

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	17APR2013 17:36:49
Data source version	GOMOS/6.01
Start time of products	07-05-2002 (07MAY2002 00:00:00)
Stop time of products	08-05-2002 (08MAY2002 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	23
Nb of prods with errors	0

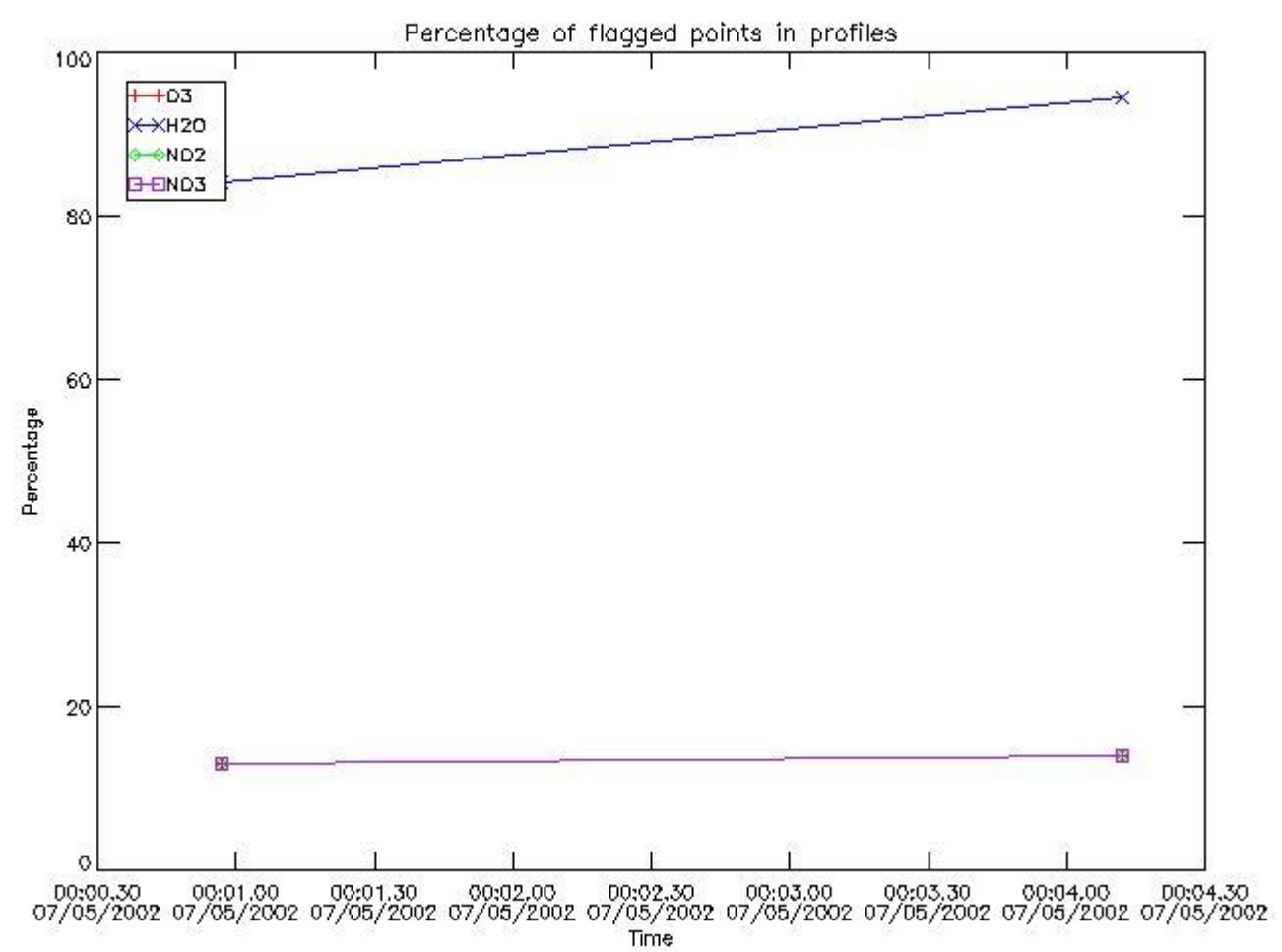
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20020507_000056_000000352005_00403_00958_0765.N1	07-MAY-2002 00:00:56	Dark	35.000	148	Alp Tuc	2.8780	4100.0	70	958	No
2	GOM_NL__2PRFIN20020507_000412_000000372005_00403_00958_0766.N1	07-MAY-2002 00:04:12	Dark	36.500	45	Alp Pav	1.9400	26000.	73	958	No
3	GOM_NL__2PRFIN20020507_001021_000000352005_00403_00958_0767.N1	07-MAY-2002 00:10:21	Straylight	34.500	43	Alp TrA	1.9100	4250.0	69	958	No
4	GOM_NL__2PRFIN20020507_001234_000000392005_00403_00958_0768.N1	07-MAY-2002 00:12:34	Straylight	39.000	147	Alp Ara	2.8770	26000.	78	958	No
5	GOM_NL__2PRFIN20020507_001354_000000582005_00403_00958_0769.N1	07-MAY-2002 00:13:54	Straylight	57.500	40	The Sco	1.8590	7100.0	115	958	No
6	GOM_NL__2PRFIN20020507_001544_000000552005_00403_00958_0770.N1	07-MAY-2002 00:15:44	Straylight	55.000	25	35Lam Sco	1.6200	28000.	110	958	No
7	GOM_NL__2PRFIN20020507_001758_000000362005_00403_00958_0771.N1	07-MAY-2002 00:17:58	Straylight	35.500	78	Alp Lup	2.3040	28000.	71	958	No
8	GOM_NL__2PRFIN20020507_001929_000000352005_00403_00958_0772.N1	07-MAY-2002 00:19:29	Straylight	35.000	81	Eta Cen	2.3560	28000.	70	958	No
9	GOM_NL__2PRFIN20020507_002109_000000492005_00403_00958_0773.N1	07-MAY-2002 00:21:09	Twilight_stray	48.500	136	23Tau Sco	2.8220	30000.	97	958	No
10	GOM_NL__2PRFIN20020507_002247_000000442005_00403_00958_0774.N1	07-MAY-2002 00:22:47	Twilight_stray	44.000	158	6Pi Sco	2.9060	28000.	88	958	No
11	GOM_NL__2PRFIN20020507_002459_000000472005_00403_00958_0775.N1	07-MAY-2002 00:24:59	Bright	47.000	97	8Bet1Sco	2.5610	30000.	94	958	No
12	GOM_NL__2PRFIN20020507_002655_000000372005_00403_00958_0776.N1	07-MAY-2002 00:26:55	Bright	37.000	122	9Alp2Lib	2.7470	9700.0	74	958	No
13	GOM_NL__2PRFIN20020507_002858_000000352005_00403_00958_0777.N1	07-MAY-2002 00:28:58	Bright	35.000	15	67Alp Vir	0.97600	28000.	70	958	No
14	GOM_NL__2PRFIN20020507_003207_000000332005_00403_00958_0778.N1	07-MAY-2002 00:32:07	Bright	33.000	121	29Gam Vir	2.7400	7200.0	66	958	No
15	GOM_NL__2PRFIN20020507_003519_000000322005_00403_00958_0779.N1	07-MAY-2002 00:35:19	Bright	31.500	138	47Eps Vir	2.8280	4700.0	63	958	No
16	GOM_NL__2PRFIN20020507_003741_000000412005_00403_00958_0780.N1	07-MAY-2002 00:37:41	Bright	40.500	3	16Alp Boo	-0.050000	4250.0	81	958	No
17	GOM_NL__2PRFIN20020507_004034_000000392005_00403_00958_0781.N1	07-MAY-2002 00:40:34	Bright	38.500	83		2.3780	11000.	77	958	No
18	GOM_NL__2PRFIN20020507_004206_000000442005_00403_00958_0782.N1	07-MAY-2002 00:42:06	Bright	43.500	67	5Alp CrB	2.2210	11000.	87	958	No
19	GOM_NL__2PRFIN20020507_004610_000000312005_00403_00958_0783.N1	07-MAY-2002 00:46:10	Bright	30.500	39	85Eta UMa	1.8540	24000.	61	958	No
20	GOM_NL__2PRFIN20020507_004753_000000302005_00403_00958_0784.N1	07-MAY-2002 00:47:53	Bright	30.000	32	77Eps UMa	1.7630	11000.	60	958	No
21	GOM_NL__2PRFIN20020507_004919_000000342005_00403_00958_0785.N1	07-MAY-2002 00:49:19	Bright	34.000	82	48Bet UMa	2.3650	10600.	68	958	No
22	GOM_NL__2PRFIN20020507_005033_000000342005_00403_00958_0786.N1	07-MAY-2002 00:50:33	Bright	33.500	36	50Alp UMa	1.8000	6300.0	67	958	No
23	GOM_NL__2PRFIN20020507_005256_000000382005_00403_00958_0787.N1	07-MAY-2002 00:52:56	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	958	No

3. Quality information per product

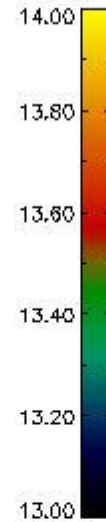
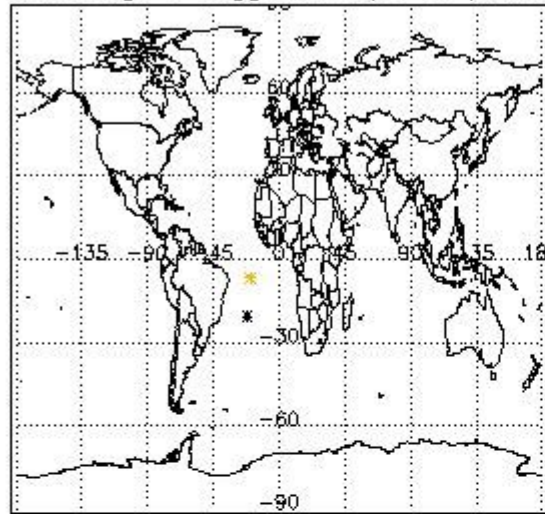
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

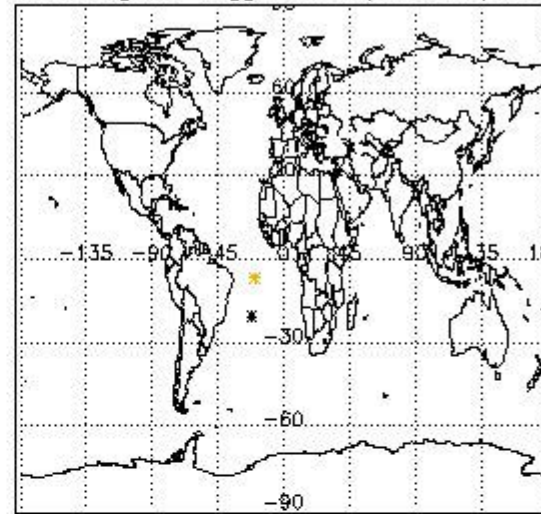


3.2 Plot quality information per product (world map)

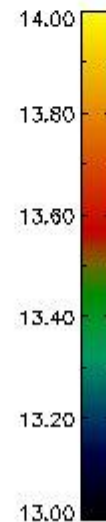
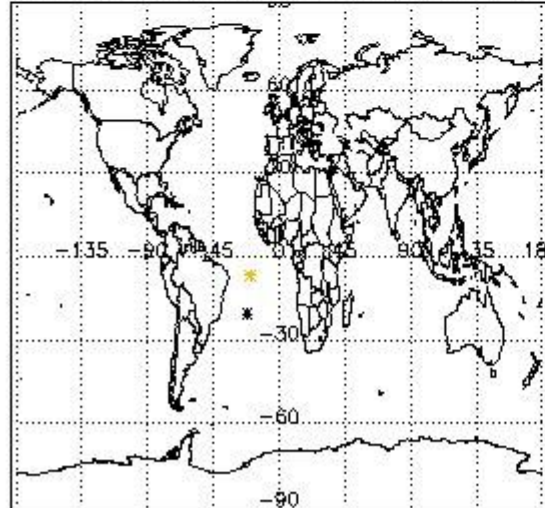
Percentage of flagged data per O3 profile



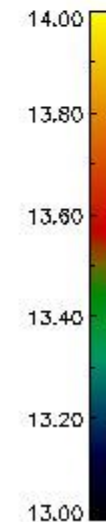
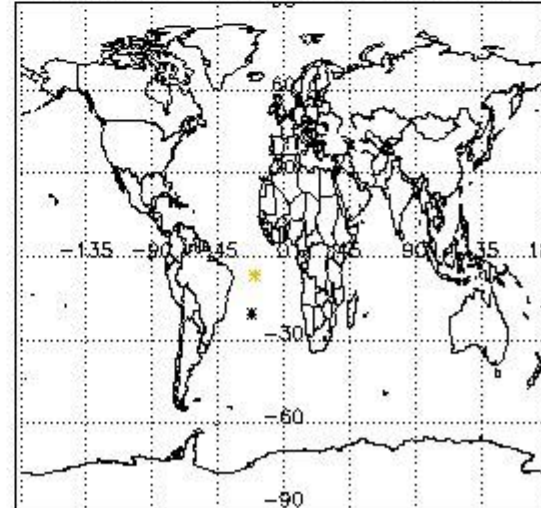
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

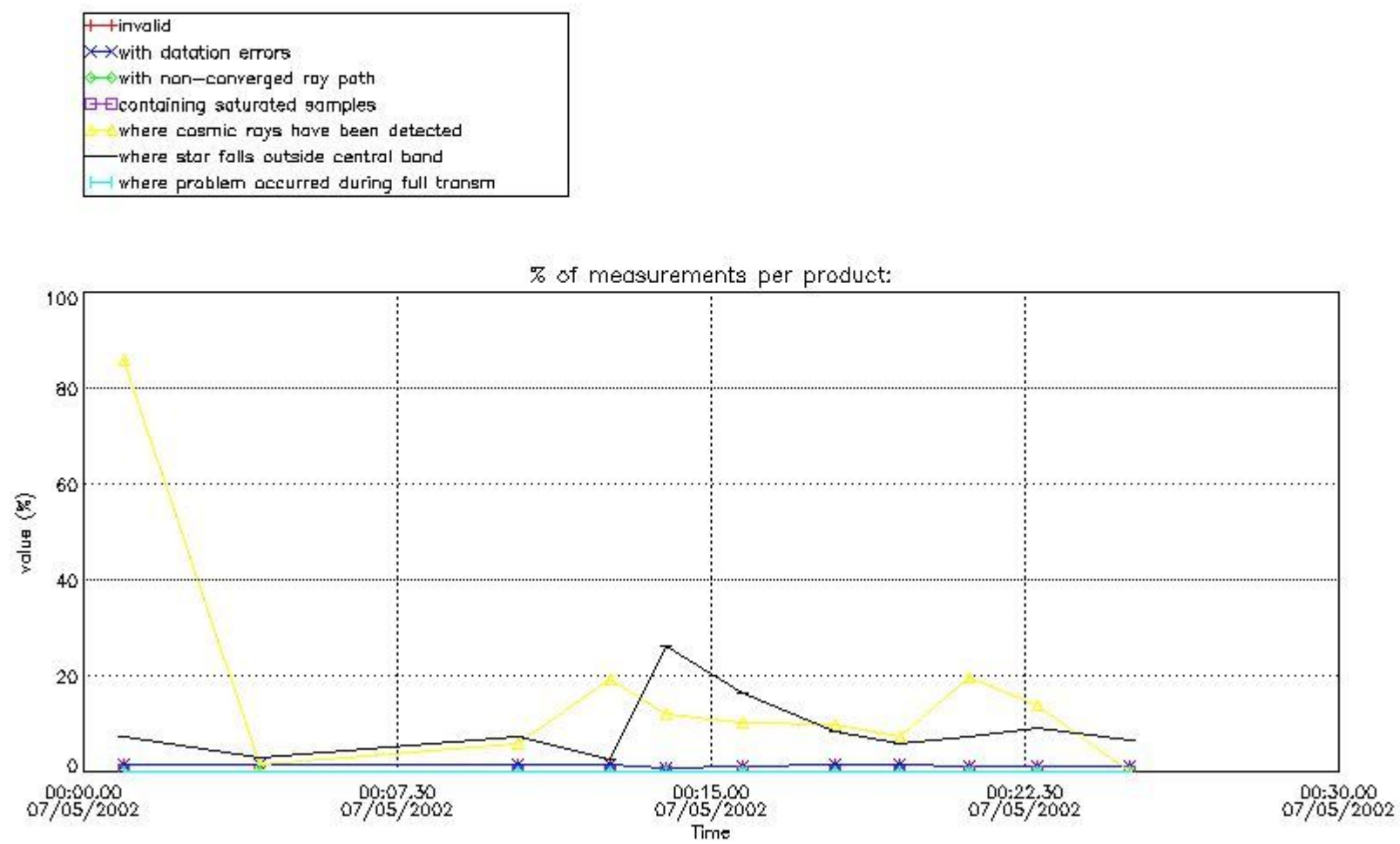


4. Level 1 quality information per product

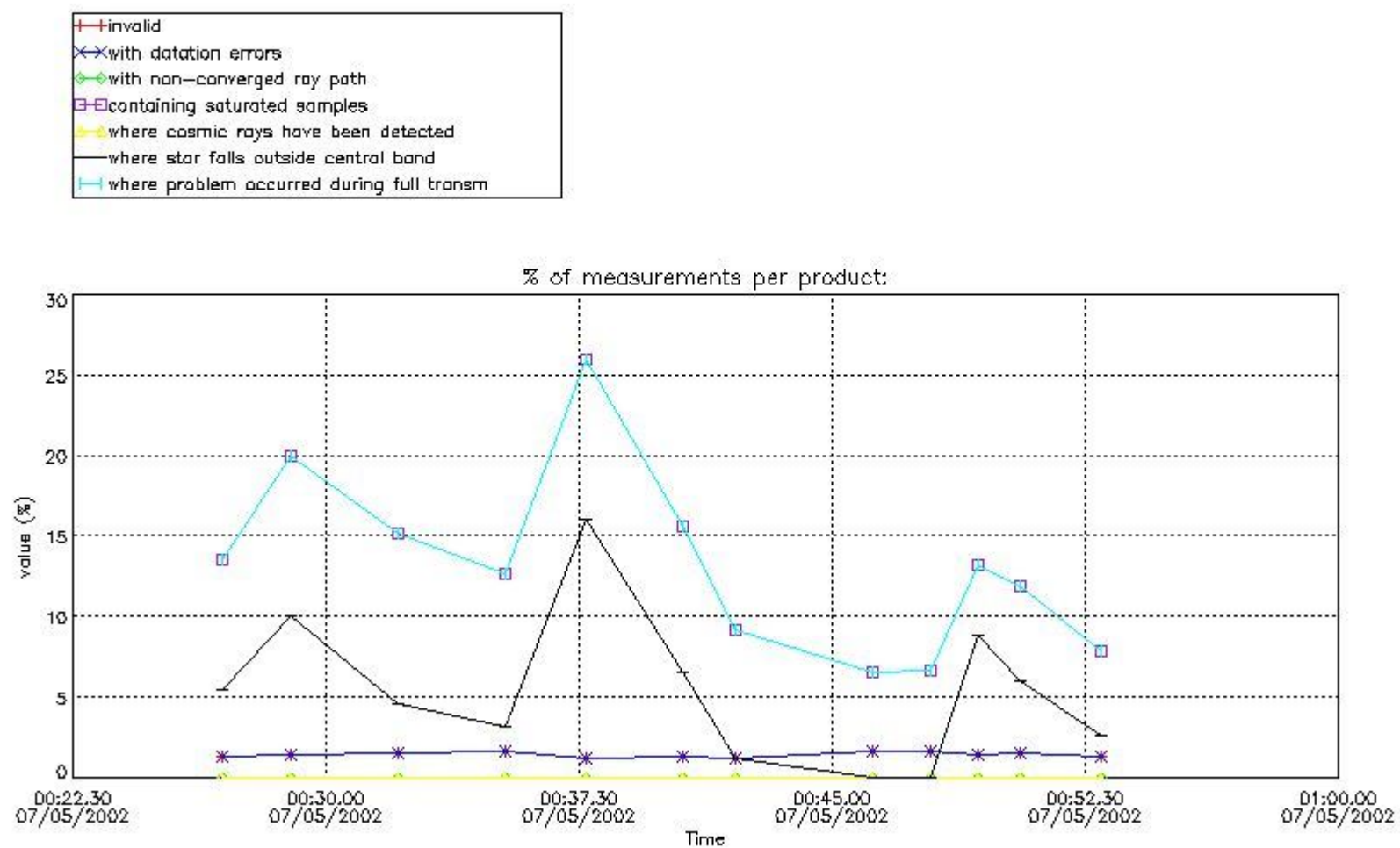
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

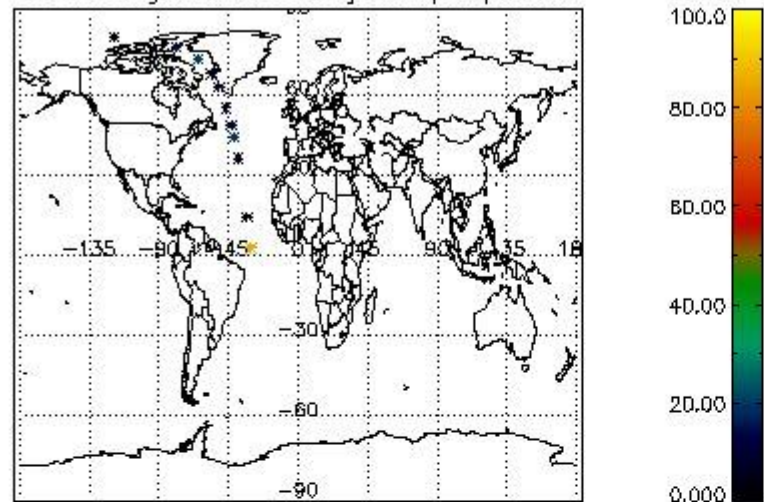


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

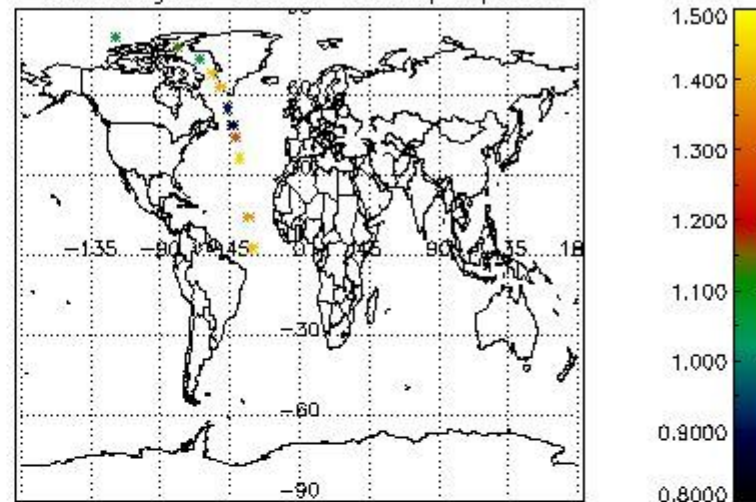


4.2 Plot quality information per product coming from level 1b processing (world map)
 4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

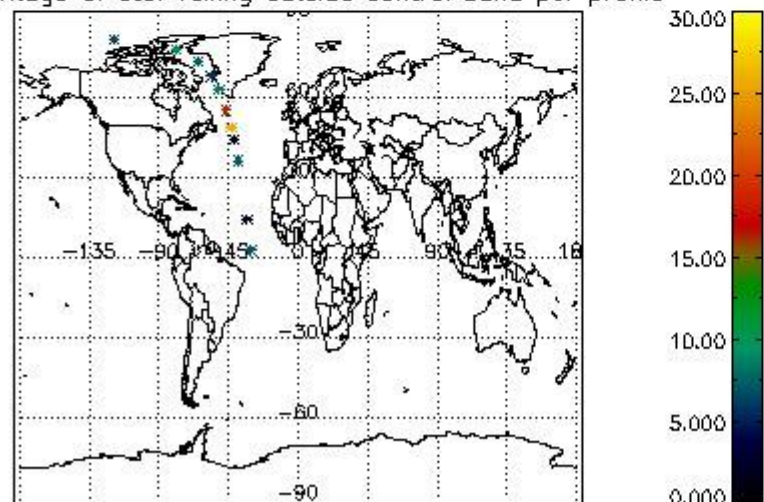
Percentage of cosmic ray hits per profile



