

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	23APR2013 07:38:08
Data source version	GOMOS/6.01
Start time of products	13-10-2007 (13OCT2007 00:00:00)
Stop time of products	14-10-2007 (14OCT2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	238
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

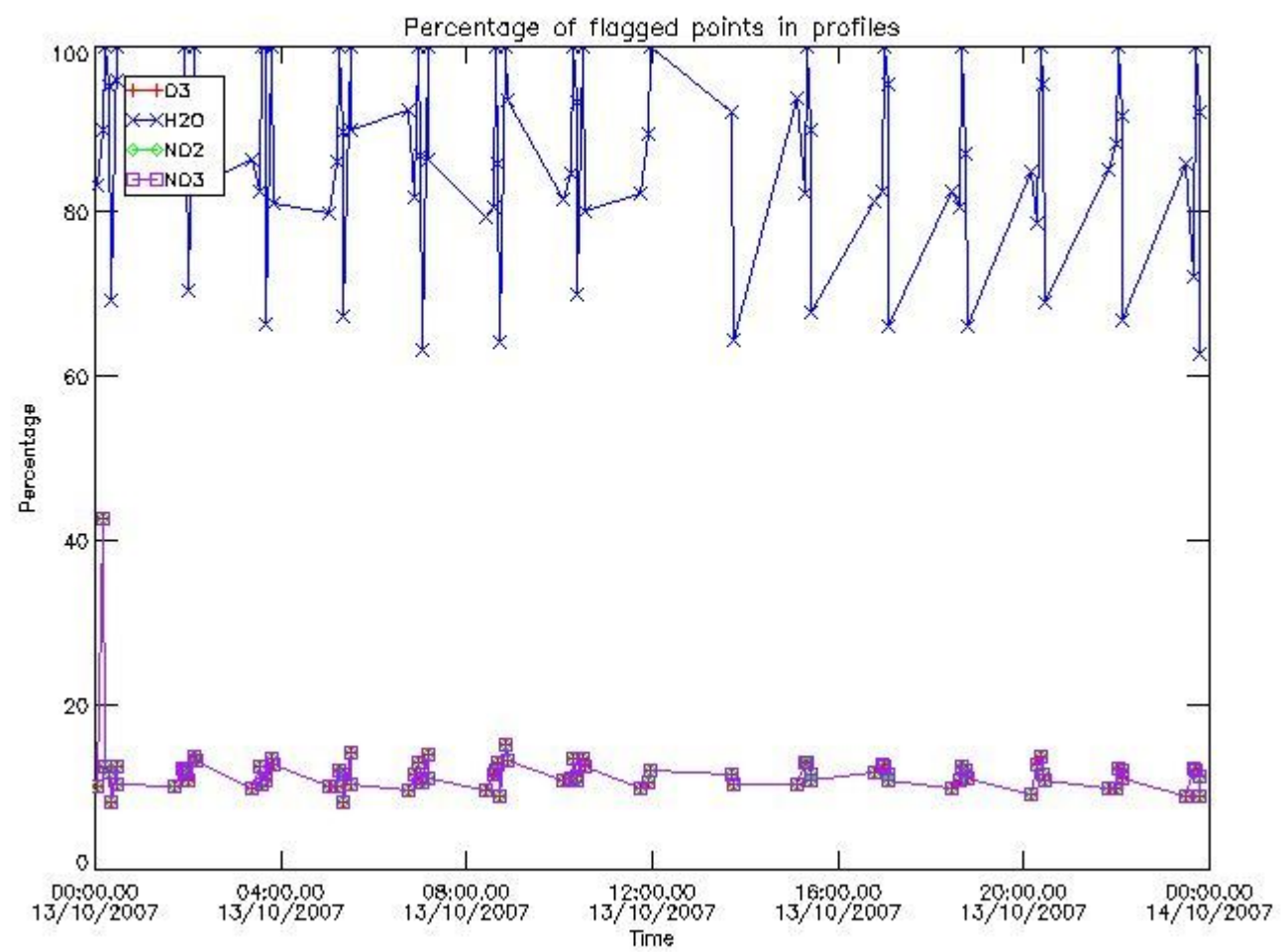
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20071013_000125_000000502062_00259_29371_3190.N1	13-OCT-2007 00:01:25	Dark	50.000	48	30Alp Hya	1.9770	4100.0	100	29371	No
2	GOM_NL__2PRFIN20071013_001101_000000452062_00259_29371_3191.N1	13-OCT-2007 00:11:01	Dark	45.000	65	Lam Vel	2.2040	4400.0	90	29371	No
3	GOM_NL__2PRFIN20071013_001404_000000412062_00259_29371_3192.N1	13-OCT-2007 00:14:04	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	29371	No
4	GOM_NL__2PRFIN20071013_001816_000000432062_00260_29372_3189.N1	13-OCT-2007 00:18:16	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	29372	No
5	GOM_NL__2PRFIN20071013_001938_000000622062_00260_29372_3190.N1	13-OCT-2007 00:19:38	Dark	62.000	2	Alp Car	-0.73600	7000.0	124	29372	No
6	GOM_NL__2PRFIN20071013_002748_000000412062_00260_29372_3191.N1	13-OCT-2007 00:27:48	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	29372	No
7	GOM_NL__2PRFIN20071013_002915_000000502062_00260_29372_3192.N1	13-OCT-2007 00:29:15	Dark	49.500	9	Alp Eri	0.45300	24000.	99	29372	No
8	GOM_NL__2PRFIN20071013_004058_000000452062_00260_29372_3193.N1	13-OCT-2007 00:40:58	Straylight	45.000	52	16Bet Cet	2.0370	4500.0	90	29372	No
9	GOM_NL__2PRFIN20071013_005044_000000372062_00260_29372_3194.N1	13-OCT-2007 00:50:44	Bright	37.000	140	88Gam Peg	2.8340	26000.	74	29372	No
10	GOM_NL__2PRFIN20071013_005444_000000372062_00260_29372_3195.N1	13-OCT-2007 00:54:44	Bright	36.500	58	21Alp And	2.0730	11000.	73	29372	No
11	GOM_NL__2PRFIN20071013_010254_000000392062_00260_29372_3196.N1	13-OCT-2007 01:02:54	Bright	39.000	68	18Alp Cas	2.2250	4500.0	78	29372	No
12	GOM_NL__2PRFIN20071013_010416_000000382062_00260_29372_3197.N1	13-OCT-2007 01:04:16	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	29372	No
13	GOM_NL__2PRFIN20071013_011144_000000362062_00260_29372_3198.N1	13-OCT-2007 01:11:44	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29372	No
14	GOM_NL__2PRFIN20071013_011956_000000382062_00260_29372_3199.N1	13-OCT-2007 01:19:56	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	29372	No
15	GOM_NL__2PRFIN20071013_012129_000000352062_00260_29372_3200.N1	13-OCT-2007 01:21:29	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	29372	No
16	GOM_NL__2PRFIN20071013_012450_000000342062_00260_29372_3201.N1	13-OCT-2007 01:24:50	Bright	33.500	174	52Psi UMa	3.0040	4400.0	67	29372	No
17	GOM_NL__2PRFIN20071013_013141_000000592062_00260_29372_3202.N1	13-OCT-2007 01:31:41	Bright	59.000	166	17Eps Leo	2.9800	6000.0	118	29372	No
18	GOM_NL__2PRFIN20071013_013453_000000392062_00260_29372_3203.N1	13-OCT-2007 01:34:53	Bright	39.000	22	32Alp Leo	1.3600	15200.	78	29372	No
19	GOM_NL__2PRFIN20071013_014201_000000512062_00260_29372_3204.N1	13-OCT-2007 01:42:01	Dark	50.500	48	30Alp Hya	1.9770	4100.0	101	29372	No
20	GOM_NL__2PRFIN20071013_015137_000000422062_00260_29372_3205.N1	13-OCT-2007 01:51:37	Dark	41.500	65	Lam Vel	2.2040	4400.0	83	29372	No
21	GOM_NL__2PRFIN20071013_015441_000000432062_00260_29372_3206.N1	13-OCT-2007 01:54:41	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	29372	No
22	GOM_NL__2PRFIN20071013_015852_000000432062_00261_29373_3203.N1	13-OCT-2007 01:58:52	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	29373	No
23	GOM_NL__2PRFIN20071013_020015_000000482062_00261_29373_3204.N1	13-OCT-2007 02:00:15	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	29373	No
24	GOM_NL__2PRFIN20071013_020824_000000372062_00261_29373_3205.N1	13-OCT-2007 02:08:24	Dark	37.000	143	Alp Hyi	2.8570	7200.0	74	29373	No
25	GOM_NL__2PRFIN20071013_020951_000000392062_00261_29373_3206.N1	13-OCT-2007 02:09:51	Dark	38.500	9	Alp Eri	0.45300	24000.	77	29373	No
26	GOM_NL__2PRFIN20071013_022134_000000482062_00261_29373_3207.N1	13-OCT-2007 02:21:34	Straylight	47.500	52	16Bet Cet	2.0370	4500.0	95	29373	No
27	GOM_NL__2PRFIN20071013_023120_000000362062_00261_29373_3208.N1	13-OCT-2007 02:31:20	Bright	36.000	140	88Gam Peg	2.8340	26000.	72	29373	No
28	GOM_NL__2PRFIN20071013_023520_000000372062_00261_29373_3209.N1	13-OCT-2007 02:35:20	Bright	37.000	58	21Alp And	2.0730	11000.	74	29373	No
29	GOM_NL__2PRFIN20071013_024329_000000372062_00261_29373_3210.N1	13-OCT-2007 02:43:29	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	29373	No
30	GOM_NL__2PRFIN20071013_024452_000000372062_00261_29373_3211.N1	13-OCT-2007 02:44:52	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	29373	No
31	GOM_NL__2PRFIN20071013_025220_000000342062_00261_29373_3212.N1	13-OCT-2007 02:52:20	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	29373	No
32	GOM_NL__2PRFIN20071013_030032_000000382062_00261_29373_3213.N1	13-OCT-2007 03:00:32	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	29373	No
33	GOM_NL__2PRFIN20071013_030205_000000522062_00261_29373_3214.N1	13-OCT-2007 03:02:05	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	29373	No
34	GOM_NL__2PRFIN20071013_030525_000000522062_00261_29373_3215.N1	13-OCT-2007 03:05:25	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	29373	No
35	GOM_NL__2PRFIN20071013_031217_000000402062_00261_29373_3216.N1	13-OCT-2007 03:12:17	Bright	39.500	166	17Eps Leo	2.9800	6000.0	79	29373	No
36	GOM_NL__2PRFIN20071013_031529_000000392062_00261_29373_3217.N1	13-OCT-2007 03:15:29	Bright	38.500	22	32Alp Leo	1.3600	15200.	77	29373	No
37	GOM_NL__2PRFIN20071013_032238_000000522062_00261_29373_3218.N1	13-OCT-2007 03:22:38	Dark	51.500	48	30Alp Hya	1.9770	4100.0	103	29373	No
38	GOM_NL__2PRFIN20071013_033214_000000412062_00261_29373_3219.N1	13-OCT-2007 03:32:14	Dark	40.500	65	Lam Vel	2.2040	4400.0	81	29373	No
39	GOM_NL__2PRFIN20071013_033517_000000492062_00261_29373_3220.N1	13-OCT-2007 03:35:17	Dark	49.000	34	Gam2Vel	1.7930	23000.	98	29373	No
40	GOM_NL__2PRFIN20071013_033929_000000442062_00262_29374_3217.N1	13-OCT-2007 03:39:29	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	29374	No
41	GOM_NL__2PRFIN20071013_034051_000000472062_00262_29374_3218.N1	13-OCT-2007 03:40:51	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	29374	No
42	GOM_NL__2PRFIN20071013_034900_000000382062_00262_29374_3219.N1	13-OCT-2007 03:49:00	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	29374	No

220	GOM_NL__2PRFIN20071013_220736_000000502062_00273_29385_3390.N1	13-OCT-2007 22:07:36	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	29385	No
221	GOM_NL__2PRFIN20071013_221933_000000472062_00273_29385_3391.N1	13-OCT-2007 22:19:33	Straylight	46.500	157	The1Eri	2.9060	9300.0	93	29385	No
222	GOM_NL__2PRFIN20071013_222848_000000442062_00273_29385_3392.N1	13-OCT-2007 22:28:48	Straylight	44.000	52	16Bet Cet	2.0370	4500.0	88	29385	No
223	GOM_NL__2PRFIN20071013_223831_000000352062_00273_29385_3393.N1	13-OCT-2007 22:38:31	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	29385	No
224	GOM_NL__2PRFIN20071013_224230_000000372062_00273_29385_3394.N1	13-OCT-2007 22:42:30	Bright	36.500	58	21Alp And	2.0730	11000.	73	29385	No
225	GOM_NL__2PRFIN20071013_224512_000000422062_00273_29385_3395.N1	13-OCT-2007 22:45:12	Bright	41.500	53	43Bet And	2.0480	3300.0	83	29385	No
226	GOM_NL__2PRFIN20071013_225038_000000392062_00273_29385_3396.N1	13-OCT-2007 22:50:38	Bright	39.000	68	18Alp Cas	2.2250	4500.0	78	29385	No
227	GOM_NL__2PRFIN20071013_225201_000000382062_00273_29385_3397.N1	13-OCT-2007 22:52:01	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	29385	No
228	GOM_NL__2PRFIN20071013_225931_000000362062_00273_29385_3398.N1	13-OCT-2007 22:59:31	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29385	No
229	GOM_NL__2PRFIN20071013_230744_000000372062_00273_29385_3399.N1	13-OCT-2007 23:07:44	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	29385	No
230	GOM_NL__2PRFIN20071013_230917_000000352062_00273_29385_3400.N1	13-OCT-2007 23:09:17	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	29385	No
231	GOM_NL__2PRFIN20071013_231238_000000522062_00273_29385_3401.N1	13-OCT-2007 23:12:38	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	29385	No
232	GOM_NL__2PRFIN20071013_231931_000000512062_00273_29385_3402.N1	13-OCT-2007 23:19:31	Bright	51.000	166	17Eps Leo	2.9800	6000.0	102	29385	No
233	GOM_NL__2PRFIN20071013_232245_000000562062_00273_29385_3403.N1	13-OCT-2007 23:22:45	Bright	56.000	22	32Alp Leo	1.3600	15200.	112	29385	No
234	GOM_NL__2PRFIN20071013_232957_000000572062_00273_29385_3404.N1	13-OCT-2007 23:29:57	Dark	56.500	48	30Alp Hya	1.9770	4100.0	113	29385	No
235	GOM_NL__2PRFIN20071013_233932_000000422062_00273_29385_3405.N1	13-OCT-2007 23:39:32	Dark	41.500	65	Lam Vel	2.2040	4400.0	83	29385	No
236	GOM_NL__2PRFIN20071013_234237_000000422062_00273_29385_3406.N1	13-OCT-2007 23:42:37	Dark	42.000	34	Gam2Vel	1.7930	23000.	84	29385	No
237	GOM_NL__2PRFIN20071013_234650_000000452062_00274_29386_3413.N1	13-OCT-2007 23:46:50	Dark	45.000	161	Tau Pup	2.9310	4500.0	90	29386	No
238	GOM_NL__2PRFIN20071013_234812_000000572062_00274_29386_3414.N1	13-OCT-2007 23:48:12	Dark	56.500	2	Alp Car	-0.73600	7000.0	113	29386	No

3. Quality information per product

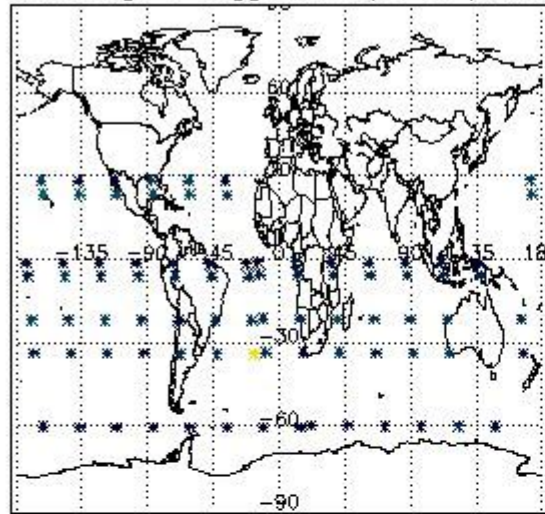
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

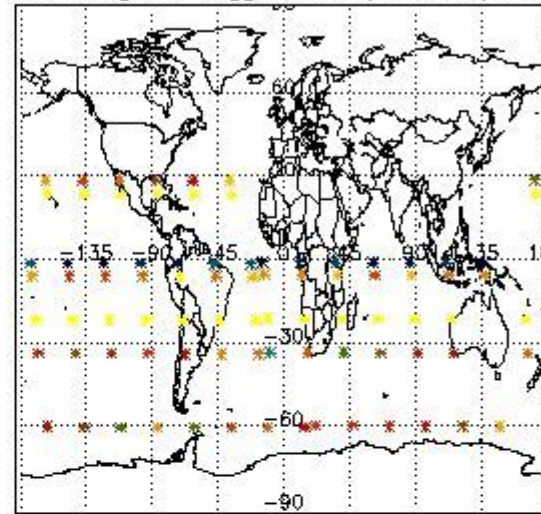


3.2 Plot quality information per product (world map)

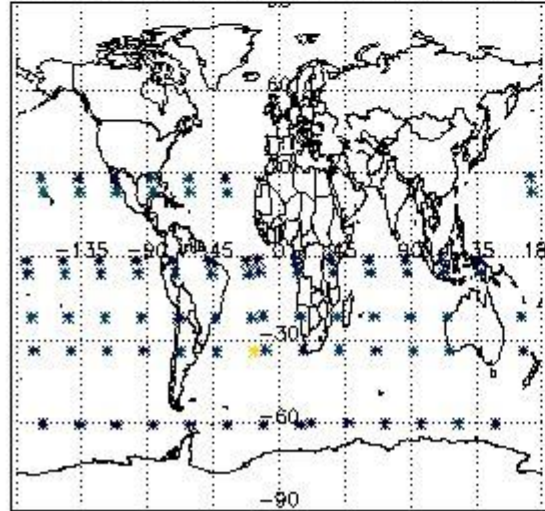
Percentage of flagged data per O3 profile



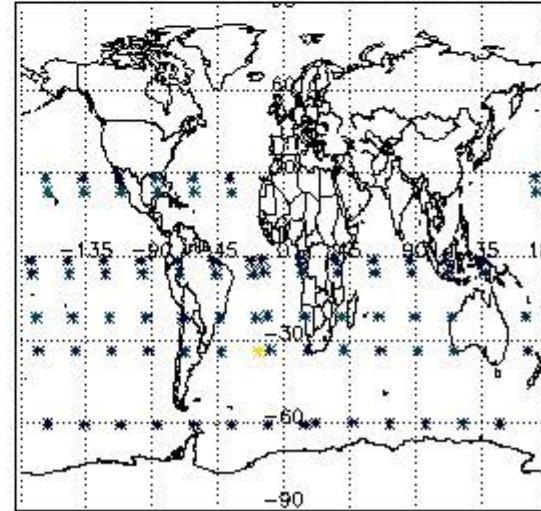
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

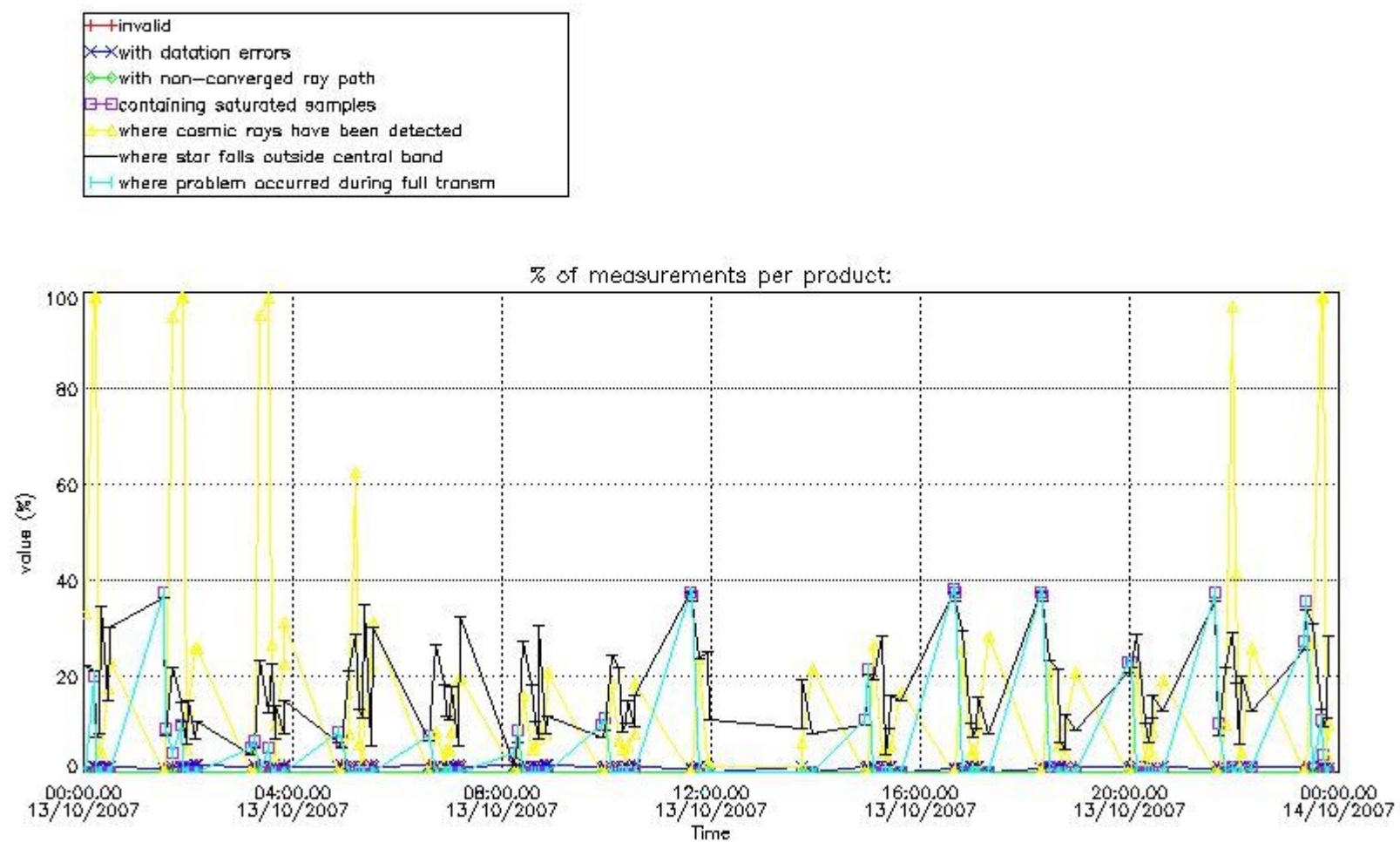


4. Level 1 quality information per product

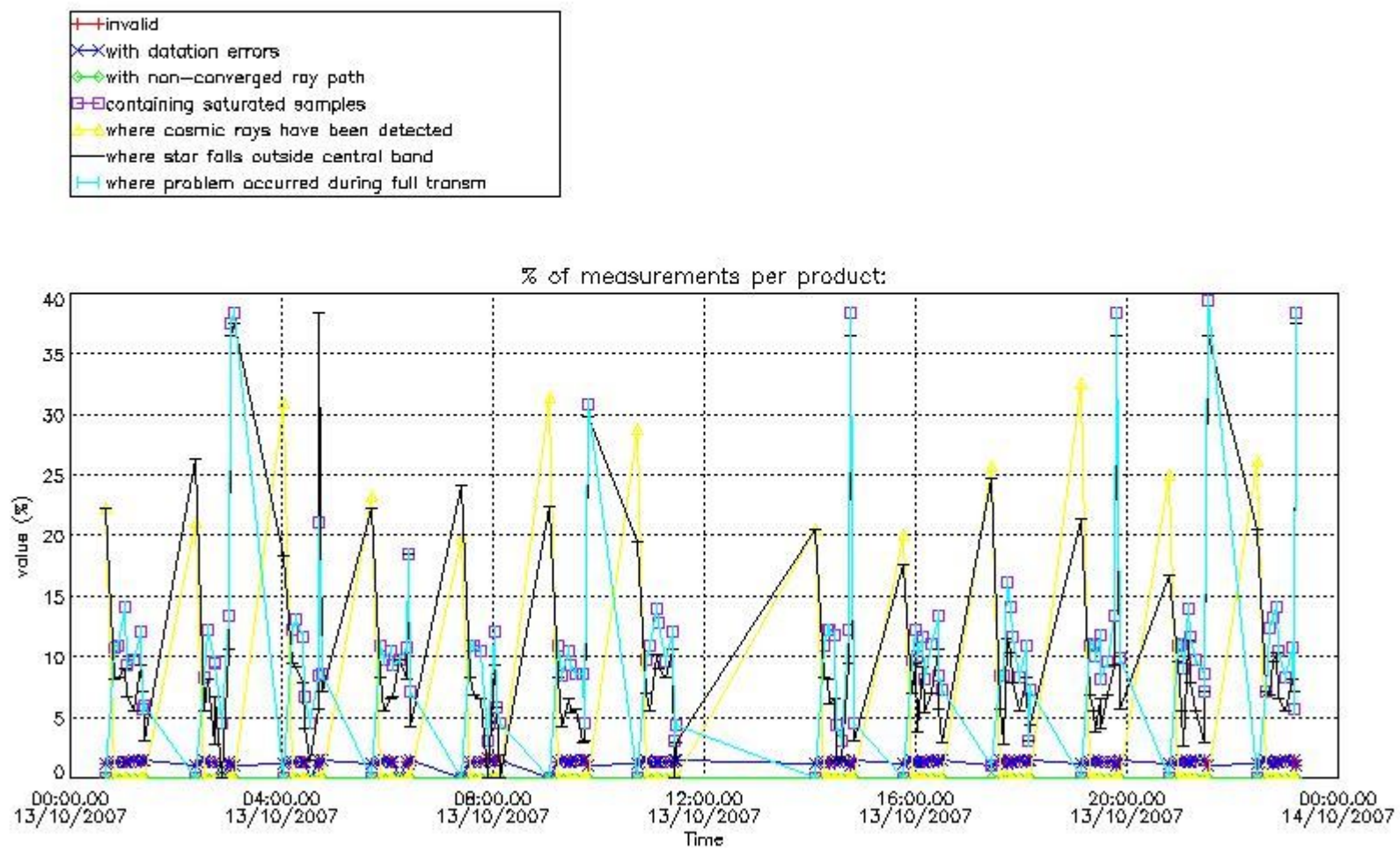
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

