

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

[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](#)

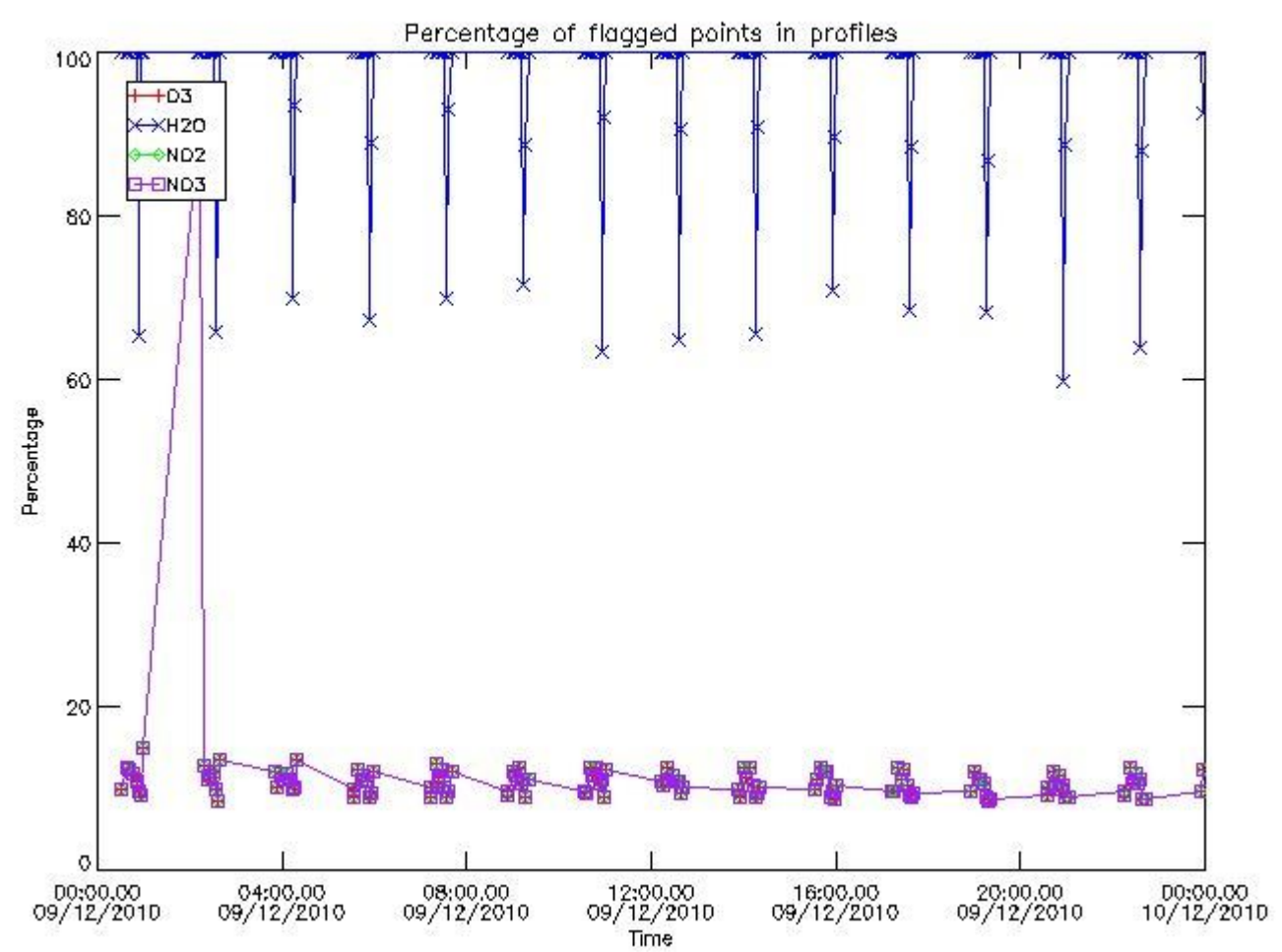
[6. Auxiliary Data Files used for the production reported in section 2](#)

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 16:46:29
Data source version	GOMOS/6.01
Start time of products	09-12-2010 (09DEC2010 00:00:00)
Stop time of products	10-12-2010 (10DEC2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	382
Nb of prods with errors	0

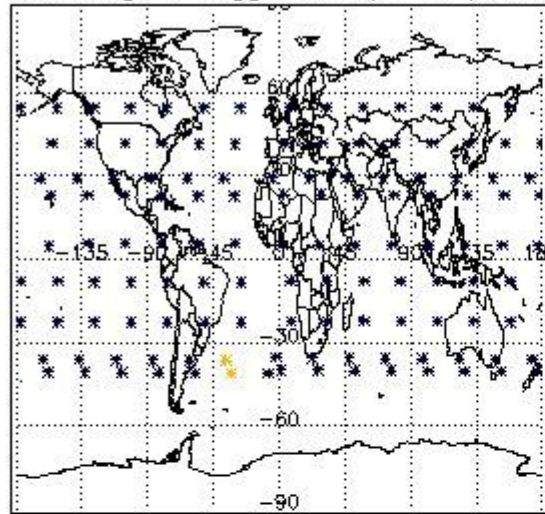
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20101209_000133_000000473097_00174_45878_2349.N1	09-DEC-2010 00:01:33	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	45878	No
2	GOM_NL__2PRFIN20101209_000304_000000503097_00174_45878_2350.N1	09-DEC-2010 00:03:04	Bright	49.500	82	48Bet UMa	2.3650	10600.	99	45878	No
3	GOM_NL__2PRFIN20101209_000517_000000423097_00174_45878_2351.N1	09-DEC-2010 00:05:17	Bright	41.500	32	77Eps UMa	1.7630	11000.	83	45878	No
4	GOM_NL__2PRFIN20101209_000736_000000403097_00174_45878_2352.N1	09-DEC-2010 00:07:36	Bright	40.000	39	85Eta UMa	1.8540	24000.	80	45878	No
5	GOM_NL__2PRFIN20101209_001107_000000413097_00174_45878_2353.N1	09-DEC-2010 00:11:07	Bright	41.000	152	12Alp2CVn	2.8900	11000.	82	45878	No
6	GOM_NL__2PRFIN20101209_001655_000000373097_00174_45878_2354.N1	09-DEC-2010 00:16:55	Bright	36.500	111	8Eta Boo	2.6800	6000.0	73	45878	No
7	GOM_NL__2PRFIN20101209_002022_000000663097_00174_45878_2355.N1	09-DEC-2010 00:20:22	Bright	66.000	138	47Eps Vir	2.8280	4700.0	132	45878	No
8	GOM_NL__2PRFIN20101209_002509_000000533097_00174_45878_2356.N1	09-DEC-2010 00:25:09	Twilight	52.500	121	29Gam Vir	2.7400	7200.0	105	45878	No
9	GOM_NL__2PRFIN20101209_002940_000000463097_00174_45878_2357.N1	09-DEC-2010 00:29:40	Twilight	46.000	169	46Gam Hya	2.9910	4700.0	92	45878	No
10	GOM_NL__2PRFIN20101209_003115_000000523097_00174_45878_2358.N1	09-DEC-2010 00:31:15	Dark	51.500	100	4Gam Crv	2.5800	13100.	103	45878	No
11	GOM_NL__2PRFIN20101209_003837_000000413097_00174_45878_2359.N1	09-DEC-2010 00:38:37	Dark	41.000	99	Del Cen	2.5750	26000.	82	45878	No
12	GOM_NL__2PRFIN20101209_004205_000000463097_00175_45879_2353.N1	09-DEC-2010 00:42:05	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	45879	No
13	GOM_NL__2PRFIN20101209_004617_000000443097_00175_45879_2354.N1	09-DEC-2010 00:46:17	Dark	43.500	91	Kap Vel	2.4900	26000.	87	45879	No
14	GOM_NL__2PRFIN20101209_005042_000000473097_00175_45879_2355.N1	09-DEC-2010 00:50:42	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	45879	No
15	GOM_NL__2PRFIN20101209_005324_000000533097_00175_45879_2356.N1	09-DEC-2010 00:53:24	Dark	52.500	2	Alp Car	-0.73600	7000.0	105	45879	No
16	GOM_NL__2PRFIN20101209_005546_000000563097_00175_45879_2357.N1	09-DEC-2010 00:55:46	Dark	56.000	117	Pi Pup	2.7060	3800.0	112	45879	No
17	GOM_NL__2PRFIN20101209_005915_000000343097_00175_45879_2358.N1	09-DEC-2010 00:59:15	Dark	34.000	23	21Eps CMa	1.5020	26000.	68	45879	No
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19	GOM_NL__2PRFIN20101209_010806_000000553097_00175_45879_2360.N1	09-DEC-2010 01:08:06	Straylight	54.500	7	19Bet Ori	0.10000	14000.	109	45879	No
20	GOM_NL__2PRFIN20101209_011037_000000563097_00175_45879_2361.N1	09-DEC-2010 01:10:37	Straylight	56.000	30	46Eps Ori	1.6940	30000.	112	45879	No
21	GOM_NL__2PRFIN20101209_011306_000000553097_00175_45879_2362.N1	09-DEC-2010 01:13:06	Twilight	54.500	27	24Gam Ori	1.6360	26000.	109	45879	No
22	GOM_NL__2PRFIN20101209_011539_000000503097_00175_45879_2363.N1	09-DEC-2010 01:15:39	Bright	49.500	13	87Alp Tau	0.86700	3800.0	99	45879	No
23	GOM_NL__2PRFIN20101209_011831_000000373097_00175_45879_2364.N1	09-DEC-2010 01:18:31	Bright	37.000	176	23Zet Tau	3.0200	22000.	74	45879	No
24	GOM_NL__2PRFIN20101209_011949_000000373097_00175_45879_2365.N1	09-DEC-2010 01:19:49	Bright	37.000	150	44Zet Per	2.8900	28000.	74	45879	No
25	GOM_NL__2PRFIN20101209_012210_000000383097_00175_45879_2366.N1	09-DEC-2010 01:22:10	Bright	37.500	149	45Eps Per	2.8880	30000.	75	45879	No
26	GOM_NL__2PRFIN20101209_012417_000000353097_00175_45879_2367.N1	09-DEC-2010 01:24:17	Bright	35.000	175	39Del Per	3.0100	19400.	70	45879	No
27	GOM_NL__2PRFIN20101209_012634_000000473097_00175_45879_2368.N1	09-DEC-2010 01:26:34	Bright	47.000	42	34Bet Aur	1.9000	10200.	94	45879	No
28	GOM_NL__2PRFIN20101209_014146_000000473097_00175_45879_2369.N1	09-DEC-2010 01:41:46	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	45879	No
29	GOM_NL__2PRFIN20101209_014318_000000503097_00175_45879_2370.N1	09-DEC-2010 01:43:18	Bright	50.000	82	48Bet UMa	2.3650	10600.	100	45879	No
30	GOM_NL__2PRFIN20101209_014531_000000413097_00175_45879_2371.N1	09-DEC-2010 01:45:31	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	45879	No
31	GOM_NL__2PRFIN20101209_014750_000000383097_00175_45879_2372.N1	09-DEC-2010 01:47:50	Bright	37.500	39	85Eta UMa	1.8540	24000.	75	45879	No
32	GOM_NL__2PRFIN20101209_015121_000000443097_00175_45879_2373.N1	09-DEC-2010 01:51:21	Bright	43.500	152	12Alp2CVn	2.8900	11000.	87	45879	No
33	GOM_NL__2PRFIN20101209_015709_000000393097_00175_45879_2374.N1	09-DEC-2010 01:57:09	Bright	38.500	111	8Eta Boo	2.6800	6000.0	77	45879	No
34	GOM_NL__2PRFIN20101209_020036_000000443097_00175_45879_2375.N1	09-DEC-2010 02:00:36	Bright	44.000	138	47Eps Vir	2.8280	4700.0	88	45879	No
35	GOM_NL__2PRFIN20101209_020524_000000553097_00175_45879_2376.N1	09-DEC-2010 02:05:24	Twilight	55.000	121	29Gam Vir	2.7400	7200.0	110	45879	No
36	GOM_NL__2PRFIN20101209_020955_000000463097_00175_45879_2377.N1	09-DEC-2010 02:09:55	Twilight	46.000	169	46Gam Hya	2.9910	4700.0	92	45879	No
37	GOM_NL__2PRFIN20101209_021130_000000553097_00175_45879_2378.N1	09-DEC-2010 02:11:30	Dark	54.500	100	4Gam Crv	2.5800	13100.	109	45879	No
38	GOM_NL__2PRFIN20101209_021306_000000513097_00175_45879_2379.N1	09-DEC-2010 02:13:06	Dark	51.000	171	2Eps Crv	3.0010	4250.0	102	45879	No
39	GOM_NL__2PRFIN20101209_021852_000000403097_00175_45879_2380.N1	09-DEC-2010 02:18:52	Dark	40.000	99	Del Cen	2.5750	26000.	80	45879	No
40	GOM_NL__2PRFIN20101209_022220_000000463097_00176_45880_2361.N1	09-DEC-2010 02:22:20	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	45880	No
41	GOM_NL__2PRFIN20101209_022632_000000443097_00176_45880_2362.N1	09-DEC-2010 02:26:32	Dark	44.000	91	Kap Vel	2.4900	26000.	88	45880	No
42	GOM_NL__2PRFIN20101209_023057_000000473097_00176_45880_2363.N1	09-DEC-2010 02:30:57	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	45880	No

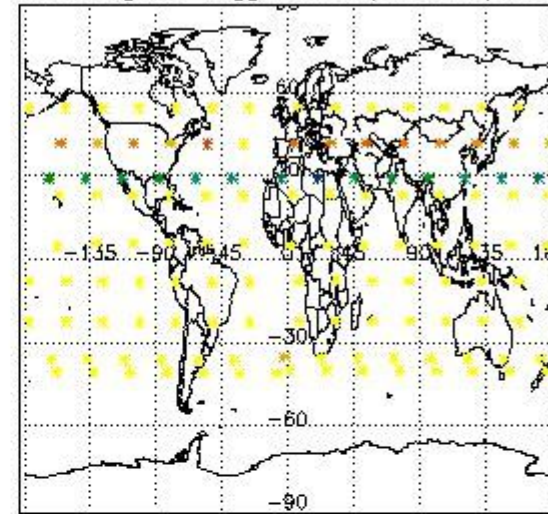


3.2 Plot quality information per product (world map)

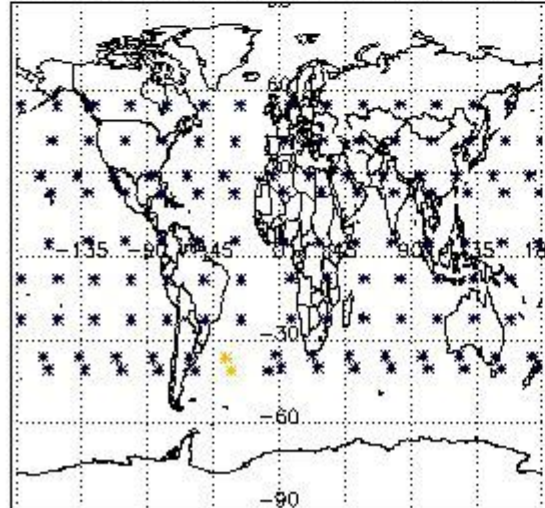
Percentage of flagged data per O3 profile



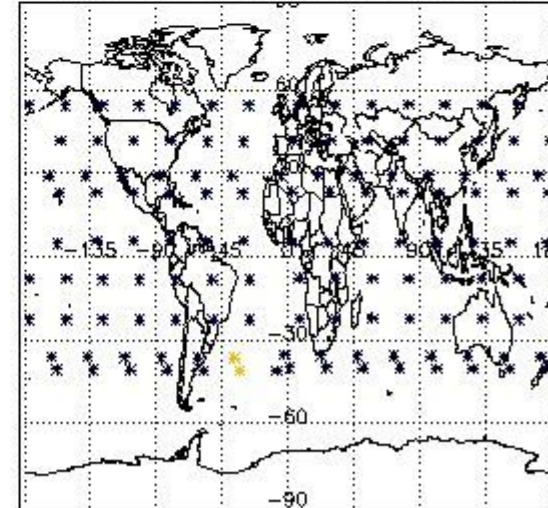
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

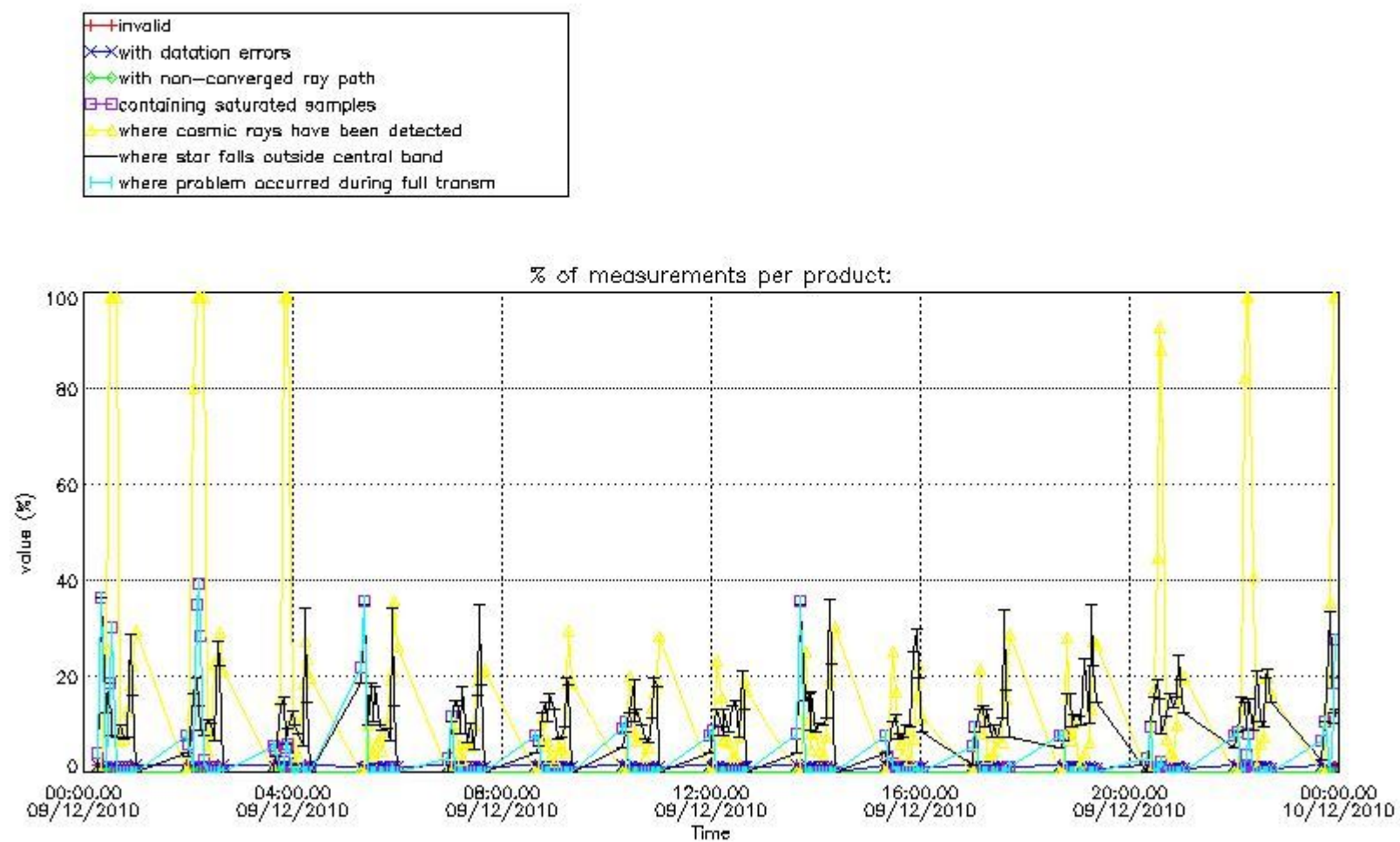


4. Level 1 quality information per product

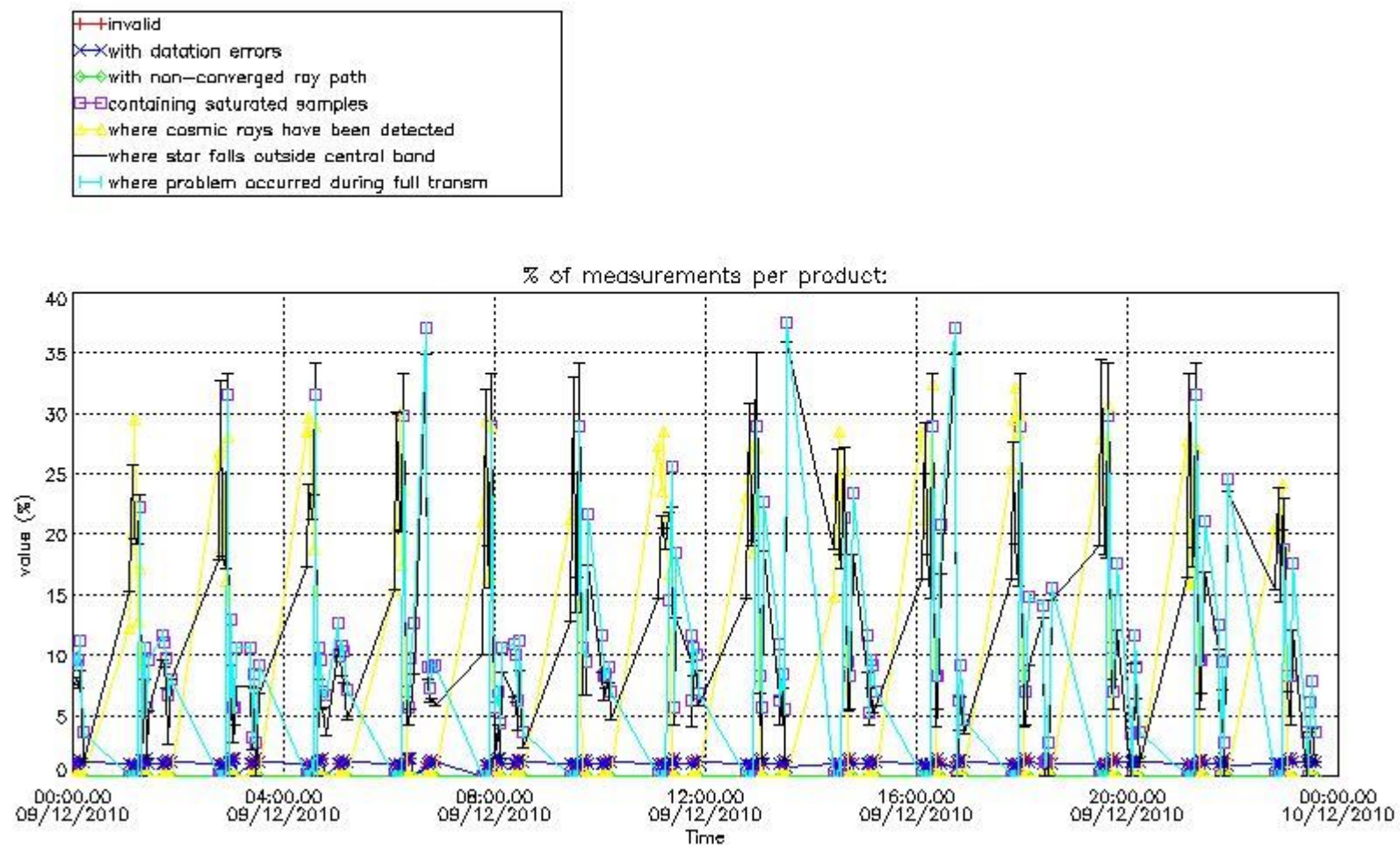
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

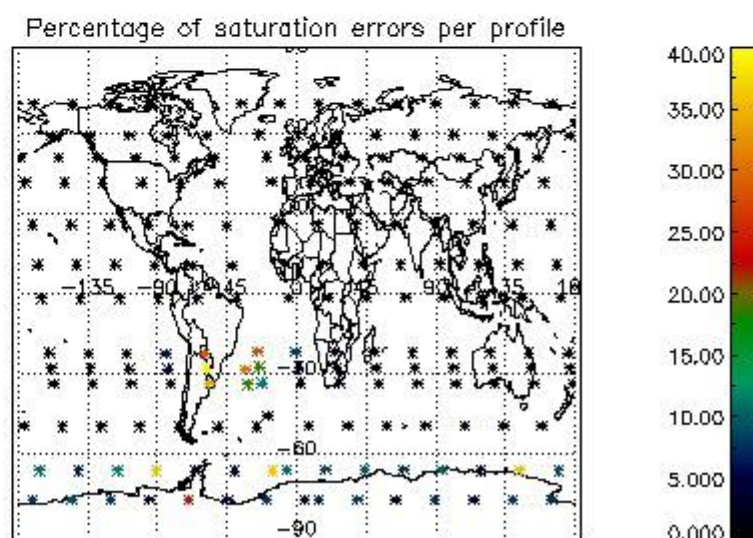
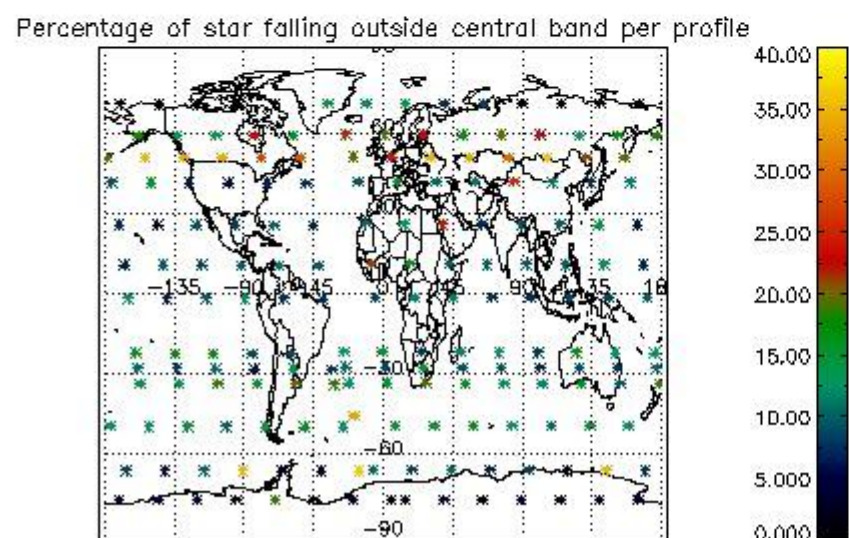
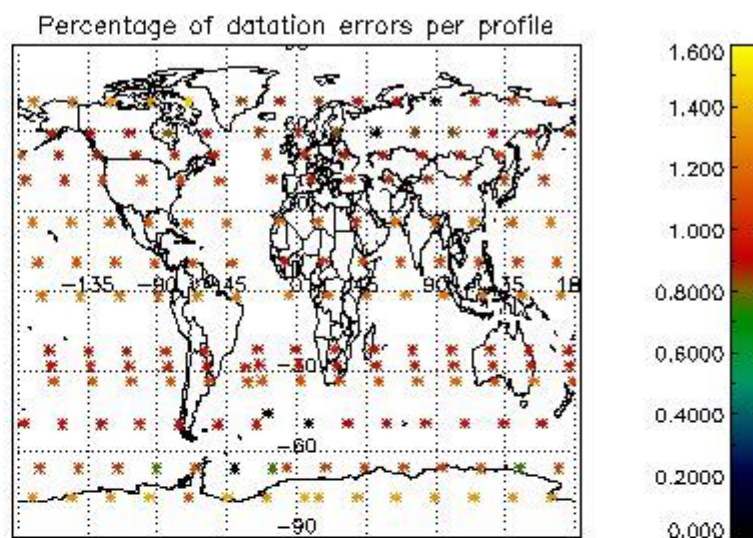
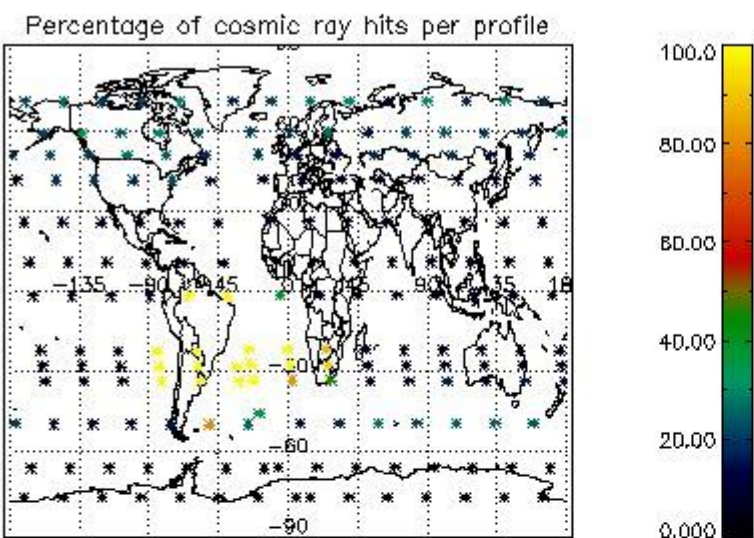


