

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	29APR2013 16:28:56
Data source version	GOMOS/6.01
Start time of products	03-12-2010 (03DEC2010 00:00:00)
Stop time of products	04-12-2010 (04DEC2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	338
Nb of prods with errors	0

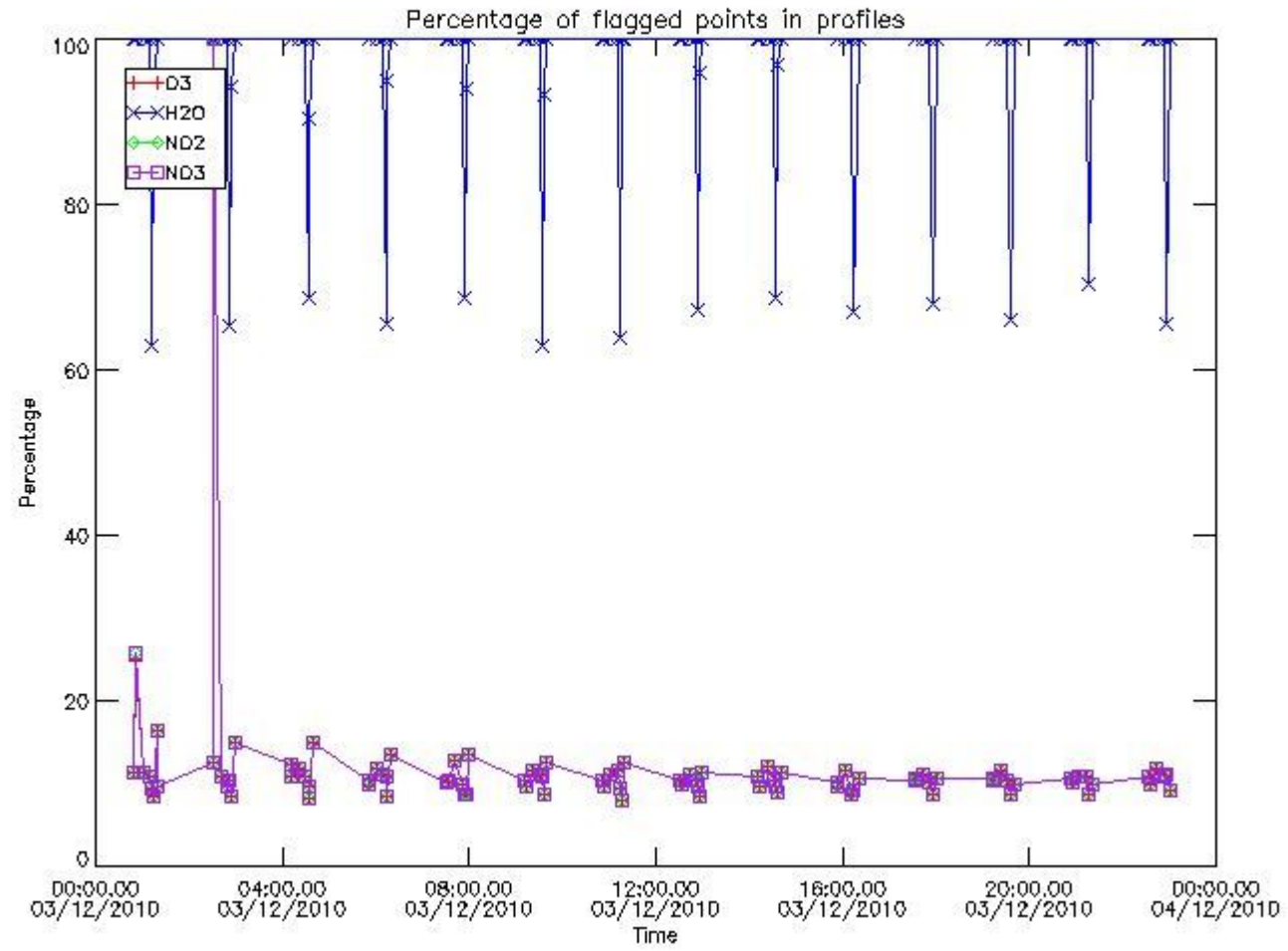
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20101203_000204_000000373097_00088_45792_9208.N1	03-DEC-2010 00:02:04	Bright	37.000	149	45Eps Per	2.8880	30000.	74	45792	No
2	GOM_NL__2PRFIN20101203_000407_000000353097_00088_45792_9209.N1	03-DEC-2010 00:04:07	Bright	35.000	175	39Del Per	3.0100	19400.	70	45792	No
3	GOM_NL__2PRFIN20101203_000544_000000493097_00088_45792_9210.N1	03-DEC-2010 00:05:44	Bright	49.000	6	13Alp Aur	0.080000	3400.0	98	45792	No
4	GOM_NL__2PRFIN20101203_000724_000000513097_00088_45792_9211.N1	03-DEC-2010 00:07:24	Bright	50.500	42	34Bet Aur	1.9000	10200.	101	45792	No
5	GOM_NL__2PRFIN20101203_002201_000000463097_00088_45792_9212.N1	03-DEC-2010 00:22:01	Bright	46.000	36	50Alp UMa	1.8000	6300.0	92	45792	No
6	GOM_NL__2PRFIN20101203_002335_000000483097_00088_45792_9213.N1	03-DEC-2010 00:23:35	Bright	47.500	82	48Bet UMa	2.3650	10600.	95	45792	No
7	GOM_NL__2PRFIN20101203_002521_000000403097_00088_45792_9214.N1	03-DEC-2010 00:25:21	Bright	39.500	32	77Eps UMa	1.7630	11000.	79	45792	No
8	GOM_NL__2PRFIN20101203_003057_000000403097_00088_45792_9215.N1	03-DEC-2010 00:30:57	Bright	40.000	152	12Alp2CVn	2.8900	11000.	80	45792	No
9	GOM_NL__2PRFIN20101203_003937_000000433097_00088_45792_9216.N1	03-DEC-2010 00:39:37	Bright	42.500	138	47Eps Vir	2.8280	4700.0	85	45792	No
10	GOM_NL__2PRFIN20101203_004402_000000463097_00088_45792_9217.N1	03-DEC-2010 00:44:02	Bright	46.000	121	29Gam Vir	2.7400	7200.0	92	45792	No
11	GOM_NL__2PRFIN20101203_004946_000000503097_00088_45792_9218.N1	03-DEC-2010 00:49:46	Dark	49.500	100	4Gam Crv	2.5800	13100.	99	45792	No
12	GOM_NL__2PRFIN20101203_005122_000000533097_00088_45792_9219.N1	03-DEC-2010 00:51:22	Dark	53.000	171	2Eps Crv	3.0010	4250.0	106	45792	No
13	GOM_NL__2PRFIN20101203_010048_000000453097_00089_45793_9206.N1	03-DEC-2010 01:00:48	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	45793	No
14	GOM_NL__2PRFIN20101203_010925_000000483097_00089_45793_9207.N1	03-DEC-2010 01:09:25	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	45793	No
15	GOM_NL__2PRFIN20101203_011236_000000553097_00089_45793_9208.N1	03-DEC-2010 01:12:36	Dark	54.500	2	Alp Car	-0.73600	7000.0	109	45793	No
16	GOM_NL__2PRFIN20101203_011435_000000603097_00089_45793_9209.N1	03-DEC-2010 01:14:35	Dark	60.000	117	Pi Pup	2.7060	3800.0	120	45793	No
17	GOM_NL__2PRFIN20101203_011818_000000313097_00089_45793_9210.N1	03-DEC-2010 01:18:18	Dark	31.000	23	21Eps CMa	1.5020	26000.	62	45793	No
18	GOM_NL__2PRFIN20101203_011912_000000533097_00089_45793_9211.N1	03-DEC-2010 01:19:12	Dark	52.500	177	1Zet CMa	3.0220	26000.	105	45793	No
19	GOM_NL__2PRFIN20101203_012431_000000543097_00089_45793_9212.N1	03-DEC-2010 01:24:31	Straylight	54.000	101	11Alp Lep	2.5820	7000.0	108	45793	No
20	GOM_NL__2PRFIN20101203_012801_000000583097_00089_45793_9213.N1	03-DEC-2010 01:28:01	Straylight	57.500	7	19Bet Ori	0.10000	14000.	115	45793	No
21	GOM_NL__2PRFIN20101203_013052_000000473097_00089_45793_9214.N1	03-DEC-2010 01:30:52	Twilight_and_stray	47.000	30	46Eps Ori	1.6940	30000.	94	45793	No
22	GOM_NL__2PRFIN20101203_013331_000000613097_00089_45793_9215.N1	03-DEC-2010 01:33:31	Twilight_and_stray	60.500	27	24Gam Ori	1.6360	26000.	121	45793	No
23	GOM_NL__2PRFIN20101203_013553_000000613097_00089_45793_9216.N1	03-DEC-2010 01:35:53	Bright	61.000	13	87Alp Tau	0.86700	3800.0	122	45793	No
24	GOM_NL__2PRFIN20101203_013734_000000393097_00089_45793_9217.N1	03-DEC-2010 01:37:34	Bright	39.000	146	25Eta Tau	2.8730	15200.	78	45793	No
25	GOM_NL__2PRFIN20101203_013954_000000393097_00089_45793_9218.N1	03-DEC-2010 01:39:54	Bright	39.000	150	44Zet Per	2.8900	28000.	78	45793	No
26	GOM_NL__2PRFIN20101203_014218_000000383097_00089_45793_9219.N1	03-DEC-2010 01:42:18	Bright	37.500	149	45Eps Per	2.8880	30000.	75	45793	No
27	GOM_NL__2PRFIN20101203_014421_000000363097_00089_45793_9220.N1	03-DEC-2010 01:44:21	Bright	36.000	175	39Del Per	3.0100	19400.	72	45793	No
28	GOM_NL__2PRFIN20101203_014557_000000513097_00089_45793_9221.N1	03-DEC-2010 01:45:57	Bright	50.500	6	13Alp Aur	0.080000	3400.0	101	45793	No
29	GOM_NL__2PRFIN20101203_014737_000000513097_00089_45793_9222.N1	03-DEC-2010 01:47:37	Bright	50.500	42	34Bet Aur	1.9000	10200.	101	45793	No
30	GOM_NL__2PRFIN20101203_020214_000000413097_00089_45793_9223.N1	03-DEC-2010 02:02:14	Bright	41.000	36	50Alp UMa	1.8000	6300.0	82	45793	No
31	GOM_NL__2PRFIN20101203_020349_000000463097_00089_45793_9224.N1	03-DEC-2010 02:03:49	Bright	45.500	82	48Bet UMa	2.3650	10600.	91	45793	No
32	GOM_NL__2PRFIN20101203_020535_000000383097_00089_45793_9225.N1	03-DEC-2010 02:05:35	Bright	38.000	32	77Eps UMa	1.7630	11000.	76	45793	No
33	GOM_NL__2PRFIN20101203_021112_000000393097_00089_45793_9226.N1	03-DEC-2010 02:11:12	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	45793	No
34	GOM_NL__2PRFIN20101203_021951_000000433097_00089_45793_9227.N1	03-DEC-2010 02:19:51	Bright	43.000	138	47Eps Vir	2.8280	4700.0	86	45793	No
35	GOM_NL__2PRFIN20101203_022416_000000473097_00089_45793_9228.N1	03-DEC-2010 02:24:16	Bright	46.500	121	29Gam Vir	2.7400	7200.0	93	45793	No
36	GOM_NL__2PRFIN20101203_023001_000000493097_00089_45793_9229.N1	03-DEC-2010 02:30:01	Dark	49.000	100	4Gam Crv	2.5800	13100.	98	45793	No
37	GOM_NL__2PRFIN20101203_023137_000000493097_00089_45793_9230.N1	03-DEC-2010 02:31:37	Dark	48.500	171	2Eps Crv	3.0010	4250.0	97	45793	No
38	GOM_NL__2PRFIN20101203_024102_000000483097_00090_45794_9242.N1	03-DEC-2010 02:41:02	Dark	47.500	113	Mu Vel	2.6920	5000.0	95	45794	No
39	GOM_NL__2PRFIN20101203_024940_000000543097_00090_45794_9243.N1	03-DEC-2010 02:49:40	Dark	53.500	34	Gam2Vel	1.7930	23000.	107	45794	No
40	GOM_NL__2PRFIN20101203_025251_000000503097_00090_45794_9244.N1	03-DEC-2010 02:52:51	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	45794	No
41	GOM_NL__2PRFIN20101203_025450_000000603097_00090_45794_9245.N1	03-DEC-2010 02:54:50	Dark	60.000	117	Pi Pup	2.7060	3800.0	120	45794	No
42	GOM_NL__2PRFIN20101203_025832_000000343097_00090_45794_9246.N1	03-DEC-2010 02:58:32	Dark	34.000	23	21Eps CMa	1.5020	26000.	68	45794	No

3. Quality information per product

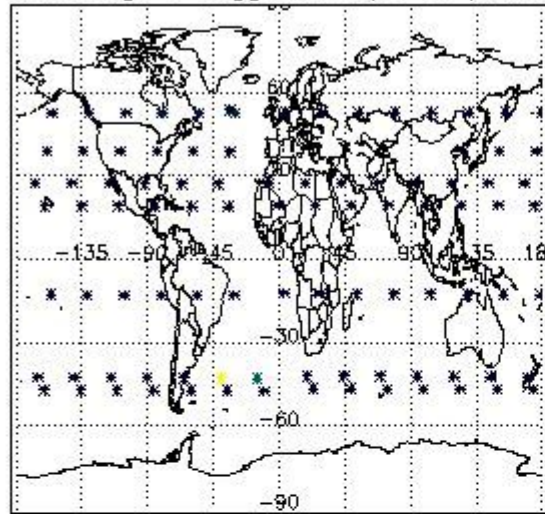
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

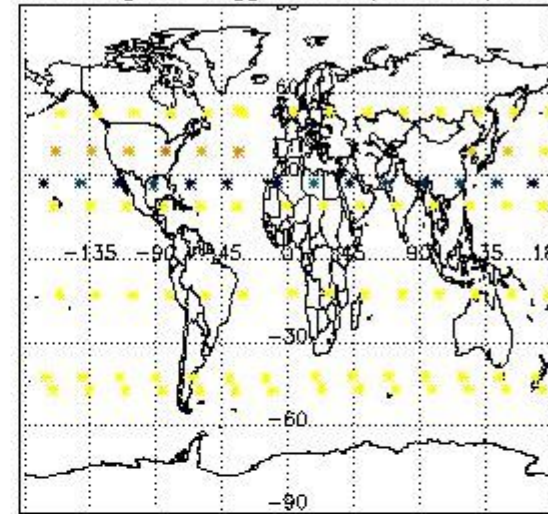


3.2 Plot quality information per product (world map)

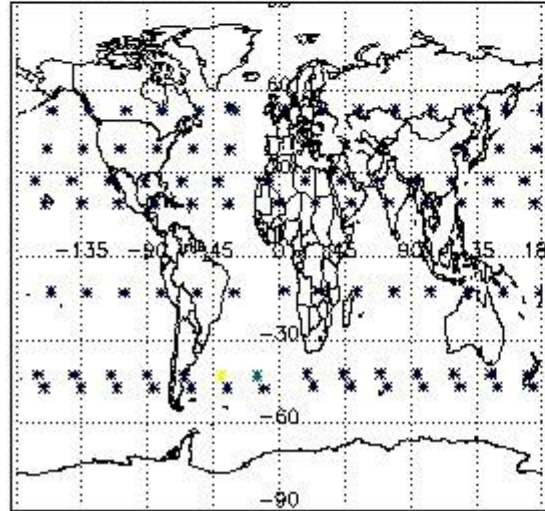
Percentage of flagged data per O3 profile



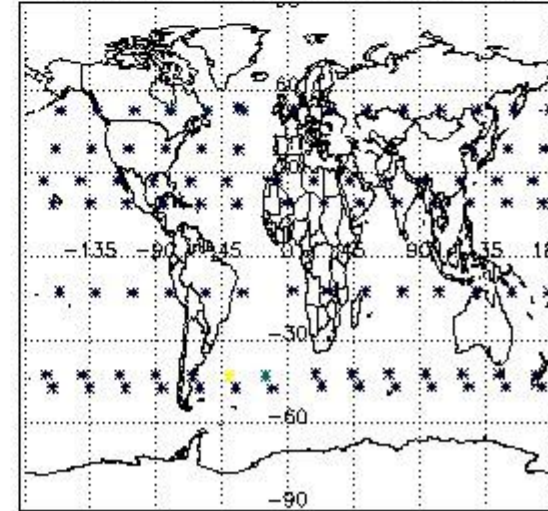
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

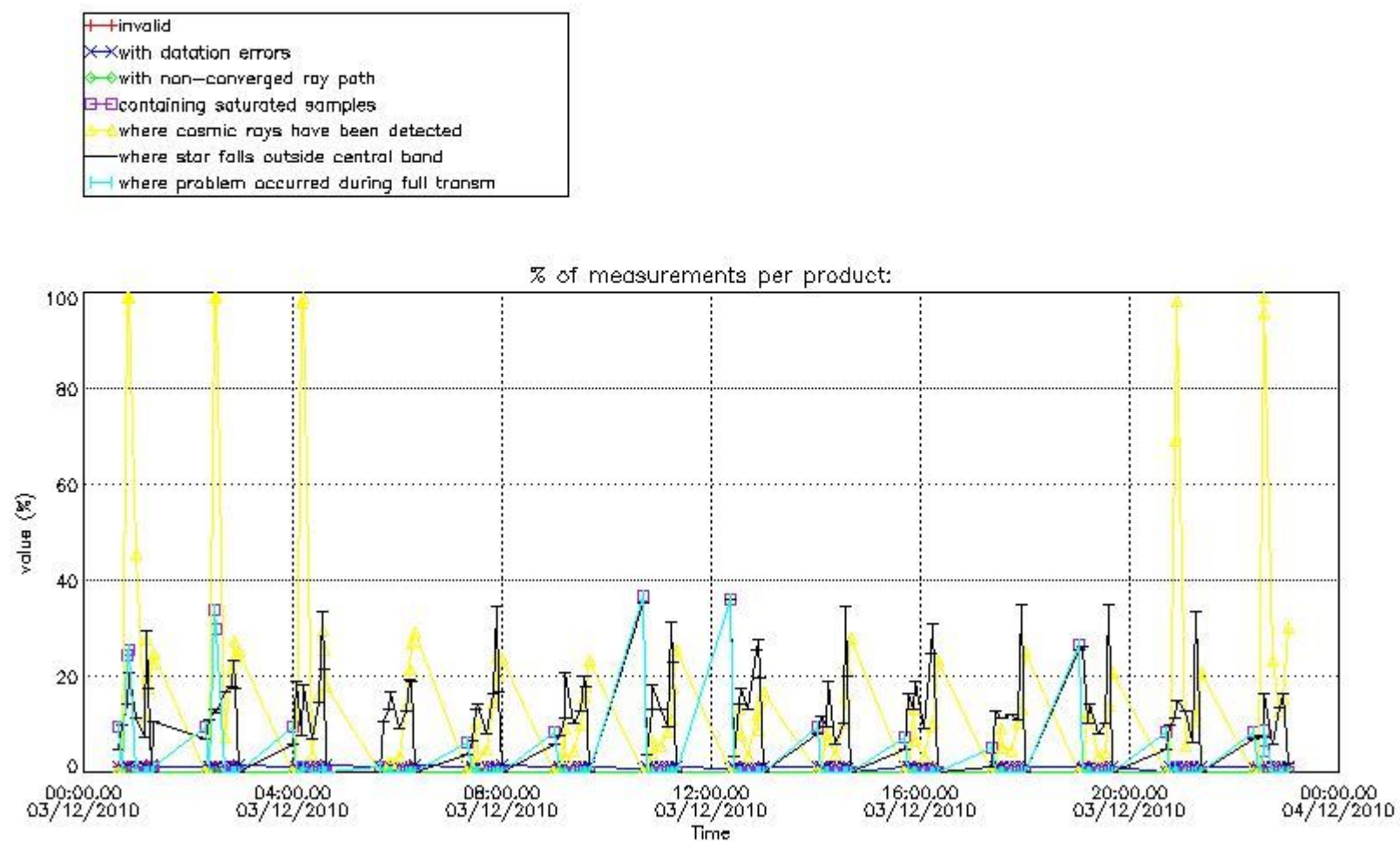


4. Level 1 quality information per product

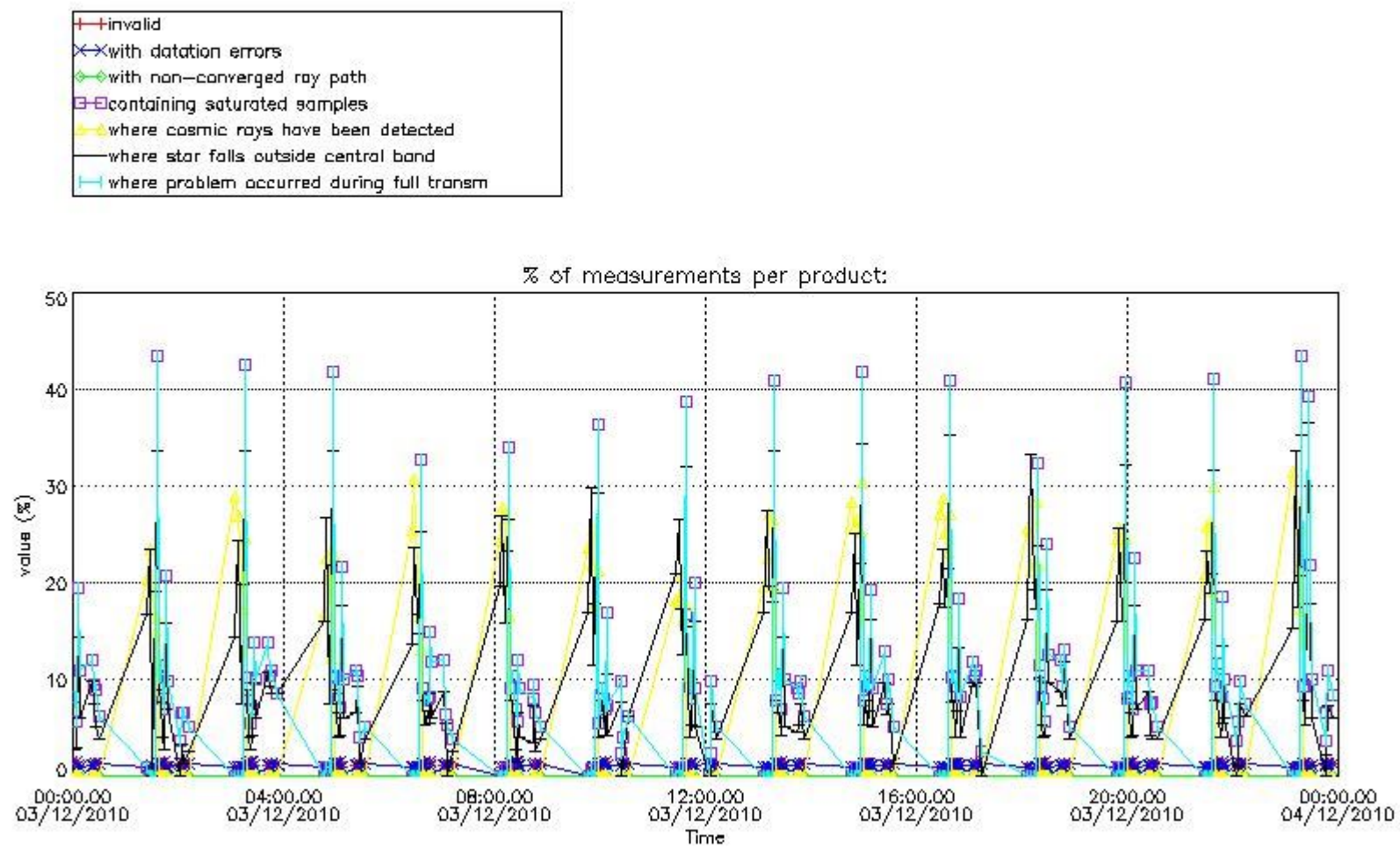
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



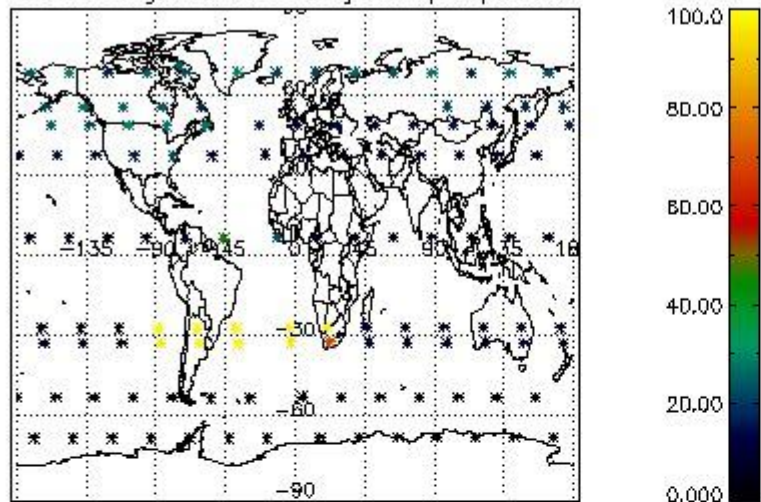
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



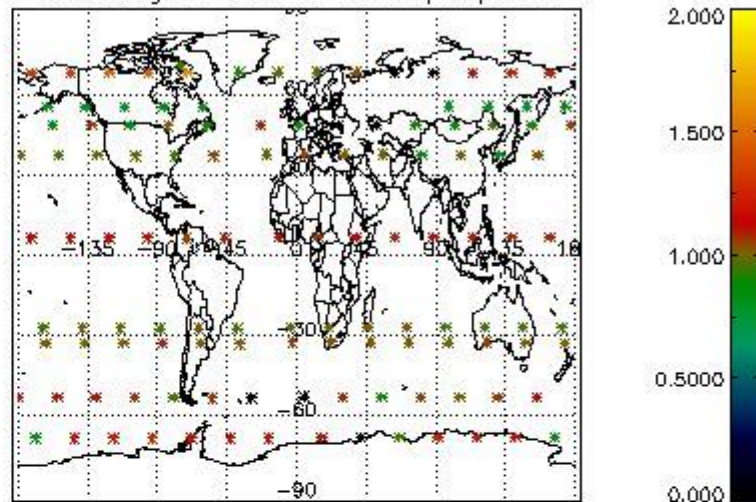
4.2 Plot quality information per product coming from level 1b processing (world map)

