

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	18APR2013 14:07:17
Data source version	GOMOS/6.01
Start time of products	20-02-2012 (20FEB2012 00:00:00)
Stop time of products	21-02-2012 (21FEB2012 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	24
Nb of prods with errors	1

2. Summary of processed GOM_NL__2P products.

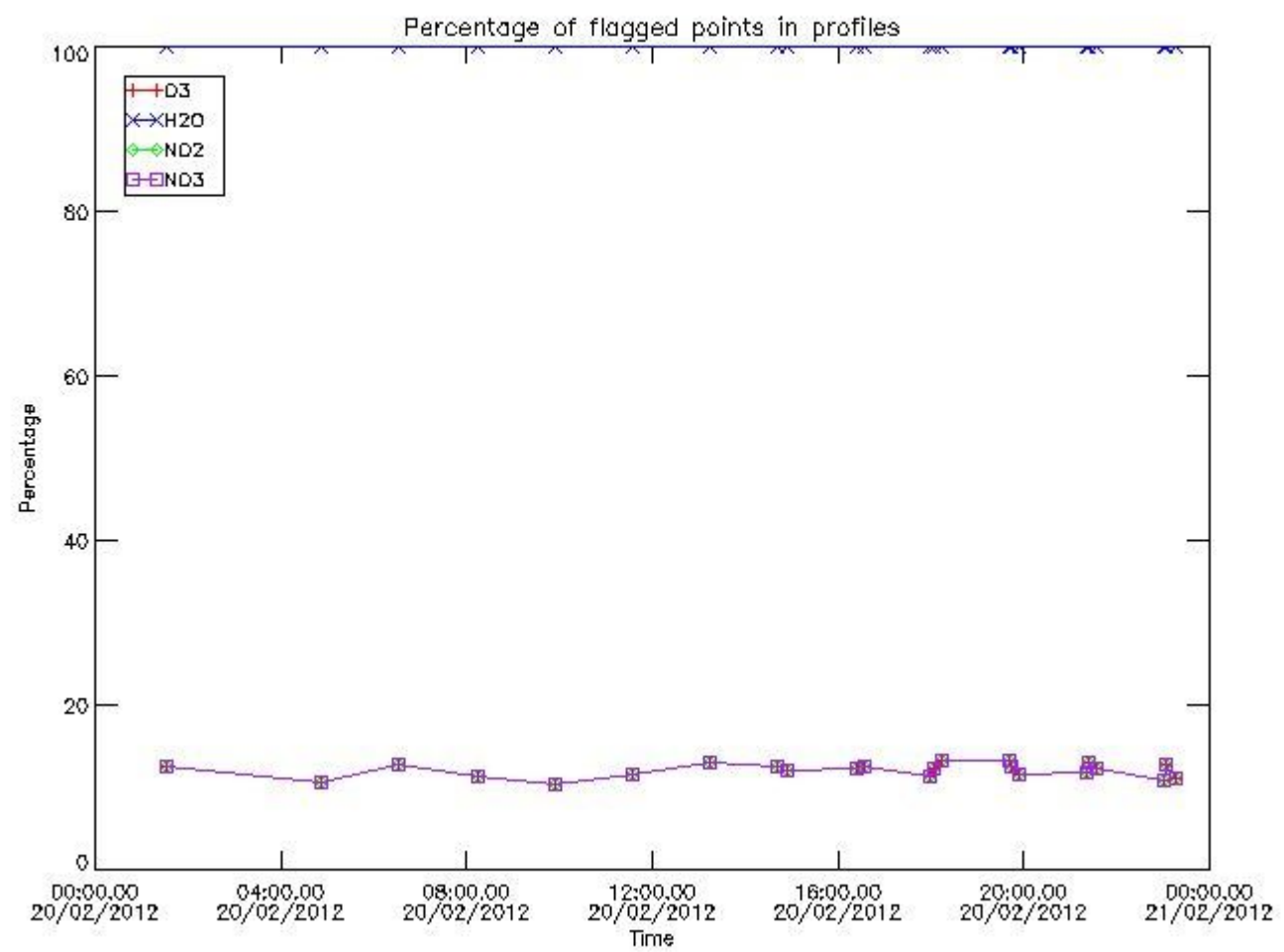
!Warning: No products without errors in BRIGHT limb contitions found

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20120220_013216_000000413112_00003_52172_5068.N1	20-FEB-2012 01:32:16	Dark	41.000	10	Bet Cen	0.61000	28000.	82	52172	No
2	GOM_NL__2PRFIN20120220_031231_000000513112_00004_52173_5069.N1	20-FEB-2012 03:12:31	Dark	50.500	10	Bet Cen	0.61000	28000.	101	52173	Yes
3	GOM_NL__2PRFIN20120220_045245_000000483112_00005_52174_5090.N1	20-FEB-2012 04:52:45	Dark	48.000	10	Bet Cen	0.61000	28000.	96	52174	No
4	GOM_NL__2PRFIN20120220_063300_000000443112_00006_52175_5125.N1	20-FEB-2012 06:33:00	Dark	43.500	10	Bet Cen	0.61000	28000.	87	52175	No
5	GOM_NL__2PRFIN20120220_081315_000000493112_00007_52176_4461.N1	20-FEB-2012 08:13:15	Dark	49.000	10	Bet Cen	0.61000	28000.	98	52176	No
6	GOM_NL__2PRFIN20120220_095329_000000493112_00008_52177_4488.N1	20-FEB-2012 09:53:29	Dark	49.000	10	Bet Cen	0.61000	28000.	98	52177	No
7	GOM_NL__2PRFIN20120220_113343_000000443112_00009_52178_4511.N1	20-FEB-2012 11:33:43	Dark	43.500	10	Bet Cen	0.61000	28000.	87	52178	No
8	GOM_NL__2PRFIN20120220_131358_000000433112_00010_52179_4548.N1	20-FEB-2012 13:13:58	Dark	42.500	10	Bet Cen	0.61000	28000.	85	52179	No
9	GOM_NL__2PRFIN20120220_144225_000000413112_00010_52179_4549.N1	20-FEB-2012 14:42:25	Dark	41.000	85	Kap Sco	2.4070	28000.	82	52179	No
10	GOM_NL__2PRFIN20120220_145412_000000423112_00011_52180_4562.N1	20-FEB-2012 14:54:12	Dark	41.500	10	Bet Cen	0.61000	28000.	83	52180	No
11	GOM_NL__2PRFIN20120220_162239_000000423112_00011_52180_4563.N1	20-FEB-2012 16:22:39	Dark	41.500	85	Kap Sco	2.4070	28000.	83	52180	No
12	GOM_NL__2PRFIN20120220_163427_000000453112_00012_52181_4585.N1	20-FEB-2012 16:34:27	Dark	44.500	10	Bet Cen	0.61000	28000.	89	52181	No
13	GOM_NL__2PRFIN20120220_175958_000000453112_00012_52181_4586.N1	20-FEB-2012 17:59:58	Dark	45.000	167	10Gam2Sgr	2.9840	4500.0	90	52181	No
14	GOM_NL__2PRFIN20120220_180254_000000423112_00012_52181_4587.N1	20-FEB-2012 18:02:54	Dark	41.500	85	Kap Sco	2.4070	28000.	83	52181	No
15	GOM_NL__2PRFIN20120220_181442_000000423112_00013_52182_4630.N1	20-FEB-2012 18:14:42	Dark	41.500	10	Bet Cen	0.61000	28000.	83	52182	No
16	GOM_NL__2PRFIN20120220_194013_000000423112_00013_52182_4631.N1	20-FEB-2012 19:40:13	Dark	42.000	167	10Gam2Sgr	2.9840	4500.0	84	52182	No
17	GOM_NL__2PRFIN20120220_194308_000000413112_00013_52182_4632.N1	20-FEB-2012 19:43:08	Dark	40.500	85	Kap Sco	2.4070	28000.	81	52182	No
18	GOM_NL__2PRFIN20120220_195456_000000443112_00014_52183_4690.N1	20-FEB-2012 19:54:56	Dark	43.500	10	Bet Cen	0.61000	28000.	87	52183	No
19	GOM_NL__2PRFIN20120220_212027_000000433112_00014_52183_4691.N1	20-FEB-2012 21:20:27	Dark	43.000	167	10Gam2Sgr	2.9840	4500.0	86	52183	No
20	GOM_NL__2PRFIN20120220_212322_000000403112_00014_52183_4692.N1	20-FEB-2012 21:23:22	Dark	39.500	85	Kap Sco	2.4070	28000.	79	52183	No
21	GOM_NL__2PRFIN20120220_213510_000000413112_00015_52184_4724.N1	20-FEB-2012 21:35:10	Dark	41.000	10	Bet Cen	0.61000	28000.	82	52184	No
22	GOM_NL__2PRFIN20120220_230041_000000473112_00015_52184_4725.N1	20-FEB-2012 23:00:41	Dark	46.500	167	10Gam2Sgr	2.9840	4500.0	93	52184	No
23	GOM_NL__2PRFIN20120220_230337_000000403112_00015_52184_4726.N1	20-FEB-2012 23:03:37	Dark	40.000	85	Kap Sco	2.4070	28000.	80	52184	No
24	GOM_NL__2PRFIN20120220_231525_000000453112_00016_52185_4749.N1	20-FEB-2012 23:15:25	Dark	45.000	10	Bet Cen	0.61000	28000.	90	52185	No

3. Quality information per product

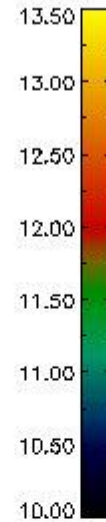
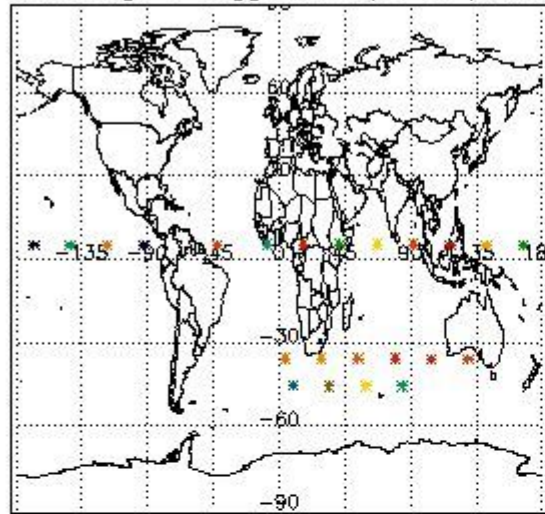
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

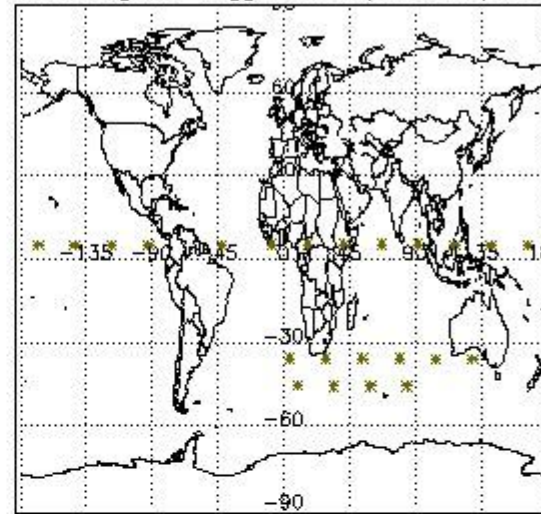


3.2 Plot quality information per product (world map)

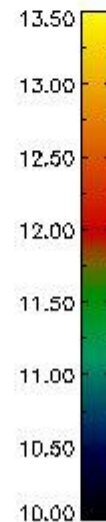
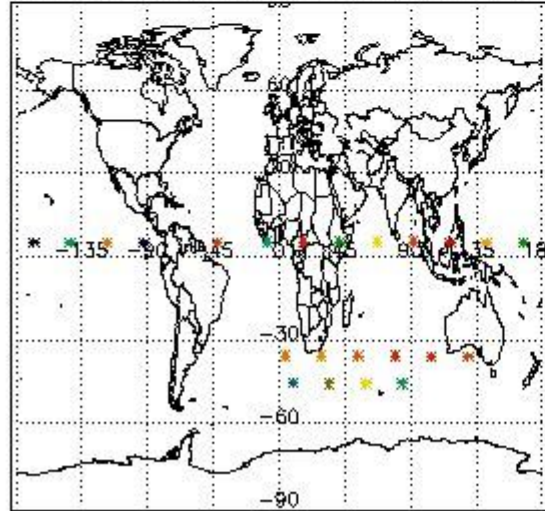
Percentage of flagged data per O3 profile



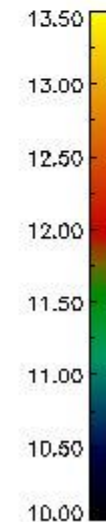
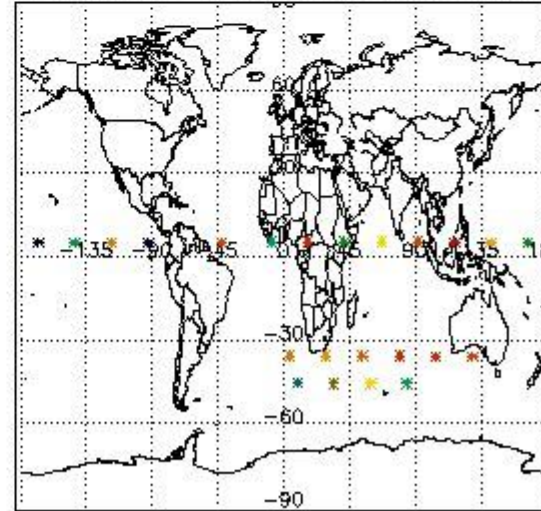
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

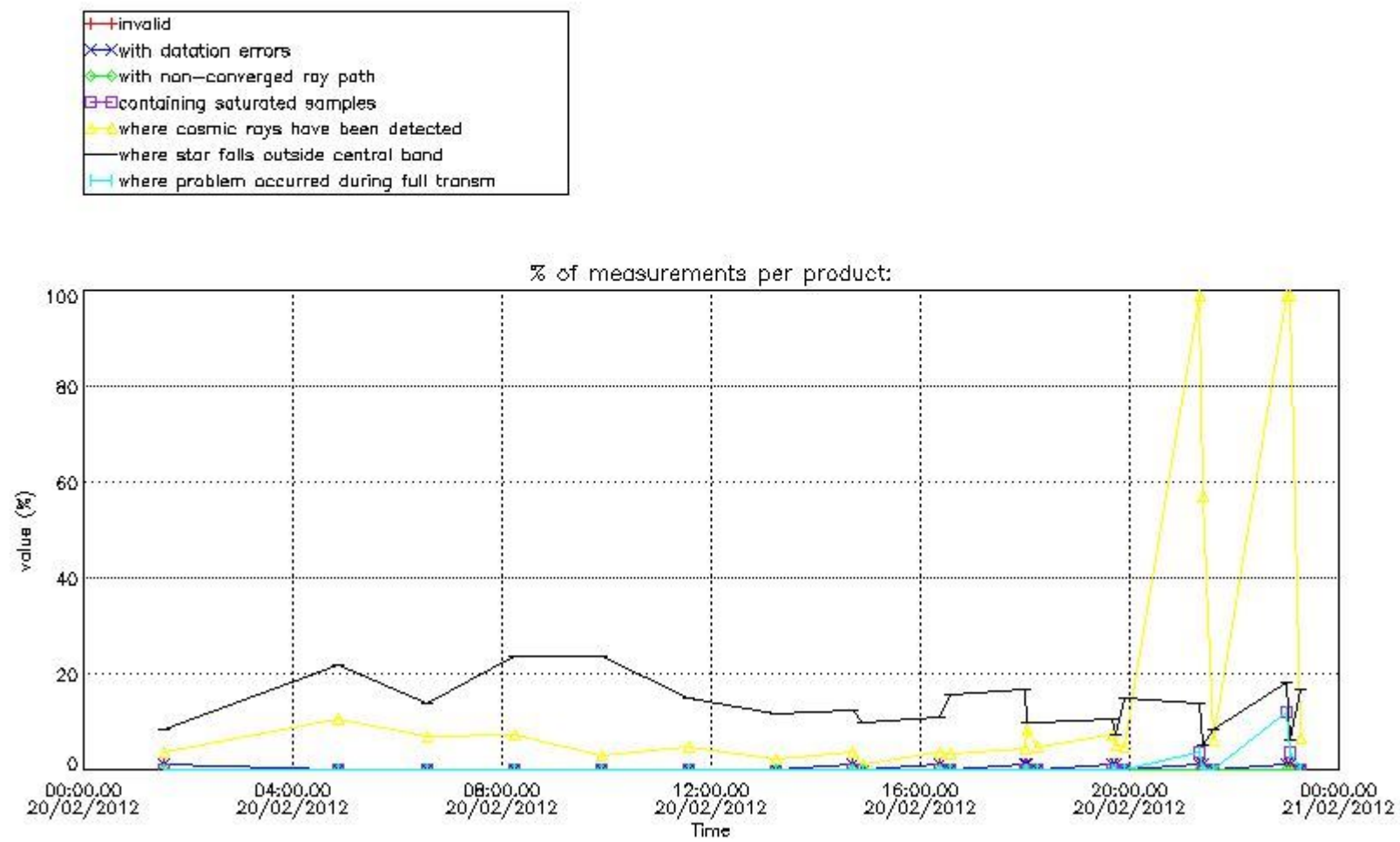


4. Level 1 quality information per product

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

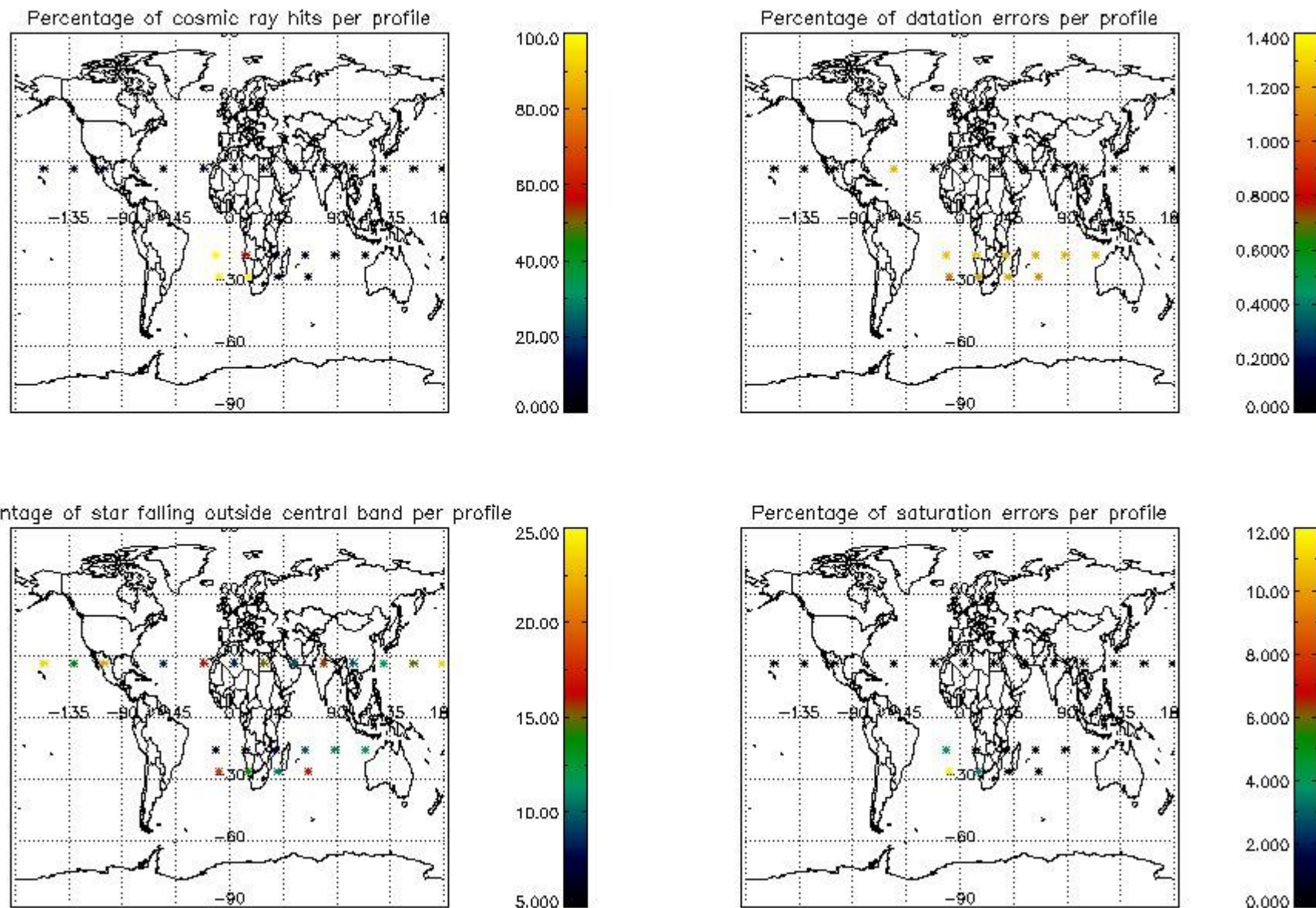


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

!Warning: No products without errors in descending found

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

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



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

!Warning: No products without errors in descending found

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:

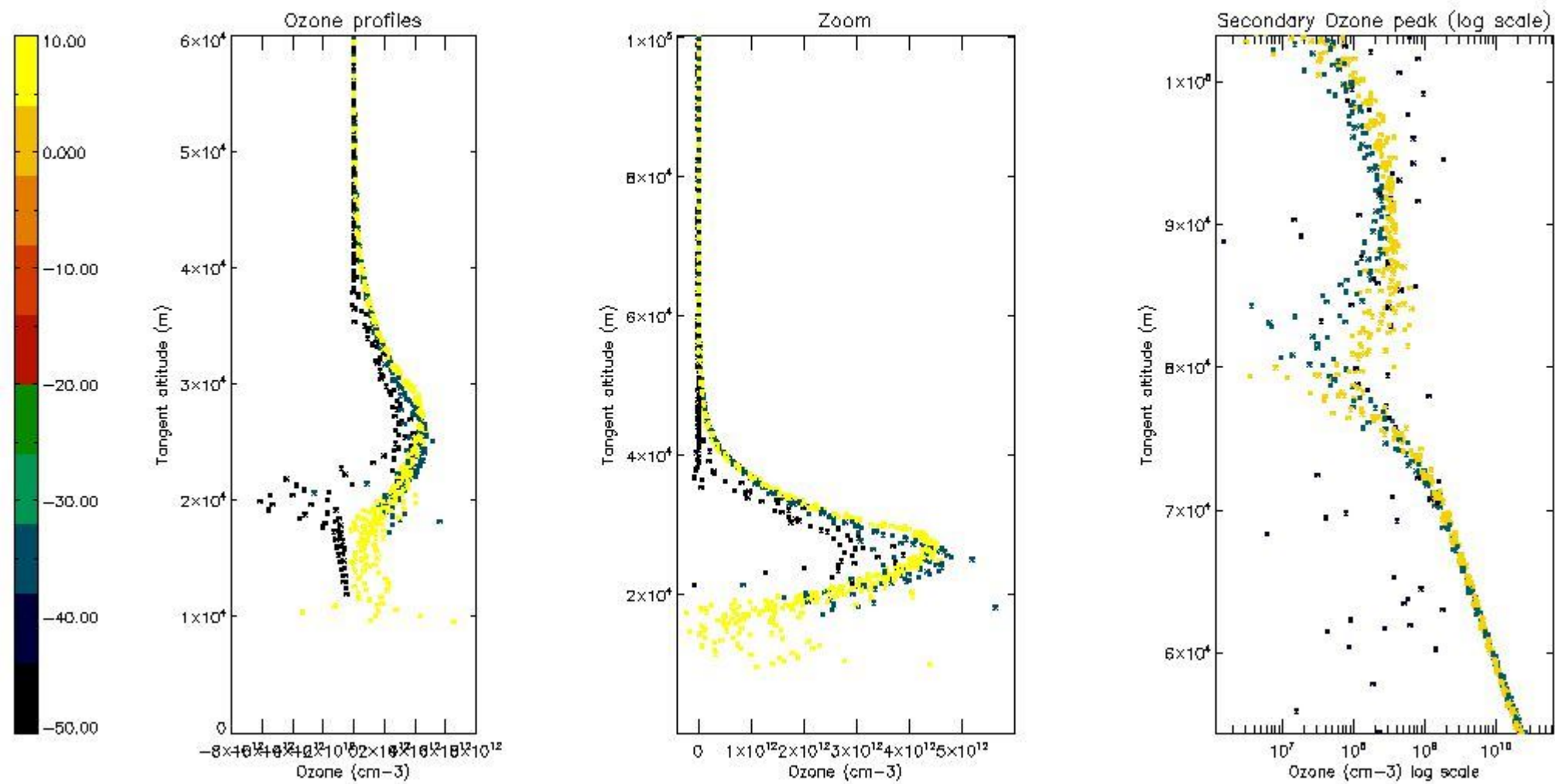
- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

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	100
STD < 20	64
STD < 10	56
STD < 5	48

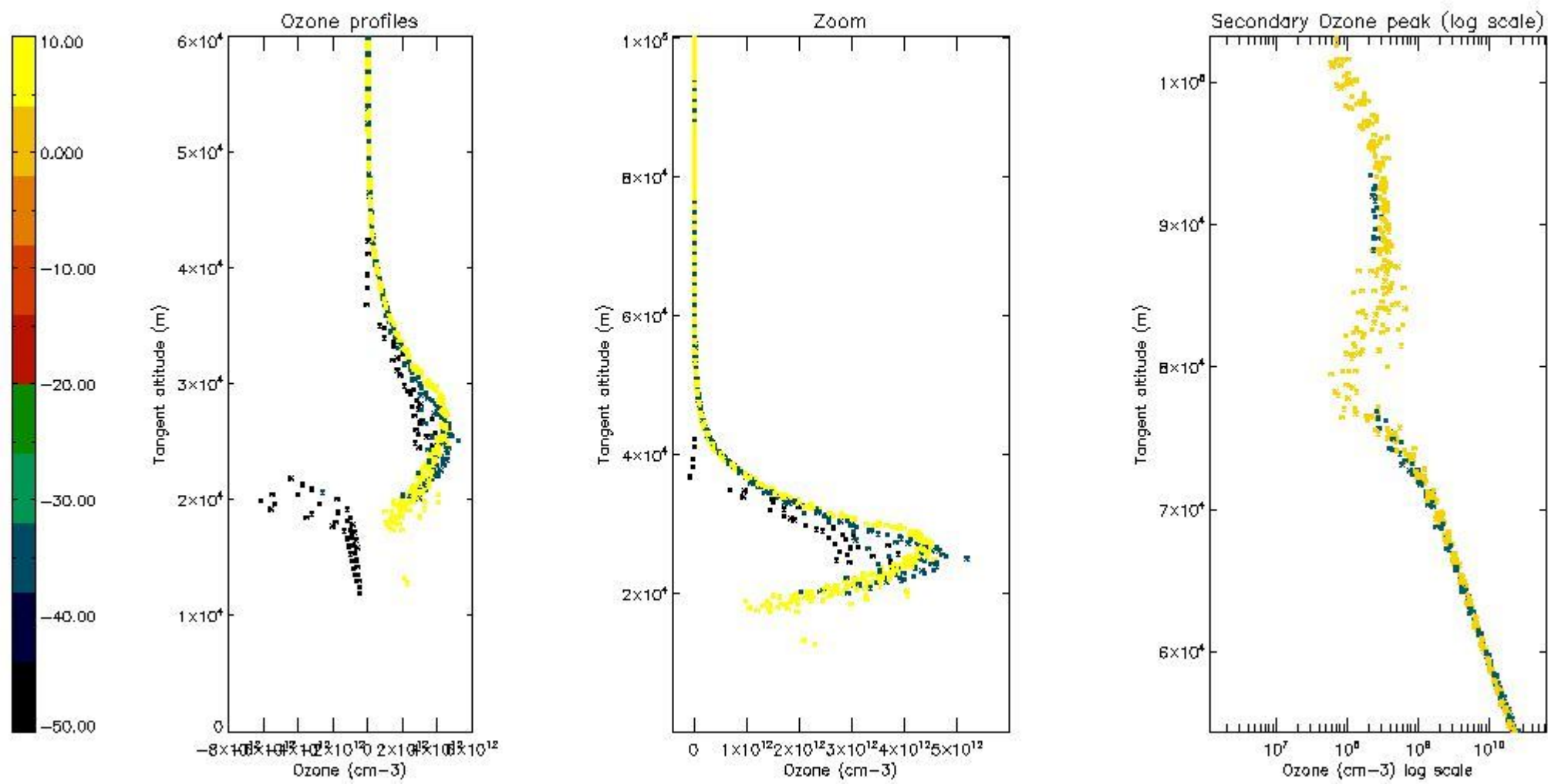
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



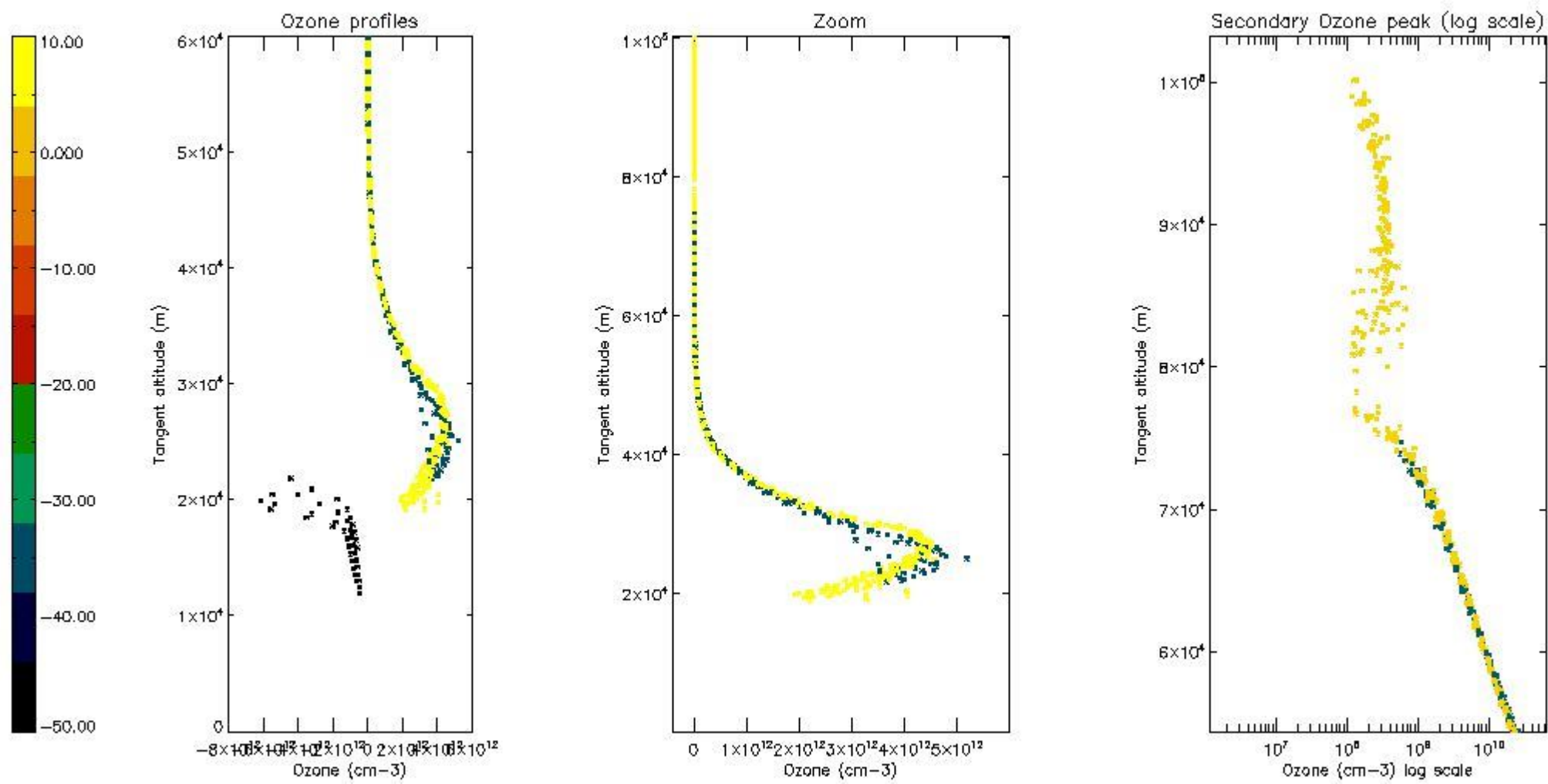
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



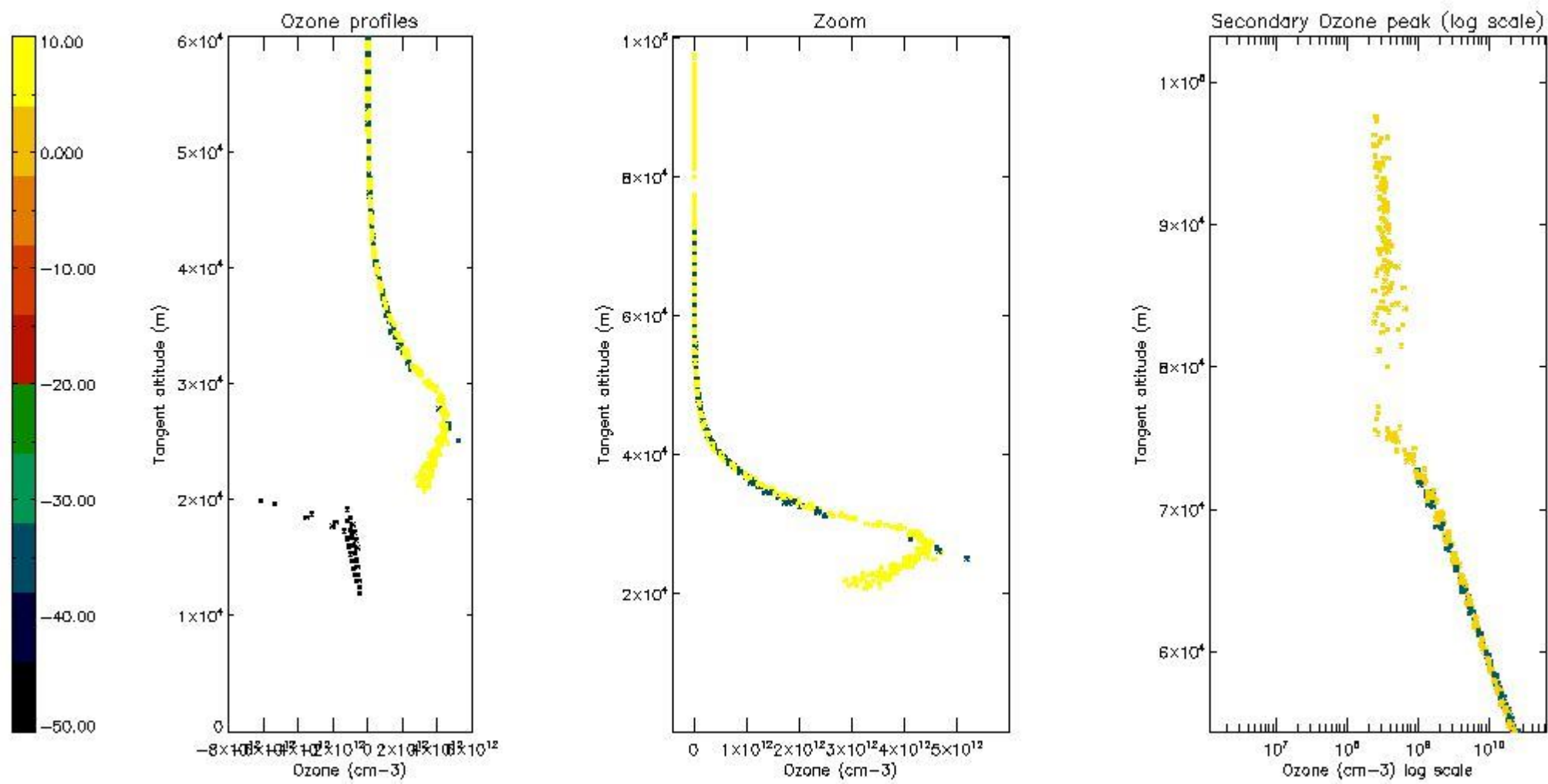
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



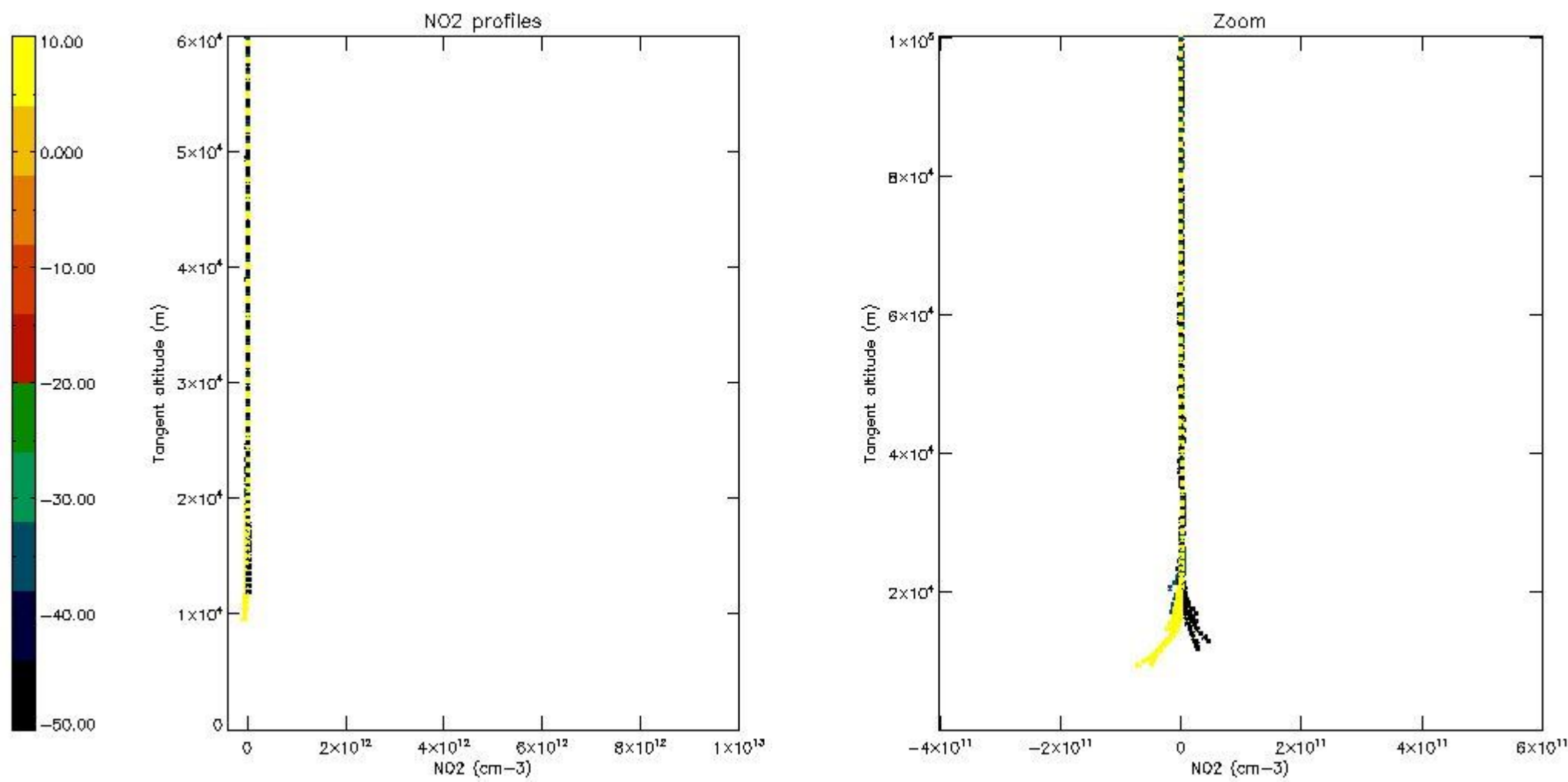
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



