

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	24APR2013 04:58:06
Data source version	GOMOS/6.01
Start time of products	14-10-2006 (14OCT2006 00:00:00)
Stop time of products	15-10-2006 (15OCT2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	250
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

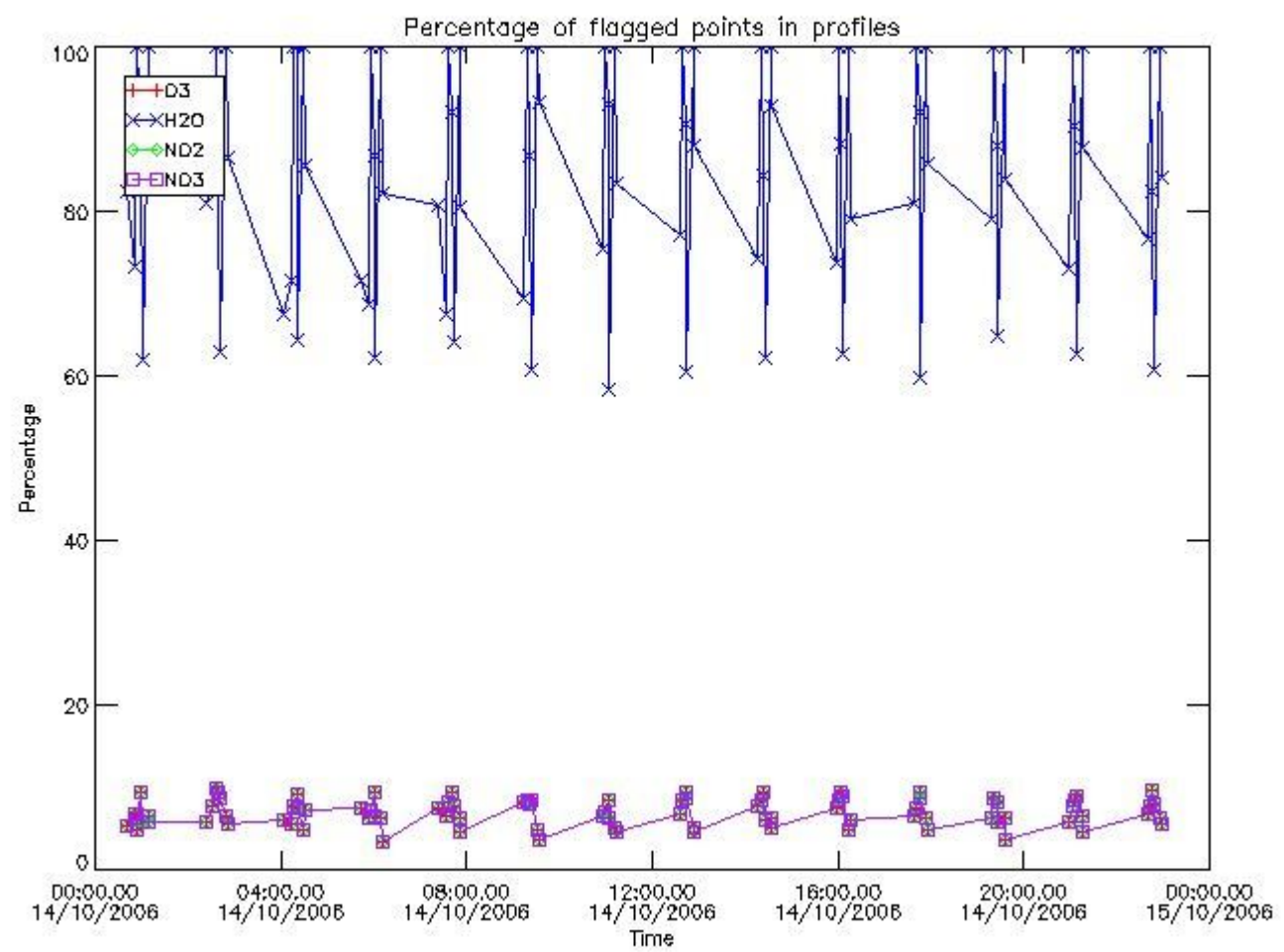
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20061014_000241_000000282052_00059_24161_2703.N1	14-OCT-2006 00:02:41	Bright	28.000	68	18Alp Cas	2.2250	4500.0	56	24161	No
2	GOM_NL__2PRFIN20061014_000404_000000292052_00059_24161_2704.N1	14-OCT-2006 00:04:04	Bright	28.500	76	27Gam Cas	2.3000	30000.	57	24161	No
3	GOM_NL__2PRFIN20061014_001136_000000292052_00059_24161_2705.N1	14-OCT-2006 00:11:36	Bright	29.000	49	1Alp UMi	1.9900	6300.0	58	24161	No
4	GOM_NL__2PRFIN20061014_001948_000000302052_00059_24161_2706.N1	14-OCT-2006 00:19:48	Bright	30.000	36	50Alp UMa	1.8000	6300.0	60	24161	No
5	GOM_NL__2PRFIN20061014_002121_000000302052_00059_24161_2707.N1	14-OCT-2006 00:21:21	Bright	30.000	82	48Bet UMa	2.3650	10600.	60	24161	No
6	GOM_NL__2PRFIN20061014_002443_000000472052_00059_24161_2708.N1	14-OCT-2006 00:24:43	Bright	47.000	174	52Psi UMa	3.0040	4400.0	94	24161	No
7	GOM_NL__2PRFIN20061014_003219_000000312052_00059_24161_2709.N1	14-OCT-2006 00:32:19	Bright	31.000	51	41Gam1Leo	2.0100	4500.0	62	24161	No
8	GOM_NL__2PRFIN20061014_003450_000000352052_00059_24161_2710.N1	14-OCT-2006 00:34:50	Bright	34.500	22	32Alp Leo	1.3600	15200.	69	24161	No
9	GOM_NL__2PRFIN20061014_004204_000000492052_00059_24161_2711.N1	14-OCT-2006 00:42:04	Dark	48.500	48	30Alp Hya	1.9770	4100.0	97	24161	No
10	GOM_NL__2PRFIN20061014_005139_000000382052_00059_24161_2712.N1	14-OCT-2006 00:51:39	Dark	38.000	65	Lam Vel	2.2040	4400.0	76	24161	No
11	GOM_NL__2PRFIN20061014_005350_000000342052_00059_24161_2713.N1	14-OCT-2006 00:53:50	Dark	33.500	91	Kap Vel	2.4900	26000.	67	24161	No
12	GOM_NL__2PRFIN20061014_005456_000000332052_00060_24162_2714.N1	14-OCT-2006 00:54:56	Dark	32.500	71	lot Car	2.2460	7700.0	65	24162	No
13	GOM_NL__2PRFIN20061014_005859_000000392052_00060_24162_3079.N1	14-OCT-2006 00:58:59	Dark	38.500	161	Tau Pup	2.9310	4500.0	77	24162	No
14	GOM_NL__2PRFIN20061014_010021_000000532052_00060_24162_3080.N1	14-OCT-2006 01:00:21	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	24162	No
15	GOM_NL__2PRFIN20061014_010820_000000322052_00060_24162_3081.N1	14-OCT-2006 01:08:20	Dark	32.000	143	Alp Hyi	2.8570	7200.0	64	24162	No
16	GOM_NL__2PRFIN20061014_010947_000000352052_00060_24162_3082.N1	14-OCT-2006 01:09:47	Dark	35.000	9	Alp Eri	0.45300	24000.	70	24162	No
17	GOM_NL__2PRFIN20061014_012128_000000412052_00060_24162_3083.N1	14-OCT-2006 01:21:28	Straylight	40.500	52	16Bet Cet	2.0370	4500.0	81	24162	No
18	GOM_NL__2PRFIN20061014_013111_000000302052_00060_24162_3084.N1	14-OCT-2006 01:31:11	Bright	30.000	140	88Gam Peg	2.8340	26000.	60	24162	No
19	GOM_NL__2PRFIN20061014_013510_000000312052_00060_24162_3085.N1	14-OCT-2006 01:35:10	Bright	31.000	58	21Alp And	2.0730	11000.	62	24162	No
20	GOM_NL__2PRFIN20061014_014317_000000332052_00060_24162_3086.N1	14-OCT-2006 01:43:17	Bright	32.500	68	18Alp Cas	2.2250	4500.0	65	24162	No
21	GOM_NL__2PRFIN20061014_014439_000000322052_00060_24162_3087.N1	14-OCT-2006 01:44:39	Bright	31.500	76	27Gam Cas	2.3000	30000.	63	24162	No
22	GOM_NL__2PRFIN20061014_015212_000000302052_00060_24162_3088.N1	14-OCT-2006 01:52:12	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	24162	No
23	GOM_NL__2PRFIN20061014_020024_000000312052_00060_24162_3089.N1	14-OCT-2006 02:00:24	Bright	31.000	36	50Alp UMa	1.8000	6300.0	62	24162	No
24	GOM_NL__2PRFIN20061014_020157_000000292052_00060_24162_3090.N1	14-OCT-2006 02:01:57	Bright	28.500	82	48Bet UMa	2.3650	10600.	57	24162	No
25	GOM_NL__2PRFIN20061014_020518_000000282052_00060_24162_3091.N1	14-OCT-2006 02:05:18	Bright	28.000	174	52Psi UMa	3.0040	4400.0	56	24162	No
26	GOM_NL__2PRFIN20061014_021255_000000312052_00060_24162_3092.N1	14-OCT-2006 02:12:55	Bright	31.000	51	41Gam1Leo	2.0100	4500.0	62	24162	No
27	GOM_NL__2PRFIN20061014_021526_000000502052_00060_24162_3093.N1	14-OCT-2006 02:15:26	Bright	50.000	22	32Alp Leo	1.3600	15200.	100	24162	No
28	GOM_NL__2PRFIN20061014_022241_000000452052_00060_24162_3094.N1	14-OCT-2006 02:22:41	Dark	45.000	48	30Alp Hya	1.9770	4100.0	90	24162	No
29	GOM_NL__2PRFIN20061014_023215_000000462052_00060_24162_3095.N1	14-OCT-2006 02:32:15	Dark	46.000	65	Lam Vel	2.2040	4400.0	92	24162	No
30	GOM_NL__2PRFIN20061014_023521_000000372052_00060_24162_3096.N1	14-OCT-2006 02:35:21	Dark	36.500	34	Gam2Vel	1.7930	23000.	73	24162	No
31	GOM_NL__2PRFIN20061014_023936_000000392052_00061_24163_2696.N1	14-OCT-2006 02:39:36	Dark	38.500	161	Tau Pup	2.9310	4500.0	77	24163	No
32	GOM_NL__2PRFIN20061014_024057_000000412052_00061_24163_2697.N1	14-OCT-2006 02:40:57	Dark	41.000	2	Alp Car	-0.73600	7000.0	82	24163	No
33	GOM_NL__2PRFIN20061014_024857_000000322052_00061_24163_2698.N1	14-OCT-2006 02:48:57	Dark	31.500	143	Alp Hyi	2.8570	7200.0	63	24163	No
34	GOM_NL__2PRFIN20061014_025023_000000372052_00061_24163_2699.N1	14-OCT-2006 02:50:23	Dark	37.000	9	Alp Eri	0.45300	24000.	74	24163	No
35	GOM_NL__2PRFIN20061014_030204_000000372052_00061_24163_2700.N1	14-OCT-2006 03:02:04	Straylight	37.000	52	16Bet Cet	2.0370	4500.0	74	24163	No
36	GOM_NL__2PRFIN20061014_031147_000000292052_00061_24163_2701.N1	14-OCT-2006 03:11:47	Bright	29.000	140	88Gam Peg	2.8340	26000.	58	24163	No
37	GOM_NL__2PRFIN20061014_031546_000000312052_00061_24163_2702.N1	14-OCT-2006 03:15:46	Bright	31.000	58	21Alp And	2.0730	11000.	62	24163	No
38	GOM_NL__2PRFIN20061014_032352_000000312052_00061_24163_2703.N1	14-OCT-2006 03:23:52	Bright	30.500	68	18Alp Cas	2.2250	4500.0	61	24163	No
39	GOM_NL__2PRFIN20061014_032515_000000322052_00061_24163_2704.N1	14-OCT-2006 03:25:15	Bright	31.500	76	27Gam Cas	2.3000	30000.	63	24163	No
40	GOM_NL__2PRFIN20061014_033247_000000302052_00061_24163_2705.N1	14-OCT-2006 03:32:47	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	24163	No
41	GOM_NL__2PRFIN20061014_034100_000000312052_00061_24163_2706.N1	14-OCT-2006 03:41:00	Bright	30.500	36	50Alp UMa	1.8000	6300.0	61	24163	No
42	GOM_NL__2PRFIN20061014_034233_000000302052_00061_24163_2707.N1	14-OCT-2006 03:42:33	Bright	29.500	82	48Bet UMa	2.3650	10600.	59	24163	No

220	GOM_NL__2PRFIN20061014_210205_000000402052_00072_24174_2733.N1	14-OCT-2006 21:02:05	Dark	39.500	34	Gam2Vel	1.7930	23000.	79	24174	No
221	GOM_NL__2PRFIN20061014_210620_000000372052_00072_24174_2717.N1	14-OCT-2006 21:06:20	Dark	36.500	161	Tau Pup	2.9310	4500.0	73	24174	No
222	GOM_NL__2PRFIN20061014_210742_000000412052_00072_24174_2718.N1	14-OCT-2006 21:07:42	Dark	40.500	2	Alp Car	-0.73600	7000.0	81	24174	No
223	GOM_NL__2PRFIN20061014_211535_000000322052_00072_24174_2719.N1	14-OCT-2006 21:15:35	Dark	31.500	143	Alp Hyi	2.8570	7200.0	63	24174	No
224	GOM_NL__2PRFIN20061014_211702_000000462052_00072_24174_2720.N1	14-OCT-2006 21:17:02	Dark	45.500	9	Alp Eri	0.45300	24000.	91	24174	No
225	GOM_NL__2PRFIN20061014_212841_000000372052_00072_24174_2721.N1	14-OCT-2006 21:28:41	Straylight	36.500	52	16Bet Cet	2.0370	4500.0	73	24174	No
226	GOM_NL__2PRFIN20061014_213823_000000312052_00072_24174_2722.N1	14-OCT-2006 21:38:23	Bright	30.500	140	88Gam Peg	2.8340	26000.	61	24174	No
227	GOM_NL__2PRFIN20061014_214220_000000312052_00072_24174_2723.N1	14-OCT-2006 21:42:20	Bright	31.000	58	21Alp And	2.0730	11000.	62	24174	No
228	GOM_NL__2PRFIN20061014_215026_000000322052_00072_24174_2724.N1	14-OCT-2006 21:50:26	Bright	32.000	68	18Alp Cas	2.2250	4500.0	64	24174	No
229	GOM_NL__2PRFIN20061014_215148_000000322052_00072_24174_2725.N1	14-OCT-2006 21:51:48	Bright	32.000	76	27Gam Cas	2.3000	30000.	64	24174	No
230	GOM_NL__2PRFIN20061014_215923_000000302052_00072_24174_2726.N1	14-OCT-2006 21:59:23	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	24174	No
231	GOM_NL__2PRFIN20061014_220735_000000322052_00072_24174_2727.N1	14-OCT-2006 22:07:35	Bright	31.500	36	50Alp UMa	1.8000	6300.0	63	24174	No
232	GOM_NL__2PRFIN20061014_220909_000000312052_00072_24174_2728.N1	14-OCT-2006 22:09:09	Bright	30.500	82	48Bet UMa	2.3650	10600.	61	24174	No
233	GOM_NL__2PRFIN20061014_221231_000000312052_00072_24174_2729.N1	14-OCT-2006 22:12:31	Bright	30.500	174	52Psi UMa	3.0040	4400.0	61	24174	No
234	GOM_NL__2PRFIN20061014_222009_000000312052_00072_24174_2730.N1	14-OCT-2006 22:20:09	Bright	31.000	51	41Gam1Leo	2.0100	4500.0	62	24174	No
235	GOM_NL__2PRFIN20061014_222241_000000512052_00072_24174_2731.N1	14-OCT-2006 22:22:41	Bright	51.000	22	32Alp Leo	1.3600	15200.	102	24174	No
236	GOM_NL__2PRFIN20061014_223933_000000462052_00072_24174_2732.N1	14-OCT-2006 22:39:33	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	24174	No
237	GOM_NL__2PRFIN20061014_224242_000000402052_00073_24175_2733.N1	14-OCT-2006 22:42:42	Dark	39.500	34	Gam2Vel	1.7930	23000.	79	24175	No
238	GOM_NL__2PRFIN20061014_224657_000000382052_00073_24175_2737.N1	14-OCT-2006 22:46:57	Dark	37.500	161	Tau Pup	2.9310	4500.0	75	24175	No
239	GOM_NL__2PRFIN20061014_224818_000000452052_00073_24175_2738.N1	14-OCT-2006 22:48:18	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	24175	No
240	GOM_NL__2PRFIN20061014_225611_000000332052_00073_24175_2739.N1	14-OCT-2006 22:56:11	Dark	32.500	143	Alp Hyi	2.8570	7200.0	65	24175	No
241	GOM_NL__2PRFIN20061014_225738_000000382052_00073_24175_2740.N1	14-OCT-2006 22:57:38	Dark	37.500	9	Alp Eri	0.45300	24000.	75	24175	No
242	GOM_NL__2PRFIN20061014_230917_000000382052_00073_24175_2741.N1	14-OCT-2006 23:09:17	Straylight	38.000	52	16Bet Cet	2.0370	4500.0	76	24175	No
243	GOM_NL__2PRFIN20061014_231858_000000312052_00073_24175_2742.N1	14-OCT-2006 23:18:58	Bright	31.000	140	88Gam Peg	2.8340	26000.	62	24175	No
244	GOM_NL__2PRFIN20061014_232256_000000322052_00073_24175_2743.N1	14-OCT-2006 23:22:56	Bright	31.500	58	21Alp And	2.0730	11000.	63	24175	No
245	GOM_NL__2PRFIN20061014_233101_000000322052_00073_24175_2744.N1	14-OCT-2006 23:31:01	Bright	32.000	68	18Alp Cas	2.2250	4500.0	64	24175	No
246	GOM_NL__2PRFIN20061014_233223_000000322052_00073_24175_2745.N1	14-OCT-2006 23:32:23	Bright	31.500	76	27Gam Cas	2.3000	30000.	63	24175	No
247	GOM_NL__2PRFIN20061014_233958_000000282052_00073_24175_2746.N1	14-OCT-2006 23:39:58	Bright	28.000	49	1Alp UMi	1.9900	6300.0	56	24175	No
248	GOM_NL__2PRFIN20061014_234812_000000312052_00073_24175_2747.N1	14-OCT-2006 23:48:12	Bright	31.000	36	50Alp UMa	1.8000	6300.0	62	24175	No
249	GOM_NL__2PRFIN20061014_234944_000000302052_00073_24175_2748.N1	14-OCT-2006 23:49:44	Bright	29.500	82	48Bet UMa	2.3650	10600.	59	24175	No
250	GOM_NL__2PRFIN20061014_235307_000000352052_00073_24175_2749.N1	14-OCT-2006 23:53:07	Bright	34.500	174	52Psi UMa	3.0040	4400.0	69	24175	No

3. Quality information per product

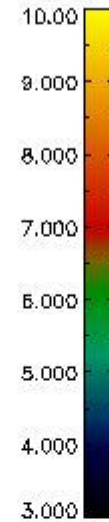
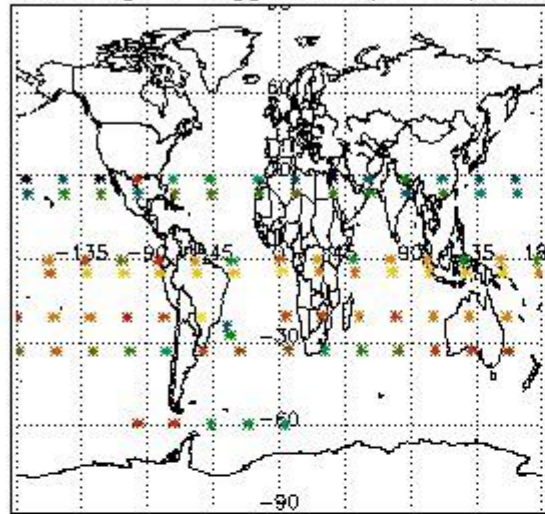
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

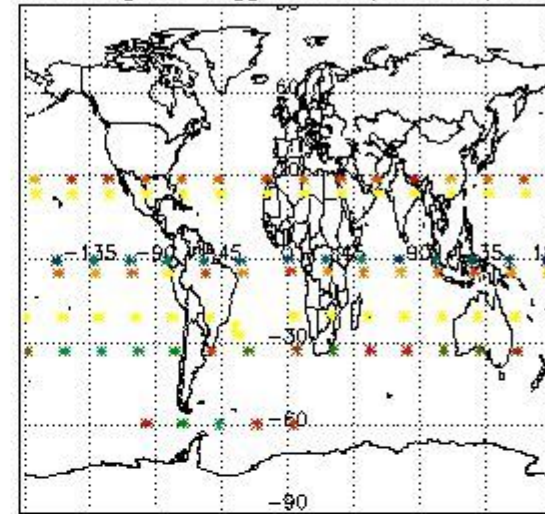


3.2 Plot quality information per product (world map)

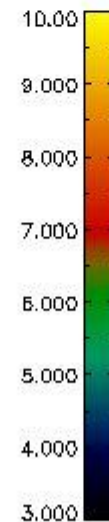
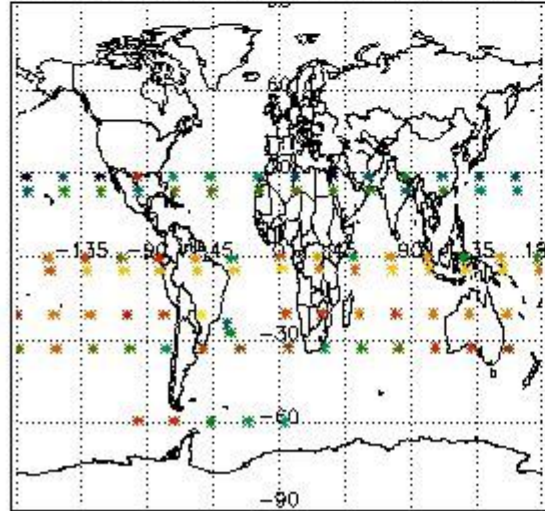
Percentage of flagged data per O3 profile



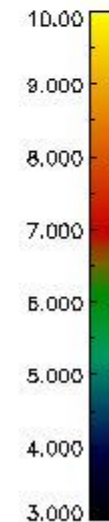
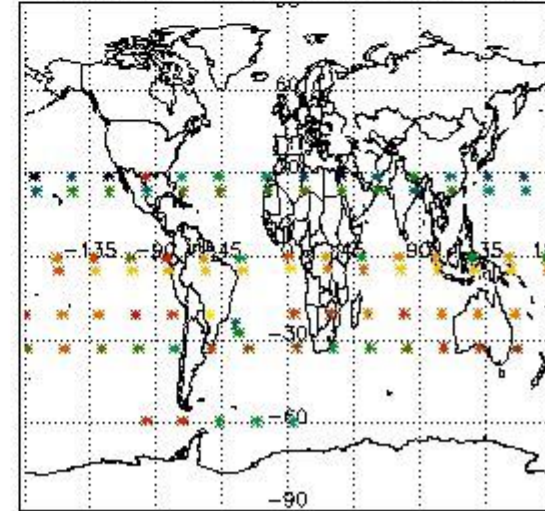
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

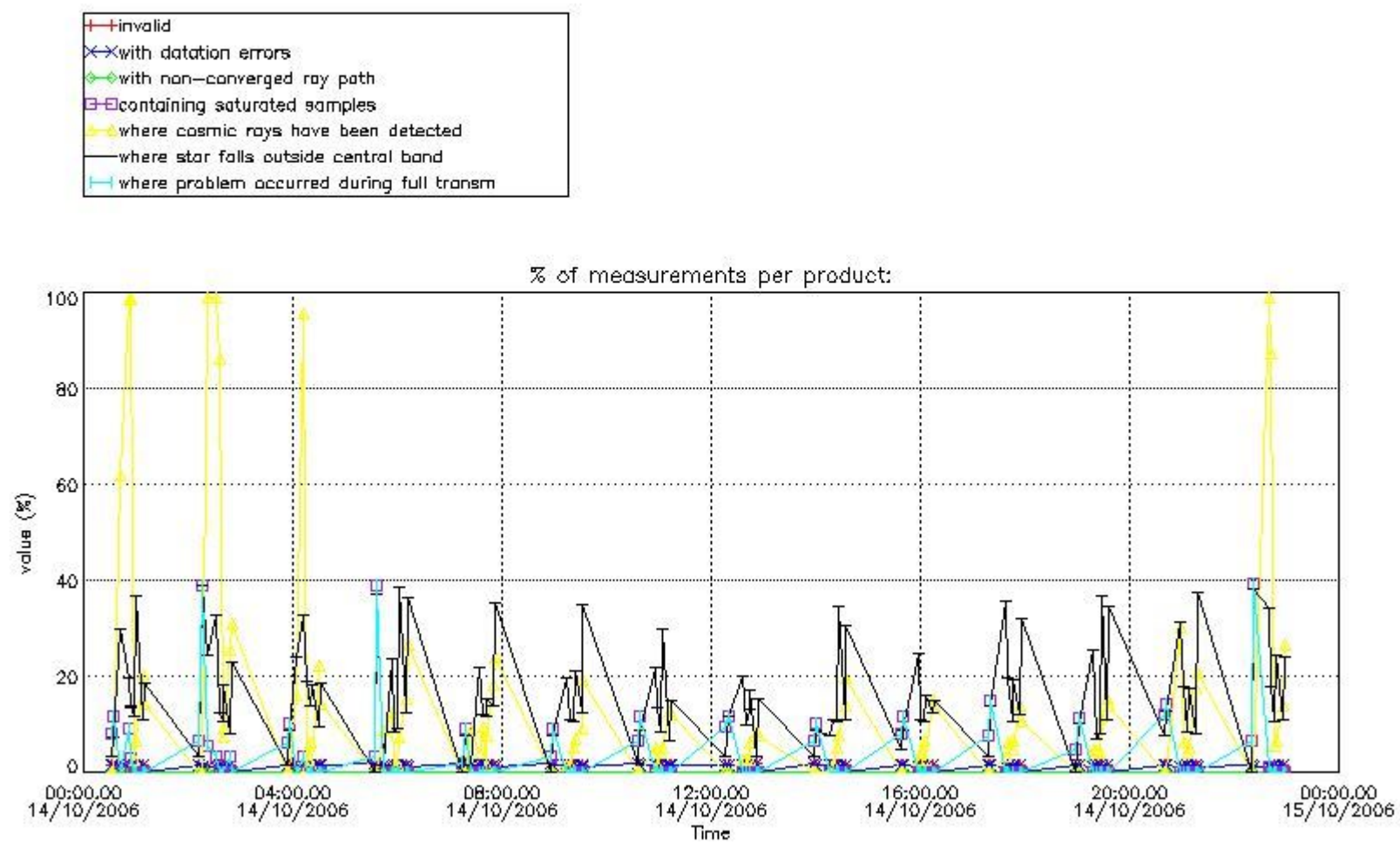


4. Level 1 quality information per product

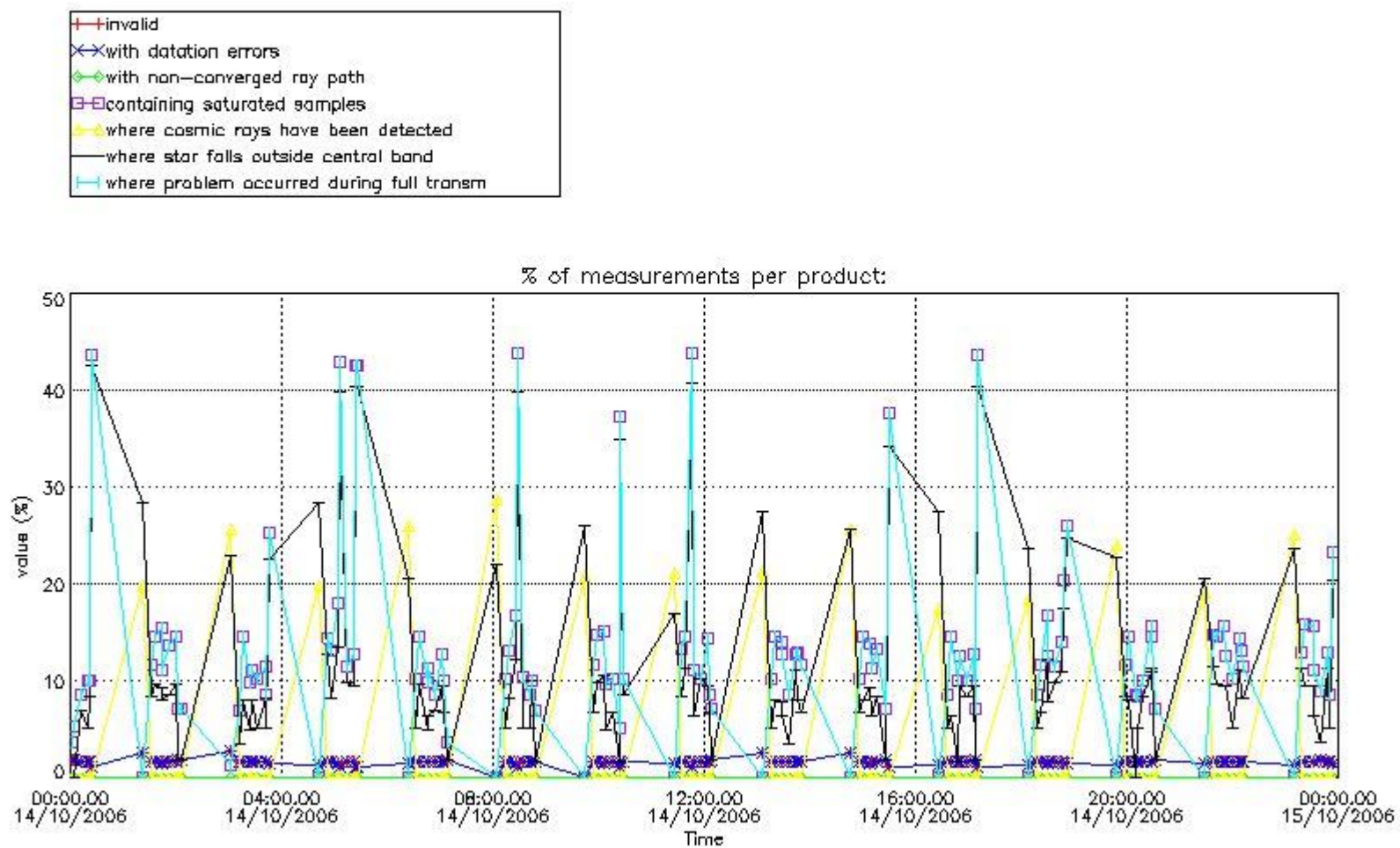
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



