

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	24APR2013 18:00:48
Data source version	GOMOS/6.01
Start time of products	23-10-2011 (23OCT2011 00:00:00)
Stop time of products	24-10-2011 (24OCT2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	26
Nb of prods with errors	0

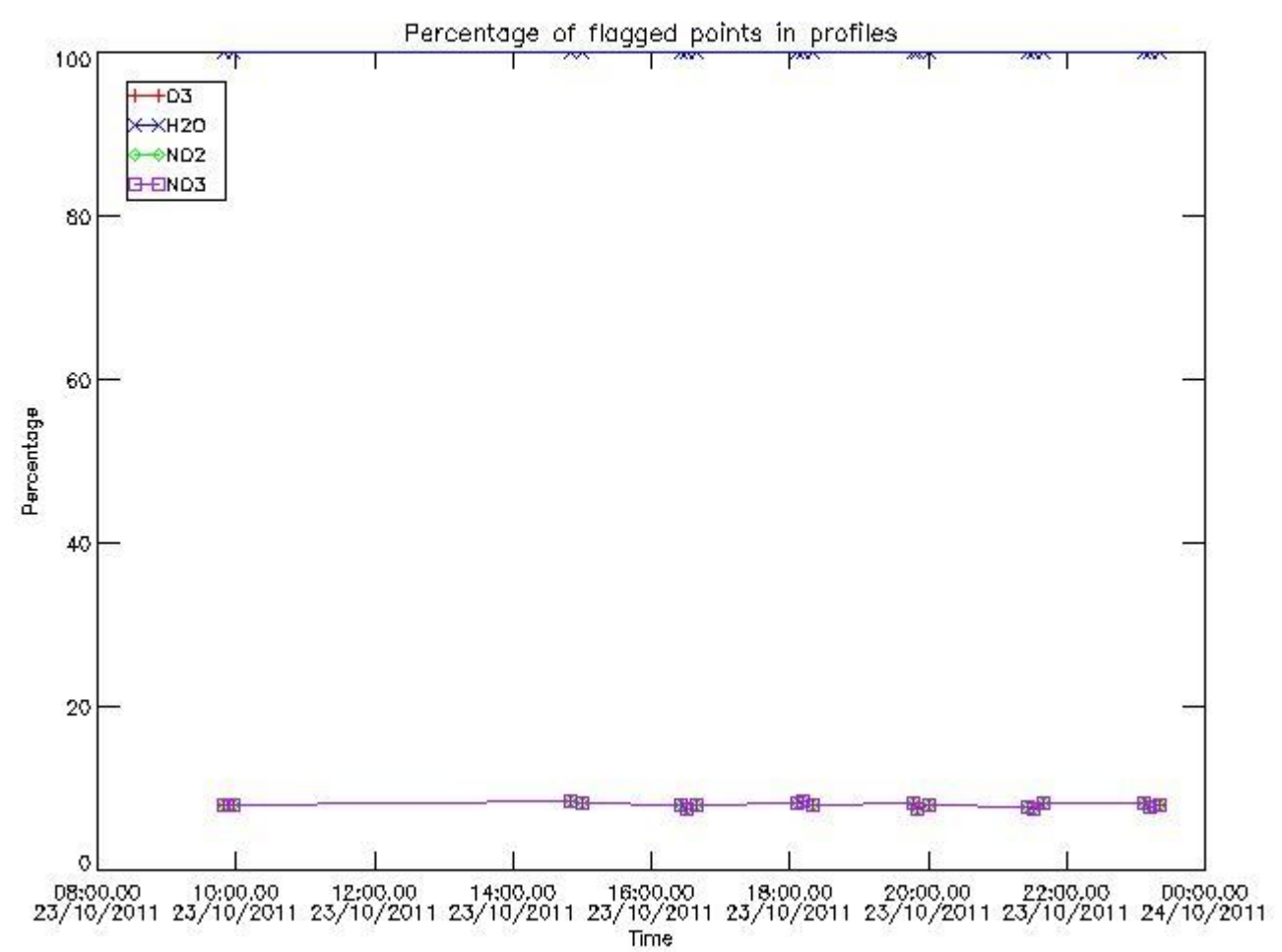
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20111023_094936_000000643108_00008_50453_0294.N1	23-OCT-2011 09:49:36	Dark	63.500	88	31Eta CMa	2.4480	20000.	127	50453	No
2	GOM_NL__2PRFIN20111023_095838_000000653108_00008_50453_0295.N1	23-OCT-2011 09:58:38	Dark	64.500	108	Alp Col	2.6520	15200.	129	50453	No
3	GOM_NL__2PRFIN20111023_101938_000000593108_00008_50453_0296.N1	23-OCT-2011 10:19:38	Bright	58.500	94	92Alp Cet	2.5260	3100.0	117	50453	No
4	GOM_NL__2PRFIN20111023_145023_000000673108_00011_50456_0376.N1	23-OCT-2011 14:50:23	Dark	66.500	88	31Eta CMa	2.4480	20000.	133	50456	No
5	GOM_NL__2PRFIN20111023_145923_000000633108_00011_50456_0377.N1	23-OCT-2011 14:59:23	Dark	62.500	108	Alp Col	2.6520	15200.	125	50456	No
6	GOM_NL__2PRFIN20111023_152018_000000593108_00011_50456_0378.N1	23-OCT-2011 15:20:18	Bright	59.000	94	92Alp Cet	2.5260	3100.0	118	50456	No
7	GOM_NL__2PRFIN20111023_162550_000000643108_00011_50456_0379.N1	23-OCT-2011 16:25:50	Dark	64.000	132	15Rho Pup	2.8030	6900.0	128	50456	No
8	GOM_NL__2PRFIN20111023_163039_000000693108_00012_50457_0415.N1	23-OCT-2011 16:30:39	Dark	69.000	88	31Eta CMa	2.4480	20000.	138	50457	No
9	GOM_NL__2PRFIN20111023_163939_000000633108_00012_50457_0416.N1	23-OCT-2011 16:39:39	Dark	63.000	108	Alp Col	2.6520	15200.	126	50457	No
10	GOM_NL__2PRFIN20111023_170032_000000603108_00012_50457_0417.N1	23-OCT-2011 17:00:32	Bright	59.500	94	92Alp Cet	2.5260	3100.0	119	50457	No
11	GOM_NL__2PRFIN20111023_180606_000000623108_00012_50457_0418.N1	23-OCT-2011 18:06:06	Dark	61.500	132	15Rho Pup	2.8030	6900.0	123	50457	No
12	GOM_NL__2PRFIN20111023_181054_000000673108_00013_50458_0458.N1	23-OCT-2011 18:10:54	Dark	66.500	88	31Eta CMa	2.4480	20000.	133	50458	No
13	GOM_NL__2PRFIN20111023_181954_000000633108_00013_50458_0459.N1	23-OCT-2011 18:19:54	Dark	63.000	108	Alp Col	2.6520	15200.	126	50458	No
14	GOM_NL__2PRFIN20111023_184045_000000603108_00013_50458_0460.N1	23-OCT-2011 18:40:45	Bright	59.500	94	92Alp Cet	2.5260	3100.0	119	50458	No
15	GOM_NL__2PRFIN20111023_194621_000000623108_00013_50458_0461.N1	23-OCT-2011 19:46:21	Dark	62.000	132	15Rho Pup	2.8030	6900.0	124	50458	No
16	GOM_NL__2PRFIN20111023_195110_000000683108_00014_50459_0464.N1	23-OCT-2011 19:51:10	Dark	68.000	88	31Eta CMa	2.4480	20000.	136	50459	No
17	GOM_NL__2PRFIN20111023_200009_000000633108_00014_50459_0465.N1	23-OCT-2011 20:00:09	Dark	63.000	108	Alp Col	2.6520	15200.	126	50459	No
18	GOM_NL__2PRFIN20111023_202058_000000613108_00014_50459_0466.N1	23-OCT-2011 20:20:58	Bright	60.500	94	92Alp Cet	2.5260	3100.0	121	50459	No
19	GOM_NL__2PRFIN20111023_212637_000000663108_00014_50459_0467.N1	23-OCT-2011 21:26:37	Dark	65.500	132	15Rho Pup	2.8030	6900.0	131	50459	No
20	GOM_NL__2PRFIN20111023_213126_000000693108_00015_50460_0490.N1	23-OCT-2011 21:31:26	Dark	69.000	88	31Eta CMa	2.4480	20000.	138	50460	No
21	GOM_NL__2PRFIN20111023_214024_000000623108_00015_50460_0491.N1	23-OCT-2011 21:40:24	Dark	61.500	108	Alp Col	2.6520	15200.	123	50460	No
22	GOM_NL__2PRFIN20111023_220112_000000613108_00015_50460_0492.N1	23-OCT-2011 22:01:12	Bright	61.000	94	92Alp Cet	2.5260	3100.0	122	50460	No
23	GOM_NL__2PRFIN20111023_230652_000000633108_00015_50460_0493.N1	23-OCT-2011 23:06:52	Dark	63.000	132	15Rho Pup	2.8030	6900.0	126	50460	No
24	GOM_NL__2PRFIN20111023_231141_000000663108_00016_50461_0502.N1	23-OCT-2011 23:11:41	Dark	65.500	88	31Eta CMa	2.4480	20000.	131	50461	No
25	GOM_NL__2PRFIN20111023_232039_000000653108_00016_50461_0503.N1	23-OCT-2011 23:20:39	Dark	64.500	108	Alp Col	2.6520	15200.	129	50461	No
26	GOM_NL__2PRFIN20111023_234125_000000613108_00016_50461_0504.N1	23-OCT-2011 23:41:25	Bright	61.000	94	92Alp Cet	2.5260	3100.0	122	50461	No

3. Quality information per product

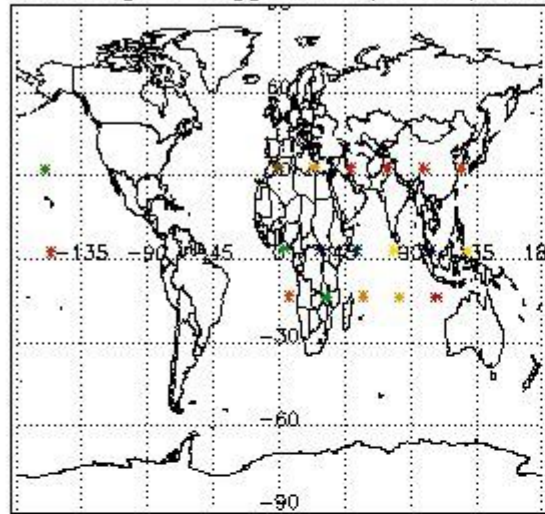
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

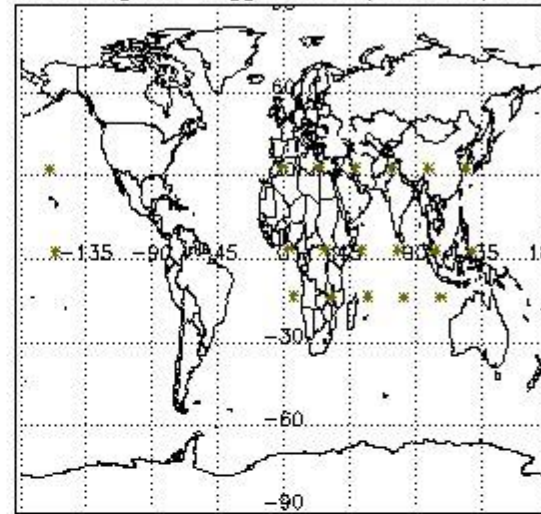


3.2 Plot quality information per product (world map)

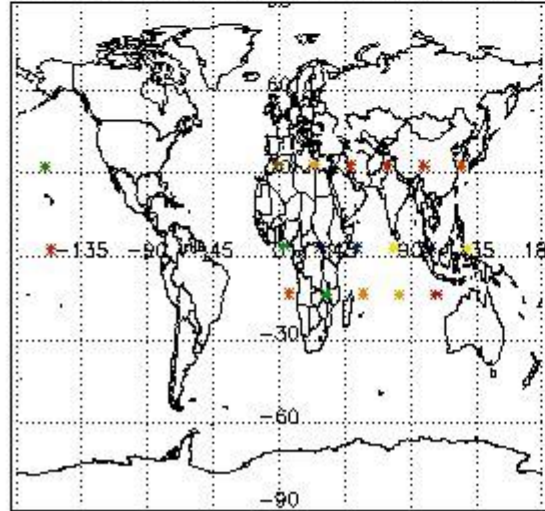
Percentage of flagged data per O3 profile



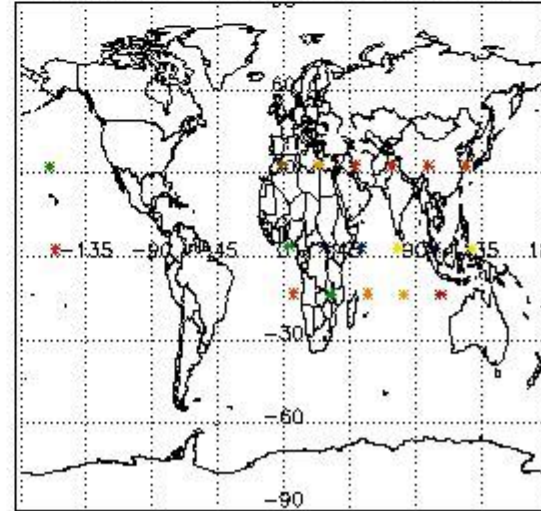
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

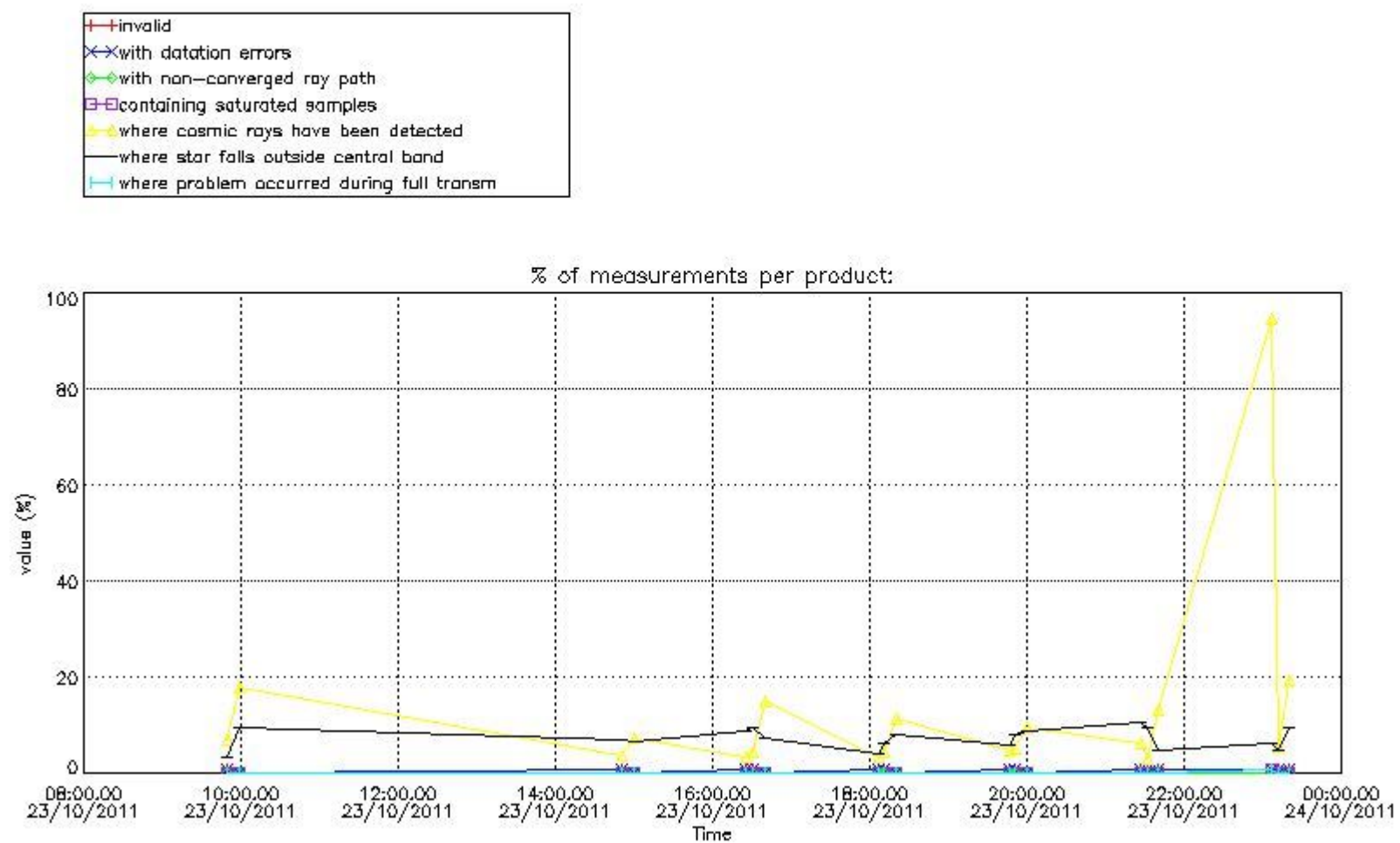


4. Level 1 quality information per product

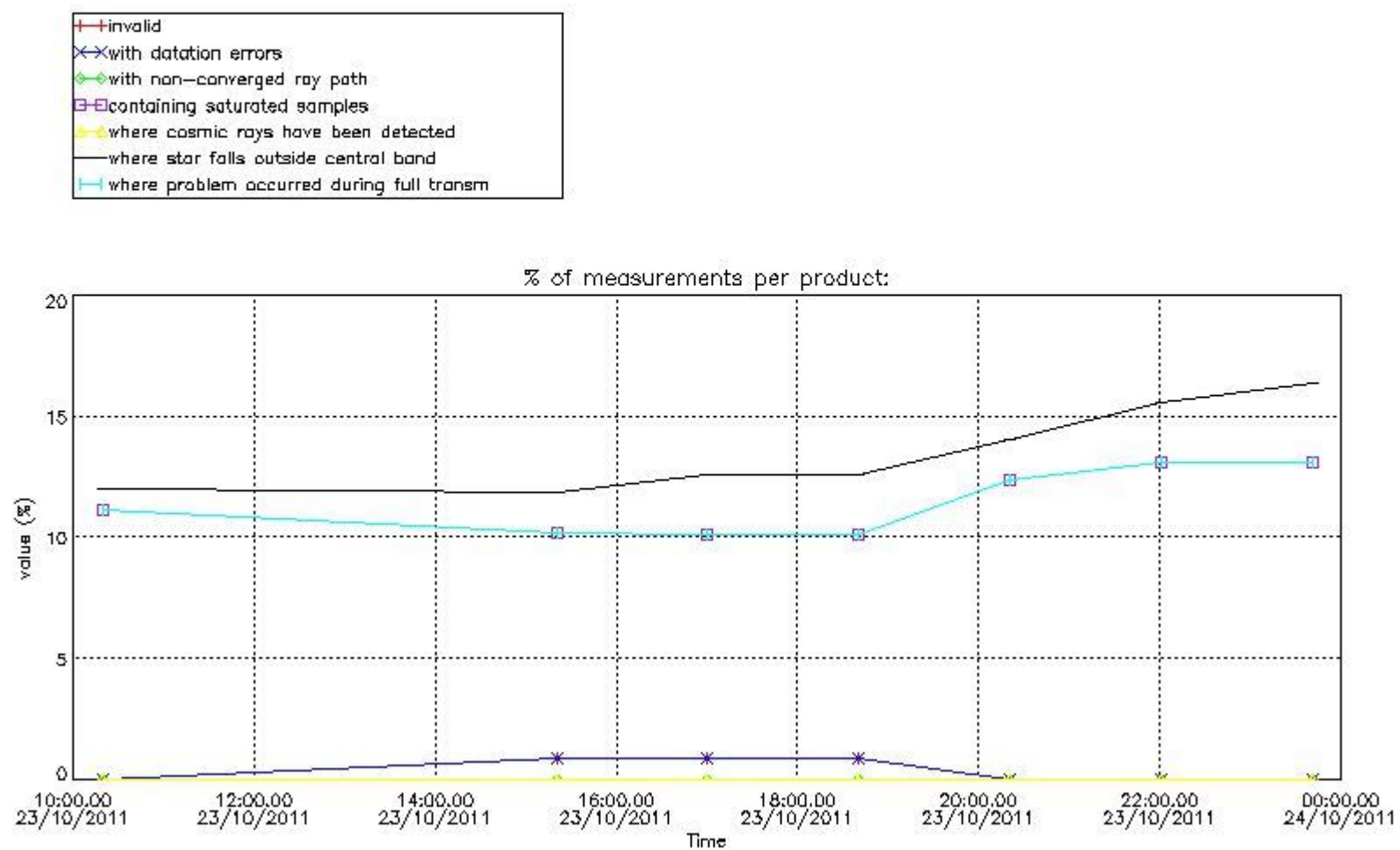
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



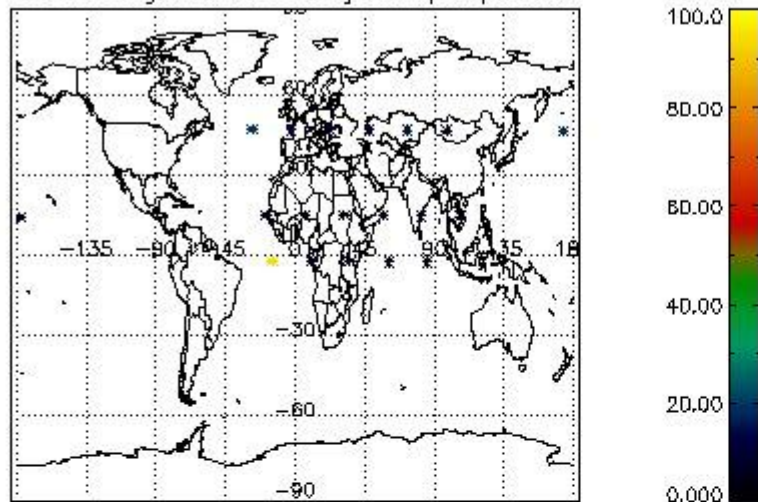
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



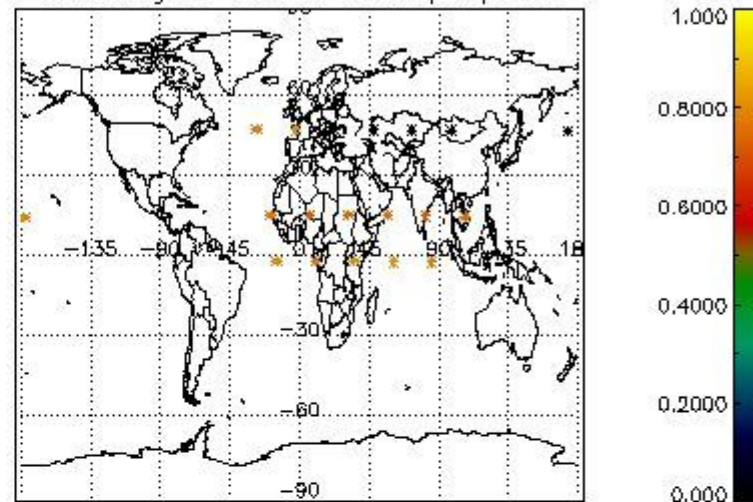
4.2 Plot quality information per product coming from level 1b processing (world map)

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

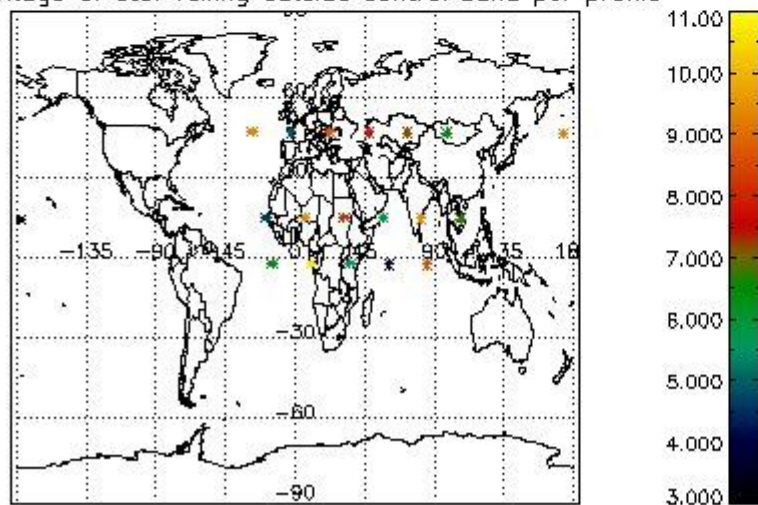
Percentage of cosmic ray hits per profile



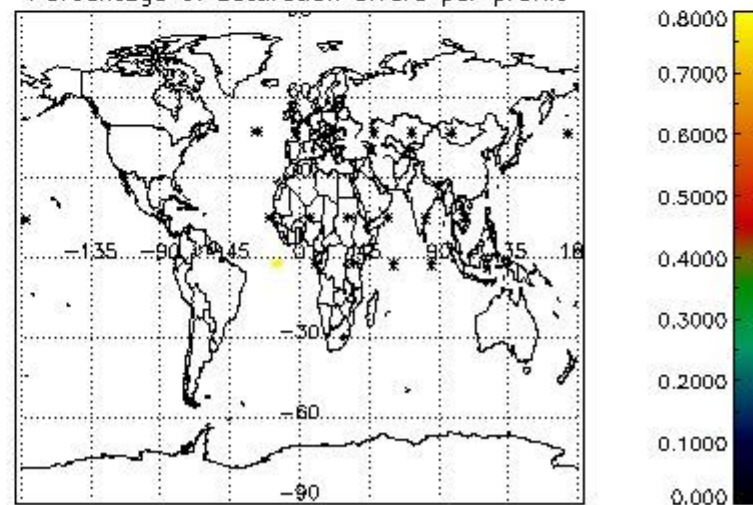
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

