

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	19APR2013 15:15:17
Data source version	GOMOS/6.01
Start time of products	14-11-2004 (14NOV2004 00:00:00)
Stop time of products	15-11-2004 (15NOV2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	44
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

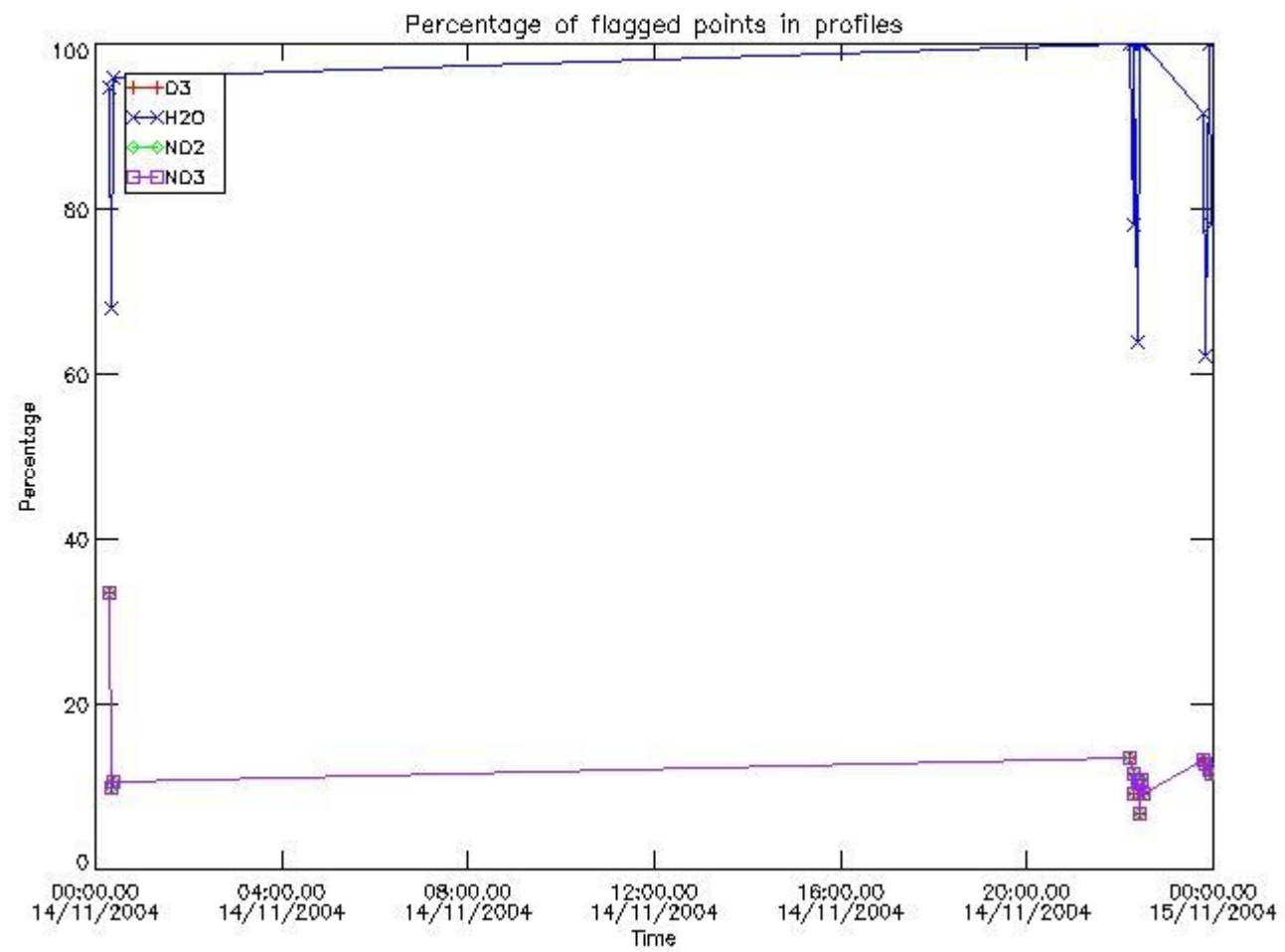
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20041114_000311_000000892032_00073_14155_6185.N1	14-NOV-2004 00:03:11	Bright	89.000	166	17Eps Leo	2.9800	6000.0	178	14155	No
2	GOM_NL__2PRFIN20041114_000753_000000842032_00073_14155_6186.N1	14-NOV-2004 00:07:53	Twilight	84.000	22	32Alp Leo	1.3600	15200.	168	14155	No
3	GOM_NL__2PRFIN20041114_001912_000000382032_00073_14155_6189.N1	14-NOV-2004 00:19:12	Dark	38.000	64	Gam Cen	2.2000	10600.	76	14155	No
4	GOM_NL__2PRFIN20041114_002129_000000522032_00073_14155_6190.N1	14-NOV-2004 00:21:29	Dark	52.000	26	Gam Cru	1.6240	2900.0	104	14155	No
5	GOM_NL__2PRFIN20041114_002307_000000492032_00073_14155_6191.N1	14-NOV-2004 00:23:07	Dark	48.500	12	Alp1Cru	0.77500	30000.	97	14155	No
6	GOM_NL__2PRFIN20041114_221259_000000382032_00087_14169_6179.N1	14-NOV-2004 22:12:59	Dark	38.000	124	The Car	2.7640	30000.	76	14169	No
7	GOM_NL__2PRFIN20041114_221651_000000442032_00087_14169_6180.N1	14-NOV-2004 22:16:51	Dark	44.000	41	Eps Car	1.8600	4100.0	88	14169	No
8	GOM_NL__2PRFIN20041114_221838_000000562032_00087_14169_6181.N1	14-NOV-2004 22:18:38	Dark	56.000	70	Zet Pup	2.2460	39000.	112	14169	No
9	GOM_NL__2PRFIN20041114_222220_000000522032_00087_14169_6182.N1	14-NOV-2004 22:22:20	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	14169	No
10	GOM_NL__2PRFIN20041114_222422_000000842032_00087_14169_6183.N1	14-NOV-2004 22:24:22	Dark	83.500	88	31Eta CMa	2.4480	20000.	167	14169	No
11	GOM_NL__2PRFIN20041114_222719_000000522032_00087_14169_6184.N1	14-NOV-2004 22:27:19	Dark	51.500	9	Alp Eri	0.45300	24000.	103	14169	No
12	GOM_NL__2PRFIN20041114_222904_000000562032_00087_14169_6185.N1	14-NOV-2004 22:29:04	Dark	55.500	108	Alp Col	2.6520	15200.	111	14169	No
13	GOM_NL__2PRFIN20041114_223108_000000402032_00087_14169_6186.N1	14-NOV-2004 22:31:08	Straylight	39.500	157	The1Eri	2.9060	9300.0	79	14169	No
14	GOM_NL__2PRFIN20041114_223448_000000712032_00087_14169_6187.N1	14-NOV-2004 22:34:48	Straylight	70.500	139	9Bet Lep	2.8330	5600.0	141	14169	No
15	GOM_NL__2PRFIN20041114_223828_000000532032_00087_14169_6188.N1	14-NOV-2004 22:38:28	Straylight	52.500	165	34Gam Eri	2.9500	3200.0	105	14169	No
16	GOM_NL__2PRFIN20041114_224107_000000912032_00087_14169_6189.N1	14-NOV-2004 22:41:07	Twilight	90.500	7	19Bet Ori	0.10000	14000.	181	14169	No
17	GOM_NL__2PRFIN20041114_224404_000000492032_00087_14169_6190.N1	14-NOV-2004 22:44:04	Twilight	48.500	94	92Alp Cet	2.5260	3100.0	97	14169	No
18	GOM_NL__2PRFIN20041114_224852_000000372032_00087_14169_6191.N1	14-NOV-2004 22:48:52	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	14169	No
19	GOM_NL__2PRFIN20041114_225109_000000452032_00087_14169_6192.N1	14-NOV-2004 22:51:09	Bright	45.000	146	25Eta Tau	2.8730	15200.	90	14169	No
20	GOM_NL__2PRFIN20041114_225252_000000372032_00087_14169_6193.N1	14-NOV-2004 22:52:52	Bright	37.000	173	4Bet Tri	3.0040	8900.0	74	14169	No
21	GOM_NL__2PRFIN20041114_225456_000000402032_00087_14169_6194.N1	14-NOV-2004 22:54:56	Bright	40.000	73	57Gam1And	2.2600	13100.	80	14169	No
22	GOM_NL__2PRFIN20041114_225620_000000432032_00087_14169_6195.N1	14-NOV-2004 22:56:20	Bright	43.000	149	45Eps Per	2.8880	30000.	86	14169	No
23	GOM_NL__2PRFIN20041114_225806_000000412032_00087_14169_6196.N1	14-NOV-2004 22:58:06	Bright	41.000	35	33Alp Per	1.7950	6250.0	82	14169	No
24	GOM_NL__2PRFIN20041114_225959_000000382032_00087_14169_6197.N1	14-NOV-2004 22:59:59	Bright	38.000	110	37Del Cas	2.6780	8900.0	76	14169	No
25	GOM_NL__2PRFIN20041114_230151_000000562032_00087_14169_6198.N1	14-NOV-2004 23:01:51	Bright	55.500	6	13Alp Aur	0.080000	3400.0	111	14169	No
26	GOM_NL__2PRFIN20041114_230455_000000602032_00087_14169_6199.N1	14-NOV-2004 23:04:55	Bright	60.000	42	34Bet Aur	1.9000	10200.	120	14169	No
27	GOM_NL__2PRFIN20041114_230811_000000382032_00087_14169_6200.N1	14-NOV-2004 23:08:11	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	14169	No
28	GOM_NL__2PRFIN20041114_231232_000000392032_00087_14169_6201.N1	14-NOV-2004 23:12:32	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	14169	No
29	GOM_NL__2PRFIN20041114_231423_000000382032_00087_14169_6202.N1	14-NOV-2004 23:14:23	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	14169	No
30	GOM_NL__2PRFIN20041114_231730_000000432032_00087_14169_6203.N1	14-NOV-2004 23:17:30	Bright	42.500	82	48Bet UMa	2.3650	10600.	85	14169	No
31	GOM_NL__2PRFIN20041114_231948_000000382032_00087_14169_6204.N1	14-NOV-2004 23:19:48	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	14169	No
32	GOM_NL__2PRFIN20041114_232132_000000442032_00087_14169_6205.N1	14-NOV-2004 23:21:32	Bright	44.000	174	52Psi UMa	3.0040	4400.0	88	14169	No
33	GOM_NL__2PRFIN20041114_232317_000000372032_00087_14169_6206.N1	14-NOV-2004 23:23:17	Bright	36.500	152	12Alp2CVn	2.8900	11000.	73	14169	No
34	GOM_NL__2PRFIN20041114_232754_000000352032_00087_14169_6207.N1	14-NOV-2004 23:27:54	Bright	35.000	3	16Alp Boo	-0.050000	4250.0	70	14169	No
35	GOM_NL__2PRFIN20041114_233005_000000492032_00087_14169_6208.N1	14-NOV-2004 23:30:05	Bright	48.500	96	68Del Leo	2.5600	9300.0	97	14169	No
36	GOM_NL__2PRFIN20041114_233147_000000932032_00087_14169_6209.N1	14-NOV-2004 23:31:47	Twilight	92.500	166	17Eps Leo	2.9800	6000.0	185	14169	No
37	GOM_NL__2PRFIN20041114_233449_000000472032_00087_14169_6210.N1	14-NOV-2004 23:34:49	Bright	47.000	121	29Gam Vir	2.7400	7200.0	94	14169	No
38	GOM_NL__2PRFIN20041114_233635_000000892032_00087_14169_6211.N1	14-NOV-2004 23:36:35	Twilight	88.500	22	32Alp Leo	1.3600	15200.	177	14169	No
39	GOM_NL__2PRFIN20041114_233951_000000442032_00087_14169_6212.N1	14-NOV-2004 23:39:51	Twilight	44.000	100	4Gam Crv	2.5800	13100.	88	14169	No
40	GOM_NL__2PRFIN20041114_234122_000000462032_00087_14169_6213.N1	14-NOV-2004 23:41:22	Twilight	45.500	171	2Eps Crv	3.0010	4250.0	91	14169	No
41	GOM_NL__2PRFIN20041114_234738_000000422032_00087_14169_6214.N1	14-NOV-2004 23:47:38	Dark	42.000	64	Gam Cen	2.2000	10600.	84	14169	No
42	GOM_NL__2PRFIN20041114_234955_000000522032_00087_14169_6215.N1	14-NOV-2004 23:49:55	Dark	52.000	26	Gam Cru	1.6240	2900.0	104	14169	No

43	GOM_NL__2PRFIN20041114_235448_000000422032_00088_14170_6179.N1	14-NOV-2004 23:54:48	Dark	42.000	91	Kap Vel	2.4900	26000.	84	14170	No
44	GOM_NL__2PRFIN20041114_235727_000000442032_00088_14170_6180.N1	14-NOV-2004 23:57:27	Dark	44.000	41	Eps Car	1.8600	4100.0	88	14170	No

3. Quality information per product

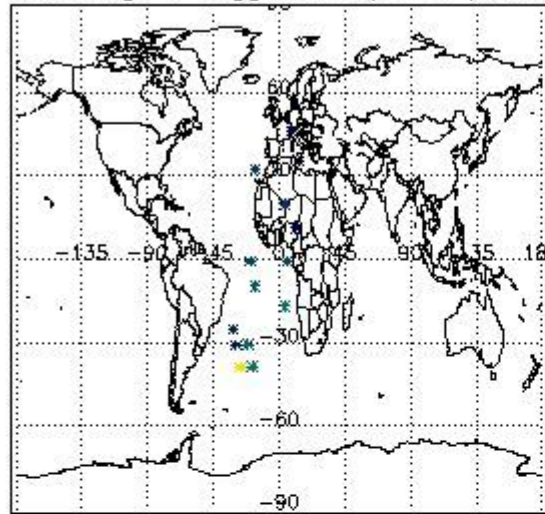
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

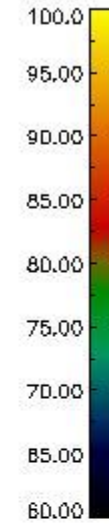
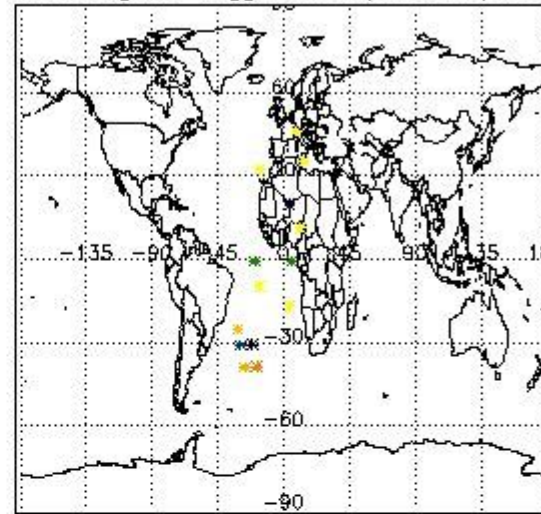


3.2 Plot quality information per product (world map)

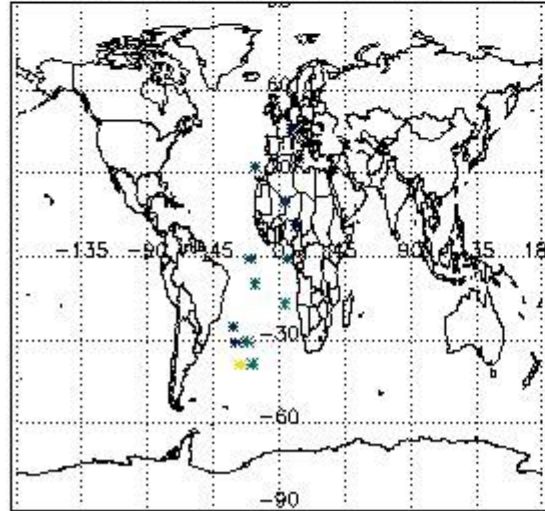
Percentage of flagged data per O3 profile



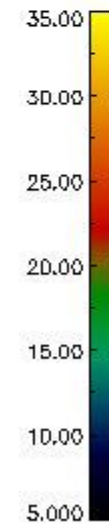
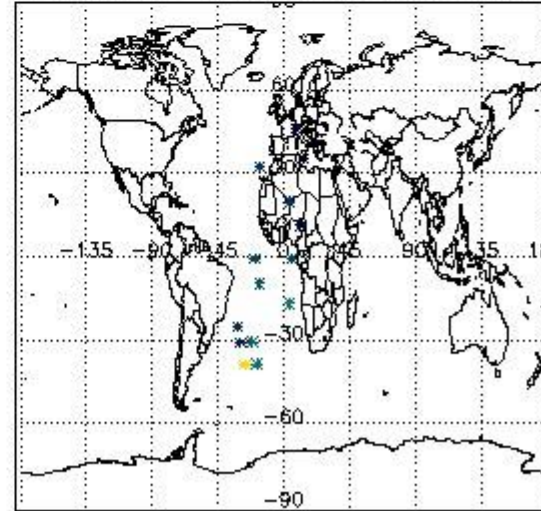
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

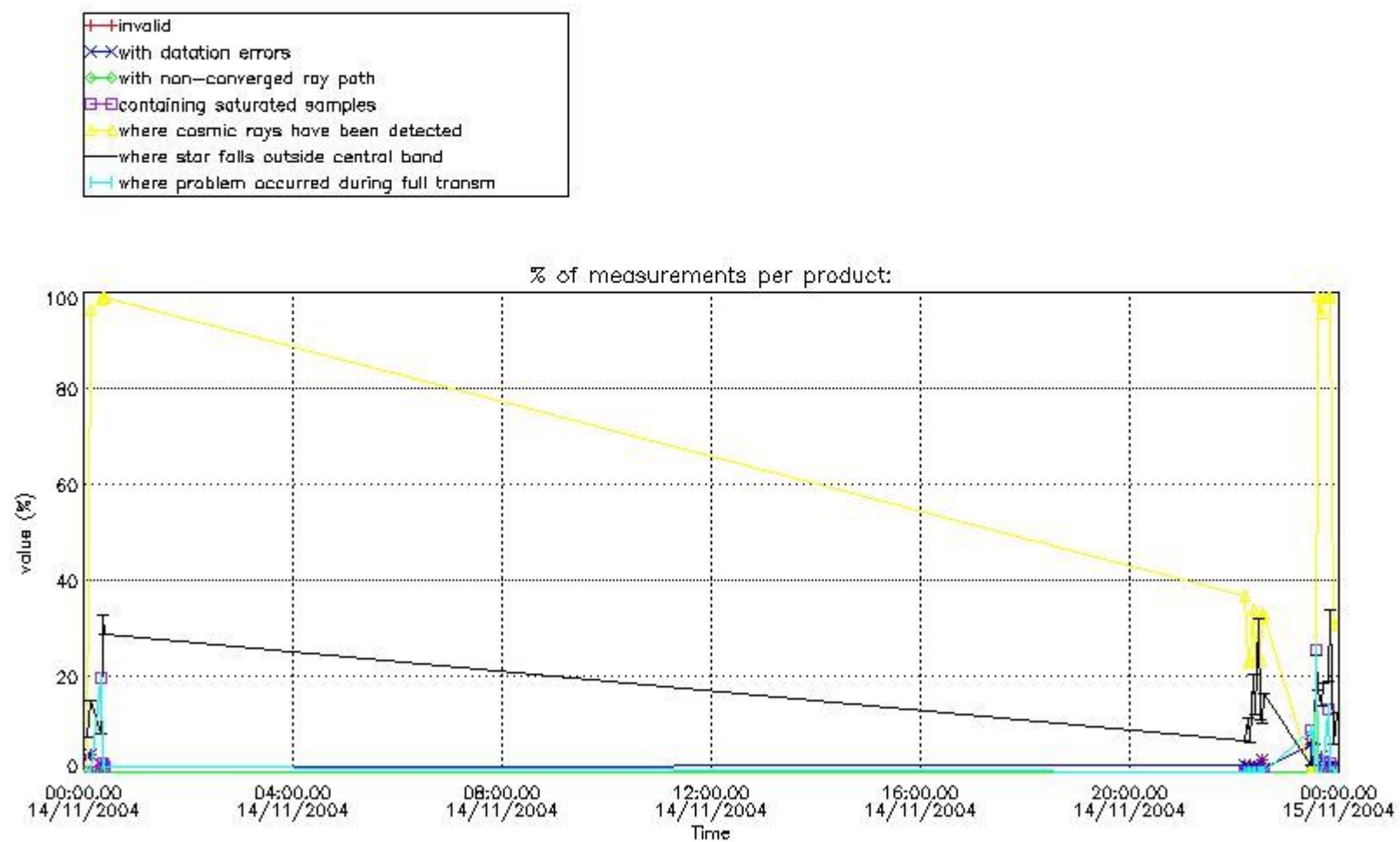


4. Level 1 quality information per product

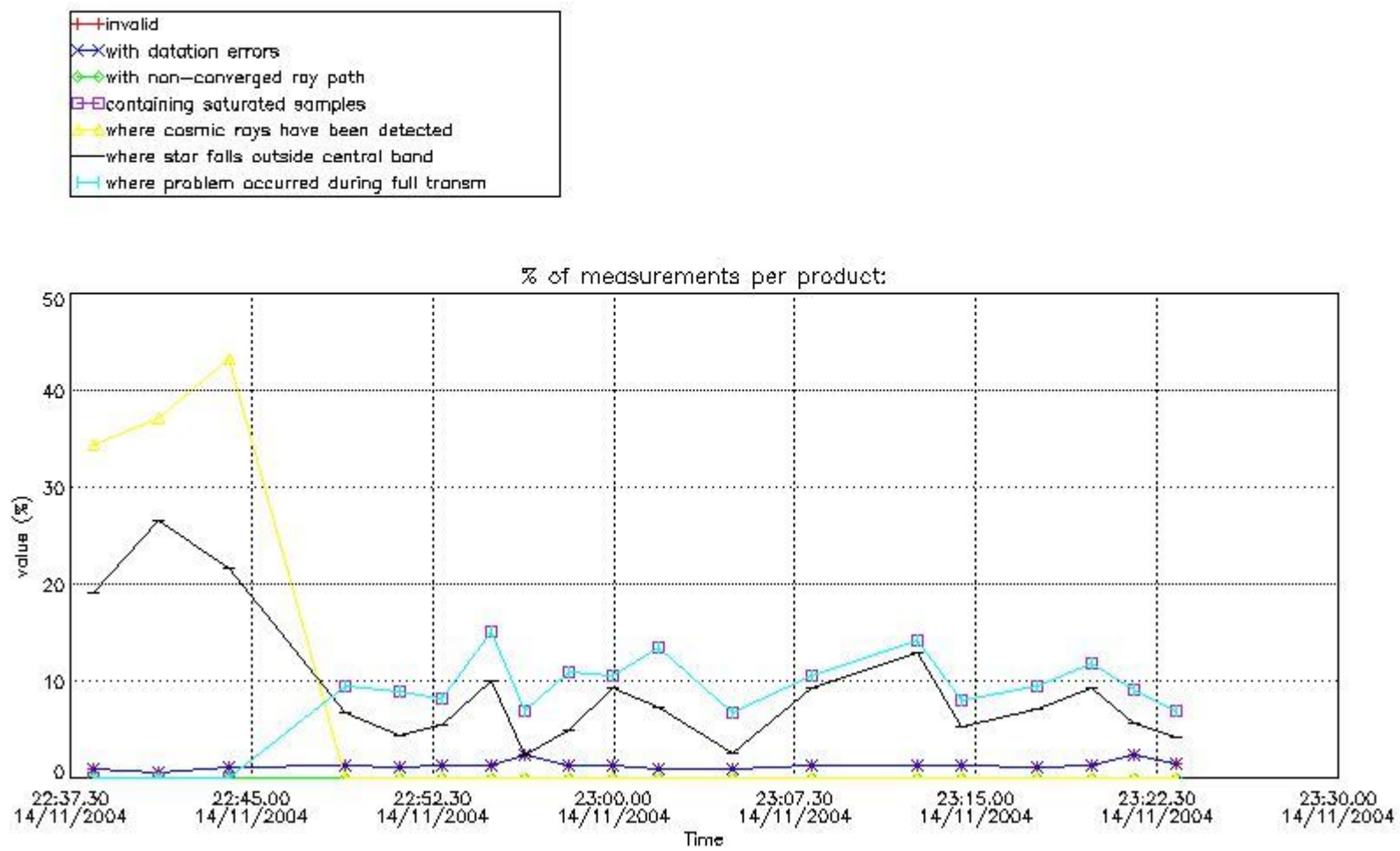
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



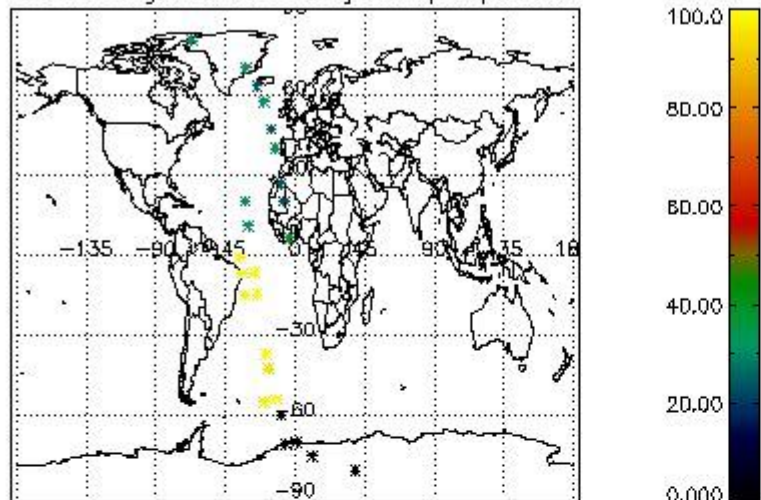
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



