

GOMOS Level 2 Daily Report

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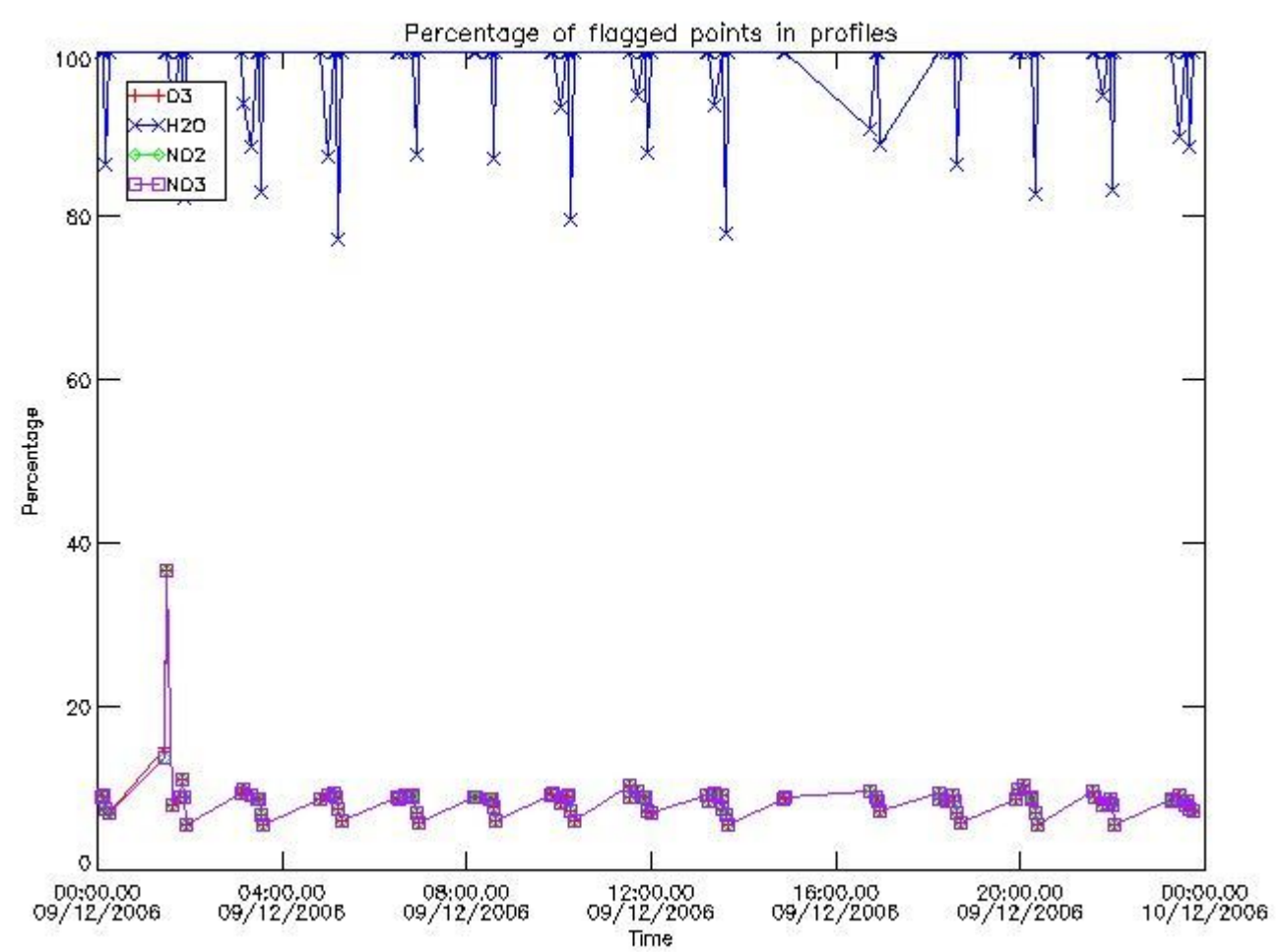
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279	GOM_NL__2PRFIN20061209_220824_000000412053_00373_24976_4827.N1	09-DEC-2006 22:08:24	Straylight	41.000	101	11Alp Lep	2.5820	7000.0	82	24976	No
280	GOM_NL__2PRFIN20061209_221139_000000442053_00373_24976_4828.N1	09-DEC-2006 22:11:39	Straylight	44.000	7	19Bet Ori	0.10000	14000.	88	24976	No
281	GOM_NL__2PRFIN20061209_221410_000000462053_00373_24976_4829.N1	09-DEC-2006 22:14:10	Straylight	46.000	30	46Eps Ori	1.6940	30000.	92	24976	No
282	GOM_NL__2PRFIN20061209_221638_000000462053_00373_24976_4830.N1	09-DEC-2006 22:16:38	Twilight	45.500	27	24Gam Ori	1.6360	26000.	91	24976	No
283	GOM_NL__2PRFIN20061209_221911_000000482053_00373_24976_4831.N1	09-DEC-2006 22:19:11	Twilight	47.500	13	87Alp Tau	0.86700	3800.0	95	24976	No
284	GOM_NL__2PRFIN20061209_222435_000000372053_00373_24976_4832.N1	09-DEC-2006 22:24:35	Bright	36.500	114	3lot Aur	2.6930	4600.0	73	24976	No
285	GOM_NL__2PRFIN20061209_222849_000000382053_00373_24976_4833.N1	09-DEC-2006 22:28:49	Bright	38.000	6	13Alp Aur	0.080000	3400.0	76	24976	No
286	GOM_NL__2PRFIN20061209_223005_000000392053_00373_24976_4834.N1	09-DEC-2006 22:30:05	Bright	39.000	42	34Bet Aur	1.9000	10200.	78	24976	No
287	GOM_NL__2PRFIN20061209_224524_000000382053_00373_24976_4835.N1	09-DEC-2006 22:45:24	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	24976	No
288	GOM_NL__2PRFIN20061209_224910_000000362053_00373_24976_4836.N1	09-DEC-2006 22:49:10	Bright	35.500	32	77Eps UMa	1.7630	11000.	71	24976	No
289	GOM_NL__2PRFIN20061209_225131_000000322053_00373_24976_4837.N1	09-DEC-2006 22:51:31	Bright	32.000	39	85Eta UMa	1.8540	24000.	64	24976	No
290	GOM_NL__2PRFIN20061209_225504_000000562053_00373_24976_4838.N1	09-DEC-2006 22:55:04	Bright	56.000	152	12Alp2CVn	2.8900	11000.	112	24976	No
291	GOM_NL__2PRFIN20061209_230054_000000322053_00373_24976_4839.N1	09-DEC-2006 23:00:54	Bright	32.000	111	8Eta Boo	2.6800	6000.0	64	24976	No
292	GOM_NL__2PRFIN20061209_230426_000000402053_00373_24976_4840.N1	09-DEC-2006 23:04:26	Bright	40.000	138	47Eps Vir	2.8280	4700.0	80	24976	No
293	GOM_NL__2PRFIN20061209_231019_000000472053_00373_24976_4841.N1	09-DEC-2006 23:10:19	Bright	47.000	15	67Alp Vir	0.97600	28000.	94	24976	No
294	GOM_NL__2PRFIN20061209_231346_000000392053_00373_24976_4842.N1	09-DEC-2006 23:13:46	Twilight	39.000	169	46Gam Hya	2.9910	4700.0	78	24976	No
295	GOM_NL__2PRFIN20061209_231529_000000472053_00373_24976_4843.N1	09-DEC-2006 23:15:29	Dark	47.000	100	4Gam Crv	2.5800	13100.	94	24976	No
296	GOM_NL__2PRFIN20061209_231705_000000492053_00373_24976_4844.N1	09-DEC-2006 23:17:05	Dark	49.000	171	2Eps Crv	3.0010	4250.0	98	24976	No
297	GOM_NL__2PRFIN20061209_232617_000000392053_00374_24977_4844.N1	09-DEC-2006 23:26:17	Dark	39.000	113	Mu Vel	2.6920	5000.0	78	24977	No
298	GOM_NL__2PRFIN20061209_233457_000000452053_00374_24977_4845.N1	09-DEC-2006 23:34:57	Dark	45.000	34	Gam2Vel	1.7930	23000.	90	24977	No
299	GOM_NL__2PRFIN20061209_233659_000000482053_00374_24977_4846.N1	09-DEC-2006 23:36:59	Dark	48.000	70	Zet Pup	2.2460	39000.	96	24977	No
300	GOM_NL__2PRFIN20061209_234001_000000482053_00374_24977_4847.N1	09-DEC-2006 23:40:01	Dark	48.000	117	Pi Pup	2.7060	3800.0	96	24977	No
301	GOM_NL__2PRFIN20061209_234345_000000362053_00374_24977_4848.N1	09-DEC-2006 23:43:45	Dark	36.000	108	Alp Col	2.6520	15200.	72	24977	No
302	GOM_NL__2PRFIN20061209_234900_000000412053_00374_24977_4849.N1	09-DEC-2006 23:49:00	Straylight	41.000	101	11Alp Lep	2.5820	7000.0	82	24977	No
303	GOM_NL__2PRFIN20061209_235215_000000442053_00374_24977_4850.N1	09-DEC-2006 23:52:15	Straylight	44.000	7	19Bet Ori	0.10000	14000.	88	24977	No
304	GOM_NL__2PRFIN20061209_235446_000000452053_00374_24977_4851.N1	09-DEC-2006 23:54:46	Straylight	45.000	30	46Eps Ori	1.6940	30000.	90	24977	No
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3. Quality information per product