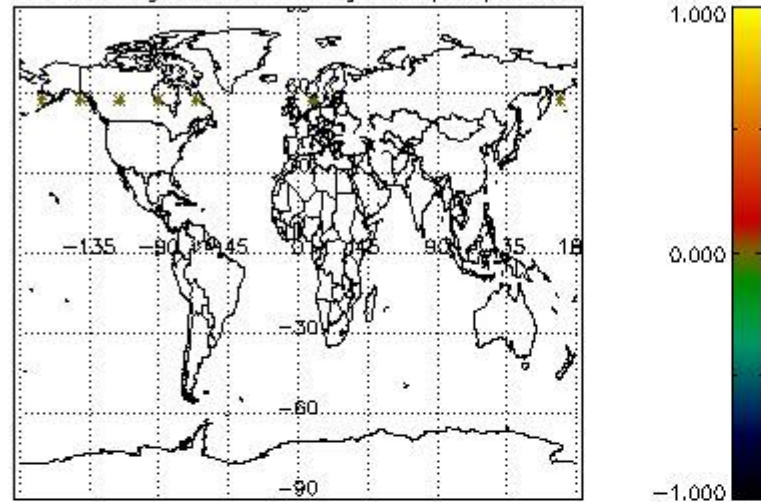


Percentage of saturation errors per profile

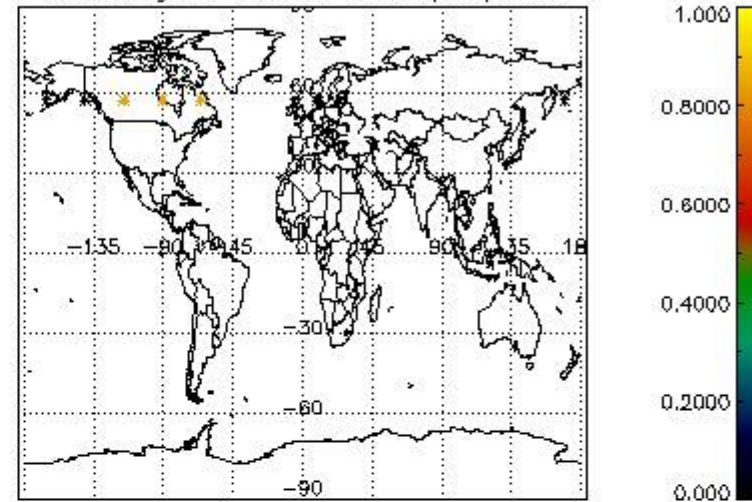


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

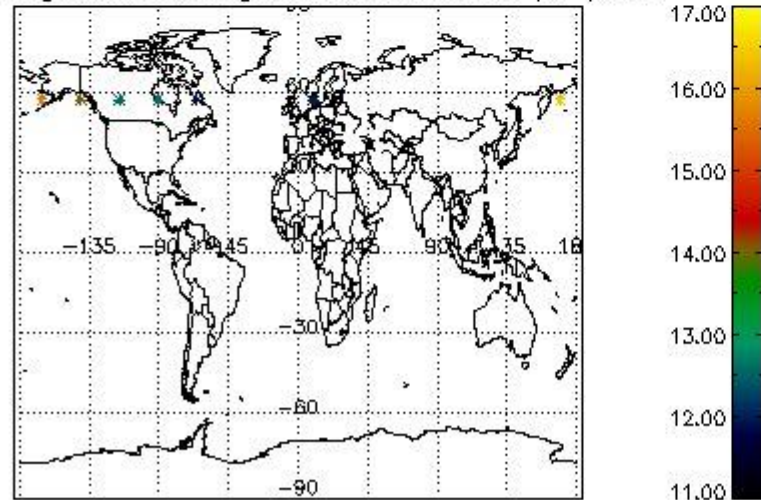
Percentage of cosmic ray hits per profile



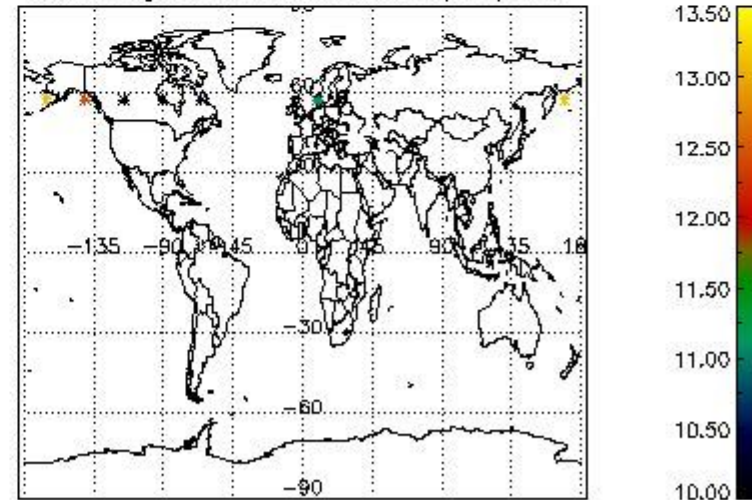
Percentage of datation errors per profile



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

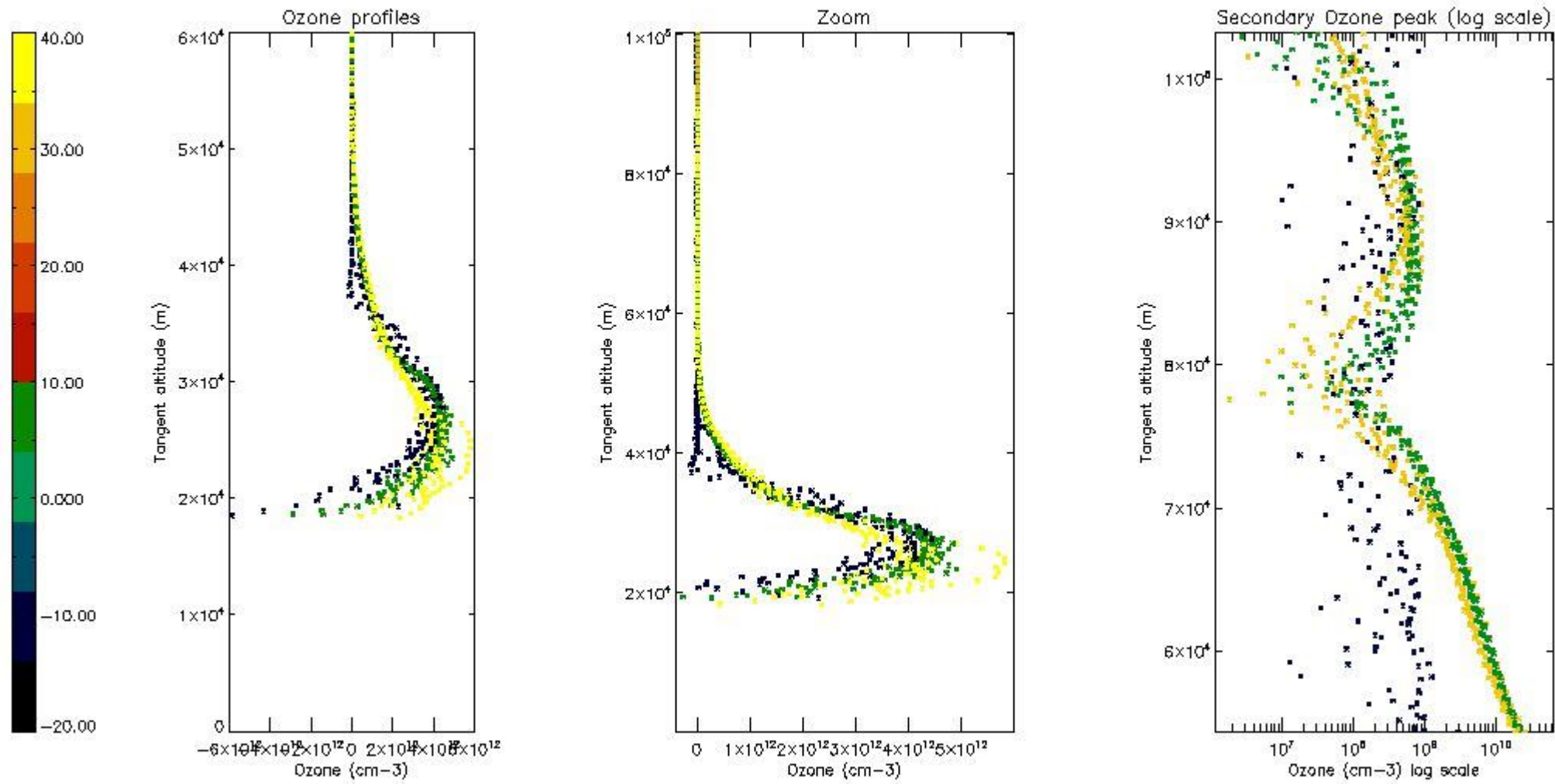
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	75
STD < 20	40

STD < 10	33
STD < 5	22

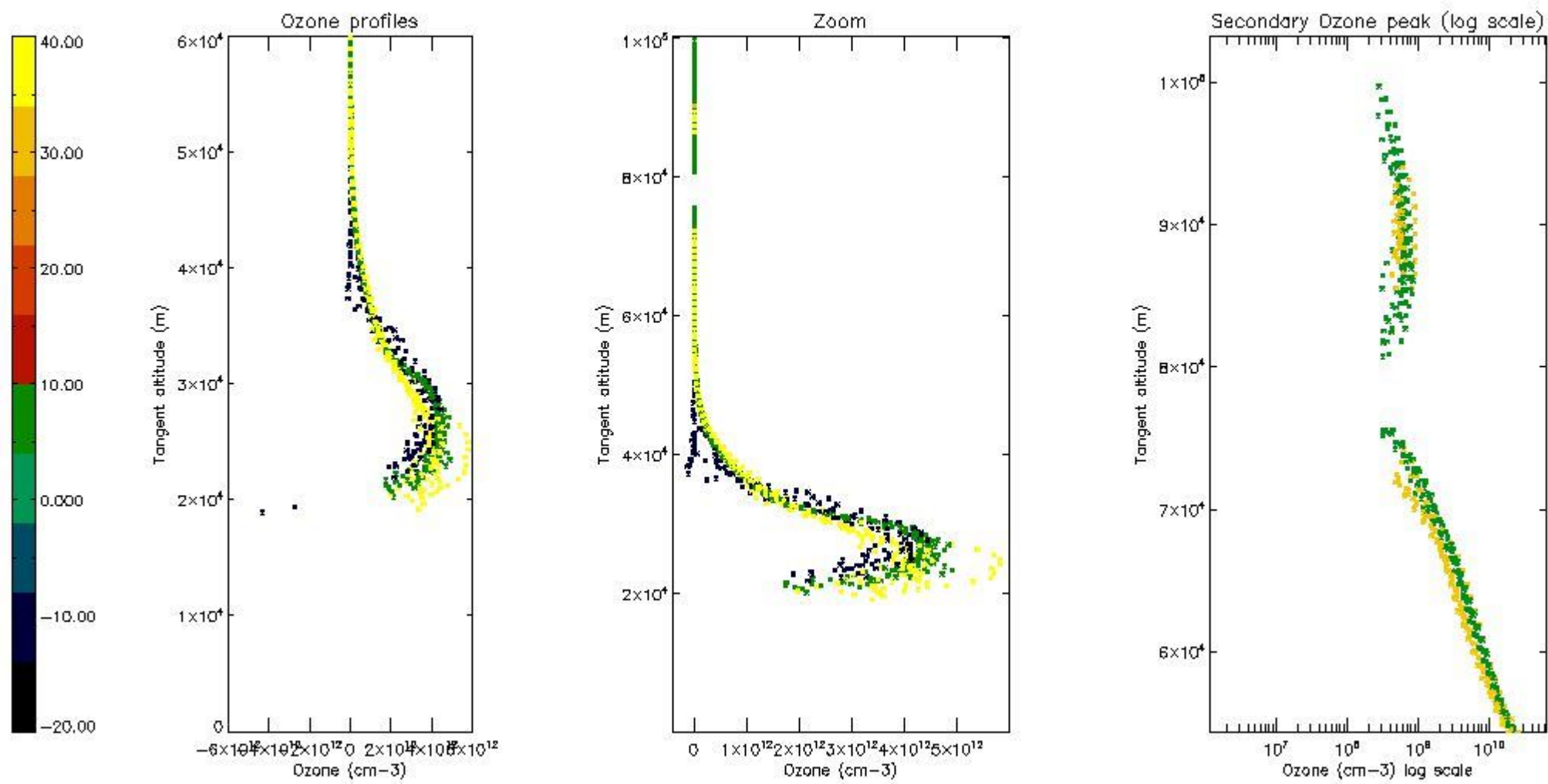
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



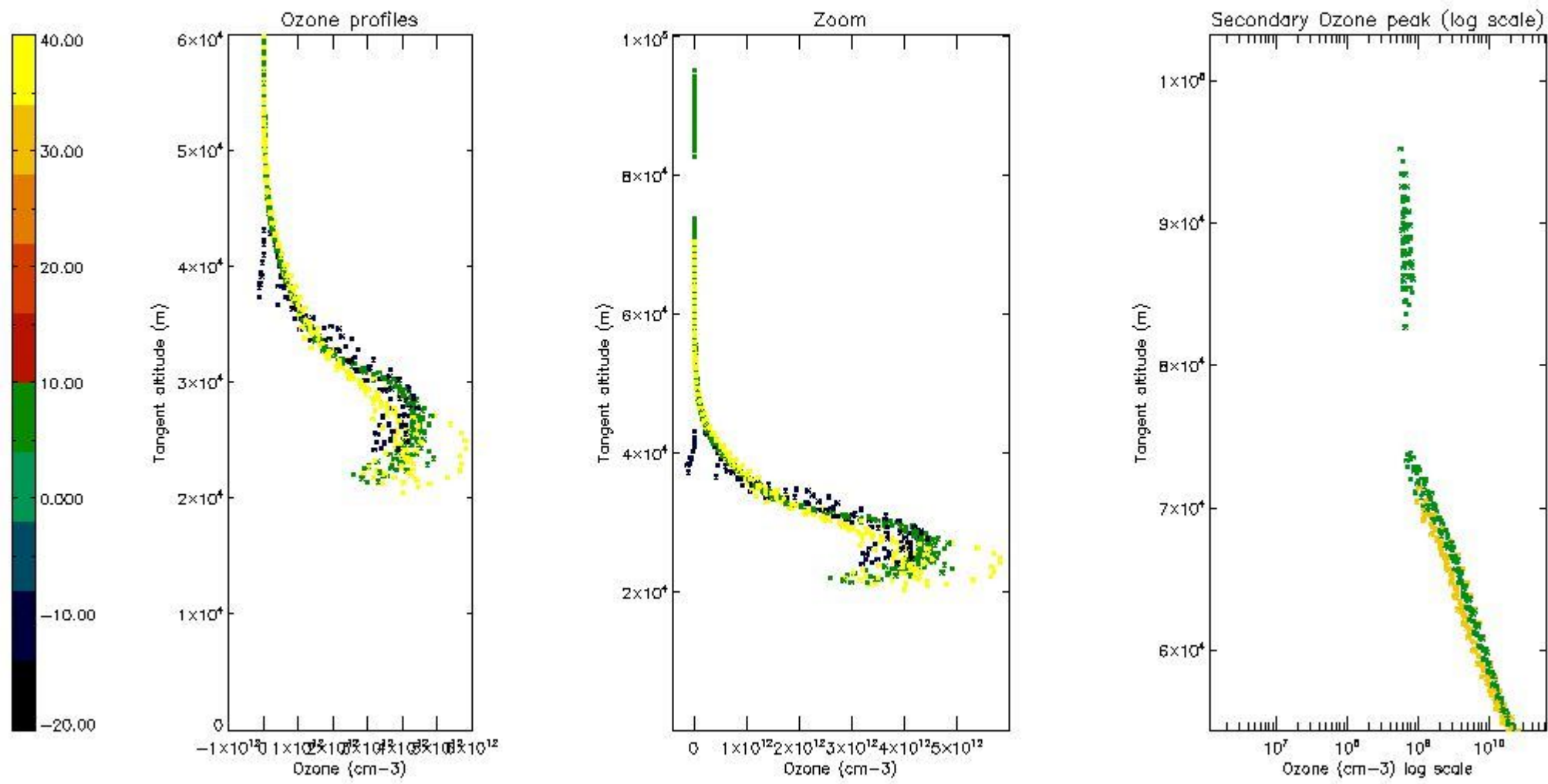
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



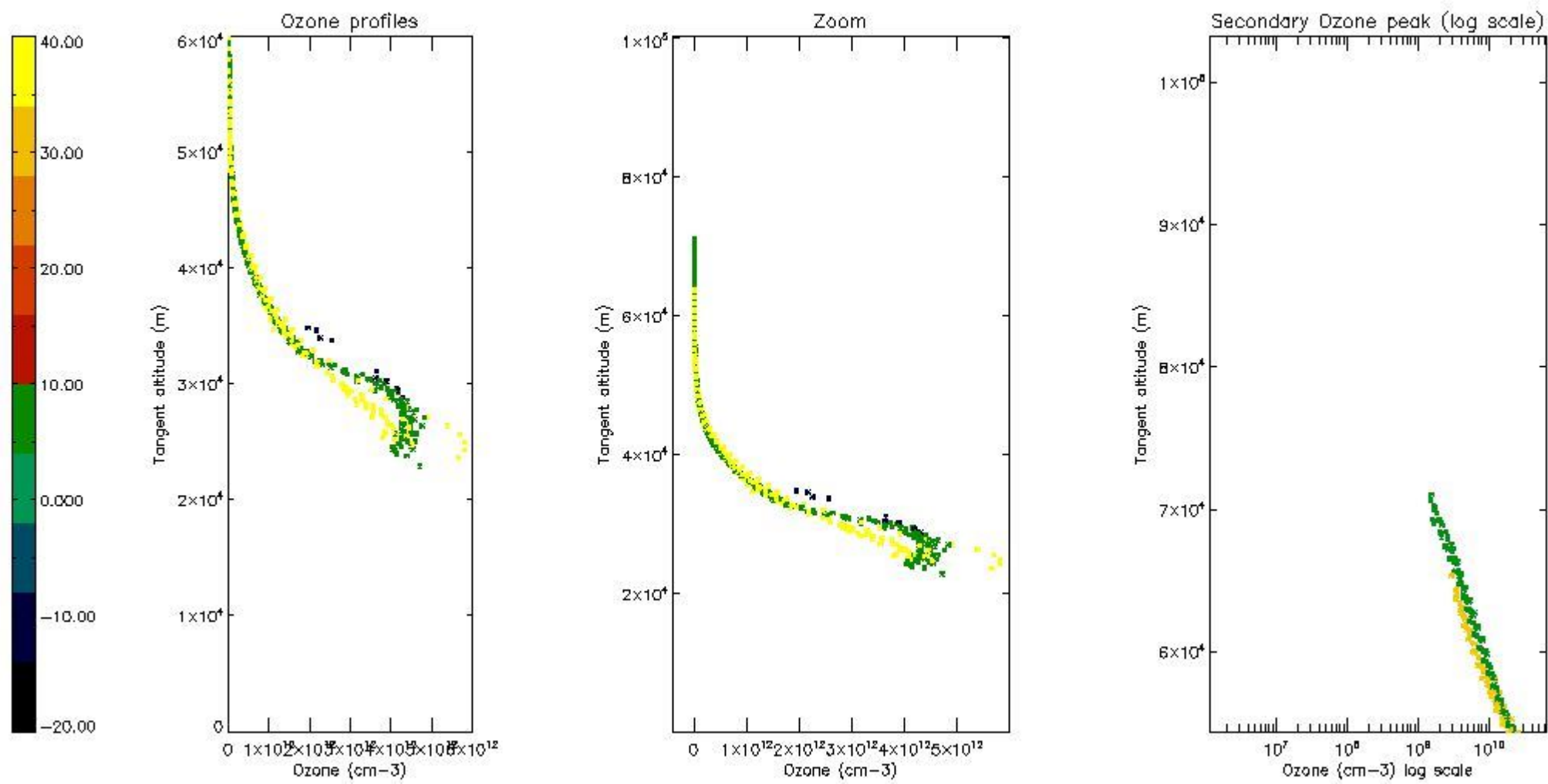
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



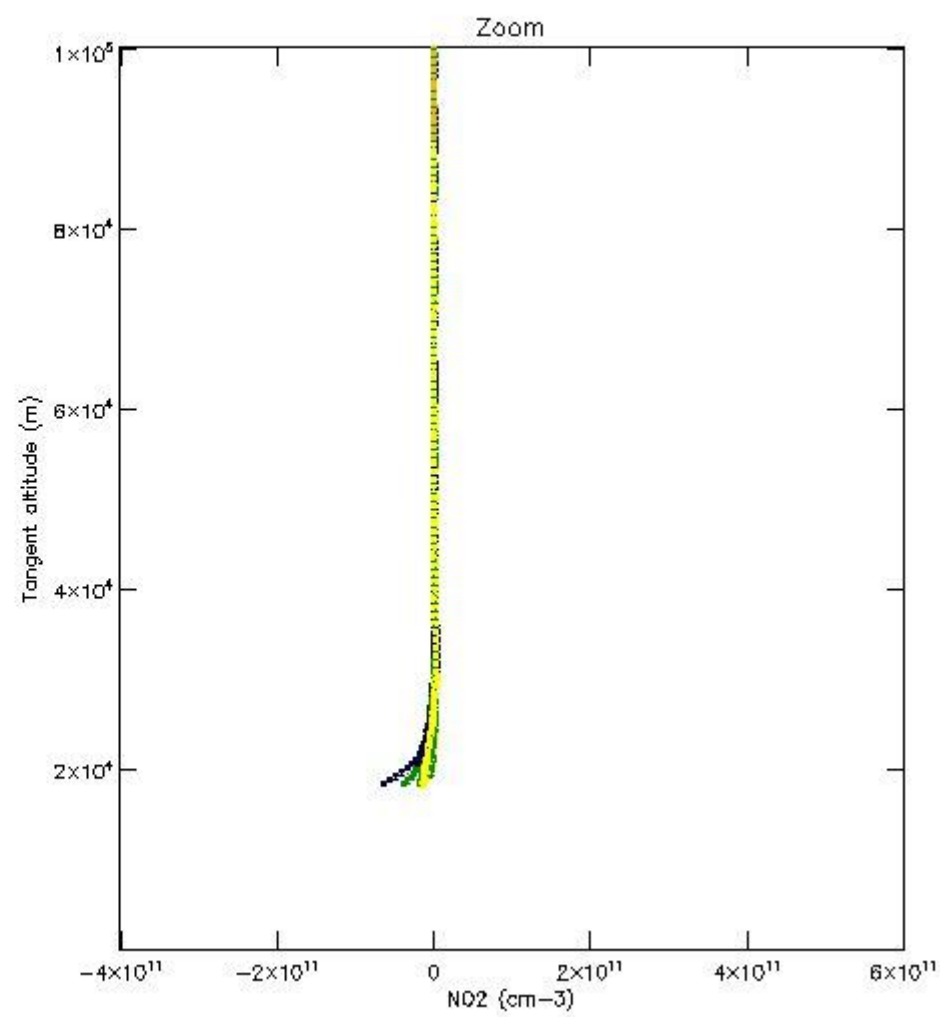
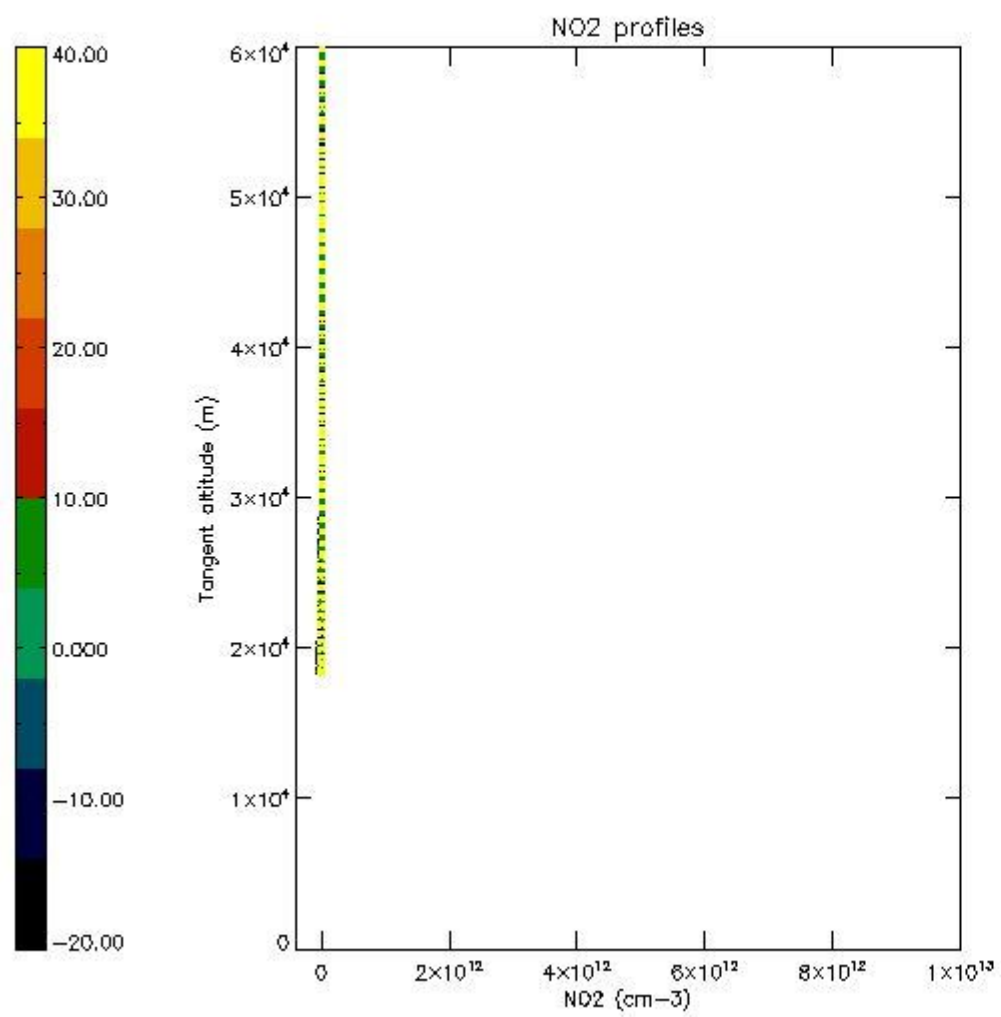
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



