

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 20:54:07
Data source version	GOMOS/6.01
Start time of products	12-10-2008 (12OCT2008 00:00:00)
Stop time of products	13-10-2008 (13OCT2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	294
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

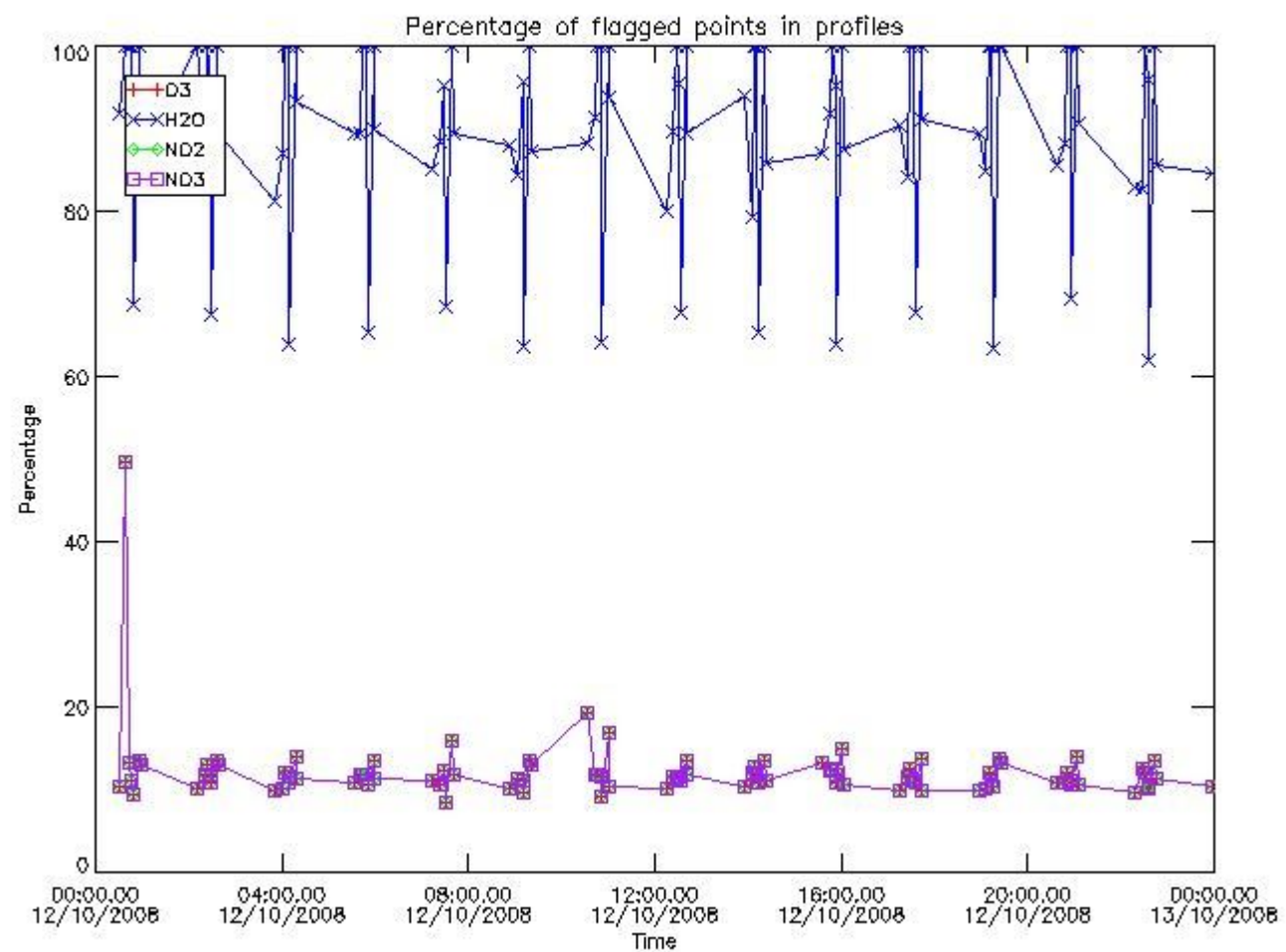
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20081012_000802_000000372072_00474_34596_3438.N1	12-OCT-2008 00:08:02	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	34596	No
2	GOM_NL__2PRFIN20081012_000934_000000352072_00474_34596_3439.N1	12-OCT-2008 00:09:34	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	34596	No
3	GOM_NL__2PRFIN20081012_001255_000000362072_00474_34596_3440.N1	12-OCT-2008 00:12:55	Bright	35.500	174	52Psi UMa	3.0040	4400.0	71	34596	No
4	GOM_NL__2PRFIN20081012_001946_000000482072_00474_34596_3441.N1	12-OCT-2008 00:19:46	Bright	48.000	166	17Eps Leo	2.9800	6000.0	96	34596	No
5	GOM_NL__2PRFIN20081012_002258_000000402072_00474_34596_3442.N1	12-OCT-2008 00:22:58	Bright	39.500	22	32Alp Leo	1.3600	15200.	79	34596	No
6	GOM_NL__2PRFIN20081012_003005_000000492072_00474_34596_3443.N1	12-OCT-2008 00:30:05	Dark	49.000	48	30Alp Hya	1.9770	4100.0	98	34596	No
7	GOM_NL__2PRFIN20081012_003941_000000522072_00474_34596_3444.N1	12-OCT-2008 00:39:41	Dark	52.000	65	Lam Vel	2.2040	4400.0	104	34596	No
8	GOM_NL__2PRFIN20081012_004243_000000422072_00474_34596_3445.N1	12-OCT-2008 00:42:43	Dark	42.000	34	Gam2Vel	1.7930	23000.	84	34596	No
9	GOM_NL__2PRFIN20081012_004654_000000462072_00475_34597_3438.N1	12-OCT-2008 00:46:54	Dark	45.500	161	Tau Pup	2.9310	4500.0	91	34597	No
10	GOM_NL__2PRFIN20081012_004817_000000602072_00475_34597_3439.N1	12-OCT-2008 00:48:17	Dark	59.500	2	Alp Car	-0.73600	7000.0	119	34597	No
11	GOM_NL__2PRFIN20081012_005628_000000382072_00475_34597_3440.N1	12-OCT-2008 00:56:28	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	34597	No
12	GOM_NL__2PRFIN20081012_005755_000000402072_00475_34597_3441.N1	12-OCT-2008 00:57:55	Dark	39.500	9	Alp Eri	0.45300	24000.	79	34597	No
13	GOM_NL__2PRFIN20081012_010018_000000462072_00475_34597_3442.N1	12-OCT-2008 01:00:18	Straylight	45.500	157	The1Eri	2.9060	9300.0	91	34597	No
14	GOM_NL__2PRFIN20081012_010301_000000422072_00475_34597_3443.N1	12-OCT-2008 01:03:01	Straylight	41.500	84	Alp Phe	2.3970	4500.0	83	34597	No
15	GOM_NL__2PRFIN20081012_010940_000000452072_00475_34597_3444.N1	12-OCT-2008 01:09:40	Straylight	45.000	52	16Bet Cet	2.0370	4500.0	90	34597	No
16	GOM_NL__2PRFIN20081012_011926_000000362072_00475_34597_3445.N1	12-OCT-2008 01:19:26	Bright	36.000	140	88Gam Peg	2.8340	26000.	72	34597	No
17	GOM_NL__2PRFIN20081012_012326_000000372072_00475_34597_3446.N1	12-OCT-2008 01:23:26	Bright	36.500	58	21Alp And	2.0730	11000.	73	34597	No
18	GOM_NL__2PRFIN20081012_012612_000000362072_00475_34597_3447.N1	12-OCT-2008 01:26:12	Bright	36.000	53	43Bet And	2.0480	3300.0	72	34597	No
19	GOM_NL__2PRFIN20081012_013136_000000552072_00475_34597_3448.N1	12-OCT-2008 01:31:36	Bright	55.000	68	18Alp Cas	2.2250	4500.0	110	34597	No
20	GOM_NL__2PRFIN20081012_013259_000000382072_00475_34597_3449.N1	12-OCT-2008 01:32:59	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	34597	No
21	GOM_NL__2PRFIN20081012_014026_000000342072_00475_34597_3450.N1	12-OCT-2008 01:40:26	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	34597	No
22	GOM_NL__2PRFIN20081012_014838_000000372072_00475_34597_3451.N1	12-OCT-2008 01:48:38	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	34597	No
23	GOM_NL__2PRFIN20081012_015010_000000362072_00475_34597_3452.N1	12-OCT-2008 01:50:10	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	34597	No
24	GOM_NL__2PRFIN20081012_015331_000000522072_00475_34597_3453.N1	12-OCT-2008 01:53:31	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	34597	No
25	GOM_NL__2PRFIN20081012_020022_000000402072_00475_34597_3454.N1	12-OCT-2008 02:00:22	Bright	40.000	166	17Eps Leo	2.9800	6000.0	80	34597	No
26	GOM_NL__2PRFIN20081012_020334_000000372072_00475_34597_3455.N1	12-OCT-2008 02:03:34	Bright	37.000	22	32Alp Leo	1.3600	15200.	74	34597	No
27	GOM_NL__2PRFIN20081012_021041_000000502072_00475_34597_3456.N1	12-OCT-2008 02:10:41	Dark	50.000	48	30Alp Hya	1.9770	4100.0	100	34597	No
28	GOM_NL__2PRFIN20081012_022017_000000442072_00475_34597_3457.N1	12-OCT-2008 02:20:17	Dark	43.500	65	Lam Vel	2.2040	4400.0	87	34597	No
29	GOM_NL__2PRFIN20081012_022320_000000432072_00475_34597_3458.N1	12-OCT-2008 02:23:20	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	34597	No
30	GOM_NL__2PRFIN20081012_022731_000000432072_00476_34598_3459.N1	12-OCT-2008 02:27:31	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	34598	No
31	GOM_NL__2PRFIN20081012_022854_000000472072_00476_34598_3460.N1	12-OCT-2008 02:28:54	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	34598	No
32	GOM_NL__2PRFIN20081012_023705_000000382072_00476_34598_3461.N1	12-OCT-2008 02:37:05	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	34598	No
33	GOM_NL__2PRFIN20081012_023832_000000432072_00476_34598_3462.N1	12-OCT-2008 02:38:32	Dark	43.000	9	Alp Eri	0.45300	24000.	86	34598	No
34	GOM_NL__2PRFIN20081012_024055_000000462072_00476_34598_3463.N1	12-OCT-2008 02:40:55	Straylight	45.500	157	The1Eri	2.9060	9300.0	91	34598	No
35	GOM_NL__2PRFIN20081012_024337_000000402072_00476_34598_3464.N1	12-OCT-2008 02:43:37	Straylight	39.500	84	Alp Phe	2.3970	4500.0	79	34598	No
36	GOM_NL__2PRFIN20081012_025016_000000442072_00476_34598_3465.N1	12-OCT-2008 02:50:16	Straylight	43.500	52	16Bet Cet	2.0370	4500.0	87	34598	No
37	GOM_NL__2PRFIN20081012_030002_000000372072_00476_34598_3466.N1	12-OCT-2008 03:00:02	Bright	36.500	140	88Gam Peg	2.8340	26000.	73	34598	No
38	GOM_NL__2PRFIN20081012_030401_000000382072_00476_34598_3467.N1	12-OCT-2008 03:04:01	Bright	37.500	58	21Alp And	2.0730	11000.	75	34598	No
39	GOM_NL__2PRFIN20081012_030648_000000412072_00476_34598_3468.N1	12-OCT-2008 03:06:48	Bright	41.000	53	43Bet And	2.0480	3300.0	82	34598	No
40	GOM_NL__2PRFIN20081012_031212_000000372072_00476_34598_3469.N1	12-OCT-2008 03:12:12	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	34598	No
41	GOM_NL__2PRFIN20081012_031335_000000382072_00476_34598_3470.N1	12-OCT-2008 03:13:35	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	34598	No
42	GOM_NL__2PRFIN20081012_032102_000000332072_00476_34598_3471.N1	12-OCT-2008 03:21:02	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	34598	No

279	GOM_NL__2PRFIN20081012_224420_000000382072_00488_34610_3636.N1	12-OCT-2008 22:44:20	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	34610	No
280	GOM_NL__2PRFIN20081012_224546_000000492072_00488_34610_3637.N1	12-OCT-2008 22:45:46	Dark	49.000	9	Alp Eri	0.45300	24000.	98	34610	No
281	GOM_NL__2PRFIN20081012_224812_000000452072_00488_34610_3638.N1	12-OCT-2008 22:48:12	Straylight	45.000	157	The1Eri	2.9060	9300.0	90	34610	No
282	GOM_NL__2PRFIN20081012_225729_000000452072_00488_34610_3639.N1	12-OCT-2008 22:57:29	Straylight	44.500	52	16Bet Cet	2.0370	4500.0	89	34610	No
283	GOM_NL__2PRFIN20081012_230713_000000352072_00488_34610_3640.N1	12-OCT-2008 23:07:13	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	34610	No
284	GOM_NL__2PRFIN20081012_231112_000000372072_00488_34610_3641.N1	12-OCT-2008 23:11:12	Bright	37.000	58	21Alp And	2.0730	11000.	74	34610	No
285	GOM_NL__2PRFIN20081012_231355_000000432072_00488_34610_3642.N1	12-OCT-2008 23:13:55	Bright	42.500	53	43Bet And	2.0480	3300.0	85	34610	No
286	GOM_NL__2PRFIN20081012_231920_000000382072_00488_34610_3643.N1	12-OCT-2008 23:19:20	Bright	38.000	68	18Alp Cas	2.2250	4500.0	76	34610	No
287	GOM_NL__2PRFIN20081012_232043_000000382072_00488_34610_3644.N1	12-OCT-2008 23:20:43	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	34610	No
288	GOM_NL__2PRFIN20081012_232813_000000342072_00488_34610_3645.N1	12-OCT-2008 23:28:13	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	34610	No
289	GOM_NL__2PRFIN20081012_233625_000000382072_00488_34610_3646.N1	12-OCT-2008 23:36:25	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	34610	No
290	GOM_NL__2PRFIN20081012_233758_000000522072_00488_34610_3647.N1	12-OCT-2008 23:37:58	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	34610	No
291	GOM_NL__2PRFIN20081012_234119_000000352072_00488_34610_3648.N1	12-OCT-2008 23:41:19	Bright	34.500	174	52Psi UMa	3.0040	4400.0	69	34610	No
292	GOM_NL__2PRFIN20081012_234812_000000442072_00488_34610_3649.N1	12-OCT-2008 23:48:12	Bright	43.500	166	17Eps Leo	2.9800	6000.0	87	34610	No
293	GOM_NL__2PRFIN20081012_235125_000000552072_00488_34610_3650.N1	12-OCT-2008 23:51:25	Bright	54.500	22	32Alp Leo	1.3600	15200.	109	34610	No
294	GOM_NL__2PRFIN20081012_235836_000000492072_00488_34610_3651.N1	12-OCT-2008 23:58:36	Dark	48.500	48	30Alp Hya	1.9770	4100.0	97	34610	No

3. Quality information per product

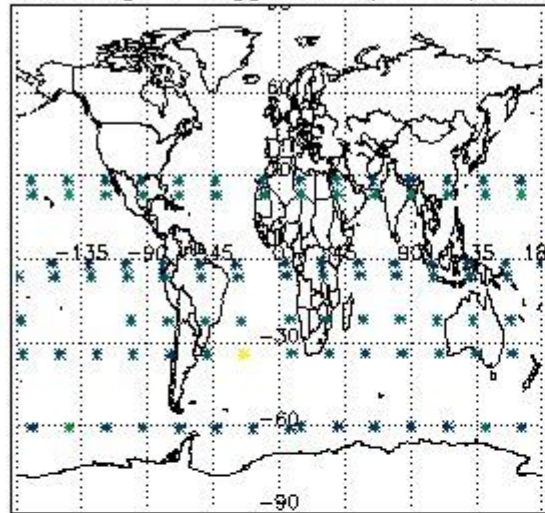
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

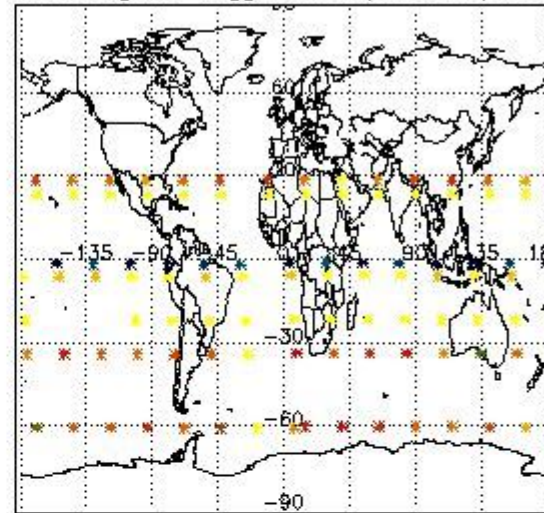


3.2 Plot quality information per product (world map)

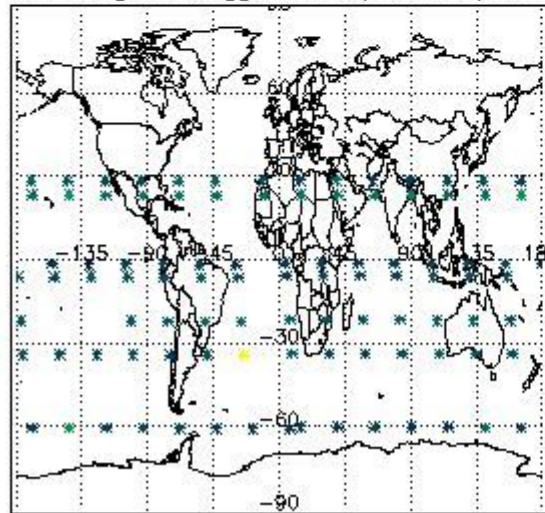
Percentage of flagged data per O3 profile



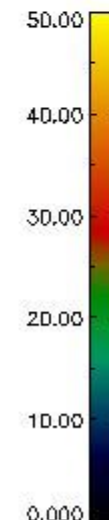
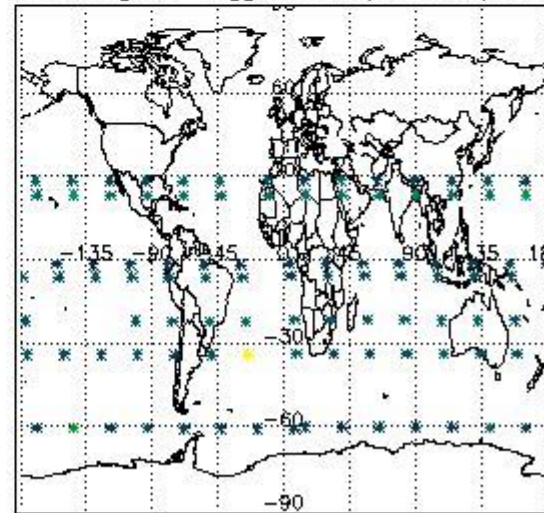
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

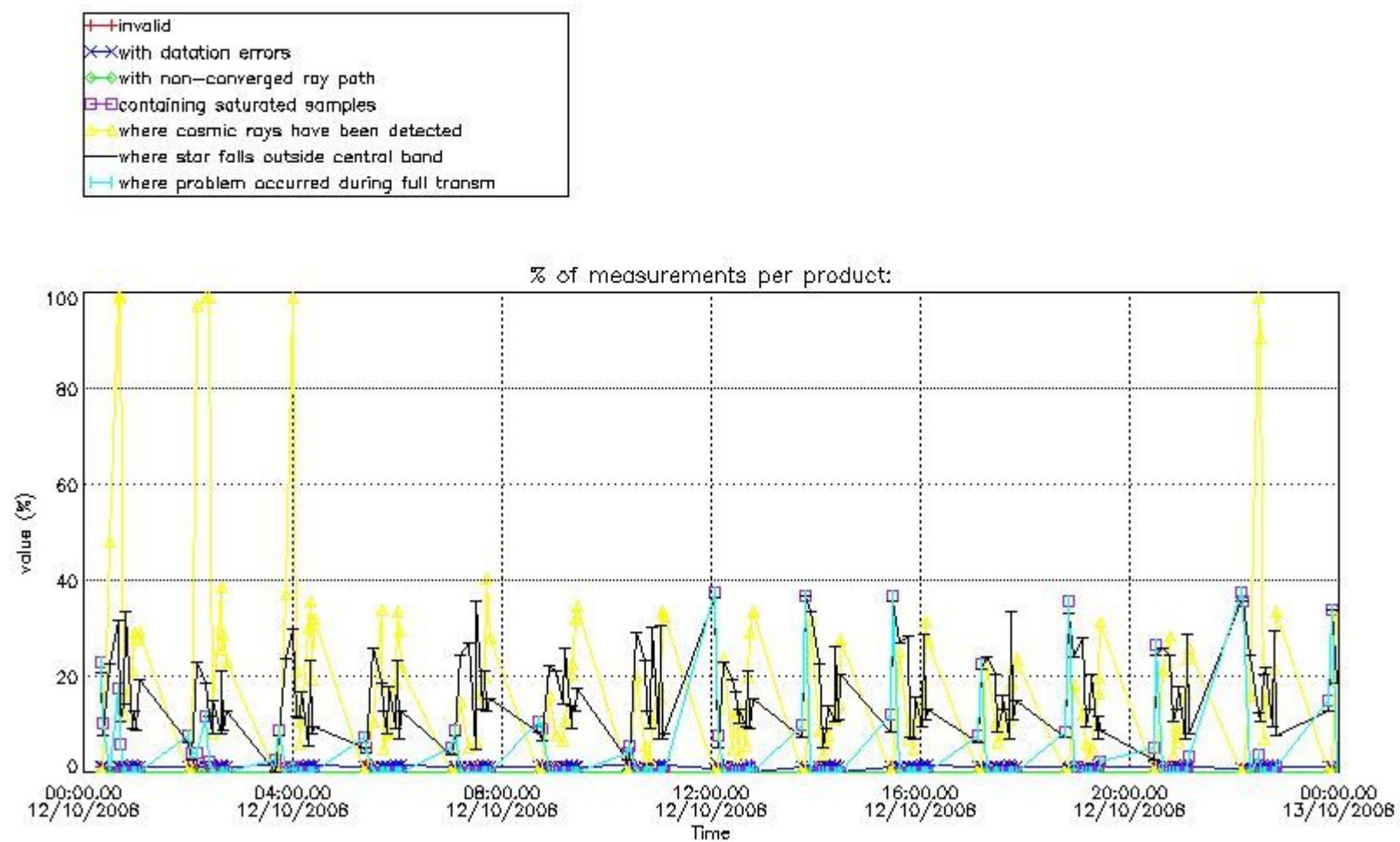


4. Level 1 quality information per product

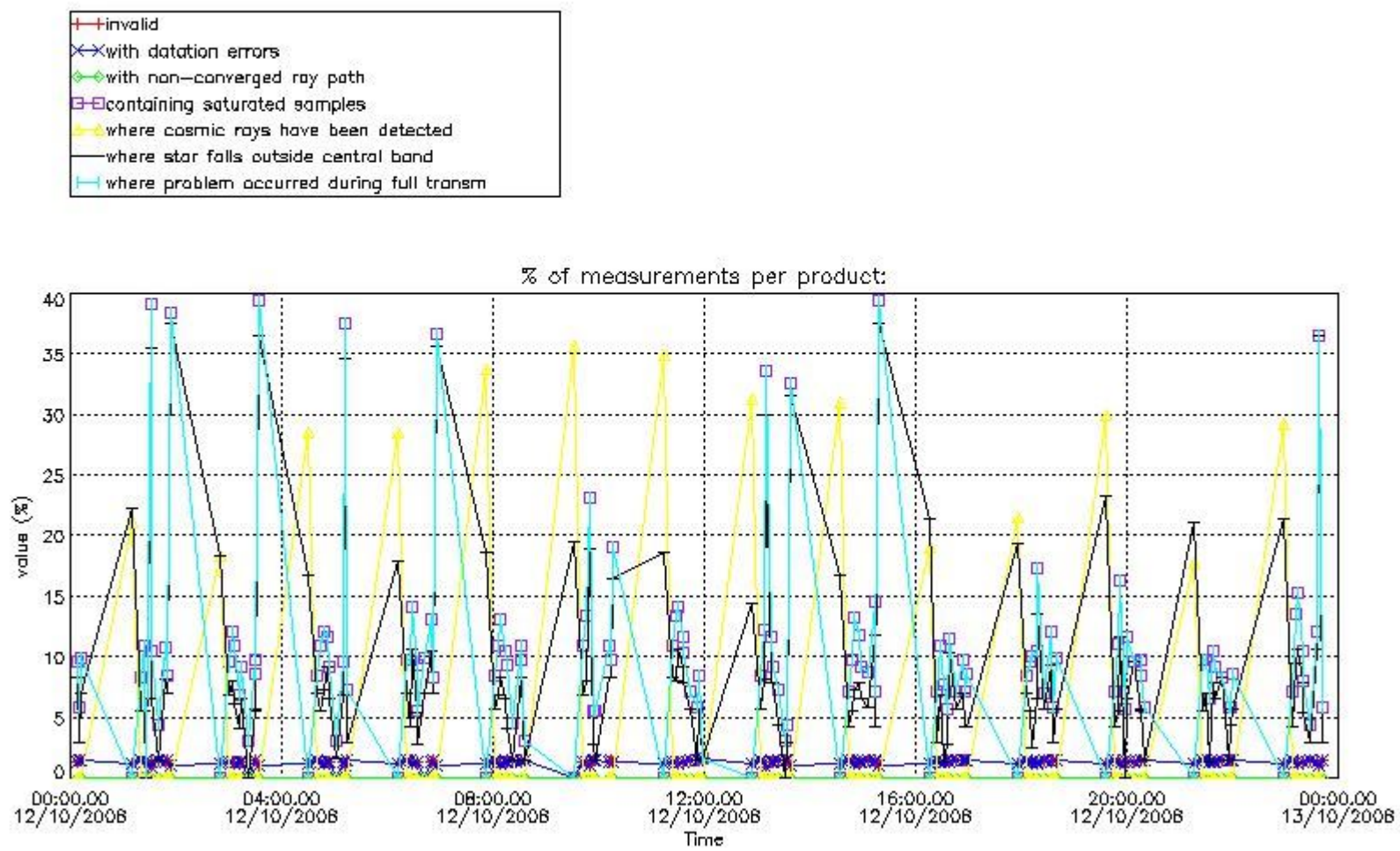
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