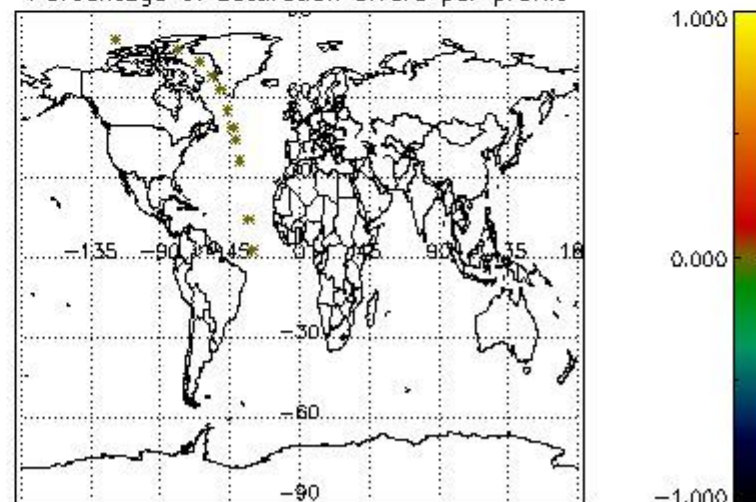
Percentage of datation errors per profile



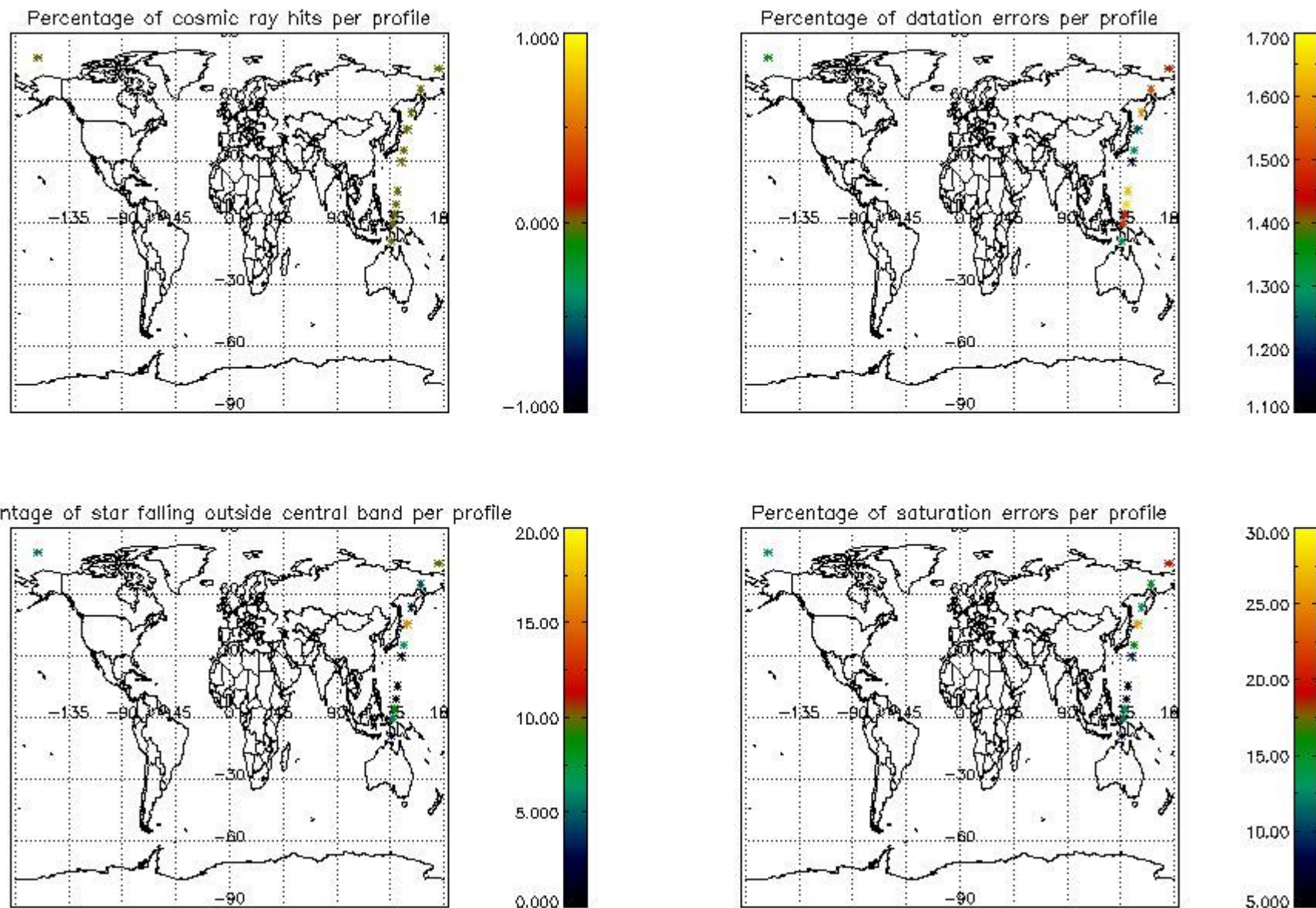
Percentage of star falling outside central band per profile



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

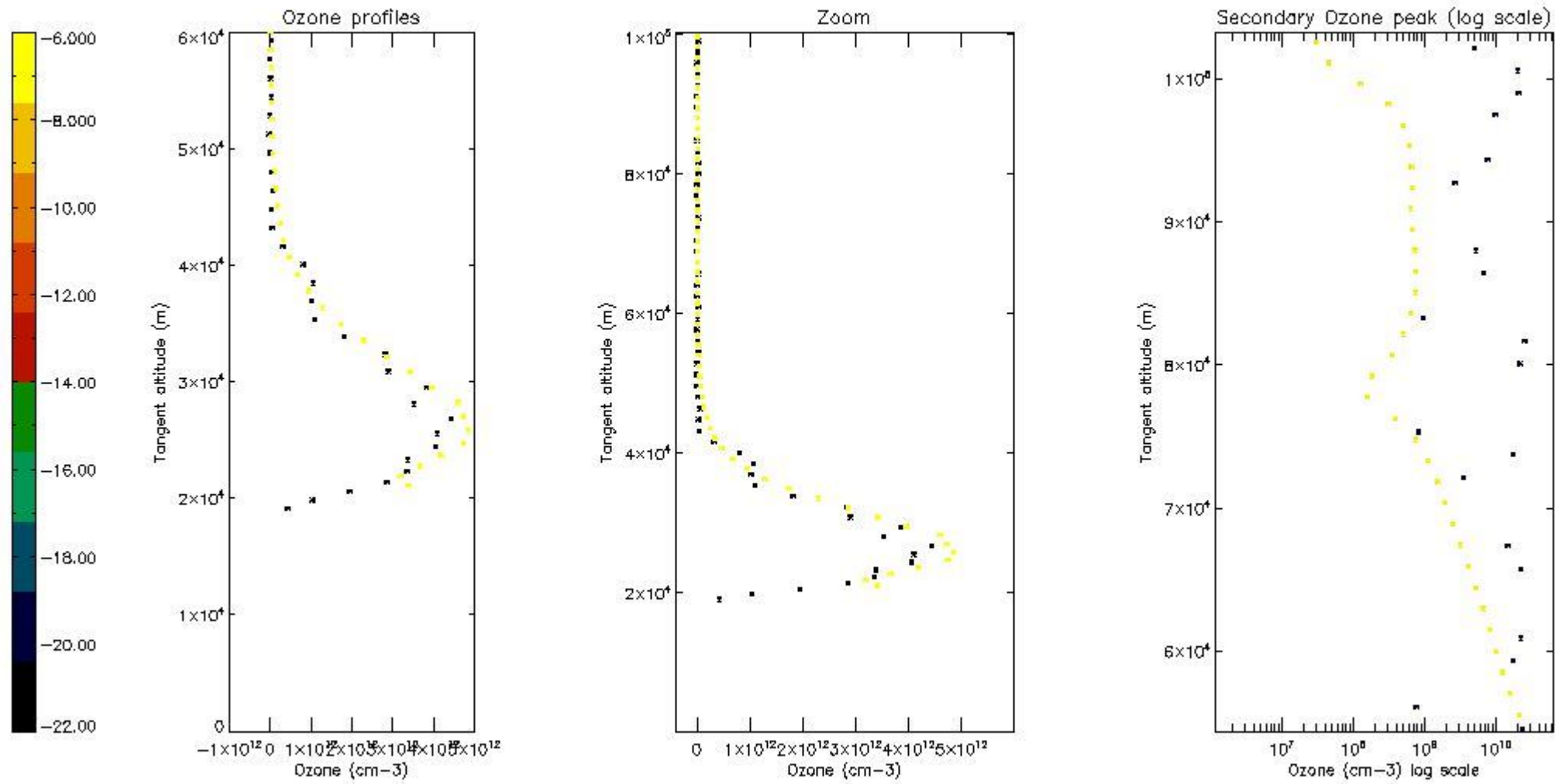
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	8
STD < 20	5

STD < 10	4
STD < 5	3

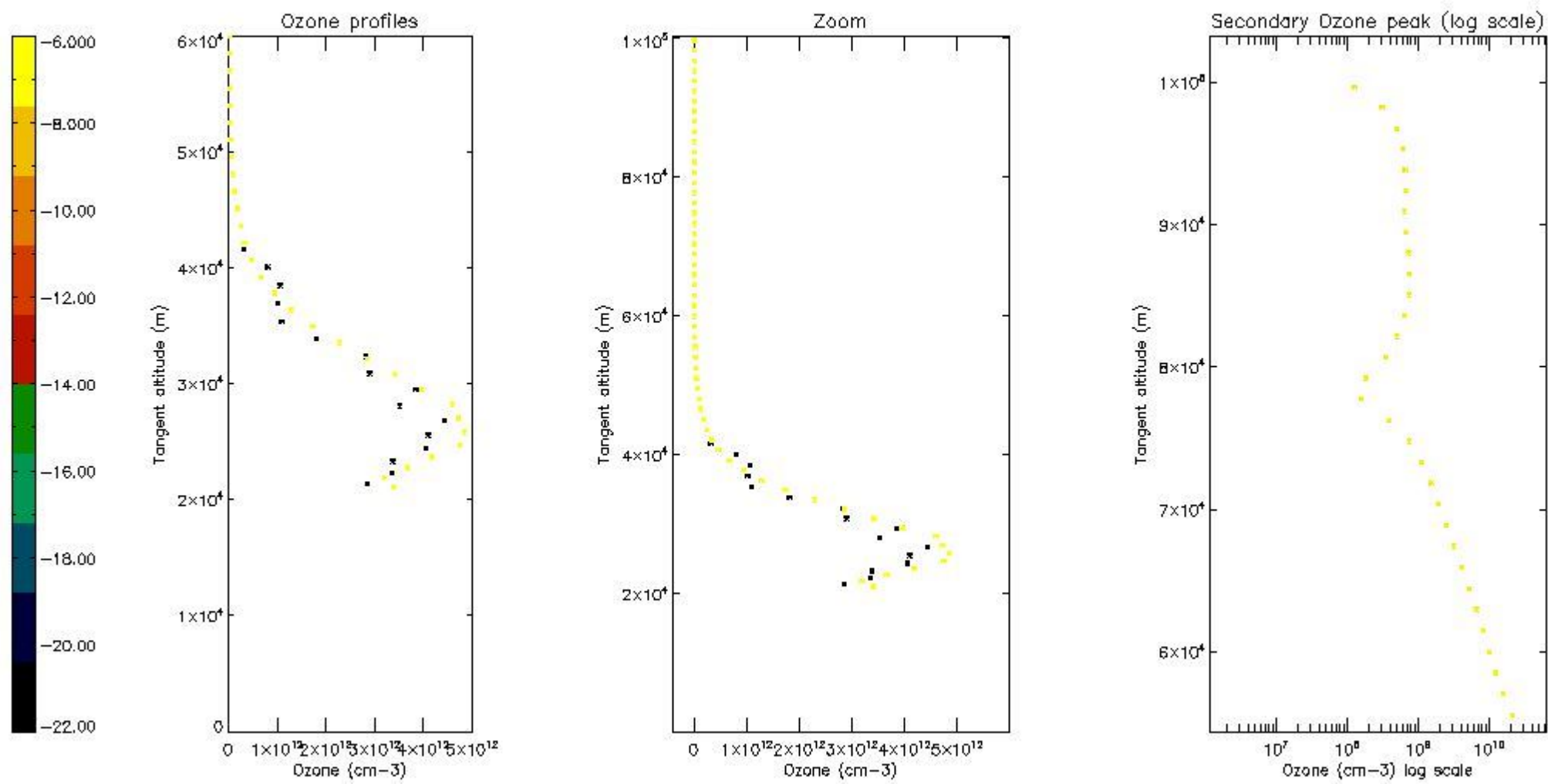
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



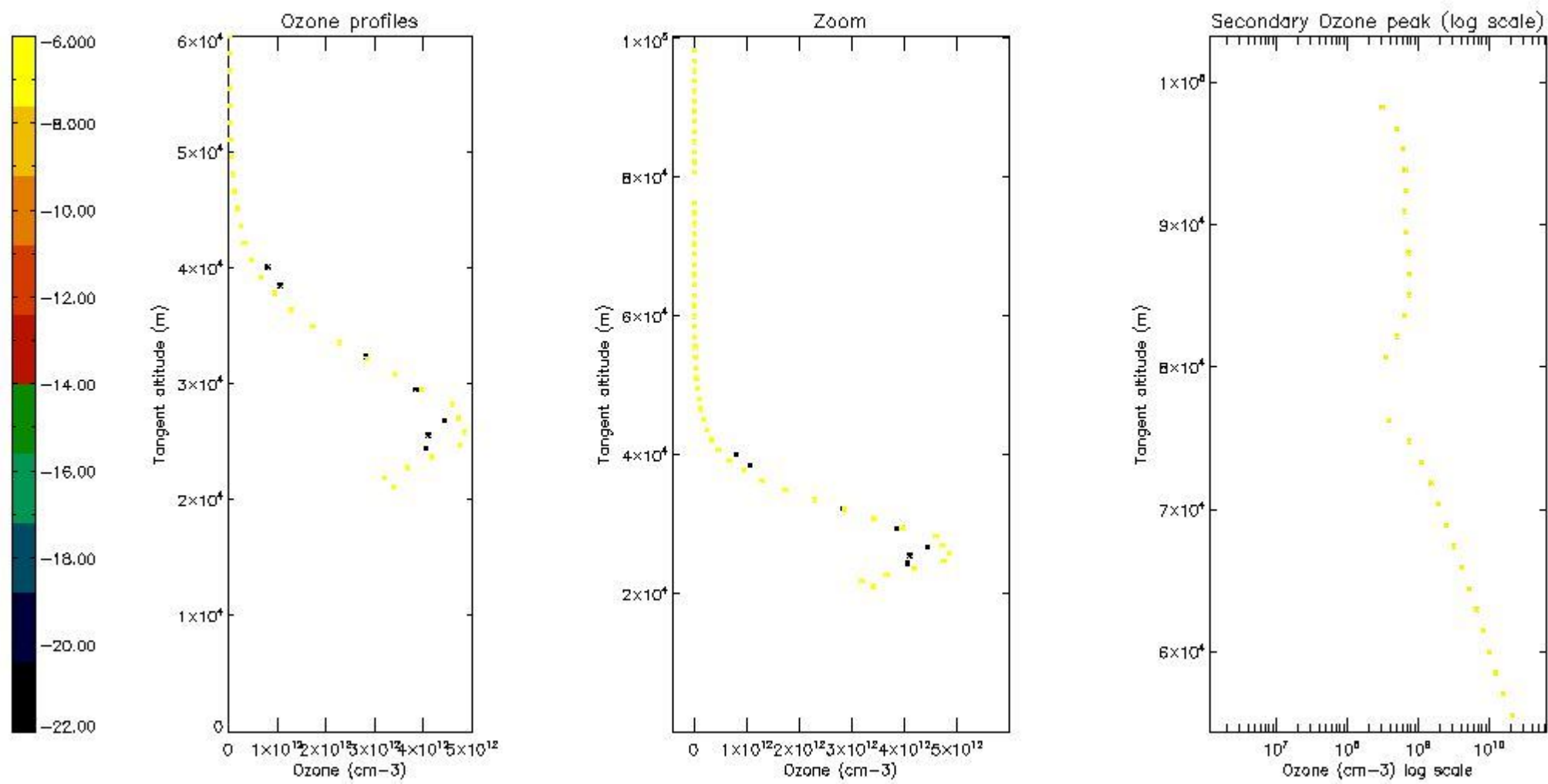
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



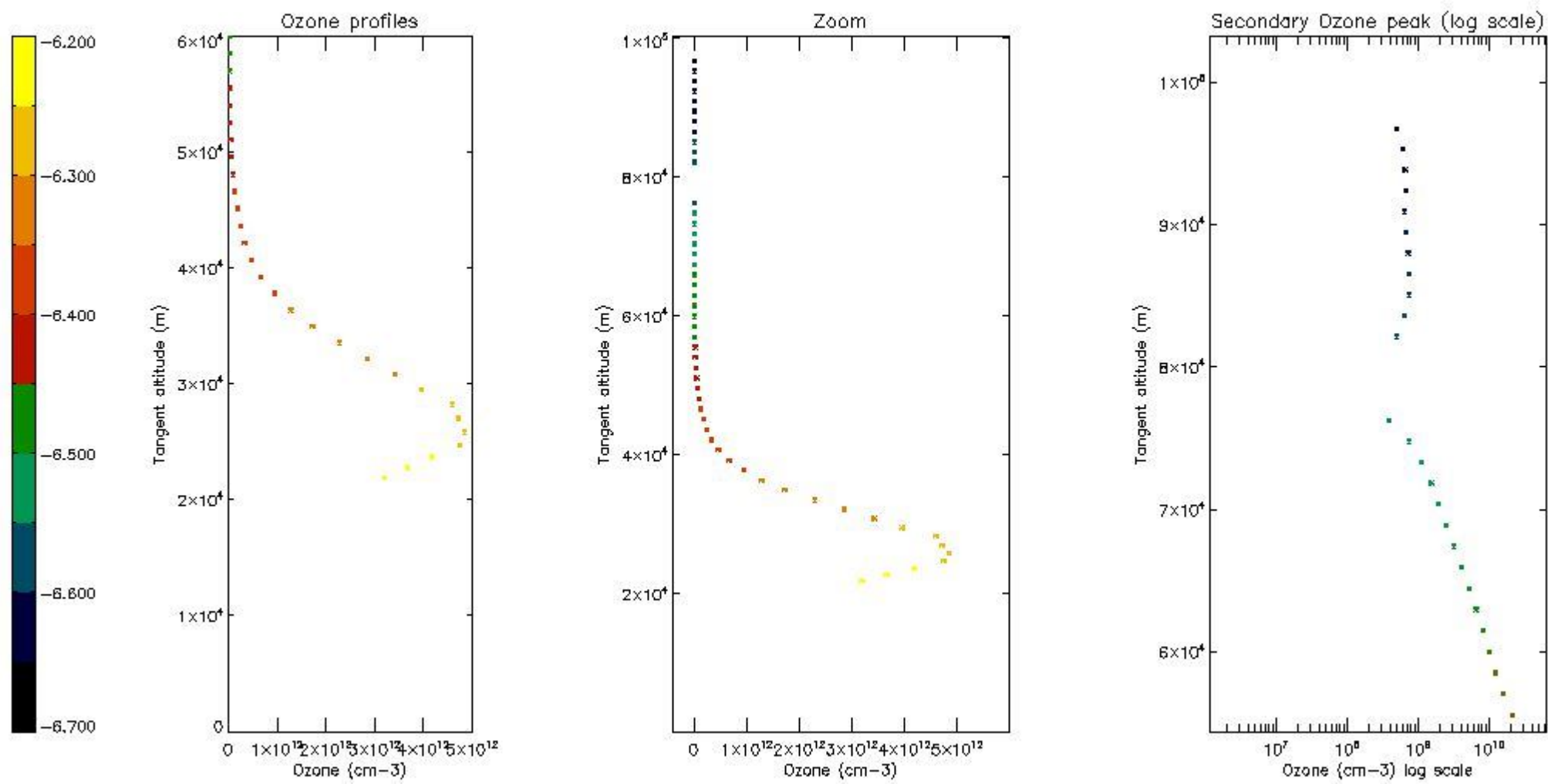
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



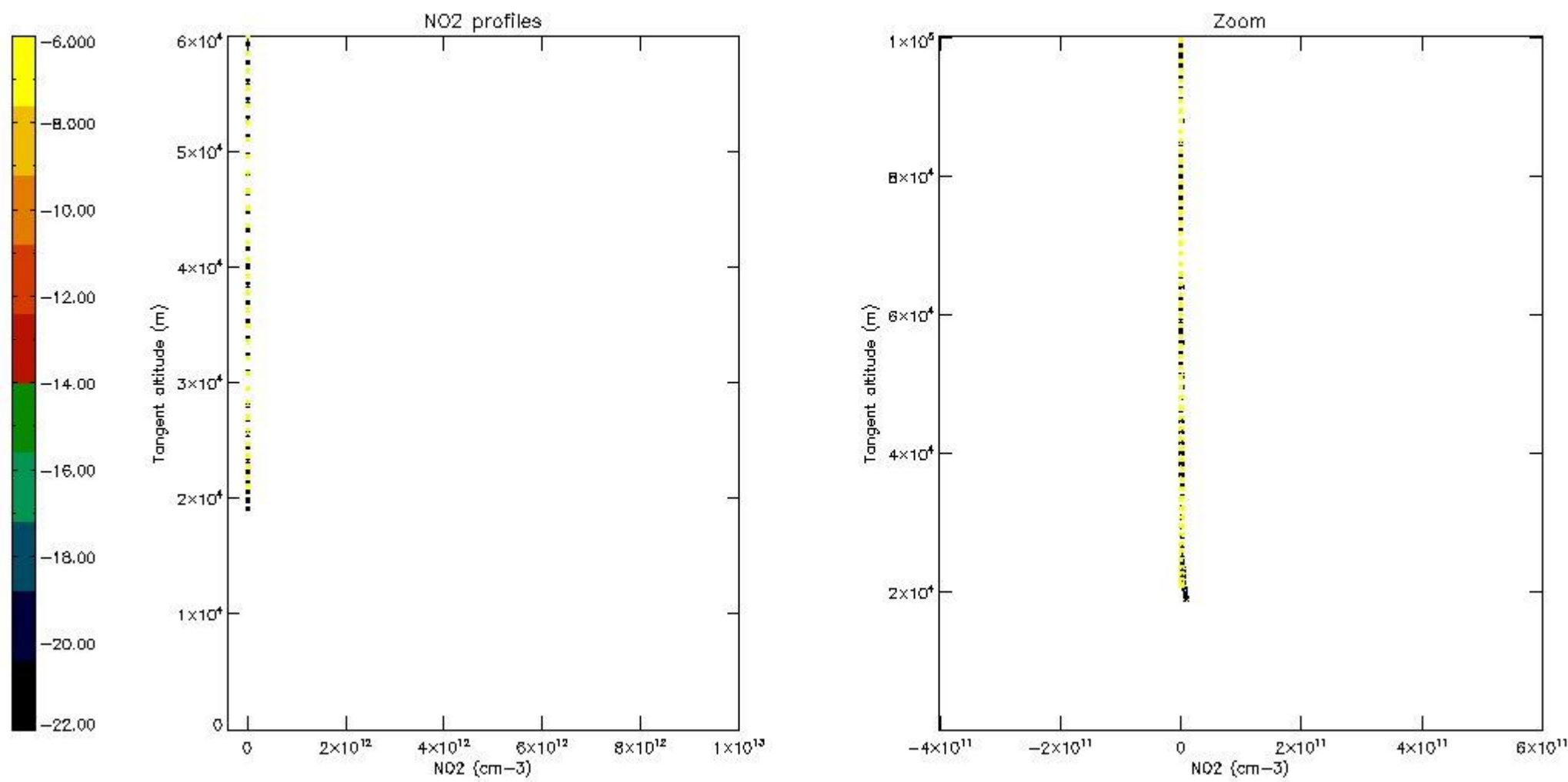
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