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

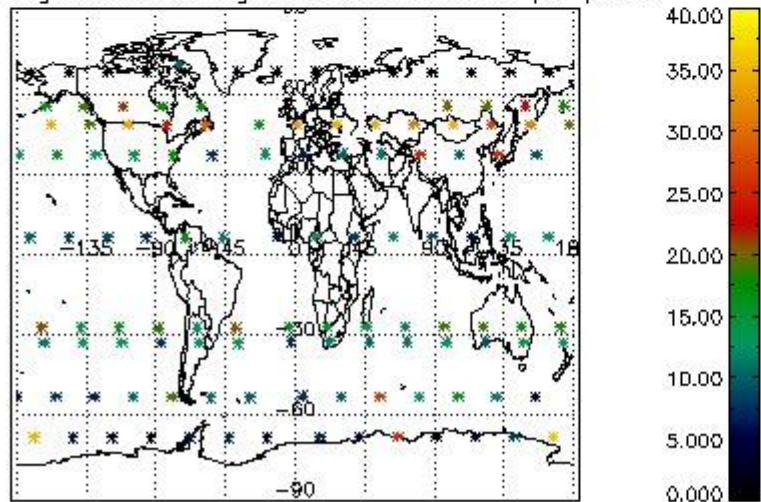
Percentage of cosmic ray hits per profile



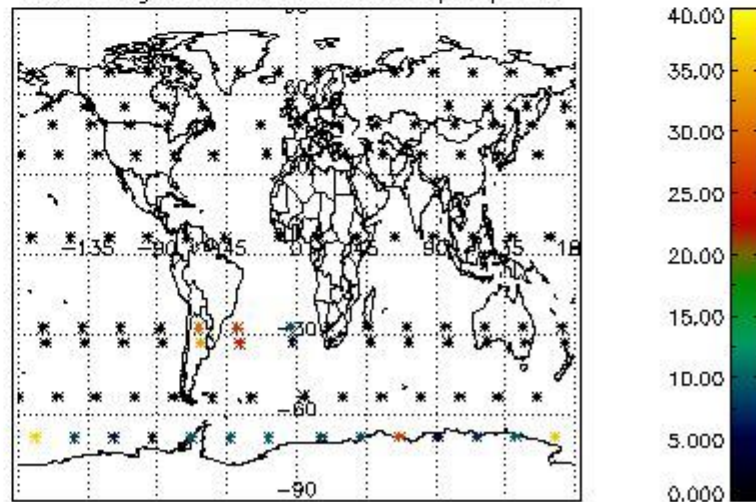
Percentage of datation errors per profile



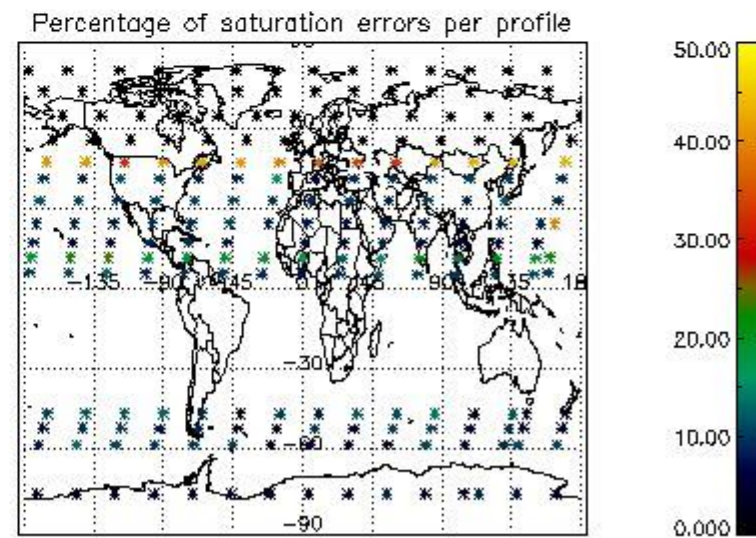
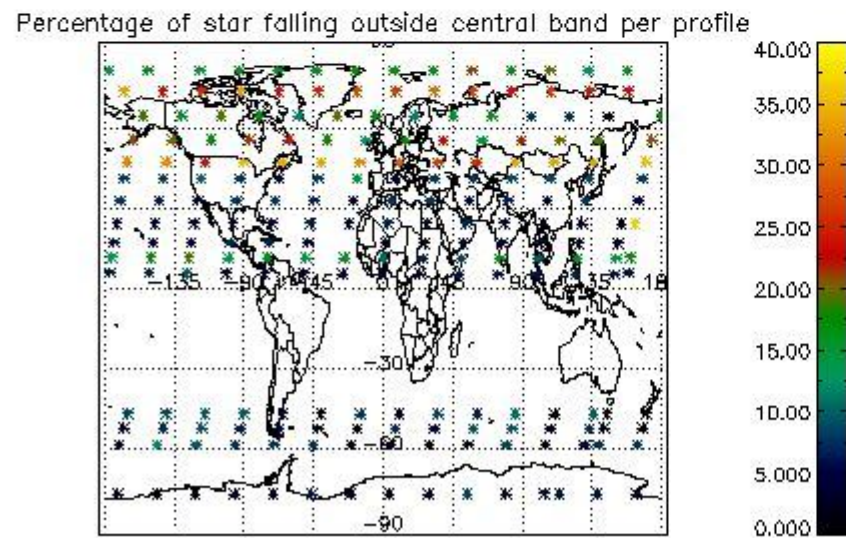
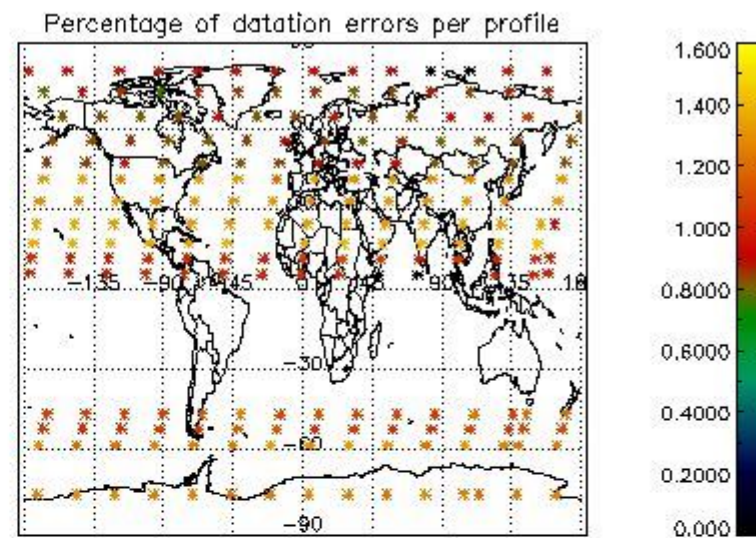
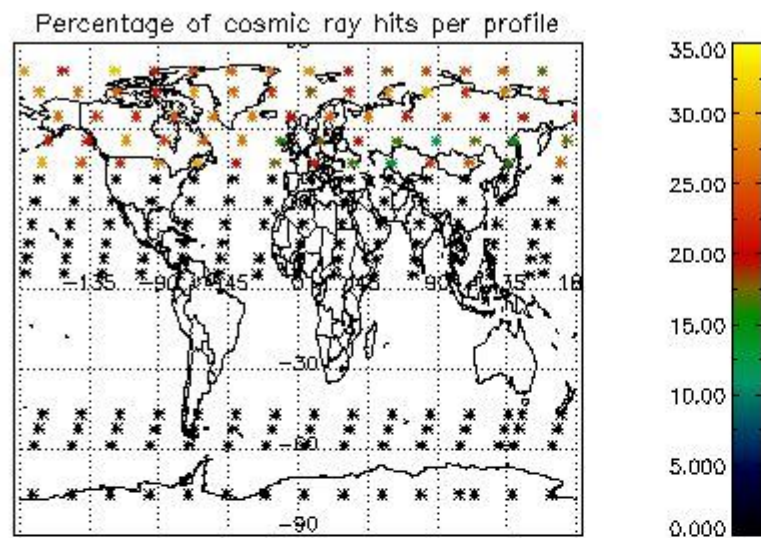
Percentage of star falling outside central band per profile



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

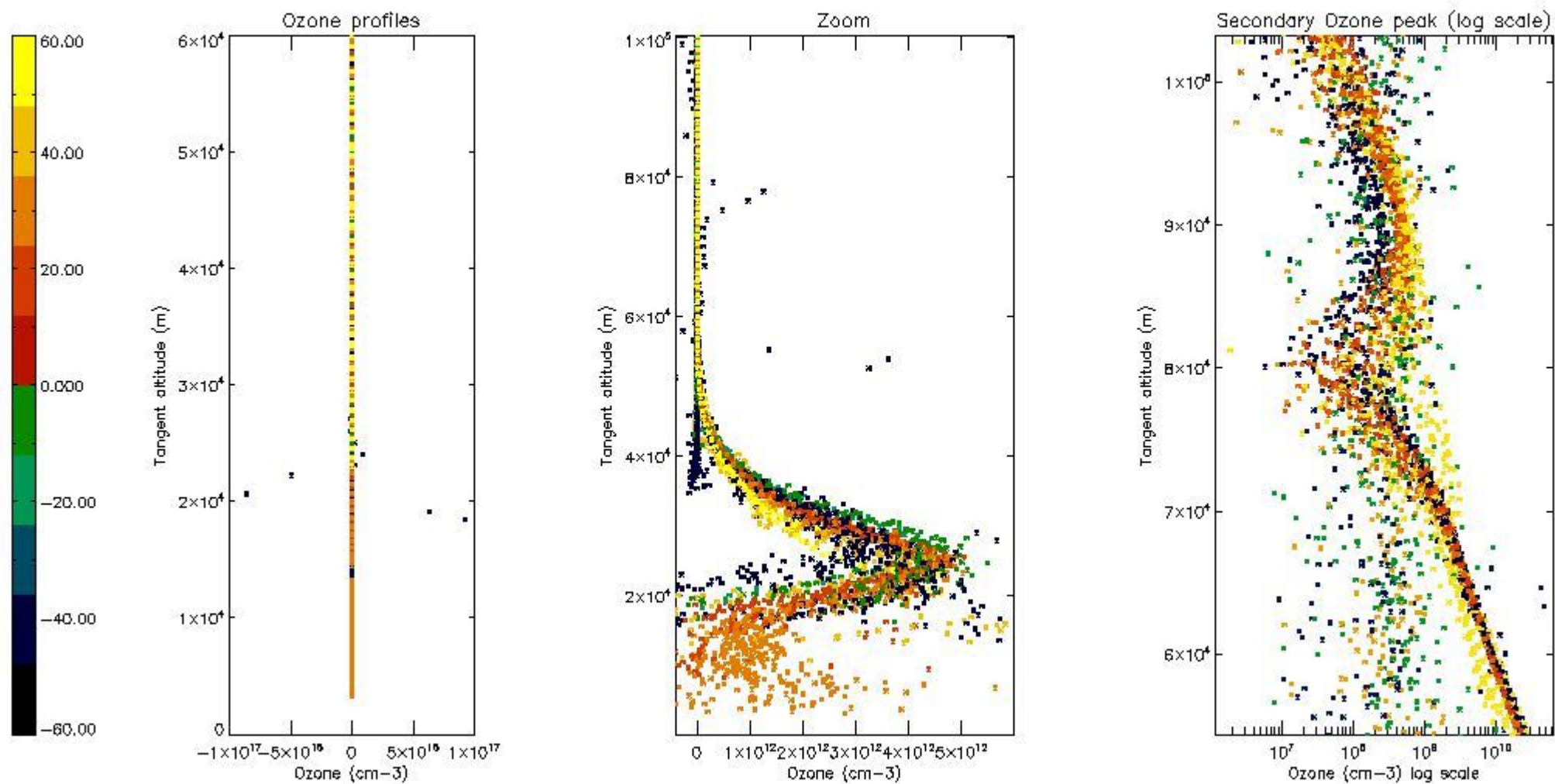
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	30
STD < 20	14

STD < 10	11
STD < 5	8

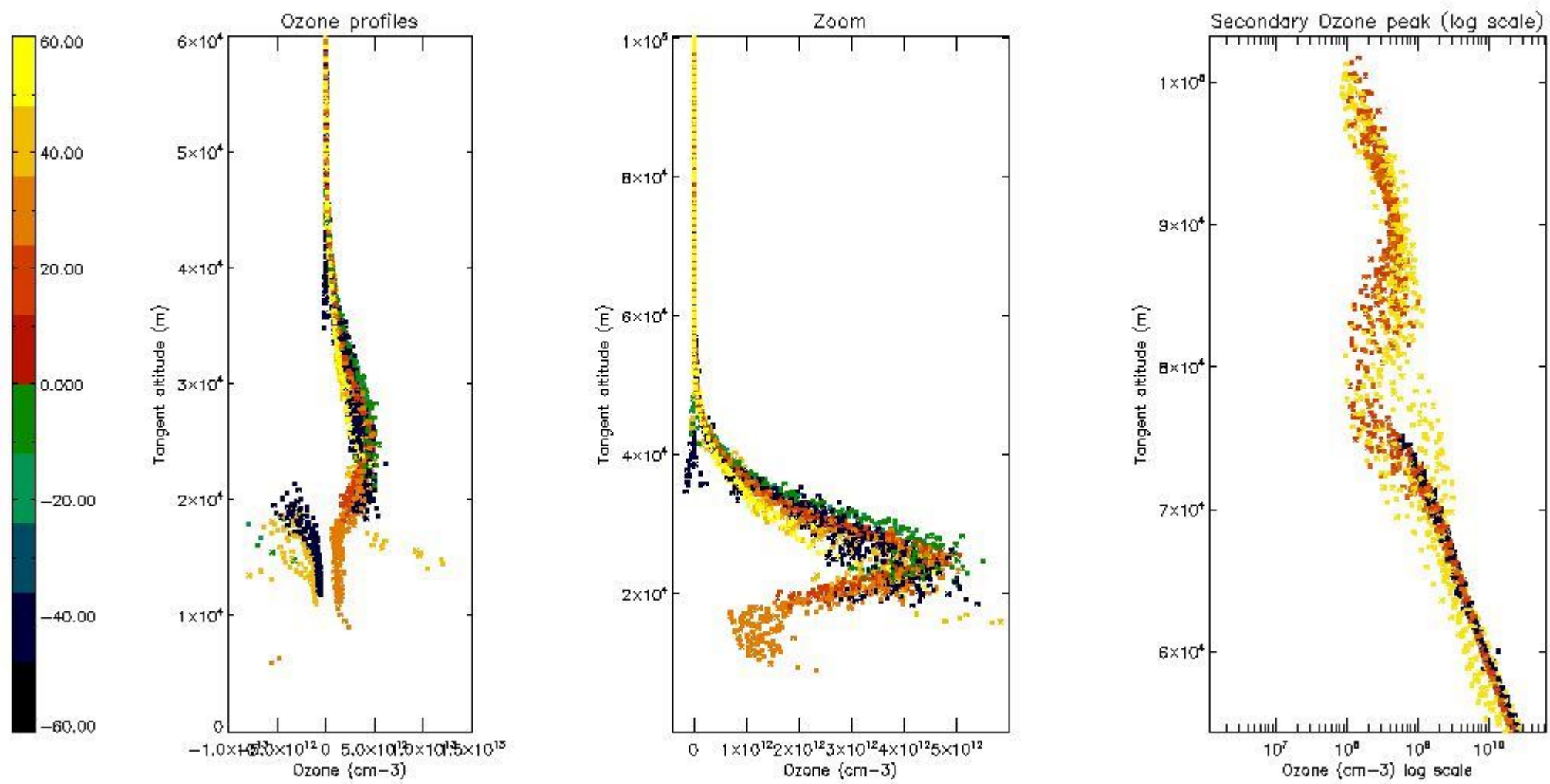
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



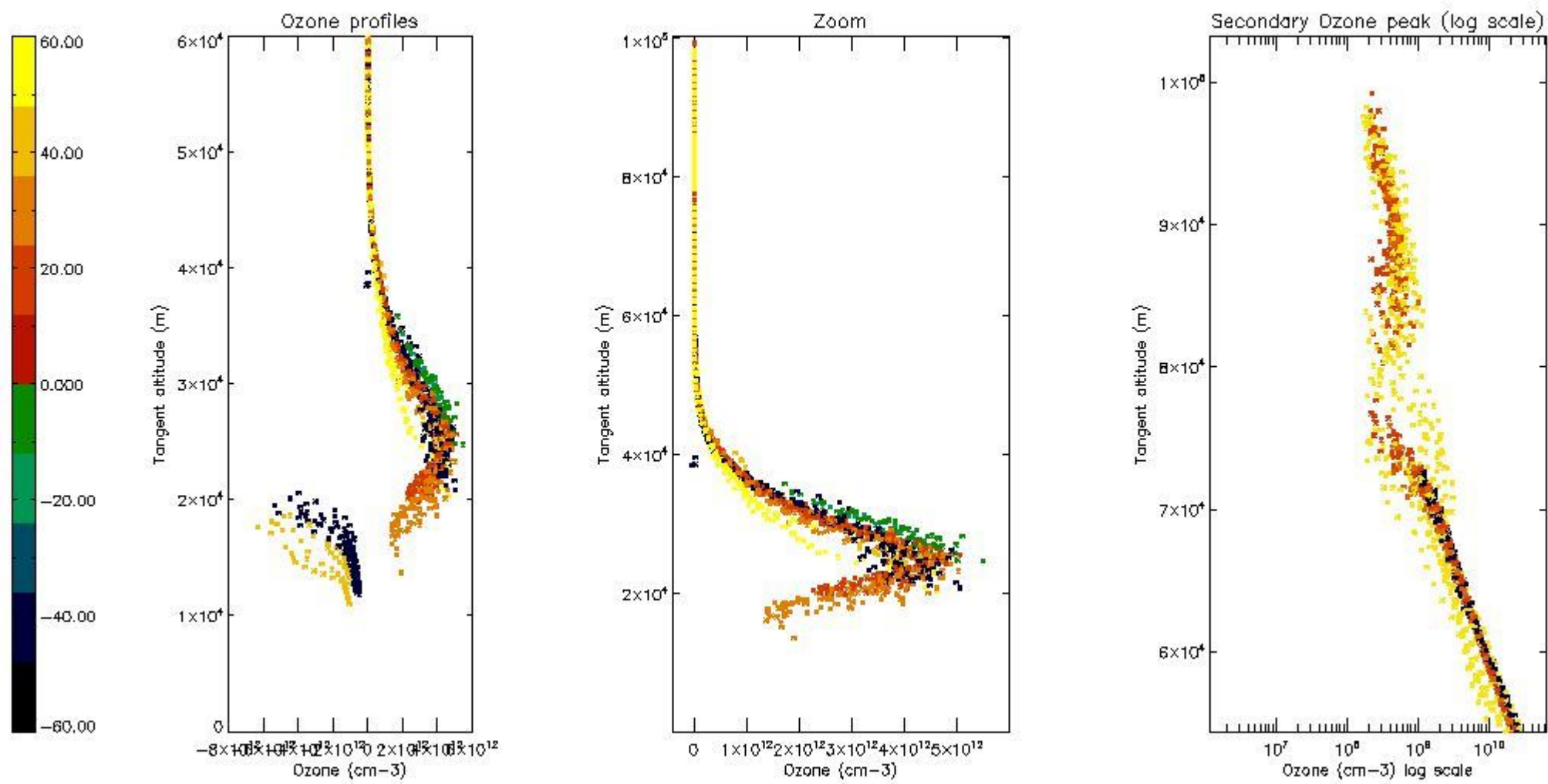
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



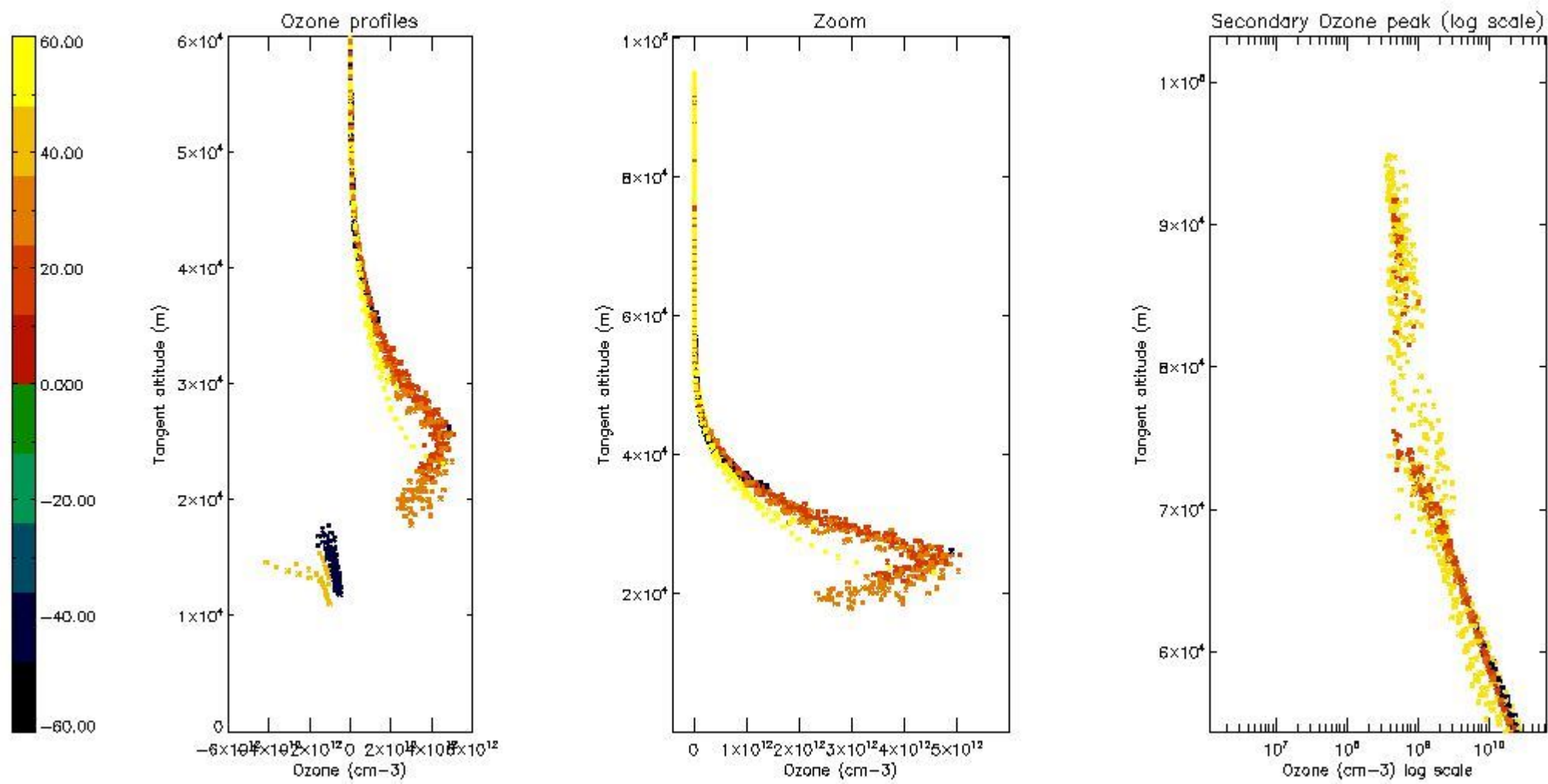
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



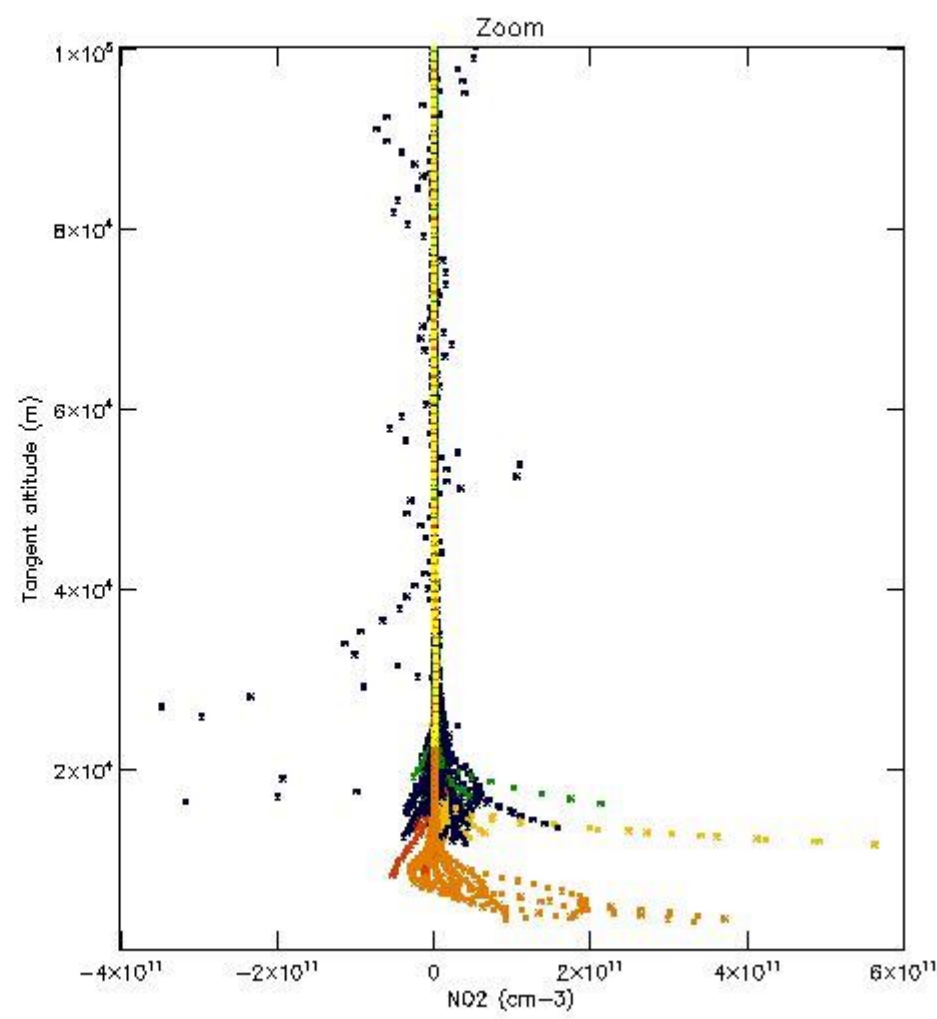
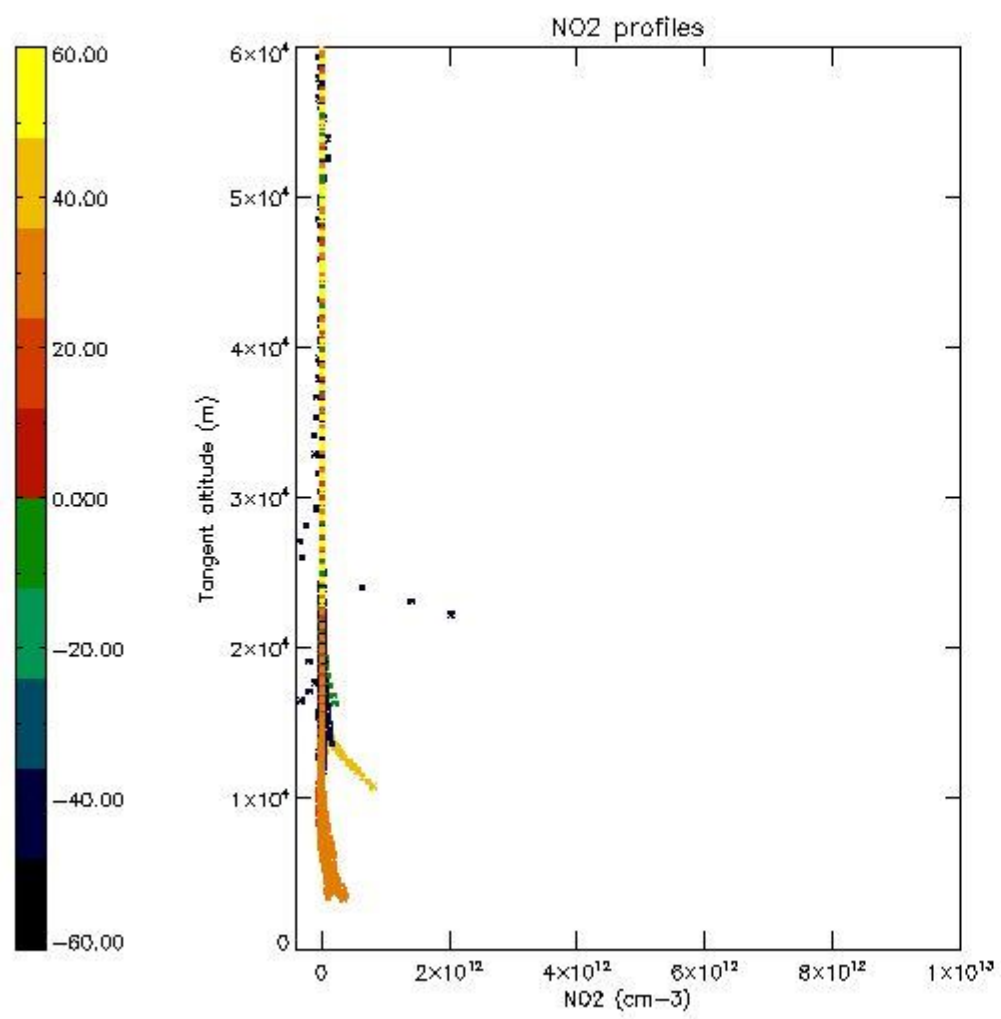
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



