

GOMOS Level 2 Daily Report

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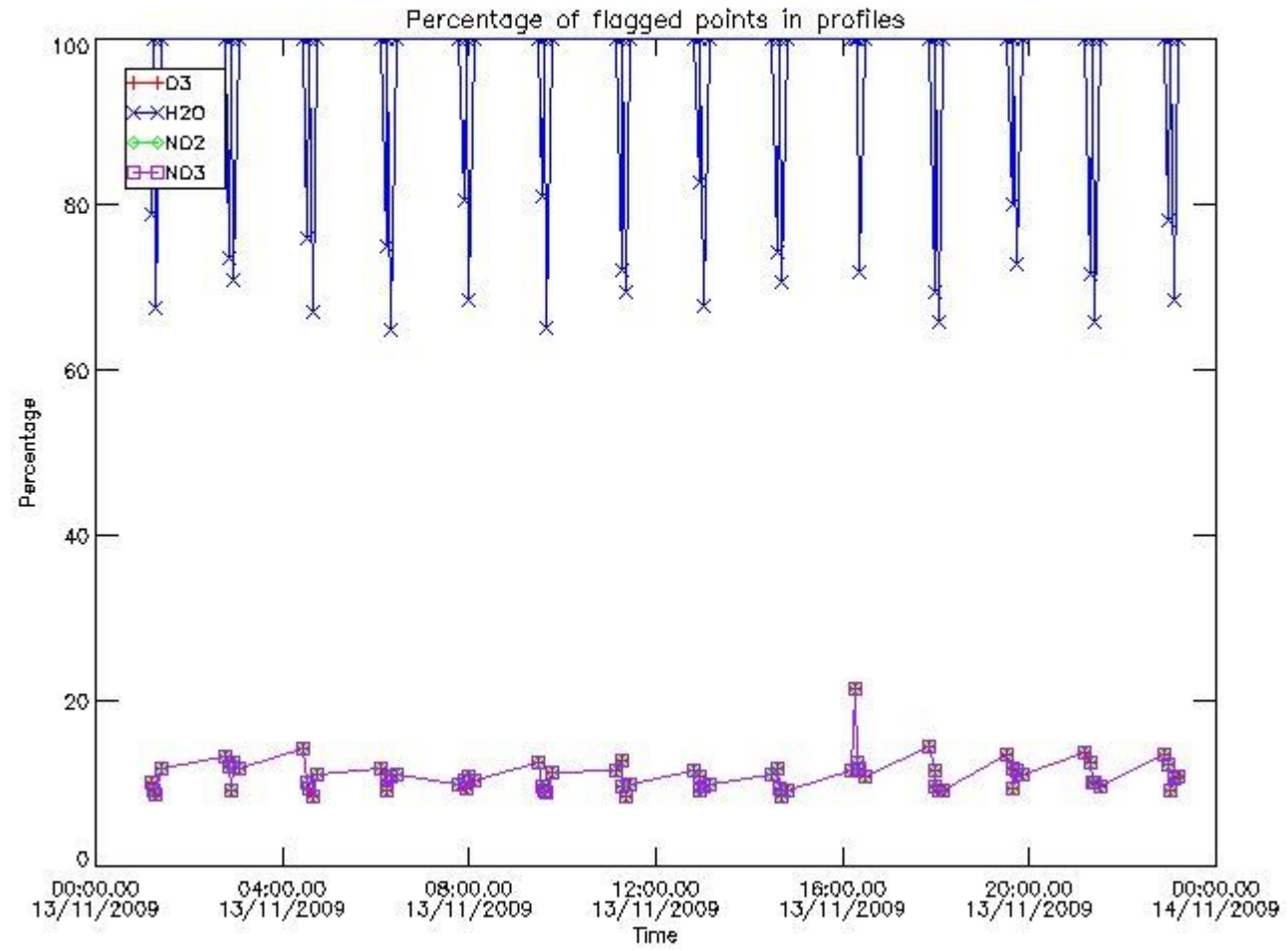
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3. Quality information per product

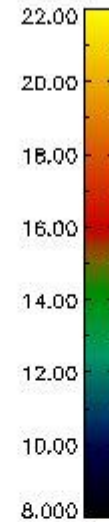
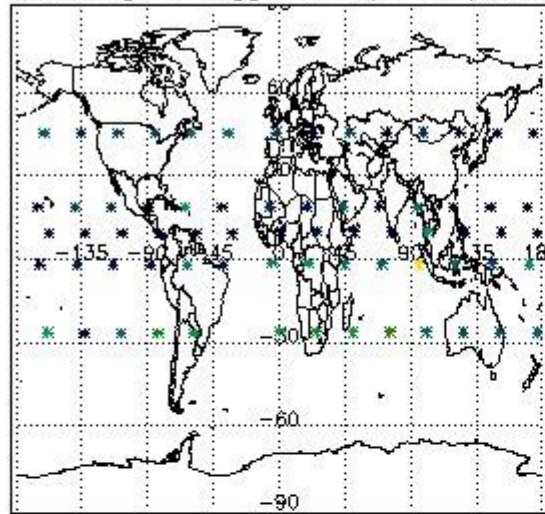
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

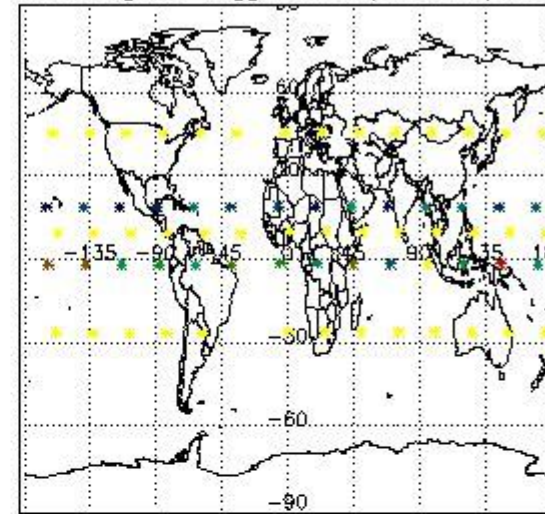


3.2 Plot quality information per product (world map)

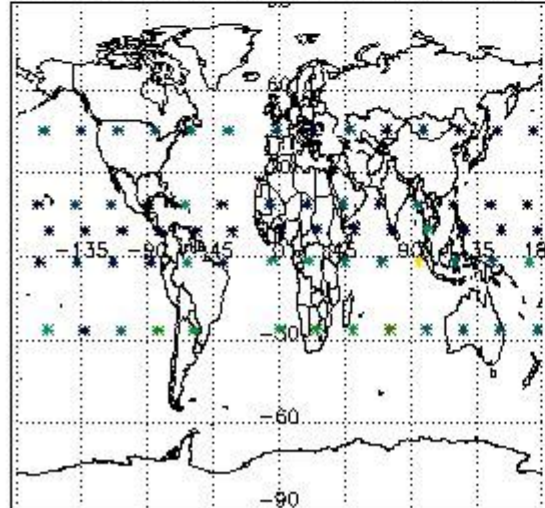
Percentage of flagged data per O3 profile



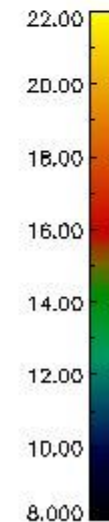
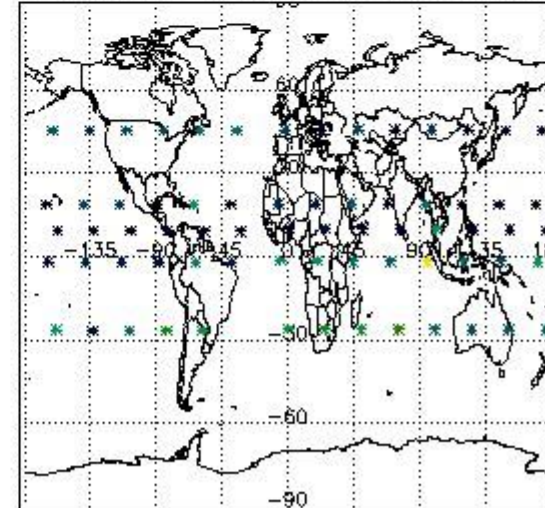
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

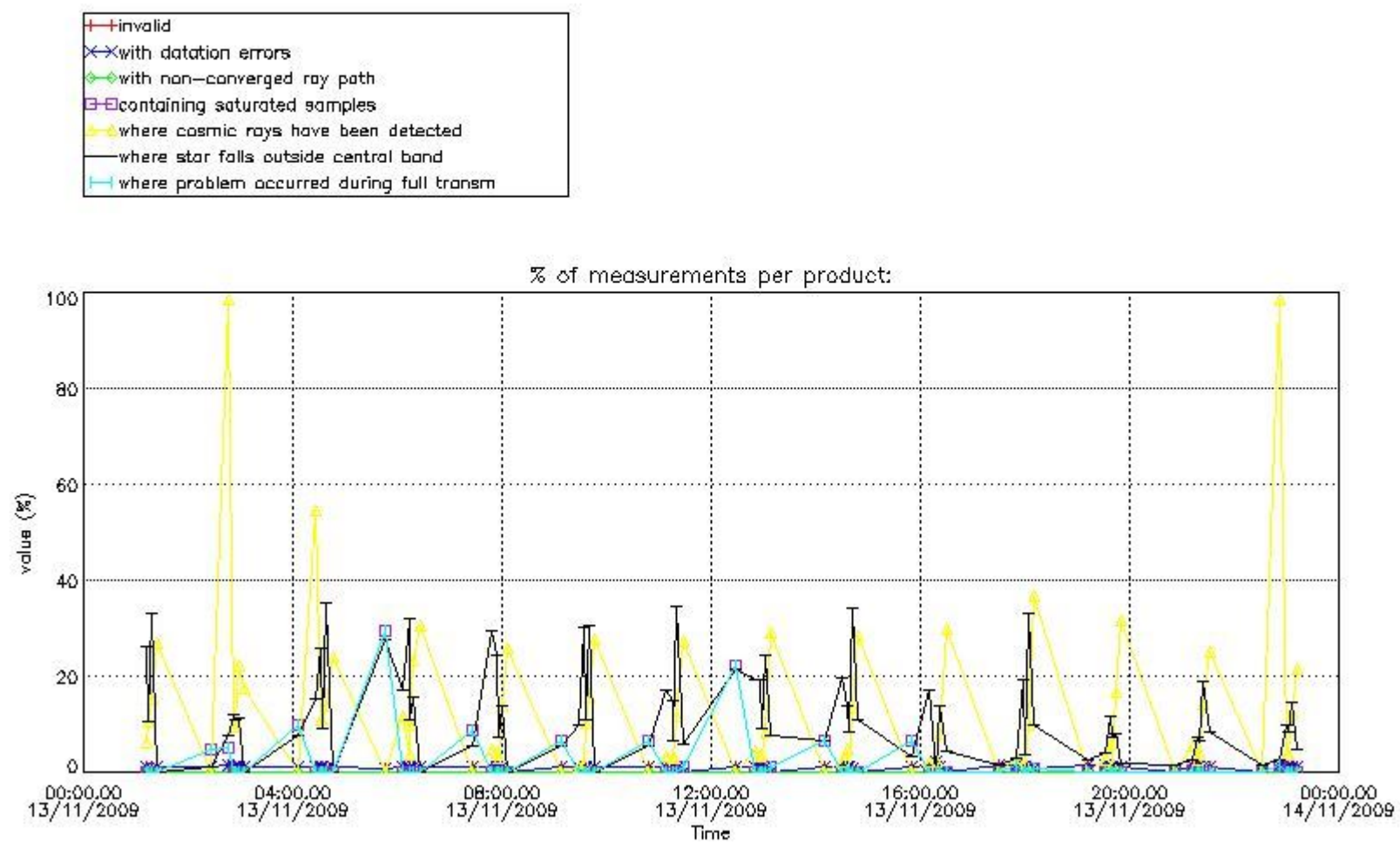


4. Level 1 quality information per product

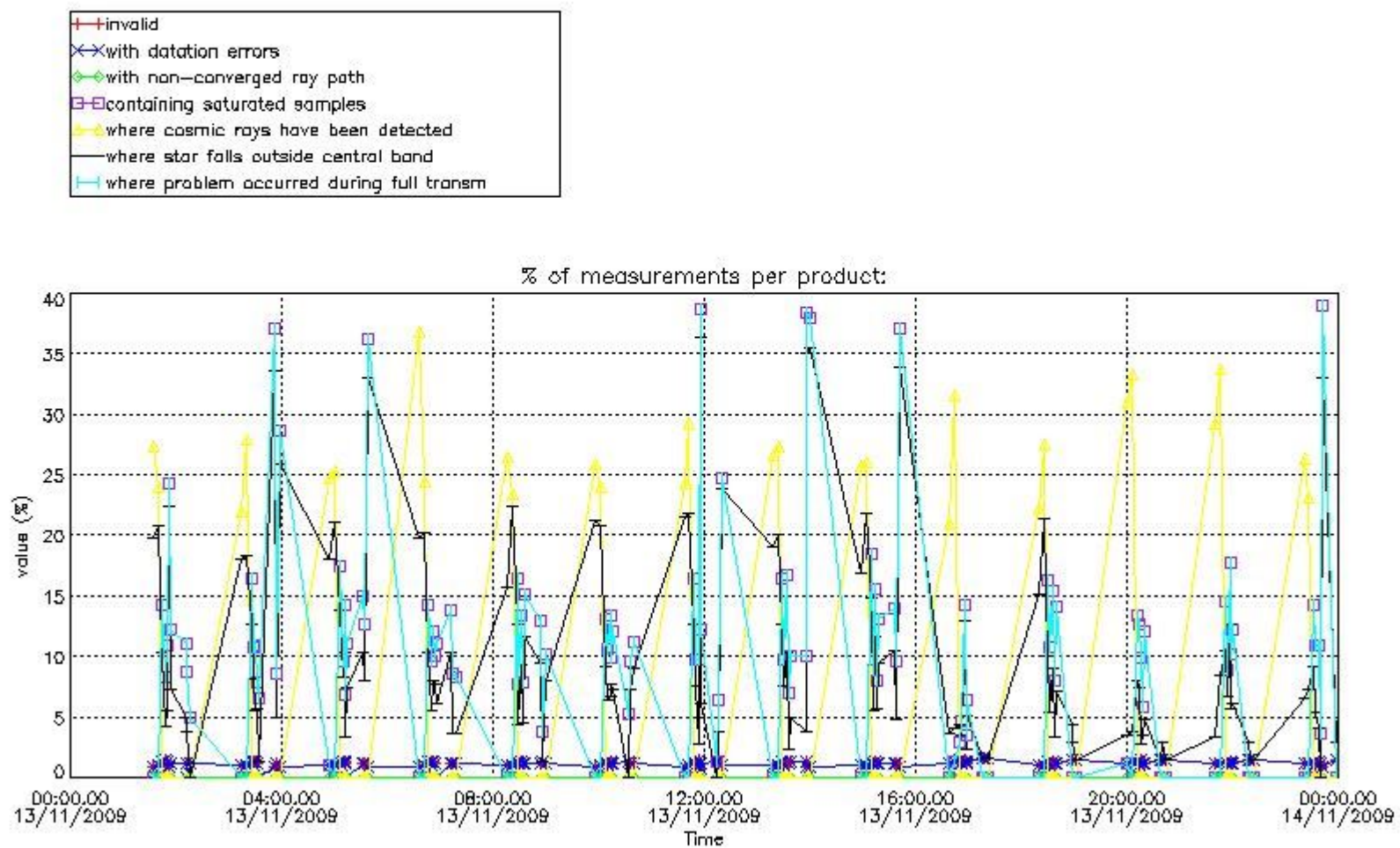
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

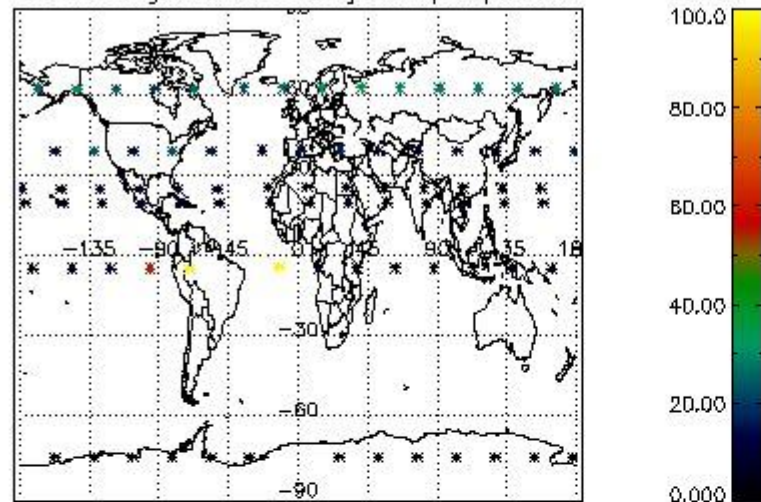


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

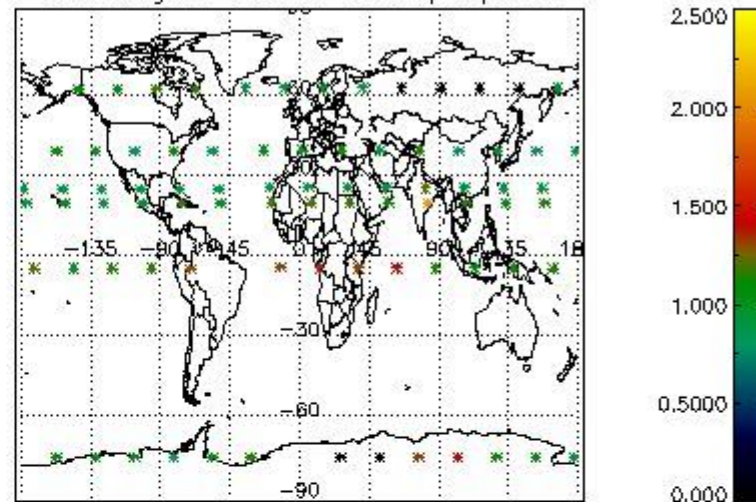


4.2 Plot quality information per product coming from level 1b processing (world map)
 4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

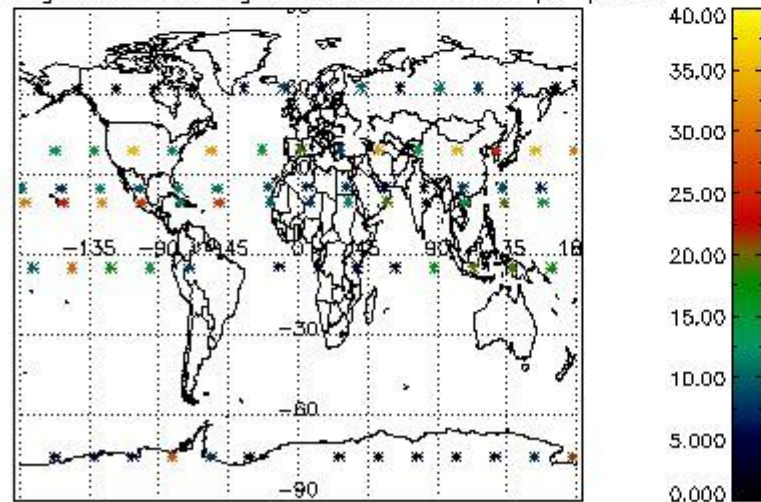
Percentage of cosmic ray hits per profile



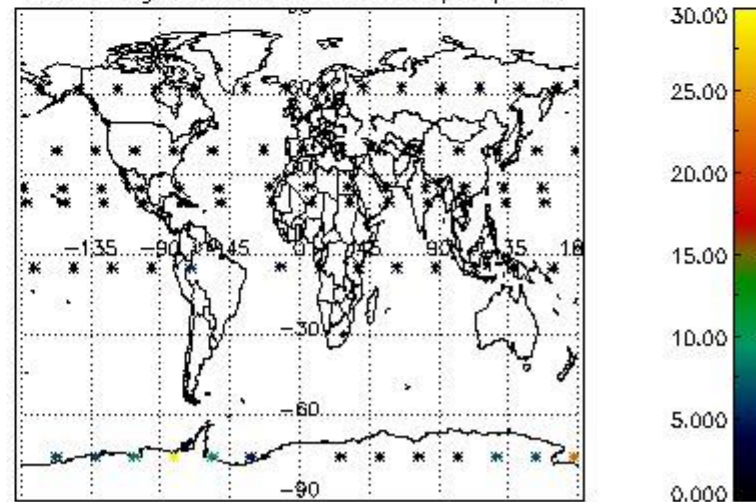
Percentage of datation errors per profile



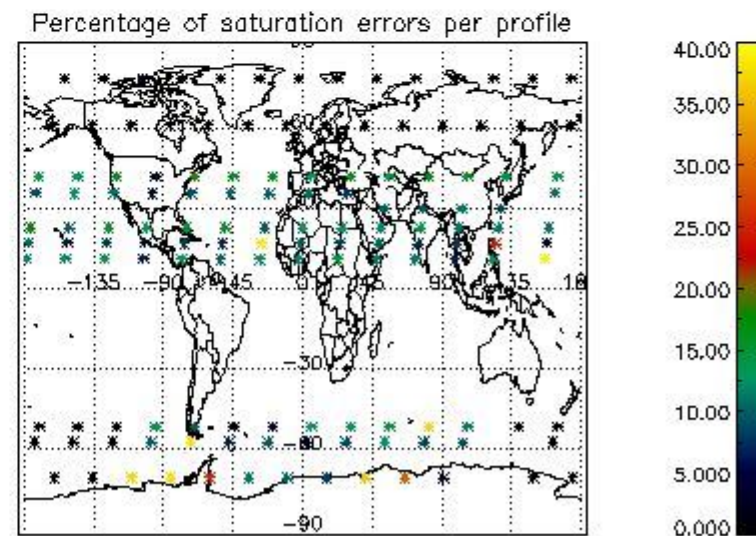
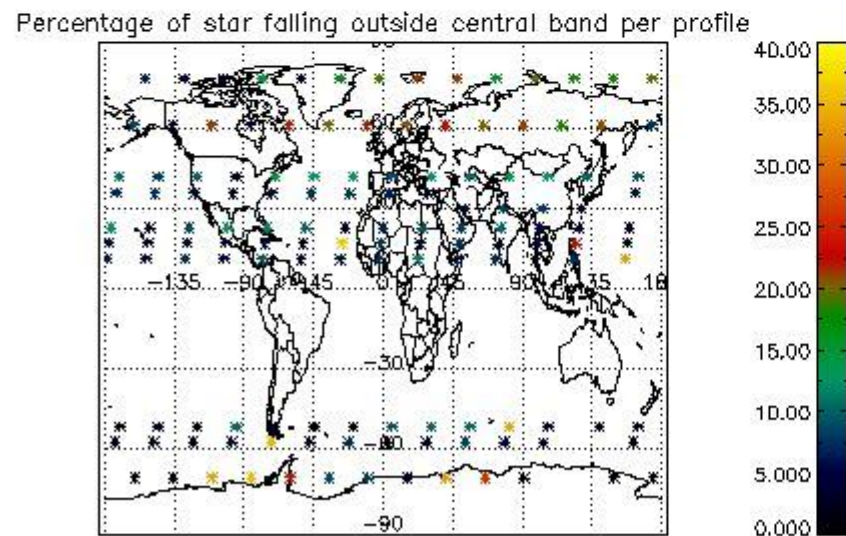
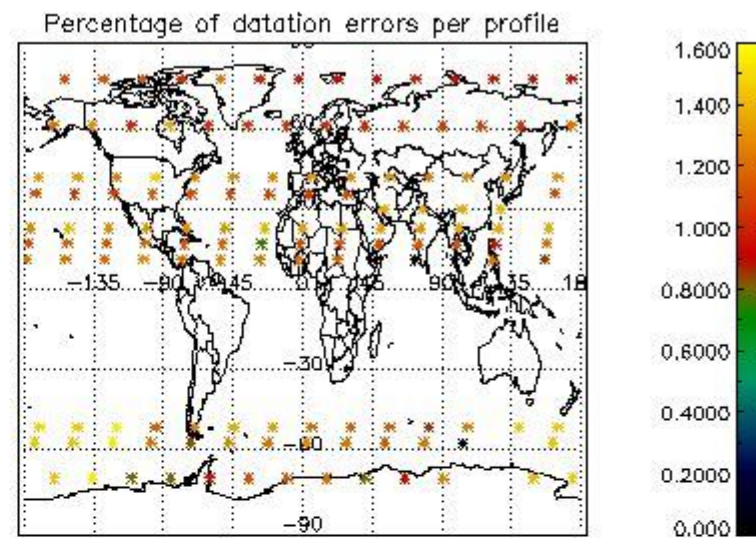
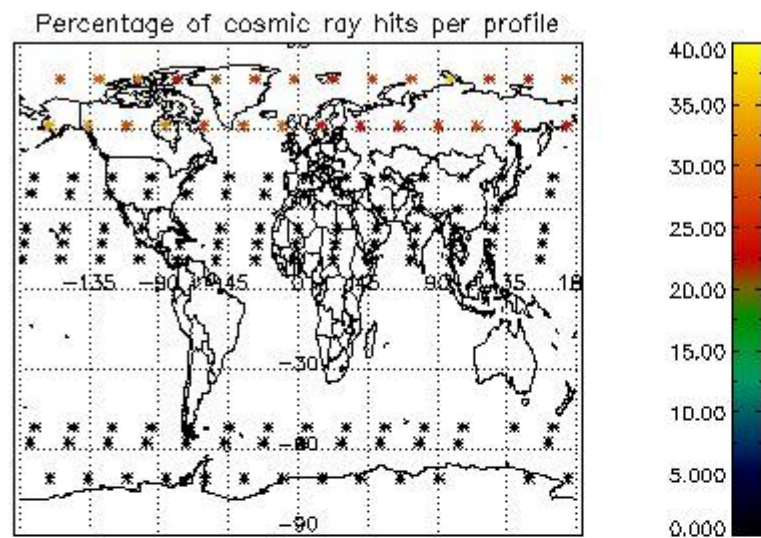
Percentage of star falling outside central band per profile