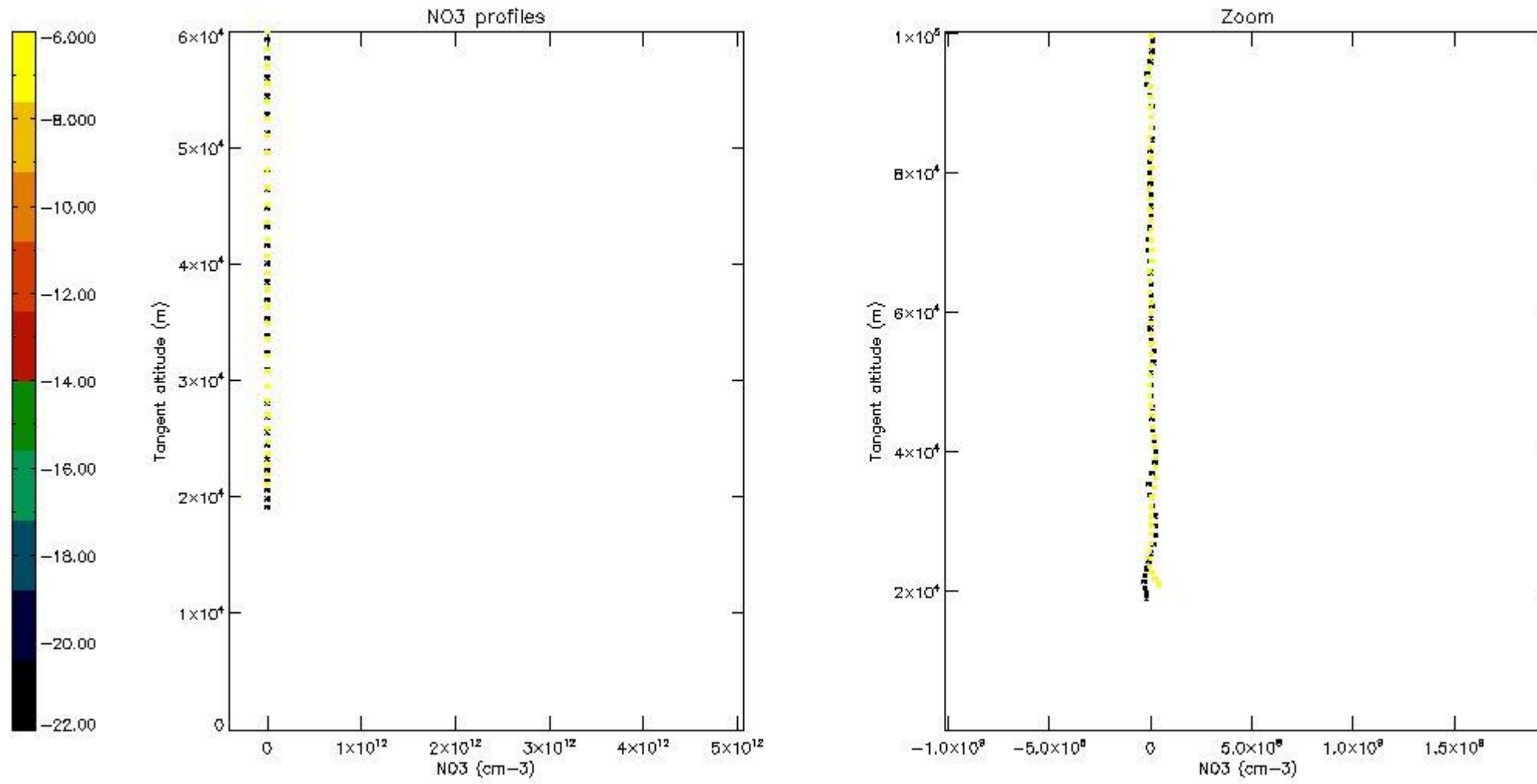
5.6 Plot NO₂ profiles for all STD (dark without errors)

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_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	07-MAY-2002 00:00:56
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	07-MAY-2002 00:00:56
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	07-MAY-2002 00:00:56

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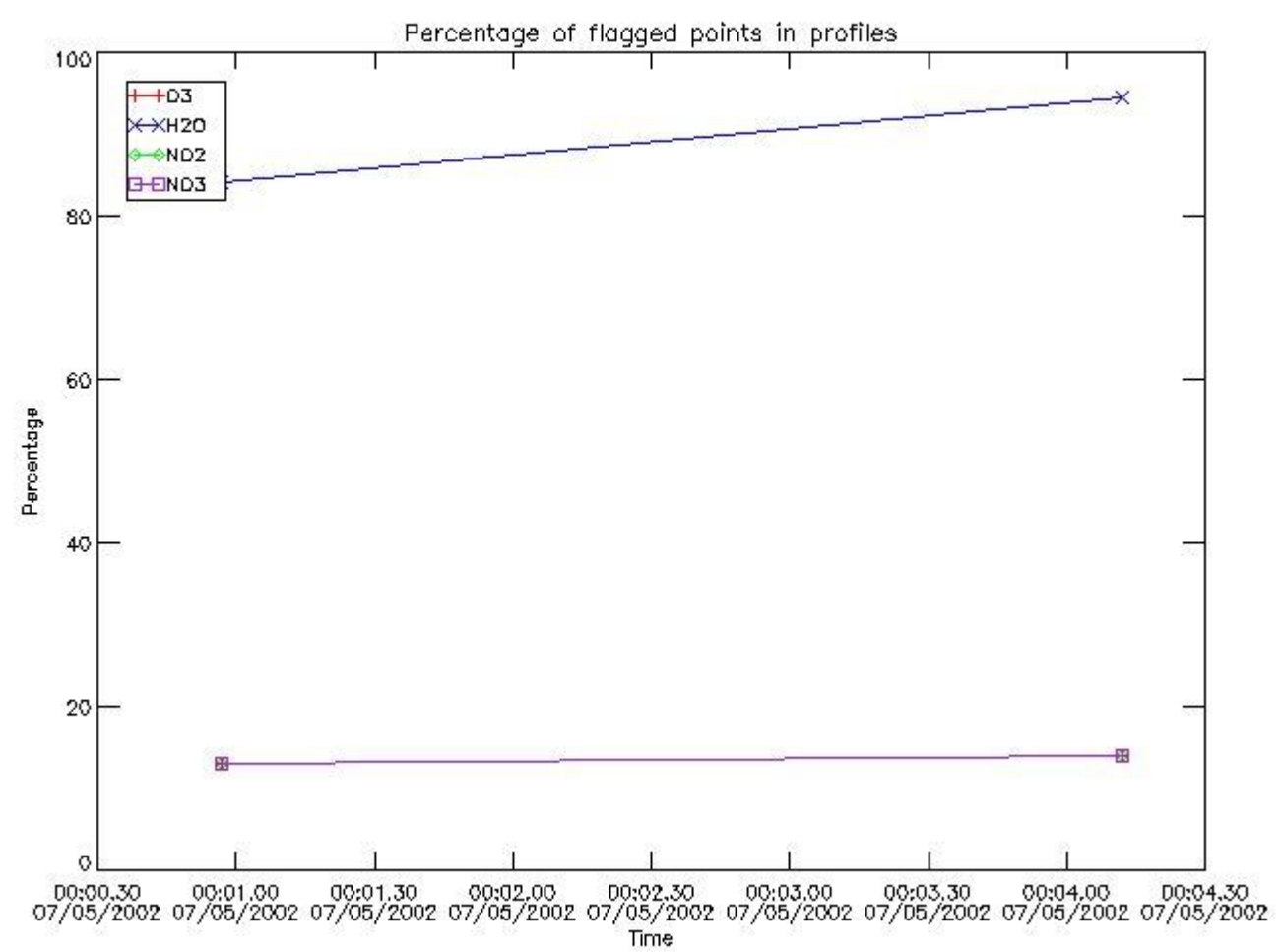
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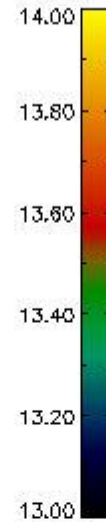
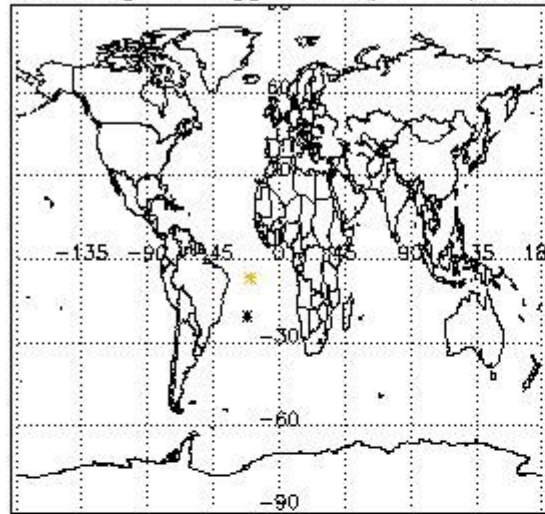
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

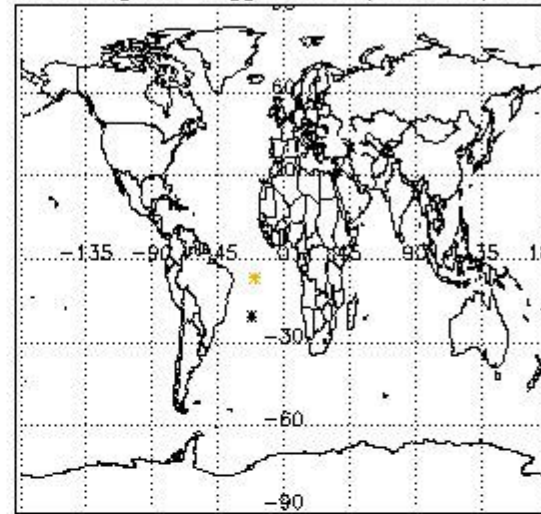


3.2 Plot quality information per product (world map)

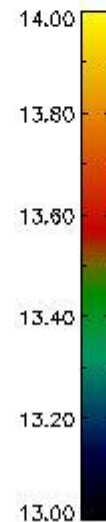
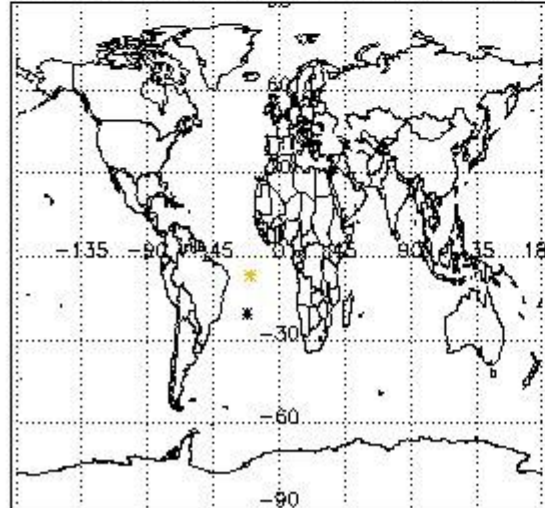
Percentage of flagged data per O3 profile



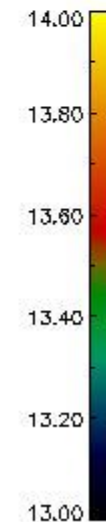
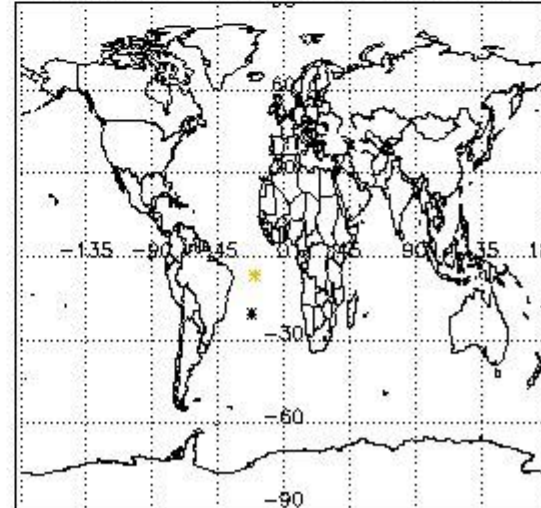
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

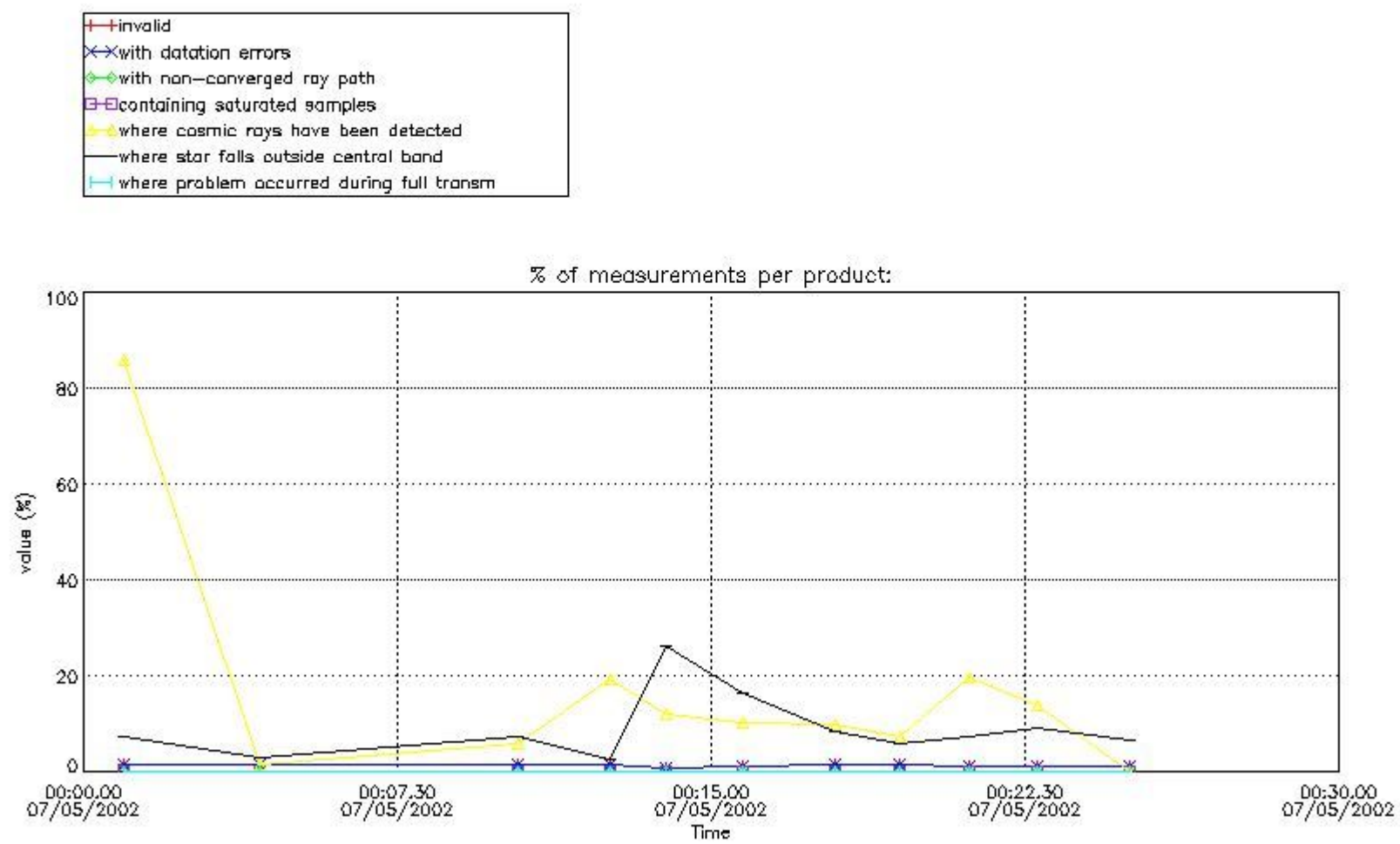


4. Level 1 quality information per product

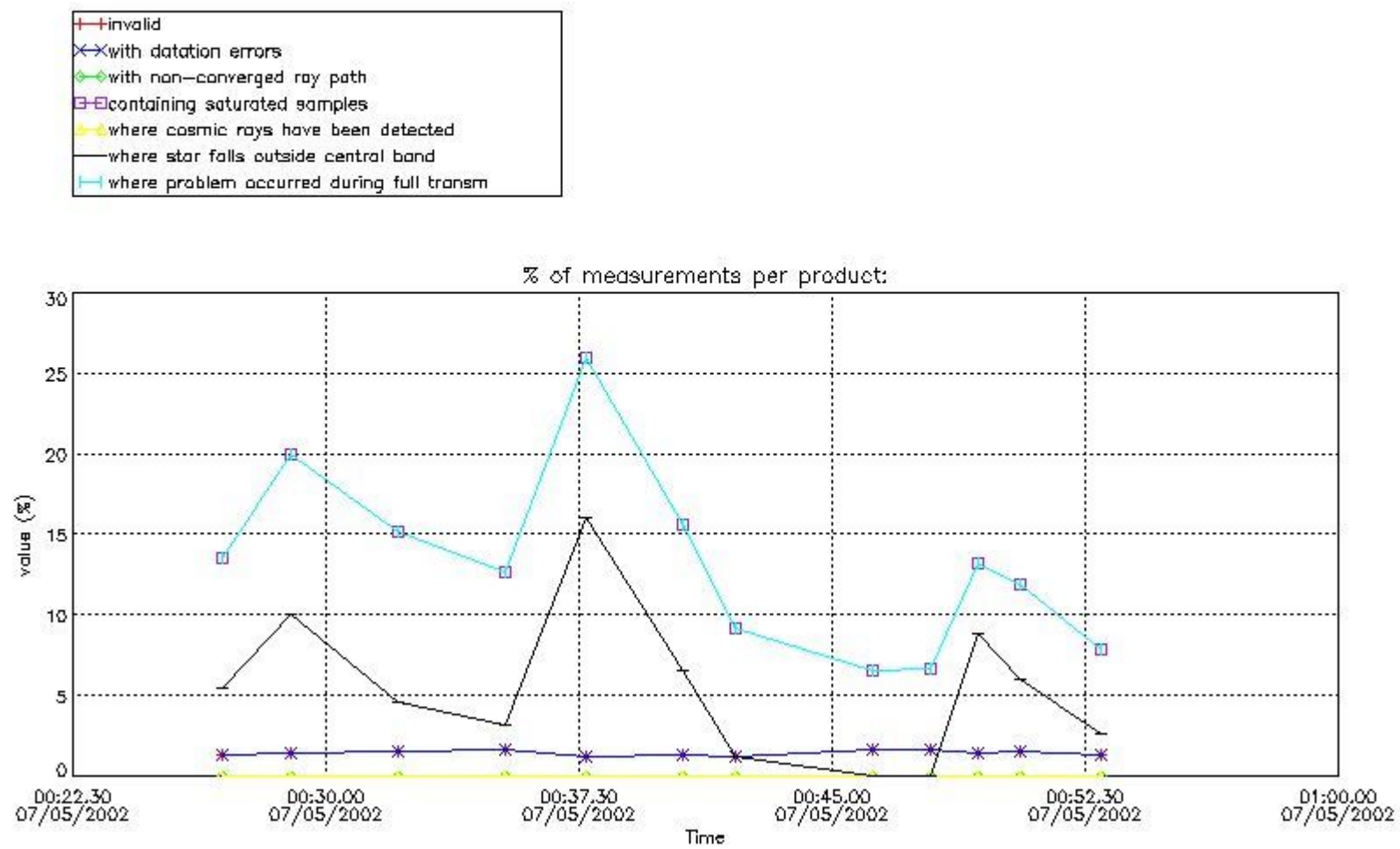
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



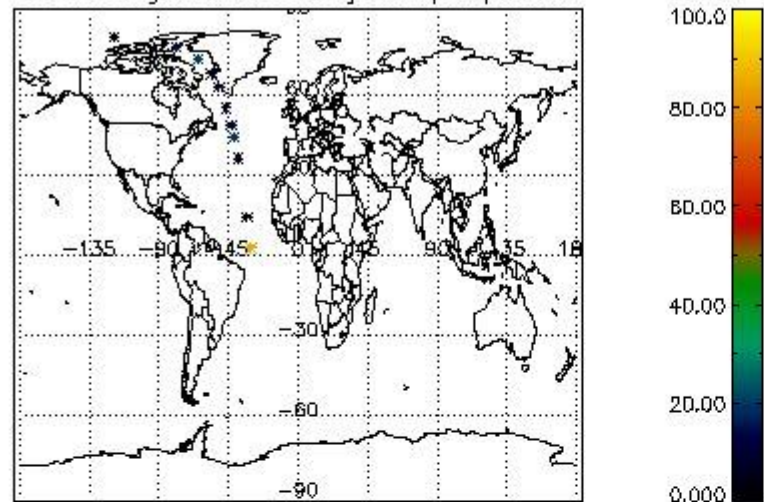
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



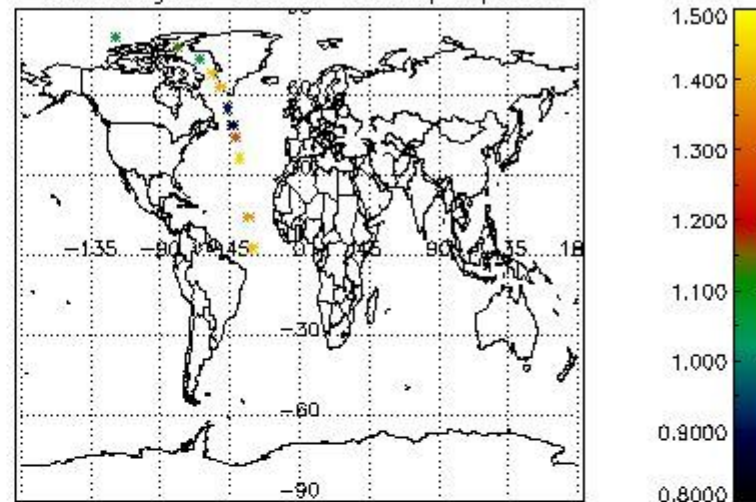
4.2 Plot quality information per product coming from level 1b processing (world map)

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

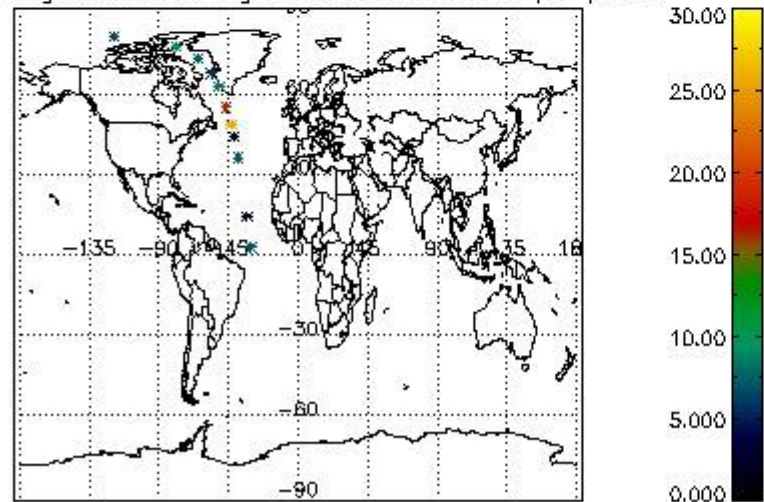
Percentage of cosmic ray hits per profile



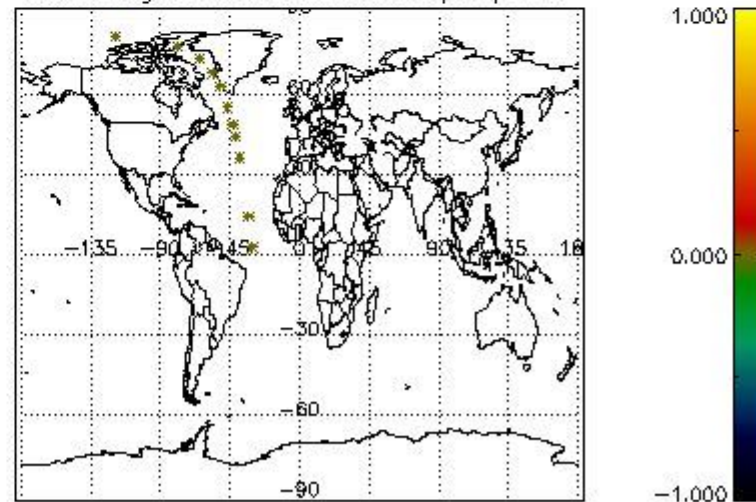
Percentage of datation errors per profile



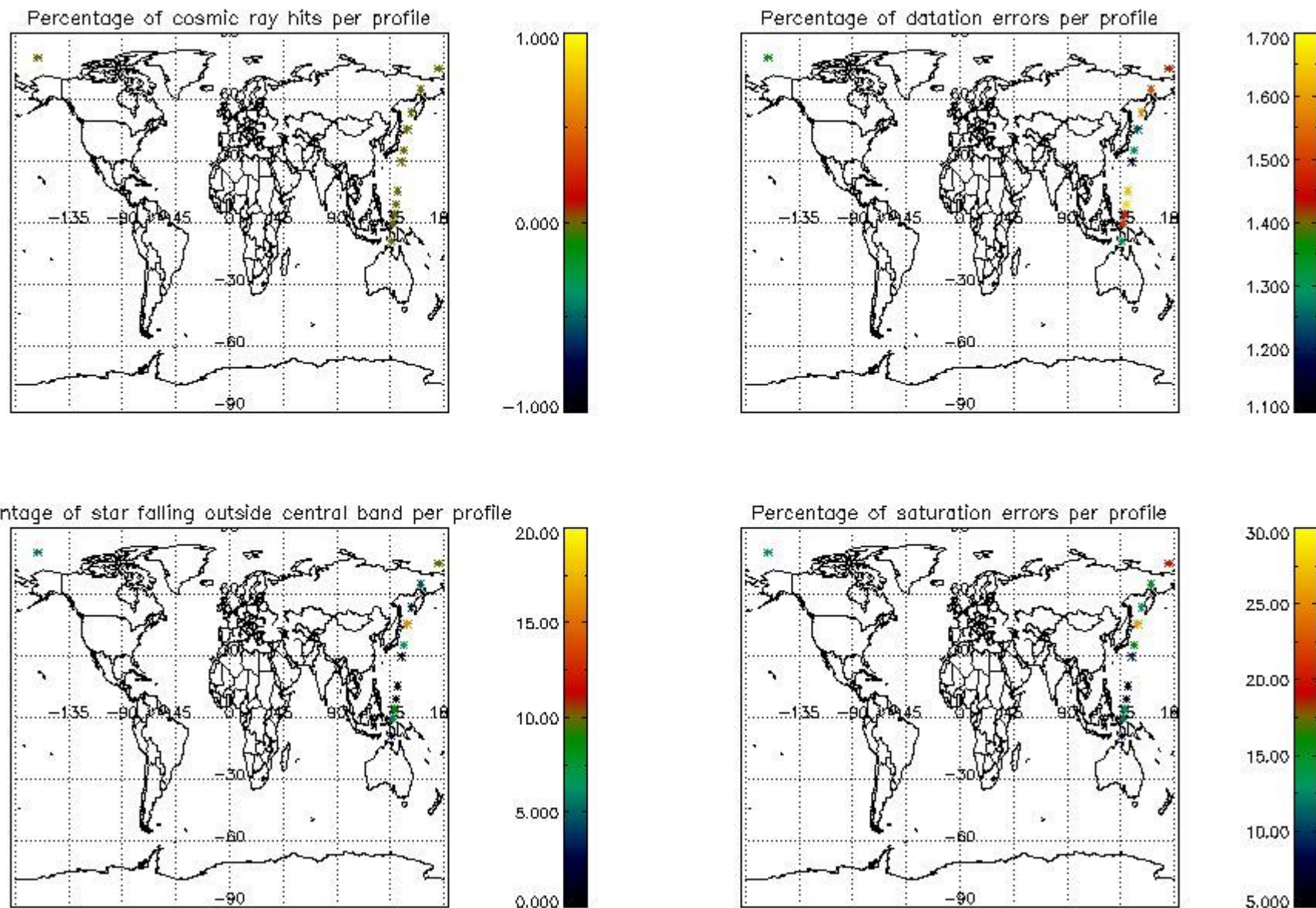
Percentage of star falling outside central band per profile



