

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.

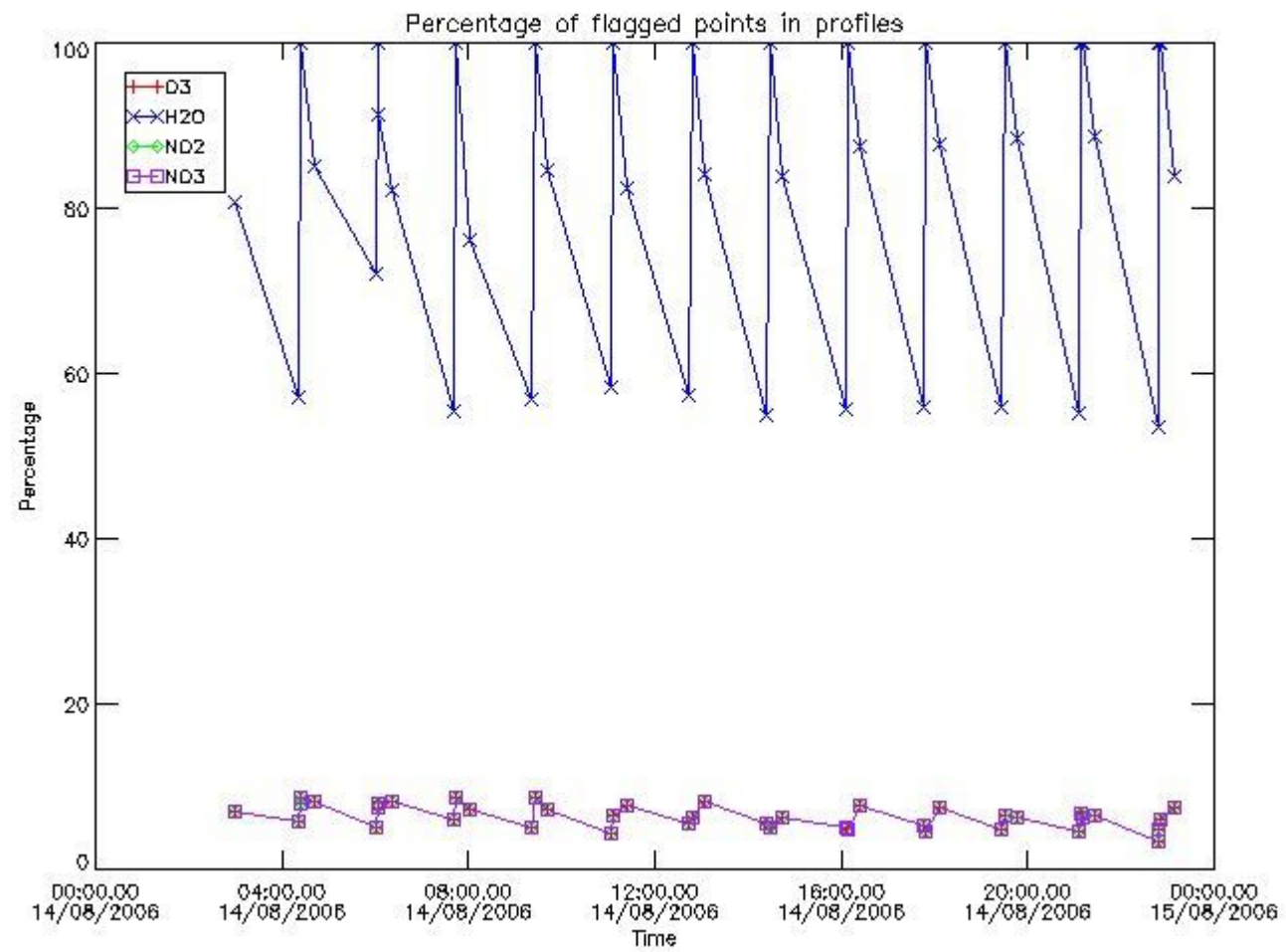
Item	Value
Time of report generation	24APR2013 03:16:20
Data source version	GOMOS/6.01
Start time of products	14-08-2006 (14AUG2006 00:00:00)
Stop time of products	15-08-2006 (15AUG2006 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	156
Nb of prods with errors	0

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__2PRFIN20060814_030011_000000372050_00190_23290_1839.N1	14-AUG-2006 03:00:11	Dark	37.000	9	Alp Eri	0.45300	24000.	74	23290	No
2	GOM_NL__2PRFIN20060814_030607_000000402050_00190_23290_1840.N1	14-AUG-2006 03:06:07	Straylight	39.500	148	Alp Tuc	2.8780	4100.0	79	23290	No
3	GOM_NL__2PRFIN20060814_030940_000000392050_00190_23290_1841.N1	14-AUG-2006 03:09:40	Straylight	38.500	31	Alp Gru	1.7340	15200.	77	23290	No
4	GOM_NL__2PRFIN20060814_031239_000000372050_00190_23290_1842.N1	14-AUG-2006 03:12:39	Straylight	37.000	172	Gam Gru	3.0030	13100.	74	23290	No
5	GOM_NL__2PRFIN20060814_032718_000000312050_00190_23290_1843.N1	14-AUG-2006 03:27:18	Bright	30.500	11	53Alp Aql	0.76500	8000.0	61	23290	No
6	GOM_NL__2PRFIN20060814_033618_000000342050_00190_23290_1844.N1	14-AUG-2006 03:36:18	Bright	34.000	66	37Gam Cyg	2.2080	5900.0	68	23290	No
7	GOM_NL__2PRFIN20060814_033731_000000292050_00190_23290_1845.N1	14-AUG-2006 03:37:31	Bright	29.000	144	18Del Cyg	2.8600	11000.	58	23290	No
8	GOM_NL__2PRFIN20060814_035015_000000302050_00190_23290_1846.N1	14-AUG-2006 03:50:15	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	23290	No
9	GOM_NL__2PRFIN20060814_040956_000000392050_00190_23290_1847.N1	14-AUG-2006 04:09:56	Twilight_stray	38.500	151	13Mu Gem	2.8900	3000.0	77	23290	No
10	GOM_NL__2PRFIN20060814_041130_000000332050_00190_23290_1848.N1	14-AUG-2006 04:11:30	Twilight_stray	33.000	44	24Gam Gem	1.9280	11000.	66	23290	No
11	GOM_NL__2PRFIN20060814_042036_000000362050_00190_23290_1849.N1	14-AUG-2006 04:20:36	Dark	35.500	1	9Alp CMa	-1.4400	11000.	71	23290	No
12	GOM_NL__2PRFIN20060814_042251_000000322050_00190_23290_1850.N1	14-AUG-2006 04:22:51	Dark	32.000	101	11Alp Lep	2.5820	7000.0	64	23290	No
13	GOM_NL__2PRFIN20060814_042349_000000412050_00190_23290_1851.N1	14-AUG-2006 04:23:49	Dark	41.000	139	9Bet Lep	2.8330	5600.0	82	23290	No
14	GOM_NL__2PRFIN20060814_044048_000000382050_00191_23291_1841.N1	14-AUG-2006 04:40:48	Dark	37.500	9	Alp Eri	0.45300	24000.	75	23291	No
15	GOM_NL__2PRFIN20060814_044643_000000342050_00191_23291_1842.N1	14-AUG-2006 04:46:43	Straylight	34.000	148	Alp Tuc	2.8780	4100.0	68	23291	No
16	GOM_NL__2PRFIN20060814_045016_000000372050_00191_23291_1843.N1	14-AUG-2006 04:50:16	Straylight	37.000	31	Alp Gru	1.7340	15200.	74	23291	No
17	GOM_NL__2PRFIN20060814_045316_000000352050_00191_23291_1844.N1	14-AUG-2006 04:53:16	Straylight	35.000	172	Gam Gru	3.0030	13100.	70	23291	No
18	GOM_NL__2PRFIN20060814_050754_000000322050_00191_23291_1845.N1	14-AUG-2006 05:07:54	Bright	31.500	11	53Alp Aql	0.76500	8000.0	63	23291	No
19	GOM_NL__2PRFIN20060814_051654_000000332050_00191_23291_1846.N1	14-AUG-2006 05:16:54	Bright	32.500	66	37Gam Cyg	2.2080	5900.0	65	23291	No
20	GOM_NL__2PRFIN20060814_051807_000000312050_00191_23291_1847.N1	14-AUG-2006 05:18:07	Bright	31.000	144	18Del Cyg	2.8600	11000.	62	23291	No
21	GOM_NL__2PRFIN20060814_053051_000000282050_00191_23291_1848.N1	14-AUG-2006 05:30:51	Bright	27.500	49	1Alp UMi	1.9900	6300.0	55	23291	No
22	GOM_NL__2PRFIN20060814_055032_000000472050_00191_23291_1849.N1	14-AUG-2006 05:50:32	Twilight_stray	47.000	151	13Mu Gem	2.8900	3000.0	94	23291	No
23	GOM_NL__2PRFIN20060814_055206_000000362050_00191_23291_1850.N1	14-AUG-2006 05:52:06	Twilight_stray	35.500	44	24Gam Gem	1.9280	11000.	71	23291	No
24	GOM_NL__2PRFIN20060814_060112_000000312050_00191_23291_1851.N1	14-AUG-2006 06:01:12	Dark	31.000	1	9Alp CMa	-1.4400	11000.	62	23291	No
25	GOM_NL__2PRFIN20060814_060328_000000322050_00191_23291_1852.N1	14-AUG-2006 06:03:28	Dark	32.000	101	11Alp Lep	2.5820	7000.0	64	23291	No
26	GOM_NL__2PRFIN20060814_060425_000000412050_00191_23291_1853.N1	14-AUG-2006 06:04:25	Dark	40.500	139	9Bet Lep	2.8330	5600.0	81	23291	No
27	GOM_NL__2PRFIN20060814_062124_000000372050_00192_23292_1843.N1	14-AUG-2006 06:21:24	Dark	37.000	9	Alp Eri	0.45300	24000.	74	23292	No
28	GOM_NL__2PRFIN20060814_062720_000000352050_00192_23292_1844.N1	14-AUG-2006 06:27:20	Straylight	35.000	148	Alp Tuc	2.8780	4100.0	70	23292	No
29	GOM_NL__2PRFIN20060814_063053_000000342050_00192_23292_1845.N1	14-AUG-2006 06:30:53	Straylight	33.500	31	Alp Gru	1.7340	15200.	67	23292	No
30	GOM_NL__2PRFIN20060814_063352_000000352050_00192_23292_1846.N1	14-AUG-2006 06:33:52	Straylight	35.000	172	Gam Gru	3.0030	13100.	70	23292	No
31	GOM_NL__2PRFIN20060814_064830_000000302050_00192_23292_1847.N1	14-AUG-2006 06:48:30	Bright	30.000	11	53Alp Aql	0.76500	8000.0	60	23292	No
32	GOM_NL__2PRFIN20060814_065730_000000332050_00192_23292_1848.N1	14-AUG-2006 06:57:30	Bright	33.000	66	37Gam Cyg	2.2080	5900.0	66	23292	No
33	GOM_NL__2PRFIN20060814_065843_000000282050_00192_23292_1849.N1	14-AUG-2006 06:58:43	Bright	28.000	144	18Del Cyg	2.8600	11000.	56	23292	No
34	GOM_NL__2PRFIN20060814_071127_000000282050_00192_23292_1850.N1	14-AUG-2006 07:11:27	Bright	28.000	49	1Alp UMi	1.9900	6300.0	56	23292	No
35	GOM_NL__2PRFIN20060814_073108_000000432050_00192_23292_1851.N1	14-AUG-2006 07:31:08	Twilight_stray	42.500	151	13Mu Gem	2.8900	3000.0	85	23292	No
36	GOM_NL__2PRFIN20060814_073242_000000362050_00192_23292_1852.N1	14-AUG-2006 07:32:42	Twilight_stray	36.000	44	24Gam Gem	1.9280	11000.	72	23292	No
37	GOM_NL__2PRFIN20060814_074148_000000422050_00192_23292_1853.N1	14-AUG-2006 07:41:48	Dark	42.000	1	9Alp CMa	-1.4400	11000.	84	23292	No
38	GOM_NL__2PRFIN20060814_074502_000000302050_00192_23292_1854.N1	14-AUG-2006 07:45:02	Dark	30.000	139	9Bet Lep	2.8330	5600.0	60	23292	No
39	GOM_NL__2PRFIN20060814_080201_000000362050_00193_23293_1845.N1	14-AUG-2006 08:02:01	Dark	36.000	9	Alp Eri	0.45300	24000.	72	23293	No
40	GOM_NL__2PRFIN20060814_080756_000000362050_00193_23293_1846.N1	14-AUG-2006 08:07:56	Straylight	36.000	148	Alp Tuc	2.8780	4100.0	72	23293	No
41	GOM_NL__2PRFIN20060814_081129_000000382050_00193_23293_1847.N1	14-AUG-2006 08:11:29	Straylight	38.000	31	Alp Gru	1.7340	15200.	76	23293	No
42	GOM_NL__2PRFIN20060814_081428_000000352050_00193_23293_1848.N1	14-AUG-2006 08:14:28	Straylight	35.000	172	Gam Gru	3.0030	13100.	70	23293	No

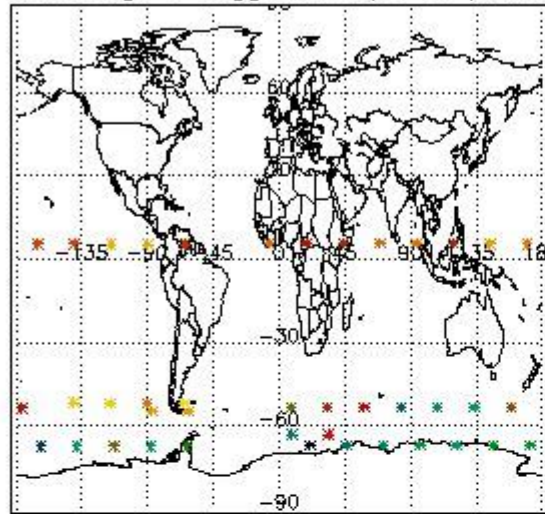
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

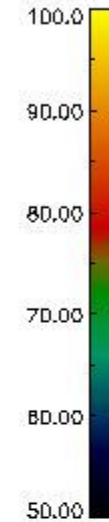
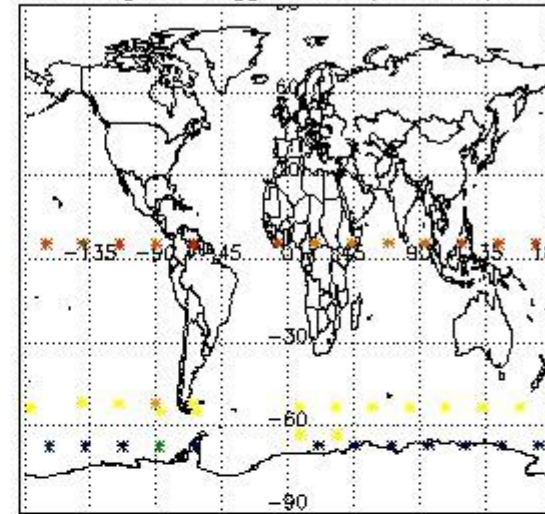


3.2 Plot quality information per product (world map)

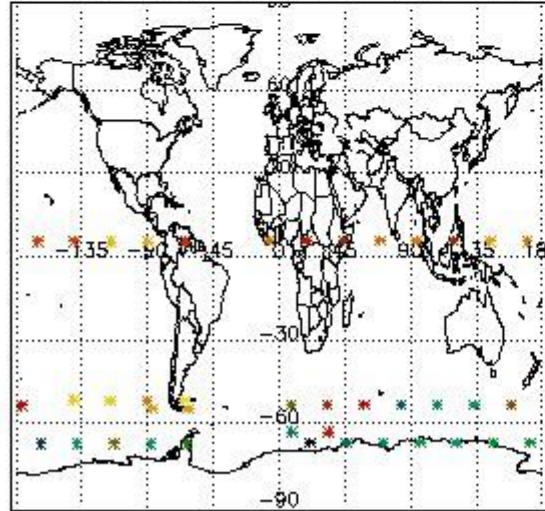
Percentage of flagged data per O3 profile



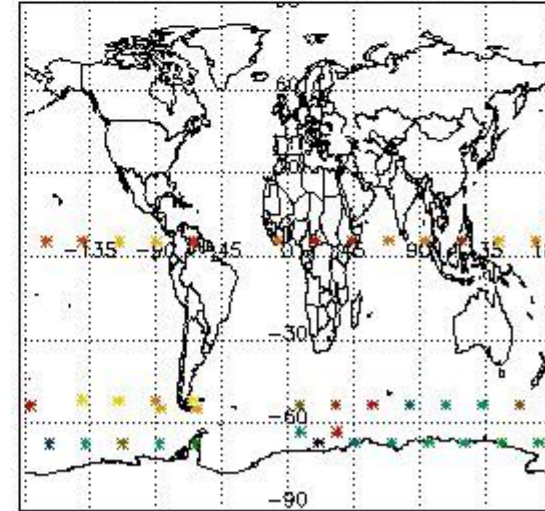
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

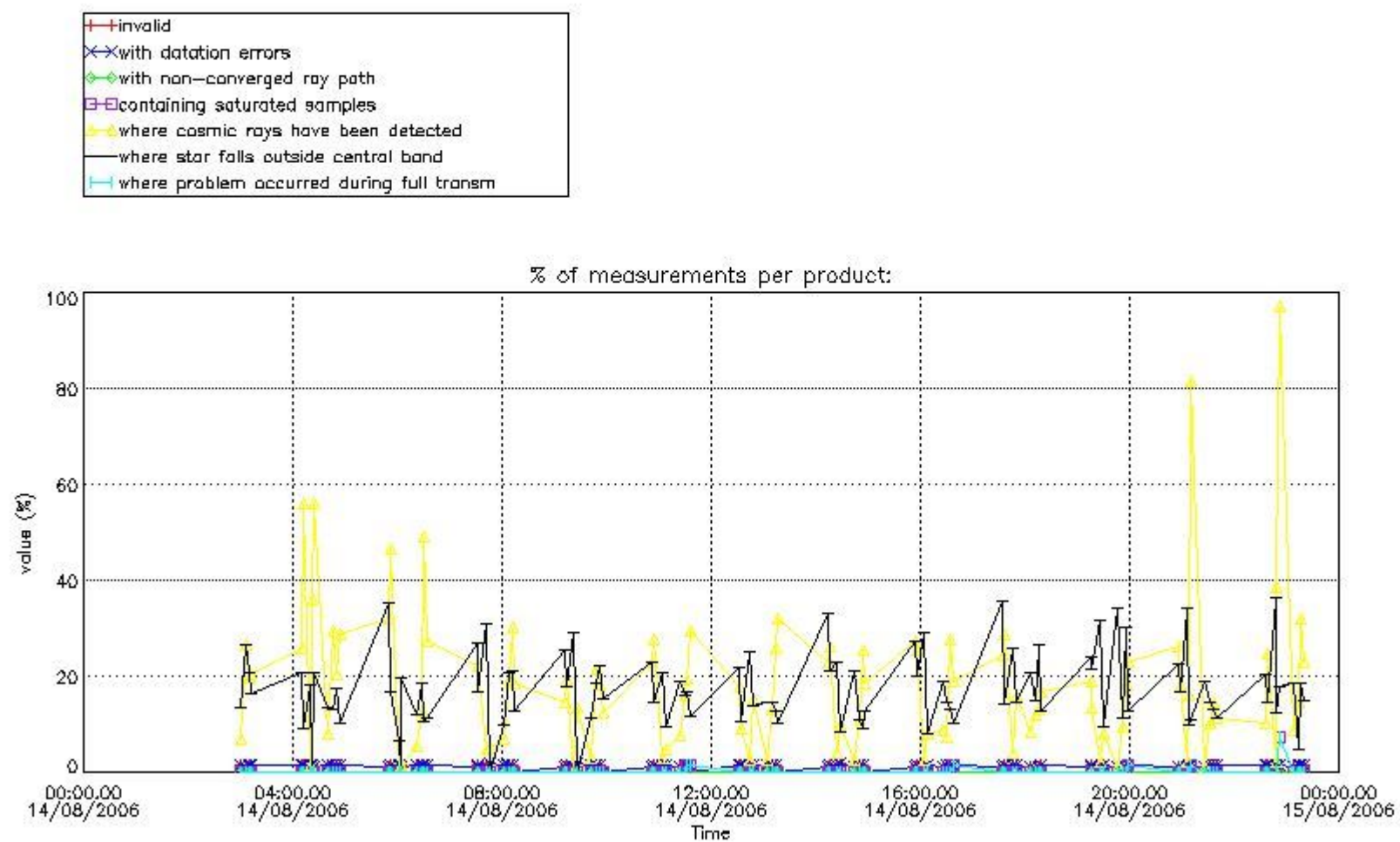


4. Level 1 quality information per product

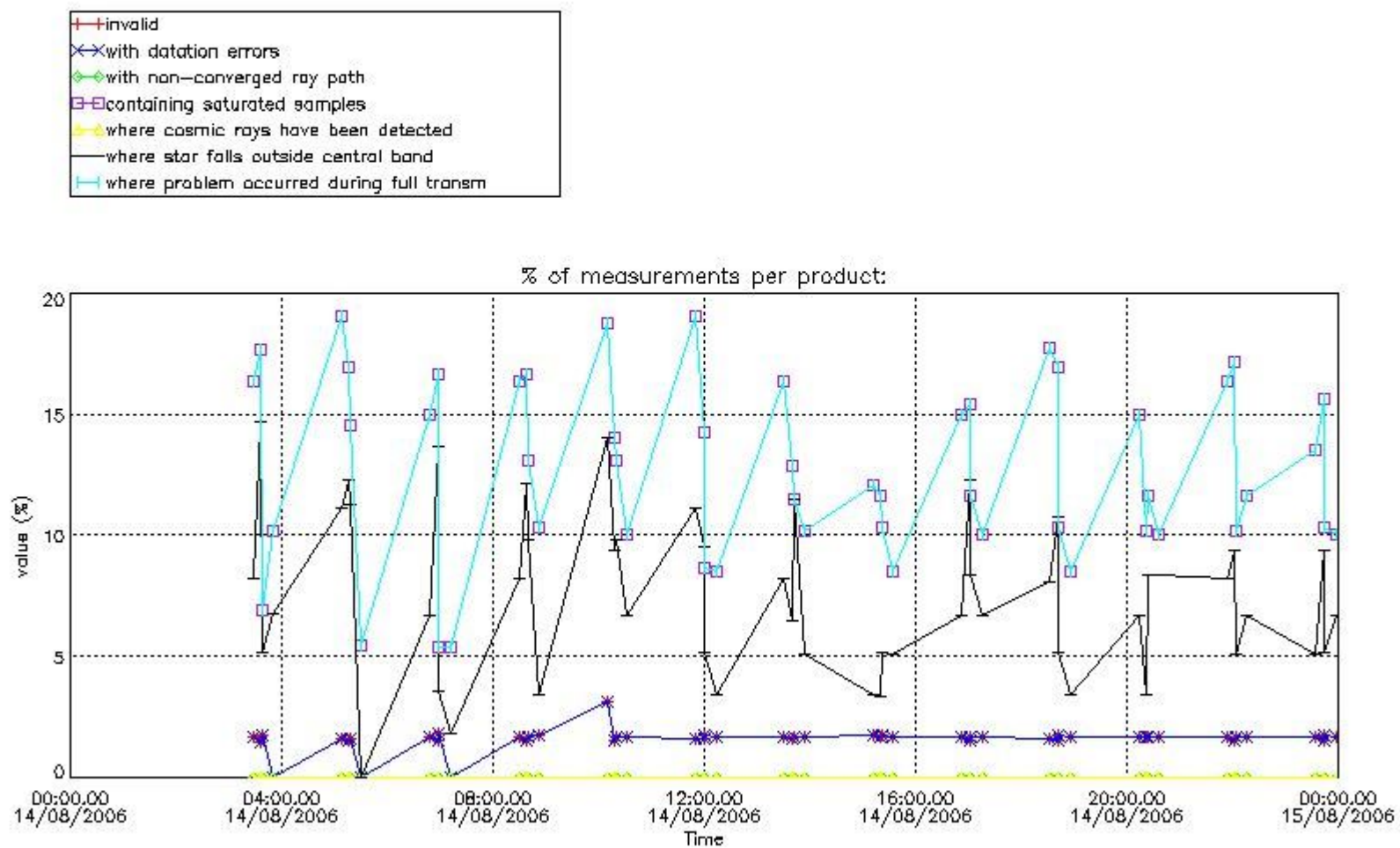
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



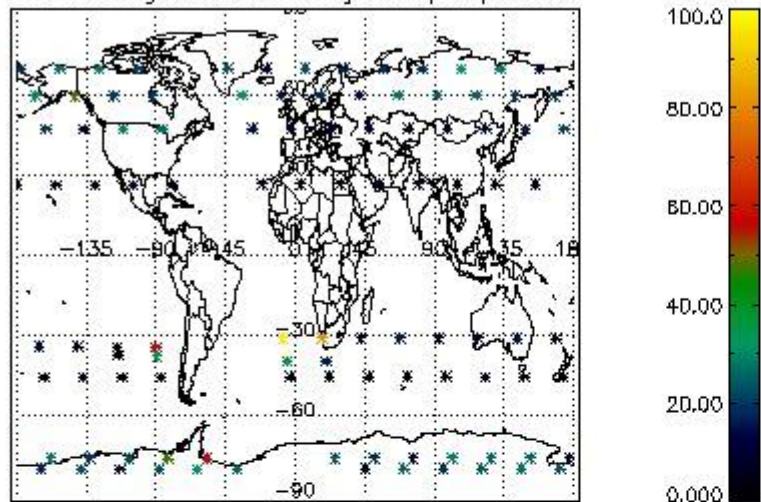
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



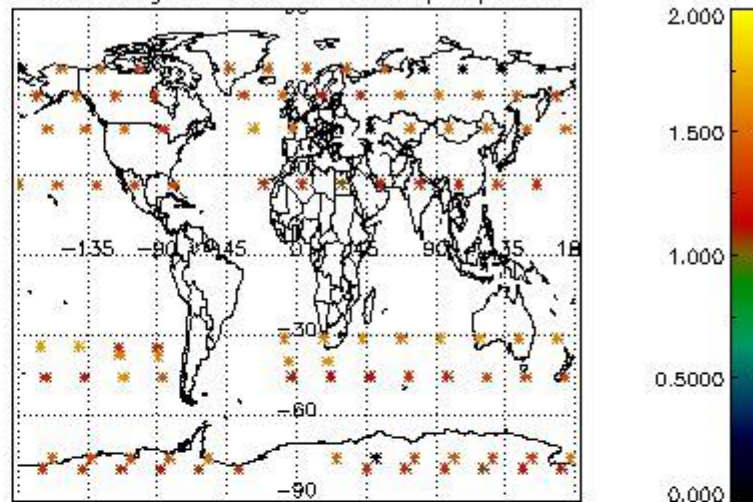
4.2 Plot quality information per product coming from level 1b processing (world map)

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

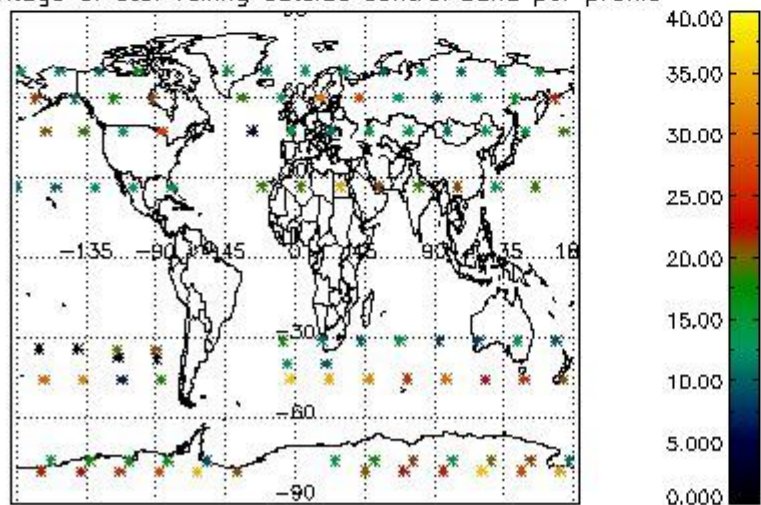
Percentage of cosmic ray hits per profile