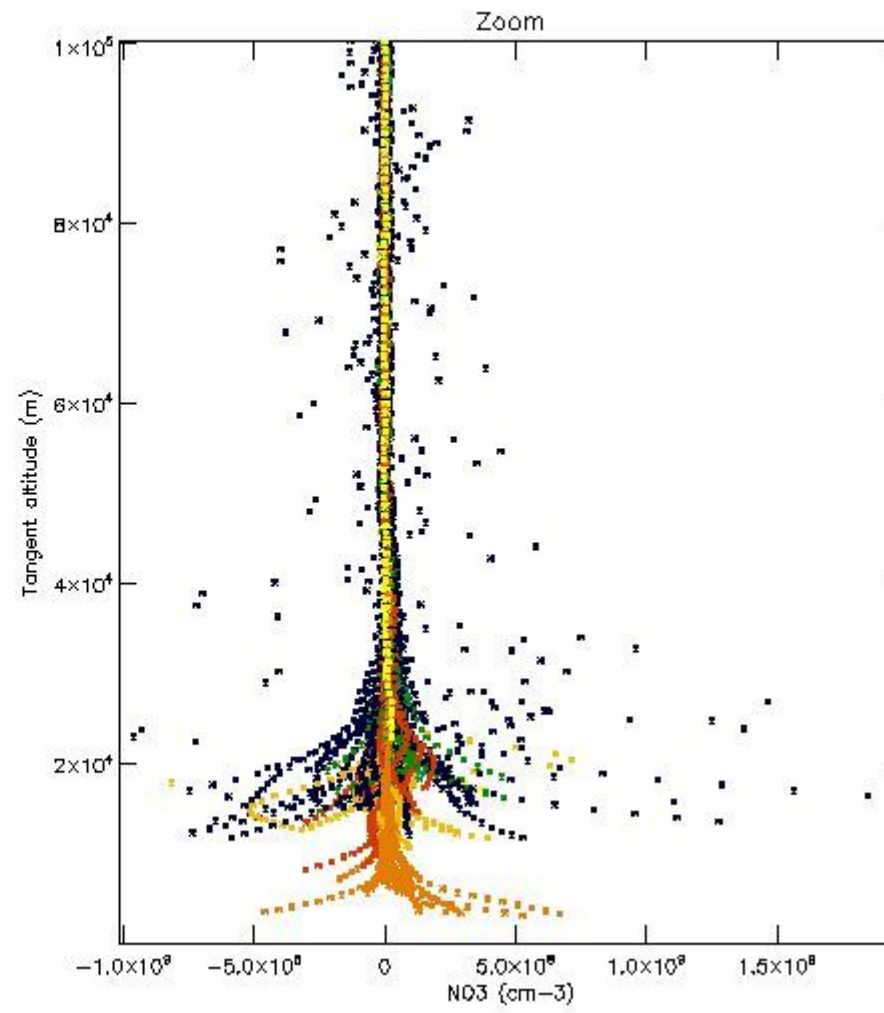
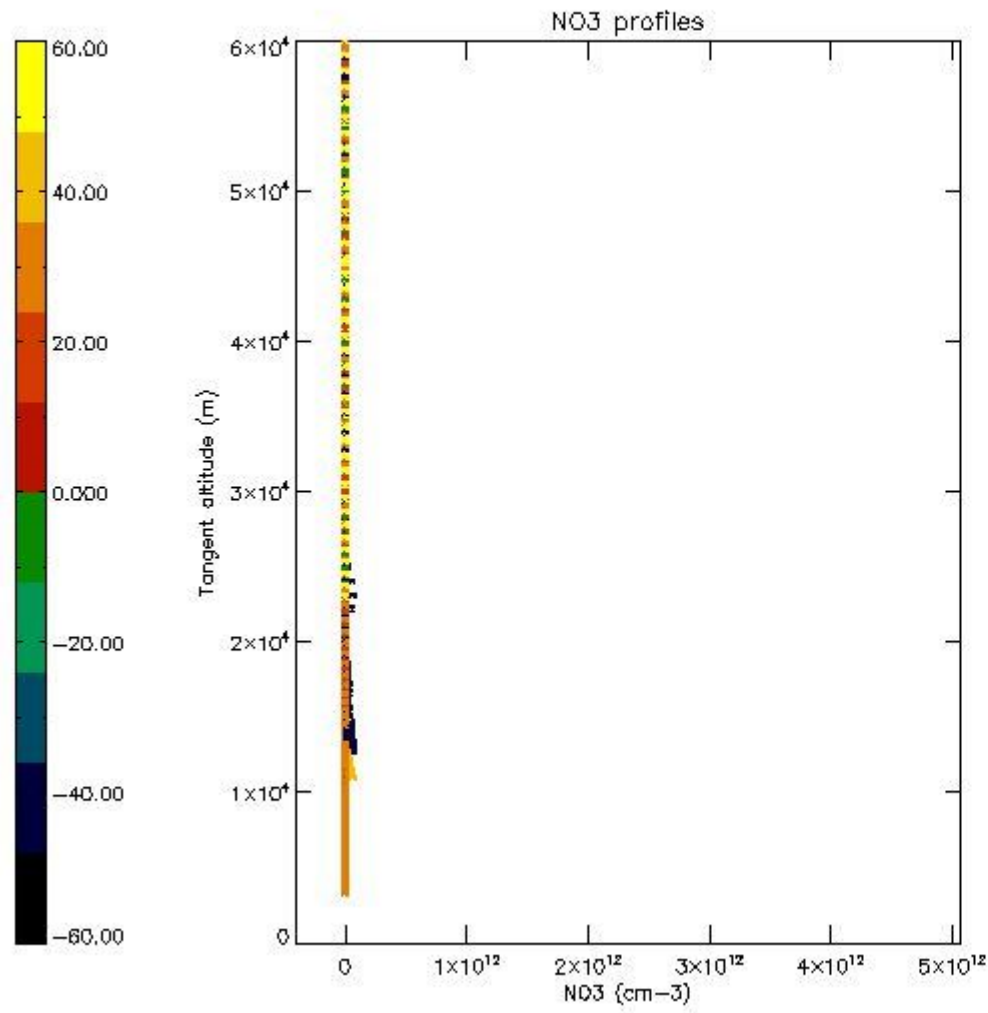
5.6 Plot NO₂ profiles for all STD (dark without errors)

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_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	03-DEC-2010 00:02:04
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	03-DEC-2010 00:02:04
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	03-DEC-2010 00:02:04

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[2. Summary of processed GOM_NL_2P products](#)

[3. Level 2 Quality information per product](#)

[3.1 Plot of level 2 quality information per product \(time dependant\)](#)

[3.2 Plot of level 2 quality information per product \(world map\)](#)

[4. Level 1 Quality information per product \(stored on level 2 products\)](#)

[4.1 Plot of level 1 quality information per product \(time dependant\)](#)

[4.1.1 Plot of level 1 quality information per product \(time dependant\): ASCENDING](#)

[4.1.2 Plot of level 1 quality information per product \(time dependant\): DESCENDING](#)

[4.2 Plot of level 1 quality information per product \(world map\)](#)

[4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

[4.2.2 Plot of level 1 quality information per product \(world map\): DESCENDING](#)

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

[5.1 Ozone statistics based on quality of products](#)

[5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

[5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

[5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

[5.6 Plot NO2 profiles for all STD \(dark without errors\)](#)

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

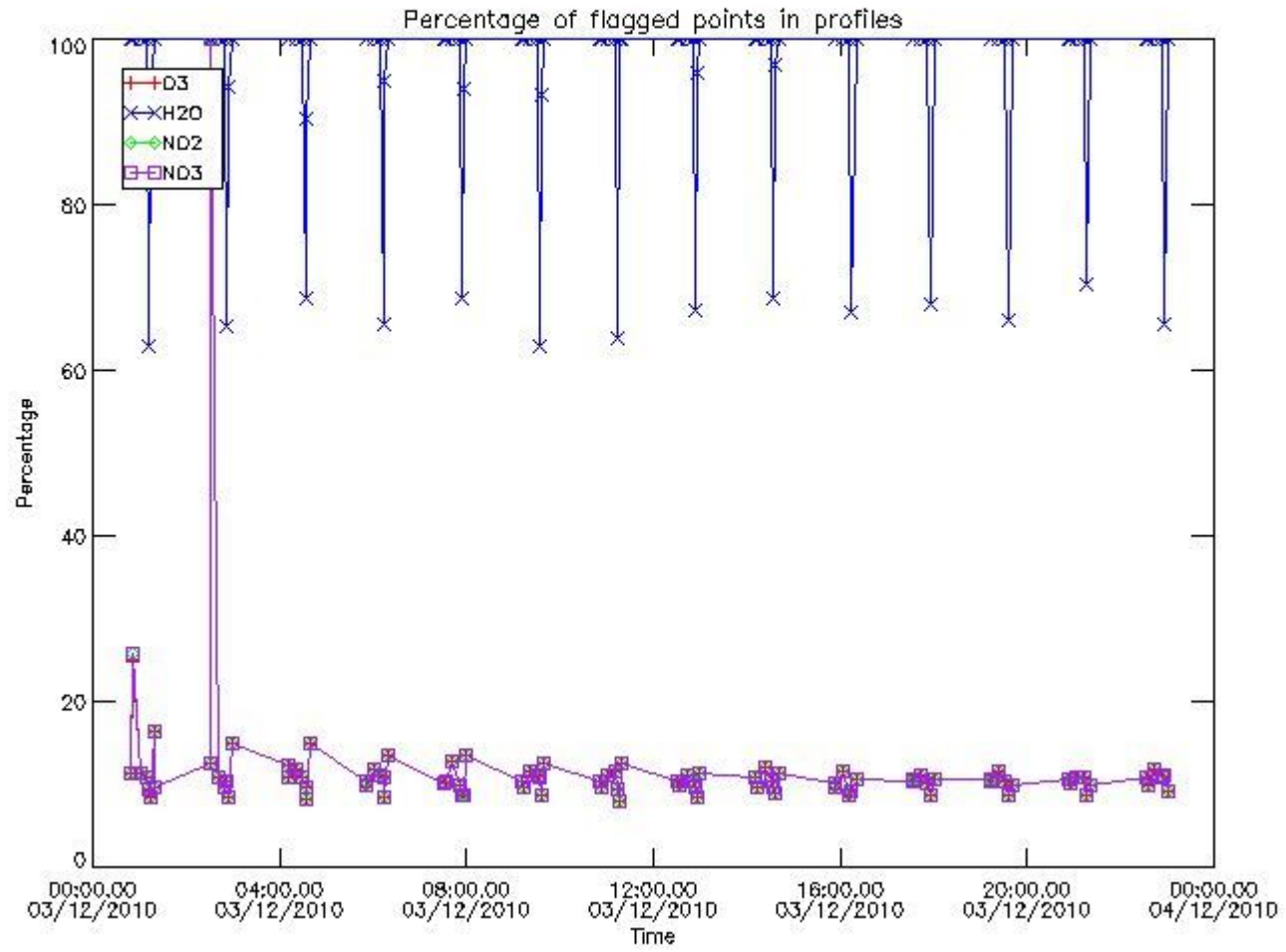
[5.8 Plot H2O profiles \(only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors\) for all STD](#)

[6. Auxiliary Data Files used for the production reported in section 2](#)

3. Quality information per product

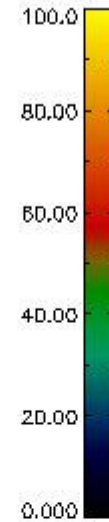
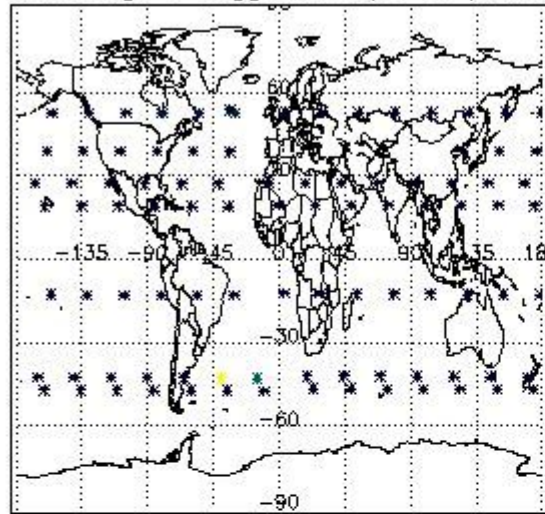
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

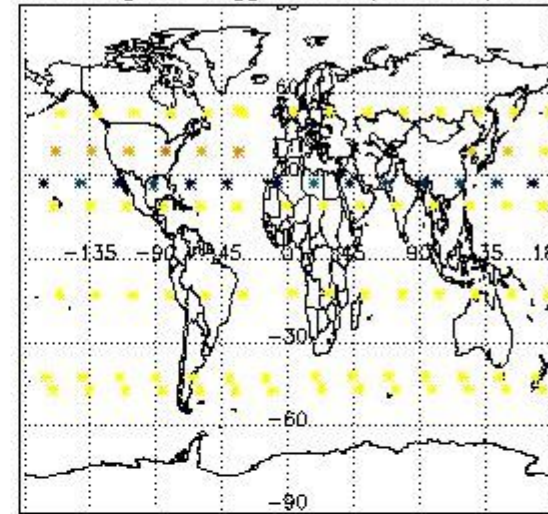


3.2 Plot quality information per product (world map)

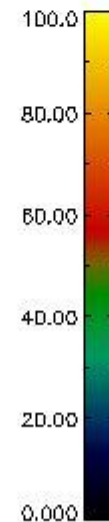
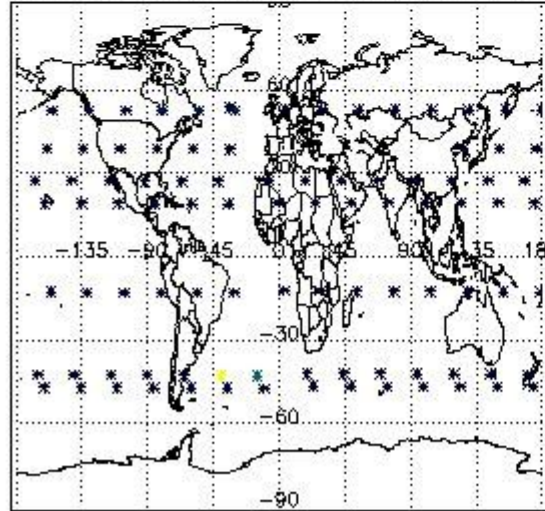
Percentage of flagged data per O3 profile



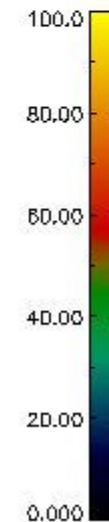
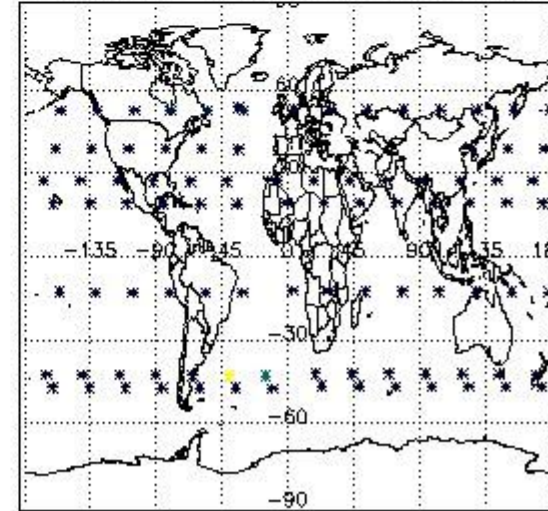
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

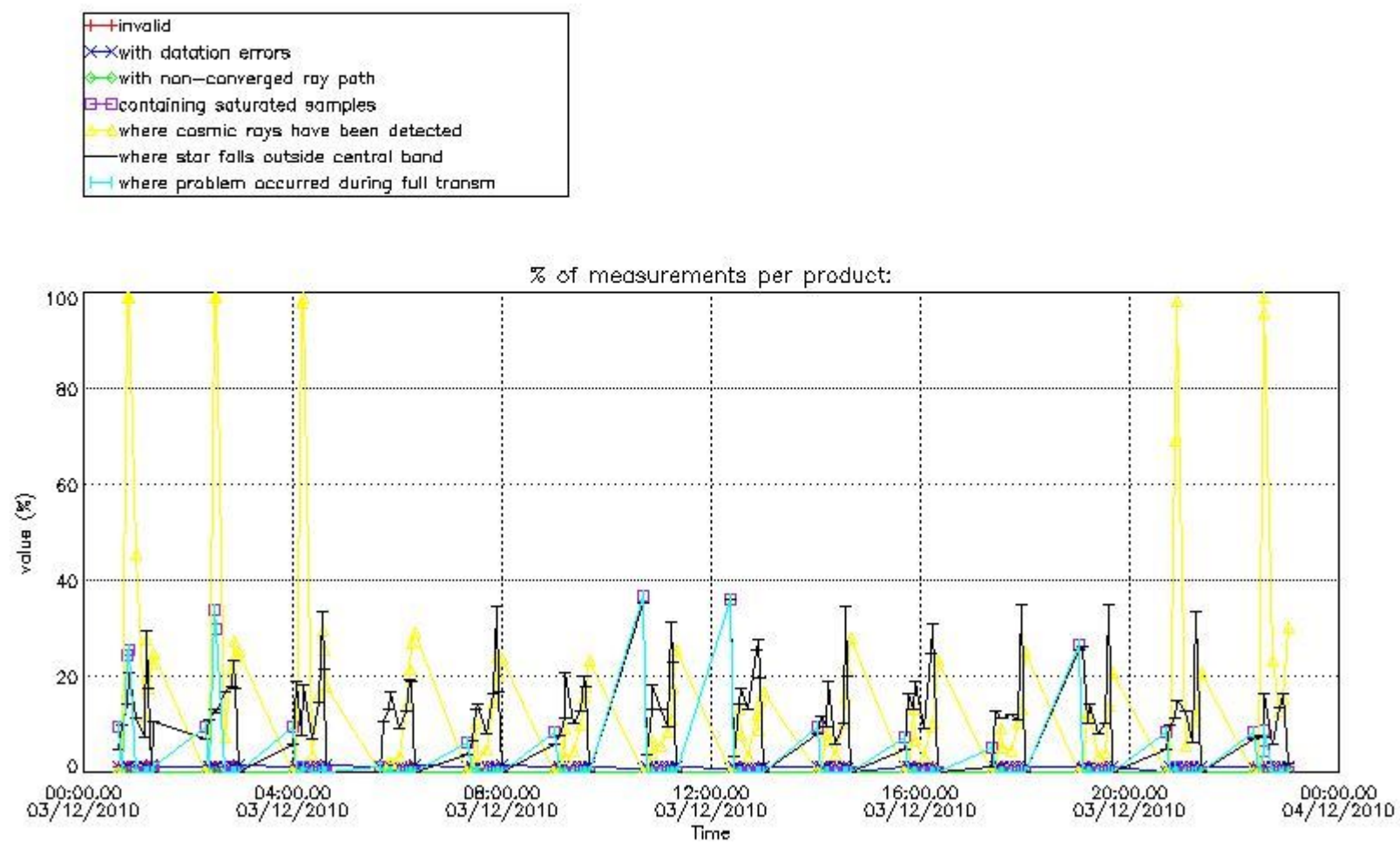


4. Level 1 quality information per product

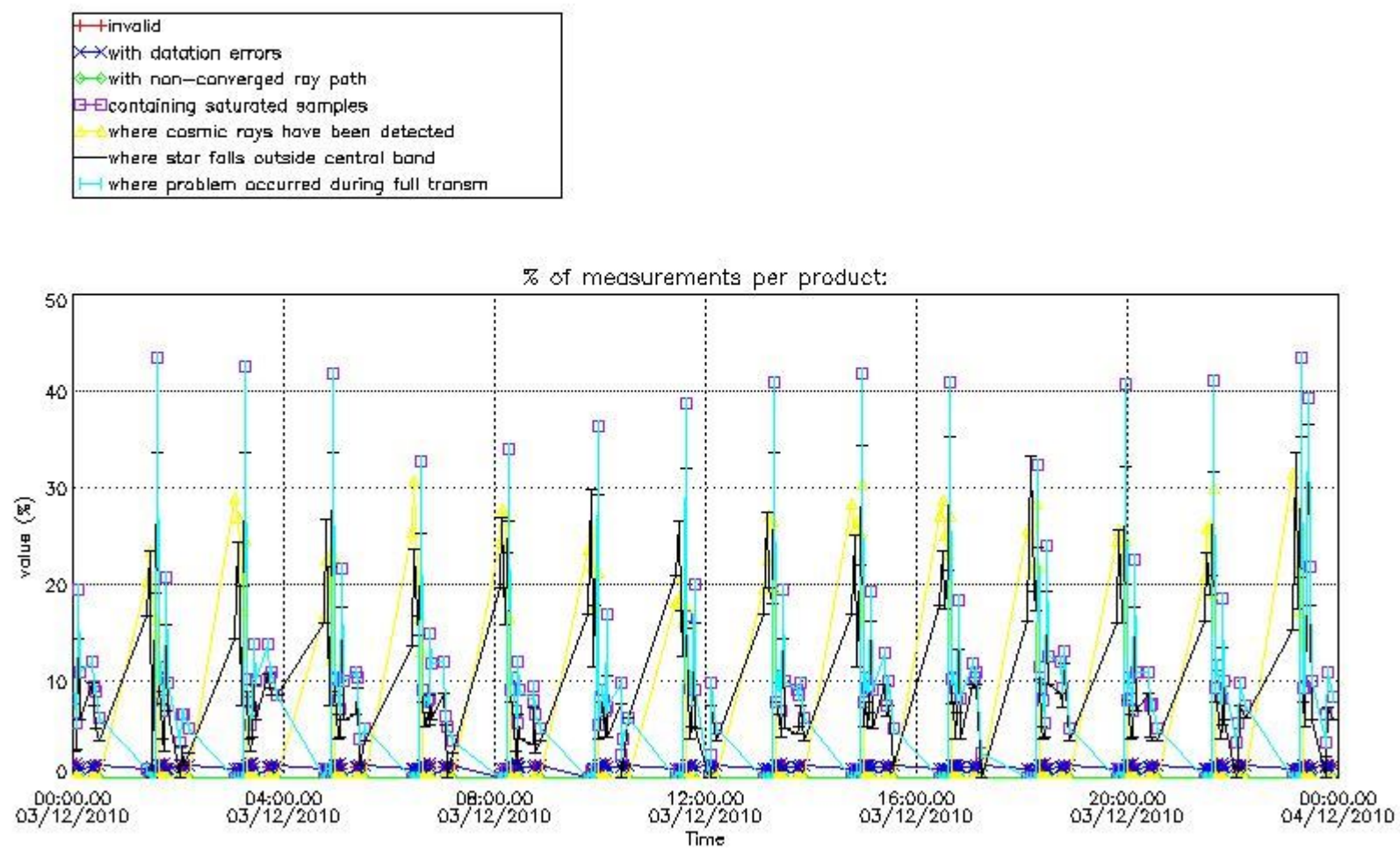
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

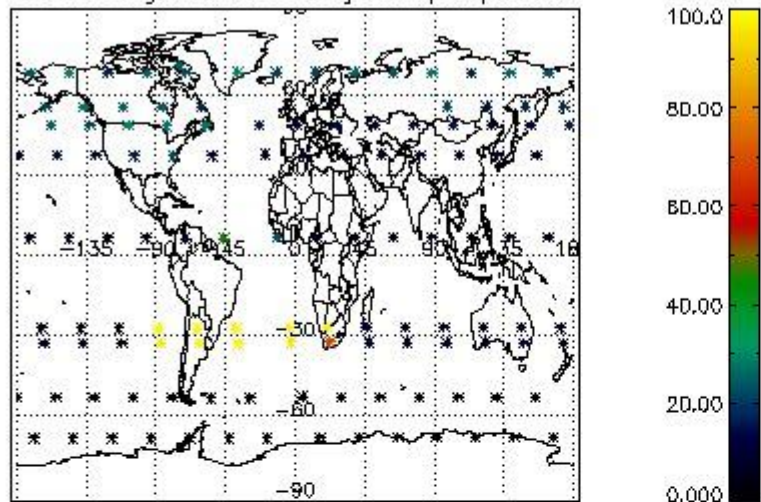


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

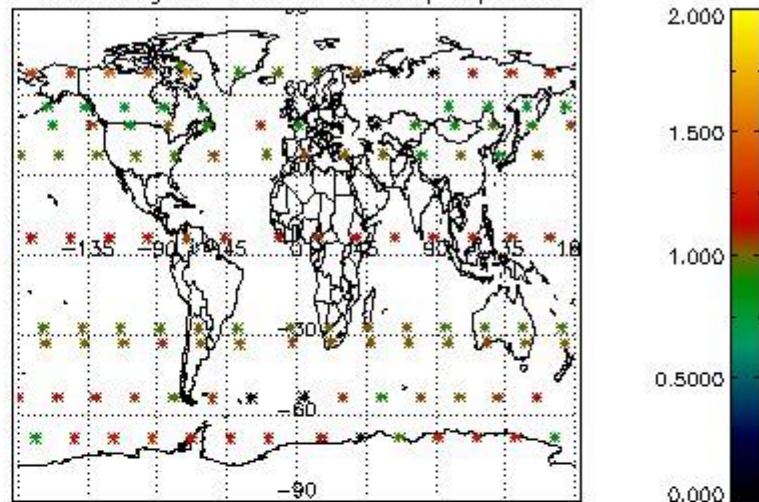


4.2 Plot quality information per product coming from level 1b processing (world map)
 4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