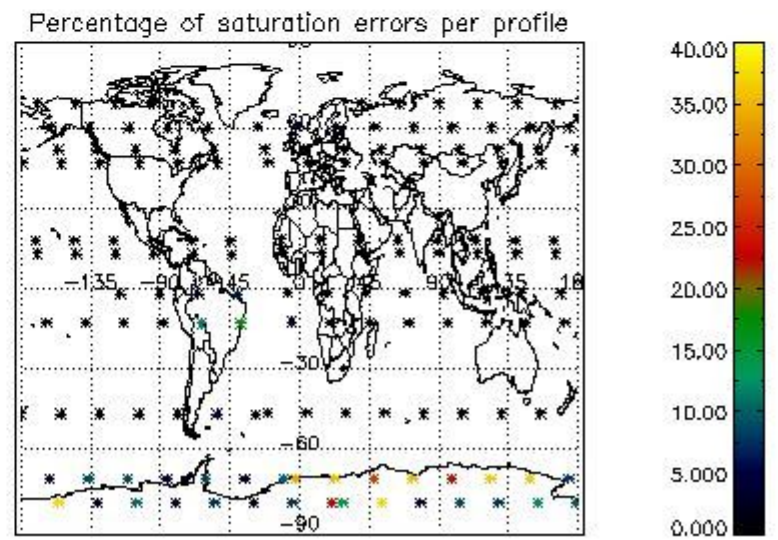
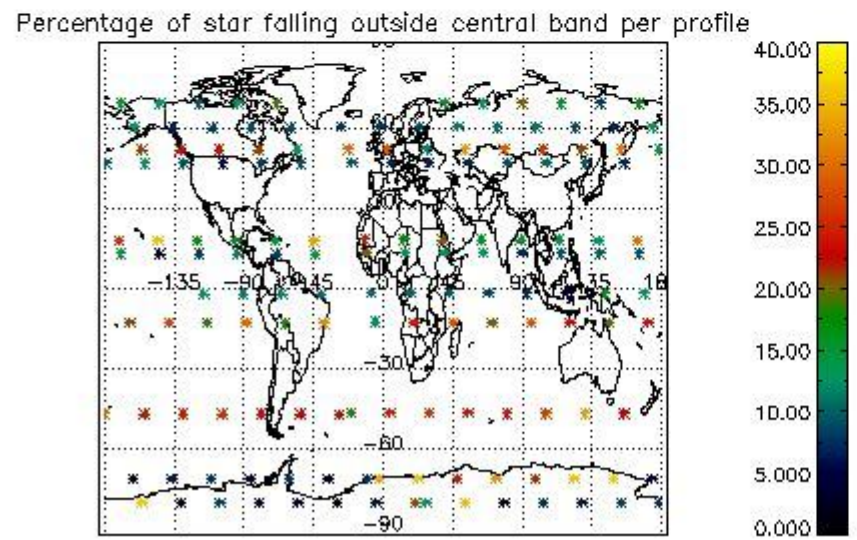
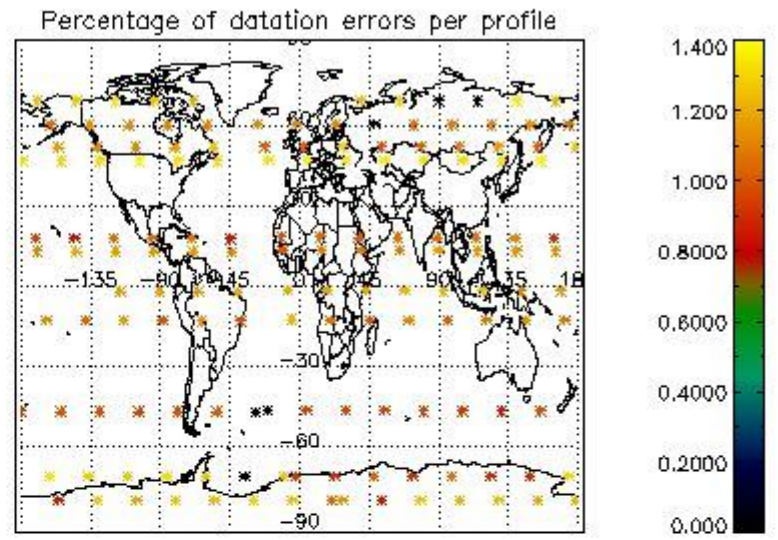
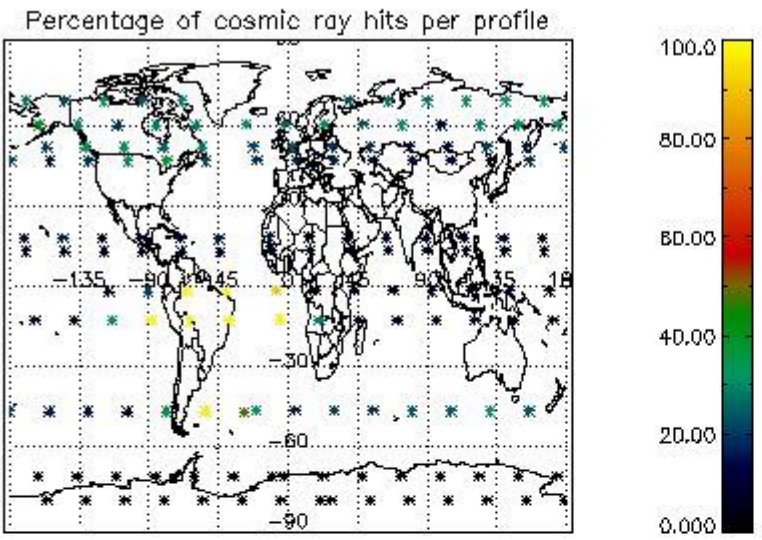


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

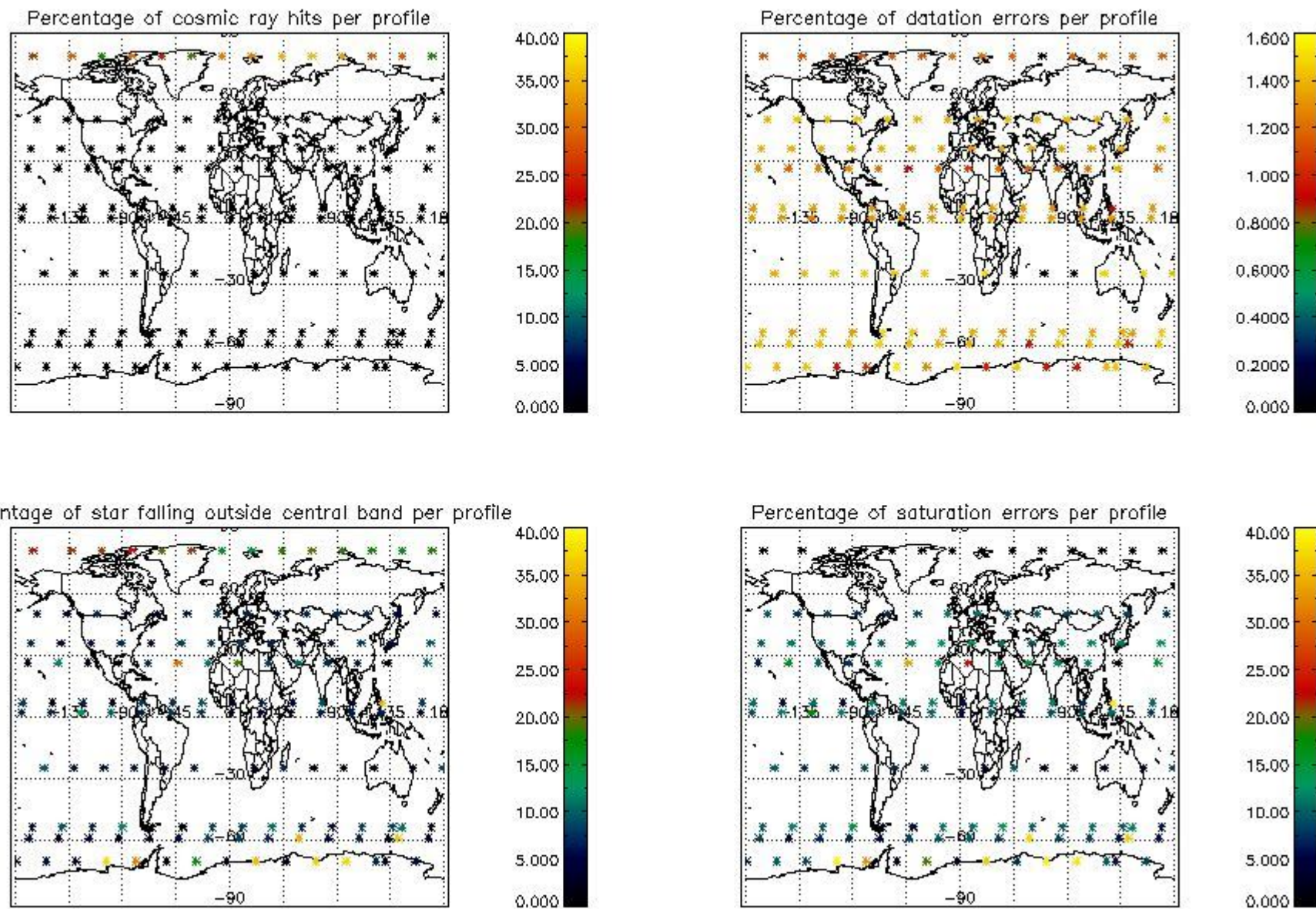


4.2 Plot quality information per product coming from level 1b processing (world map)

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

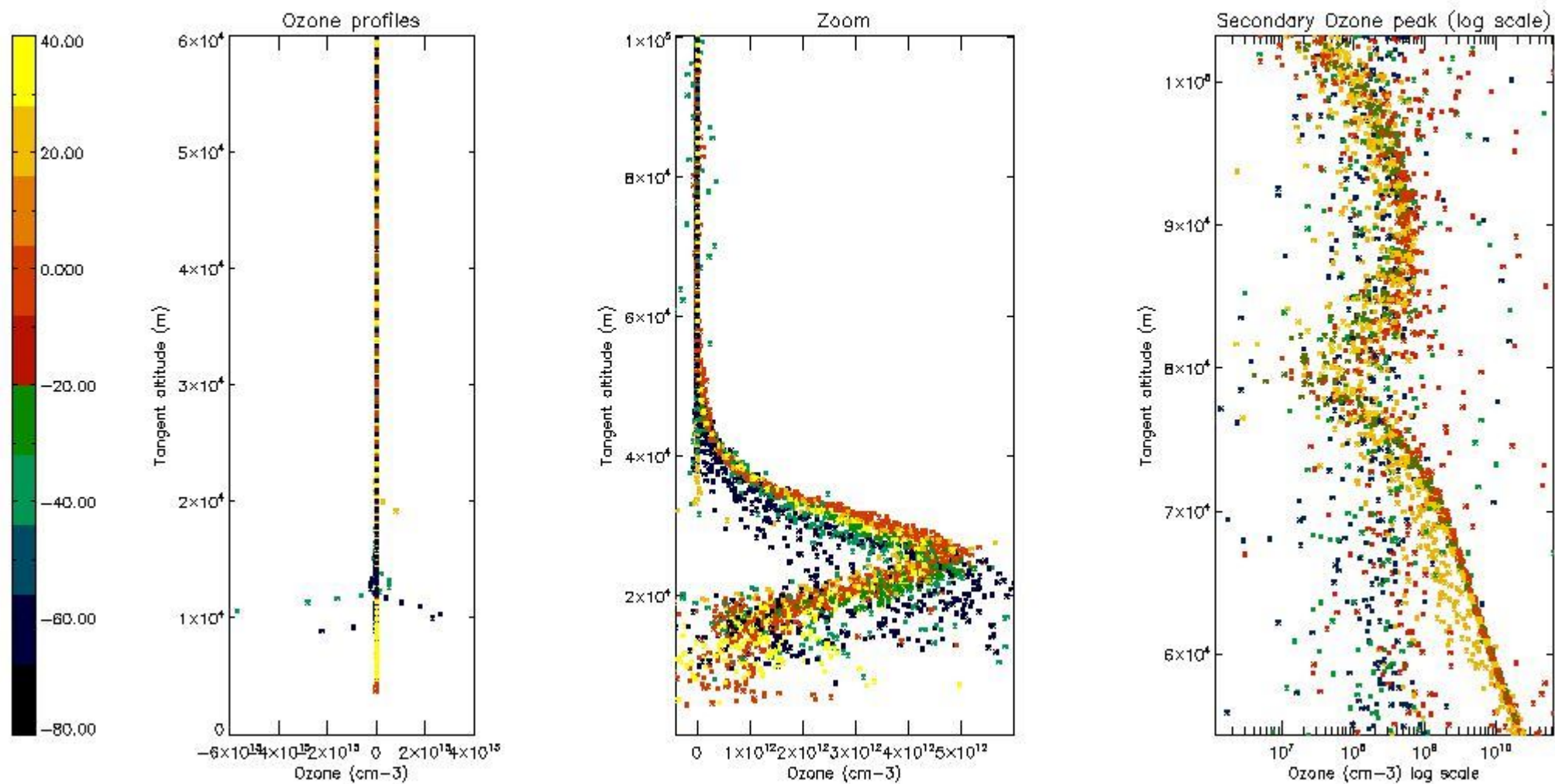
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	37
STD < 20	17

STD < 10	12
STD < 5	9

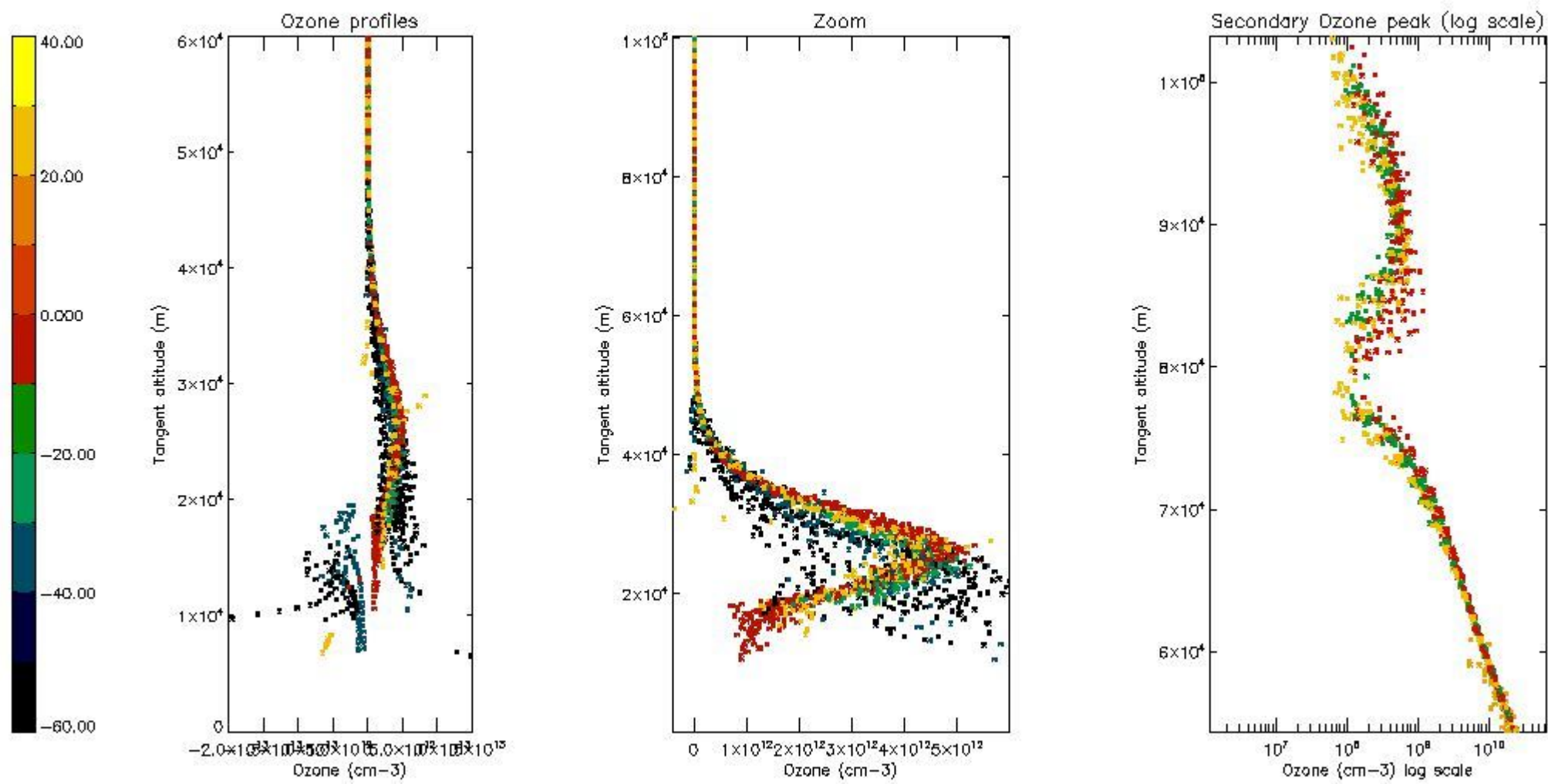
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



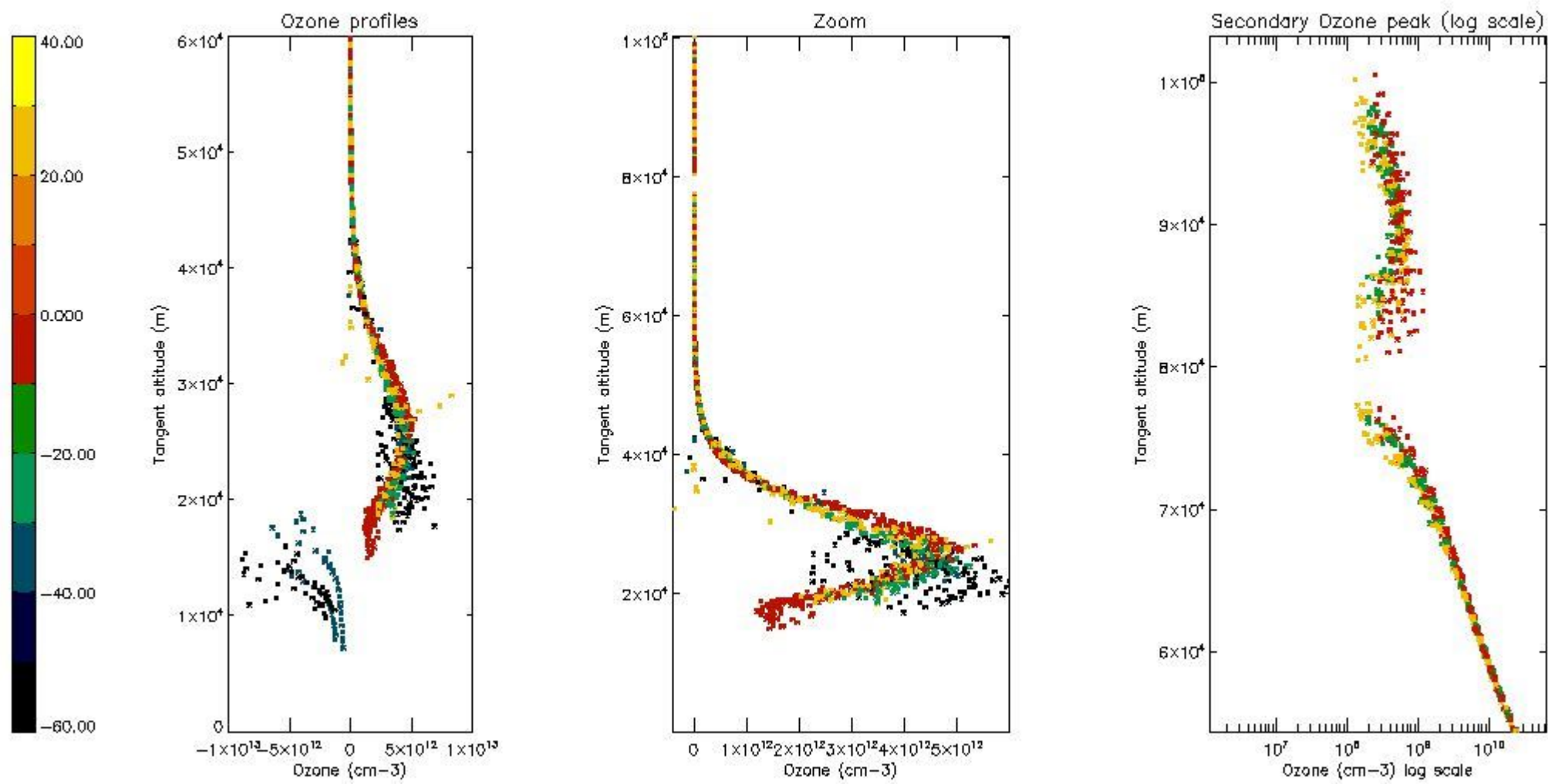
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



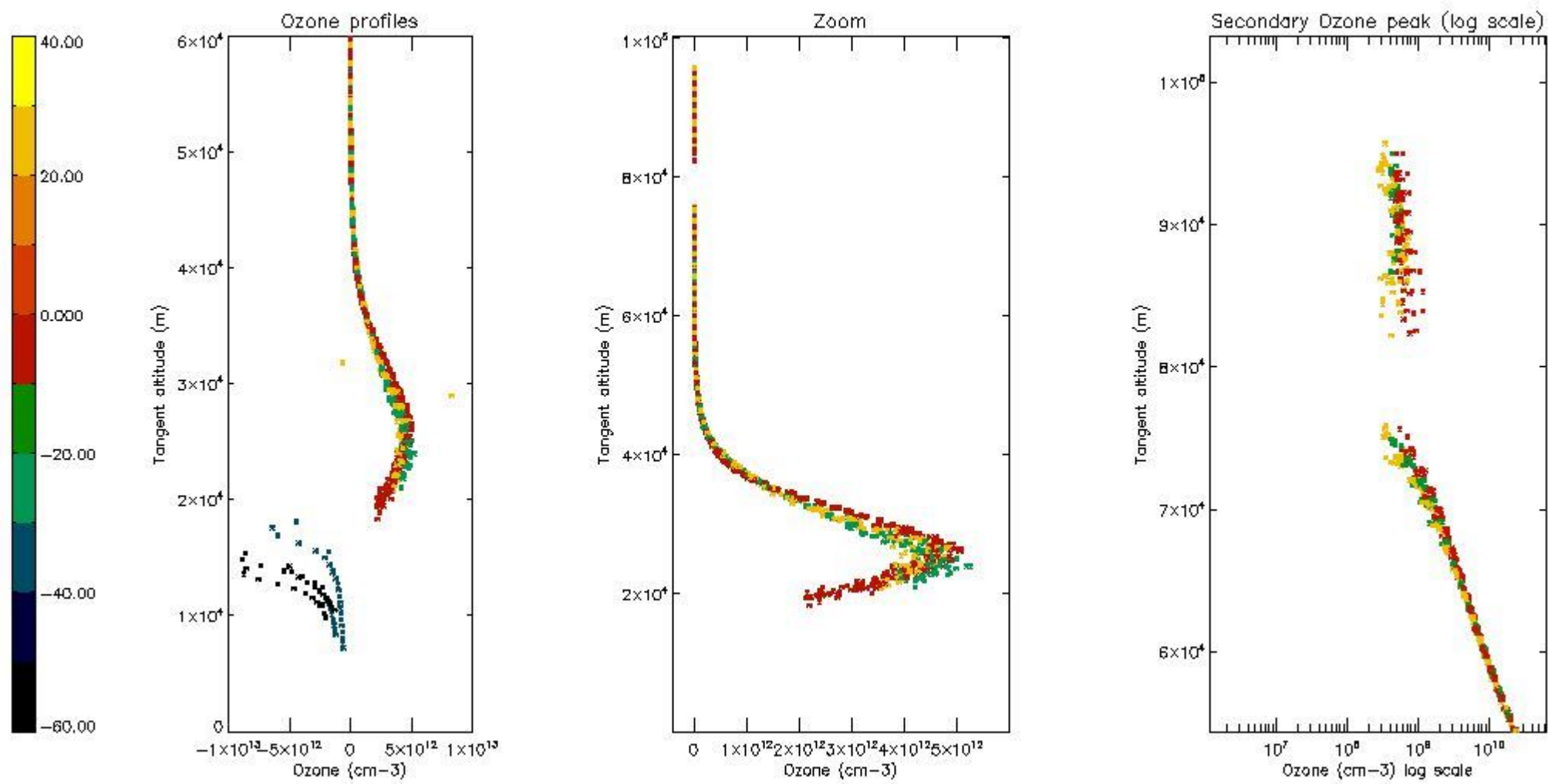
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



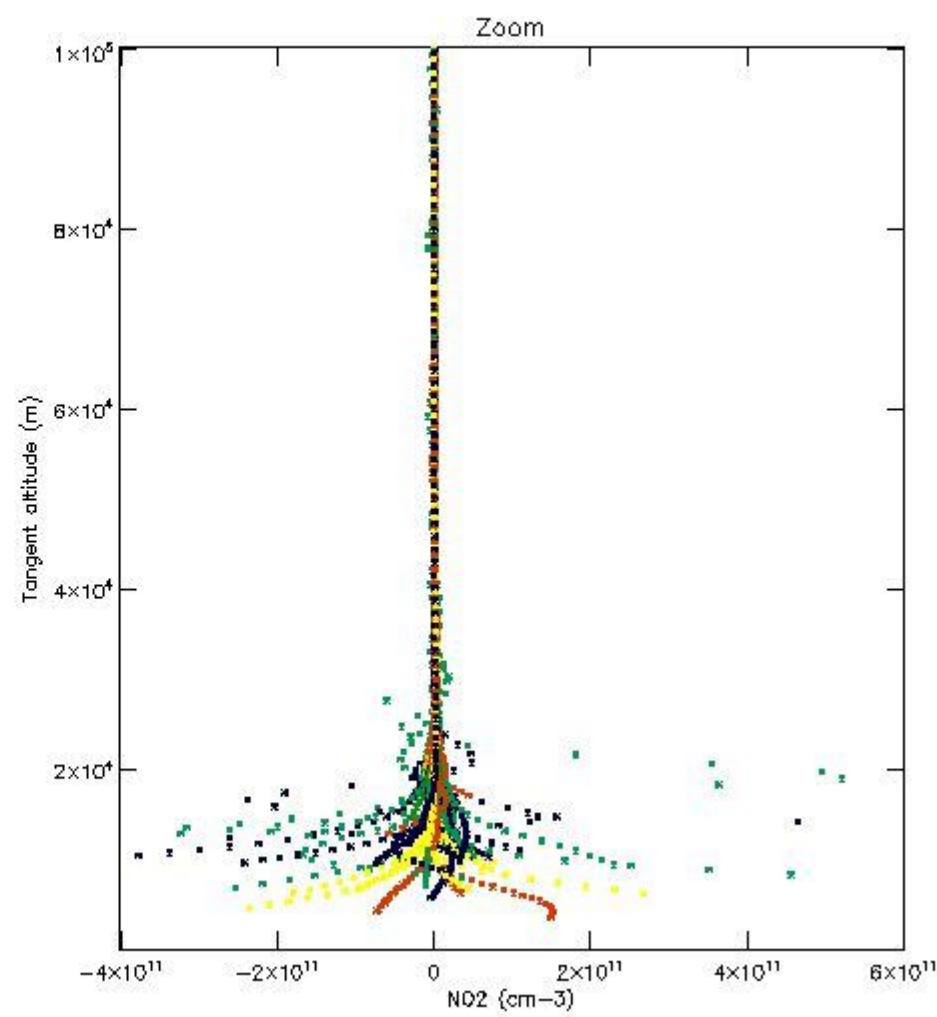
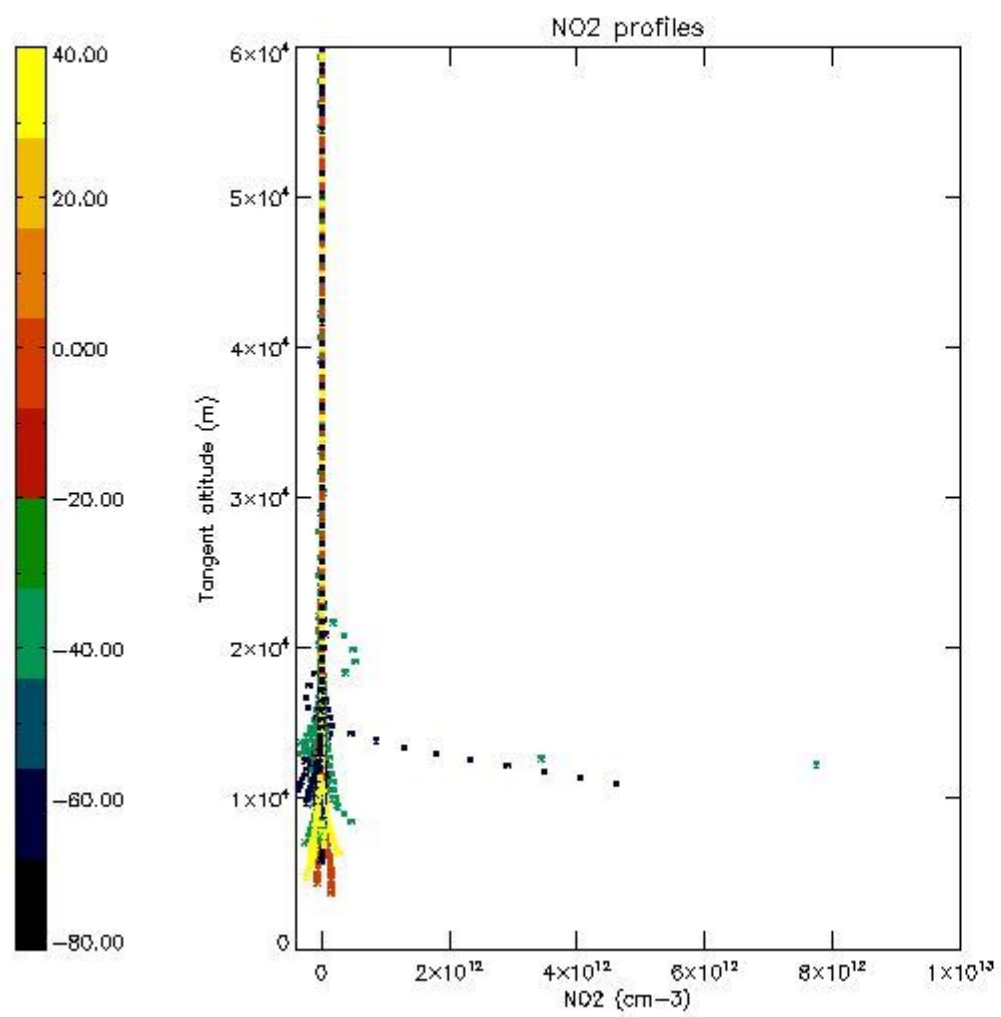
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



