

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](#)

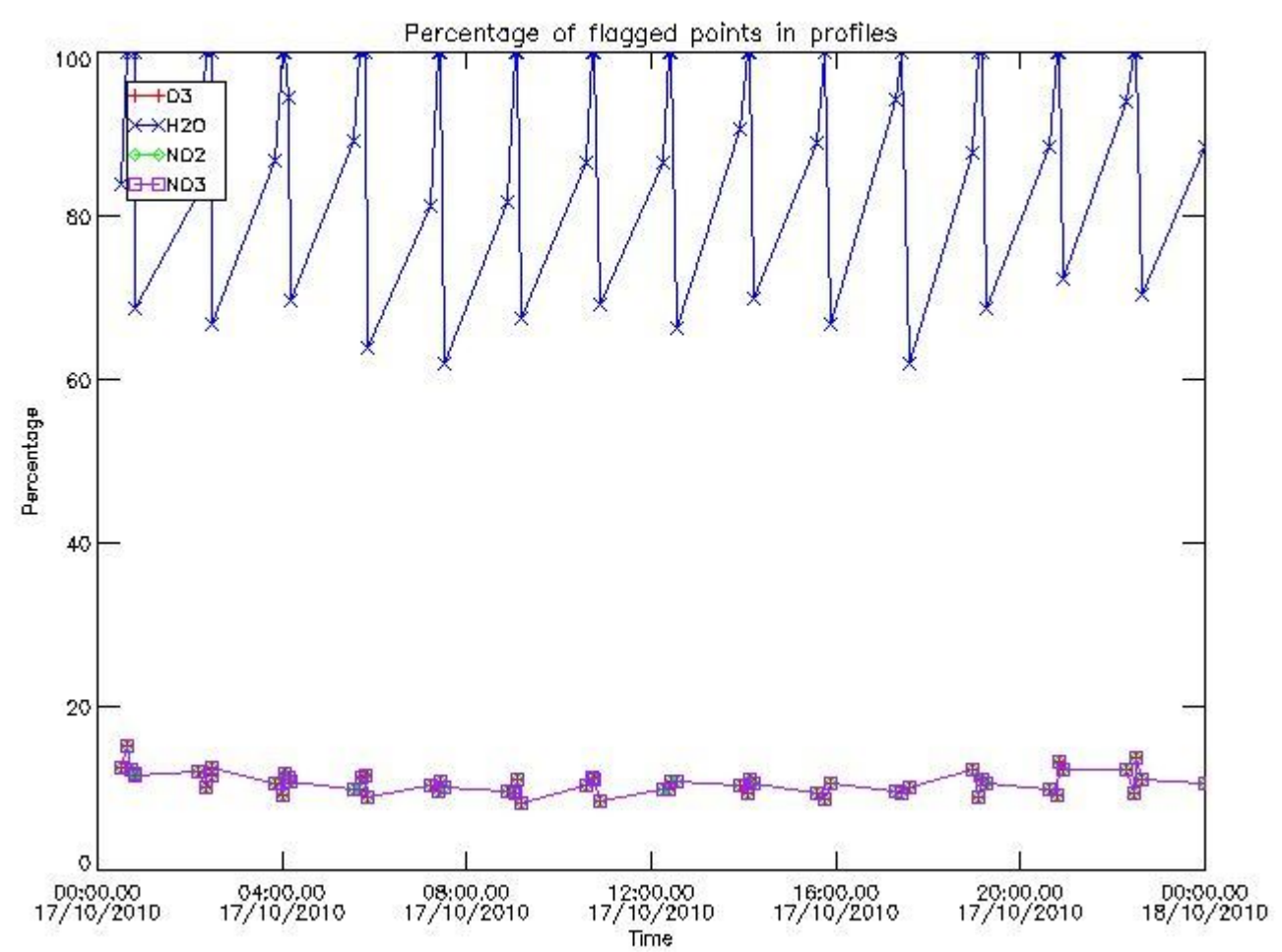
[6. Auxiliary Data Files used for the production reported in section 2](#)

161	GOM_NL__2PRFIN20101017_204702_000000552093_00486_45129_0175.N1	17-OCT-2010 20:47:02	Dark	55.000	132	15Rho Pup	2.8030	6900.0	110	45129	No
162	GOM_NL__2PRFIN20101017_204951_000000432093_00486_45129_0176.N1	17-OCT-2010 20:49:51	Dark	42.500	70	Zet Pup	2.2460	39000.	85	45129	No
163	GOM_NL__2PRFIN20101017_205615_000000452093_00487_45130_0174.N1	17-OCT-2010 20:56:15	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	45130	No
164	GOM_NL__2PRFIN20101017_210753_000000452093_00487_45130_0175.N1	17-OCT-2010 21:07:53	Straylight	45.000	157	The1Eri	2.9060	9300.0	90	45130	No
165	GOM_NL__2PRFIN20101017_212913_000000452093_00487_45130_0176.N1	17-OCT-2010 21:29:13	Bright	44.500	105	6Bet Ari	2.6450	8900.0	89	45130	No
166	GOM_NL__2PRFIN20101017_213242_000000412093_00487_45130_0177.N1	17-OCT-2010 21:32:42	Bright	40.500	53	43Bet And	2.0480	3300.0	81	45130	No
167	GOM_NL__2PRFIN20101017_213411_000000472093_00487_45130_0178.N1	17-OCT-2010 21:34:11	Bright	46.500	173	4Bet Tri	3.0040	8900.0	93	45130	No
168	GOM_NL__2PRFIN20101017_213604_000000472093_00487_45130_0179.N1	17-OCT-2010 21:36:04	Bright	47.000	73	57Gam1And	2.2600	13100.	94	45130	No
169	GOM_NL__2PRFIN20101017_213955_000000392093_00487_45130_0180.N1	17-OCT-2010 21:39:55	Bright	38.500	110	37Del Cas	2.6780	8900.0	77	45130	No
170	GOM_NL__2PRFIN20101017_214118_000000452093_00487_45130_0181.N1	17-OCT-2010 21:41:18	Bright	44.500	160	23Gam Per	2.9300	4700.0	89	45130	No
171	GOM_NL__2PRFIN20101017_220737_000000622093_00487_45130_0182.N1	17-OCT-2010 22:07:37	Bright	62.000	166	17Eps Leo	2.9800	6000.0	124	45130	No
172	GOM_NL__2PRFIN20101017_221055_000000422093_00487_45130_0183.N1	17-OCT-2010 22:10:55	Bright	41.500	22	32Alp Leo	1.3600	15200.	83	45130	No
173	GOM_NL__2PRFIN20101017_221829_000000582093_00487_45130_0184.N1	17-OCT-2010 22:18:29	Dark	58.000	48	30Alp Hya	1.9770	4100.0	116	45130	No
174	GOM_NL__2PRFIN20101017_222740_000000542093_00487_45130_0185.N1	17-OCT-2010 22:27:40	Dark	54.000	132	15Rho Pup	2.8030	6900.0	108	45130	No
175	GOM_NL__2PRFIN20101017_223113_000000412093_00488_45131_0184.N1	17-OCT-2010 22:31:13	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	45131	No
176	GOM_NL__2PRFIN20101017_223652_000000462093_00488_45131_0185.N1	17-OCT-2010 22:36:52	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	45131	No
177	GOM_NL__2PRFIN20101017_224830_000000472093_00488_45131_0186.N1	17-OCT-2010 22:48:30	Straylight	47.000	157	The1Eri	2.9060	9300.0	94	45131	No
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183	GOM_NL__2PRFIN20101017_232153_000000472093_00488_45131_0192.N1	17-OCT-2010 23:21:53	Bright	47.000	160	23Gam Per	2.9300	4700.0	94	45131	No
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185	GOM_NL__2PRFIN20101017_235132_000000422093_00488_45131_0194.N1	17-OCT-2010 23:51:32	Bright	41.500	22	32Alp Leo	1.3600	15200.	83	45131	No
186	GOM_NL__2PRFIN20101017_235905_000000532093_00488_45131_0195.N1	17-OCT-2010 23:59:05	Dark	52.500	48	30Alp Hya	1.9770	4100.0	105	45131	No

3. Quality information per product

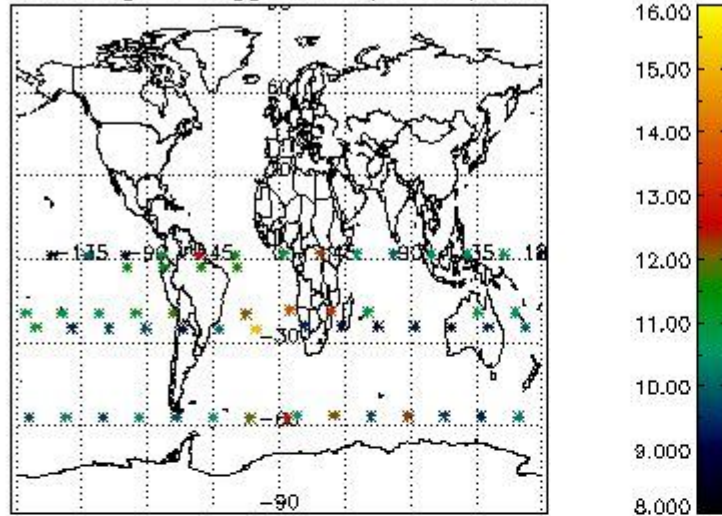
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

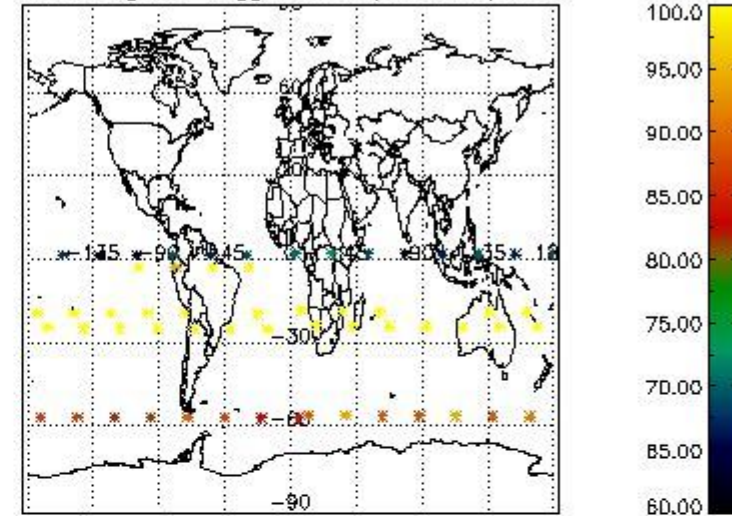


3.2 Plot quality information per product (world map)

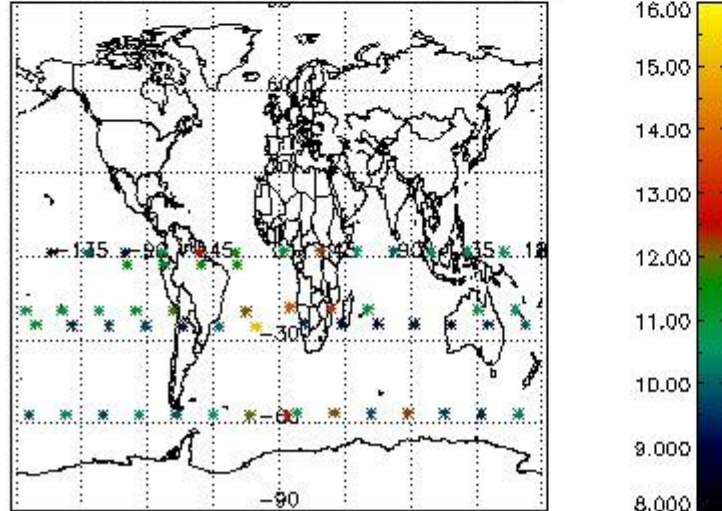
Percentage of flagged data per O3 profile



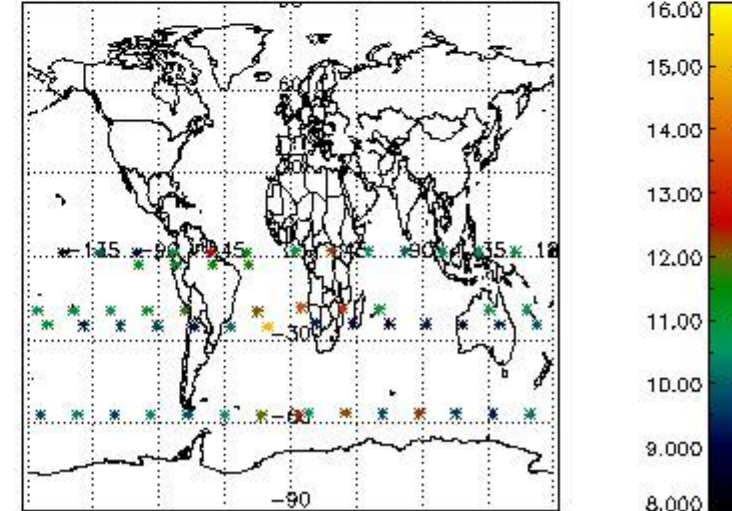
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

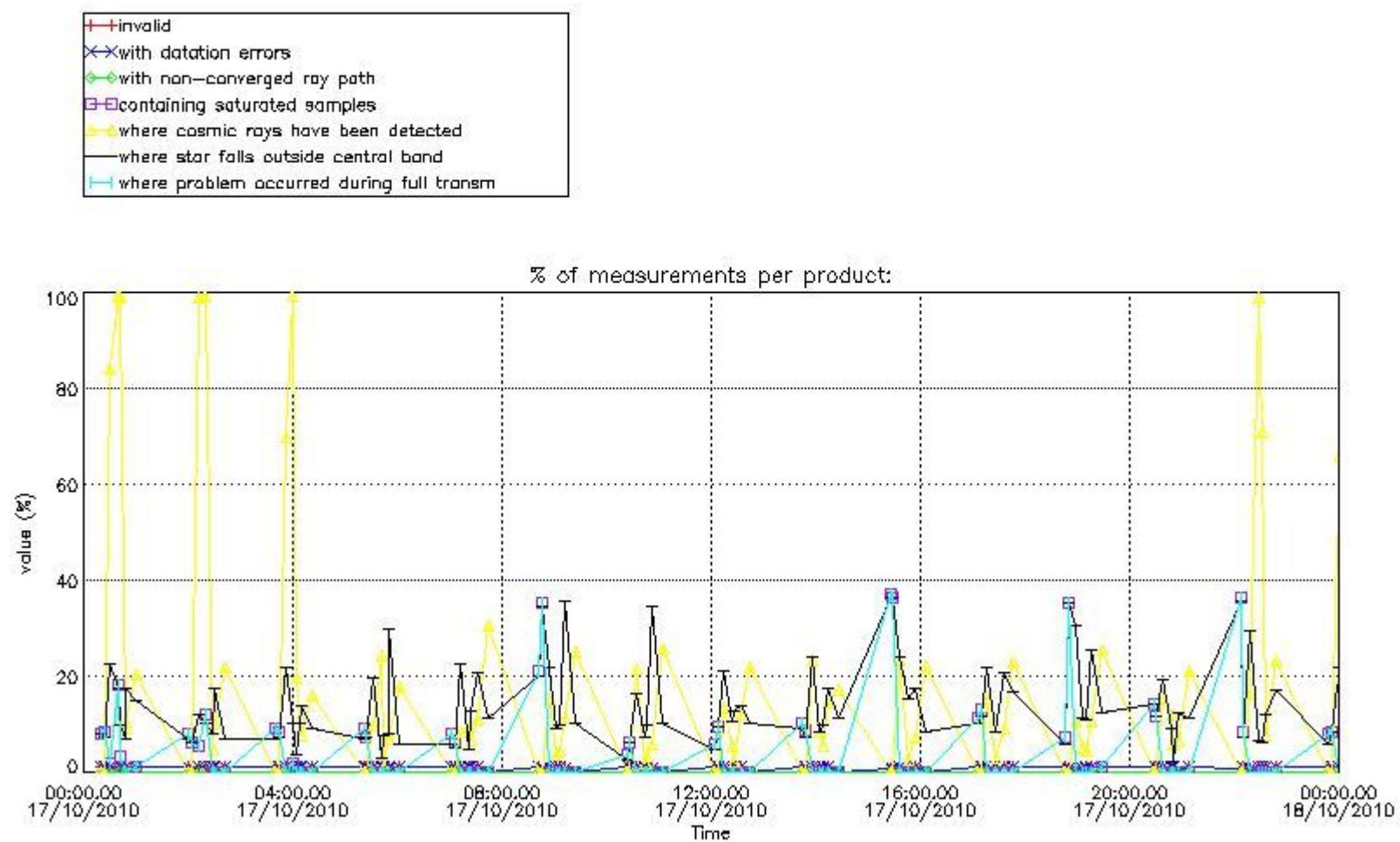


4. Level 1 quality information per product

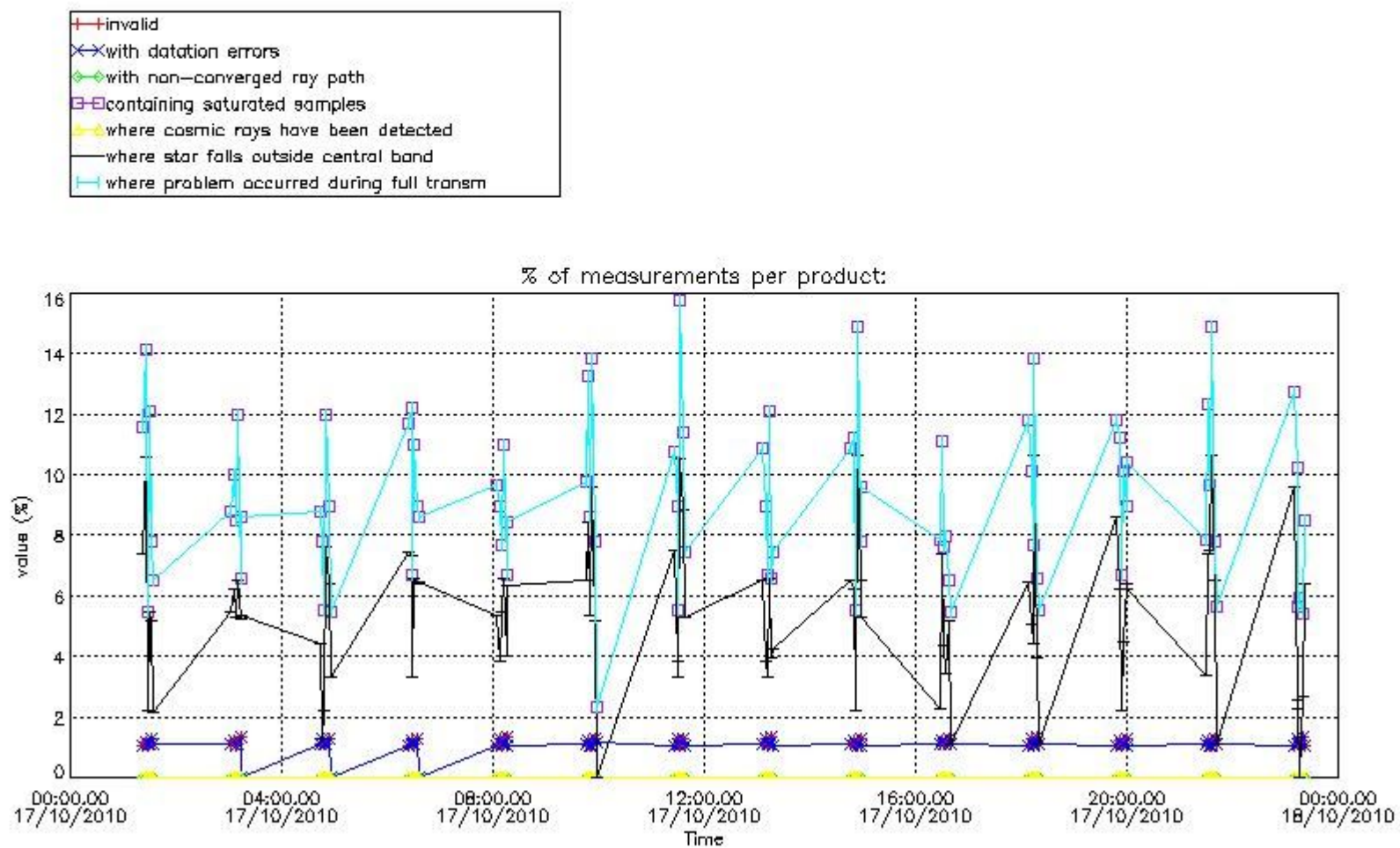
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



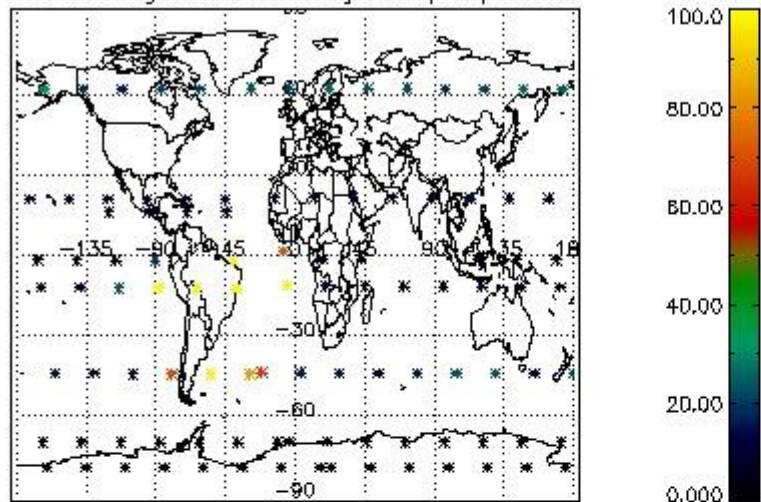
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



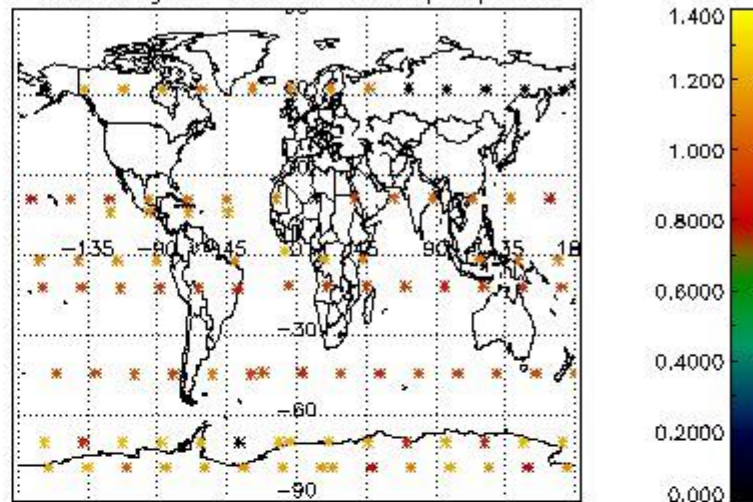
4.2 Plot quality information per product coming from level 1b processing (world map)

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

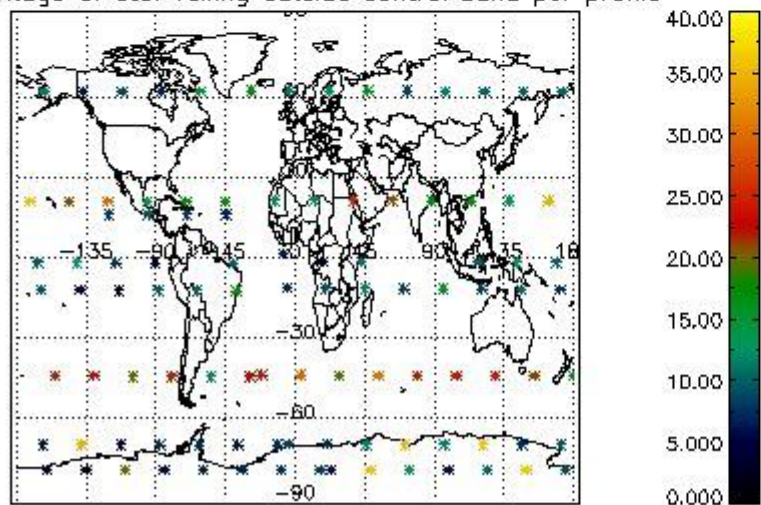
Percentage of cosmic ray hits per profile



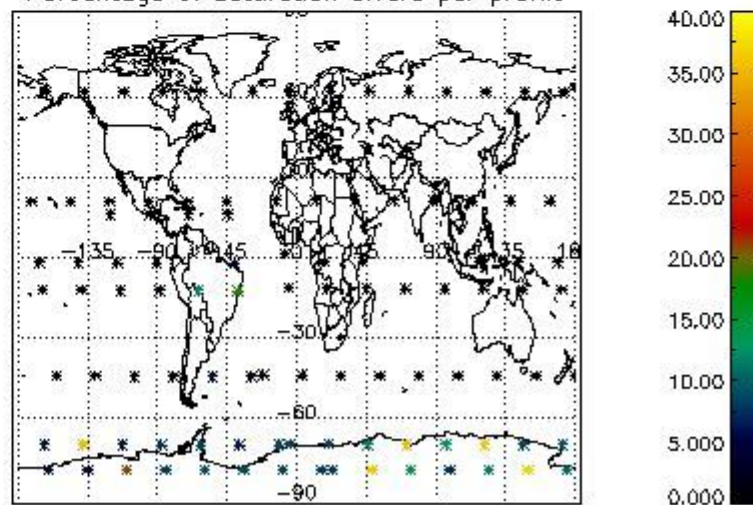
Percentage of datation errors per profile



