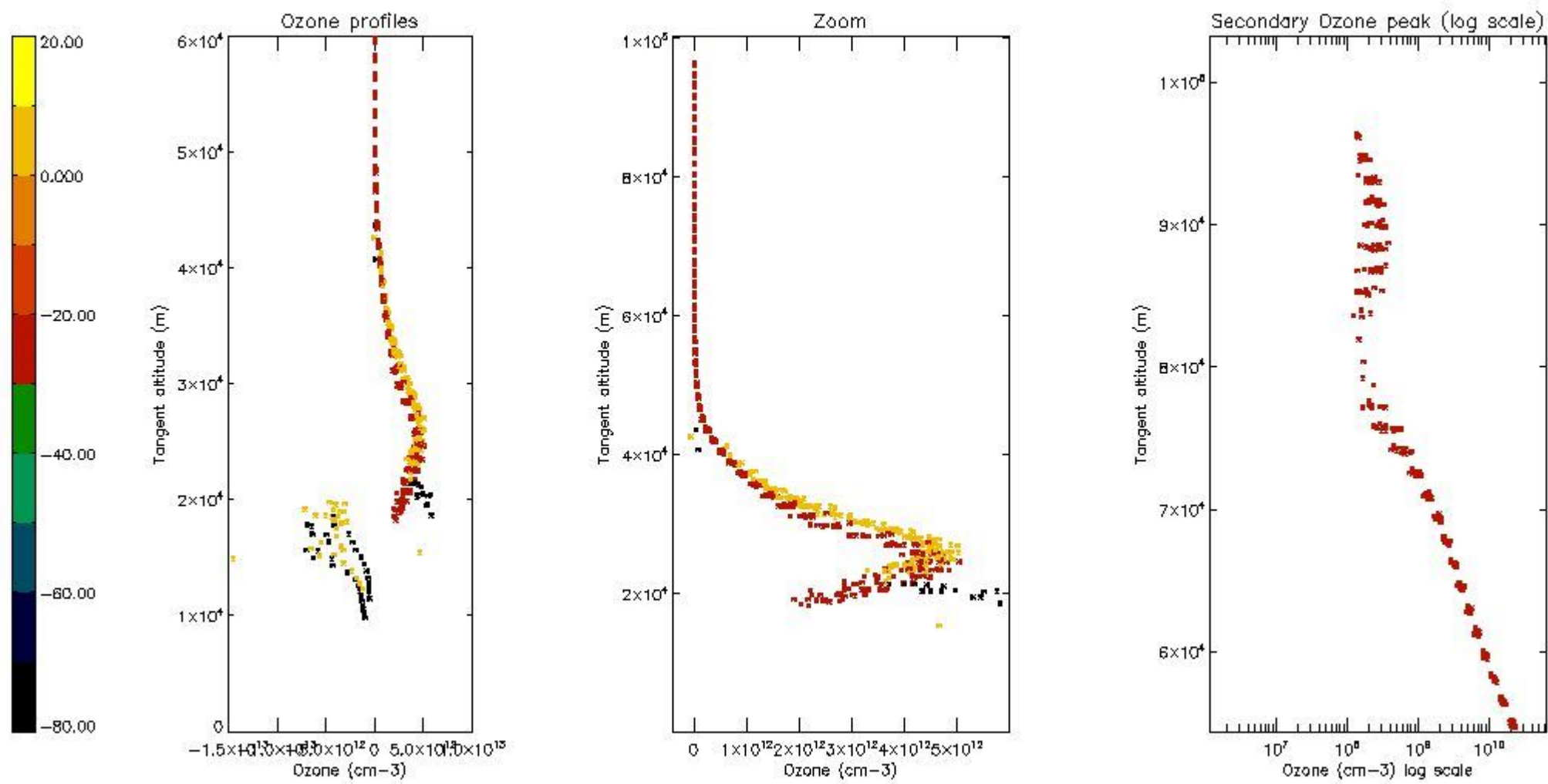
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



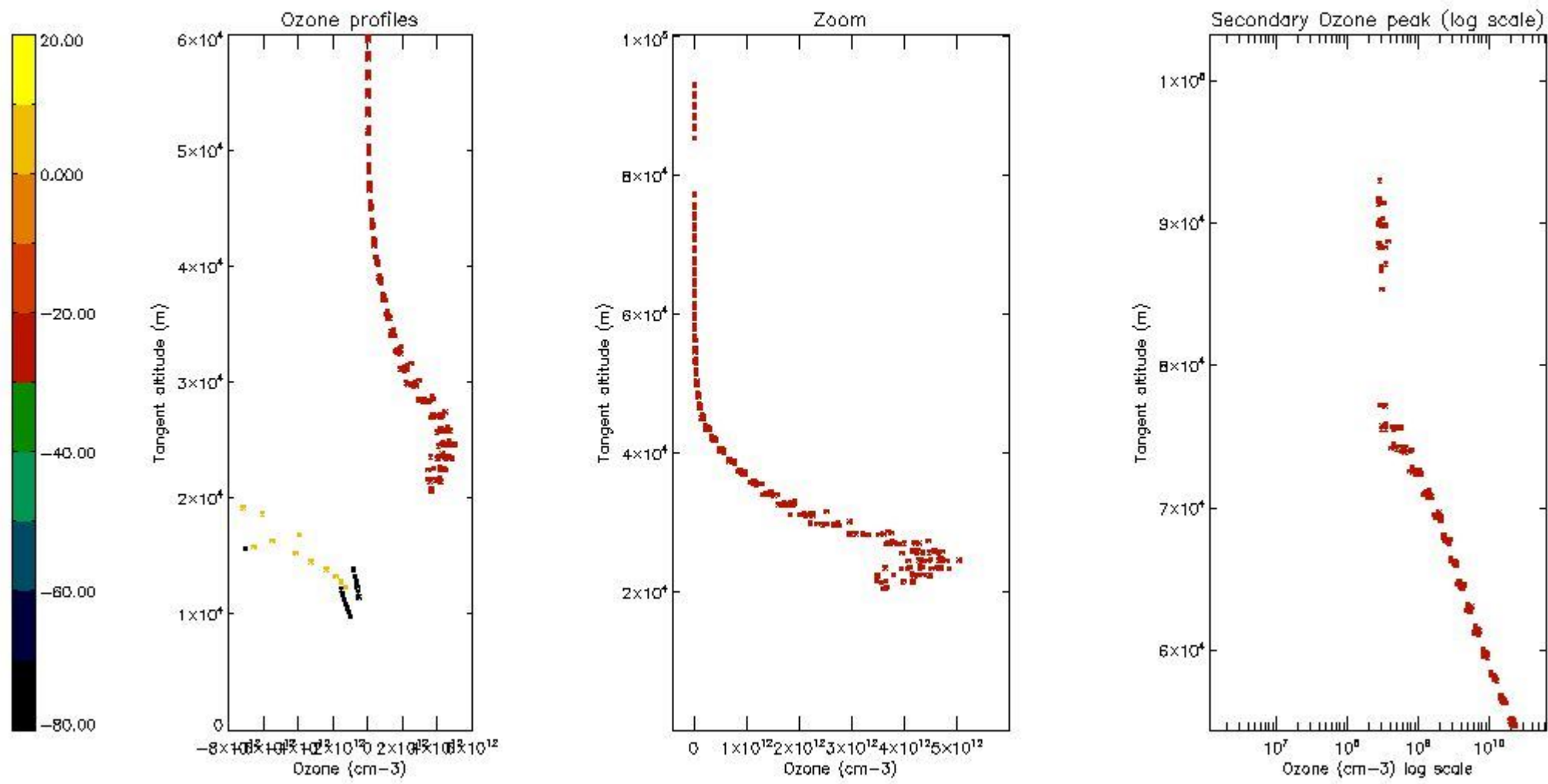
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



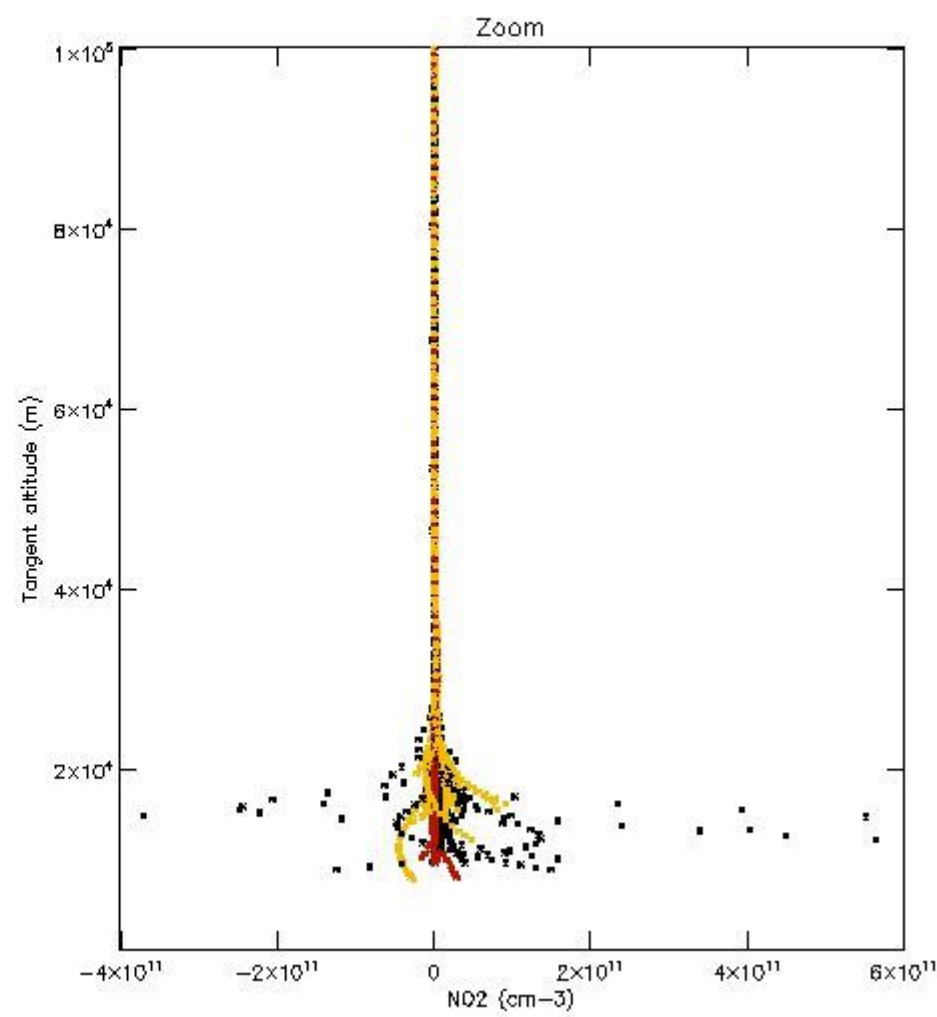
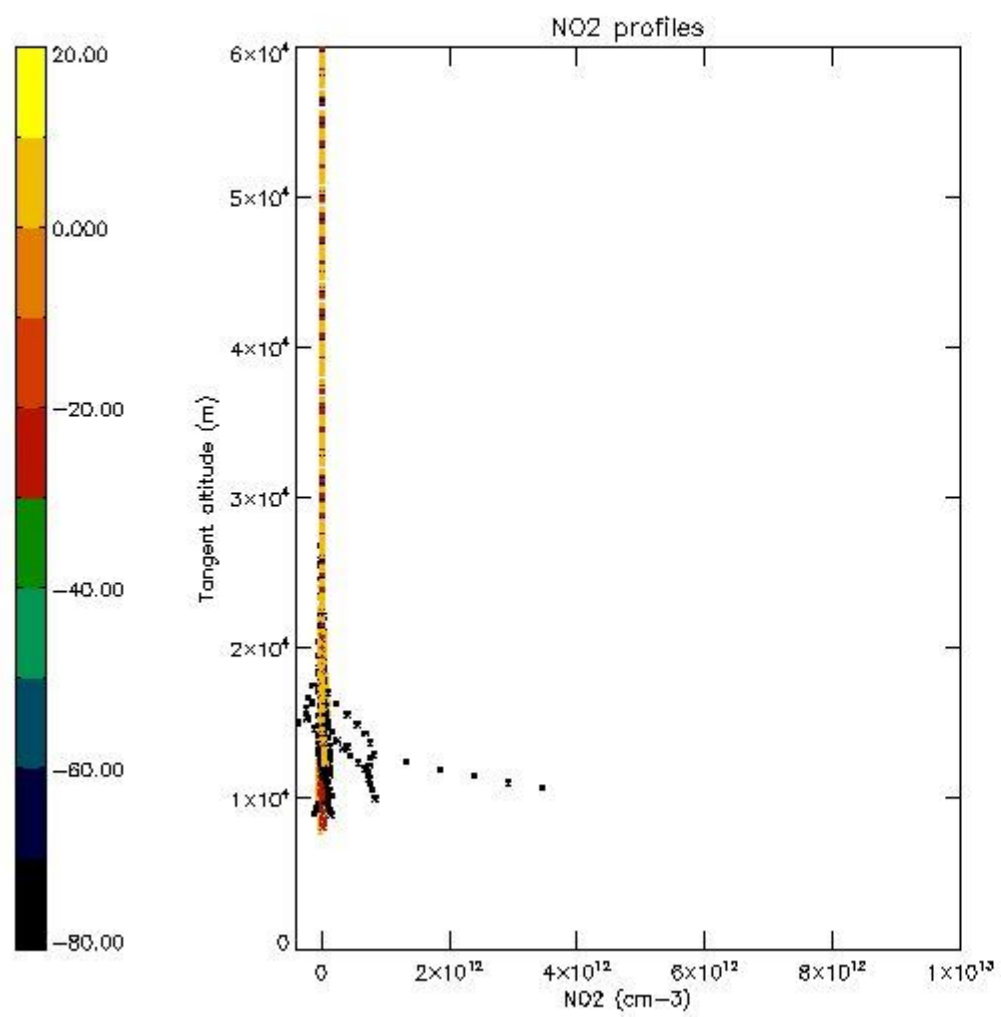
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



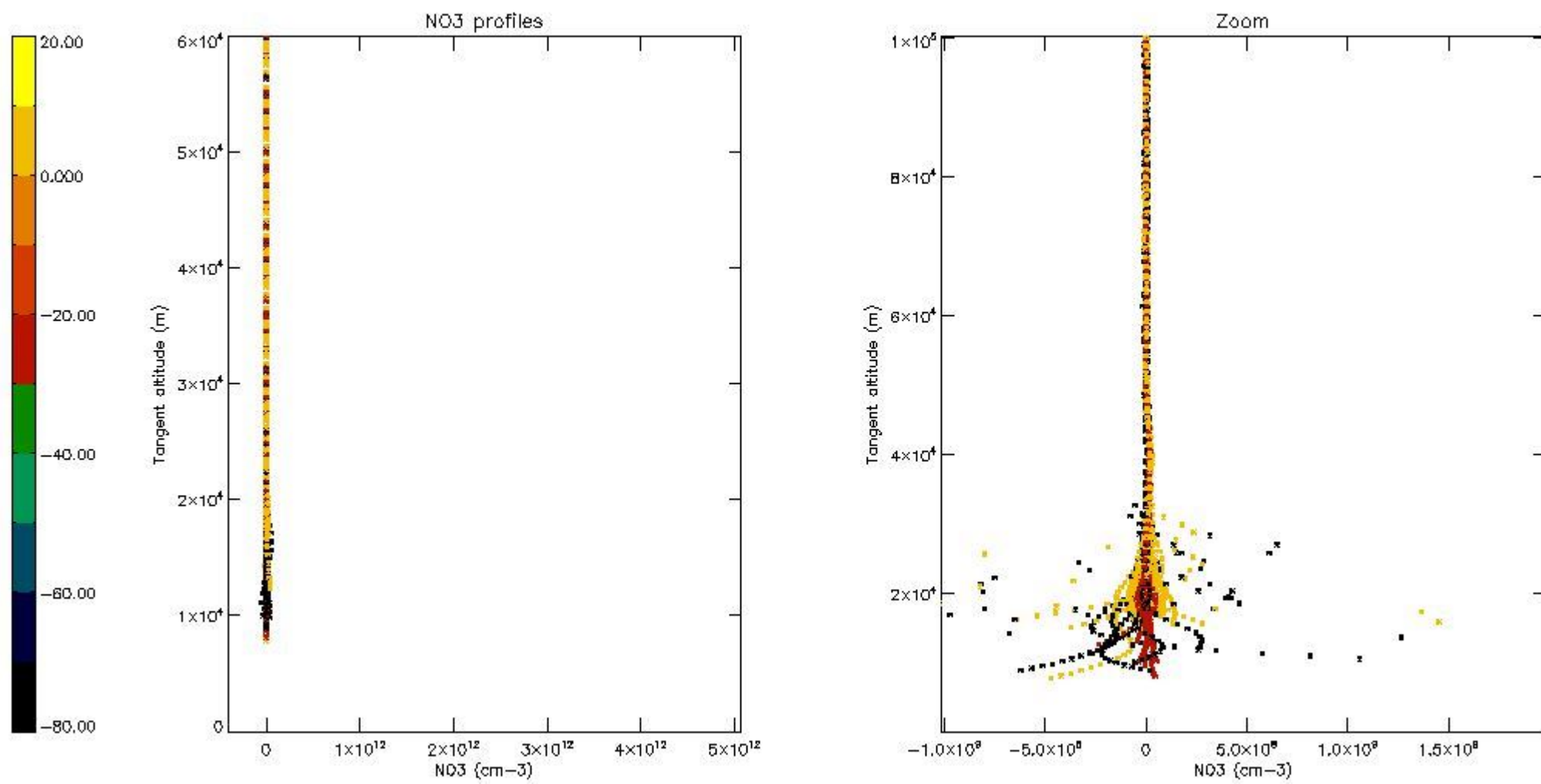
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



