

GOMOS Level 2 Daily Report

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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	18APR2013 14:05:27
Data source version	GOMOS/6.01
Start time of products	27-01-2012 (27JAN2012 00:00:00)
Stop time of products	28-01-2012 (28JAN2012 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	25
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

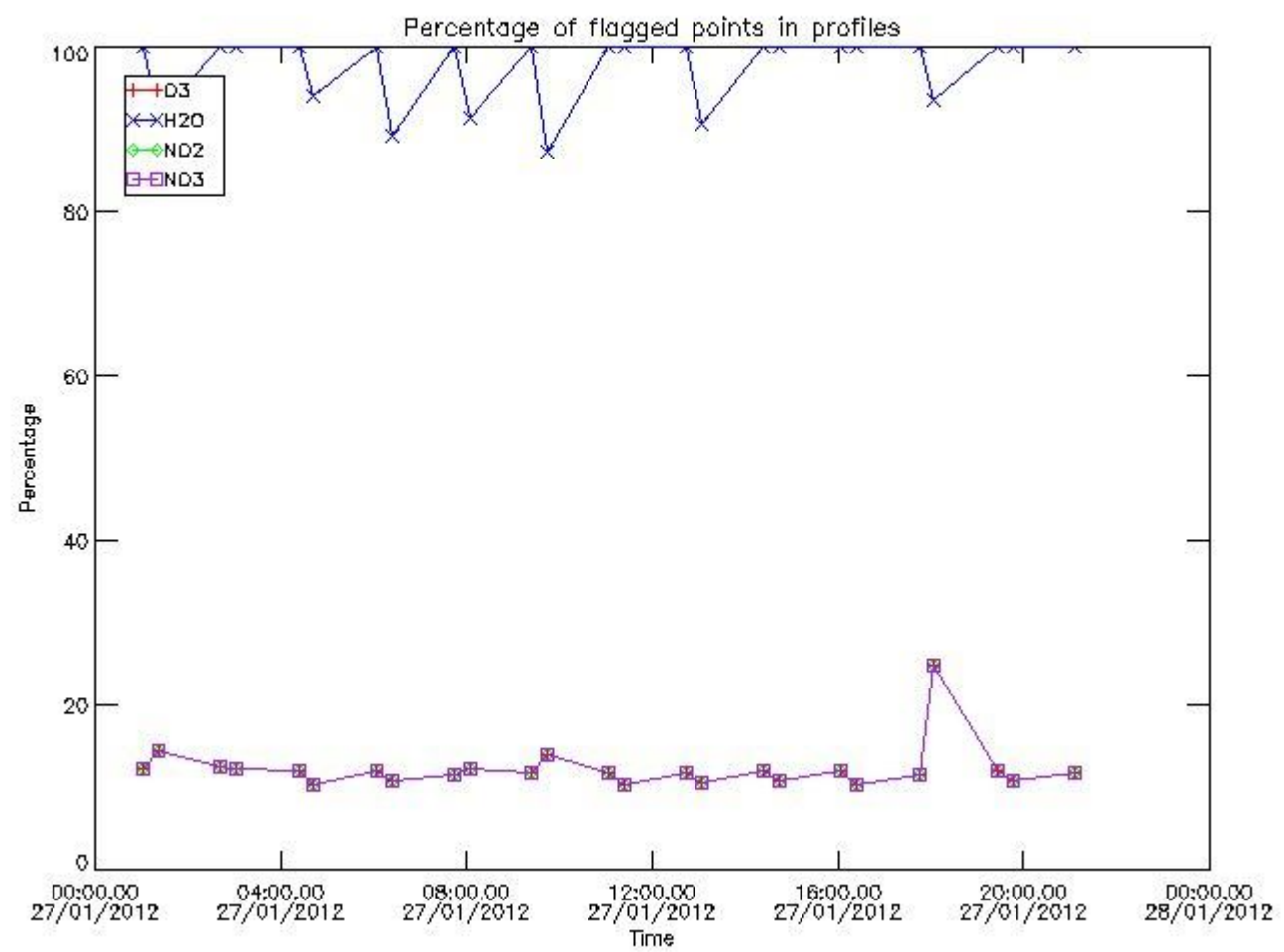
!Warning: No products without errors in BRIGHT limb contitions found

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20120127_010212_000000423111_00088_51826_4927.N1	27-JAN-2012 01:02:12	Dark	41.500	131	Gam Lup	2.8000	26000.	83	51826	No
2	GOM_NL__2PRFIN20120127_012226_000000463111_00089_51827_4937.N1	27-JAN-2012 01:22:26	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	51827	No
3	GOM_NL__2PRFIN20120127_024227_000000413111_00089_51827_4938.N1	27-JAN-2012 02:42:27	Dark	41.000	131	Gam Lup	2.8000	26000.	82	51827	No
4	GOM_NL__2PRFIN20120127_030240_000000463111_00090_51828_4947.N1	27-JAN-2012 03:02:40	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	51828	No
5	GOM_NL__2PRFIN20120127_042242_000000423111_00090_51828_4948.N1	27-JAN-2012 04:22:42	Dark	42.000	131	Gam Lup	2.8000	26000.	84	51828	No
6	GOM_NL__2PRFIN20120127_044254_000000493111_00091_51829_4980.N1	27-JAN-2012 04:42:54	Dark	49.000	65	Lam Vel	2.2040	4400.0	98	51829	No
7	GOM_NL__2PRFIN20120127_060256_000000433111_00091_51829_4981.N1	27-JAN-2012 06:02:56	Dark	42.500	131	Gam Lup	2.8000	26000.	85	51829	No
8	GOM_NL__2PRFIN20120127_062309_000000473111_00092_51830_4984.N1	27-JAN-2012 06:23:09	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	51830	No
9	GOM_NL__2PRFIN20120127_074311_000000443111_00092_51830_4985.N1	27-JAN-2012 07:43:11	Dark	44.000	131	Gam Lup	2.8000	26000.	88	51830	No
10	GOM_NL__2PRFIN20120127_080323_000000463111_00093_51831_5004.N1	27-JAN-2012 08:03:23	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	51831	No
11	GOM_NL__2PRFIN20120127_092326_000000443111_00093_51831_5005.N1	27-JAN-2012 09:23:26	Dark	43.500	131	Gam Lup	2.8000	26000.	87	51831	No
12	GOM_NL__2PRFIN20120127_094337_000000473111_00094_51832_5030.N1	27-JAN-2012 09:43:37	Dark	47.000	65	Lam Vel	2.2040	4400.0	94	51832	No
13	GOM_NL__2PRFIN20120127_110340_000000443111_00094_51832_5031.N1	27-JAN-2012 11:03:40	Dark	43.500	131	Gam Lup	2.8000	26000.	87	51832	No
14	GOM_NL__2PRFIN20120127_112352_000000493111_00095_51833_5080.N1	27-JAN-2012 11:23:52	Dark	48.500	65	Lam Vel	2.2040	4400.0	97	51833	No
15	GOM_NL__2PRFIN20120127_124355_000000443111_00095_51833_5081.N1	27-JAN-2012 12:43:55	Dark	43.500	131	Gam Lup	2.8000	26000.	87	51833	No
16	GOM_NL__2PRFIN20120127_130406_000000483111_00096_51834_5129.N1	27-JAN-2012 13:04:06	Dark	47.500	65	Lam Vel	2.2040	4400.0	95	51834	No
17	GOM_NL__2PRFIN20120127_142410_000000423111_00096_51834_5130.N1	27-JAN-2012 14:24:10	Dark	42.000	131	Gam Lup	2.8000	26000.	84	51834	No
18	GOM_NL__2PRFIN20120127_144420_000000473111_00097_51835_5153.N1	27-JAN-2012 14:44:20	Dark	47.000	65	Lam Vel	2.2040	4400.0	94	51835	No
19	GOM_NL__2PRFIN20120127_160424_000000433111_00097_51835_5154.N1	27-JAN-2012 16:04:24	Dark	42.500	131	Gam Lup	2.8000	26000.	85	51835	No
20	GOM_NL__2PRFIN20120127_162435_000000493111_00098_51836_6575.N1	27-JAN-2012 16:24:35	Dark	48.500	65	Lam Vel	2.2040	4400.0	97	51836	No
21	GOM_NL__2PRFIN20120127_174439_000000443111_00098_51836_6576.N1	27-JAN-2012 17:44:39	Dark	44.000	131	Gam Lup	2.8000	26000.	88	51836	No
22	GOM_NL__2PRFIN20120127_180449_000000473111_00099_51837_6372.N1	27-JAN-2012 18:04:49	Dark	47.000	65	Lam Vel	2.2040	4400.0	94	51837	No
23	GOM_NL__2PRFIN20120127_192454_000000423111_00099_51837_6373.N1	27-JAN-2012 19:24:54	Dark	41.500	131	Gam Lup	2.8000	26000.	83	51837	No
24	GOM_NL__2PRFIN20120127_194503_000000473111_00100_51838_6116.N1	27-JAN-2012 19:45:03	Dark	47.000	65	Lam Vel	2.2040	4400.0	94	51838	No
25	GOM_NL__2PRFIN20120127_210508_000000433111_00100_51838_6117.N1	27-JAN-2012 21:05:08	Dark	42.500	131	Gam Lup	2.8000	26000.	85	51838	No

3. Quality information per product

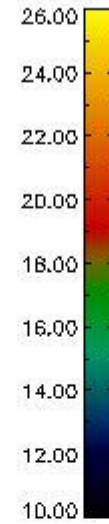
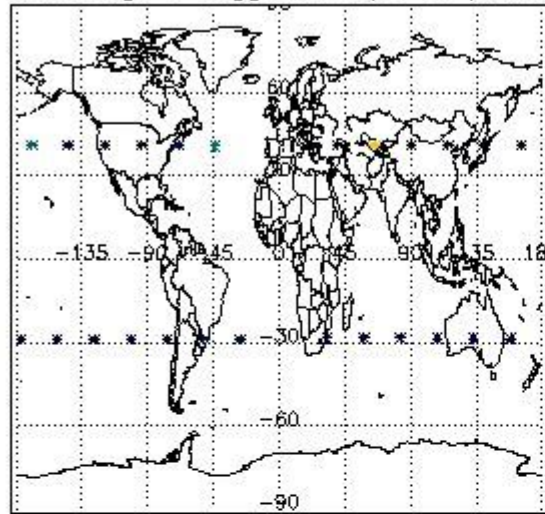
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

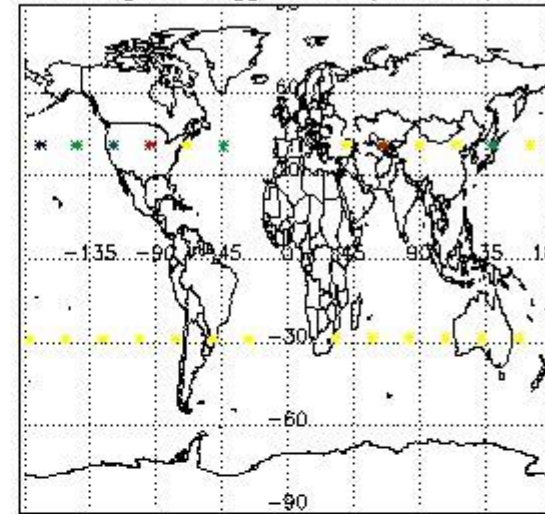


3.2 Plot quality information per product (world map)

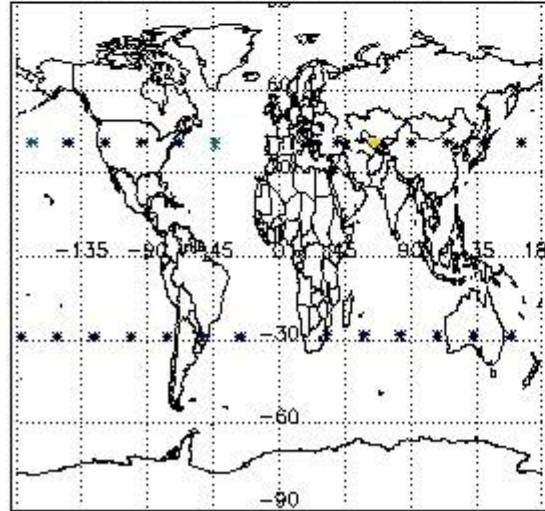
Percentage of flagged data per O3 profile



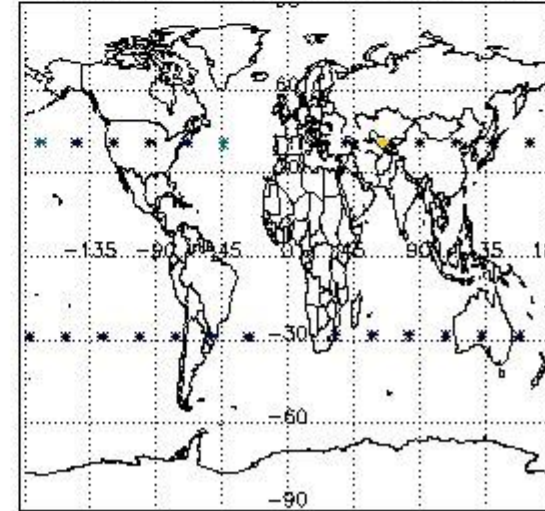
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

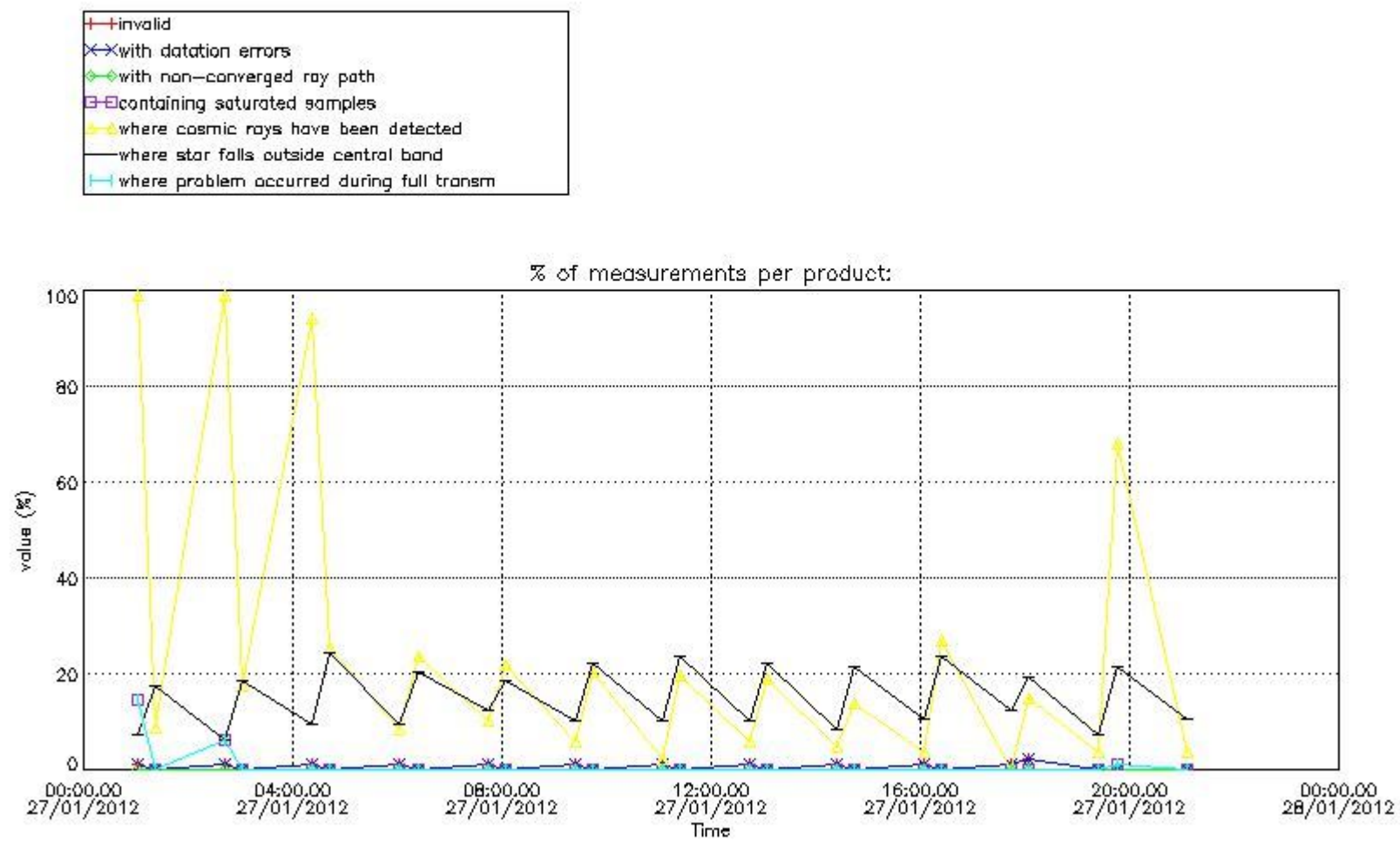


4. Level 1 quality information per product

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

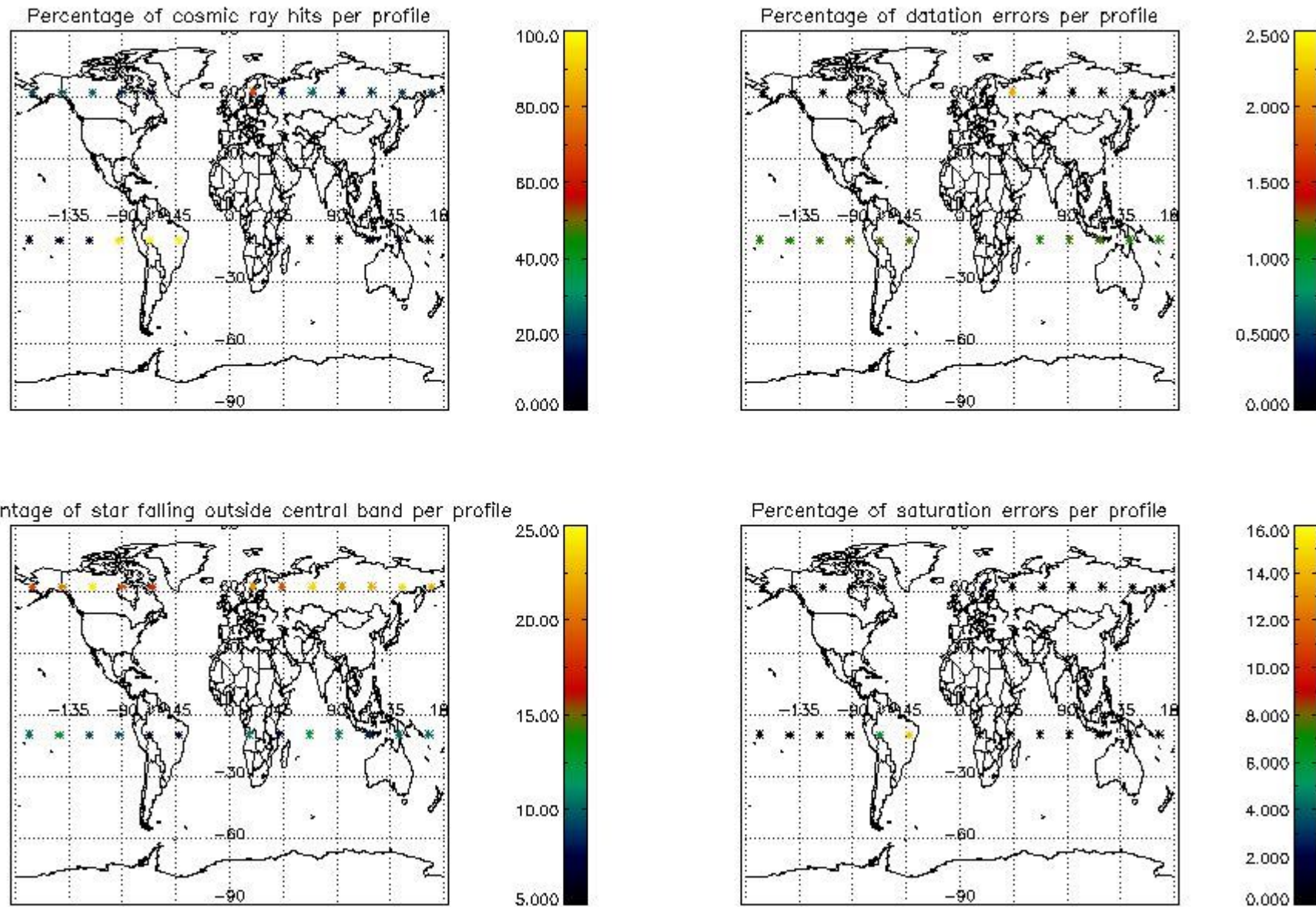


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

!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:

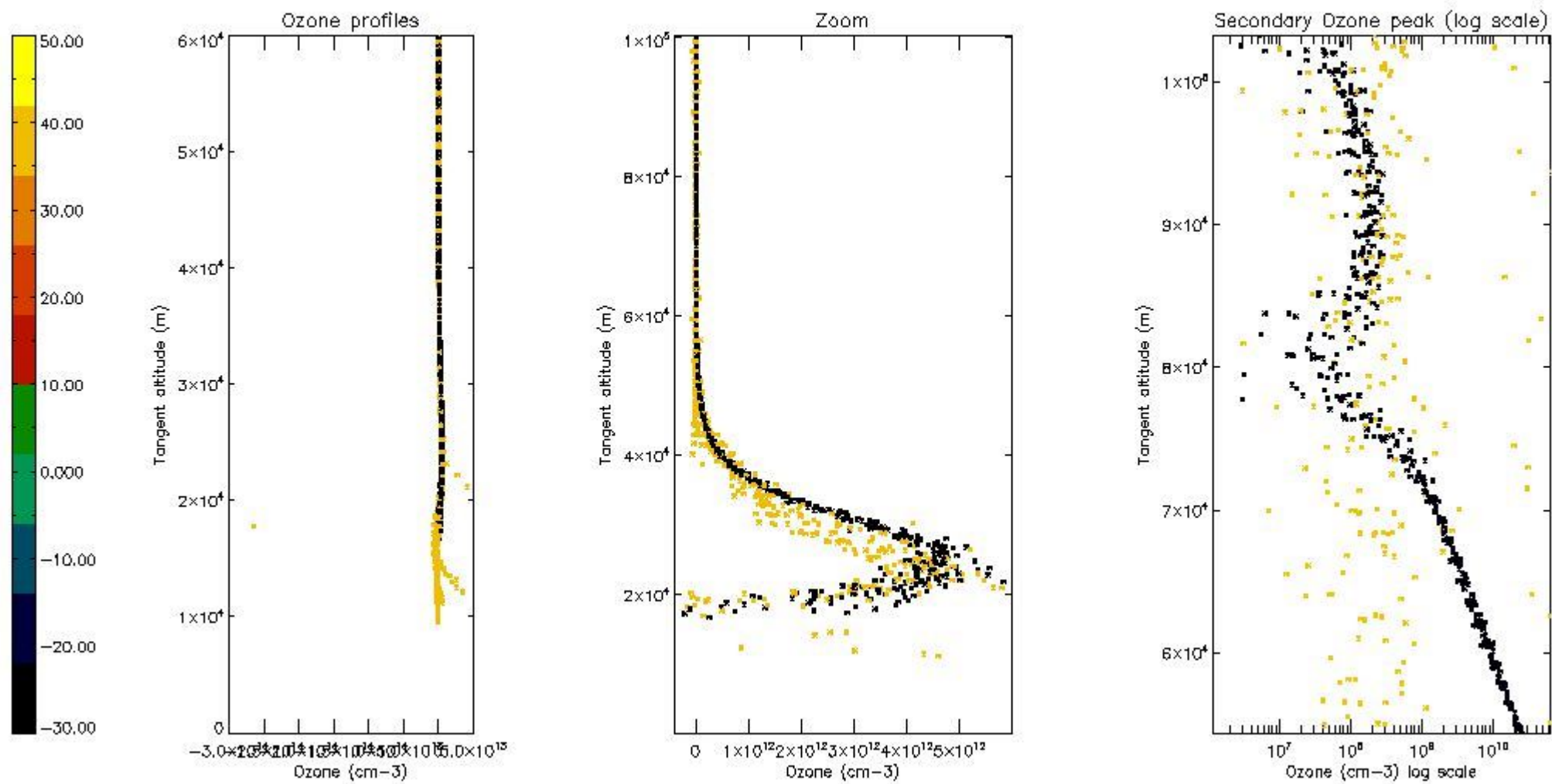
- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

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	43
STD < 10	30
STD < 5	19

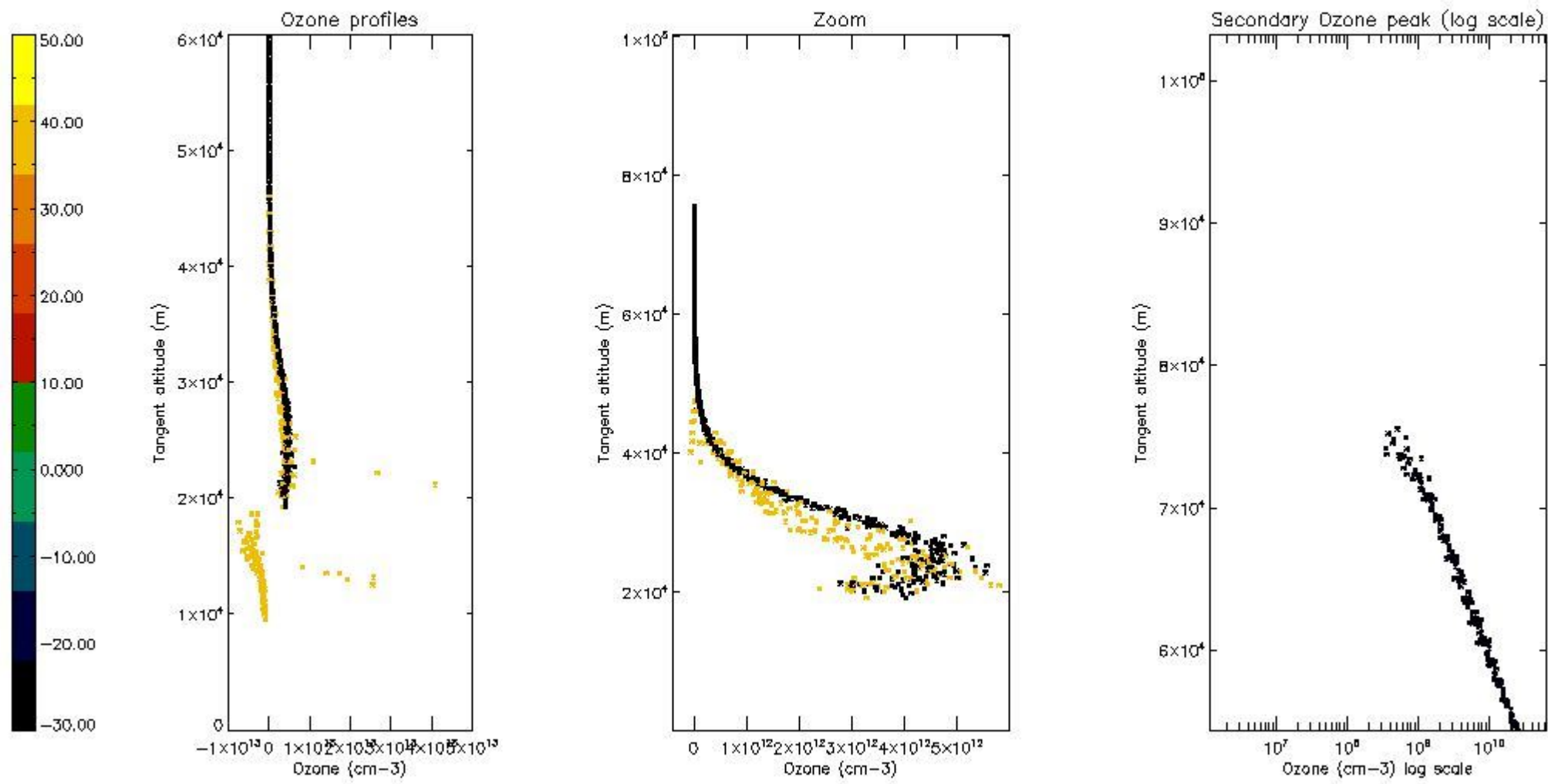
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



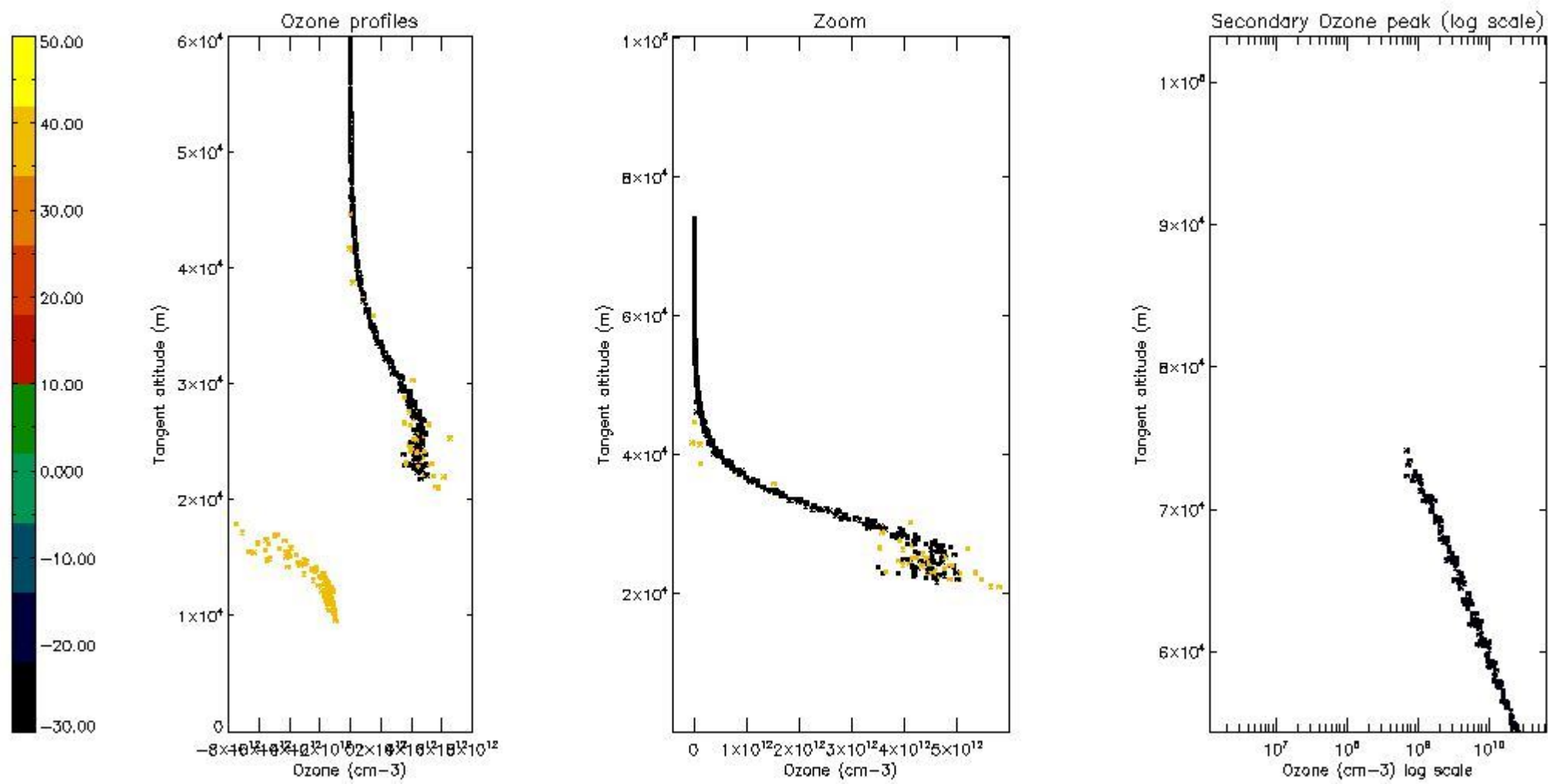
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



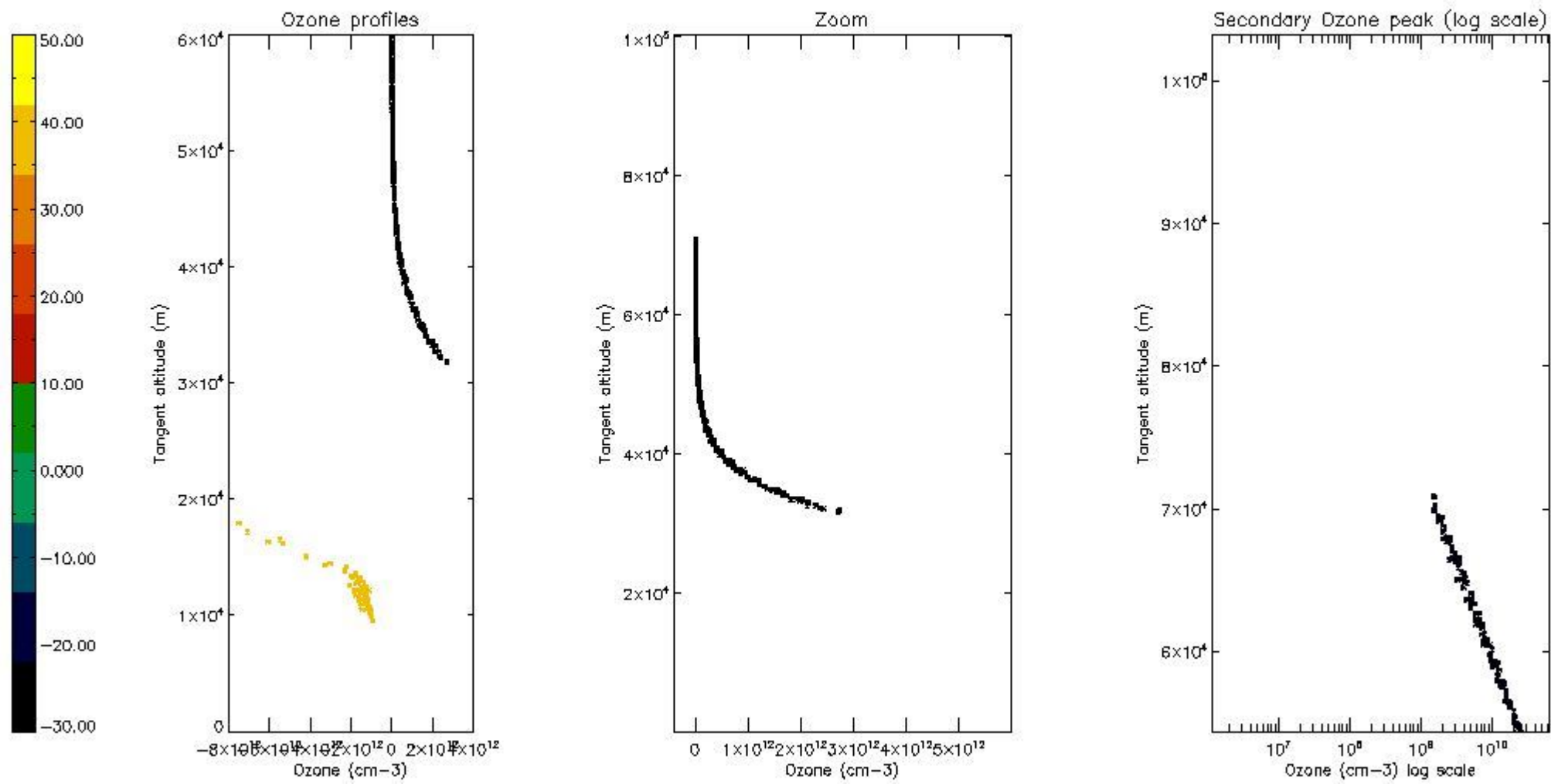
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



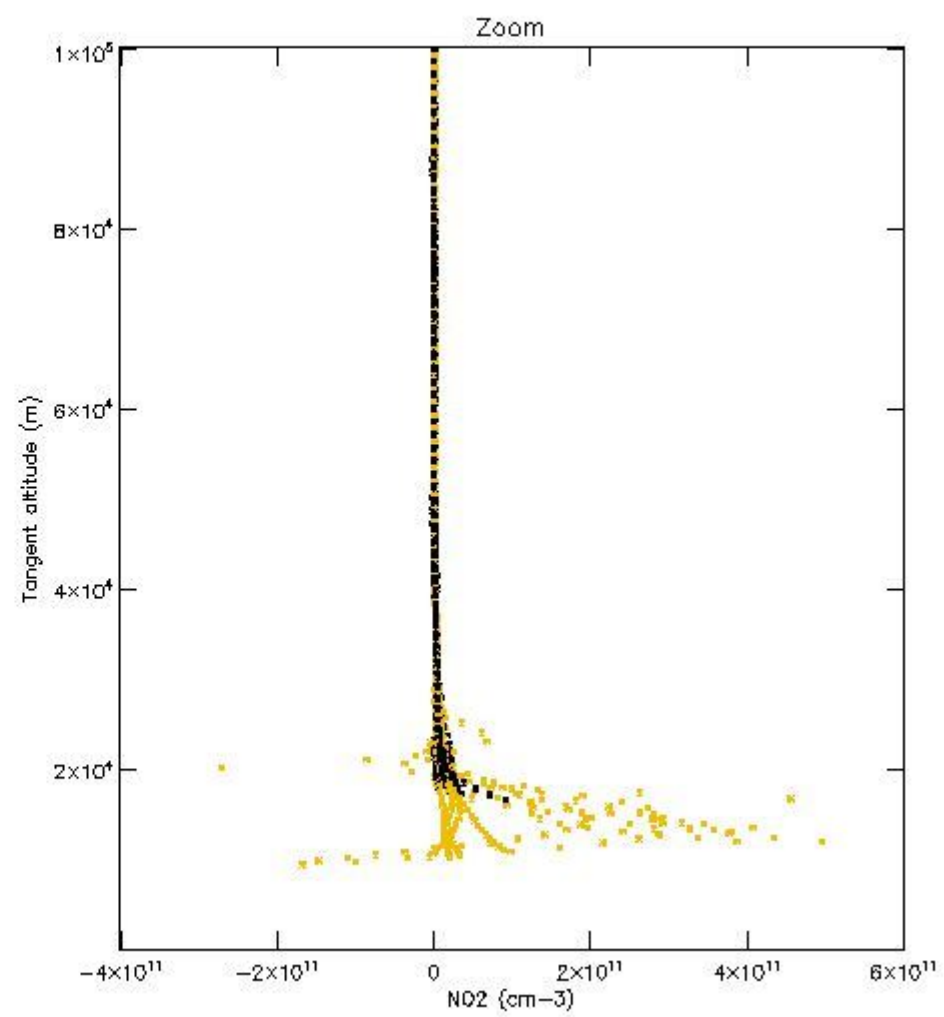
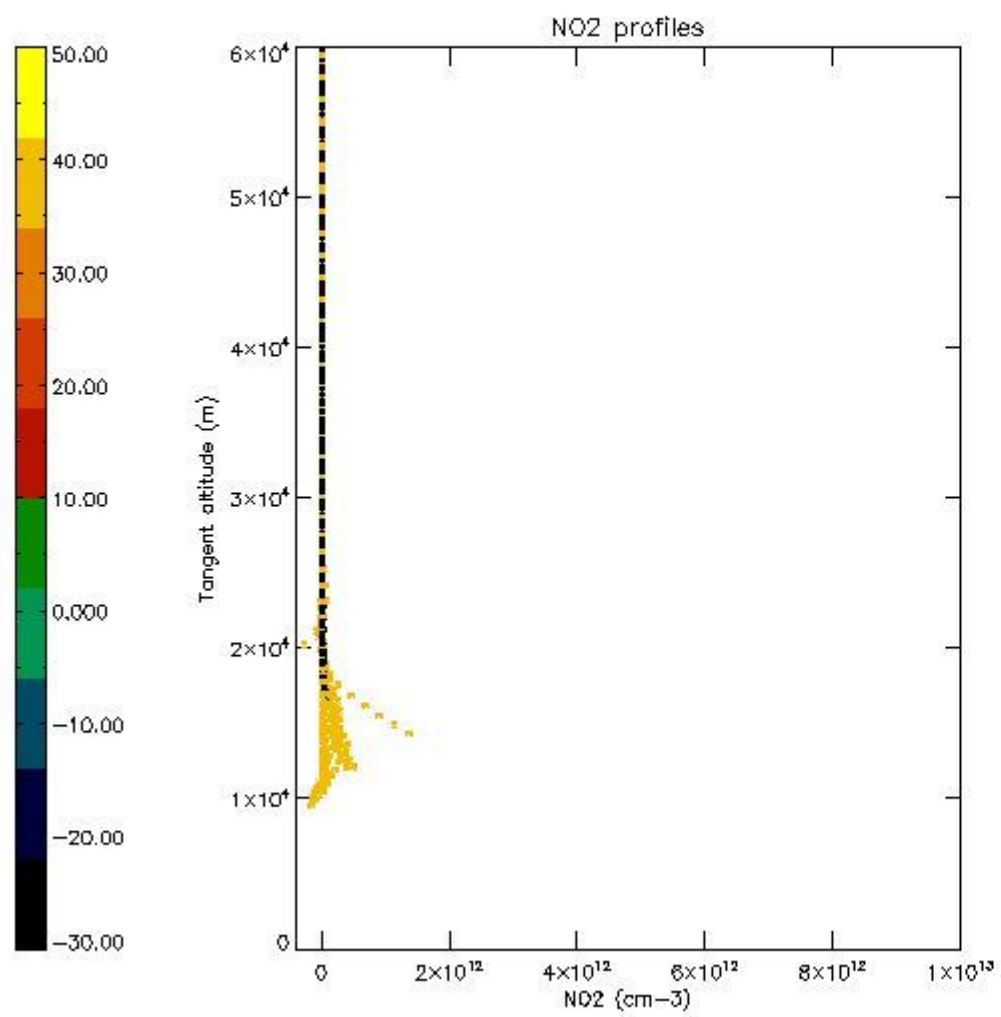
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