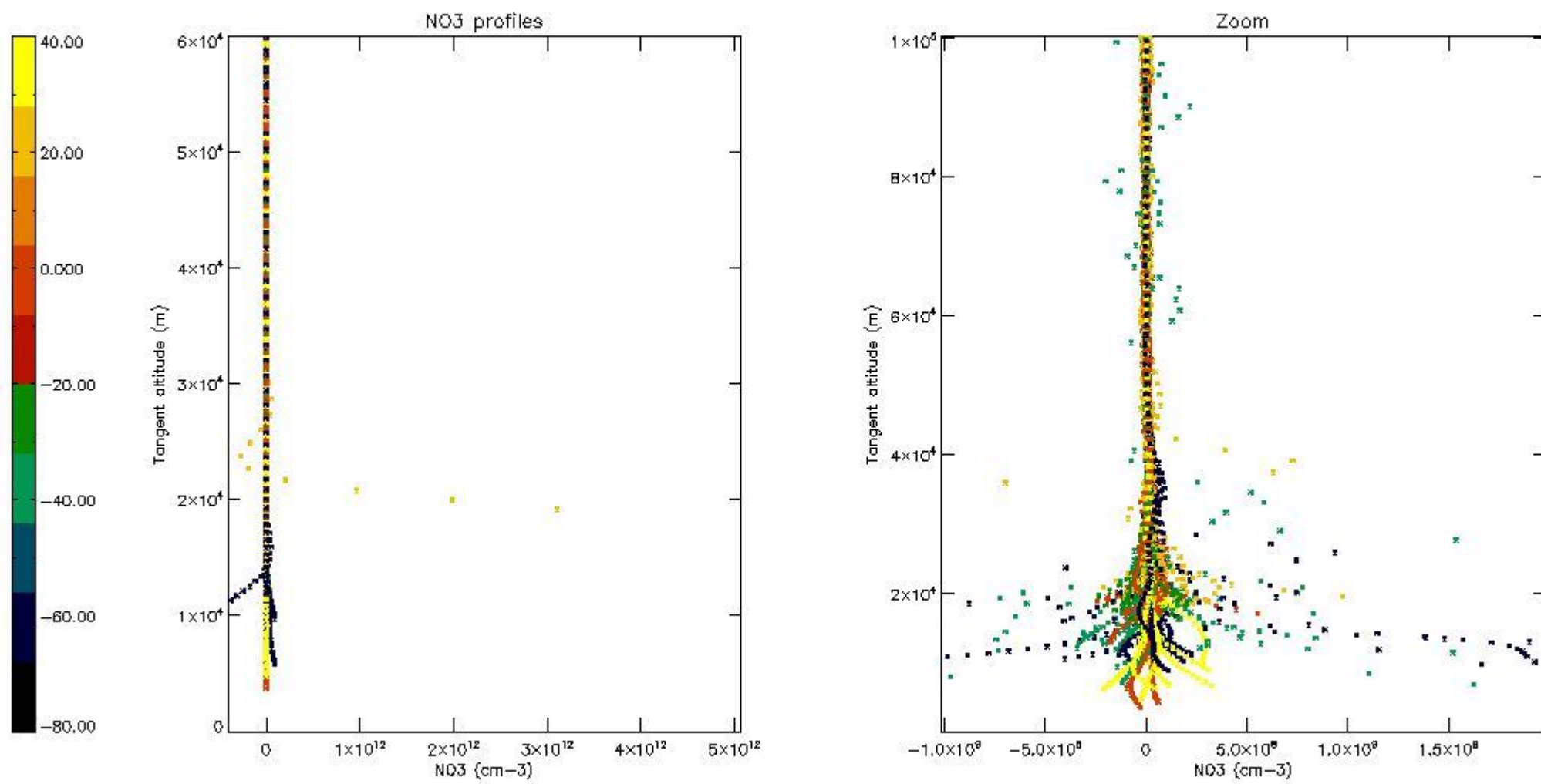
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



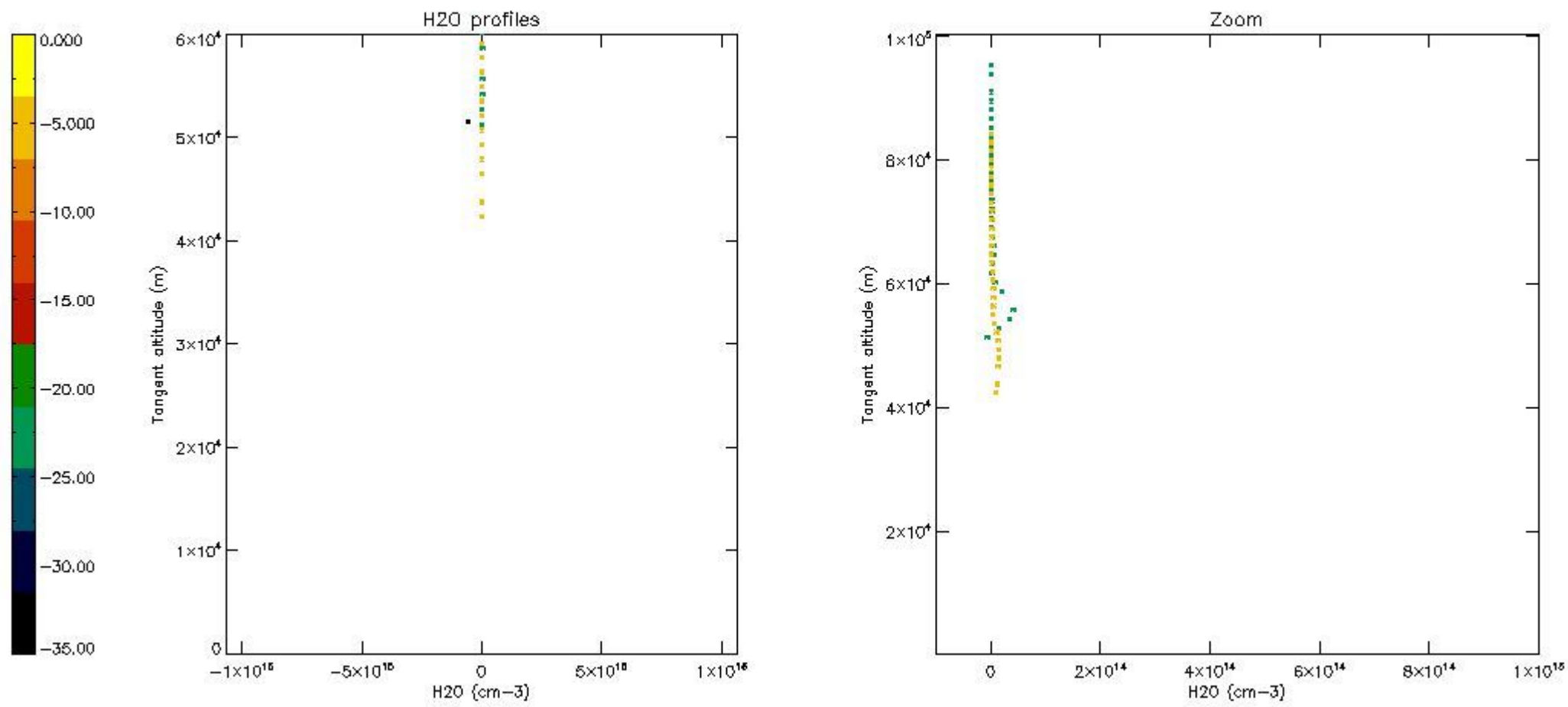
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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	12-OCT-2008 00:08:02
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	12-OCT-2008 00:08:02
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	12-OCT-2008 00:08:02

GOMOS Level 2 Daily Report

SUMMARY

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

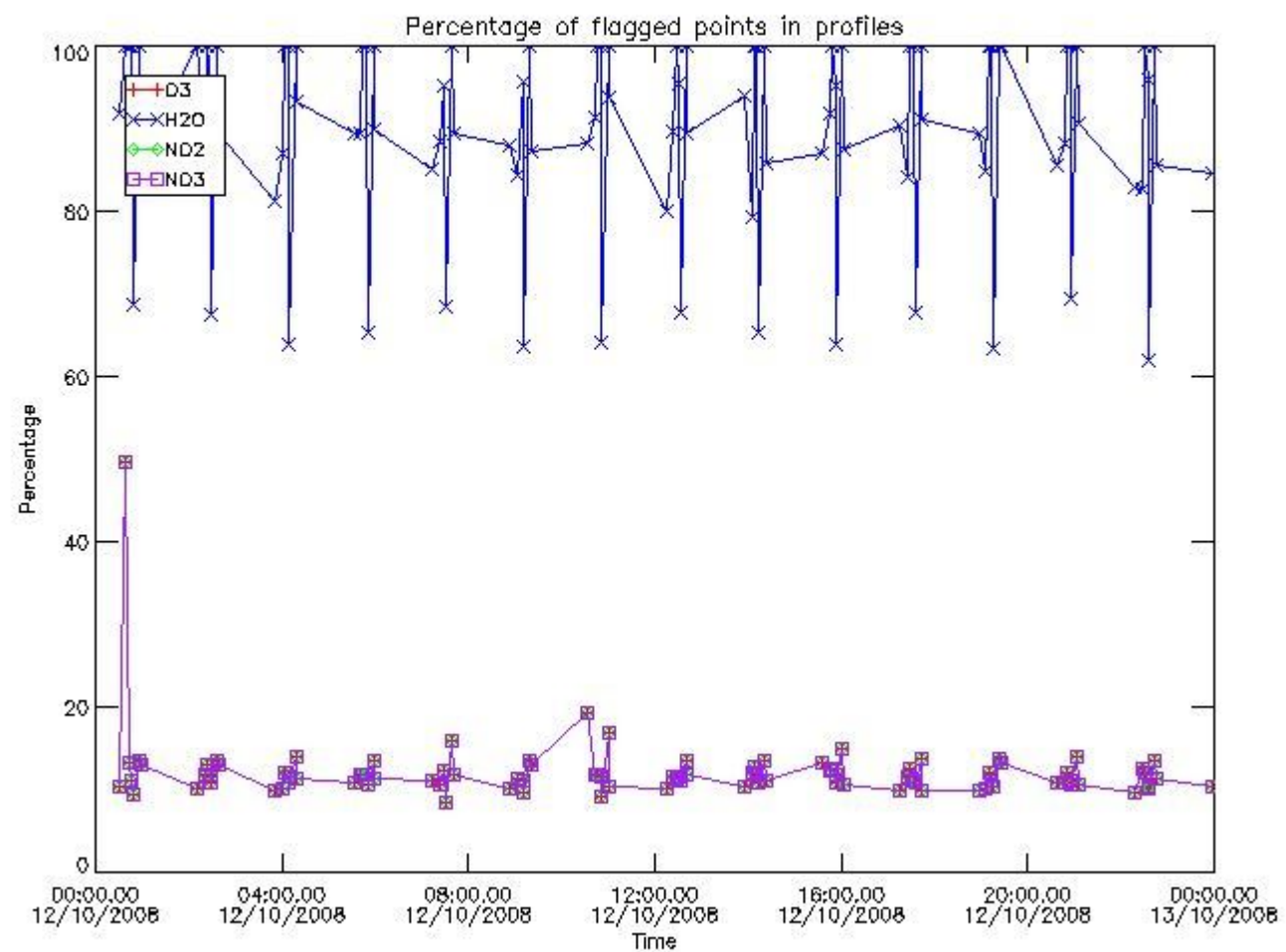
[6. Auxiliary Data Files used for the production reported in section 2](#)

279	GOM_NL__2PRFIN20081012_224420_000000382072_00488_34610_3636.N1	12-OCT-2008 22:44:20	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	34610	No
280	GOM_NL__2PRFIN20081012_224546_000000492072_00488_34610_3637.N1	12-OCT-2008 22:45:46	Dark	49.000	9	Alp Eri	0.45300	24000.	98	34610	No
281	GOM_NL__2PRFIN20081012_224812_000000452072_00488_34610_3638.N1	12-OCT-2008 22:48:12	Straylight	45.000	157	The1Eri	2.9060	9300.0	90	34610	No
282	GOM_NL__2PRFIN20081012_225729_000000452072_00488_34610_3639.N1	12-OCT-2008 22:57:29	Straylight	44.500	52	16Bet Cet	2.0370	4500.0	89	34610	No
283	GOM_NL__2PRFIN20081012_230713_000000352072_00488_34610_3640.N1	12-OCT-2008 23:07:13	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	34610	No
284	GOM_NL__2PRFIN20081012_231112_000000372072_00488_34610_3641.N1	12-OCT-2008 23:11:12	Bright	37.000	58	21Alp And	2.0730	11000.	74	34610	No
285	GOM_NL__2PRFIN20081012_231355_000000432072_00488_34610_3642.N1	12-OCT-2008 23:13:55	Bright	42.500	53	43Bet And	2.0480	3300.0	85	34610	No
286	GOM_NL__2PRFIN20081012_231920_000000382072_00488_34610_3643.N1	12-OCT-2008 23:19:20	Bright	38.000	68	18Alp Cas	2.2250	4500.0	76	34610	No
287	GOM_NL__2PRFIN20081012_232043_000000382072_00488_34610_3644.N1	12-OCT-2008 23:20:43	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	34610	No
288	GOM_NL__2PRFIN20081012_232813_000000342072_00488_34610_3645.N1	12-OCT-2008 23:28:13	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	34610	No
289	GOM_NL__2PRFIN20081012_233625_000000382072_00488_34610_3646.N1	12-OCT-2008 23:36:25	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	34610	No
290	GOM_NL__2PRFIN20081012_233758_000000522072_00488_34610_3647.N1	12-OCT-2008 23:37:58	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	34610	No
291	GOM_NL__2PRFIN20081012_234119_000000352072_00488_34610_3648.N1	12-OCT-2008 23:41:19	Bright	34.500	174	52Psi UMa	3.0040	4400.0	69	34610	No
292	GOM_NL__2PRFIN20081012_234812_000000442072_00488_34610_3649.N1	12-OCT-2008 23:48:12	Bright	43.500	166	17Eps Leo	2.9800	6000.0	87	34610	No
293	GOM_NL__2PRFIN20081012_235125_000000552072_00488_34610_3650.N1	12-OCT-2008 23:51:25	Bright	54.500	22	32Alp Leo	1.3600	15200.	109	34610	No
294	GOM_NL__2PRFIN20081012_235836_000000492072_00488_34610_3651.N1	12-OCT-2008 23:58:36	Dark	48.500	48	30Alp Hya	1.9770	4100.0	97	34610	No

3. Quality information per product

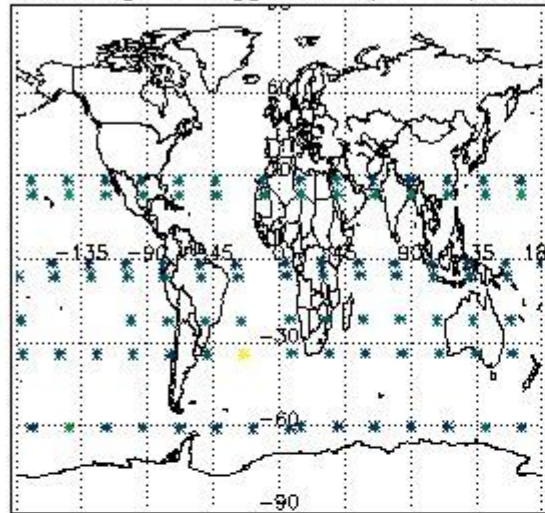
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

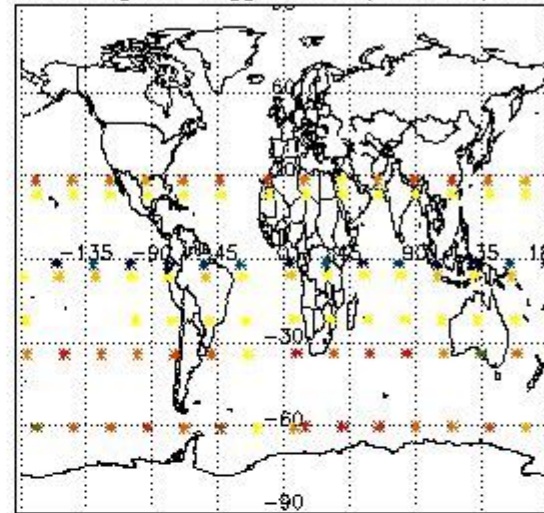


3.2 Plot quality information per product (world map)

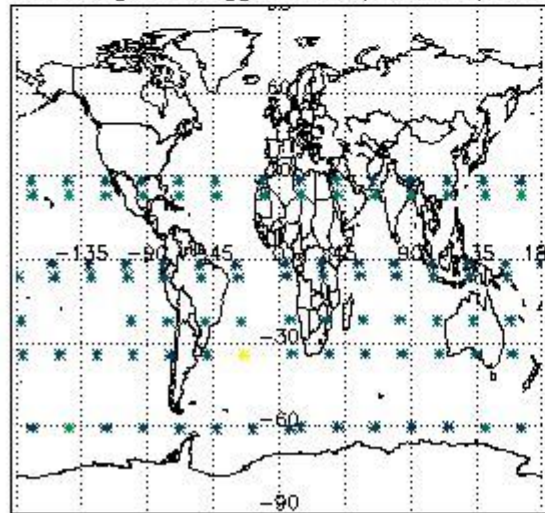
Percentage of flagged data per O3 profile



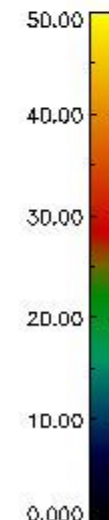
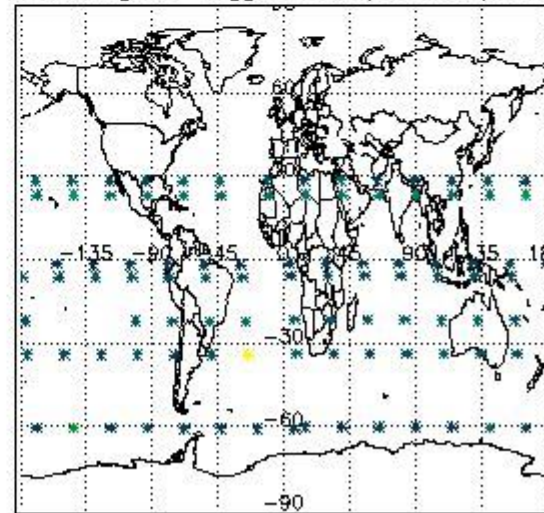
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

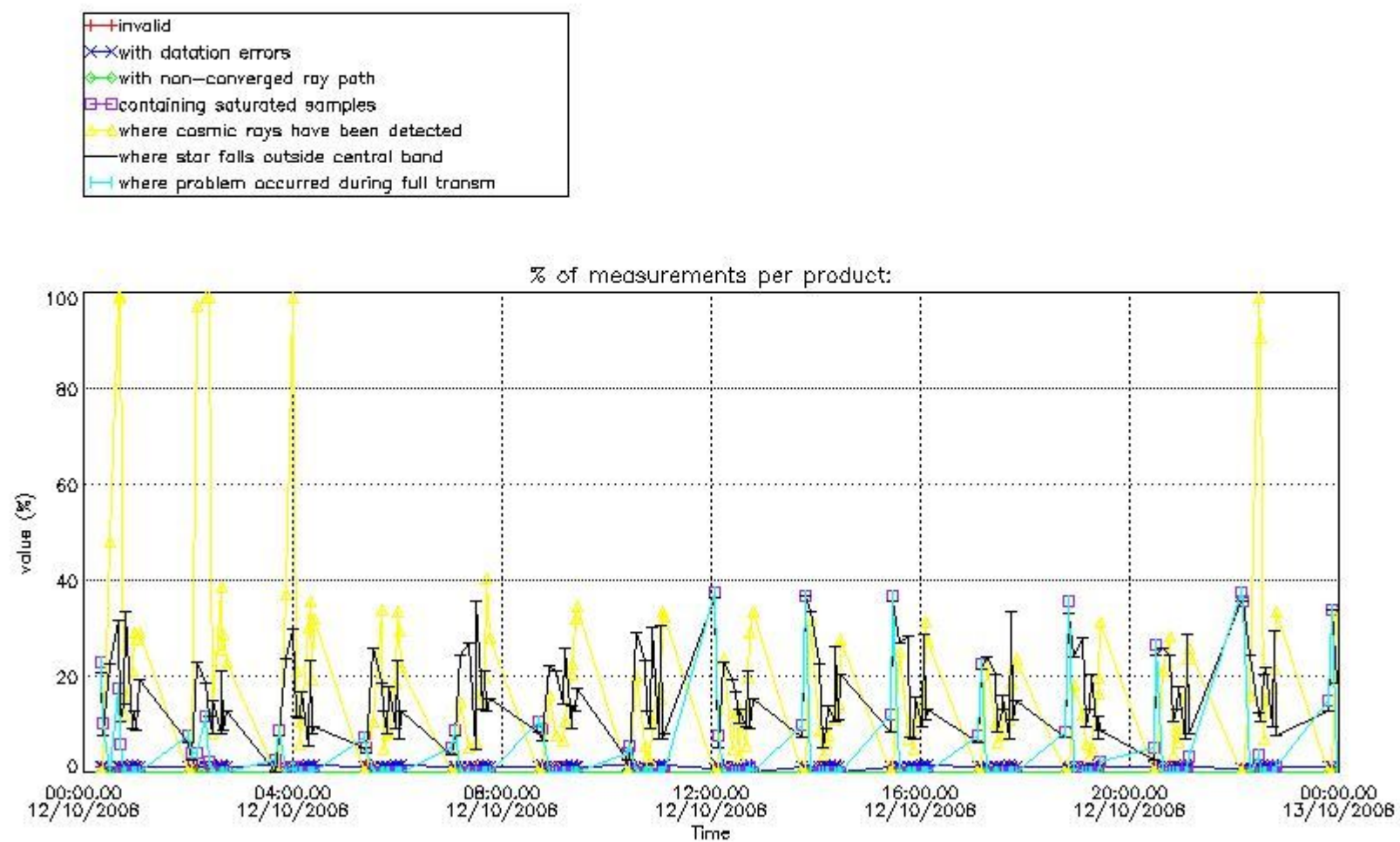


4. Level 1 quality information per product

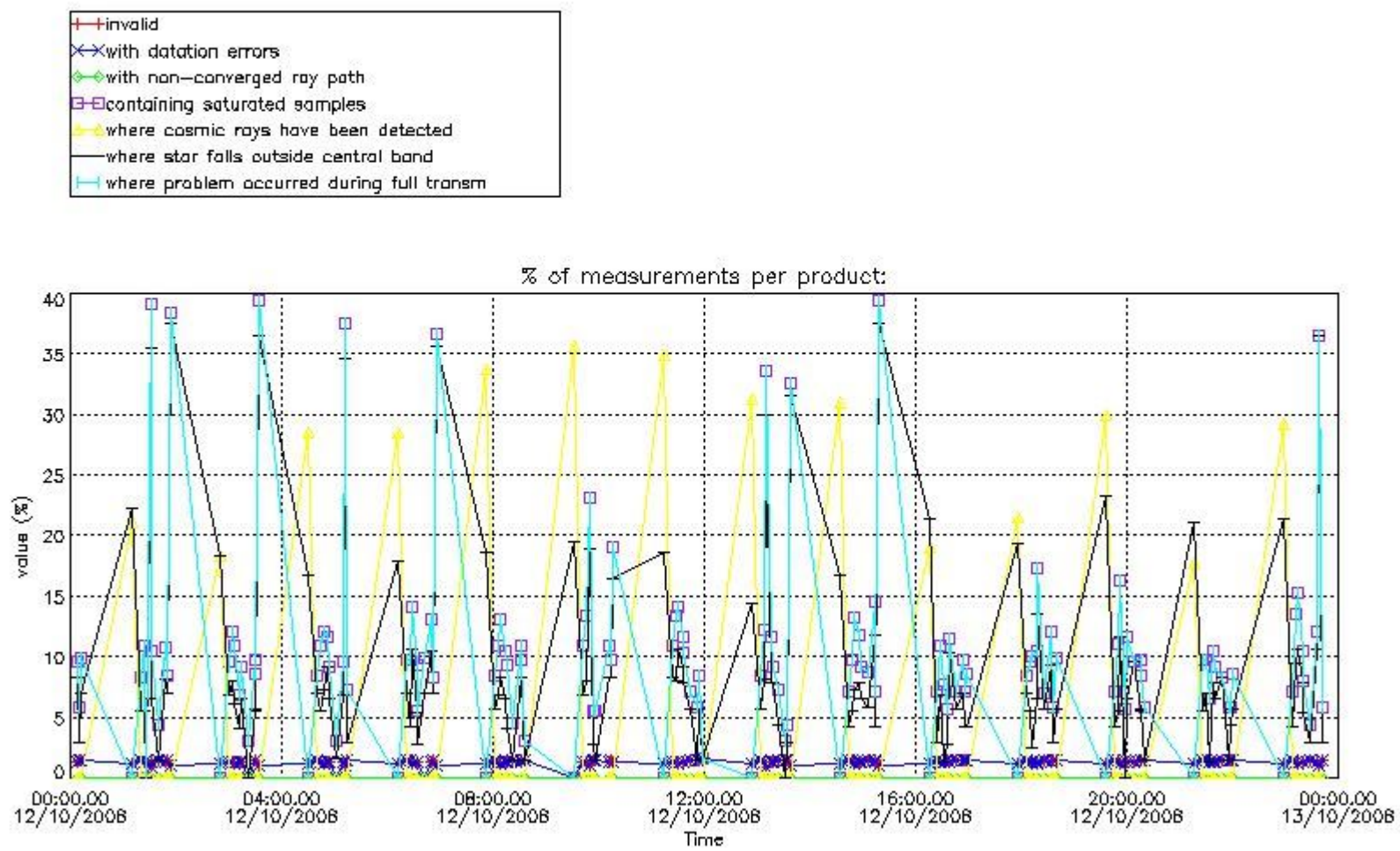
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

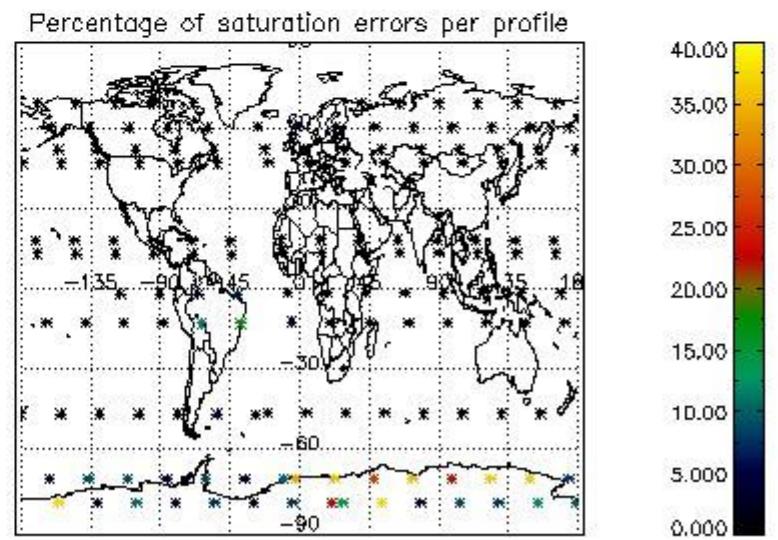
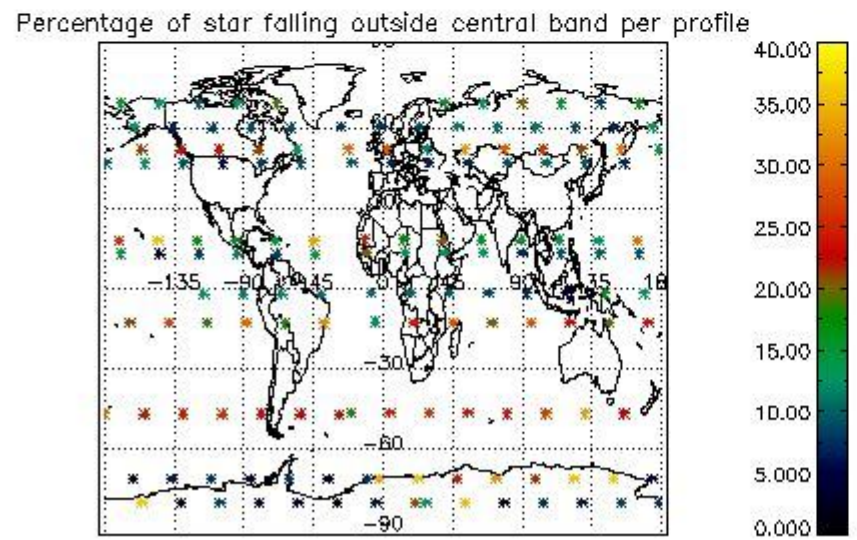
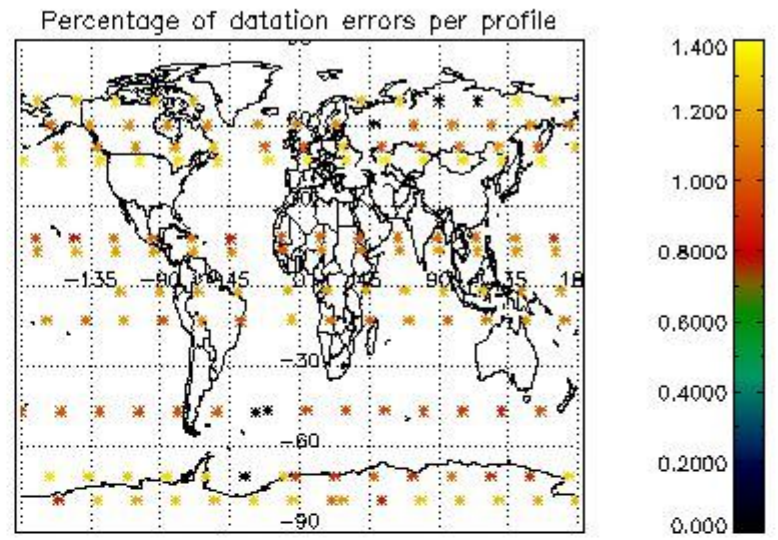
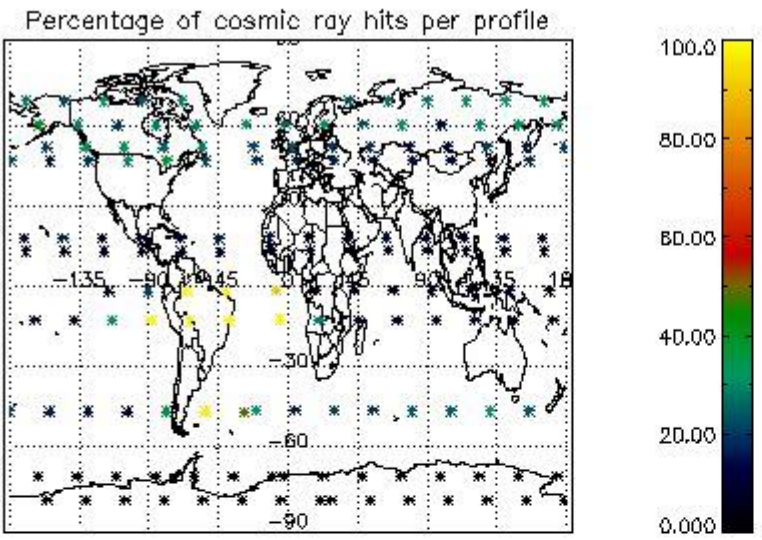