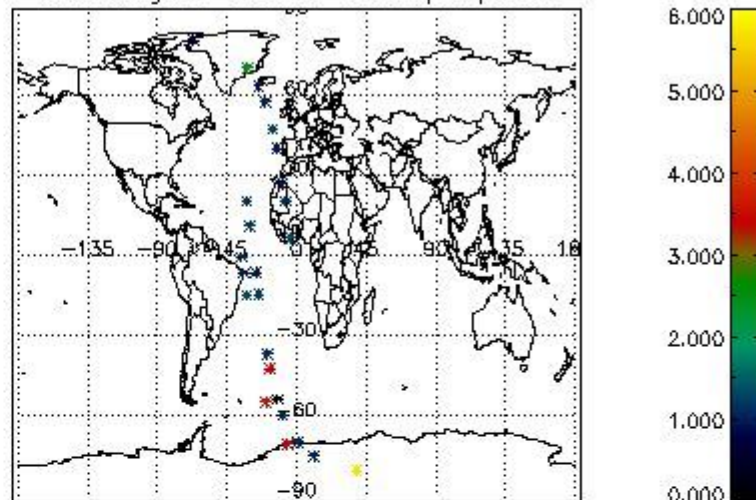
4.2 Plot quality information per product coming from level 1b processing (world map)

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

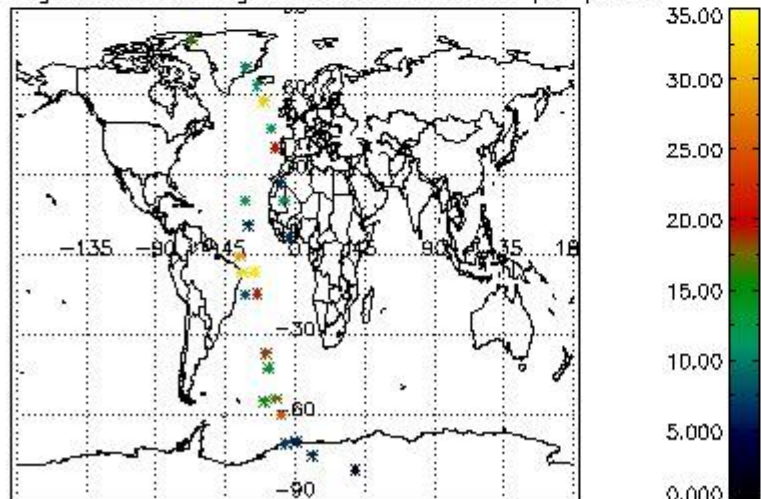
Percentage of cosmic ray hits per profile



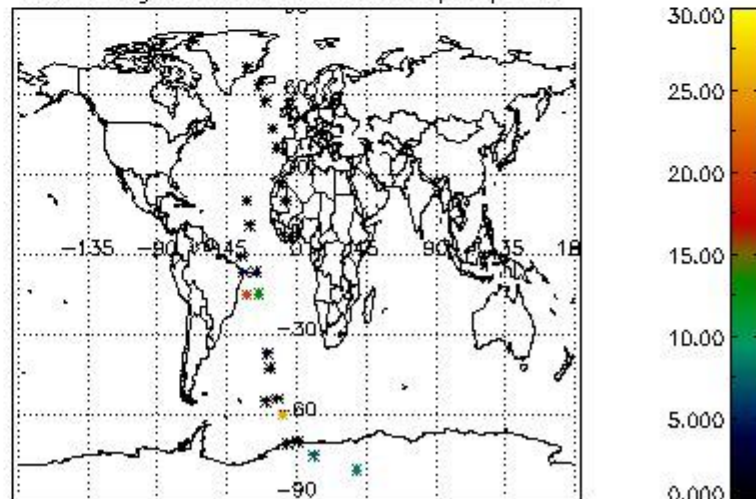
Percentage of datation errors per profile



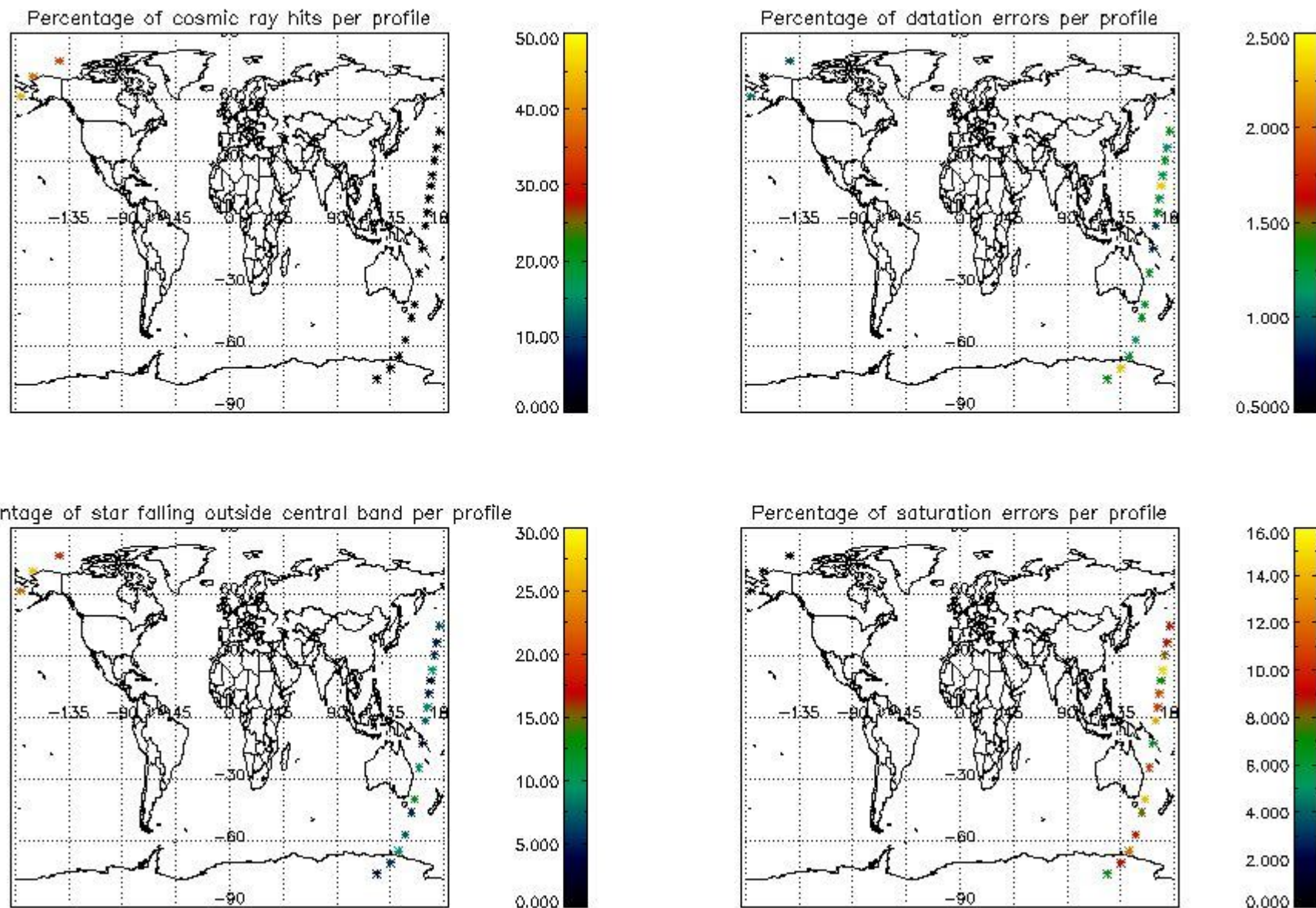
Percentage of star falling outside central band per profile



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

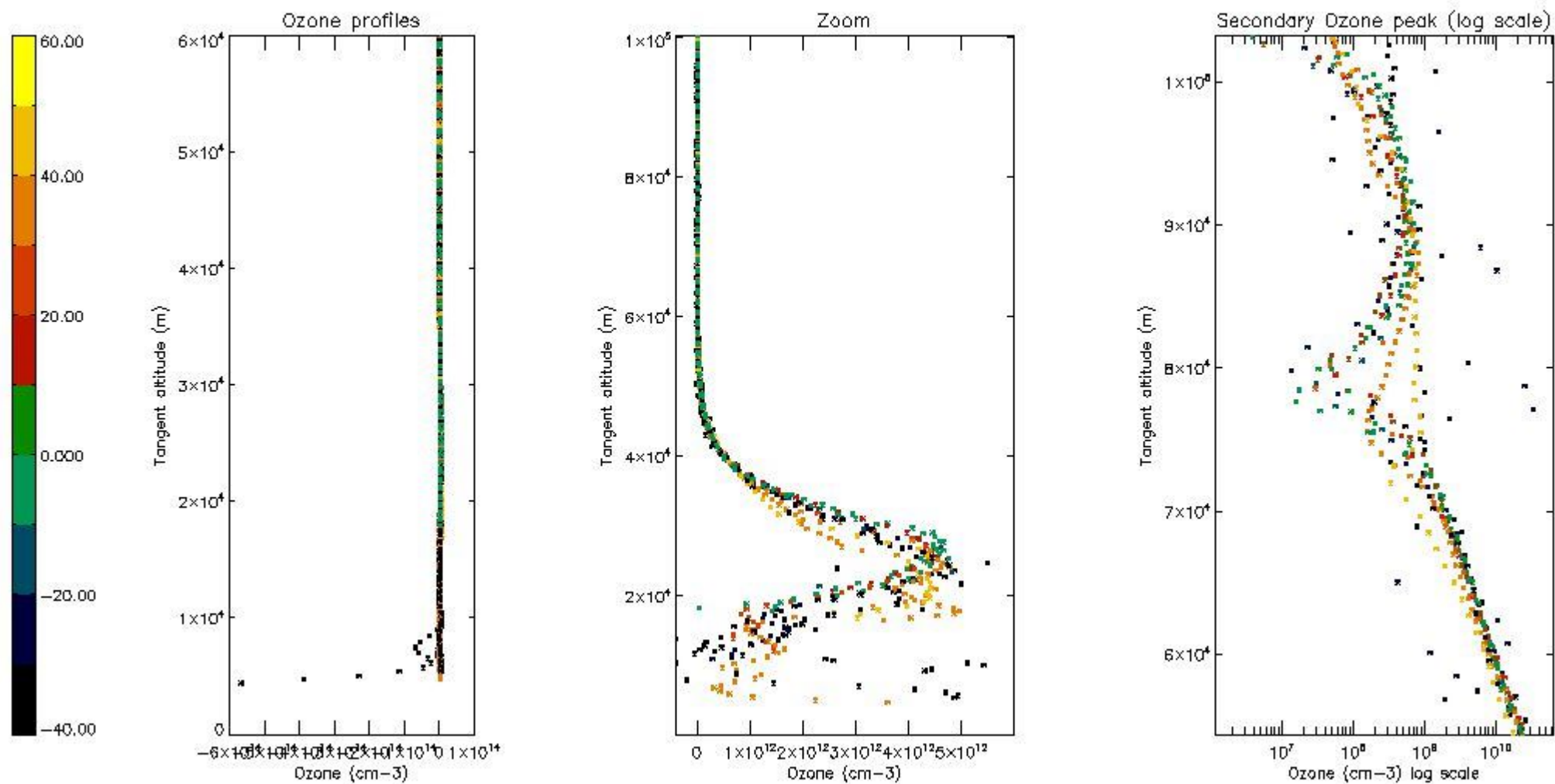
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	31
STD < 20	19

STD < 10	16
STD < 5	12

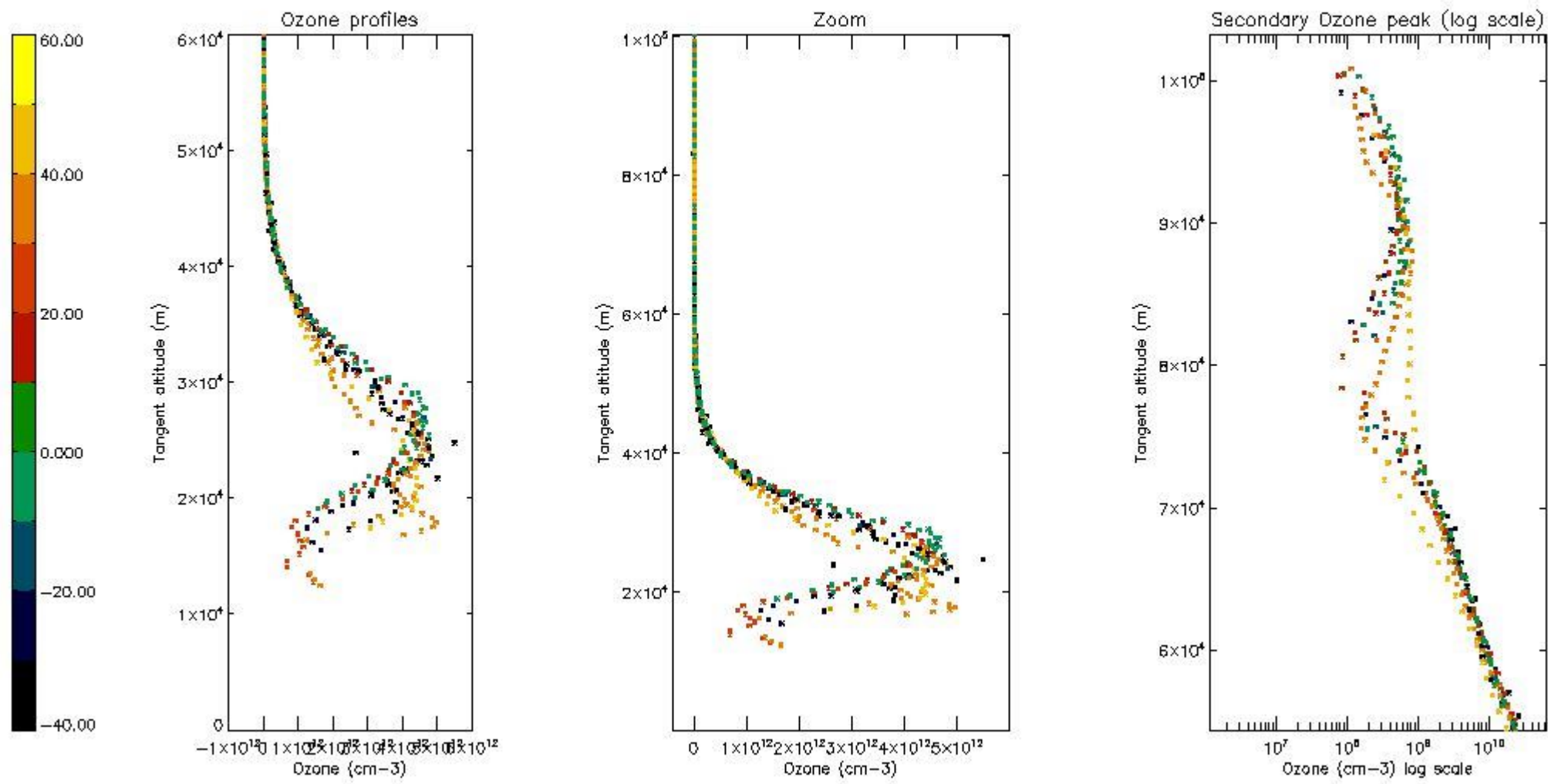
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



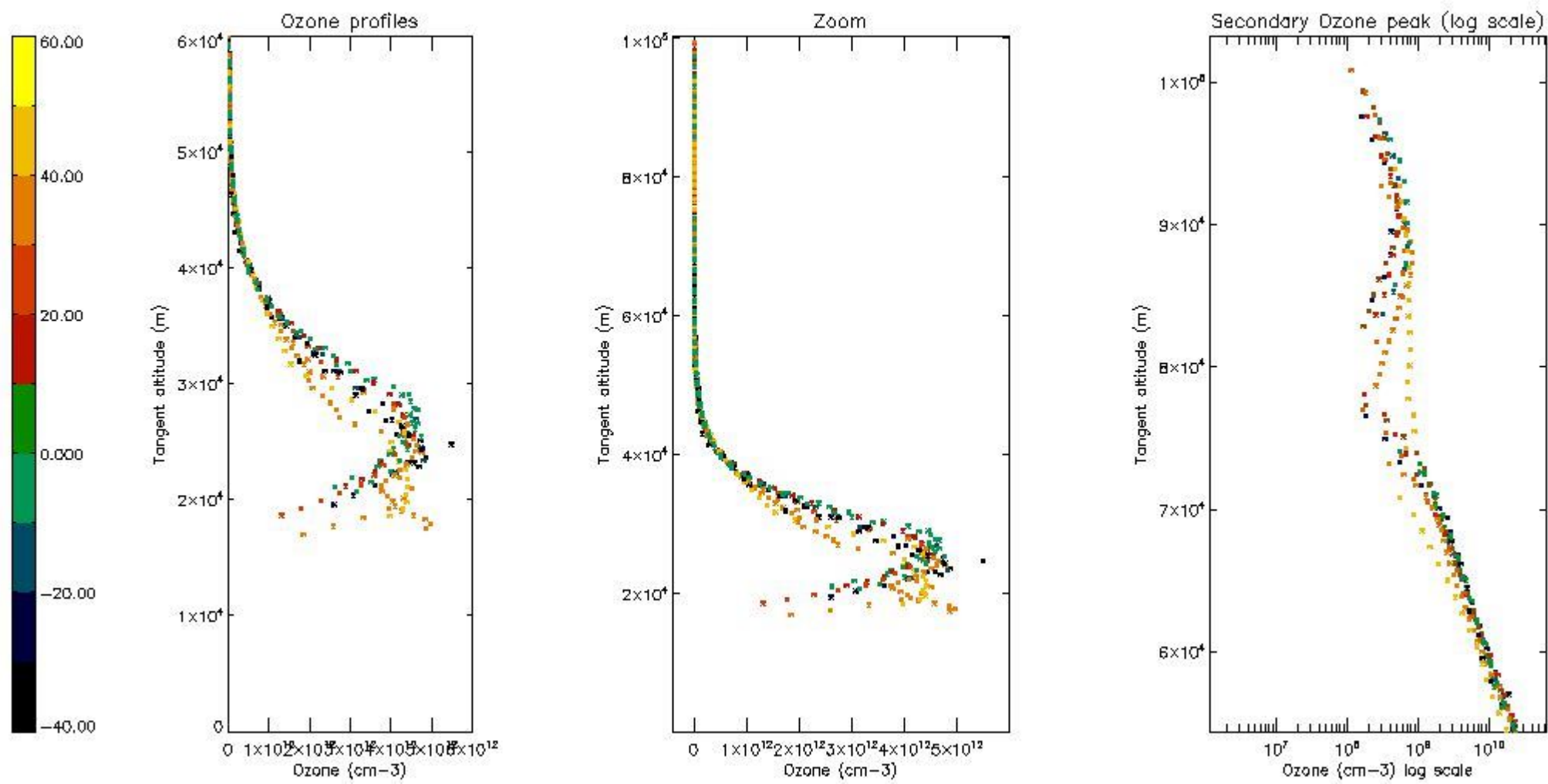
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



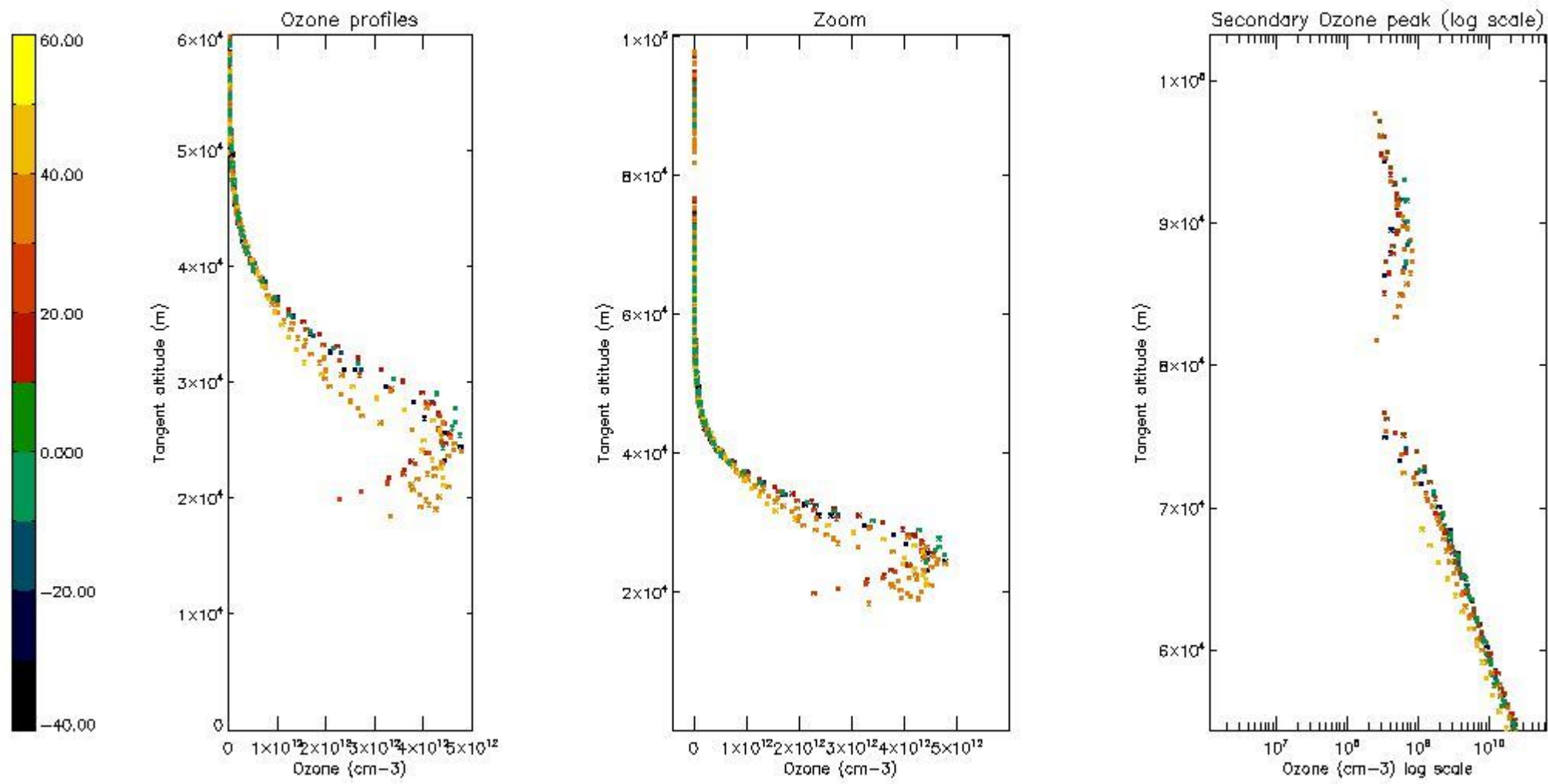
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



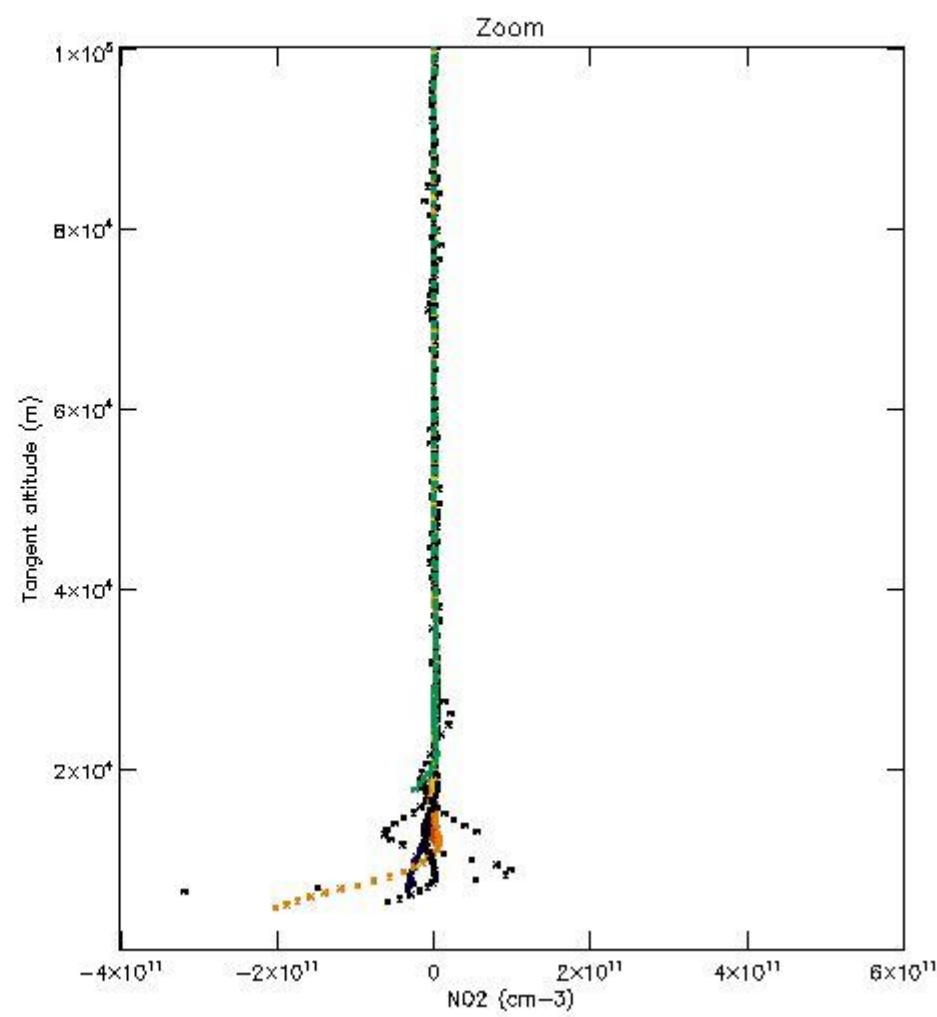
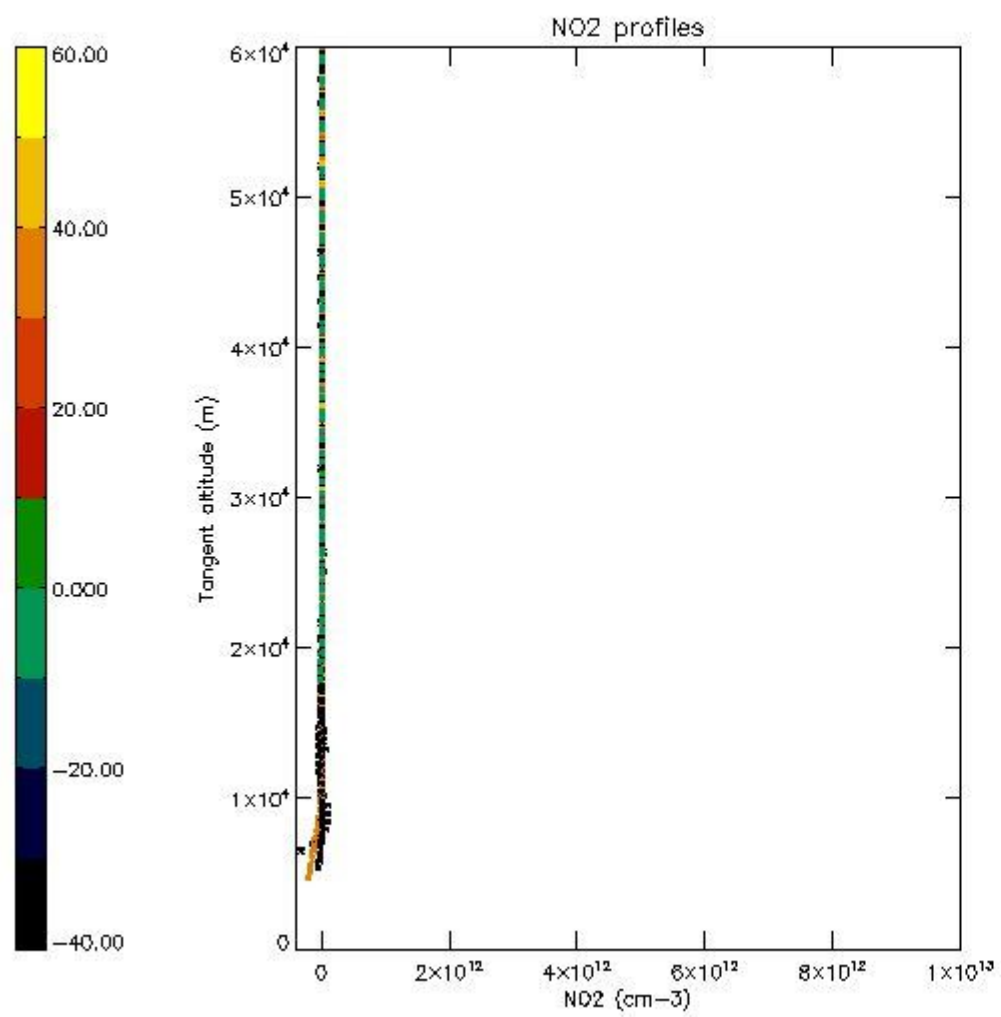
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