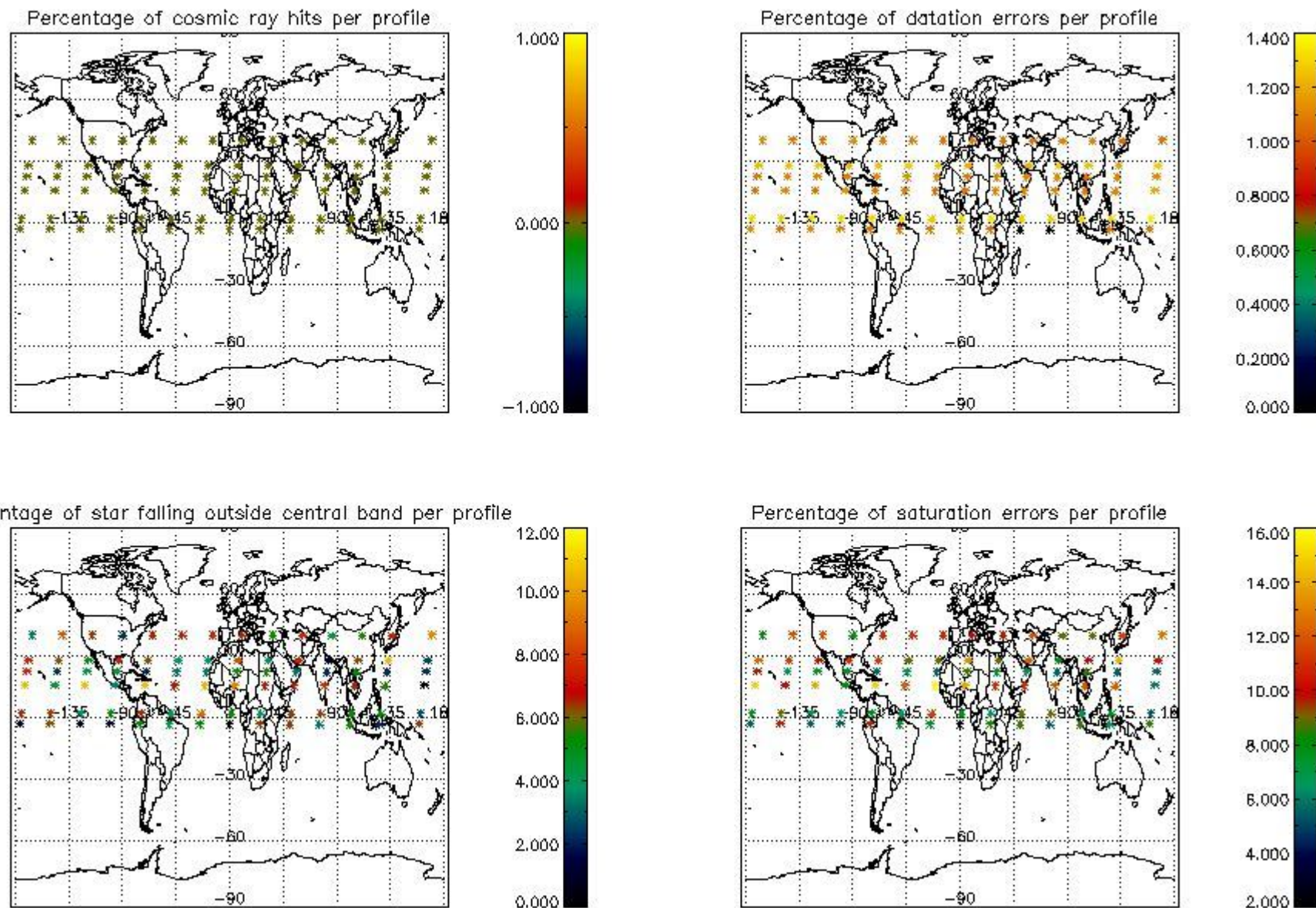
Percentage of star falling outside central band per profile



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

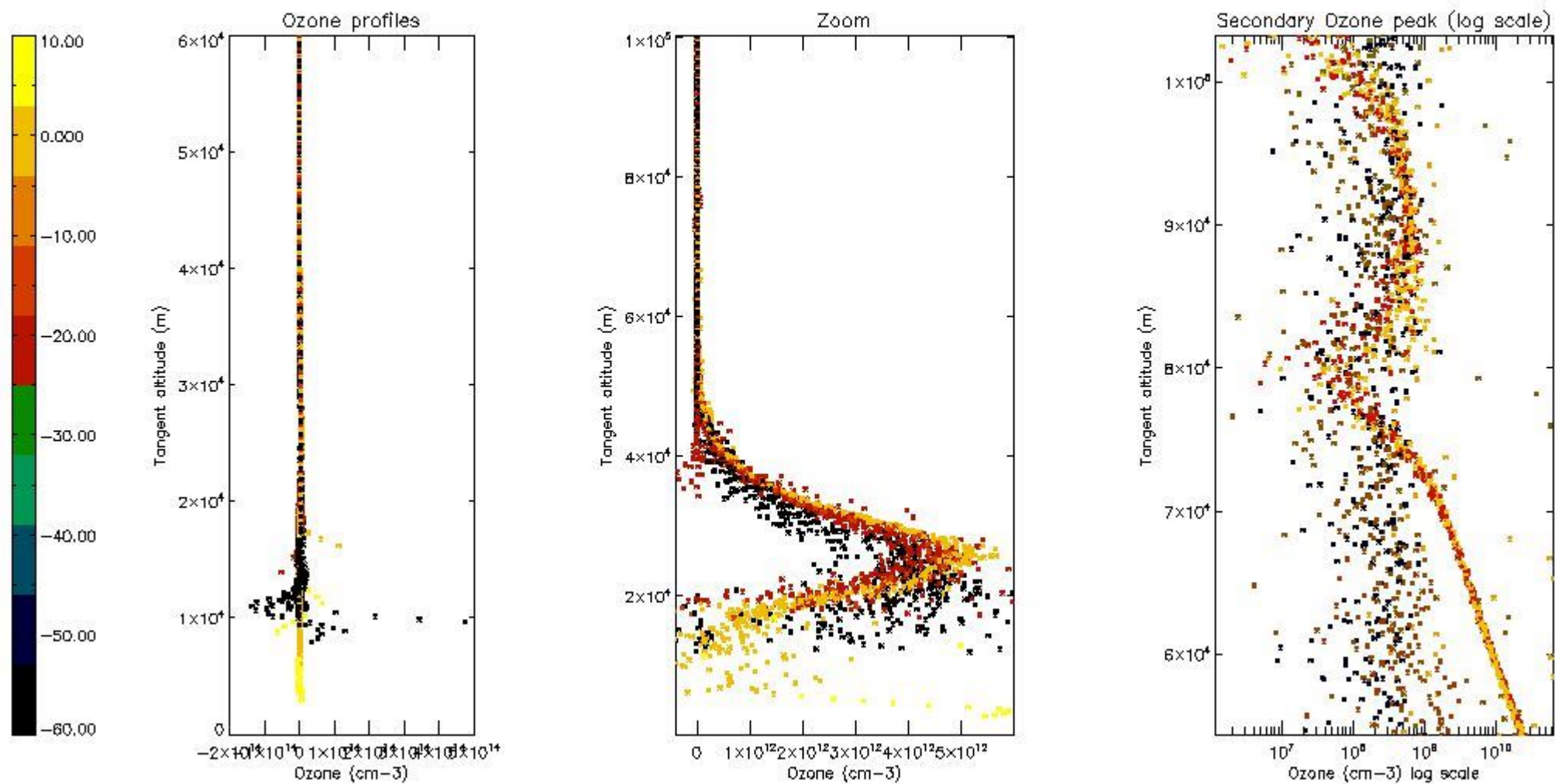
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	35
STD < 20	16

STD < 10	12
STD < 5	8

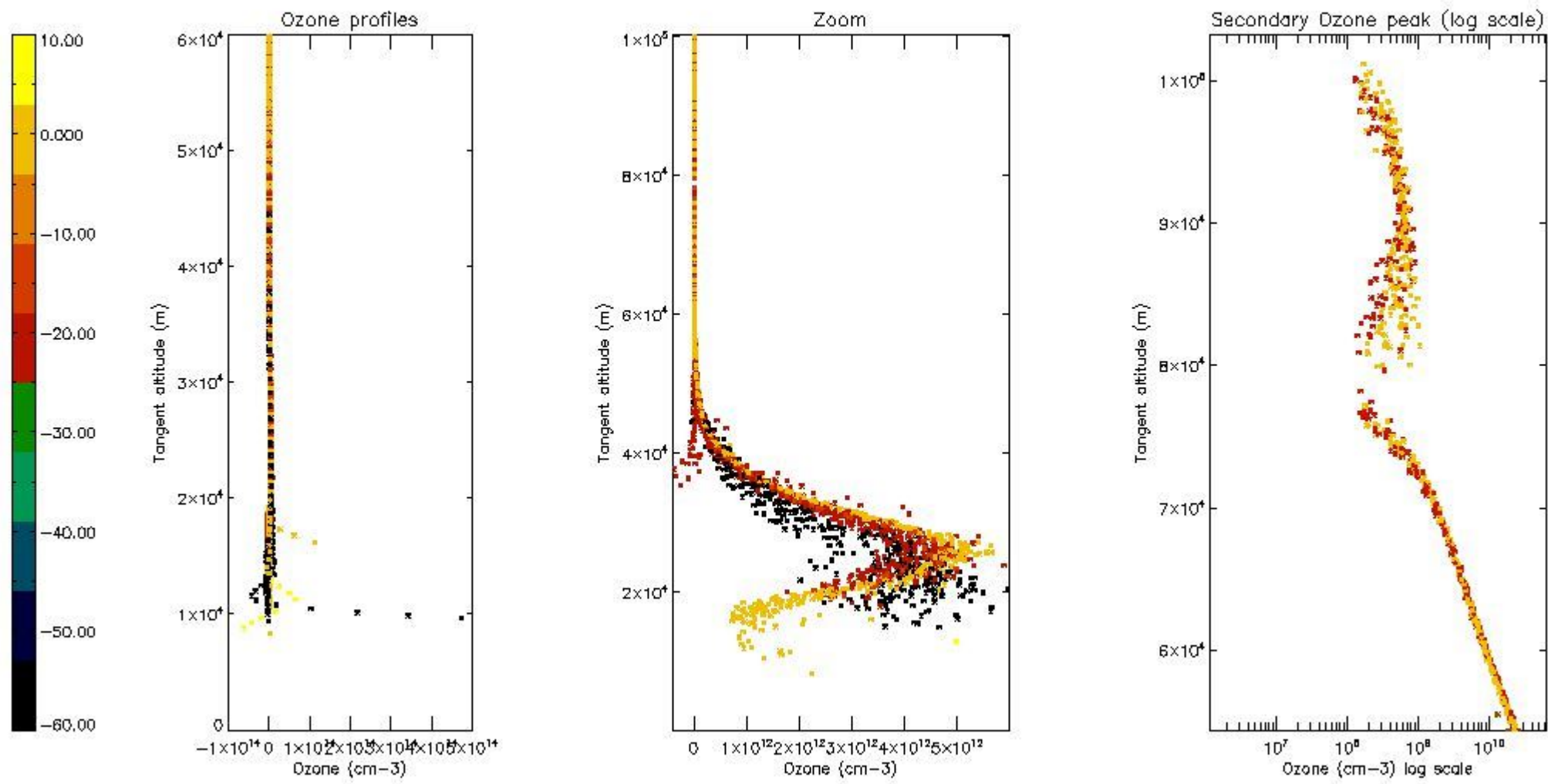
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



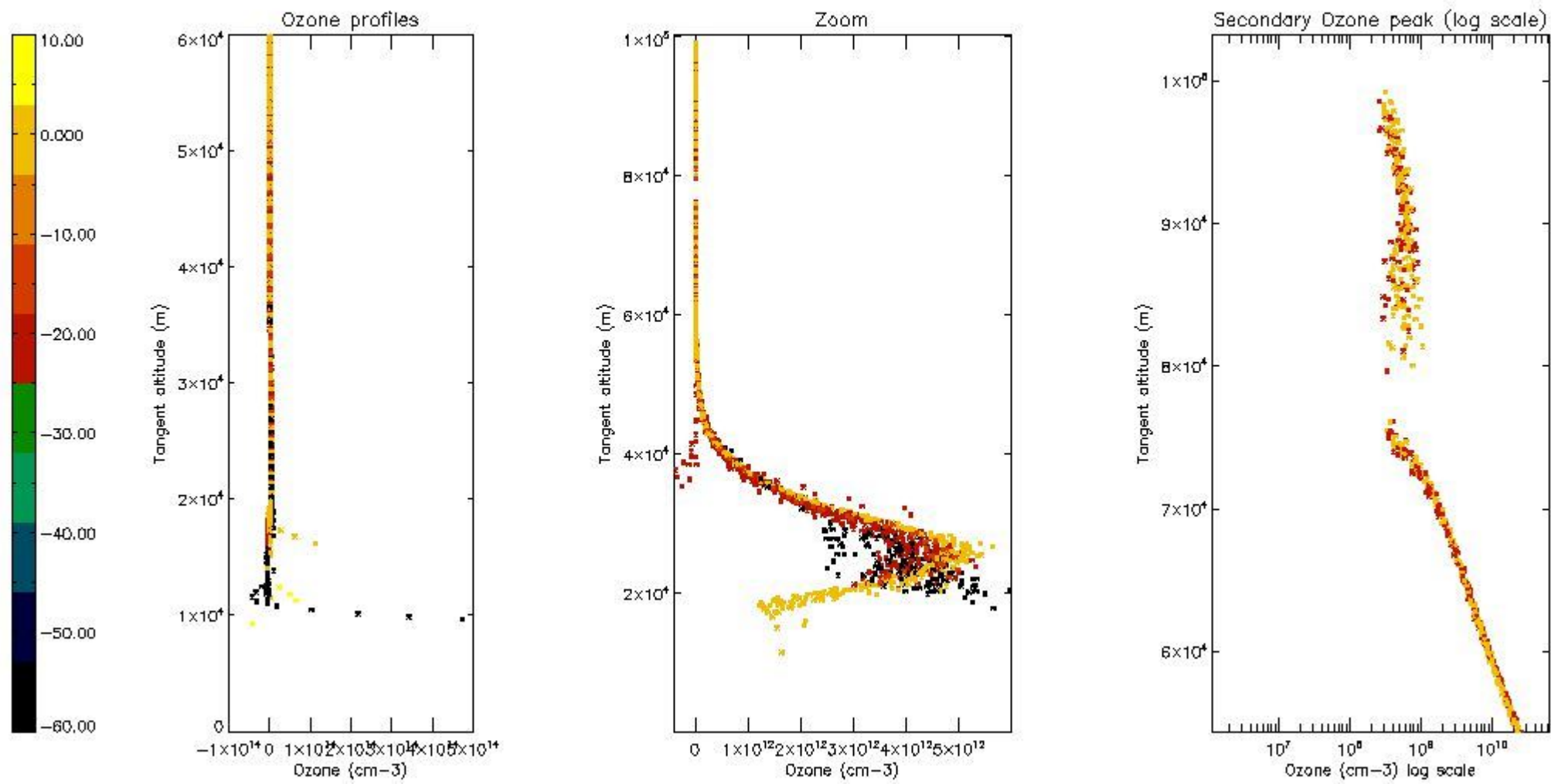
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



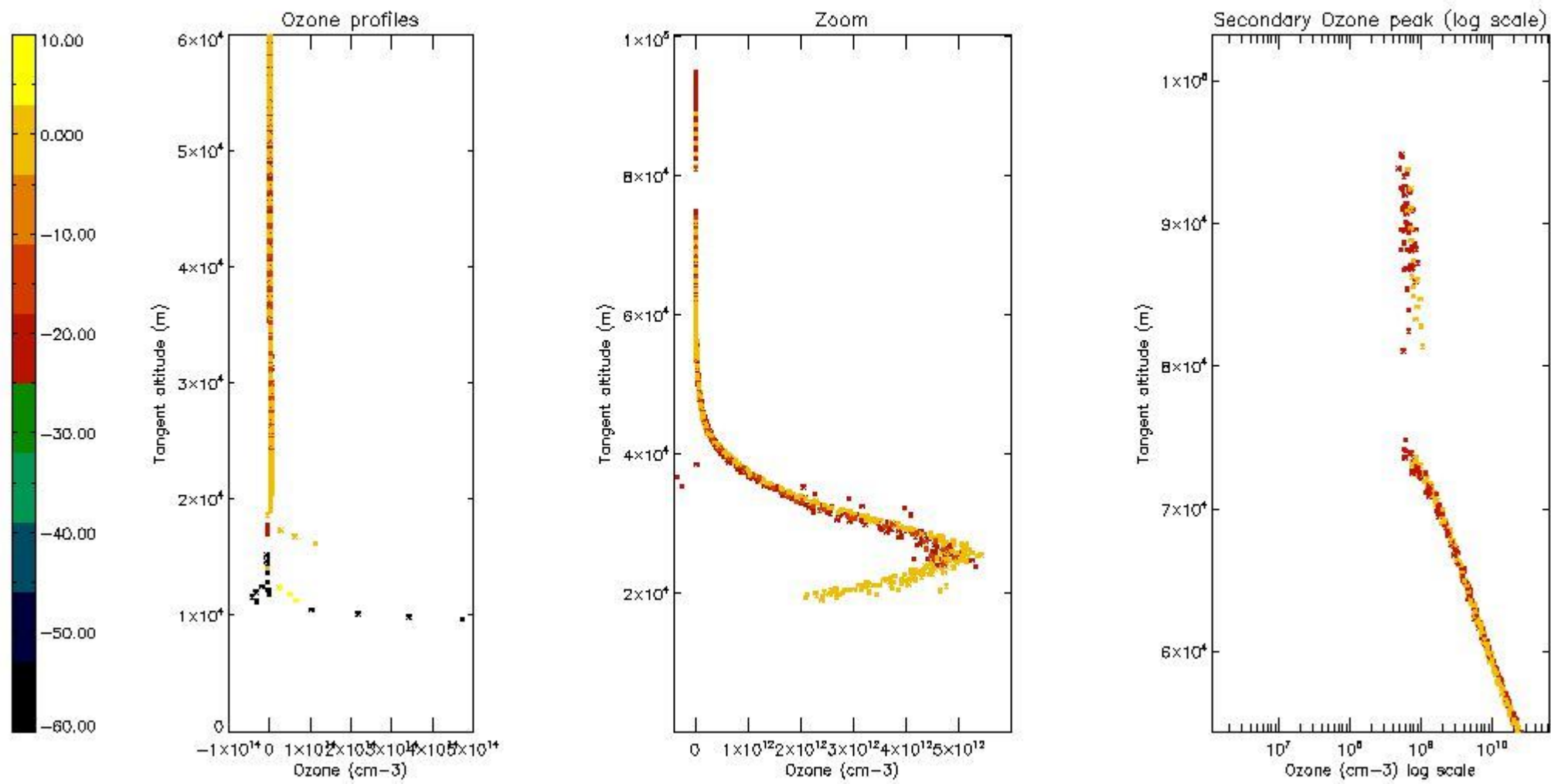
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



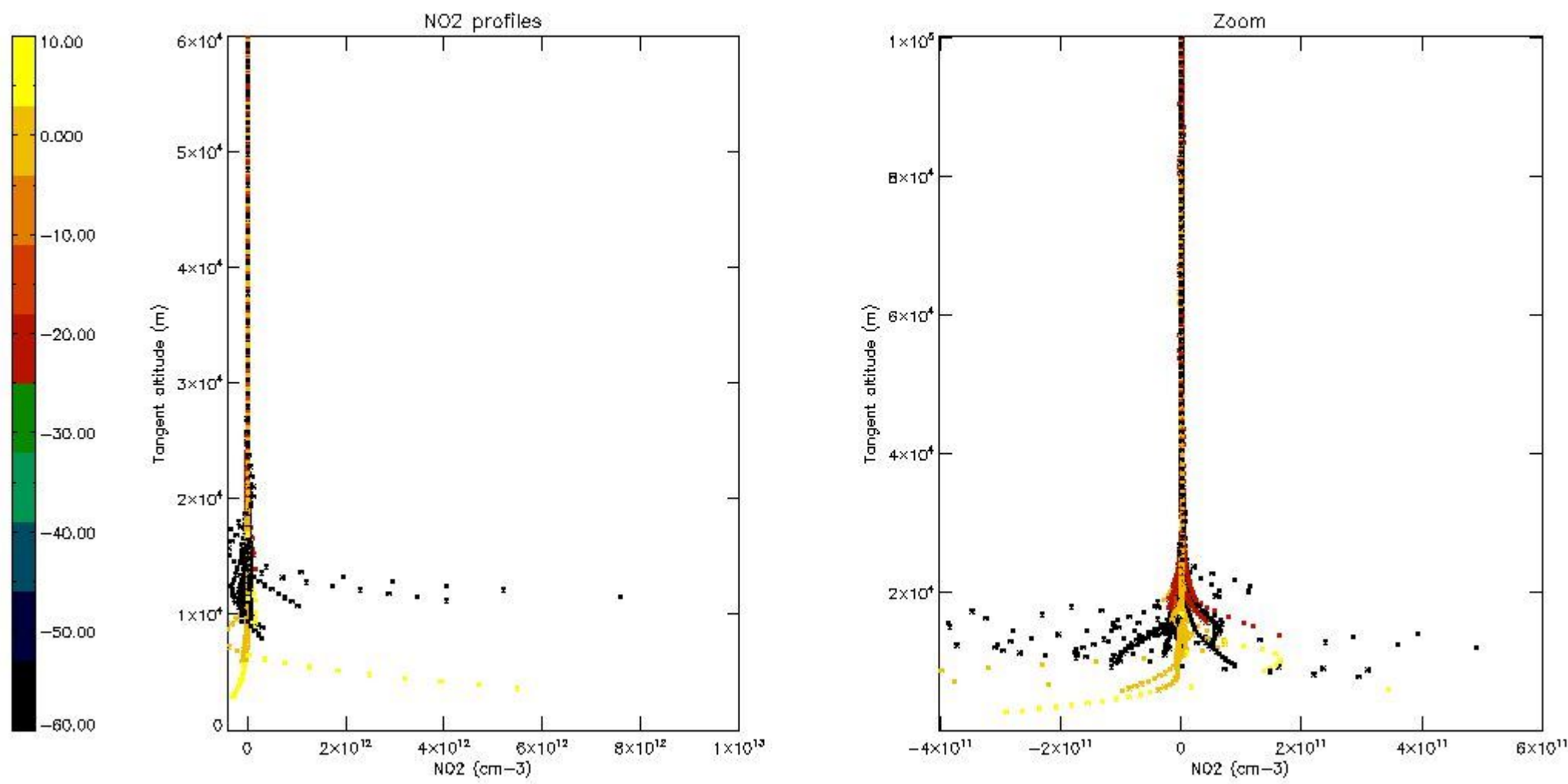
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



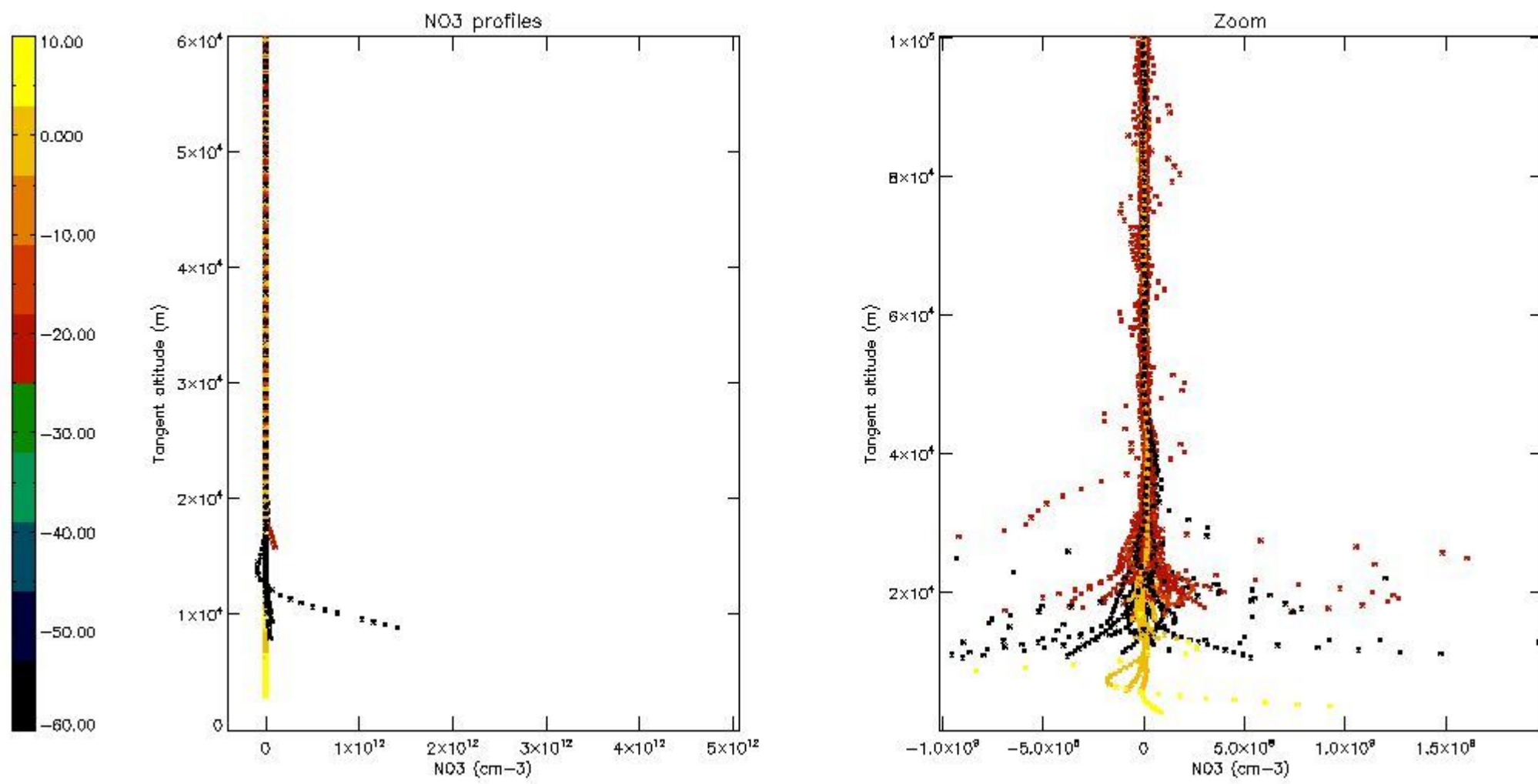
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



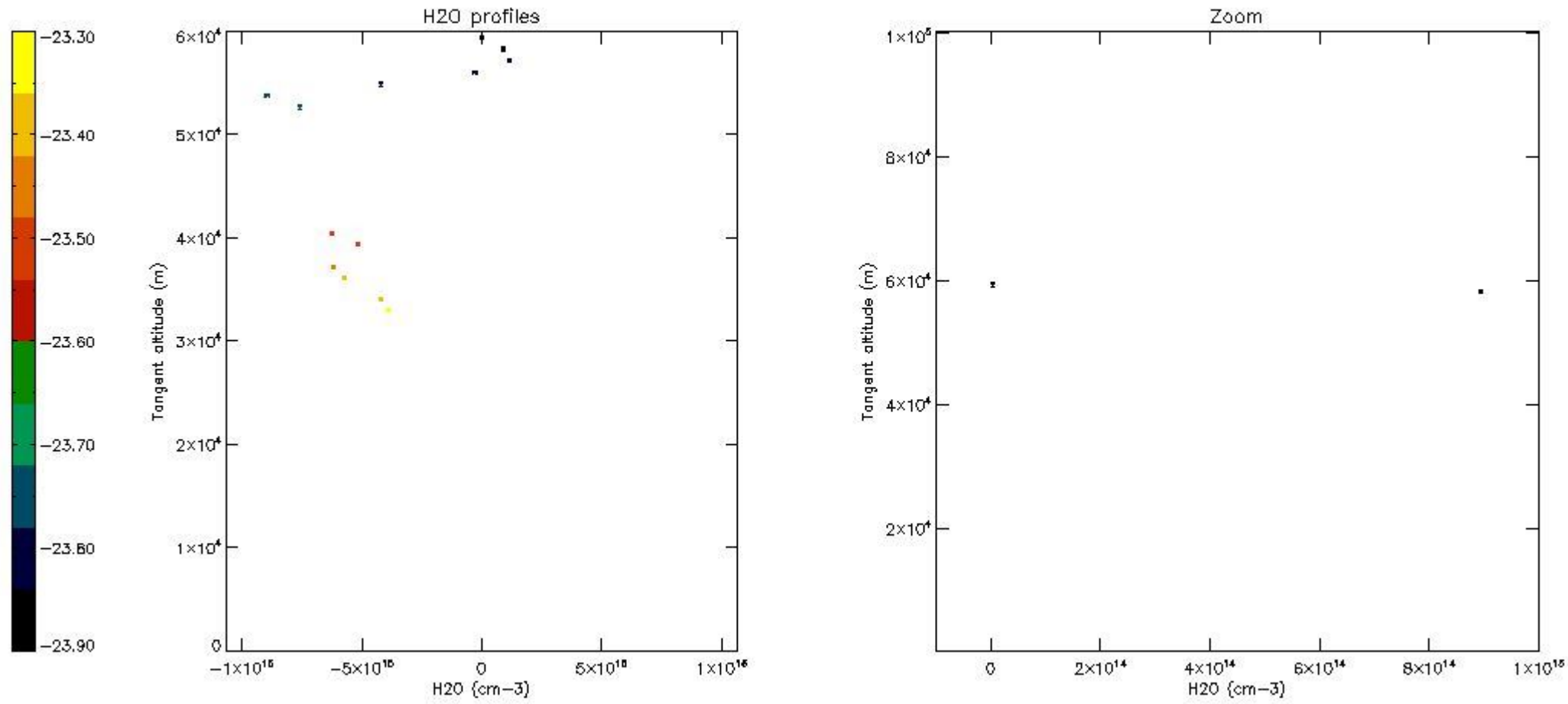
5.7 Plot NO3 profiles for all STD (dark without errors)