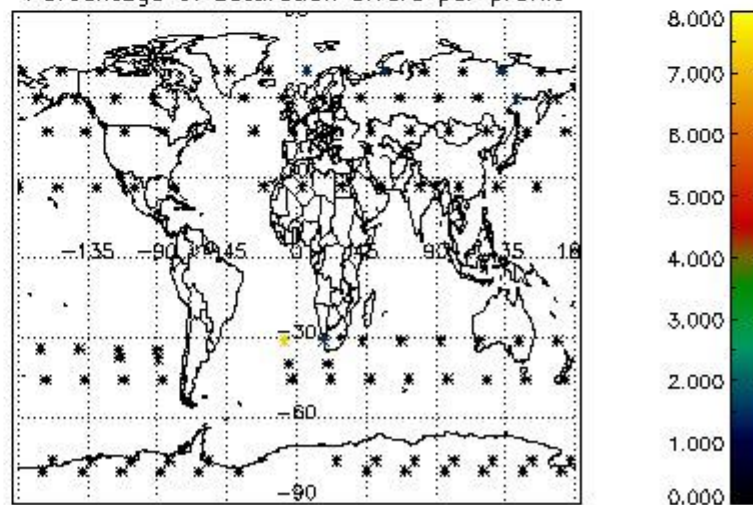
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

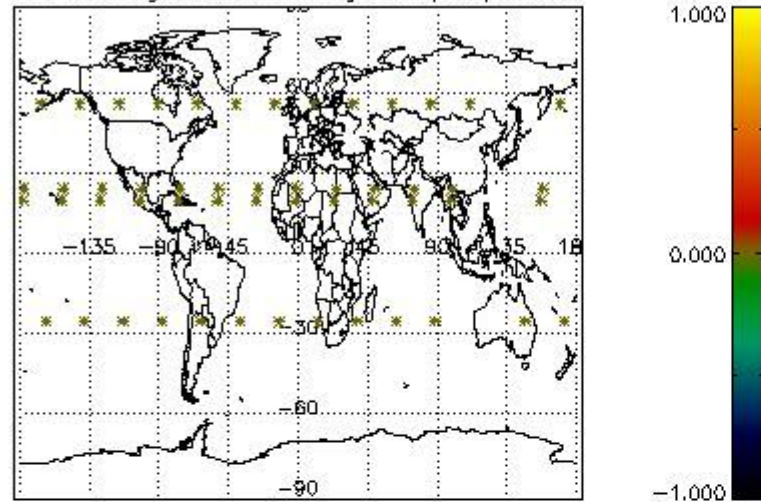


Percentage of saturation errors per profile

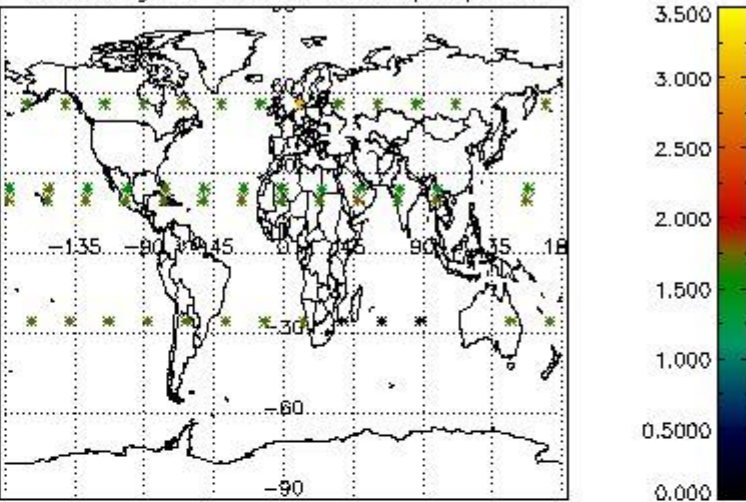


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

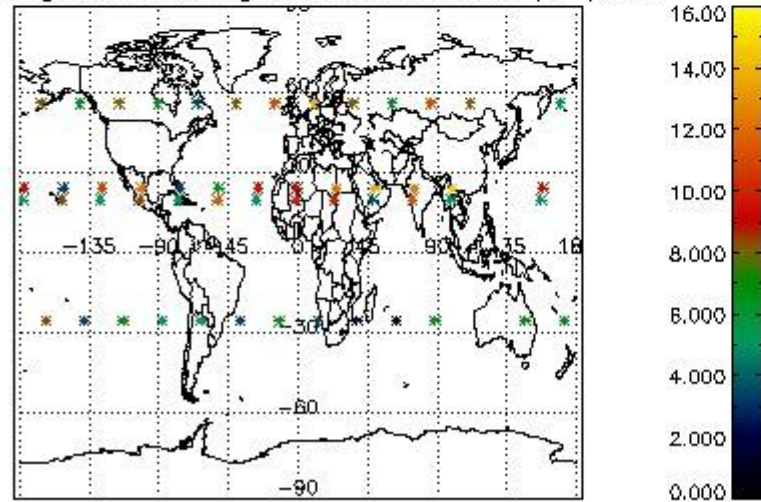
Percentage of cosmic ray hits per profile



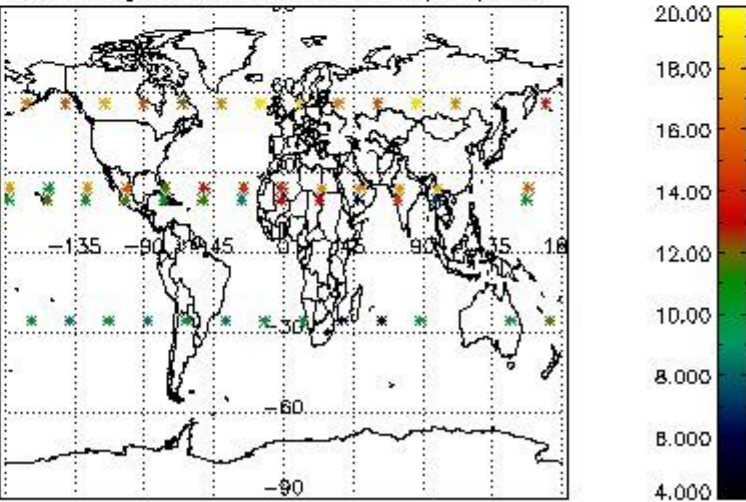
Percentage of datation errors per profile



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

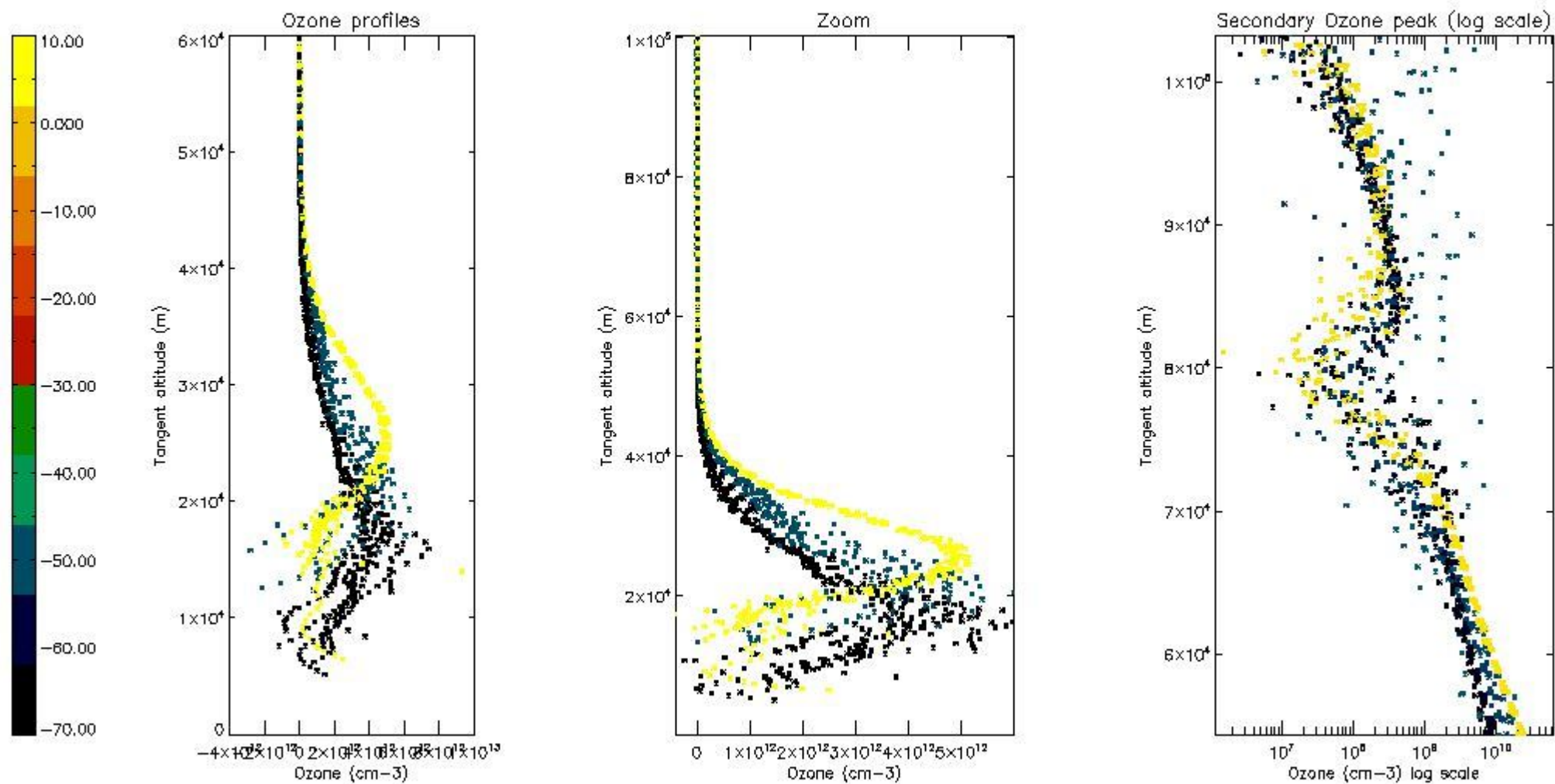
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	28
STD < 20	21

STD < 10	18
STD < 5	14

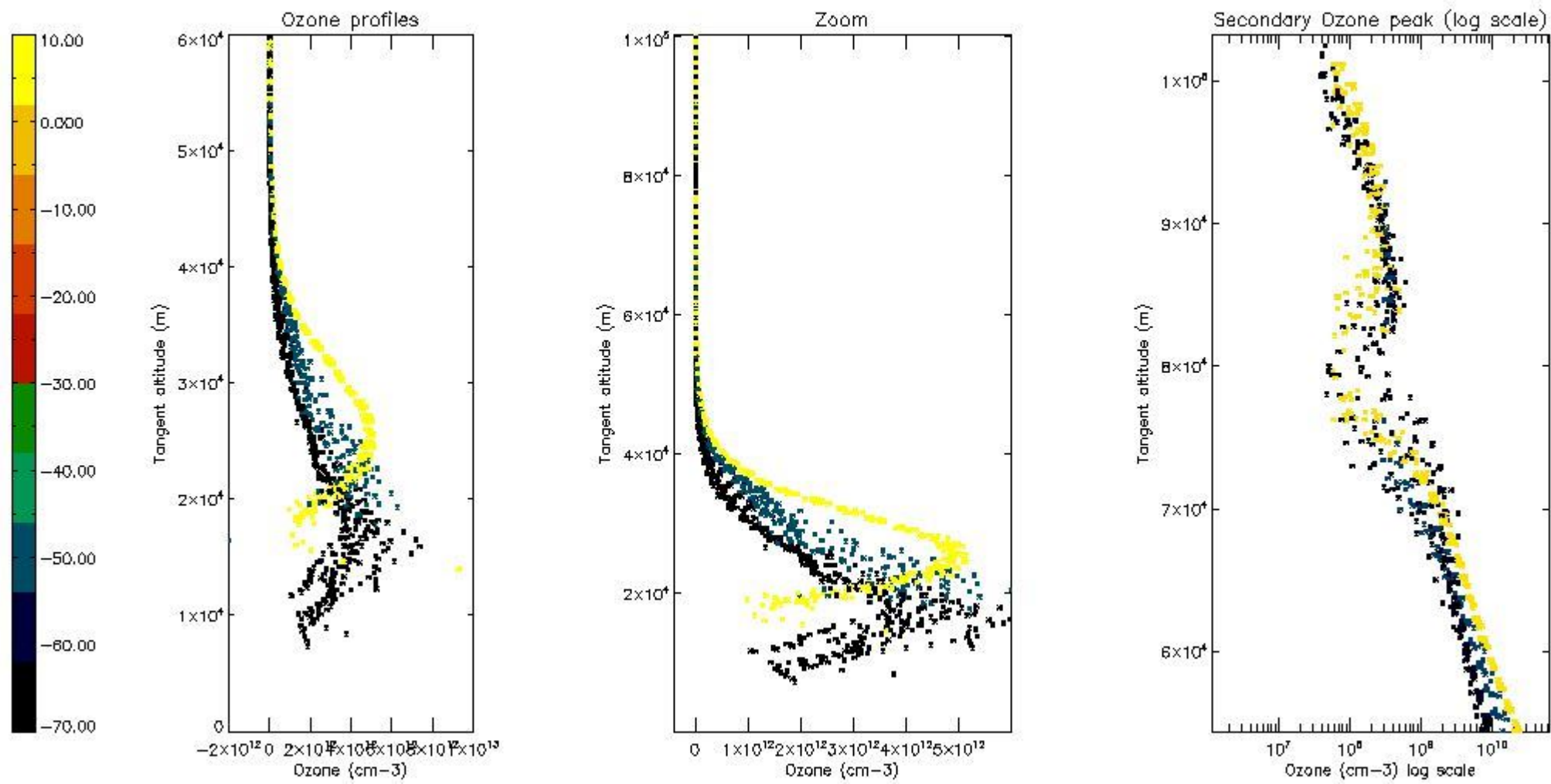
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



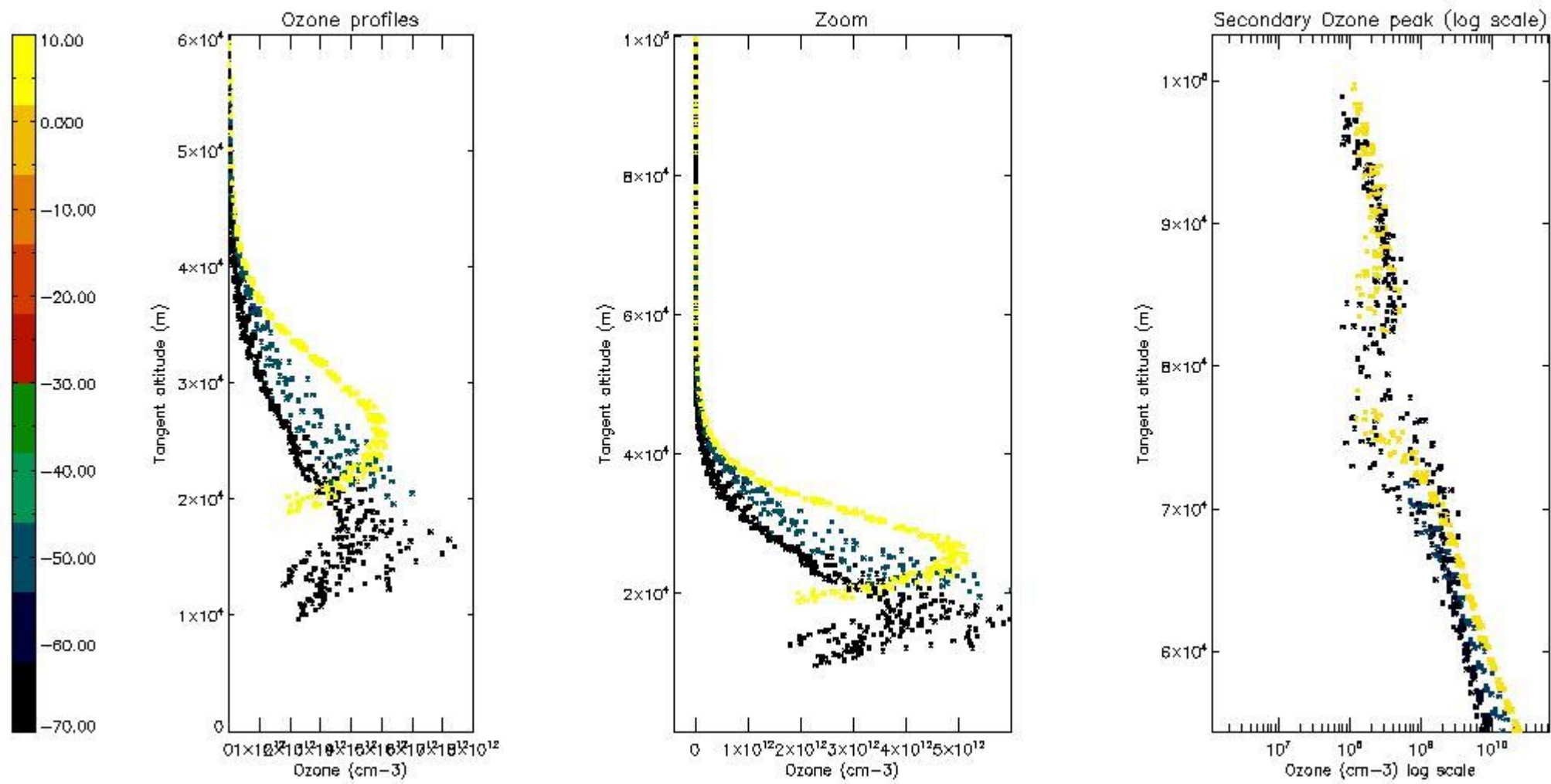
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



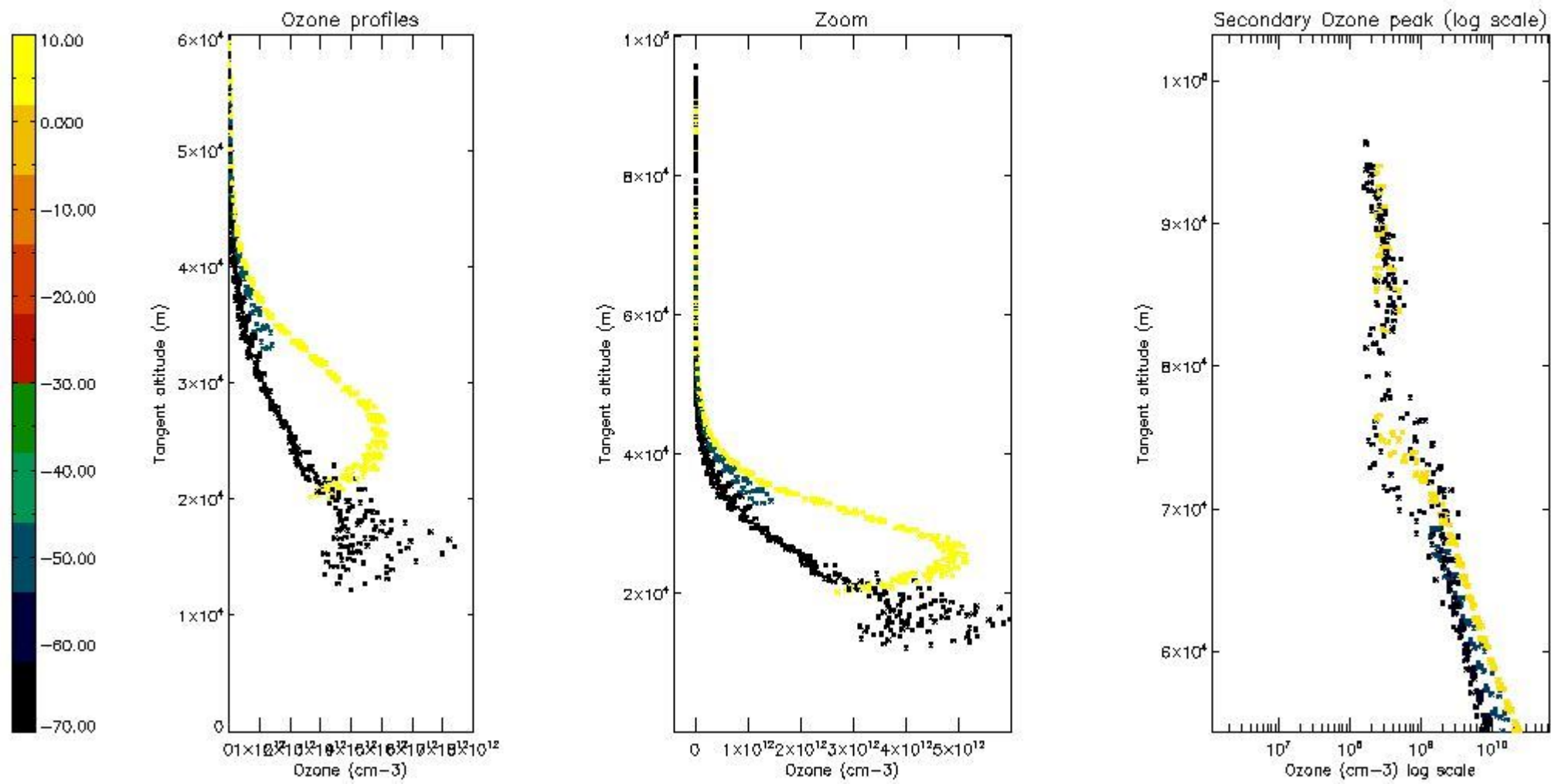
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



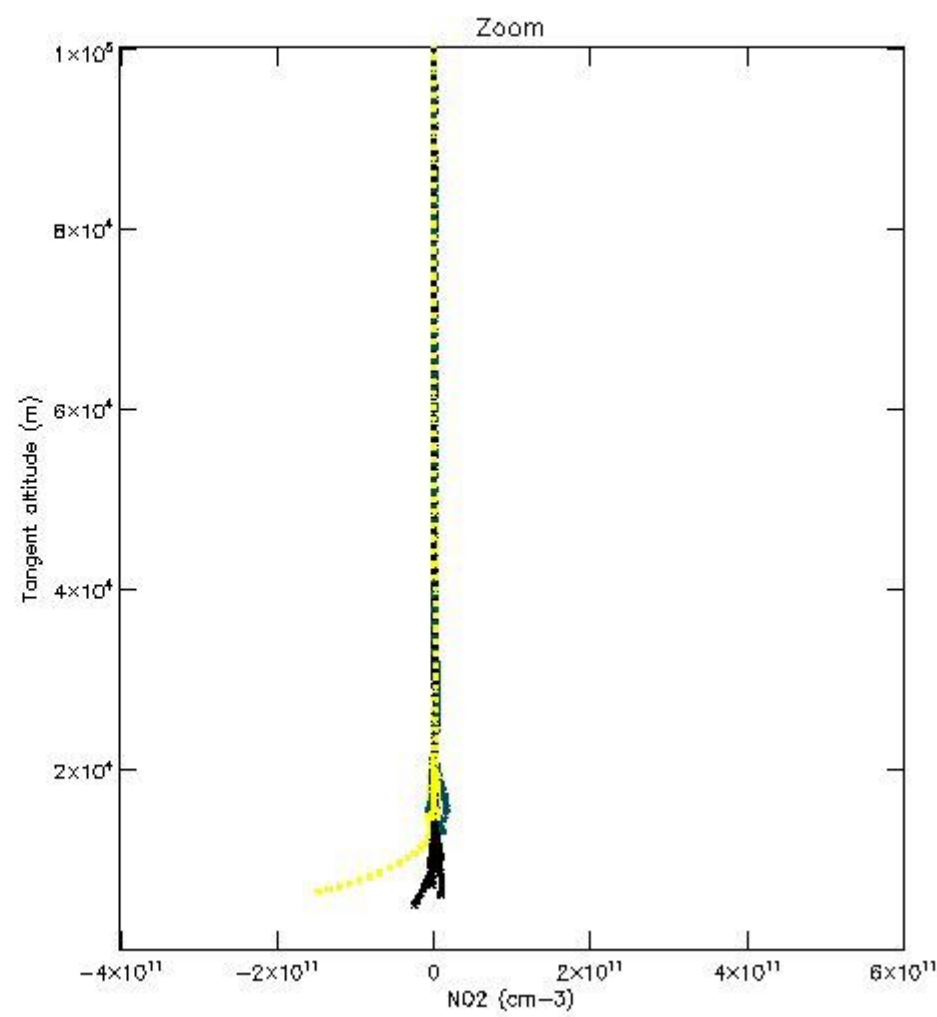
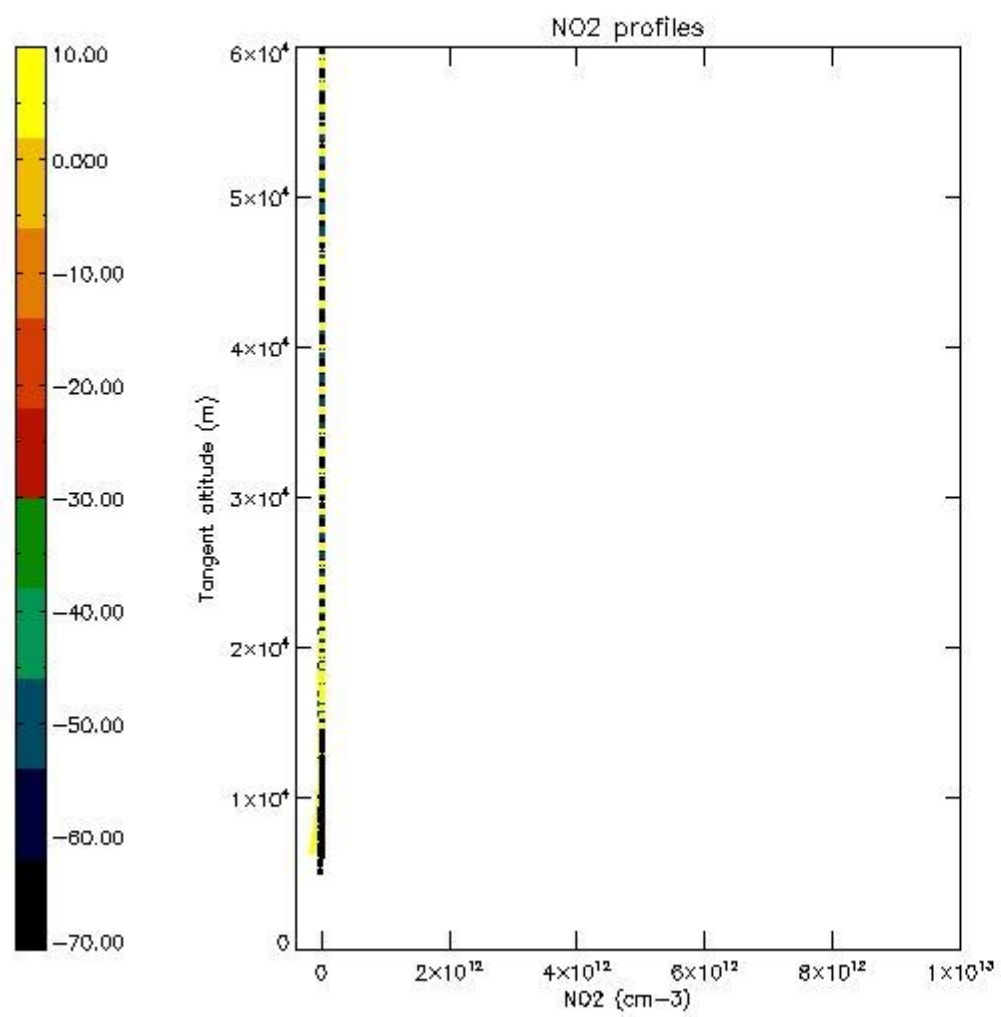
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



