

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Item	Value
Time of report generation	23APR2013 01:37:38
Data source version	GOMOS/6.01
Start time of products	23-08-2007 (23AUG2007 00:00:00)
Stop time of products	24-08-2007 (24AUG2007 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.

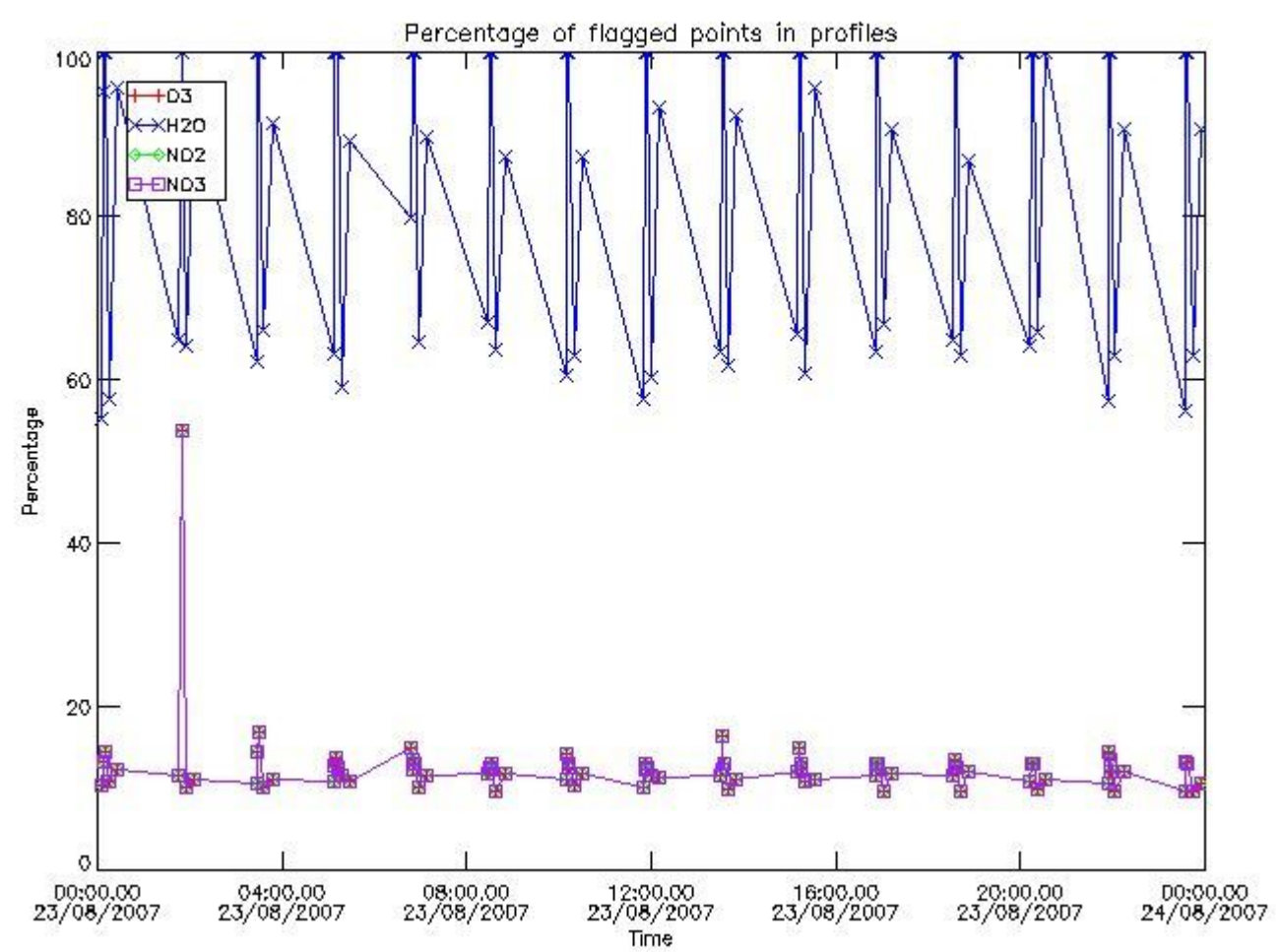
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070823_000522_000000542061_00030_28641_9805.N1	23-AUG-2007 00:05:22	Dark	54.000	1	9Alp CMa	-1.4400	11000.	108	28641	No
2	GOM_NL__2PRFIN20070823_000652_000000392061_00030_28641_9806.N1	23-AUG-2007 00:06:52	Dark	38.500	179	24Omi2CMa	3.0320	24000.	77	28641	No
3	GOM_NL__2PRFIN20070823_000820_000000422061_00030_28641_9807.N1	23-AUG-2007 00:08:20	Dark	42.000	23	21Eps CMa	1.5020	26000.	84	28641	No
4	GOM_NL__2PRFIN20070823_000937_000000392061_00030_28641_9808.N1	23-AUG-2007 00:09:37	Dark	38.500	177	1Zet CMa	3.0220	26000.	77	28641	No
5	GOM_NL__2PRFIN20070823_001510_000000472061_00030_28641_9809.N1	23-AUG-2007 00:15:10	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	28641	No
6	GOM_NL__2PRFIN20070823_002612_000000462061_00031_28642_9808.N1	23-AUG-2007 00:26:12	Dark	45.500	9	Alp Eri	0.45300	24000.	91	28642	No
7	GOM_NL__2PRFIN20070823_003124_000000402061_00031_28642_9809.N1	23-AUG-2007 00:31:24	Straylight	40.000	148	Alp Tuc	2.8780	4100.0	80	28642	No
8	GOM_NL__2PRFIN20070823_003501_000000412061_00031_28642_9810.N1	23-AUG-2007 00:35:01	Straylight	40.500	31	Alp Gru	1.7340	15200.	81	28642	No
9	GOM_NL__2PRFIN20070823_003755_000000392061_00031_28642_9811.N1	23-AUG-2007 00:37:55	Straylight	38.500	172	Gam Gru	3.0030	13100.	77	28642	No
10	GOM_NL__2PRFIN20070823_005904_000000382061_00031_28642_9812.N1	23-AUG-2007 00:59:04	Bright	38.000	92	53Eps Cyg	2.5000	4500.0	76	28642	No
11	GOM_NL__2PRFIN20070823_010047_000000372061_00031_28642_9813.N1	23-AUG-2007 01:00:47	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	28642	No
12	GOM_NL__2PRFIN20070823_010215_000000352061_00031_28642_9814.N1	23-AUG-2007 01:02:15	Bright	35.000	144	18Del Cyg	2.8600	11000.	70	28642	No
13	GOM_NL__2PRFIN20070823_010729_000000382061_00031_28642_9815.N1	23-AUG-2007 01:07:29	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	28642	No
14	GOM_NL__2PRFIN20070823_011451_000000342061_00031_28642_9816.N1	23-AUG-2007 01:14:51	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	28642	No
15	GOM_NL__2PRFIN20070823_013127_000000342061_00031_28642_9817.N1	23-AUG-2007 01:31:27	Bright	34.000	24	66Alp Gem	1.5800	10200.	68	28642	No
16	GOM_NL__2PRFIN20070823_013357_000000402061_00031_28642_9818.N1	23-AUG-2007 01:33:57	Bright	40.000	170	27Eps Gem	3.0000	9700.0	80	28642	No
17	GOM_NL__2PRFIN20070823_014558_000000452061_00031_28642_9819.N1	23-AUG-2007 01:45:58	Dark	44.500	1	9Alp CMa	-1.4400	11000.	89	28642	No
18	GOM_NL__2PRFIN20070823_014856_000000422061_00031_28642_9820.N1	23-AUG-2007 01:48:56	Dark	41.500	23	21Eps CMa	1.5020	26000.	83	28642	No
19	GOM_NL__2PRFIN20070823_015546_000000512061_00031_28642_9821.N1	23-AUG-2007 01:55:46	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	28642	No
20	GOM_NL__2PRFIN20070823_020649_000000462061_00032_28643_9813.N1	23-AUG-2007 02:06:49	Dark	46.000	9	Alp Eri	0.45300	24000.	92	28643	No
21	GOM_NL__2PRFIN20070823_021200_000000472061_00032_28643_9814.N1	23-AUG-2007 02:12:00	Straylight	46.500	148	Alp Tuc	2.8780	4100.0	93	28643	No
22	GOM_NL__2PRFIN20070823_021537_000000402061_00032_28643_9815.N1	23-AUG-2007 02:15:37	Straylight	39.500	31	Alp Gru	1.7340	15200.	79	28643	No
23	GOM_NL__2PRFIN20070823_021831_000000402061_00032_28643_9816.N1	23-AUG-2007 02:18:31	Straylight	39.500	172	Gam Gru	3.0030	13100.	79	28643	No
24	GOM_NL__2PRFIN20070823_023940_000000382061_00032_28643_9817.N1	23-AUG-2007 02:39:40	Bright	38.000	92	53Eps Cyg	2.5000	4500.0	76	28643	No
25	GOM_NL__2PRFIN20070823_024123_000000342061_00032_28643_9818.N1	23-AUG-2007 02:41:23	Bright	34.000	66	37Gam Cyg	2.2080	5900.0	68	28643	No
26	GOM_NL__2PRFIN20070823_024251_000000342061_00032_28643_9819.N1	23-AUG-2007 02:42:51	Bright	34.000	144	18Del Cyg	2.8600	11000.	68	28643	No
27	GOM_NL__2PRFIN20070823_024805_000000372061_00032_28643_9820.N1	23-AUG-2007 02:48:05	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	28643	No
28	GOM_NL__2PRFIN20070823_025527_000000342061_00032_28643_9821.N1	23-AUG-2007 02:55:27	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	28643	No
29	GOM_NL__2PRFIN20070823_031203_000000352061_00032_28643_9822.N1	23-AUG-2007 03:12:03	Bright	35.000	24	66Alp Gem	1.5800	10200.	70	28643	No
30	GOM_NL__2PRFIN20070823_031433_000000422061_00032_28643_9823.N1	23-AUG-2007 03:14:33	Bright	42.000	170	27Eps Gem	3.0000	9700.0	84	28643	No
31	GOM_NL__2PRFIN20070823_032635_000000482061_00032_28643_9824.N1	23-AUG-2007 03:26:35	Dark	48.000	1	9Alp CMa	-1.4400	11000.	96	28643	No
32	GOM_NL__2PRFIN20070823_032805_000000392061_00032_28643_9825.N1	23-AUG-2007 03:28:05	Dark	39.000	179	24Omi2CMa	3.0320	24000.	78	28643	No
33	GOM_NL__2PRFIN20070823_032932_000000422061_00032_28643_9826.N1	23-AUG-2007 03:29:32	Dark	42.000	23	21Eps CMa	1.5020	26000.	84	28643	No
34	GOM_NL__2PRFIN20070823_033622_000000512061_00032_28643_9827.N1	23-AUG-2007 03:36:22	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	28643	No
35	GOM_NL__2PRFIN20070823_034726_000000462061_00033_28644_9821.N1	23-AUG-2007 03:47:26	Dark	46.000	9	Alp Eri	0.45300	24000.	92	28644	No
36	GOM_NL__2PRFIN20070823_035237_000000382061_00033_28644_9822.N1	23-AUG-2007 03:52:37	Straylight	37.500	148	Alp Tuc	2.8780	4100.0	75	28644	No
37	GOM_NL__2PRFIN20070823_035613_000000392061_00033_28644_9823.N1	23-AUG-2007 03:56:13	Straylight	38.500	31	Alp Gru	1.7340	15200.	77	28644	No
38	GOM_NL__2PRFIN20070823_035908_000000392061_00033_28644_9824.N1	23-AUG-2007 03:59:08	Straylight	38.500	172	Gam Gru	3.0030	13100.	77	28644	No
39	GOM_NL__2PRFIN20070823_040846_000000302061_00033_28644_9825.N1	23-AUG-2007 04:08:46	Bright	30.000	154	22Bet Aqr	2.8990	5700.0	60	28644	No
40	GOM_NL__2PRFIN20070823_042016_000000382061_00033_28644_9826.N1	23-AUG-2007 04:20:16	Bright	38.000	92	53Eps Cyg	2.5000	4500.0	76	28644	No
41	GOM_NL__2PRFIN20070823_042159_000000352061_00033_28644_9827.N1	23-AUG-2007 04:21:59	Bright	35.000	66	37Gam Cyg	2.2080	5900.0	70	28644	No
42	GOM_NL__2PRFIN20070823_042328_000000352061_00033_28644_9828.N1	23-AUG-2007 04:23:28	Bright	34.500	144	18Del Cyg	2.8600	11000.	69	28644	No

220	GOM_NL__2PRFIN20070823_220301_000000532061_00043_28654_0020.N1	23-AUG-2007 22:03:01	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	28654	No
221	GOM_NL__2PRFIN20070823_221408_000000432061_00044_28655_0019.N1	23-AUG-2007 22:14:08	Dark	42.500	9	Alp Eri	0.45300	24000.	85	28655	No
222	GOM_NL__2PRFIN20070823_221915_000000392061_00044_28655_0020.N1	23-AUG-2007 22:19:15	Straylight	39.000	148	Alp Tuc	2.8780	4100.0	78	28655	No
223	GOM_NL__2PRFIN20070823_222252_000000422061_00044_28655_0021.N1	23-AUG-2007 22:22:52	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	28655	No
224	GOM_NL__2PRFIN20070823_222546_000000392061_00044_28655_0022.N1	23-AUG-2007 22:25:46	Straylight	38.500	172	Gam Gru	3.0030	13100.	77	28655	No
225	GOM_NL__2PRFIN20070823_223205_000000402061_00044_28655_0023.N1	23-AUG-2007 22:32:05	Bright	40.000	142	49Del Cap	2.8500	8900.0	80	28655	No
226	GOM_NL__2PRFIN20070823_223522_000000402061_00044_28655_0024.N1	23-AUG-2007 22:35:22	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	28655	No
227	GOM_NL__2PRFIN20070823_224650_000000362061_00044_28655_0025.N1	23-AUG-2007 22:46:50	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	28655	No
228	GOM_NL__2PRFIN20070823_224834_000000342061_00044_28655_0026.N1	23-AUG-2007 22:48:34	Bright	34.000	66	37Gam Cyg	2.2080	5900.0	68	28655	No
229	GOM_NL__2PRFIN20070823_225002_000000372061_00044_28655_0027.N1	23-AUG-2007 22:50:02	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	28655	No
230	GOM_NL__2PRFIN20070823_225514_000000382061_00044_28655_0028.N1	23-AUG-2007 22:55:14	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	28655	No
231	GOM_NL__2PRFIN20070823_230238_000000372061_00044_28655_0029.N1	23-AUG-2007 23:02:38	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	28655	No
232	GOM_NL__2PRFIN20070823_231916_000000352061_00044_28655_0030.N1	23-AUG-2007 23:19:16	Bright	34.500	24	66Alp Gem	1.5800	10200.	69	28655	No
233	GOM_NL__2PRFIN20070823_233351_000000532061_00044_28655_0031.N1	23-AUG-2007 23:33:51	Dark	53.000	1	9Alp CMa	-1.4400	11000.	106	28655	No
234	GOM_NL__2PRFIN20070823_233520_000000392061_00044_28655_0032.N1	23-AUG-2007 23:35:20	Dark	38.500	179	24Omi2CMa	3.0320	24000.	77	28655	No
235	GOM_NL__2PRFIN20070823_233648_000000402061_00044_28655_0033.N1	23-AUG-2007 23:36:48	Dark	39.500	23	21Eps CMa	1.5020	26000.	79	28655	No
236	GOM_NL__2PRFIN20070823_234337_000000532061_00044_28655_0034.N1	23-AUG-2007 23:43:37	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	28655	No
237	GOM_NL__2PRFIN20070823_235445_000000482061_00045_28656_0028.N1	23-AUG-2007 23:54:45	Dark	48.000	9	Alp Eri	0.45300	24000.	96	28656	No
238	GOM_NL__2PRFIN20070823_235951_000000382061_00045_28656_0029.N1	23-AUG-2007 23:59:51	Straylight	38.000	148	Alp Tuc	2.8780	4100.0	76	28656	No

3. Quality information per product

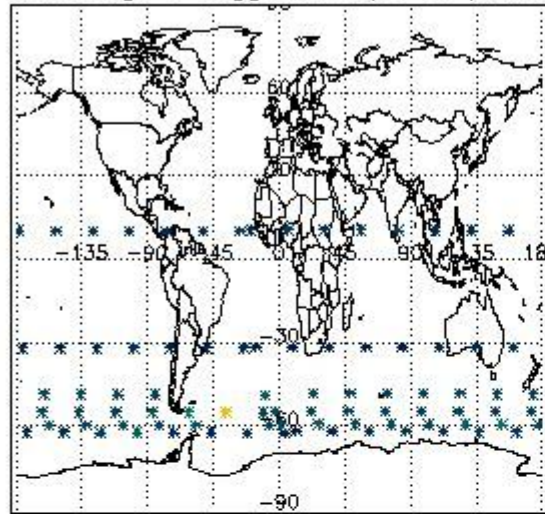
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

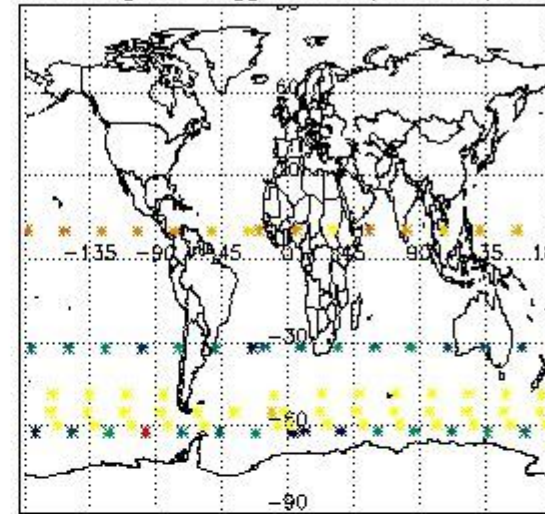


3.2 Plot quality information per product (world map)

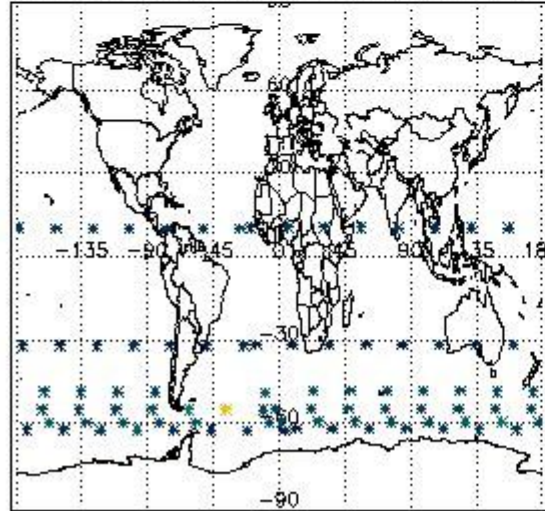
Percentage of flagged data per O3 profile



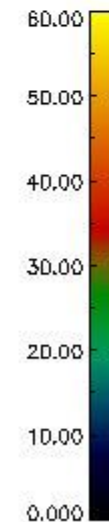
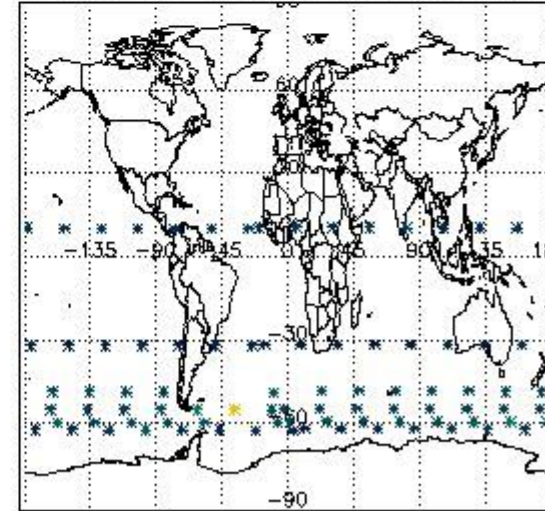
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

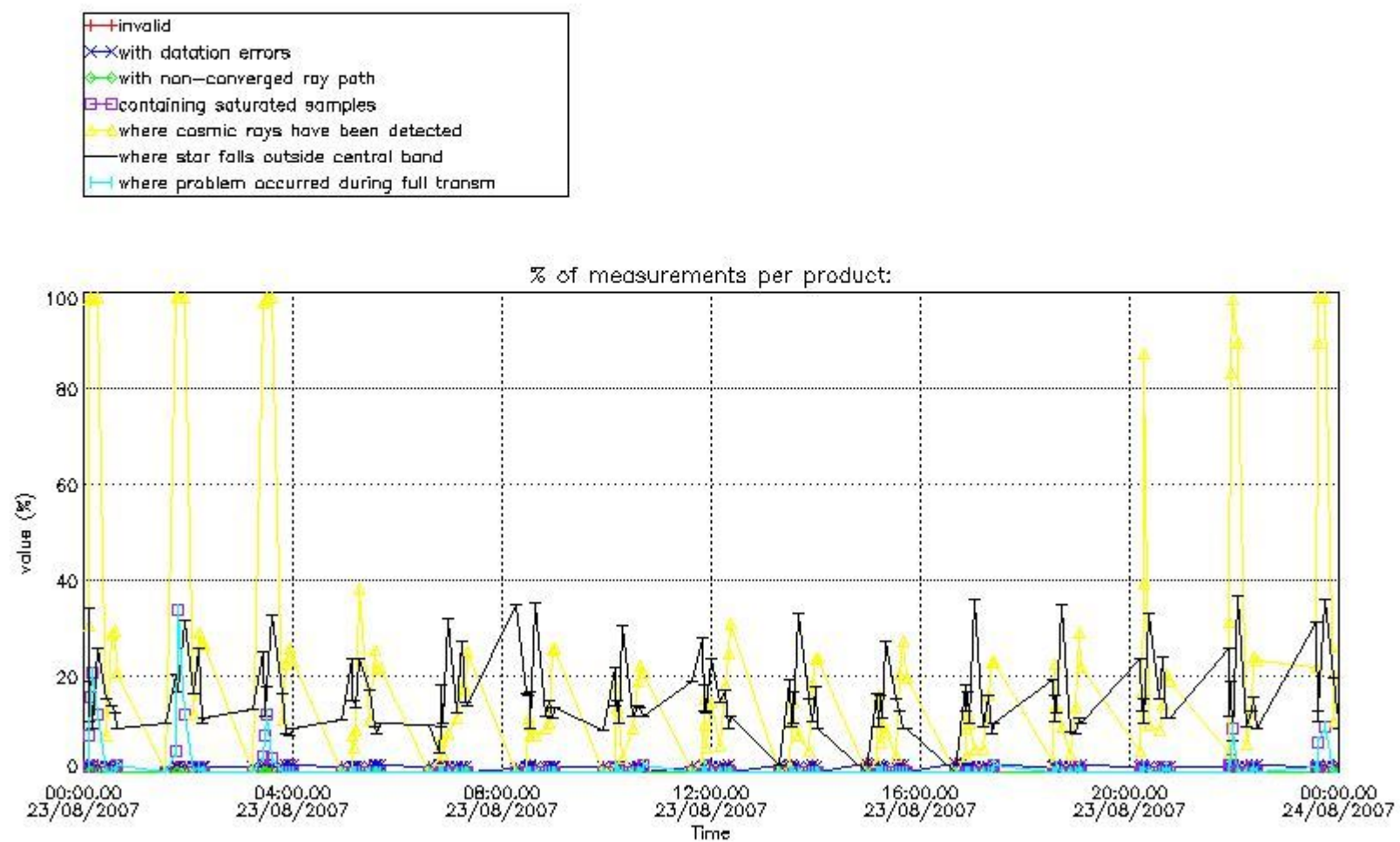


4. Level 1 quality information per product

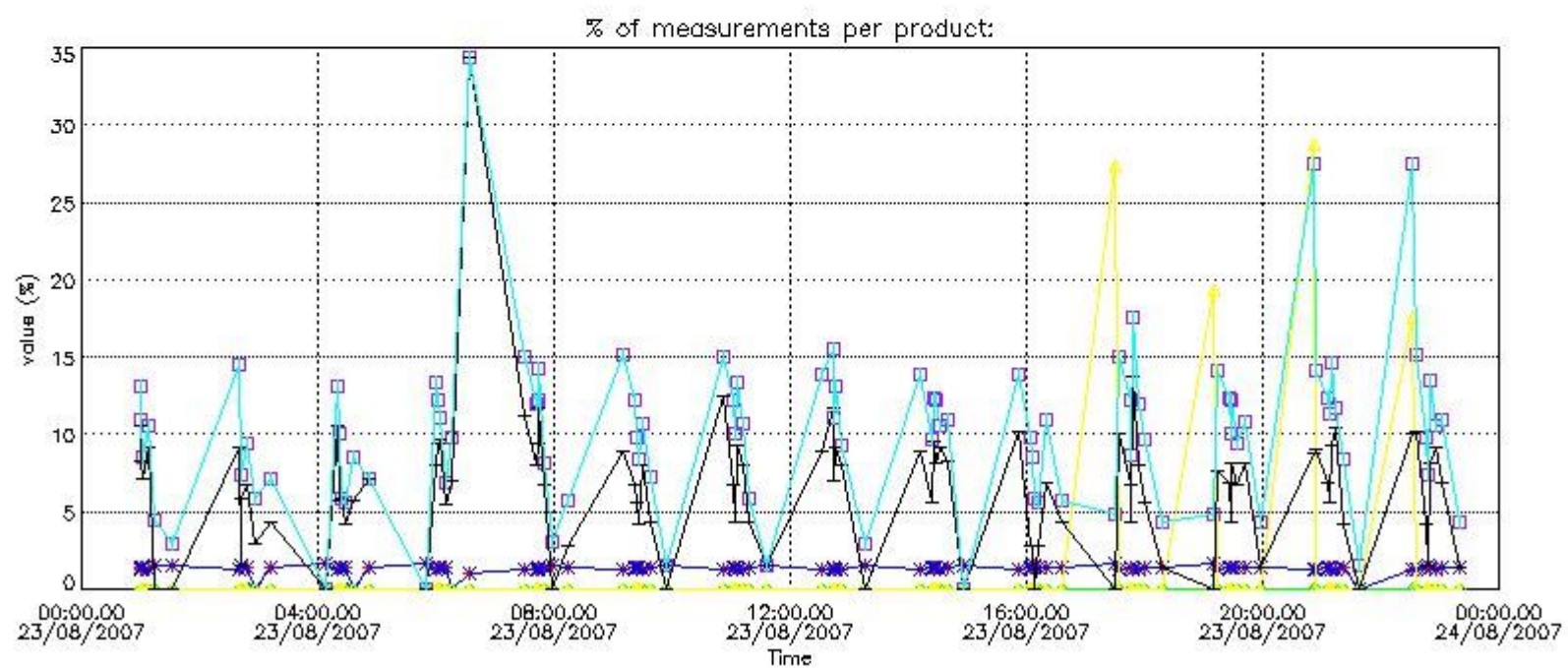
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