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	17-OCT-2010 00:19:46
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	17-OCT-2010 00:19:46
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	17-OCT-2010 00:19:46

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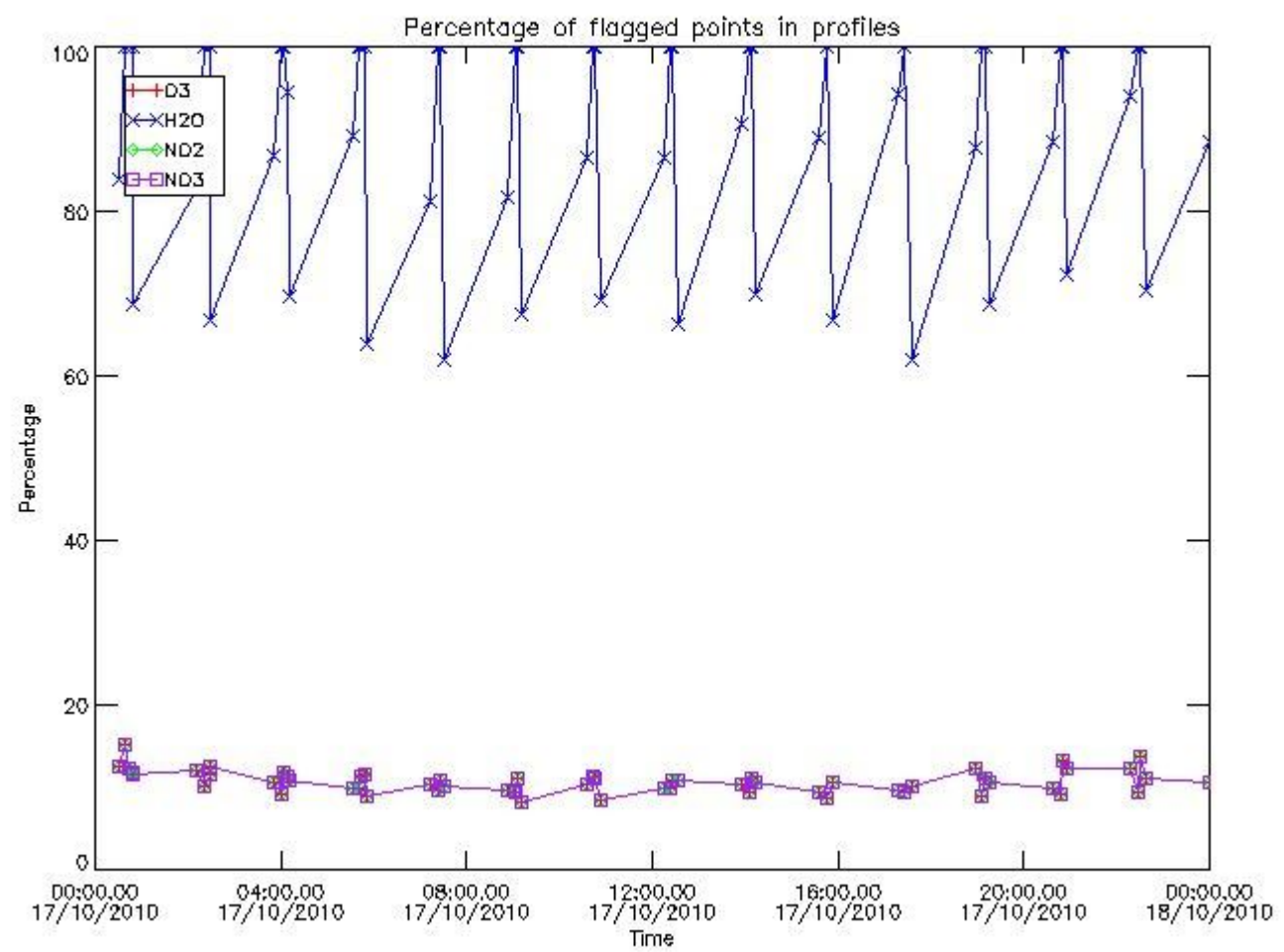
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161	GOM_NL__2PRFIN20101017_204702_000000552093_00486_45129_0175.N1	17-OCT-2010 20:47:02	Dark	55.000	132	15Rho Pup	2.8030	6900.0	110	45129	No
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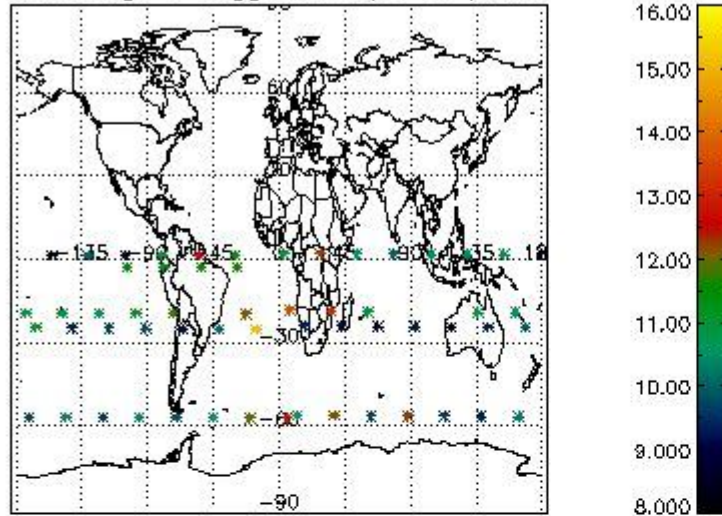
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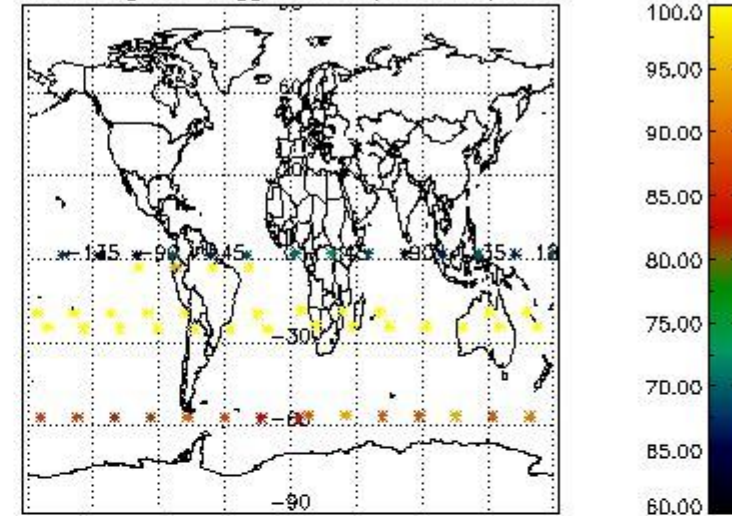


3.2 Plot quality information per product (world map)

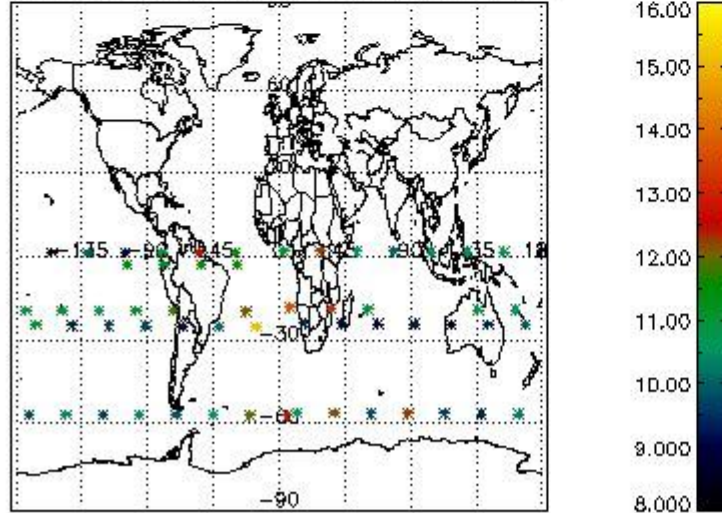
Percentage of flagged data per O3 profile



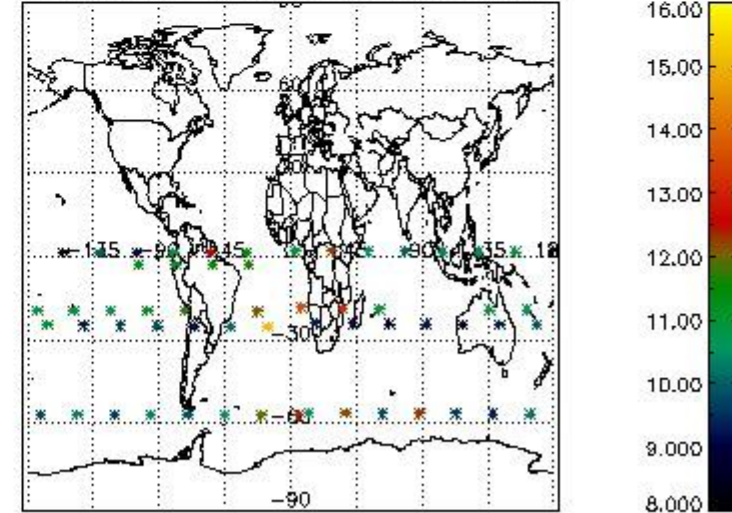
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

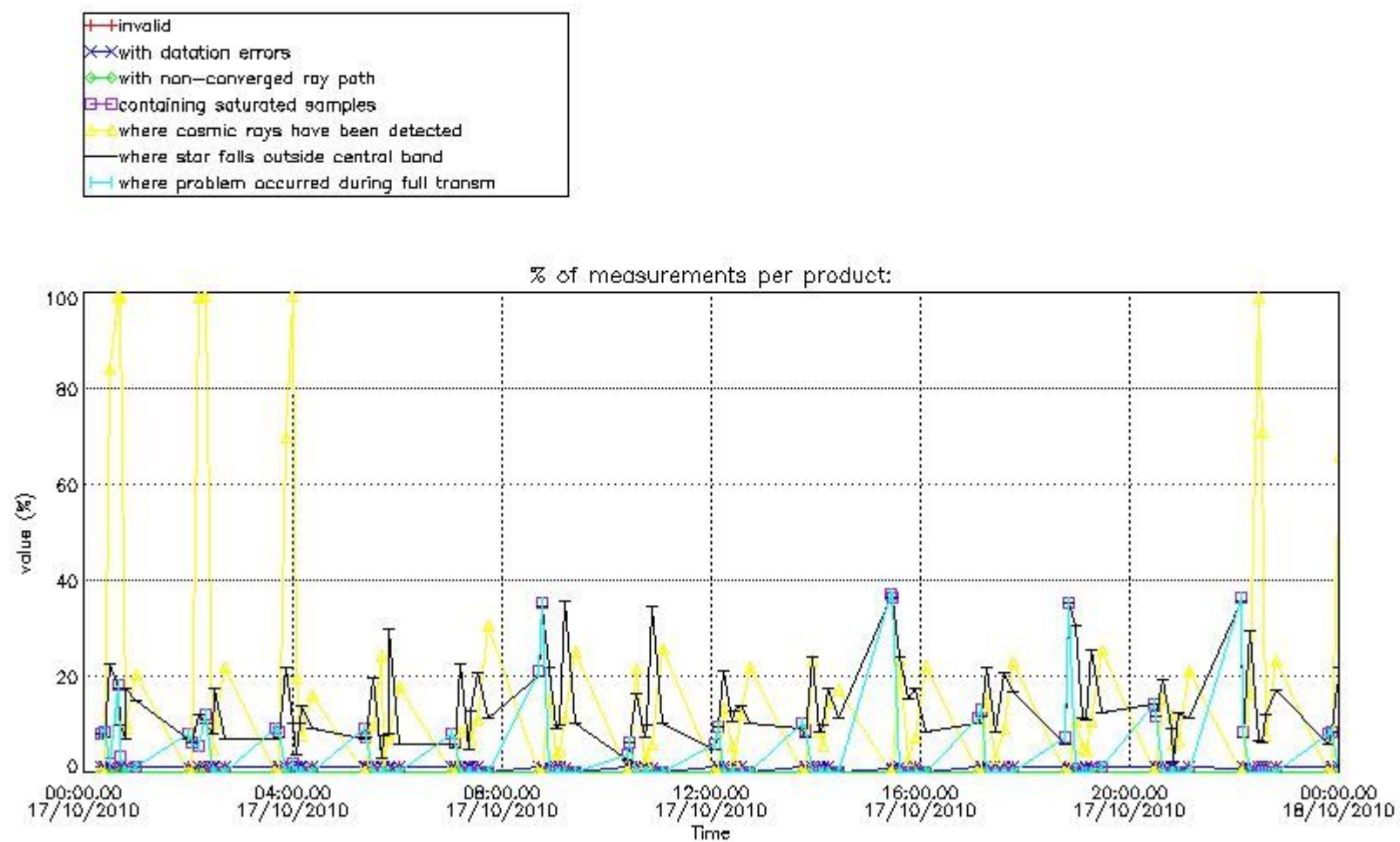


4. Level 1 quality information per product

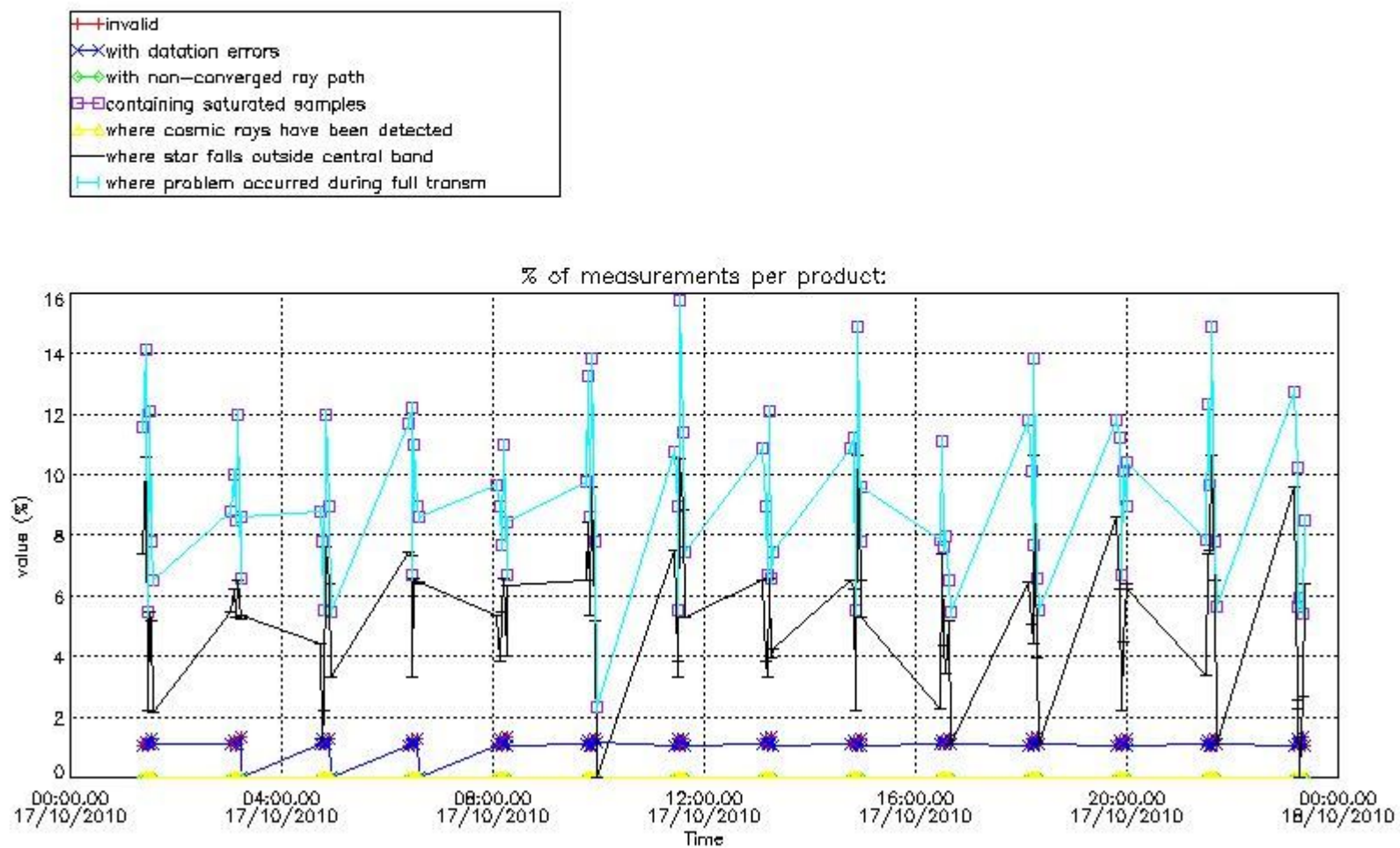
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



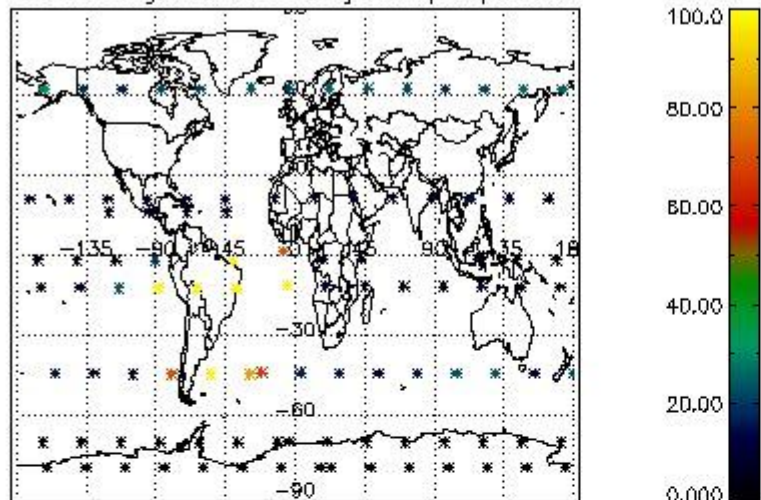
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



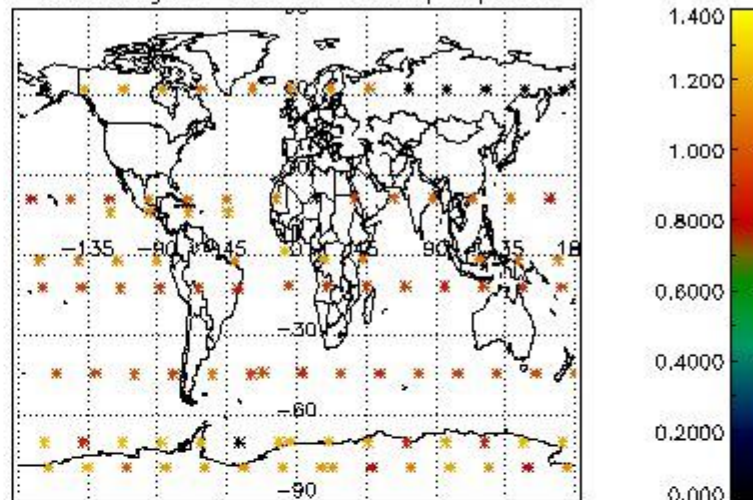
4.2 Plot quality information per product coming from level 1b processing (world map)

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

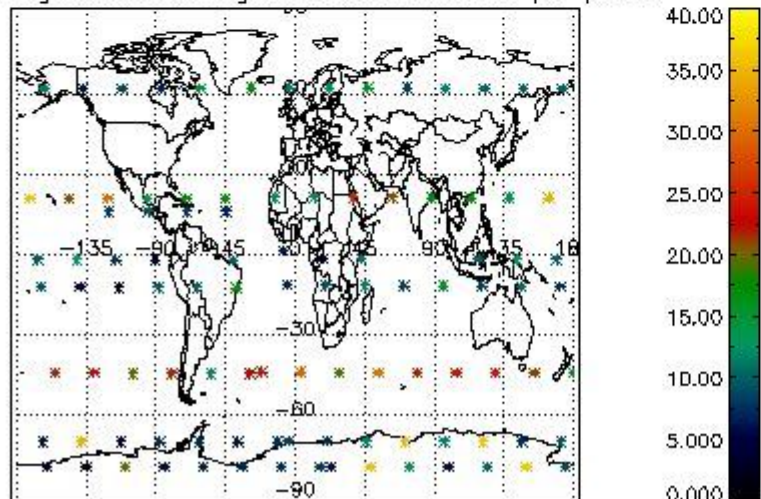
Percentage of cosmic ray hits per profile



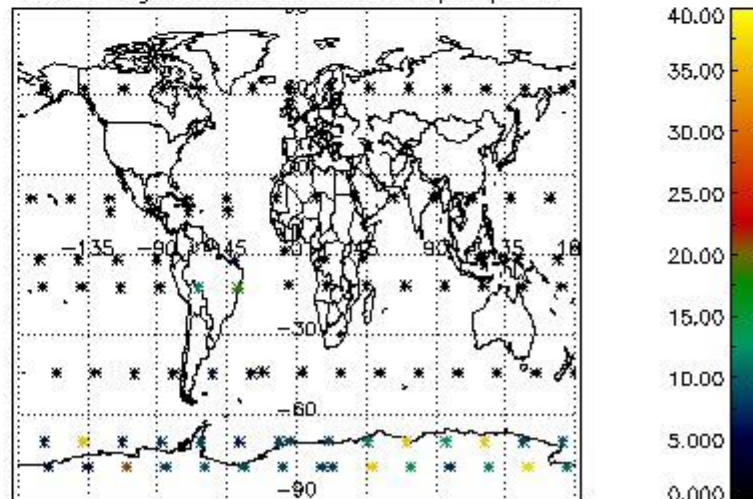
Percentage of datation errors per profile



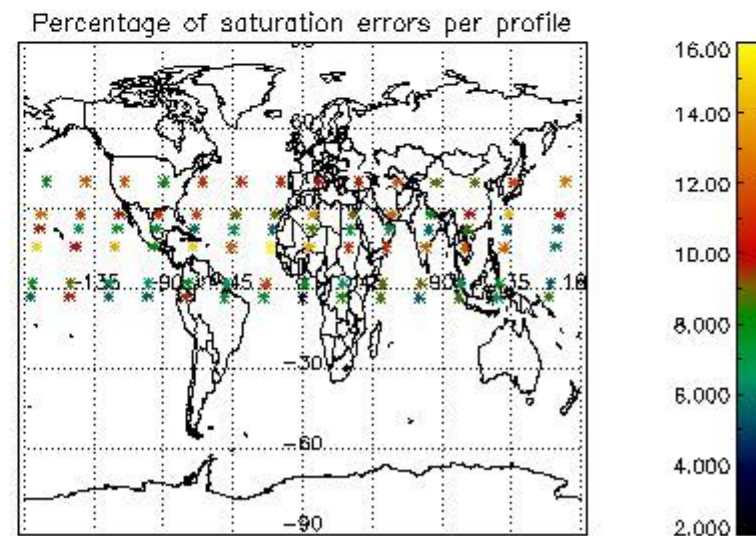
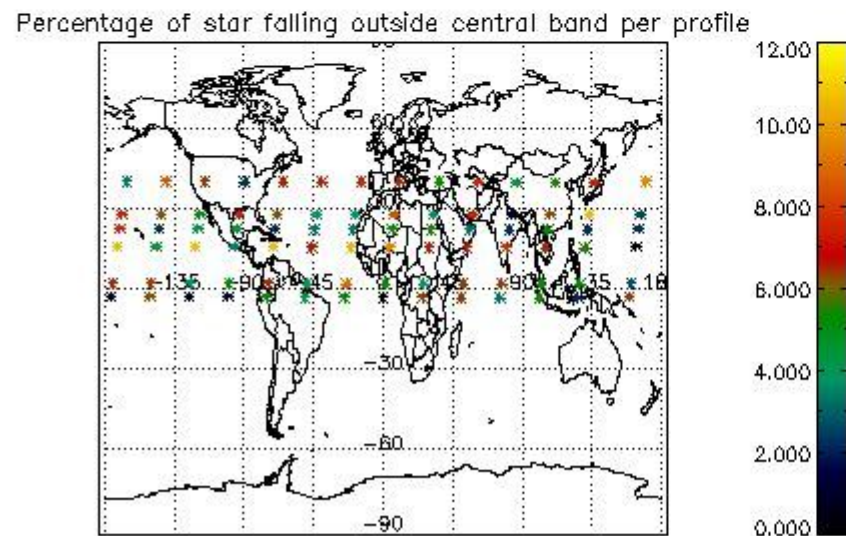
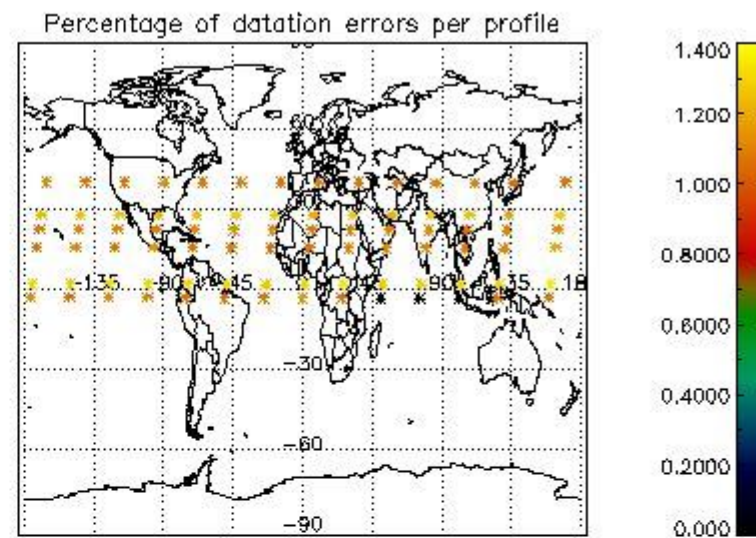
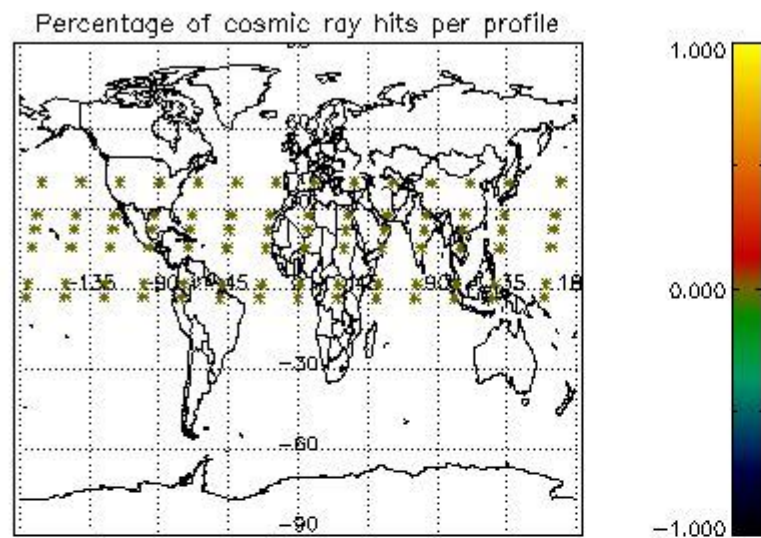
Percentage of star falling outside central band per profile