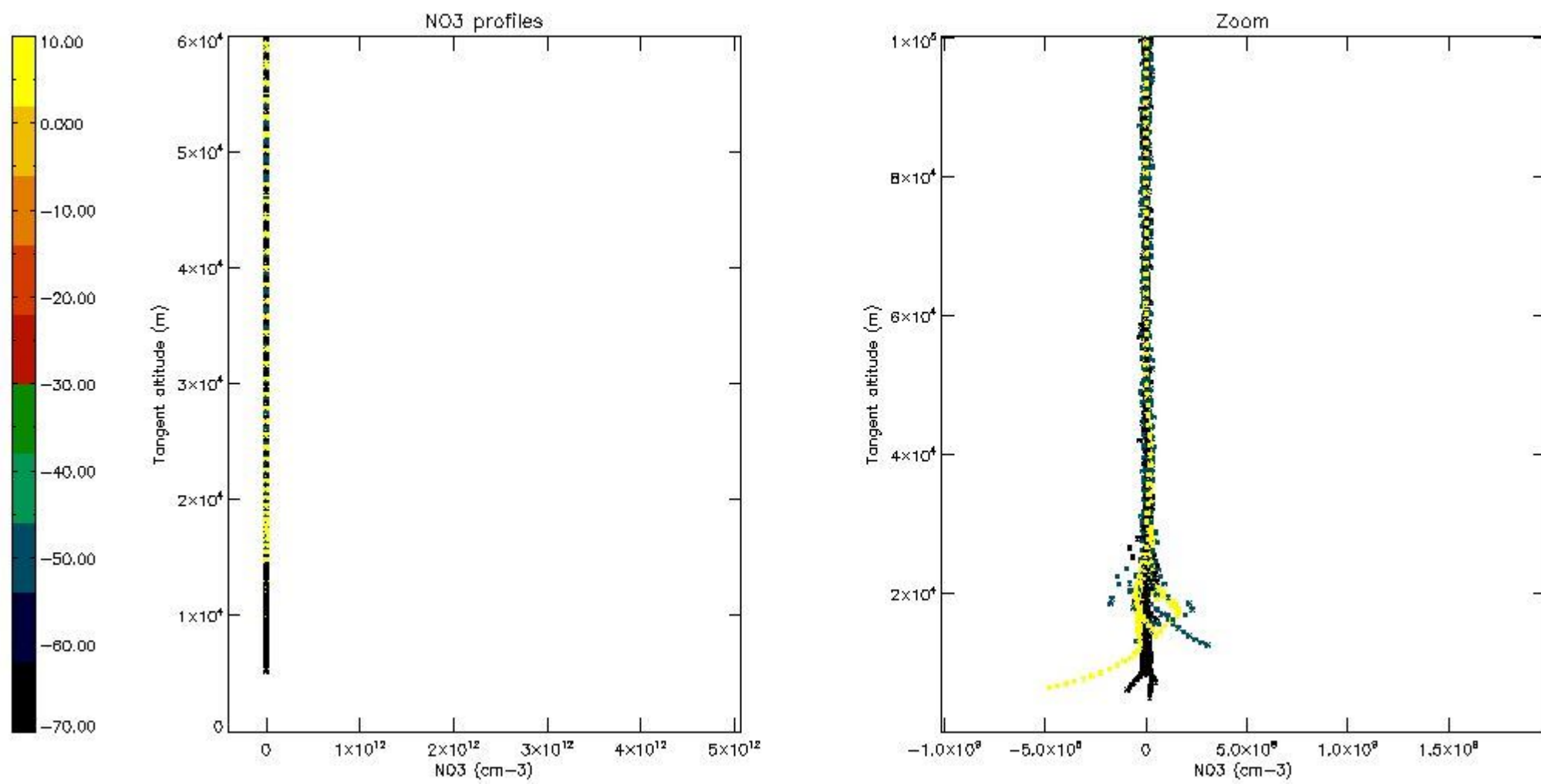
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



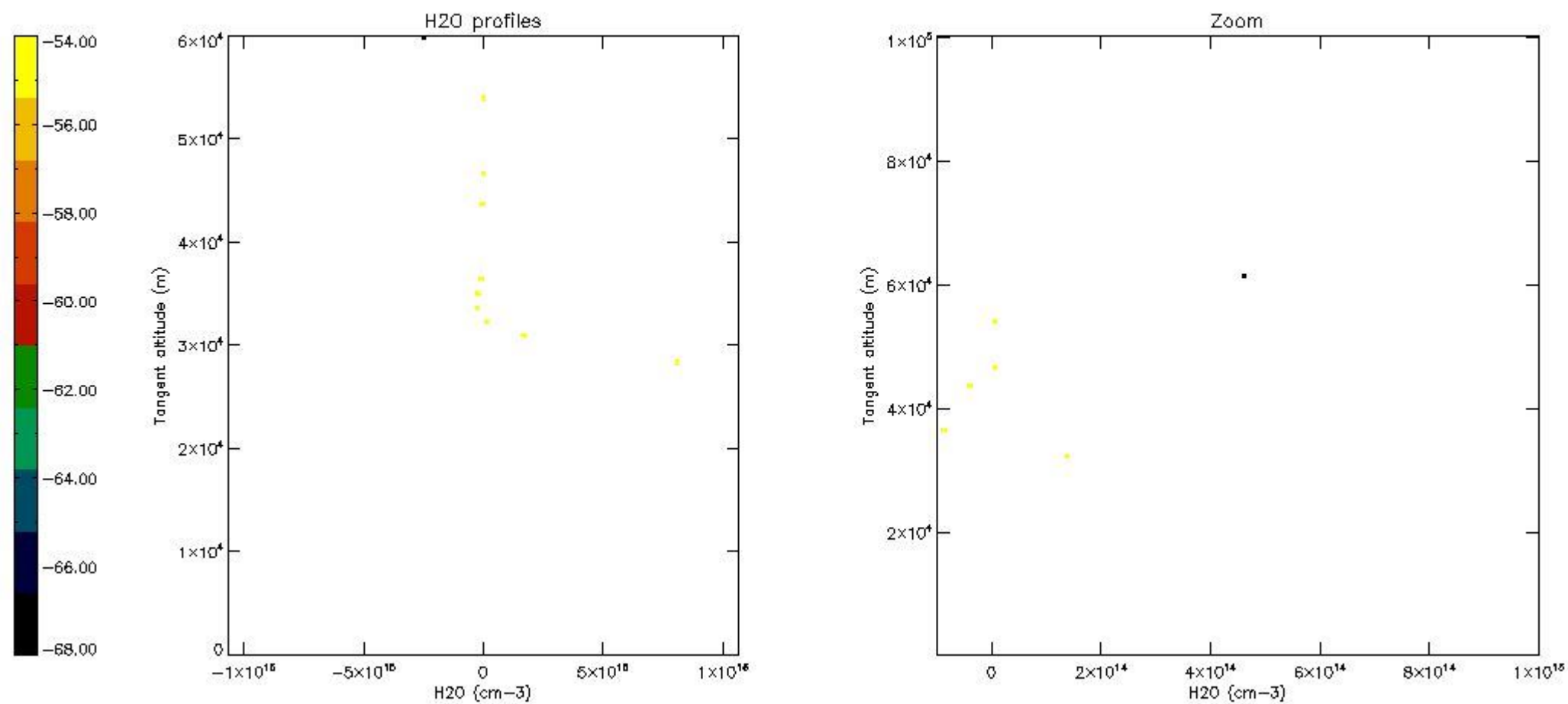
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



5.8 Plot H₂O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors)

The colorbar represents the latitude.



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

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	14-AUG-2006 03:00:11
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	14-AUG-2006 03:00:11
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	14-AUG-2006 03:00:11

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

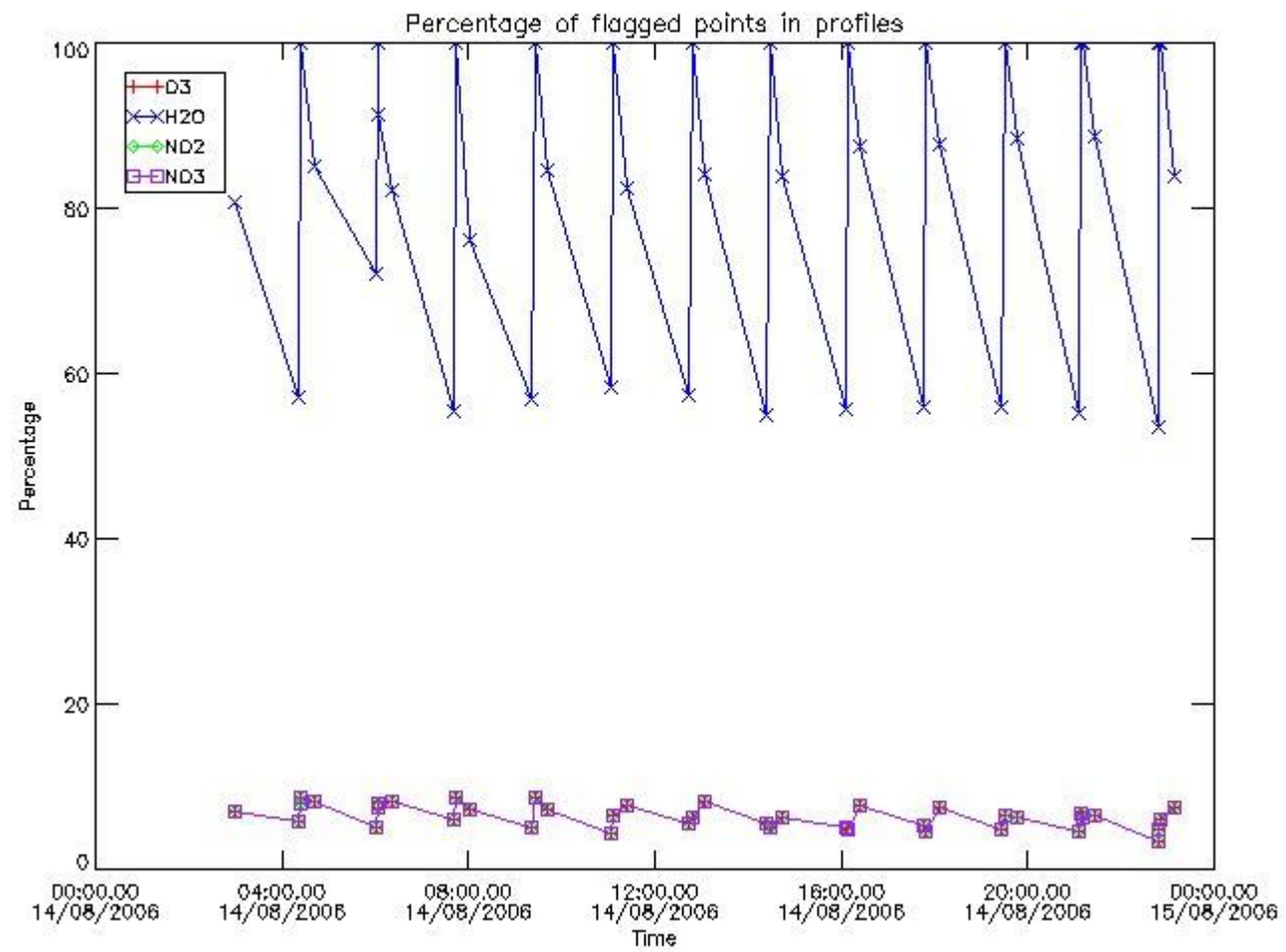
[5.7 Plot NO3 profiles for all STD \(dark without errors\)](#)

[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](#)

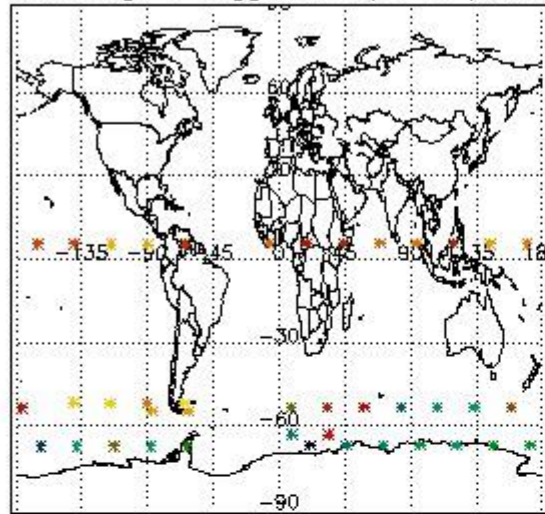
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

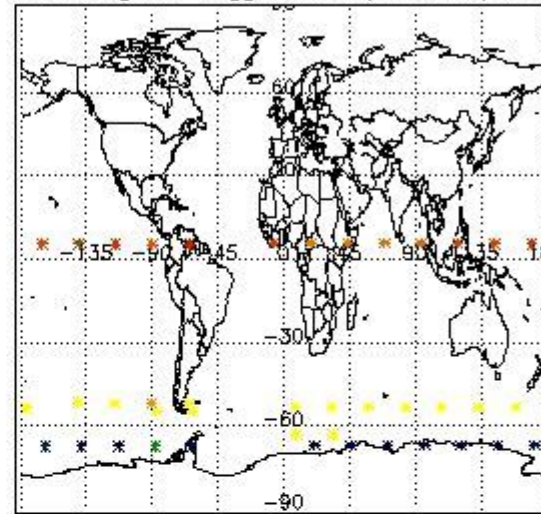


3.2 Plot quality information per product (world map)

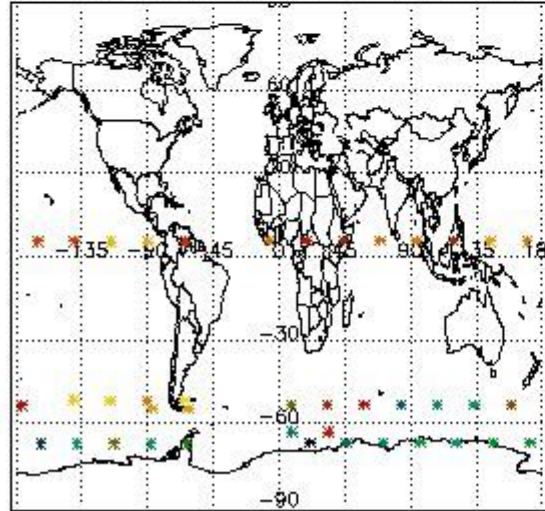
Percentage of flagged data per O3 profile



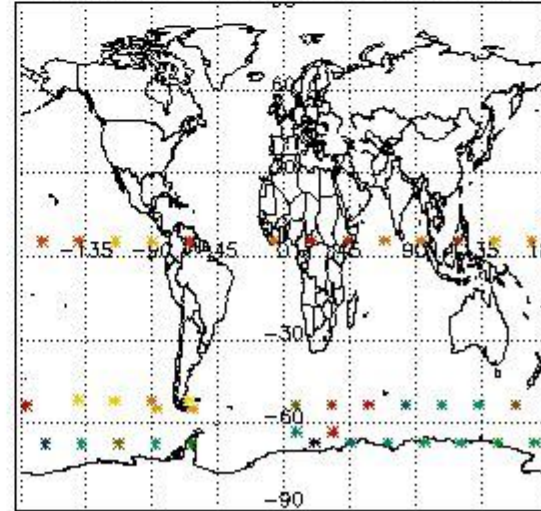
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

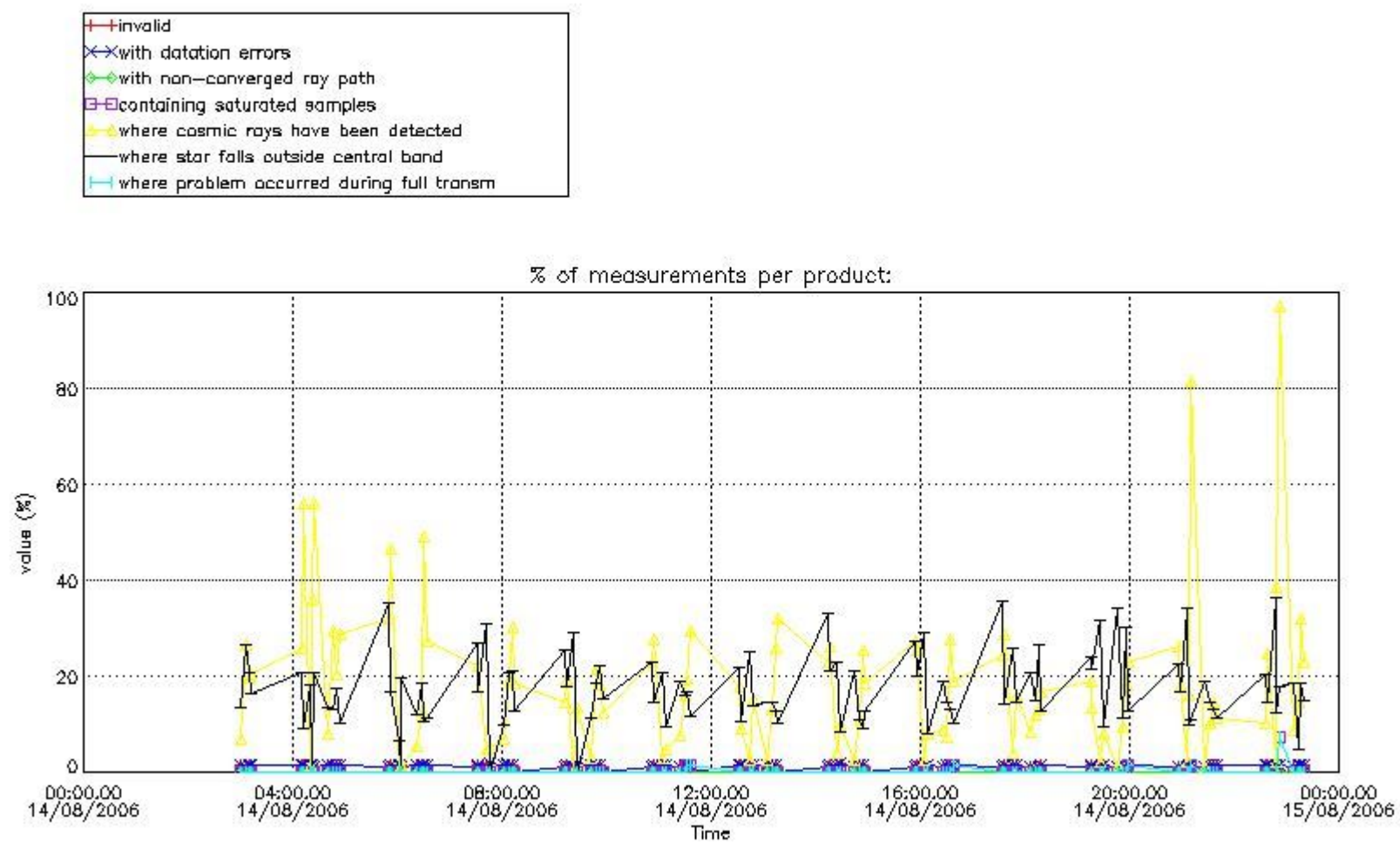


4. Level 1 quality information per product

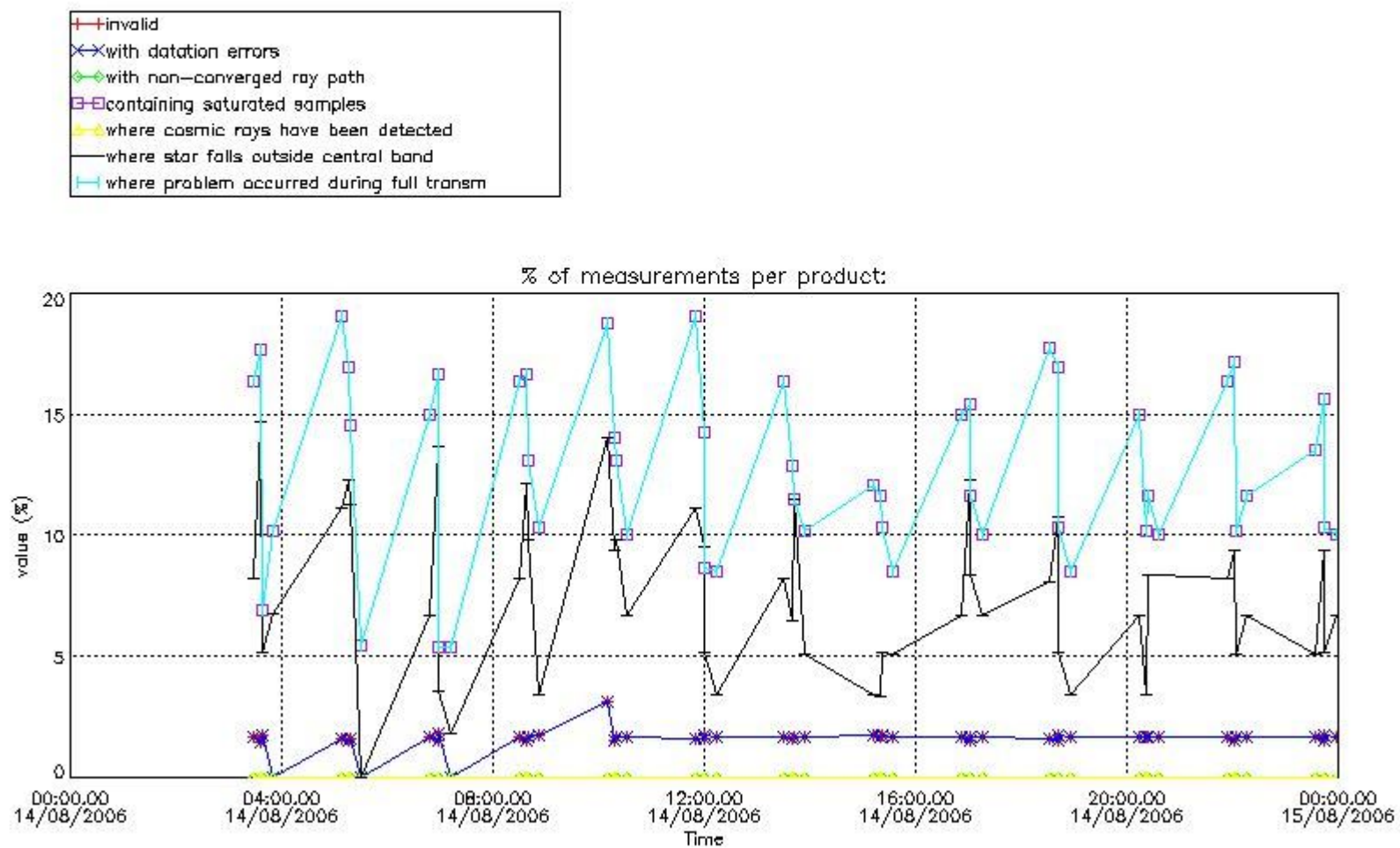
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



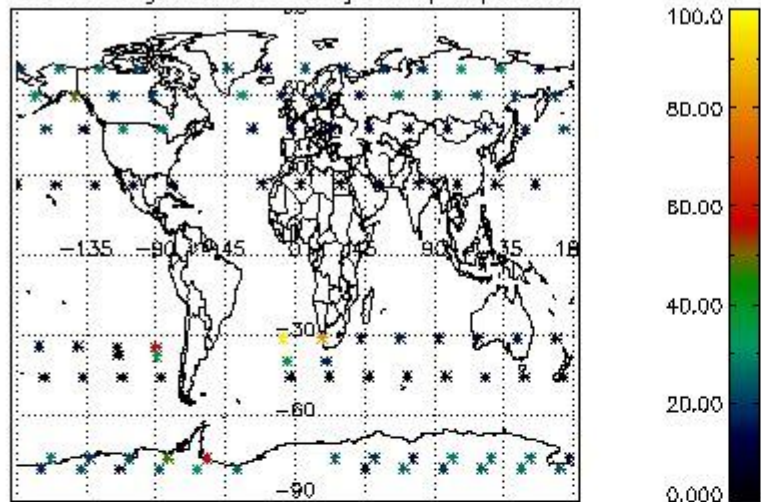
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



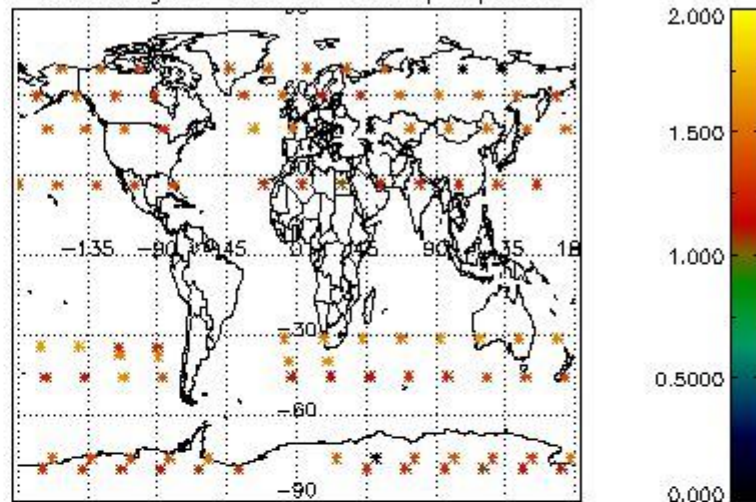
4.2 Plot quality information per product coming from level 1b processing (world map)

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

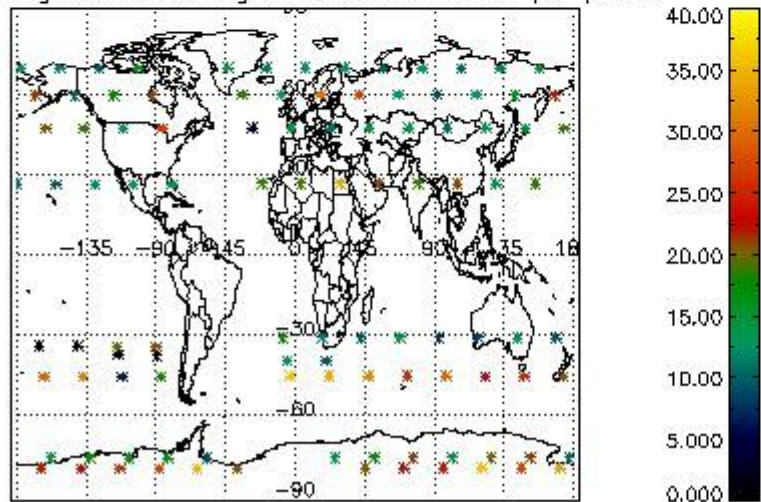
Percentage of cosmic ray hits per profile



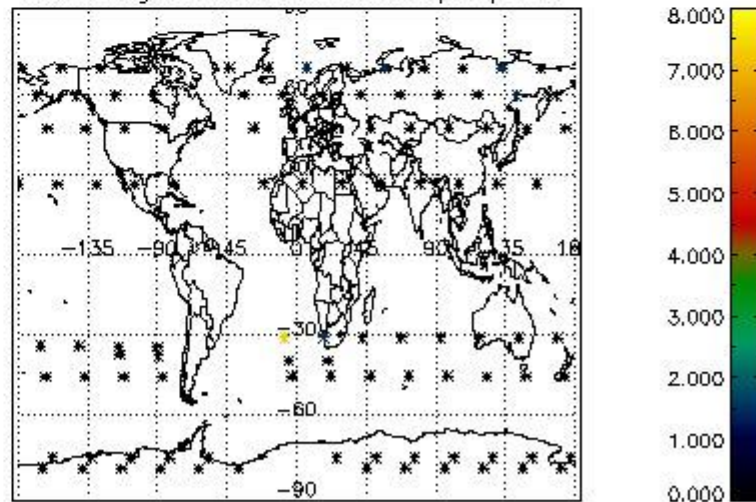
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