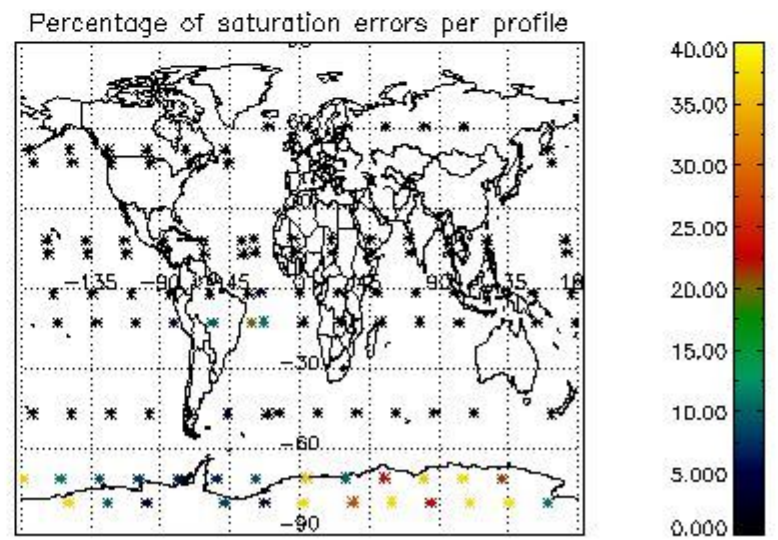
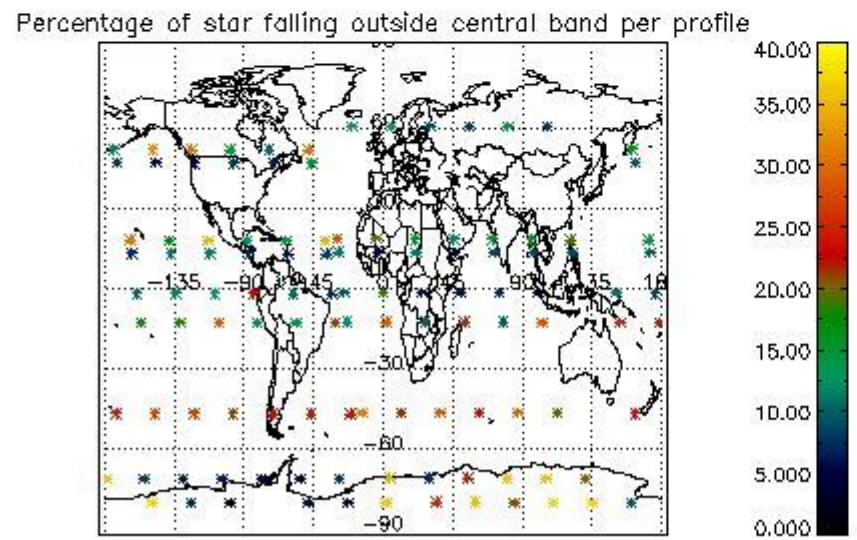
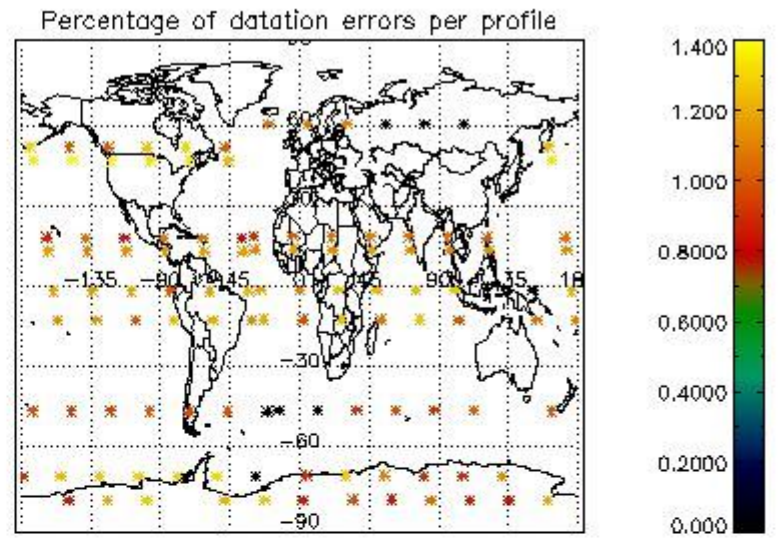
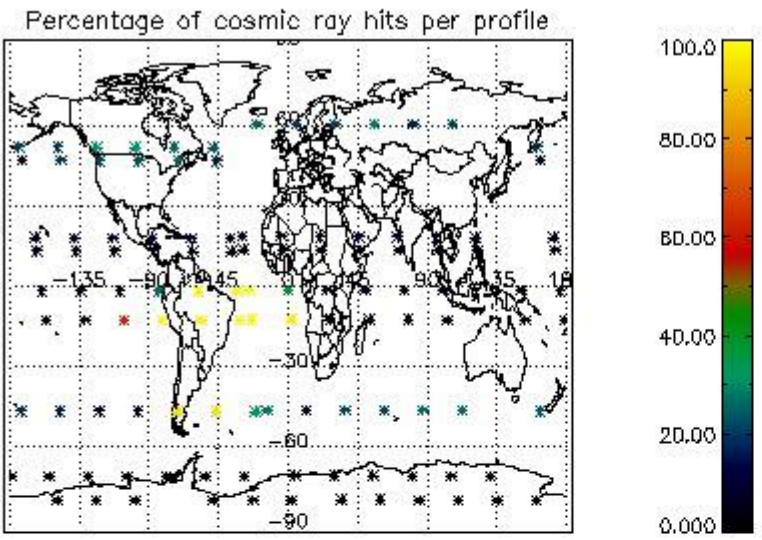


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

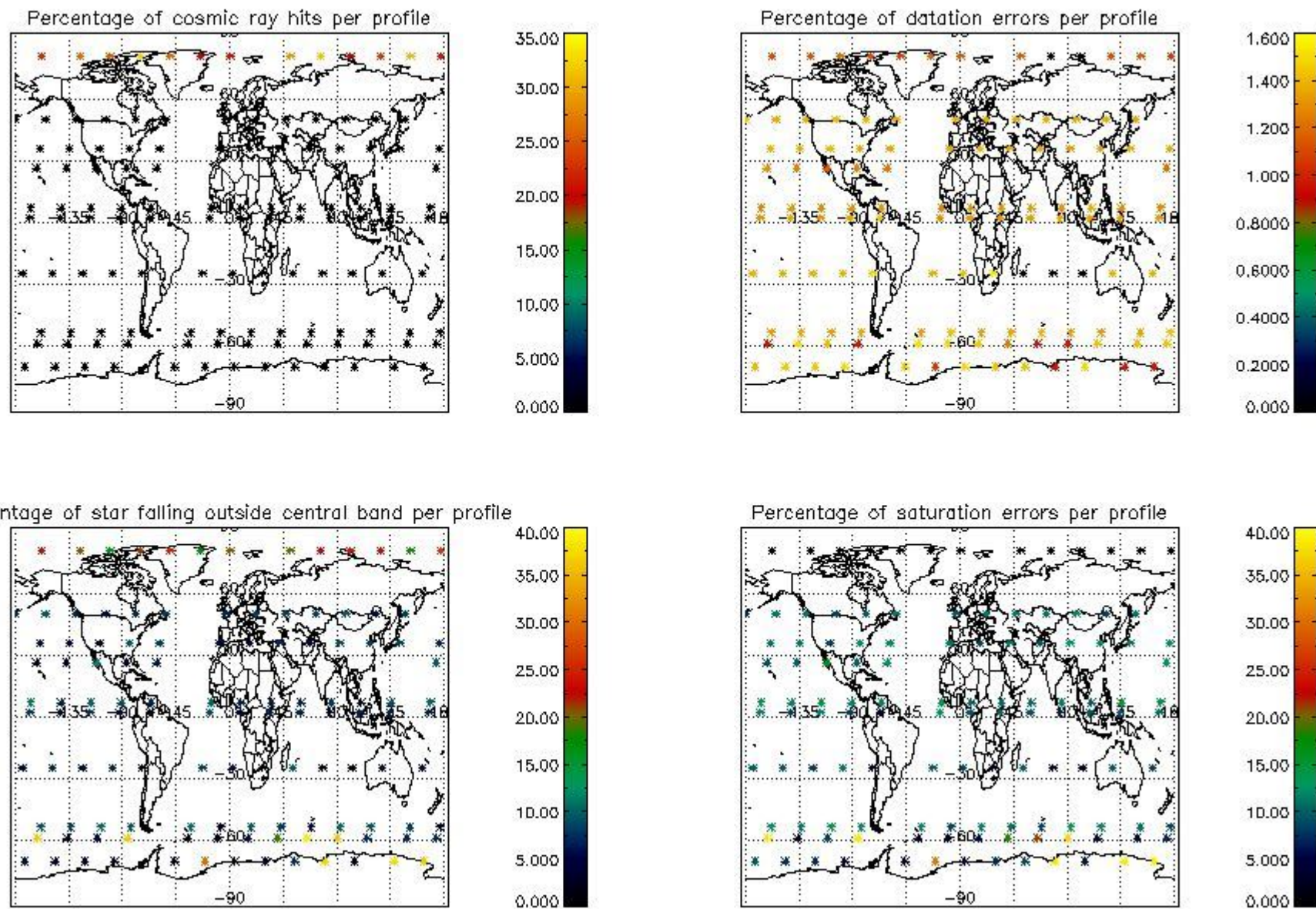


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

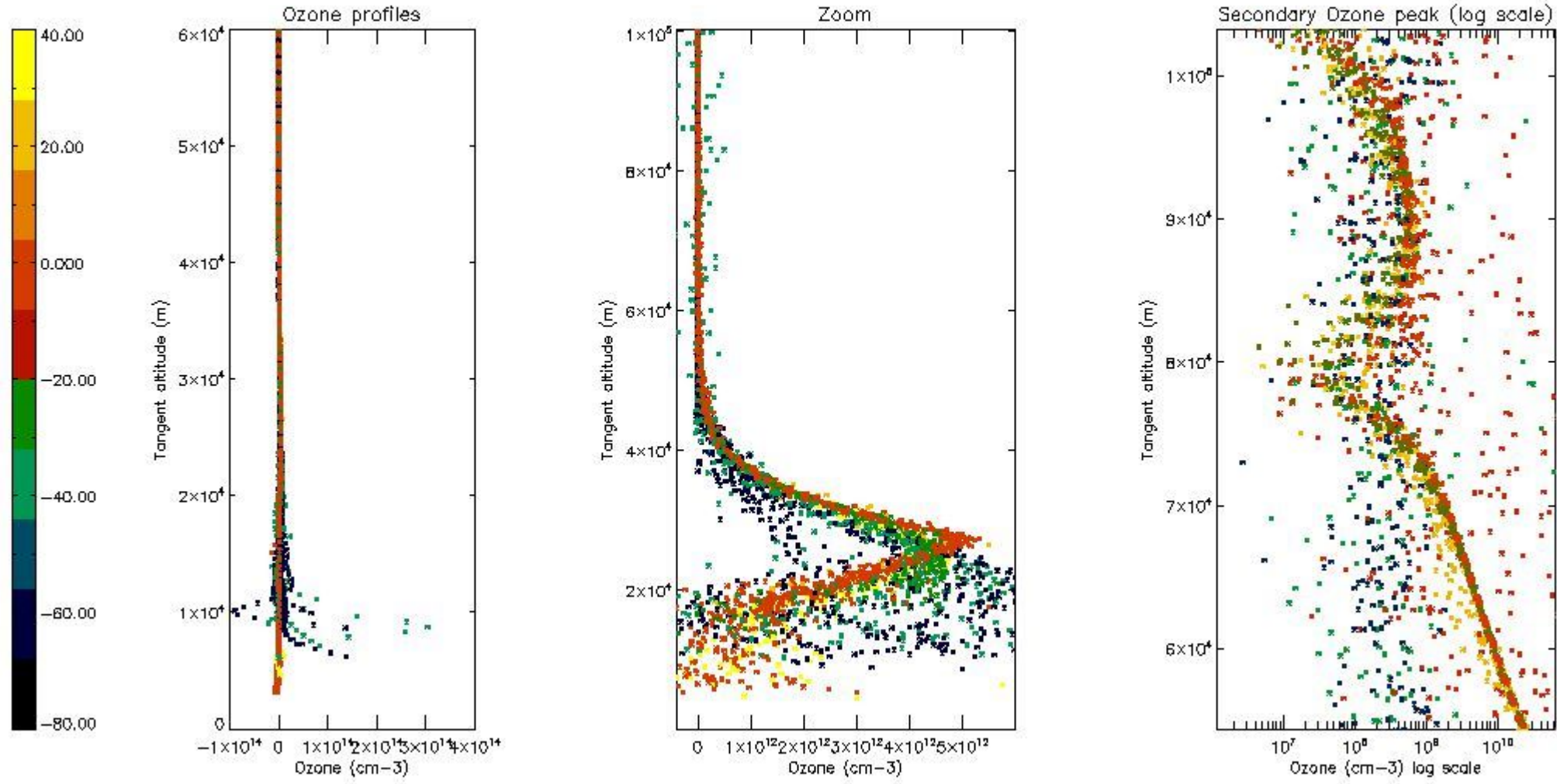
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	40
STD < 20	19

STD < 10	13
STD < 5	10

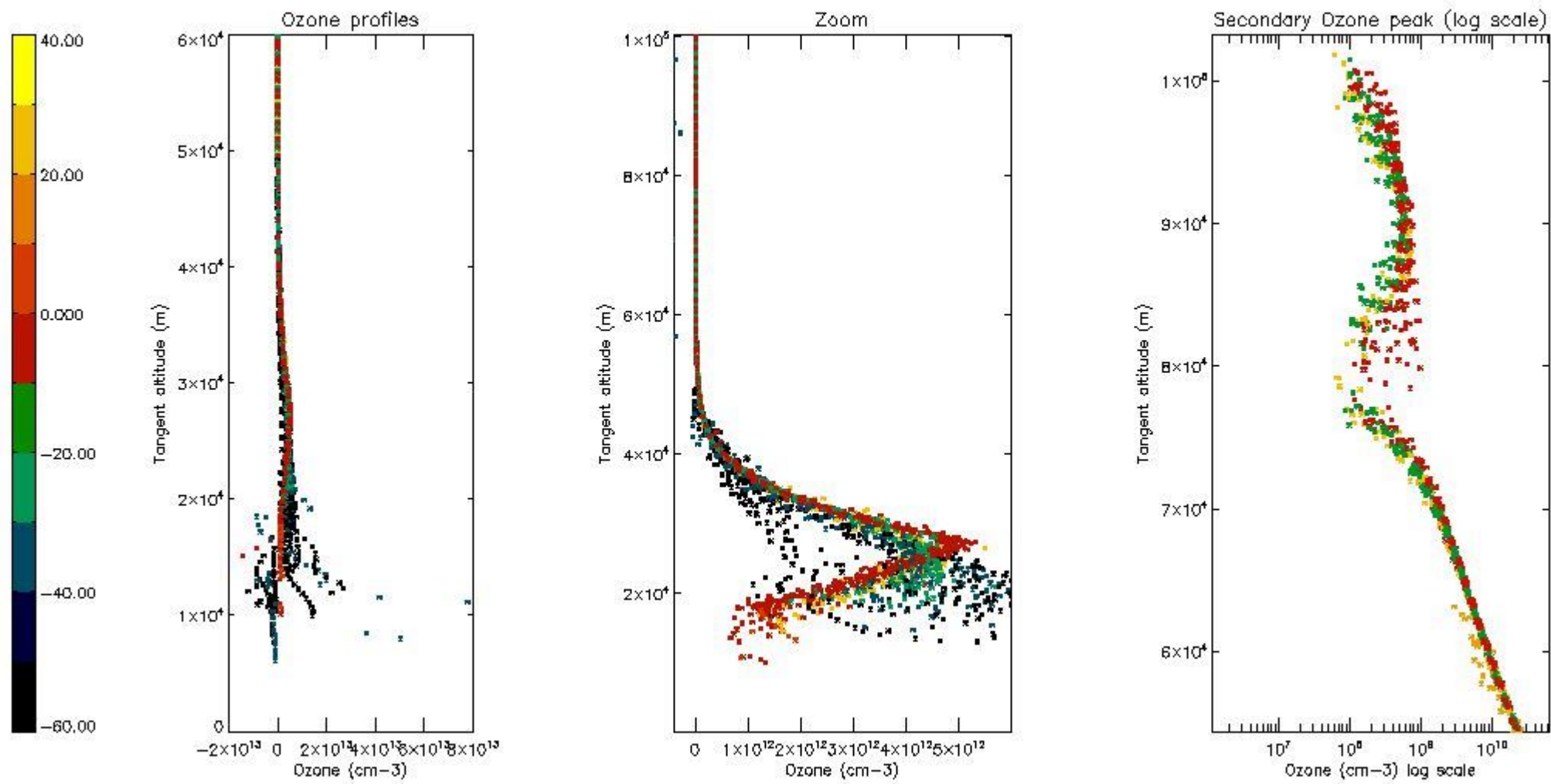
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



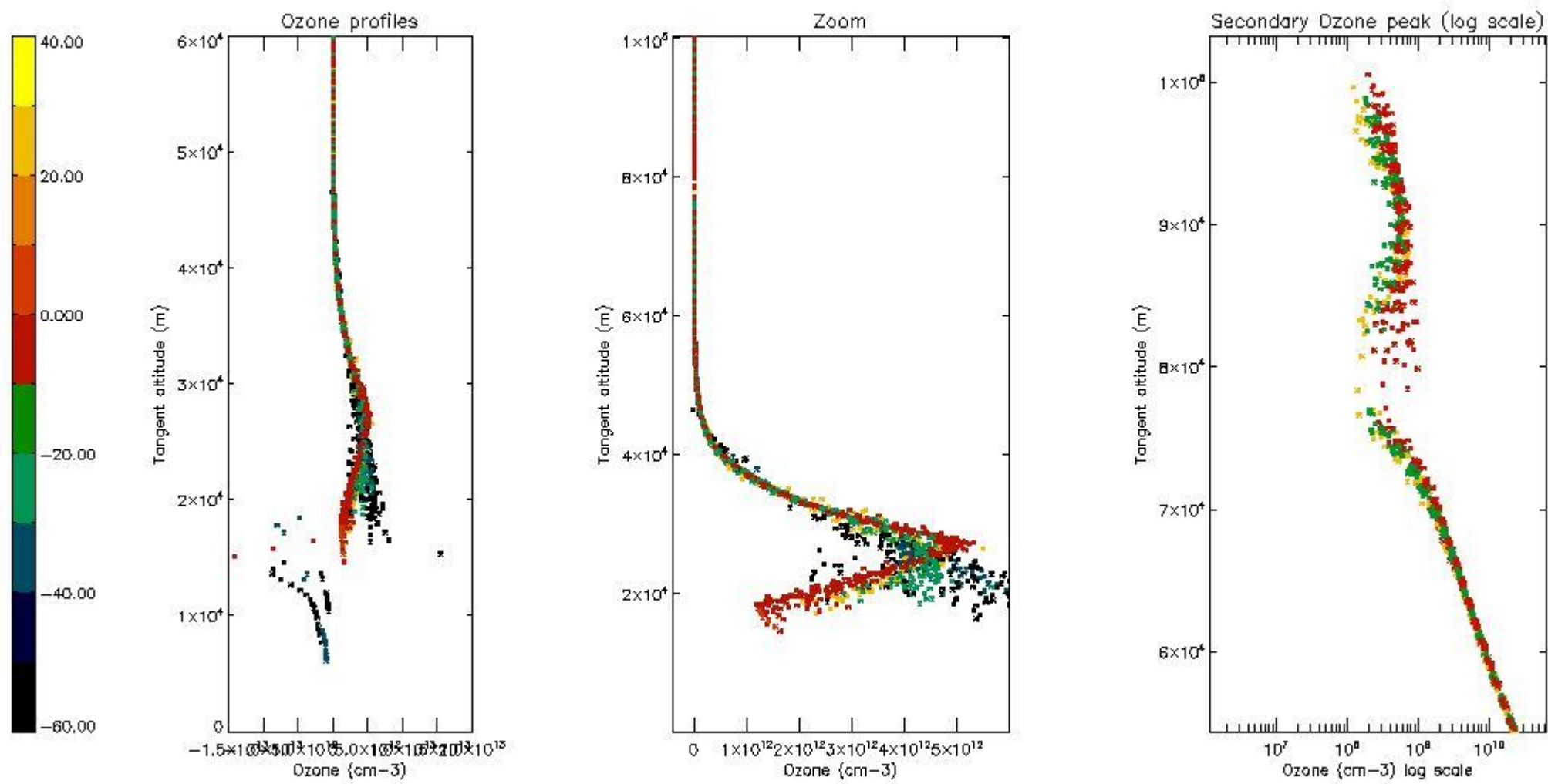
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



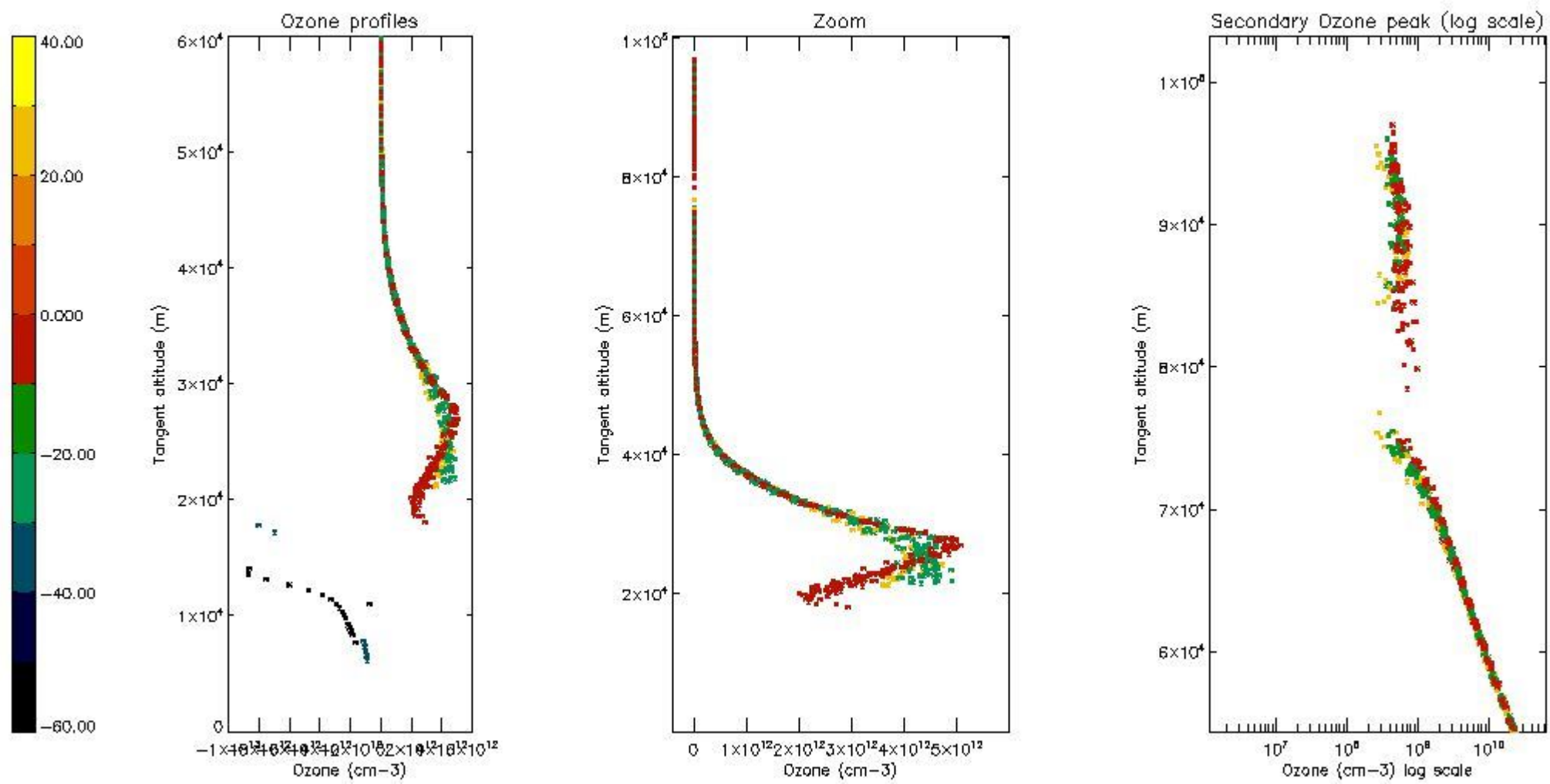
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



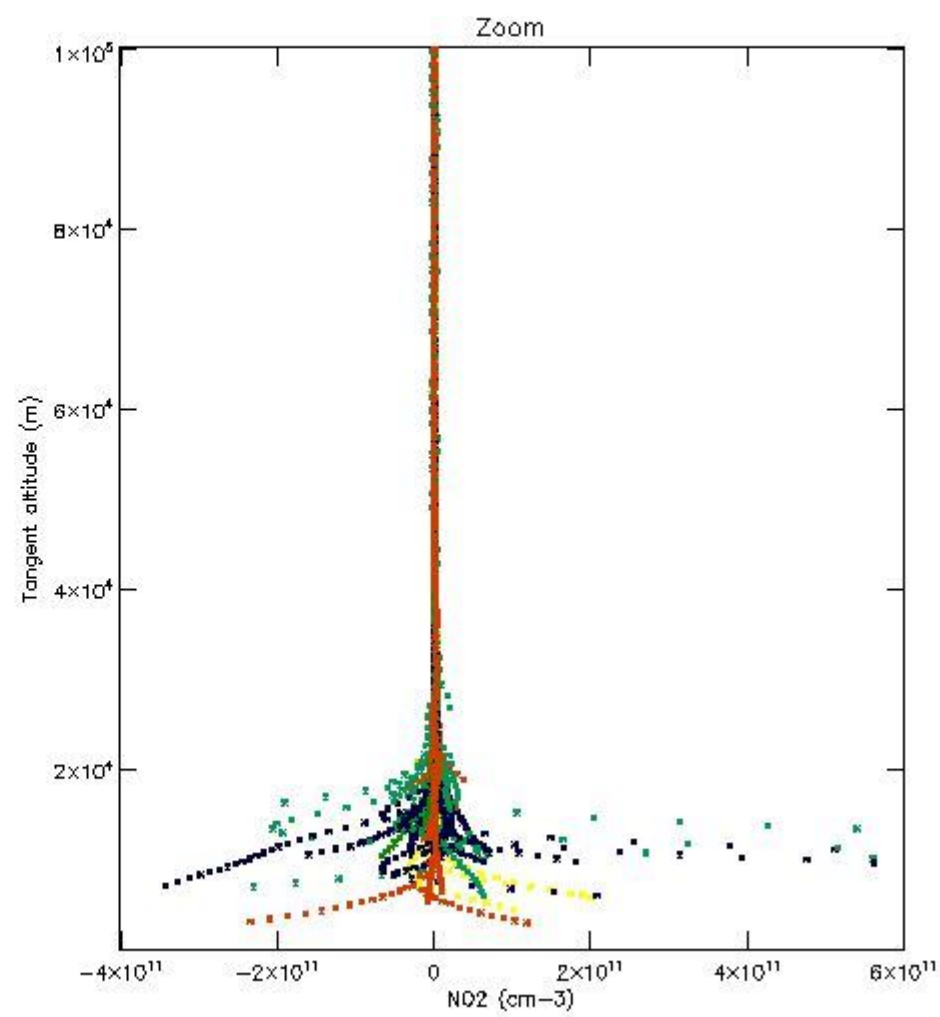
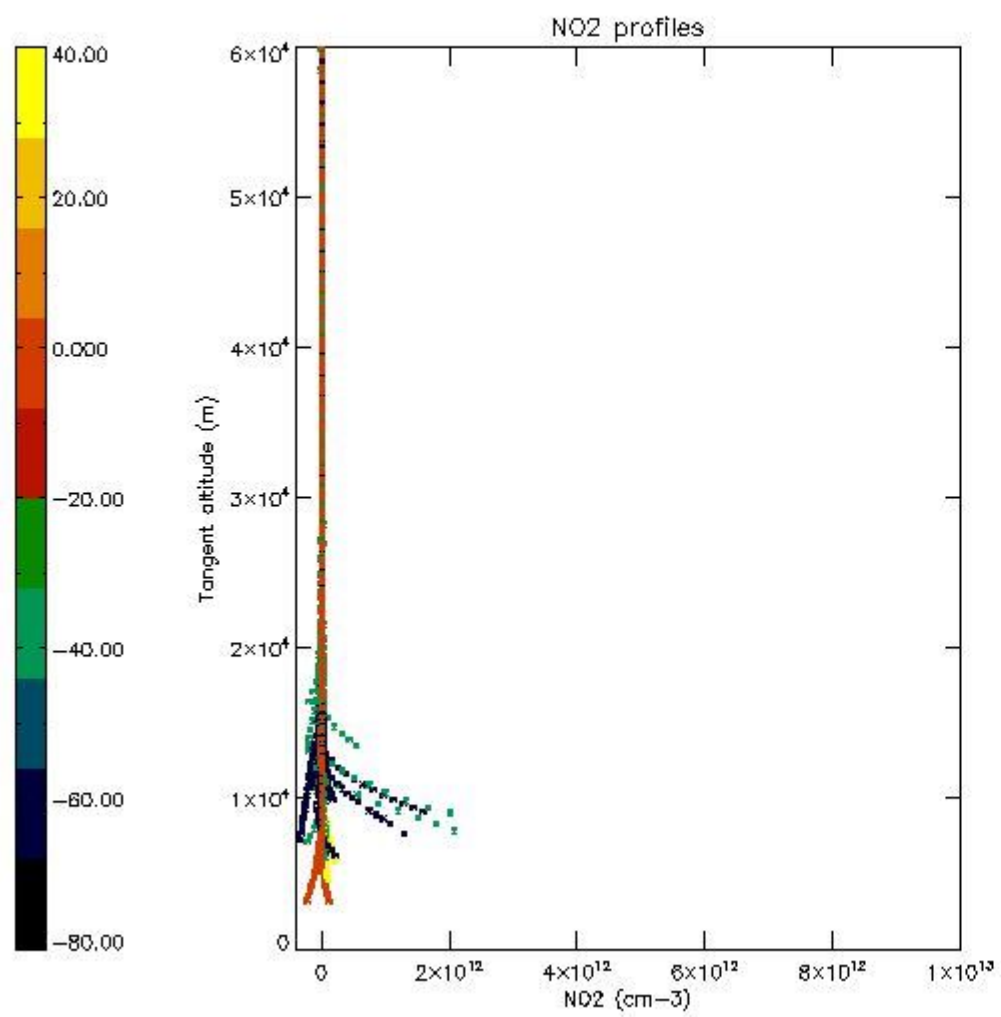
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