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

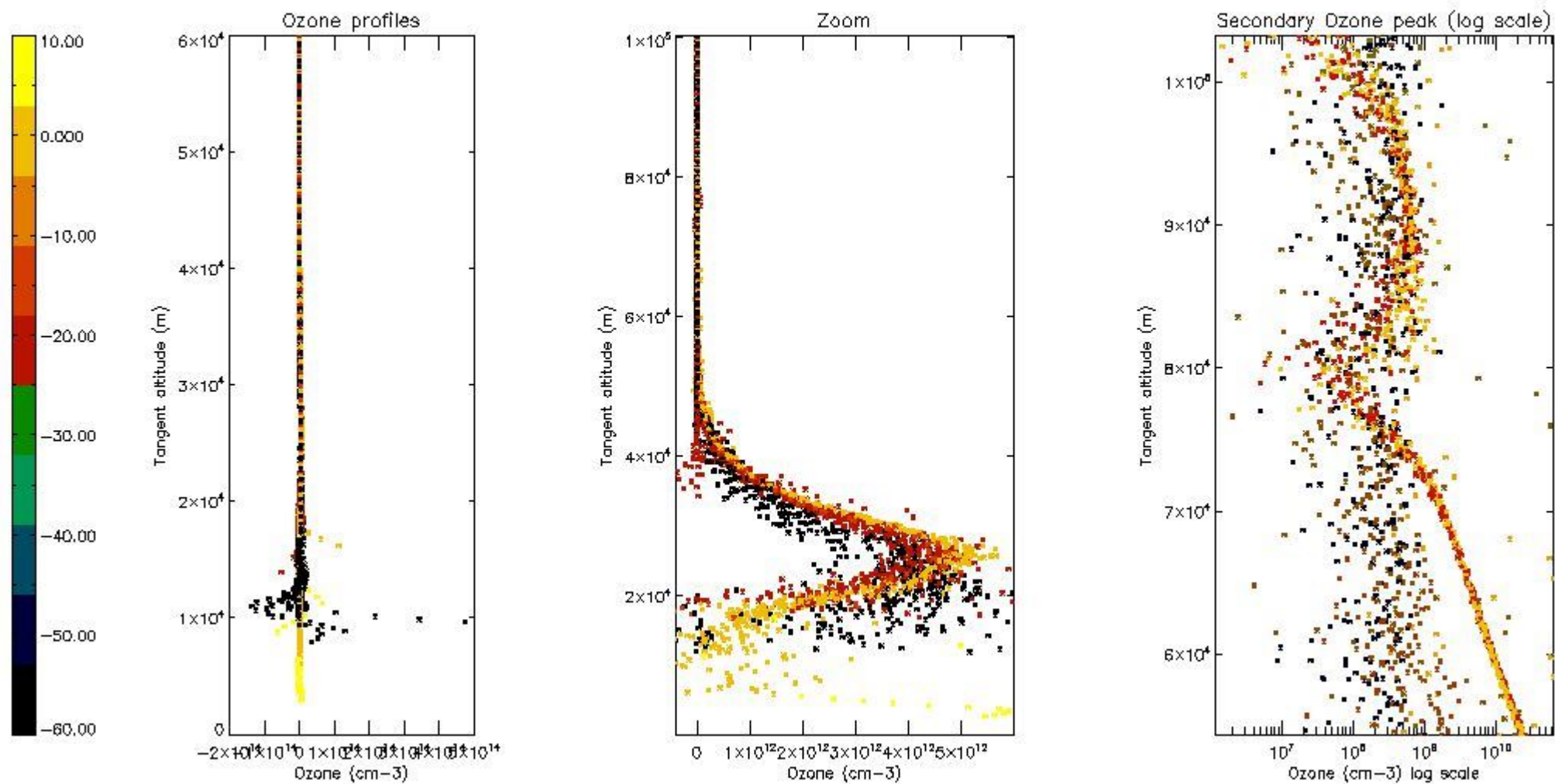
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	35
STD < 20	16

STD < 10	12
STD < 5	8

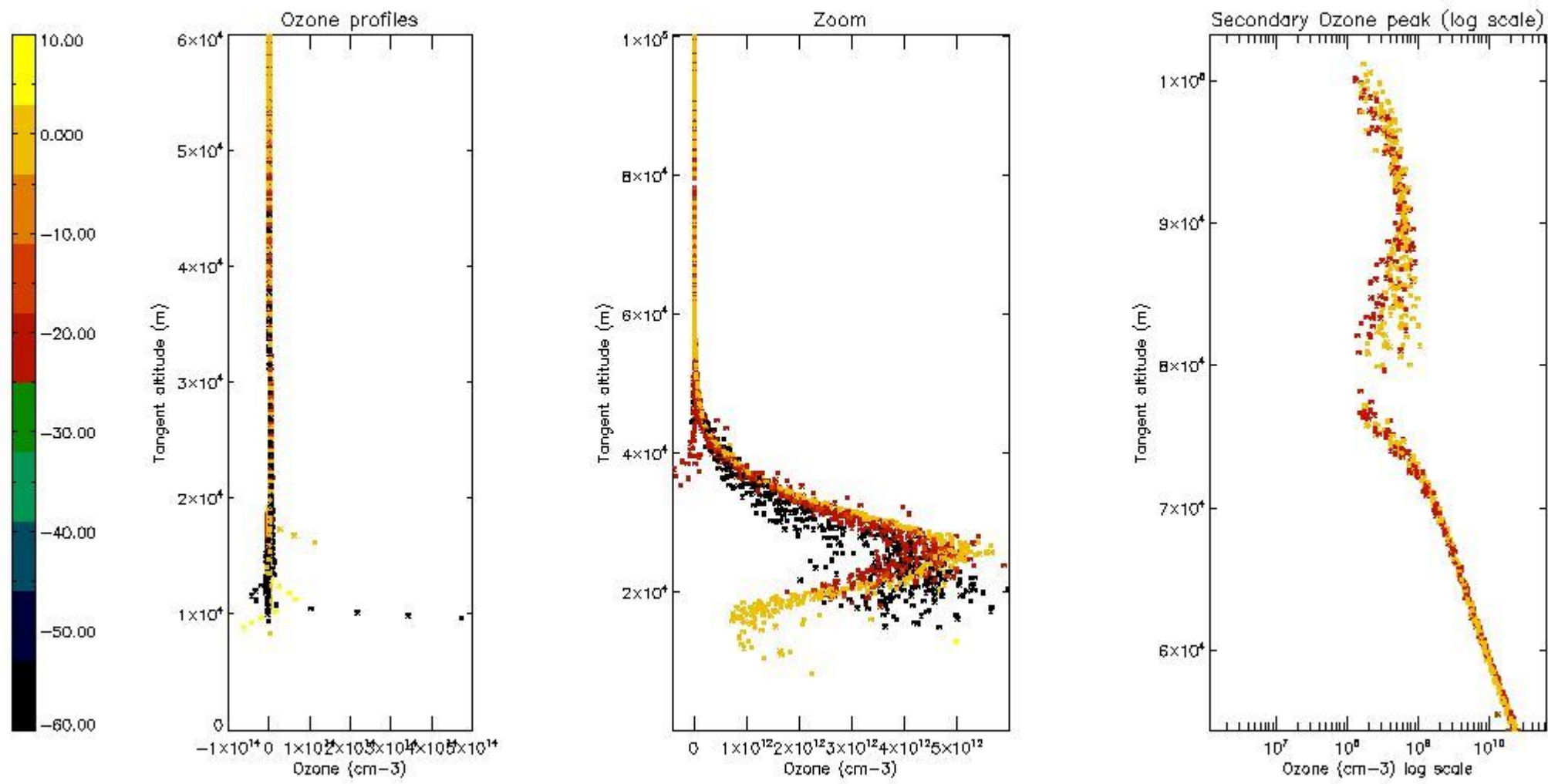
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



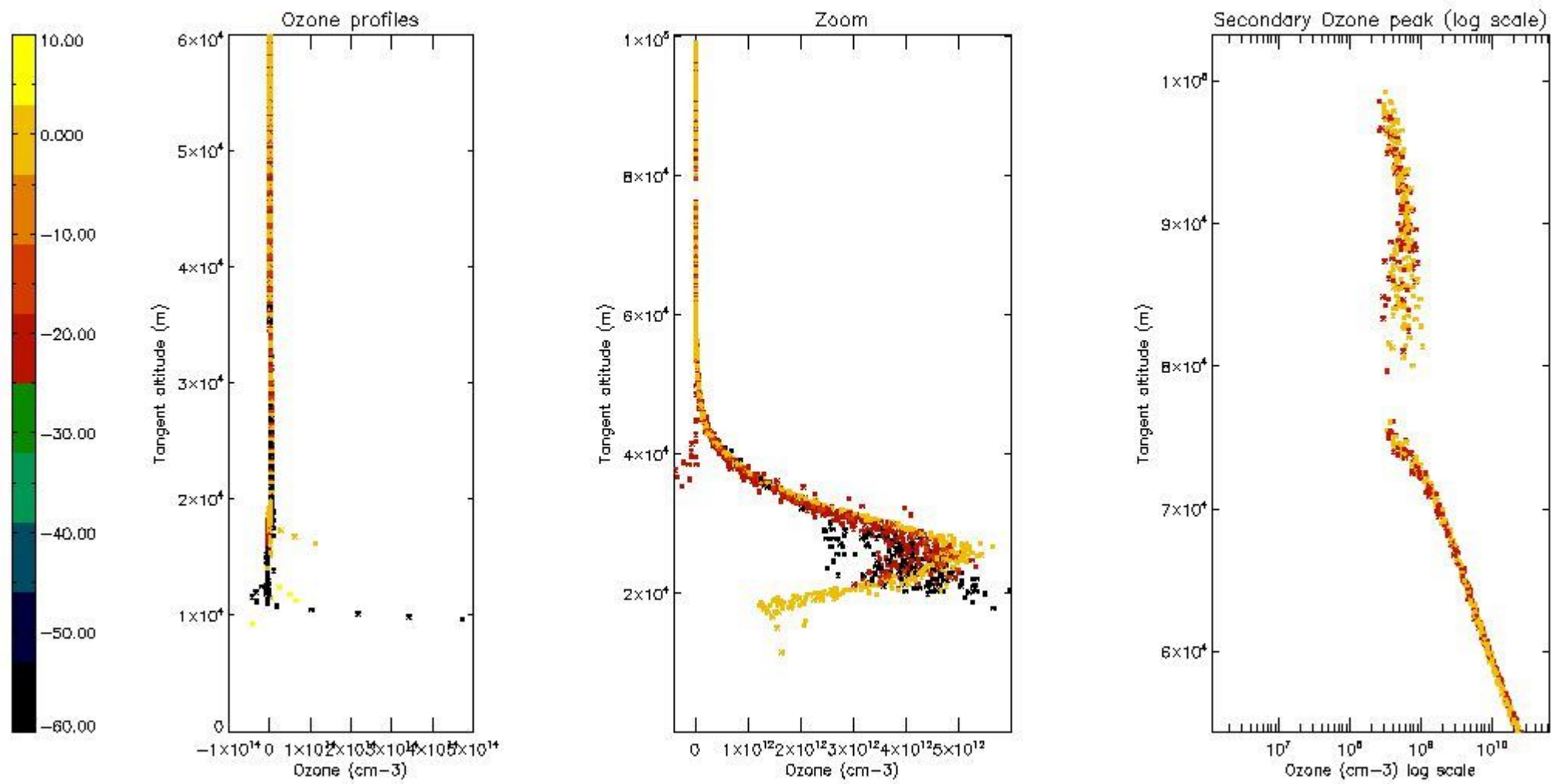
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



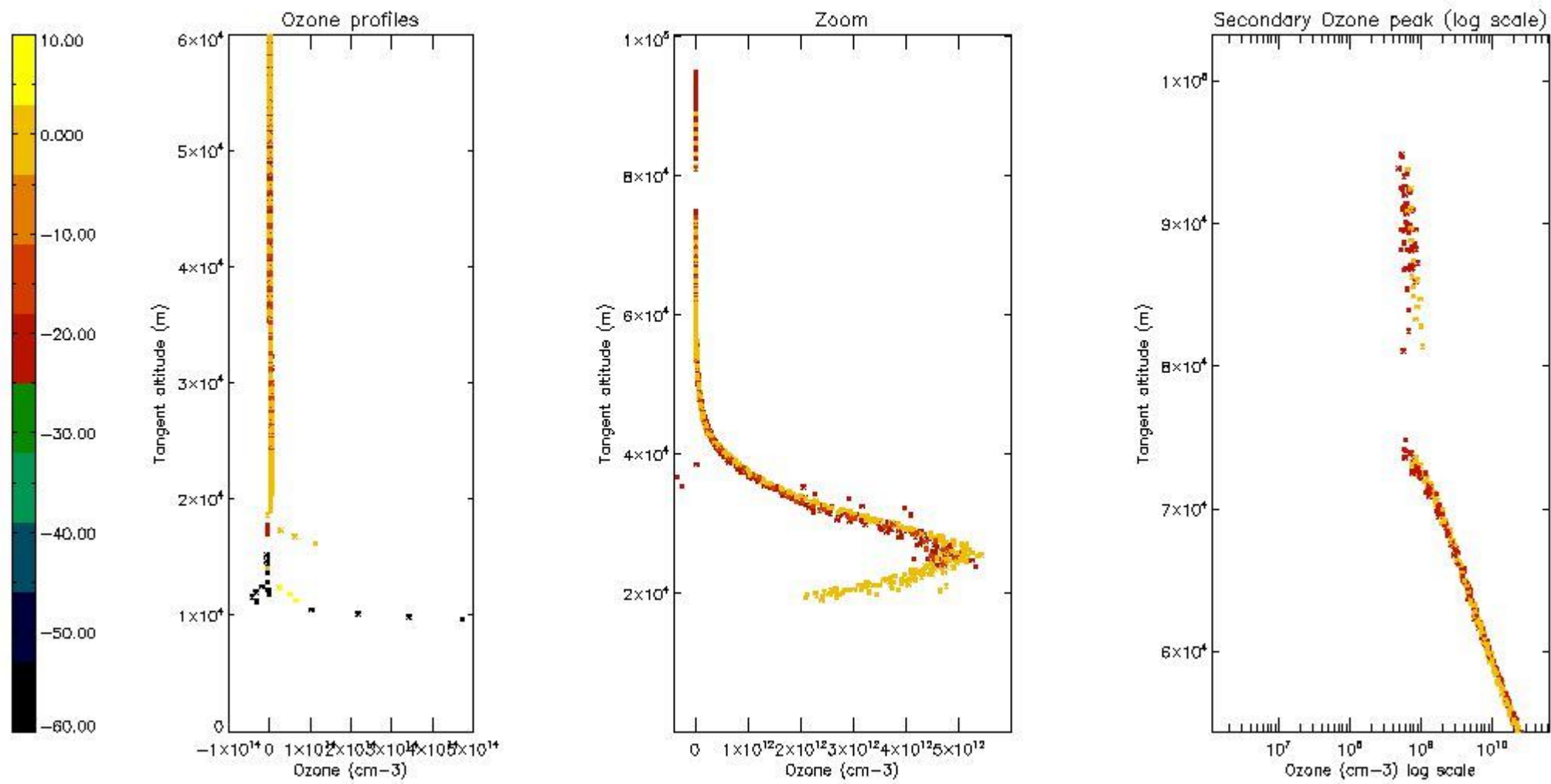
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



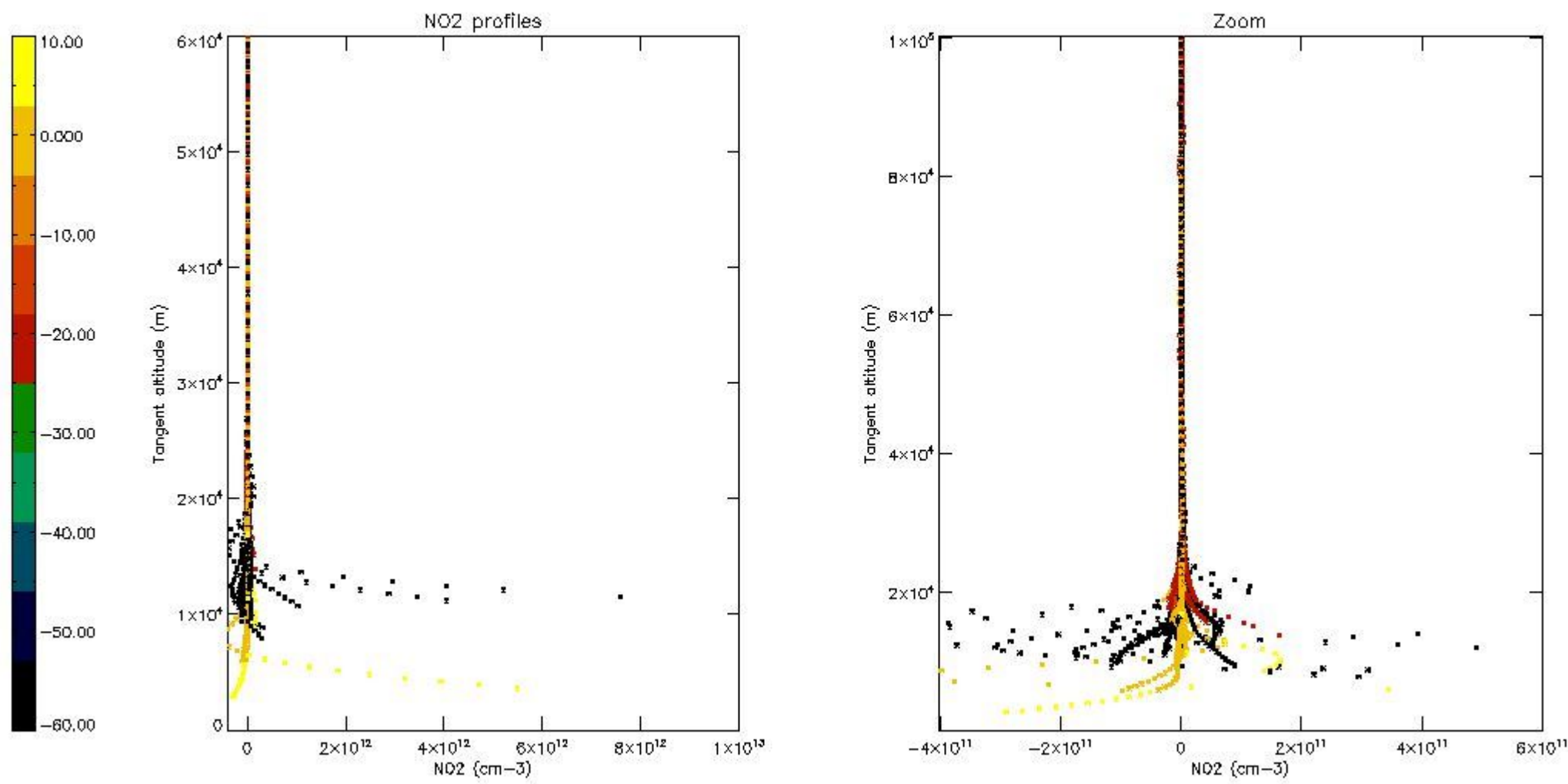
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



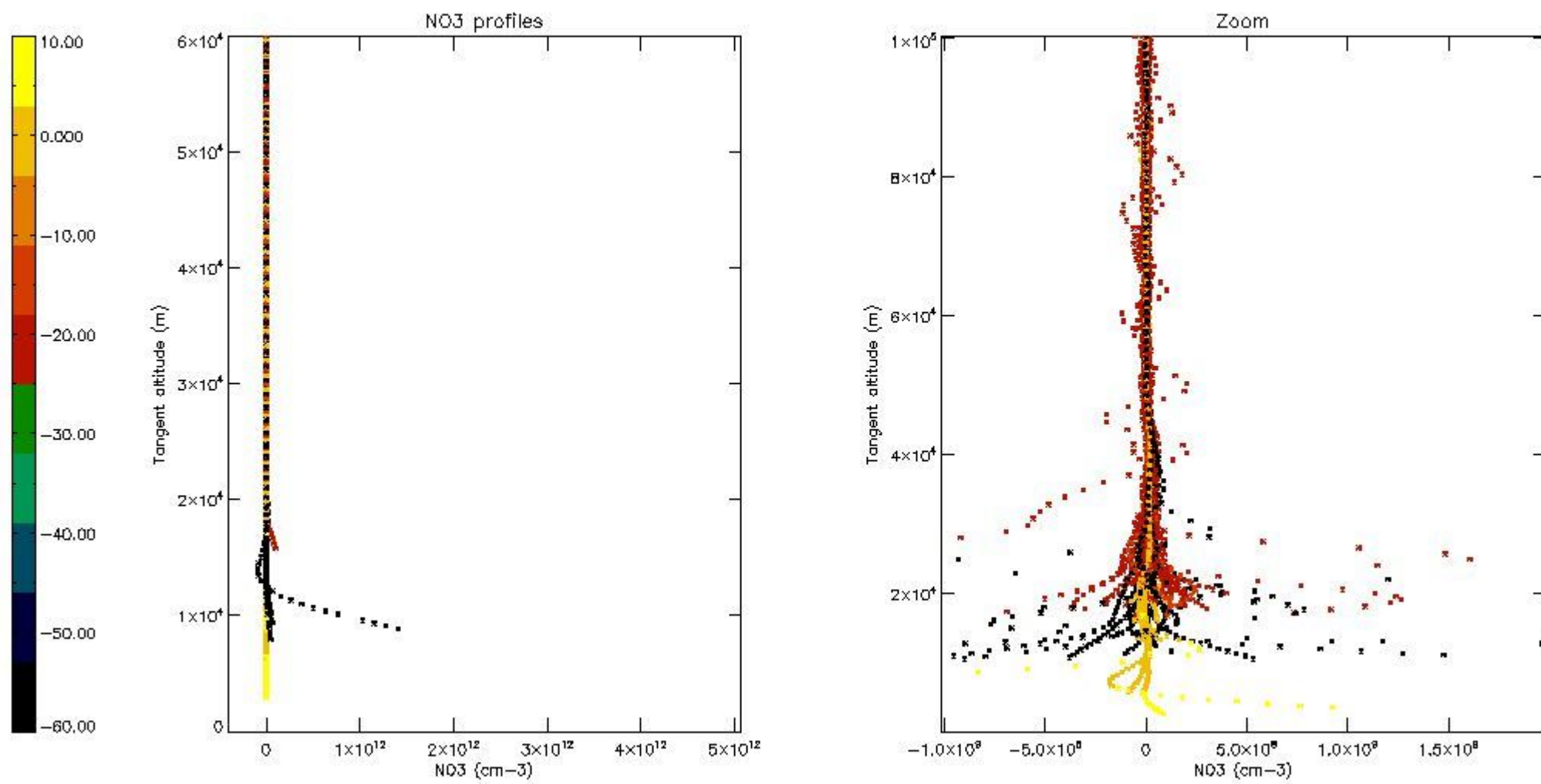
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



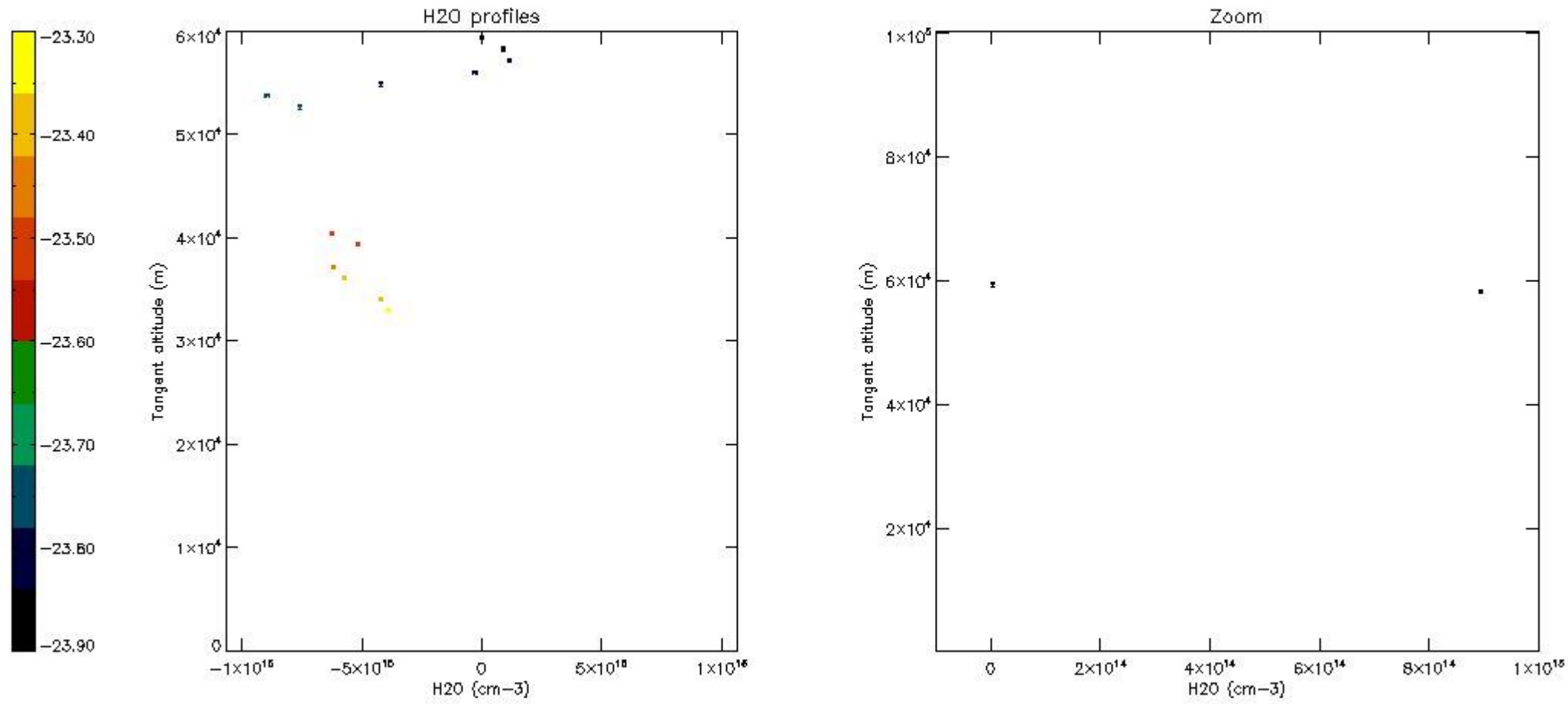
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