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

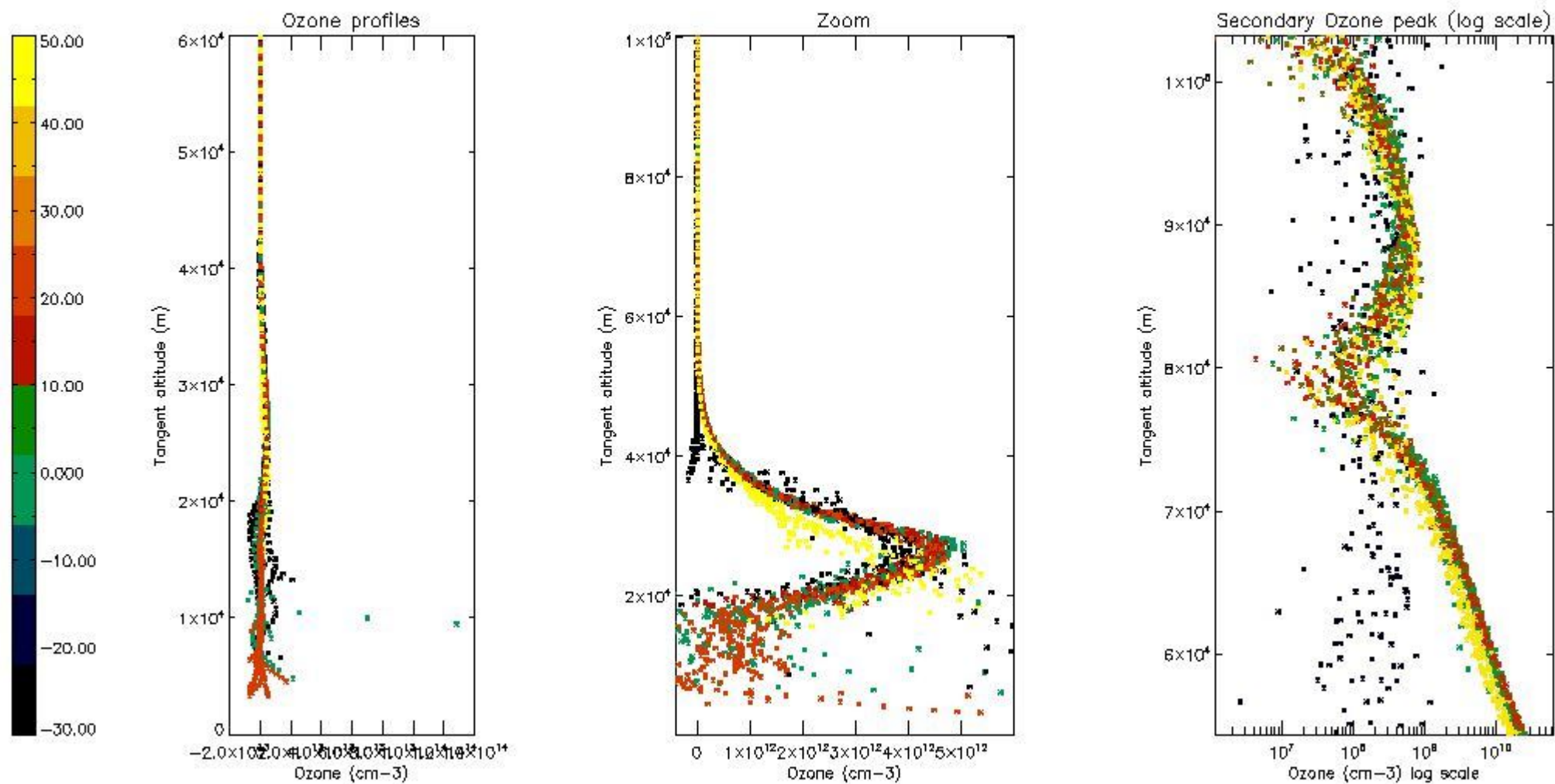
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	35
STD < 20	20

STD < 10	16
STD < 5	10

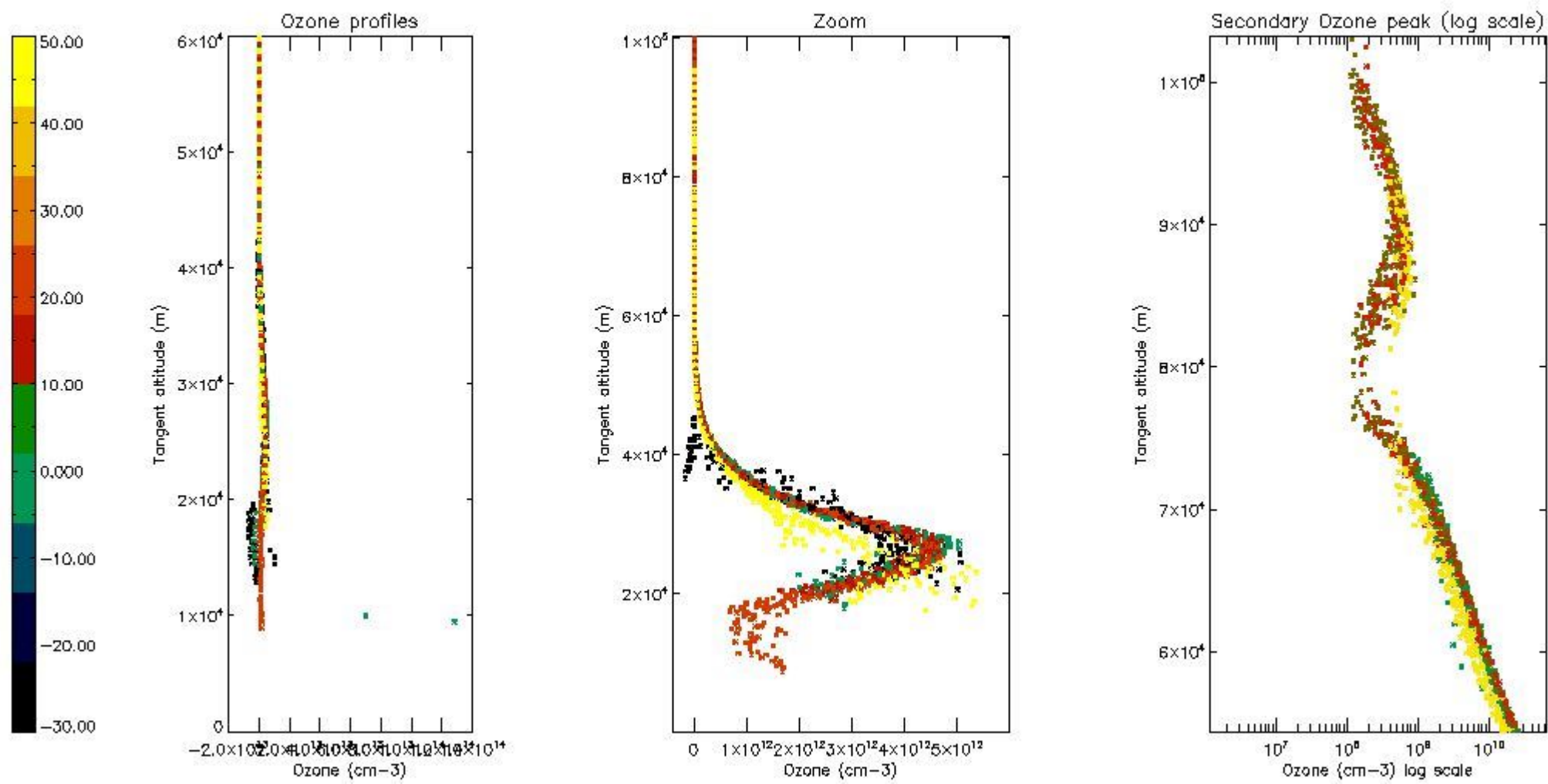
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



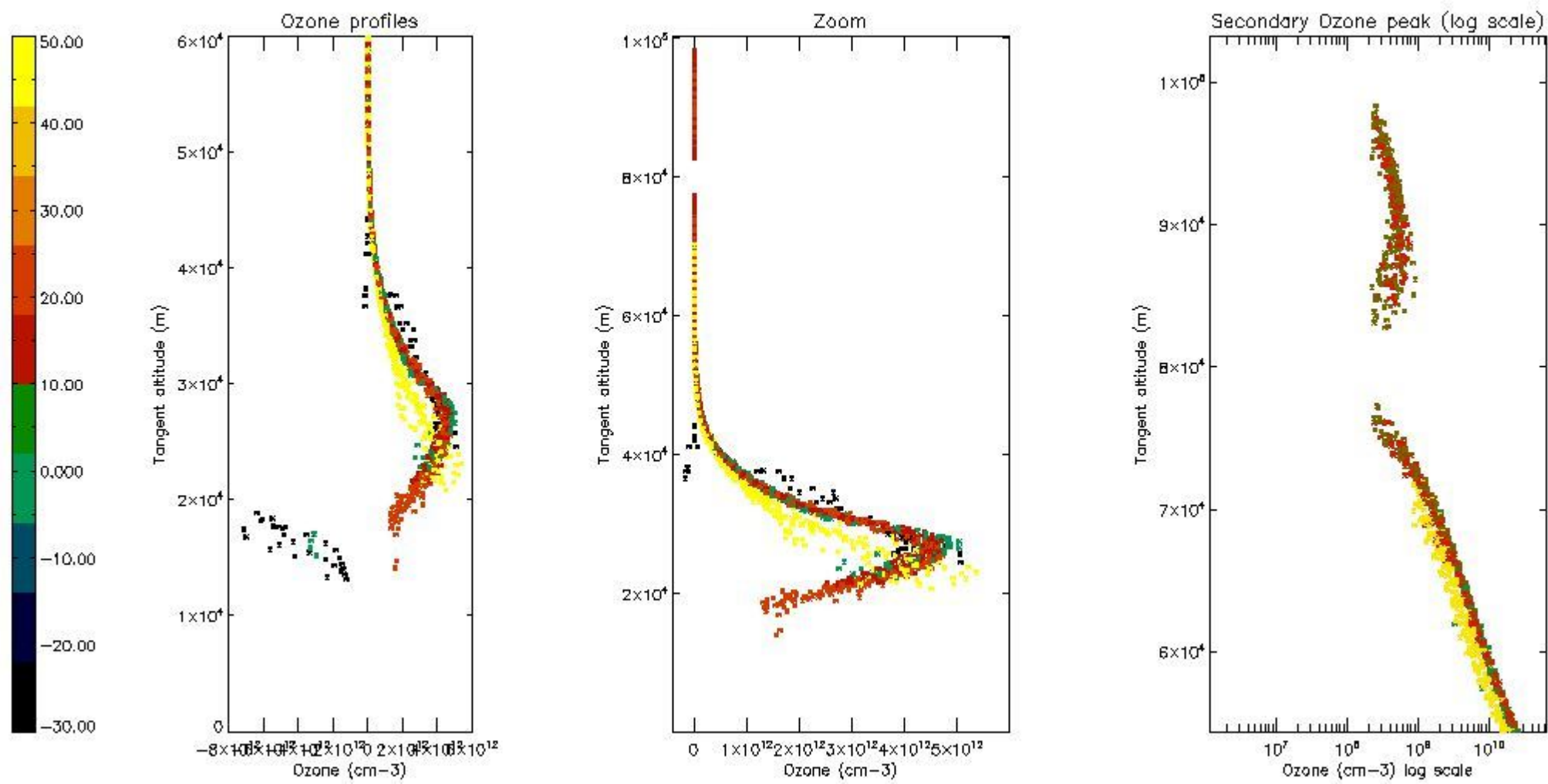
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



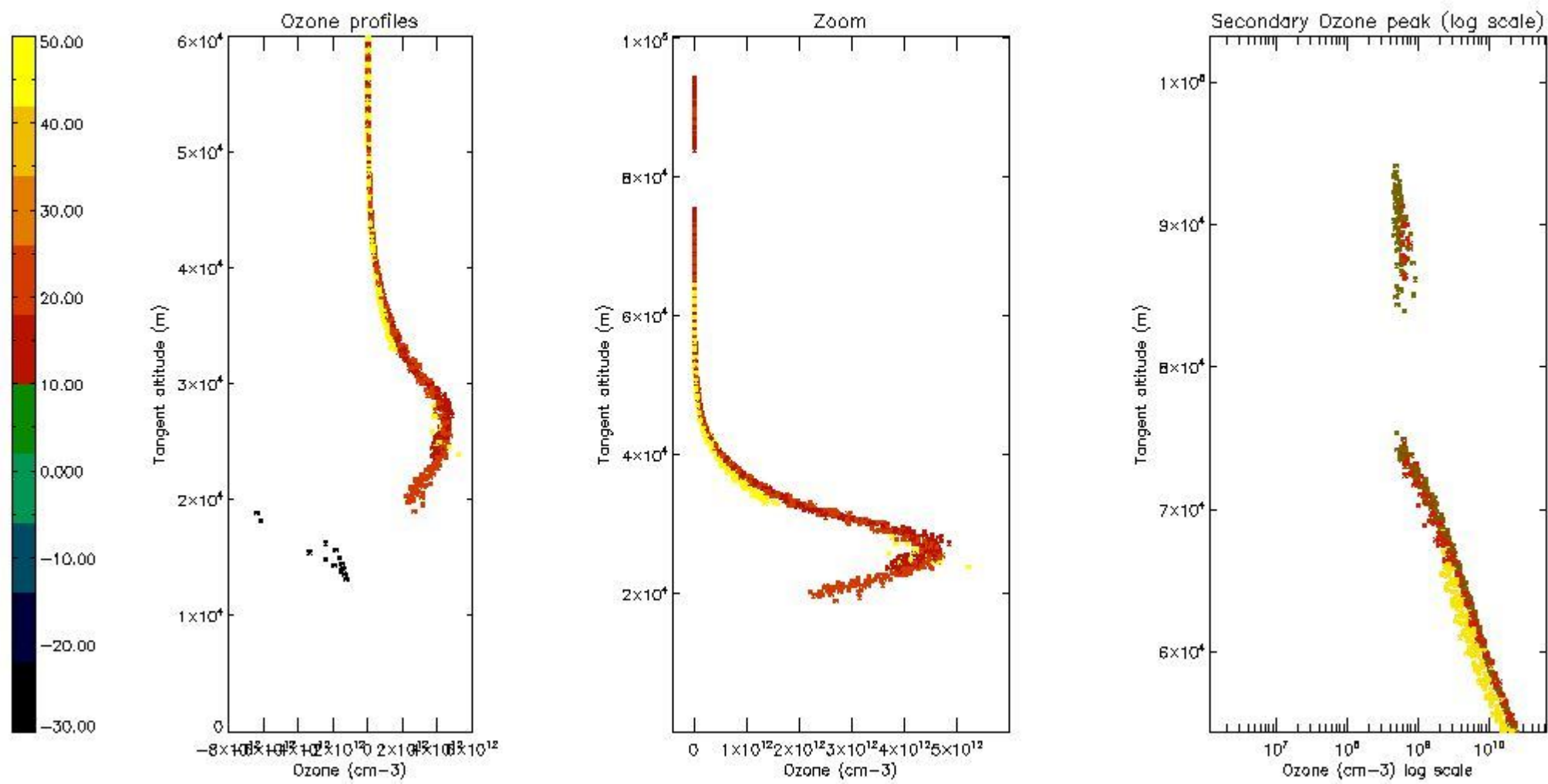
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



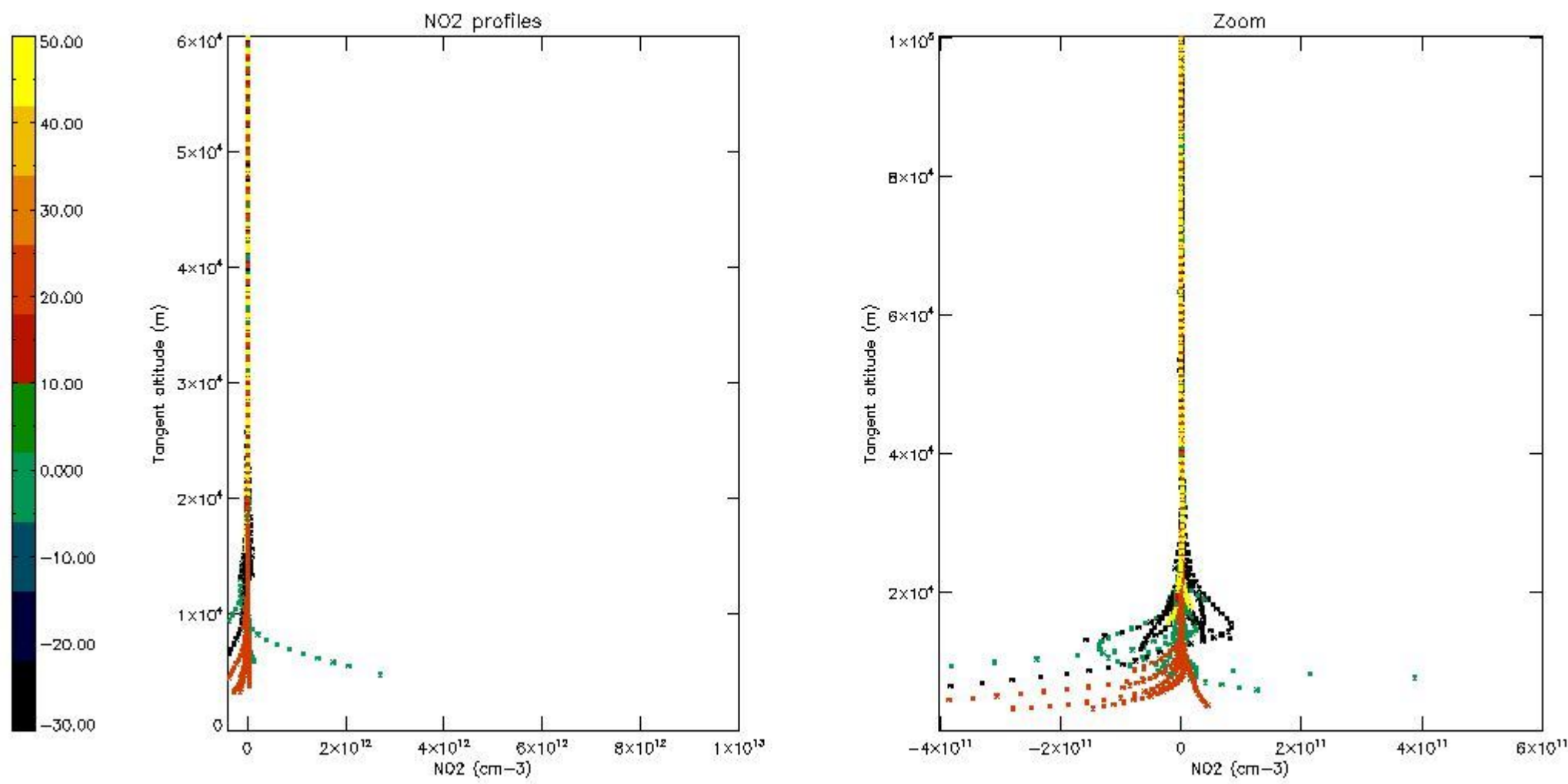
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



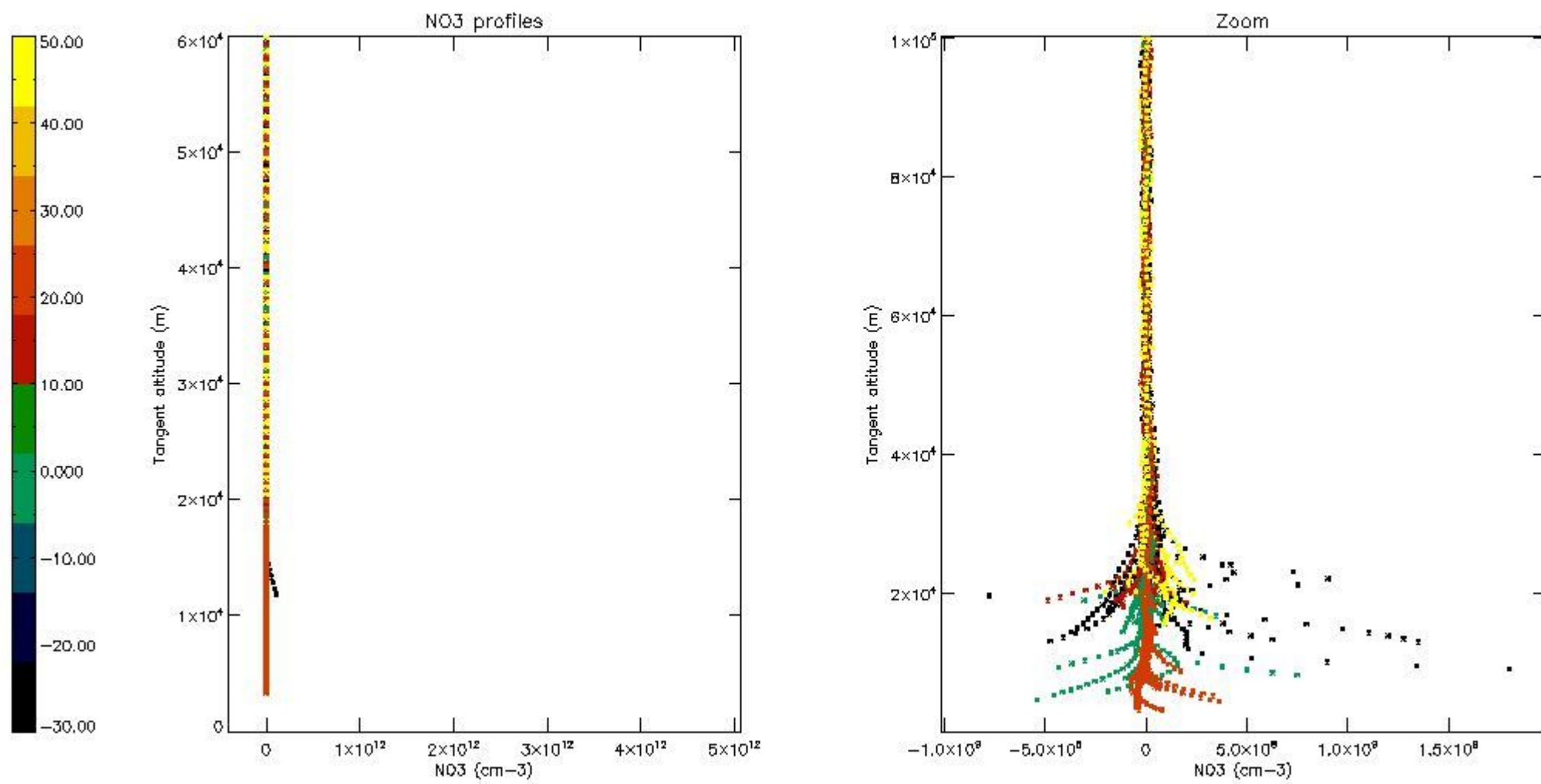
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



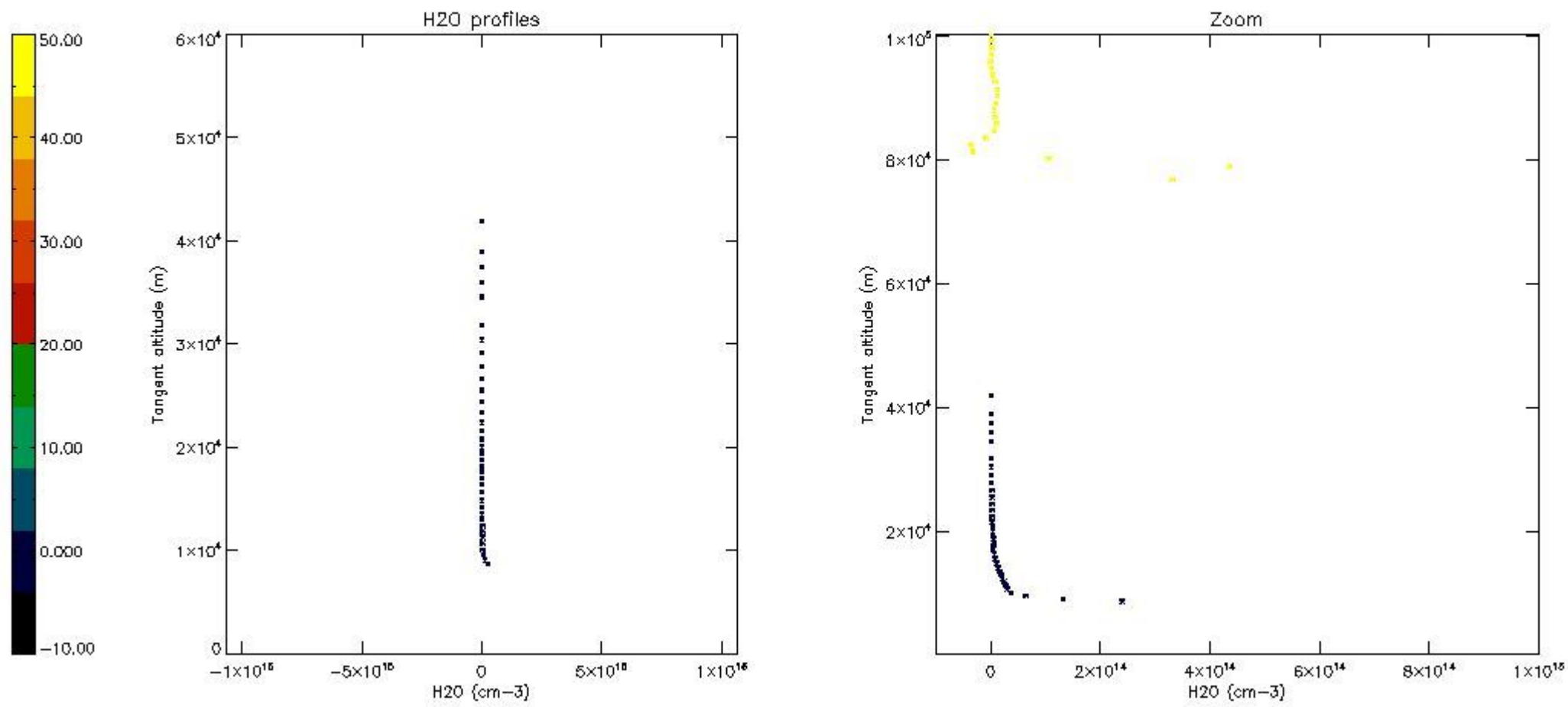
5.7 Plot NO3 profiles for all STD (dark without errors)

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	13-NOV-2009 01:11:37
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	13-NOV-2009 01:11:37
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	13-NOV-2009 01:11:37

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[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	26APR2013 13:52:22
Data source version	GOMOS/6.01
Start time of products	13-11-2009 (13NOV2009 00:00:00)
Stop time of products	14-11-2009 (14NOV2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	220
Nb of prods with errors	0