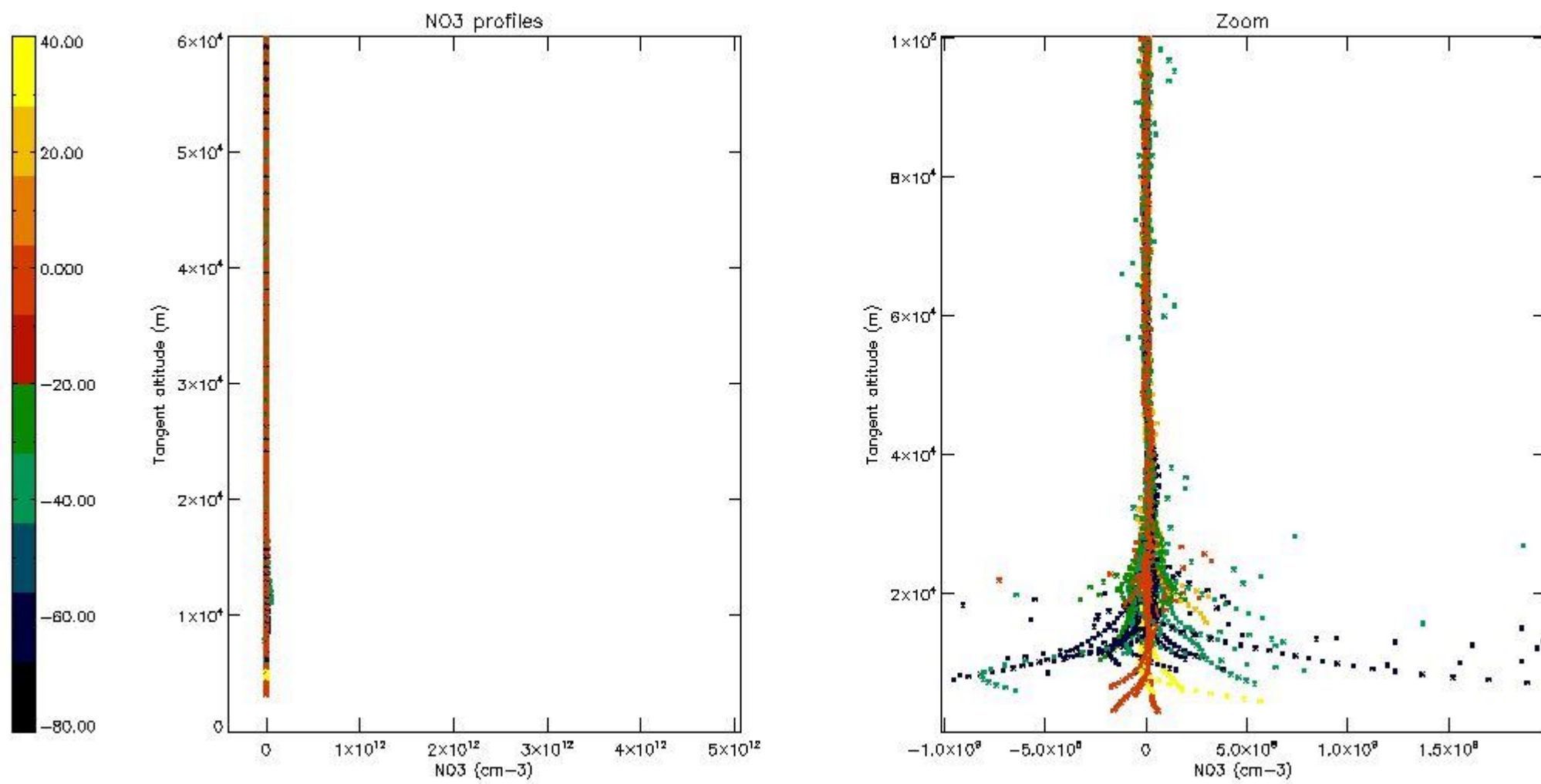
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



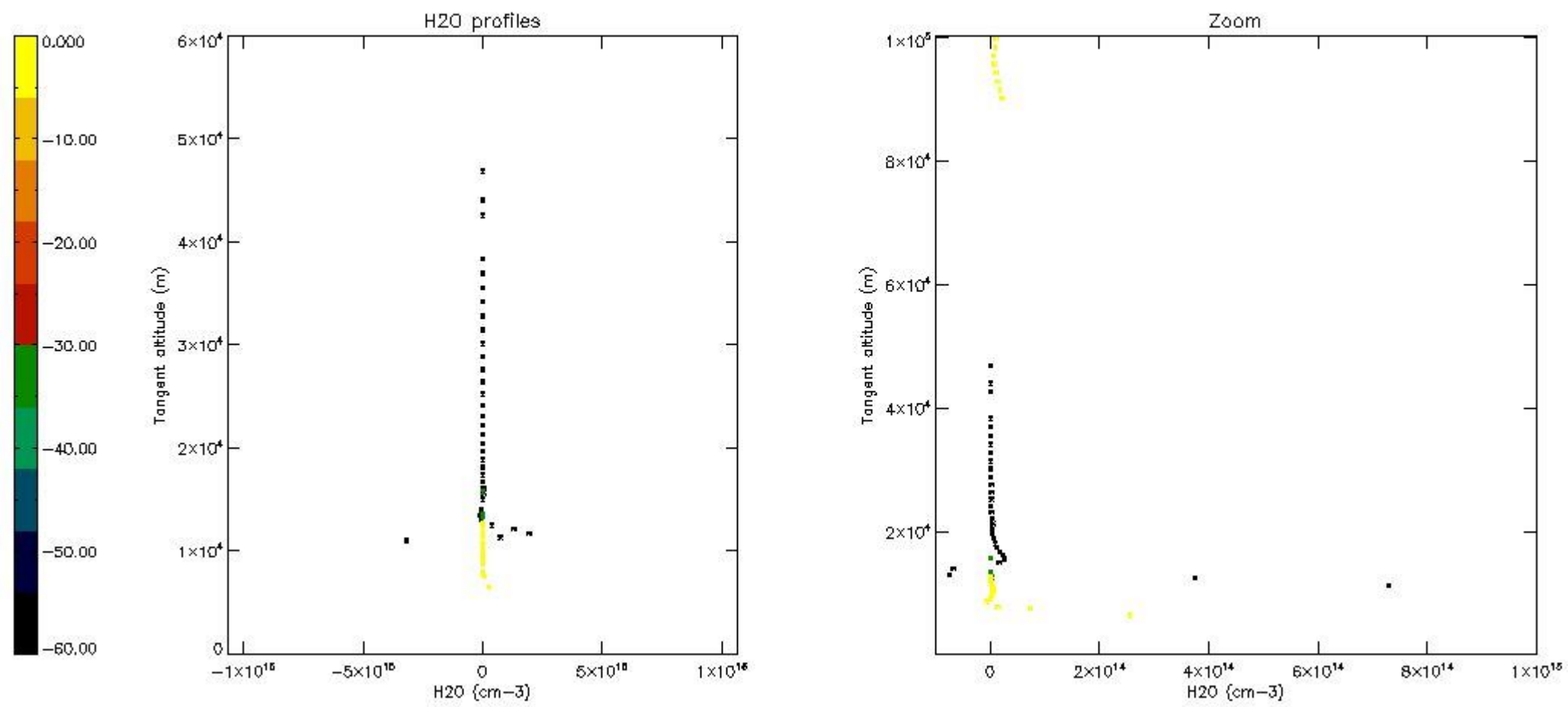
5.7 Plot NO3 profiles for all STD (dark without errors)

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	13-OCT-2007 00:01:25
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	13-OCT-2007 00:01:25
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	13-OCT-2007 00:01:25

GOMOS Level 2 Daily Report

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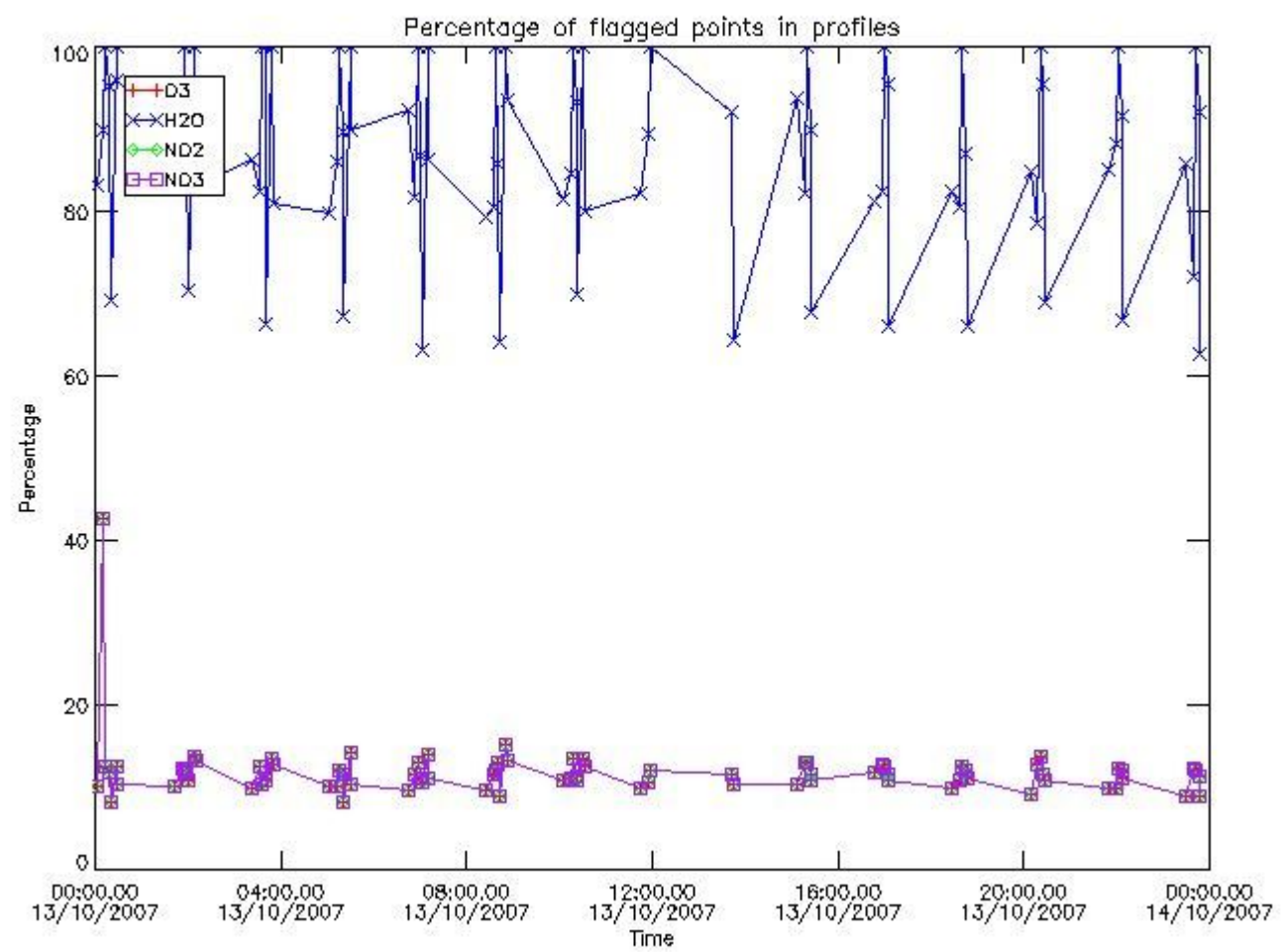
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220	GOM_NL__2PRFIN20071013_220736_000000502062_00273_29385_3390.N1	13-OCT-2007 22:07:36	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	29385	No
221	GOM_NL__2PRFIN20071013_221933_000000472062_00273_29385_3391.N1	13-OCT-2007 22:19:33	Straylight	46.500	157	The1Eri	2.9060	9300.0	93	29385	No
222	GOM_NL__2PRFIN20071013_222848_000000442062_00273_29385_3392.N1	13-OCT-2007 22:28:48	Straylight	44.000	52	16Bet Cet	2.0370	4500.0	88	29385	No
223	GOM_NL__2PRFIN20071013_223831_000000352062_00273_29385_3393.N1	13-OCT-2007 22:38:31	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	29385	No
224	GOM_NL__2PRFIN20071013_224230_000000372062_00273_29385_3394.N1	13-OCT-2007 22:42:30	Bright	36.500	58	21Alp And	2.0730	11000.	73	29385	No
225	GOM_NL__2PRFIN20071013_224512_000000422062_00273_29385_3395.N1	13-OCT-2007 22:45:12	Bright	41.500	53	43Bet And	2.0480	3300.0	83	29385	No
226	GOM_NL__2PRFIN20071013_225038_000000392062_00273_29385_3396.N1	13-OCT-2007 22:50:38	Bright	39.000	68	18Alp Cas	2.2250	4500.0	78	29385	No
227	GOM_NL__2PRFIN20071013_225201_000000382062_00273_29385_3397.N1	13-OCT-2007 22:52:01	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	29385	No
228	GOM_NL__2PRFIN20071013_225931_000000362062_00273_29385_3398.N1	13-OCT-2007 22:59:31	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	29385	No
229	GOM_NL__2PRFIN20071013_230744_000000372062_00273_29385_3399.N1	13-OCT-2007 23:07:44	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	29385	No
230	GOM_NL__2PRFIN20071013_230917_000000352062_00273_29385_3400.N1	13-OCT-2007 23:09:17	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	29385	No
231	GOM_NL__2PRFIN20071013_231238_000000522062_00273_29385_3401.N1	13-OCT-2007 23:12:38	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	29385	No
232	GOM_NL__2PRFIN20071013_231931_000000512062_00273_29385_3402.N1	13-OCT-2007 23:19:31	Bright	51.000	166	17Eps Leo	2.9800	6000.0	102	29385	No
233	GOM_NL__2PRFIN20071013_232245_000000562062_00273_29385_3403.N1	13-OCT-2007 23:22:45	Bright	56.000	22	32Alp Leo	1.3600	15200.	112	29385	No
234	GOM_NL__2PRFIN20071013_232957_000000572062_00273_29385_3404.N1	13-OCT-2007 23:29:57	Dark	56.500	48	30Alp Hya	1.9770	4100.0	113	29385	No
235	GOM_NL__2PRFIN20071013_233932_000000422062_00273_29385_3405.N1	13-OCT-2007 23:39:32	Dark	41.500	65	Lam Vel	2.2040	4400.0	83	29385	No
236	GOM_NL__2PRFIN20071013_234237_000000422062_00273_29385_3406.N1	13-OCT-2007 23:42:37	Dark	42.000	34	Gam2Vel	1.7930	23000.	84	29385	No
237	GOM_NL__2PRFIN20071013_234650_000000452062_00274_29386_3413.N1	13-OCT-2007 23:46:50	Dark	45.000	161	Tau Pup	2.9310	4500.0	90	29386	No
238	GOM_NL__2PRFIN20071013_234812_000000572062_00274_29386_3414.N1	13-OCT-2007 23:48:12	Dark	56.500	2	Alp Car	-0.73600	7000.0	113	29386	No

3. Quality information per product

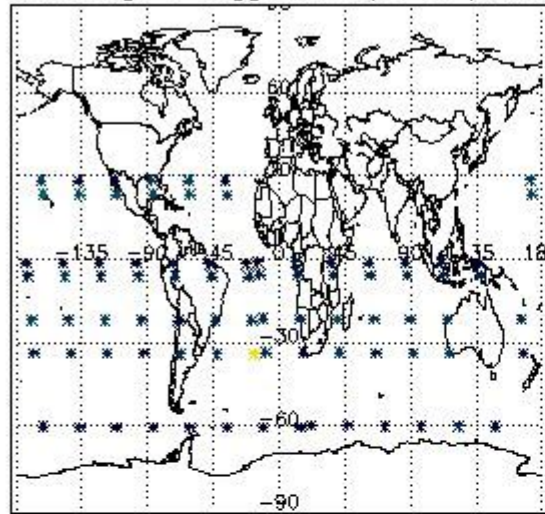
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

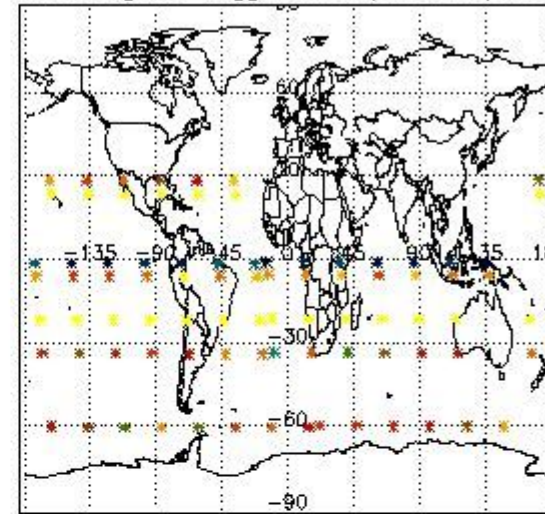


3.2 Plot quality information per product (world map)

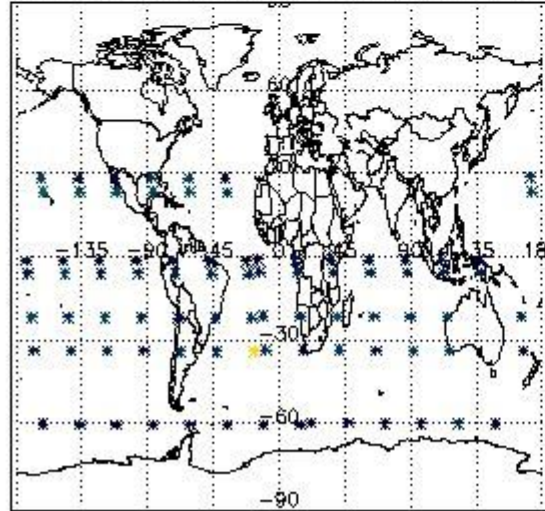
Percentage of flagged data per O3 profile



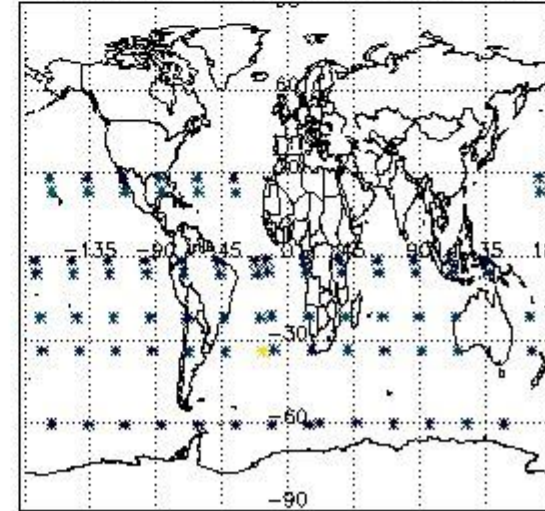
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

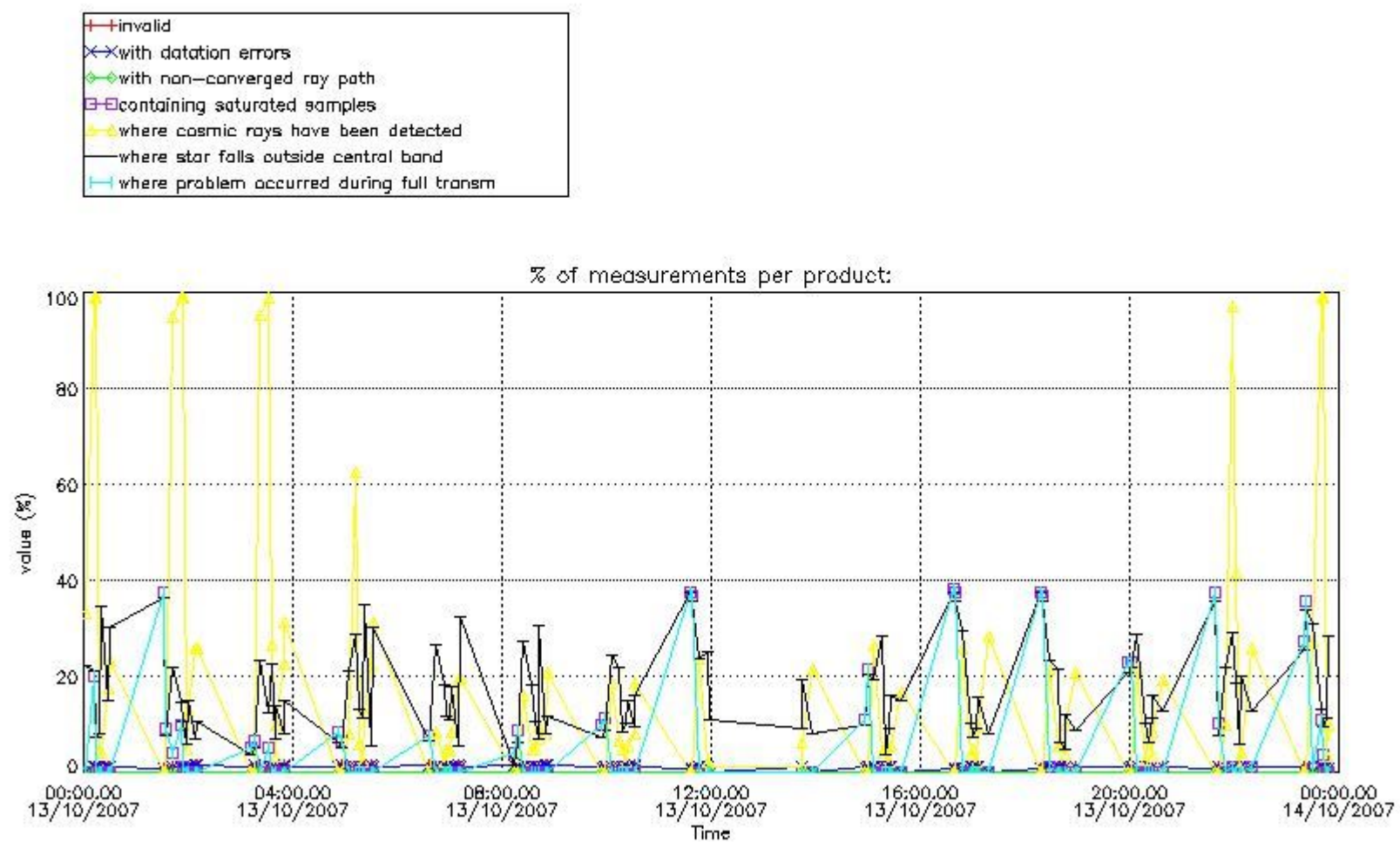


4. Level 1 quality information per product

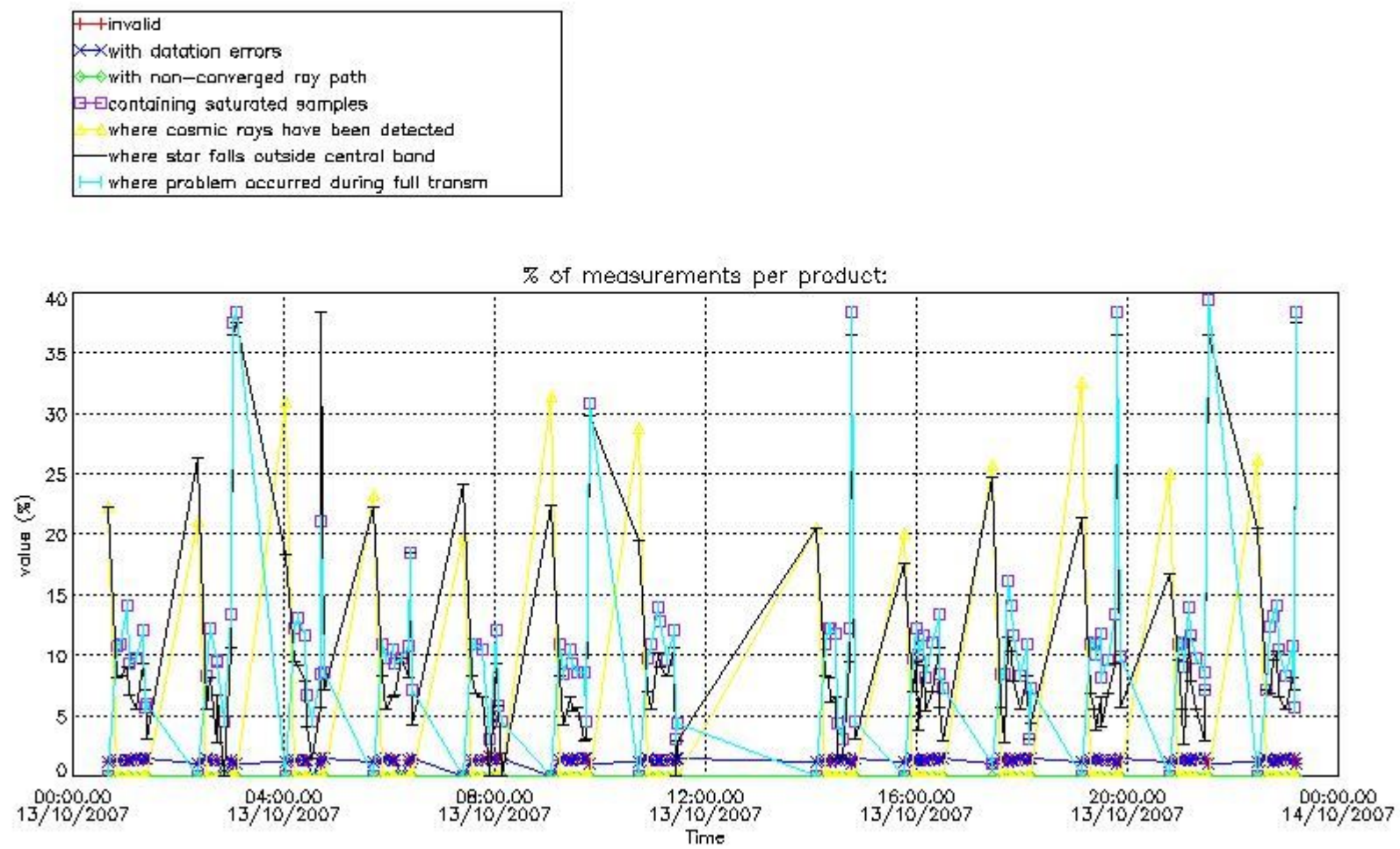
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



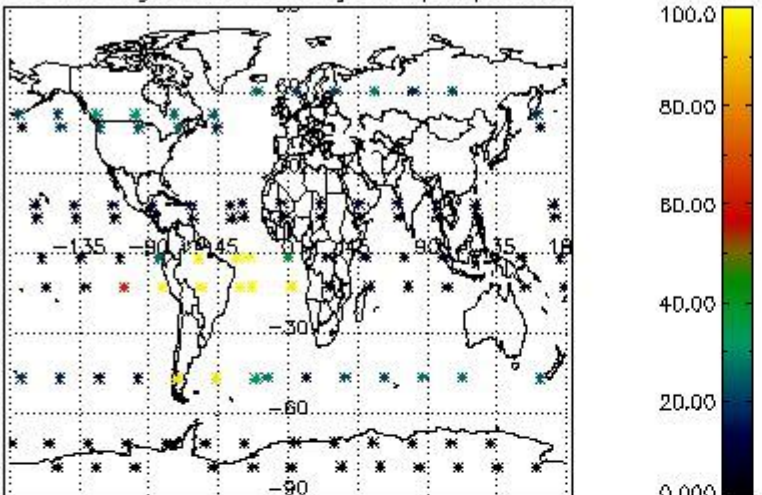
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



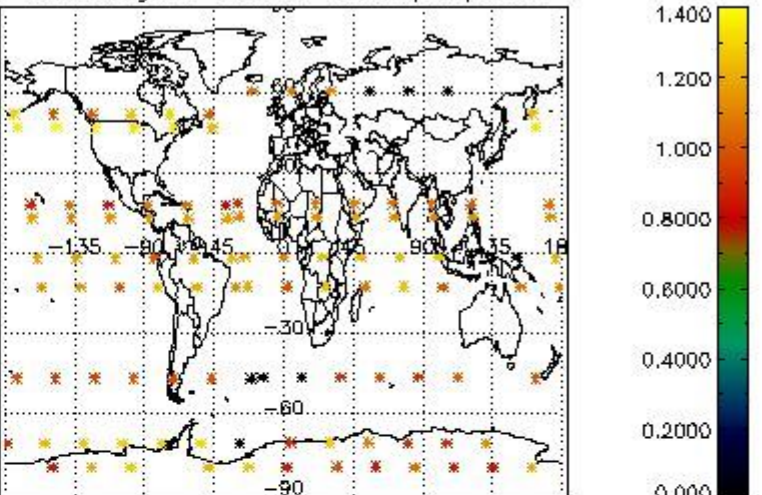
4.2 Plot quality information per product coming from level 1b processing (world map)