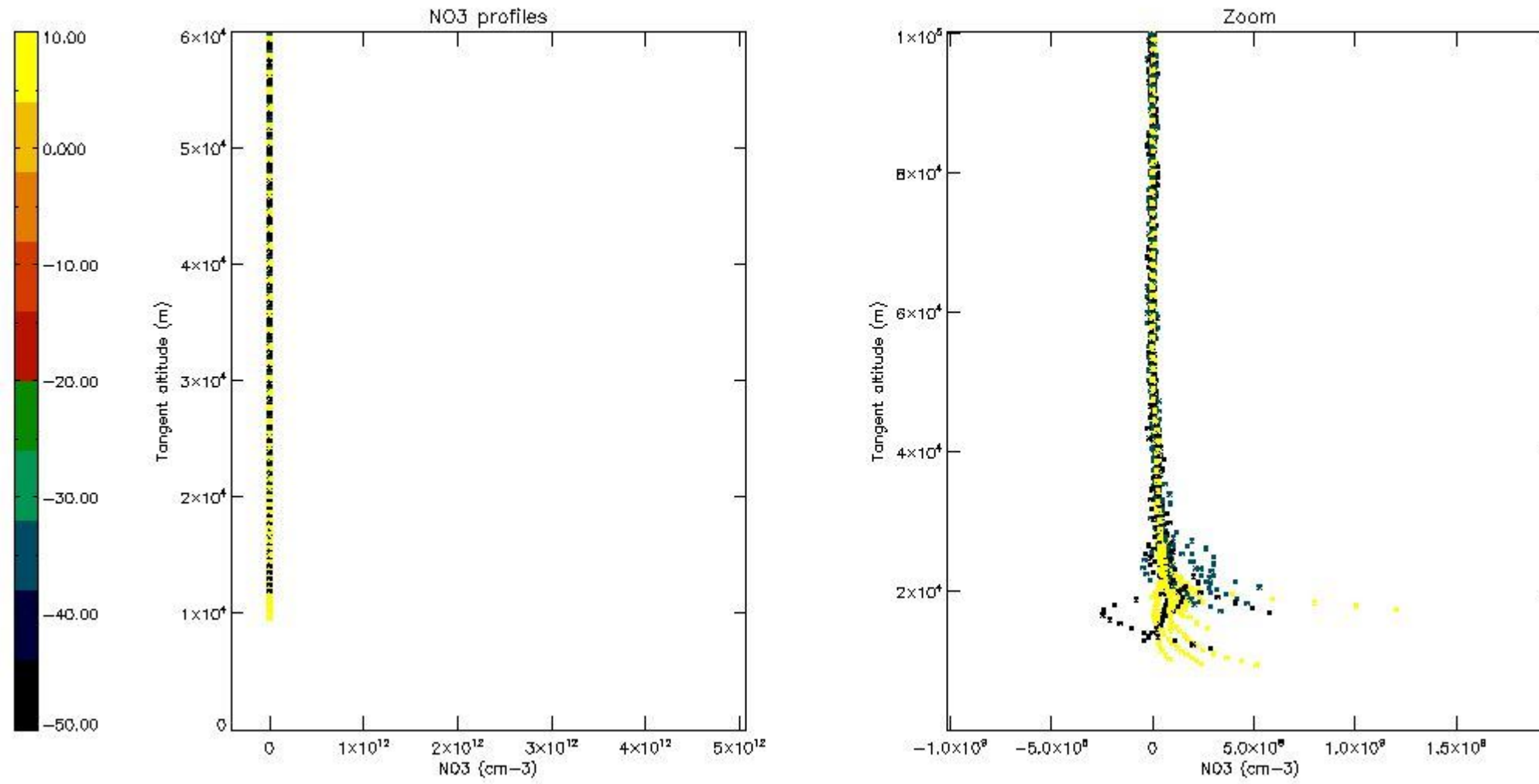
5.6 Plot NO₂ profiles for all STD (dark without errors)

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_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	20-FEB-2012 01:32:16
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	20-FEB-2012 01:32:16
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	20-FEB-2012 01:32:16

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	18APR2013 14:07:17
Data source version	GOMOS/6.01
Start time of products	20-02-2012 (20FEB2012 00:00:00)
Stop time of products	21-02-2012 (21FEB2012 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	24
Nb of prods with errors	1

2. Summary of processed GOM_NL__2P products.

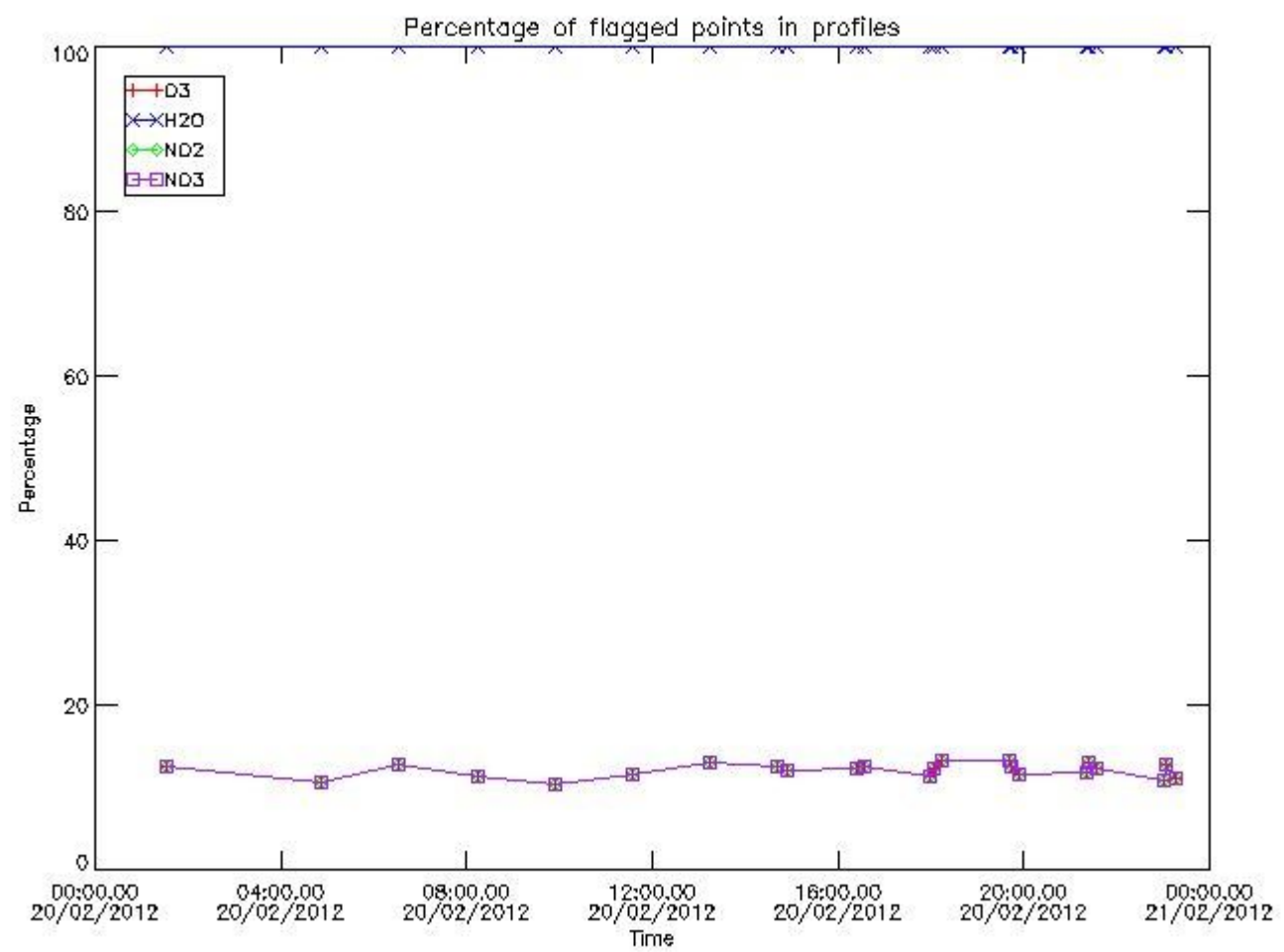
!Warning: No products without errors in BRIGHT limb contitions found

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20120220_013216_000000413112_00003_52172_5068.N1	20-FEB-2012 01:32:16	Dark	41.000	10	Bet Cen	0.61000	28000.	82	52172	No
2	GOM_NL__2PRFIN20120220_031231_000000513112_00004_52173_5069.N1	20-FEB-2012 03:12:31	Dark	50.500	10	Bet Cen	0.61000	28000.	101	52173	Yes
3	GOM_NL__2PRFIN20120220_045245_000000483112_00005_52174_5090.N1	20-FEB-2012 04:52:45	Dark	48.000	10	Bet Cen	0.61000	28000.	96	52174	No
4	GOM_NL__2PRFIN20120220_063300_000000443112_00006_52175_5125.N1	20-FEB-2012 06:33:00	Dark	43.500	10	Bet Cen	0.61000	28000.	87	52175	No
5	GOM_NL__2PRFIN20120220_081315_000000493112_00007_52176_4461.N1	20-FEB-2012 08:13:15	Dark	49.000	10	Bet Cen	0.61000	28000.	98	52176	No
6	GOM_NL__2PRFIN20120220_095329_000000493112_00008_52177_4488.N1	20-FEB-2012 09:53:29	Dark	49.000	10	Bet Cen	0.61000	28000.	98	52177	No
7	GOM_NL__2PRFIN20120220_113343_000000443112_00009_52178_4511.N1	20-FEB-2012 11:33:43	Dark	43.500	10	Bet Cen	0.61000	28000.	87	52178	No
8	GOM_NL__2PRFIN20120220_131358_000000433112_00010_52179_4548.N1	20-FEB-2012 13:13:58	Dark	42.500	10	Bet Cen	0.61000	28000.	85	52179	No
9	GOM_NL__2PRFIN20120220_144225_000000413112_00010_52179_4549.N1	20-FEB-2012 14:42:25	Dark	41.000	85	Kap Sco	2.4070	28000.	82	52179	No
10	GOM_NL__2PRFIN20120220_145412_000000423112_00011_52180_4562.N1	20-FEB-2012 14:54:12	Dark	41.500	10	Bet Cen	0.61000	28000.	83	52180	No
11	GOM_NL__2PRFIN20120220_162239_000000423112_00011_52180_4563.N1	20-FEB-2012 16:22:39	Dark	41.500	85	Kap Sco	2.4070	28000.	83	52180	No
12	GOM_NL__2PRFIN20120220_163427_000000453112_00012_52181_4585.N1	20-FEB-2012 16:34:27	Dark	44.500	10	Bet Cen	0.61000	28000.	89	52181	No
13	GOM_NL__2PRFIN20120220_175958_000000453112_00012_52181_4586.N1	20-FEB-2012 17:59:58	Dark	45.000	167	10Gam2Sgr	2.9840	4500.0	90	52181	No
14	GOM_NL__2PRFIN20120220_180254_000000423112_00012_52181_4587.N1	20-FEB-2012 18:02:54	Dark	41.500	85	Kap Sco	2.4070	28000.	83	52181	No
15	GOM_NL__2PRFIN20120220_181442_000000423112_00013_52182_4630.N1	20-FEB-2012 18:14:42	Dark	41.500	10	Bet Cen	0.61000	28000.	83	52182	No
16	GOM_NL__2PRFIN20120220_194013_000000423112_00013_52182_4631.N1	20-FEB-2012 19:40:13	Dark	42.000	167	10Gam2Sgr	2.9840	4500.0	84	52182	No
17	GOM_NL__2PRFIN20120220_194308_000000413112_00013_52182_4632.N1	20-FEB-2012 19:43:08	Dark	40.500	85	Kap Sco	2.4070	28000.	81	52182	No
18	GOM_NL__2PRFIN20120220_195456_000000443112_00014_52183_4690.N1	20-FEB-2012 19:54:56	Dark	43.500	10	Bet Cen	0.61000	28000.	87	52183	No
19	GOM_NL__2PRFIN20120220_212027_000000433112_00014_52183_4691.N1	20-FEB-2012 21:20:27	Dark	43.000	167	10Gam2Sgr	2.9840	4500.0	86	52183	No
20	GOM_NL__2PRFIN20120220_212322_000000403112_00014_52183_4692.N1	20-FEB-2012 21:23:22	Dark	39.500	85	Kap Sco	2.4070	28000.	79	52183	No
21	GOM_NL__2PRFIN20120220_213510_000000413112_00015_52184_4724.N1	20-FEB-2012 21:35:10	Dark	41.000	10	Bet Cen	0.61000	28000.	82	52184	No
22	GOM_NL__2PRFIN20120220_230041_000000473112_00015_52184_4725.N1	20-FEB-2012 23:00:41	Dark	46.500	167	10Gam2Sgr	2.9840	4500.0	93	52184	No
23	GOM_NL__2PRFIN20120220_230337_000000403112_00015_52184_4726.N1	20-FEB-2012 23:03:37	Dark	40.000	85	Kap Sco	2.4070	28000.	80	52184	No
24	GOM_NL__2PRFIN20120220_231525_000000453112_00016_52185_4749.N1	20-FEB-2012 23:15:25	Dark	45.000	10	Bet Cen	0.61000	28000.	90	52185	No

3. Quality information per product

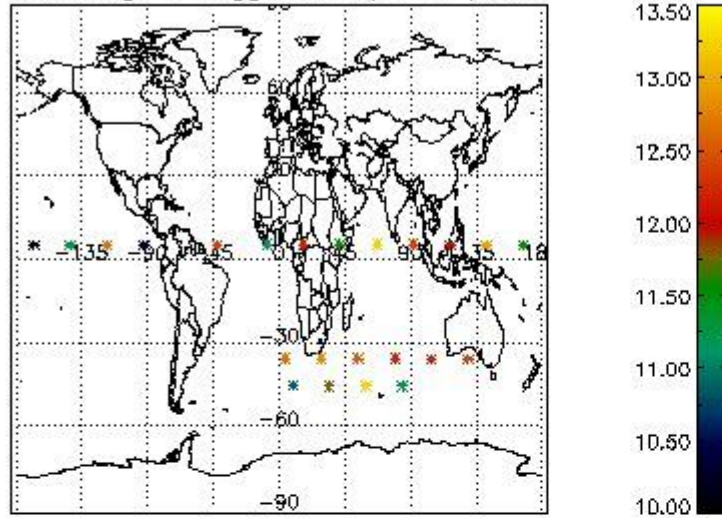
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

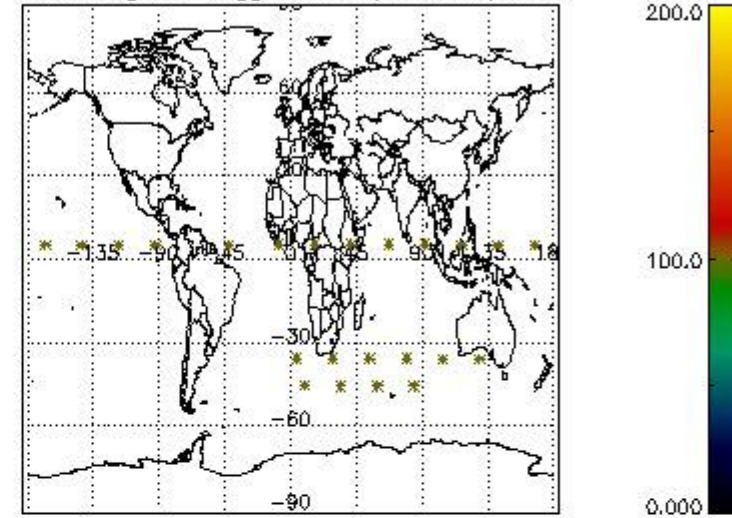


3.2 Plot quality information per product (world map)

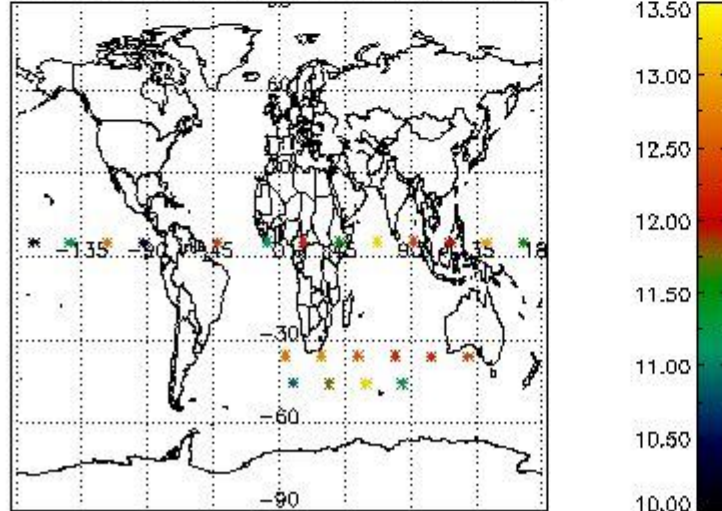
Percentage of flagged data per O3 profile



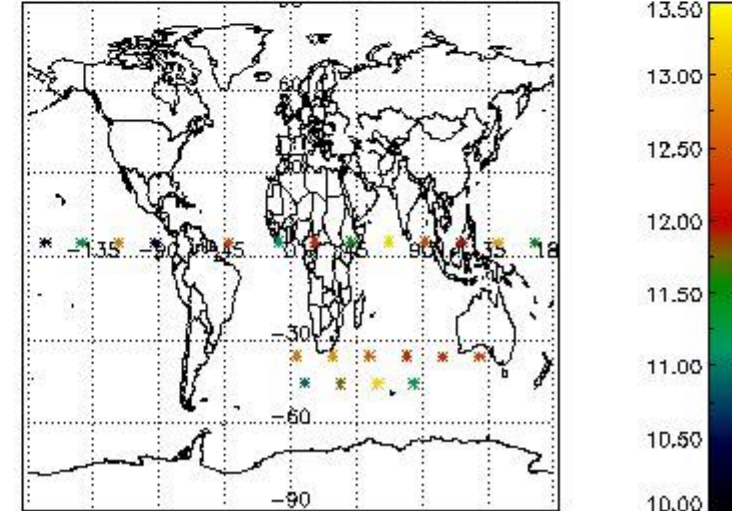
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

