

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	22APR2013 10:44:12
Data source version	GOMOS/6.01
Start time of products	23-12-2004 (23DEC2004 00:00:00)
Stop time of products	24-12-2004 (24DEC2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	401
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

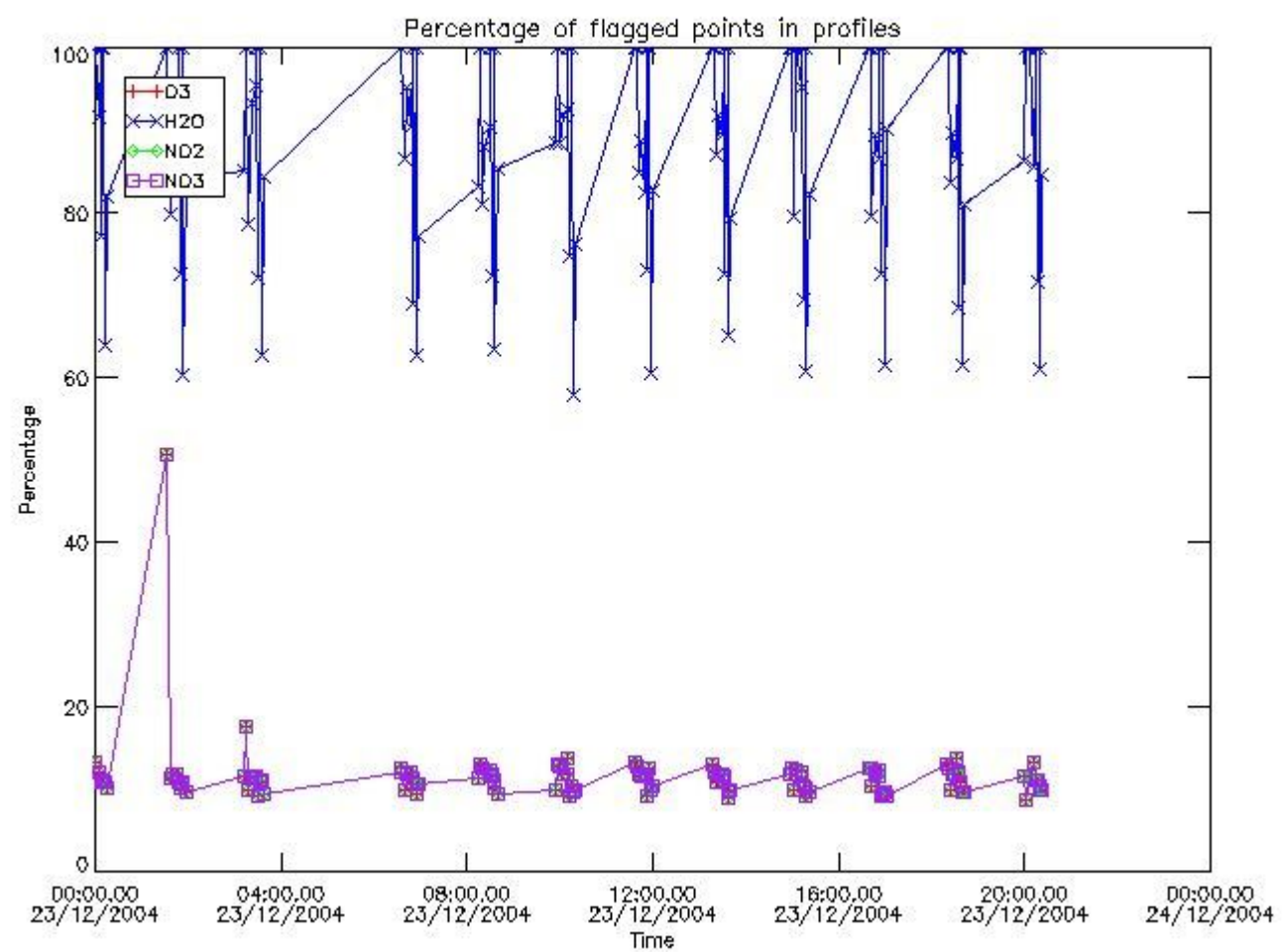
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20041223_000052_000000392033_00131_14714_7571.N1	23-DEC-2004 00:00:52	Dark	38.500	112	Alp Mus	2.6880	26000.	77	14714	No
2	GOM_NL__2PRFIN20041223_000543_000000432033_00131_14714_7572.N1	23-DEC-2004 00:05:43	Dark	42.500	29	Bet Car	1.6720	10200.	85	14714	No
3	GOM_NL__2PRFIN20041223_000706_000000462033_00131_14714_7573.N1	23-DEC-2004 00:07:06	Dark	45.500	91	Kap Vel	2.4900	26000.	91	14714	No
4	GOM_NL__2PRFIN20041223_000829_000000472033_00131_14714_7574.N1	23-DEC-2004 00:08:29	Dark	46.500	41	Eps Car	1.8600	4100.0	93	14714	No
5	GOM_NL__2PRFIN20041223_001130_000000482033_00131_14714_7575.N1	23-DEC-2004 00:11:30	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	14714	No
6	GOM_NL__2PRFIN20041223_001307_000000482033_00131_14714_7576.N1	23-DEC-2004 00:13:07	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	14714	No
7	GOM_NL__2PRFIN20041223_001606_000000512033_00131_14714_7577.N1	23-DEC-2004 00:16:06	Dark	50.500	117	Pi Pup	2.7060	3800.0	101	14714	No
8	GOM_NL__2PRFIN20041223_001907_000000552033_00131_14714_7578.N1	23-DEC-2004 00:19:07	Straylight	54.500	23	21Eps CMa	1.5020	26000.	109	14714	No
9	GOM_NL__2PRFIN20041223_002049_000000522033_00131_14714_7579.N1	23-DEC-2004 00:20:49	Straylight	51.500	179	24Omi2CMa	3.0320	24000.	103	14714	No
10	GOM_NL__2PRFIN20041223_002332_000000602033_00131_14714_7580.N1	23-DEC-2004 00:23:32	Straylight	59.500	1	9Alp CMa	-1.4400	11000.	119	14714	No
11	GOM_NL__2PRFIN20041223_002639_000000512033_00131_14714_7581.N1	23-DEC-2004 00:26:39	Straylight	51.000	7	19Bet Ori	0.10000	14000.	102	14714	No
12	GOM_NL__2PRFIN20041223_002844_000000462033_00131_14714_7582.N1	23-DEC-2004 00:28:44	Straylight	46.000	30	46Eps Ori	1.6940	30000.	92	14714	No
13	GOM_NL__2PRFIN20041223_003132_000000572033_00131_14714_7583.N1	23-DEC-2004 00:31:32	Twilight_stray	57.000	14	58Alp Ori	0.87000	3000.0	114	14714	No
14	GOM_NL__2PRFIN20041223_003352_000000492033_00131_14714_7584.N1	23-DEC-2004 00:33:52	Twilight_stray	49.000	13	87Alp Tau	0.86700	3800.0	98	14714	No
15	GOM_NL__2PRFIN20041223_003536_000000422033_00131_14714_7585.N1	23-DEC-2004 00:35:36	Bright	42.000	176	23Zet Tau	3.0200	22000.	84	14714	No
16	GOM_NL__2PRFIN20041223_003741_000000442033_00131_14714_7586.N1	23-DEC-2004 00:37:41	Bright	43.500	28	12Bet Tau	1.6500	15200.	87	14714	No
17	GOM_NL__2PRFIN20041223_004038_000000372033_00131_14714_7587.N1	23-DEC-2004 00:40:38	Bright	36.500	149	45Eps Per	2.8880	30000.	73	14714	No
18	GOM_NL__2PRFIN20041223_004237_000000462033_00131_14714_7588.N1	23-DEC-2004 00:42:37	Bright	45.500	6	13Alp Aur	0.080000	3400.0	91	14714	No
19	GOM_NL__2PRFIN20041223_004448_000000382033_00131_14714_7589.N1	23-DEC-2004 00:44:48	Bright	38.000	160	23Gam Per	2.9300	4700.0	76	14714	No
20	GOM_NL__2PRFIN20041223_004822_000000392033_00131_14714_7590.N1	23-DEC-2004 00:48:22	Bright	38.500	110	37Del Cas	2.6780	8900.0	77	14714	No
21	GOM_NL__2PRFIN20041223_005427_000000372033_00131_14714_7591.N1	23-DEC-2004 00:54:27	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	14714	No
22	GOM_NL__2PRFIN20041223_005906_000000392033_00131_14714_7592.N1	23-DEC-2004 00:59:06	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	14714	No
23	GOM_NL__2PRFIN20041223_010238_000000382033_00131_14714_7593.N1	23-DEC-2004 01:02:38	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	14714	No
24	GOM_NL__2PRFIN20041223_010409_000000442033_00131_14714_7594.N1	23-DEC-2004 01:04:09	Bright	44.000	55	79Zet UMa	2.0600	10200.	88	14714	No
25	GOM_NL__2PRFIN20041223_010613_000000452033_00131_14714_7595.N1	23-DEC-2004 01:06:13	Bright	44.500	39	85Eta UMa	1.8540	24000.	89	14714	No
26	GOM_NL__2PRFIN20041223_010951_000000572033_00131_14714_7596.N1	23-DEC-2004 01:09:51	Bright	57.000	180	27Gam Boo	3.0400	8000.0	114	14714	No
27	GOM_NL__2PRFIN20041223_011314_000000402033_00131_14714_7597.N1	23-DEC-2004 01:13:14	Bright	40.000	83		2.3780	11000.	80	14714	No
28	GOM_NL__2PRFIN20041223_011652_000000662033_00131_14714_7598.N1	23-DEC-2004 01:16:52	Bright	66.000	111	8Eta Boo	2.6800	6000.0	132	14714	No
29	GOM_NL__2PRFIN20041223_012139_000000692033_00131_14714_7599.N1	23-DEC-2004 01:21:39	Twilight_stray	69.000	138	47Eps Vir	2.8280	4700.0	138	14714	No
30	GOM_NL__2PRFIN20041223_012536_000000512033_00131_14714_7600.N1	23-DEC-2004 01:25:36	Bright	51.000	122	9Alp2Lib	2.7470	9700.0	102	14714	No
31	GOM_NL__2PRFIN20041223_012740_000000612033_00131_14714_7601.N1	23-DEC-2004 01:27:40	Twilight_stray	61.000	15	67Alp Vir	0.97600	28000.	122	14714	No
32	GOM_NL__2PRFIN20041223_013110_000000502033_00131_14714_7602.N1	23-DEC-2004 01:31:10	Dark	50.000	169	46Gam Hya	2.9910	4700.0	100	14714	No
33	GOM_NL__2PRFIN20041223_013726_000000452033_00131_14714_7603.N1	23-DEC-2004 01:37:26	Dark	45.000	4	Alp1Cen	-0.010000	5800.0	90	14714	No
34	GOM_NL__2PRFIN20041223_014049_000000432033_00132_14715_7571.N1	23-DEC-2004 01:40:49	Dark	43.000	12	Alp1Cru	0.77500	30000.	86	14715	No
35	GOM_NL__2PRFIN20041223_014619_000000442033_00132_14715_7572.N1	23-DEC-2004 01:46:19	Dark	43.500	29	Bet Car	1.6720	10200.	87	14715	No
36	GOM_NL__2PRFIN20041223_014740_000000472033_00132_14715_7573.N1	23-DEC-2004 01:47:40	Dark	47.000	91	Kap Vel	2.4900	26000.	94	14715	No
37	GOM_NL__2PRFIN20041223_014905_000000552033_00132_14715_7574.N1	23-DEC-2004 01:49:05	Dark	55.000	41	Eps Car	1.8600	4100.0	110	14715	No
38	GOM_NL__2PRFIN20041223_015207_000000492033_00132_14715_7575.N1	23-DEC-2004 01:52:07	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	14715	No
39	GOM_NL__2PRFIN20041223_015343_000000472033_00132_14715_7576.N1	23-DEC-2004 01:53:43	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	14715	No
40	GOM_NL__2PRFIN20041223_015642_000000542033_00132_14715_7577.N1	23-DEC-2004 01:56:42	Dark	53.500	117	Pi Pup	2.7060	3800.0	107	14715	No
41	GOM_NL__2PRFIN20041223_015944_000000552033_00132_14715_7578.N1	23-DEC-2004 01:59:44	Straylight	55.000	23	21Eps CMa	1.5020	26000.	110	14715	No
42	GOM_NL__2PRFIN20041223_020125_000000542033_00132_14715_7579.N1	23-DEC-2004 02:01:25	Straylight	53.500	179	24Omi2CMa	3.0320	24000.	107	14715	No

397	GOM_NL__2PRFIN20041223_211703_000000402033_00143_14726_7609.N1	23-DEC-2004 21:17:03	Bright	40.000	180	27Gam Boo	3.0400	8000.0	80	14726	No
398	GOM_NL__2PRFIN20041223_212027_000000402033_00143_14726_7610.N1	23-DEC-2004 21:20:27	Bright	40.000	83		2.3780	11000.	80	14726	No
399	GOM_NL__2PRFIN20041223_212408_000000482033_00143_14726_7611.N1	23-DEC-2004 21:24:08	Bright	48.000	111	8Eta Boo	2.6800	6000.0	96	14726	No
400	GOM_NL__2PRFIN20041223_212902_000000702033_00143_14726_7612.N1	23-DEC-2004 21:29:02	Twilight_stray	69.500	138	47Eps Vir	2.8280	4700.0	139	14726	No
401	GOM_NL__2PRFIN20041223_213252_000000152033_00143_14726_7613.N1	23-DEC-2004 21:32:52	Twilight_stray	14.500	122	9Alp2Lib	2.7470	9700.0	29	14726	No

3. Quality information per product

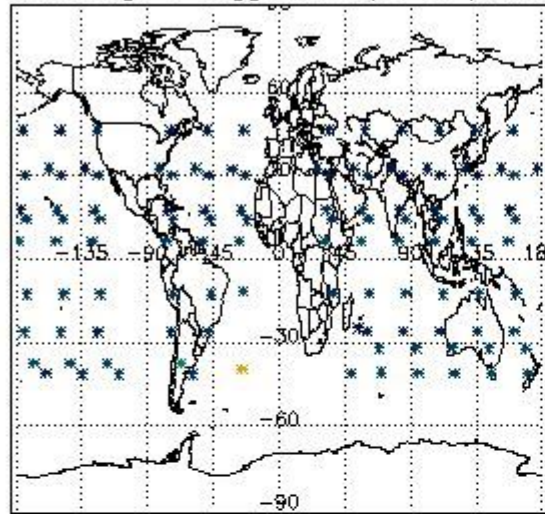
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

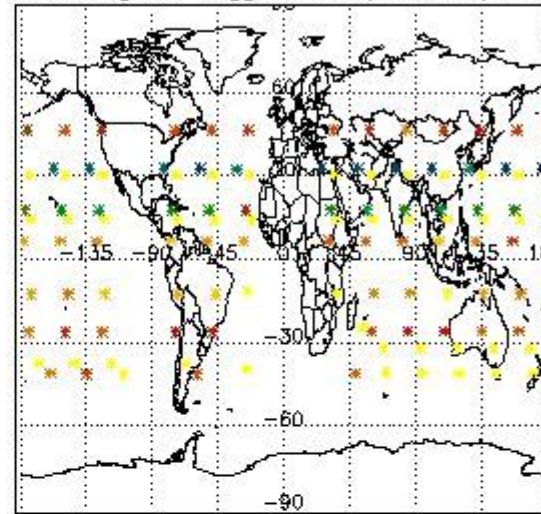


3.2 Plot quality information per product (world map)

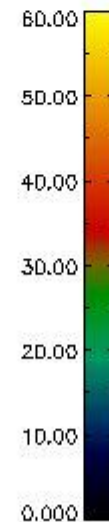
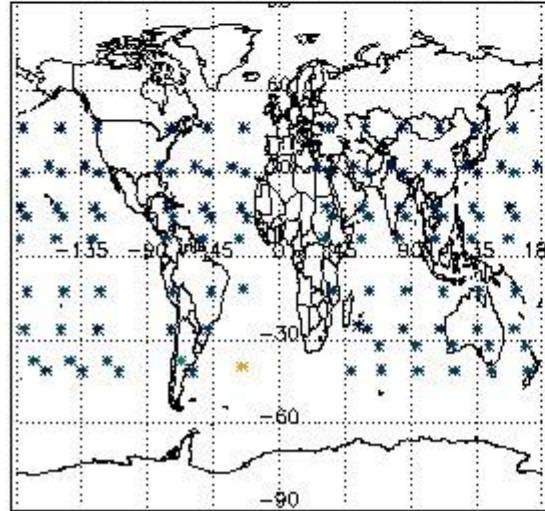
Percentage of flagged data per O3 profile



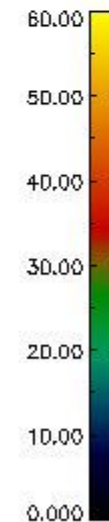
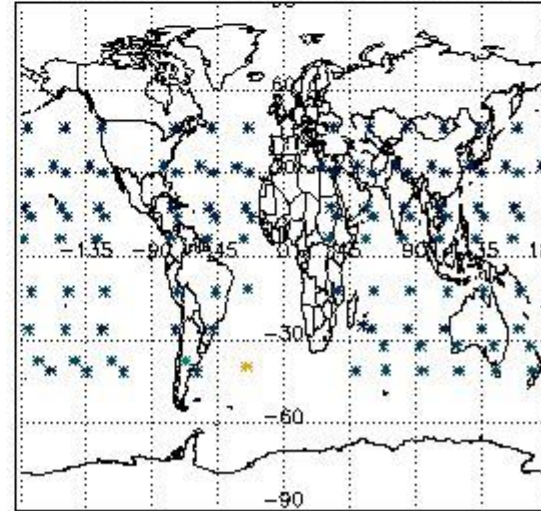
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

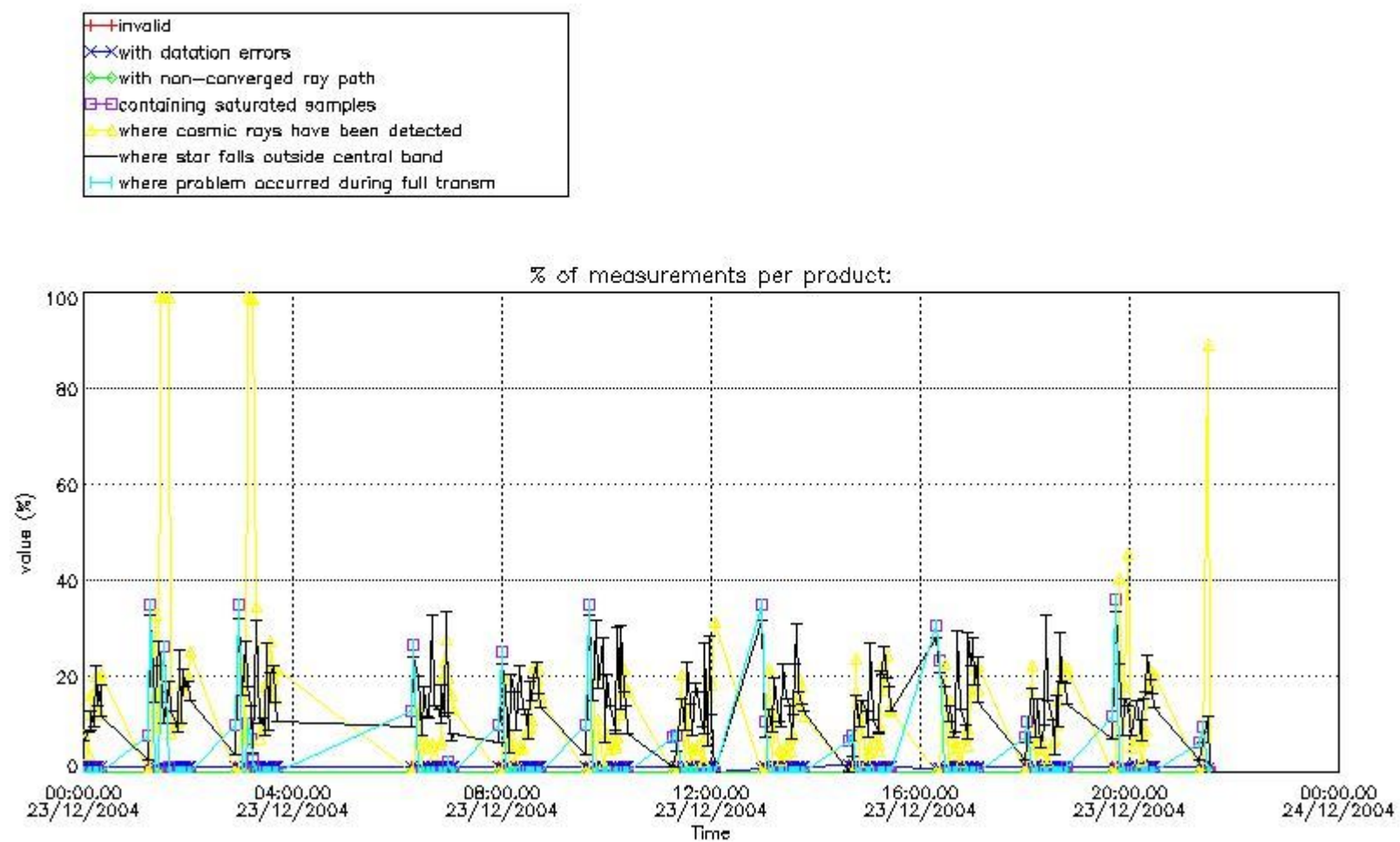


4. Level 1 quality information per product

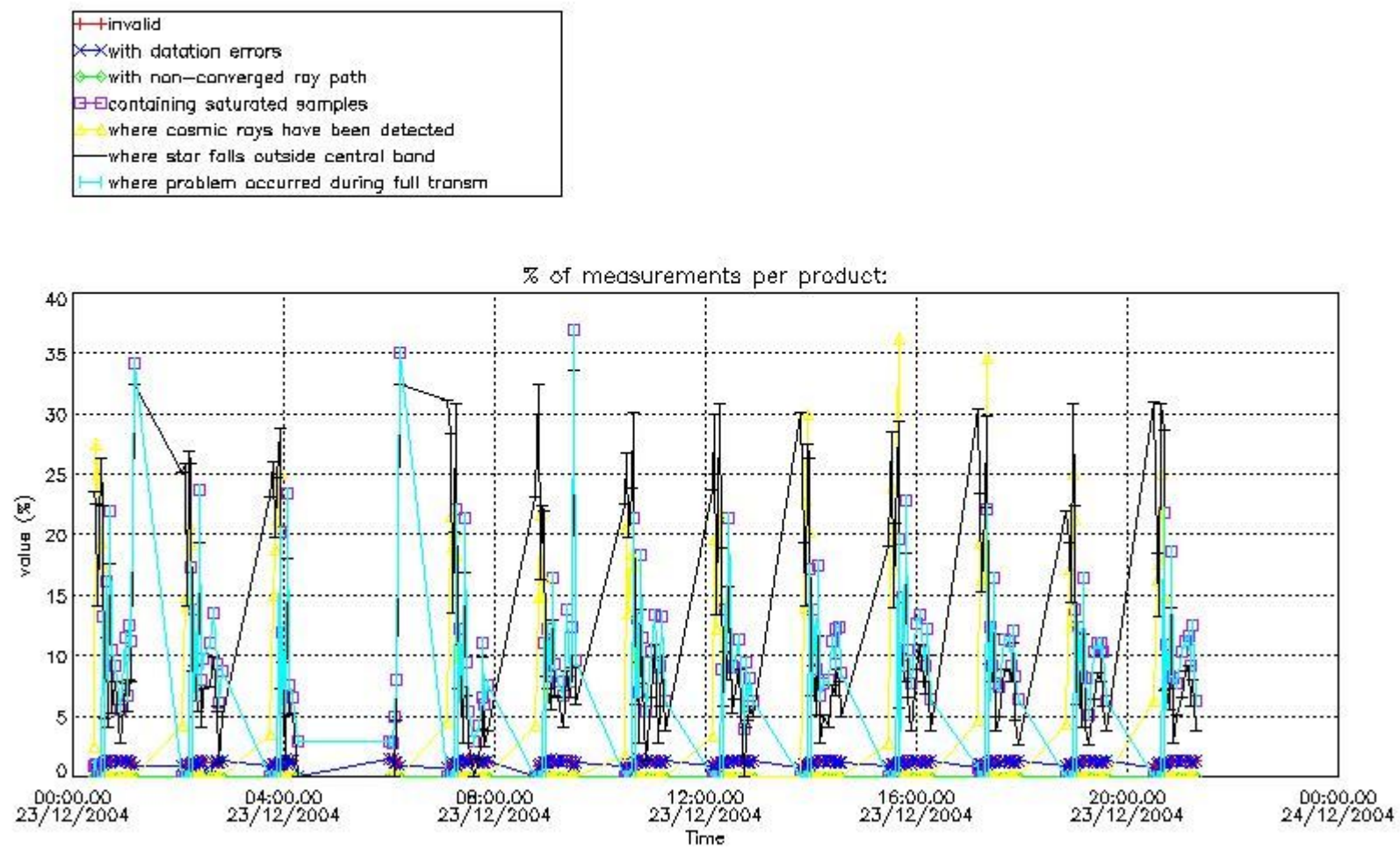
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



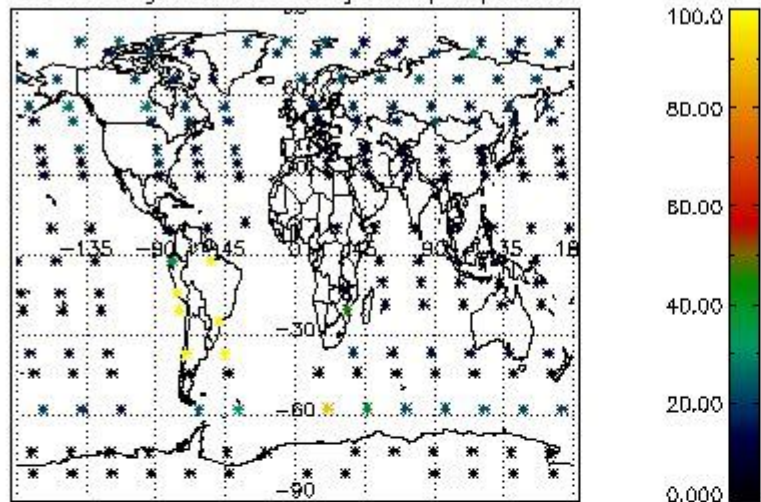
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



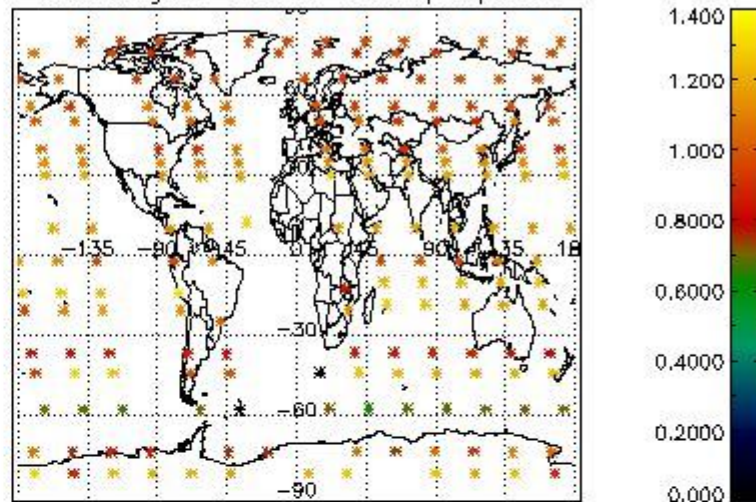
4.2 Plot quality information per product coming from level 1b processing (world map)

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

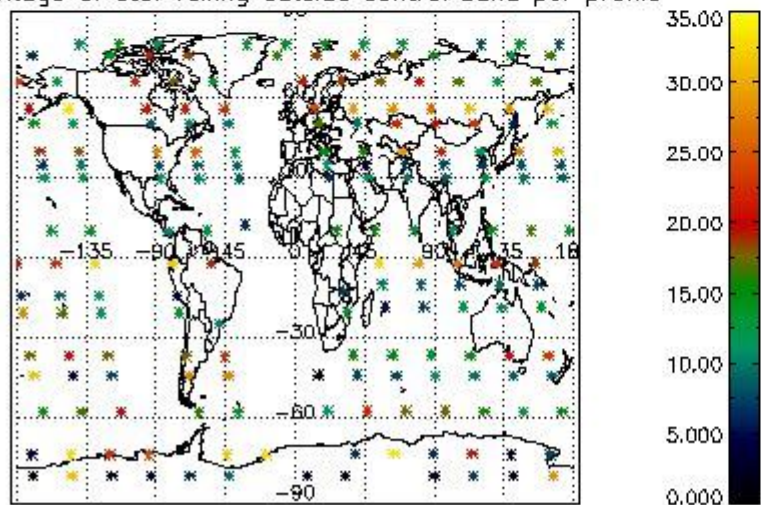
Percentage of cosmic ray hits per profile