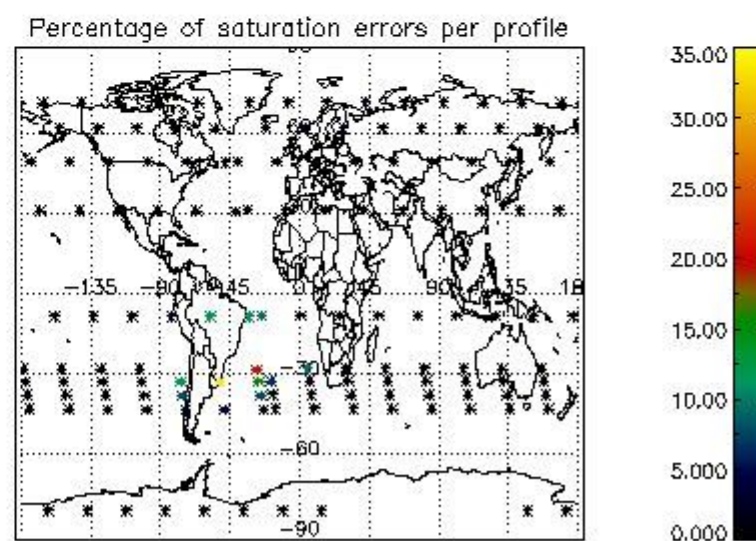
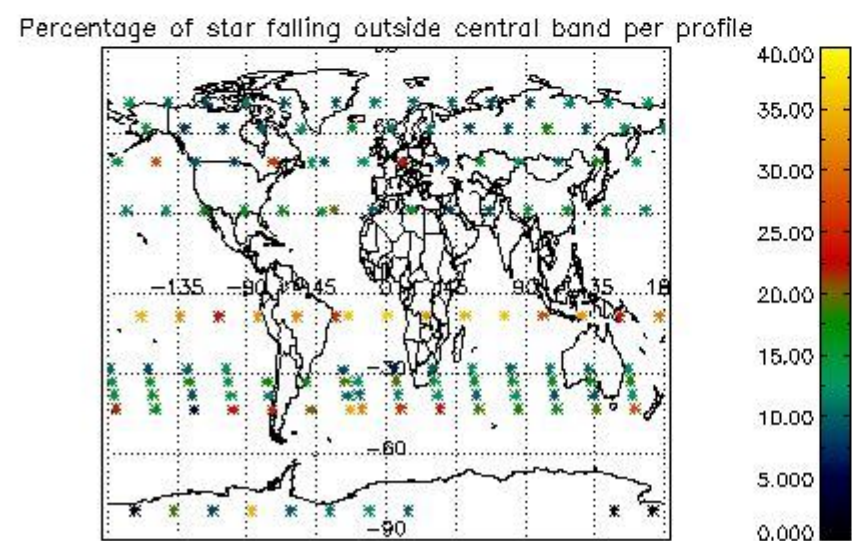
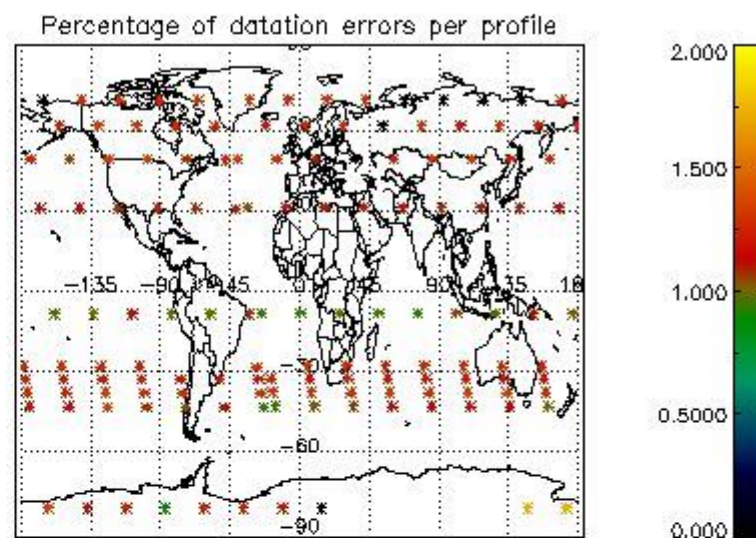
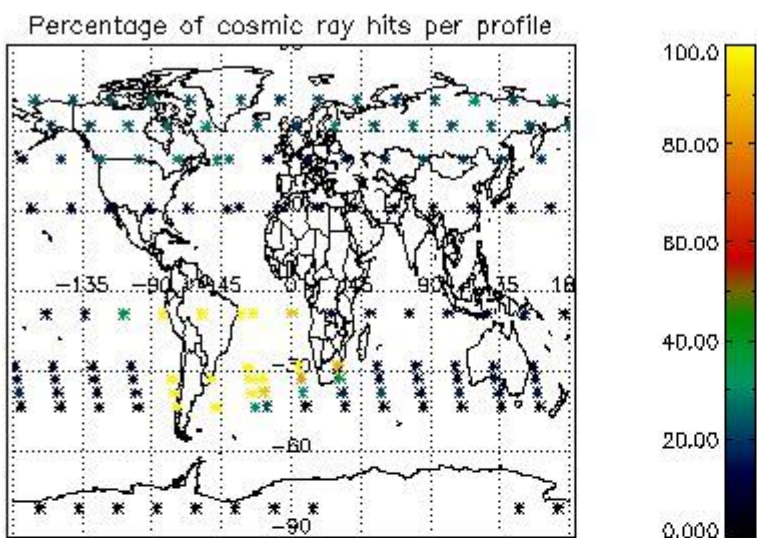


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



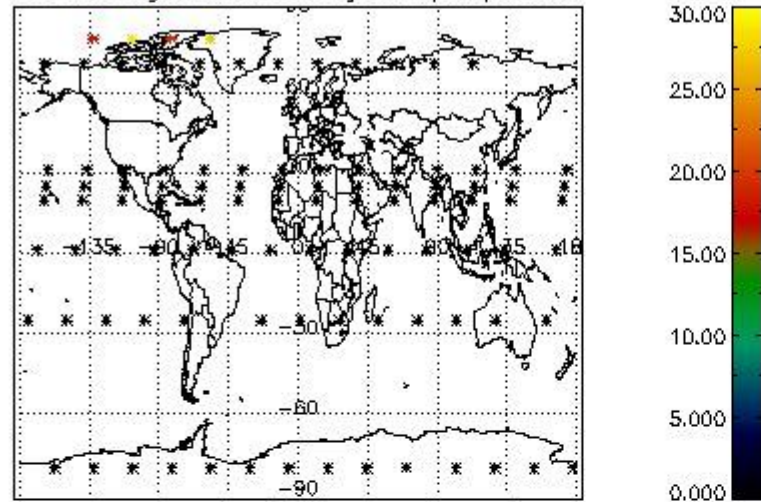
4.2 Plot quality information per product coming from level 1b processing (world map)

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

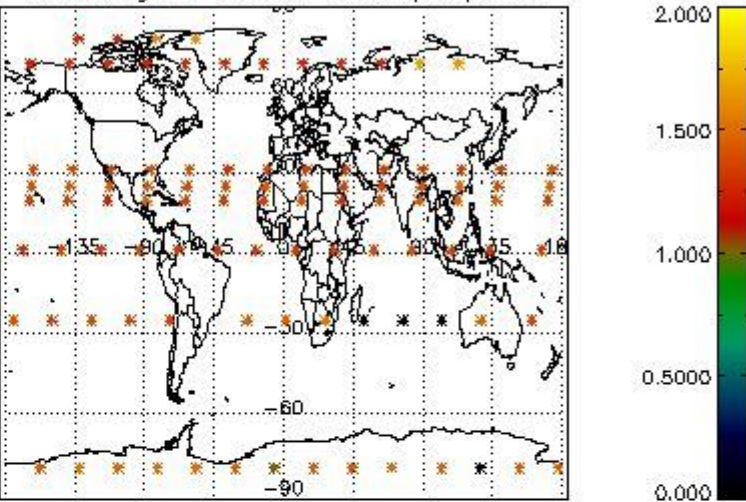


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

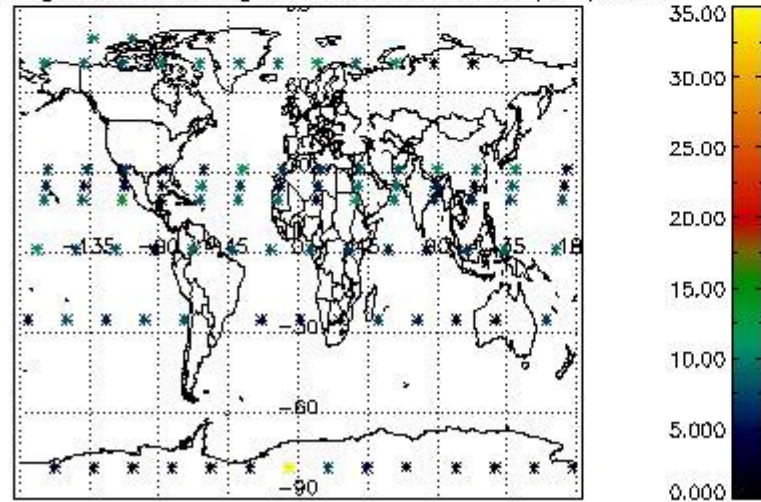
Percentage of cosmic ray hits per profile



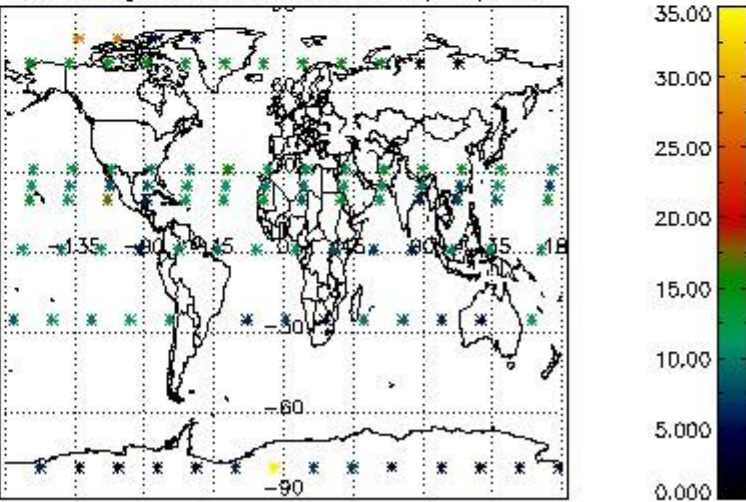
Percentage of datation errors per profile



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

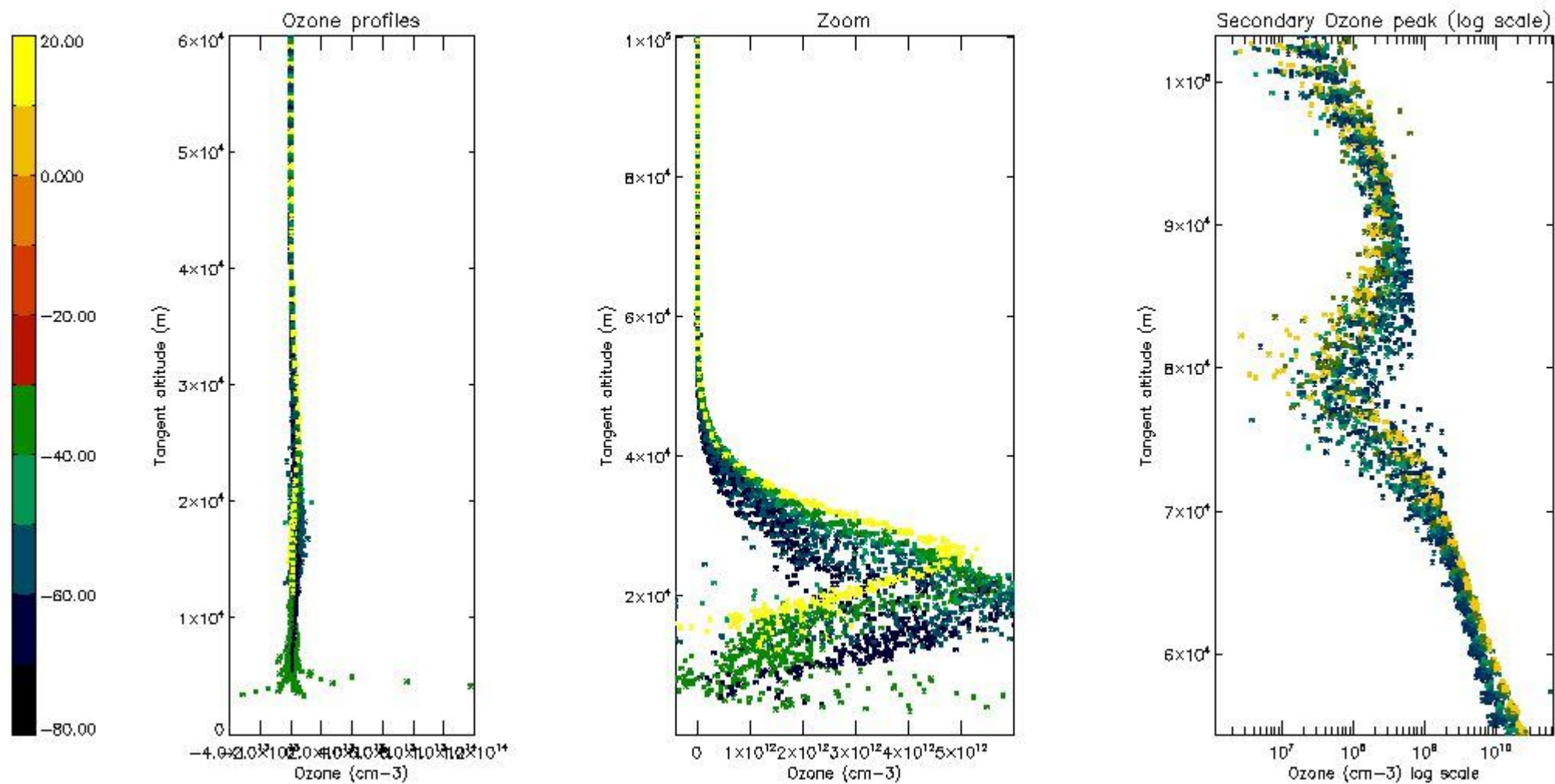
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	41
STD < 20	29

STD < 10	25
STD < 5	20

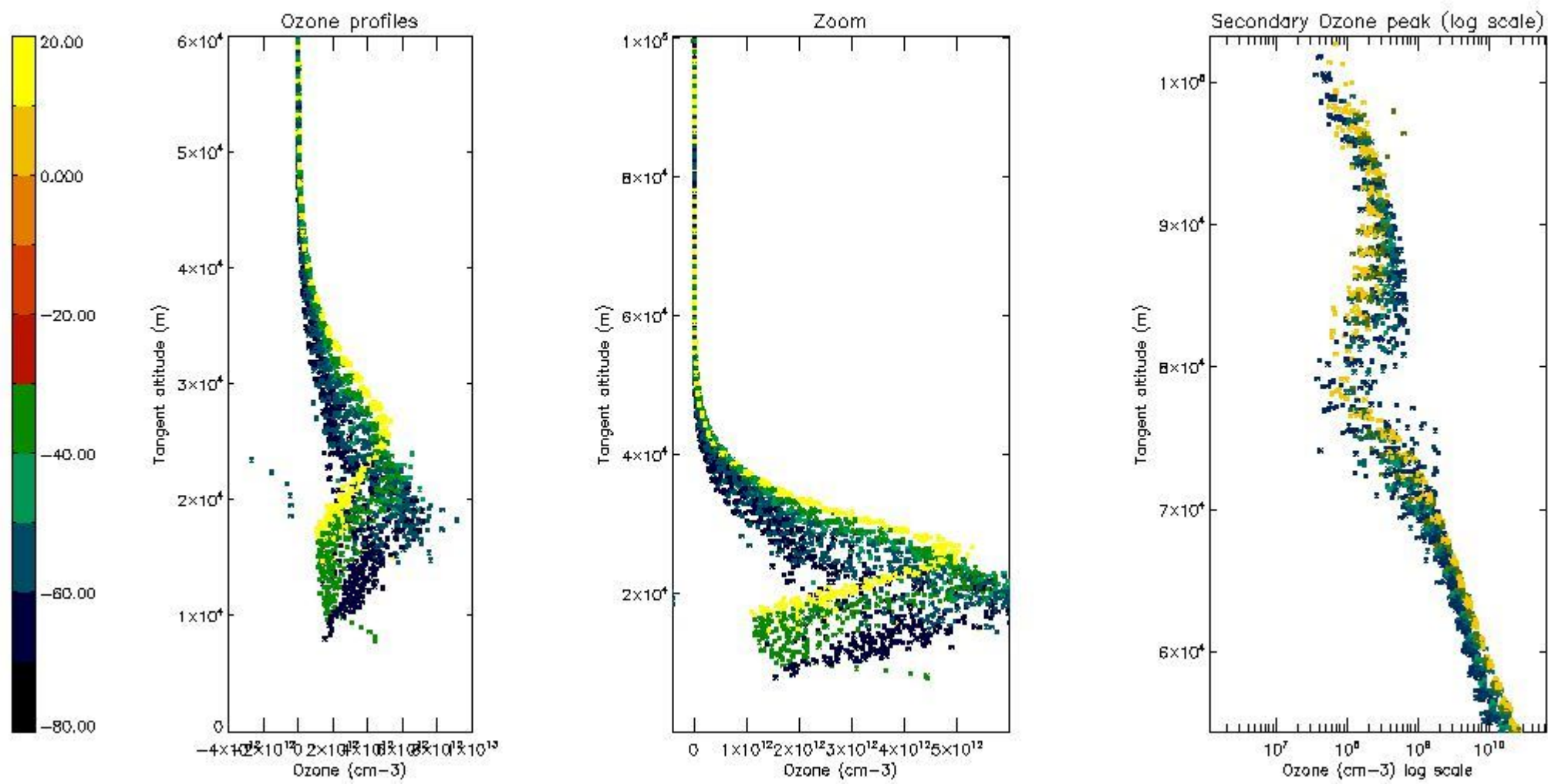
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



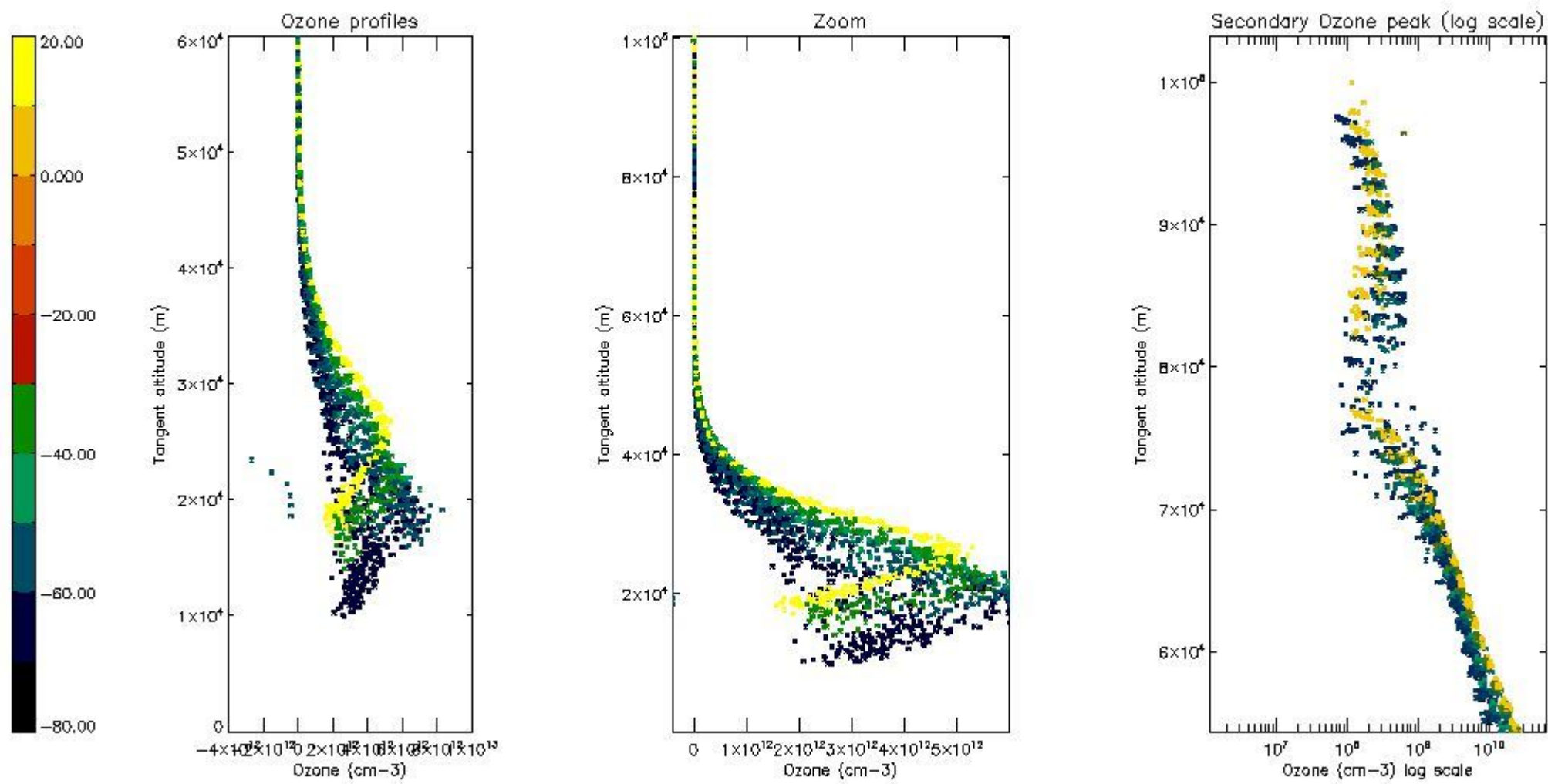
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



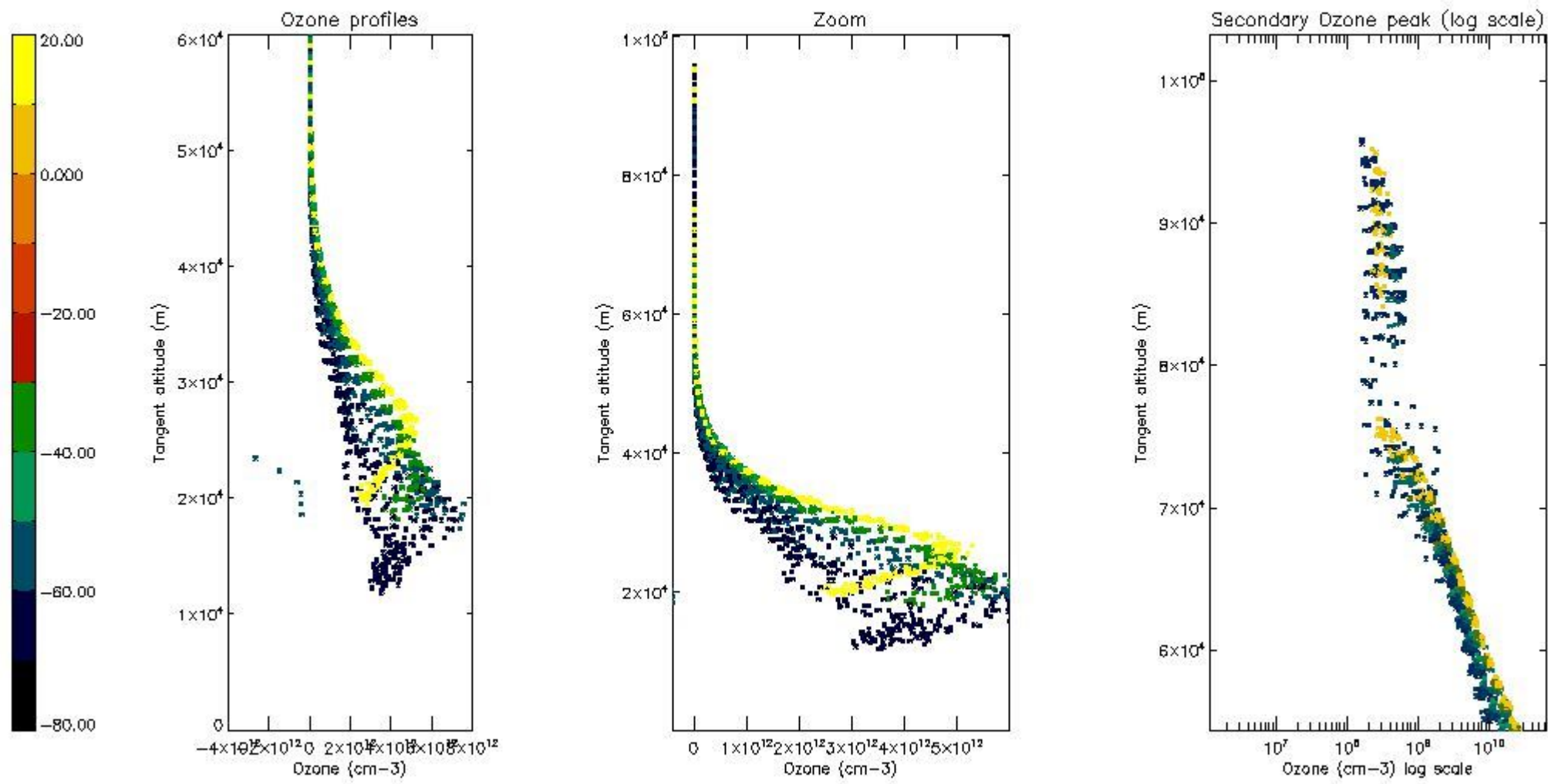
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



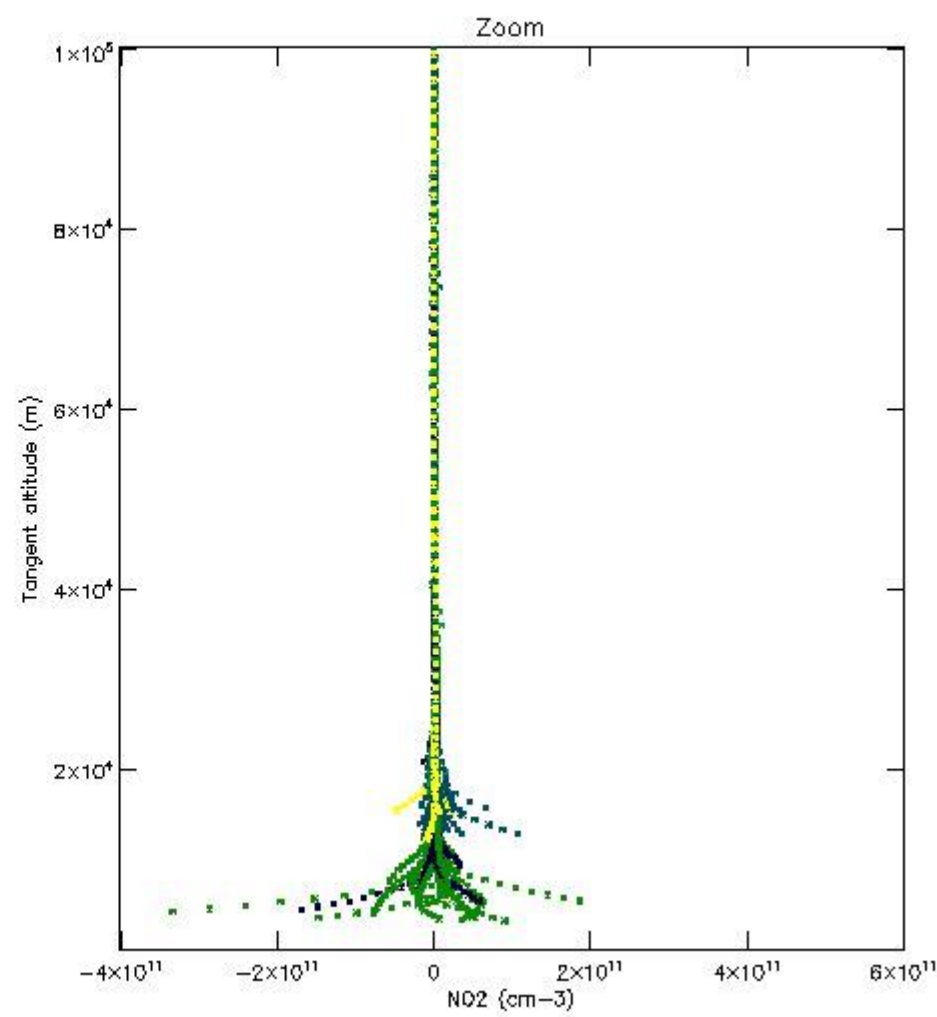
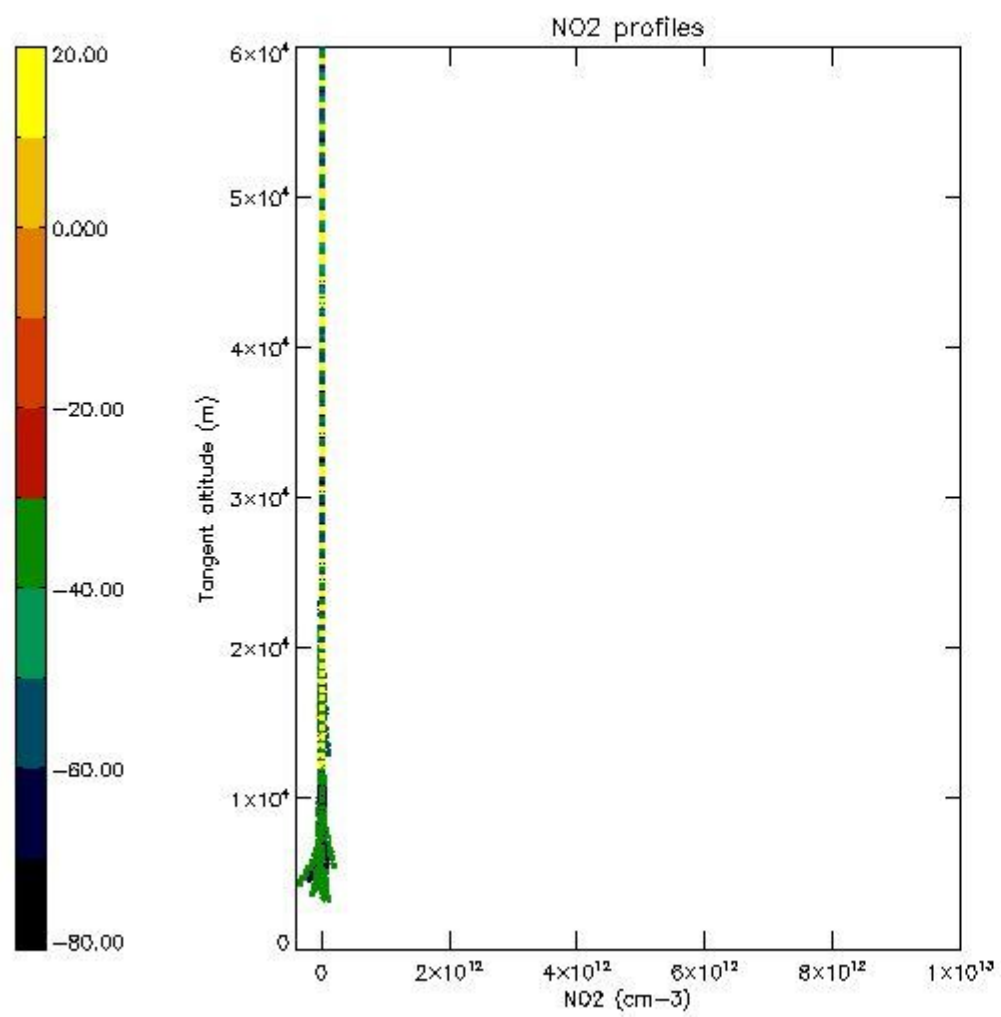
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