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

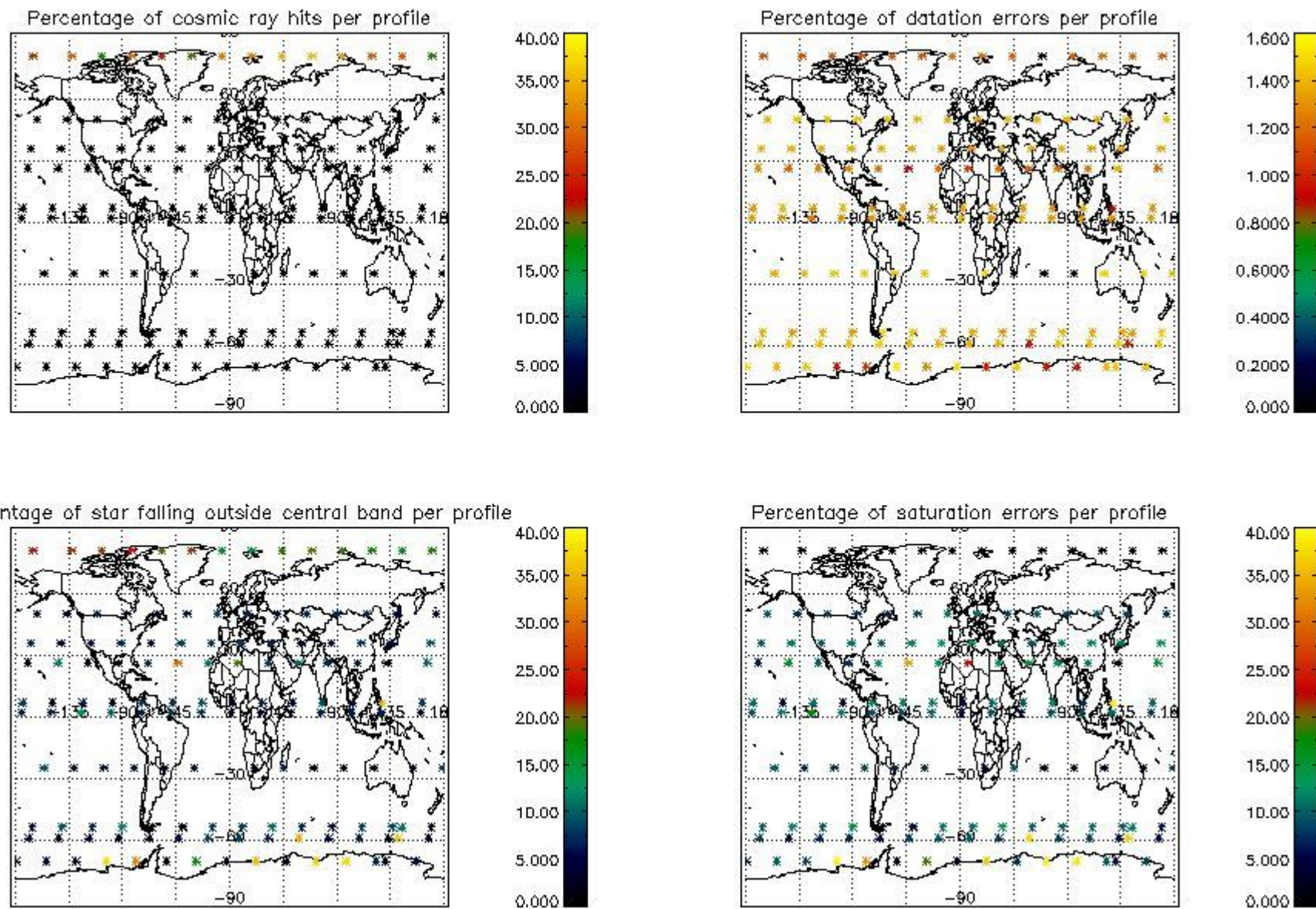


4.2 Plot quality information per product coming from level 1b processing (world map)

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

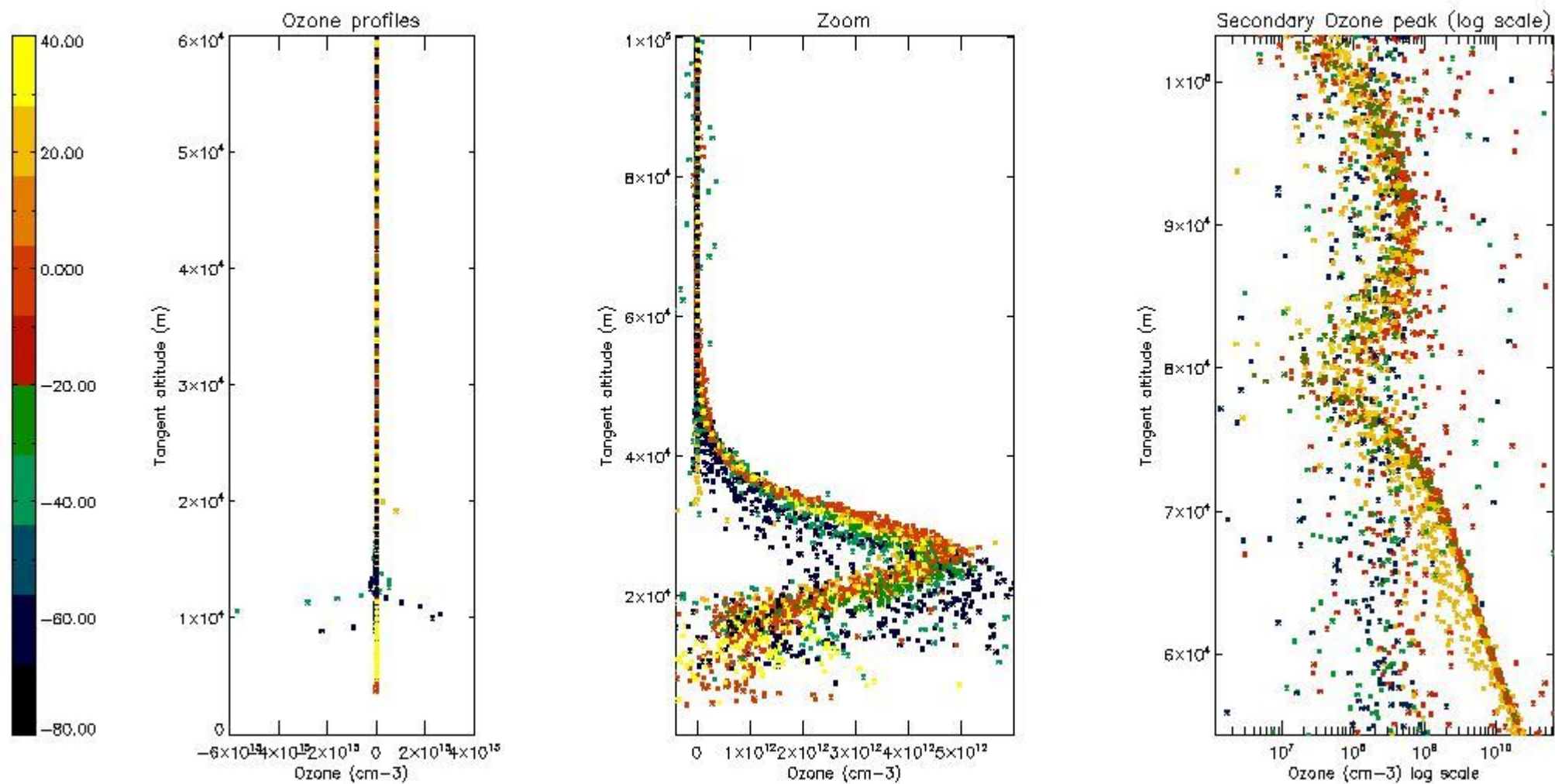
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	37
STD < 20	17

STD < 10	12
STD < 5	9

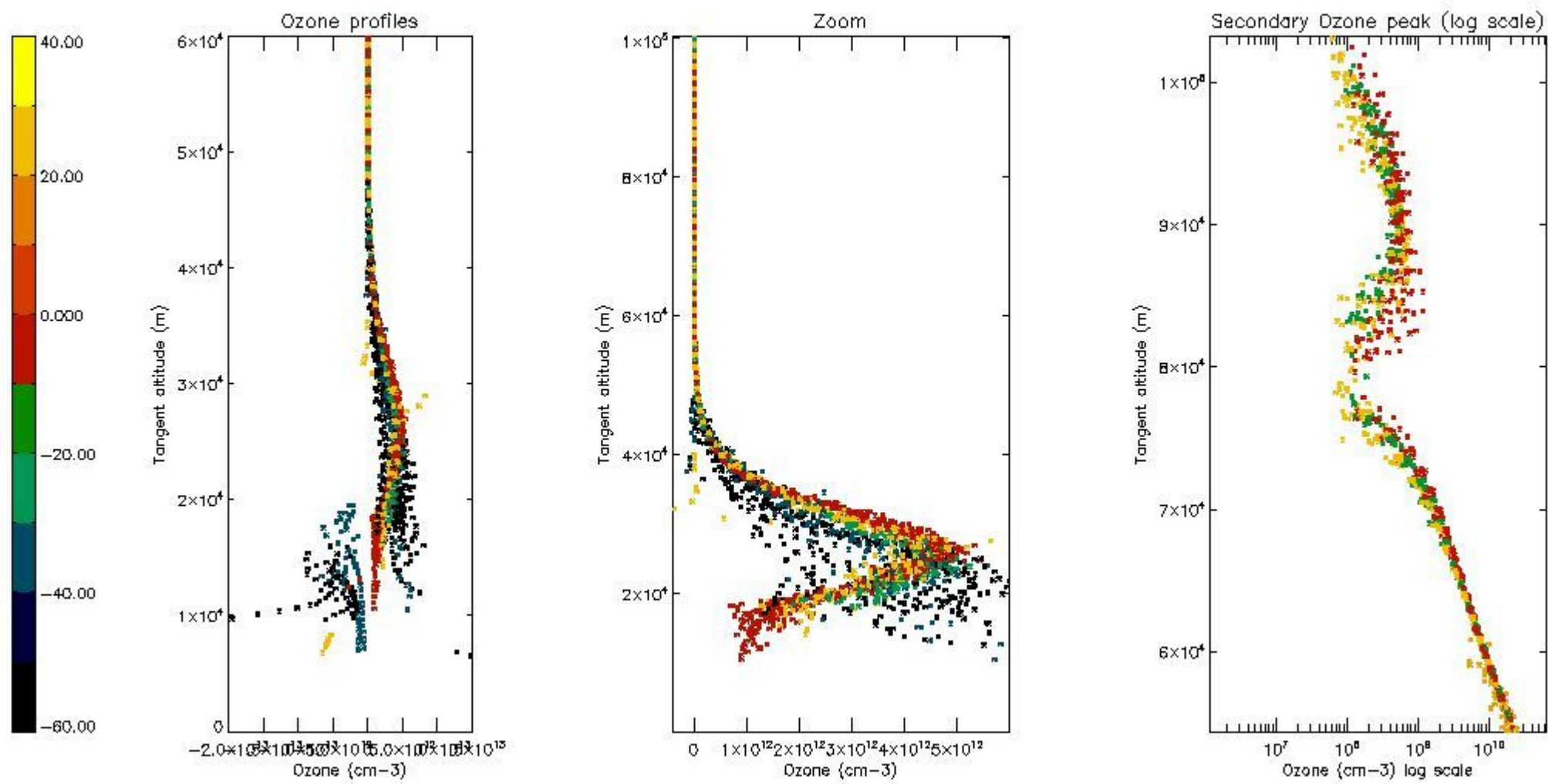
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



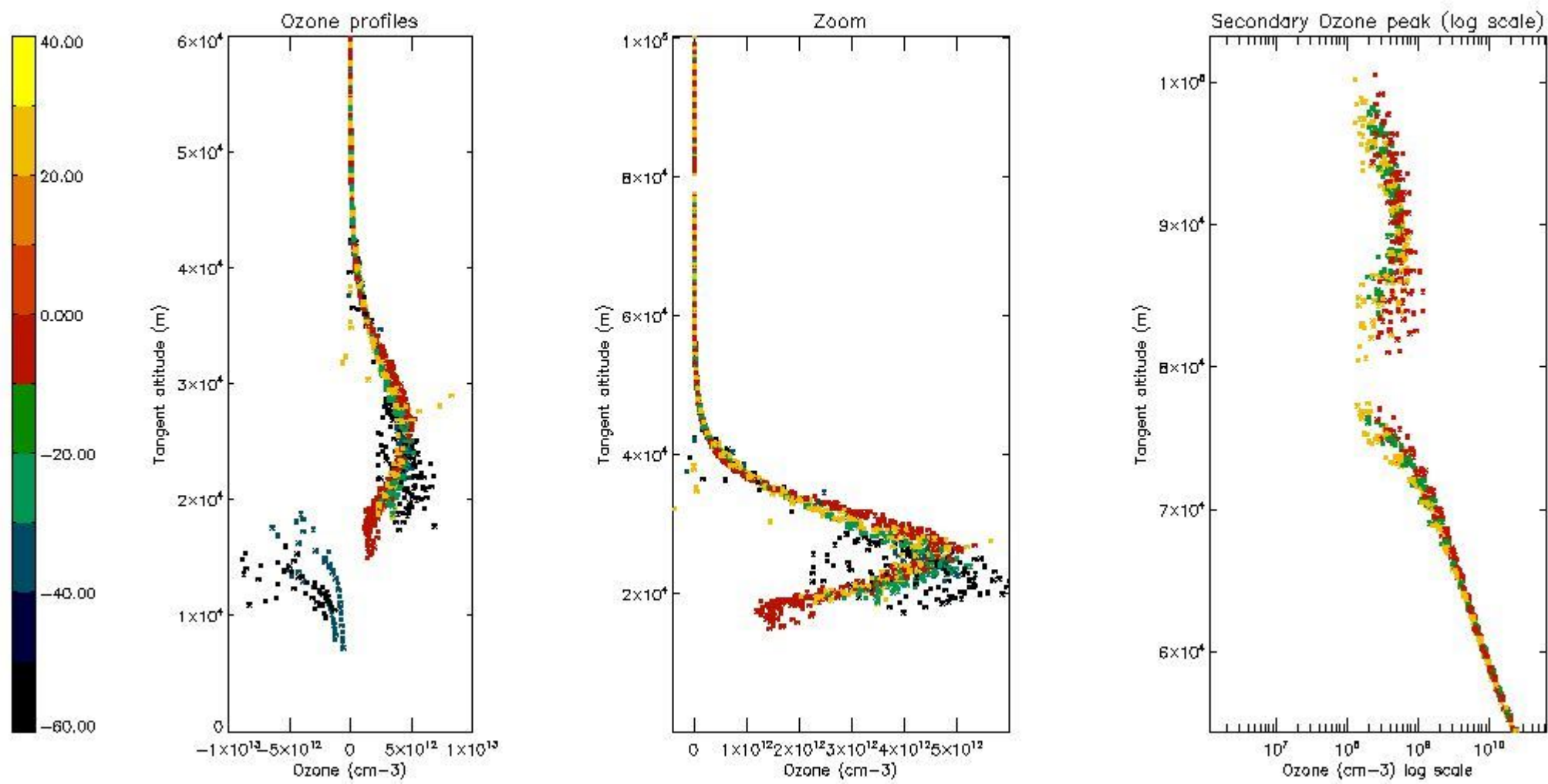
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



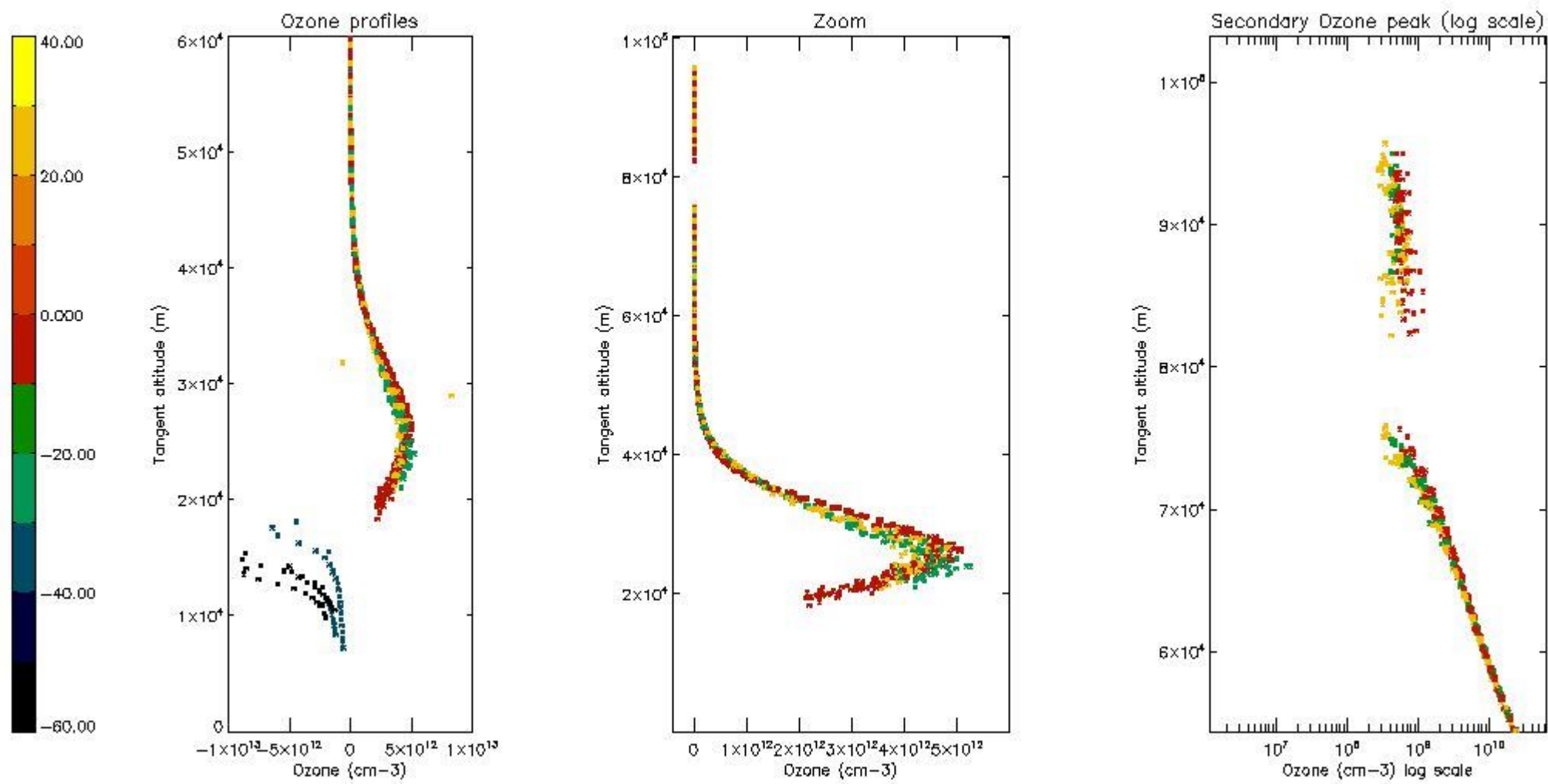
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



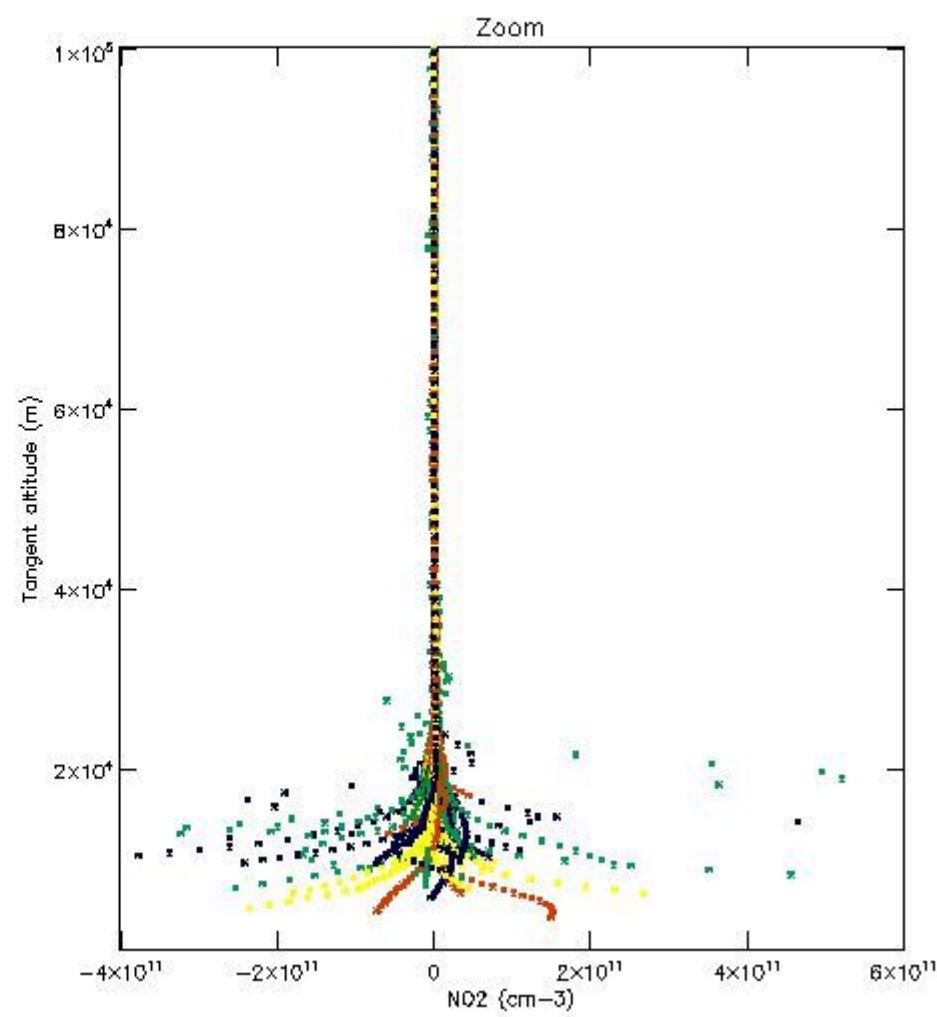
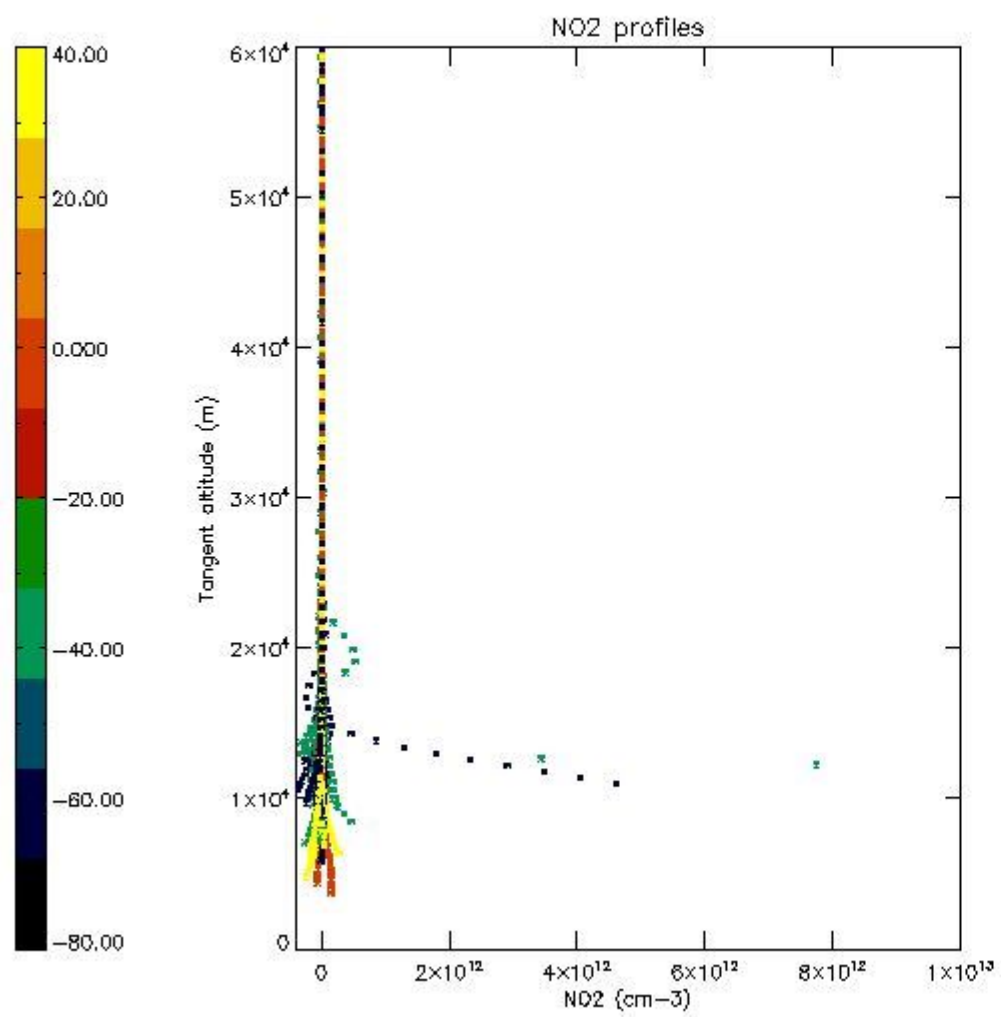
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