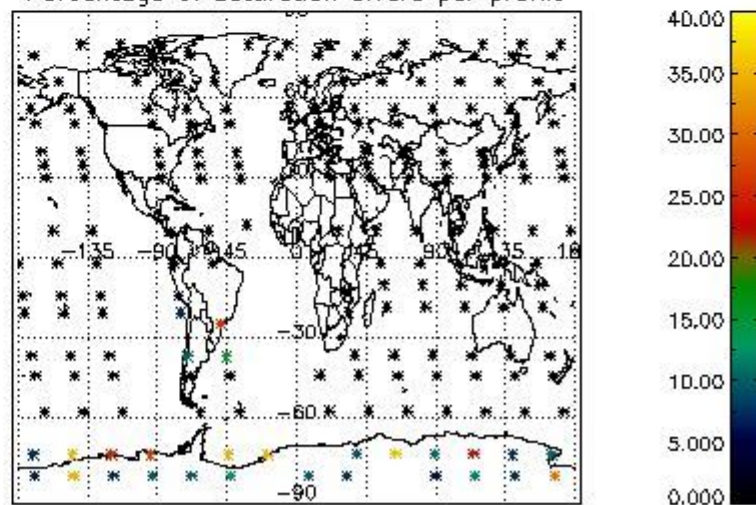
Percentage of datation errors per profile



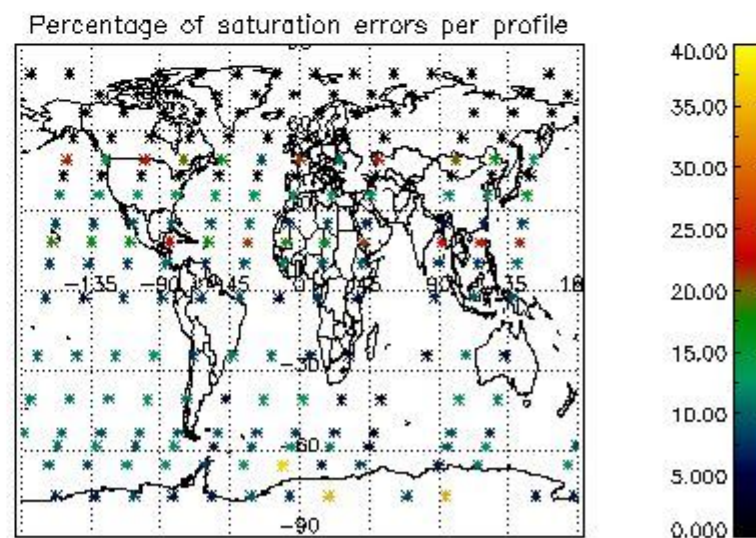
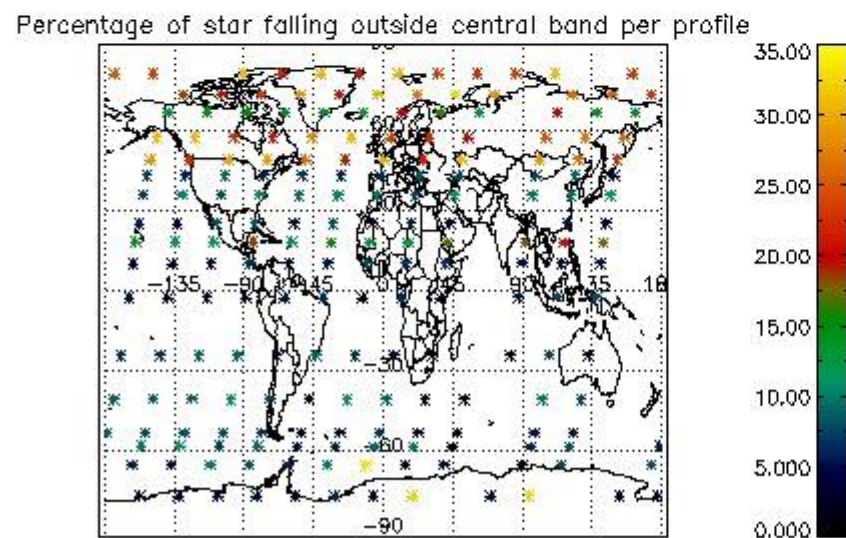
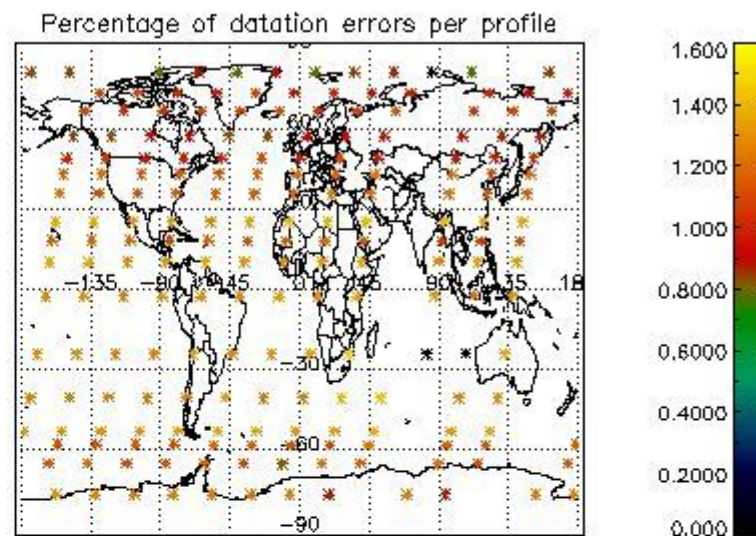
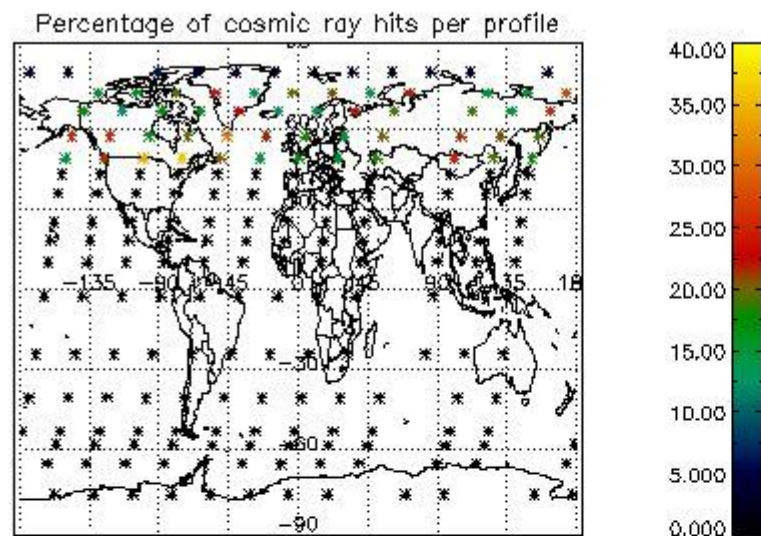
Percentage of star falling outside central band per profile



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

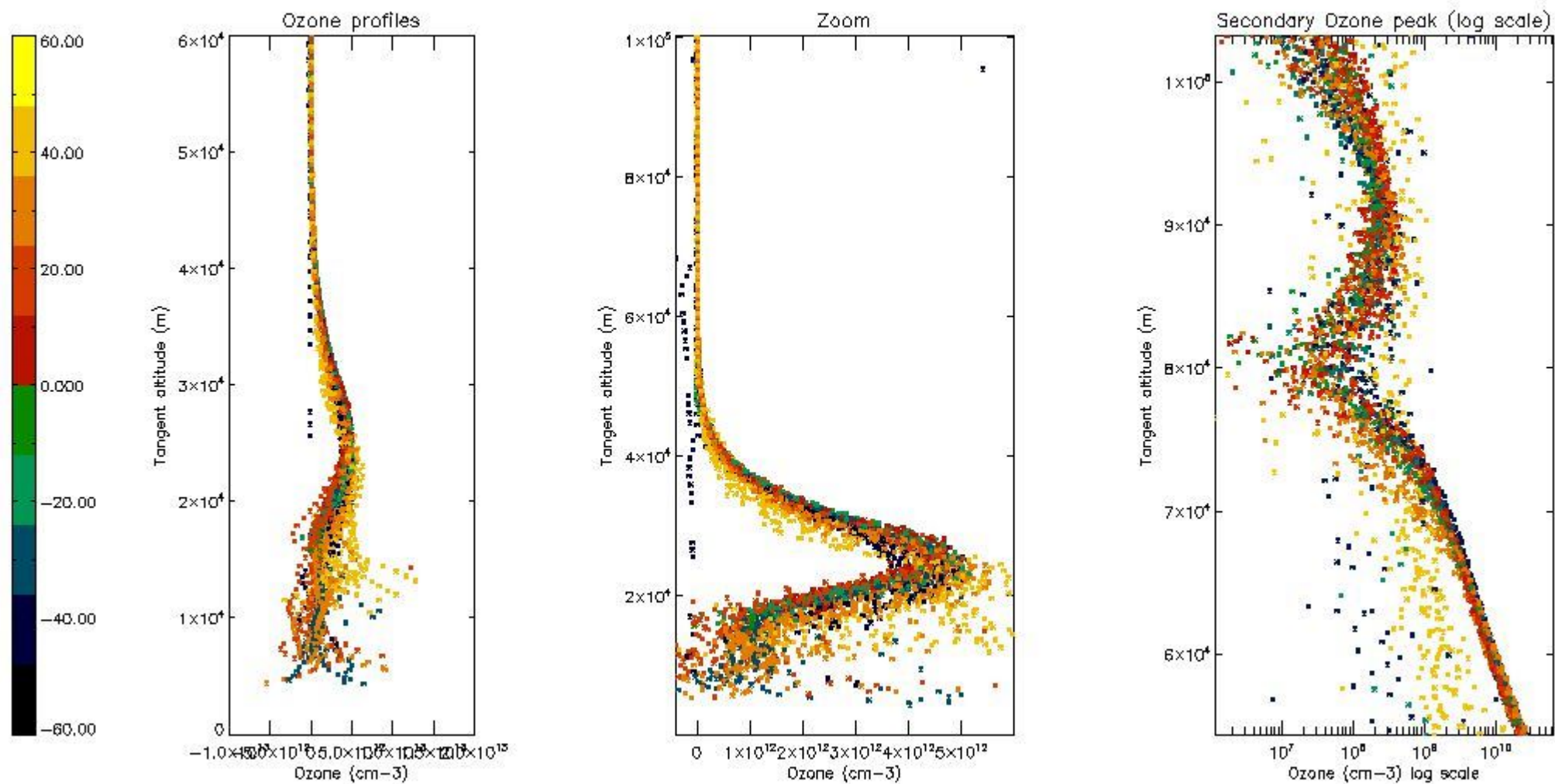
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	29
STD < 20	17

STD < 10	14
STD < 5	10

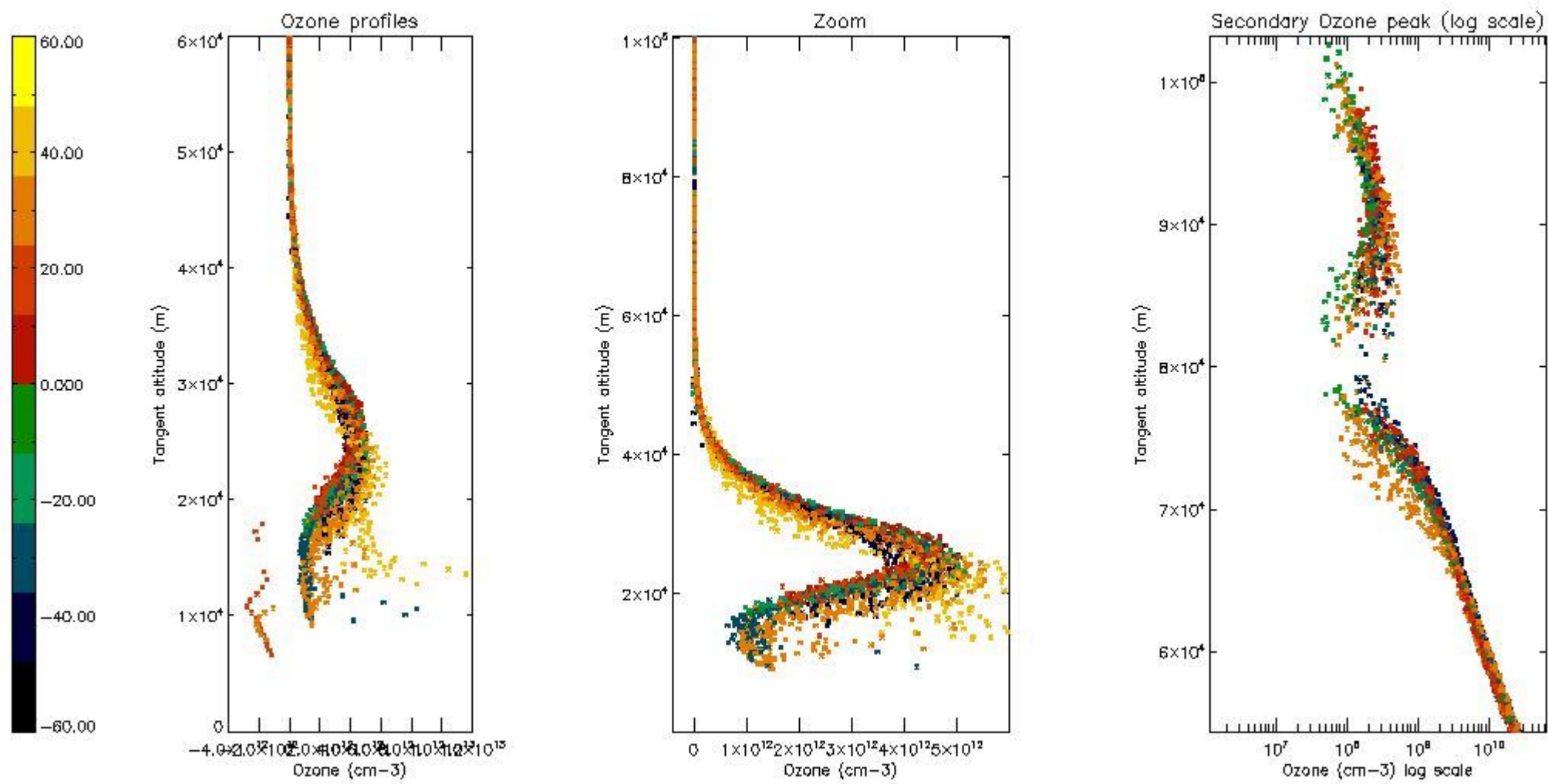
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



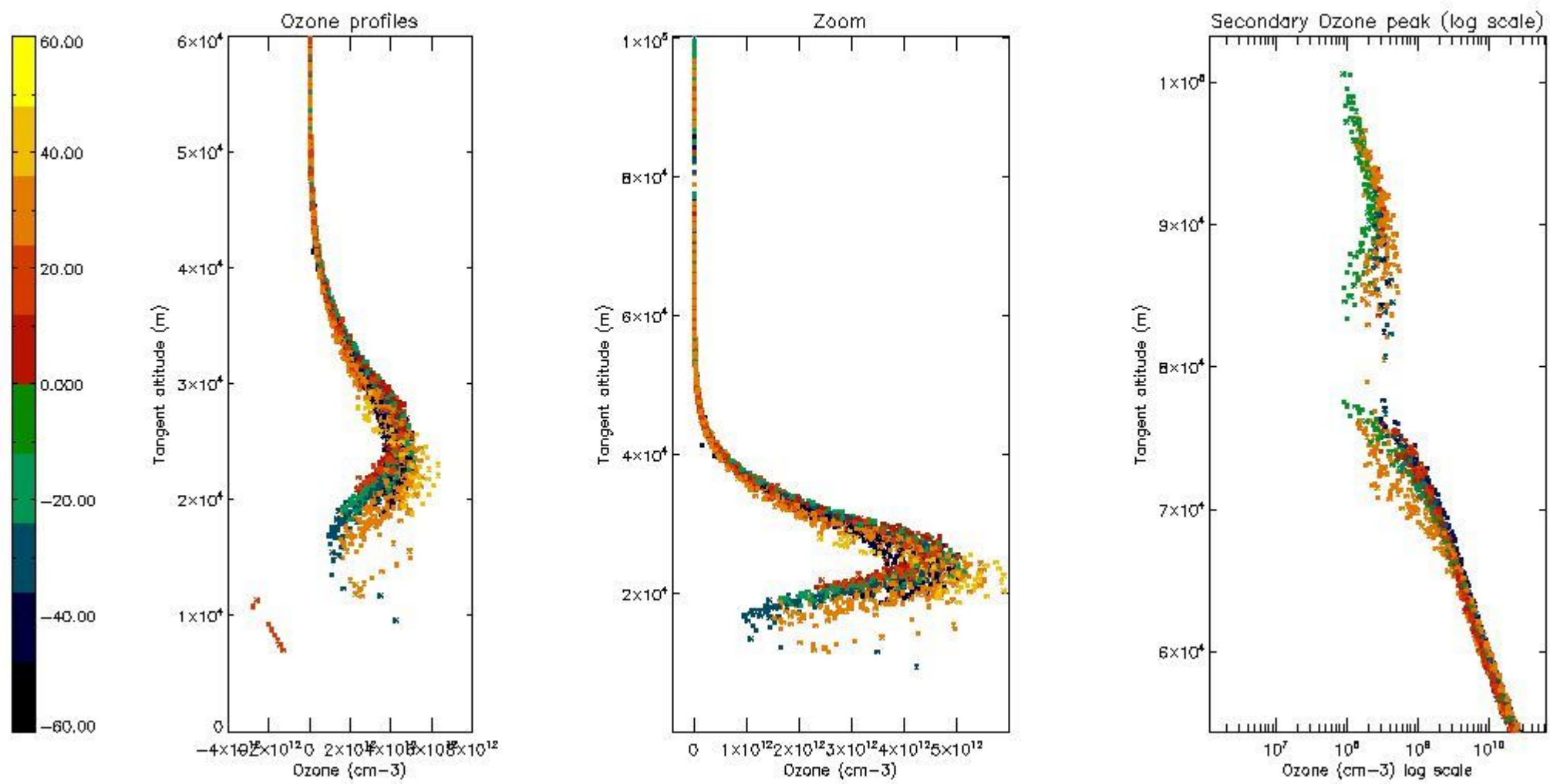
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



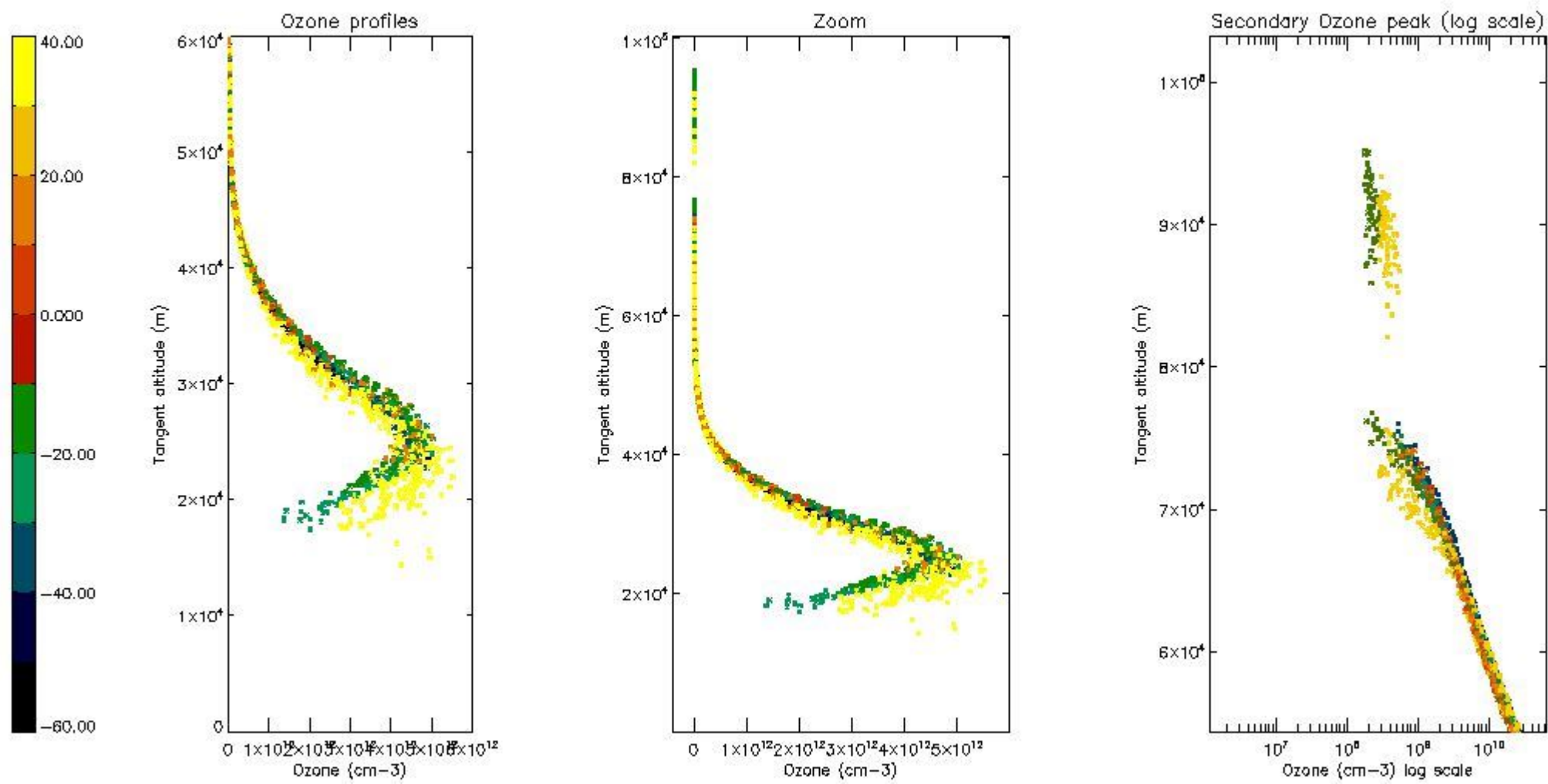
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



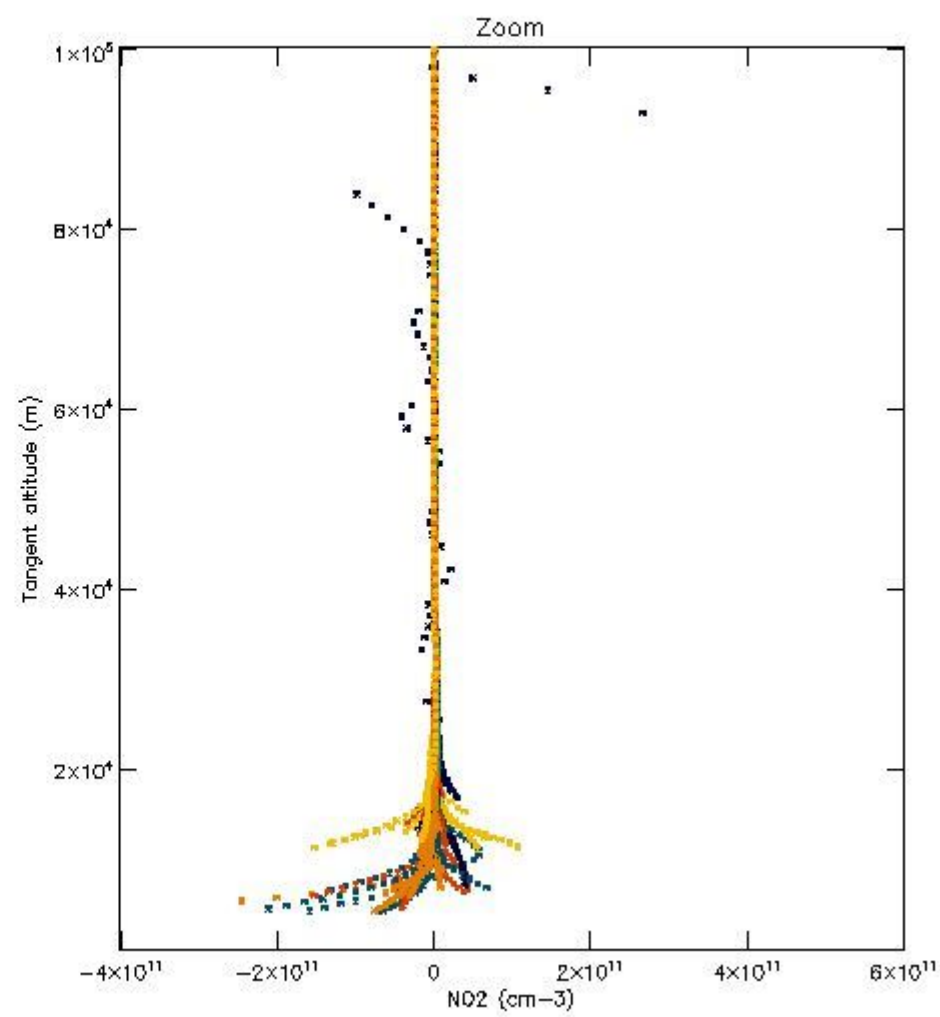
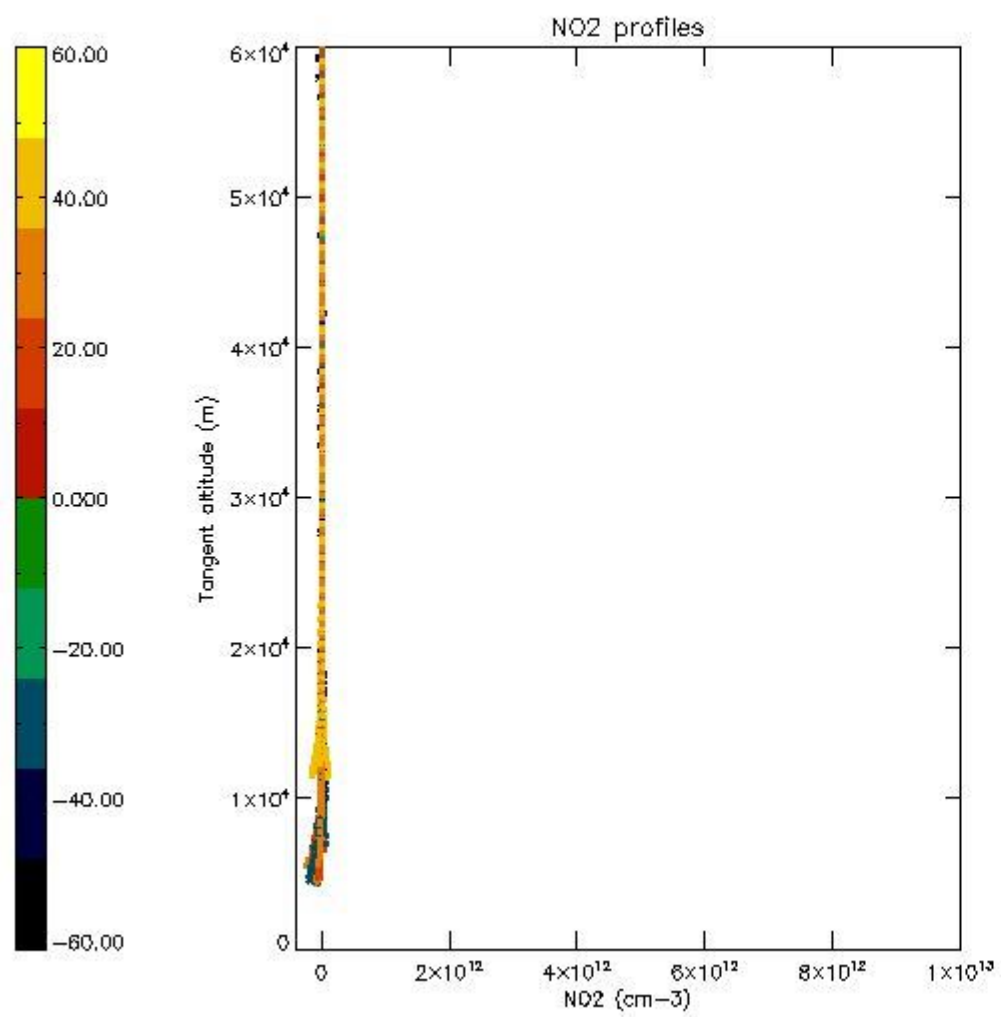
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