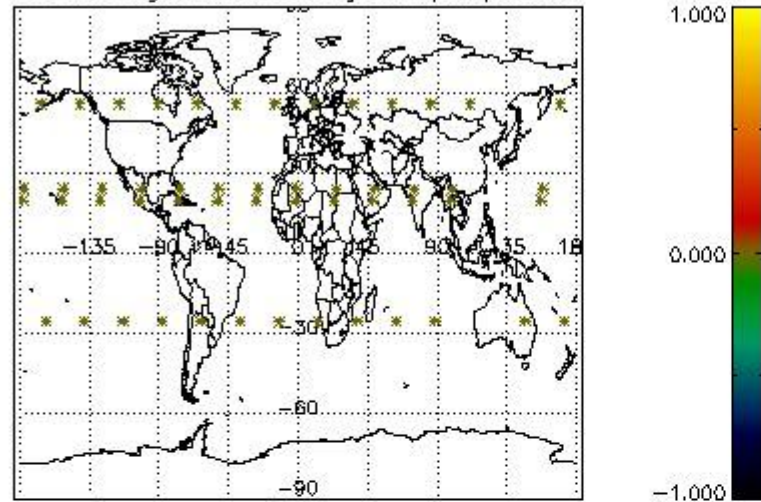


Percentage of saturation errors per profile

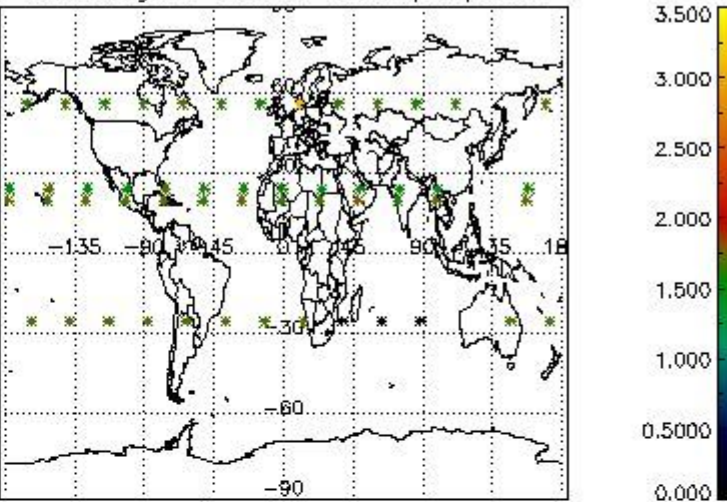


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

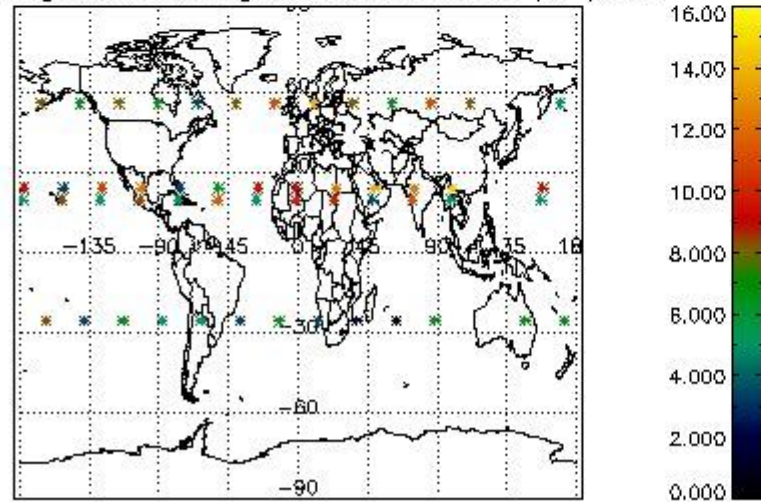
Percentage of cosmic ray hits per profile



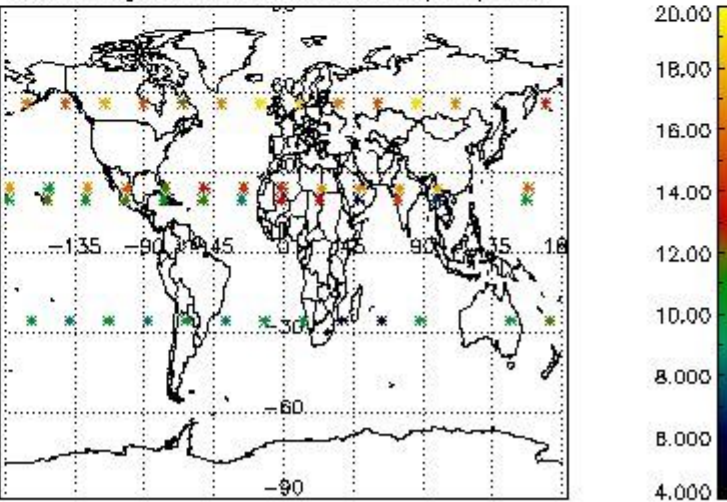
Percentage of datation errors per profile



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

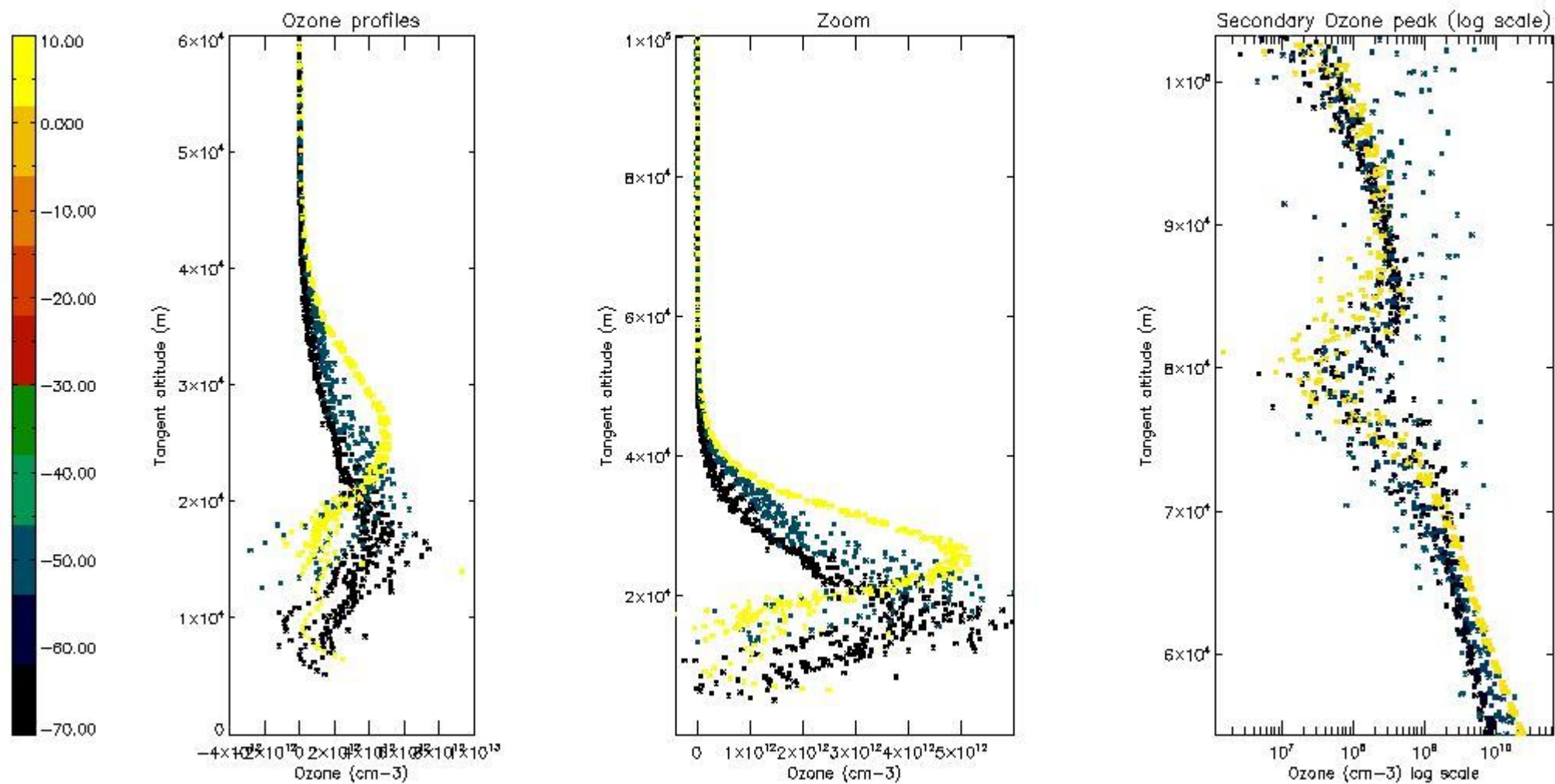
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	28
STD < 20	21

STD < 10	18
STD < 5	14

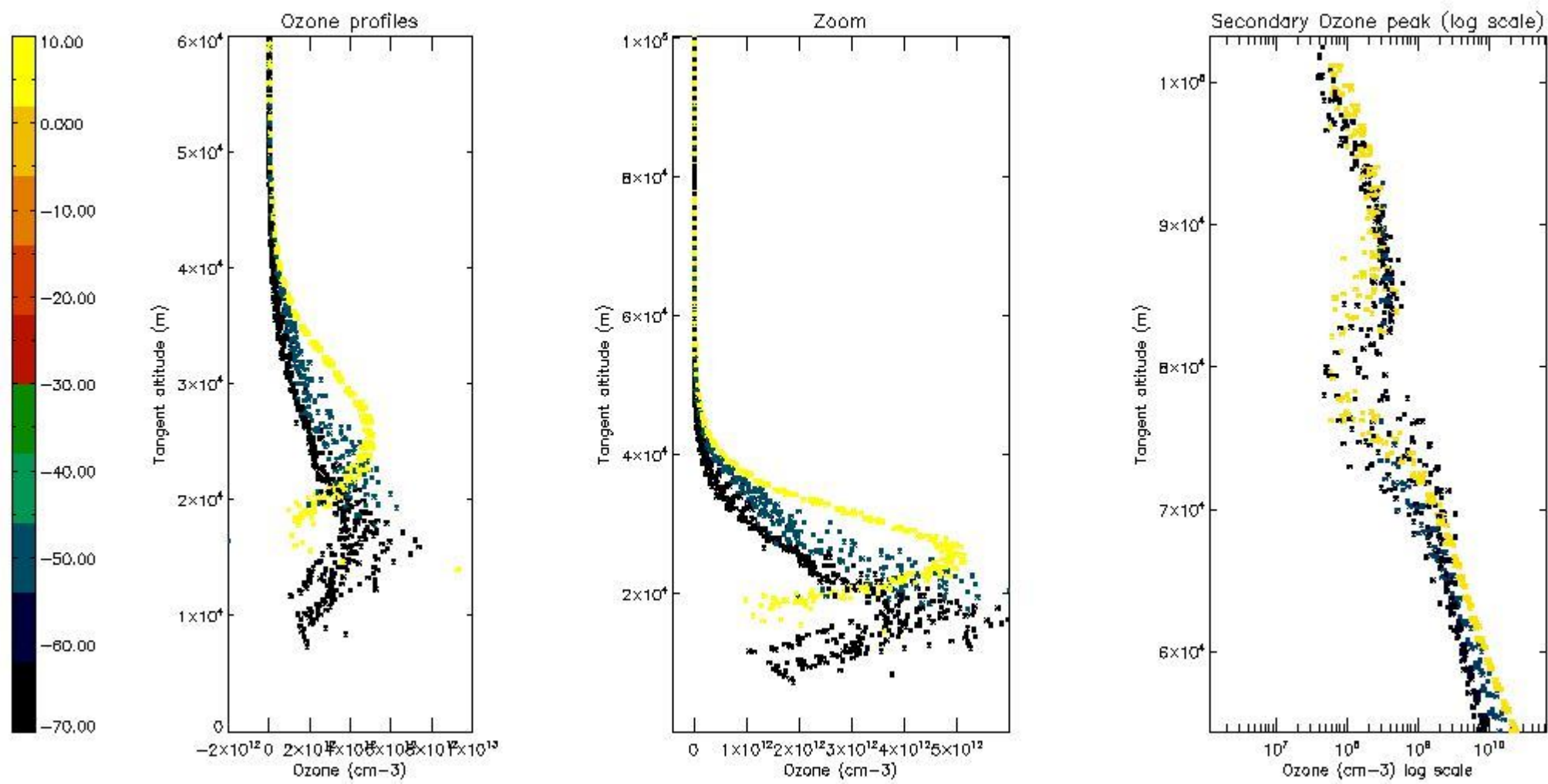
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



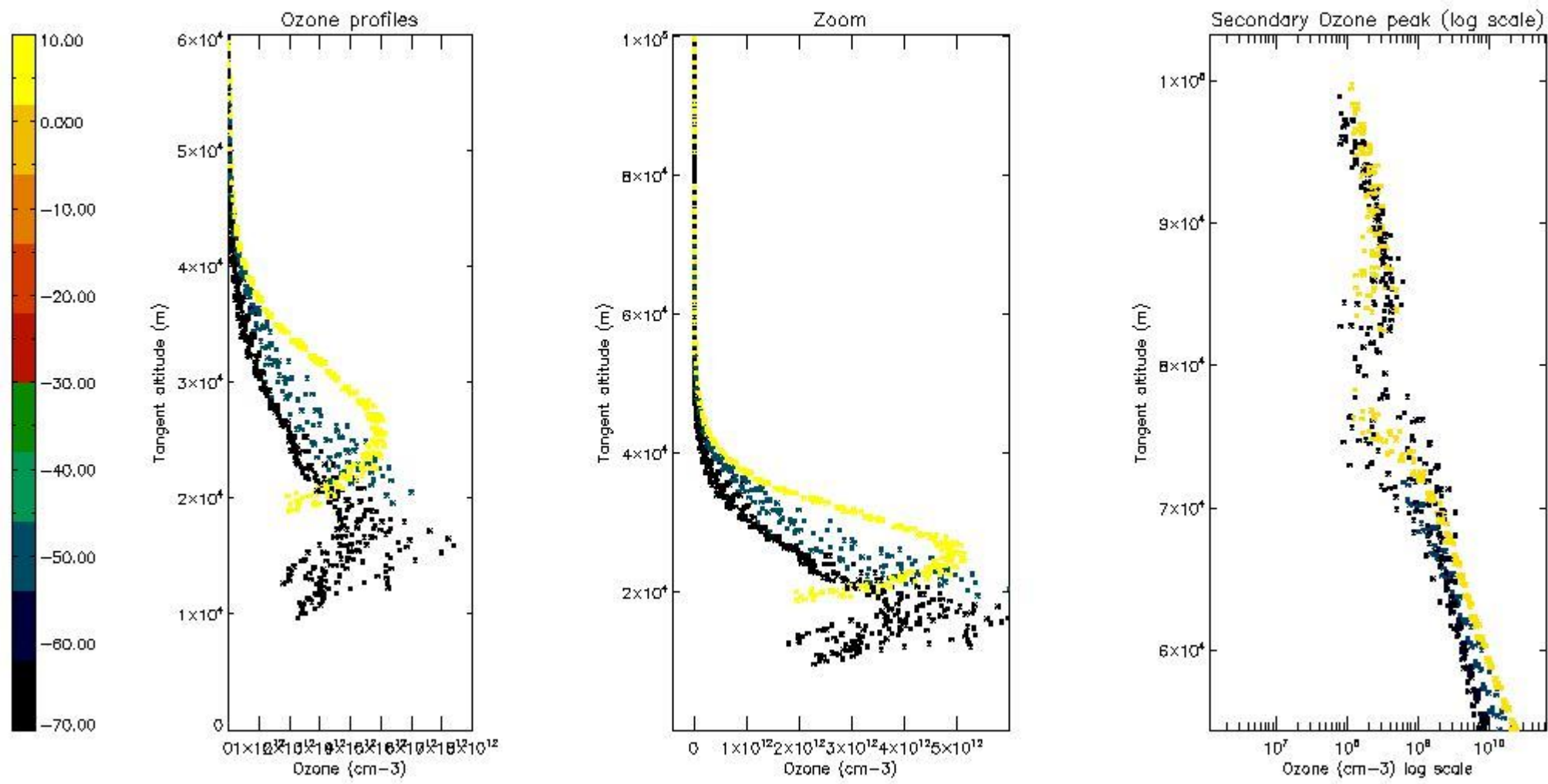
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



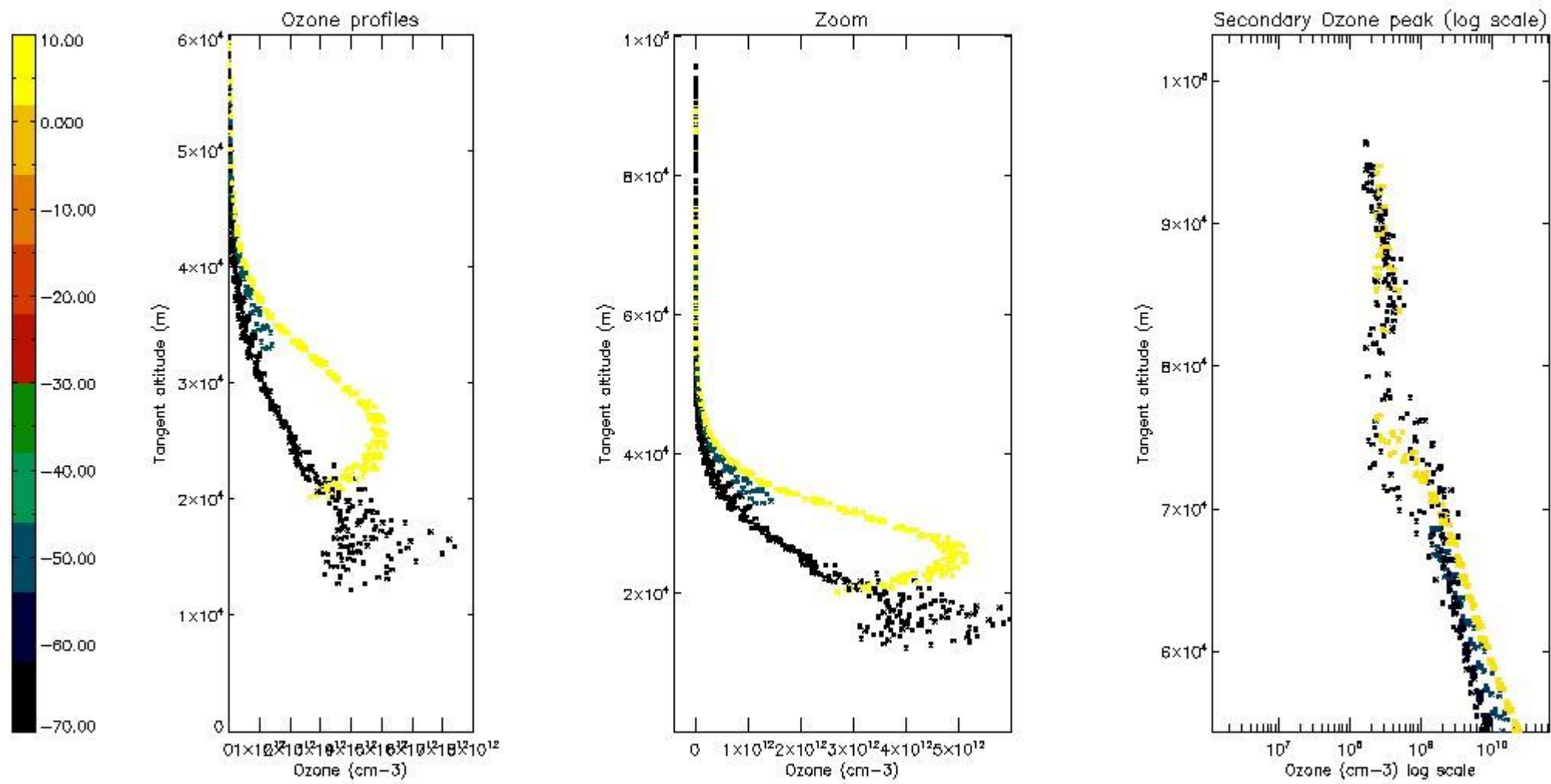
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



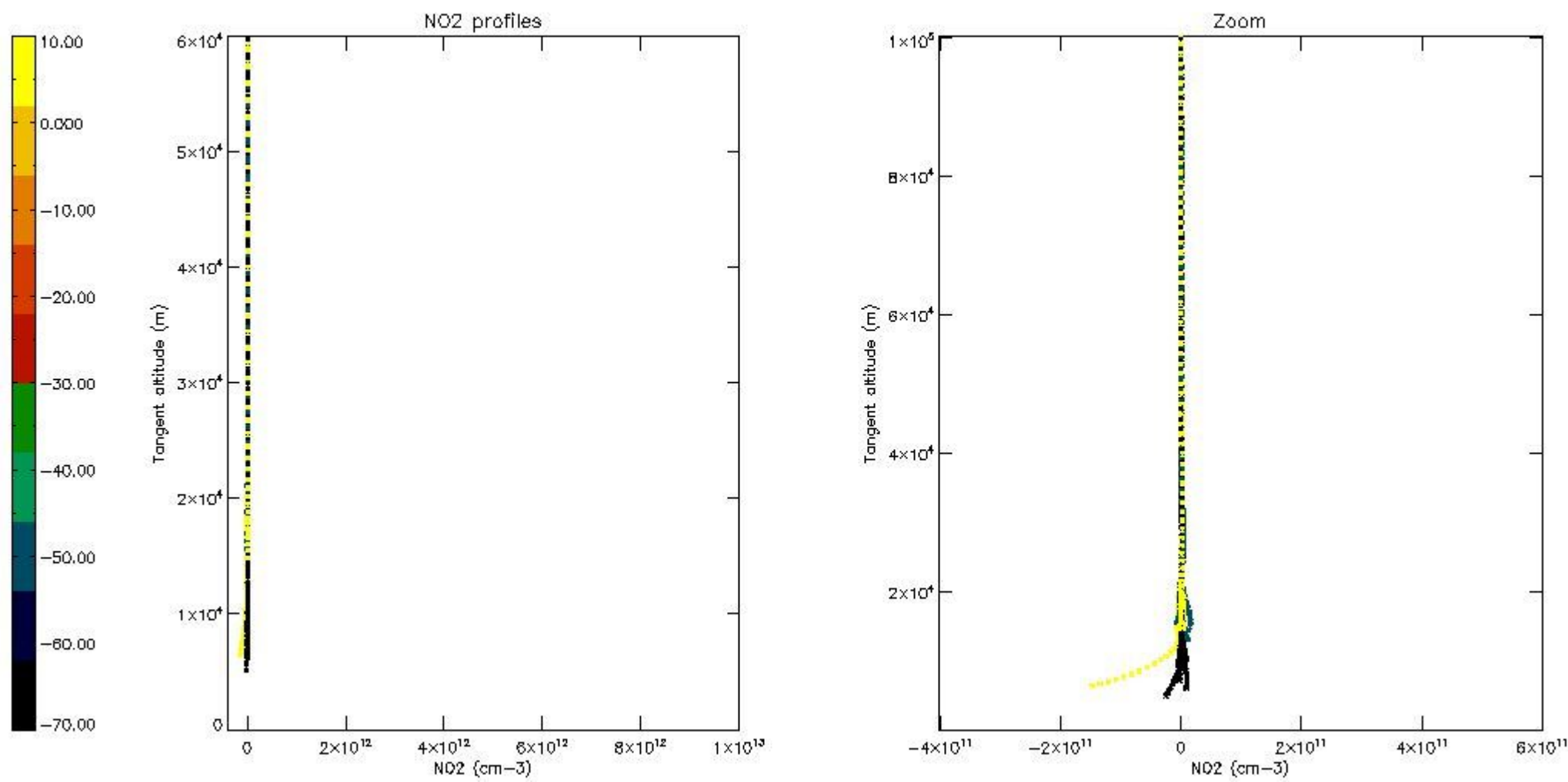
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



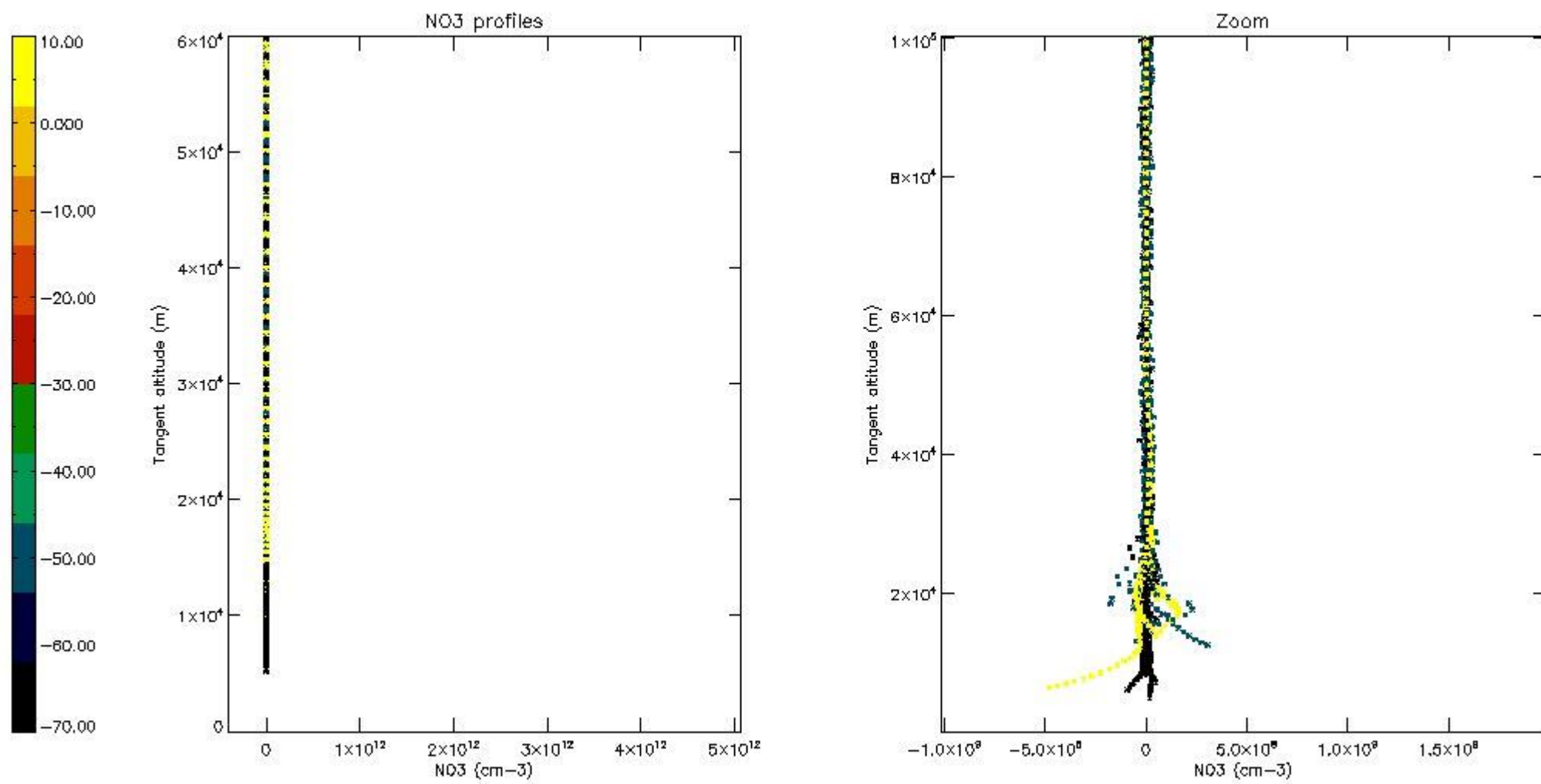
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