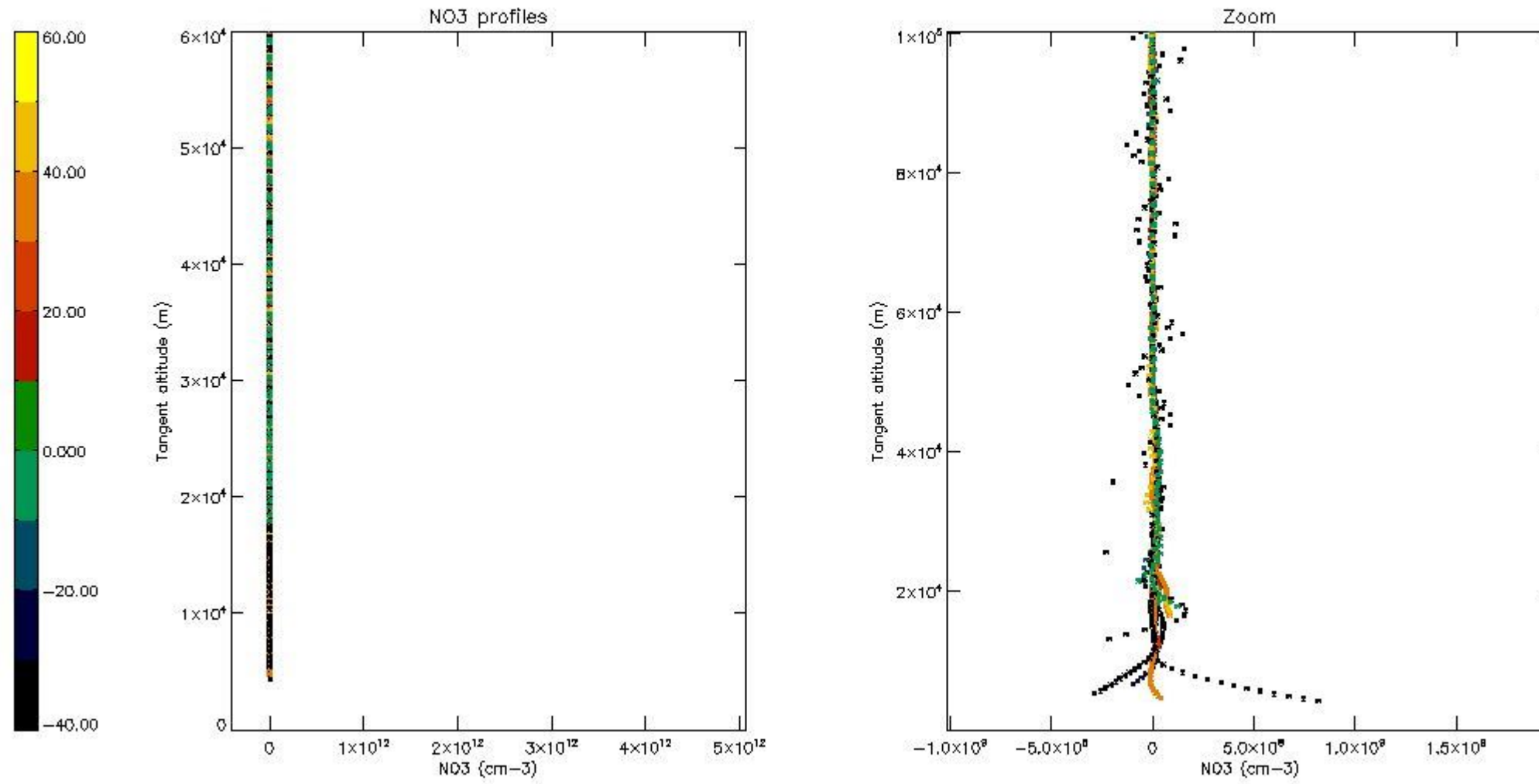
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	14-NOV-2004 00:03:11
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	14-NOV-2004 00:03:11
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	14-NOV-2004 00:03:11

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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](#)

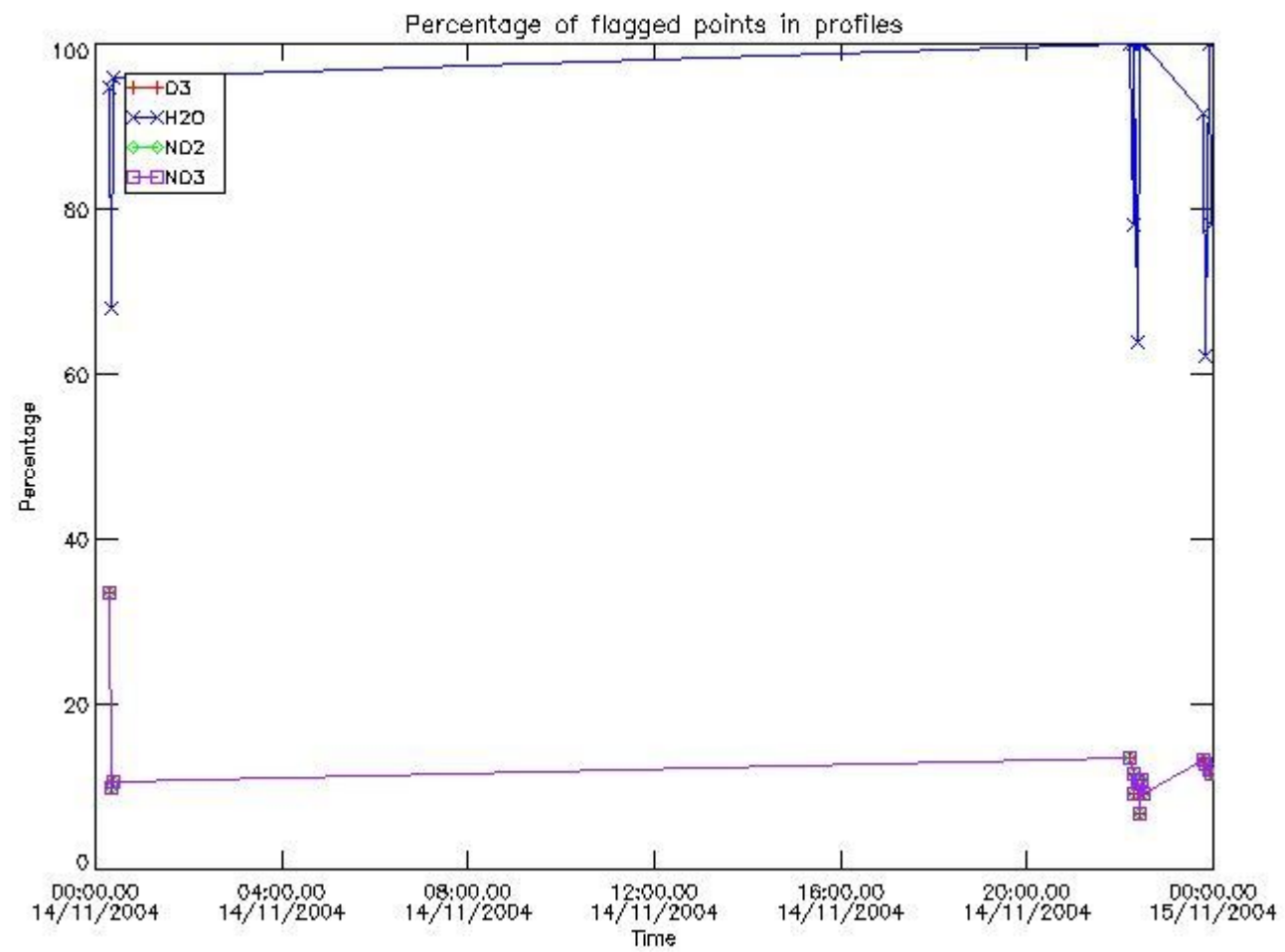
[6. Auxiliary Data Files used for the production reported in section 2](#)

43	GOM_NL__2PRFIN20041114_235448_000000422032_00088_14170_6179.N1	14-NOV-2004 23:54:48	Dark	42.000	91	Kap Vel	2.4900	26000.	84	14170	No
44	GOM_NL__2PRFIN20041114_235727_000000442032_00088_14170_6180.N1	14-NOV-2004 23:57:27	Dark	44.000	41	Eps Car	1.8600	4100.0	88	14170	No

3. Quality information per product

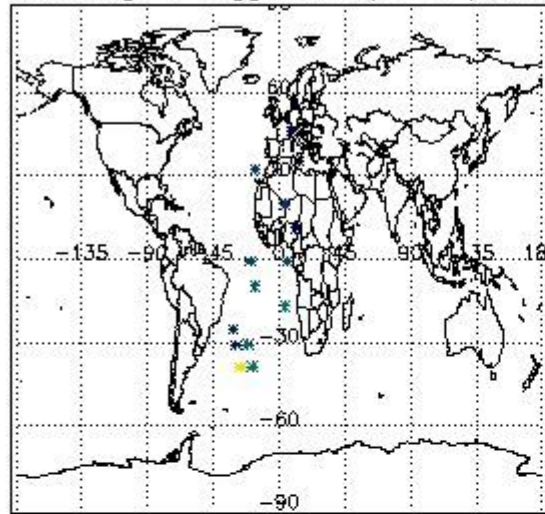
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

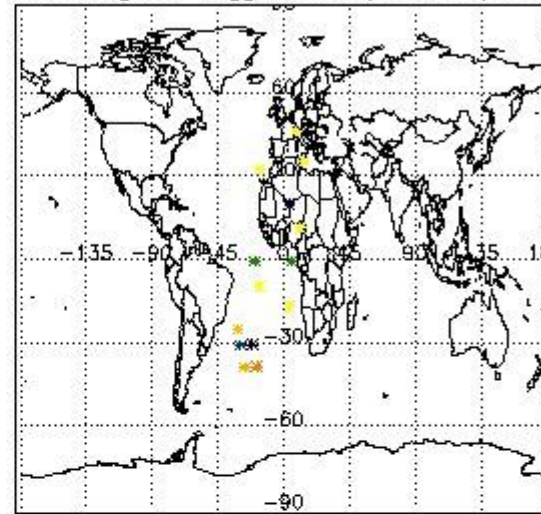


3.2 Plot quality information per product (world map)

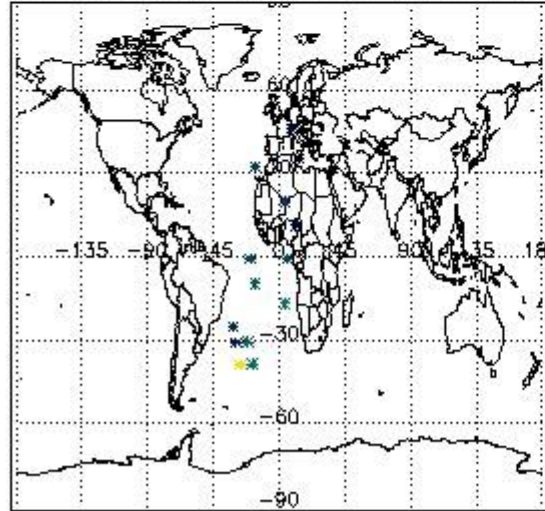
Percentage of flagged data per O3 profile



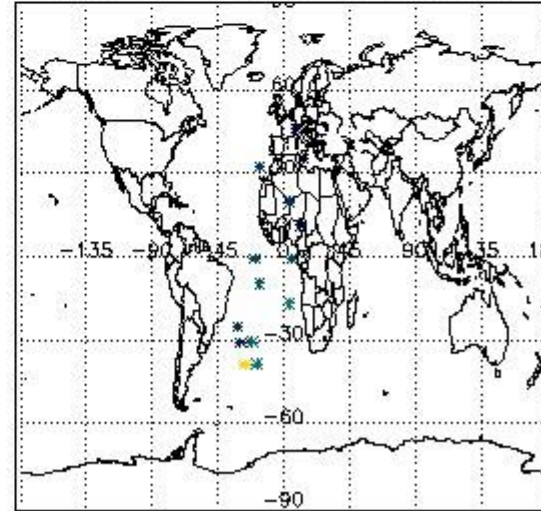
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

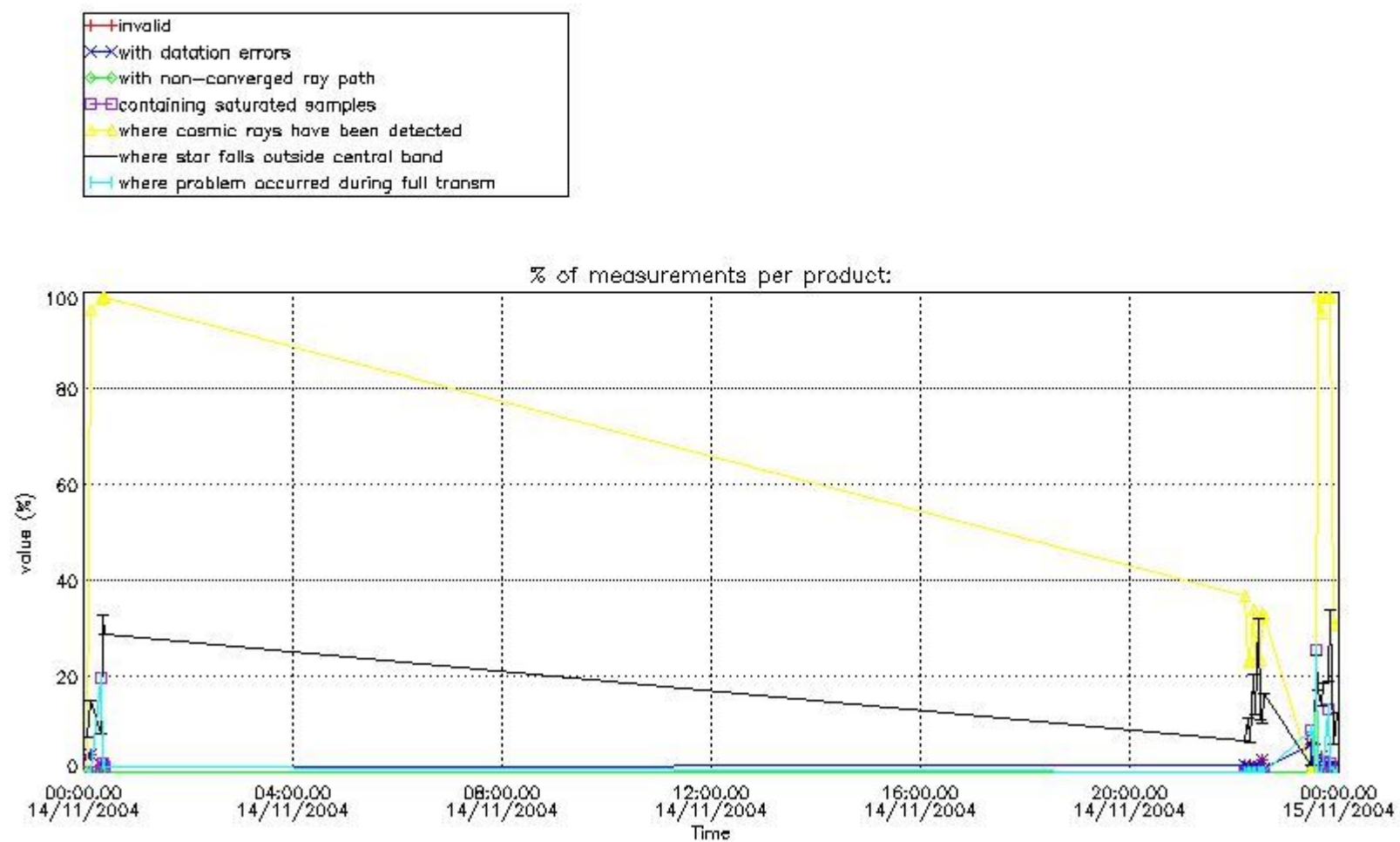


4. Level 1 quality information per product

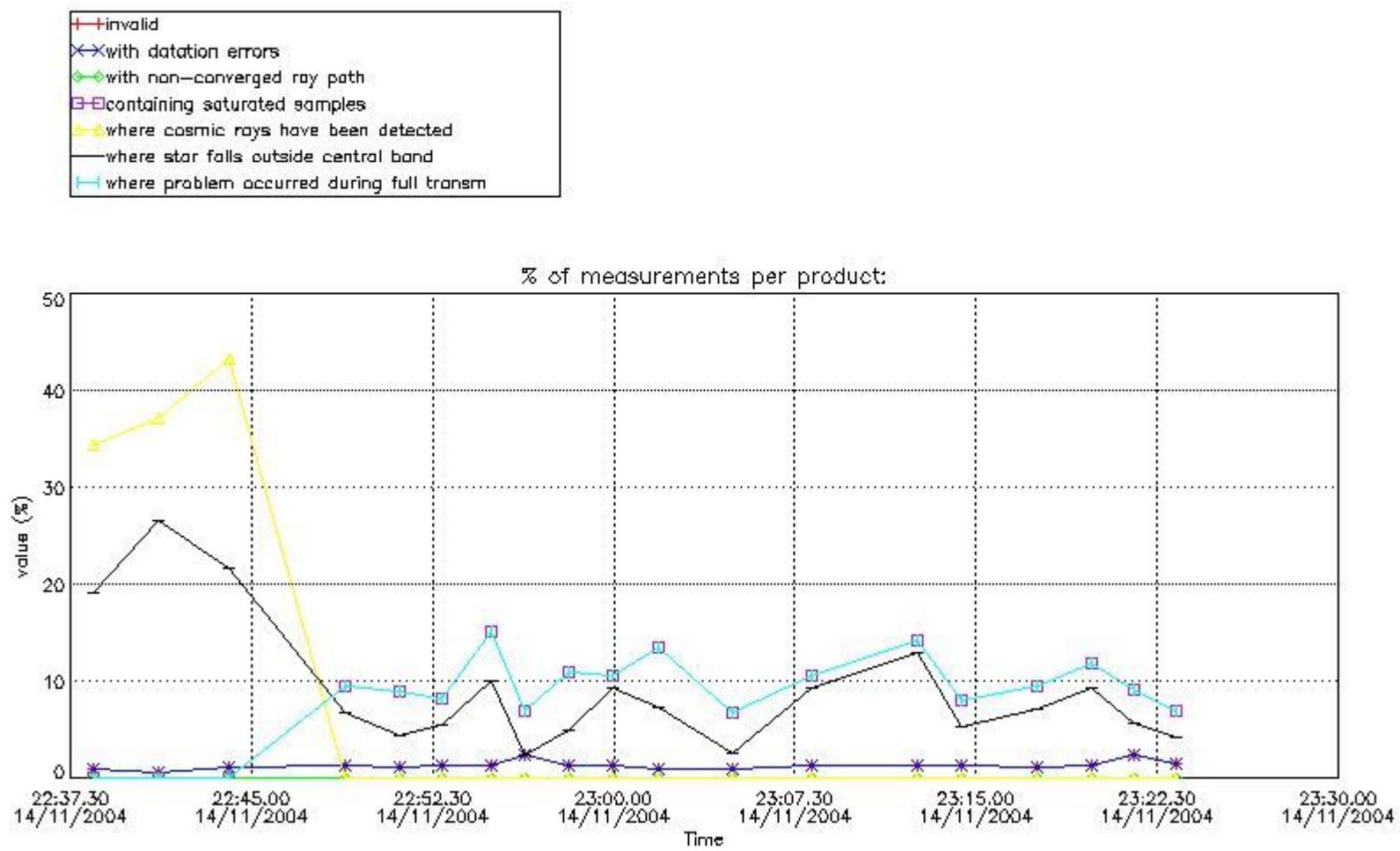
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



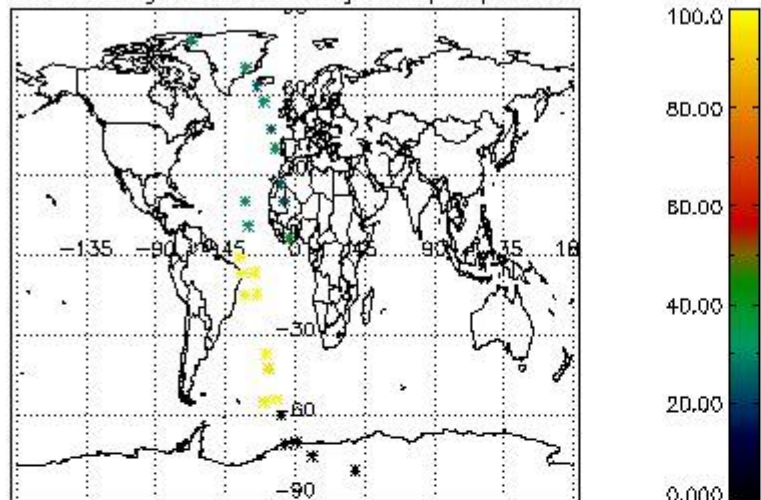
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



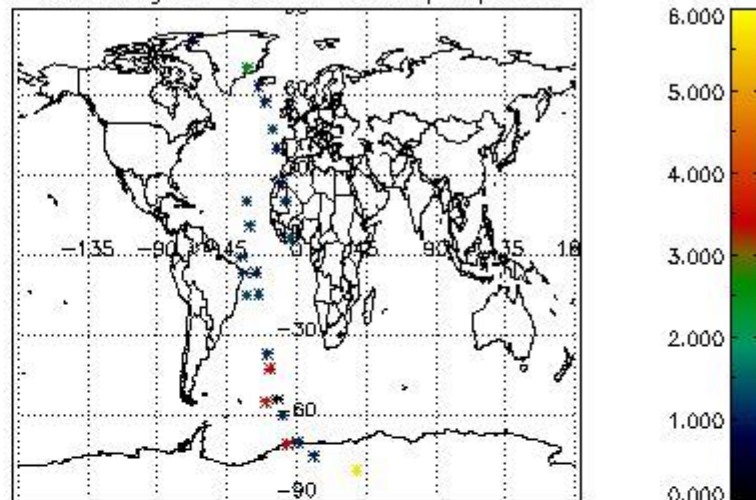
4.2 Plot quality information per product coming from level 1b processing (world map)

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

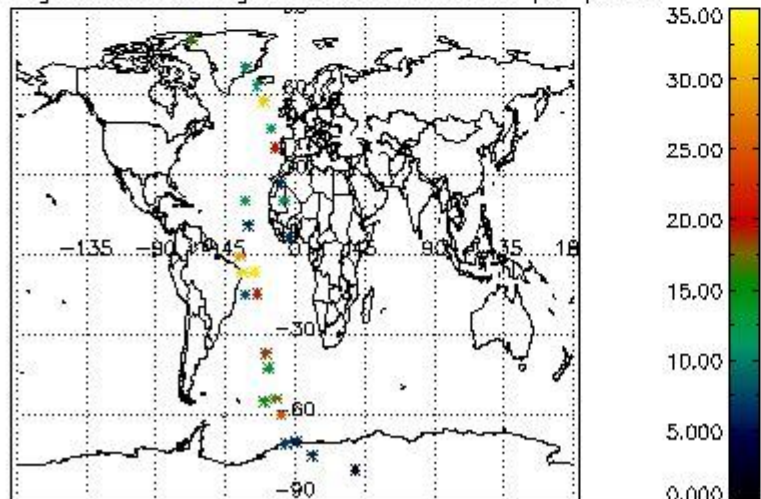
Percentage of cosmic ray hits per profile



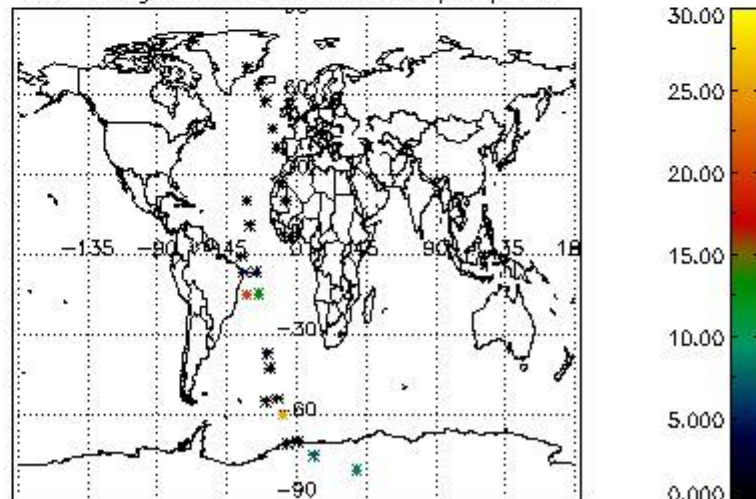
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