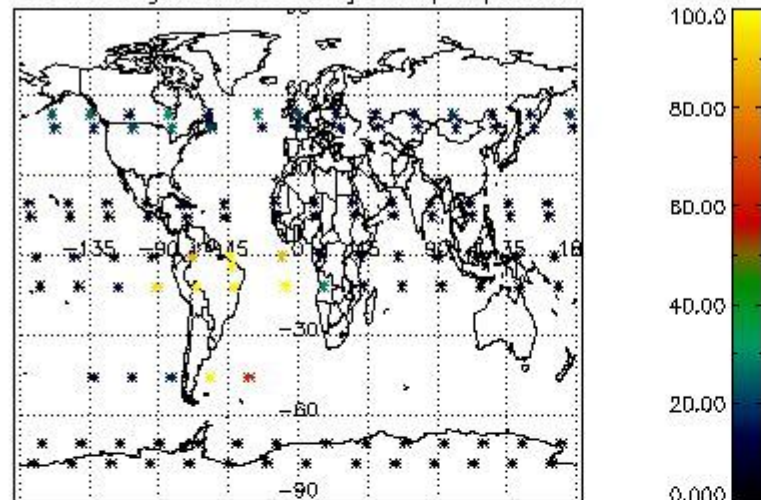
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



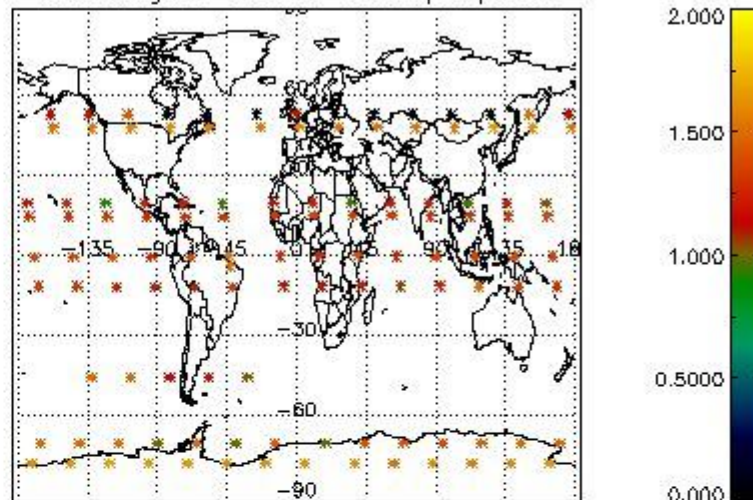
4.2 Plot quality information per product coming from level 1b processing (world map)

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

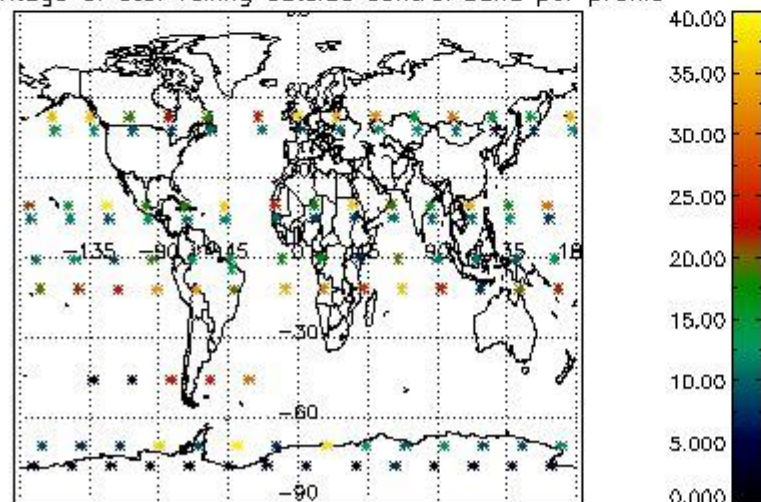
Percentage of cosmic ray hits per profile



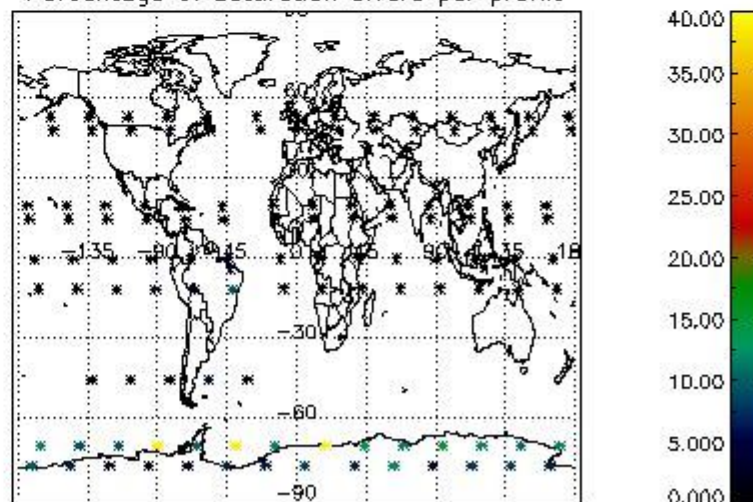
Percentage of datation errors per profile



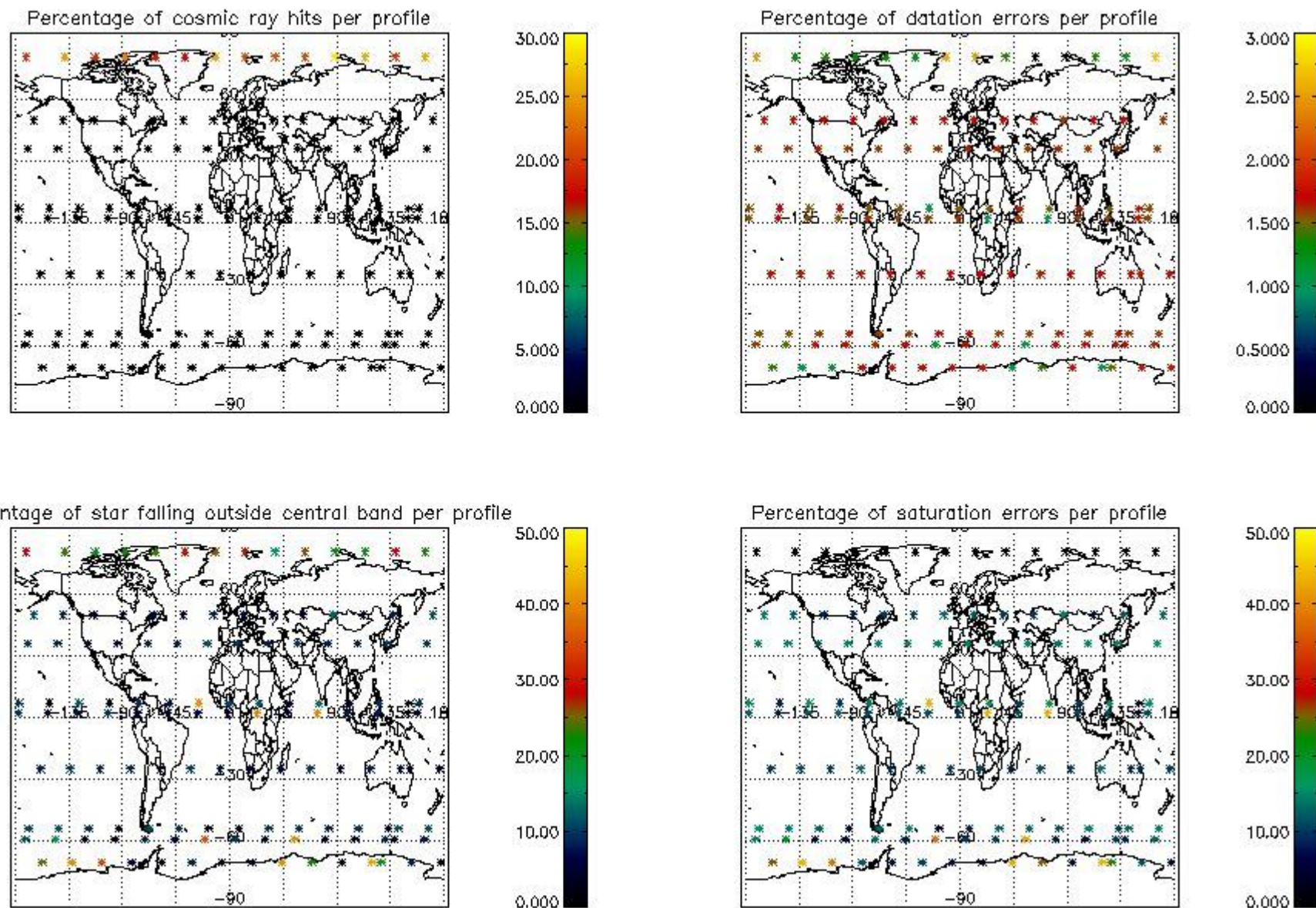
Percentage of star falling outside central band per profile



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

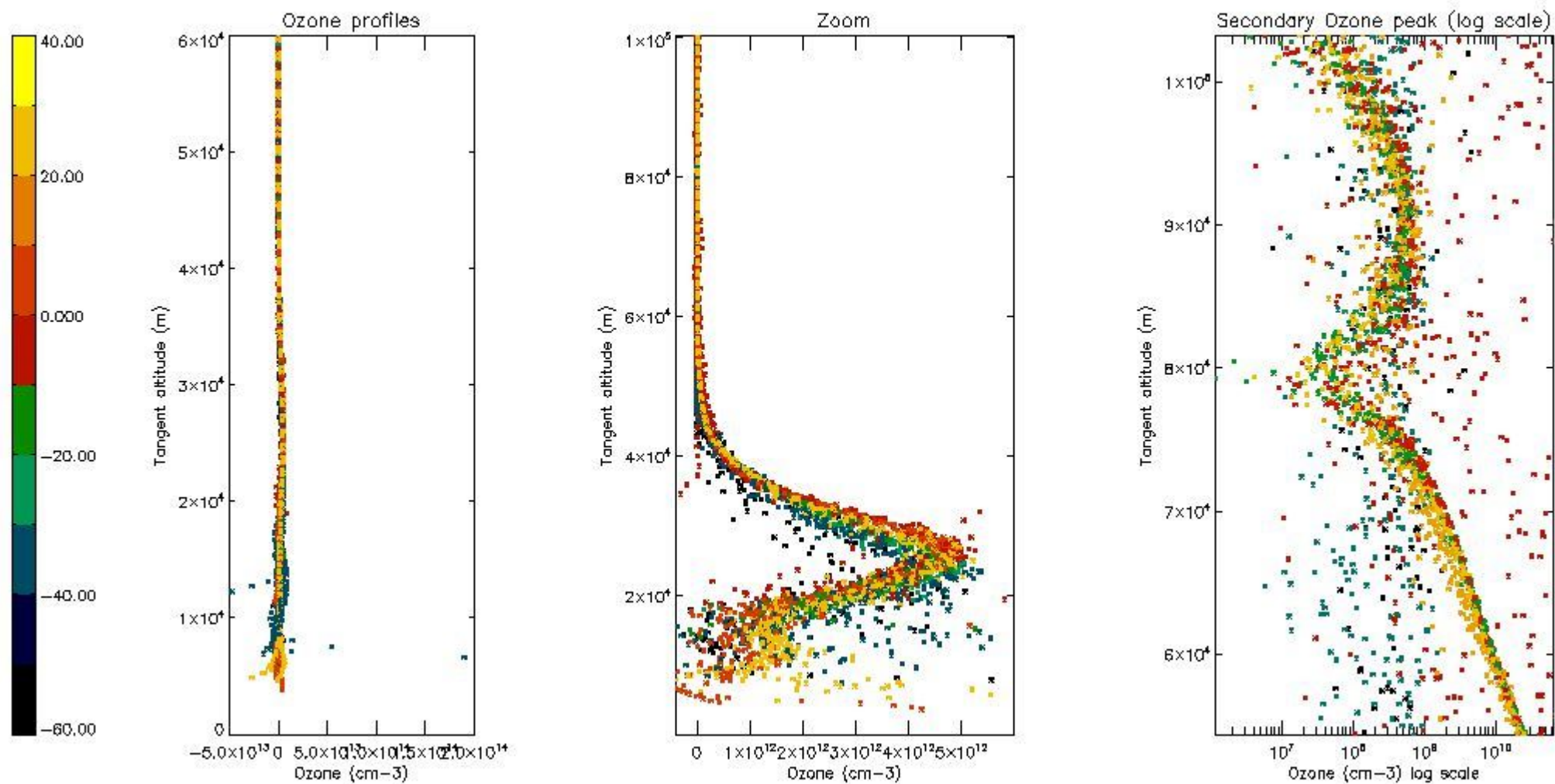
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	41
STD < 20	22

STD < 10	17
STD < 5	12

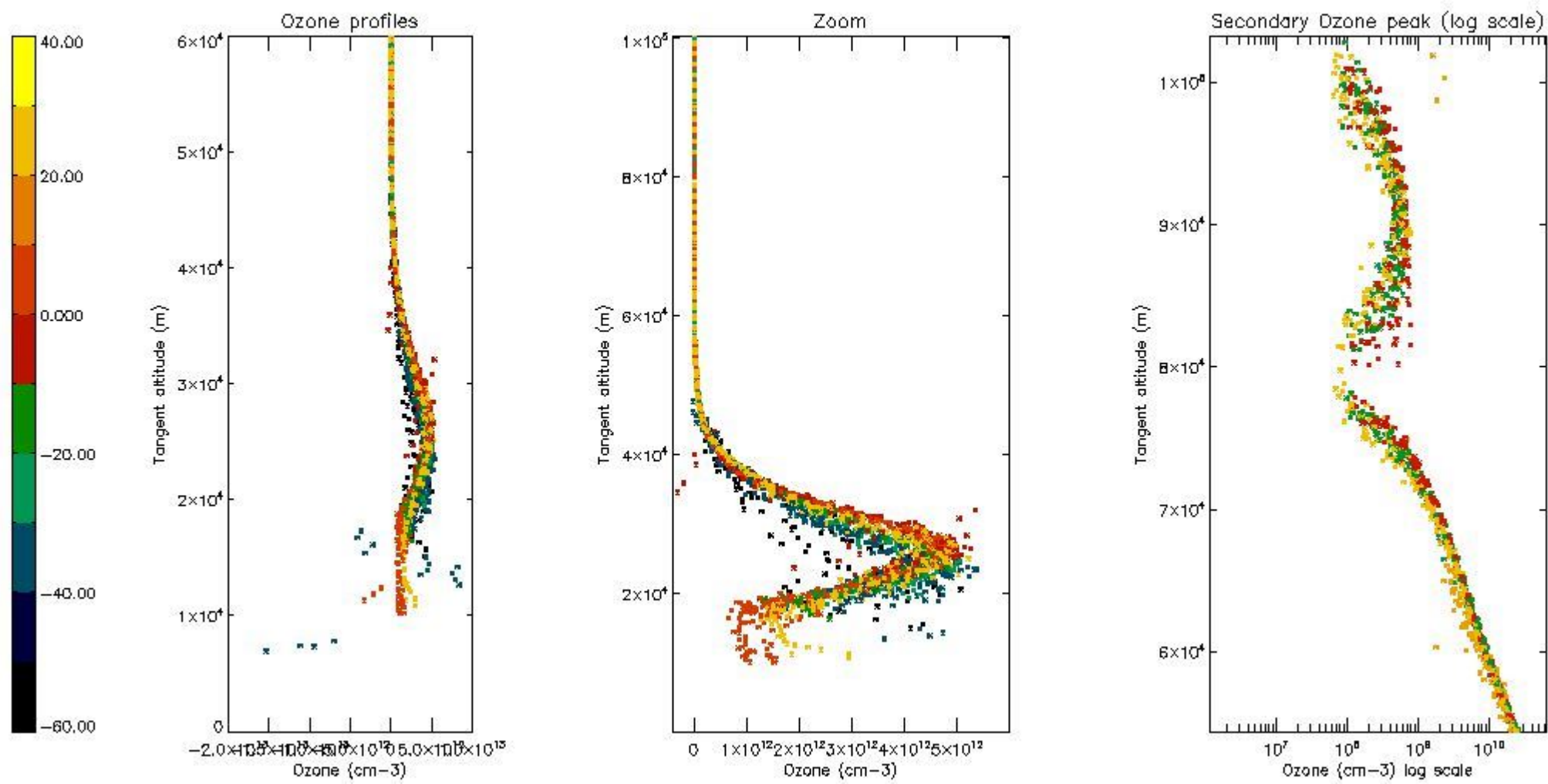
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



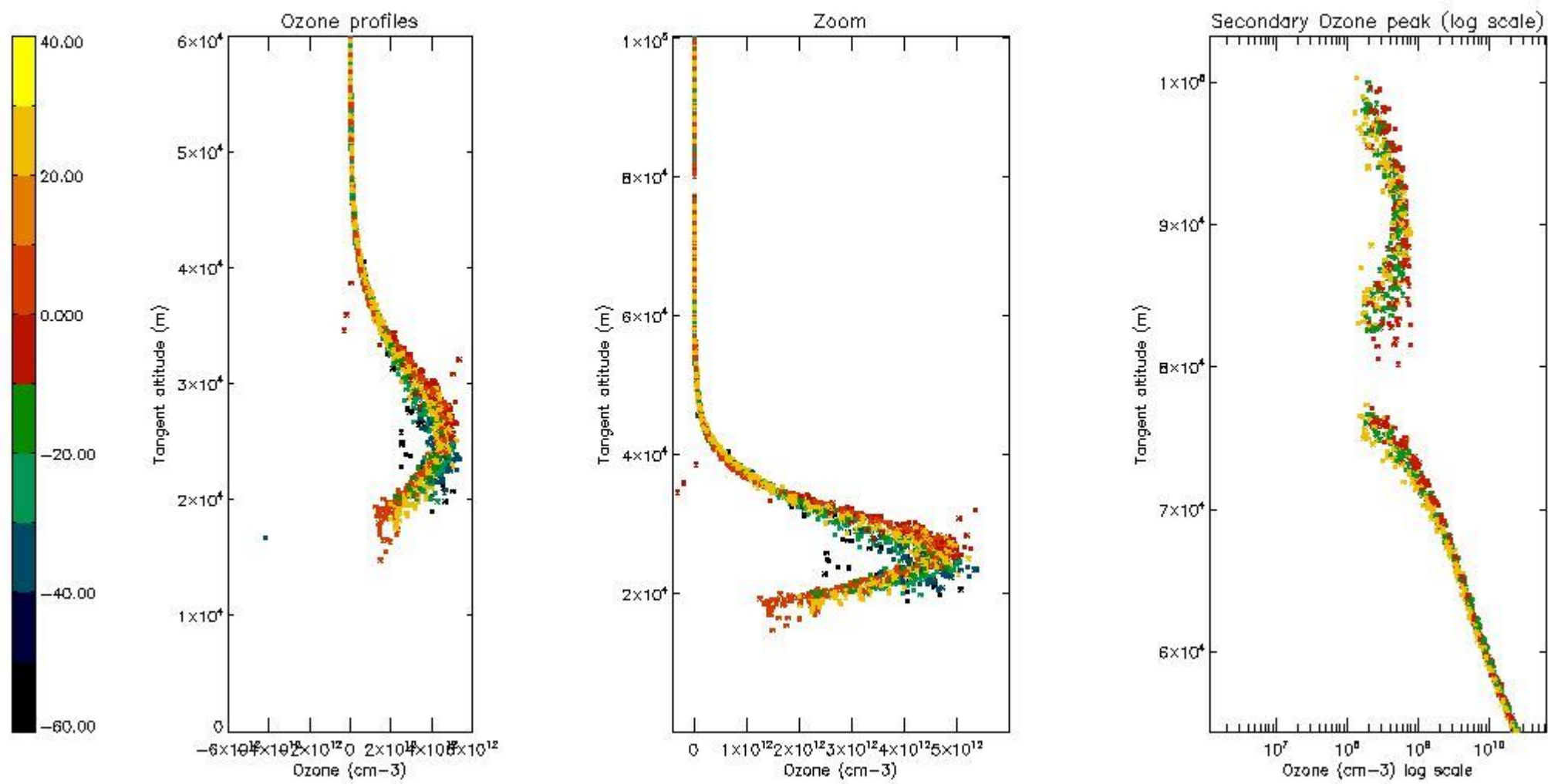
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



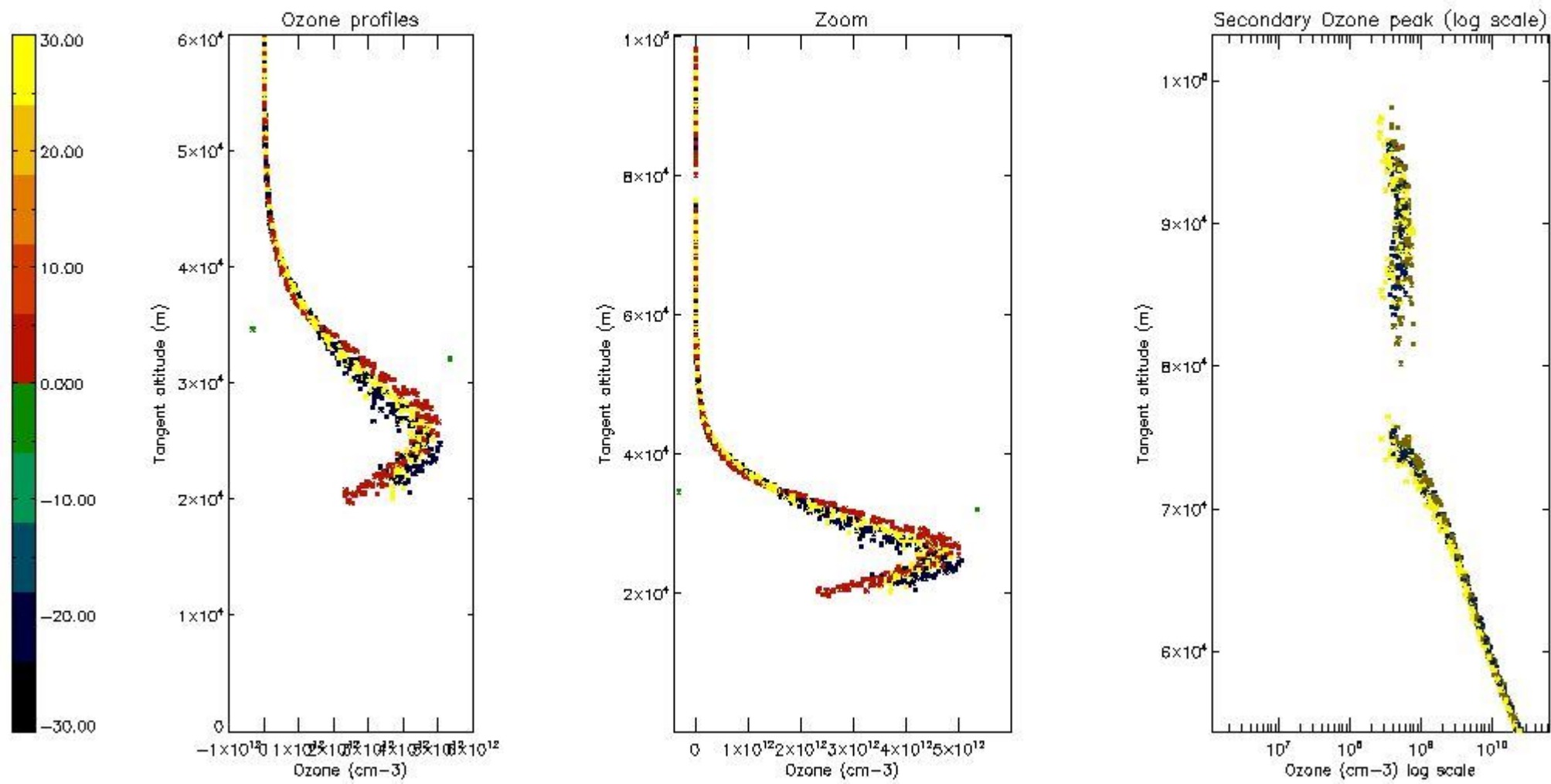
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