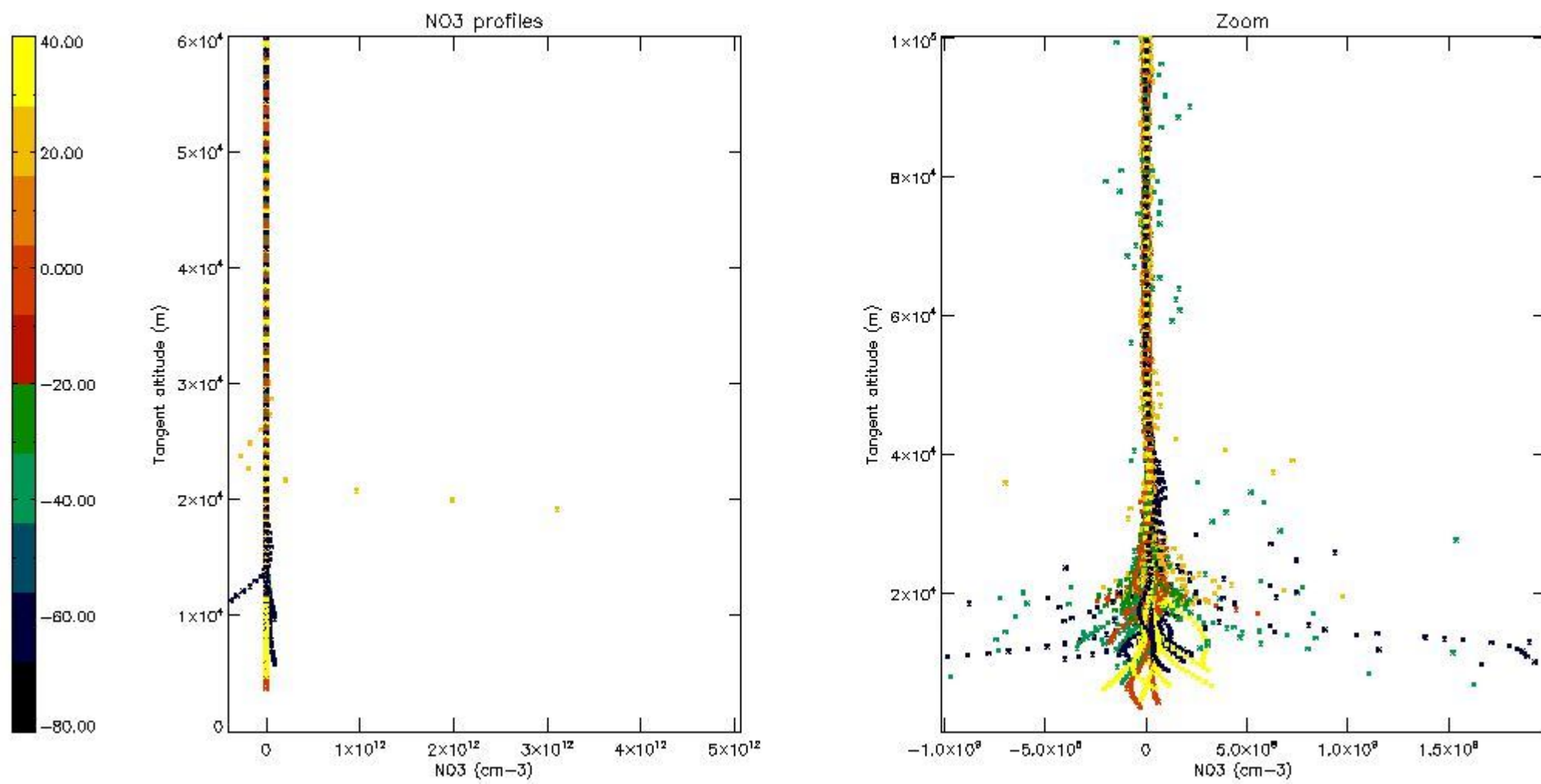
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



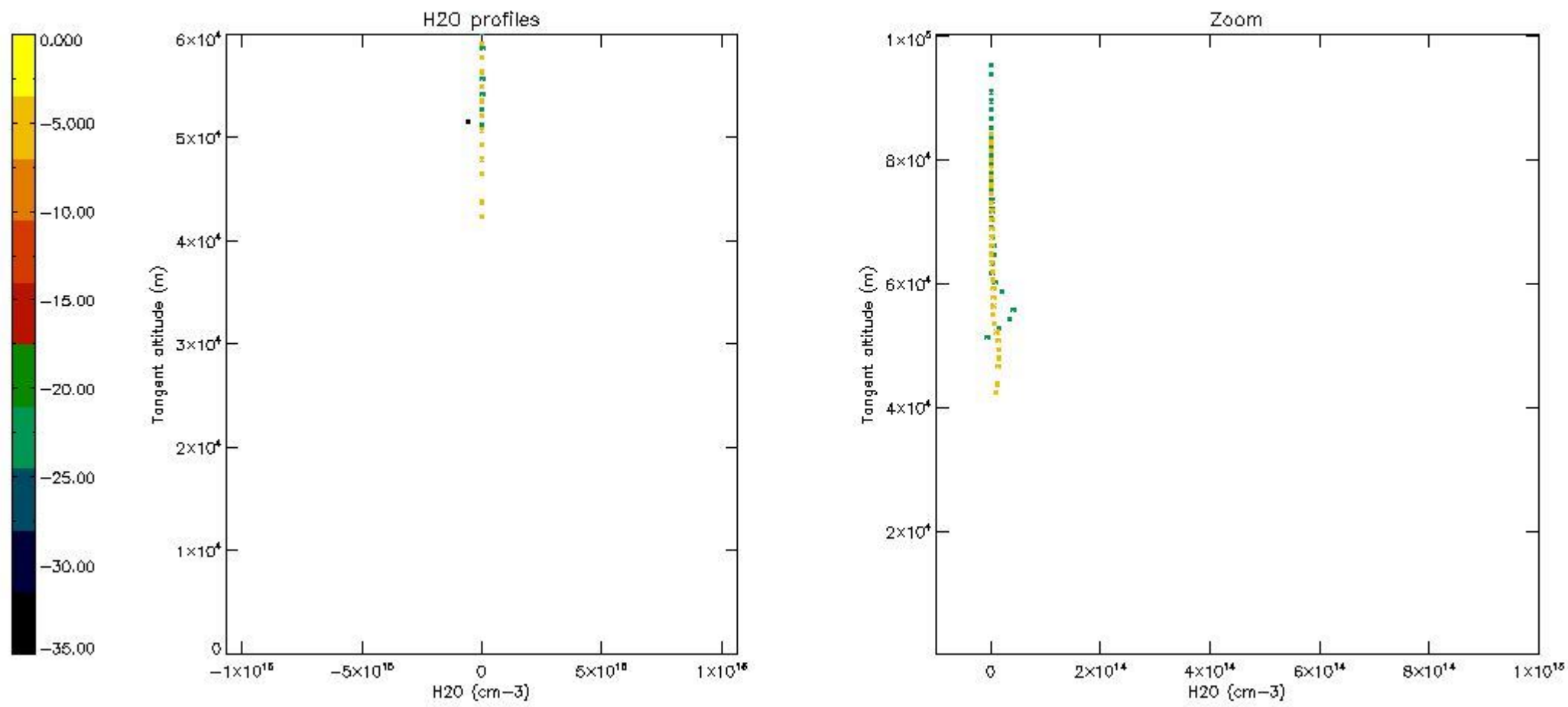
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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)

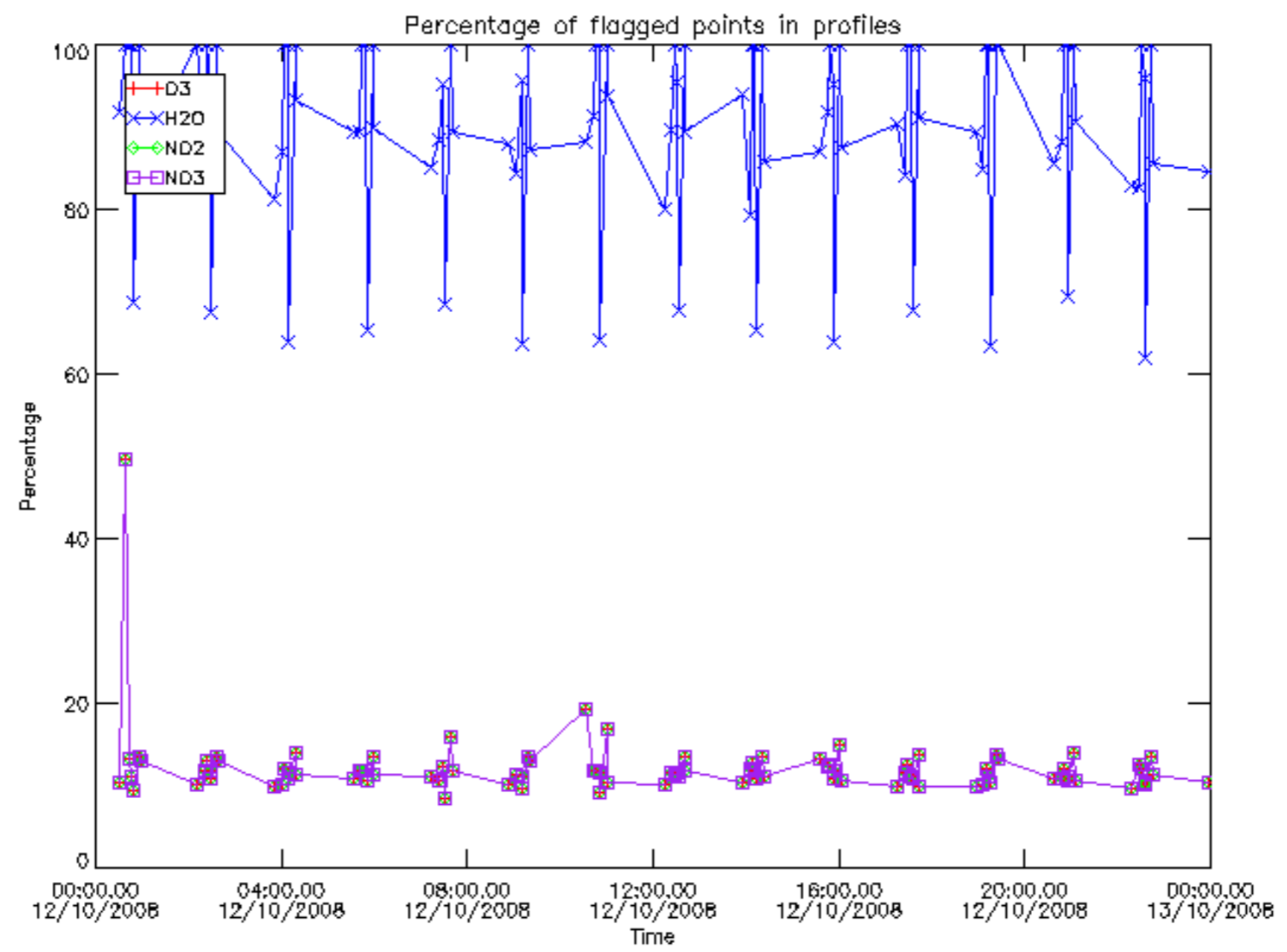
The colorbar represents the latitude.



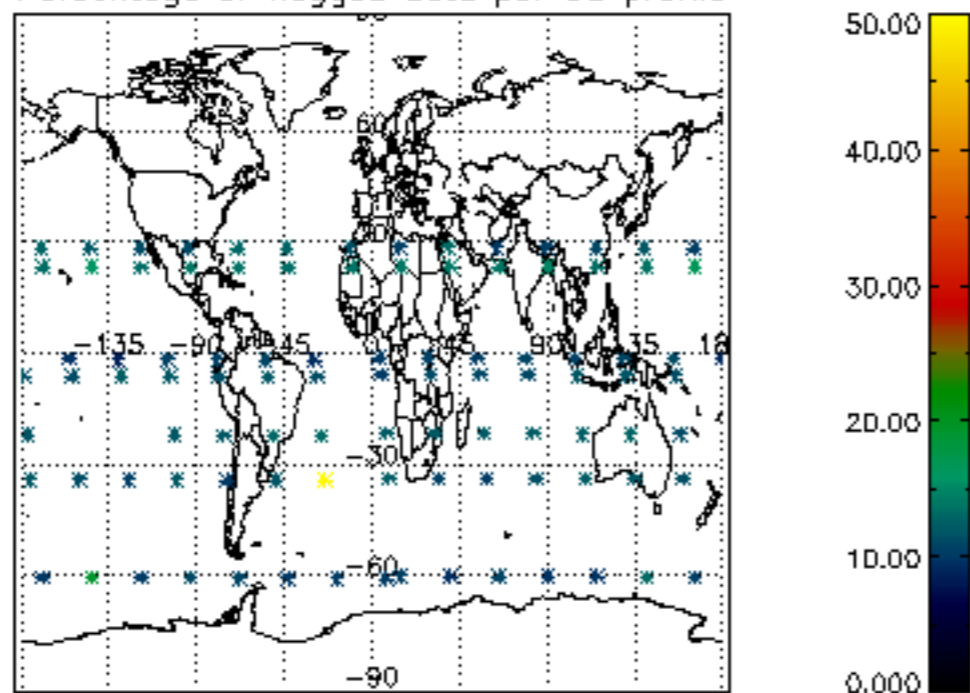
6. Auxiliary Data Files used for the production reported in section 2

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.

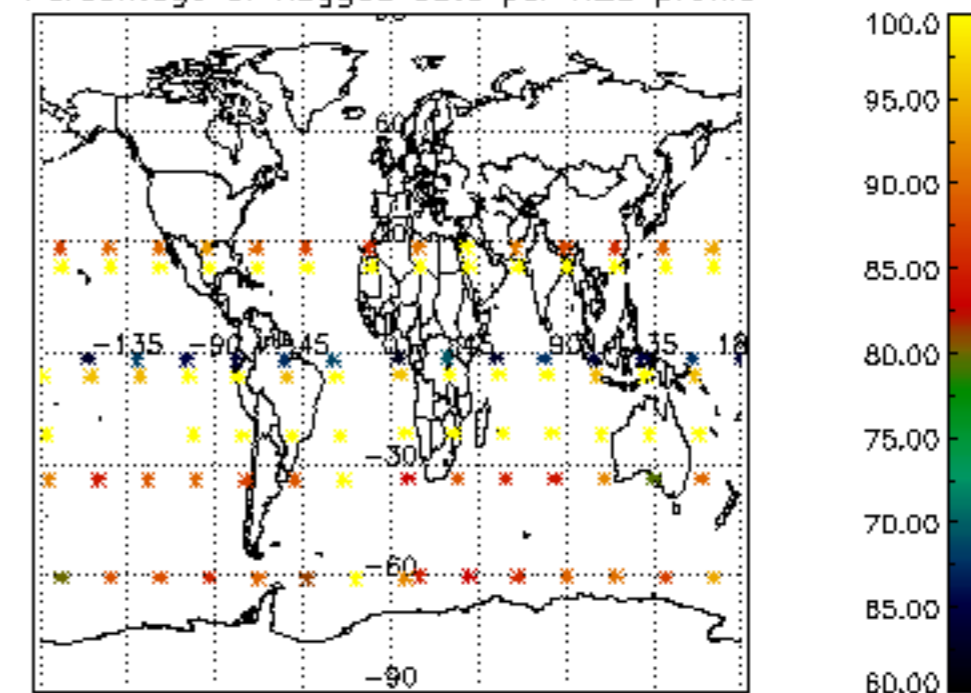
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	12-OCT-2008 00:08:02
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	12-OCT-2008 00:08:02
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	12-OCT-2008 00:08:02



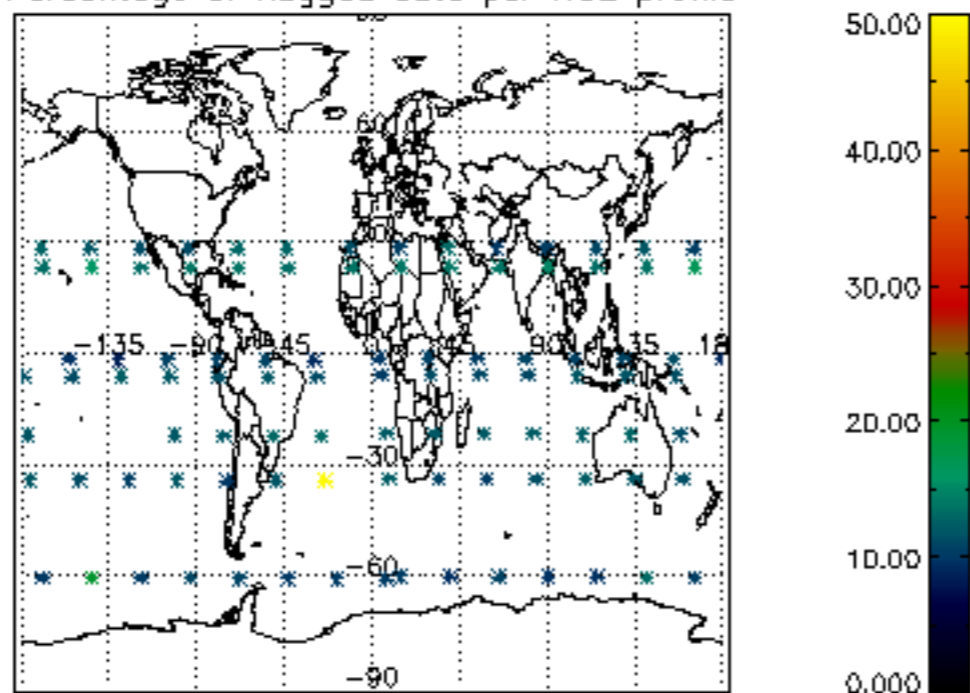
Percentage of flagged data per D3 profile



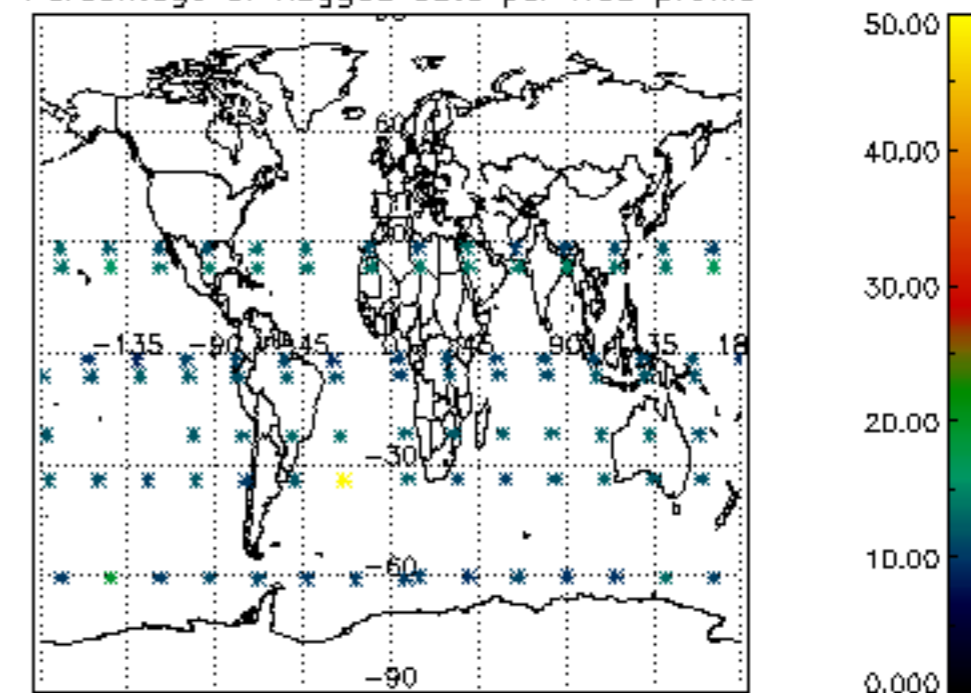
Percentage of flagged data per H2O profile

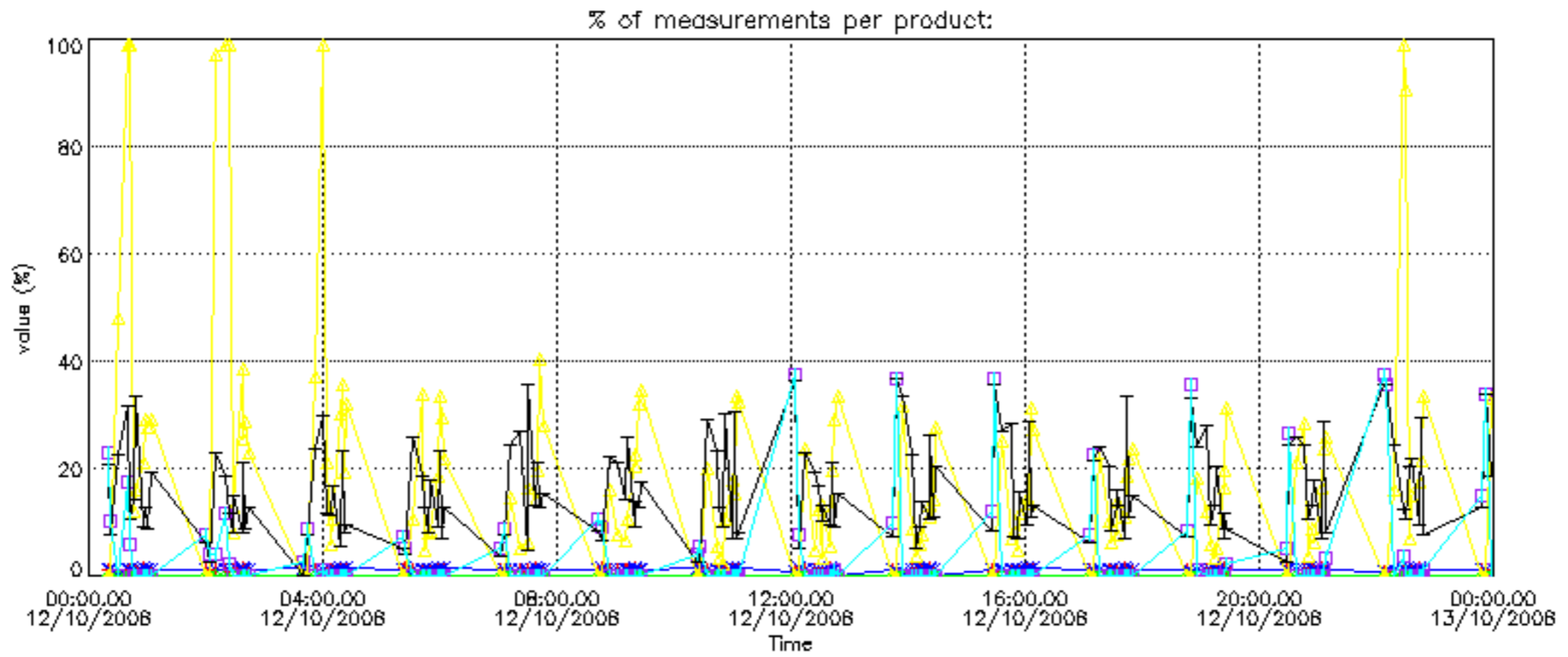


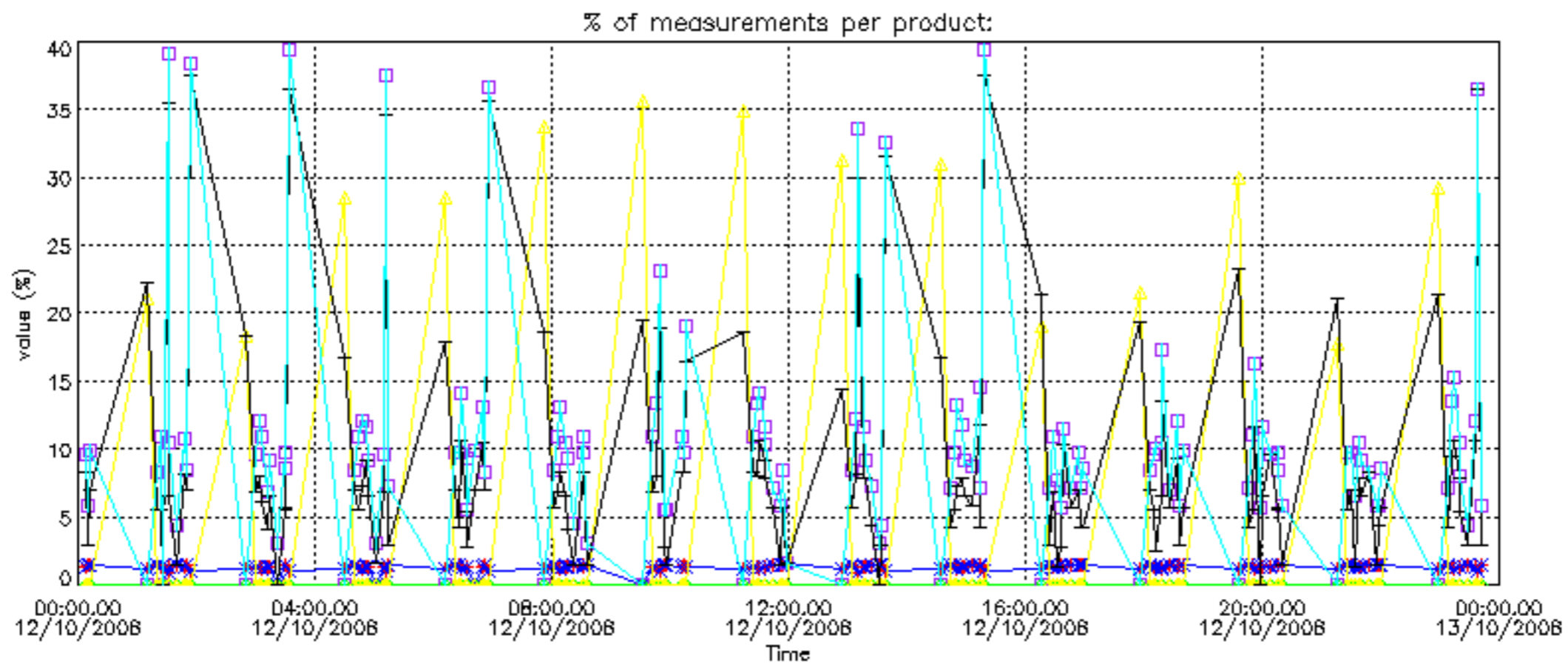
Percentage of flagged data per NO2 profile



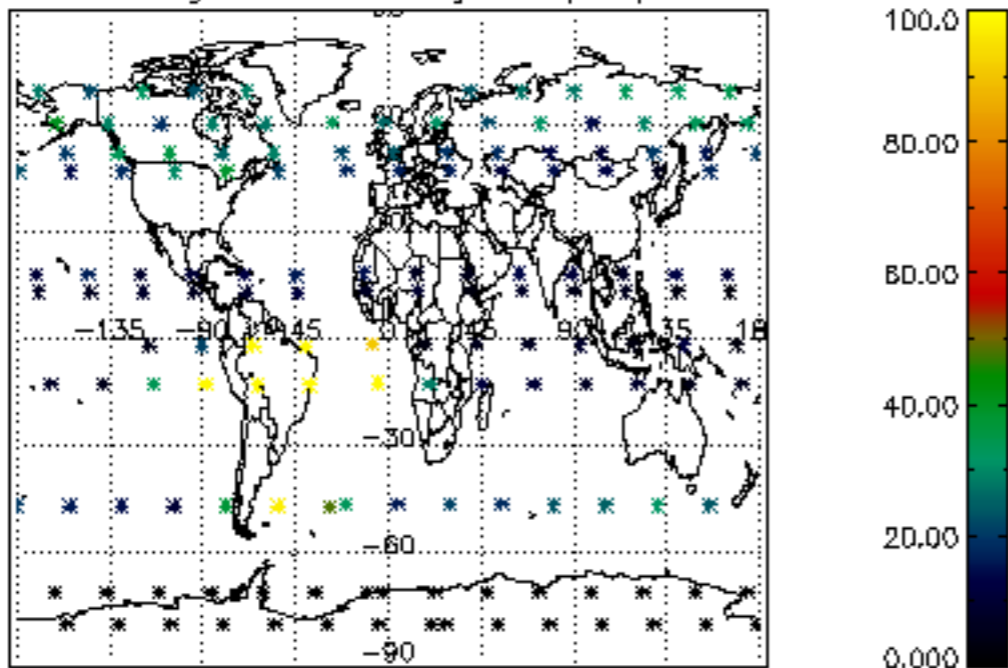
Percentage of flagged data per NO3 profile