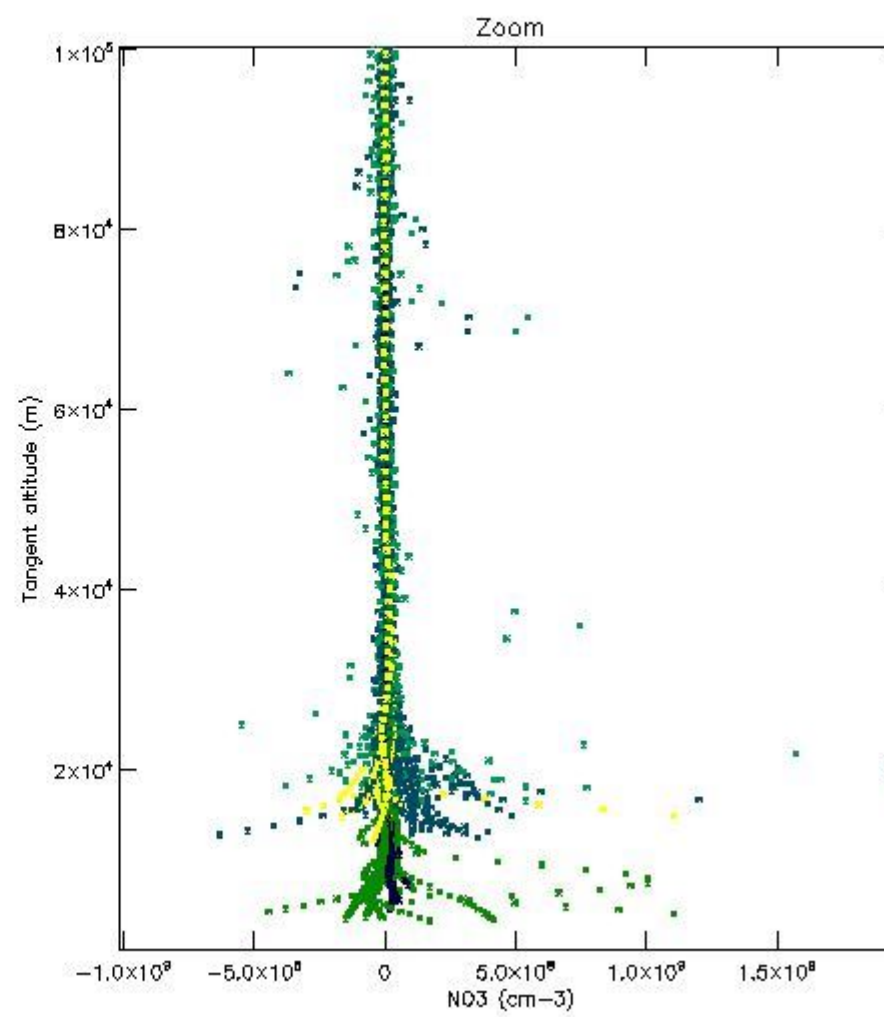
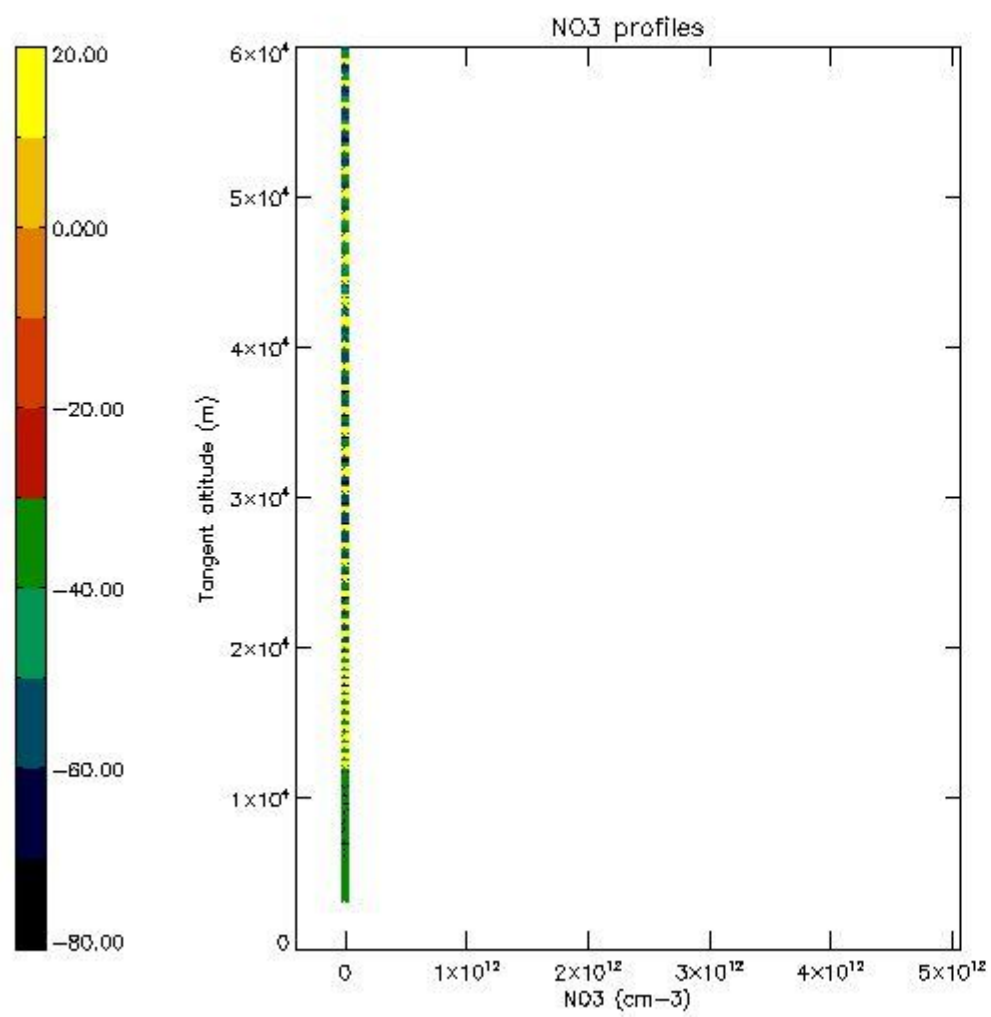
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



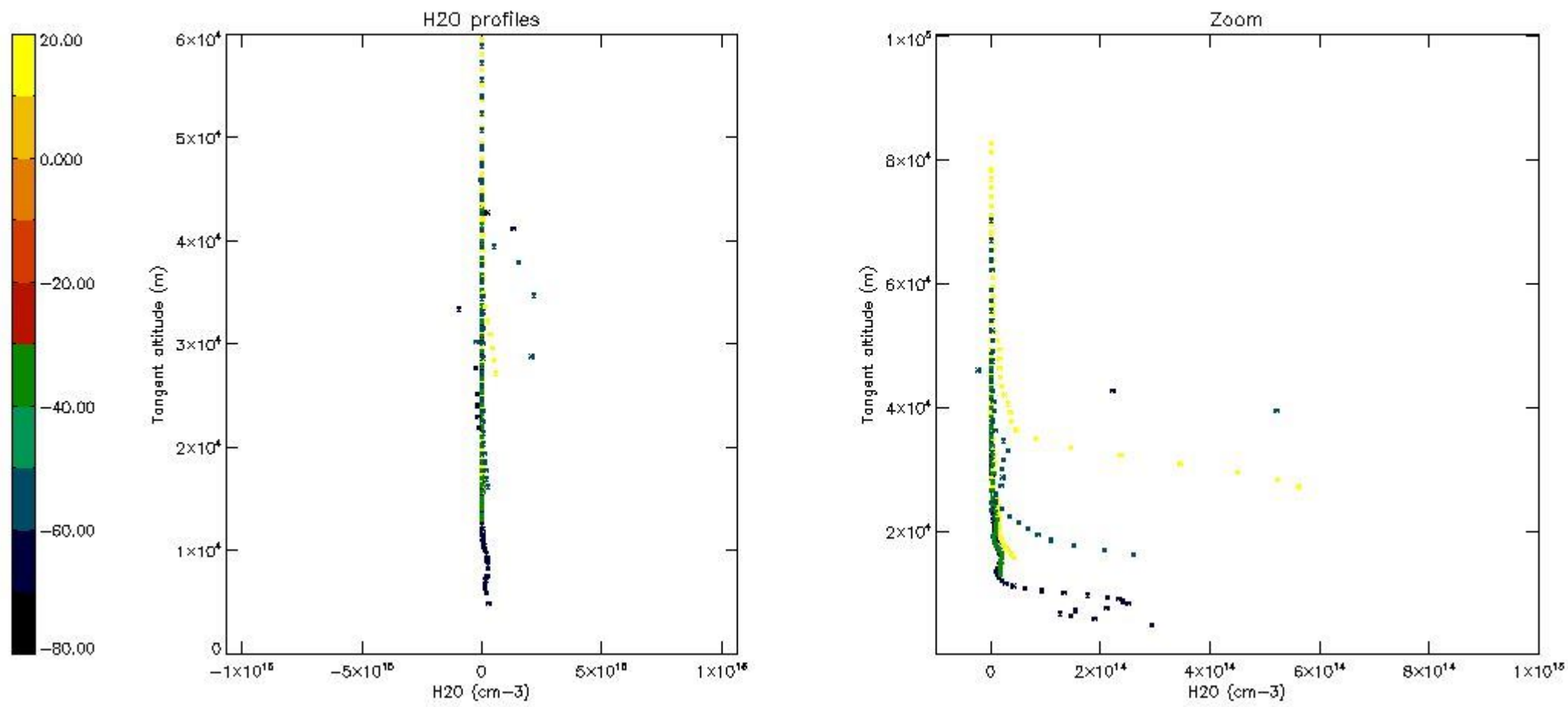
5.7 Plot NO3 profiles for all STD (dark without errors)

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	23-AUG-2007 00:05:22
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	23-AUG-2007 00:05:22
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	23-AUG-2007 00:05:22

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

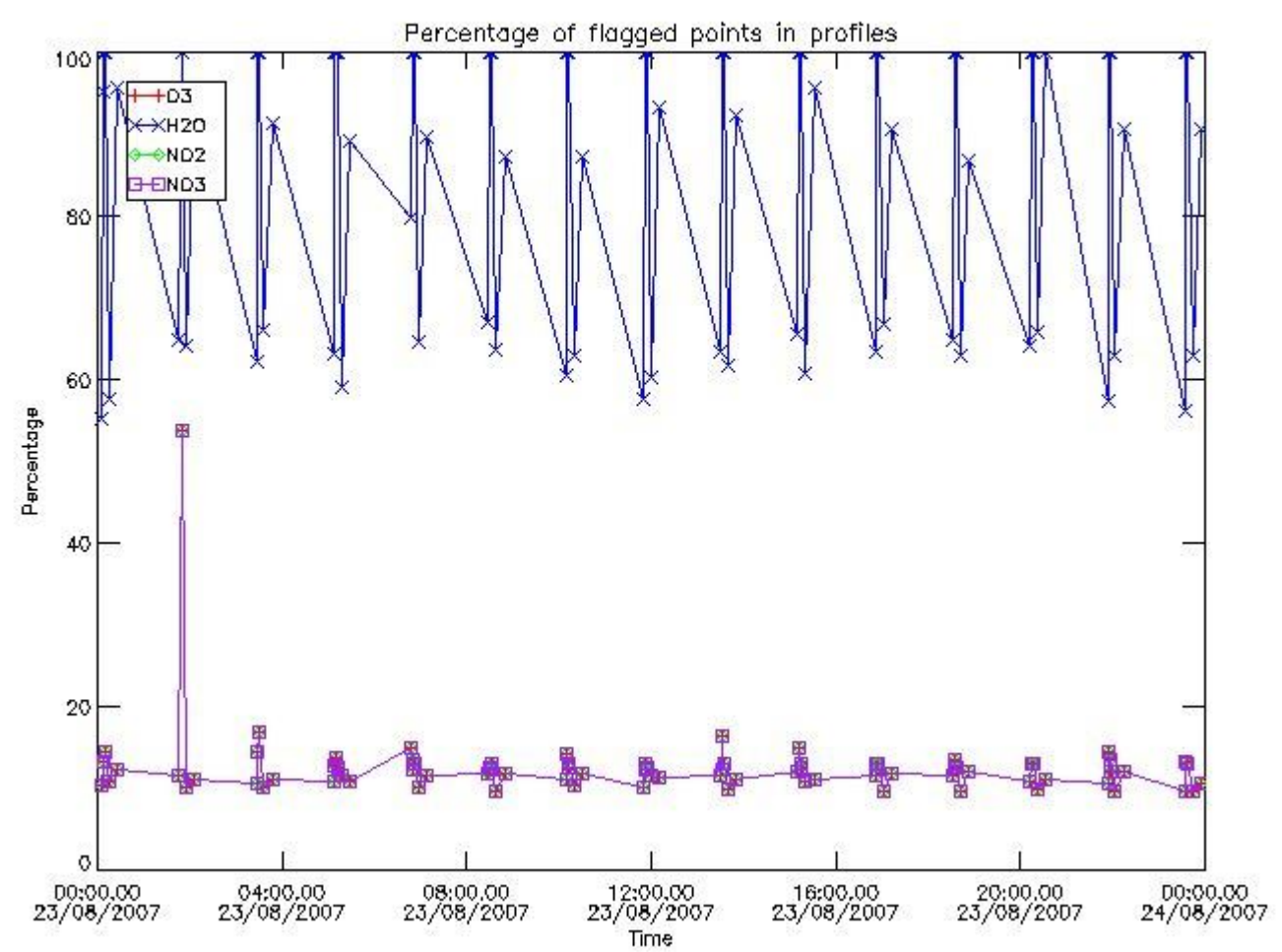
[6. Auxiliary Data Files used for the production reported in section 2](#)

220	GOM_NL__2PRFIN20070823_220301_000000532061_00043_28654_0020.N1	23-AUG-2007 22:03:01	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	28654	No
221	GOM_NL__2PRFIN20070823_221408_000000432061_00044_28655_0019.N1	23-AUG-2007 22:14:08	Dark	42.500	9	Alp Eri	0.45300	24000.	85	28655	No
222	GOM_NL__2PRFIN20070823_221915_000000392061_00044_28655_0020.N1	23-AUG-2007 22:19:15	Straylight	39.000	148	Alp Tuc	2.8780	4100.0	78	28655	No
223	GOM_NL__2PRFIN20070823_222252_000000422061_00044_28655_0021.N1	23-AUG-2007 22:22:52	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	28655	No
224	GOM_NL__2PRFIN20070823_222546_000000392061_00044_28655_0022.N1	23-AUG-2007 22:25:46	Straylight	38.500	172	Gam Gru	3.0030	13100.	77	28655	No
225	GOM_NL__2PRFIN20070823_223205_000000402061_00044_28655_0023.N1	23-AUG-2007 22:32:05	Bright	40.000	142	49Del Cap	2.8500	8900.0	80	28655	No
226	GOM_NL__2PRFIN20070823_223522_000000402061_00044_28655_0024.N1	23-AUG-2007 22:35:22	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	28655	No
227	GOM_NL__2PRFIN20070823_224650_000000362061_00044_28655_0025.N1	23-AUG-2007 22:46:50	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	28655	No
228	GOM_NL__2PRFIN20070823_224834_000000342061_00044_28655_0026.N1	23-AUG-2007 22:48:34	Bright	34.000	66	37Gam Cyg	2.2080	5900.0	68	28655	No
229	GOM_NL__2PRFIN20070823_225002_000000372061_00044_28655_0027.N1	23-AUG-2007 22:50:02	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	28655	No
230	GOM_NL__2PRFIN20070823_225514_000000382061_00044_28655_0028.N1	23-AUG-2007 22:55:14	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	28655	No
231	GOM_NL__2PRFIN20070823_230238_000000372061_00044_28655_0029.N1	23-AUG-2007 23:02:38	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	28655	No
232	GOM_NL__2PRFIN20070823_231916_000000352061_00044_28655_0030.N1	23-AUG-2007 23:19:16	Bright	34.500	24	66Alp Gem	1.5800	10200.	69	28655	No
233	GOM_NL__2PRFIN20070823_233351_000000532061_00044_28655_0031.N1	23-AUG-2007 23:33:51	Dark	53.000	1	9Alp CMa	-1.4400	11000.	106	28655	No
234	GOM_NL__2PRFIN20070823_233520_000000392061_00044_28655_0032.N1	23-AUG-2007 23:35:20	Dark	38.500	179	24Omi2CMa	3.0320	24000.	77	28655	No
235	GOM_NL__2PRFIN20070823_233648_000000402061_00044_28655_0033.N1	23-AUG-2007 23:36:48	Dark	39.500	23	21Eps CMa	1.5020	26000.	79	28655	No
236	GOM_NL__2PRFIN20070823_234337_000000532061_00044_28655_0034.N1	23-AUG-2007 23:43:37	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	28655	No
237	GOM_NL__2PRFIN20070823_235445_000000482061_00045_28656_0028.N1	23-AUG-2007 23:54:45	Dark	48.000	9	Alp Eri	0.45300	24000.	96	28656	No
238	GOM_NL__2PRFIN20070823_235951_000000382061_00045_28656_0029.N1	23-AUG-2007 23:59:51	Straylight	38.000	148	Alp Tuc	2.8780	4100.0	76	28656	No

3. Quality information per product

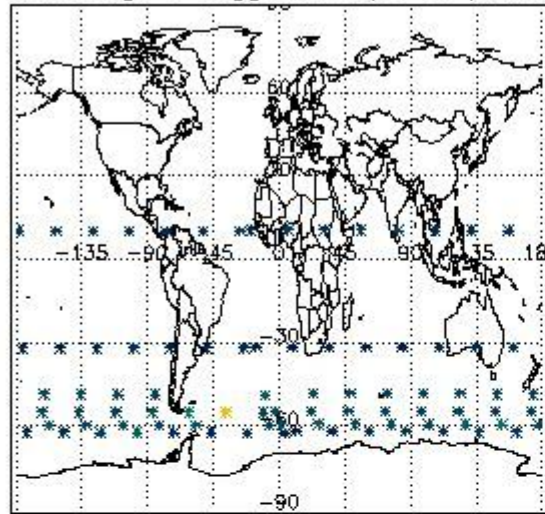
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

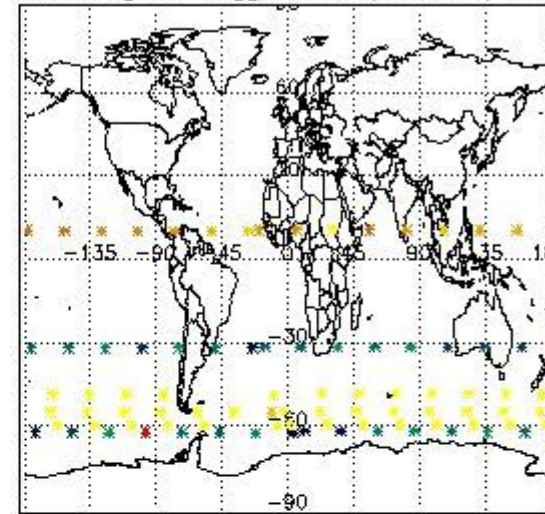


3.2 Plot quality information per product (world map)

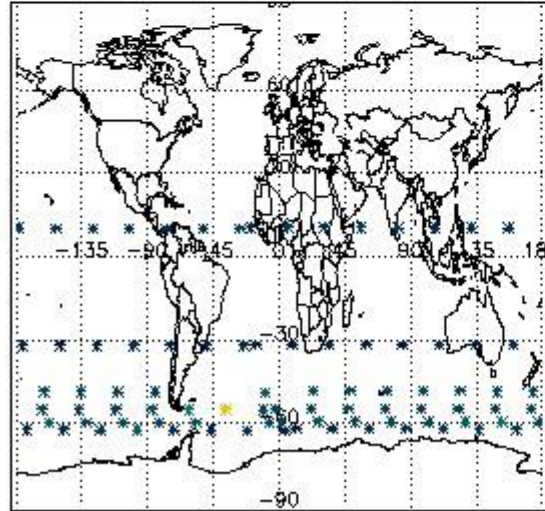
Percentage of flagged data per O3 profile



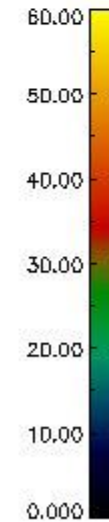
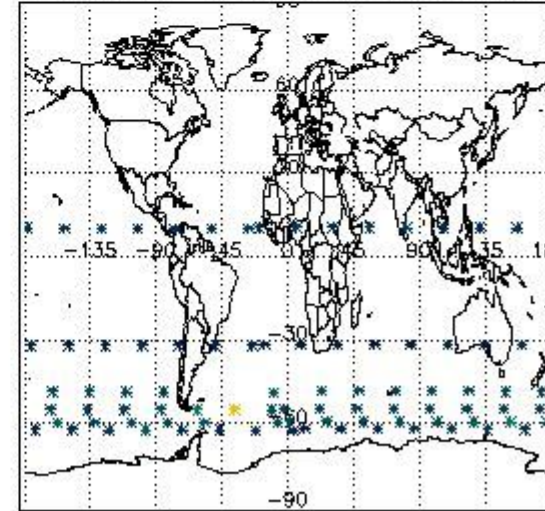
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

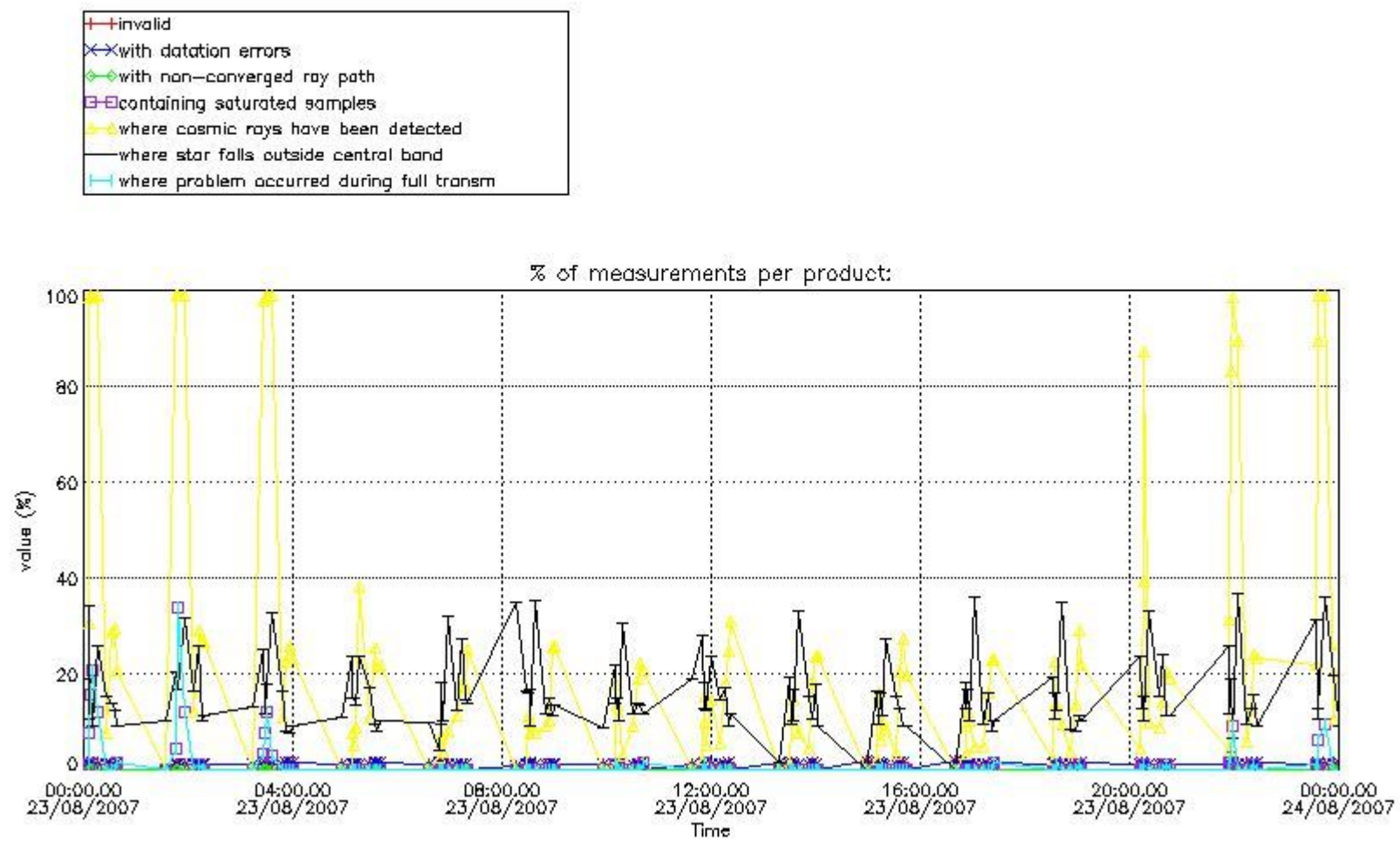


4. Level 1 quality information per product

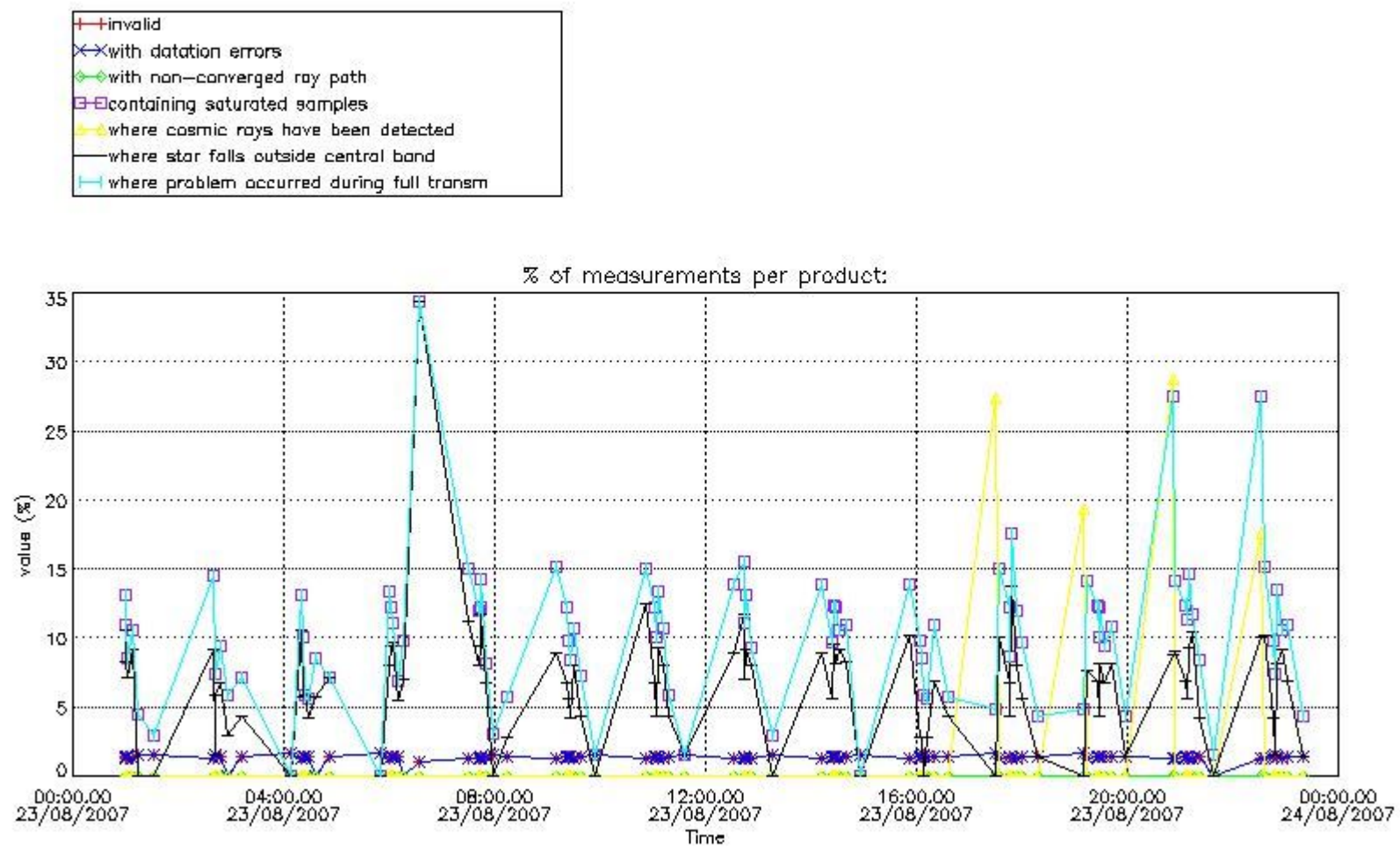
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