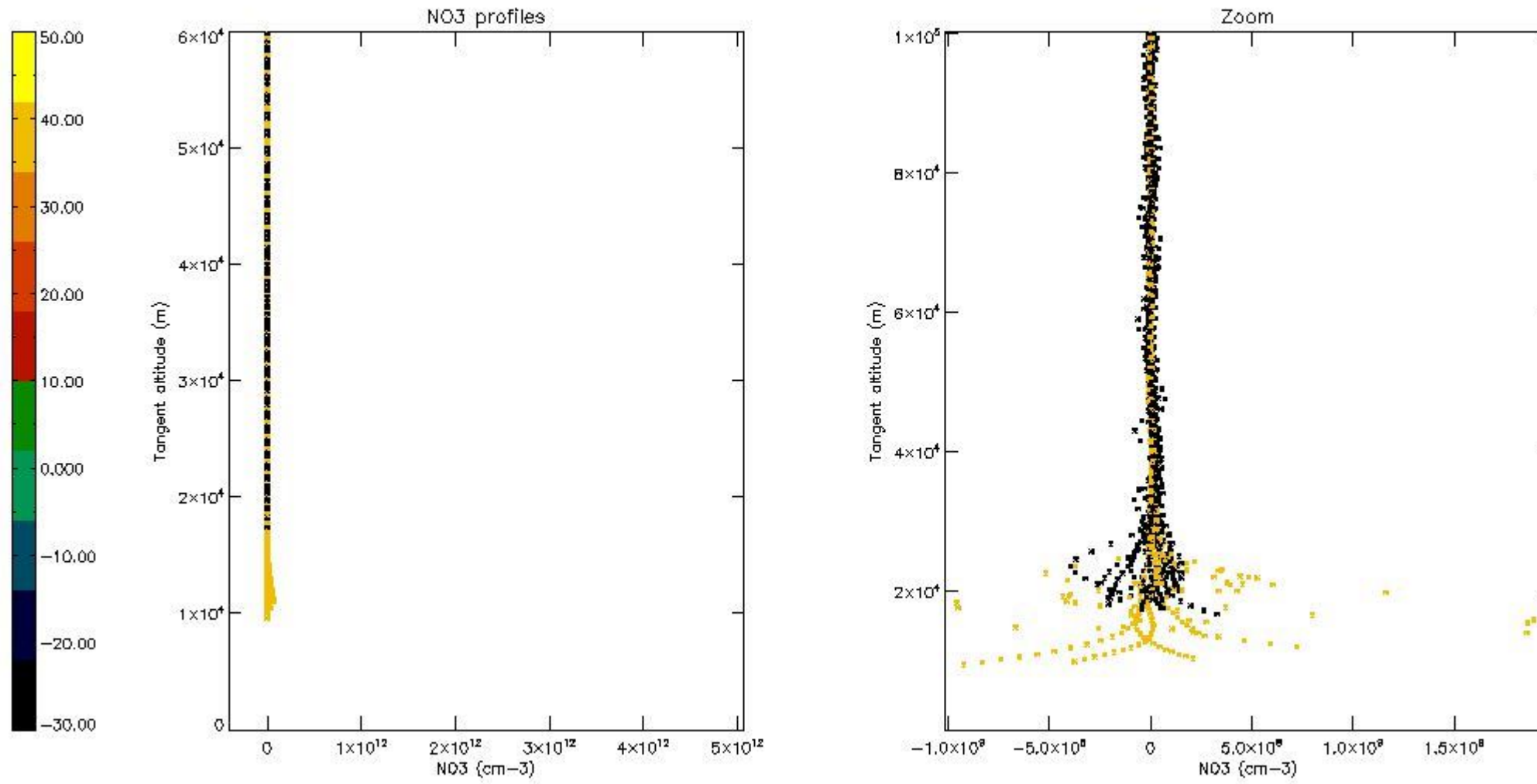
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	27-JAN-2012 01:02:12
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	27-JAN-2012 01:02:12
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	27-JAN-2012 01:02:12

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[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](#)

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[5. Ozone profiles based on quality statistics and other trace gas profiles](#)

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[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 \(dark without errors\)](#)

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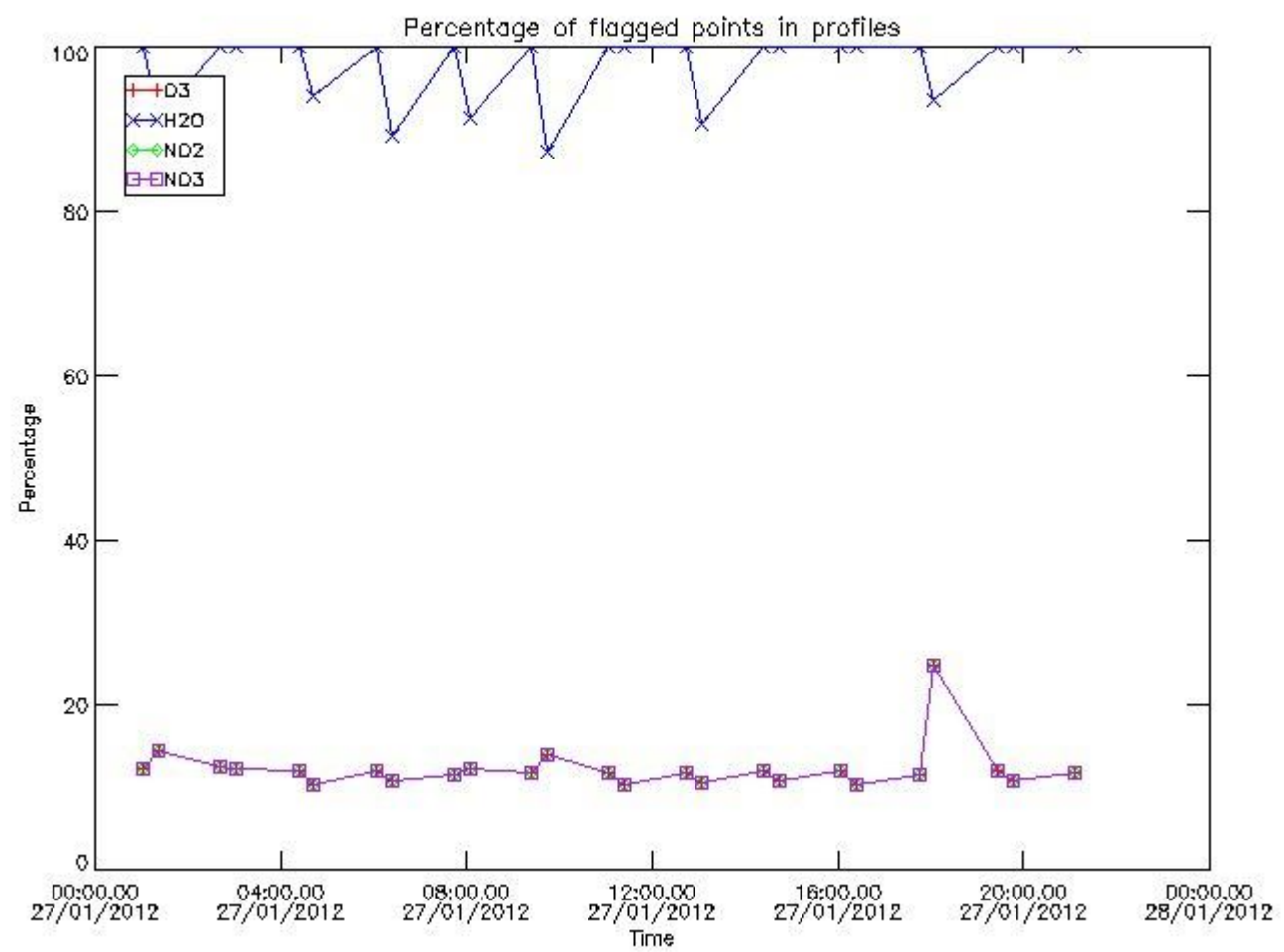
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2	GOM_NL__2PRFIN20120127_012226_000000463111_00089_51827_4937.N1	27-JAN-2012 01:22:26	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	51827	No
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13	GOM_NL__2PRFIN20120127_110340_000000443111_00094_51832_5031.N1	27-JAN-2012 11:03:40	Dark	43.500	131	Gam Lup	2.8000	26000.	87	51832	No
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18	GOM_NL__2PRFIN20120127_144420_000000473111_00097_51835_5153.N1	27-JAN-2012 14:44:20	Dark	47.000	65	Lam Vel	2.2040	4400.0	94	51835	No
19	GOM_NL__2PRFIN20120127_160424_000000433111_00097_51835_5154.N1	27-JAN-2012 16:04:24	Dark	42.500	131	Gam Lup	2.8000	26000.	85	51835	No
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22	GOM_NL__2PRFIN20120127_180449_000000473111_00099_51837_6372.N1	27-JAN-2012 18:04:49	Dark	47.000	65	Lam Vel	2.2040	4400.0	94	51837	No
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3. Quality information per product

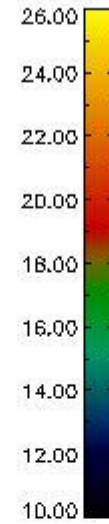
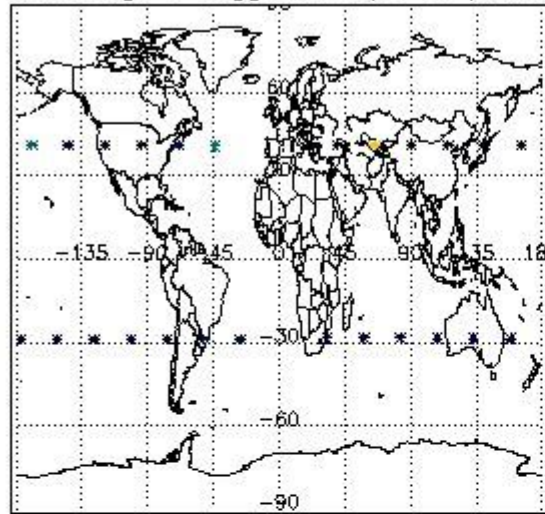
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

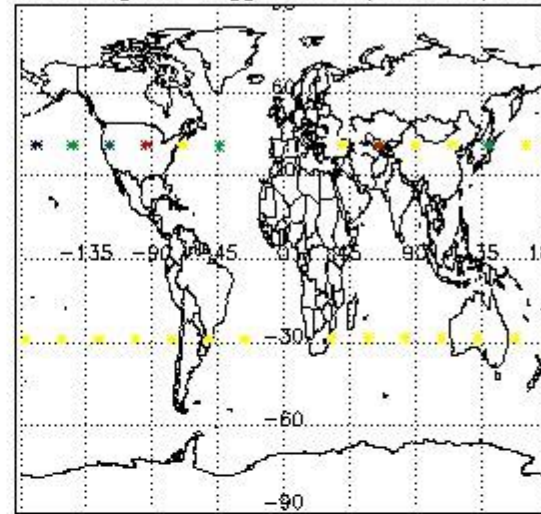


3.2 Plot quality information per product (world map)

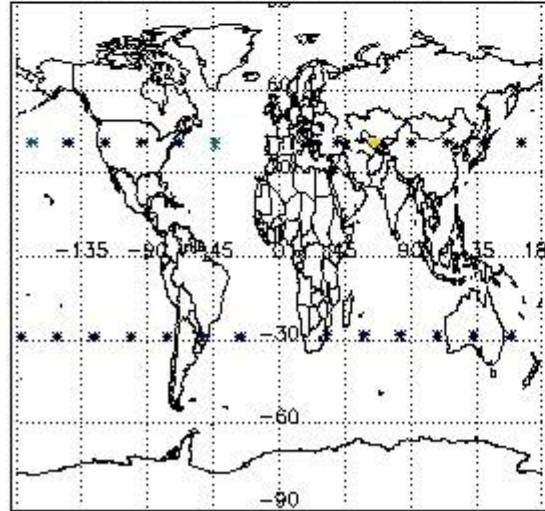
Percentage of flagged data per O3 profile



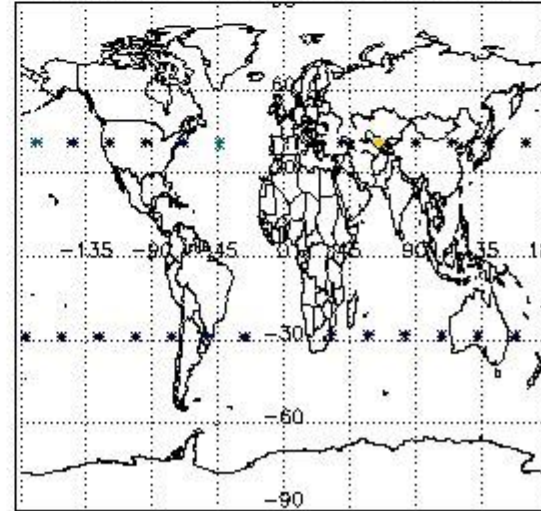
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

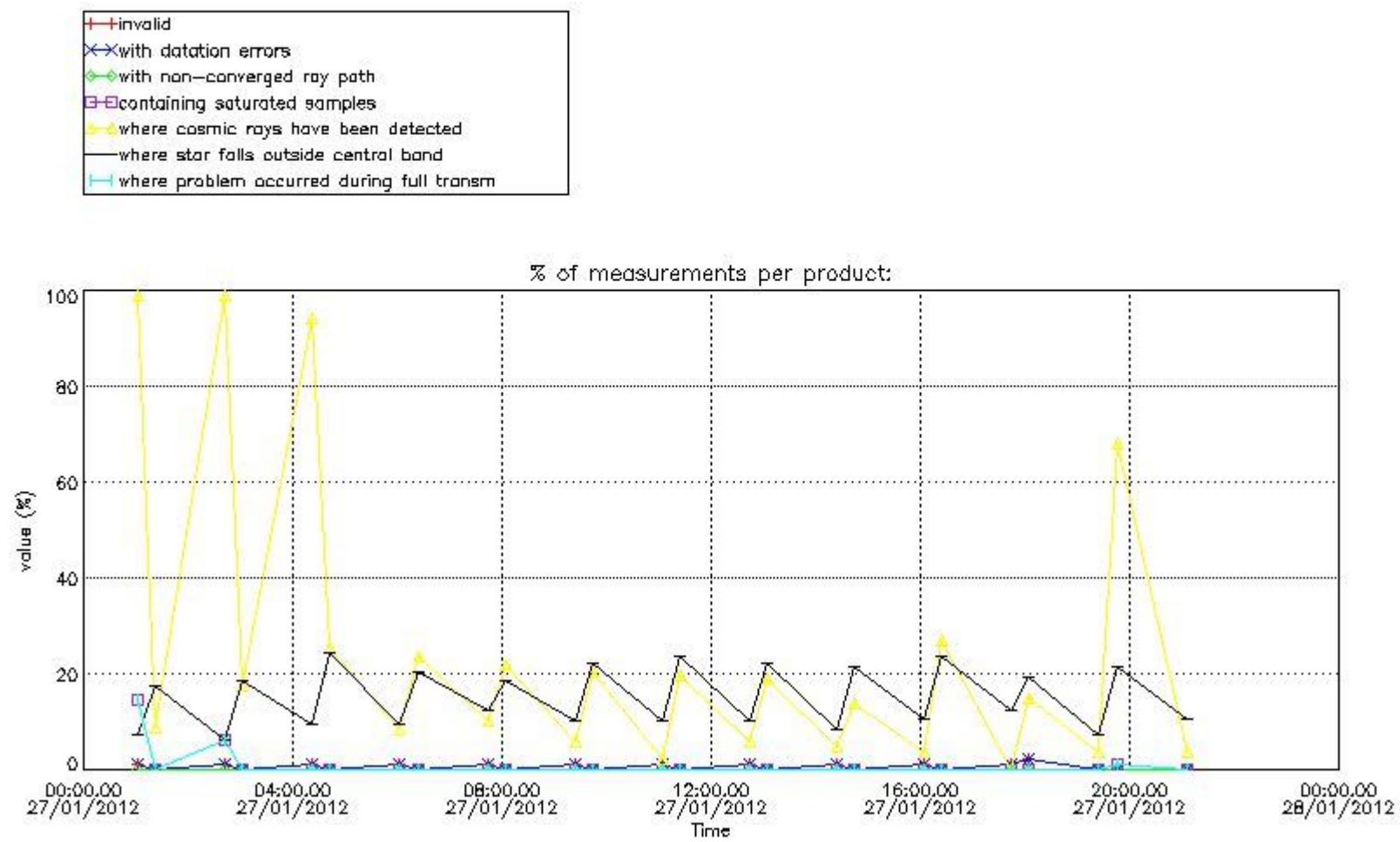


4. Level 1 quality information per product

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

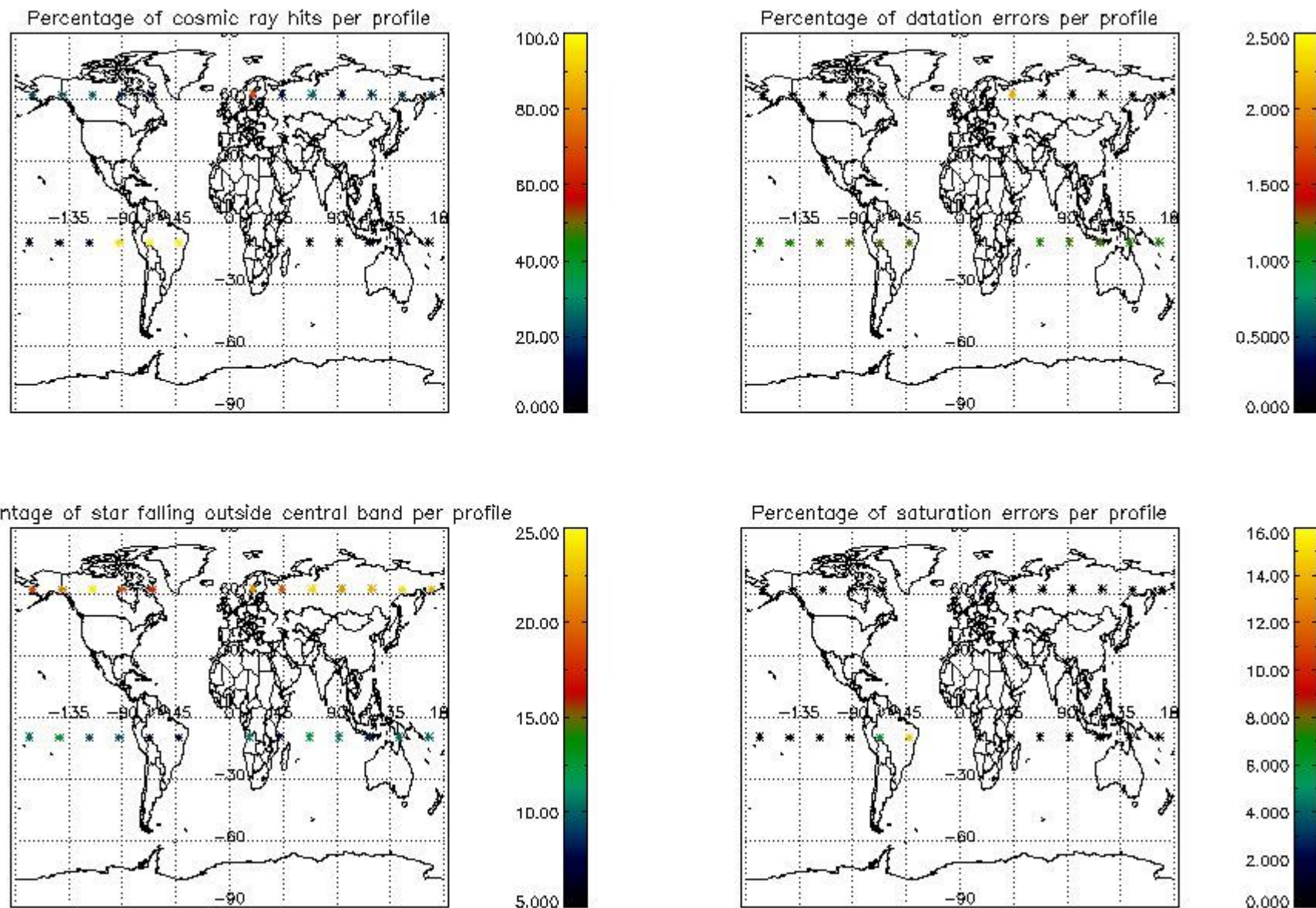


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

!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:

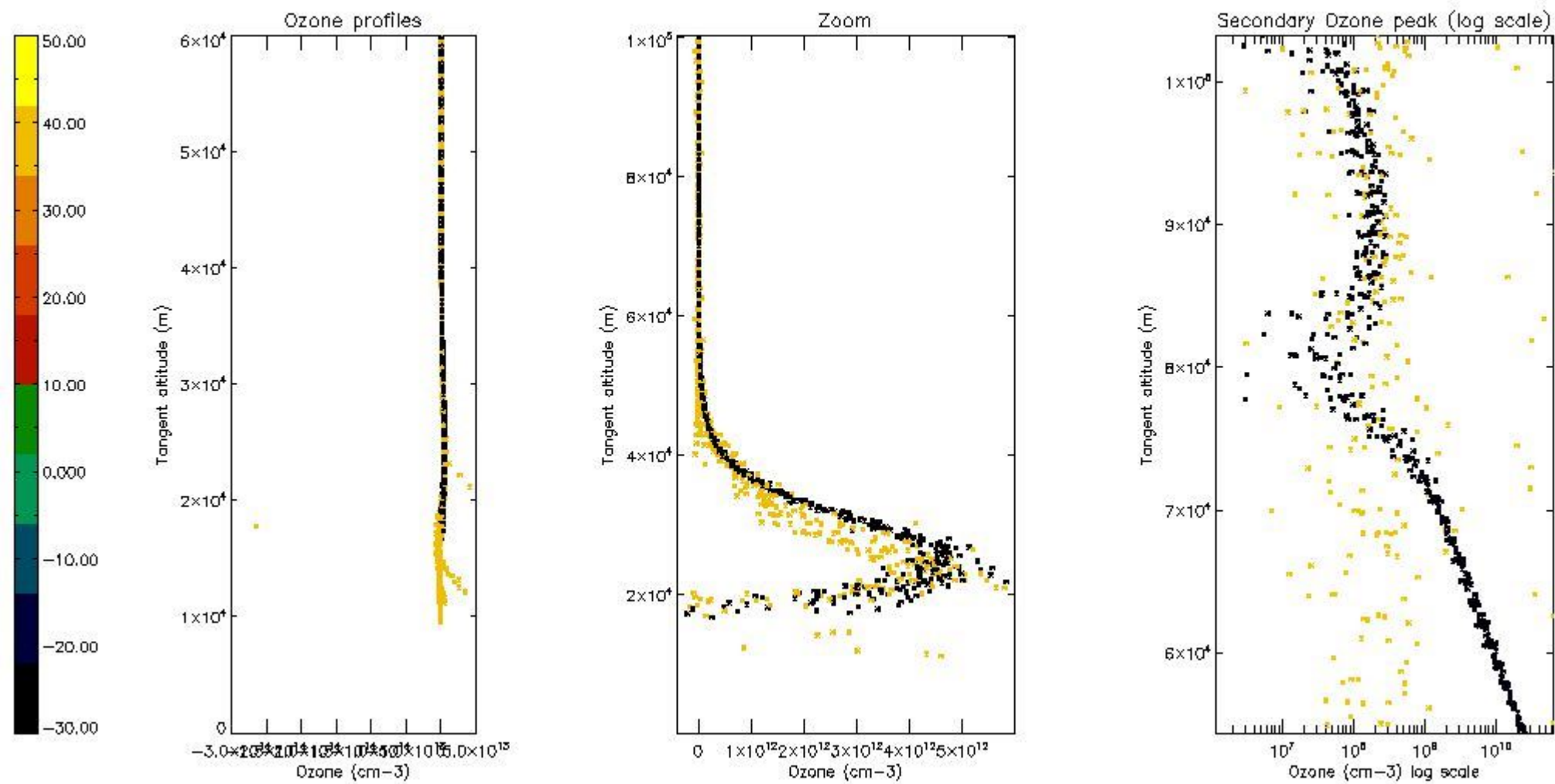
- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

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	43
STD < 10	30
STD < 5	19

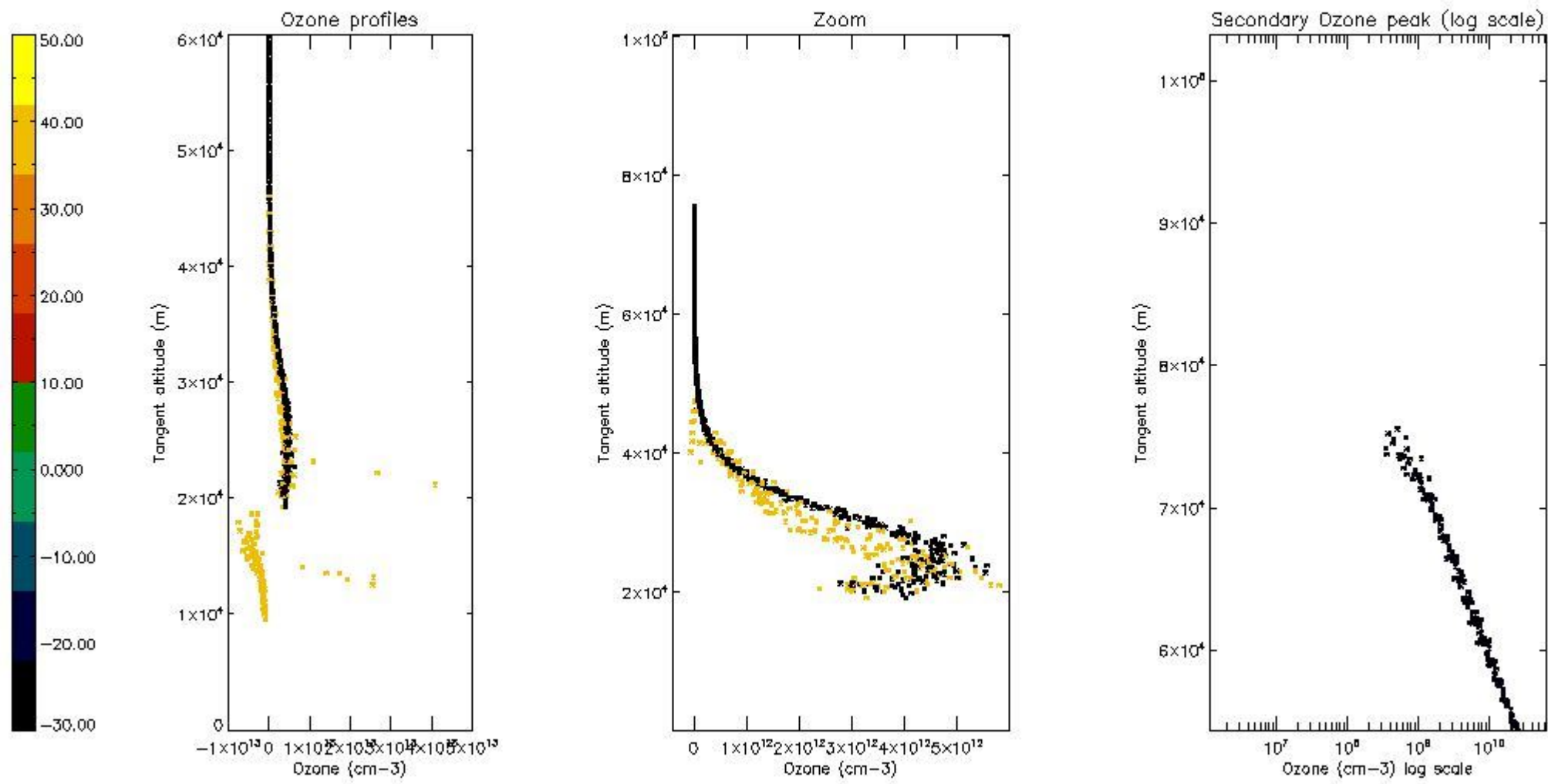
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



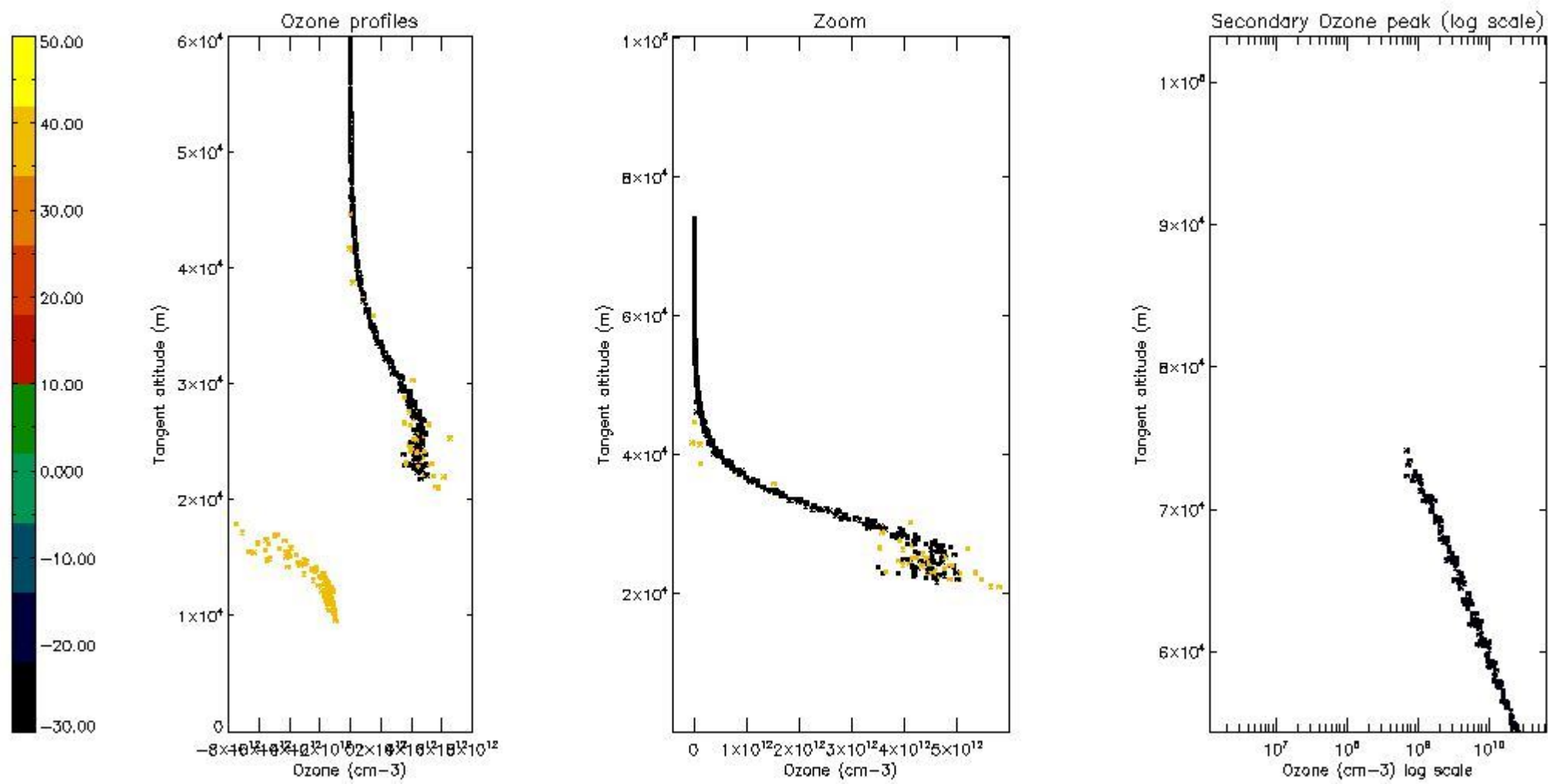
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



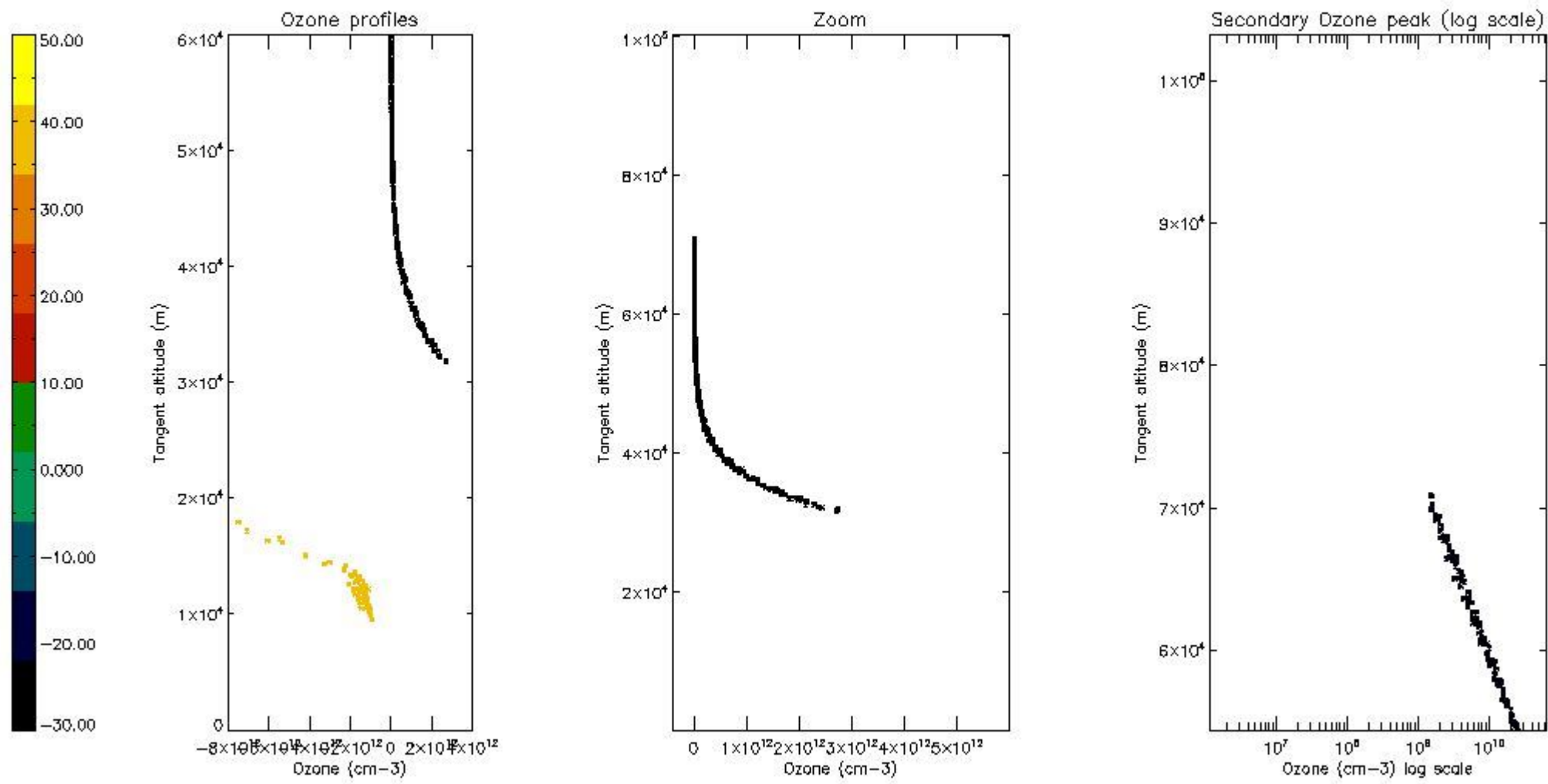
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



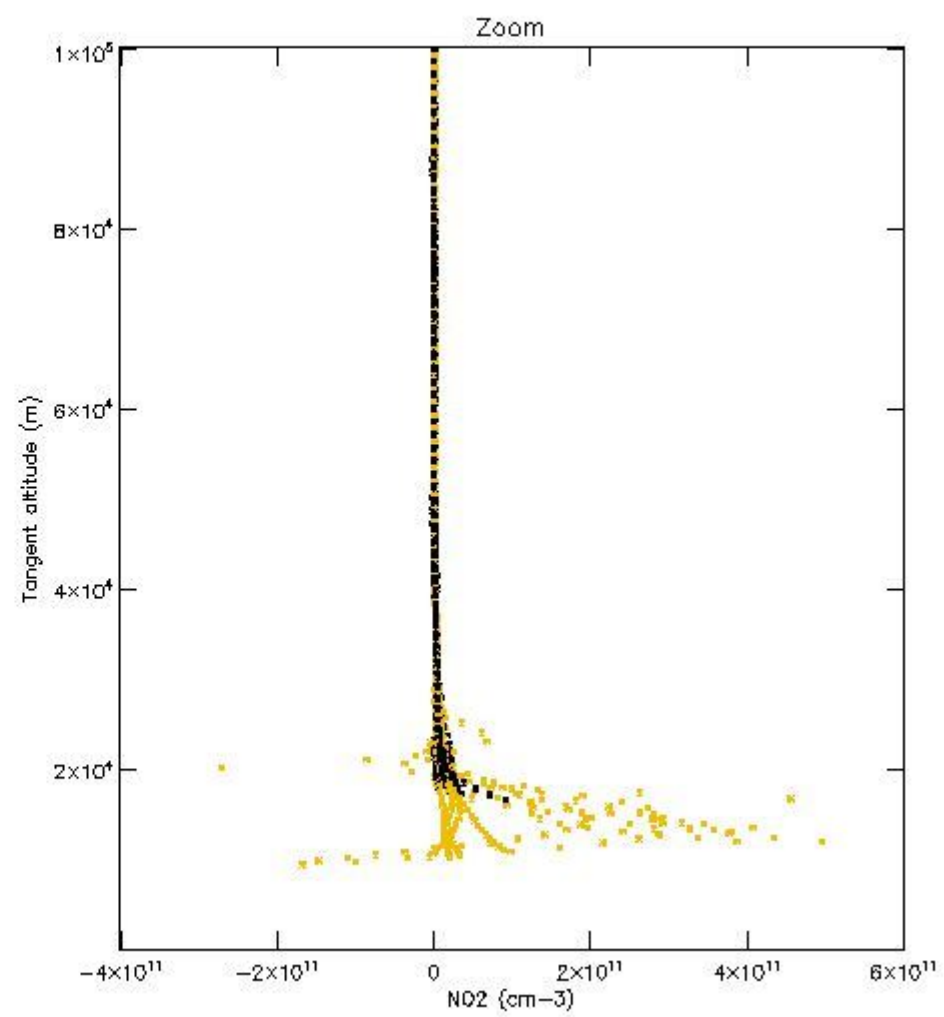
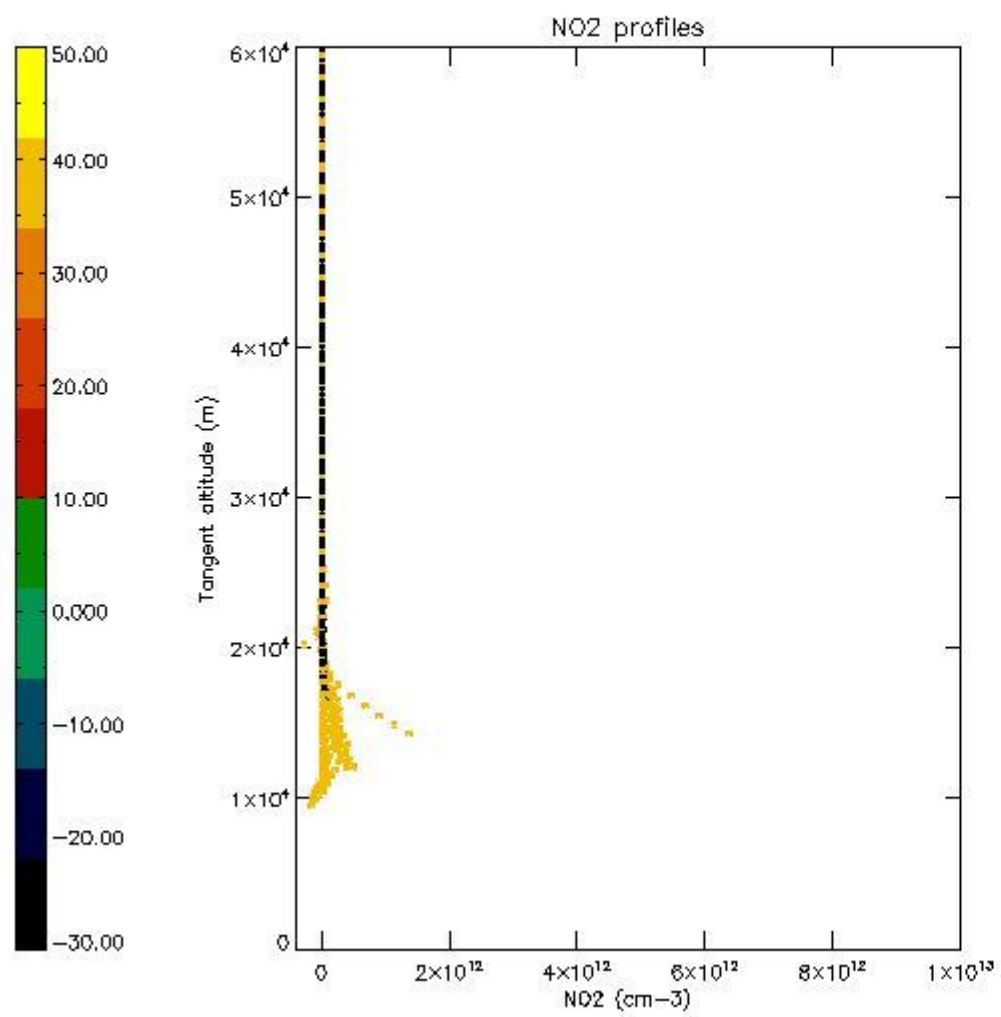
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