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

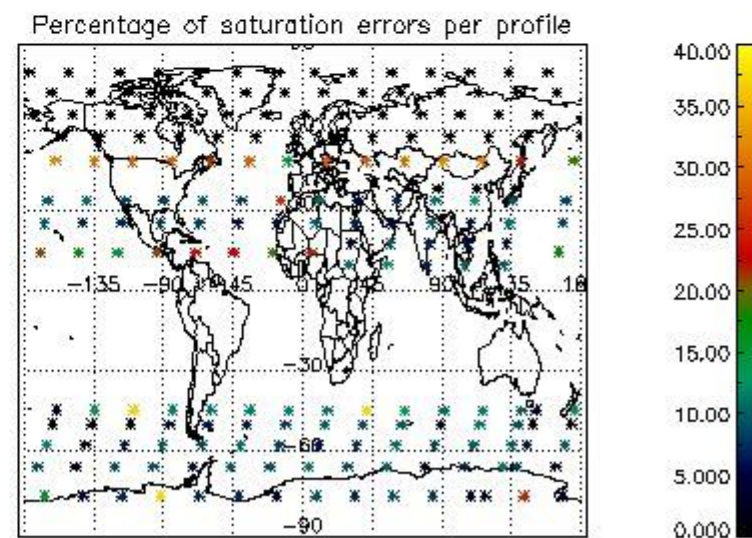
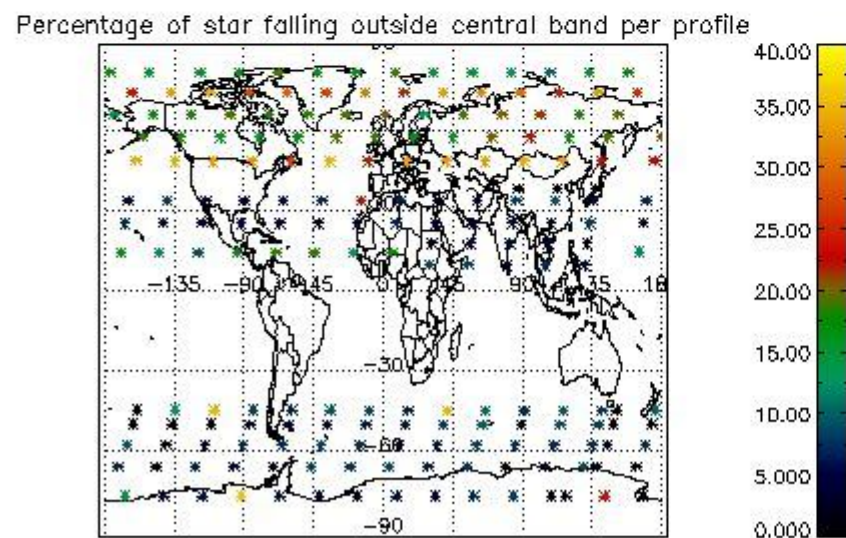
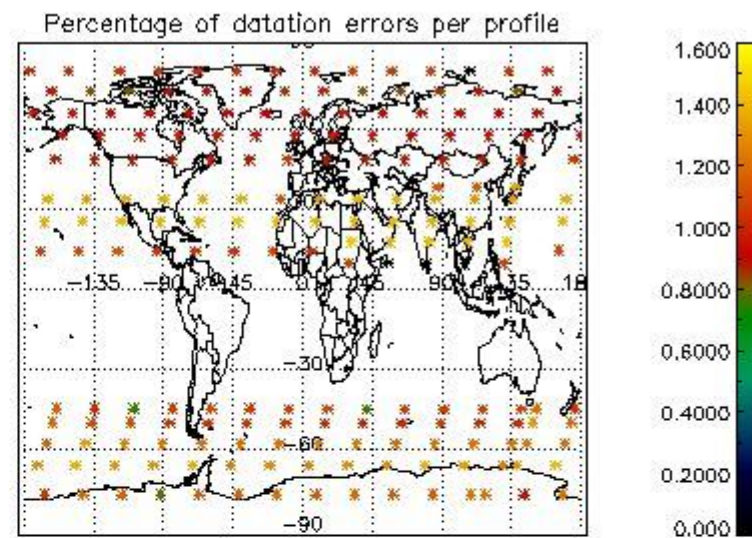
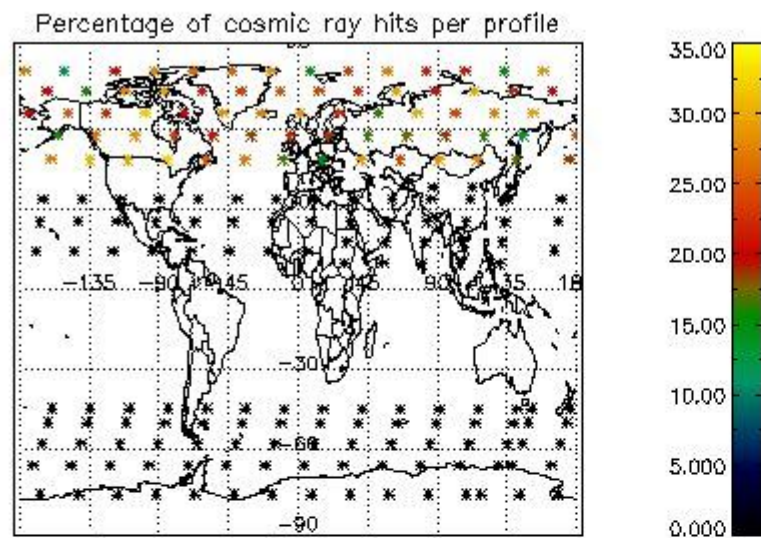


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

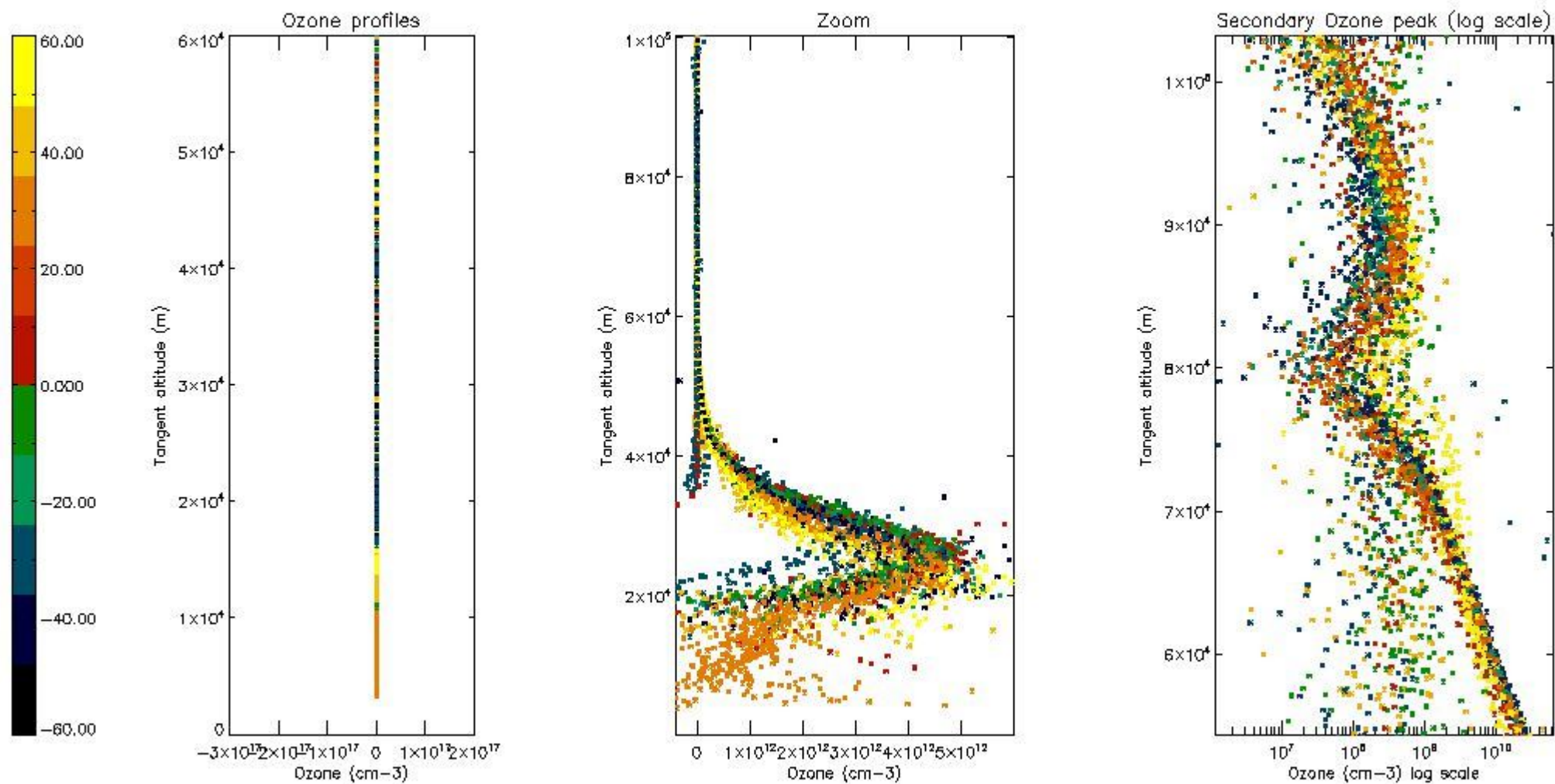
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	35
STD < 20	17

STD < 10	13
STD < 5	9

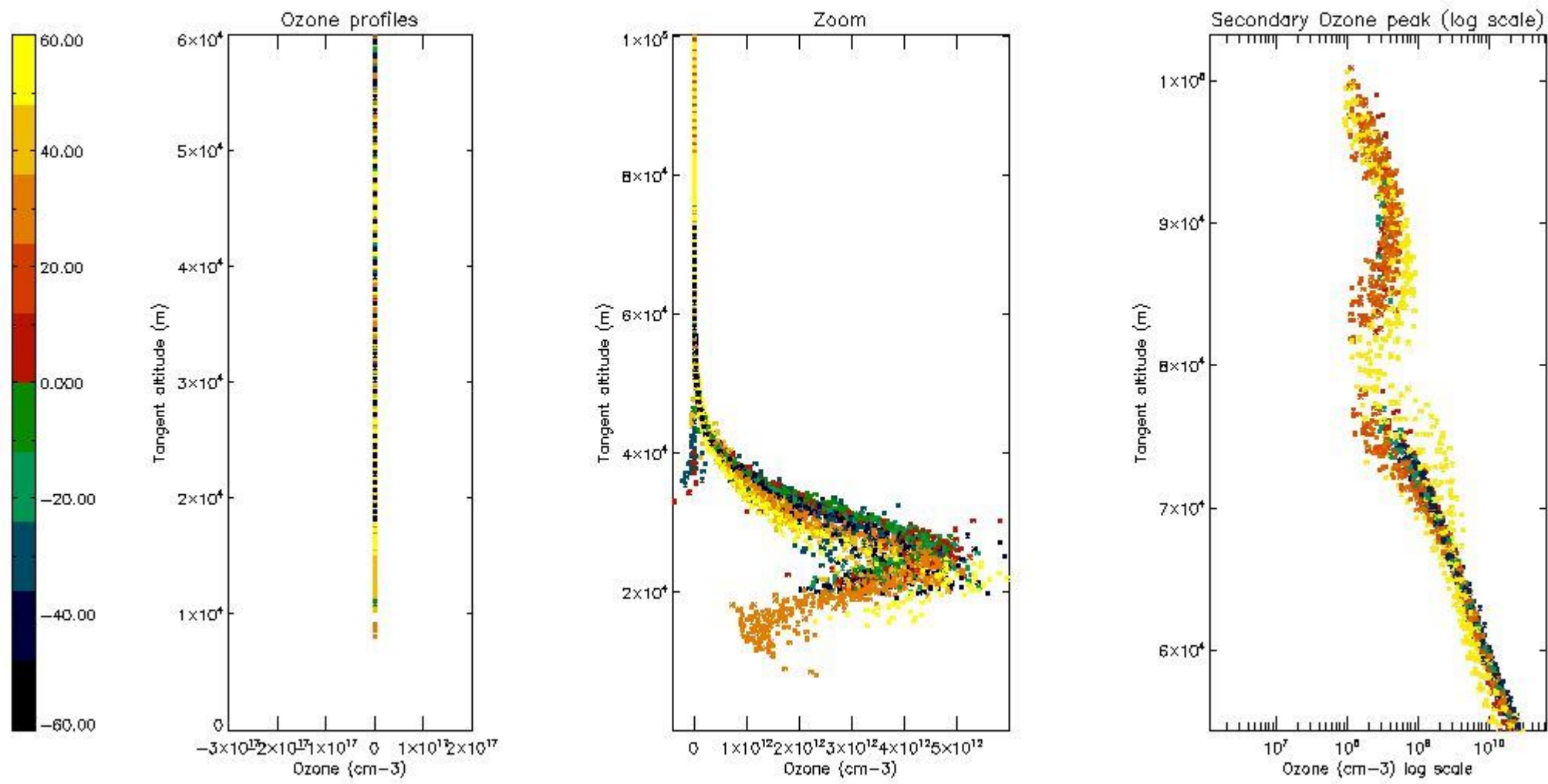
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



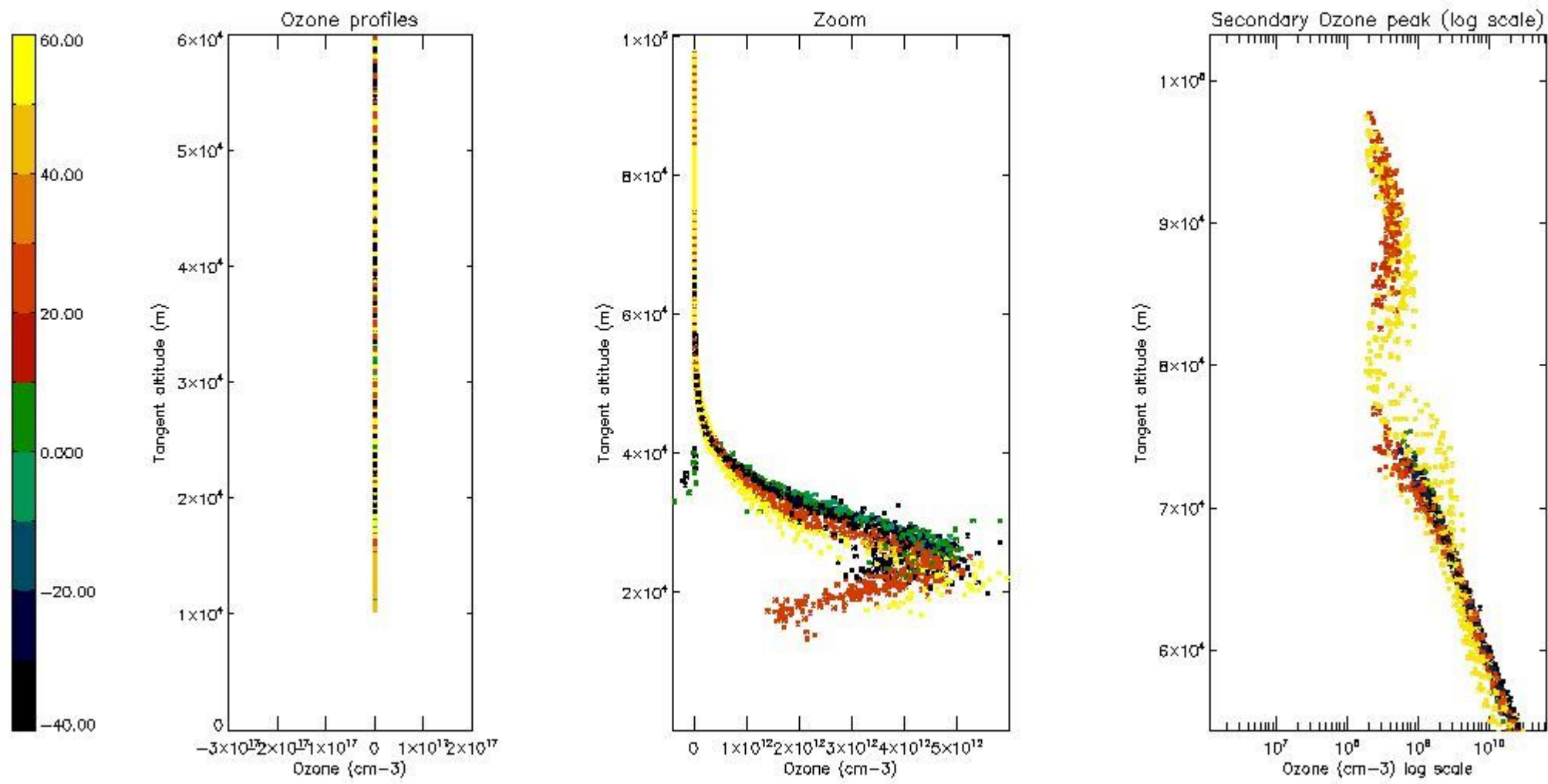
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



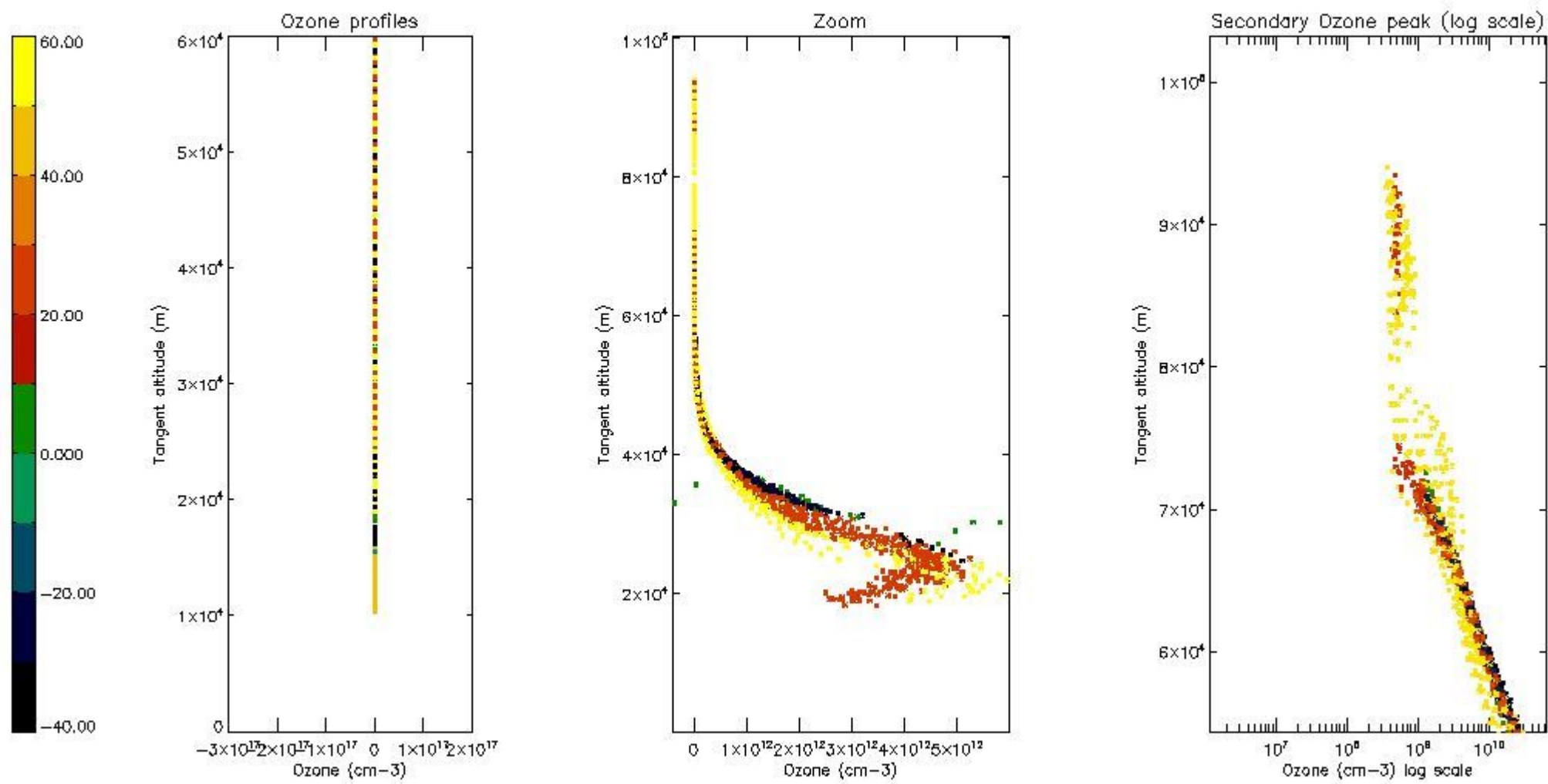
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



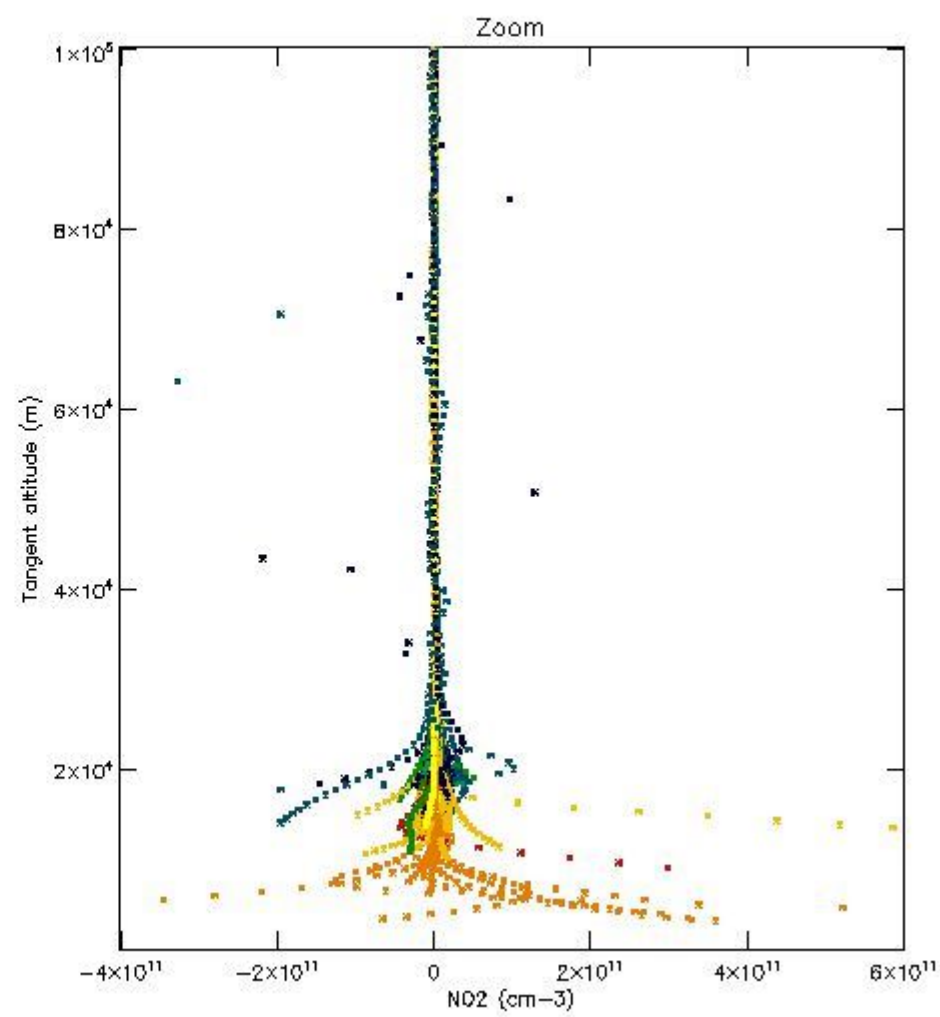
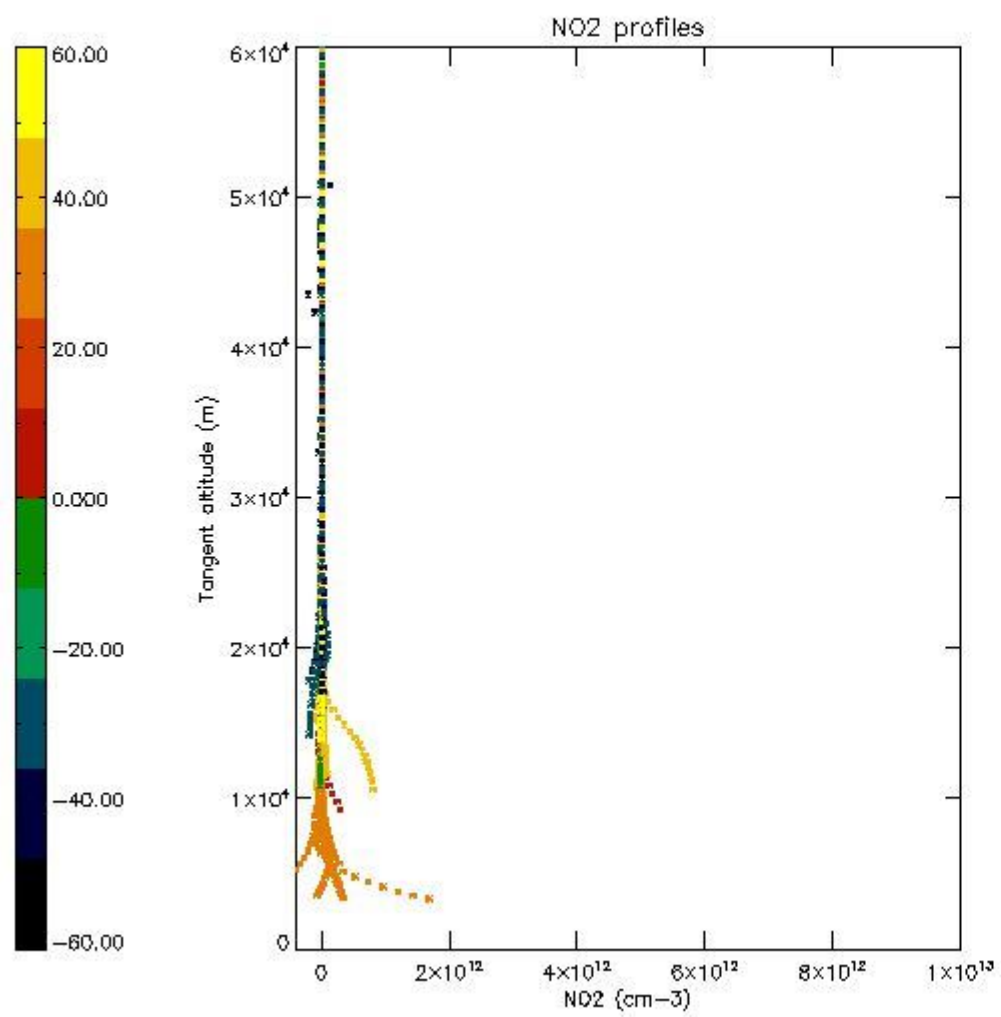
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



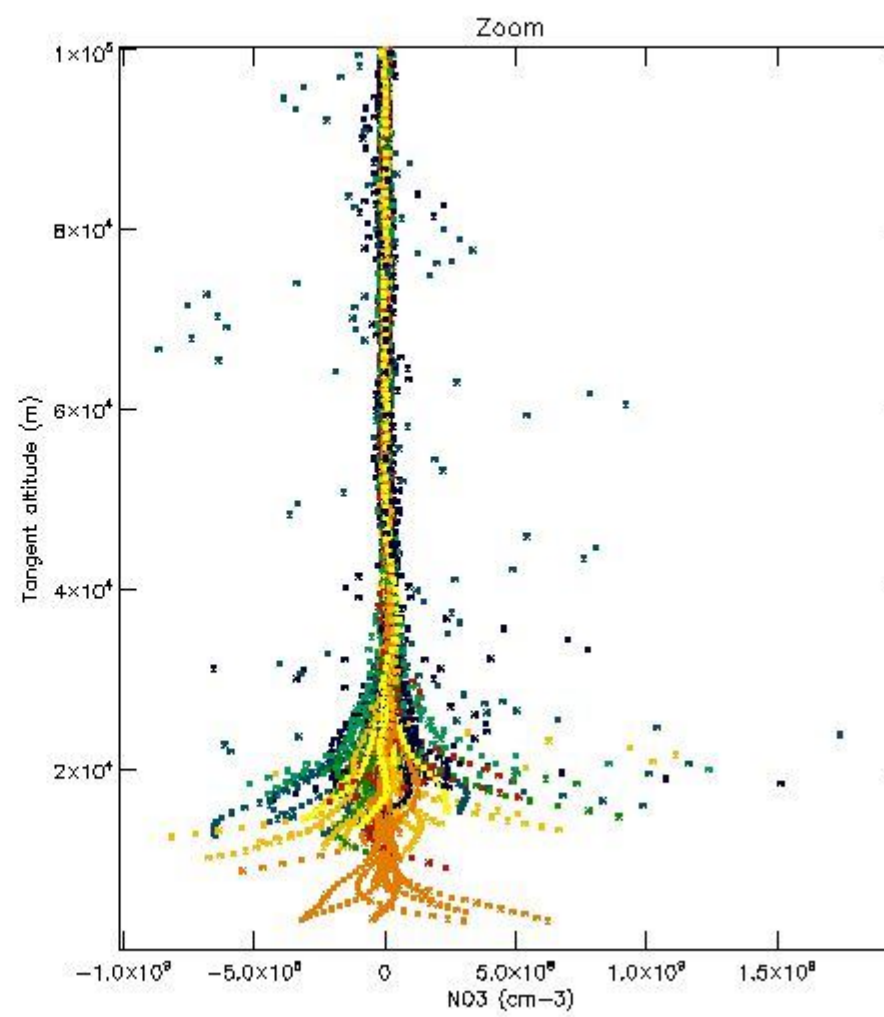
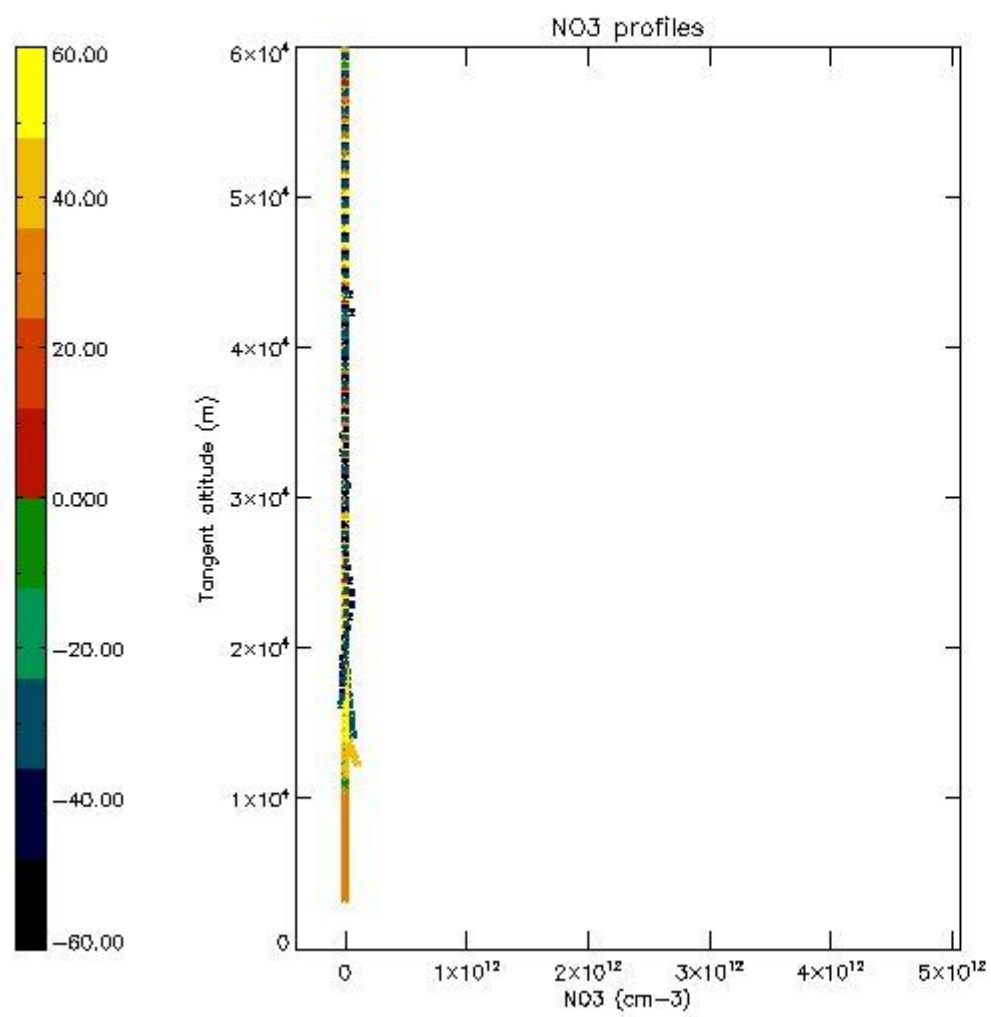
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