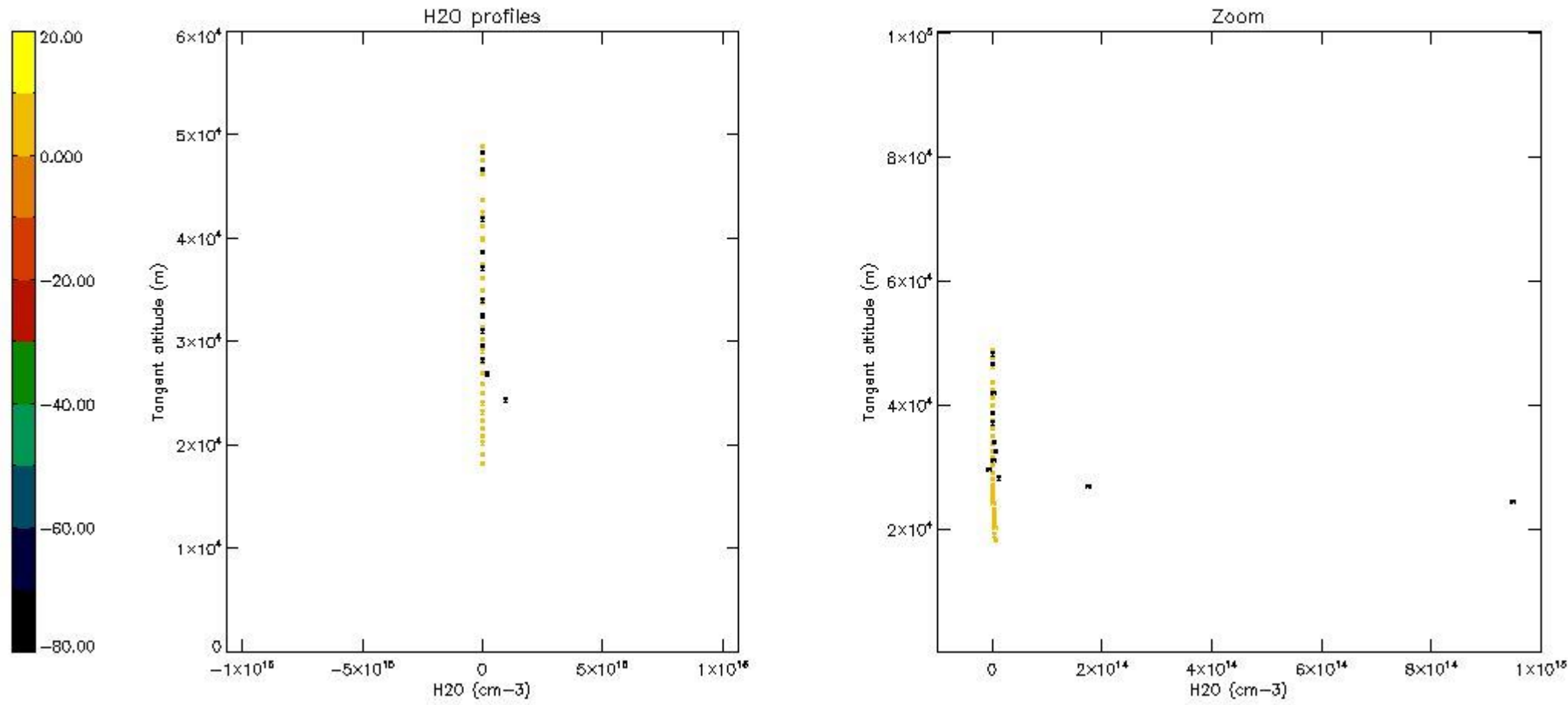
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

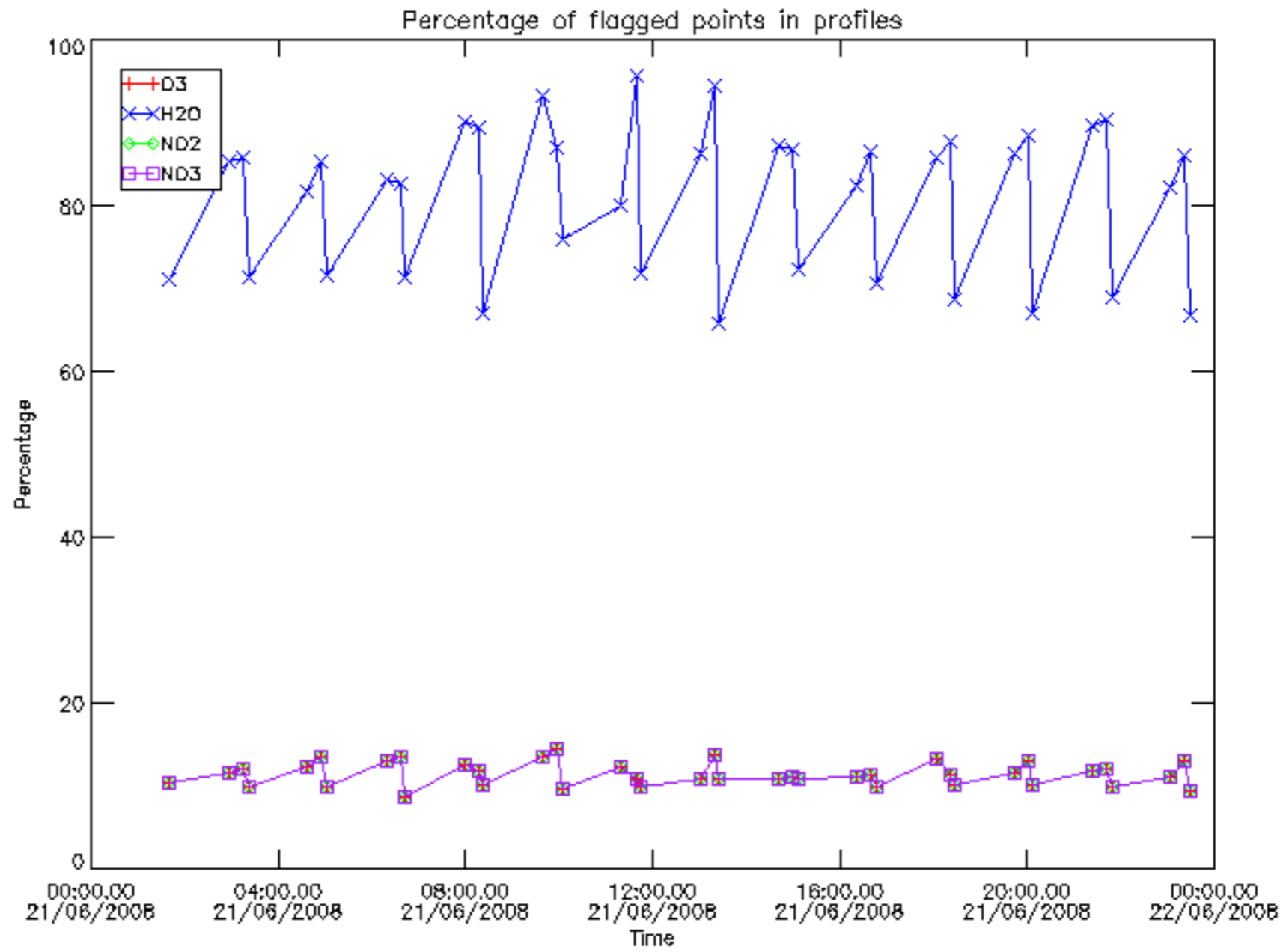
The colorbar represents the latitude.



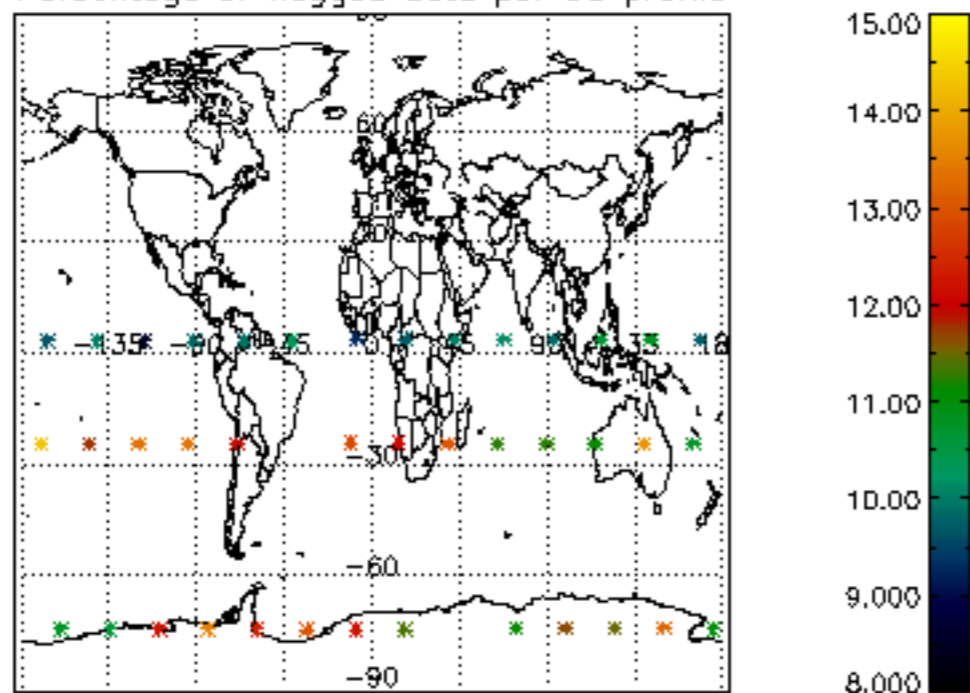
6. Auxiliary Data Files used for the production reported in section 2

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.

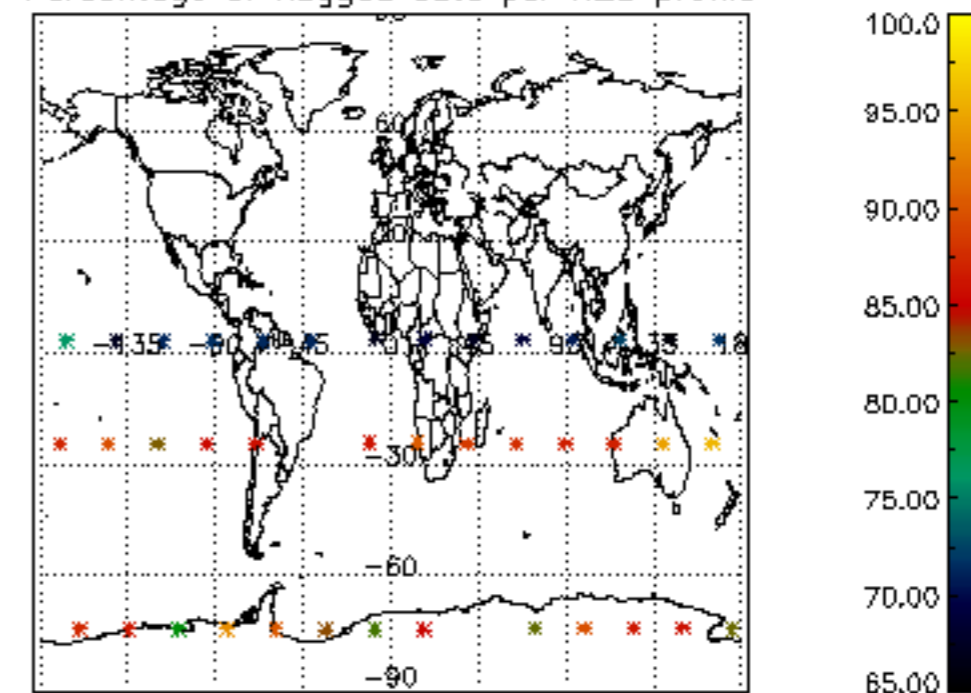
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	21-JUN-2008 01:40:56
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	21-JUN-2008 01:40:56
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	21-JUN-2008 01:40:56



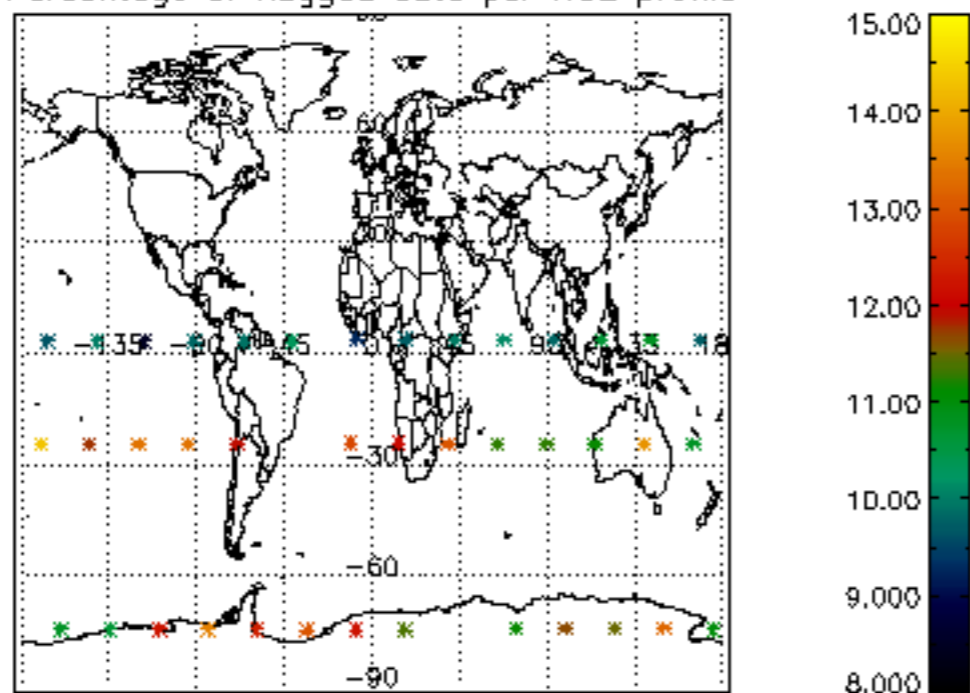
Percentage of flagged data per D3 profile