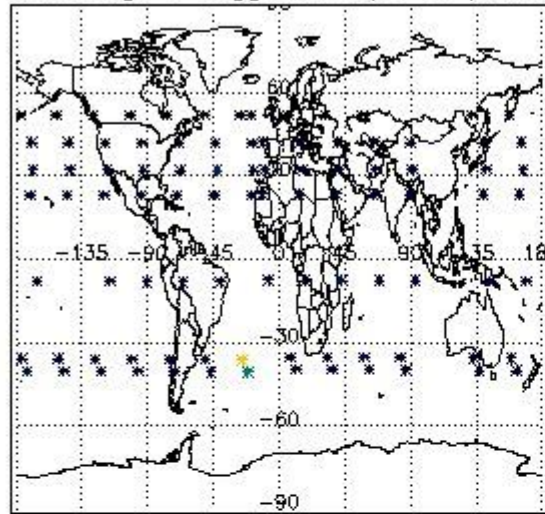
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

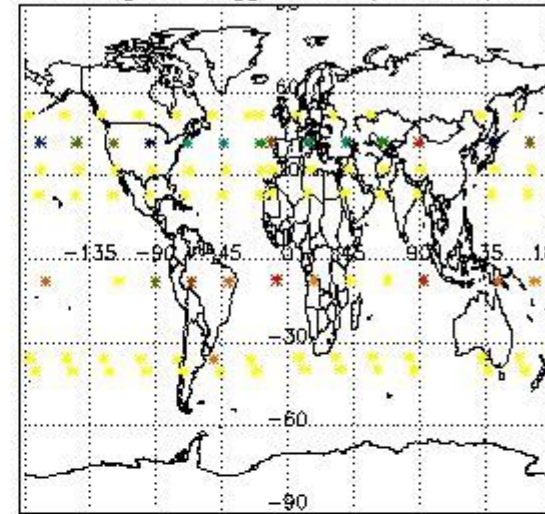


3.2 Plot quality information per product (world map)

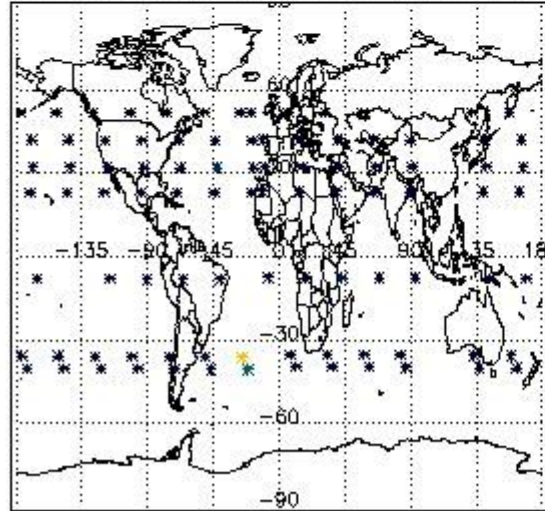
Percentage of flagged data per O3 profile



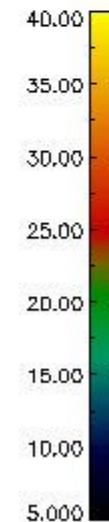
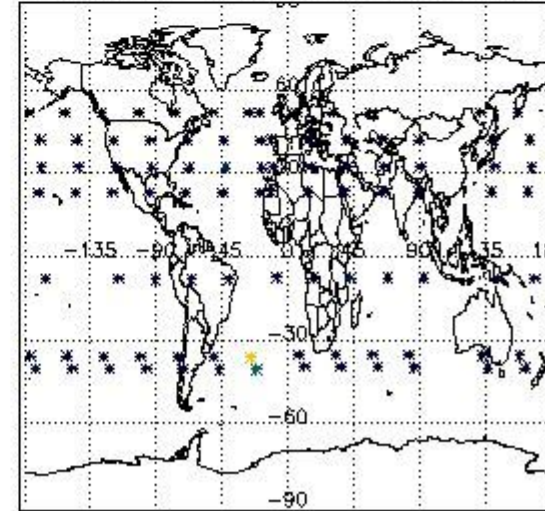
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