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

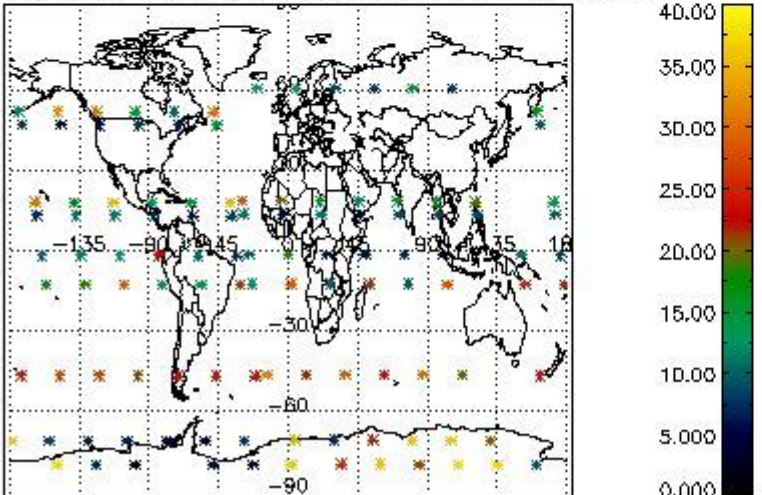
Percentage of cosmic ray hits per profile



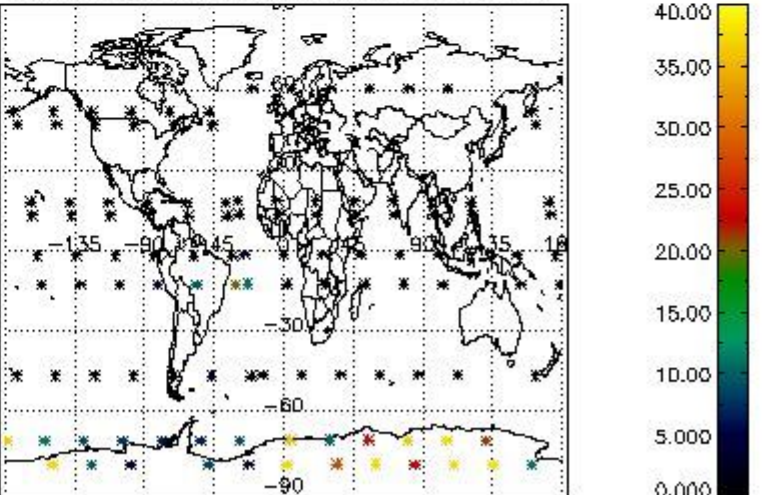
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

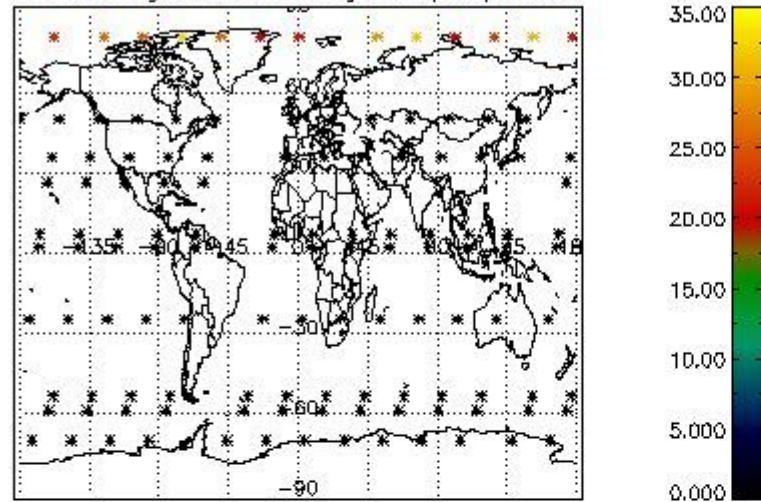


Percentage of saturation errors per profile

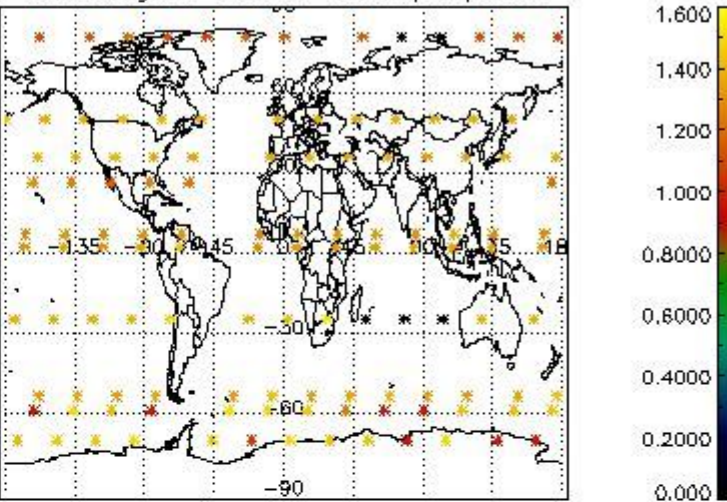


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

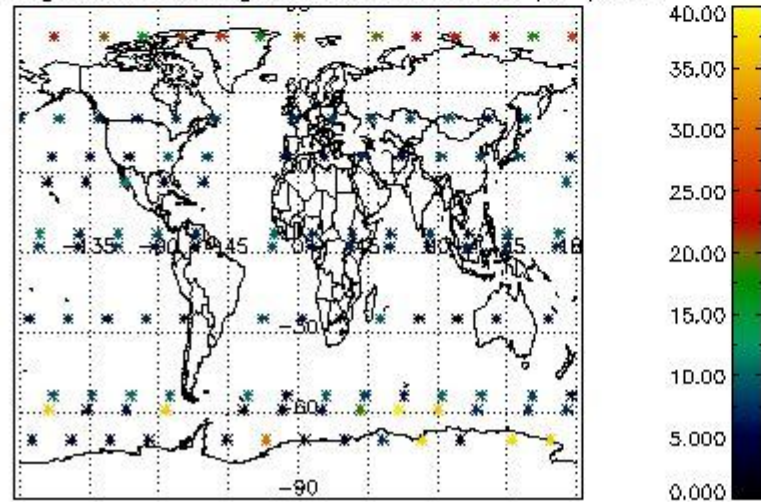
Percentage of cosmic ray hits per profile



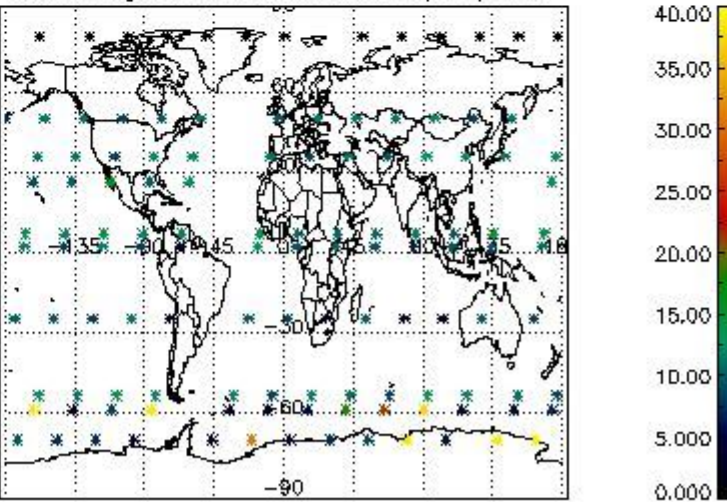
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

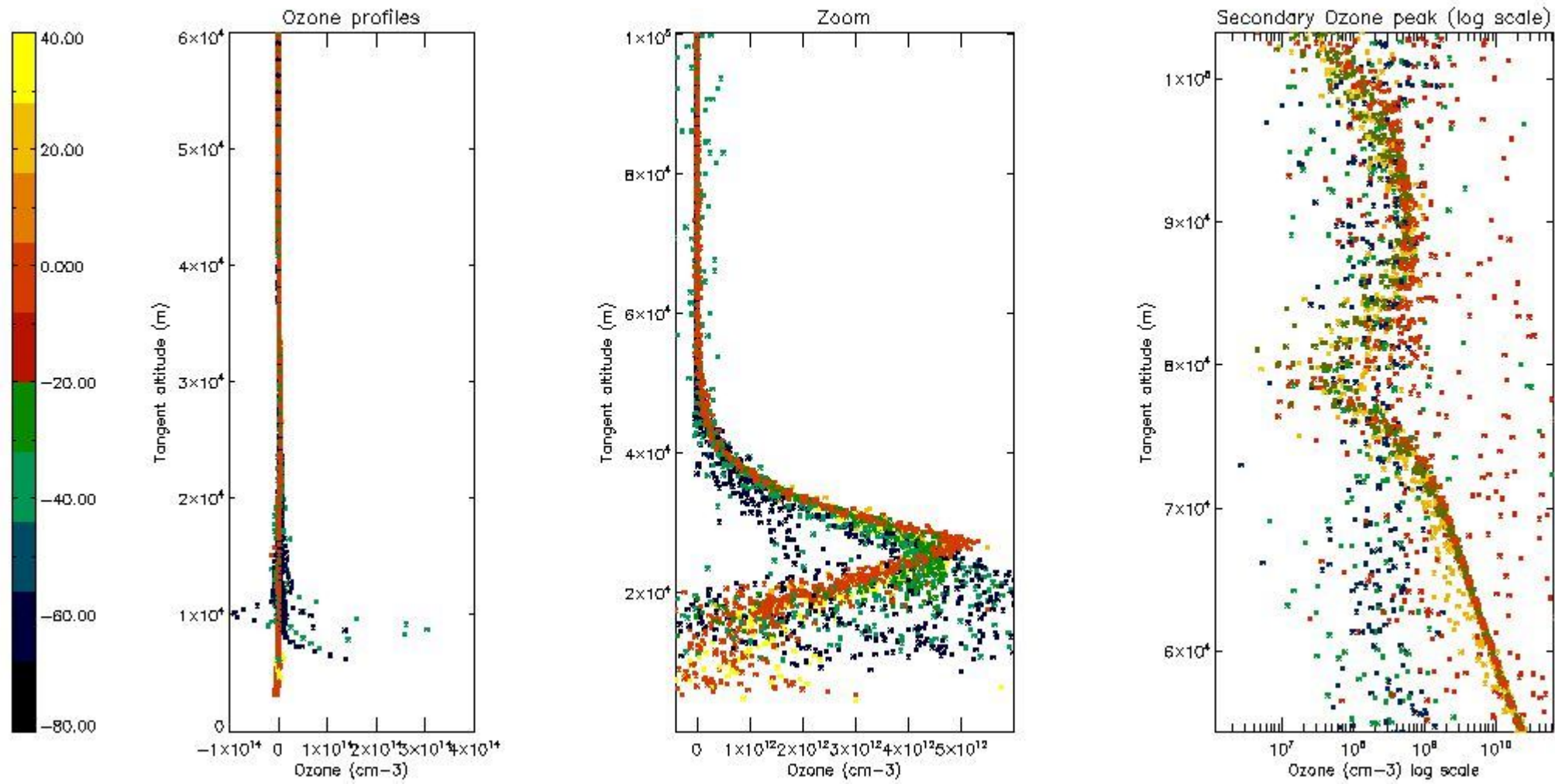
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	40
STD < 20	19

STD < 10	13
STD < 5	10

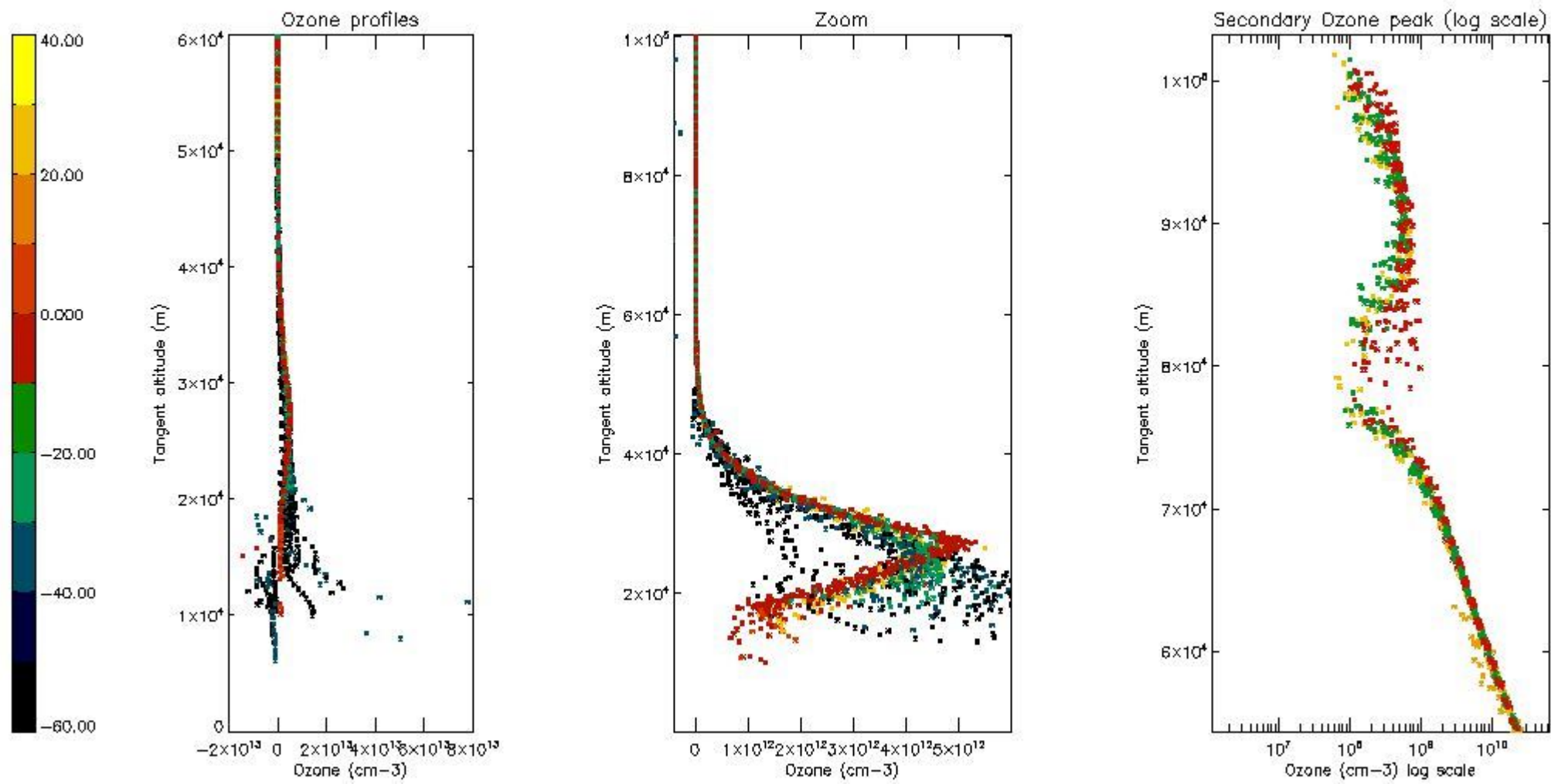
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



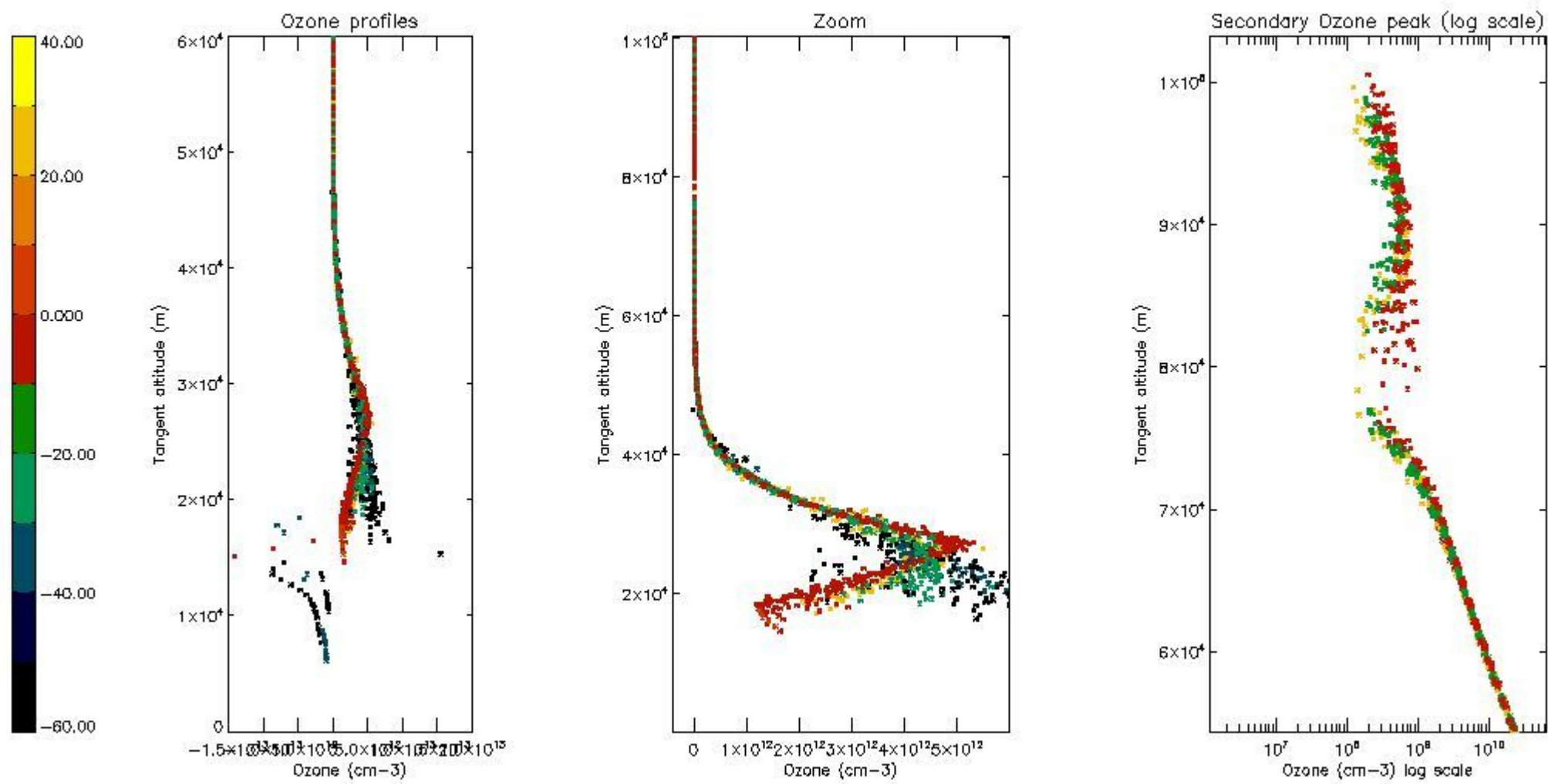
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



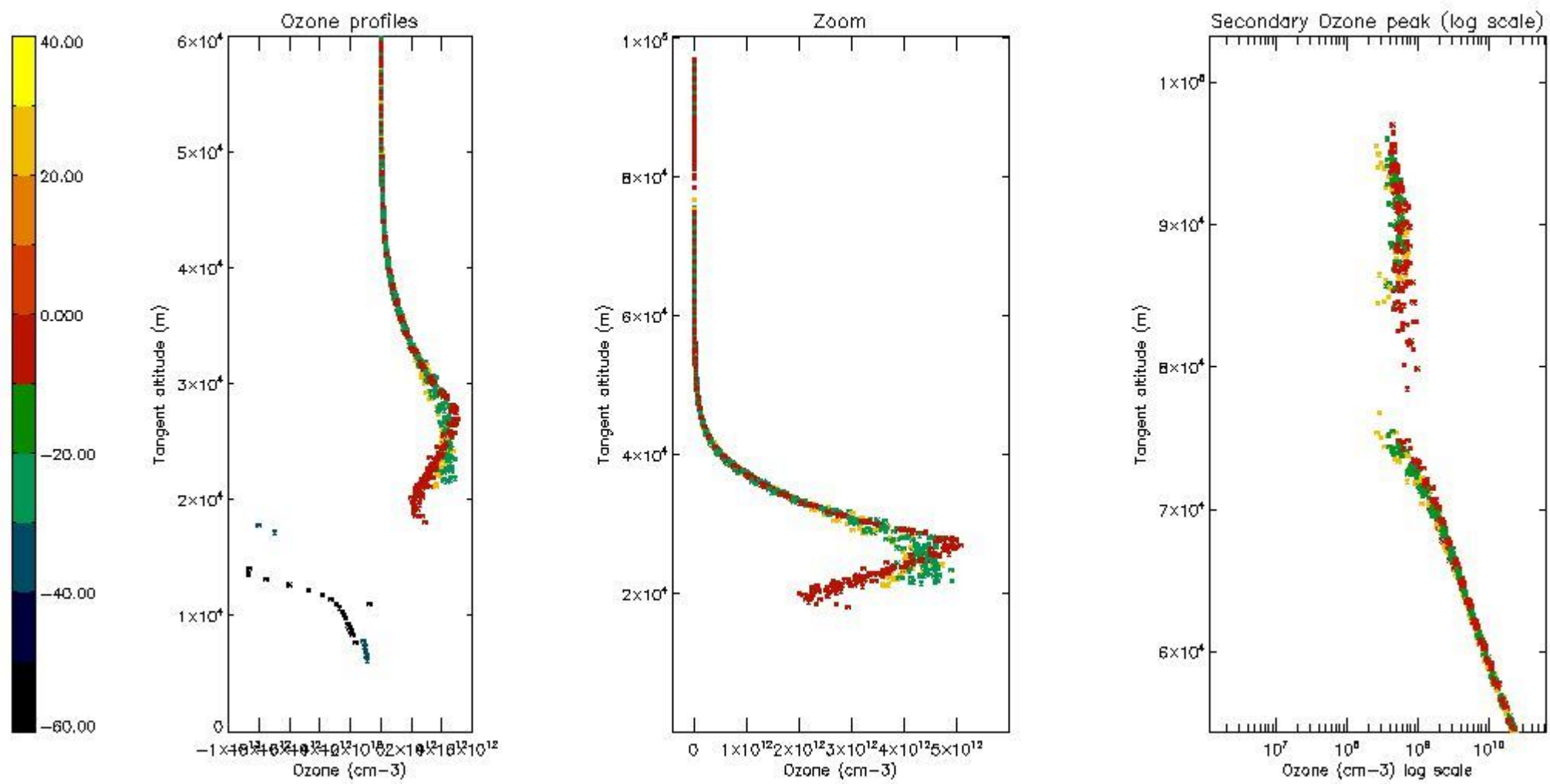
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



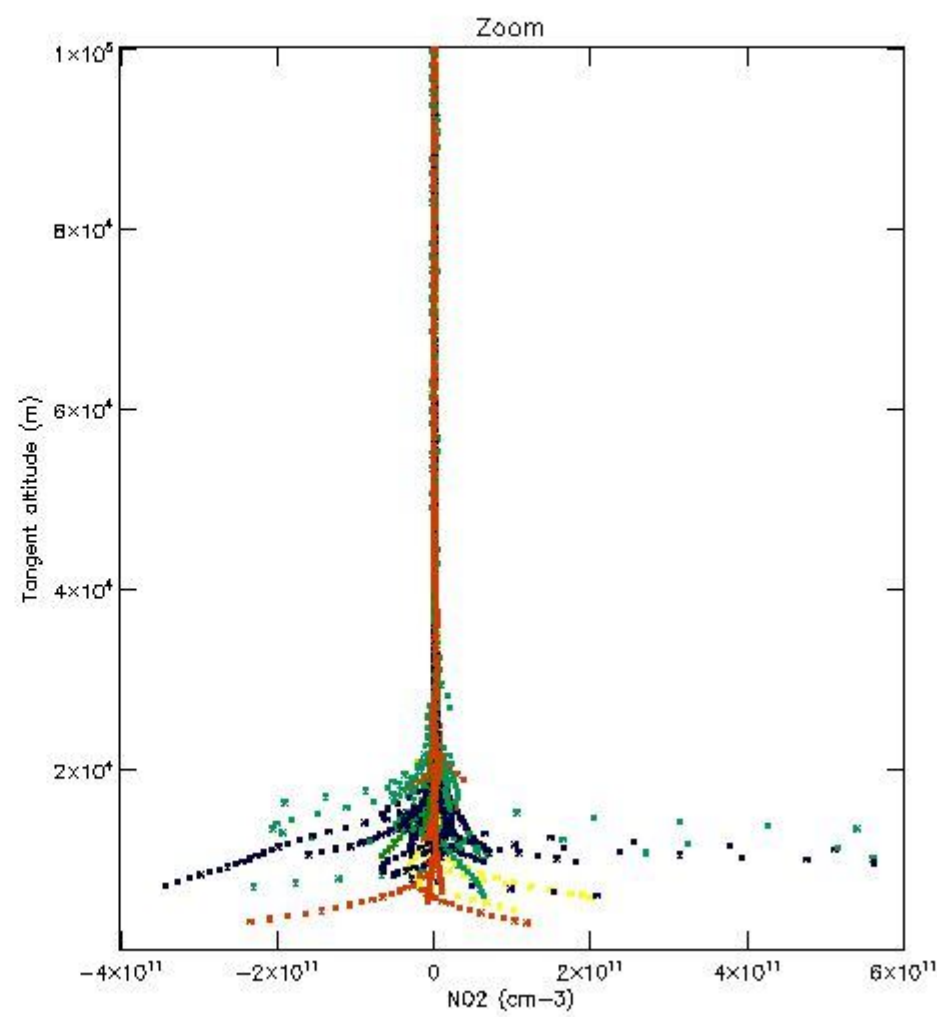
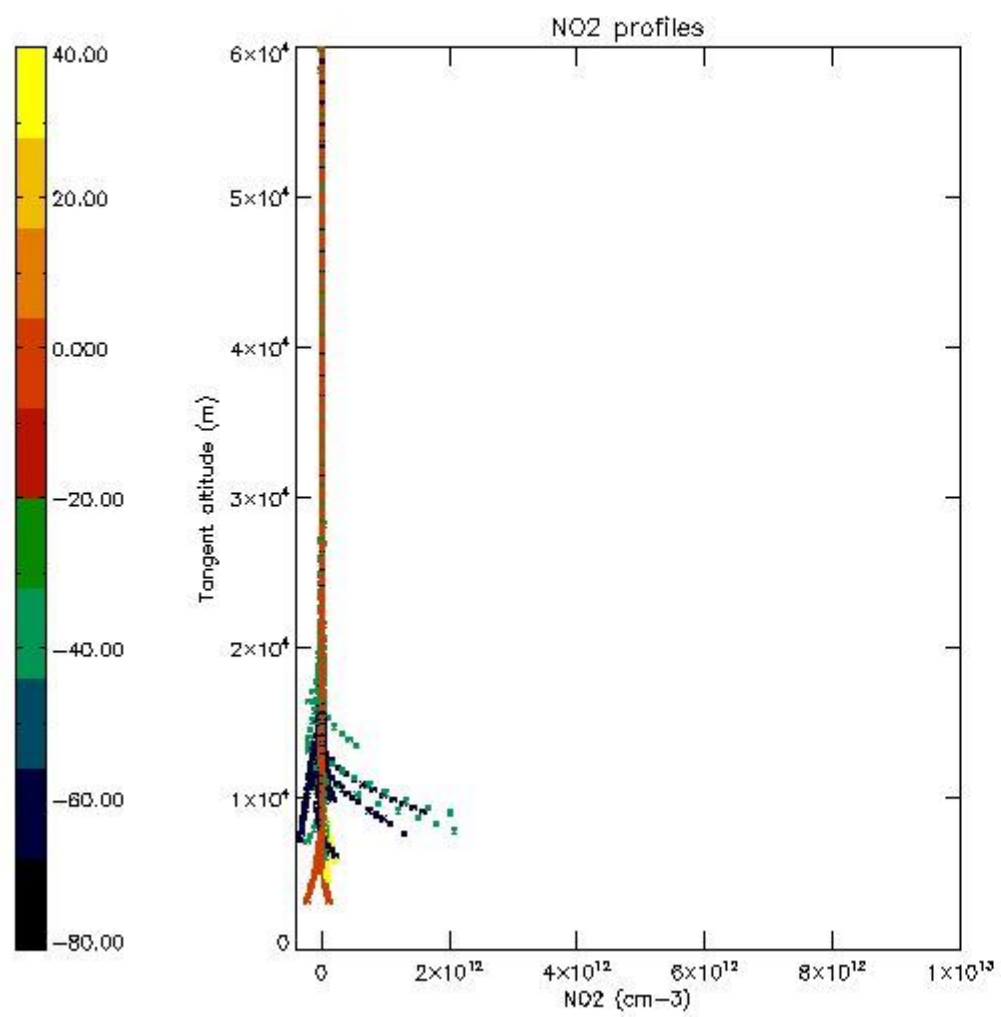
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