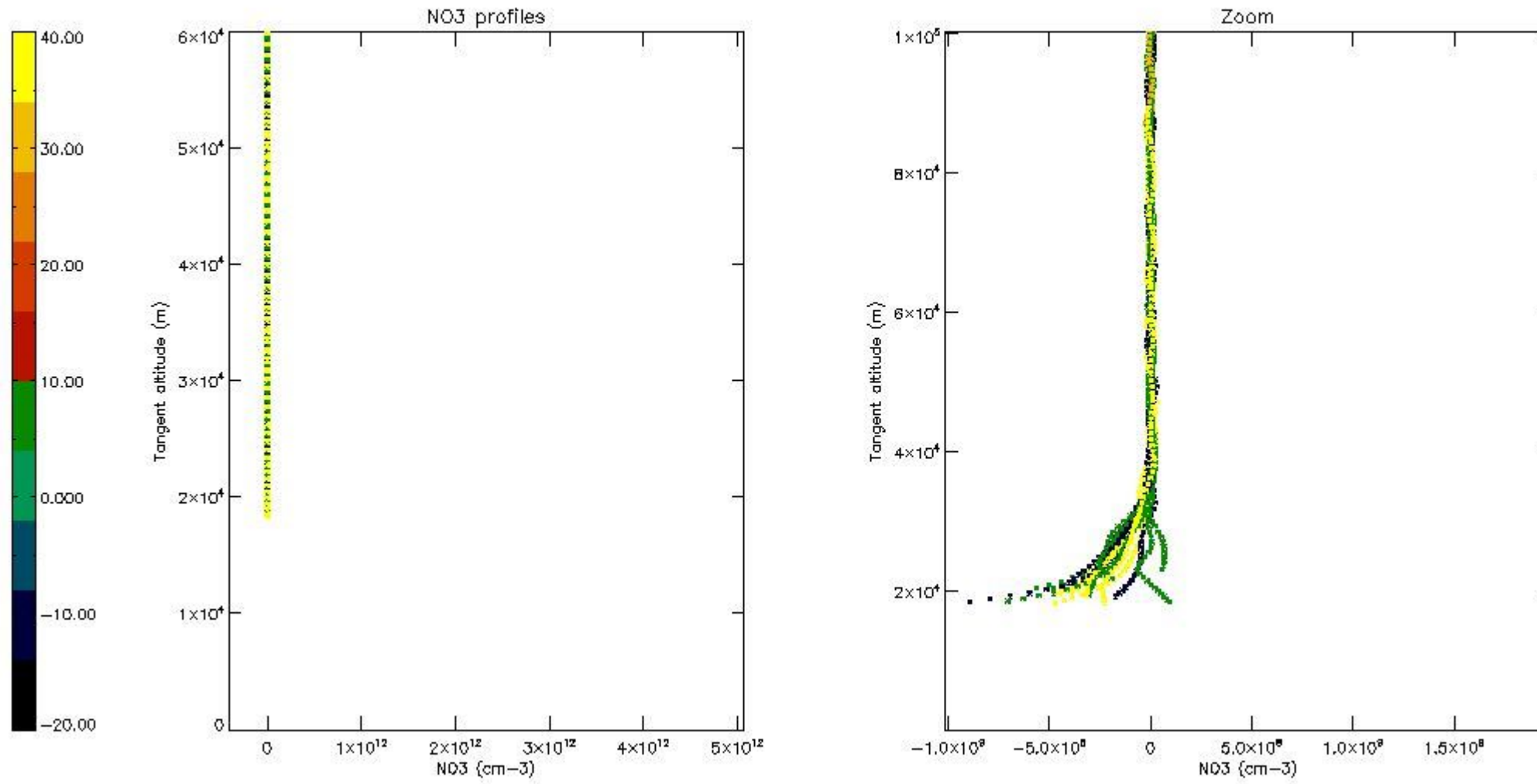
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	23-OCT-2011 09:49:36
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	23-OCT-2011 09:49:36
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	23-OCT-2011 09:49:36

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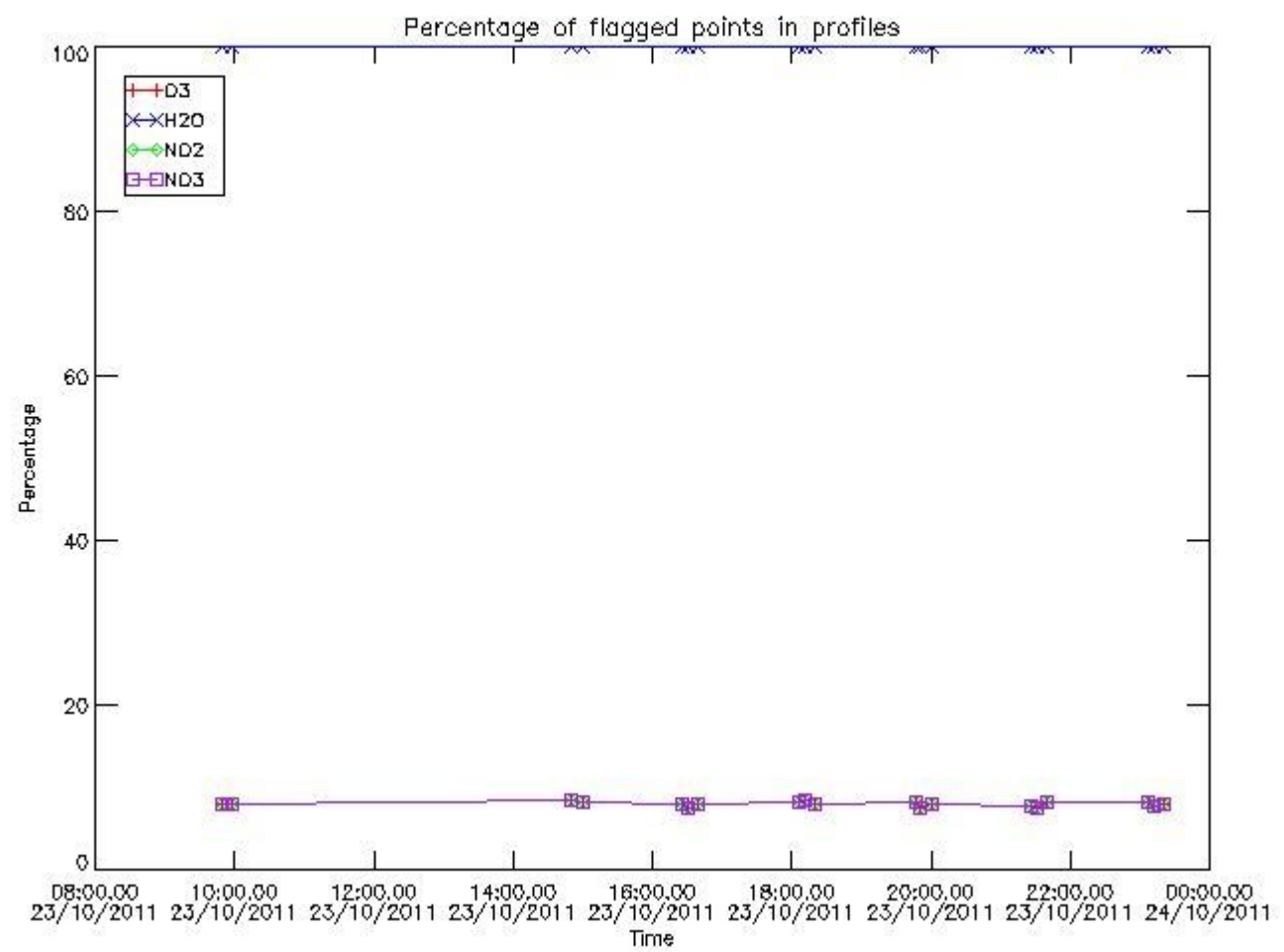
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3	GOM_NL__2PRFIN20111023_101938_000000593108_00008_50453_0296.N1	23-OCT-2011 10:19:38	Bright	58.500	94	92Alp Cet	2.5260	3100.0	117	50453	No
4	GOM_NL__2PRFIN20111023_145023_000000673108_00011_50456_0376.N1	23-OCT-2011 14:50:23	Dark	66.500	88	31Eta CMa	2.4480	20000.	133	50456	No
5	GOM_NL__2PRFIN20111023_145923_000000633108_00011_50456_0377.N1	23-OCT-2011 14:59:23	Dark	62.500	108	Alp Col	2.6520	15200.	125	50456	No
6	GOM_NL__2PRFIN20111023_152018_000000593108_00011_50456_0378.N1	23-OCT-2011 15:20:18	Bright	59.000	94	92Alp Cet	2.5260	3100.0	118	50456	No
7	GOM_NL__2PRFIN20111023_162550_000000643108_00011_50456_0379.N1	23-OCT-2011 16:25:50	Dark	64.000	132	15Rho Pup	2.8030	6900.0	128	50456	No
8	GOM_NL__2PRFIN20111023_163039_000000693108_00012_50457_0415.N1	23-OCT-2011 16:30:39	Dark	69.000	88	31Eta CMa	2.4480	20000.	138	50457	No
9	GOM_NL__2PRFIN20111023_163939_000000633108_00012_50457_0416.N1	23-OCT-2011 16:39:39	Dark	63.000	108	Alp Col	2.6520	15200.	126	50457	No
10	GOM_NL__2PRFIN20111023_170032_000000603108_00012_50457_0417.N1	23-OCT-2011 17:00:32	Bright	59.500	94	92Alp Cet	2.5260	3100.0	119	50457	No
11	GOM_NL__2PRFIN20111023_180606_000000623108_00012_50457_0418.N1	23-OCT-2011 18:06:06	Dark	61.500	132	15Rho Pup	2.8030	6900.0	123	50457	No
12	GOM_NL__2PRFIN20111023_181054_000000673108_00013_50458_0458.N1	23-OCT-2011 18:10:54	Dark	66.500	88	31Eta CMa	2.4480	20000.	133	50458	No
13	GOM_NL__2PRFIN20111023_181954_000000633108_00013_50458_0459.N1	23-OCT-2011 18:19:54	Dark	63.000	108	Alp Col	2.6520	15200.	126	50458	No
14	GOM_NL__2PRFIN20111023_184045_000000603108_00013_50458_0460.N1	23-OCT-2011 18:40:45	Bright	59.500	94	92Alp Cet	2.5260	3100.0	119	50458	No
15	GOM_NL__2PRFIN20111023_194621_000000623108_00013_50458_0461.N1	23-OCT-2011 19:46:21	Dark	62.000	132	15Rho Pup	2.8030	6900.0	124	50458	No
16	GOM_NL__2PRFIN20111023_195110_000000683108_00014_50459_0464.N1	23-OCT-2011 19:51:10	Dark	68.000	88	31Eta CMa	2.4480	20000.	136	50459	No
17	GOM_NL__2PRFIN20111023_200009_000000633108_00014_50459_0465.N1	23-OCT-2011 20:00:09	Dark	63.000	108	Alp Col	2.6520	15200.	126	50459	No
18	GOM_NL__2PRFIN20111023_202058_000000613108_00014_50459_0466.N1	23-OCT-2011 20:20:58	Bright	60.500	94	92Alp Cet	2.5260	3100.0	121	50459	No
19	GOM_NL__2PRFIN20111023_212637_000000663108_00014_50459_0467.N1	23-OCT-2011 21:26:37	Dark	65.500	132	15Rho Pup	2.8030	6900.0	131	50459	No
20	GOM_NL__2PRFIN20111023_213126_000000693108_00015_50460_0490.N1	23-OCT-2011 21:31:26	Dark	69.000	88	31Eta CMa	2.4480	20000.	138	50460	No
21	GOM_NL__2PRFIN20111023_214024_000000623108_00015_50460_0491.N1	23-OCT-2011 21:40:24	Dark	61.500	108	Alp Col	2.6520	15200.	123	50460	No
22	GOM_NL__2PRFIN20111023_220112_000000613108_00015_50460_0492.N1	23-OCT-2011 22:01:12	Bright	61.000	94	92Alp Cet	2.5260	3100.0	122	50460	No
23	GOM_NL__2PRFIN20111023_230652_000000633108_00015_50460_0493.N1	23-OCT-2011 23:06:52	Dark	63.000	132	15Rho Pup	2.8030	6900.0	126	50460	No
24	GOM_NL__2PRFIN20111023_231141_000000663108_00016_50461_0502.N1	23-OCT-2011 23:11:41	Dark	65.500	88	31Eta CMa	2.4480	20000.	131	50461	No
25	GOM_NL__2PRFIN20111023_232039_000000653108_00016_50461_0503.N1	23-OCT-2011 23:20:39	Dark	64.500	108	Alp Col	2.6520	15200.	129	50461	No
26	GOM_NL__2PRFIN20111023_234125_000000613108_00016_50461_0504.N1	23-OCT-2011 23:41:25	Bright	61.000	94	92Alp Cet	2.5260	3100.0	122	50461	No

3. Quality information per product

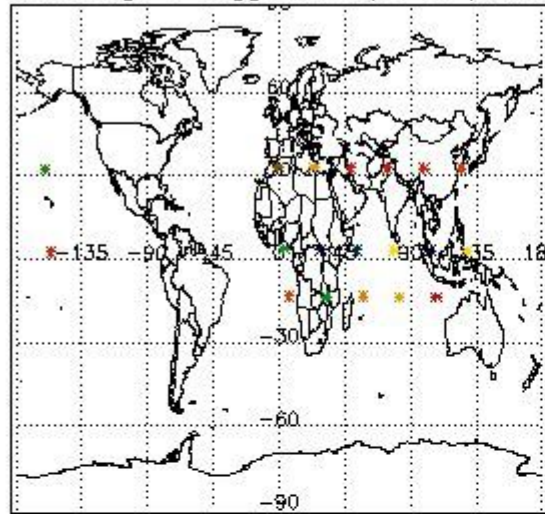
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

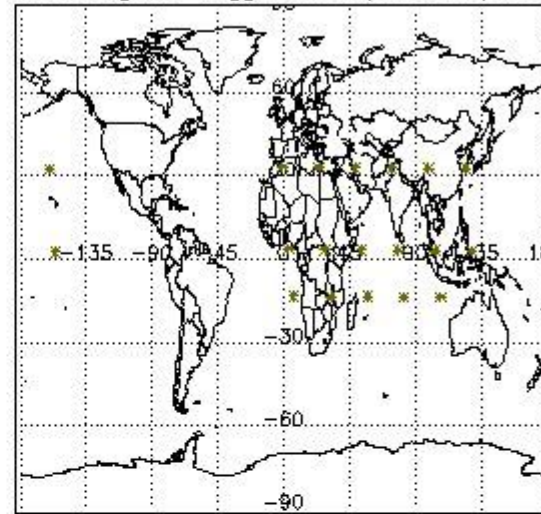


3.2 Plot quality information per product (world map)

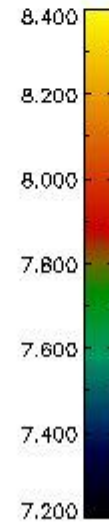
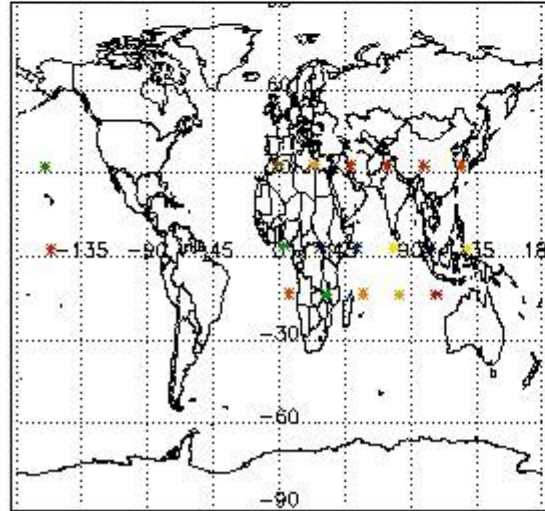
Percentage of flagged data per O3 profile



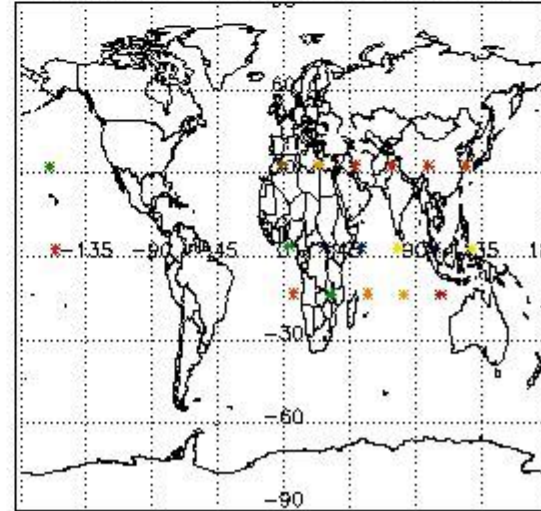
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

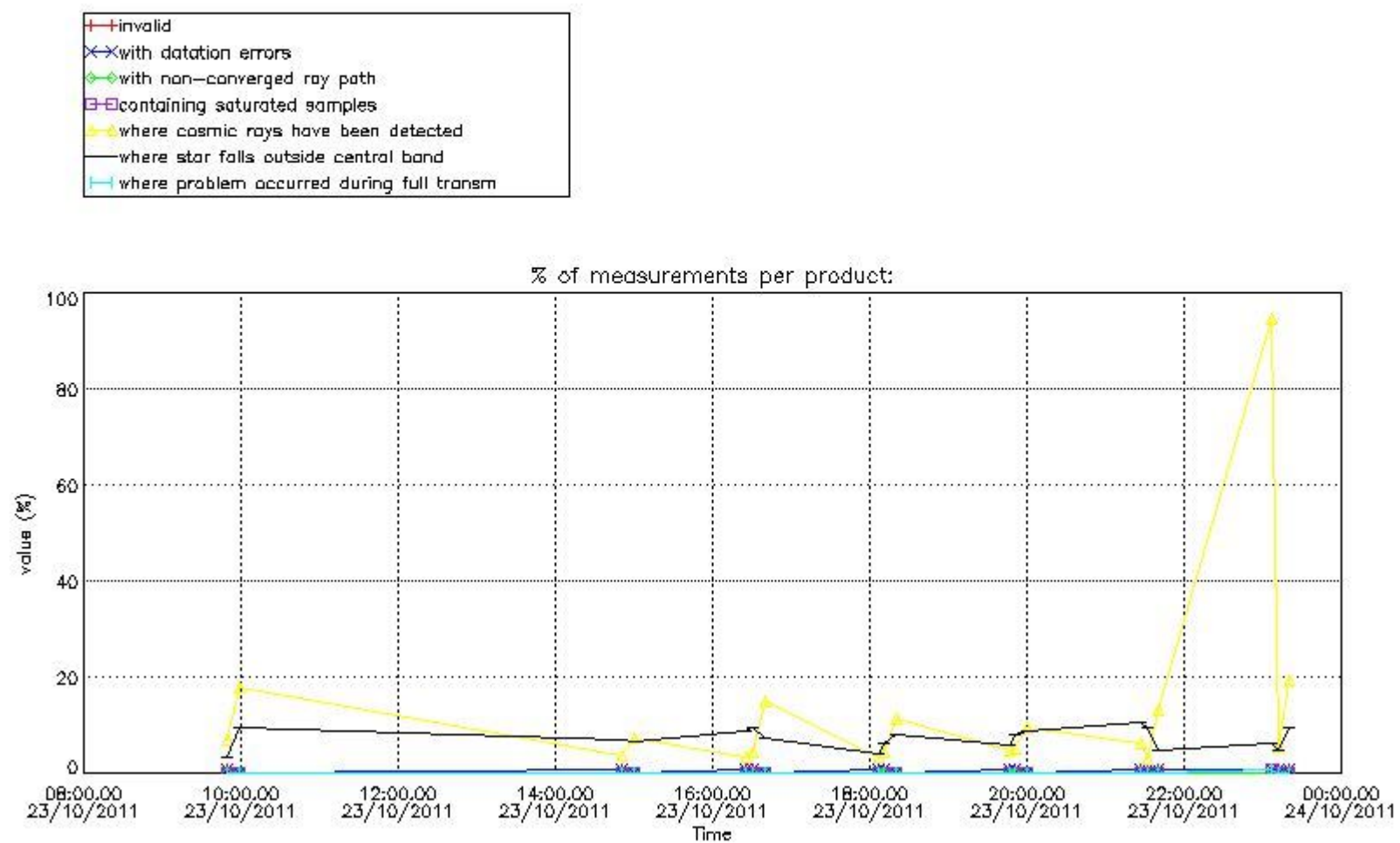


4. Level 1 quality information per product

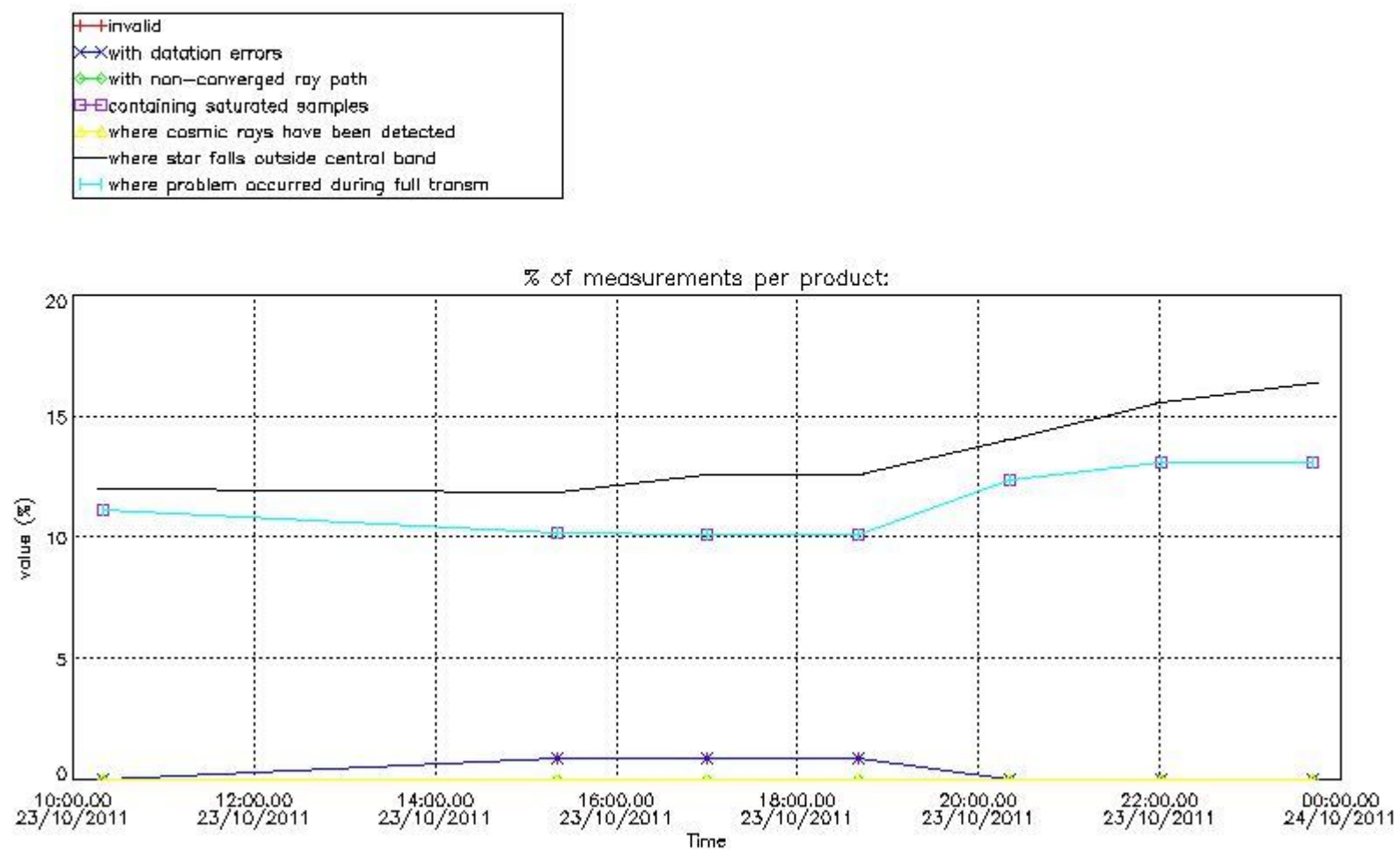
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



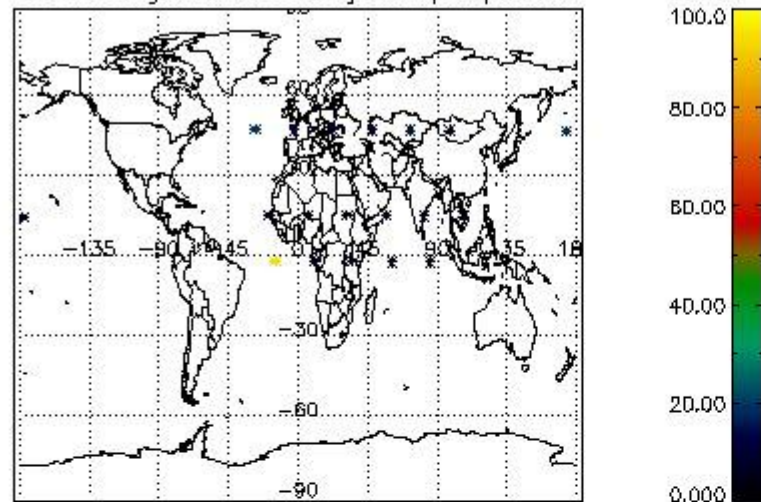
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



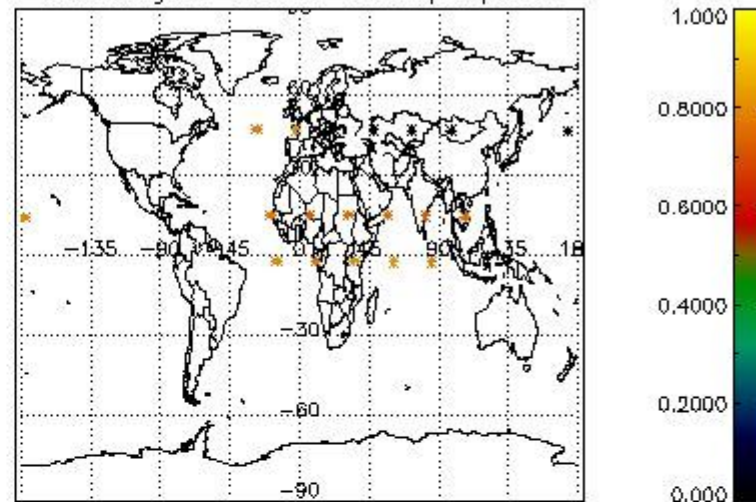
4.2 Plot quality information per product coming from level 1b processing (world map)