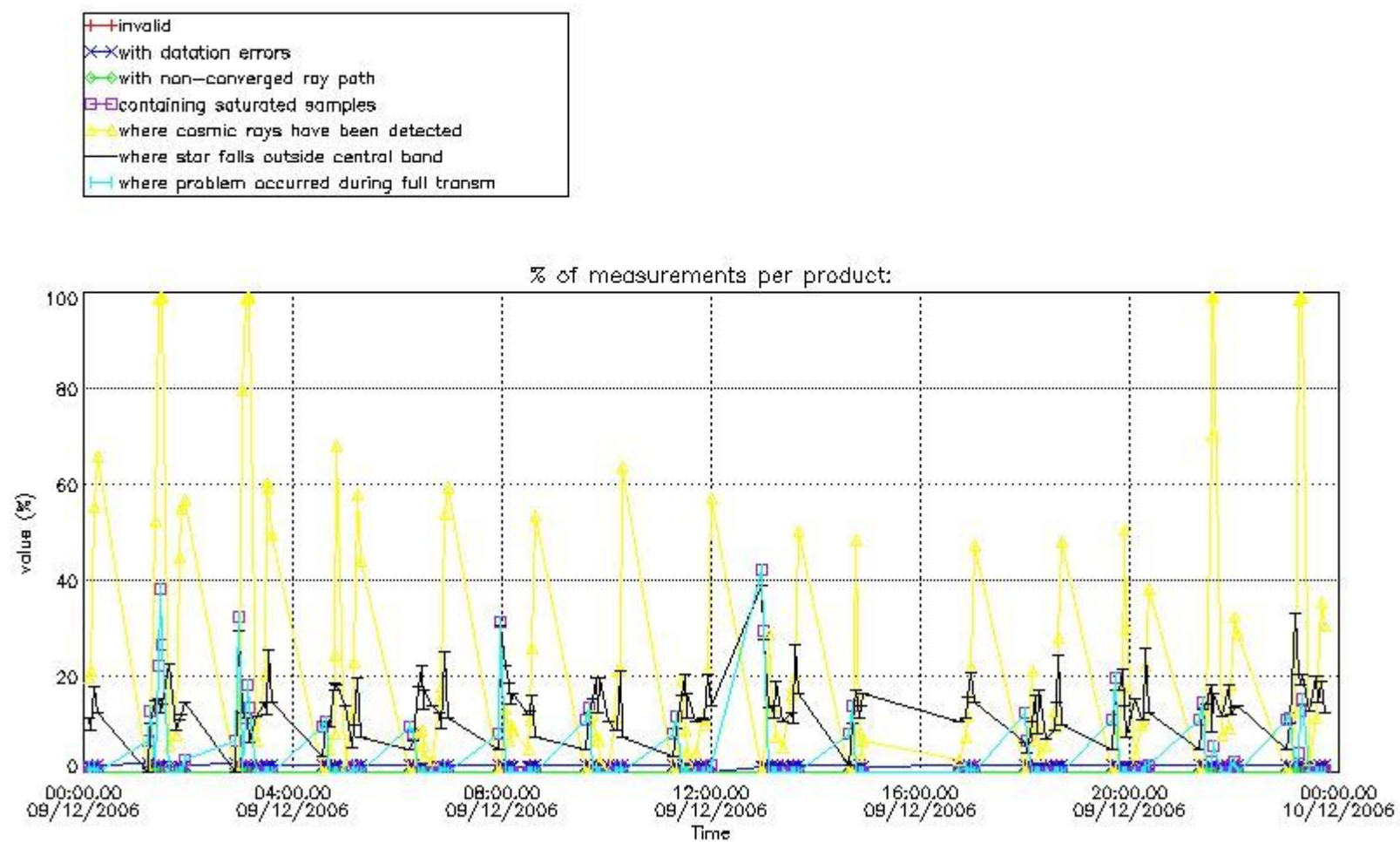


4. Level 1 quality information per product

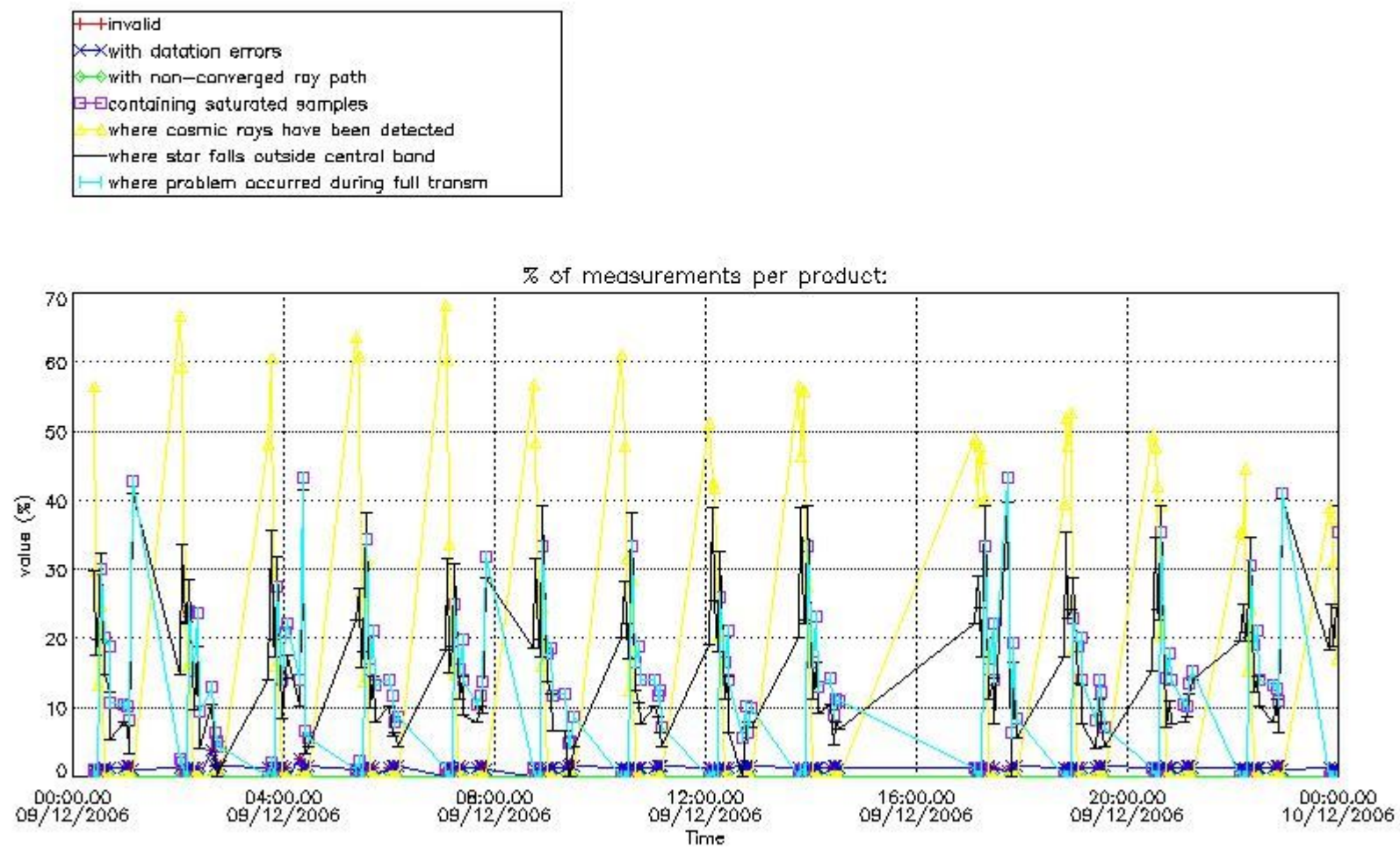
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