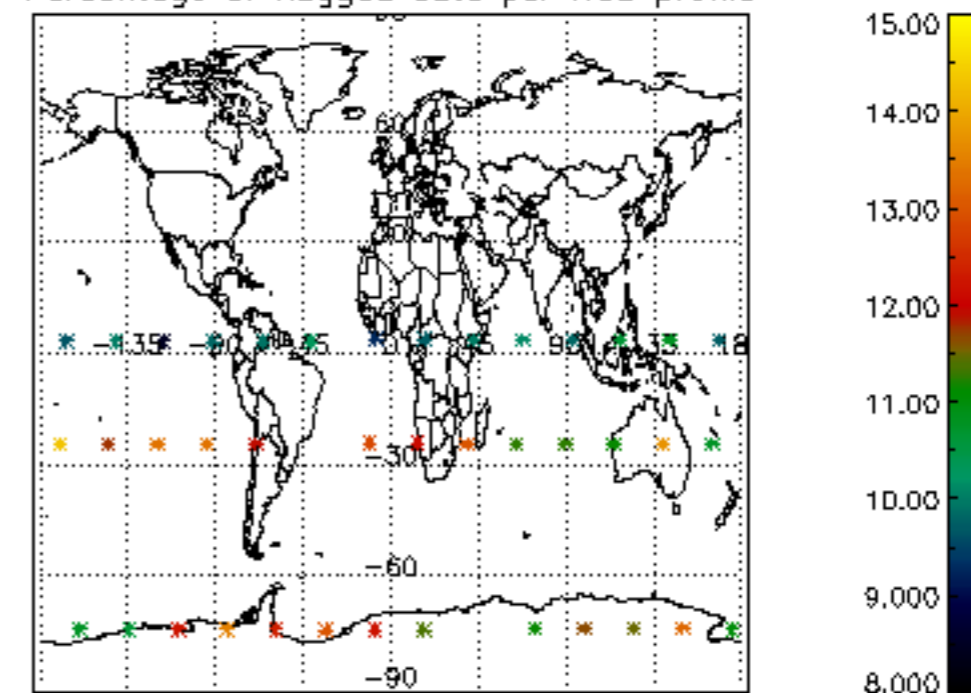
Percentage of flagged data per H2O profile

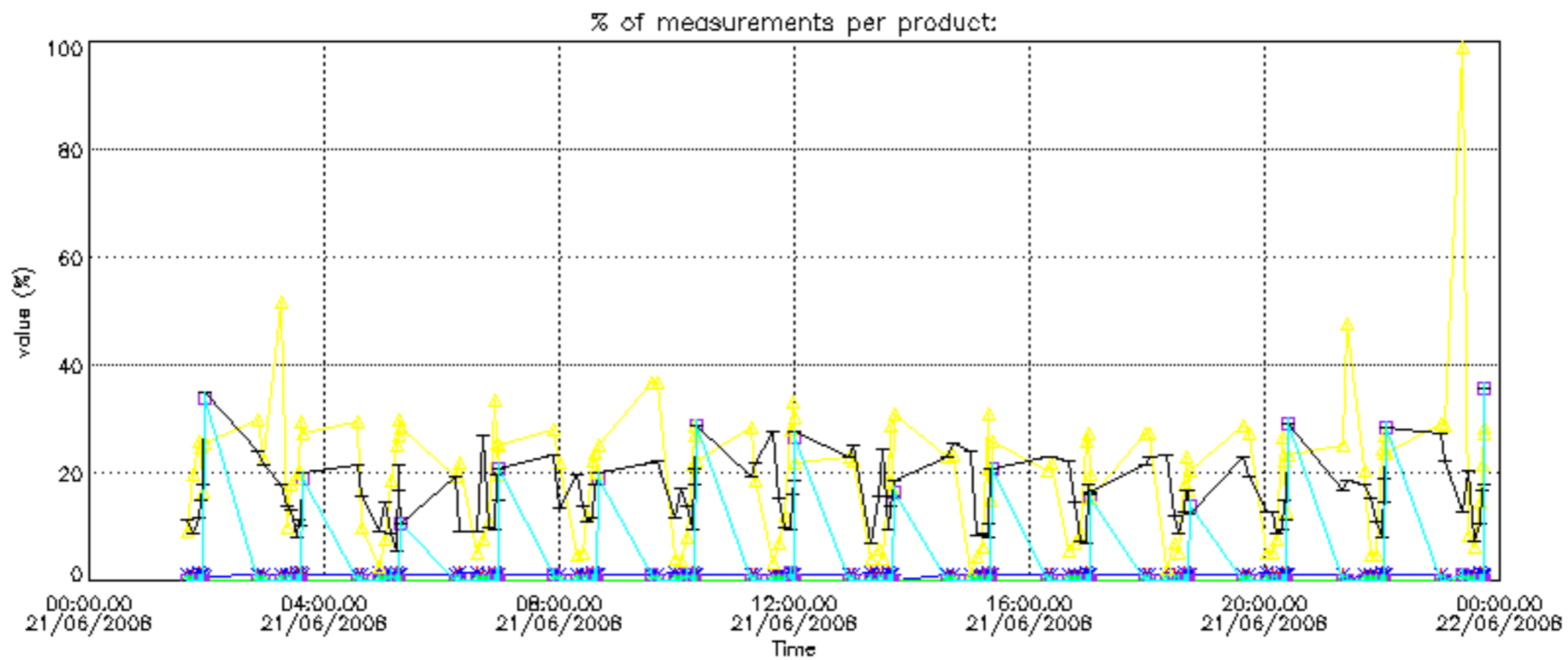


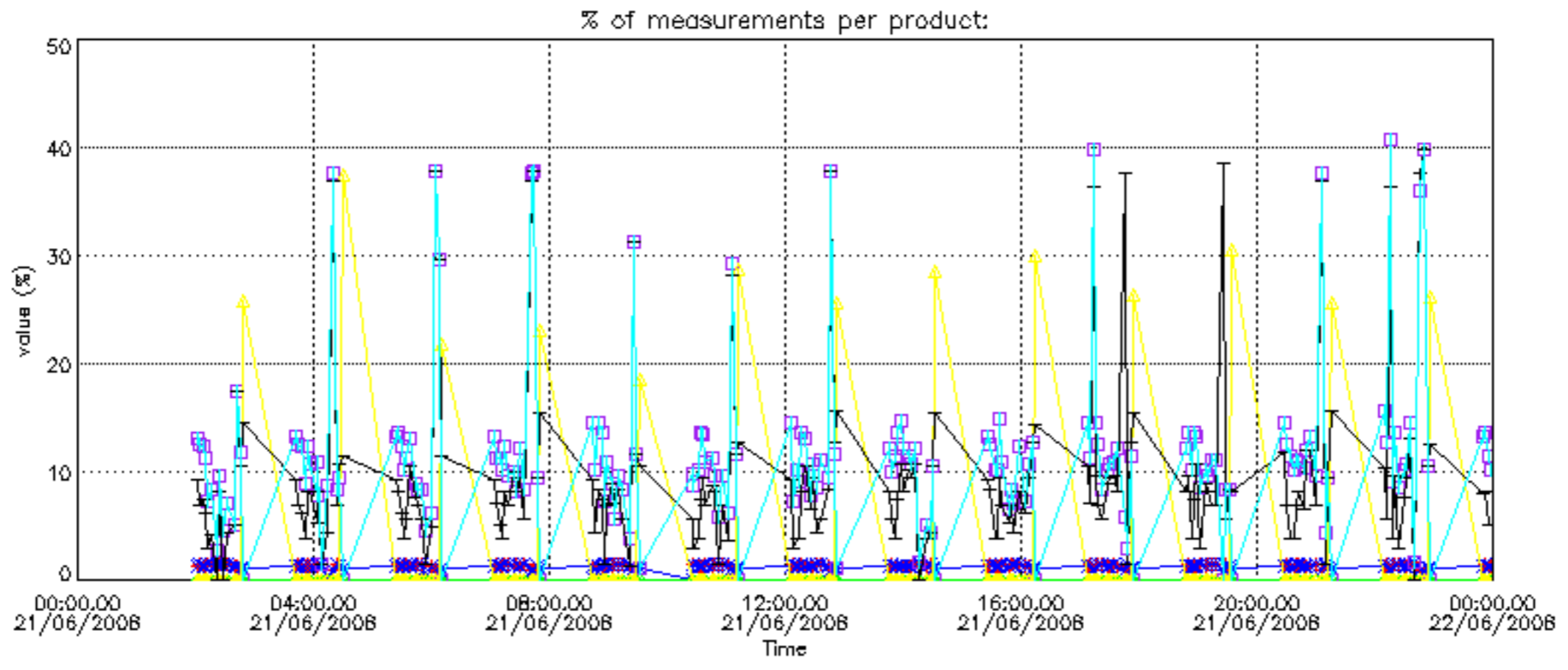
Percentage of flagged data per NO2 profile



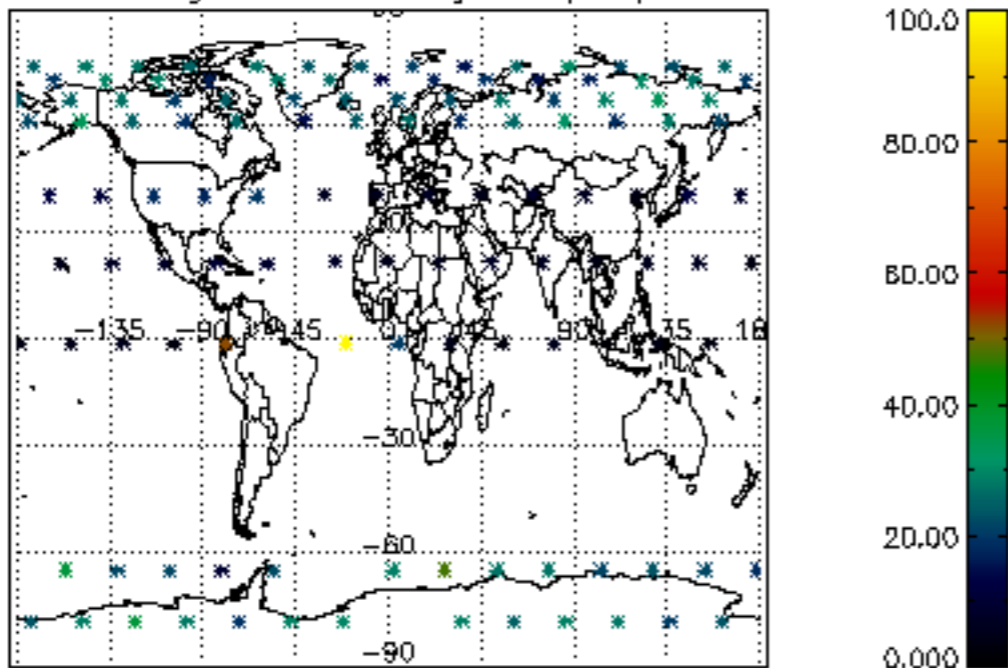
Percentage of flagged data per NO3 profile



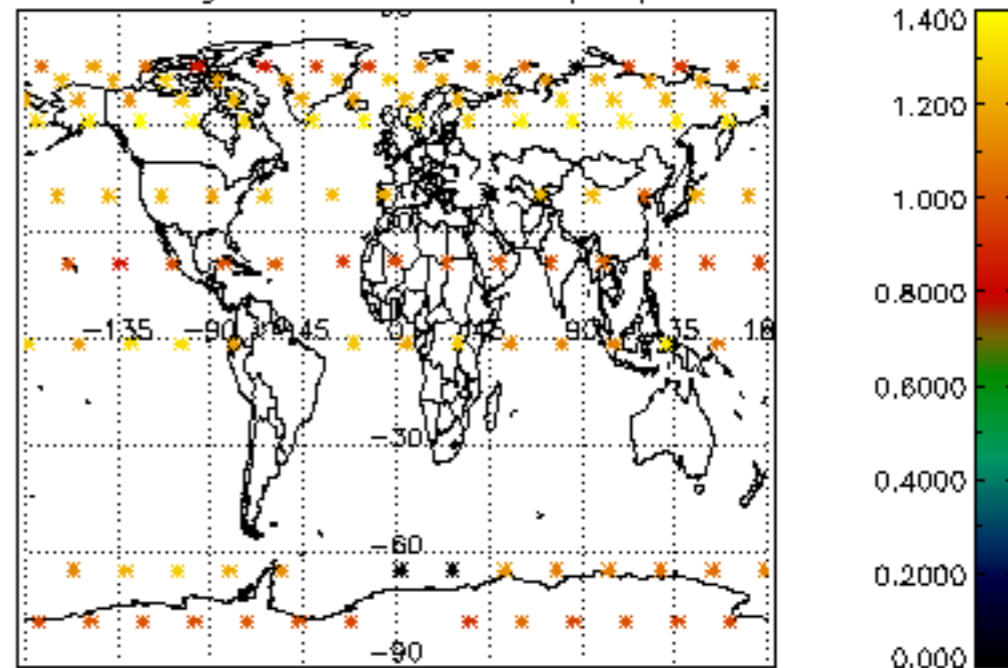




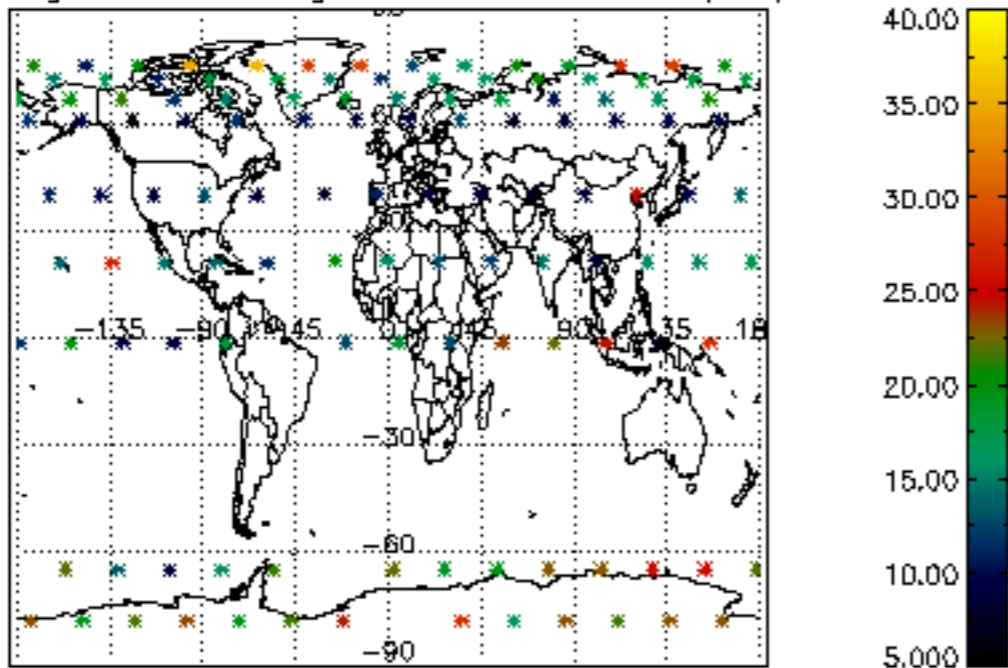
Percentage of cosmic ray hits per profile



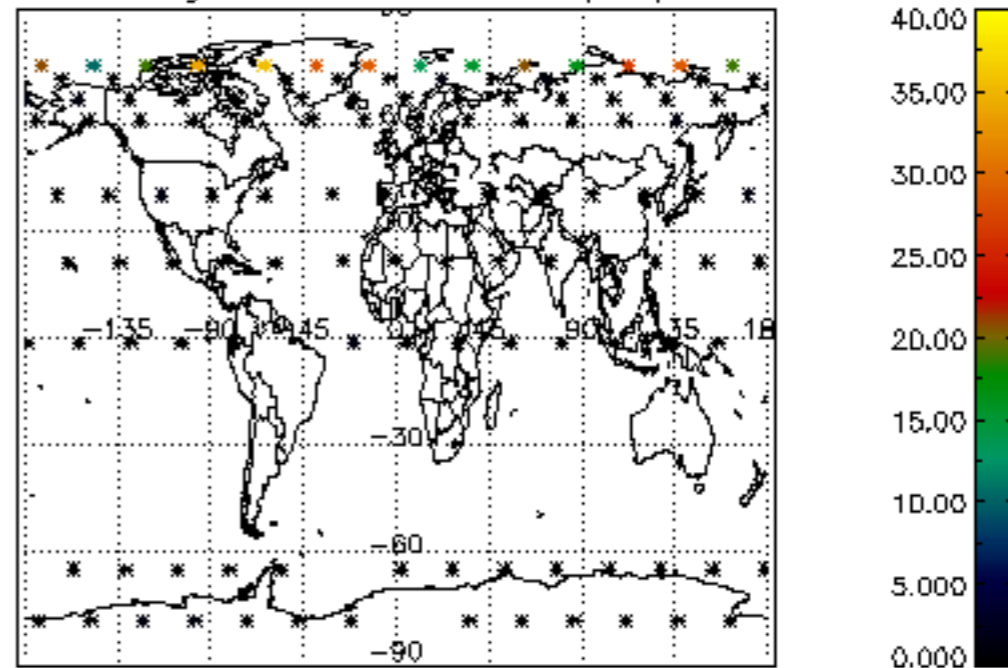
Percentage of datation errors per profile