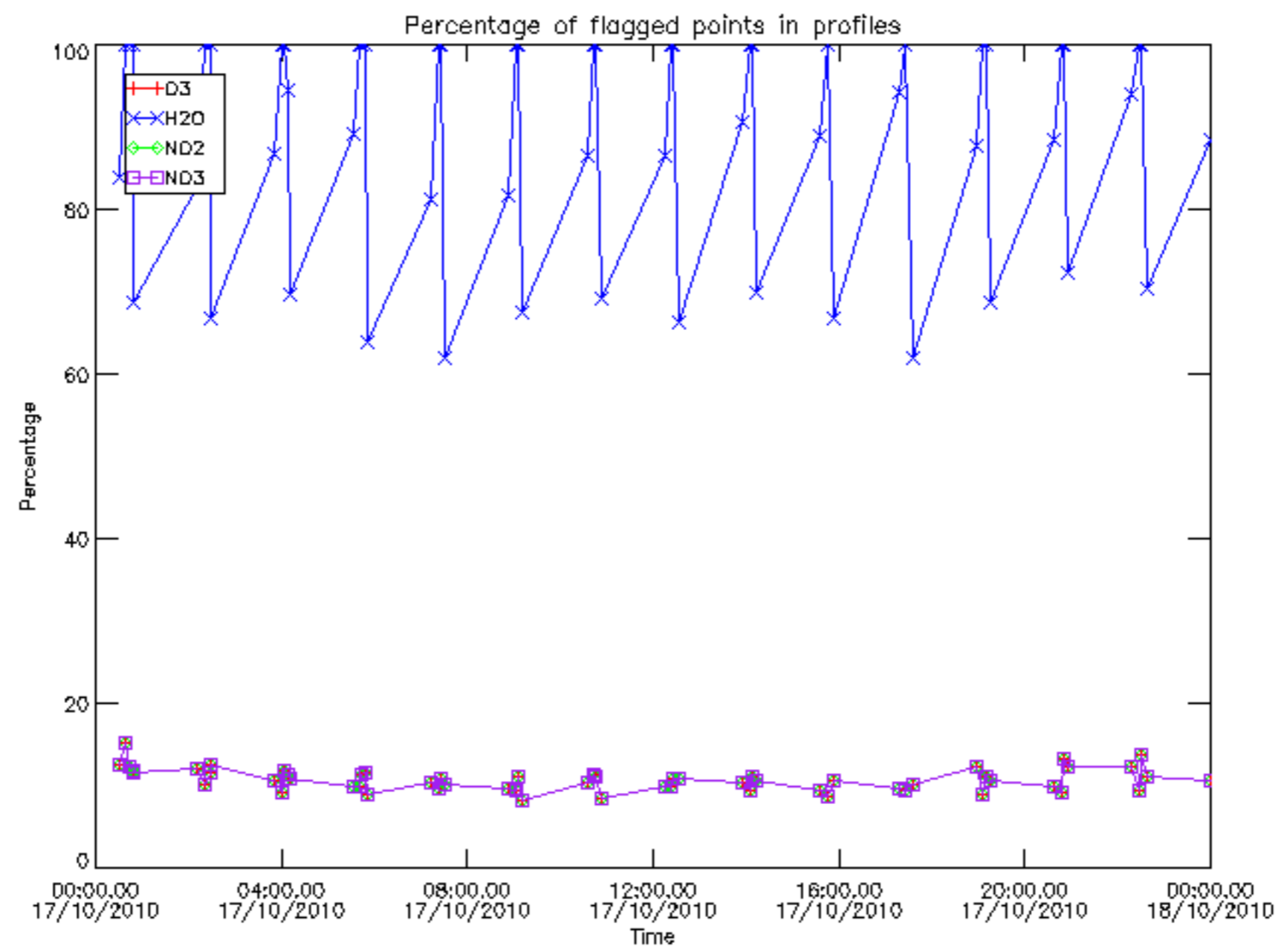
The colorbar represents the latitude.



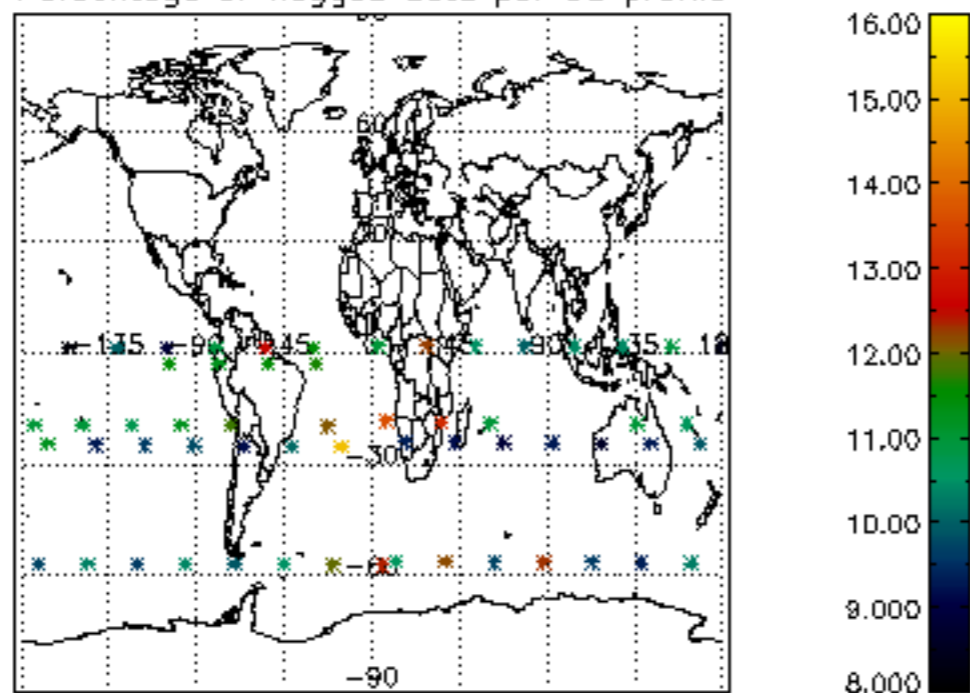
6. Auxiliary Data Files used for the production reported in section 2

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.

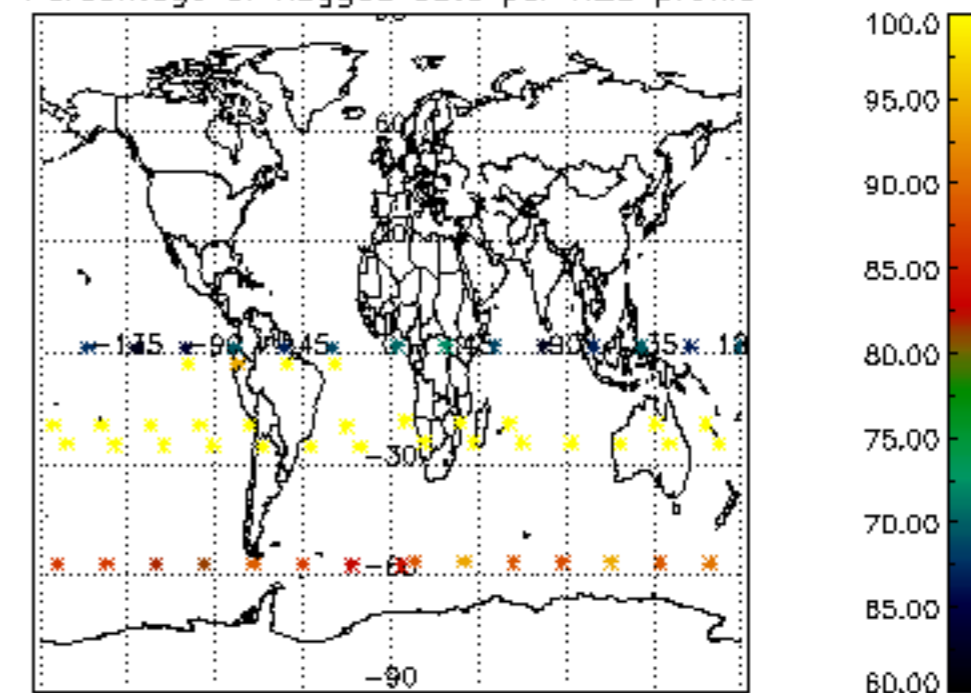
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	17-OCT-2010 00:19:46
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	17-OCT-2010 00:19:46
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	17-OCT-2010 00:19:46



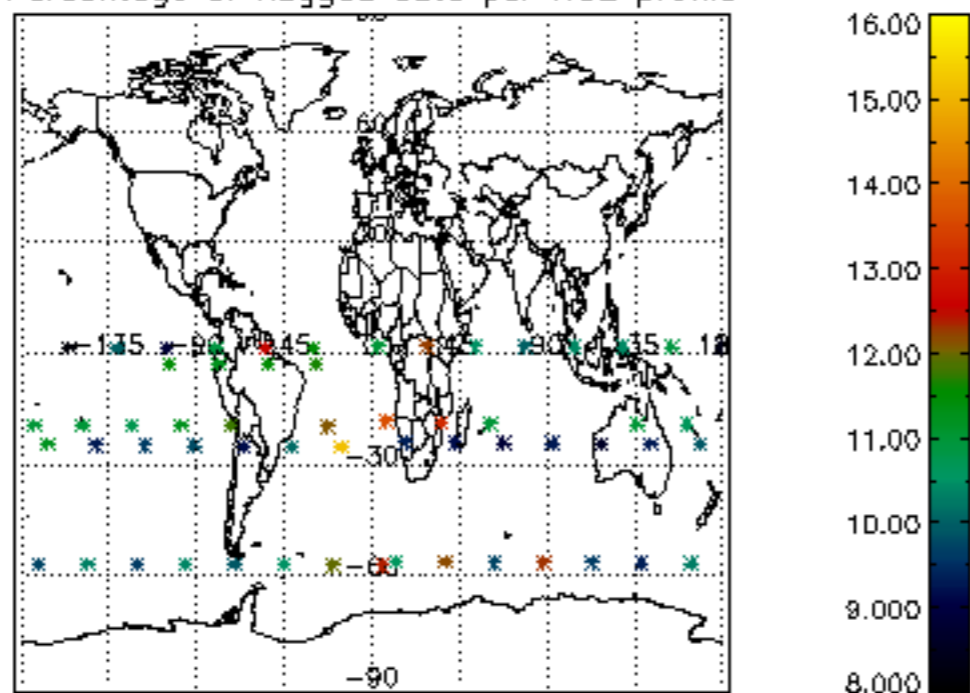
Percentage of flagged data per D3 profile



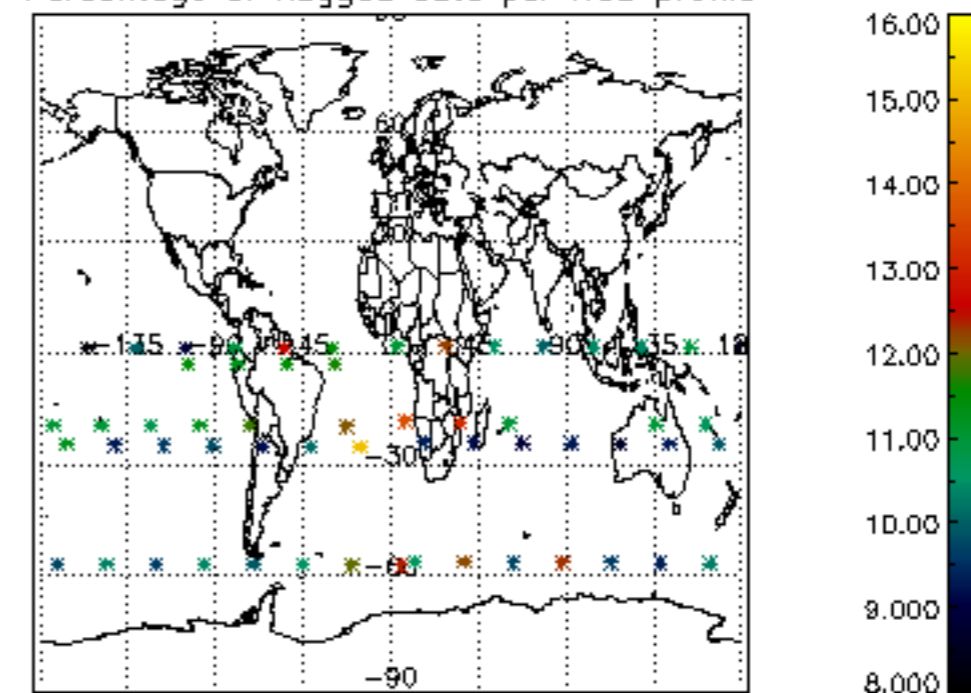
Percentage of flagged data per H2O profile

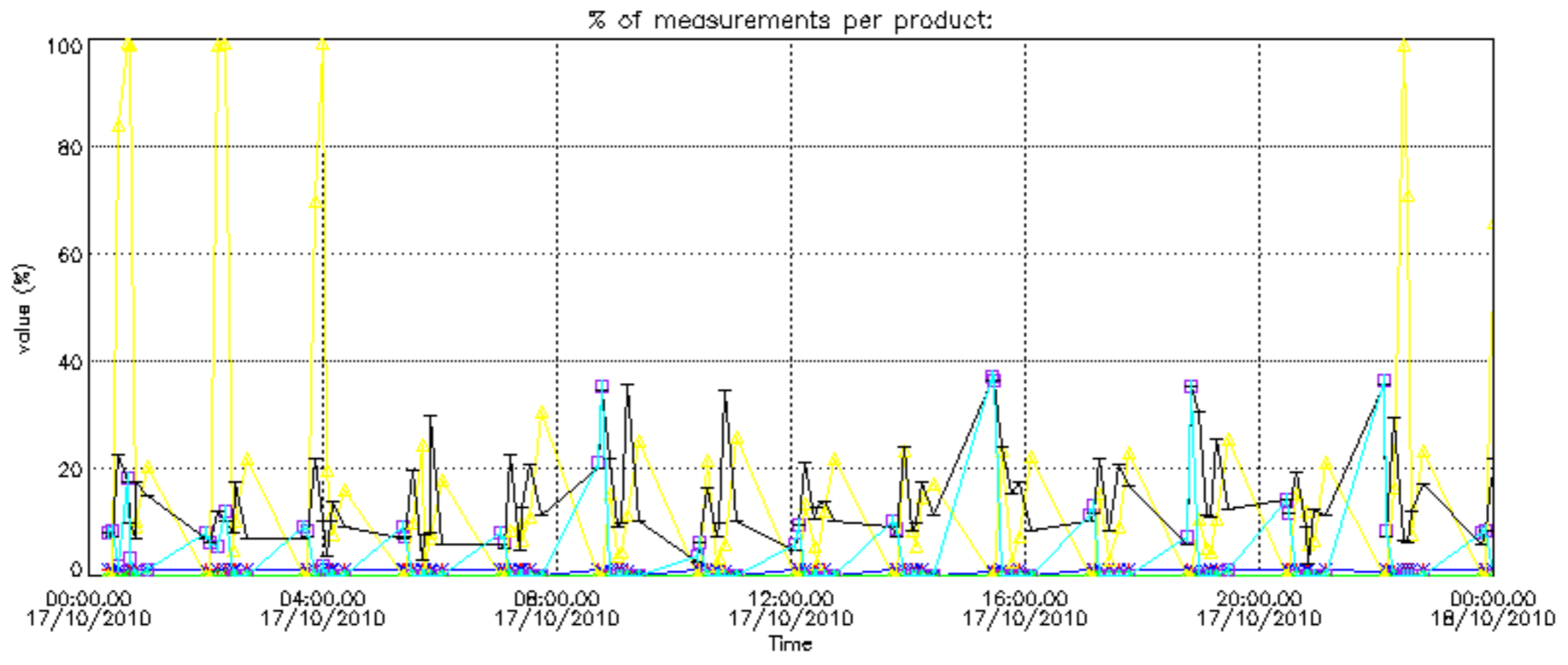


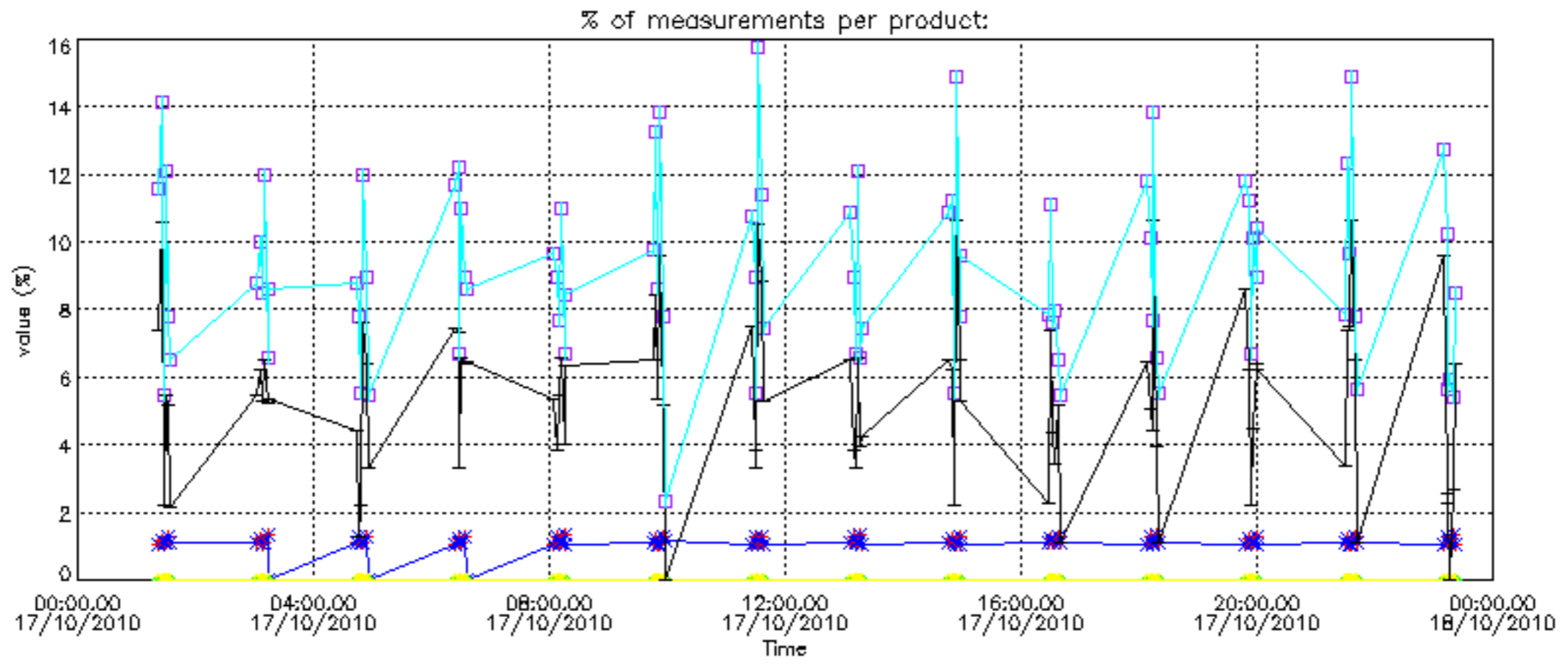
Percentage of flagged data per NO2 profile



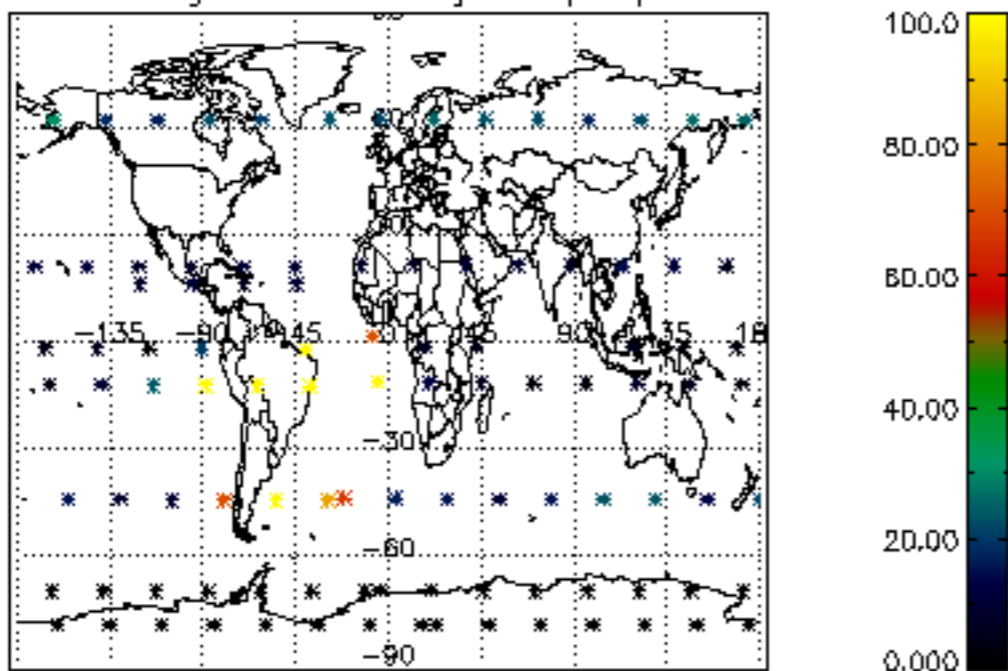
Percentage of flagged data per NO3 profile



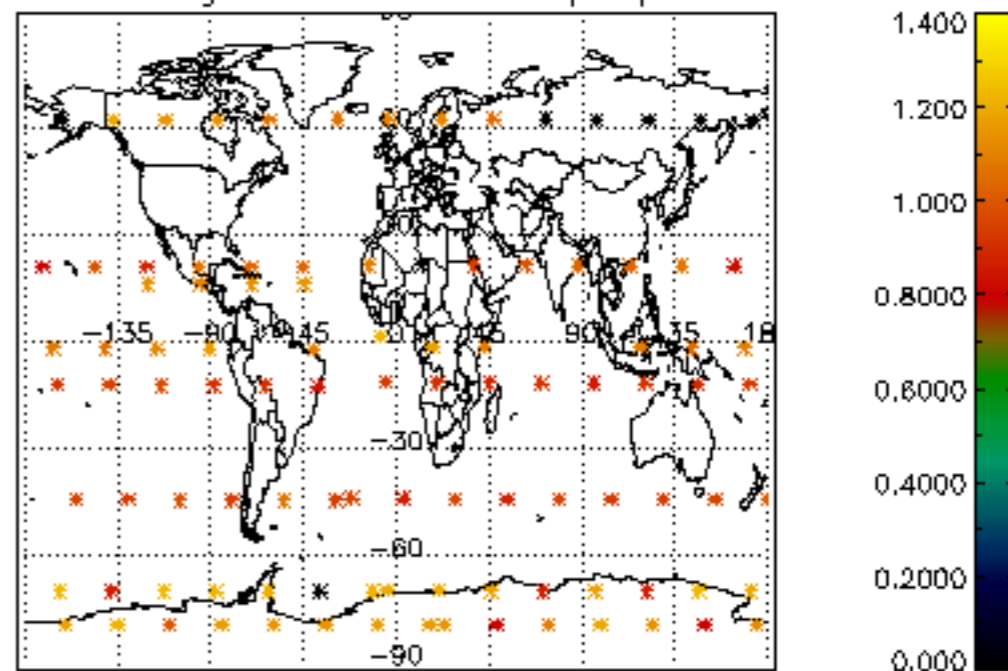




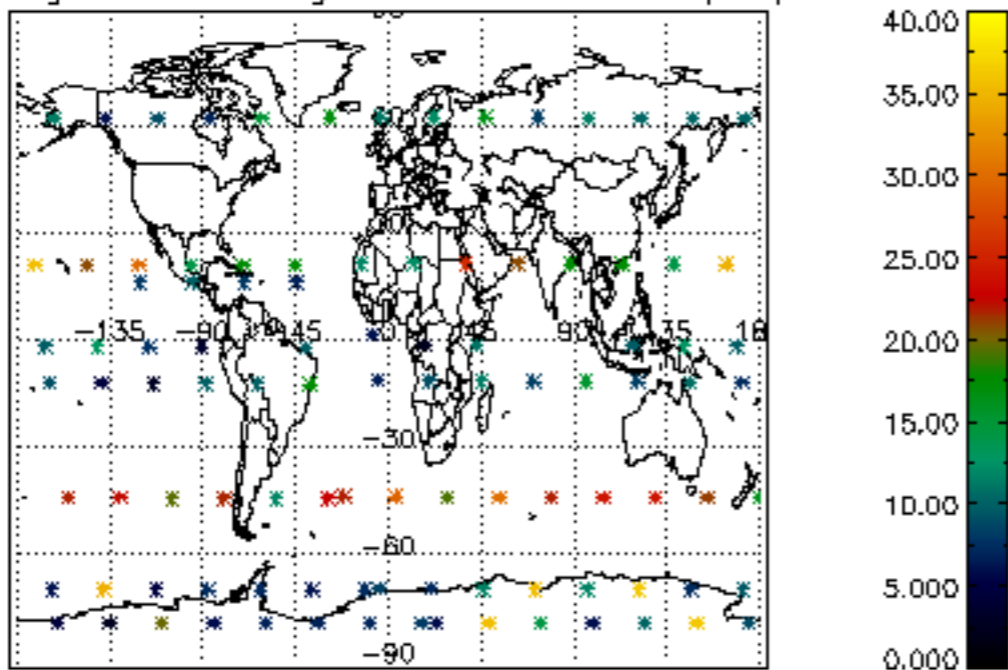
Percentage of cosmic ray hits per profile