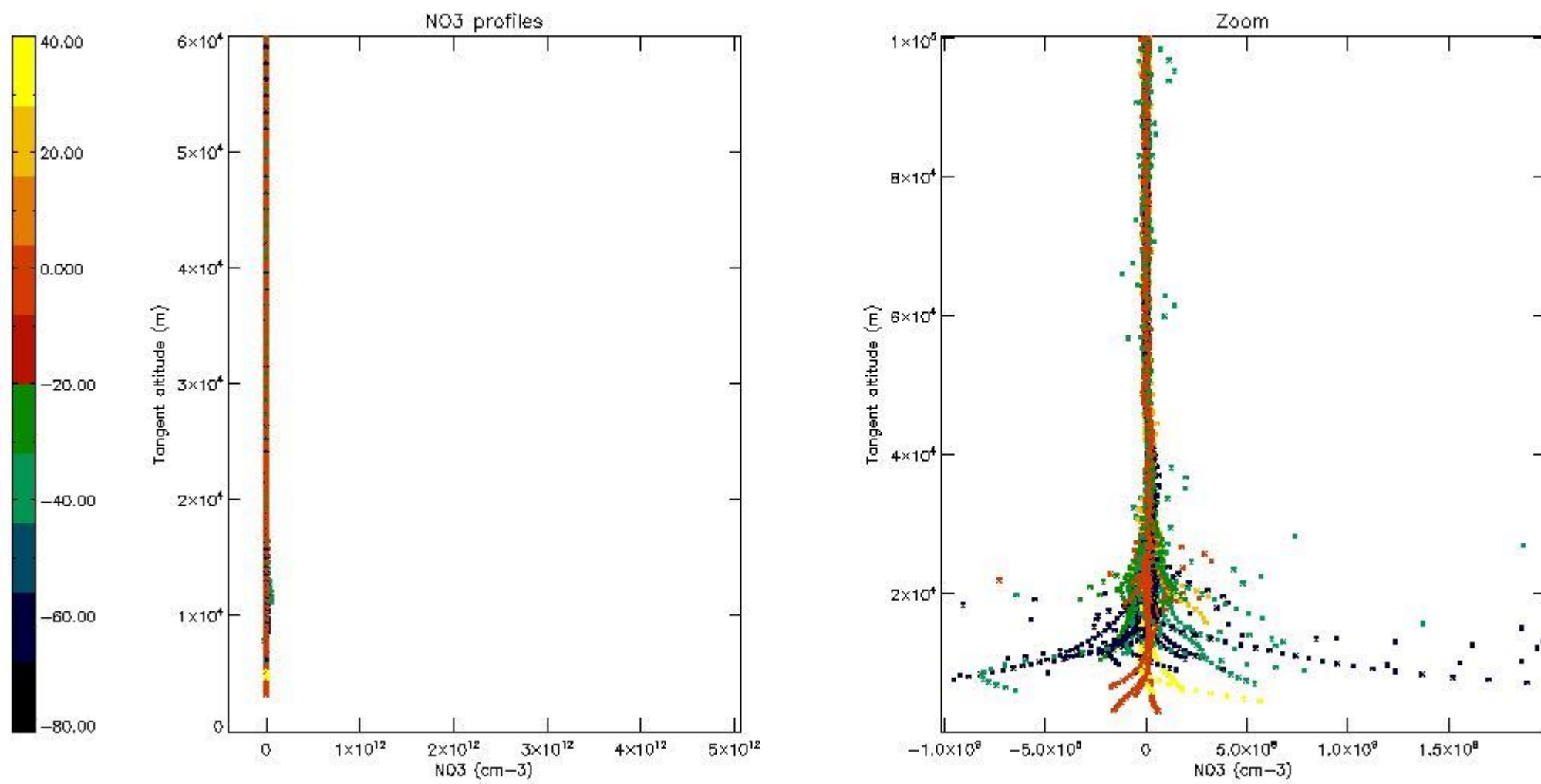
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



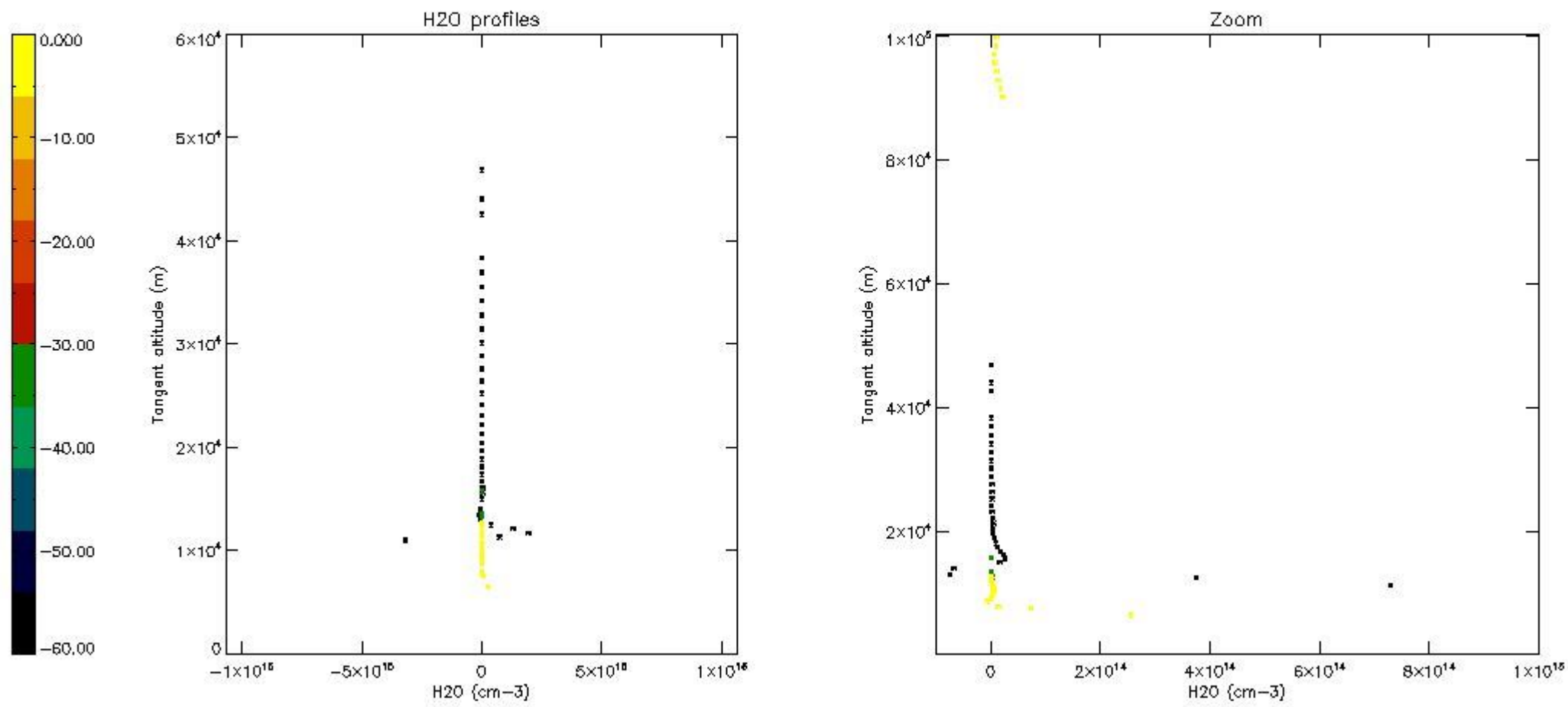
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

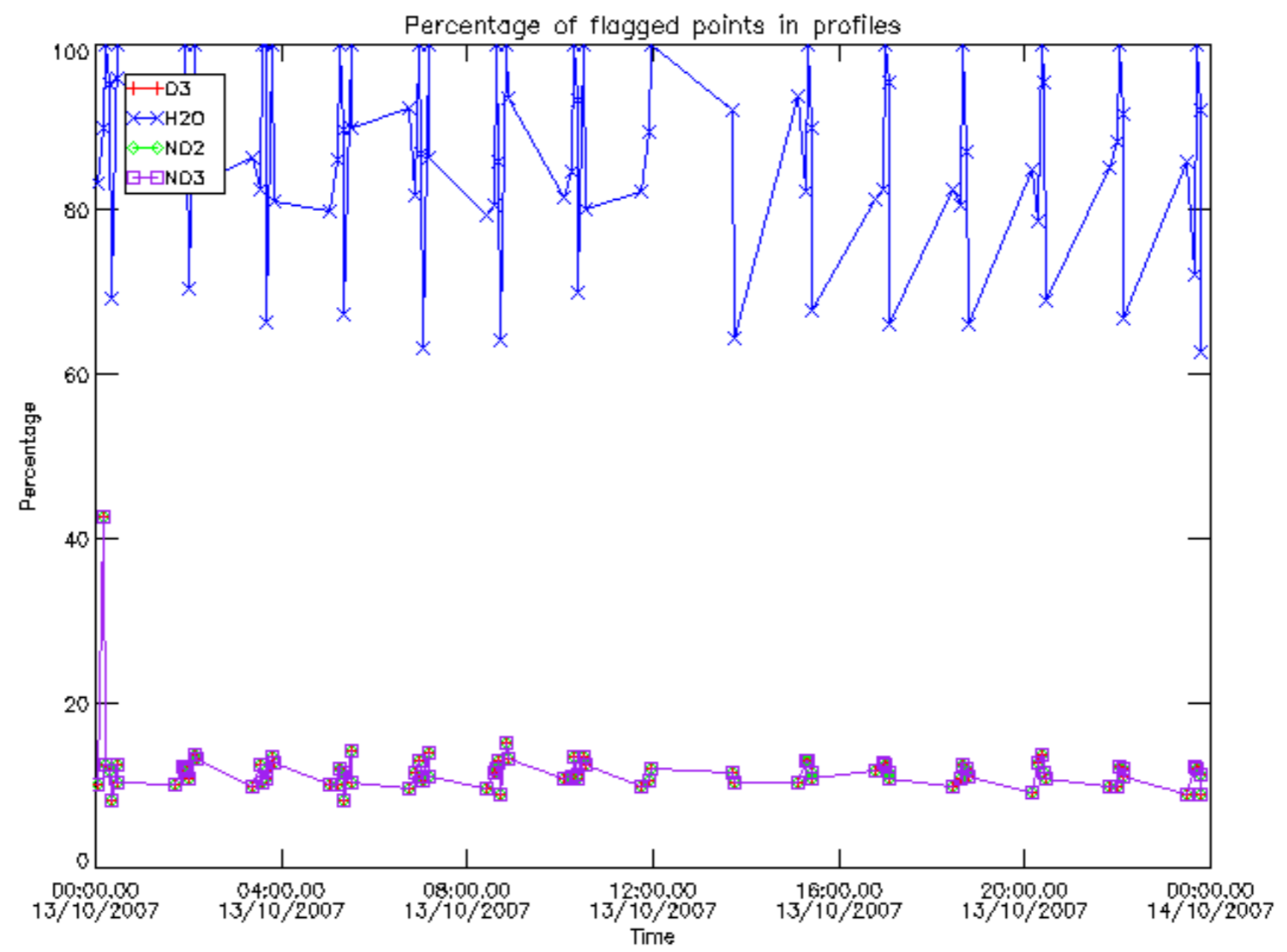
The colorbar represents the latitude.



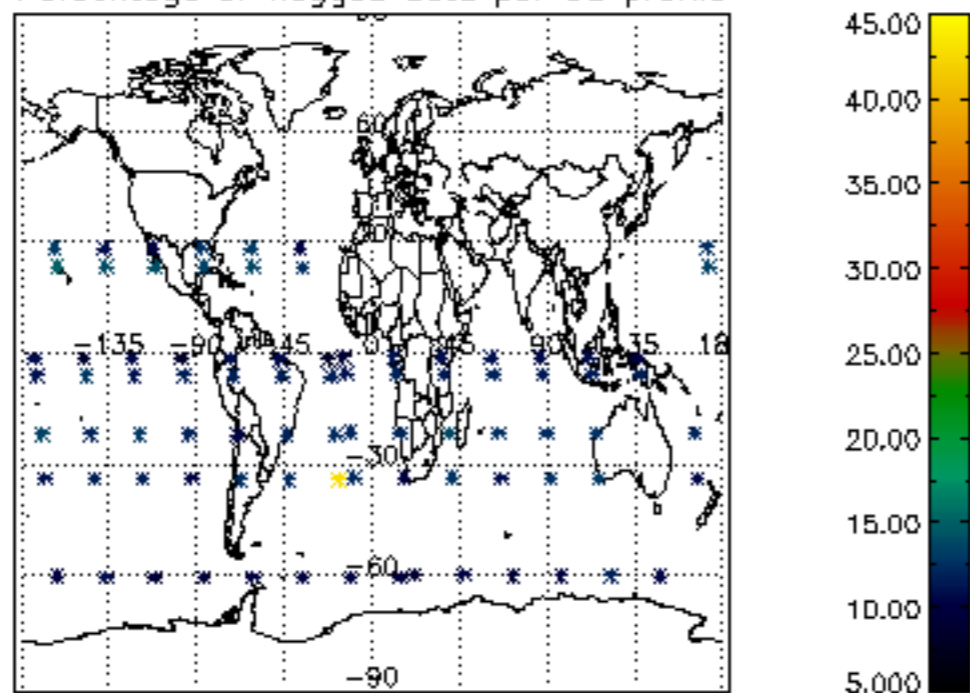
6. Auxiliary Data Files used for the production reported in section 2

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.

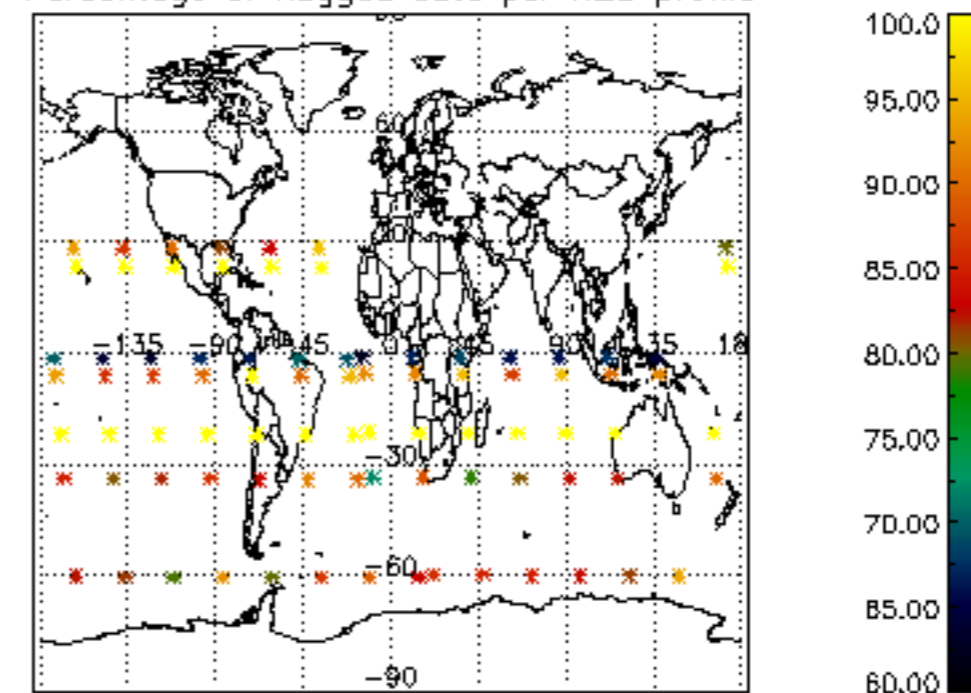
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	13-OCT-2007 00:01:25
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	13-OCT-2007 00:01:25
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	13-OCT-2007 00:01:25



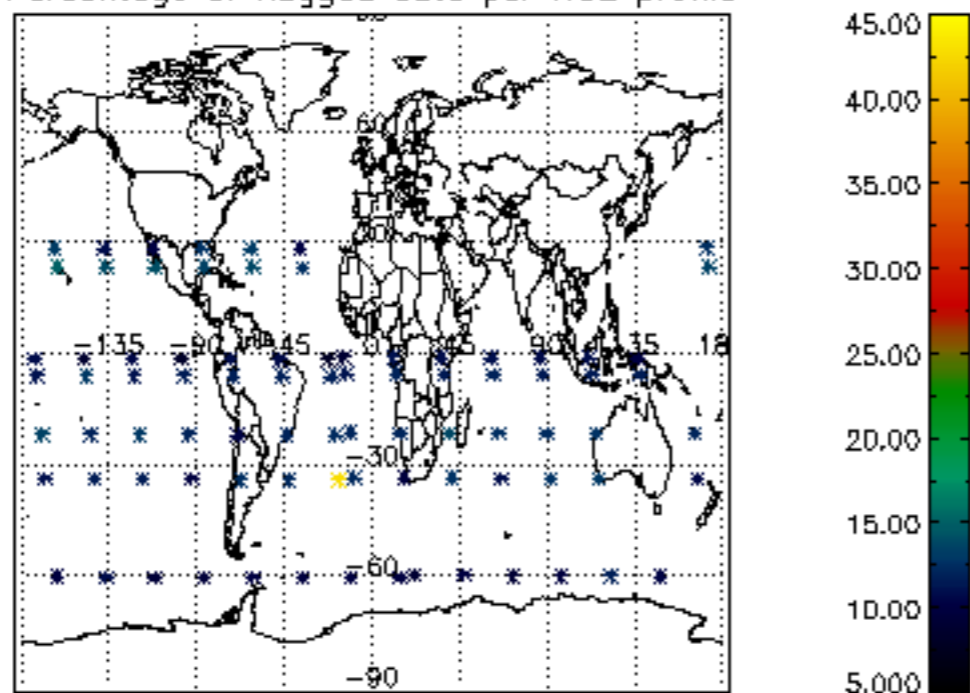
Percentage of flagged data per D3 profile



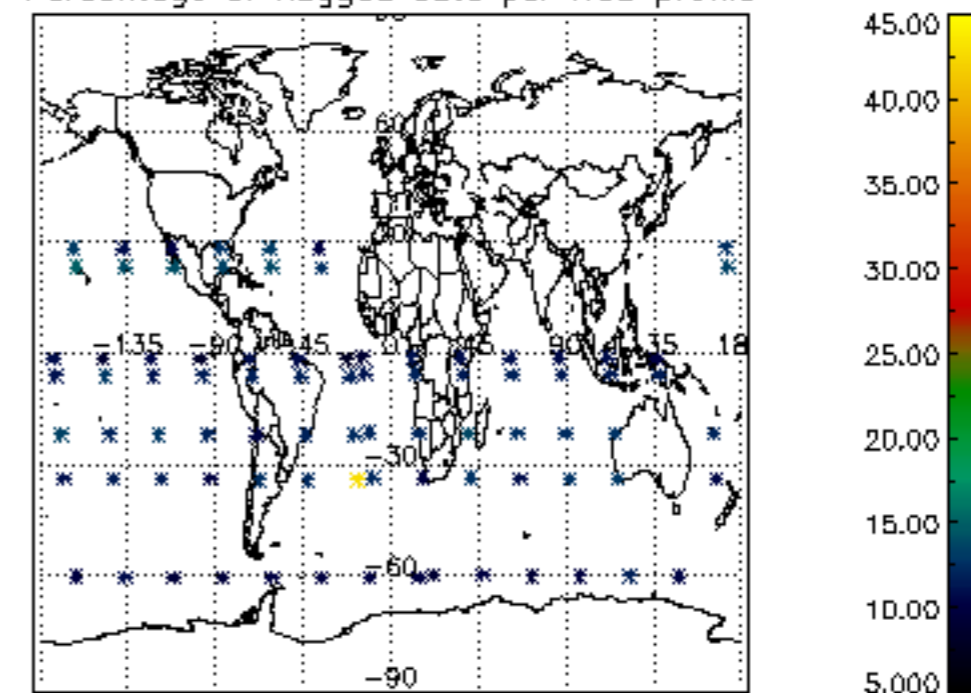
Percentage of flagged data per H2O profile

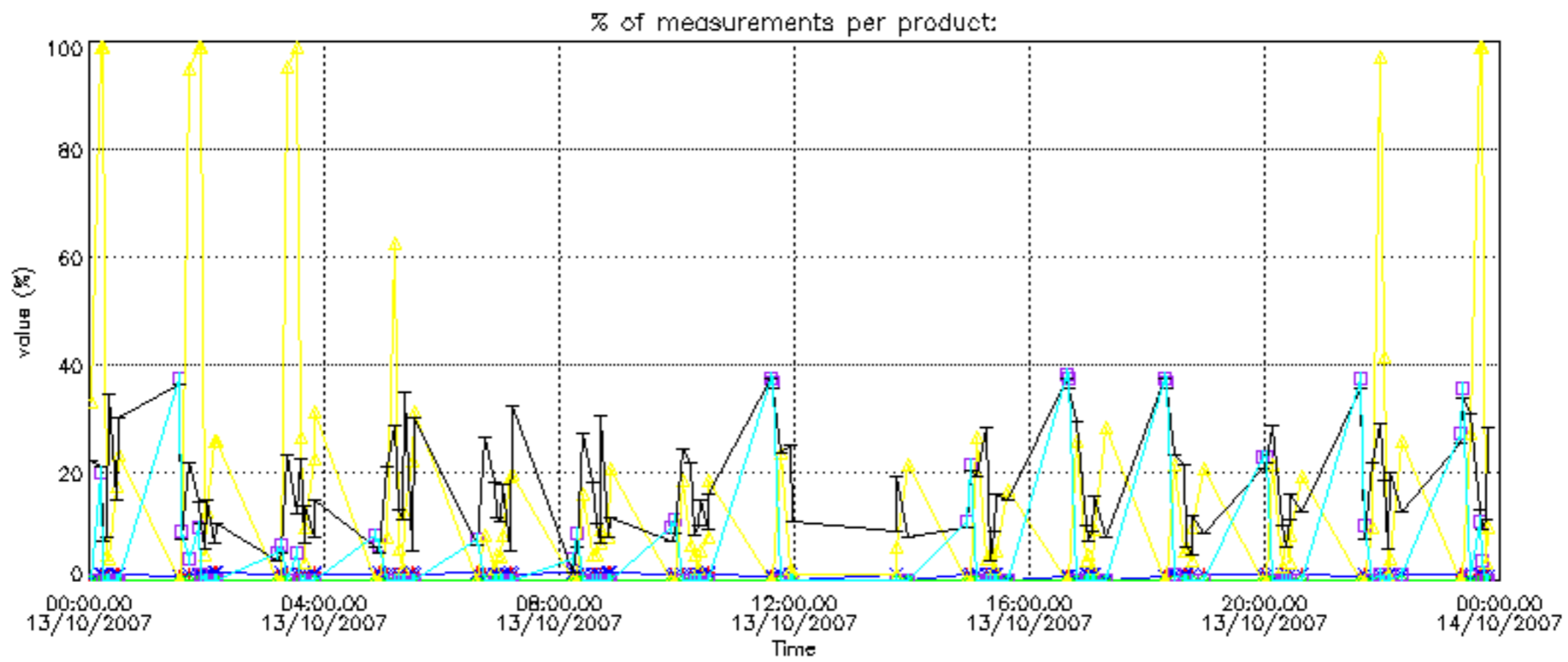


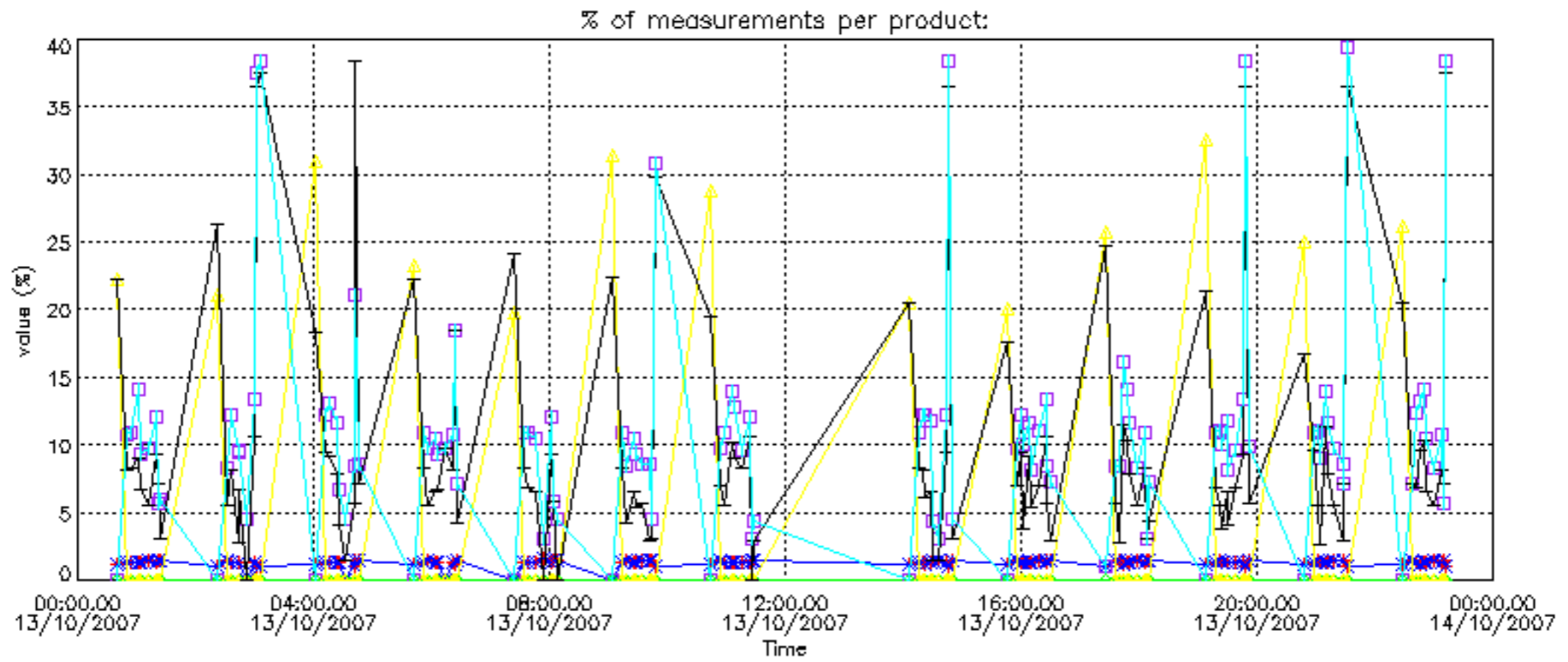
Percentage of flagged data per NO2 profile



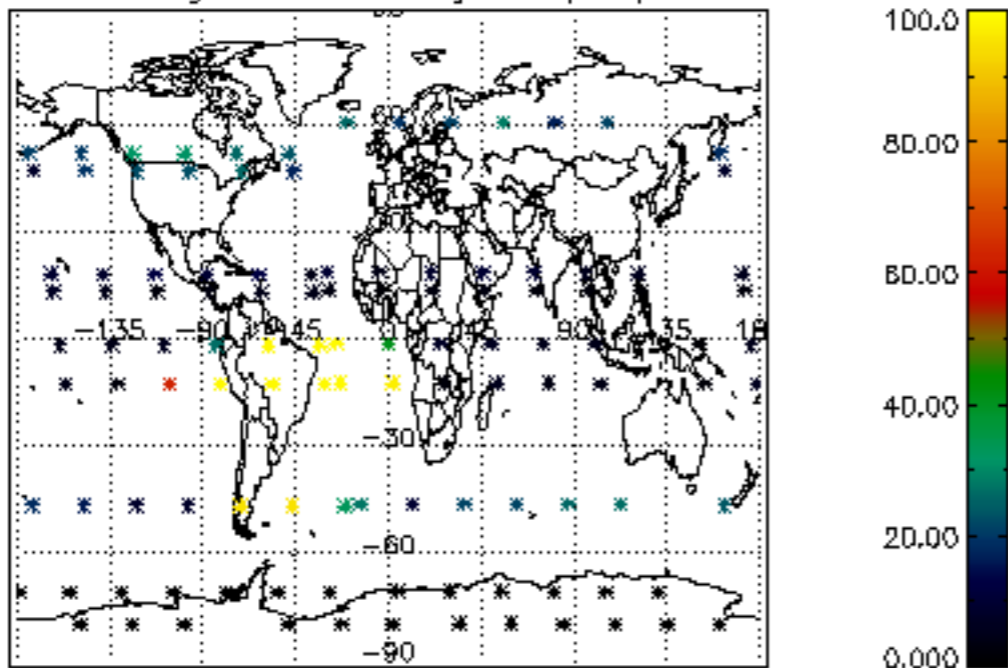
Percentage of flagged data per NO3 profile