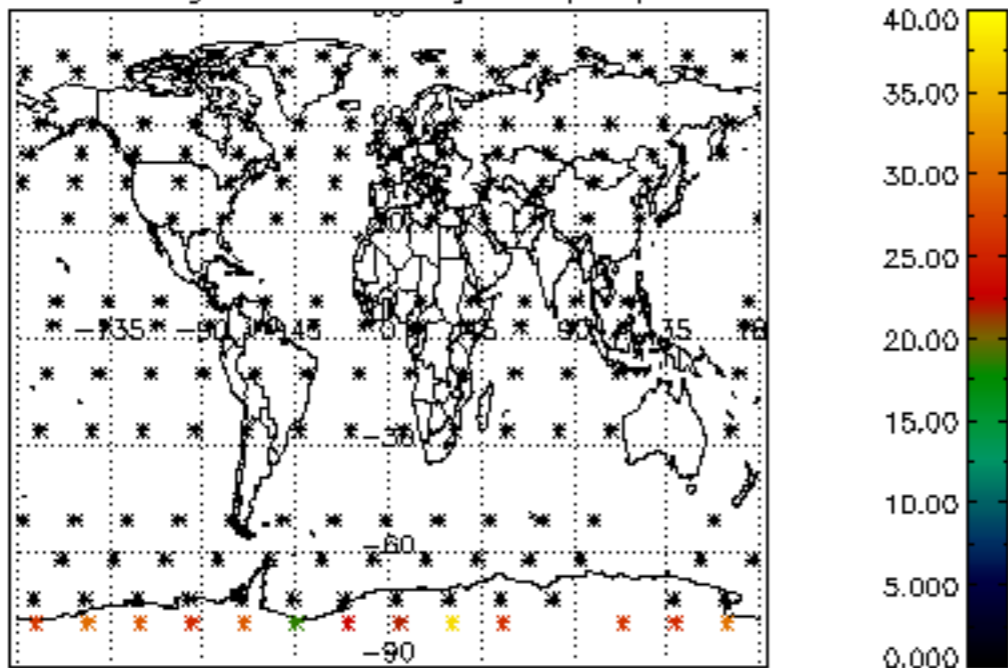
Percentage of star falling outside central band per profile



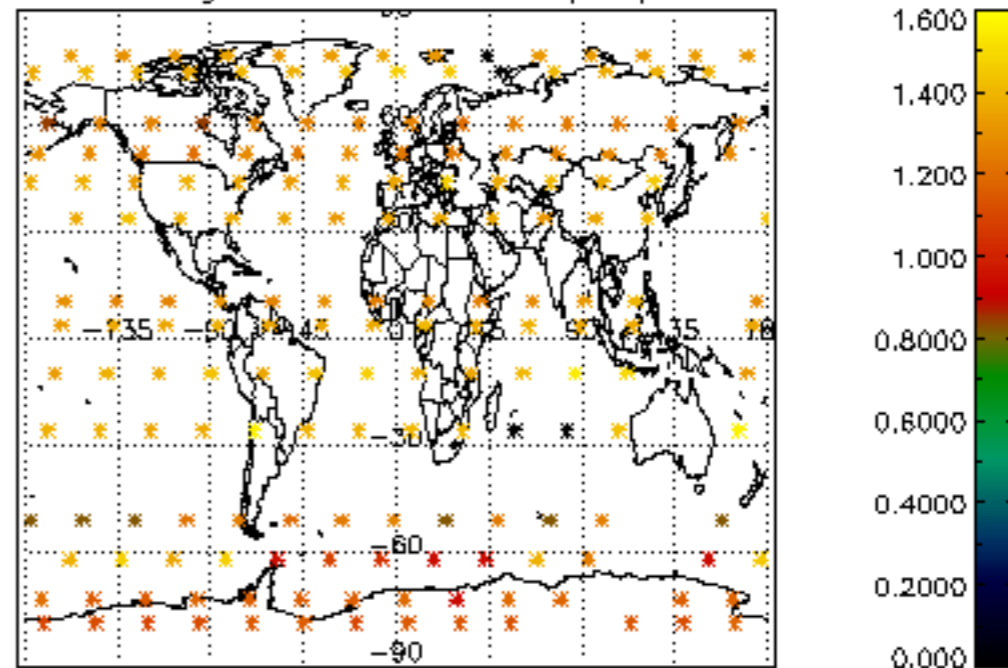
Percentage of saturation errors per profile



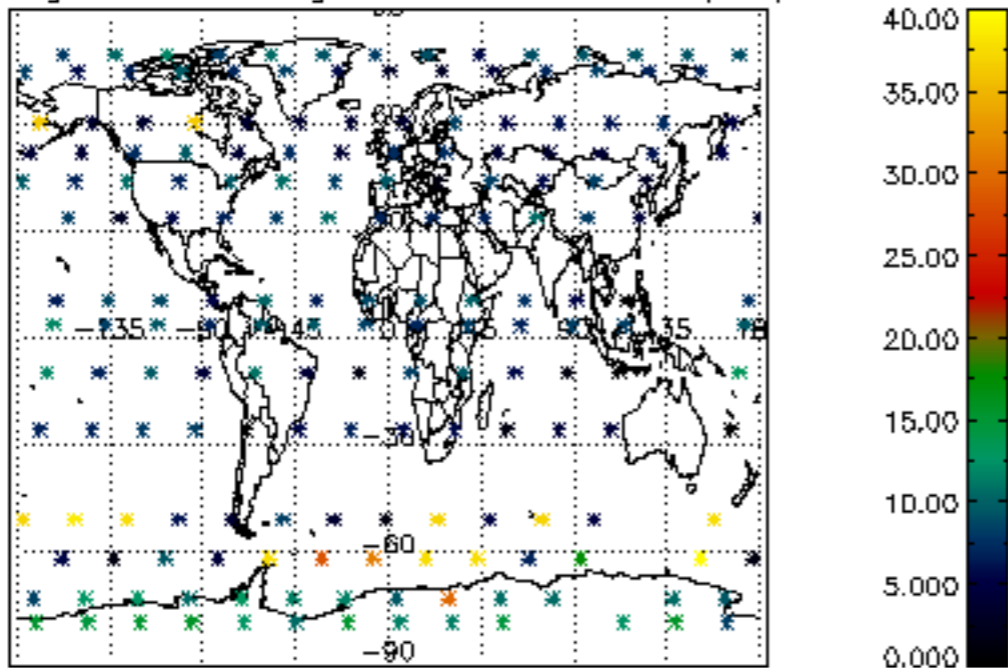
Percentage of cosmic ray hits per profile



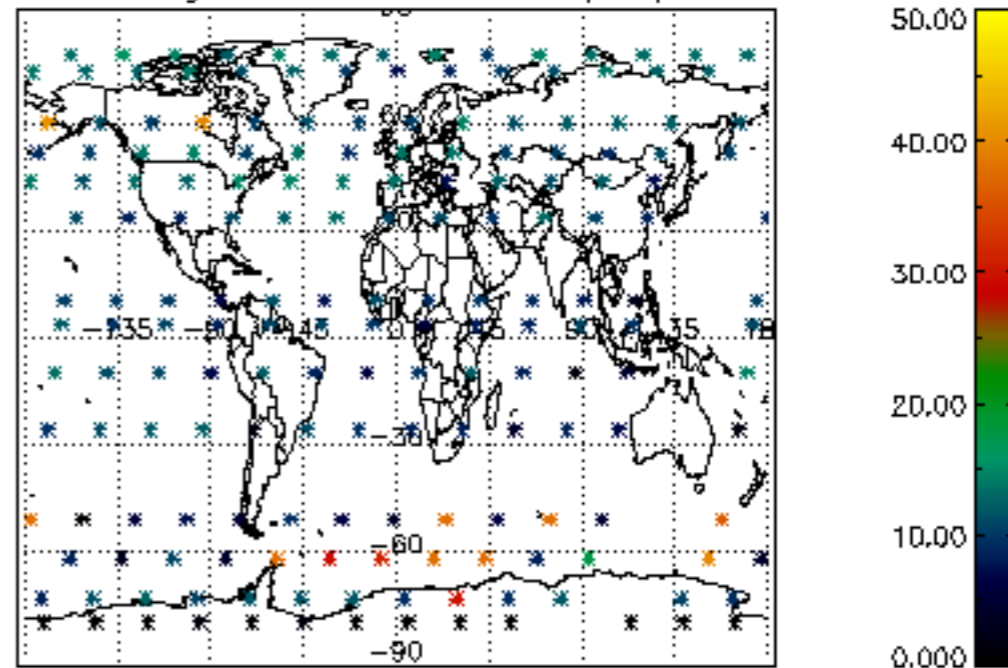
Percentage of datation errors per profile

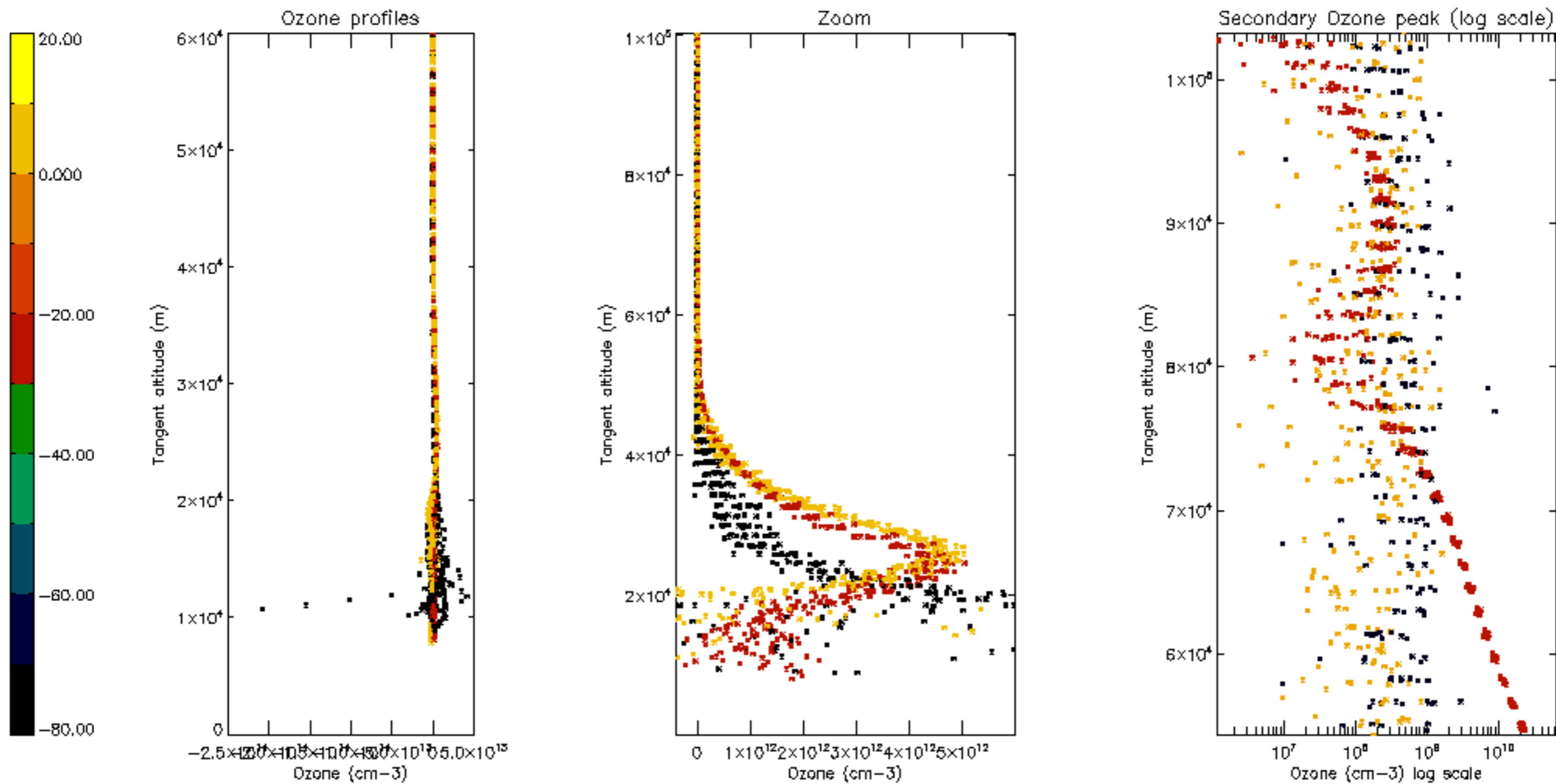


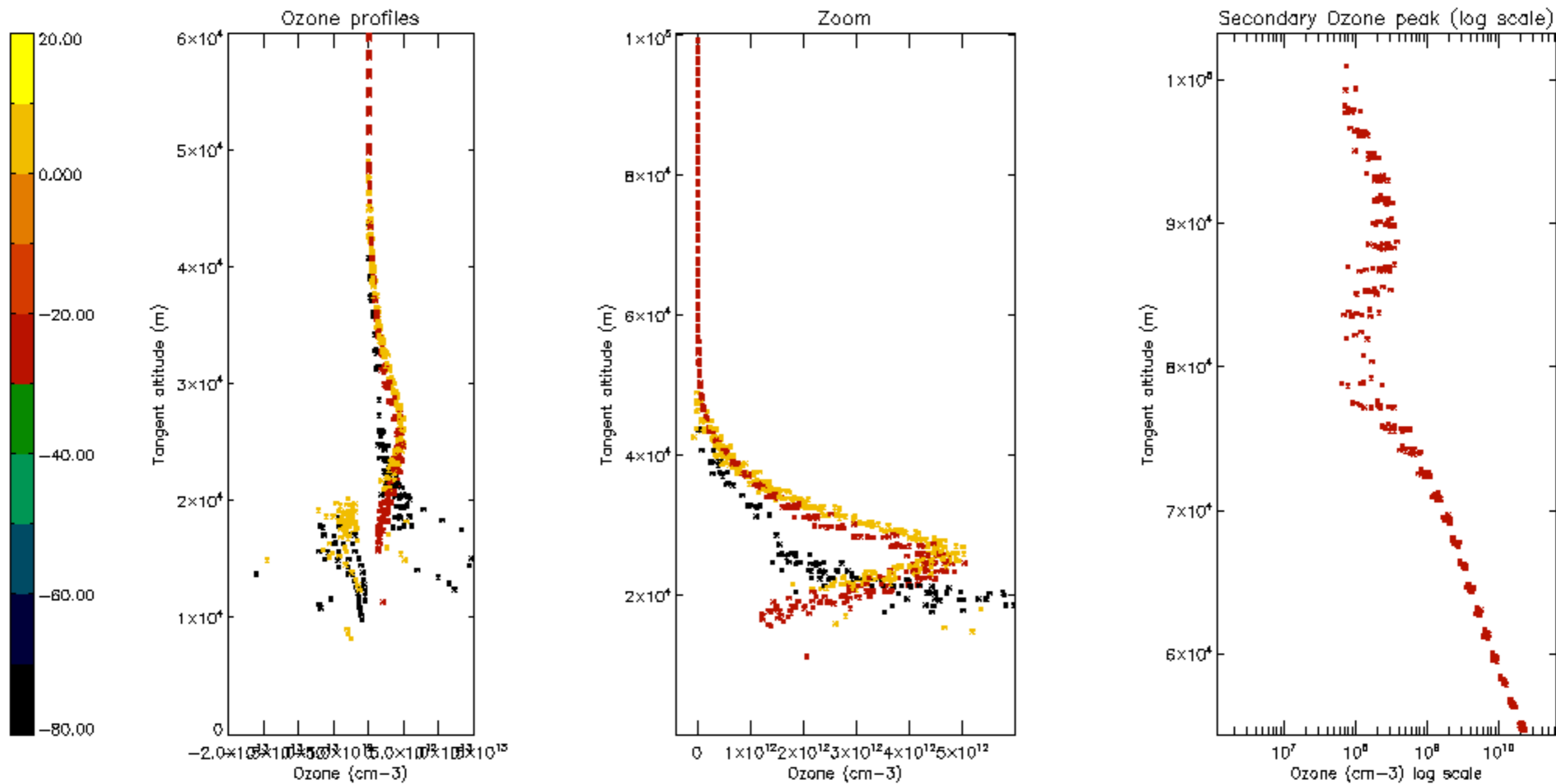
Percentage of star falling outside central band per profile