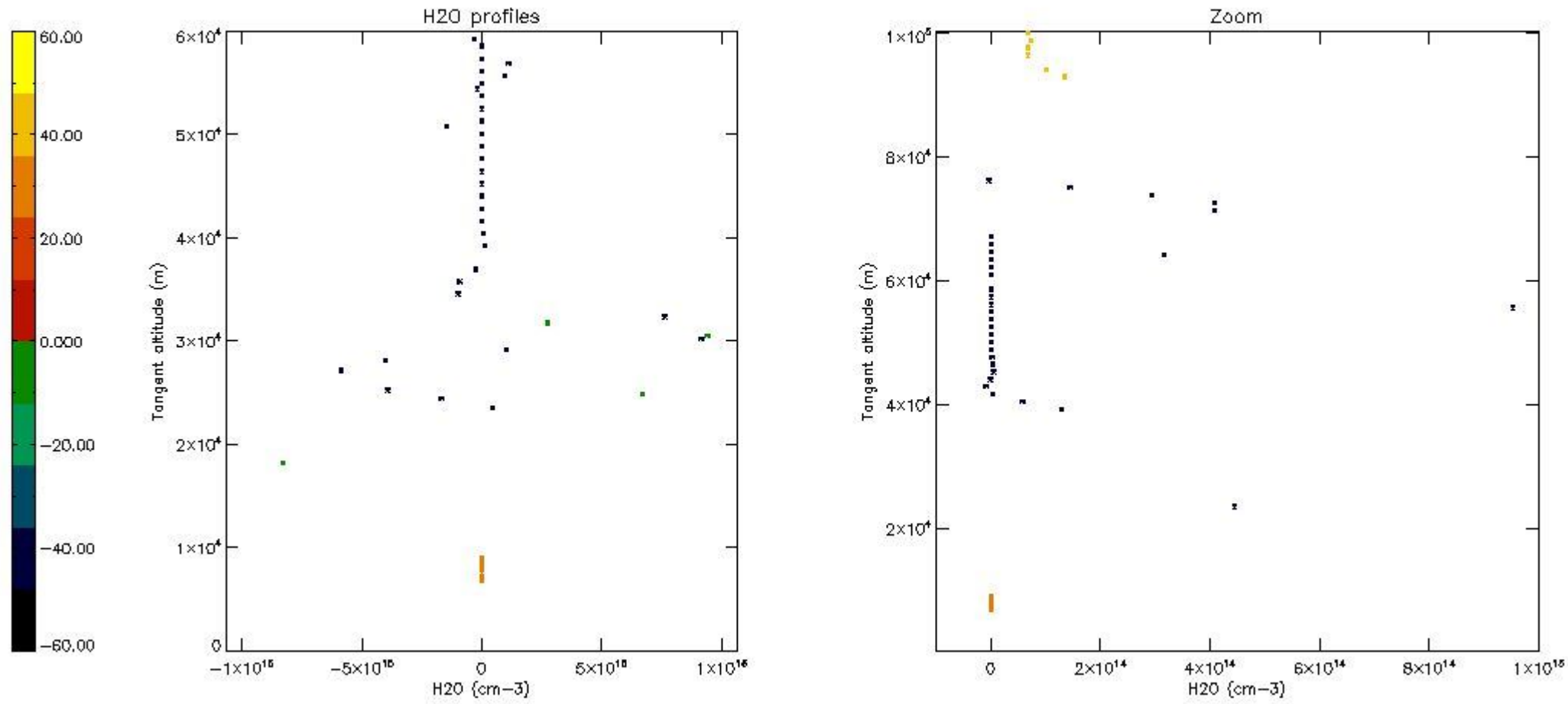
5.7 Plot NO3 profiles for all STD (dark without errors)

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	09-DEC-2010 00:01:33
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-DEC-2010 00:01:33
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-DEC-2010 00:01:33

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

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

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

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

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

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

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

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

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

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

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

[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](#)

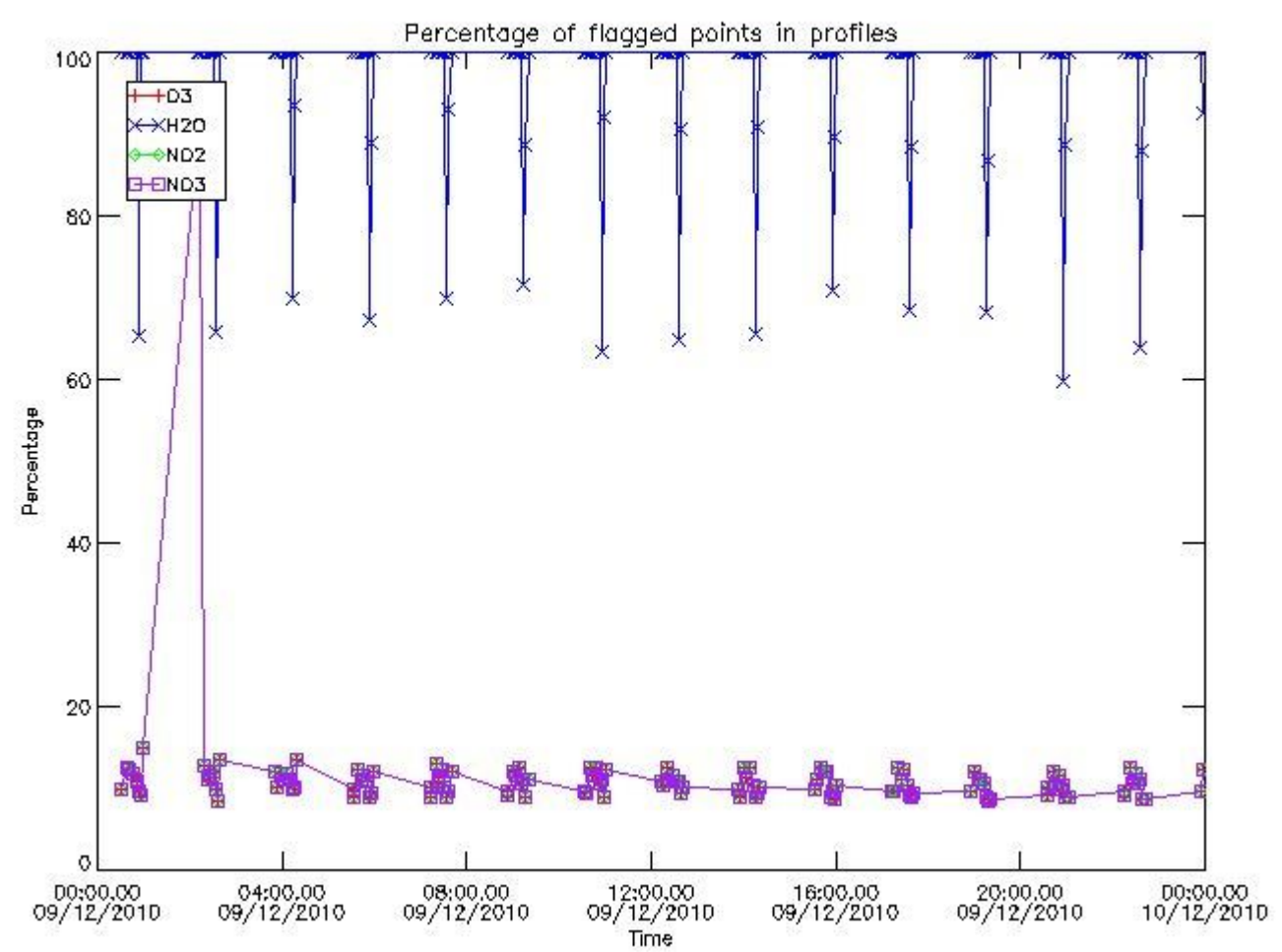
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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that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

Item	Value
Time of report generation	29APR2013 16:46:29
Data source version	GOMOS/6.01
Start time of products	09-12-2010 (09DEC2010 00:00:00)
Stop time of products	10-12-2010 (10DEC2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	382
Nb of prods with errors	0

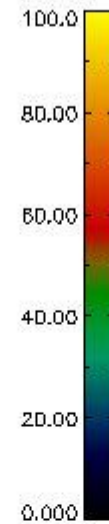
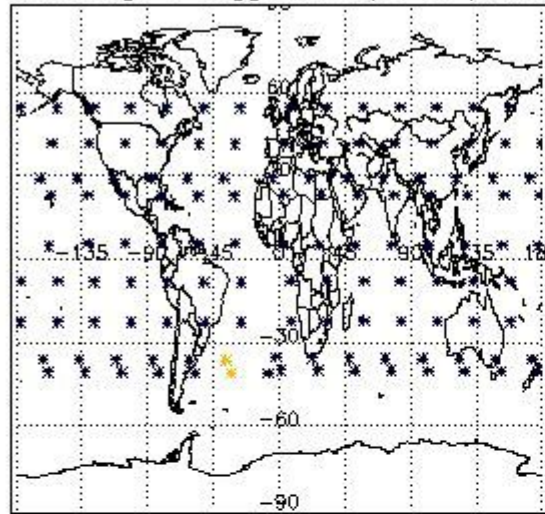
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20101209_000133_000000473097_00174_45878_2349.N1	09-DEC-2010 00:01:33	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	45878	No
2	GOM_NL__2PRFIN20101209_000304_000000503097_00174_45878_2350.N1	09-DEC-2010 00:03:04	Bright	49.500	82	48Bet UMa	2.3650	10600.	99	45878	No
3	GOM_NL__2PRFIN20101209_000517_000000423097_00174_45878_2351.N1	09-DEC-2010 00:05:17	Bright	41.500	32	77Eps UMa	1.7630	11000.	83	45878	No
4	GOM_NL__2PRFIN20101209_000736_000000403097_00174_45878_2352.N1	09-DEC-2010 00:07:36	Bright	40.000	39	85Eta UMa	1.8540	24000.	80	45878	No
5	GOM_NL__2PRFIN20101209_001107_000000413097_00174_45878_2353.N1	09-DEC-2010 00:11:07	Bright	41.000	152	12Alp2CVn	2.8900	11000.	82	45878	No
6	GOM_NL__2PRFIN20101209_001655_000000373097_00174_45878_2354.N1	09-DEC-2010 00:16:55	Bright	36.500	111	8Eta Boo	2.6800	6000.0	73	45878	No
7	GOM_NL__2PRFIN20101209_002022_000000663097_00174_45878_2355.N1	09-DEC-2010 00:20:22	Bright	66.000	138	47Eps Vir	2.8280	4700.0	132	45878	No
8	GOM_NL__2PRFIN20101209_002509_000000533097_00174_45878_2356.N1	09-DEC-2010 00:25:09	Twilight	52.500	121	29Gam Vir	2.7400	7200.0	105	45878	No
9	GOM_NL__2PRFIN20101209_002940_000000463097_00174_45878_2357.N1	09-DEC-2010 00:29:40	Twilight	46.000	169	46Gam Hya	2.9910	4700.0	92	45878	No
10	GOM_NL__2PRFIN20101209_003115_000000523097_00174_45878_2358.N1	09-DEC-2010 00:31:15	Dark	51.500	100	4Gam Crv	2.5800	13100.	103	45878	No
11	GOM_NL__2PRFIN20101209_003837_000000413097_00174_45878_2359.N1	09-DEC-2010 00:38:37	Dark	41.000	99	Del Cen	2.5750	26000.	82	45878	No
12	GOM_NL__2PRFIN20101209_004205_000000463097_00175_45879_2353.N1	09-DEC-2010 00:42:05	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	45879	No
13	GOM_NL__2PRFIN20101209_004617_000000443097_00175_45879_2354.N1	09-DEC-2010 00:46:17	Dark	43.500	91	Kap Vel	2.4900	26000.	87	45879	No
14	GOM_NL__2PRFIN20101209_005042_000000473097_00175_45879_2355.N1	09-DEC-2010 00:50:42	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	45879	No
15	GOM_NL__2PRFIN20101209_005324_000000533097_00175_45879_2356.N1	09-DEC-2010 00:53:24	Dark	52.500	2	Alp Car	-0.73600	7000.0	105	45879	No
16	GOM_NL__2PRFIN20101209_005546_000000563097_00175_45879_2357.N1	09-DEC-2010 00:55:46	Dark	56.000	117	Pi Pup	2.7060	3800.0	112	45879	No
17	GOM_NL__2PRFIN20101209_005915_000000343097_00175_45879_2358.N1	09-DEC-2010 00:59:15	Dark	34.000	23	21Eps CMa	1.5020	26000.	68	45879	No
18	GOM_NL__2PRFIN20101209_010450_000000493097_00175_45879_2359.N1	09-DEC-2010 01:04:50	Straylight	49.000	101	11Alp Lep	2.5820	7000.0	98	45879	No
19	GOM_NL__2PRFIN20101209_010806_000000553097_00175_45879_2360.N1	09-DEC-2010 01:08:06	Straylight	54.500	7	19Bet Ori	0.10000	14000.	109	45879	No
20	GOM_NL__2PRFIN20101209_011037_000000563097_00175_45879_2361.N1	09-DEC-2010 01:10:37	Straylight	56.000	30	46Eps Ori	1.6940	30000.	112	45879	No
21	GOM_NL__2PRFIN20101209_011306_000000553097_00175_45879_2362.N1	09-DEC-2010 01:13:06	Twilight	54.500	27	24Gam Ori	1.6360	26000.	109	45879	No
22	GOM_NL__2PRFIN20101209_011539_000000503097_00175_45879_2363.N1	09-DEC-2010 01:15:39	Bright	49.500	13	87Alp Tau	0.86700	3800.0	99	45879	No
23	GOM_NL__2PRFIN20101209_011831_000000373097_00175_45879_2364.N1	09-DEC-2010 01:18:31	Bright	37.000	176	23Zet Tau	3.0200	22000.	74	45879	No
24	GOM_NL__2PRFIN20101209_011949_000000373097_00175_45879_2365.N1	09-DEC-2010 01:19:49	Bright	37.000	150	44Zet Per	2.8900	28000.	74	45879	No
25	GOM_NL__2PRFIN20101209_012210_000000383097_00175_45879_2366.N1	09-DEC-2010 01:22:10	Bright	37.500	149	45Eps Per	2.8880	30000.	75	45879	No
26	GOM_NL__2PRFIN20101209_012417_000000353097_00175_45879_2367.N1	09-DEC-2010 01:24:17	Bright	35.000	175	39Del Per	3.0100	19400.	70	45879	No
27	GOM_NL__2PRFIN20101209_012634_000000473097_00175_45879_2368.N1	09-DEC-2010 01:26:34	Bright	47.000	42	34Bet Aur	1.9000	10200.	94	45879	No
28	GOM_NL__2PRFIN20101209_014146_000000473097_00175_45879_2369.N1	09-DEC-2010 01:41:46	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	45879	No
29	GOM_NL__2PRFIN20101209_014318_000000503097_00175_45879_2370.N1	09-DEC-2010 01:43:18	Bright	50.000	82	48Bet UMa	2.3650	10600.	100	45879	No
30	GOM_NL__2PRFIN20101209_014531_000000413097_00175_45879_2371.N1	09-DEC-2010 01:45:31	Bright	41.000	32	77Eps UMa	1.7630	11000.	82	45879	No
31	GOM_NL__2PRFIN20101209_014750_000000383097_00175_45879_2372.N1	09-DEC-2010 01:47:50	Bright	37.500	39	85Eta UMa	1.8540	24000.	75	45879	No
32	GOM_NL__2PRFIN20101209_015121_000000443097_00175_45879_2373.N1	09-DEC-2010 01:51:21	Bright	43.500	152	12Alp2CVn	2.8900	11000.	87	45879	No
33	GOM_NL__2PRFIN20101209_015709_000000393097_00175_45879_2374.N1	09-DEC-2010 01:57:09	Bright	38.500	111	8Eta Boo	2.6800	6000.0	77	45879	No
34	GOM_NL__2PRFIN20101209_020036_000000443097_00175_45879_2375.N1	09-DEC-2010 02:00:36	Bright	44.000	138	47Eps Vir	2.8280	4700.0	88	45879	No
35	GOM_NL__2PRFIN20101209_020524_000000553097_00175_45879_2376.N1	09-DEC-2010 02:05:24	Twilight	55.000	121	29Gam Vir	2.7400	7200.0	110	45879	No
36	GOM_NL__2PRFIN20101209_020955_000000463097_00175_45879_2377.N1	09-DEC-2010 02:09:55	Twilight	46.000	169	46Gam Hya	2.9910	4700.0	92	45879	No
37	GOM_NL__2PRFIN20101209_021130_000000553097_00175_45879_2378.N1	09-DEC-2010 02:11:30	Dark	54.500	100	4Gam Crv	2.5800	13100.	109	45879	No
38	GOM_NL__2PRFIN20101209_021306_000000513097_00175_45879_2379.N1	09-DEC-2010 02:13:06	Dark	51.000	171	2Eps Crv	3.0010	4250.0	102	45879	No
39	GOM_NL__2PRFIN20101209_021852_000000403097_00175_45879_2380.N1	09-DEC-2010 02:18:52	Dark	40.000	99	Del Cen	2.5750	26000.	80	45879	No
40	GOM_NL__2PRFIN20101209_022220_000000463097_00176_45880_2361.N1	09-DEC-2010 02:22:20	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	45880	No
41	GOM_NL__2PRFIN20101209_022632_000000443097_00176_45880_2362.N1	09-DEC-2010 02:26:32	Dark	44.000	91	Kap Vel	2.4900	26000.	88	45880	No
42	GOM_NL__2PRFIN20101209_023057_000000473097_00176_45880_2363.N1	09-DEC-2010 02:30:57	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	45880	No

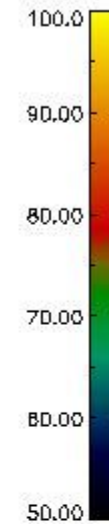
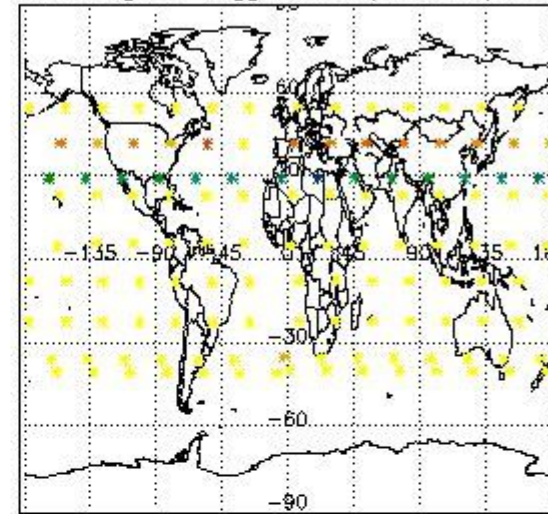


3.2 Plot quality information per product (world map)

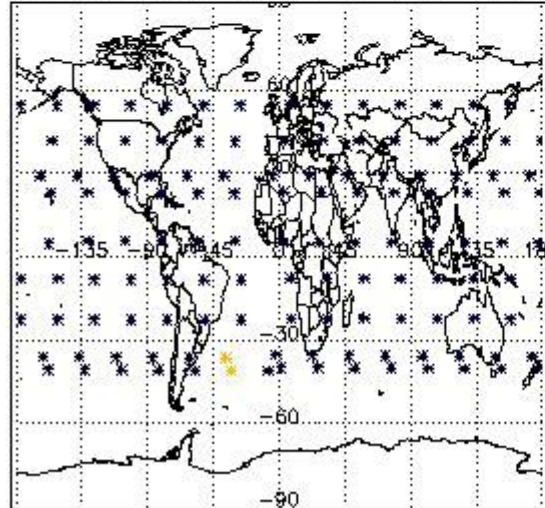
Percentage of flagged data per O3 profile



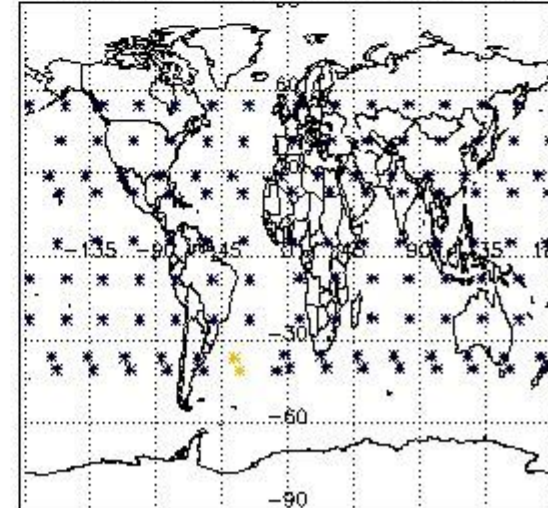
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

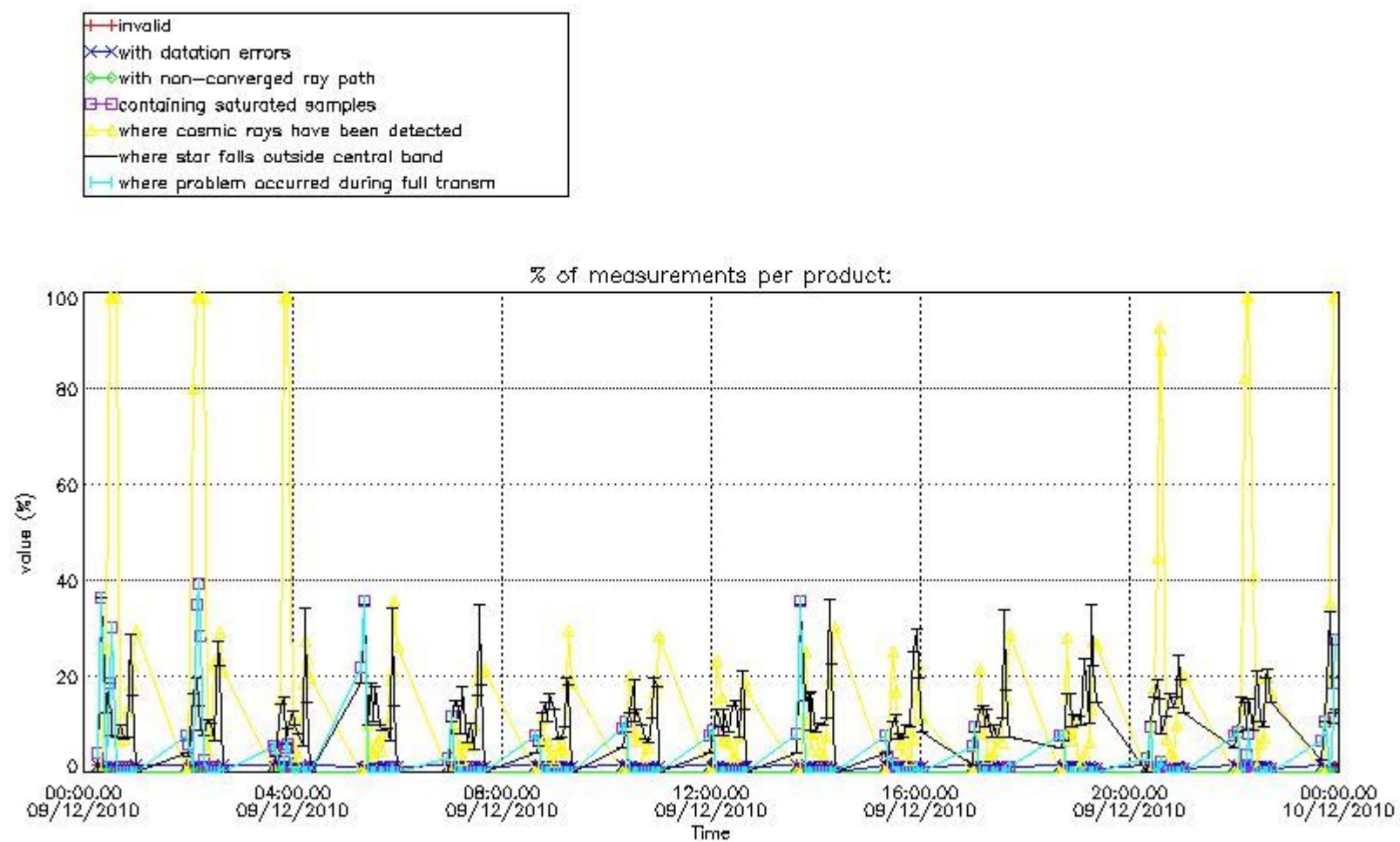


4. Level 1 quality information per product

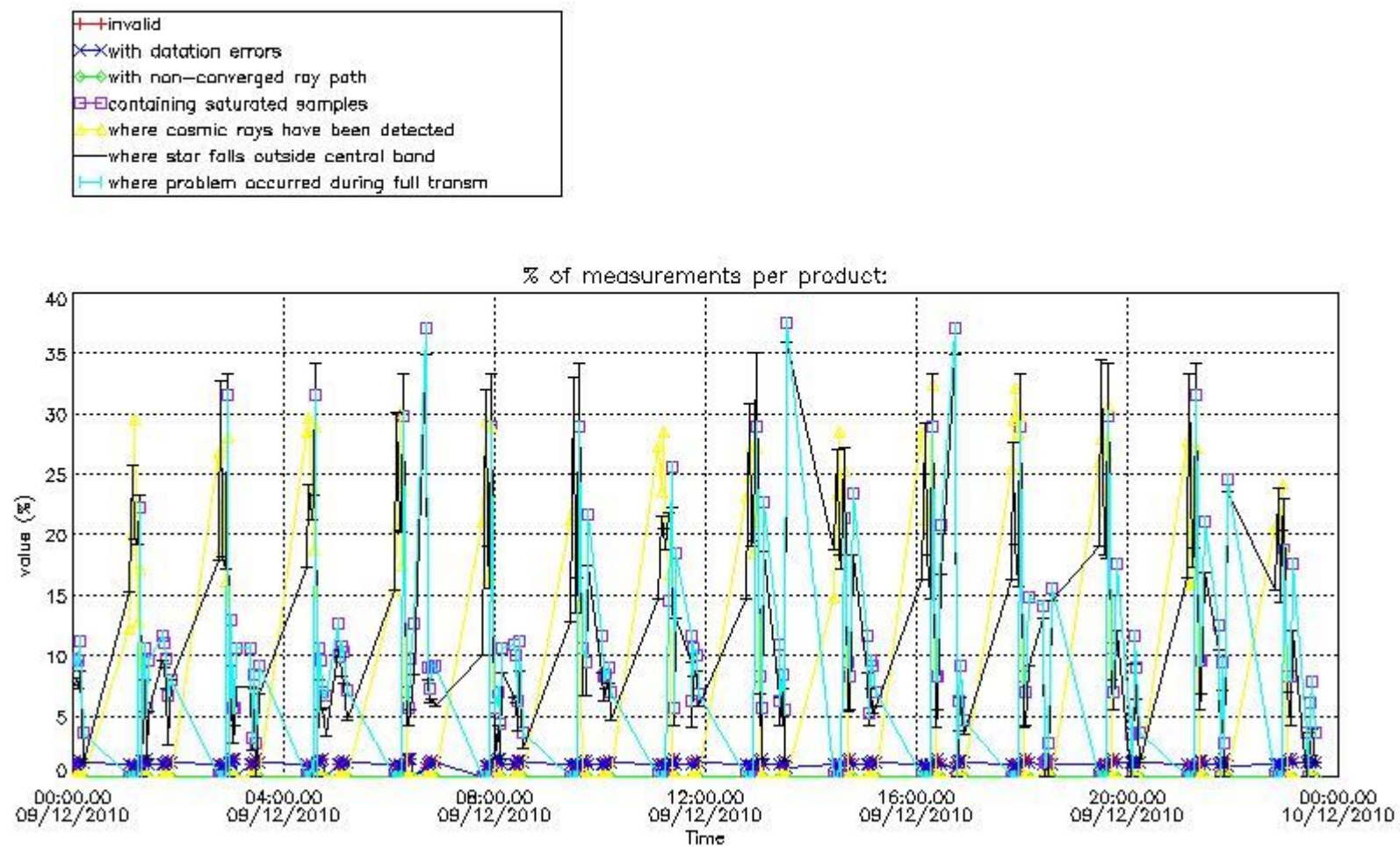
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