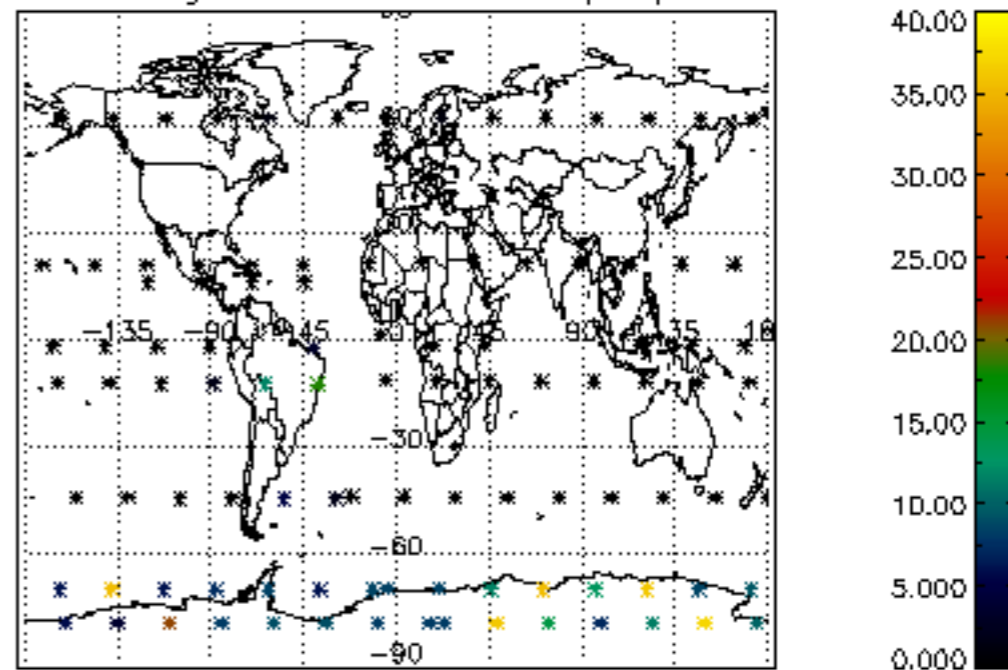
Percentage of datation errors per profile



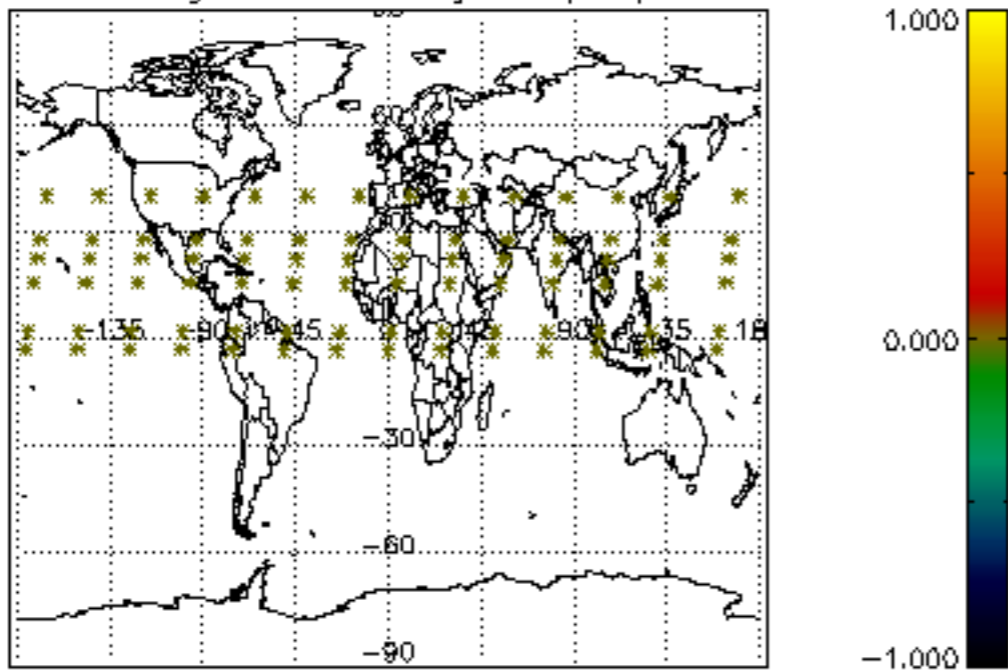
Percentage of star falling outside central band per profile



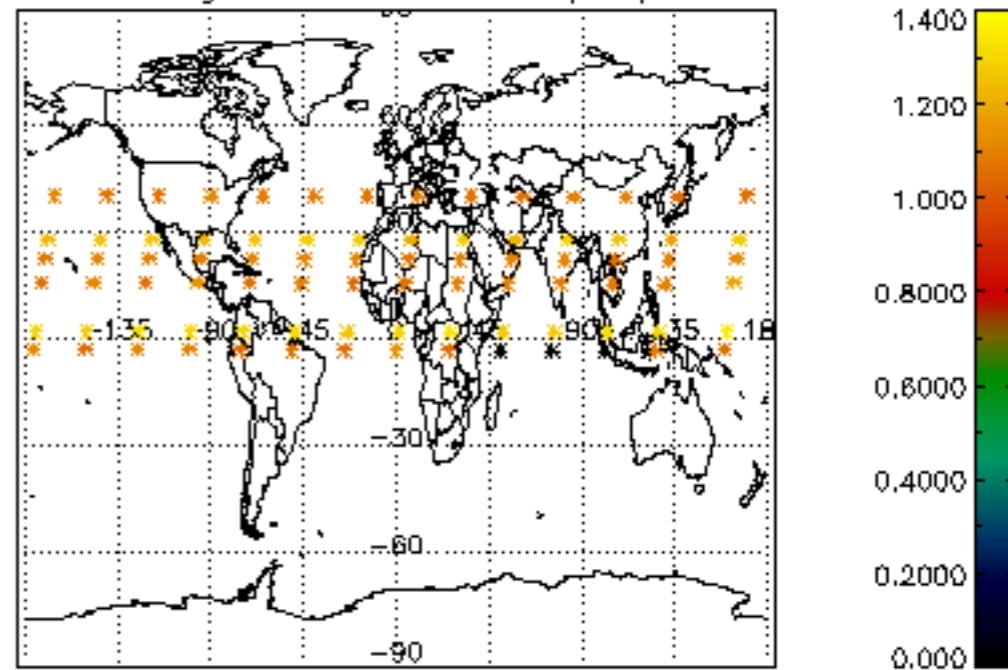
Percentage of saturation errors per profile



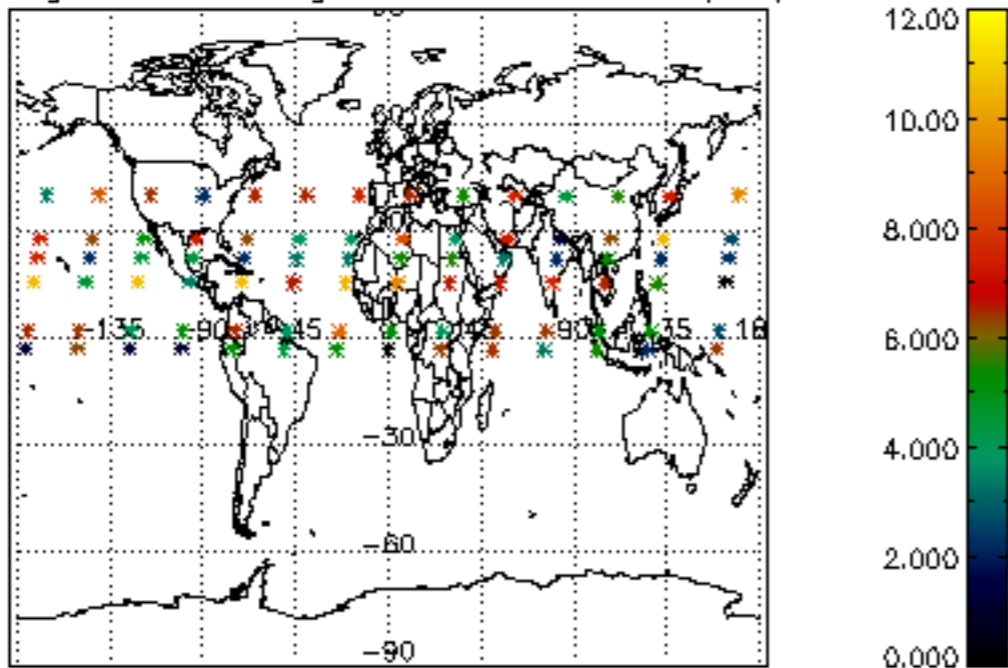
Percentage of cosmic ray hits per profile



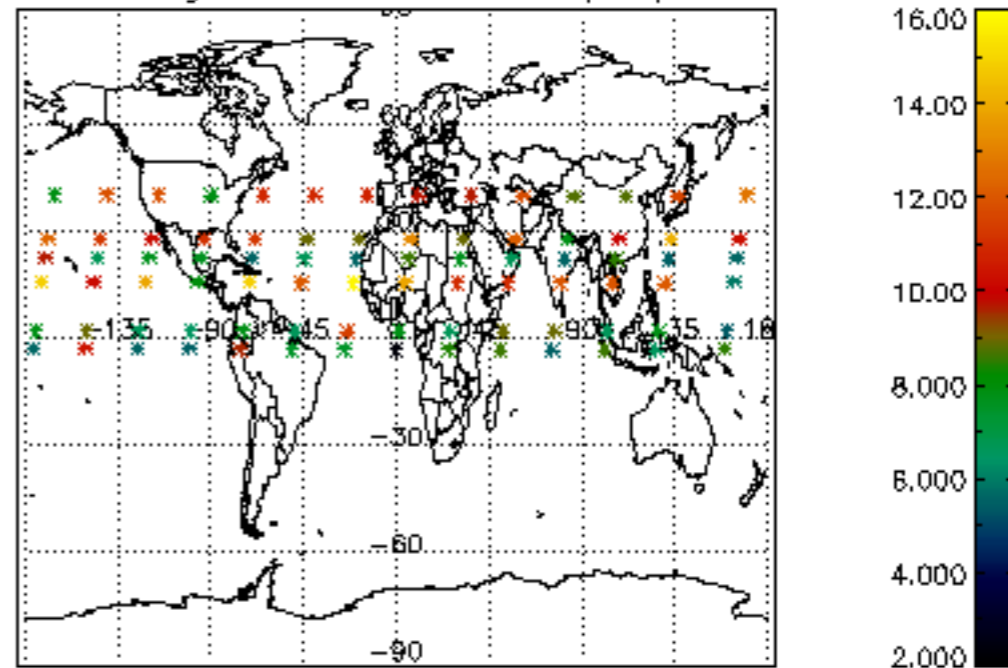
Percentage of datation errors per profile

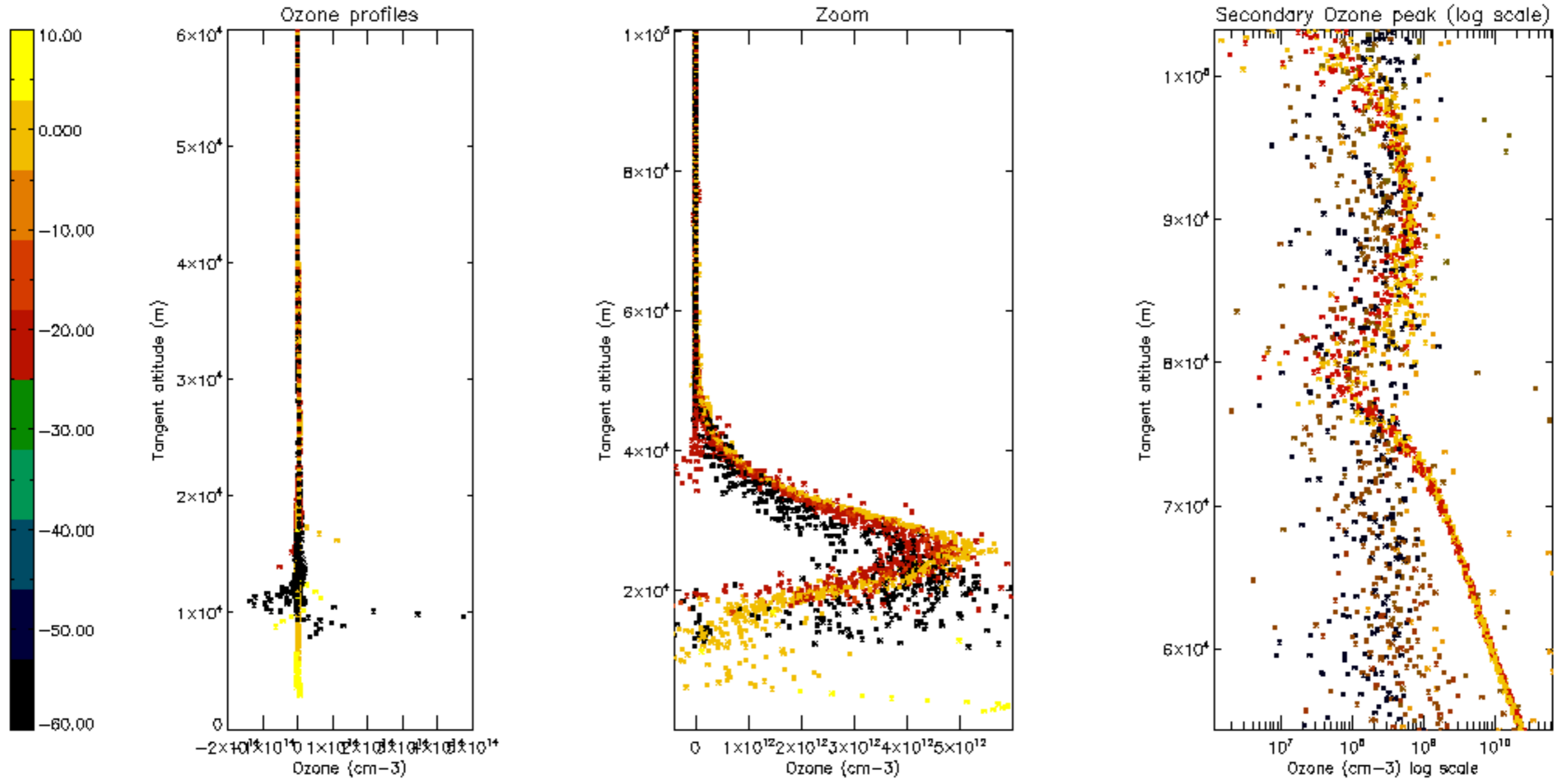


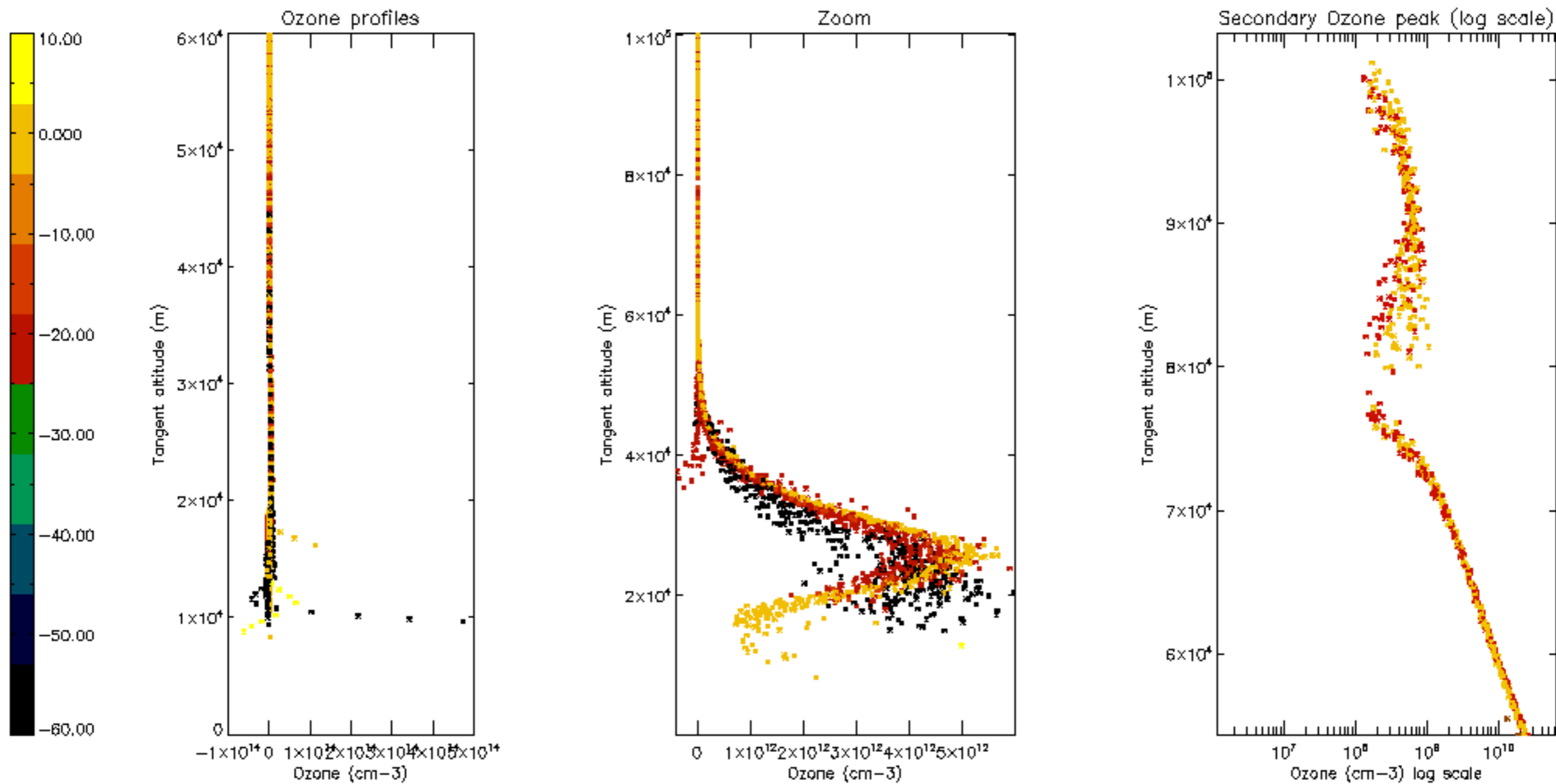
Percentage of star falling outside central band per profile

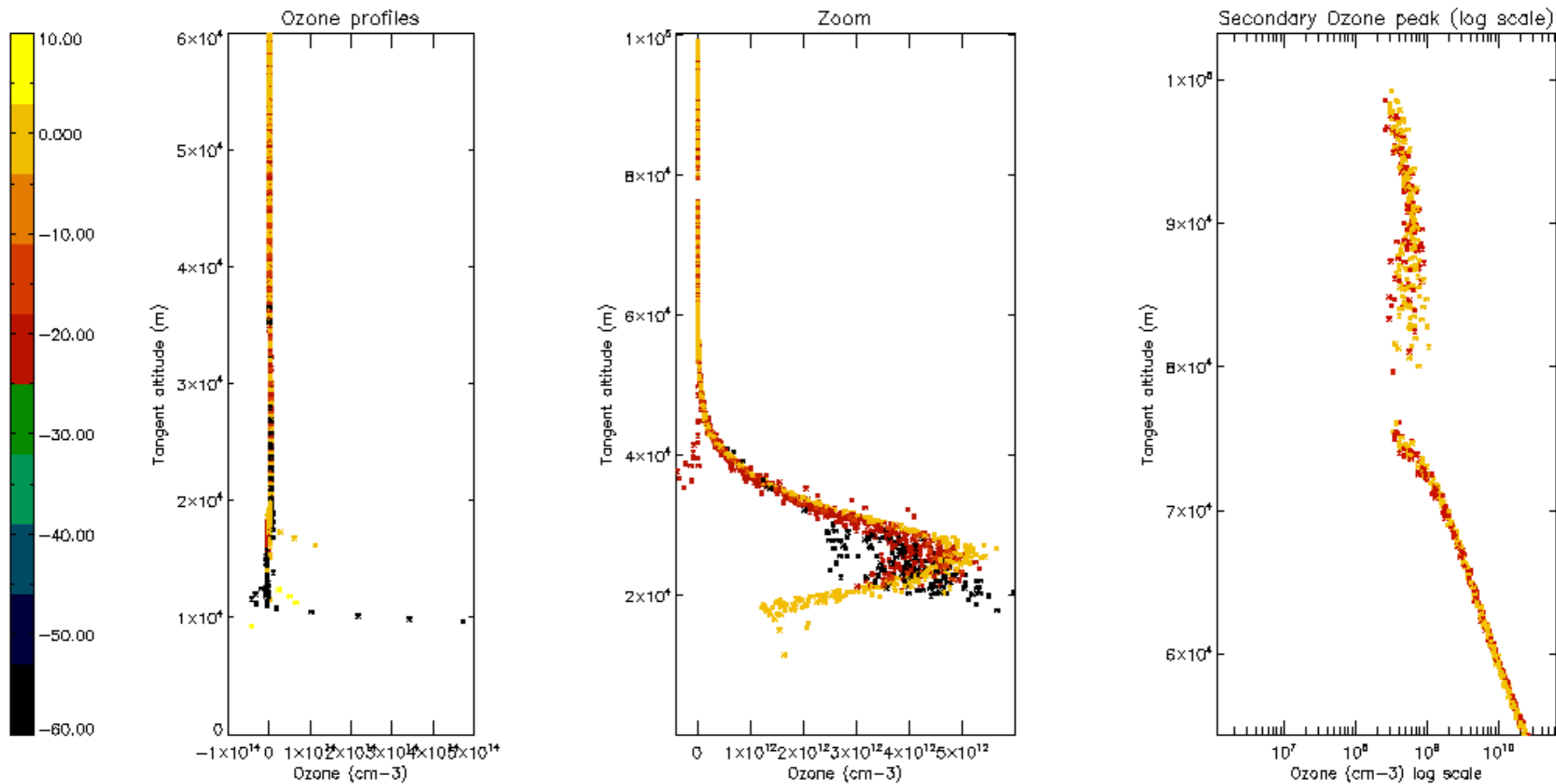


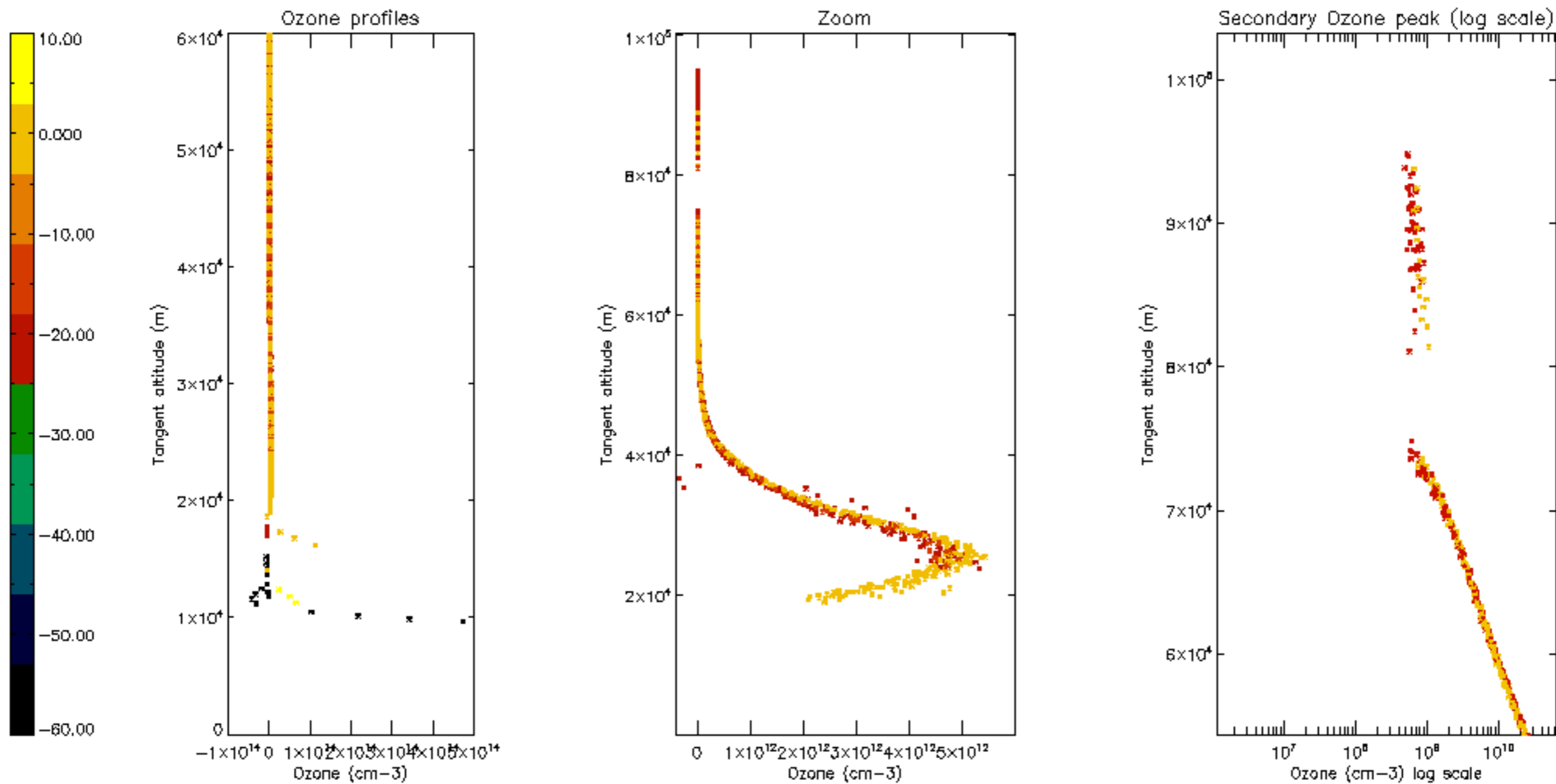
Percentage of saturation errors per profile