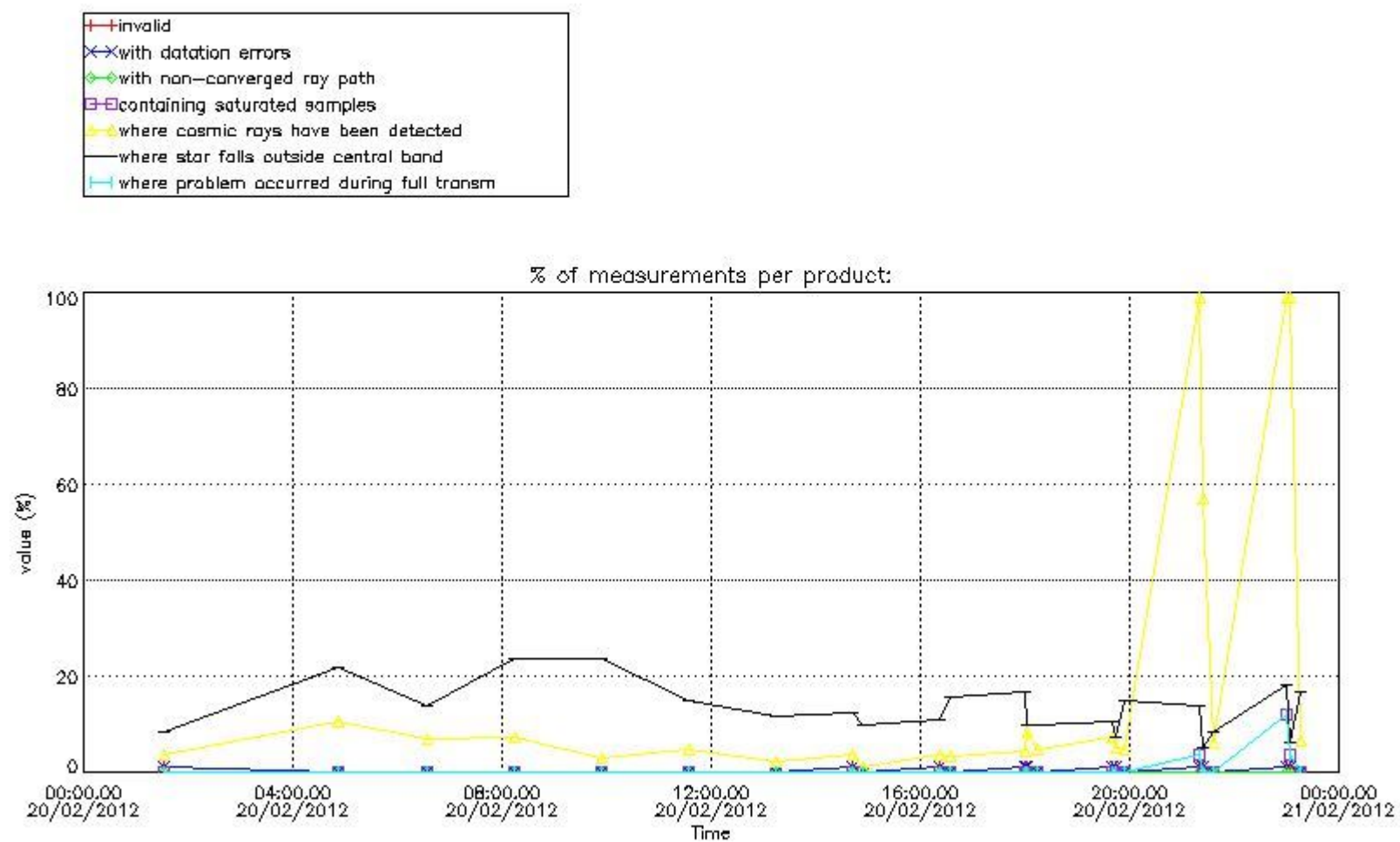


4. Level 1 quality information per product

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

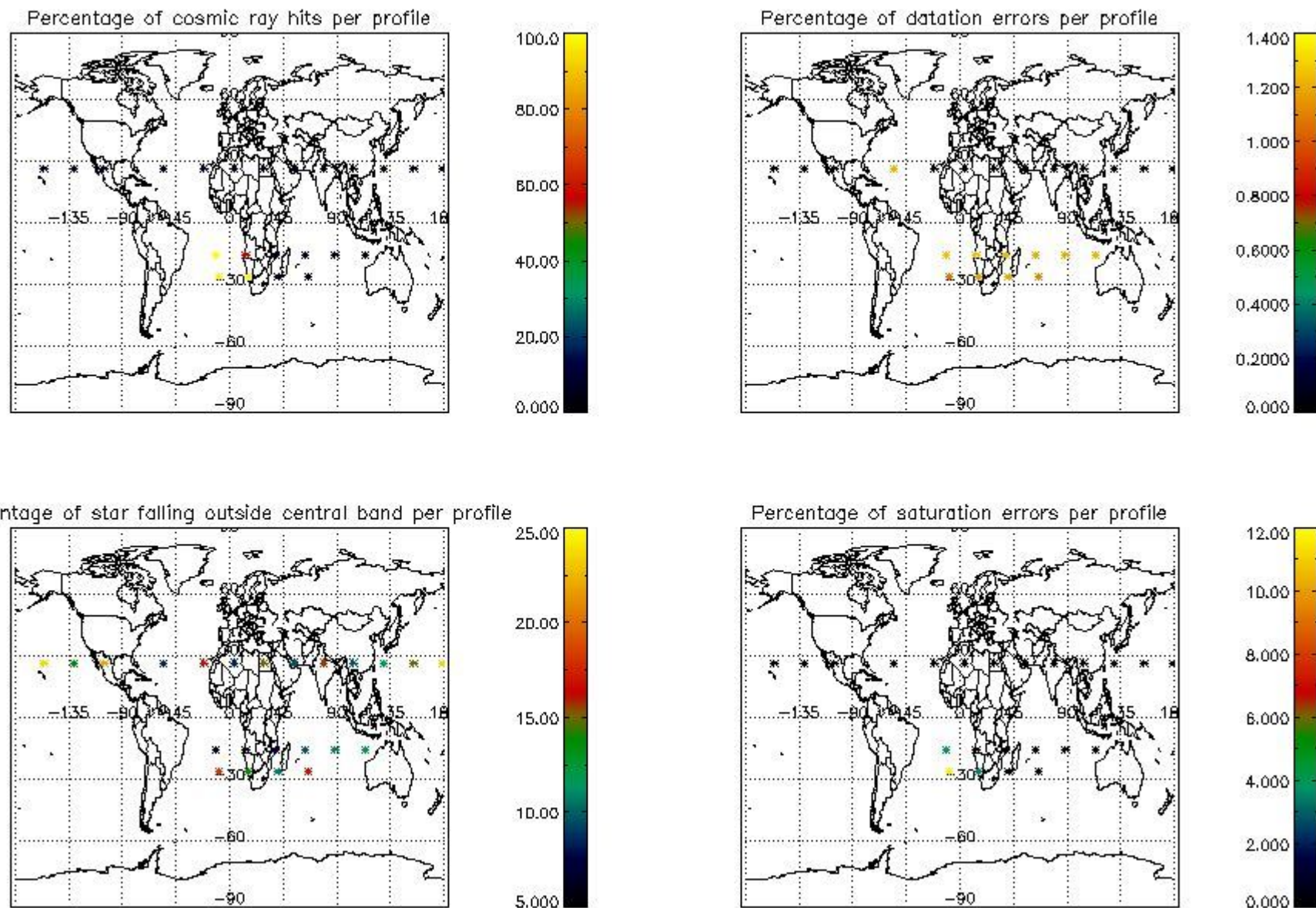


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

!Warning: No products without errors in descending found

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

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



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

!Warning: No products without errors in descending found

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:

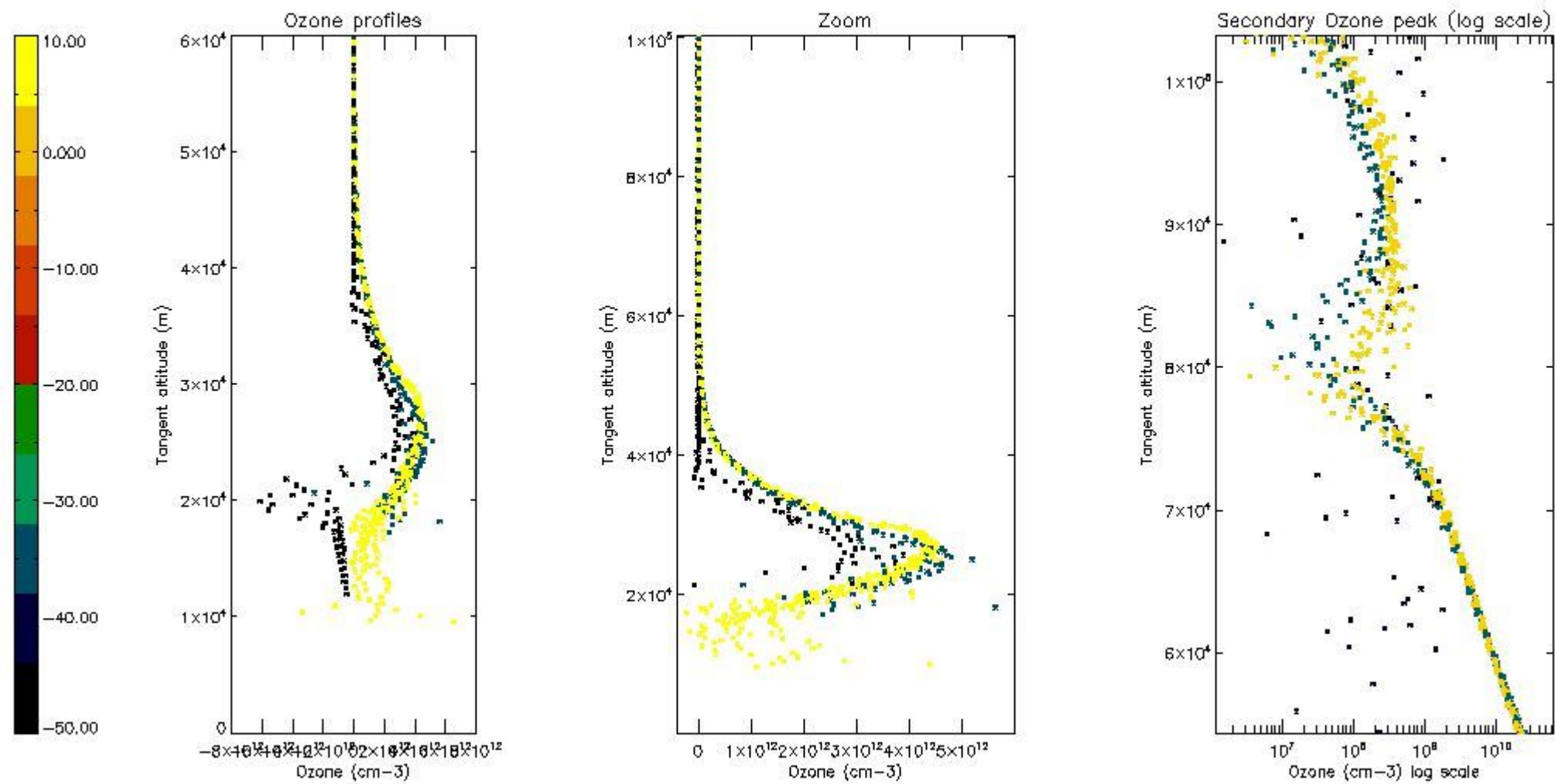
- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

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	100
STD < 20	64
STD < 10	56
STD < 5	48

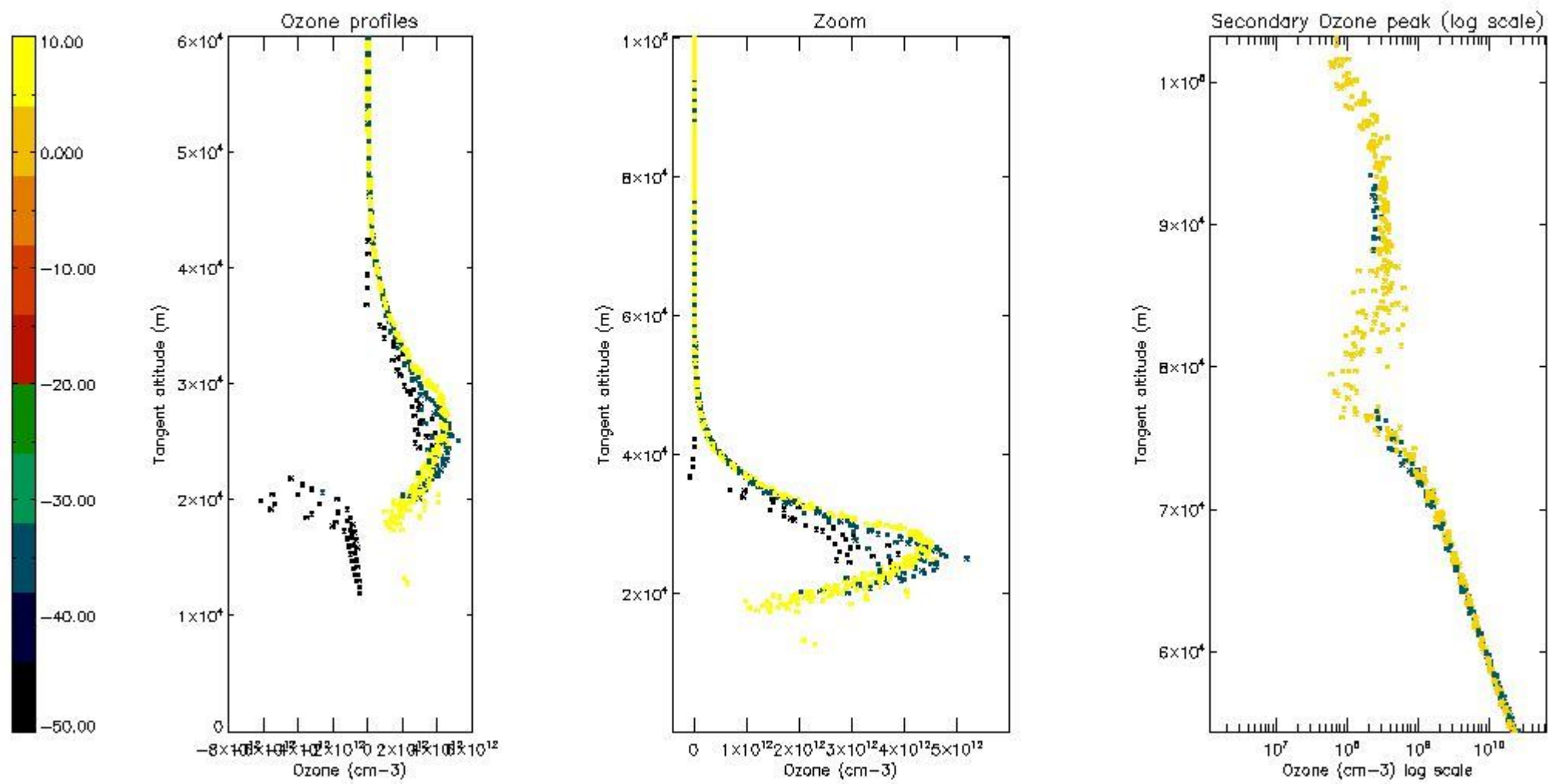
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



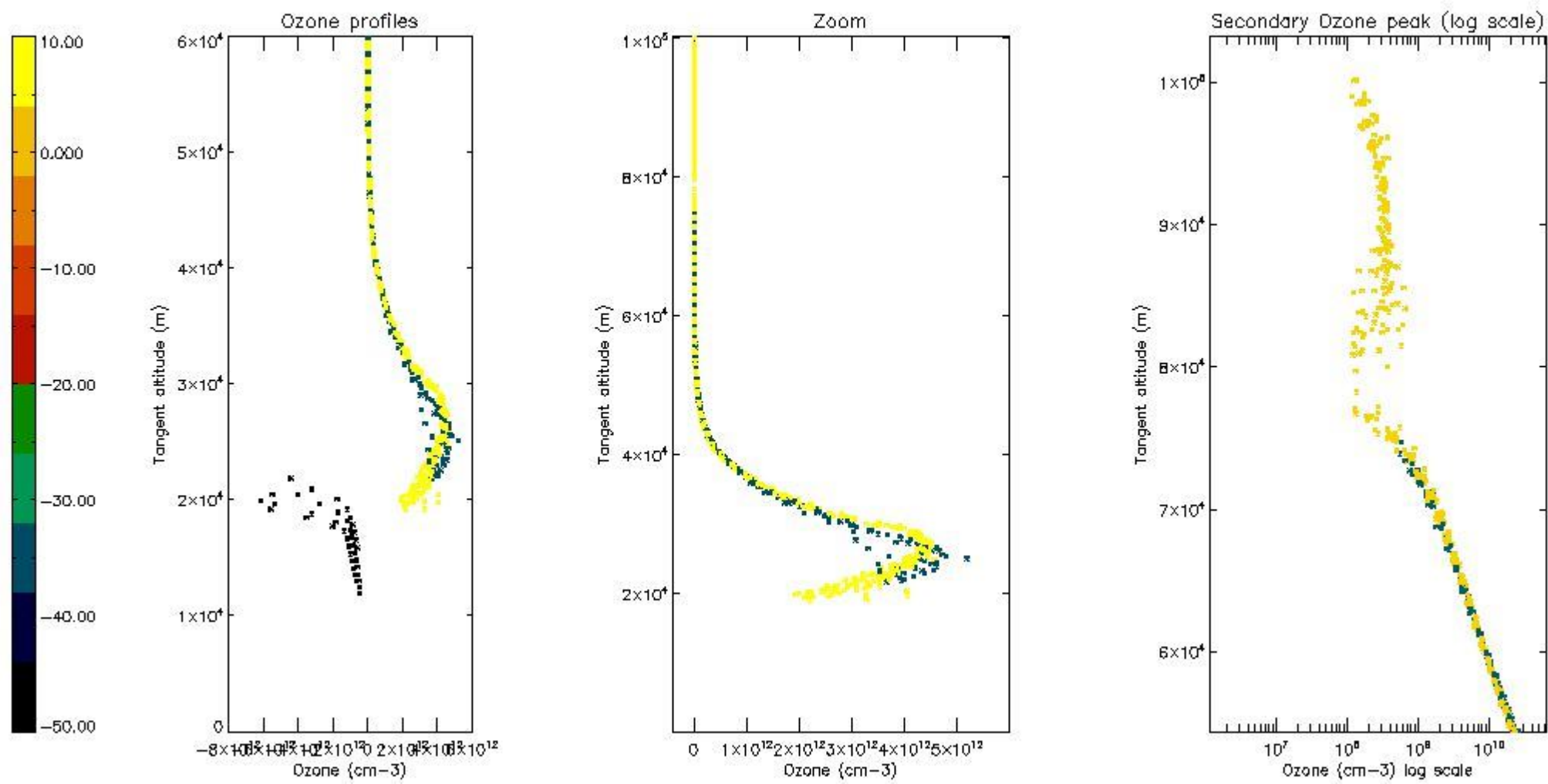
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



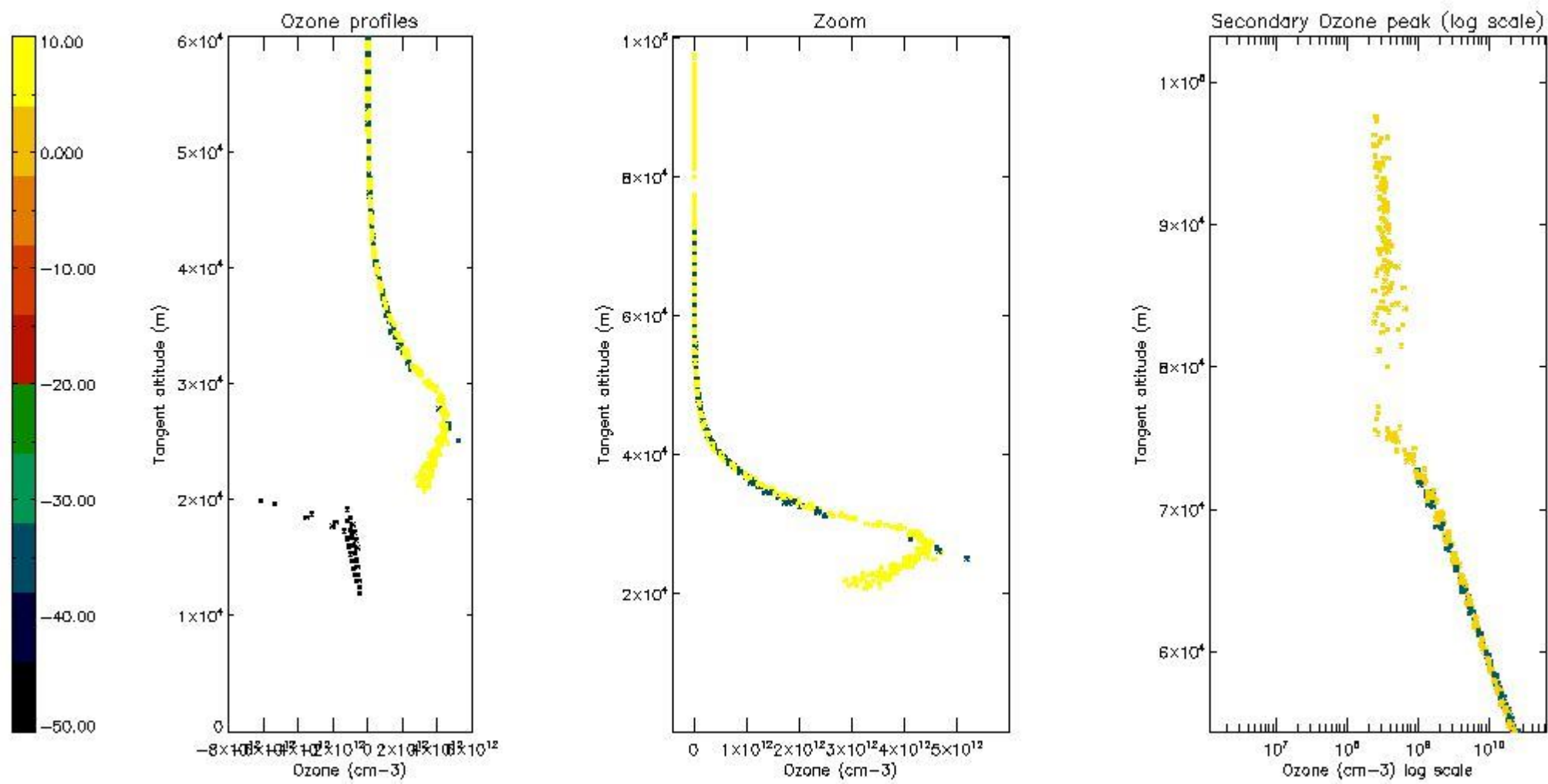
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