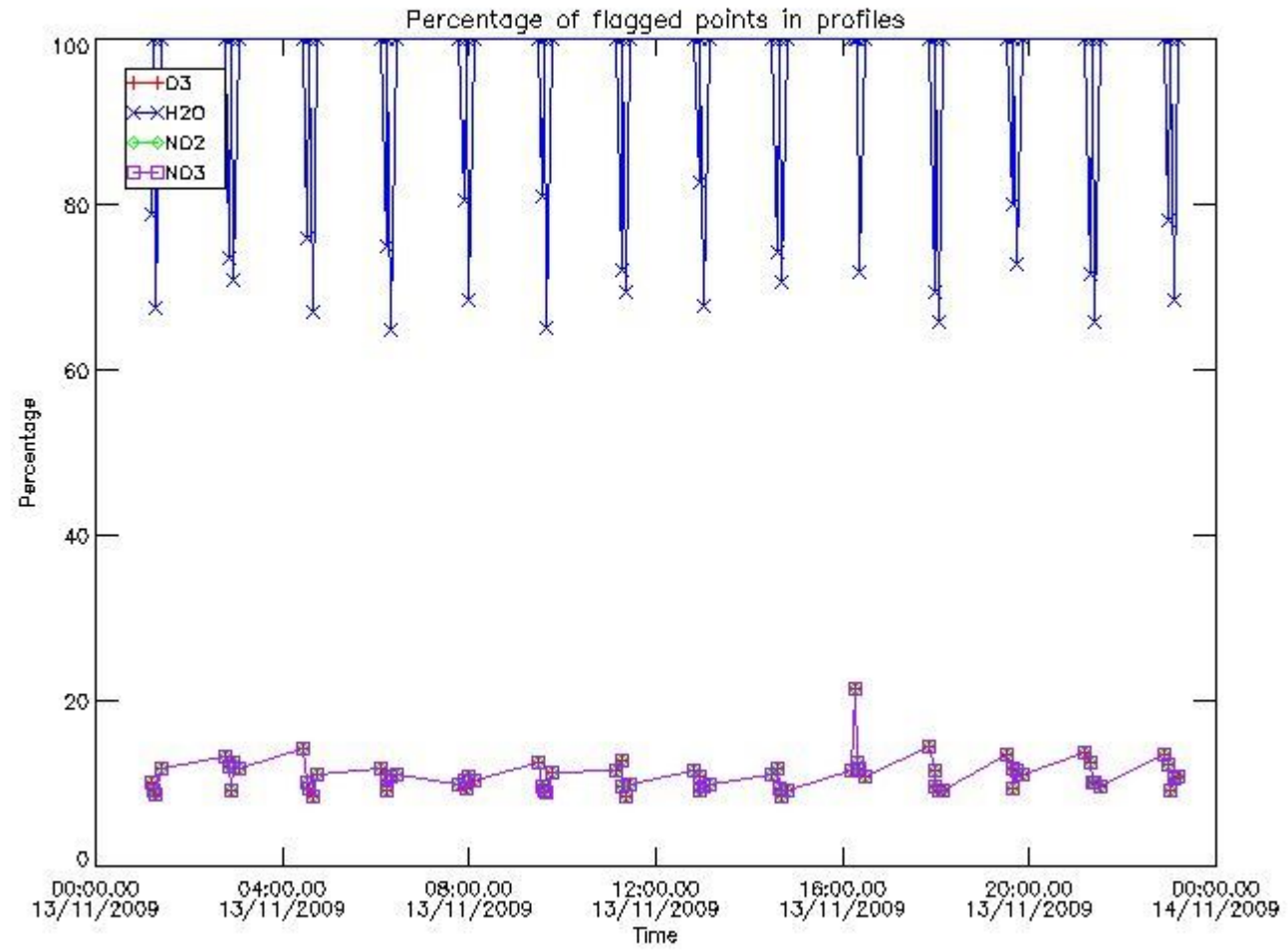
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20091113_011137_000000502084_00146_40280_0290.N1	13-NOV-2009 01:11:37	Dark	50.000	41	Eps Car	1.8600	4100.0	100	40280	No
2	GOM_NL__2PRFIN20091113_011305_000000562084_00146_40280_0291.N1	13-NOV-2009 01:13:05	Dark	56.000	70	Zet Pup	2.2460	39000.	112	40280	No
3	GOM_NL__2PRFIN20091113_011705_000000592084_00146_40280_0292.N1	13-NOV-2009 01:17:05	Dark	59.000	2	Alp Car	-0.73600	7000.0	118	40280	No
4	GOM_NL__2PRFIN20091113_012348_000000432084_00146_40280_0293.N1	13-NOV-2009 01:23:48	Dark	43.000	108	Alp Col	2.6520	15200.	86	40280	No
5	GOM_NL__2PRFIN20091113_013332_000000532084_00146_40280_0294.N1	13-NOV-2009 01:33:32	Straylight	53.000	165	34Gam Eri	2.9500	3200.0	106	40280	No
6	GOM_NL__2PRFIN20091113_013912_000000482084_00146_40280_0295.N1	13-NOV-2009 01:39:12	Twilight	48.000	94	92Alp Cet	2.5260	3100.0	96	40280	No
7	GOM_NL__2PRFIN20091113_014442_000000392084_00146_40280_0296.N1	13-NOV-2009 01:44:42	Bright	38.500	50	13Alp Ari	2.0070	4250.0	77	40280	No
8	GOM_NL__2PRFIN20091113_014800_000000362084_00146_40280_0297.N1	13-NOV-2009 01:48:00	Bright	36.000	173	4Bet Tri	3.0040	8900.0	72	40280	No
9	GOM_NL__2PRFIN20091113_015004_000000372084_00146_40280_0298.N1	13-NOV-2009 01:50:04	Bright	36.500	73	57Gam1And	2.2600	13100.	73	40280	No
10	GOM_NL__2PRFIN20091113_015146_000000542084_00146_40280_0299.N1	13-NOV-2009 01:51:46	Bright	53.500	149	45Eps Per	2.8880	30000.	107	40280	No
11	GOM_NL__2PRFIN20091113_015324_000000412084_00146_40280_0300.N1	13-NOV-2009 01:53:24	Bright	41.000	35	33Alp Per	1.7950	6250.0	82	40280	No
12	GOM_NL__2PRFIN20091113_021103_000000412084_00146_40280_0301.N1	13-NOV-2009 02:11:03	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	40280	No
13	GOM_NL__2PRFIN20091113_021241_000000402084_00146_40280_0302.N1	13-NOV-2009 02:12:41	Bright	40.000	82	48Bet UMa	2.3650	10600.	80	40280	No
14	GOM_NL__2PRFIN20091113_021639_000000412084_00146_40280_0303.N1	13-NOV-2009 02:16:39	Bright	40.500	174	52Psi UMa	3.0040	4400.0	81	40280	No
15	GOM_NL__2PRFIN20091113_022500_000000442084_00146_40280_0304.N1	13-NOV-2009 02:25:00	Bright	43.500	96	68Del Leo	2.5600	9300.0	87	40280	No
16	GOM_NL__2PRFIN20091113_024523_000000392084_00146_40280_0305.N1	13-NOV-2009 02:45:23	Dark	38.500	113	Mu Vel	2.6920	5000.0	77	40280	No
17	GOM_NL__2PRFIN20091113_025213_000000422084_00147_40281_0299.N1	13-NOV-2009 02:52:13	Dark	42.000	41	Eps Car	1.8600	4100.0	84	40281	No
18	GOM_NL__2PRFIN20091113_025342_000000552084_00147_40281_0300.N1	13-NOV-2009 02:53:42	Dark	55.000	70	Zet Pup	2.2460	39000.	110	40281	No
19	GOM_NL__2PRFIN20091113_025742_000000452084_00147_40281_0301.N1	13-NOV-2009 02:57:42	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	40281	No
20	GOM_NL__2PRFIN20091113_030424_000000432084_00147_40281_0302.N1	13-NOV-2009 03:04:24	Dark	43.000	108	Alp Col	2.6520	15200.	86	40281	No
21	GOM_NL__2PRFIN20091113_031408_000000532084_00147_40281_0303.N1	13-NOV-2009 03:14:08	Straylight	52.500	165	34Gam Eri	2.9500	3200.0	105	40281	No
22	GOM_NL__2PRFIN20091113_031948_000000472084_00147_40281_0304.N1	13-NOV-2009 03:19:48	Twilight	46.500	94	92Alp Cet	2.5260	3100.0	93	40281	No
23	GOM_NL__2PRFIN20091113_032518_000000402084_00147_40281_0305.N1	13-NOV-2009 03:25:18	Bright	39.500	50	13Alp Ari	2.0070	4250.0	79	40281	No
24	GOM_NL__2PRFIN20091113_032836_000000372084_00147_40281_0306.N1	13-NOV-2009 03:28:36	Bright	37.000	173	4Bet Tri	3.0040	8900.0	74	40281	No
25	GOM_NL__2PRFIN20091113_033040_000000372084_00147_40281_0307.N1	13-NOV-2009 03:30:40	Bright	36.500	73	57Gam1And	2.2600	13100.	73	40281	No
26	GOM_NL__2PRFIN20091113_033221_000000452084_00147_40281_0308.N1	13-NOV-2009 03:32:21	Bright	44.500	149	45Eps Per	2.8880	30000.	89	40281	No
27	GOM_NL__2PRFIN20091113_033400_000000382084_00147_40281_0309.N1	13-NOV-2009 03:34:00	Bright	38.000	35	33Alp Per	1.7950	6250.0	76	40281	No
28	GOM_NL__2PRFIN20091113_035138_000000582084_00147_40281_0310.N1	13-NOV-2009 03:51:38	Bright	58.000	36	50Alp UMa	1.8000	6300.0	116	40281	No
29	GOM_NL__2PRFIN20091113_035317_000000412084_00147_40281_0311.N1	13-NOV-2009 03:53:17	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	40281	No
30	GOM_NL__2PRFIN20091113_035715_000000542084_00147_40281_0312.N1	13-NOV-2009 03:57:15	Bright	54.000	174	52Psi UMa	3.0040	4400.0	108	40281	No
31	GOM_NL__2PRFIN20091113_040536_000000462084_00147_40281_0313.N1	13-NOV-2009 04:05:36	Bright	46.000	96	68Del Leo	2.5600	9300.0	92	40281	No
32	GOM_NL__2PRFIN20091113_042600_000000432084_00147_40281_0314.N1	13-NOV-2009 04:26:00	Dark	43.000	113	Mu Vel	2.6920	5000.0	86	40281	No
33	GOM_NL__2PRFIN20091113_043250_000000512084_00148_40282_0308.N1	13-NOV-2009 04:32:50	Dark	50.500	41	Eps Car	1.8600	4100.0	101	40282	No
34	GOM_NL__2PRFIN20091113_043419_000000552084_00148_40282_0309.N1	13-NOV-2009 04:34:19	Dark	54.500	70	Zet Pup	2.2460	39000.	109	40282	No
35	GOM_NL__2PRFIN20091113_043818_000000612084_00148_40282_0310.N1	13-NOV-2009 04:38:18	Dark	61.000	2	Alp Car	-0.73600	7000.0	122	40282	No
36	GOM_NL__2PRFIN20091113_044501_000000462084_00148_40282_0311.N1	13-NOV-2009 04:45:01	Dark	46.000	108	Alp Col	2.6520	15200.	92	40282	No
37	GOM_NL__2PRFIN20091113_045444_000000532084_00148_40282_0312.N1	13-NOV-2009 04:54:44	Straylight	52.500	165	34Gam Eri	2.9500	3200.0	105	40282	No
38	GOM_NL__2PRFIN20091113_050024_000000482084_00148_40282_0313.N1	13-NOV-2009 05:00:24	Twilight	47.500	94	92Alp Cet	2.5260	3100.0	95	40282	No
39	GOM_NL__2PRFIN20091113_050554_000000402084_00148_40282_0314.N1	13-NOV-2009 05:05:54	Bright	40.000	50	13Alp Ari	2.0070	4250.0	80	40282	No
40	GOM_NL__2PRFIN20091113_050912_000000372084_00148_40282_0315.N1	13-NOV-2009 05:09:12	Bright	36.500	173	4Bet Tri	3.0040	8900.0	73	40282	No
41	GOM_NL__2PRFIN20091113_051116_000000392084_00148_40282_0316.N1	13-NOV-2009 05:11:16	Bright	38.500	73	57Gam1And	2.2600	13100.	77	40282	No
42	GOM_NL__2PRFIN20091113_051256_000000442084_00148_40282_0317.N1	13-NOV-2009 05:12:56	Bright	44.000	149	45Eps Per	2.8880	30000.	88	40282	No

3. Quality information per product

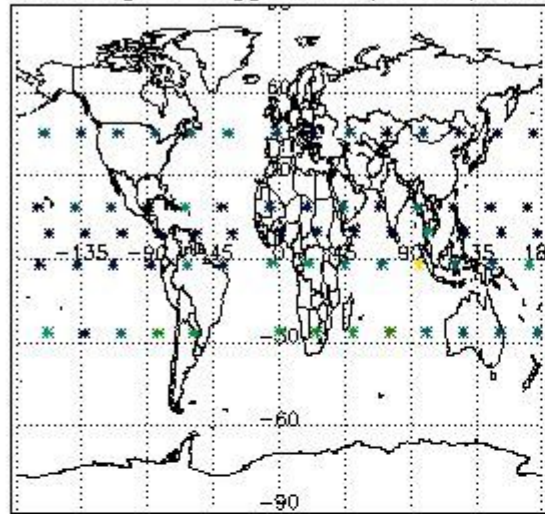
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

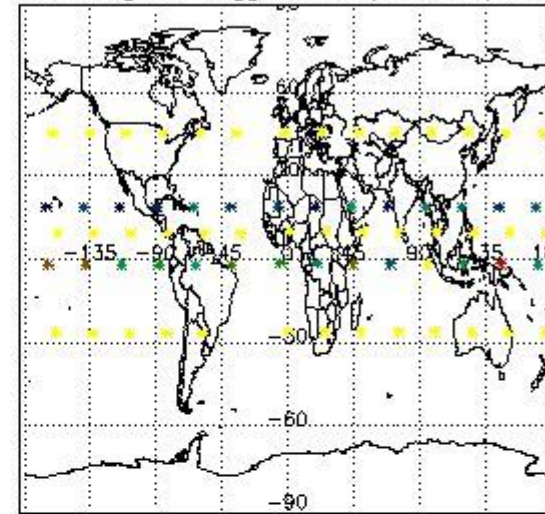


3.2 Plot quality information per product (world map)

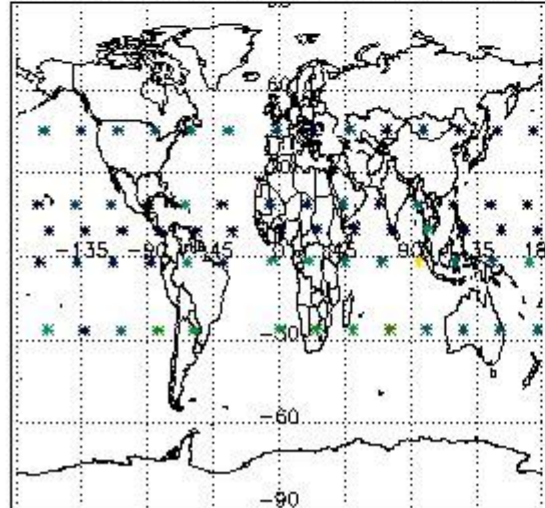
Percentage of flagged data per O3 profile



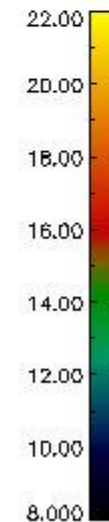
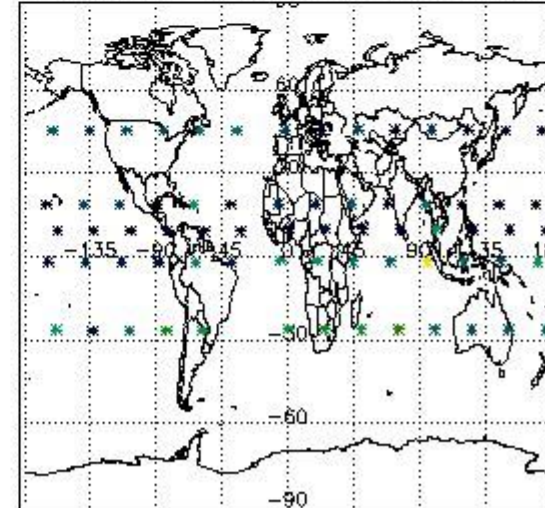
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

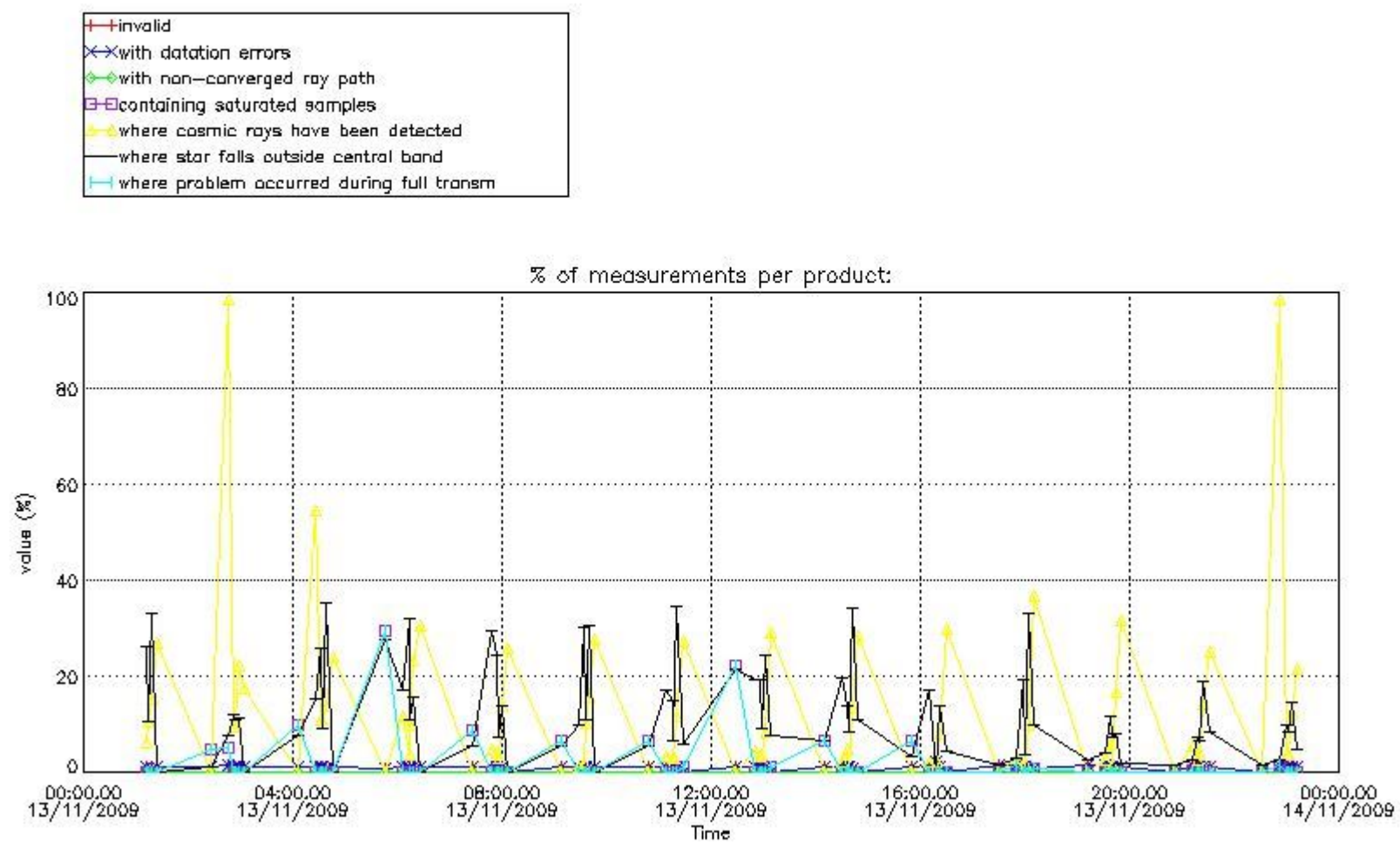


4. Level 1 quality information per product

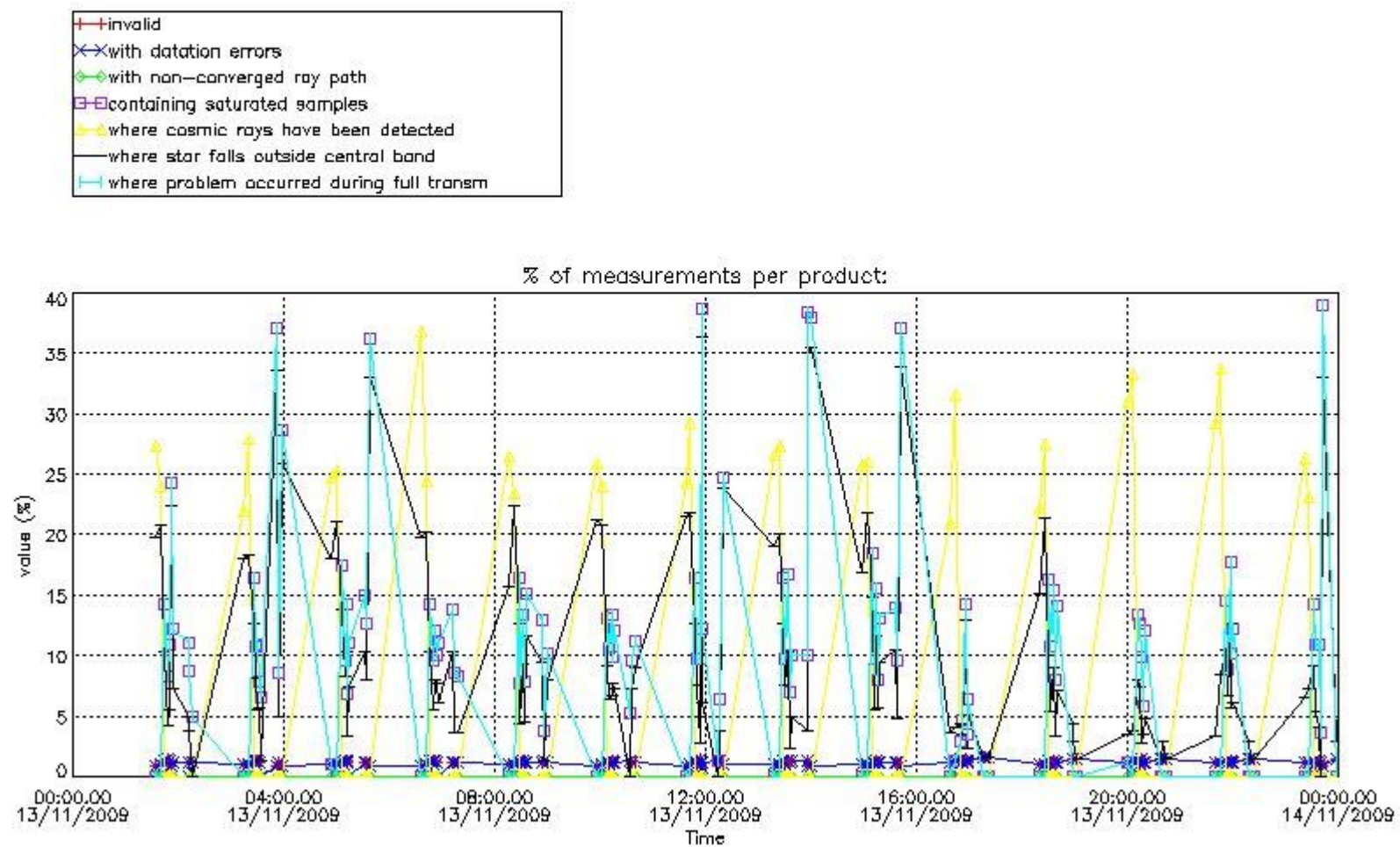
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

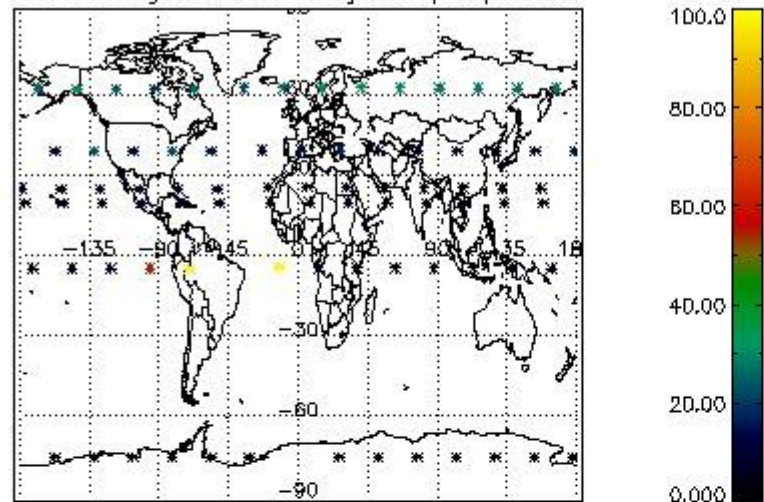


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

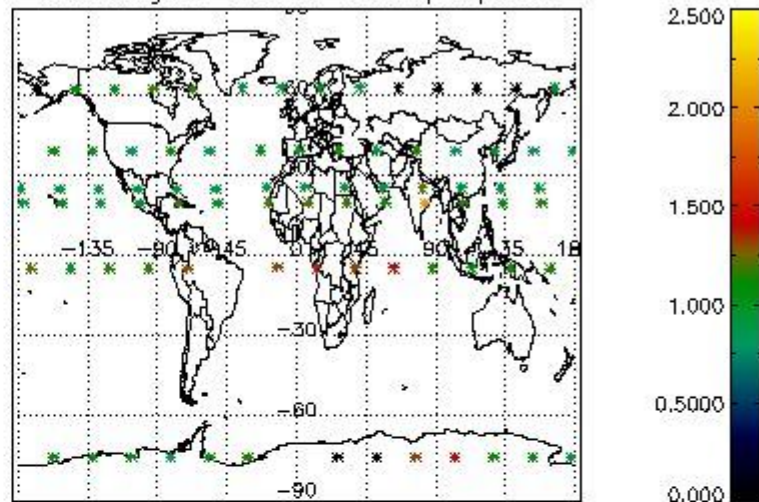


4.2 Plot quality information per product coming from level 1b processing (world map)
 4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

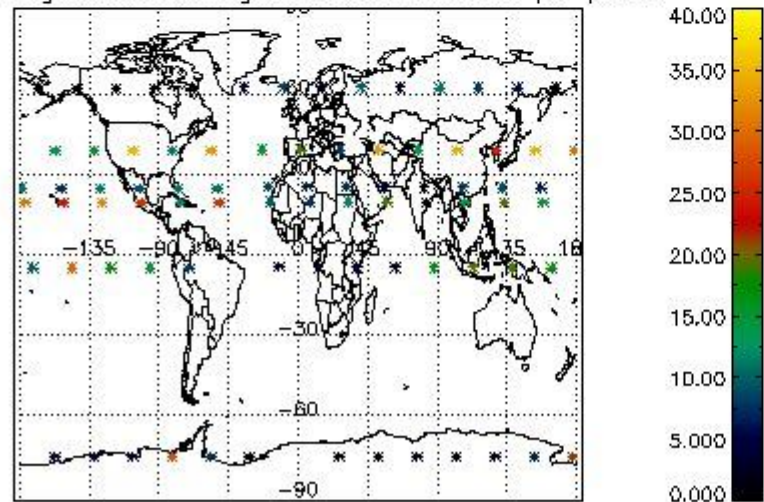
Percentage of cosmic ray hits per profile



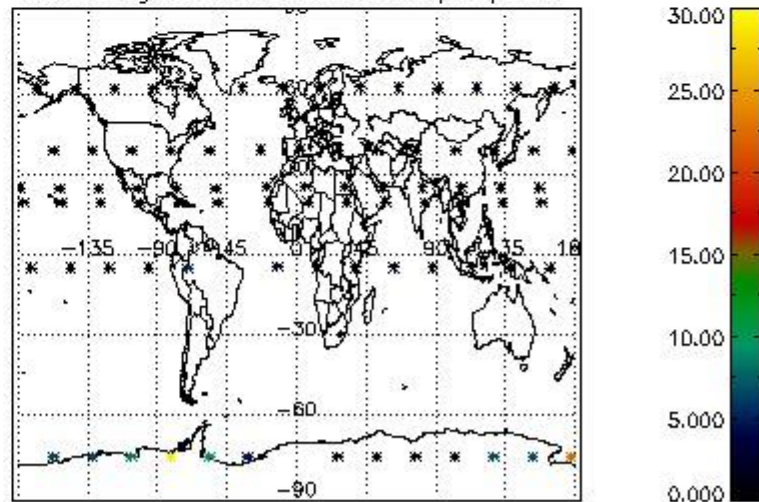
Percentage of datation errors per profile