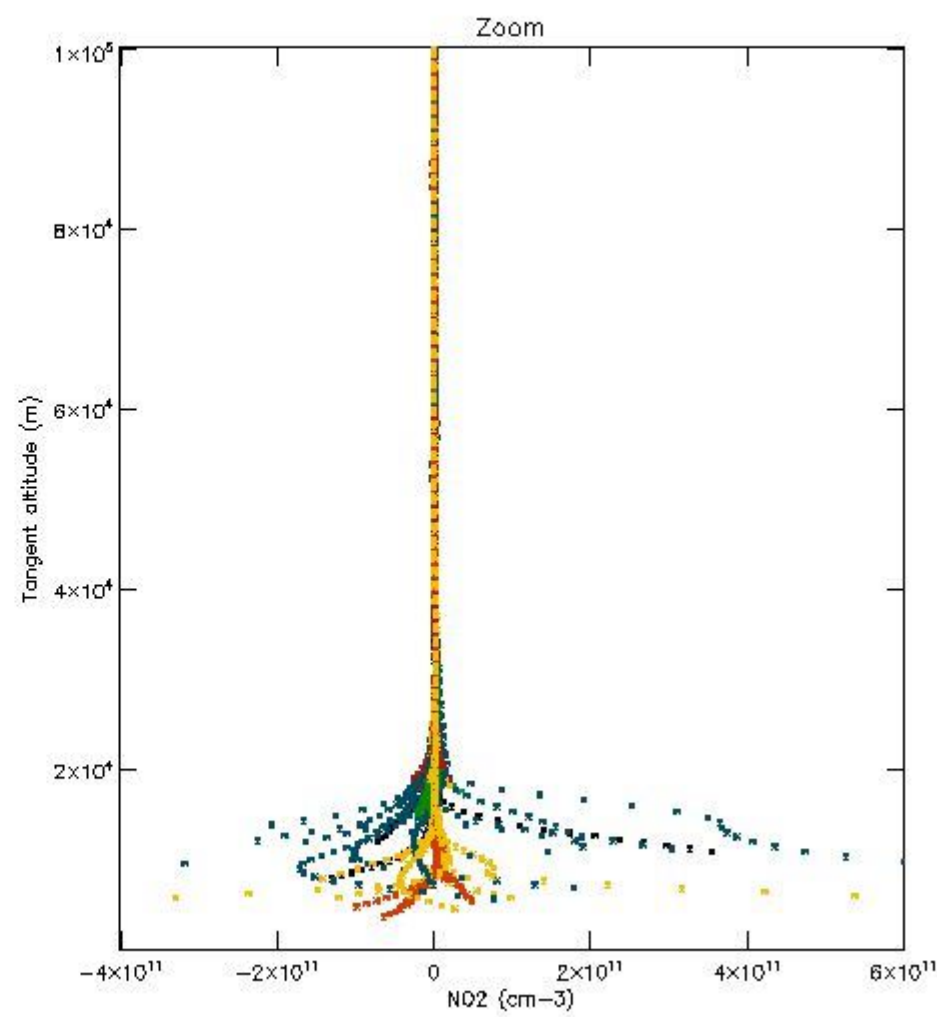
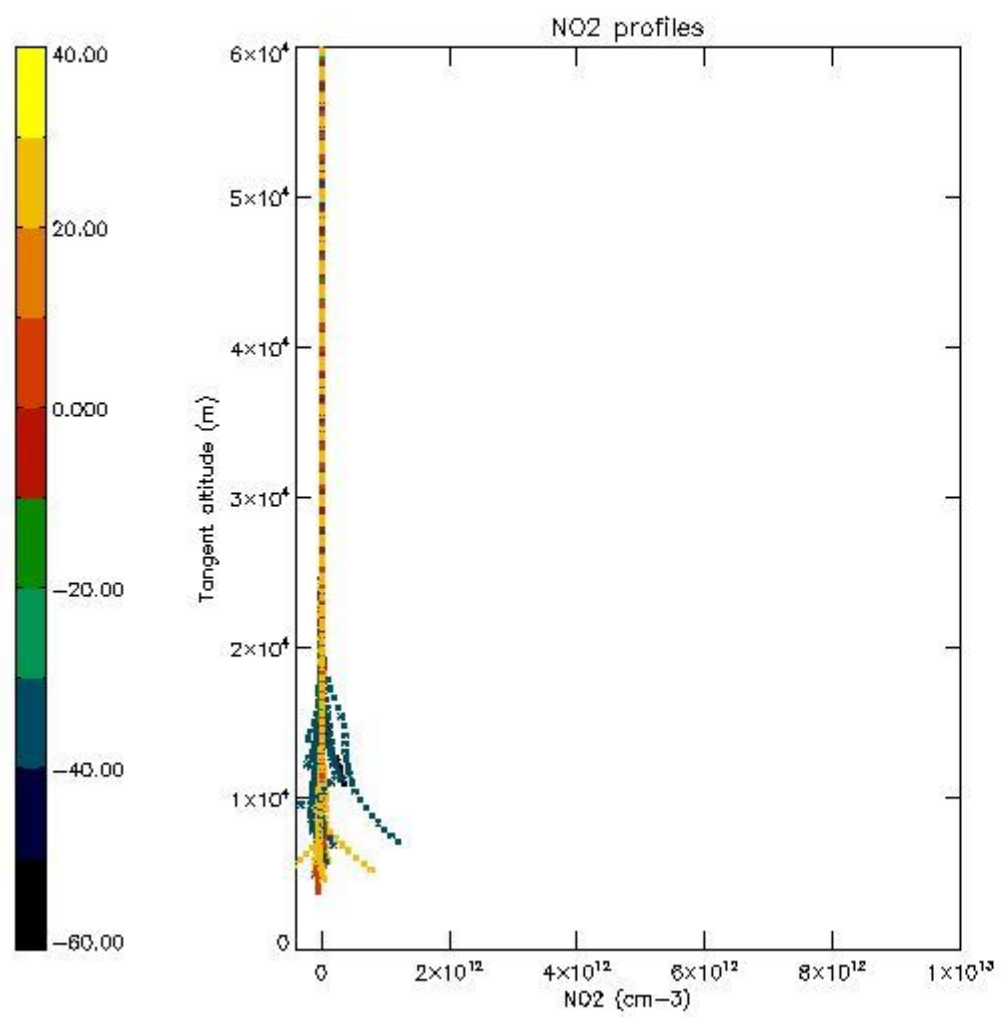
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



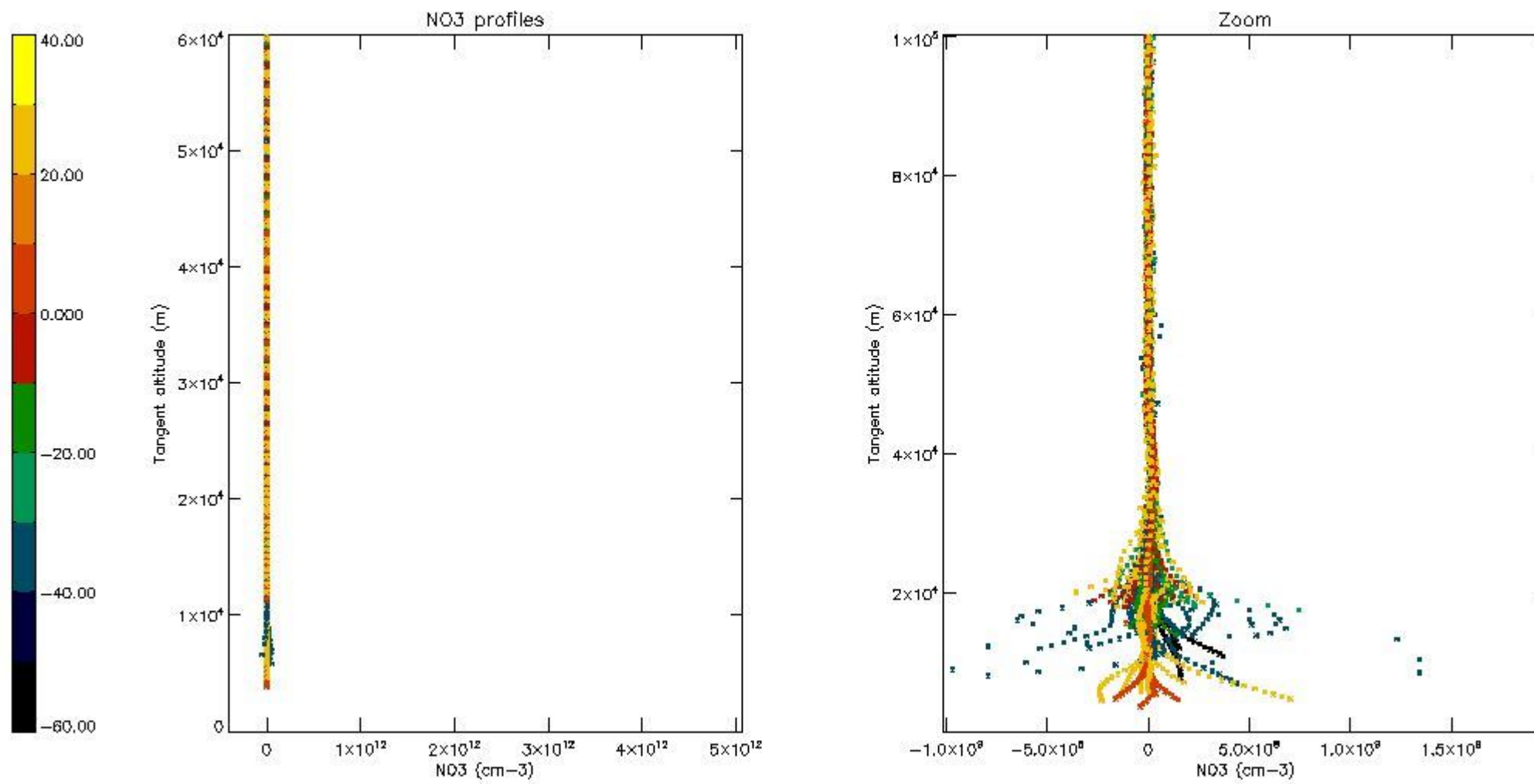
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	14-OCT-2006 00:02:41
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	14-OCT-2006 00:02:41
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	14-OCT-2006 00:02:41

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Item	Value
Time of report generation	24APR2013 04:58:06
Data source version	GOMOS/6.01
Start time of products	14-10-2006 (14OCT2006 00:00:00)
Stop time of products	15-10-2006 (15OCT2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	250
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

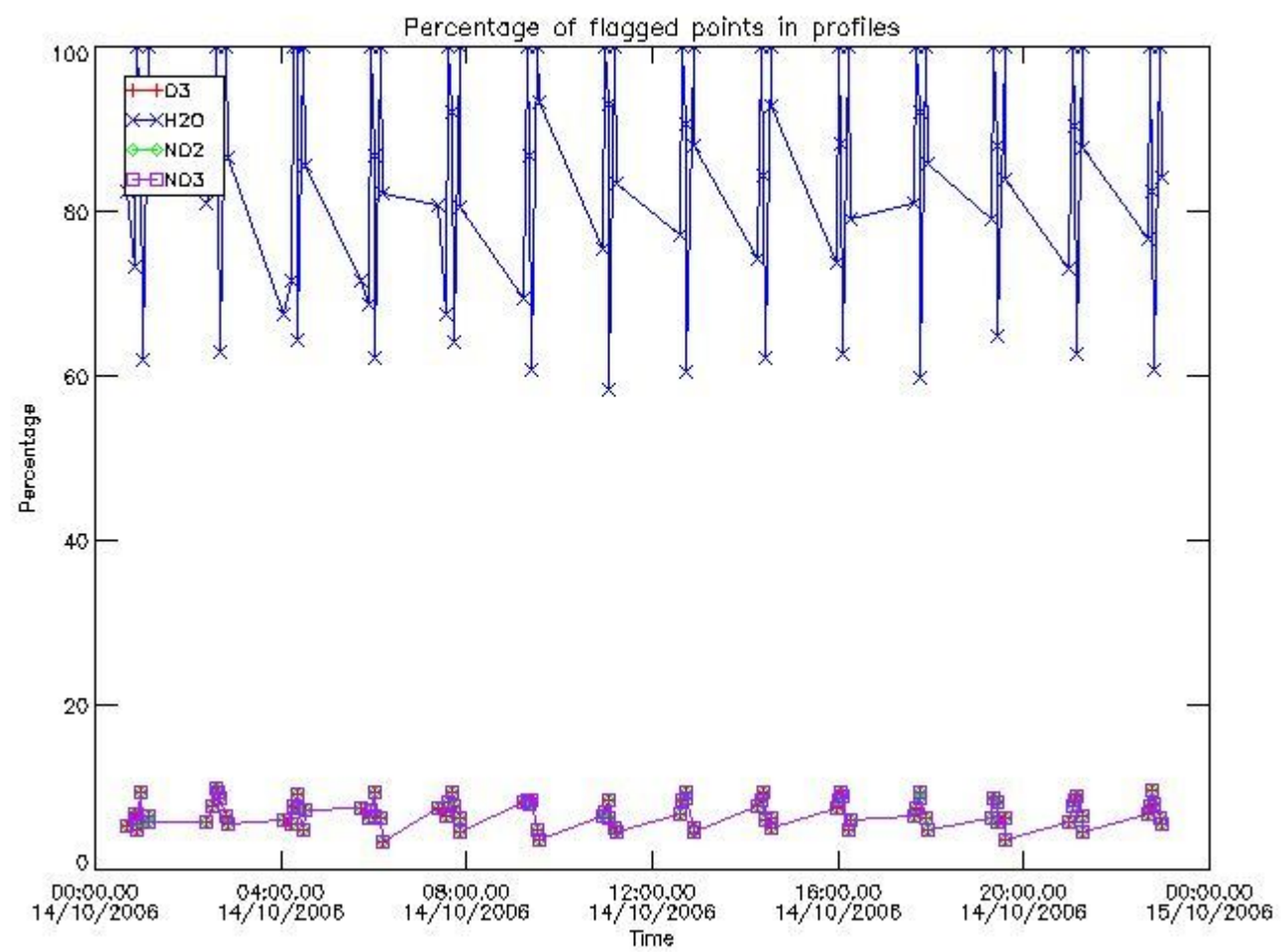
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20061014_000241_000000282052_00059_24161_2703.N1	14-OCT-2006 00:02:41	Bright	28.000	68	18Alp Cas	2.2250	4500.0	56	24161	No
2	GOM_NL__2PRFIN20061014_000404_000000292052_00059_24161_2704.N1	14-OCT-2006 00:04:04	Bright	28.500	76	27Gam Cas	2.3000	30000.	57	24161	No
3	GOM_NL__2PRFIN20061014_001136_000000292052_00059_24161_2705.N1	14-OCT-2006 00:11:36	Bright	29.000	49	1Alp UMi	1.9900	6300.0	58	24161	No
4	GOM_NL__2PRFIN20061014_001948_000000302052_00059_24161_2706.N1	14-OCT-2006 00:19:48	Bright	30.000	36	50Alp UMa	1.8000	6300.0	60	24161	No
5	GOM_NL__2PRFIN20061014_002121_000000302052_00059_24161_2707.N1	14-OCT-2006 00:21:21	Bright	30.000	82	48Bet UMa	2.3650	10600.	60	24161	No
6	GOM_NL__2PRFIN20061014_002443_000000472052_00059_24161_2708.N1	14-OCT-2006 00:24:43	Bright	47.000	174	52Psi UMa	3.0040	4400.0	94	24161	No
7	GOM_NL__2PRFIN20061014_003219_000000312052_00059_24161_2709.N1	14-OCT-2006 00:32:19	Bright	31.000	51	41Gam1Leo	2.0100	4500.0	62	24161	No
8	GOM_NL__2PRFIN20061014_003450_000000352052_00059_24161_2710.N1	14-OCT-2006 00:34:50	Bright	34.500	22	32Alp Leo	1.3600	15200.	69	24161	No
9	GOM_NL__2PRFIN20061014_004204_000000492052_00059_24161_2711.N1	14-OCT-2006 00:42:04	Dark	48.500	48	30Alp Hya	1.9770	4100.0	97	24161	No
10	GOM_NL__2PRFIN20061014_005139_000000382052_00059_24161_2712.N1	14-OCT-2006 00:51:39	Dark	38.000	65	Lam Vel	2.2040	4400.0	76	24161	No
11	GOM_NL__2PRFIN20061014_005350_000000342052_00059_24161_2713.N1	14-OCT-2006 00:53:50	Dark	33.500	91	Kap Vel	2.4900	26000.	67	24161	No
12	GOM_NL__2PRFIN20061014_005456_000000332052_00060_24162_2714.N1	14-OCT-2006 00:54:56	Dark	32.500	71	lot Car	2.2460	7700.0	65	24162	No
13	GOM_NL__2PRFIN20061014_005859_000000392052_00060_24162_3079.N1	14-OCT-2006 00:58:59	Dark	38.500	161	Tau Pup	2.9310	4500.0	77	24162	No
14	GOM_NL__2PRFIN20061014_010021_000000532052_00060_24162_3080.N1	14-OCT-2006 01:00:21	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	24162	No
15	GOM_NL__2PRFIN20061014_010820_000000322052_00060_24162_3081.N1	14-OCT-2006 01:08:20	Dark	32.000	143	Alp Hyi	2.8570	7200.0	64	24162	No
16	GOM_NL__2PRFIN20061014_010947_000000352052_00060_24162_3082.N1	14-OCT-2006 01:09:47	Dark	35.000	9	Alp Eri	0.45300	24000.	70	24162	No
17	GOM_NL__2PRFIN20061014_012128_000000412052_00060_24162_3083.N1	14-OCT-2006 01:21:28	Straylight	40.500	52	16Bet Cet	2.0370	4500.0	81	24162	No
18	GOM_NL__2PRFIN20061014_013111_000000302052_00060_24162_3084.N1	14-OCT-2006 01:31:11	Bright	30.000	140	88Gam Peg	2.8340	26000.	60	24162	No
19	GOM_NL__2PRFIN20061014_013510_000000312052_00060_24162_3085.N1	14-OCT-2006 01:35:10	Bright	31.000	58	21Alp And	2.0730	11000.	62	24162	No
20	GOM_NL__2PRFIN20061014_014317_000000332052_00060_24162_3086.N1	14-OCT-2006 01:43:17	Bright	32.500	68	18Alp Cas	2.2250	4500.0	65	24162	No
21	GOM_NL__2PRFIN20061014_014439_000000322052_00060_24162_3087.N1	14-OCT-2006 01:44:39	Bright	31.500	76	27Gam Cas	2.3000	30000.	63	24162	No
22	GOM_NL__2PRFIN20061014_015212_000000302052_00060_24162_3088.N1	14-OCT-2006 01:52:12	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	24162	No
23	GOM_NL__2PRFIN20061014_020024_000000312052_00060_24162_3089.N1	14-OCT-2006 02:00:24	Bright	31.000	36	50Alp UMa	1.8000	6300.0	62	24162	No
24	GOM_NL__2PRFIN20061014_020157_000000292052_00060_24162_3090.N1	14-OCT-2006 02:01:57	Bright	28.500	82	48Bet UMa	2.3650	10600.	57	24162	No
25	GOM_NL__2PRFIN20061014_020518_000000282052_00060_24162_3091.N1	14-OCT-2006 02:05:18	Bright	28.000	174	52Psi UMa	3.0040	4400.0	56	24162	No
26	GOM_NL__2PRFIN20061014_021255_000000312052_00060_24162_3092.N1	14-OCT-2006 02:12:55	Bright	31.000	51	41Gam1Leo	2.0100	4500.0	62	24162	No
27	GOM_NL__2PRFIN20061014_021526_000000502052_00060_24162_3093.N1	14-OCT-2006 02:15:26	Bright	50.000	22	32Alp Leo	1.3600	15200.	100	24162	No
28	GOM_NL__2PRFIN20061014_022241_000000452052_00060_24162_3094.N1	14-OCT-2006 02:22:41	Dark	45.000	48	30Alp Hya	1.9770	4100.0	90	24162	No
29	GOM_NL__2PRFIN20061014_023215_000000462052_00060_24162_3095.N1	14-OCT-2006 02:32:15	Dark	46.000	65	Lam Vel	2.2040	4400.0	92	24162	No
30	GOM_NL__2PRFIN20061014_023521_000000372052_00060_24162_3096.N1	14-OCT-2006 02:35:21	Dark	36.500	34	Gam2Vel	1.7930	23000.	73	24162	No
31	GOM_NL__2PRFIN20061014_023936_000000392052_00061_24163_2696.N1	14-OCT-2006 02:39:36	Dark	38.500	161	Tau Pup	2.9310	4500.0	77	24163	No
32	GOM_NL__2PRFIN20061014_024057_000000412052_00061_24163_2697.N1	14-OCT-2006 02:40:57	Dark	41.000	2	Alp Car	-0.73600	7000.0	82	24163	No
33	GOM_NL__2PRFIN20061014_024857_000000322052_00061_24163_2698.N1	14-OCT-2006 02:48:57	Dark	31.500	143	Alp Hyi	2.8570	7200.0	63	24163	No
34	GOM_NL__2PRFIN20061014_025023_000000372052_00061_24163_2699.N1	14-OCT-2006 02:50:23	Dark	37.000	9	Alp Eri	0.45300	24000.	74	24163	No
35	GOM_NL__2PRFIN20061014_030204_000000372052_00061_24163_2700.N1	14-OCT-2006 03:02:04	Straylight	37.000	52	16Bet Cet	2.0370	4500.0	74	24163	No
36	GOM_NL__2PRFIN20061014_031147_000000292052_00061_24163_2701.N1	14-OCT-2006 03:11:47	Bright	29.000	140	88Gam Peg	2.8340	26000.	58	24163	No
37	GOM_NL__2PRFIN20061014_031546_000000312052_00061_24163_2702.N1	14-OCT-2006 03:15:46	Bright	31.000	58	21Alp And	2.0730	11000.	62	24163	No
38	GOM_NL__2PRFIN20061014_032352_000000312052_00061_24163_2703.N1	14-OCT-2006 03:23:52	Bright	30.500	68	18Alp Cas	2.2250	4500.0	61	24163	No
39	GOM_NL__2PRFIN20061014_032515_000000322052_00061_24163_2704.N1	14-OCT-2006 03:25:15	Bright	31.500	76	27Gam Cas	2.3000	30000.	63	24163	No
40	GOM_NL__2PRFIN20061014_033247_000000302052_00061_24163_2705.N1	14-OCT-2006 03:32:47	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	24163	No
41	GOM_NL__2PRFIN20061014_034100_000000312052_00061_24163_2706.N1	14-OCT-2006 03:41:00	Bright	30.500	36	50Alp UMa	1.8000	6300.0	61	24163	No
42	GOM_NL__2PRFIN20061014_034233_000000302052_00061_24163_2707.N1	14-OCT-2006 03:42:33	Bright	29.500	82	48Bet UMa	2.3650	10600.	59	24163	No

220	GOM_NL__2PRFIN20061014_210205_000000402052_00072_24174_2733.N1	14-OCT-2006 21:02:05	Dark	39.500	34	Gam2Vel	1.7930	23000.	79	24174	No
221	GOM_NL__2PRFIN20061014_210620_000000372052_00072_24174_2717.N1	14-OCT-2006 21:06:20	Dark	36.500	161	Tau Pup	2.9310	4500.0	73	24174	No
222	GOM_NL__2PRFIN20061014_210742_000000412052_00072_24174_2718.N1	14-OCT-2006 21:07:42	Dark	40.500	2	Alp Car	-0.73600	7000.0	81	24174	No
223	GOM_NL__2PRFIN20061014_211535_000000322052_00072_24174_2719.N1	14-OCT-2006 21:15:35	Dark	31.500	143	Alp Hyi	2.8570	7200.0	63	24174	No
224	GOM_NL__2PRFIN20061014_211702_000000462052_00072_24174_2720.N1	14-OCT-2006 21:17:02	Dark	45.500	9	Alp Eri	0.45300	24000.	91	24174	No
225	GOM_NL__2PRFIN20061014_212841_000000372052_00072_24174_2721.N1	14-OCT-2006 21:28:41	Straylight	36.500	52	16Bet Cet	2.0370	4500.0	73	24174	No
226	GOM_NL__2PRFIN20061014_213823_000000312052_00072_24174_2722.N1	14-OCT-2006 21:38:23	Bright	30.500	140	88Gam Peg	2.8340	26000.	61	24174	No
227	GOM_NL__2PRFIN20061014_214220_000000312052_00072_24174_2723.N1	14-OCT-2006 21:42:20	Bright	31.000	58	21Alp And	2.0730	11000.	62	24174	No
228	GOM_NL__2PRFIN20061014_215026_000000322052_00072_24174_2724.N1	14-OCT-2006 21:50:26	Bright	32.000	68	18Alp Cas	2.2250	4500.0	64	24174	No
229	GOM_NL__2PRFIN20061014_215148_000000322052_00072_24174_2725.N1	14-OCT-2006 21:51:48	Bright	32.000	76	27Gam Cas	2.3000	30000.	64	24174	No
230	GOM_NL__2PRFIN20061014_215923_000000302052_00072_24174_2726.N1	14-OCT-2006 21:59:23	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	24174	No
231	GOM_NL__2PRFIN20061014_220735_000000322052_00072_24174_2727.N1	14-OCT-2006 22:07:35	Bright	31.500	36	50Alp UMa	1.8000	6300.0	63	24174	No
232	GOM_NL__2PRFIN20061014_220909_000000312052_00072_24174_2728.N1	14-OCT-2006 22:09:09	Bright	30.500	82	48Bet UMa	2.3650	10600.	61	24174	No
233	GOM_NL__2PRFIN20061014_221231_000000312052_00072_24174_2729.N1	14-OCT-2006 22:12:31	Bright	30.500	174	52Psi UMa	3.0040	4400.0	61	24174	No
234	GOM_NL__2PRFIN20061014_222009_000000312052_00072_24174_2730.N1	14-OCT-2006 22:20:09	Bright	31.000	51	41Gam1Leo	2.0100	4500.0	62	24174	No
235	GOM_NL__2PRFIN20061014_222241_000000512052_00072_24174_2731.N1	14-OCT-2006 22:22:41	Bright	51.000	22	32Alp Leo	1.3600	15200.	102	24174	No
236	GOM_NL__2PRFIN20061014_223933_000000462052_00072_24174_2732.N1	14-OCT-2006 22:39:33	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	24174	No
237	GOM_NL__2PRFIN20061014_224242_000000402052_00073_24175_2733.N1	14-OCT-2006 22:42:42	Dark	39.500	34	Gam2Vel	1.7930	23000.	79	24175	No
238	GOM_NL__2PRFIN20061014_224657_000000382052_00073_24175_2737.N1	14-OCT-2006 22:46:57	Dark	37.500	161	Tau Pup	2.9310	4500.0	75	24175	No
239	GOM_NL__2PRFIN20061014_224818_000000452052_00073_24175_2738.N1	14-OCT-2006 22:48:18	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	24175	No
240	GOM_NL__2PRFIN20061014_225611_000000332052_00073_24175_2739.N1	14-OCT-2006 22:56:11	Dark	32.500	143	Alp Hyi	2.8570	7200.0	65	24175	No
241	GOM_NL__2PRFIN20061014_225738_000000382052_00073_24175_2740.N1	14-OCT-2006 22:57:38	Dark	37.500	9	Alp Eri	0.45300	24000.	75	24175	No
242	GOM_NL__2PRFIN20061014_230917_000000382052_00073_24175_2741.N1	14-OCT-2006 23:09:17	Straylight	38.000	52	16Bet Cet	2.0370	4500.0	76	24175	No
243	GOM_NL__2PRFIN20061014_231858_000000312052_00073_24175_2742.N1	14-OCT-2006 23:18:58	Bright	31.000	140	88Gam Peg	2.8340	26000.	62	24175	No
244	GOM_NL__2PRFIN20061014_232256_000000322052_00073_24175_2743.N1	14-OCT-2006 23:22:56	Bright	31.500	58	21Alp And	2.0730	11000.	63	24175	No
245	GOM_NL__2PRFIN20061014_233101_000000322052_00073_24175_2744.N1	14-OCT-2006 23:31:01	Bright	32.000	68	18Alp Cas	2.2250	4500.0	64	24175	No
246	GOM_NL__2PRFIN20061014_233223_000000322052_00073_24175_2745.N1	14-OCT-2006 23:32:23	Bright	31.500	76	27Gam Cas	2.3000	30000.	63	24175	No
247	GOM_NL__2PRFIN20061014_233958_000000282052_00073_24175_2746.N1	14-OCT-2006 23:39:58	Bright	28.000	49	1Alp UMi	1.9900	6300.0	56	24175	No
248	GOM_NL__2PRFIN20061014_234812_000000312052_00073_24175_2747.N1	14-OCT-2006 23:48:12	Bright	31.000	36	50Alp UMa	1.8000	6300.0	62	24175	No
249	GOM_NL__2PRFIN20061014_234944_000000302052_00073_24175_2748.N1	14-OCT-2006 23:49:44	Bright	29.500	82	48Bet UMa	2.3650	10600.	59	24175	No
250	GOM_NL__2PRFIN20061014_235307_000000352052_00073_24175_2749.N1	14-OCT-2006 23:53:07	Bright	34.500	174	52Psi UMa	3.0040	4400.0	69	24175	No

3. Quality information per product

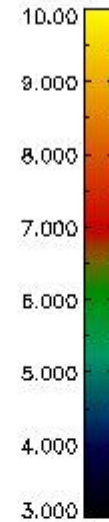
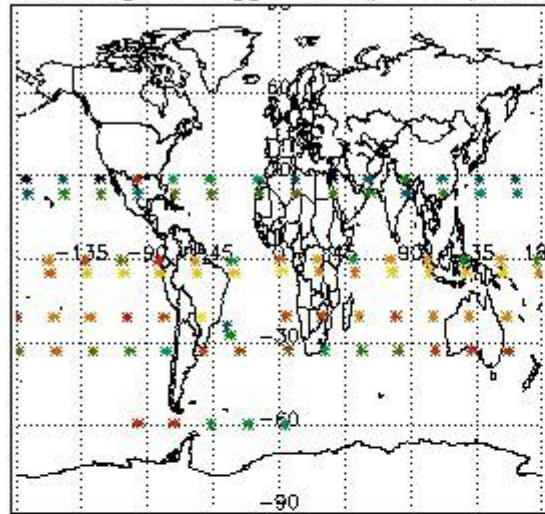
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

