

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](#)

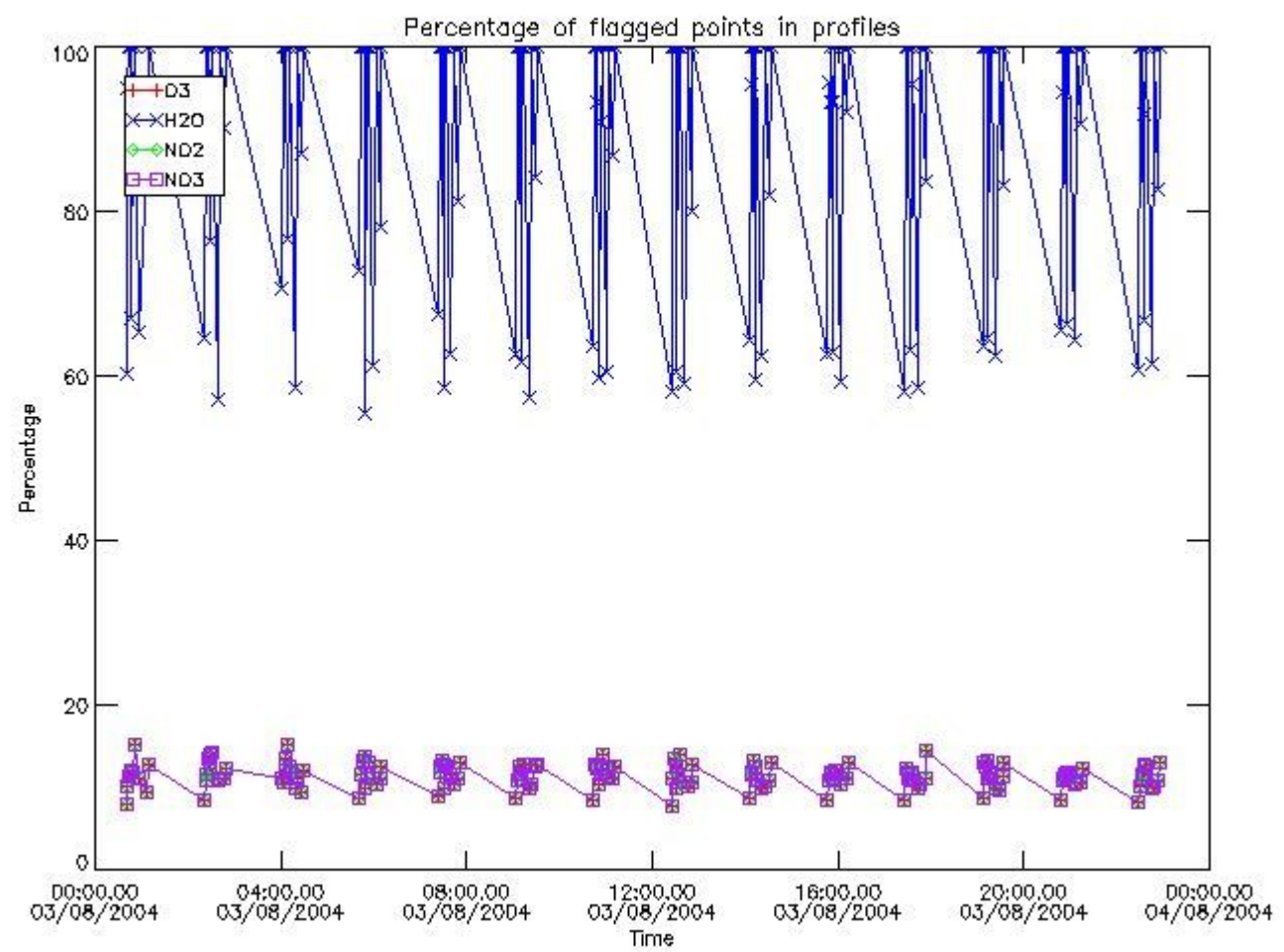
[6. Auxiliary Data Files used for the production reported in section 2](#)

397	GOM_NL__2PRFIN20040803_214345_000000382029_00115_12694_2146.N1	03-AUG-2004 21:43:45	Bright	37.500	168	17Zet Aql	2.9860	11000.	75	12694	No
398	GOM_NL__2PRFIN20040803_215051_000000352029_00115_12694_2147.N1	03-AUG-2004 21:50:51	Bright	35.000	5	3Alp Lyr	0.033000	11000.	70	12694	No
399	GOM_NL__2PRFIN20040803_215244_000000362029_00115_12694_2148.N1	03-AUG-2004 21:52:44	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	12694	No
400	GOM_NL__2PRFIN20040803_215443_000000412029_00115_12694_2149.N1	03-AUG-2004 21:54:43	Bright	40.500	69	33Gam Dra	2.2310	3800.0	81	12694	No
401	GOM_NL__2PRFIN20040803_215849_000000402029_00115_12694_2150.N1	03-AUG-2004 21:58:49	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	12694	No
402	GOM_NL__2PRFIN20040803_220256_000000342029_00115_12694_2151.N1	03-AUG-2004 22:02:56	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	12694	No
403	GOM_NL__2PRFIN20040803_220518_000000382029_00115_12694_2152.N1	03-AUG-2004 22:05:18	Bright	37.500	49	1Alp UMi	1.9900	6300.0	75	12694	No
404	GOM_NL__2PRFIN20040803_220723_000000512029_00115_12694_2153.N1	03-AUG-2004 22:07:23	Bright	51.000	76	27Gam Cas	2.3000	30000.	102	12694	No
405	GOM_NL__2PRFIN20040803_221400_000000532029_00115_12694_2154.N1	03-AUG-2004 22:14:00	Bright	52.500	160	23Gam Per	2.9300	4700.0	105	12694	No
406	GOM_NL__2PRFIN20040803_221543_000000532029_00115_12694_2155.N1	03-AUG-2004 22:15:43	Bright	52.500	35	33Alp Per	1.7950	6250.0	105	12694	No
407	GOM_NL__2PRFIN20040803_221904_000000642029_00115_12694_2156.N1	03-AUG-2004 22:19:04	Bright	64.000	79	26Bet Per	2.3100	13100.	128	12694	No
408	GOM_NL__2PRFIN20040803_222319_000000502029_00115_12694_2157.N1	03-AUG-2004 22:23:19	Bright	49.500	28	12Bet Tau	1.6500	15200.	99	12694	No
409	GOM_NL__2PRFIN20040803_222527_000000452029_00115_12694_2158.N1	03-AUG-2004 22:25:27	Twi_and_stray	44.500	176	23Zet Tau	3.0200	22000.	89	12694	No
410	GOM_NL__2PRFIN20040803_222806_000000622029_00115_12694_2159.N1	03-AUG-2004 22:28:06	Dark	61.500	13	87Alp Tau	0.86700	3800.0	123	12694	No
411	GOM_NL__2PRFIN20040803_223003_000000502029_00115_12694_2160.N1	03-AUG-2004 22:30:03	Dark	50.000	27	24Gam Ori	1.6360	26000.	100	12694	No
412	GOM_NL__2PRFIN20040803_223157_000000462029_00115_12694_2161.N1	03-AUG-2004 22:31:57	Dark	45.500	30	46Eps Ori	1.6940	30000.	91	12694	No
413	GOM_NL__2PRFIN20040803_223318_000000442029_00115_12694_2162.N1	03-AUG-2004 22:33:18	Dark	44.000	125	44Iot Ori	2.7700	30000.	88	12694	No
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415	GOM_NL__2PRFIN20040803_223639_000000442029_00115_12694_2164.N1	03-AUG-2004 22:36:39	Dark	43.500	101	11Alp Lep	2.5820	7000.0	87	12694	No
416	GOM_NL__2PRFIN20040803_223824_000000412029_00115_12694_2165.N1	03-AUG-2004 22:38:24	Dark	40.500	23	21Eps CMa	1.5020	26000.	81	12694	No
417	GOM_NL__2PRFIN20040803_224510_000000512029_00115_12694_2166.N1	03-AUG-2004 22:45:10	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	12694	No
418	GOM_NL__2PRFIN20040803_224854_000000502029_00116_12695_2137.N1	03-AUG-2004 22:48:54	Dark	50.000	157	The1Eri	2.9060	9300.0	100	12695	No
419	GOM_NL__2PRFIN20040803_225411_000000472029_00116_12695_2138.N1	03-AUG-2004 22:54:11	Dark	46.500	9	Alp Eri	0.45300	24000.	93	12695	No
420	GOM_NL__2PRFIN20040803_225548_000000432029_00116_12695_2139.N1	03-AUG-2004 22:55:48	Dark	43.000	135	Bet Hyi	2.8200	5800.0	86	12695	No
421	GOM_NL__2PRFIN20040803_225911_000000682029_00116_12695_2140.N1	03-AUG-2004 22:59:11	Straylight	67.500	84	Alp Phe	2.3970	4500.0	135	12695	No
422	GOM_NL__2PRFIN20040803_230355_000000422029_00116_12695_2141.N1	03-AUG-2004 23:03:55	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	12695	No
423	GOM_NL__2PRFIN20040803_230755_000000682029_00116_12695_2142.N1	03-AUG-2004 23:07:55	Twi_and_stray	68.000	18	24Alp PsA	1.1660	9700.0	136	12695	No
424	GOM_NL__2PRFIN20040803_231214_000000502029_00116_12695_2143.N1	03-AUG-2004 23:12:14	Bright	50.000	103	38Zet Sgr	2.6000	9700.0	100	12695	No
425	GOM_NL__2PRFIN20040803_231447_000000522029_00116_12695_2144.N1	03-AUG-2004 23:14:47	Bright	51.500	142	49Del Cap	2.8500	8900.0	103	12695	No
426	GOM_NL__2PRFIN20040803_231845_000000542029_00116_12695_2145.N1	03-AUG-2004 23:18:45	Bright	53.500	154	22Bet Aqr	2.8990	5700.0	107	12695	No
427	GOM_NL__2PRFIN20040803_232250_000000392029_00116_12695_2146.N1	03-AUG-2004 23:22:50	Bright	39.000	11	53Alp Aql	0.76500	8000.0	78	12695	No
428	GOM_NL__2PRFIN20040803_232420_000000382029_00116_12695_2147.N1	03-AUG-2004 23:24:20	Bright	38.000	168	17Zet Aql	2.9860	11000.	76	12695	No
429	GOM_NL__2PRFIN20040803_233127_000000362029_00116_12695_2148.N1	03-AUG-2004 23:31:27	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	12695	No
430	GOM_NL__2PRFIN20040803_233319_000000392029_00116_12695_2149.N1	03-AUG-2004 23:33:19	Bright	39.000	144	18Del Cyg	2.8600	11000.	78	12695	No
431	GOM_NL__2PRFIN20040803_233518_000000392029_00116_12695_2150.N1	03-AUG-2004 23:35:18	Bright	39.000	69	33Gam Dra	2.2310	3800.0	78	12695	No
432	GOM_NL__2PRFIN20040803_233923_000000432029_00116_12695_2151.N1	03-AUG-2004 23:39:23	Bright	43.000	119	14Eta Dra	2.7270	4700.0	86	12695	No
433	GOM_NL__2PRFIN20040803_234332_000000352029_00116_12695_2152.N1	03-AUG-2004 23:43:32	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	12695	No
434	GOM_NL__2PRFIN20040803_234554_000000342029_00116_12695_2153.N1	03-AUG-2004 23:45:54	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	12695	No
435	GOM_NL__2PRFIN20040803_234758_000000502029_00116_12695_2154.N1	03-AUG-2004 23:47:58	Bright	49.500	76	27Gam Cas	2.3000	30000.	99	12695	No
436	GOM_NL__2PRFIN20040803_235435_000000482029_00116_12695_2155.N1	03-AUG-2004 23:54:35	Bright	48.000	160	23Gam Per	2.9300	4700.0	96	12695	No
437	GOM_NL__2PRFIN20040803_235619_000000522029_00116_12695_2156.N1	03-AUG-2004 23:56:19	Bright	52.000	35	33Alp Per	1.7950	6250.0	104	12695	No
438	GOM_NL__2PRFIN20040803_235940_000000632029_00116_12695_2157.N1	03-AUG-2004 23:59:40	Bright	62.500	79	26Bet Per	2.3100	13100.	125	12695	No

3. Quality information per product

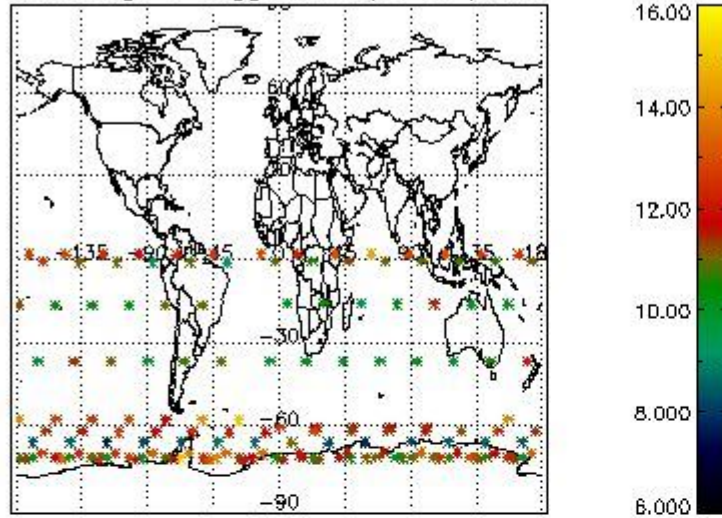
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

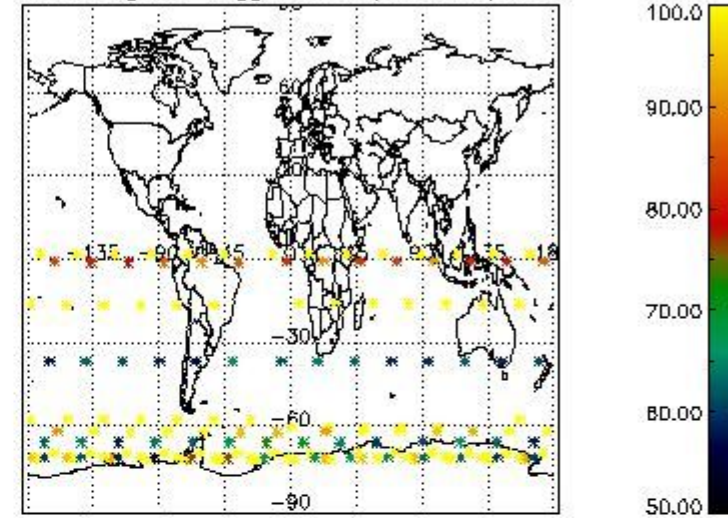


3.2 Plot quality information per product (world map)

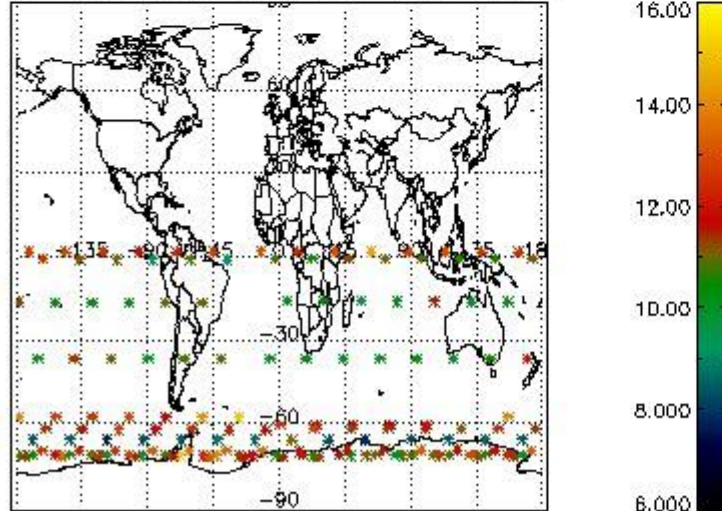
Percentage of flagged data per O3 profile



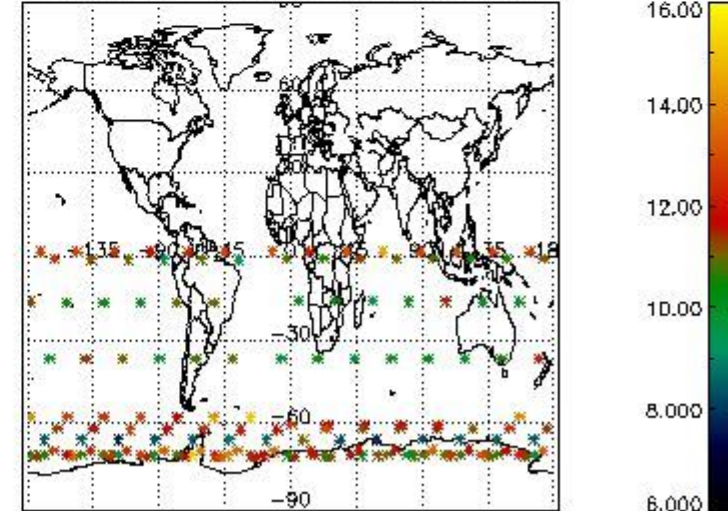
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

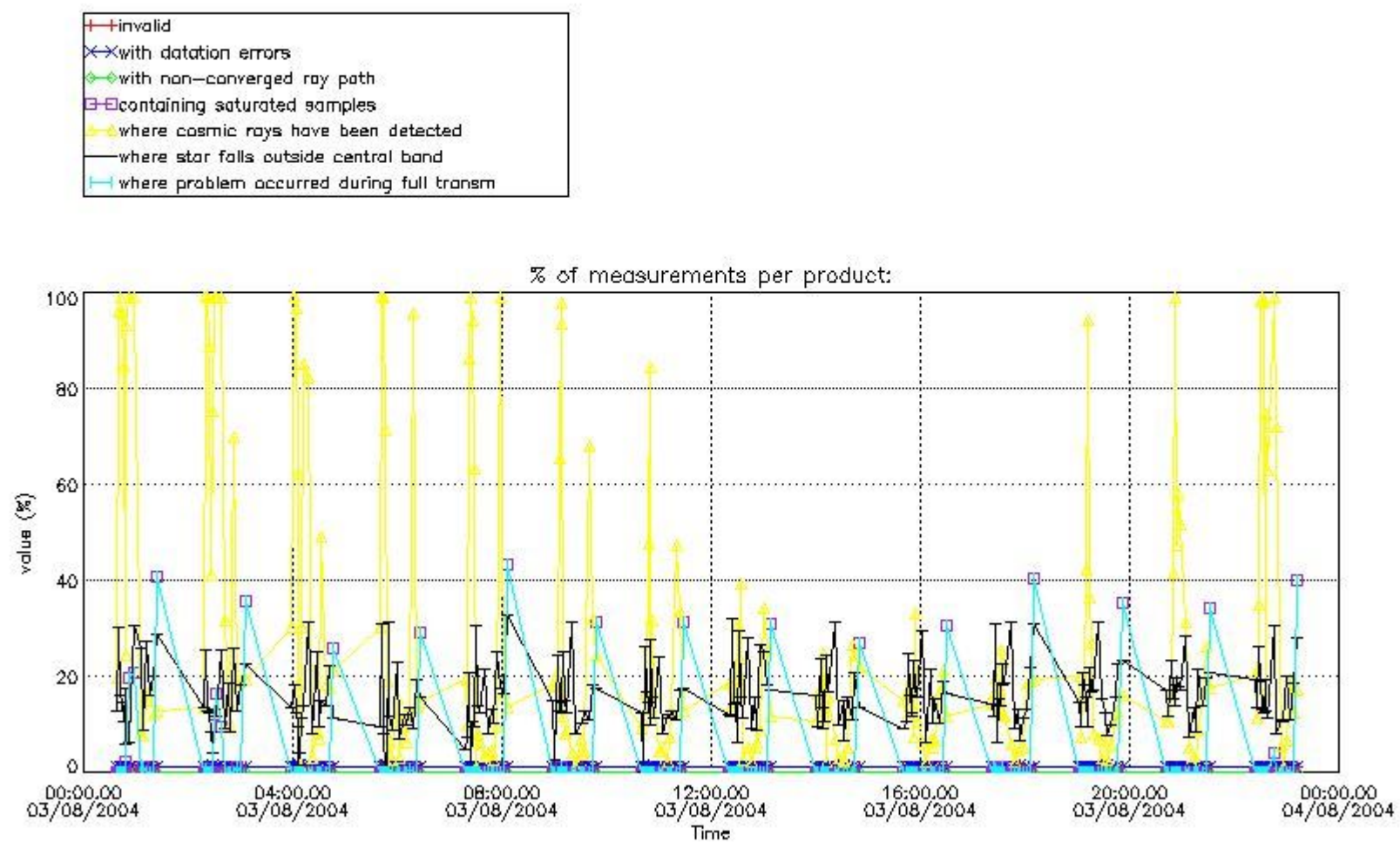


4. Level 1 quality information per product

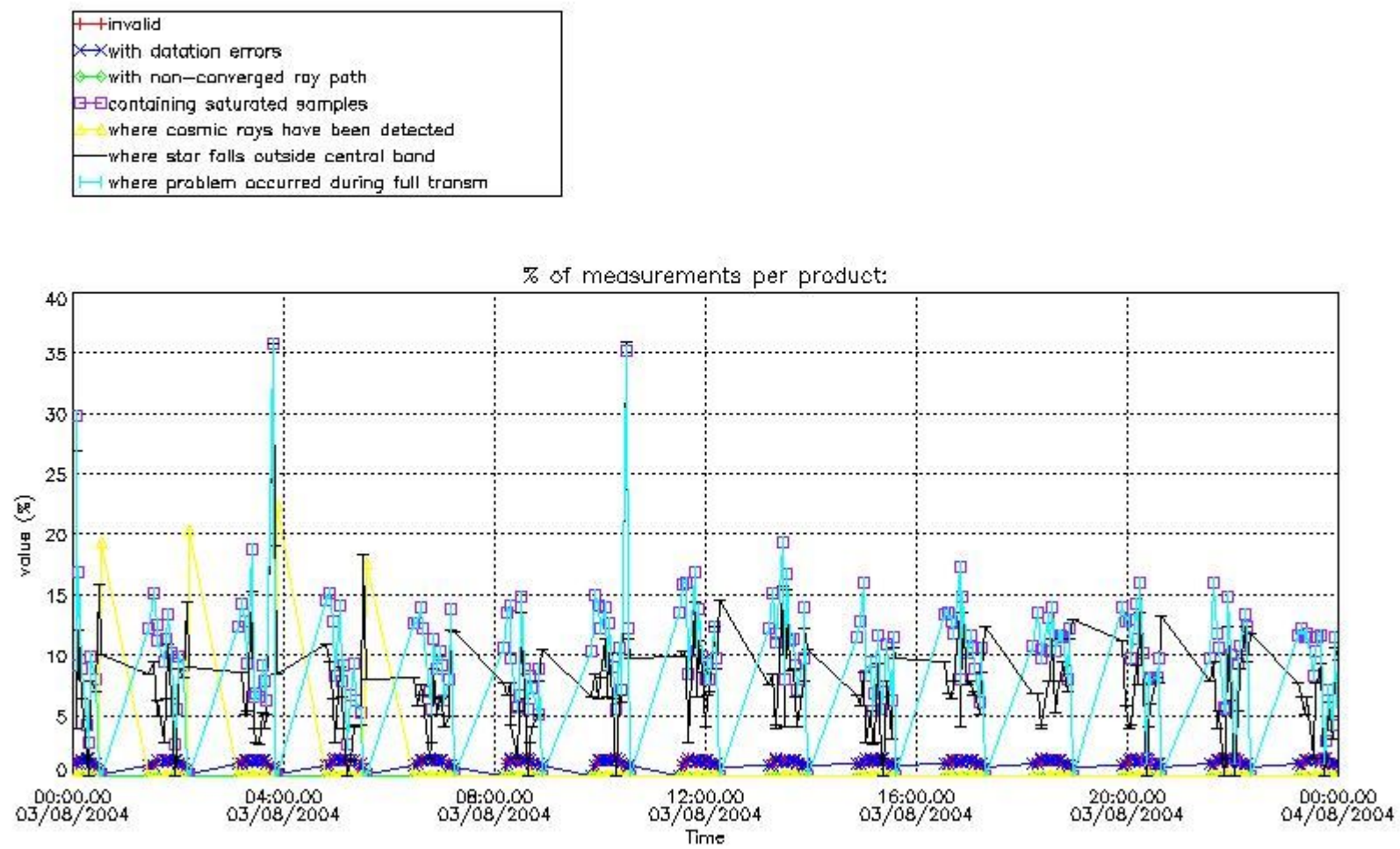
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

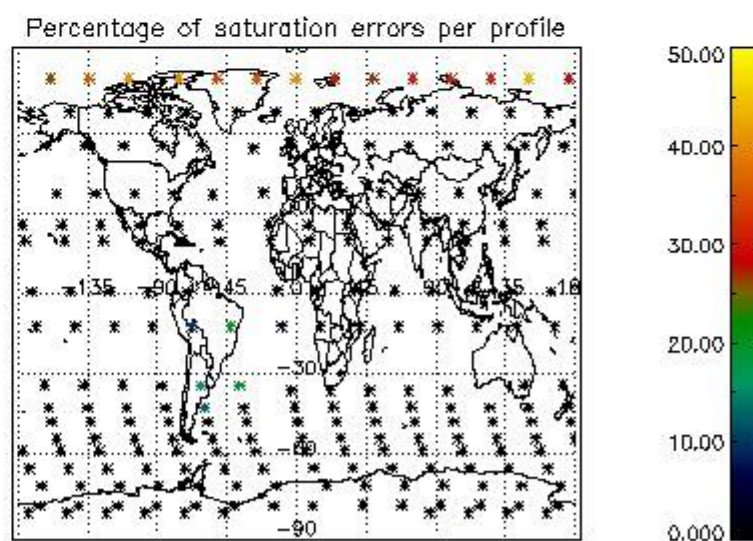
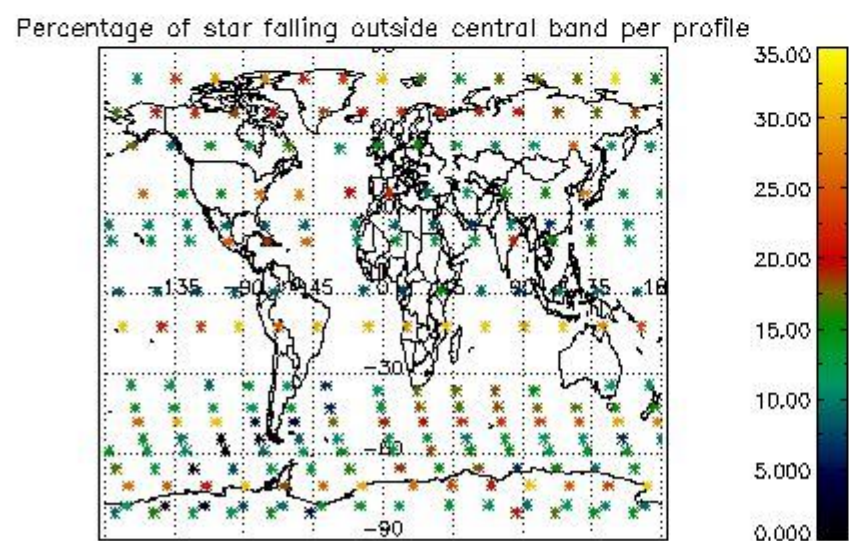
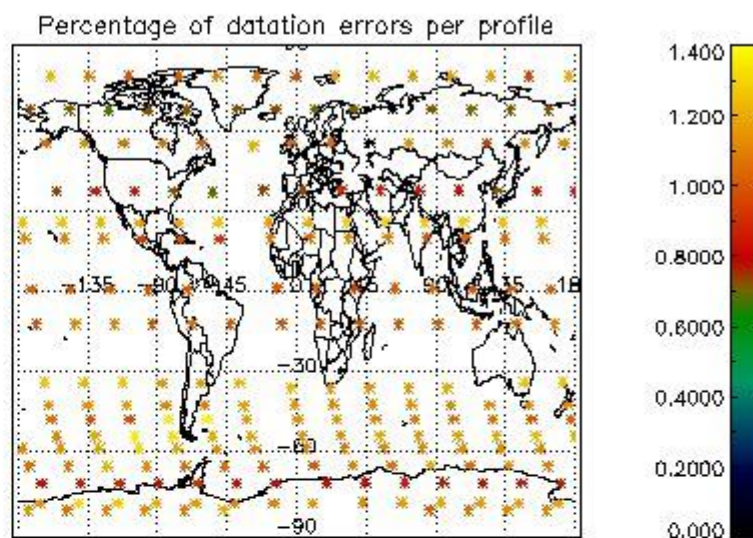
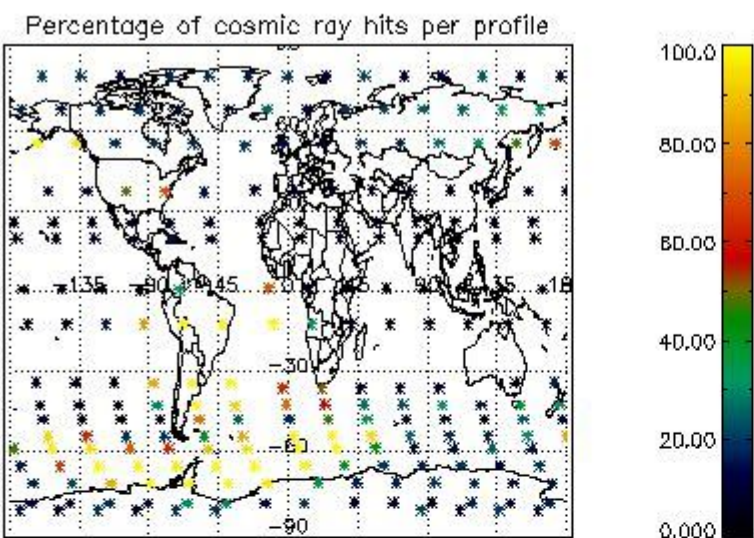