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

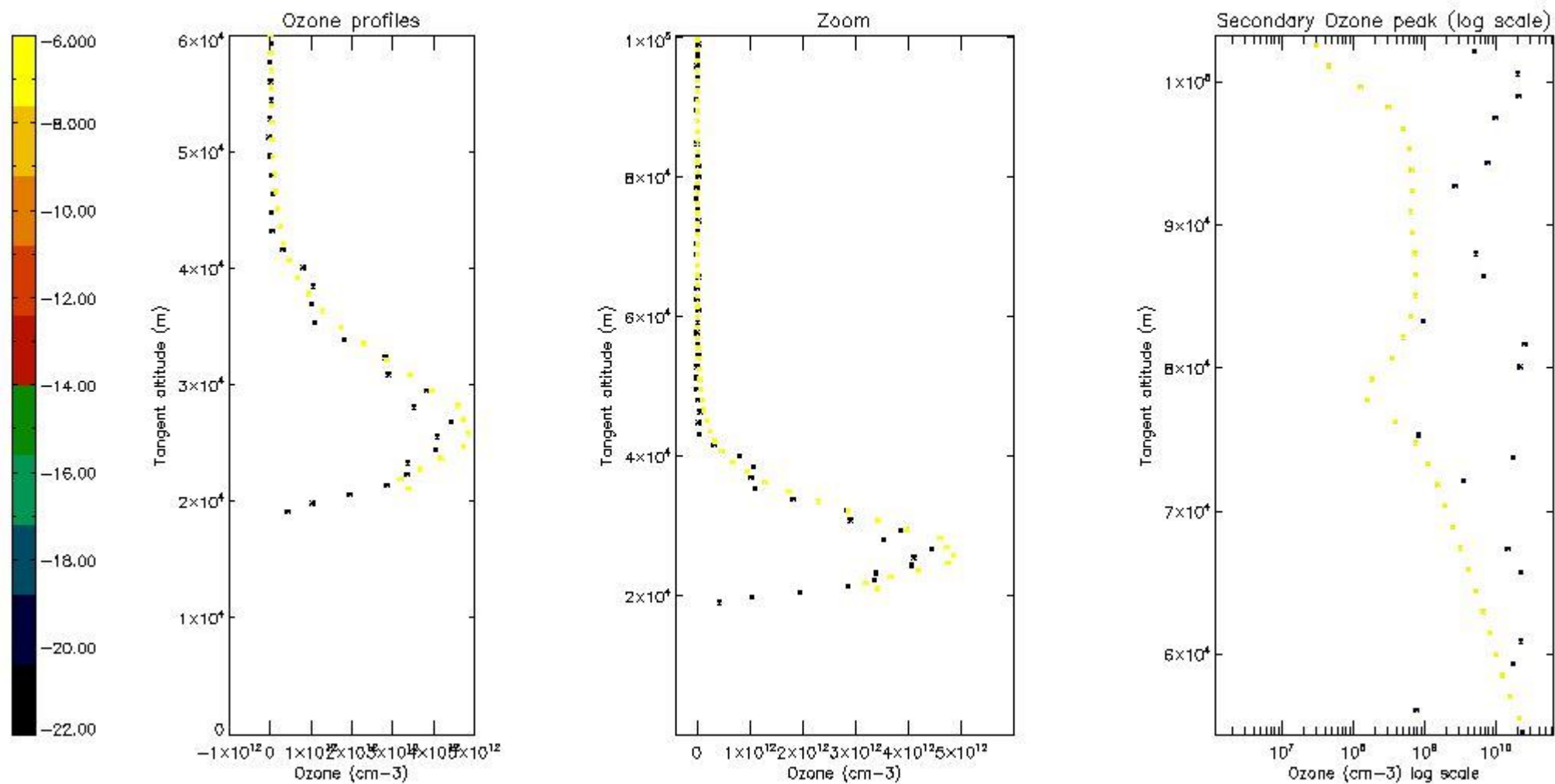
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	8
STD < 20	5

STD < 10	4
STD < 5	3

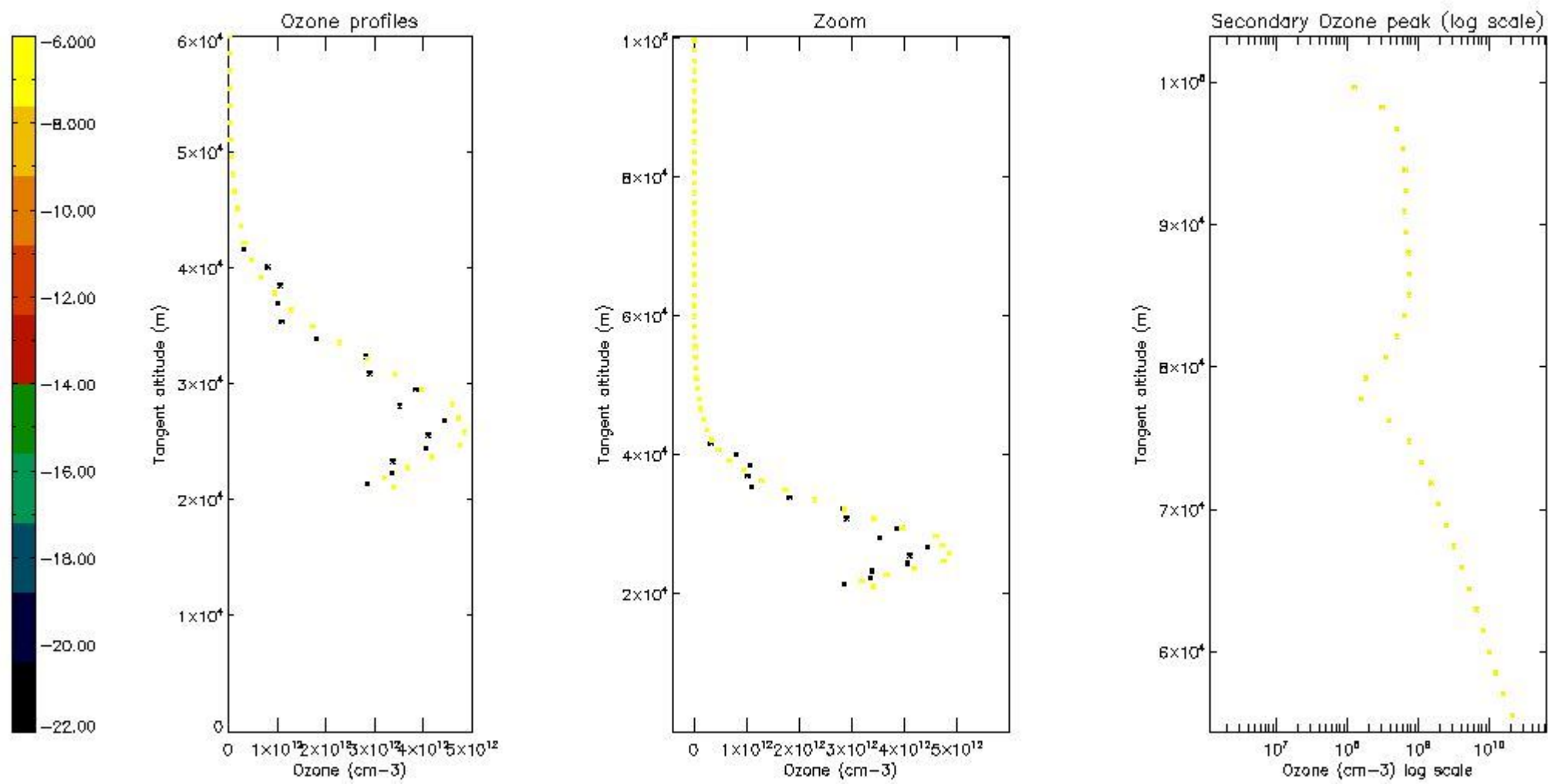
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



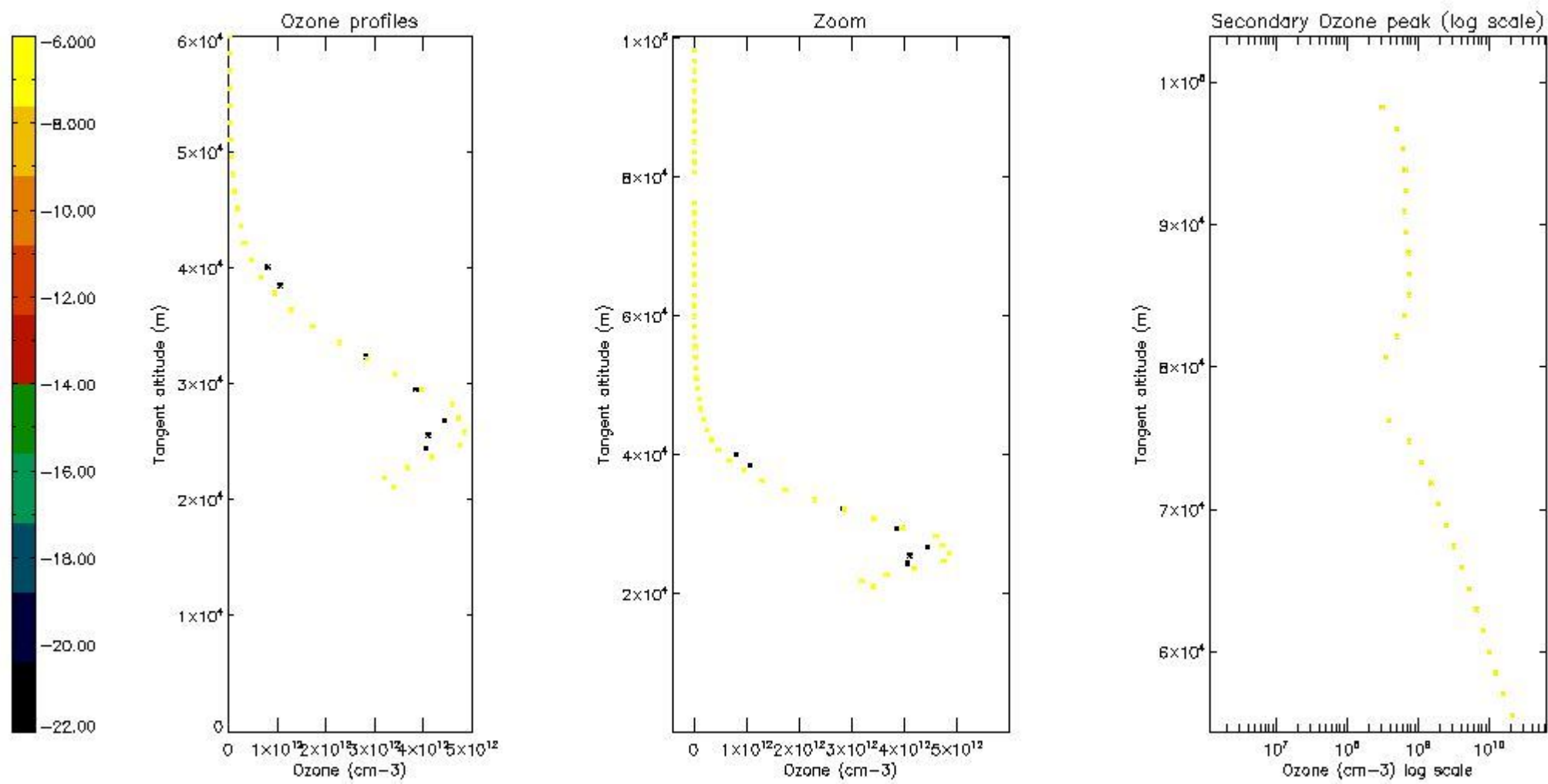
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



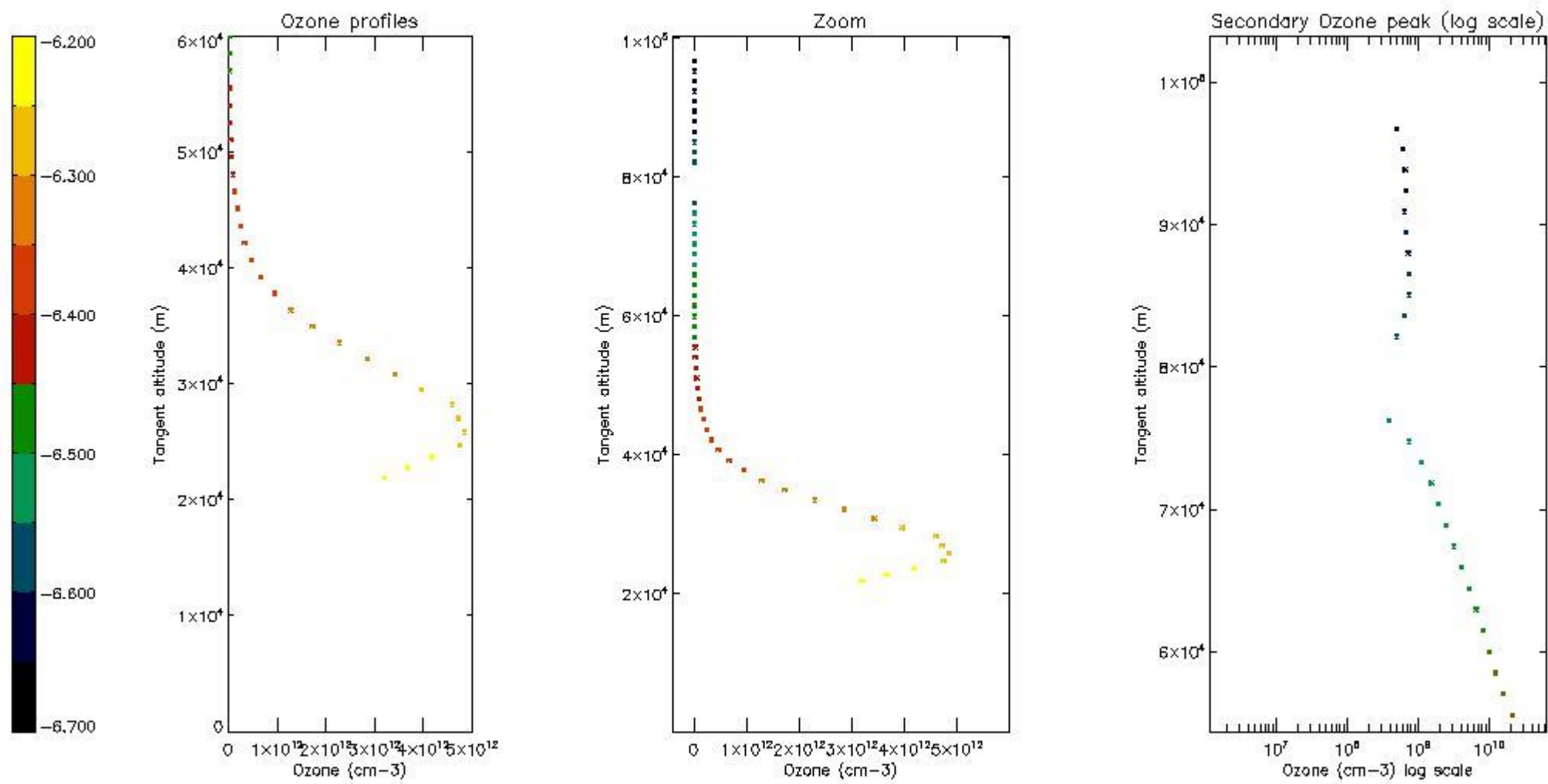
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



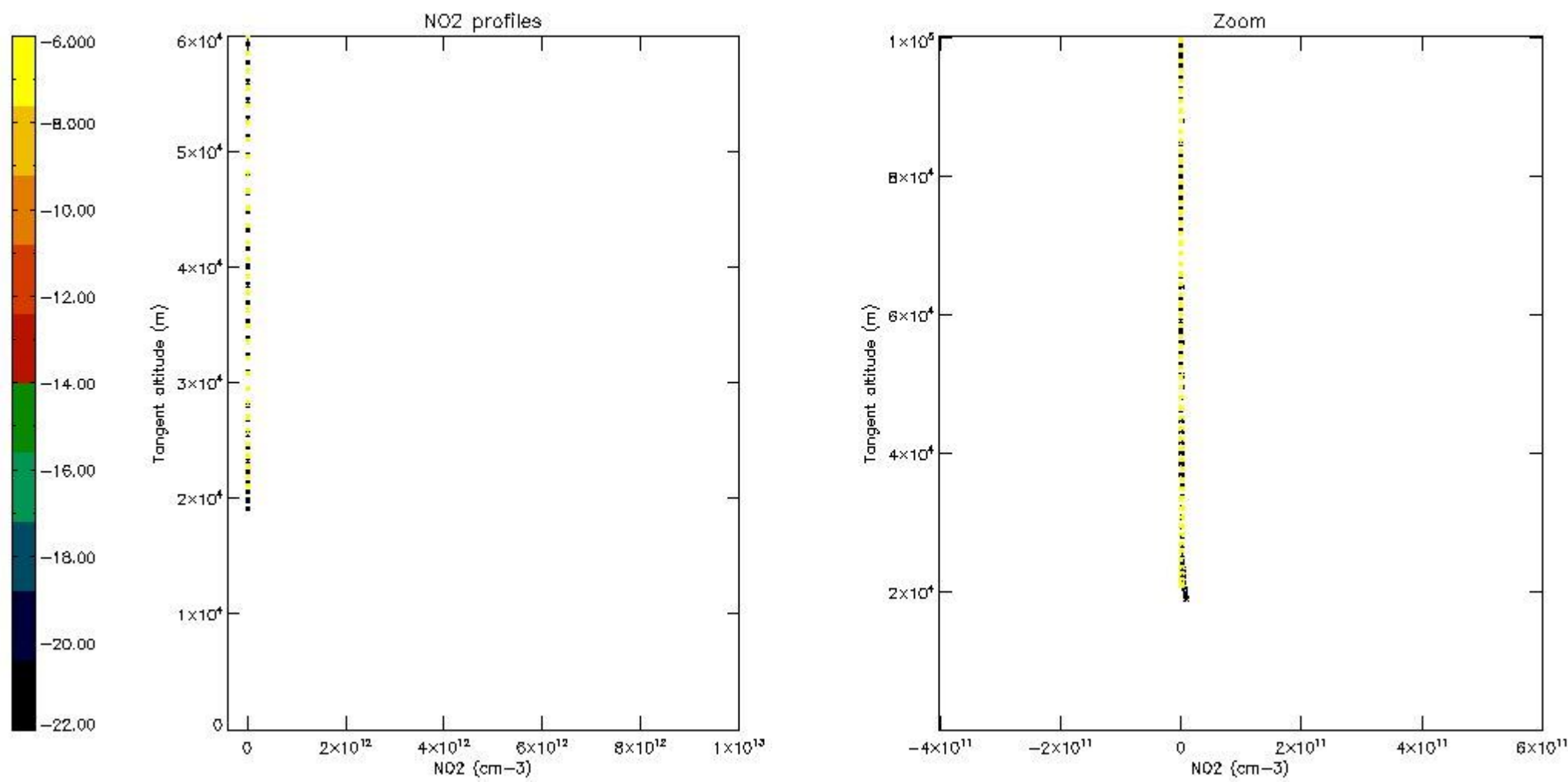
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



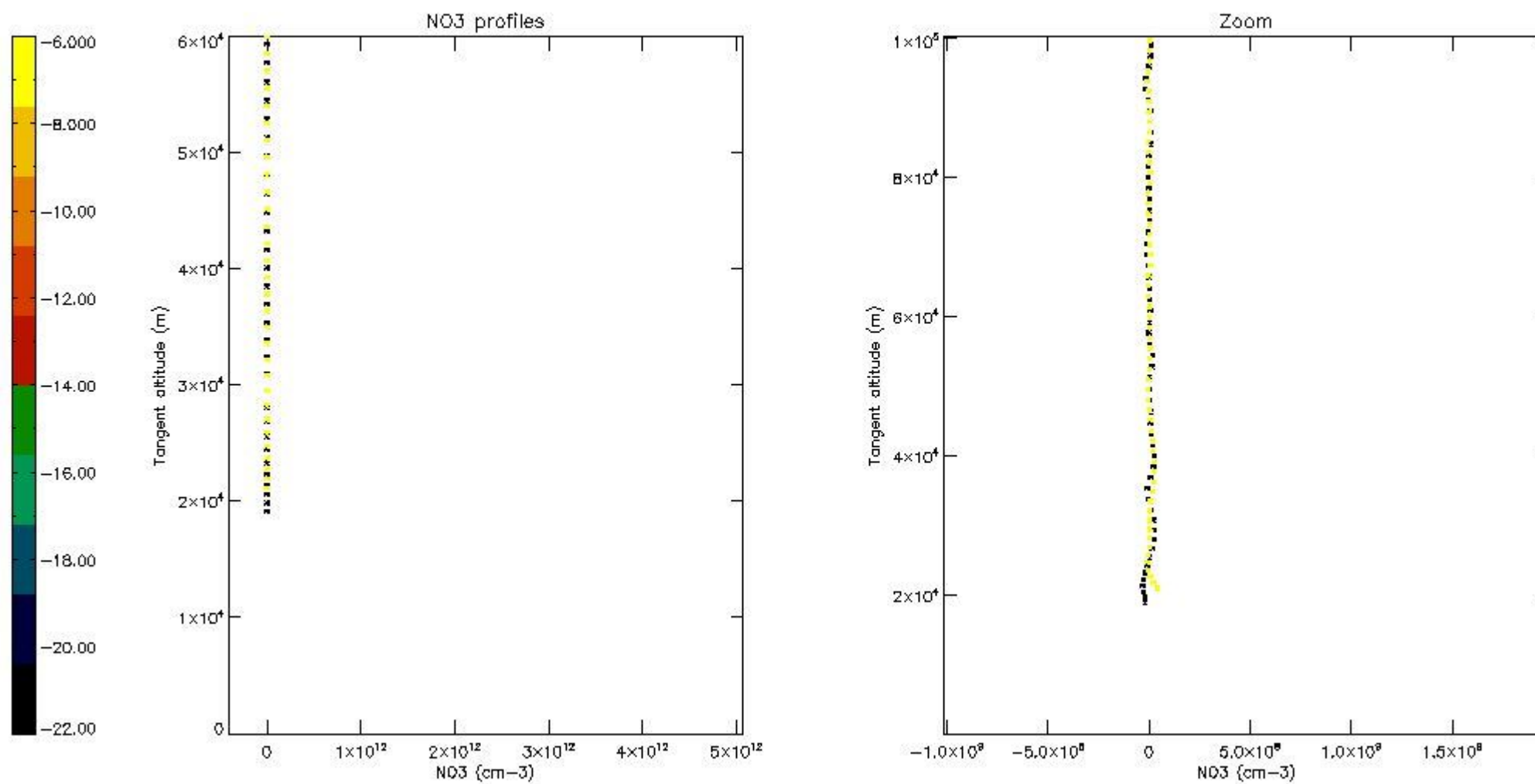
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

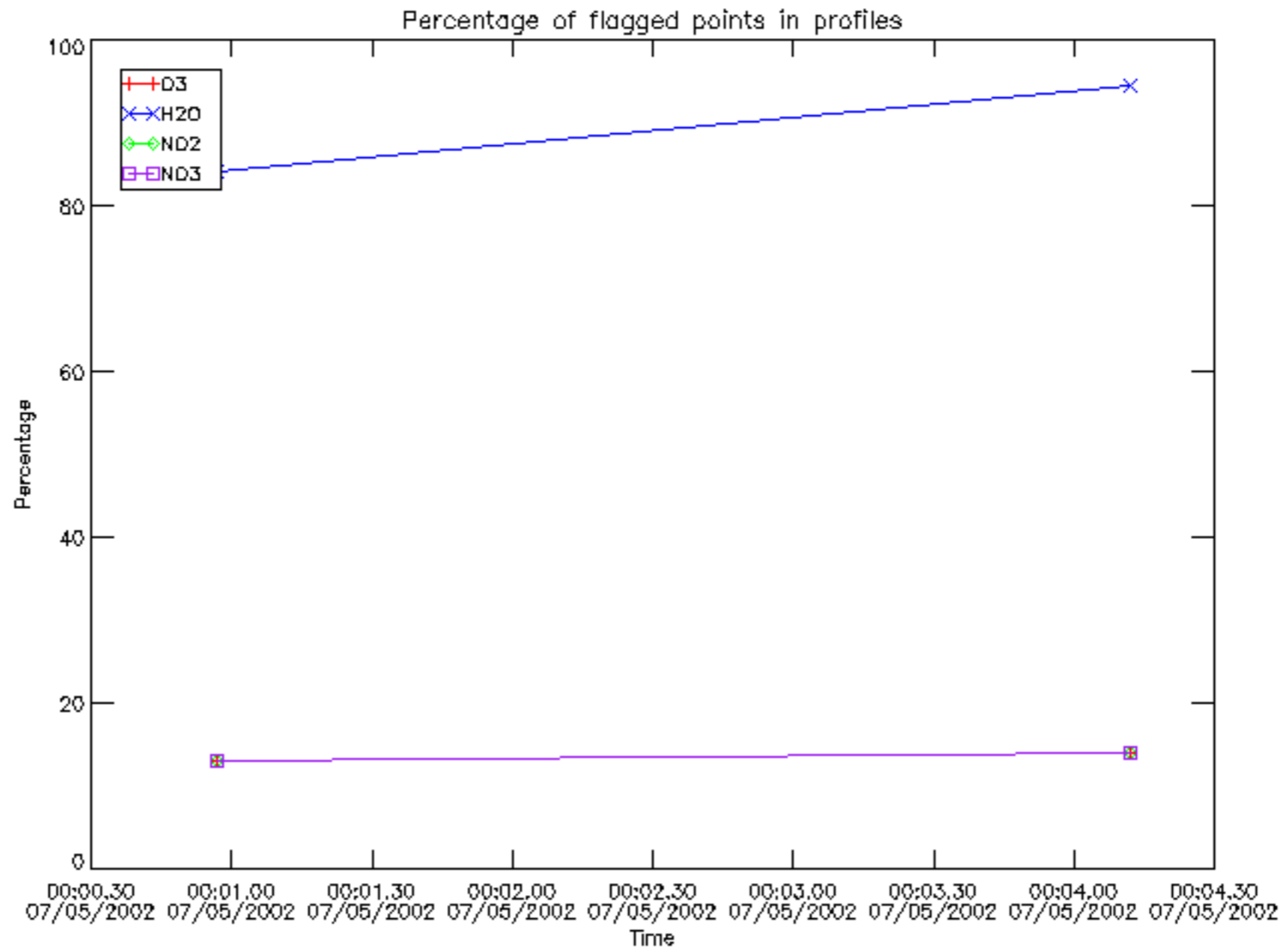
The colorbar represents the latitude.