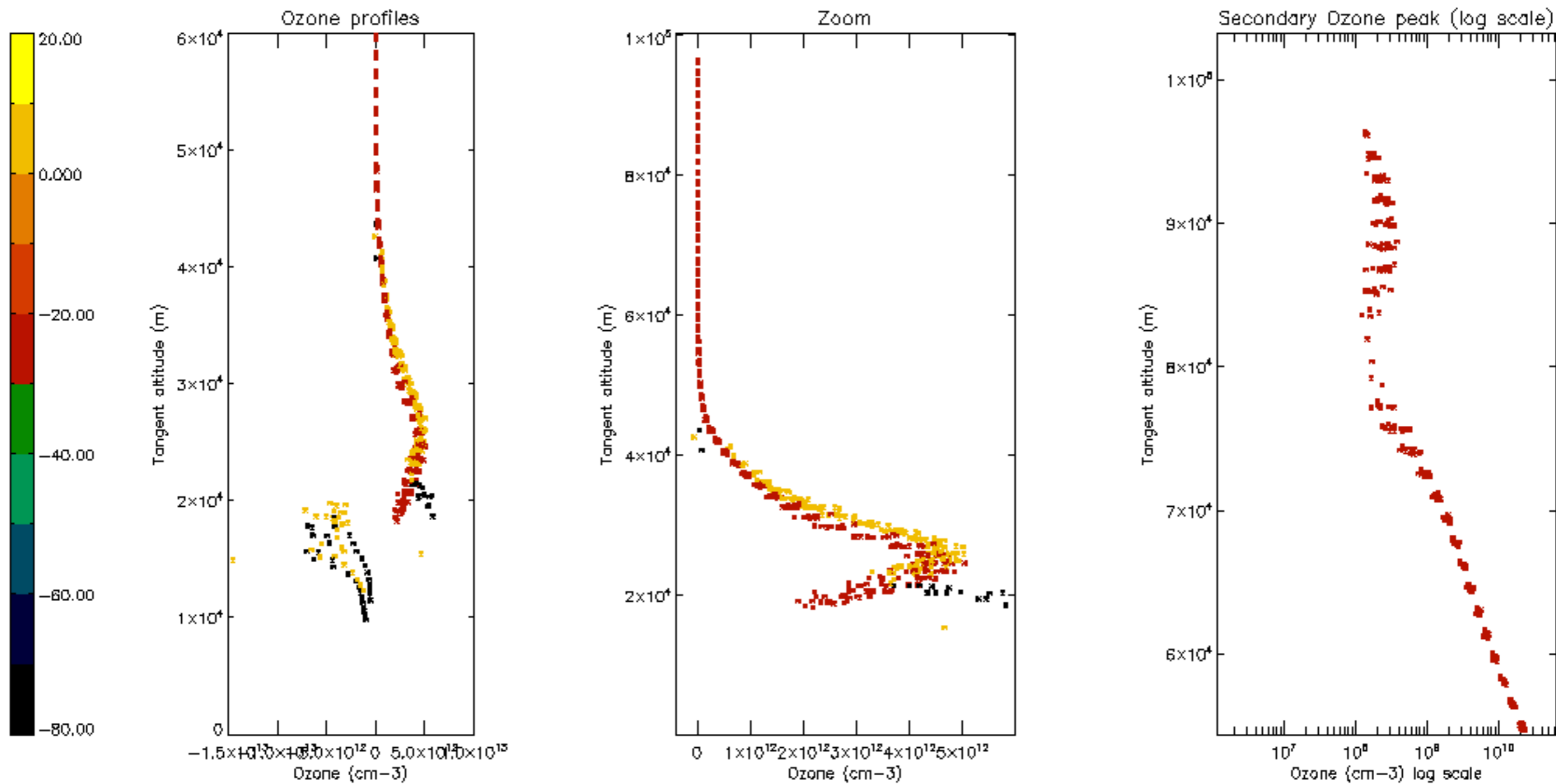


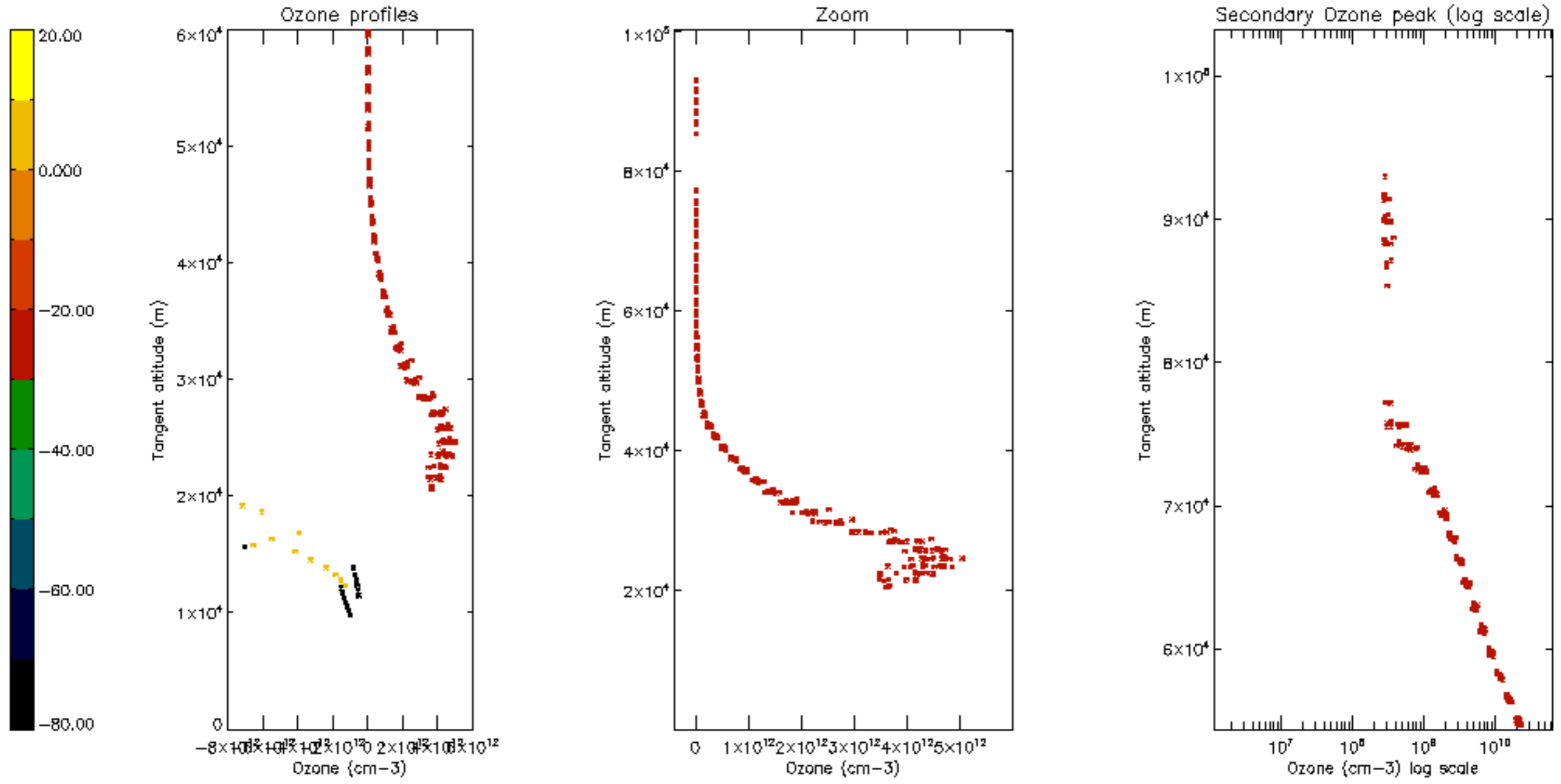
Percentage of saturation errors per profile

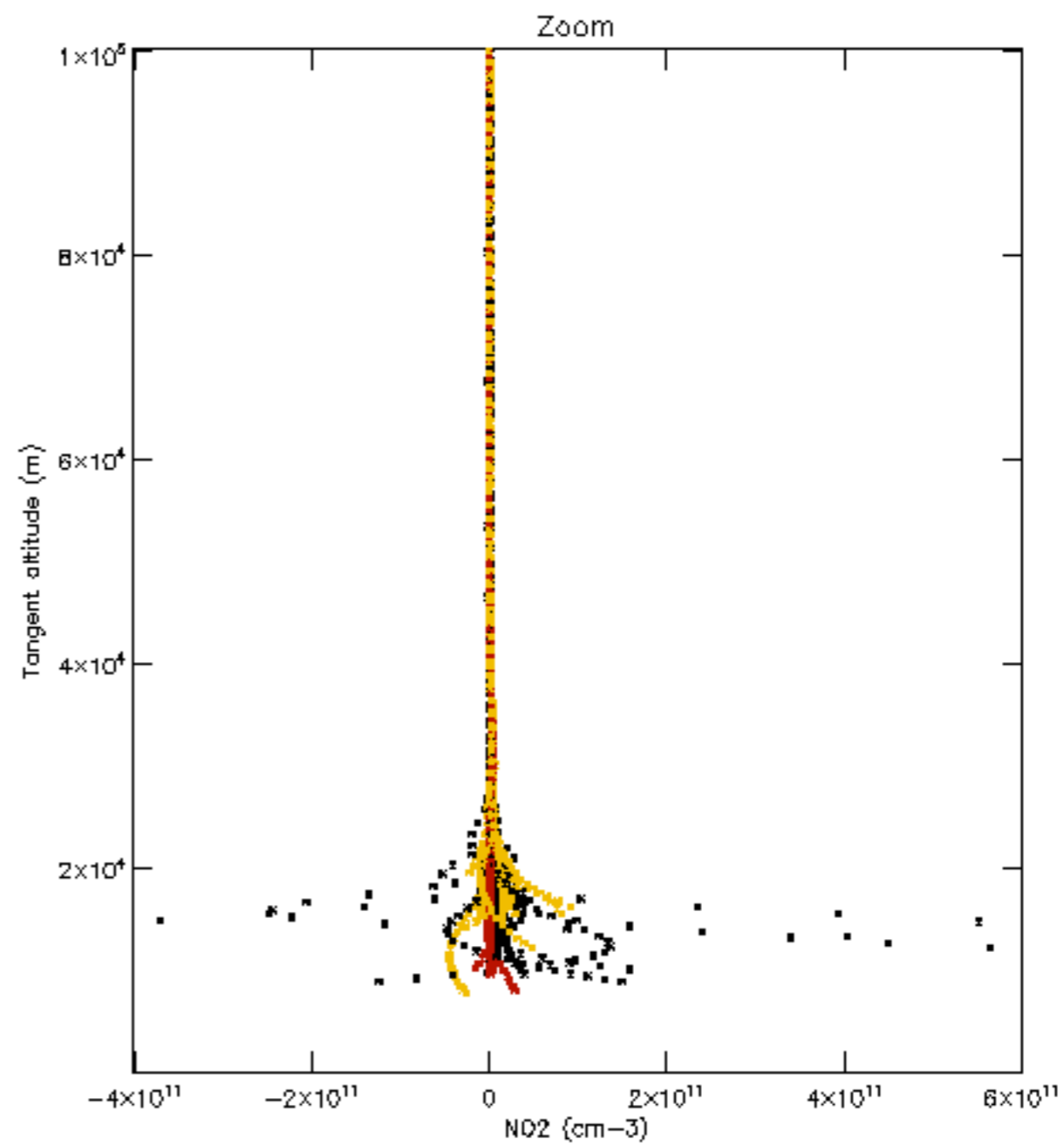
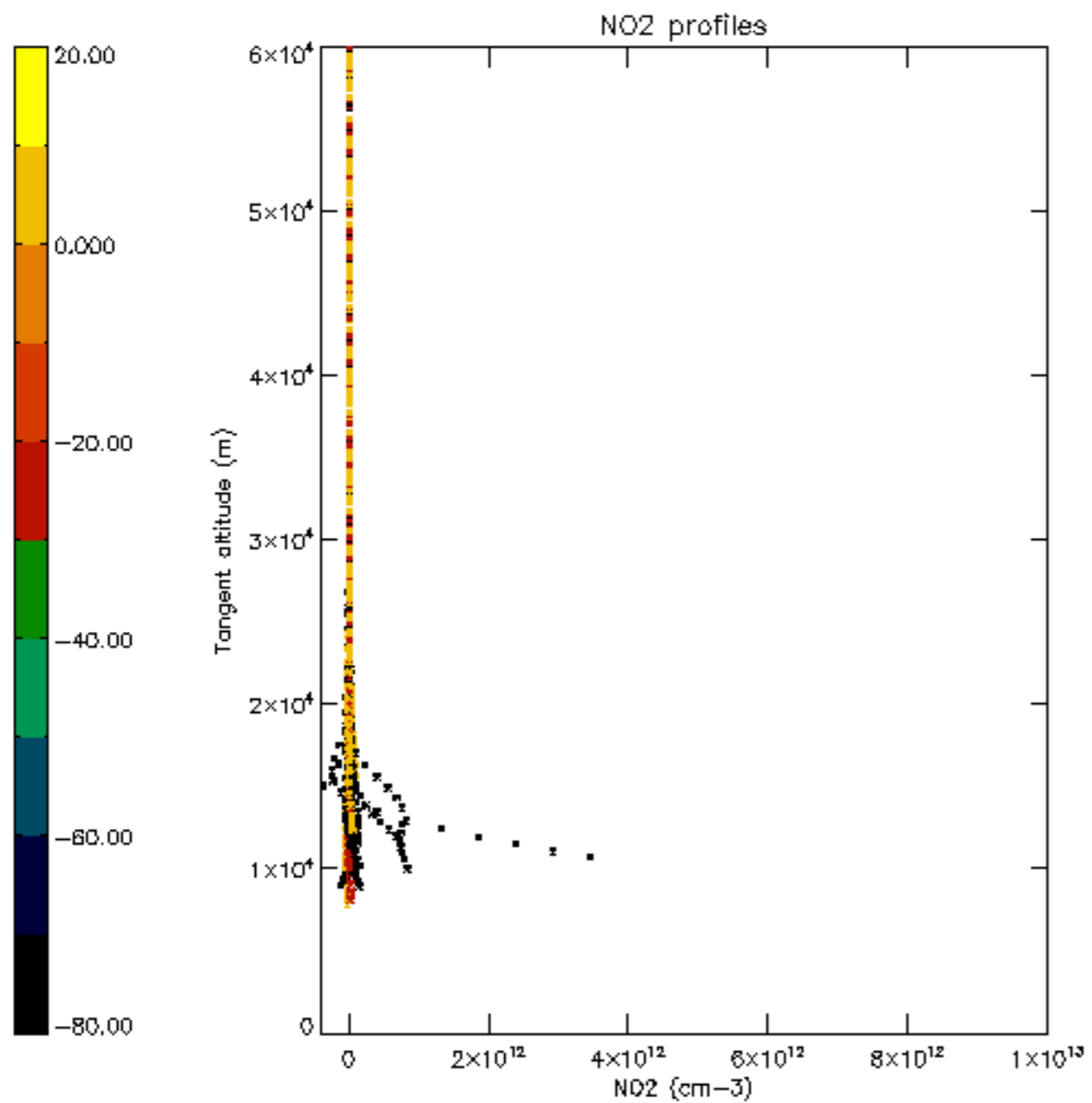