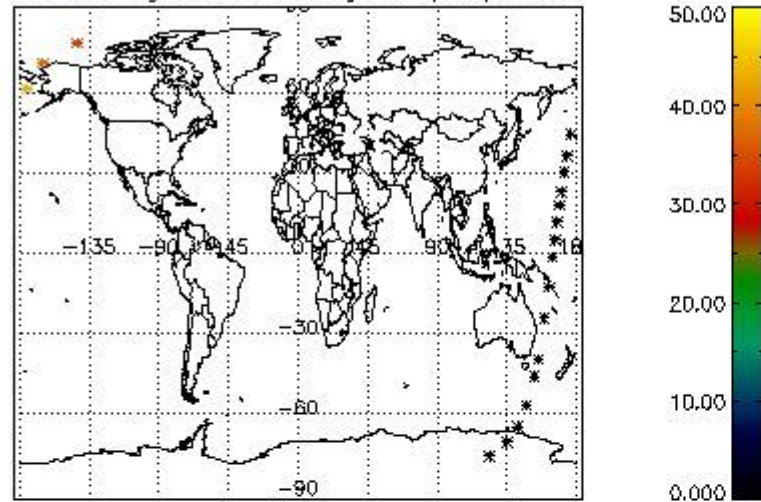


Percentage of saturation errors per profile

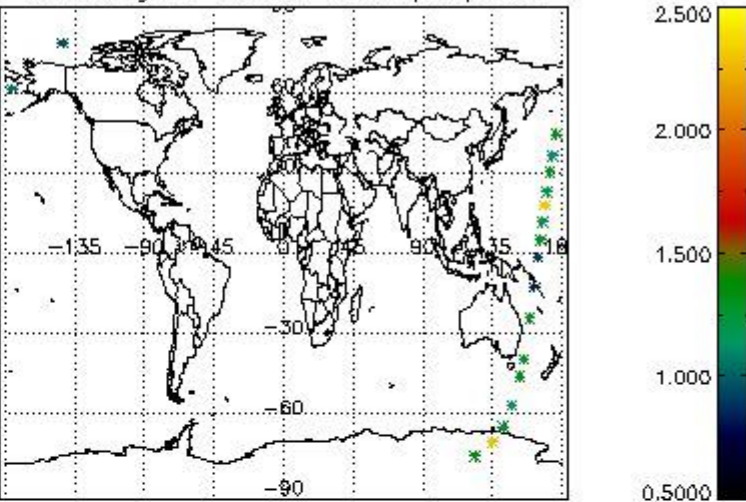


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

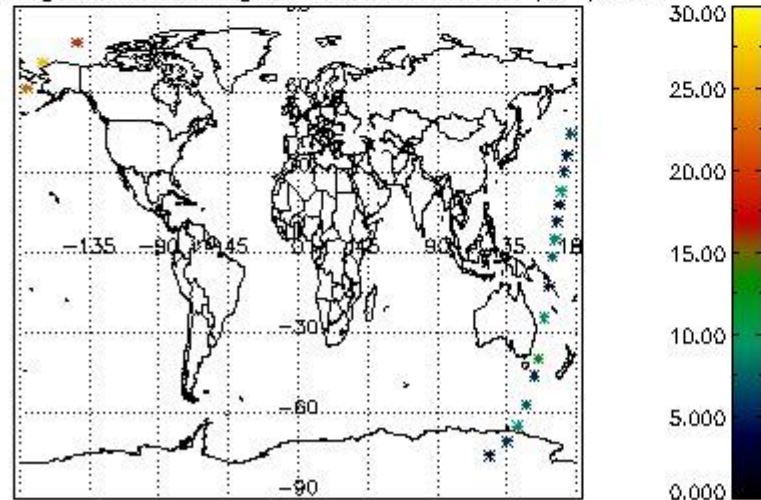
Percentage of cosmic ray hits per profile



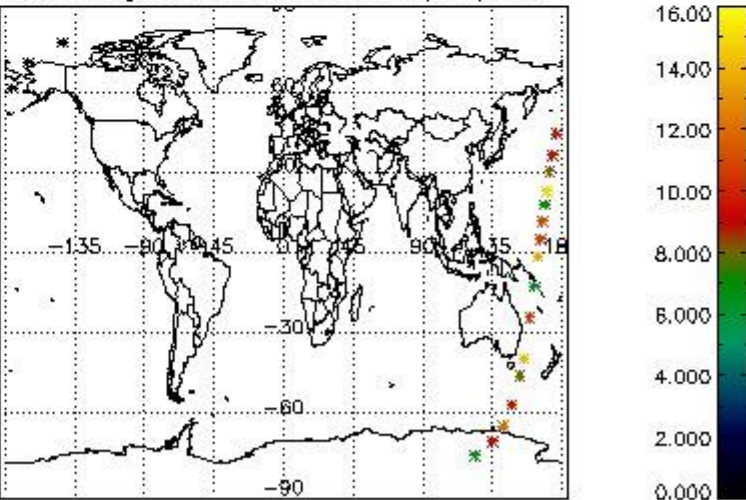
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

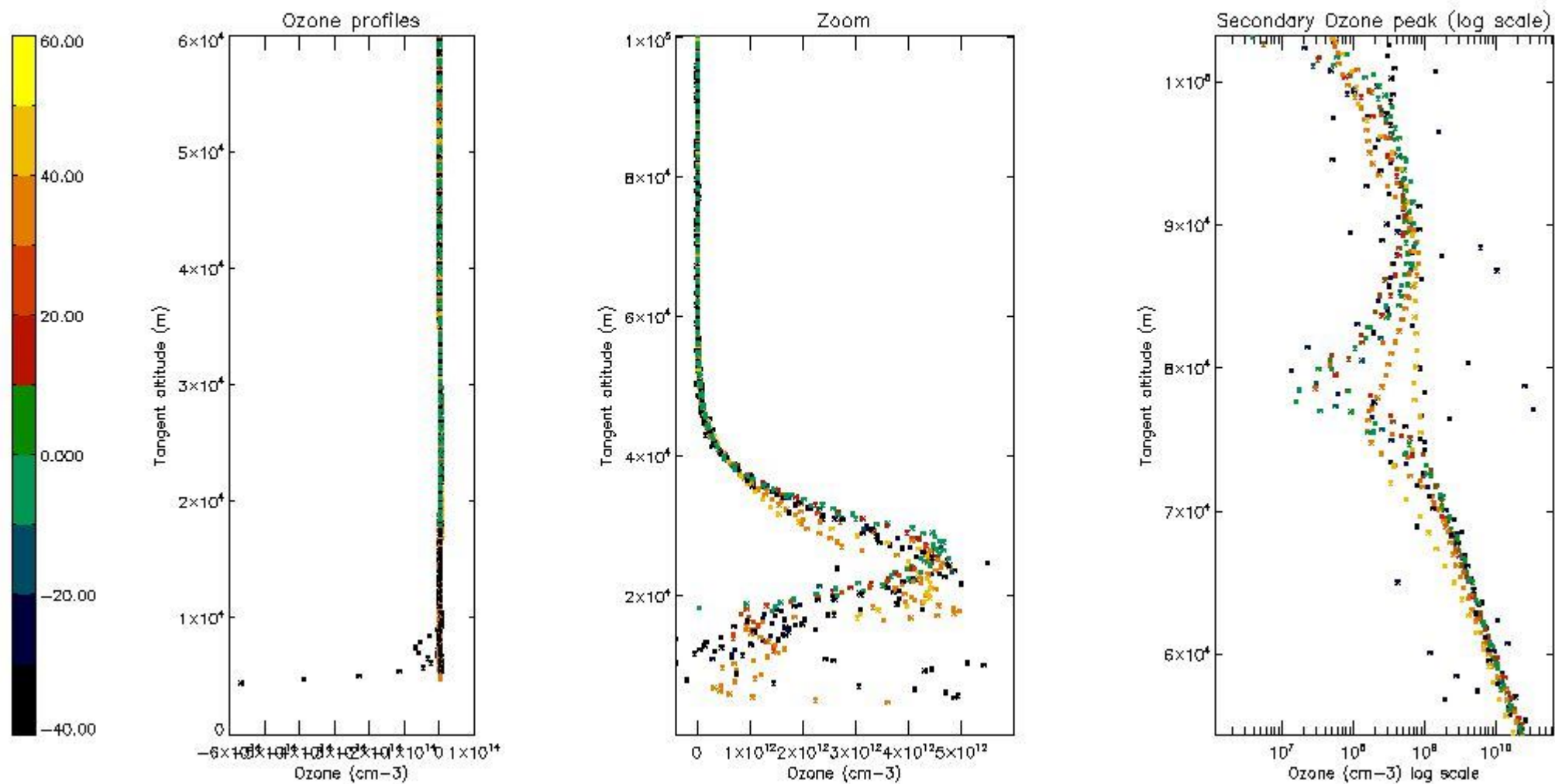
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	31
STD < 20	19

STD < 10	16
STD < 5	12

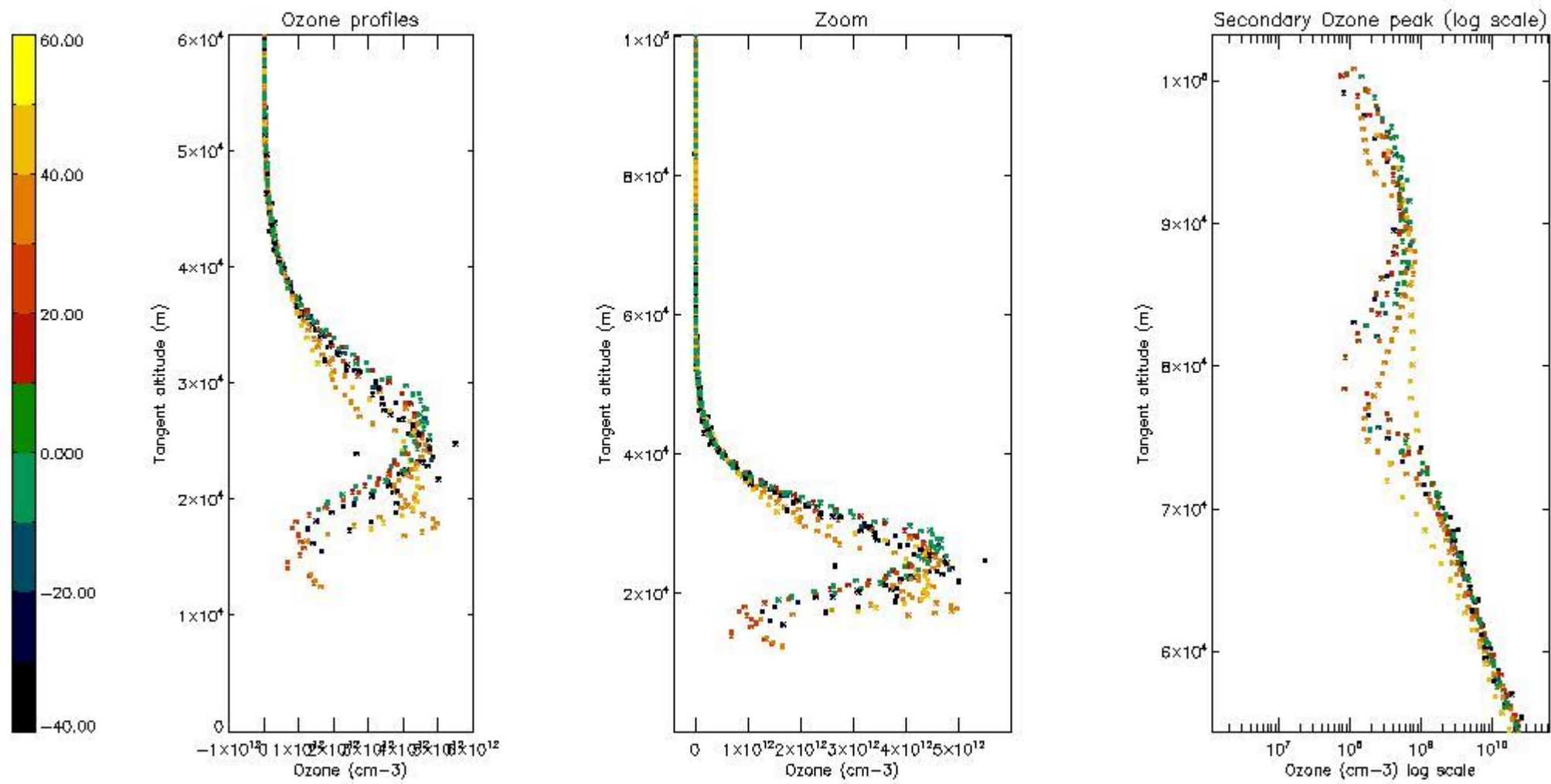
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



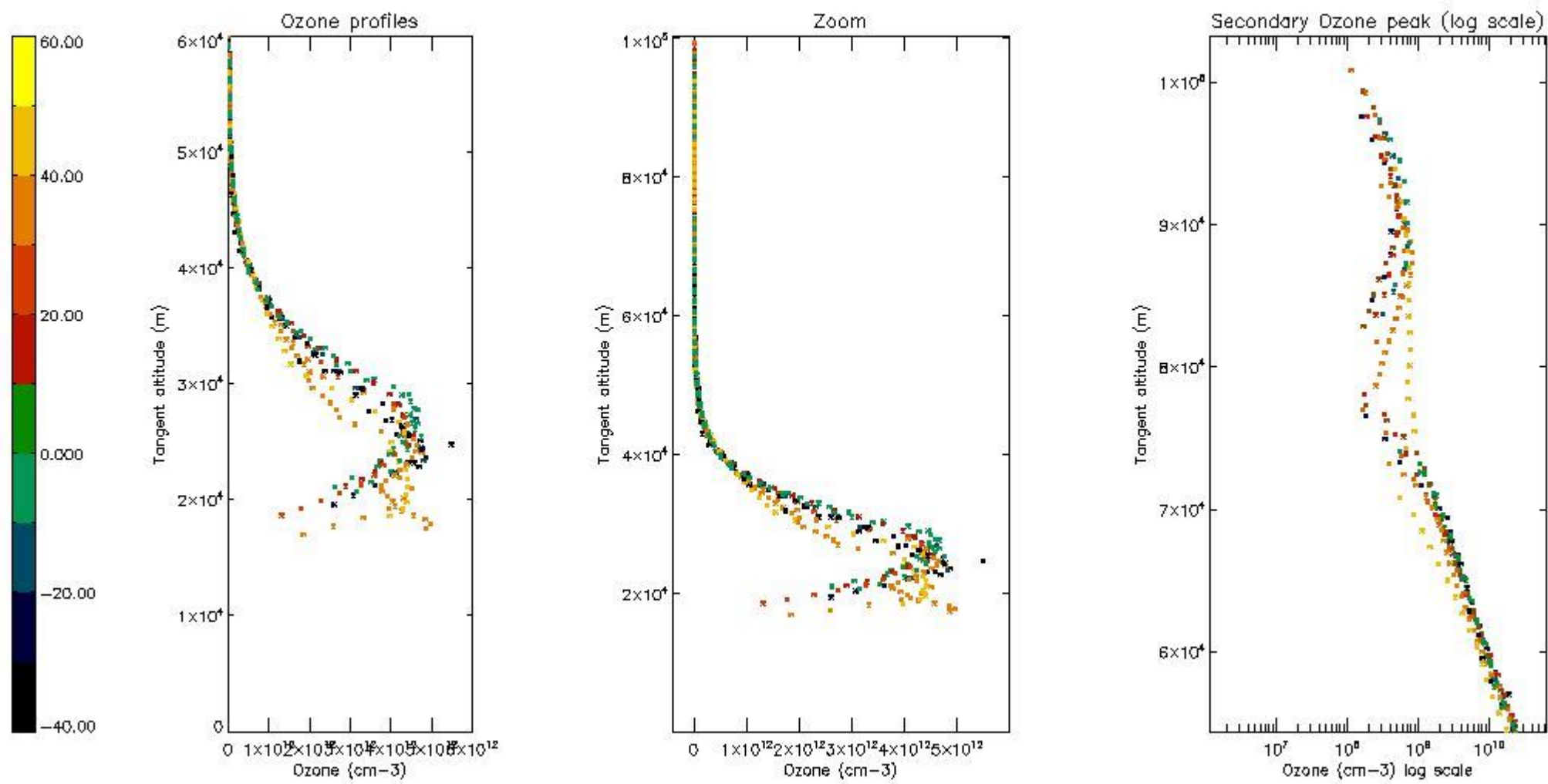
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



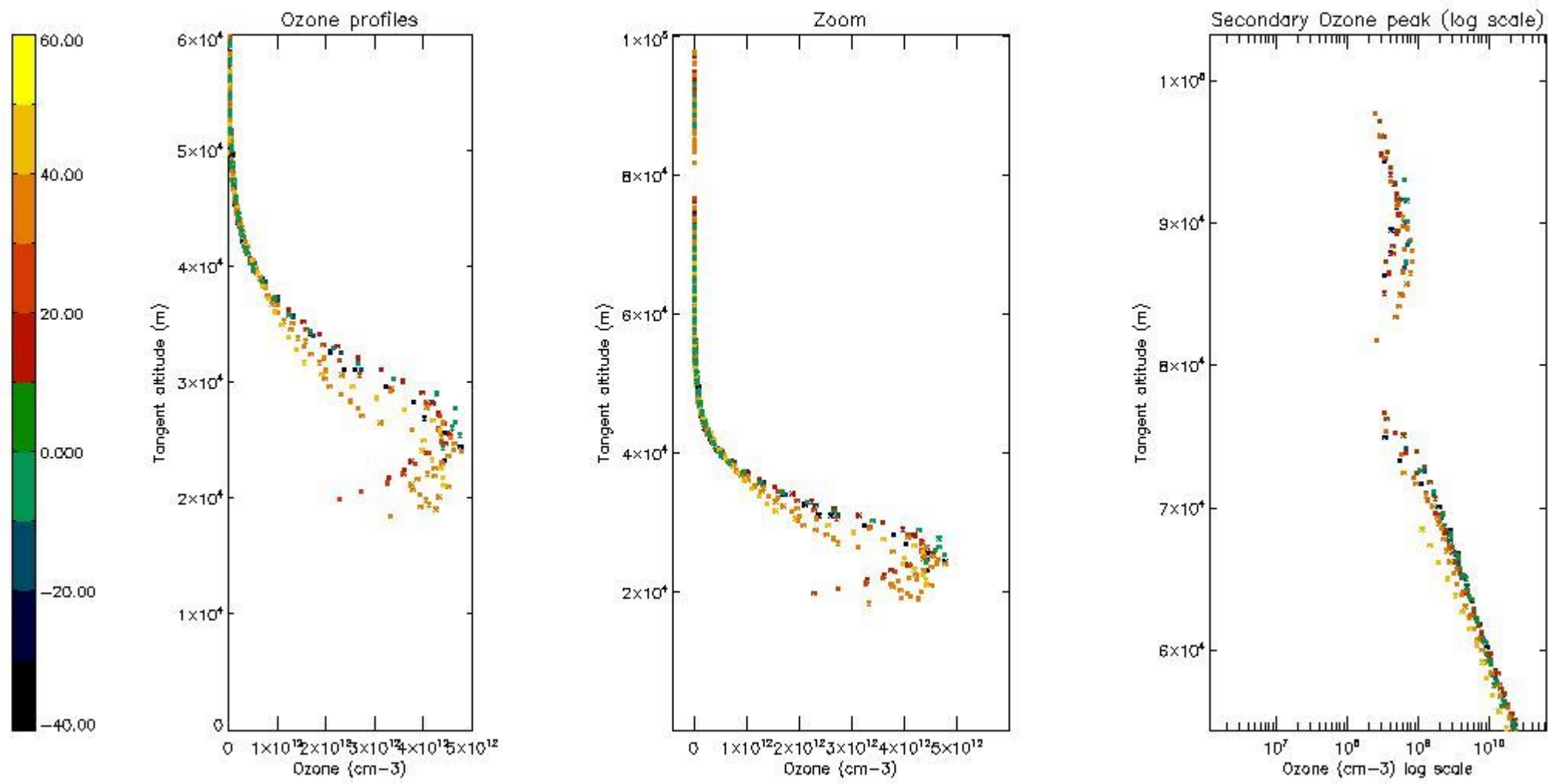
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



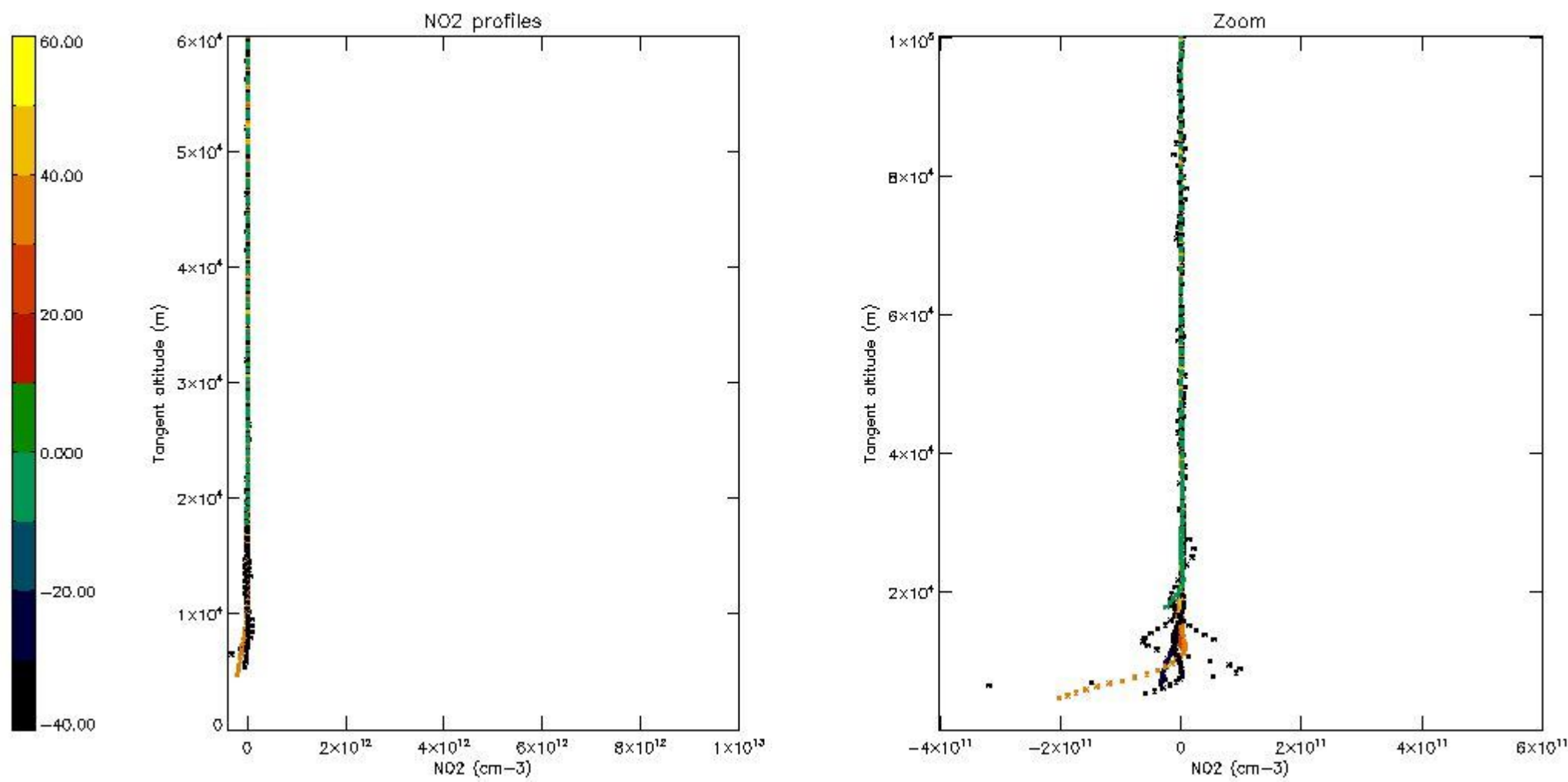
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