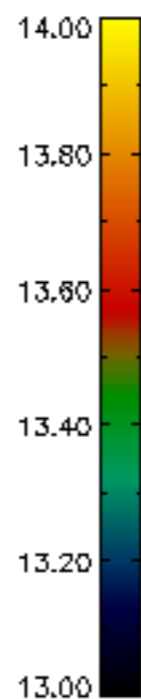
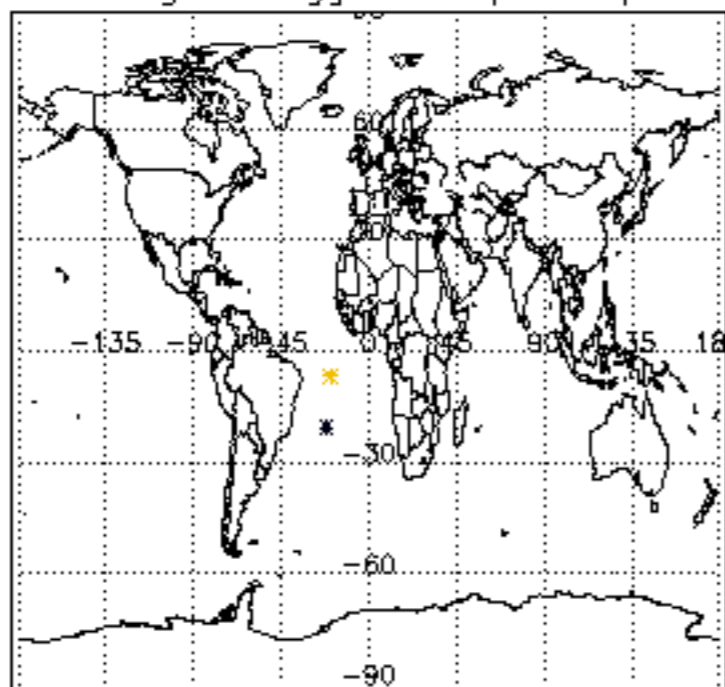
6. Auxiliary Data Files used for the production reported in section 2

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.

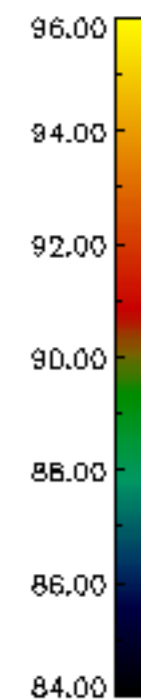
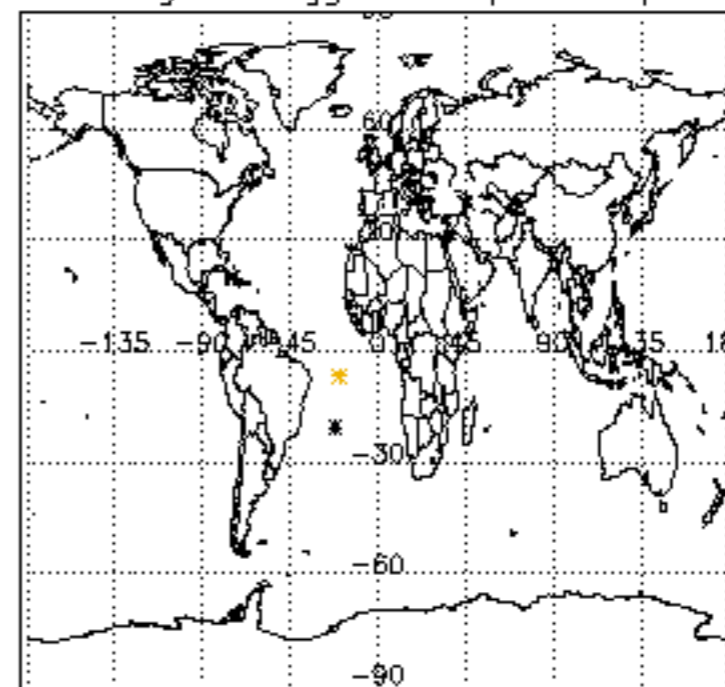
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	07-MAY-2002 00:00:56
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	07-MAY-2002 00:00:56
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	07-MAY-2002 00:00:56



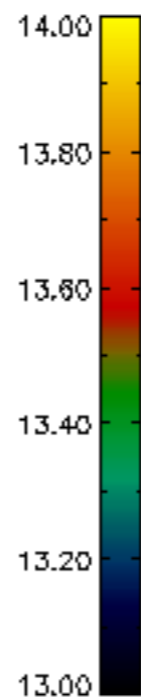
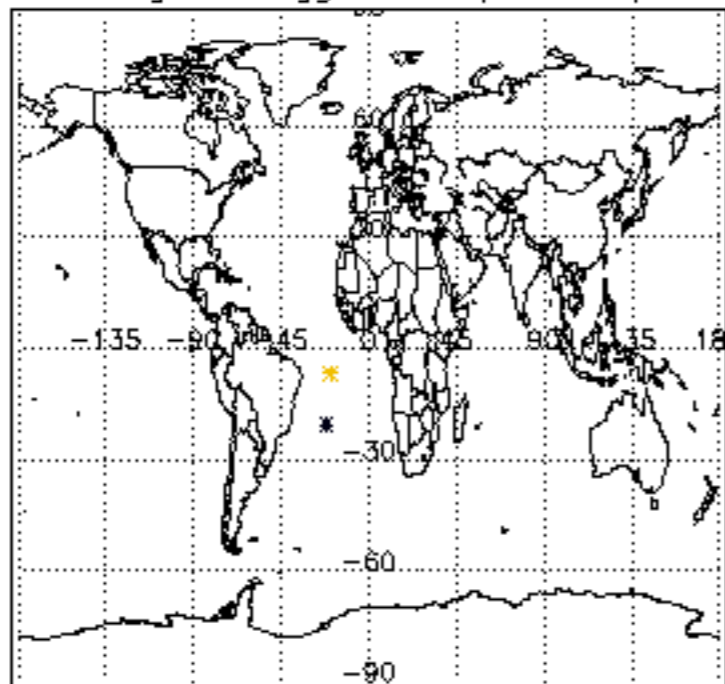
Percentage of flagged data per D3 profile



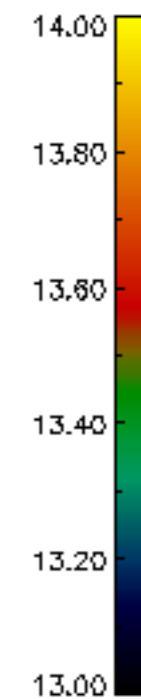
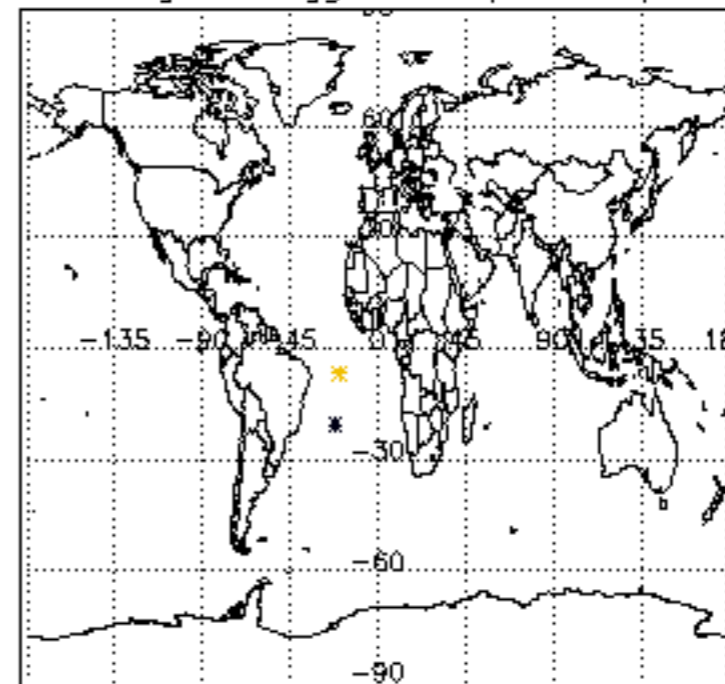
Percentage of flagged data per H2O profile

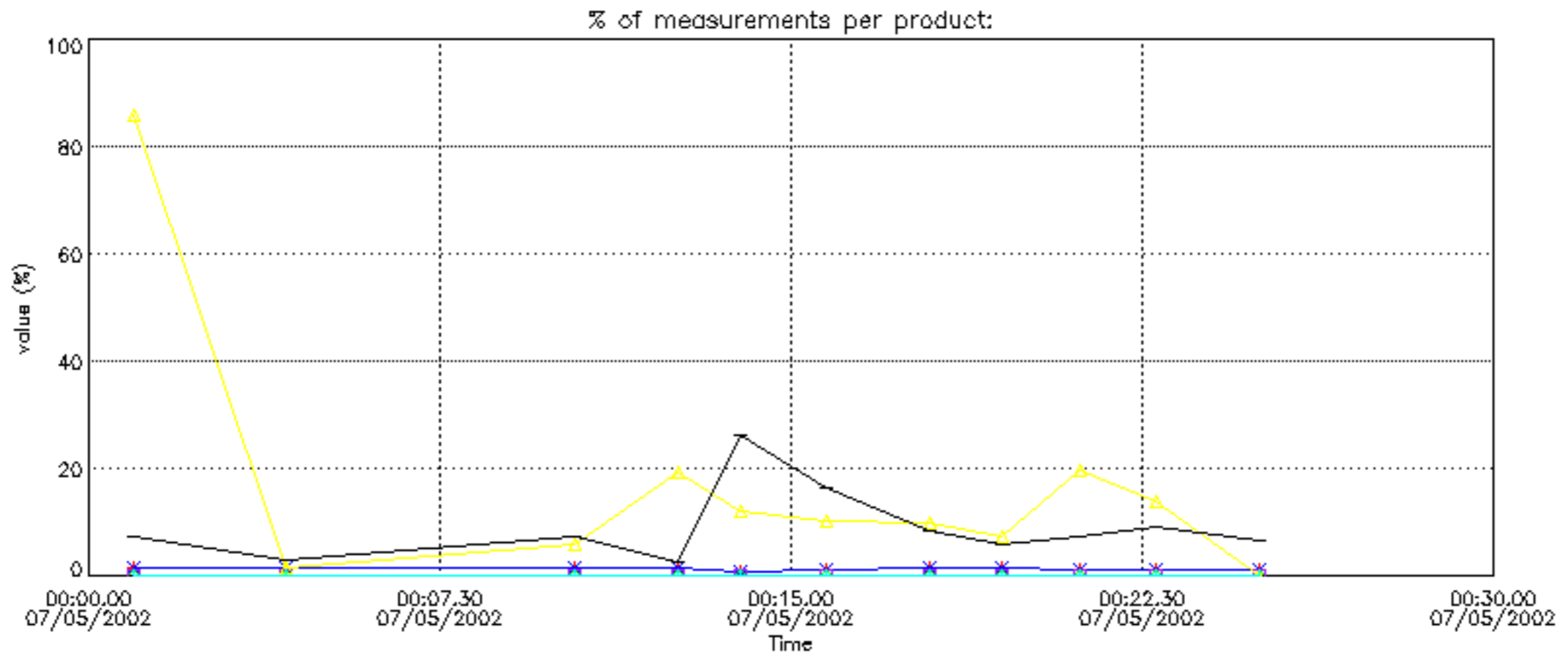


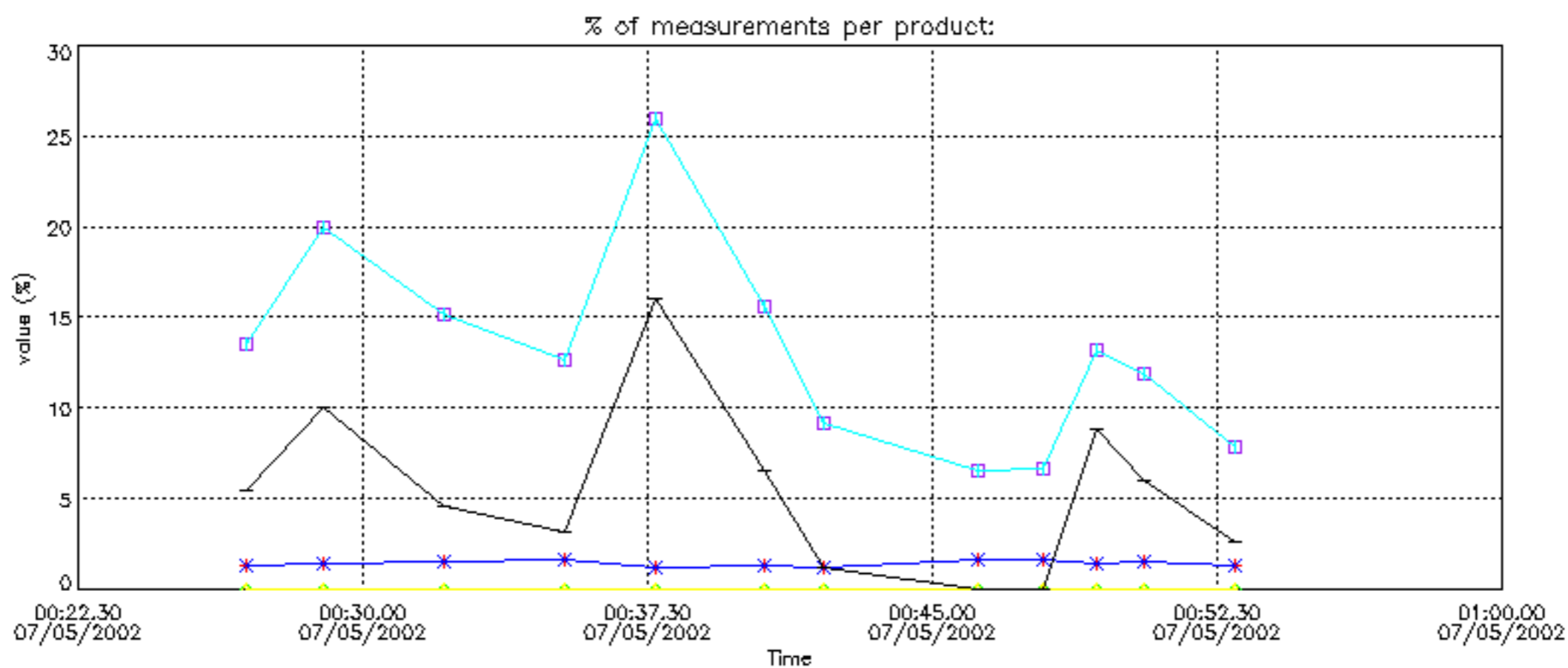
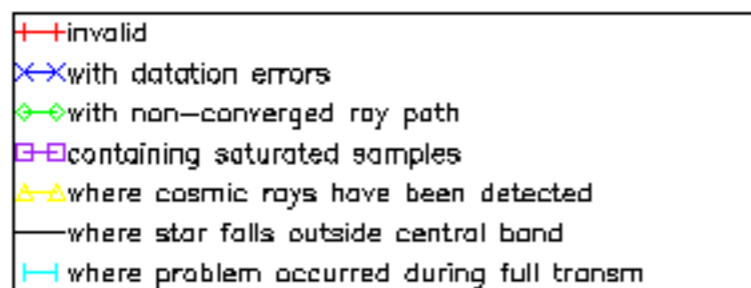
Percentage of flagged data per NO2 profile



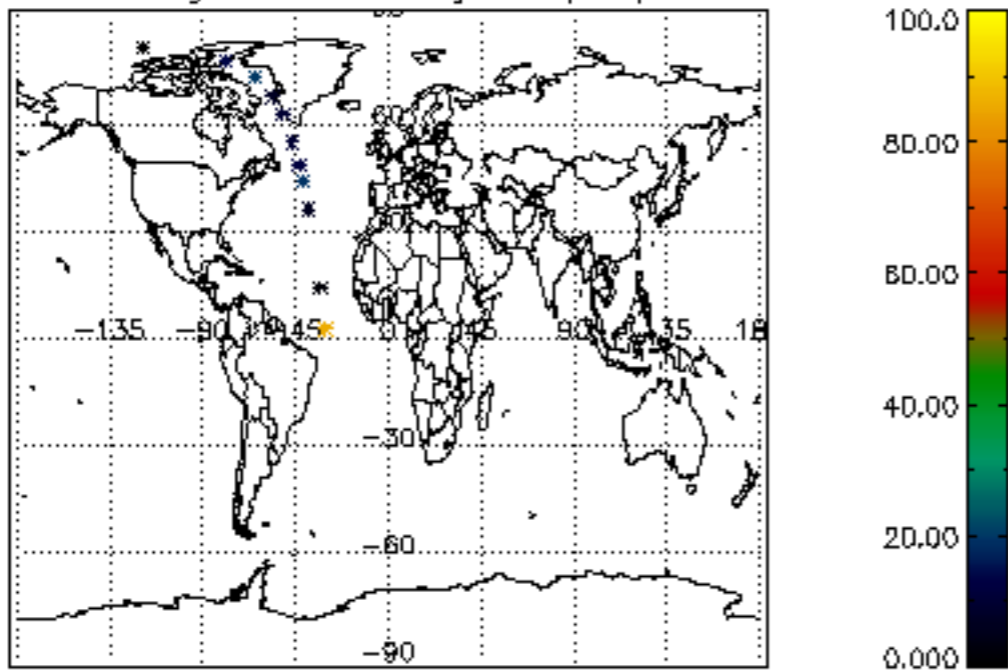
Percentage of flagged data per NO3 profile



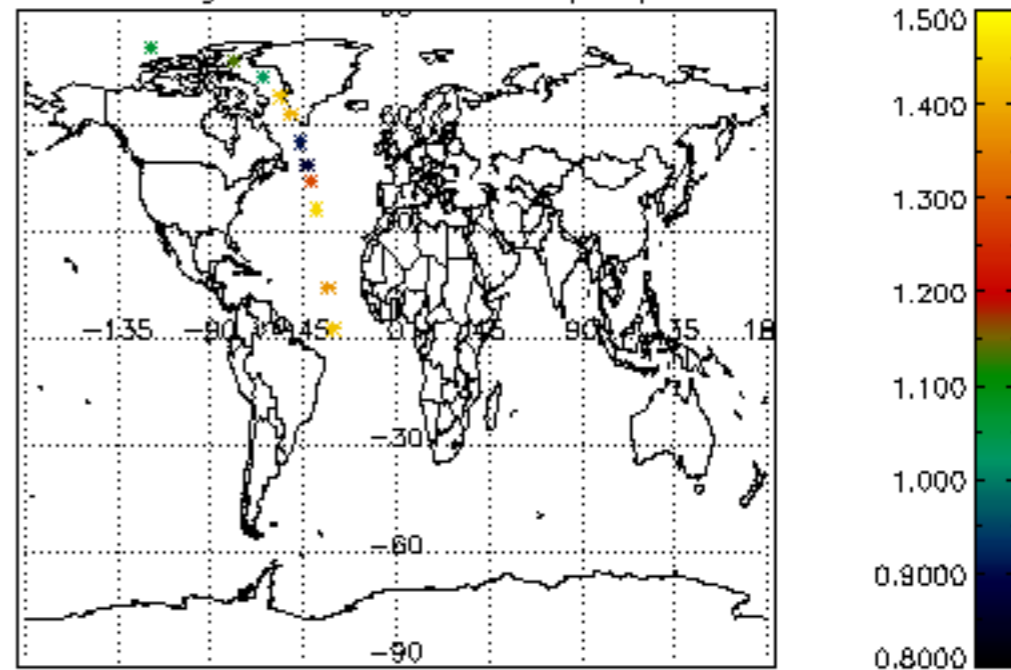




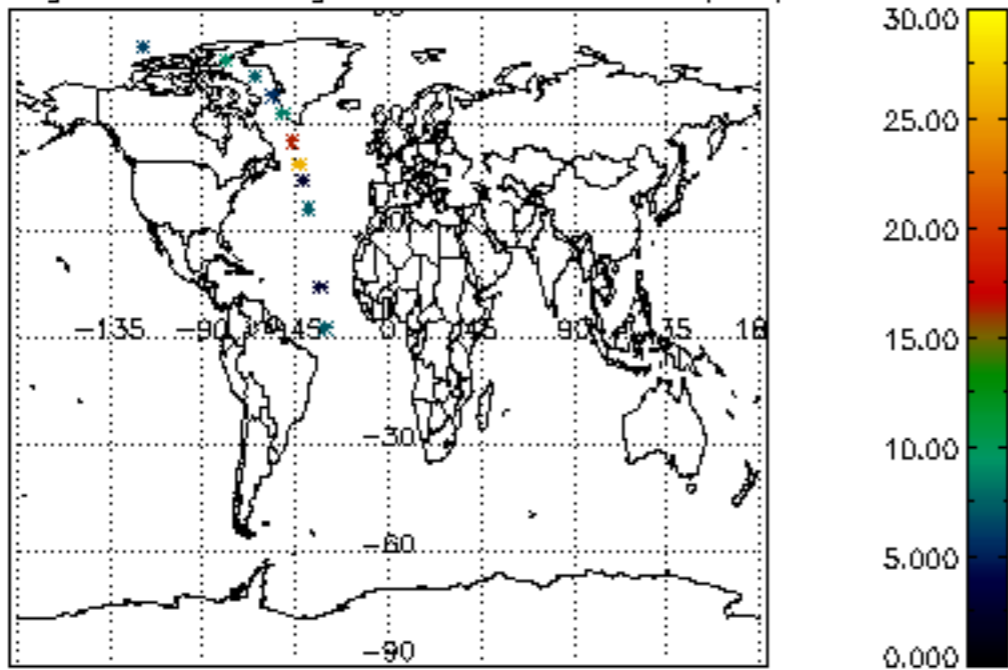
Percentage of cosmic ray hits per profile