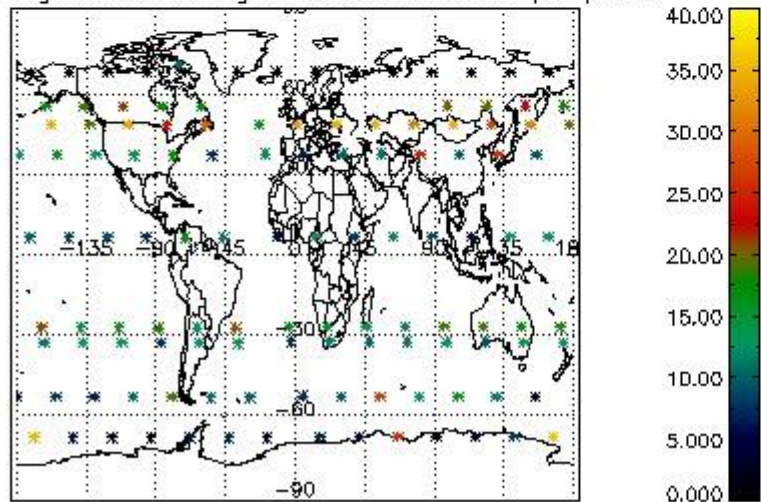
Percentage of cosmic ray hits per profile



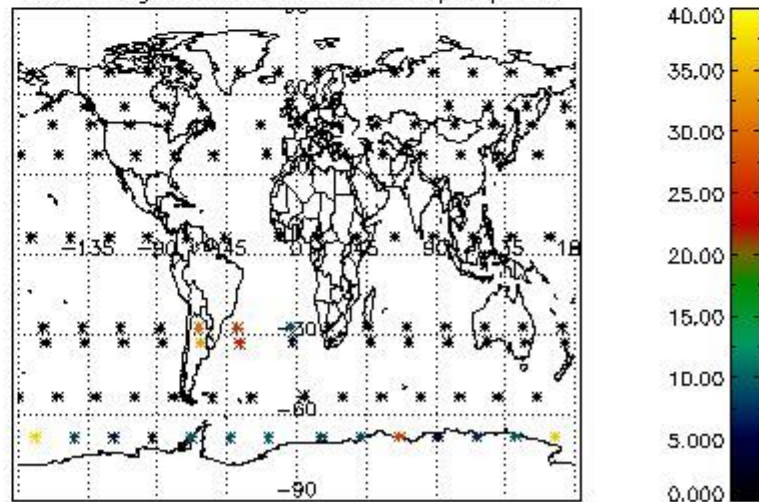
Percentage of datation errors per profile



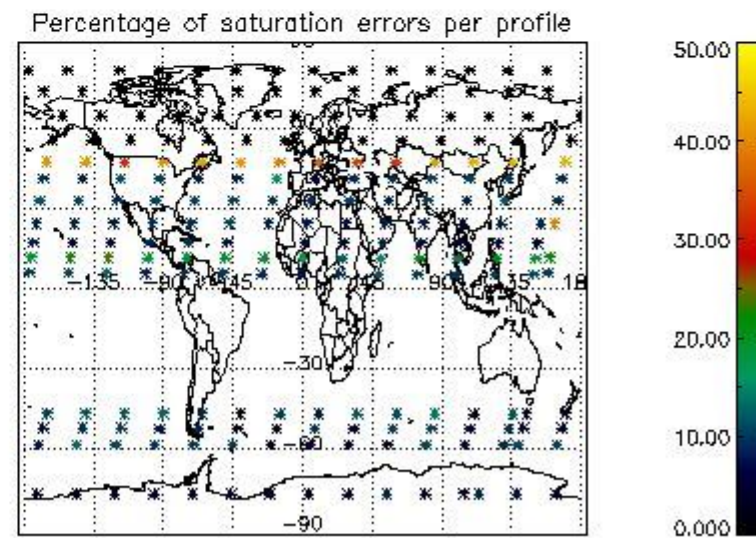
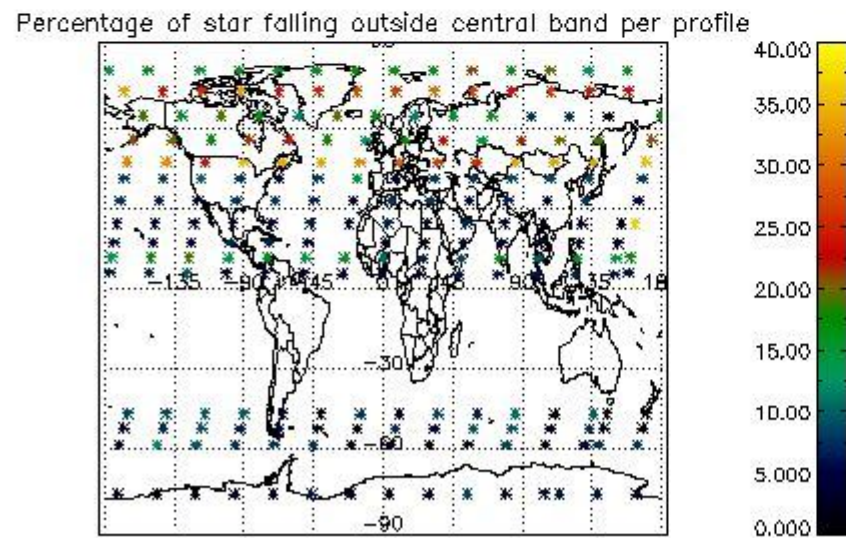
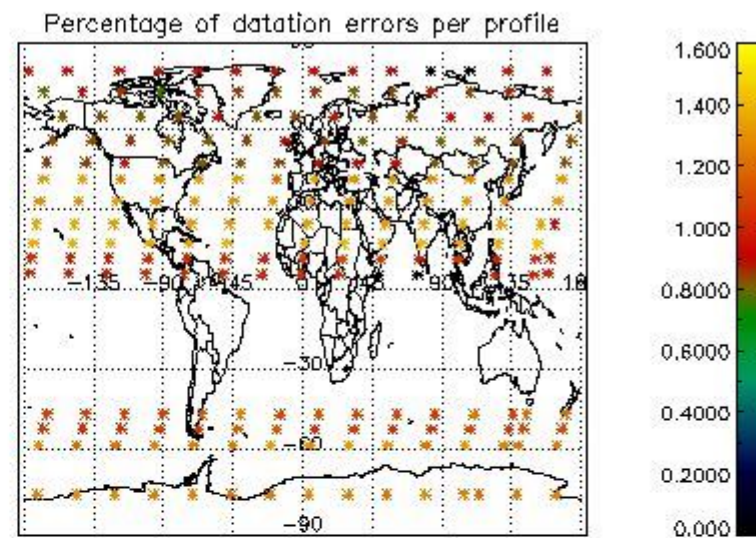
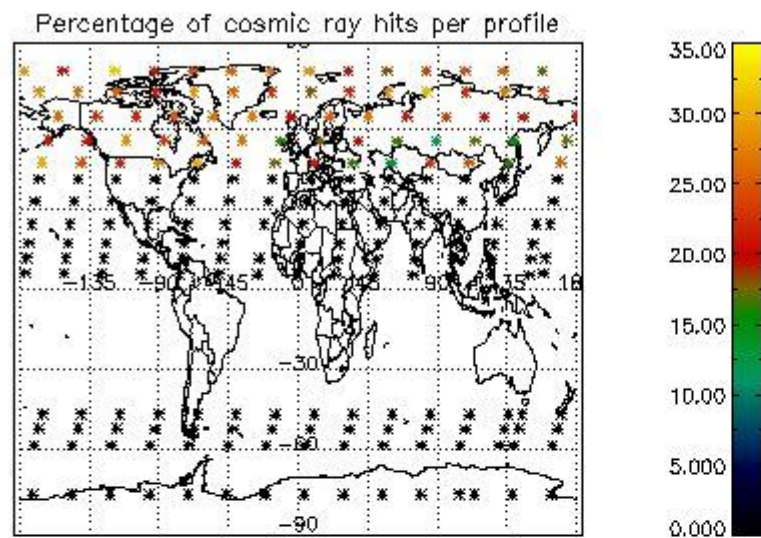
Percentage of star falling outside central band per profile



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

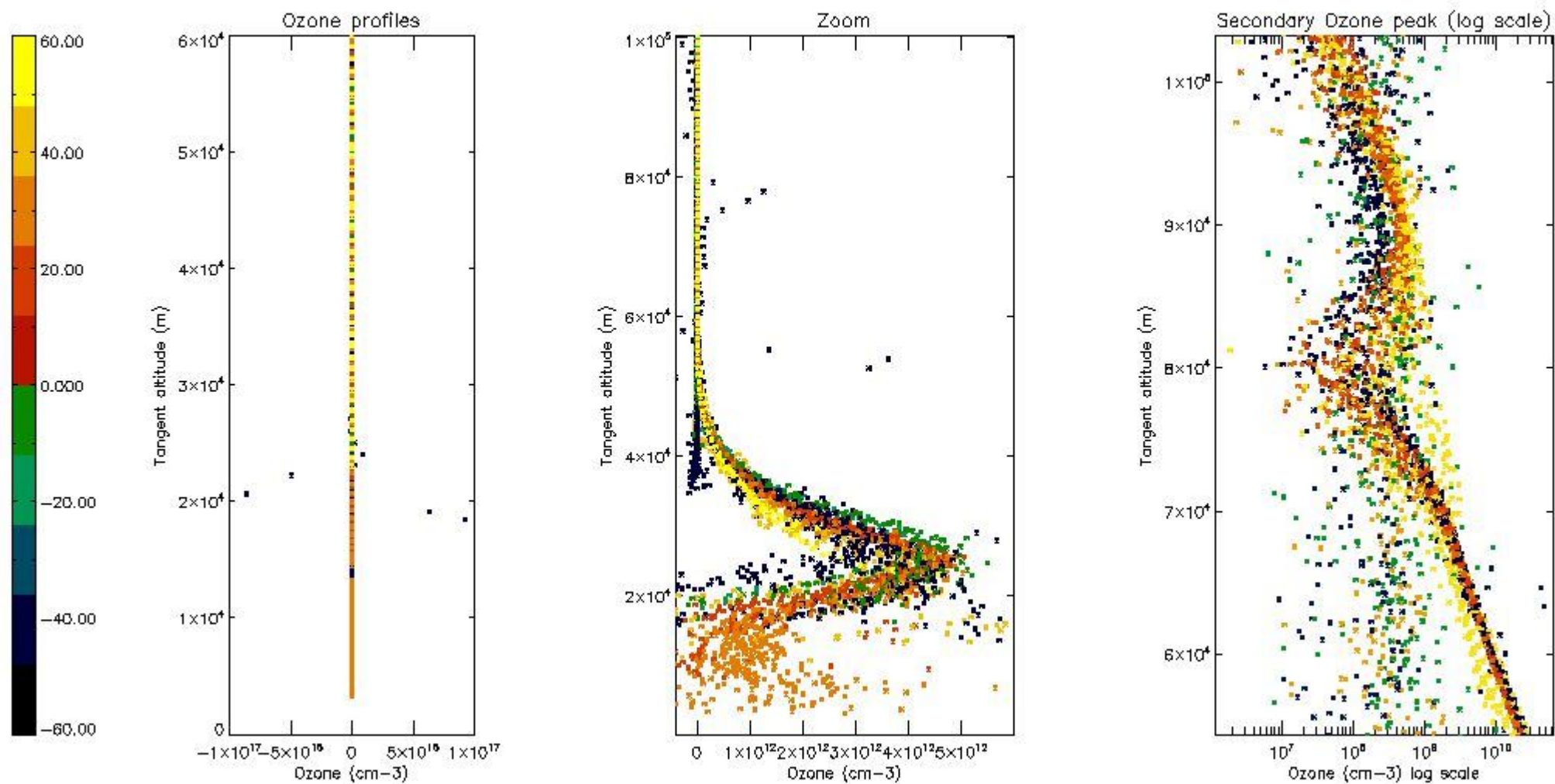
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	30
STD < 20	14

STD < 10	11
STD < 5	8

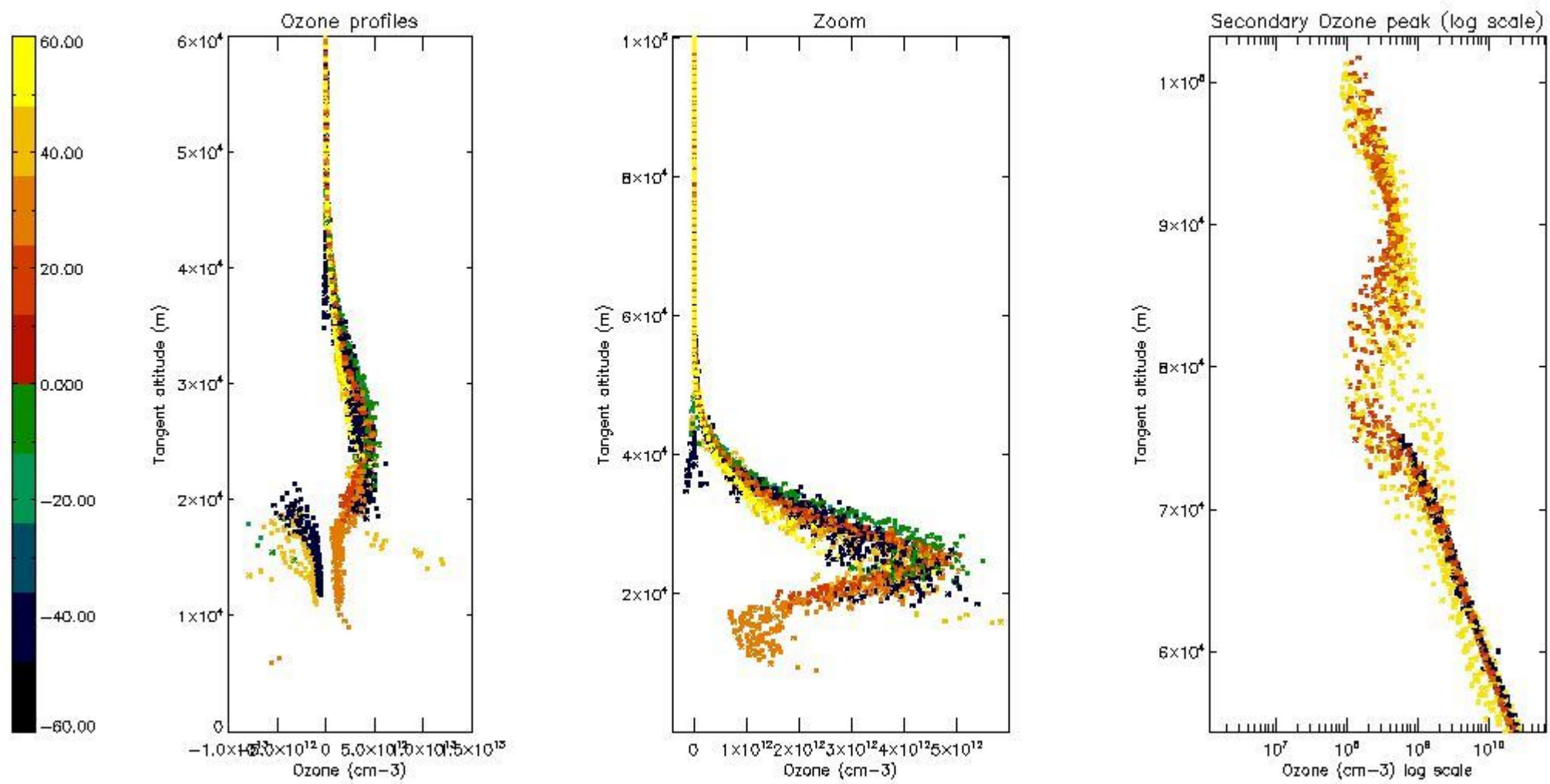
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



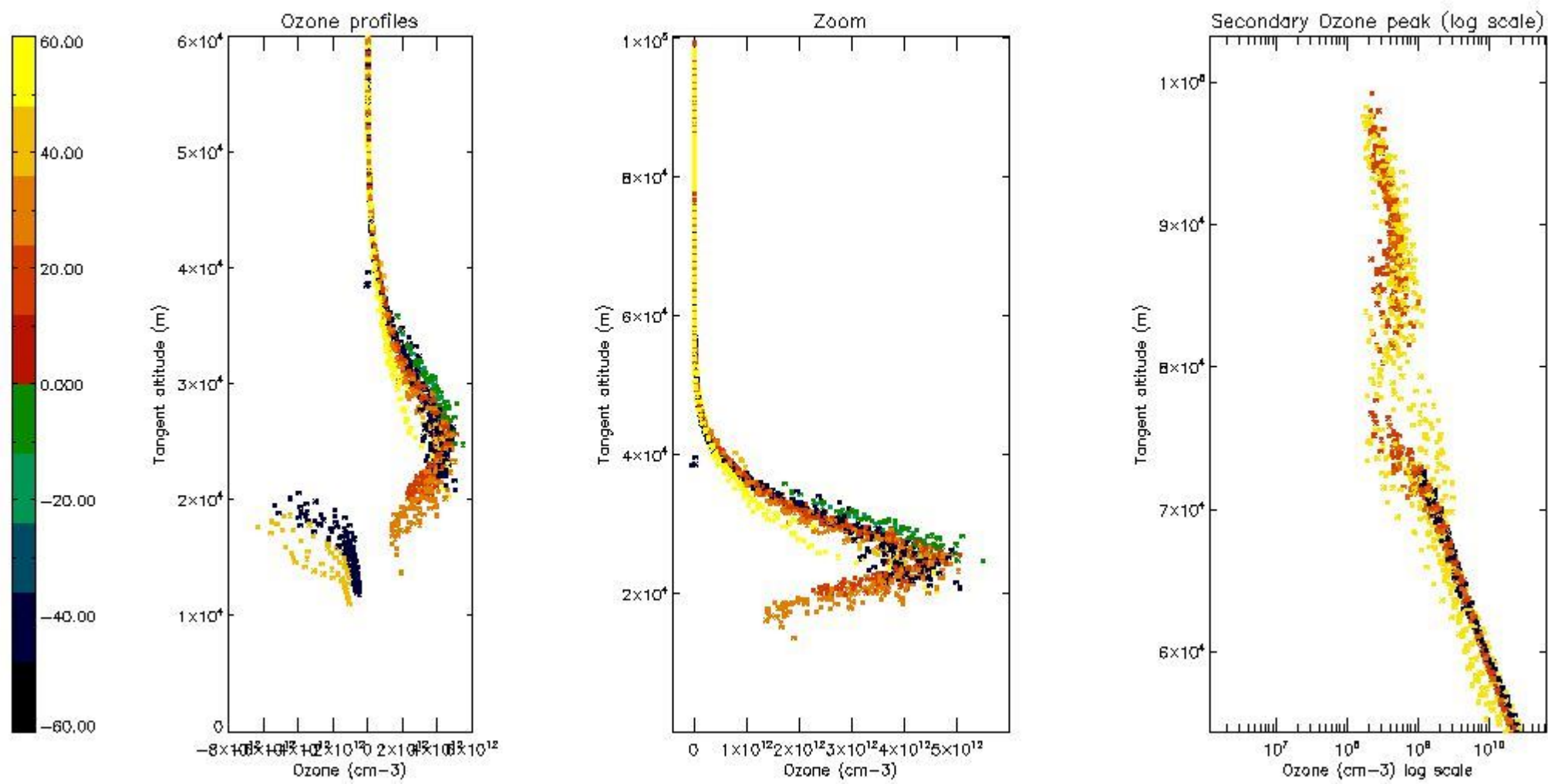
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



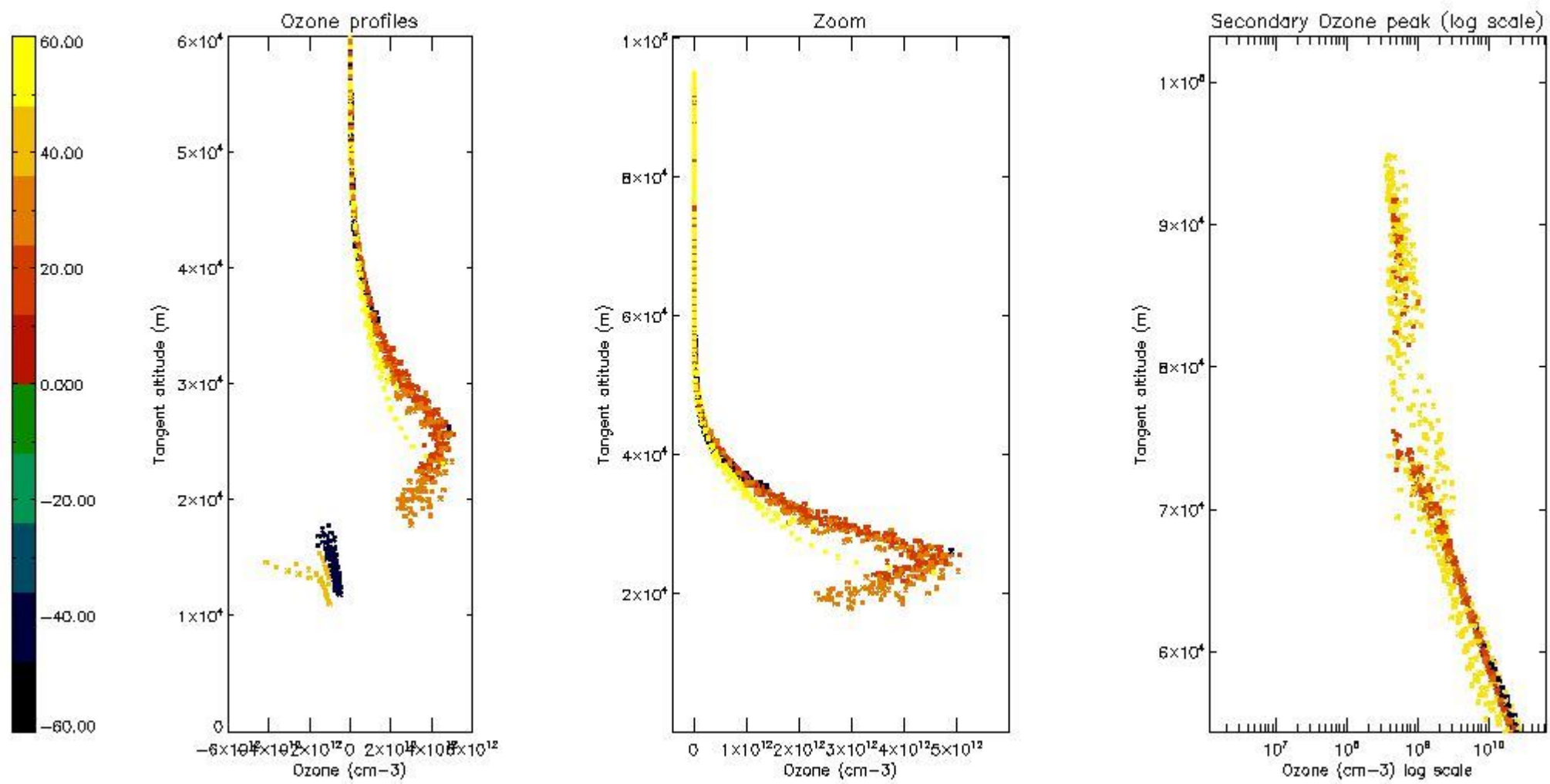
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



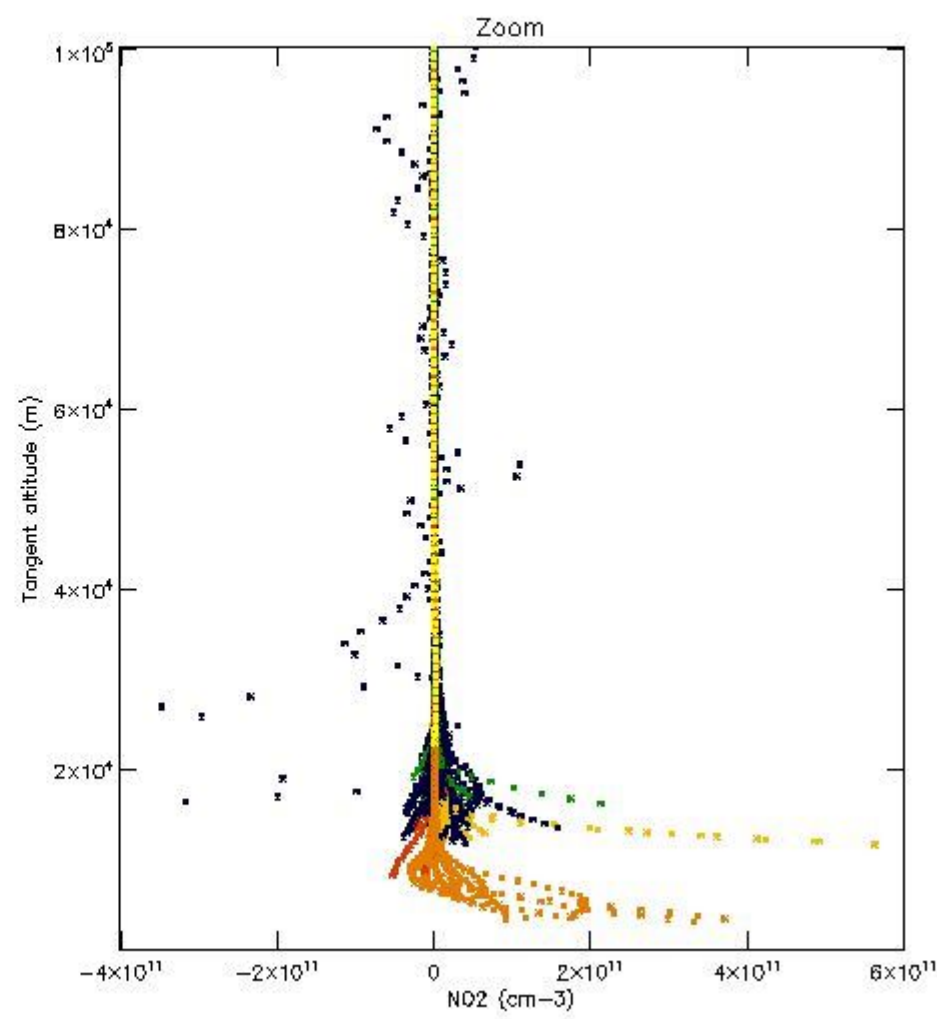
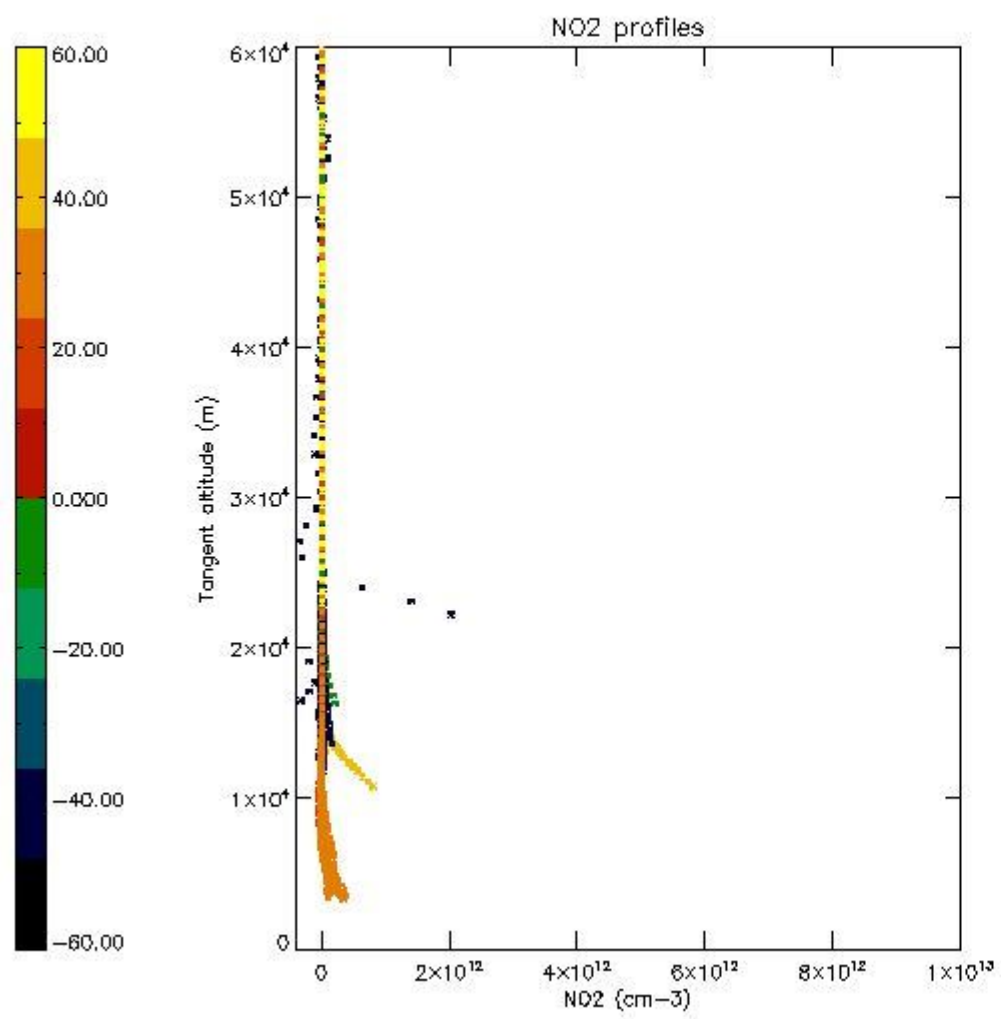
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