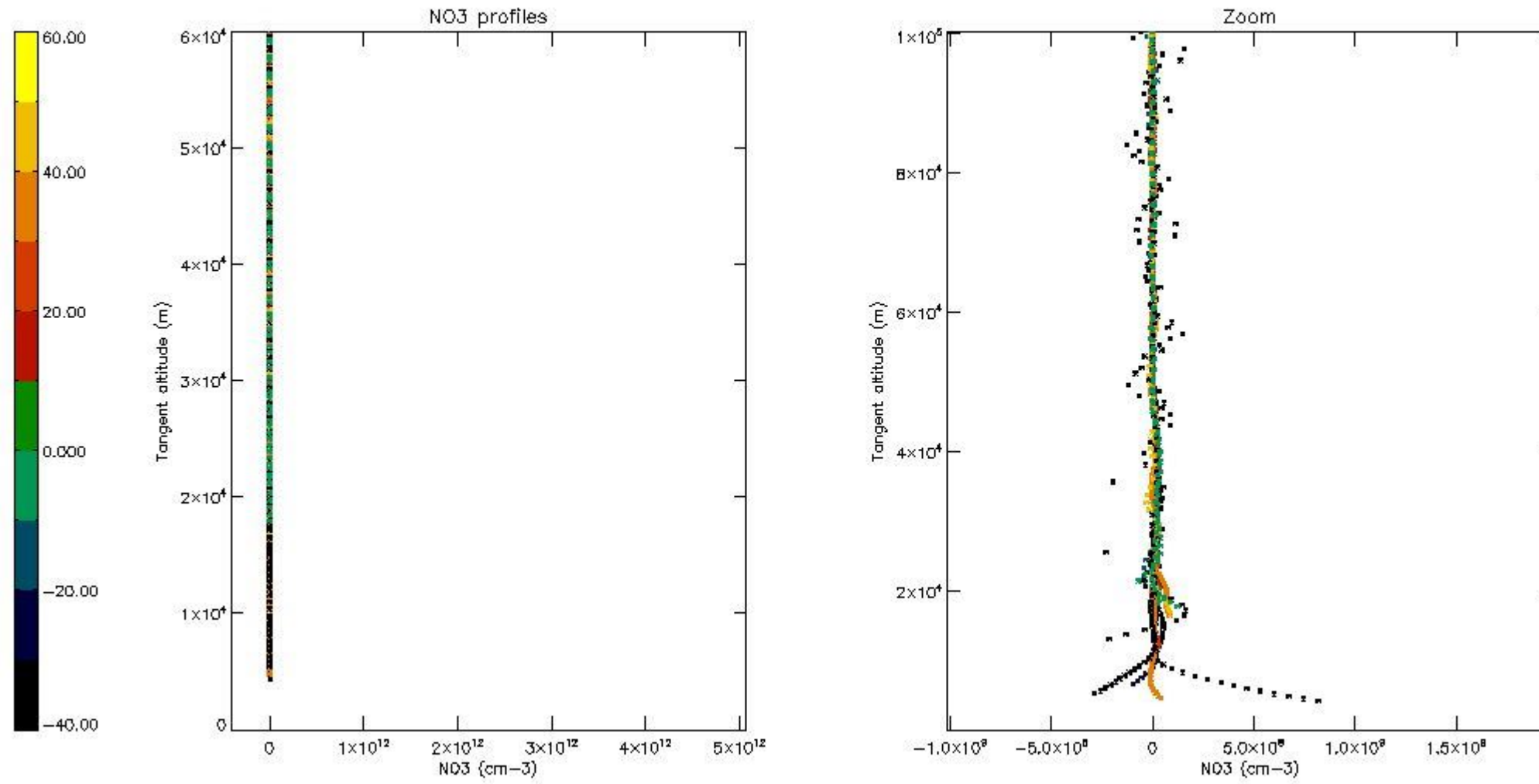
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

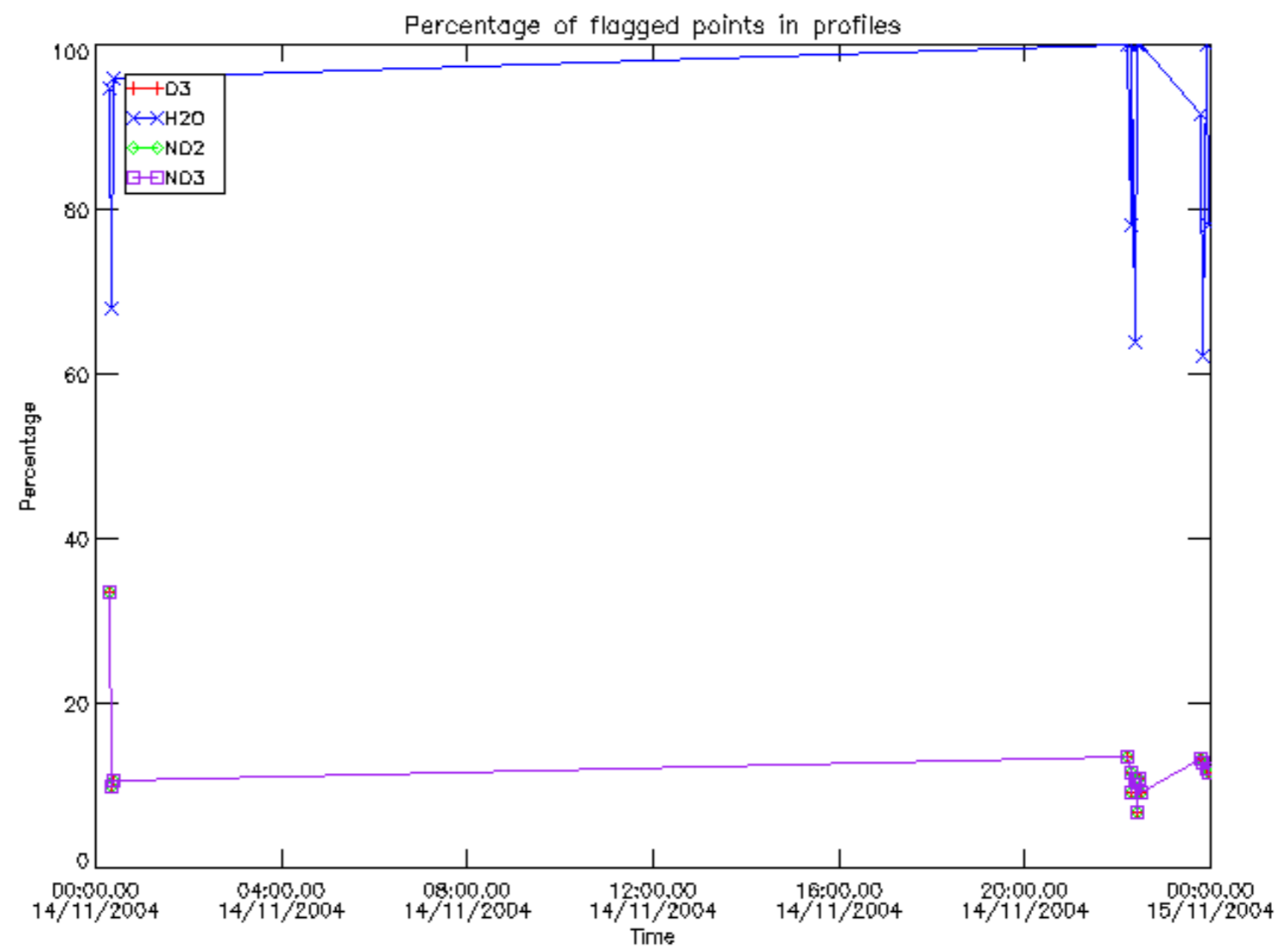
The colorbar represents the latitude.



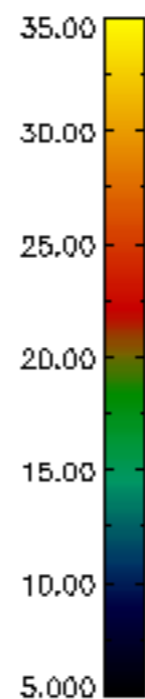
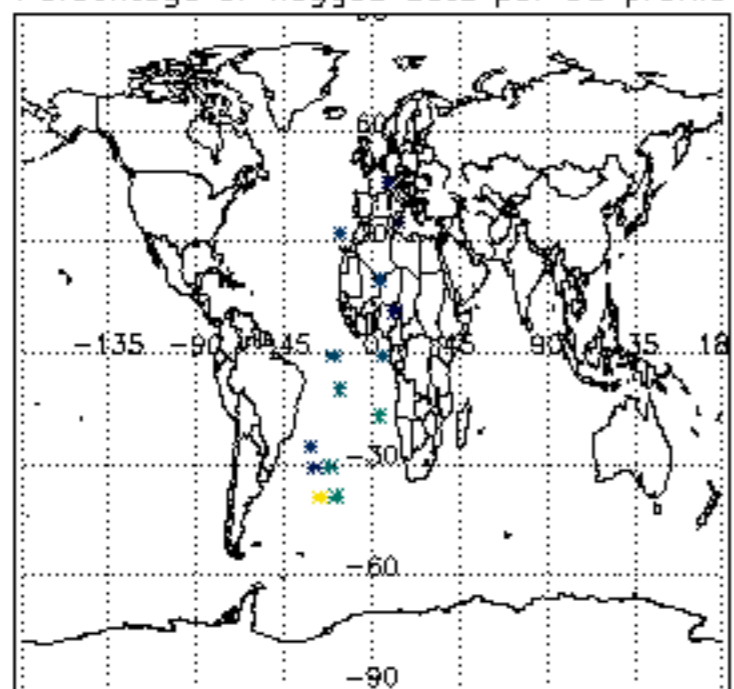
6. Auxiliary Data Files used for the production reported in section 2

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

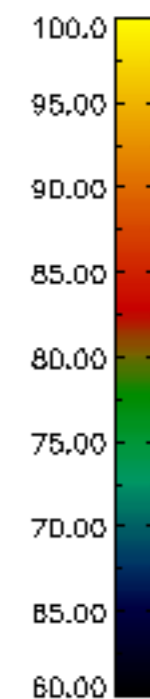
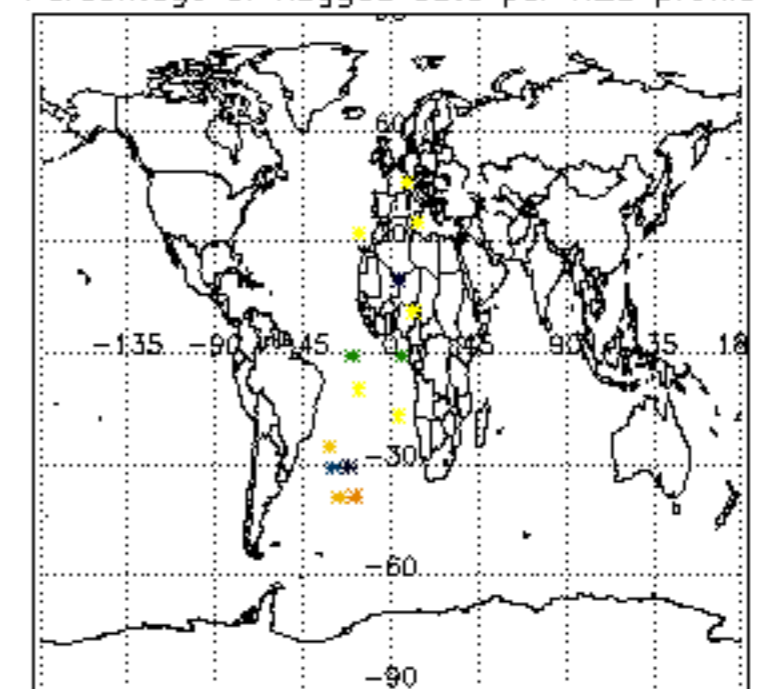
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	14-NOV-2004 00:03:11
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	14-NOV-2004 00:03:11
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	14-NOV-2004 00:03:11



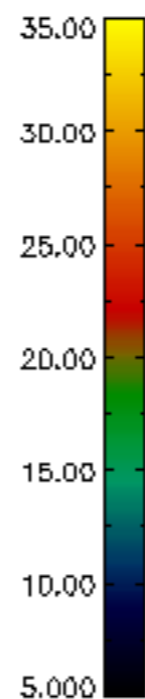
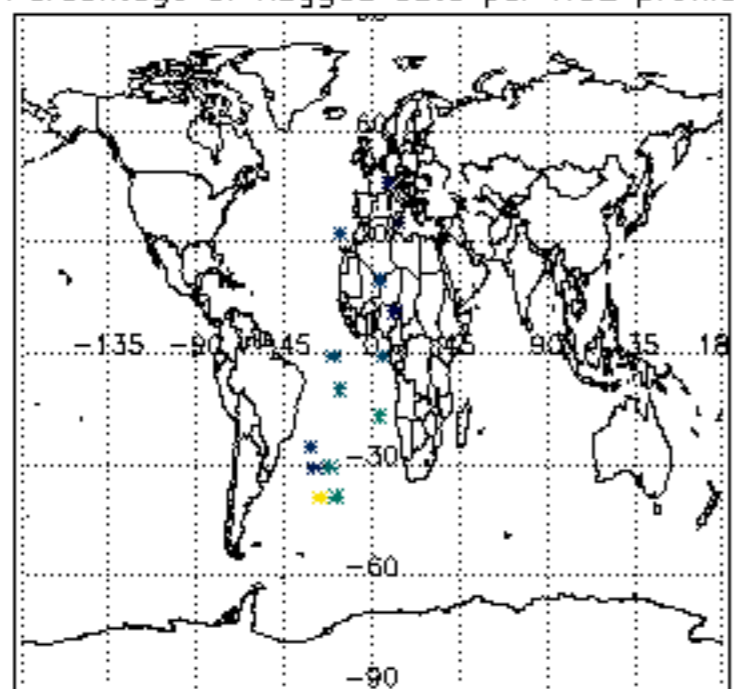
Percentage of flagged data per D3 profile



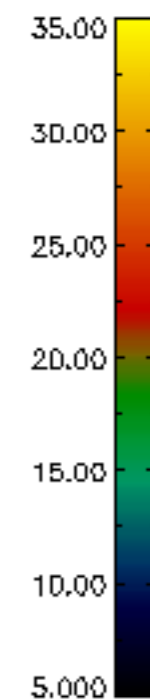
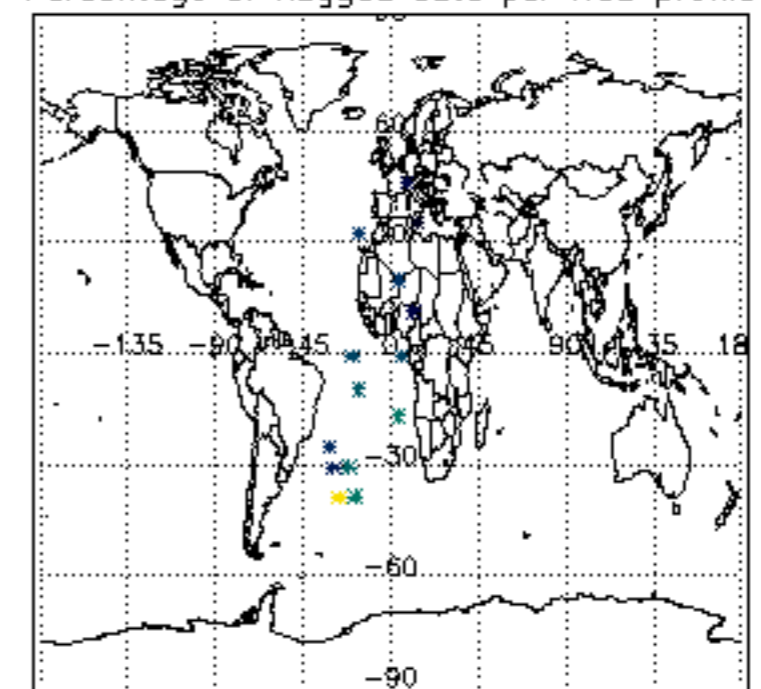
Percentage of flagged data per H2O profile

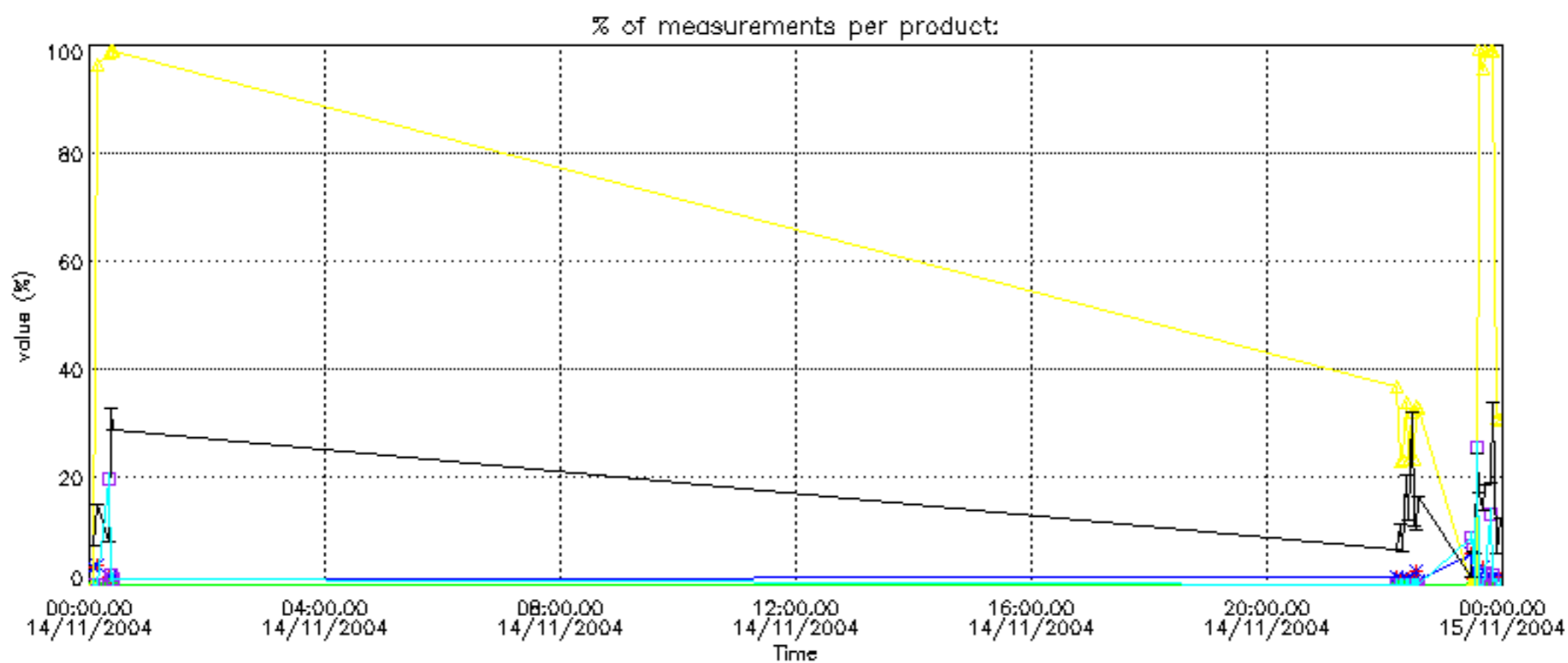
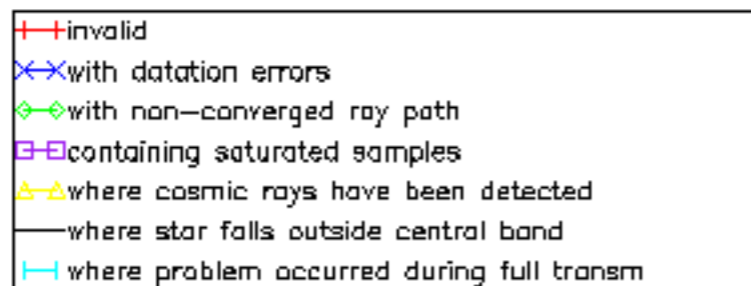


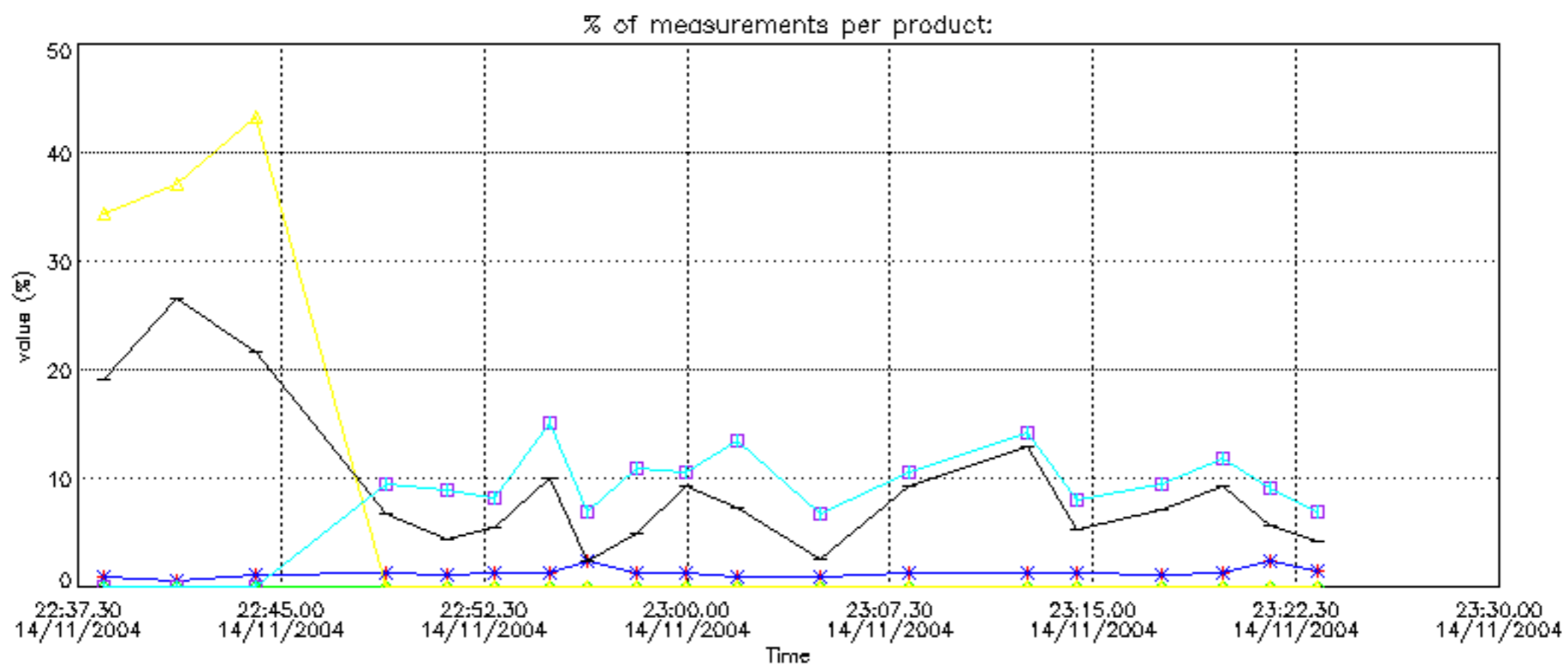
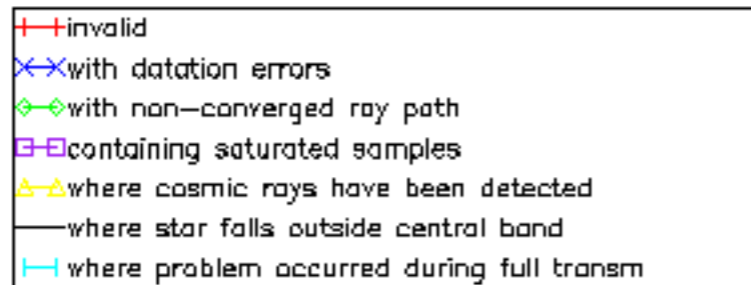
Percentage of flagged data per NO2 profile



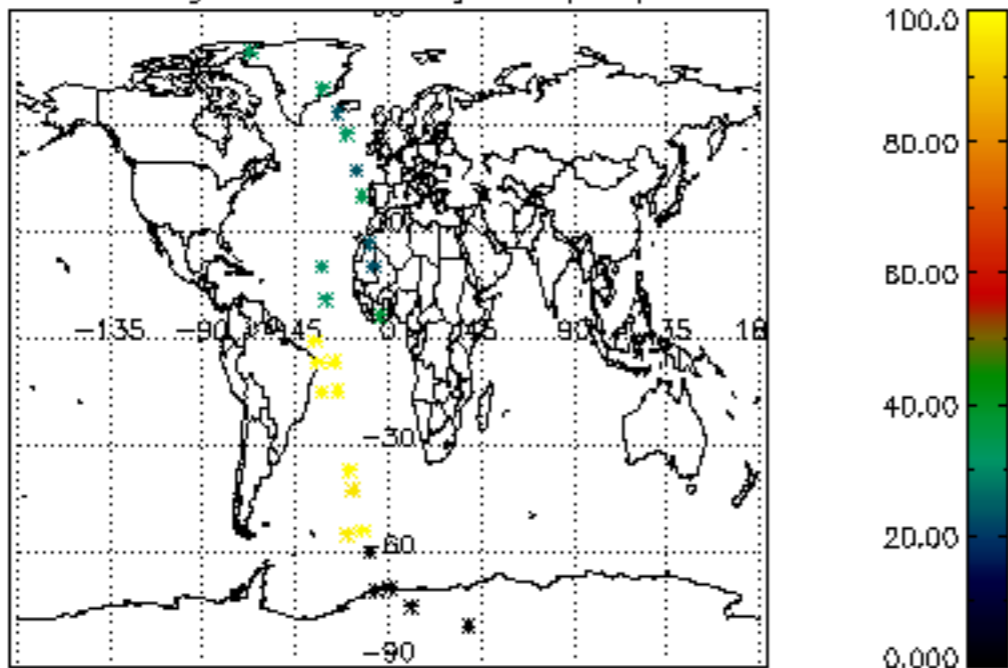
Percentage of flagged data per NO3 profile