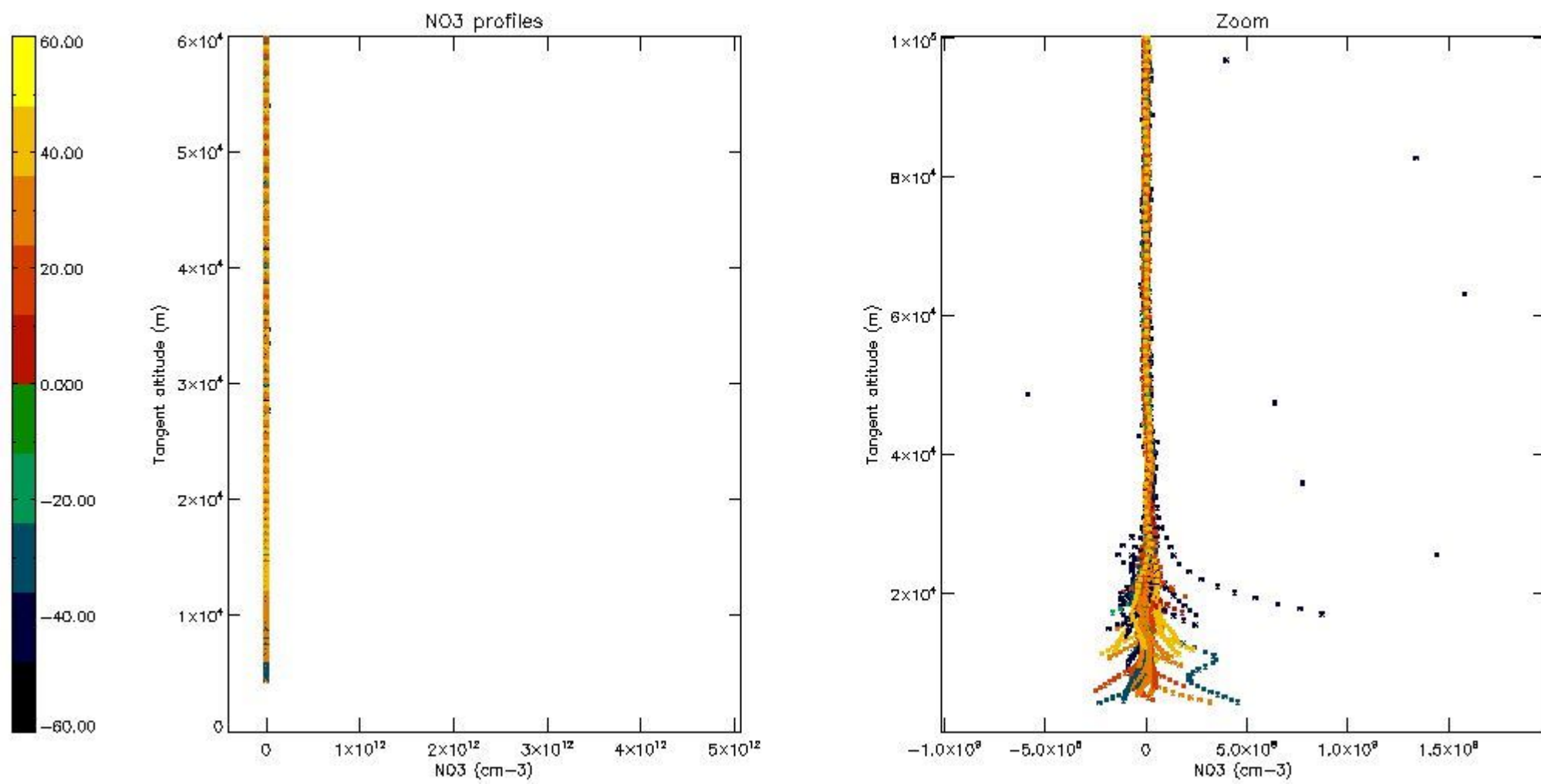
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



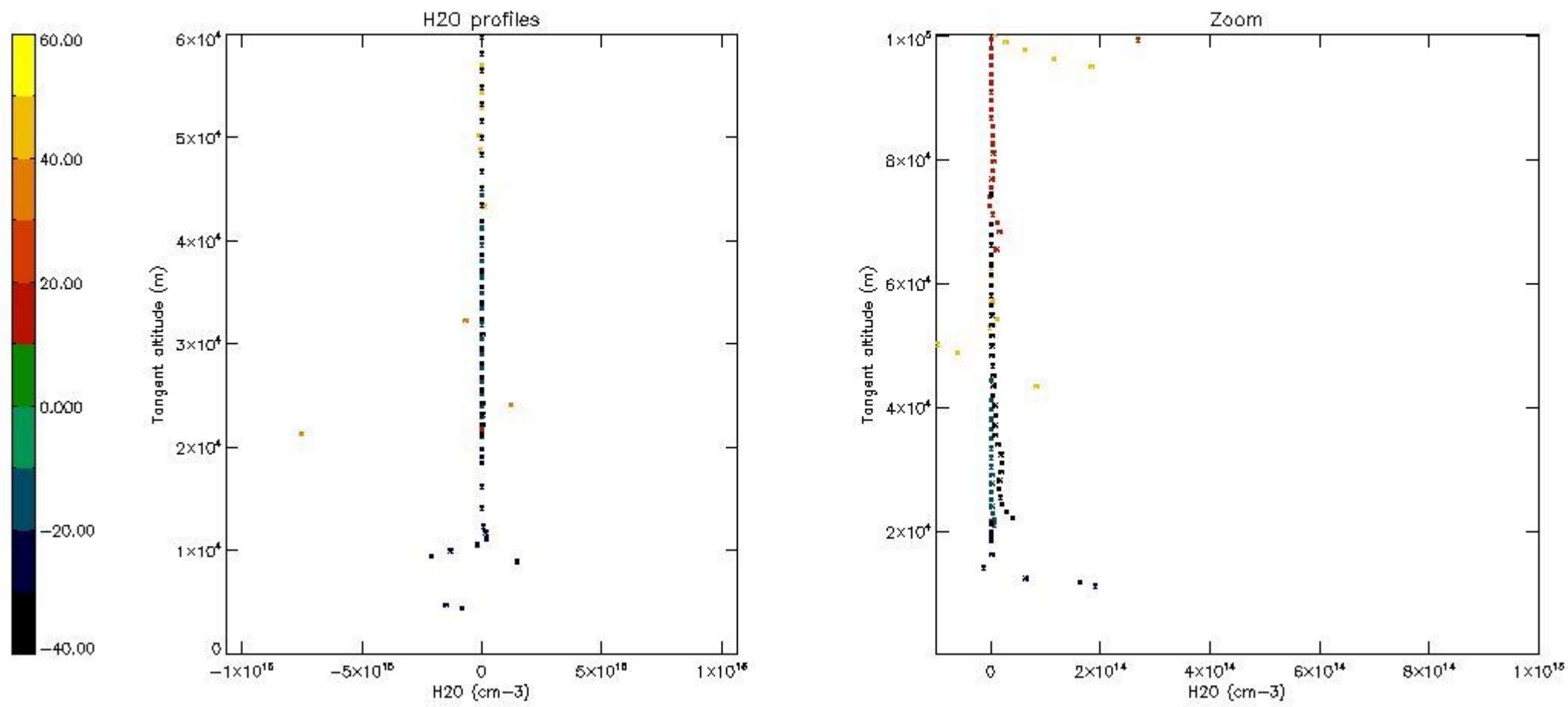
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	23-DEC-2004 00:00:52
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	23-DEC-2004 00:00:52
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	23-DEC-2004 00:00:52

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[1. General Info](#)

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

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[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](#)

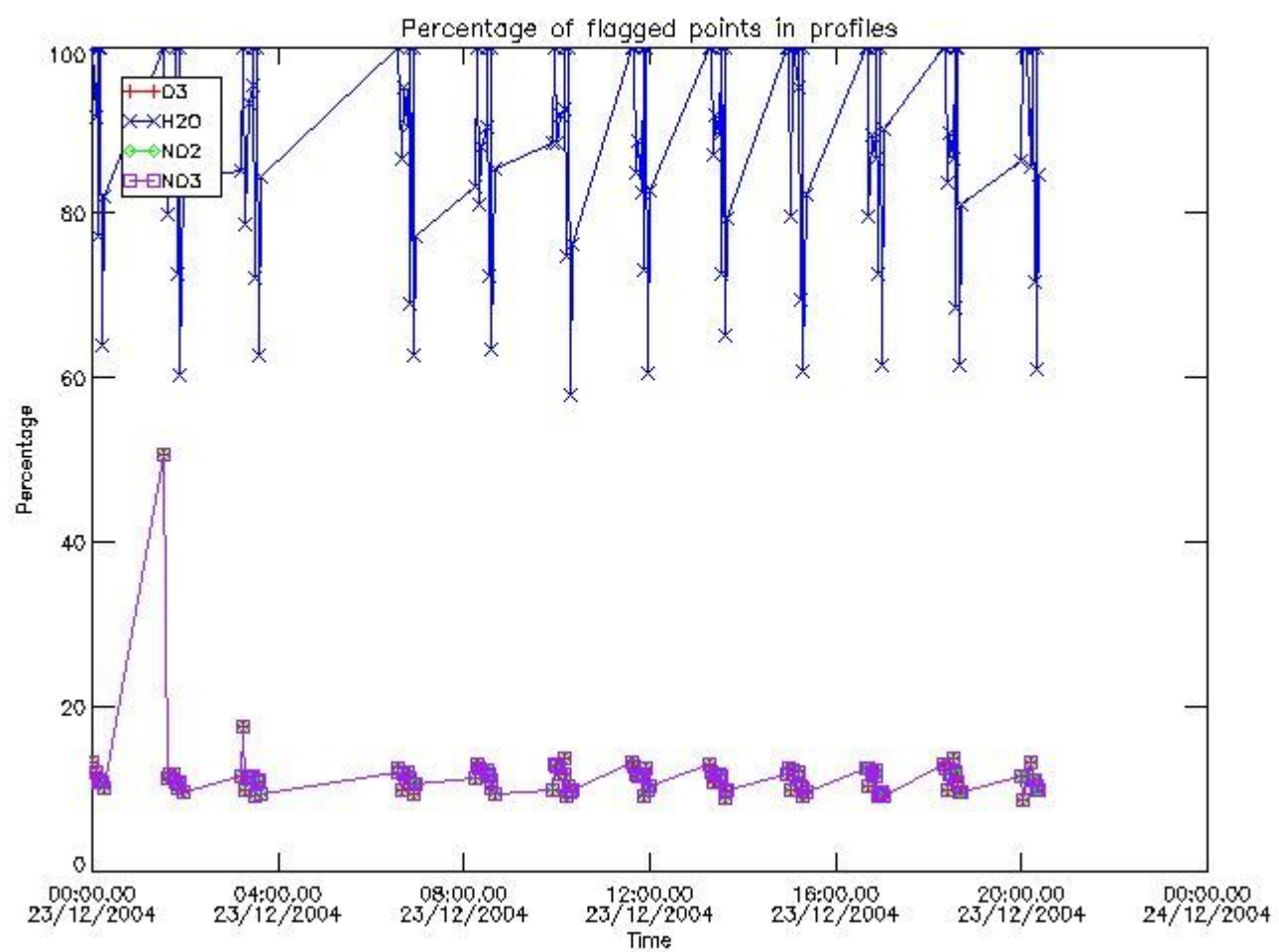
[6. Auxiliary Data Files used for the production reported in section 2](#)

397	GOM_NL__2PRFIN20041223_211703_000000402033_00143_14726_7609.N1	23-DEC-2004 21:17:03	Bright	40.000	180	27Gam Boo	3.0400	8000.0	80	14726	No
398	GOM_NL__2PRFIN20041223_212027_000000402033_00143_14726_7610.N1	23-DEC-2004 21:20:27	Bright	40.000	83		2.3780	11000.	80	14726	No
399	GOM_NL__2PRFIN20041223_212408_000000482033_00143_14726_7611.N1	23-DEC-2004 21:24:08	Bright	48.000	111	8Eta Boo	2.6800	6000.0	96	14726	No
400	GOM_NL__2PRFIN20041223_212902_000000702033_00143_14726_7612.N1	23-DEC-2004 21:29:02	Twilight_stray	69.500	138	47Eps Vir	2.8280	4700.0	139	14726	No
401	GOM_NL__2PRFIN20041223_213252_000000152033_00143_14726_7613.N1	23-DEC-2004 21:32:52	Twilight_stray	14.500	122	9Alp2Lib	2.7470	9700.0	29	14726	No

3. Quality information per product

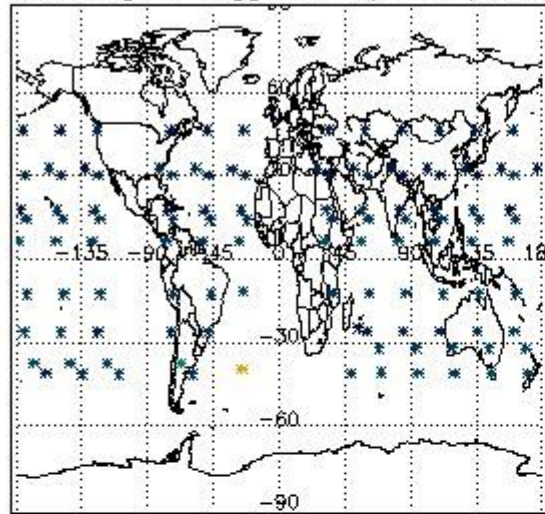
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

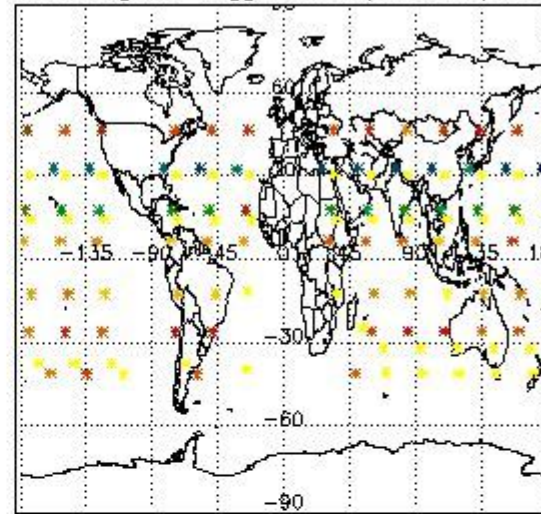


3.2 Plot quality information per product (world map)

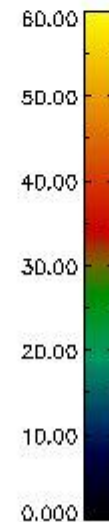
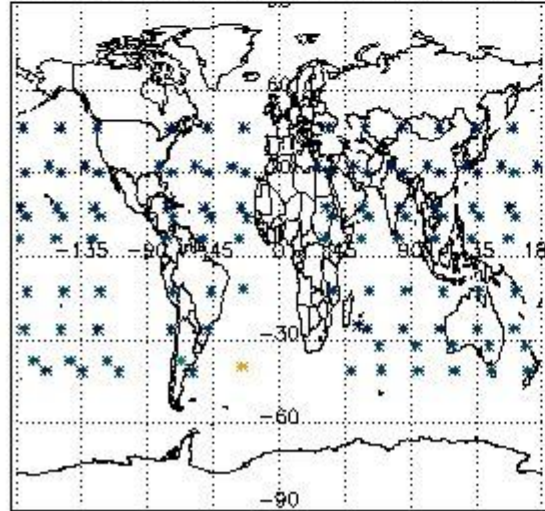
Percentage of flagged data per O3 profile



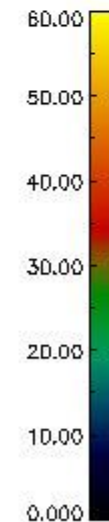
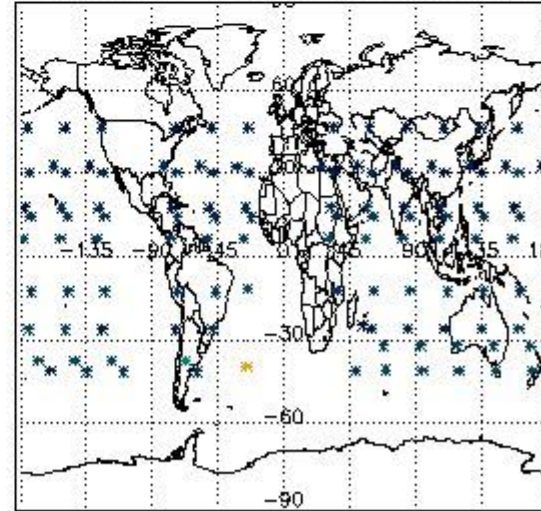
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

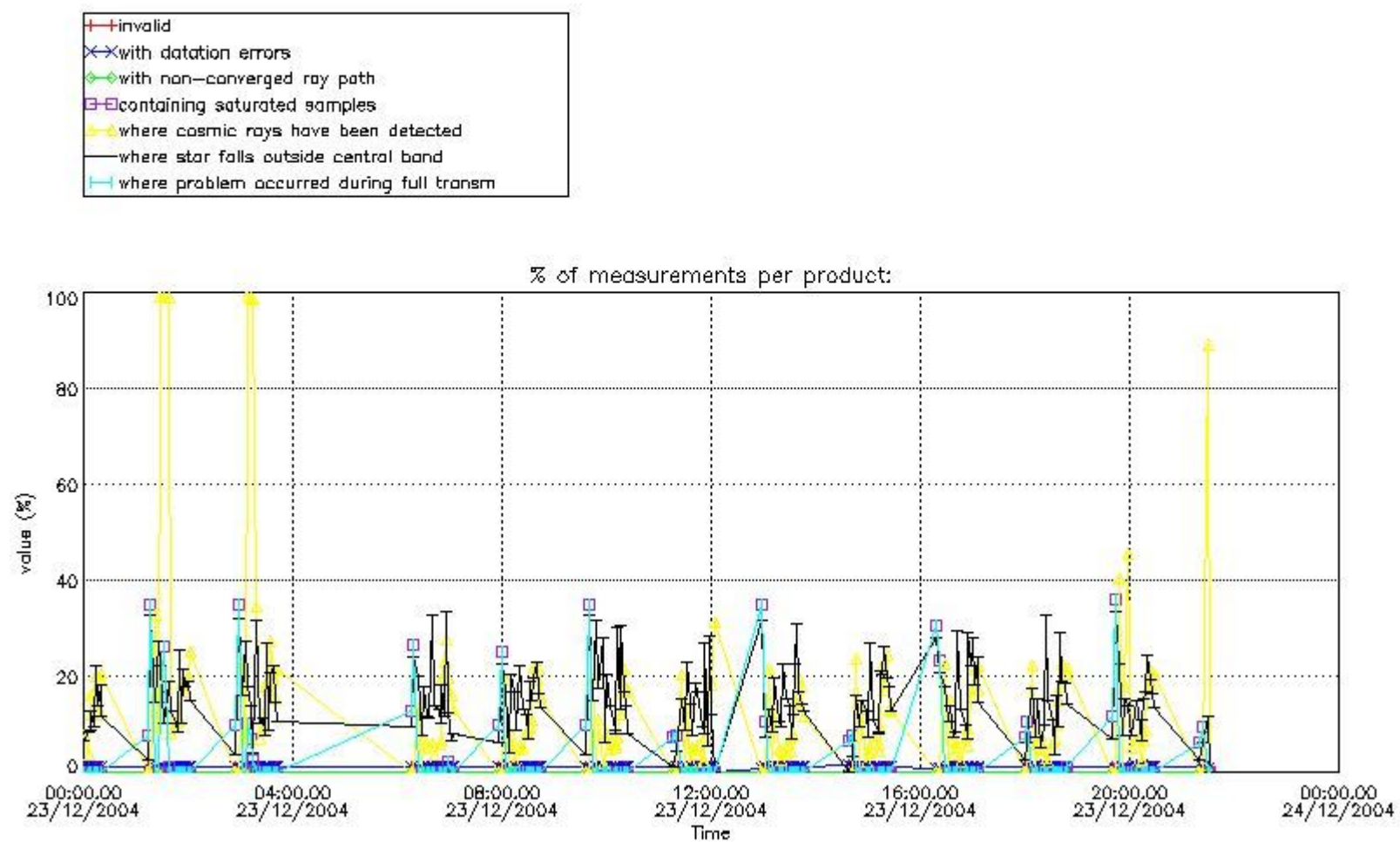


4. Level 1 quality information per product

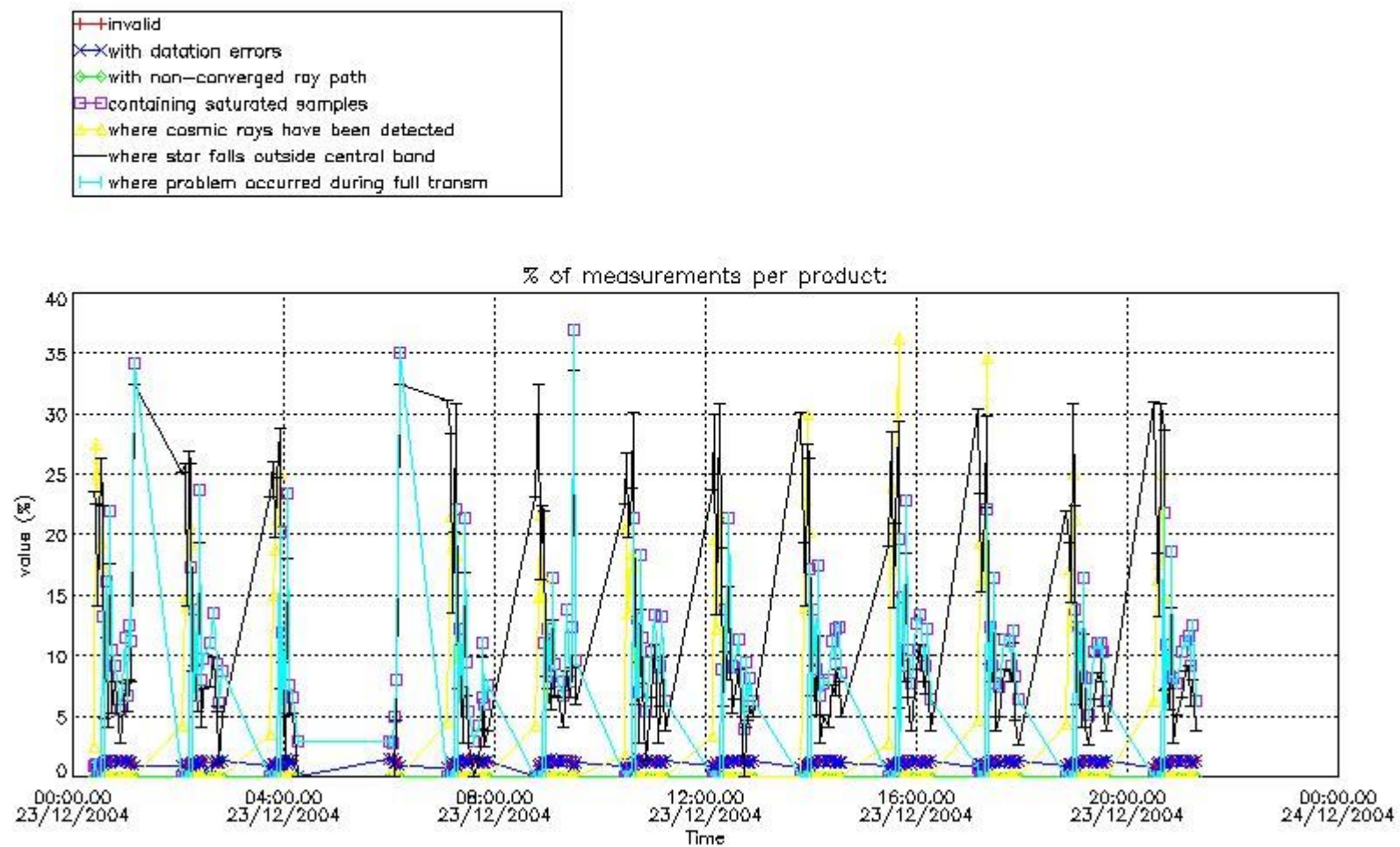
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



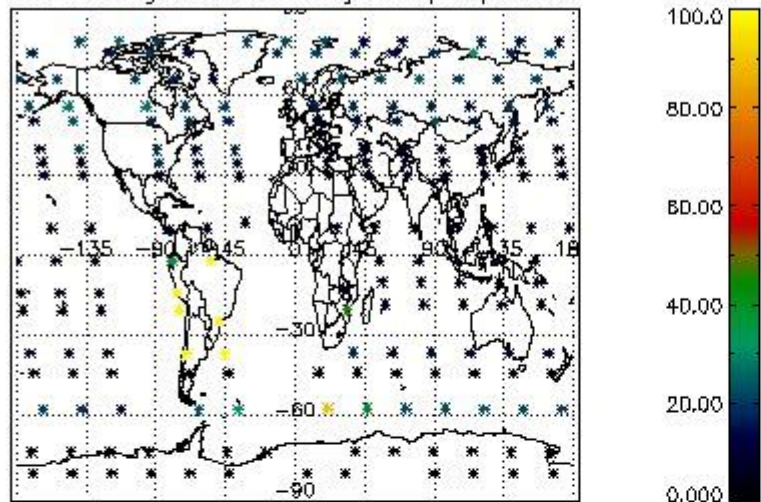
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



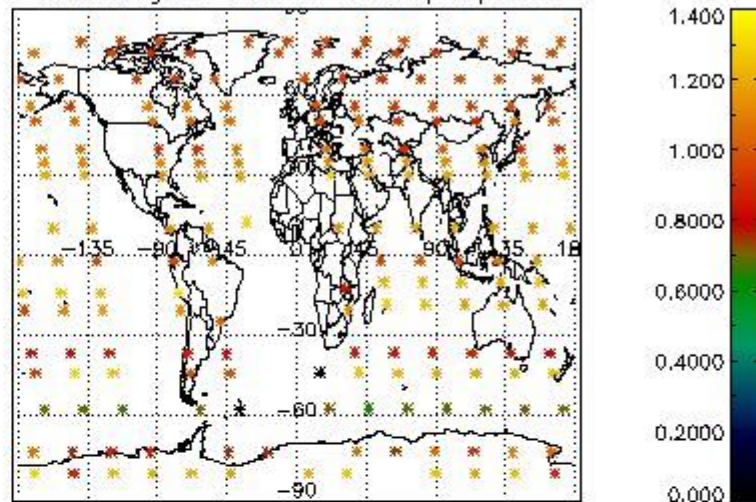
4.2 Plot quality information per product coming from level 1b processing (world map)

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

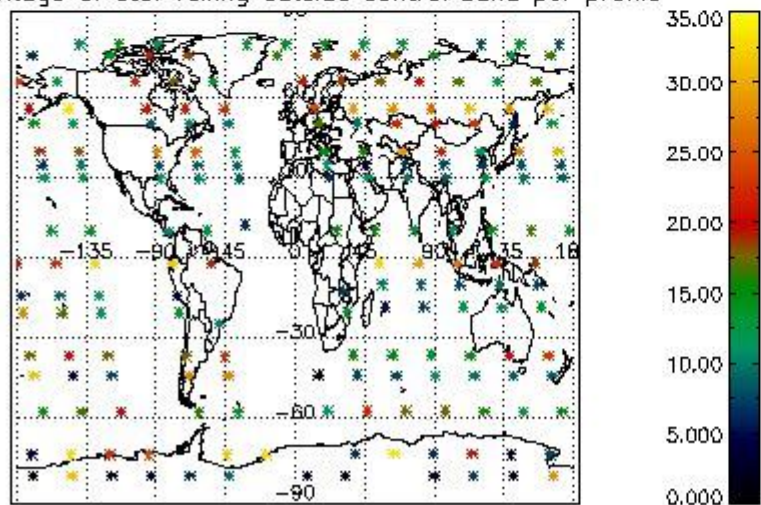
Percentage of cosmic ray hits per profile