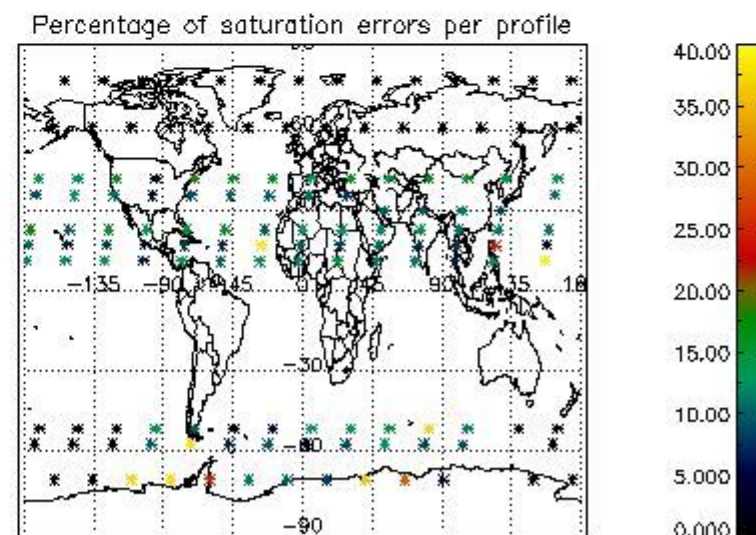
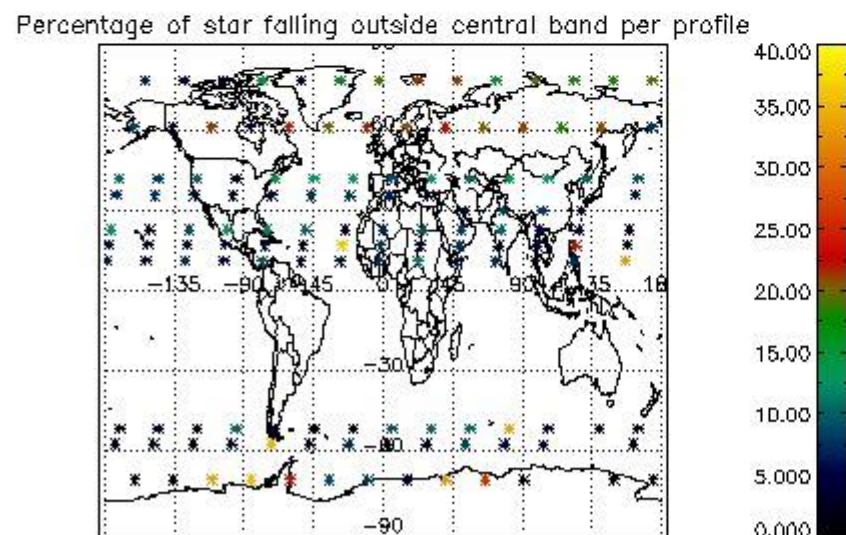
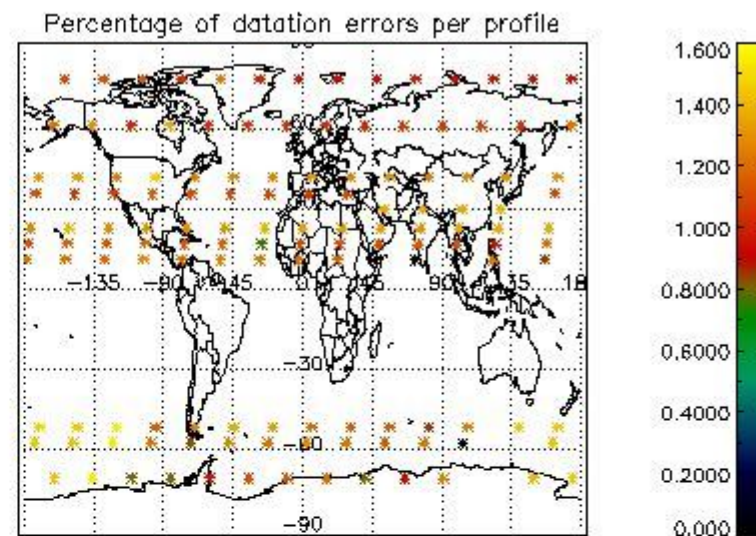
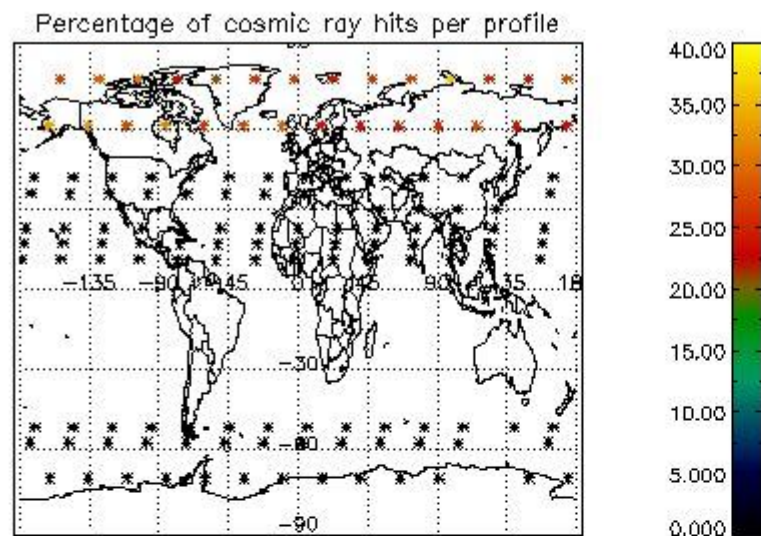
Percentage of star falling outside central band per profile



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

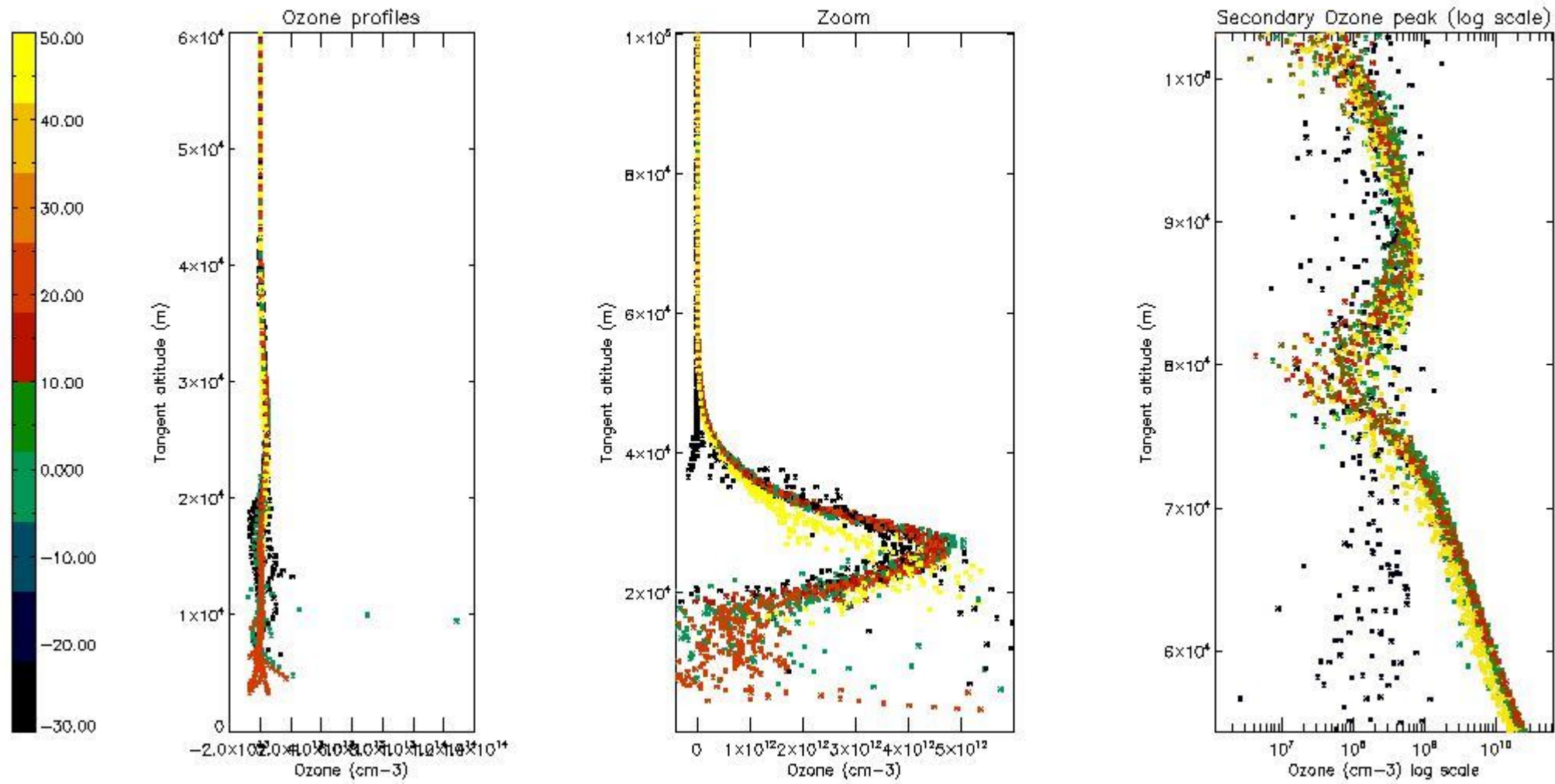
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	35
STD < 20	20

STD < 10	16
STD < 5	10

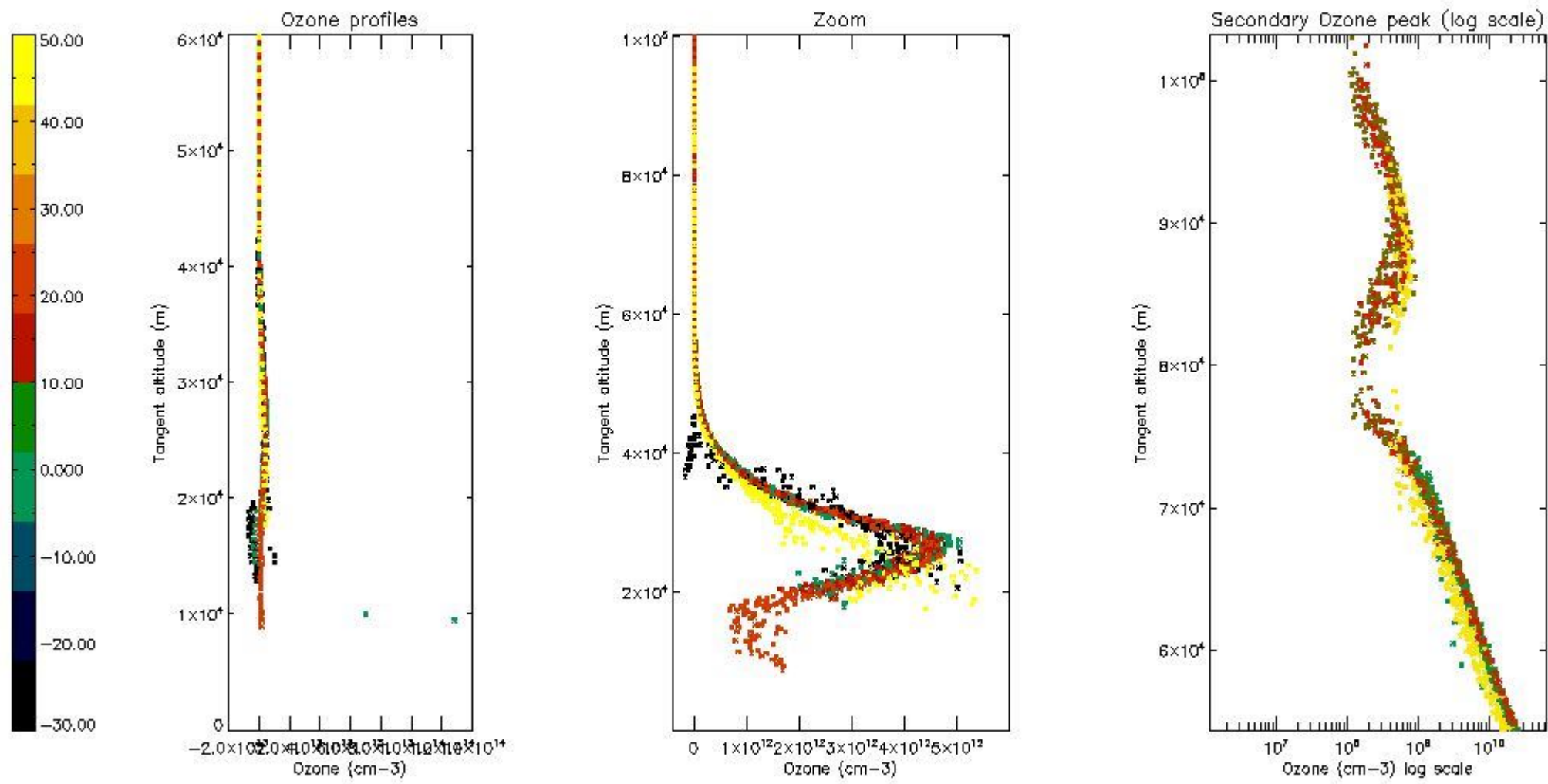
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



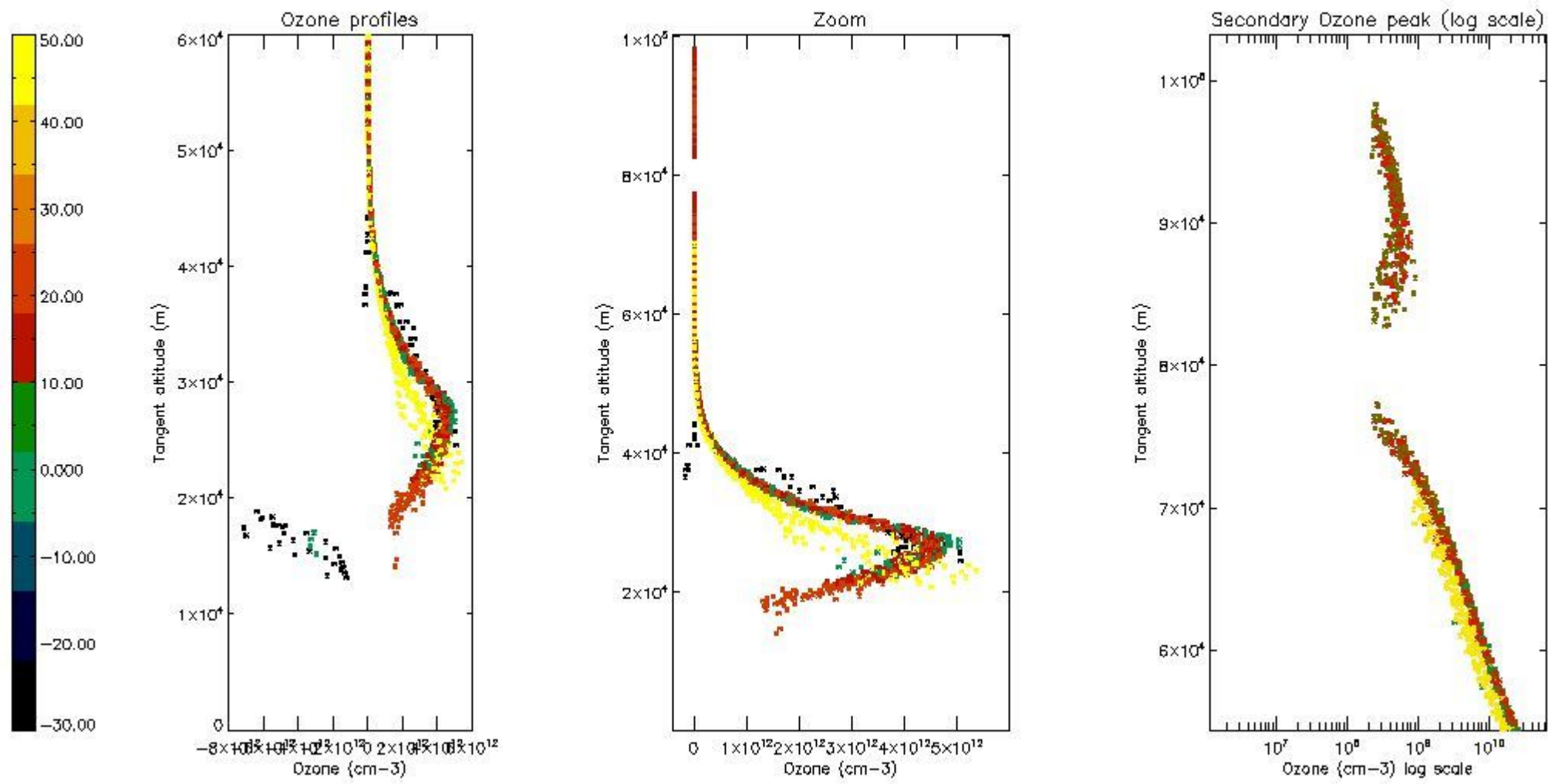
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



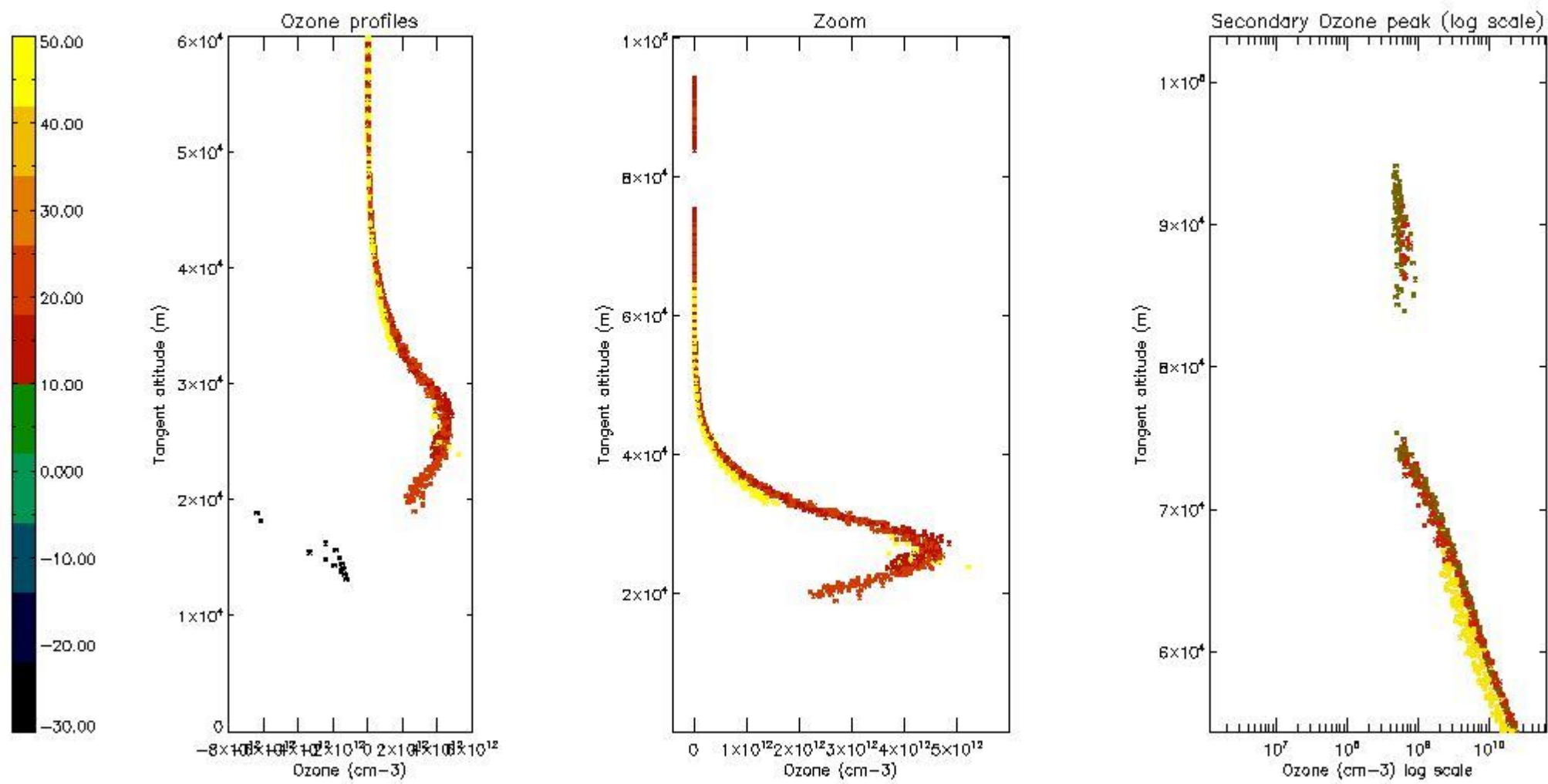
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



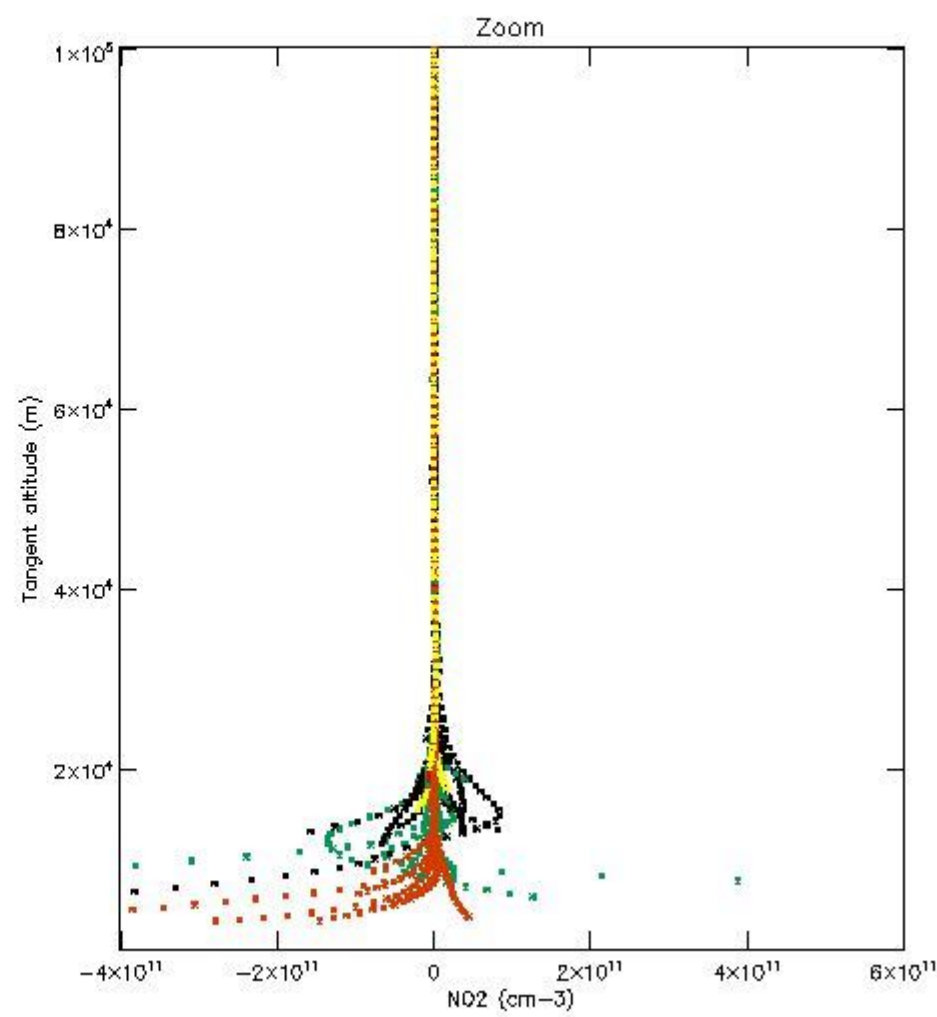
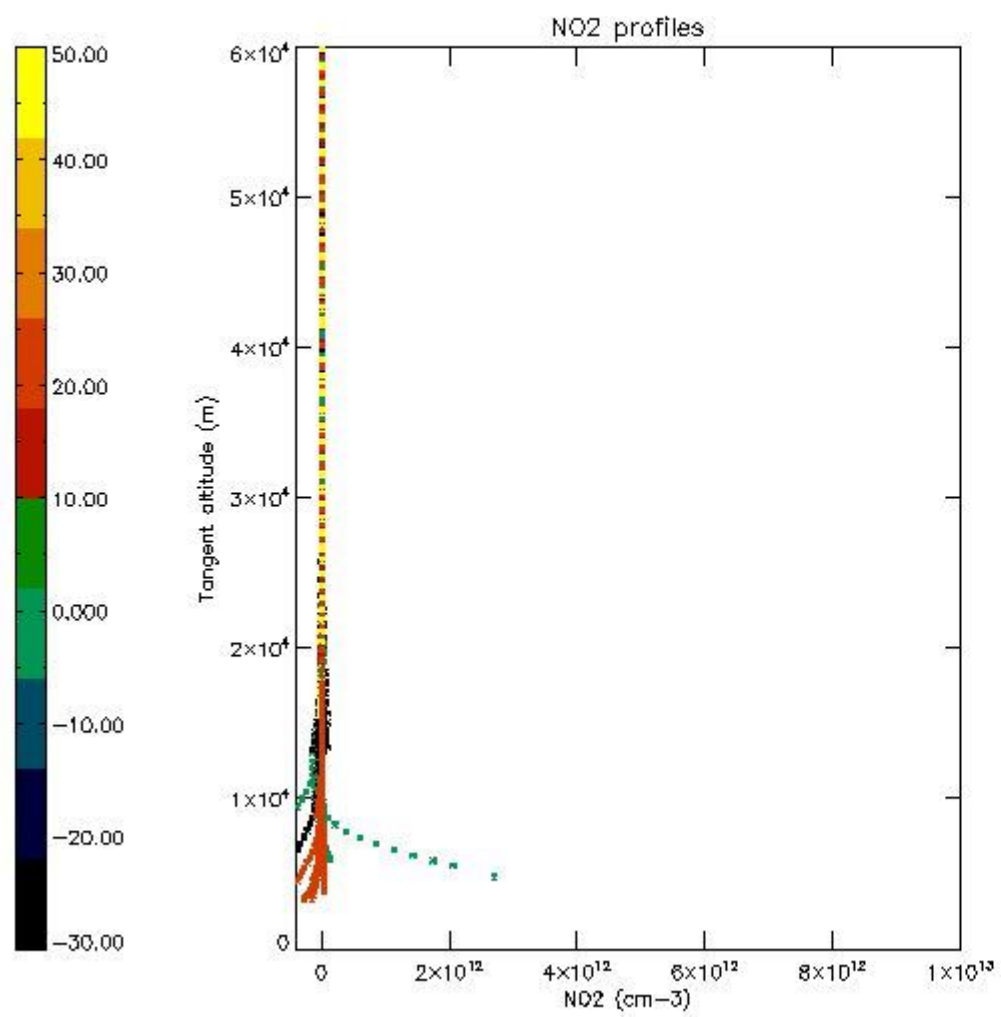
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



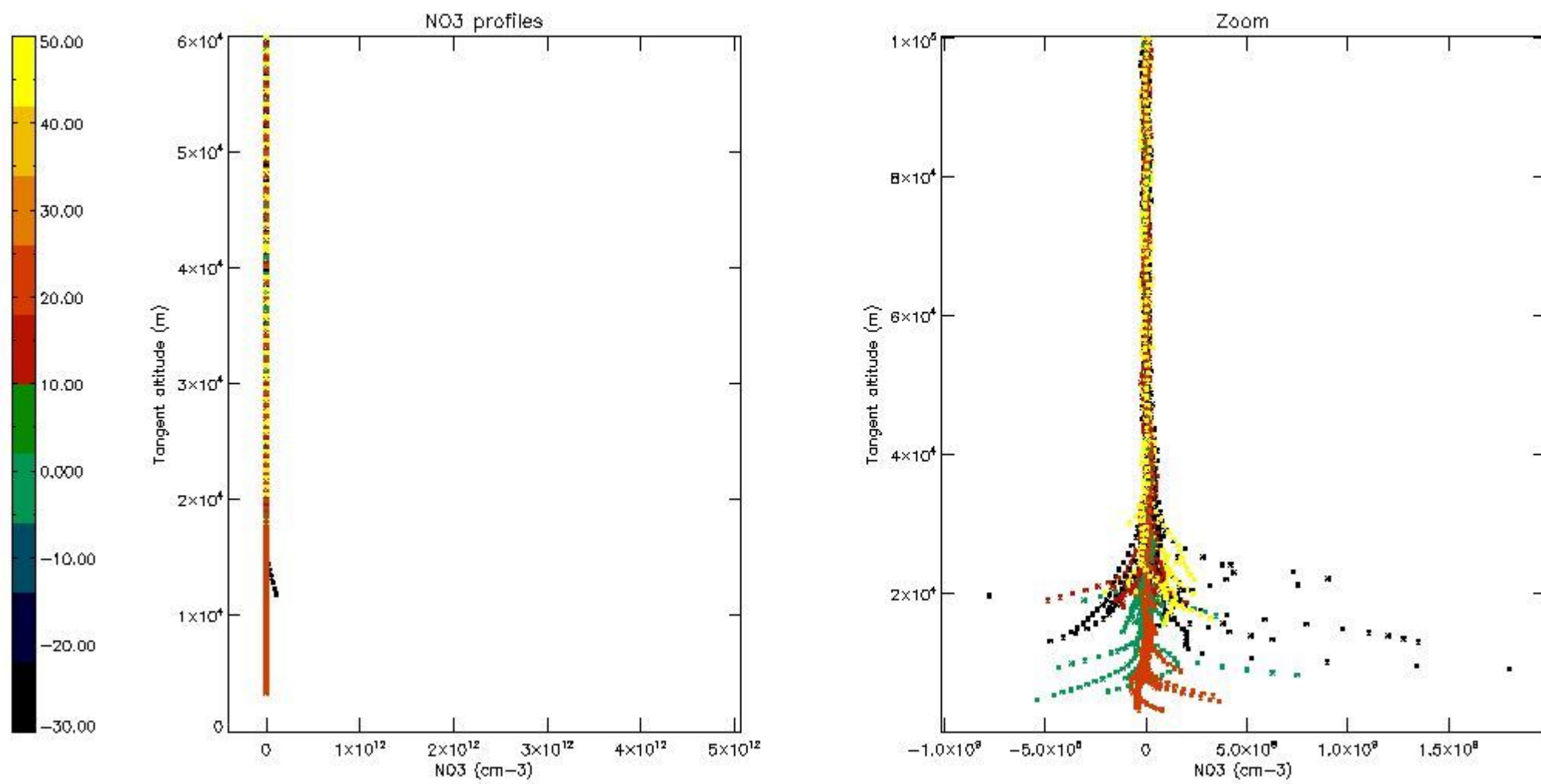
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