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

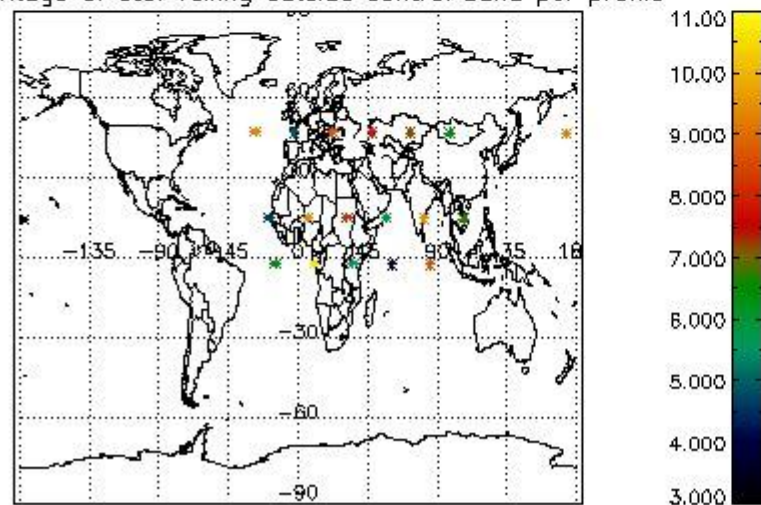
Percentage of cosmic ray hits per profile



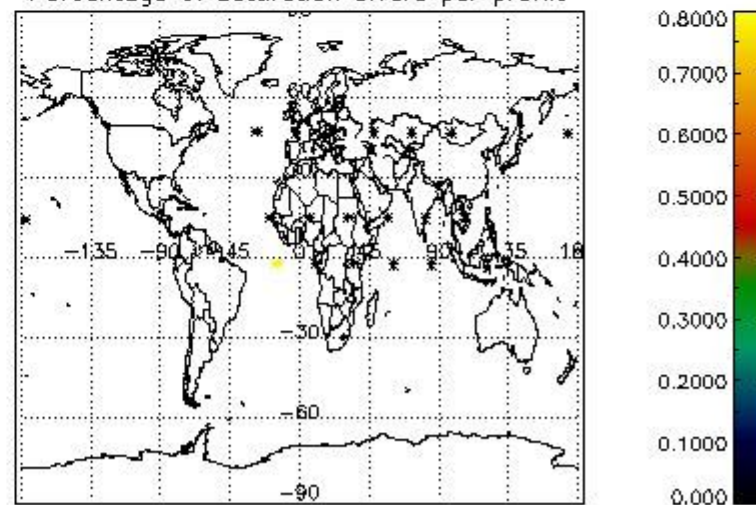
Percentage of datation errors per profile



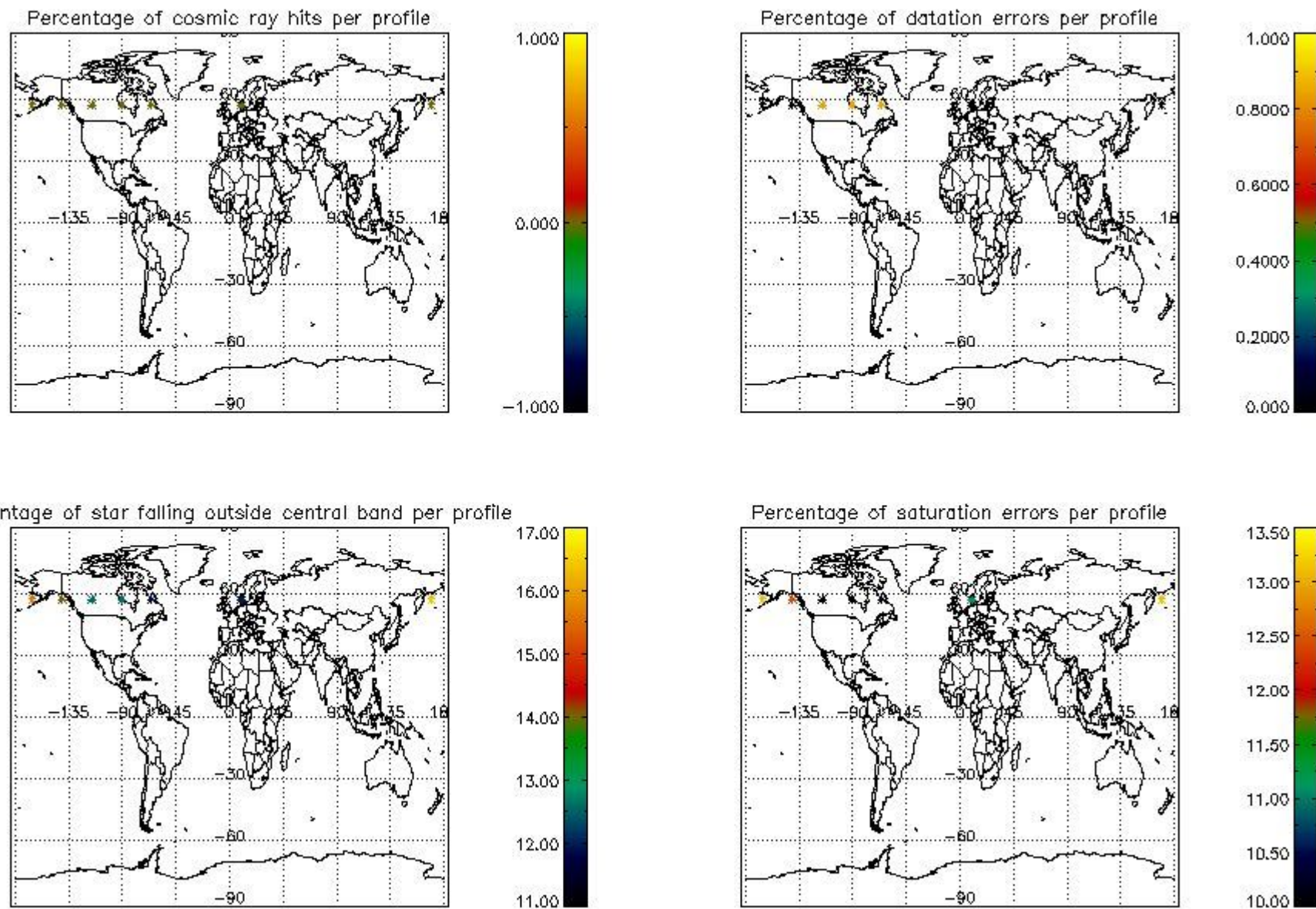
Percentage of star falling outside central band per profile



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

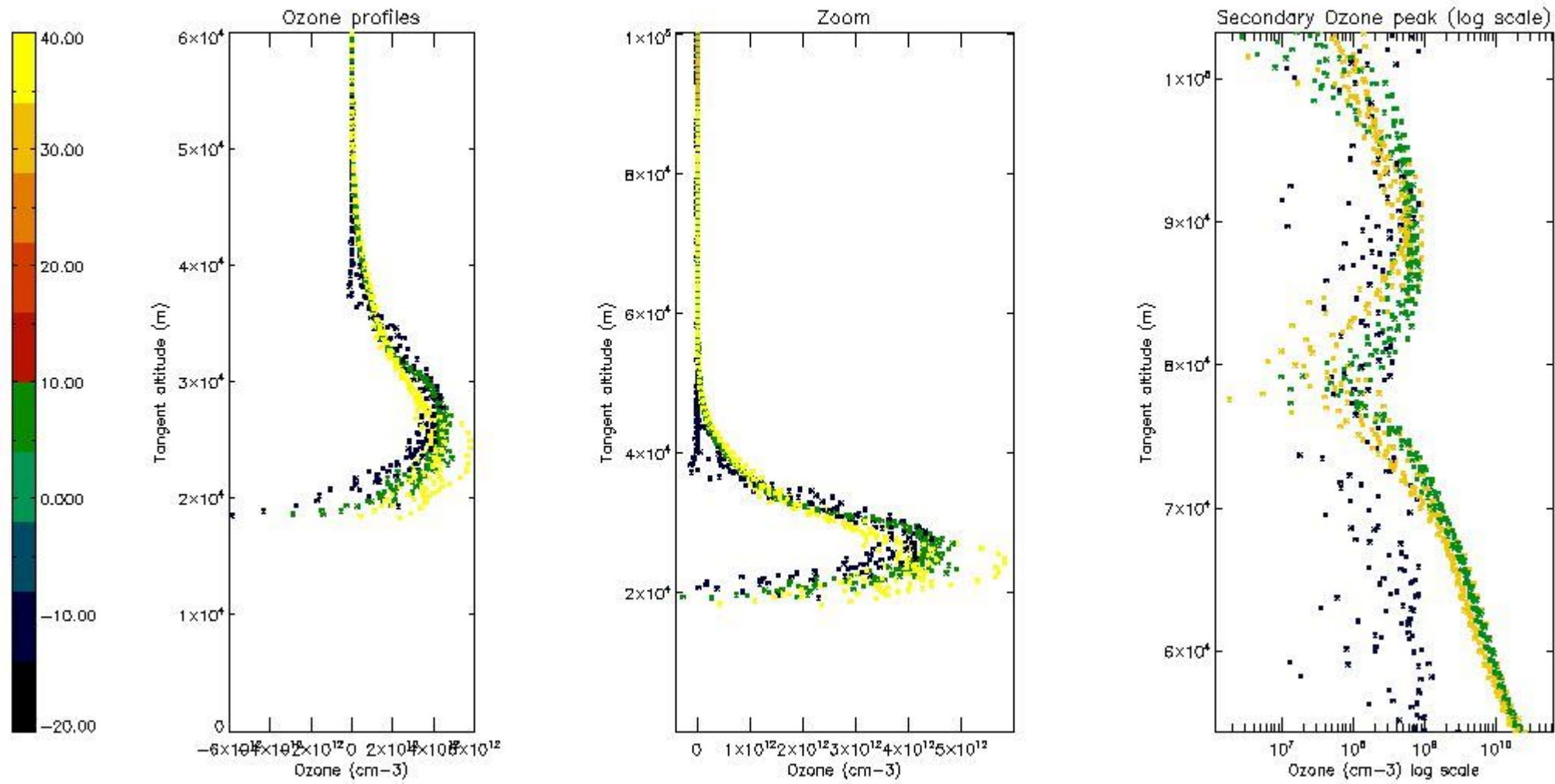
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	75
STD < 20	40

STD < 10	33
STD < 5	22

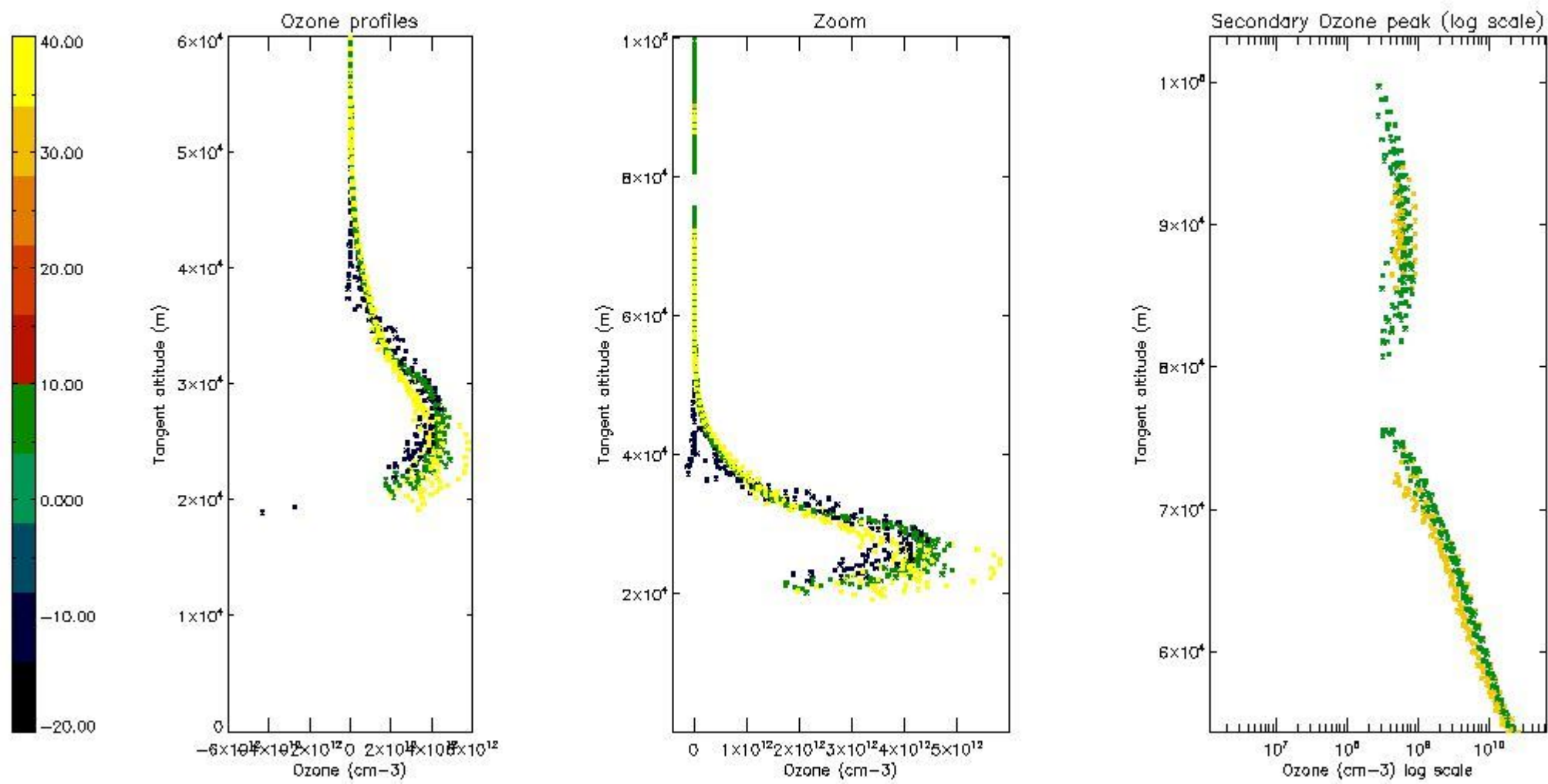
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



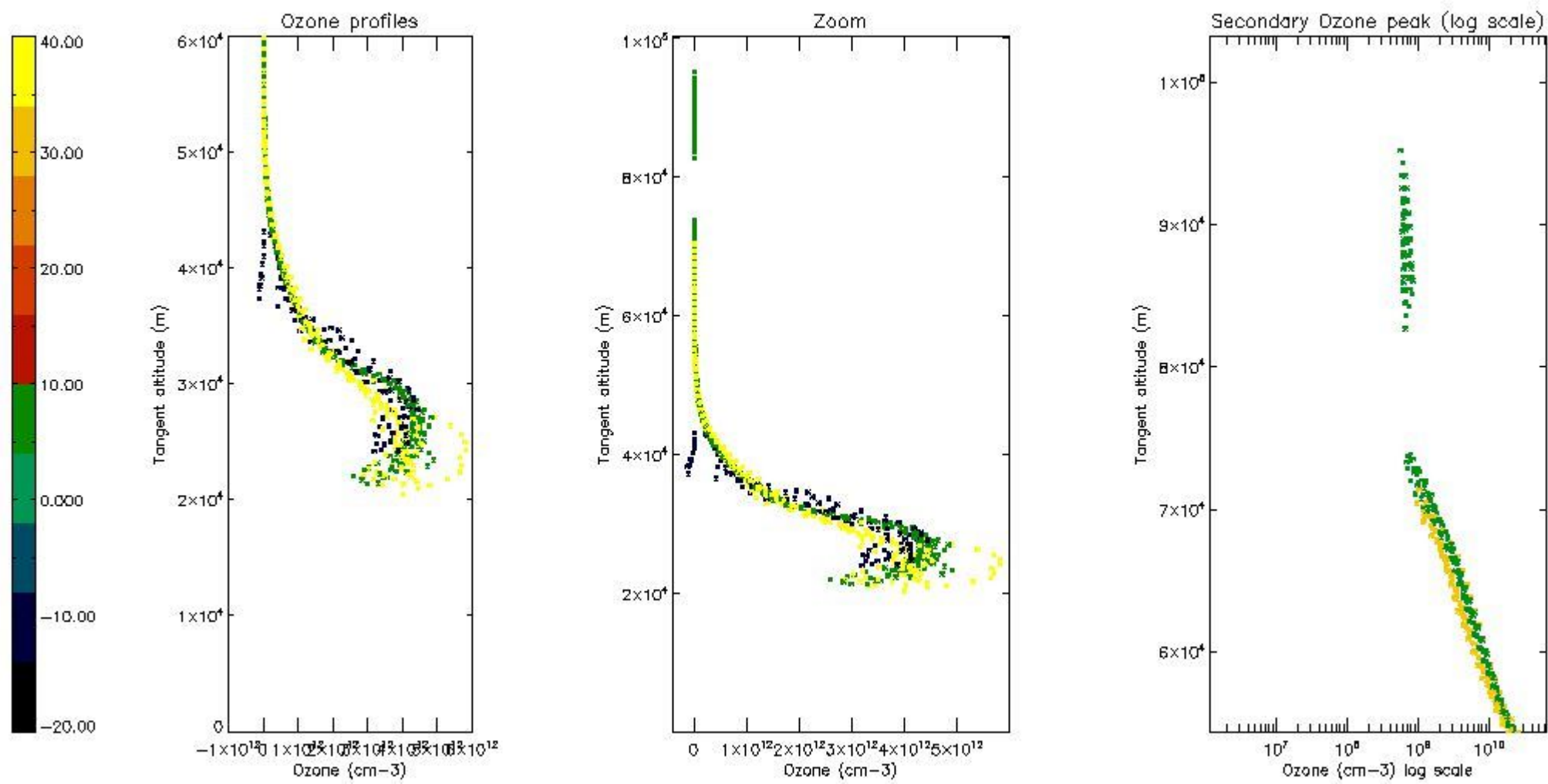
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



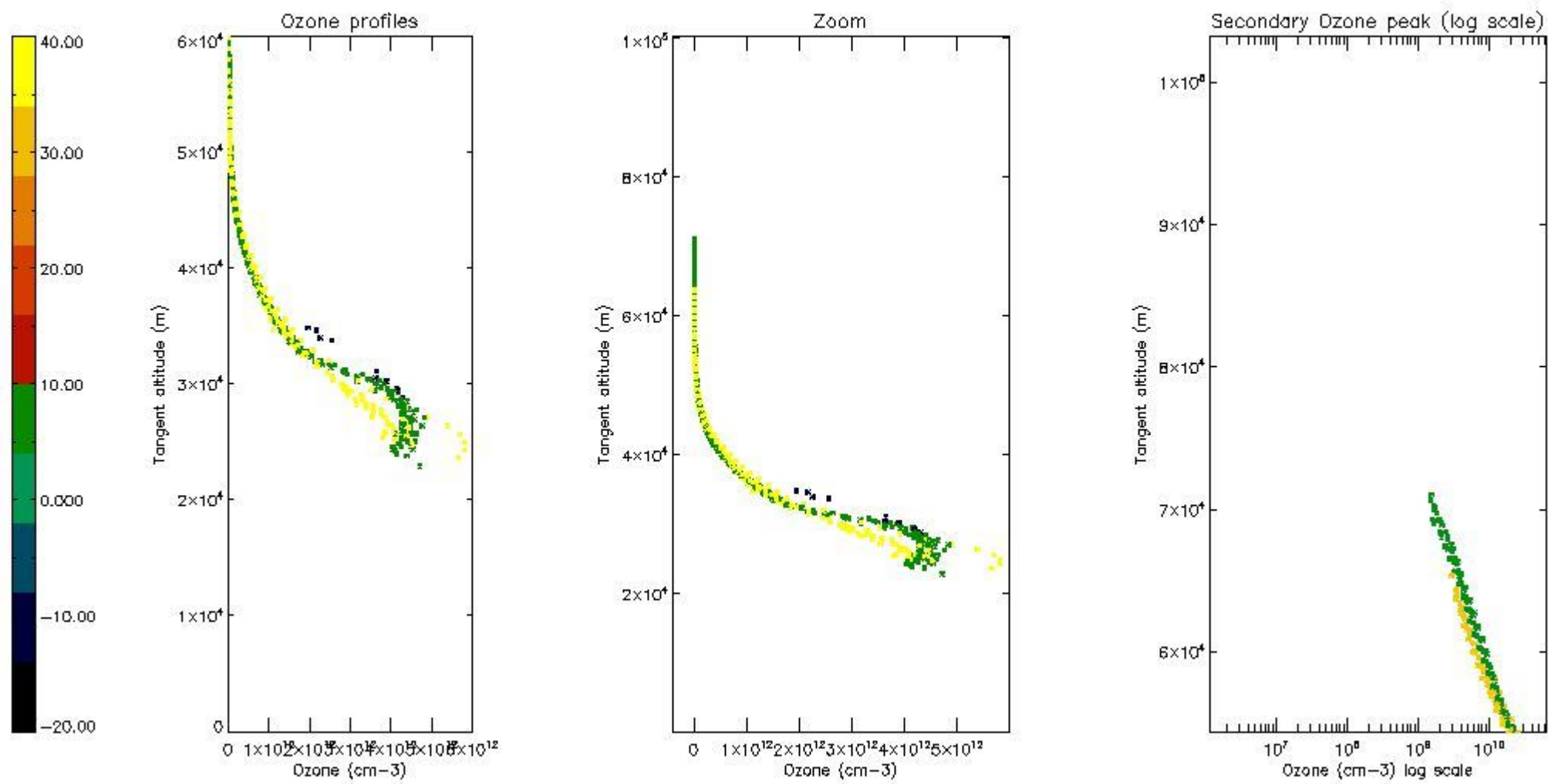
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



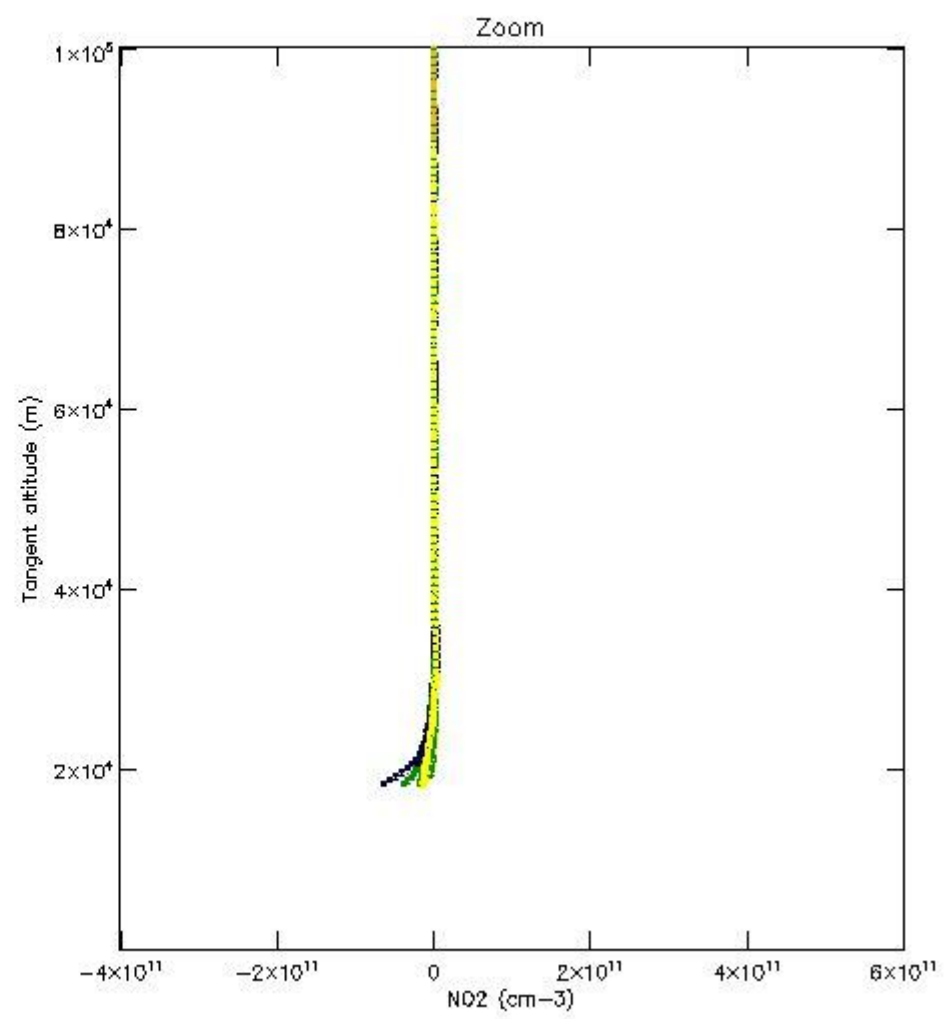
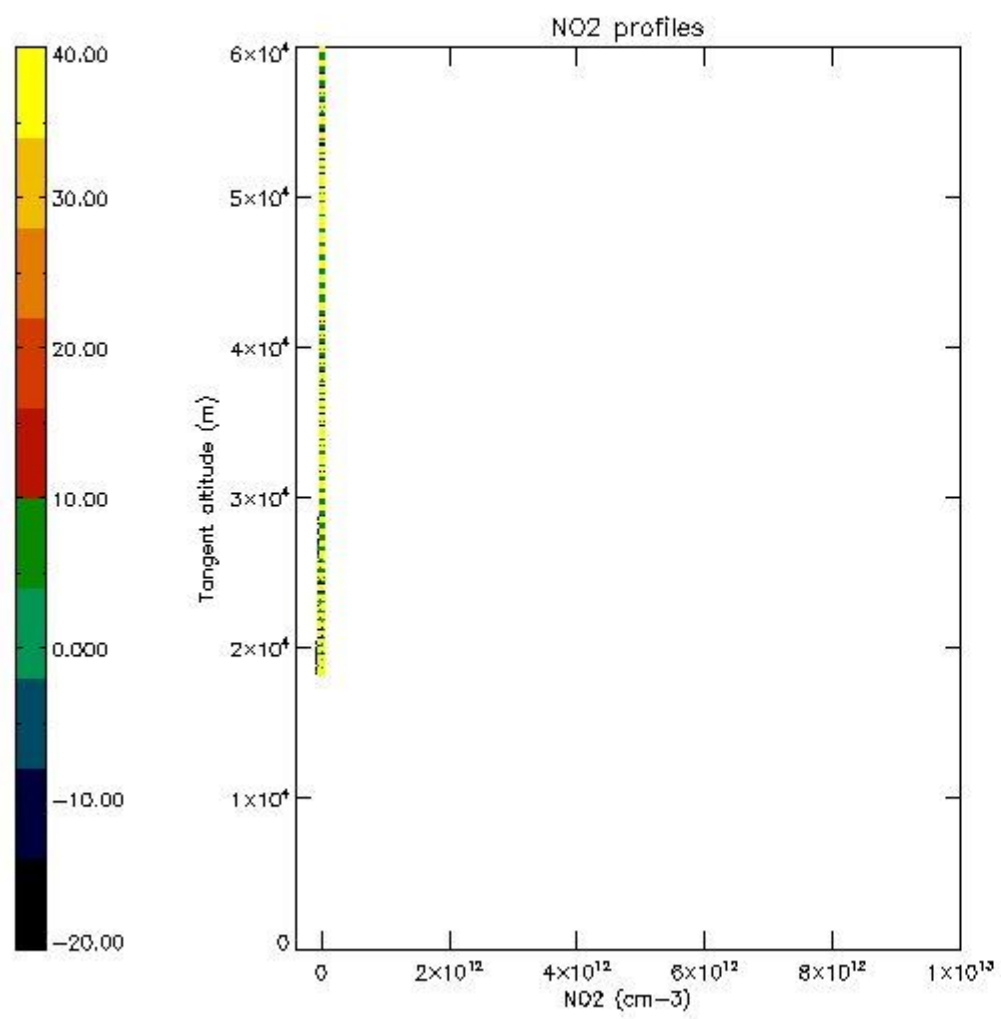
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