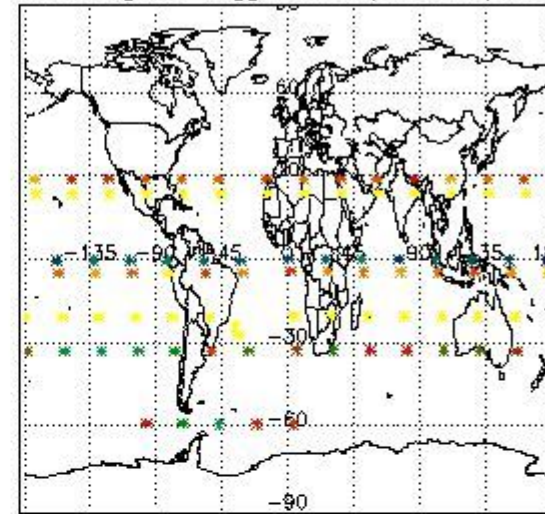


3.2 Plot quality information per product (world map)

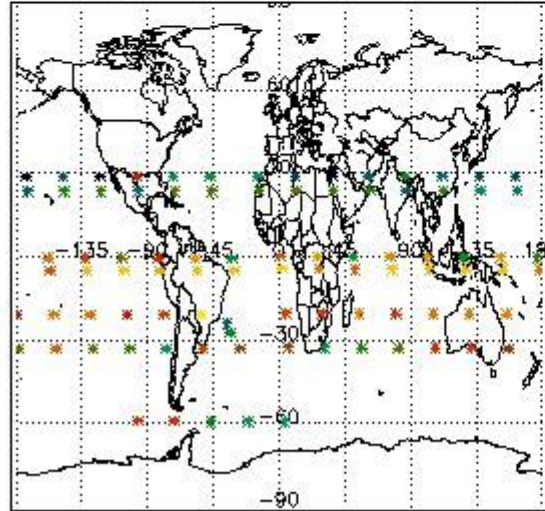
Percentage of flagged data per O3 profile



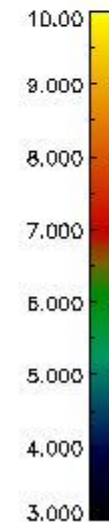
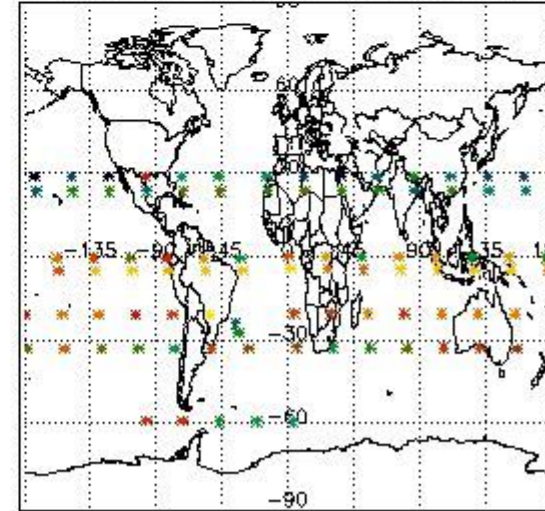
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

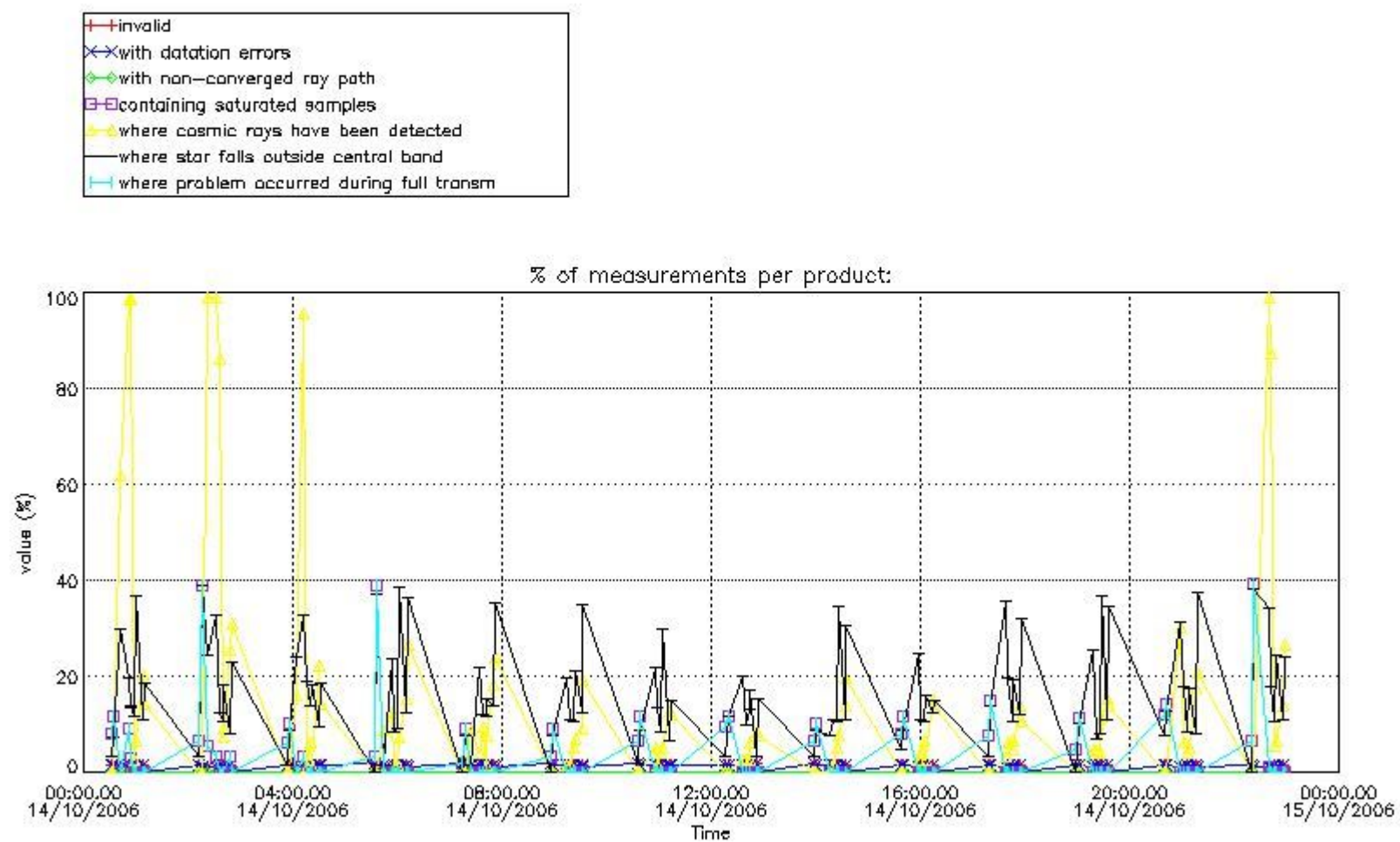


4. Level 1 quality information per product

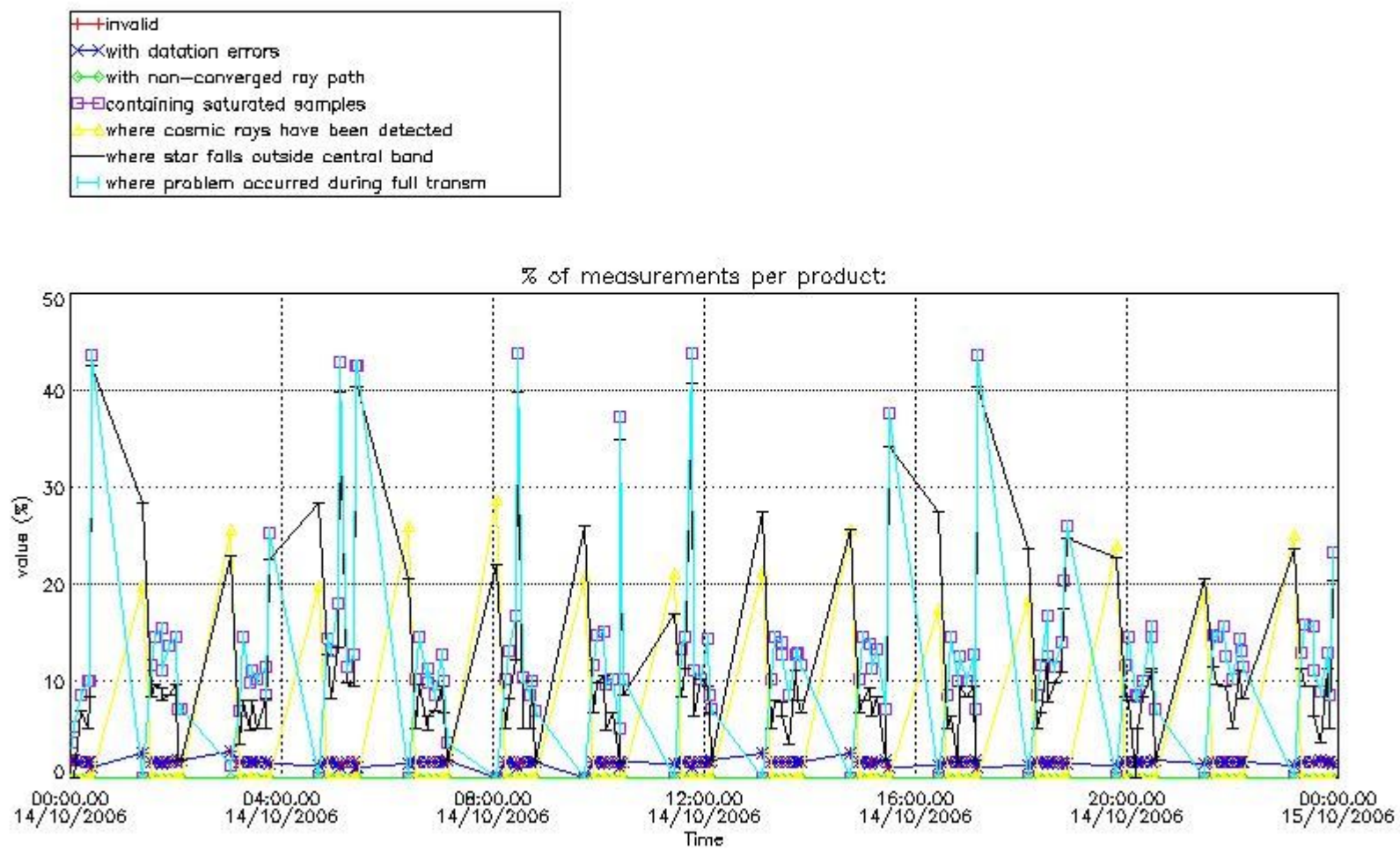
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



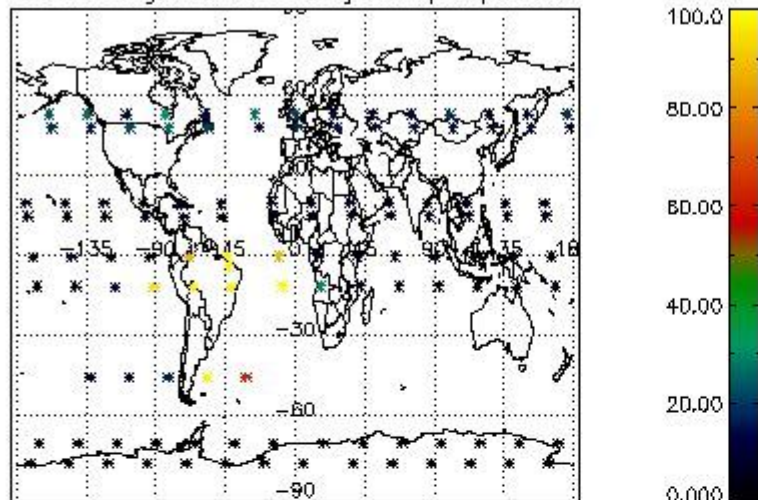
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



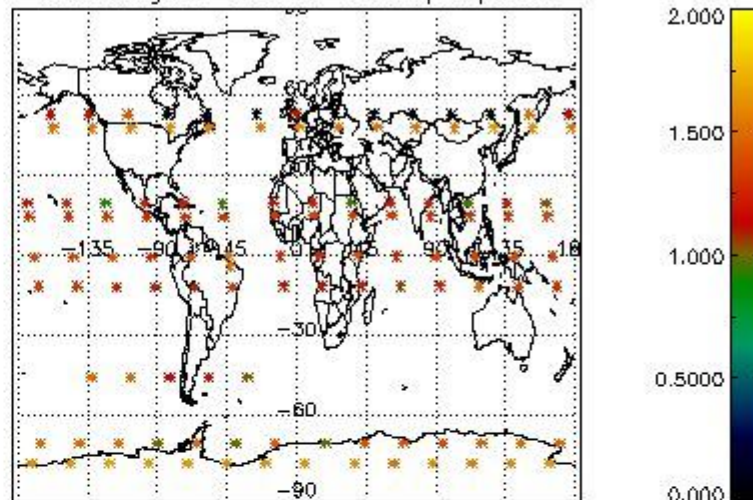
4.2 Plot quality information per product coming from level 1b processing (world map)

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

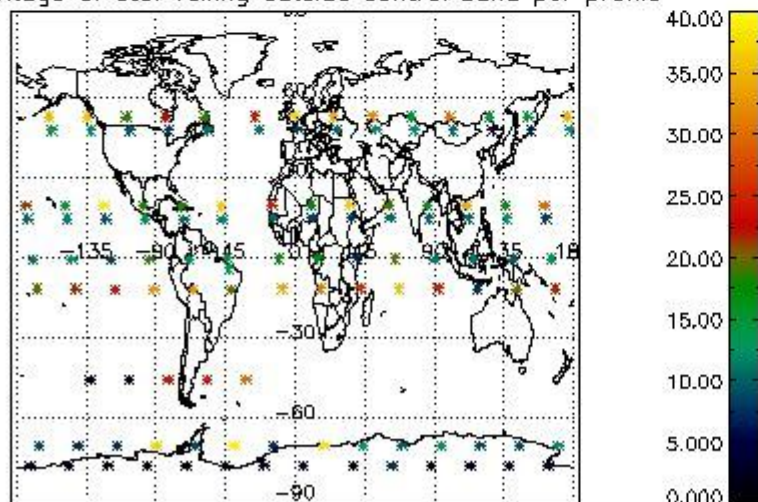
Percentage of cosmic ray hits per profile



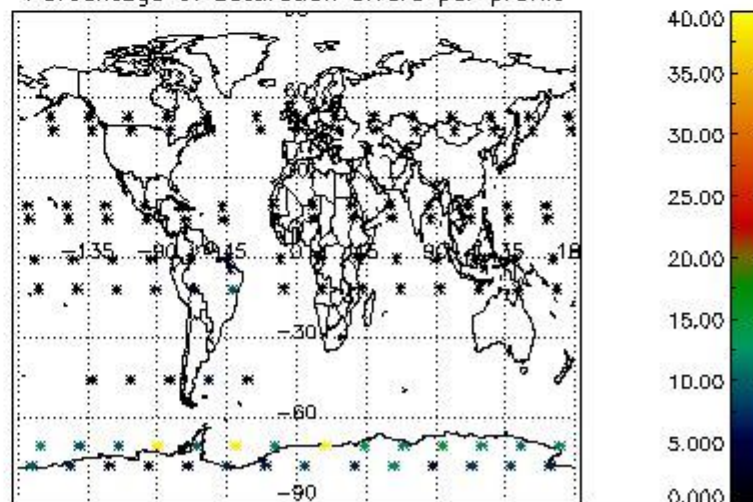
Percentage of datation errors per profile



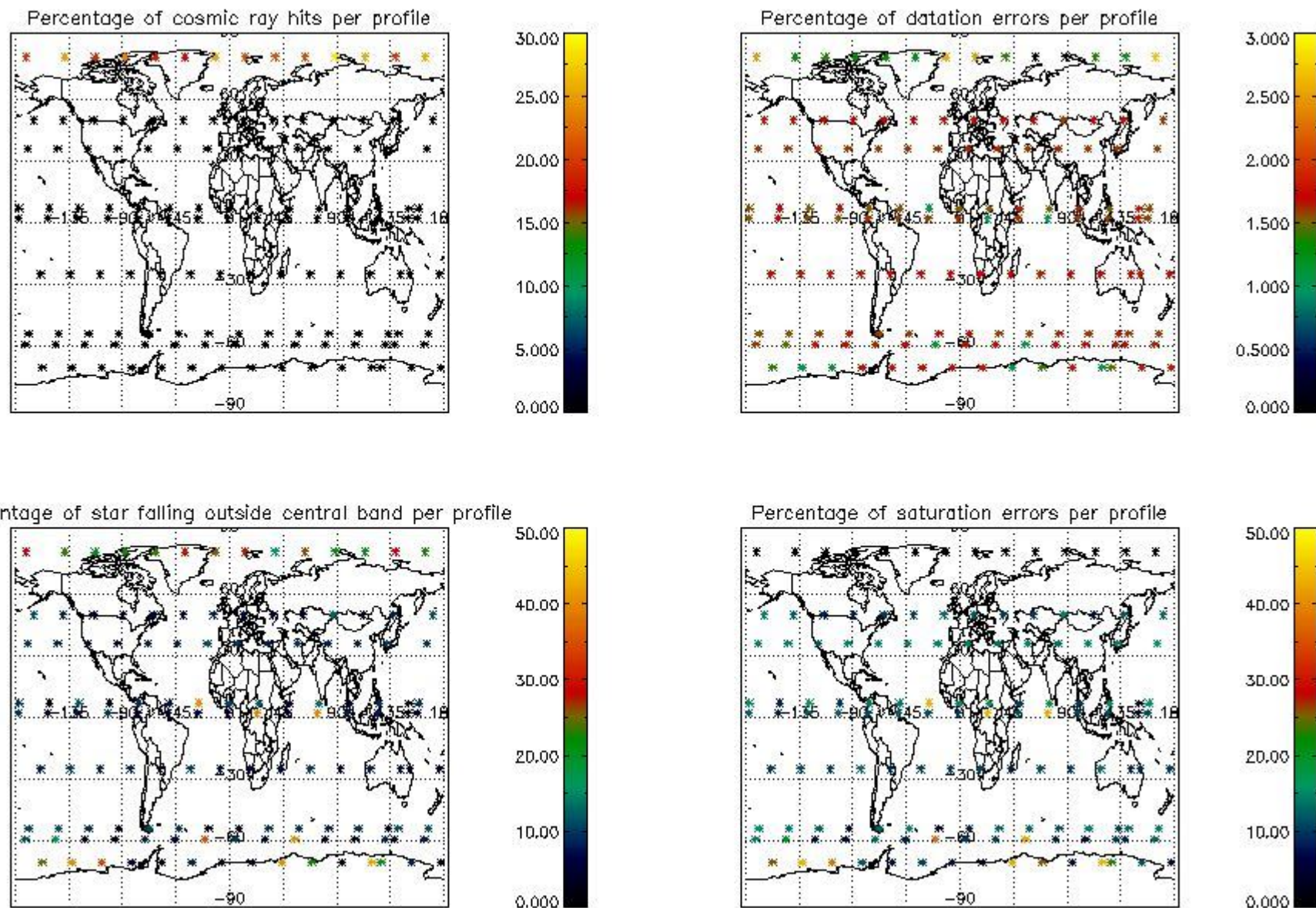
Percentage of star falling outside central band per profile



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

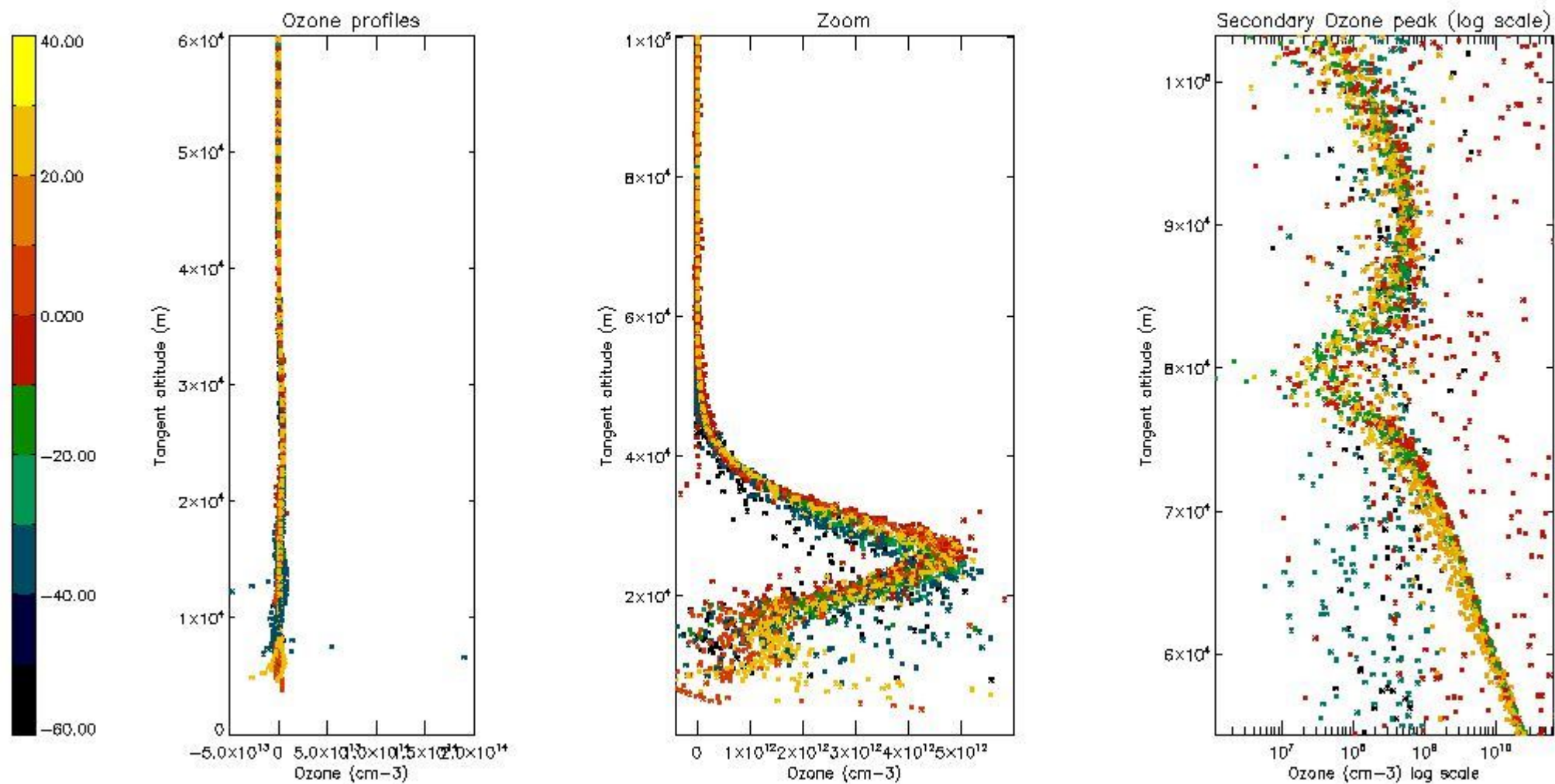
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	41
STD < 20	22

STD < 10	17
STD < 5	12

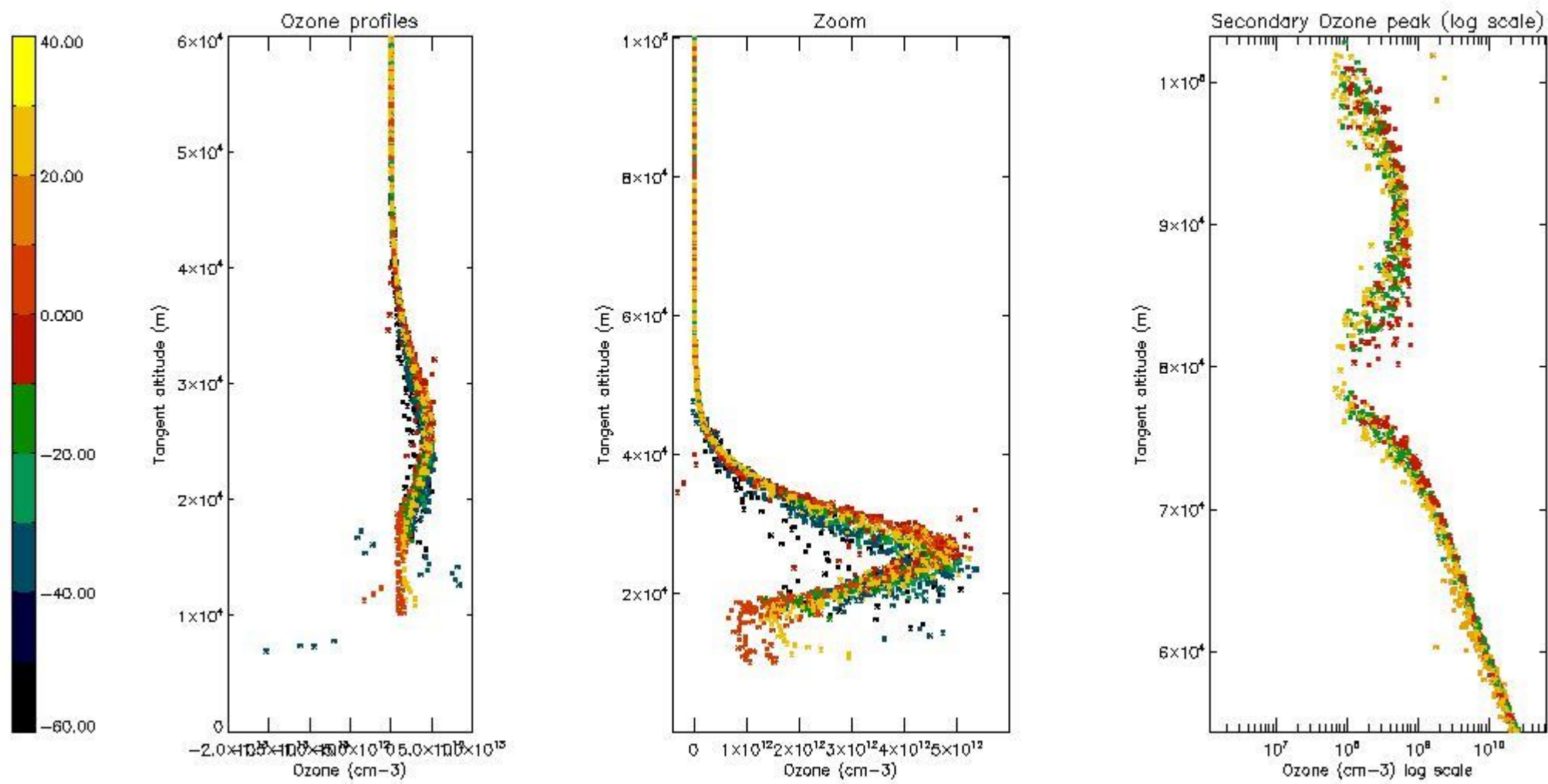
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



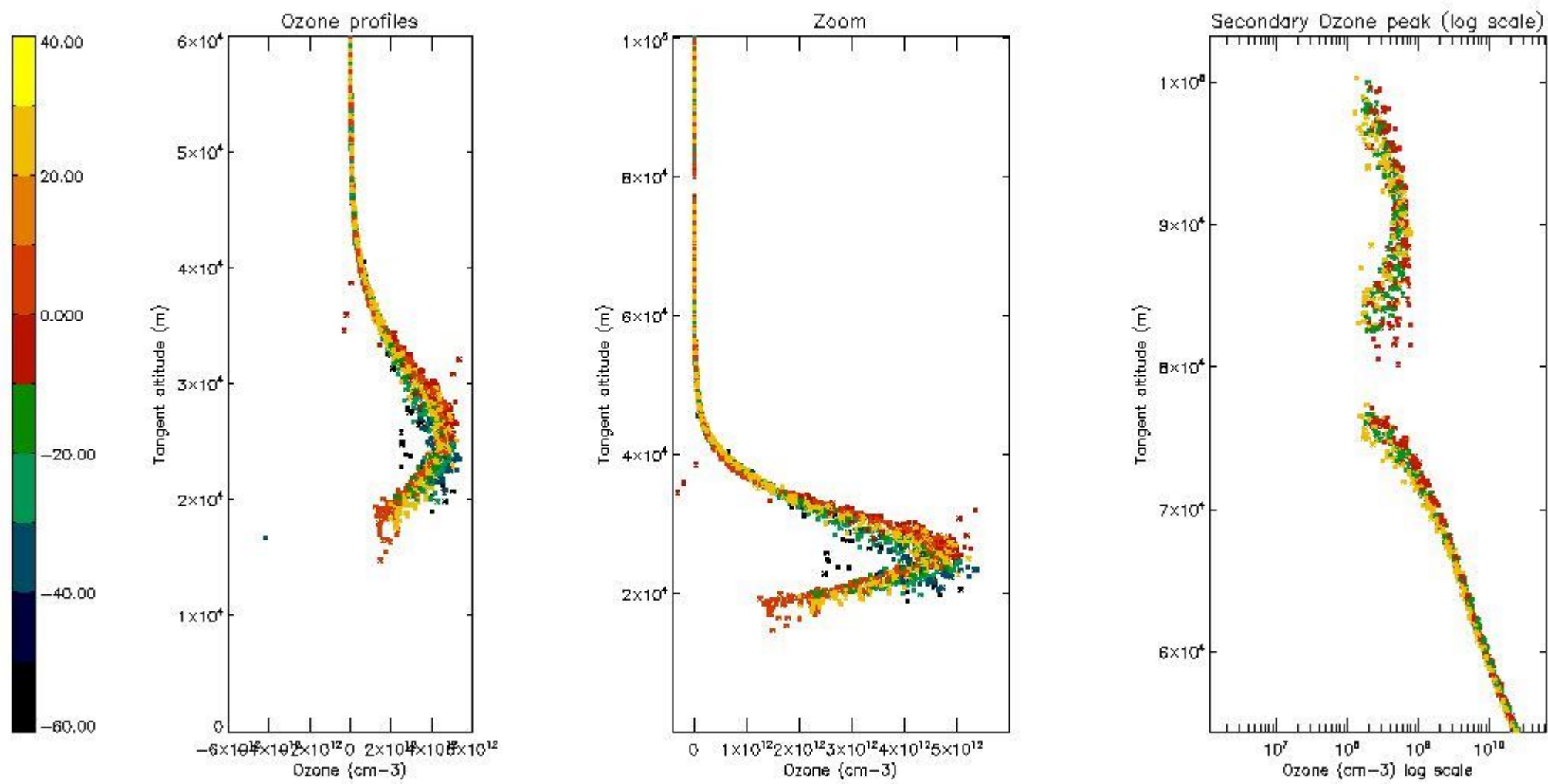
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