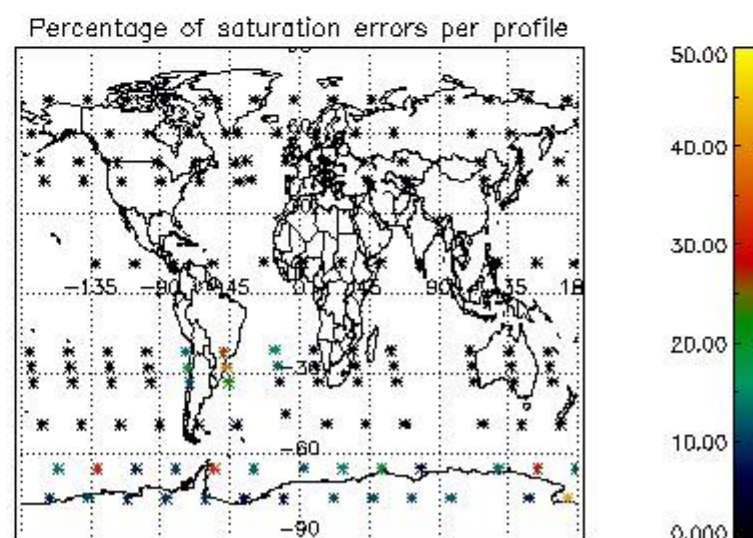
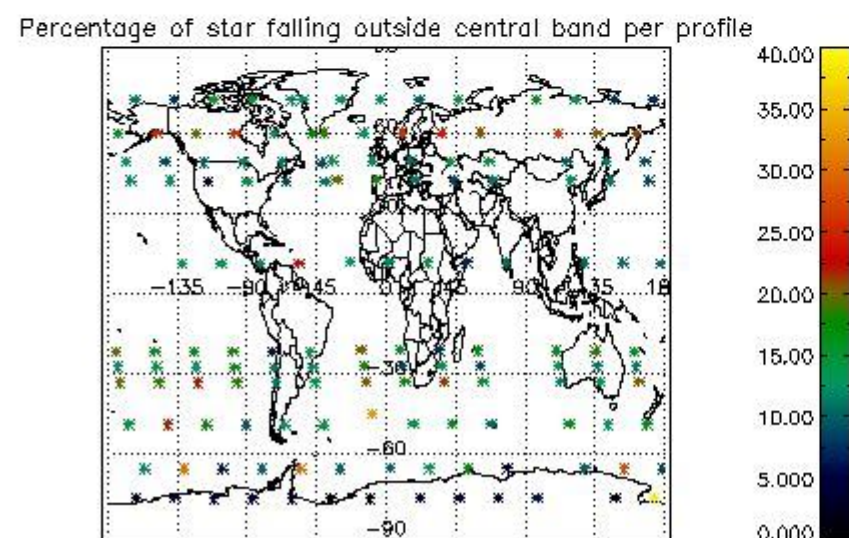
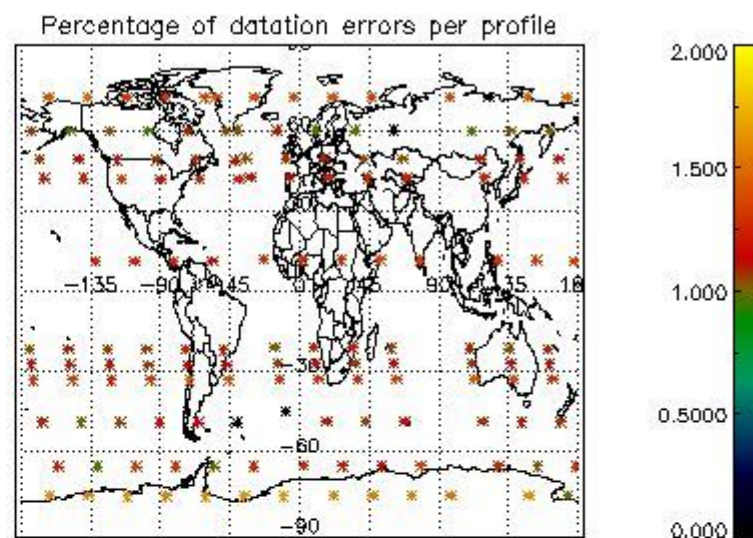
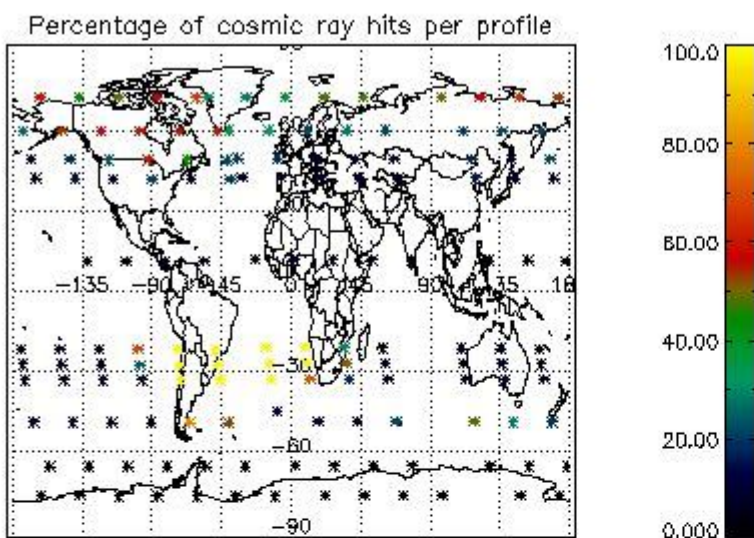