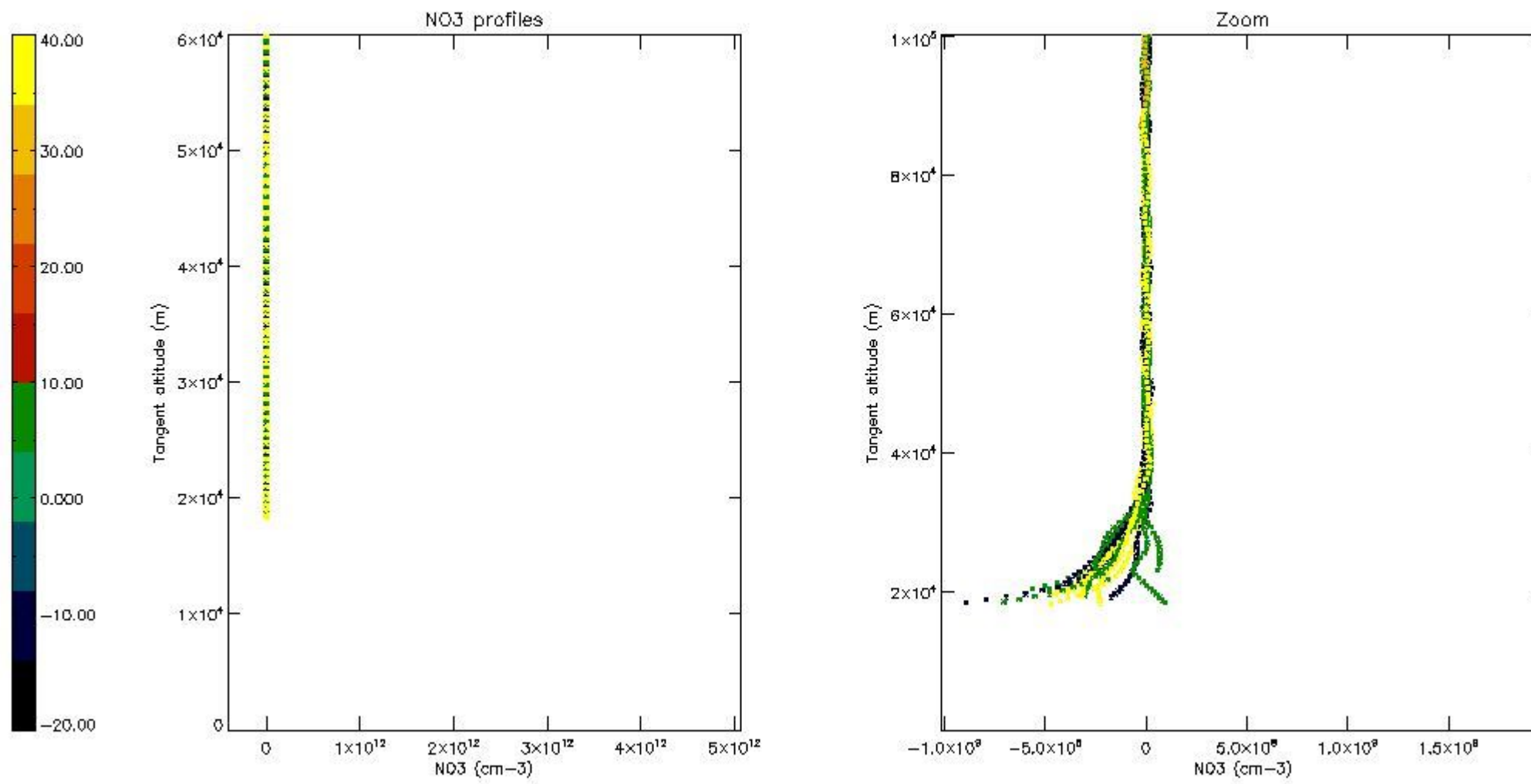
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

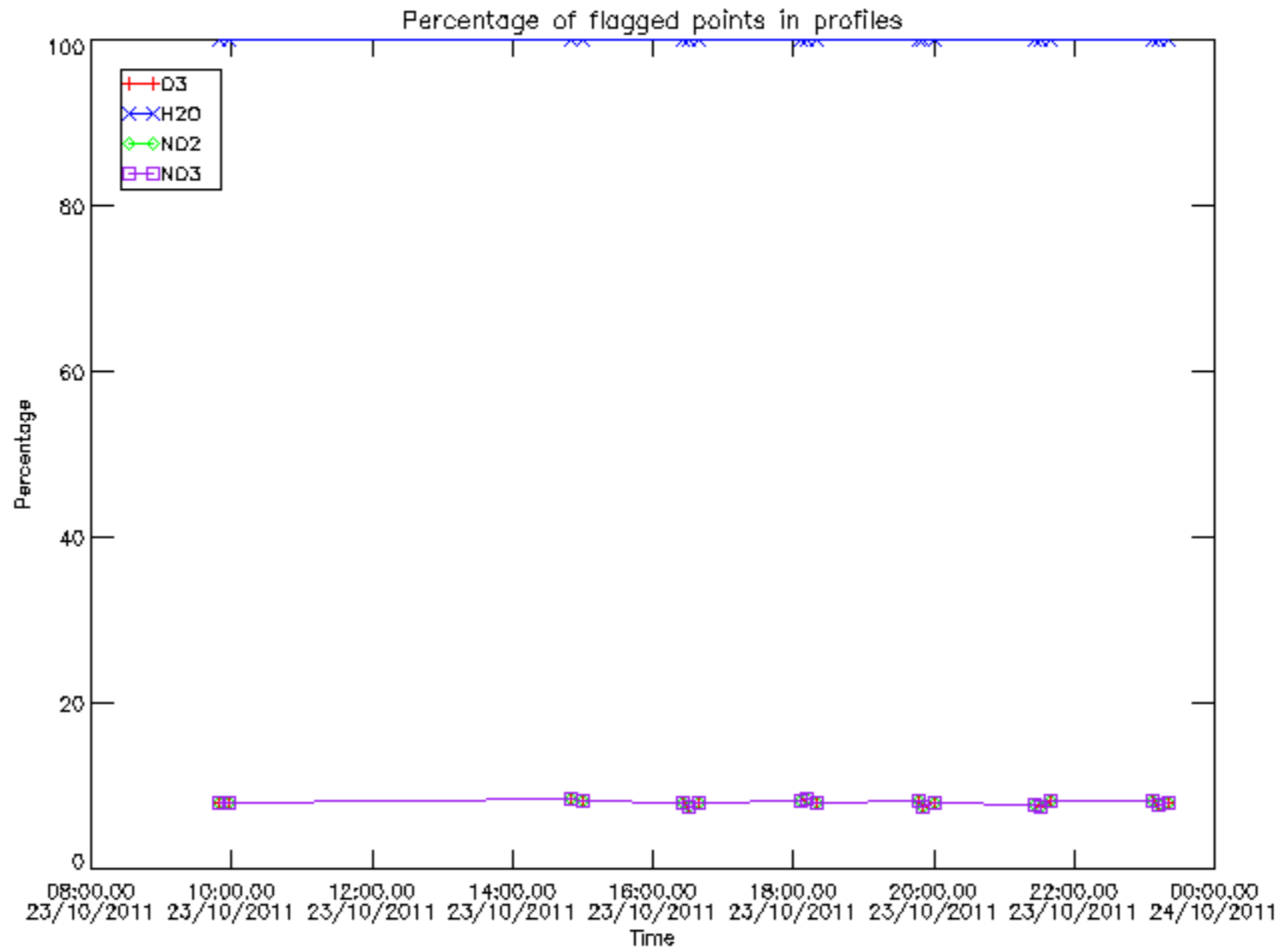
The colorbar represents the latitude.



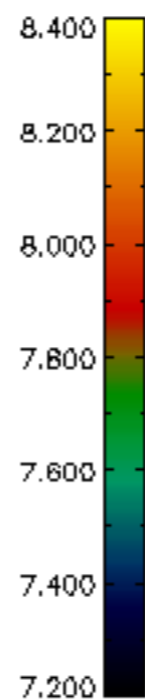
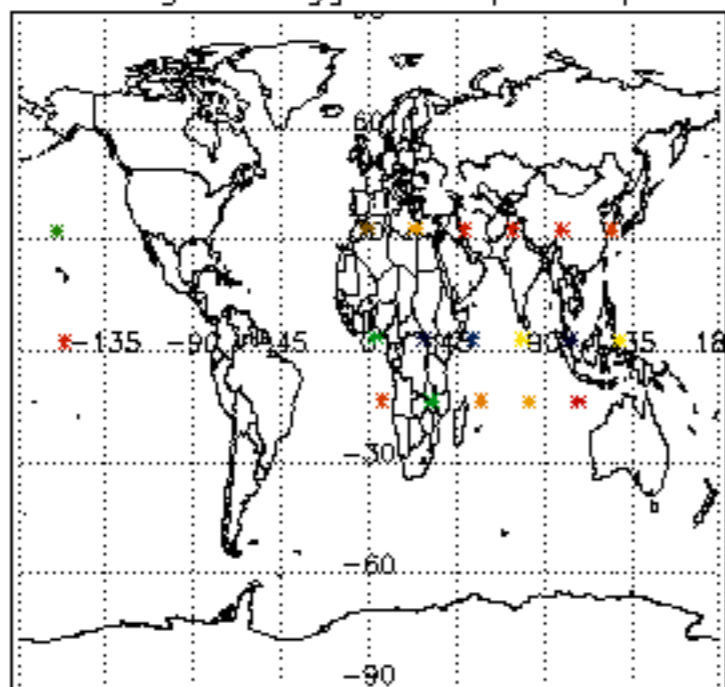
6. Auxiliary Data Files used for the production reported in section 2

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.

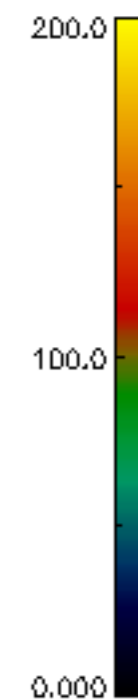
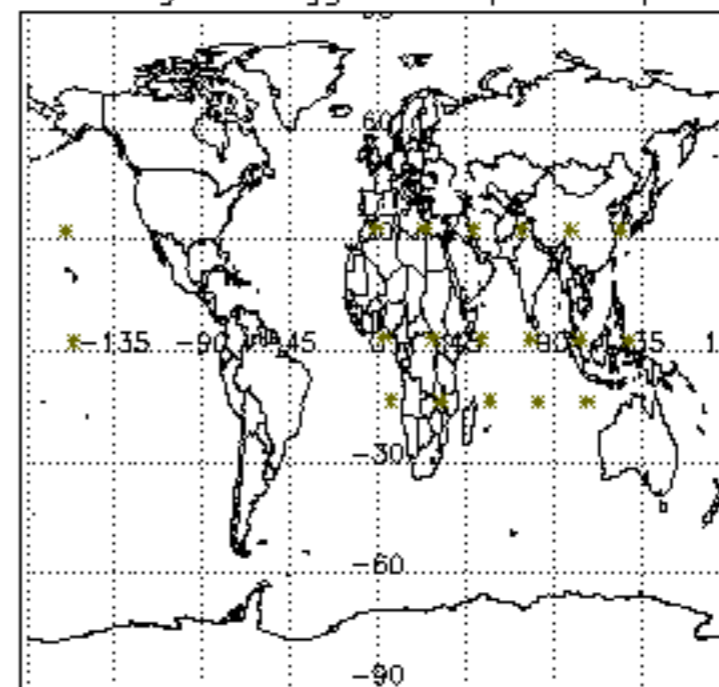
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	23-OCT-2011 09:49:36
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	23-OCT-2011 09:49:36
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	23-OCT-2011 09:49:36



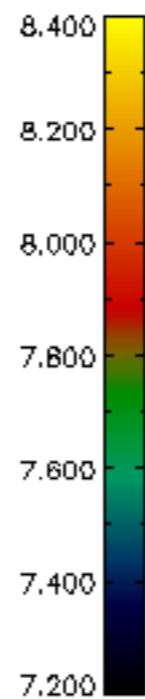
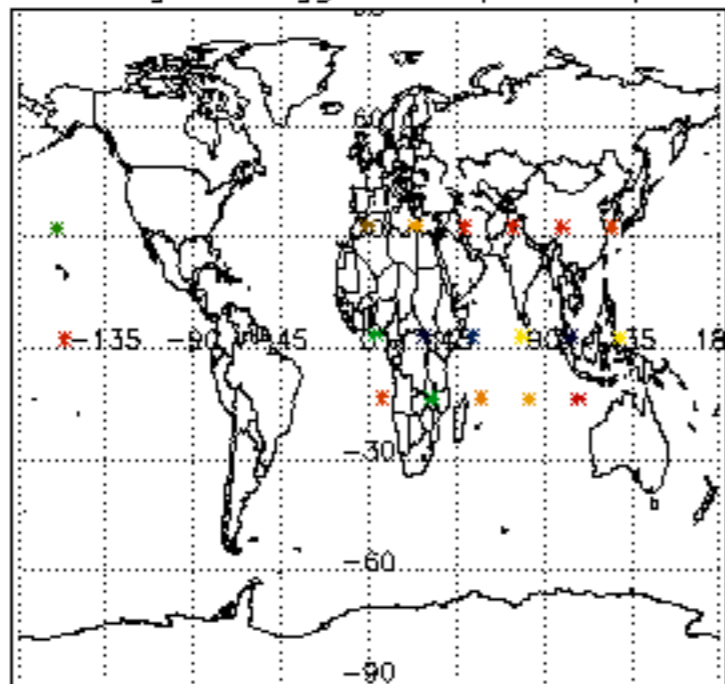
Percentage of flagged data per D3 profile



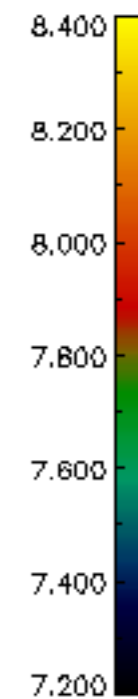
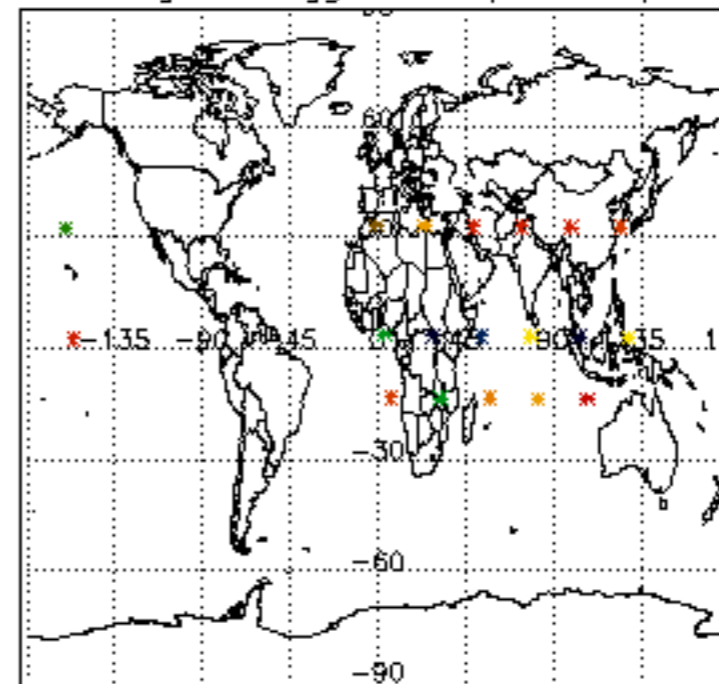
Percentage of flagged data per H2O profile

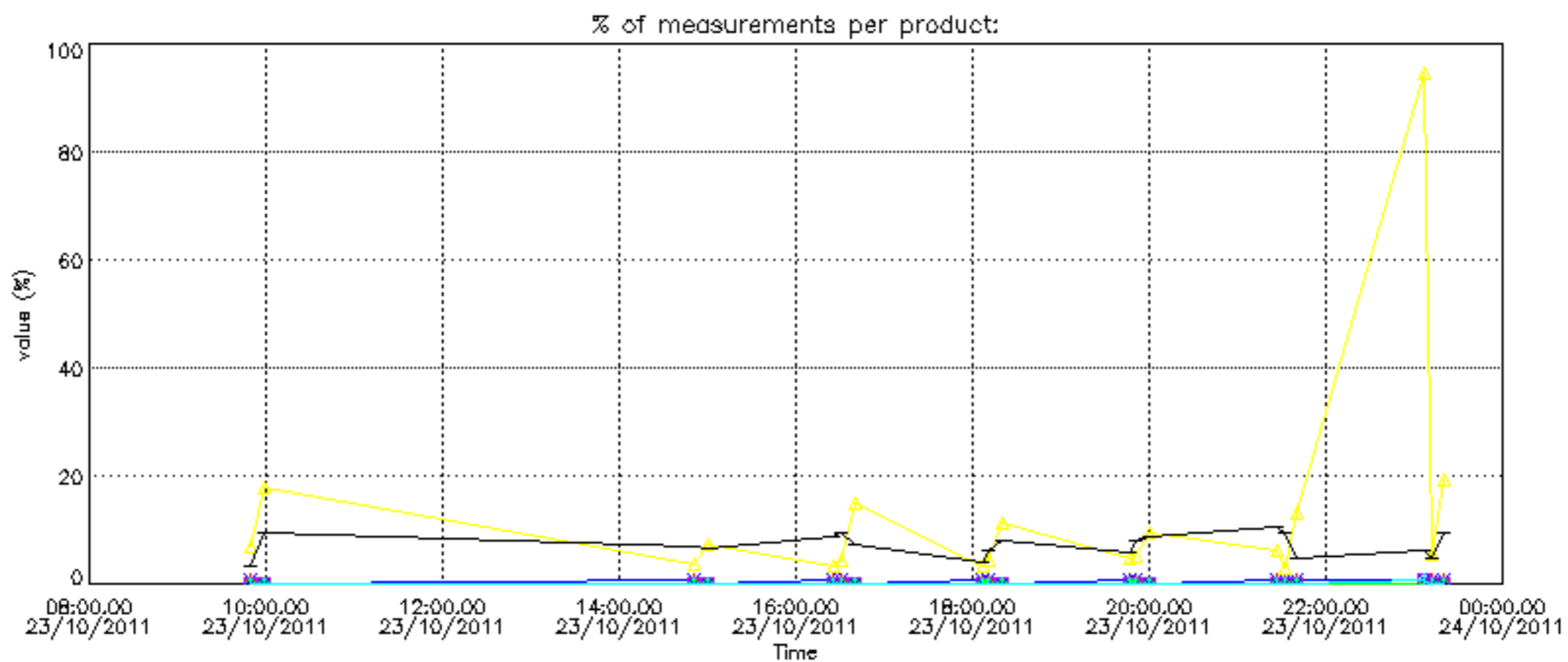


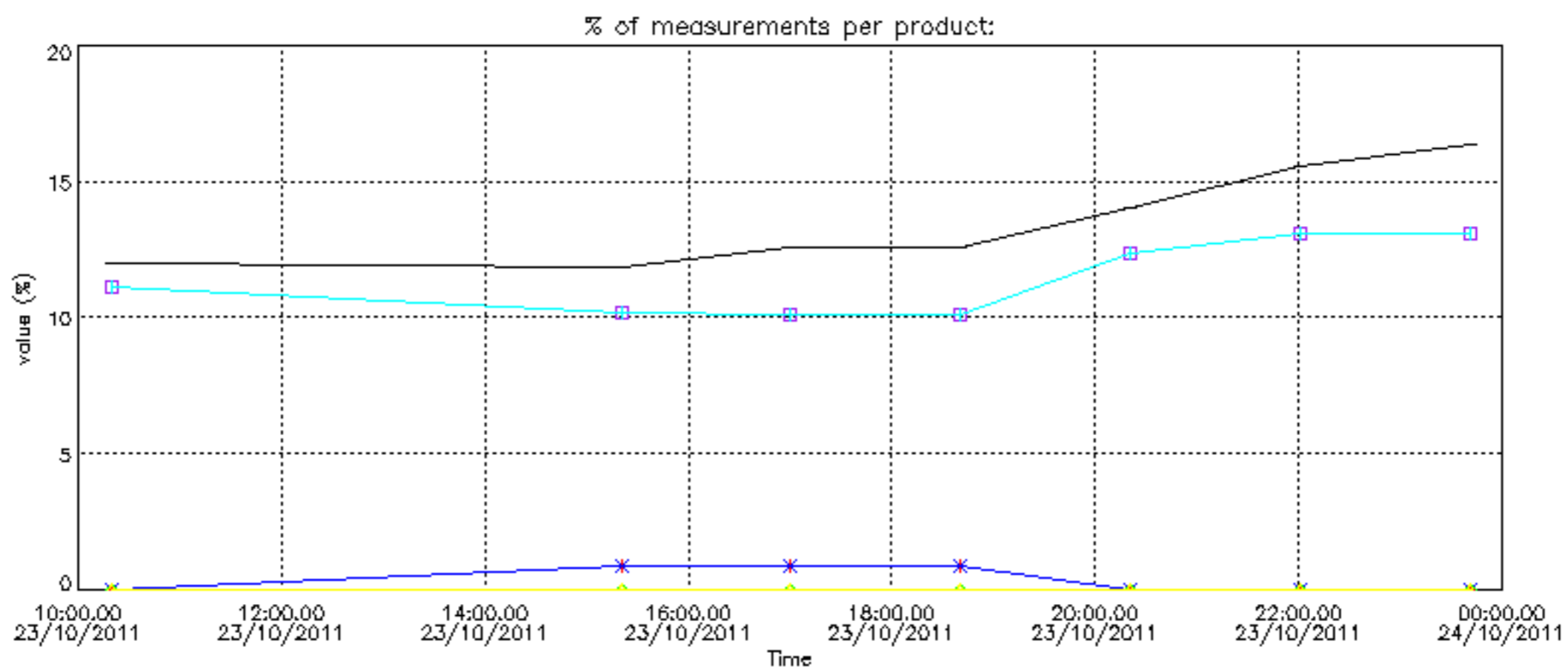
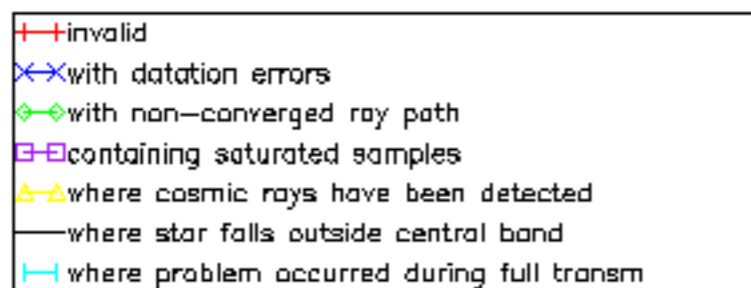
Percentage of flagged data per NO2 profile



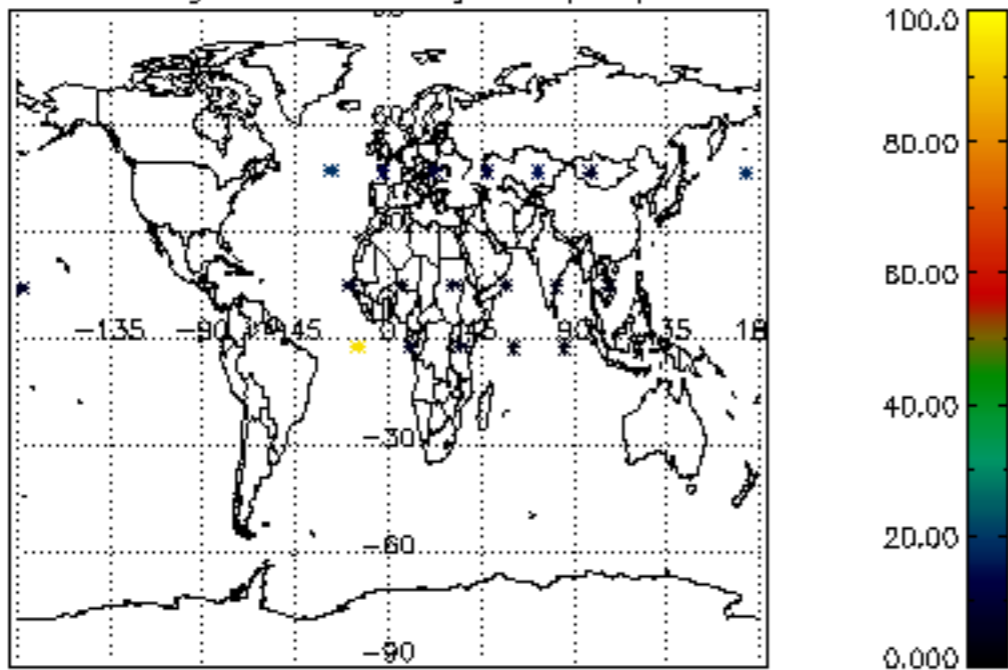
Percentage of flagged data per NO3 profile