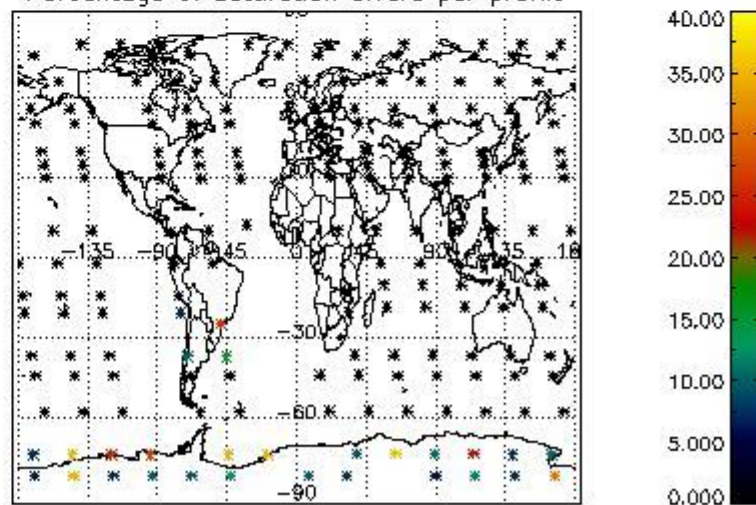
Percentage of datation errors per profile



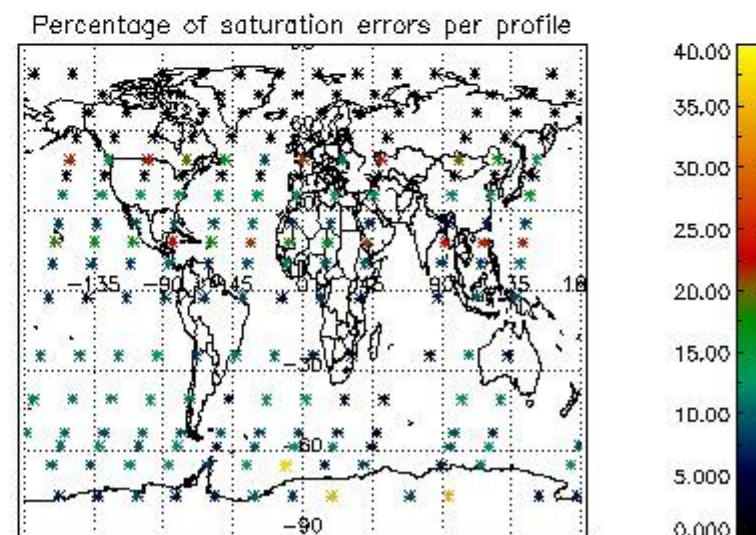
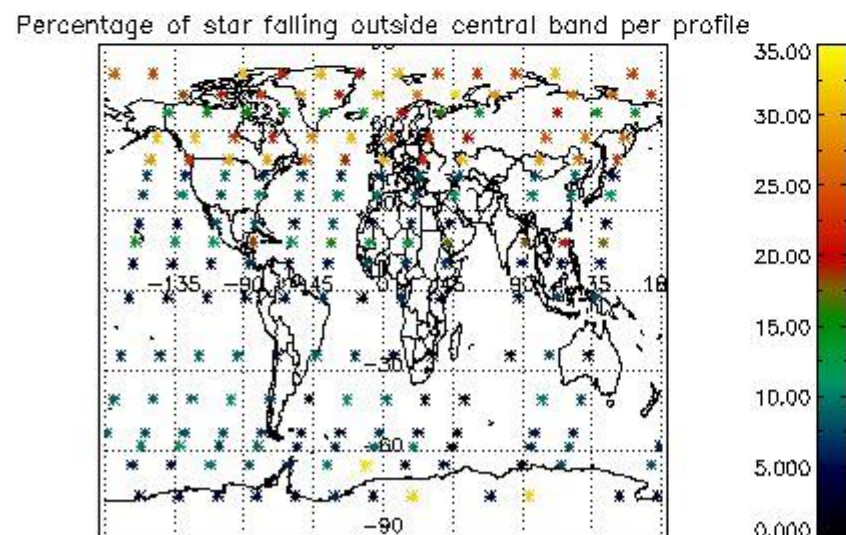
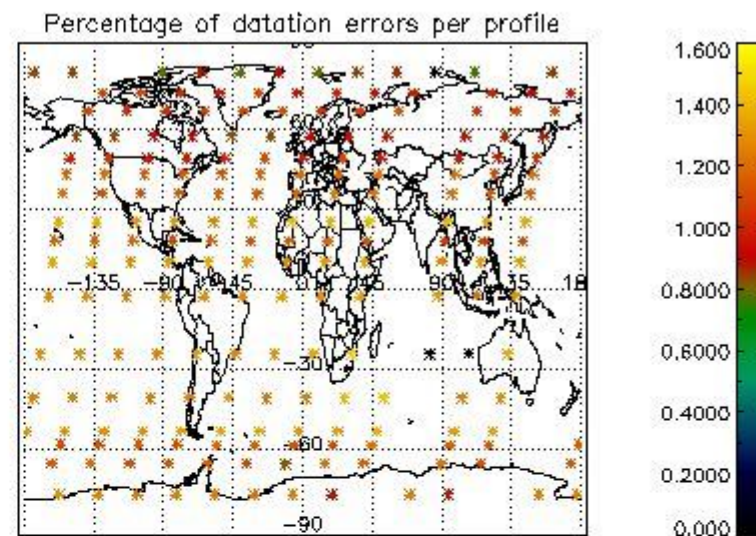
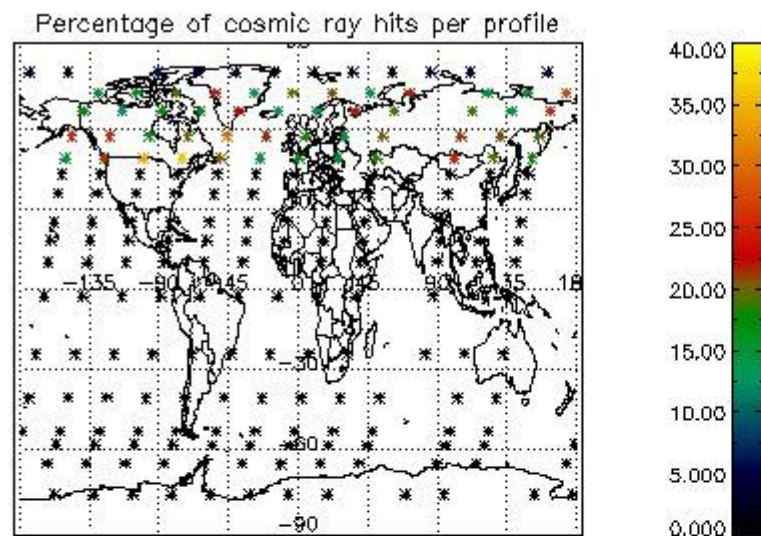
Percentage of star falling outside central band per profile



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

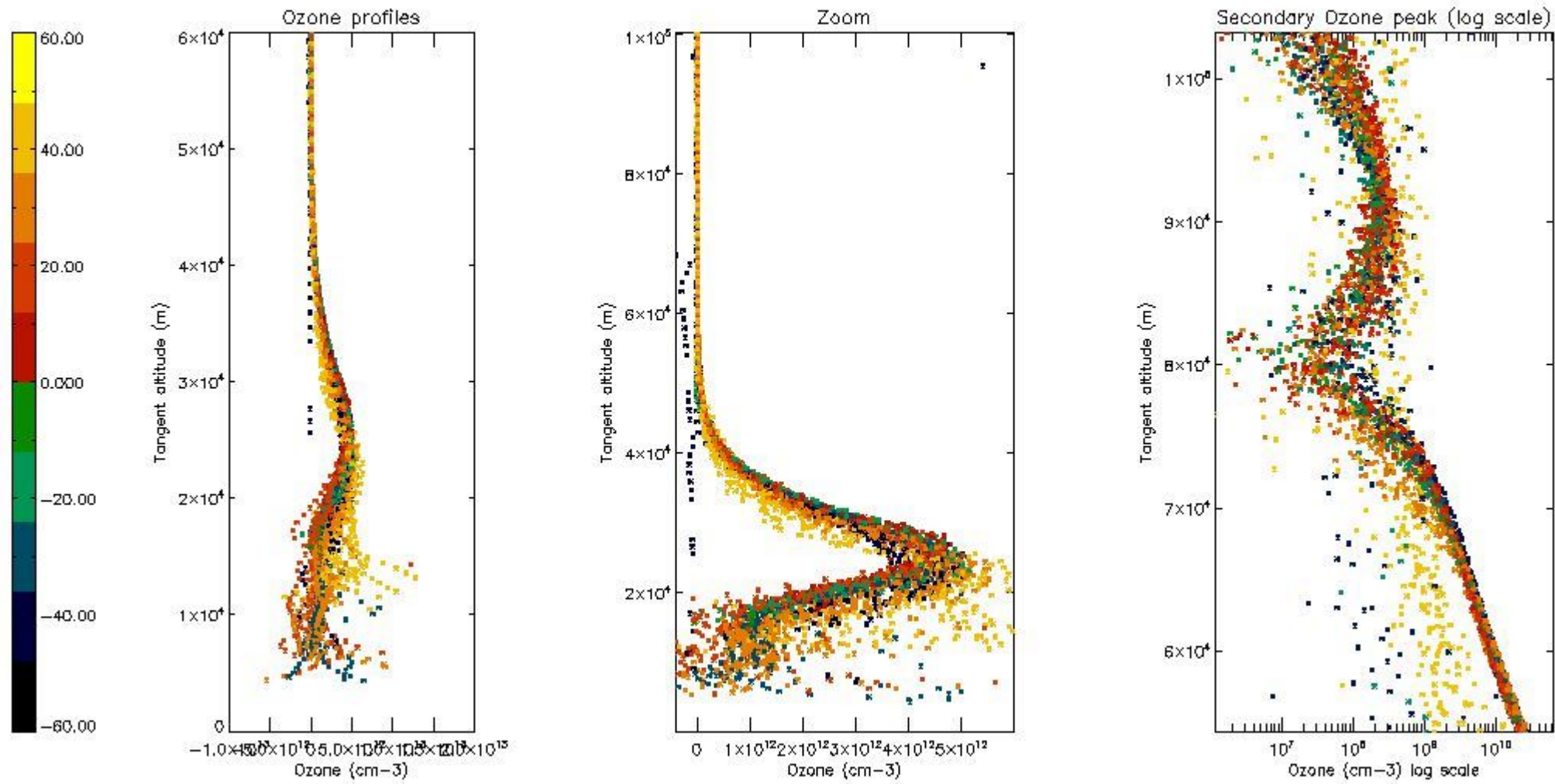
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	29
STD < 20	17

STD < 10	14
STD < 5	10

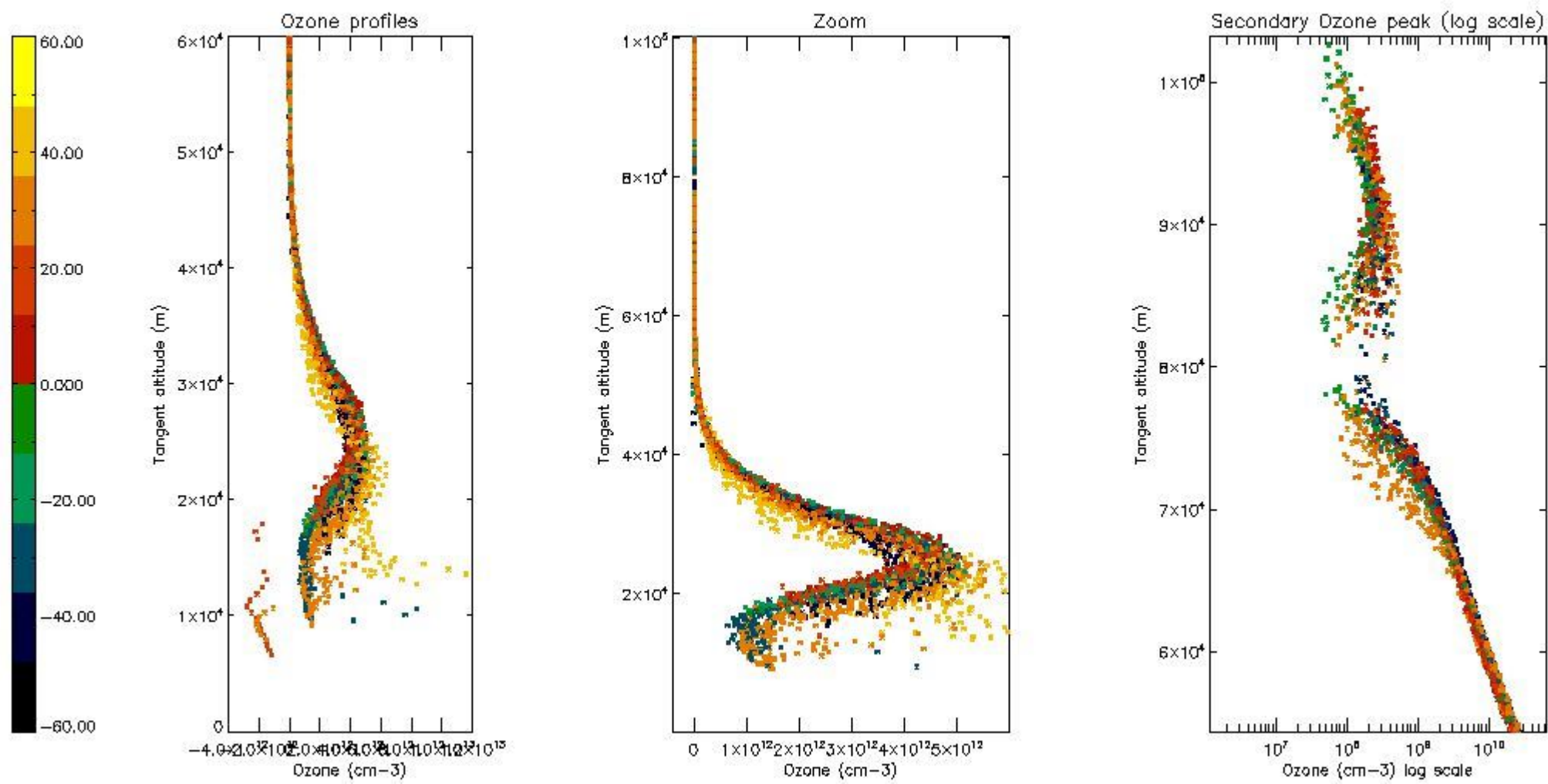
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



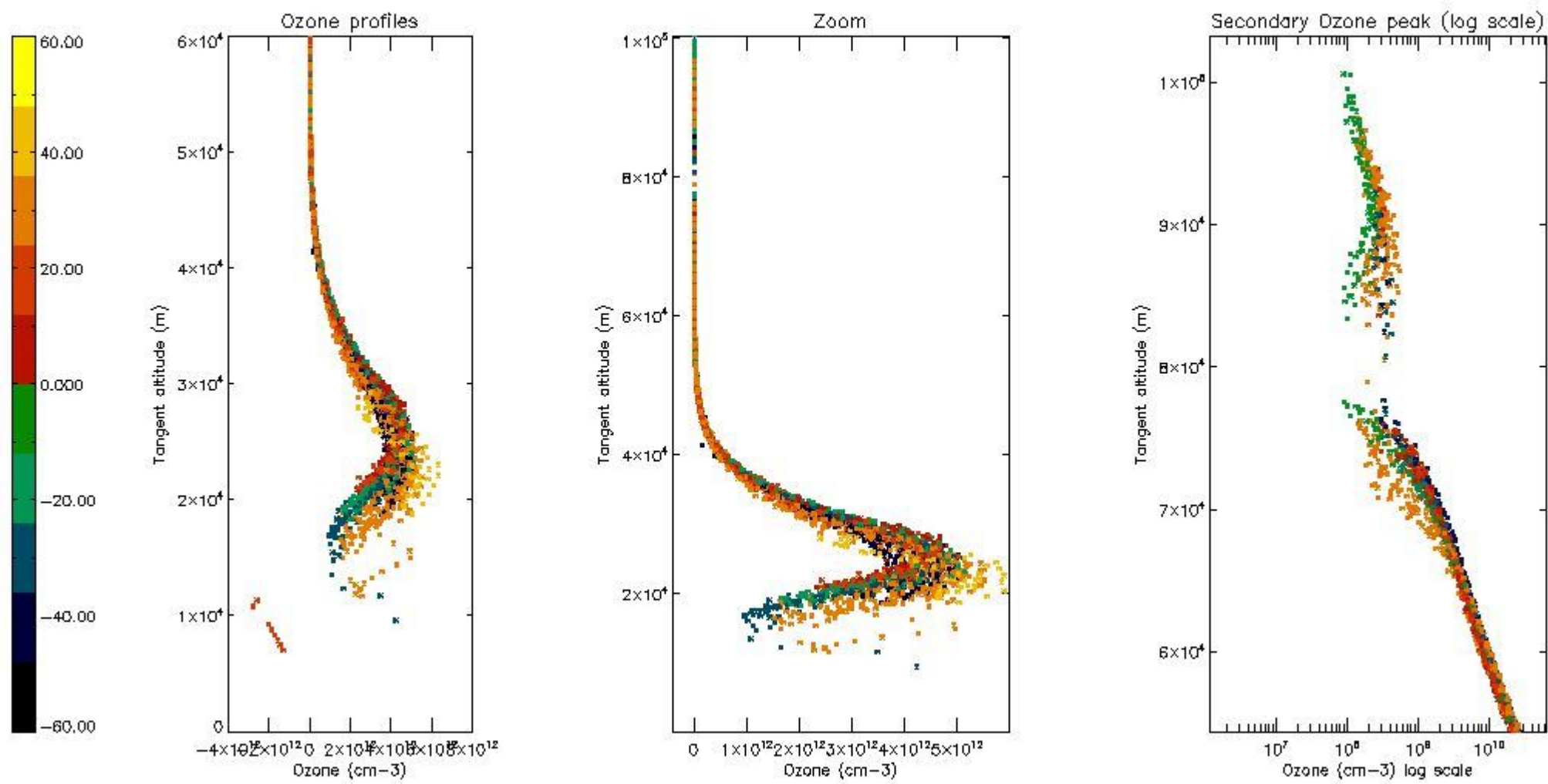
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



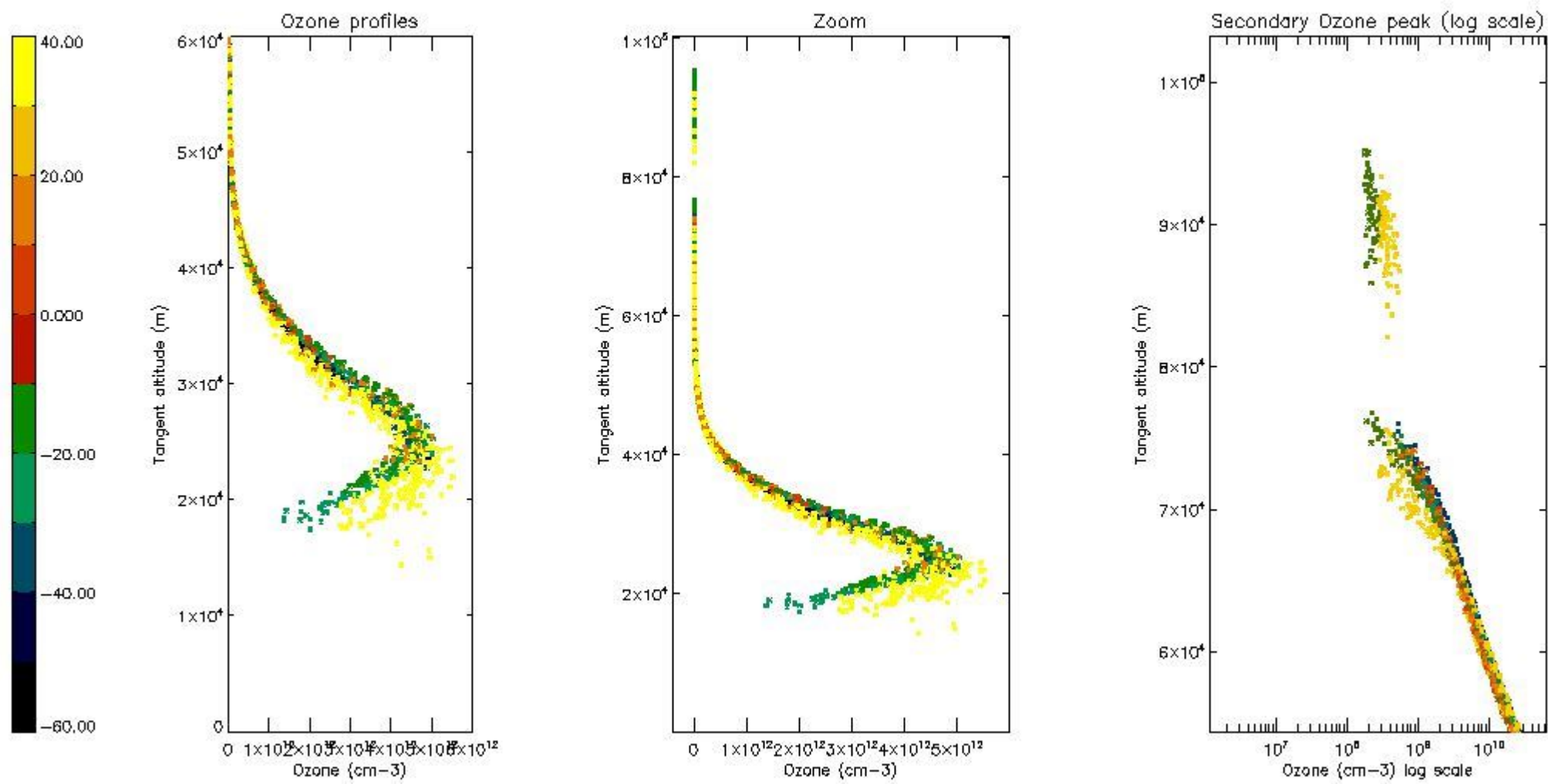
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



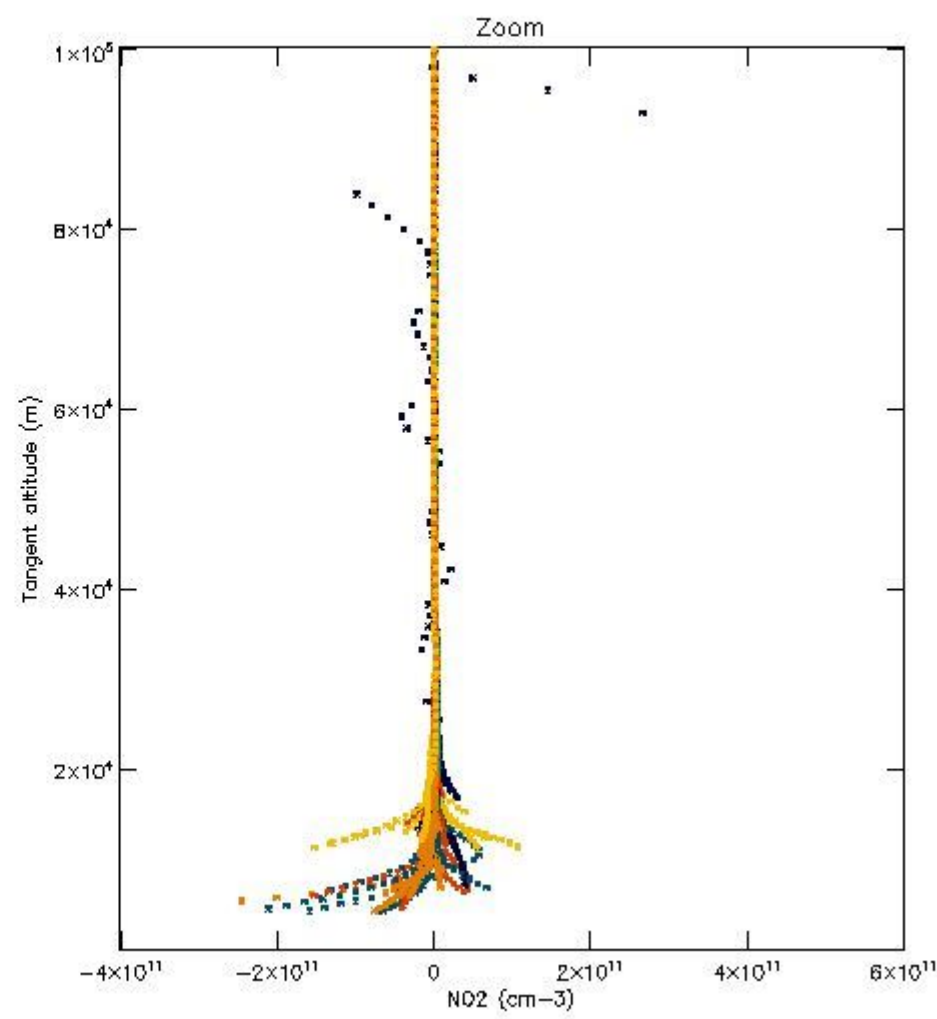
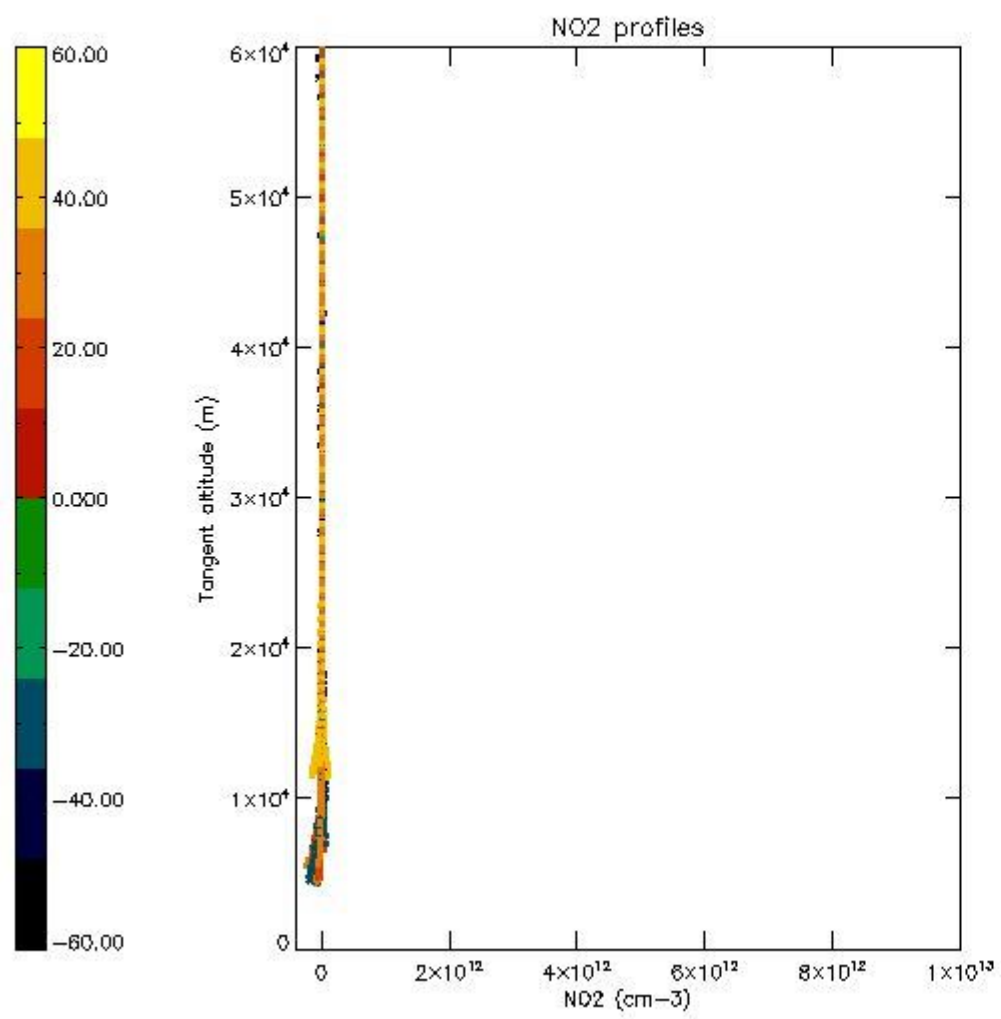
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