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

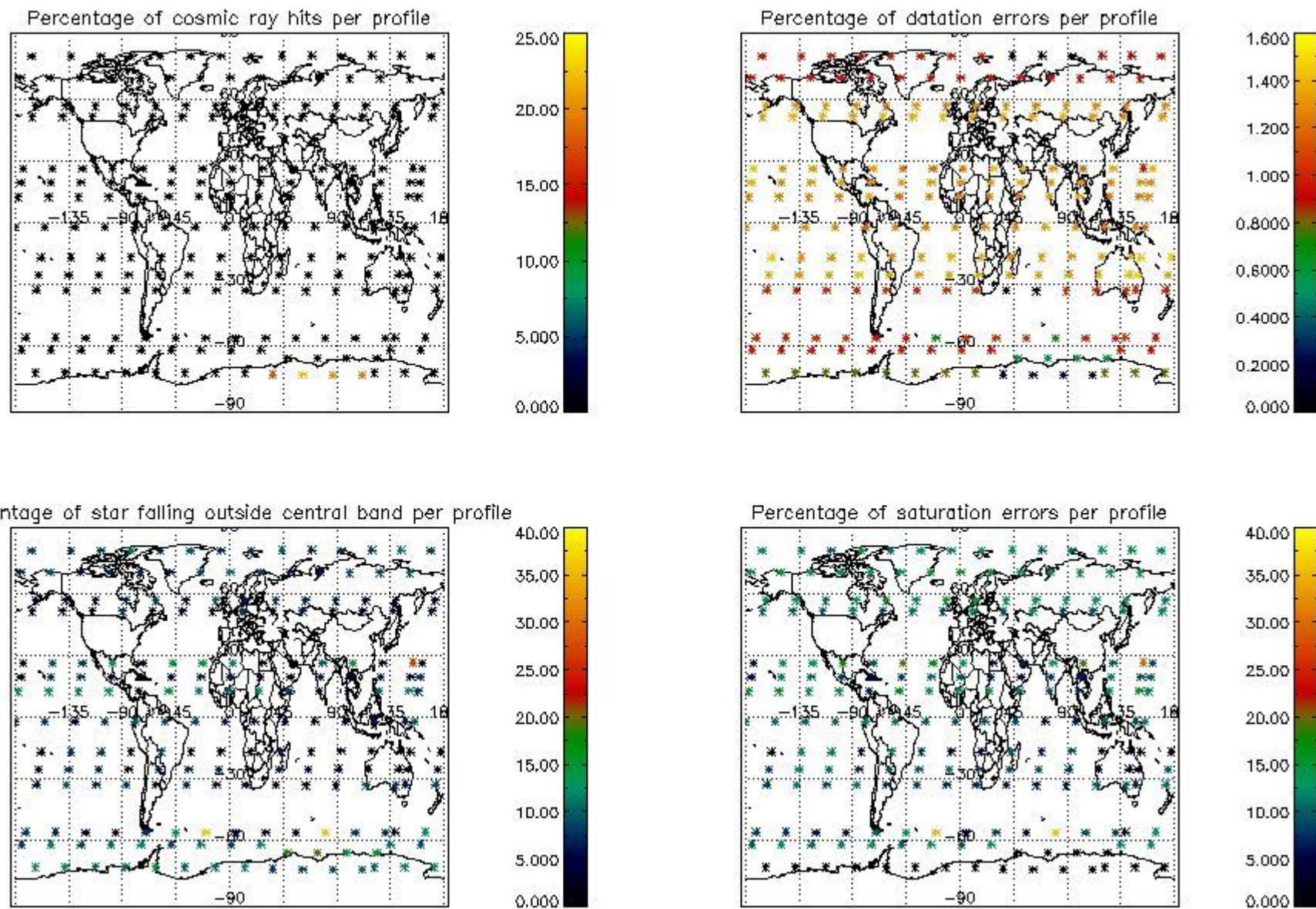


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

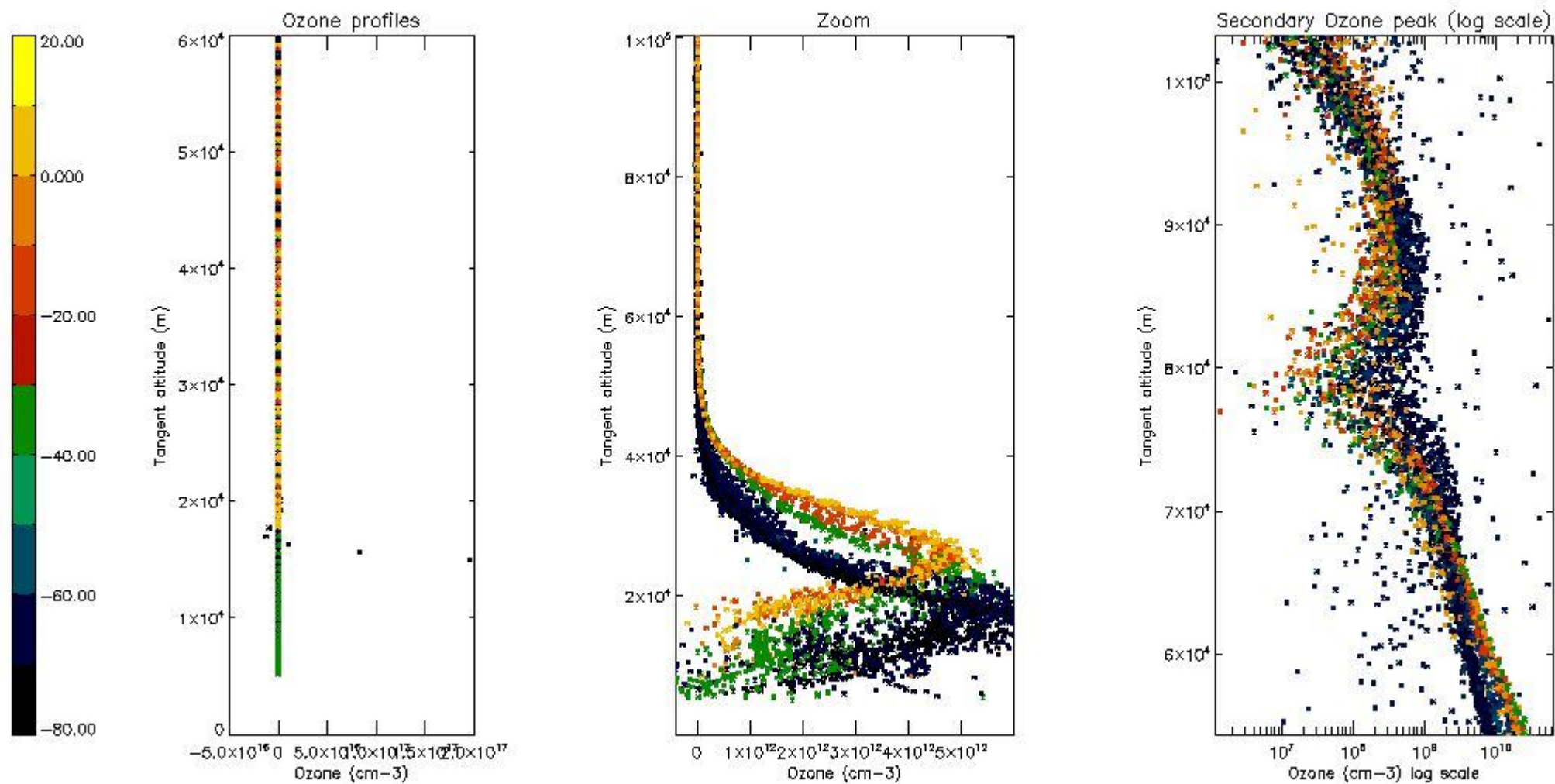
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	21

STD < 10	17
STD < 5	13

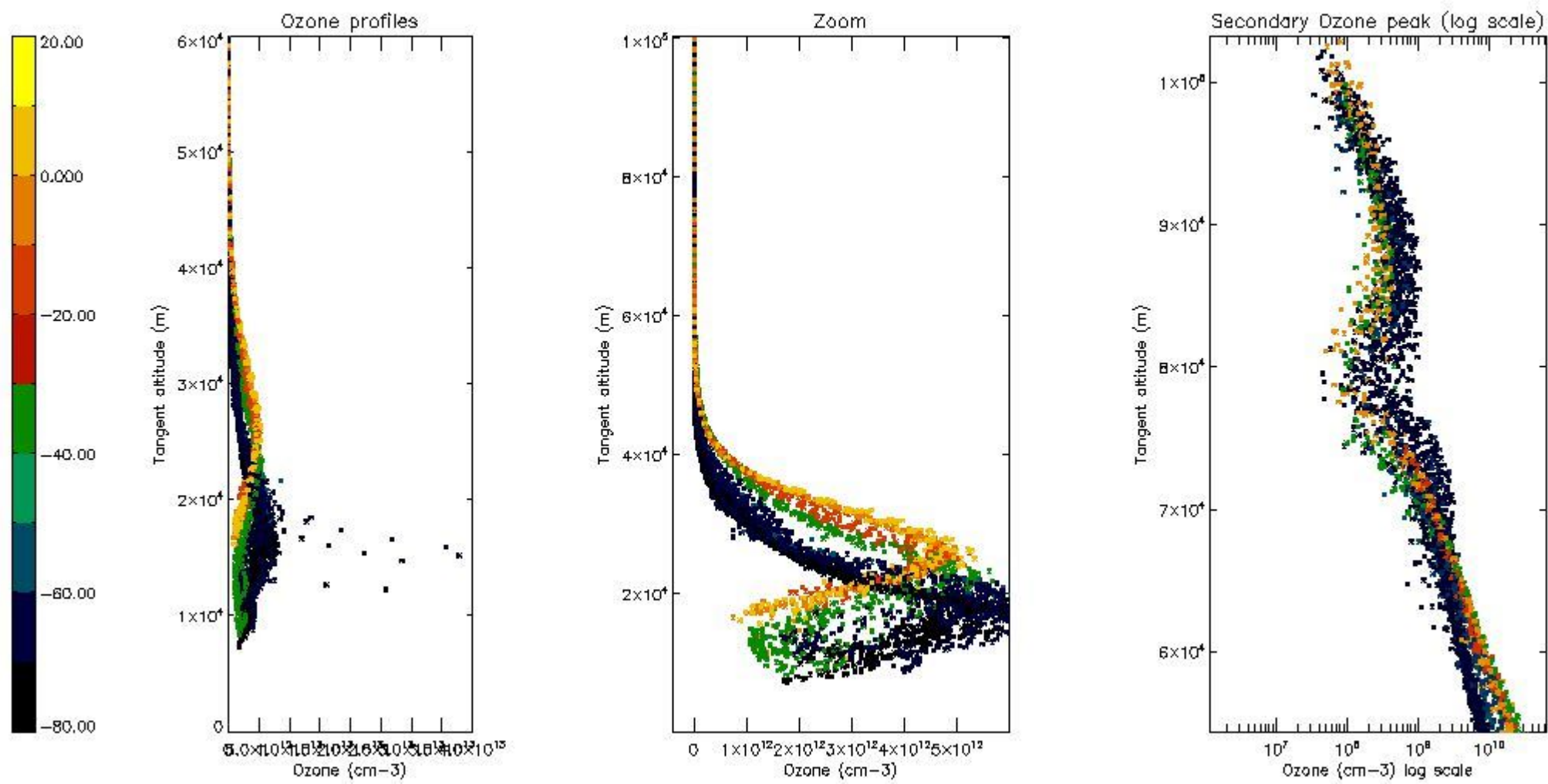
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



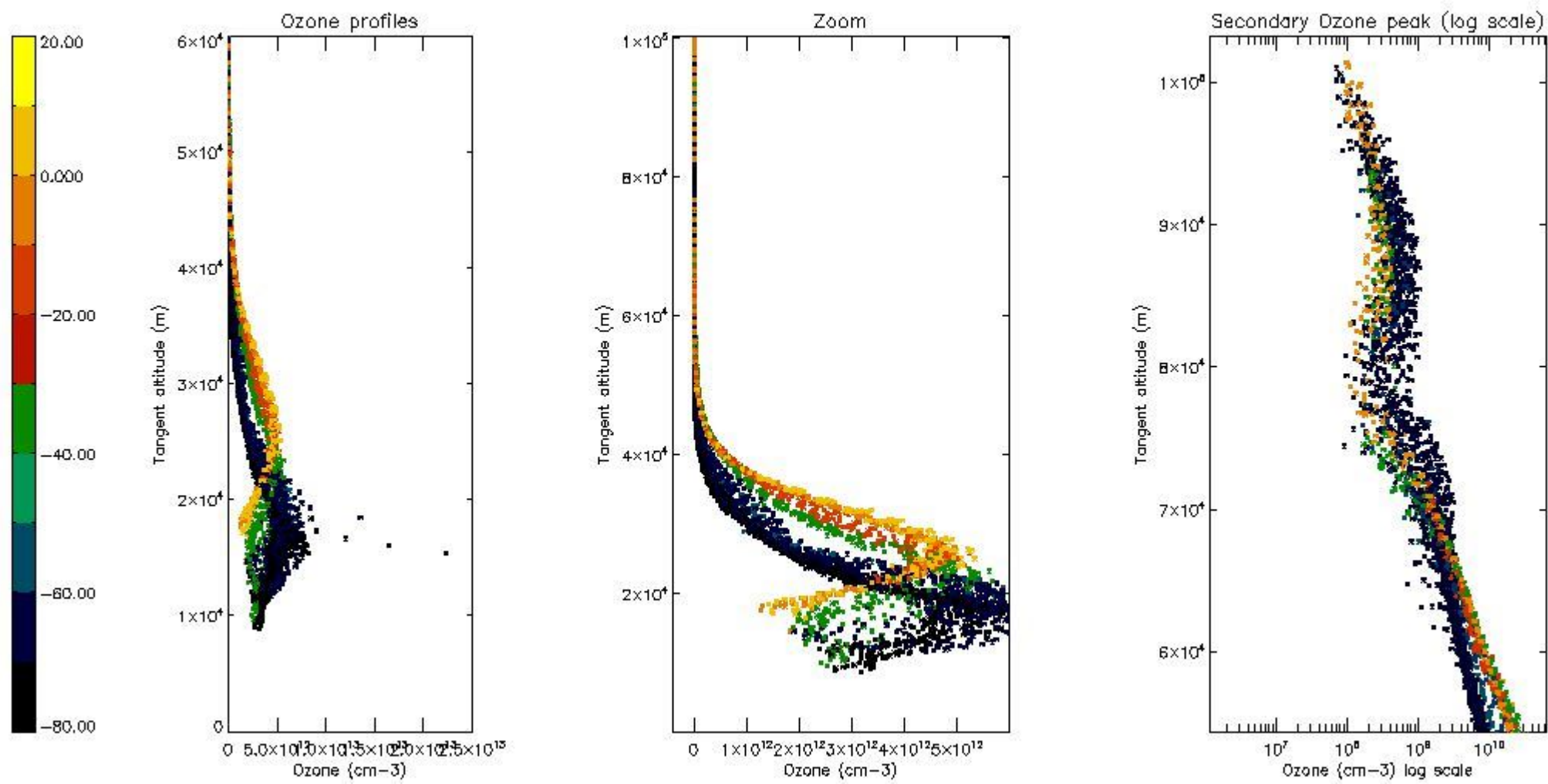
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



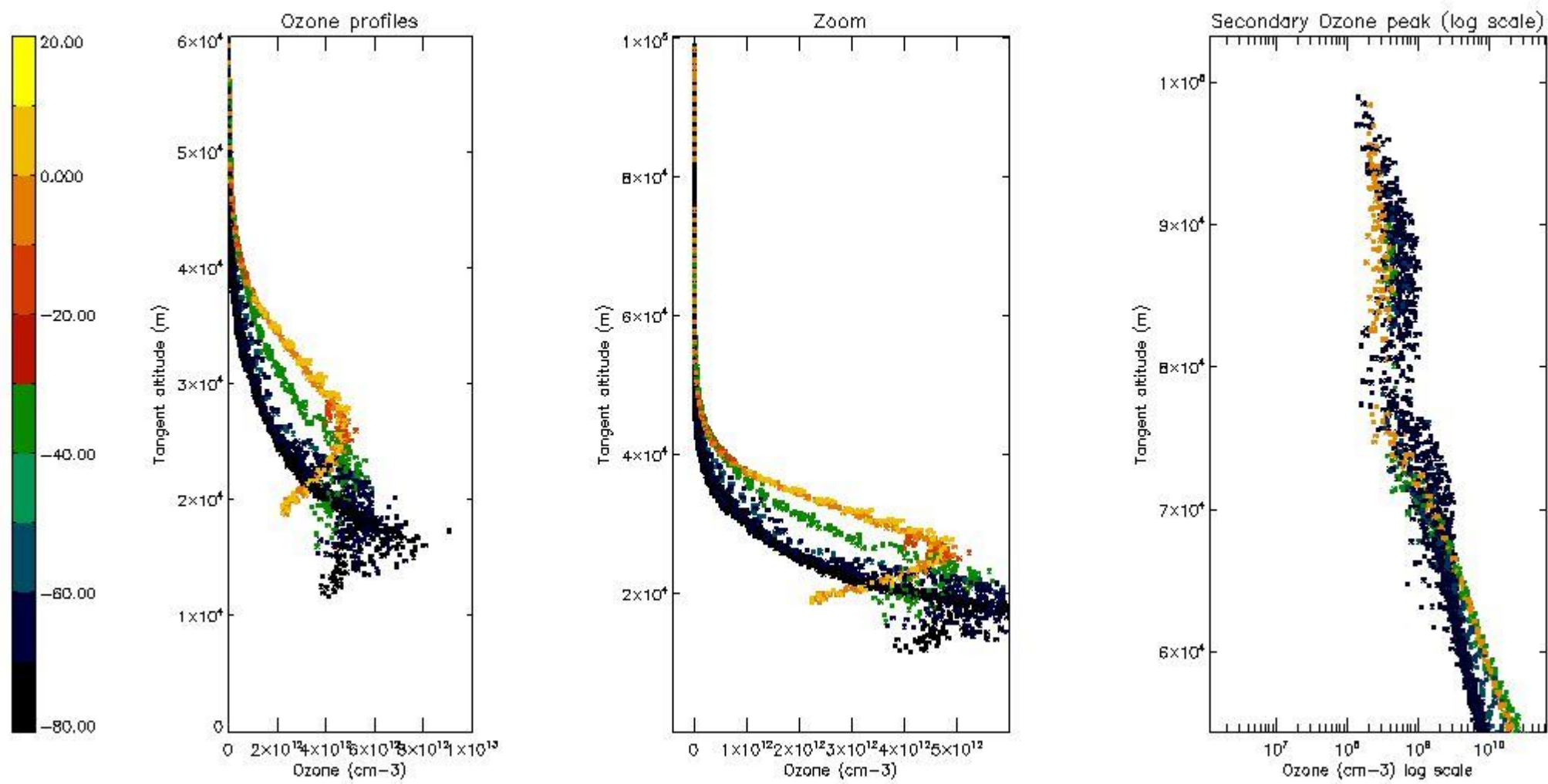
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



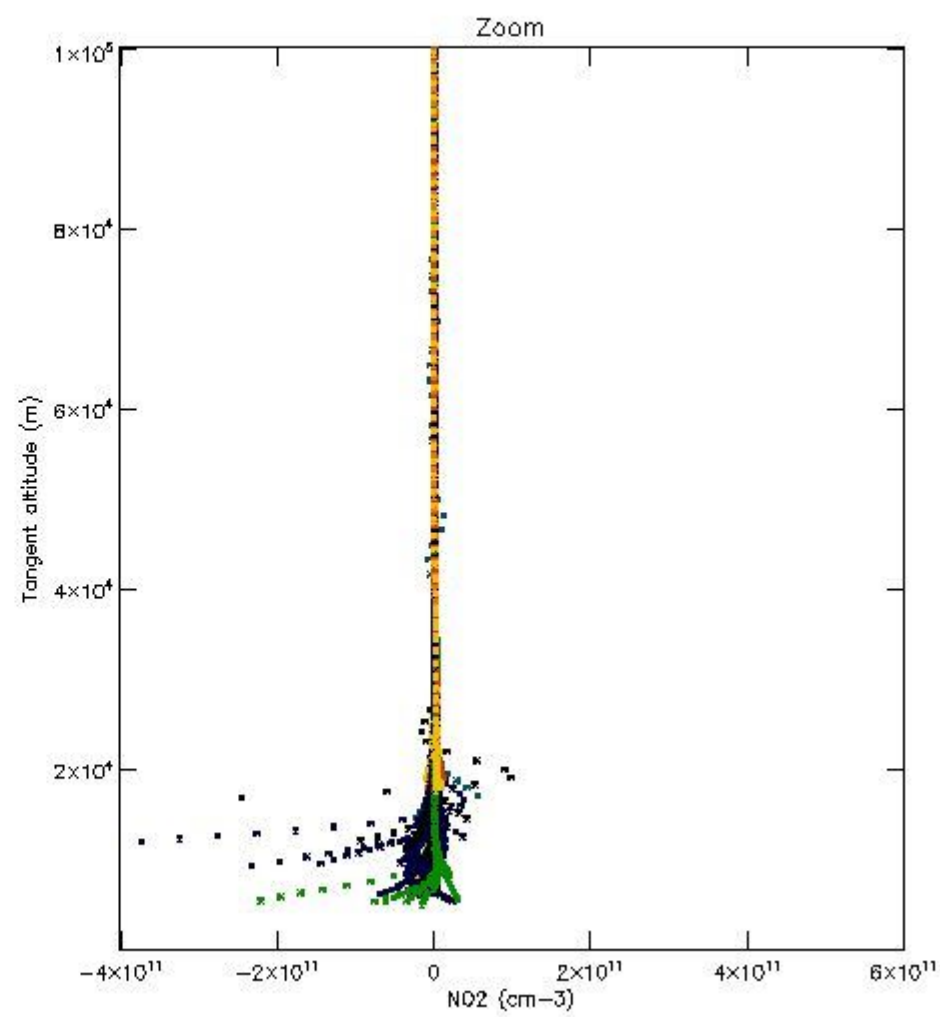
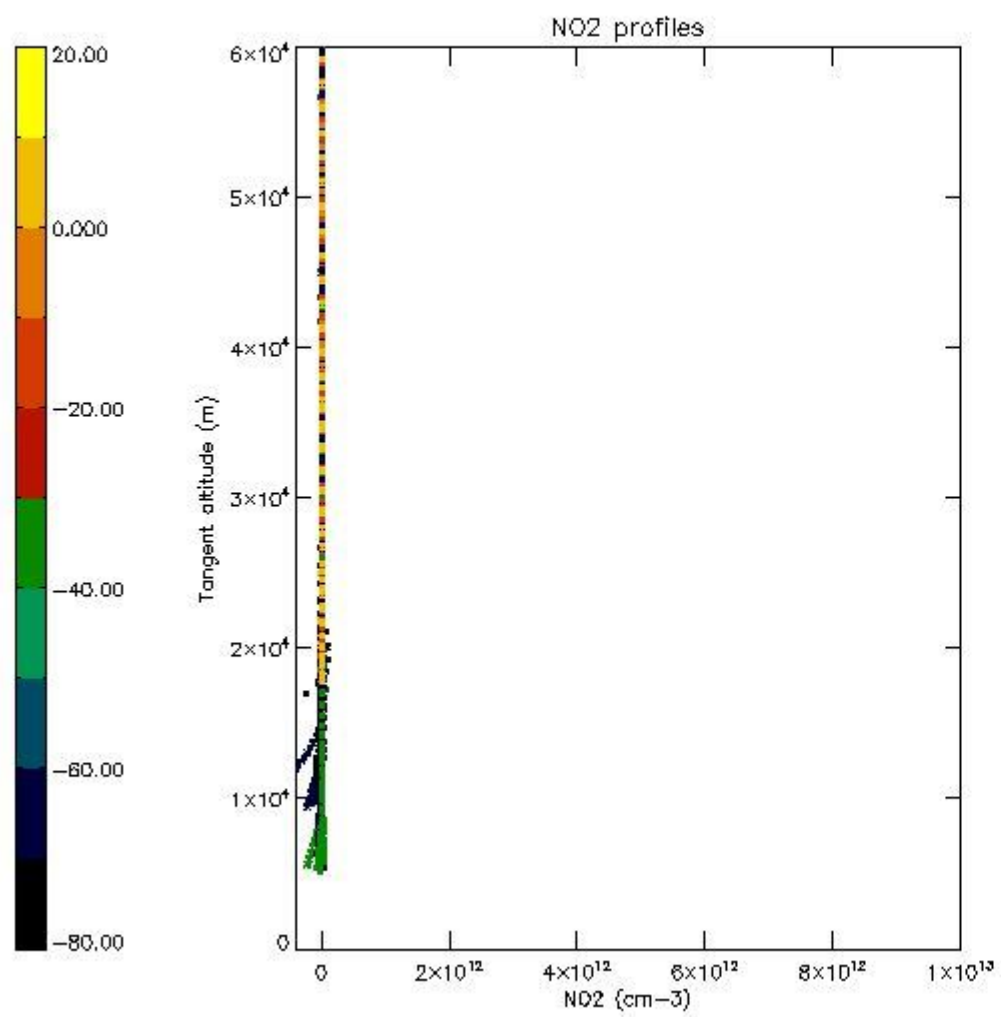
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



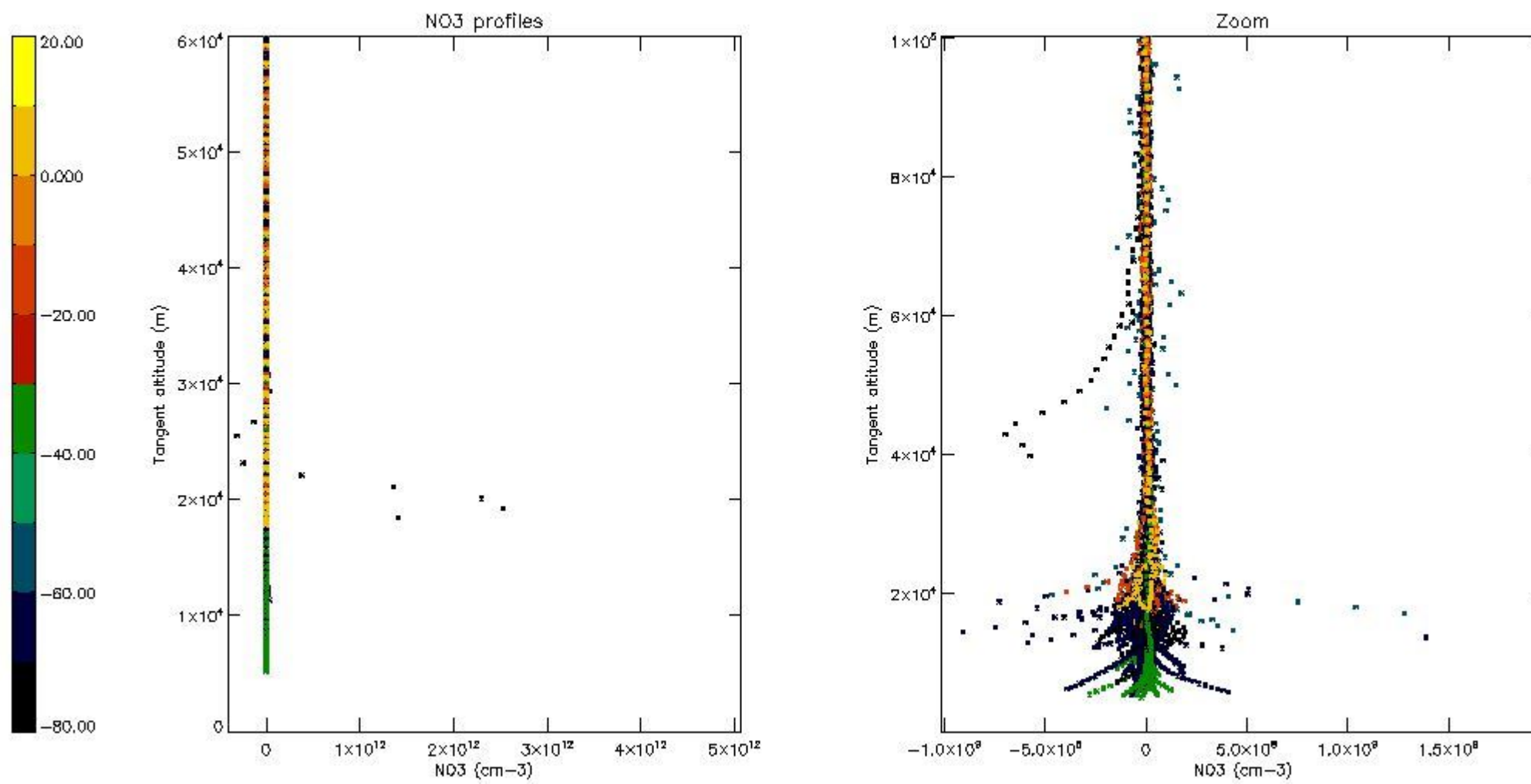
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