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

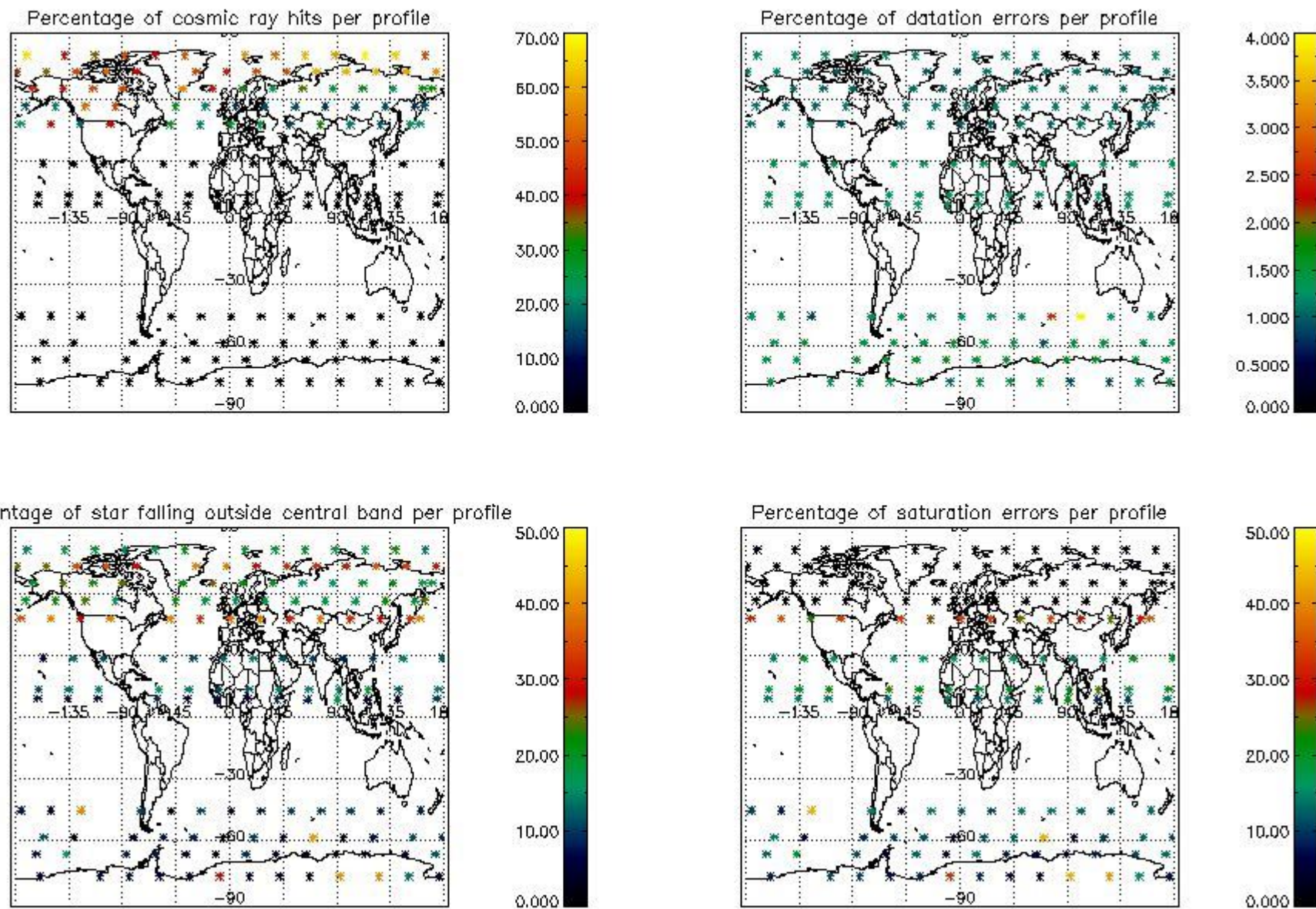


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

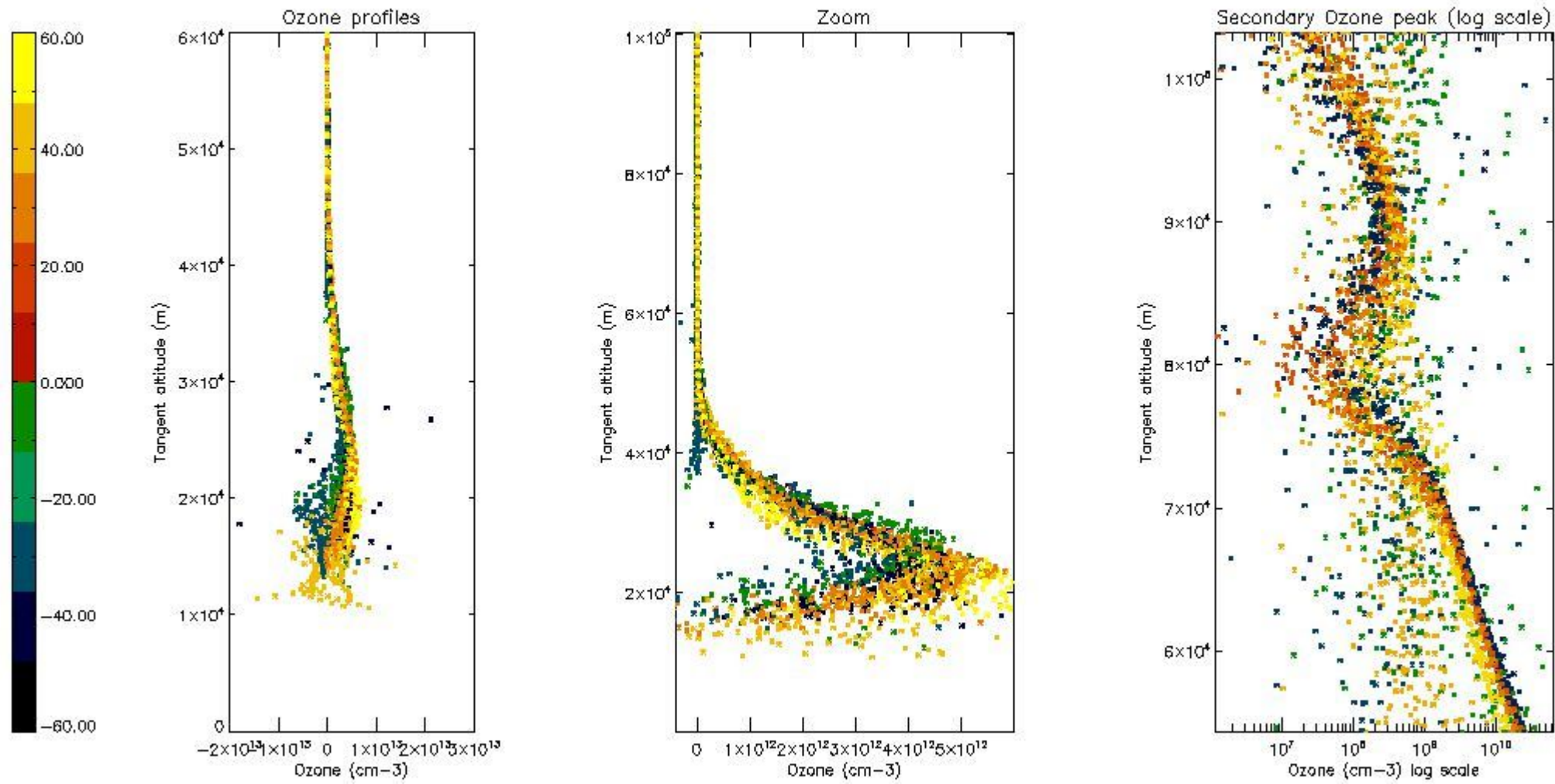
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	17

STD < 10	13
STD < 5	9

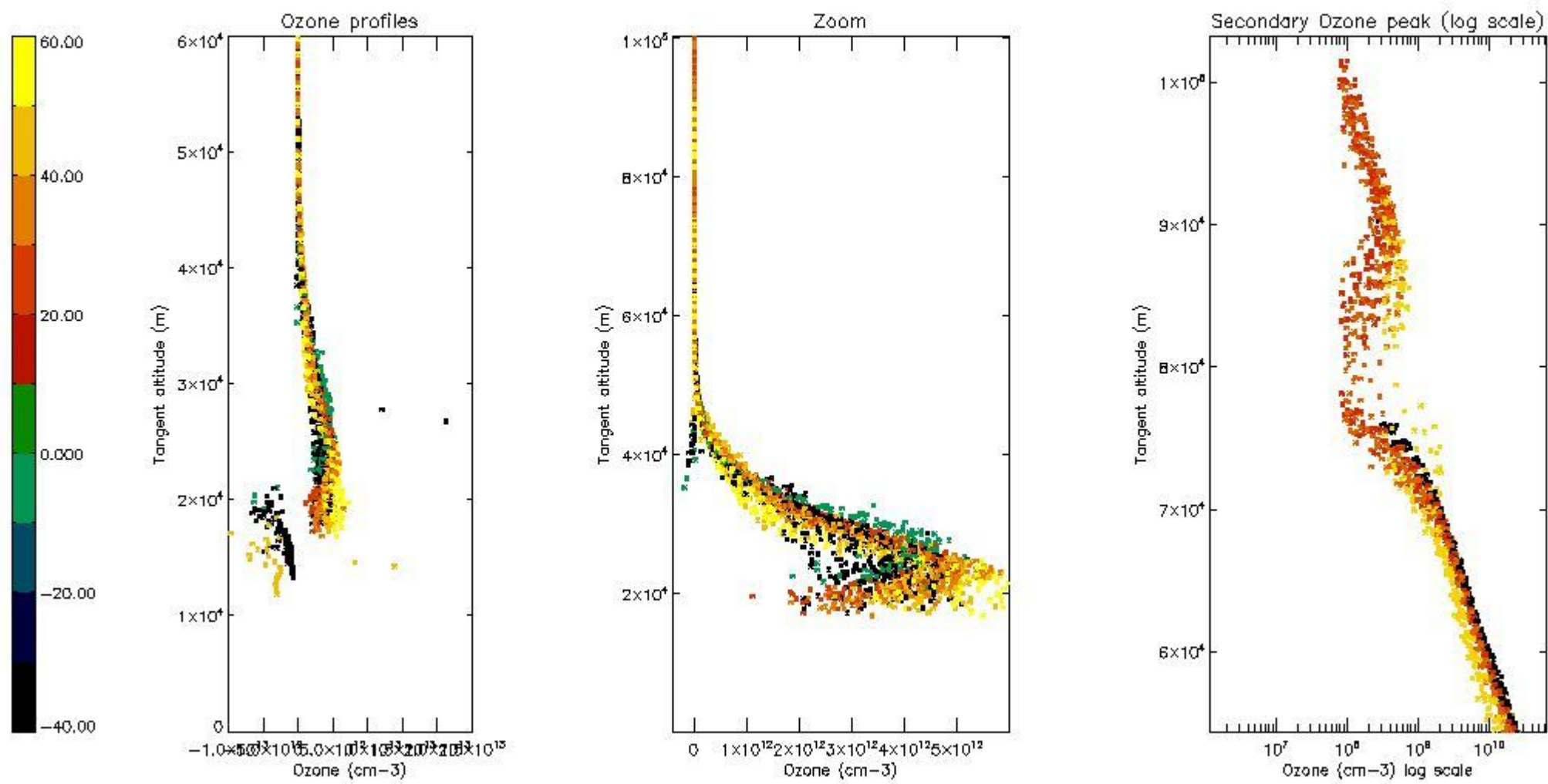
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