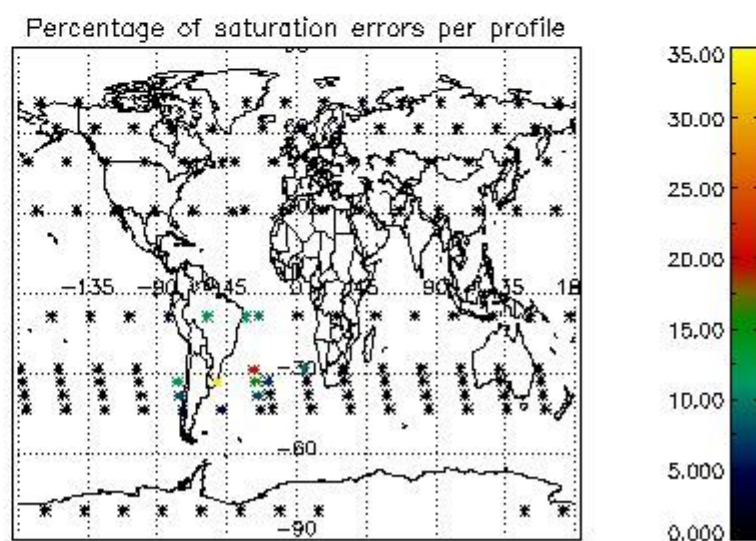
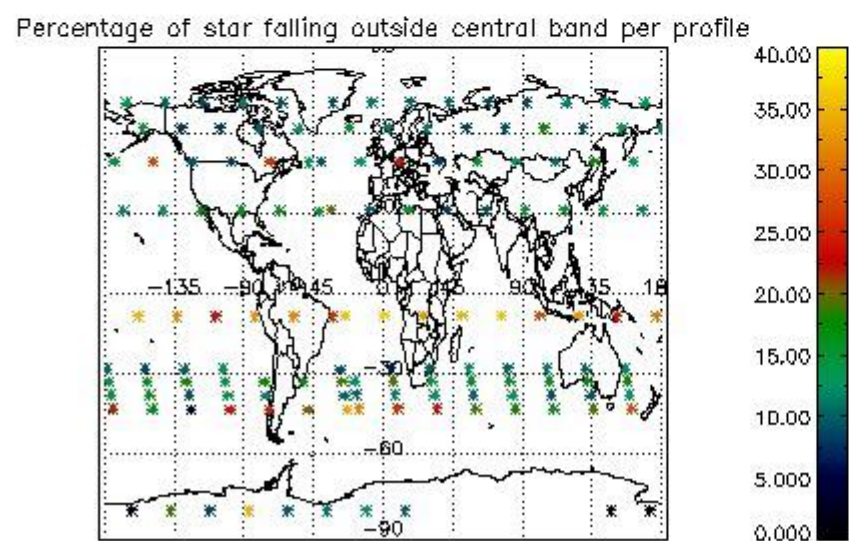
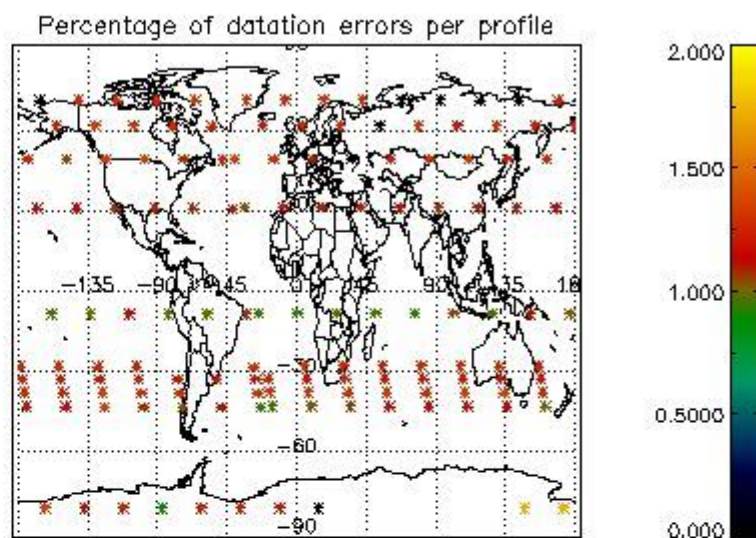
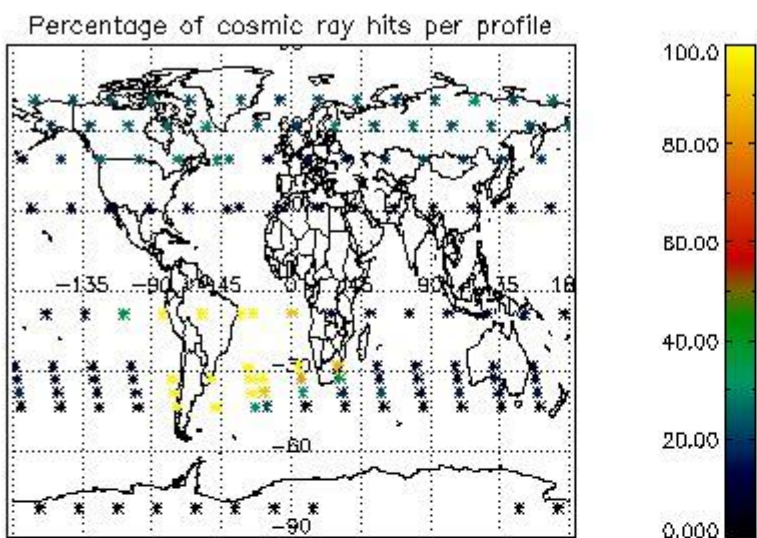


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

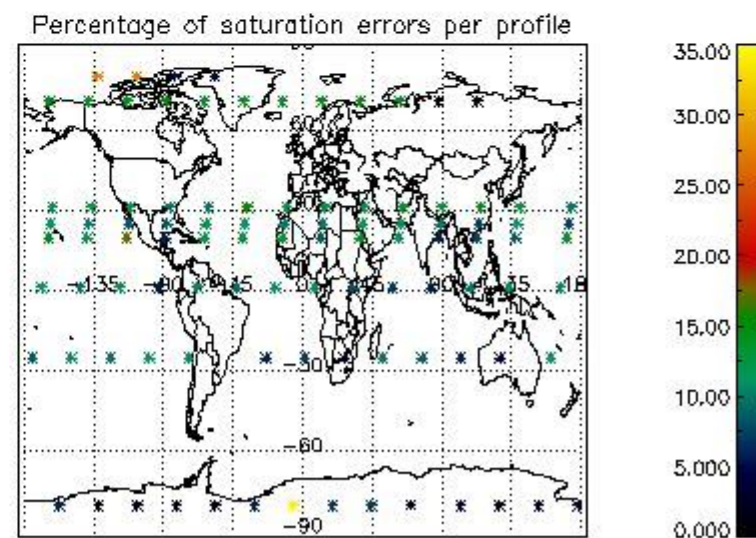
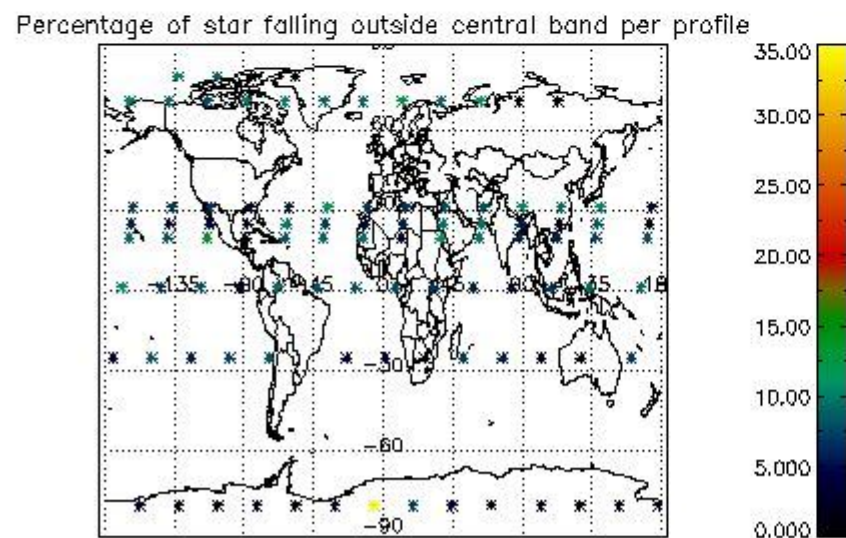
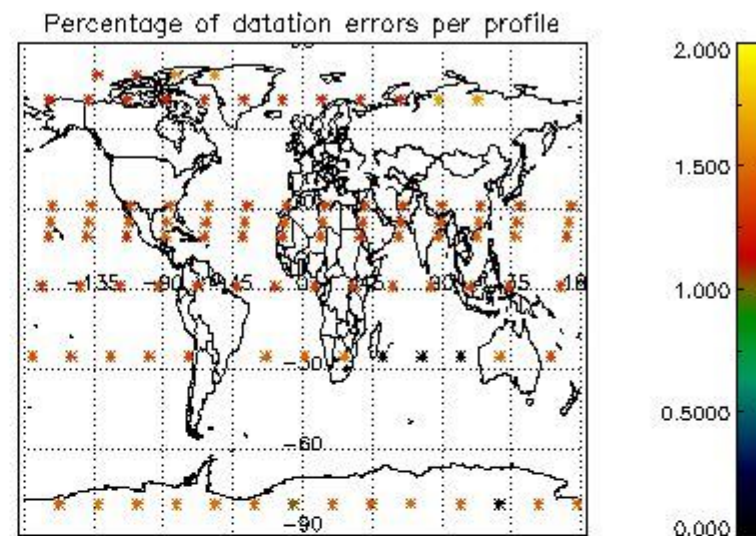
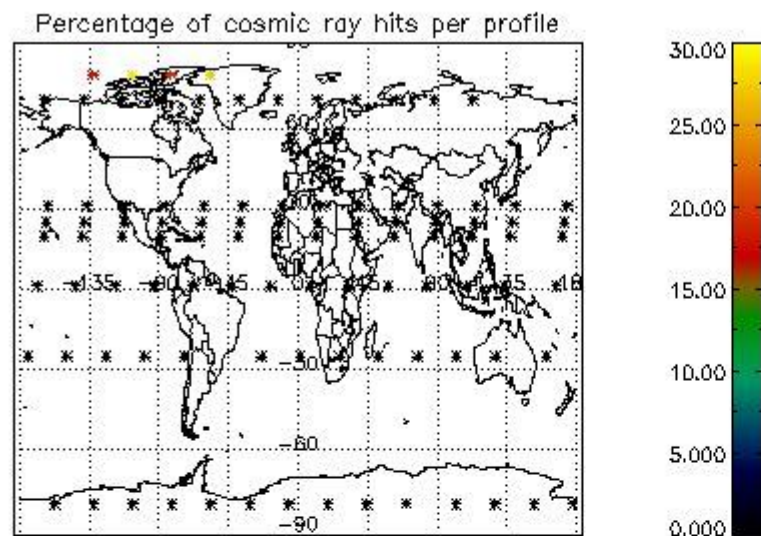


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

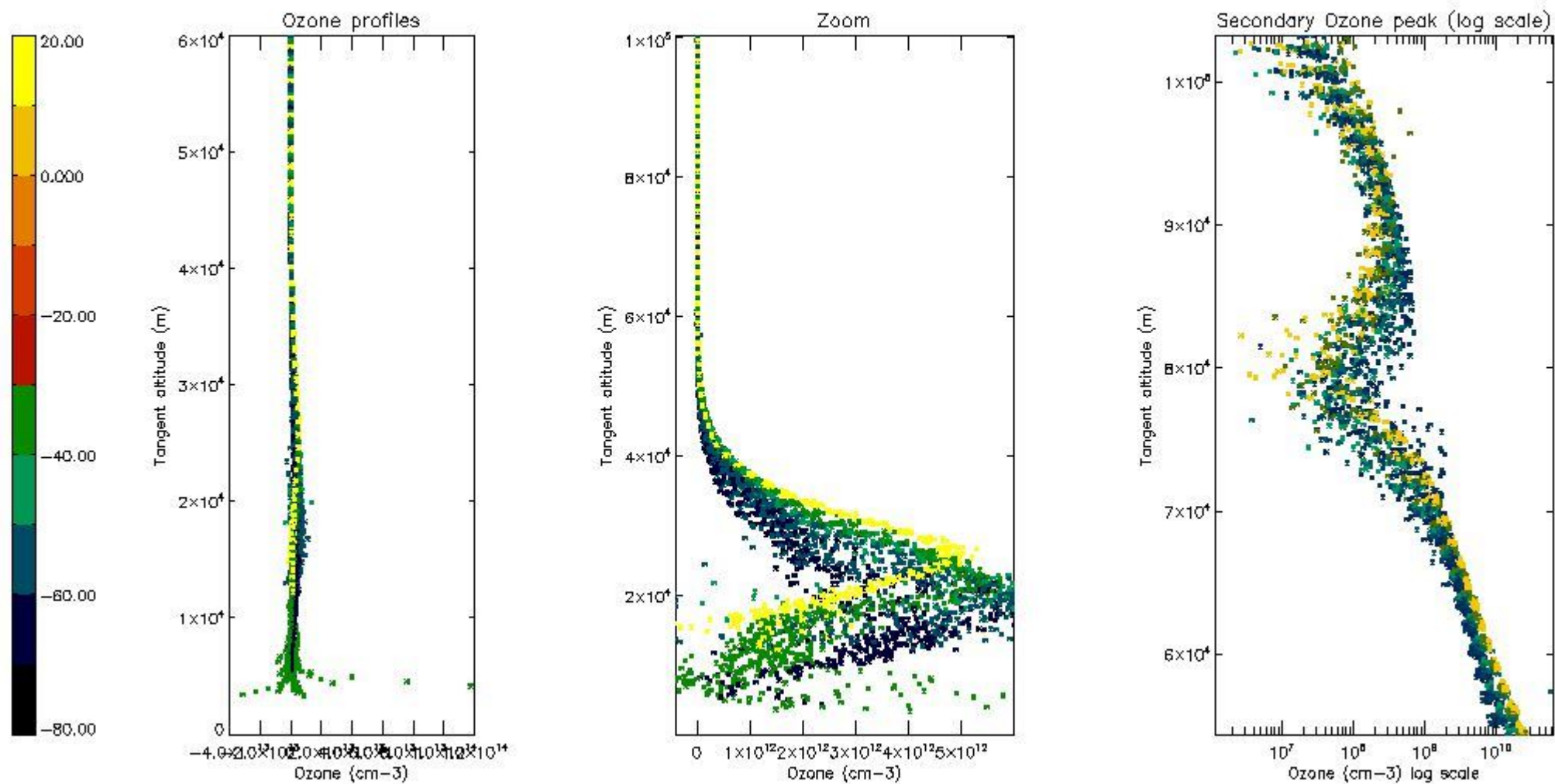
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	41
STD < 20	29

STD < 10	25
STD < 5	20

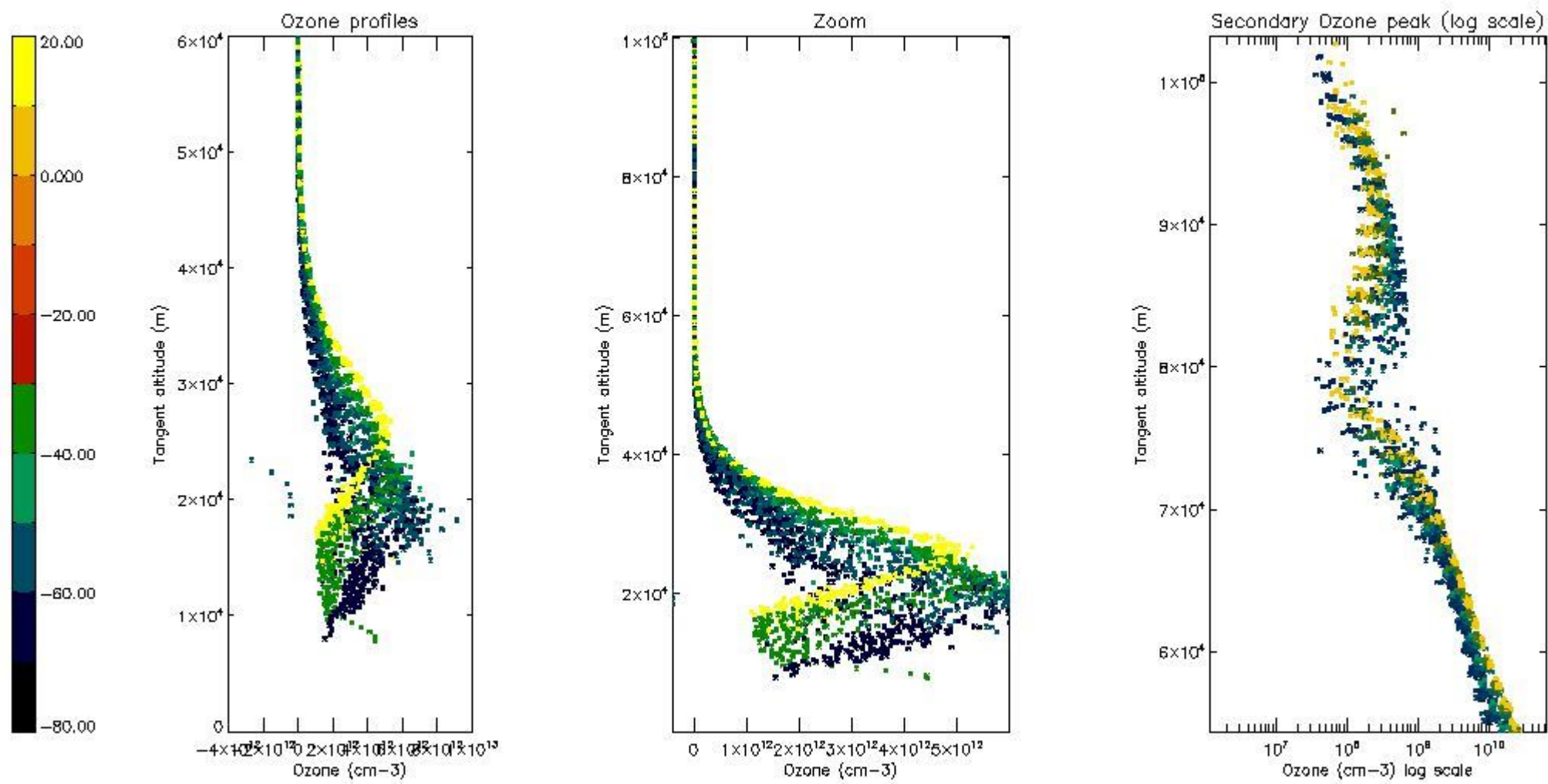
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



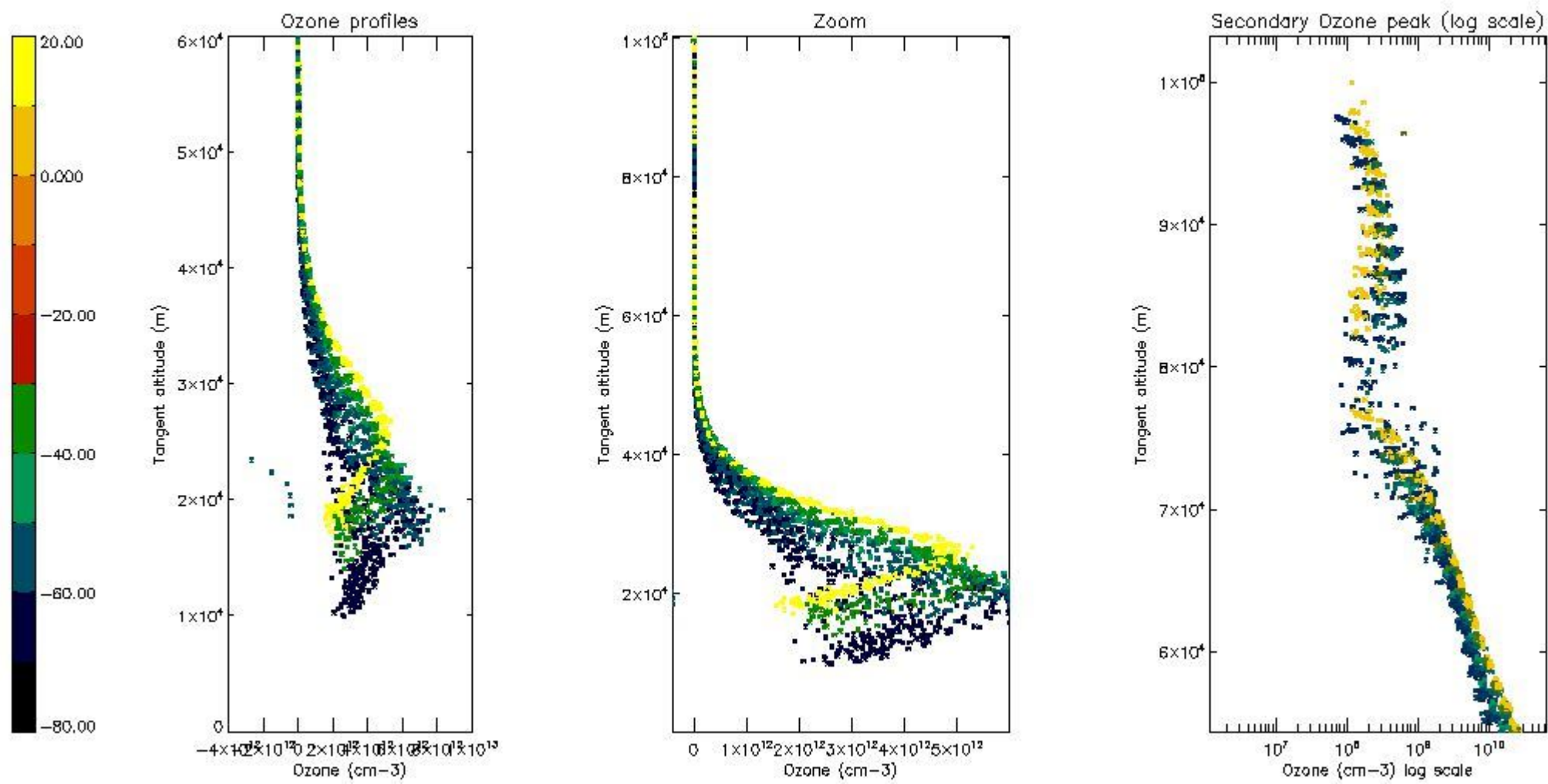
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



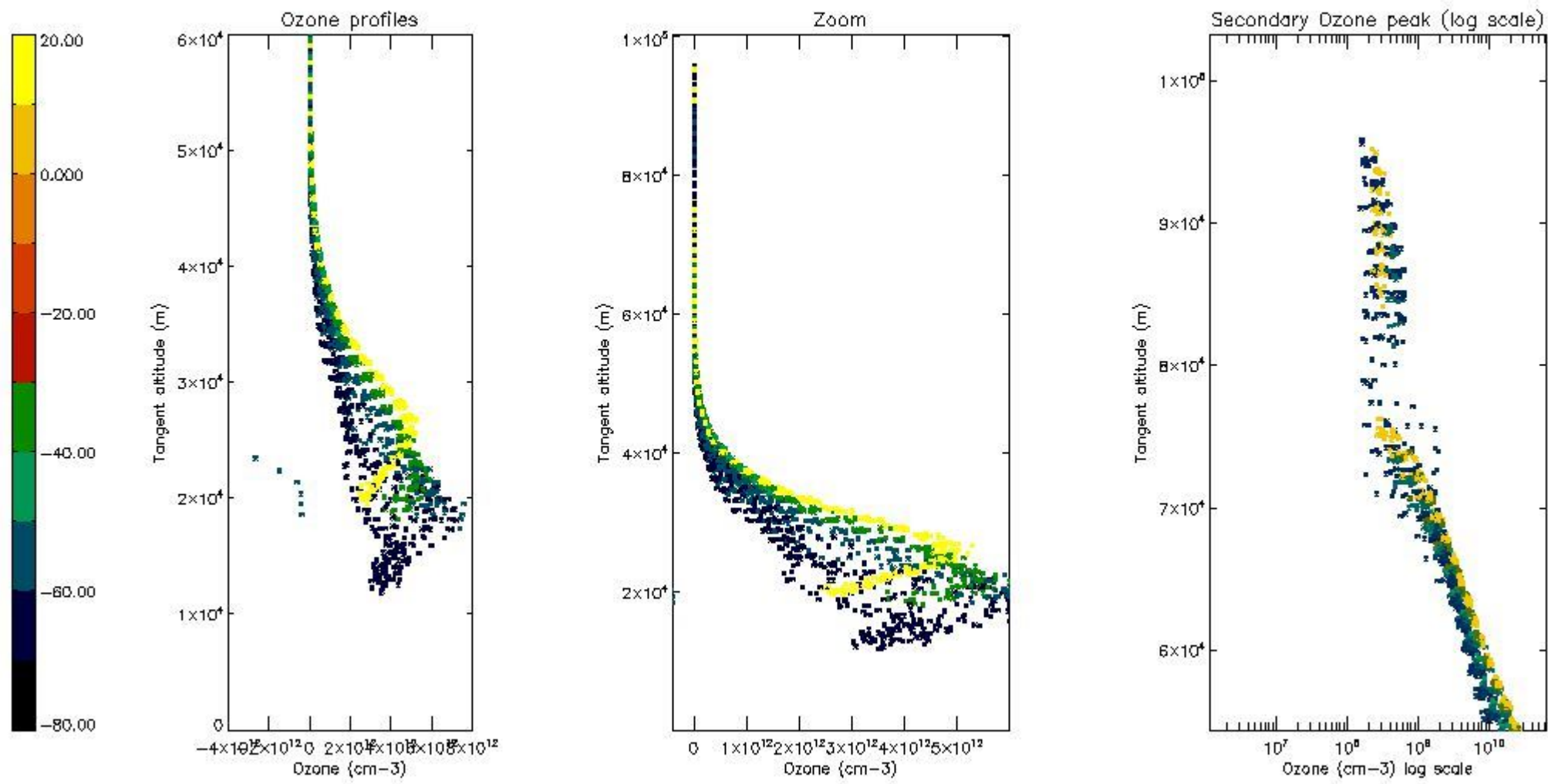
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



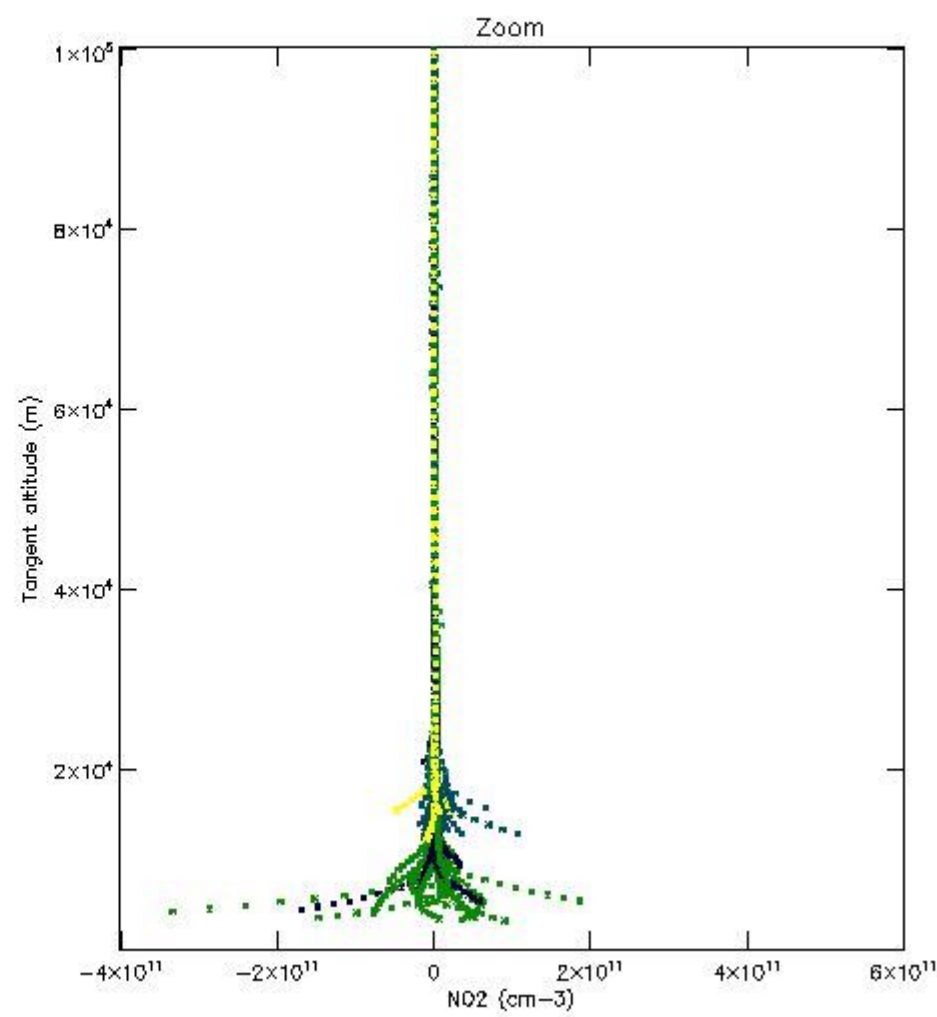
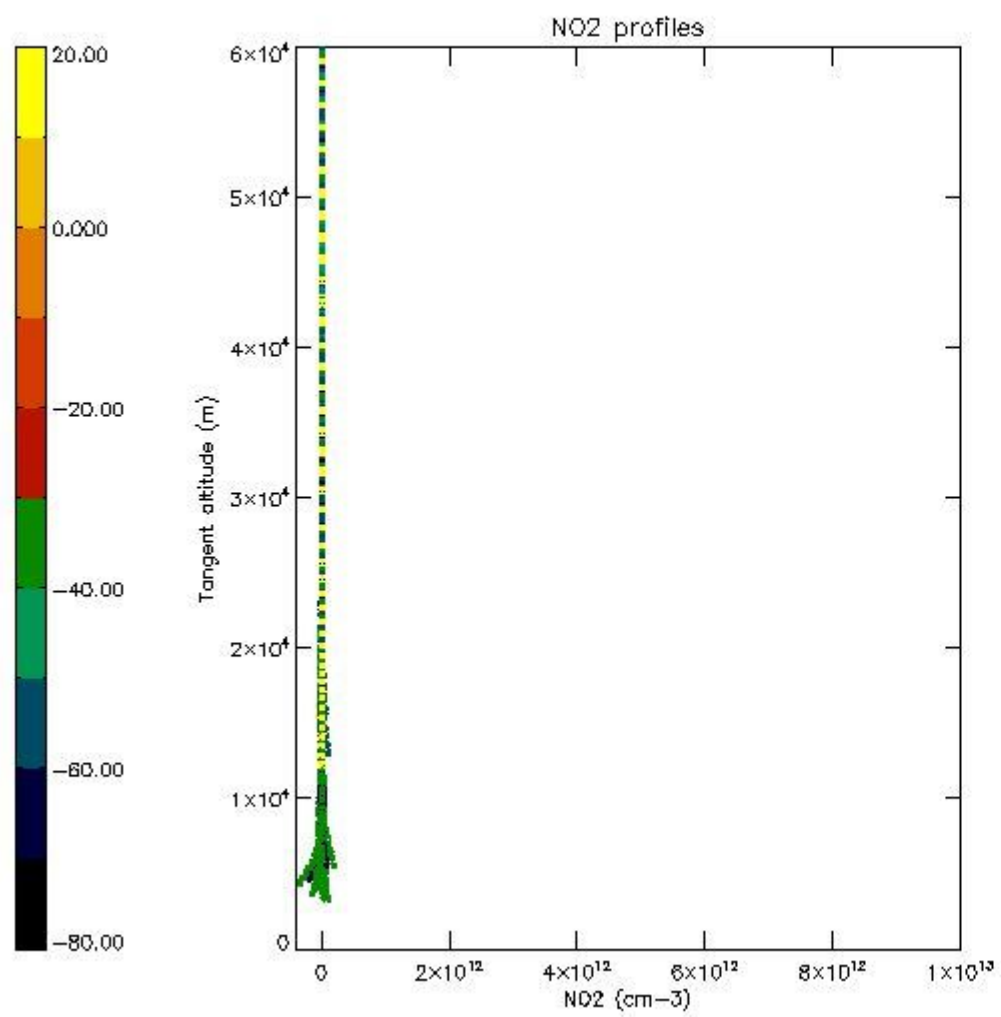
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