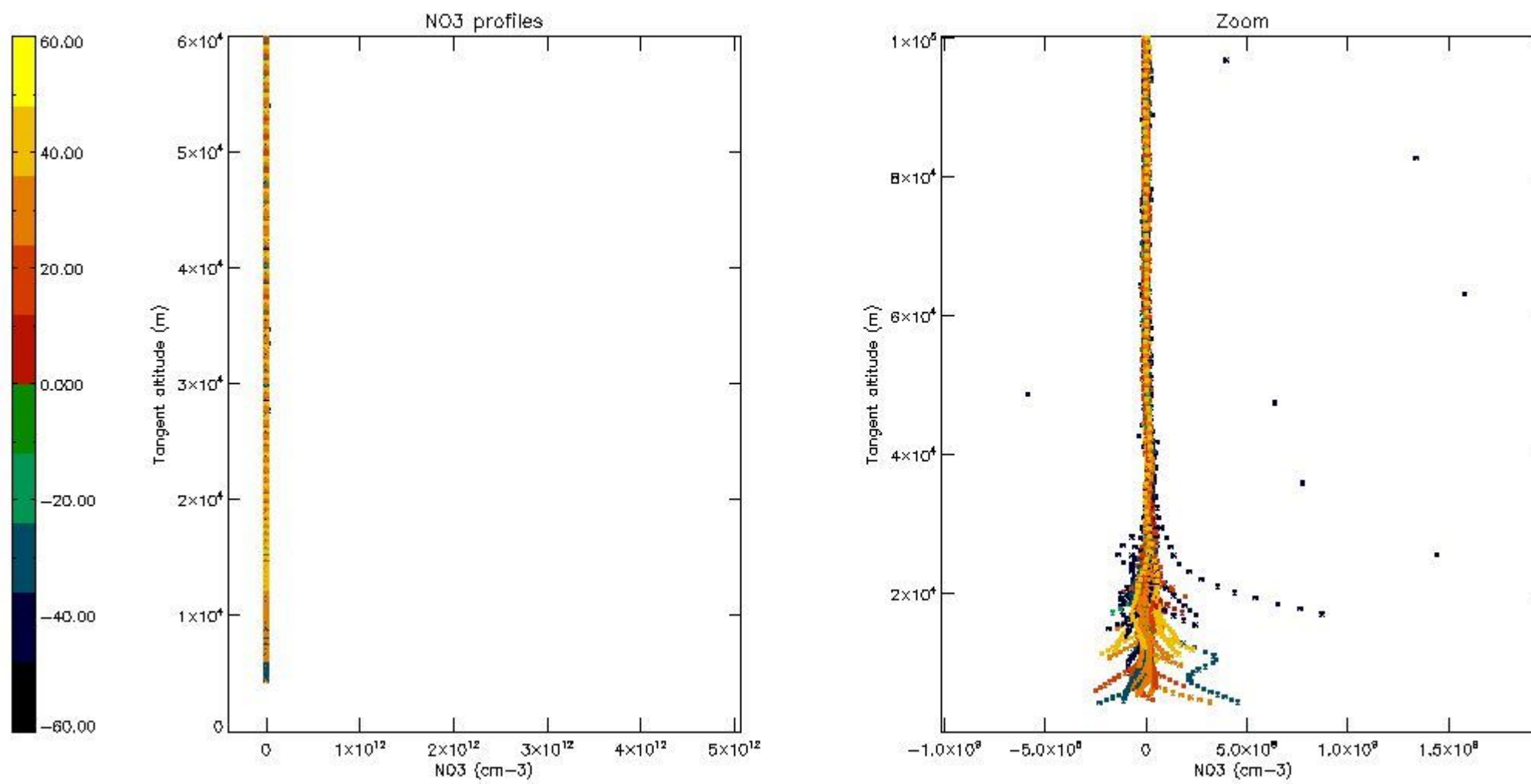
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



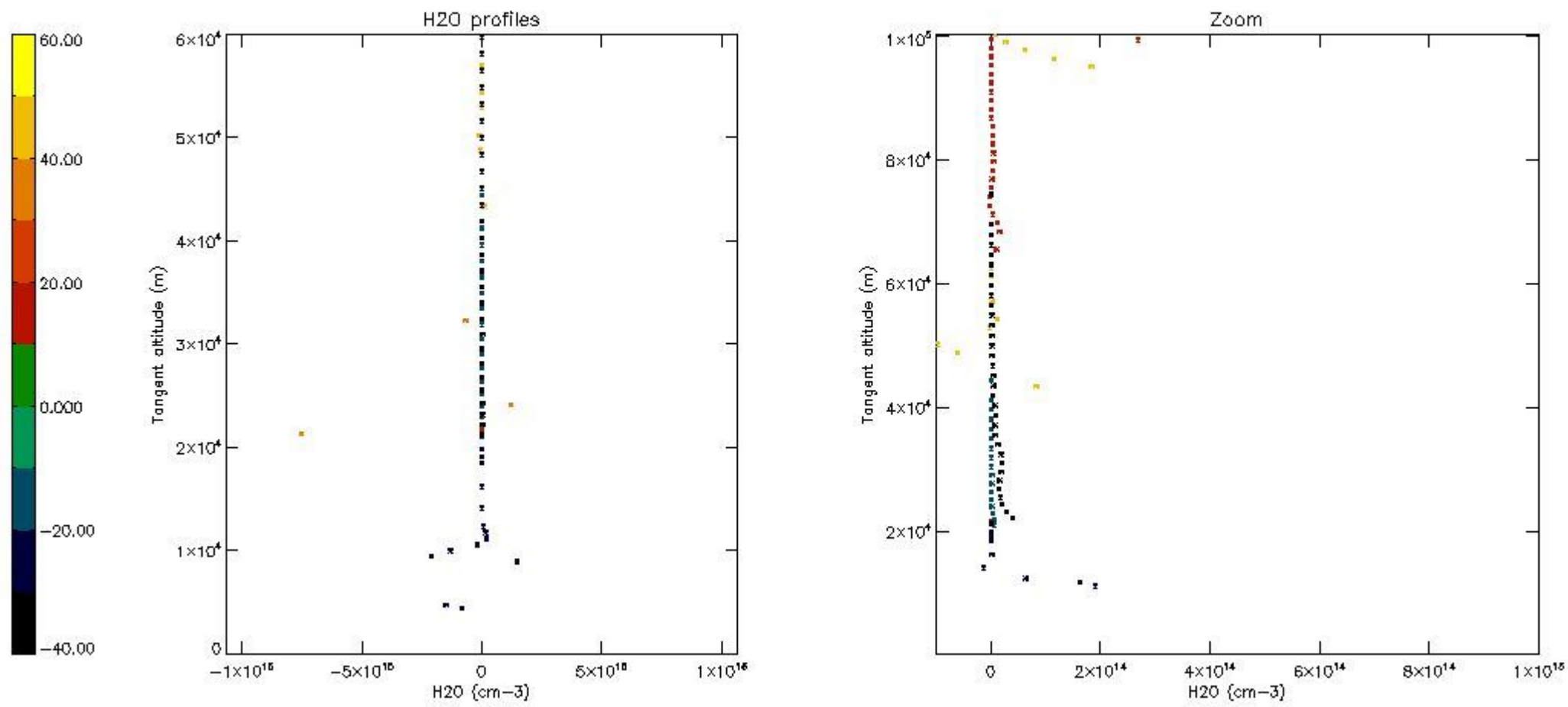
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

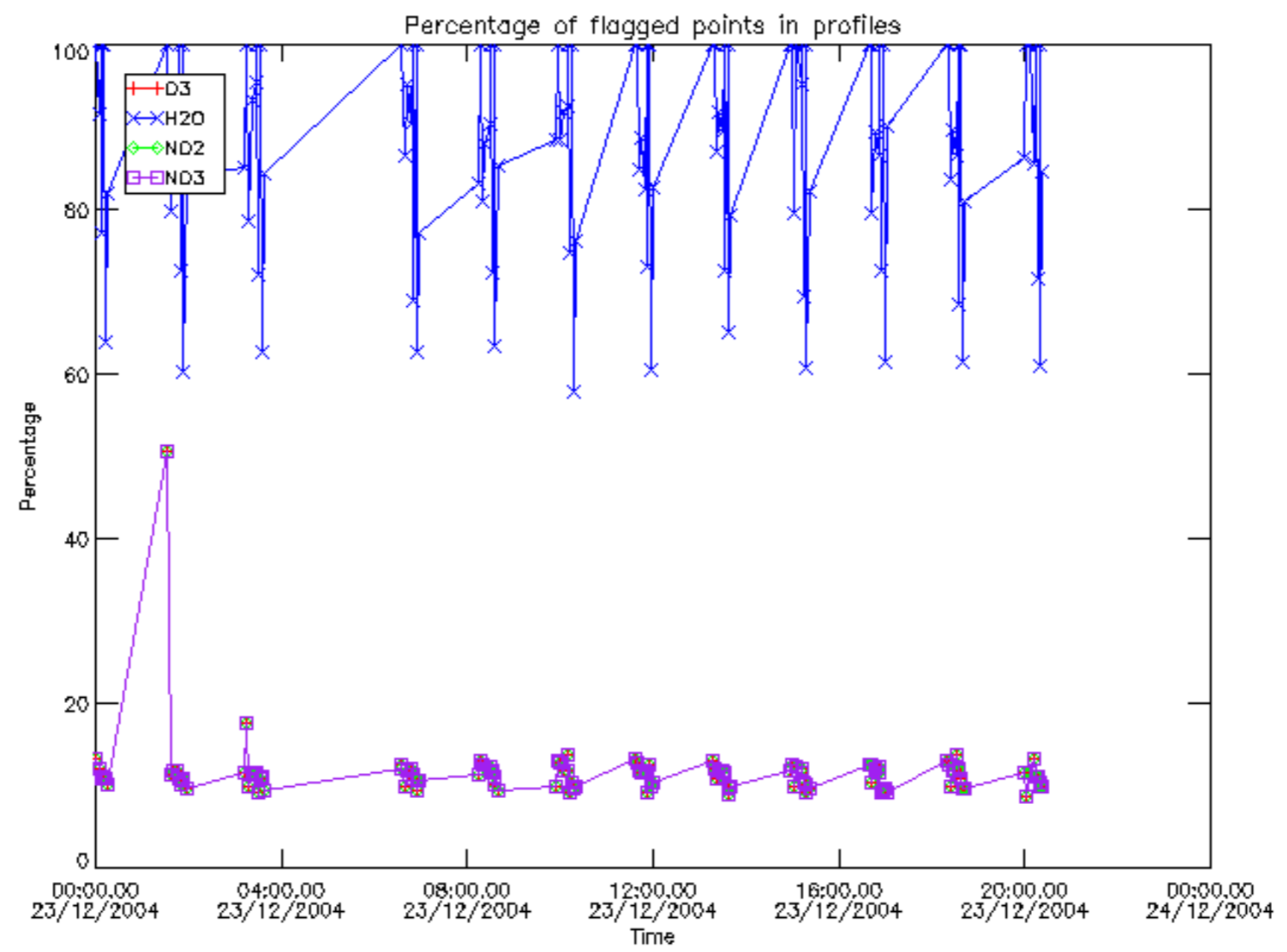
The colorbar represents the latitude.



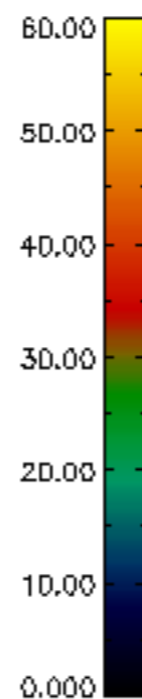
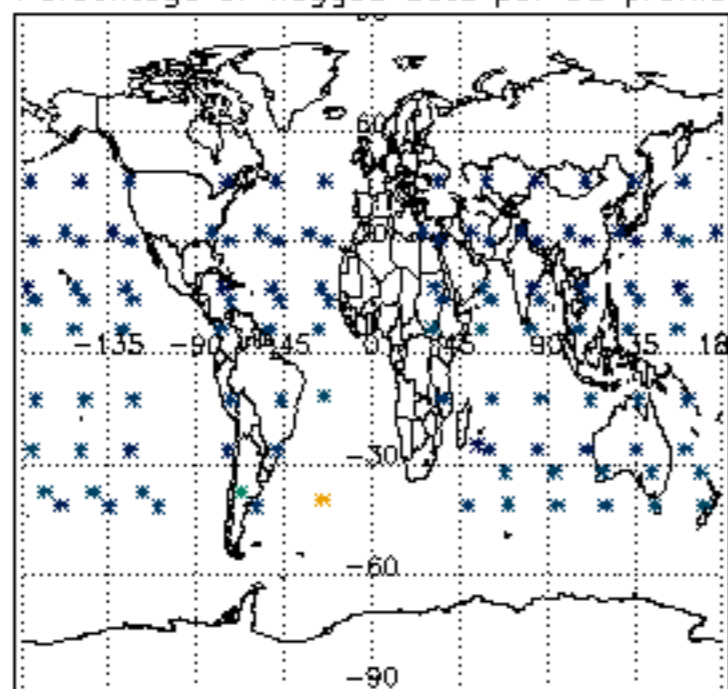
6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

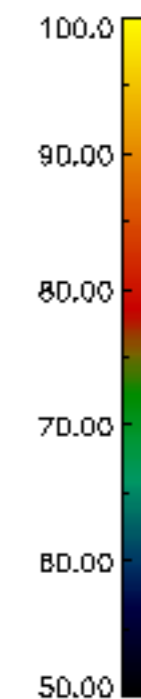
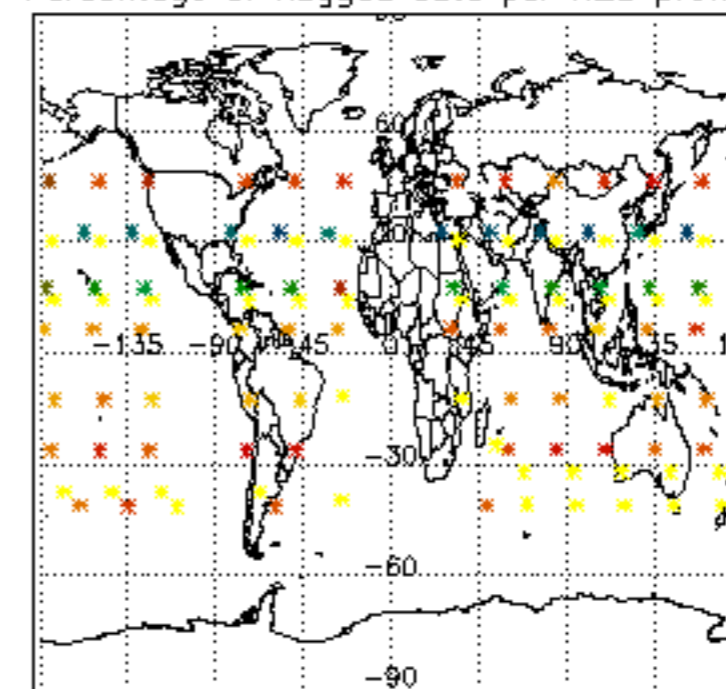
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	23-DEC-2004 00:00:52
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	23-DEC-2004 00:00:52
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	23-DEC-2004 00:00:52



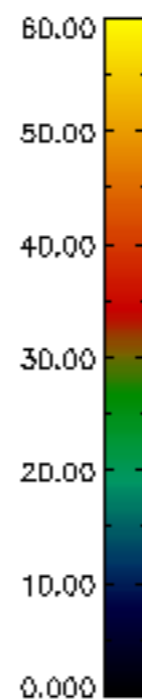
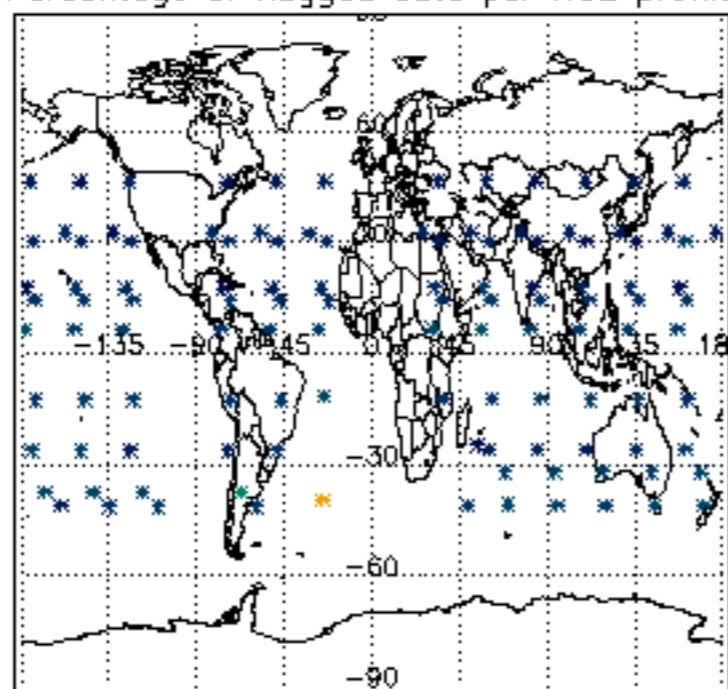
Percentage of flagged data per D3 profile



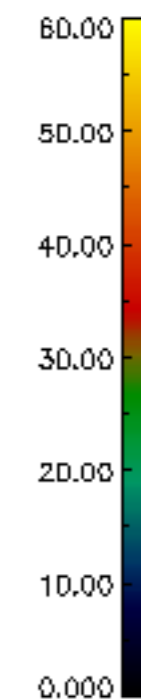
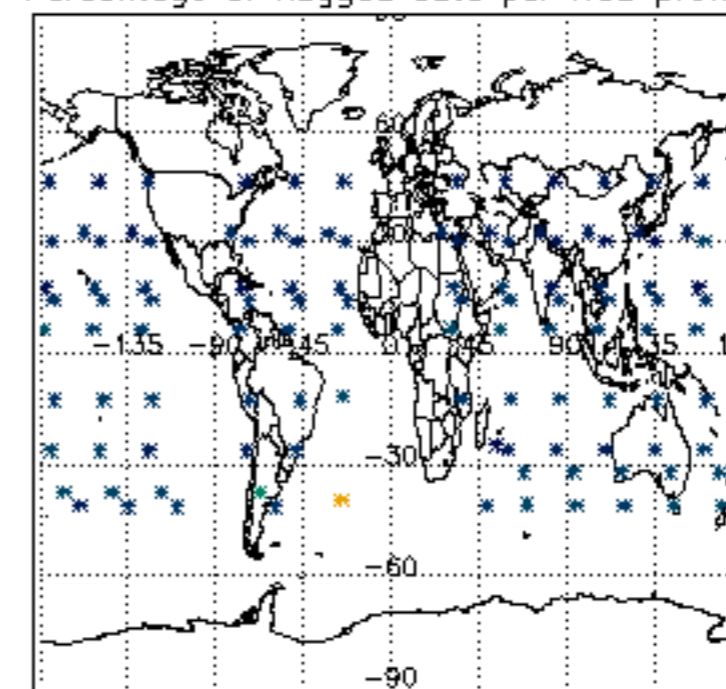
Percentage of flagged data per H2O profile

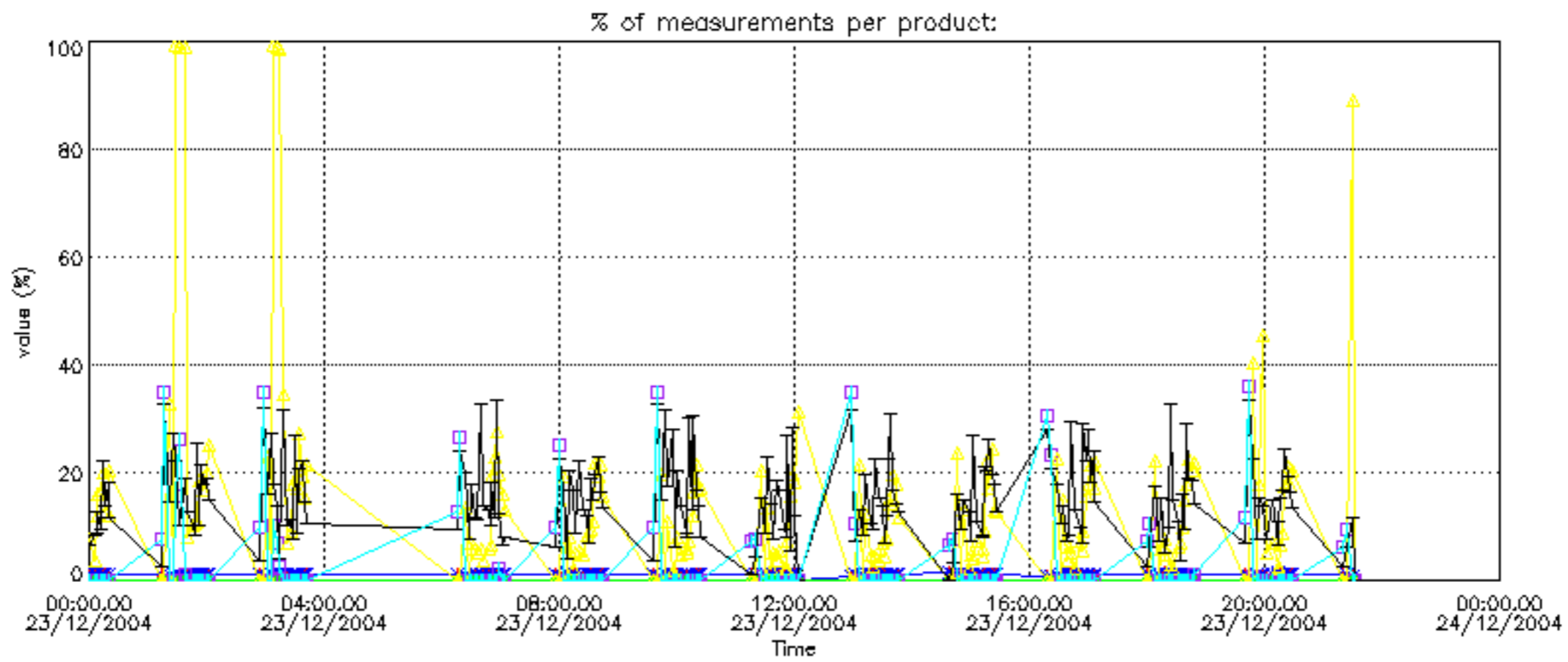


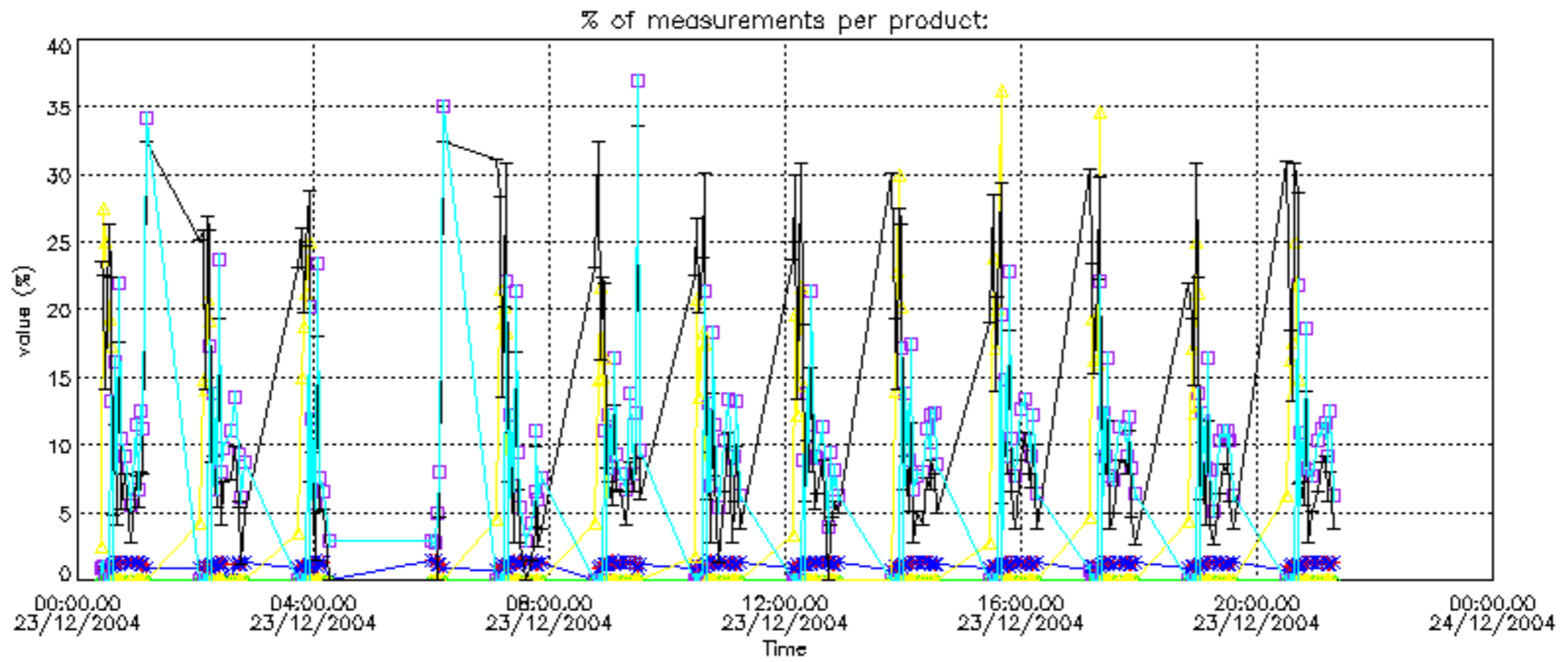
Percentage of flagged data per NO2 profile



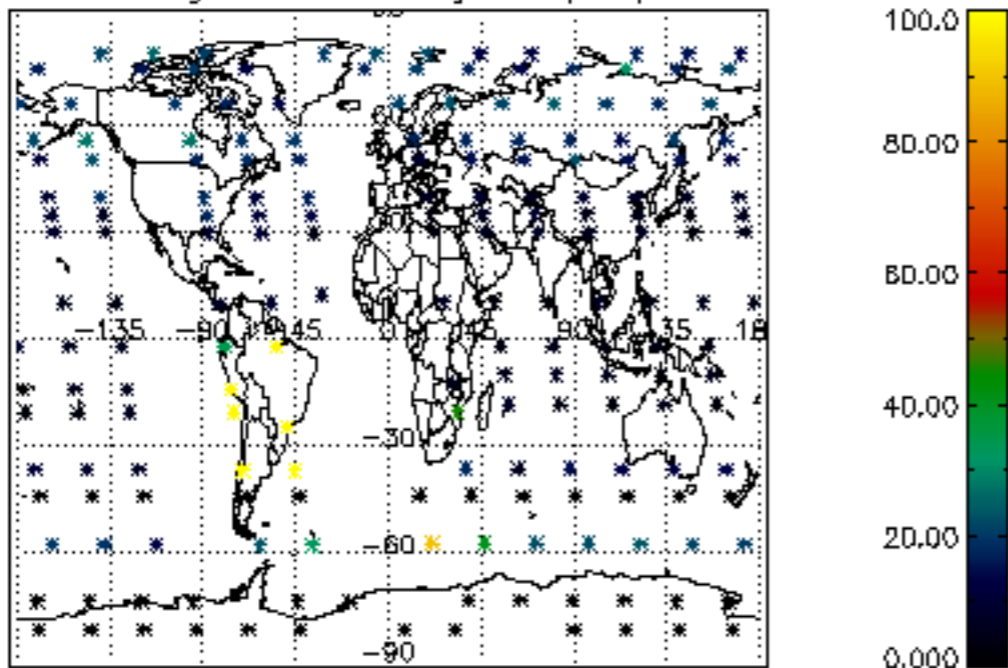
Percentage of flagged data per NO3 profile