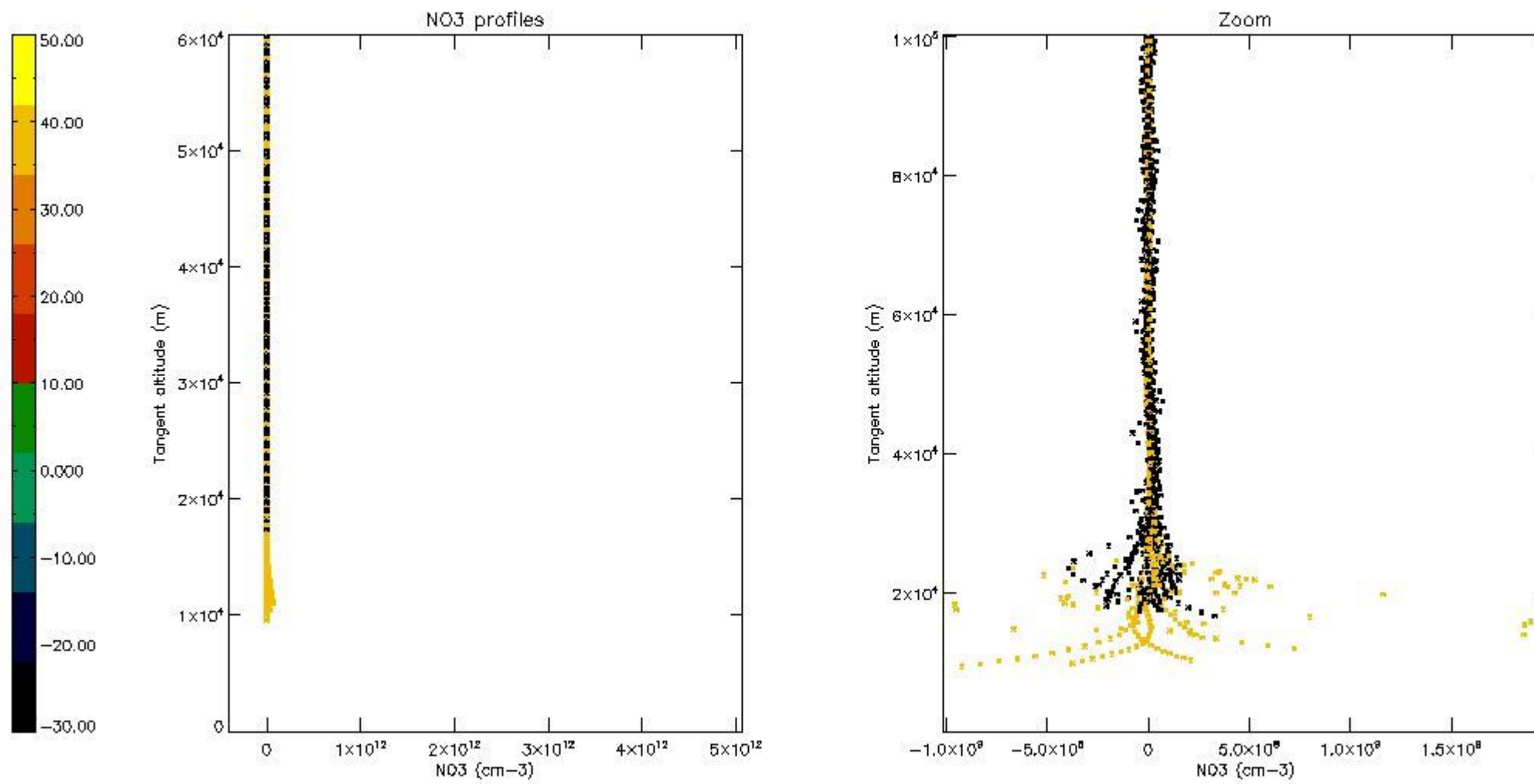
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

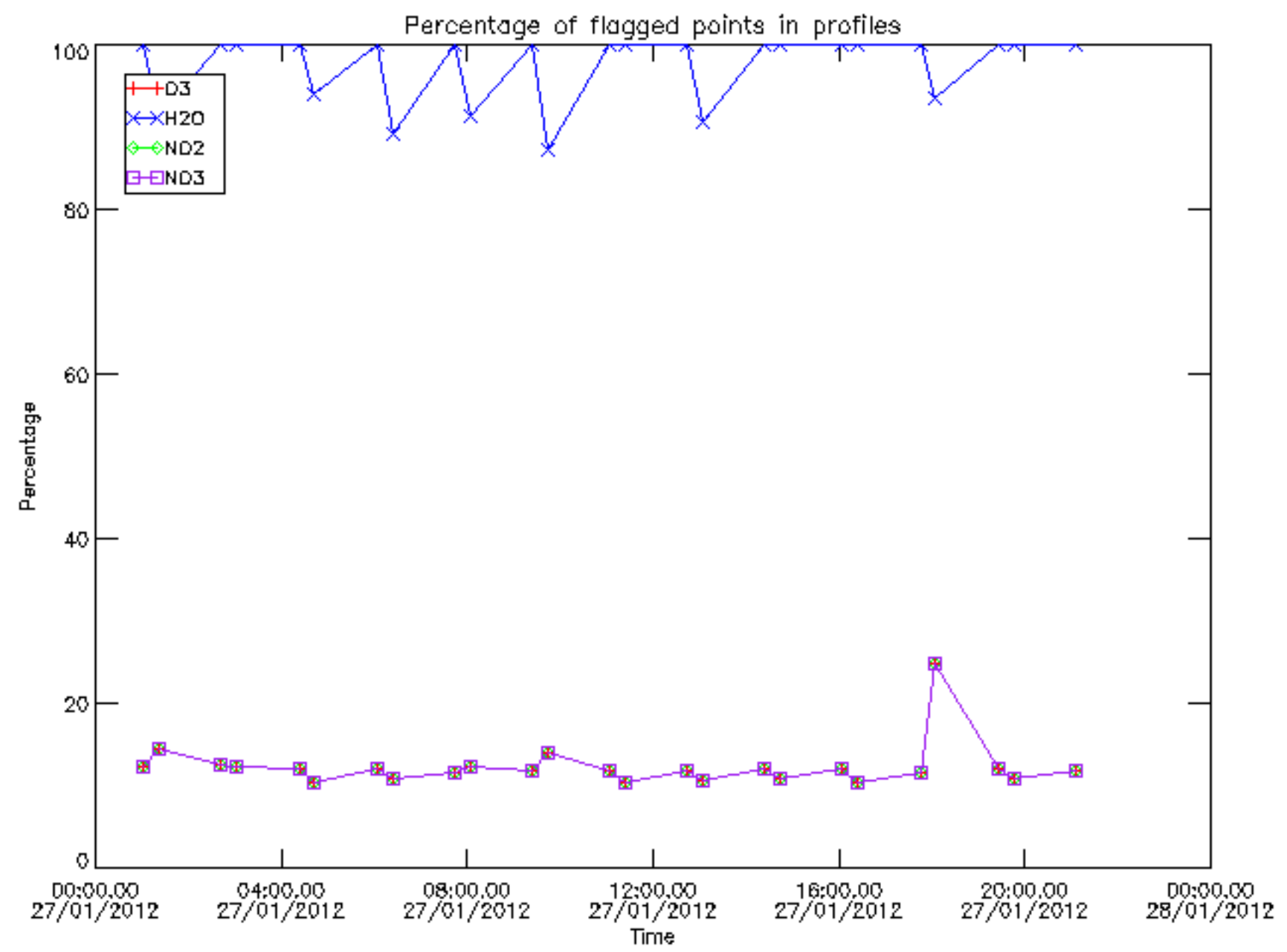
The colorbar represents the latitude.



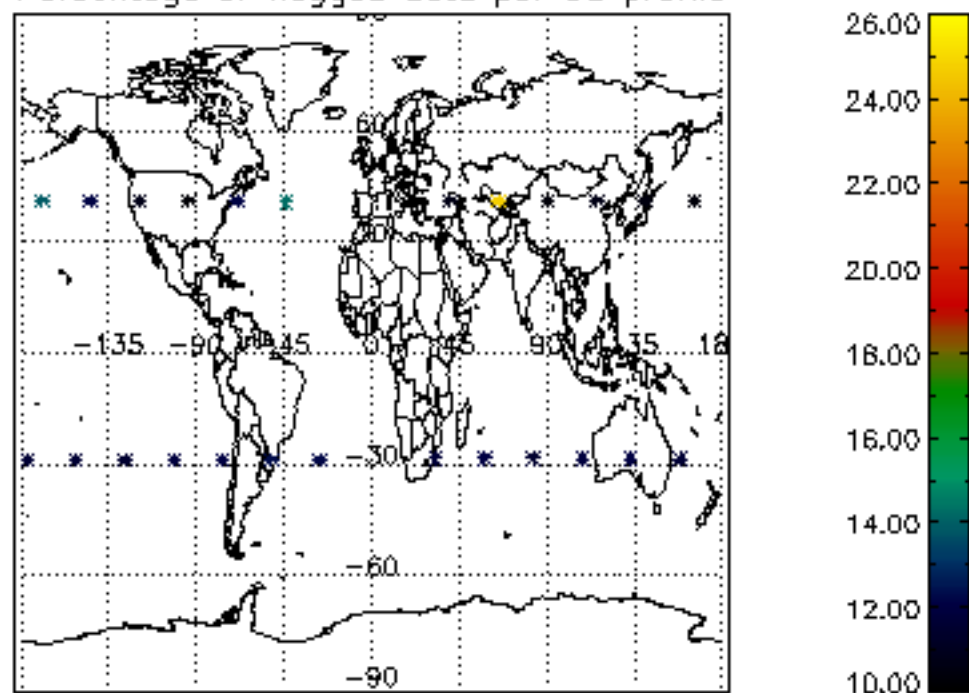
6. Auxiliary Data Files used for the production reported in section 2

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.

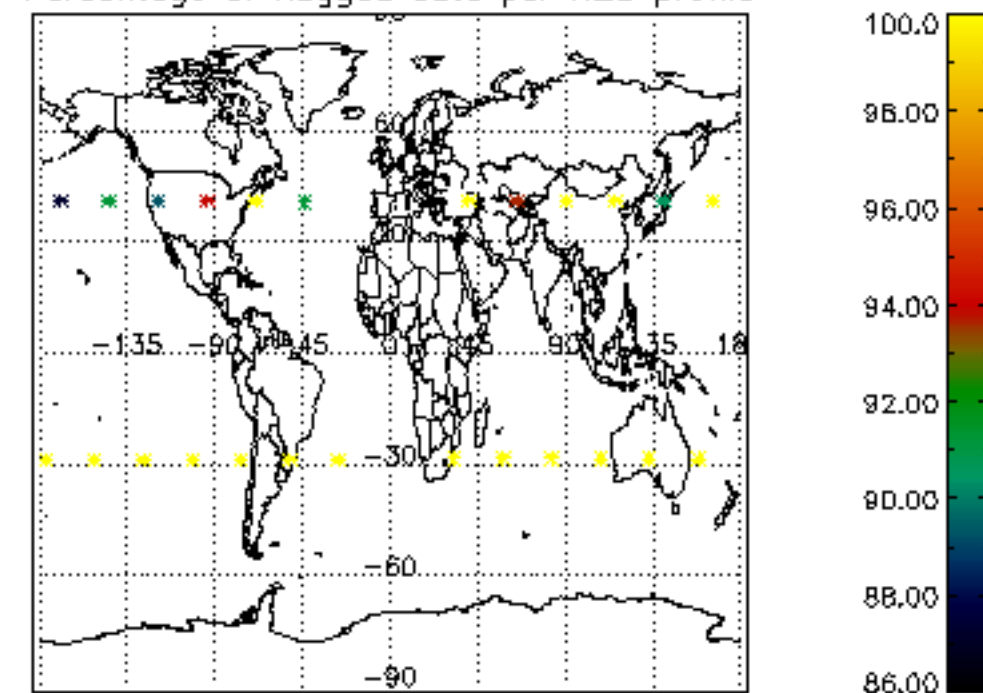
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	27-JAN-2012 01:02:12
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	27-JAN-2012 01:02:12
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	27-JAN-2012 01:02:12



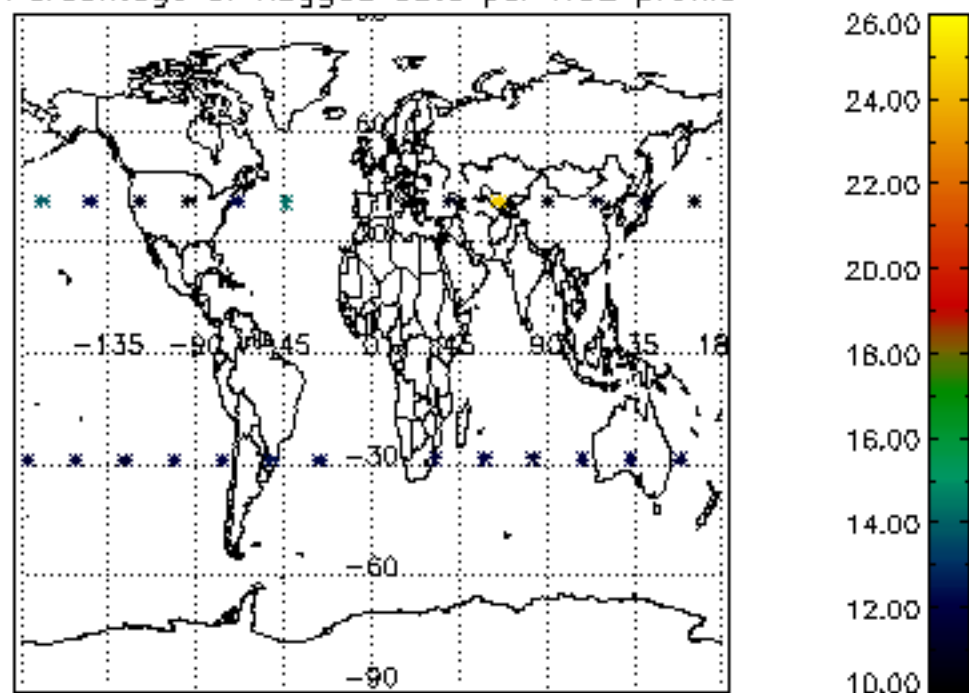
Percentage of flagged data per D3 profile



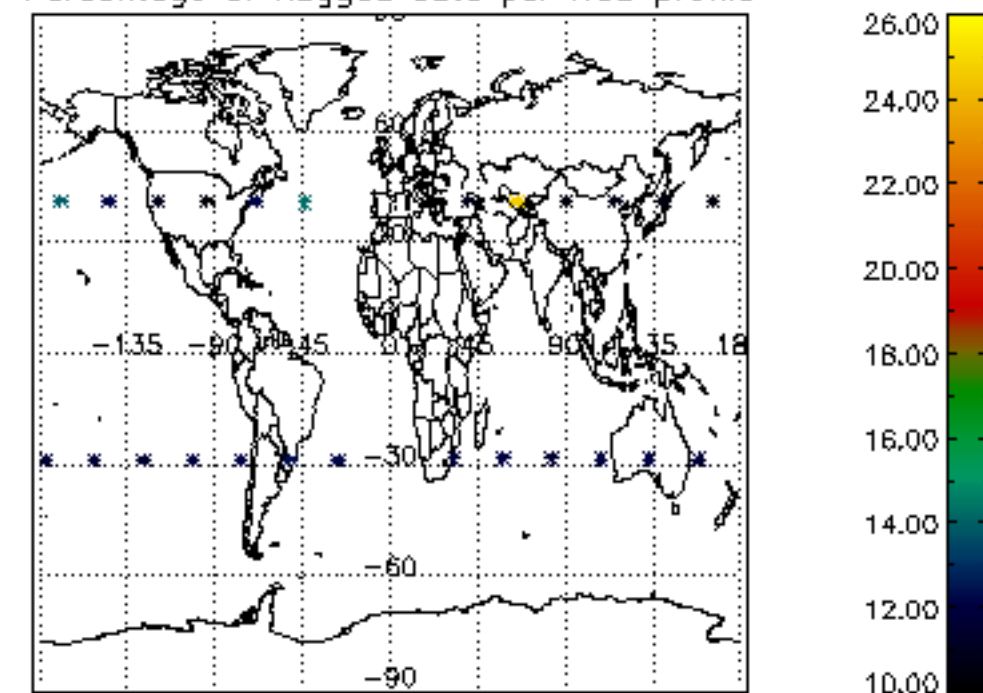
Percentage of flagged data per H2O profile