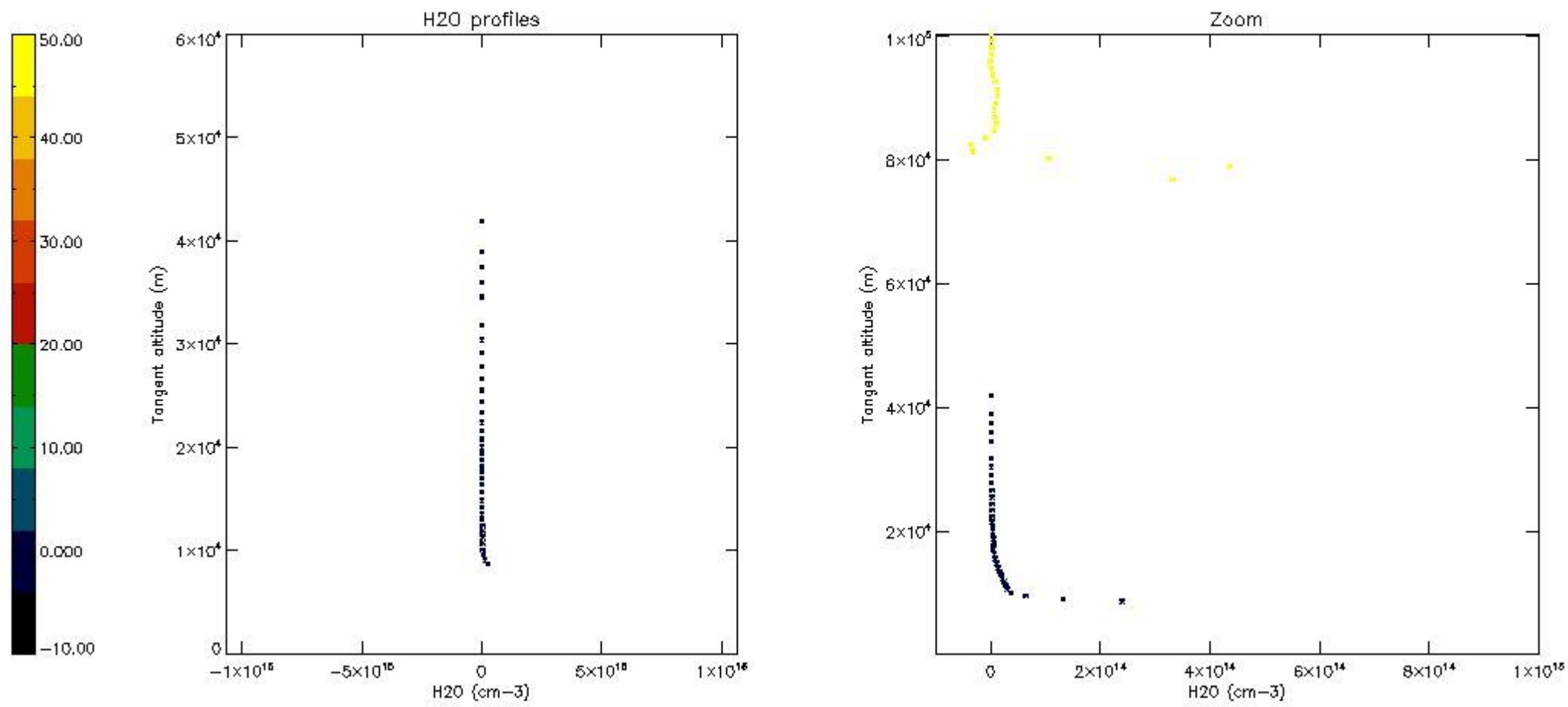
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

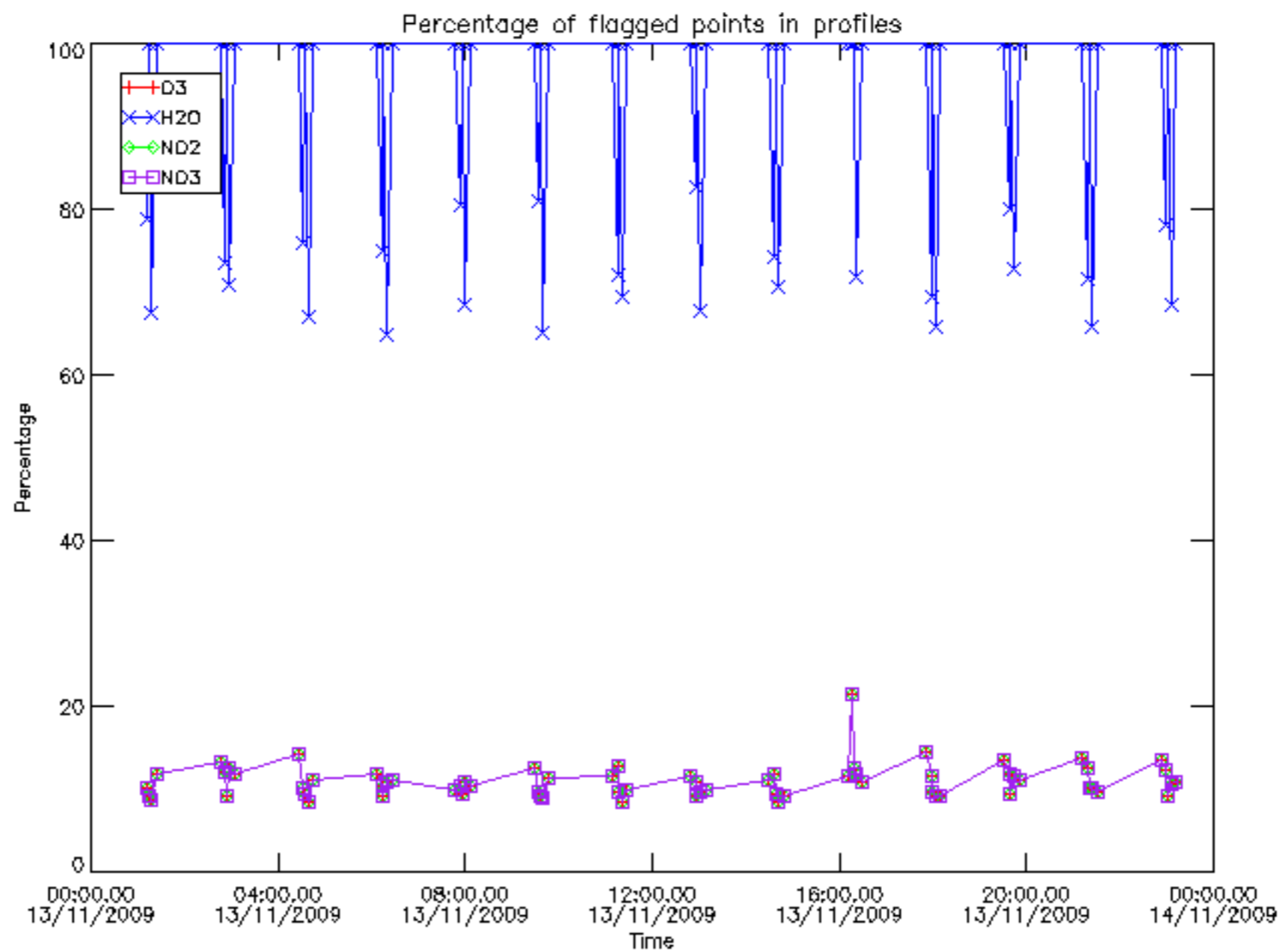
The colorbar represents the latitude.



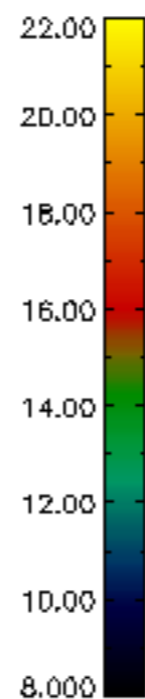
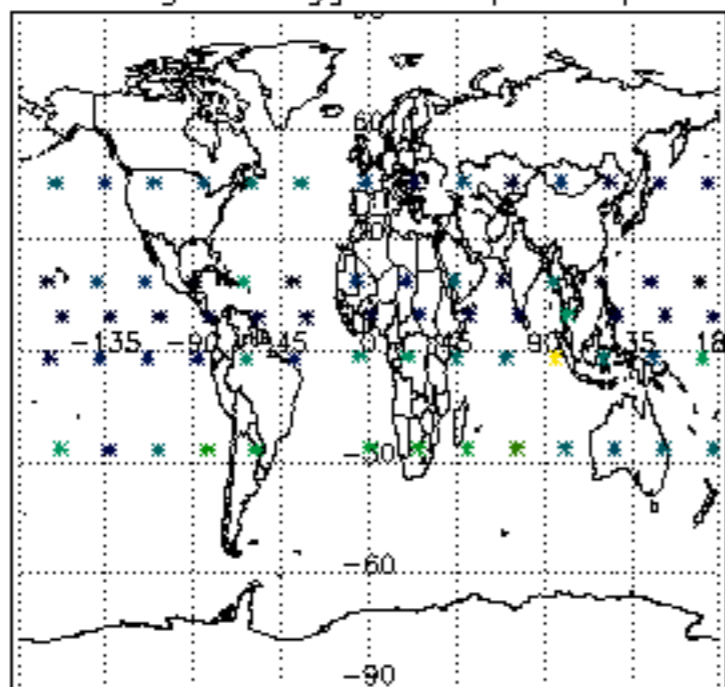
6. Auxiliary Data Files used for the production reported in section 2

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.

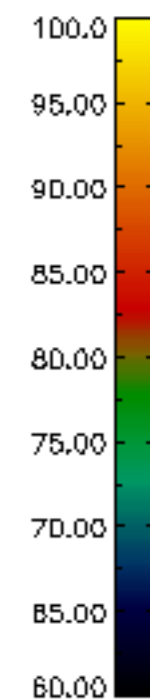
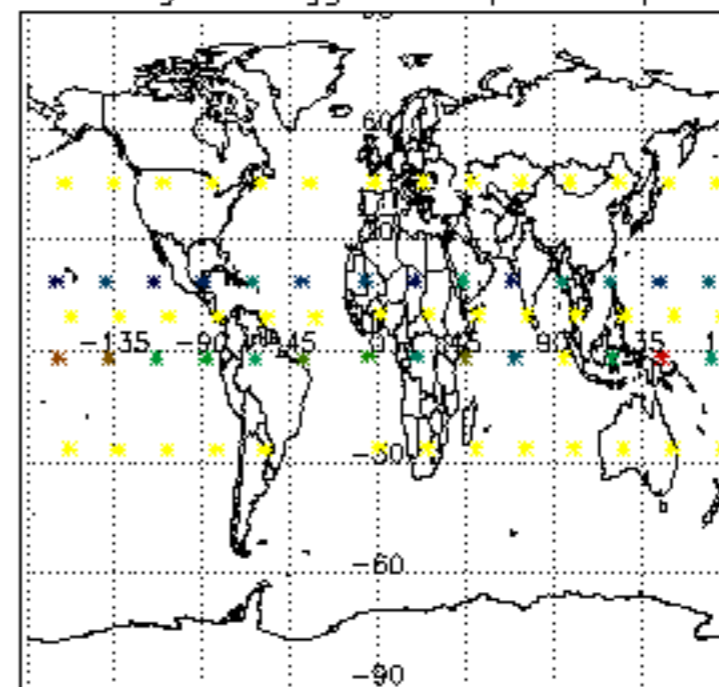
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	13-NOV-2009 01:11:37
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	13-NOV-2009 01:11:37
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	13-NOV-2009 01:11:37



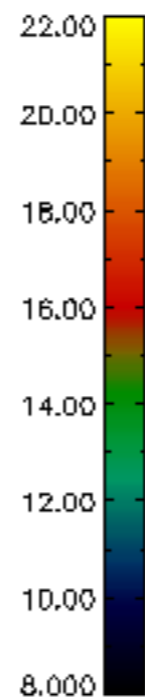
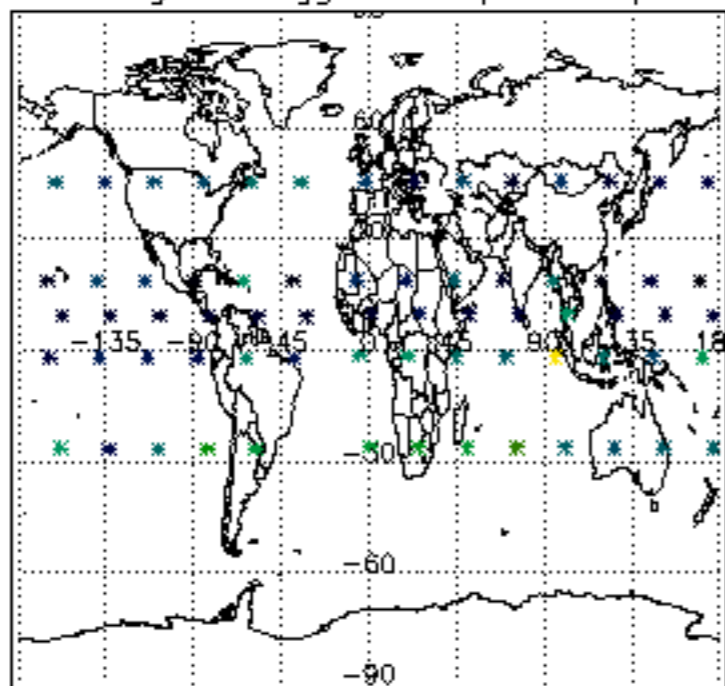
Percentage of flagged data per D3 profile



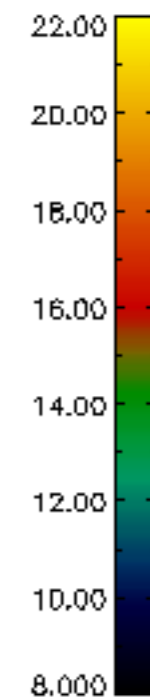
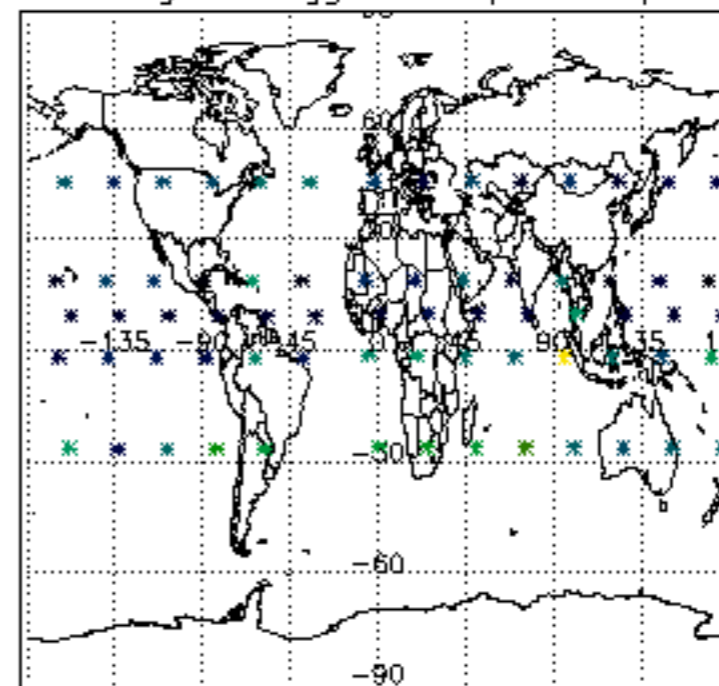
Percentage of flagged data per H2O profile

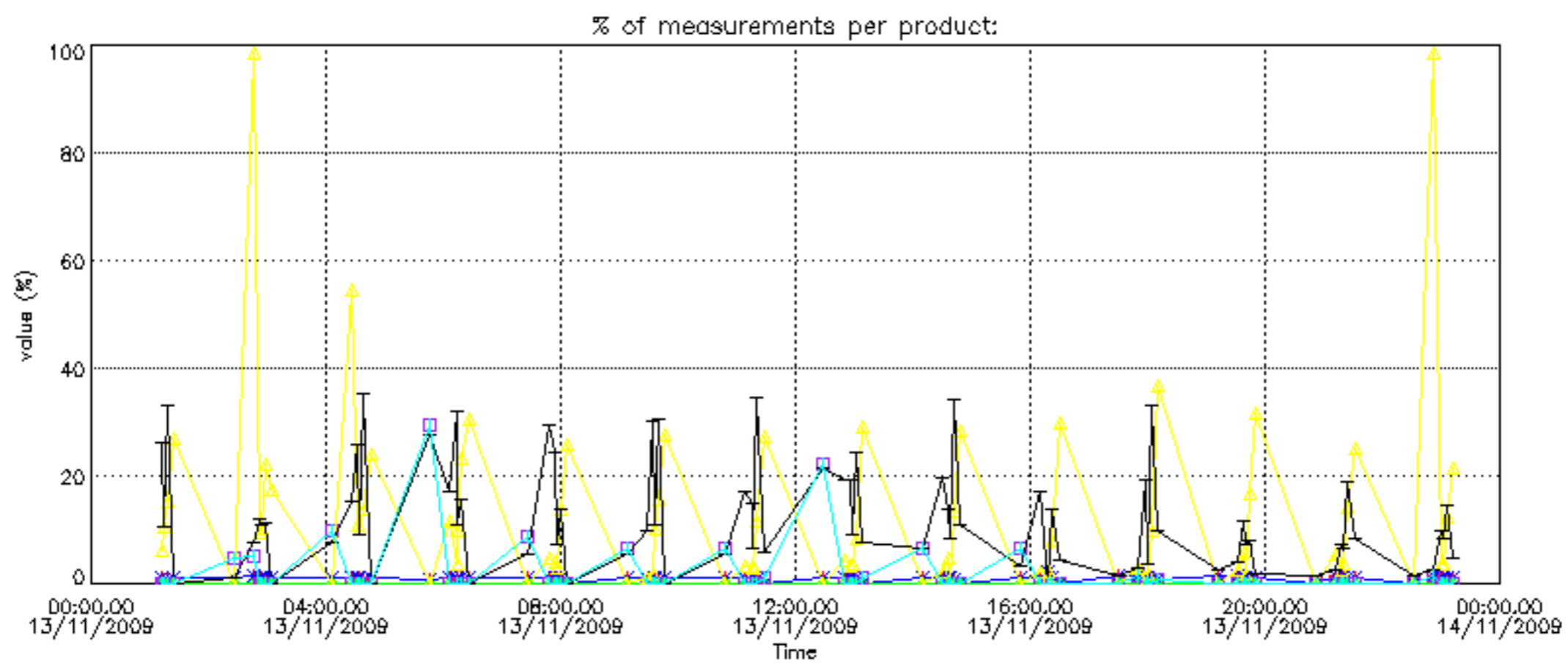
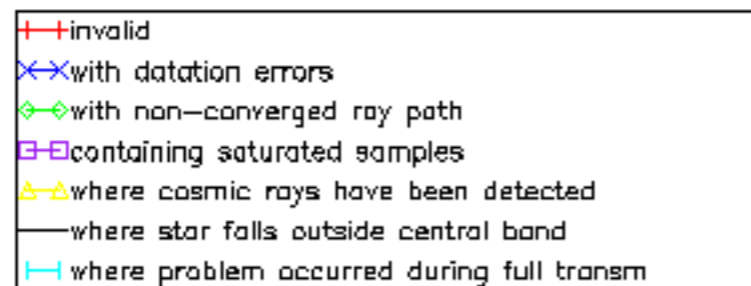


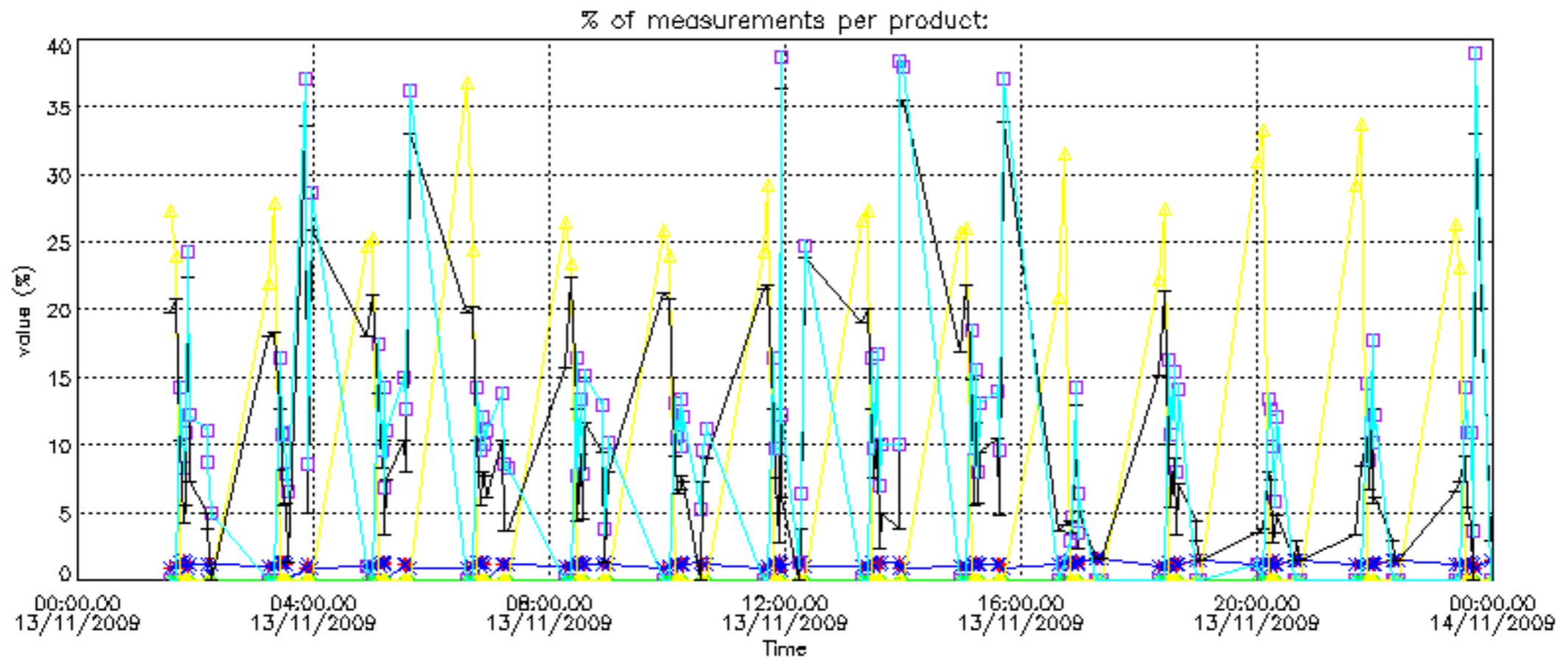
Percentage of flagged data per NO2 profile



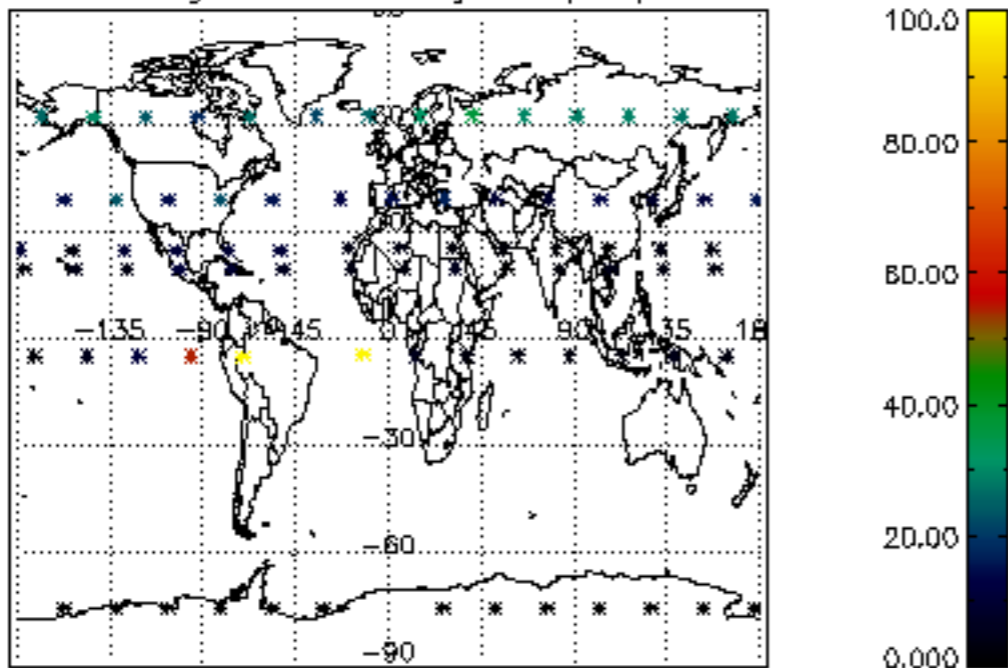
Percentage of flagged data per NO3 profile