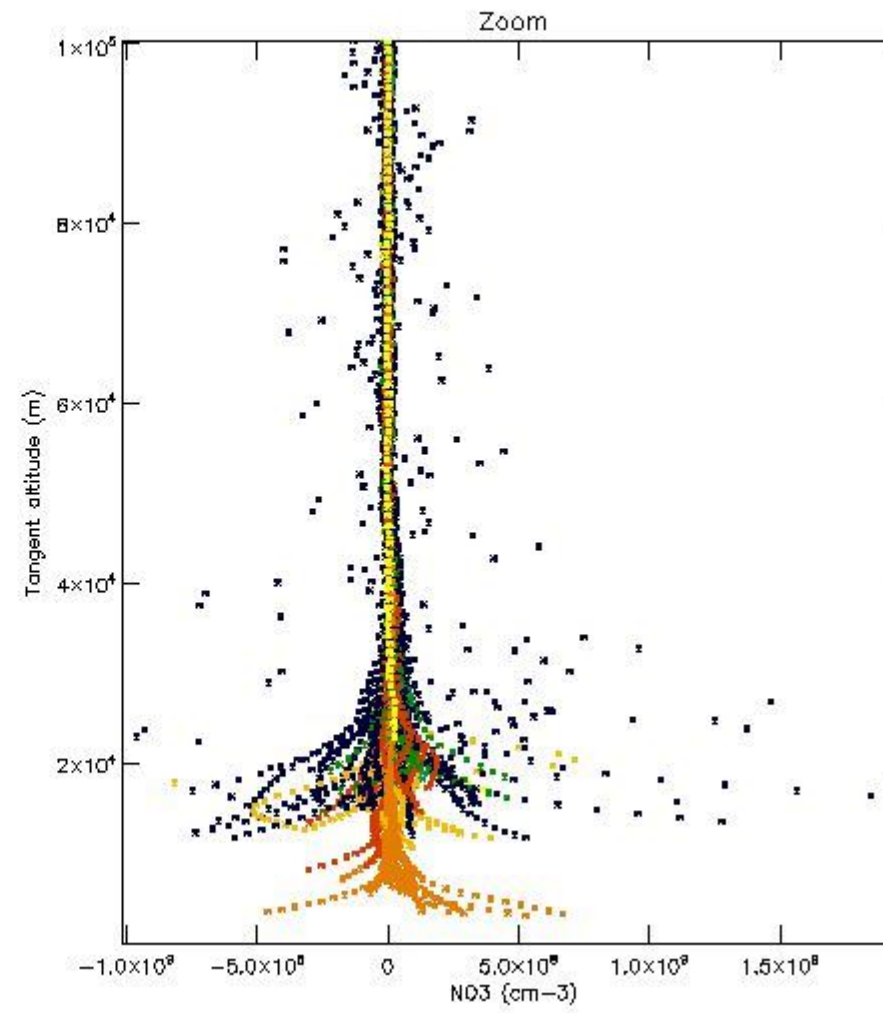
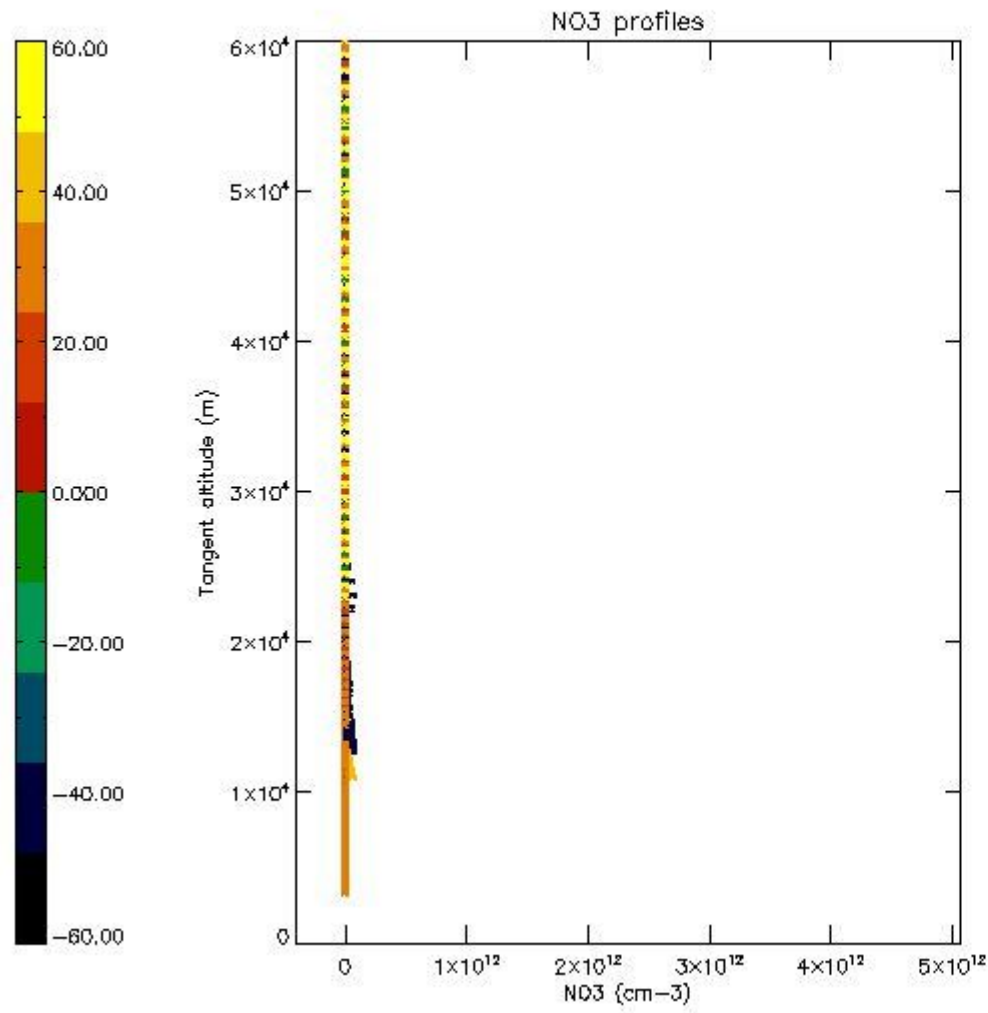
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

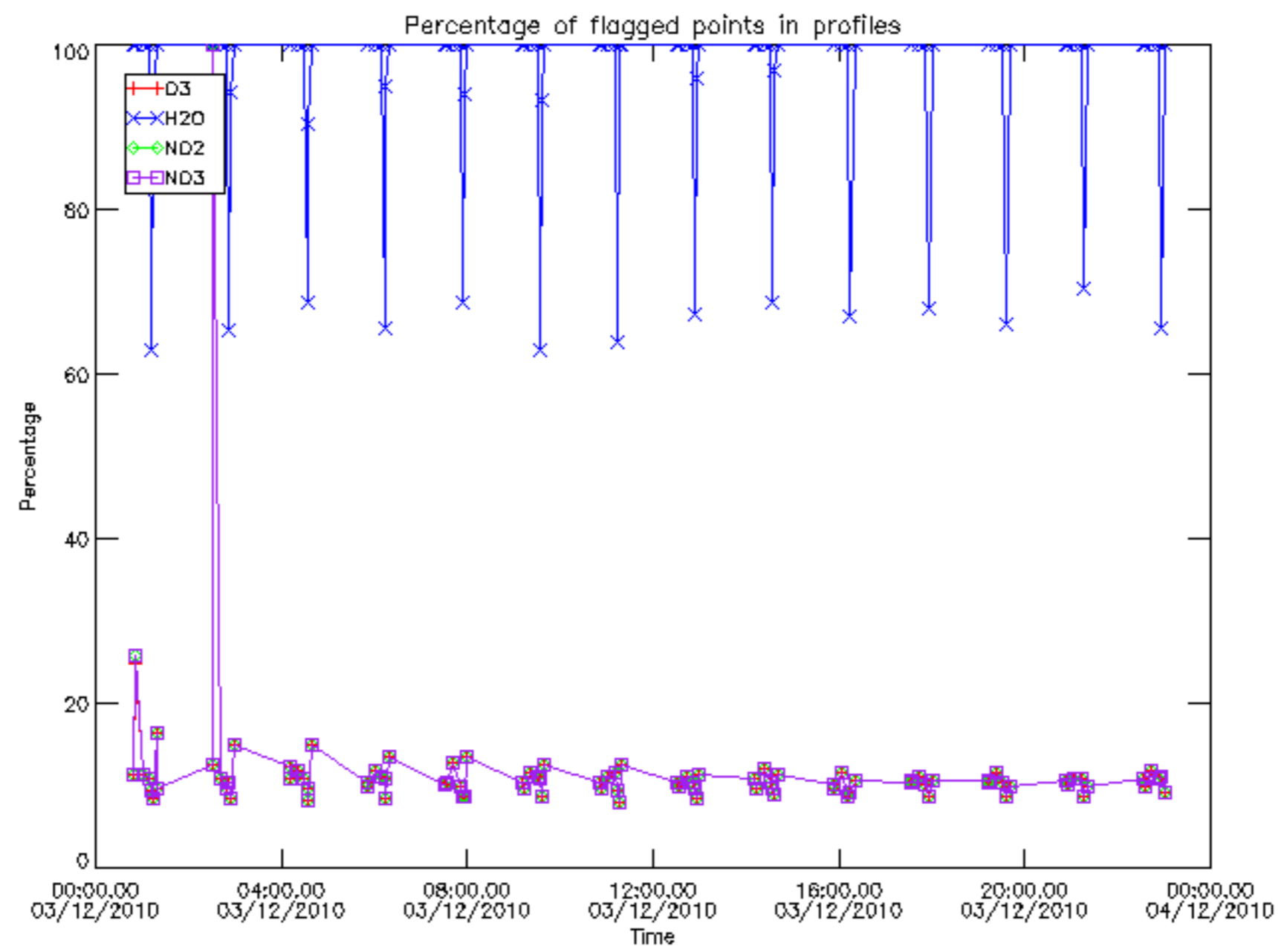
The colorbar represents the latitude.



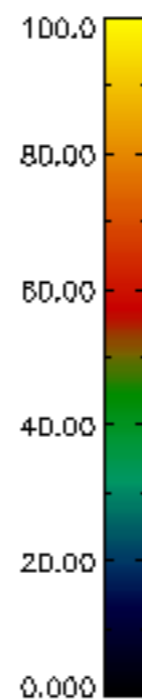
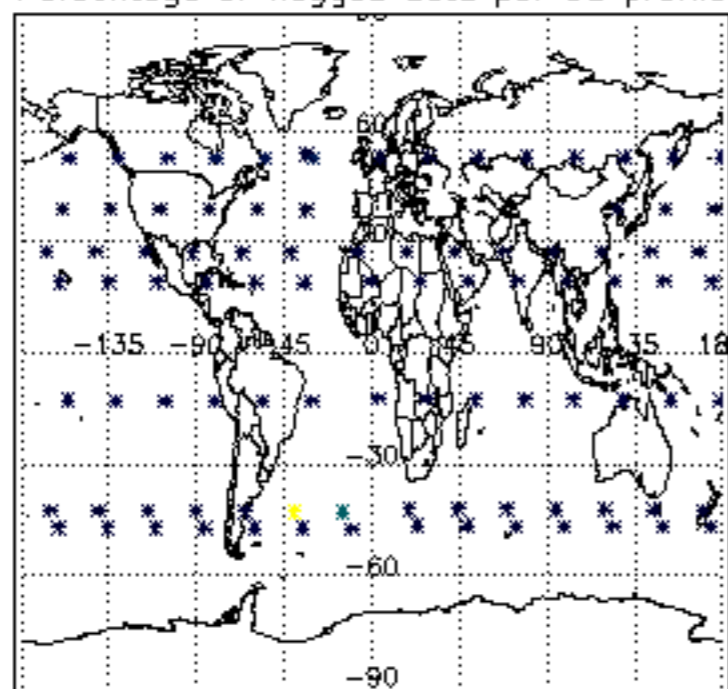
6. Auxiliary Data Files used for the production reported in section 2

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.

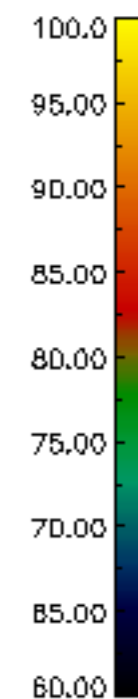
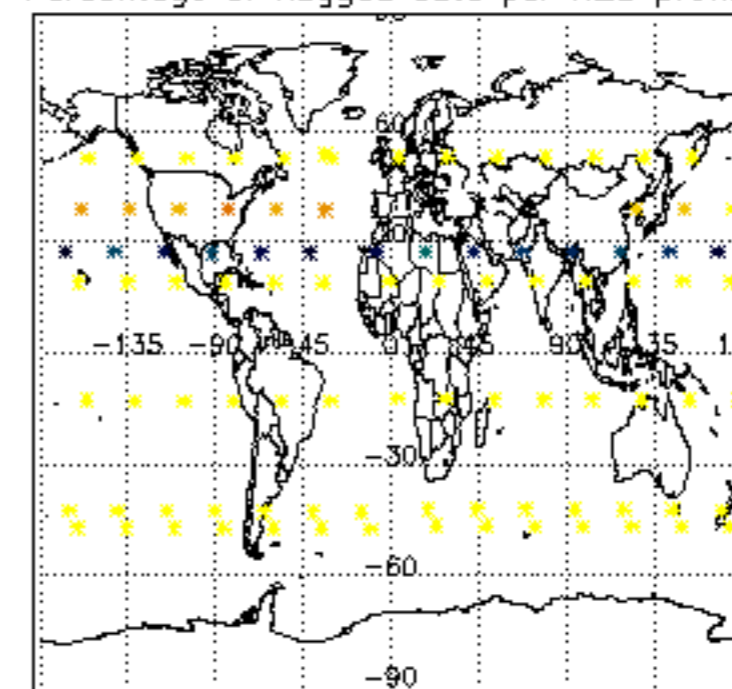
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	03-DEC-2010 00:02:04
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	03-DEC-2010 00:02:04
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	03-DEC-2010 00:02:04



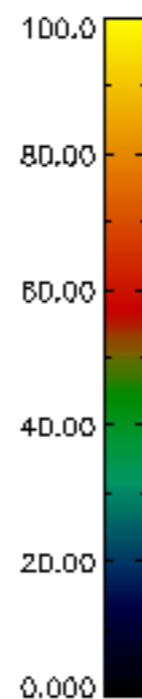
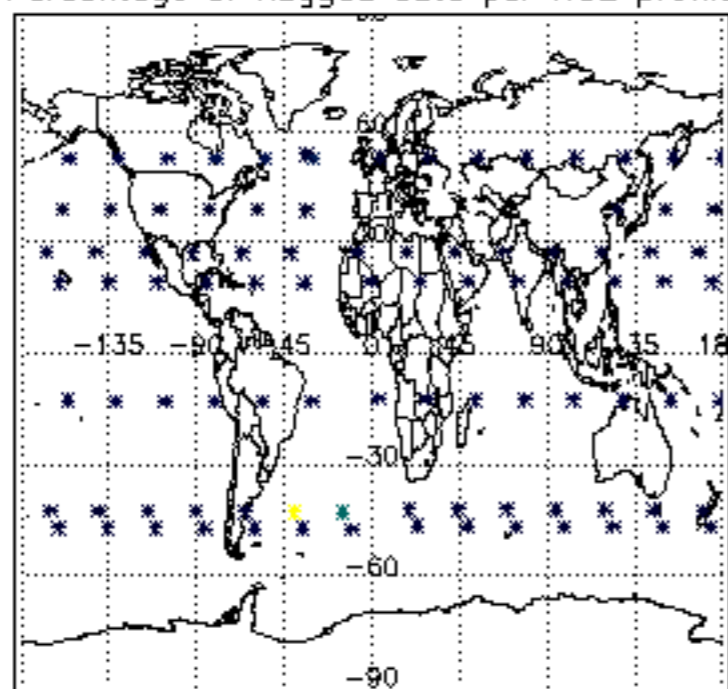
Percentage of flagged data per D3 profile



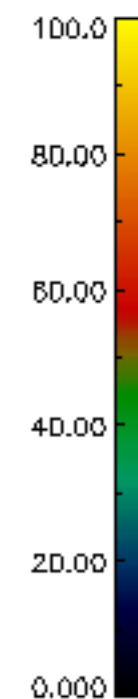
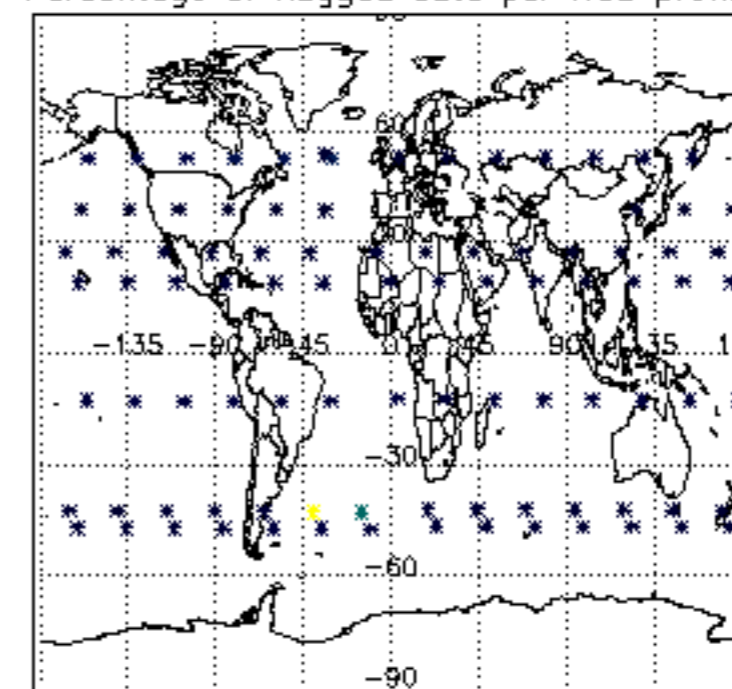
Percentage of flagged data per H2O profile

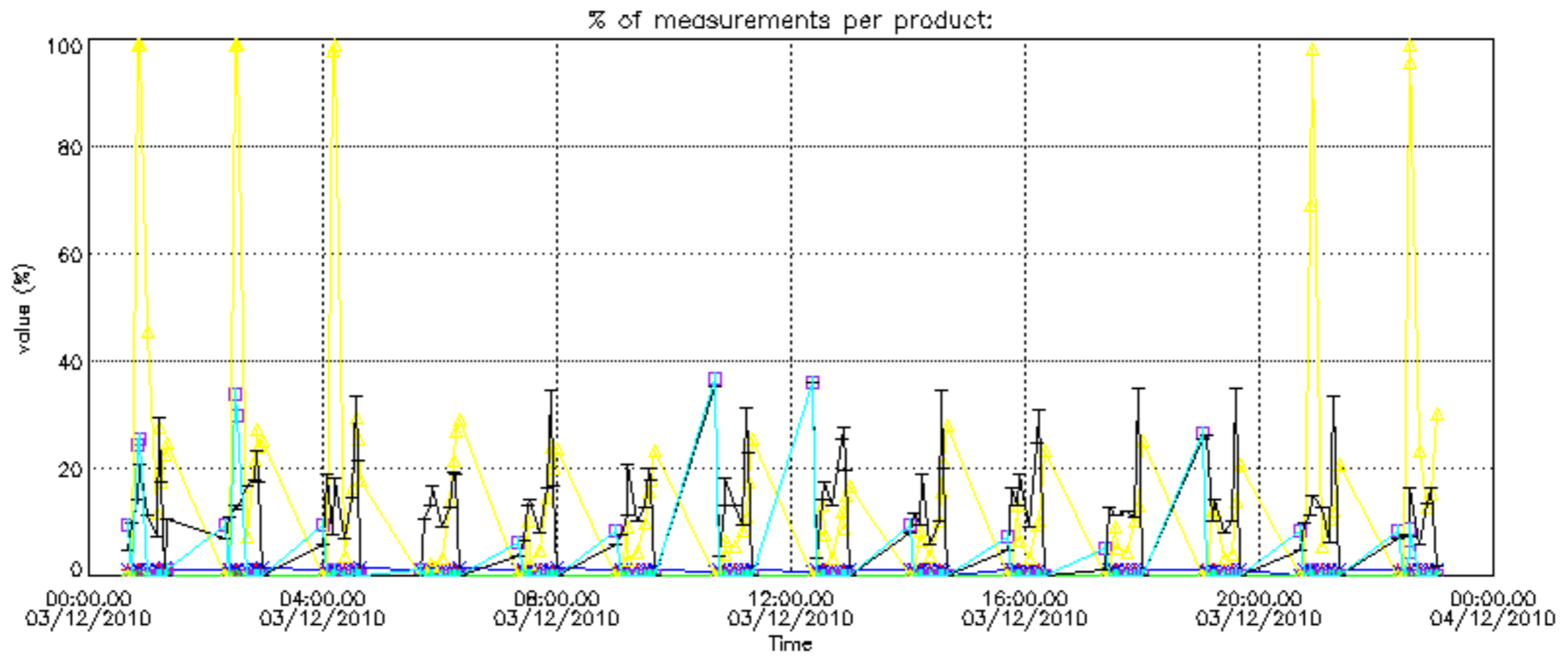


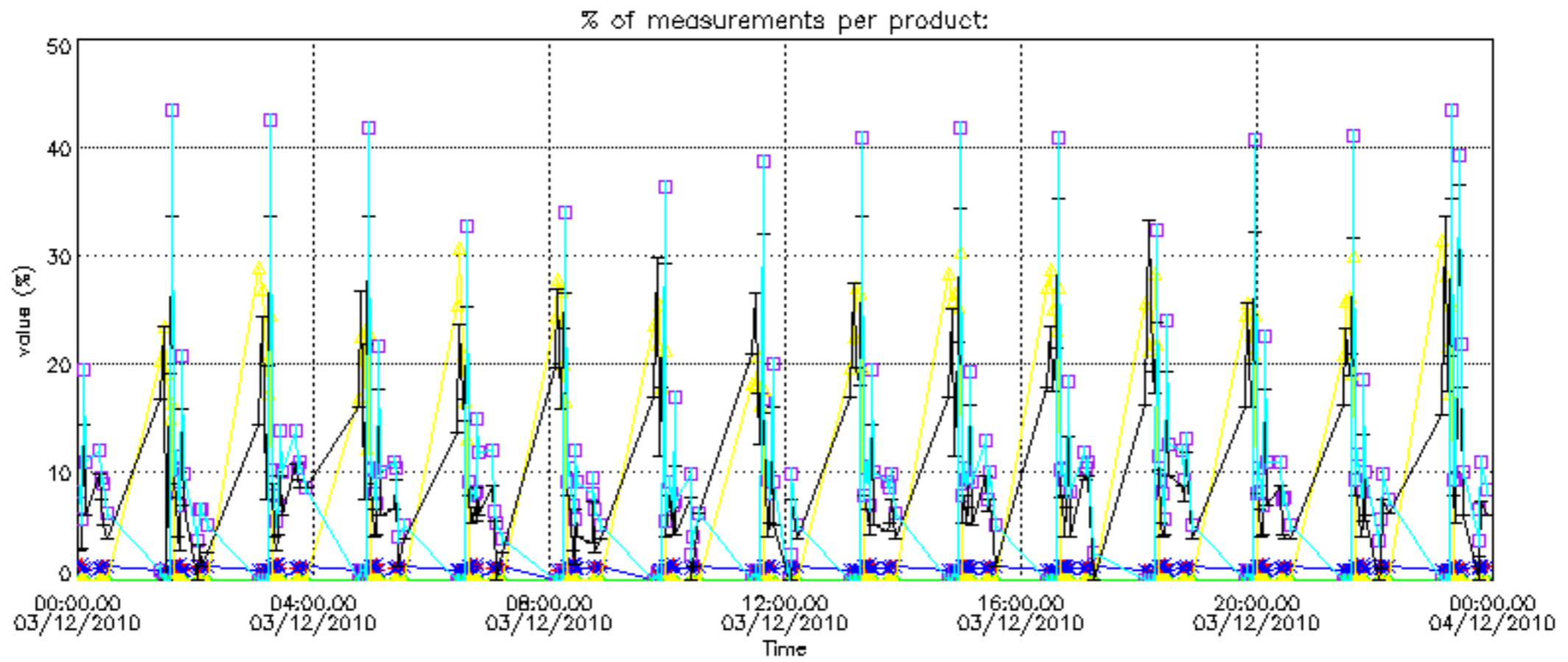
Percentage of flagged data per NO2 profile