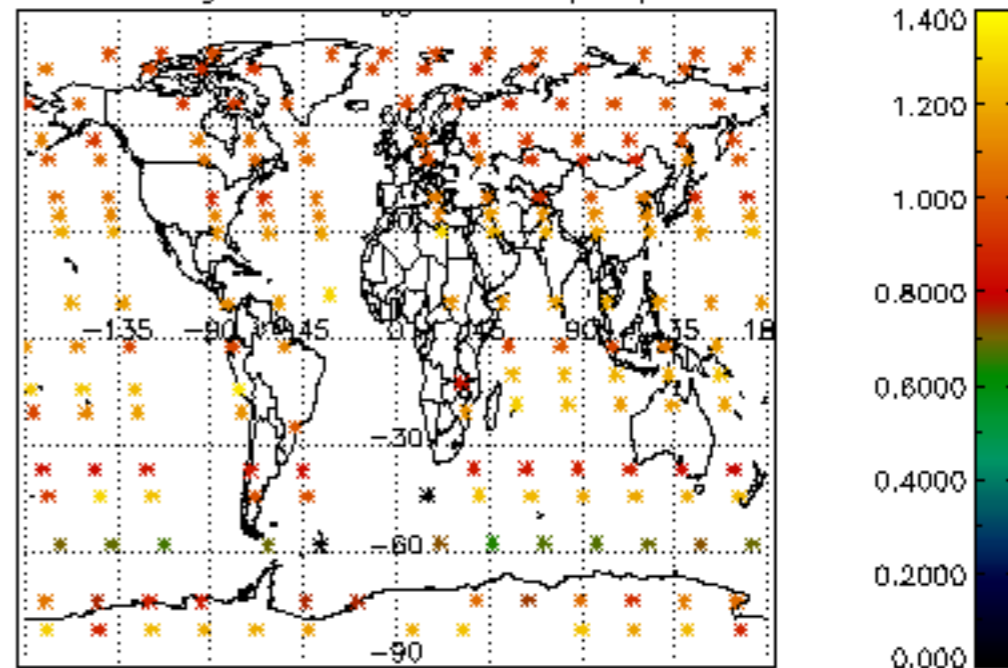




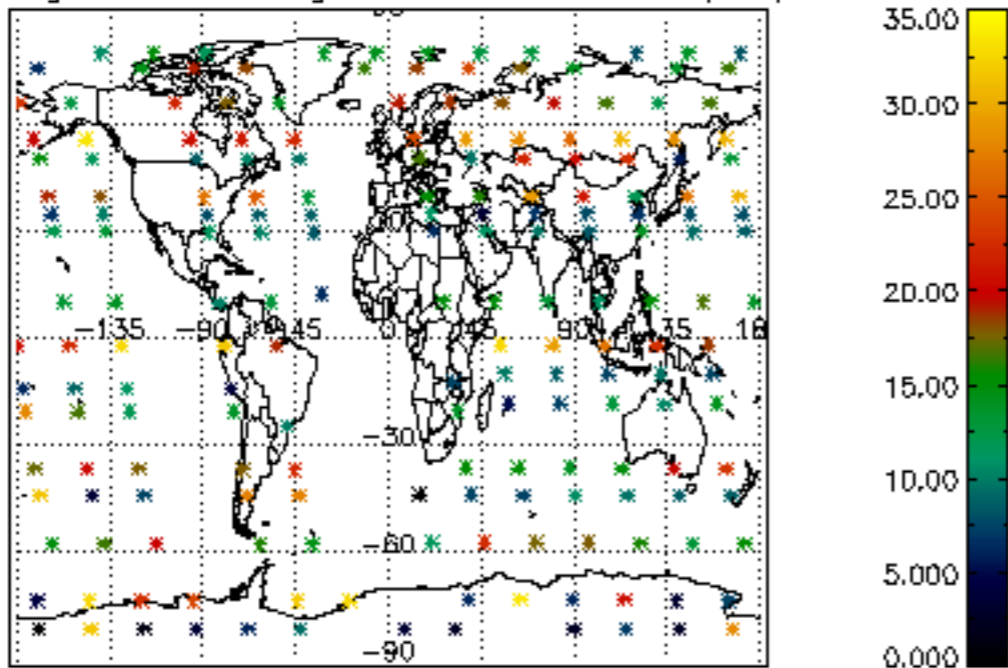
Percentage of cosmic ray hits per profile



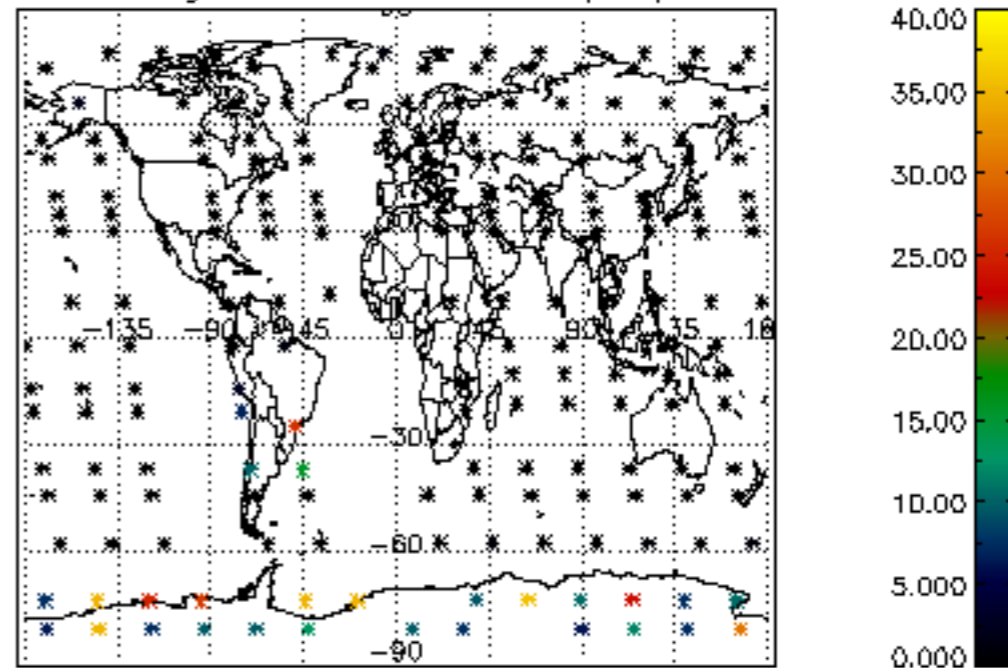
Percentage of datation errors per profile



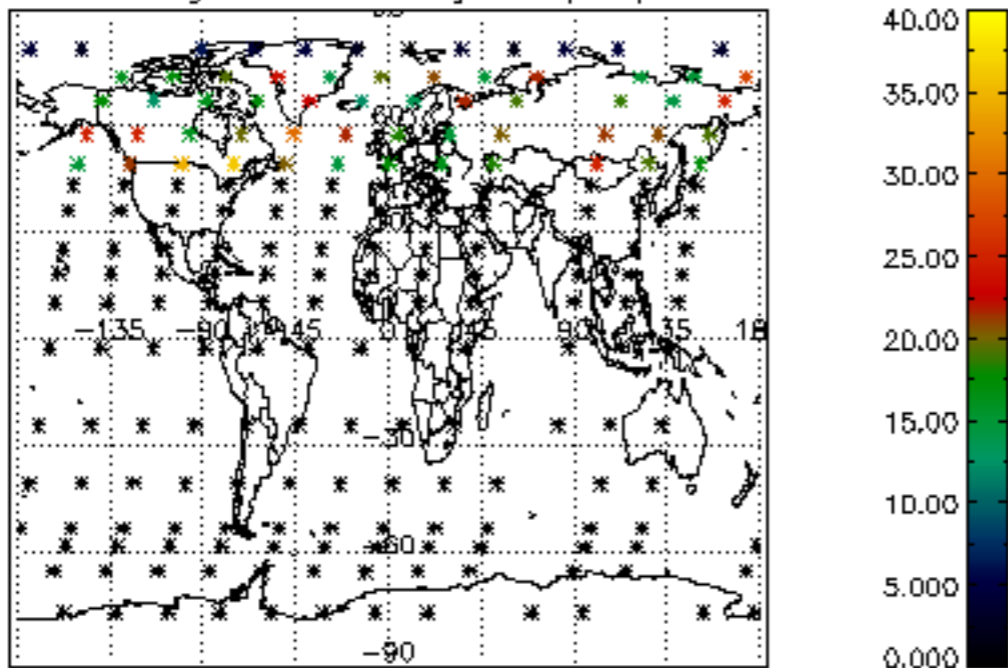
Percentage of star falling outside central band per profile



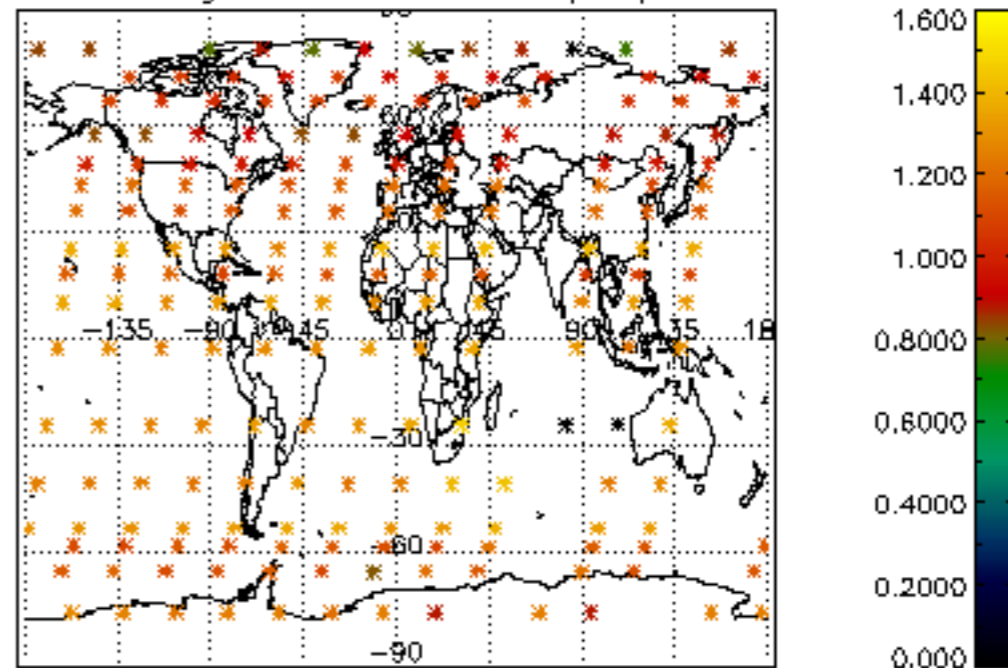
Percentage of saturation errors per profile



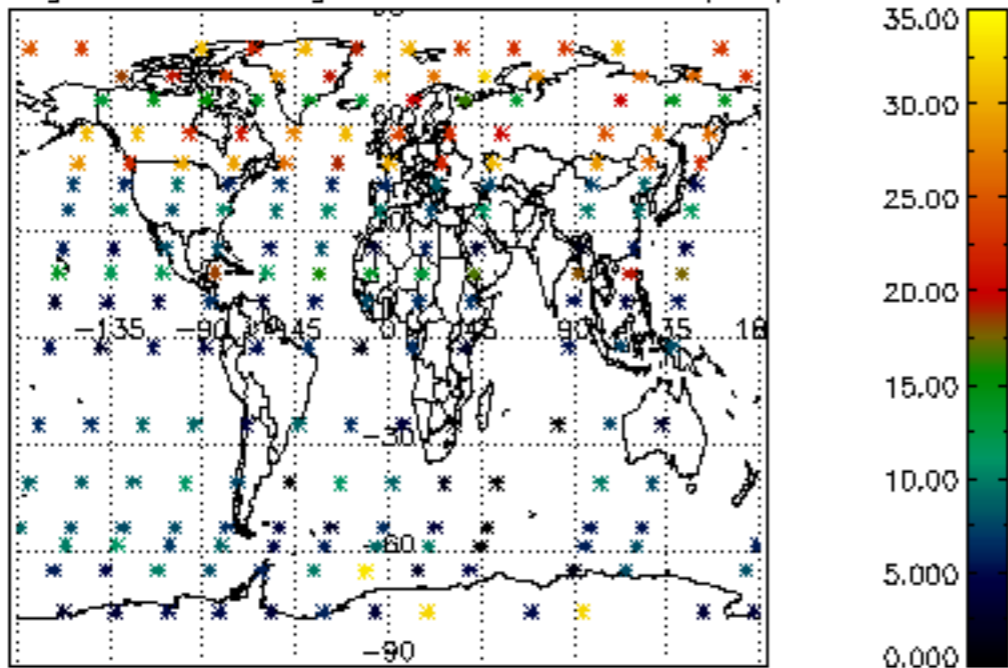
Percentage of cosmic ray hits per profile



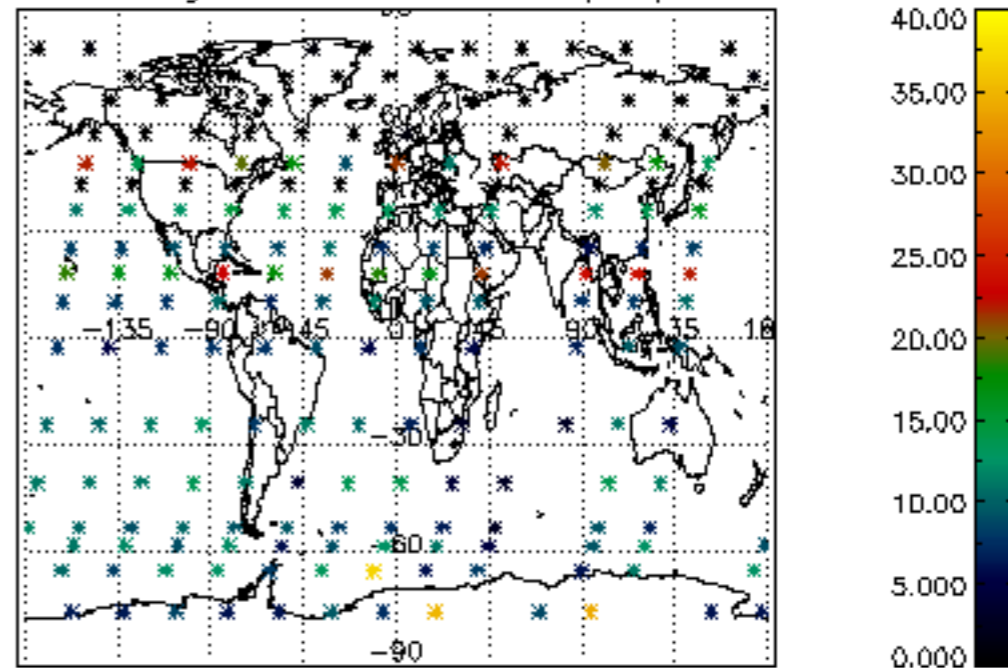
Percentage of datation errors per profile

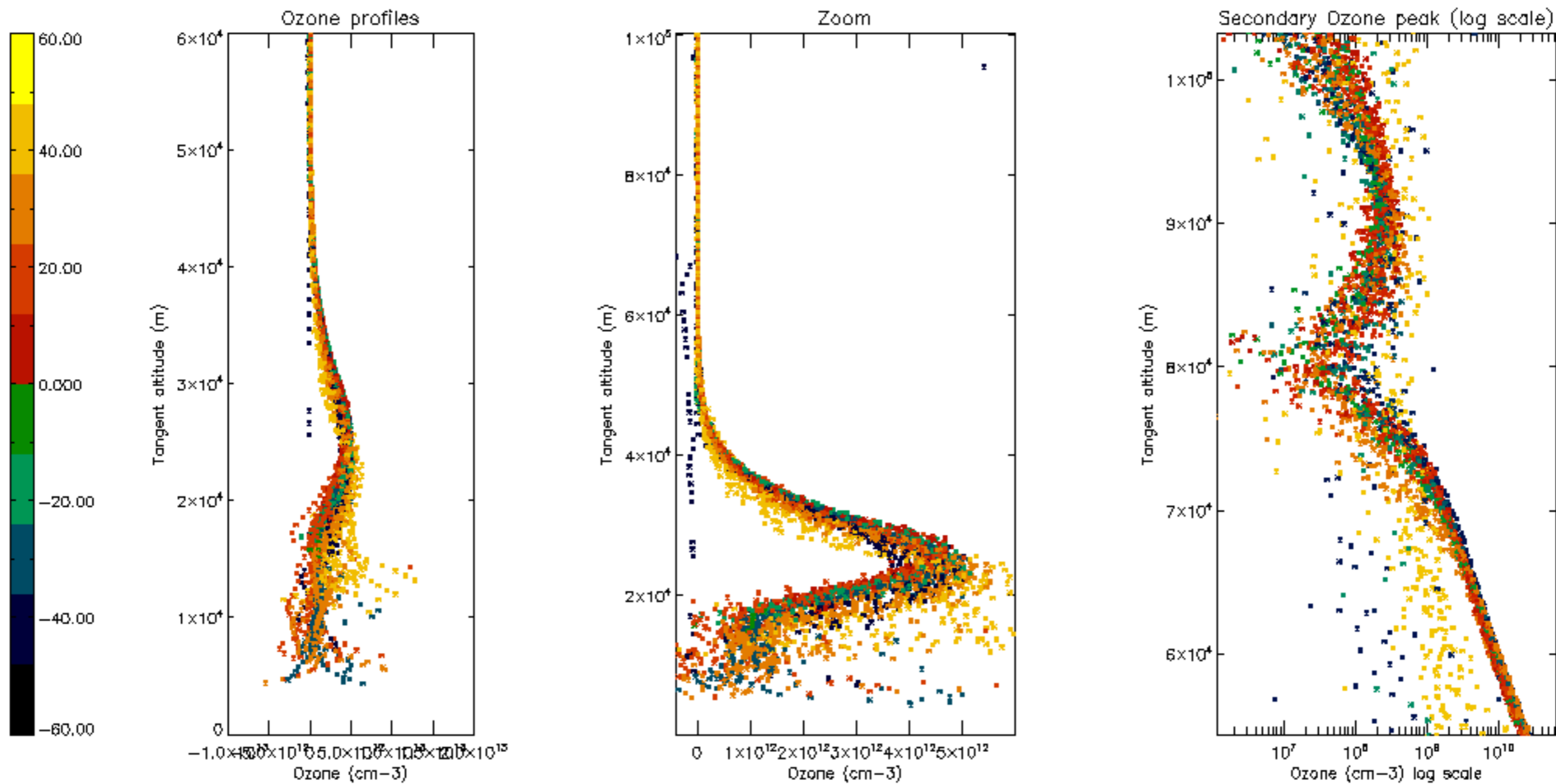


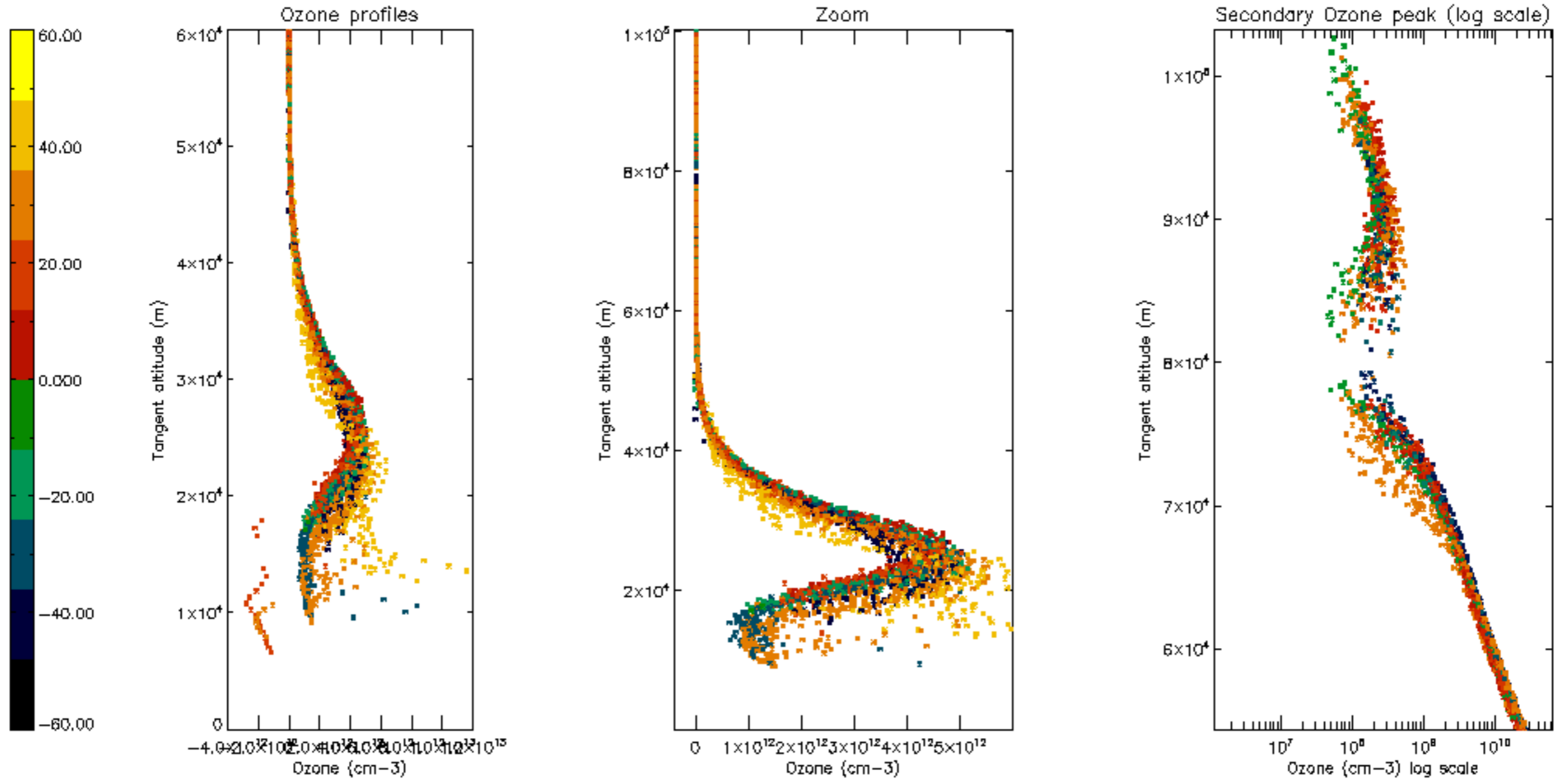
Percentage of star falling outside central band per profile

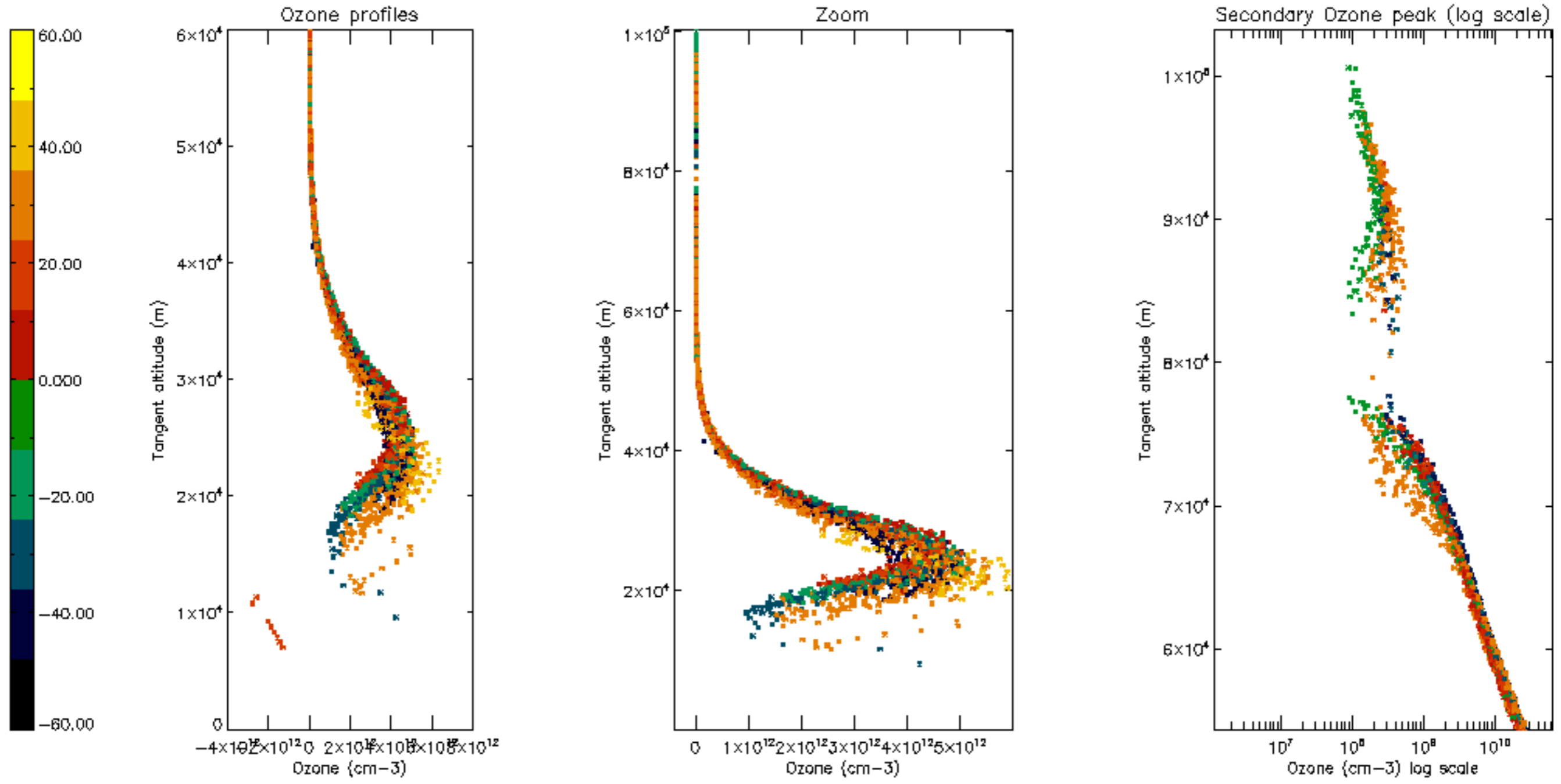


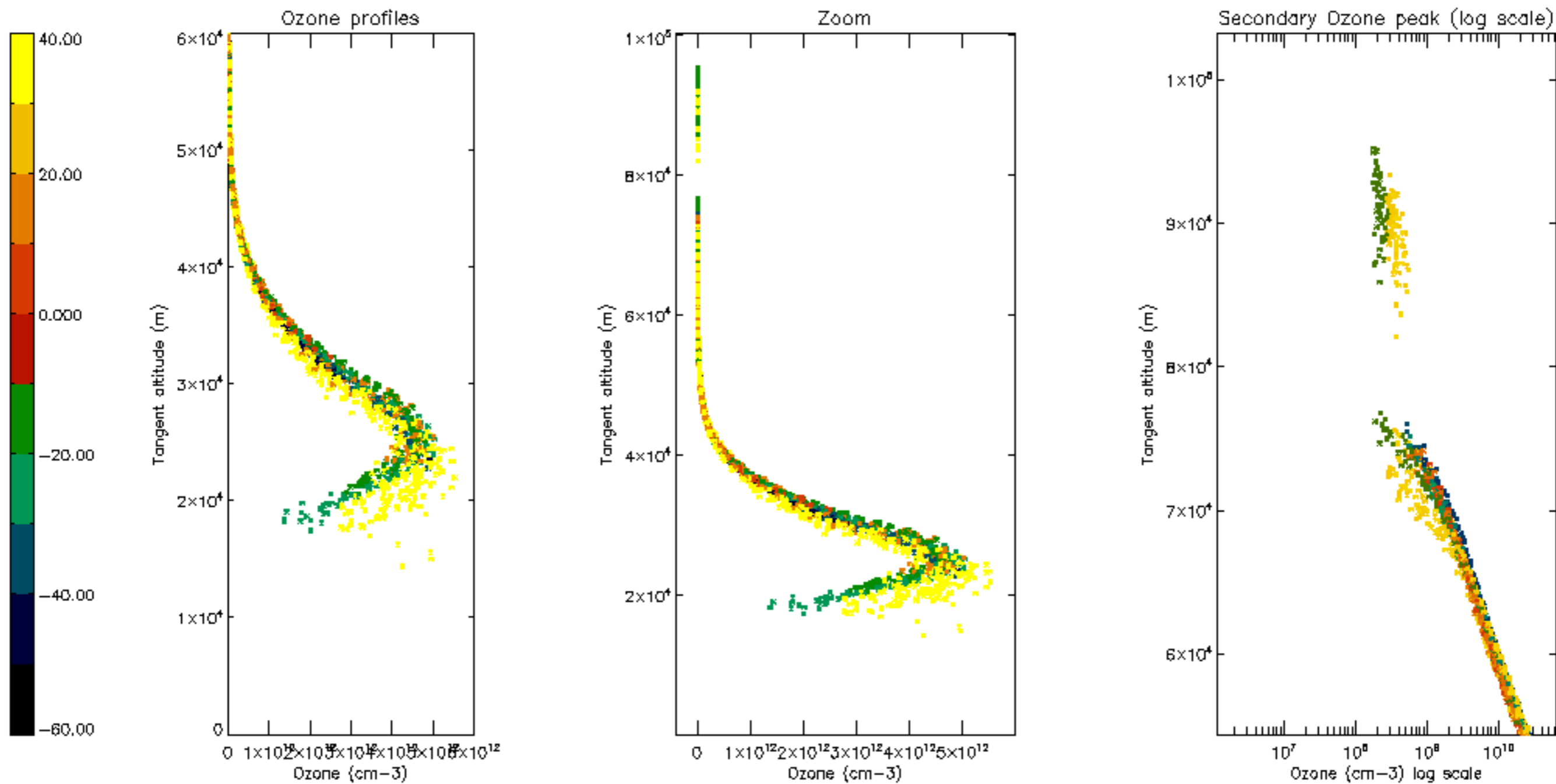
Percentage of saturation errors per profile