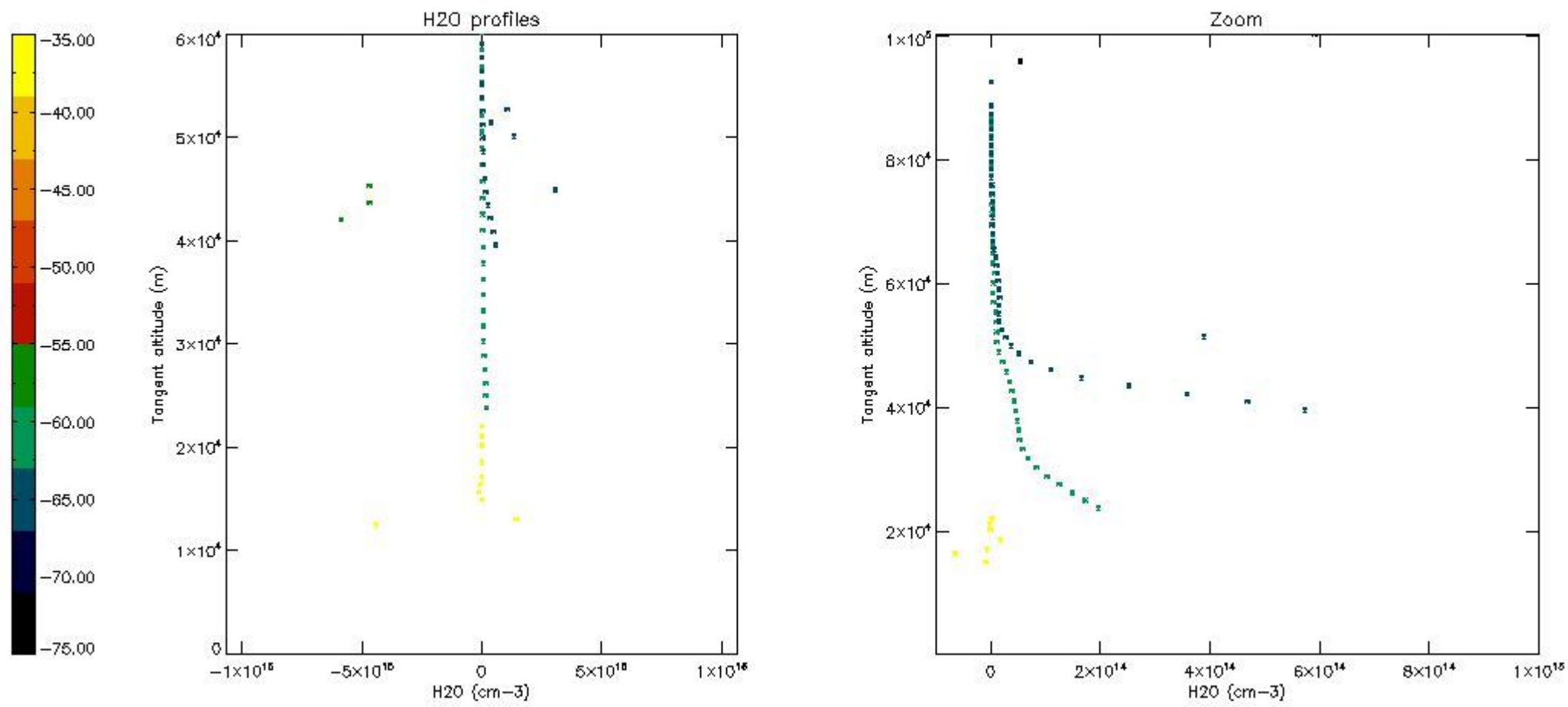
5.7 Plot NO3 profiles for all STD (dark without errors)

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	03-AUG-2004 00:03:00
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	03-AUG-2004 00:03:00
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	03-AUG-2004 00:03:00

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

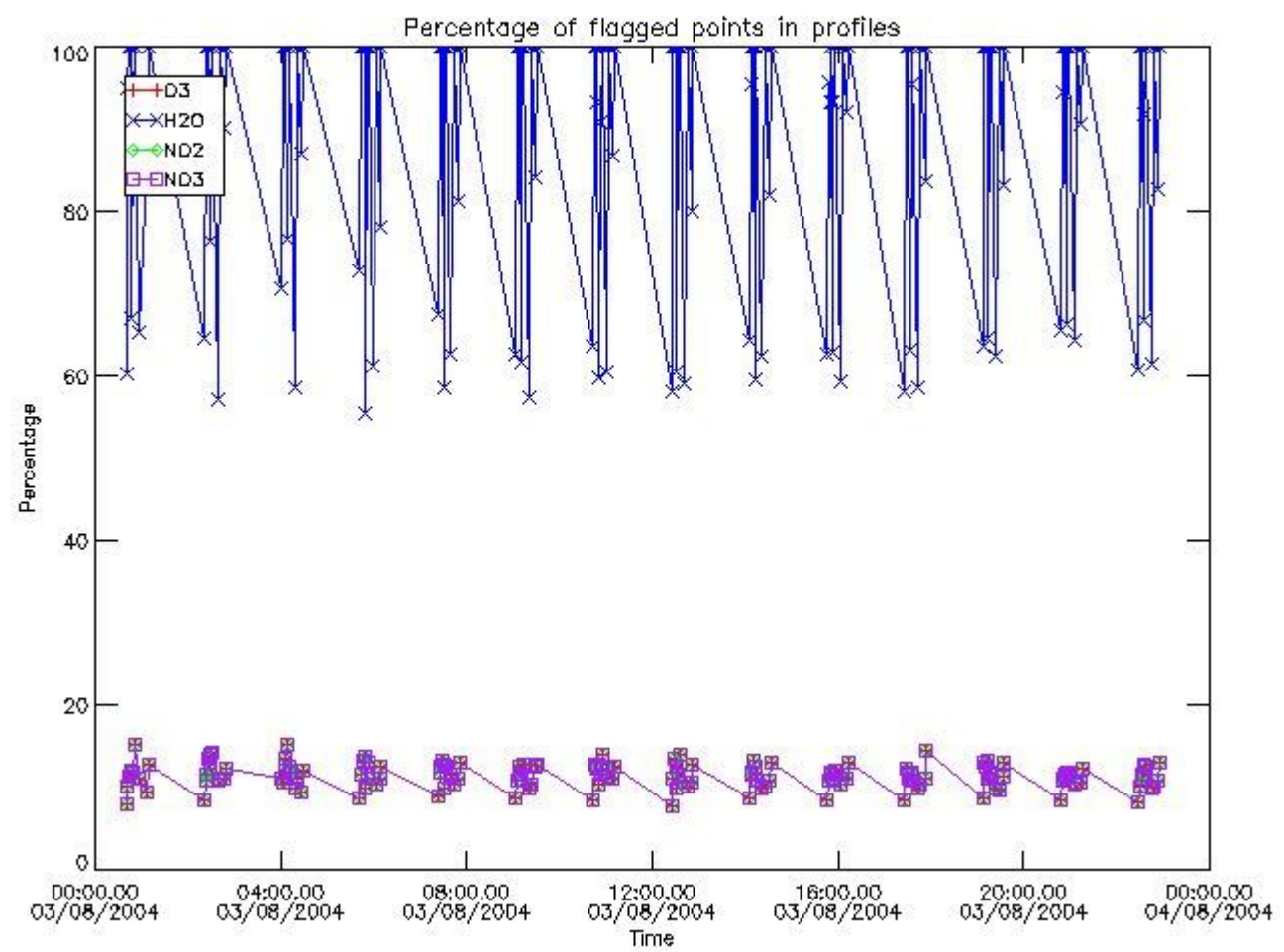
[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

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

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

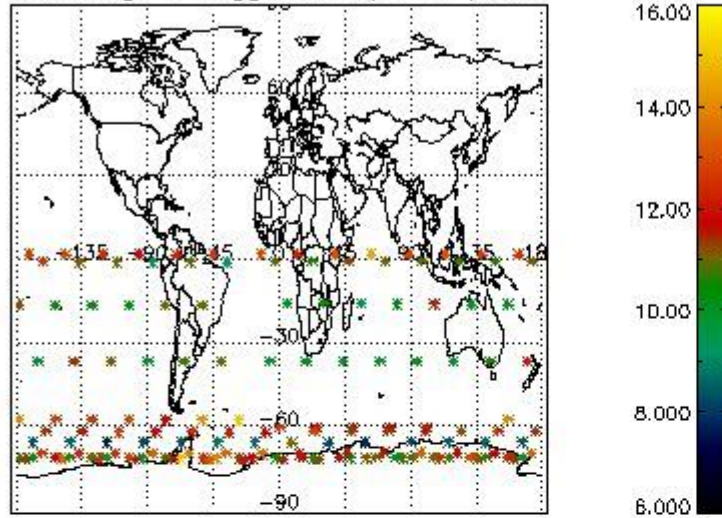
[5.8 Plot H2O profiles \(only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors\) for all STD](#)

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

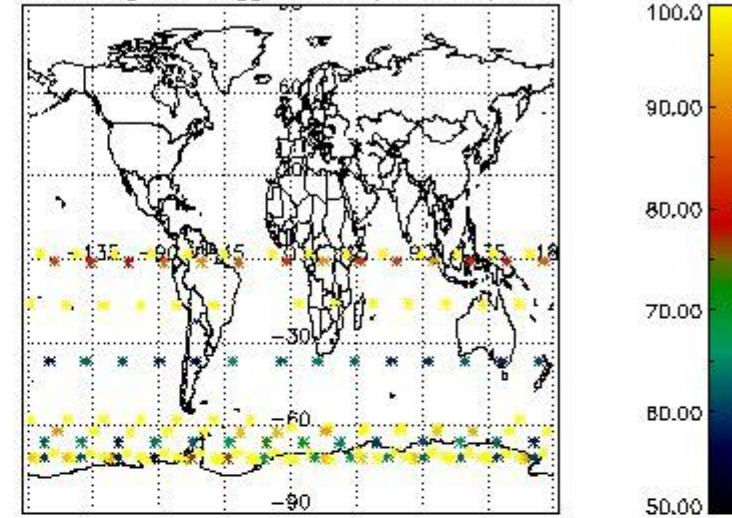


3.2 Plot quality information per product (world map)

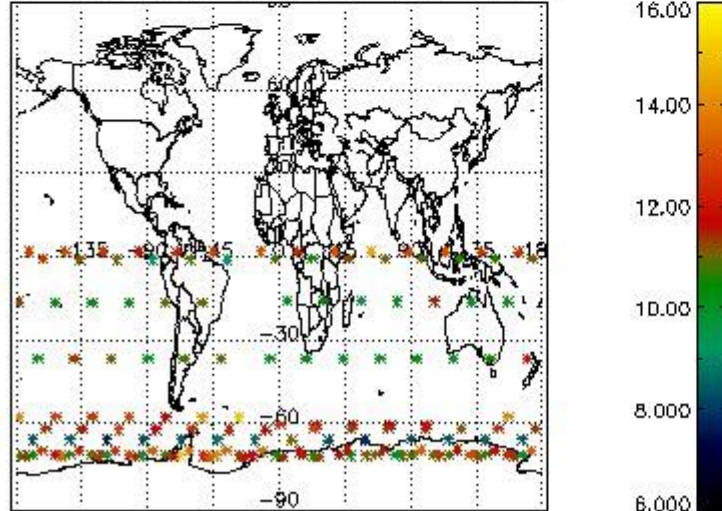
Percentage of flagged data per O3 profile



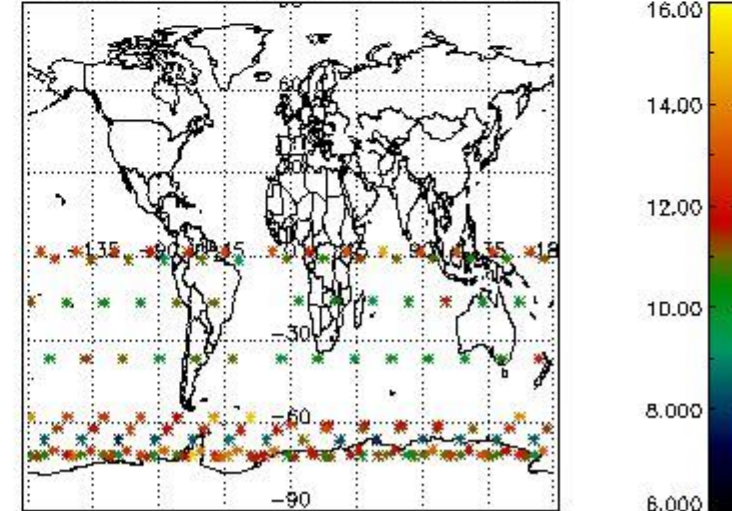
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

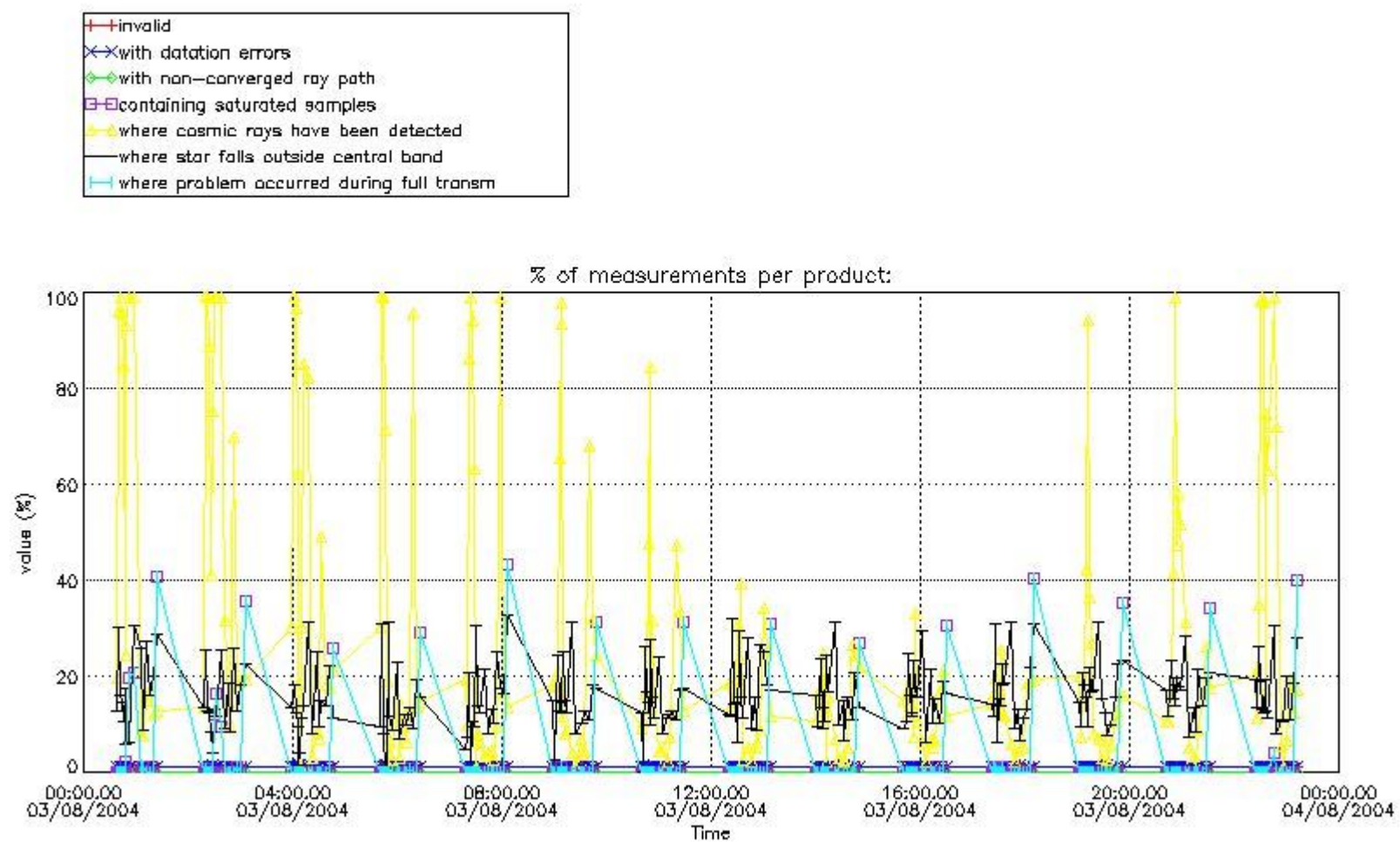


4. Level 1 quality information per product

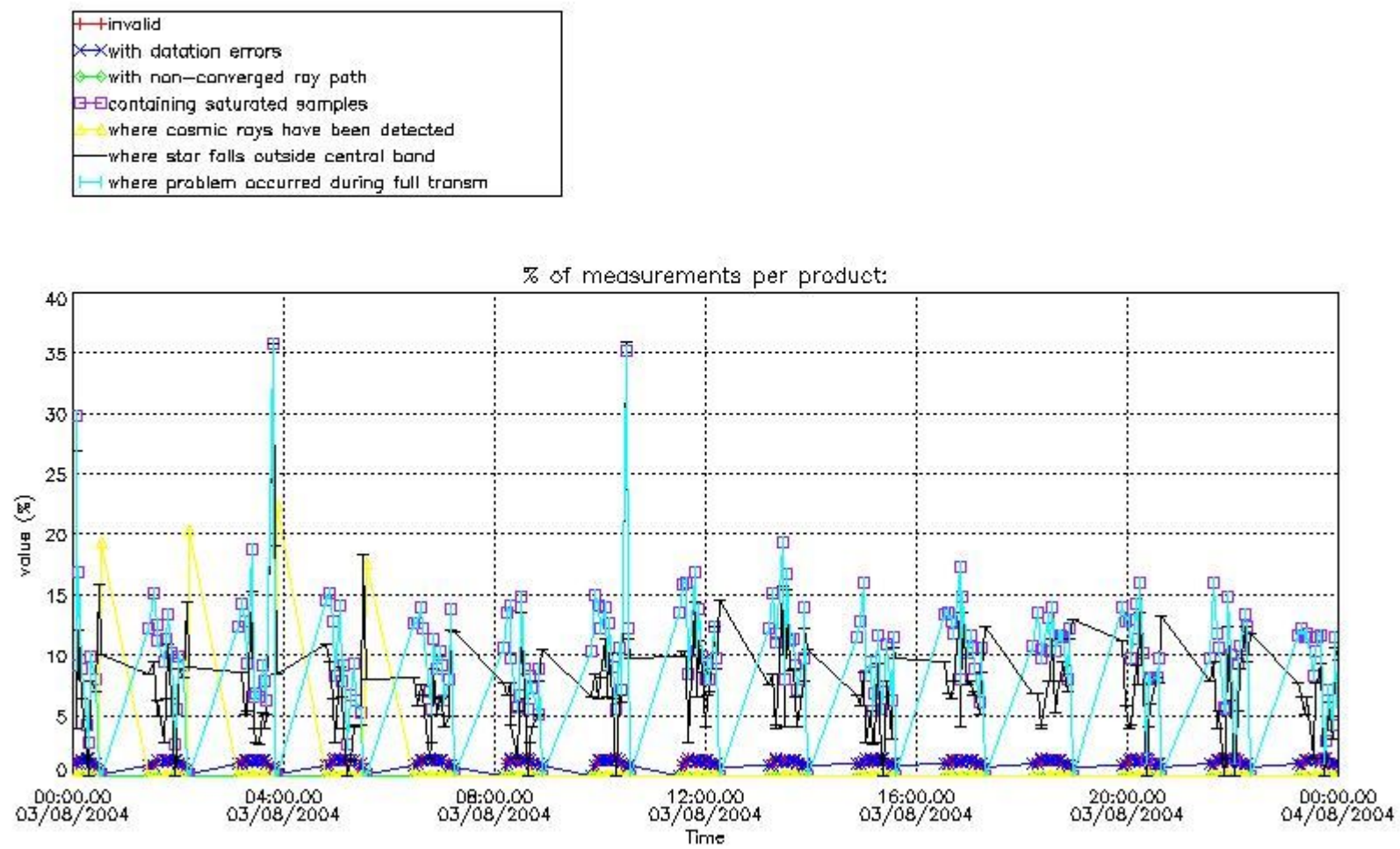
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

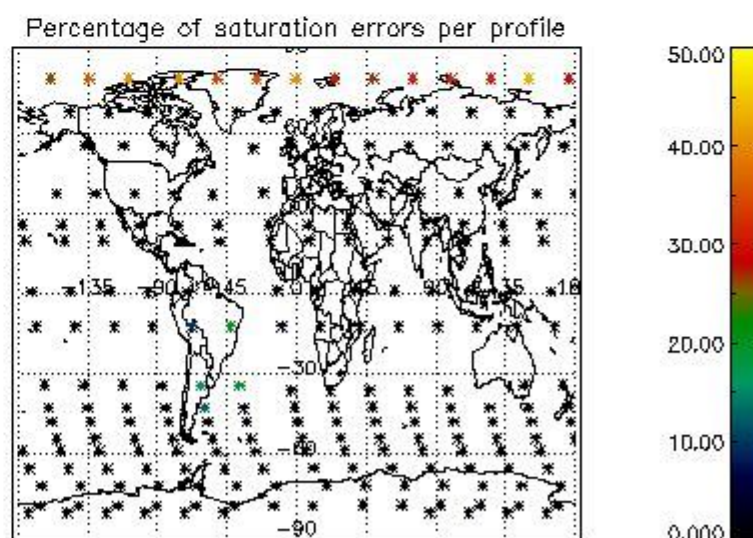
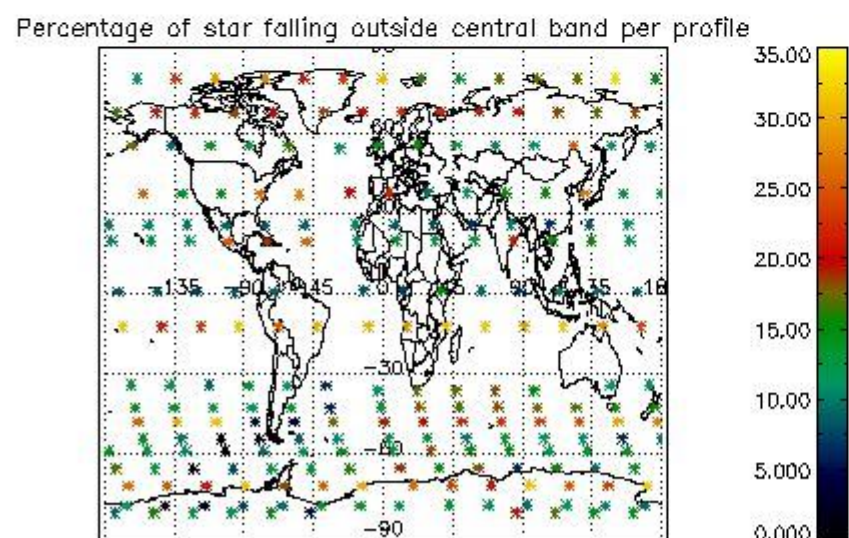
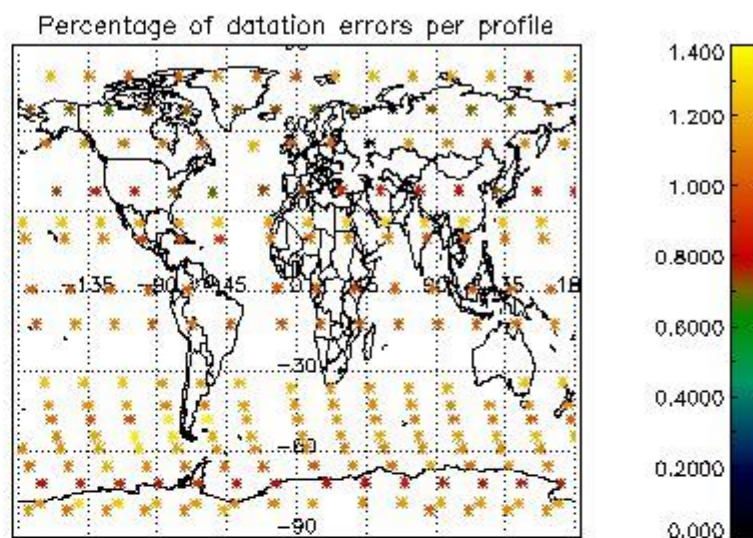
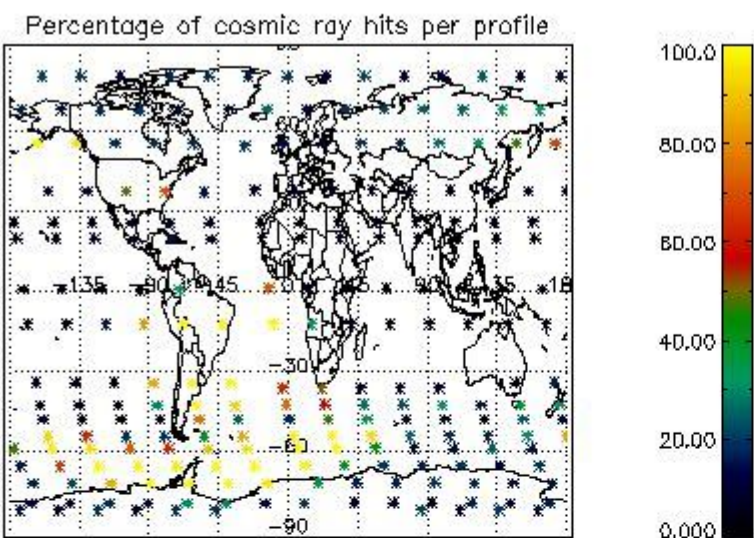