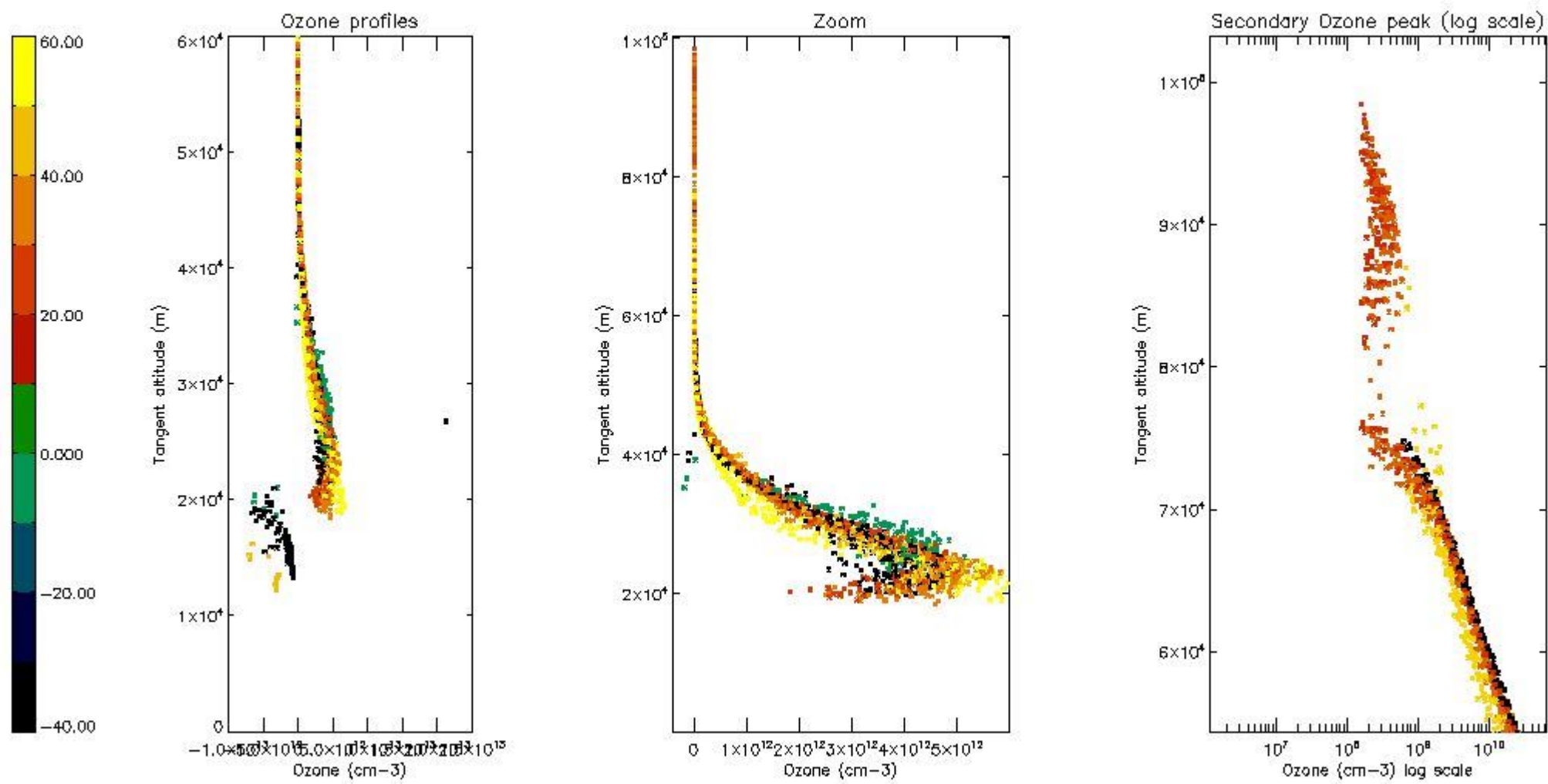
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



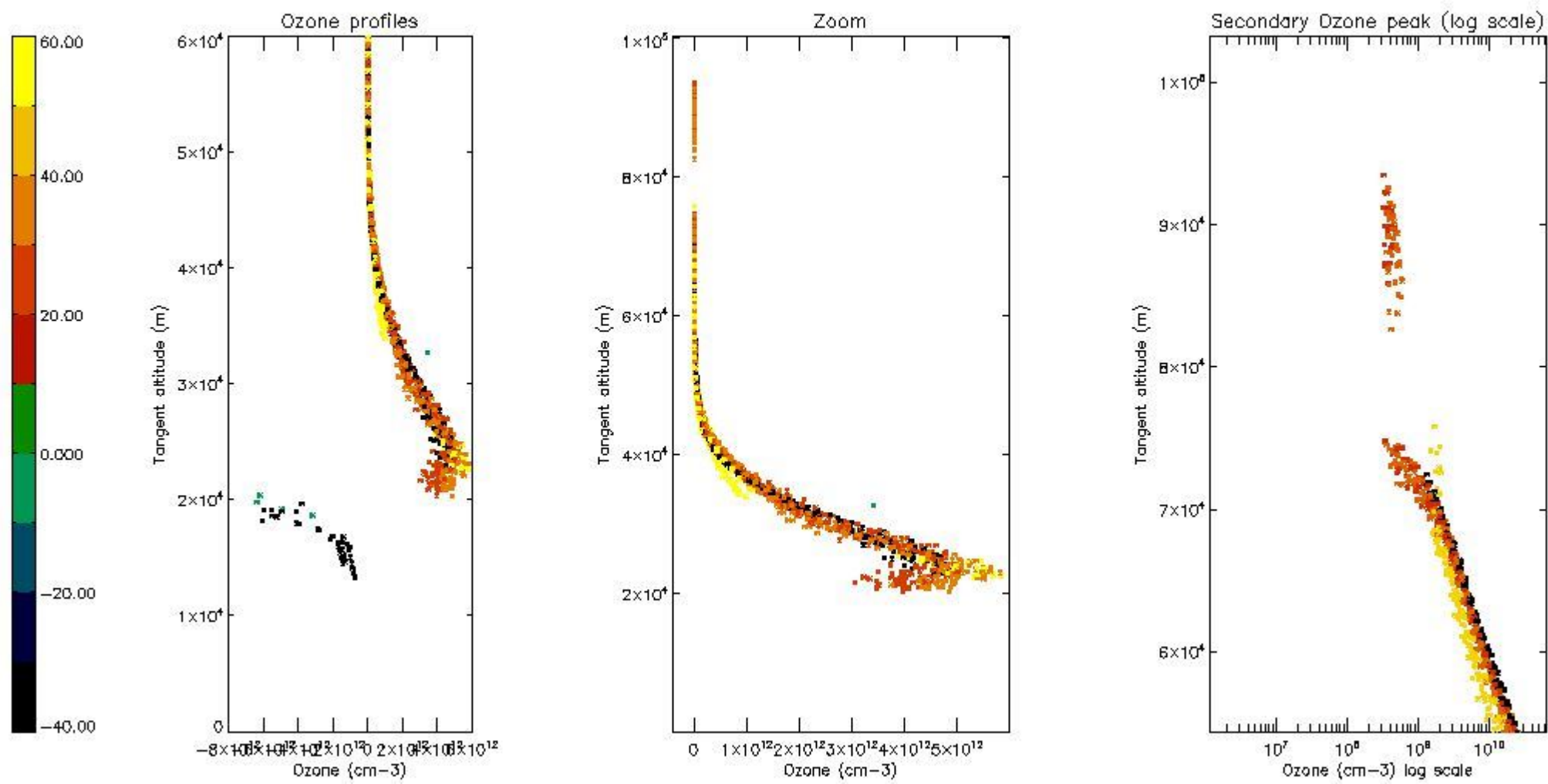
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