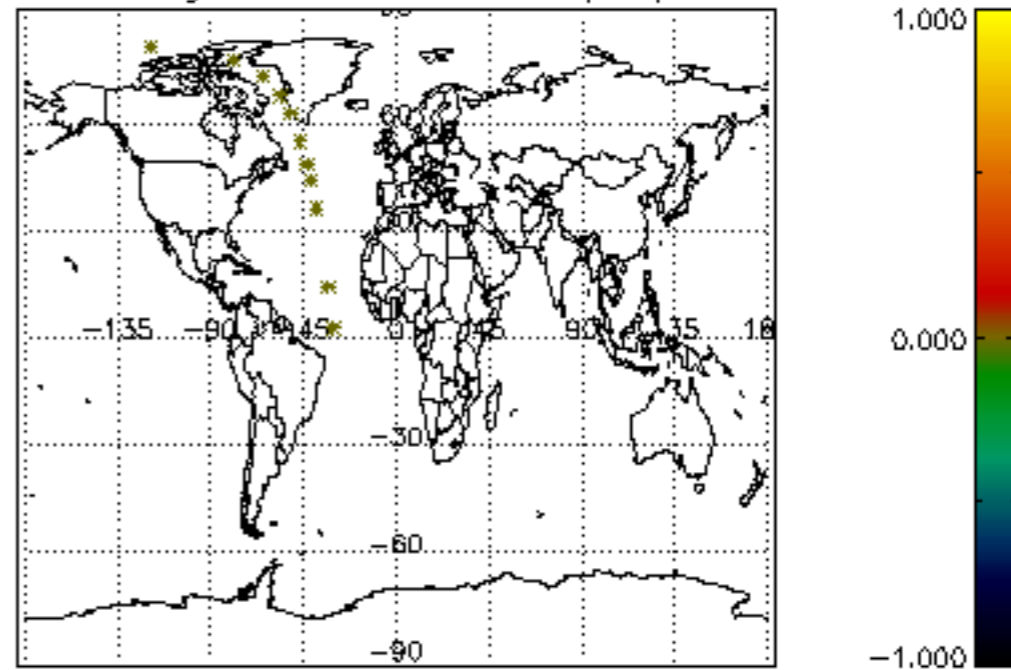
Percentage of datation errors per profile



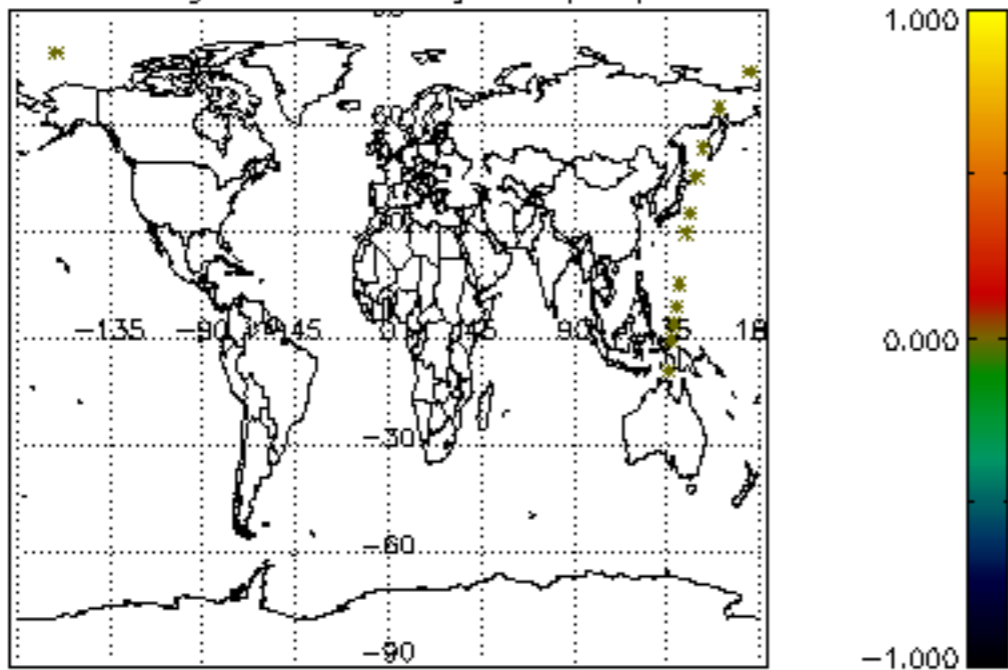
Percentage of star falling outside central band per profile



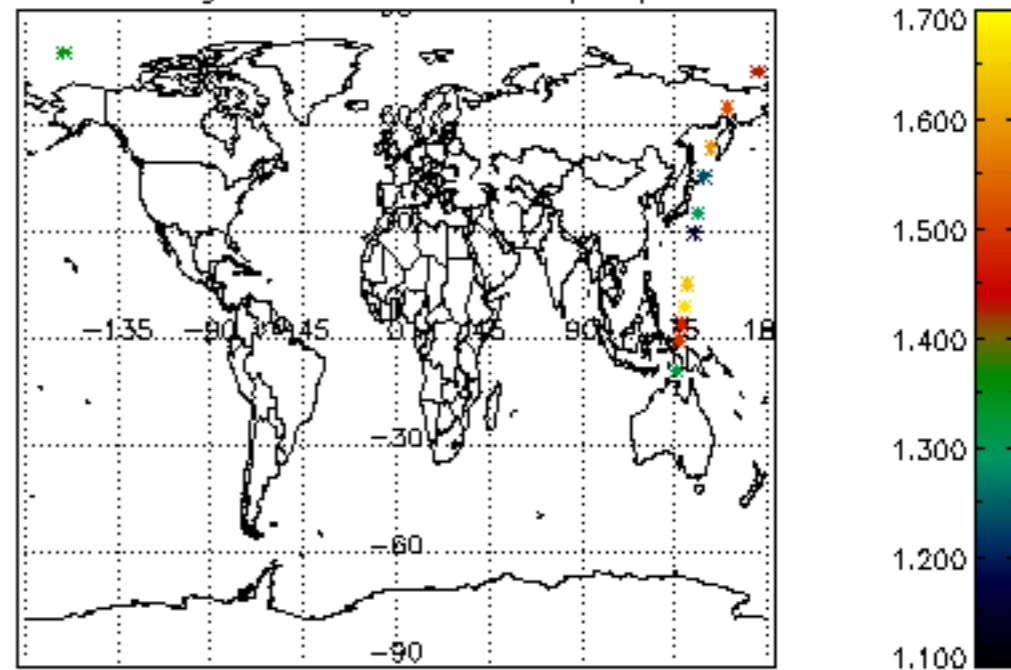
Percentage of saturation errors per profile



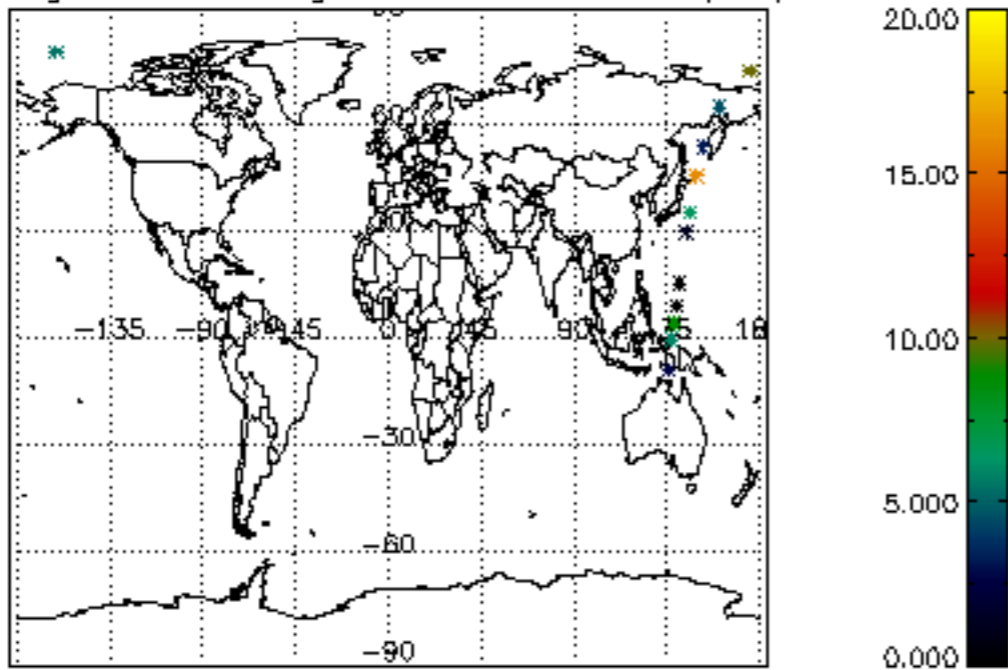
Percentage of cosmic ray hits per profile



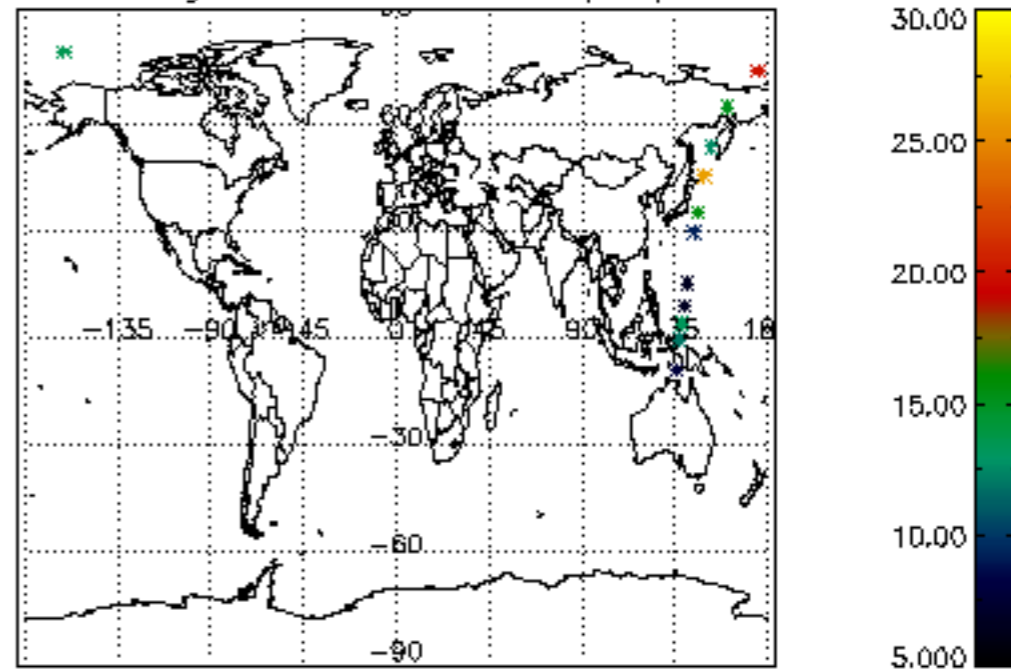
Percentage of datation errors per profile

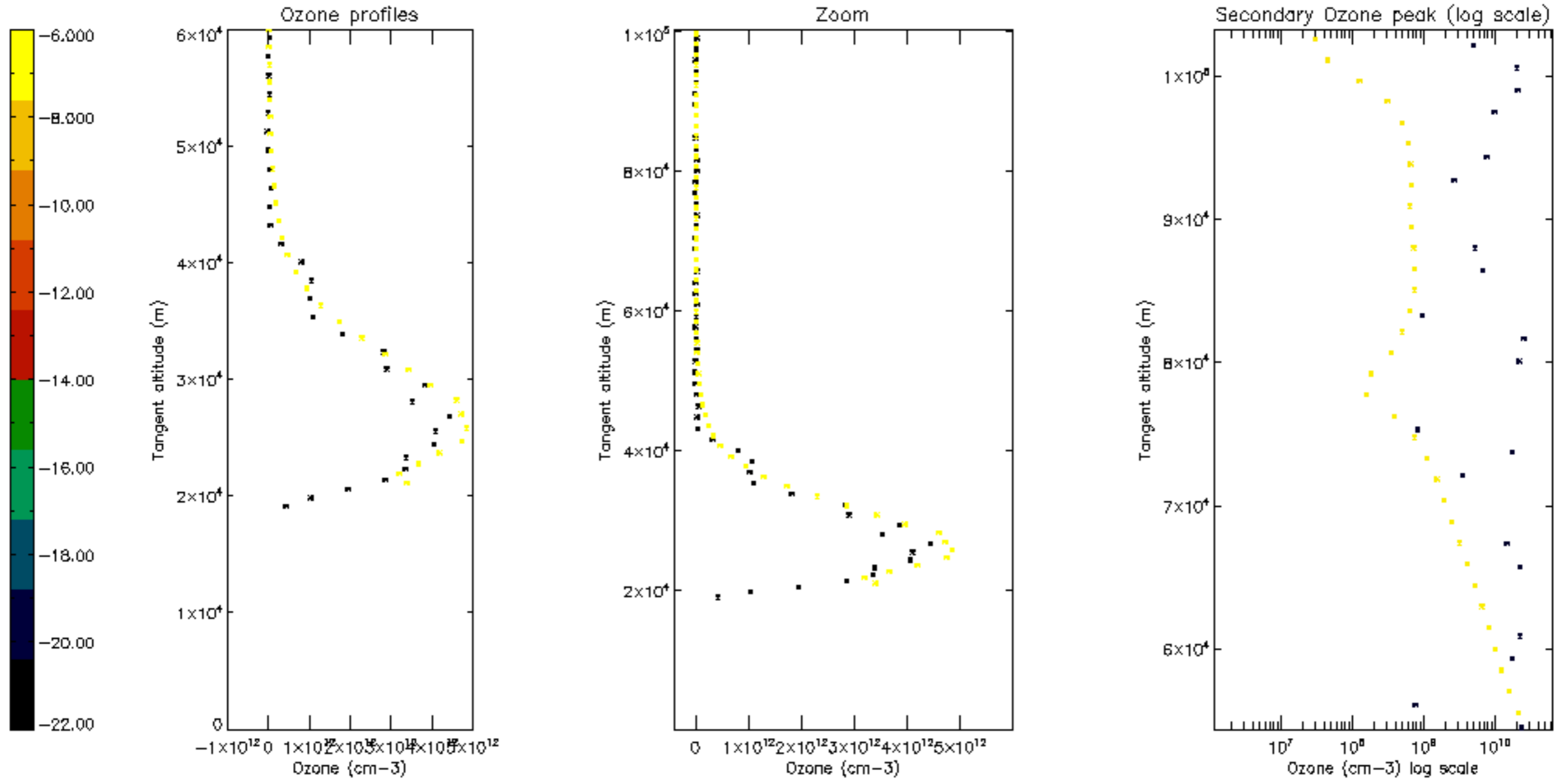


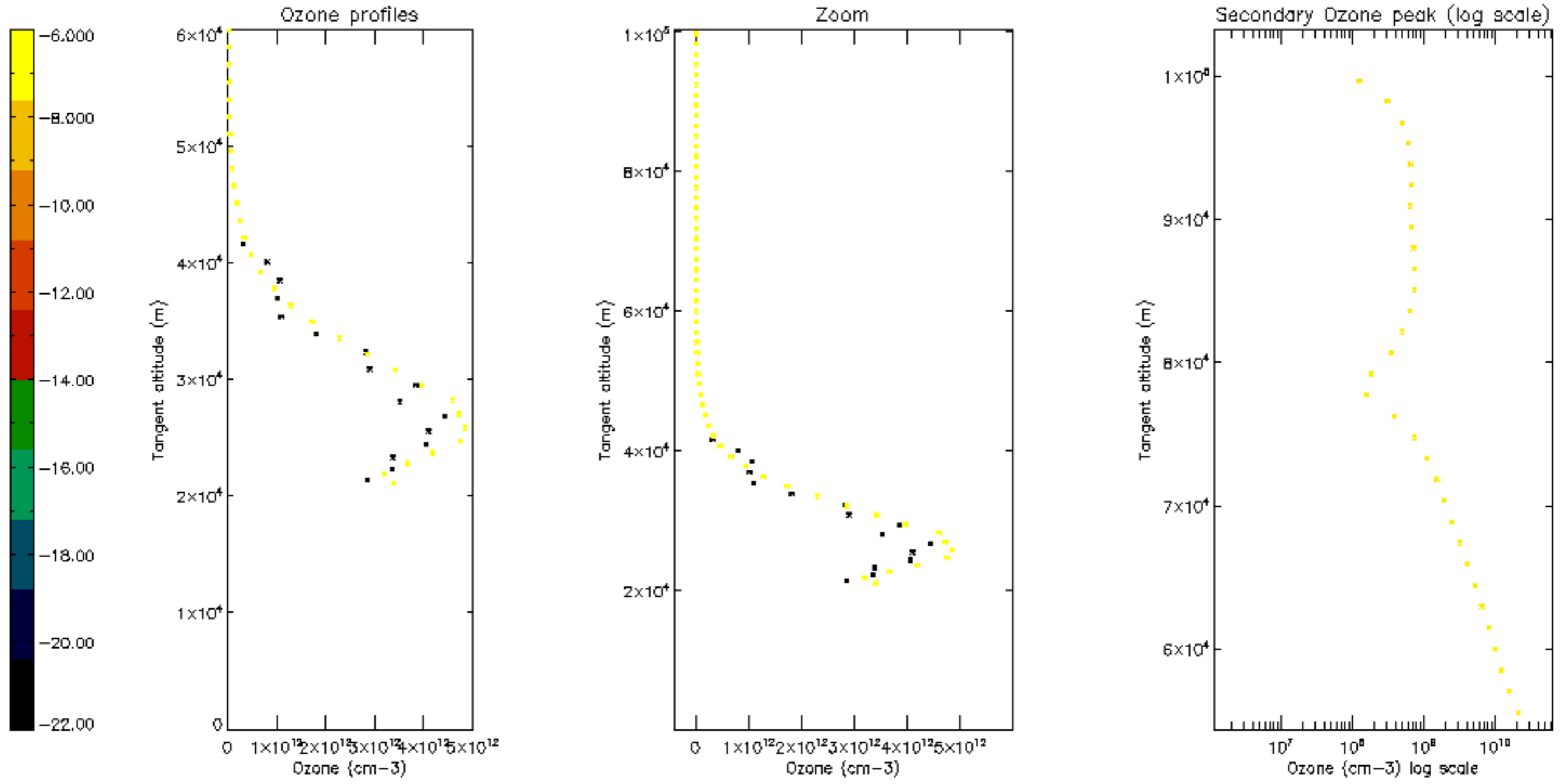
Percentage of star falling outside central band per profile

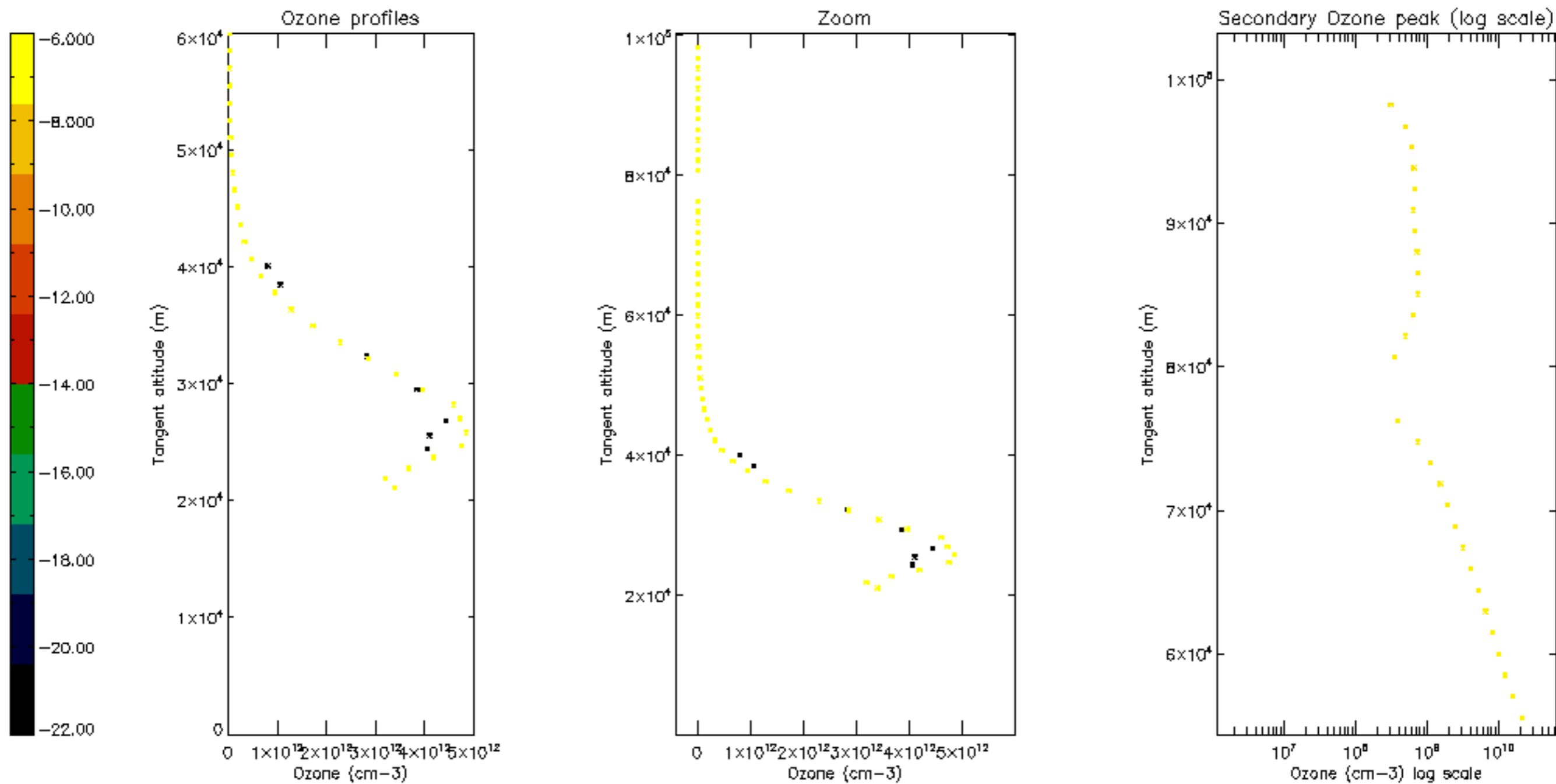


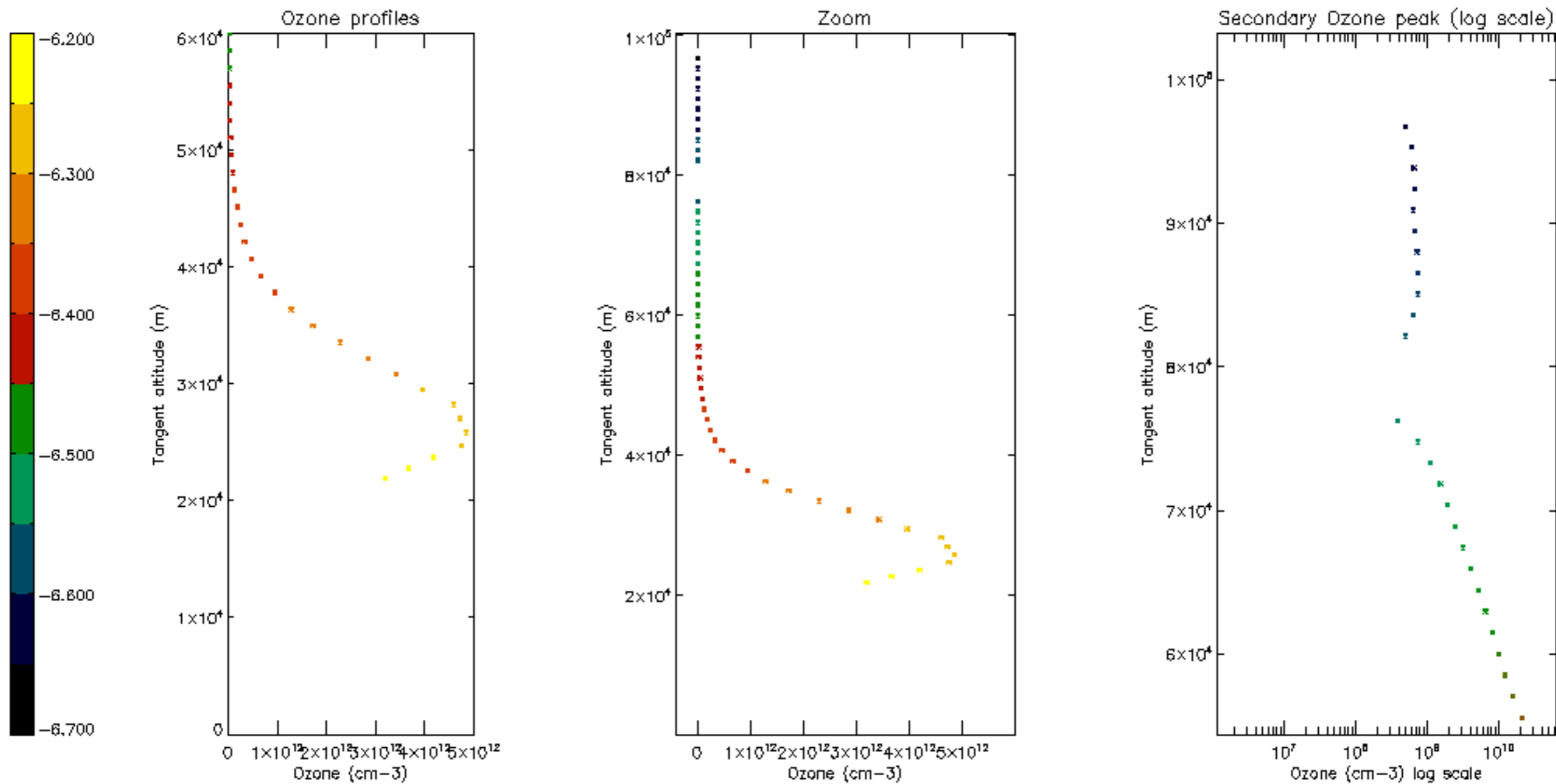
Percentage of saturation errors per profile