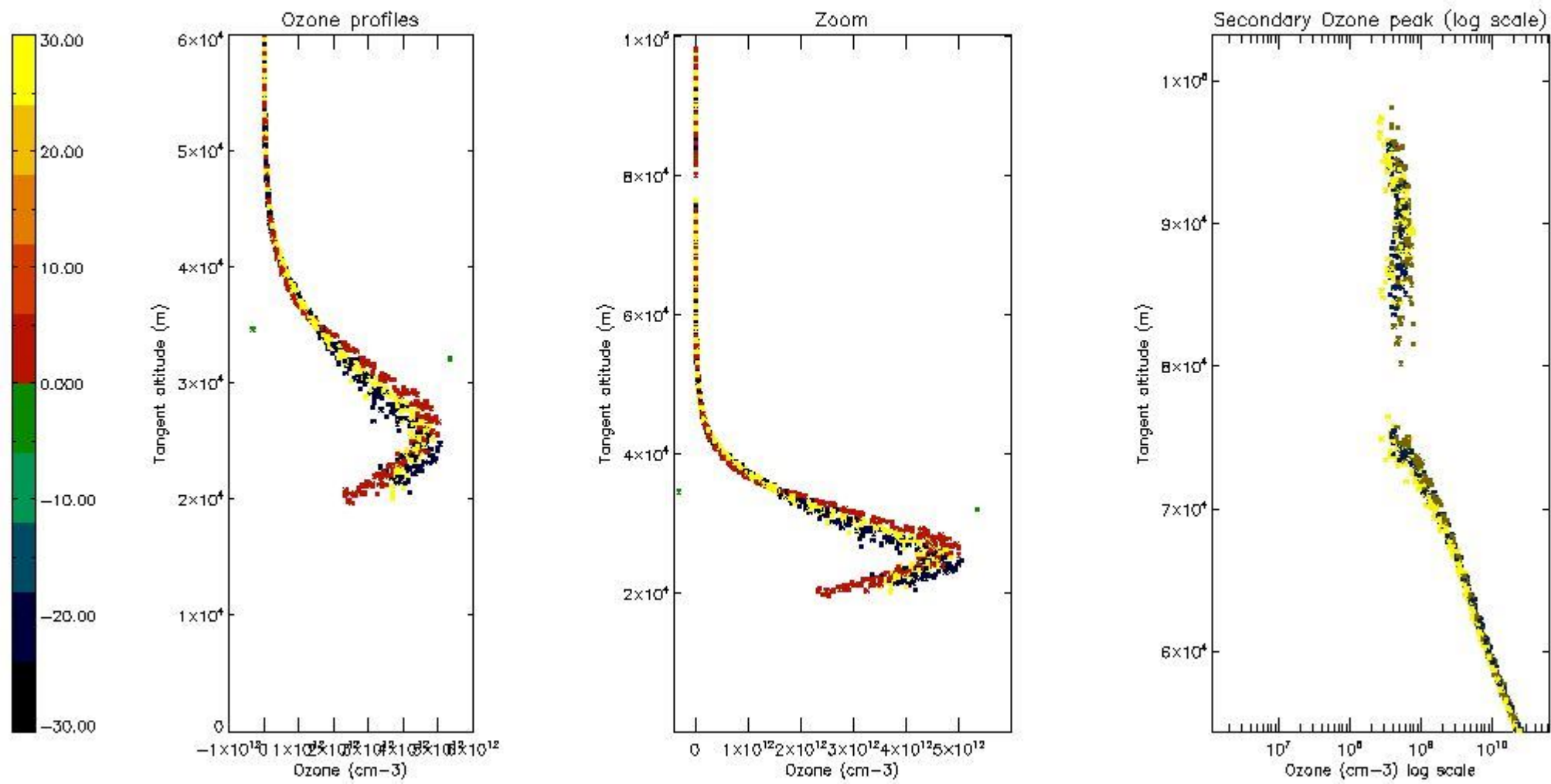
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



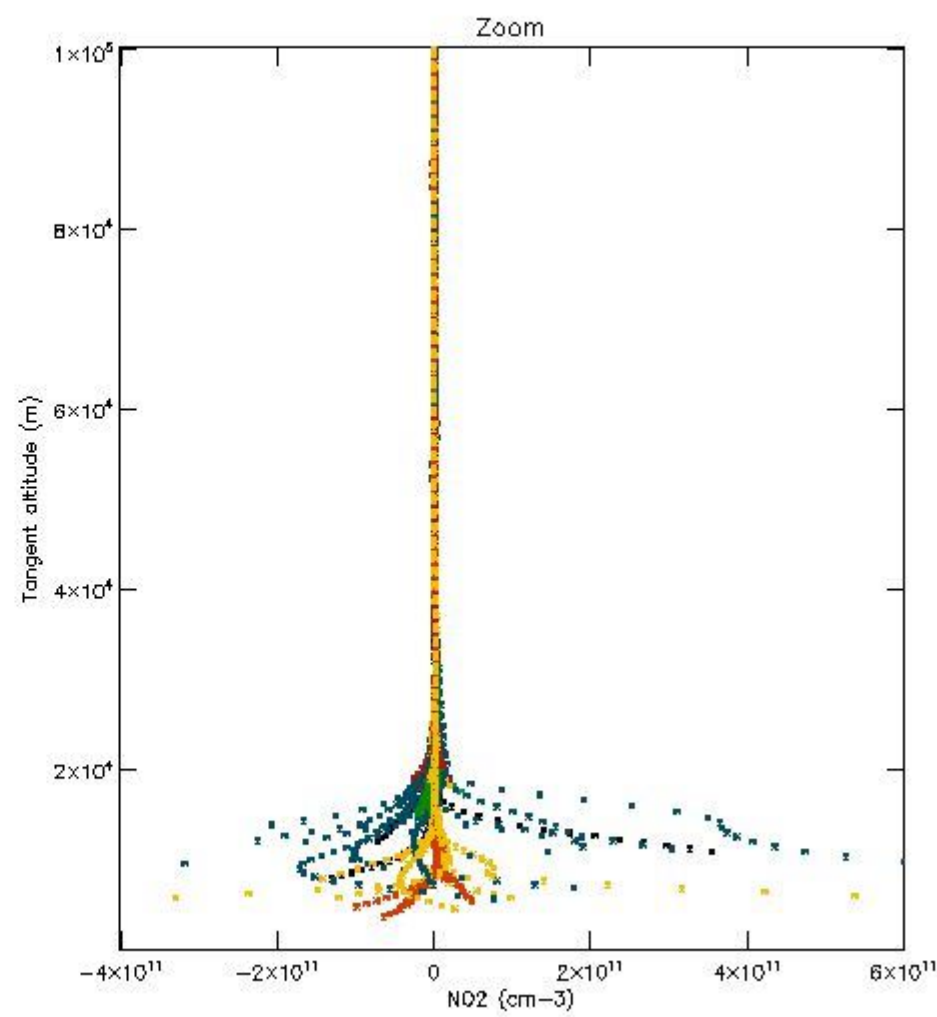
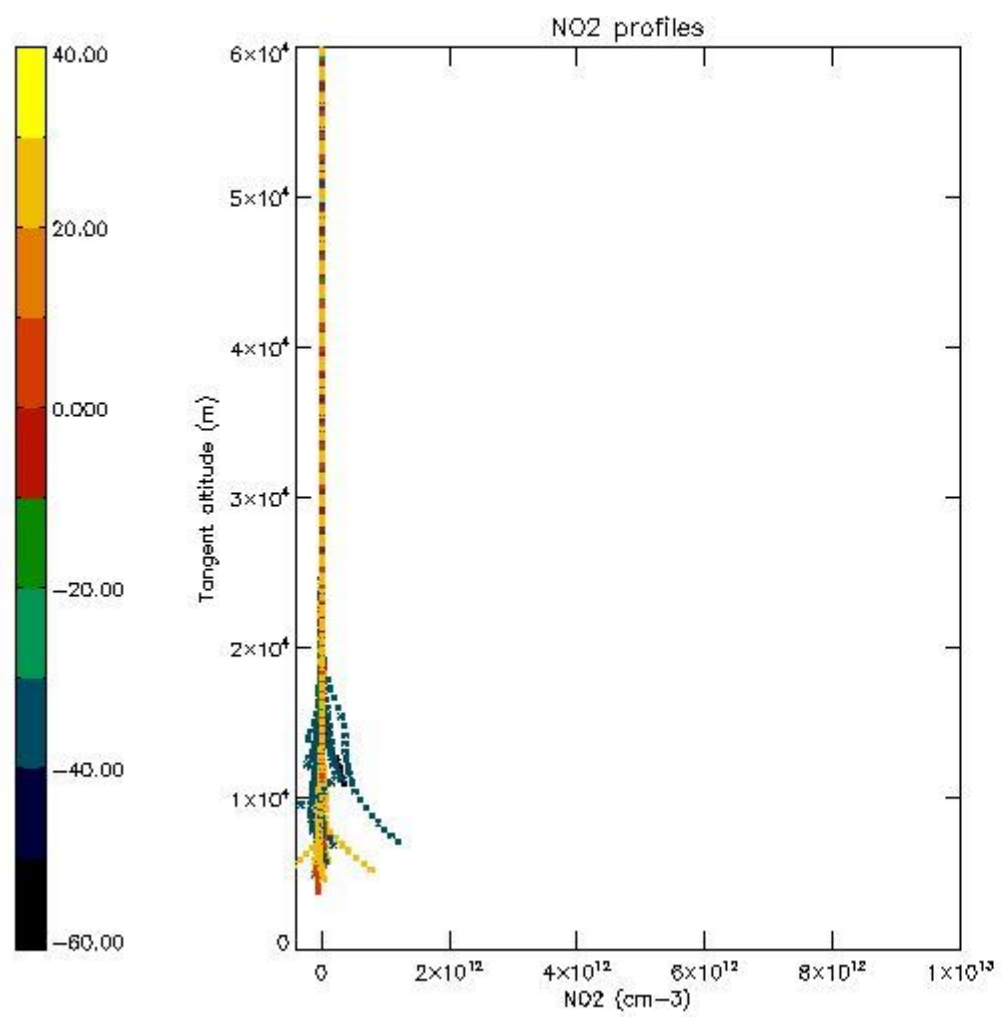
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



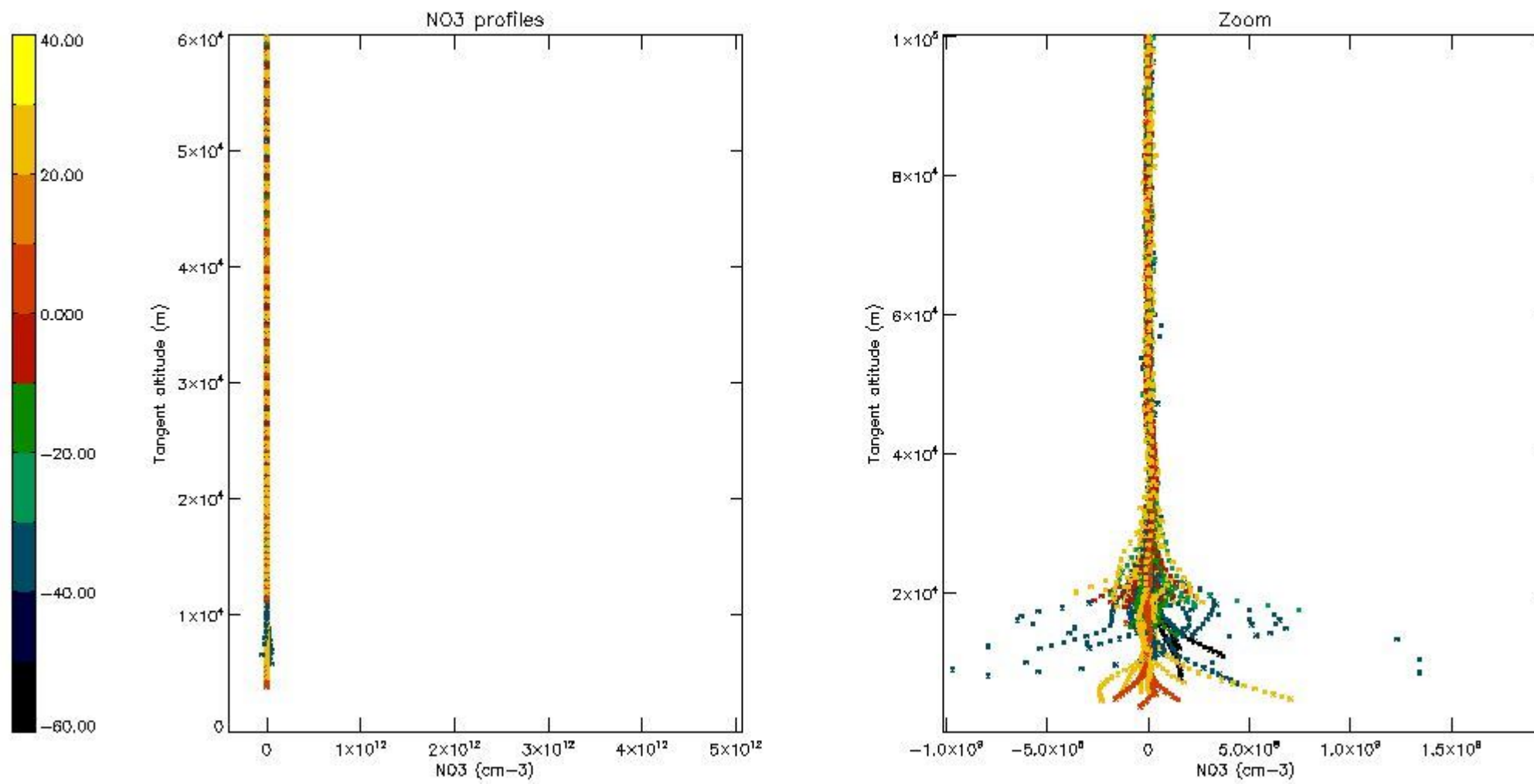
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

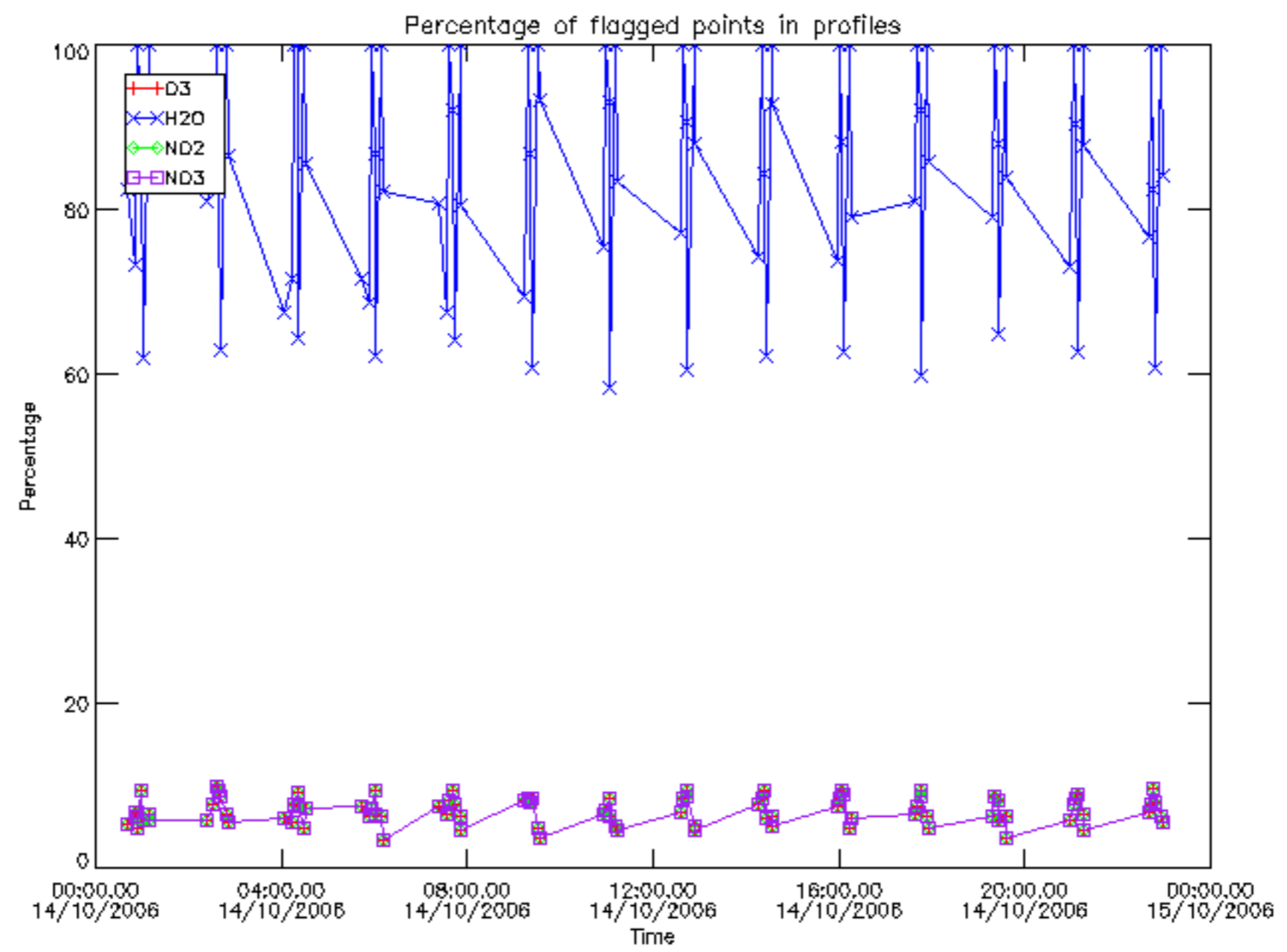
The colorbar represents the latitude.



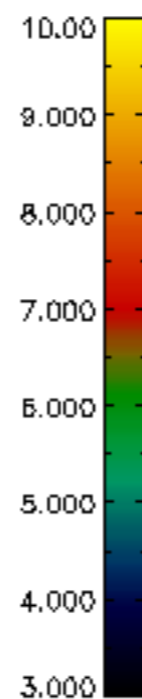
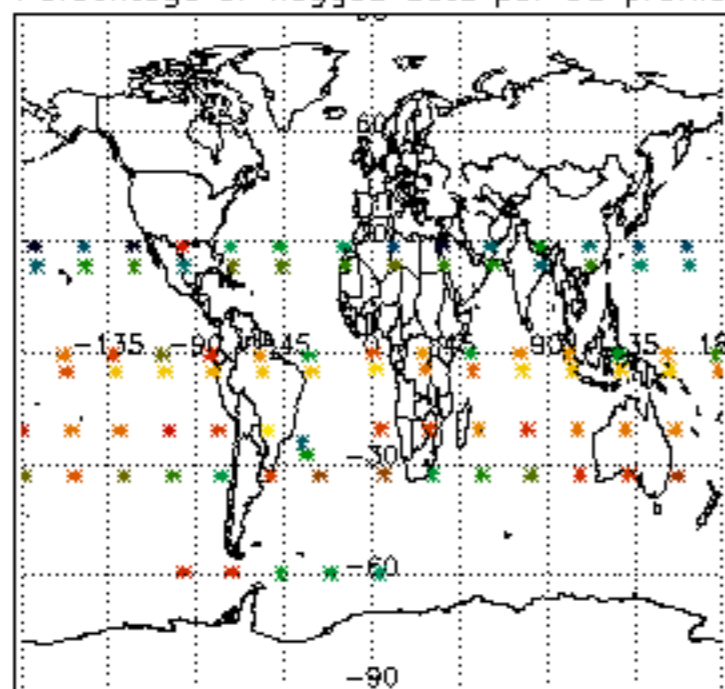
6. Auxiliary Data Files used for the production reported in section 2

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.

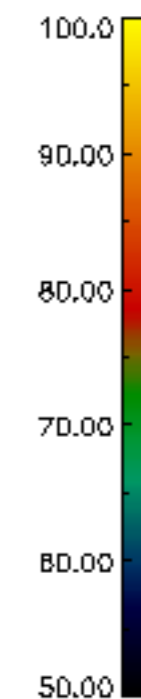
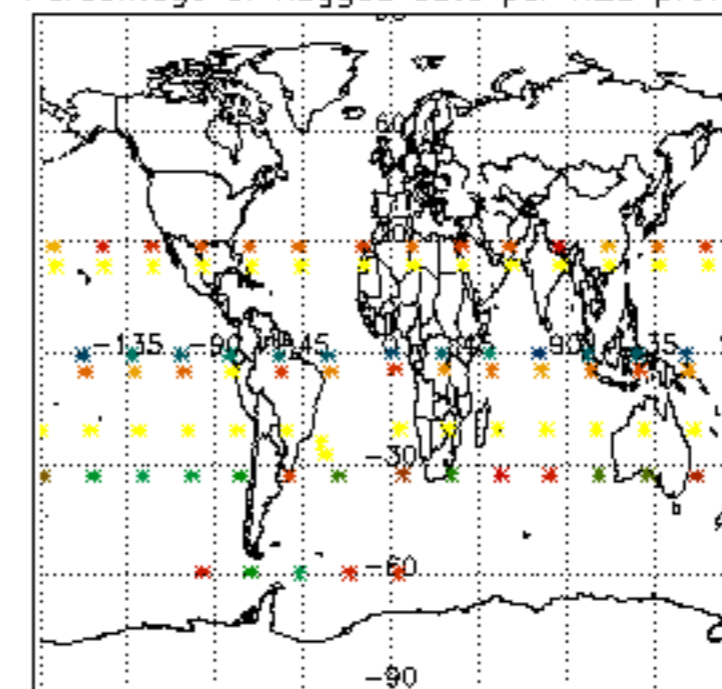
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	14-OCT-2006 00:02:41
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	14-OCT-2006 00:02:41
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	14-OCT-2006 00:02:41



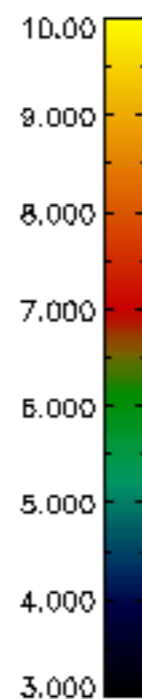
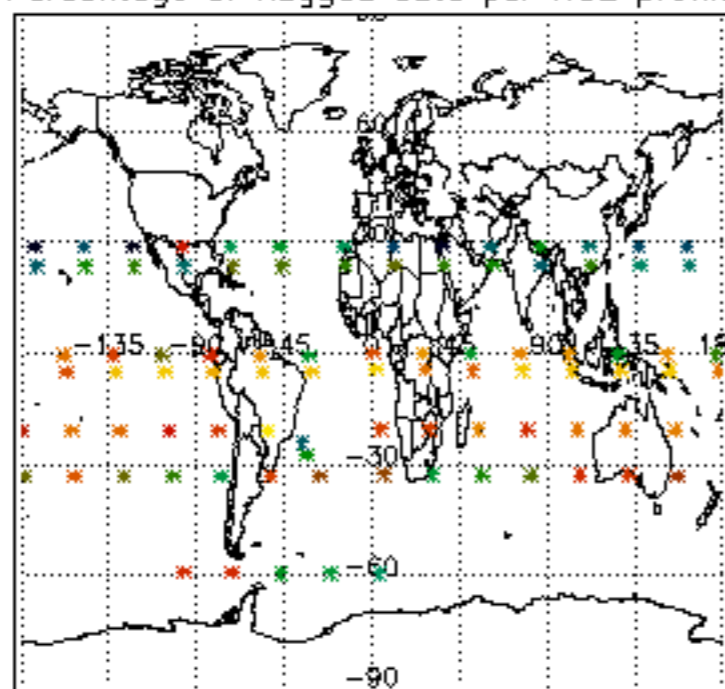
Percentage of flagged data per D3 profile



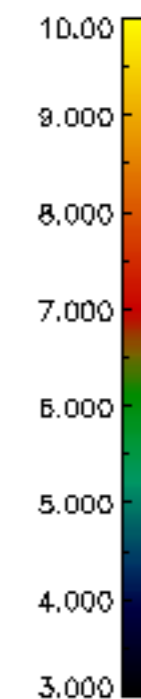
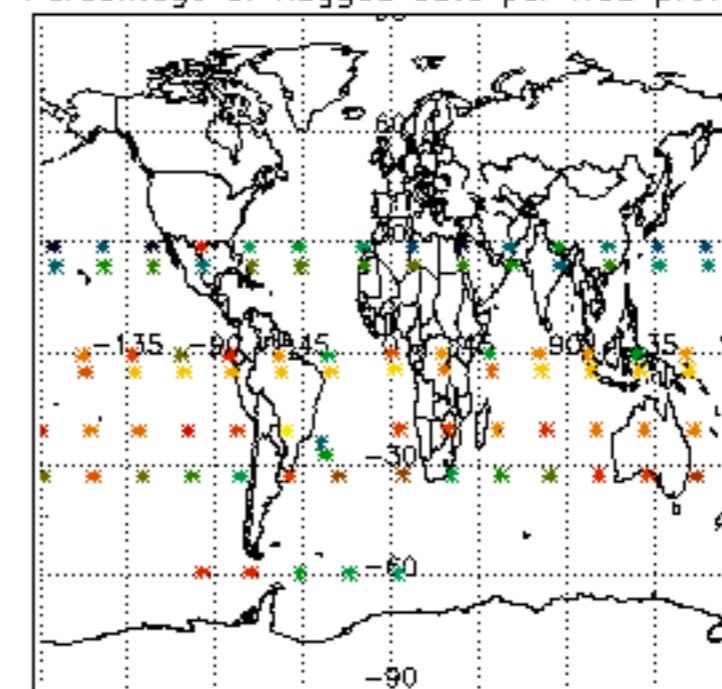
Percentage of flagged data per H2O profile