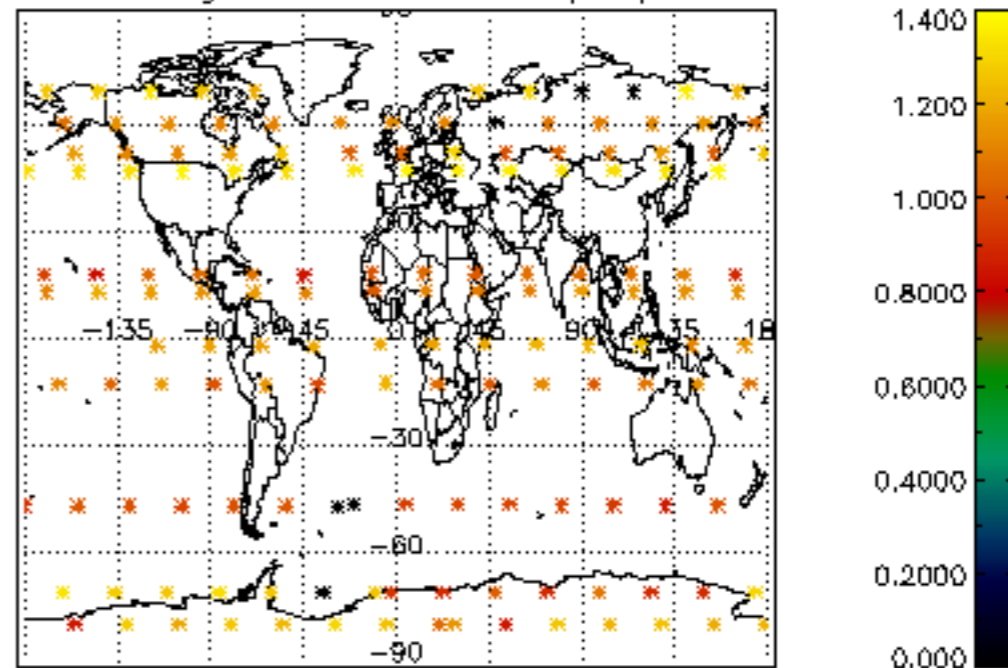




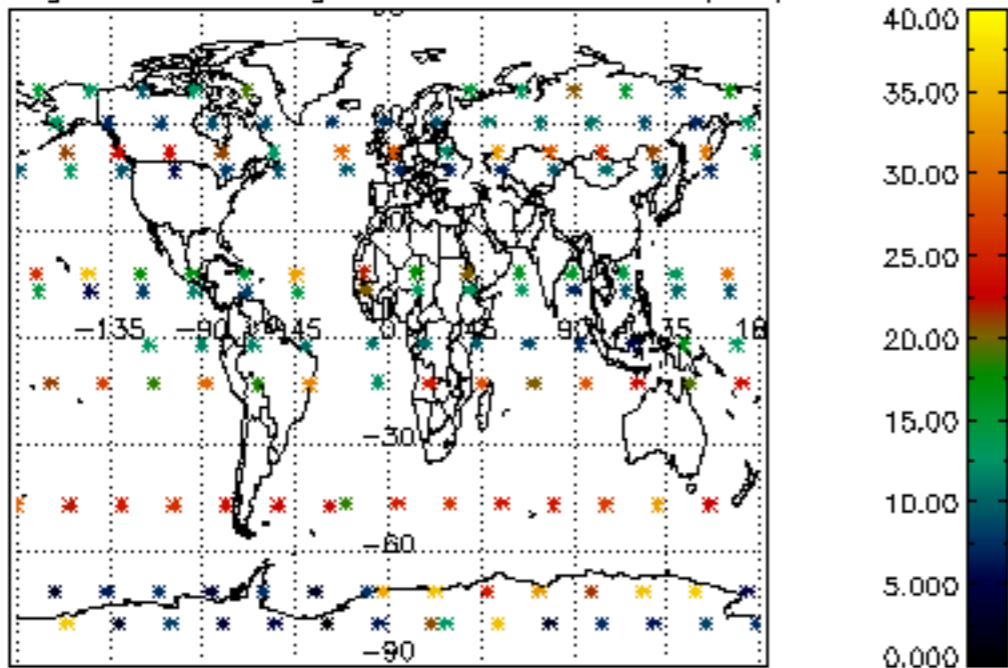
Percentage of cosmic ray hits per profile



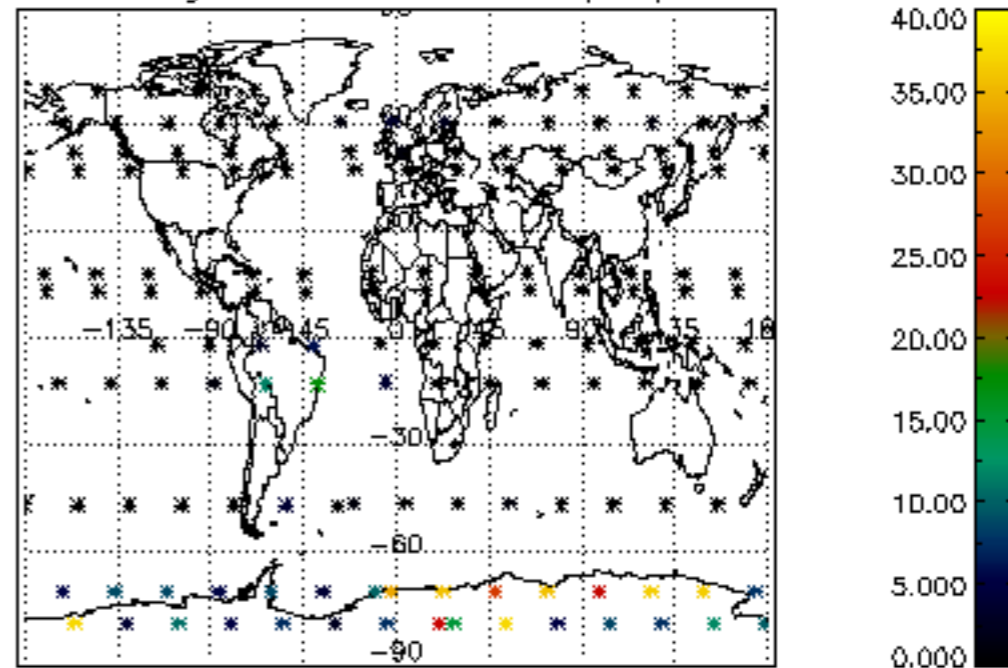
Percentage of datation errors per profile



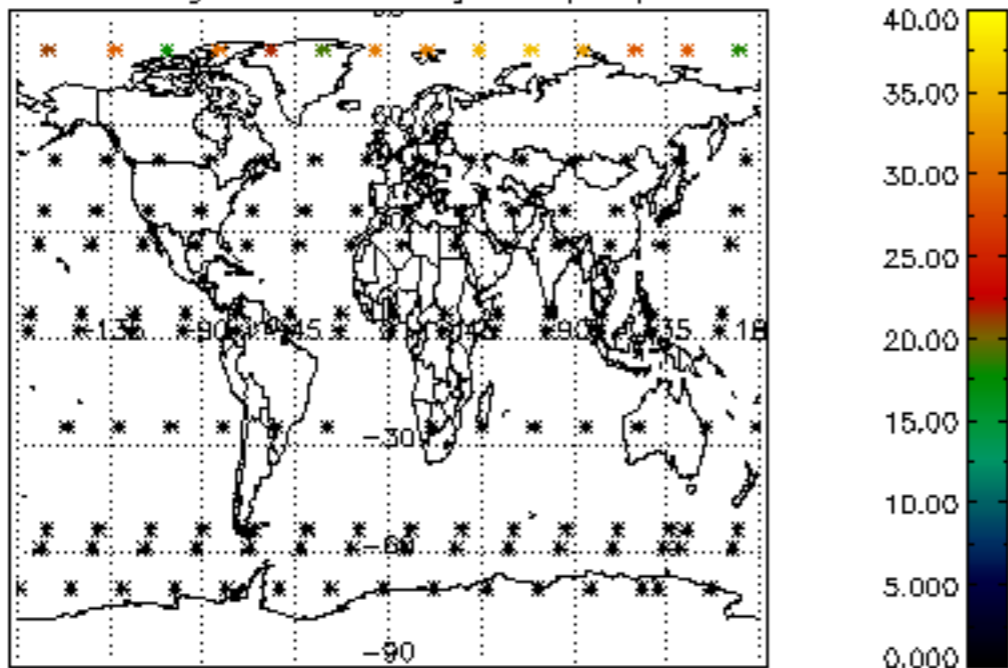
Percentage of star falling outside central band per profile



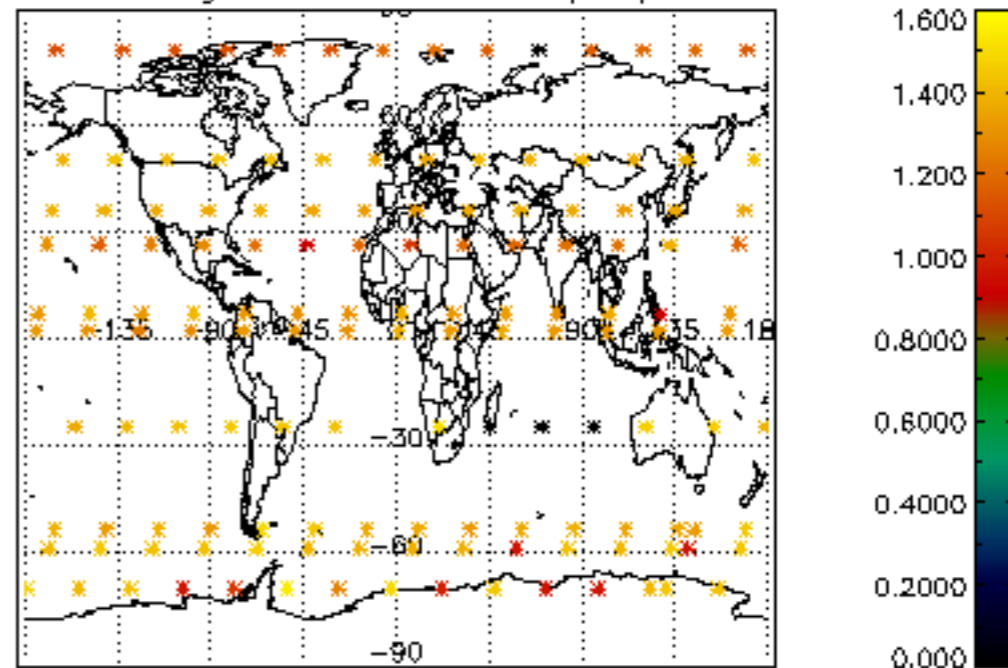
Percentage of saturation errors per profile



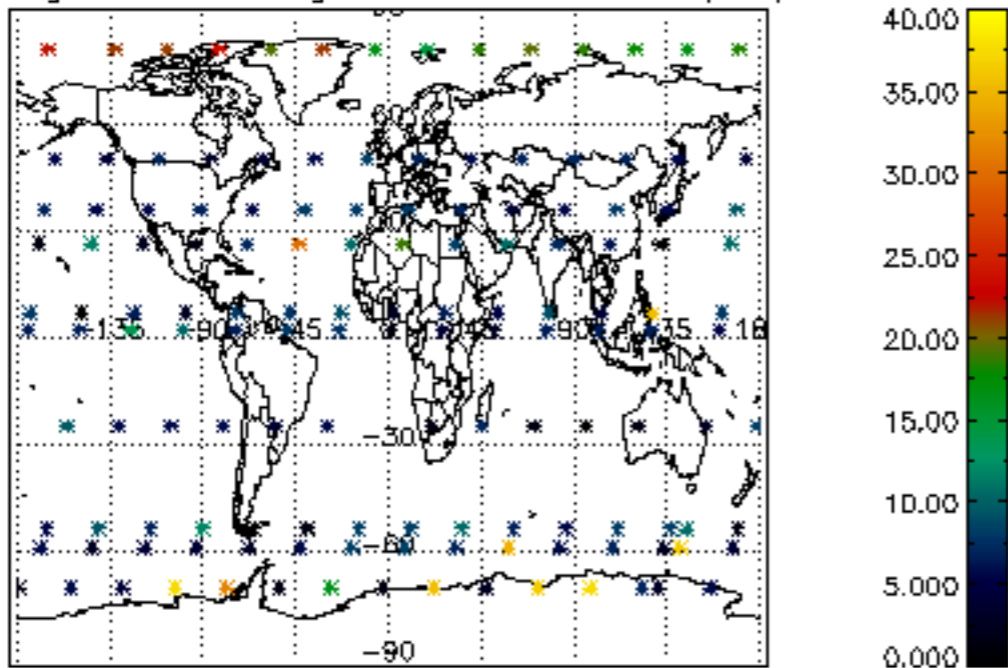
Percentage of cosmic ray hits per profile



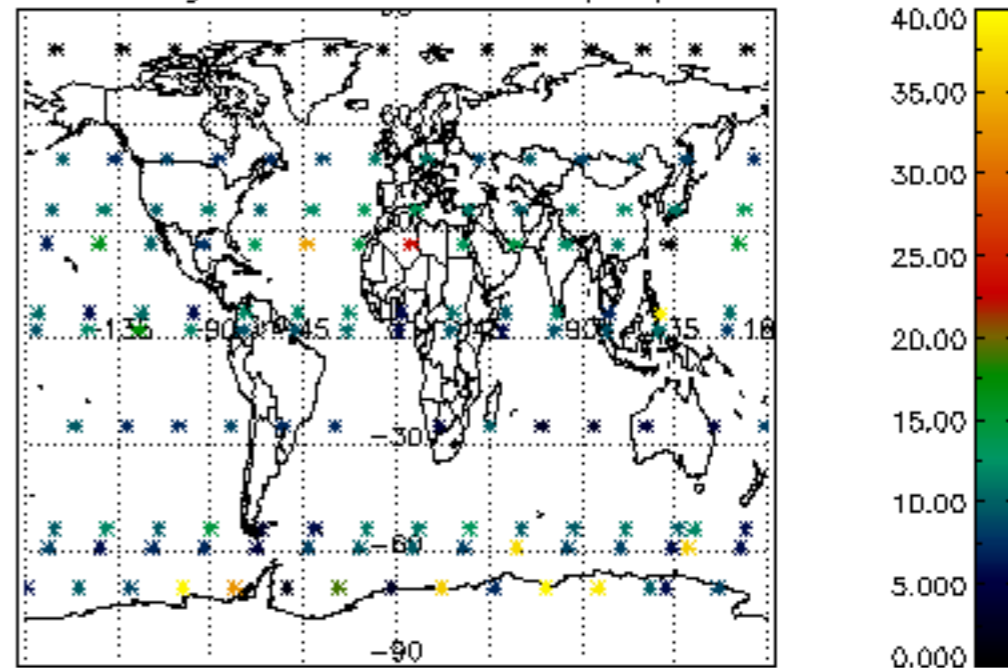
Percentage of datation errors per profile

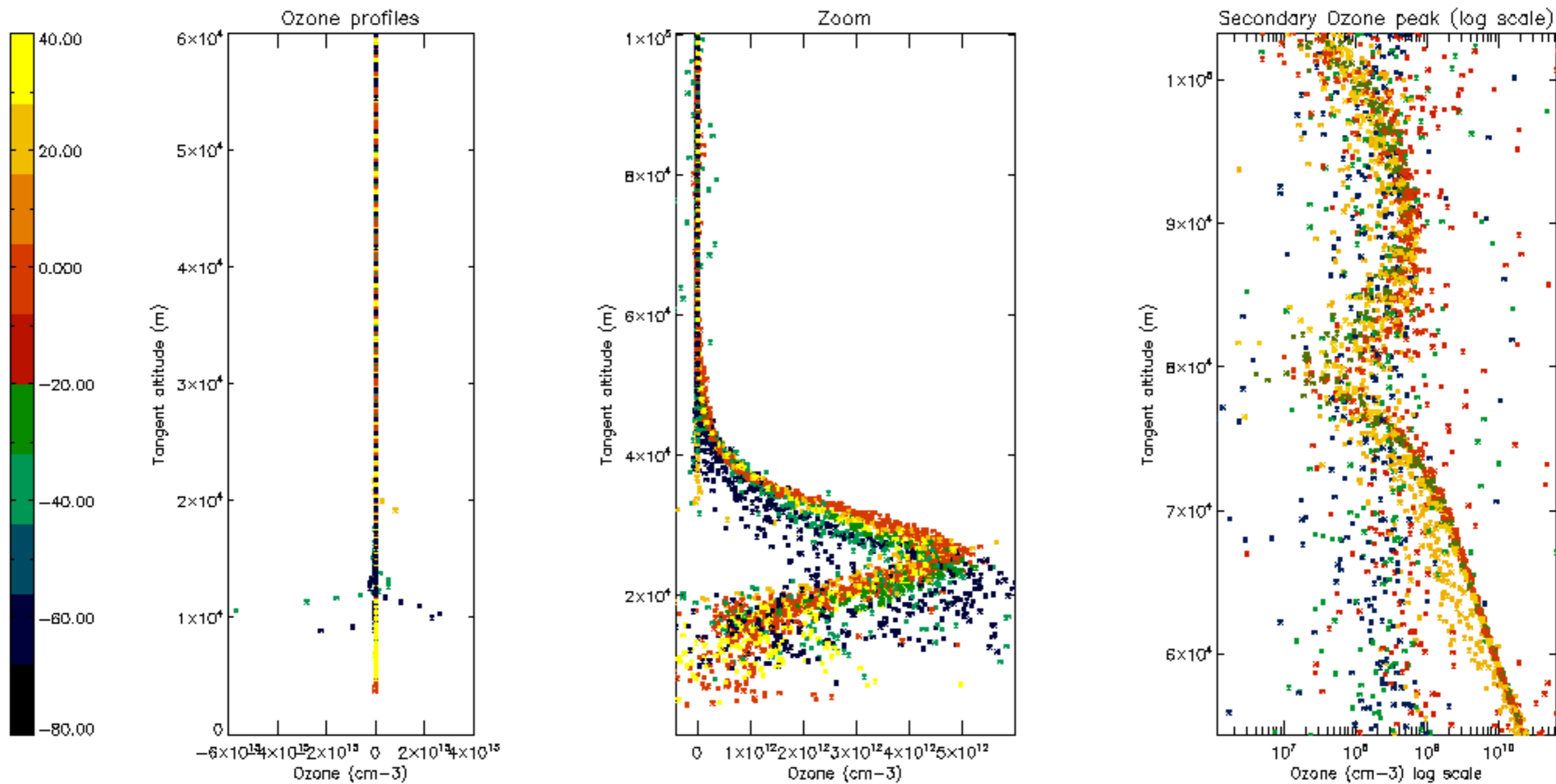


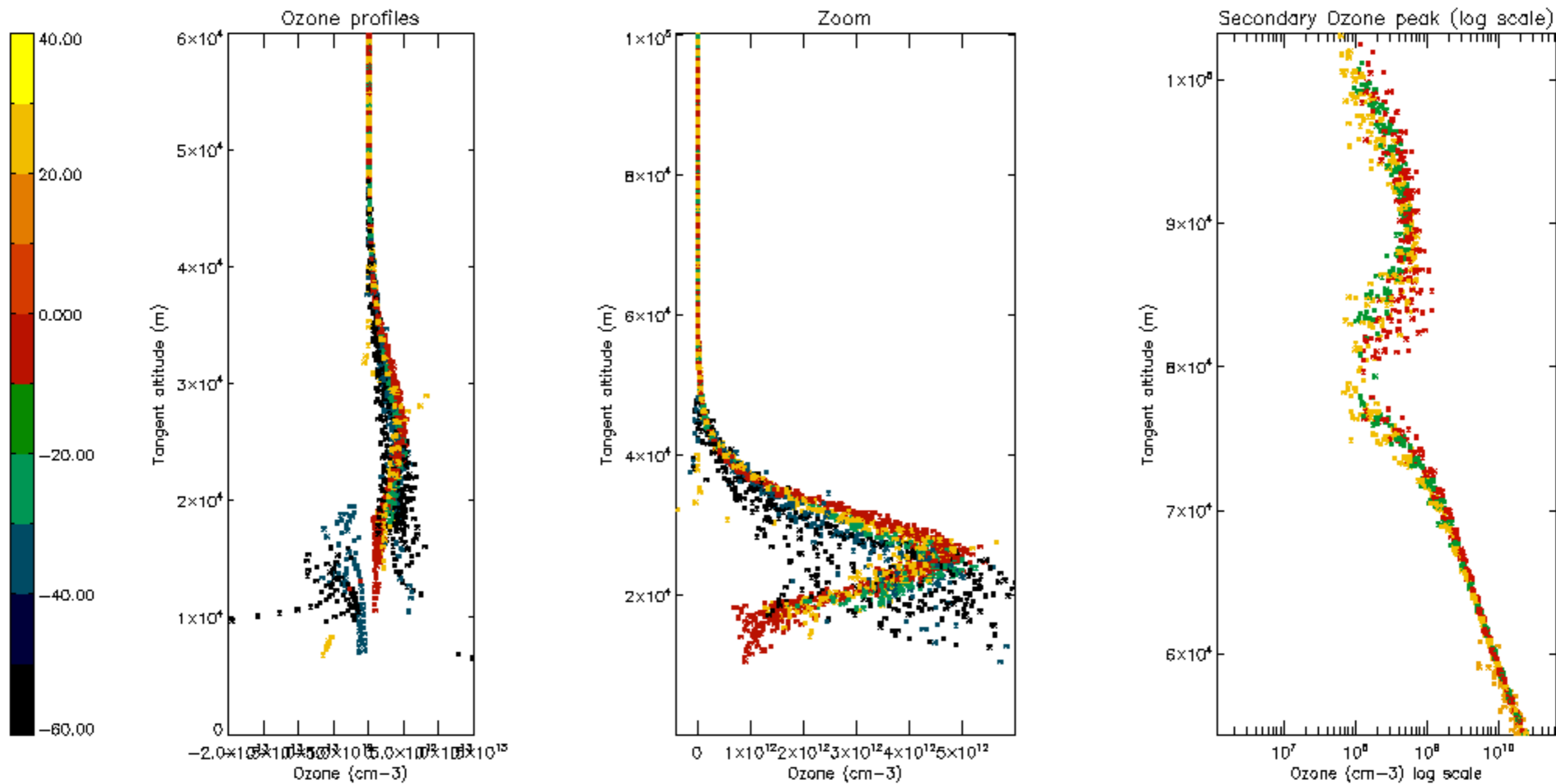
Percentage of star falling outside central band per profile

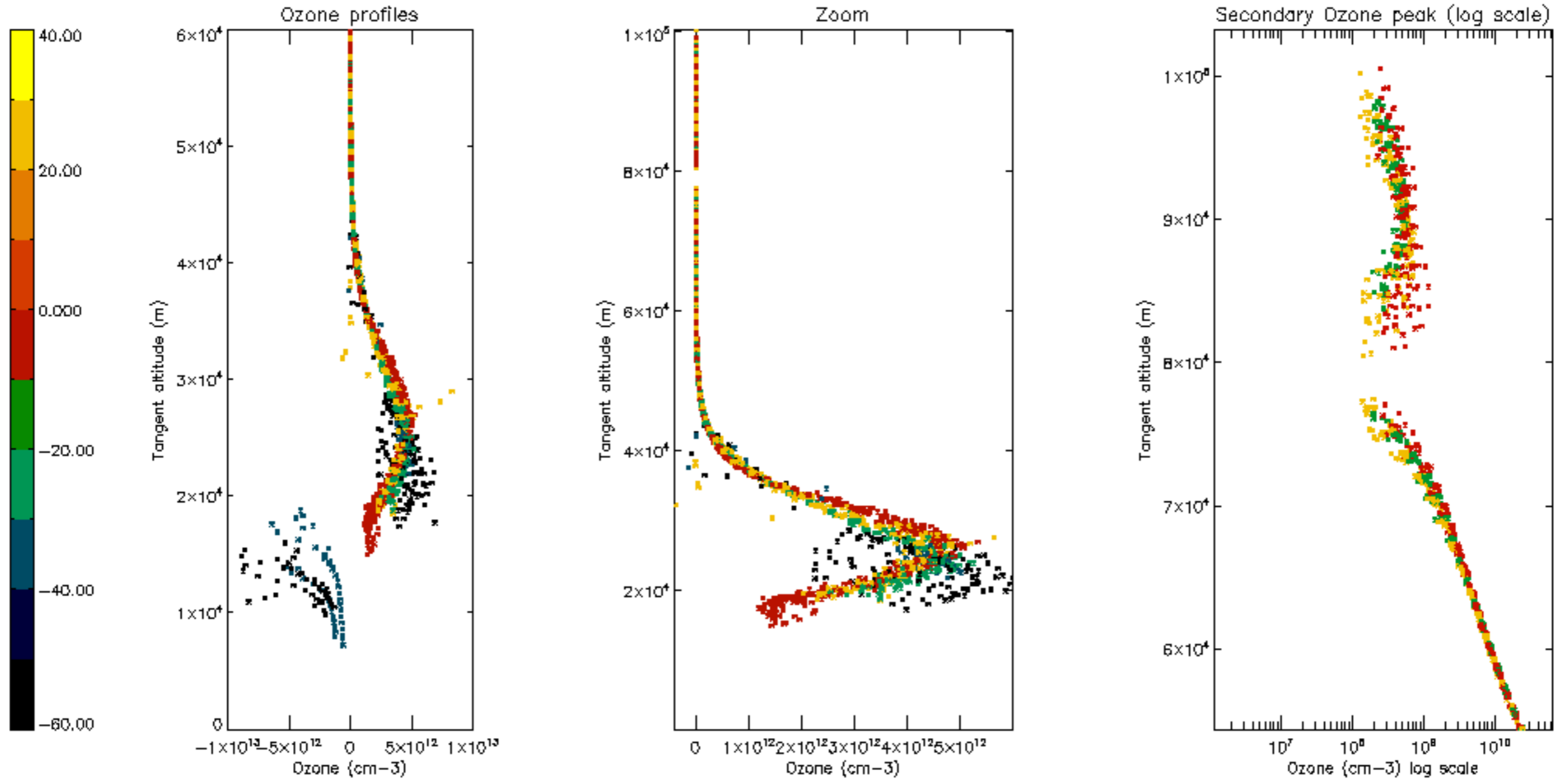


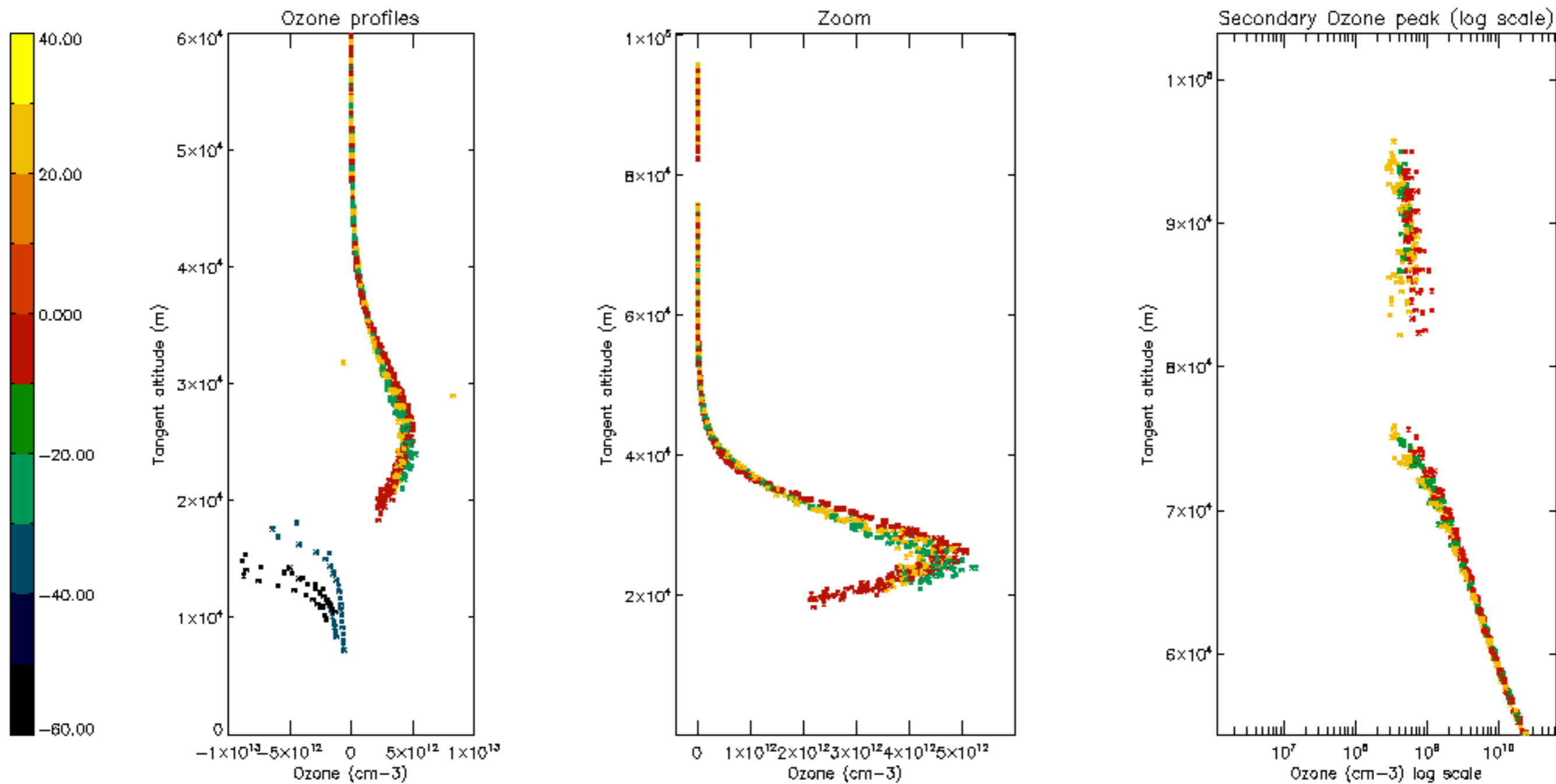
Percentage of saturation errors per profile