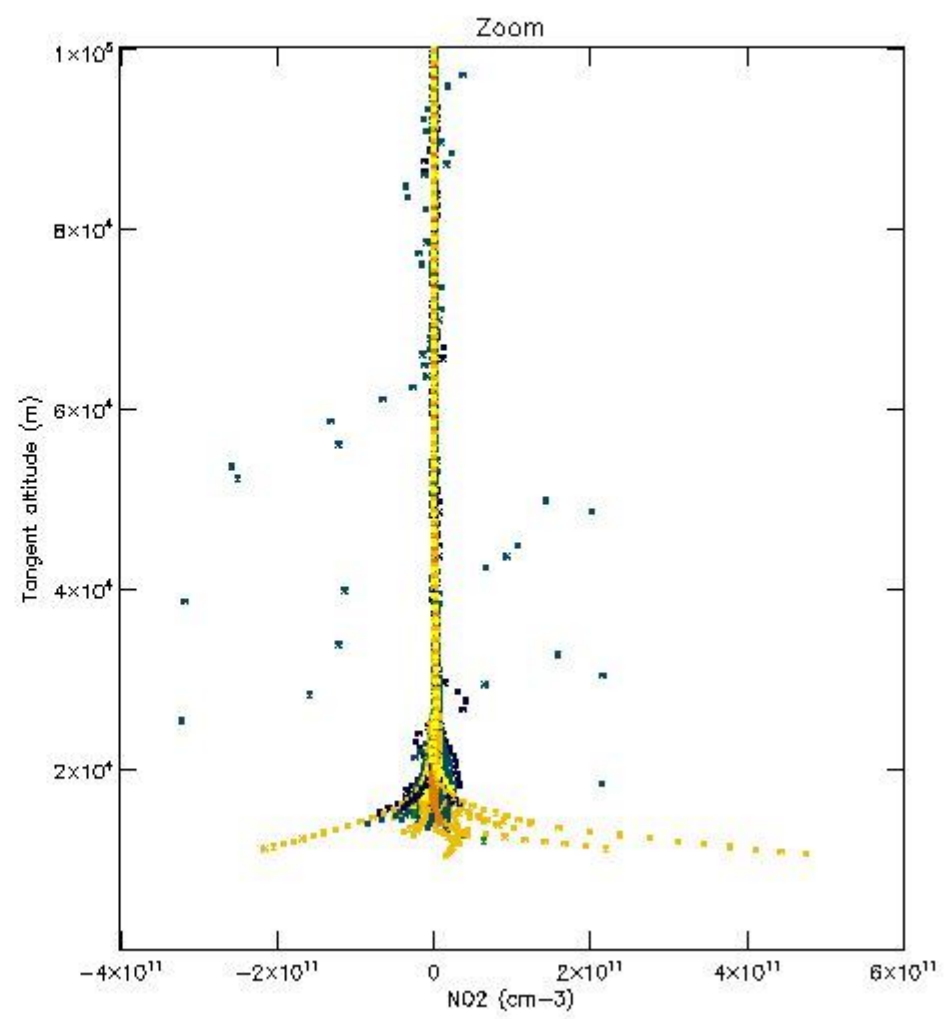
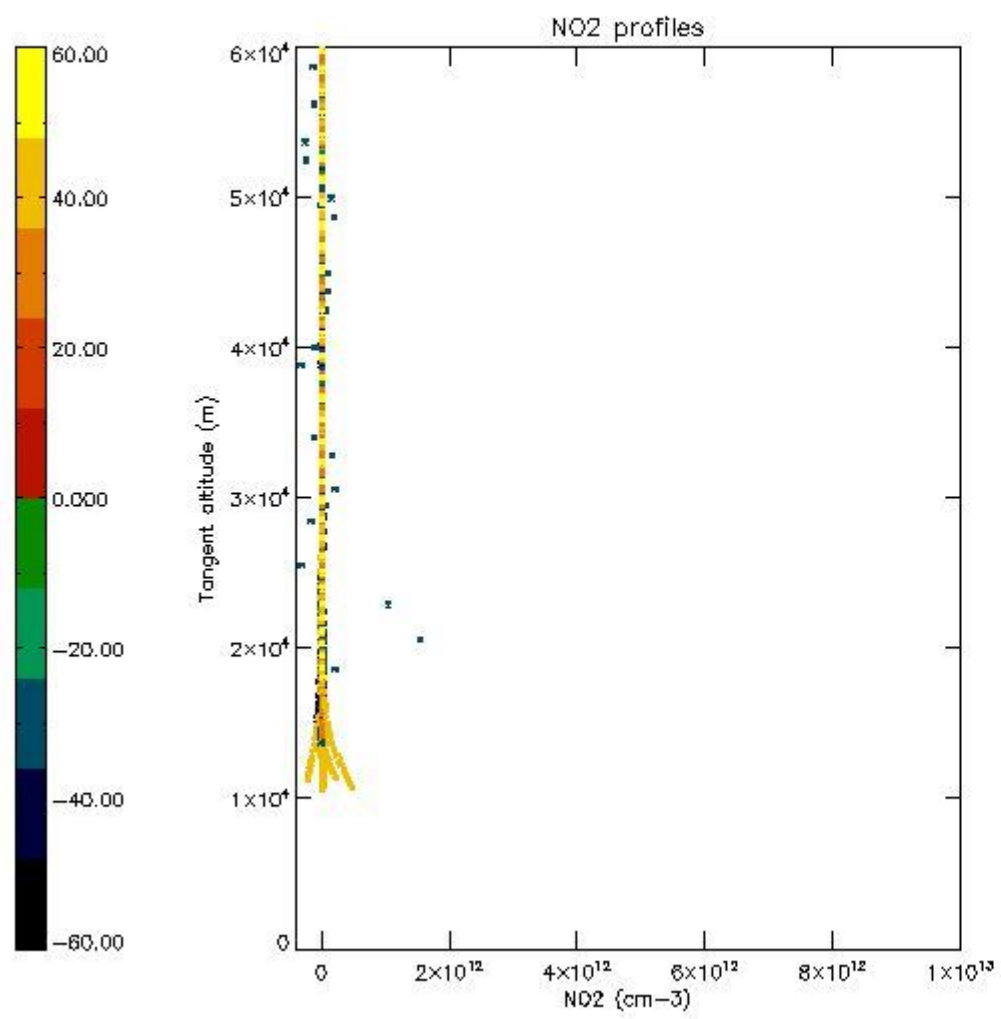
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