4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

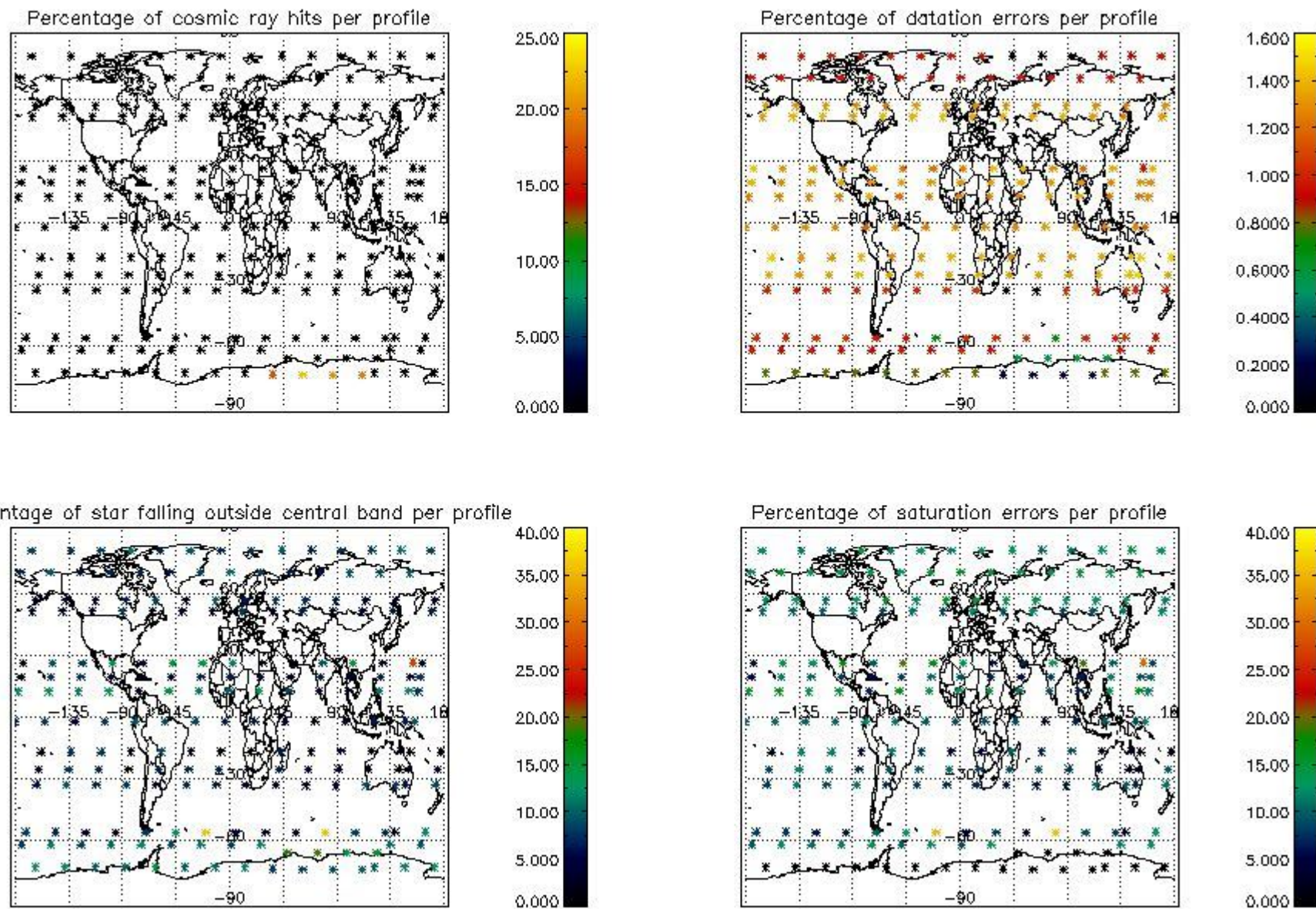


4.2 Plot quality information per product coming from level 1b processing (world map)

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

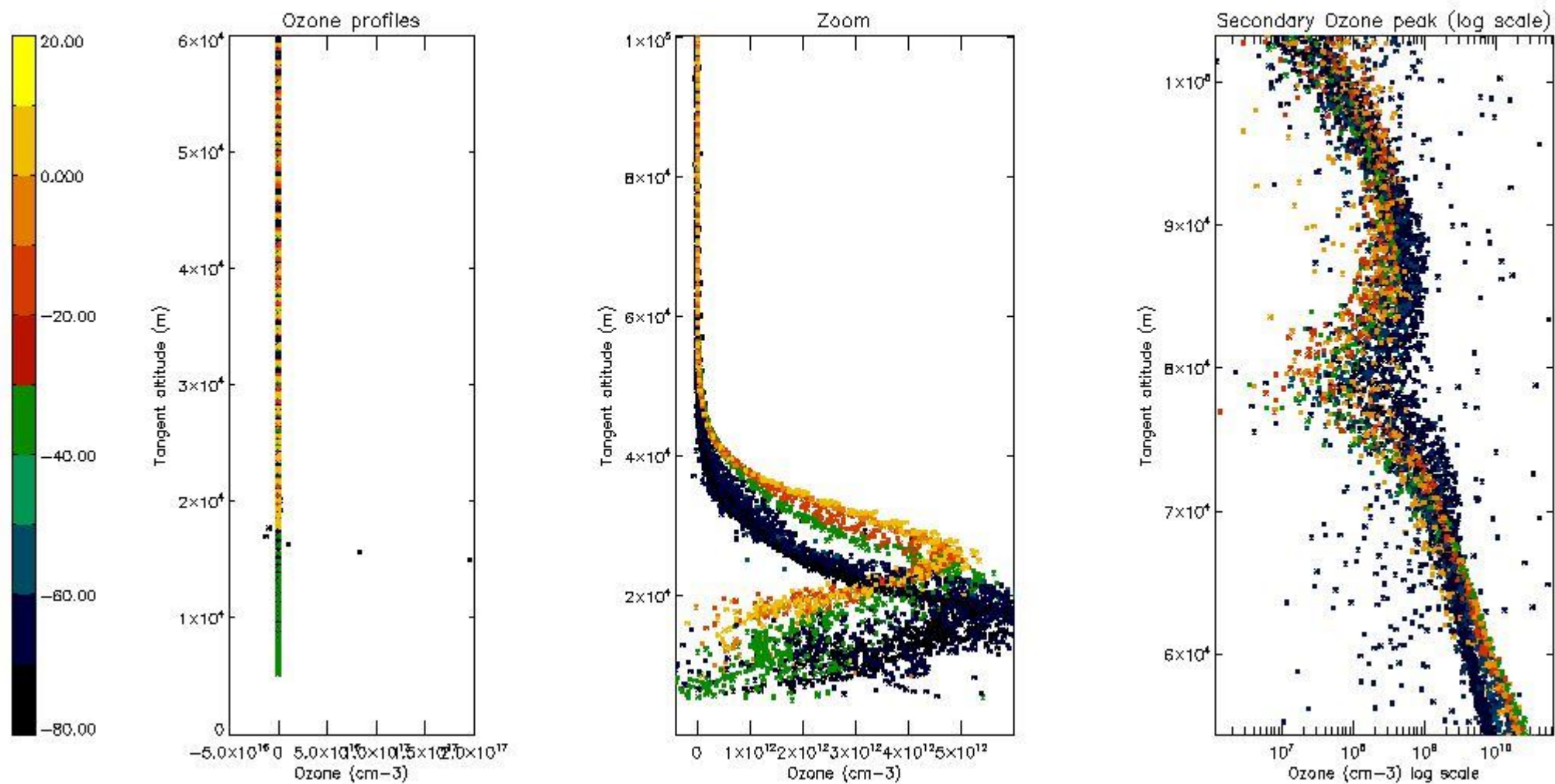
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	33
STD < 20	21

STD < 10	17
STD < 5	13

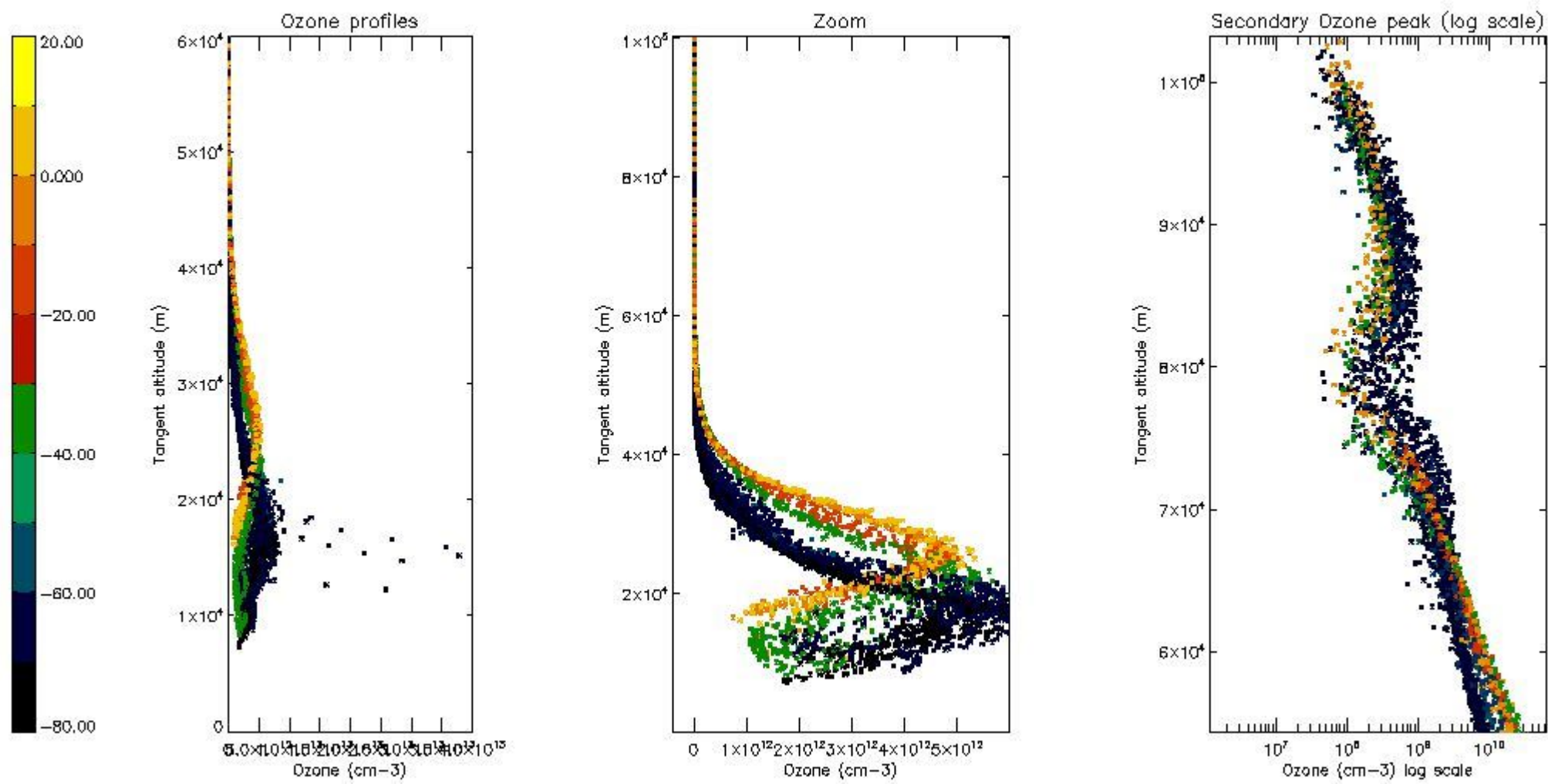
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



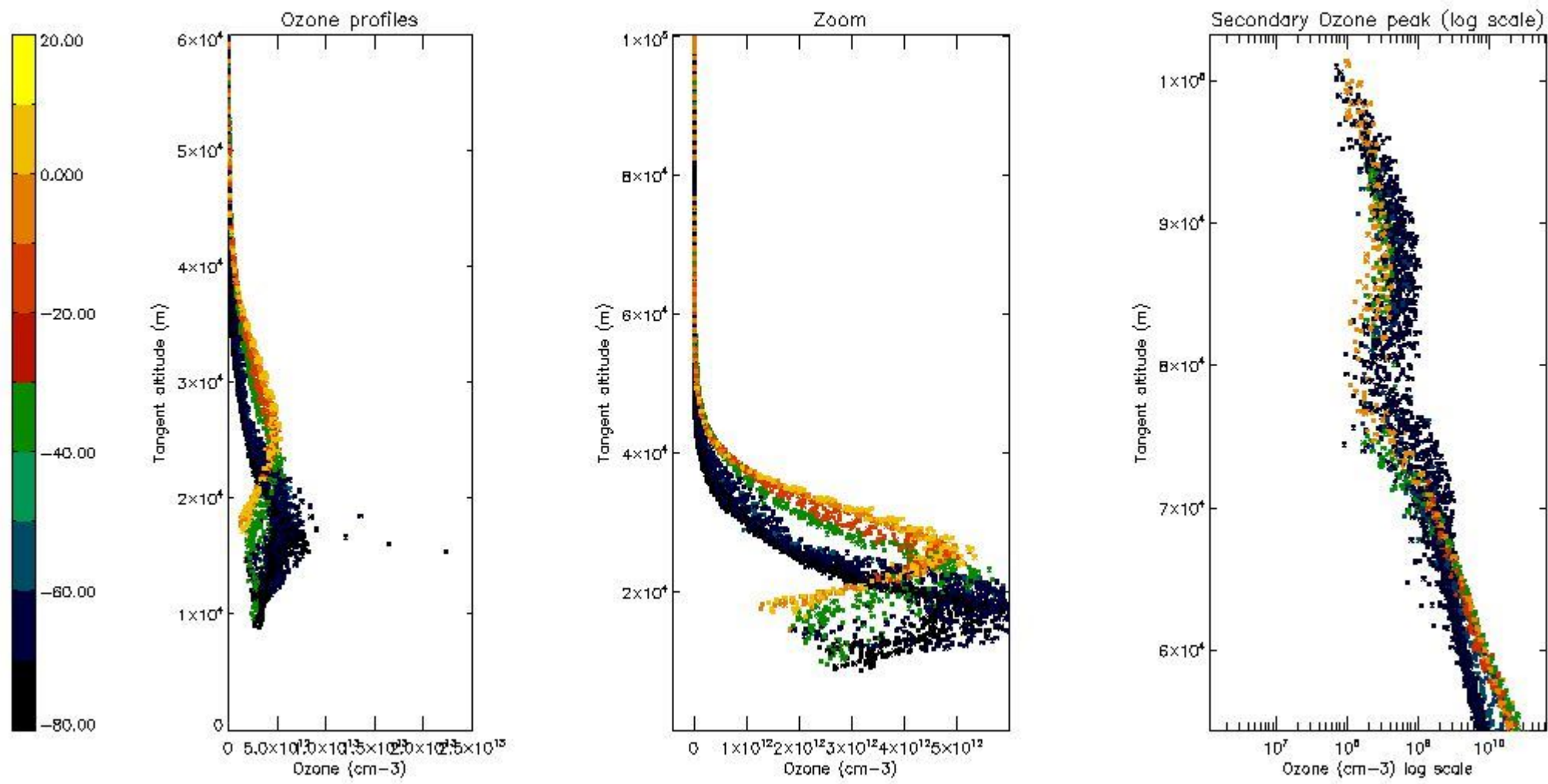
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



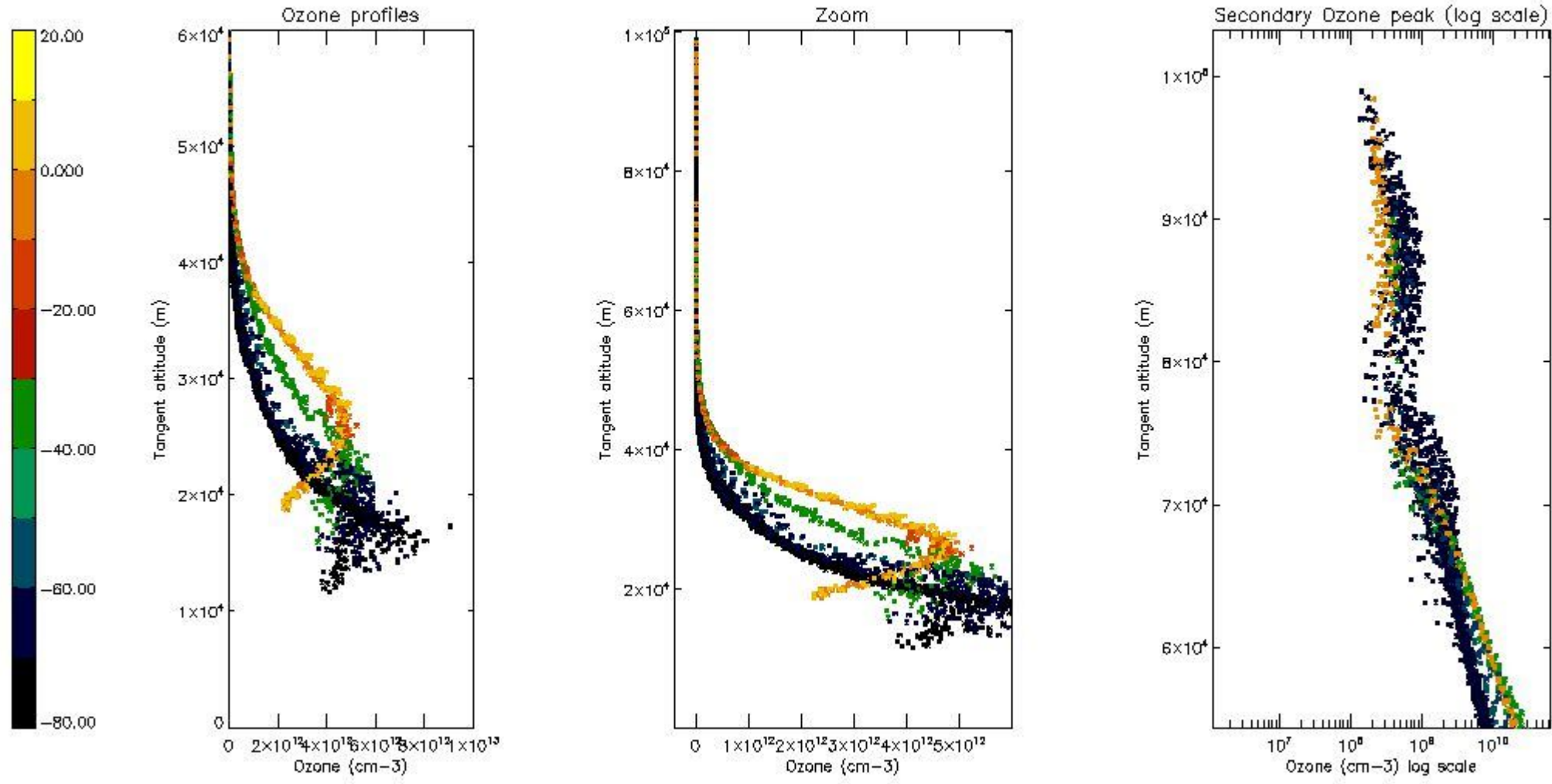
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



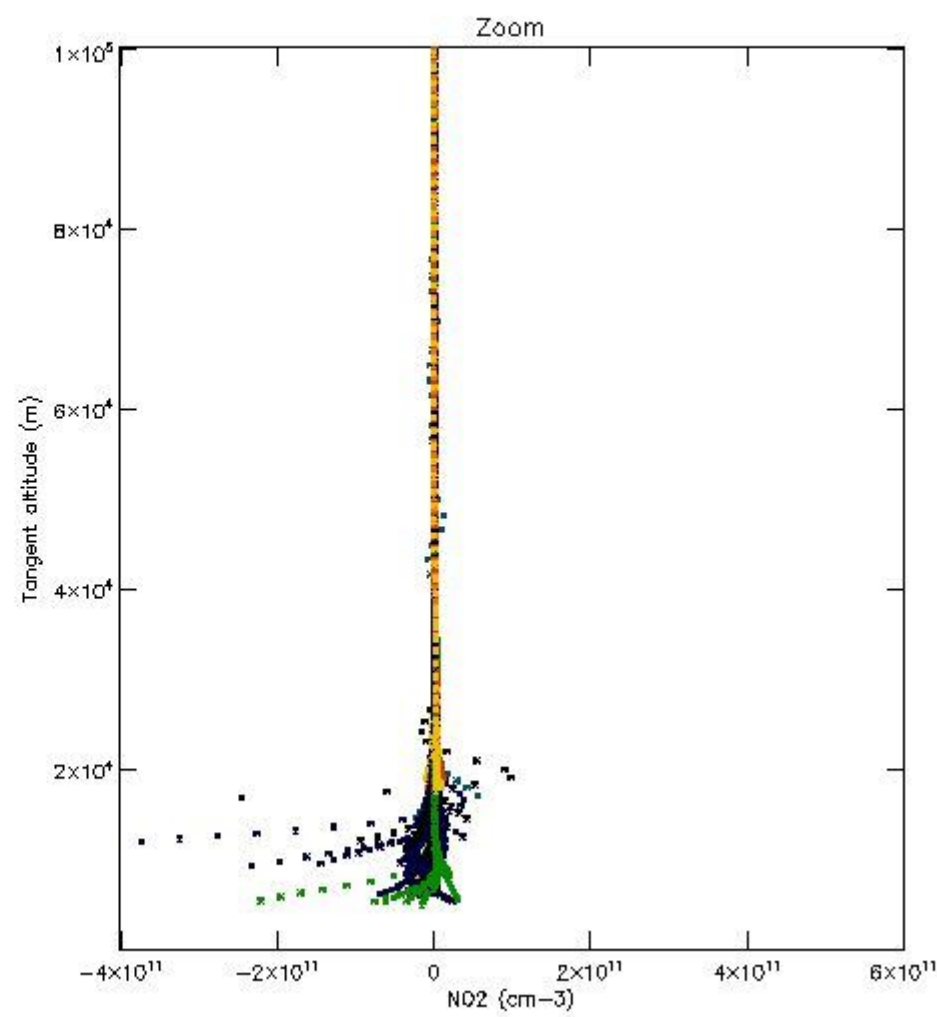
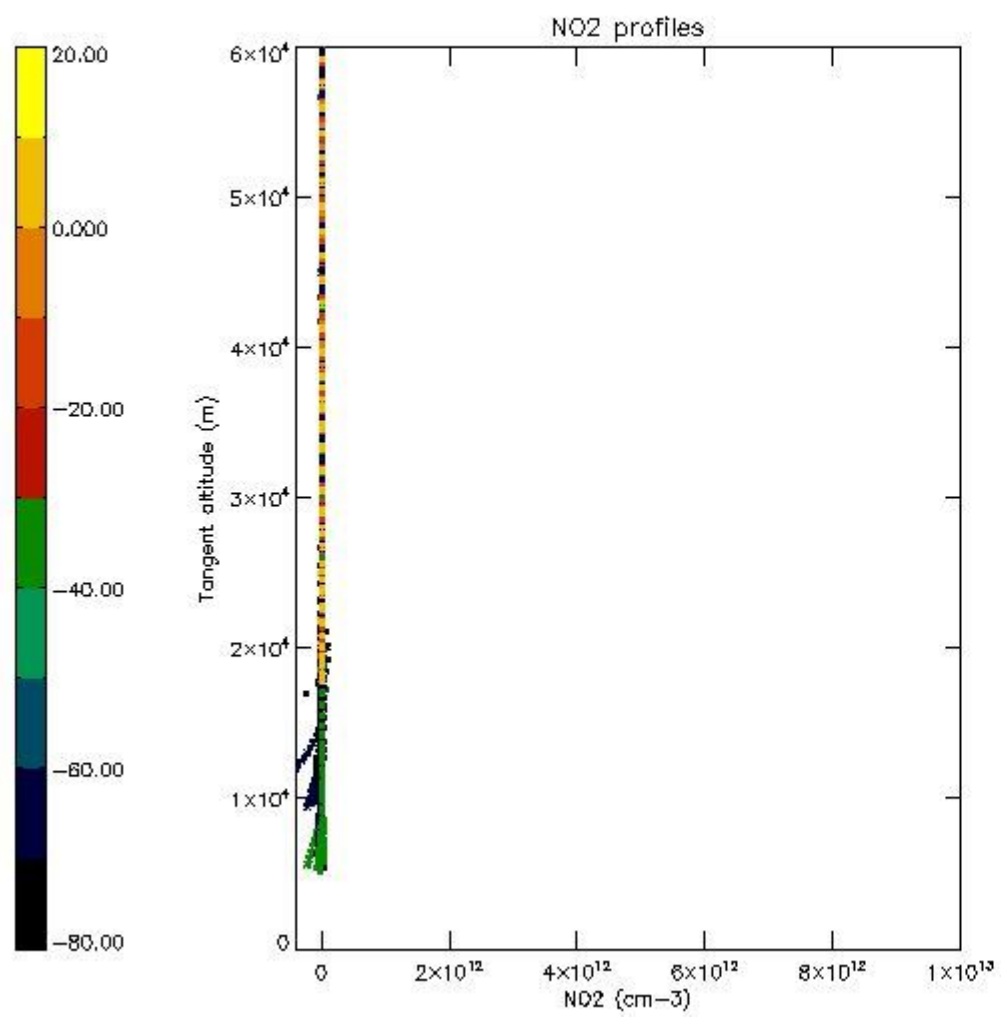
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



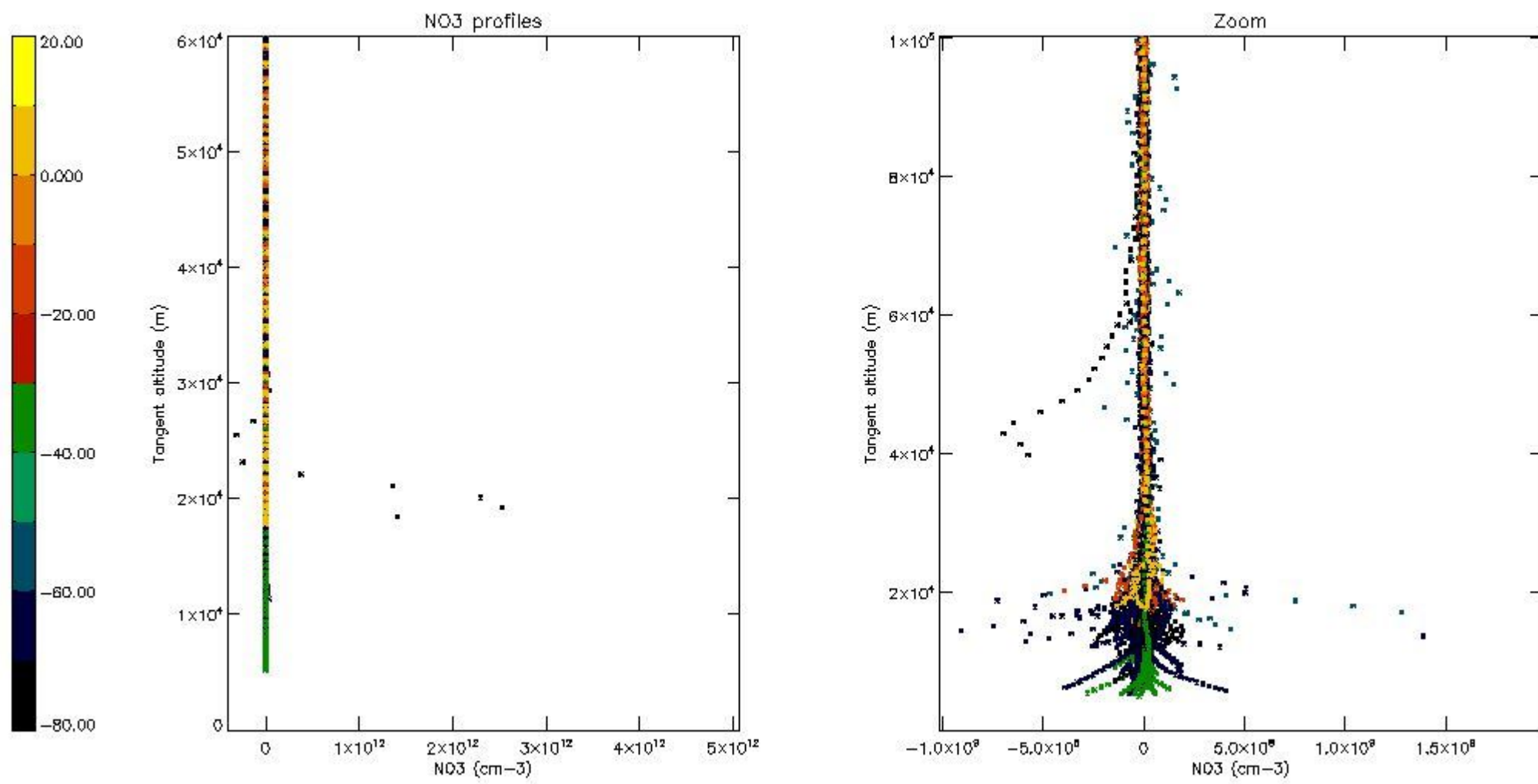
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