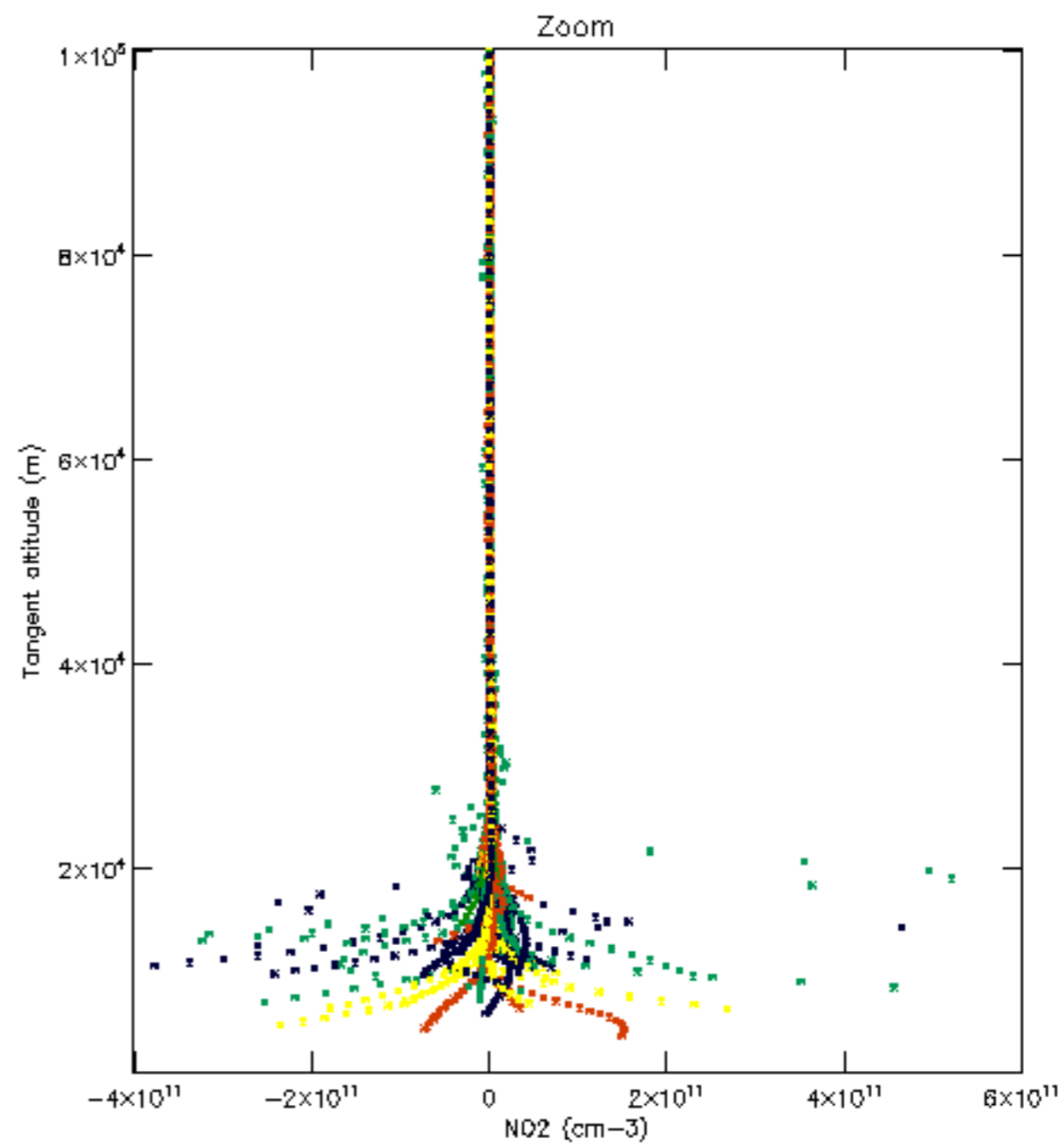
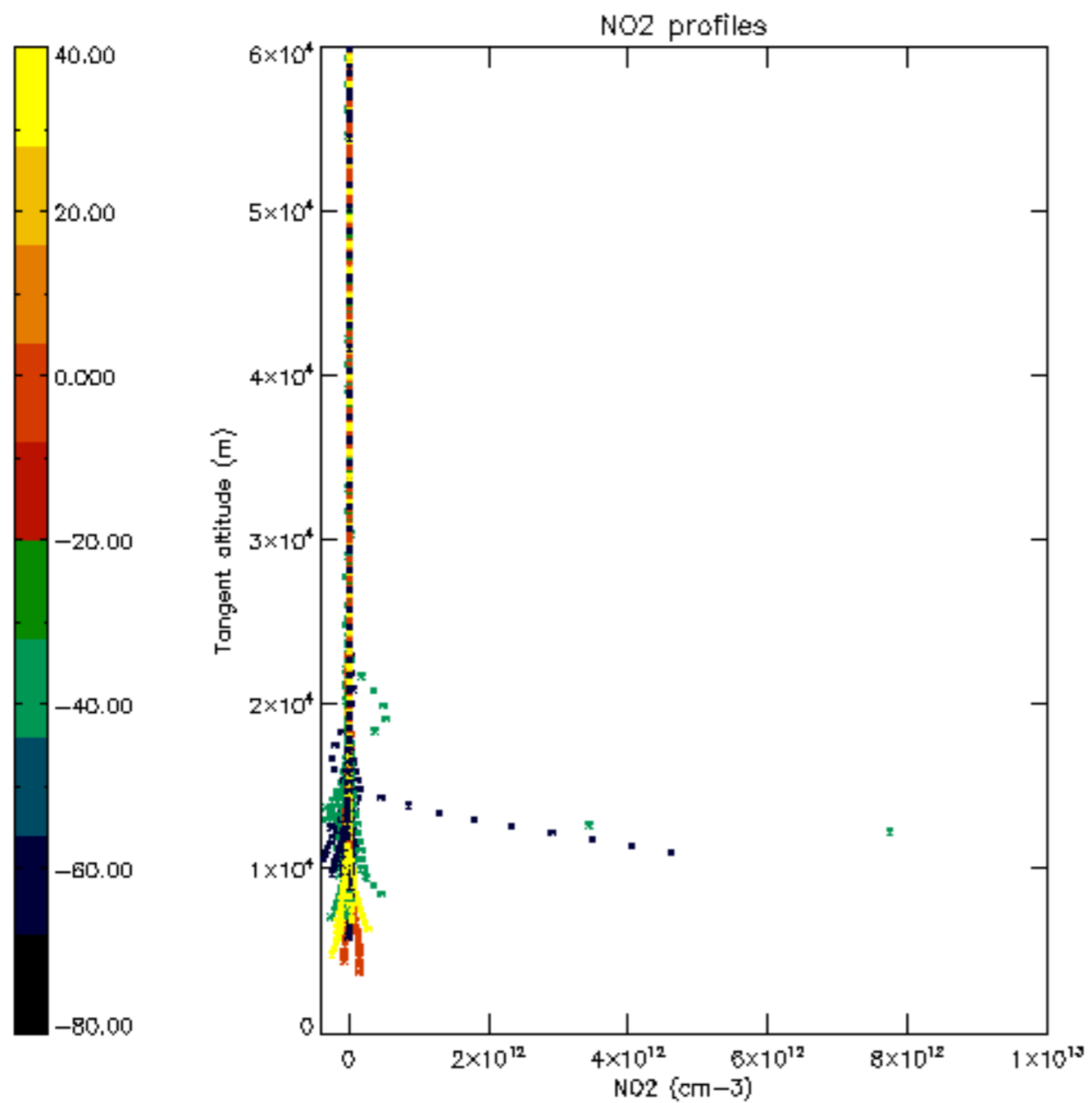


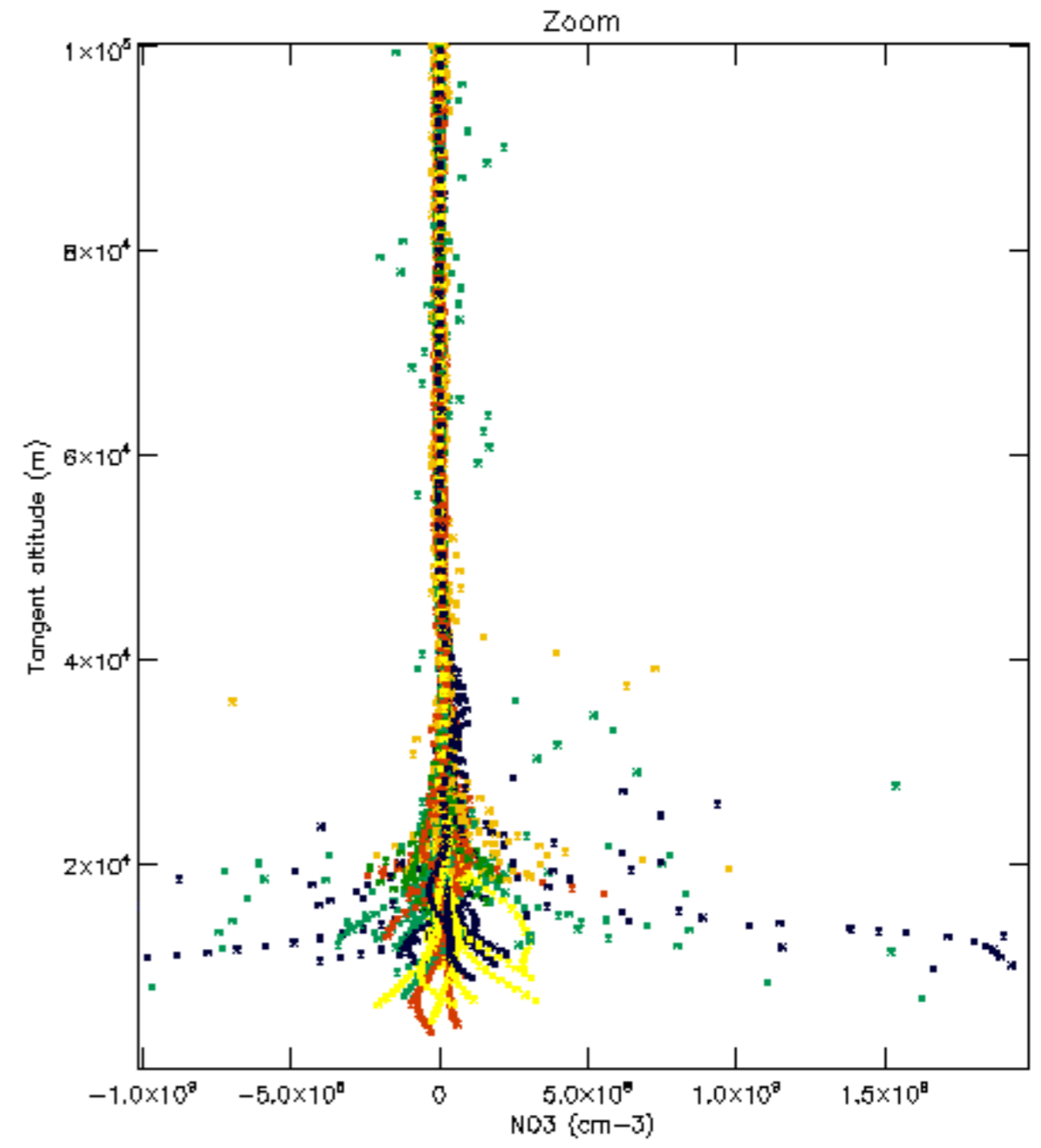
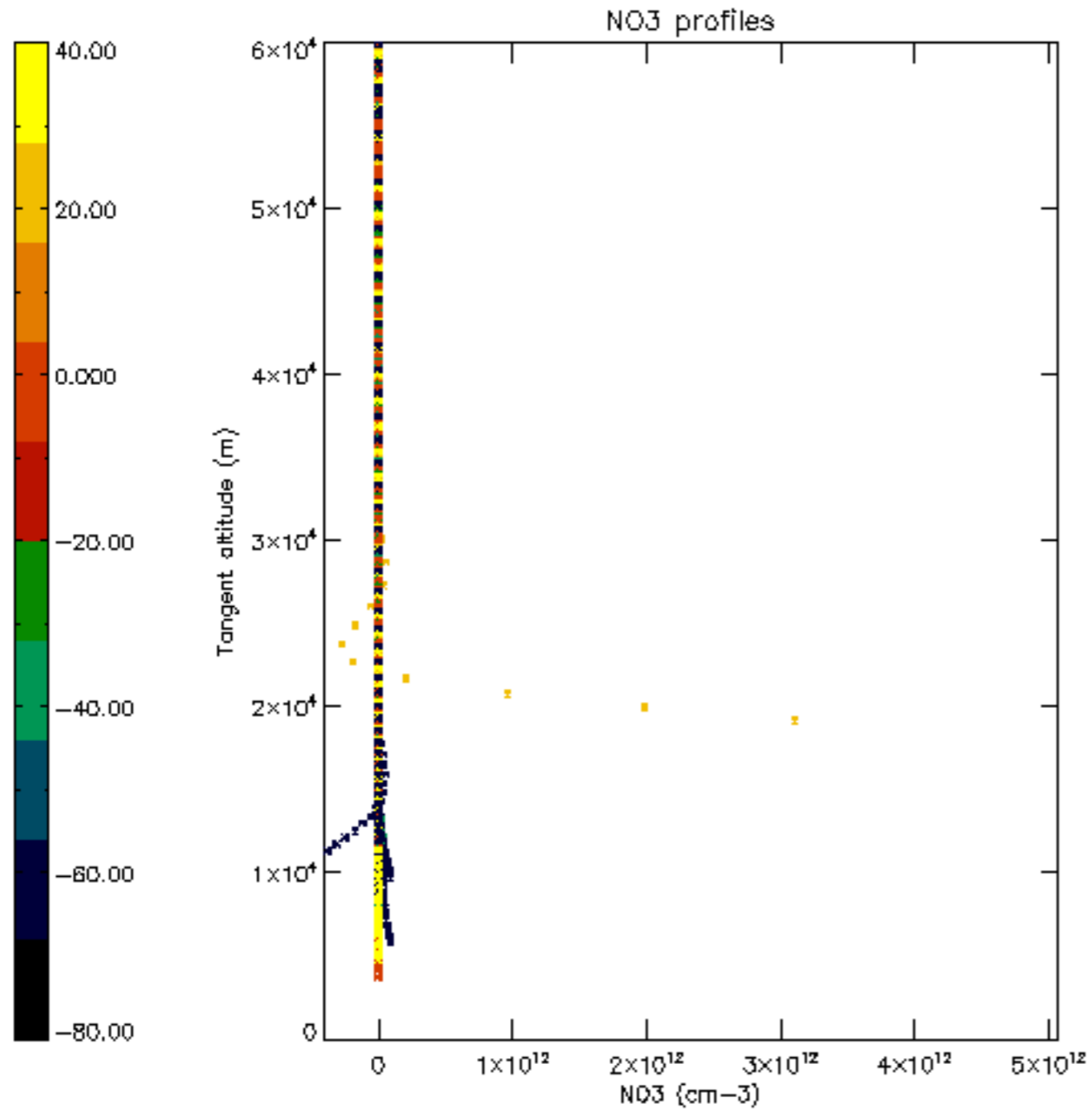


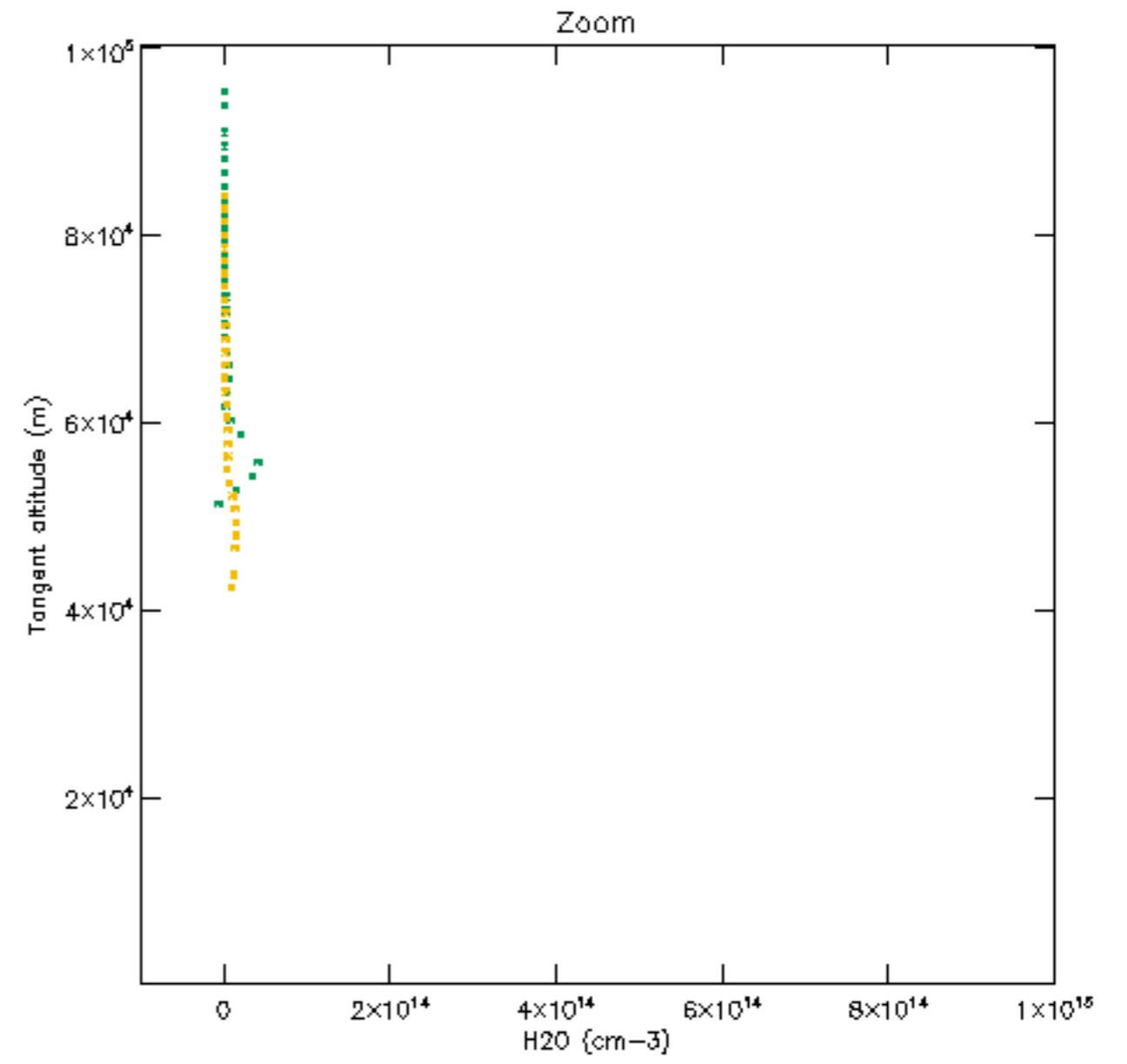
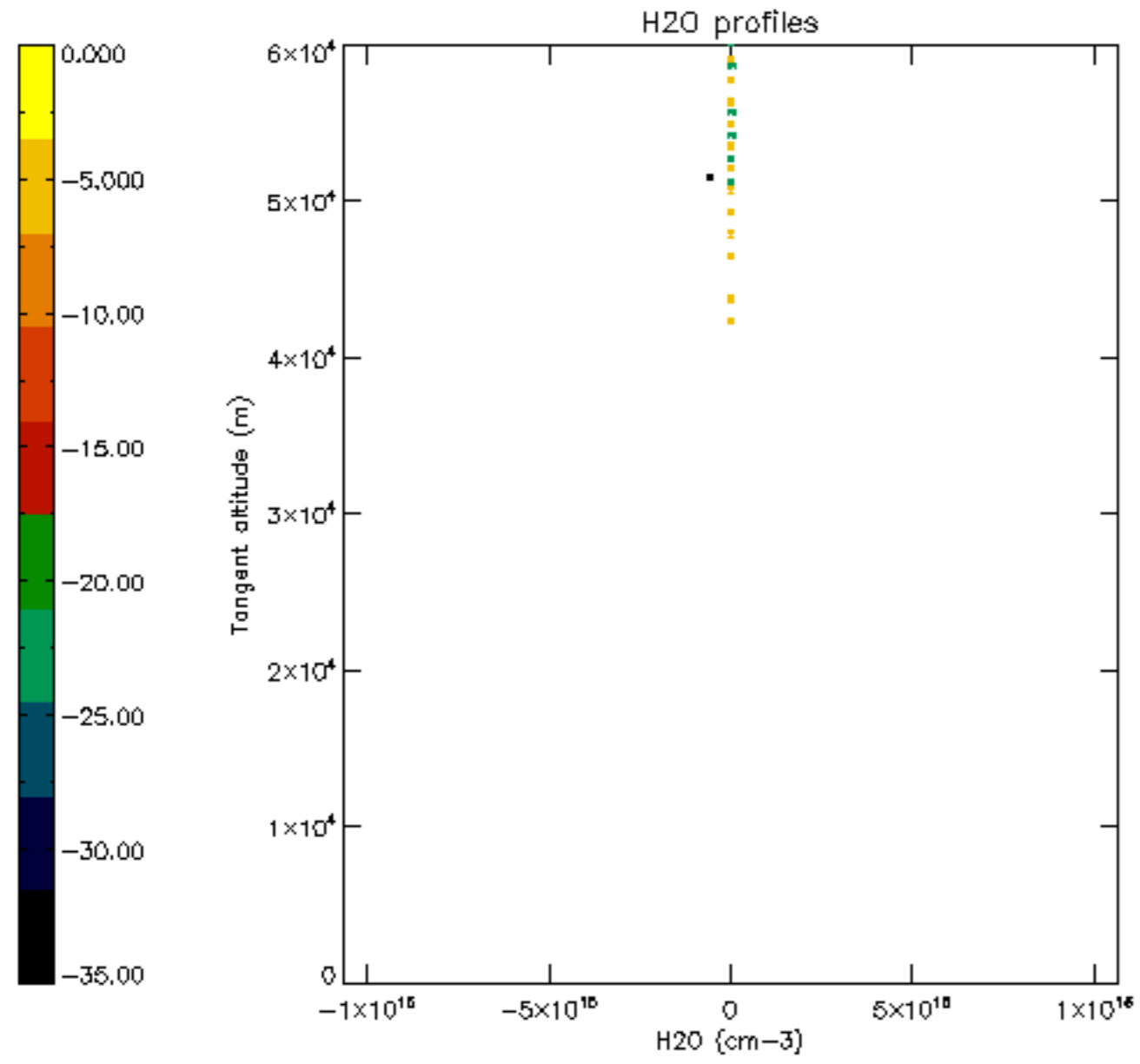