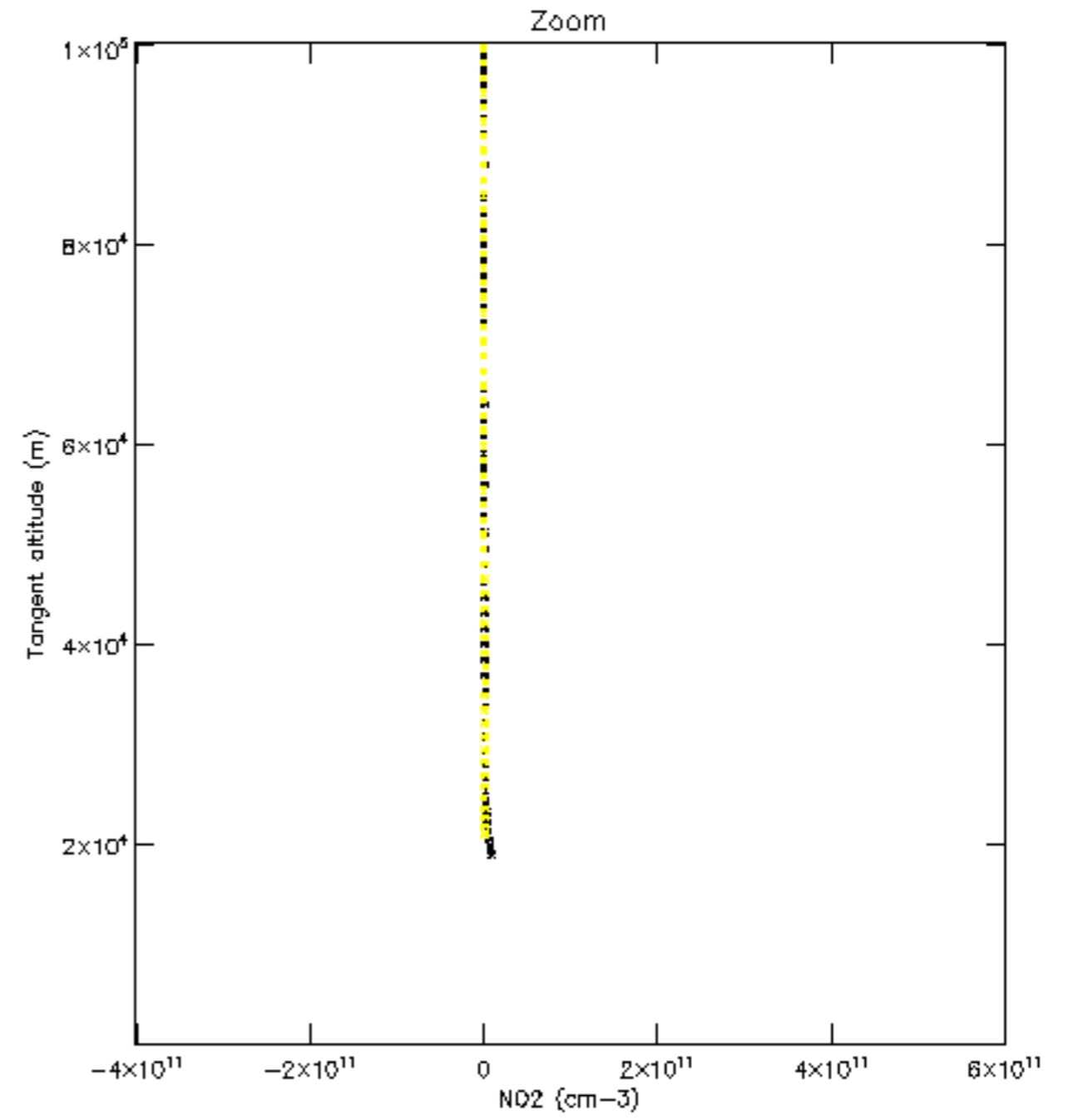
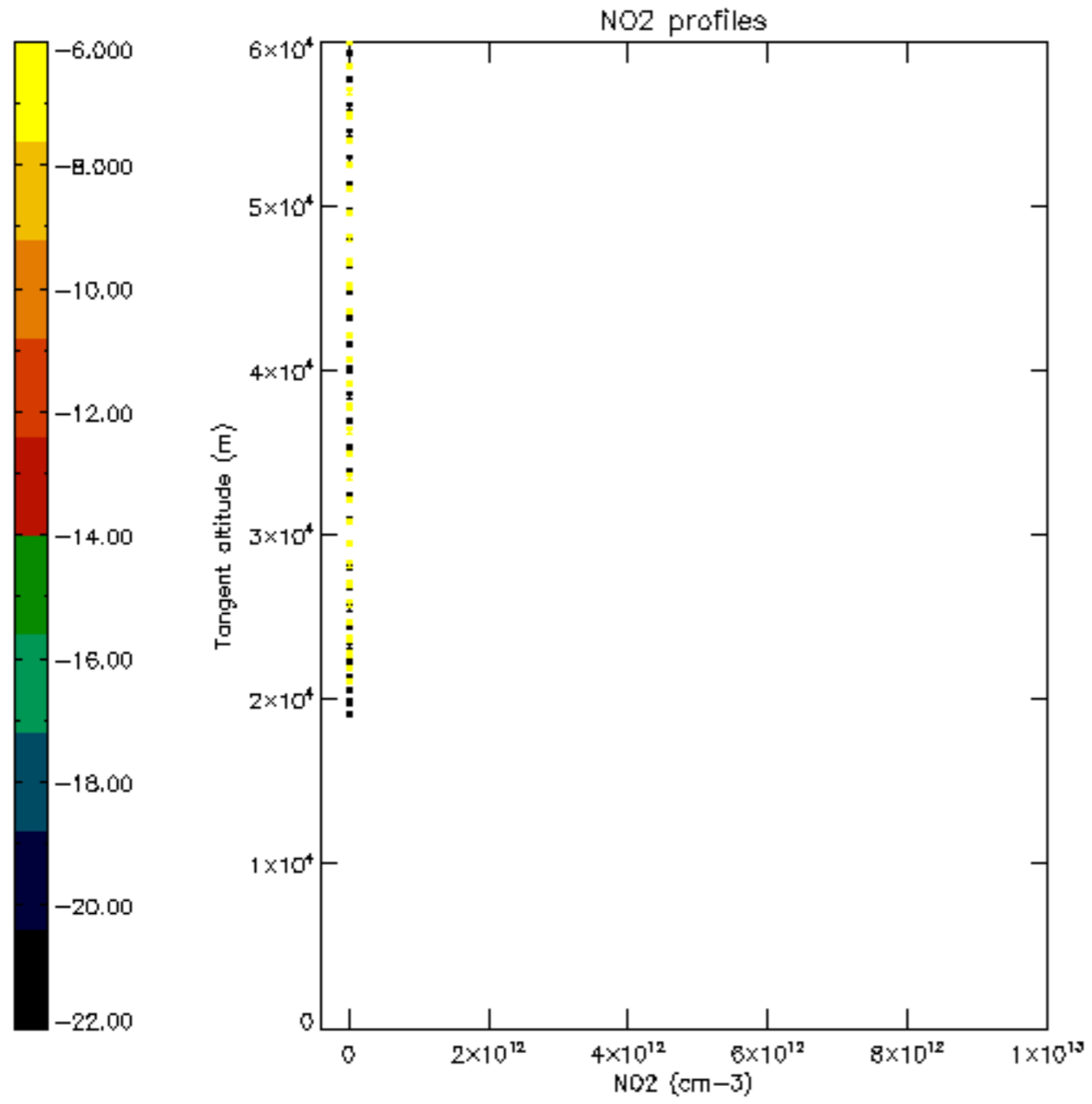


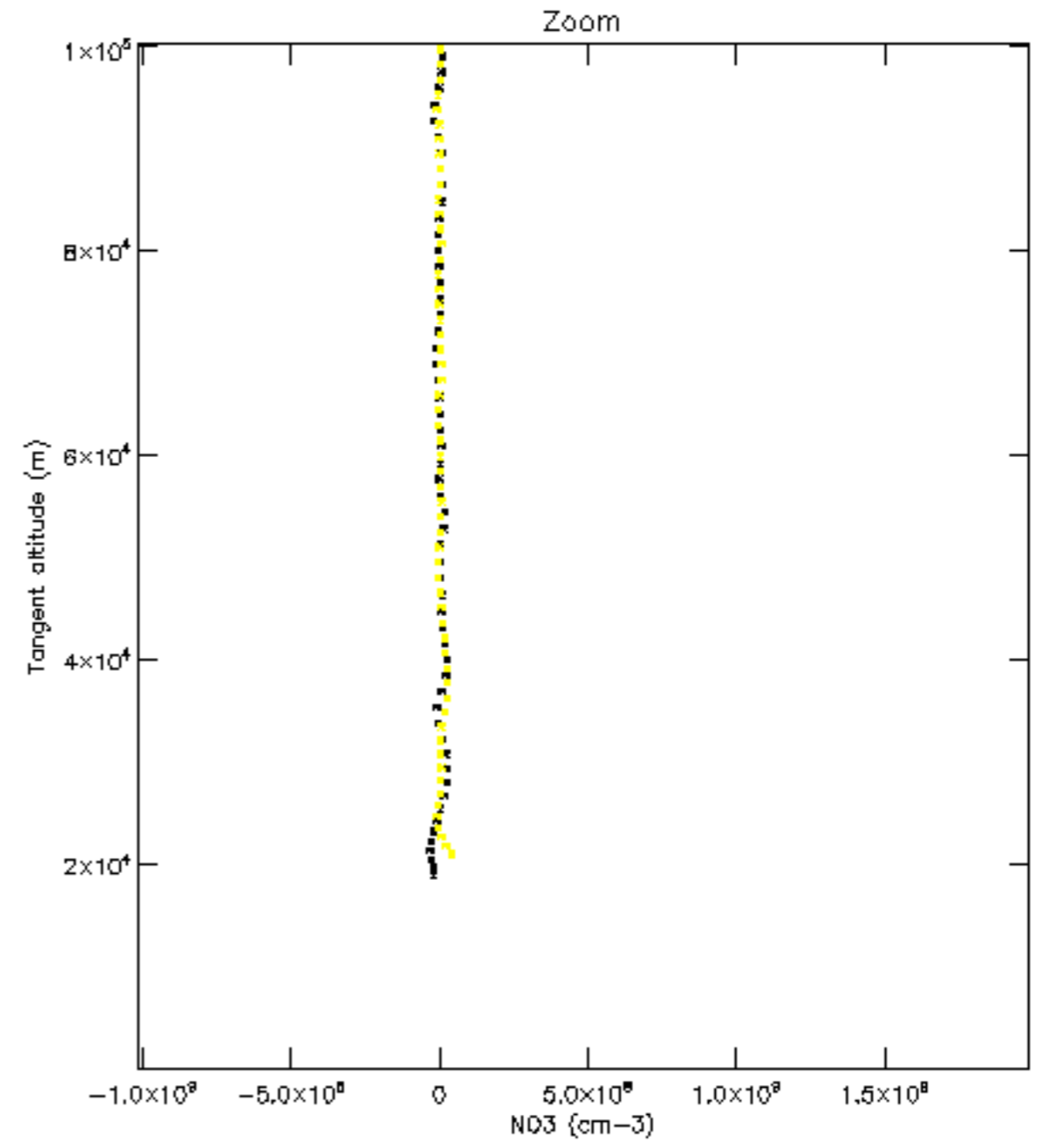
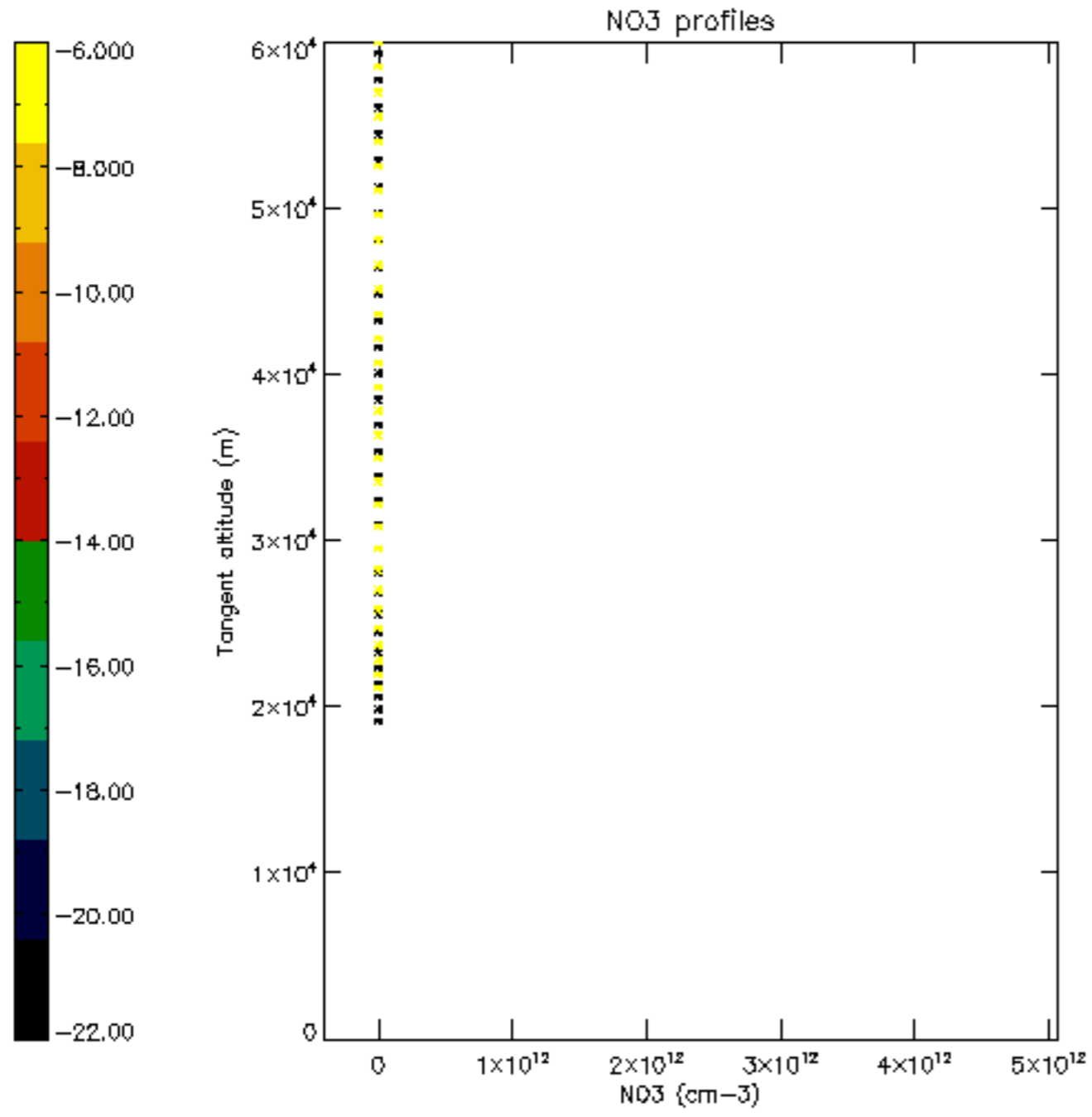


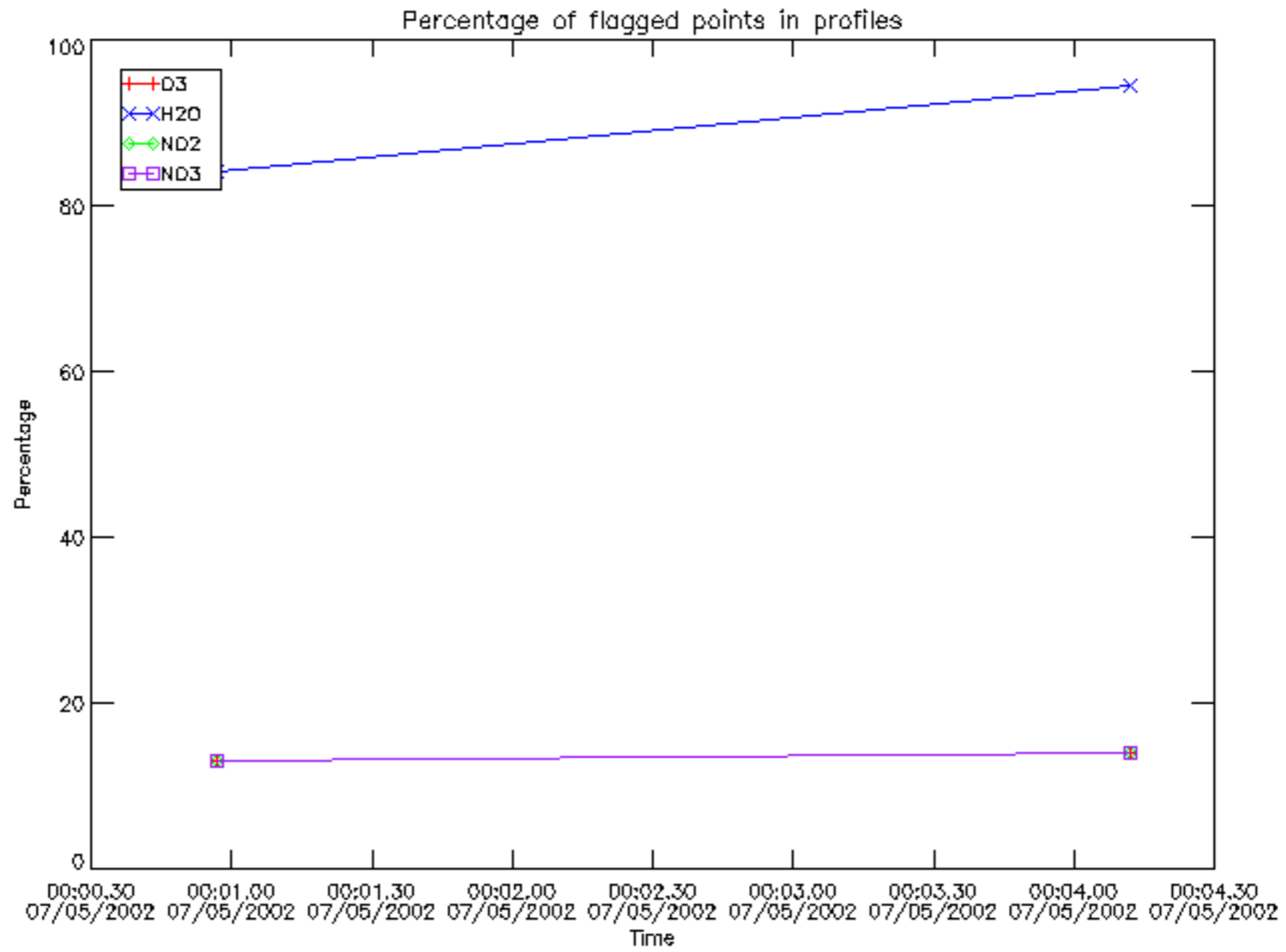




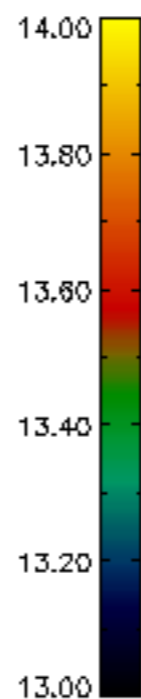
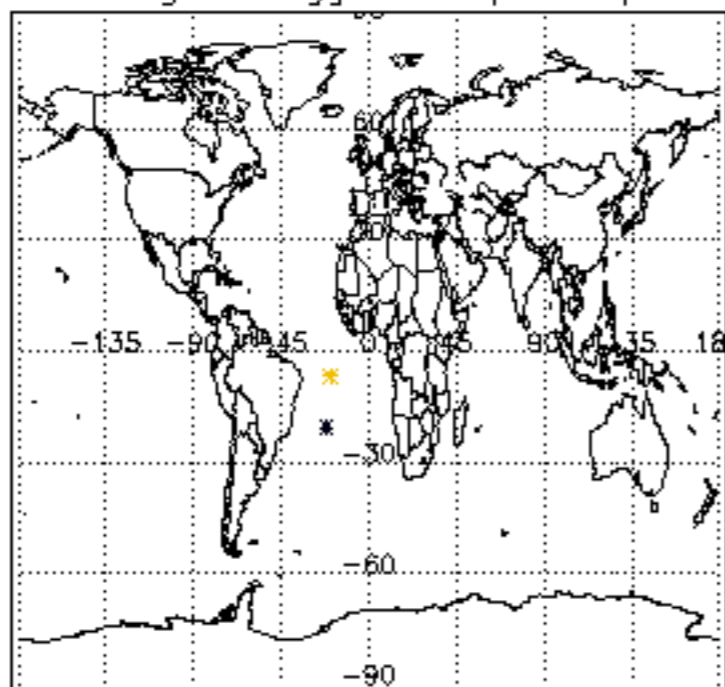




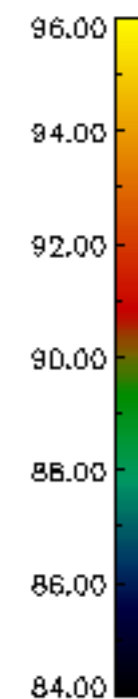
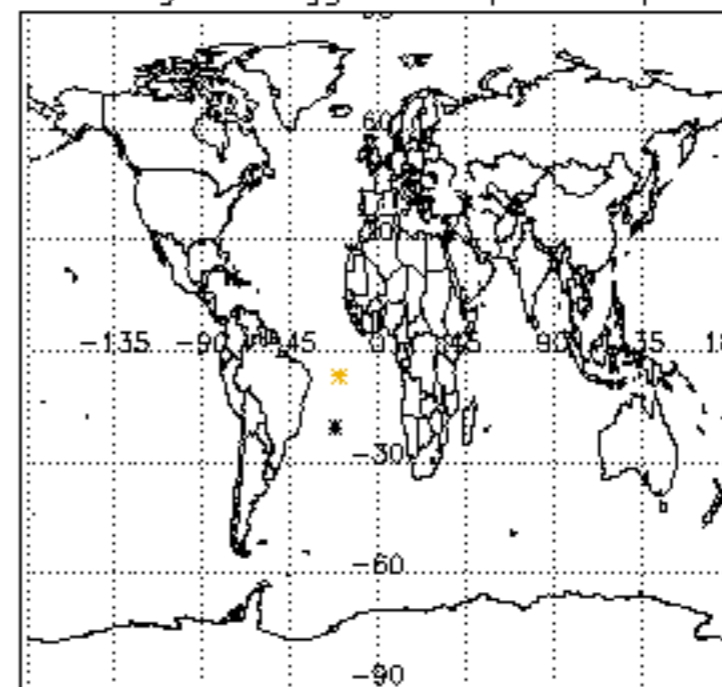




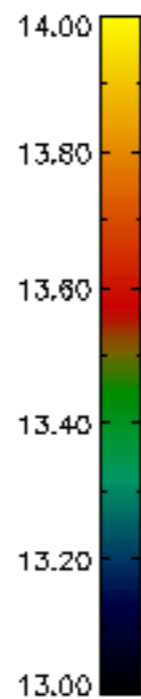
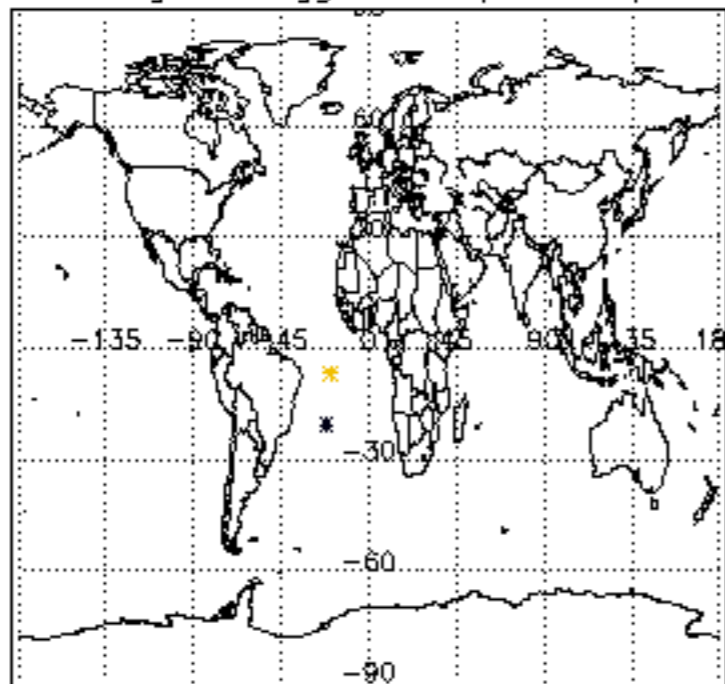
Percentage of flagged data per D3 profile