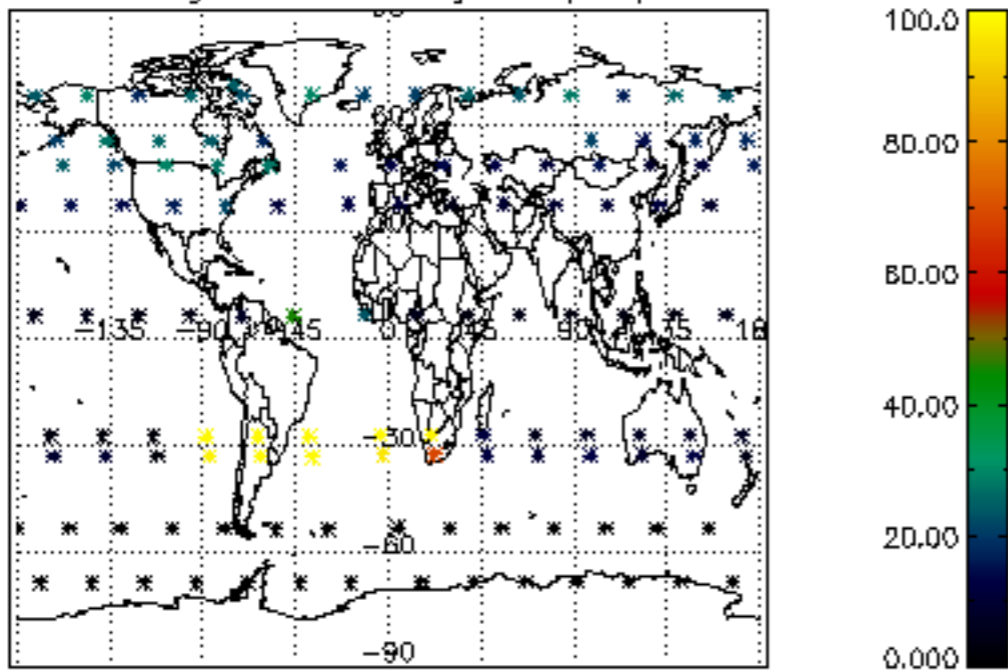
Percentage of flagged data per NO3 profile



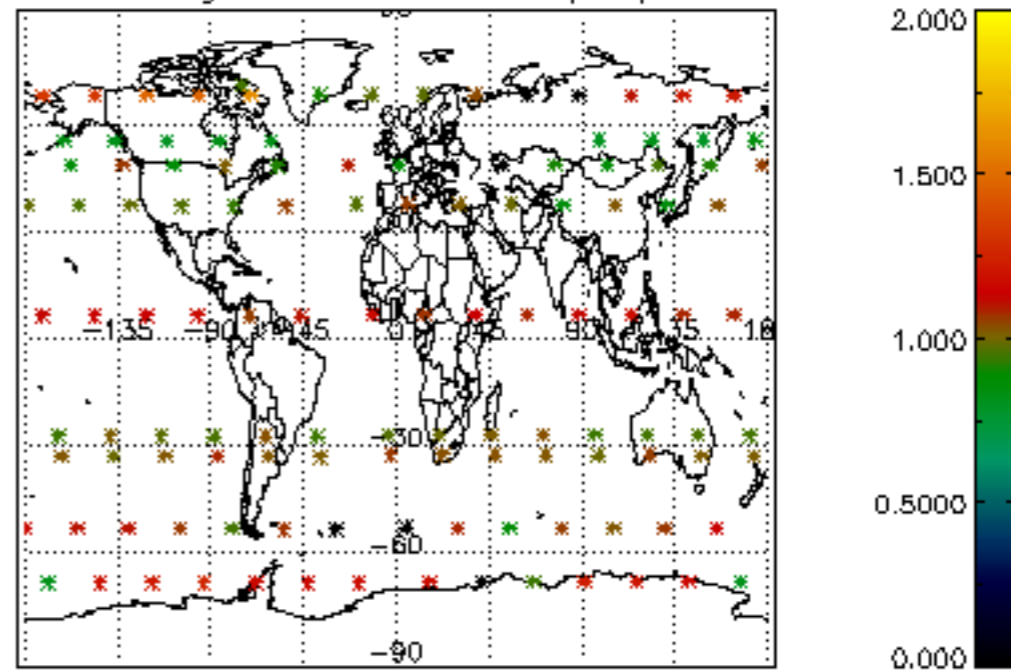




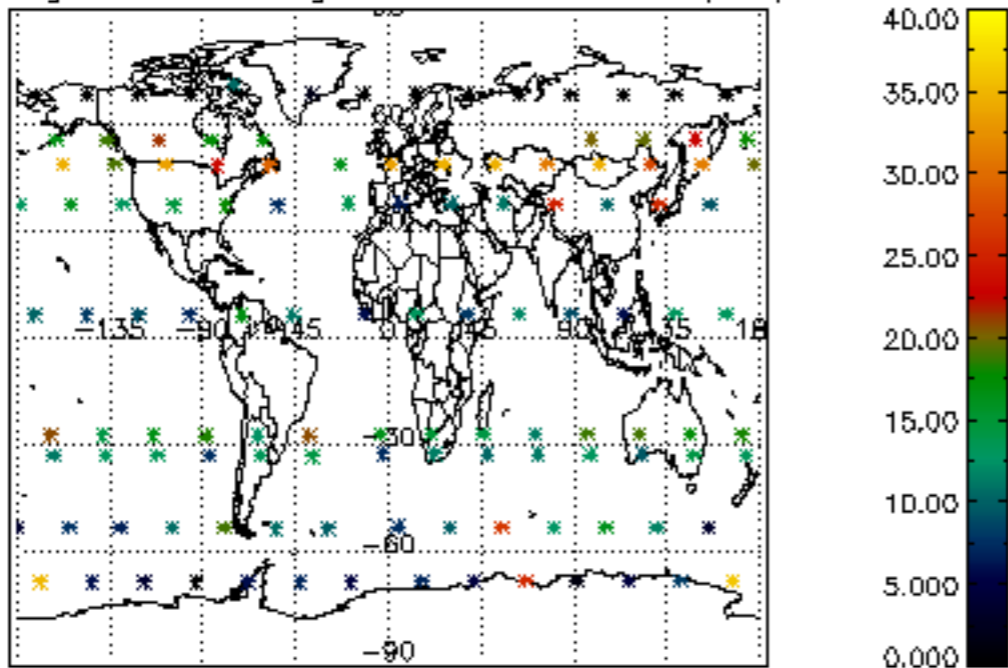
Percentage of cosmic ray hits per profile



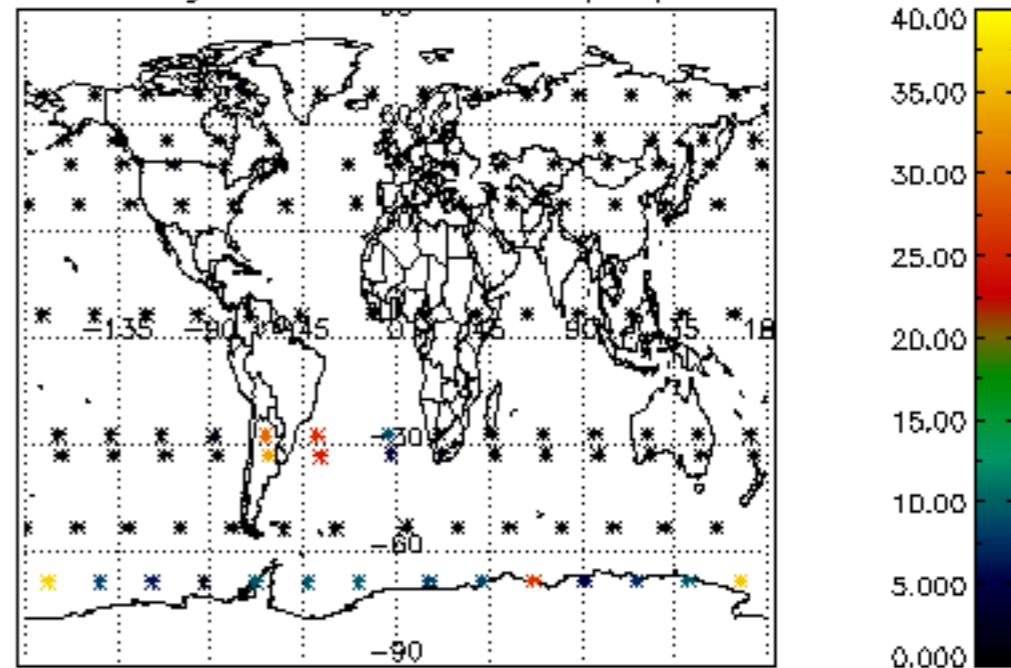
Percentage of datation errors per profile



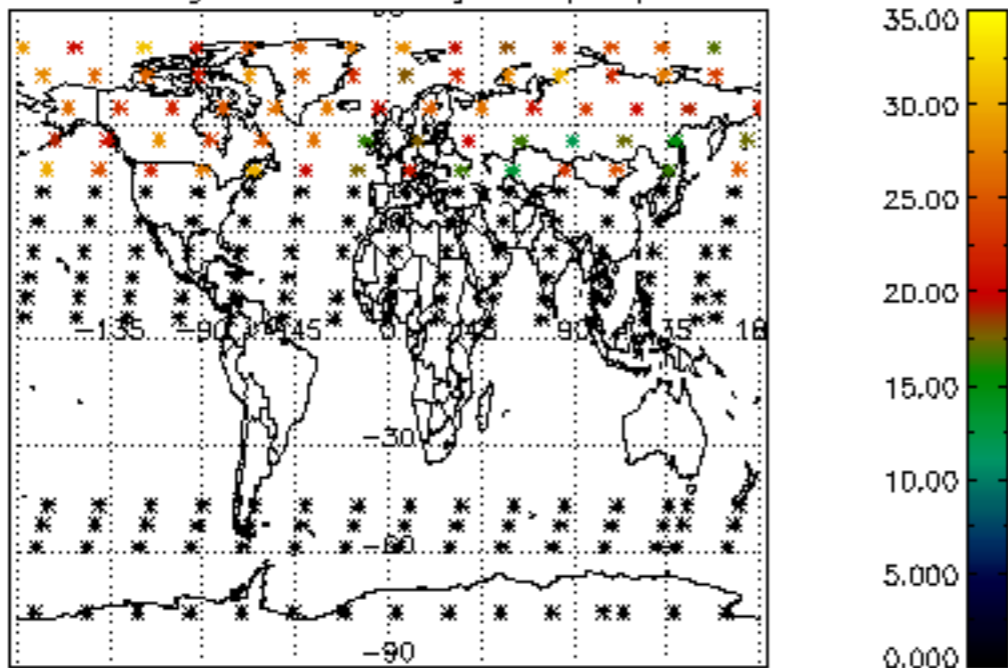
Percentage of star falling outside central band per profile



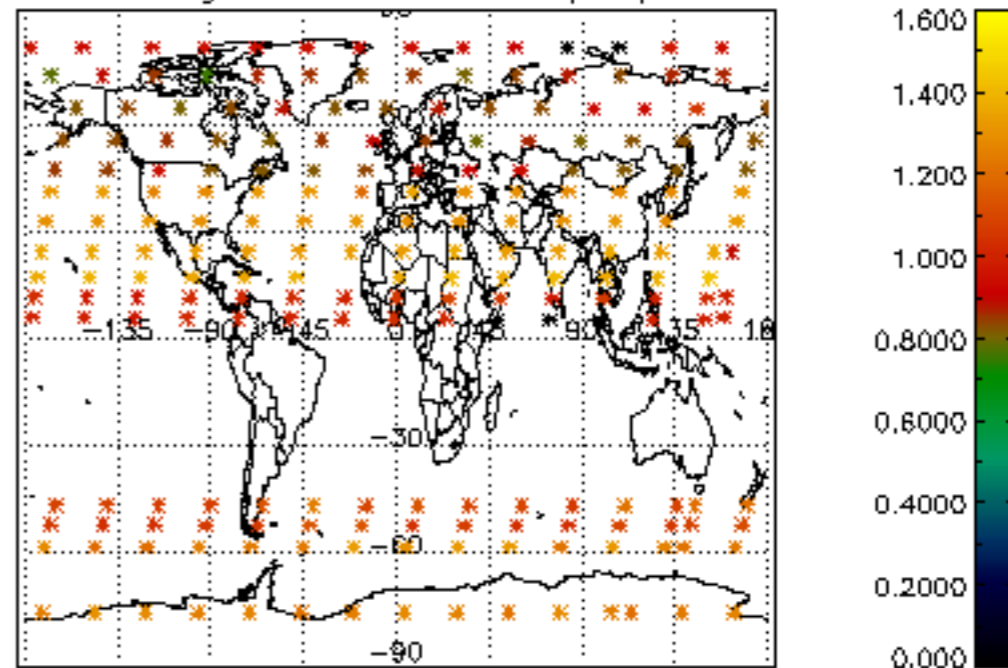
Percentage of saturation errors per profile



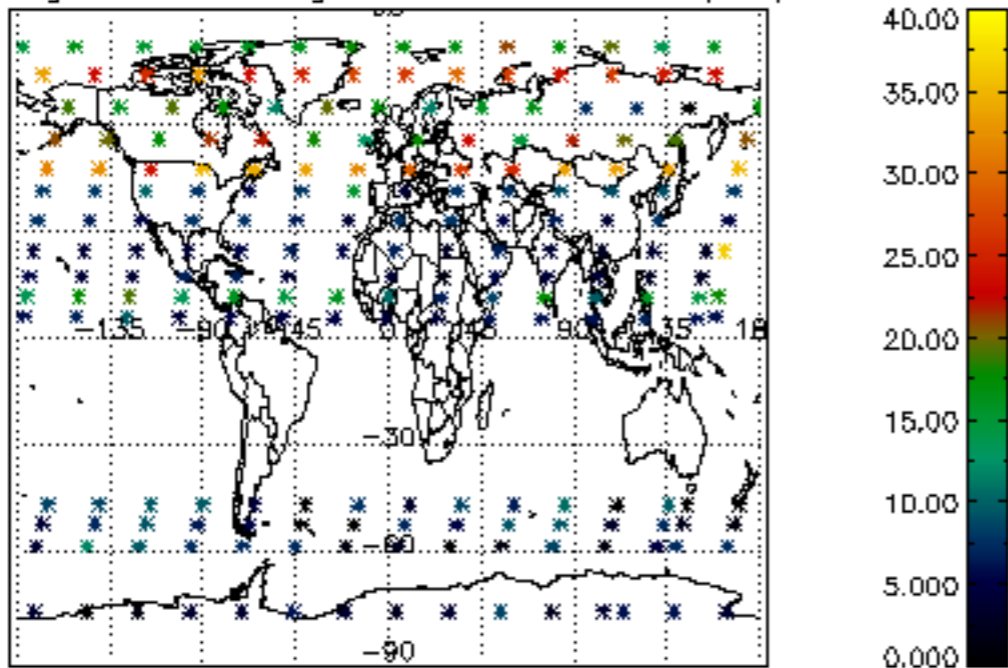
Percentage of cosmic ray hits per profile



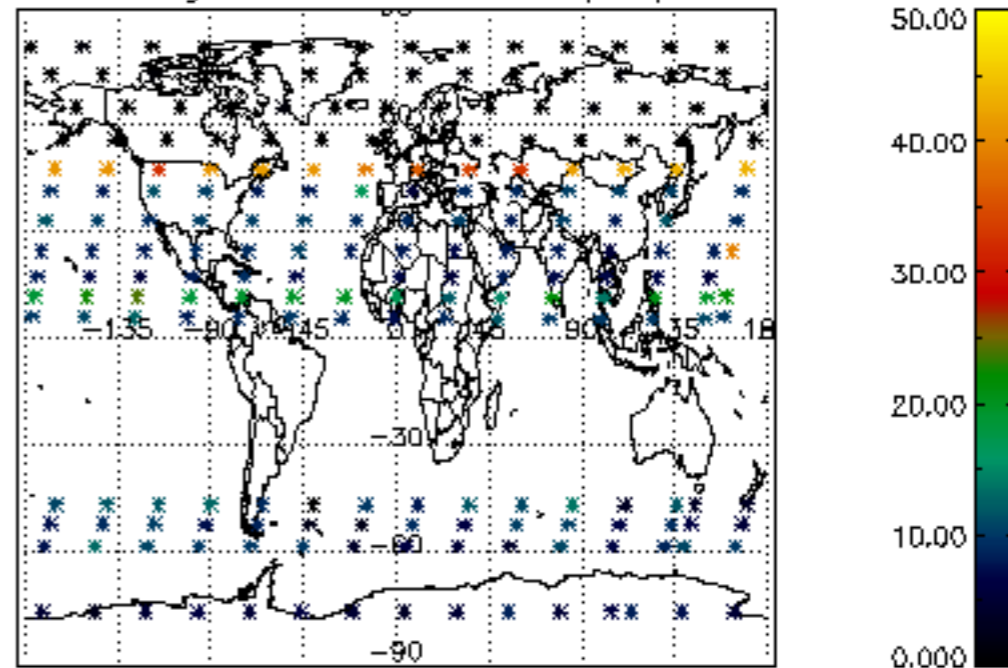
Percentage of datation errors per profile

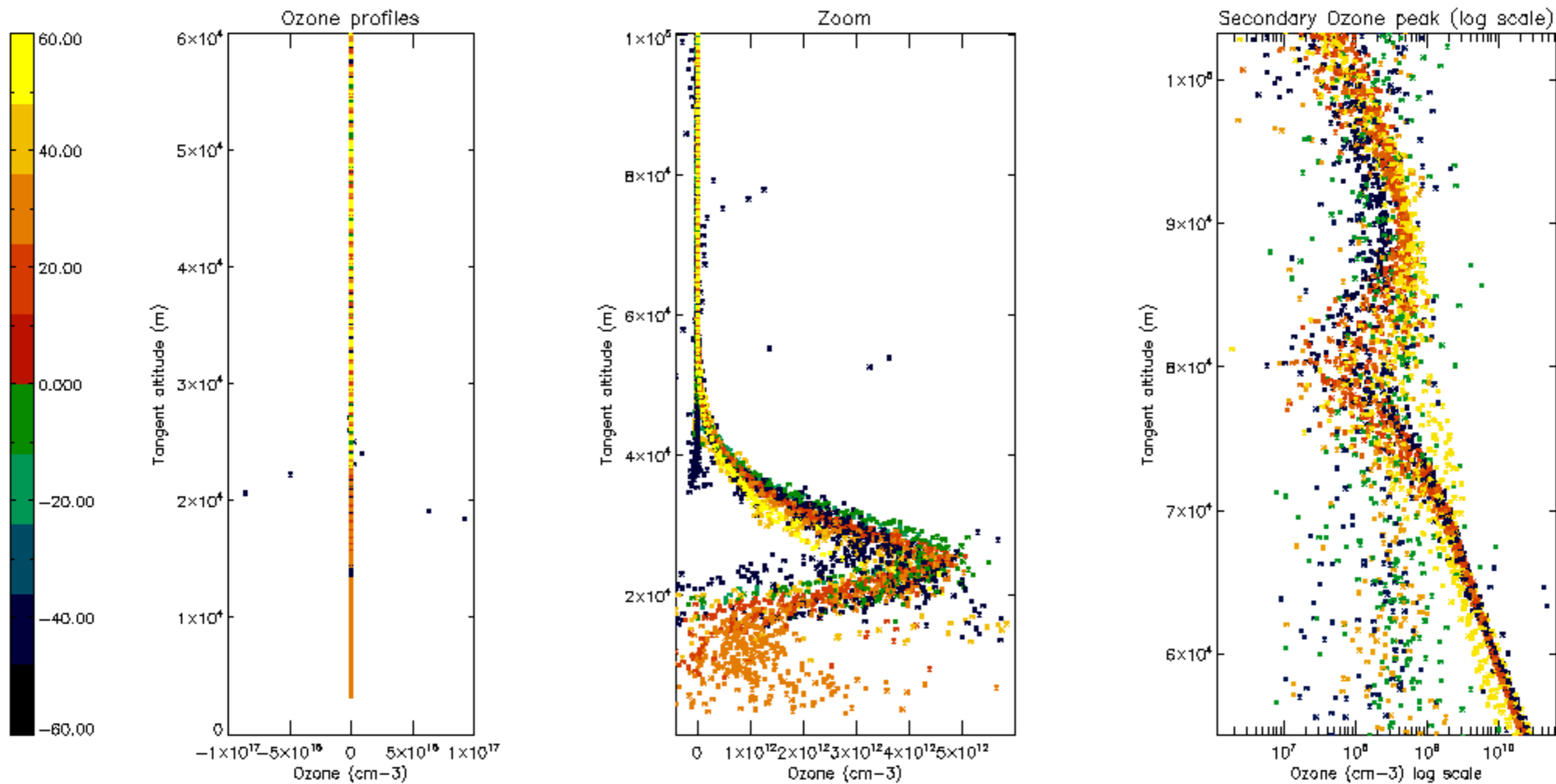


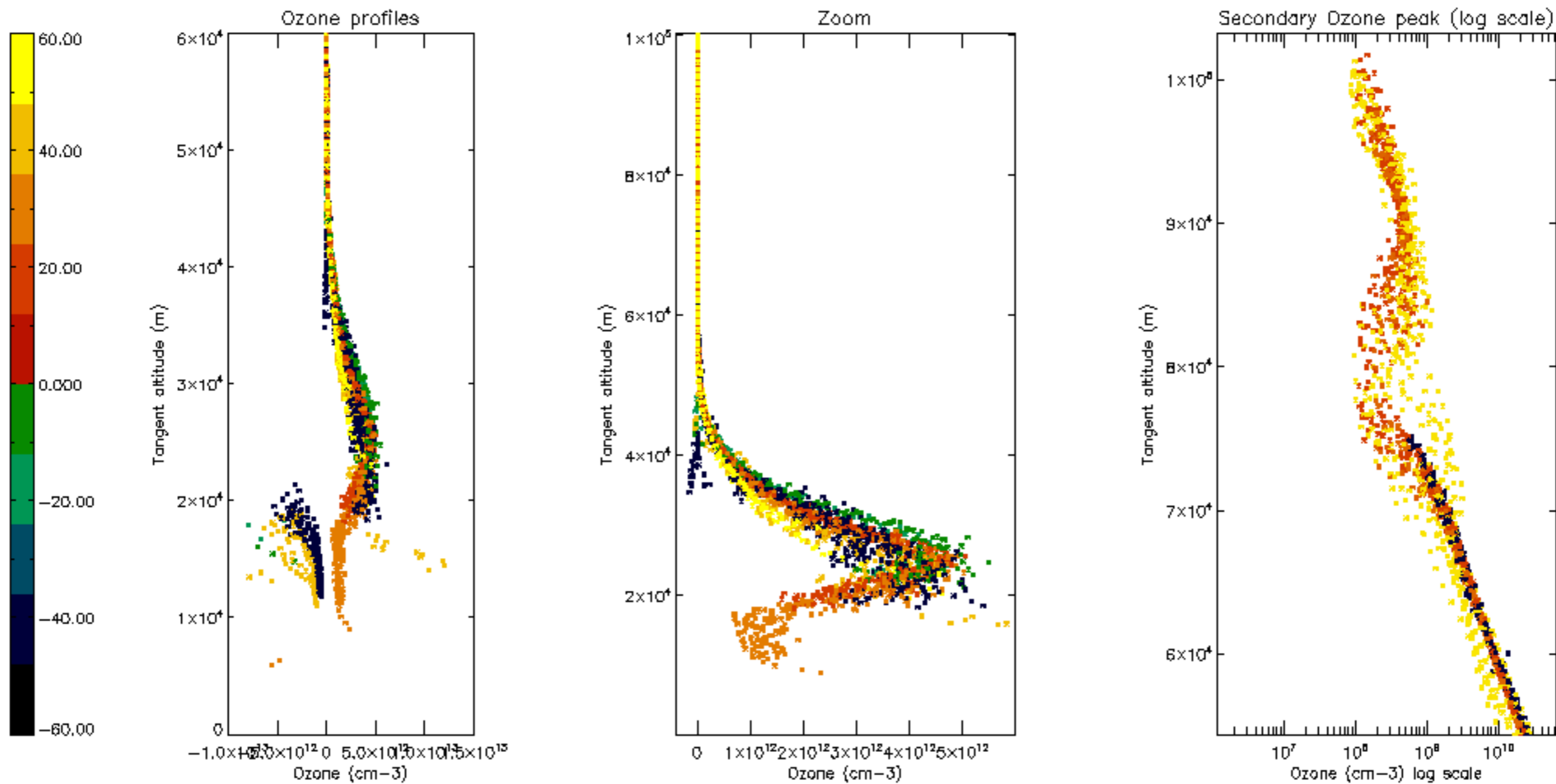
Percentage of star falling outside central band per profile