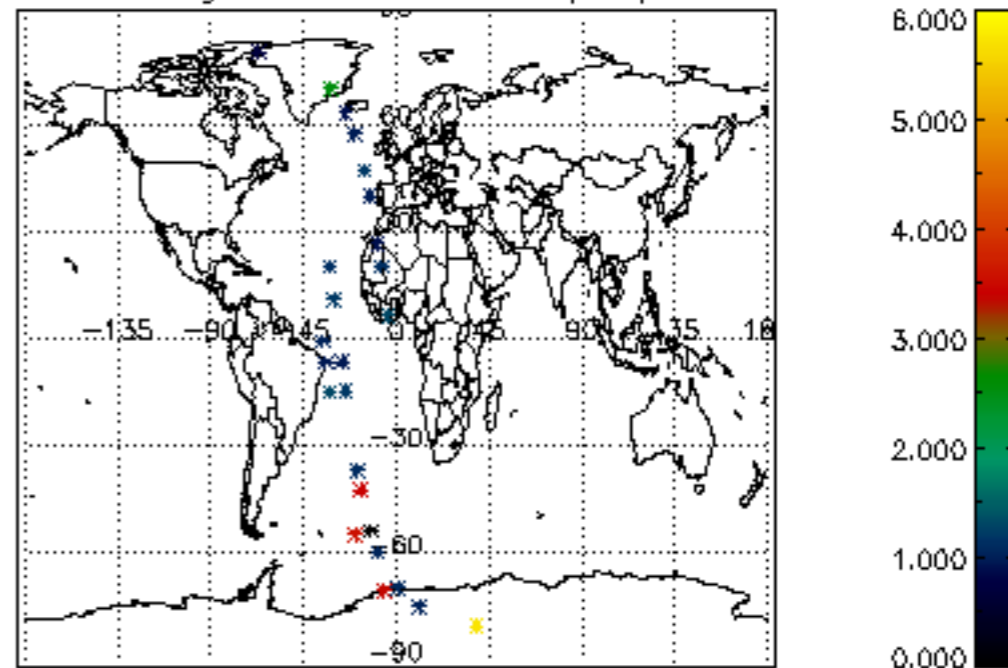




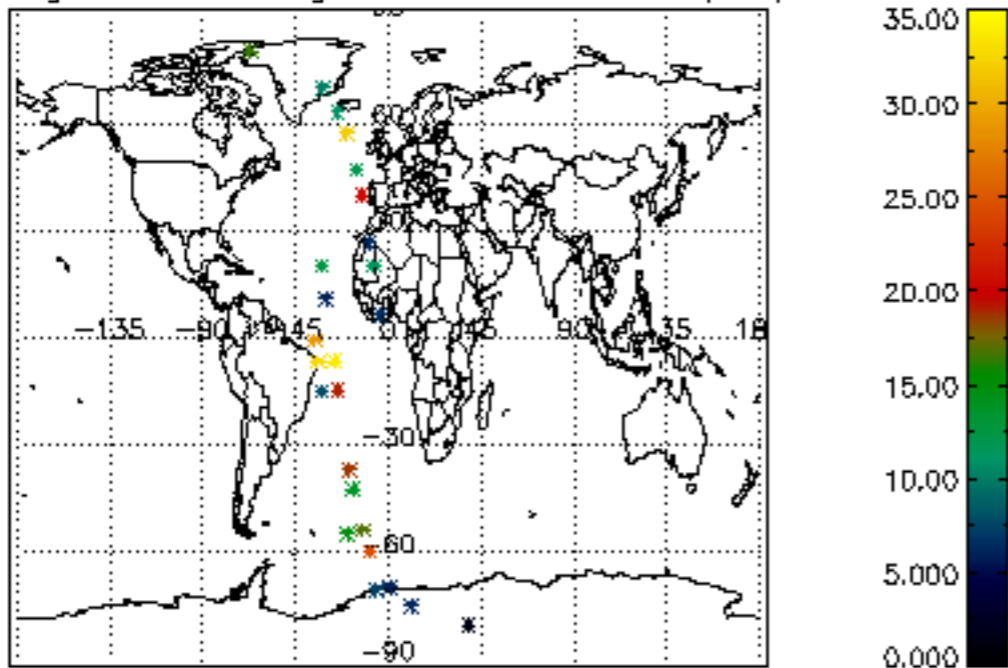
Percentage of cosmic ray hits per profile



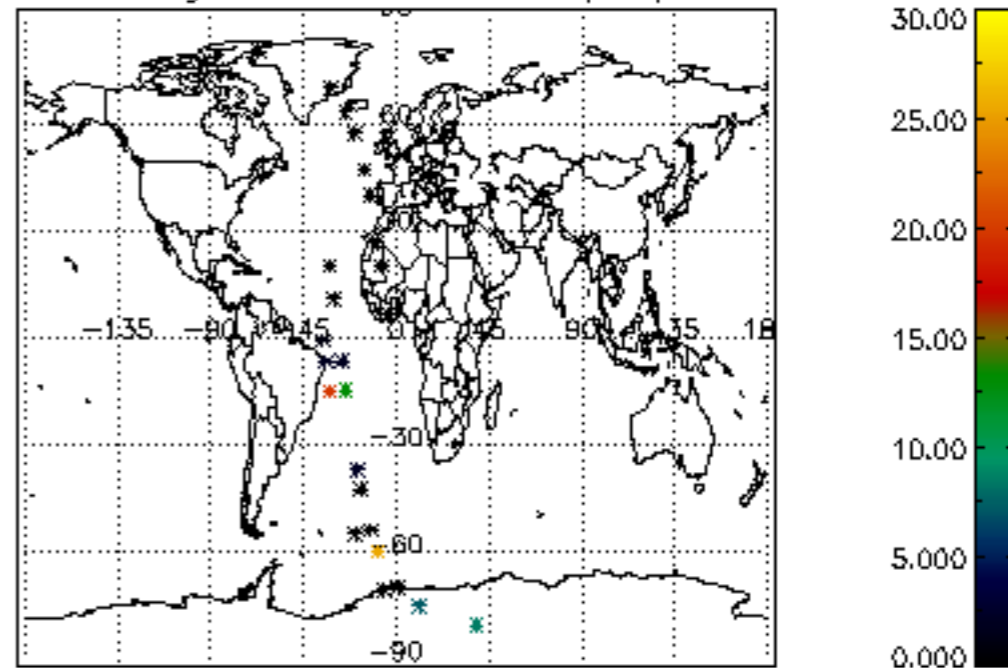
Percentage of datation errors per profile



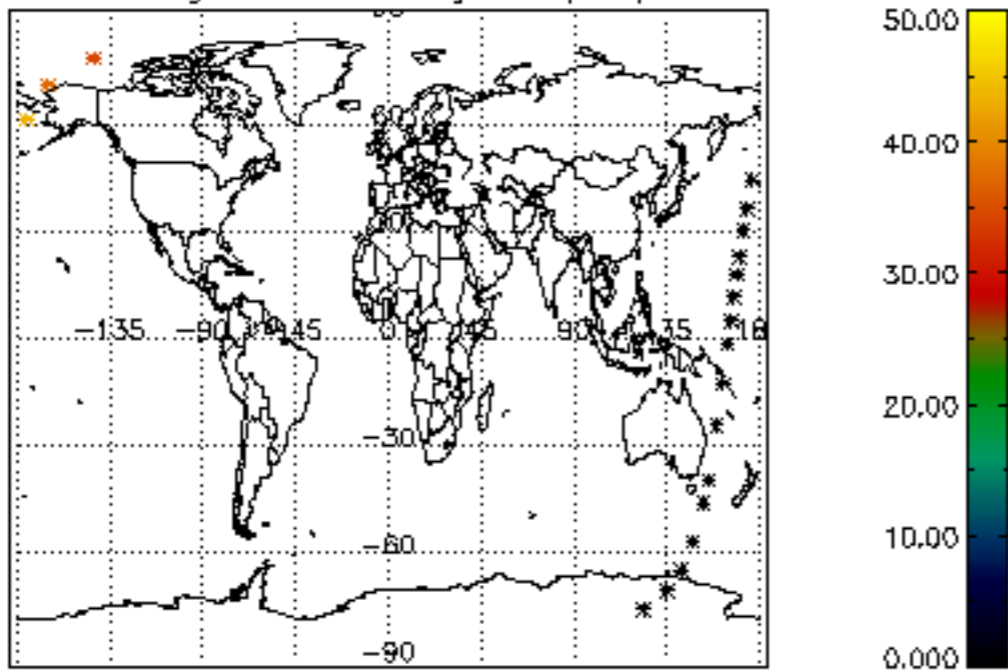
Percentage of star falling outside central band per profile



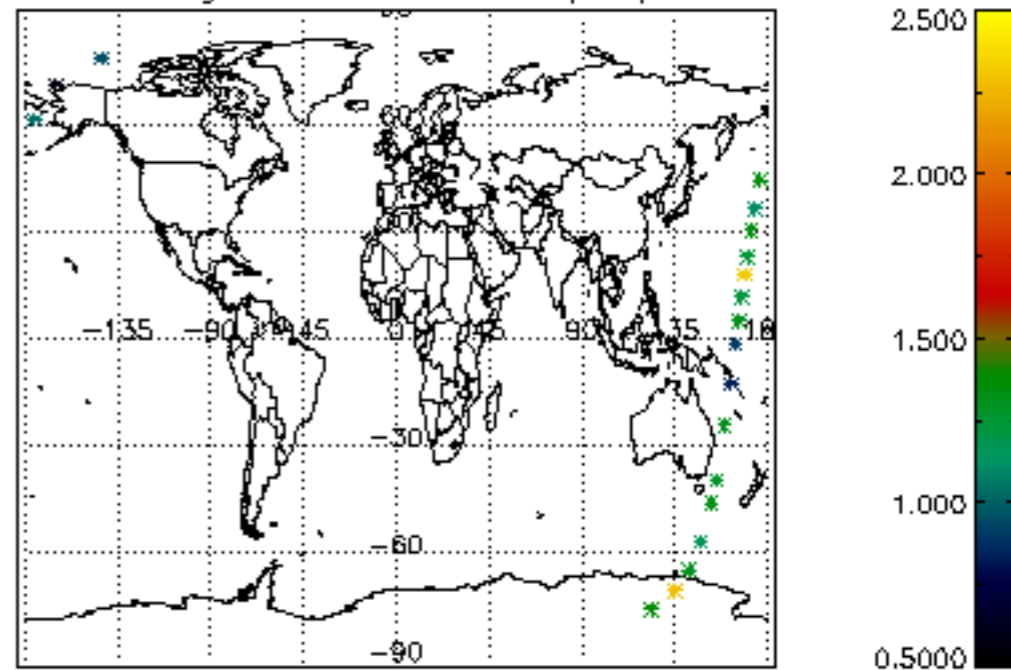
Percentage of saturation errors per profile



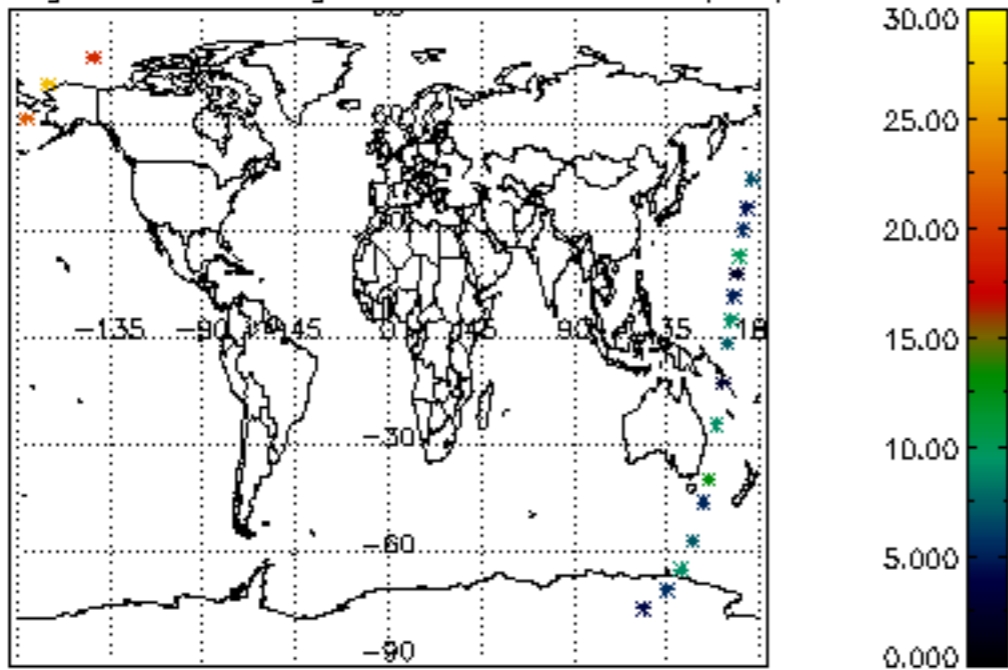
Percentage of cosmic ray hits per profile



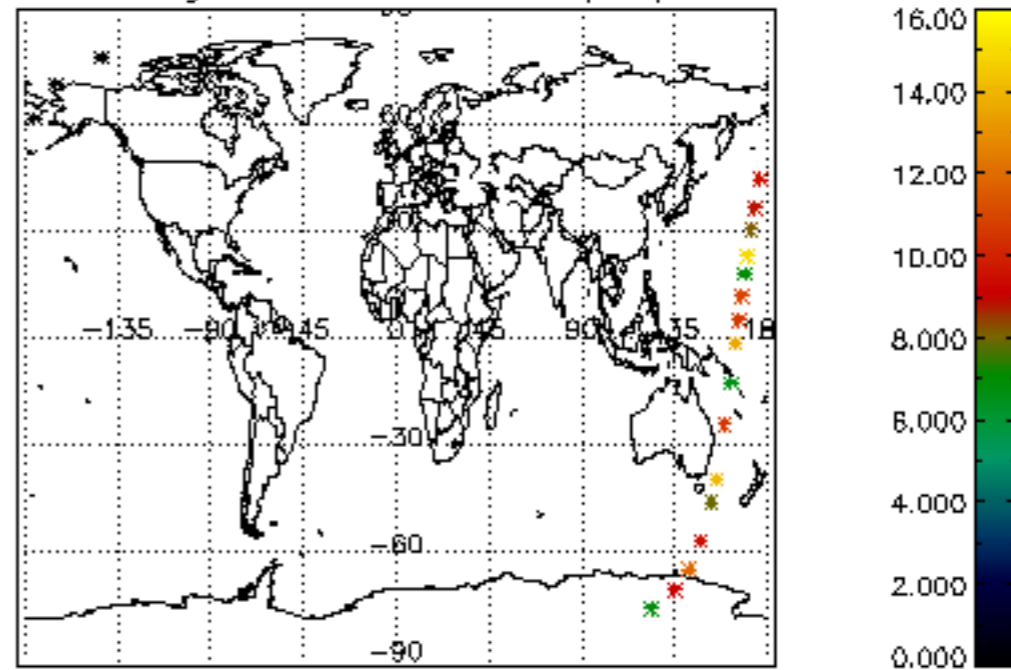
Percentage of datation errors per profile

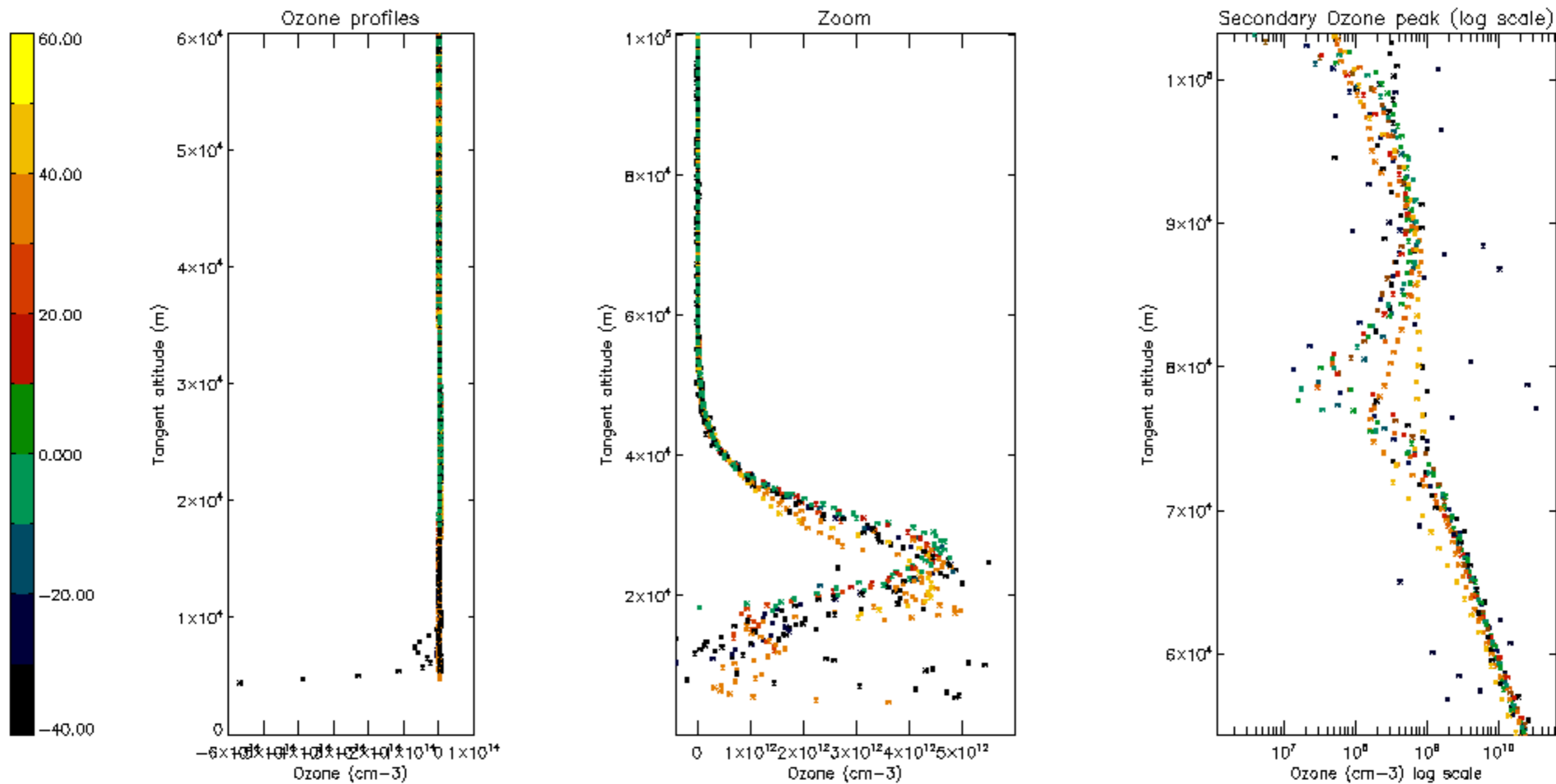


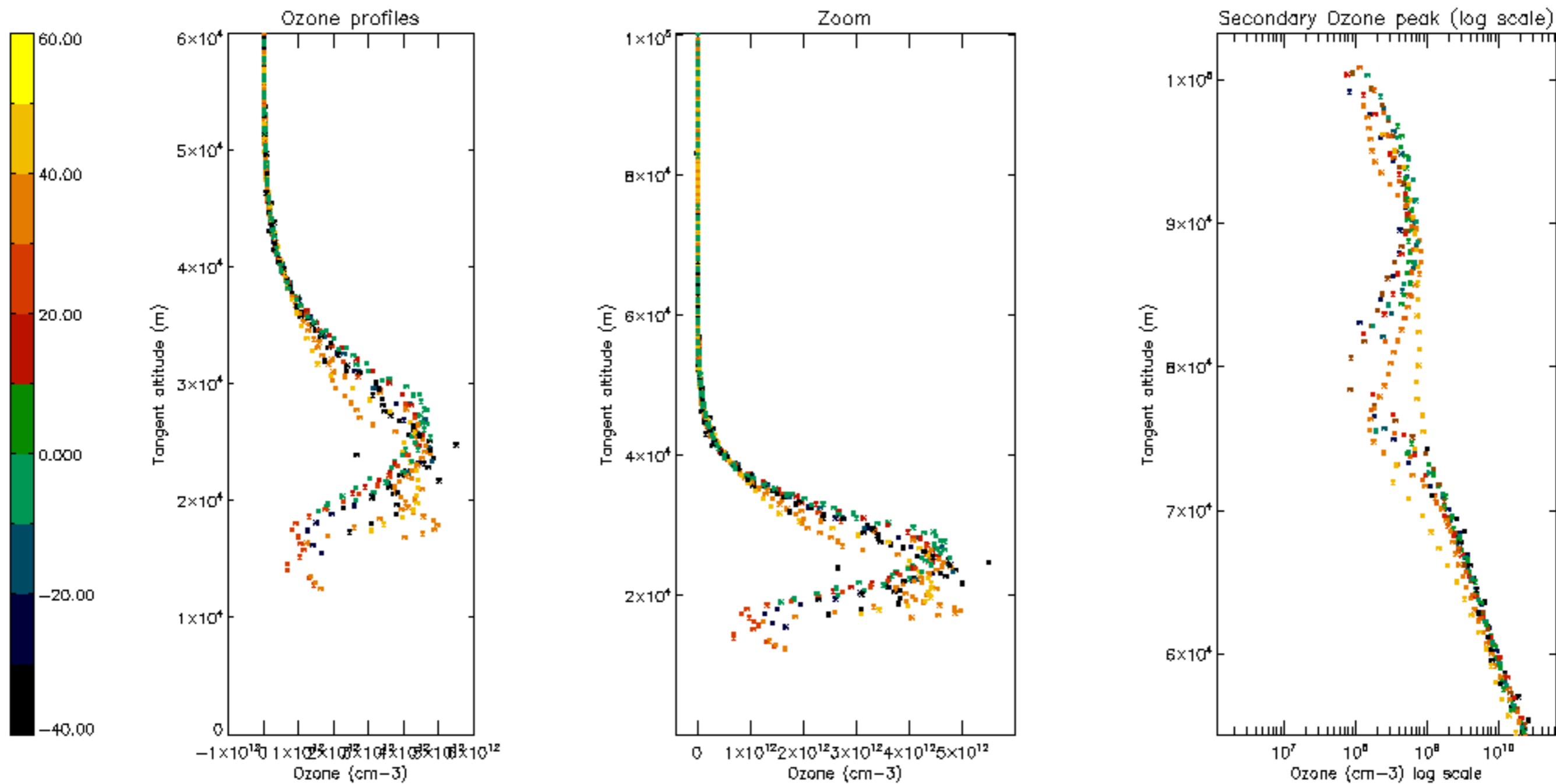
Percentage of star falling outside central band per profile

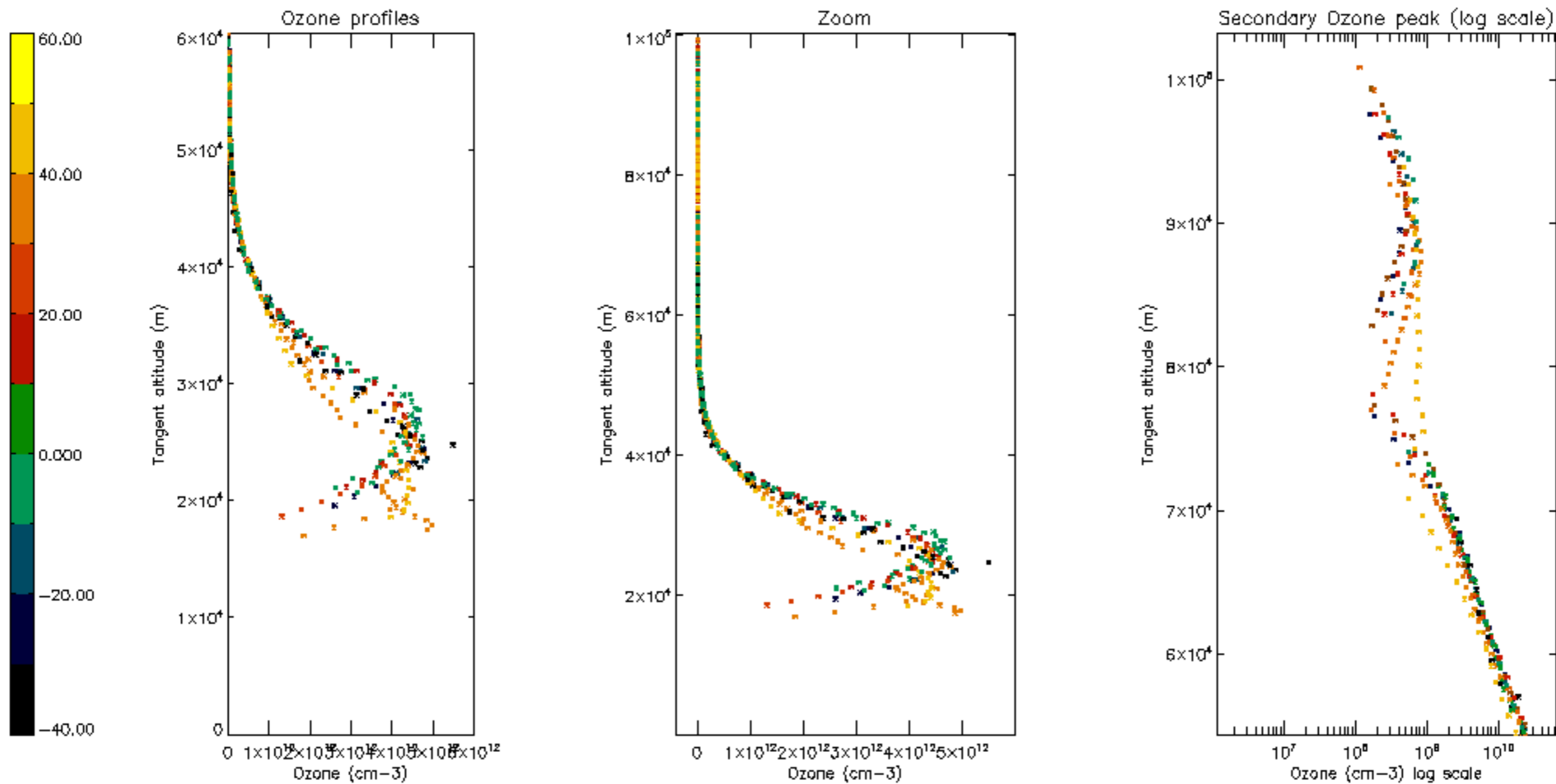


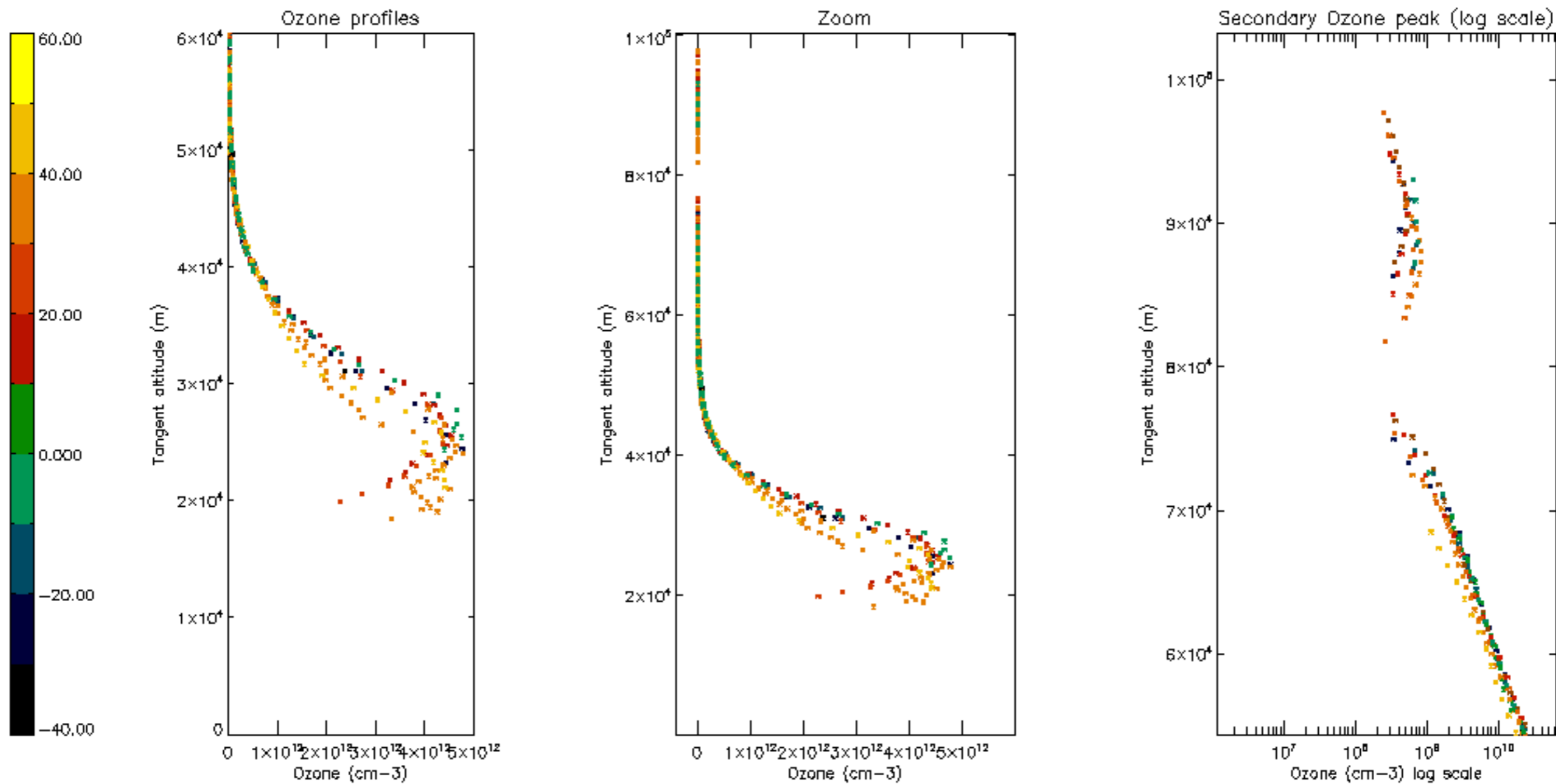
Percentage of saturation errors per profile