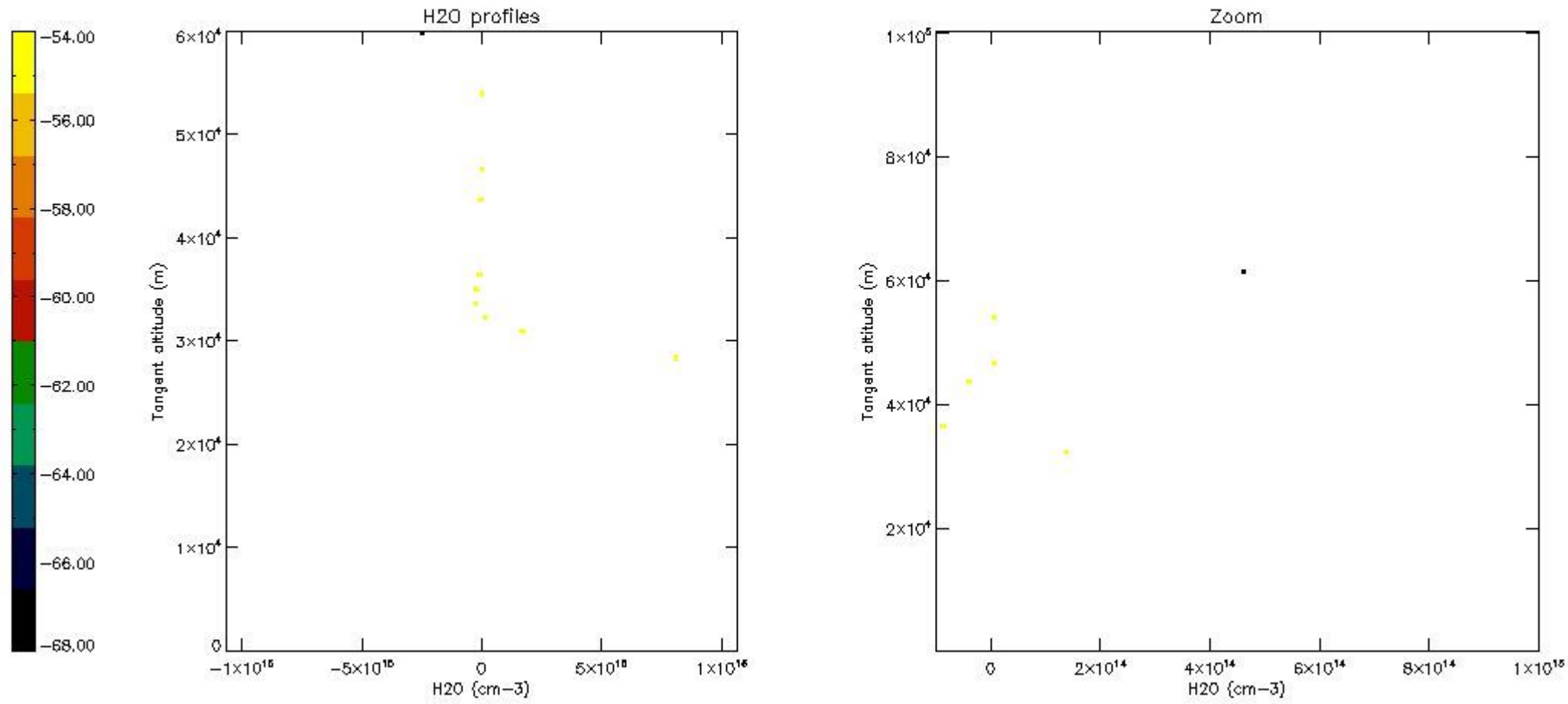
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



5.8 Plot H2O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors)

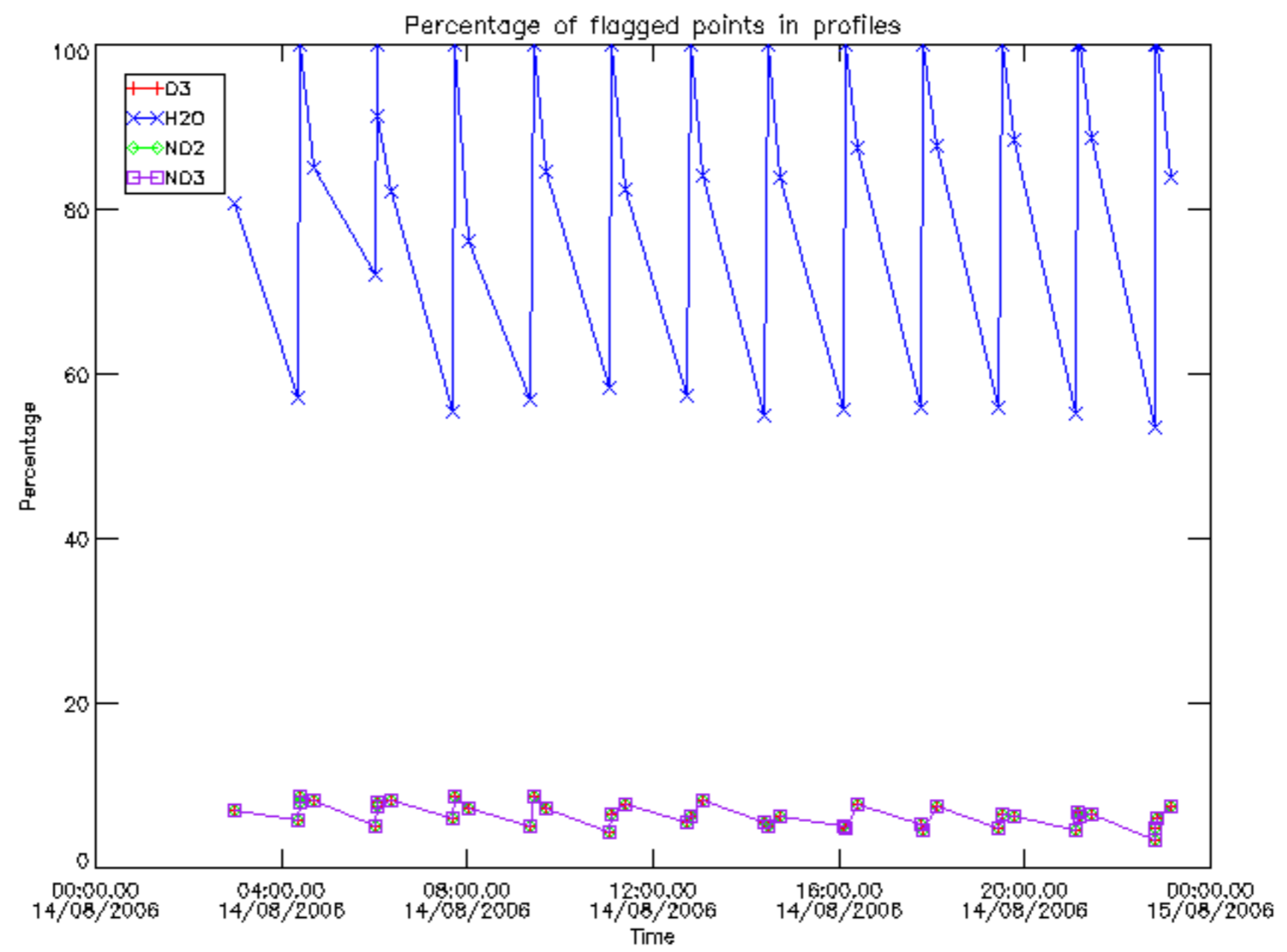
The colorbar represents the latitude.



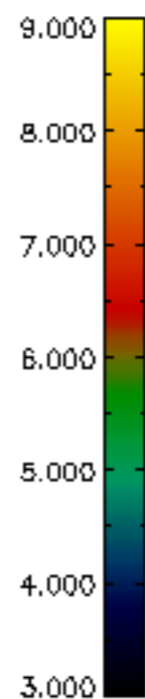
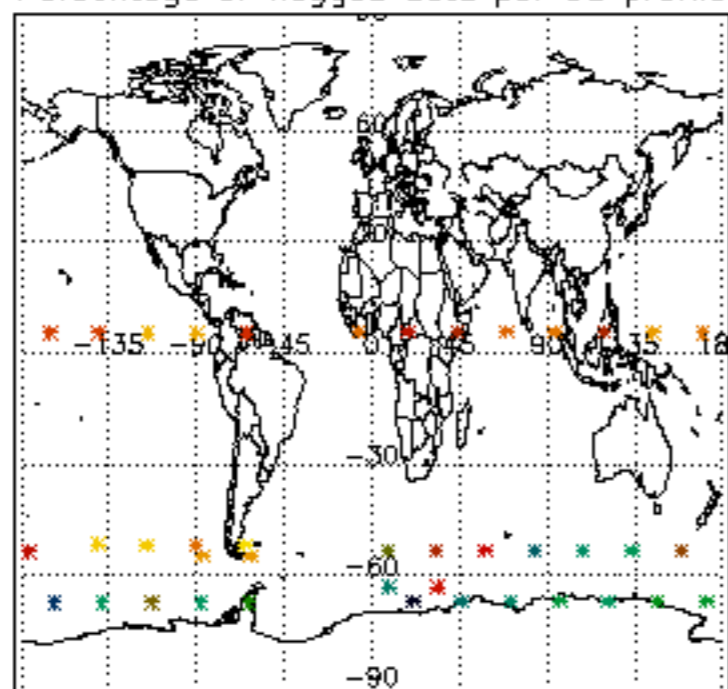
6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

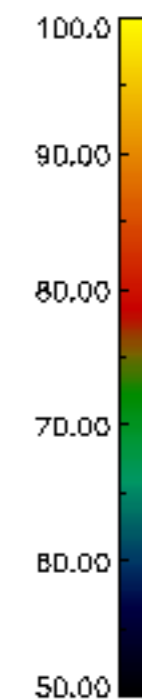
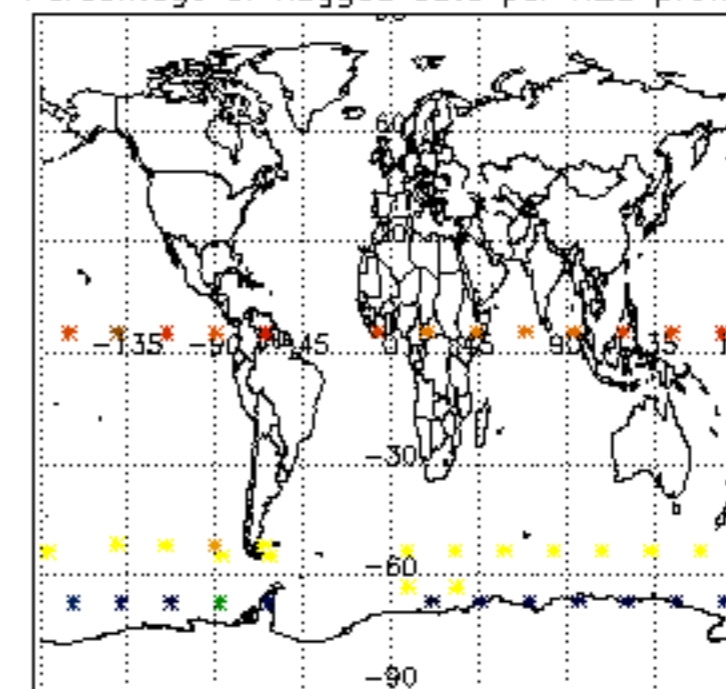
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	14-AUG-2006 03:00:11
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	14-AUG-2006 03:00:11
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	14-AUG-2006 03:00:11



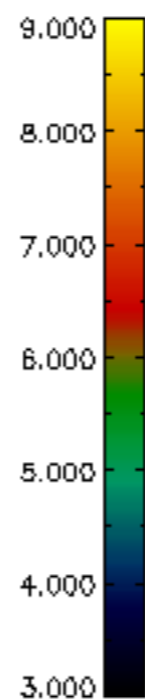
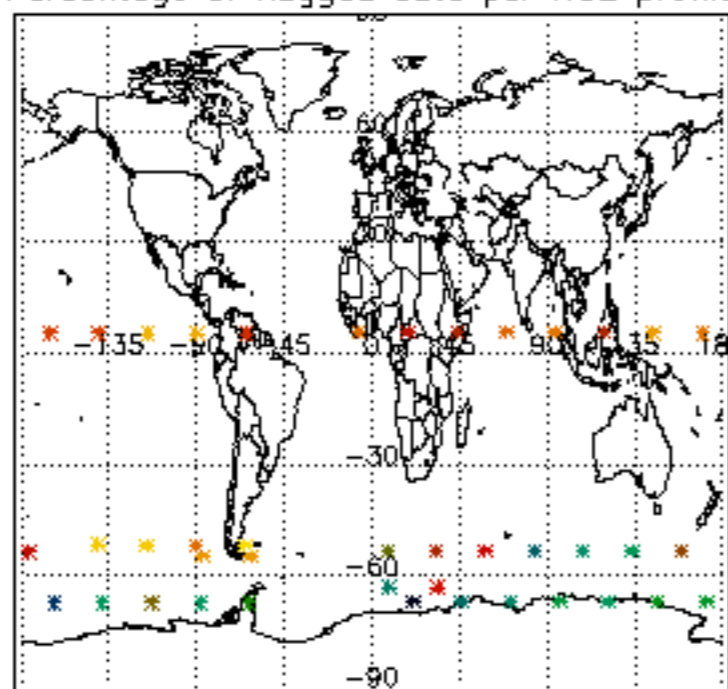
Percentage of flagged data per D3 profile



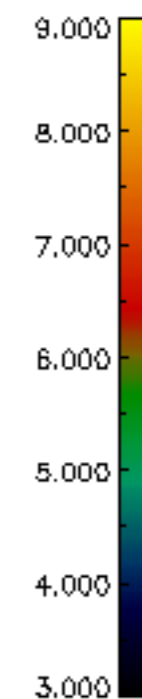
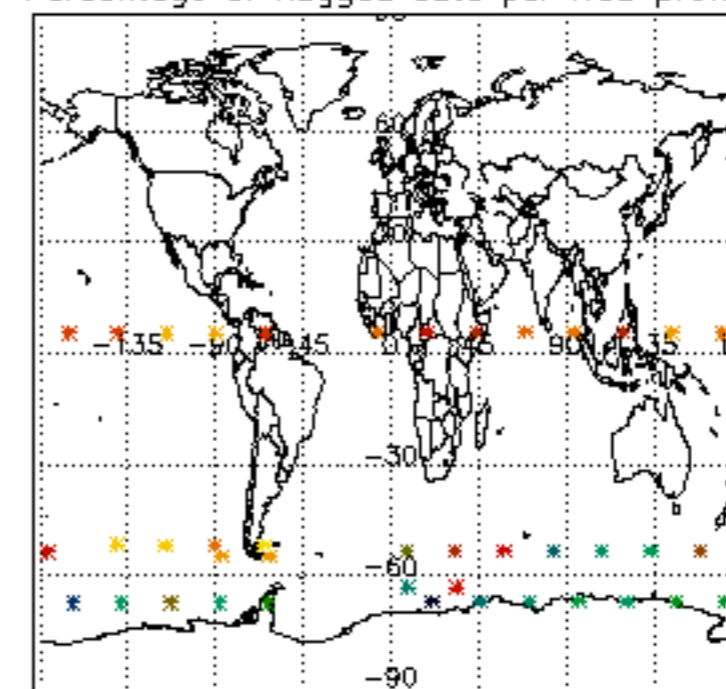
Percentage of flagged data per H2O profile

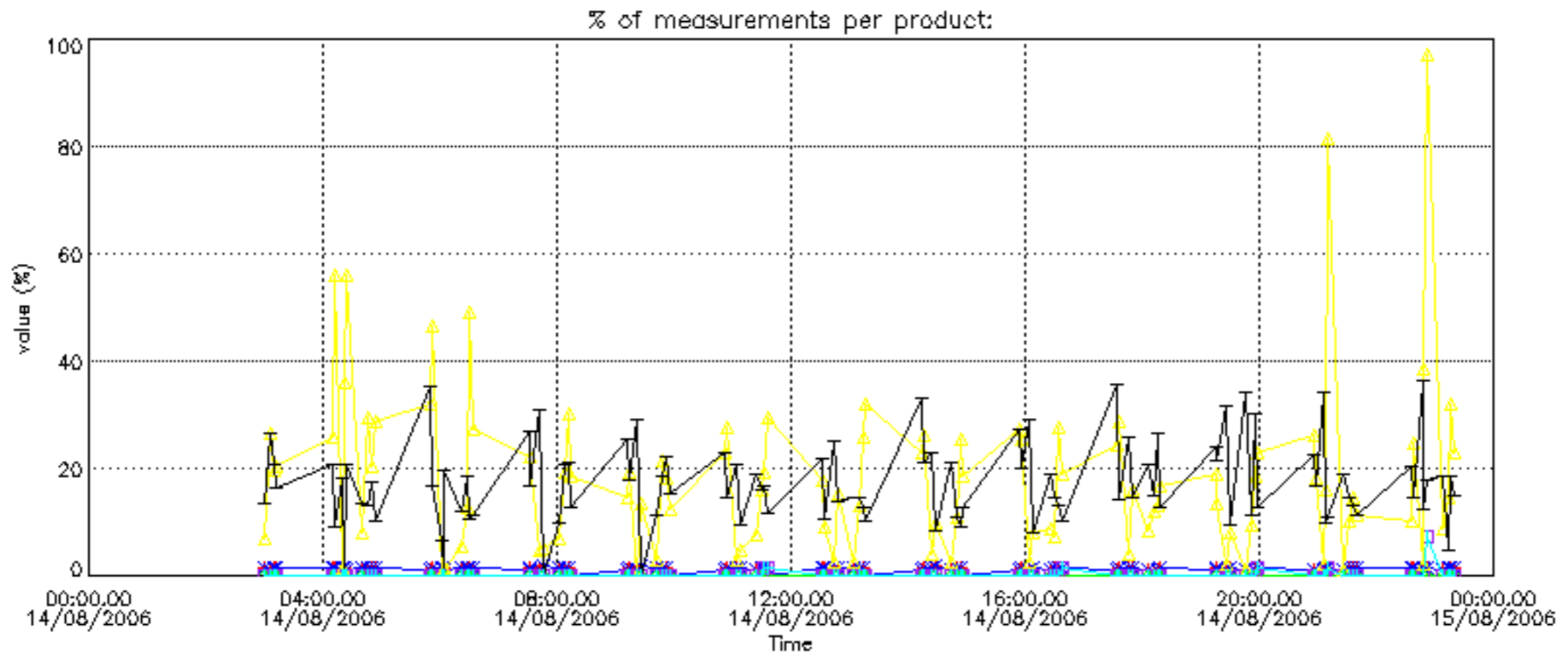


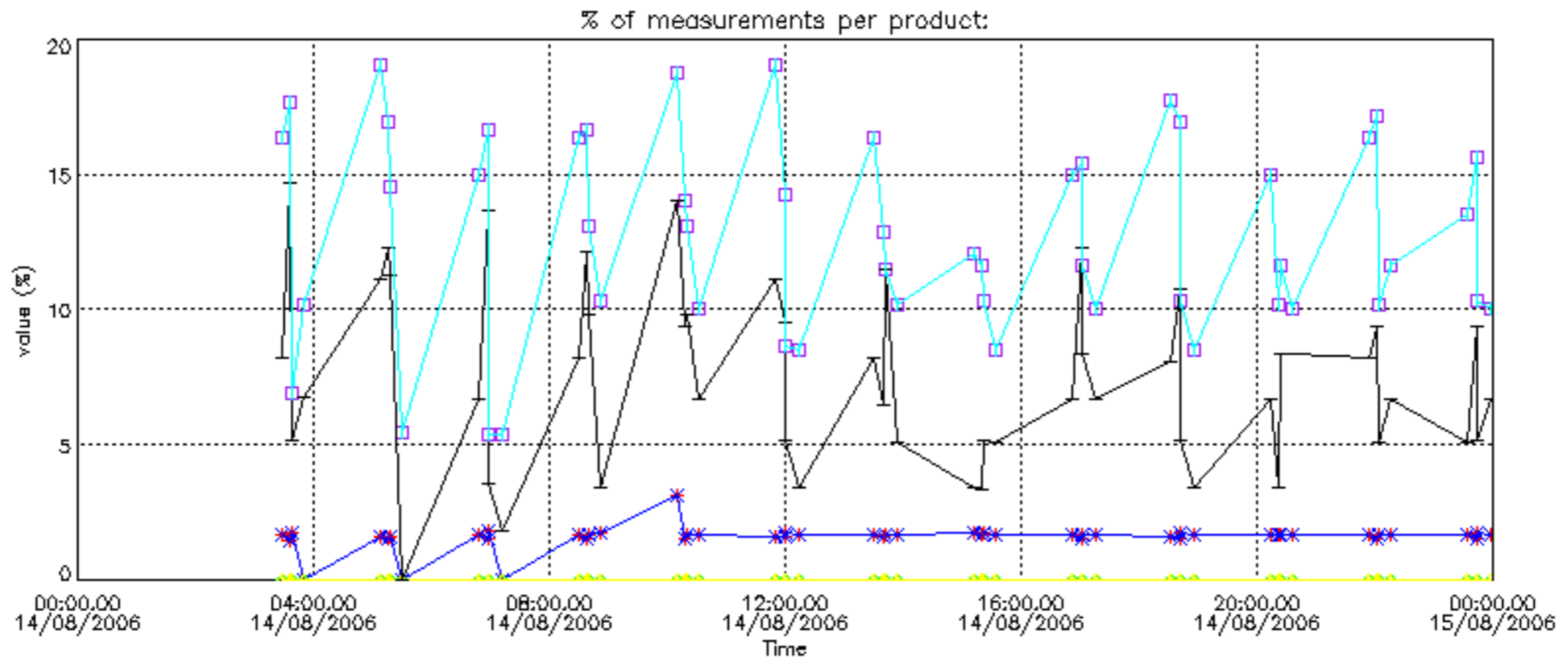
Percentage of flagged data per NO2 profile



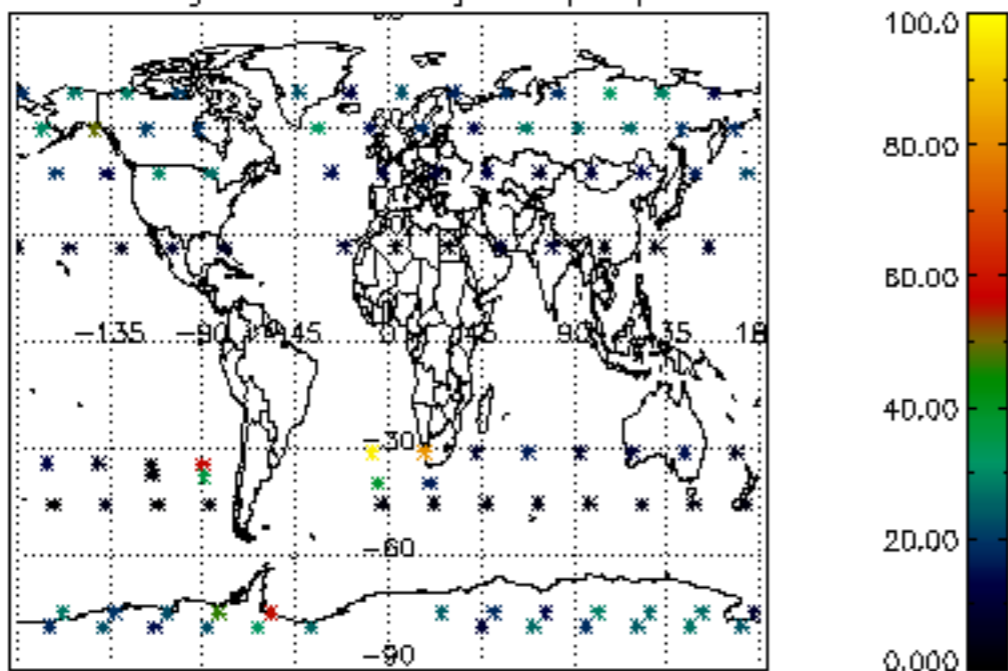
Percentage of flagged data per NO3 profile



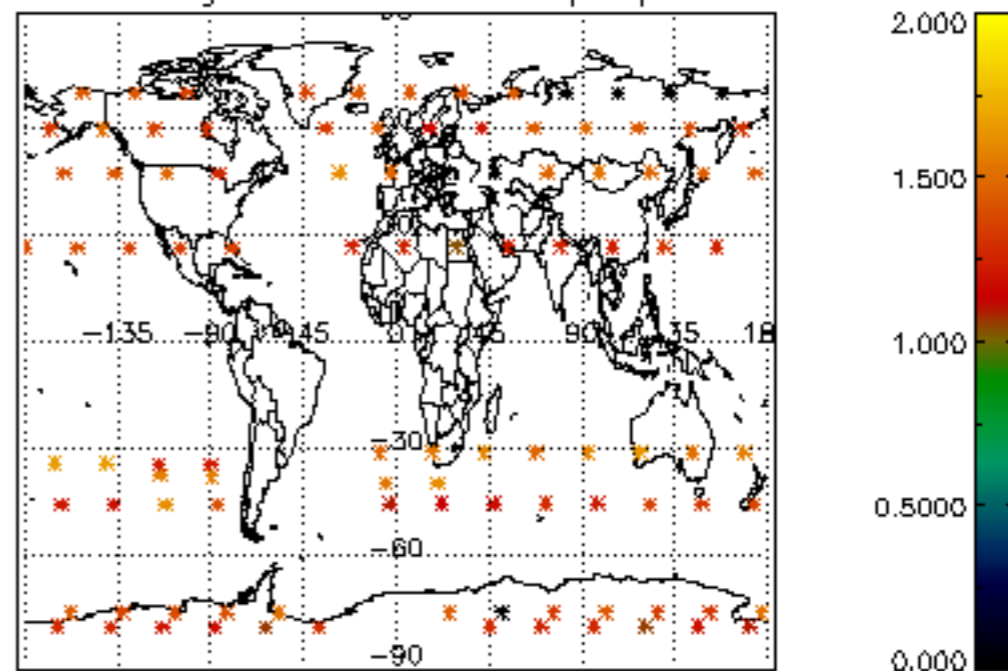




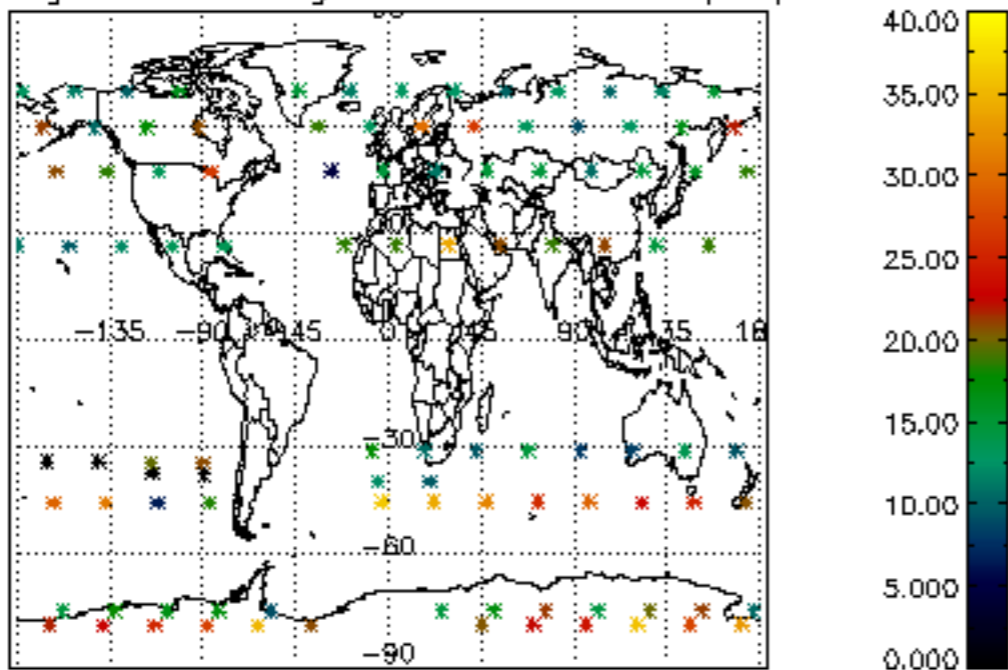
Percentage of cosmic ray hits per profile