4.1 Plot quality information per product (time dependant) coming from level 1b processing

4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes

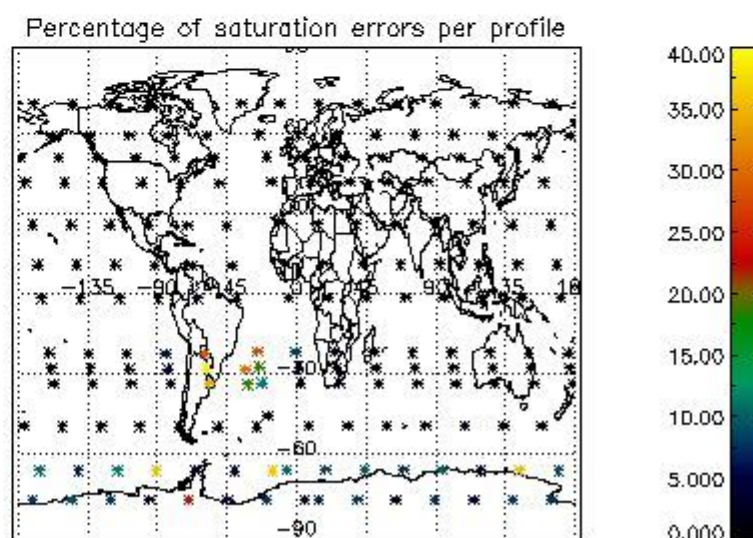
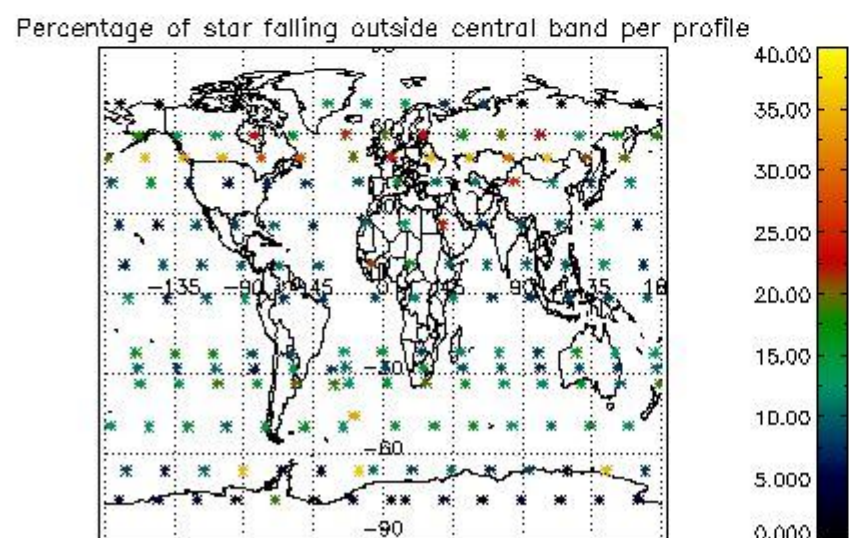
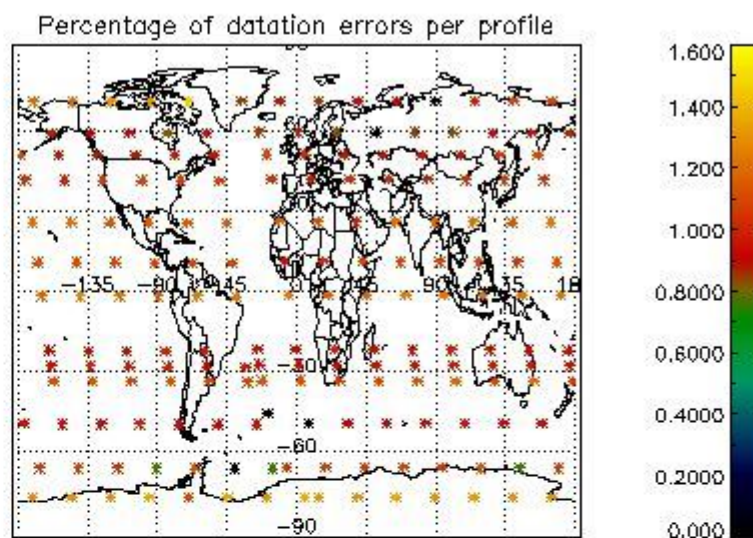
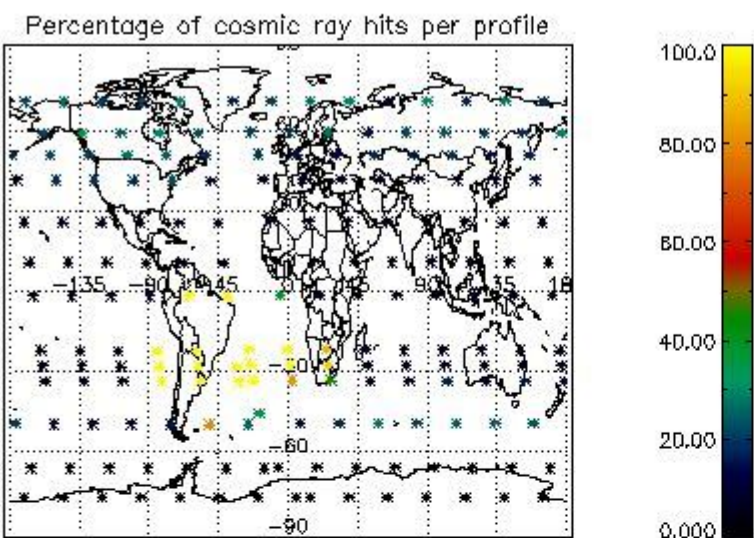


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

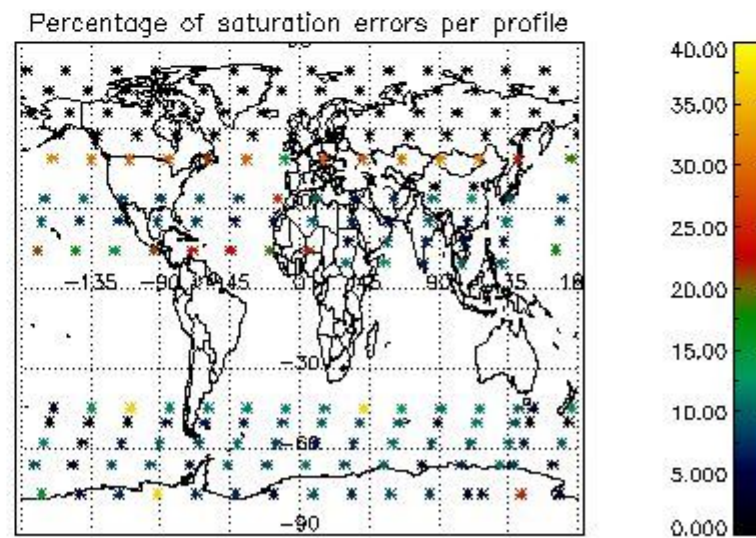
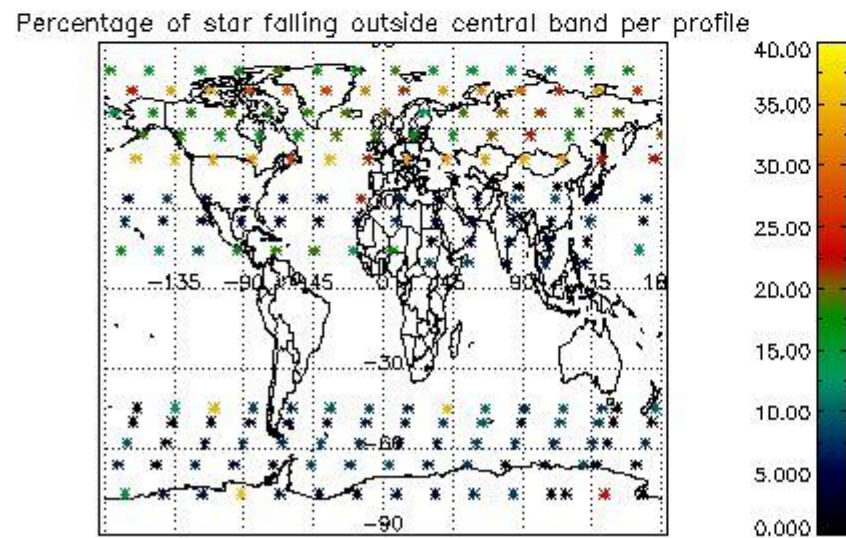
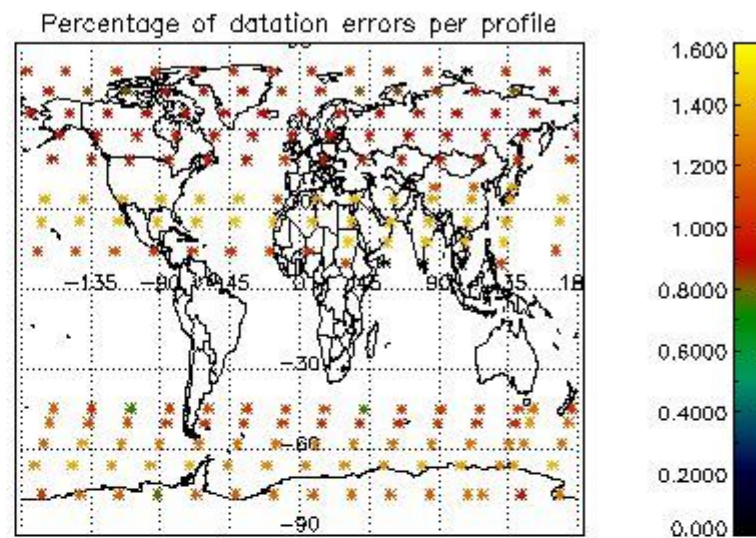
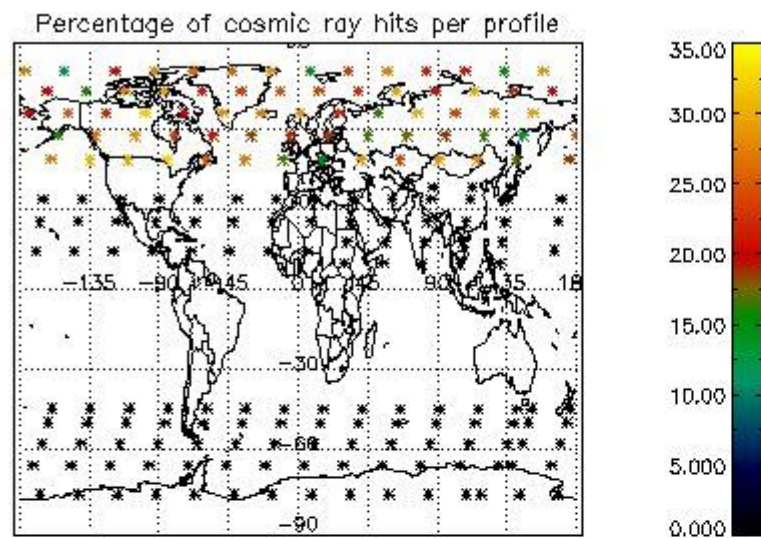


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



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

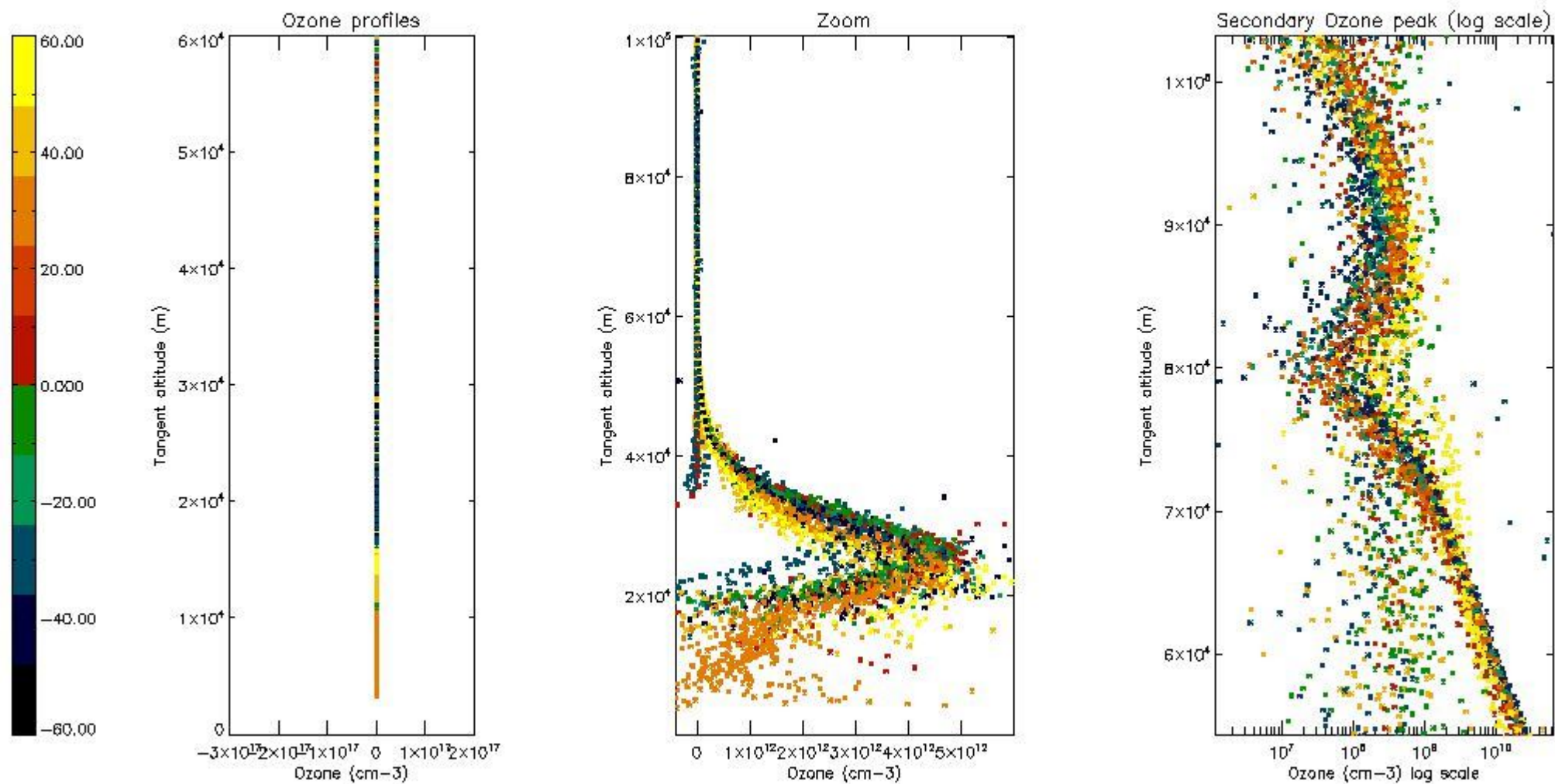
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	35
STD < 20	17

STD < 10	13
STD < 5	9

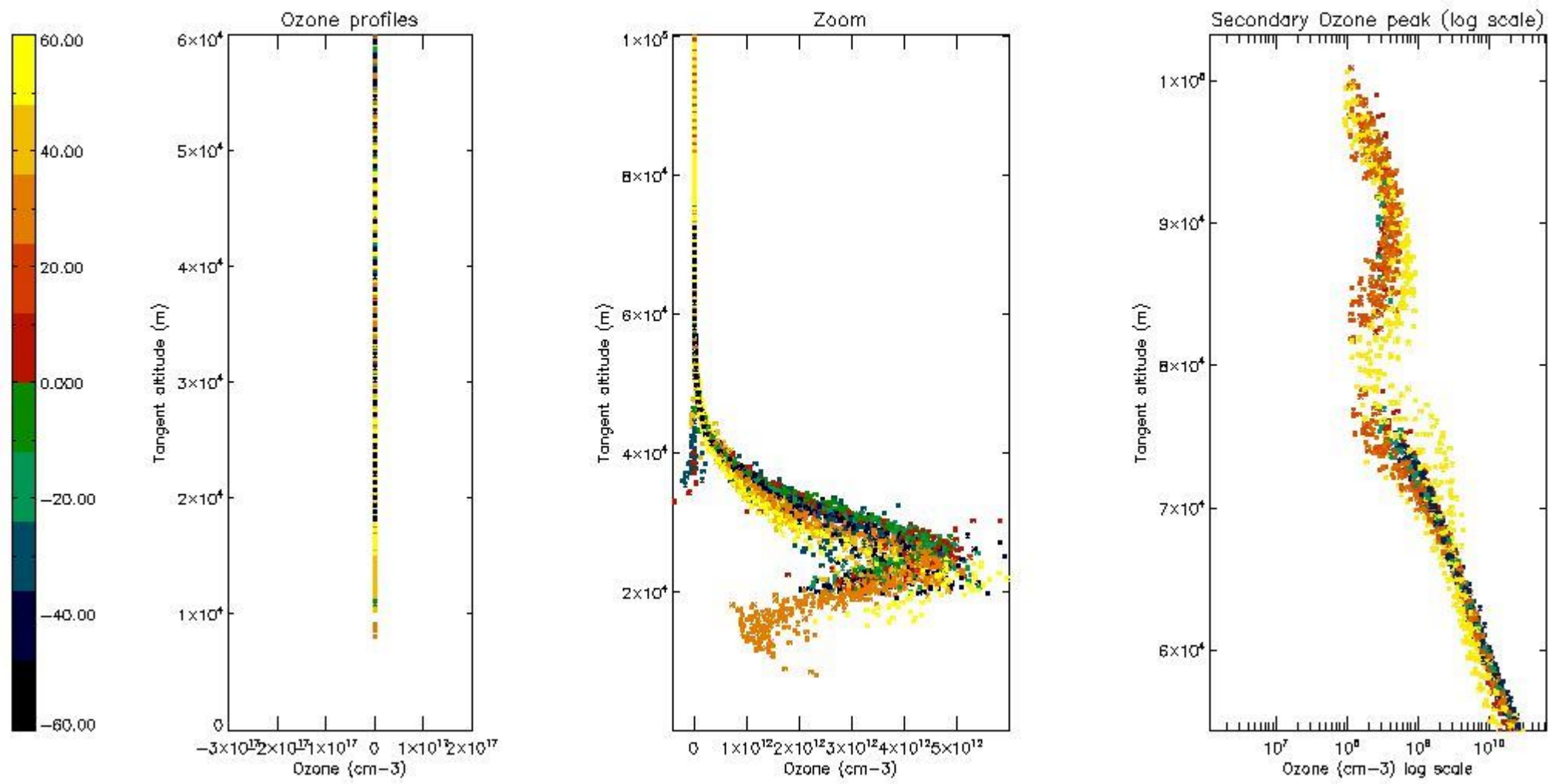
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



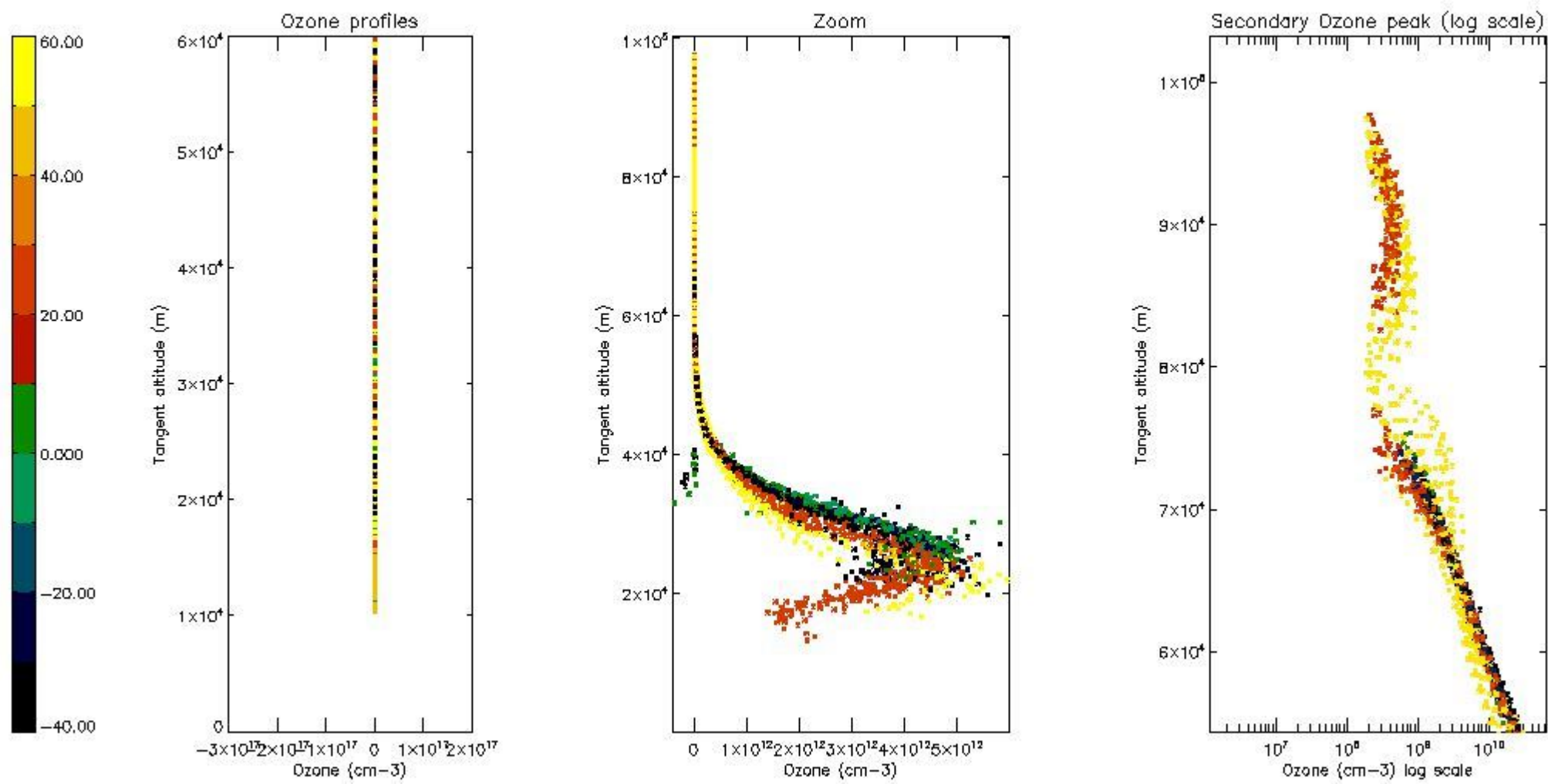
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



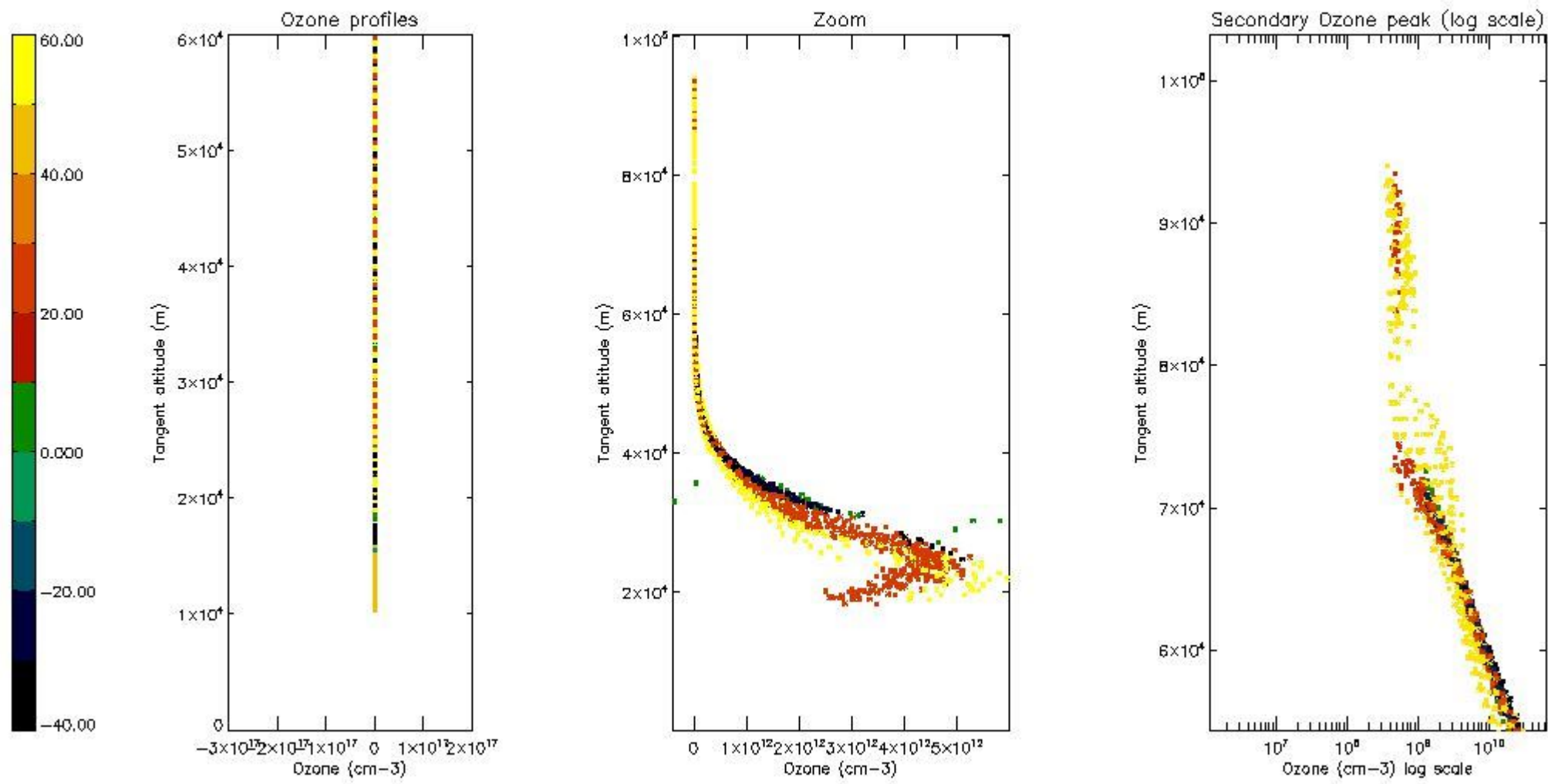
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



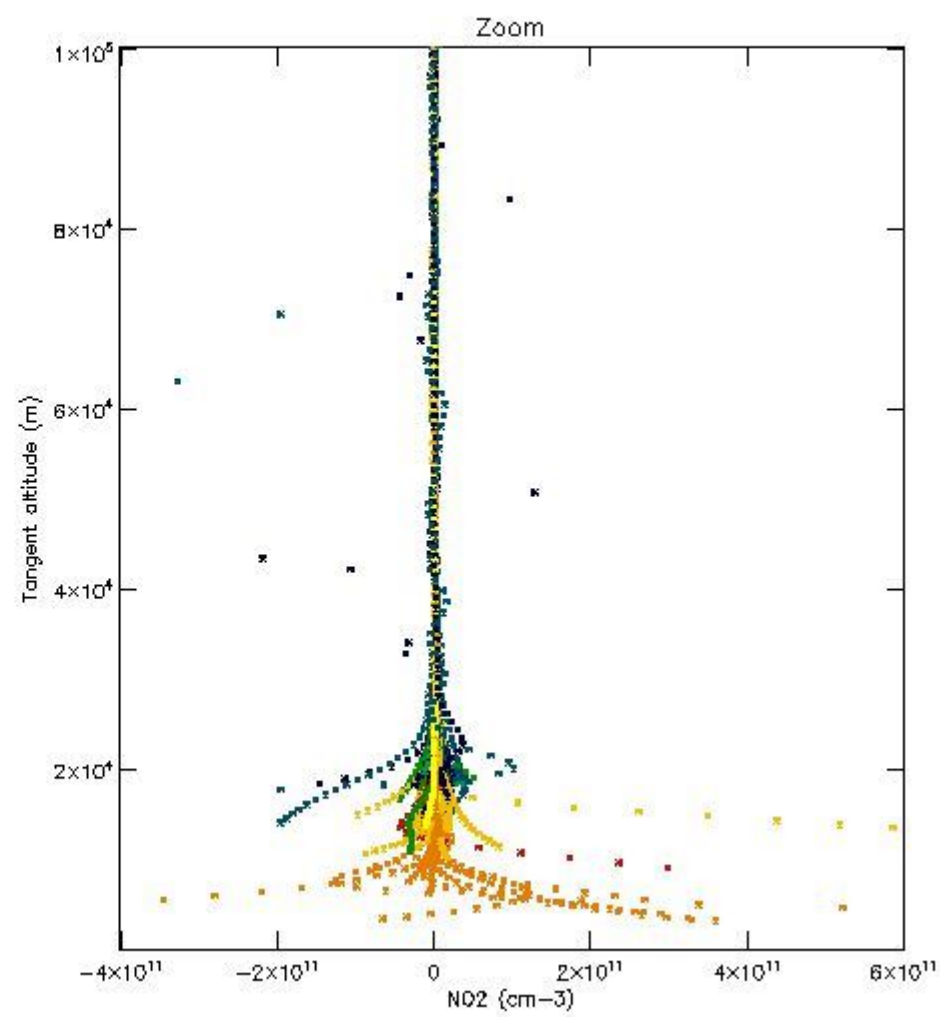
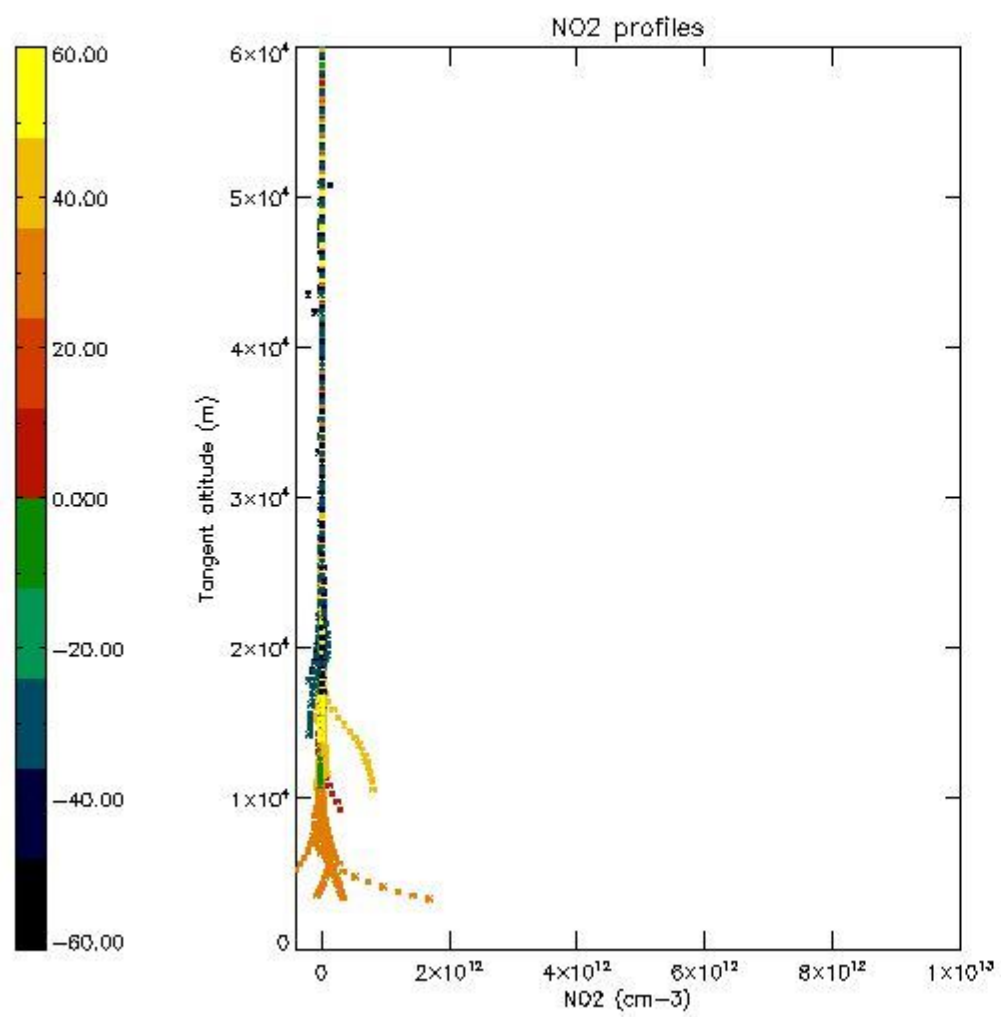
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