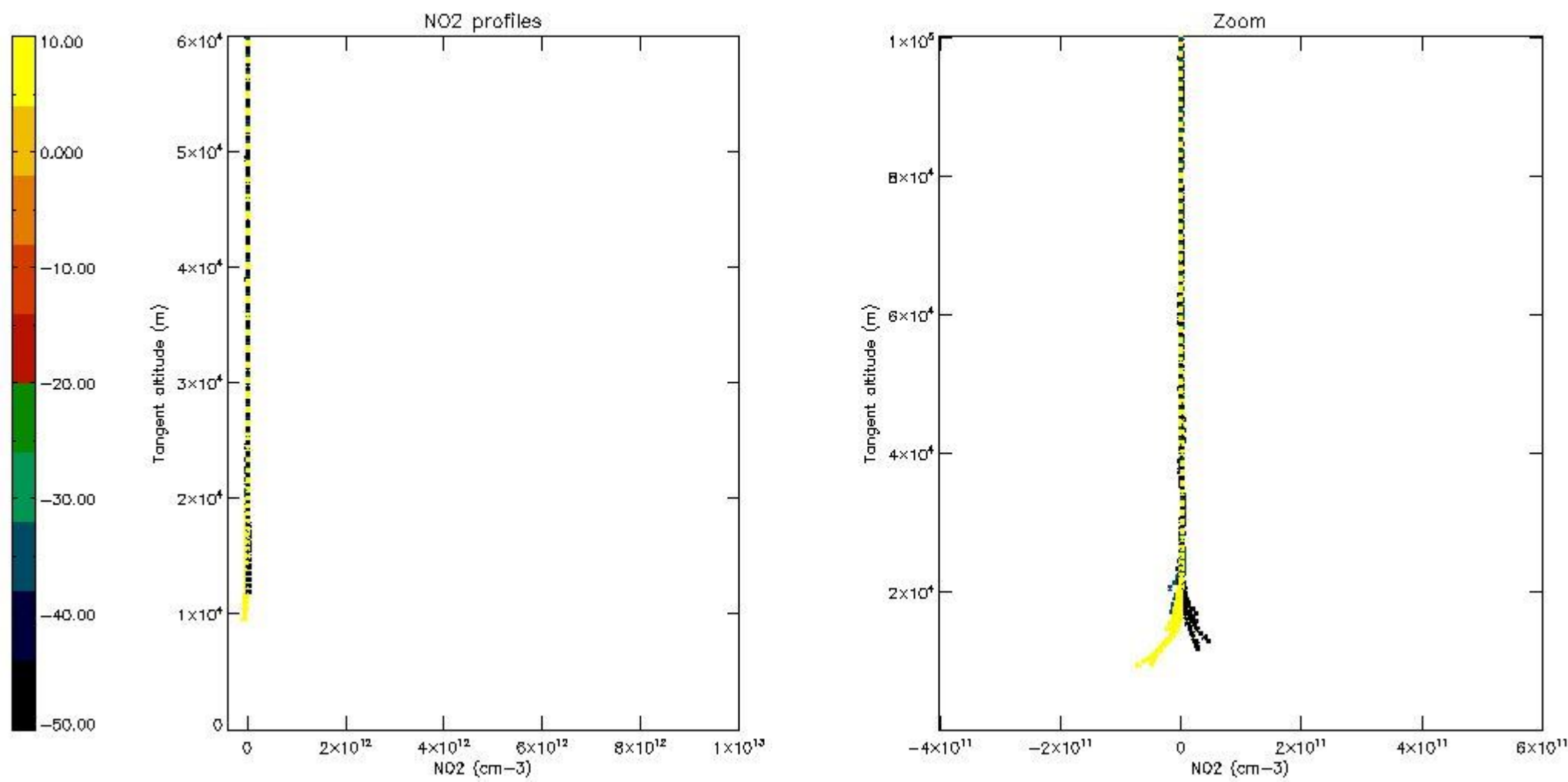
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



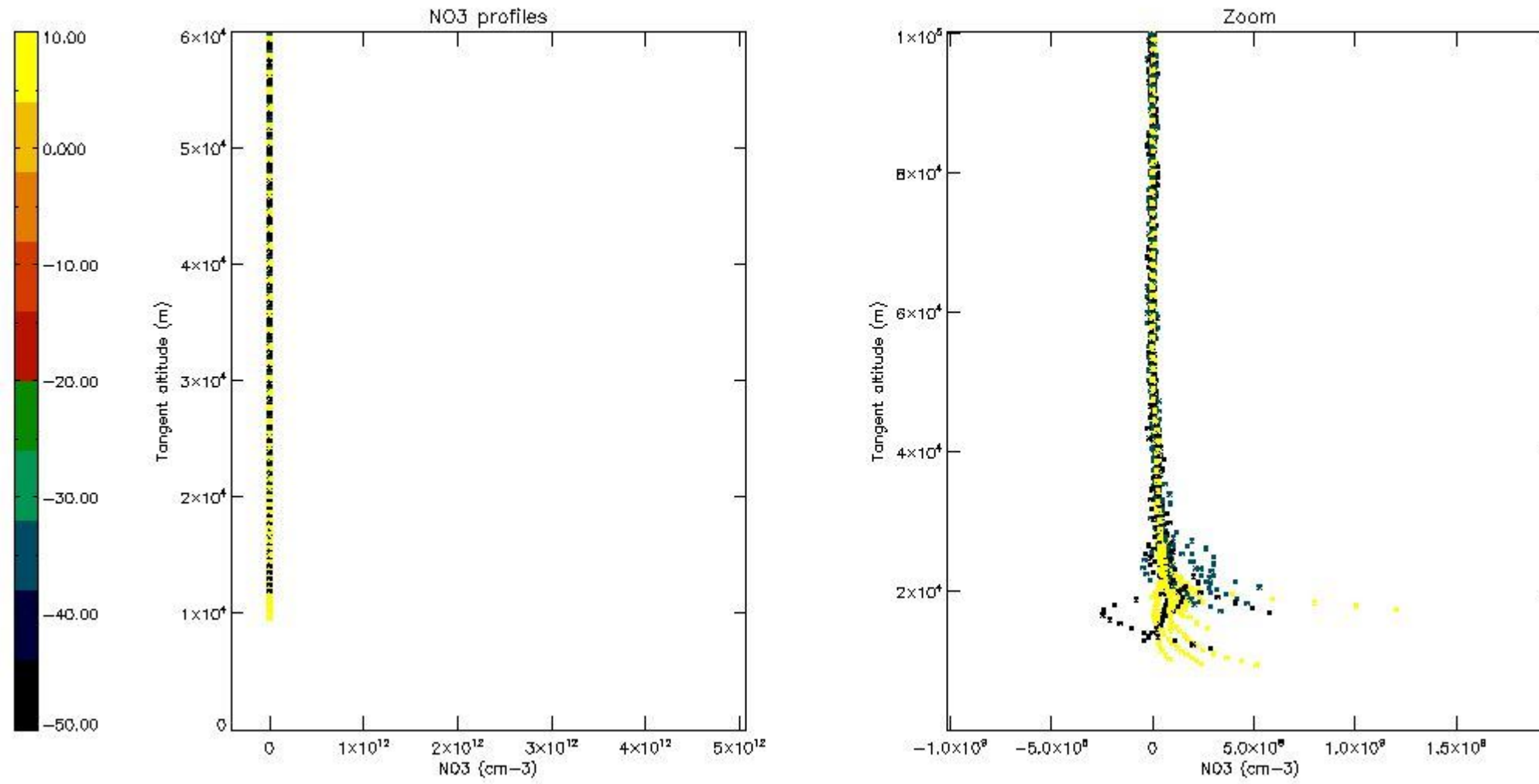
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

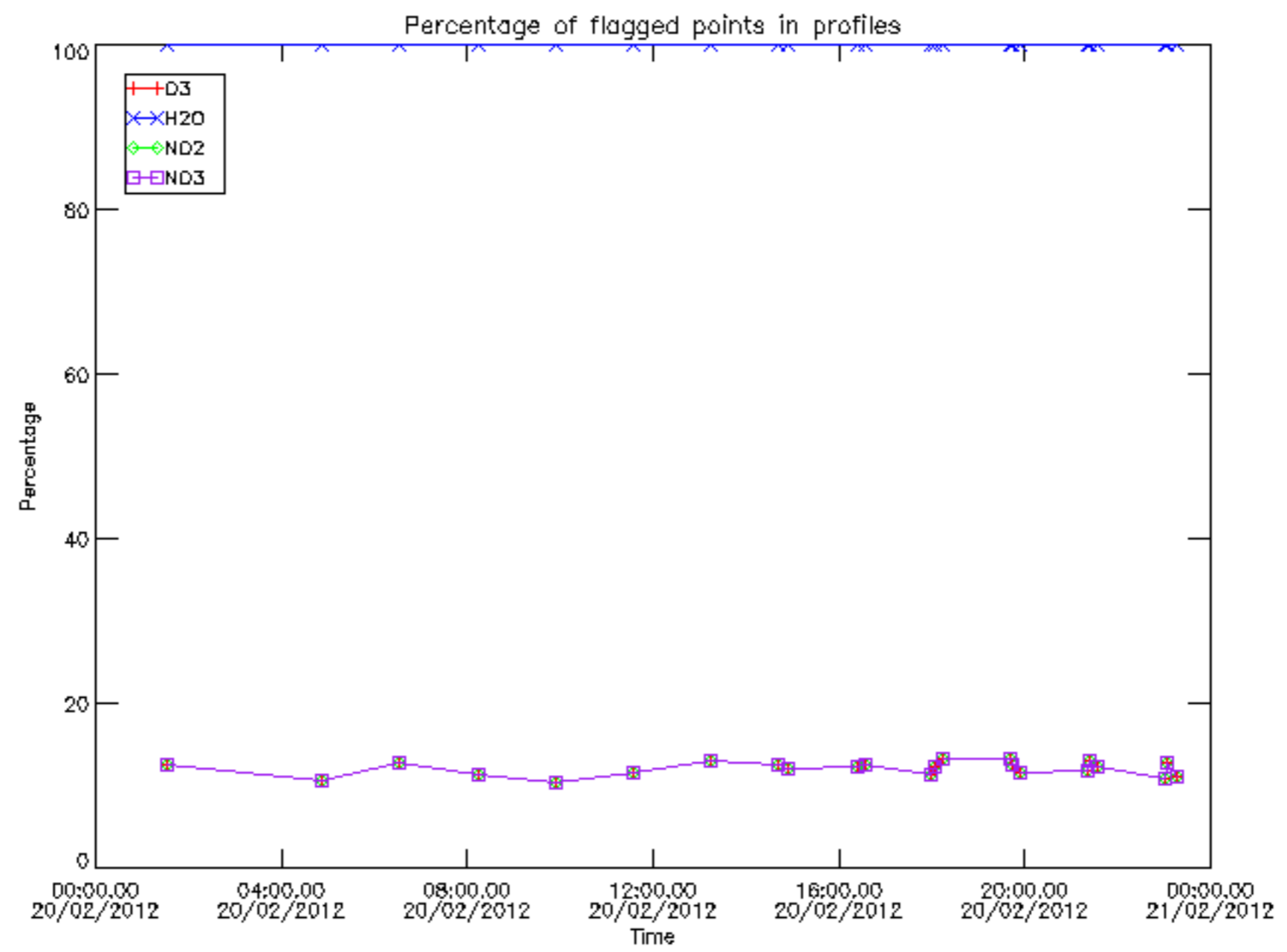
The colorbar represents the latitude.



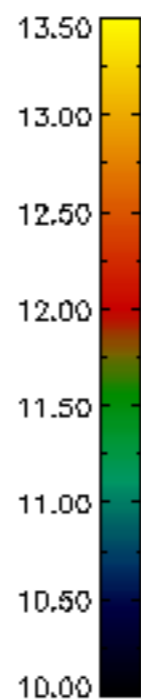
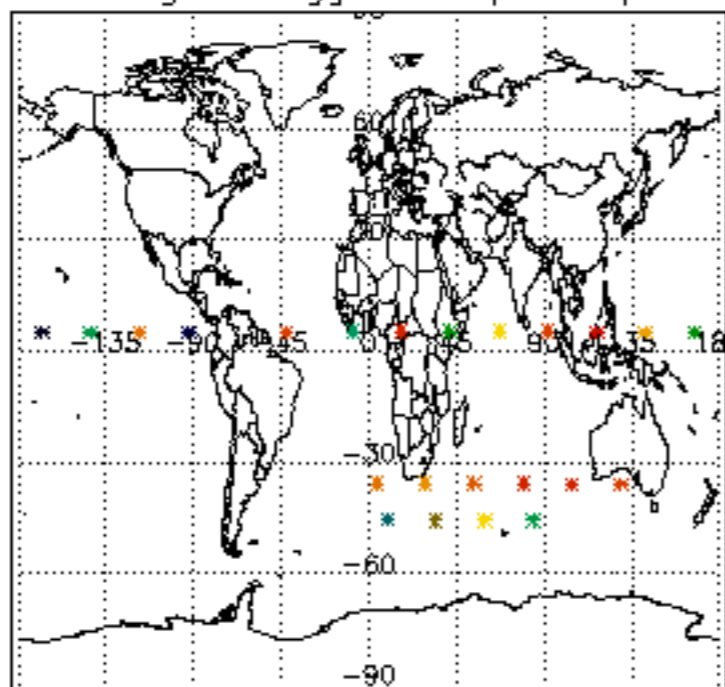
6. Auxiliary Data Files used for the production reported in section 2

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.

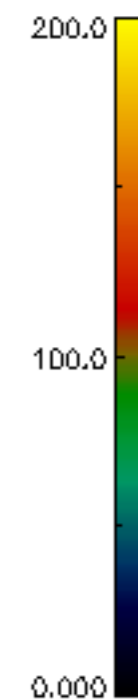
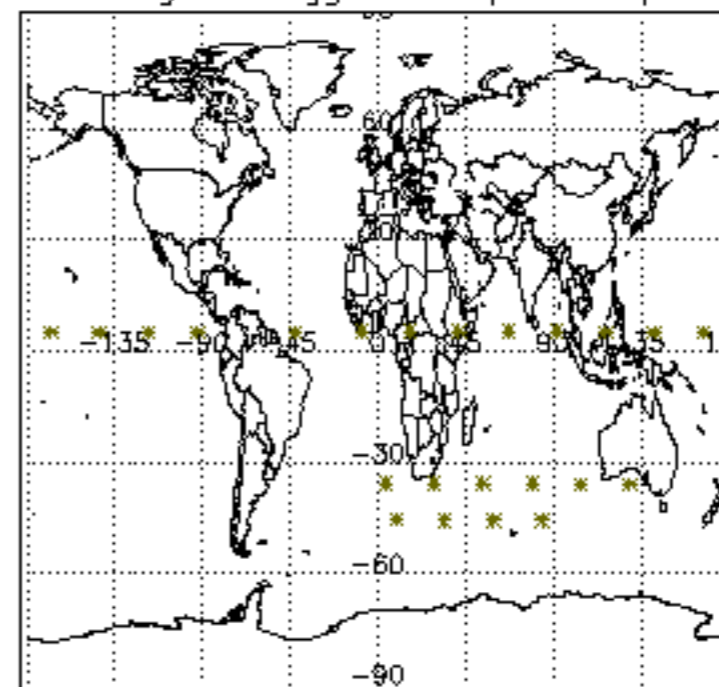
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	20-FEB-2012 01:32:16
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	20-FEB-2012 01:32:16
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	20-FEB-2012 01:32:16



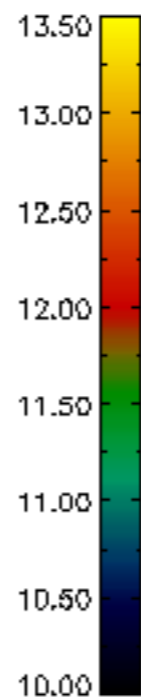
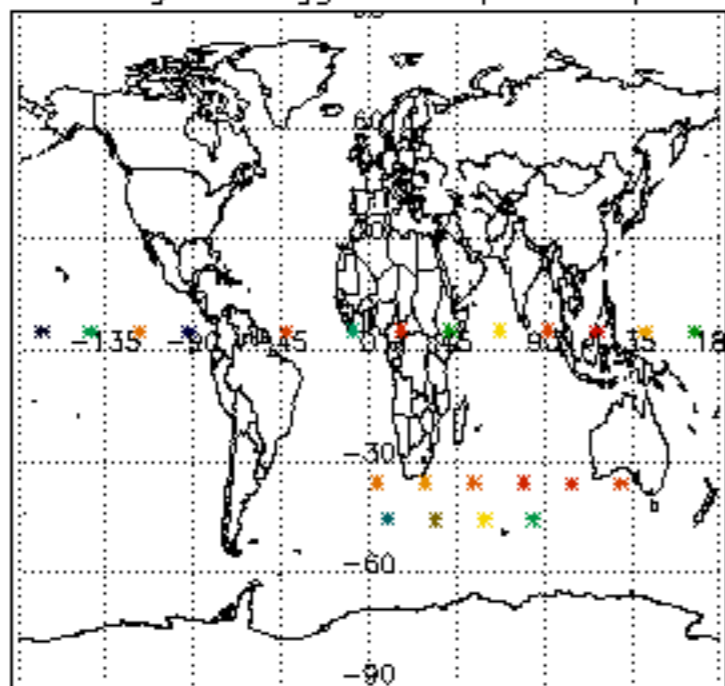
Percentage of flagged data per D3 profile



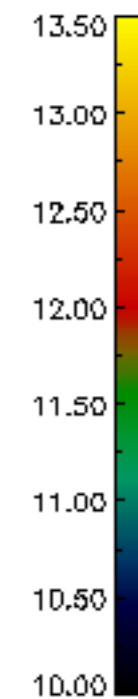
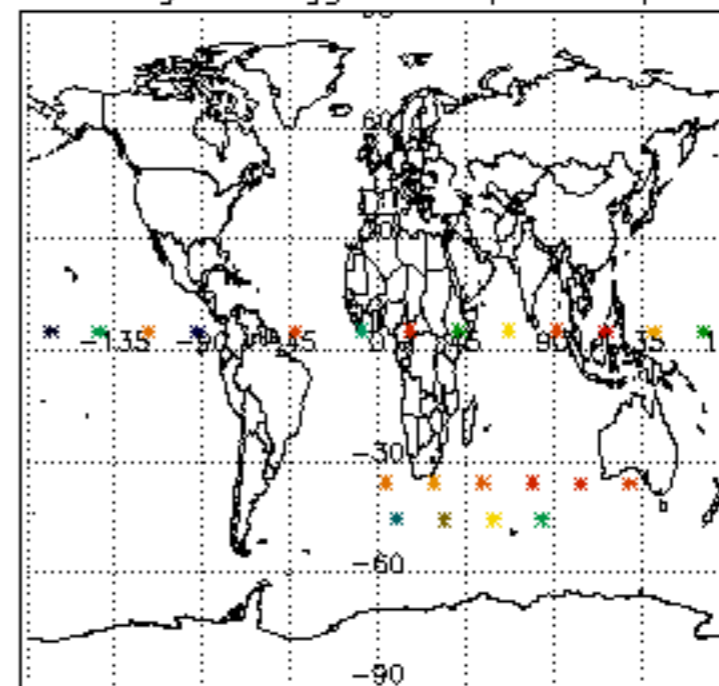
Percentage of flagged data per H2O profile