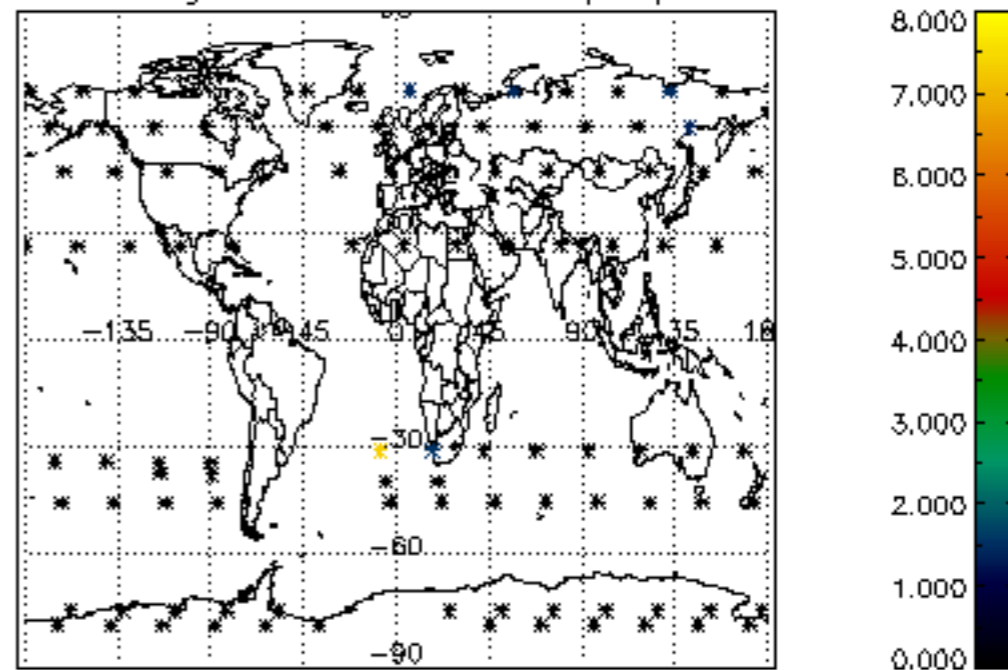
Percentage of datation errors per profile



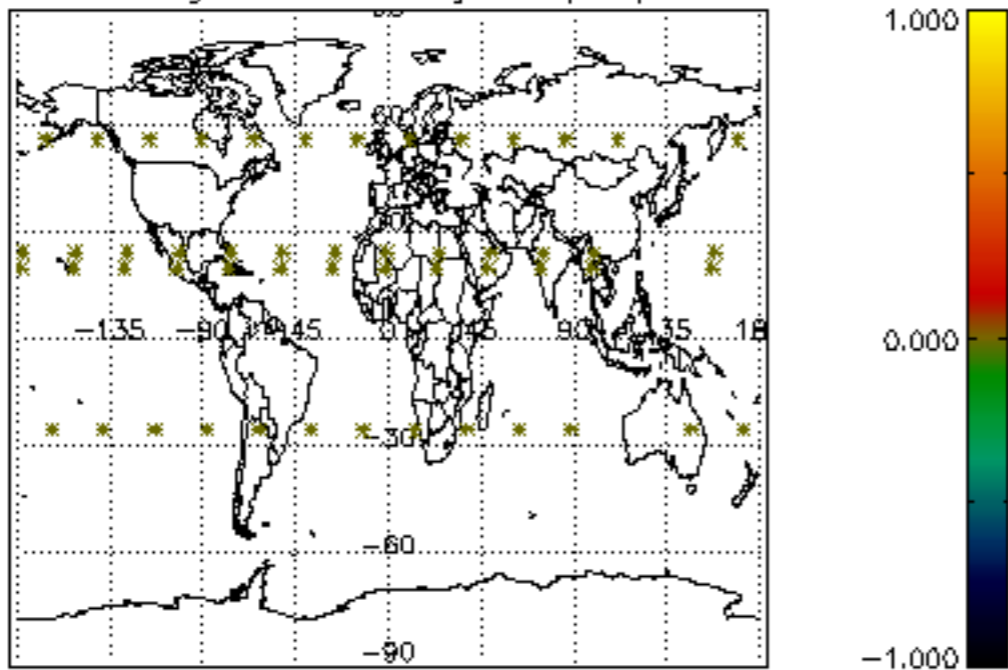
Percentage of star falling outside central band per profile



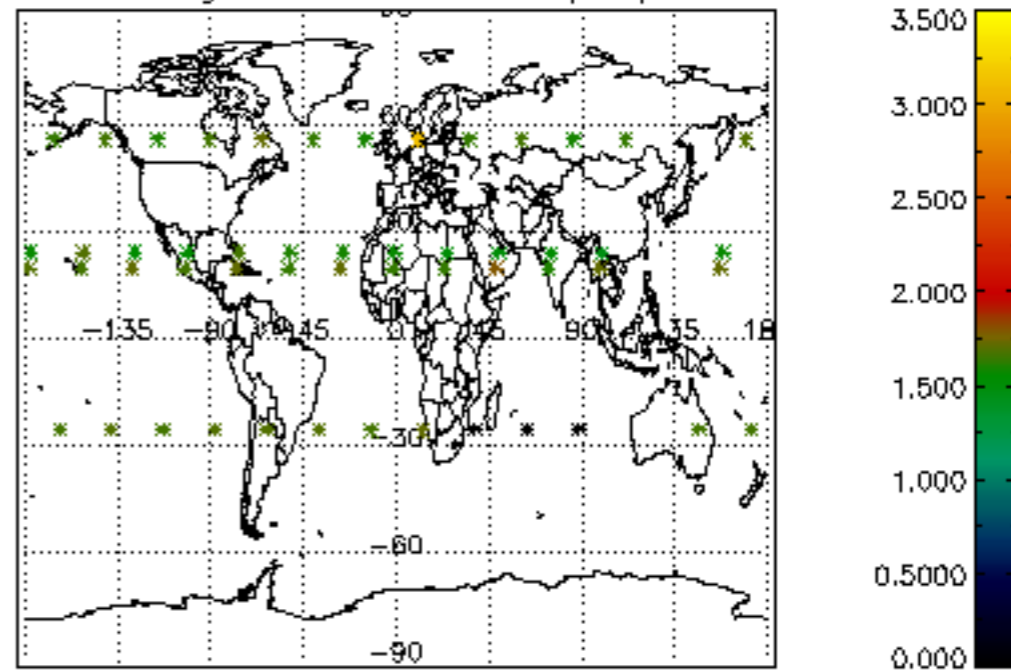
Percentage of saturation errors per profile



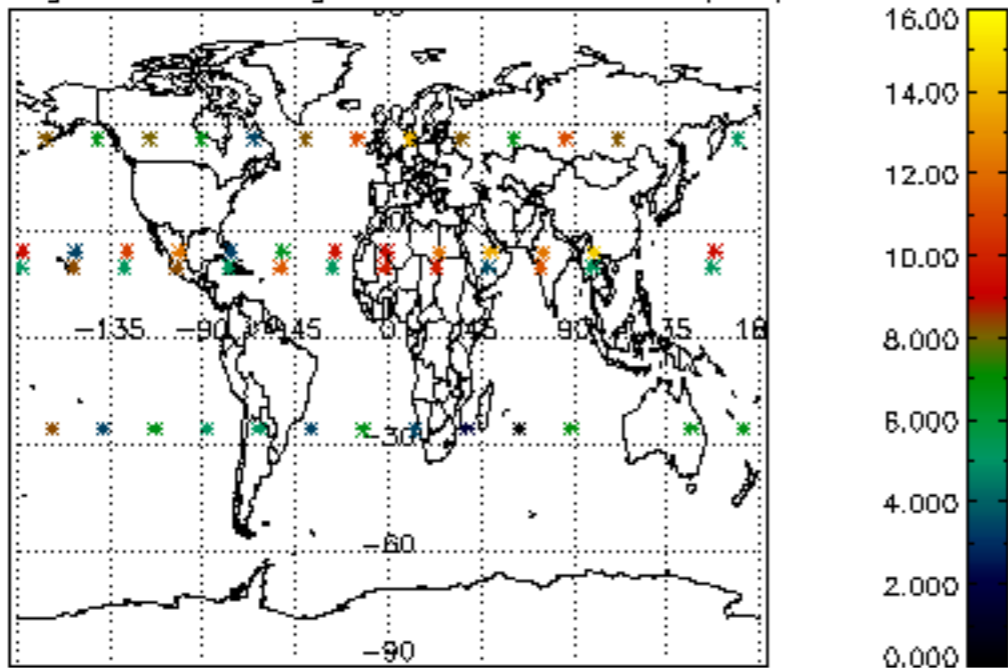
Percentage of cosmic ray hits per profile



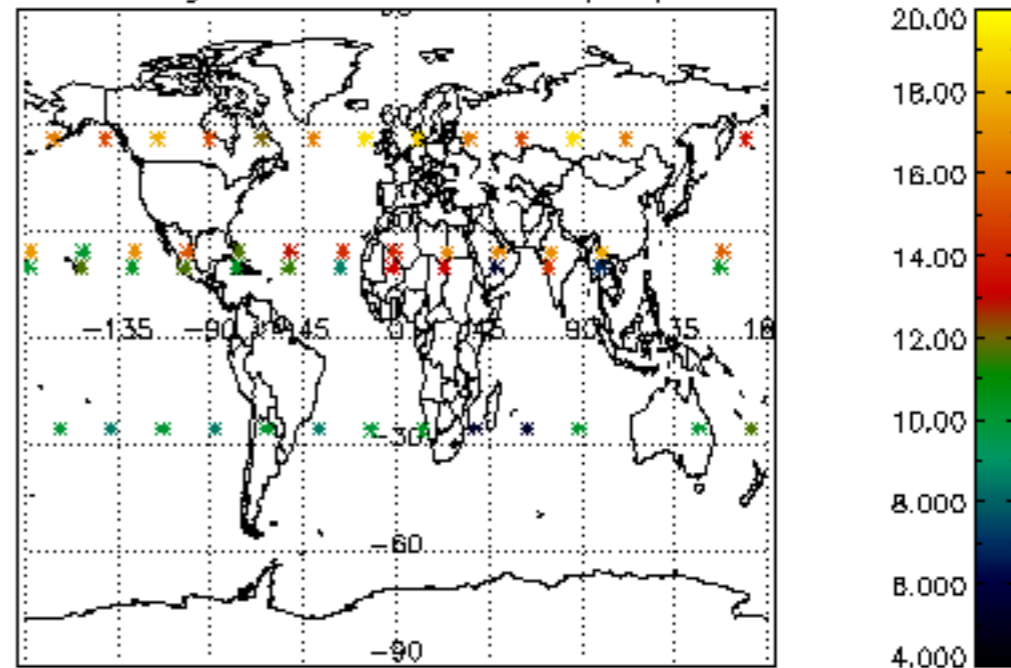
Percentage of datation errors per profile

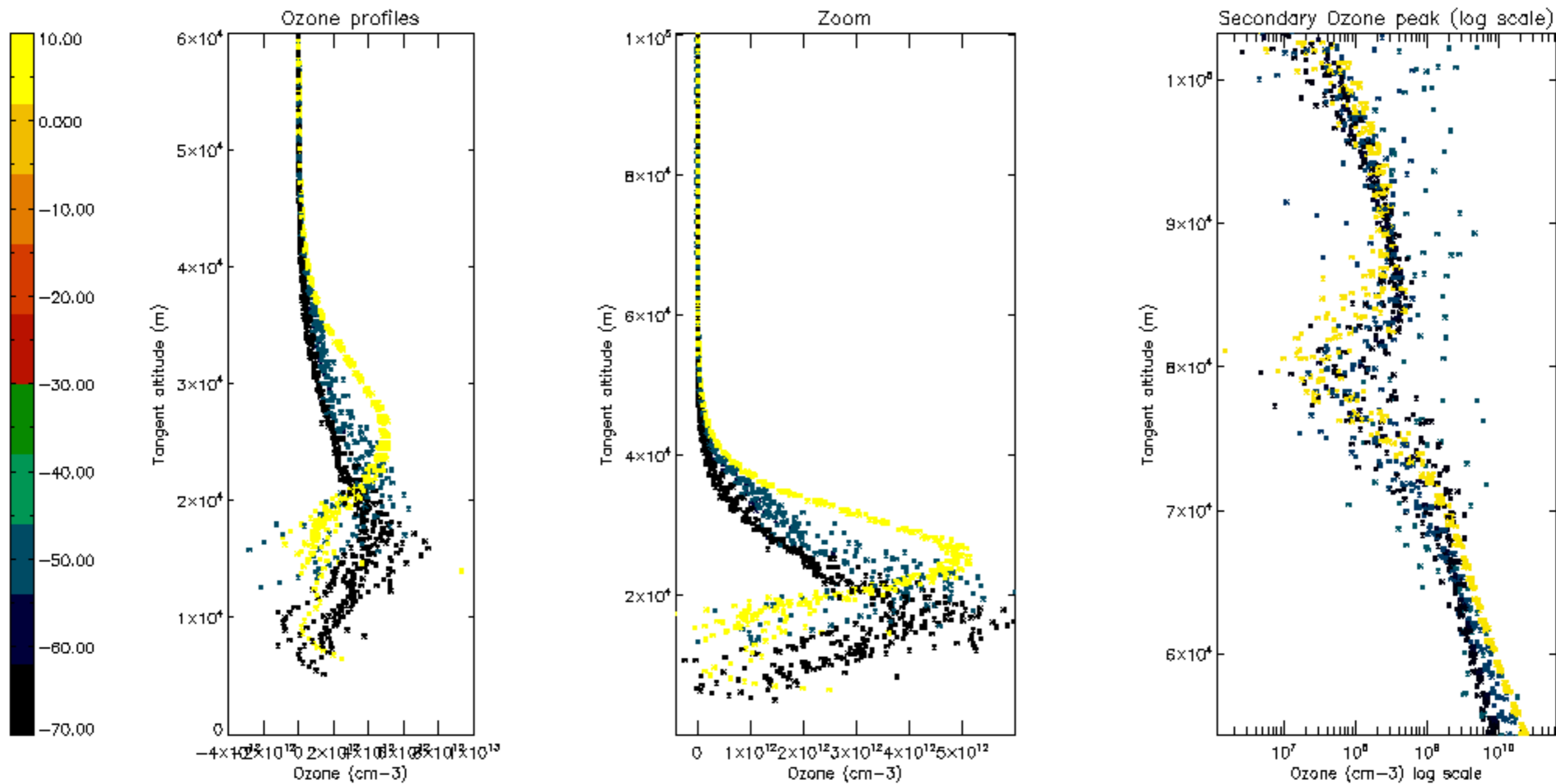


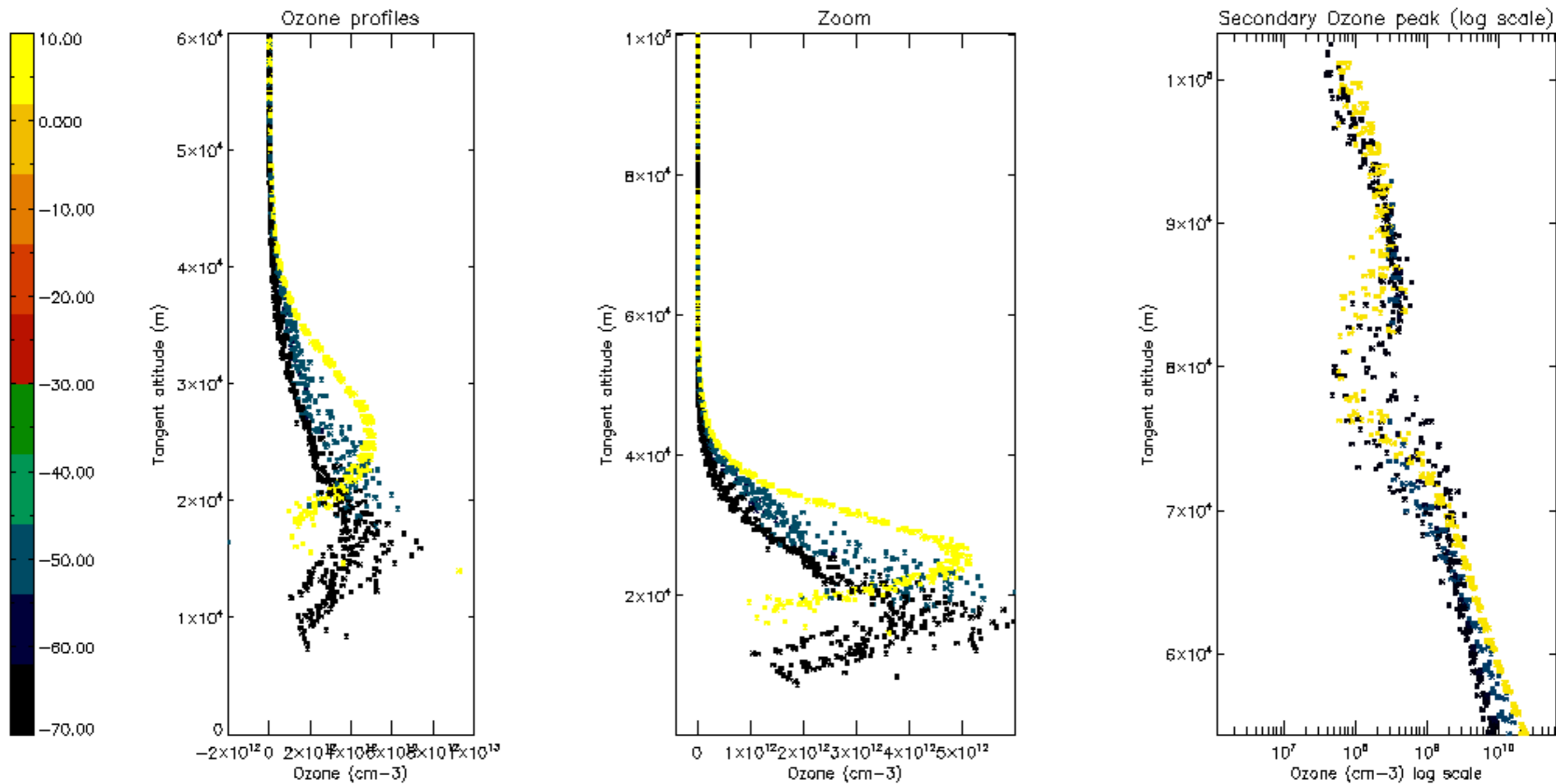
Percentage of star falling outside central band per profile

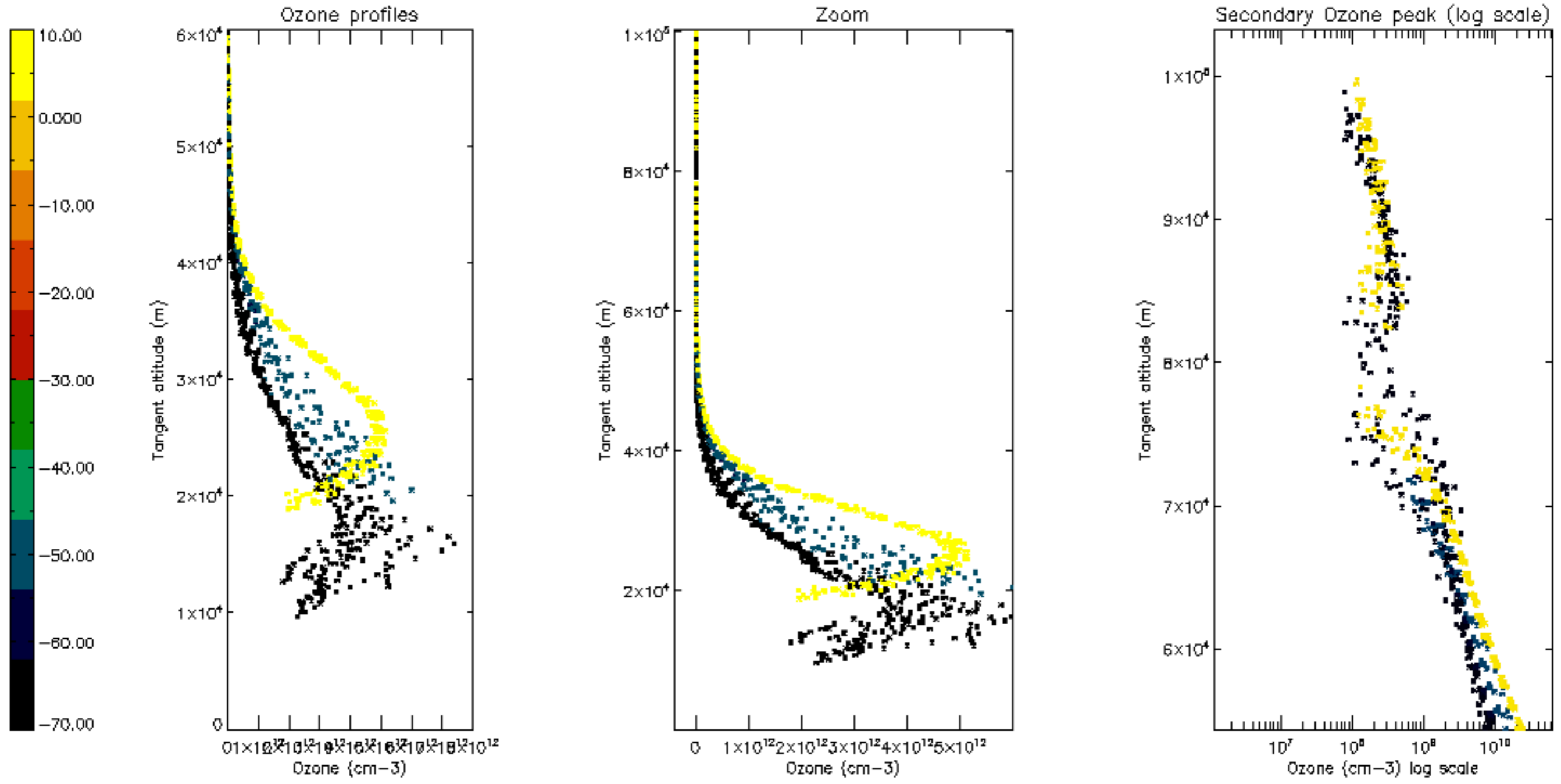


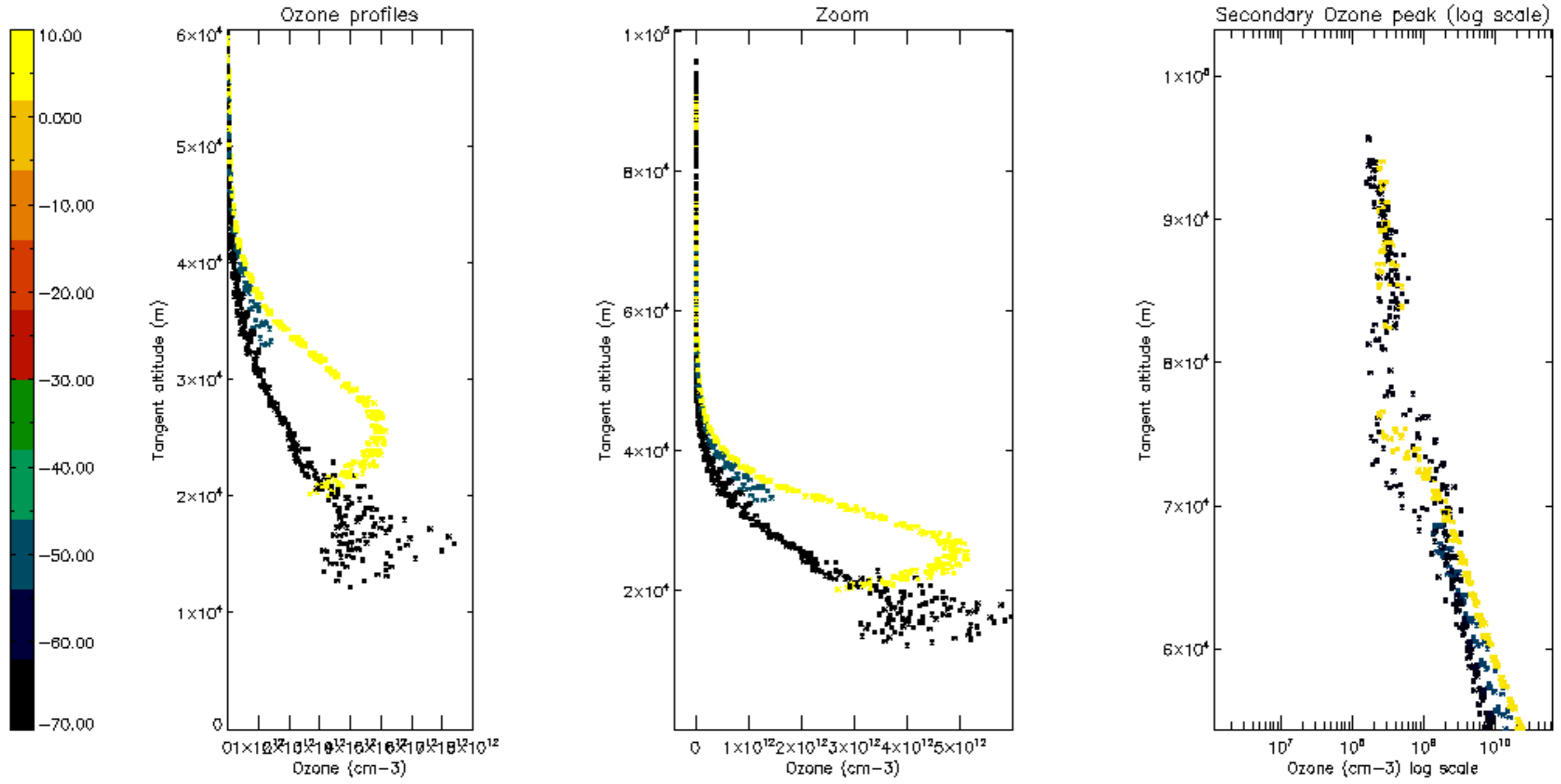
Percentage of saturation errors per profile