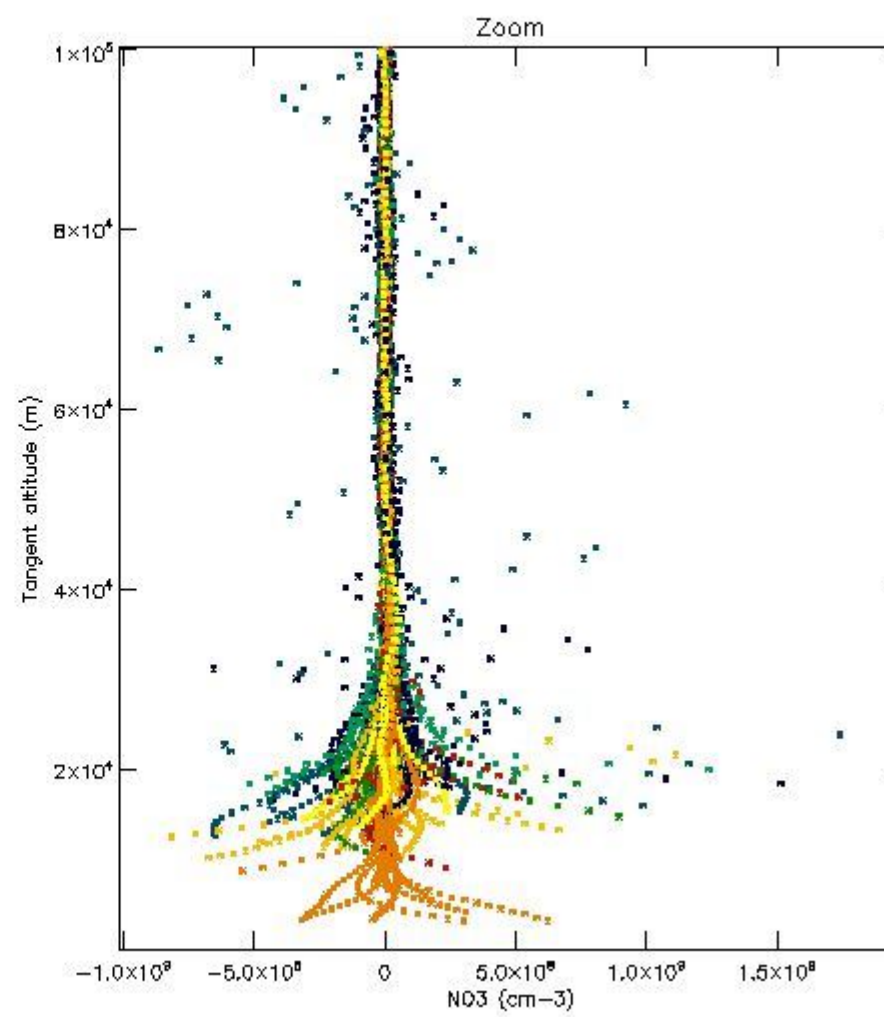
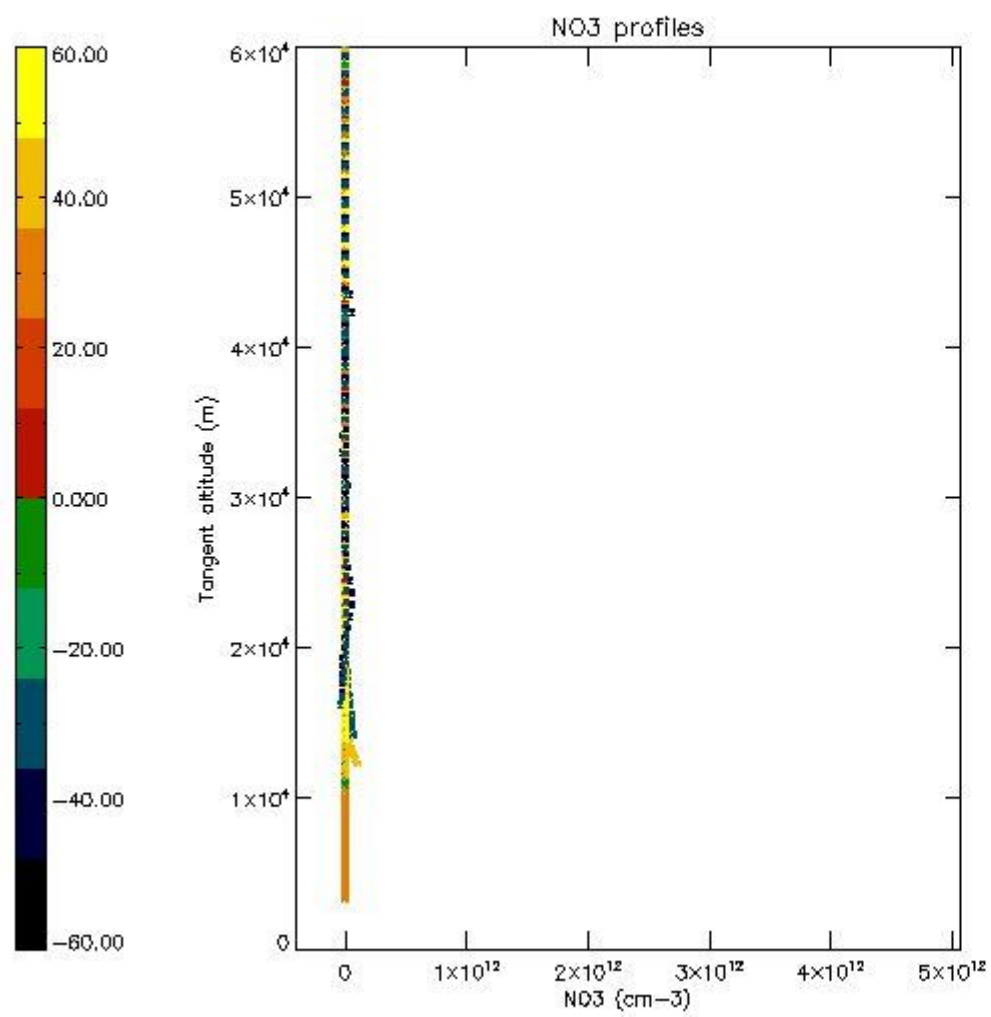
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



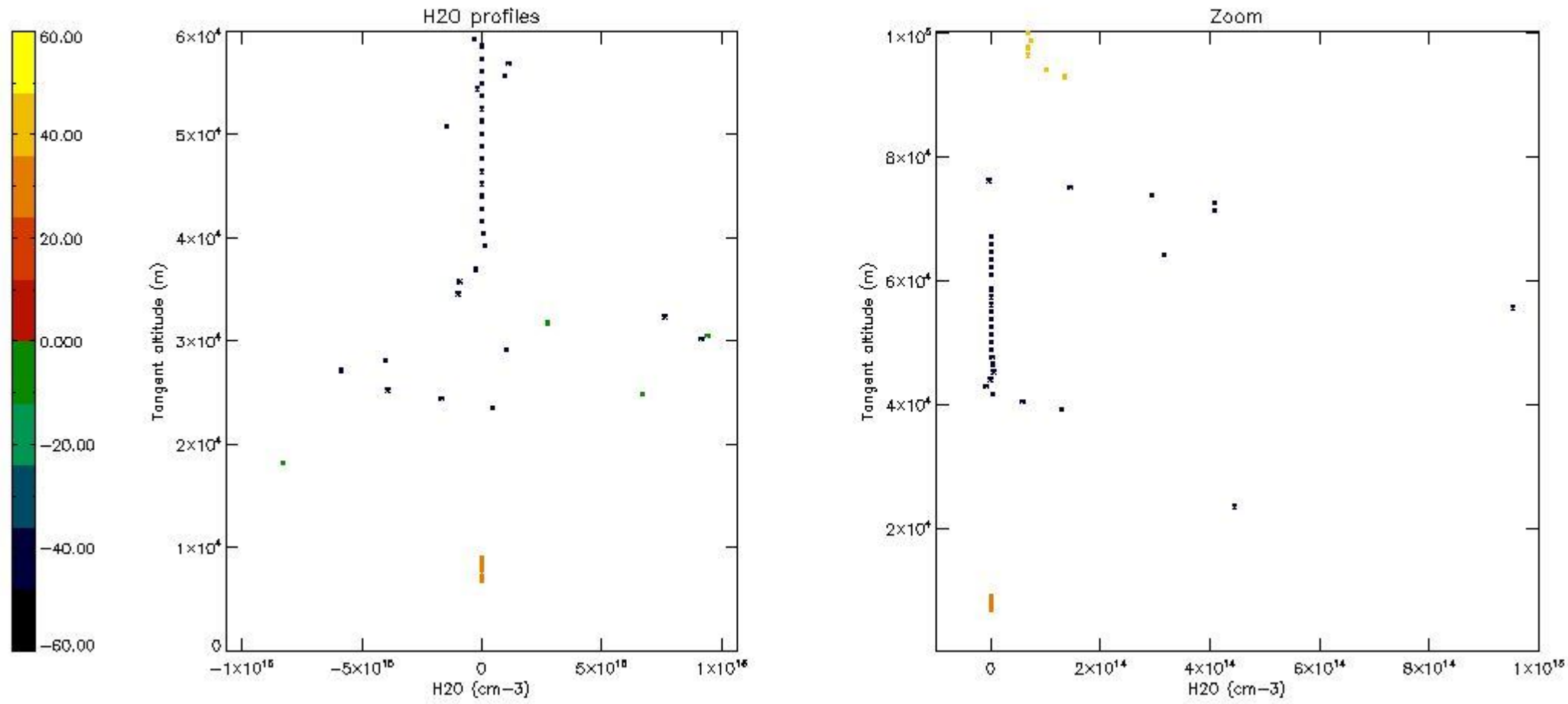
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

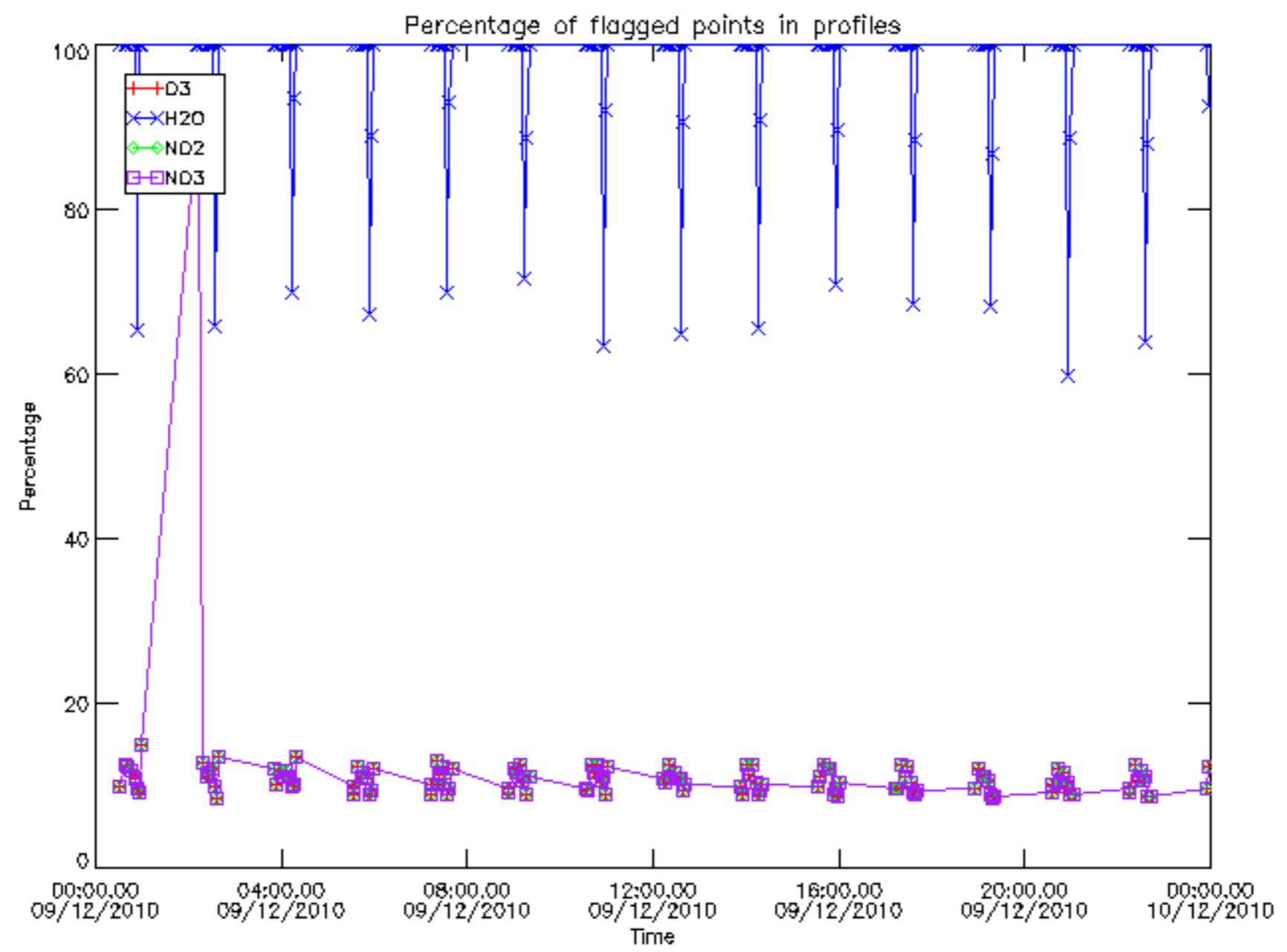
The colorbar represents the latitude.



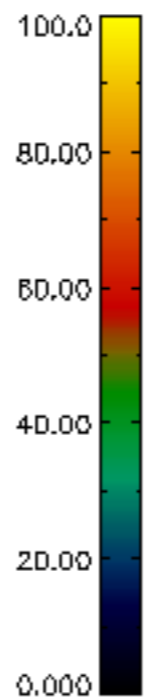
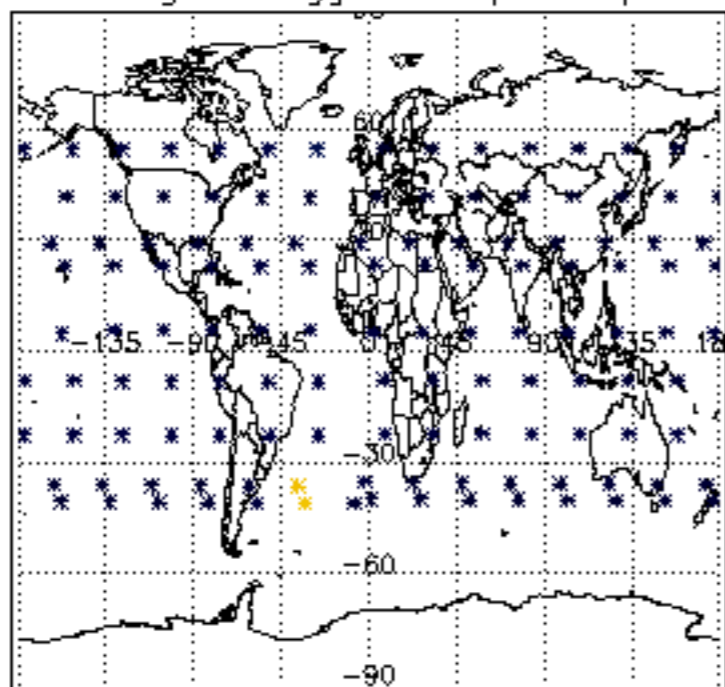
6. Auxiliary Data Files used for the production reported in section 2

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.

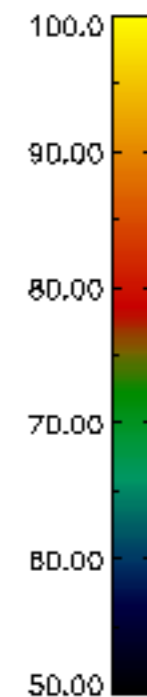
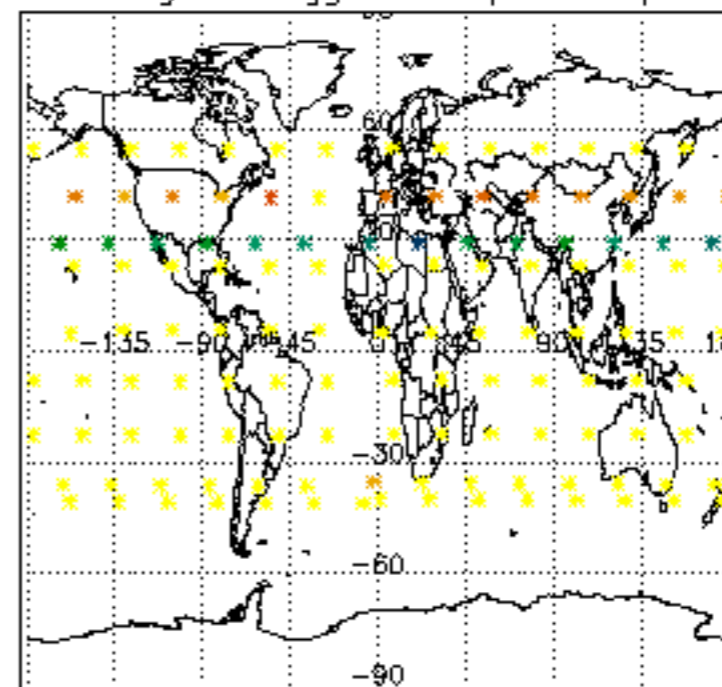
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	09-DEC-2010 00:01:33
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-DEC-2010 00:01:33
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-DEC-2010 00:01:33



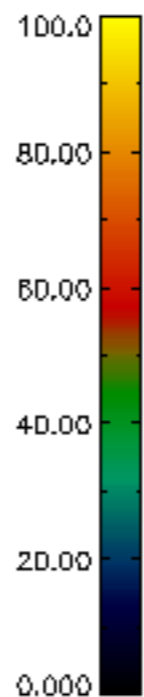
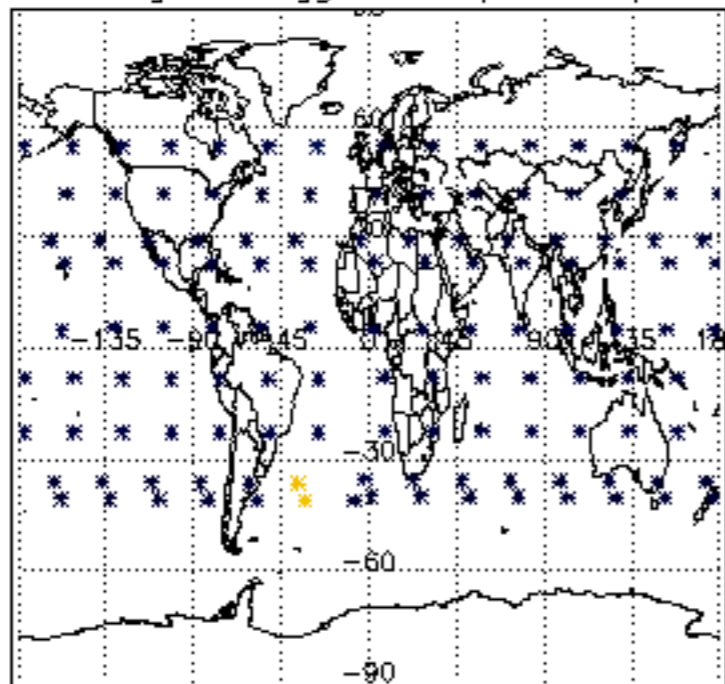
Percentage of flagged data per D3 profile



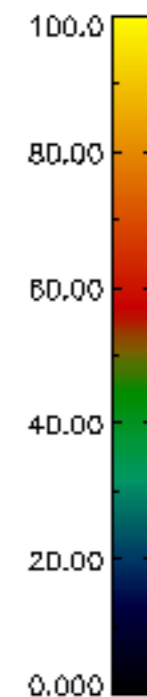
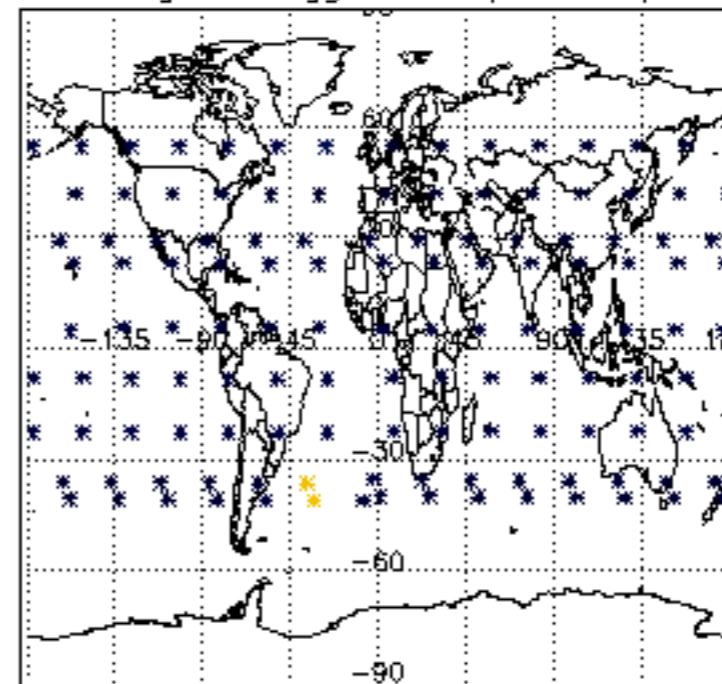
Percentage of flagged data per H2O profile

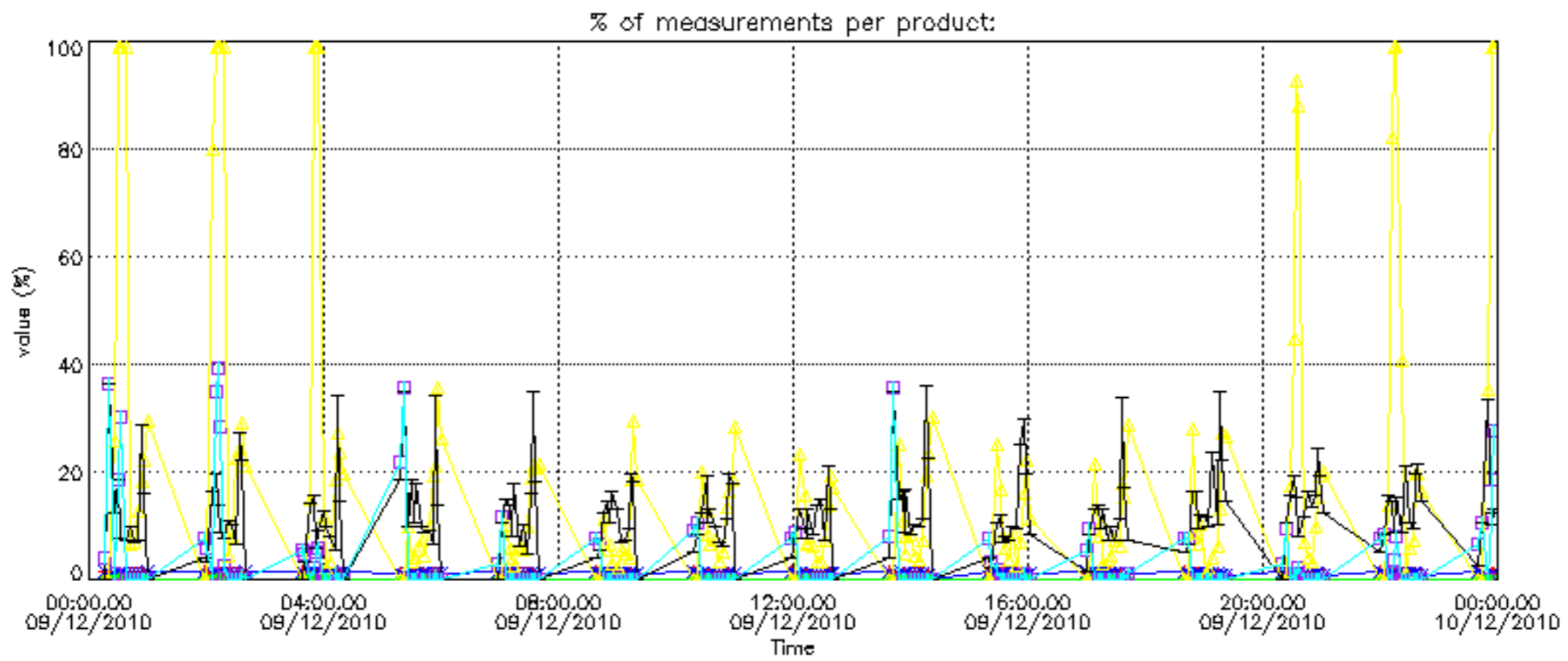


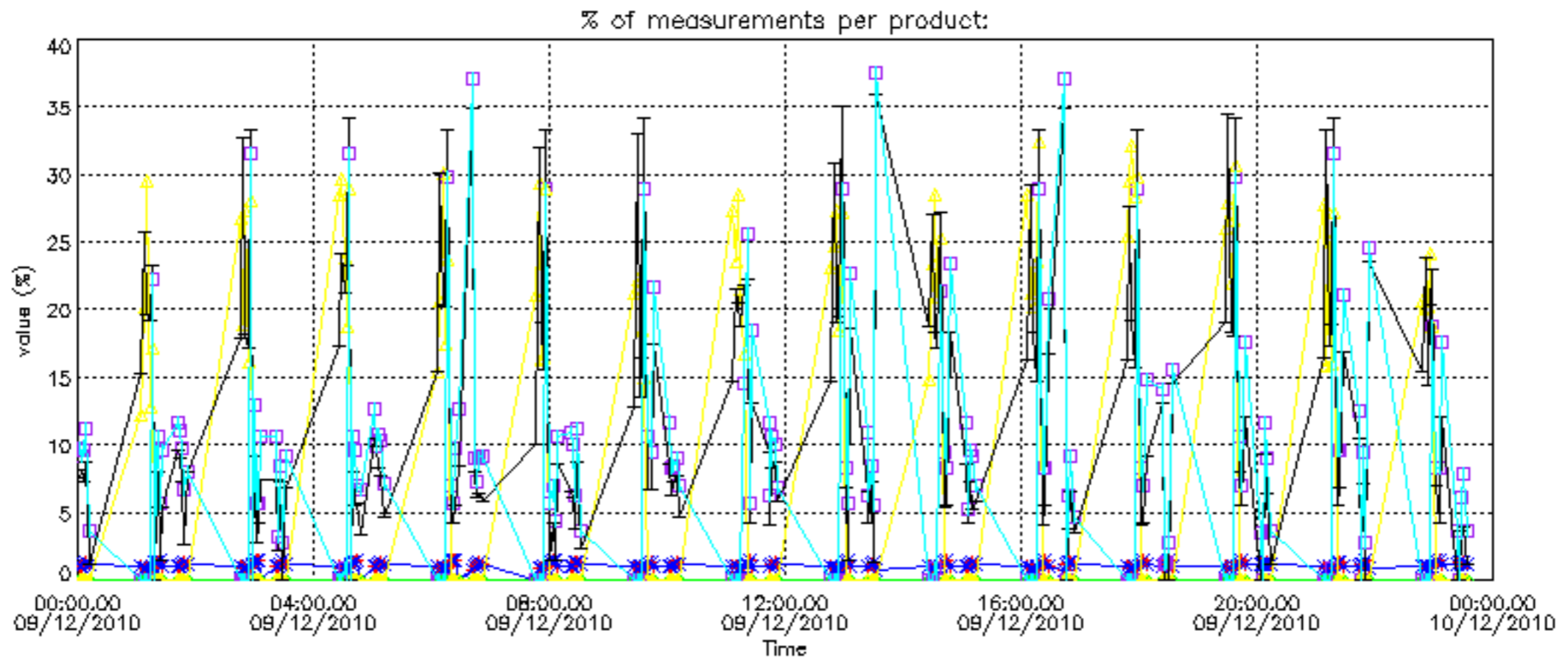
Percentage of flagged data per NO2 profile



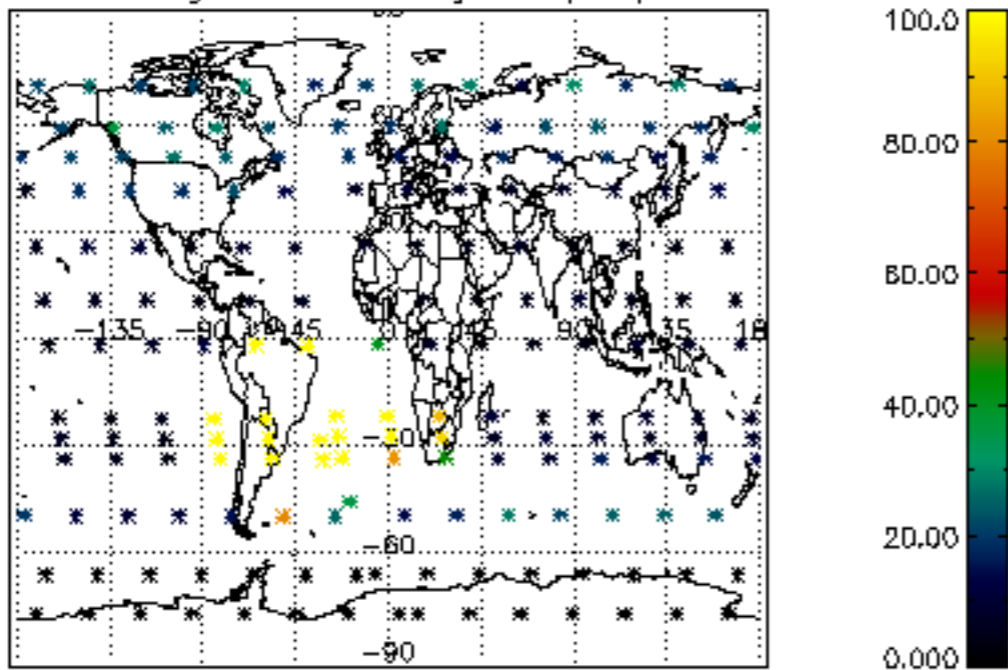
Percentage of flagged data per NO3 profile