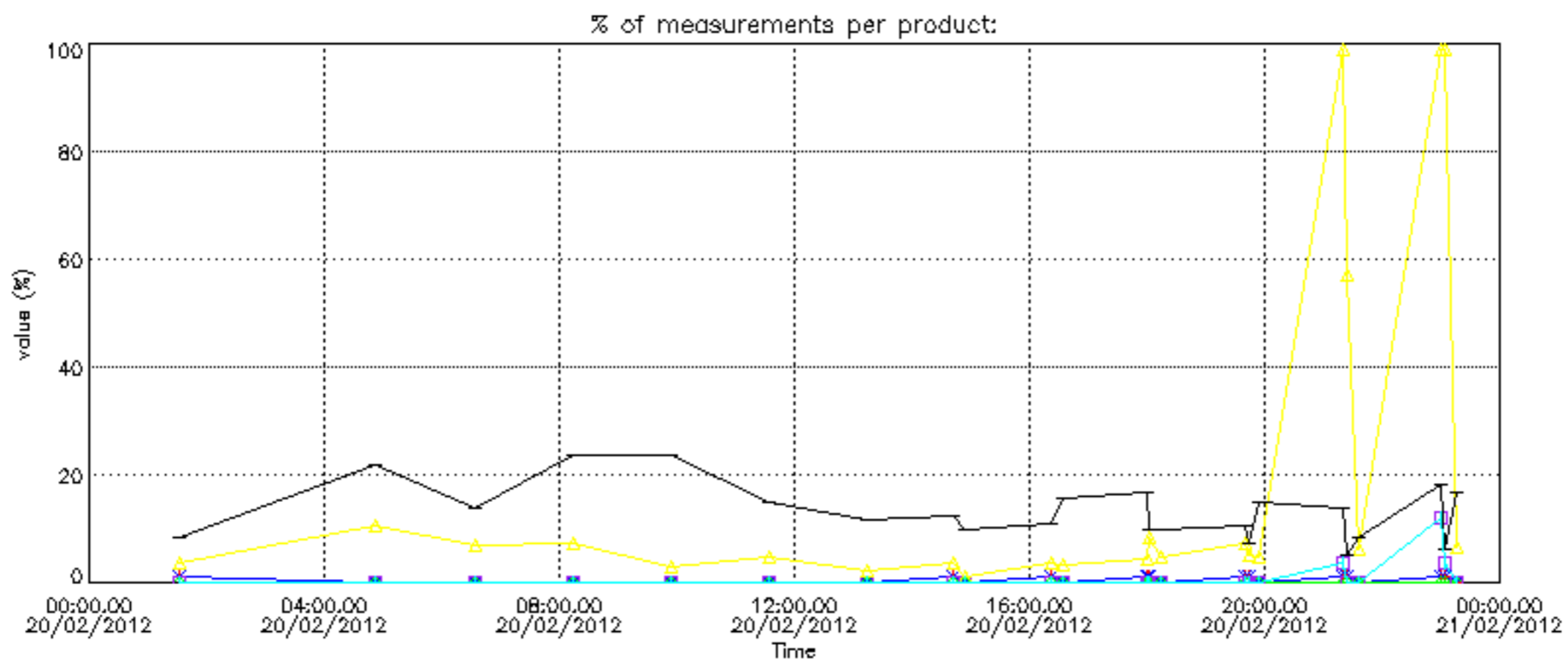


Percentage of flagged data per NO2 profile

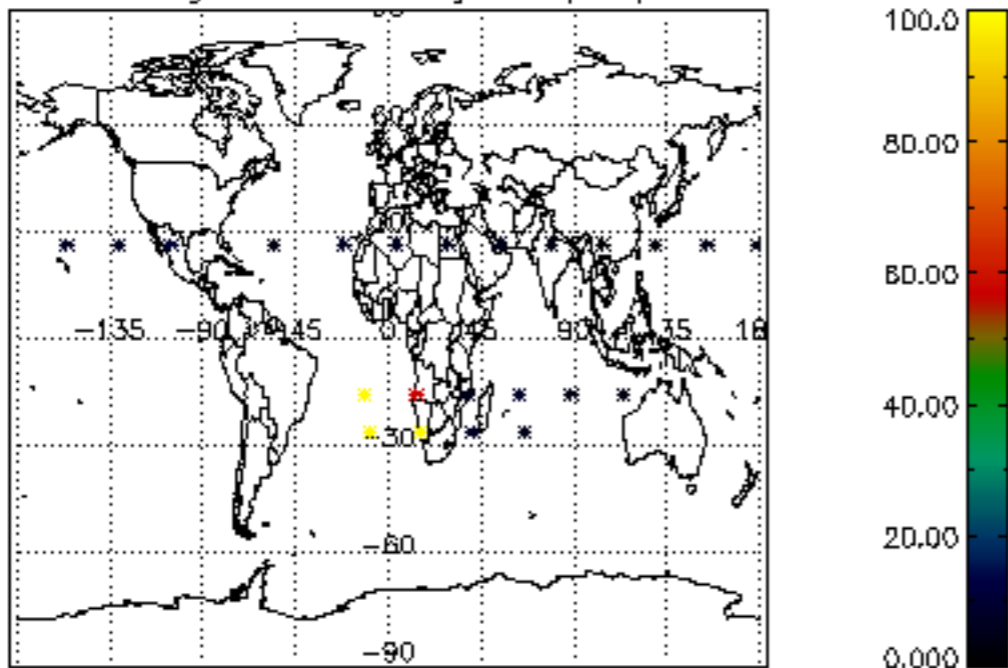


Percentage of flagged data per NO3 profile

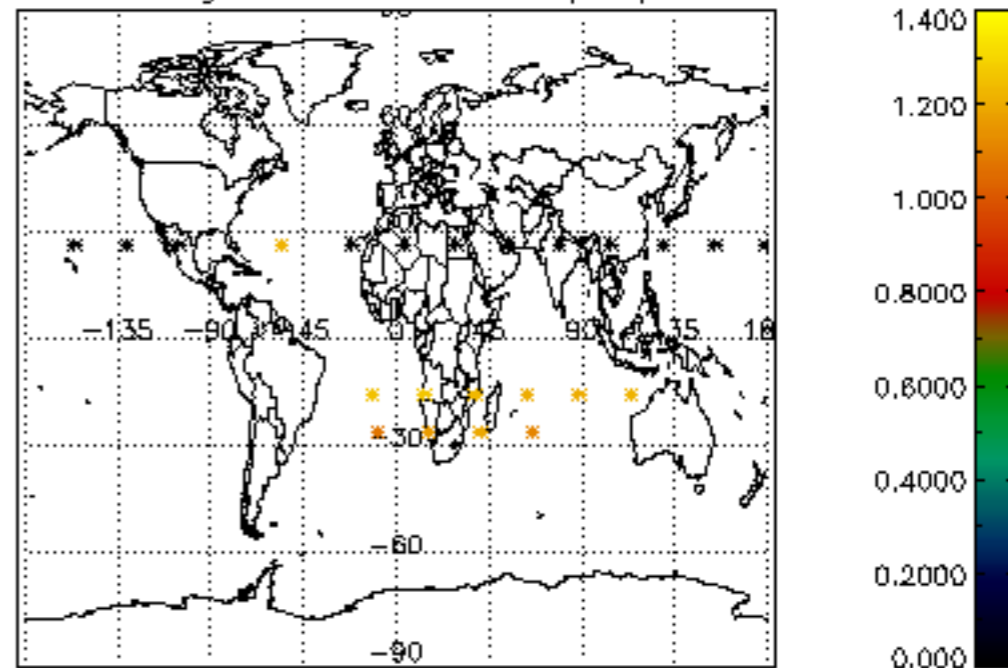




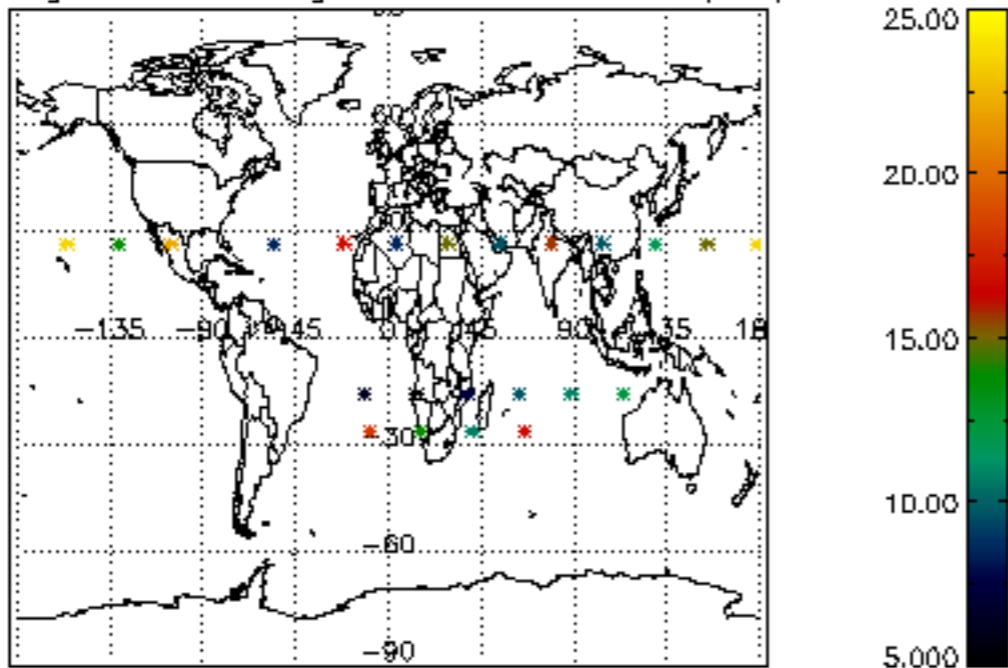
Percentage of cosmic ray hits per profile



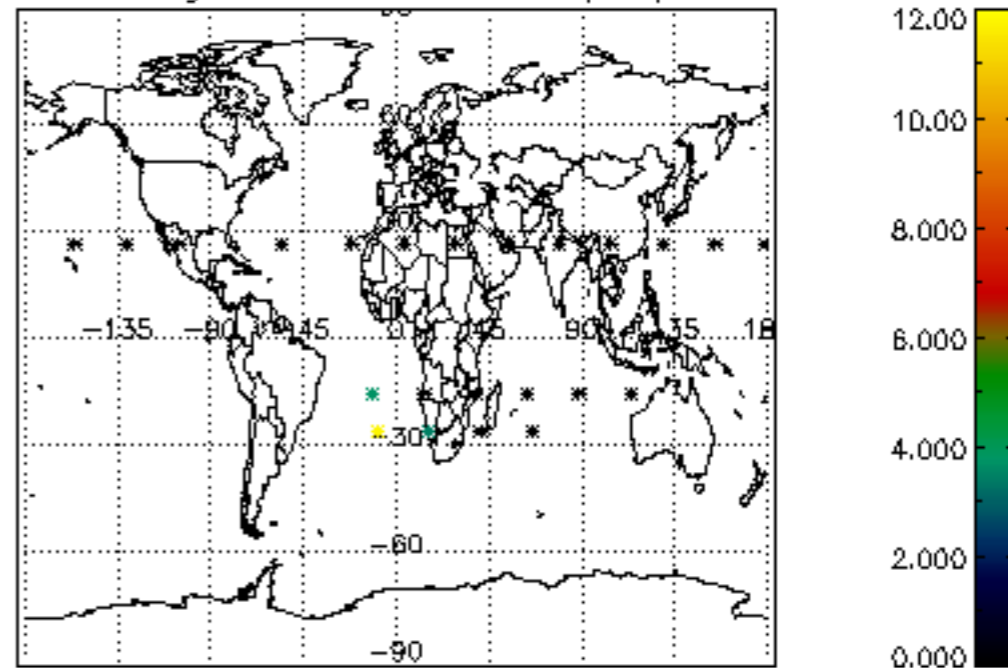
Percentage of datation errors per profile

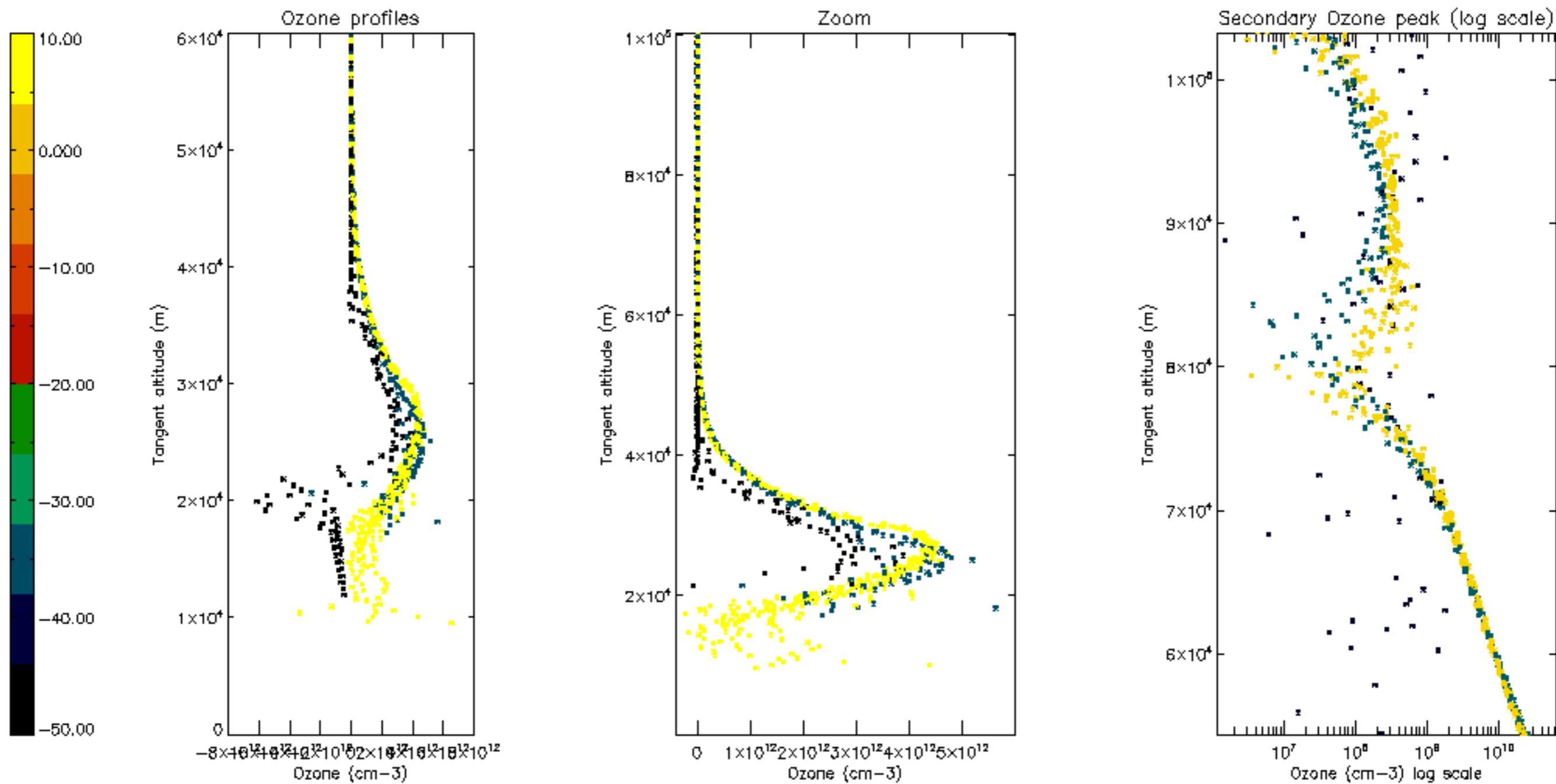


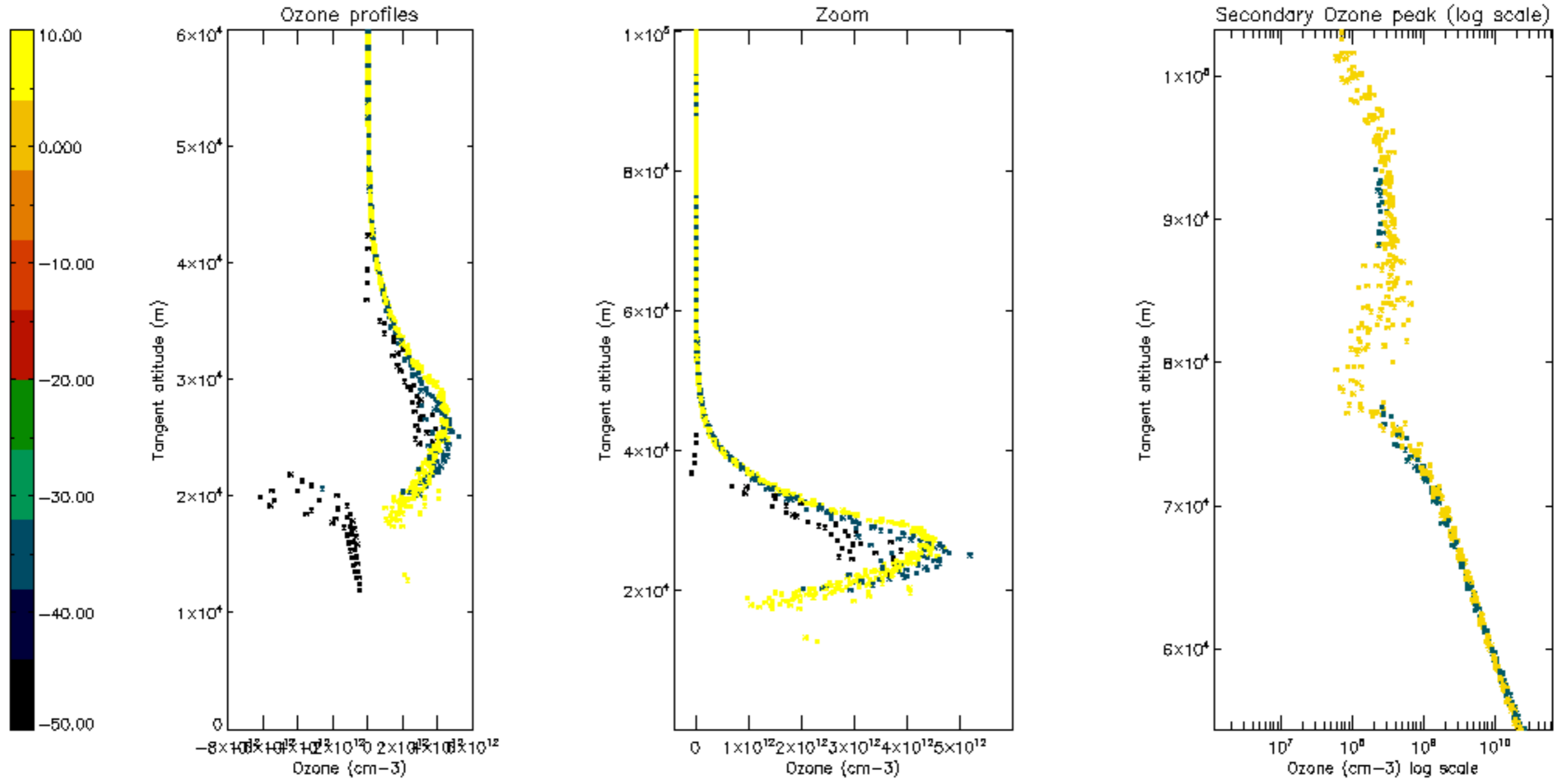
Percentage of star falling outside central band per profile