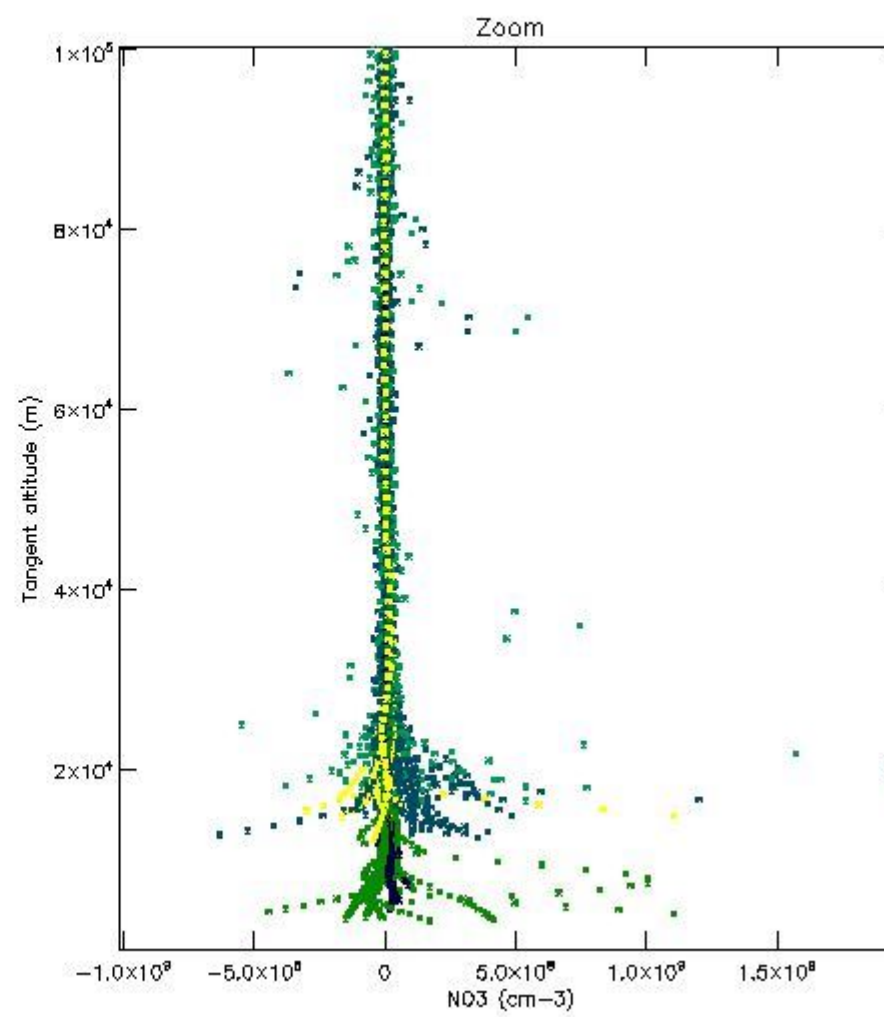
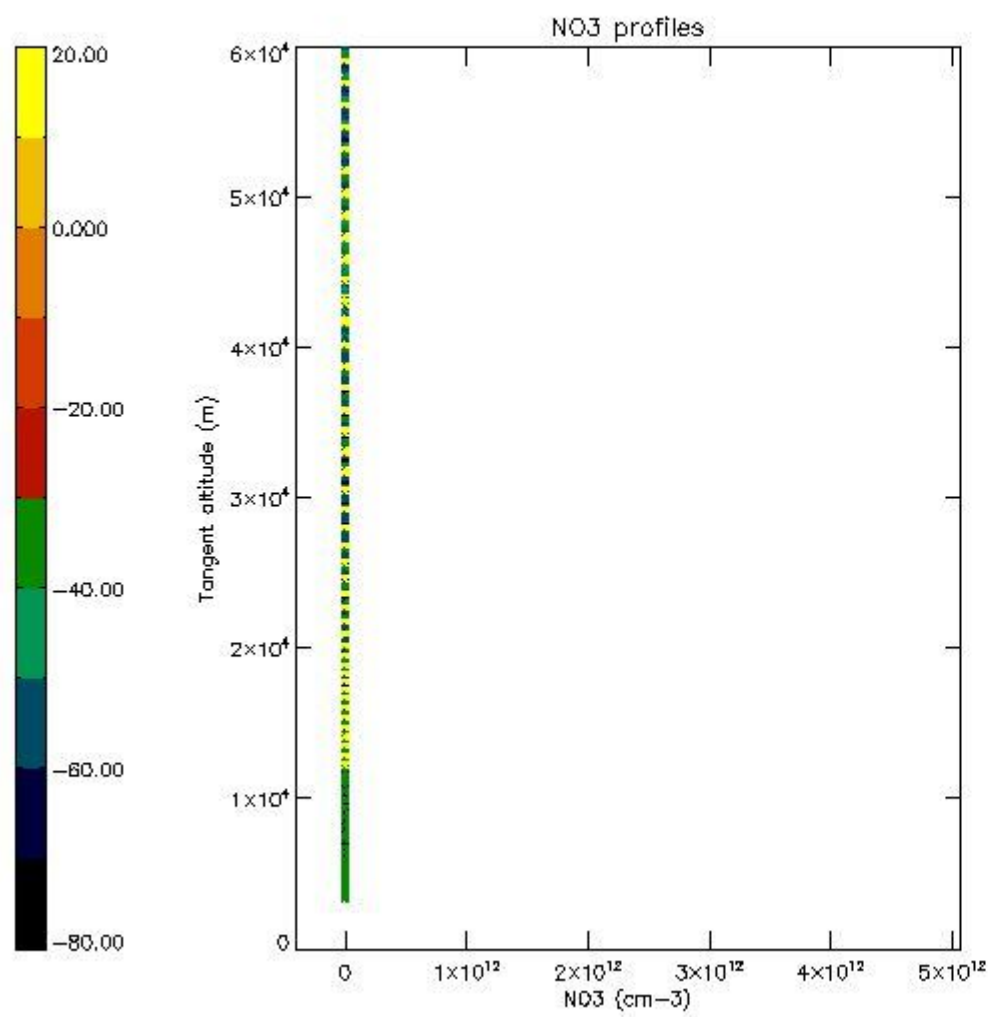
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



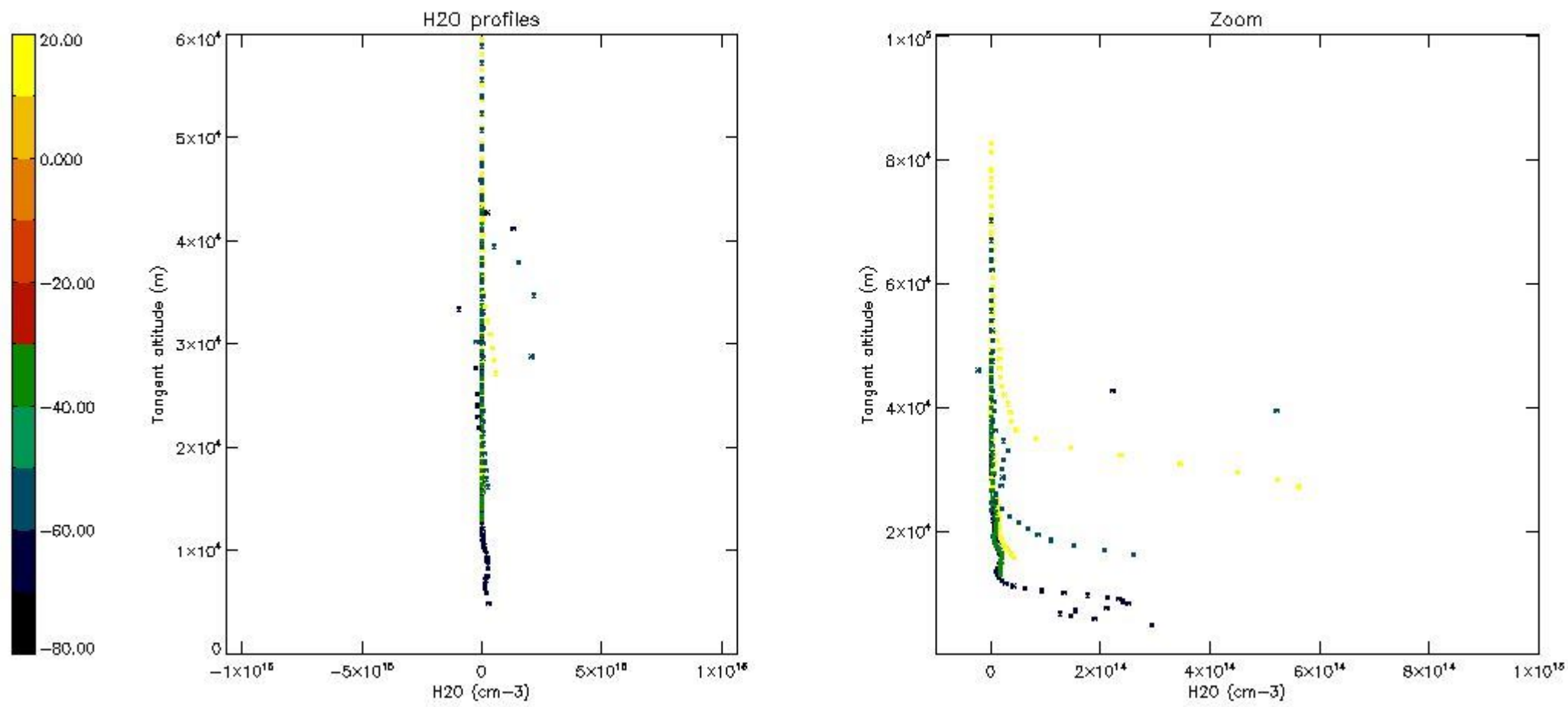
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

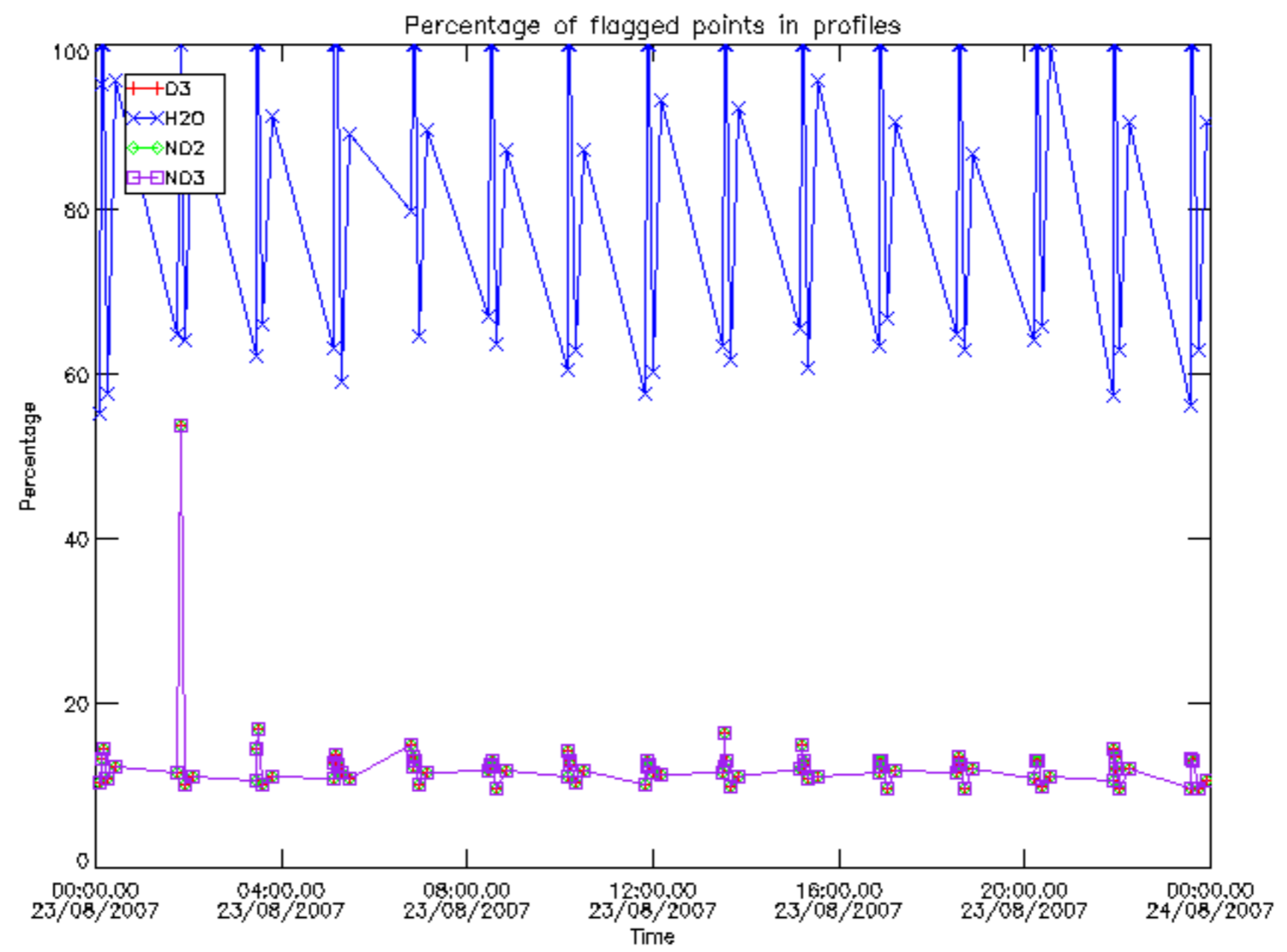
The colorbar represents the latitude.



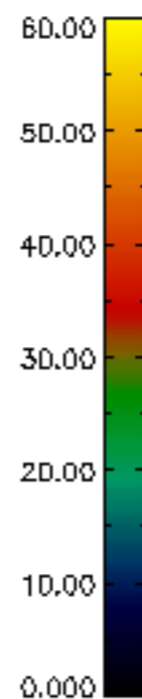
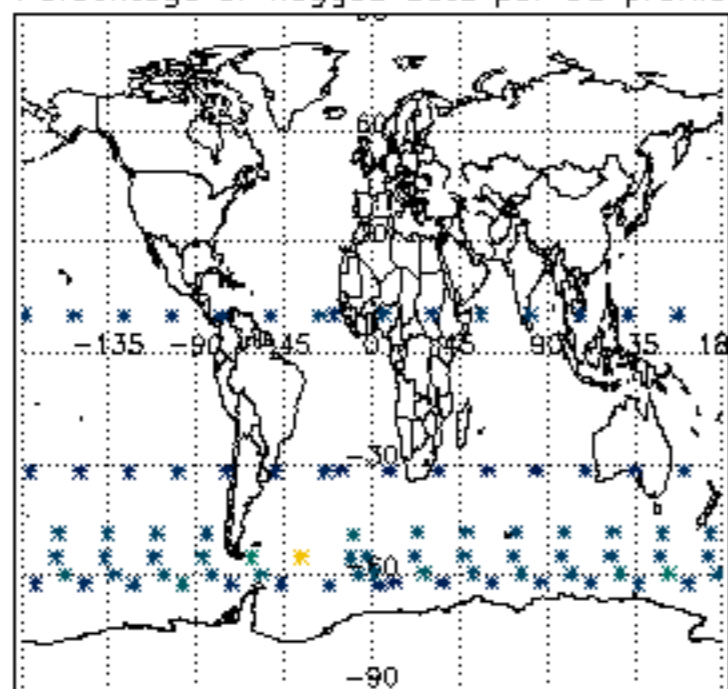
6. Auxiliary Data Files used for the production reported in section 2

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.

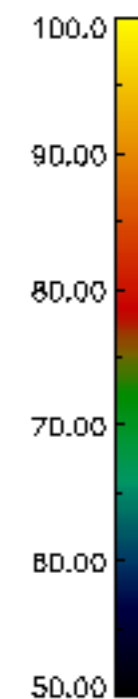
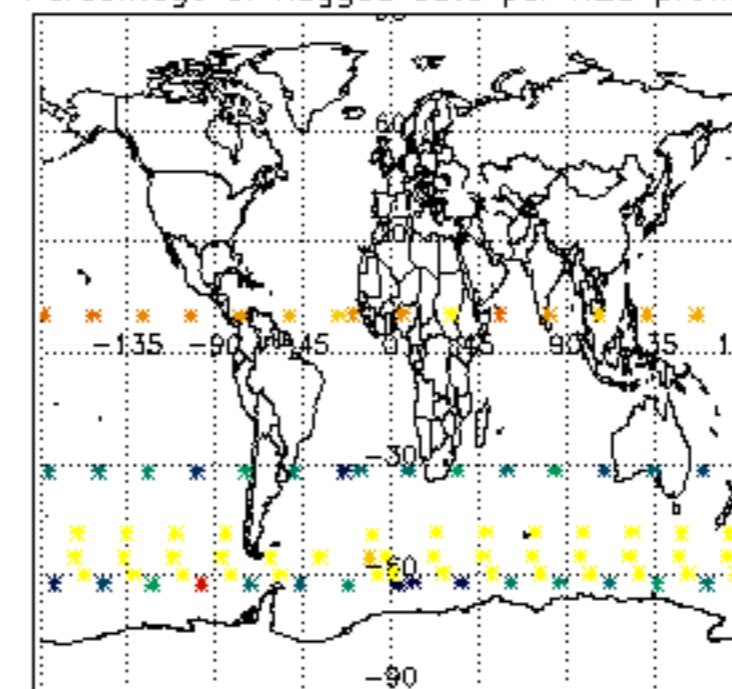
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	23-AUG-2007 00:05:22
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	23-AUG-2007 00:05:22
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	23-AUG-2007 00:05:22



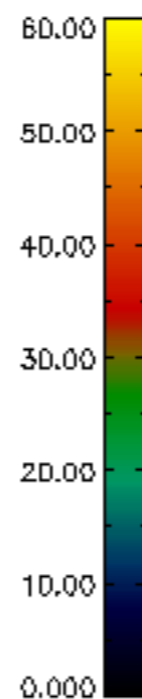
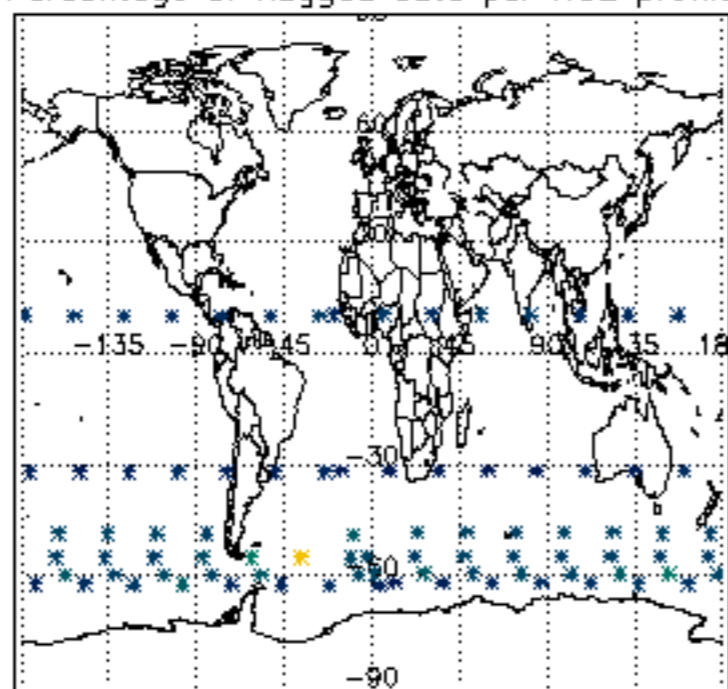
Percentage of flagged data per D3 profile



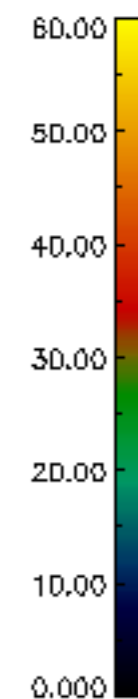
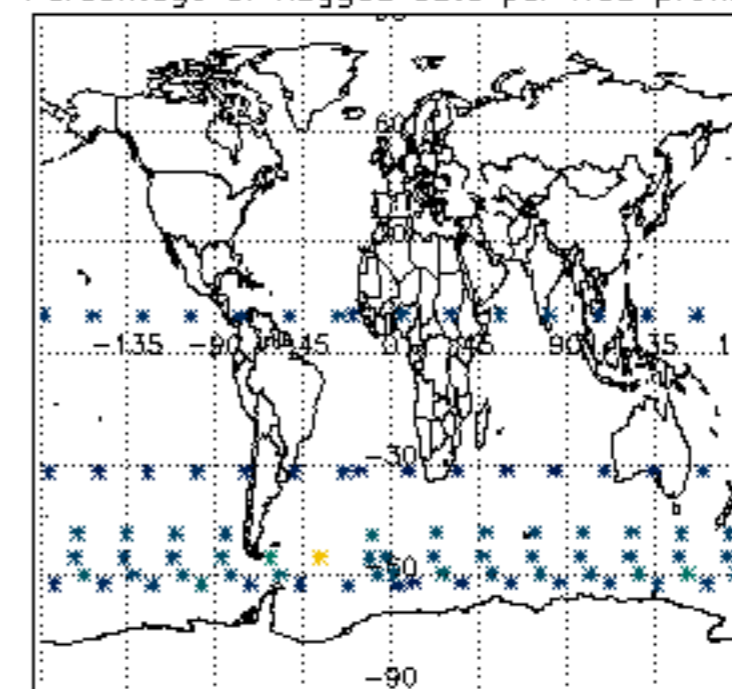
Percentage of flagged data per H2O profile

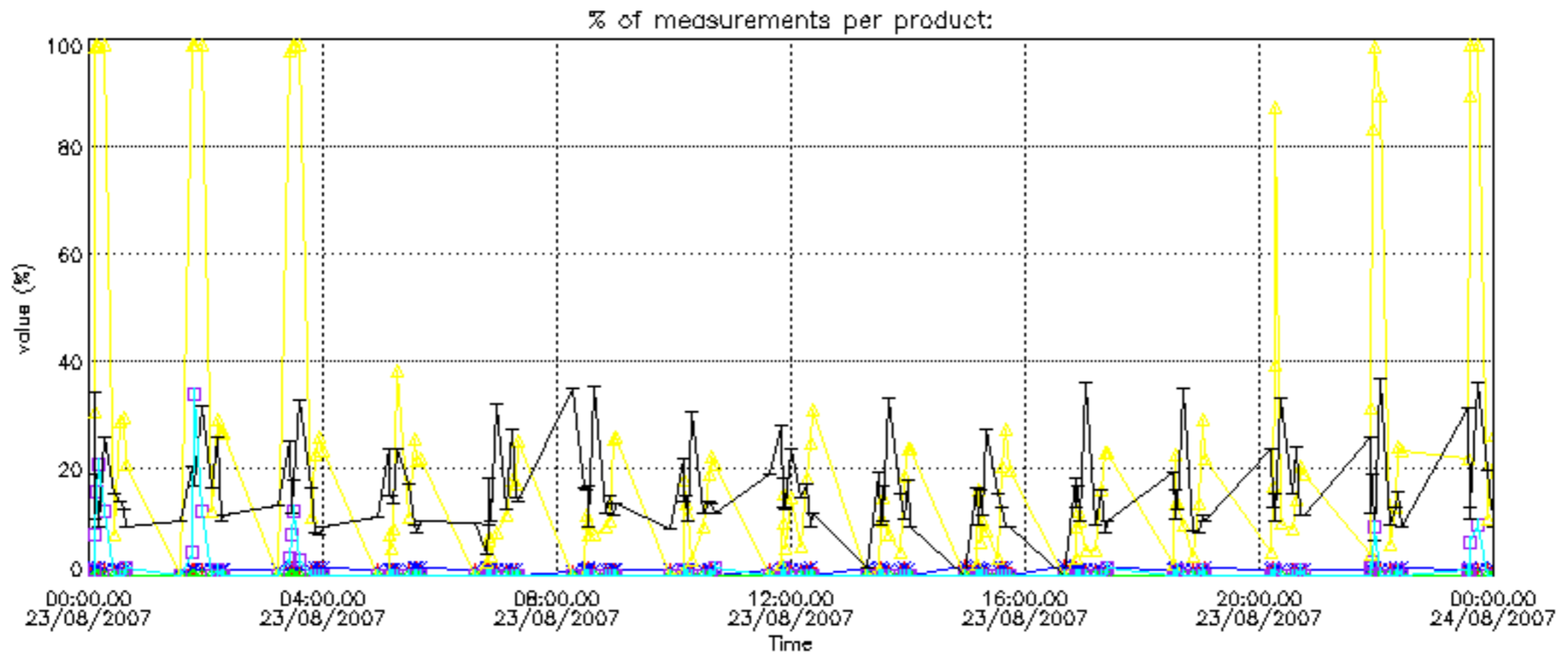


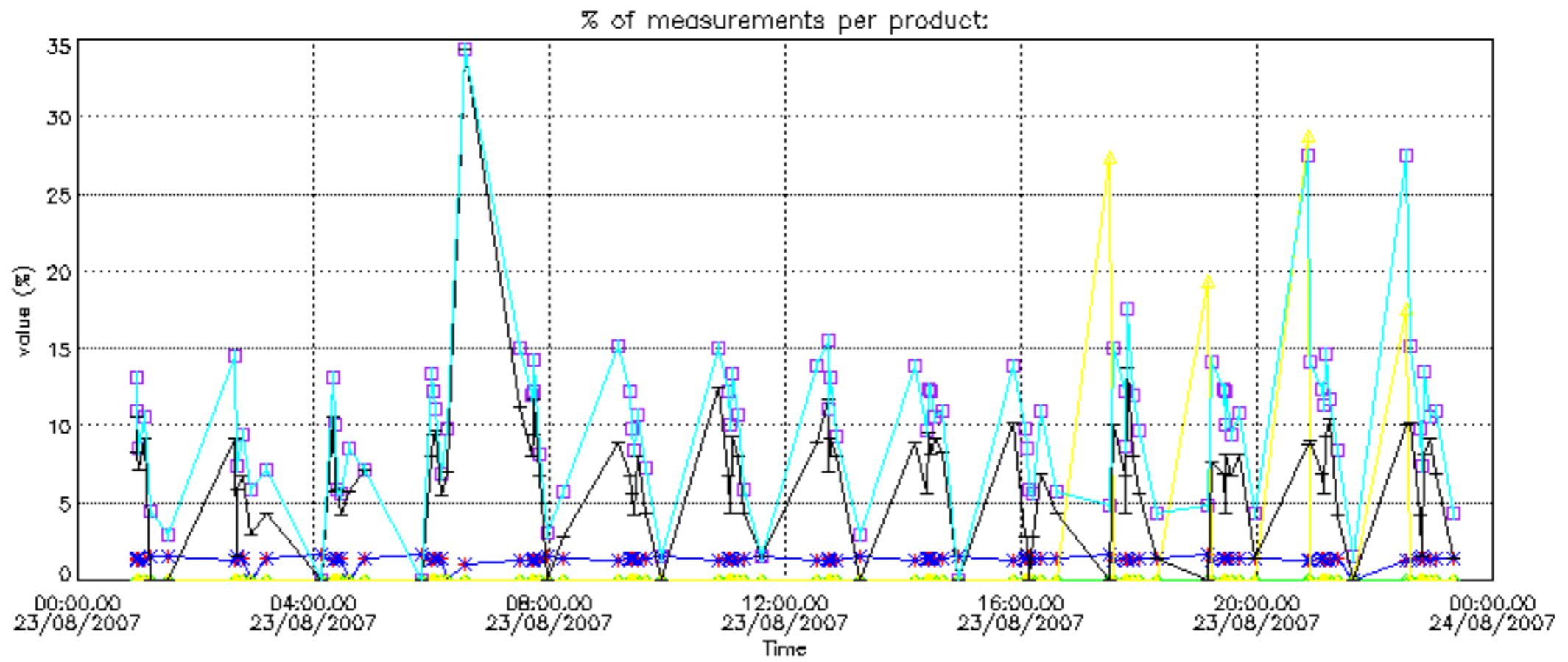
Percentage of flagged data per NO2 profile