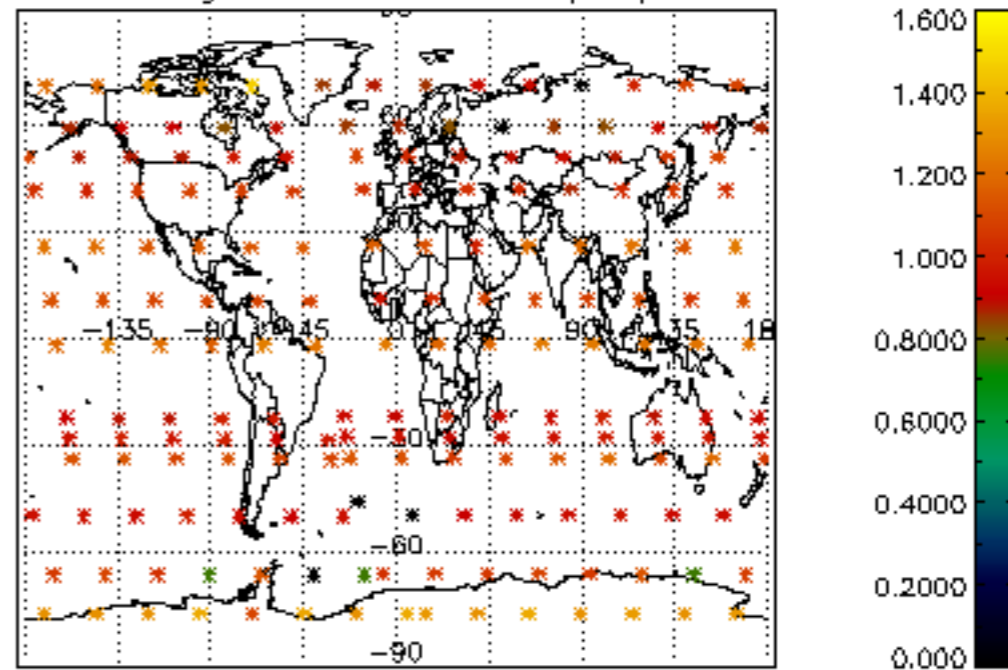




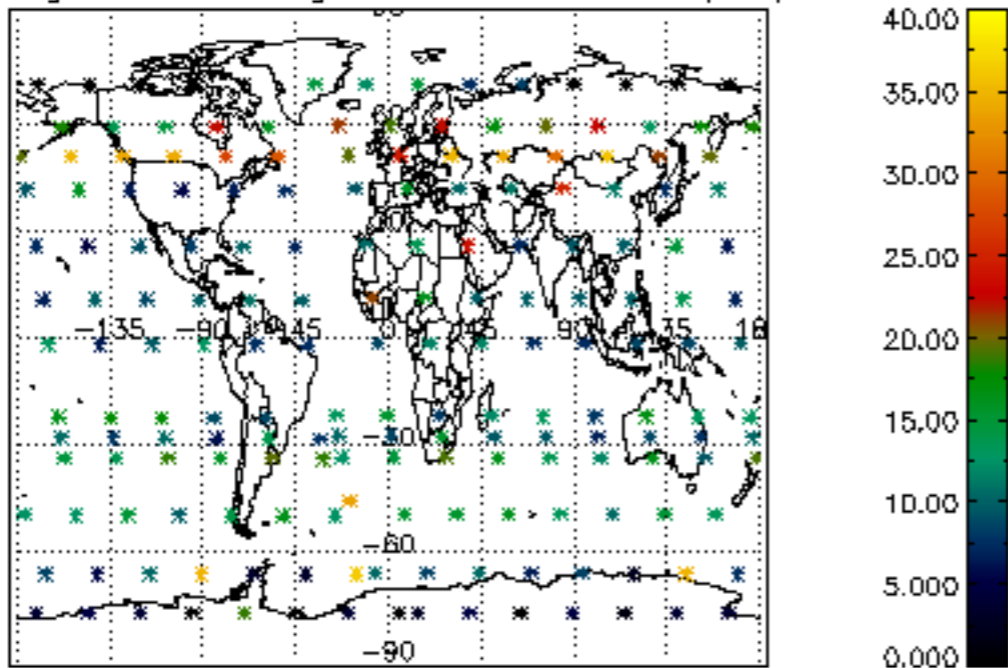
Percentage of cosmic ray hits per profile



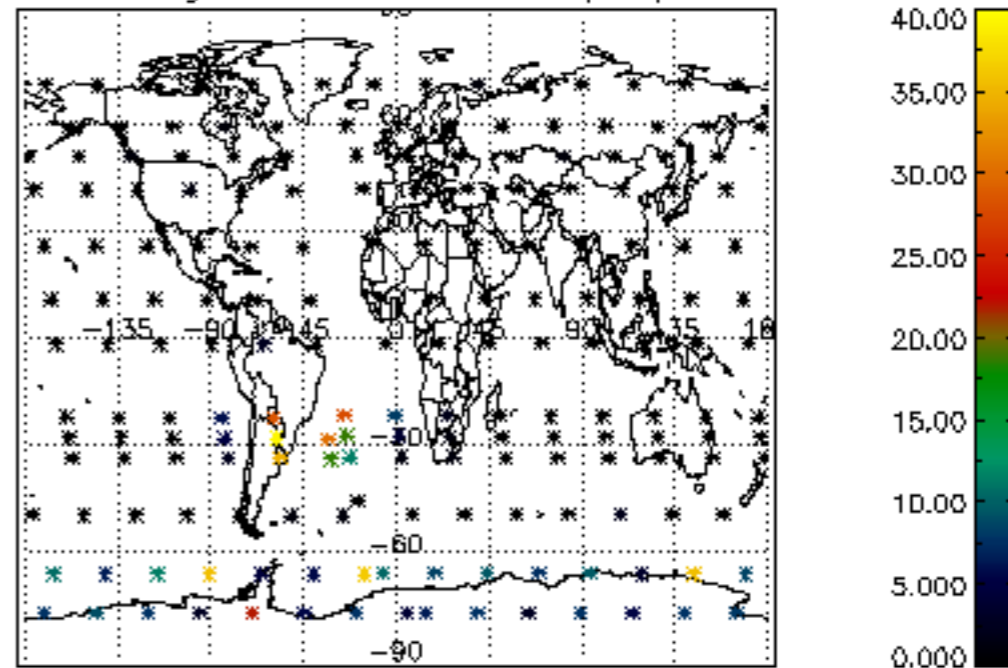
Percentage of datation errors per profile



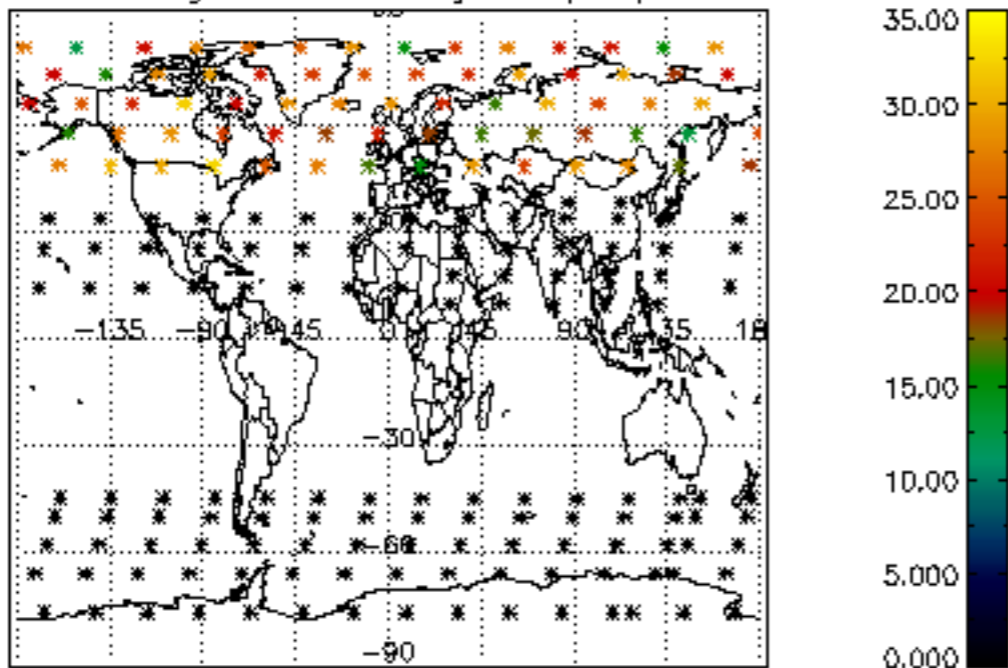
Percentage of star falling outside central band per profile



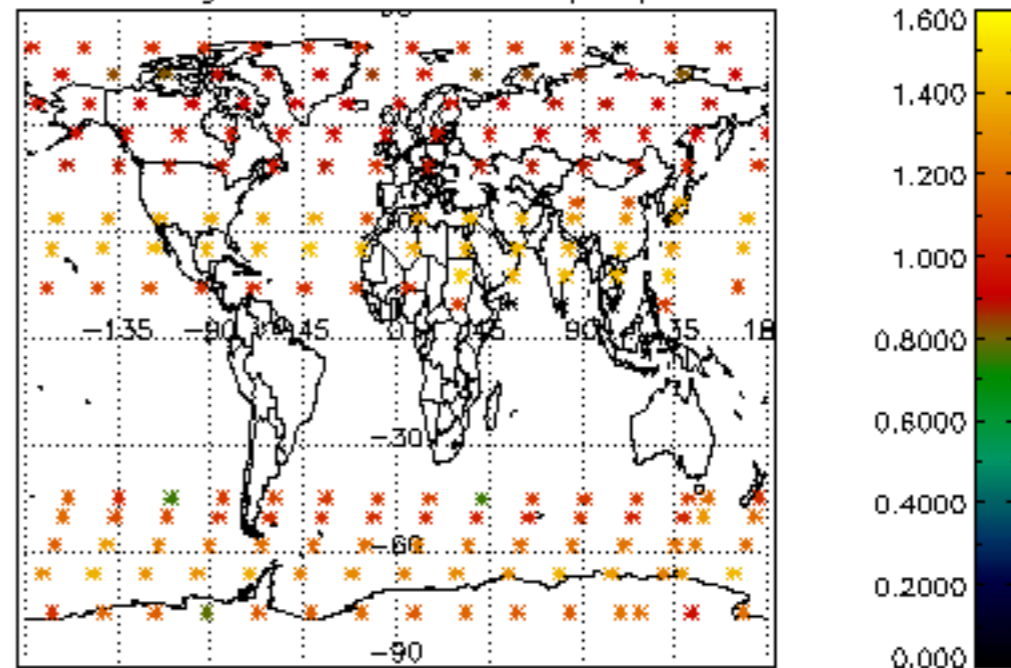
Percentage of saturation errors per profile



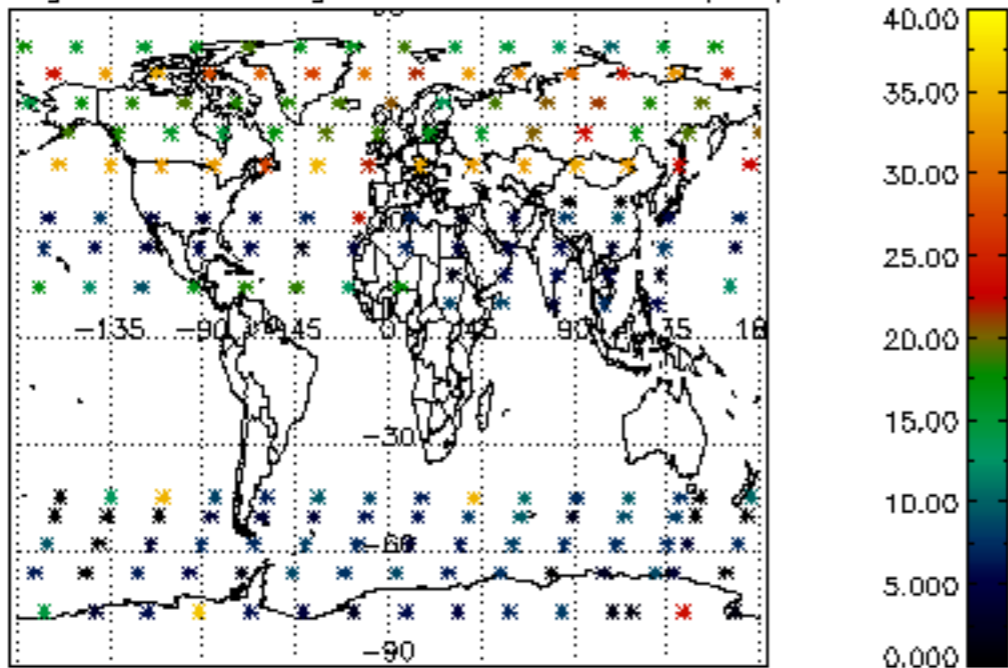
Percentage of cosmic ray hits per profile



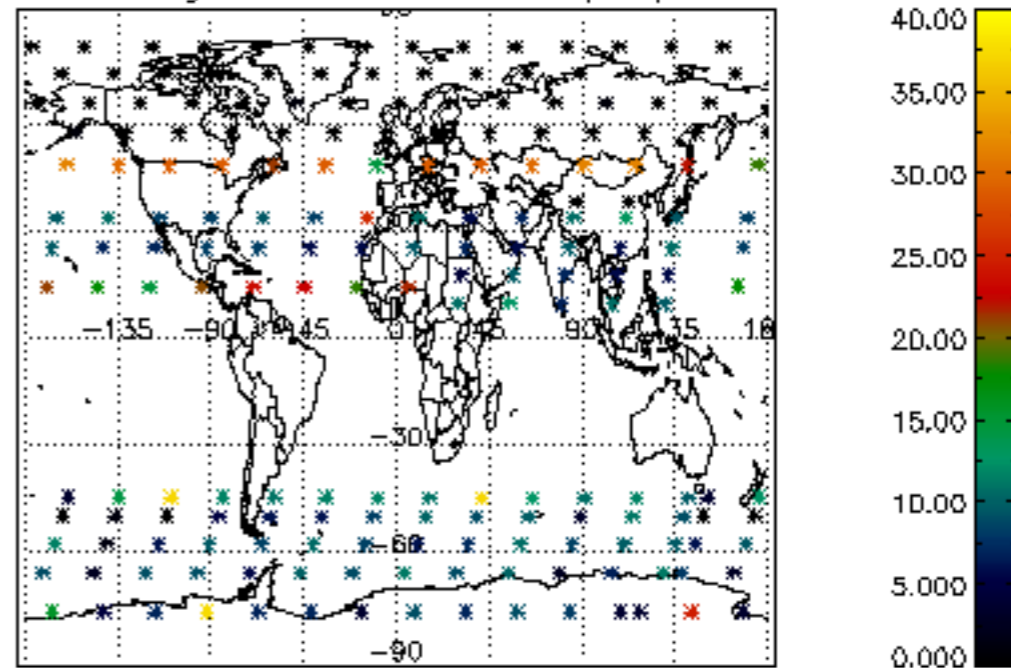
Percentage of datation errors per profile

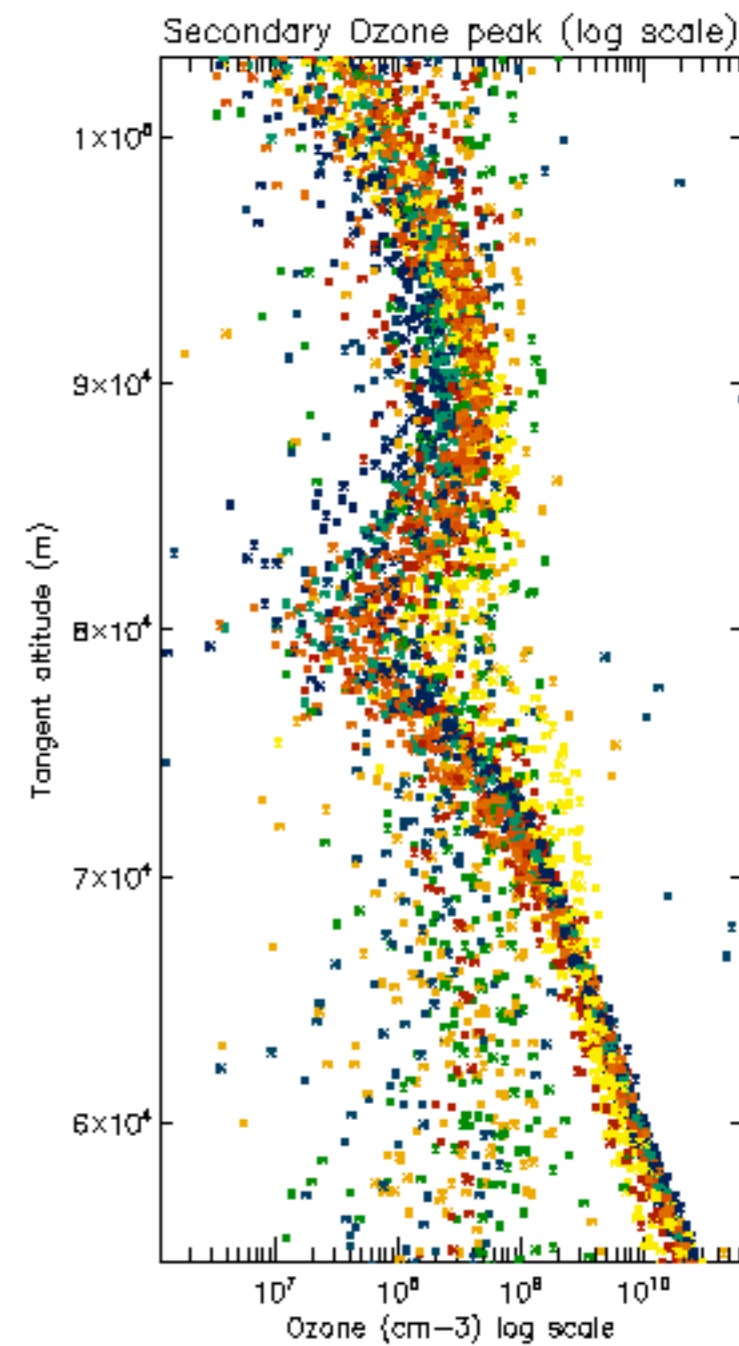
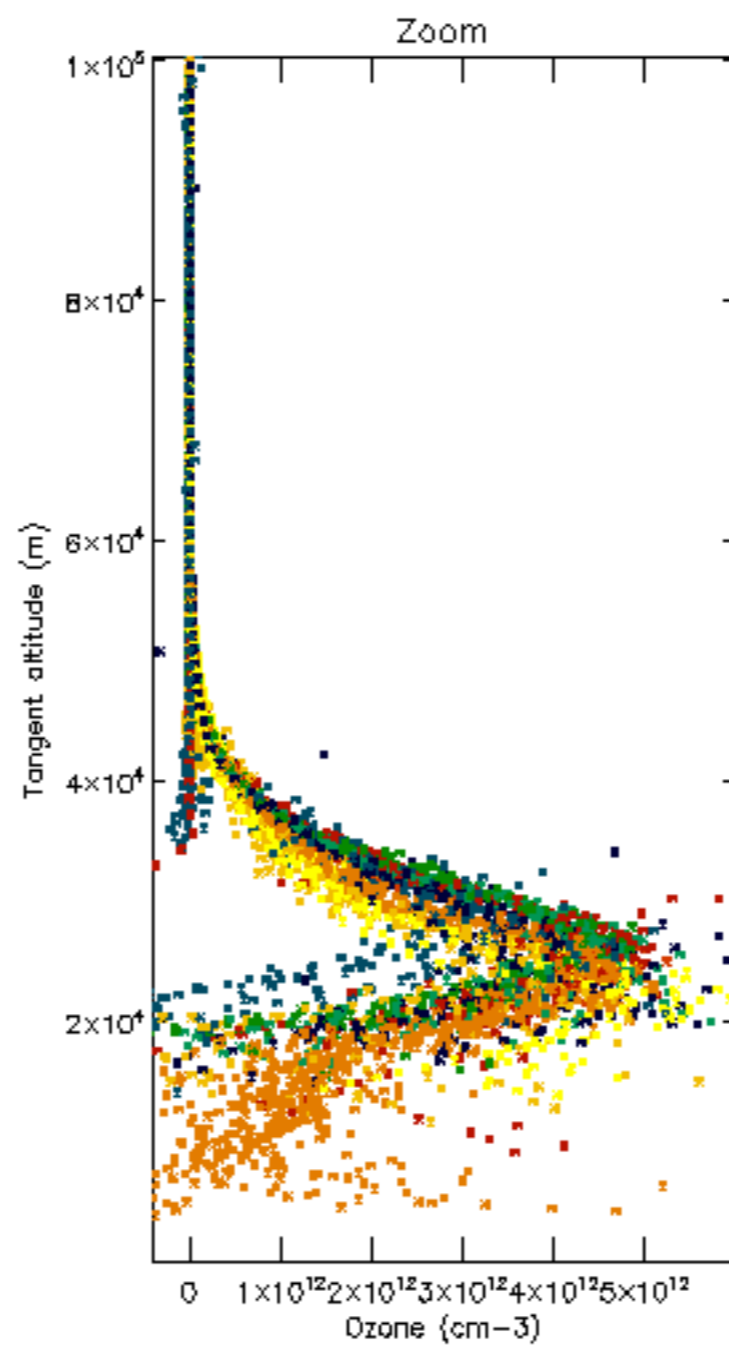
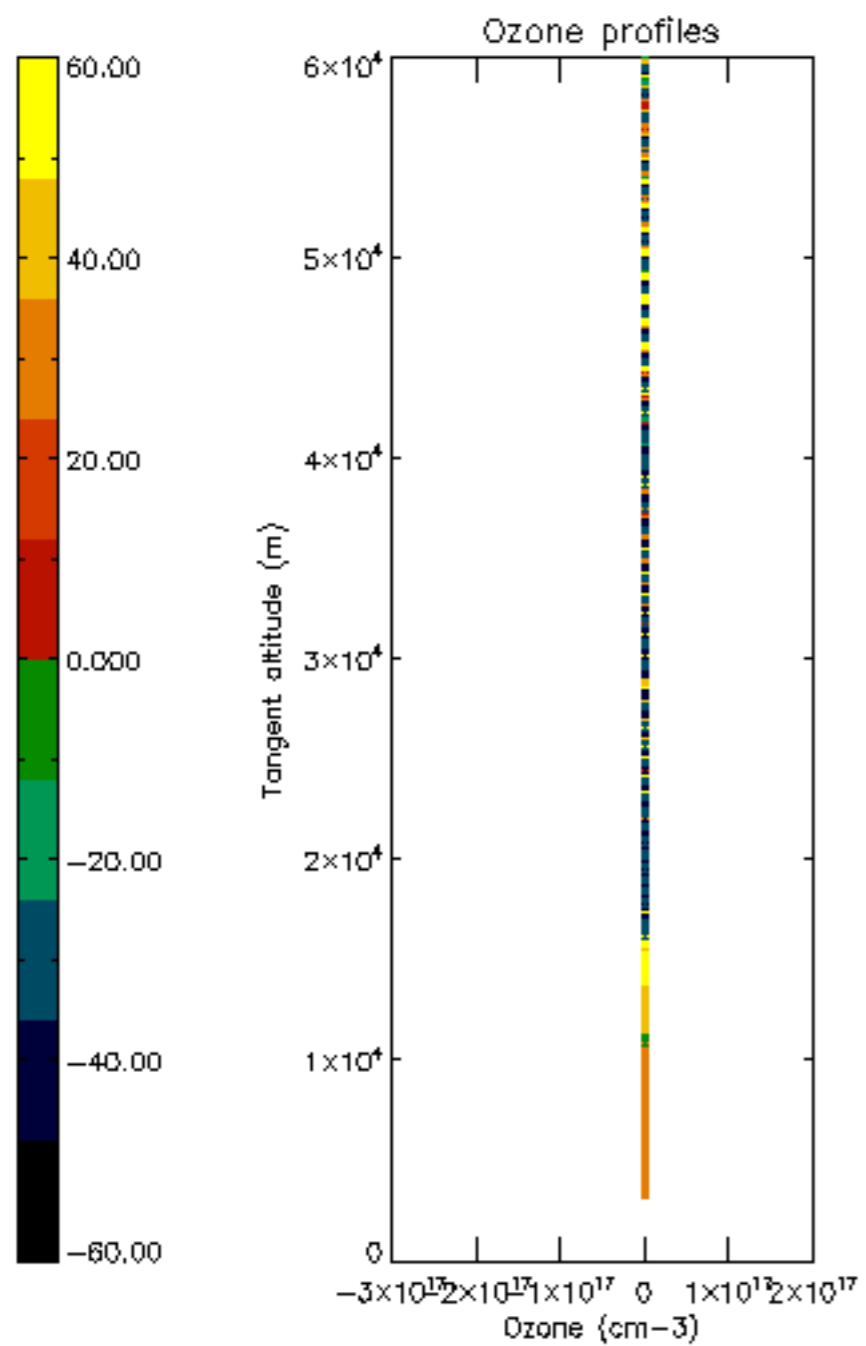


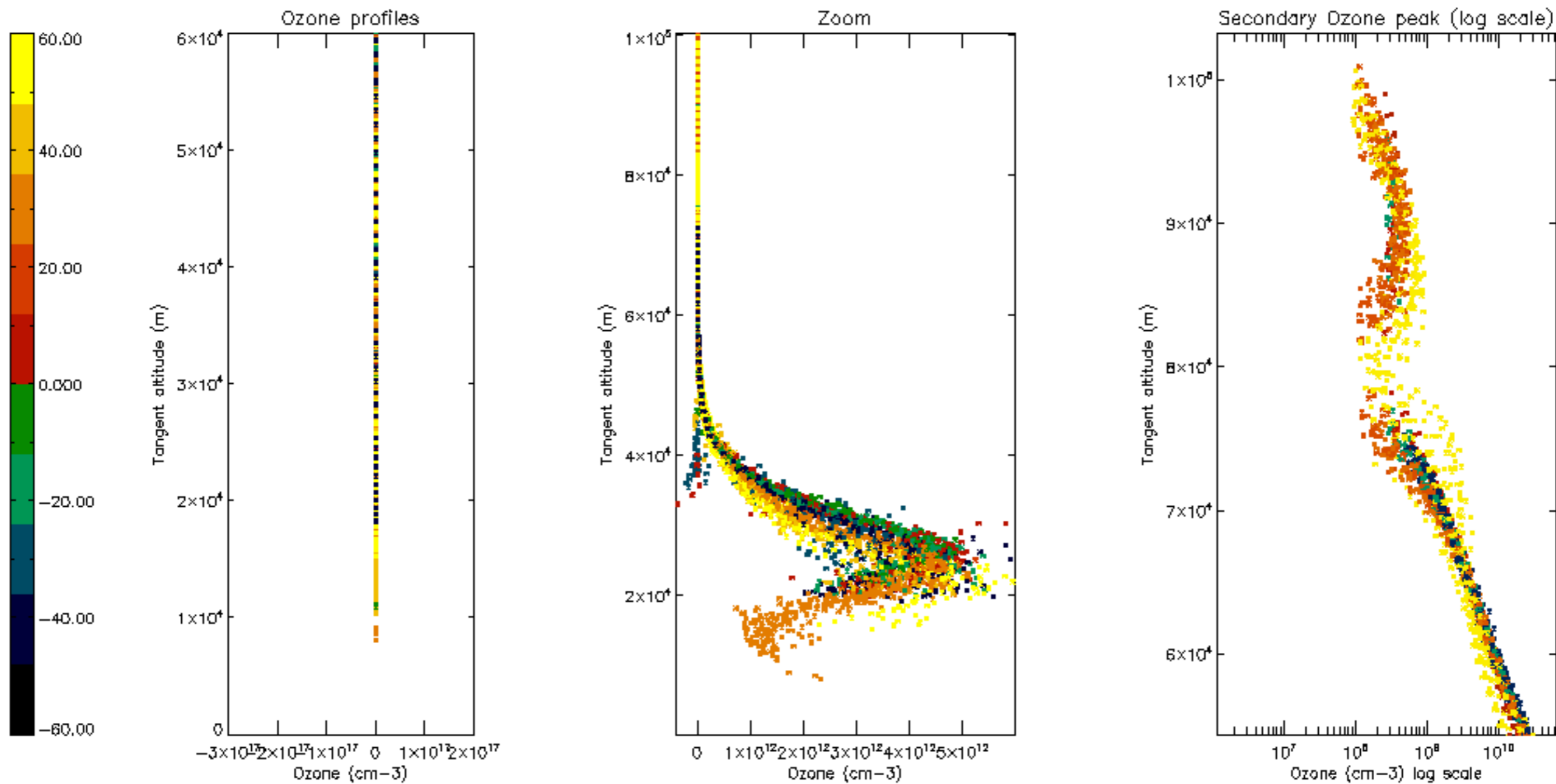
Percentage of star falling outside central band per profile