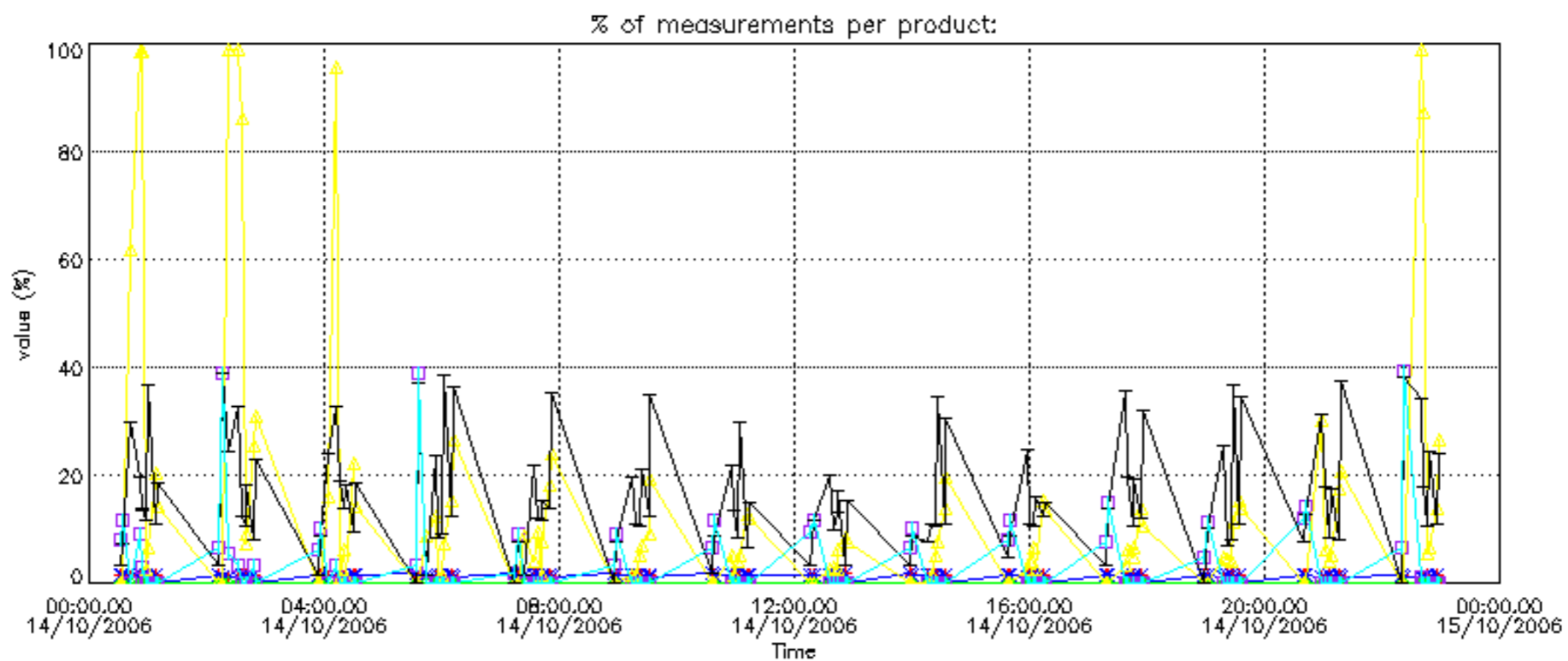


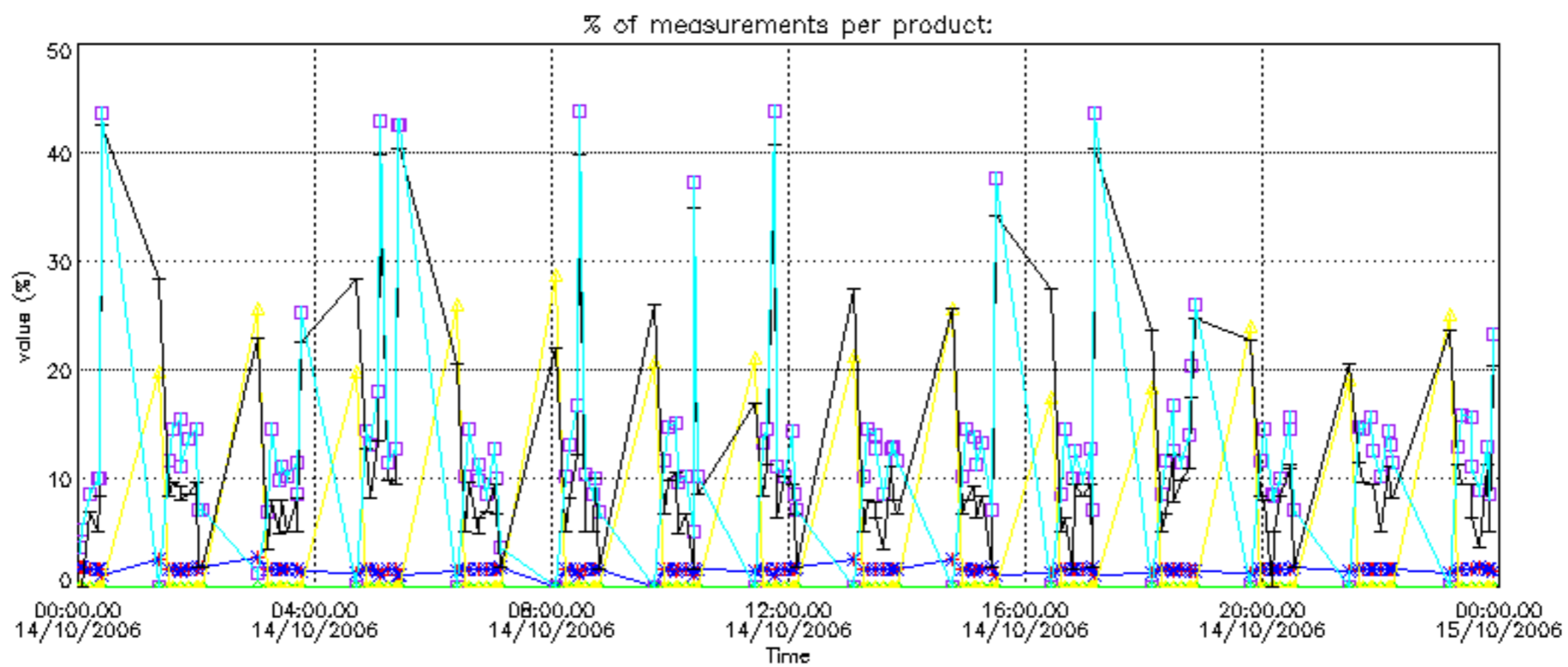
Percentage of flagged data per NO2 profile



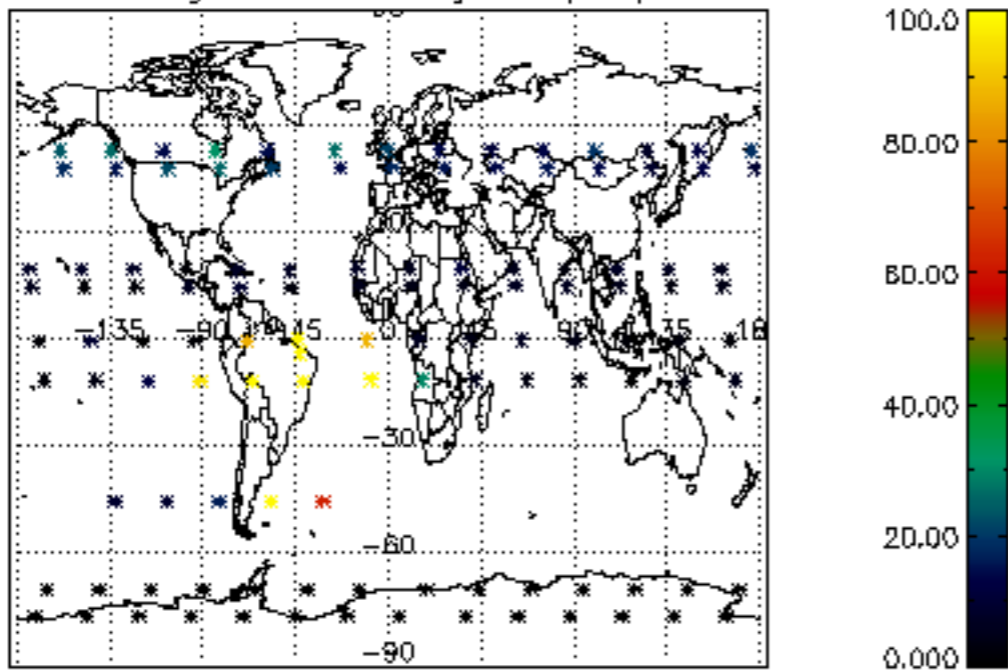
Percentage of flagged data per NO3 profile



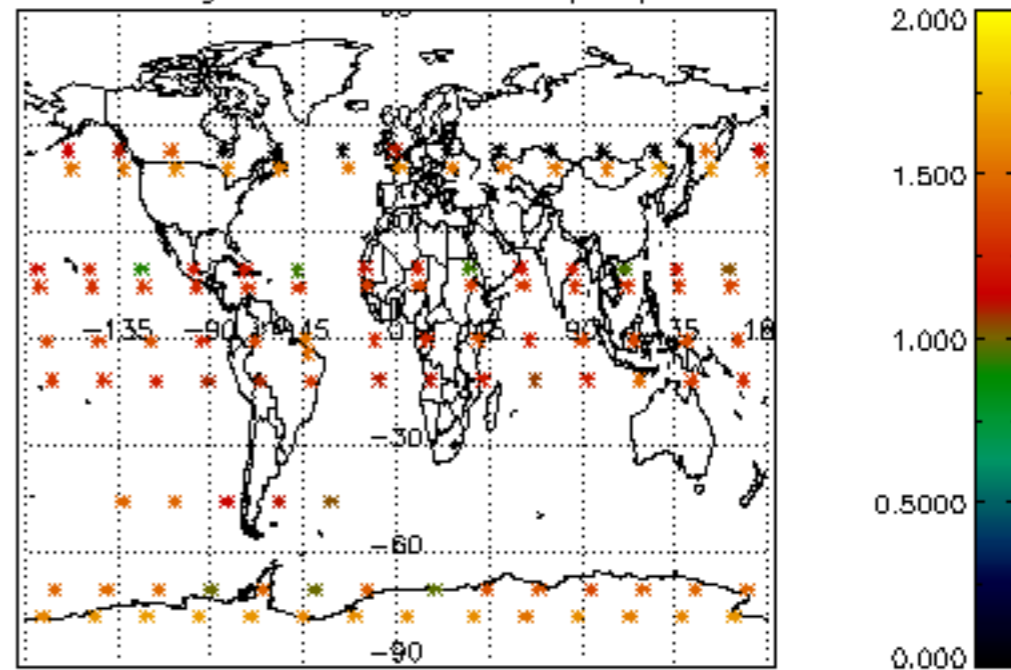




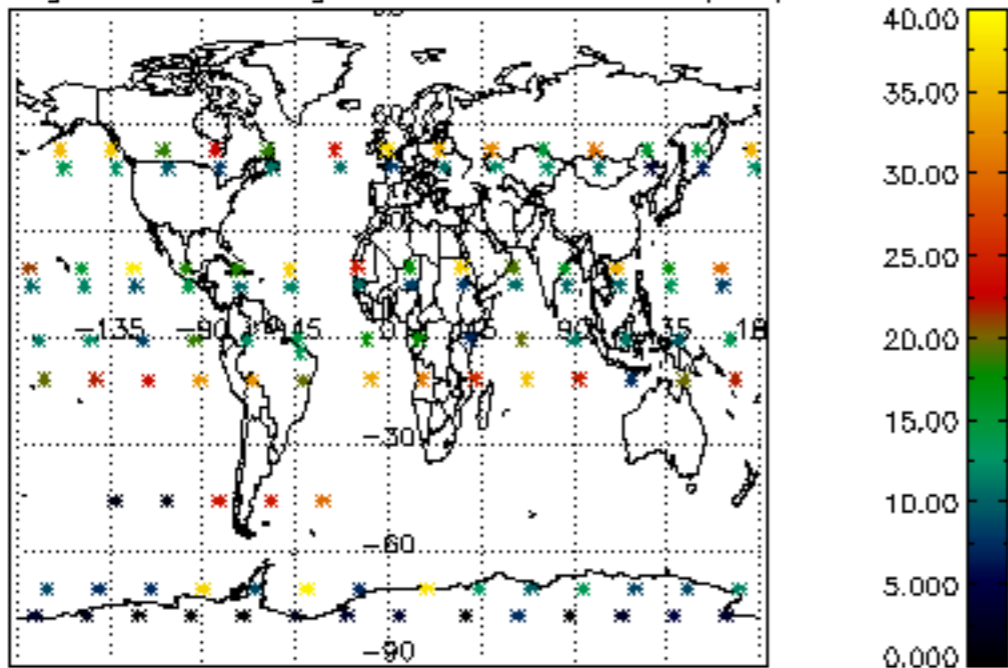
Percentage of cosmic ray hits per profile



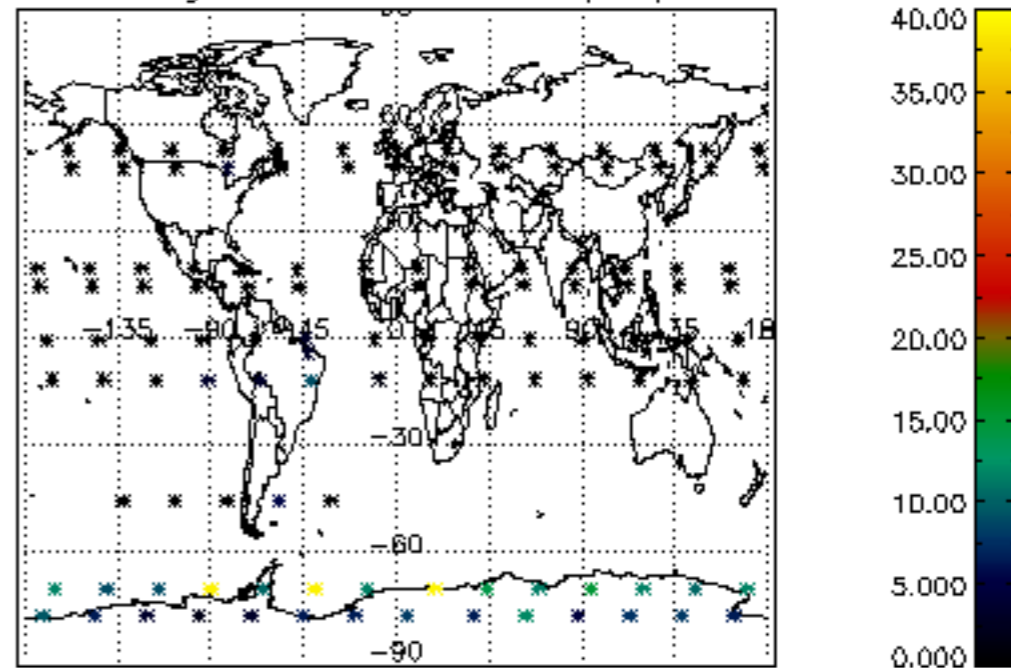
Percentage of datation errors per profile



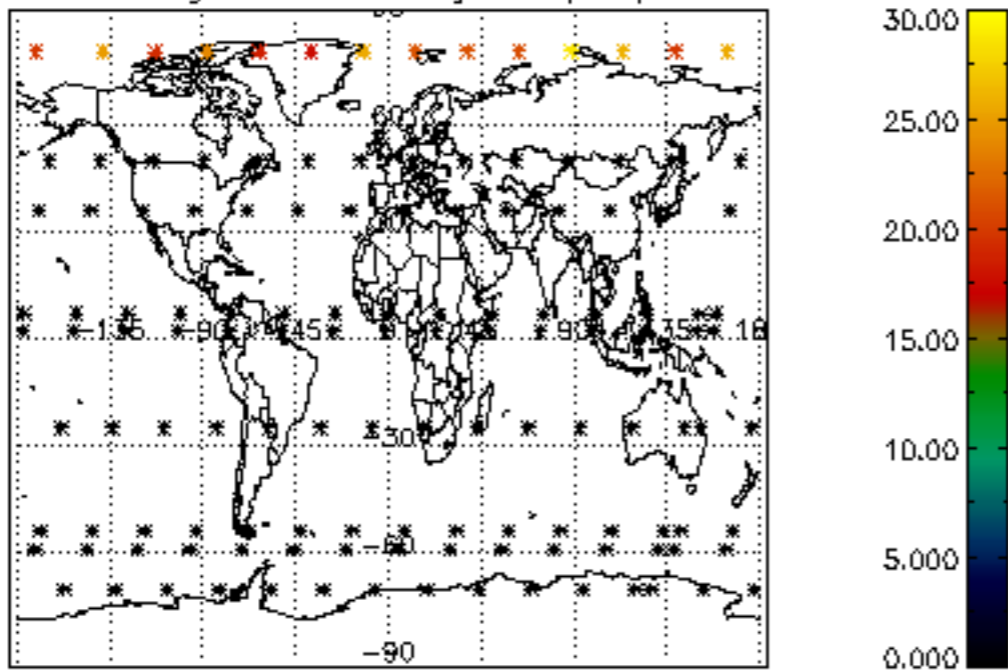
Percentage of star falling outside central band per profile



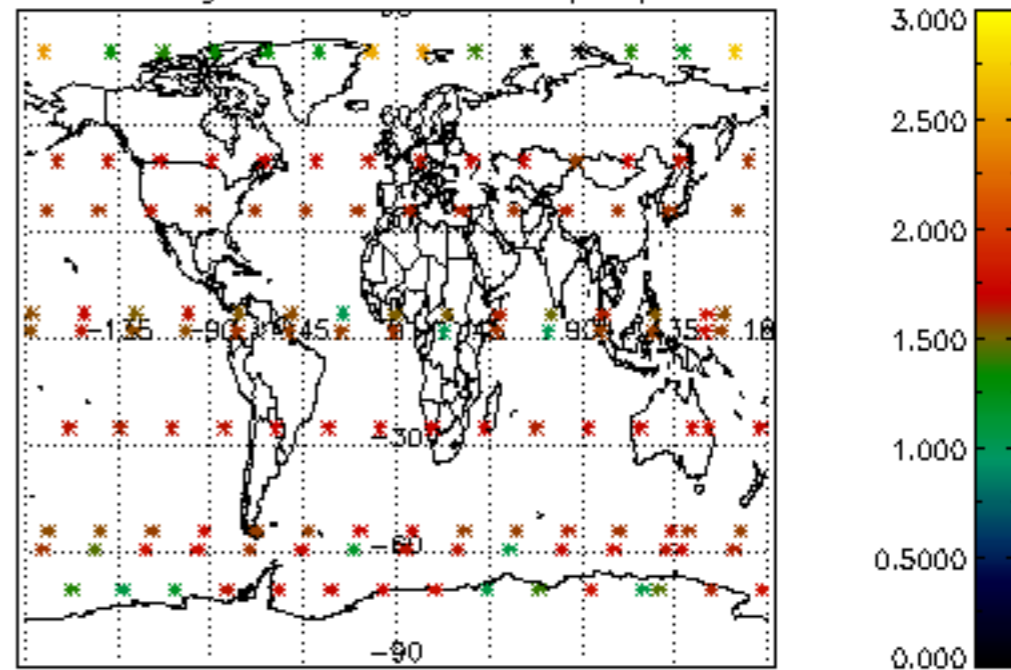
Percentage of saturation errors per profile



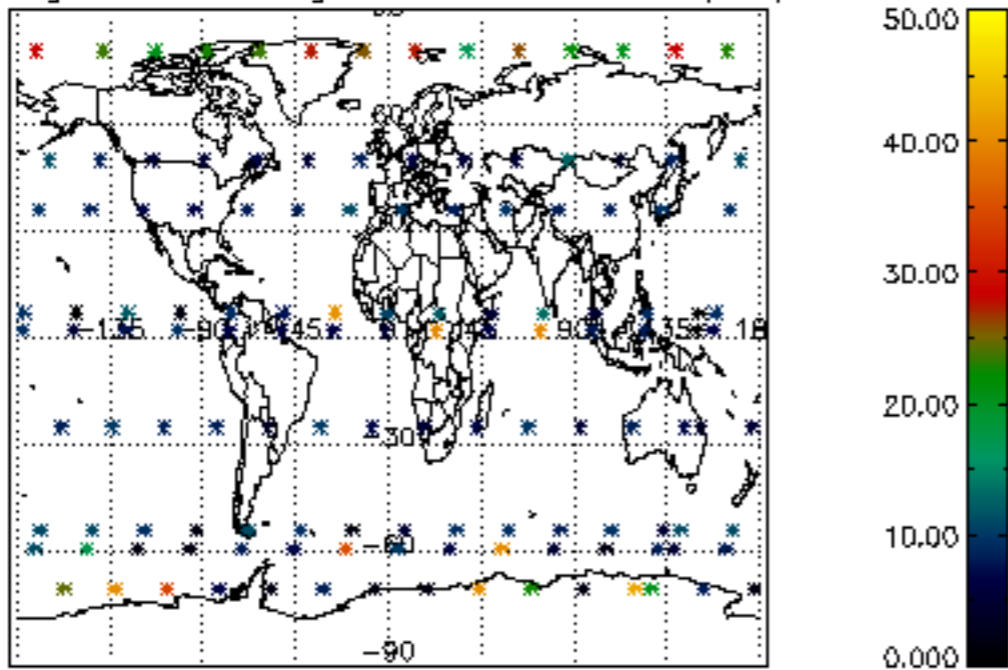
Percentage of cosmic ray hits per profile



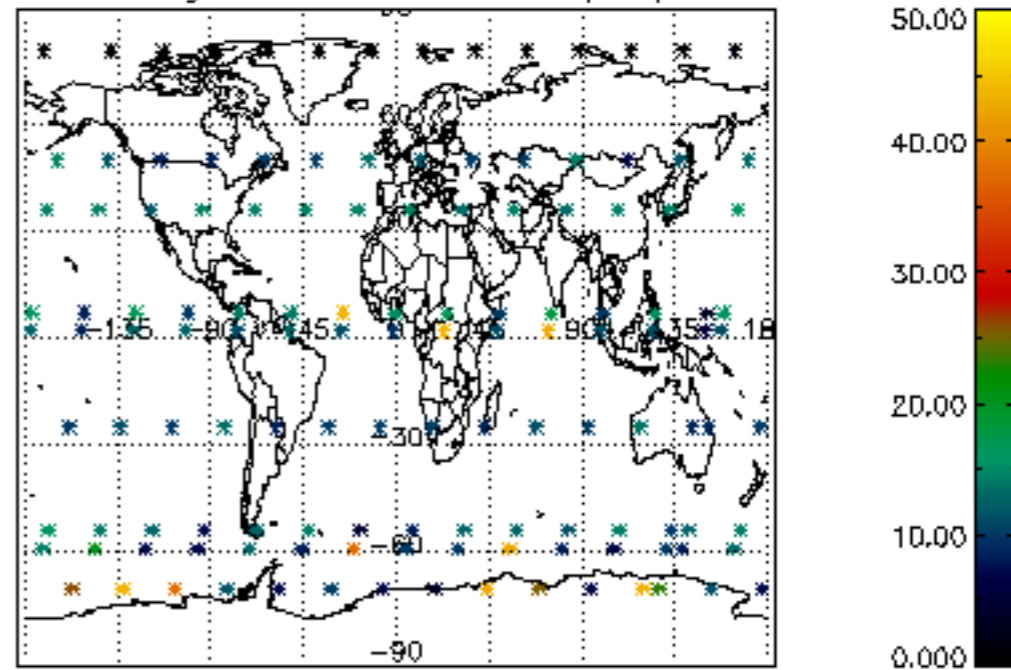
Percentage of datation errors per profile

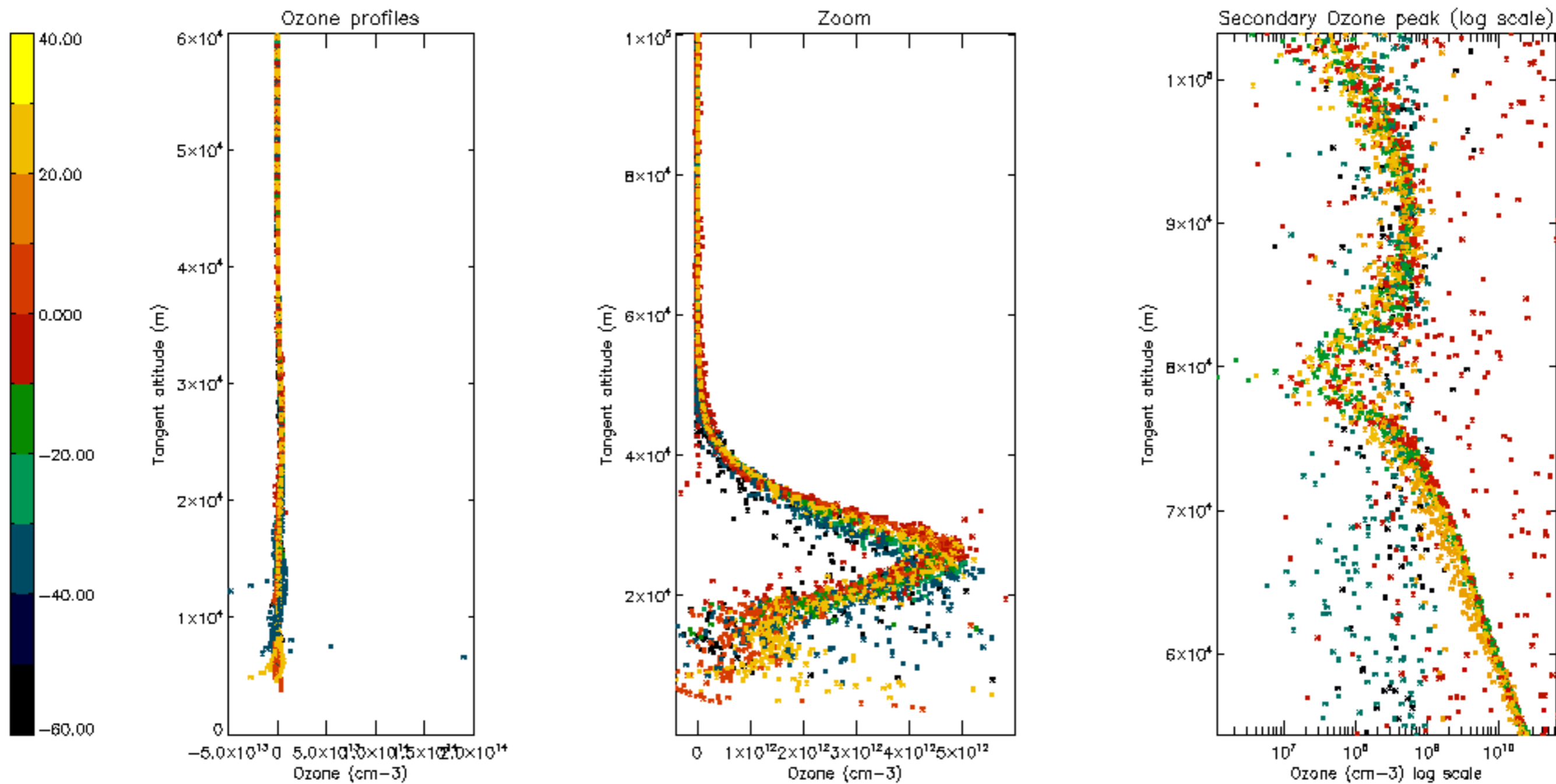


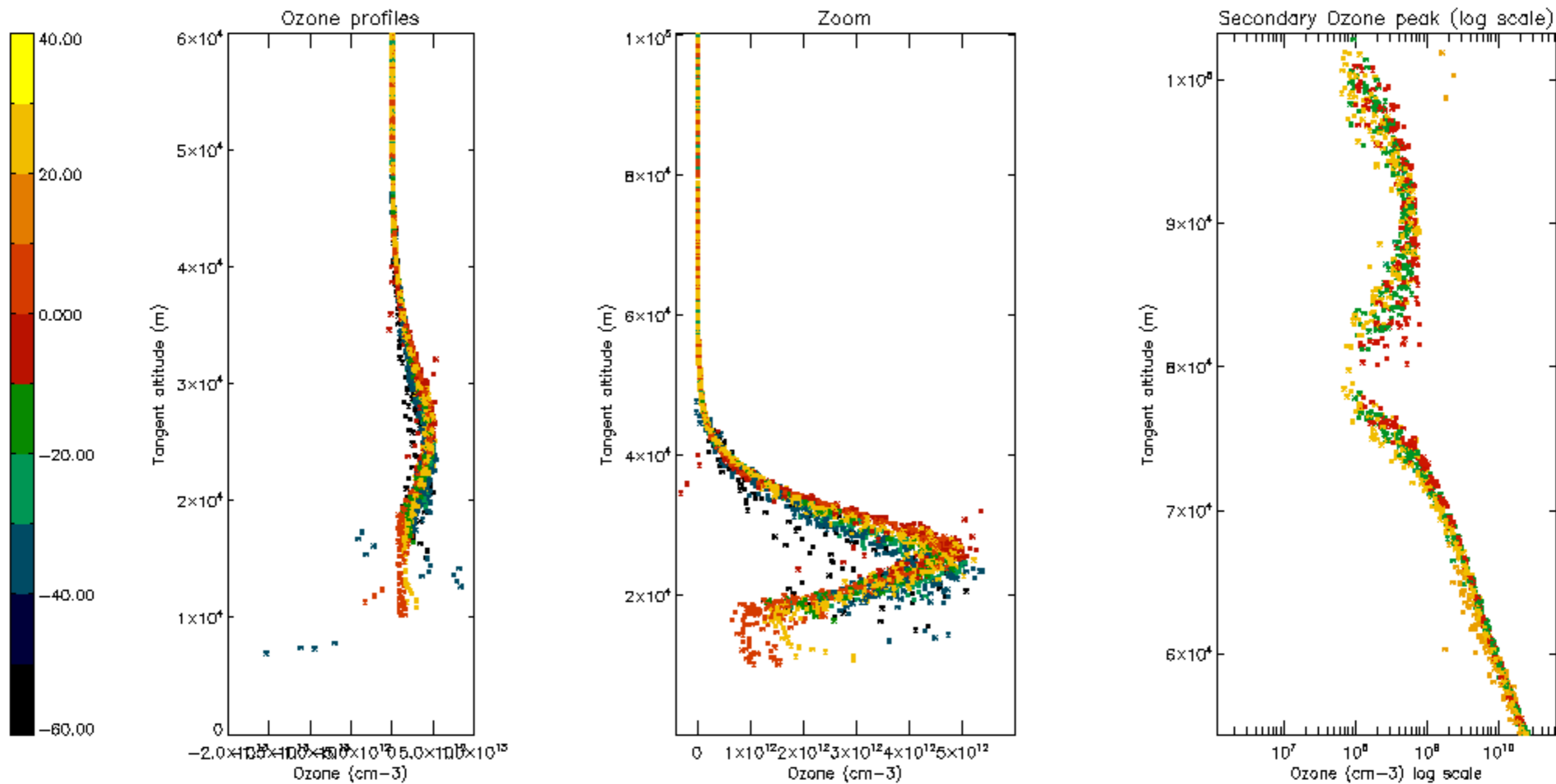
Percentage of star falling outside central band per profile