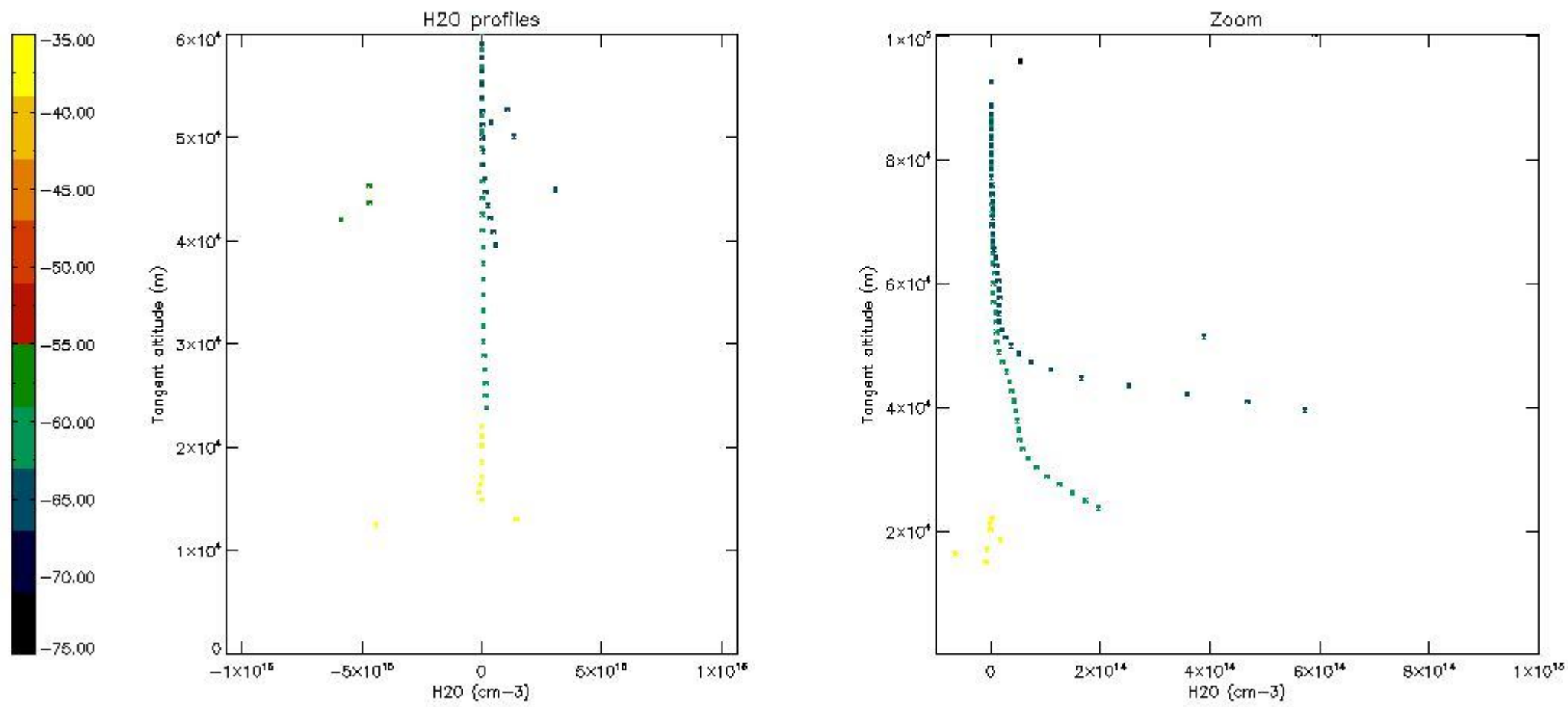
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

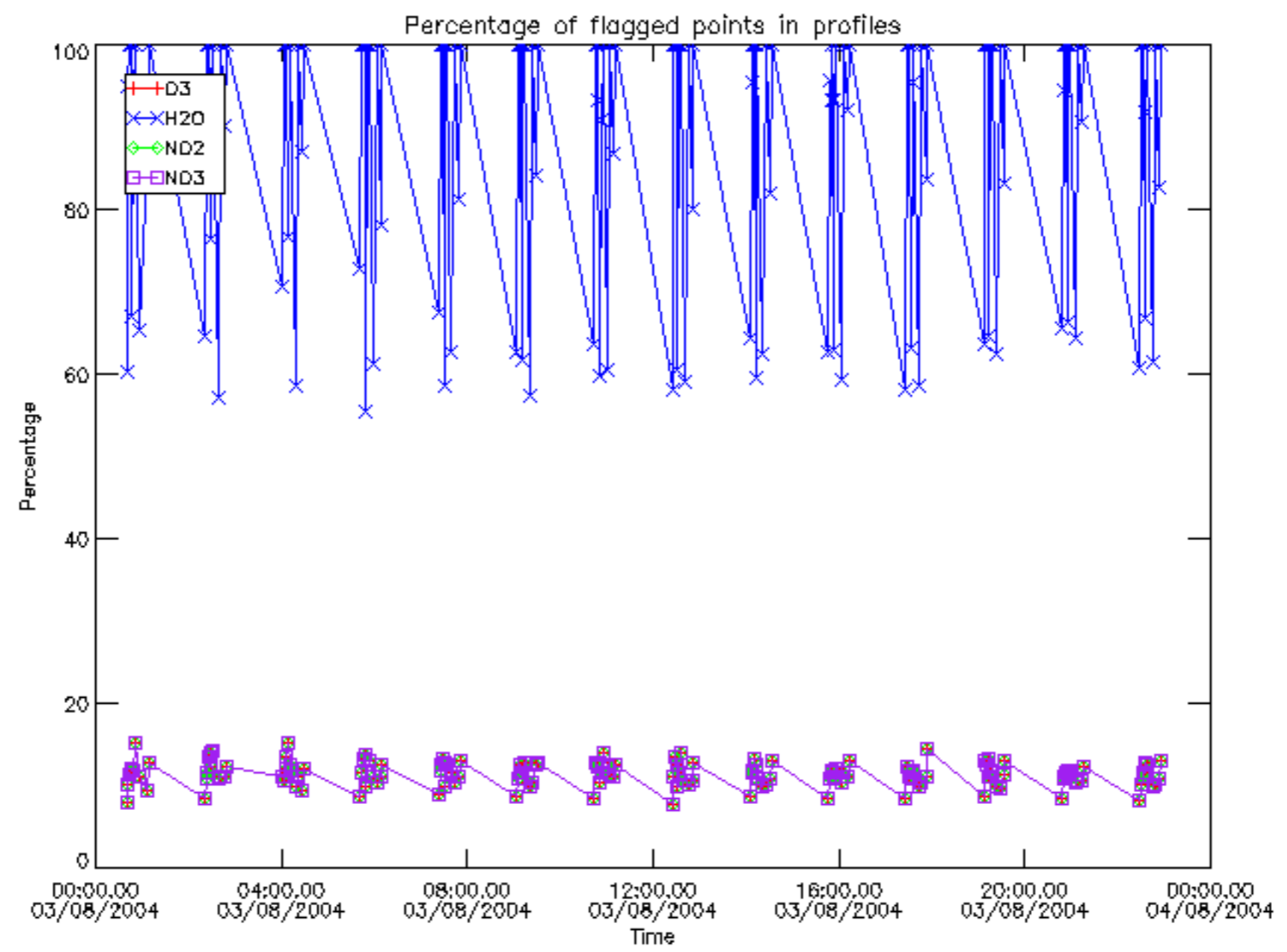
The colorbar represents the latitude.



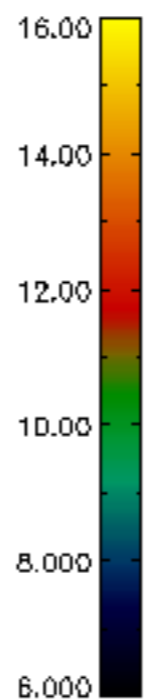
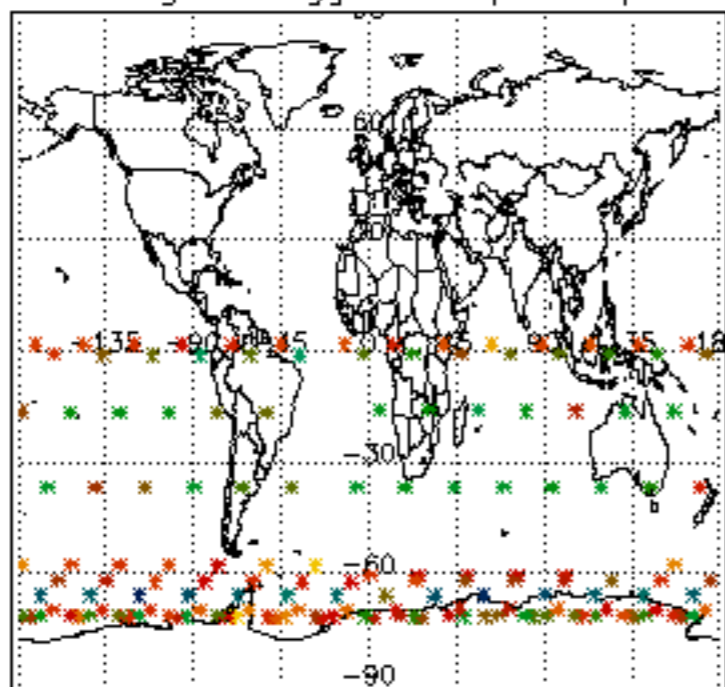
6. Auxiliary Data Files used for the production reported in section 2

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.

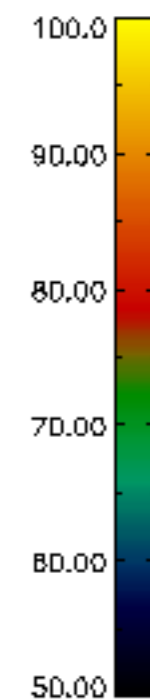
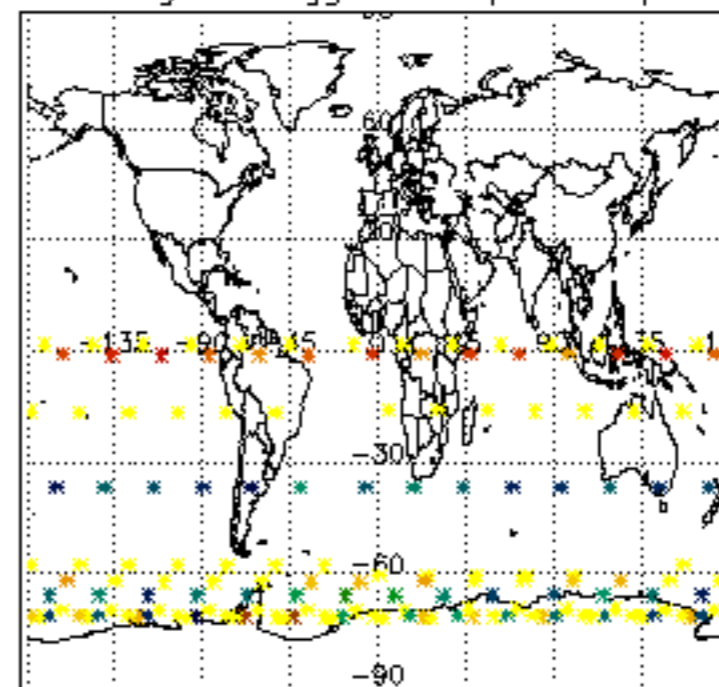
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	03-AUG-2004 00:03:00
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	03-AUG-2004 00:03:00
CROSS_SECTIONS_FILE	GOM_CR2_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	03-AUG-2004 00:03:00



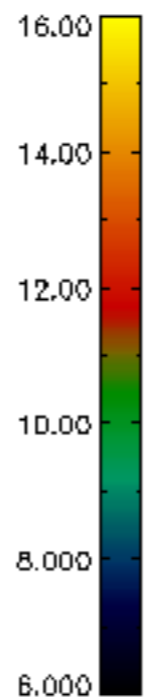
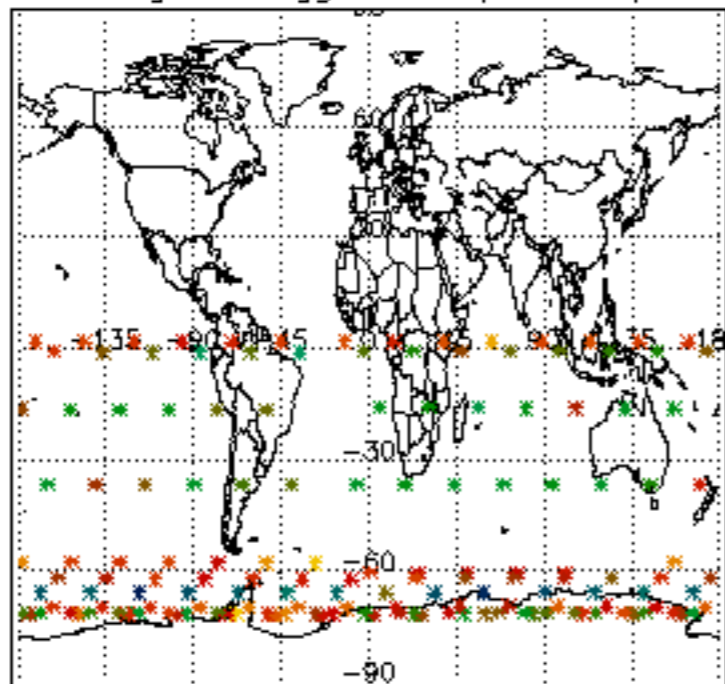
Percentage of flagged data per D3 profile



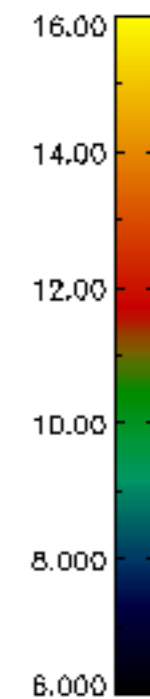
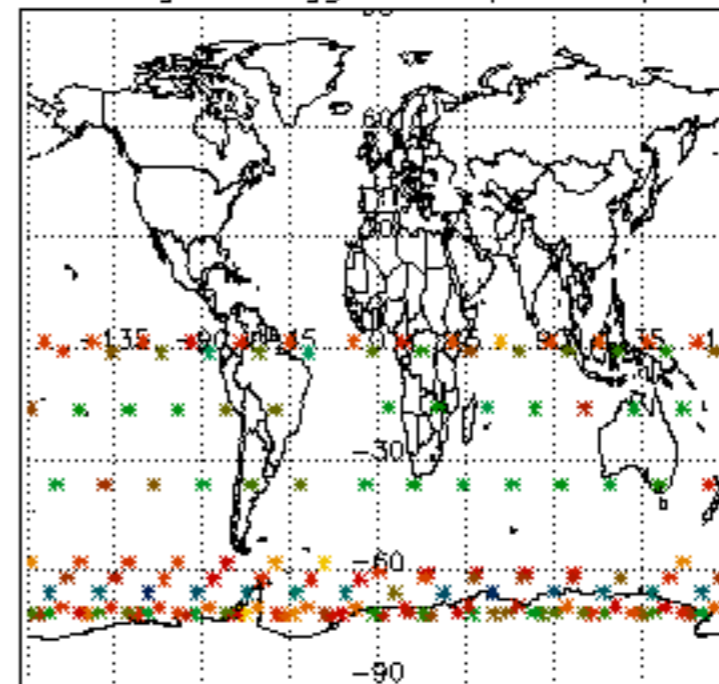
Percentage of flagged data per H2O profile

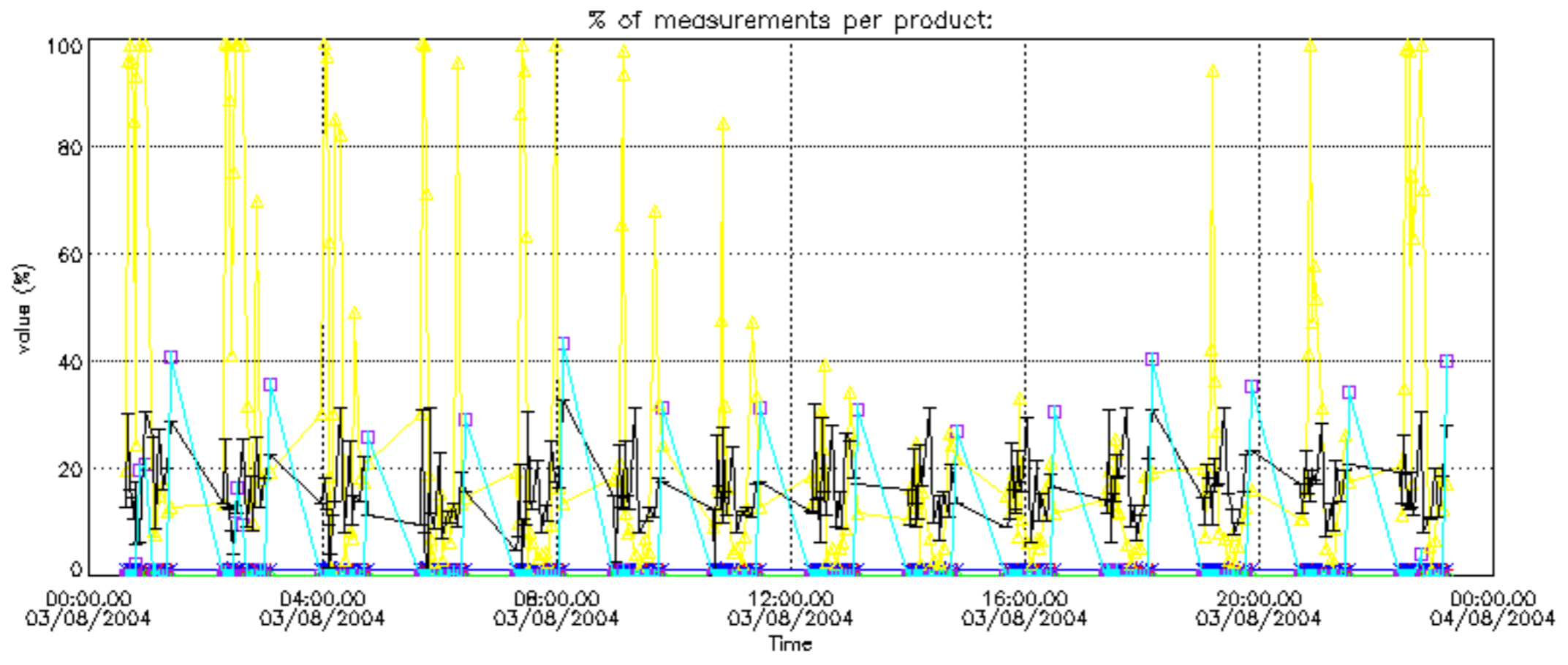


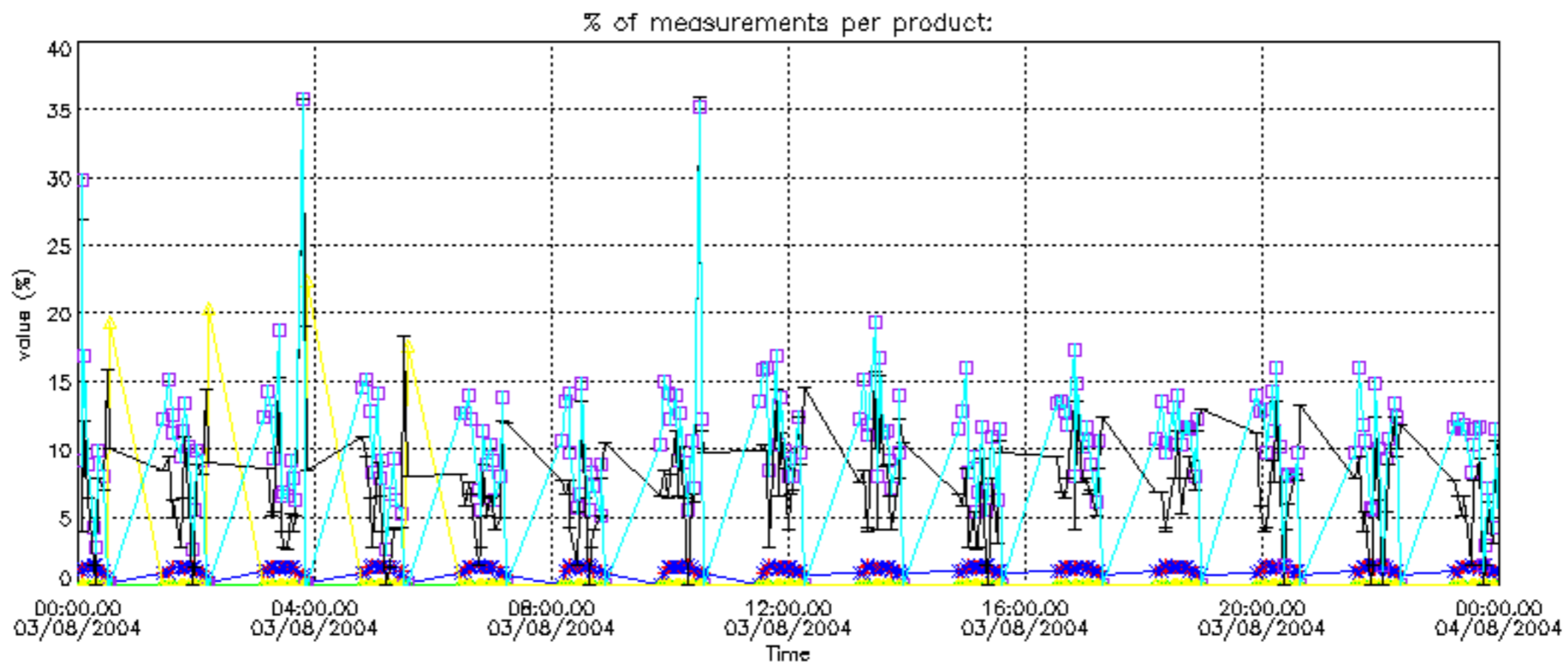
Percentage of flagged data per NO2 profile



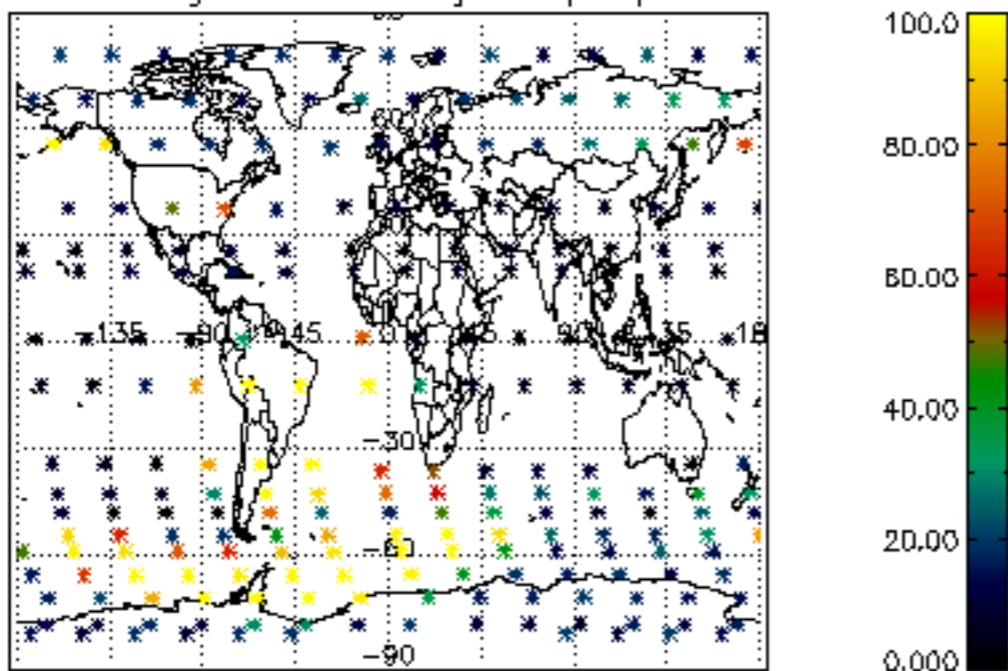
Percentage of flagged data per NO3 profile



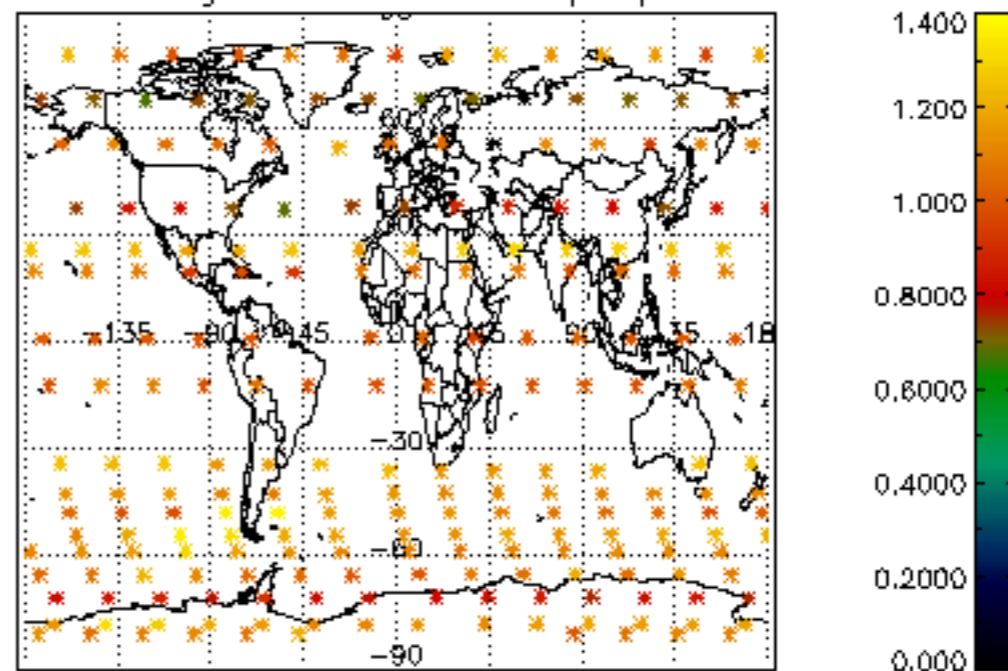




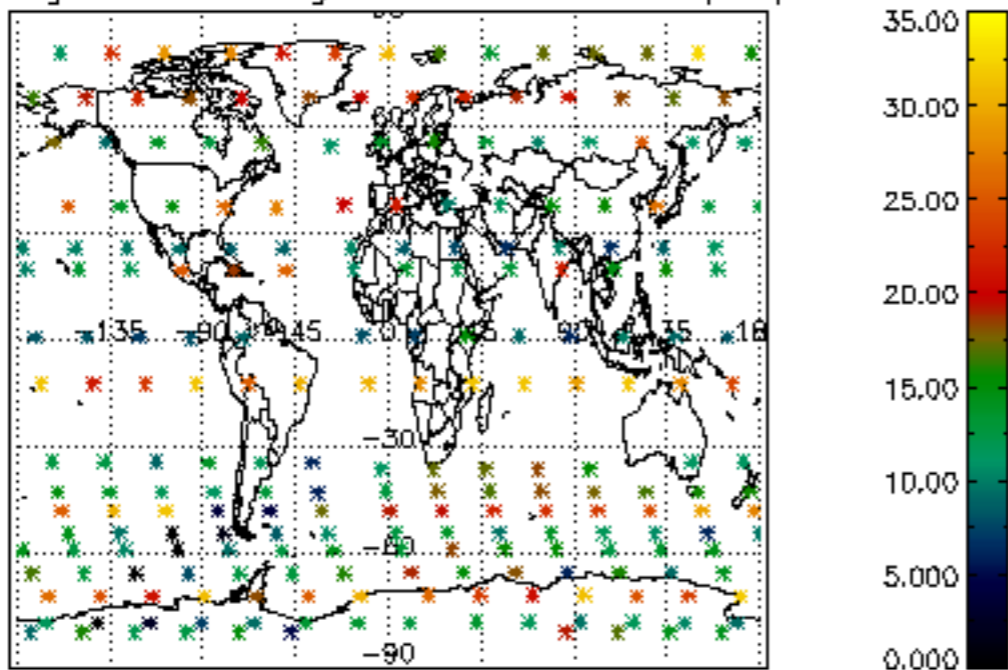
Percentage of cosmic ray hits per profile



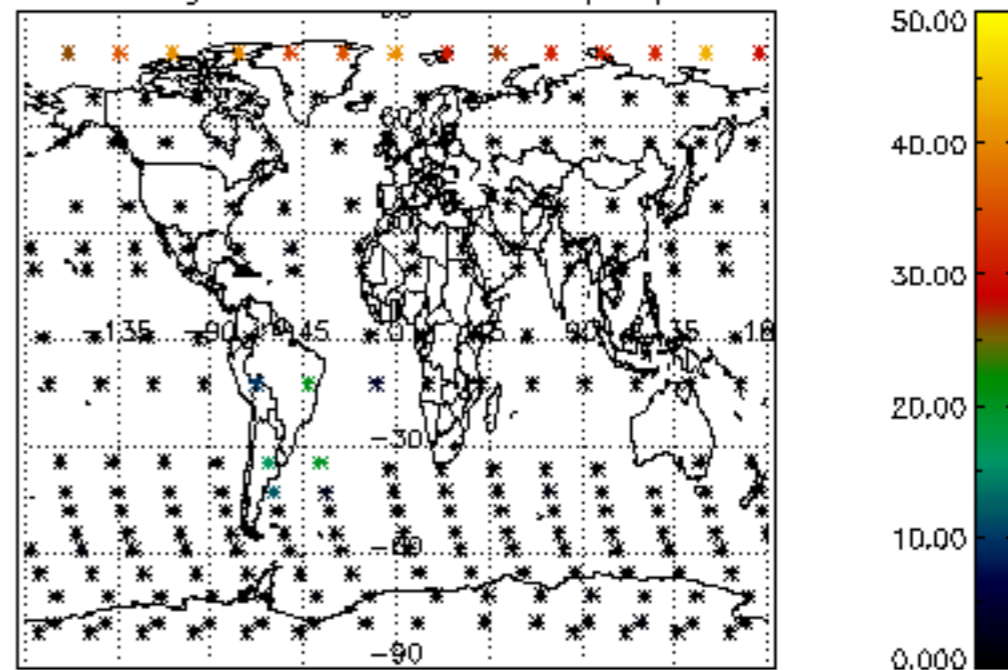
Percentage of datation errors per profile