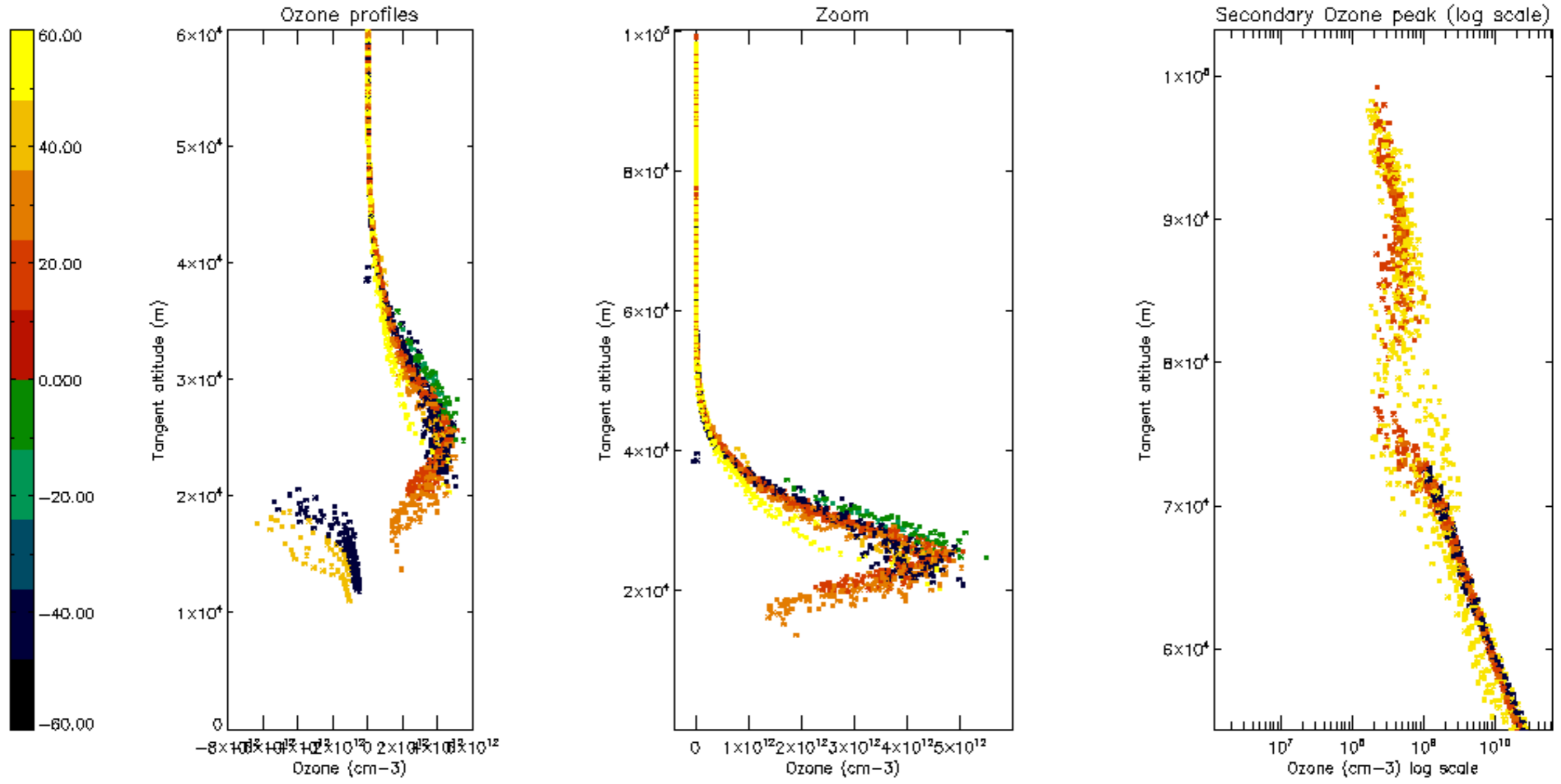


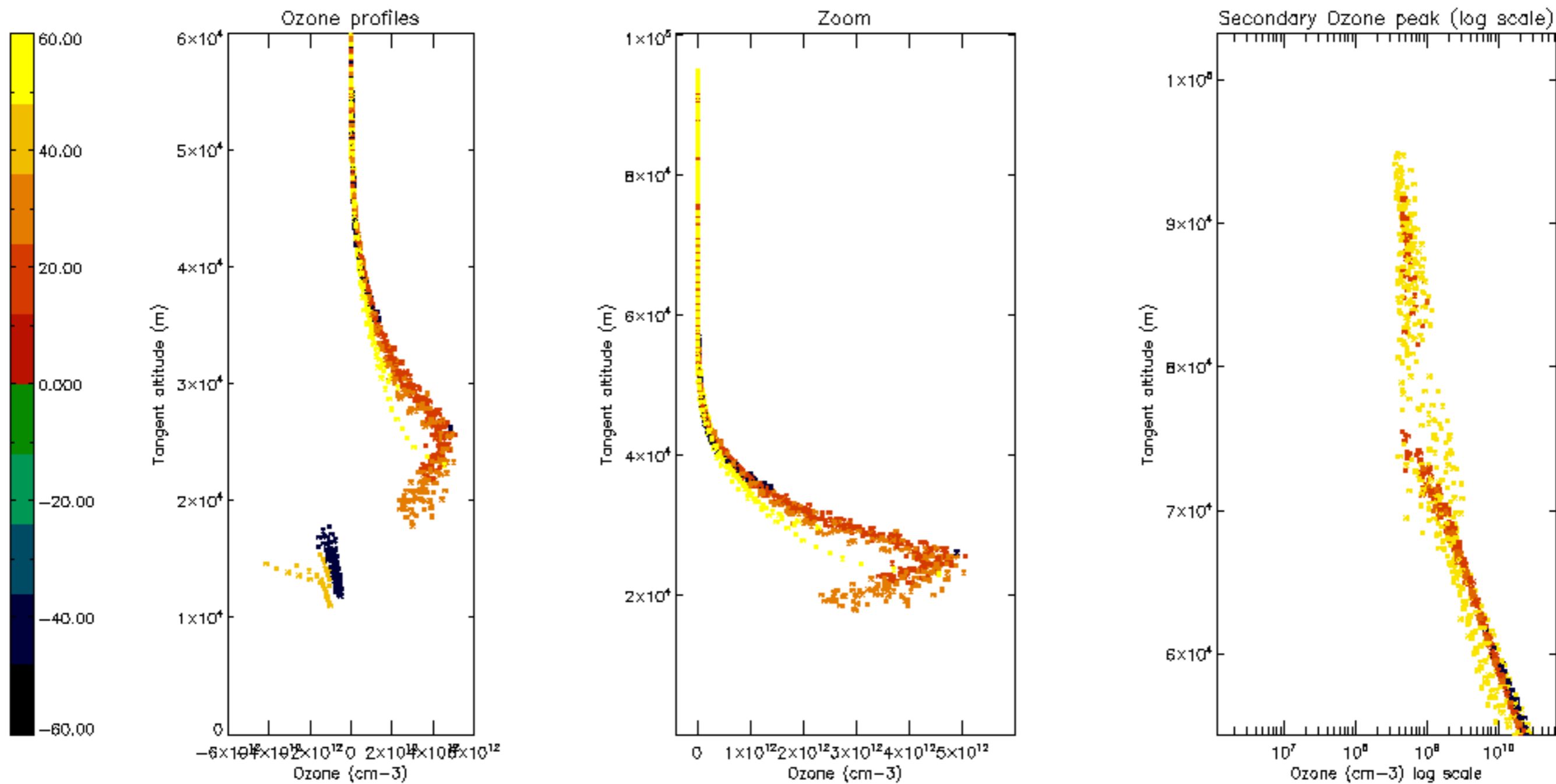
Percentage of saturation errors per profile

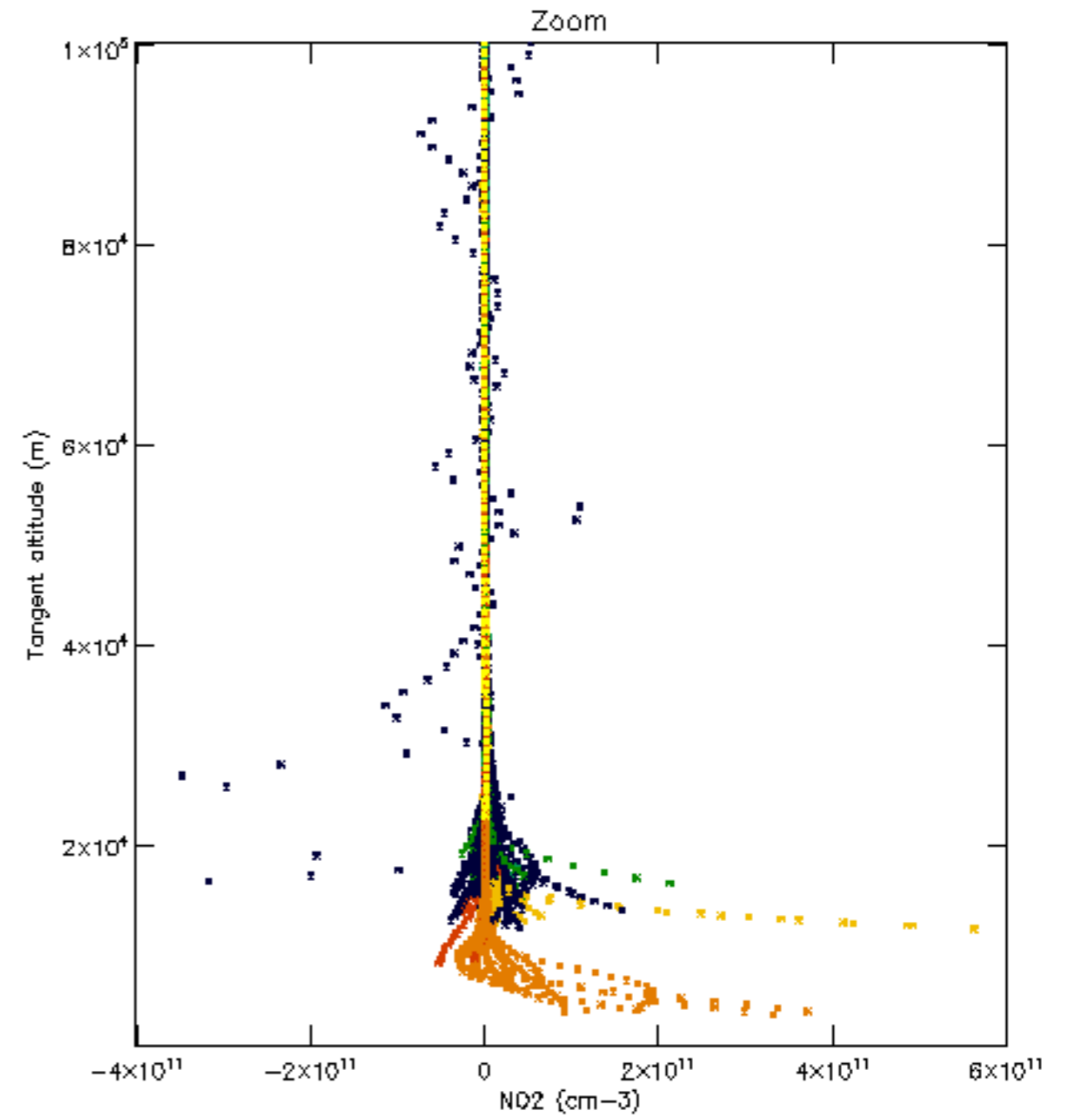
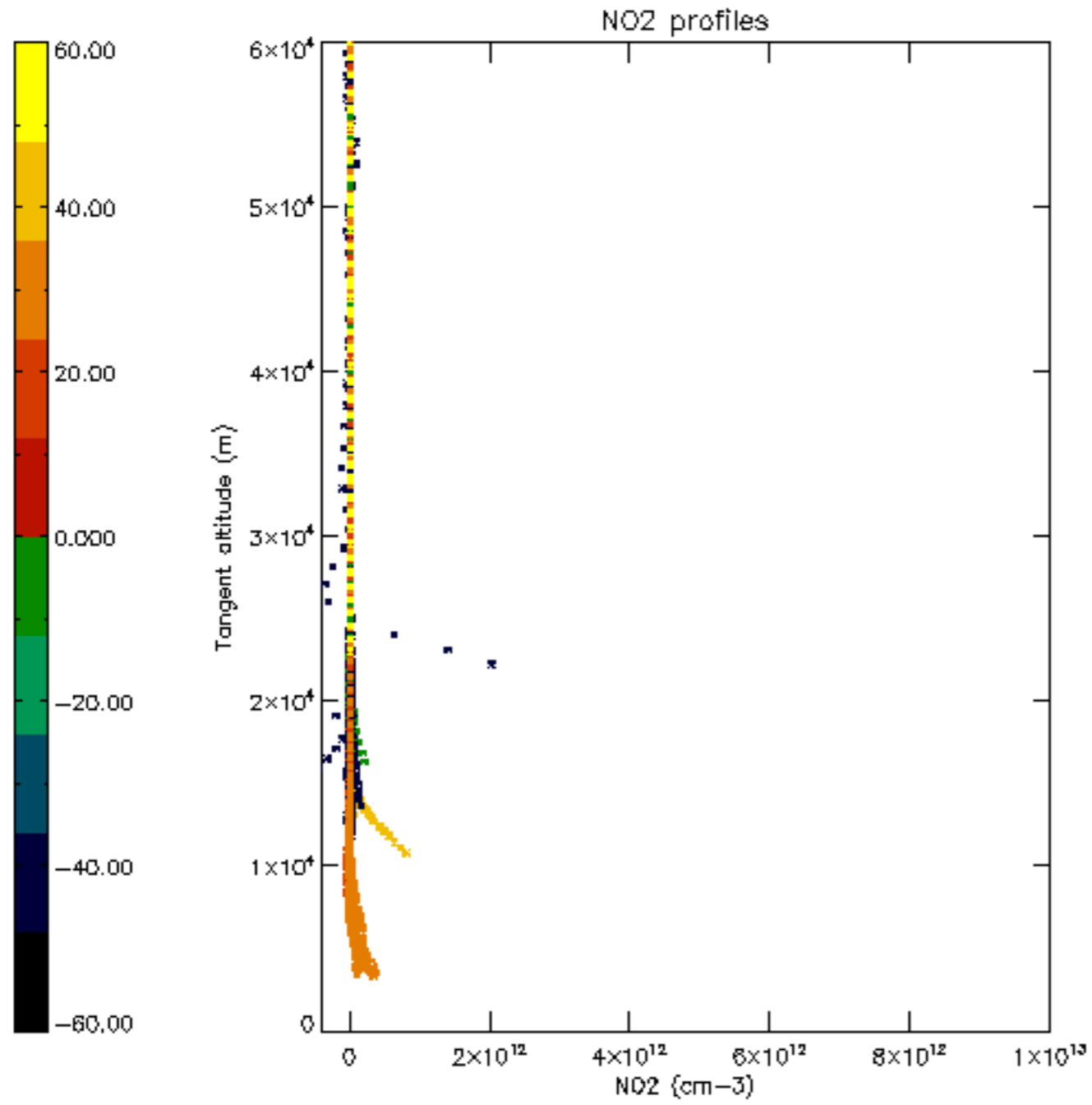


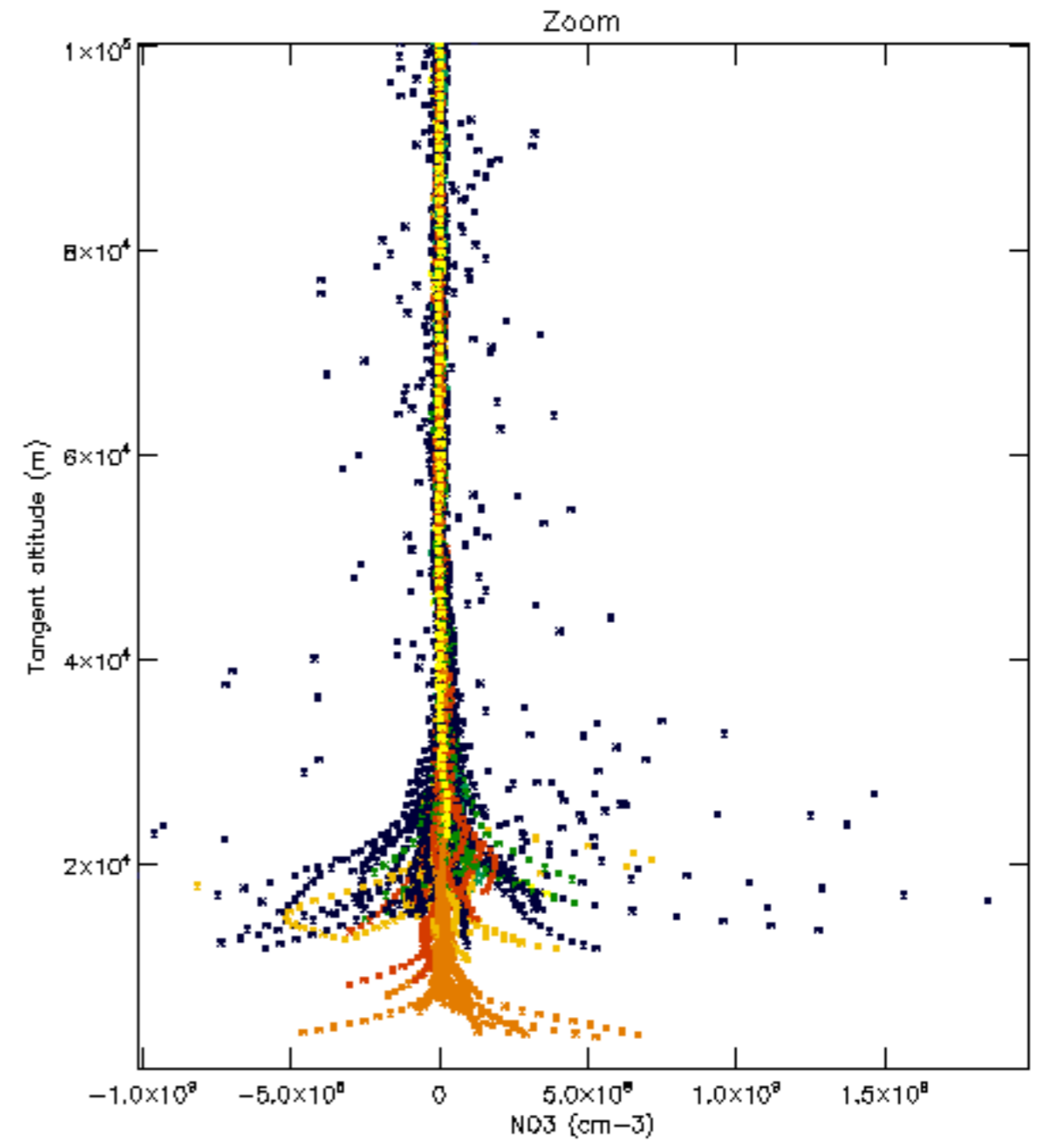
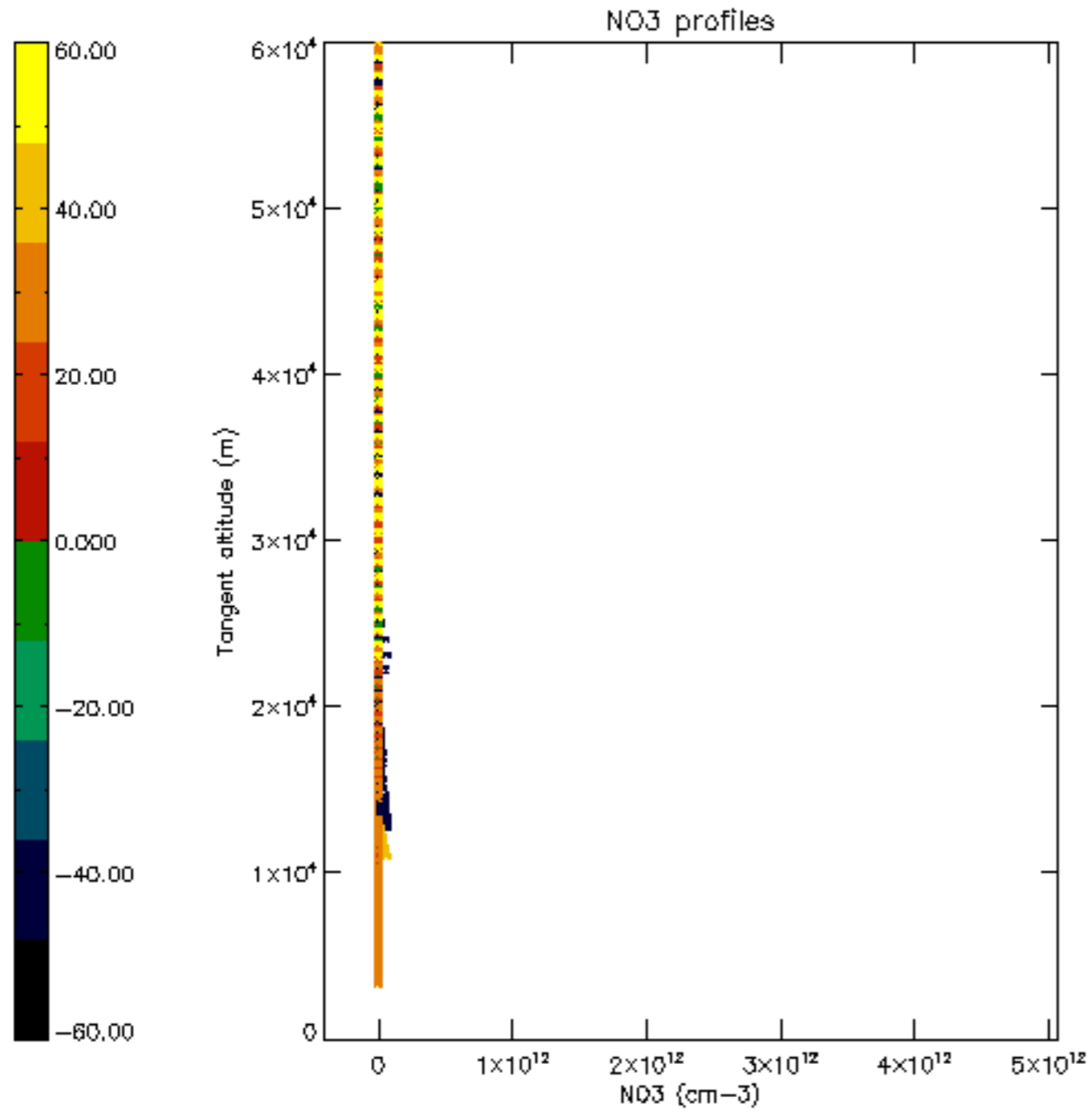


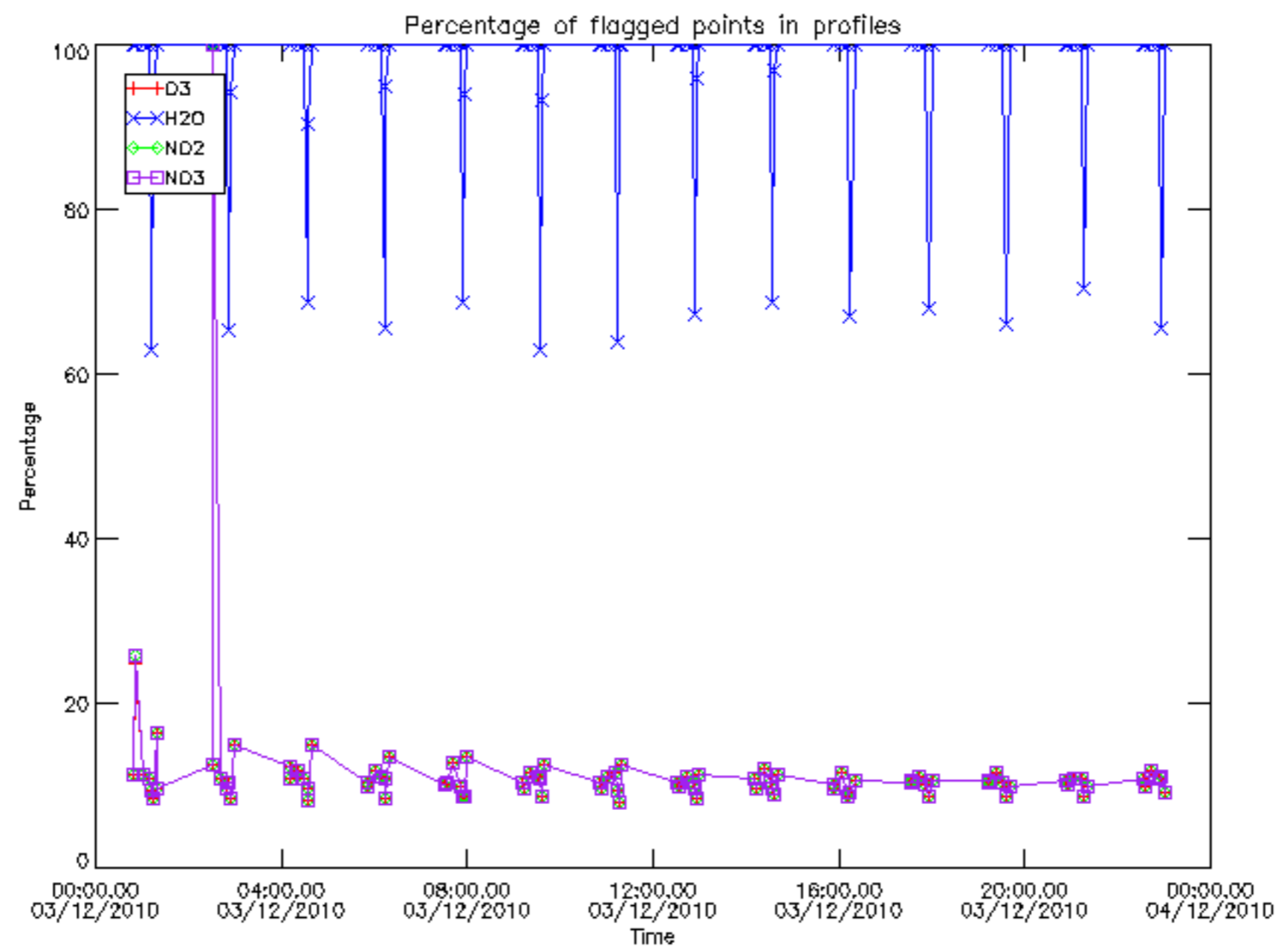




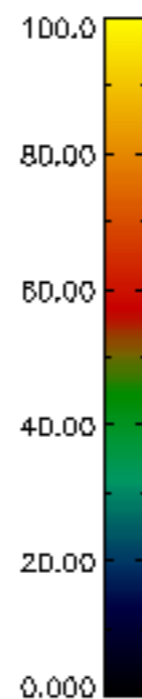
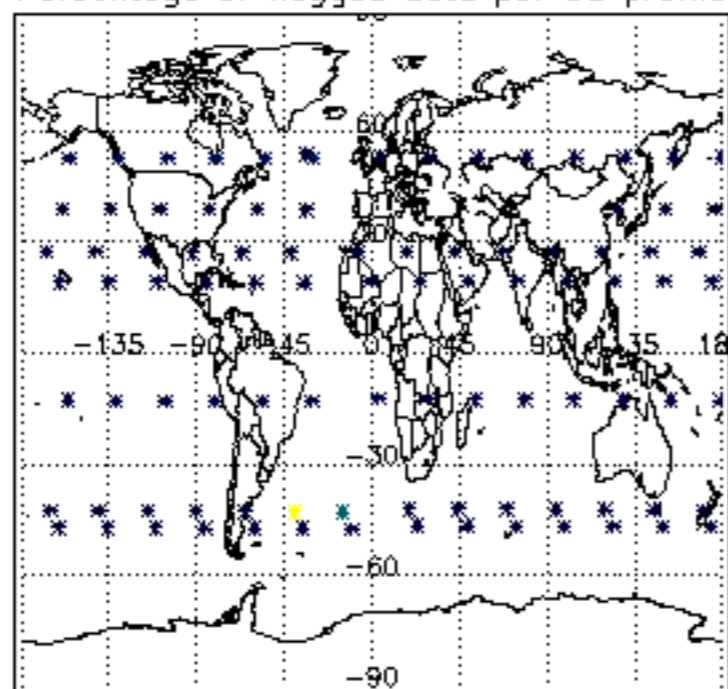