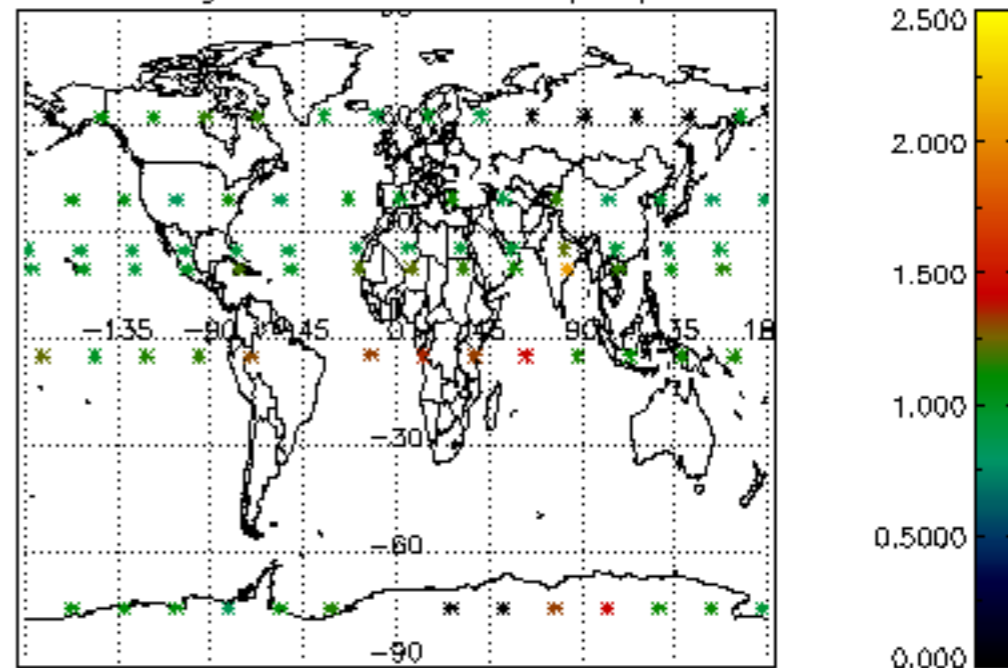




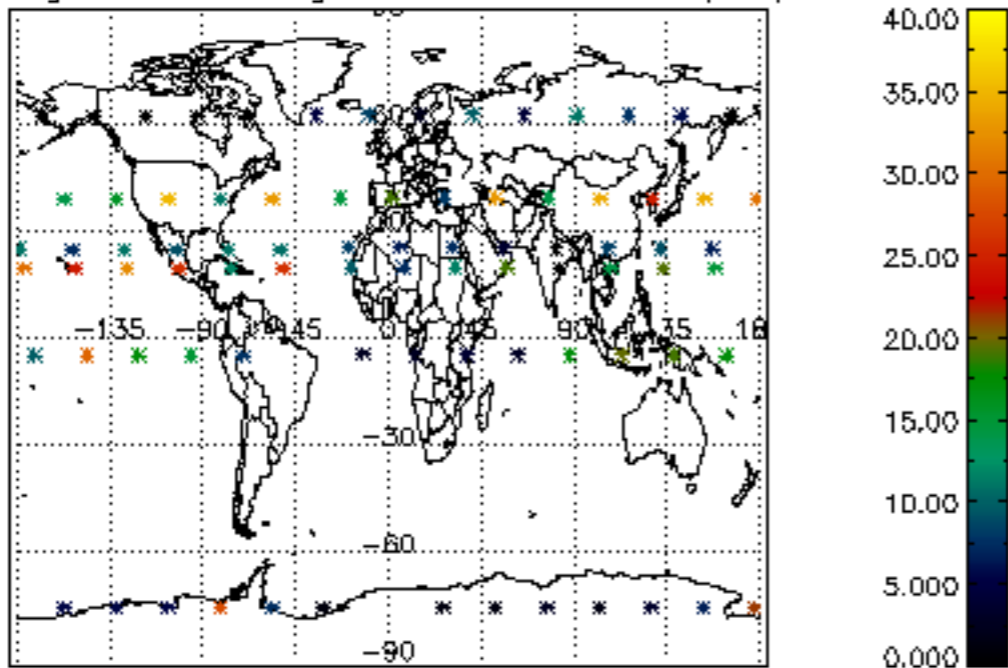
Percentage of cosmic ray hits per profile



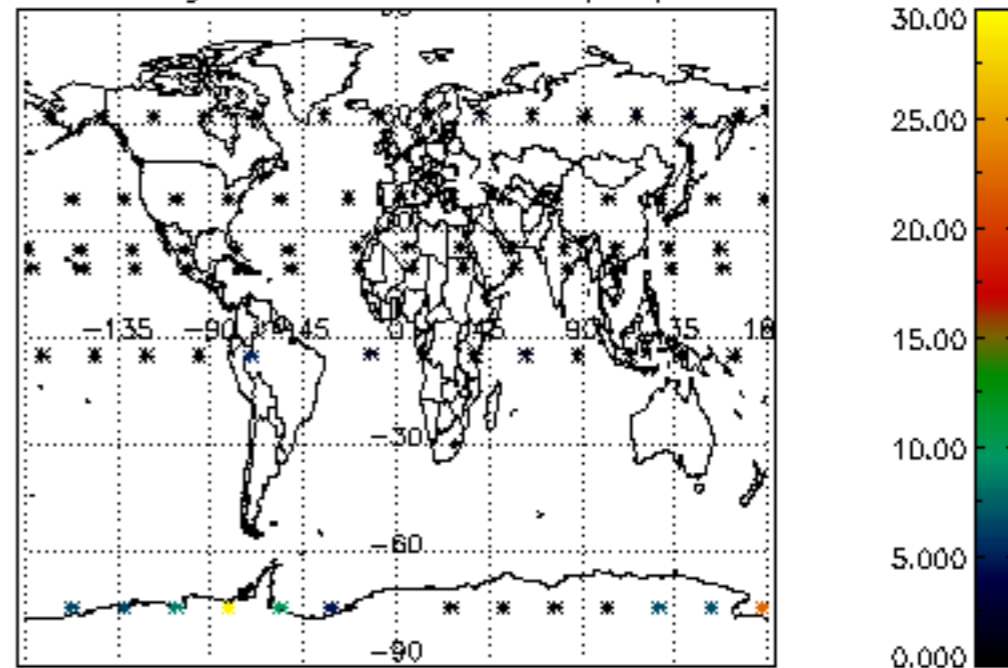
Percentage of datation errors per profile



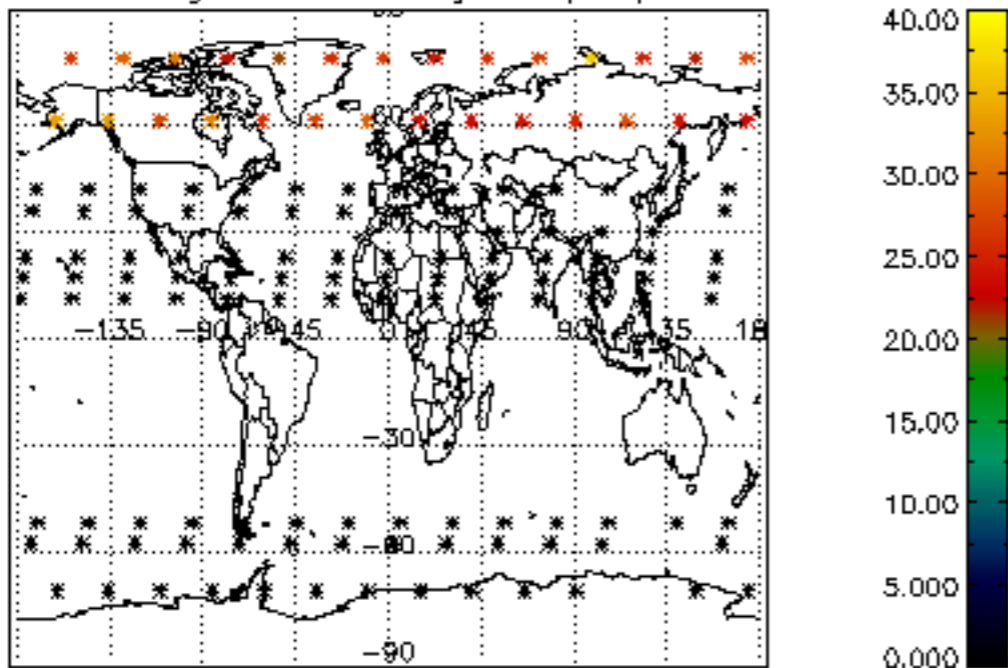
Percentage of star falling outside central band per profile



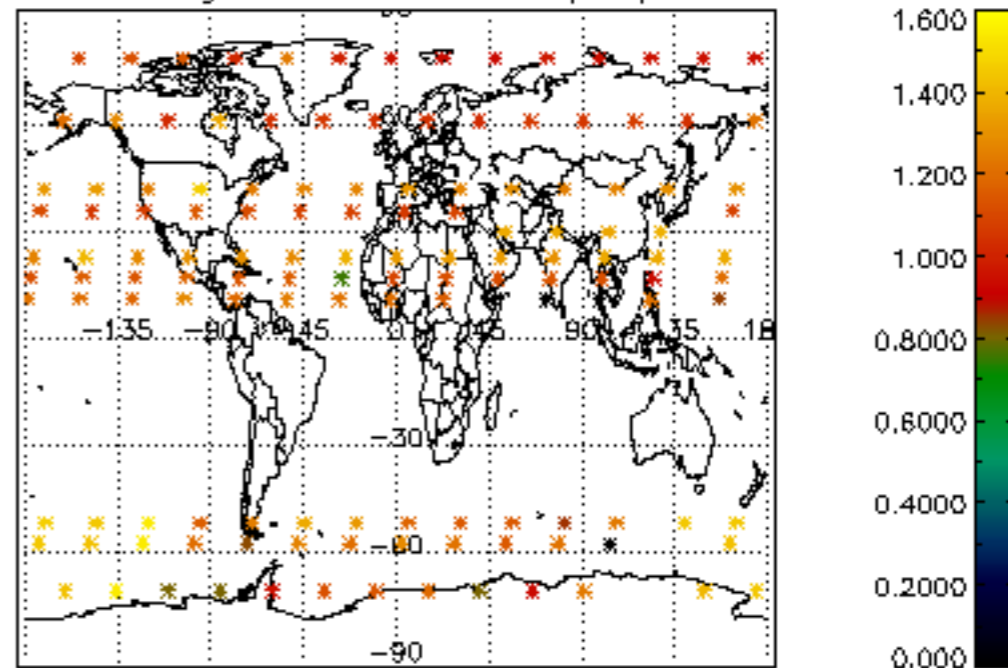
Percentage of saturation errors per profile



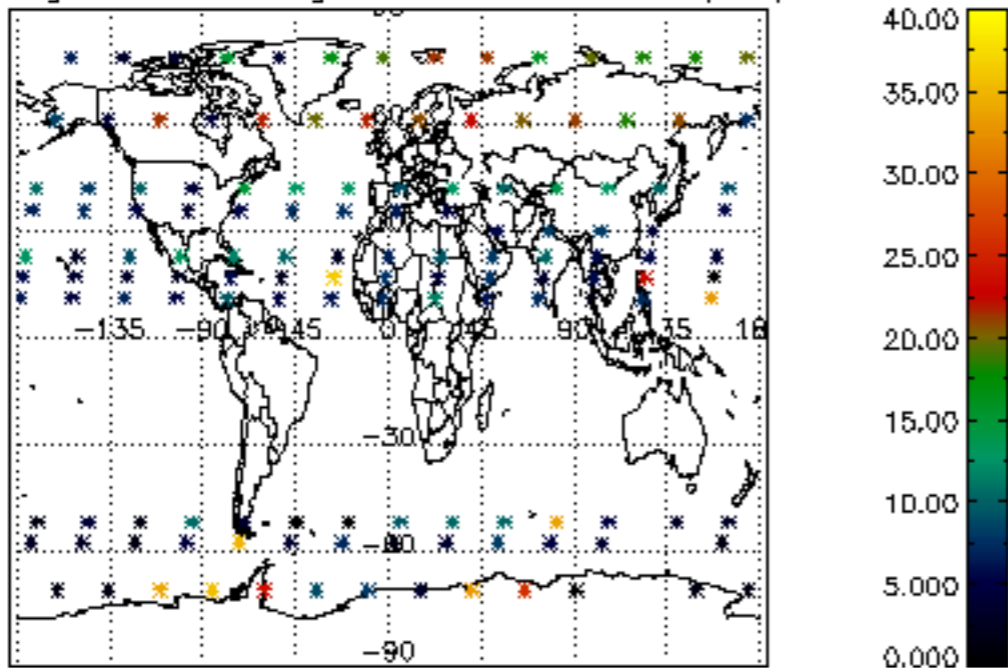
Percentage of cosmic ray hits per profile



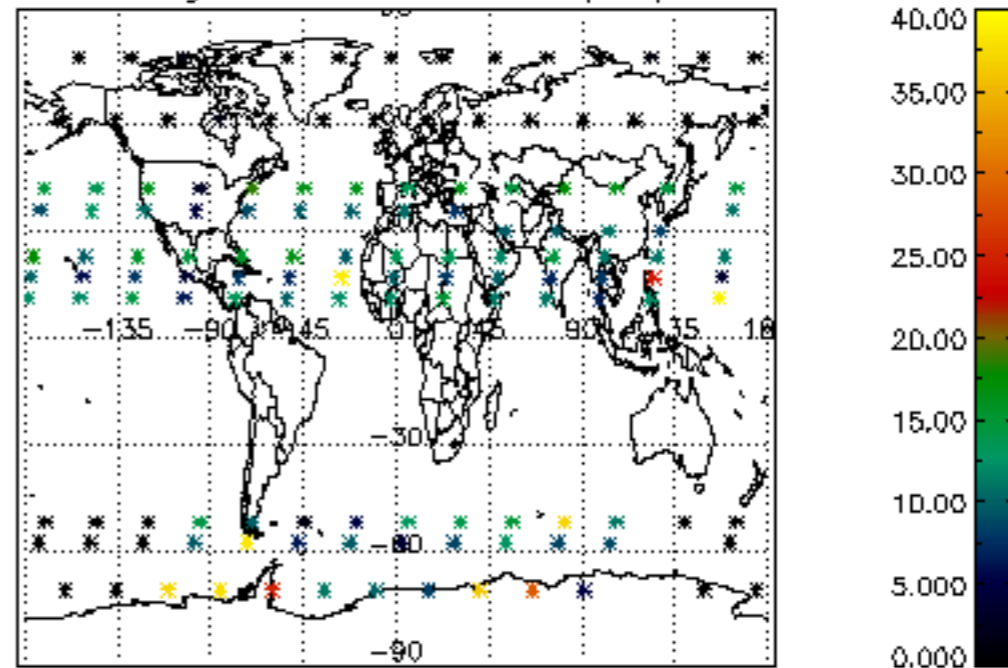
Percentage of datation errors per profile

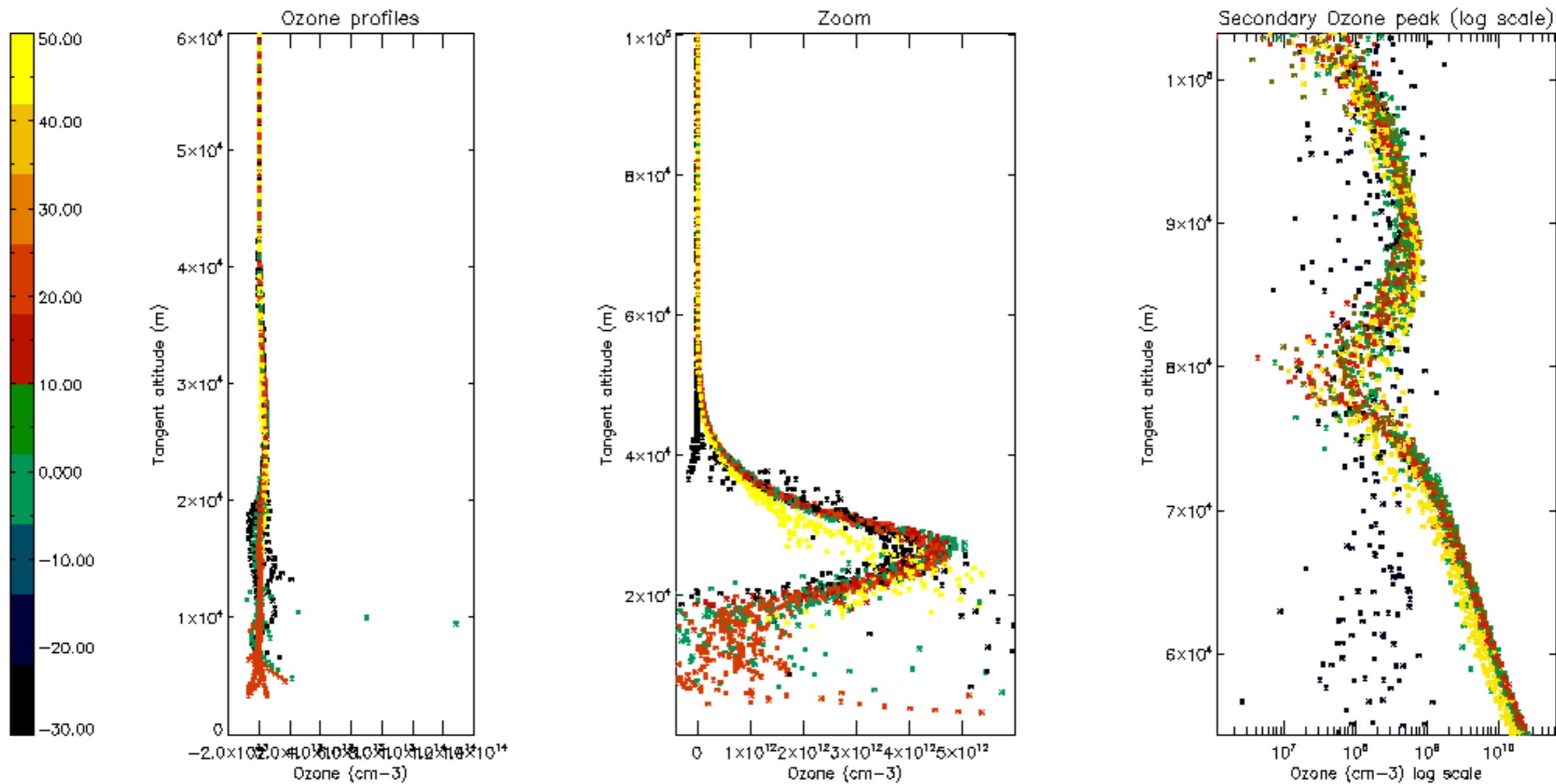


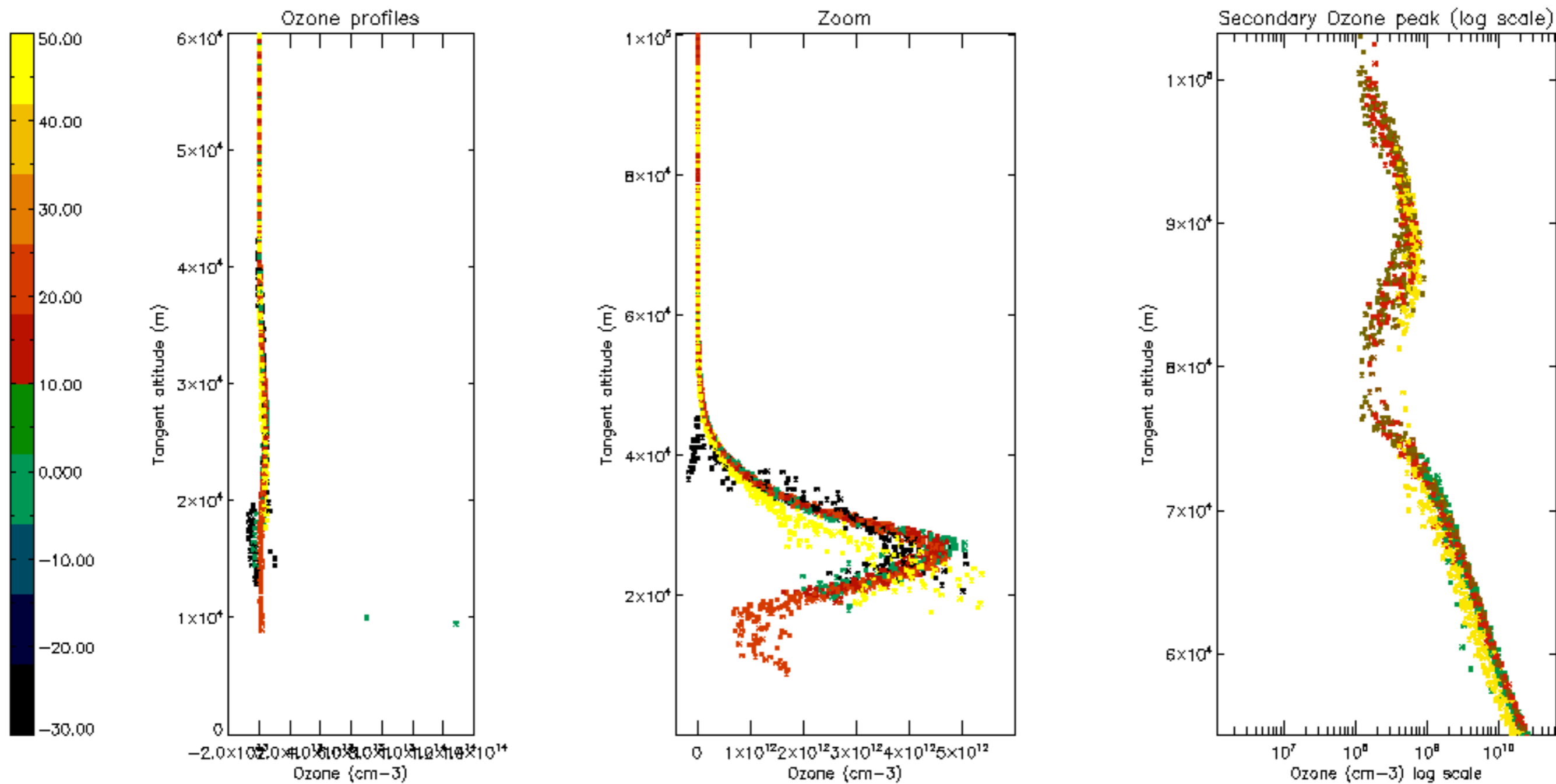
Percentage of star falling outside central band per profile

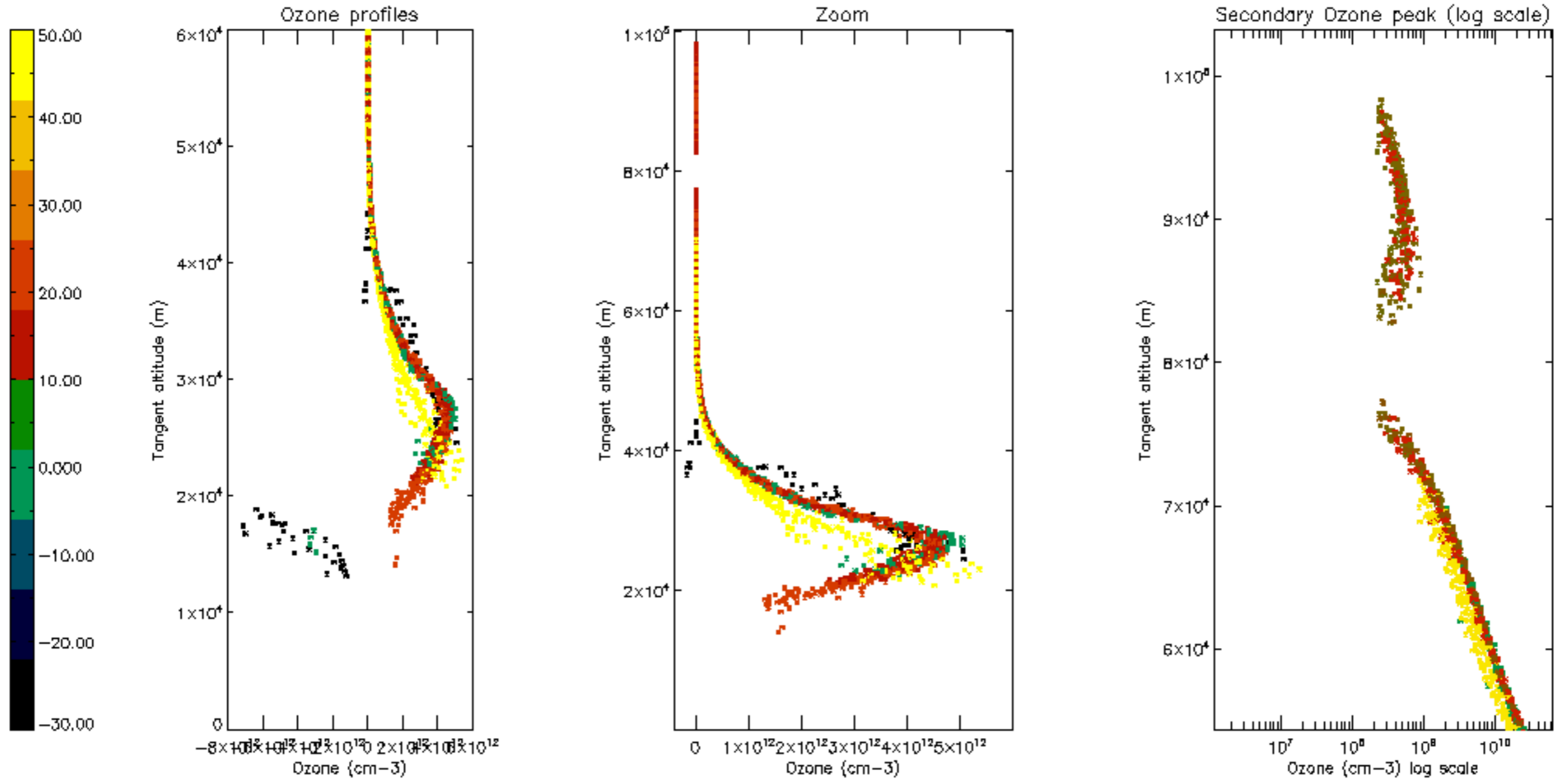


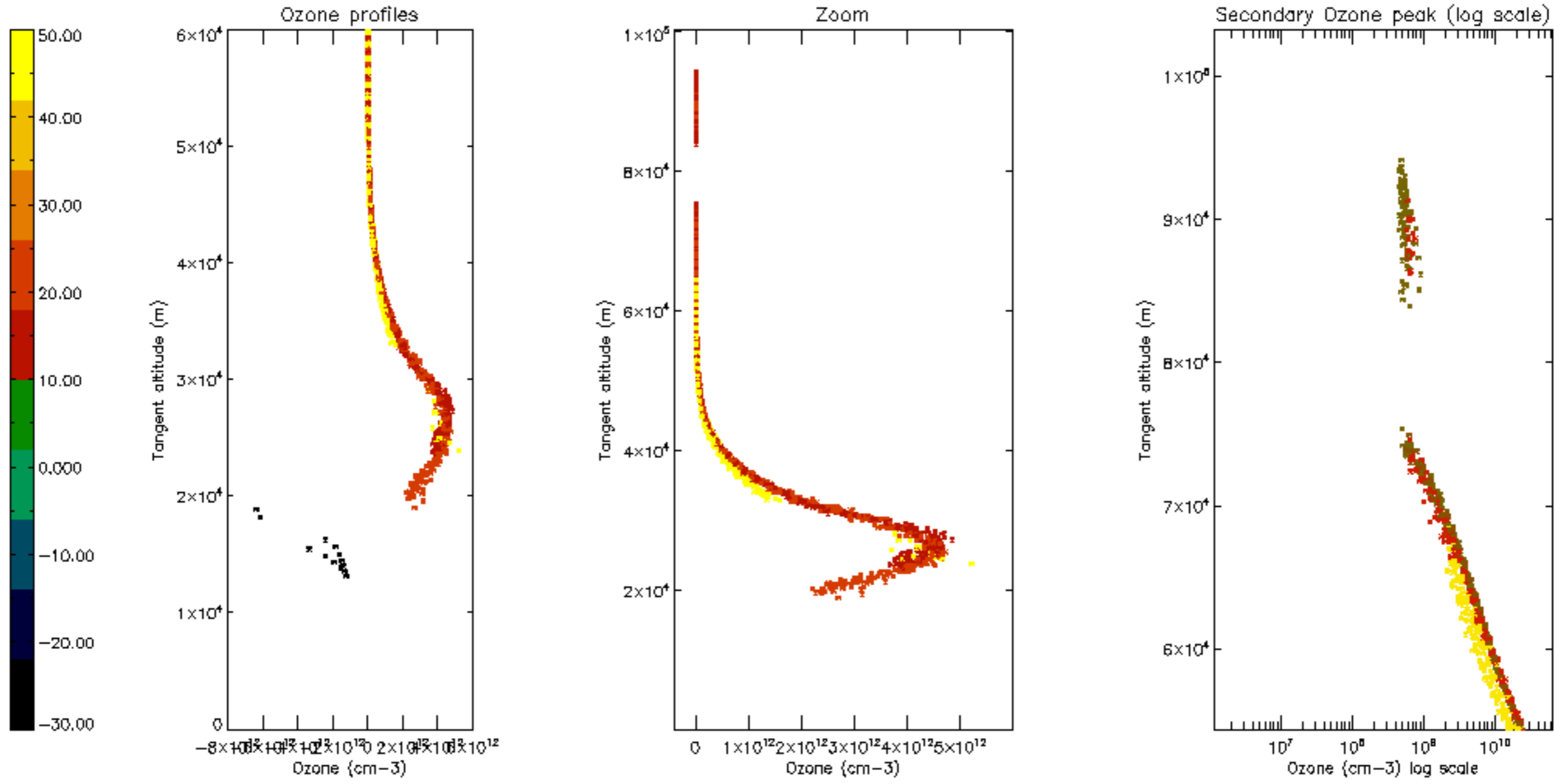
Percentage of saturation errors per profile