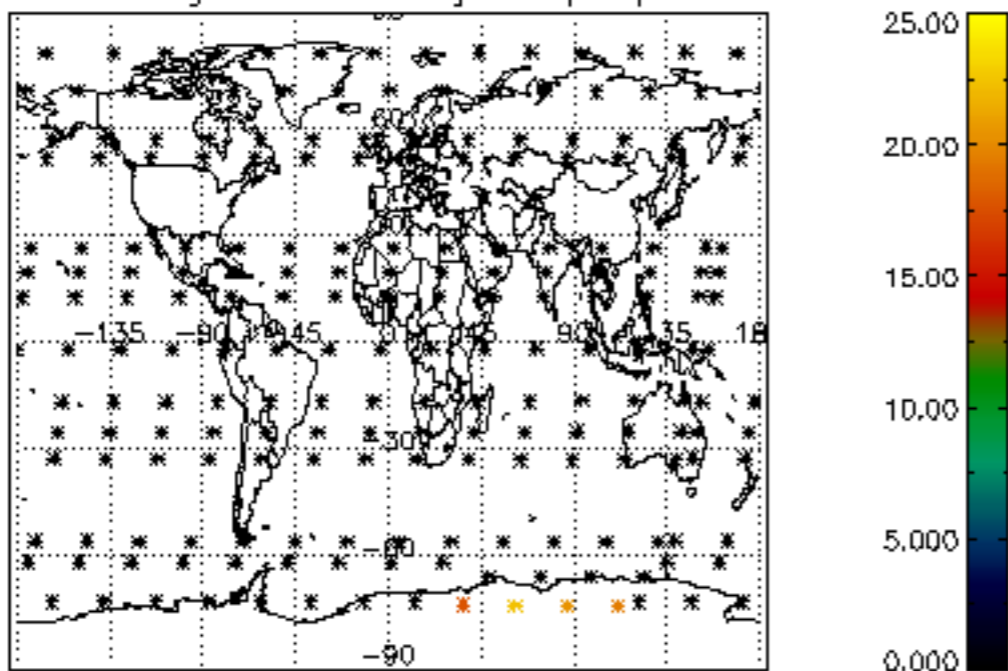
Percentage of star falling outside central band per profile



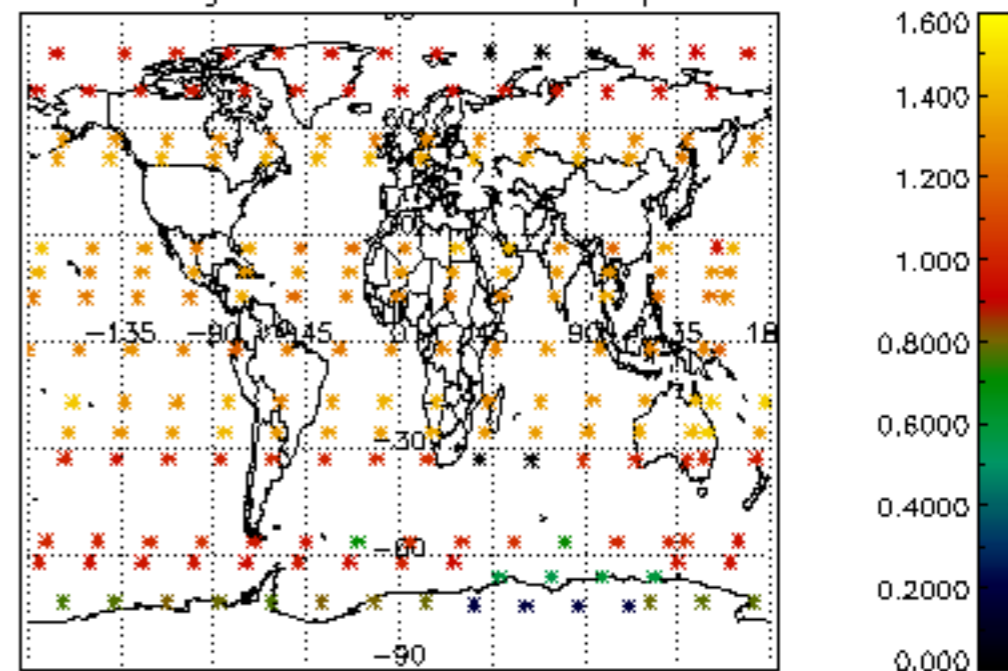
Percentage of saturation errors per profile



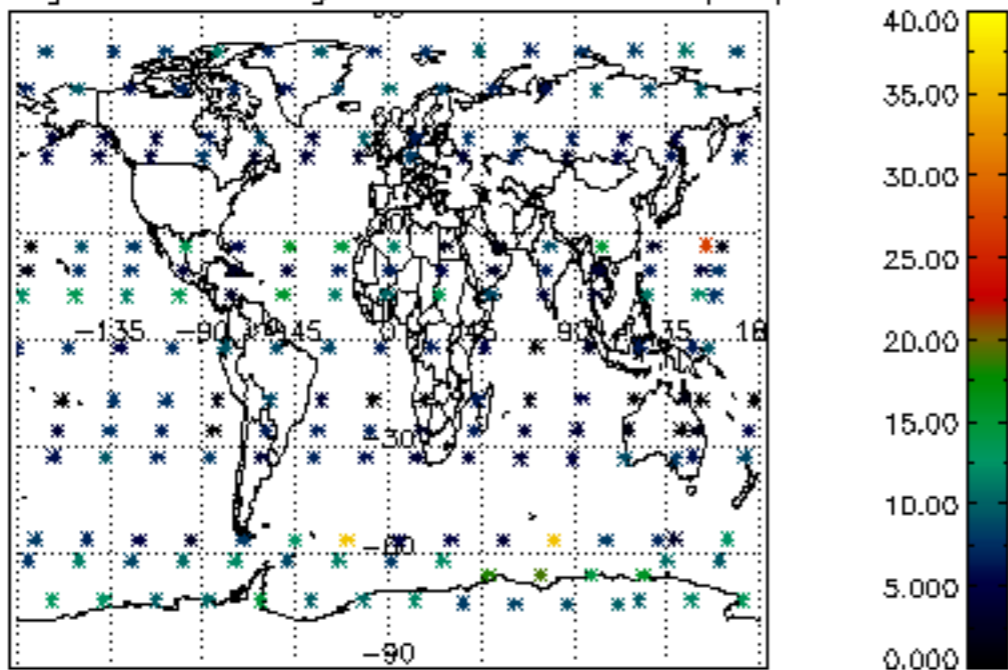
Percentage of cosmic ray hits per profile



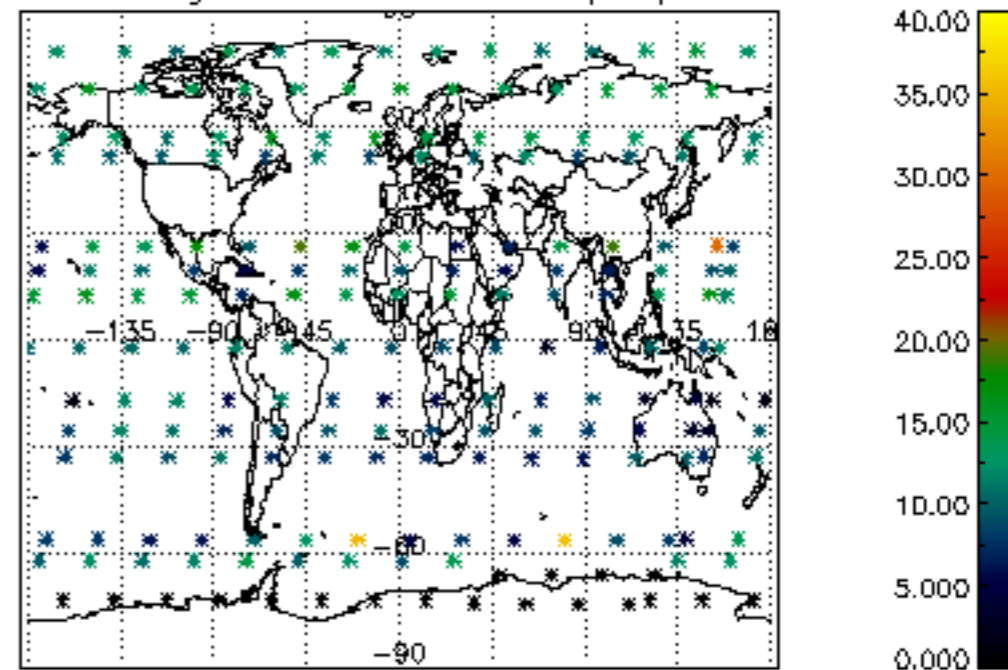
Percentage of datation errors per profile

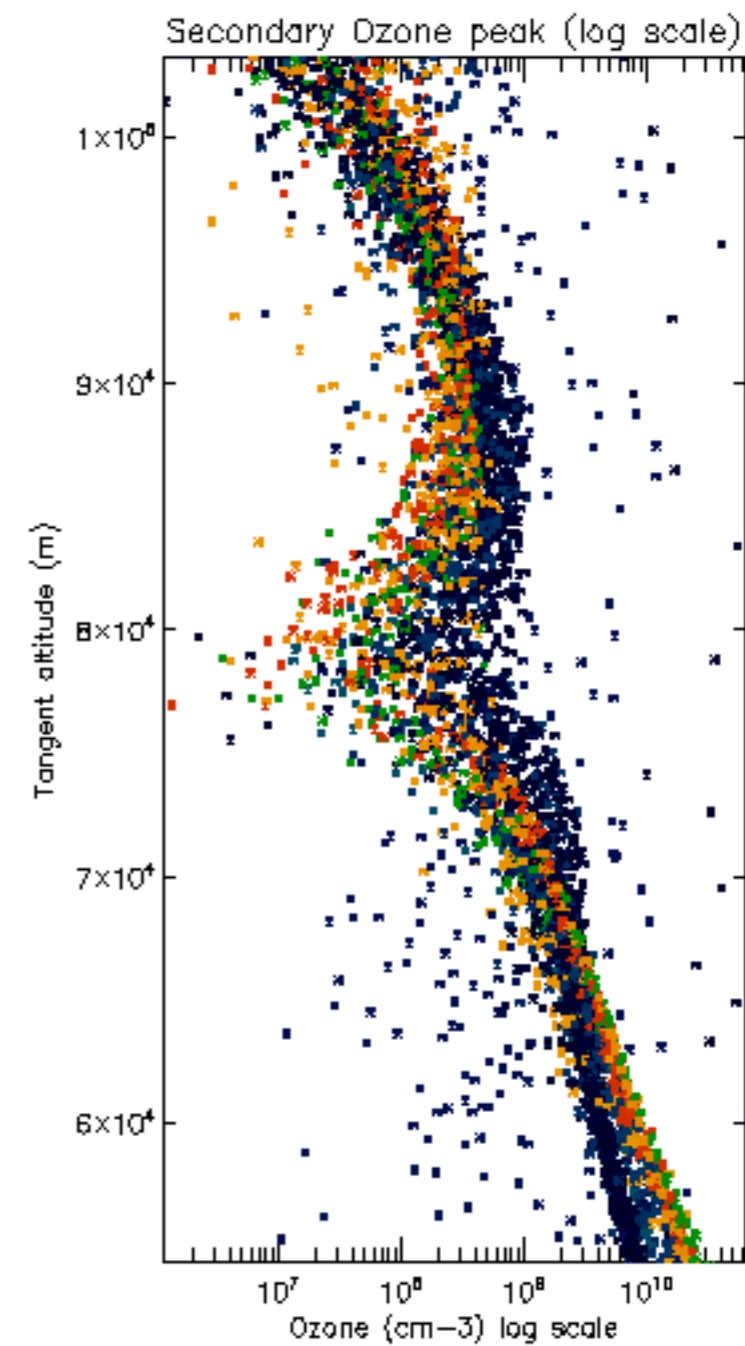
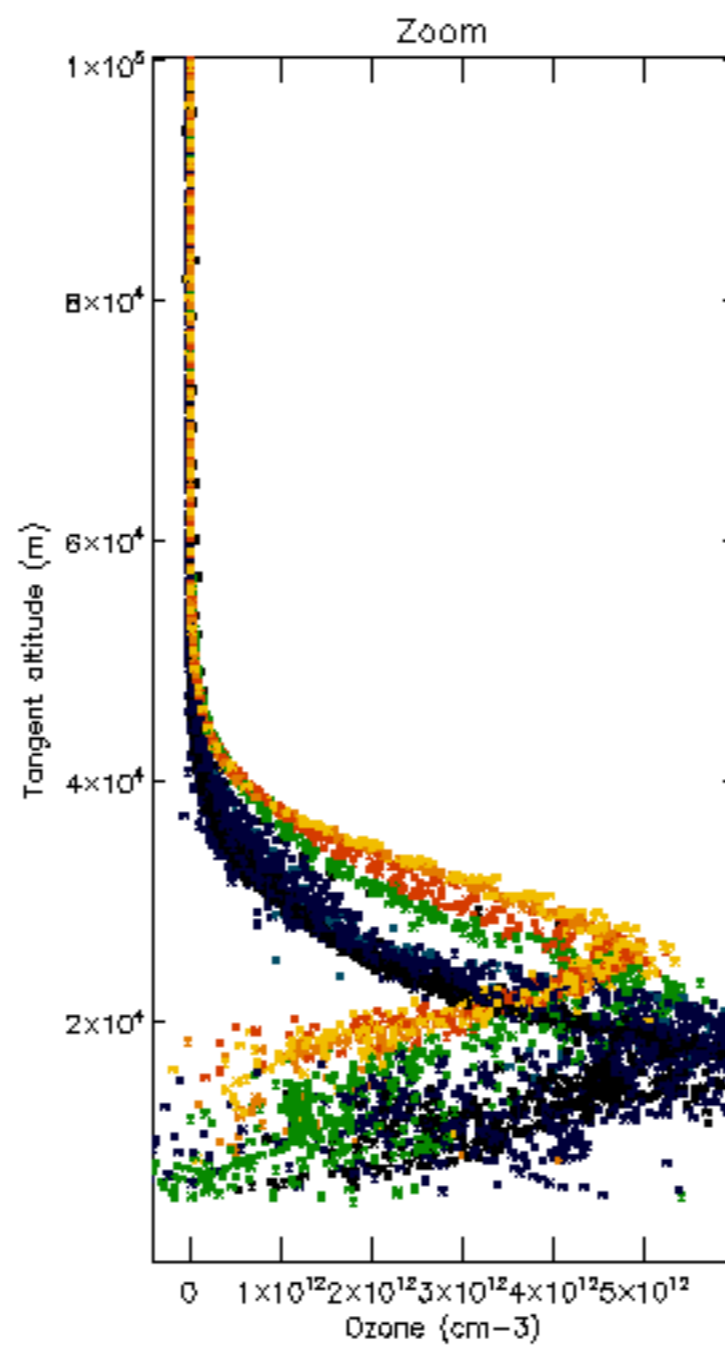
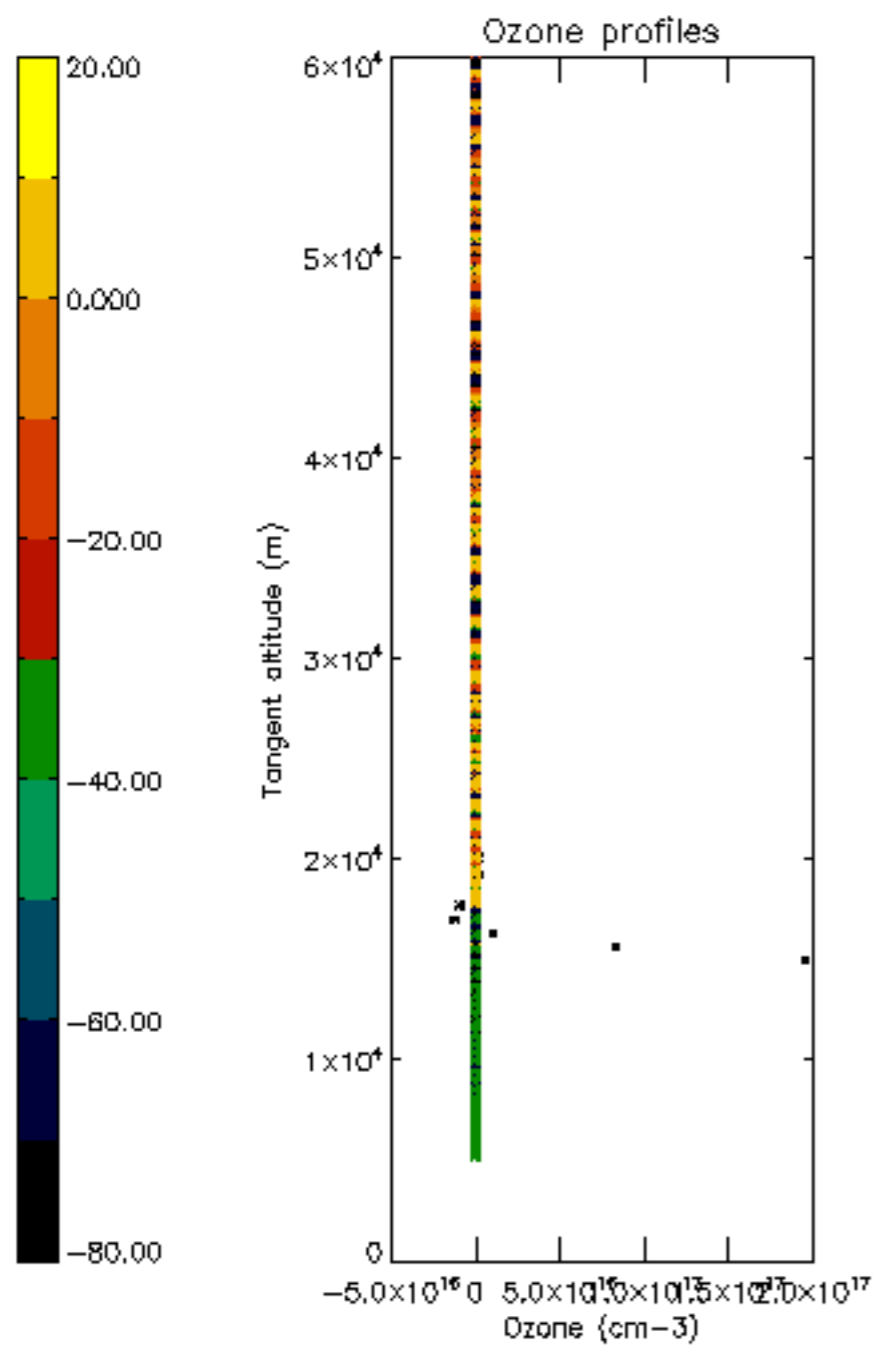


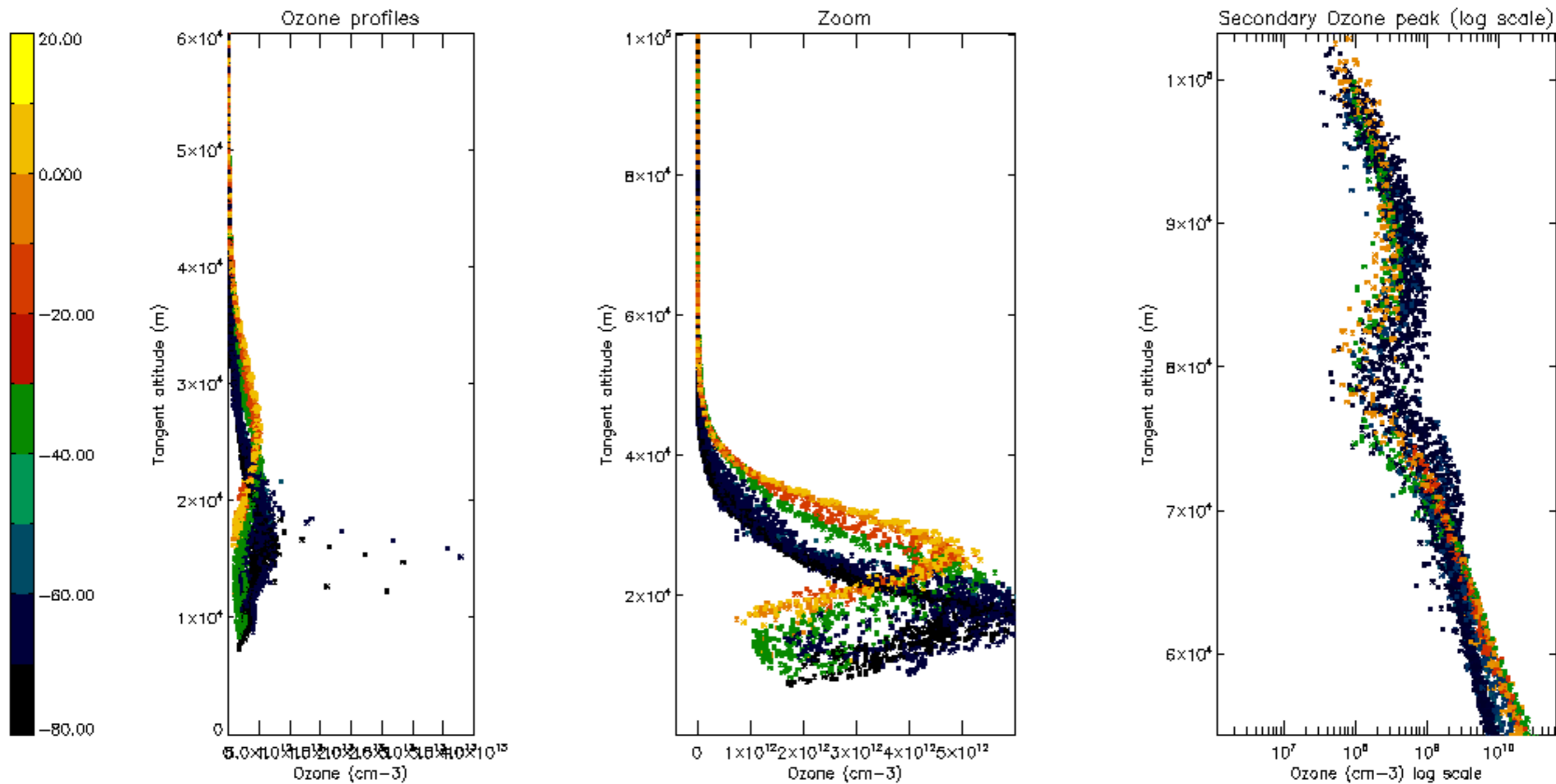
Percentage of star falling outside central band per profile

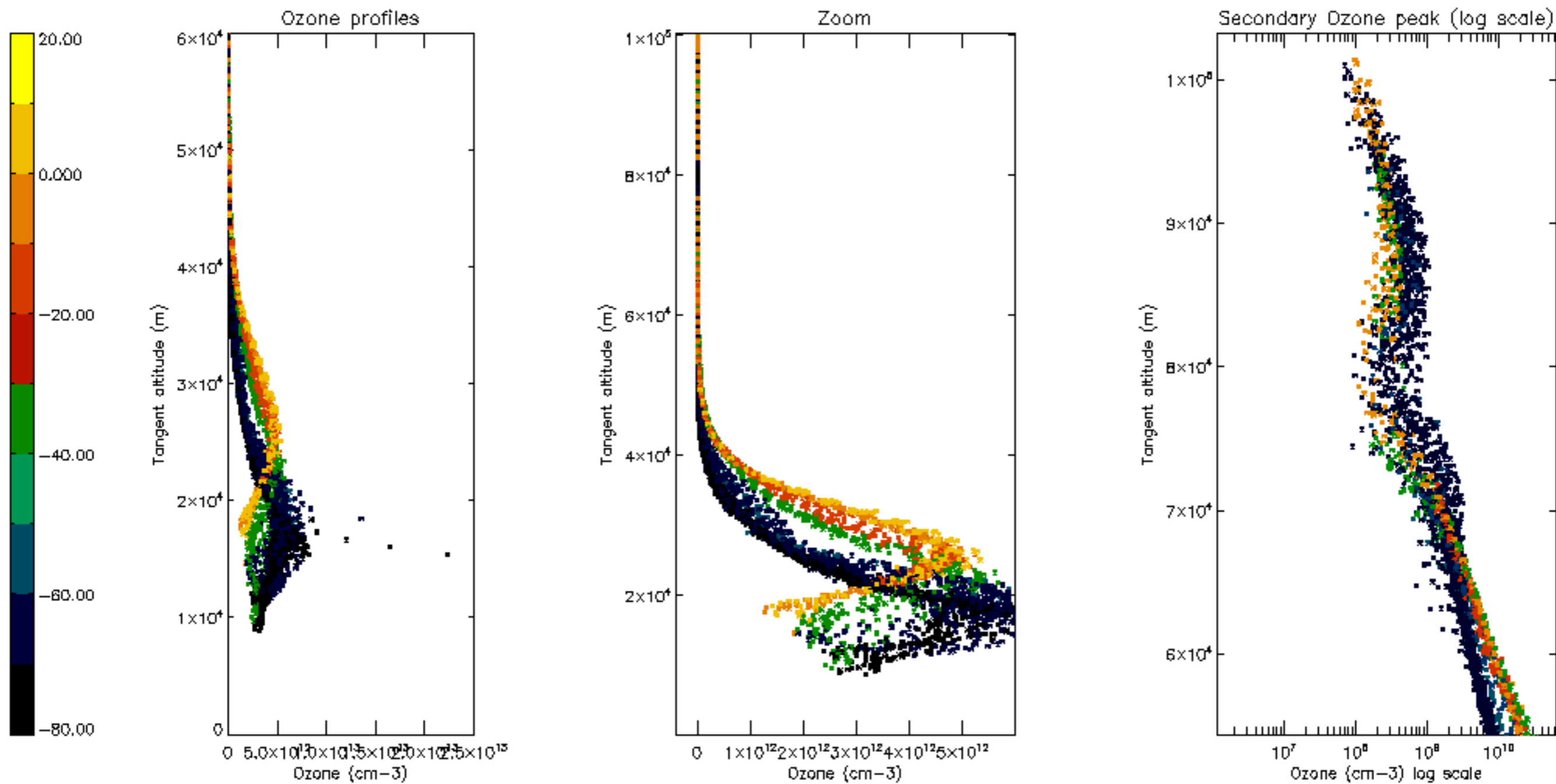


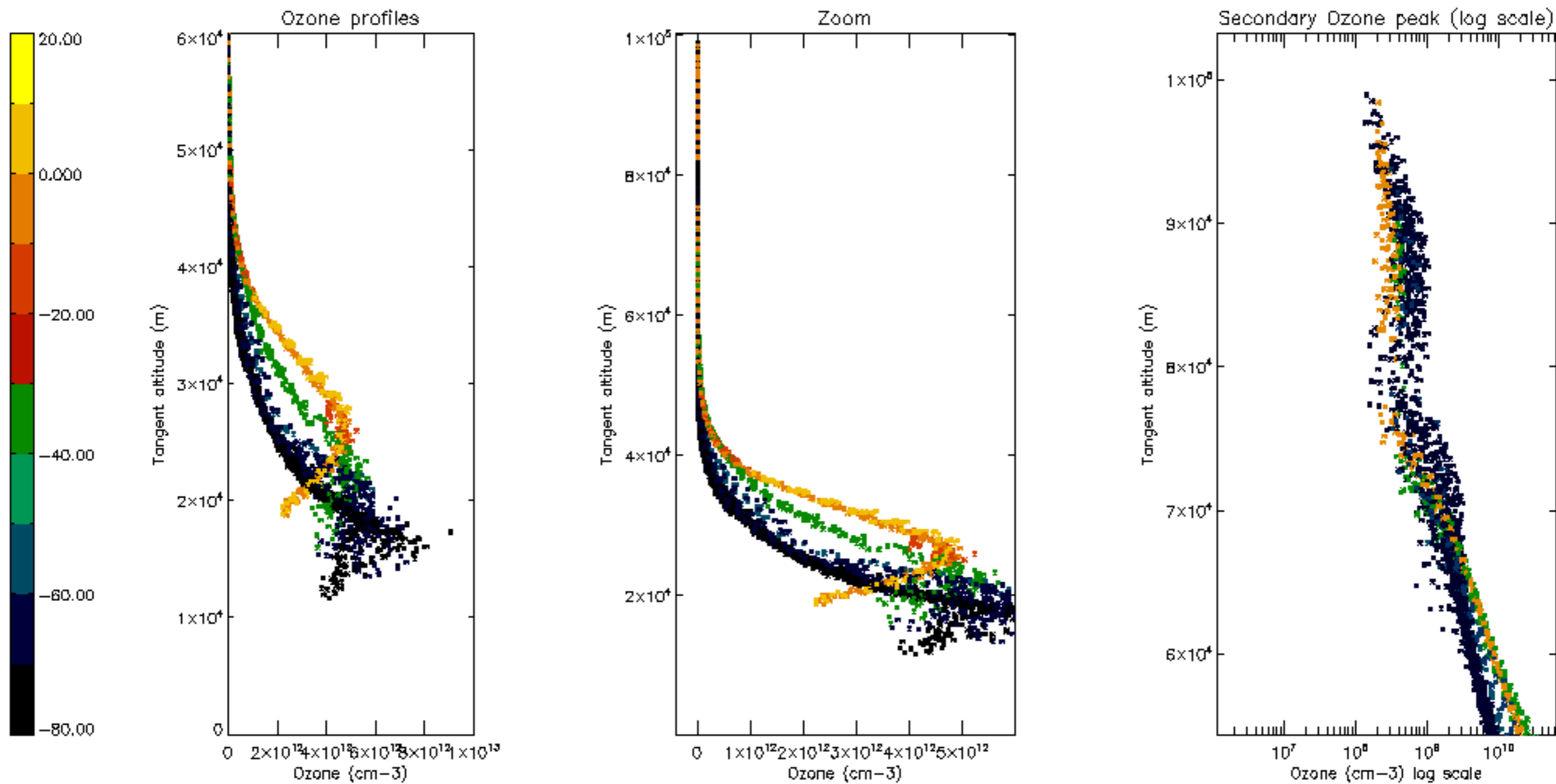
Percentage of saturation errors per profile