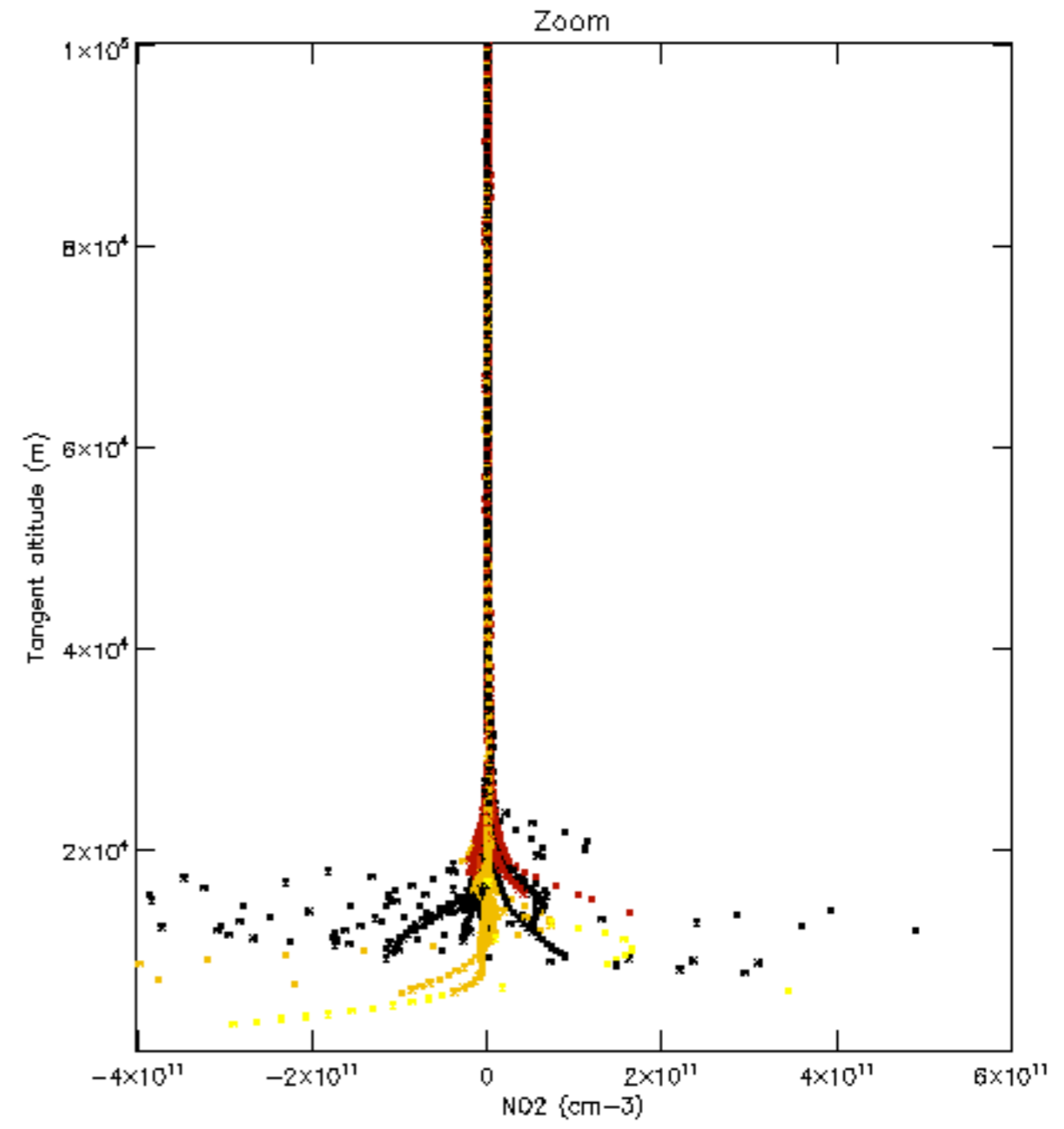
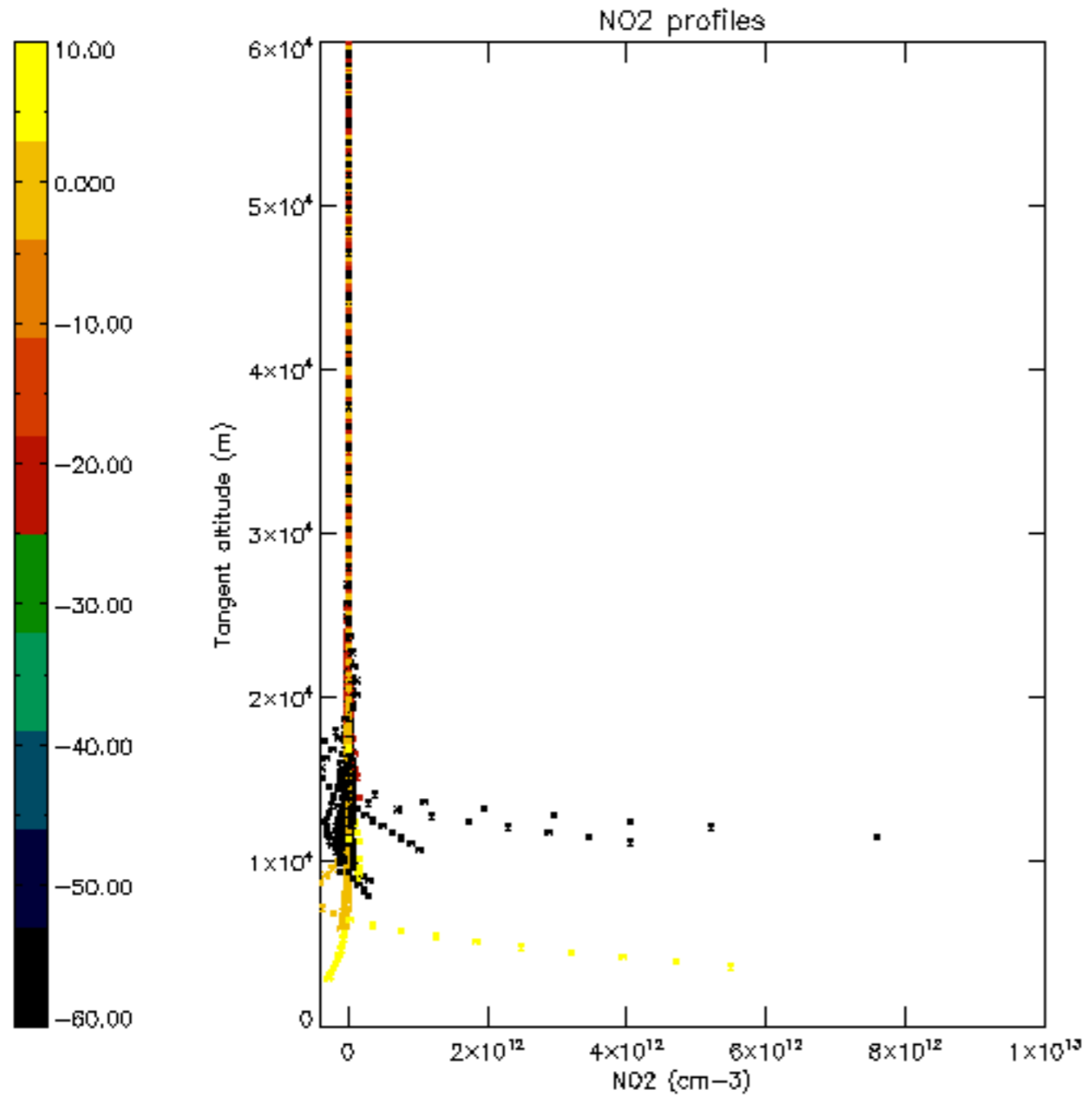


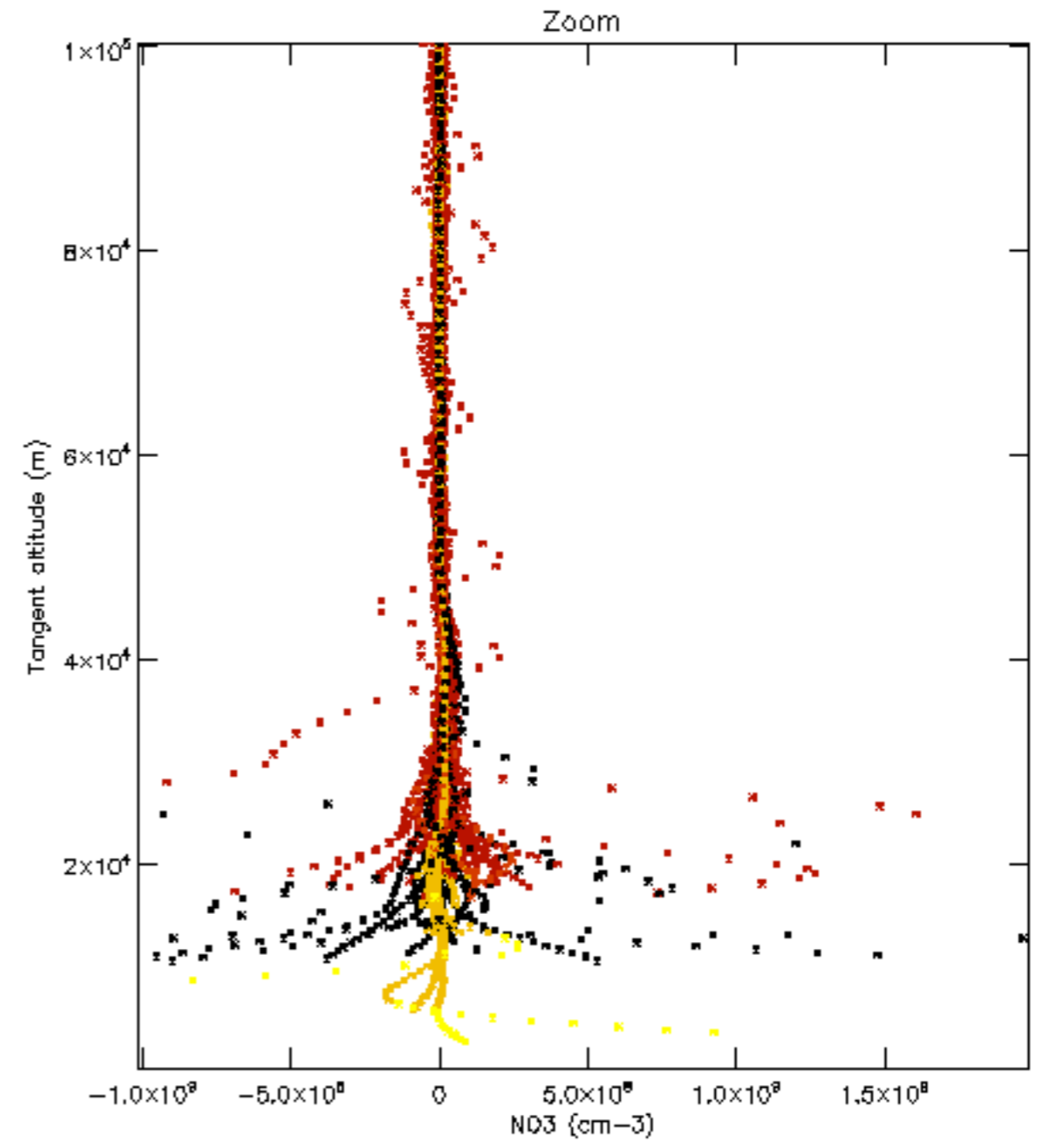
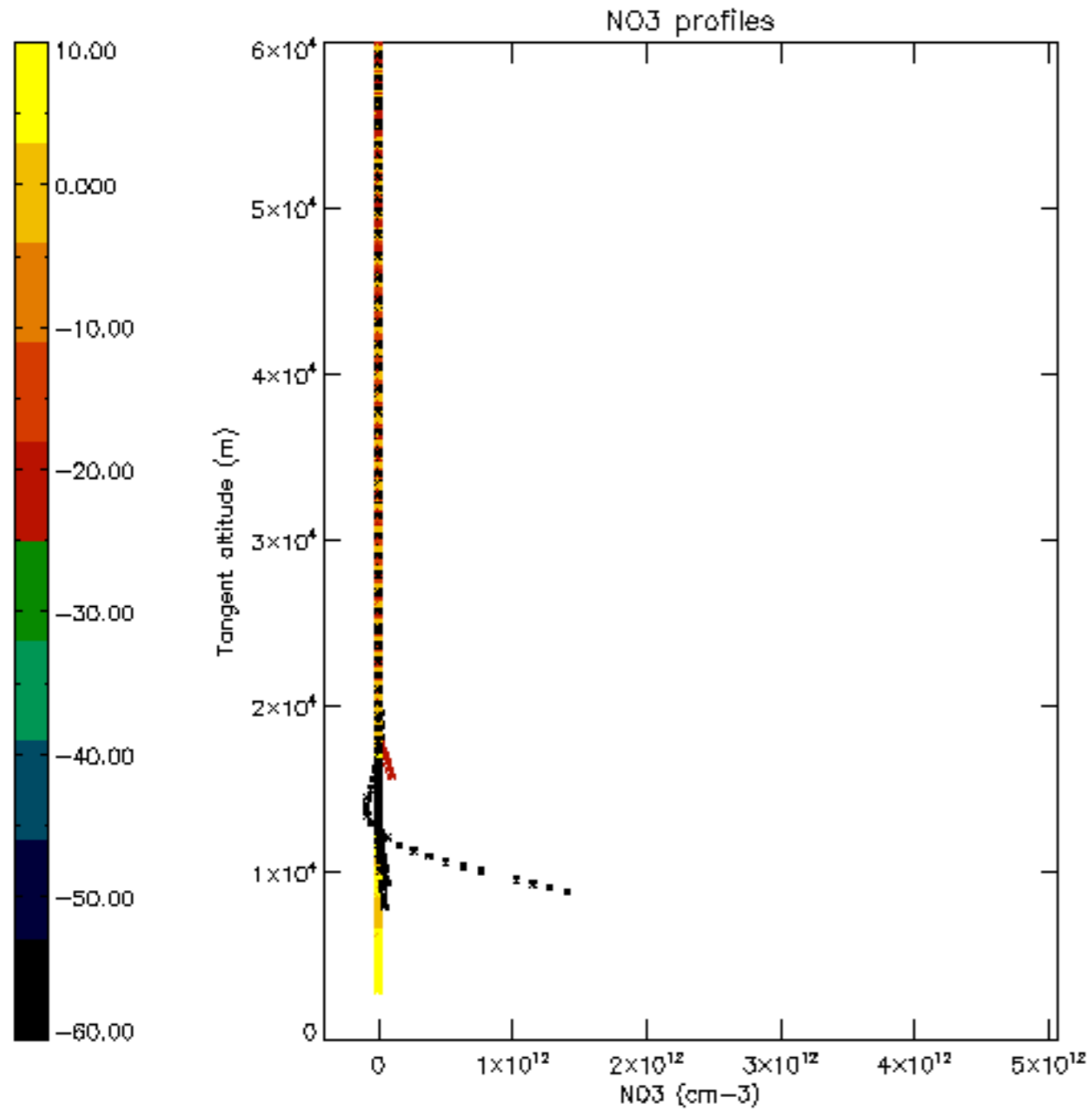


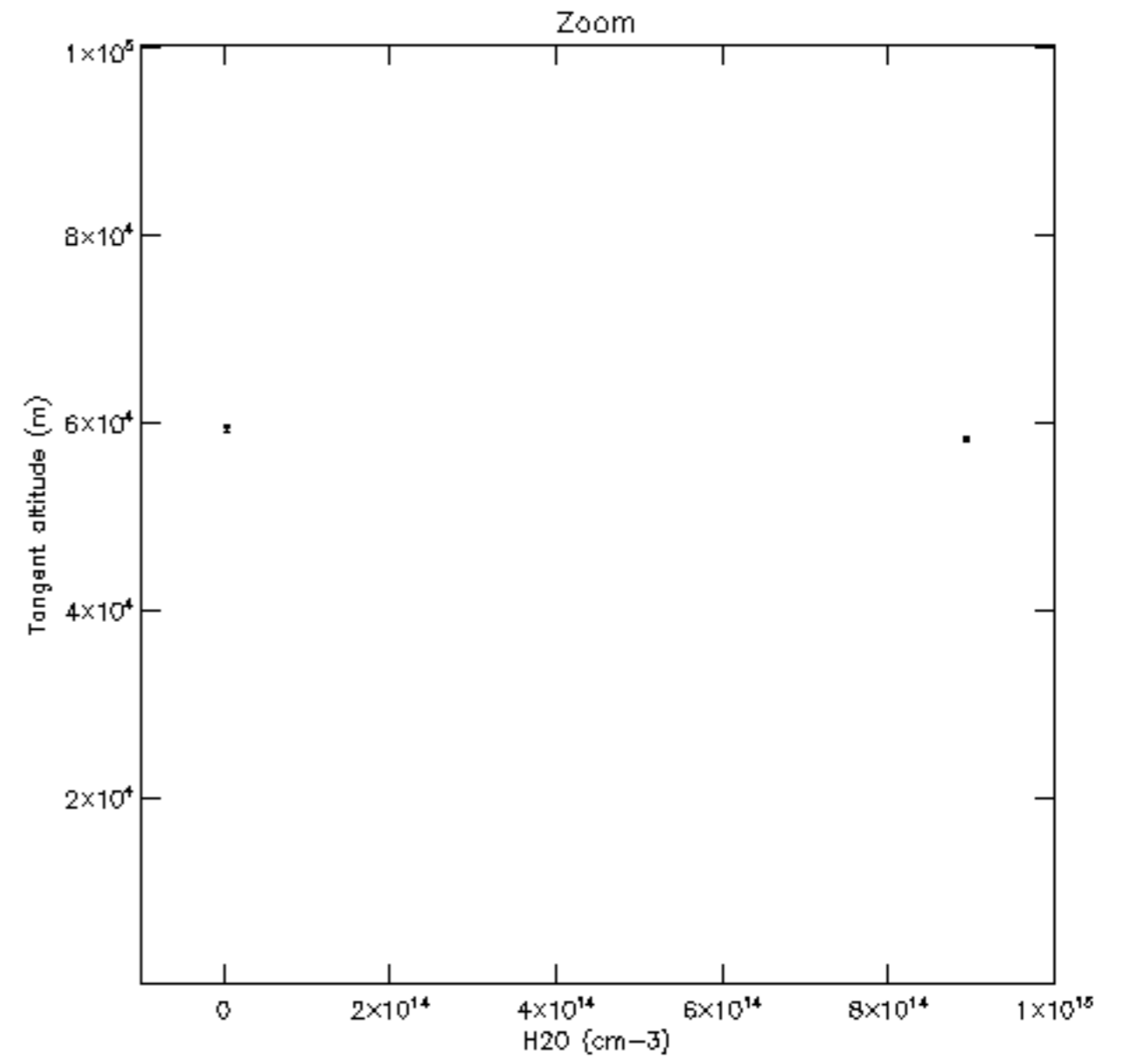
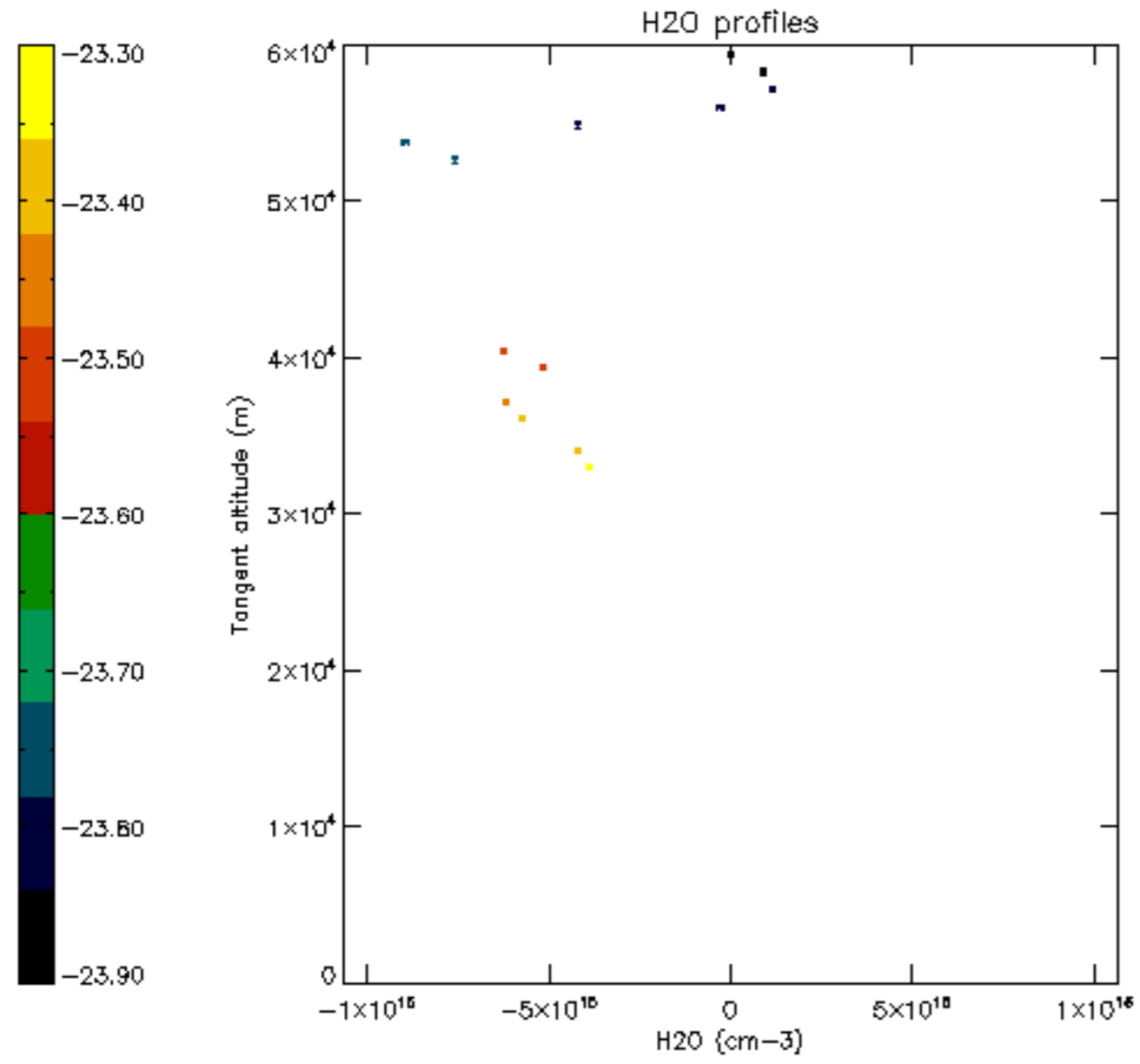


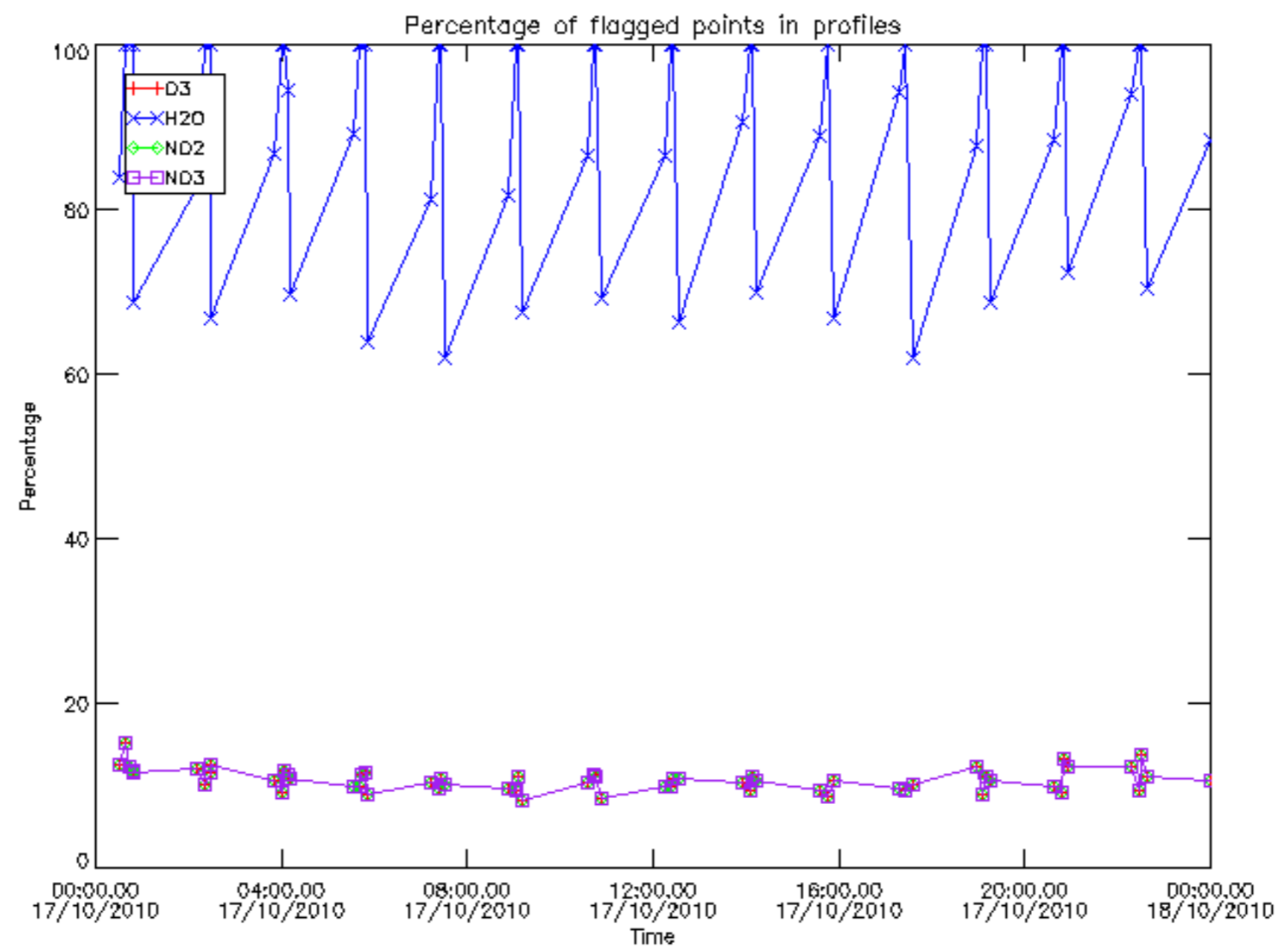




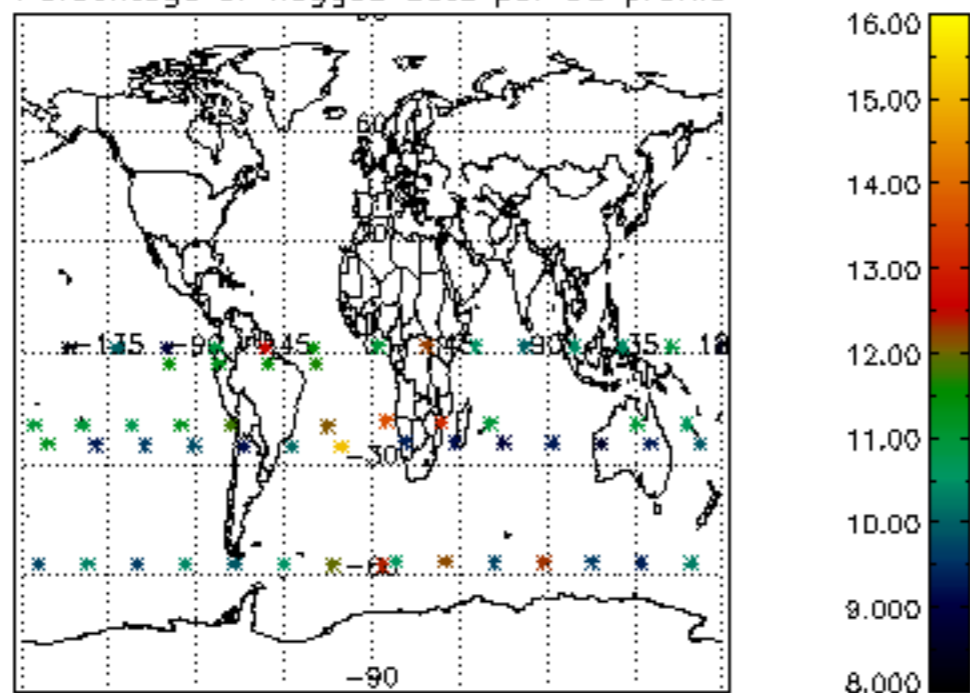




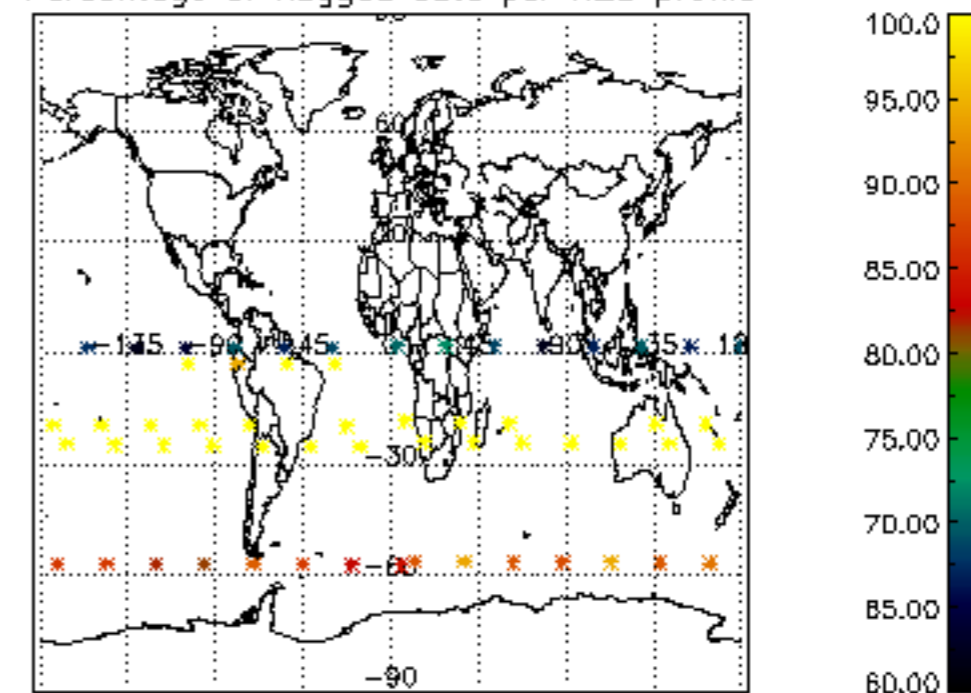




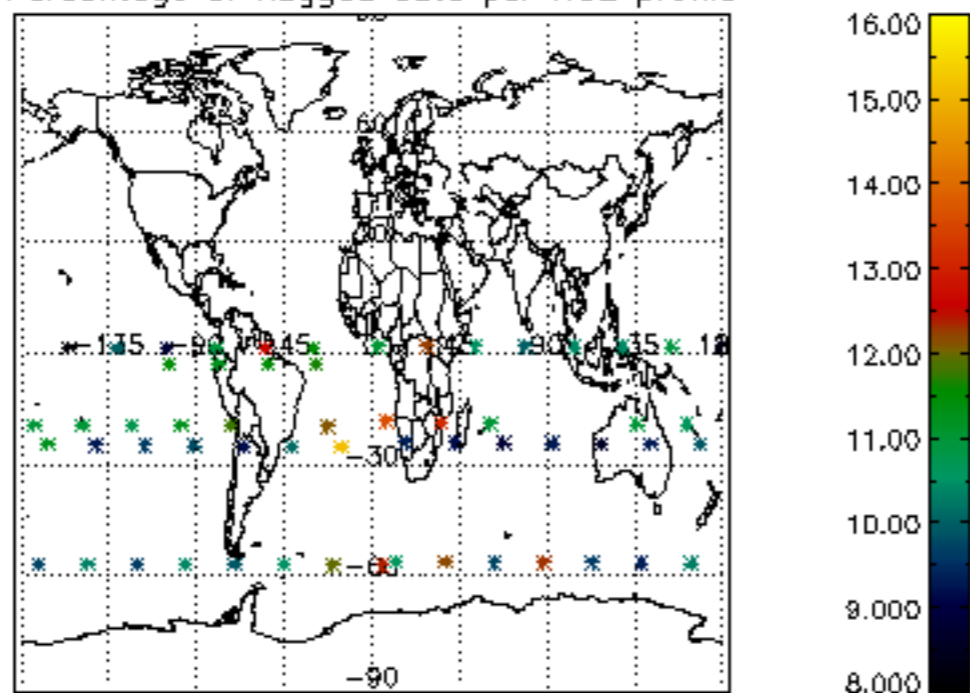
Percentage of flagged data per D3 profile