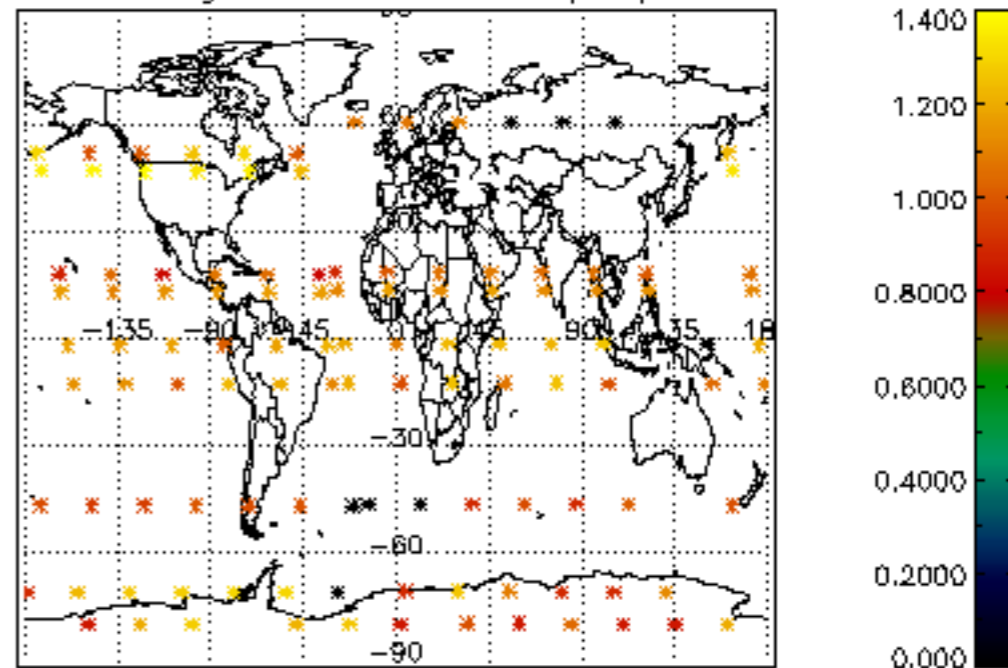




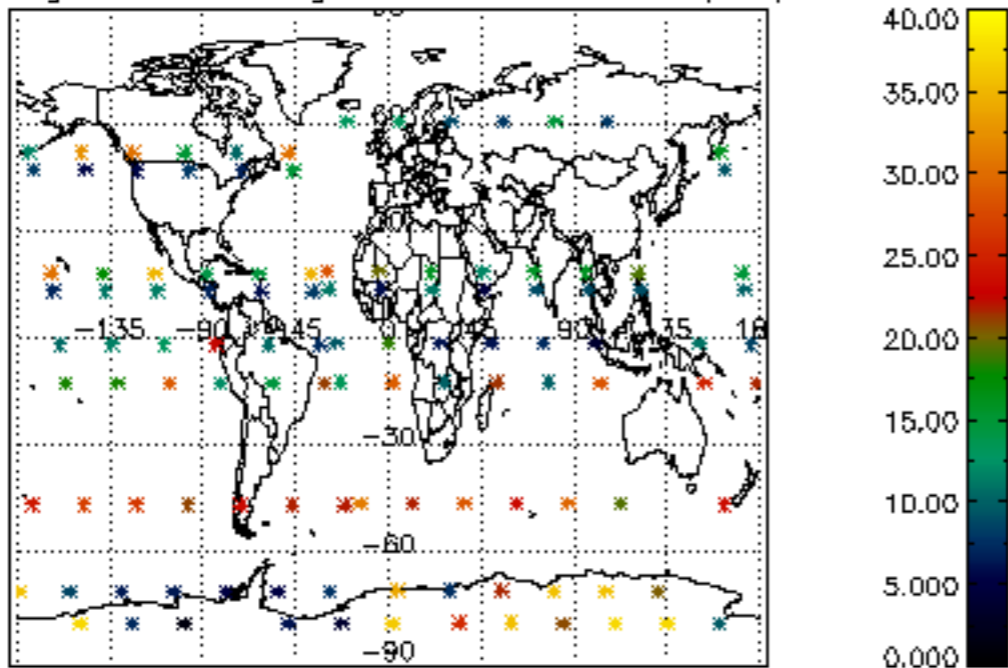
Percentage of cosmic ray hits per profile



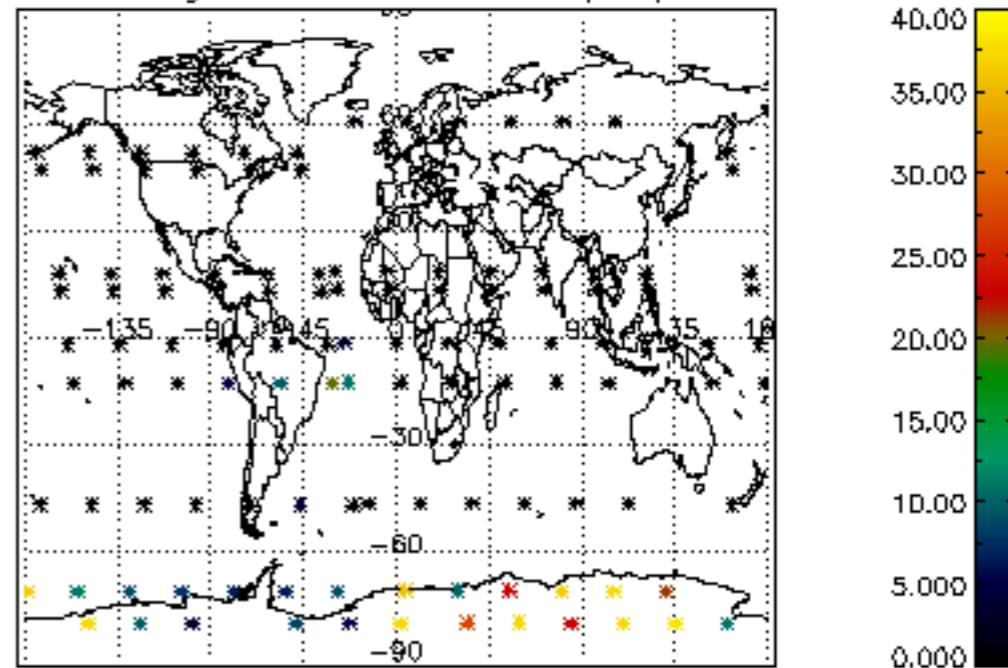
Percentage of datation errors per profile



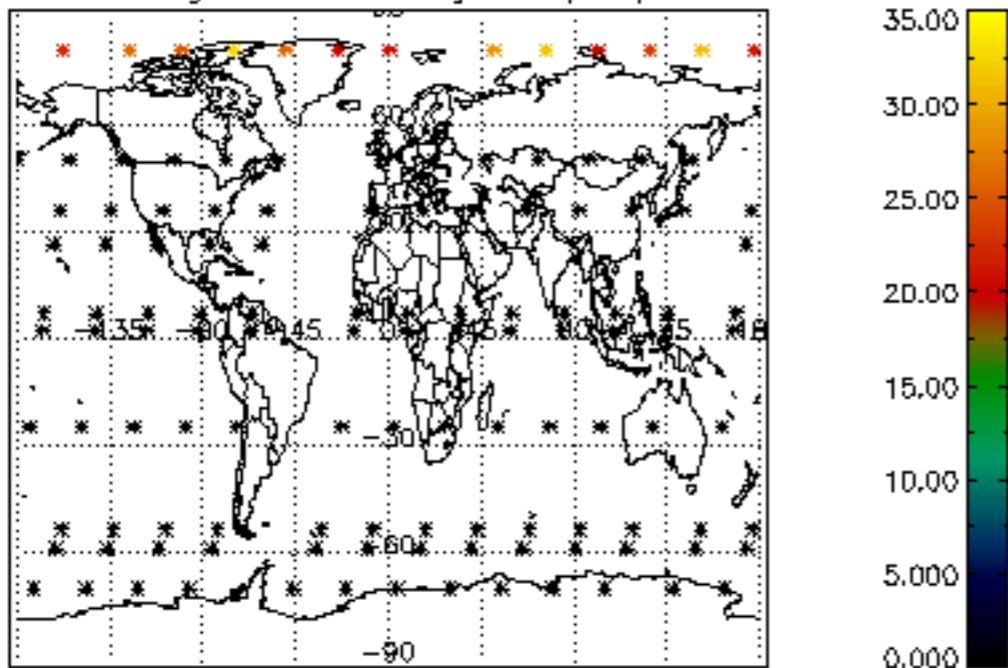
Percentage of star falling outside central band per profile



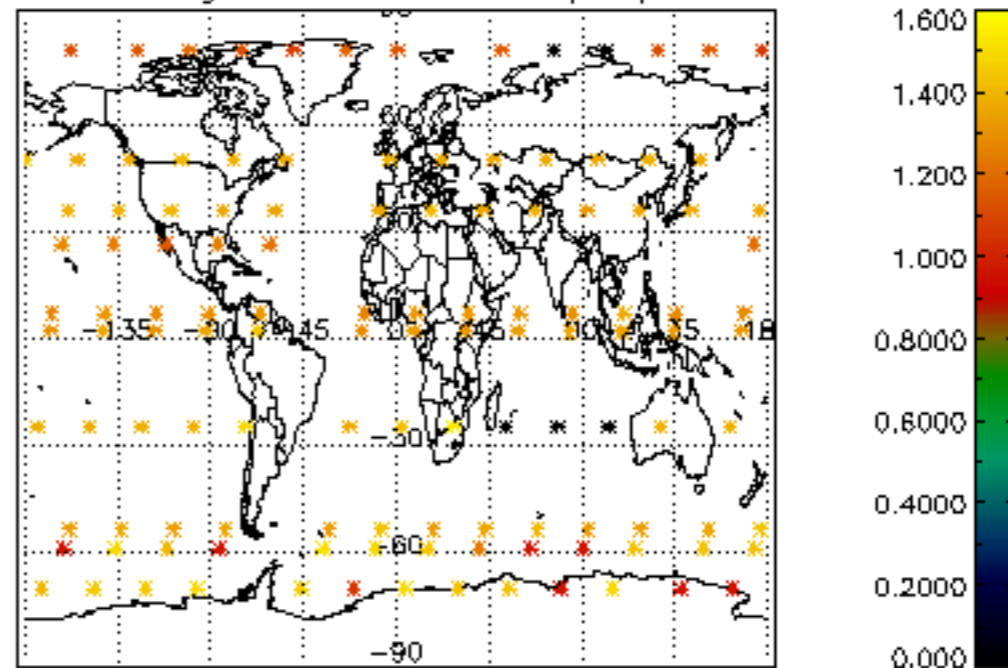
Percentage of saturation errors per profile



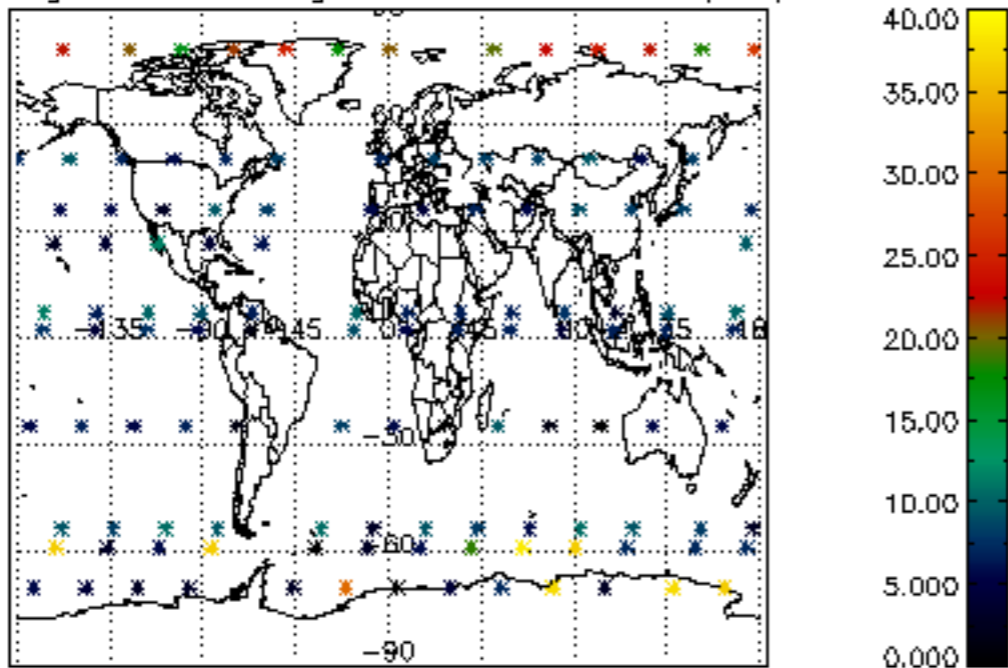
Percentage of cosmic ray hits per profile



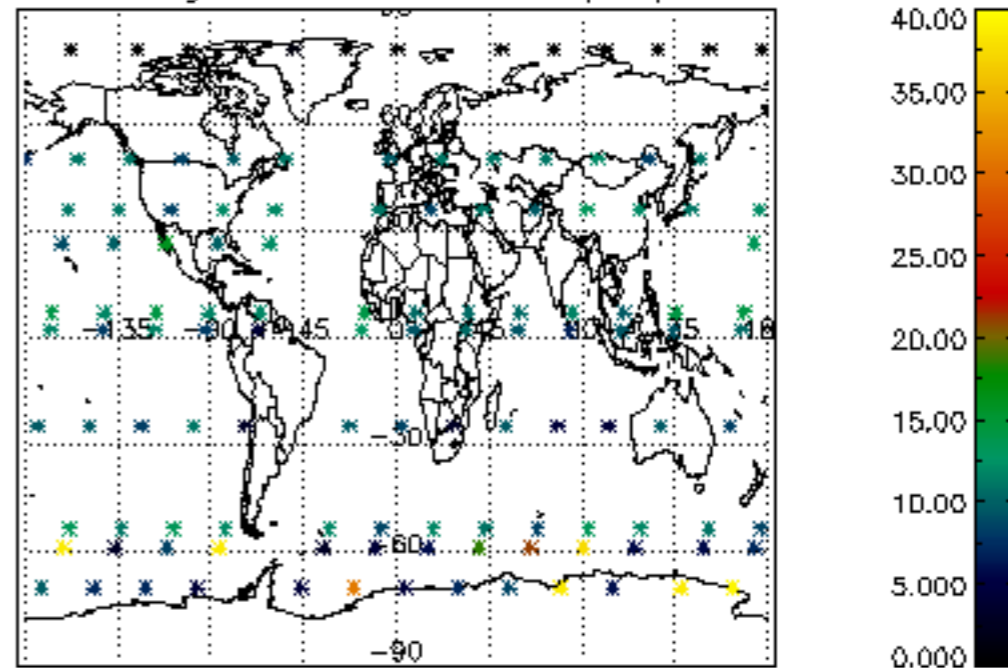
Percentage of datation errors per profile

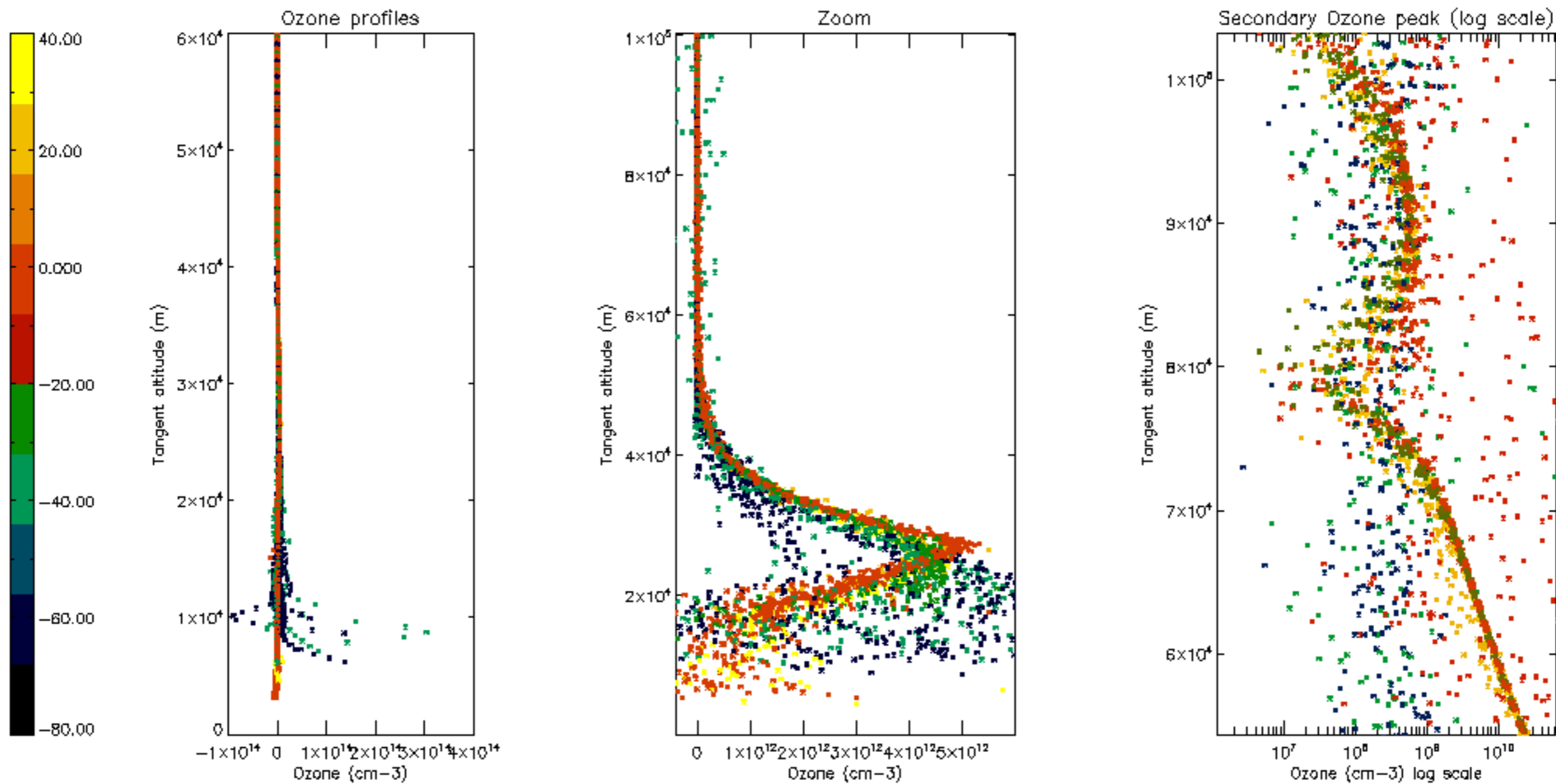


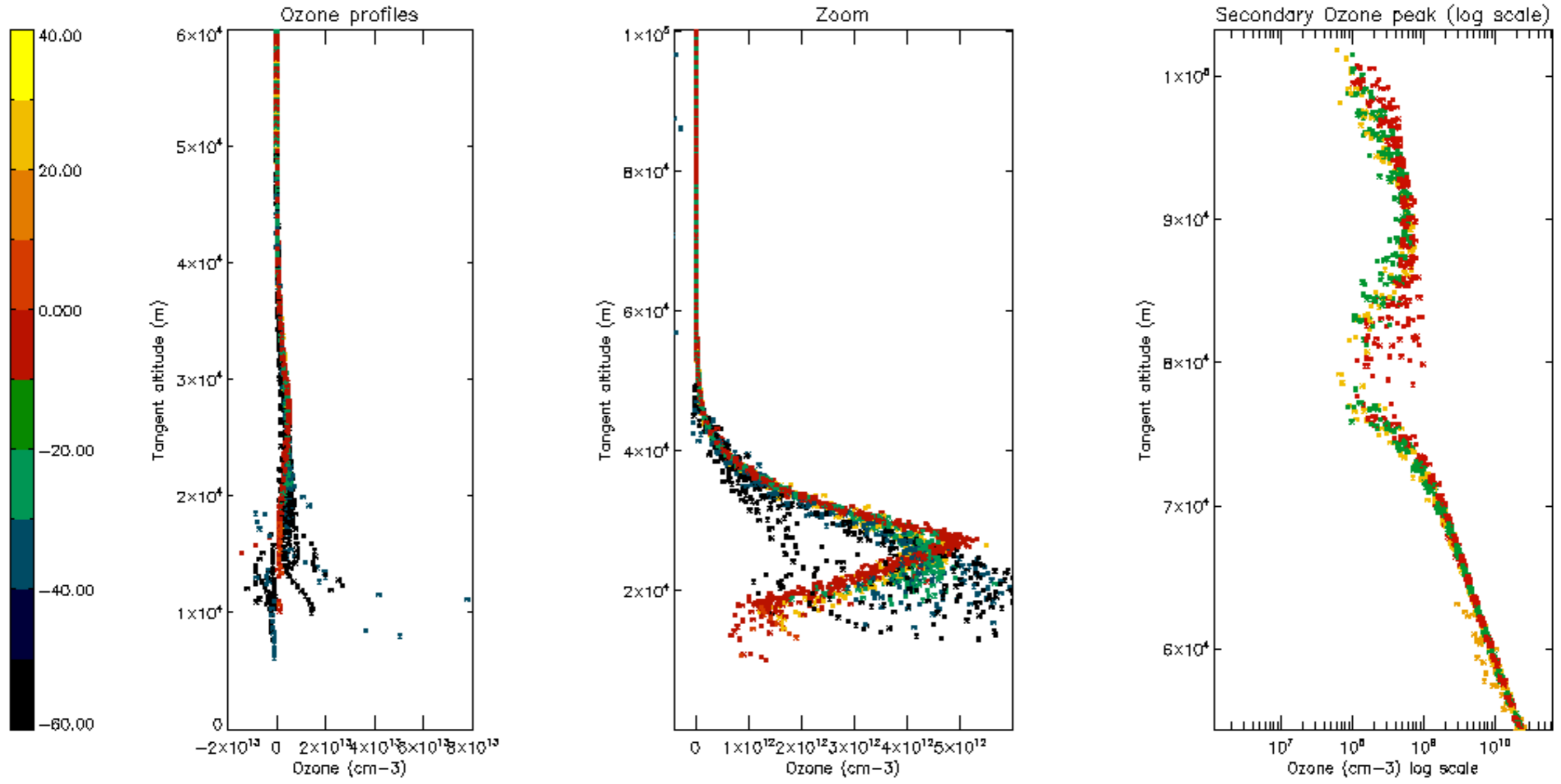
Percentage of star falling outside central band per profile

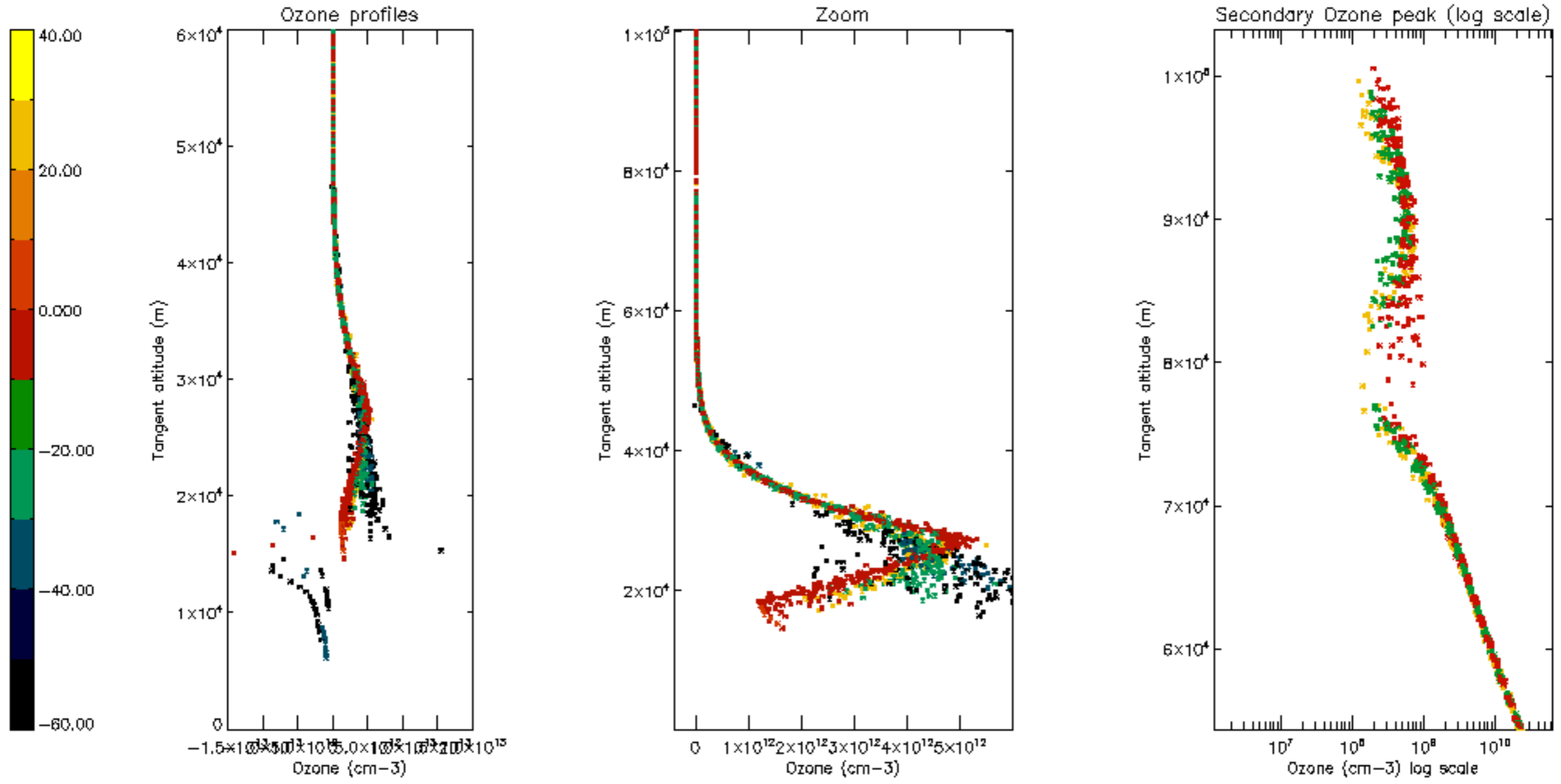


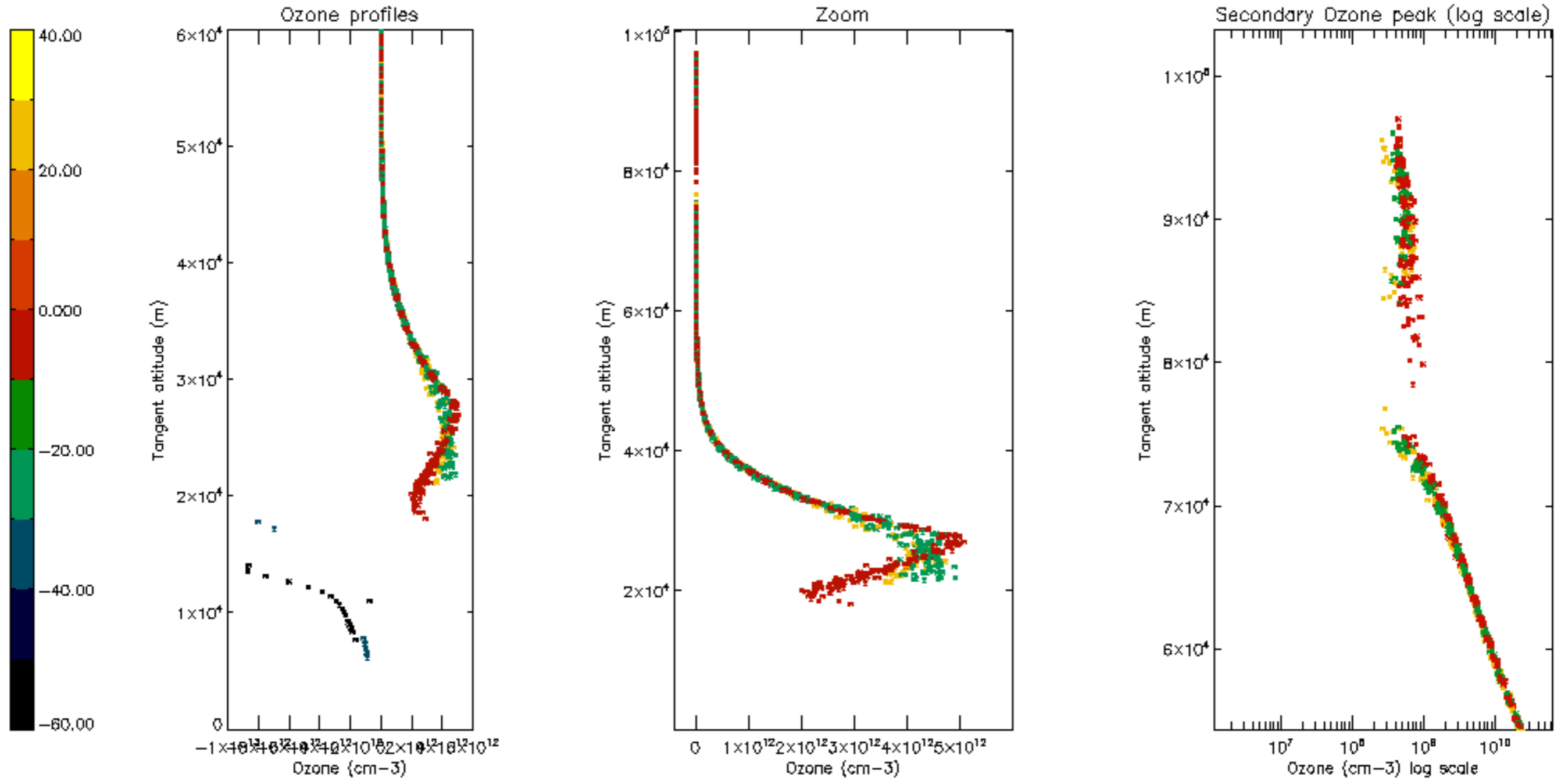
Percentage of saturation errors per profile