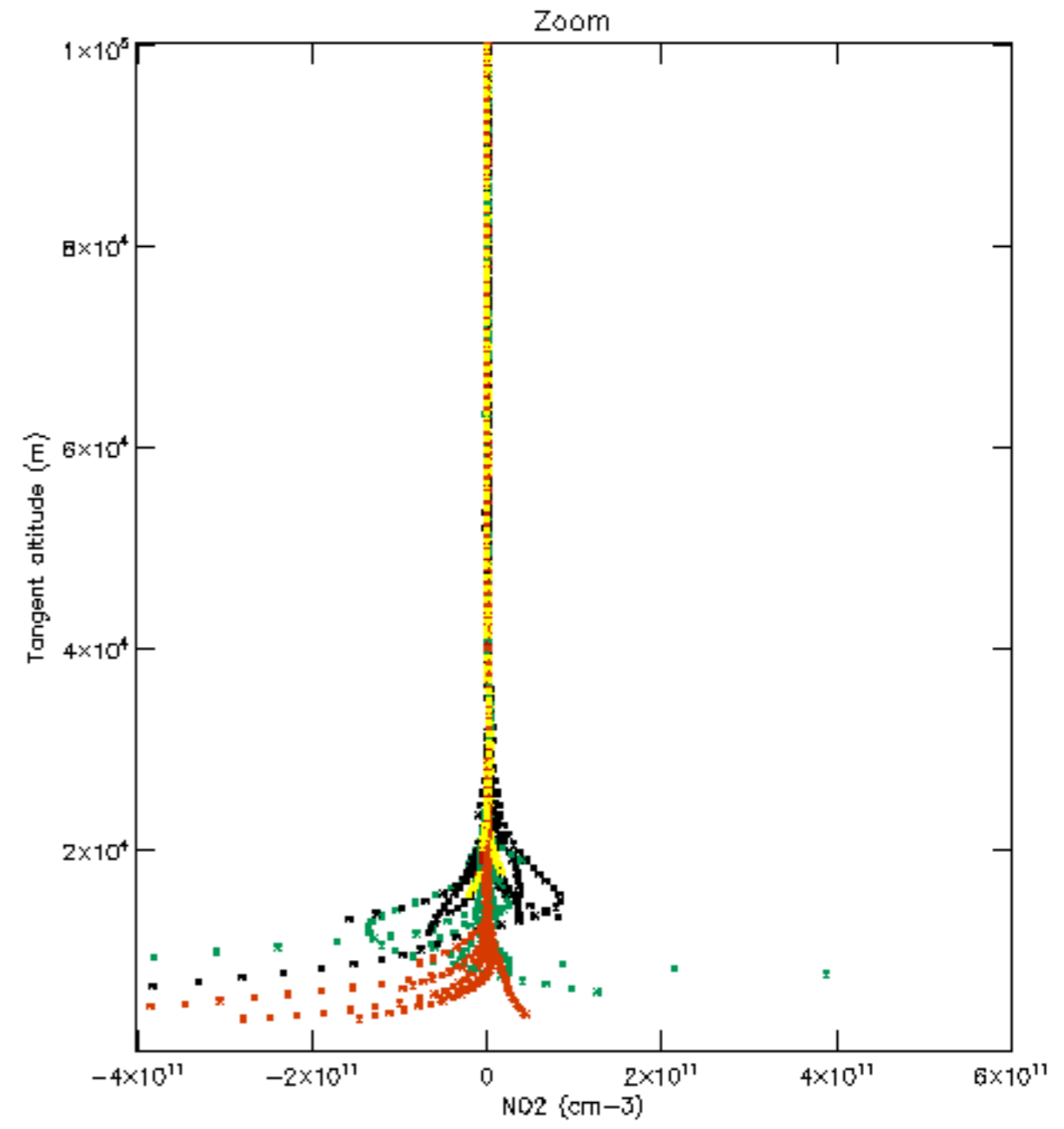
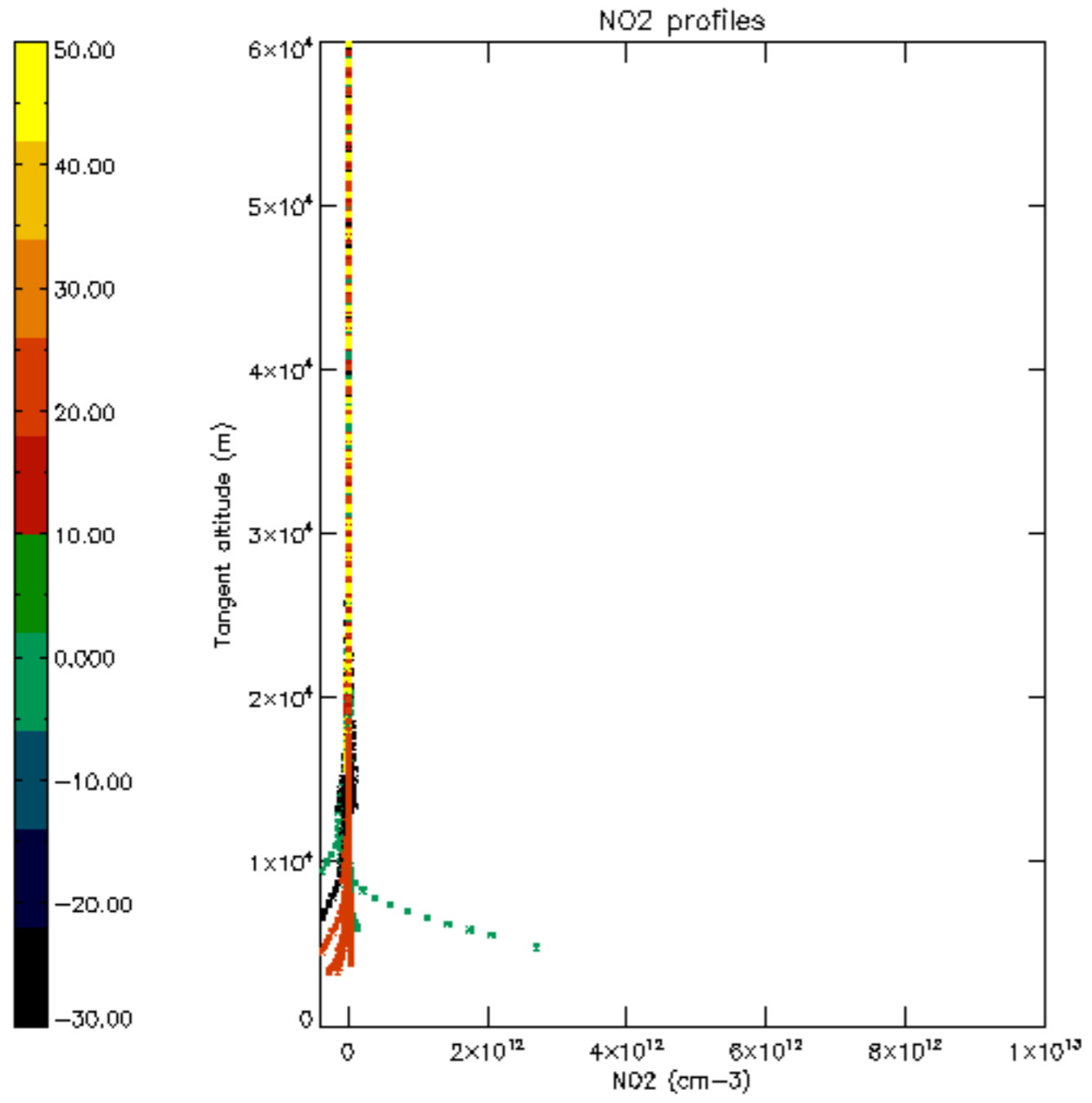


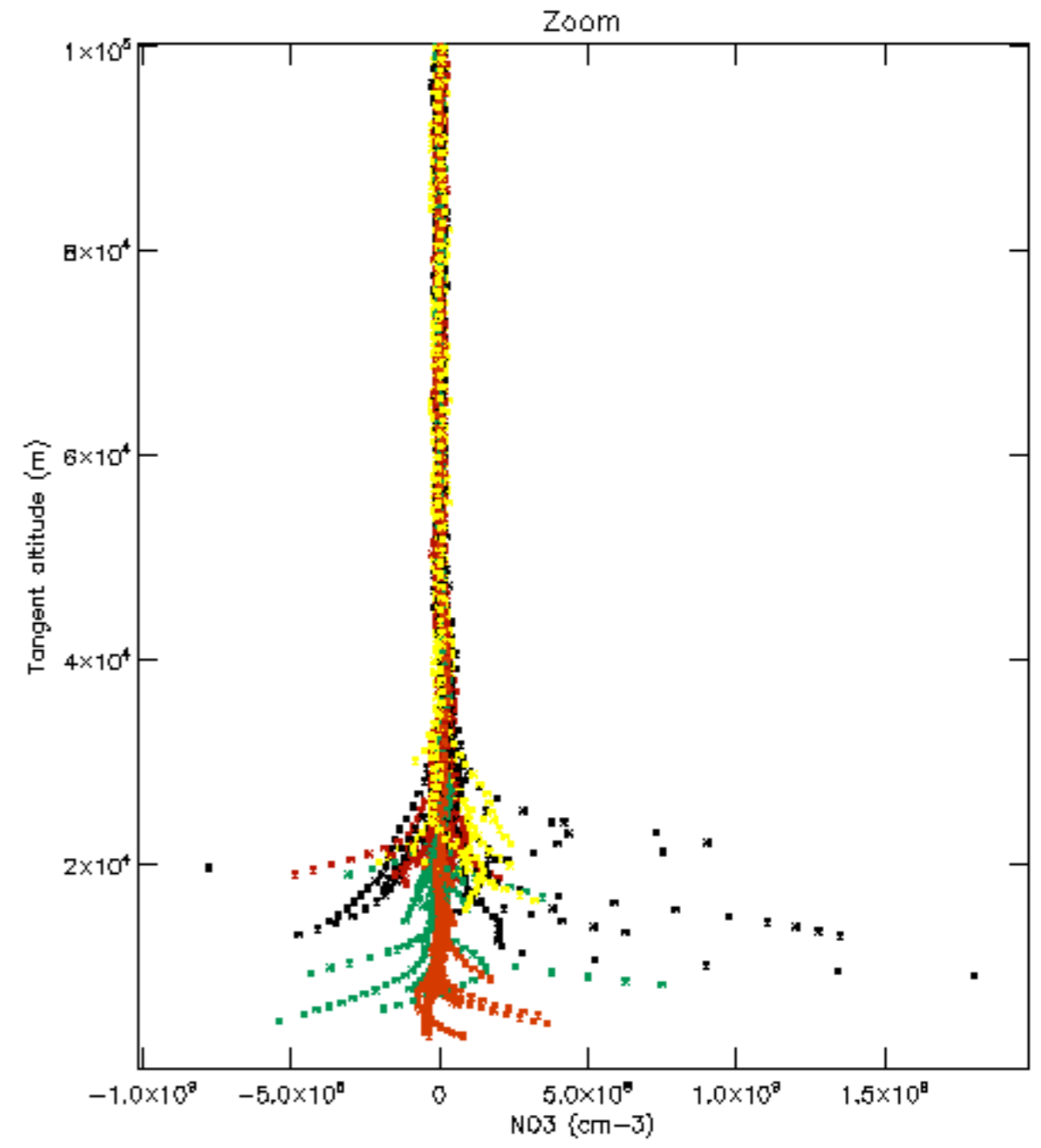
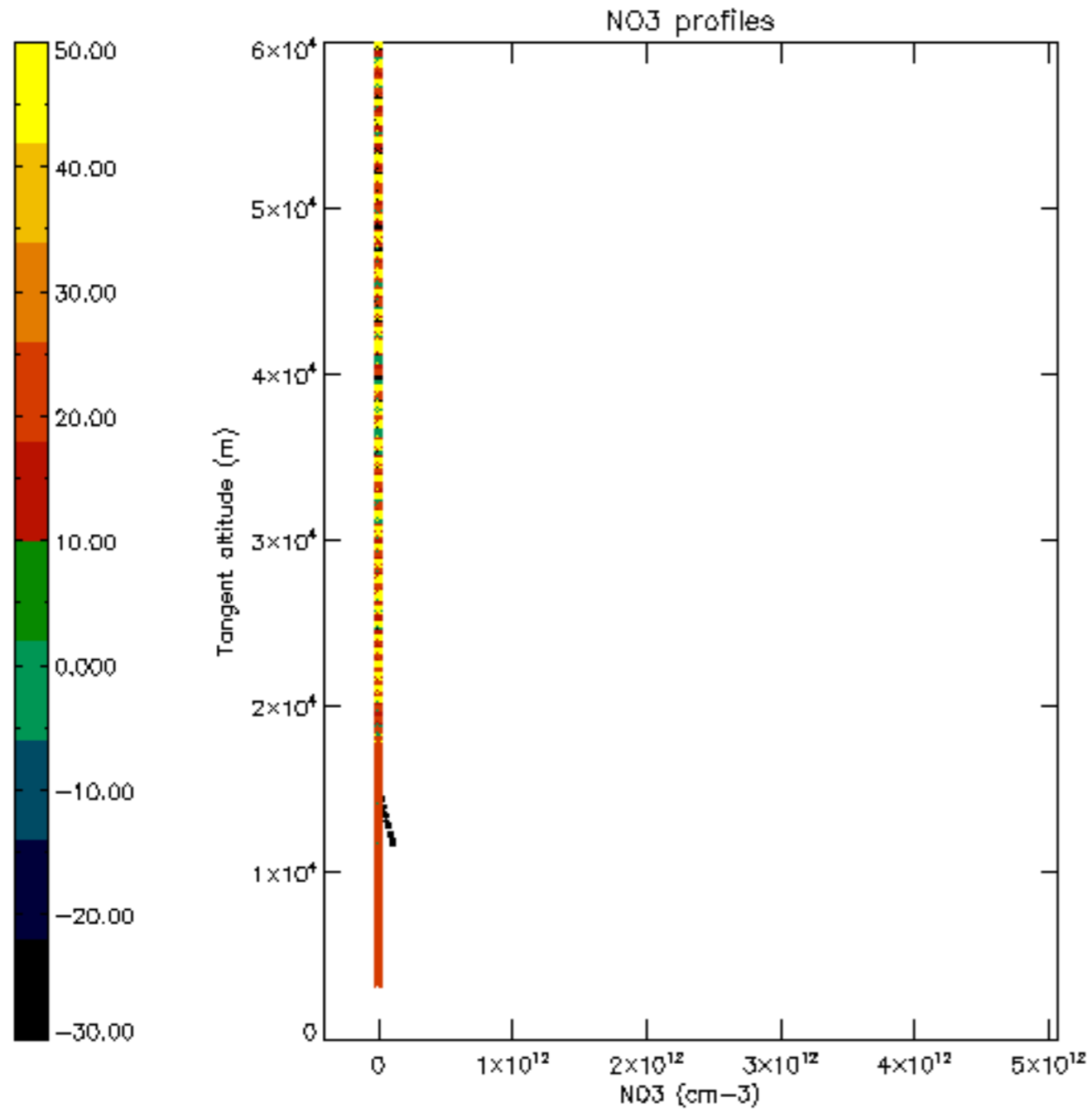


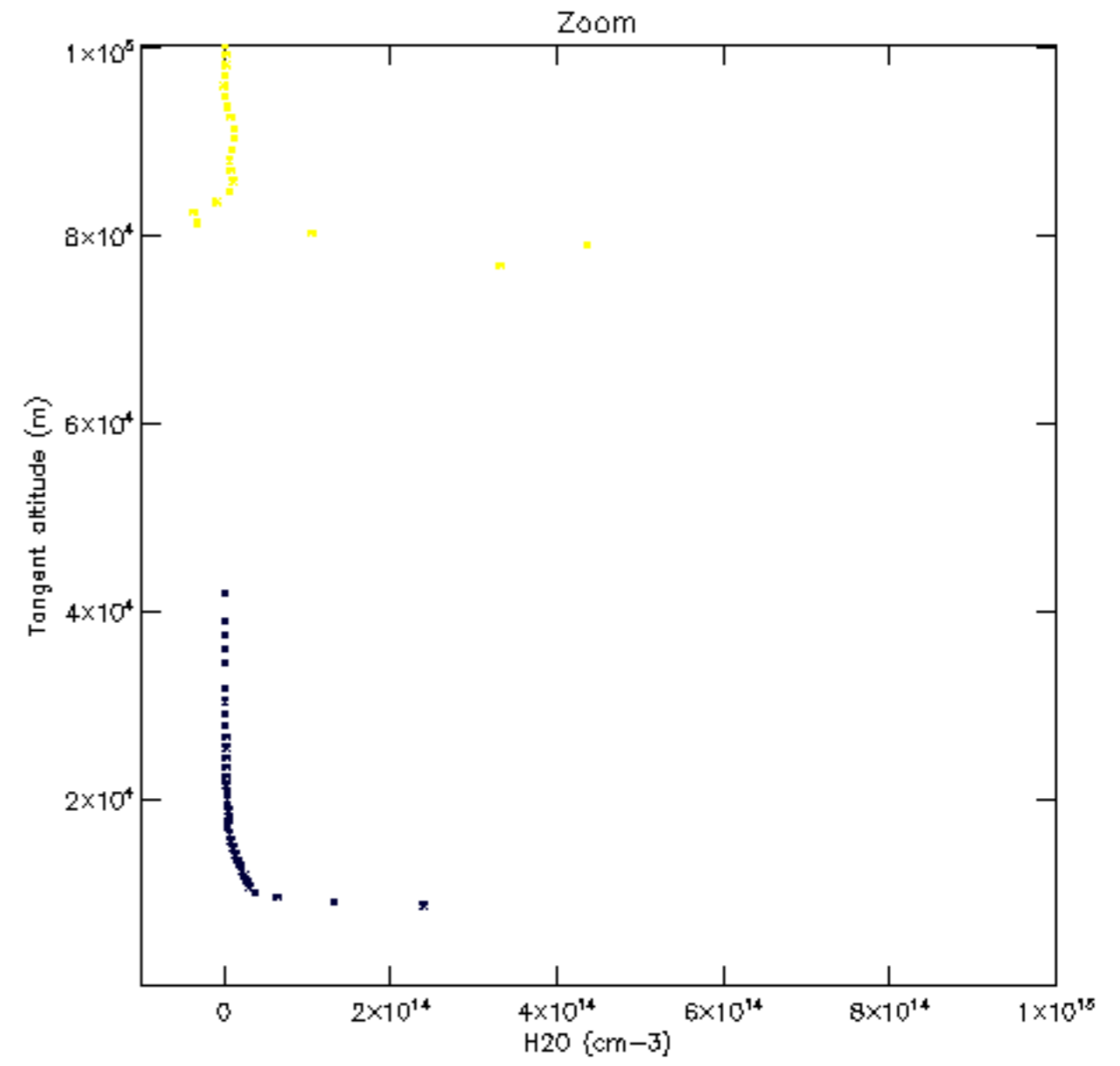
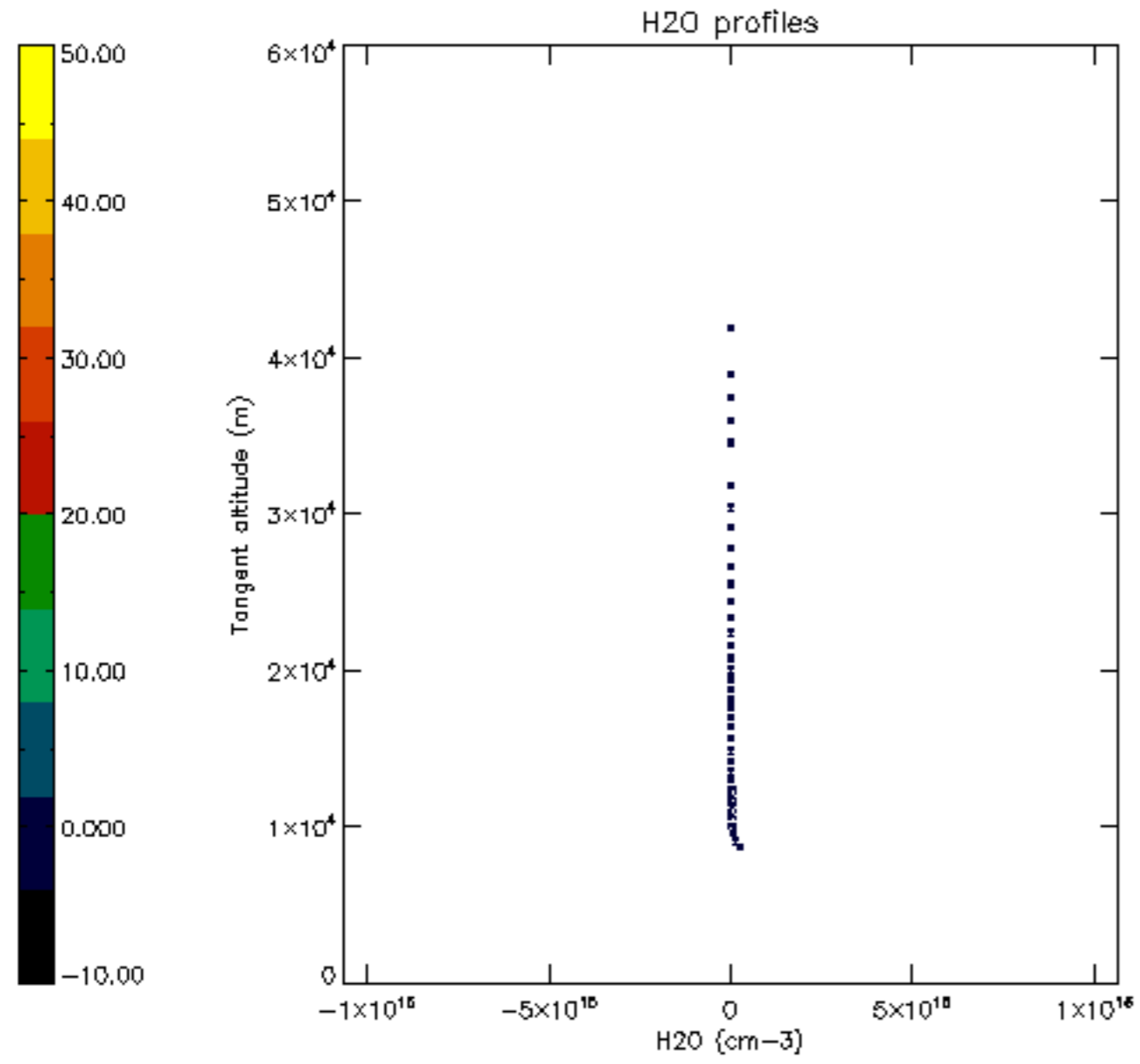


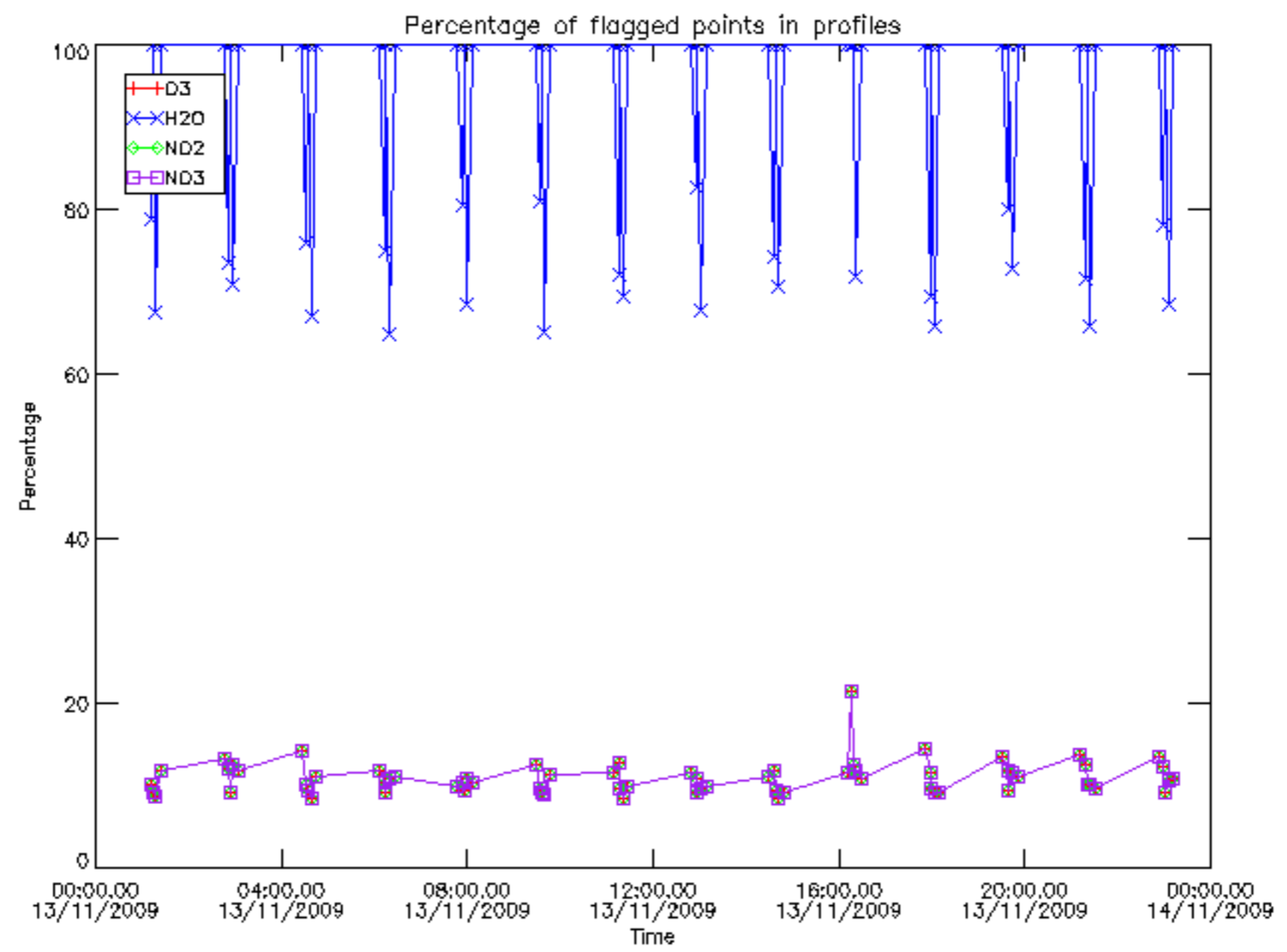




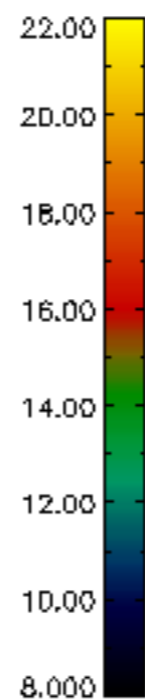
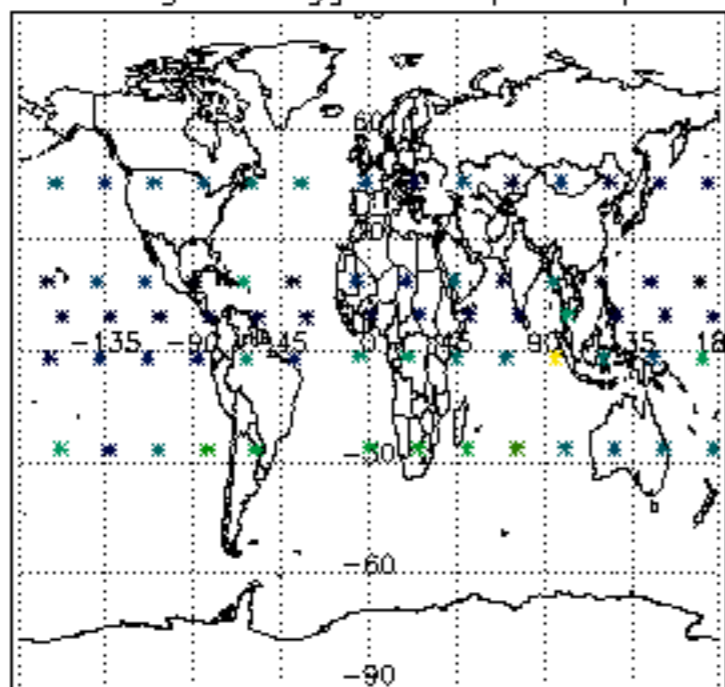