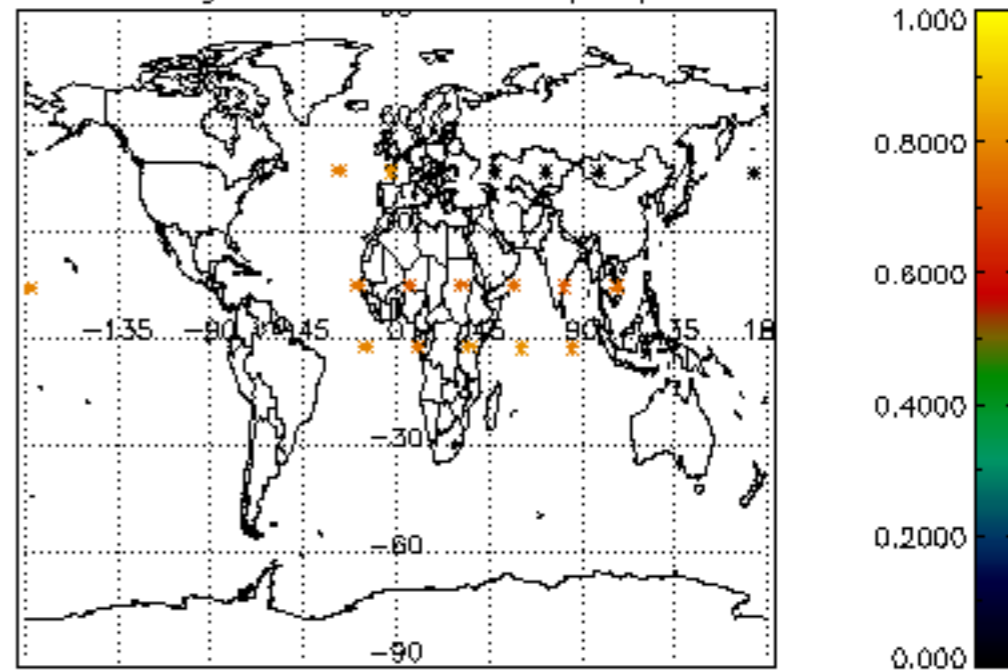




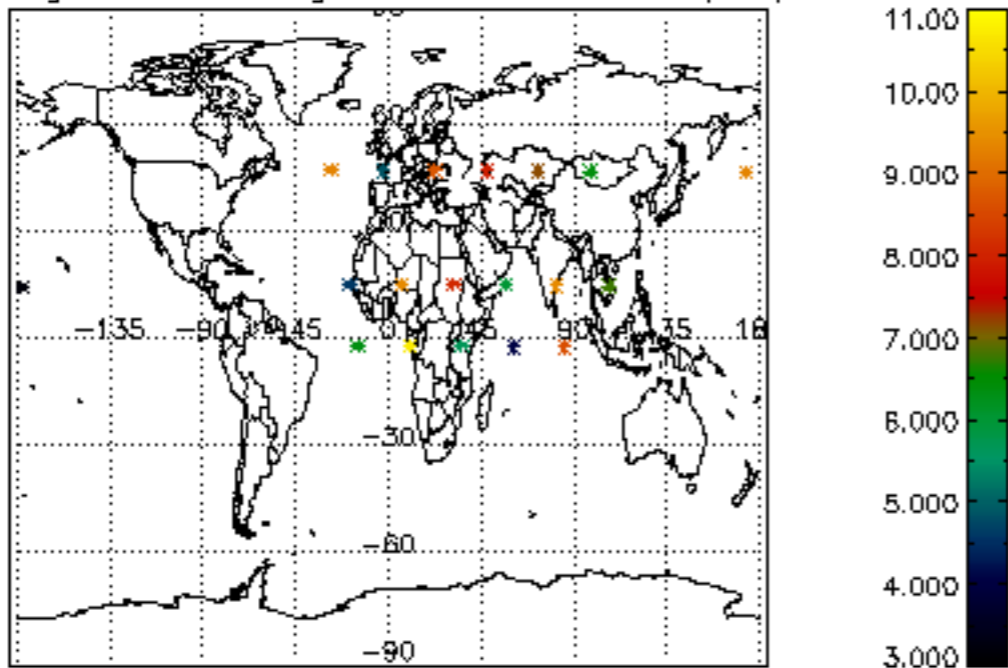
Percentage of cosmic ray hits per profile



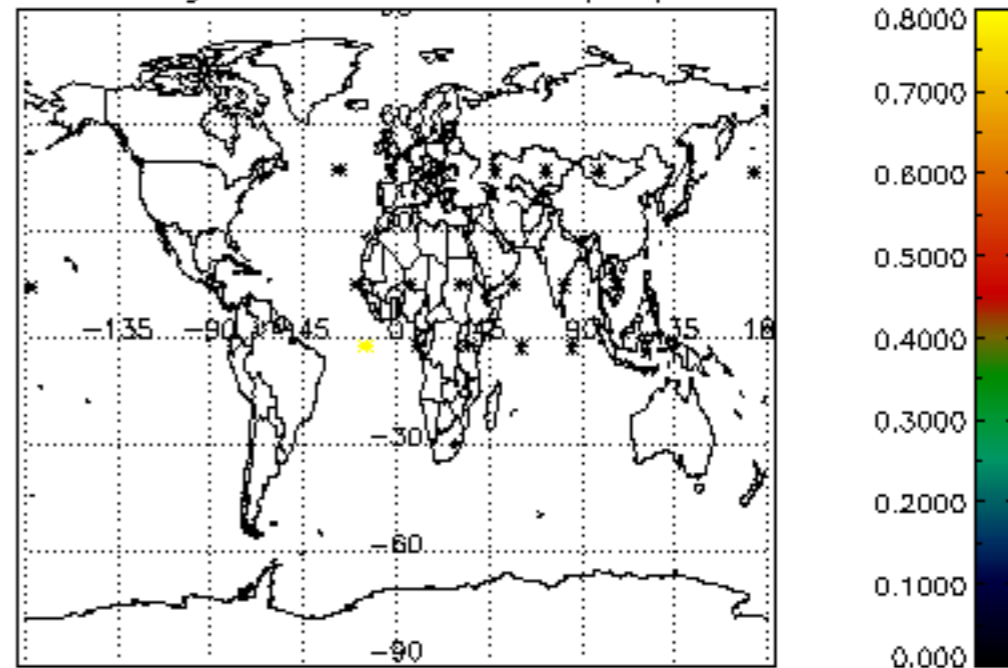
Percentage of datation errors per profile



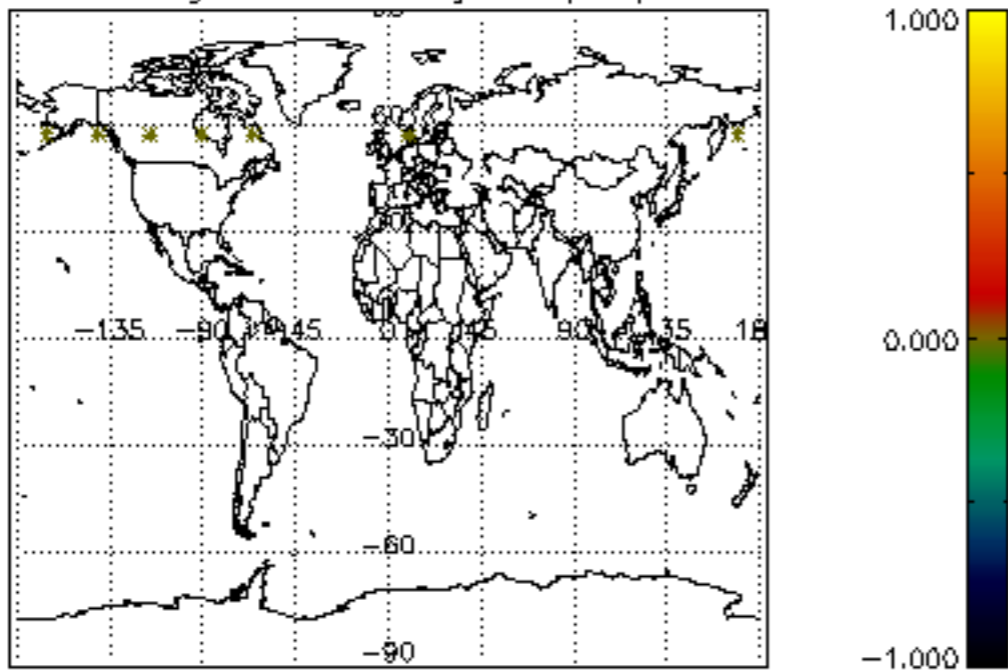
Percentage of star falling outside central band per profile



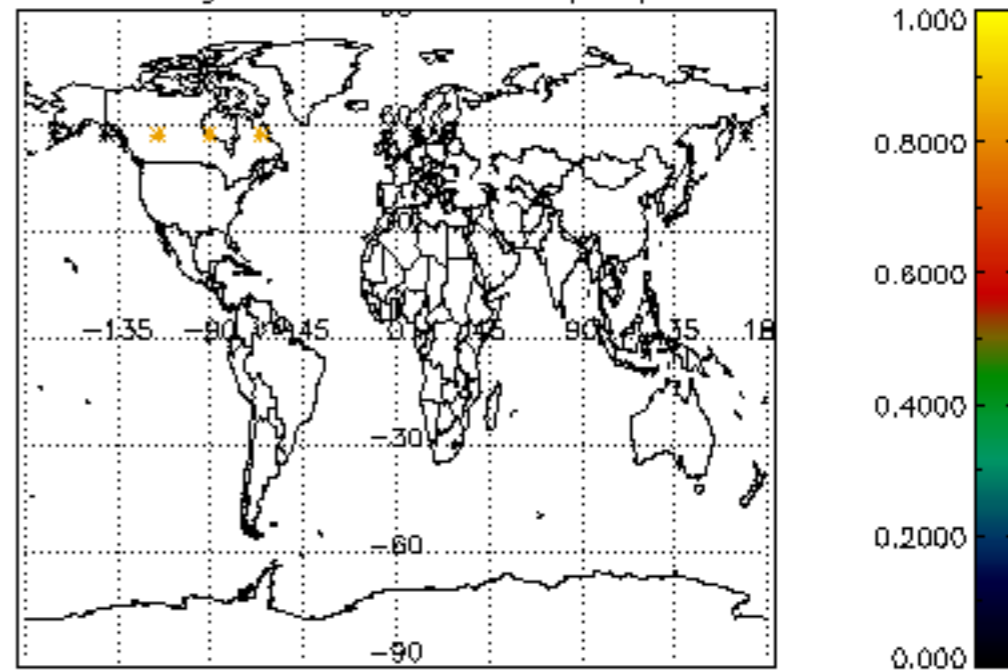
Percentage of saturation errors per profile



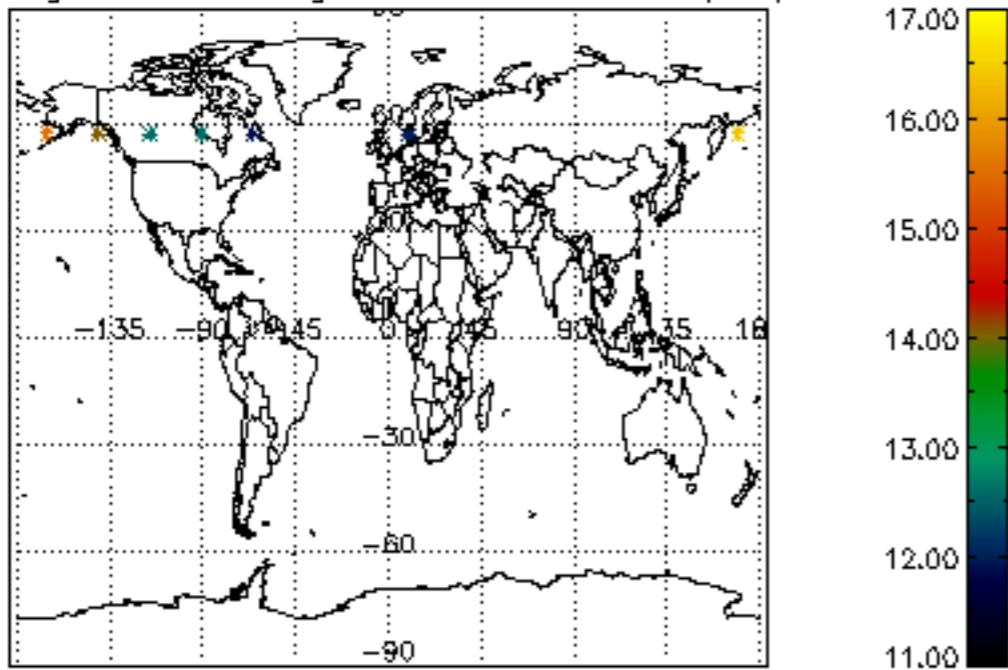
Percentage of cosmic ray hits per profile



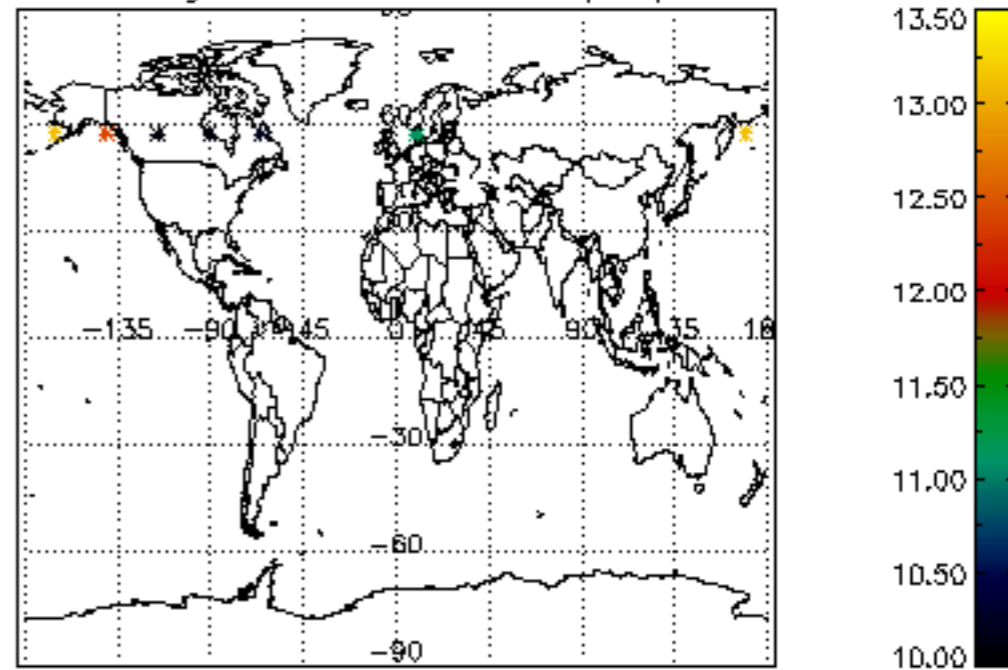
Percentage of datation errors per profile

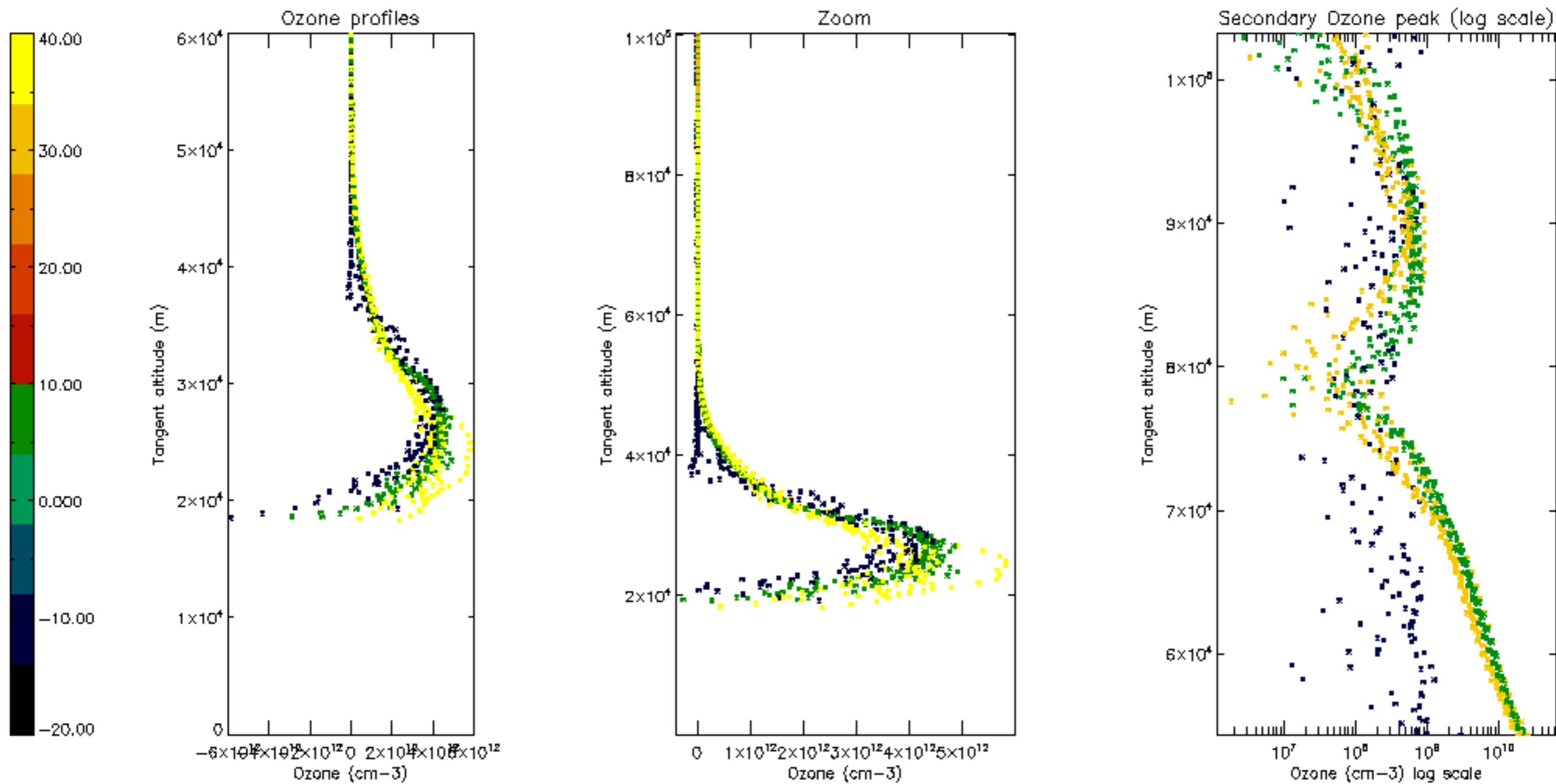


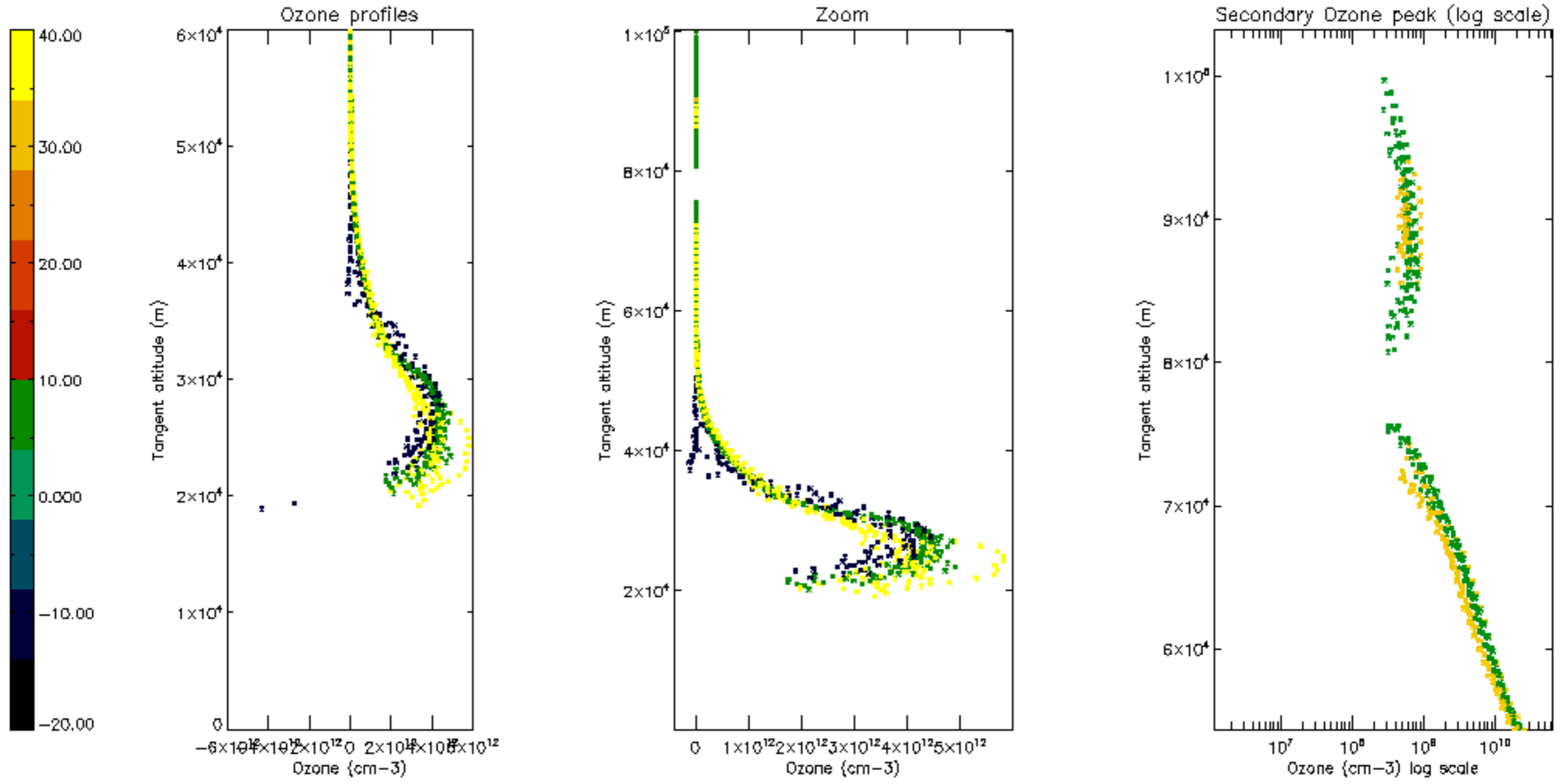
Percentage of star falling outside central band per profile