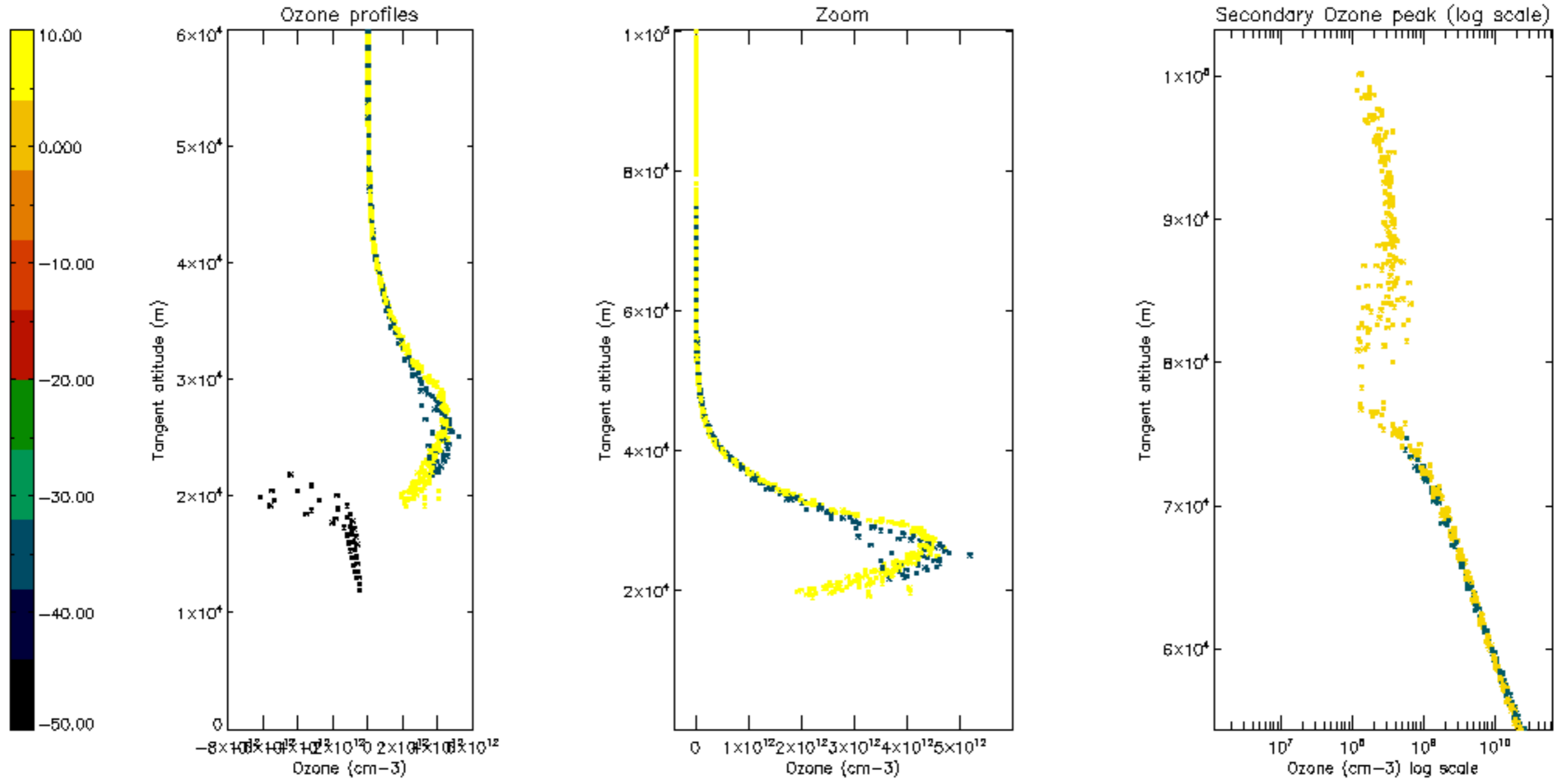


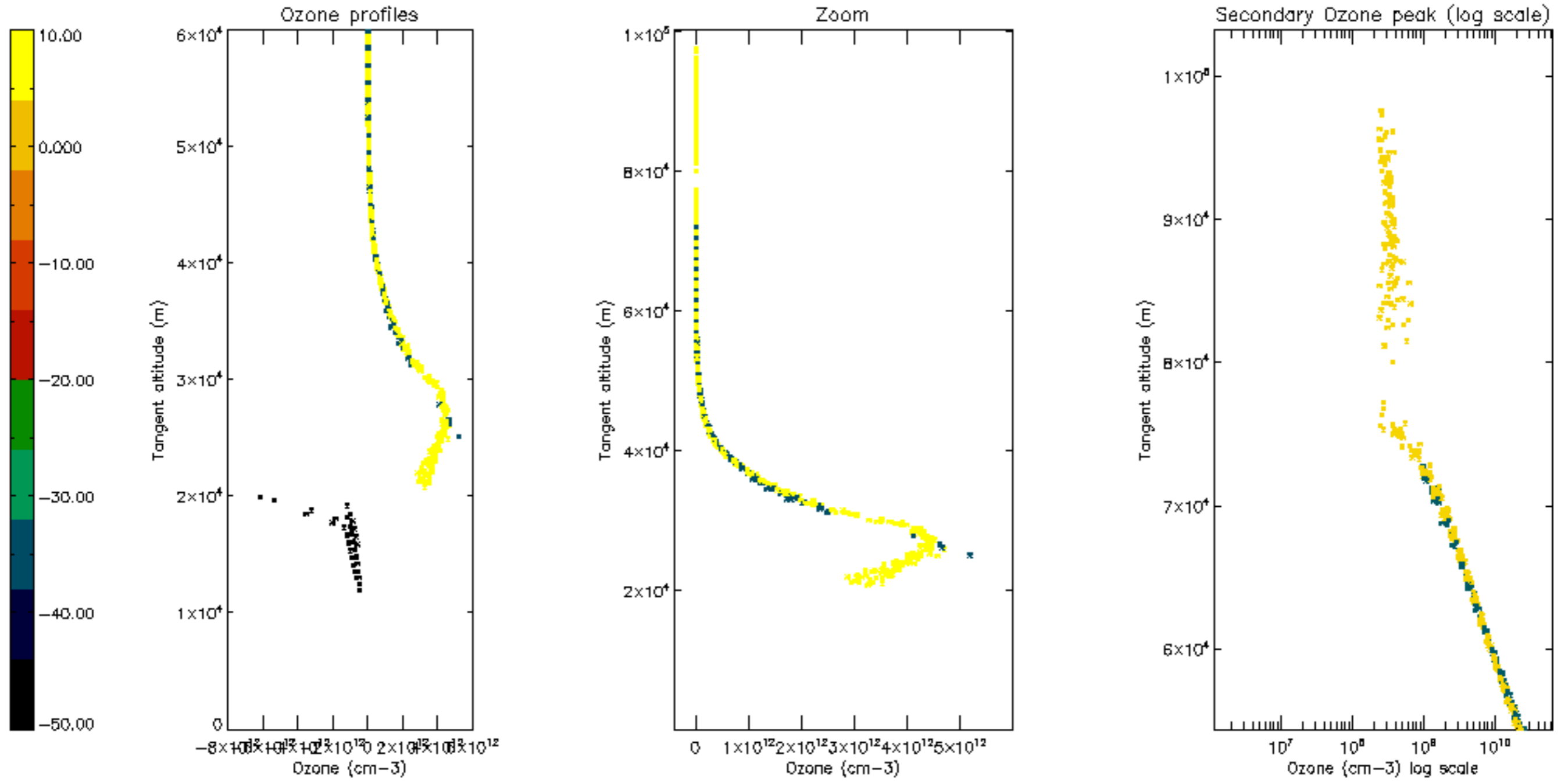
Percentage of saturation errors per profile

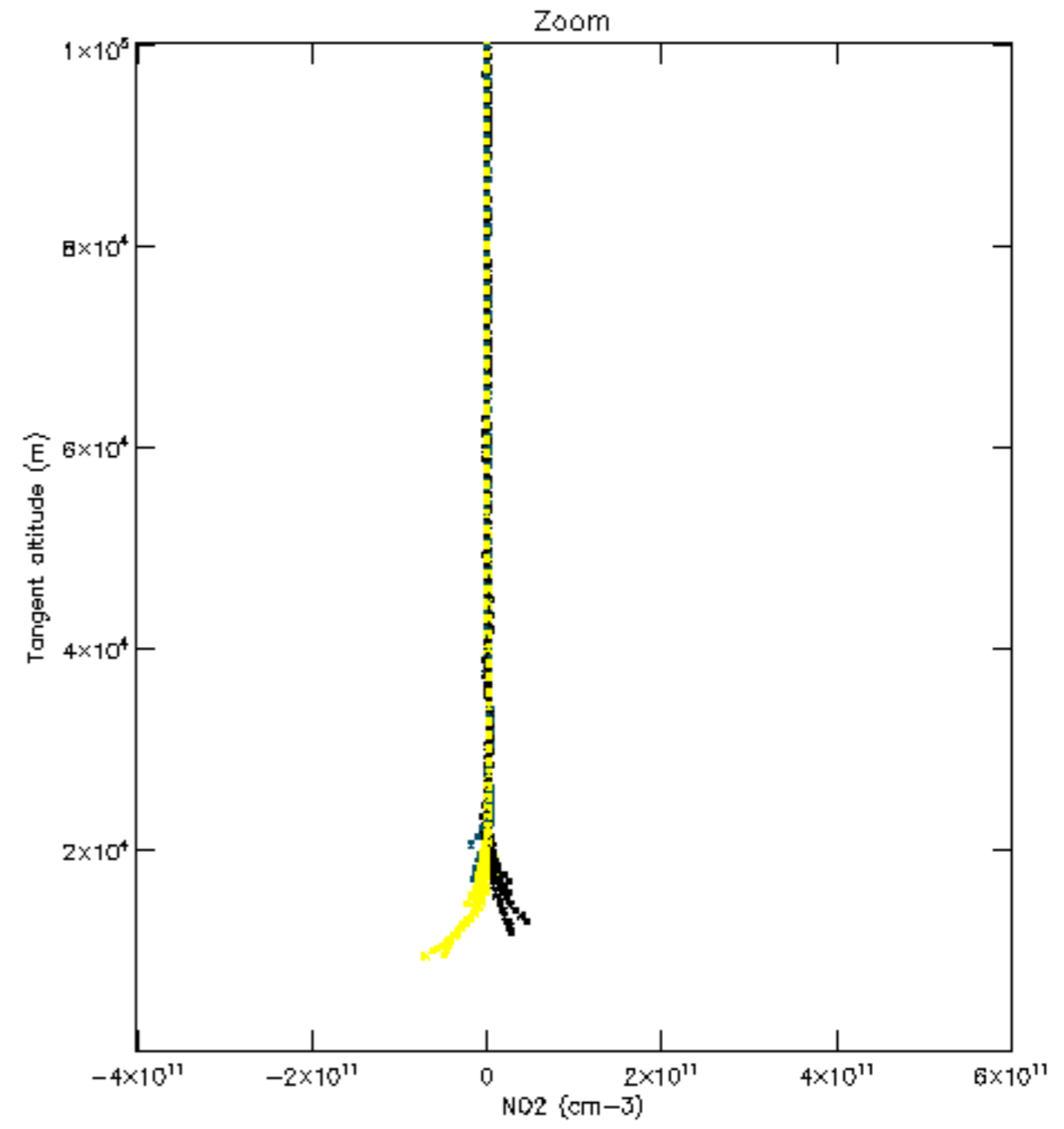
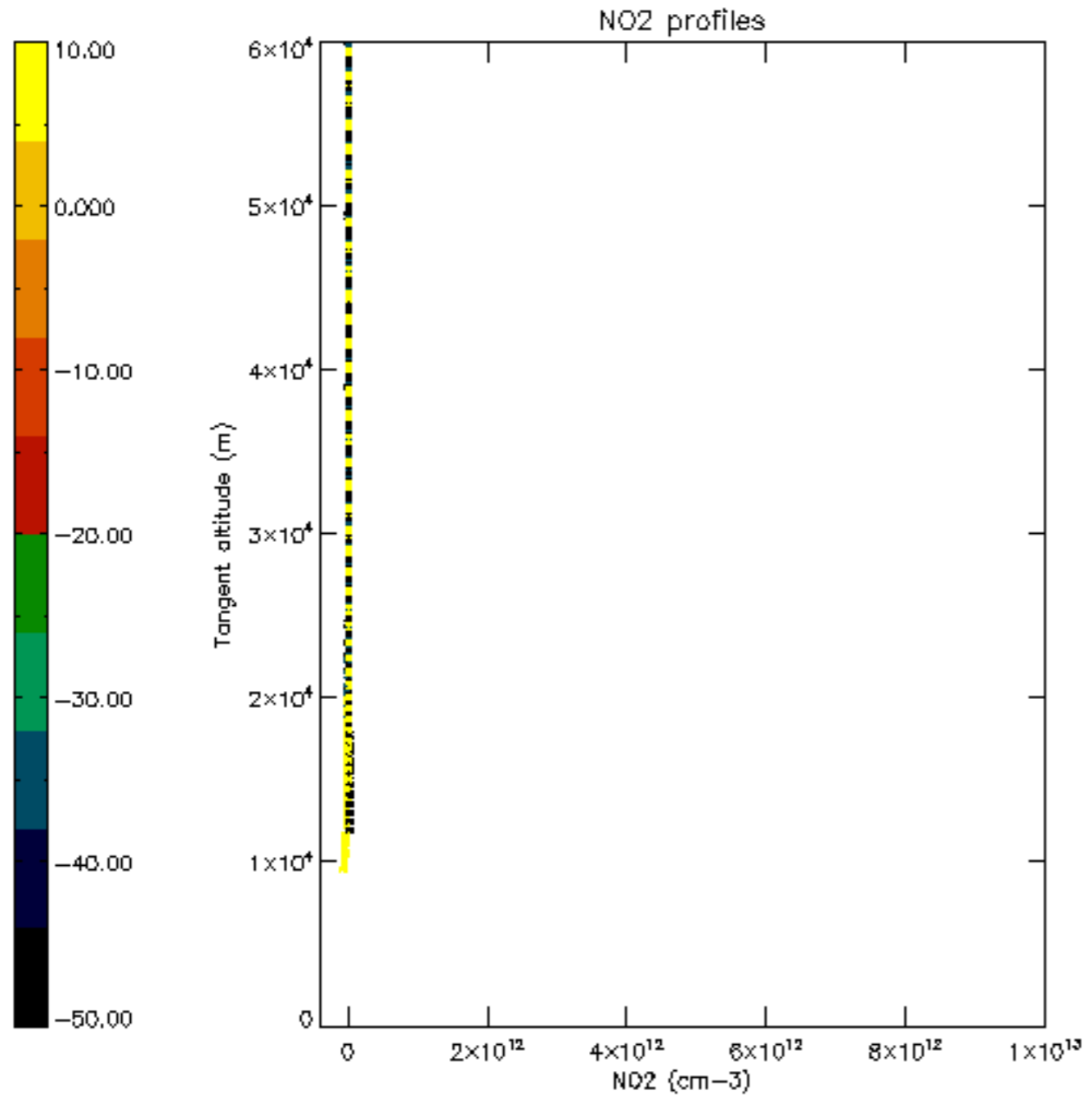


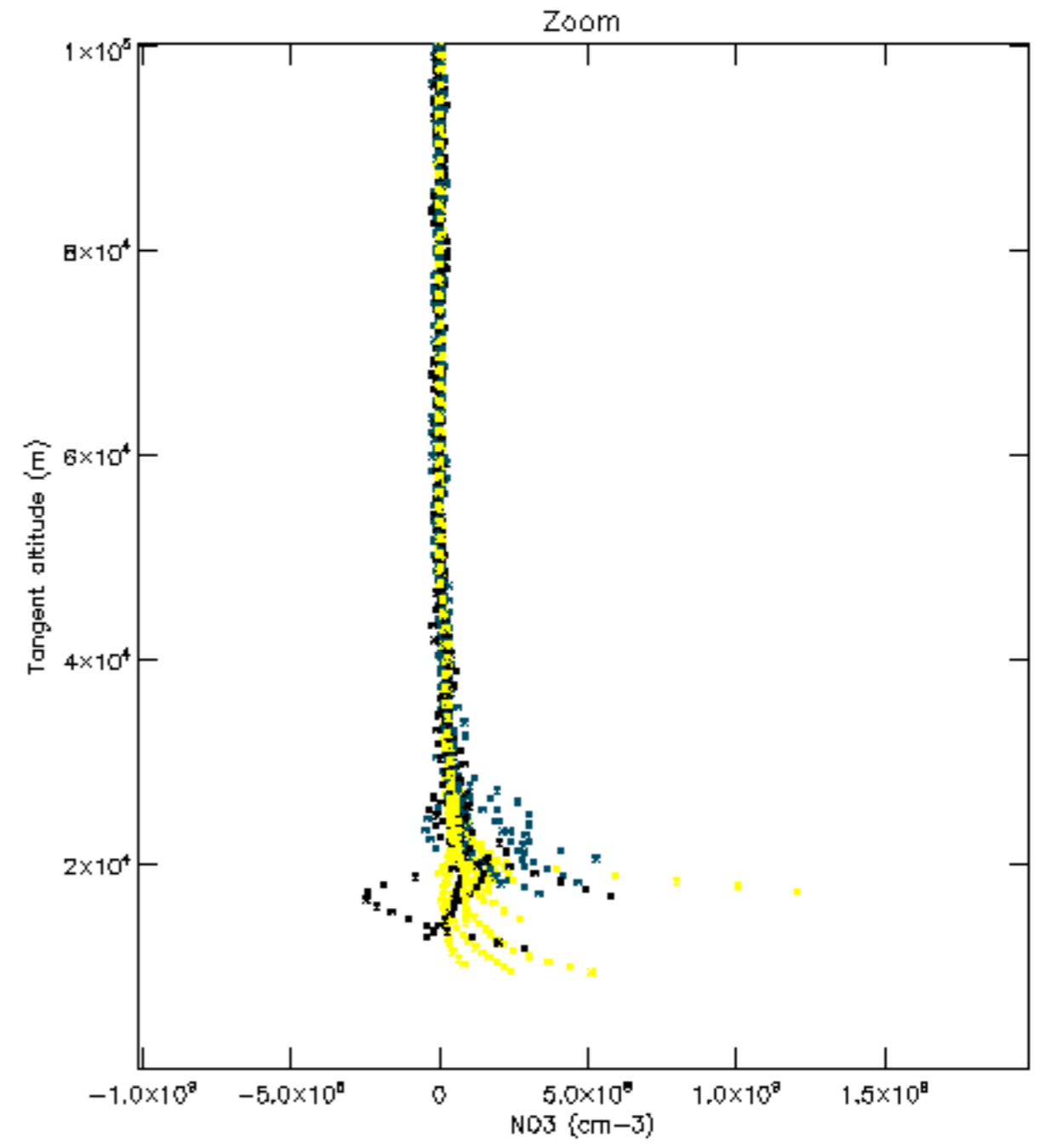
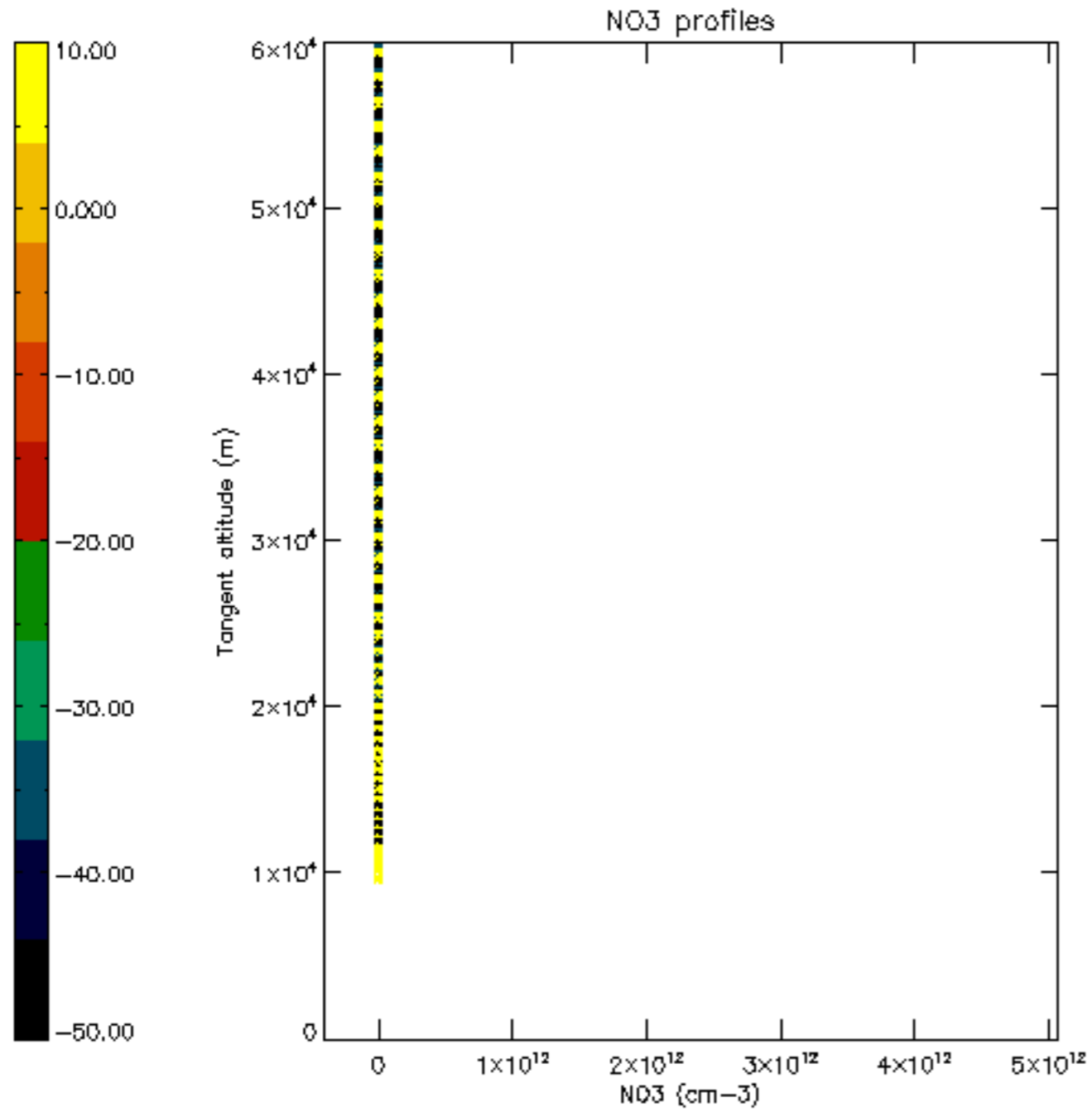