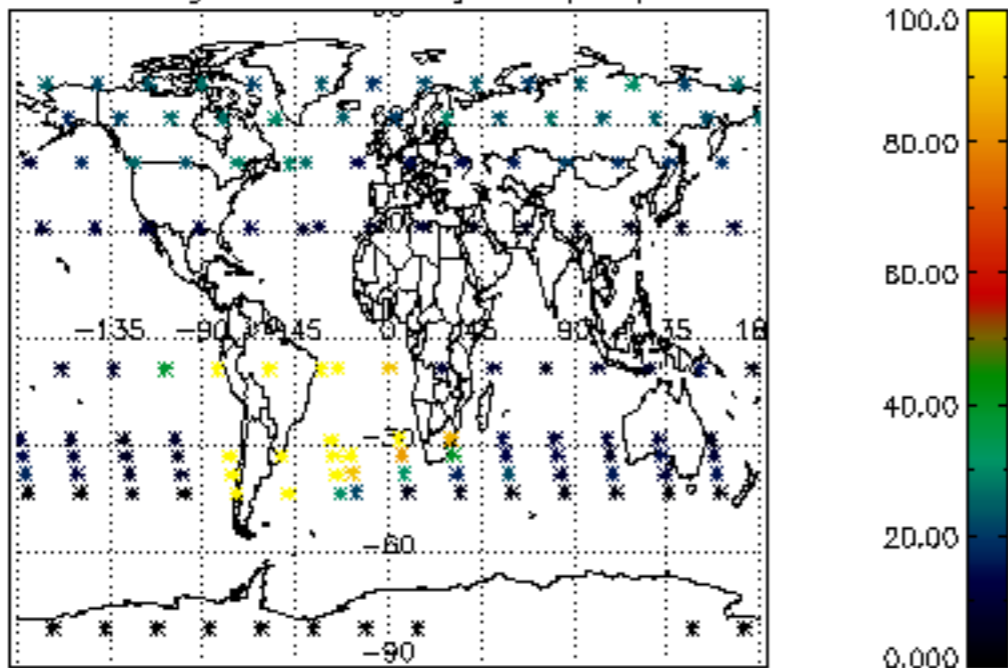
Percentage of flagged data per NO3 profile



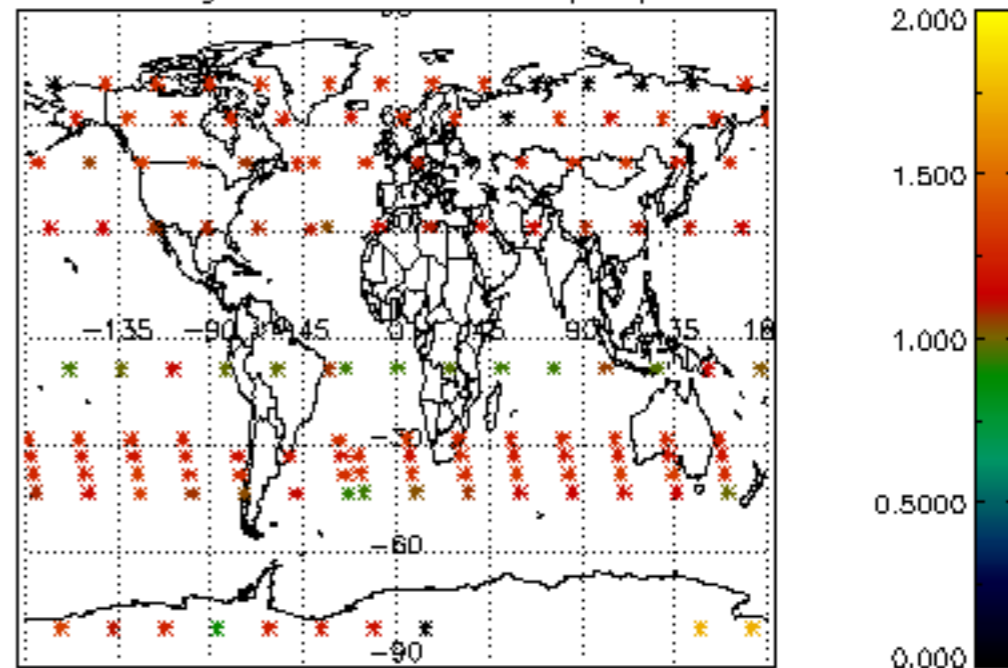




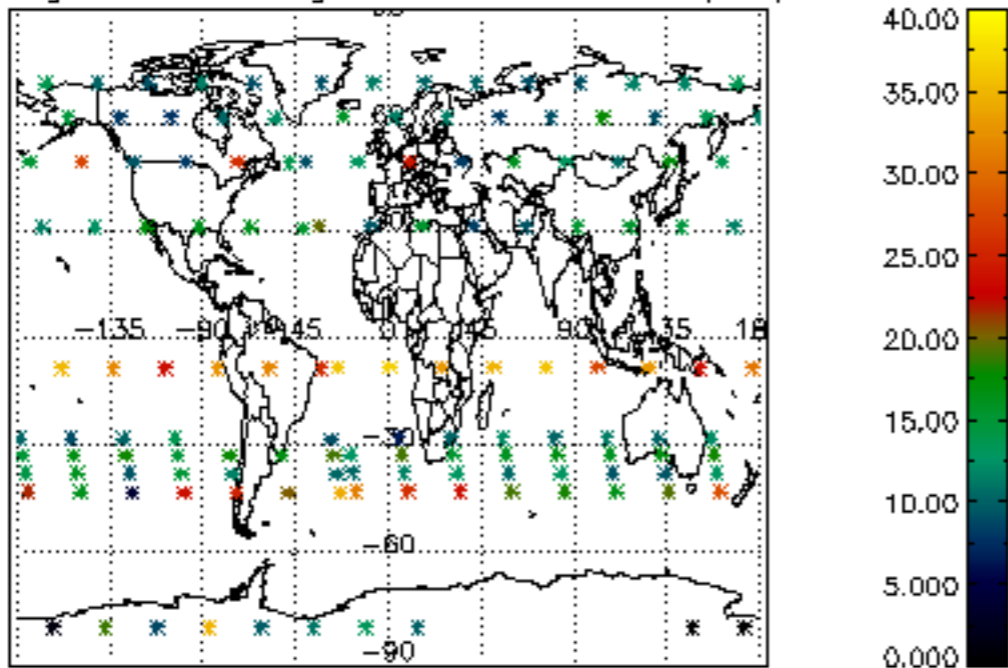
Percentage of cosmic ray hits per profile



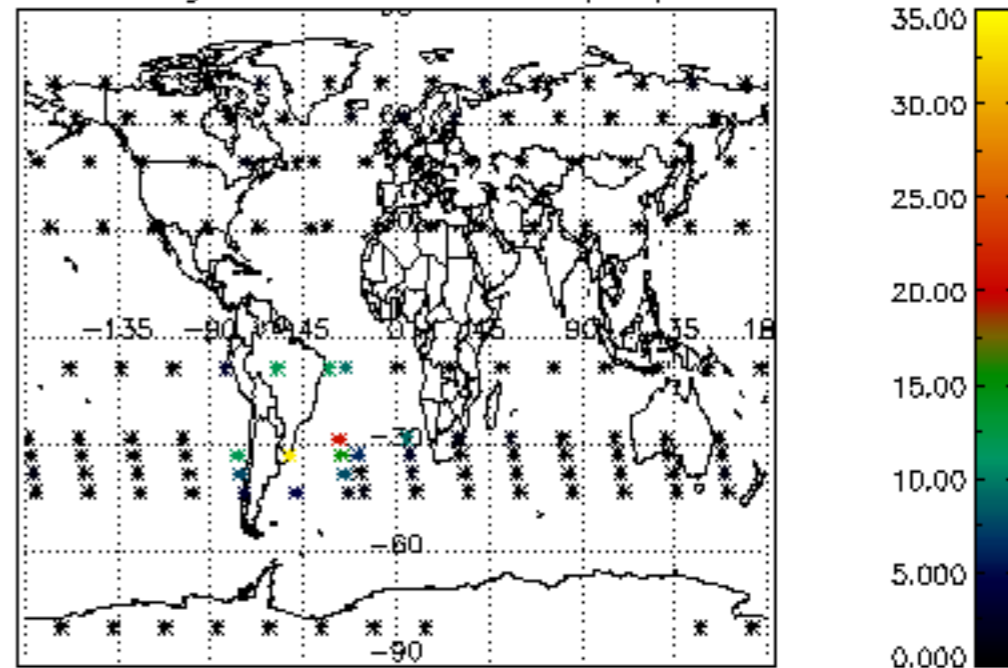
Percentage of datation errors per profile



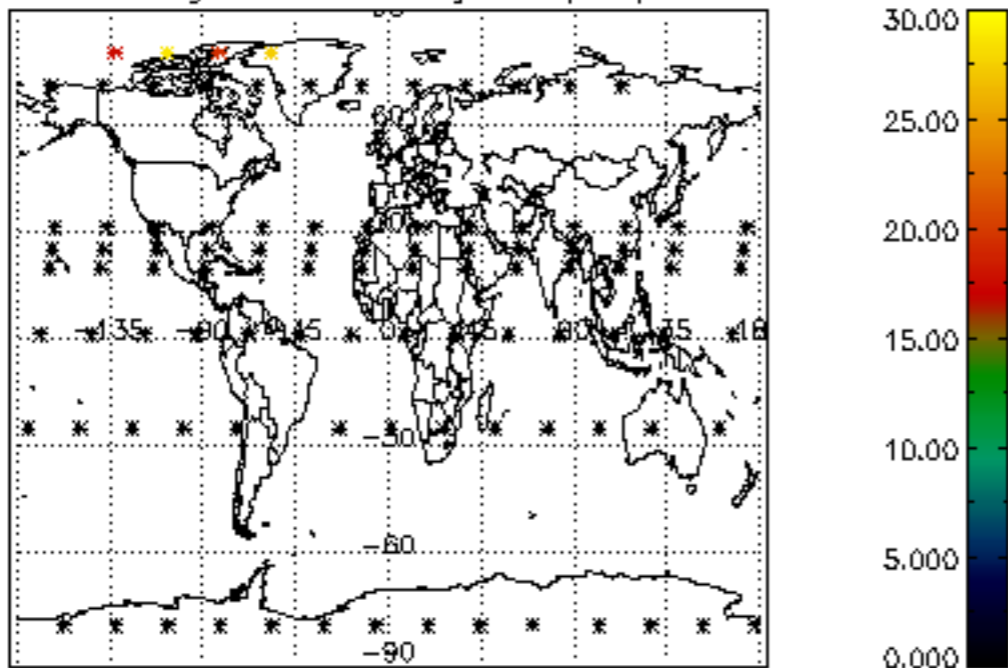
Percentage of star falling outside central band per profile



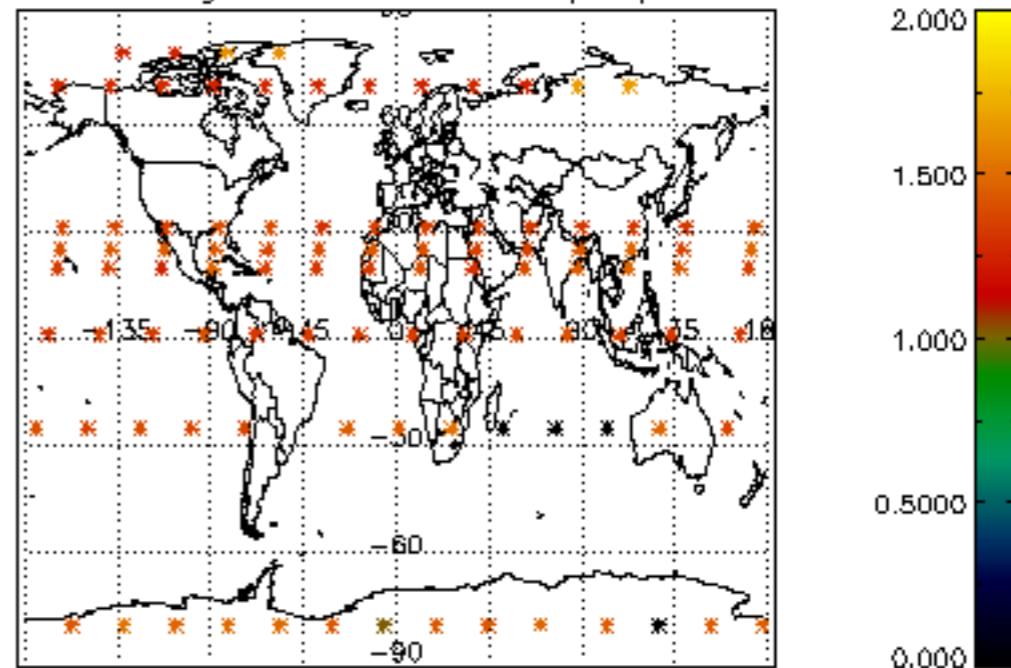
Percentage of saturation errors per profile



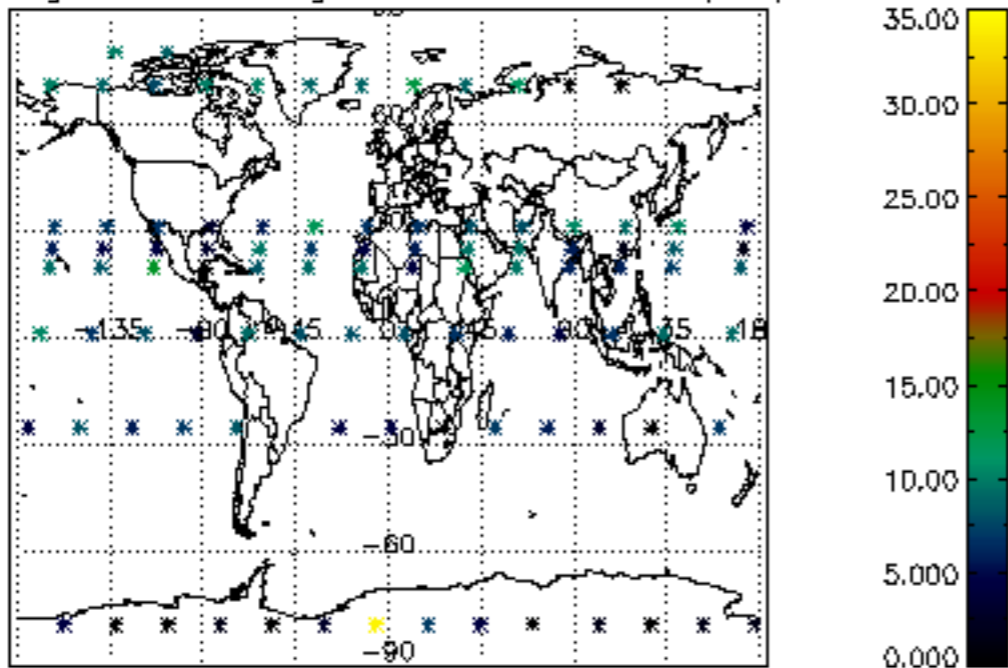
Percentage of cosmic ray hits per profile



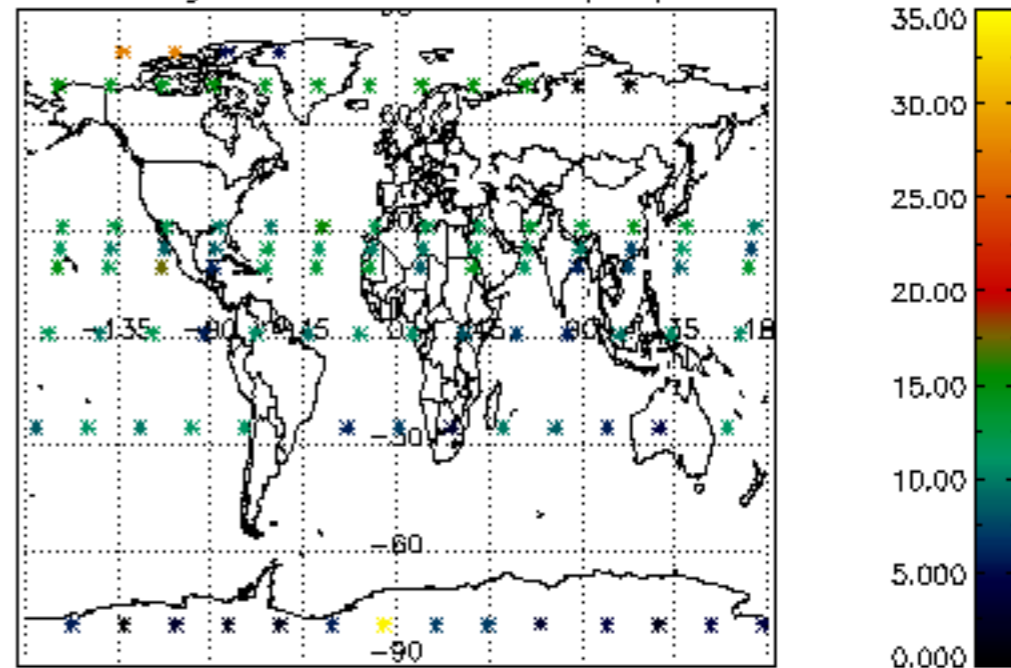
Percentage of datation errors per profile

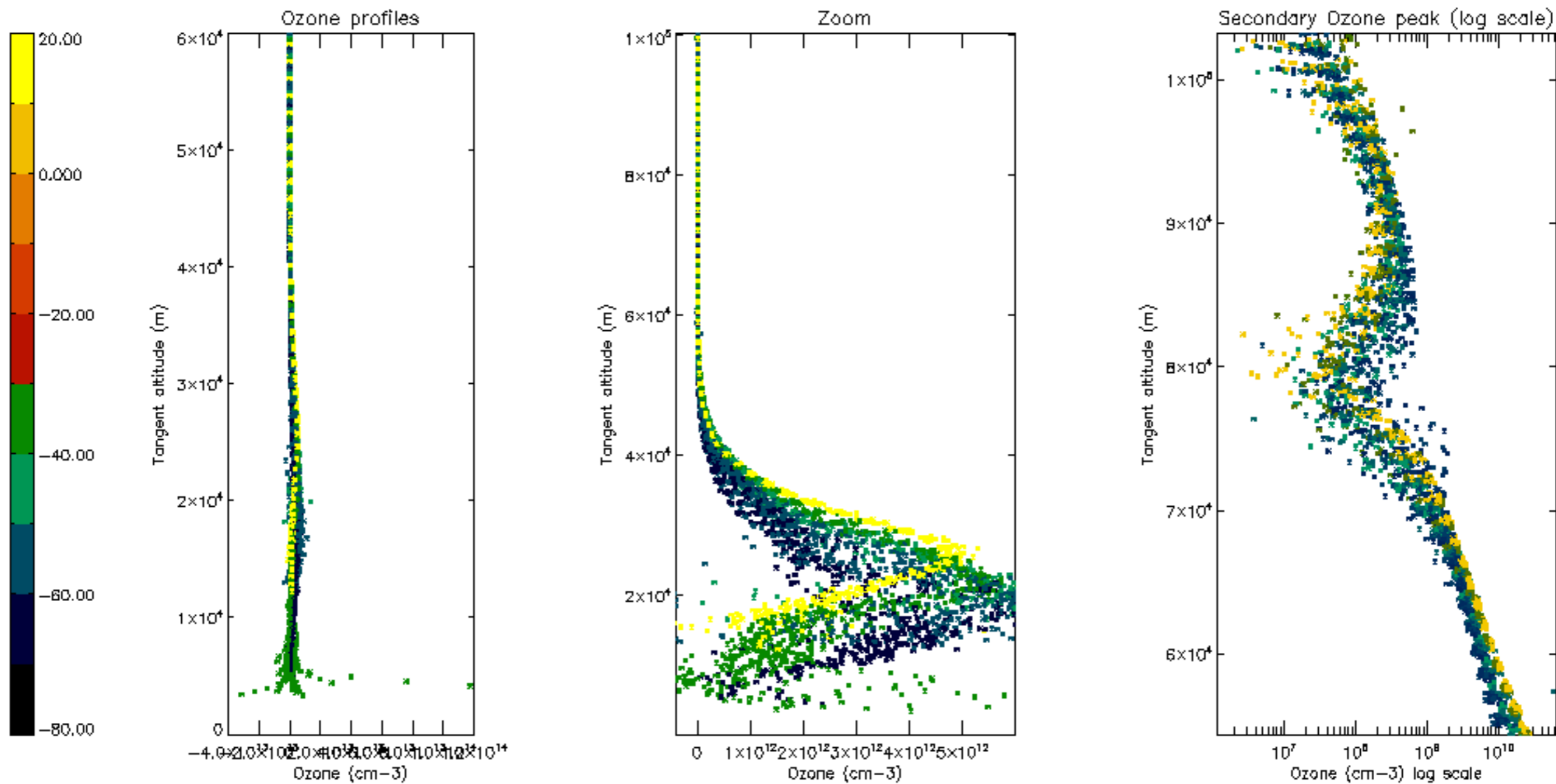


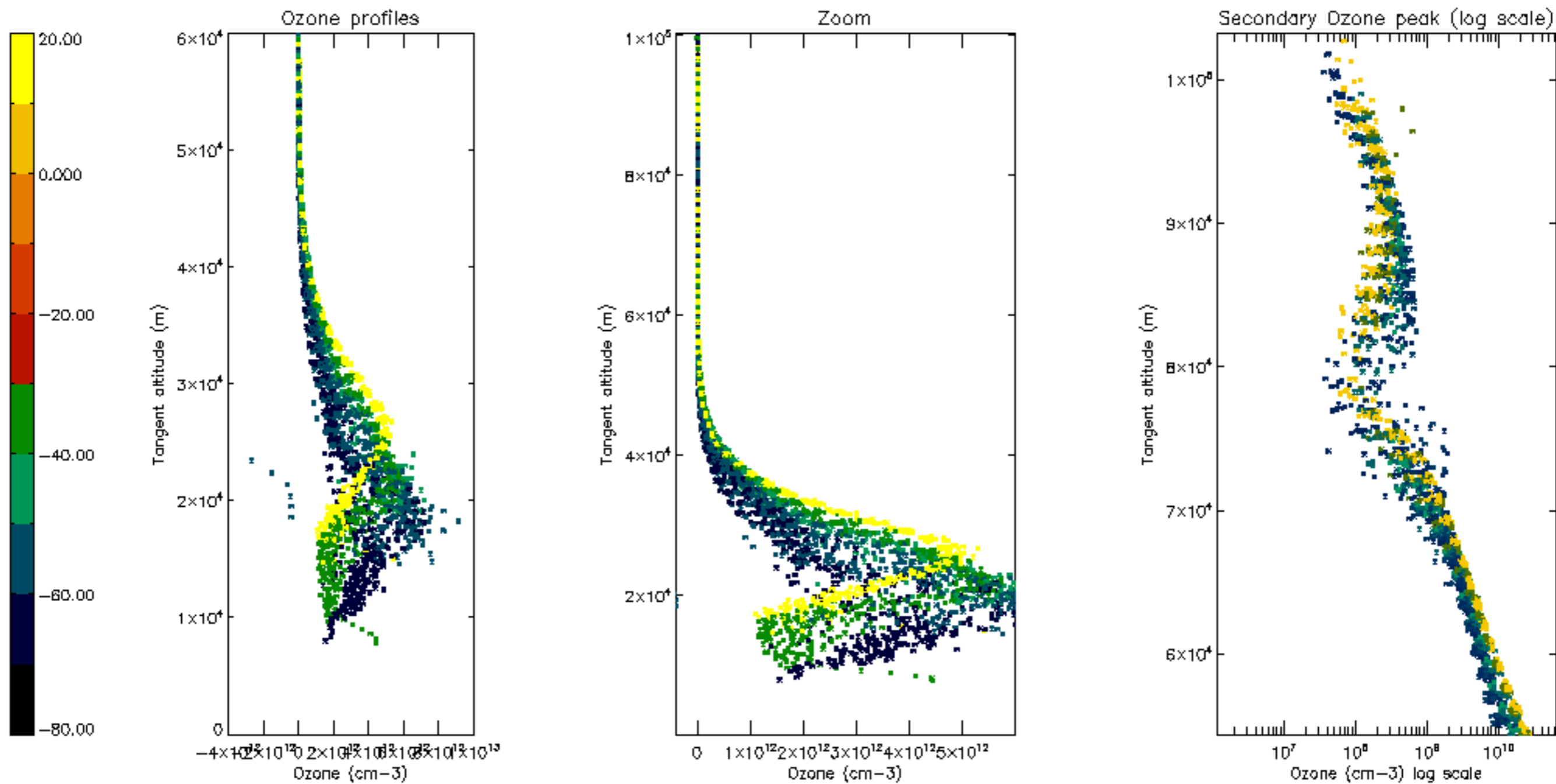
Percentage of star falling outside central band per profile

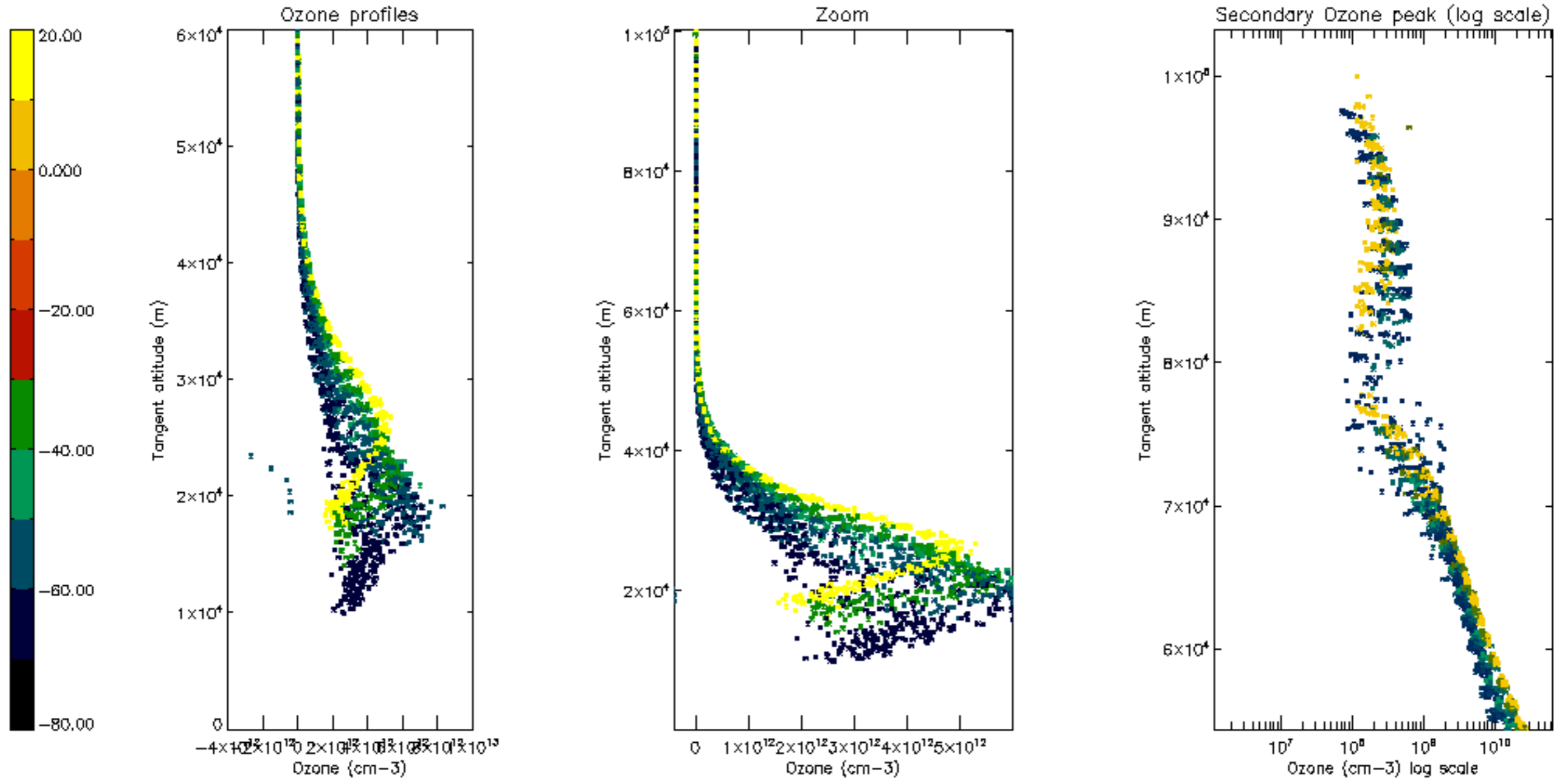


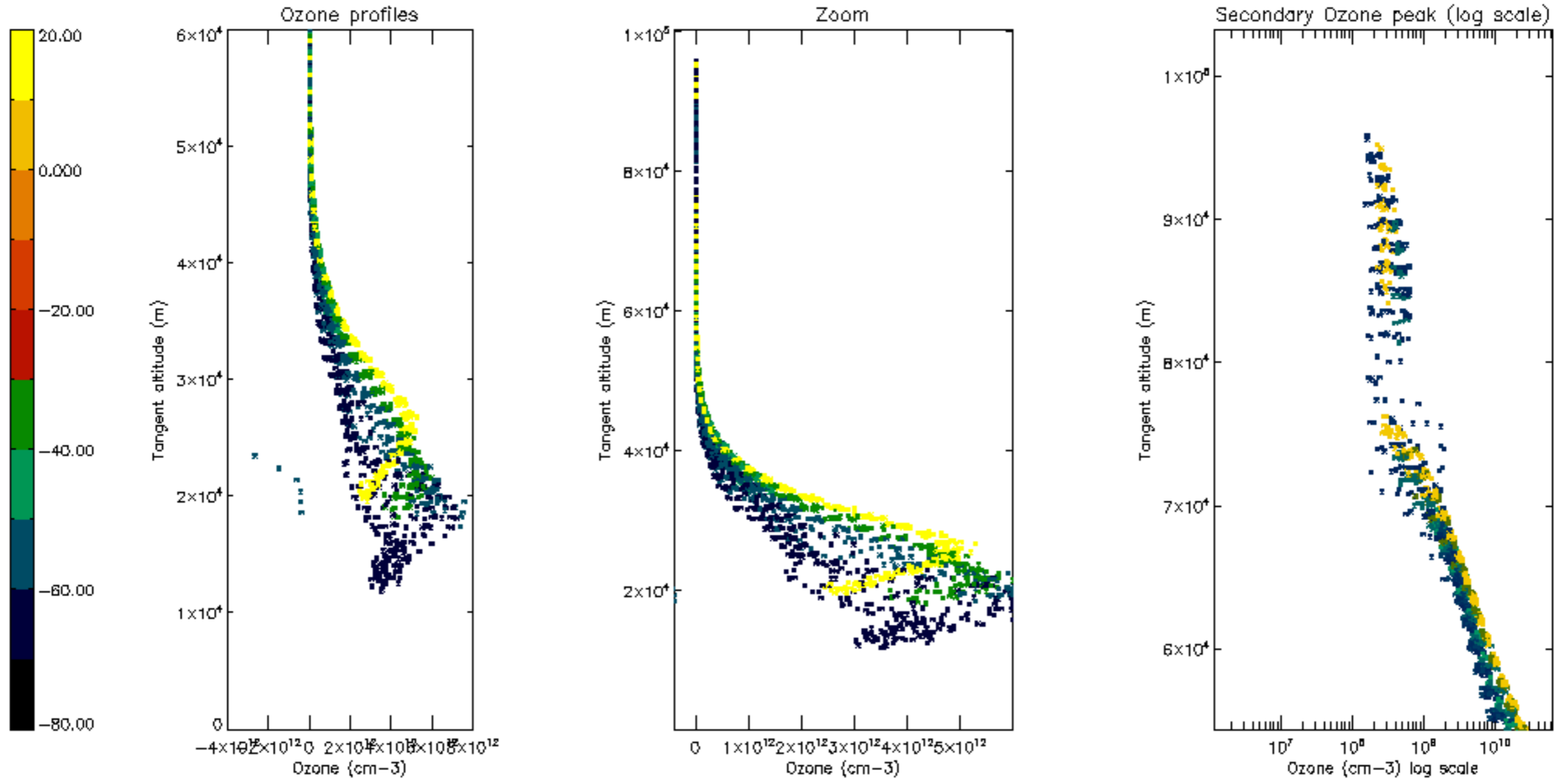
Percentage of saturation errors per profile