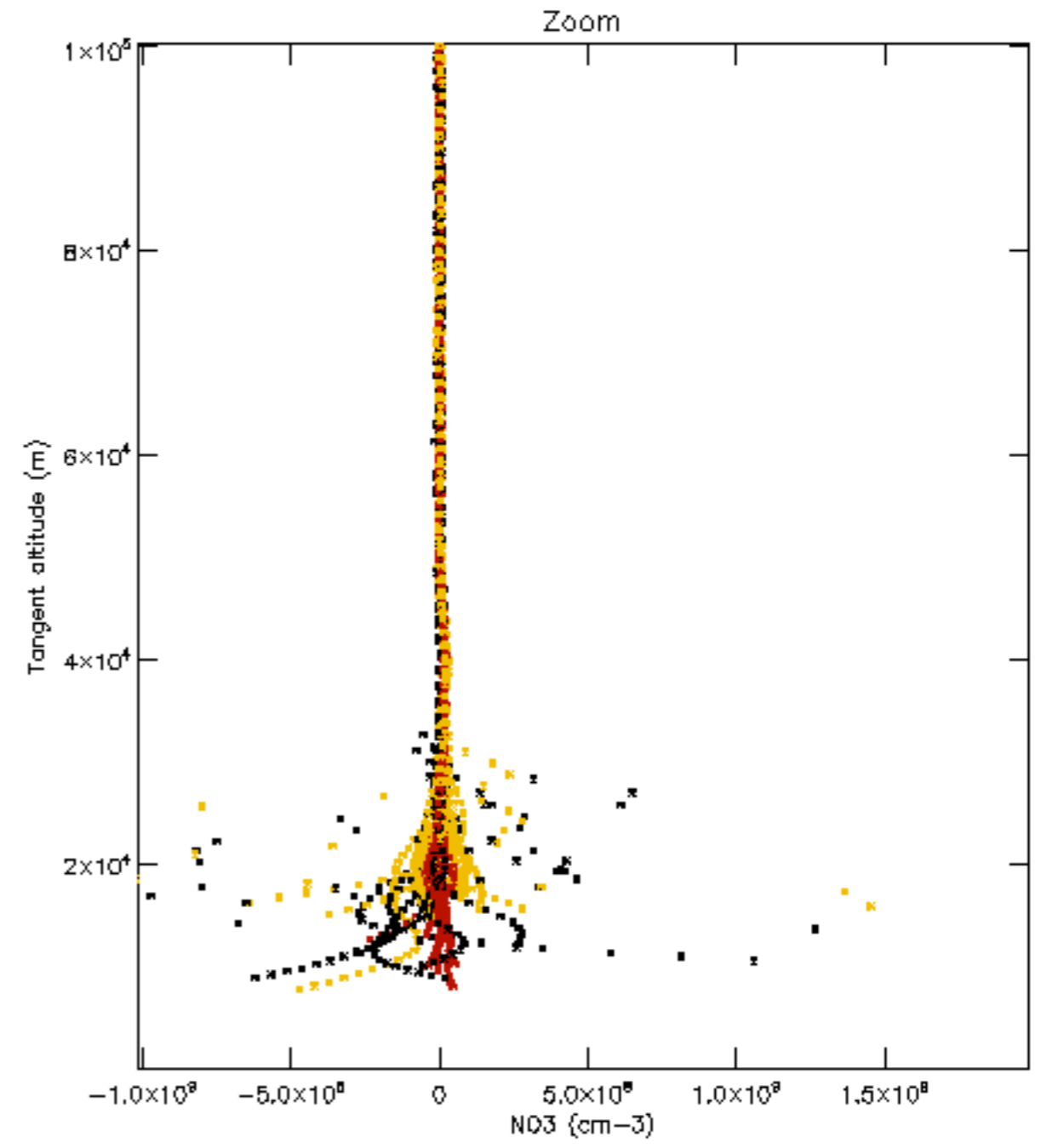
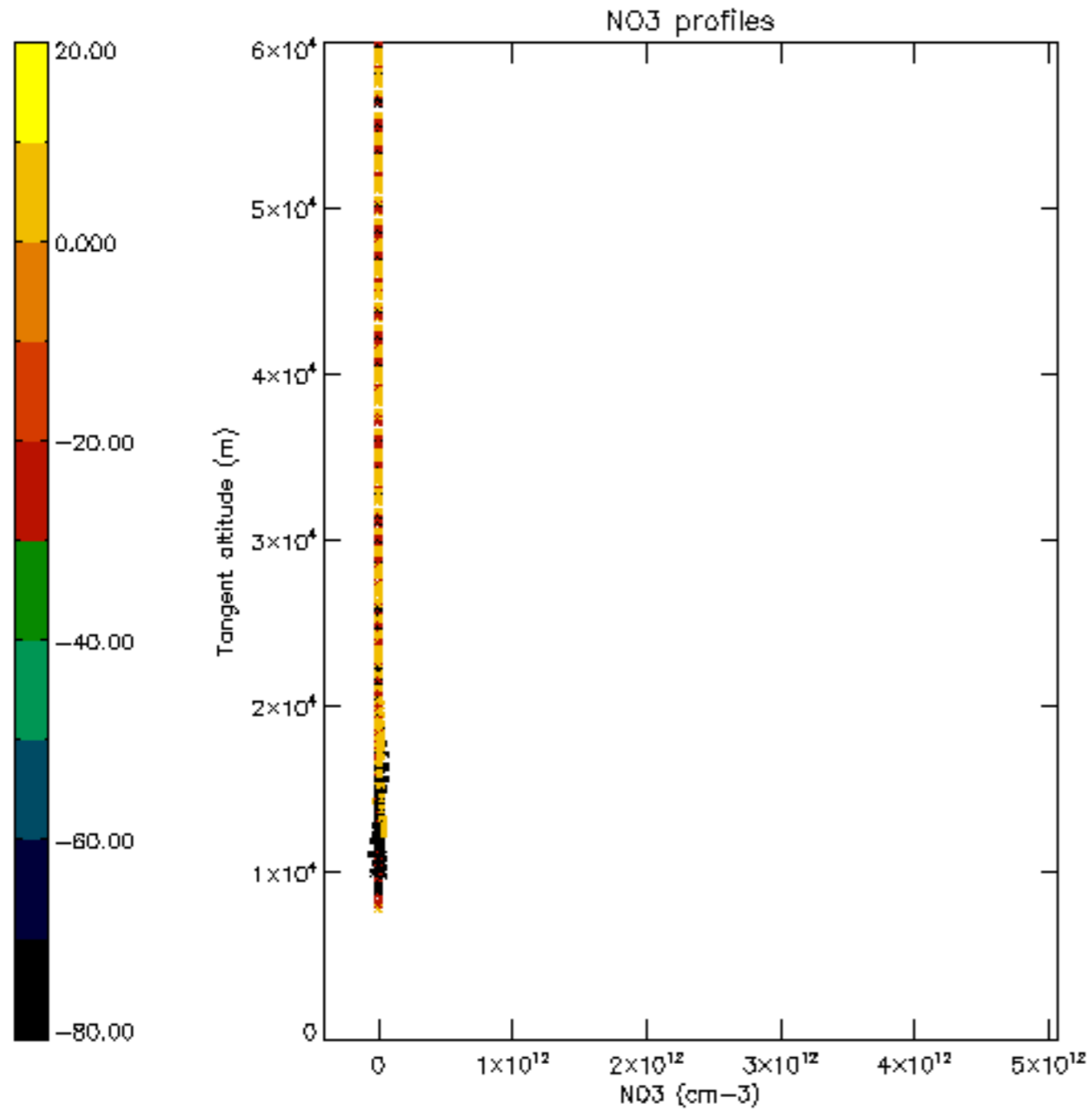


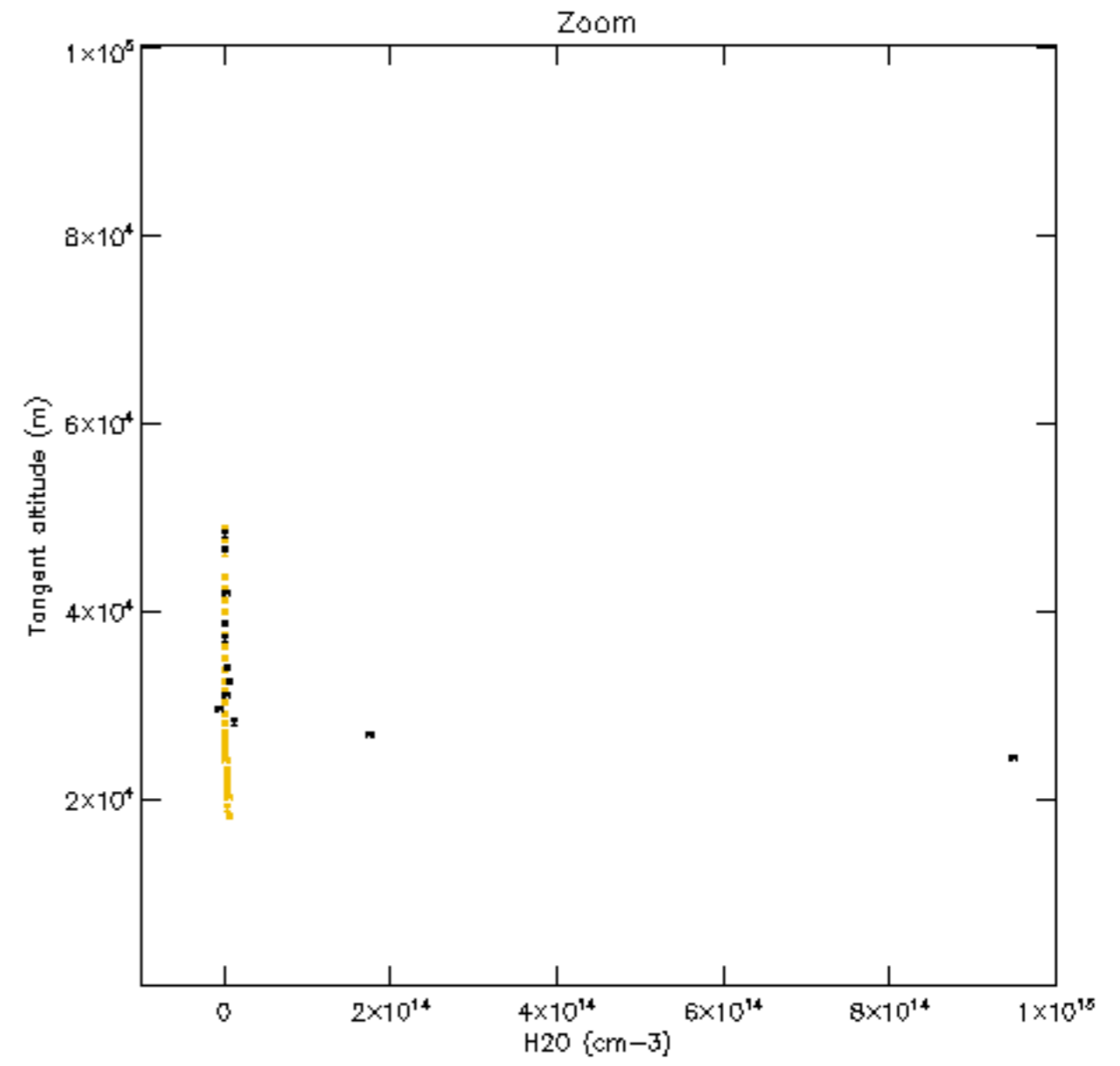
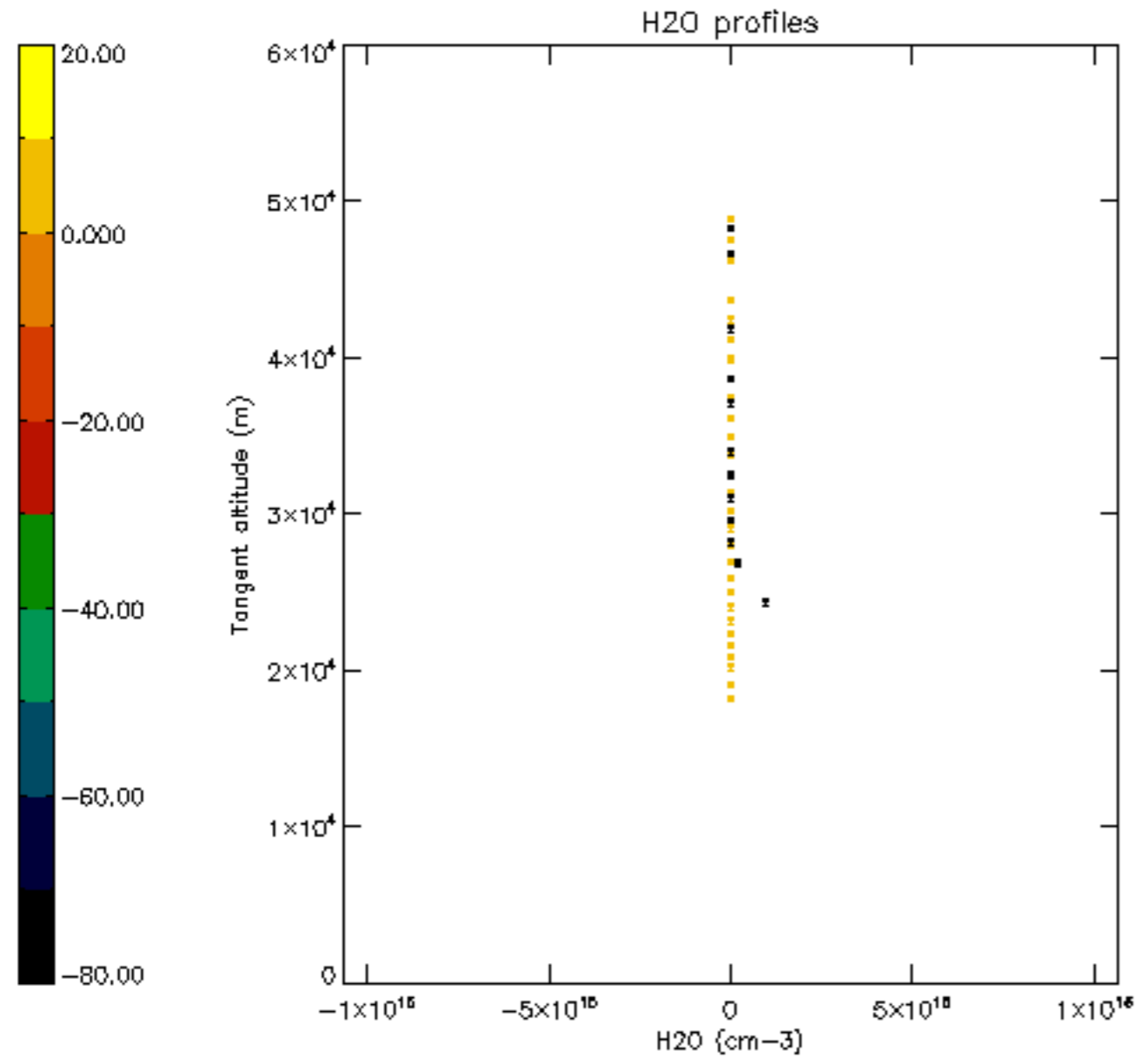