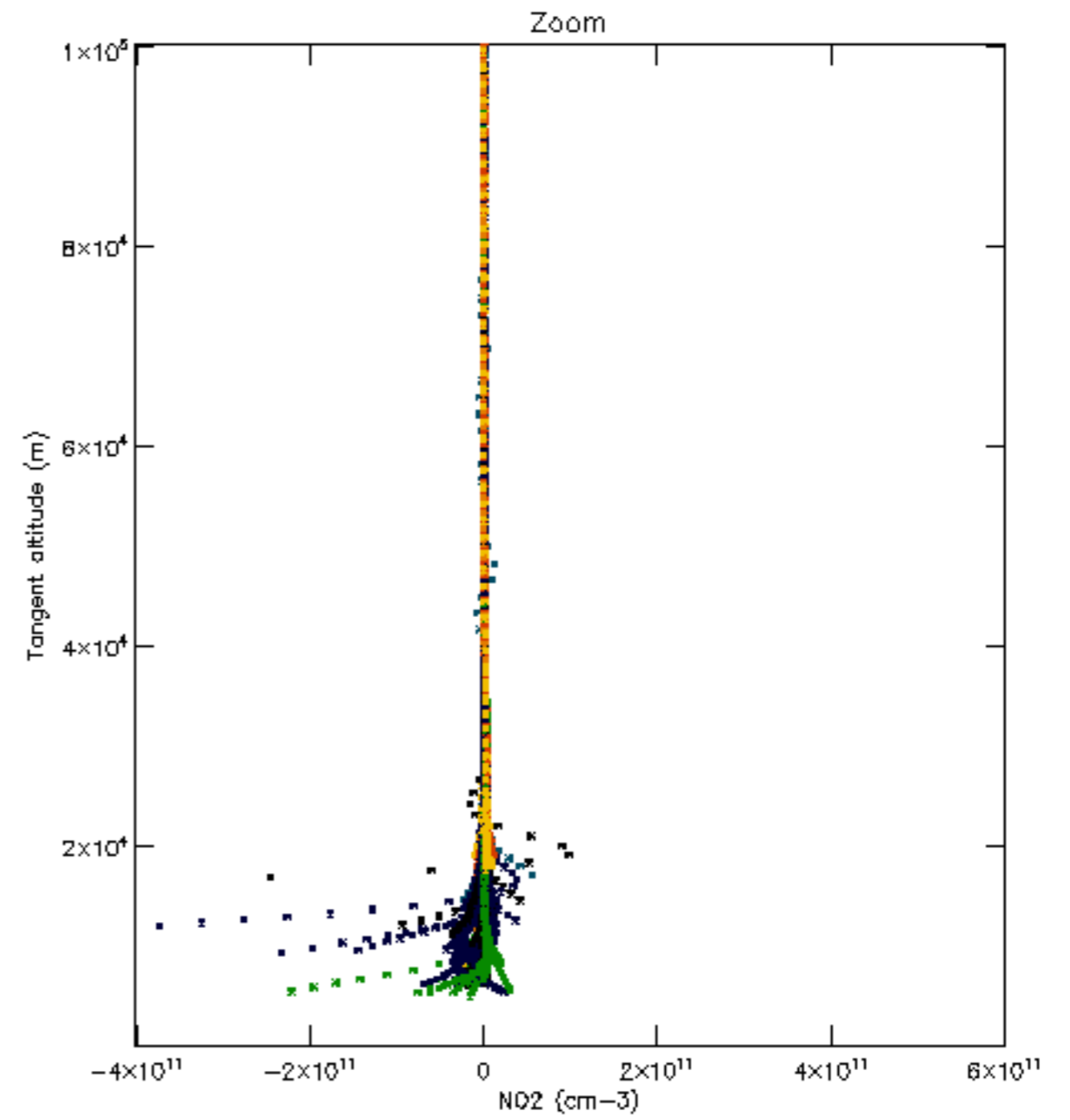
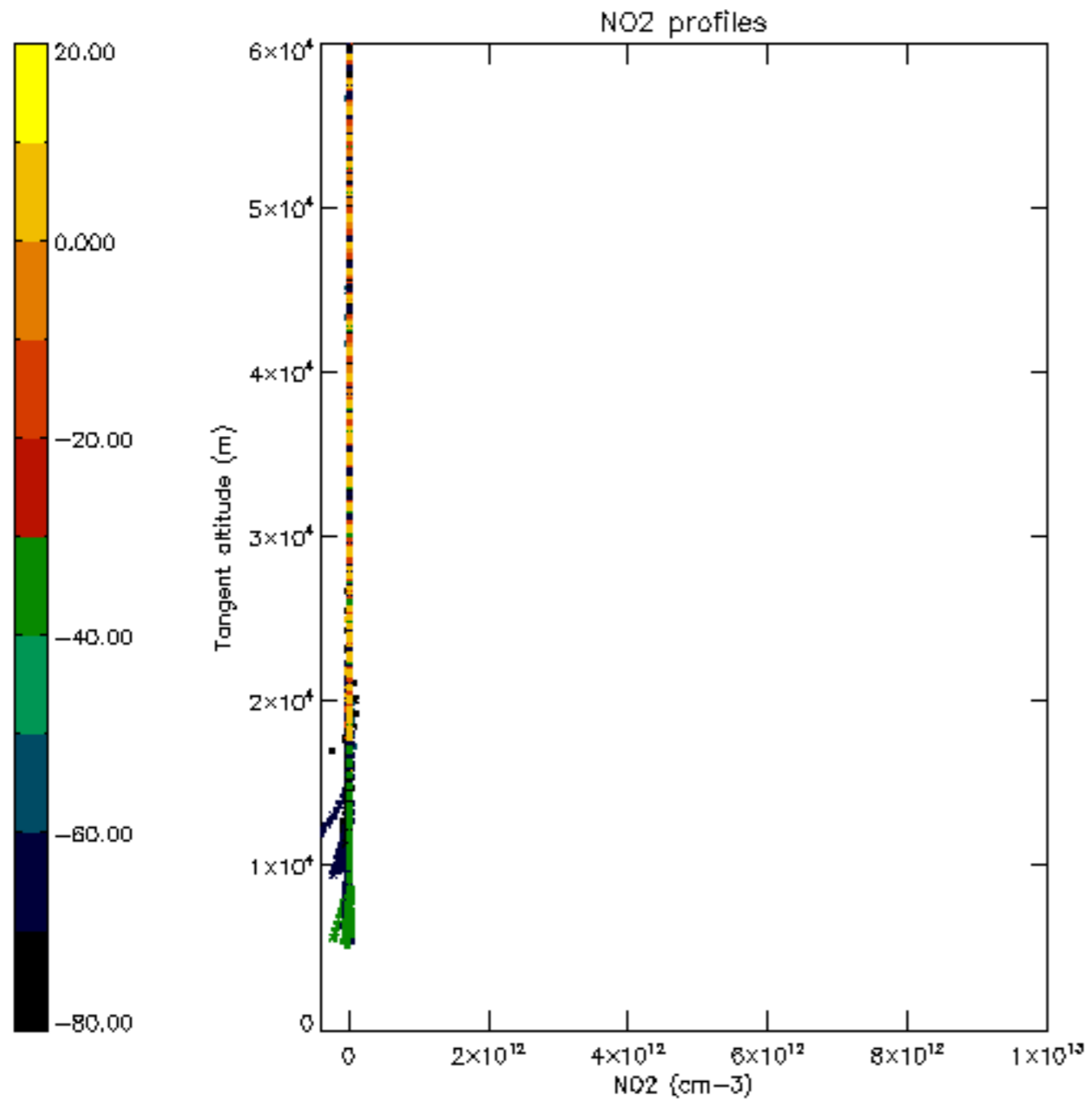


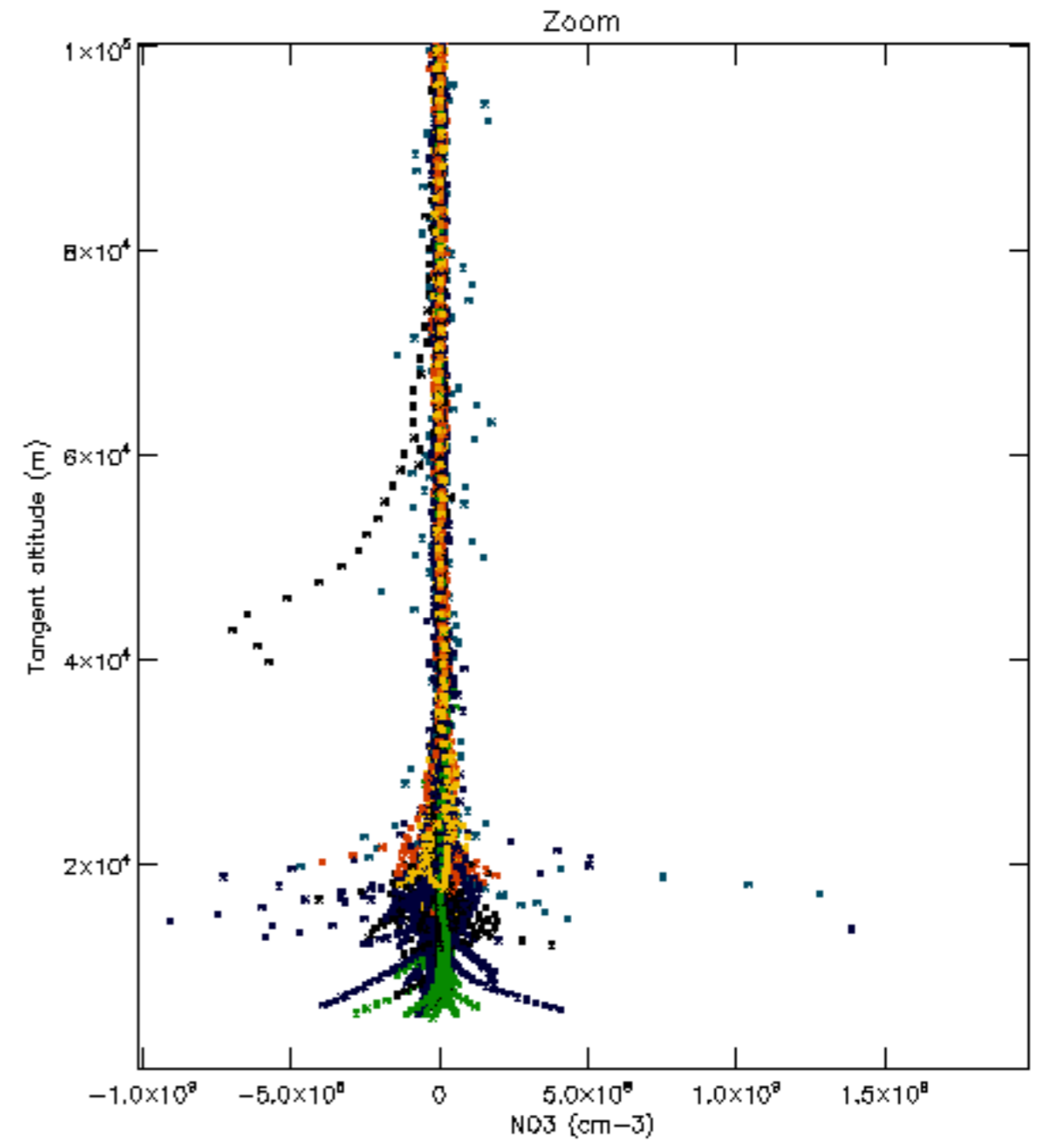
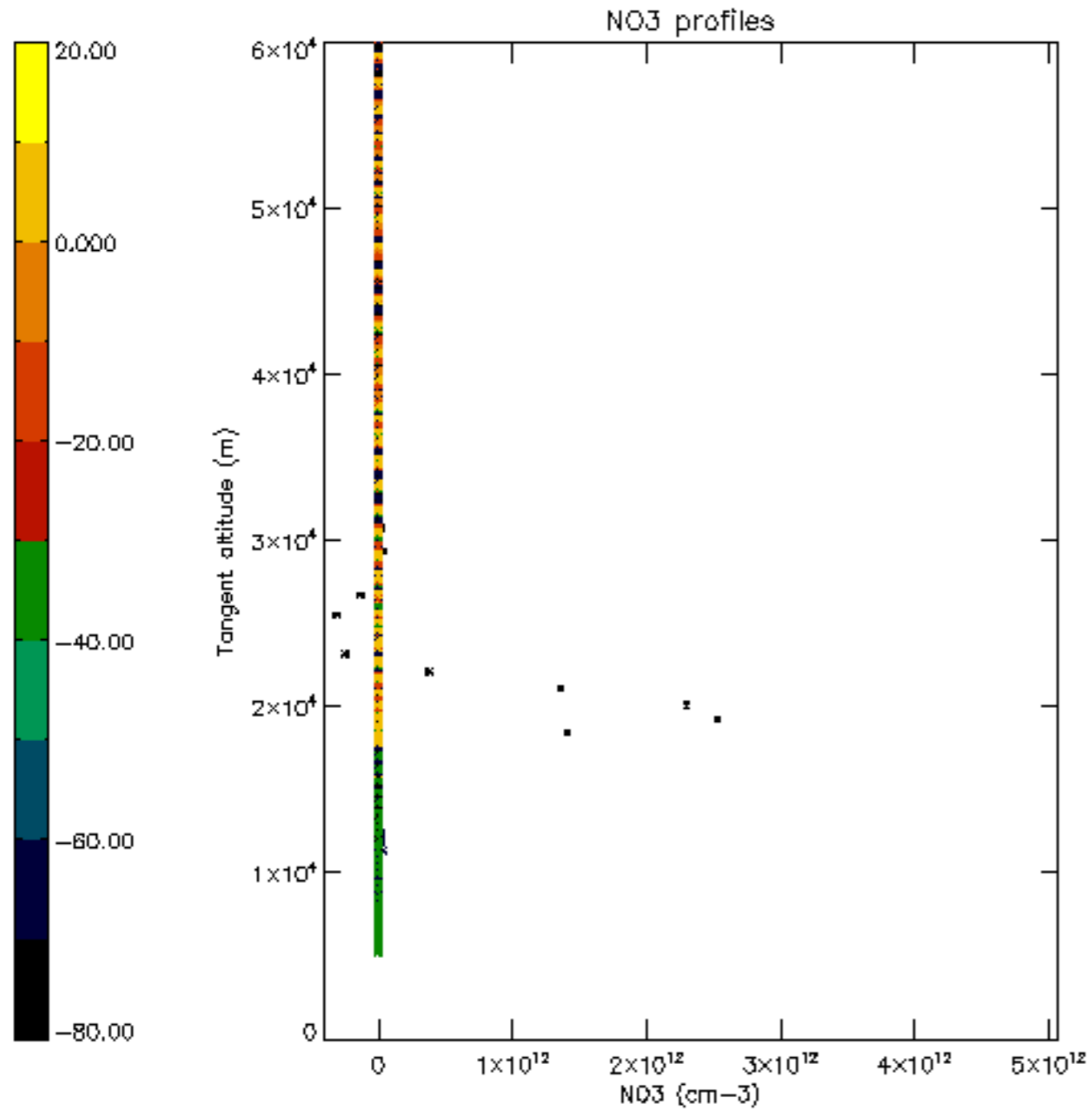


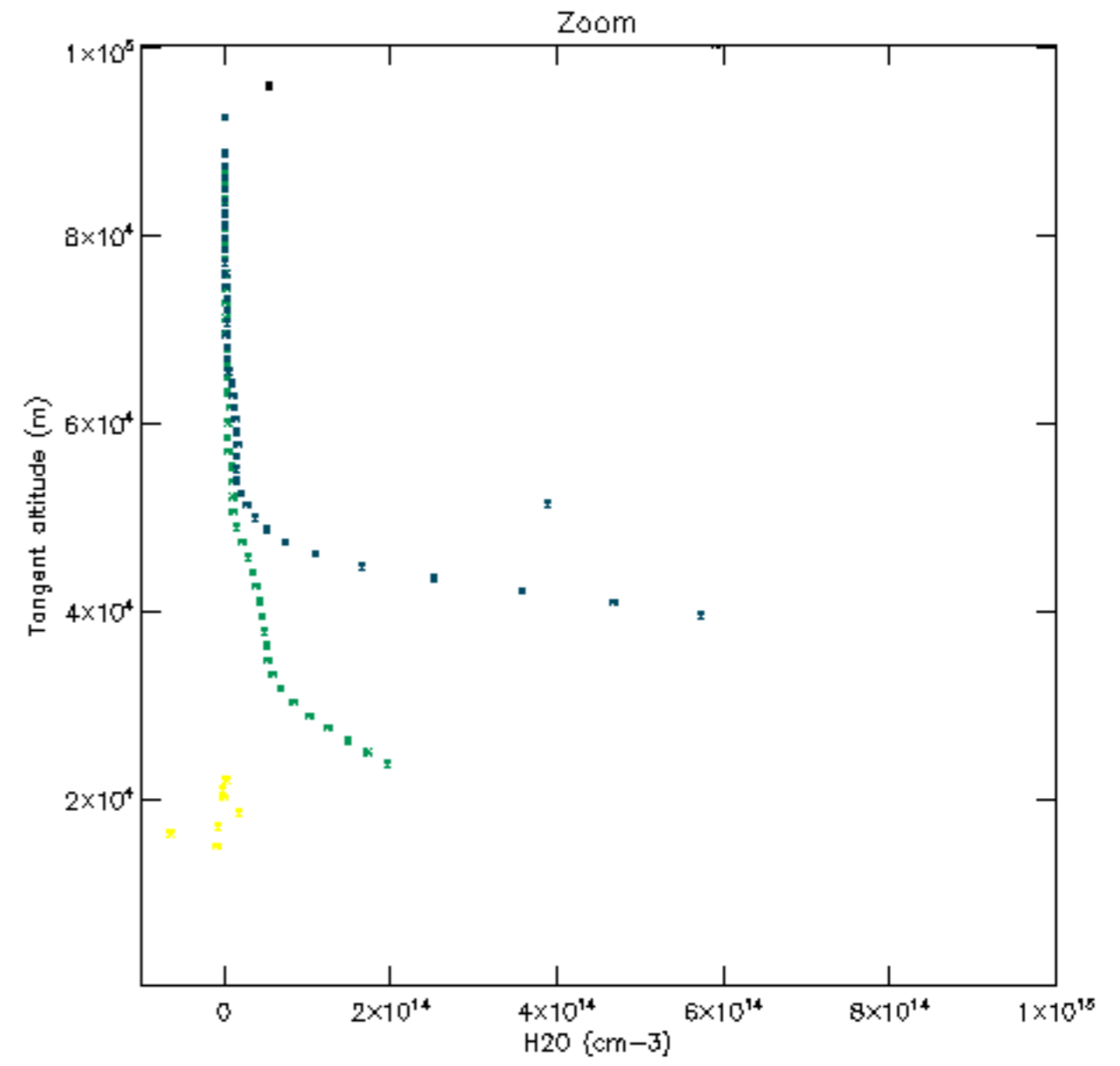
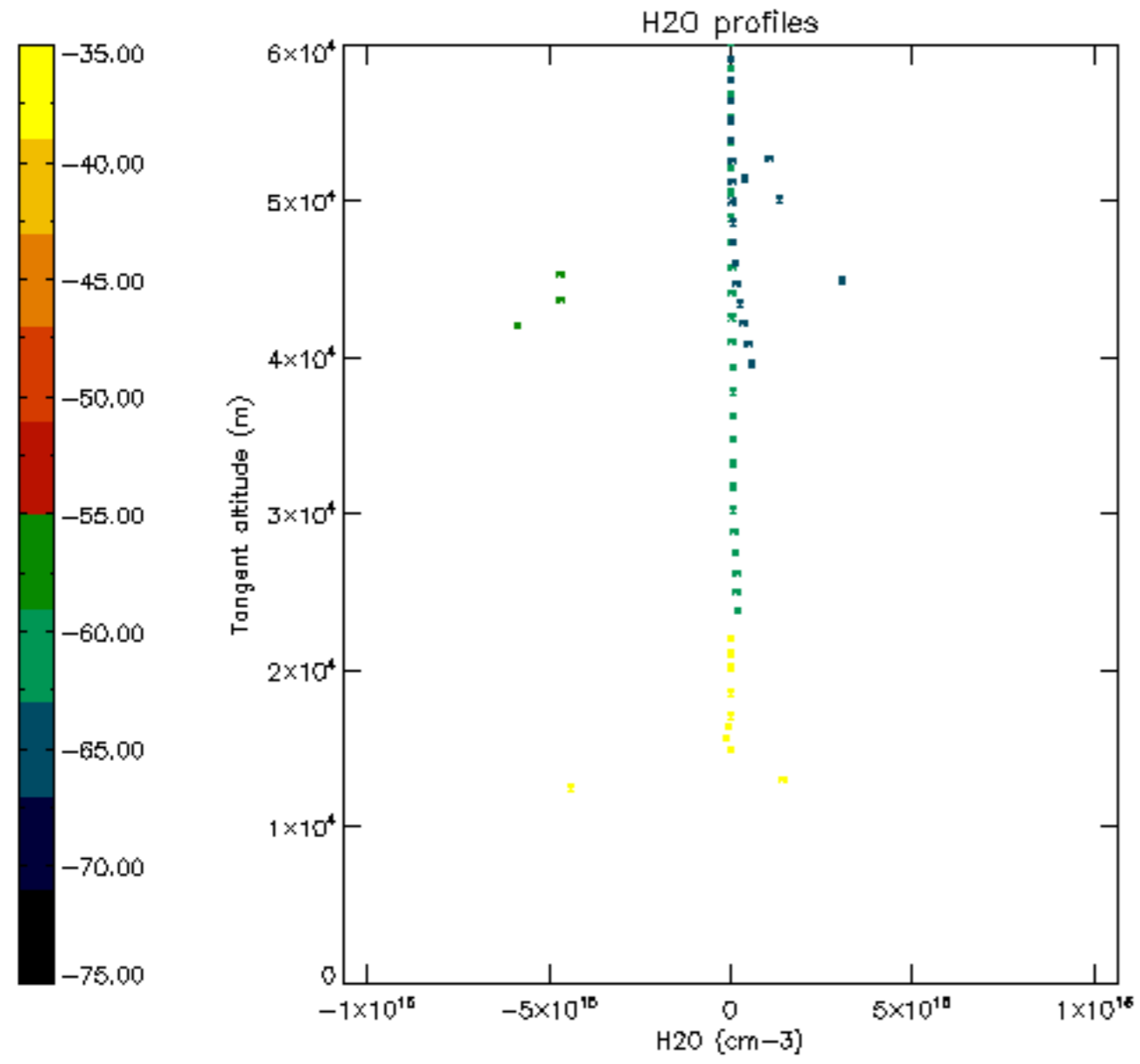


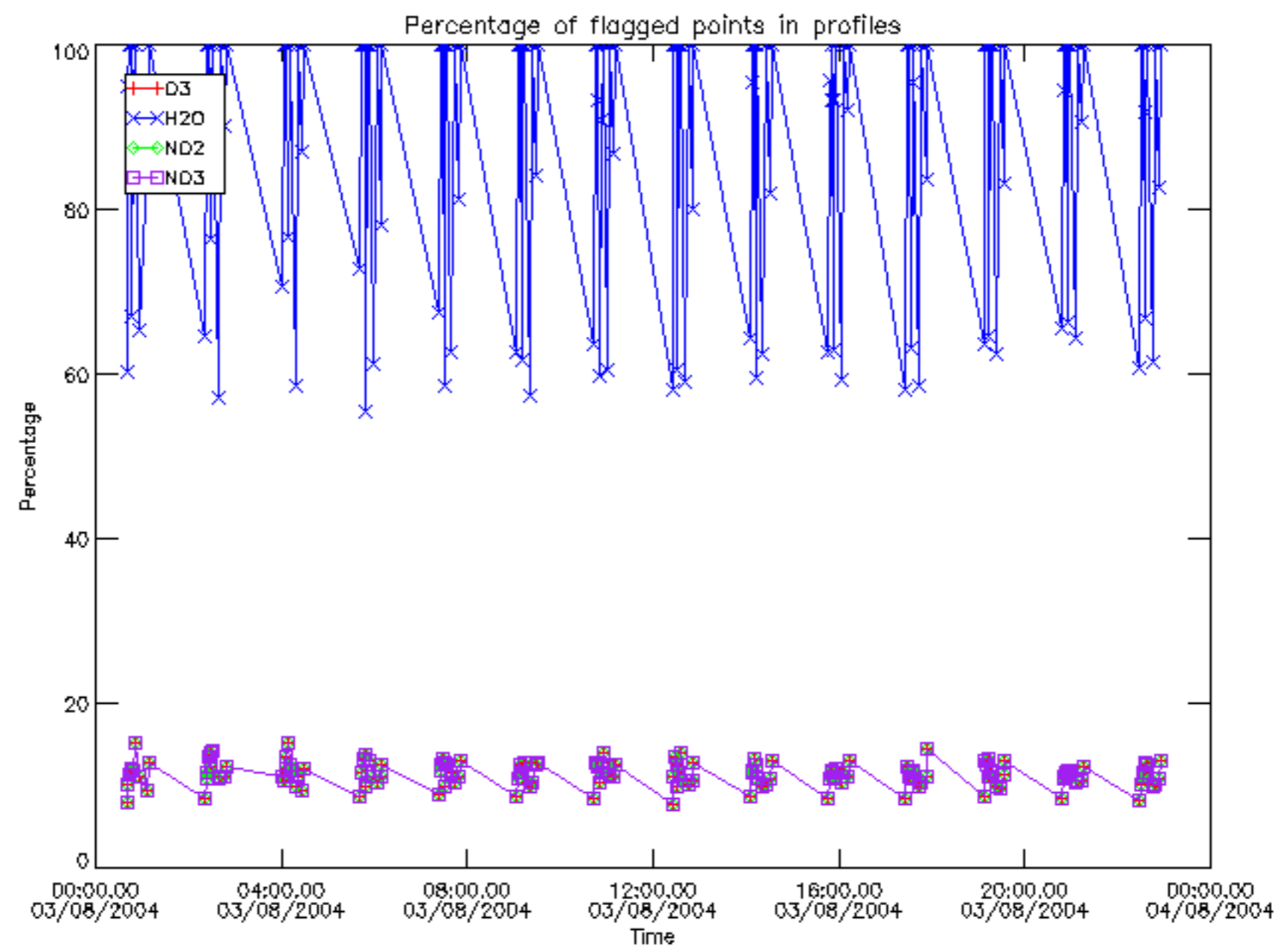




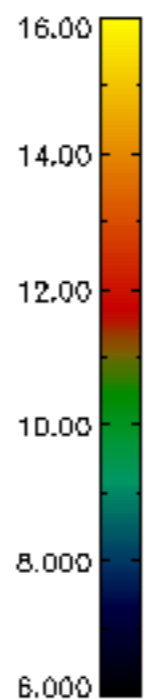
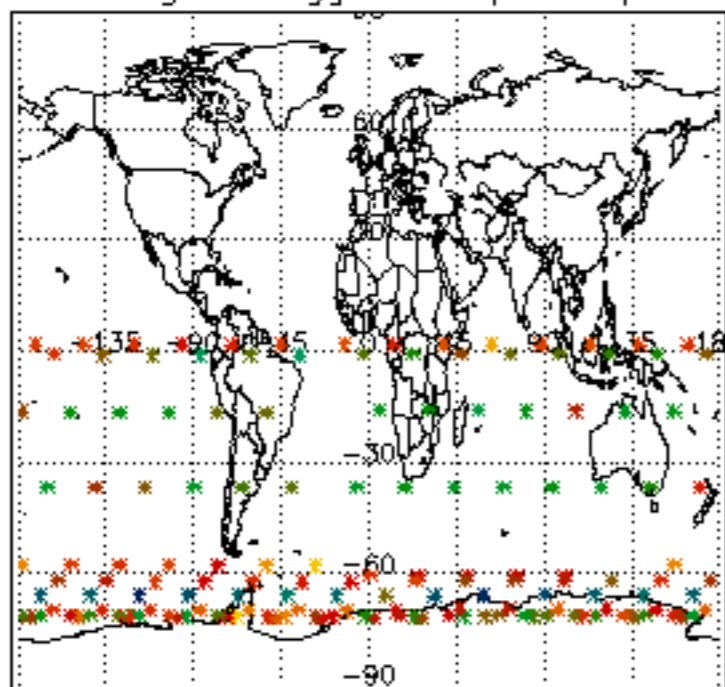