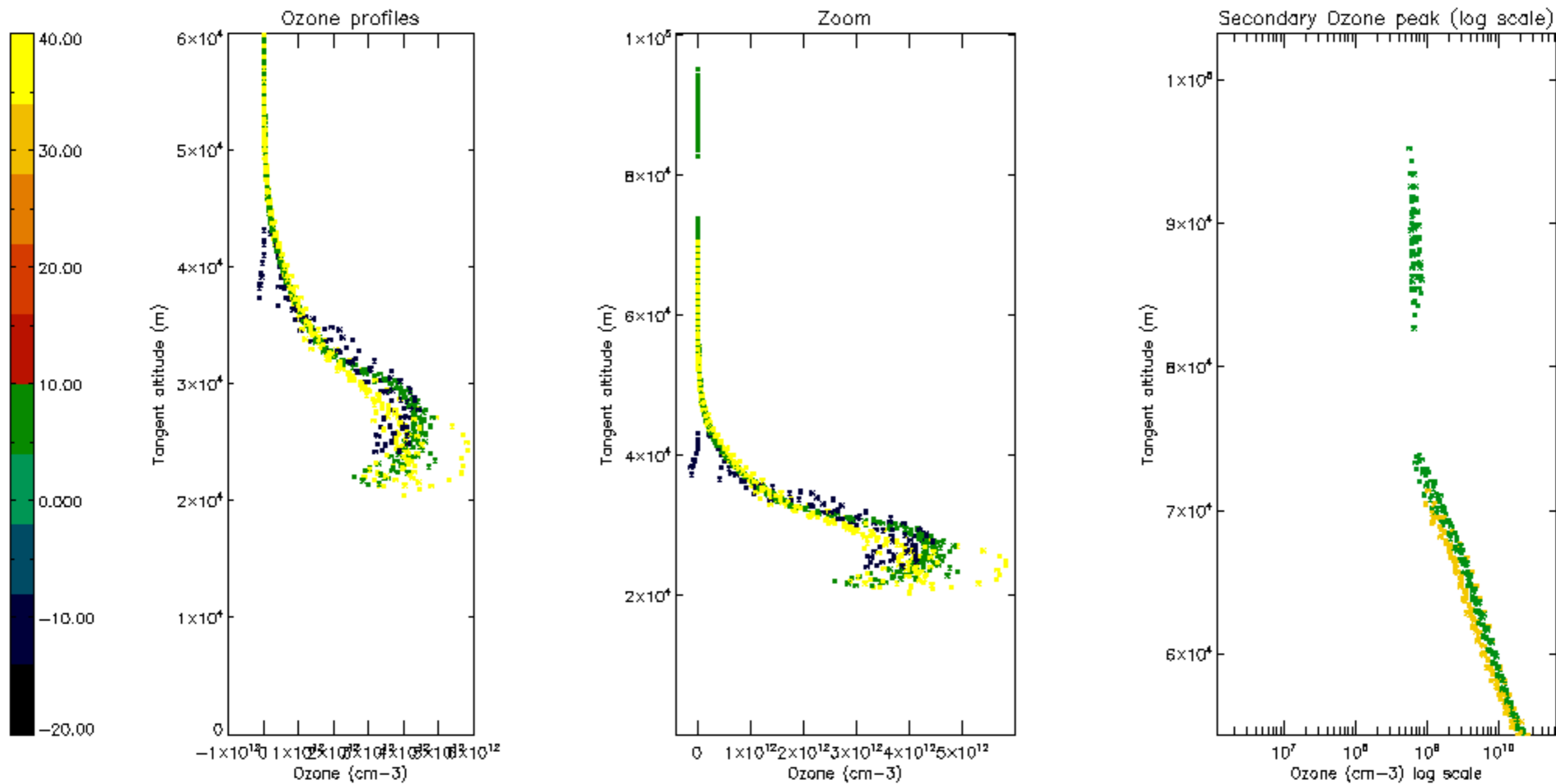


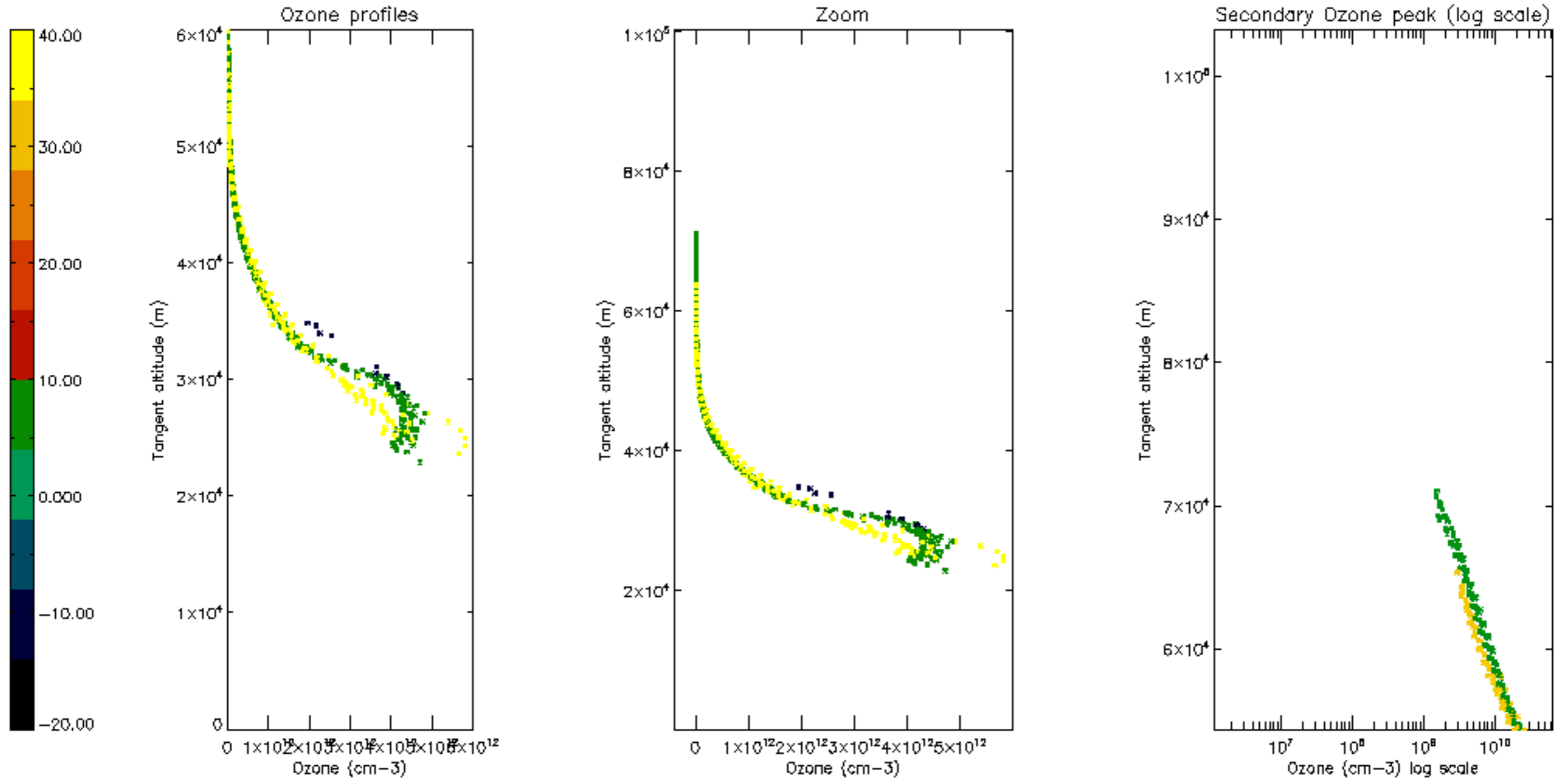
Percentage of saturation errors per profile

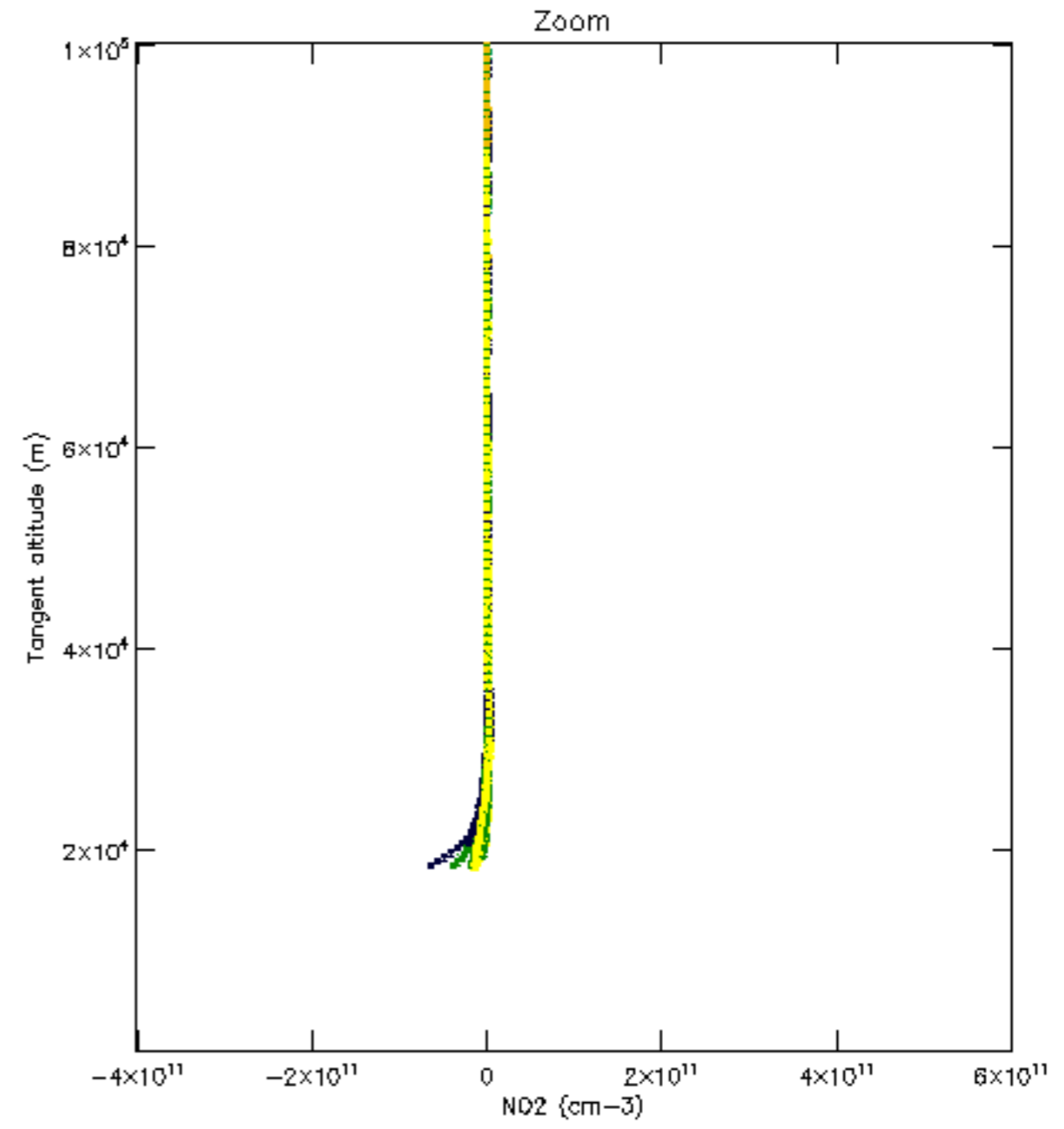
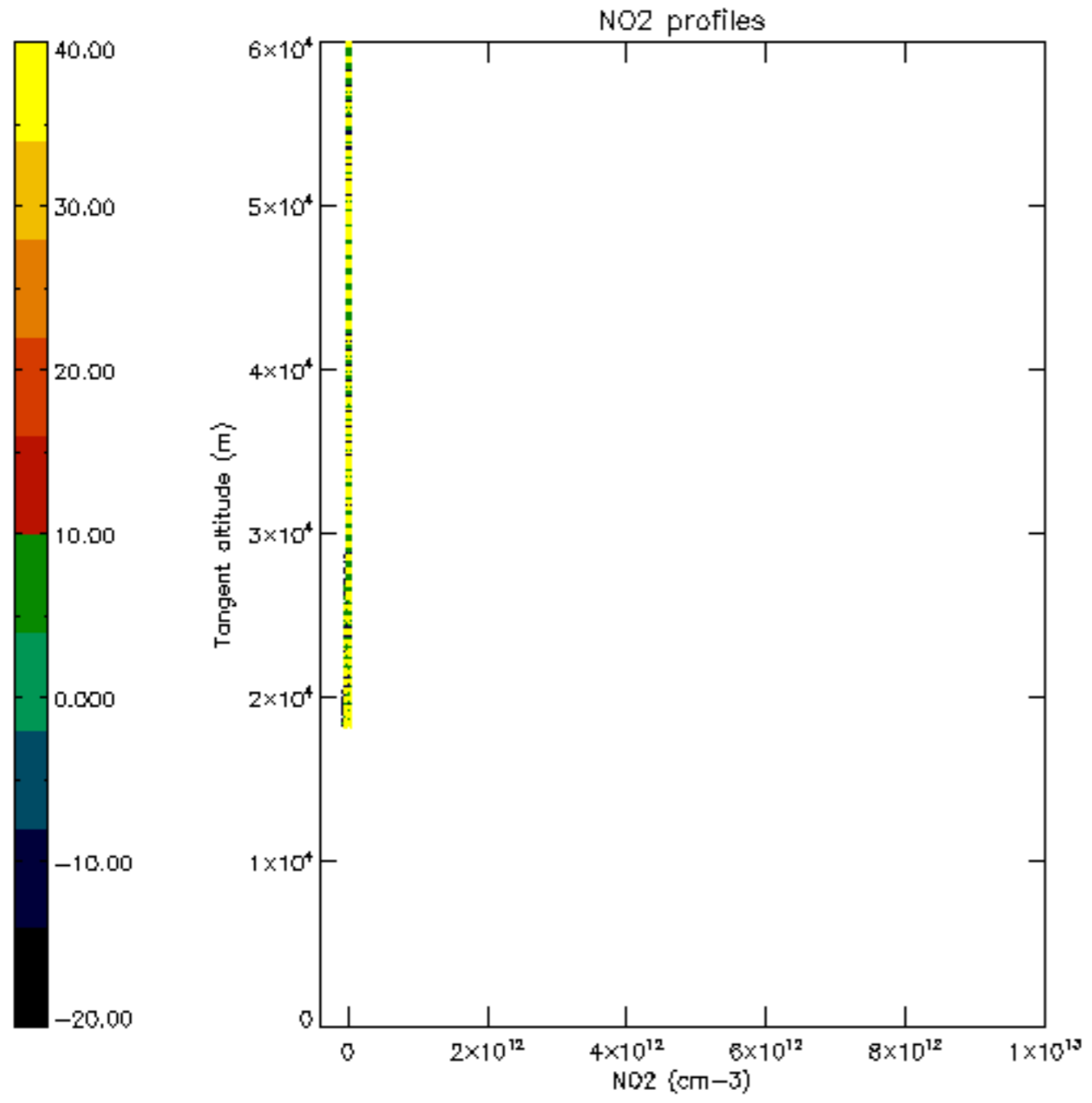


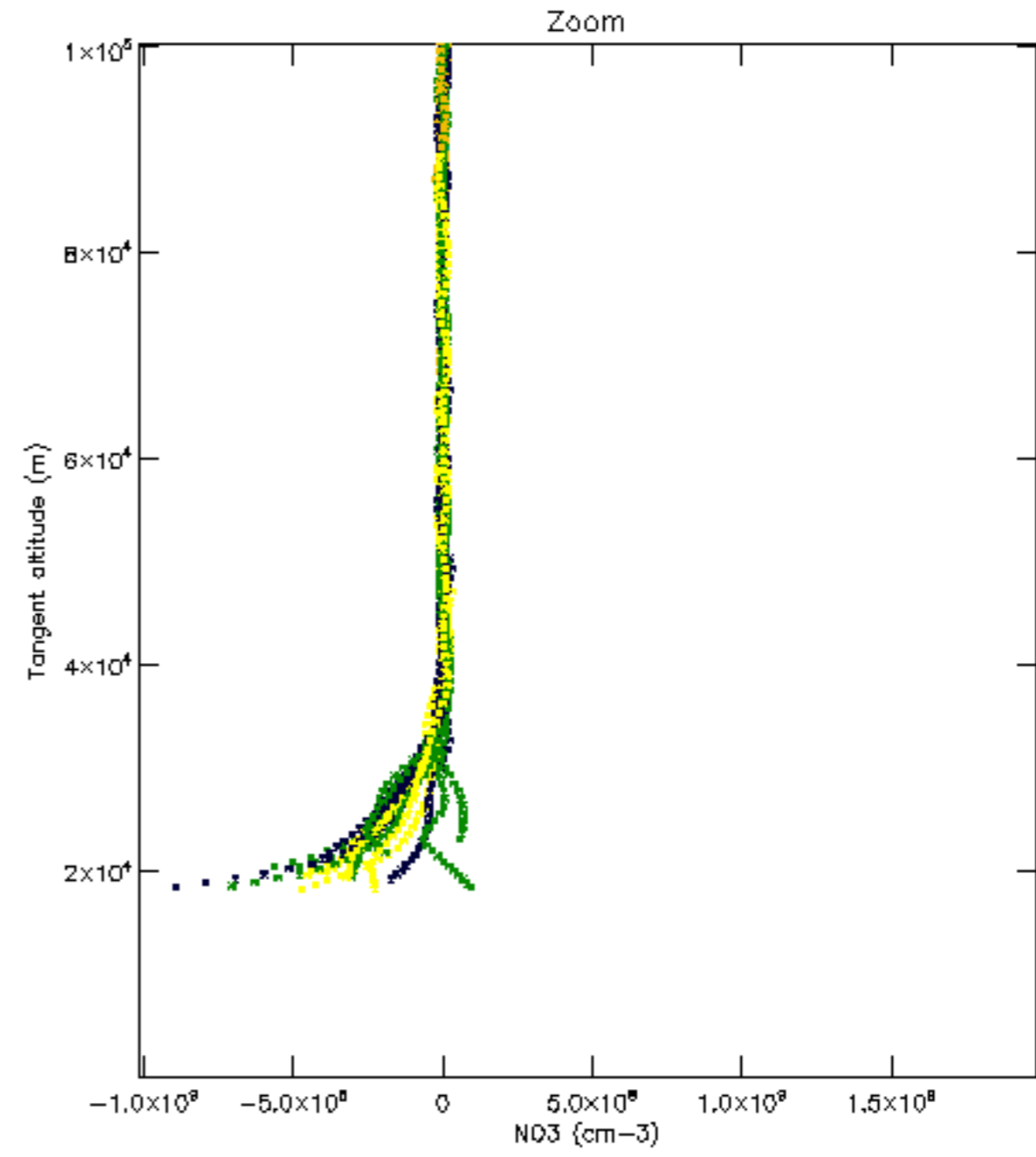
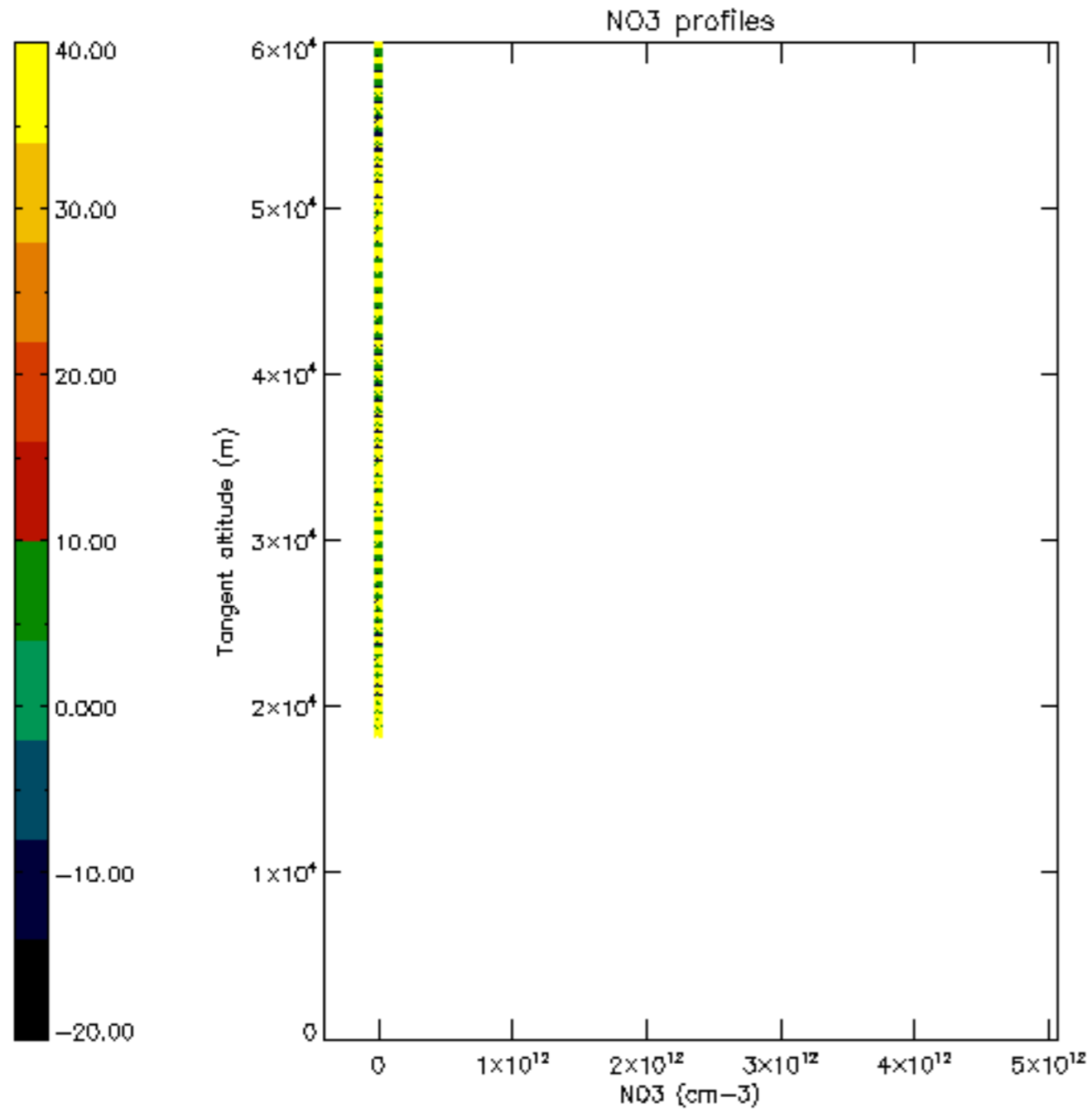


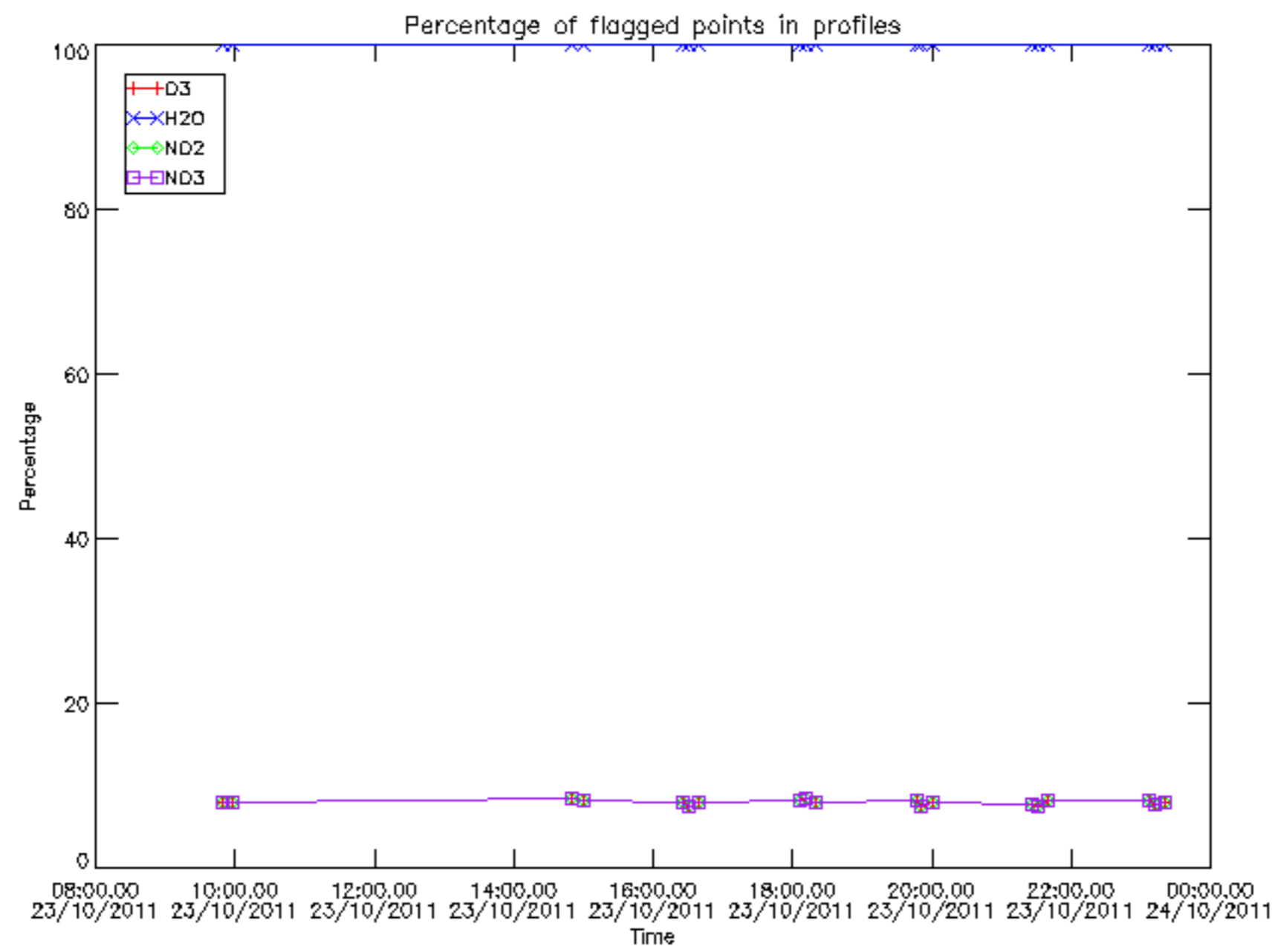




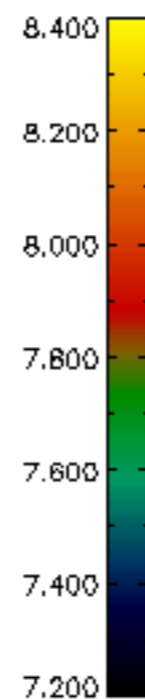
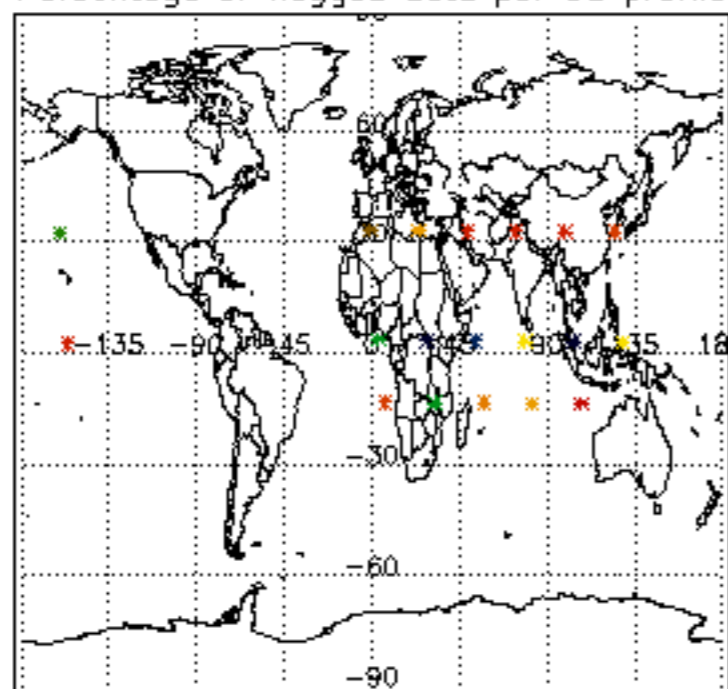




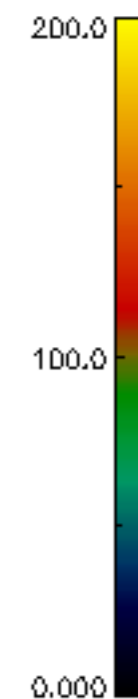
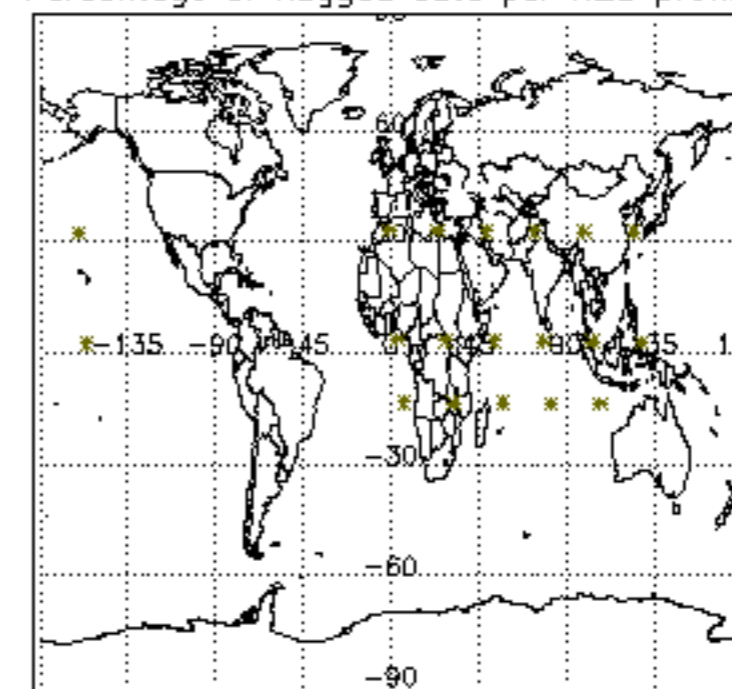