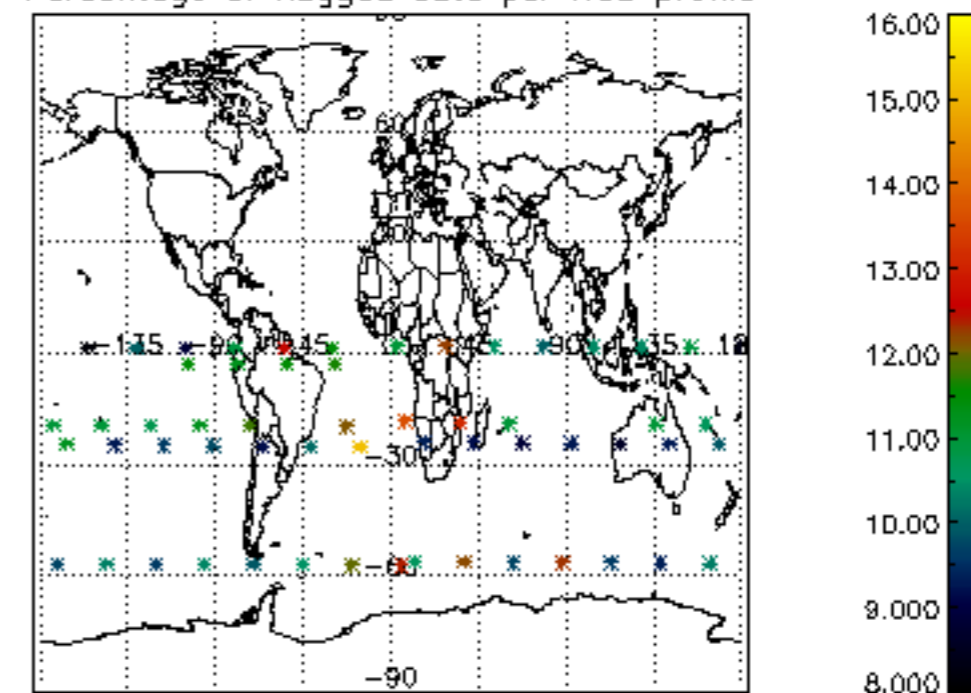
Percentage of flagged data per H2O profile

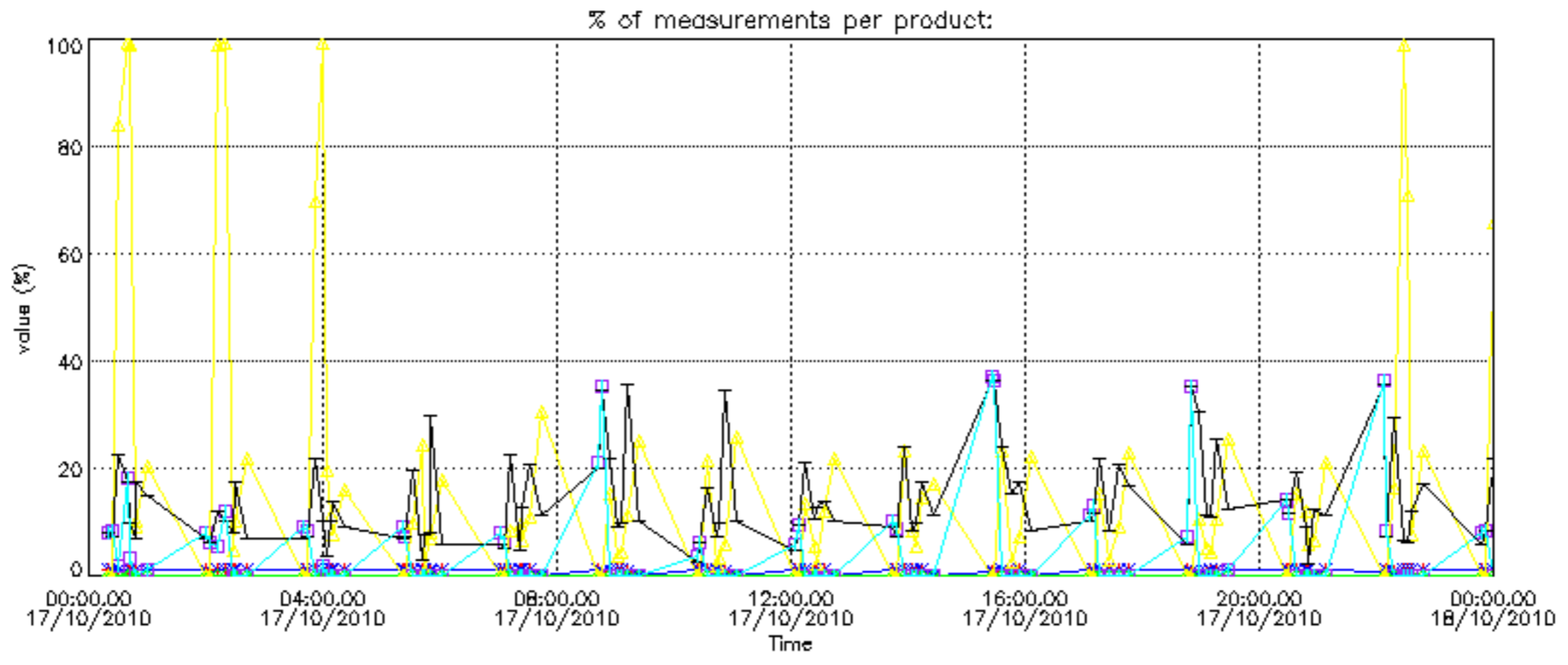


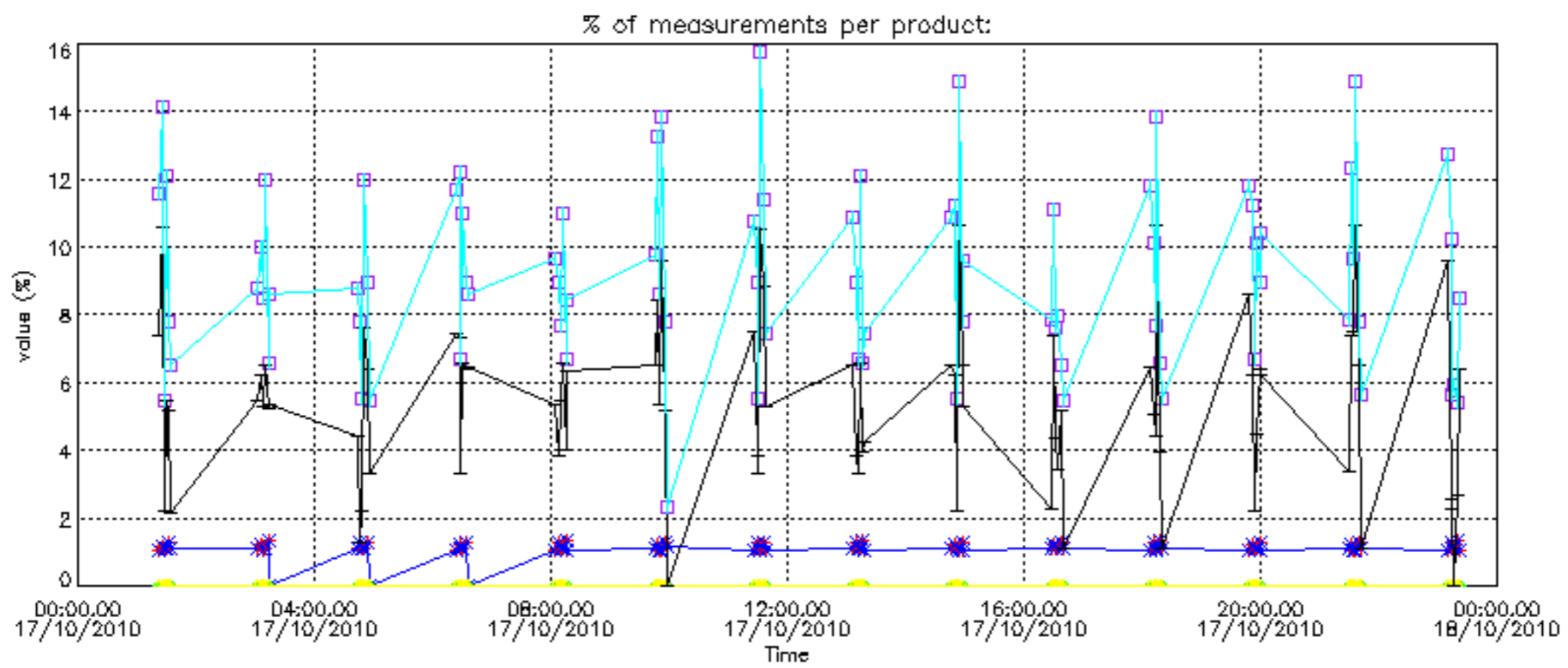
Percentage of flagged data per NO2 profile



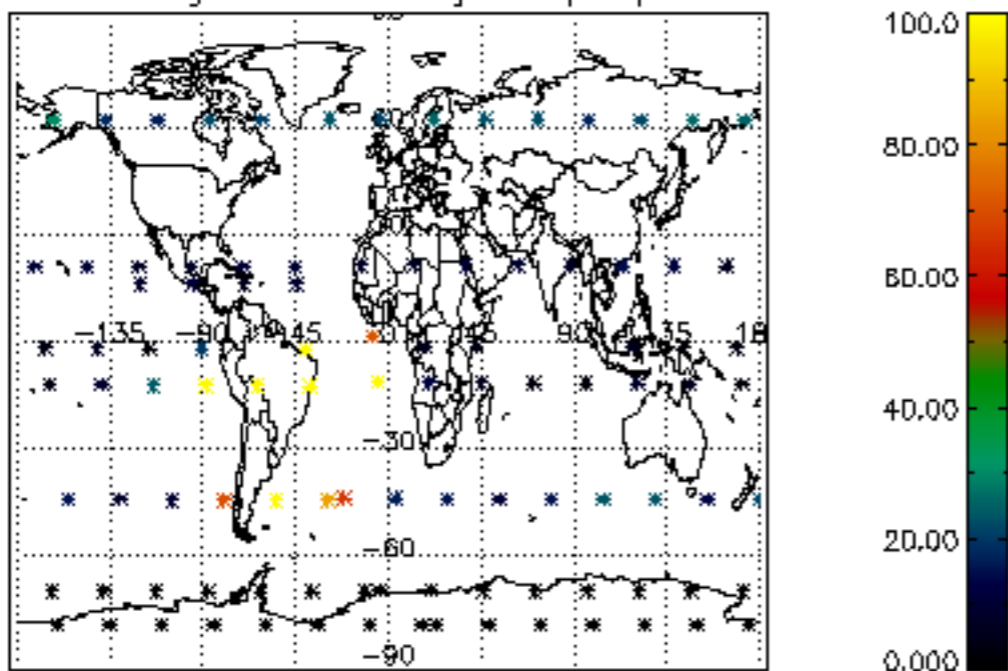
Percentage of flagged data per NO3 profile



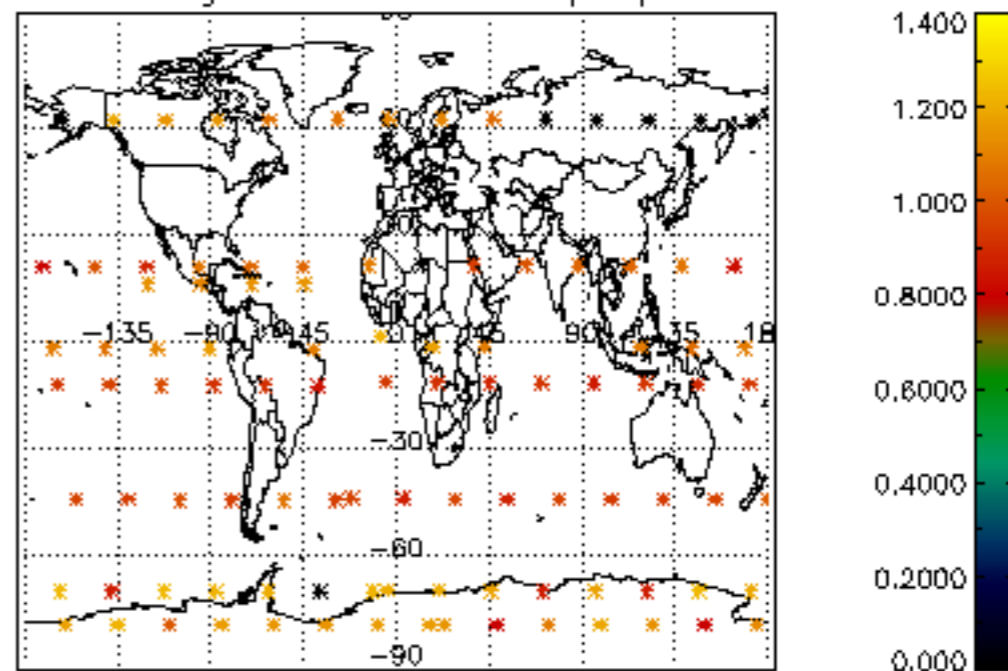




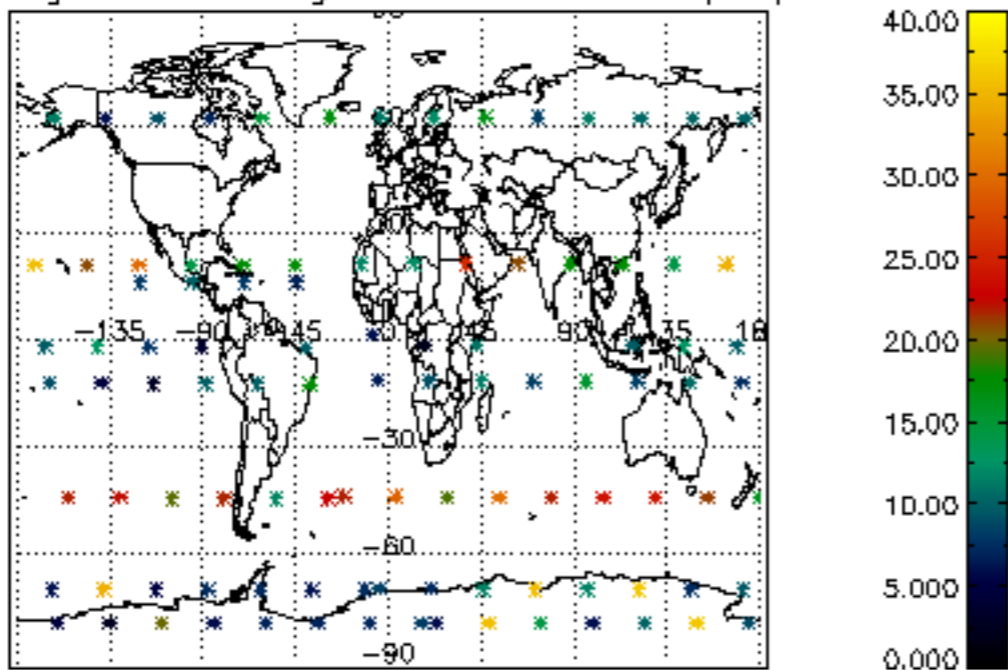
Percentage of cosmic ray hits per profile



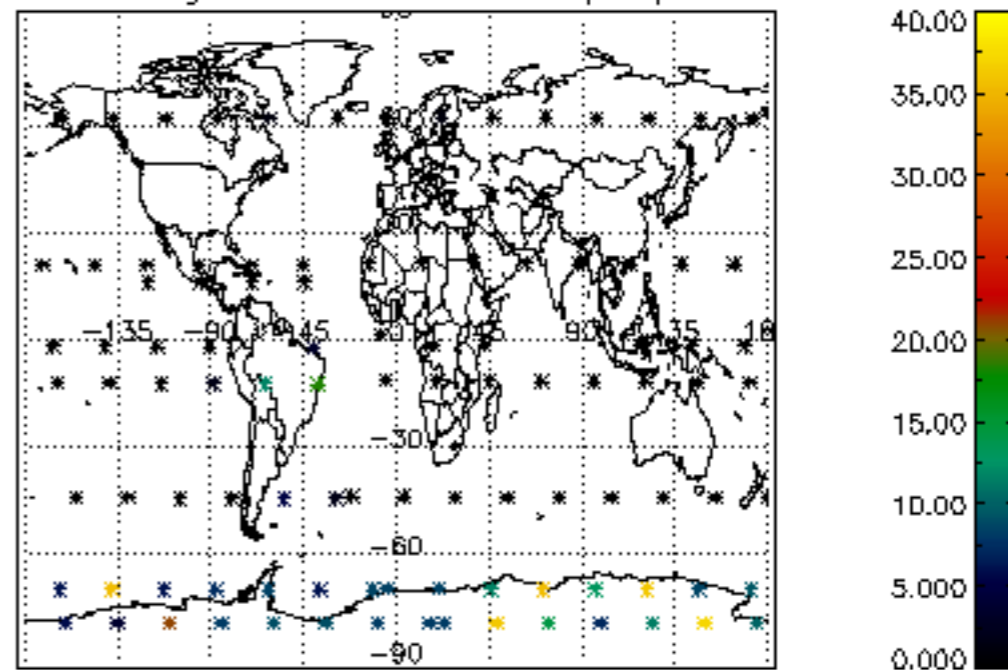
Percentage of datation errors per profile



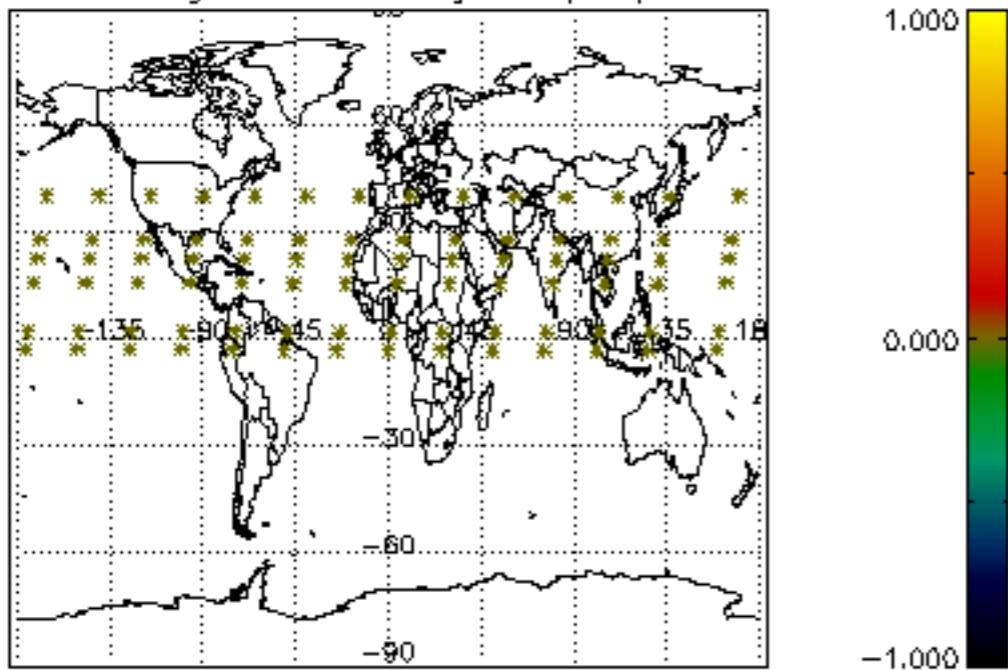
Percentage of star falling outside central band per profile



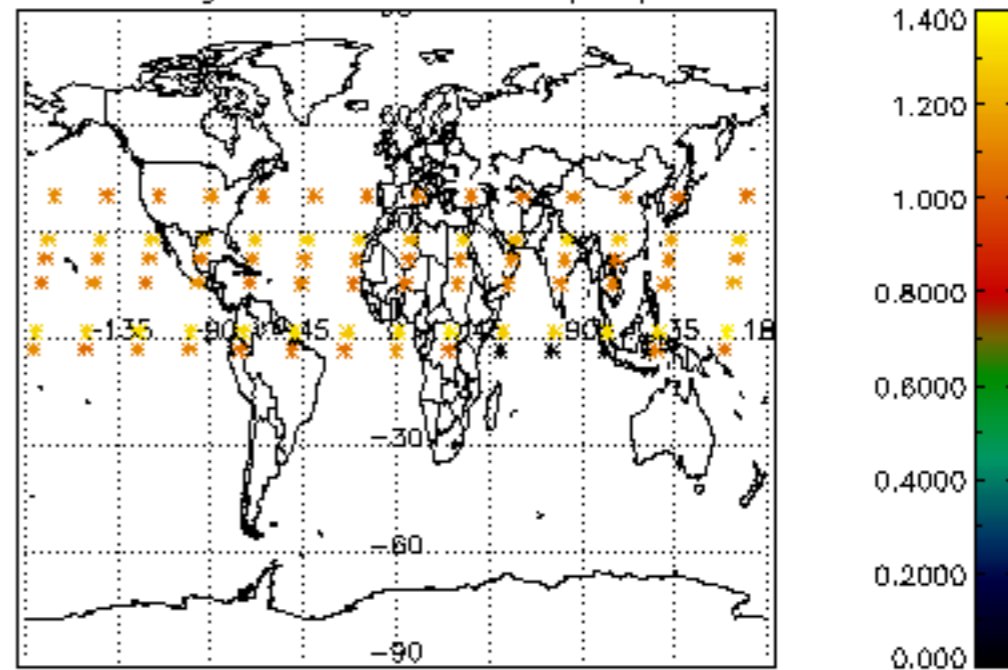
Percentage of saturation errors per profile



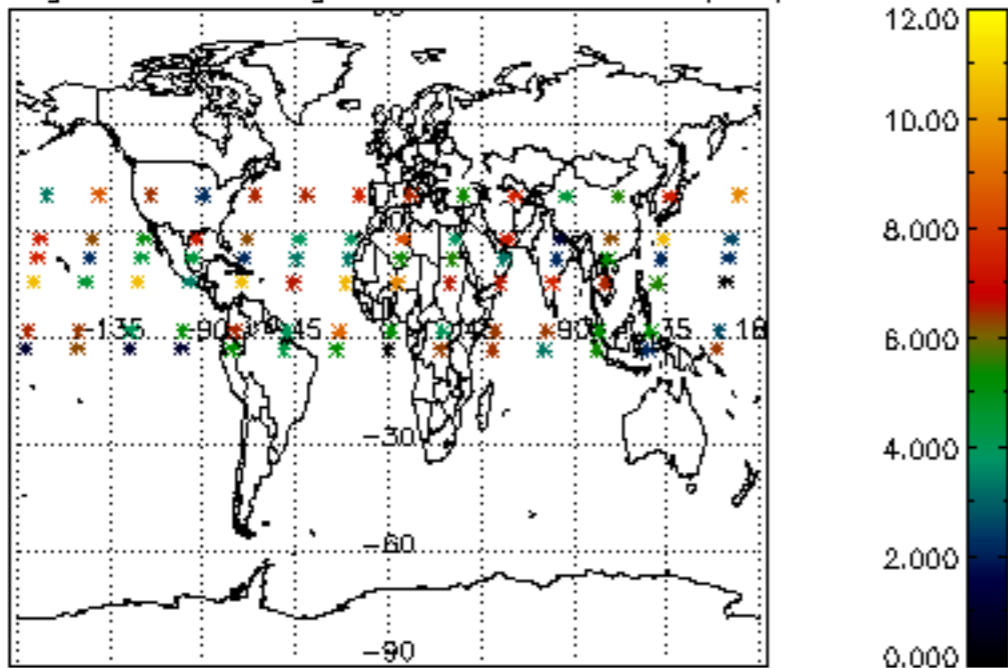
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