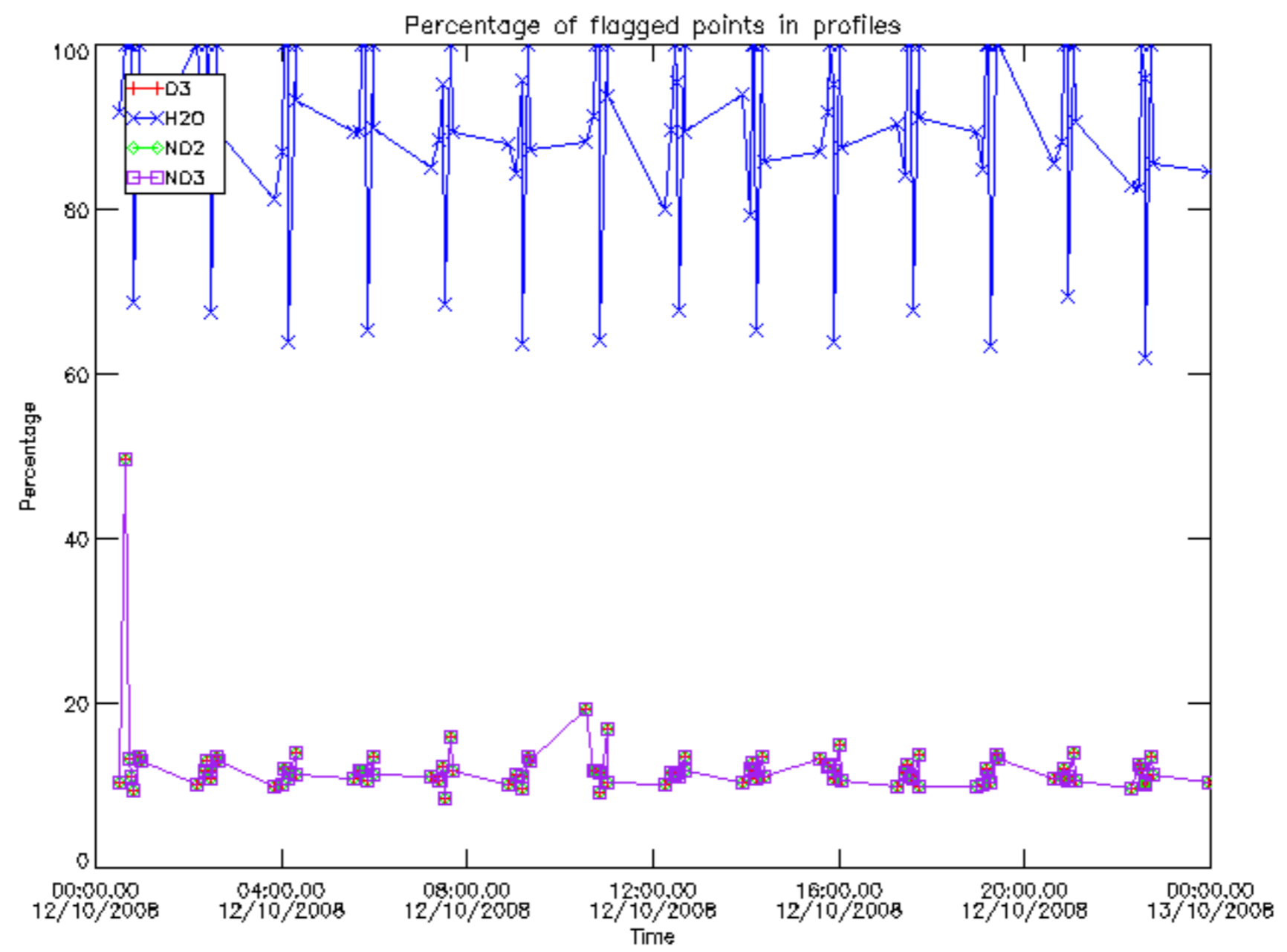




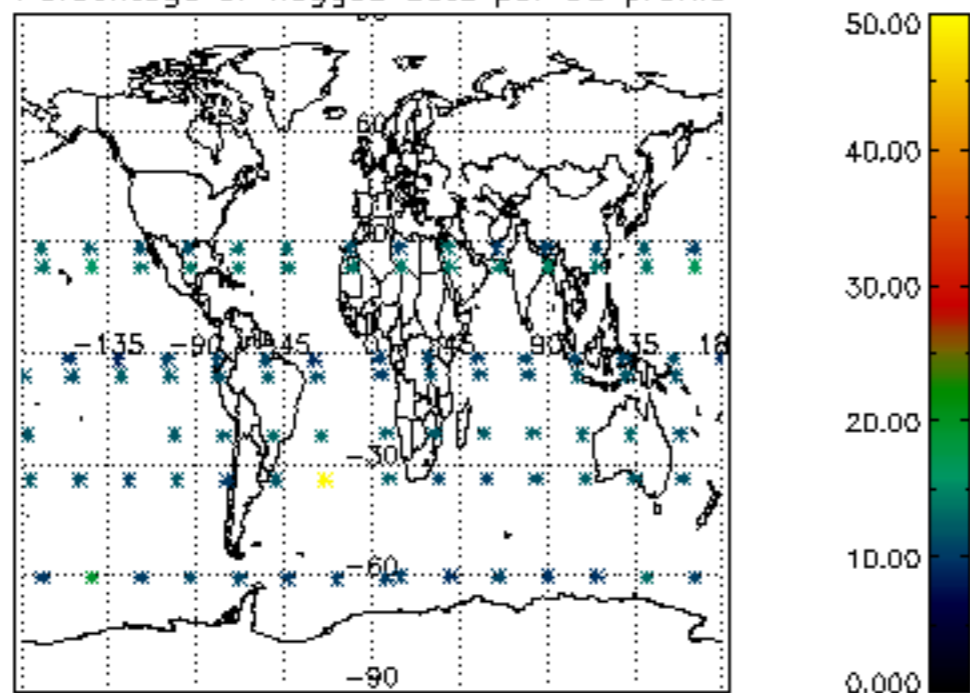




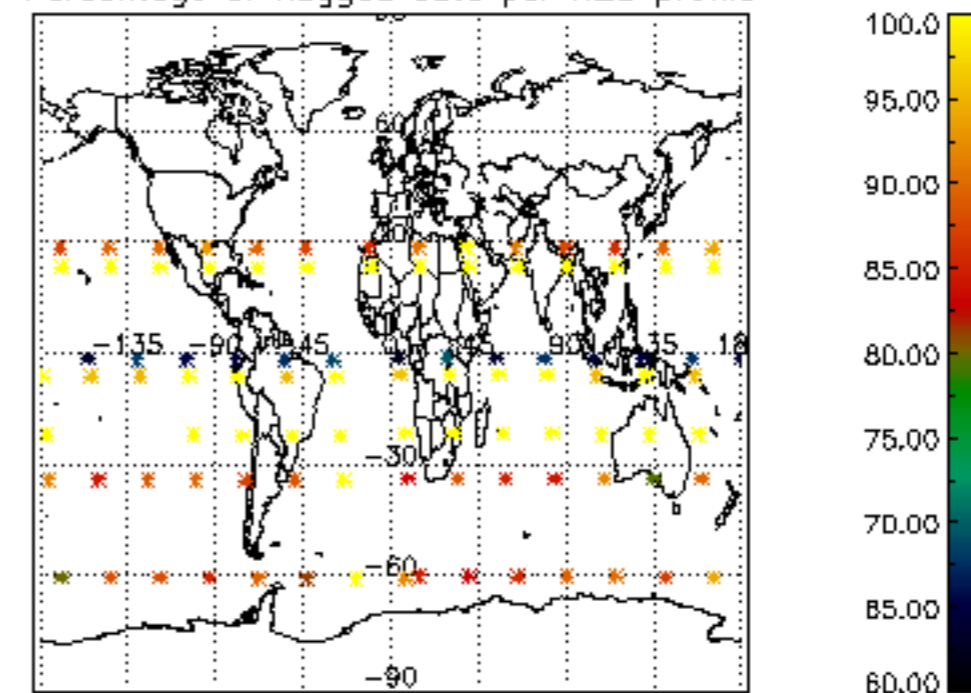




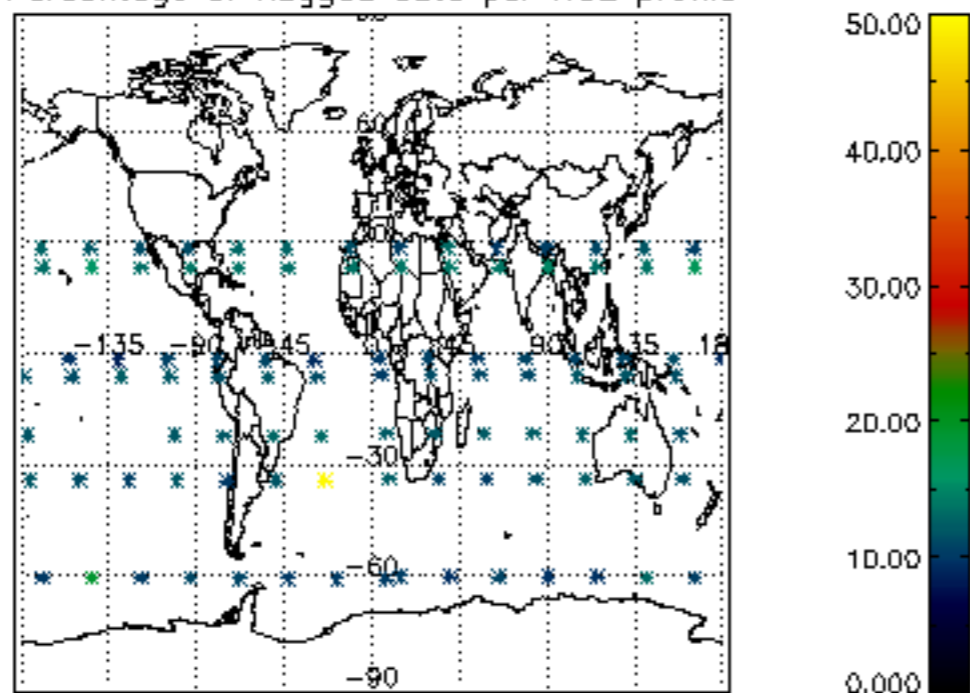
Percentage of flagged data per D3 profile



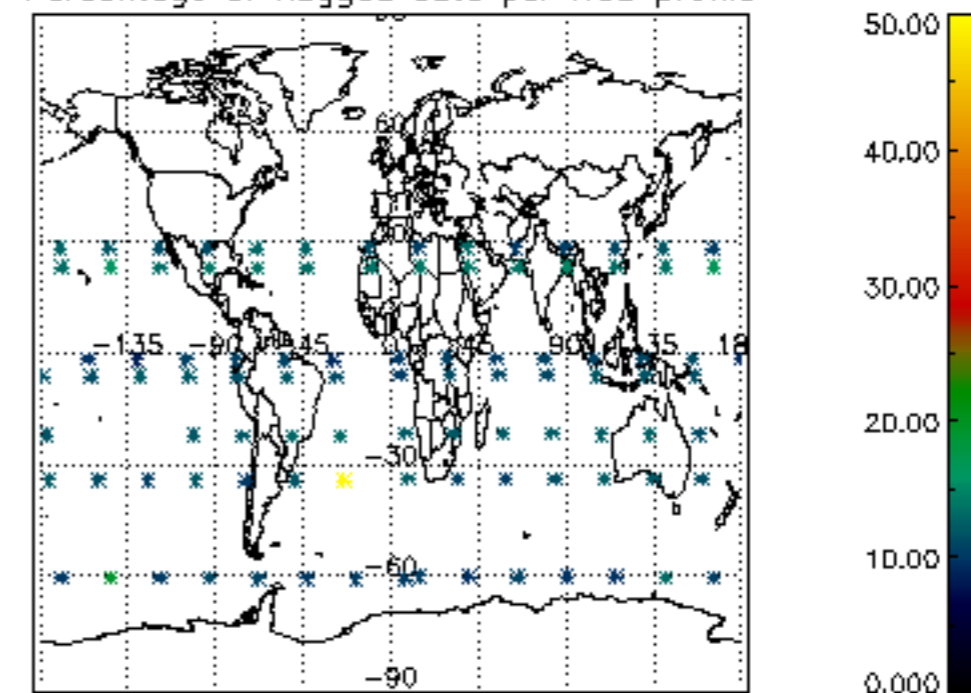
Percentage of flagged data per H2O profile

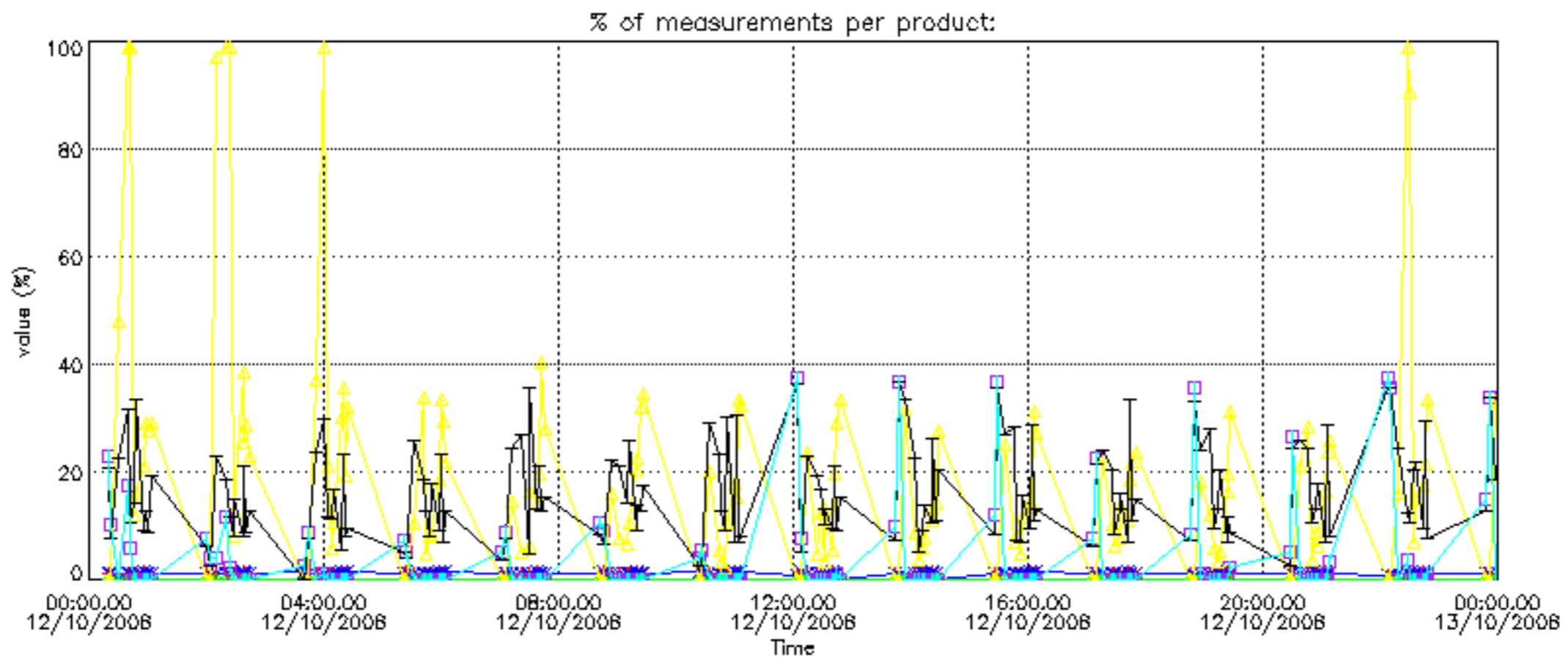
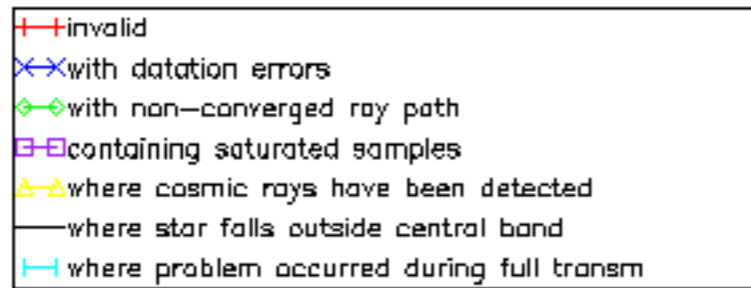


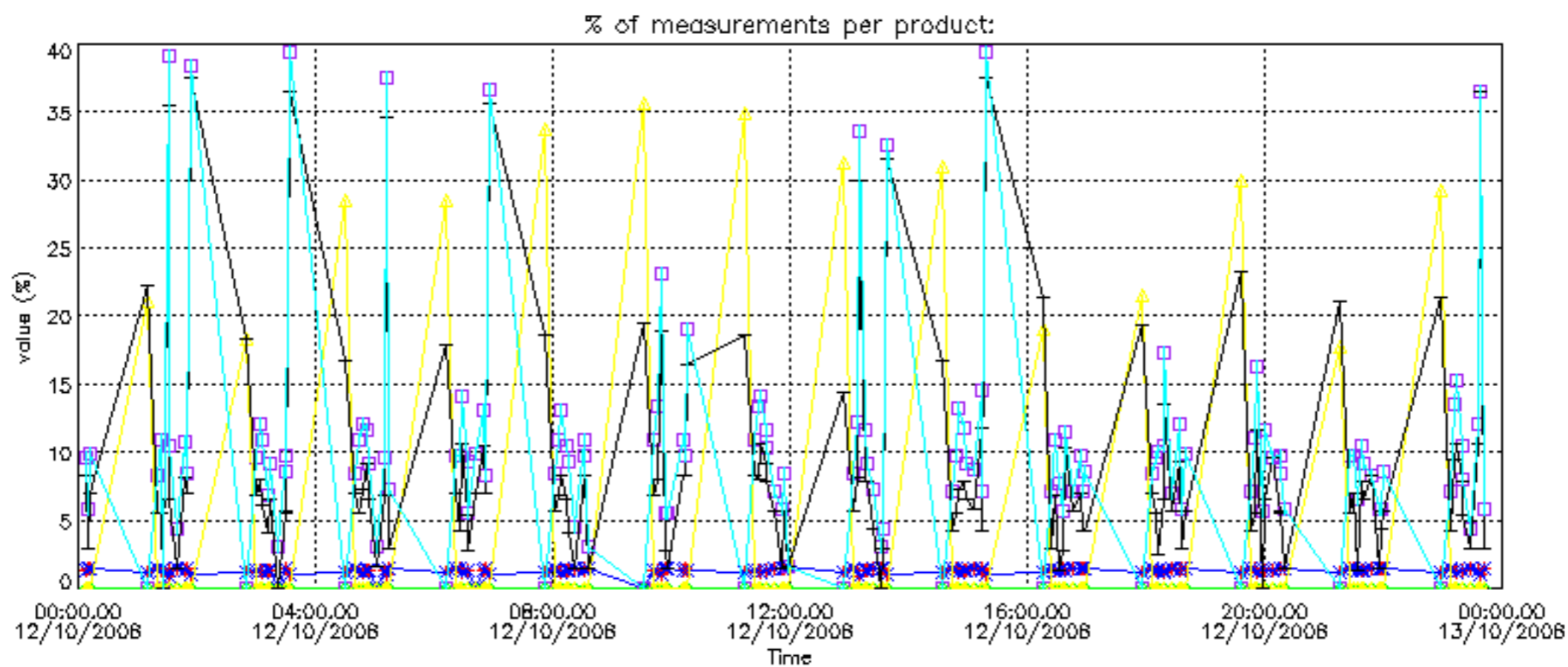
Percentage of flagged data per NO2 profile



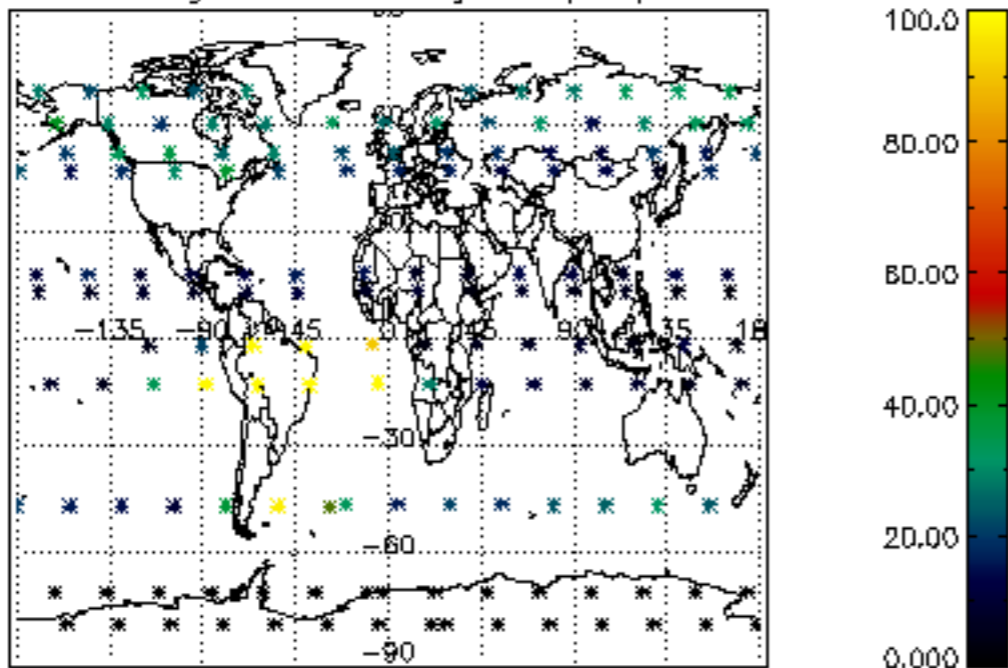
Percentage of flagged data per NO3 profile



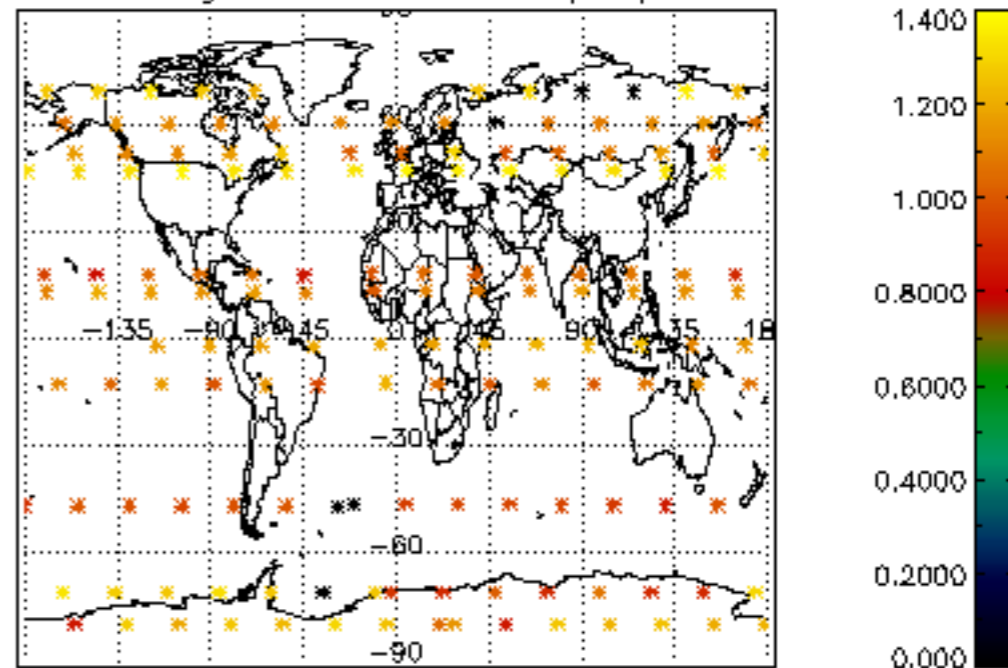




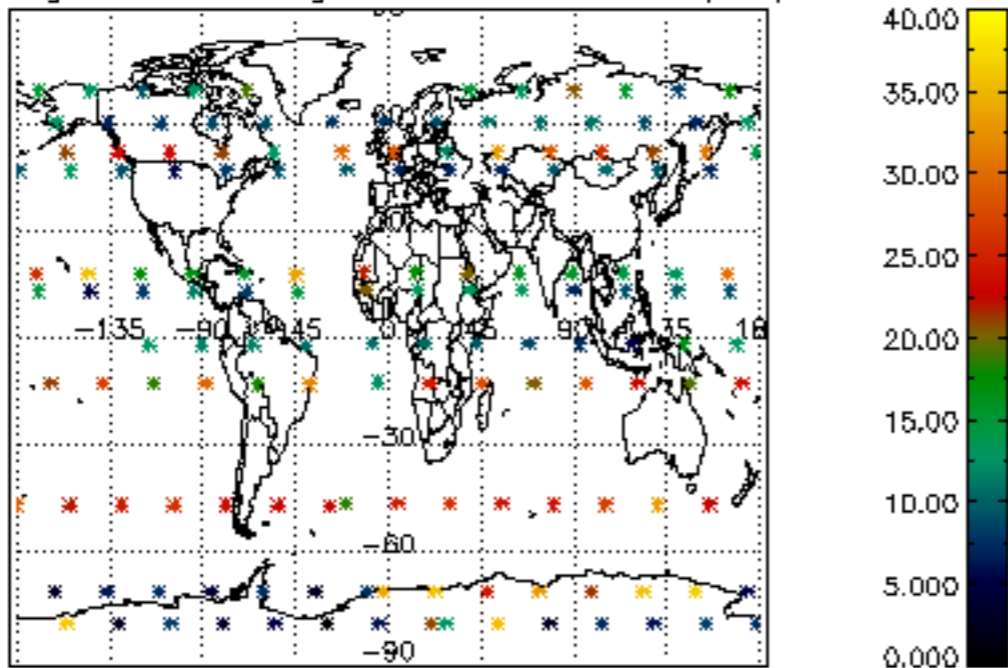
Percentage of cosmic ray hits per profile



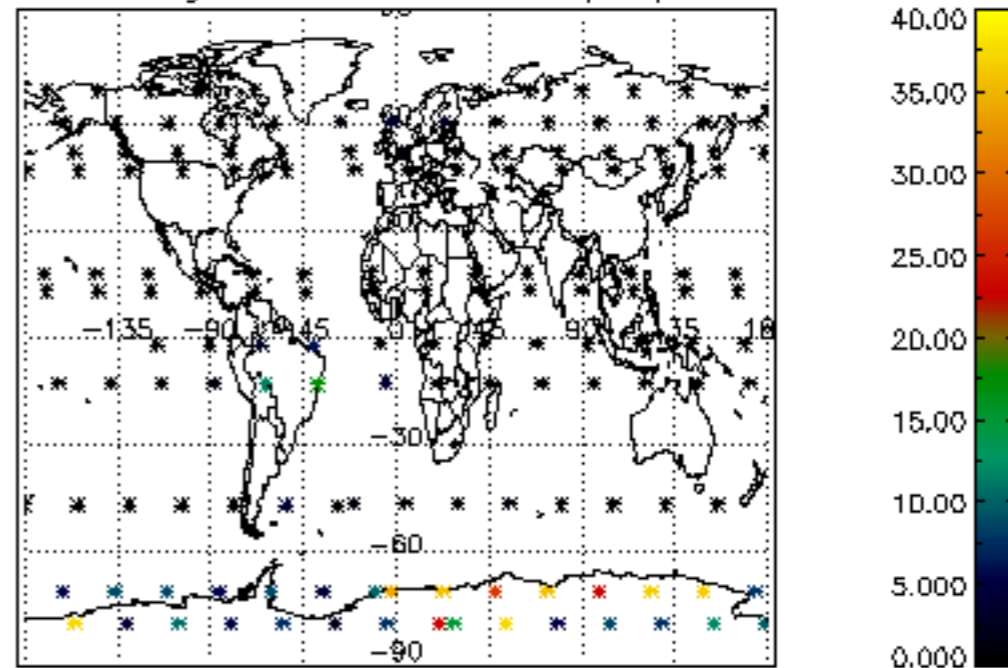
Percentage of datation errors per profile



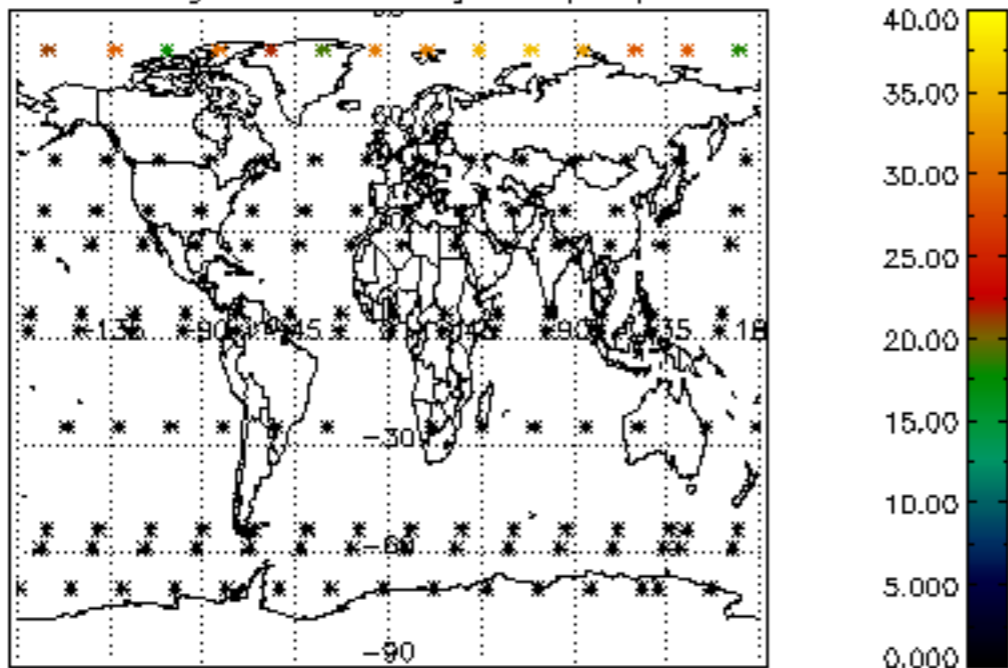
Percentage of star falling outside central band per profile



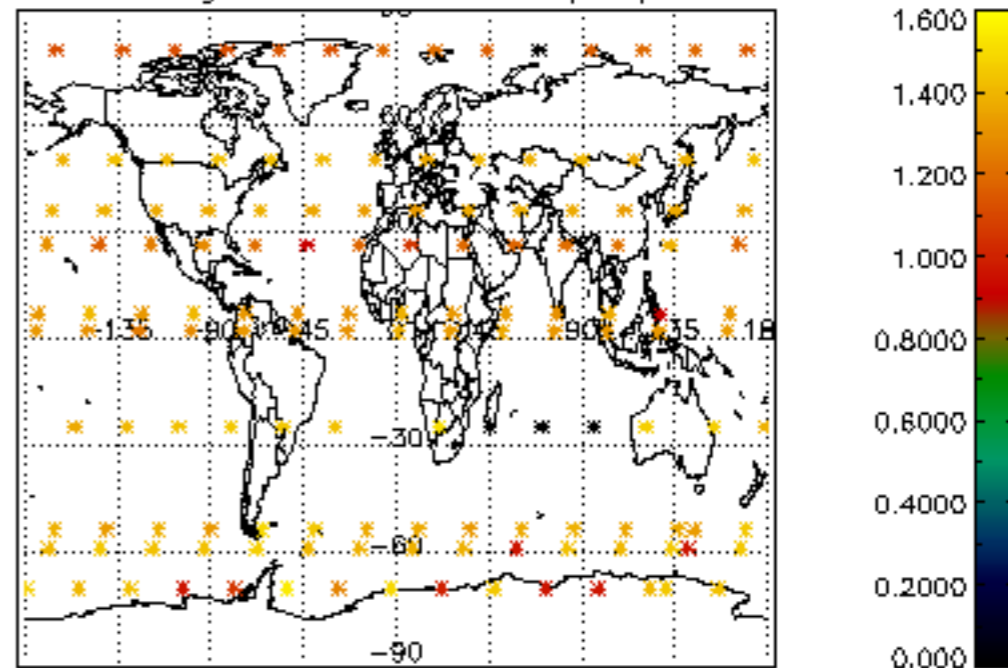
Percentage of saturation errors per profile



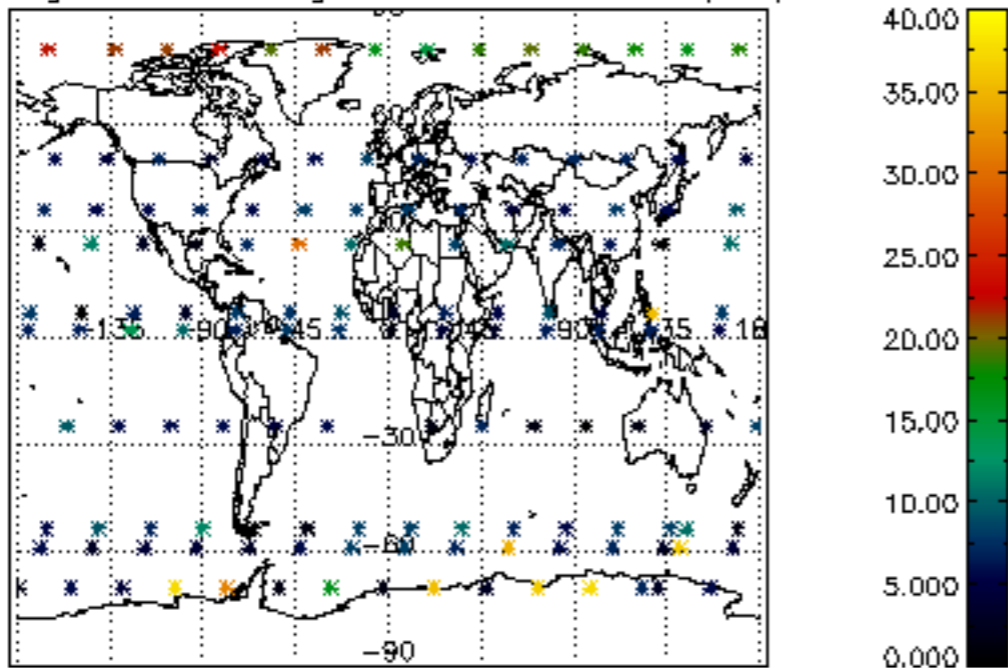
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