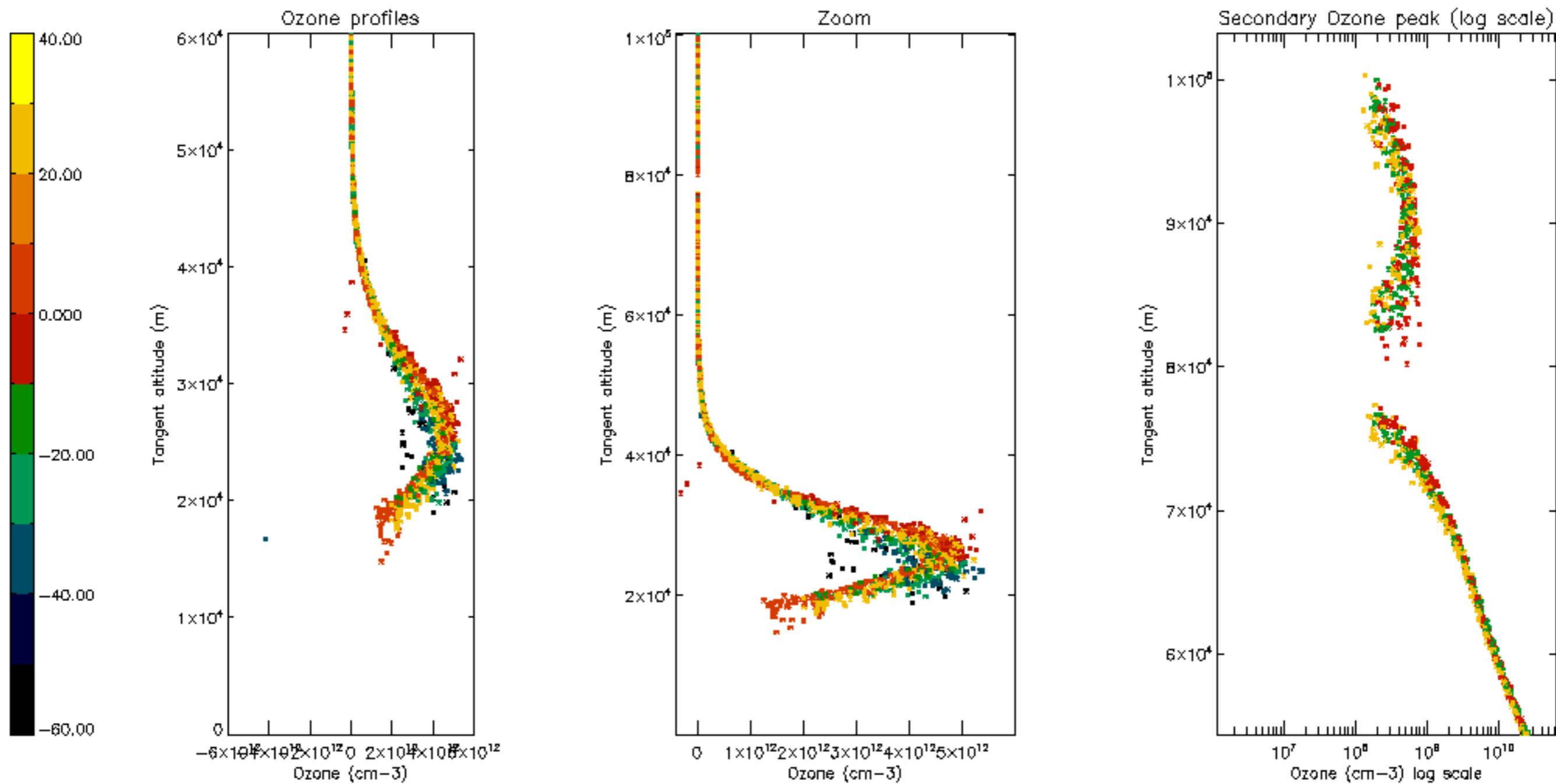


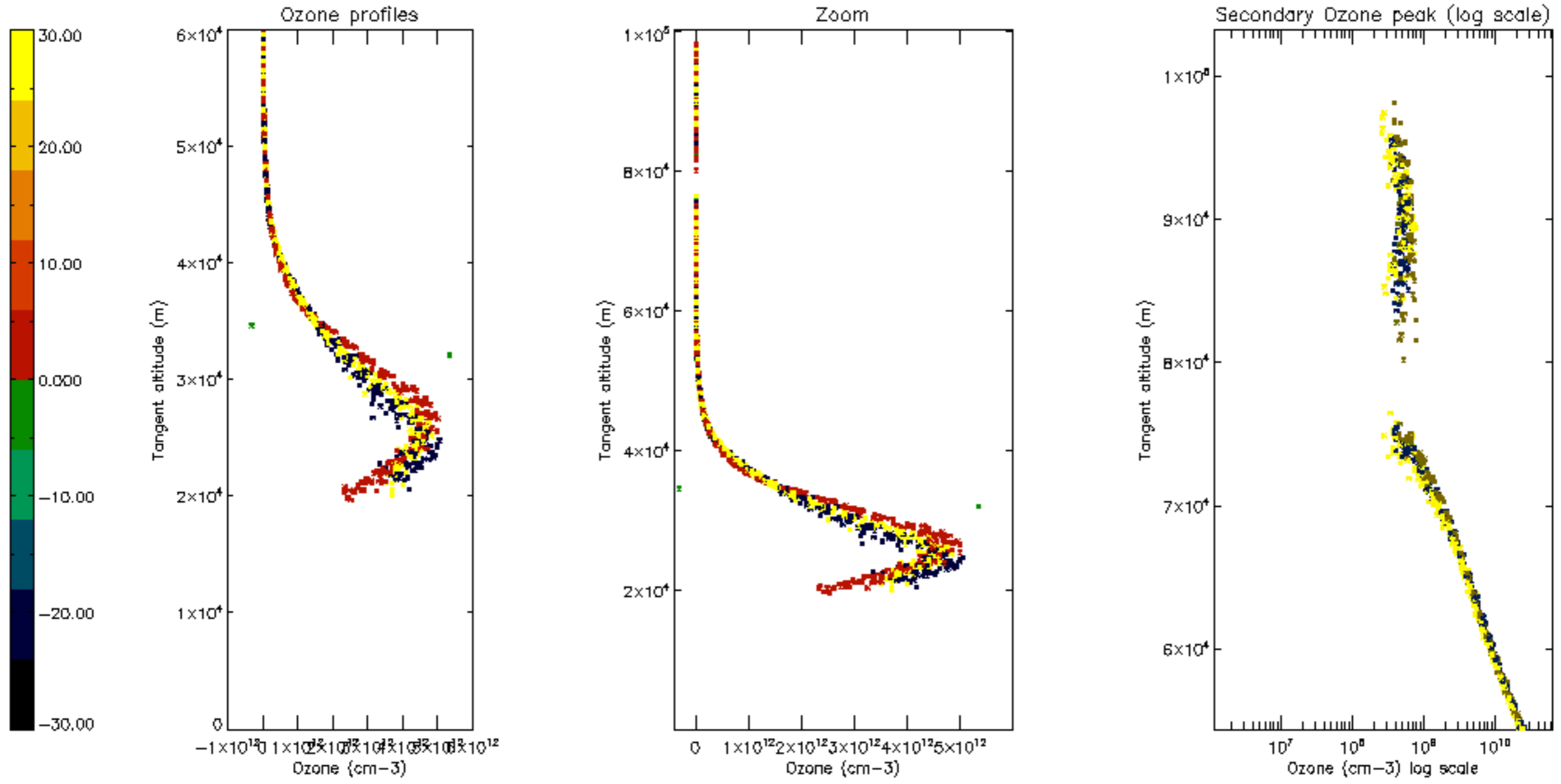
Percentage of saturation errors per profile

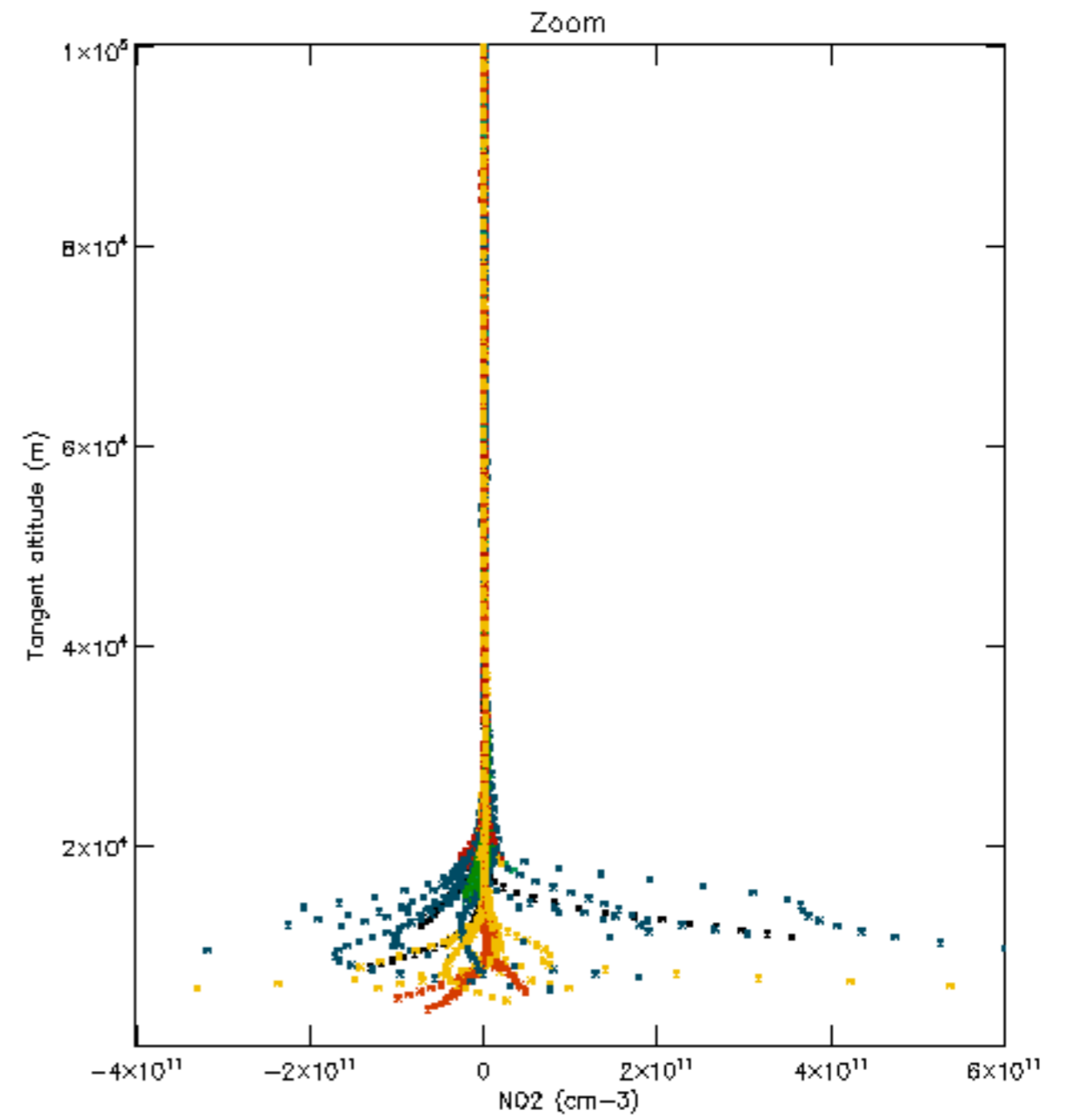
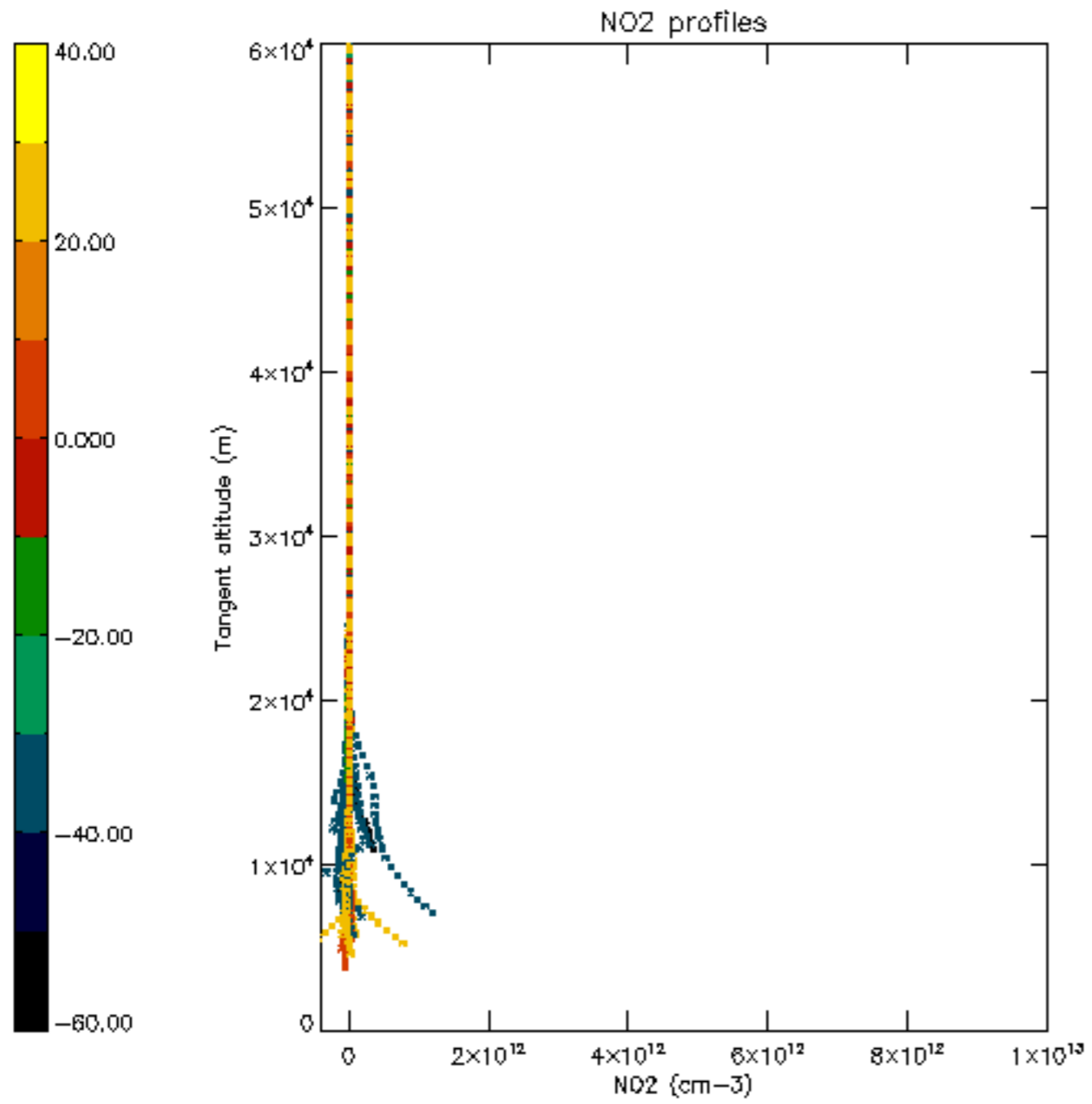


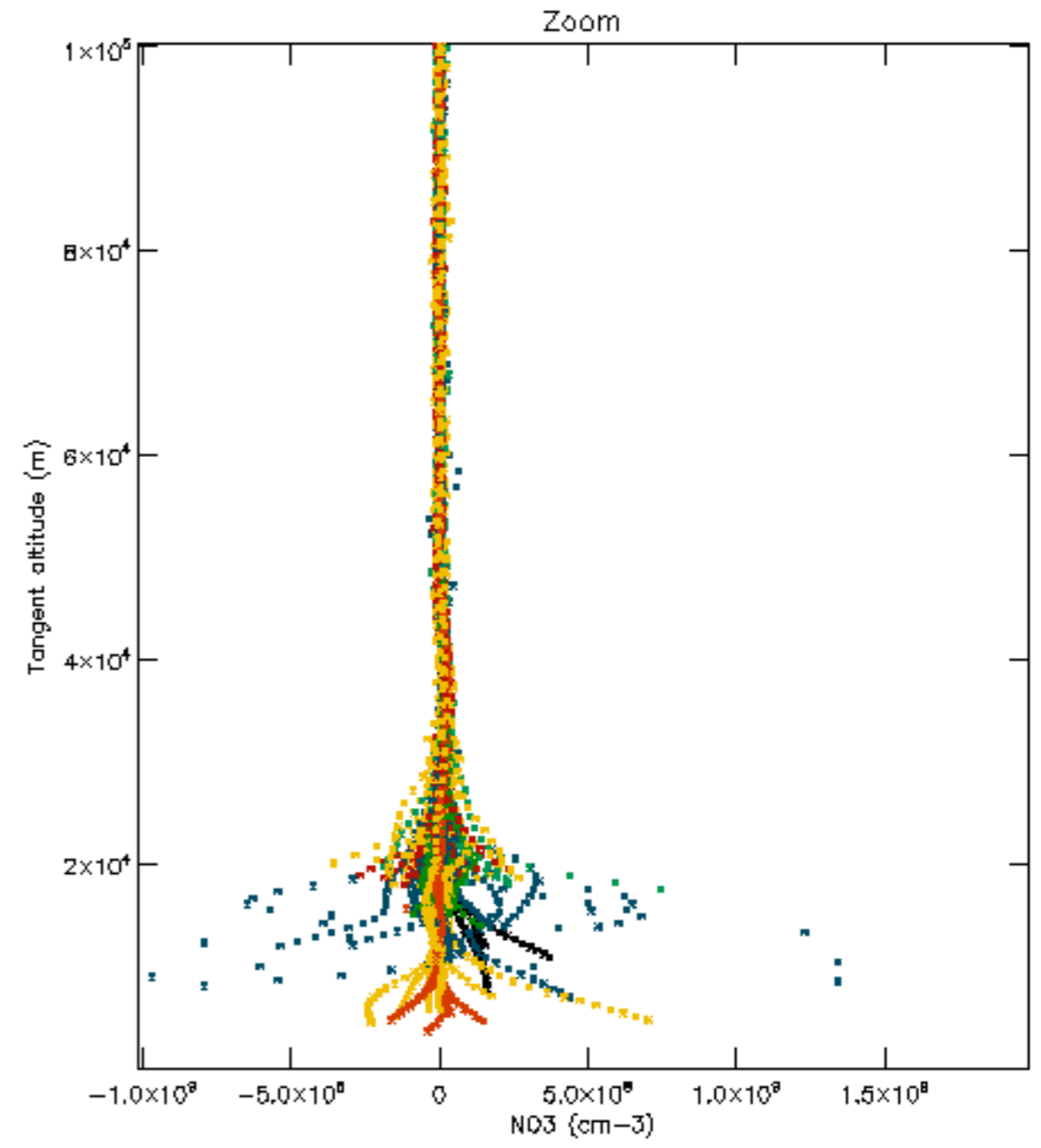
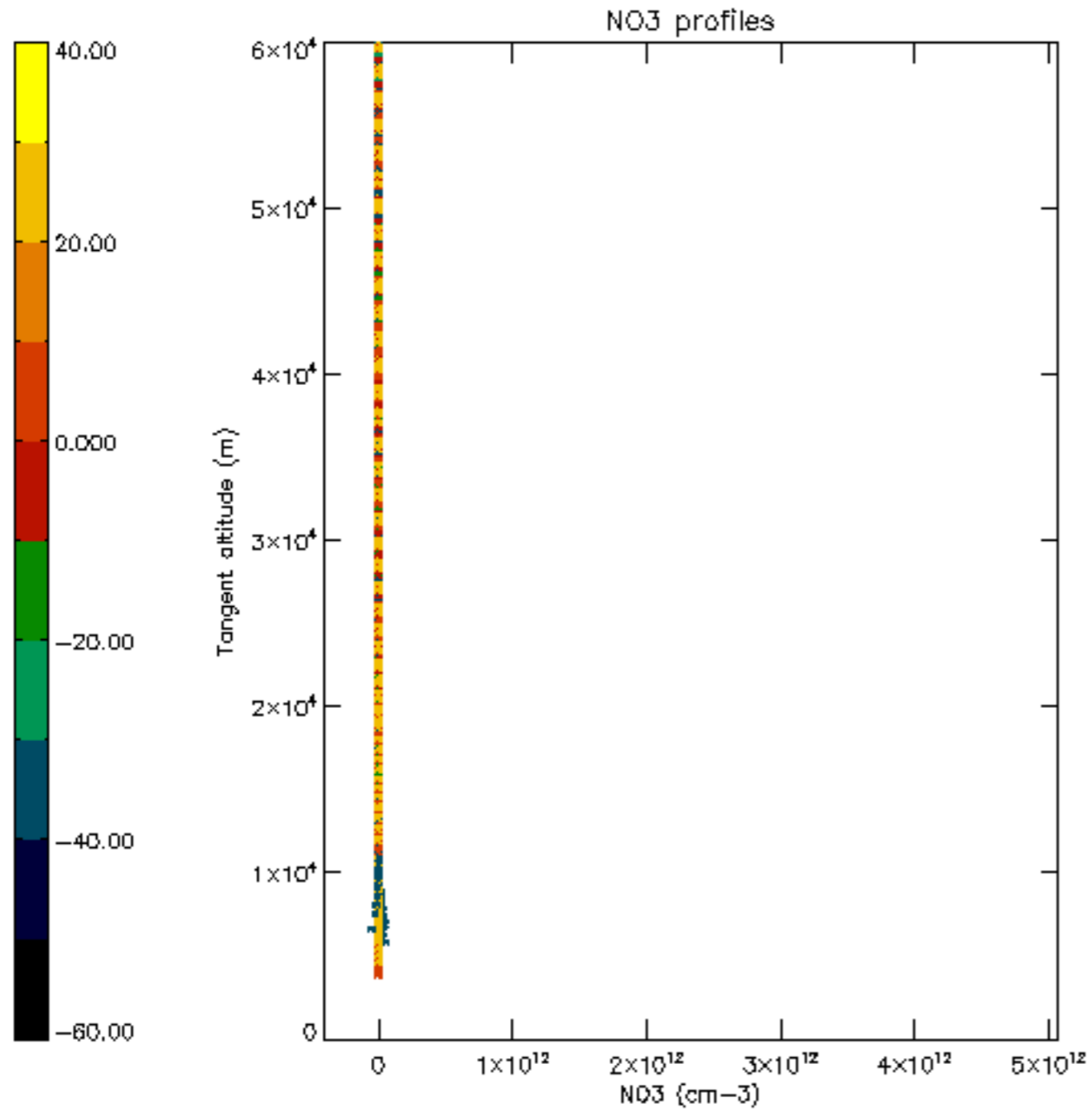


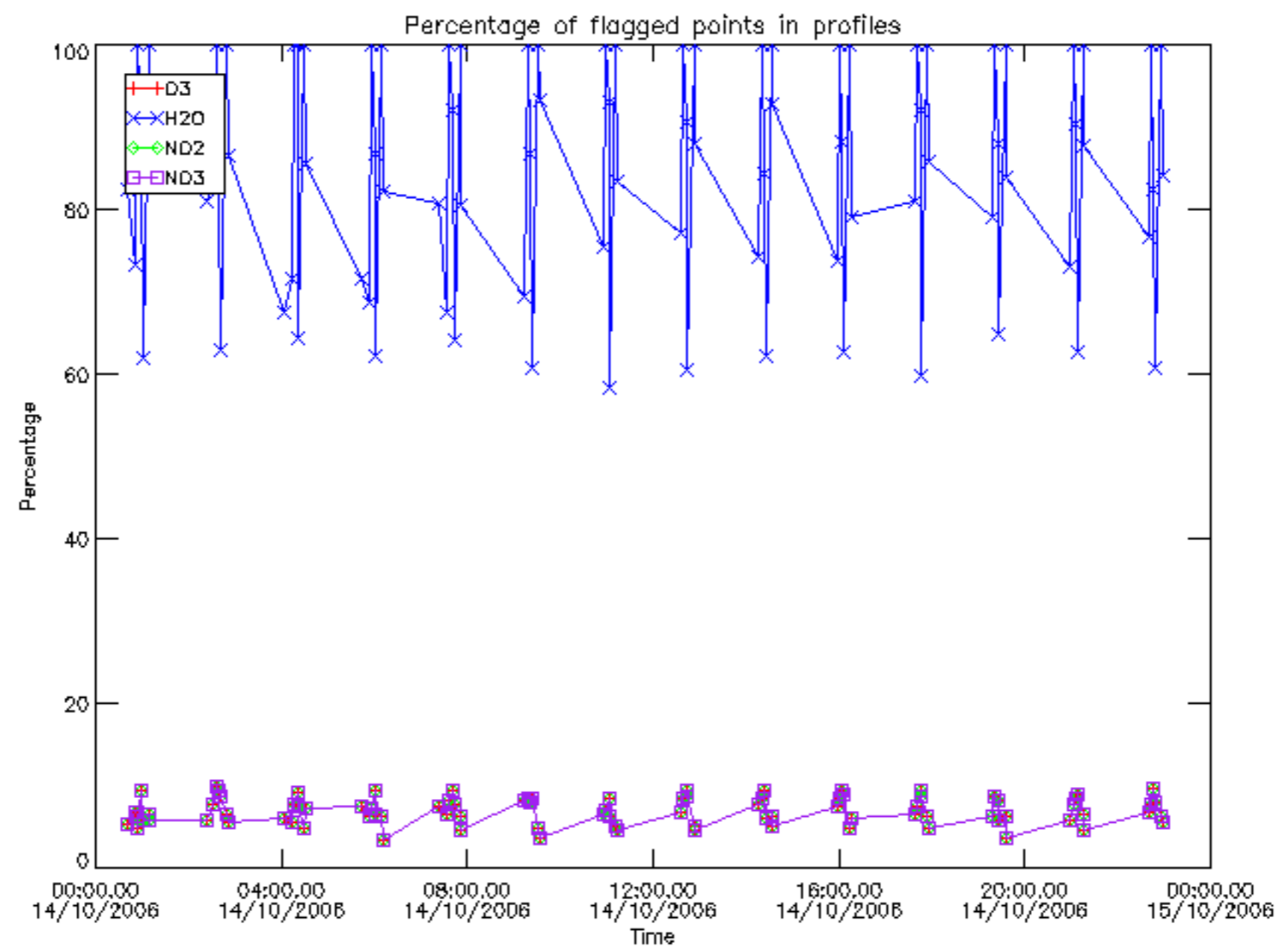




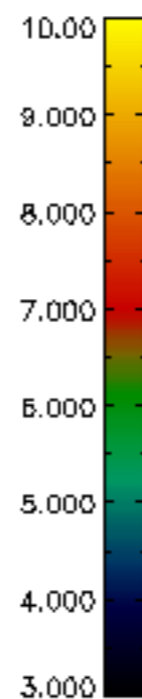
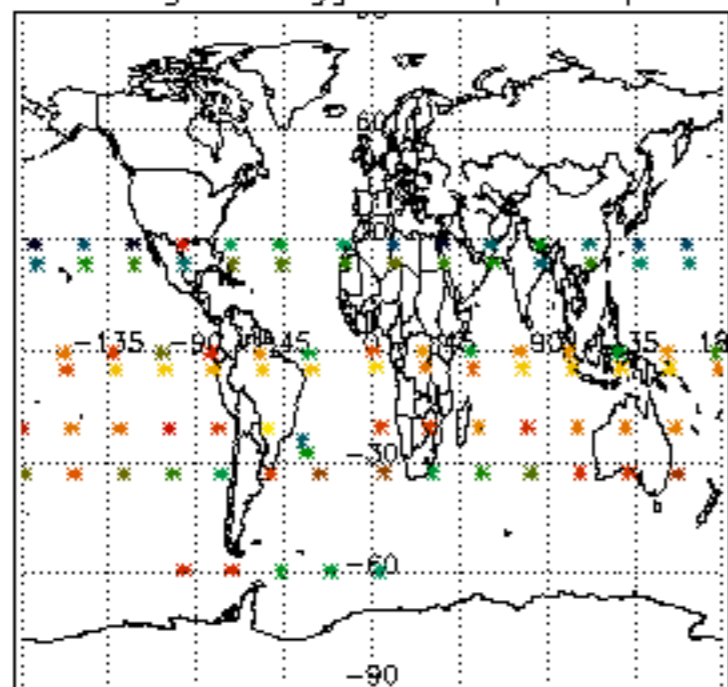