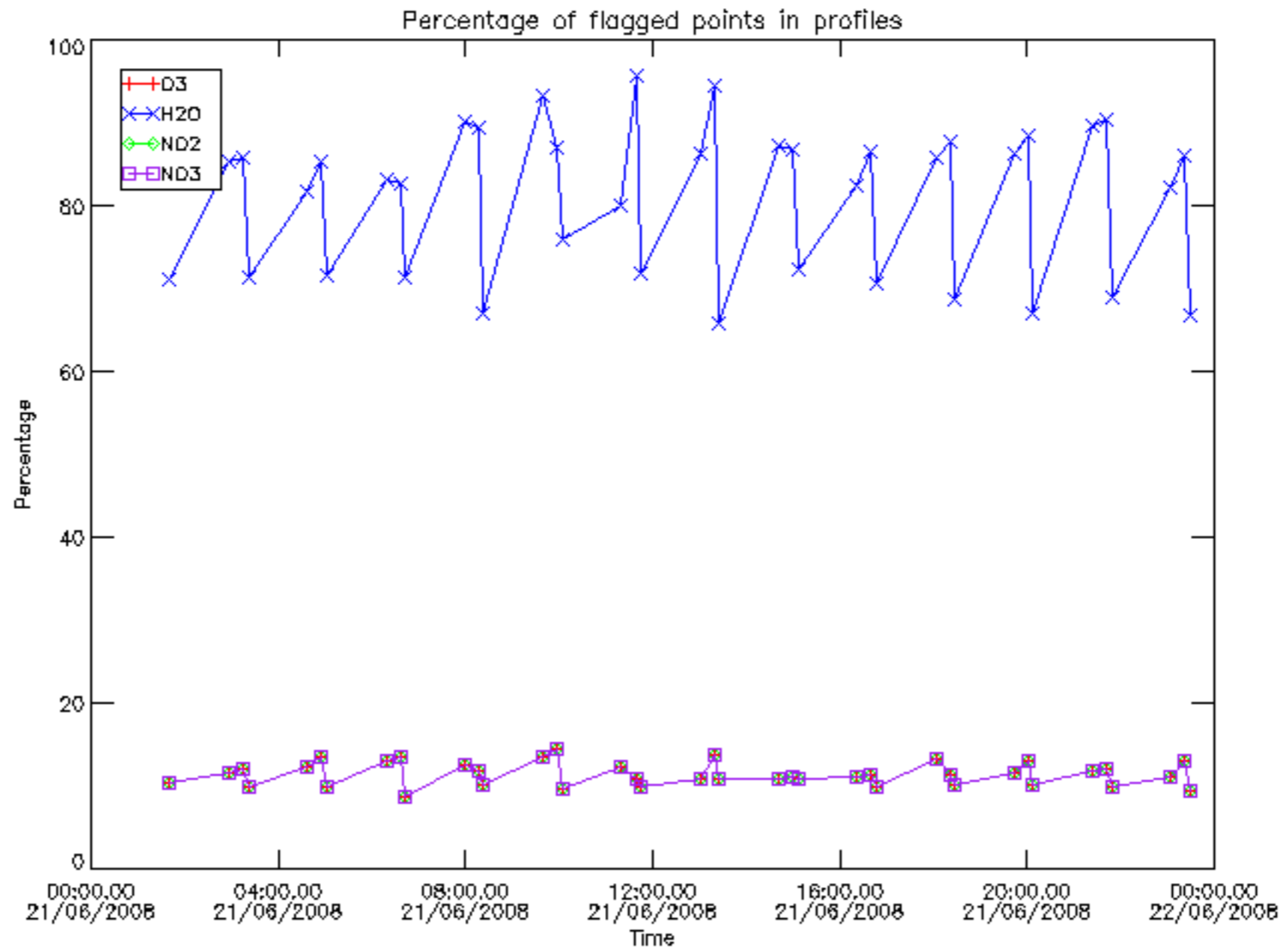




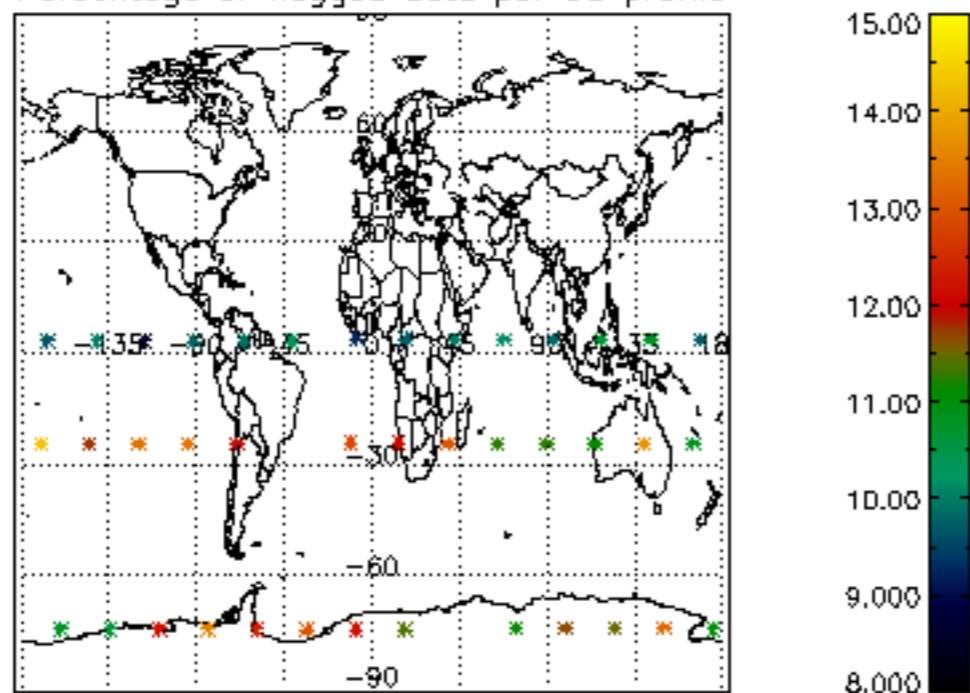




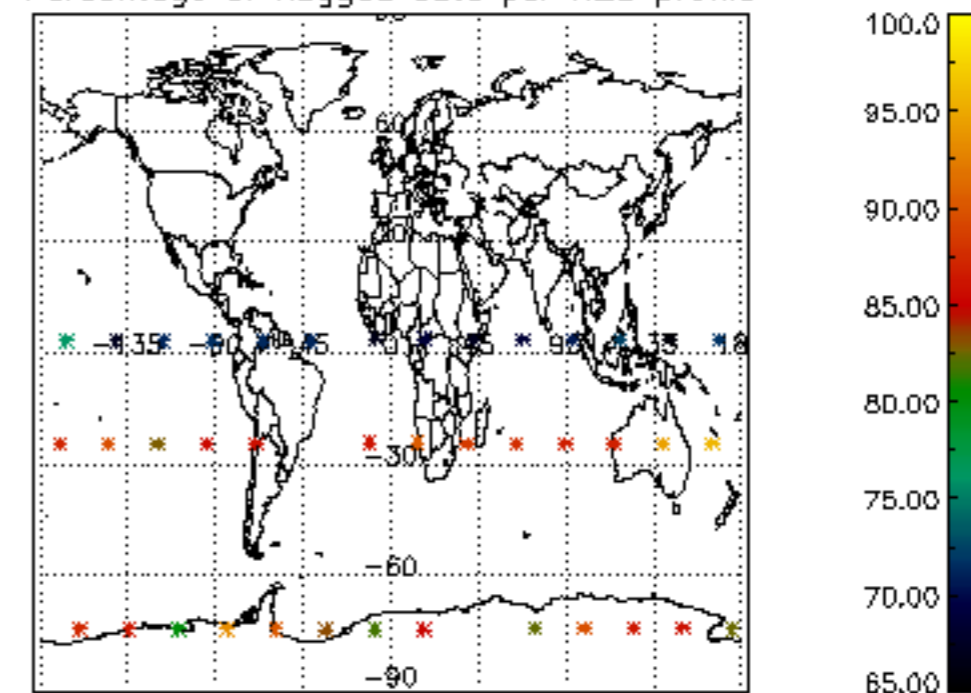




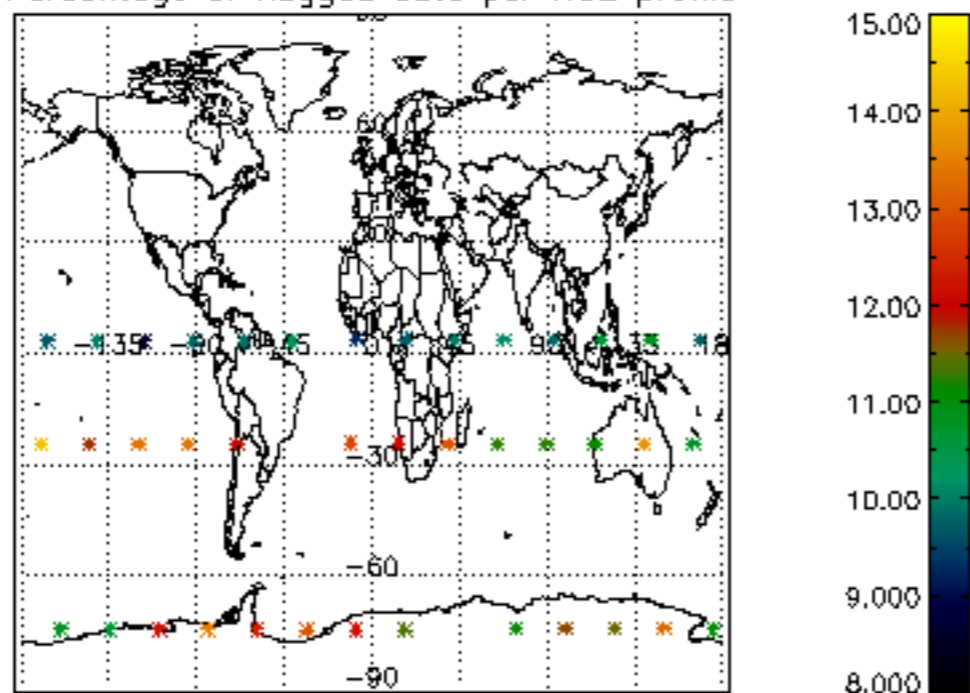
Percentage of flagged data per D3 profile



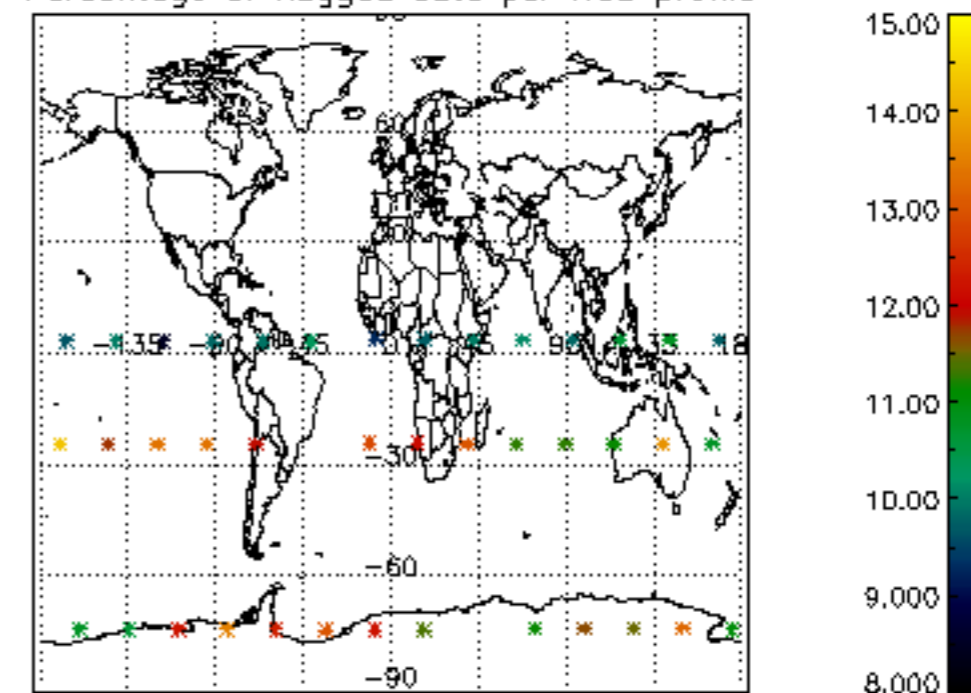
Percentage of flagged data per H2O profile

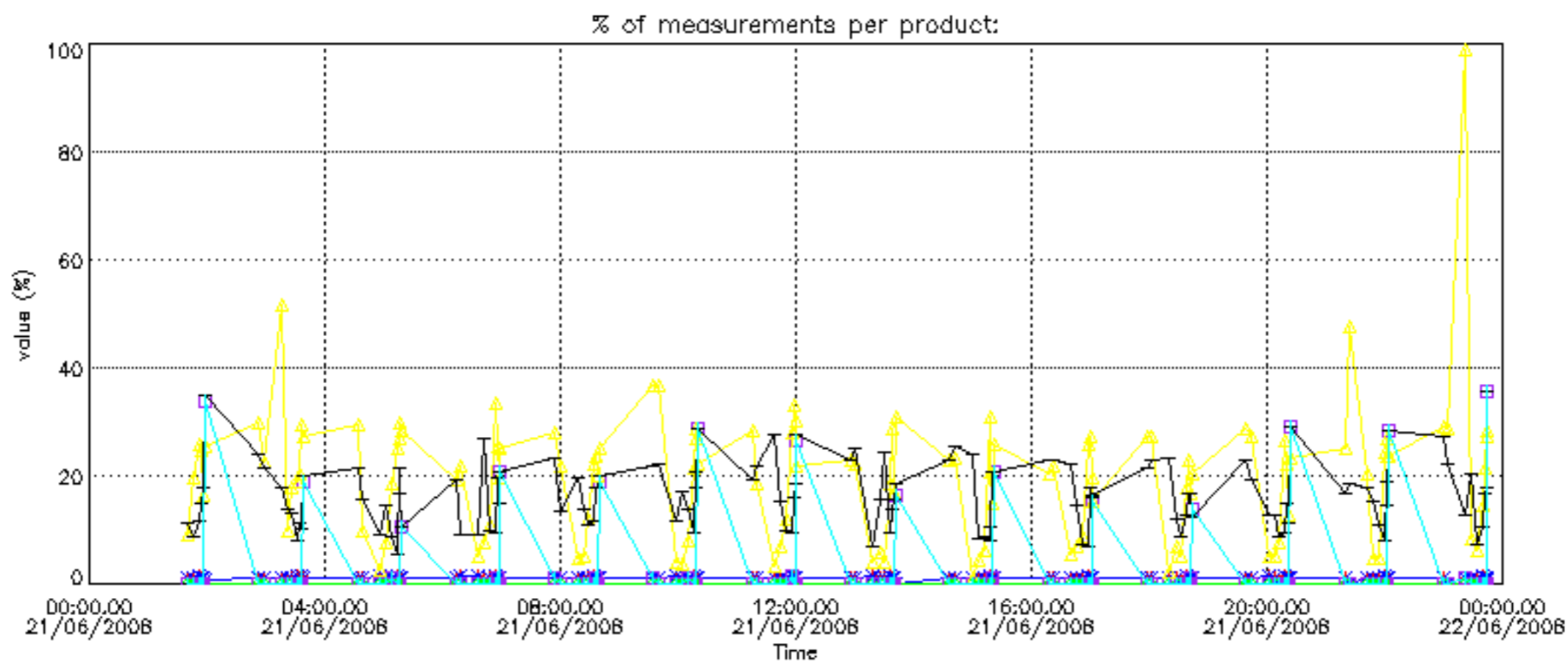


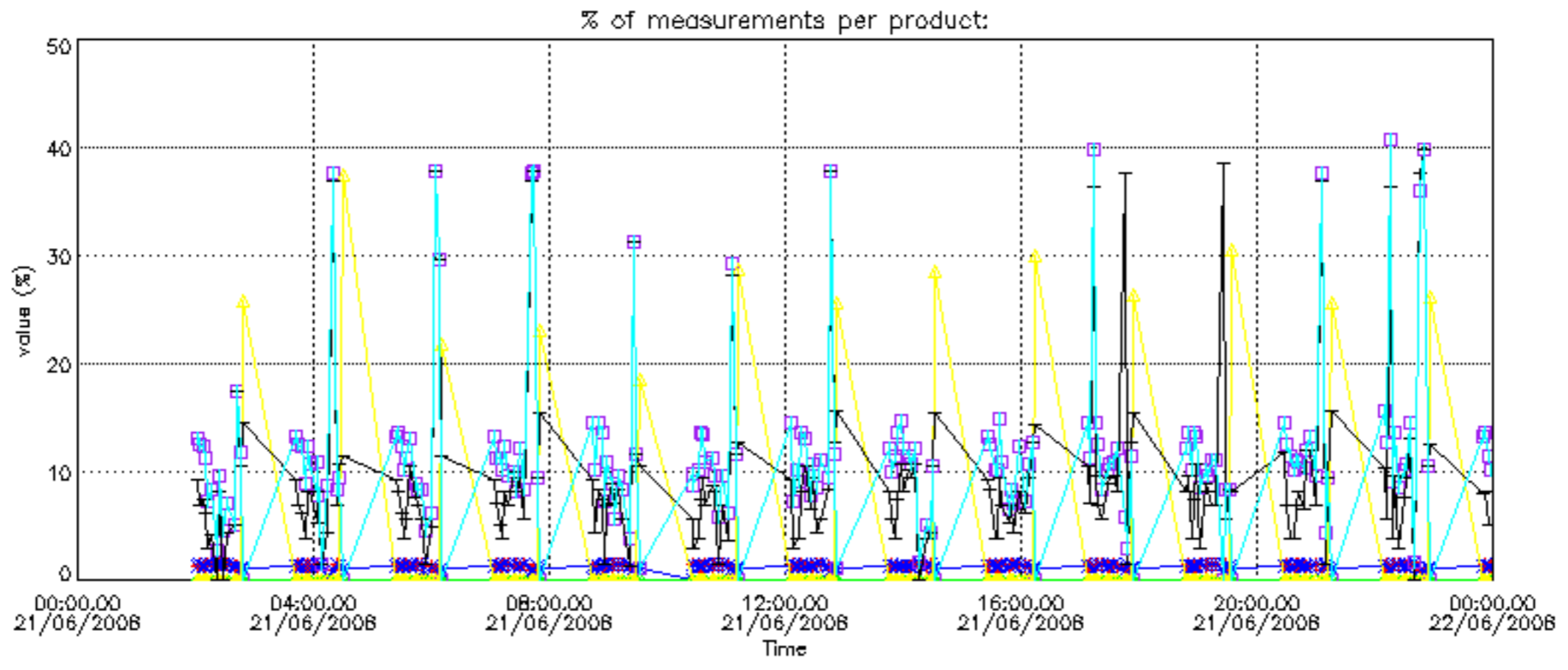
Percentage of flagged data per NO2 profile