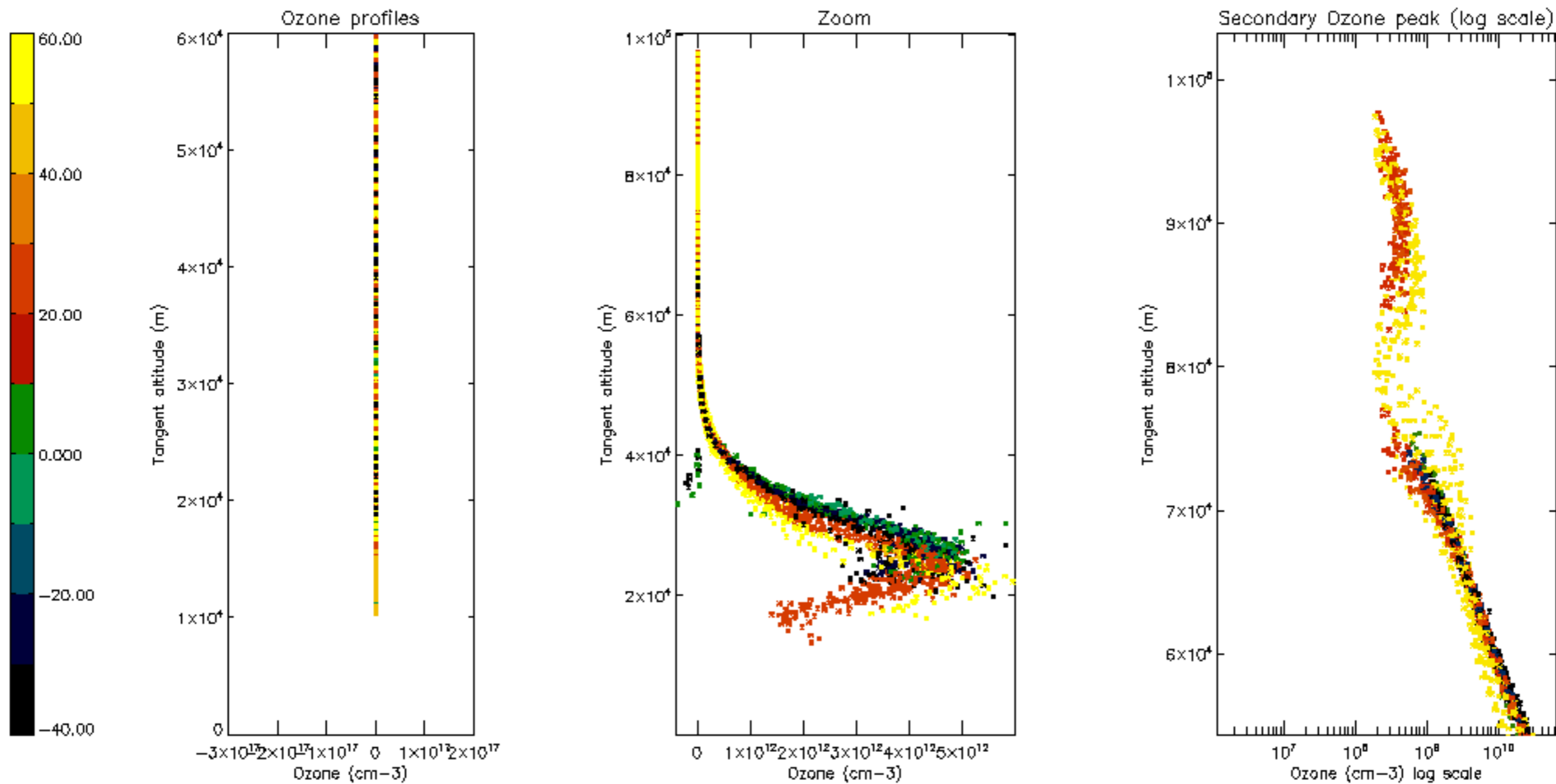


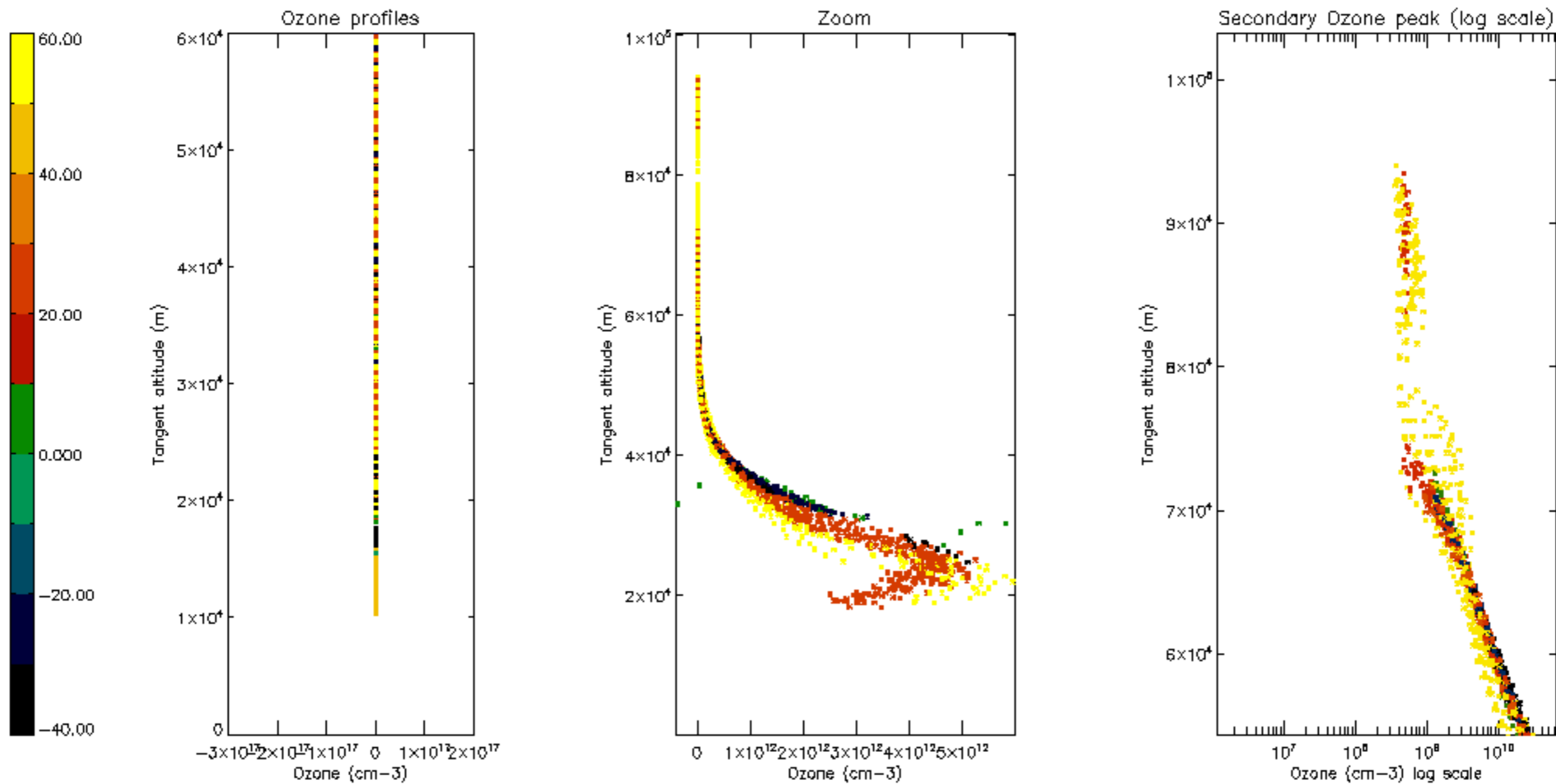
Percentage of saturation errors per profile

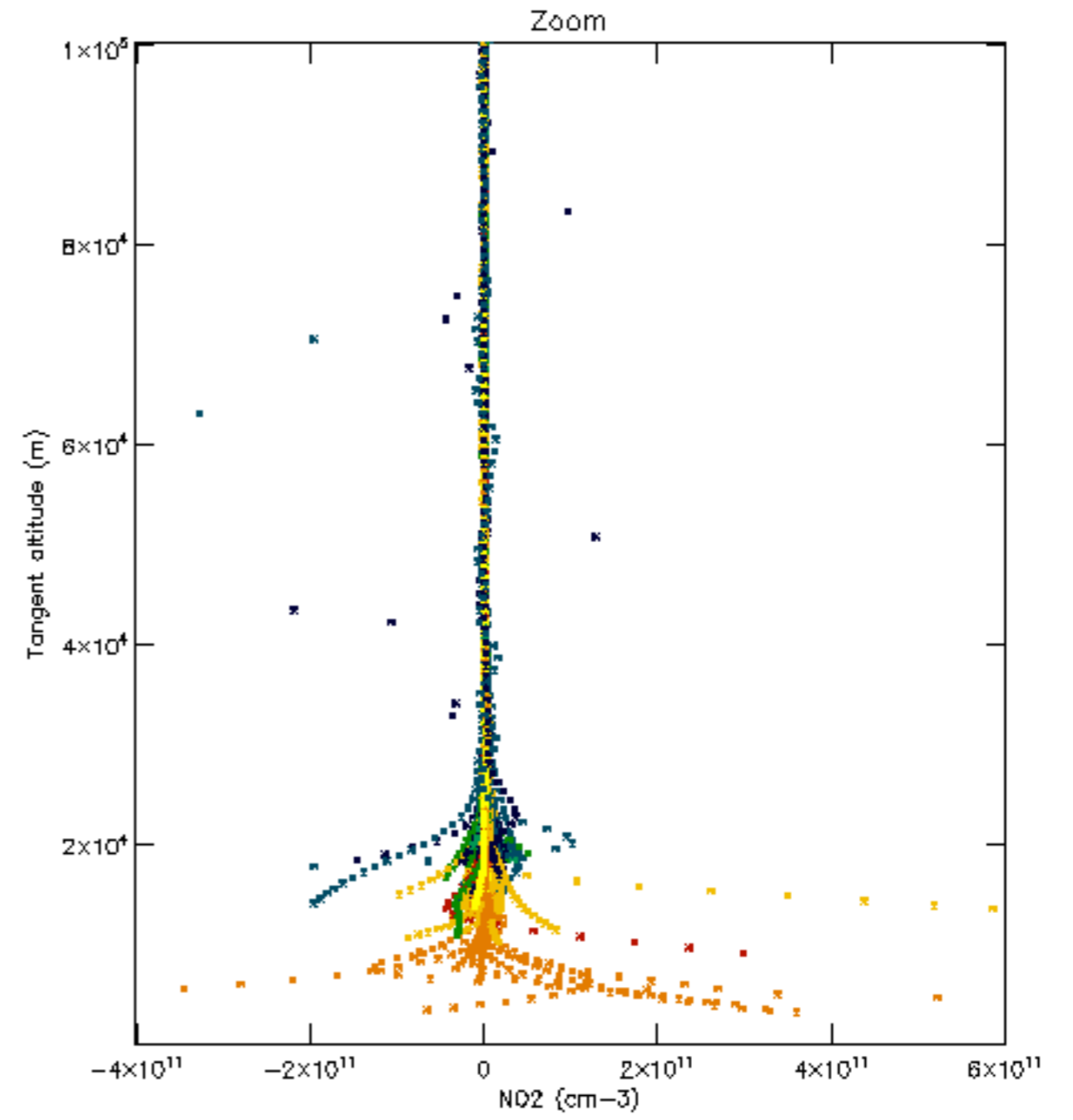
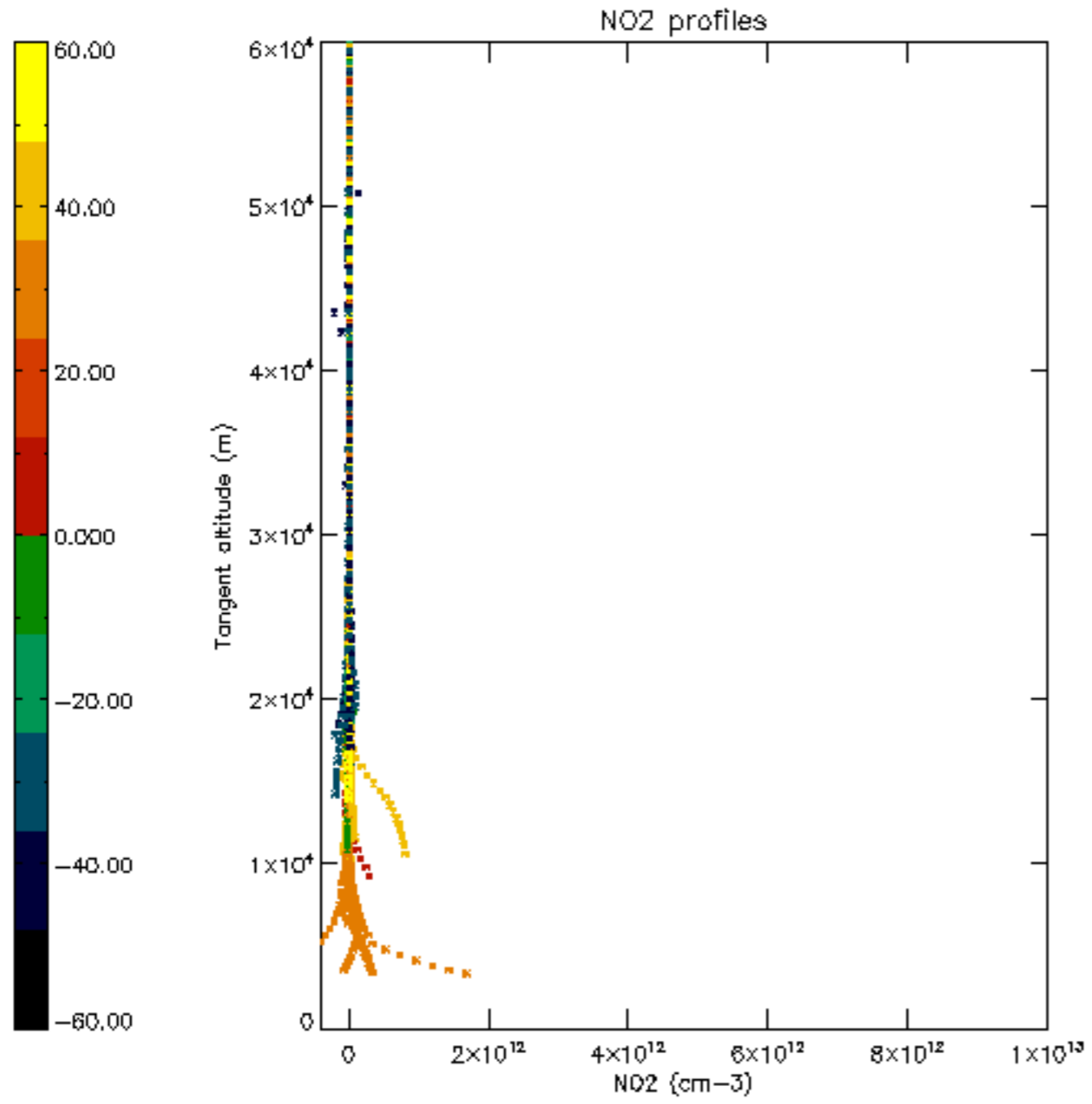


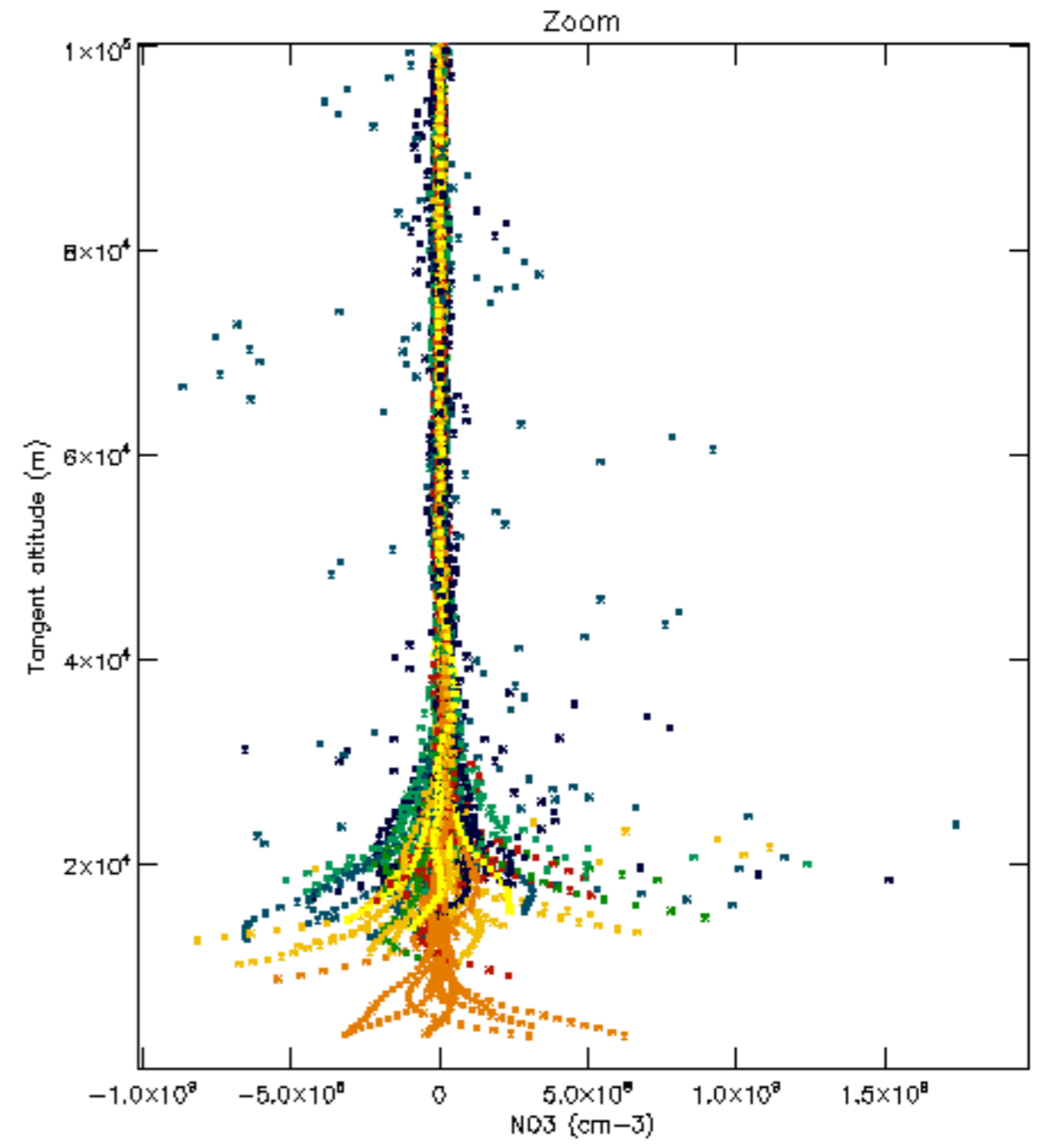
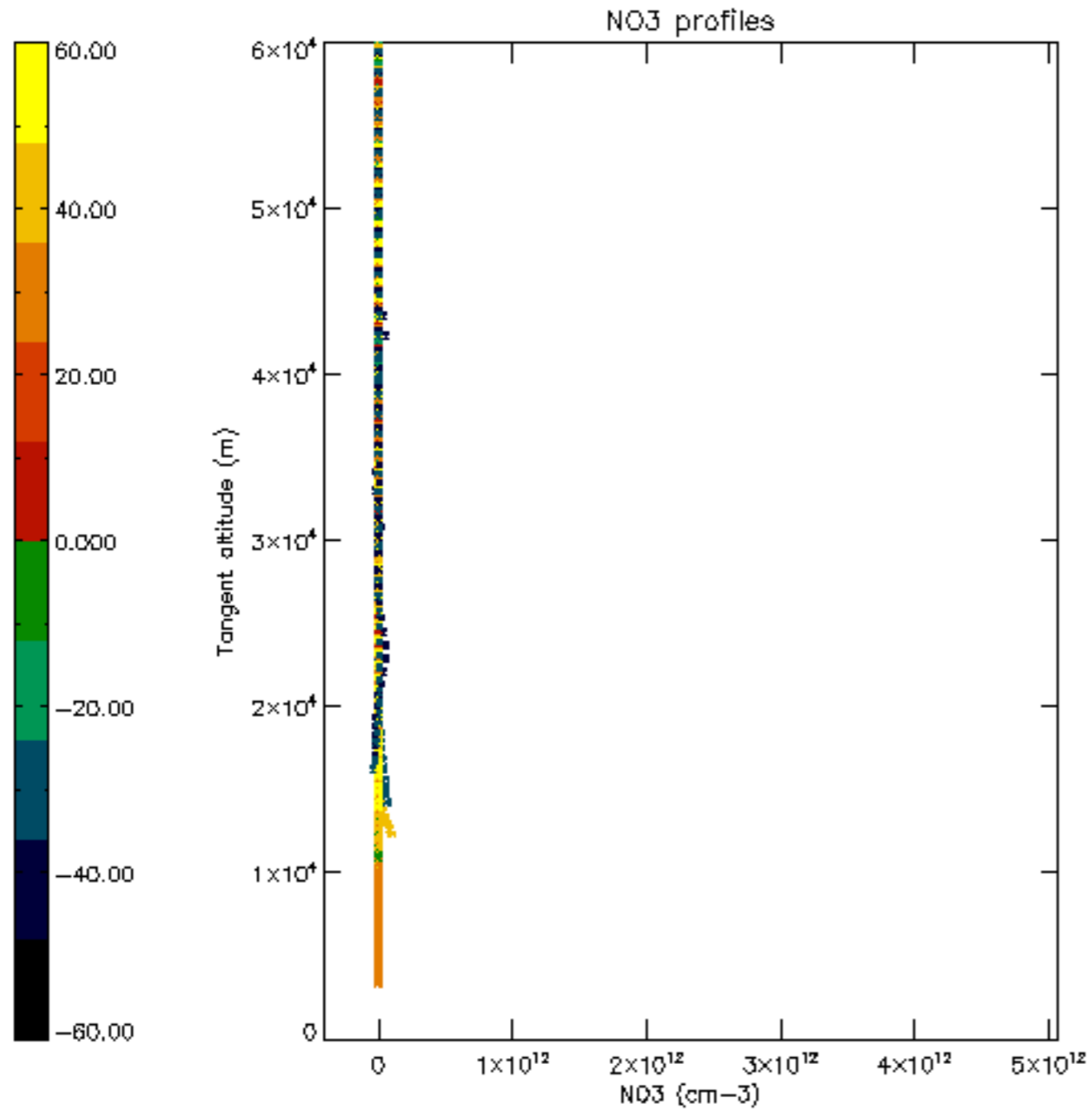


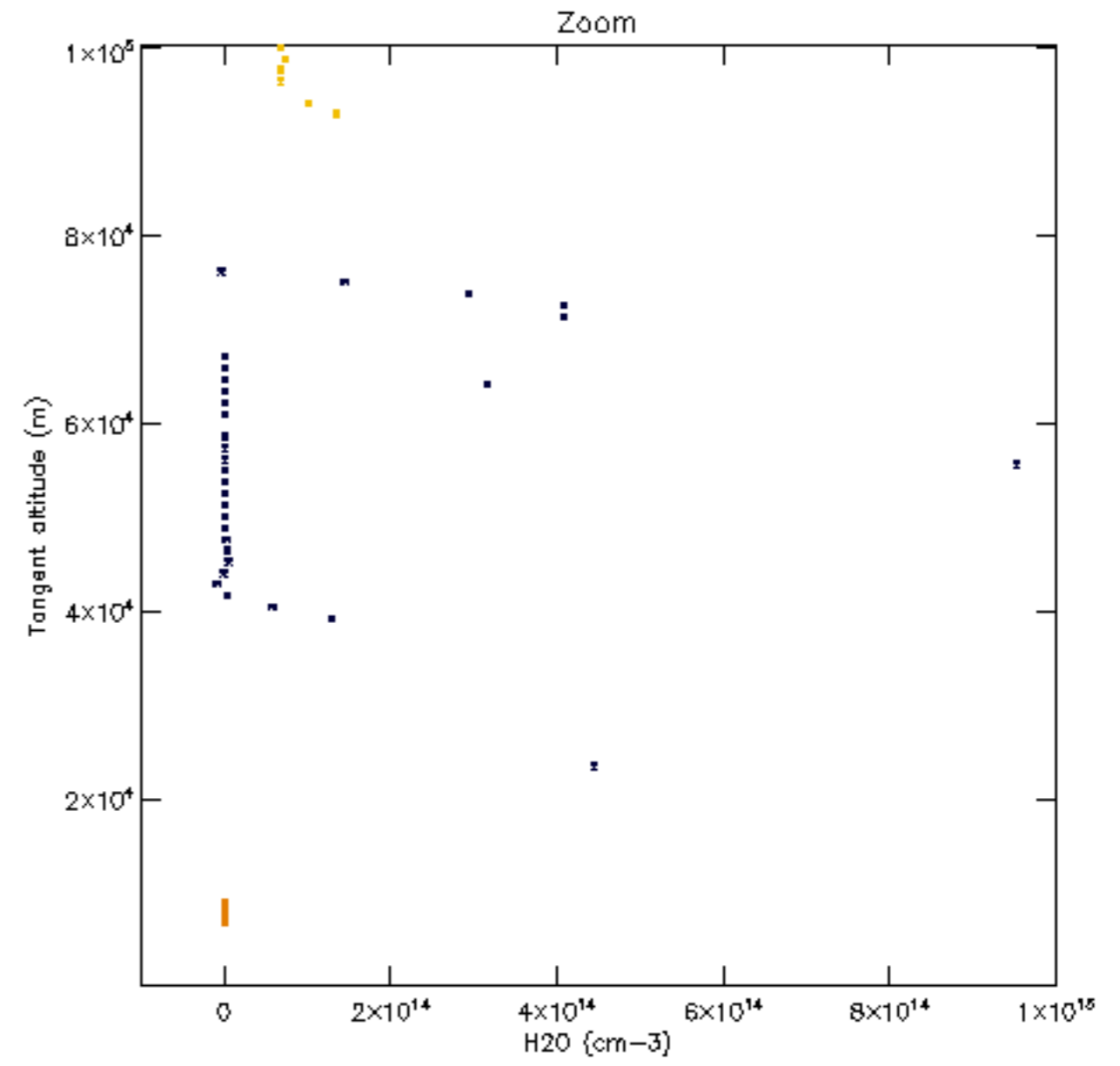
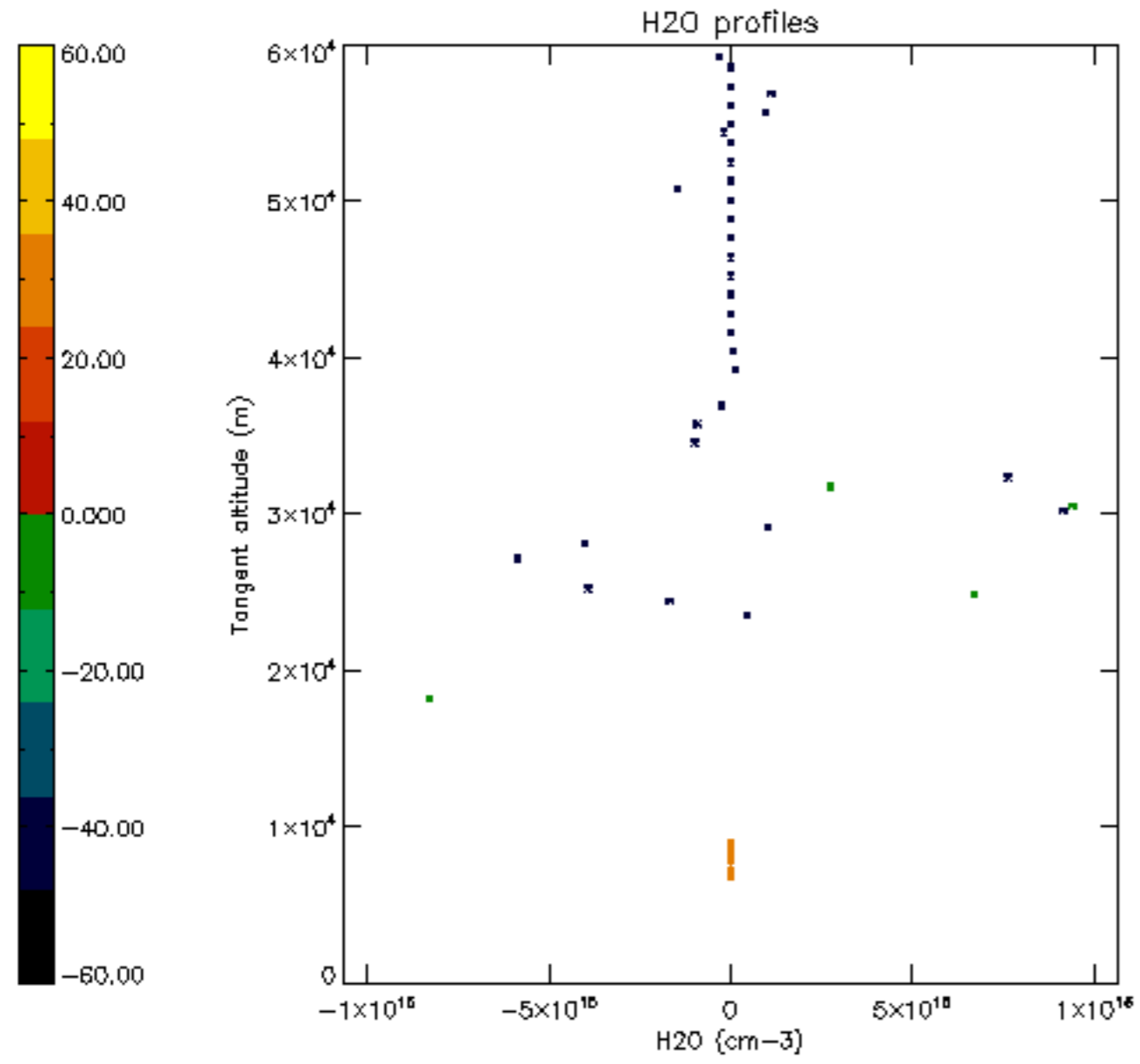