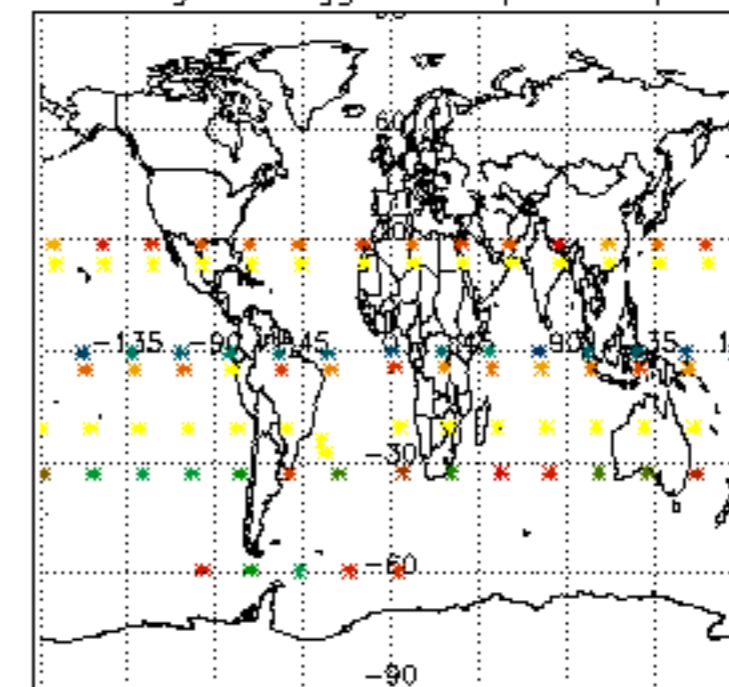




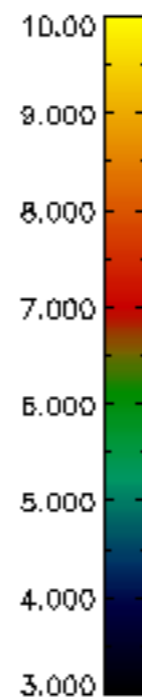
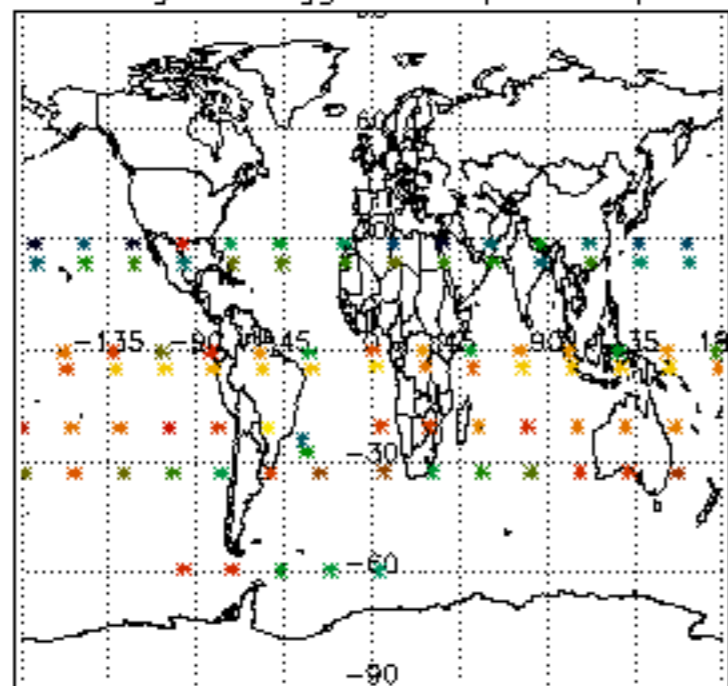
Percentage of flagged data per D3 profile



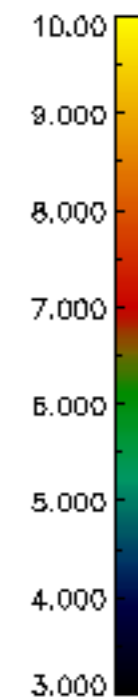
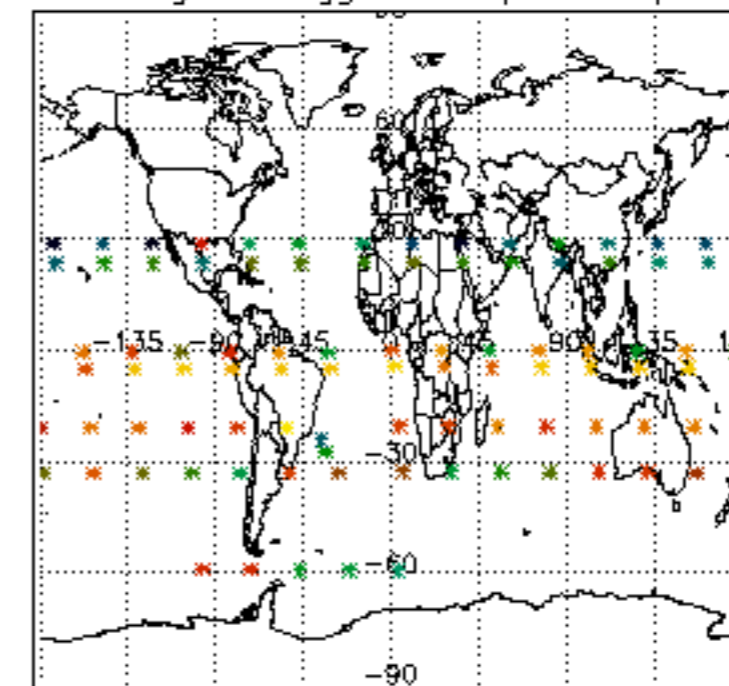
Percentage of flagged data per H2O profile

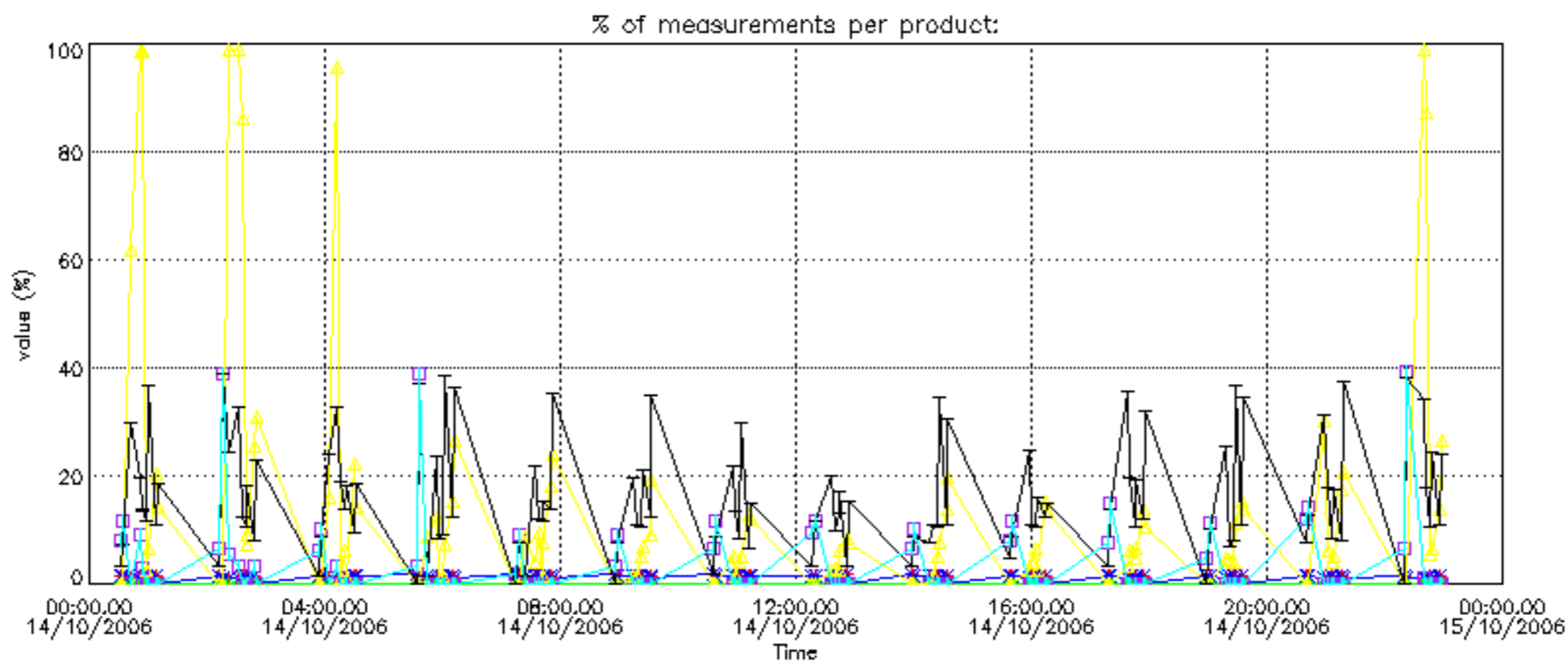


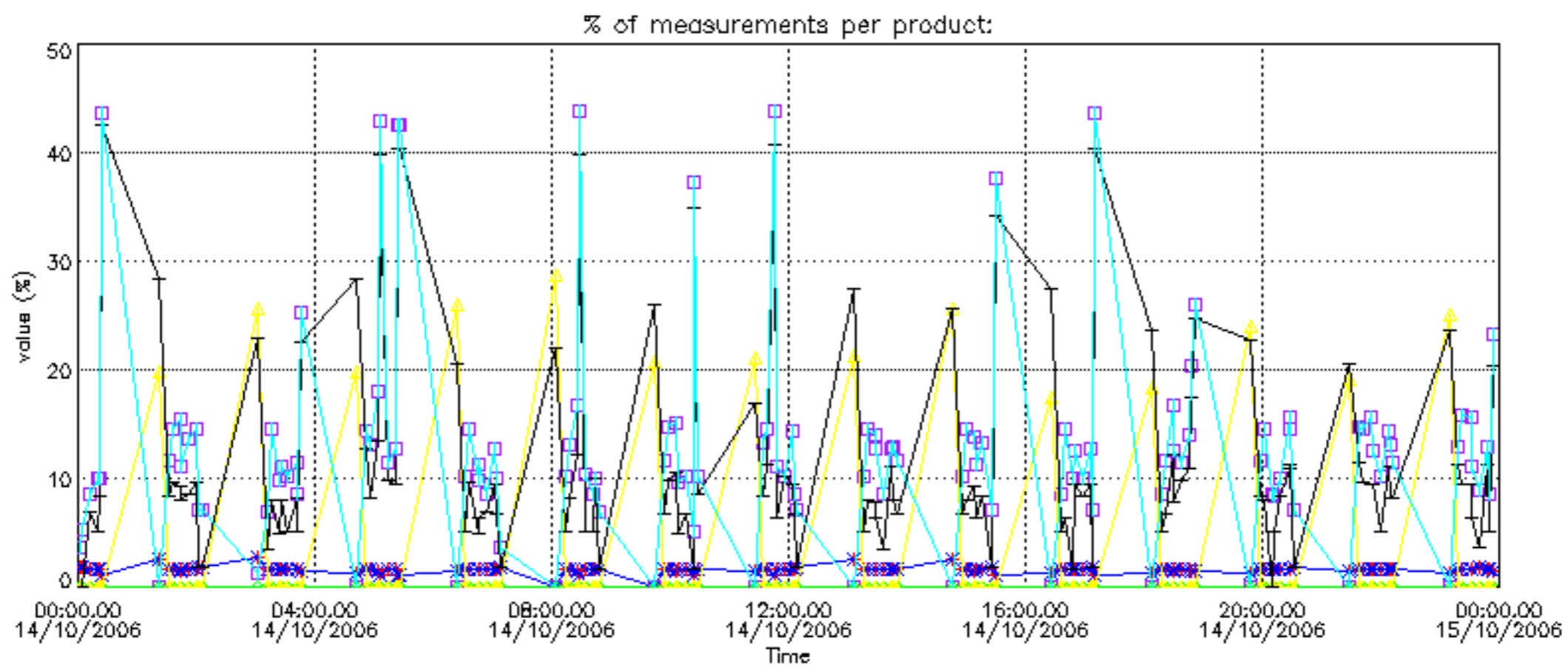
Percentage of flagged data per NO2 profile



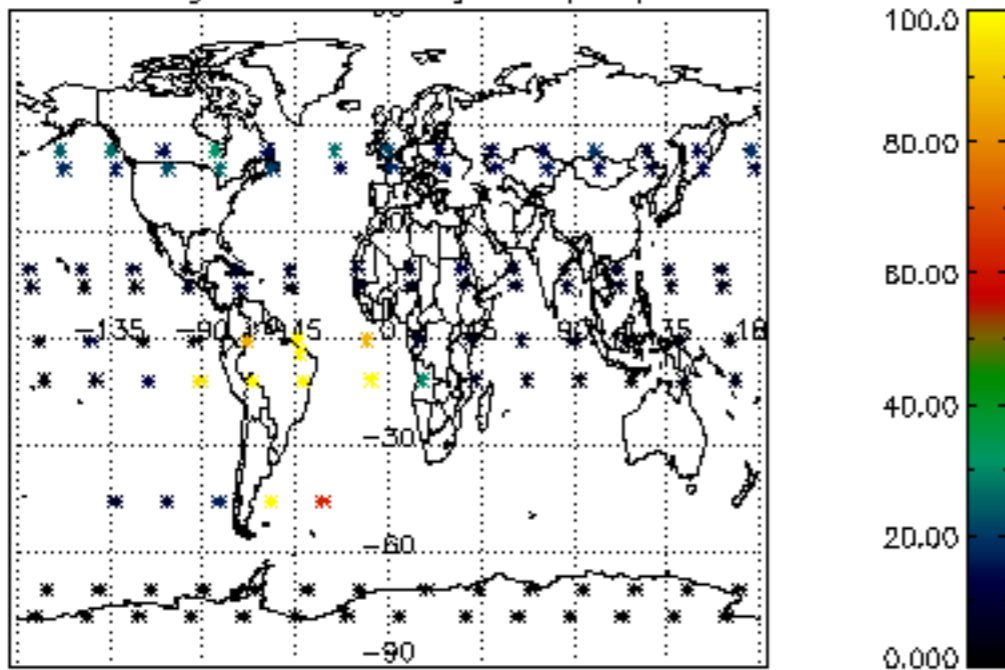
Percentage of flagged data per NO3 profile



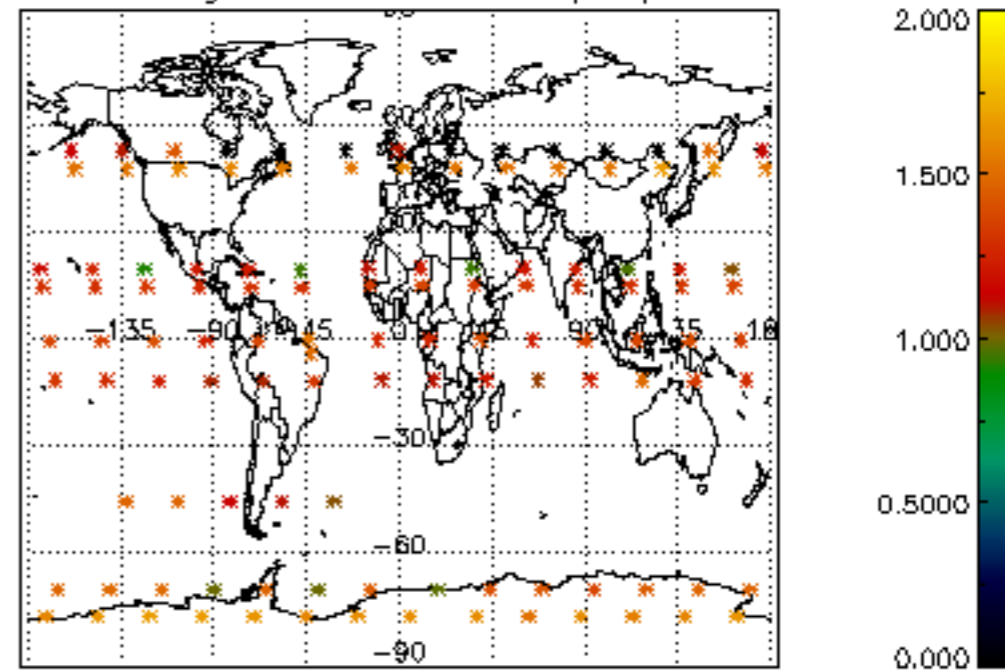




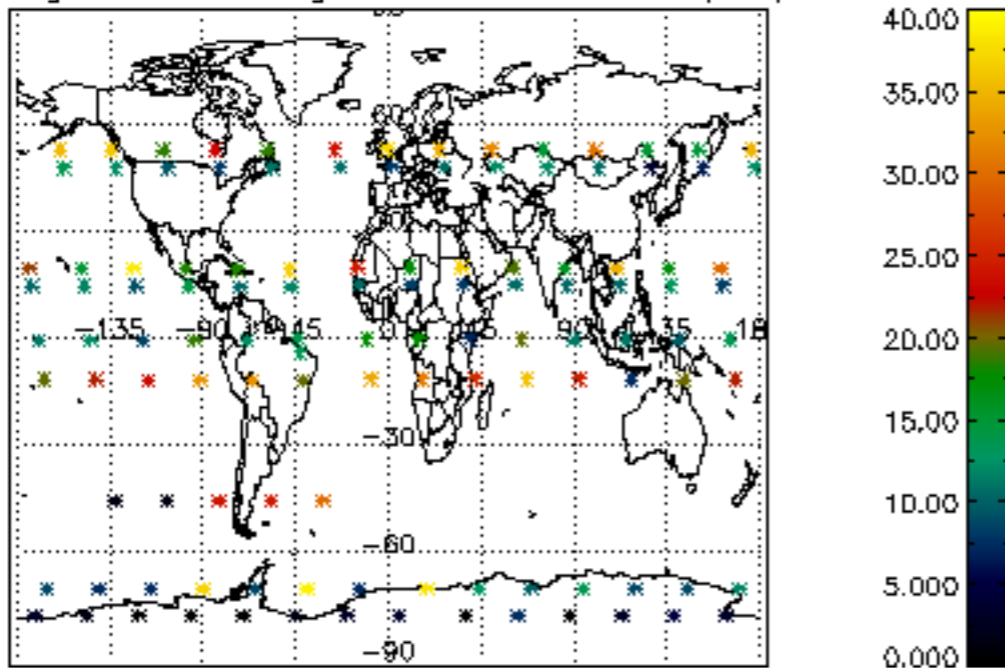
Percentage of cosmic ray hits per profile



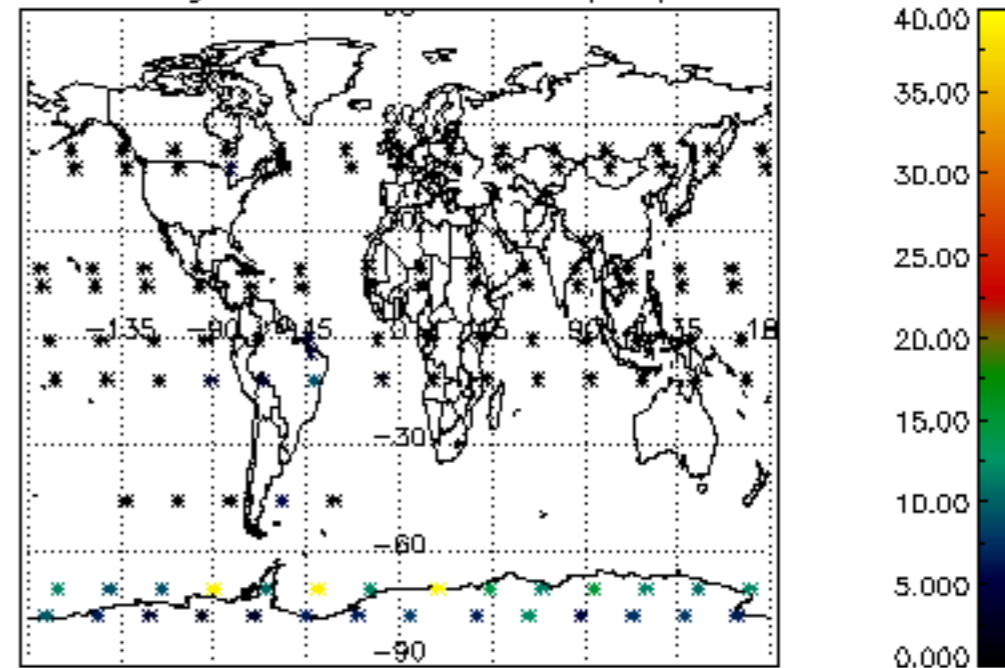
Percentage of datation errors per profile



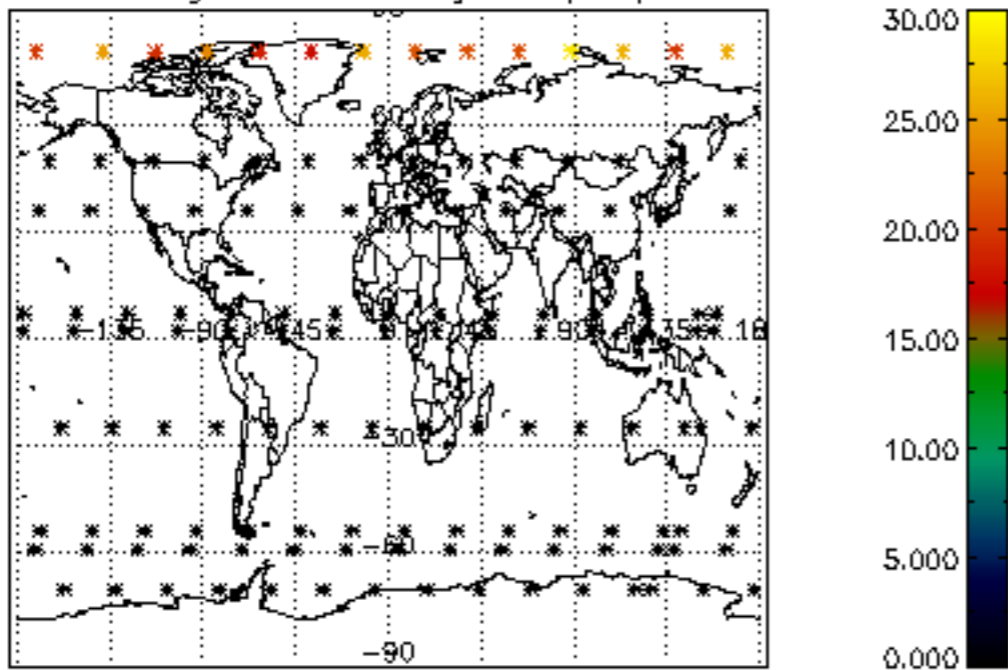
Percentage of star falling outside central band per profile



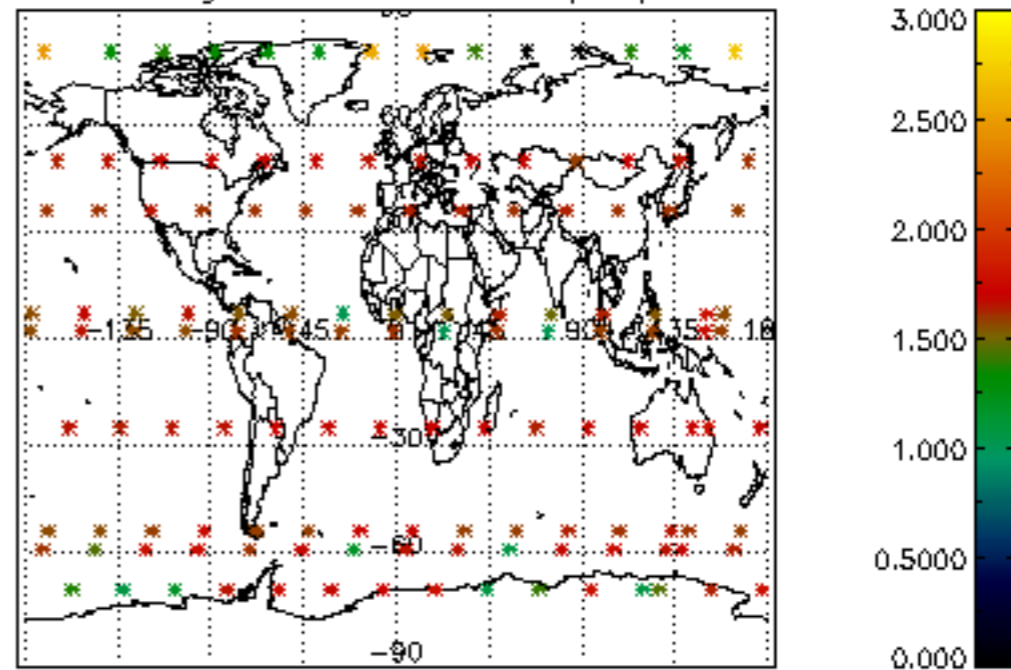
Percentage of saturation errors per profile



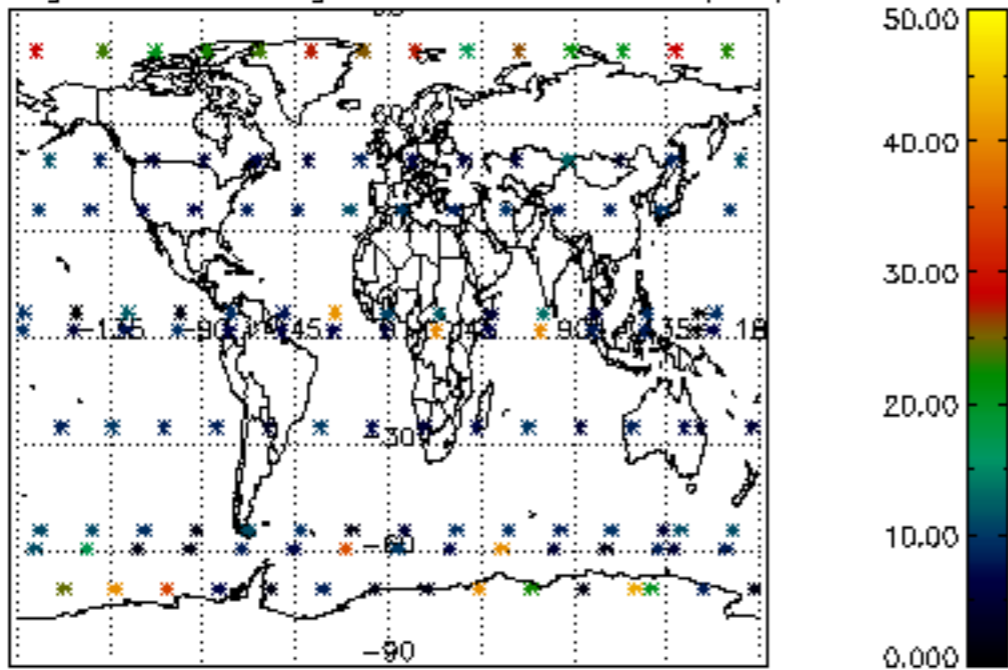
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