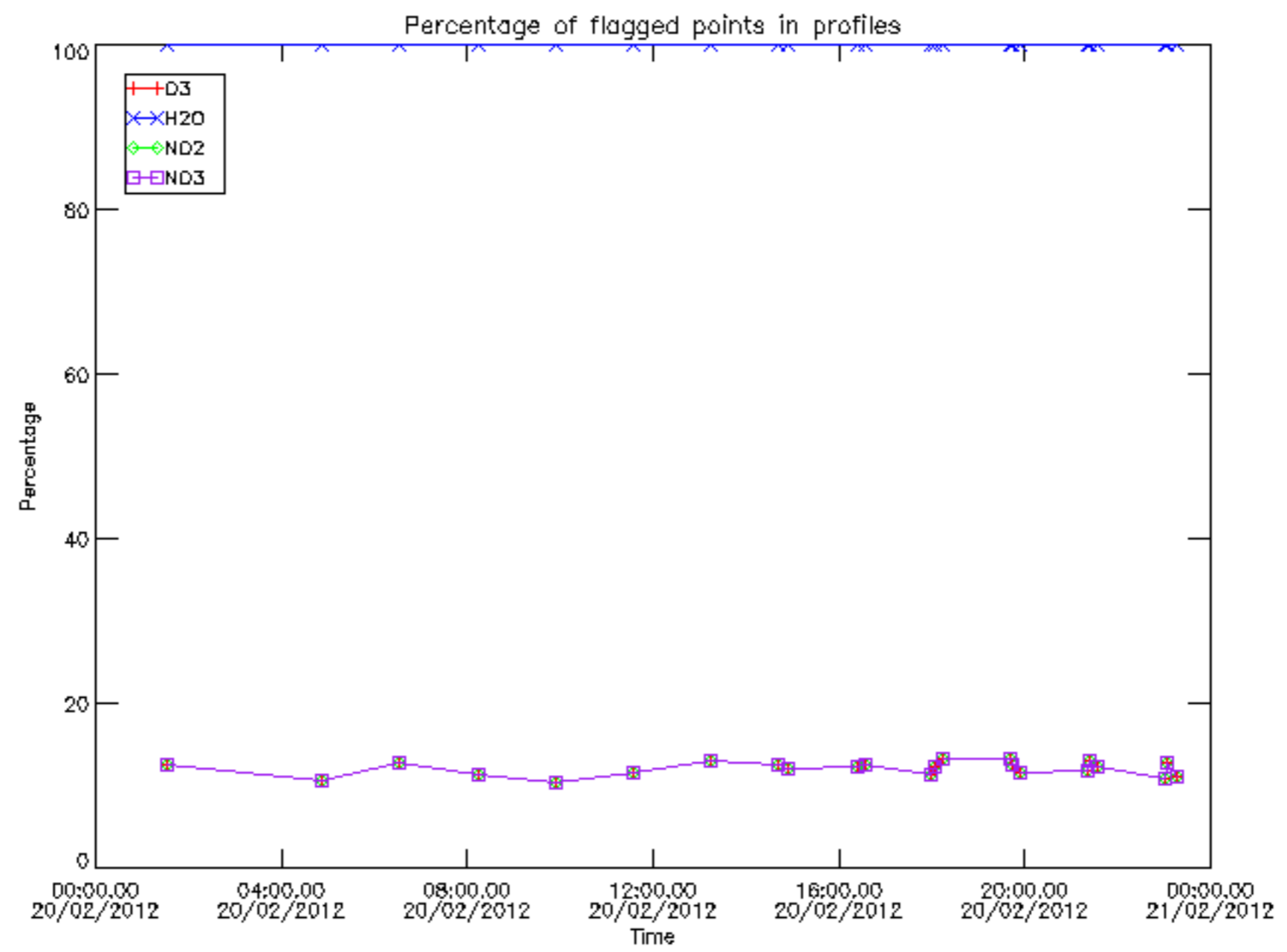




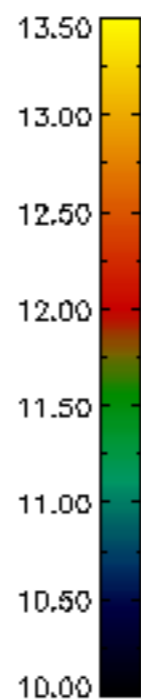
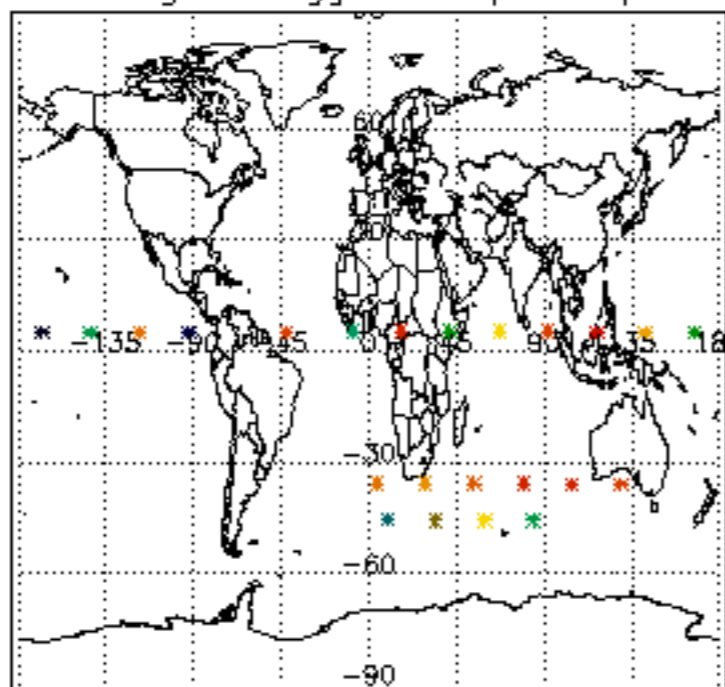




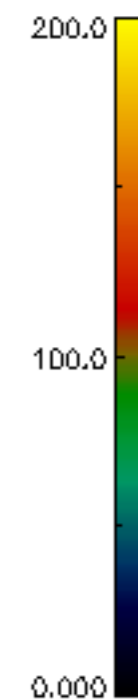
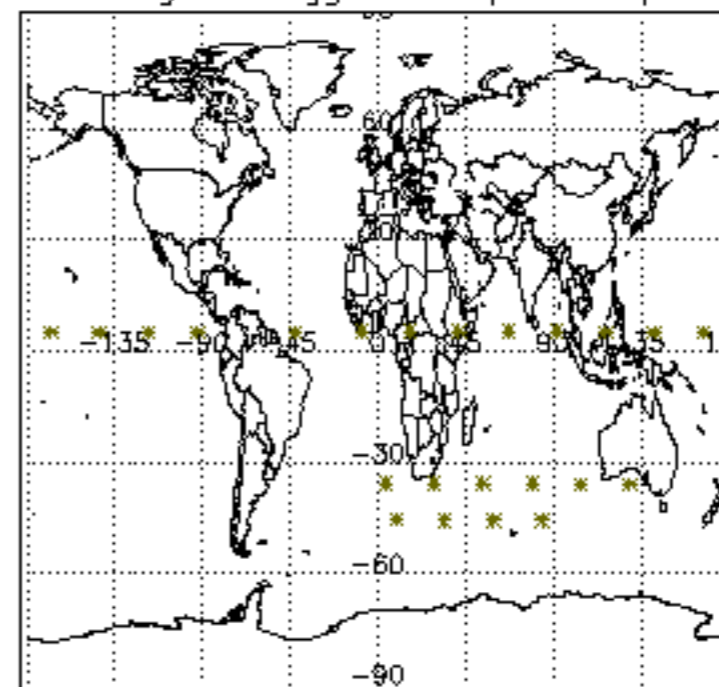




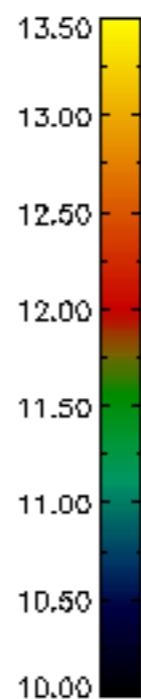
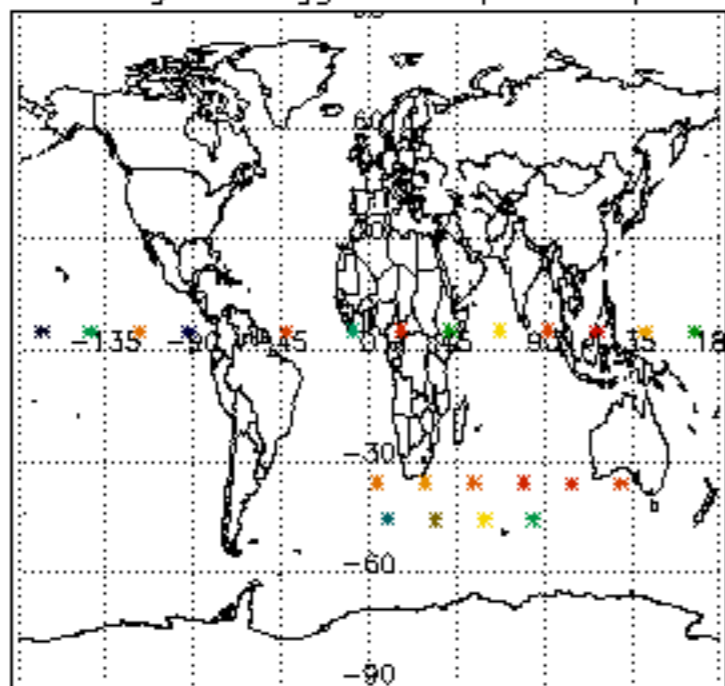
Percentage of flagged data per D3 profile



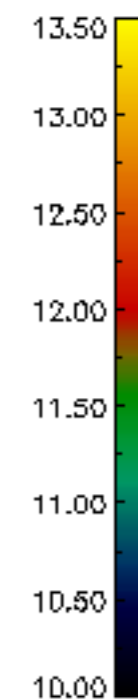
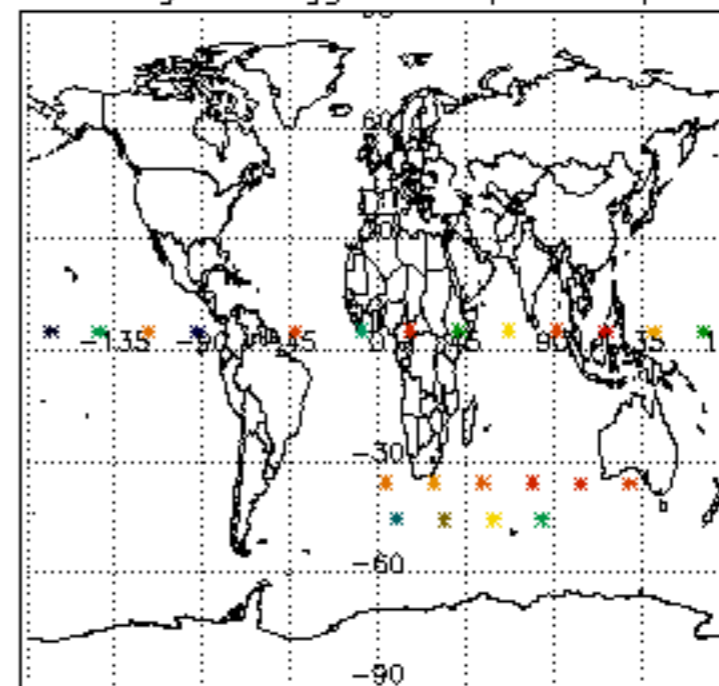
Percentage of flagged data per H2O profile

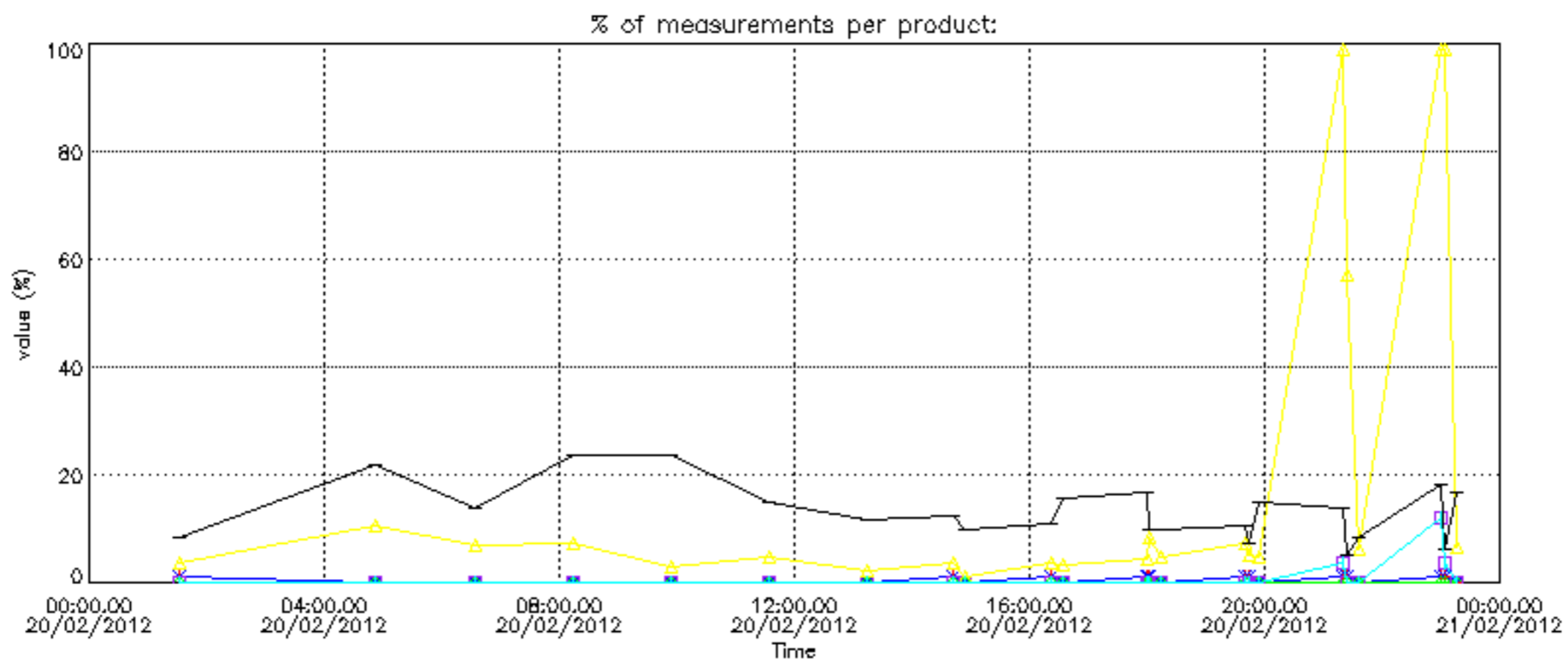


Percentage of flagged data per NO2 profile

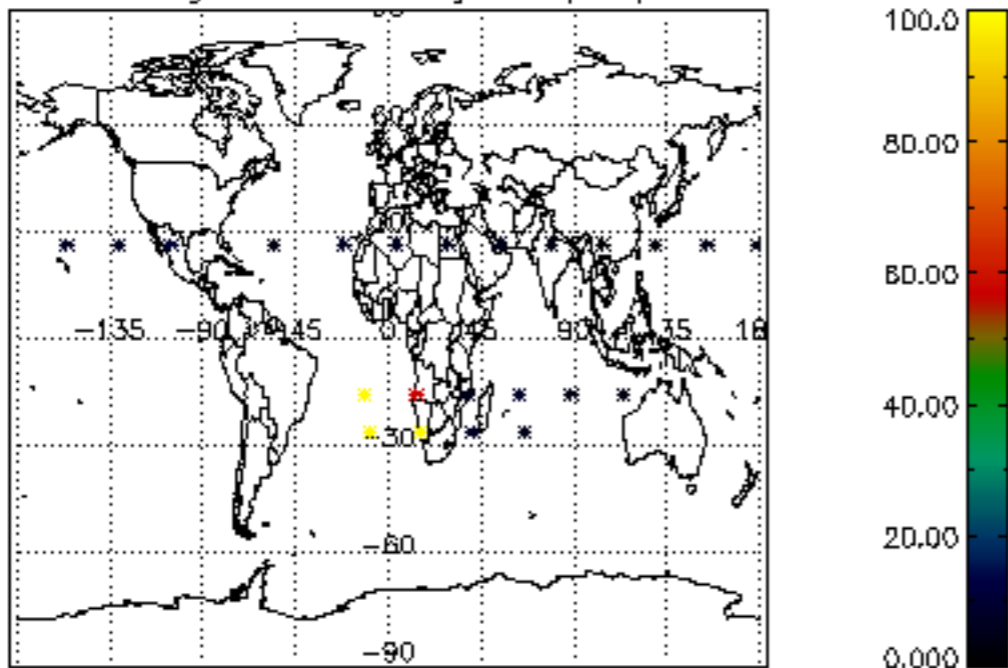


Percentage of flagged data per NO3 profile

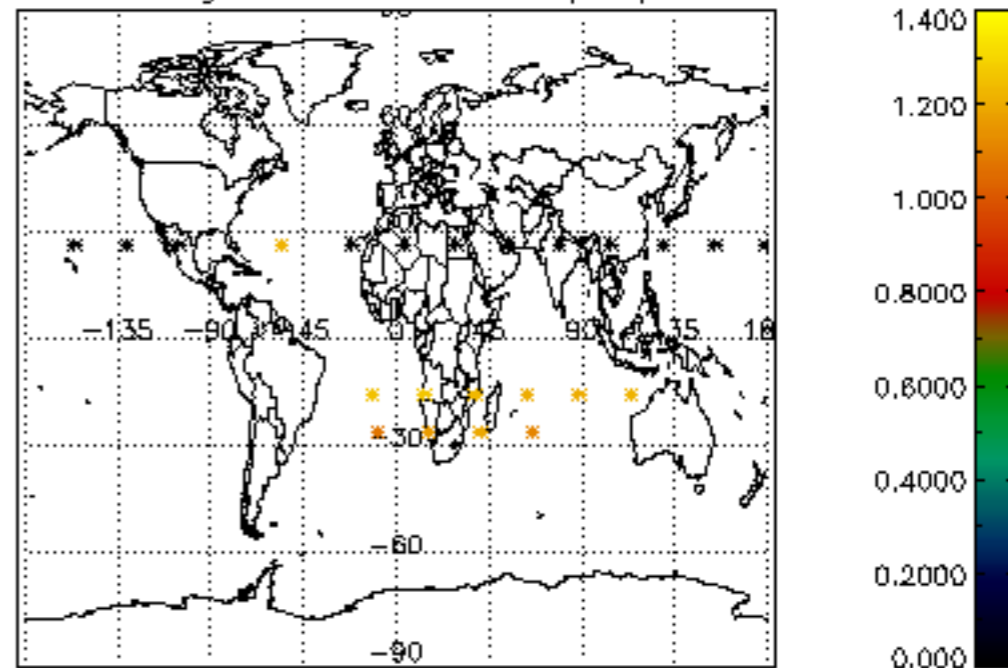




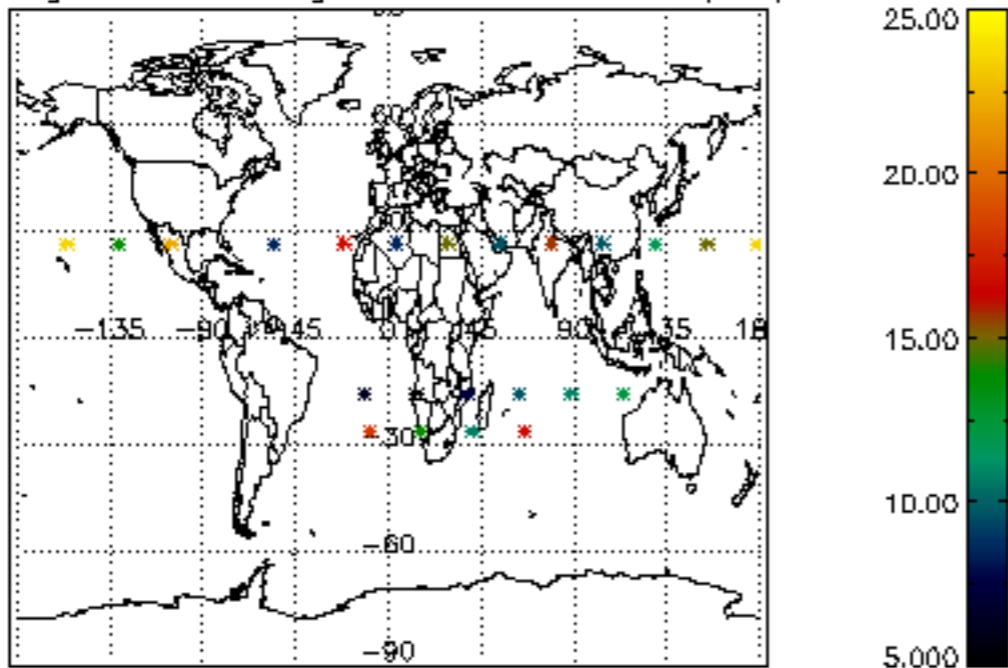
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