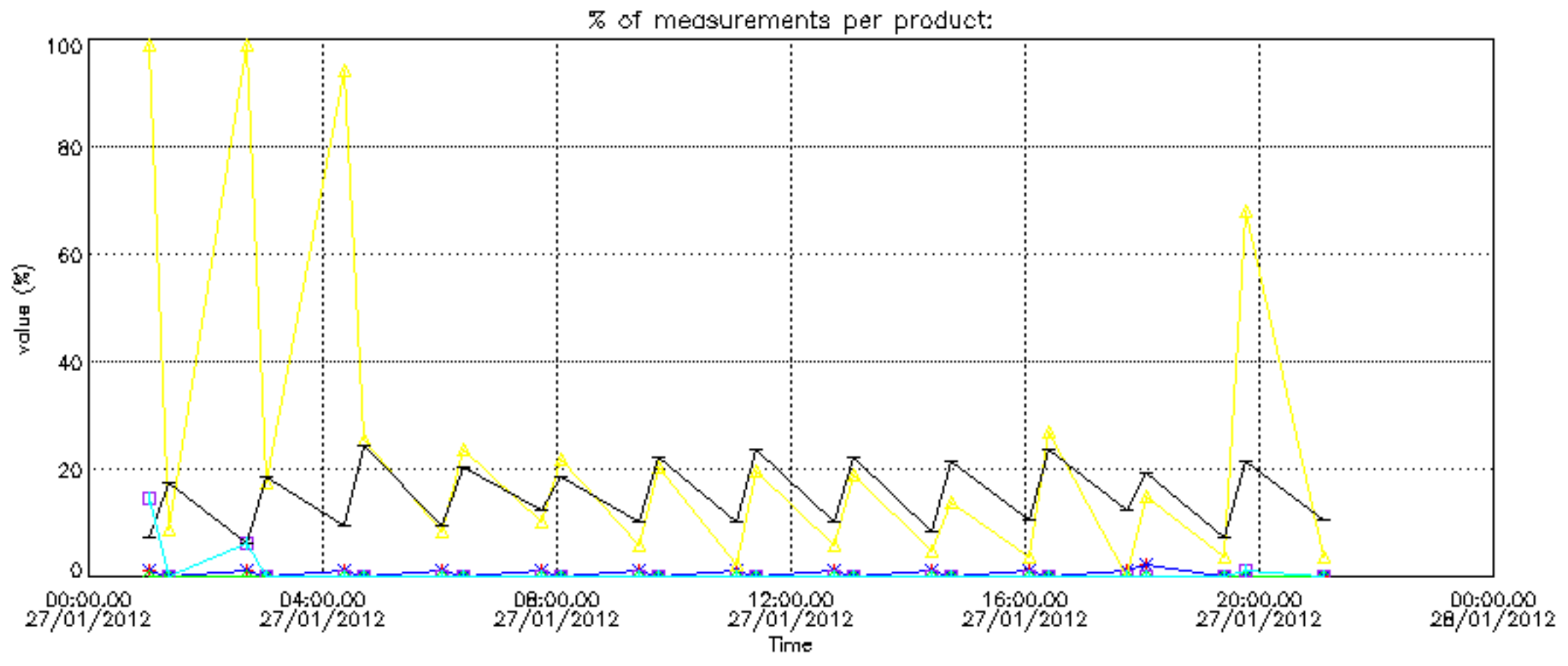


Percentage of flagged data per NO2 profile

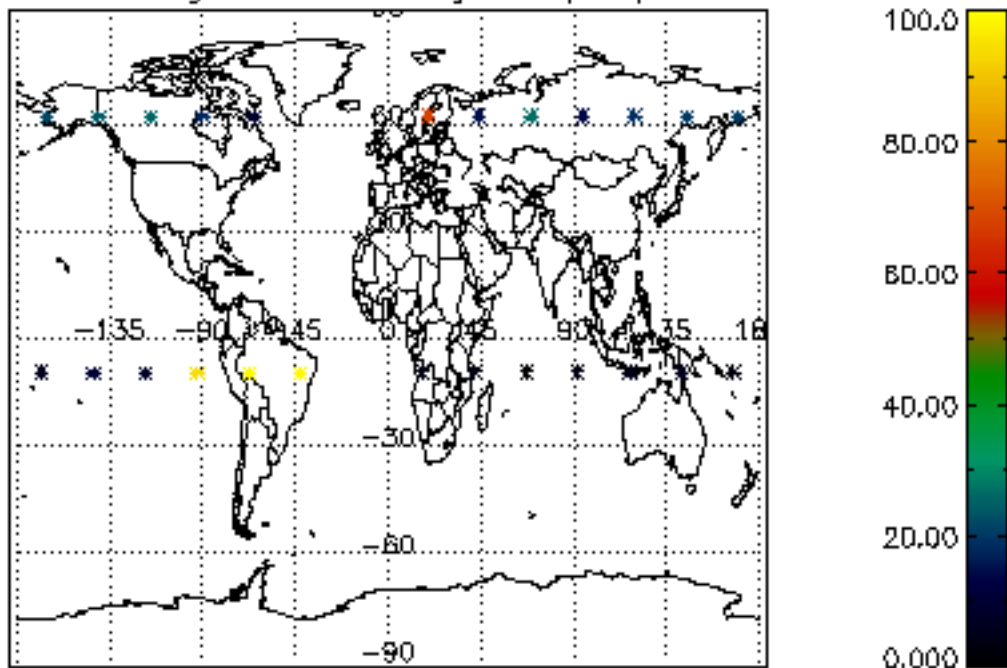


Percentage of flagged data per NO3 profile

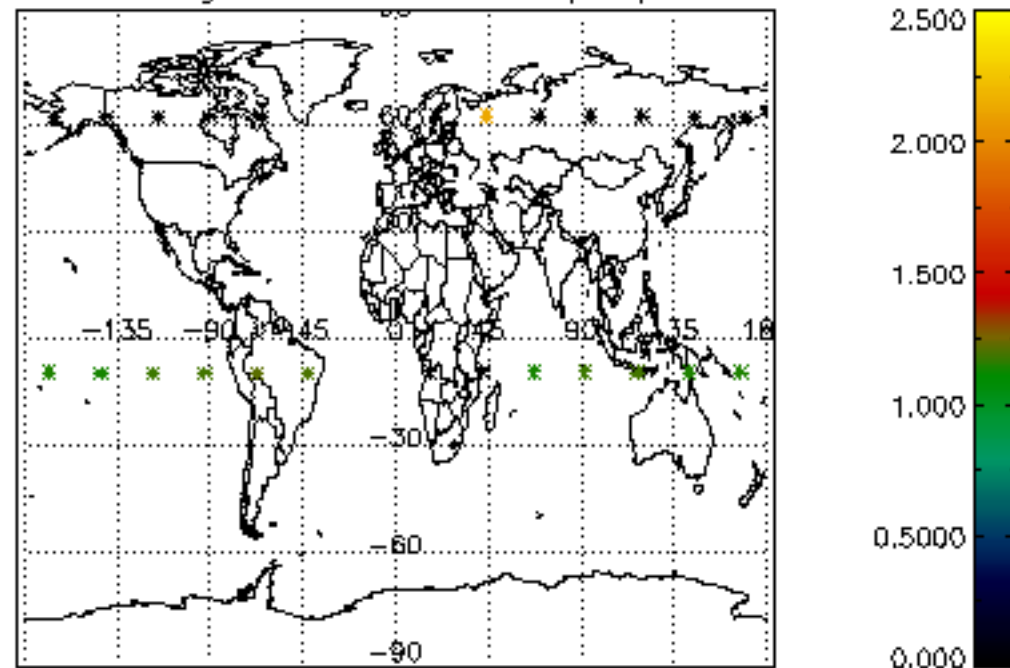




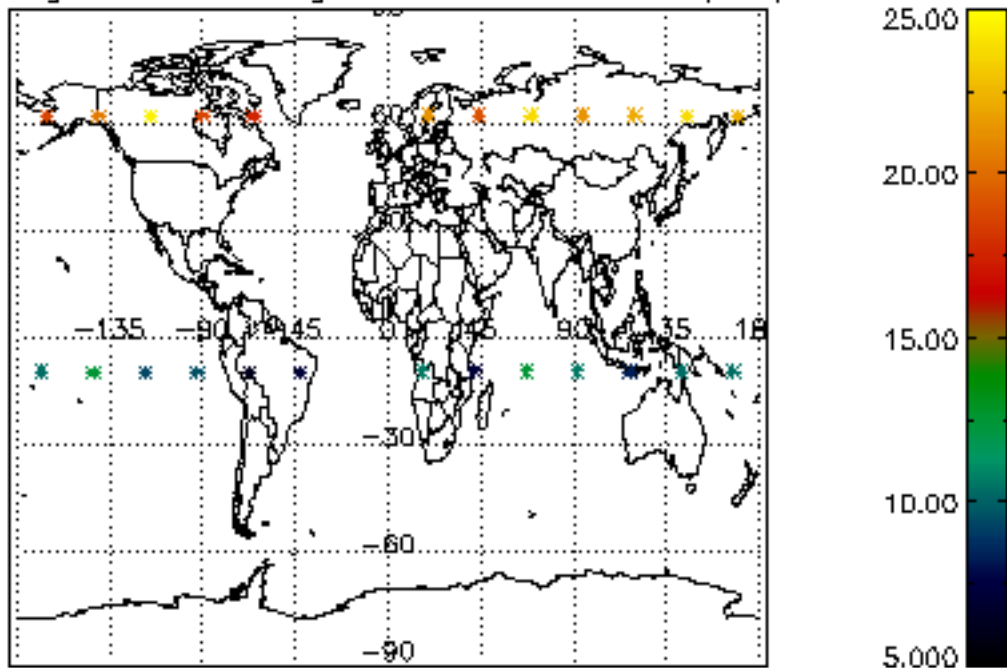
Percentage of cosmic ray hits per profile



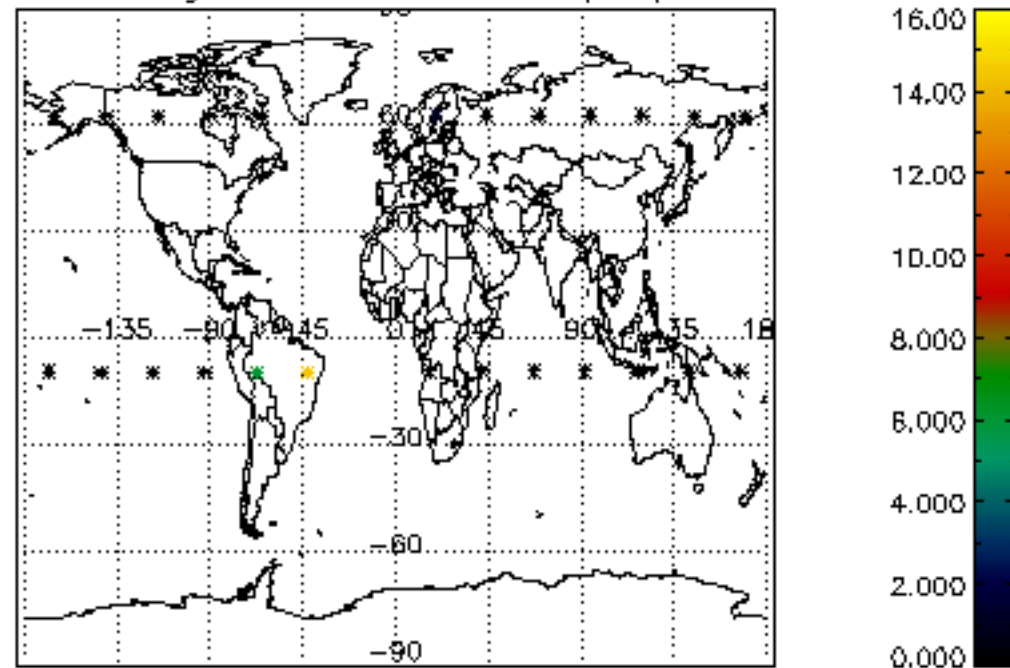
Percentage of datation errors per profile

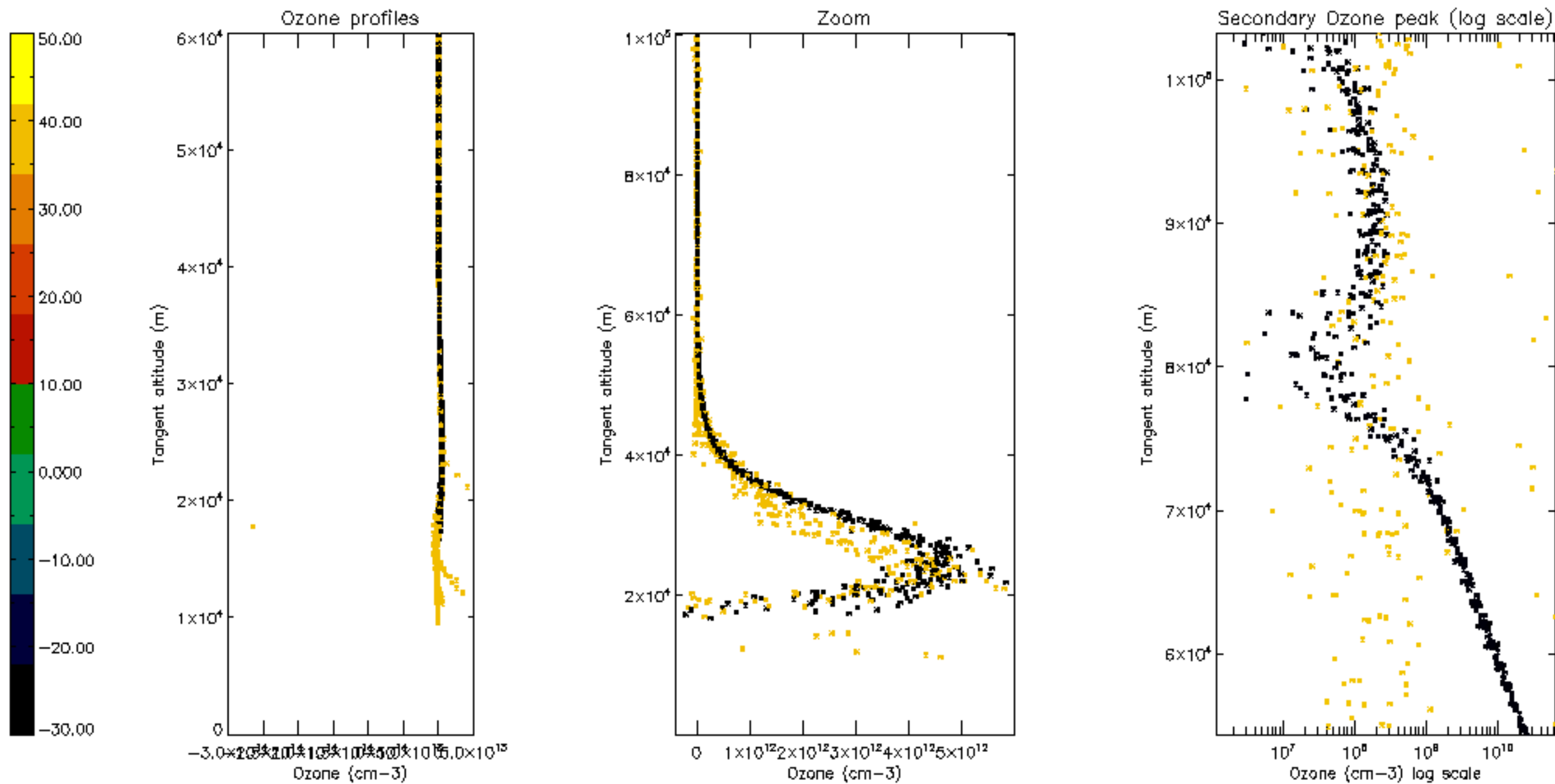


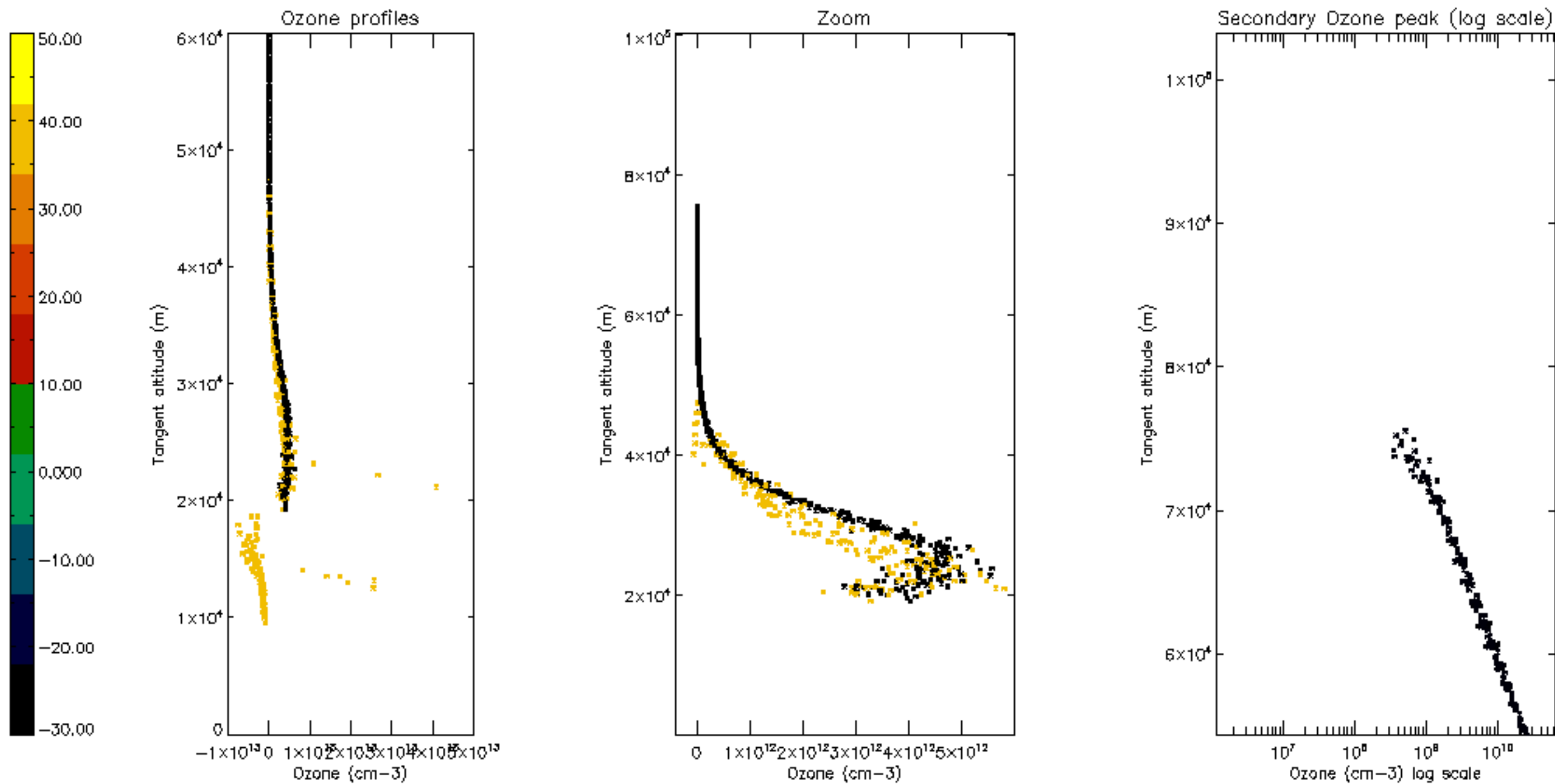
Percentage of star falling outside central band per profile