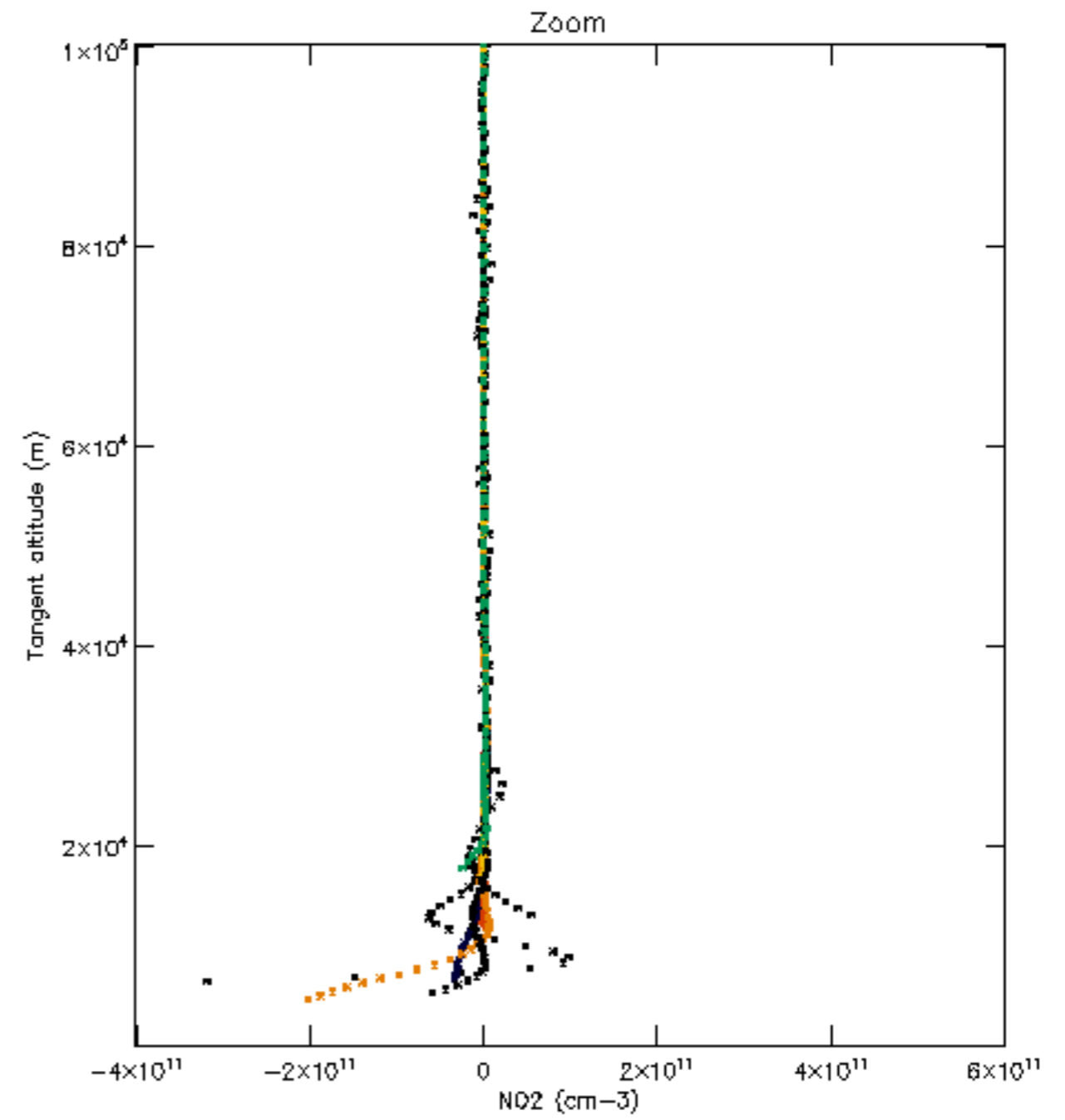
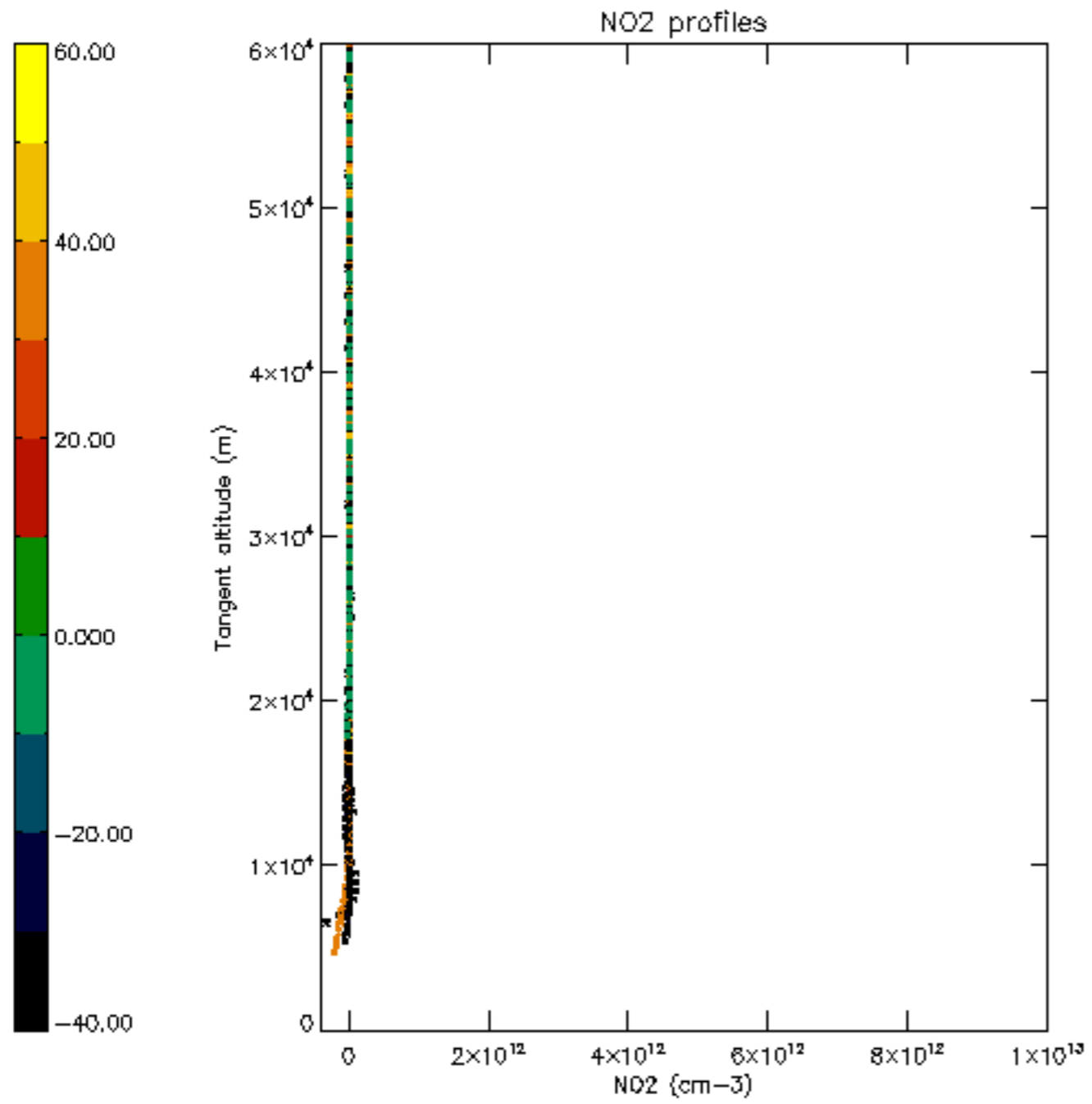


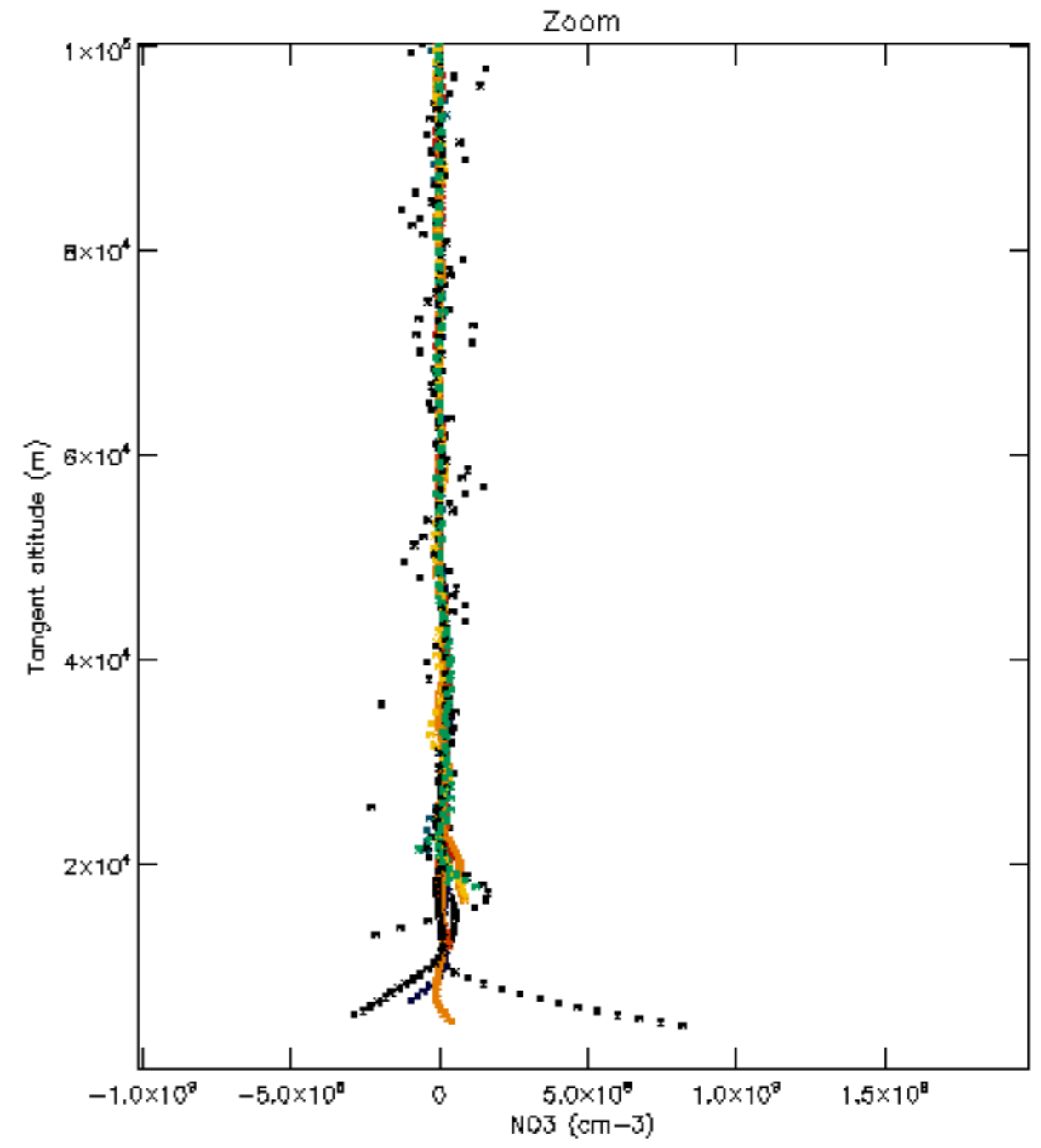
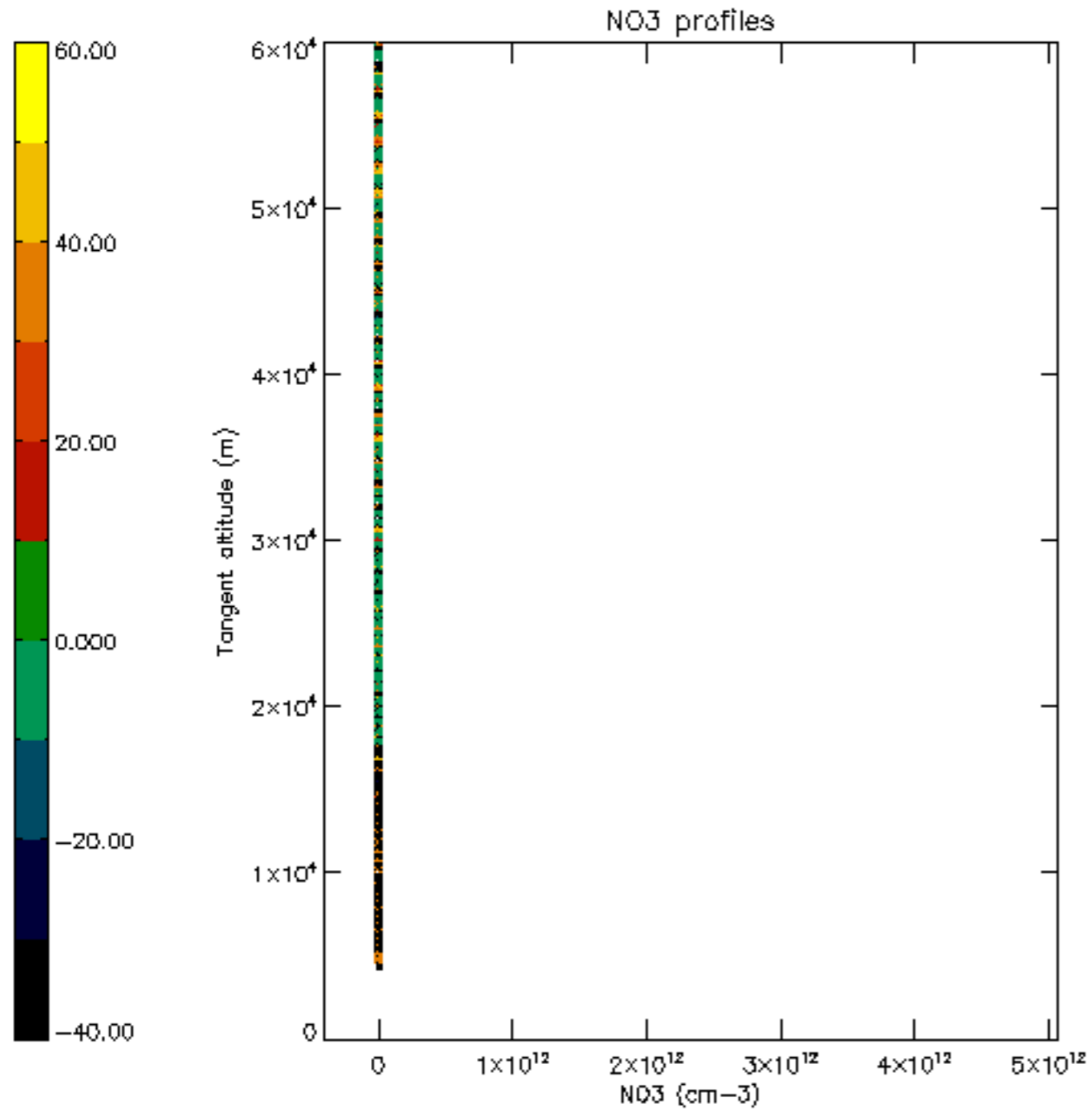


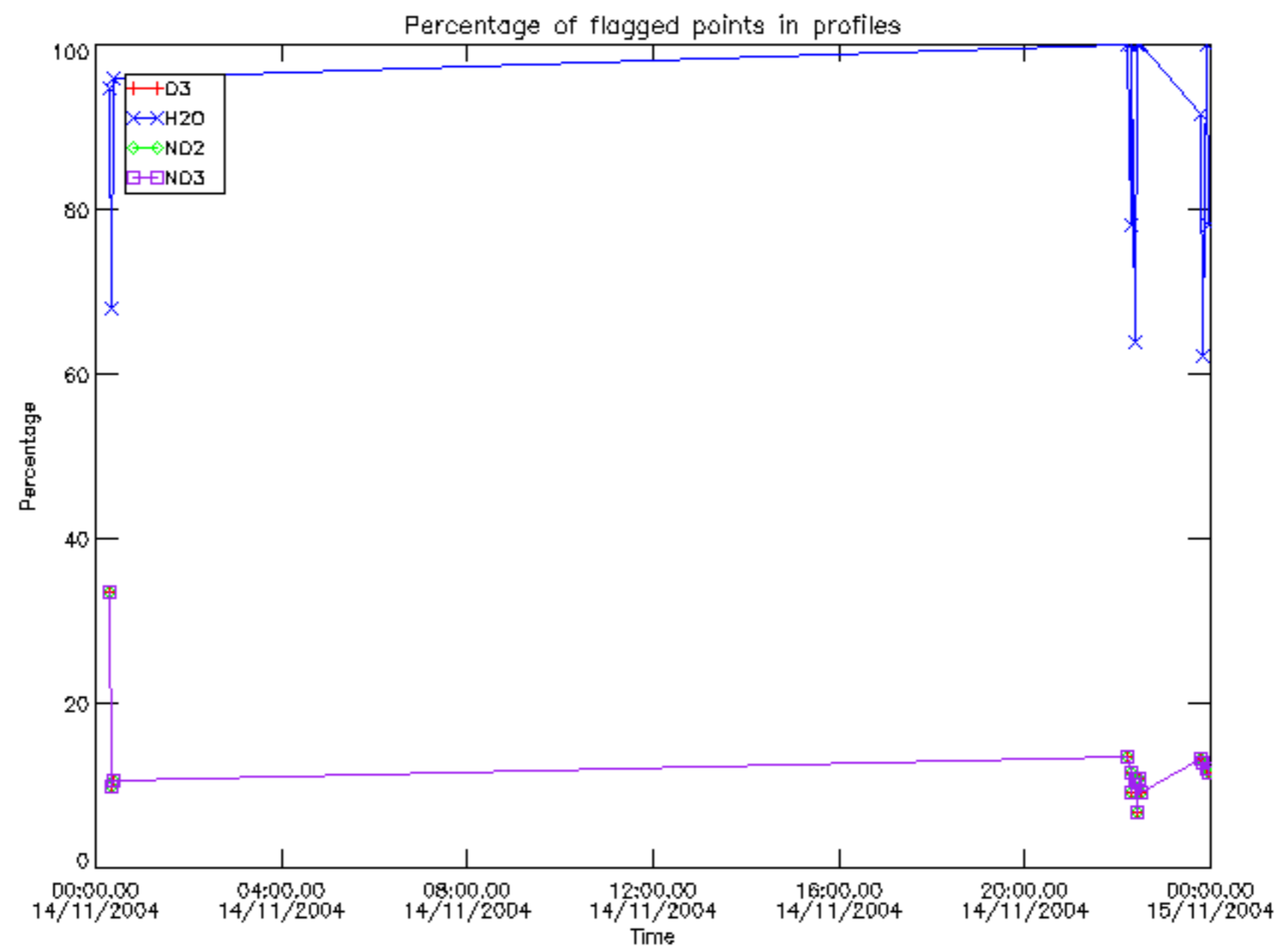




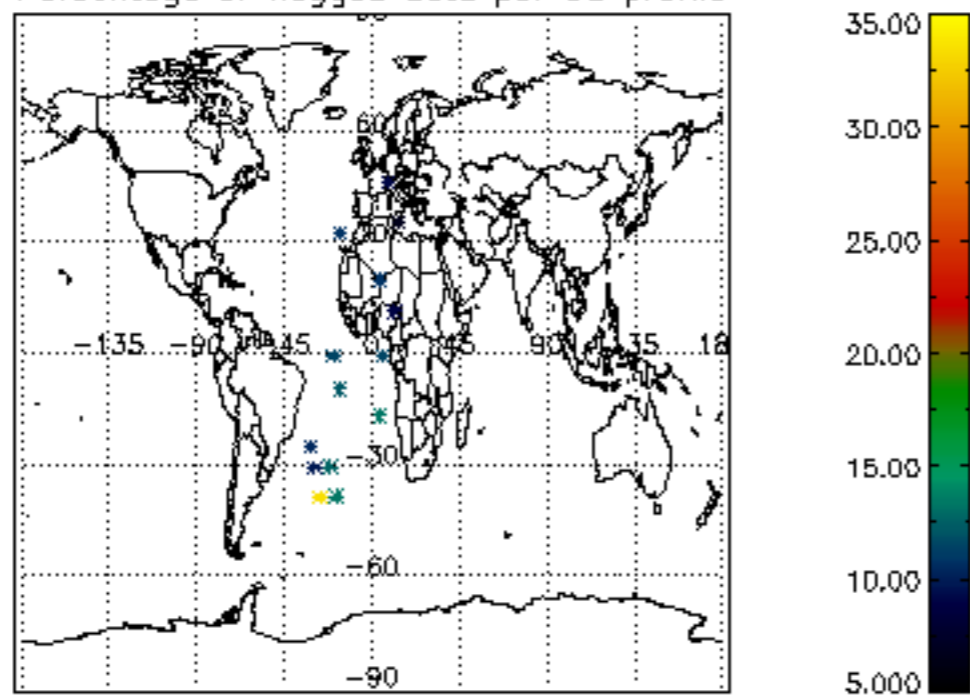




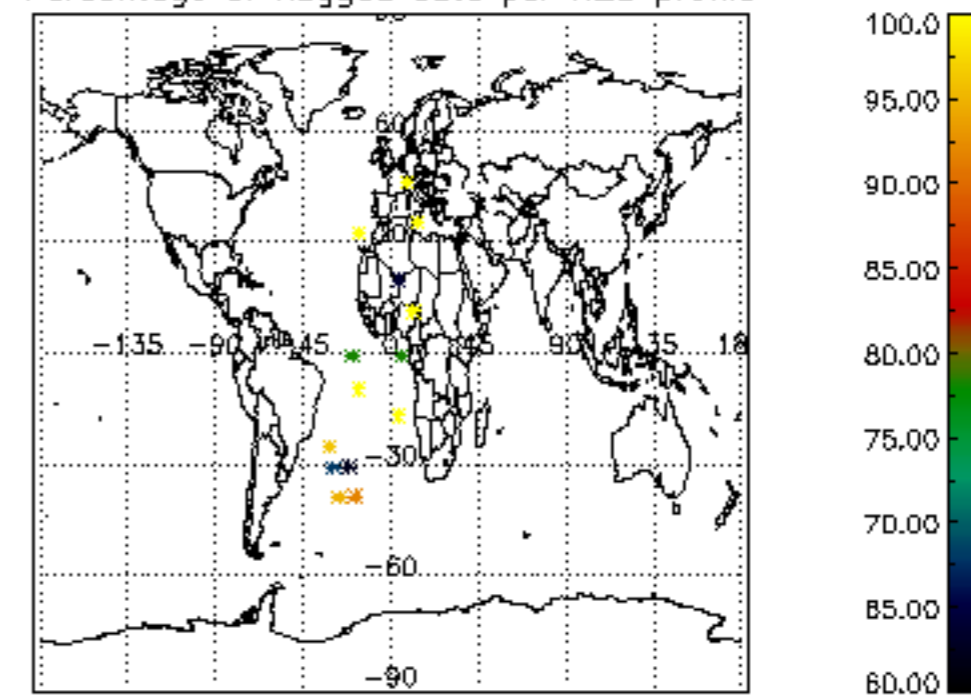




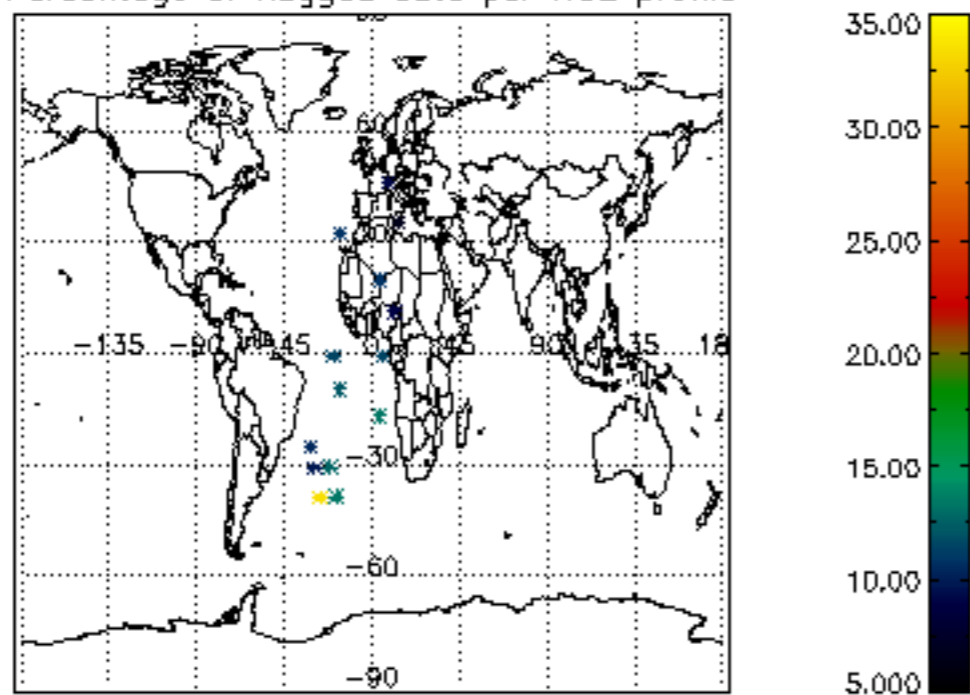
Percentage of flagged data per D3 profile