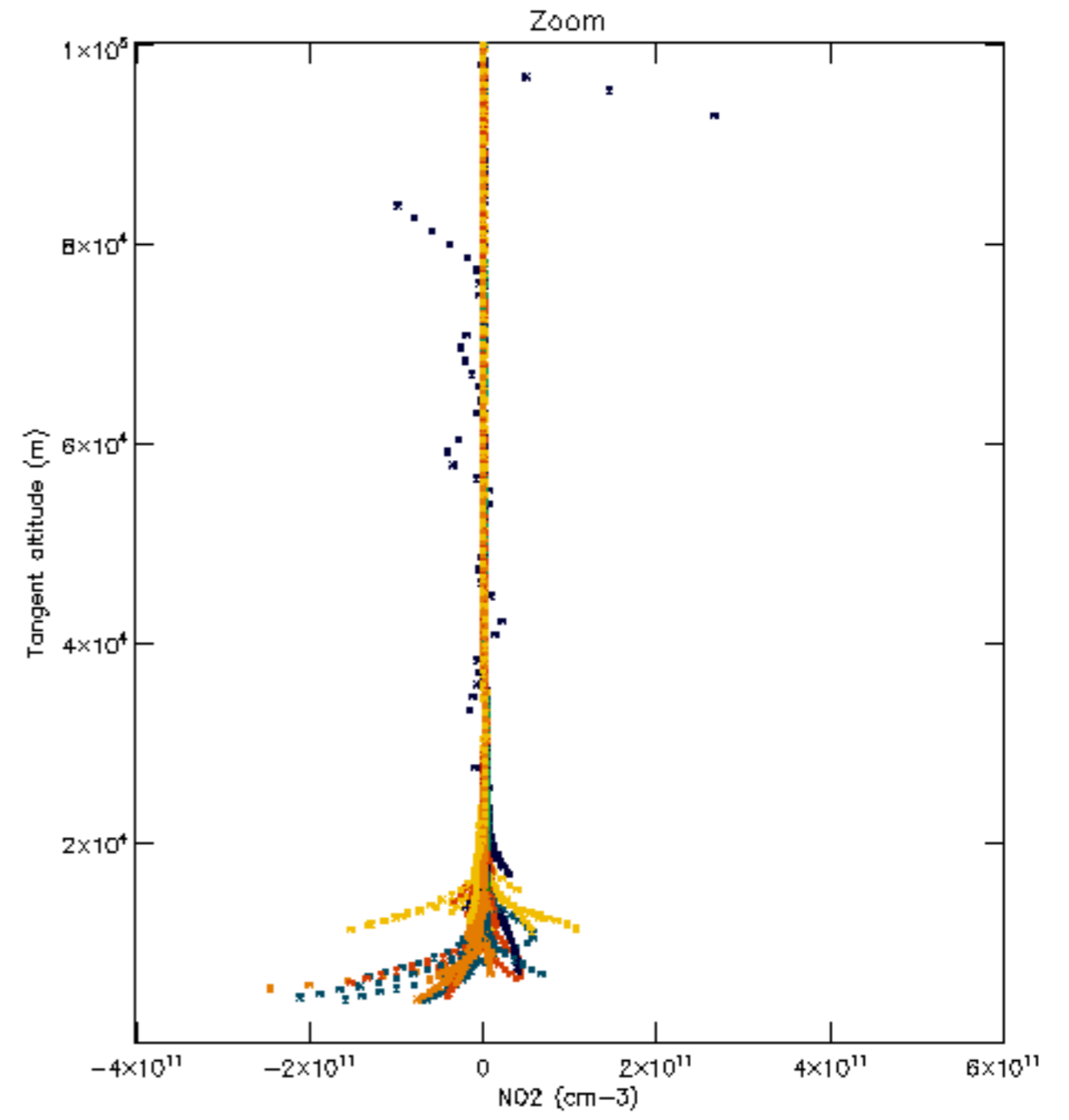
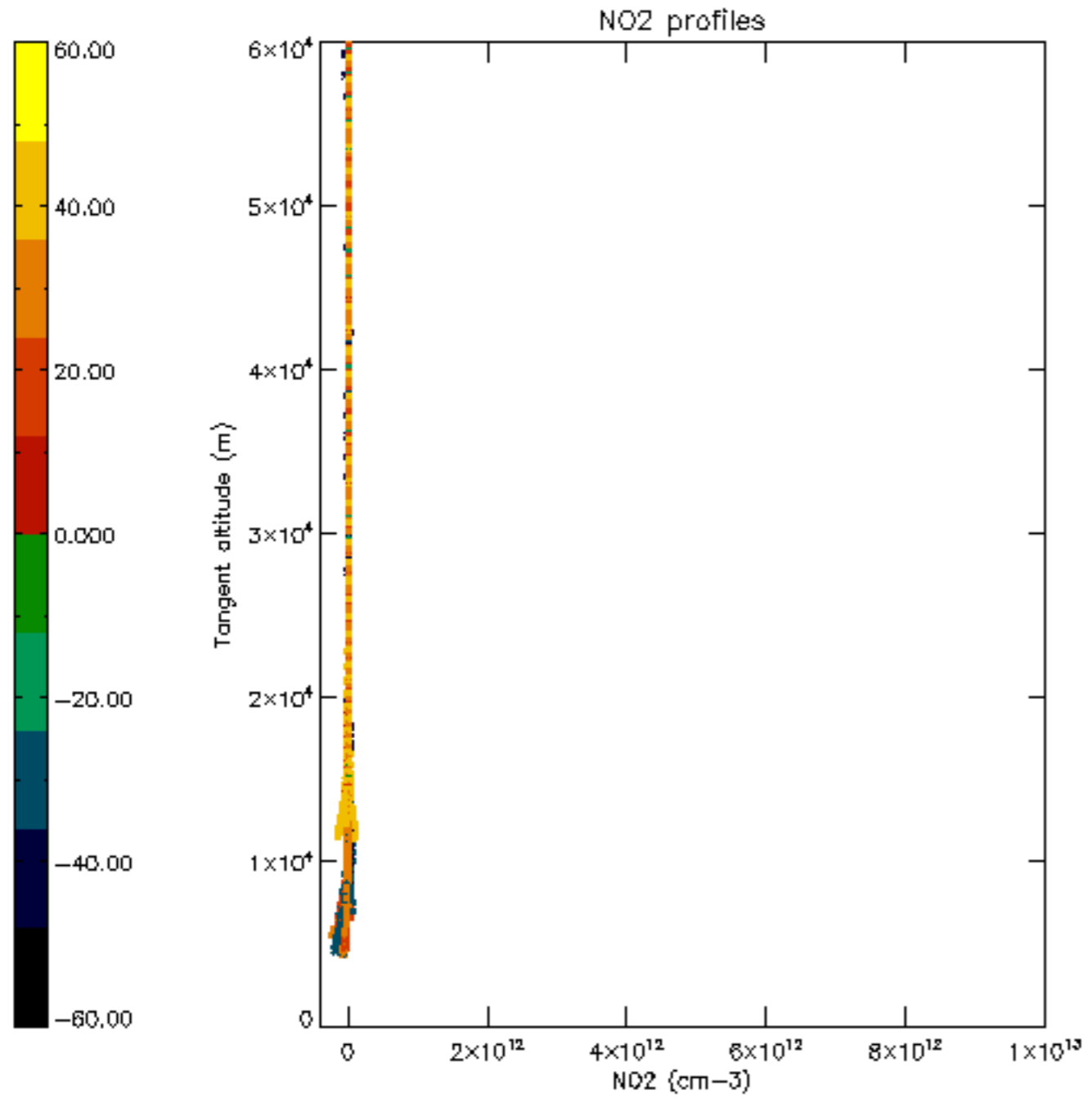


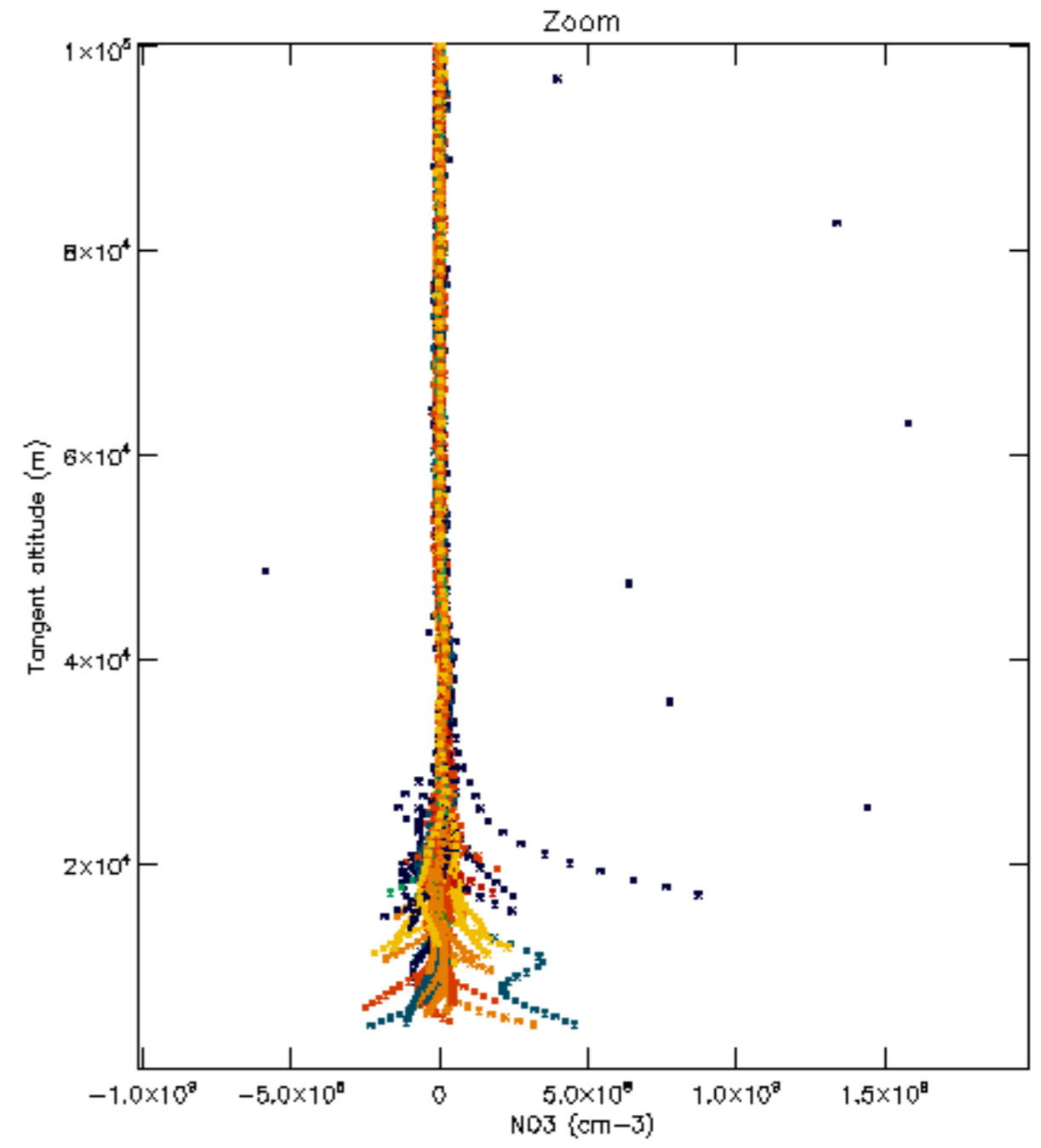
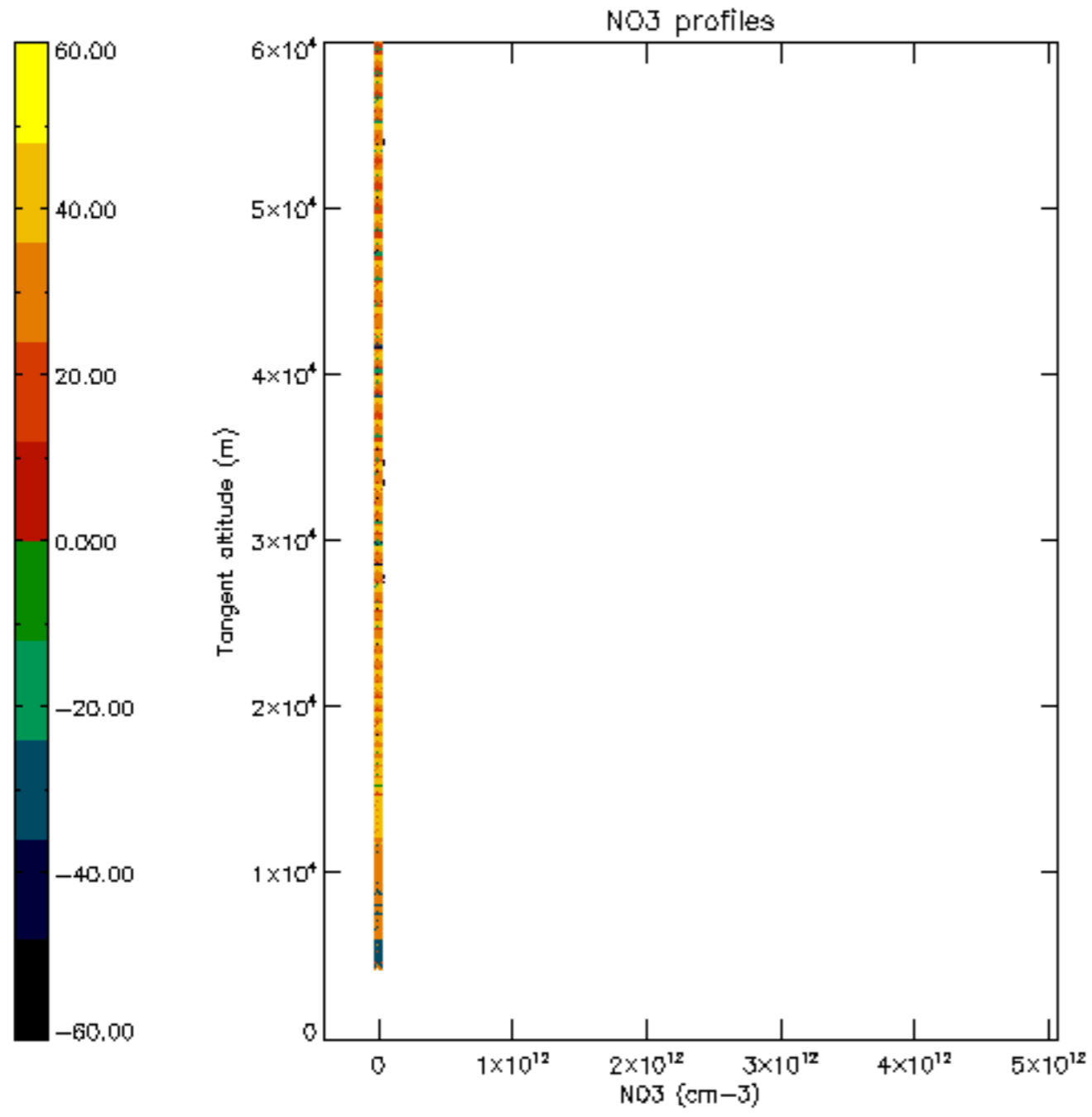


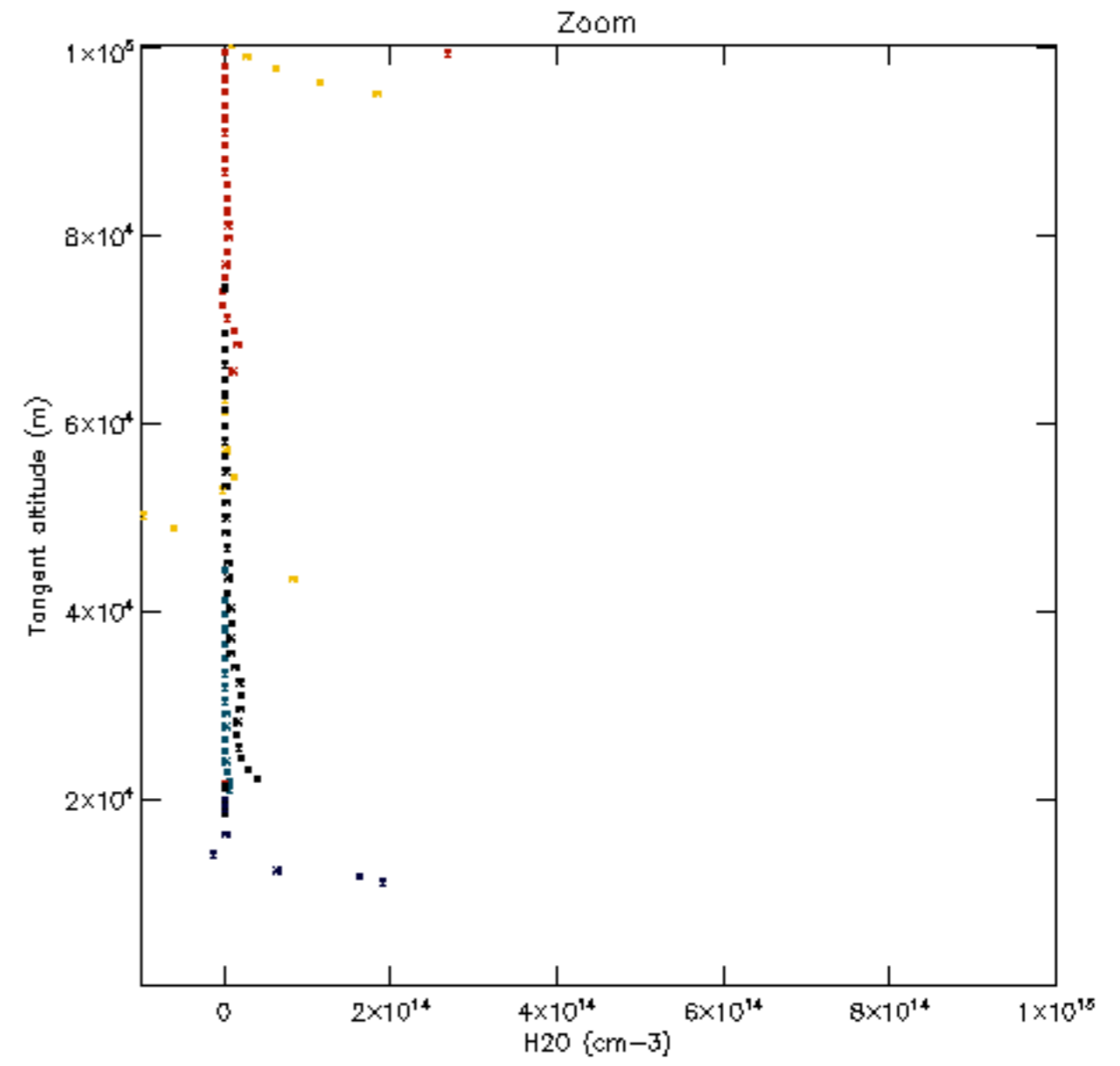
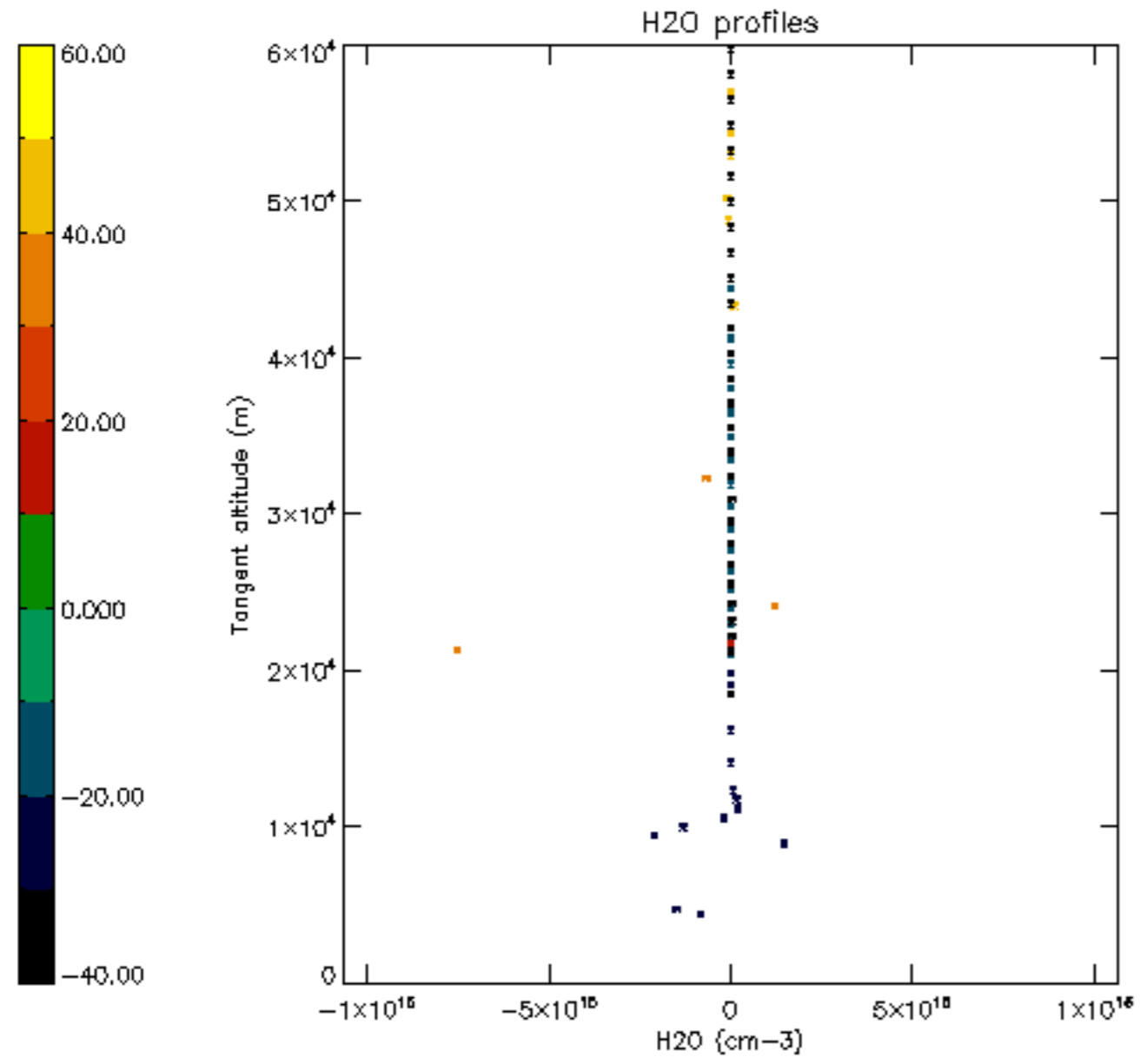


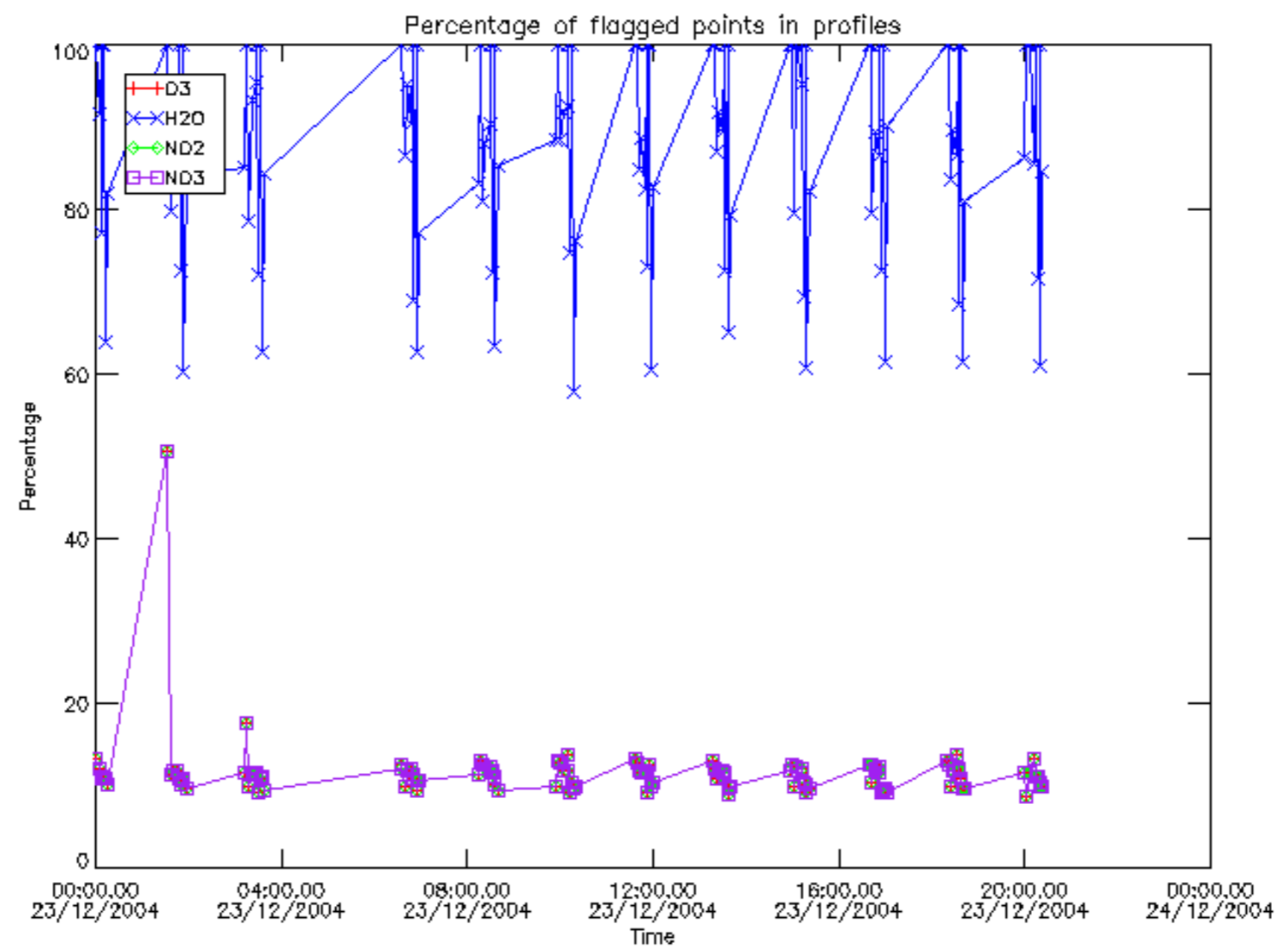




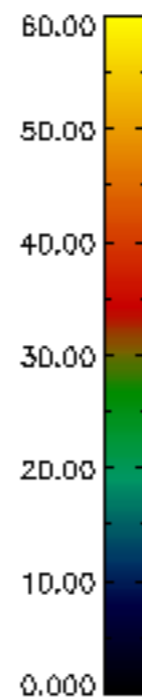
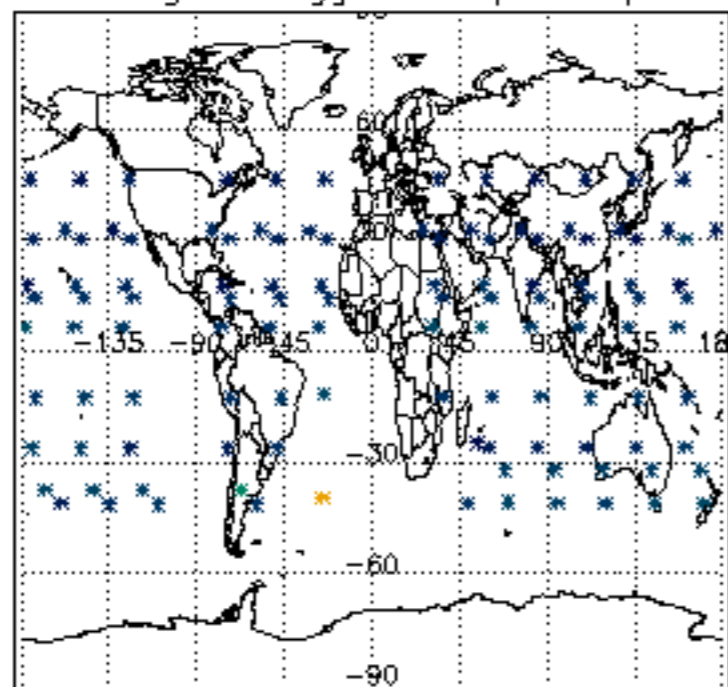