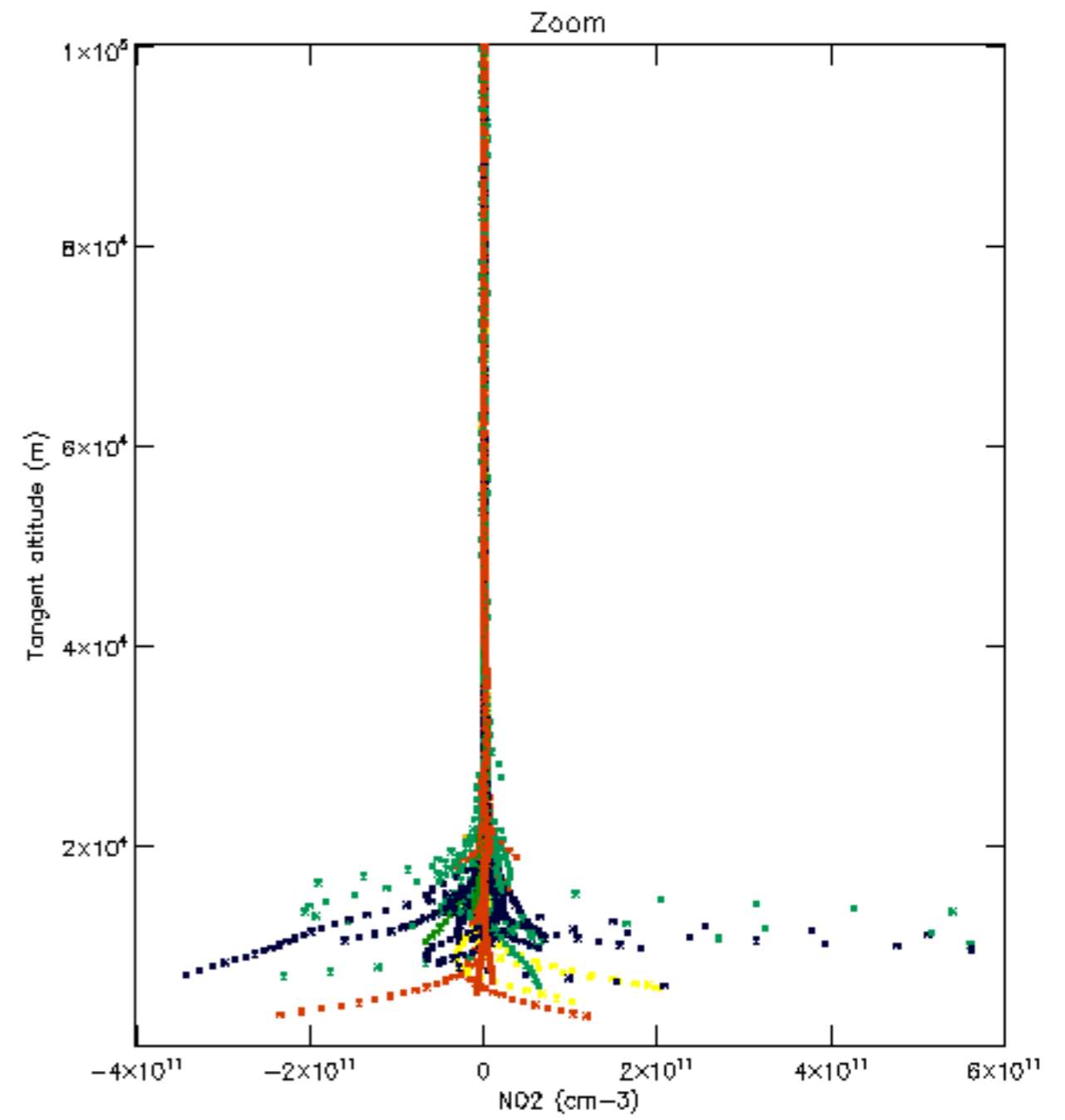
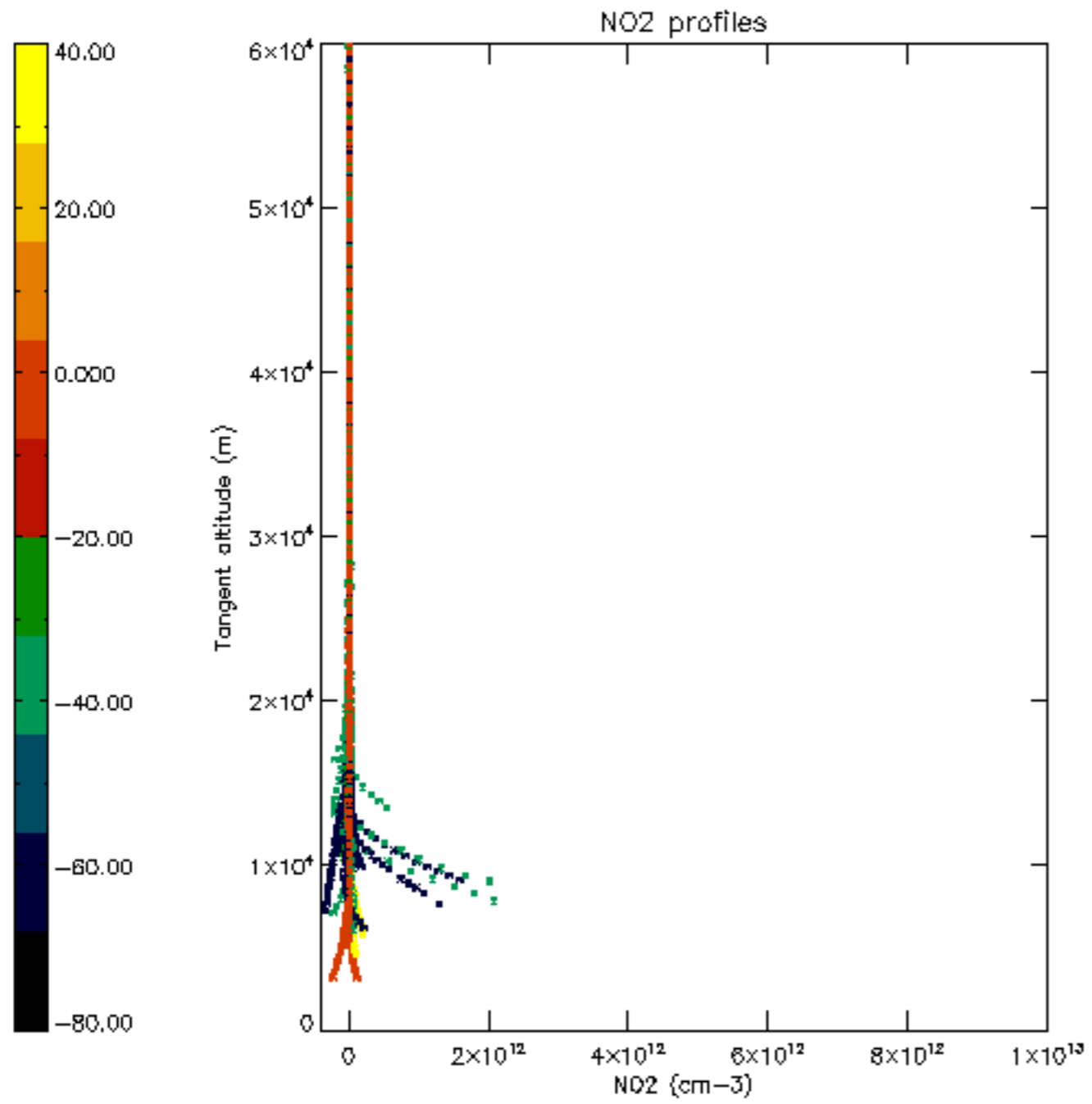


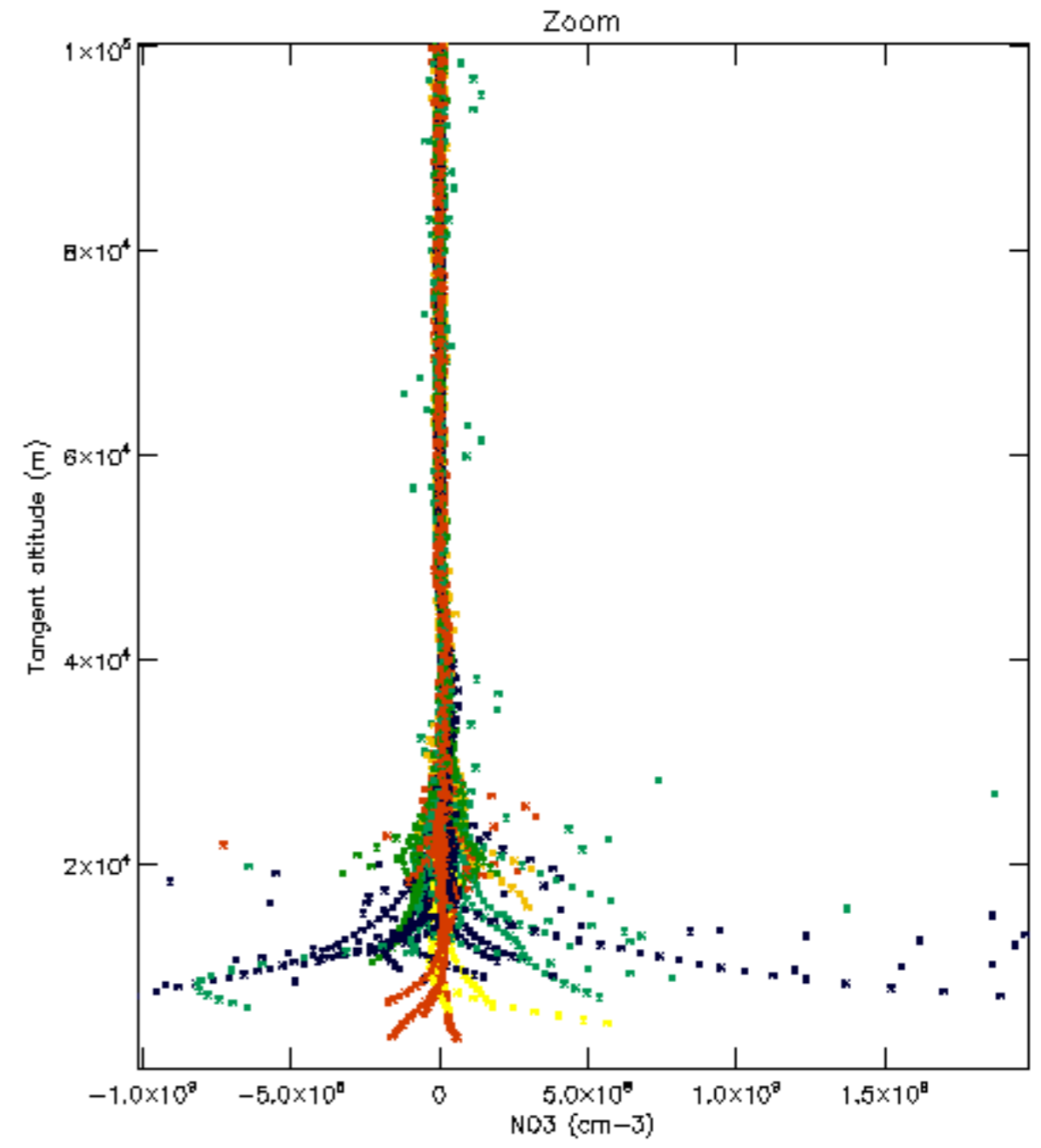
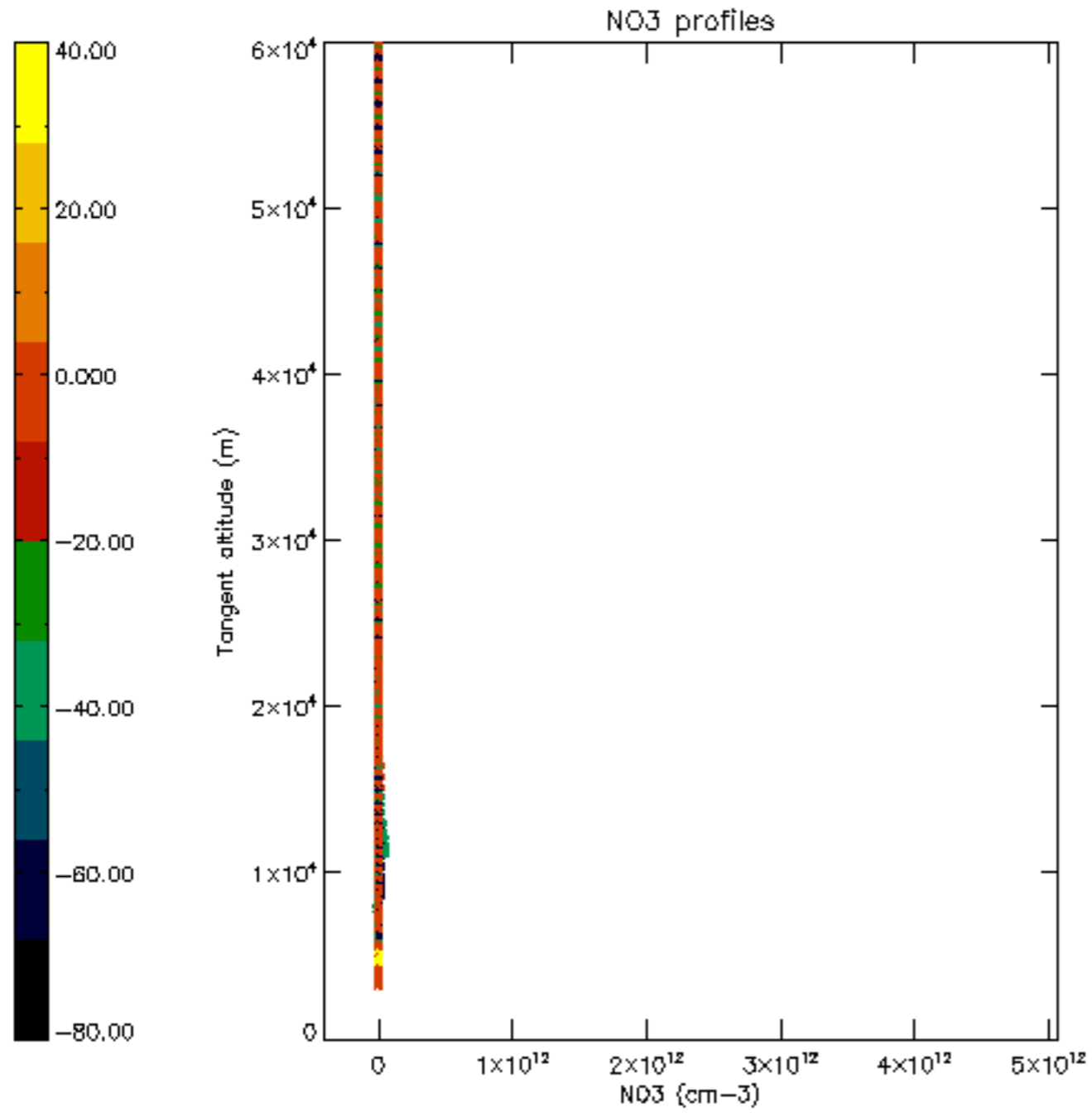


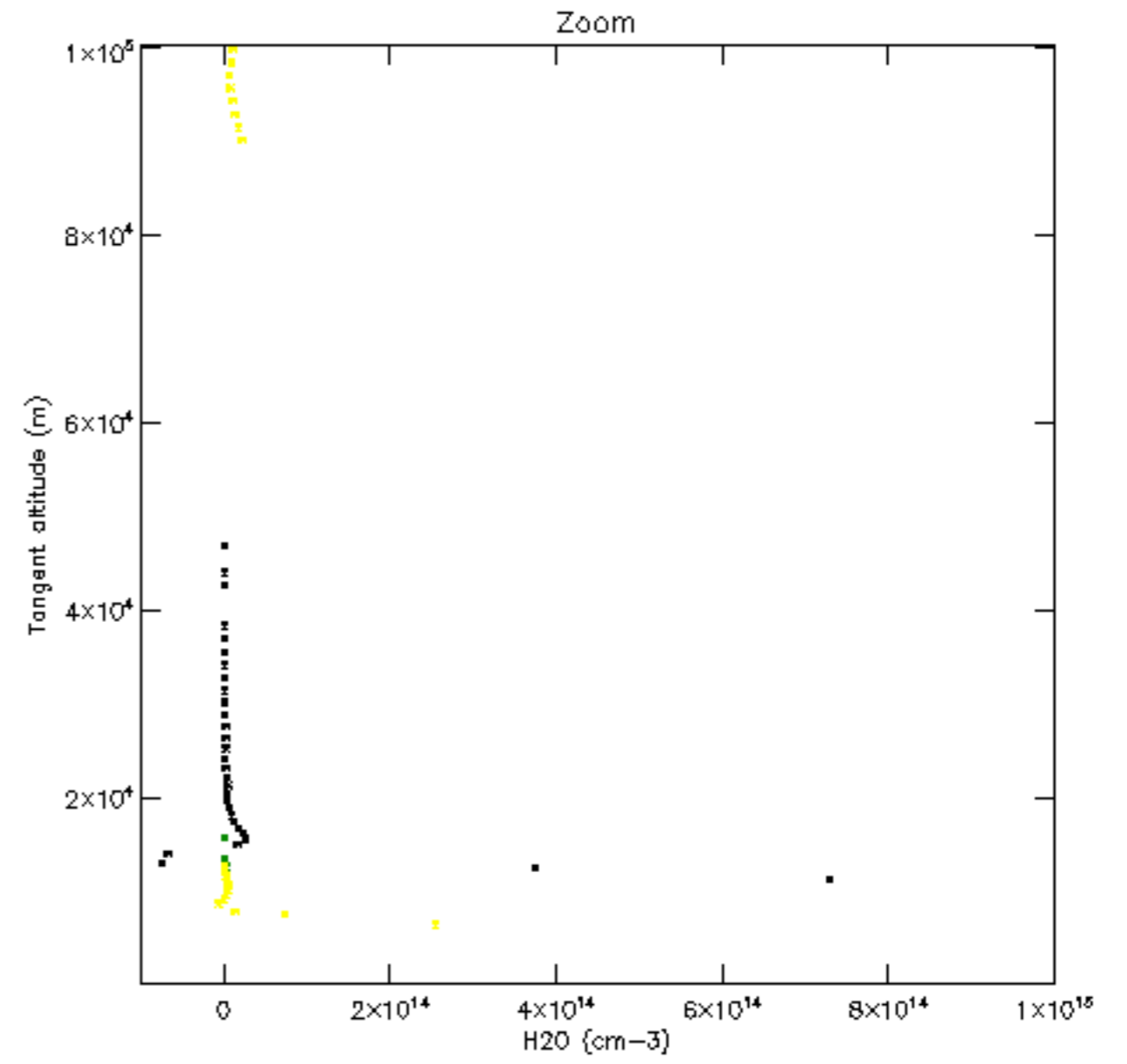
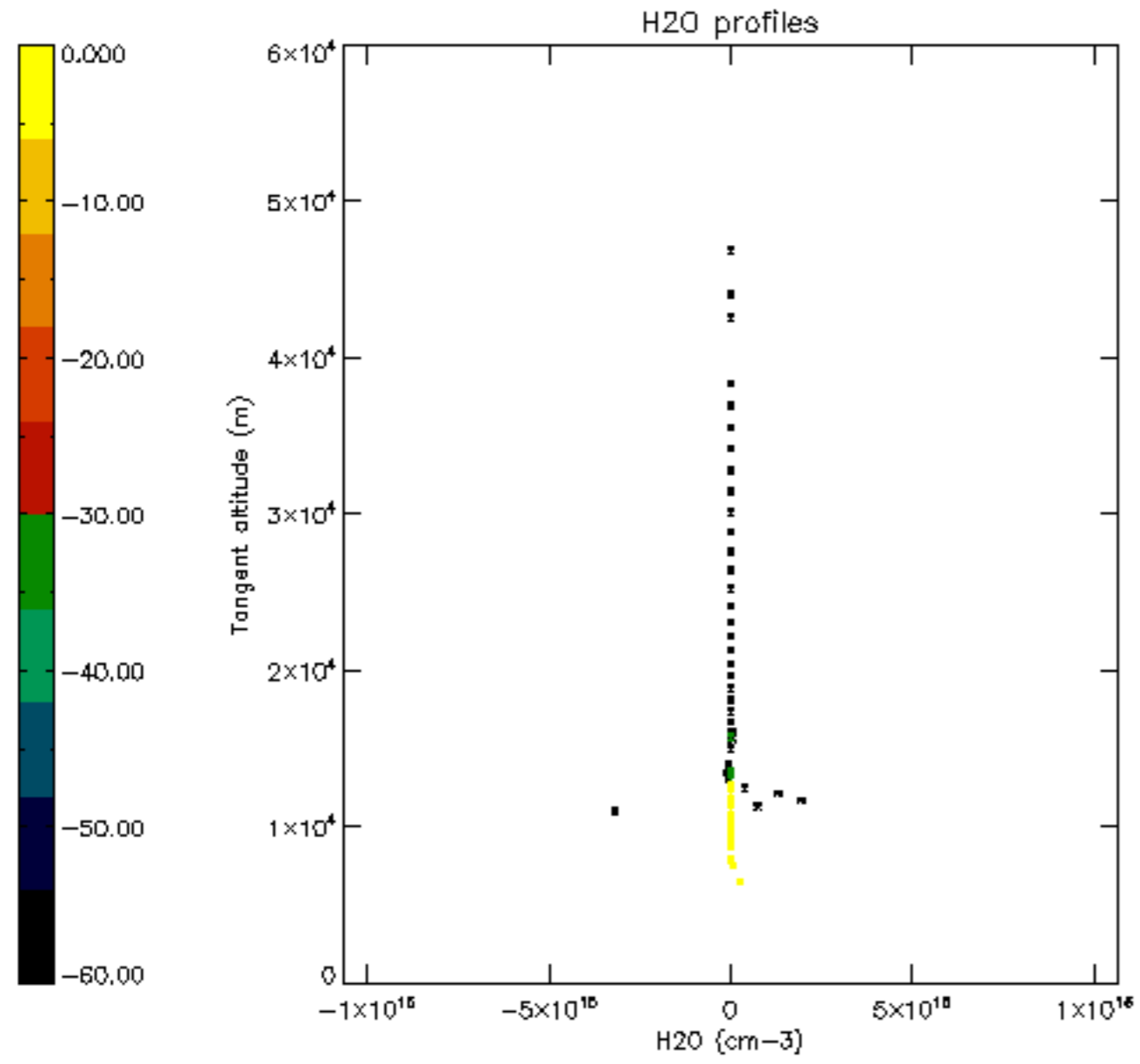