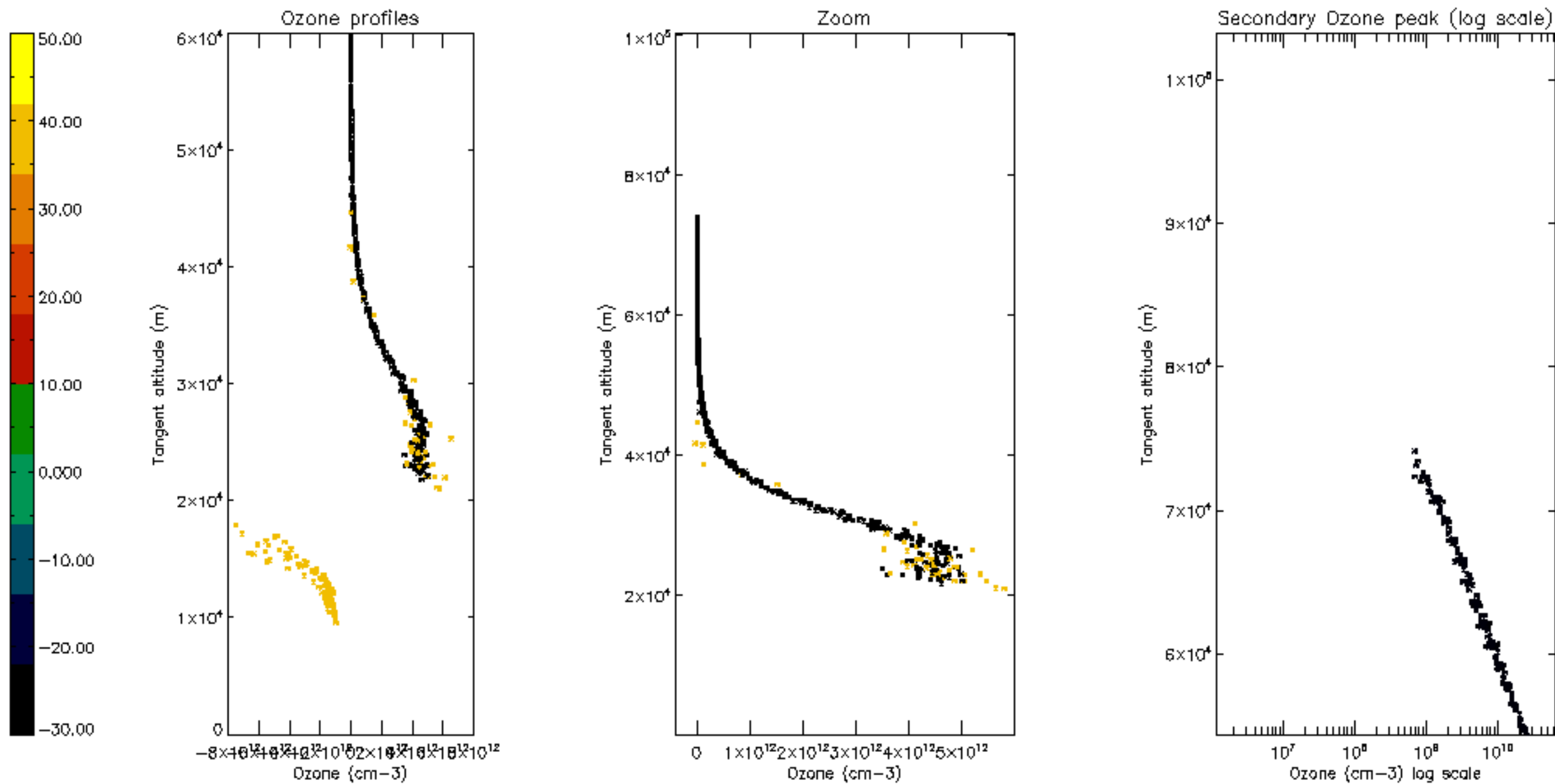


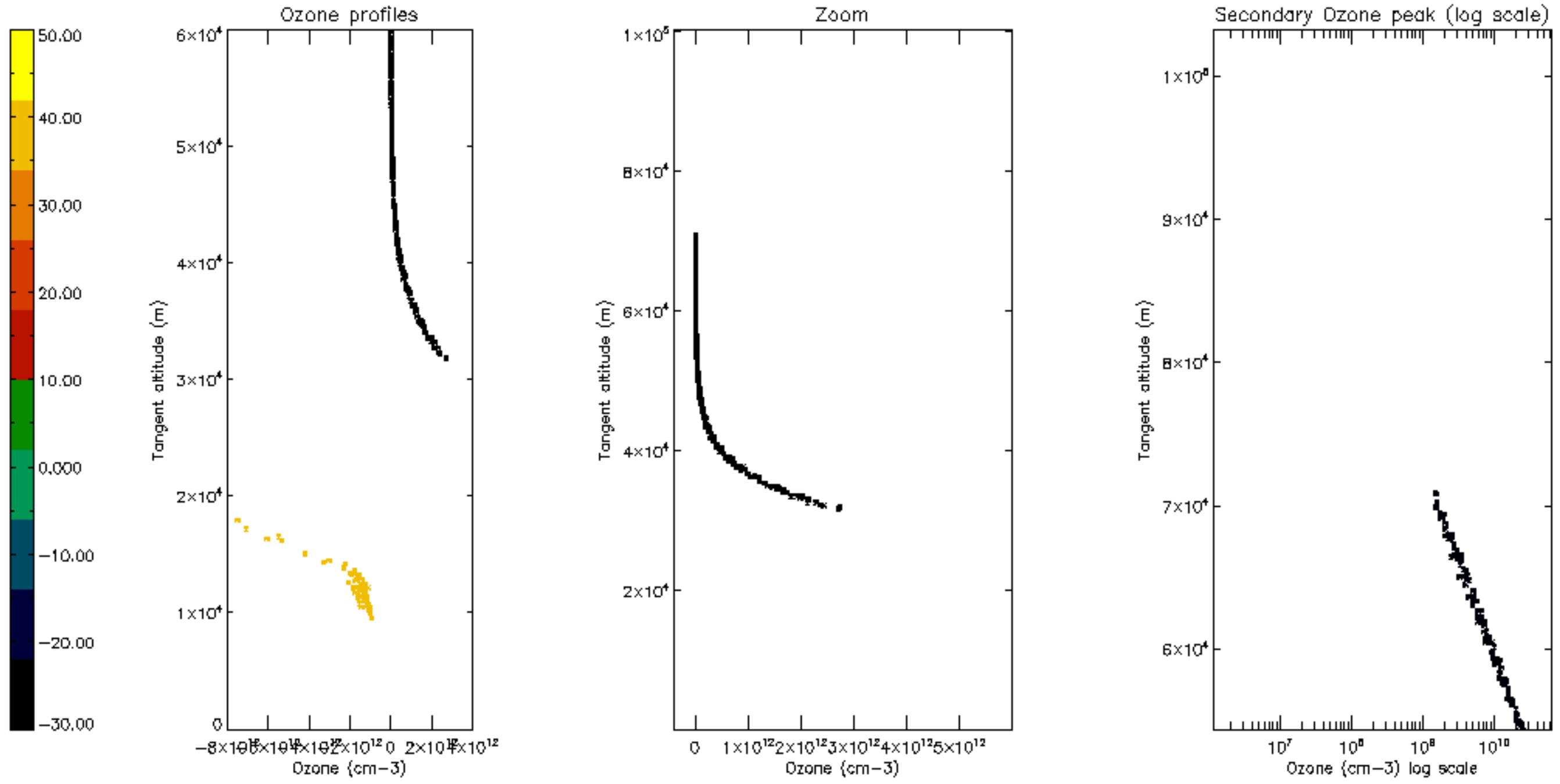
Percentage of saturation errors per profile

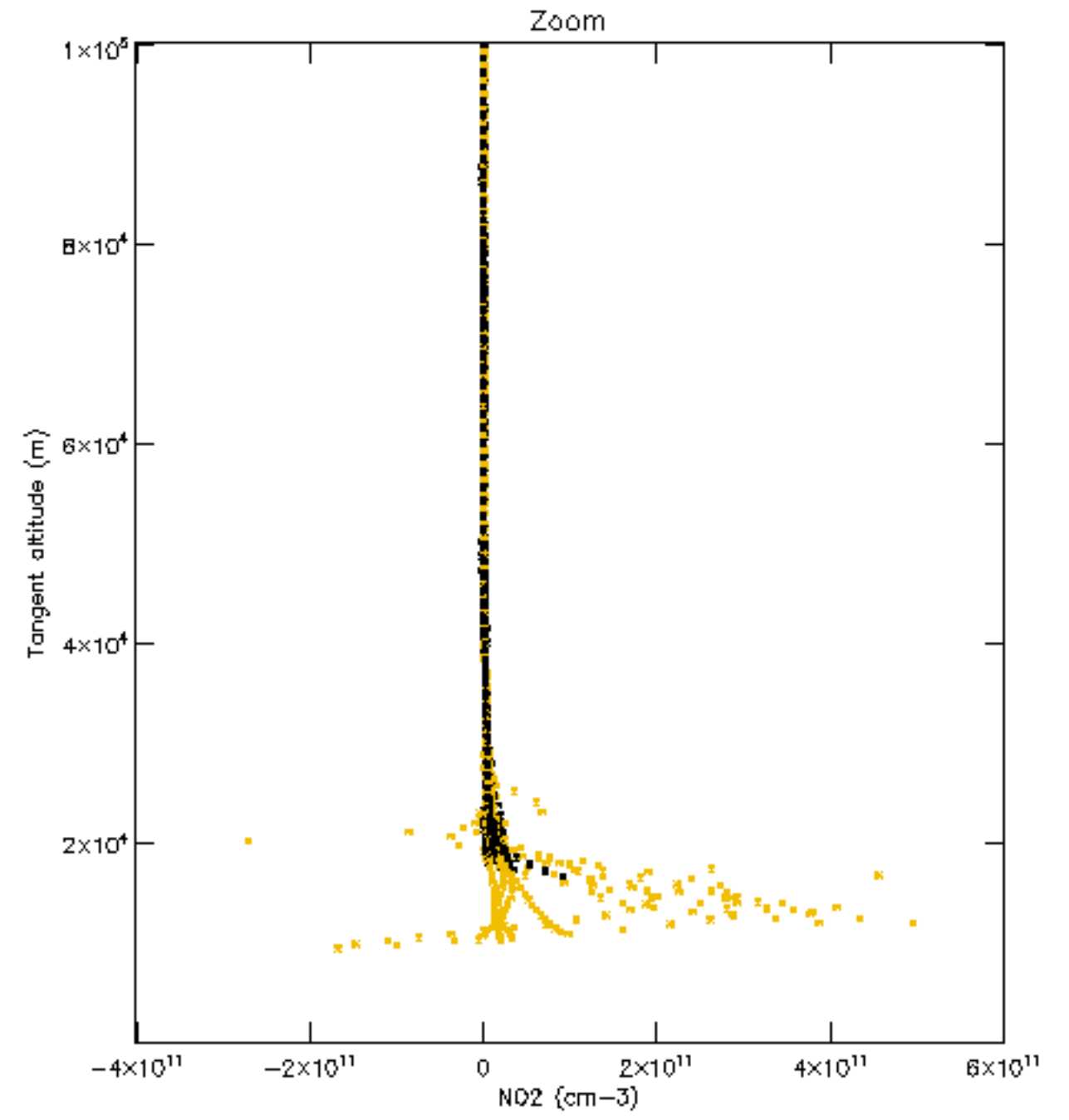
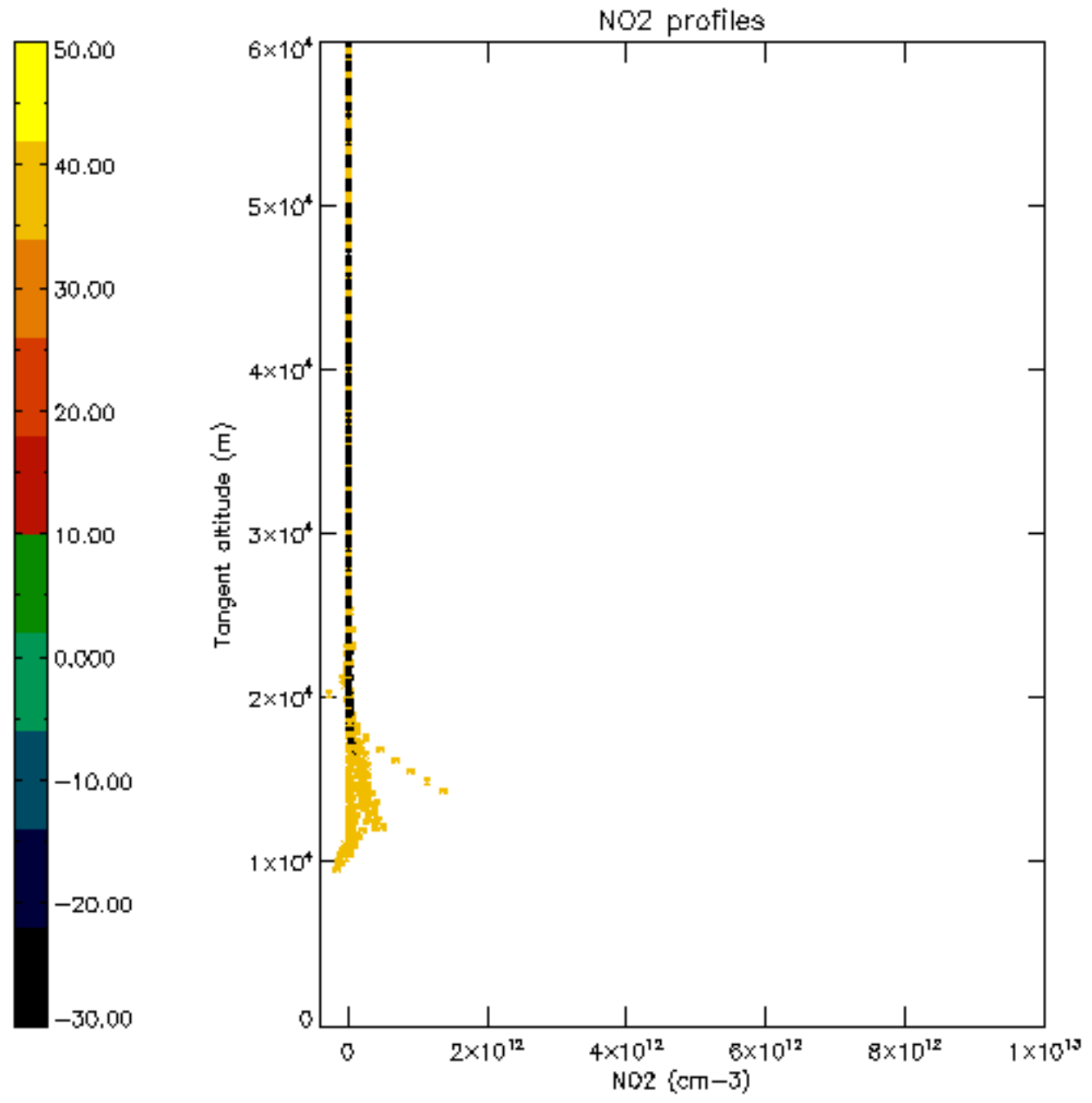


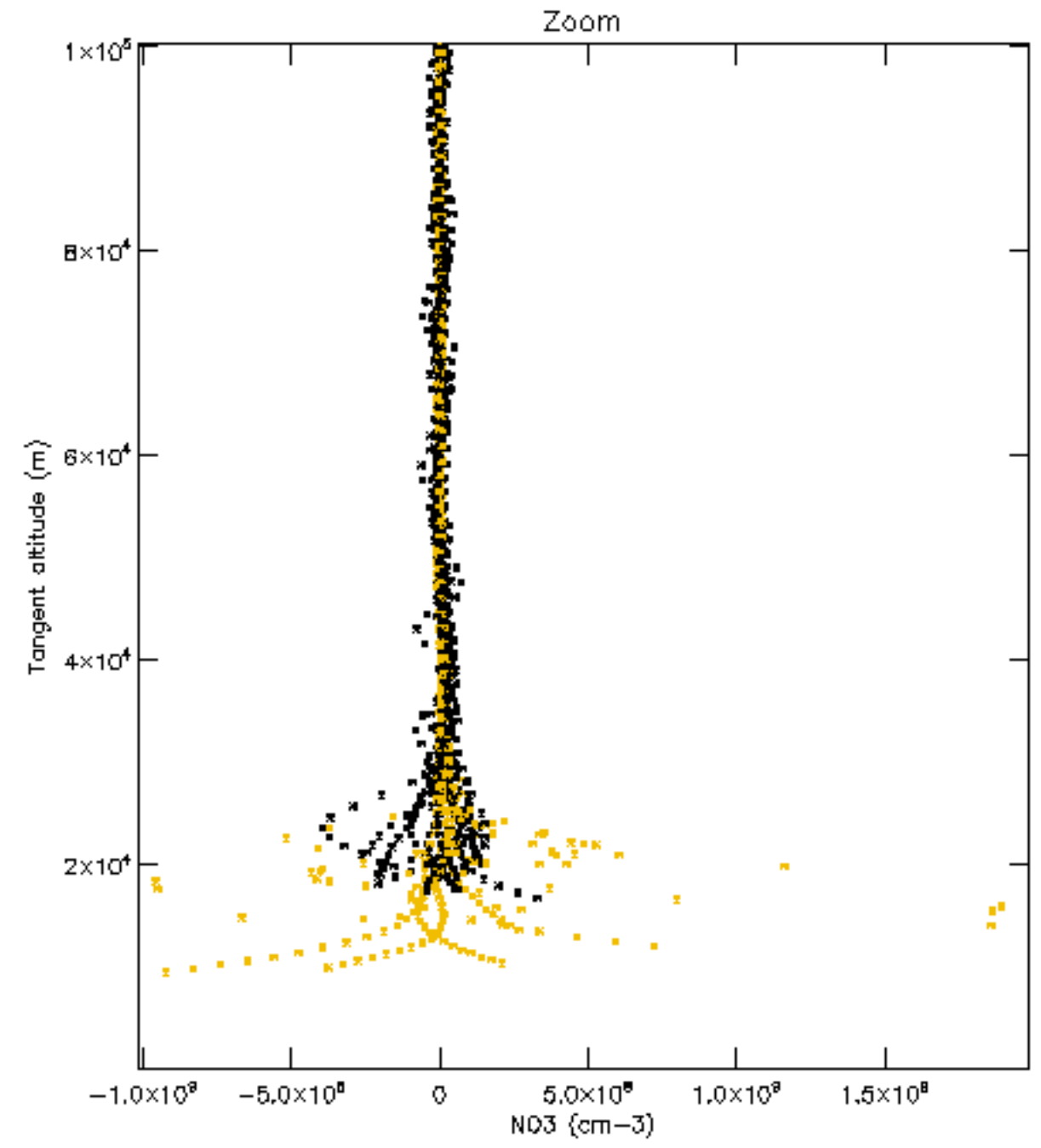
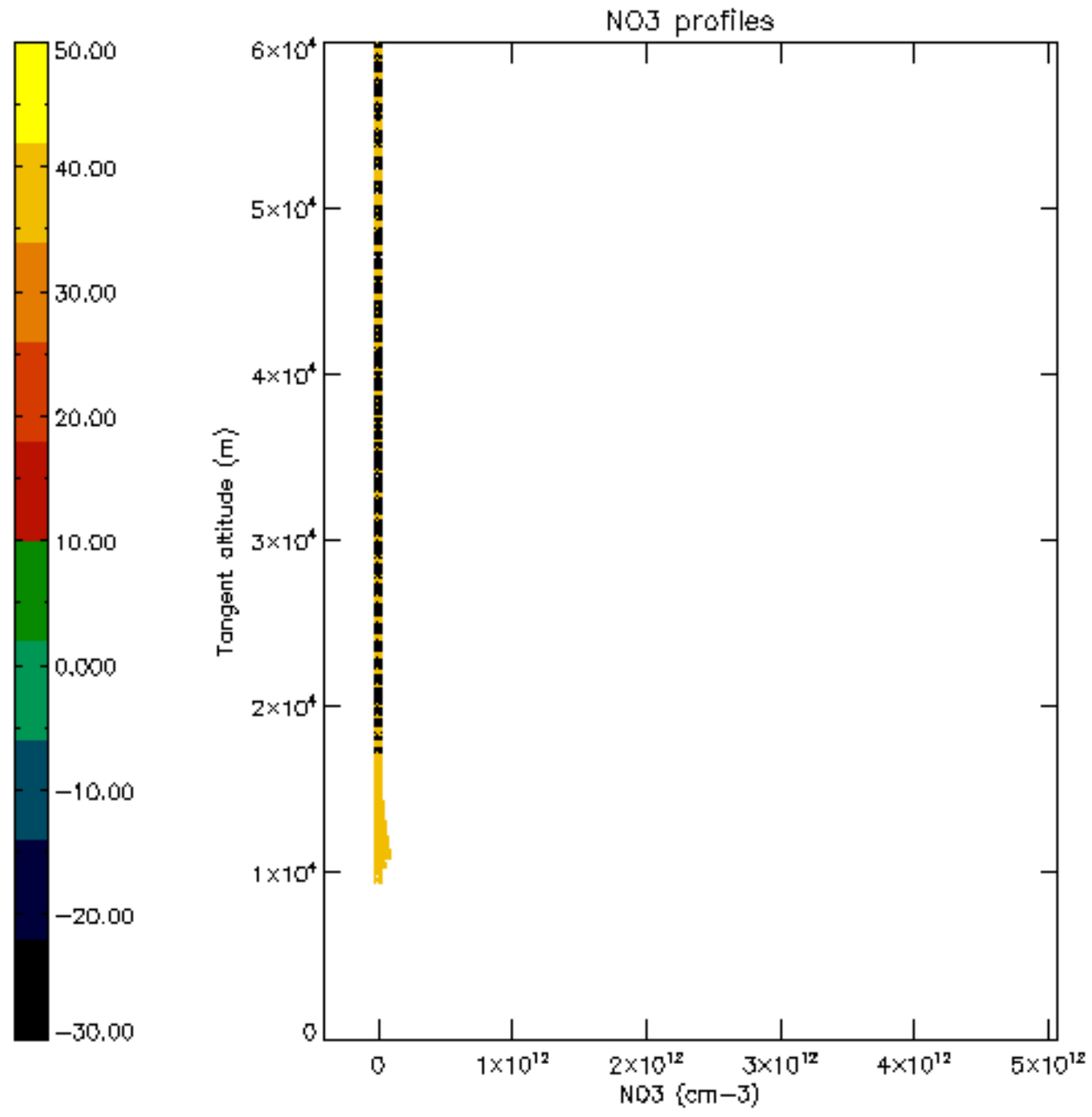