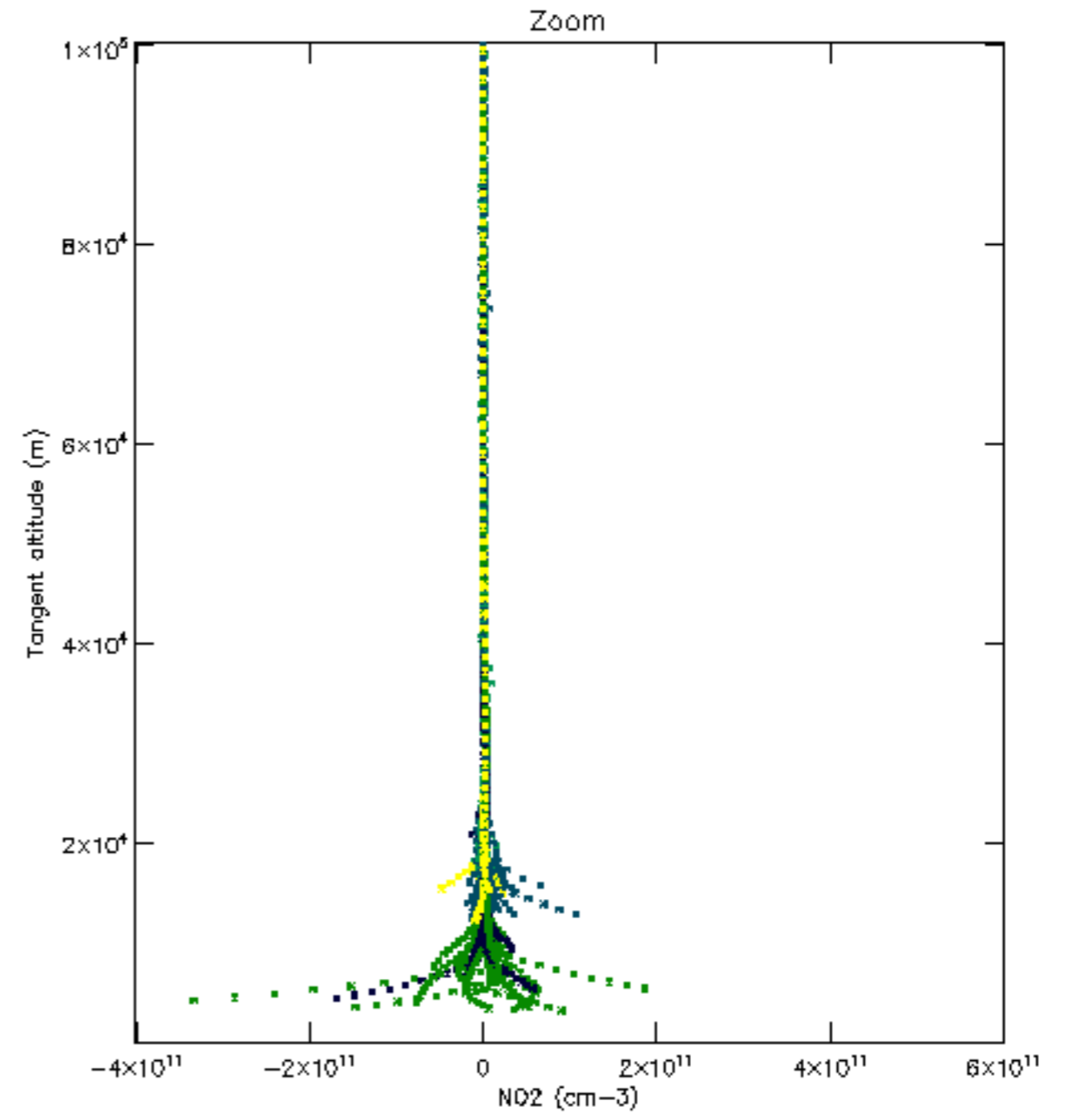
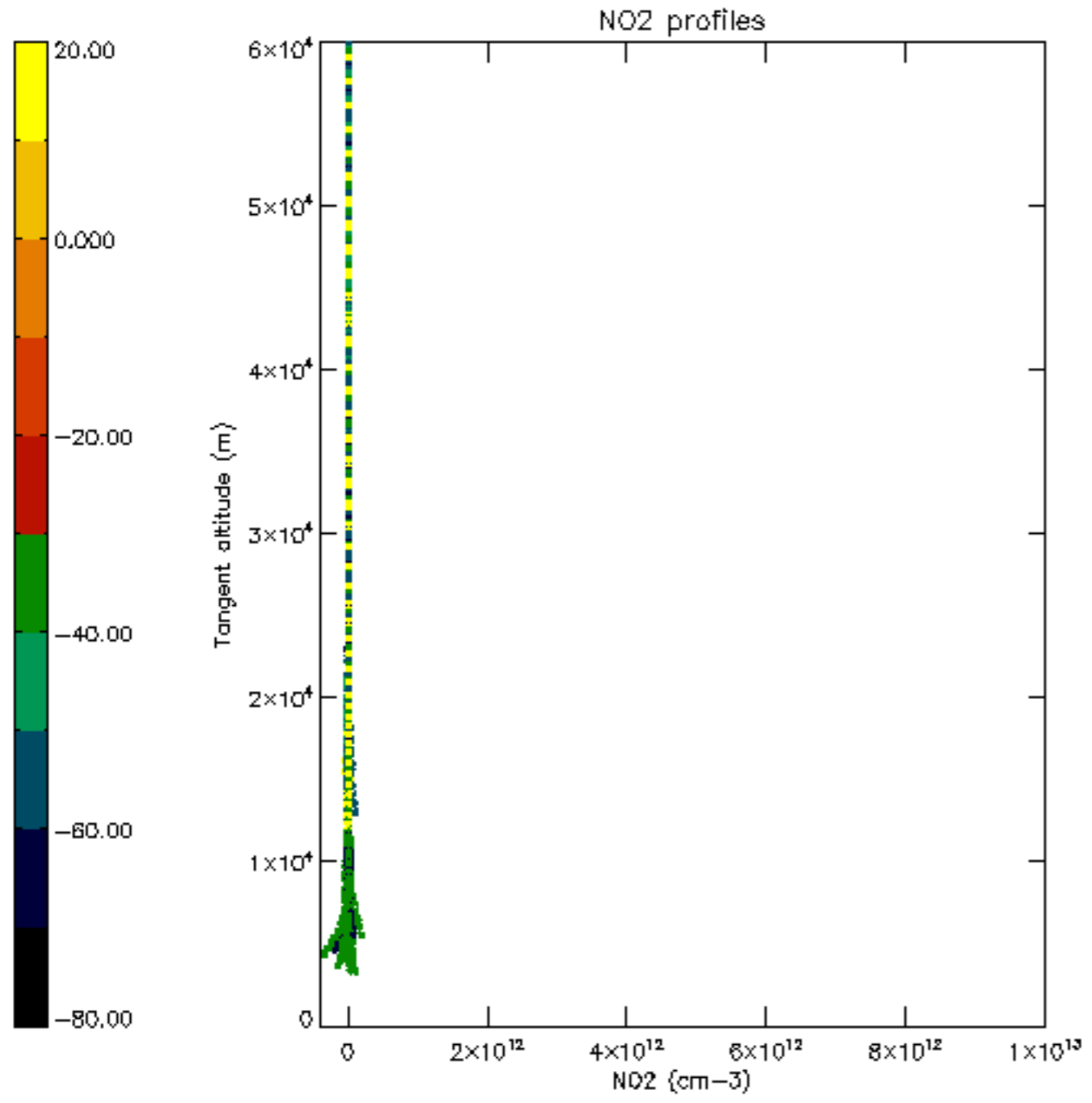


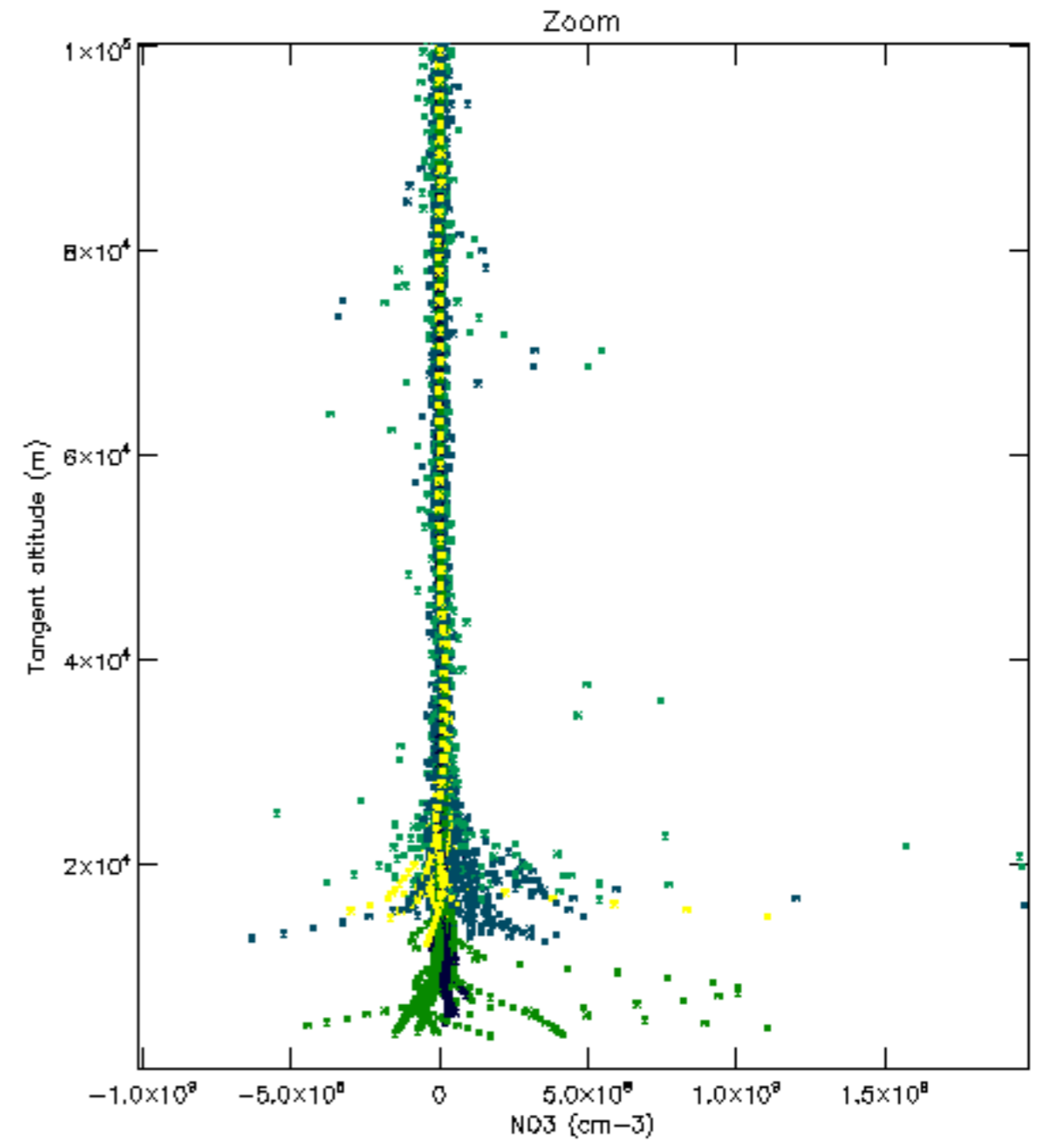
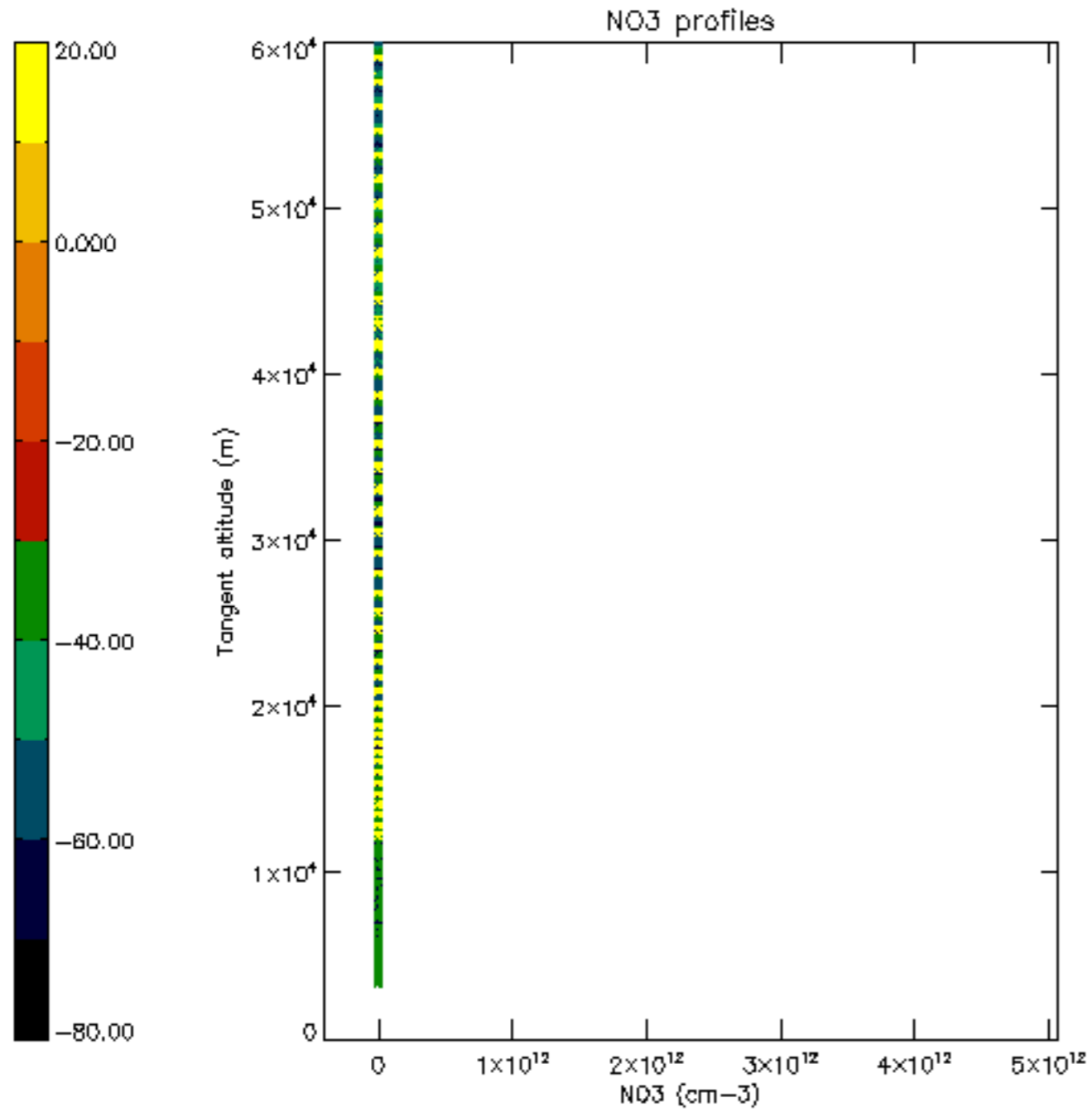


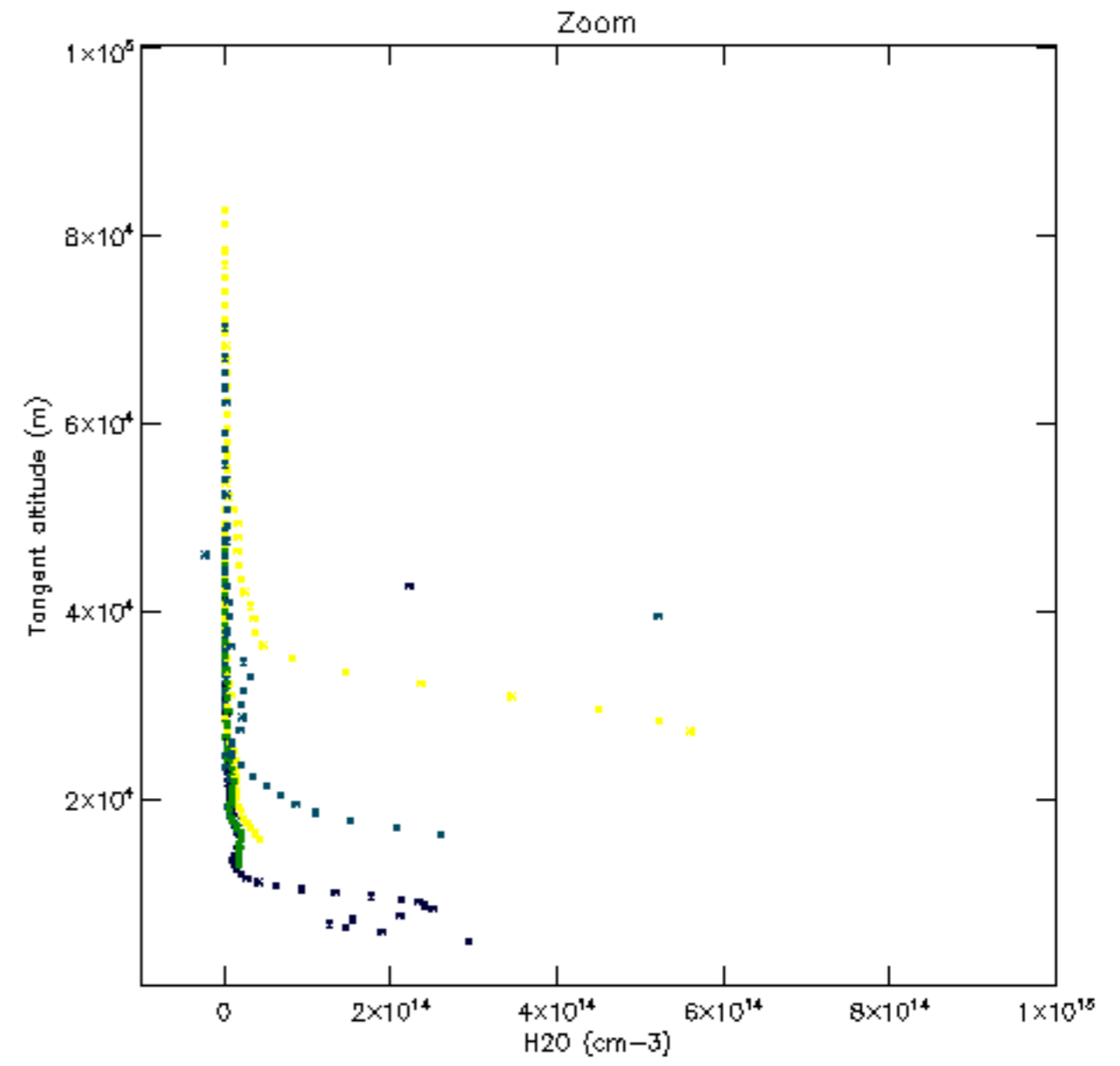
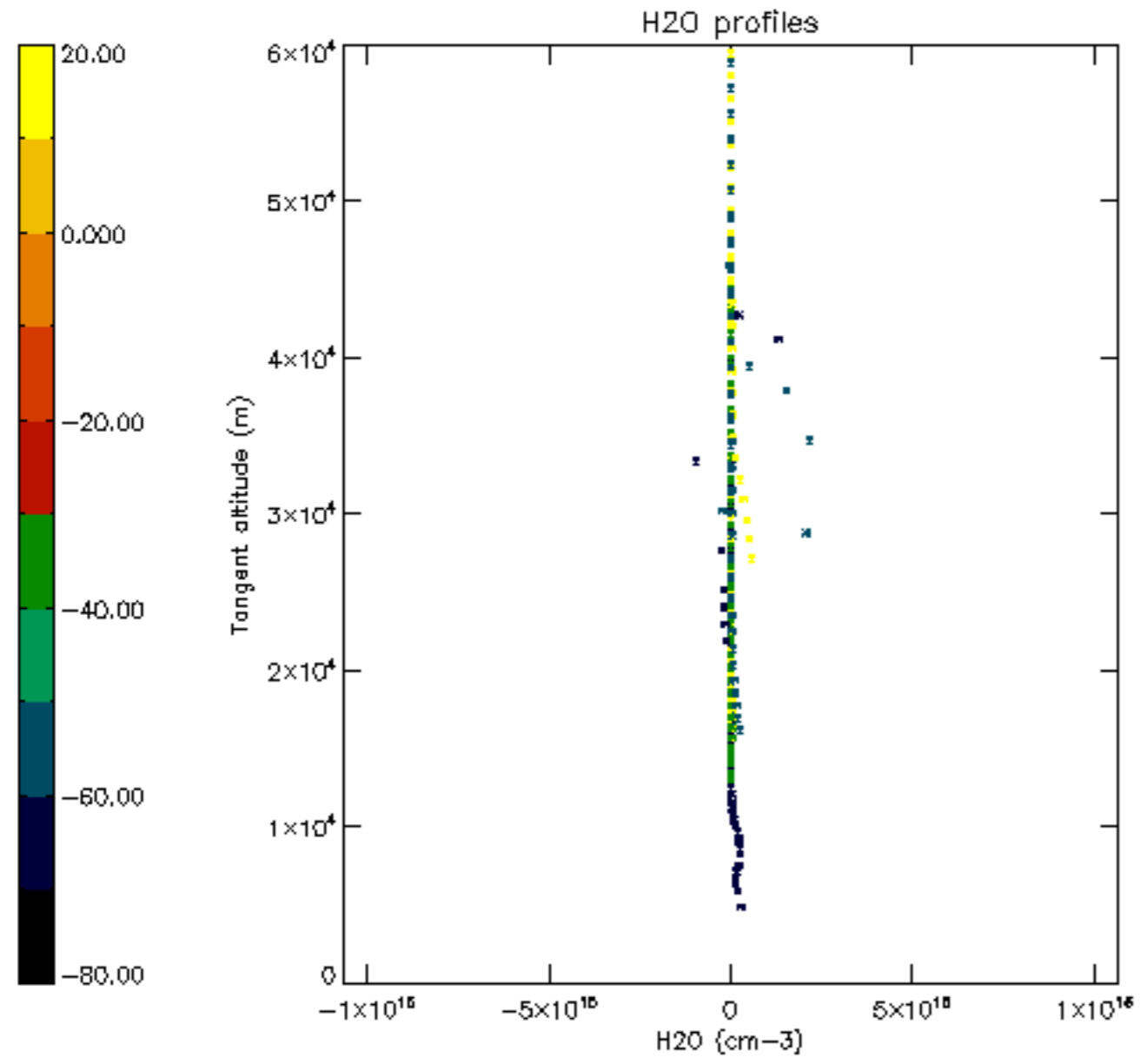


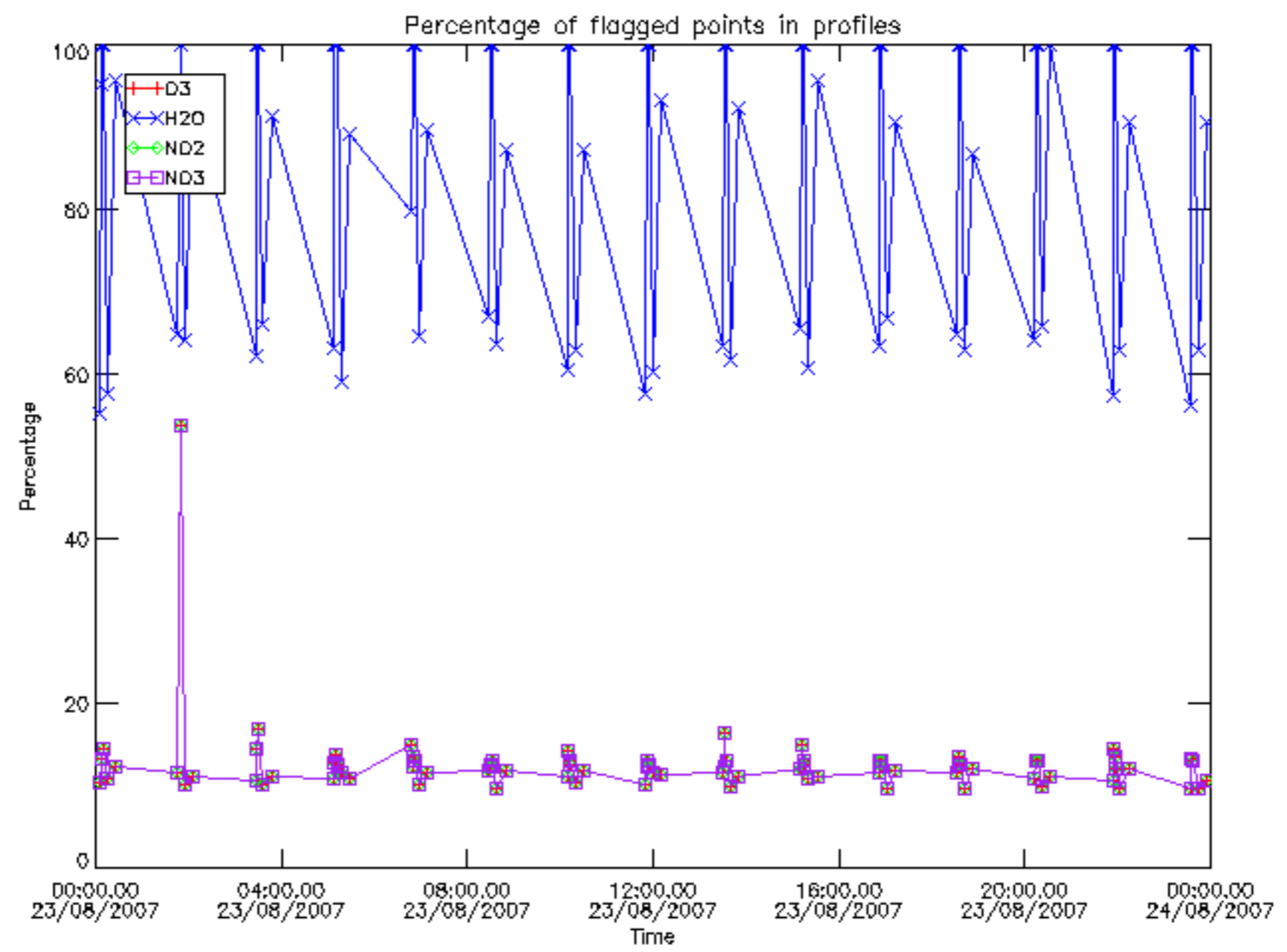




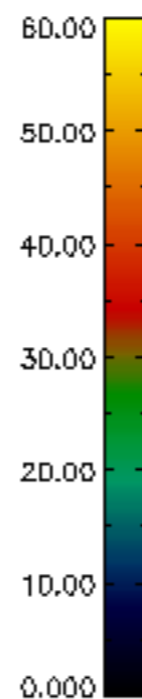
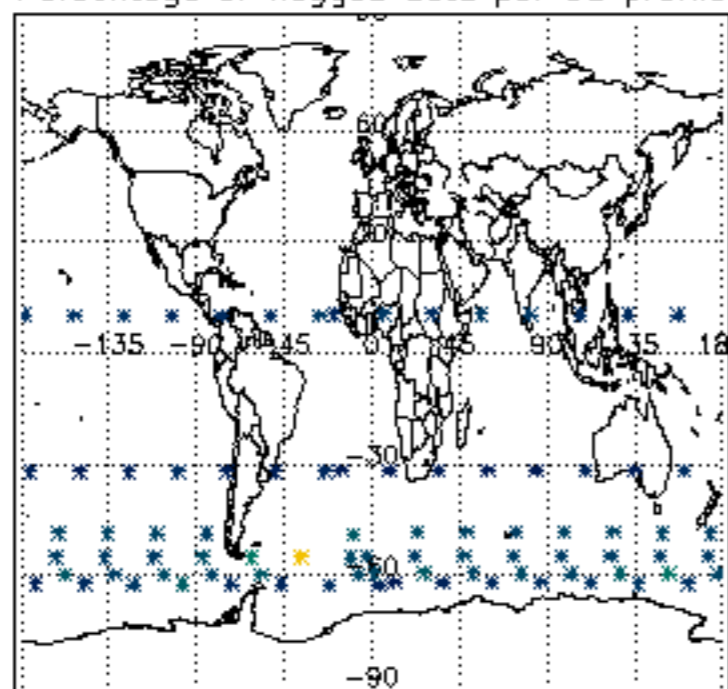