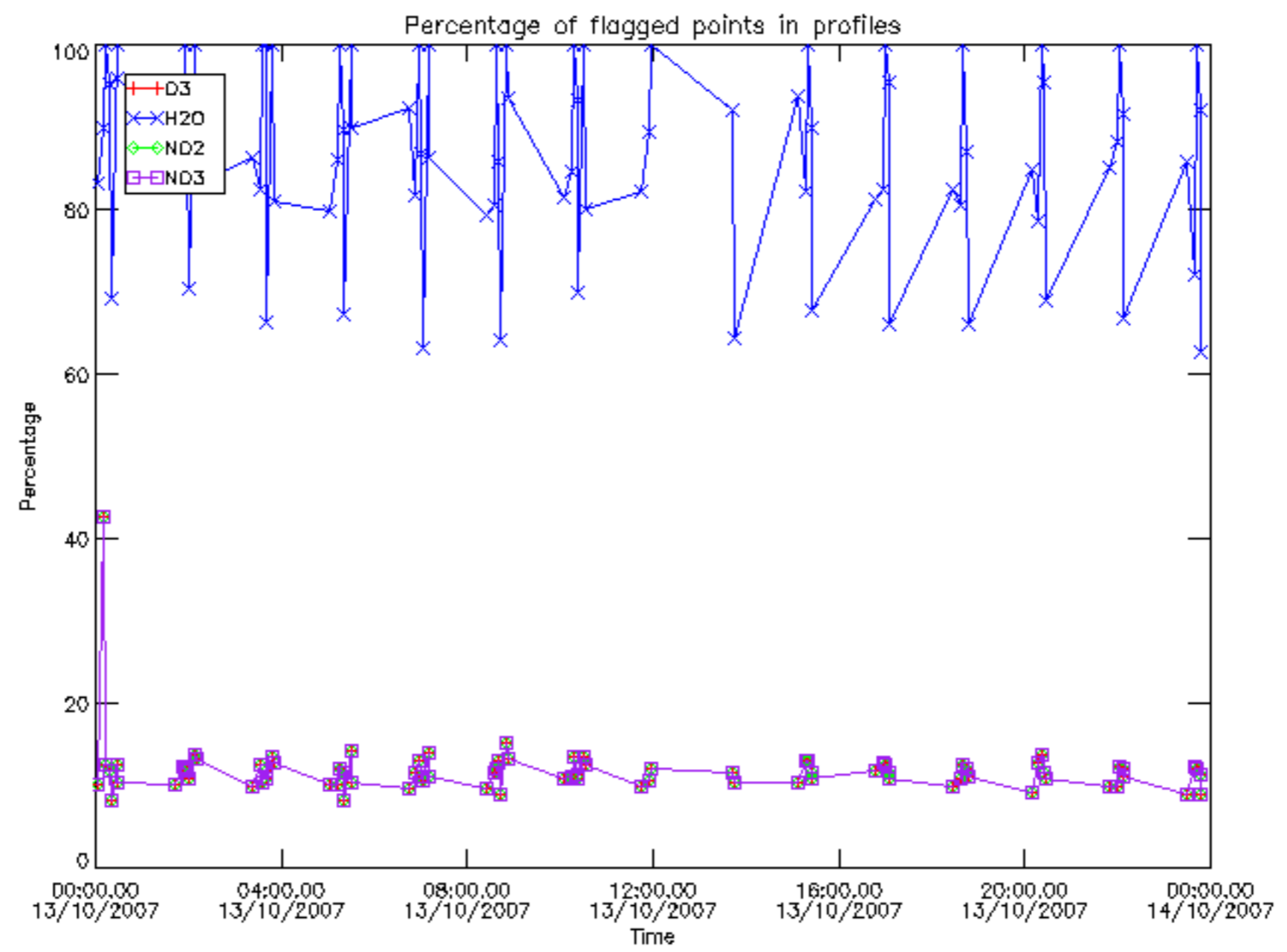




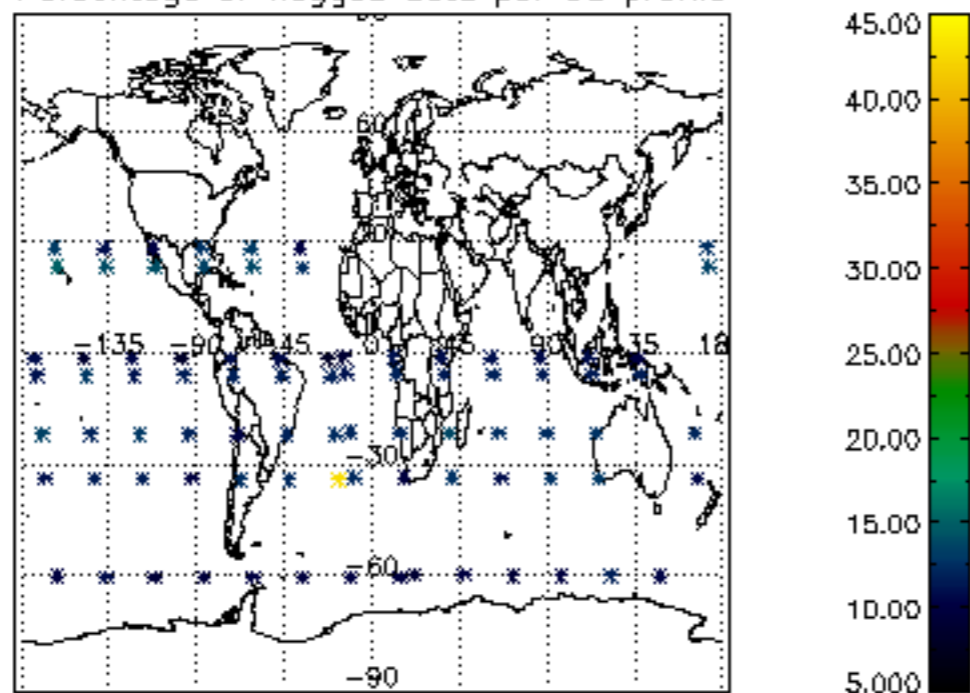




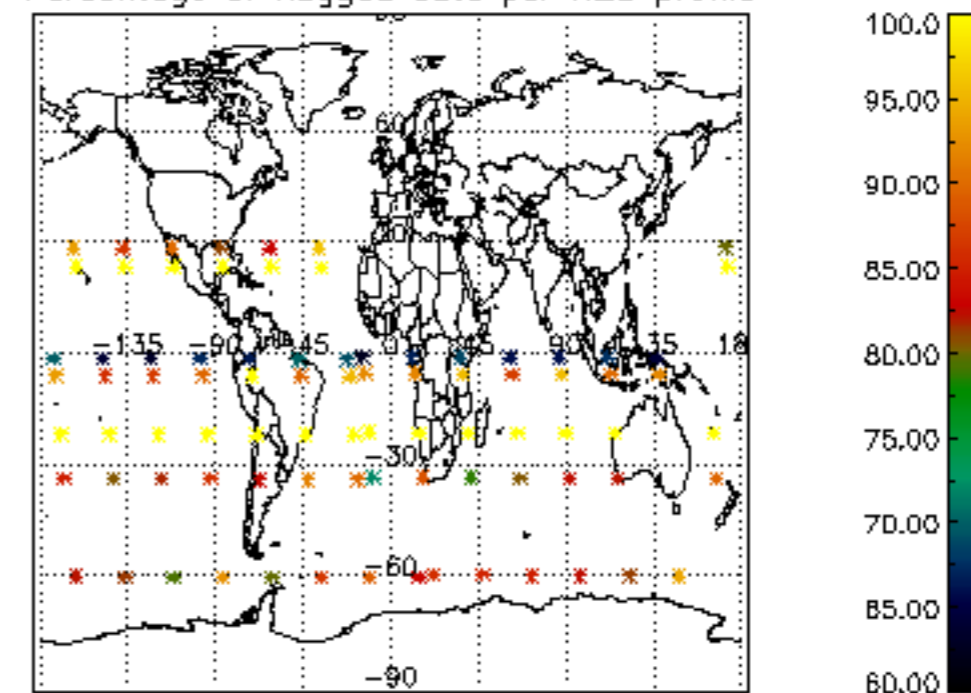




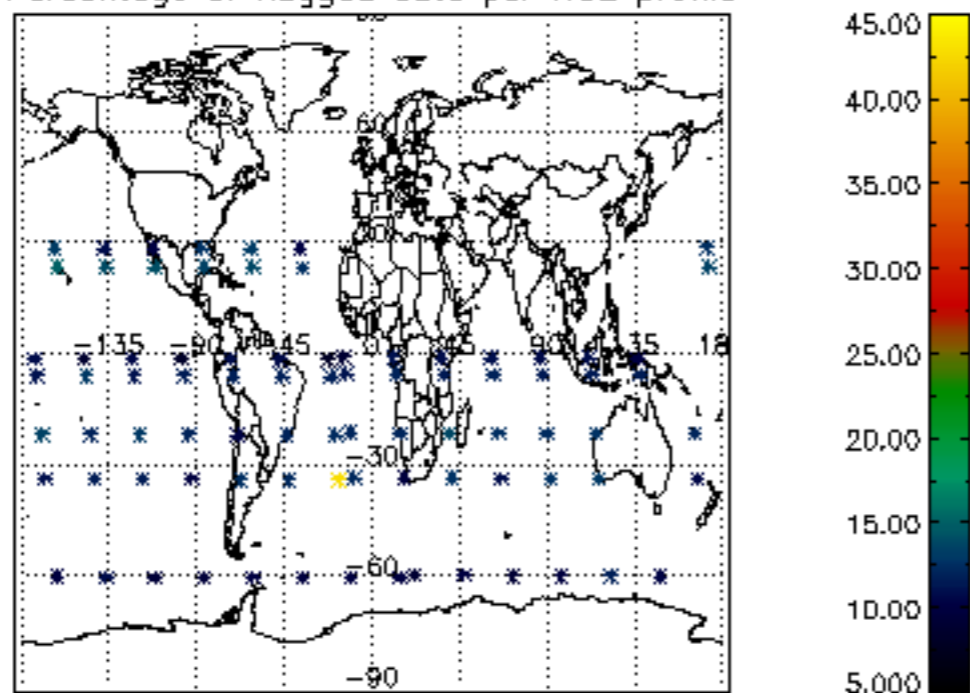
Percentage of flagged data per D3 profile



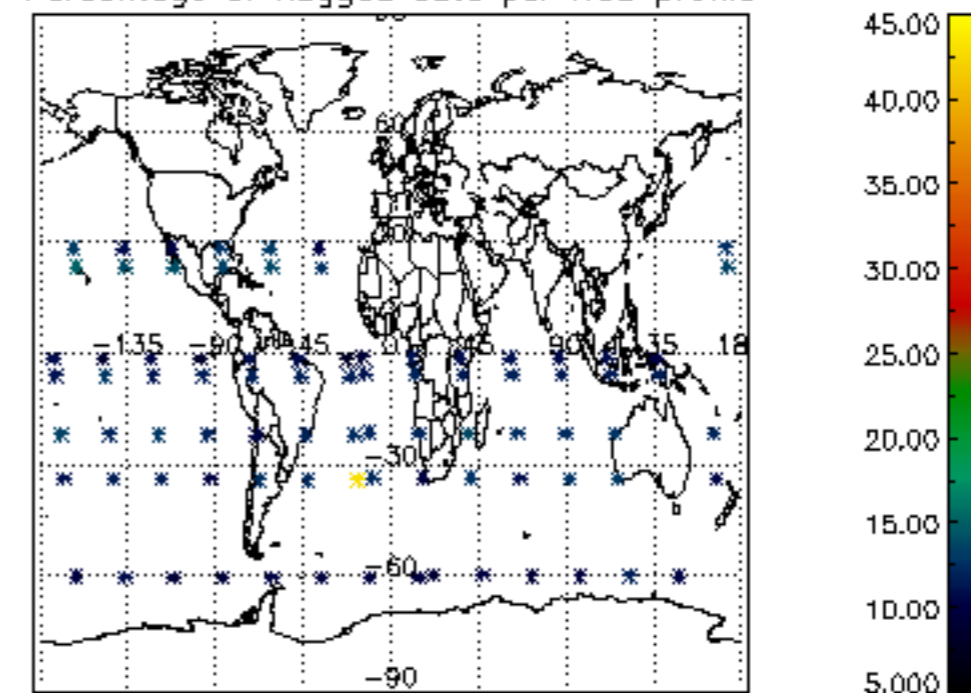
Percentage of flagged data per H2O profile

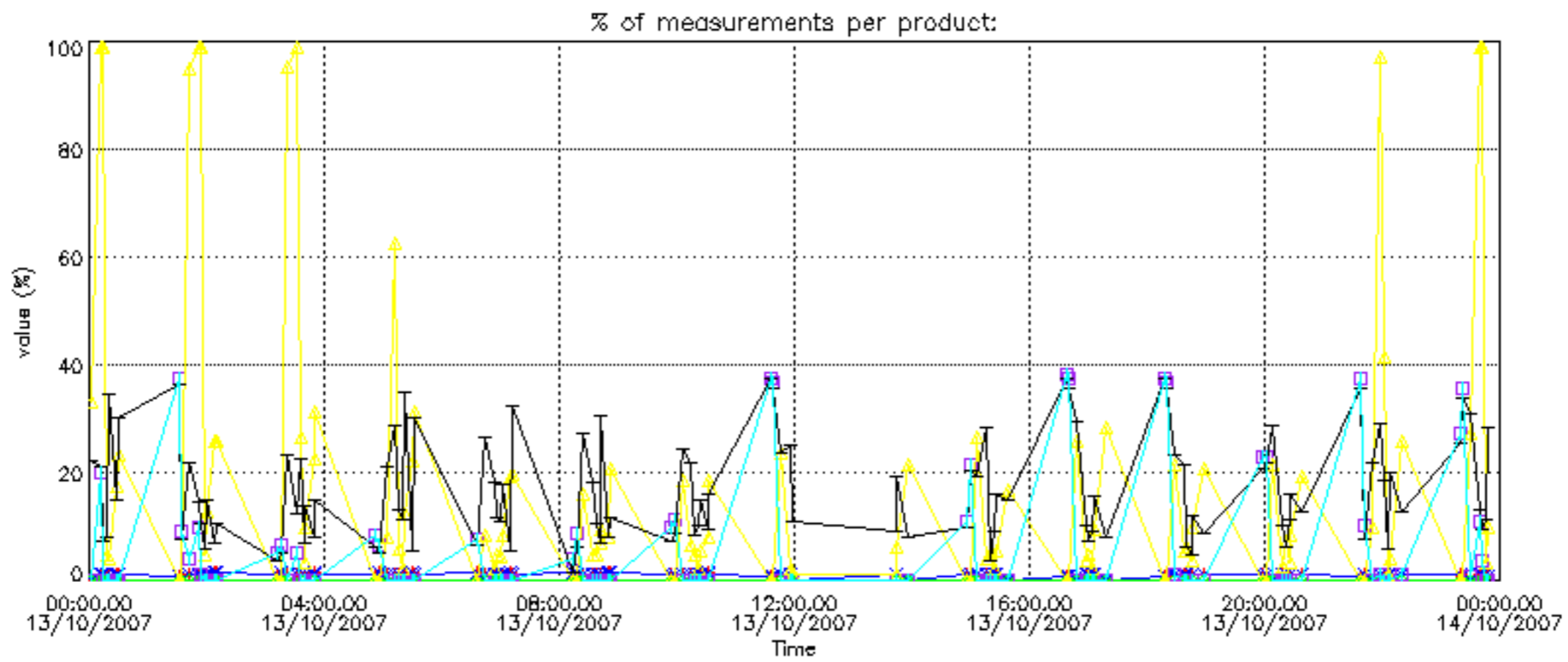


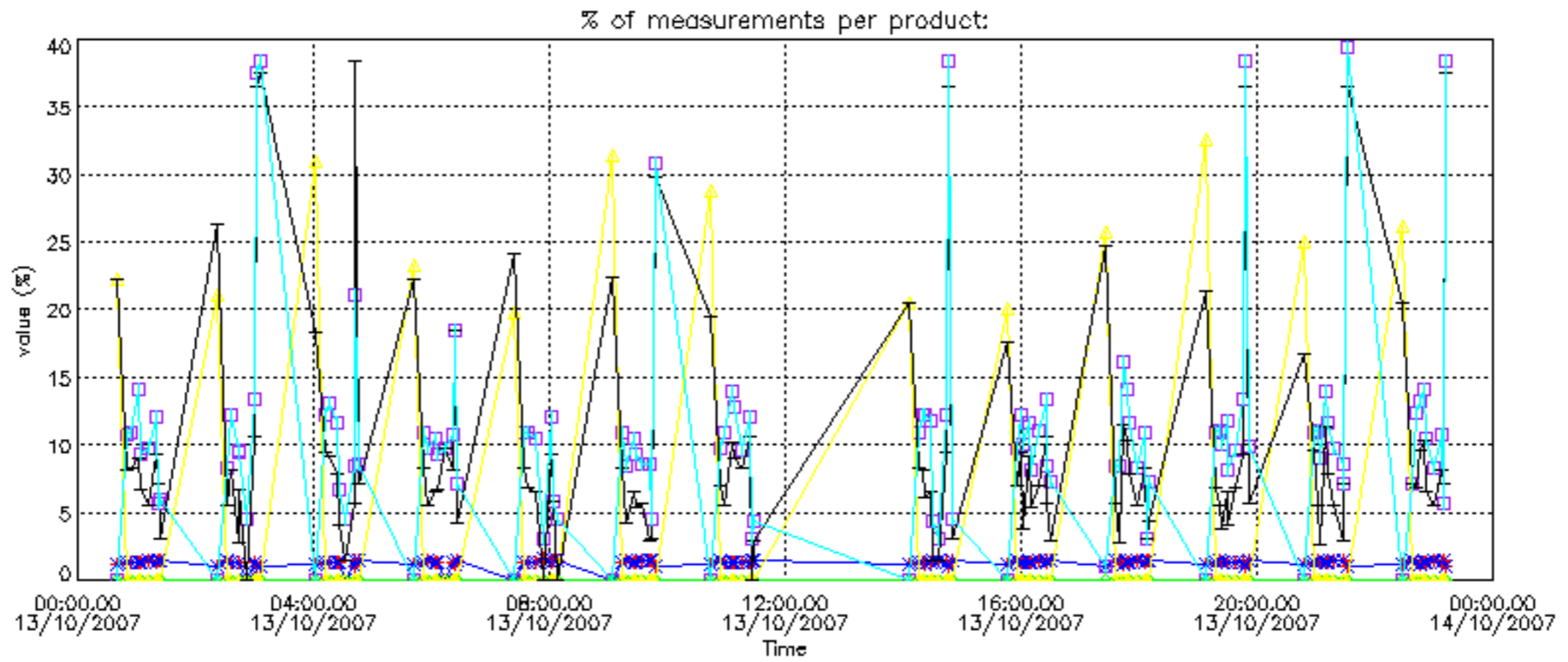
Percentage of flagged data per NO2 profile



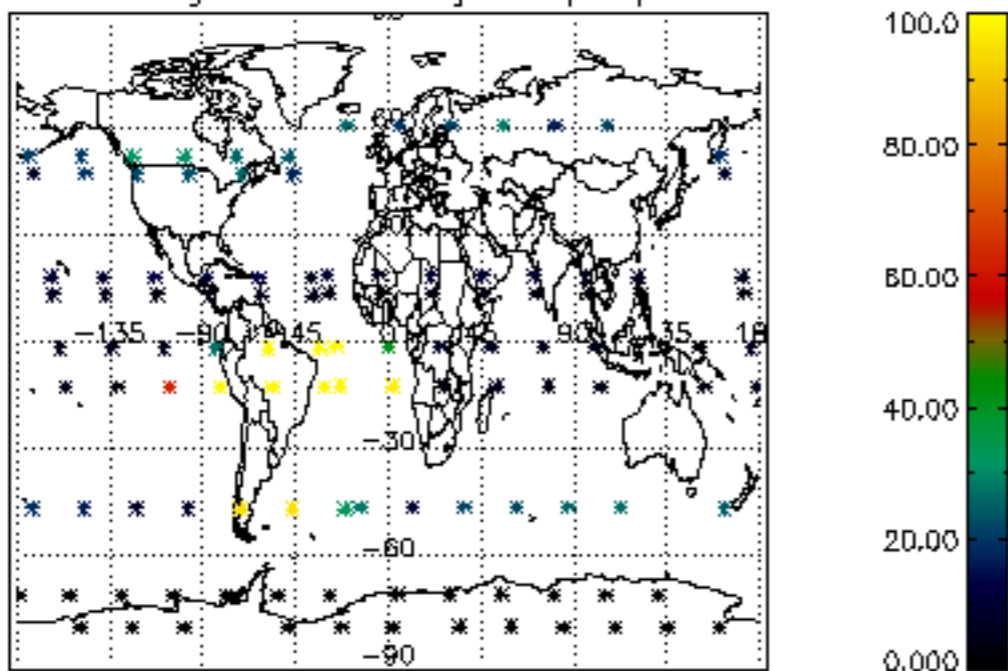
Percentage of flagged data per NO3 profile



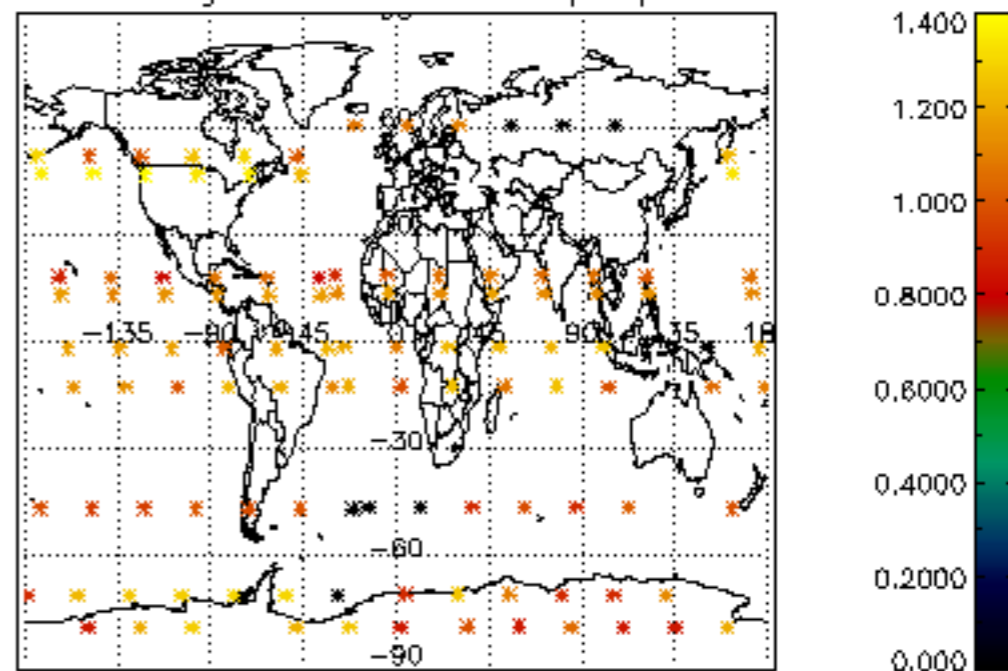




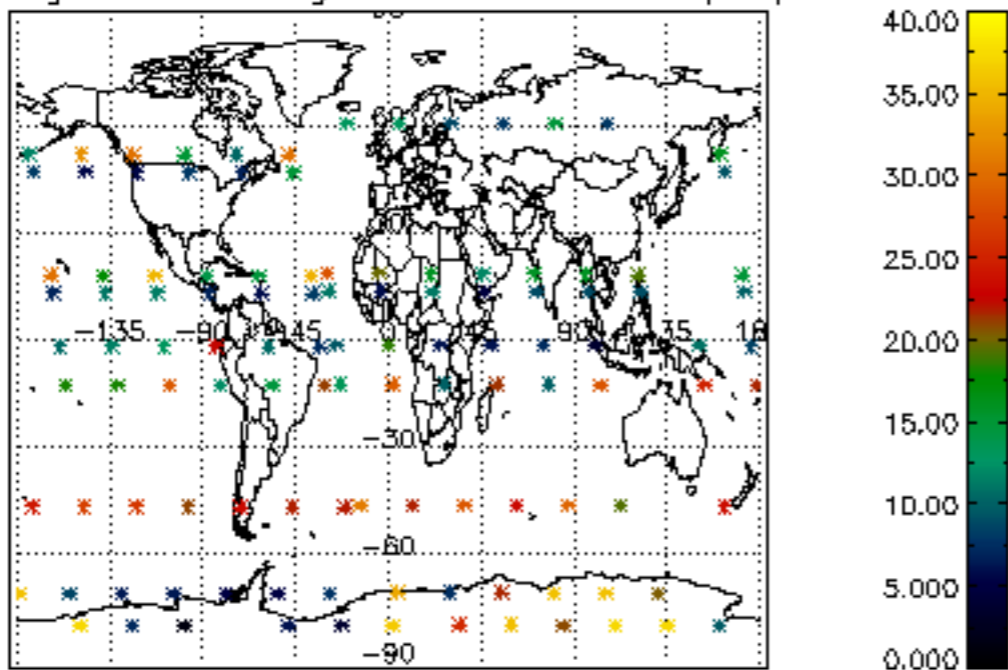
Percentage of cosmic ray hits per profile



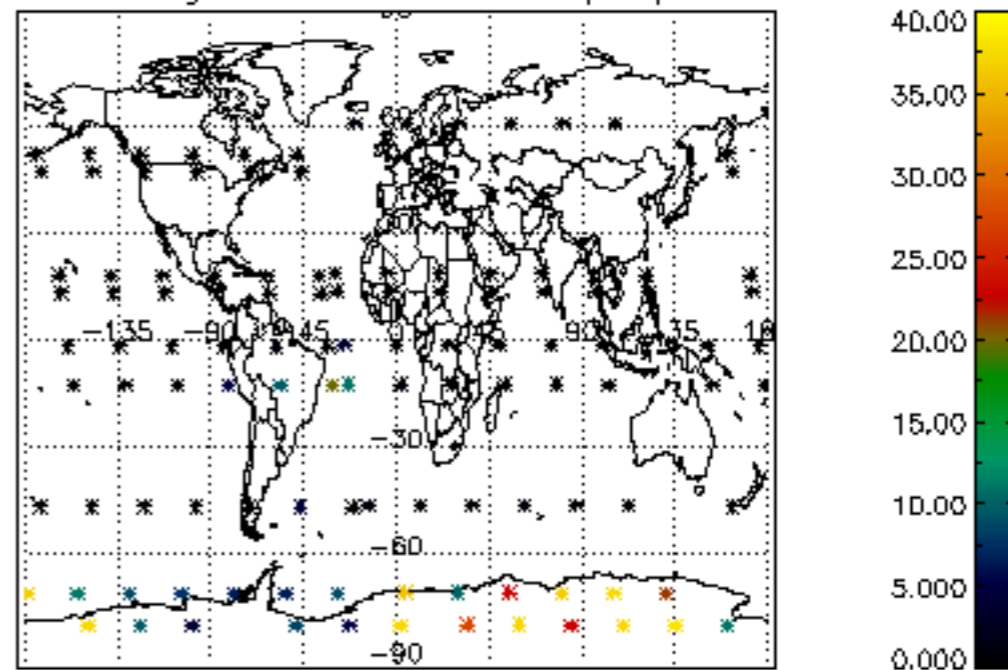
Percentage of datation errors per profile



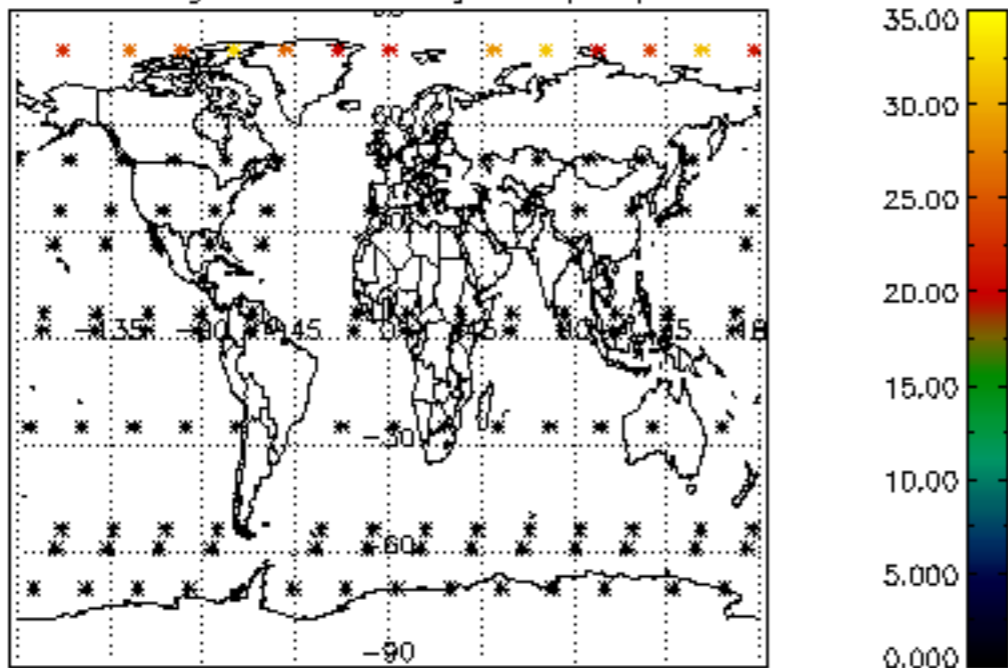
Percentage of star falling outside central band per profile



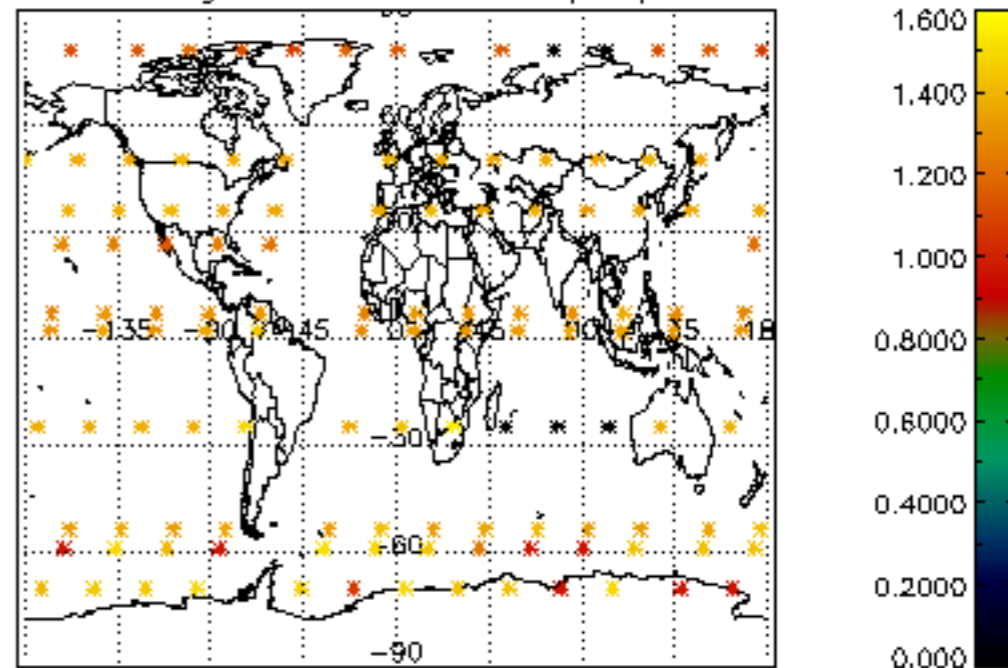
Percentage of saturation errors per profile



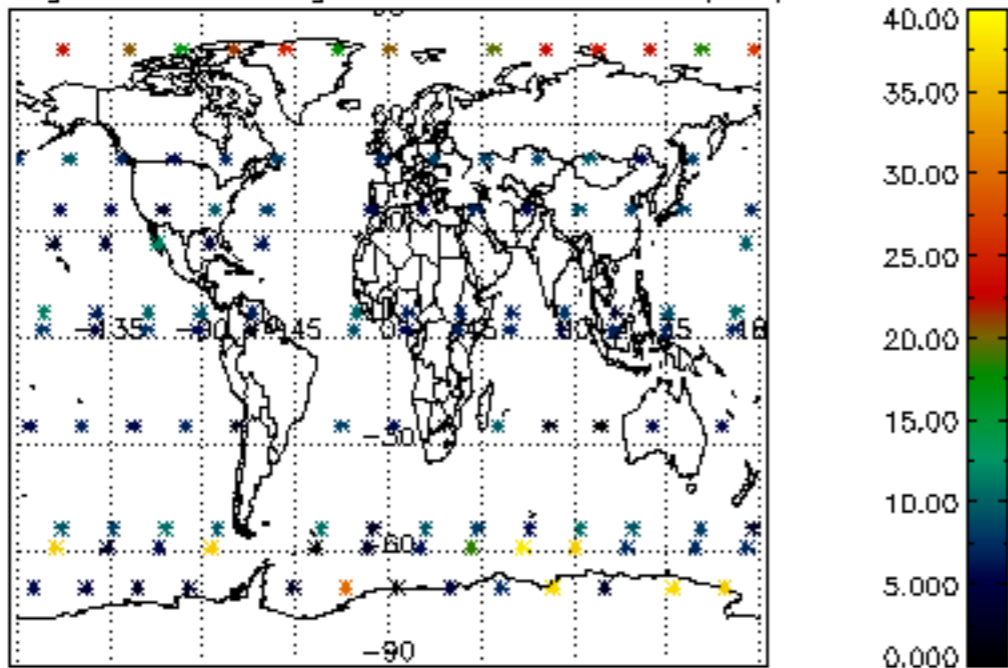
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