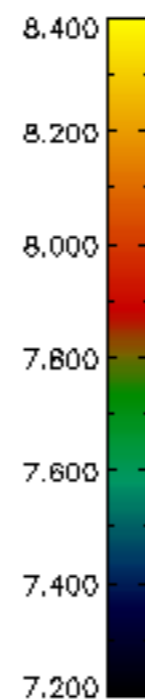
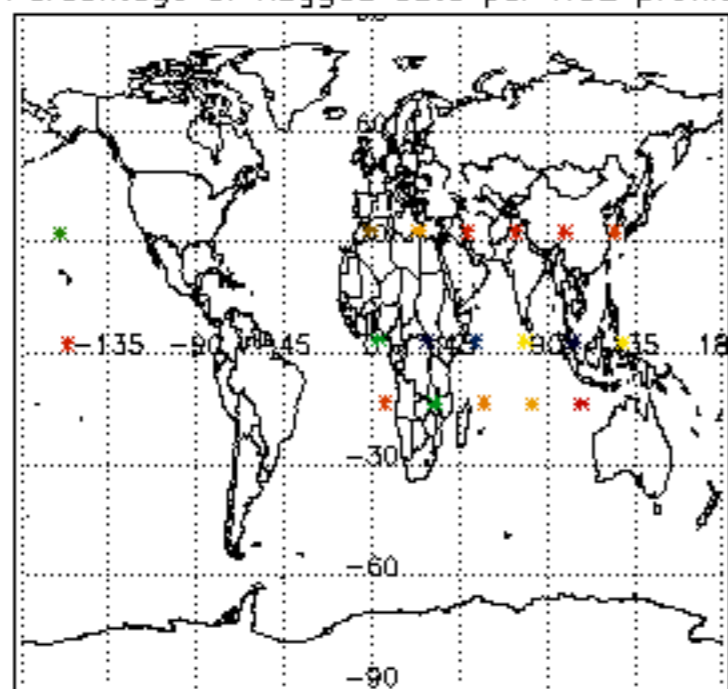
Percentage of flagged data per D3 profile



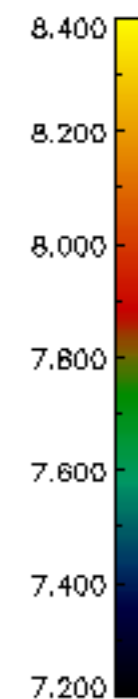
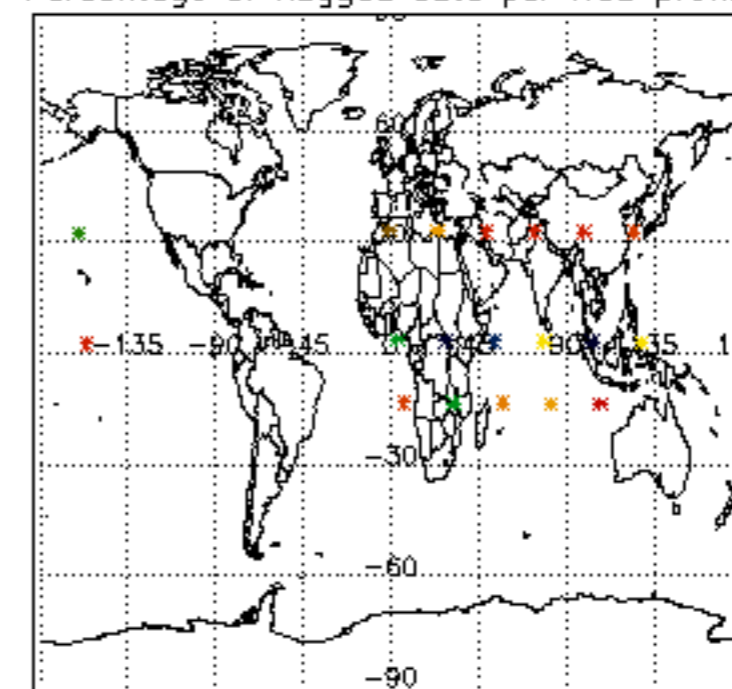
Percentage of flagged data per H2O profile

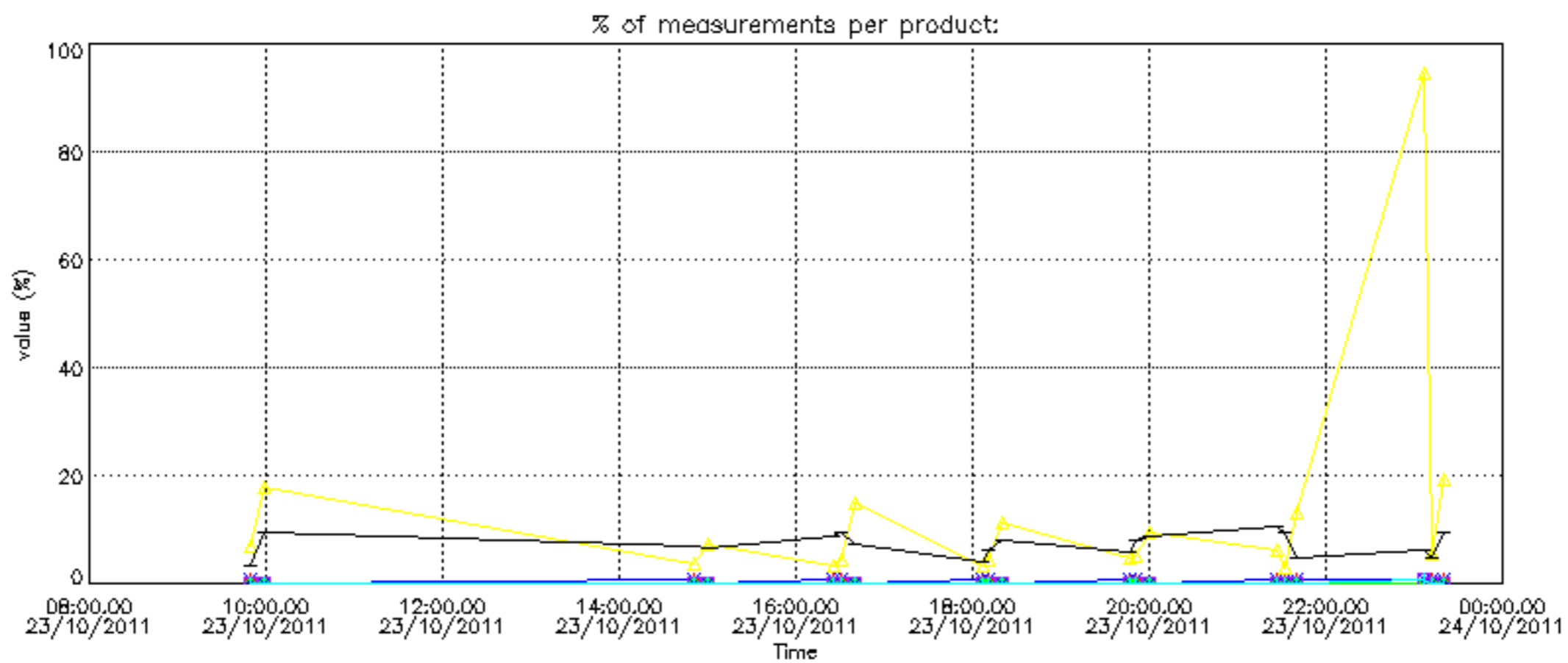


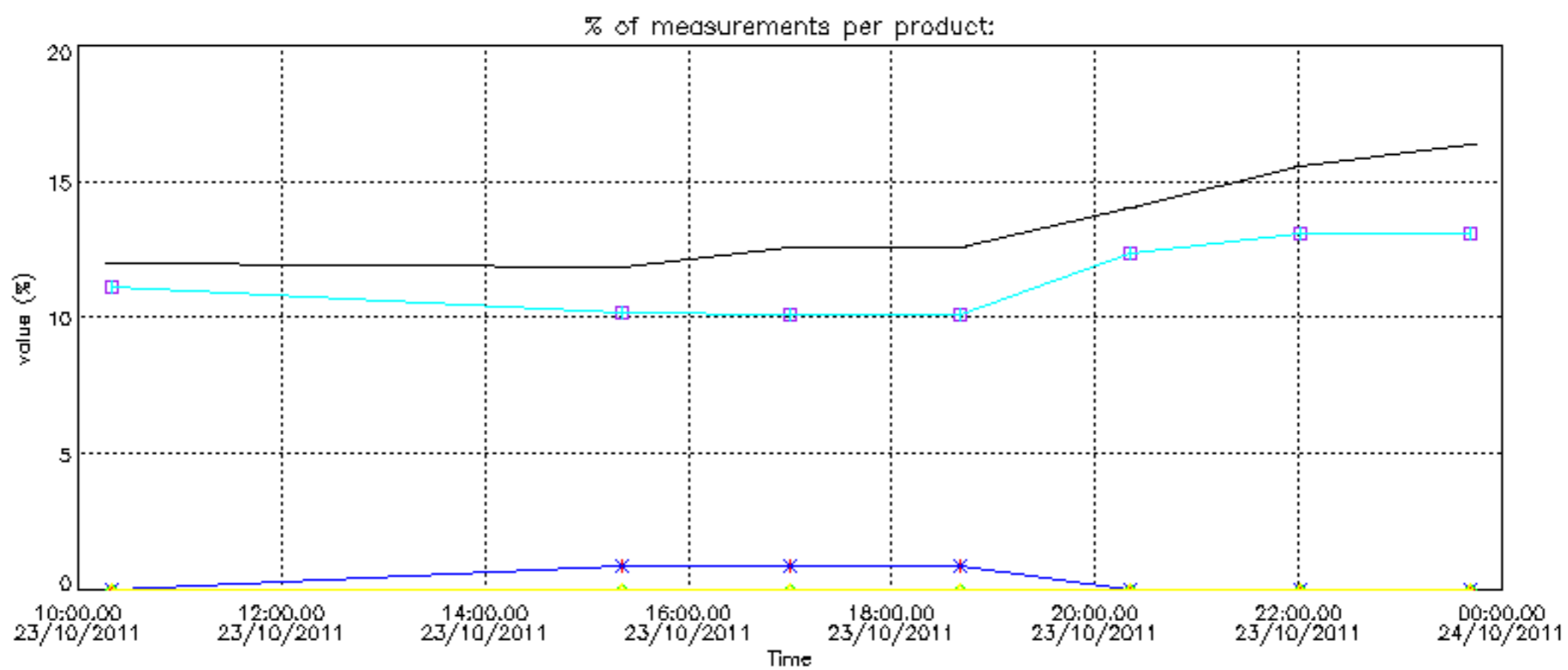
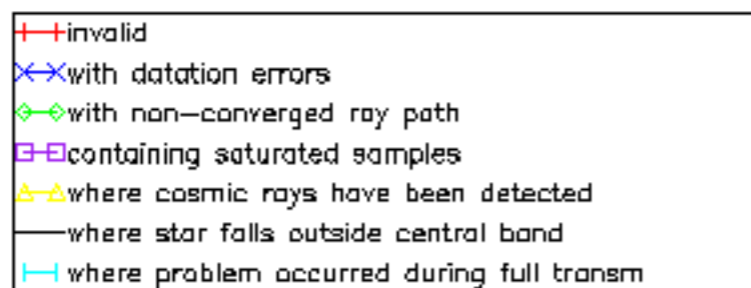
Percentage of flagged data per NO2 profile



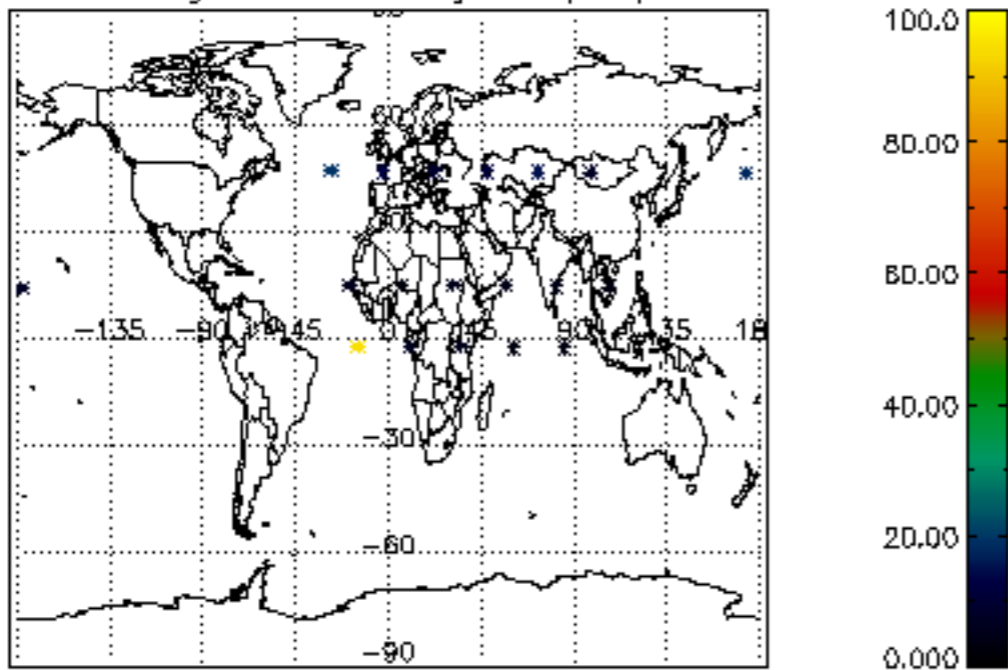
Percentage of flagged data per NO3 profile



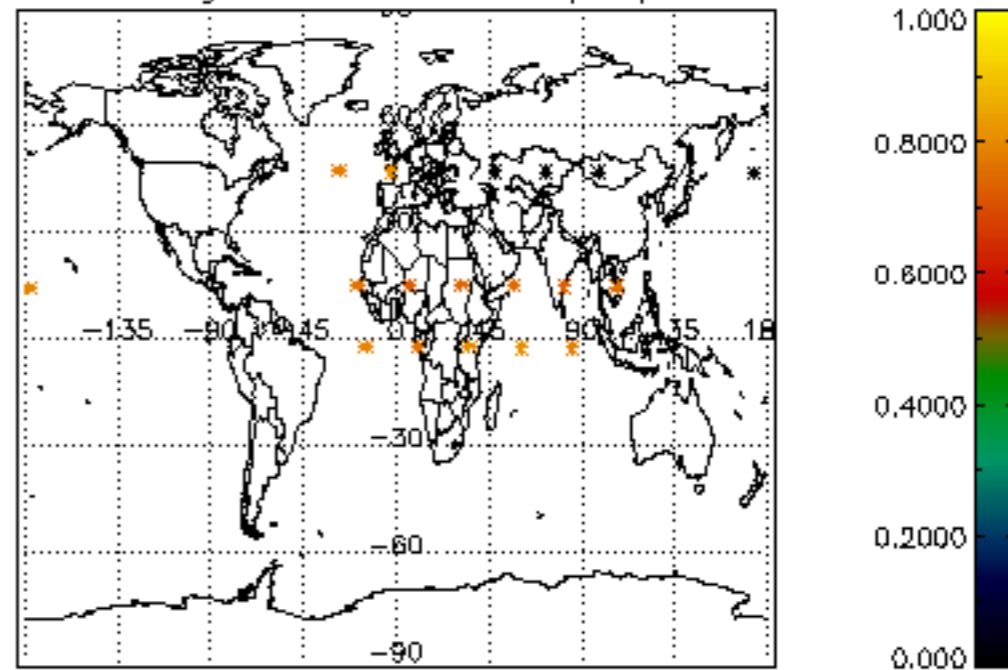




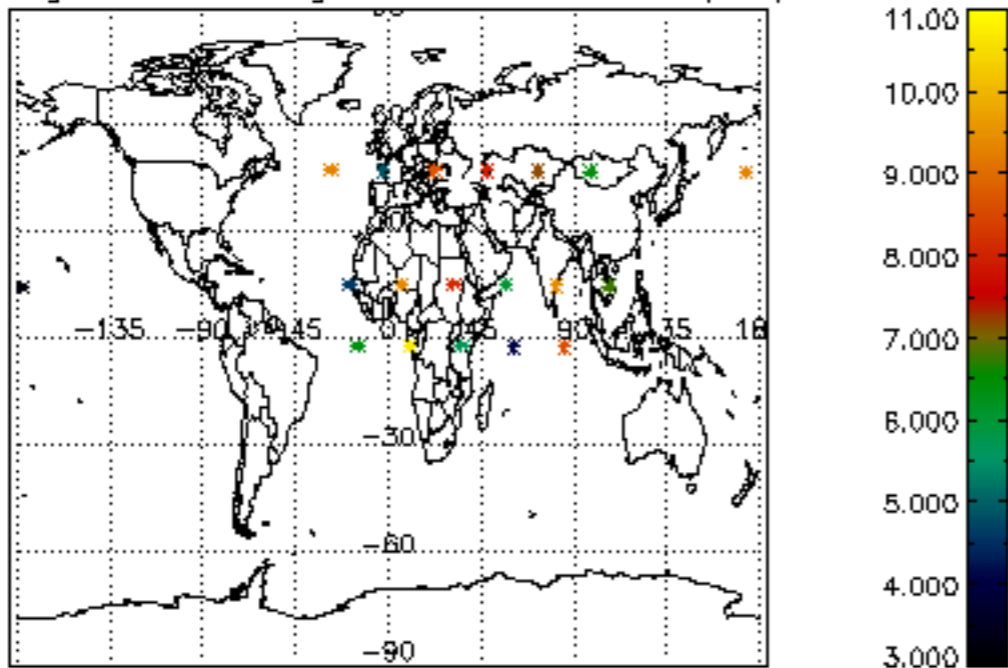
Percentage of cosmic ray hits per profile



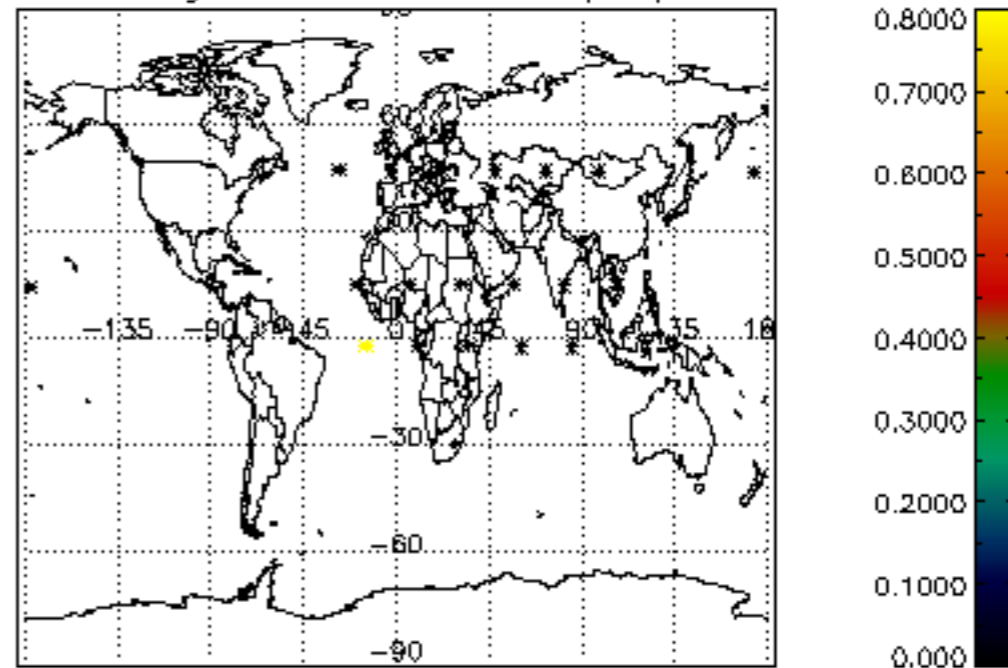
Percentage of datation errors per profile



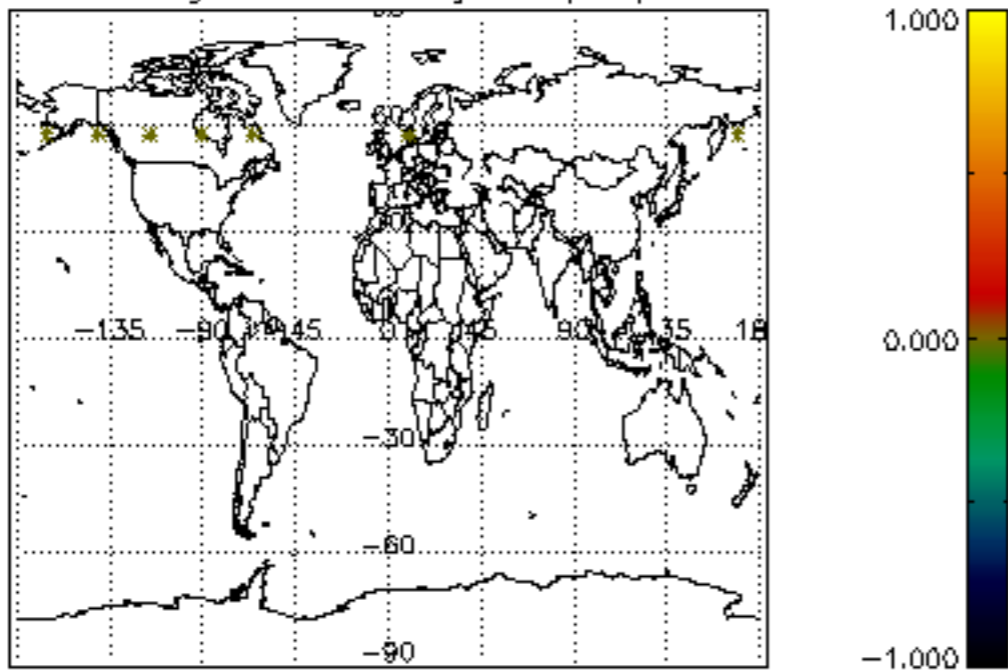
Percentage of star falling outside central band per profile



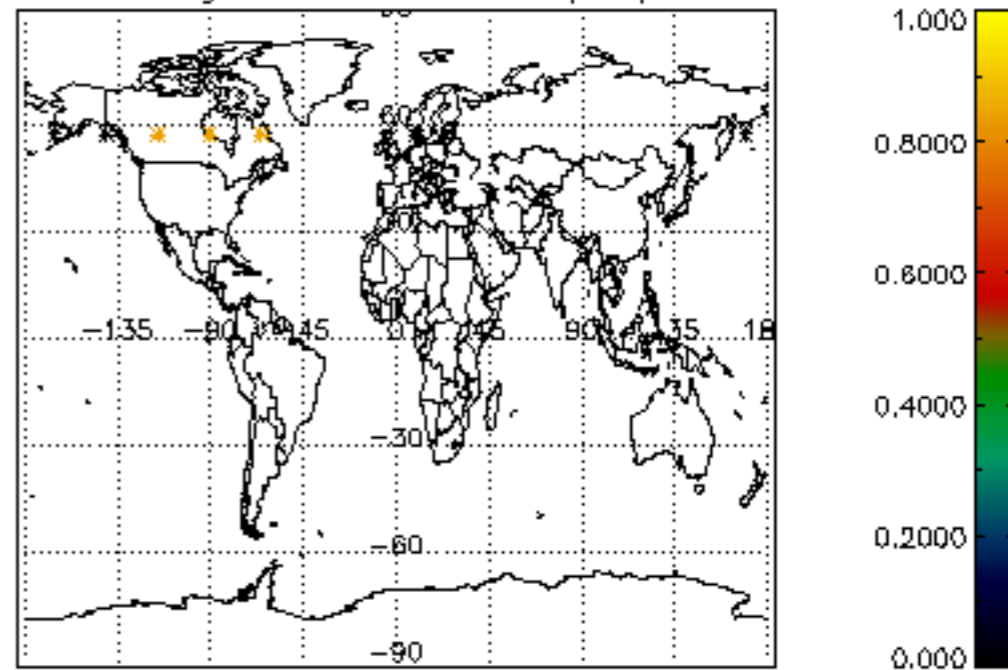
Percentage of saturation errors per profile



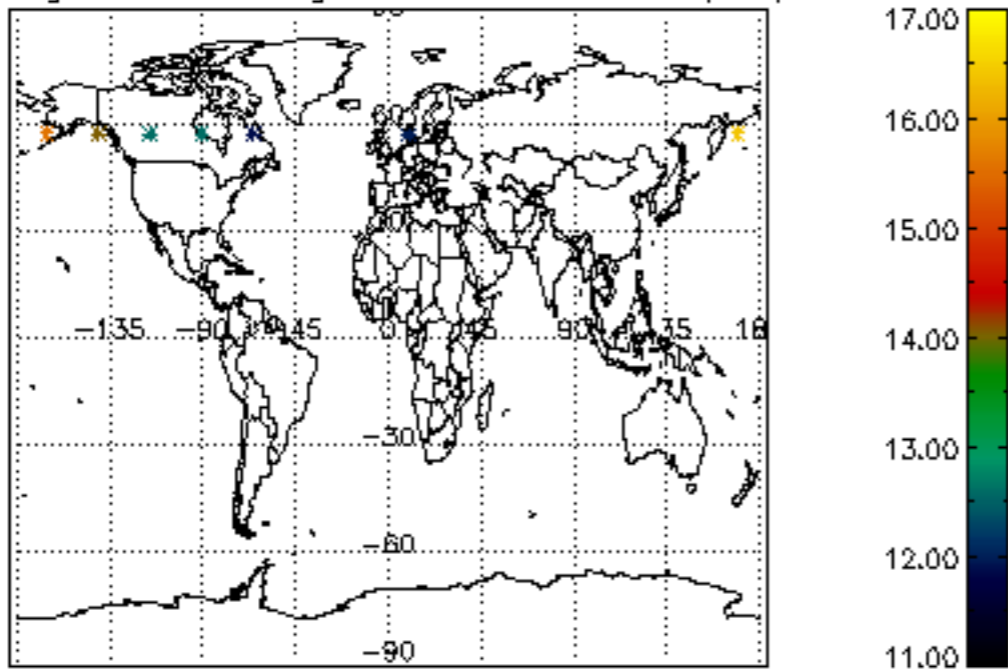
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