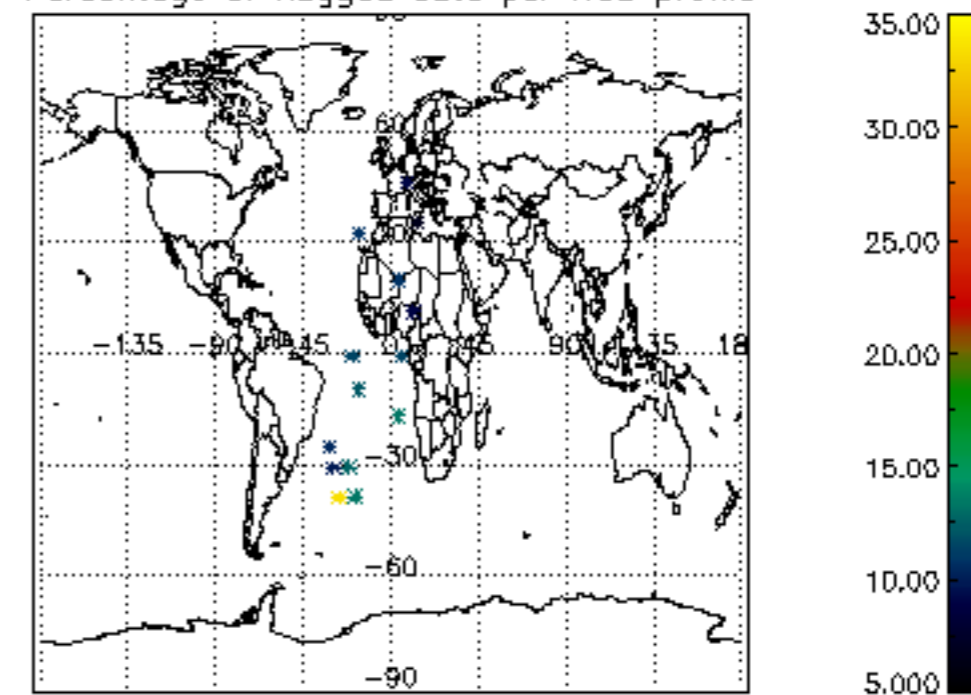
Percentage of flagged data per H2O profile

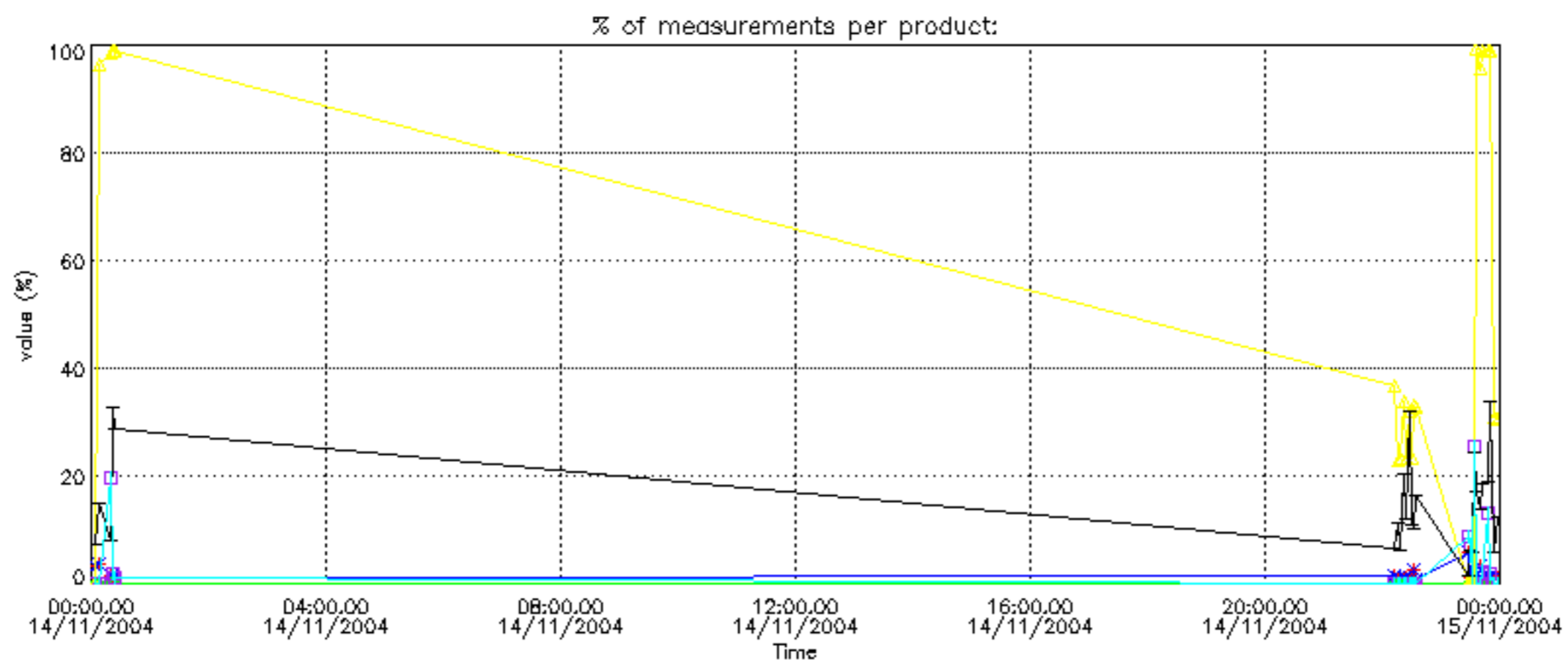
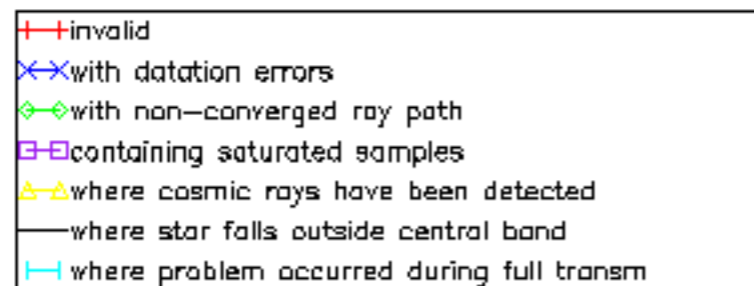


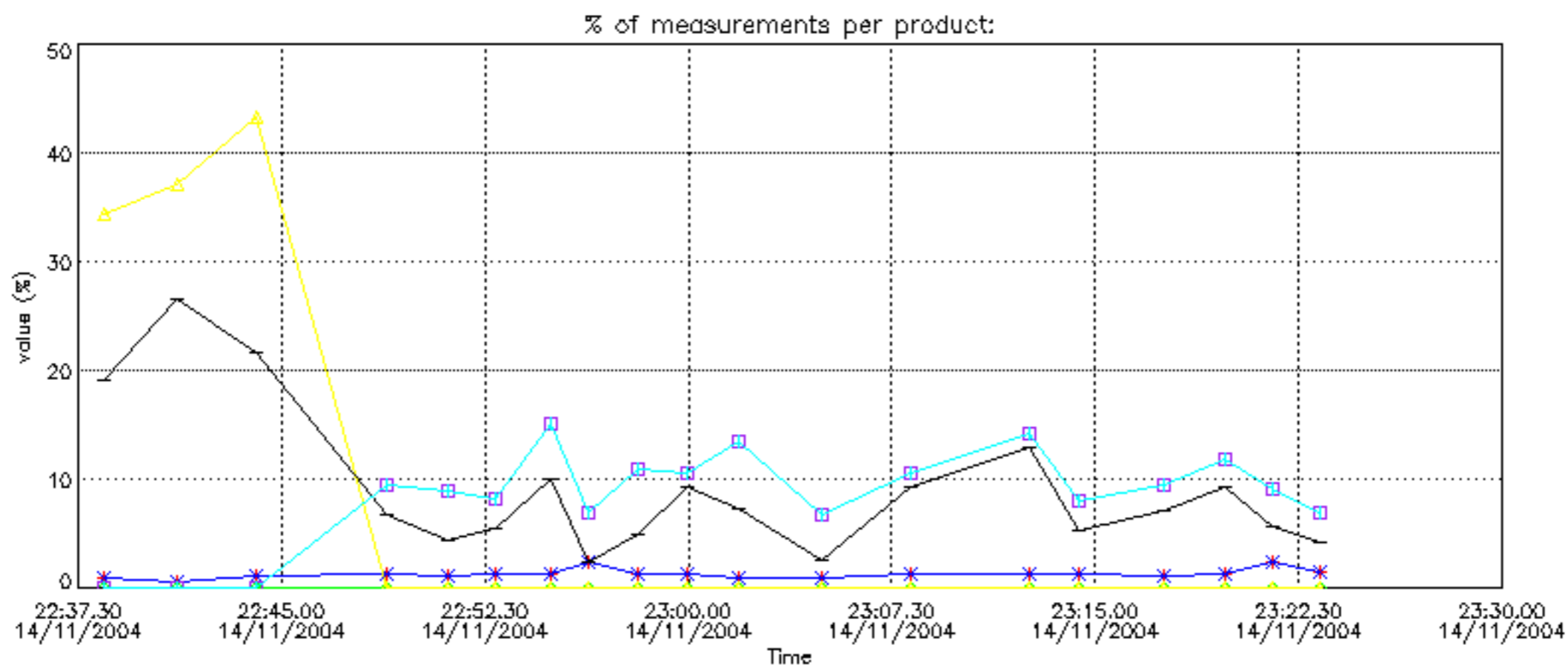
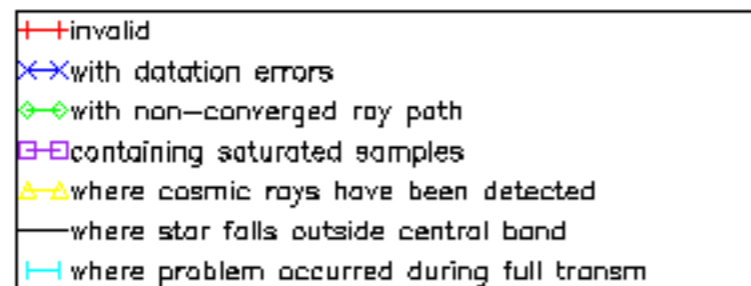
Percentage of flagged data per NO2 profile



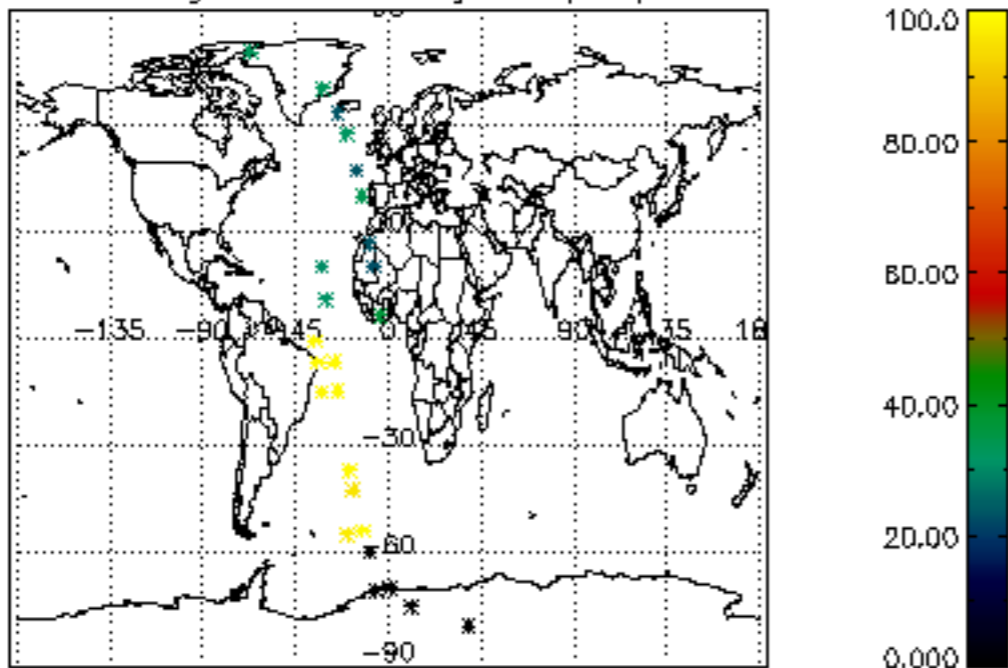
Percentage of flagged data per NO3 profile



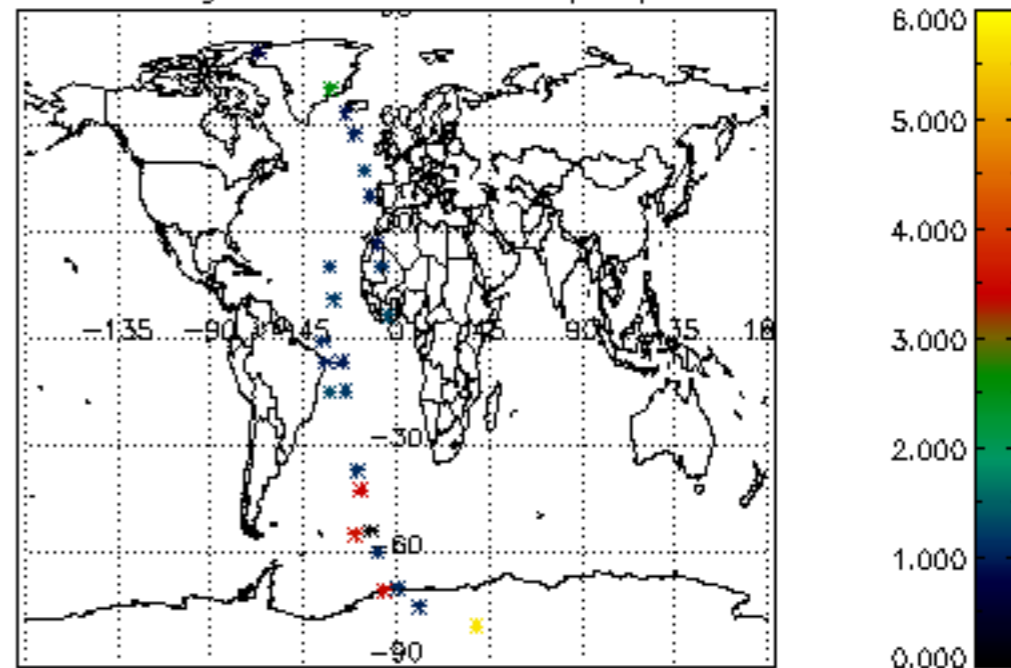




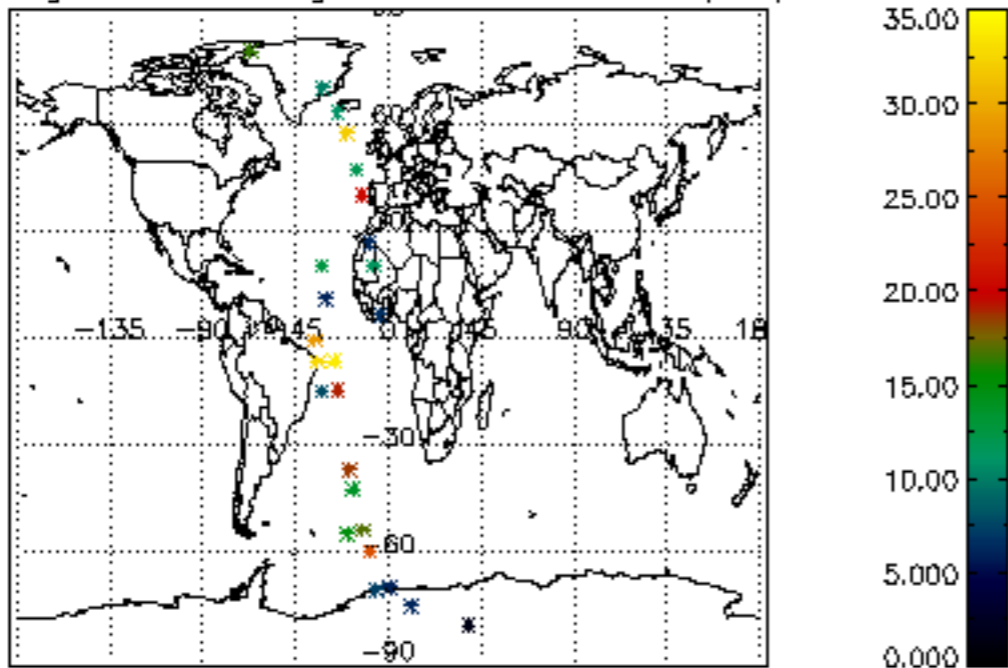
Percentage of cosmic ray hits per profile



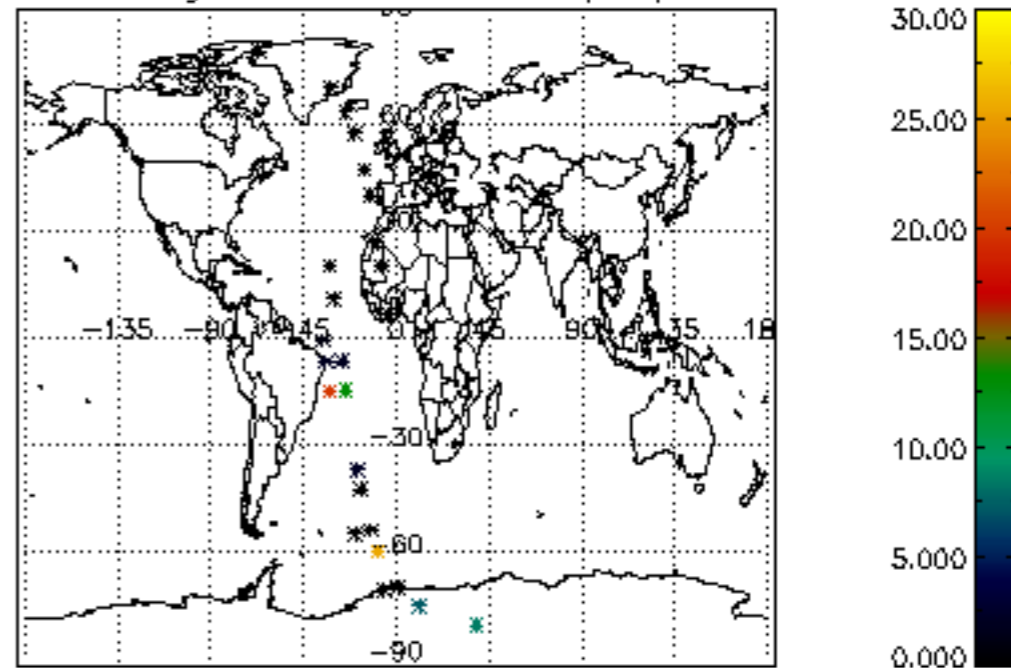
Percentage of datation errors per profile



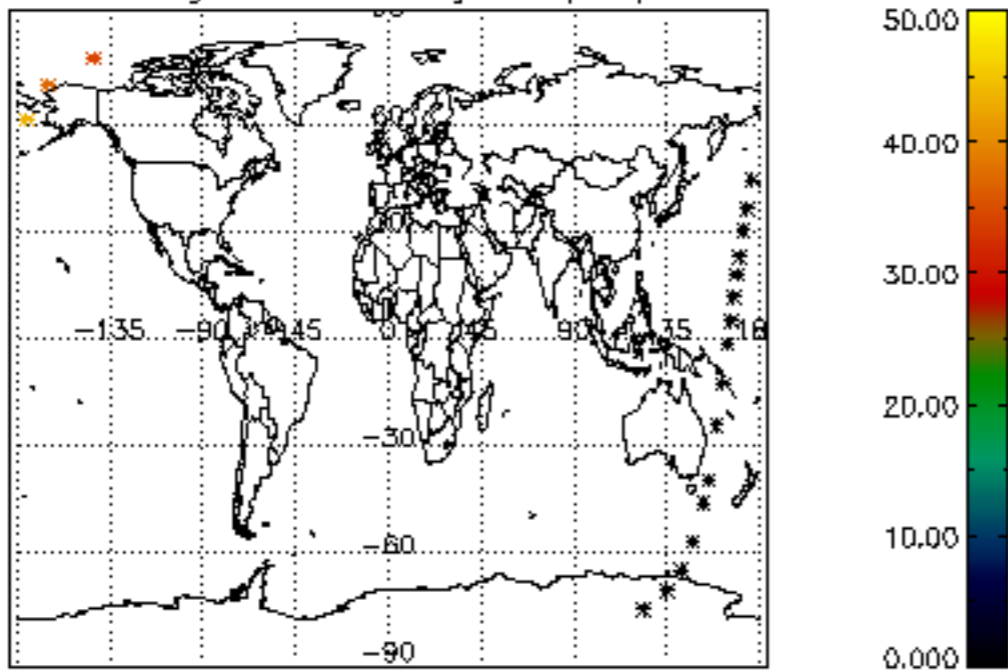
Percentage of star falling outside central band per profile



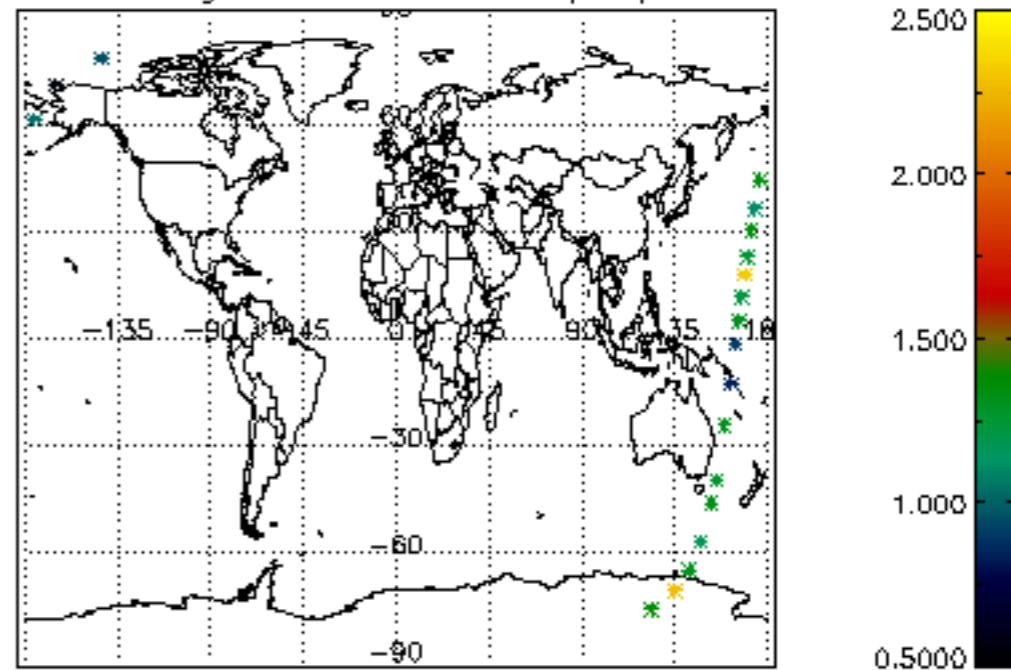
Percentage of saturation errors per profile



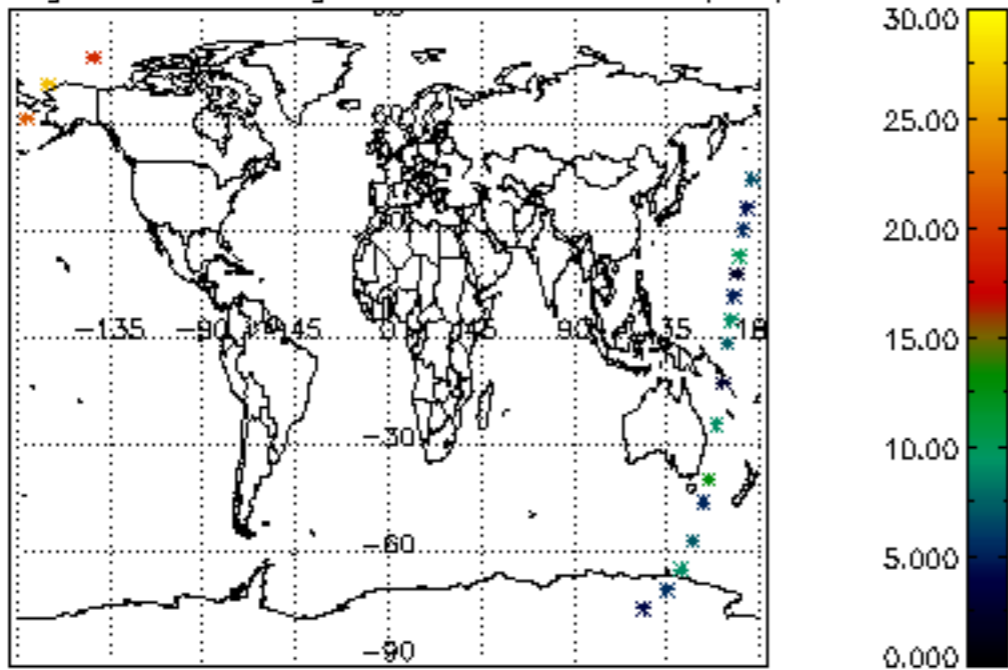
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