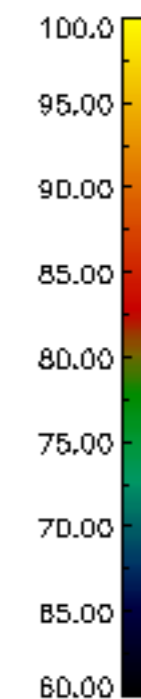
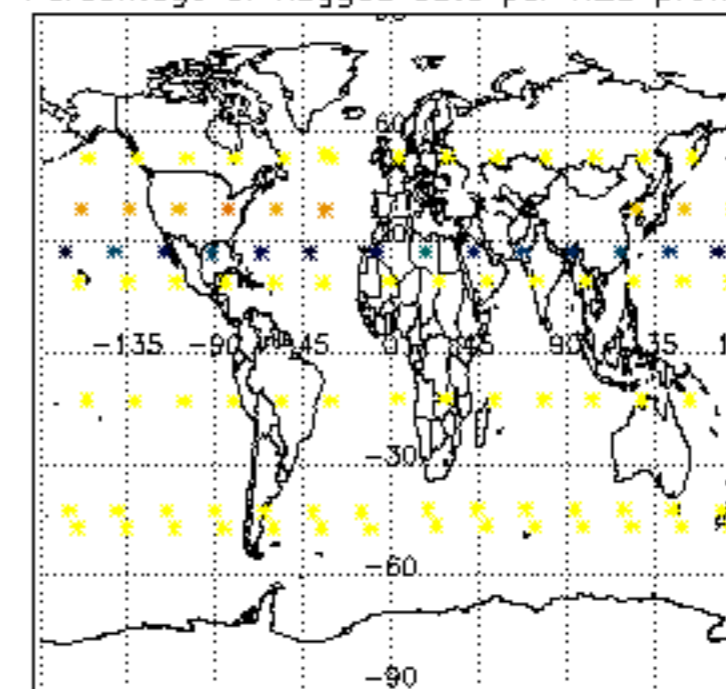




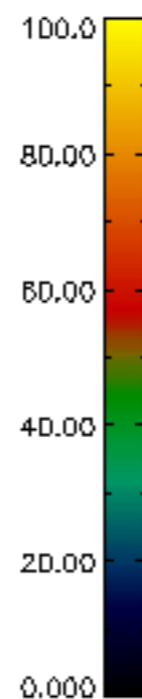
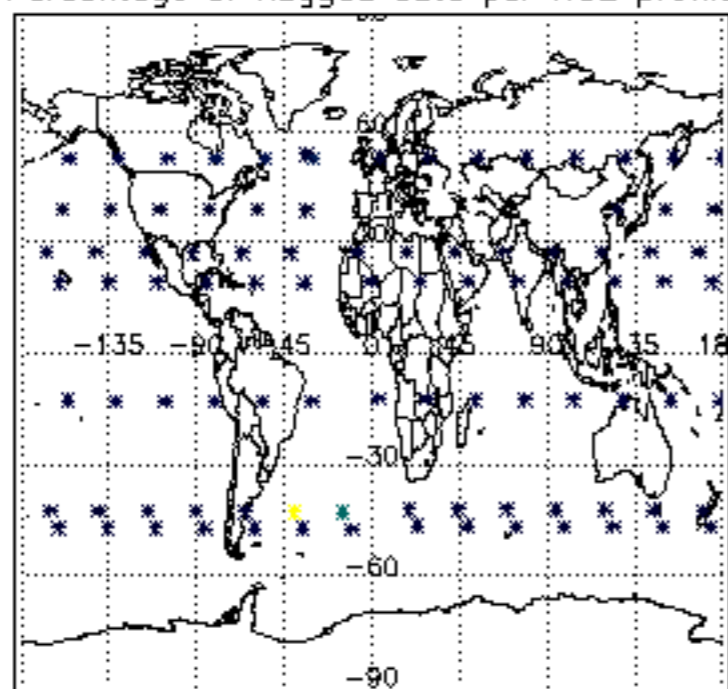
Percentage of flagged data per D3 profile



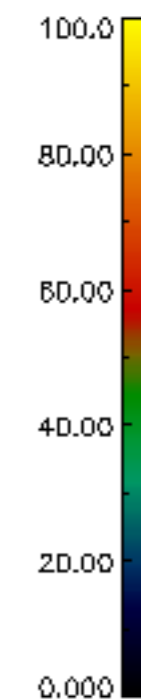
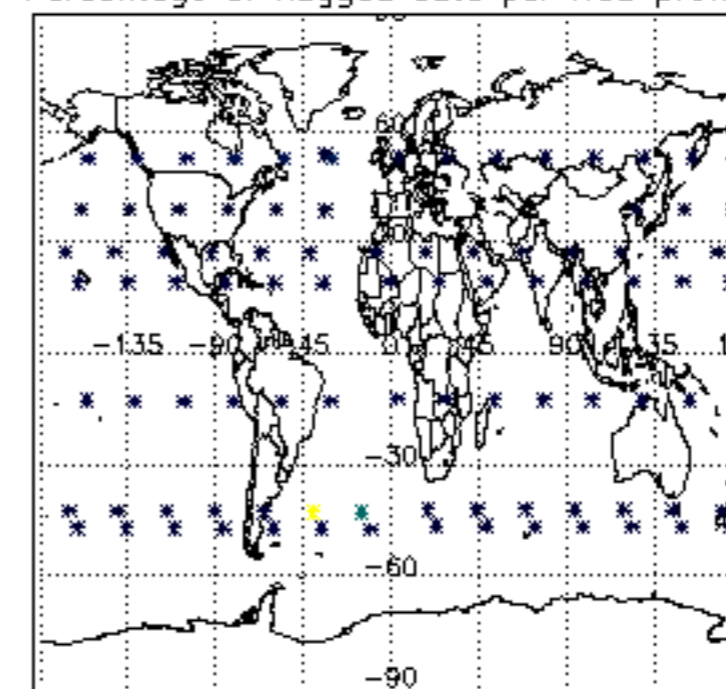
Percentage of flagged data per H2O profile

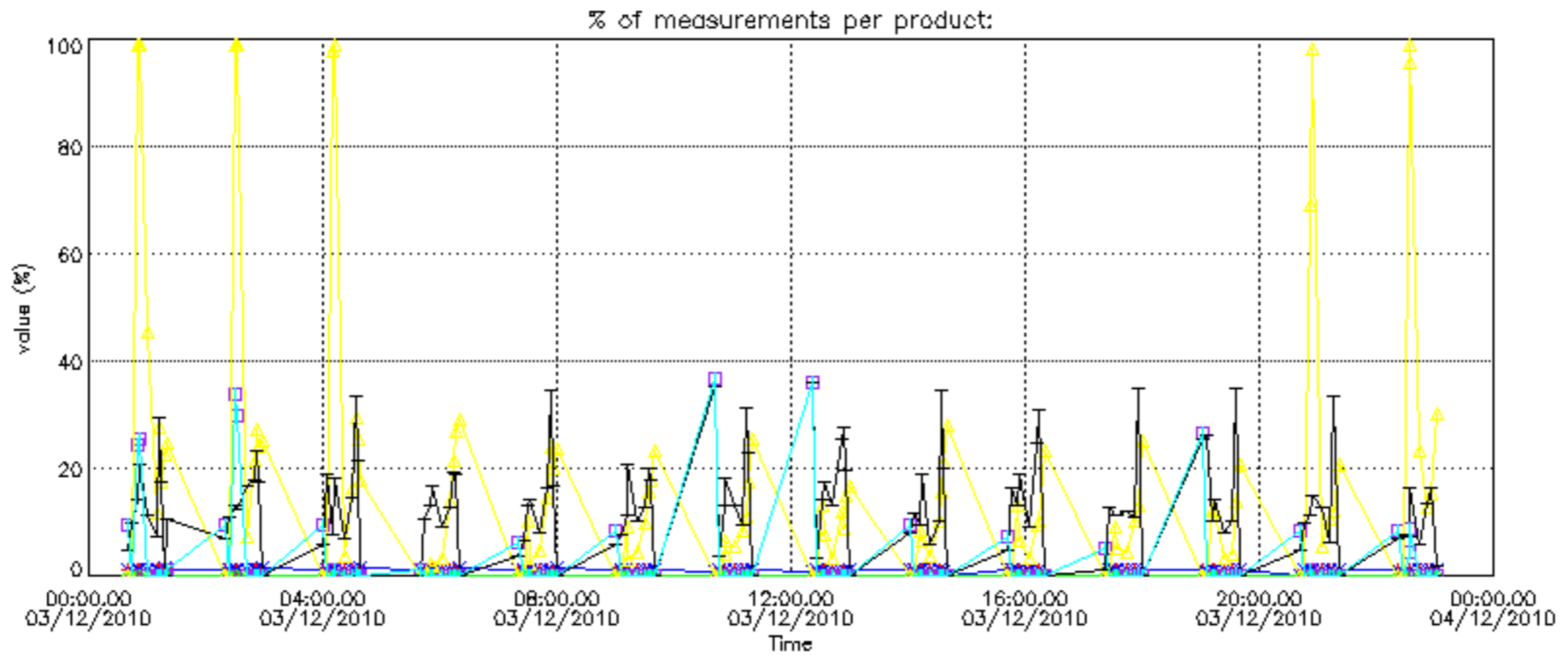


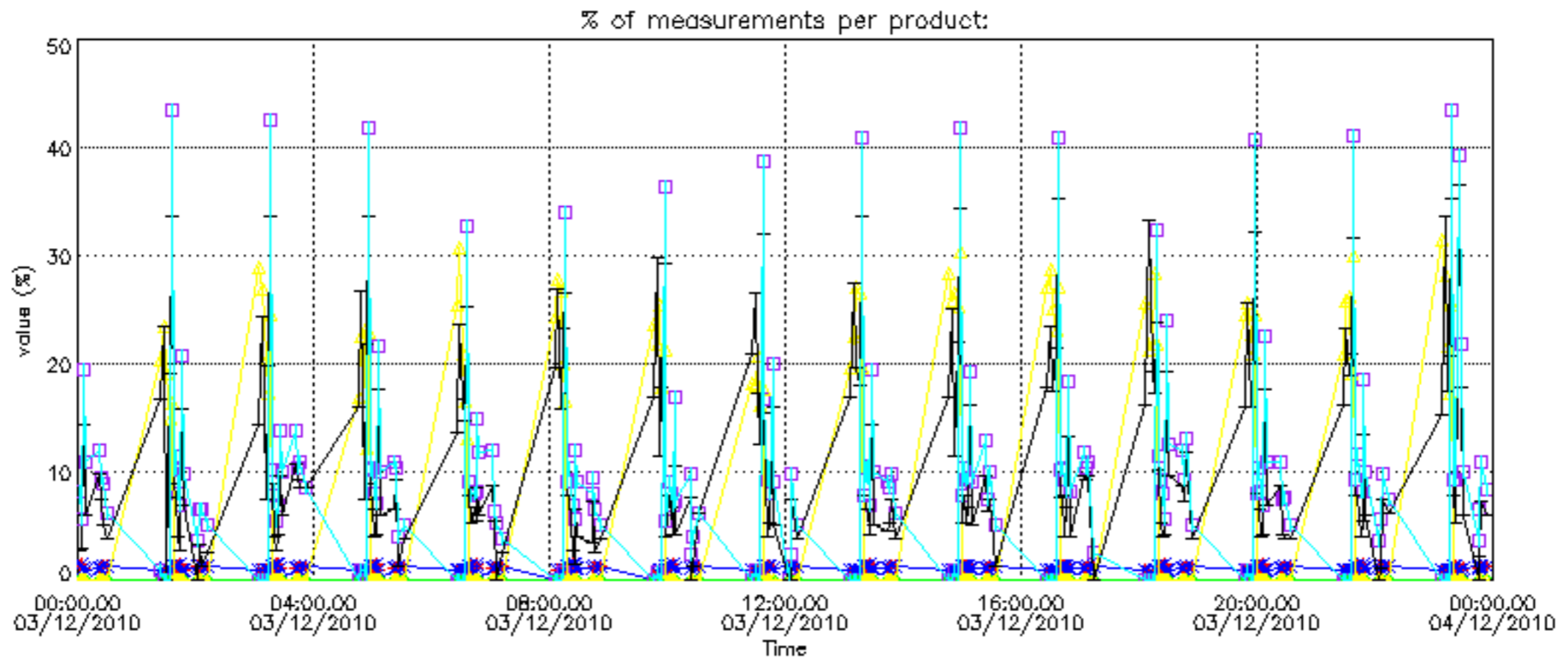
Percentage of flagged data per NO2 profile



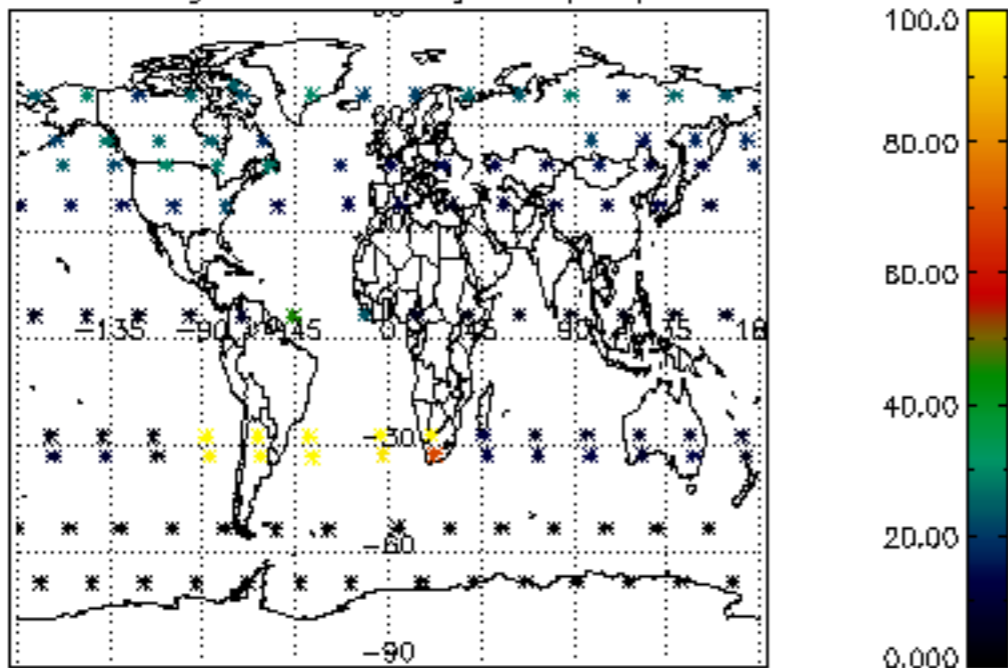
Percentage of flagged data per NO3 profile



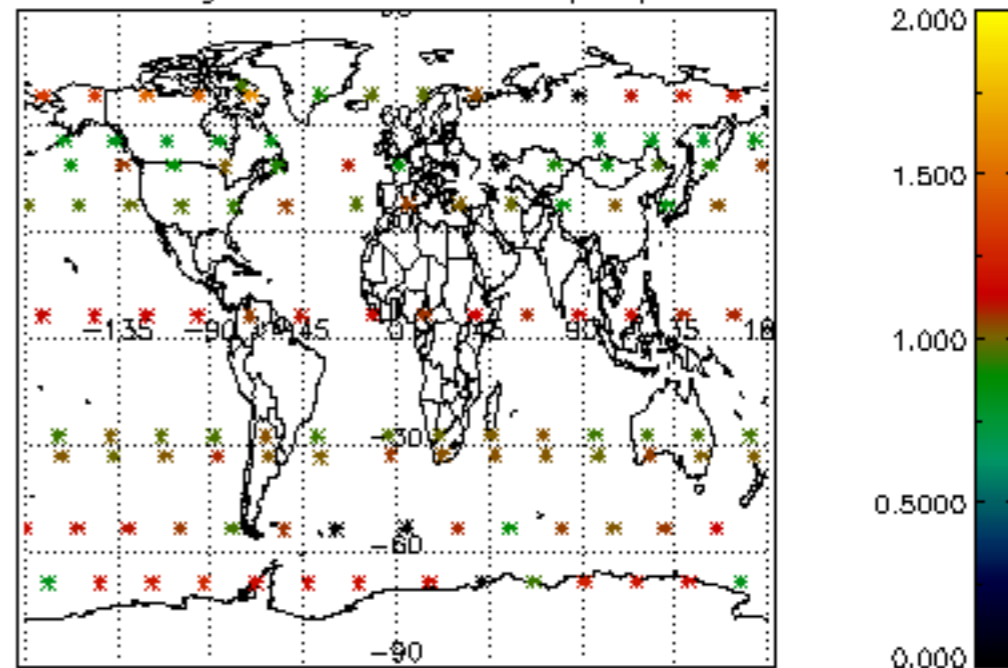




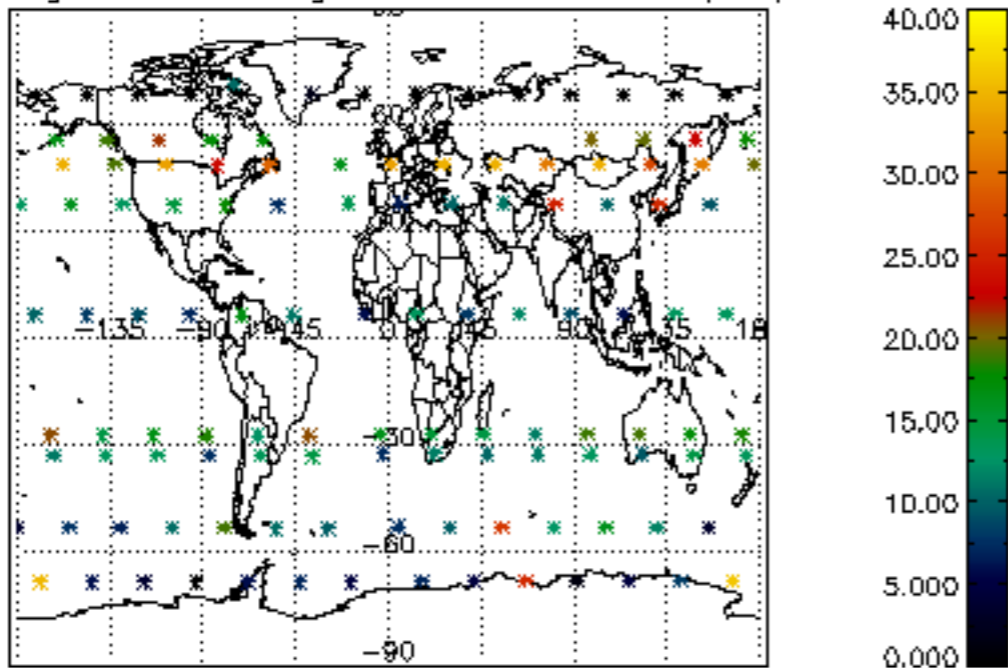
Percentage of cosmic ray hits per profile



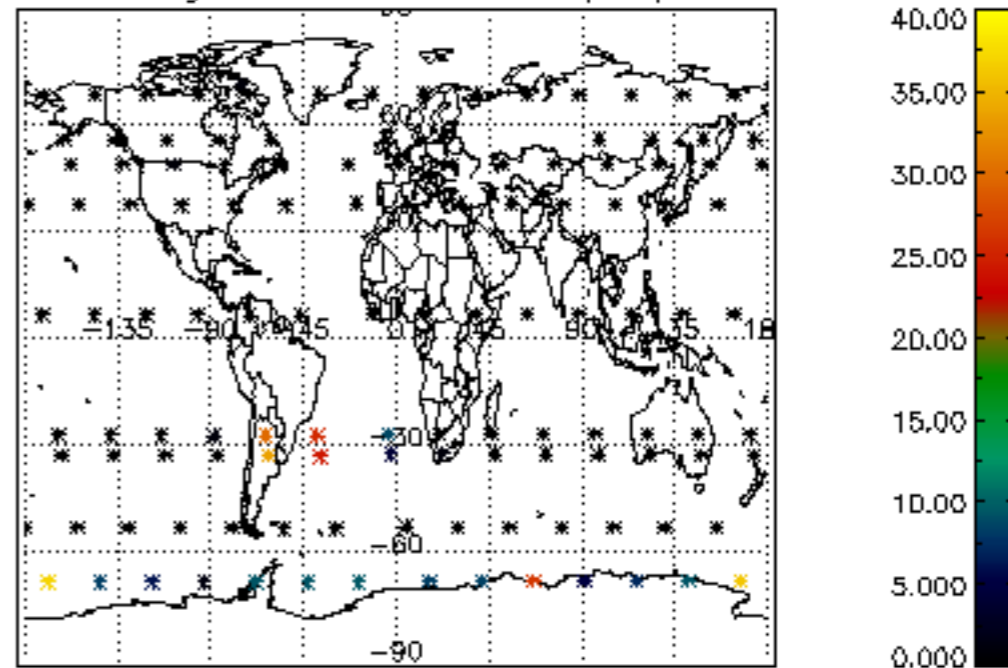
Percentage of datation errors per profile



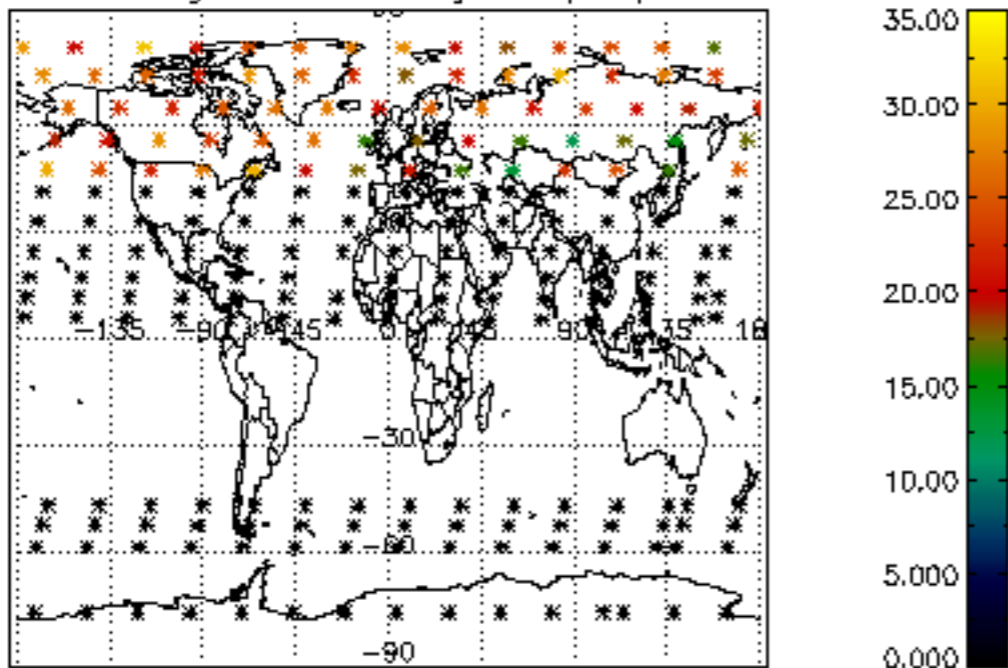
Percentage of star falling outside central band per profile



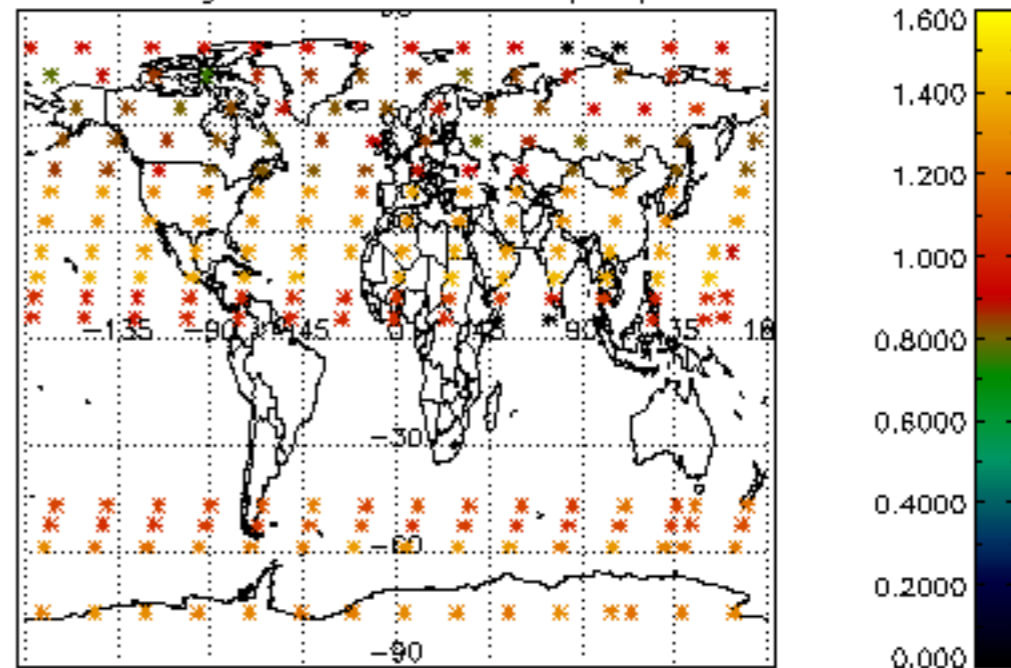
Percentage of saturation errors per profile



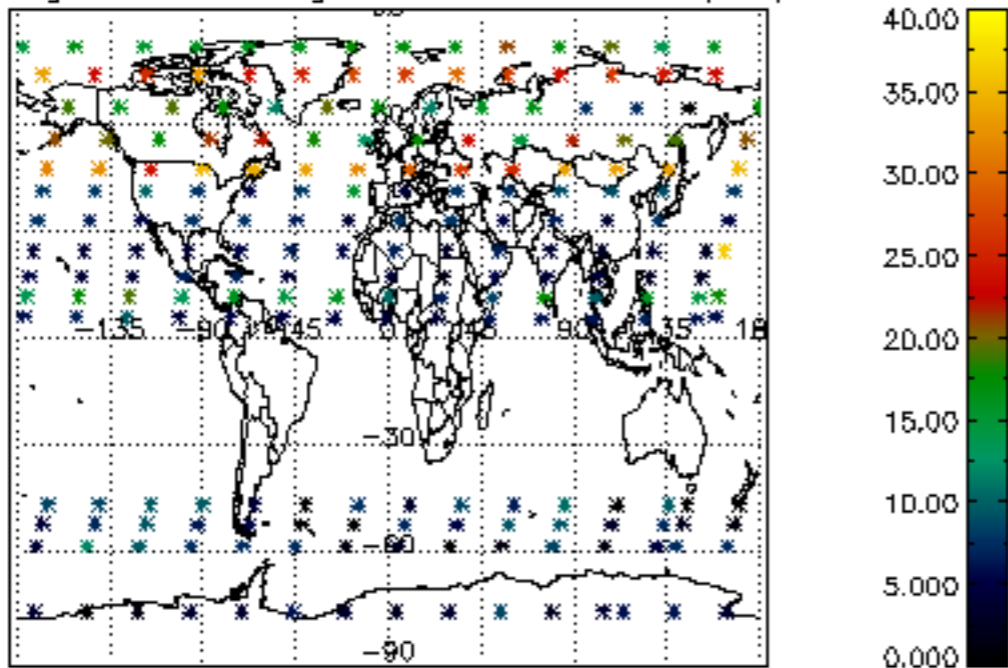
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