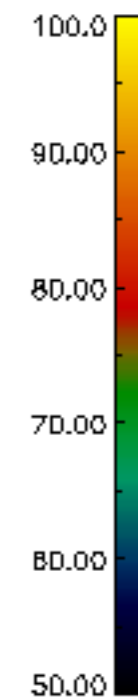
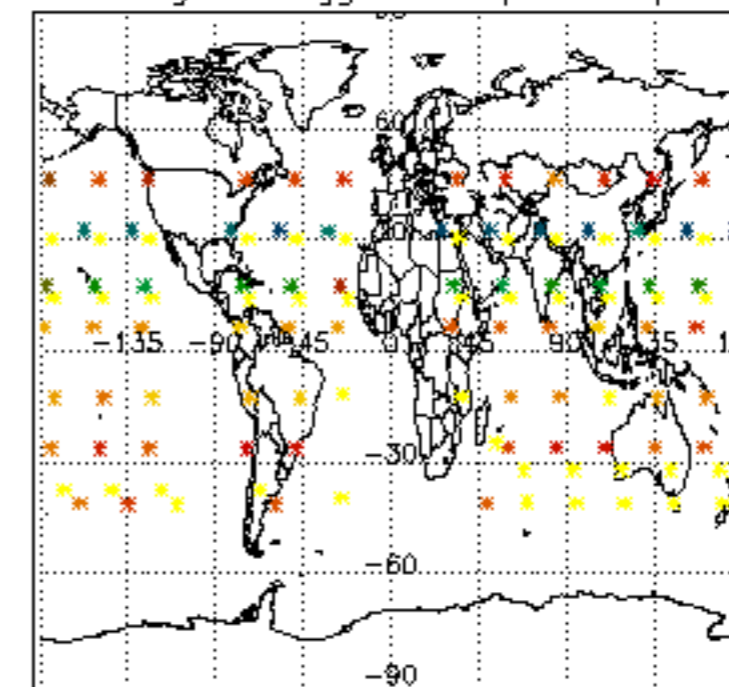




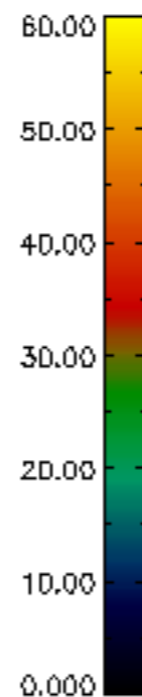
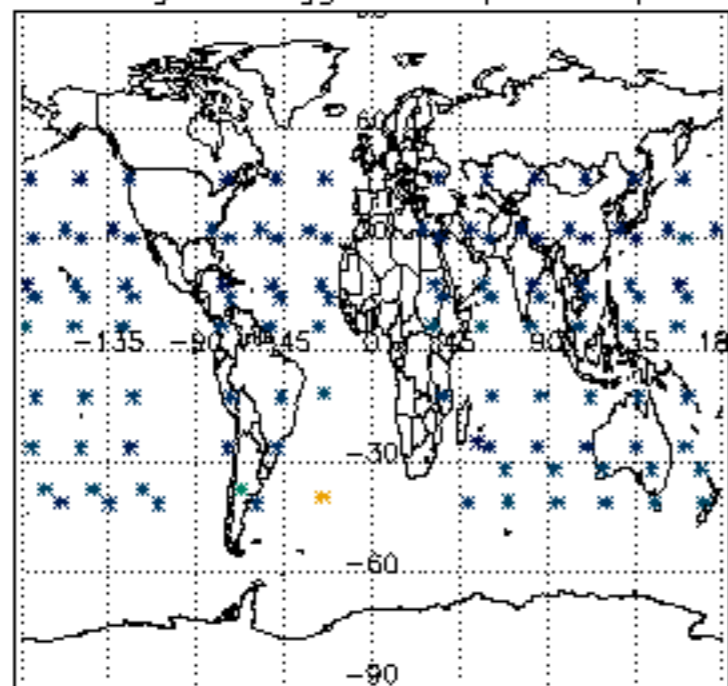
Percentage of flagged data per D3 profile



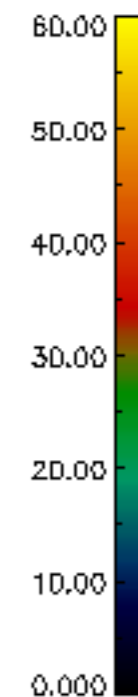
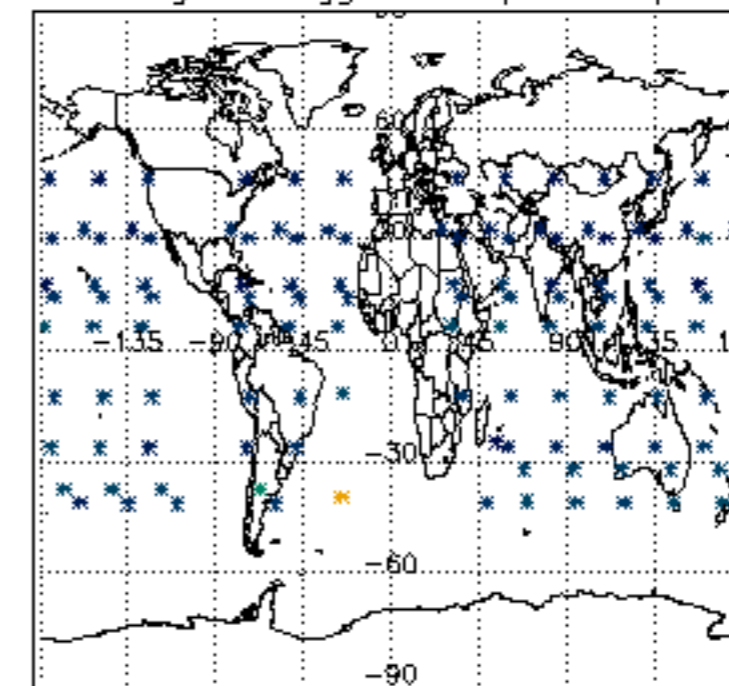
Percentage of flagged data per H2O profile

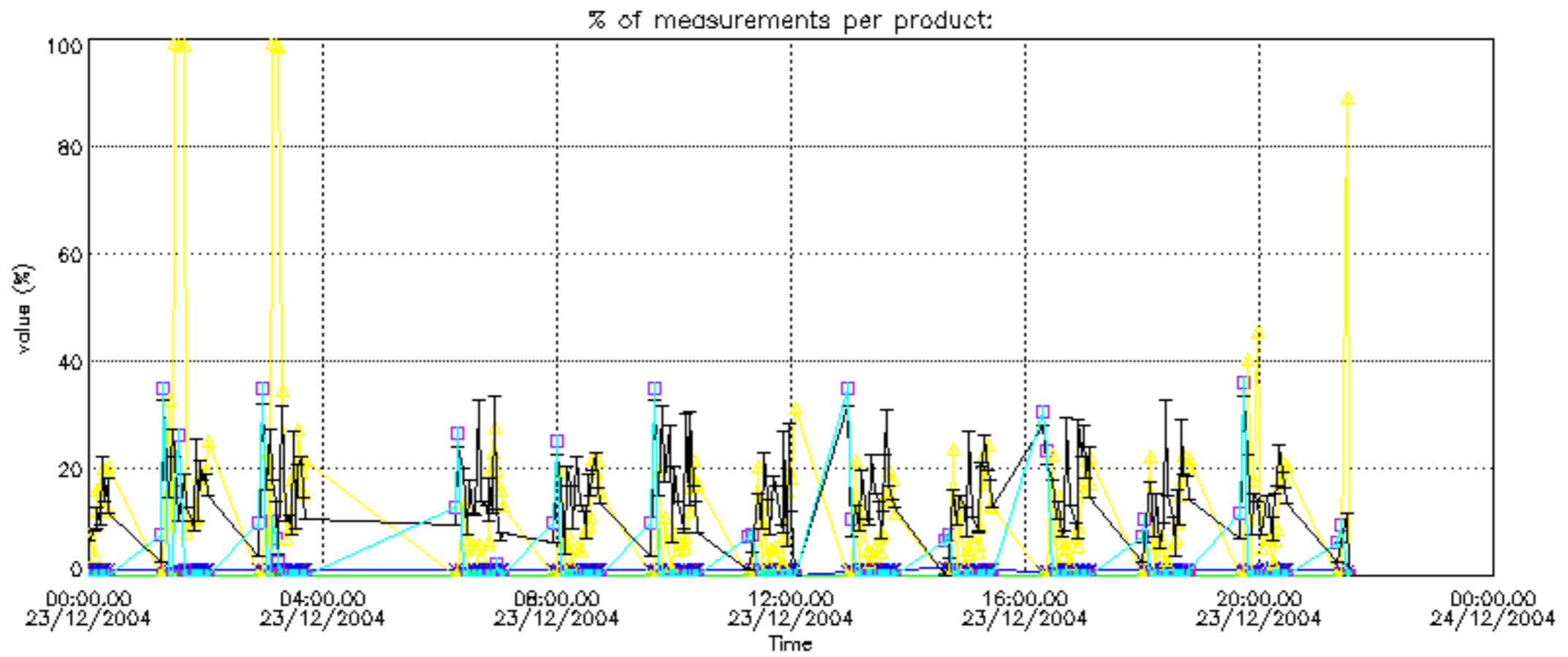


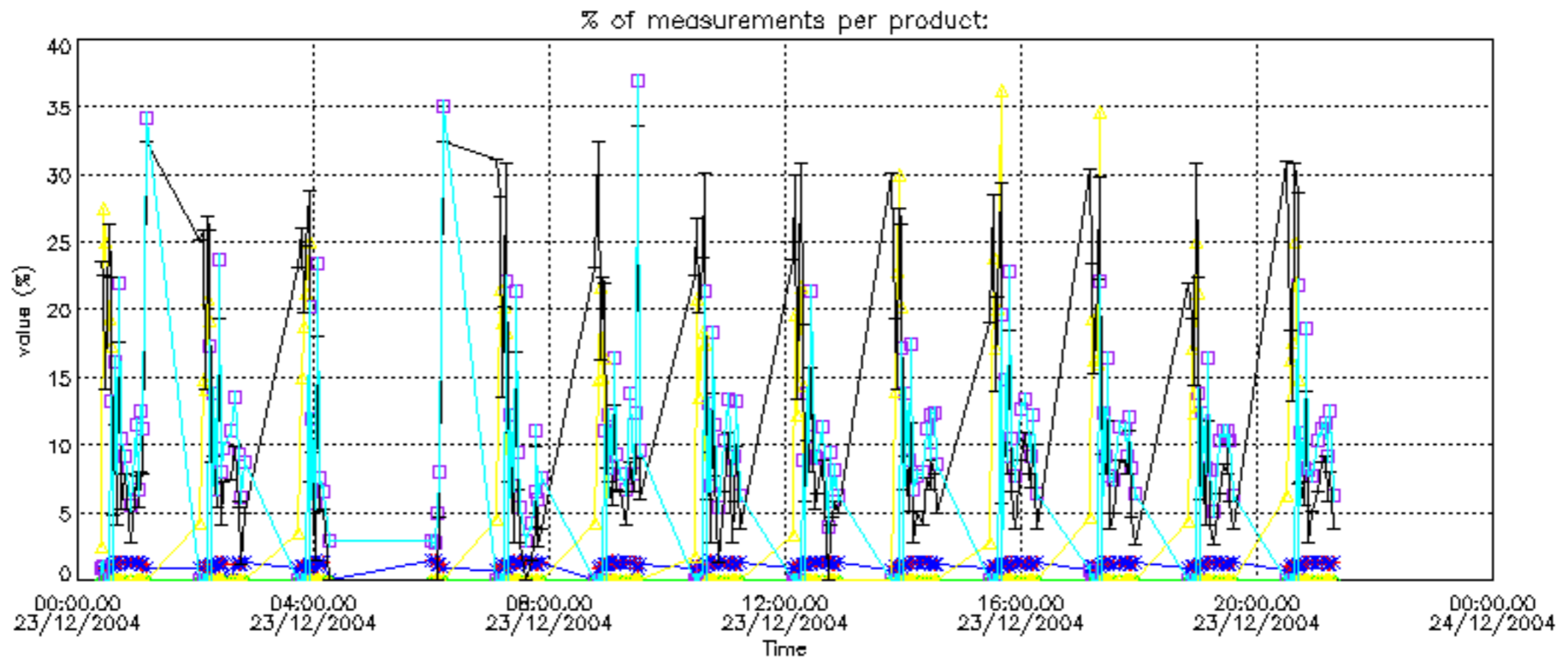
Percentage of flagged data per NO2 profile



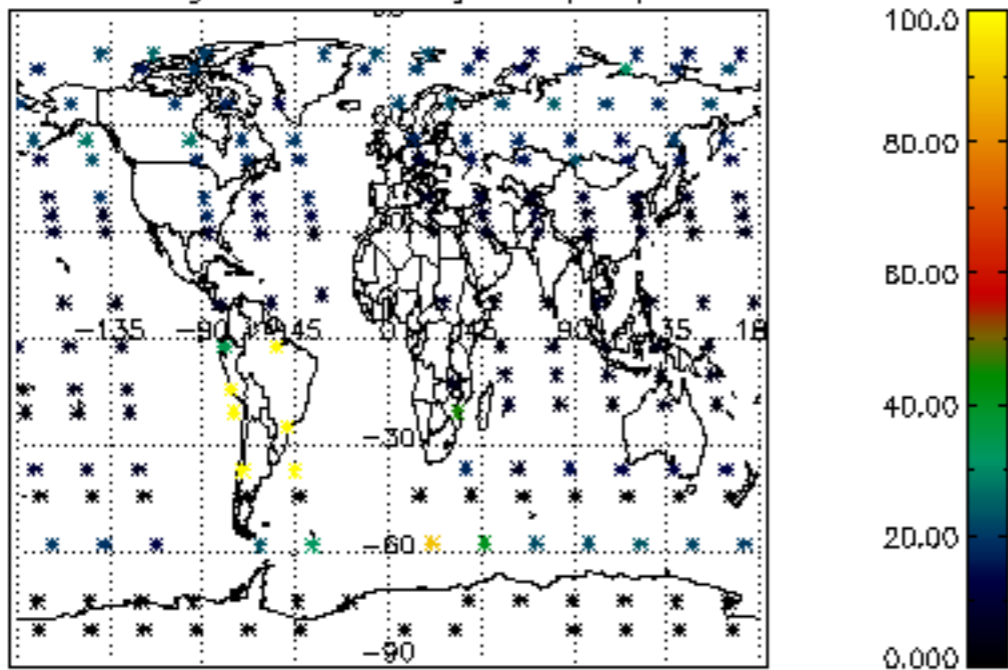
Percentage of flagged data per NO3 profile



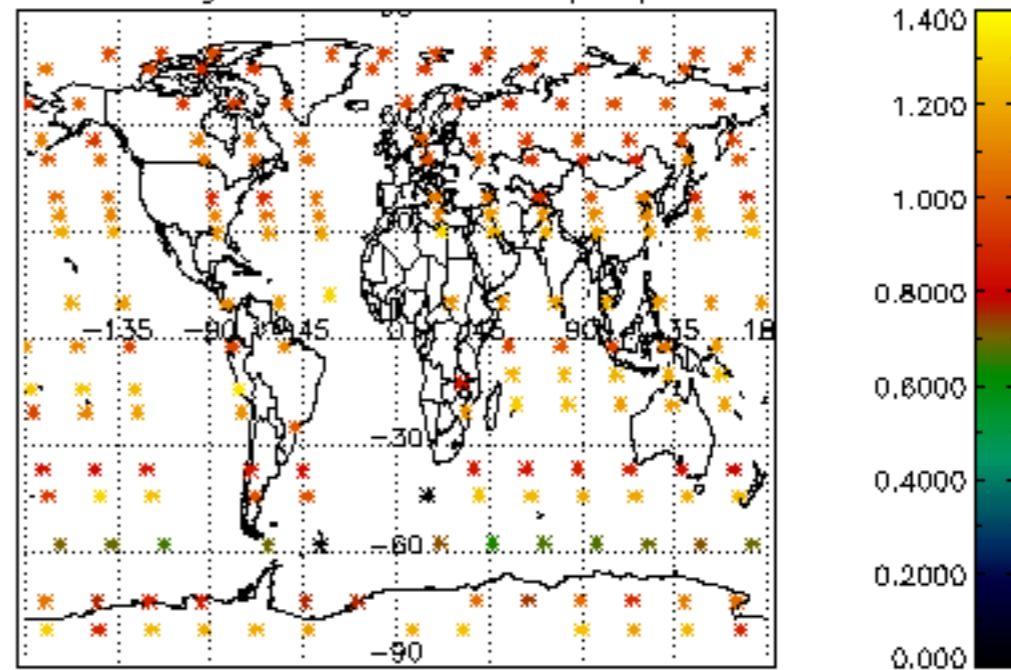




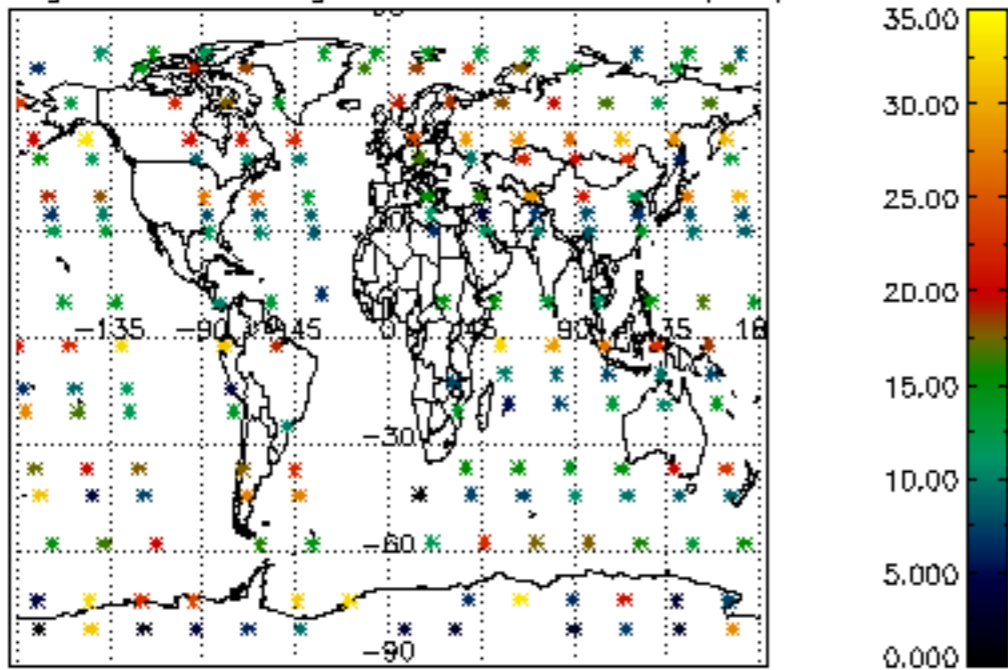
Percentage of cosmic ray hits per profile



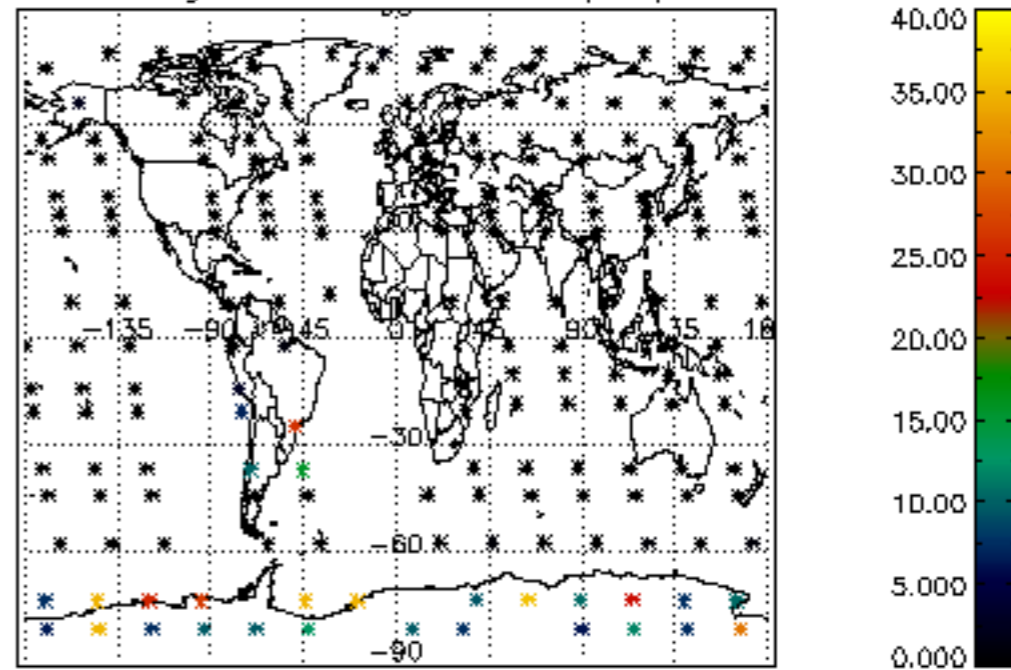
Percentage of datation errors per profile



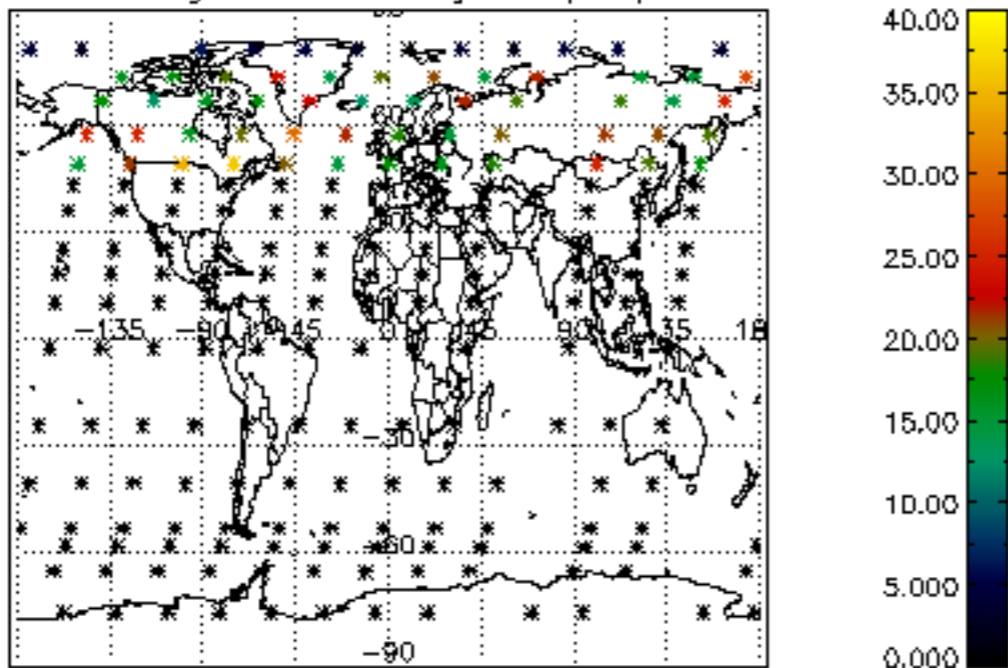
Percentage of star falling outside central band per profile



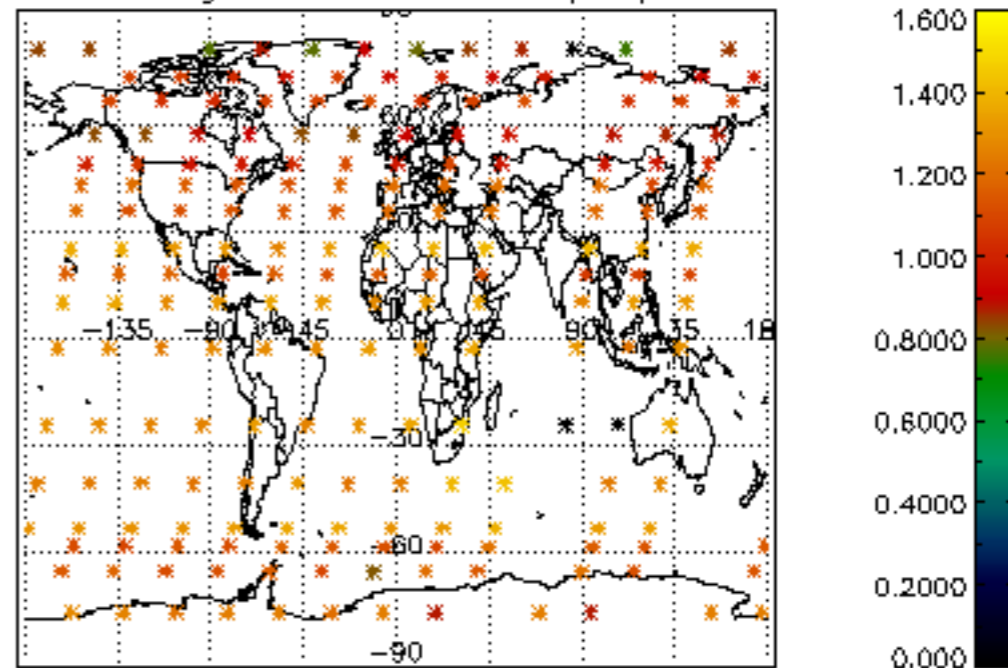
Percentage of saturation errors per profile



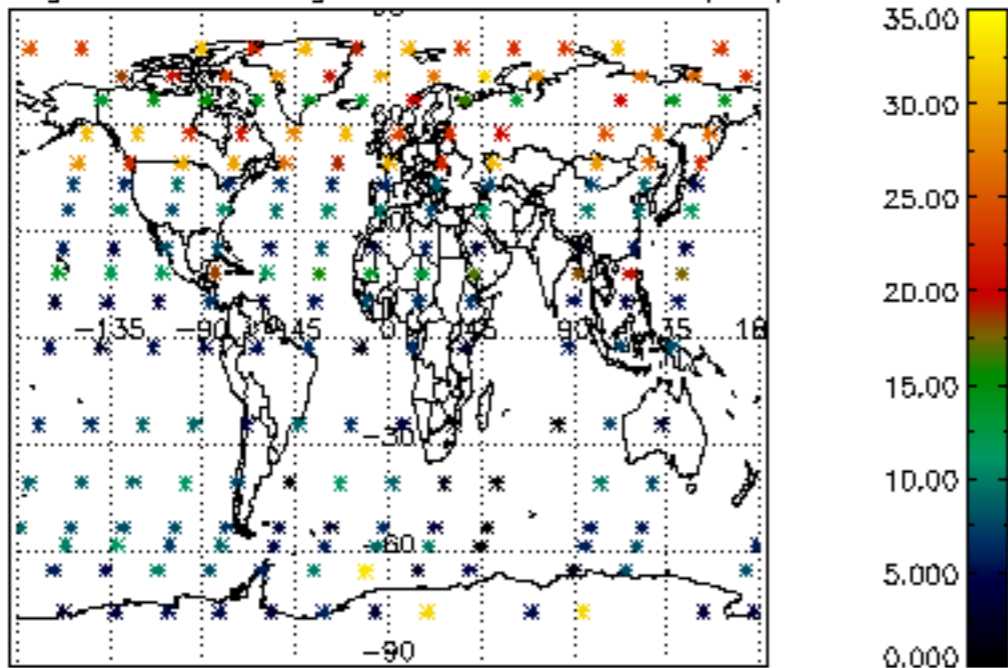
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