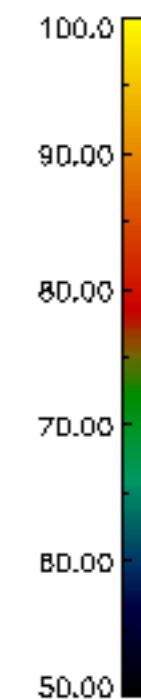
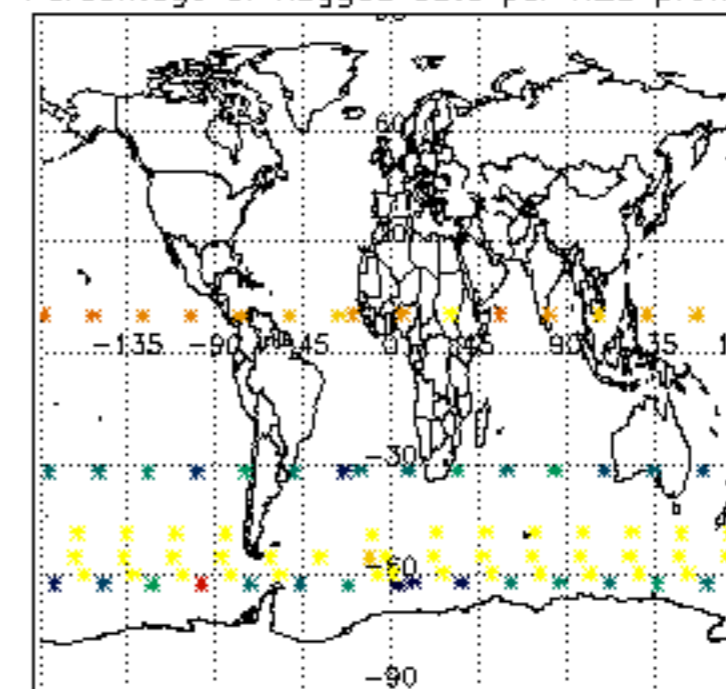




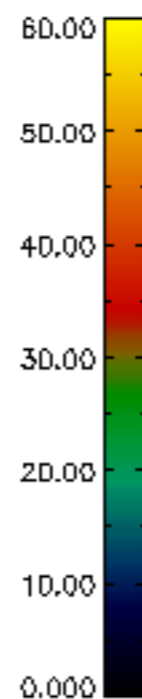
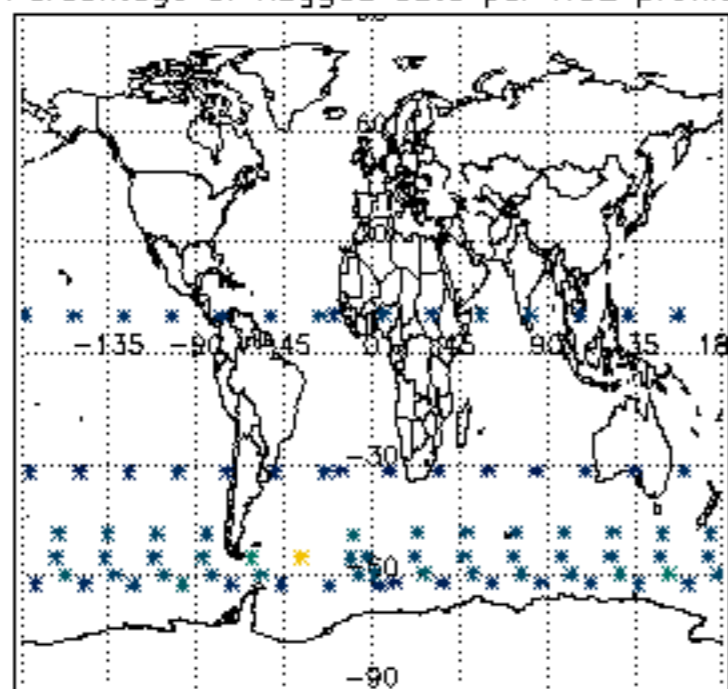
Percentage of flagged data per D3 profile



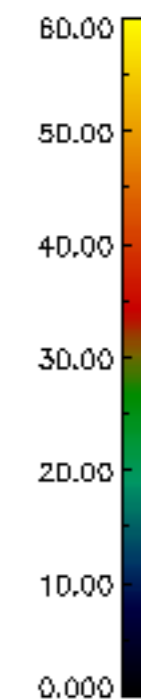
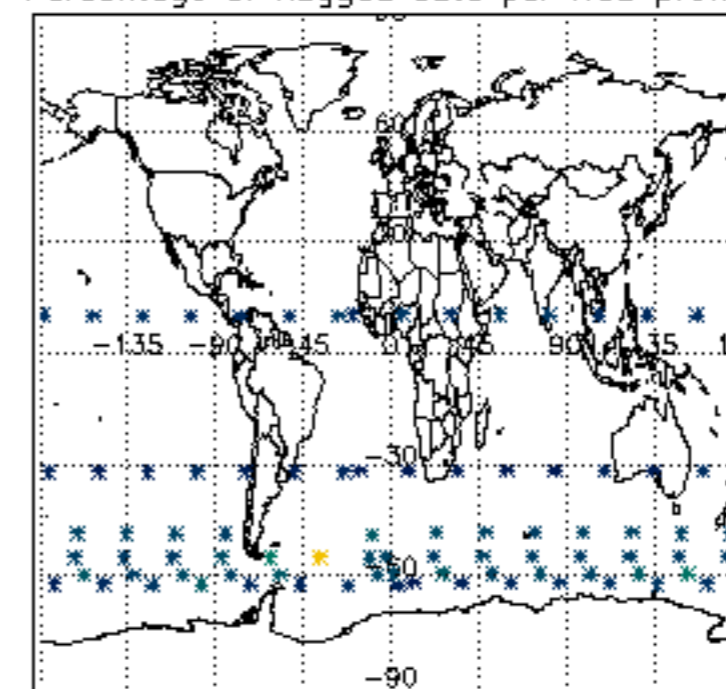
Percentage of flagged data per H2O profile

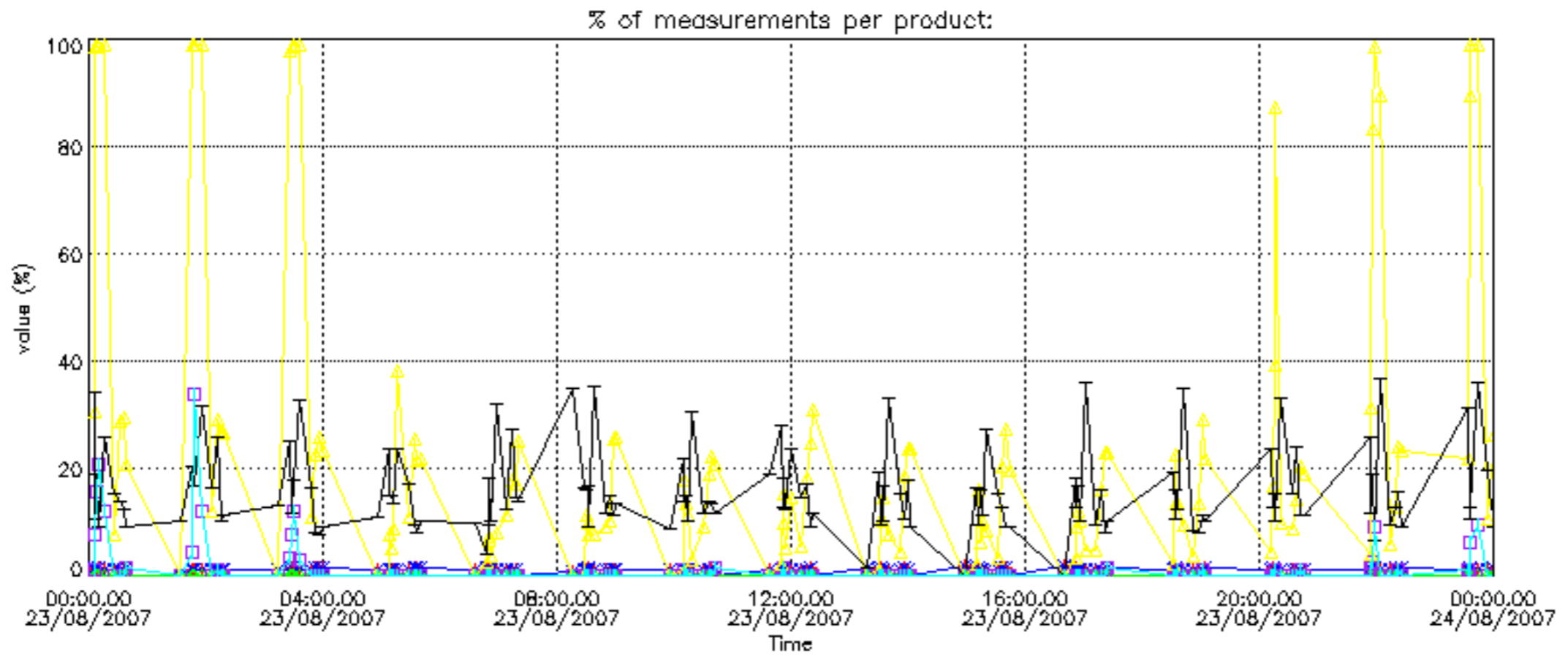


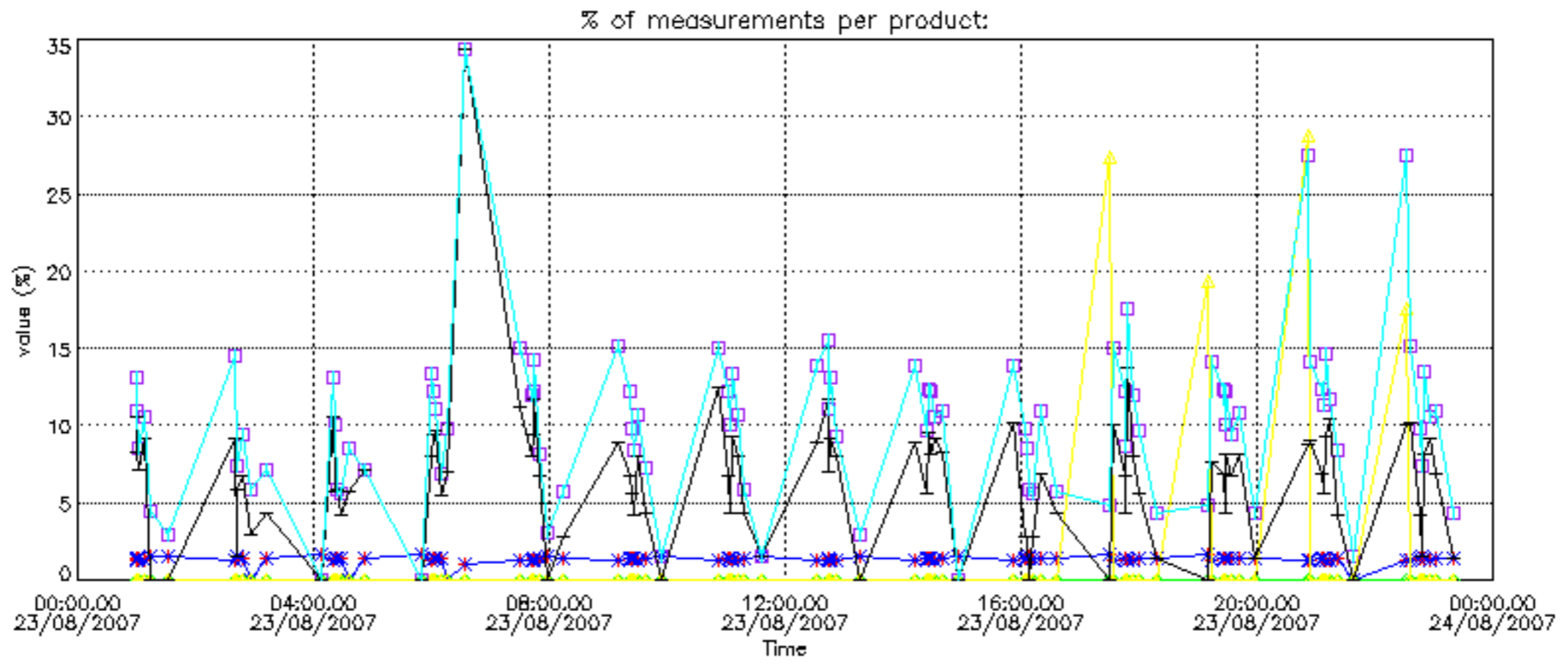
Percentage of flagged data per NO2 profile



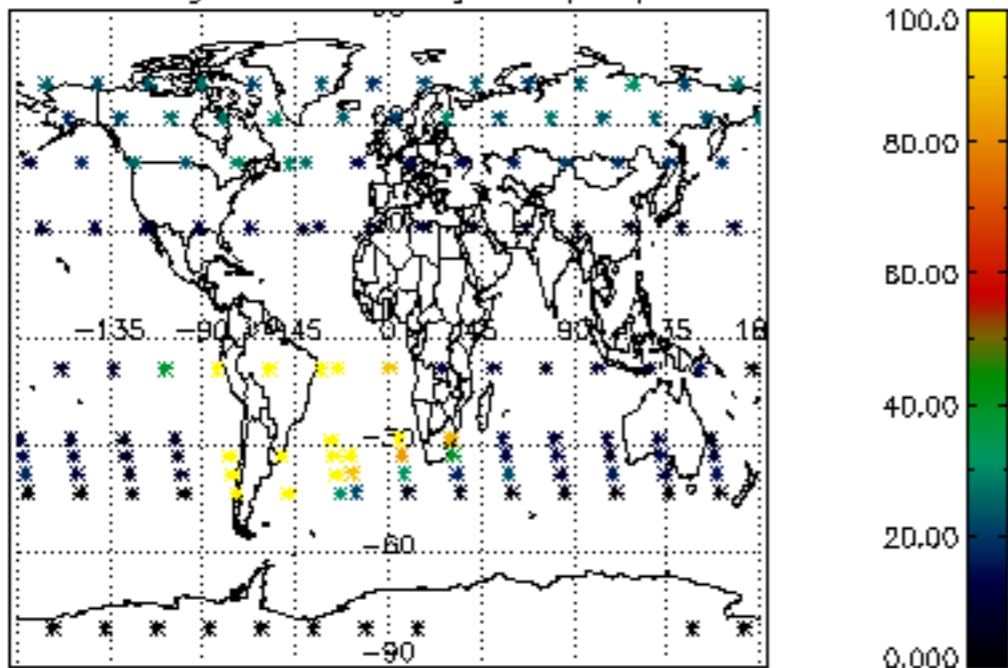
Percentage of flagged data per NO3 profile



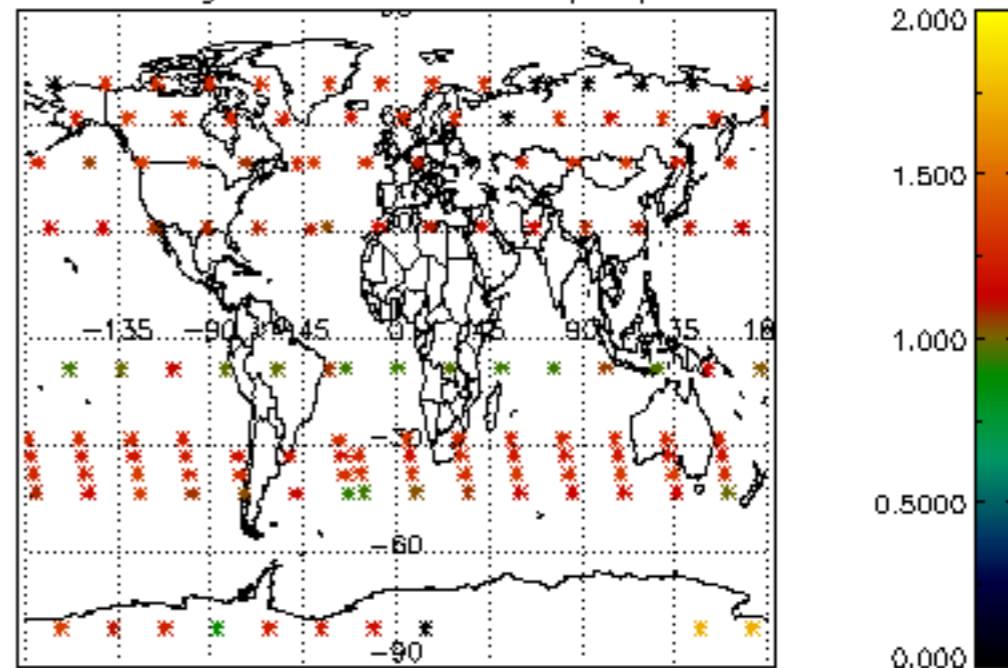




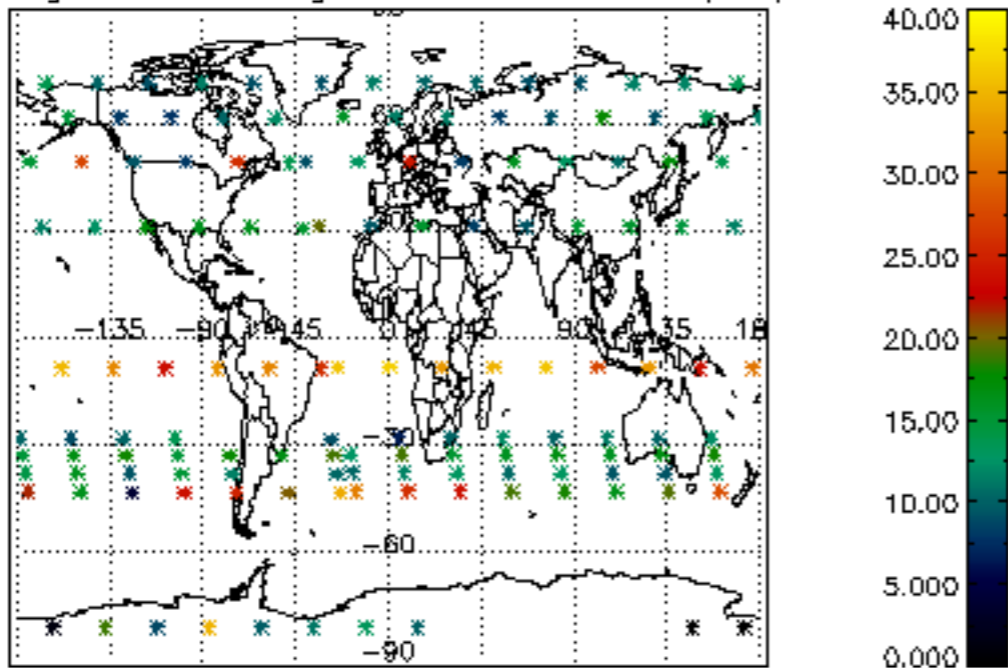
Percentage of cosmic ray hits per profile



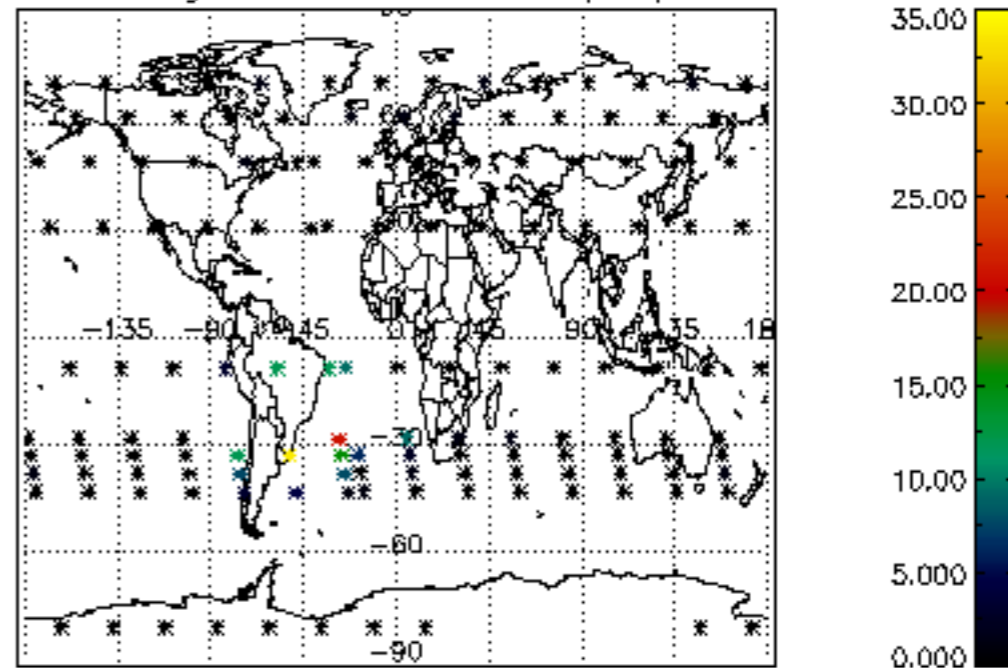
Percentage of datation errors per profile



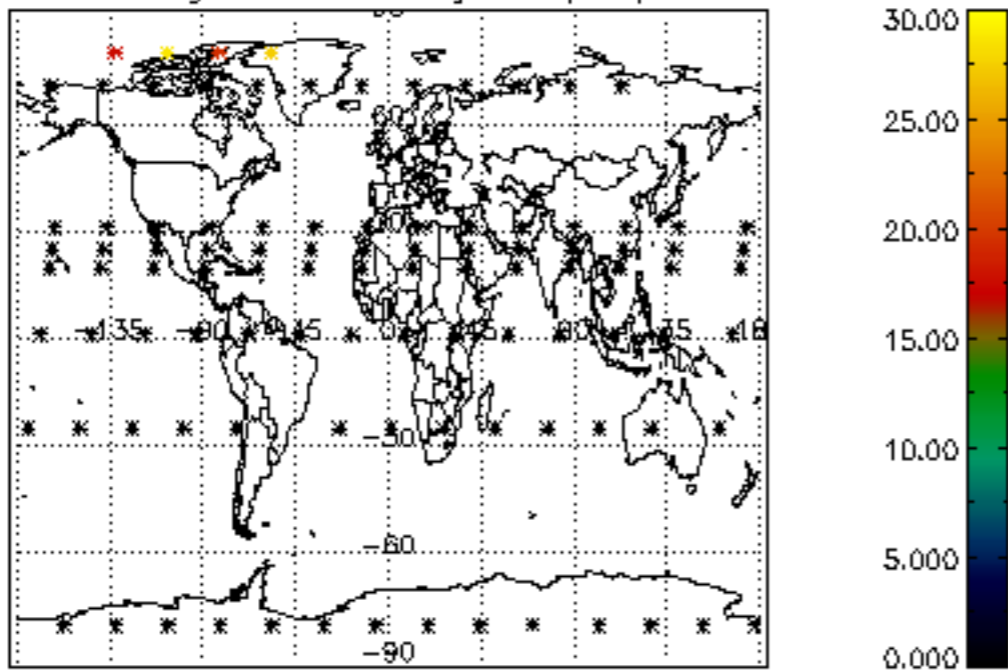
Percentage of star falling outside central band per profile



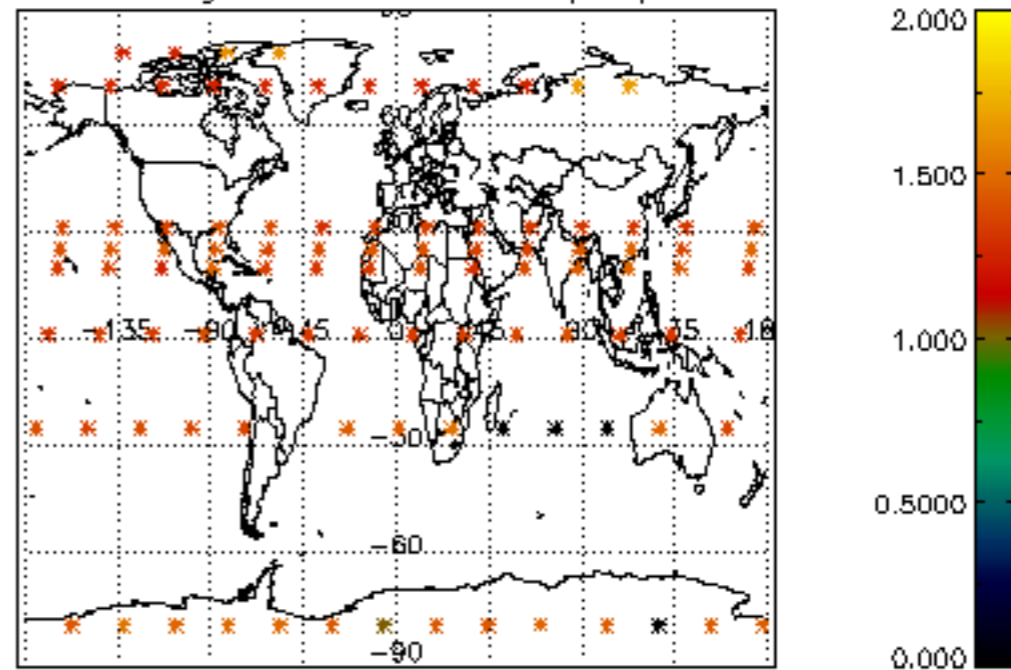
Percentage of saturation errors per profile



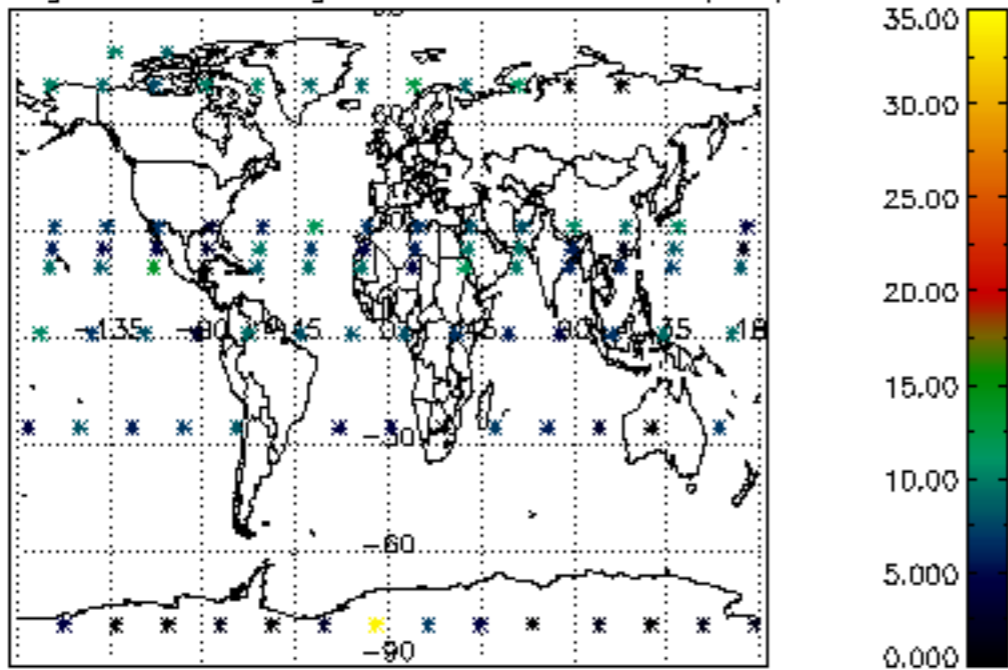
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