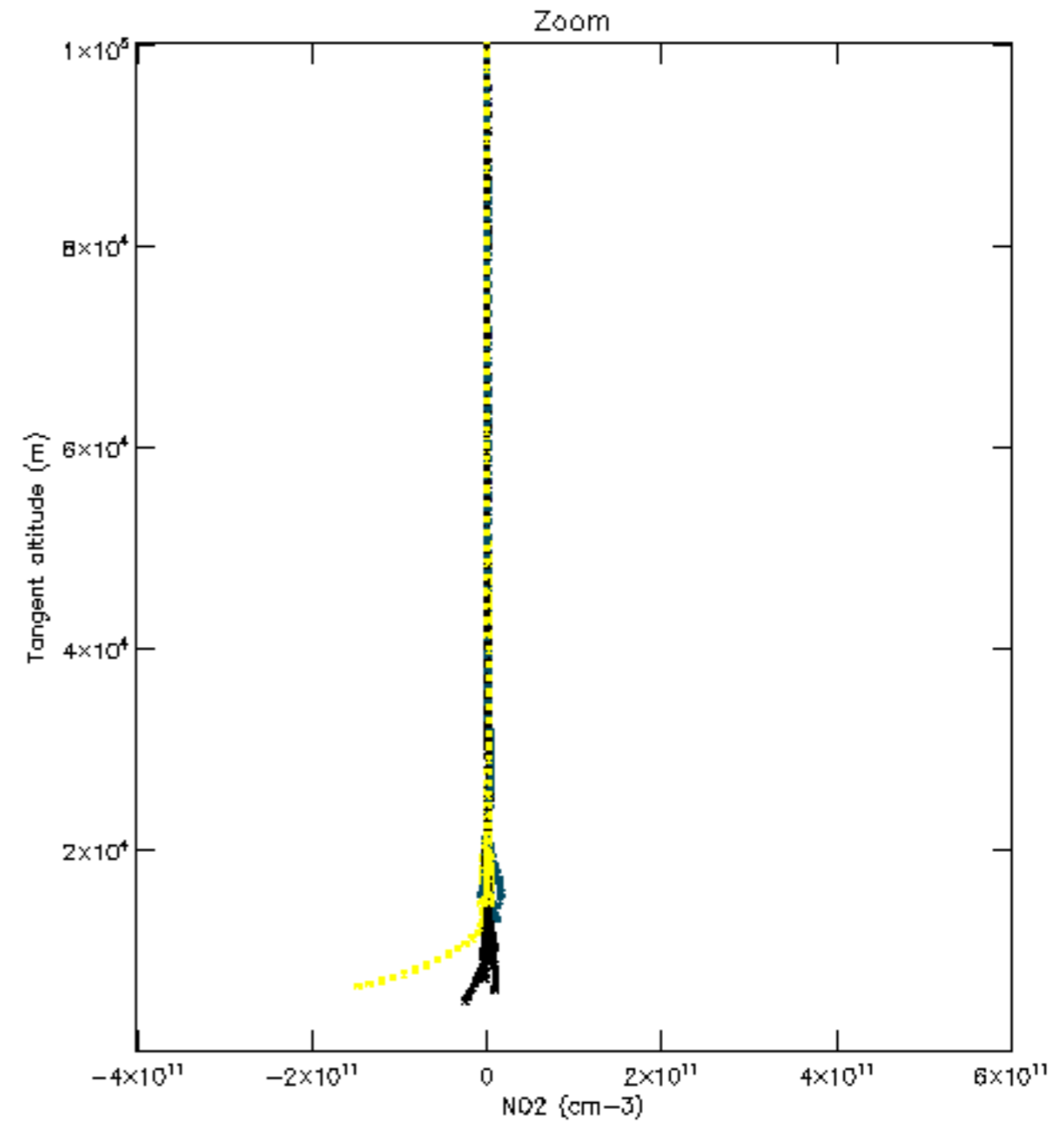
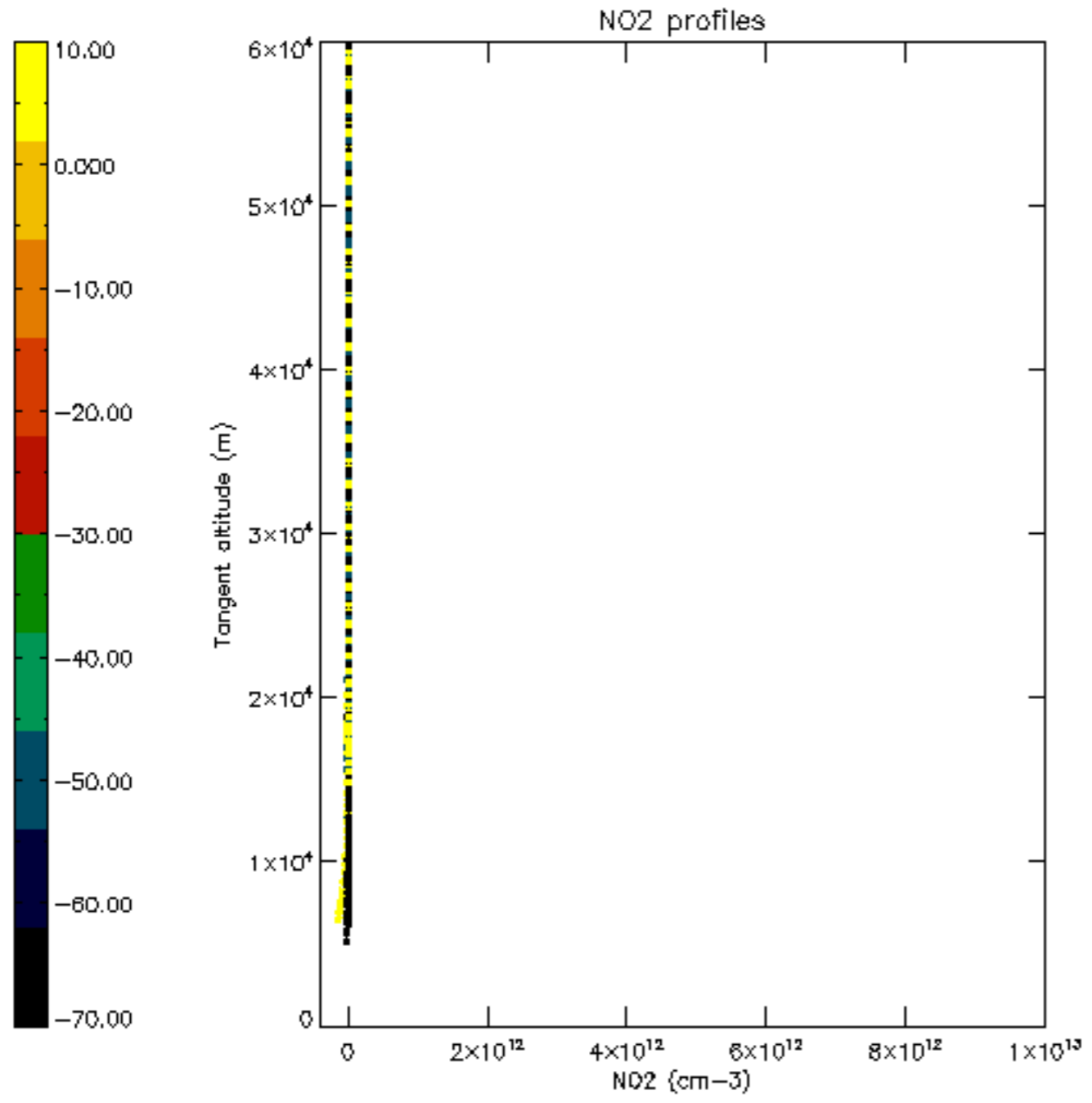


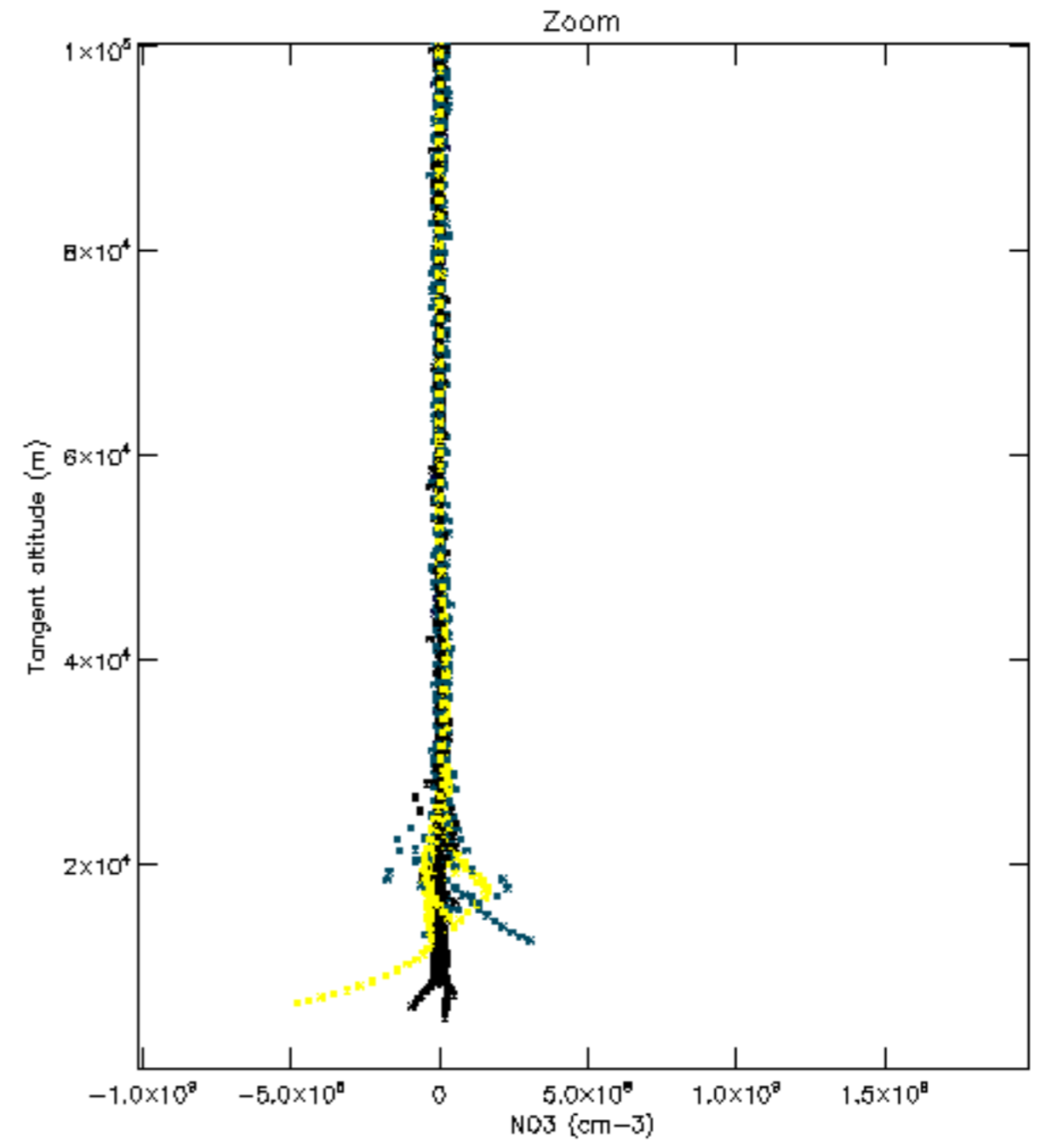
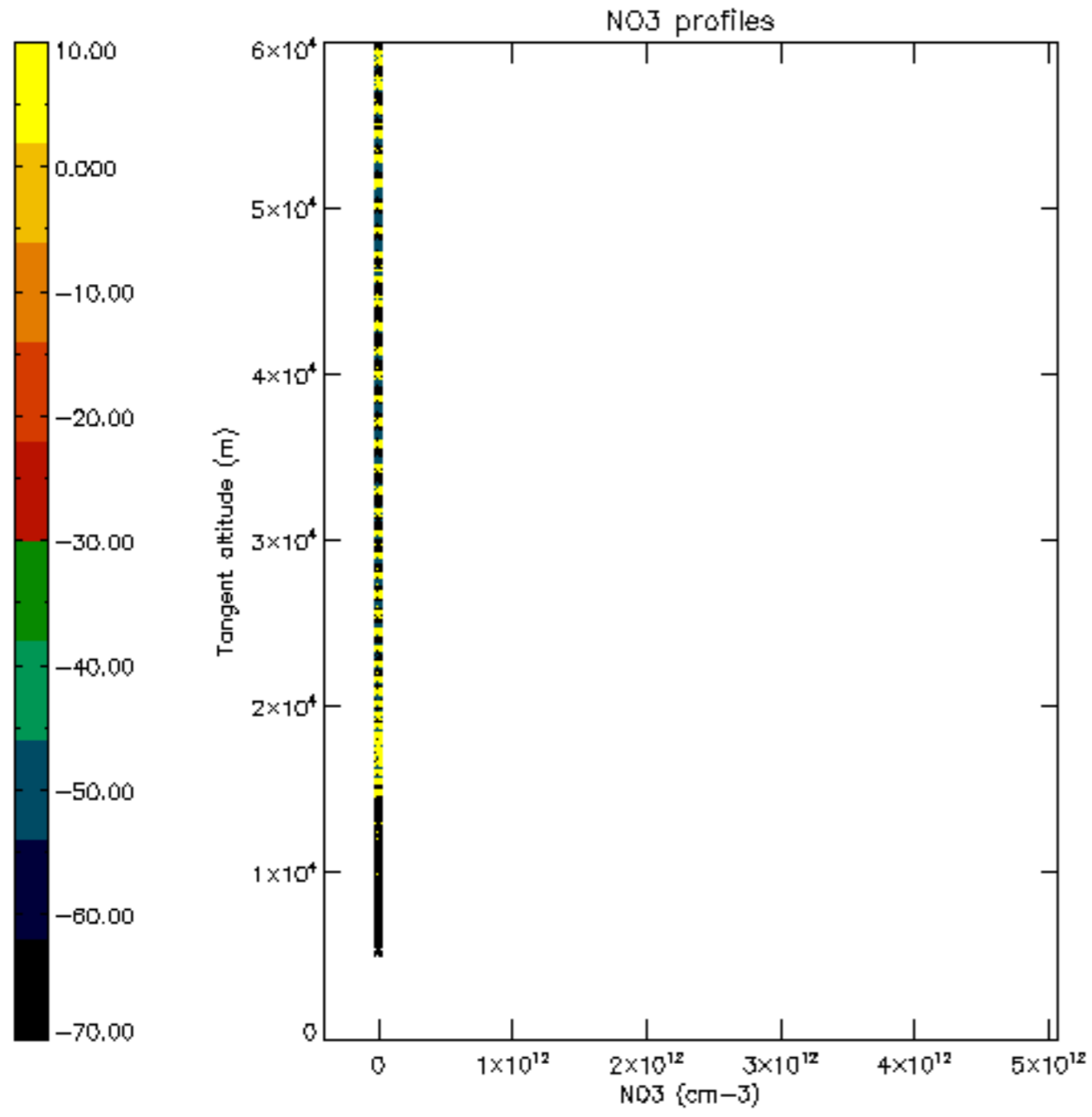


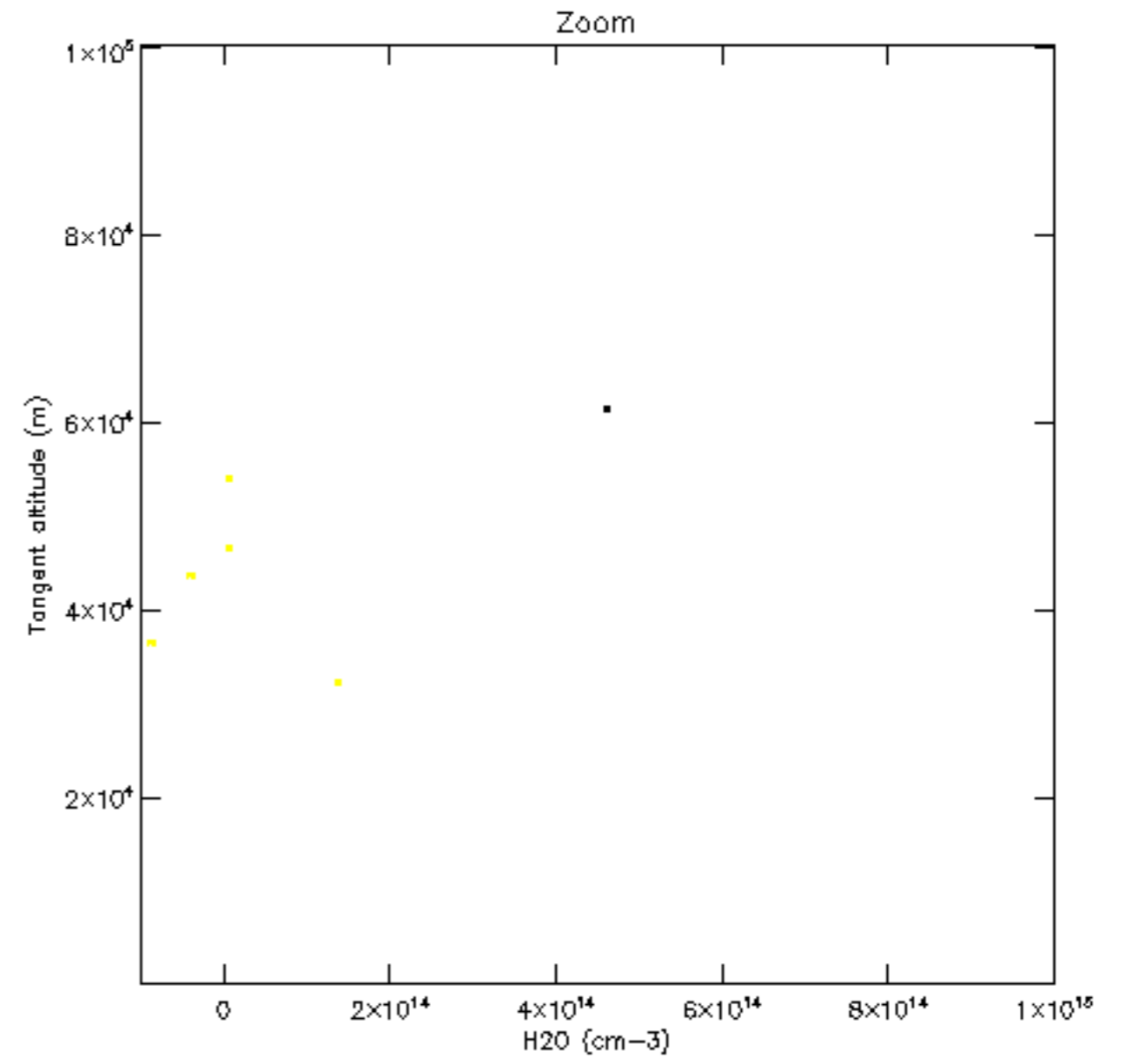
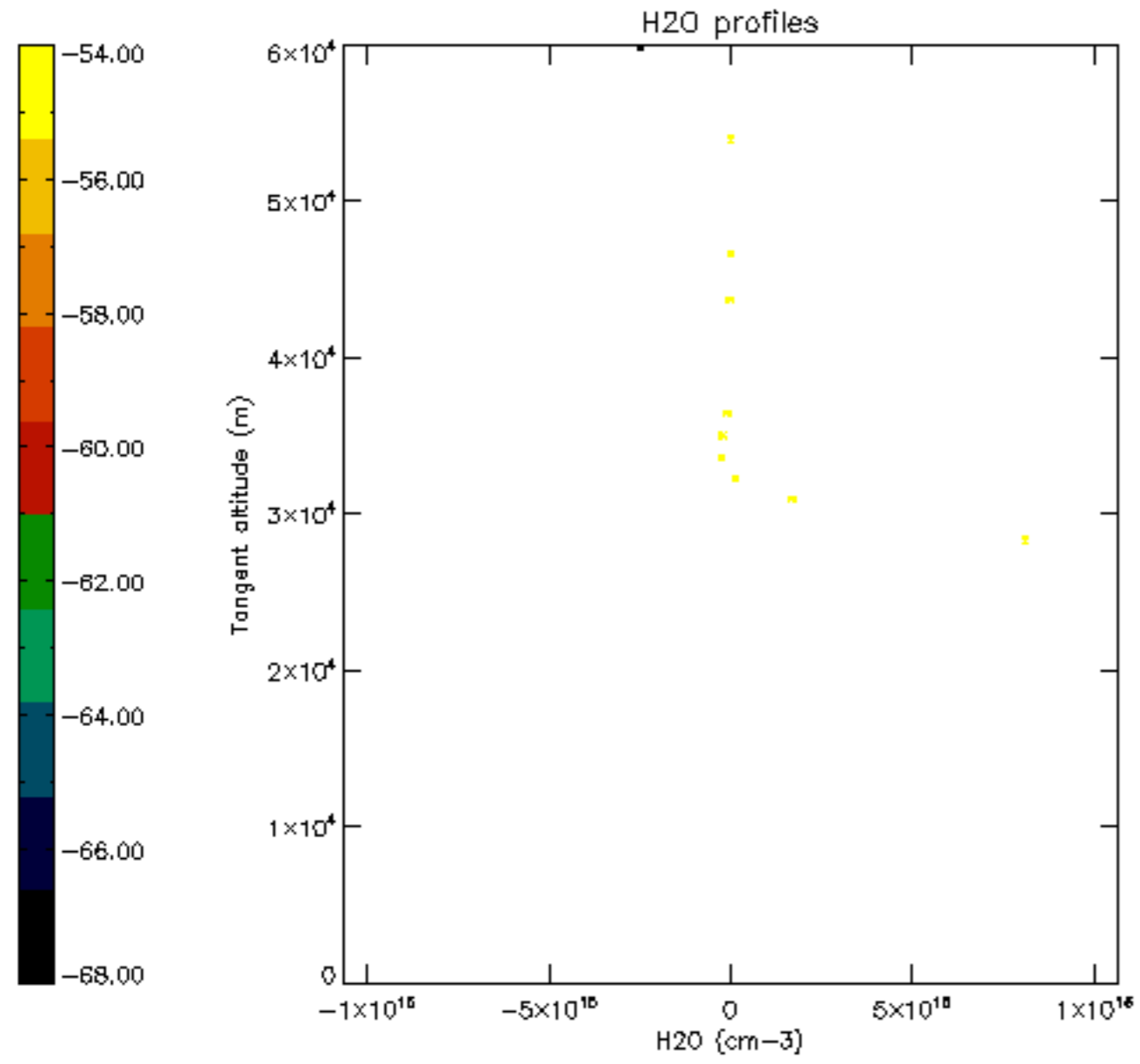