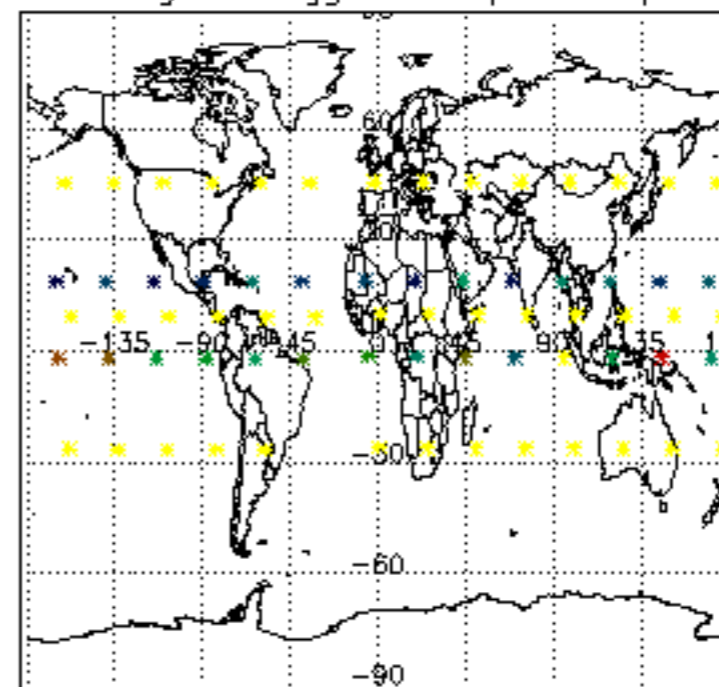




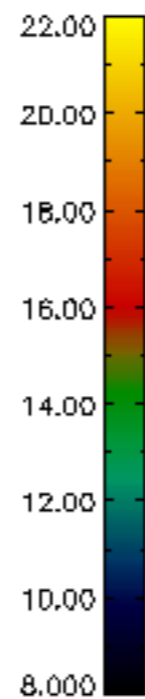
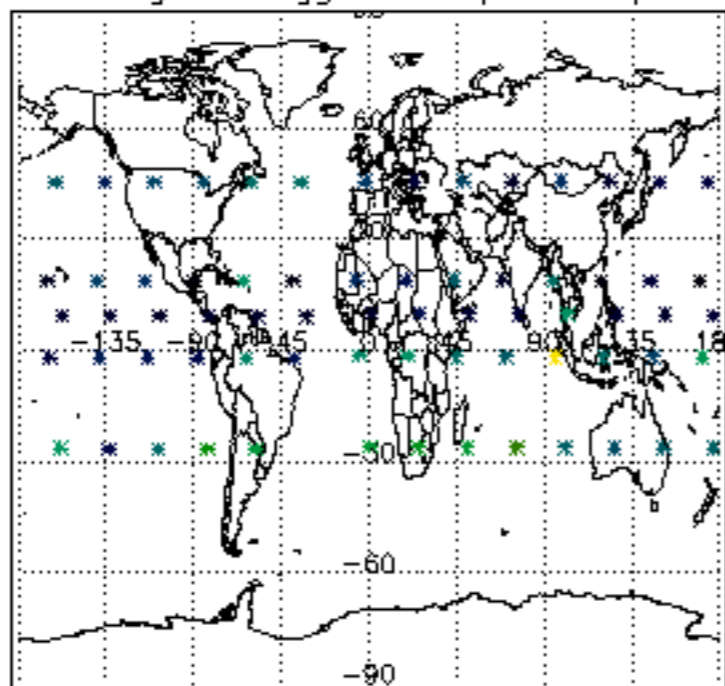
Percentage of flagged data per D3 profile



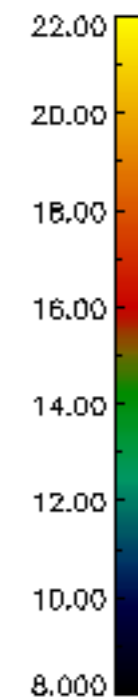
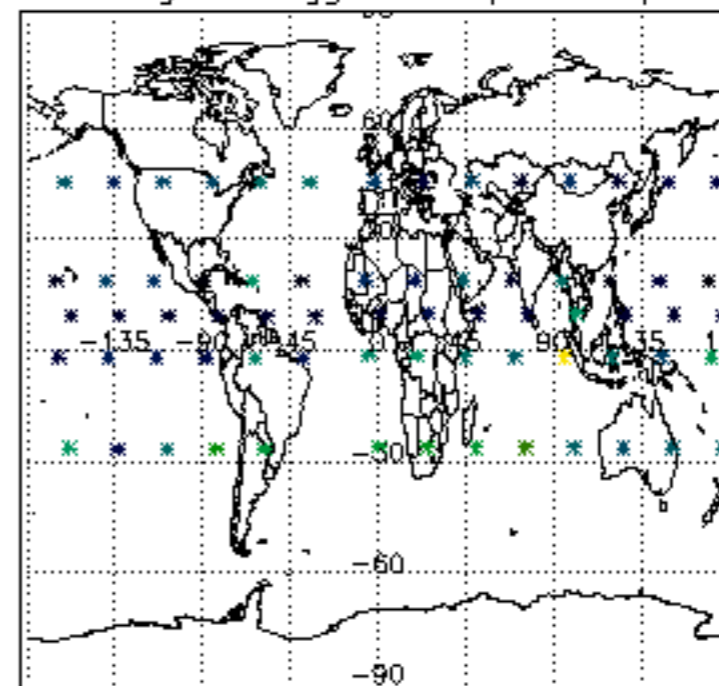
Percentage of flagged data per H2O profile

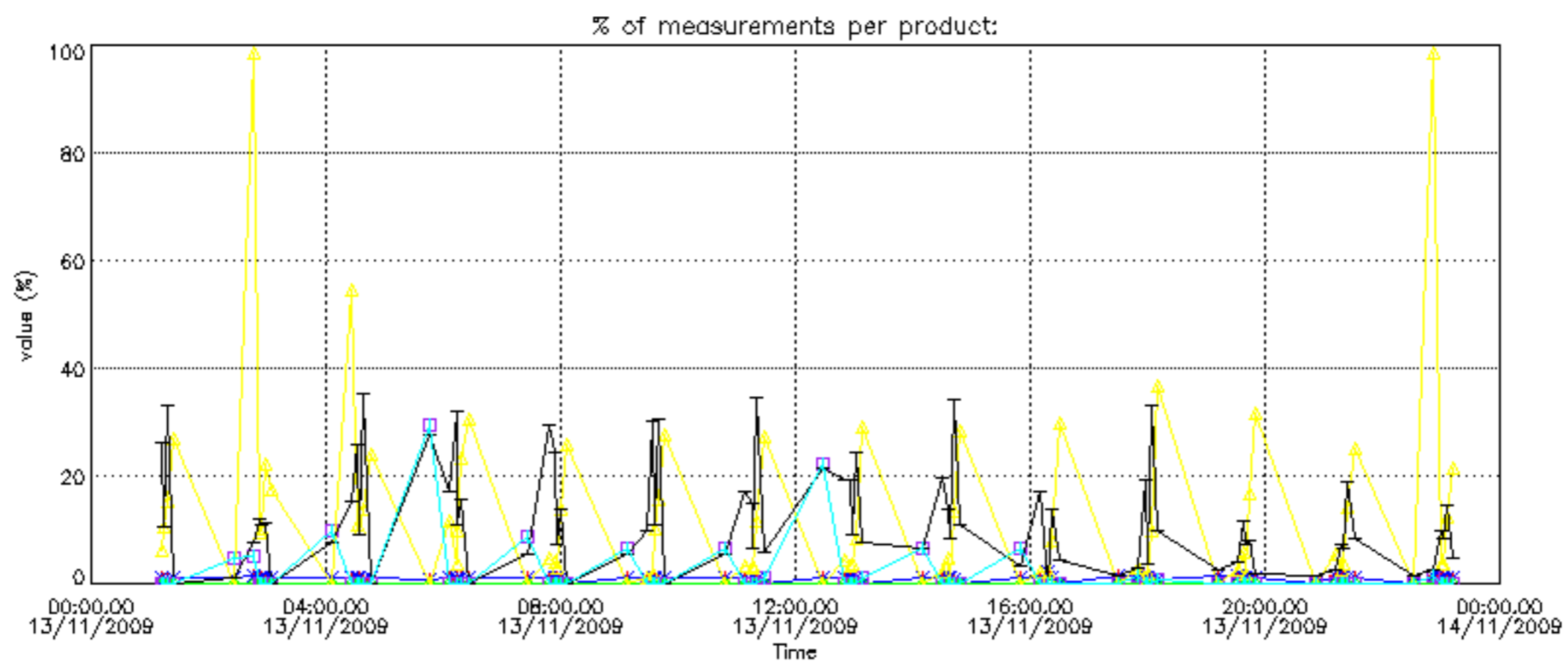


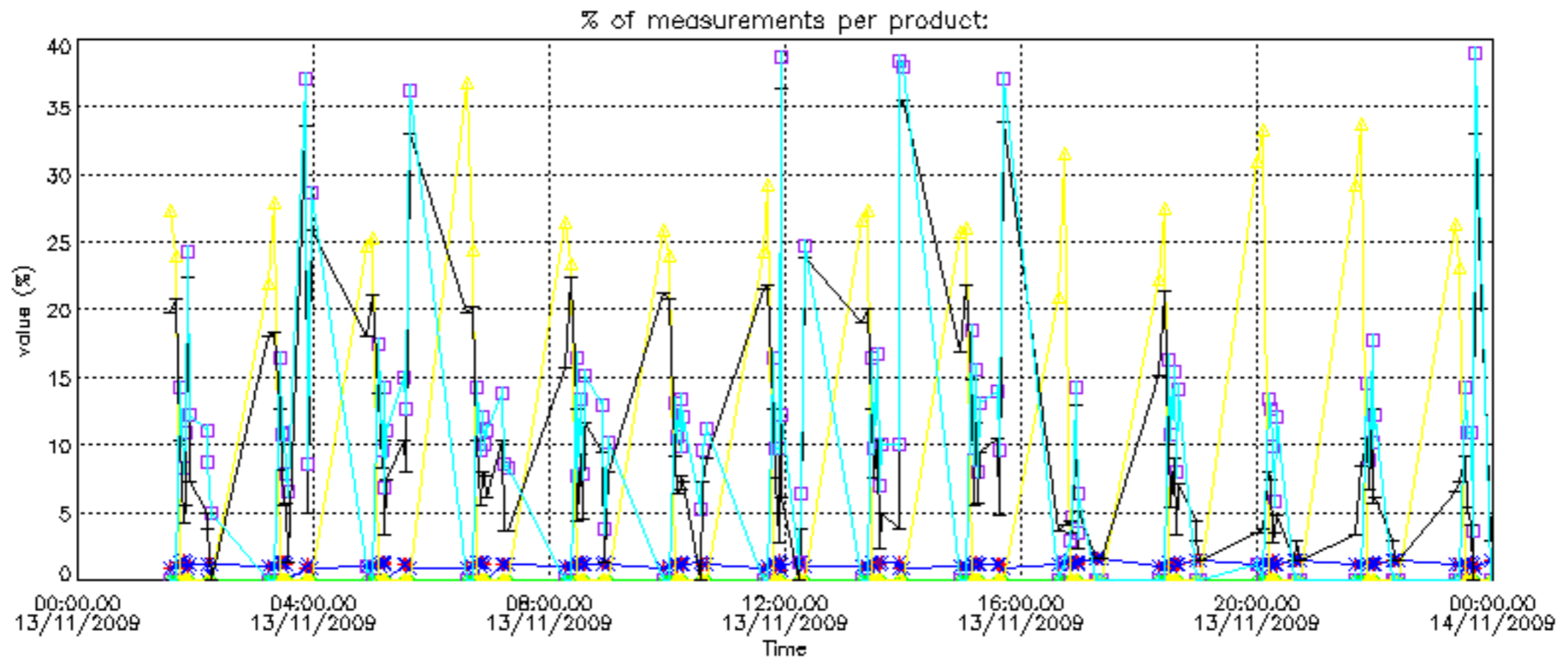
Percentage of flagged data per NO2 profile



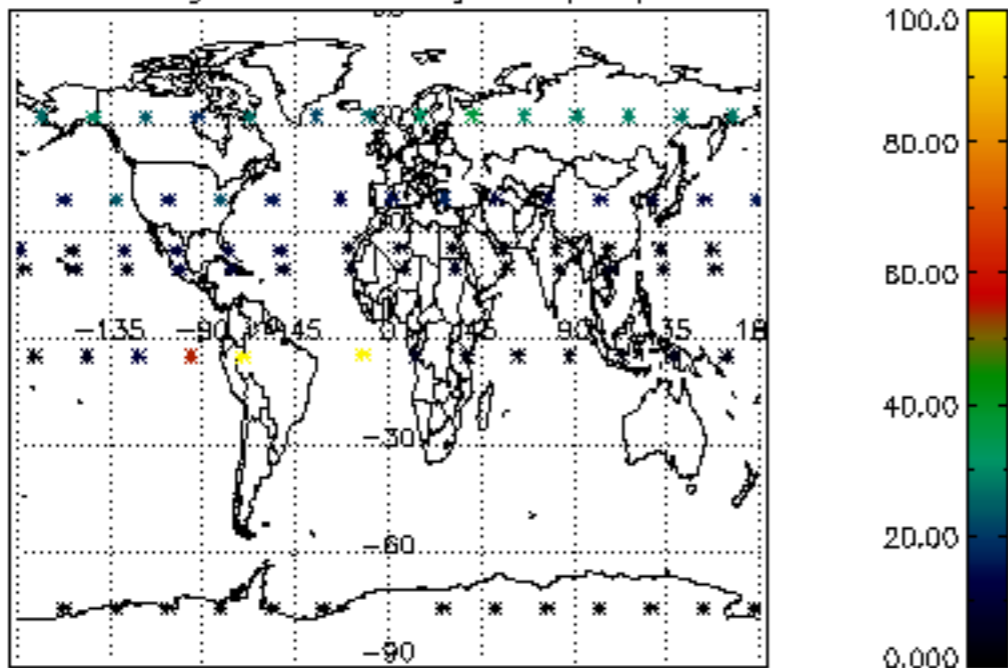
Percentage of flagged data per NO3 profile



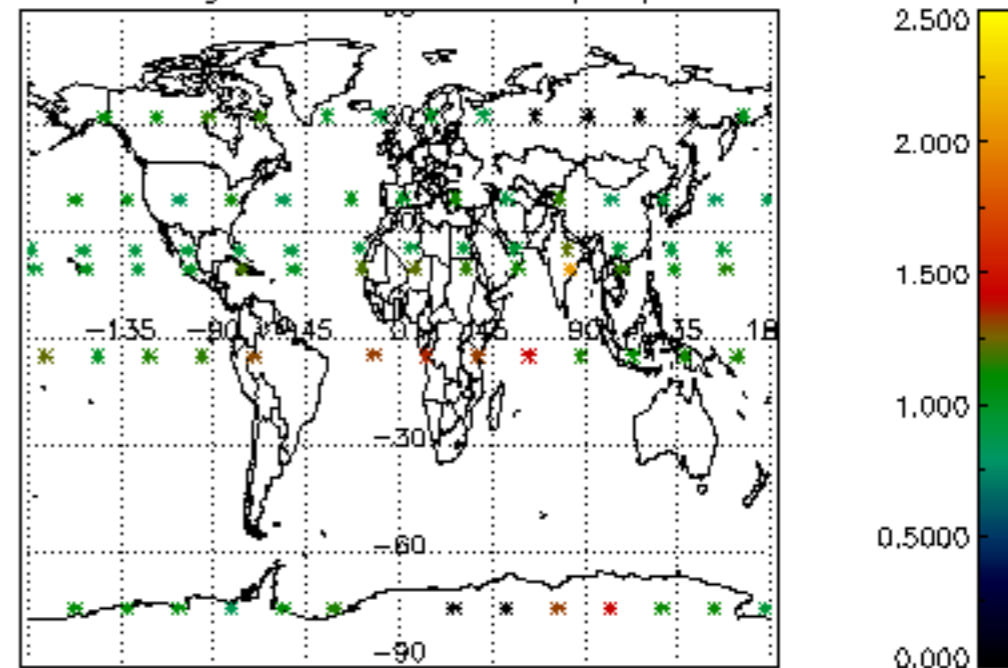




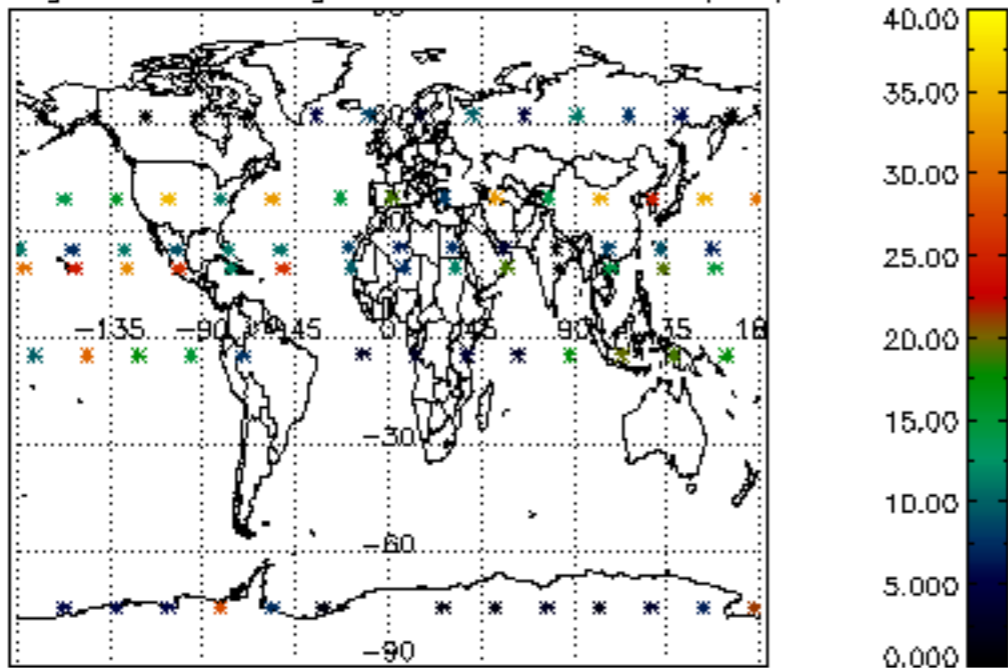
Percentage of cosmic ray hits per profile



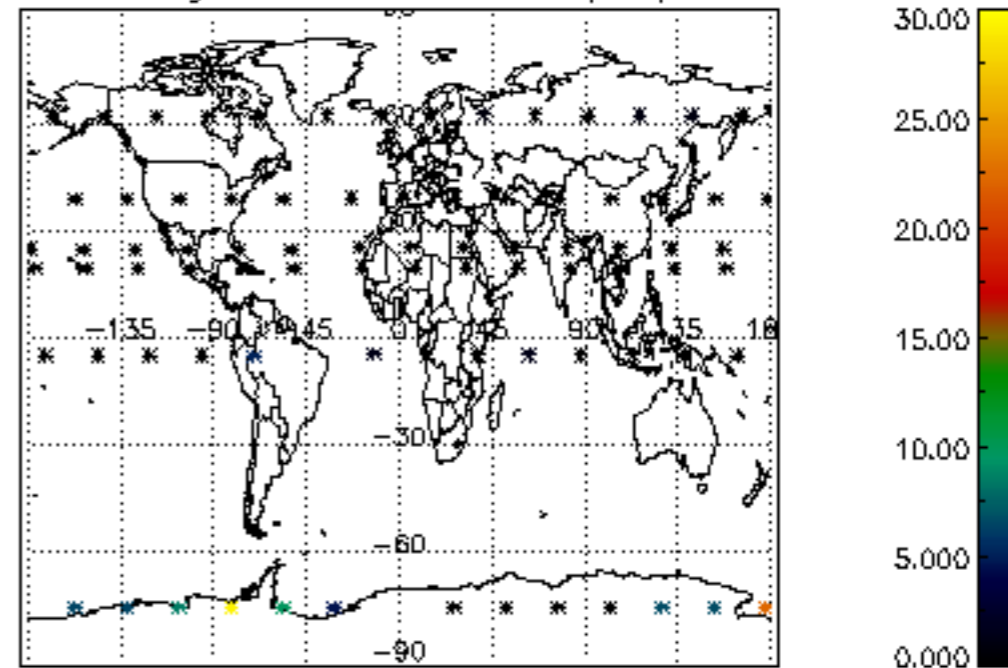
Percentage of datation errors per profile



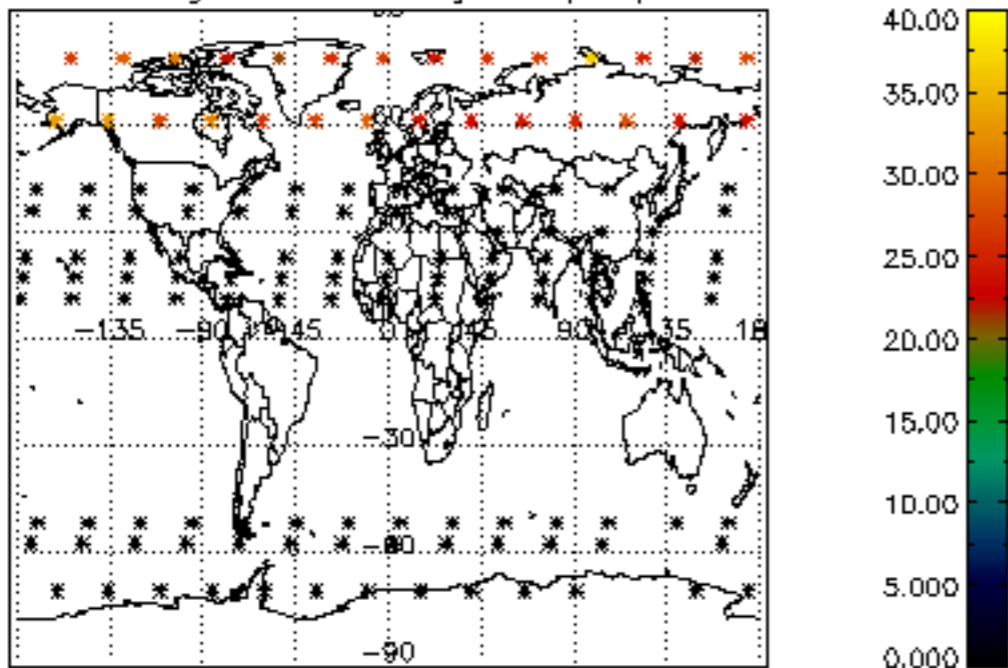
Percentage of star falling outside central band per profile



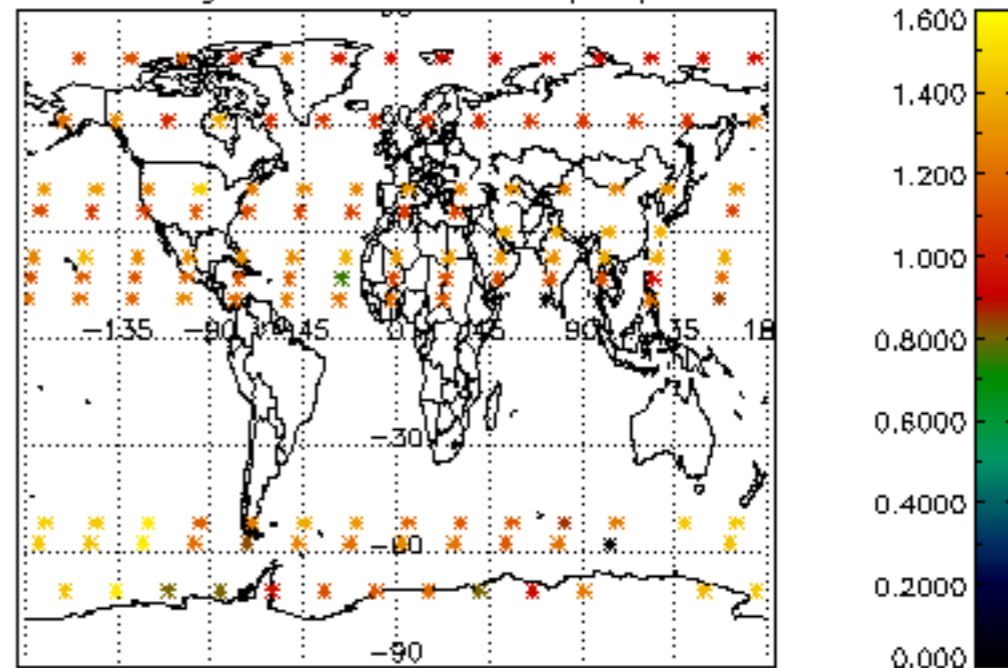
Percentage of saturation errors per profile



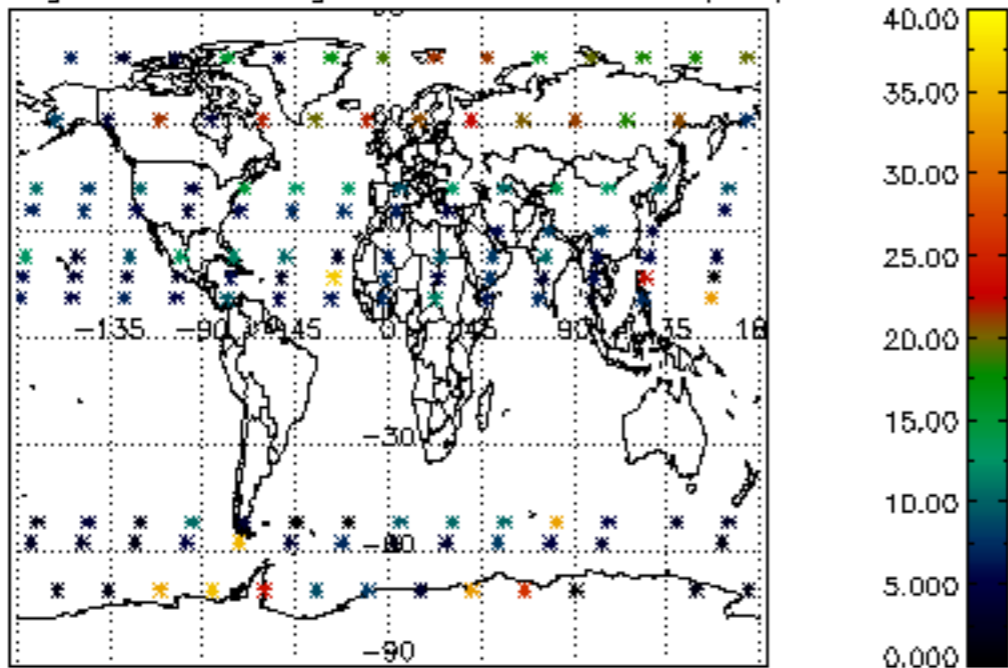
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