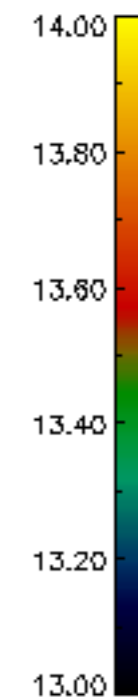
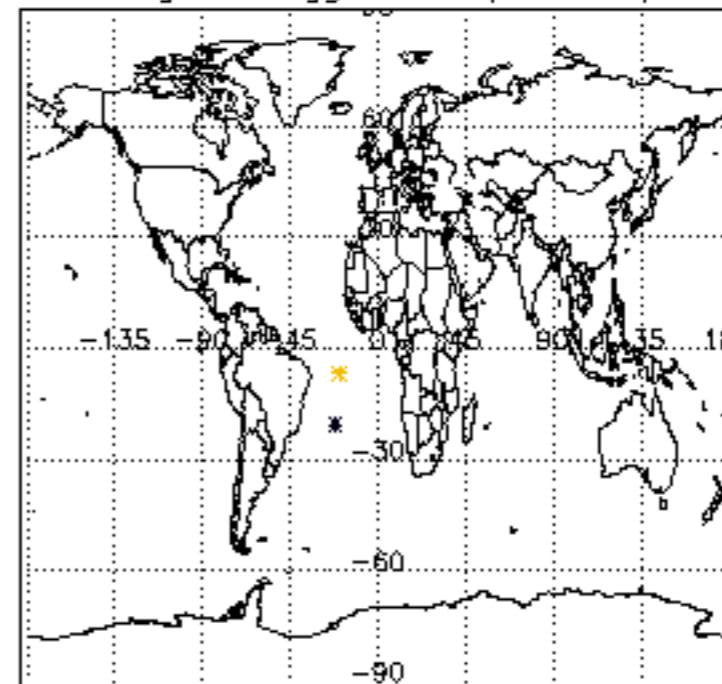
Percentage of flagged data per H2O profile

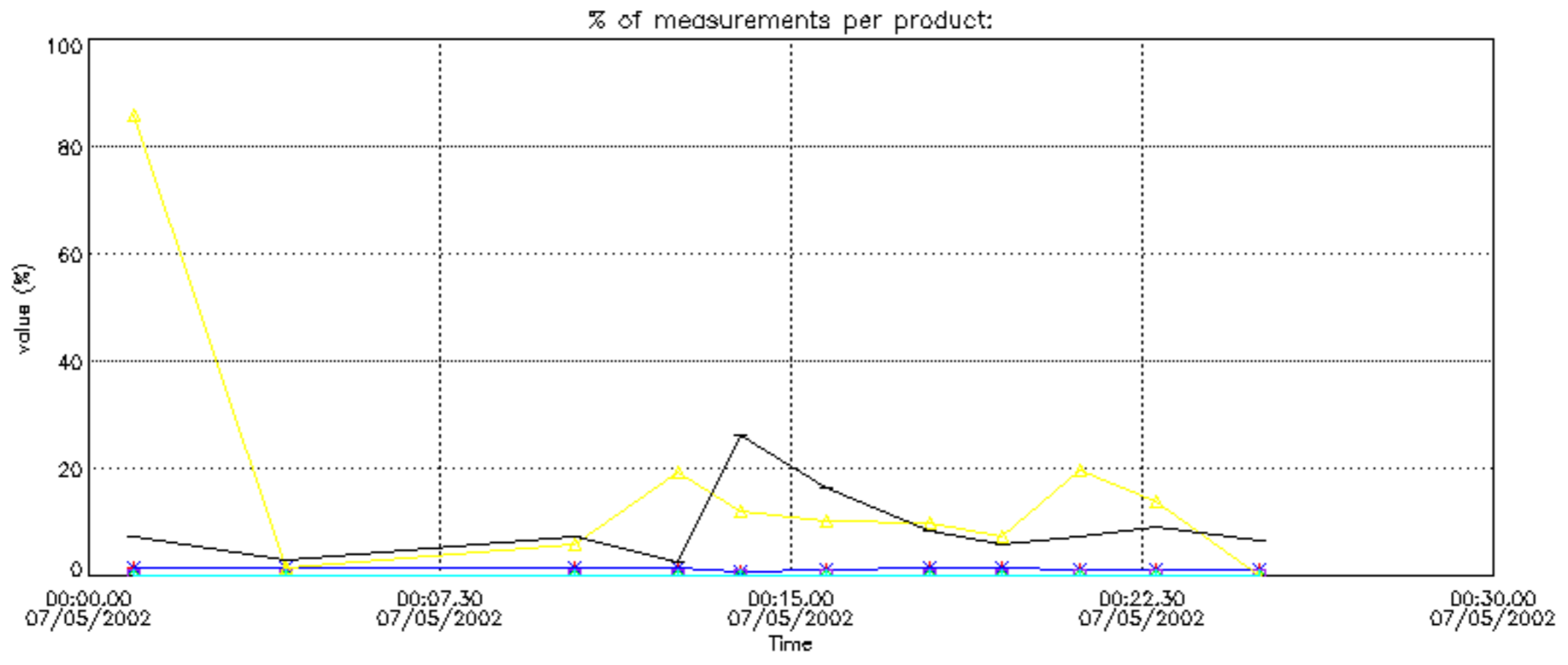


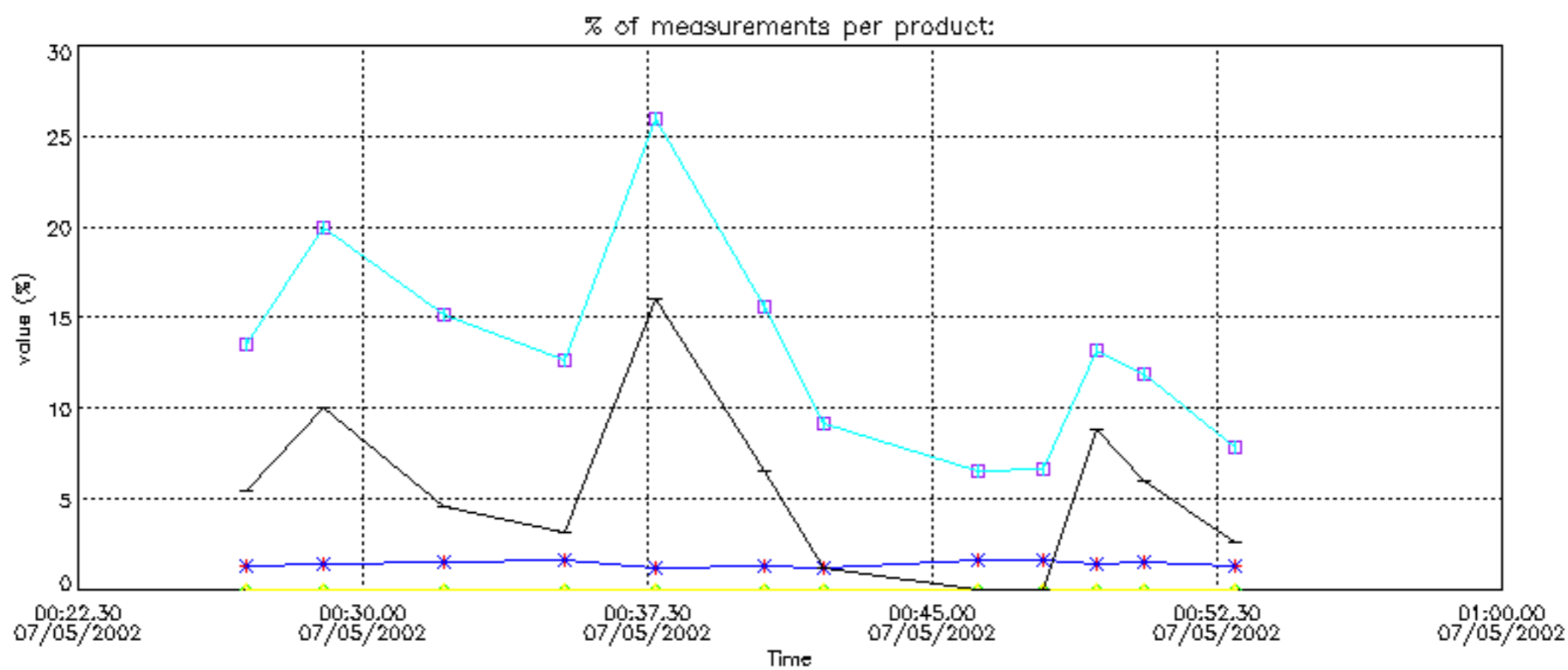
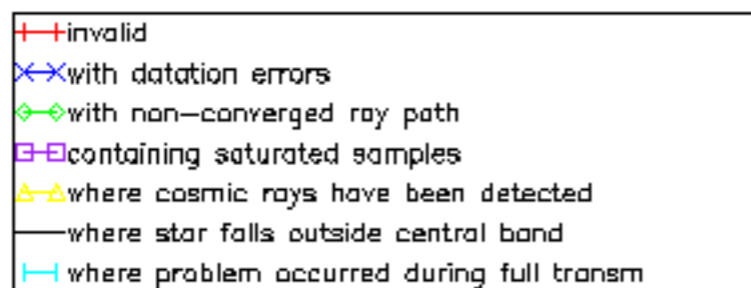
Percentage of flagged data per NO2 profile



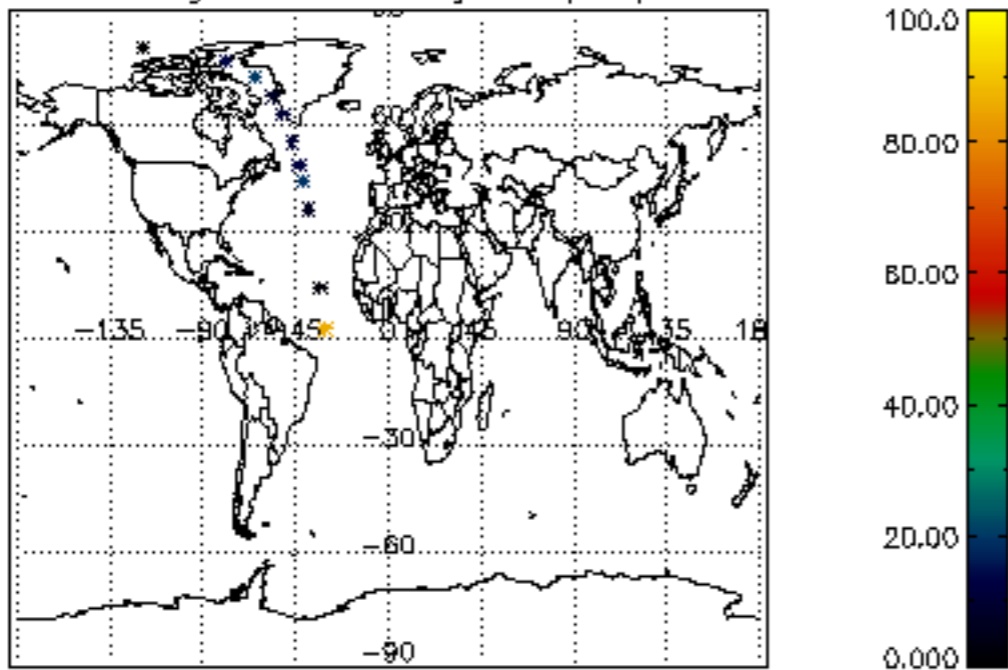
Percentage of flagged data per NO3 profile



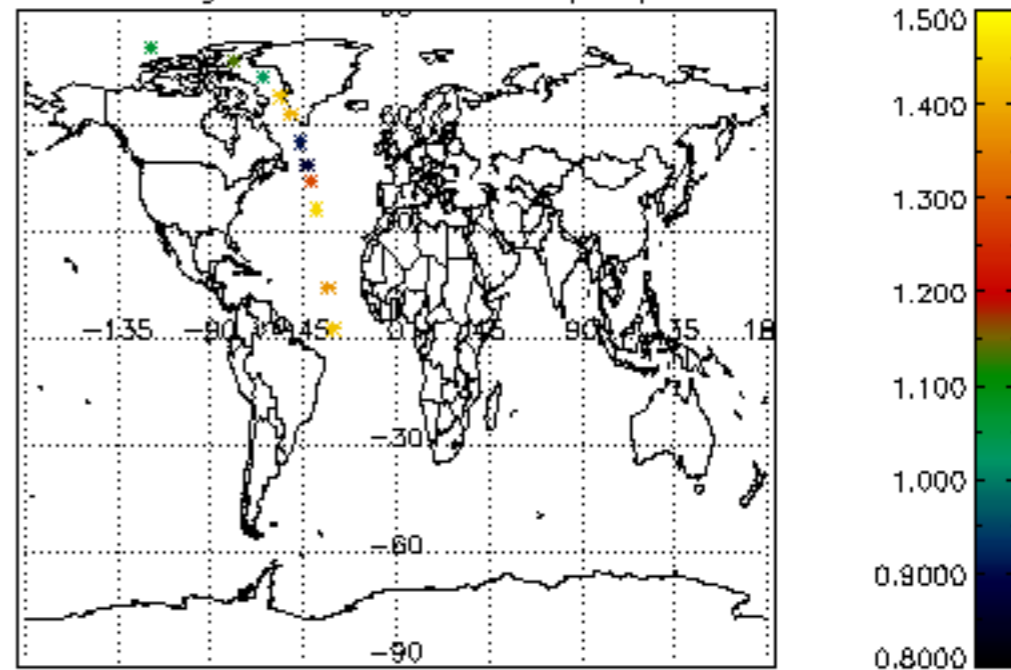




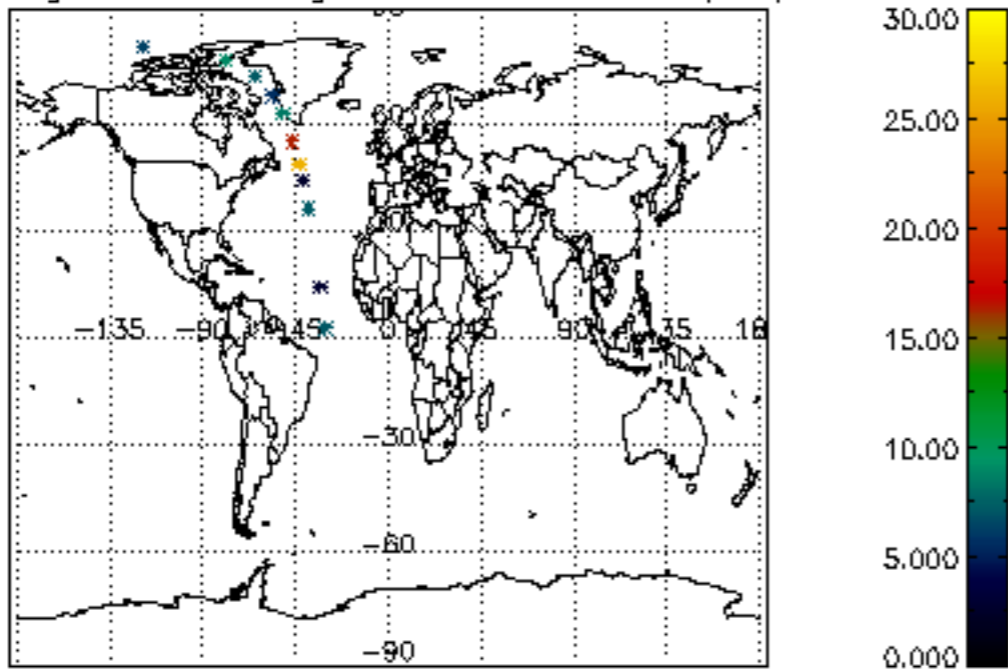
Percentage of cosmic ray hits per profile



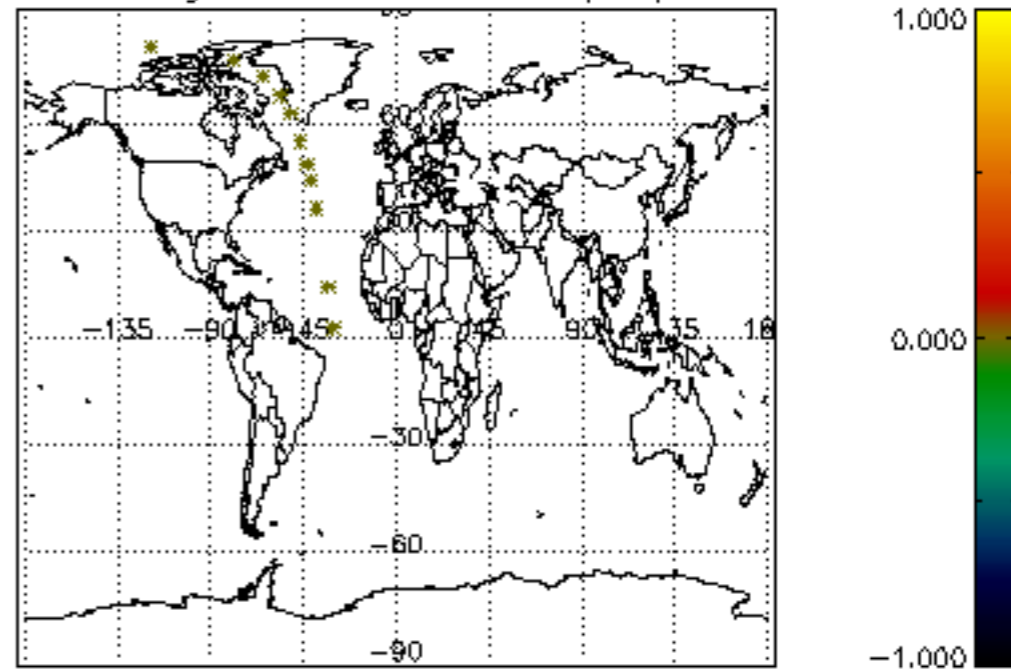
Percentage of datation errors per profile



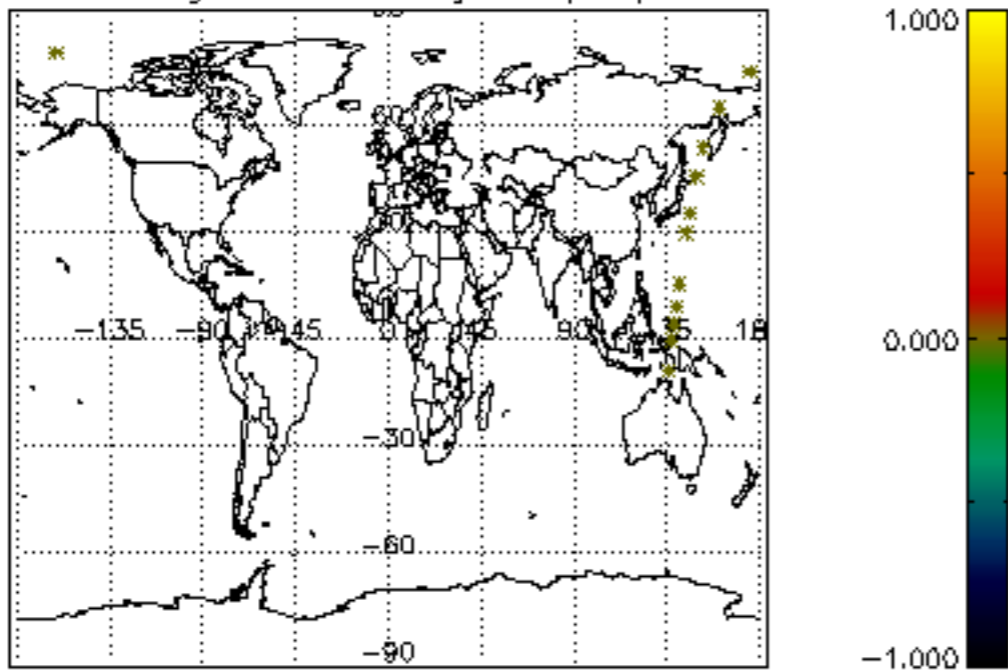
Percentage of star falling outside central band per profile



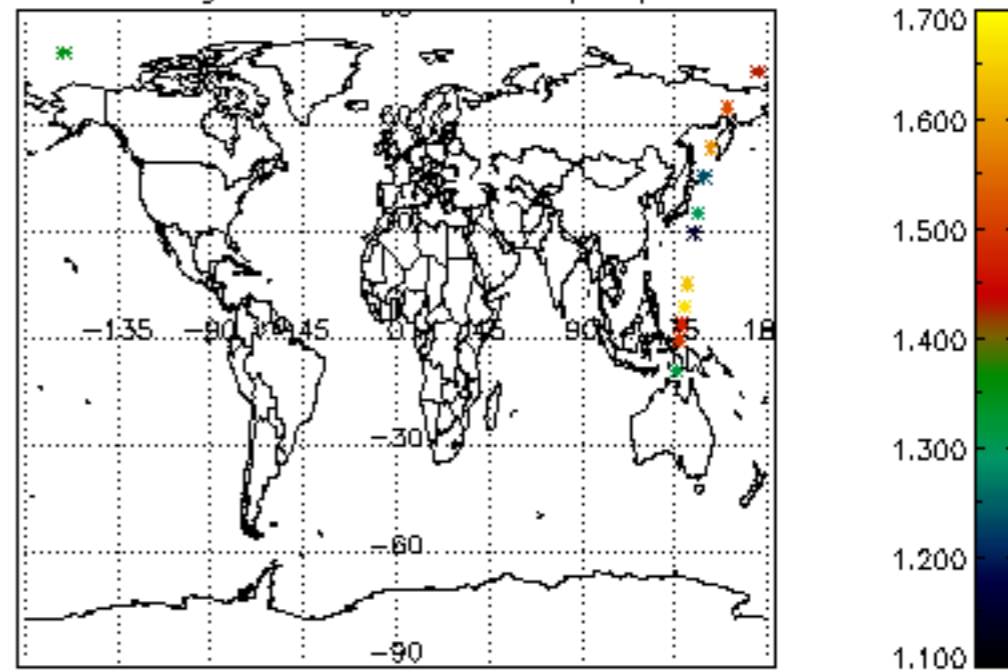
Percentage of saturation errors per profile



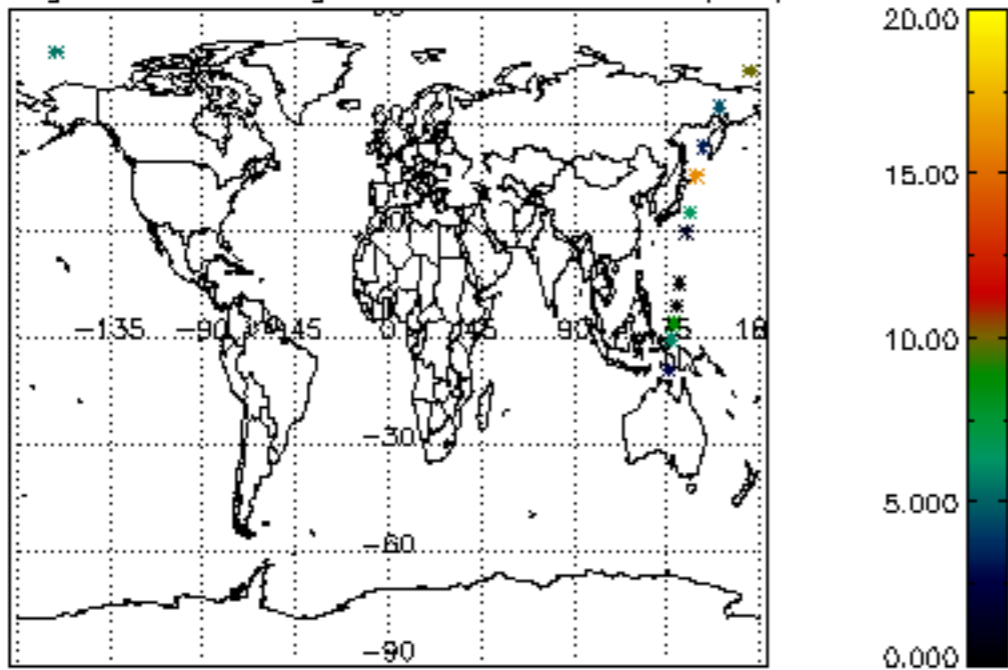
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