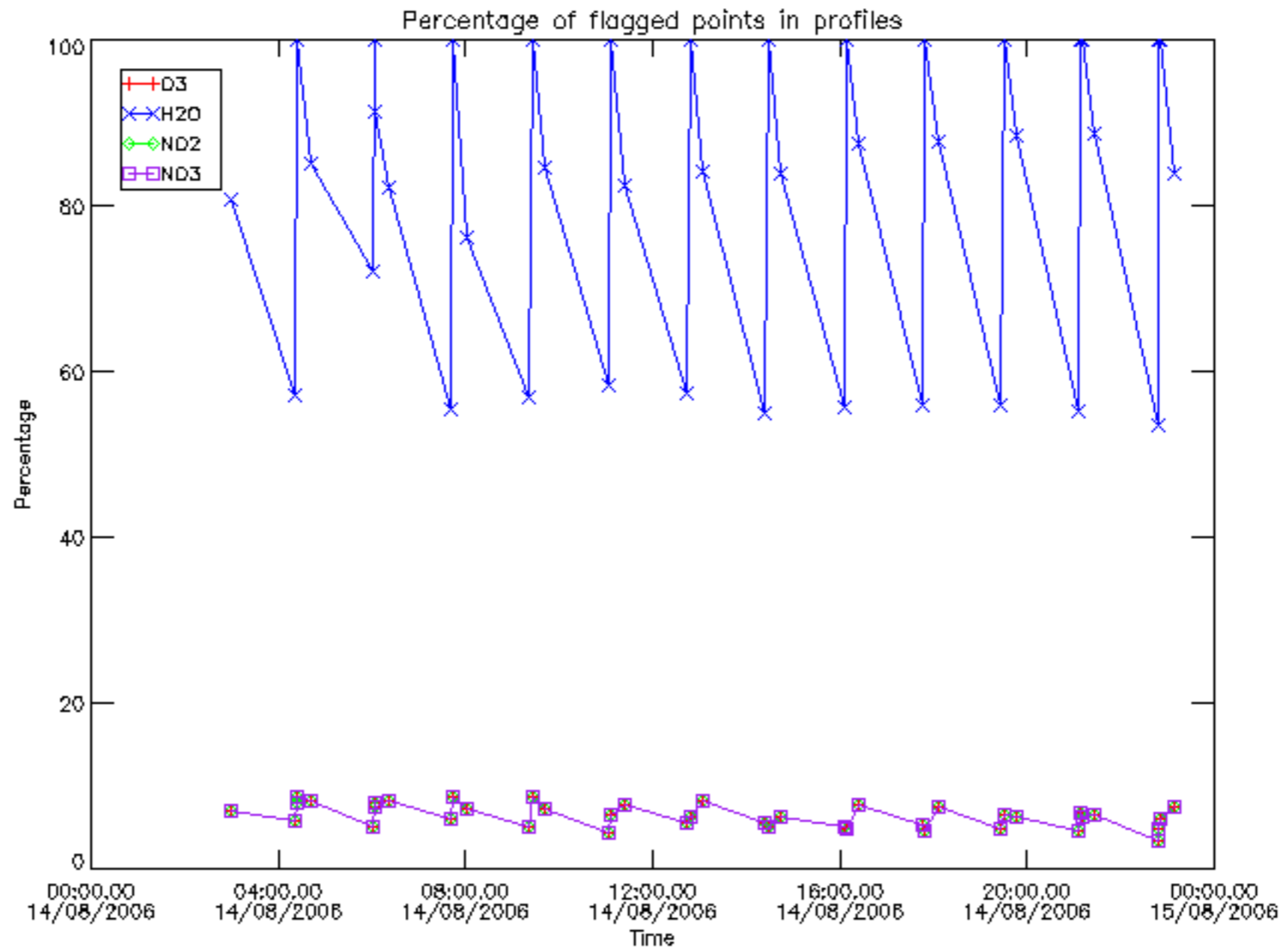




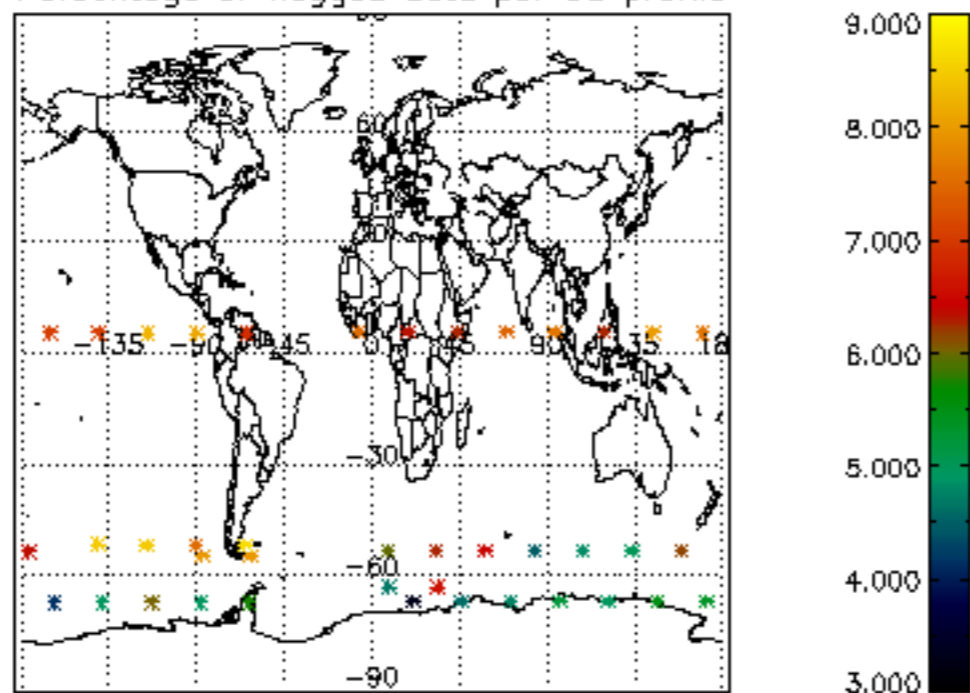




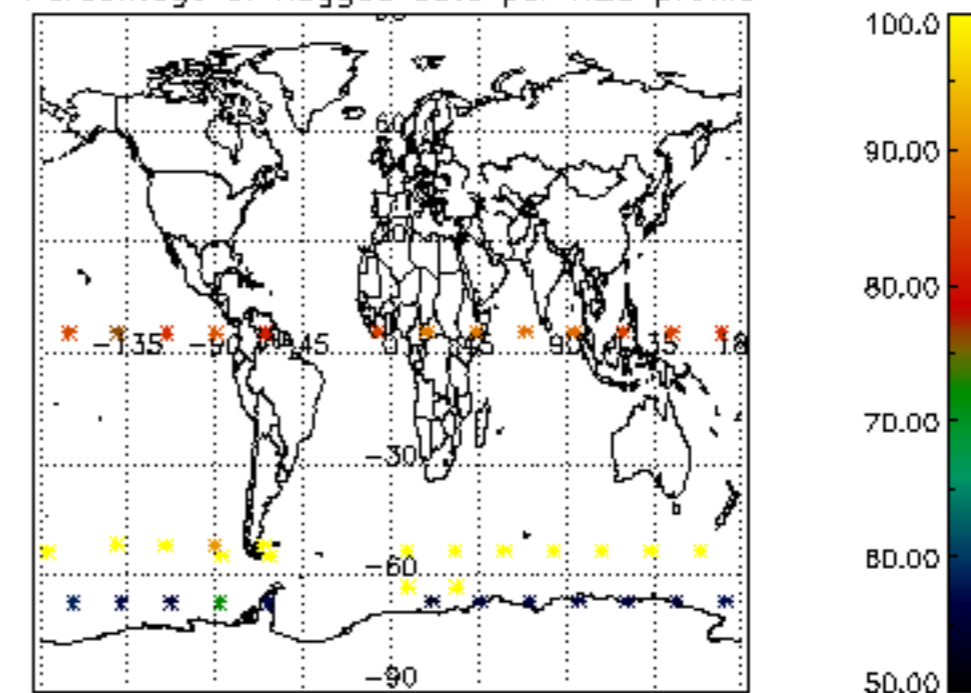




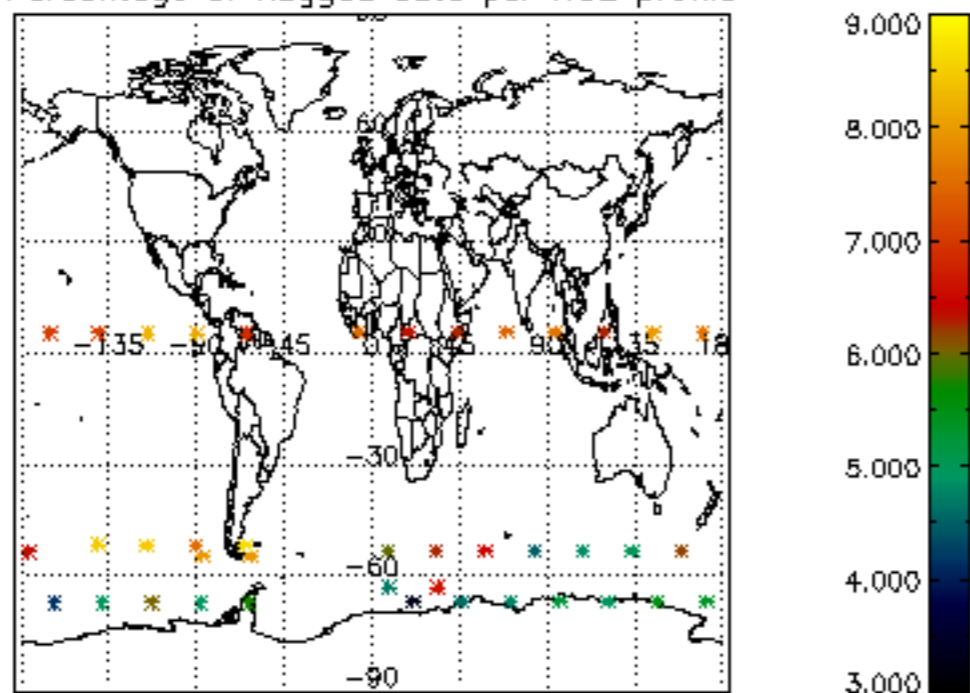
Percentage of flagged data per D3 profile



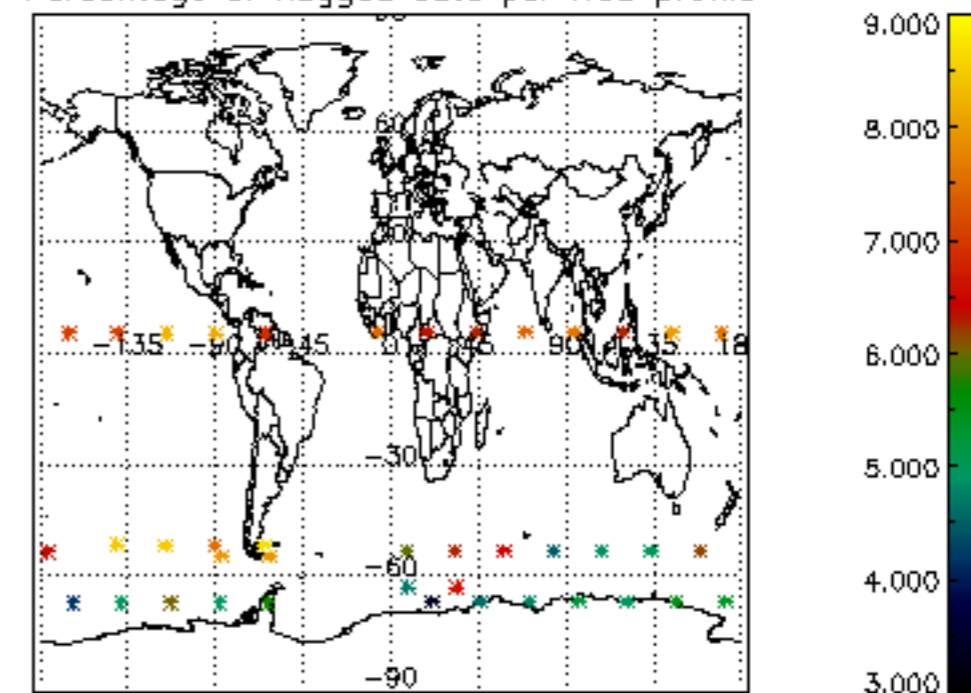
Percentage of flagged data per H2O profile

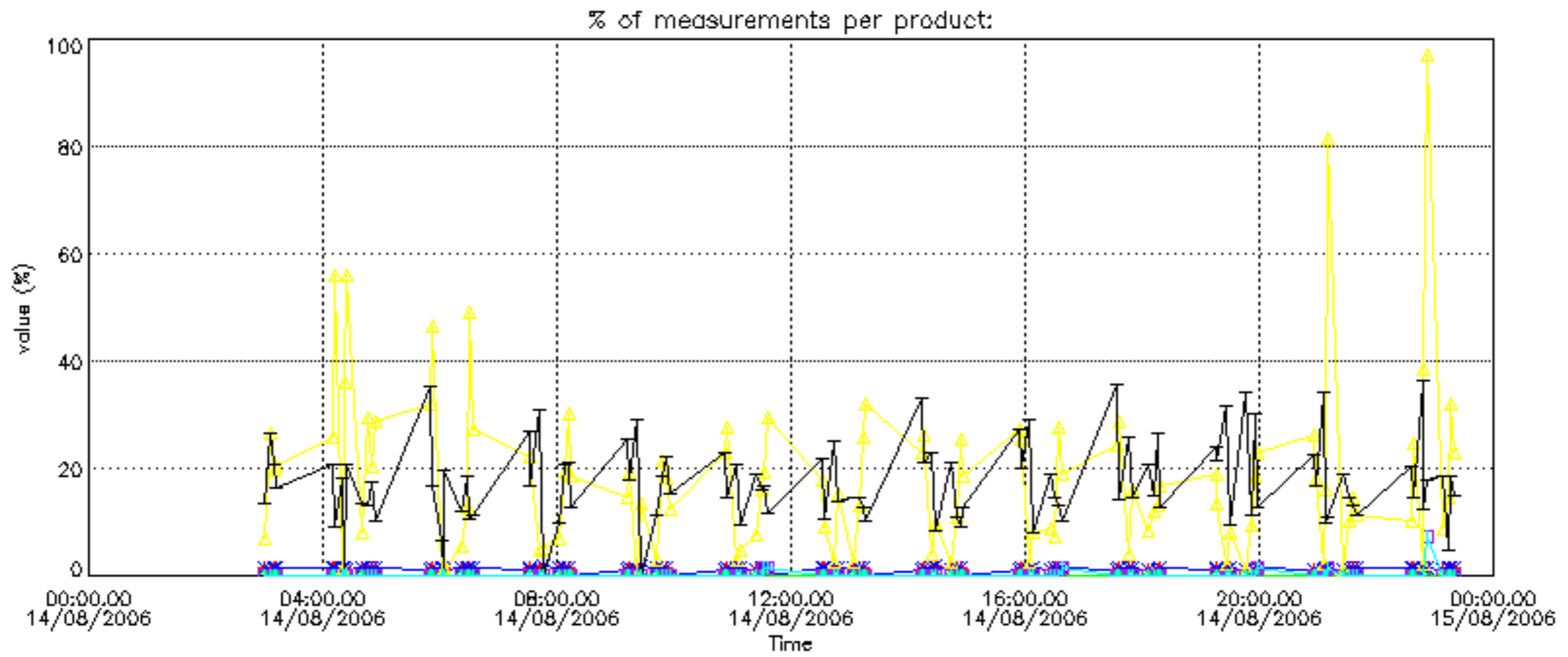


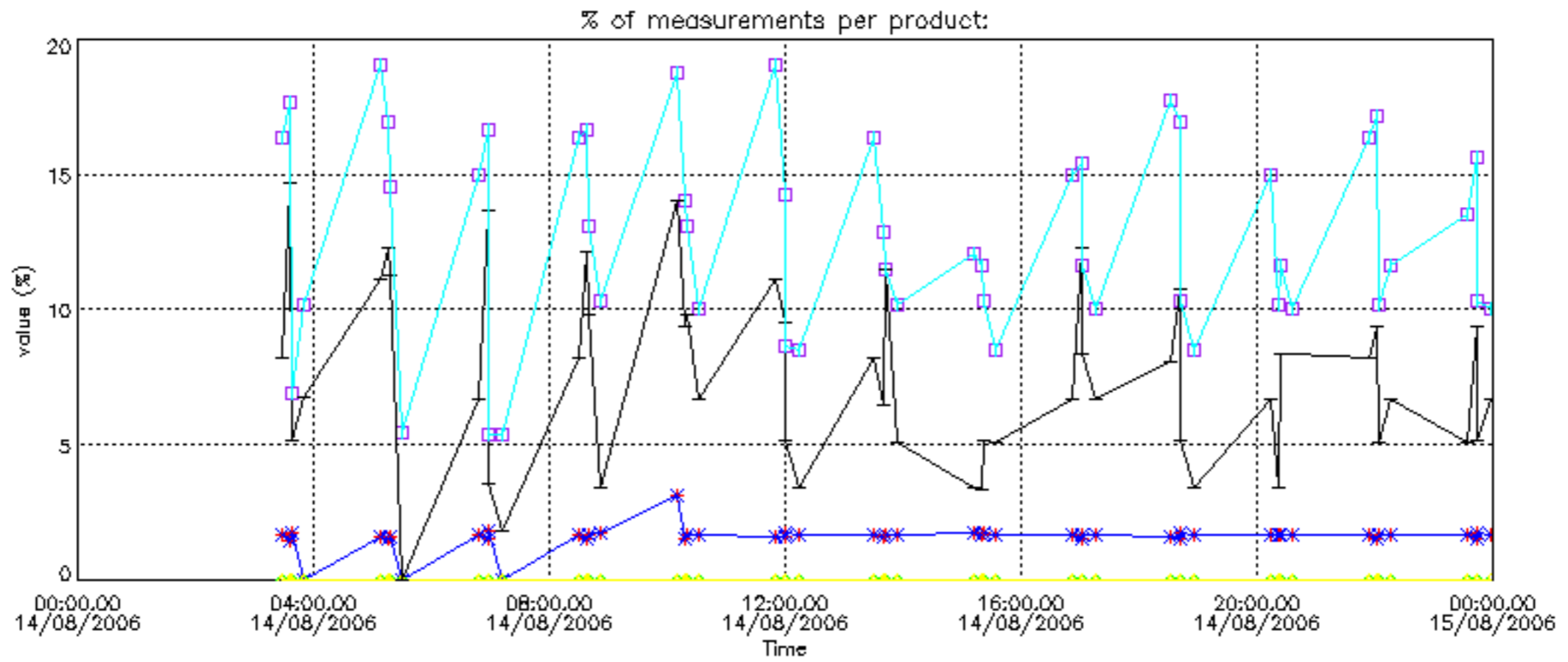
Percentage of flagged data per NO2 profile



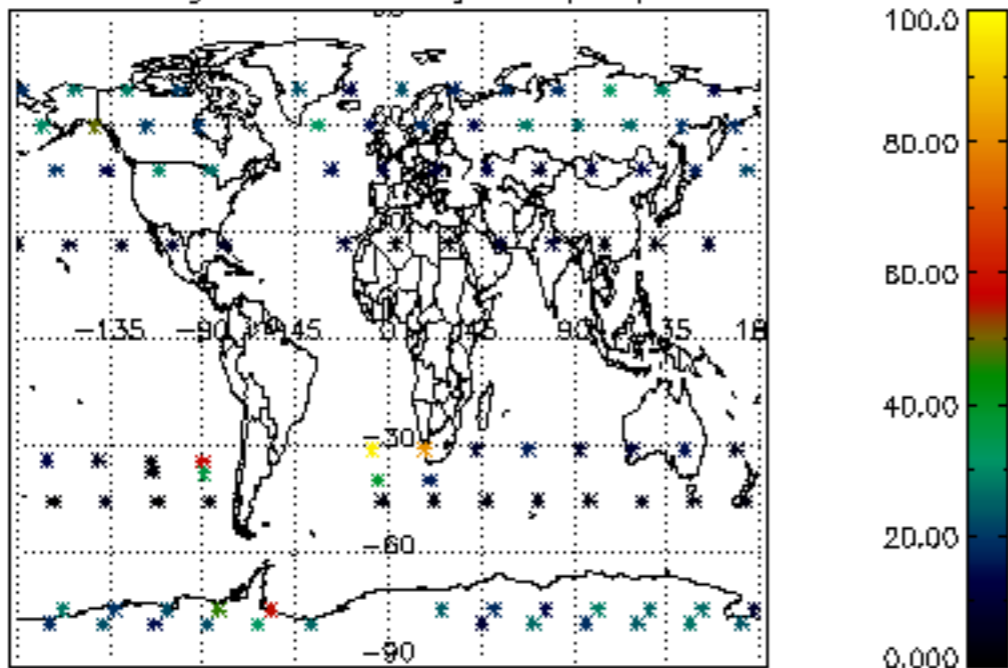
Percentage of flagged data per NO3 profile



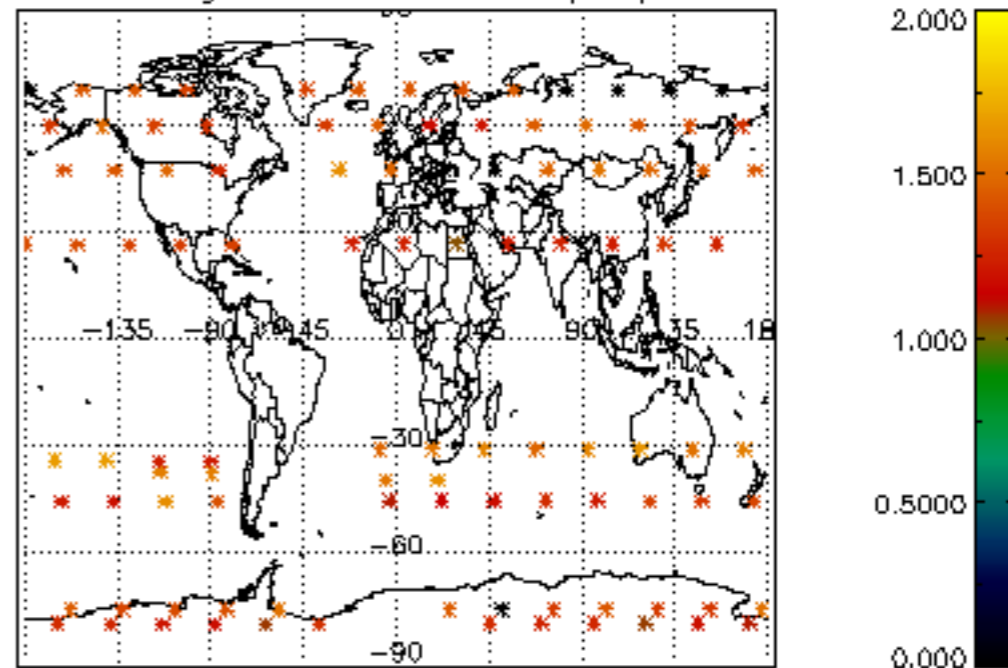




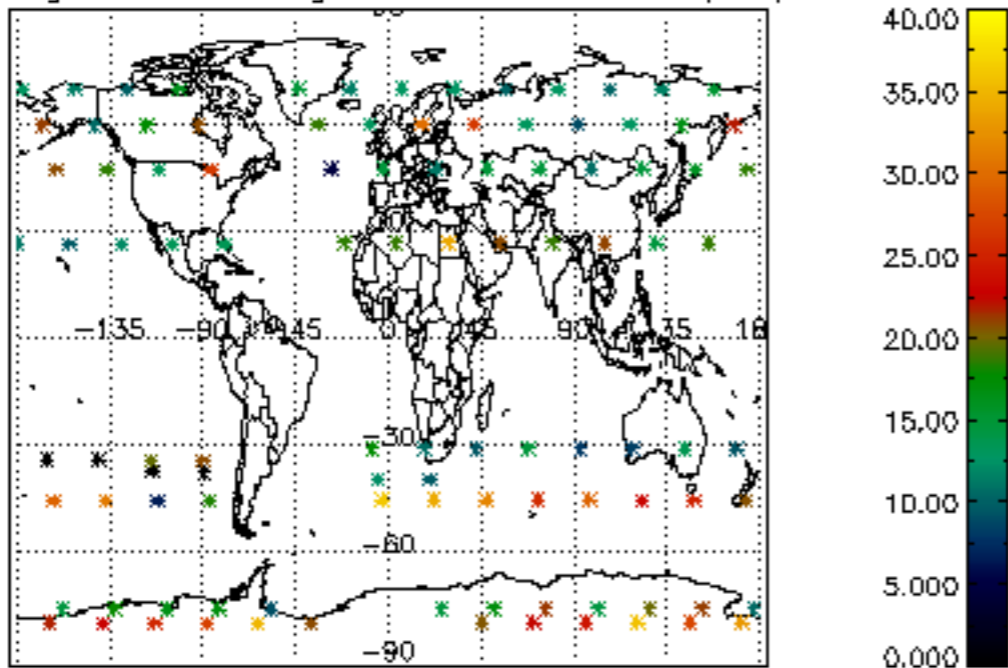
Percentage of cosmic ray hits per profile



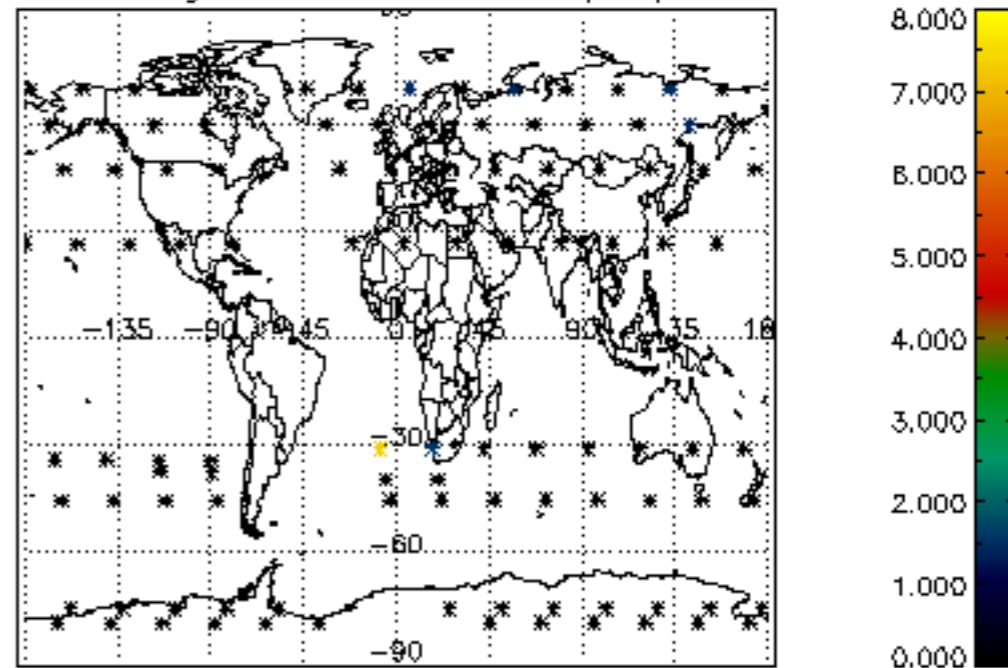
Percentage of datation errors per profile



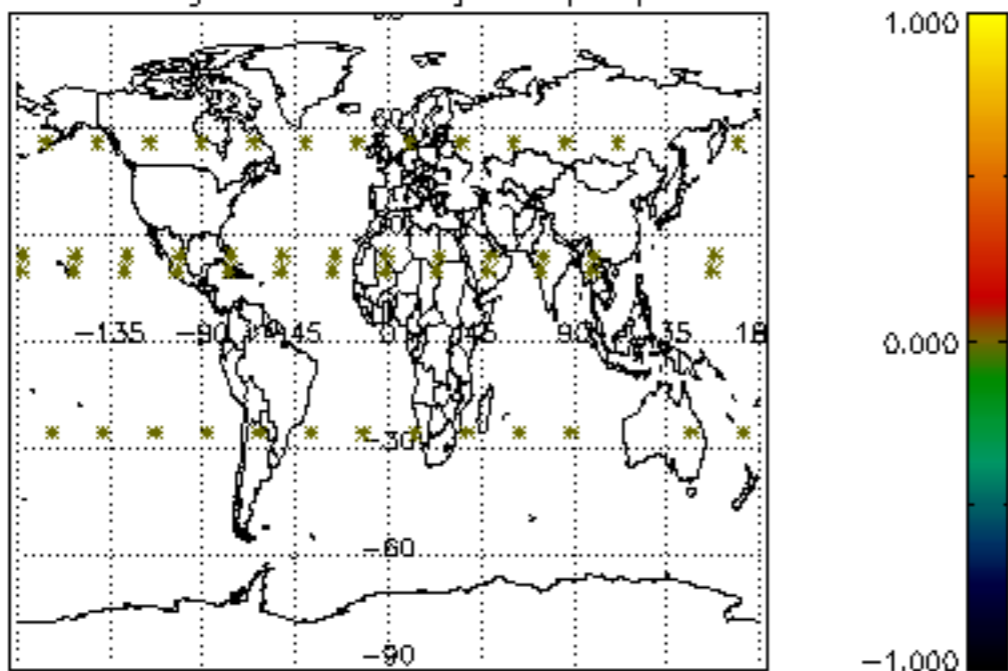
Percentage of star falling outside central band per profile



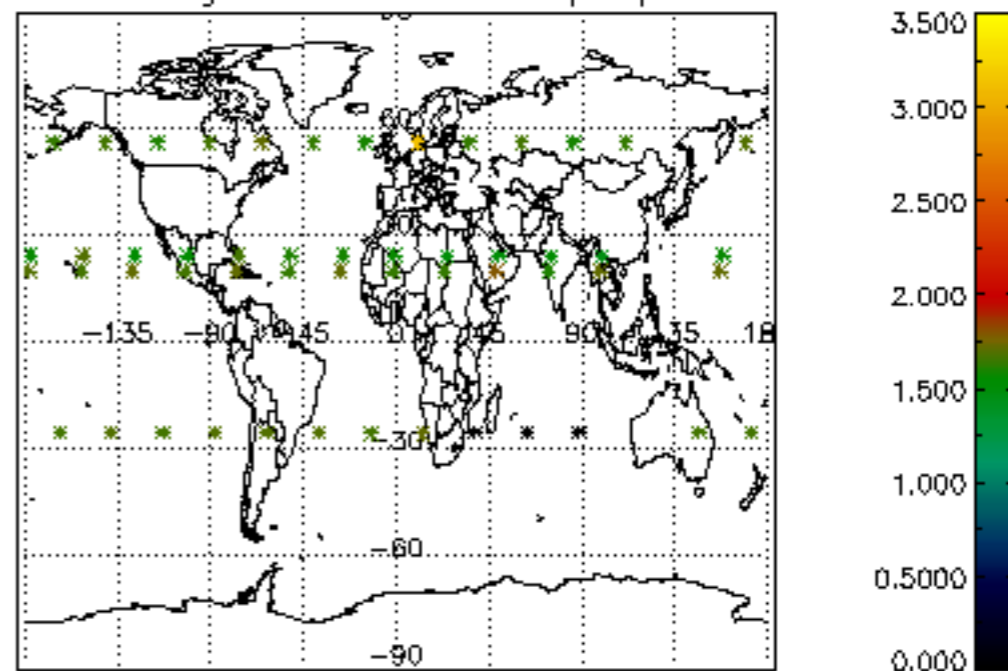
Percentage of saturation errors per profile



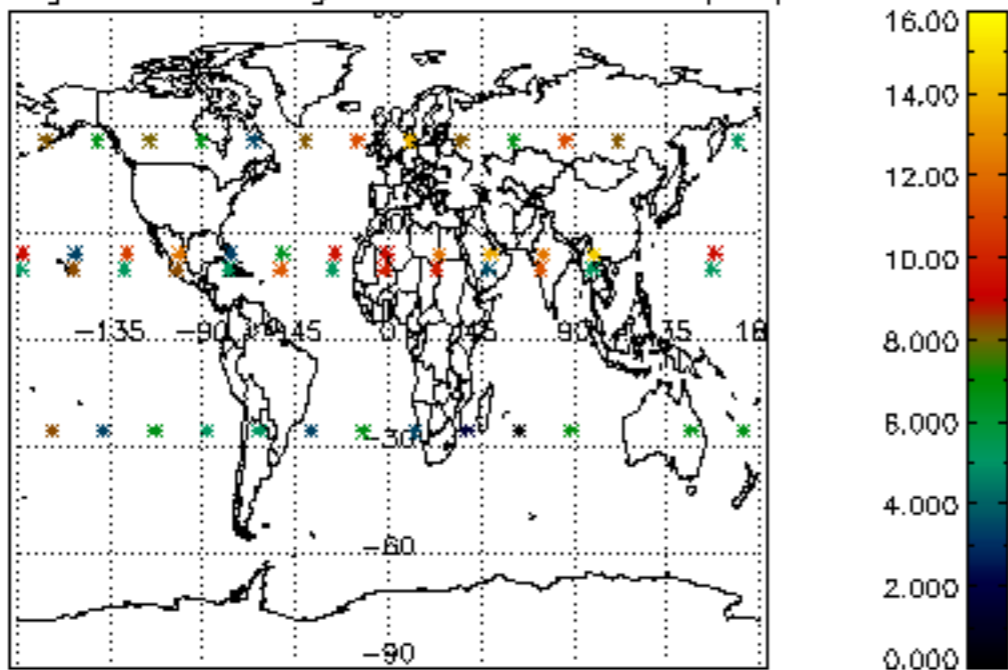
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