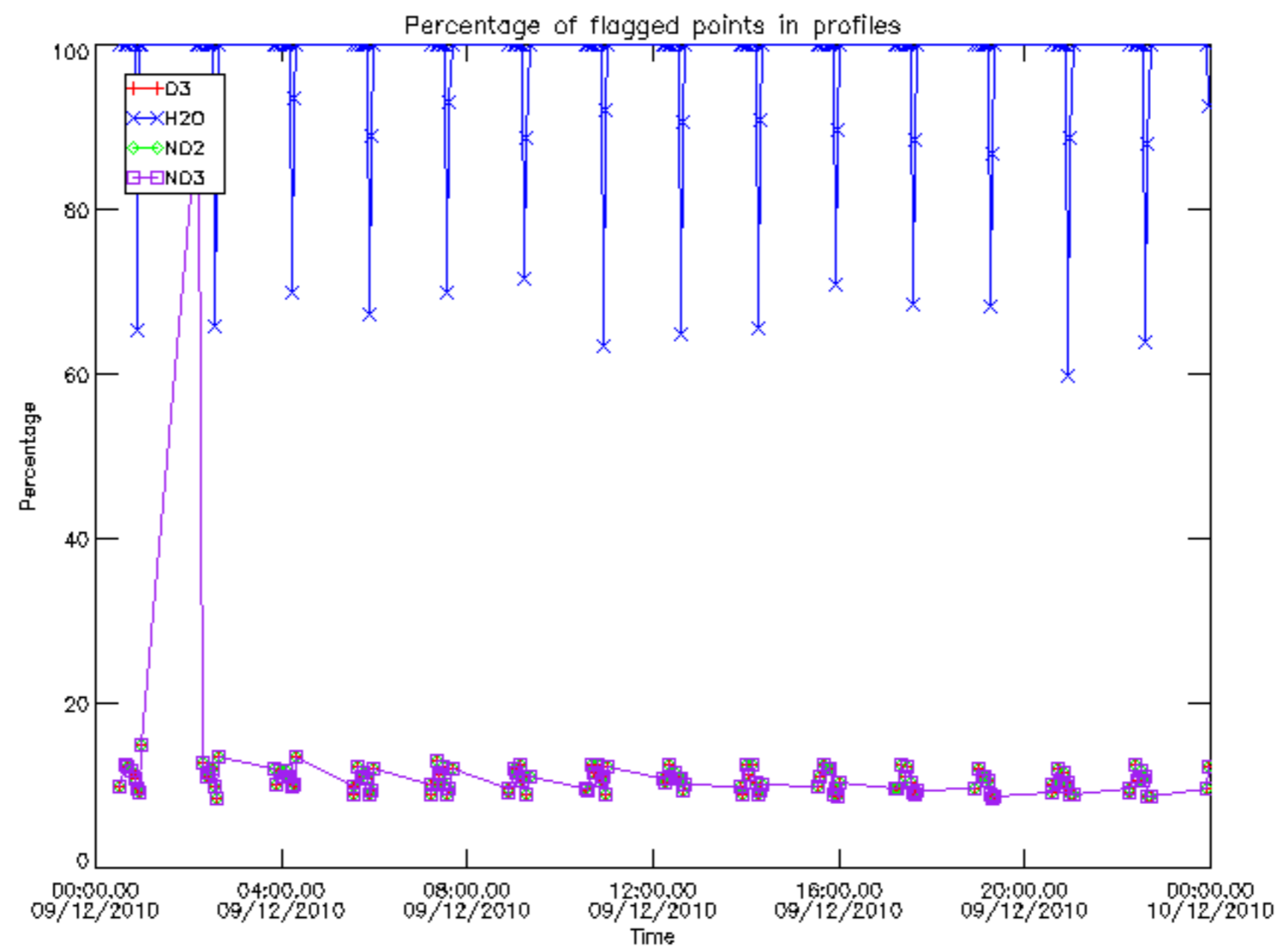




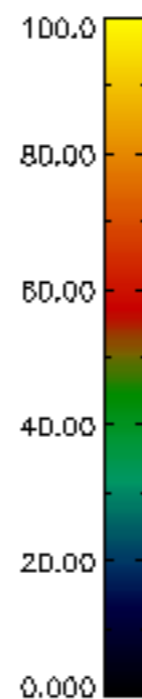
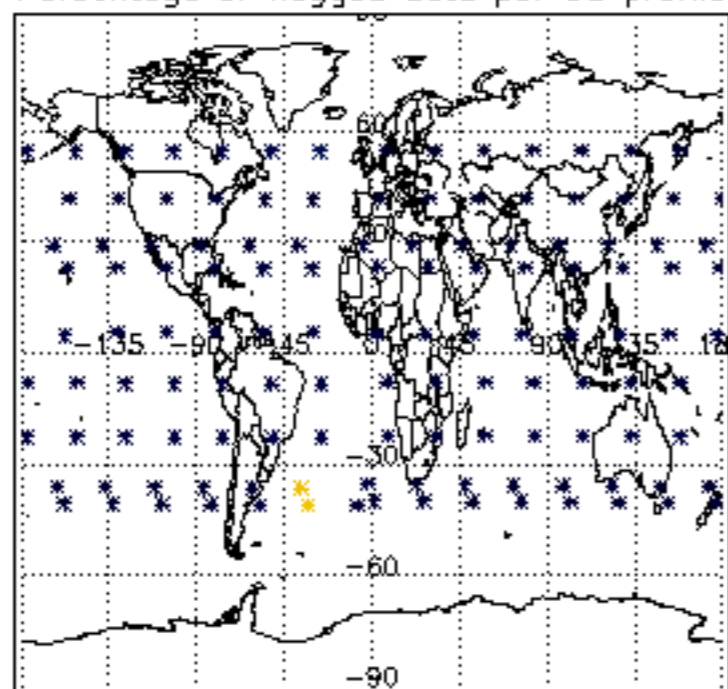




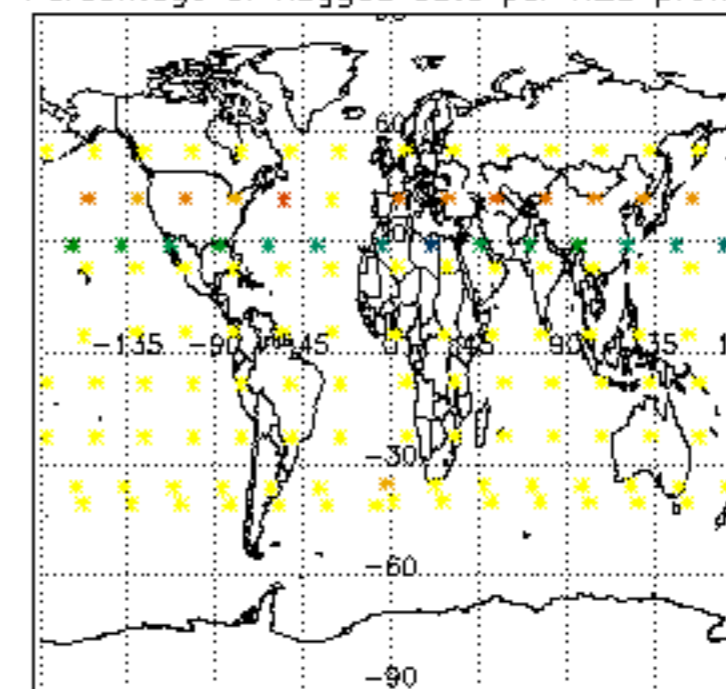




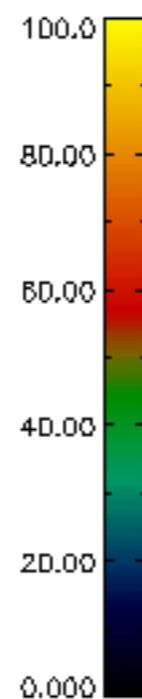
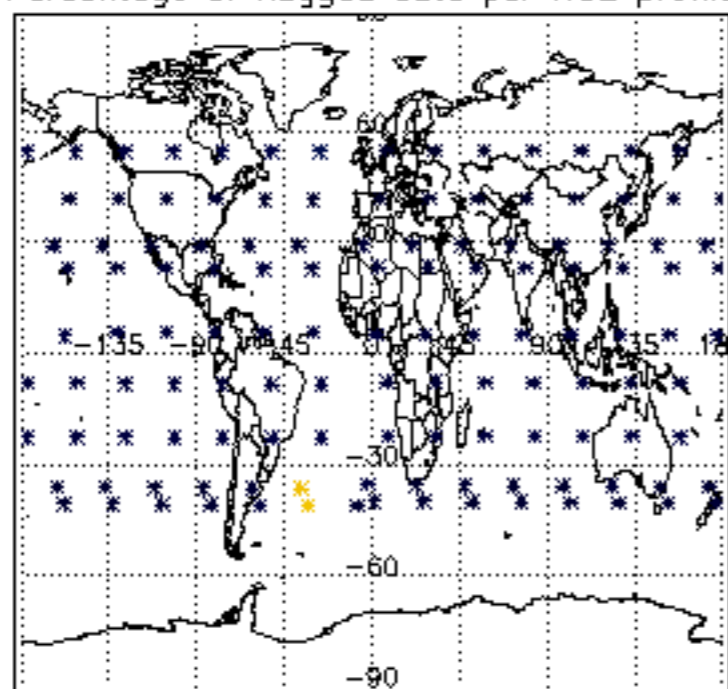
Percentage of flagged data per D3 profile



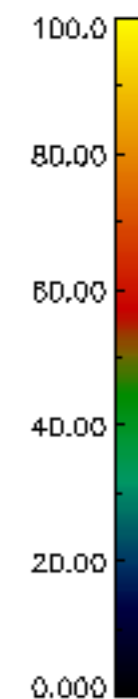
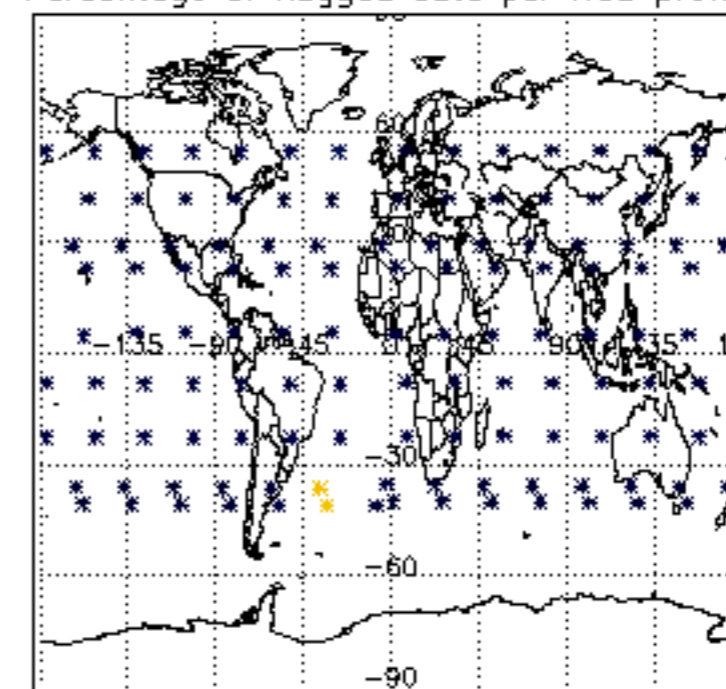
Percentage of flagged data per H2O profile

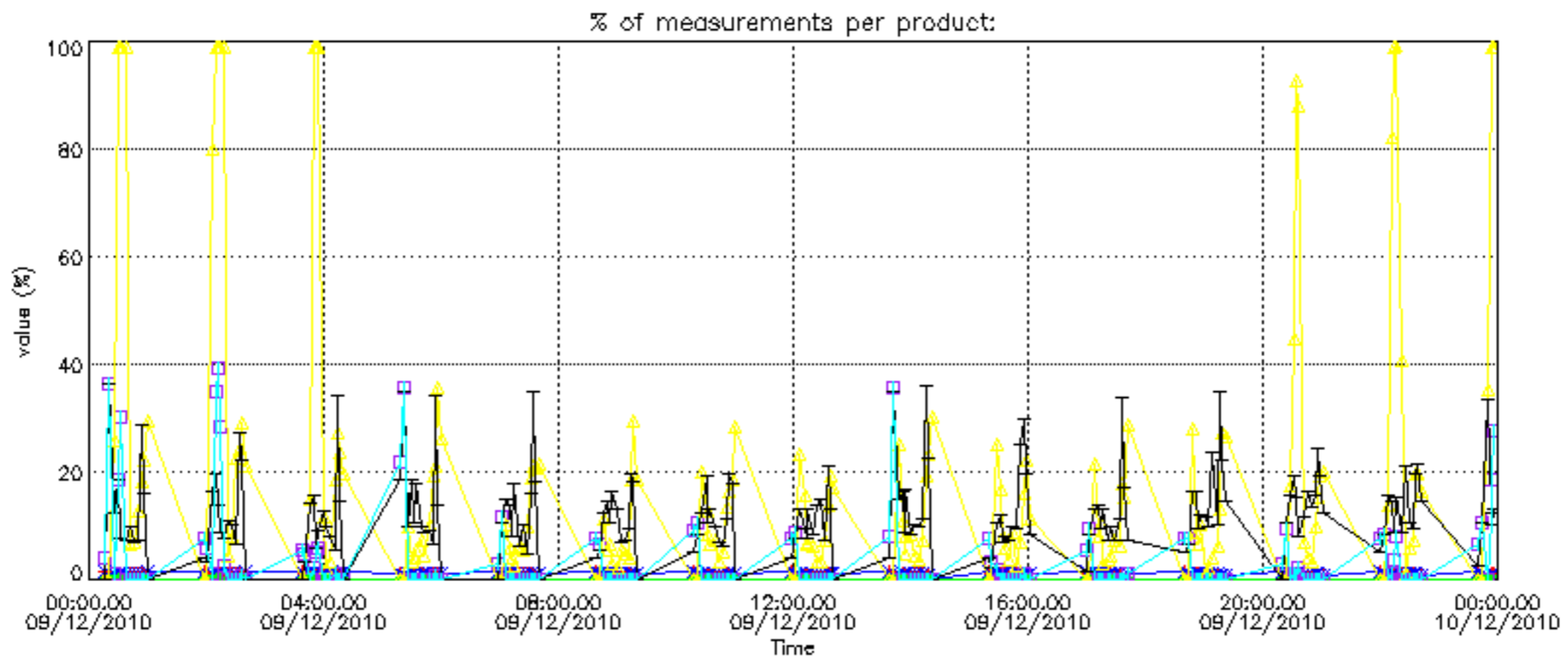


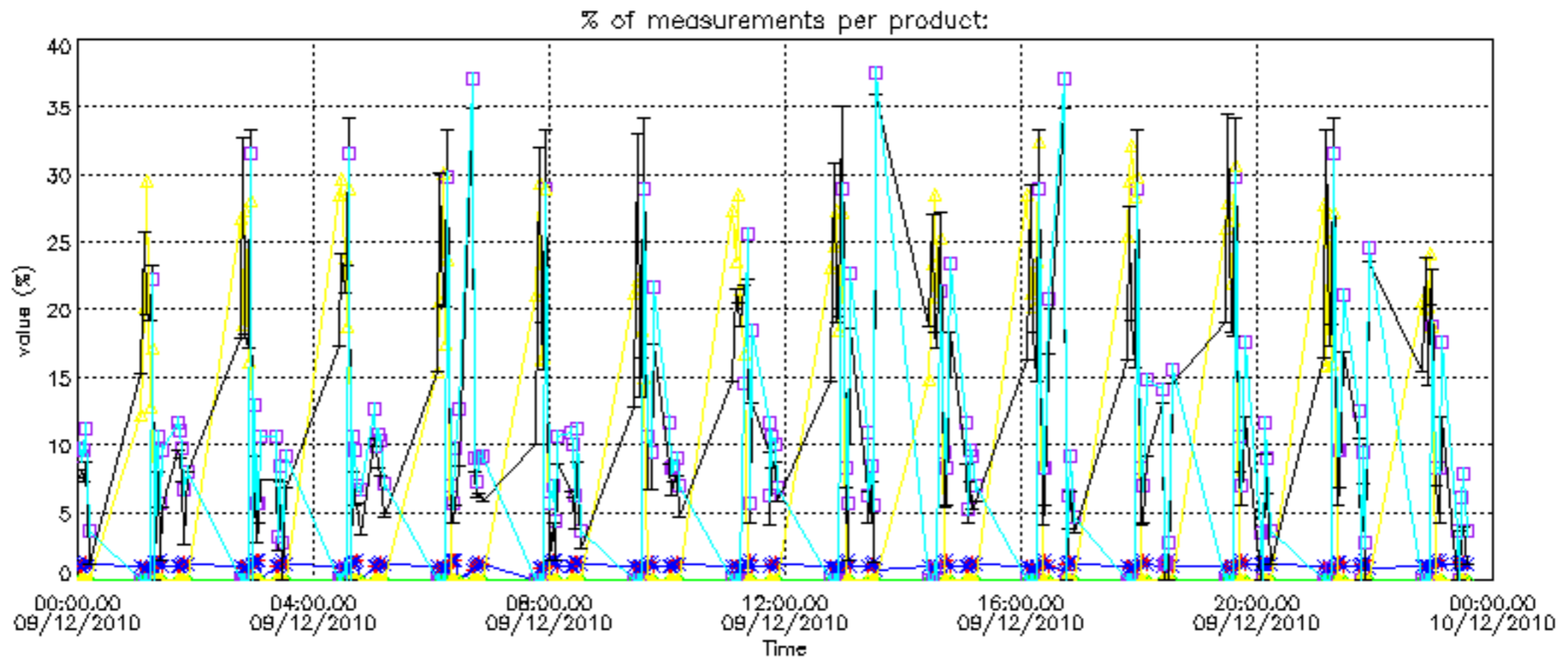
Percentage of flagged data per NO2 profile



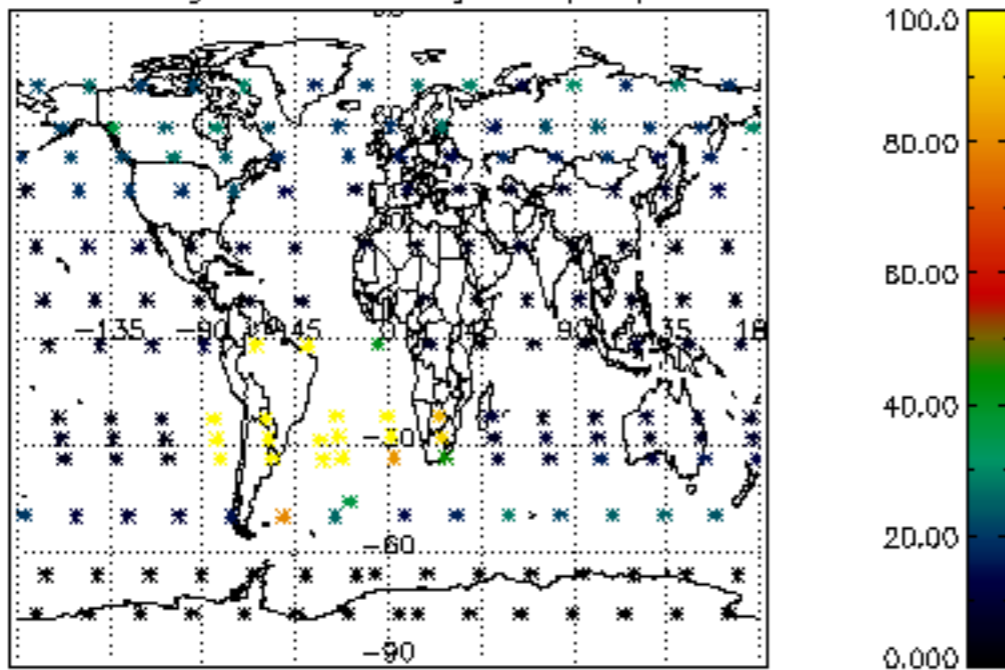
Percentage of flagged data per NO3 profile



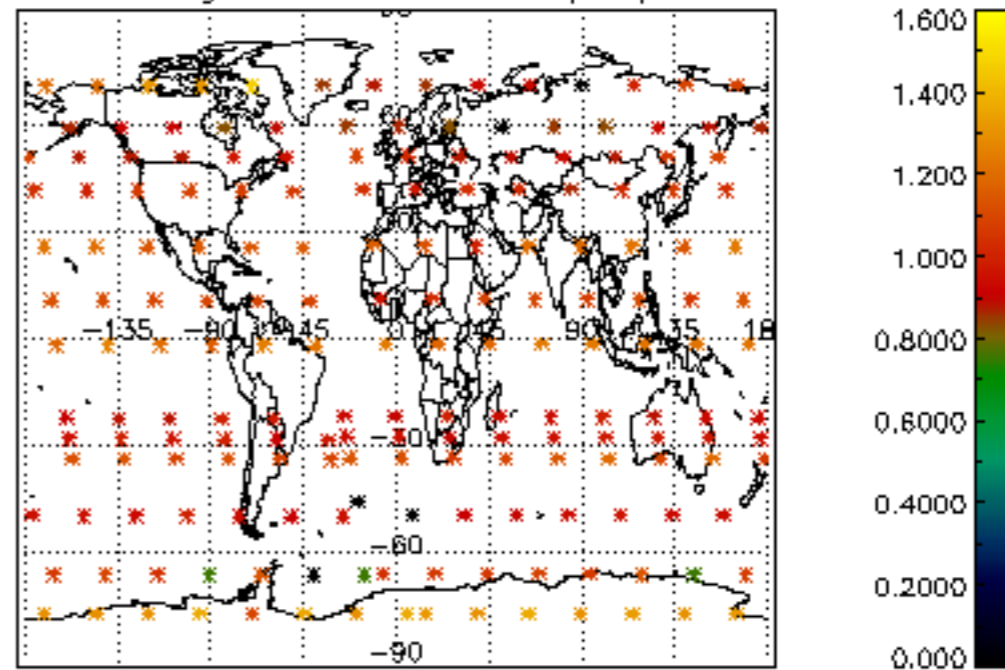




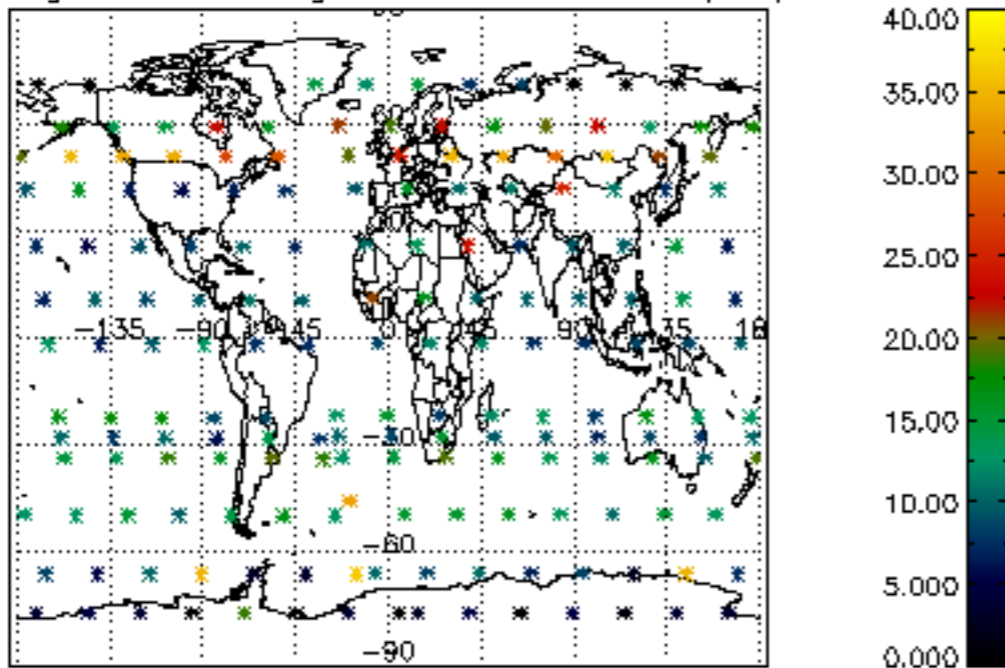
Percentage of cosmic ray hits per profile



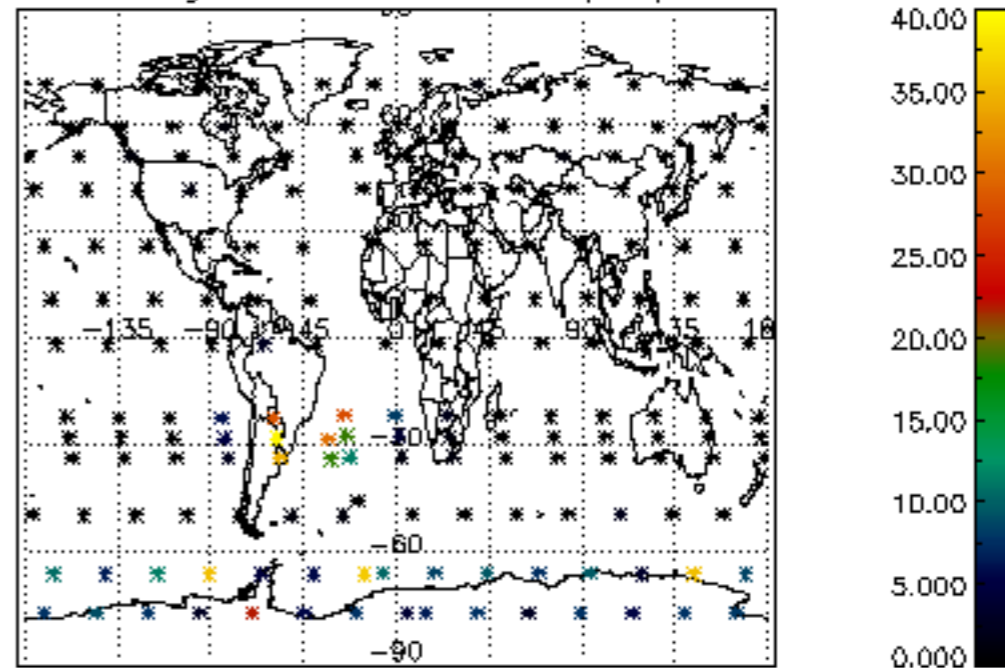
Percentage of datation errors per profile



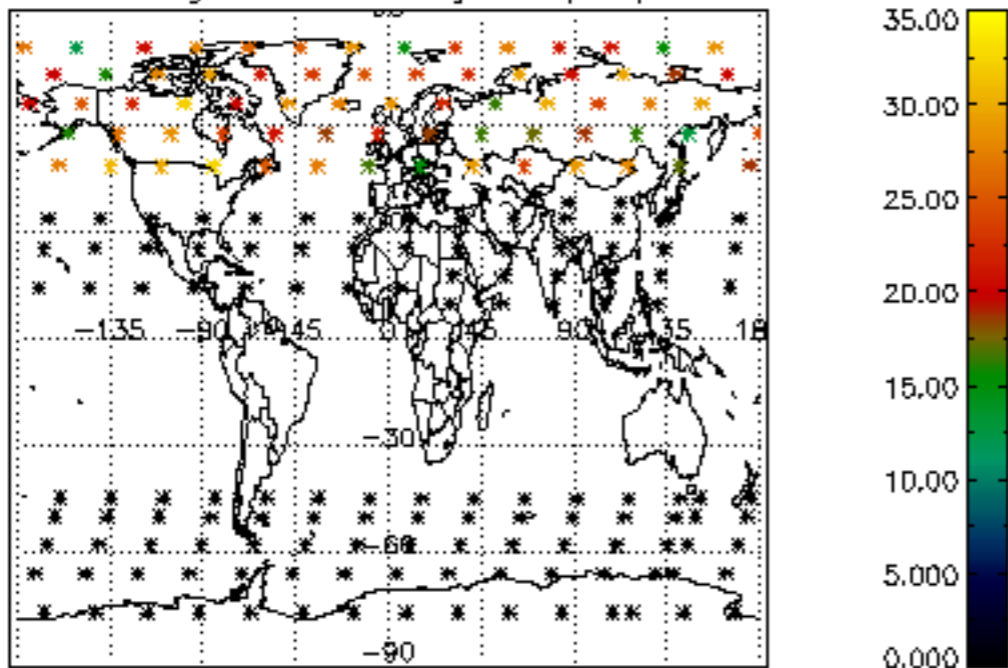
Percentage of star falling outside central band per profile



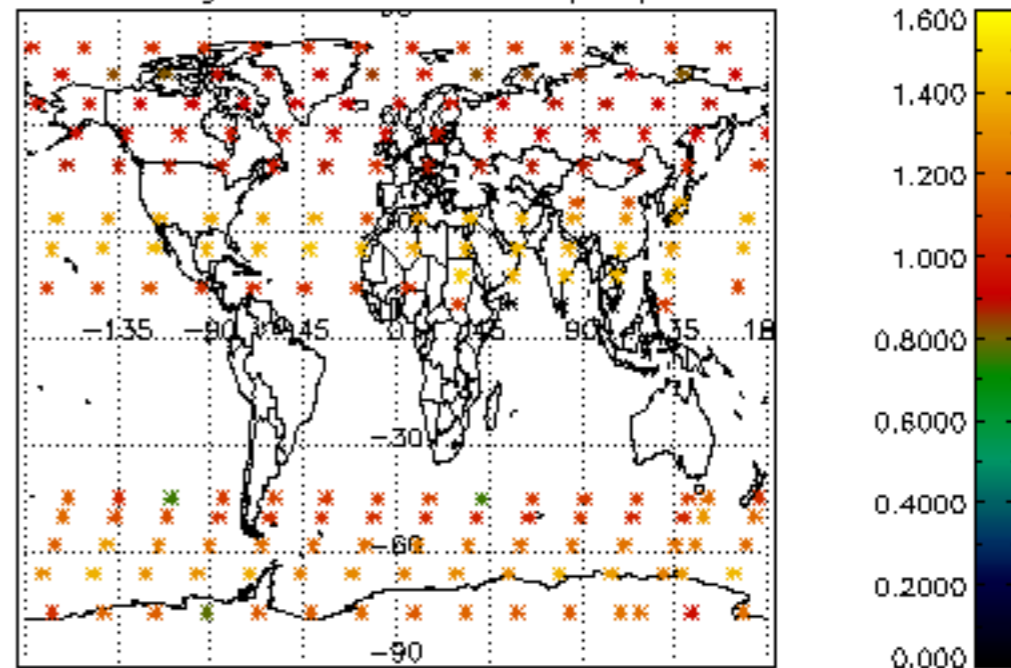
Percentage of saturation errors per profile



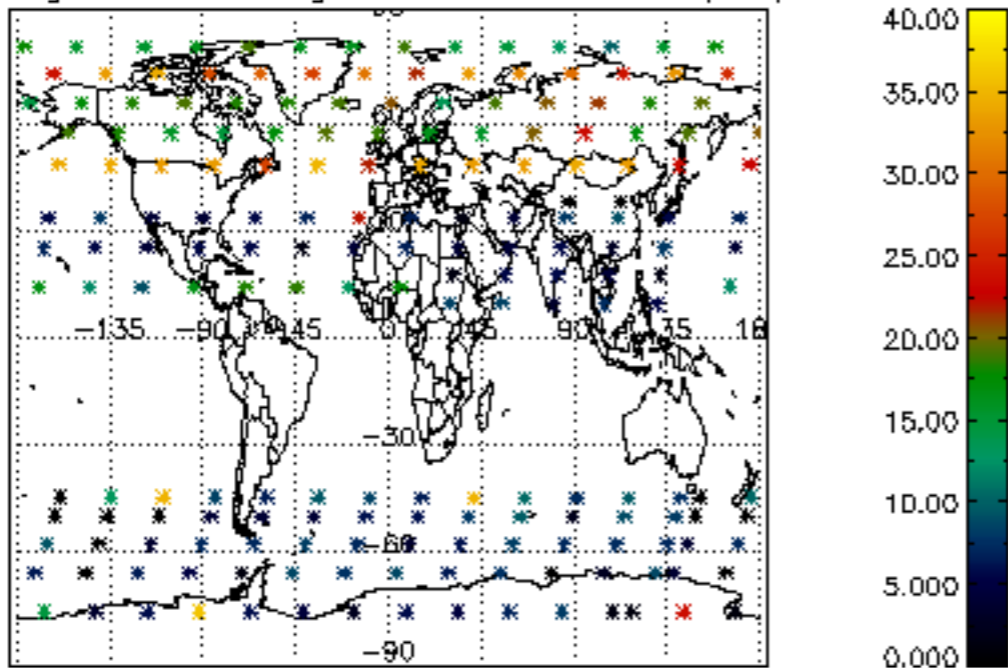
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