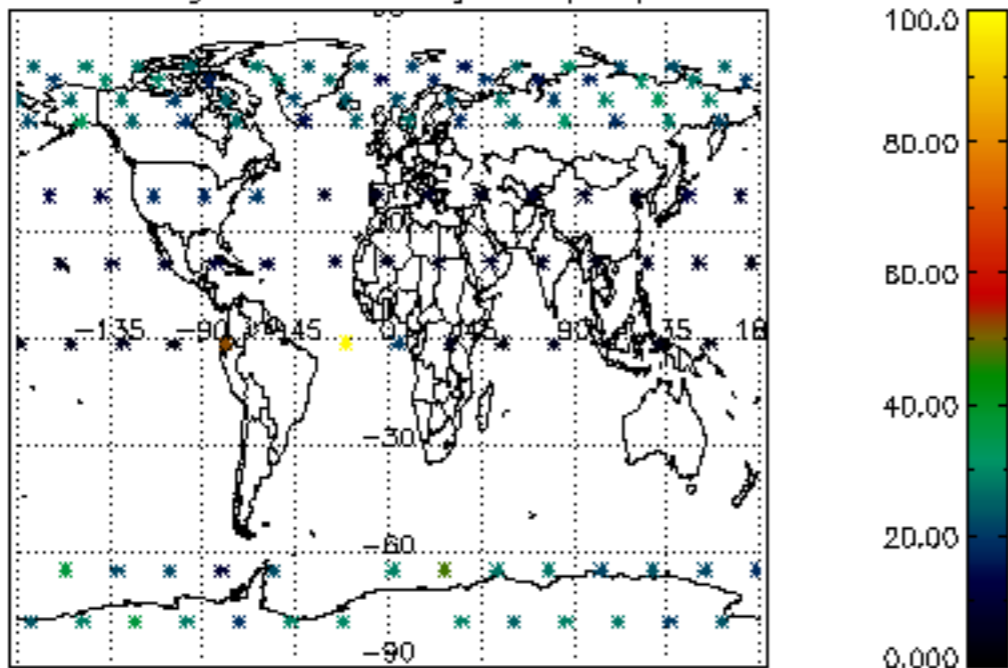
Percentage of flagged data per NO3 profile



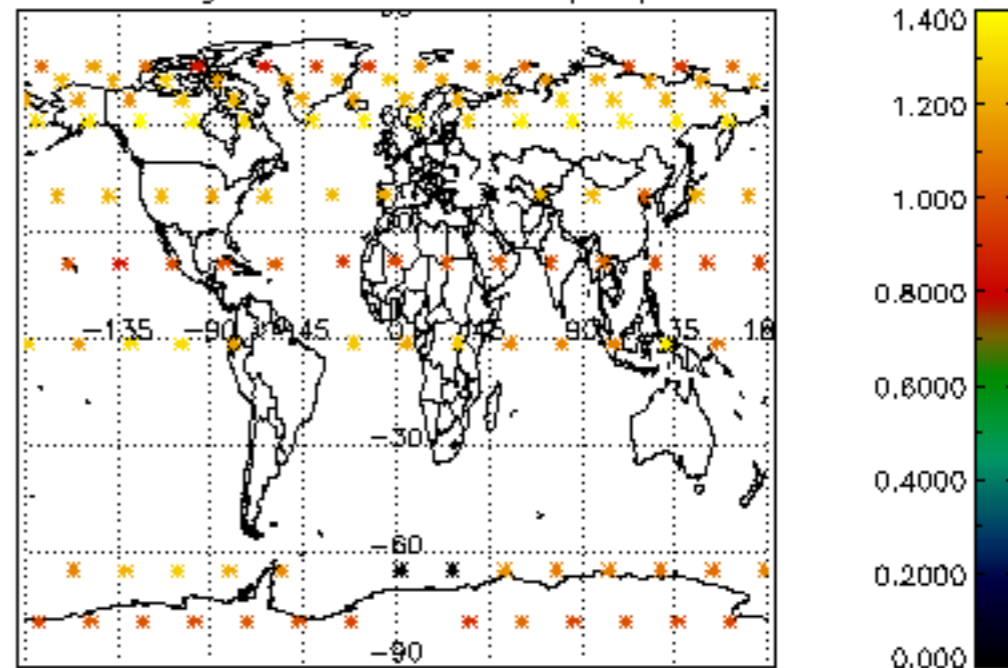




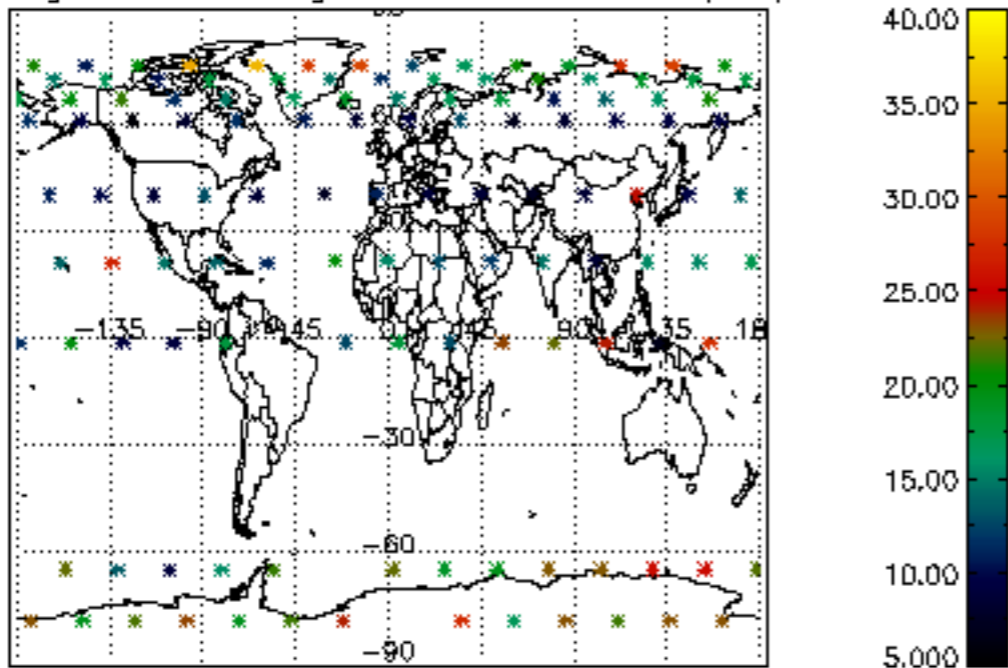
Percentage of cosmic ray hits per profile



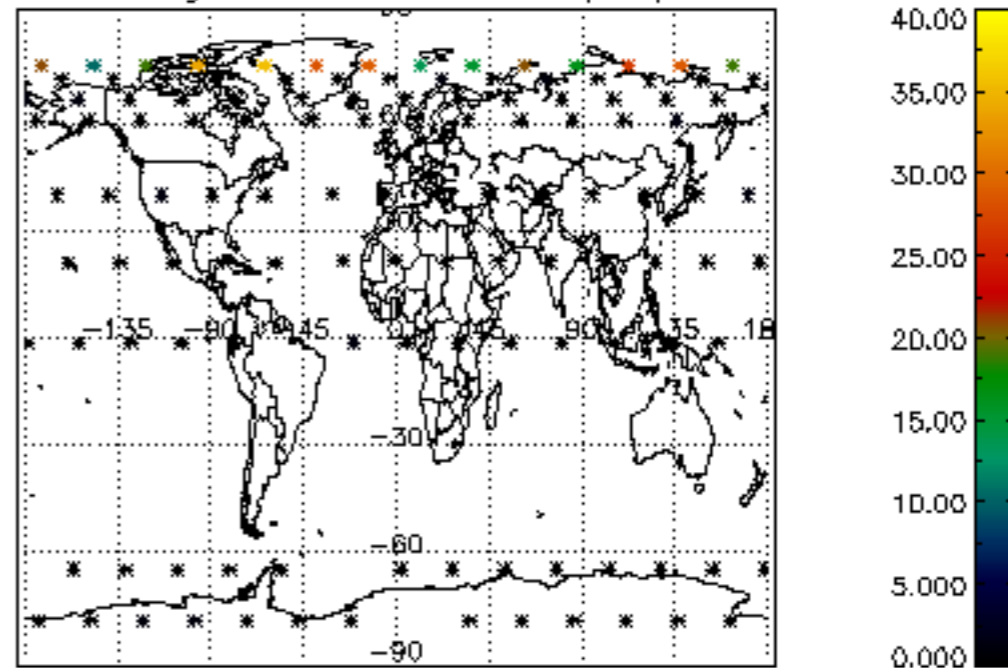
Percentage of datation errors per profile



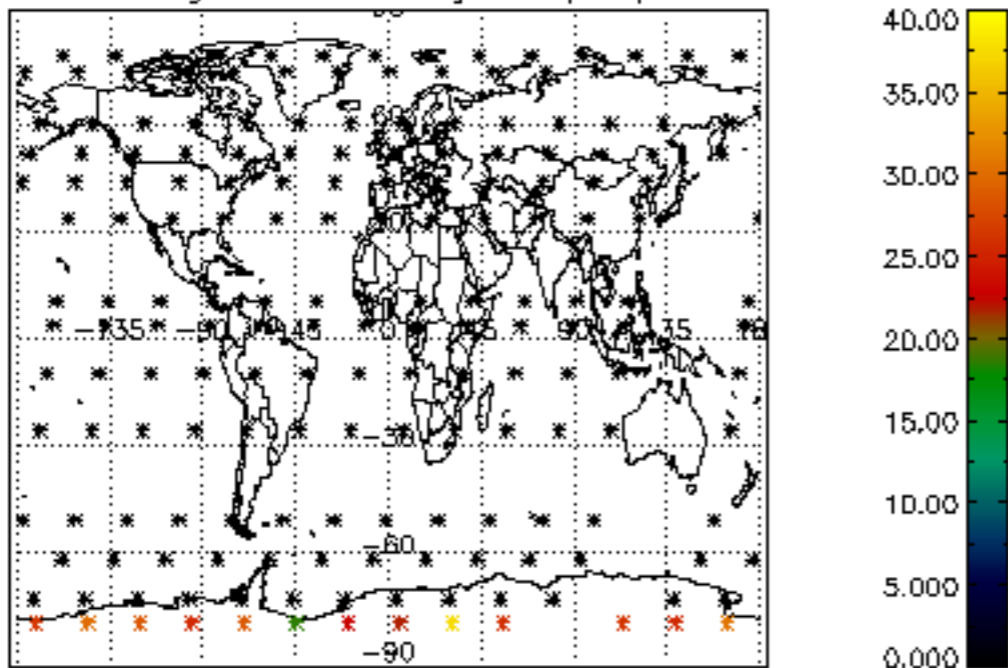
Percentage of star falling outside central band per profile



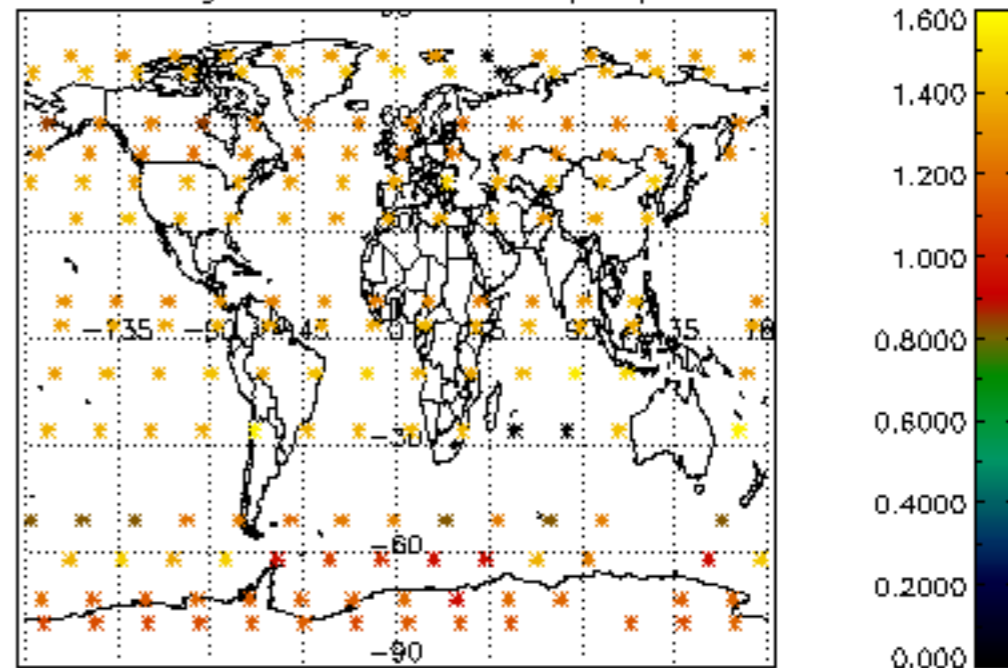
Percentage of saturation errors per profile



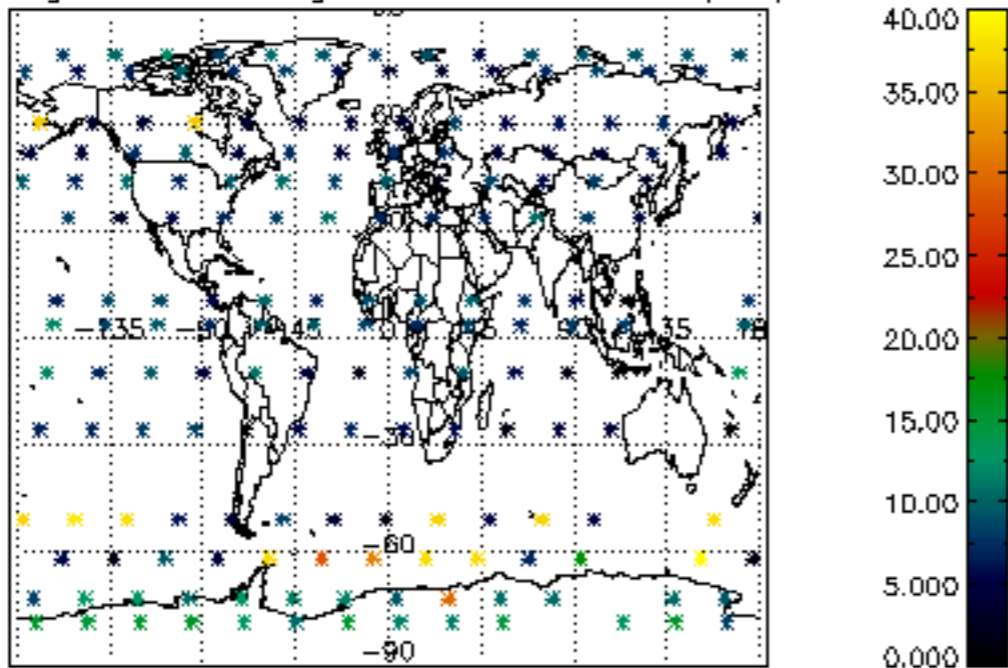
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