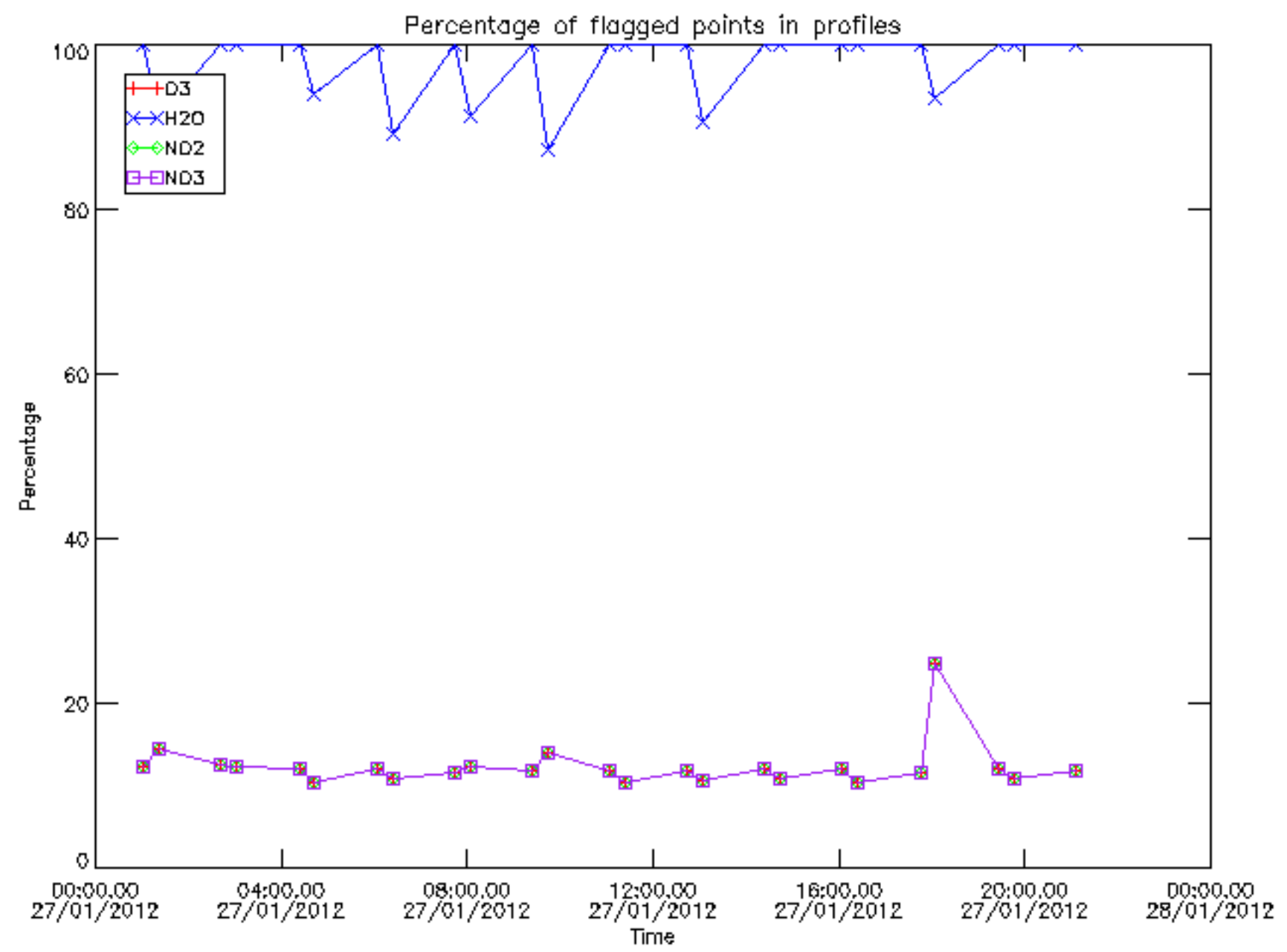




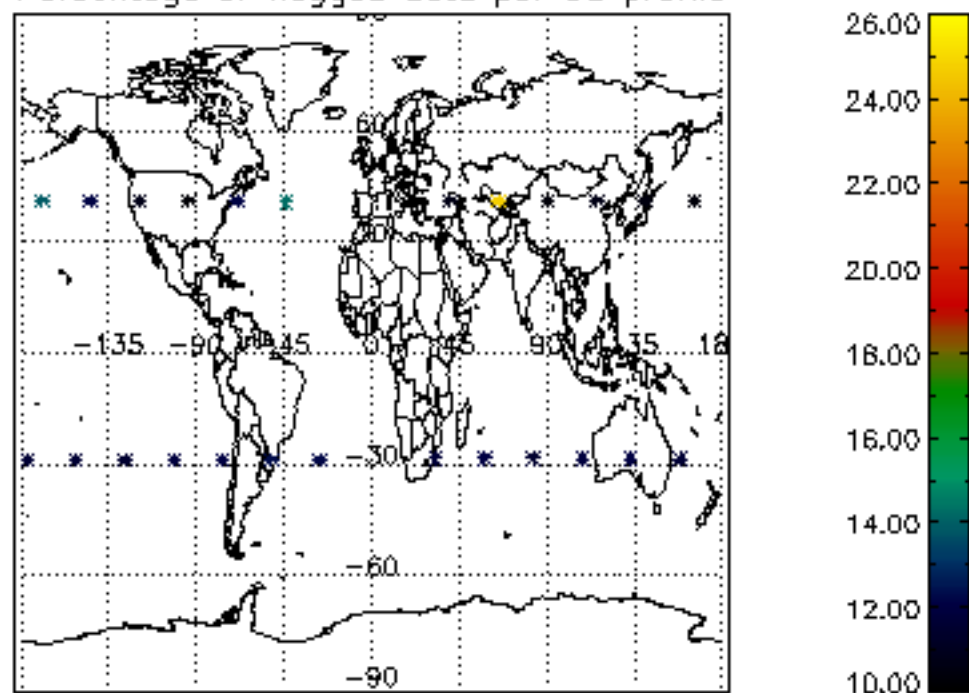




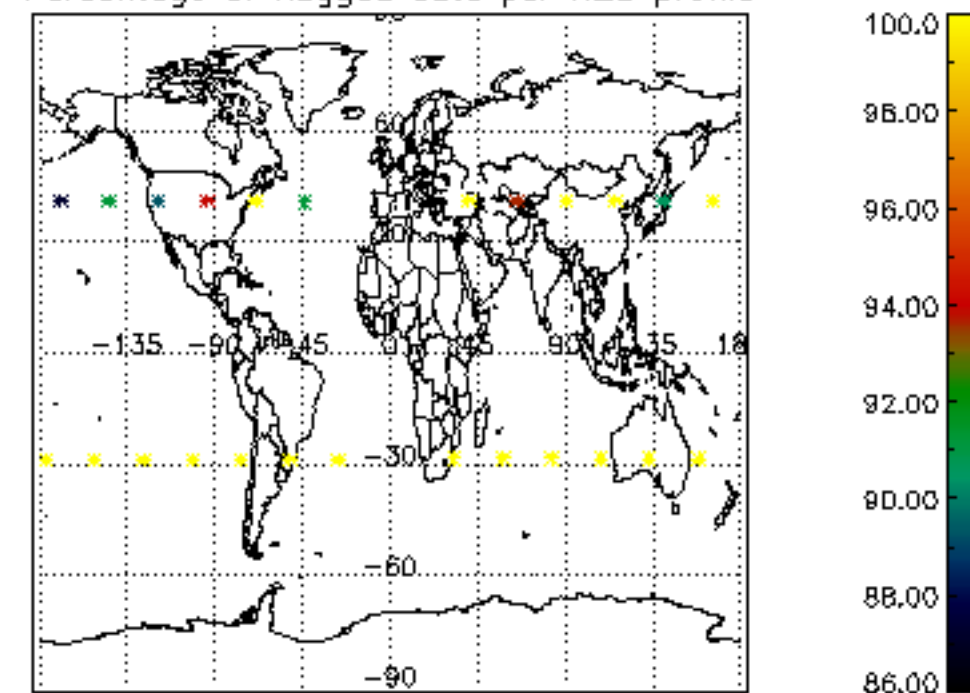




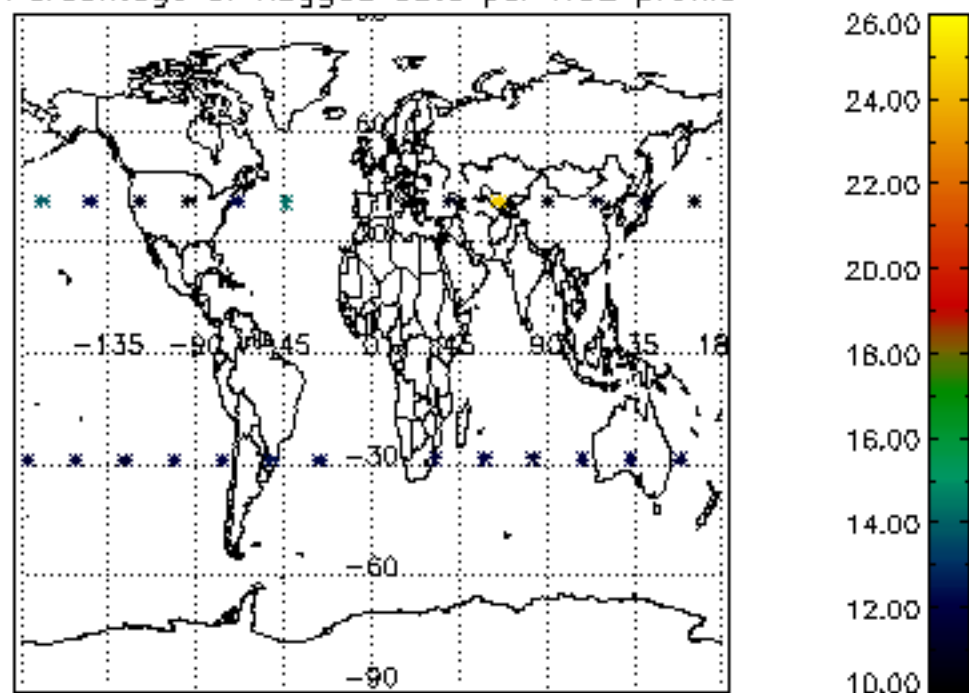
Percentage of flagged data per D3 profile



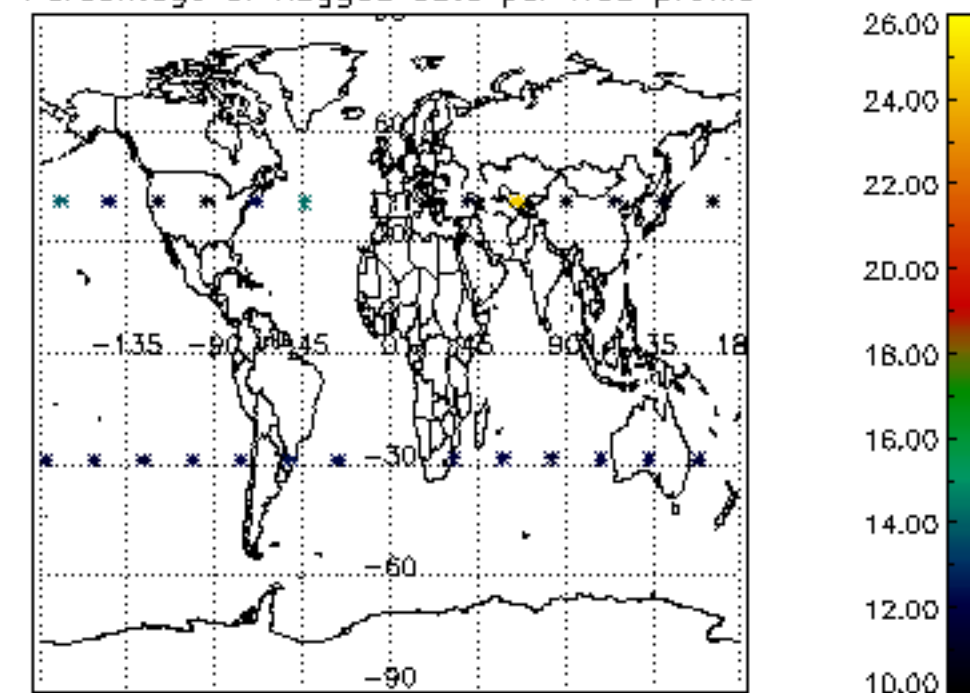
Percentage of flagged data per H2O profile

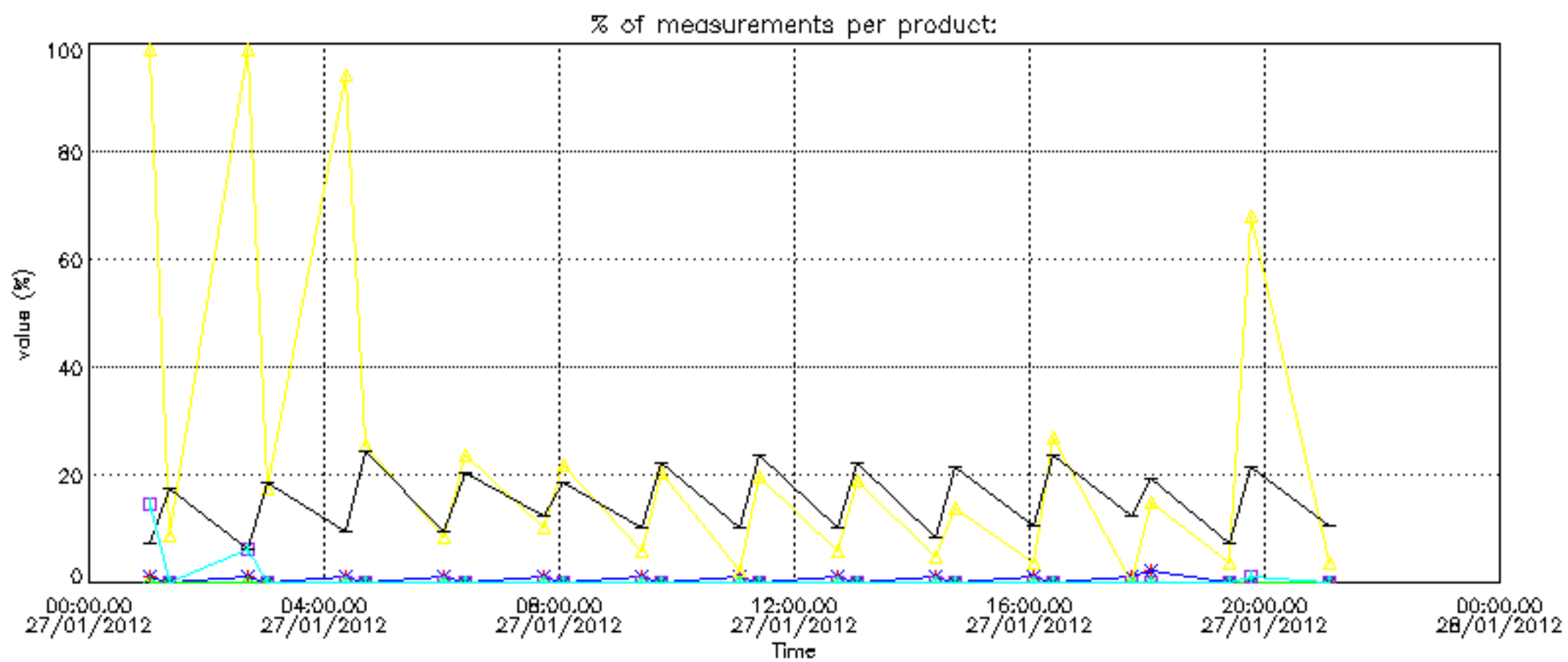


Percentage of flagged data per NO2 profile

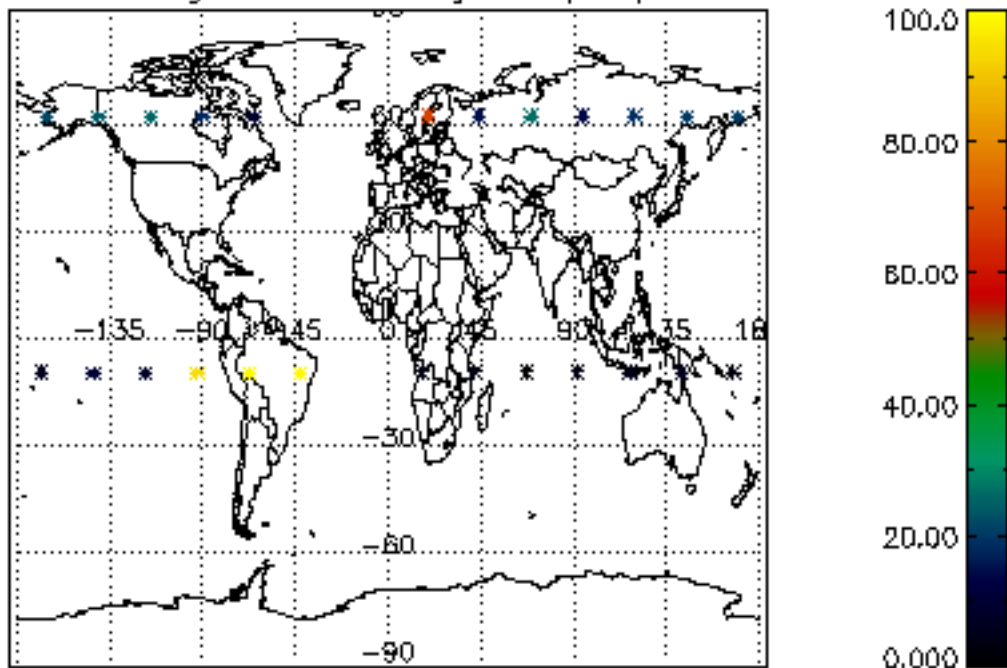


Percentage of flagged data per NO3 profile

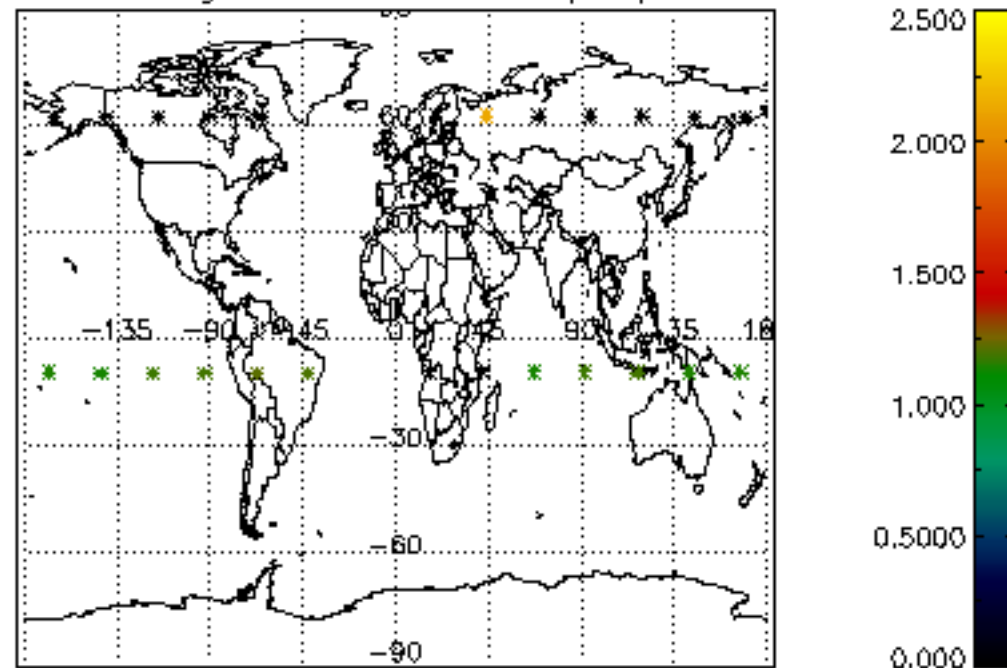




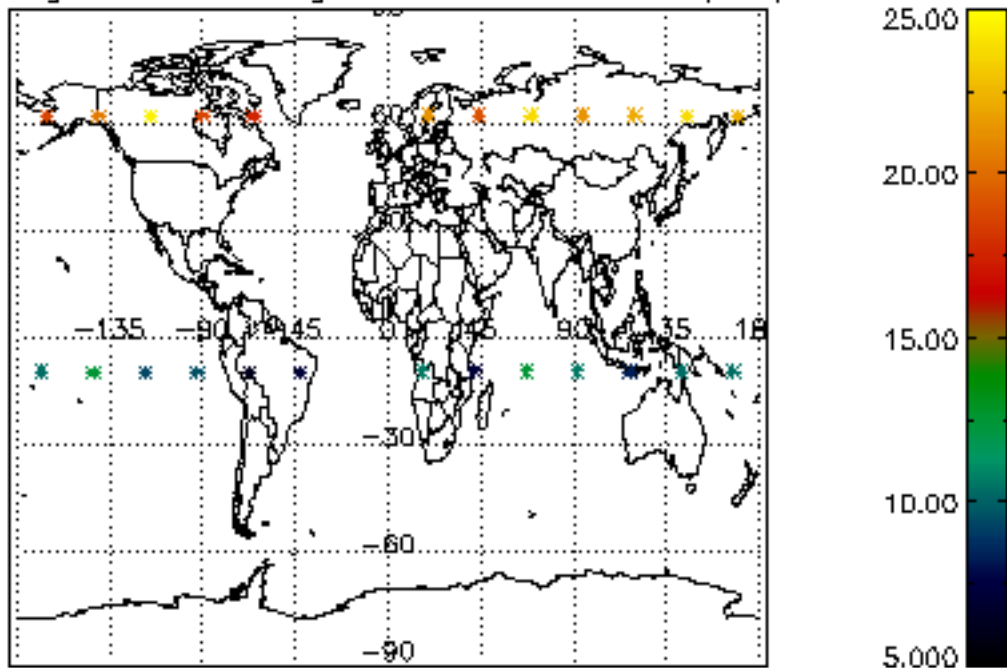
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