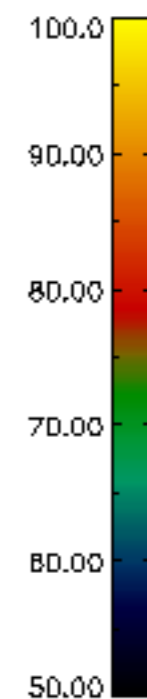
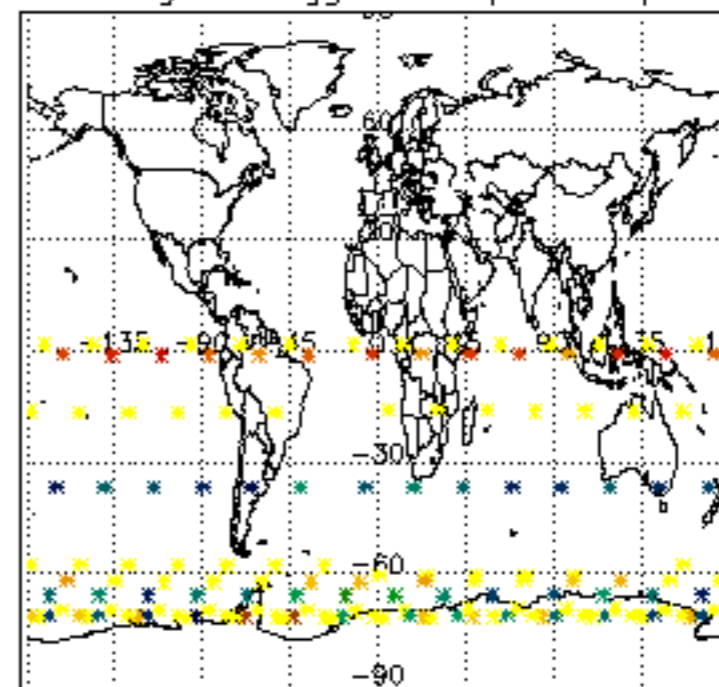




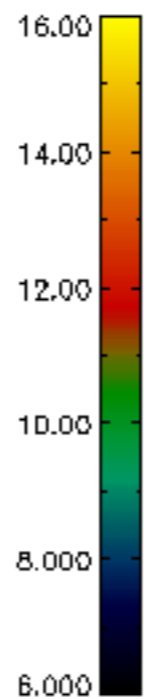
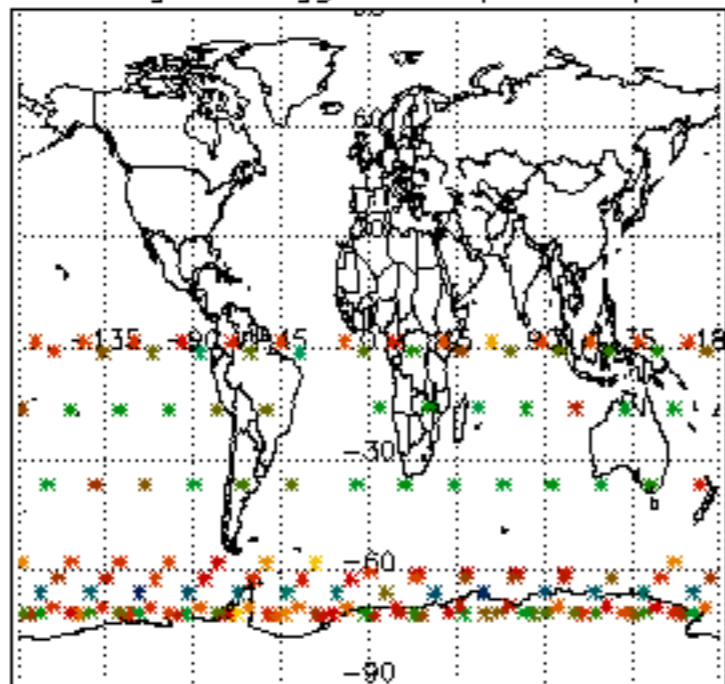
Percentage of flagged data per D3 profile



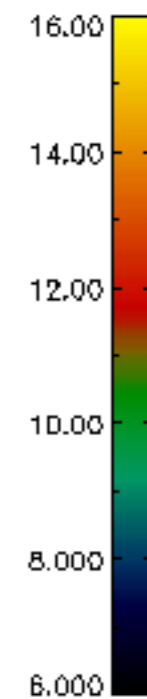
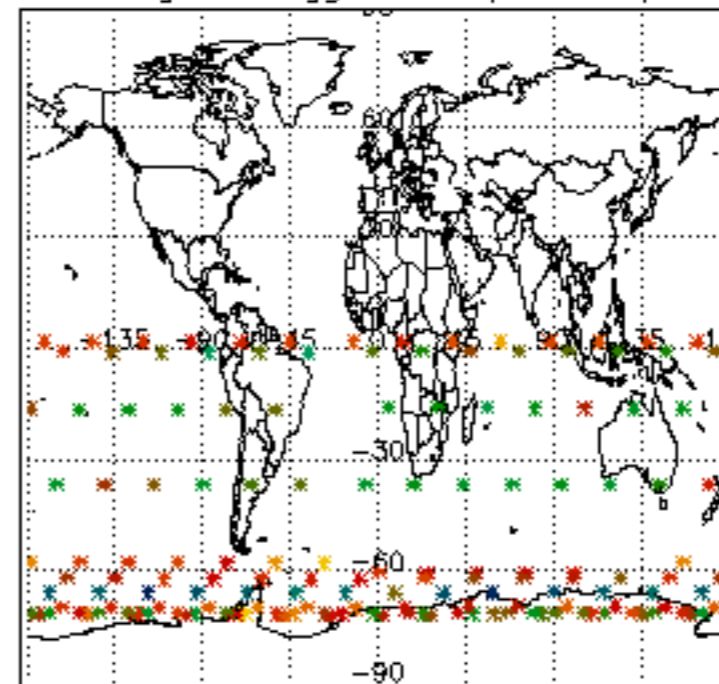
Percentage of flagged data per H2O profile

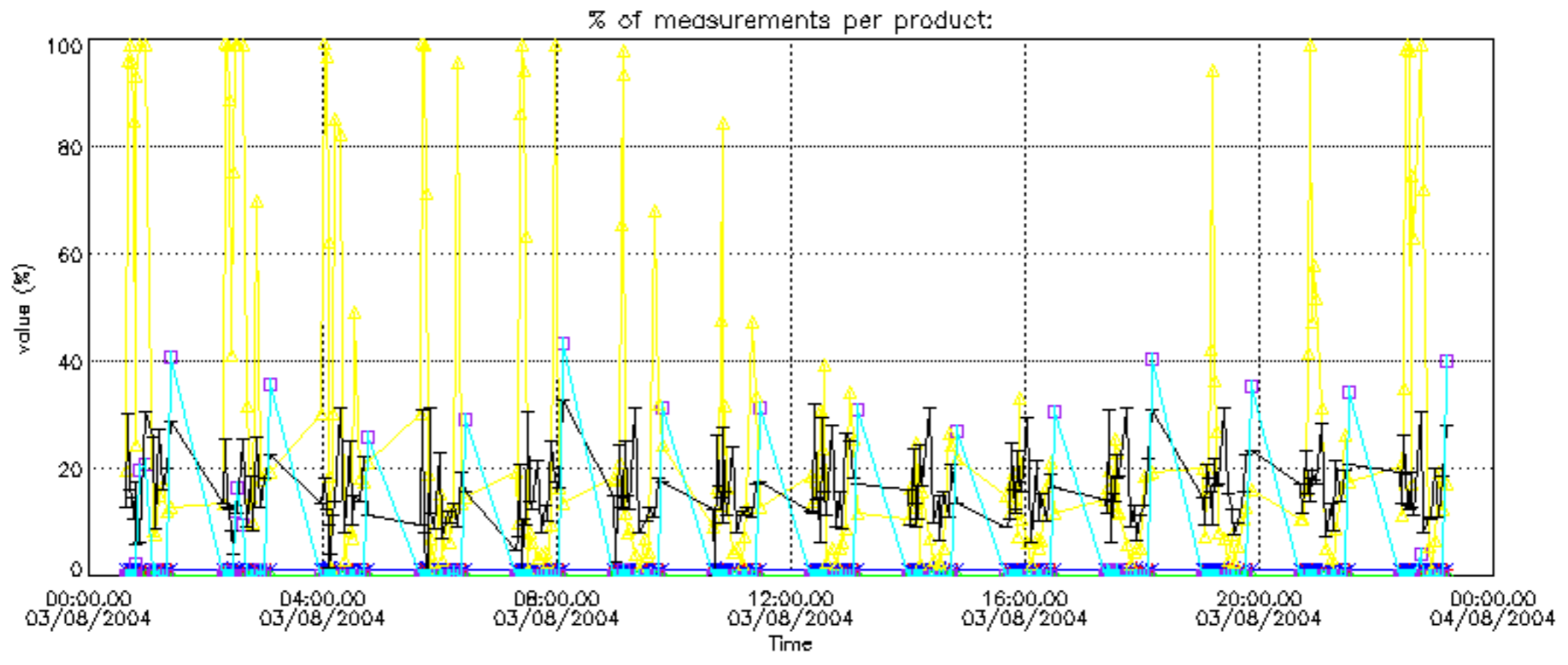


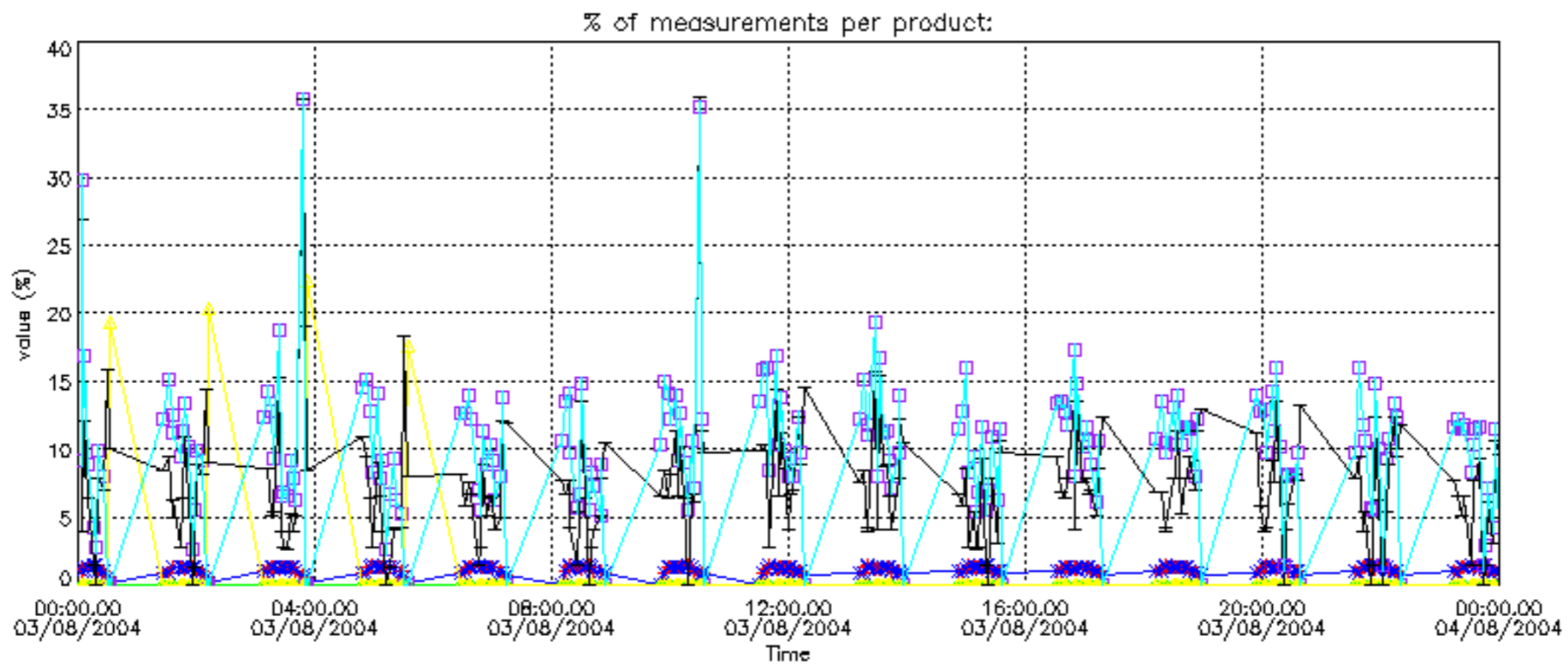
Percentage of flagged data per NO2 profile



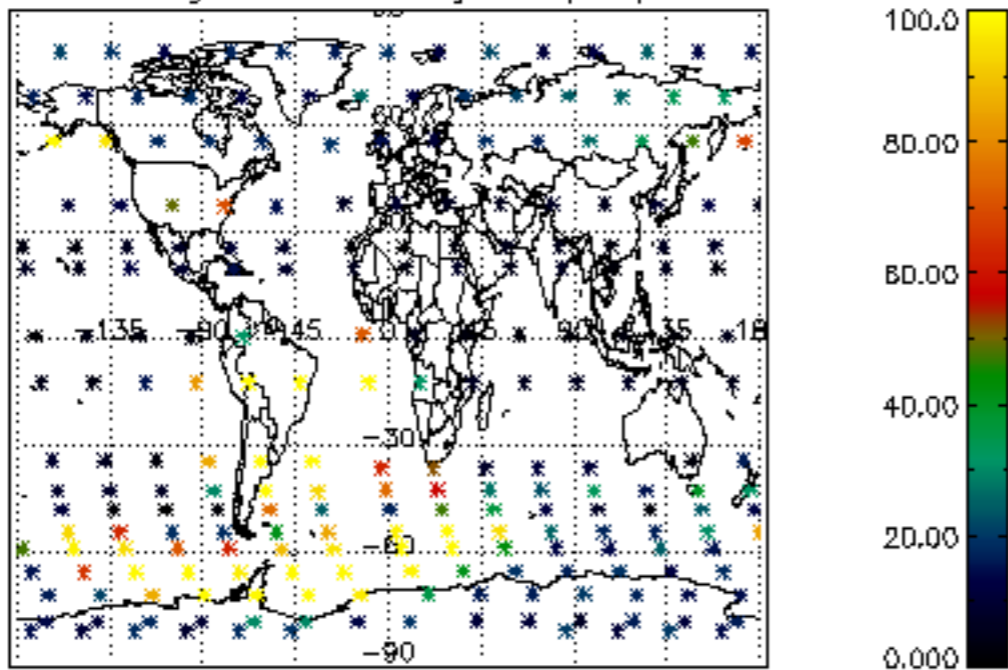
Percentage of flagged data per NO3 profile



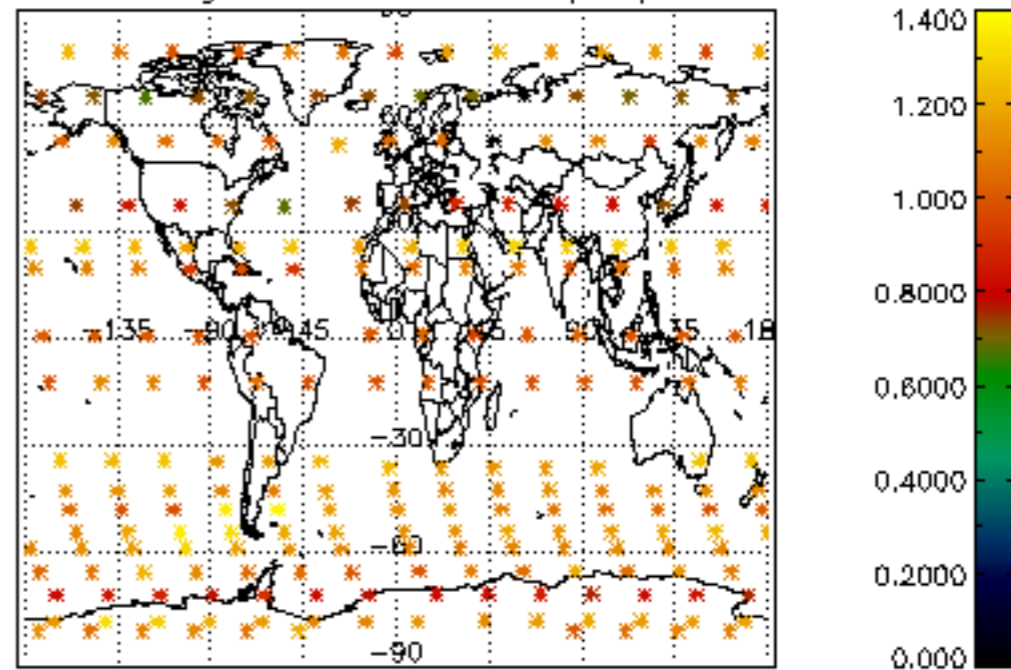




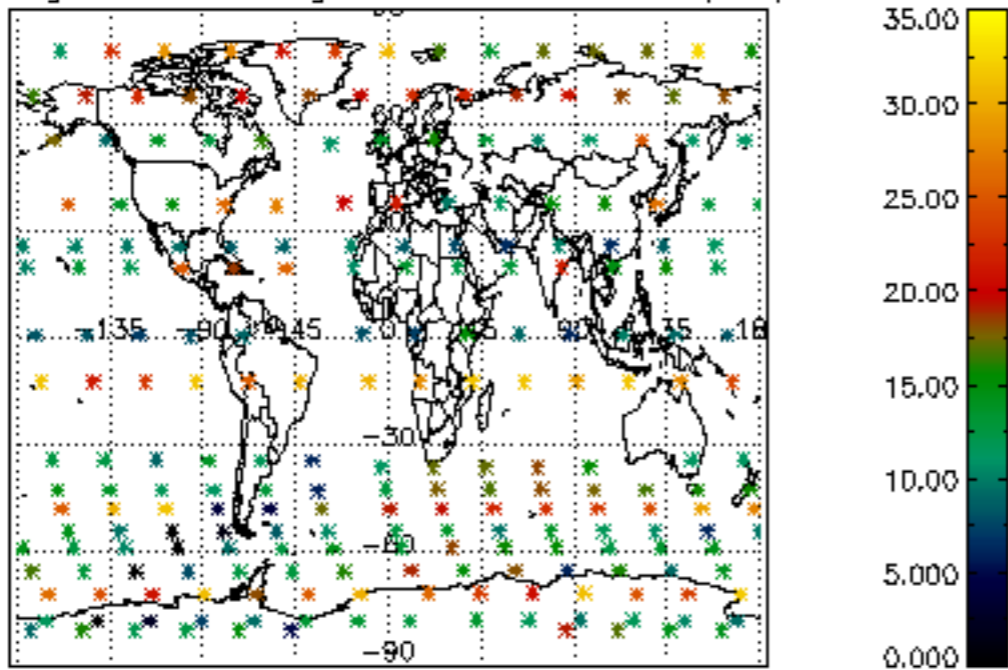
Percentage of cosmic ray hits per profile



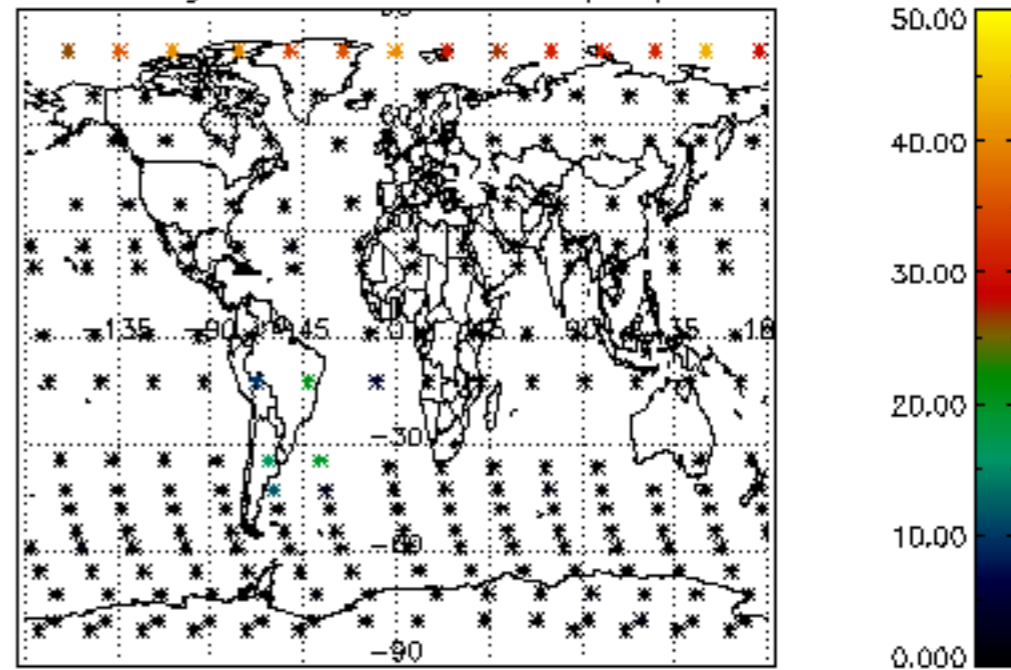
Percentage of datation errors per profile



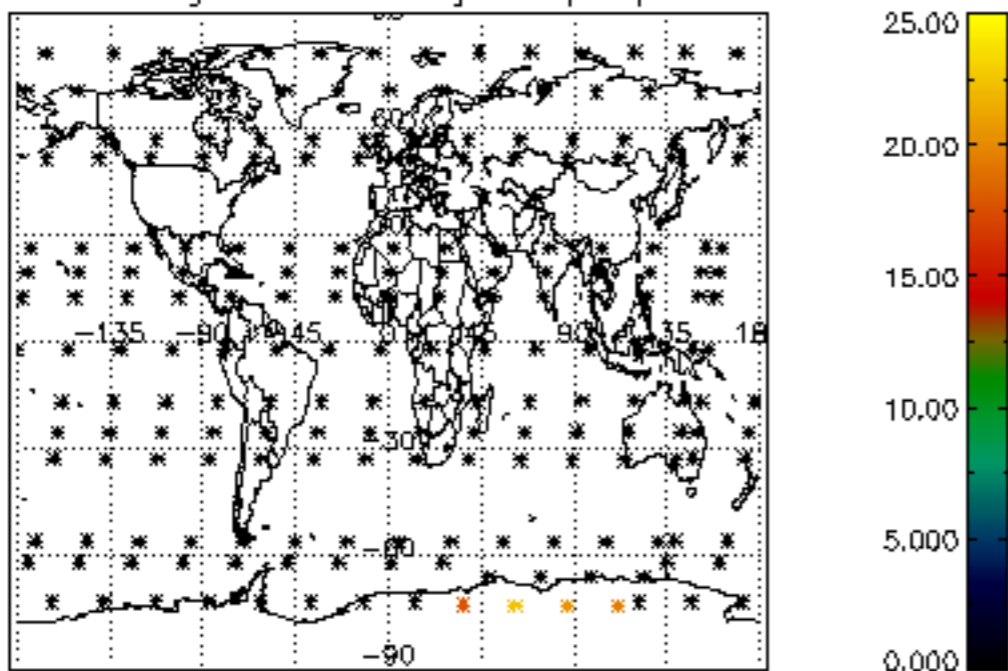
Percentage of star falling outside central band per profile



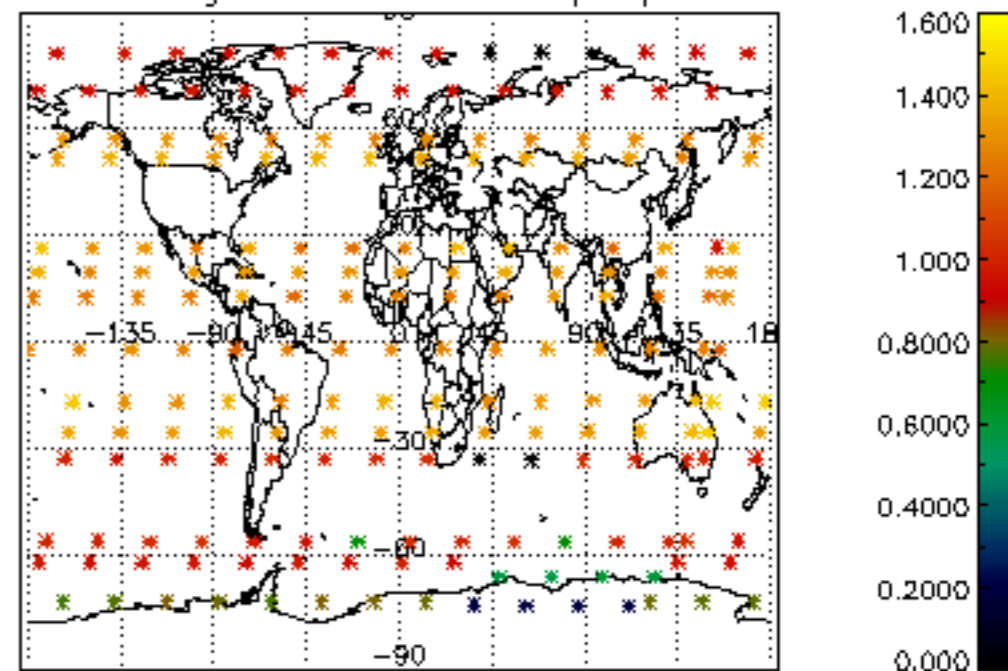
Percentage of saturation errors per profile



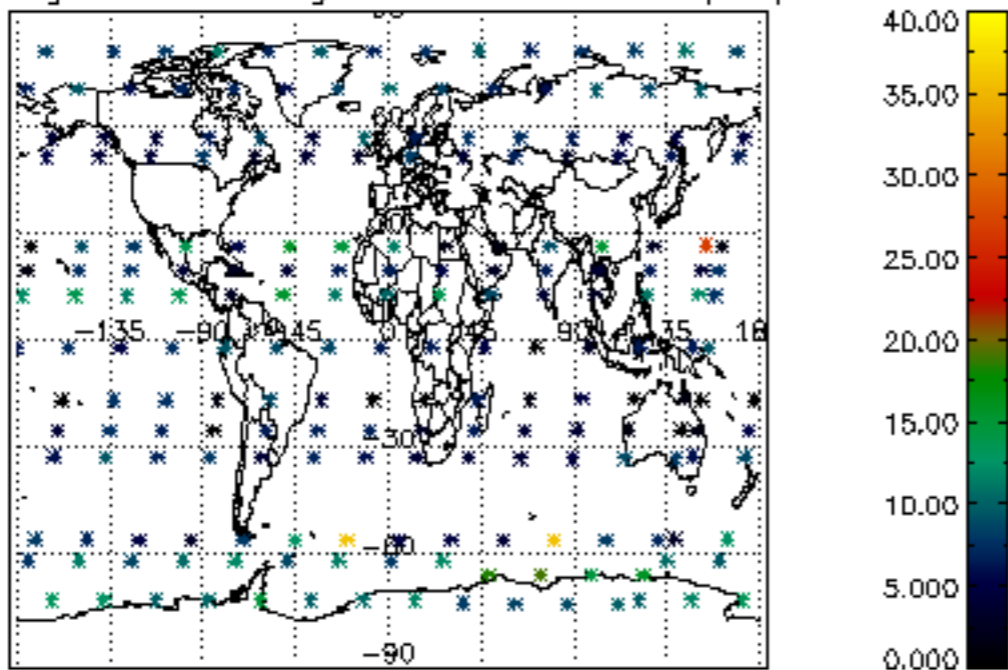
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