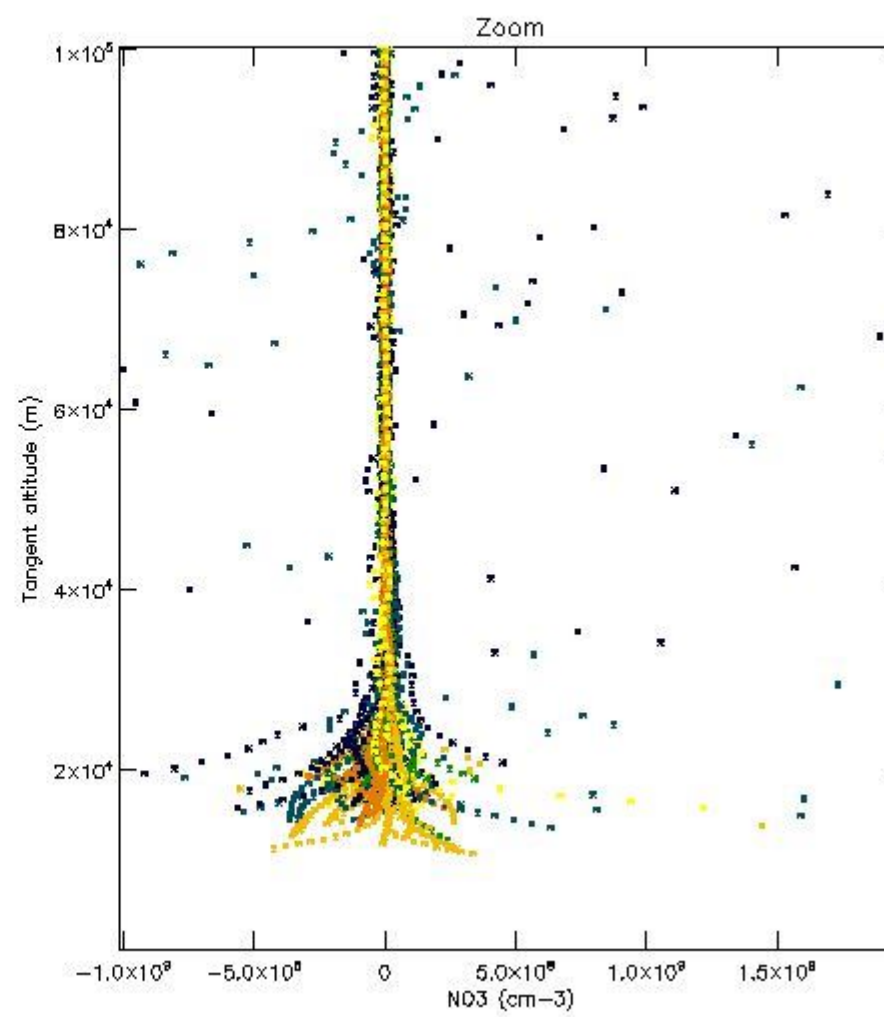
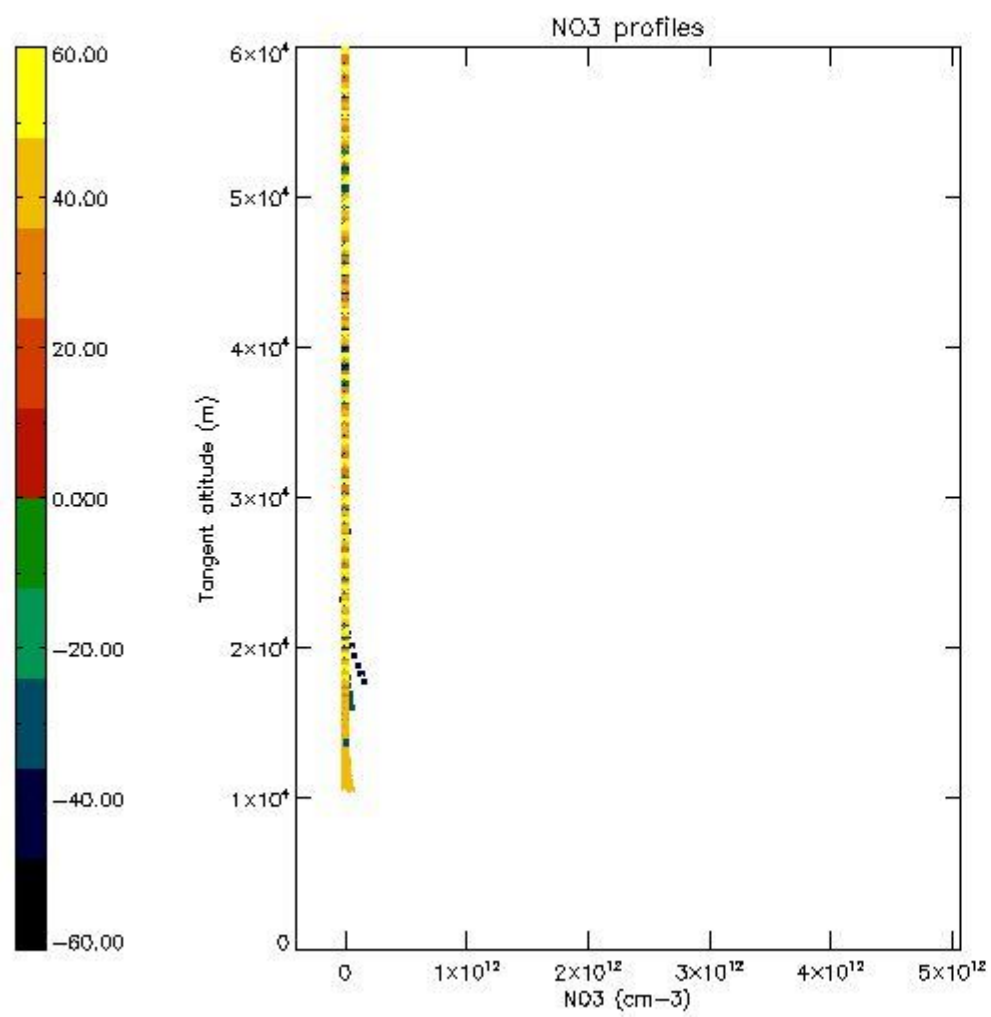
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



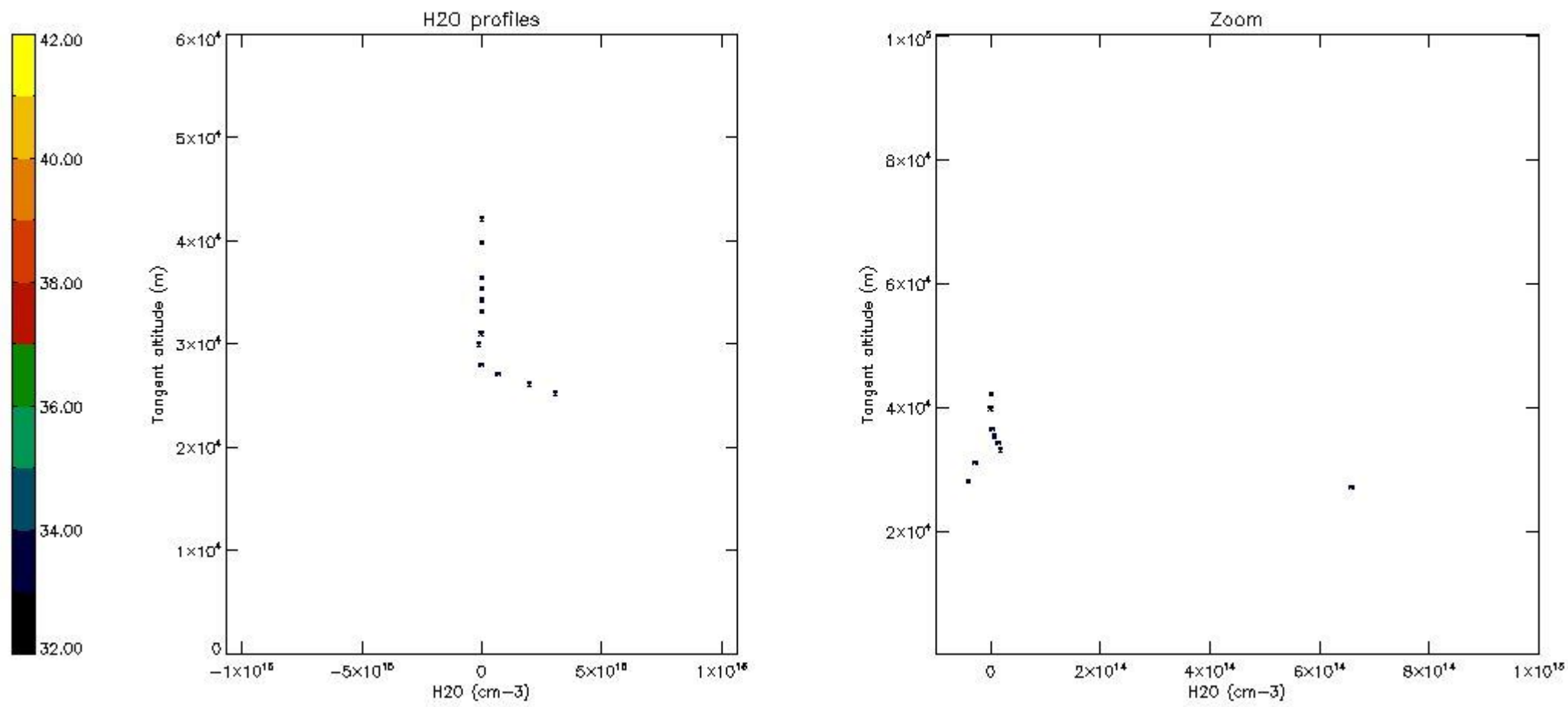
5.7 Plot NO3 profiles for all STD (dark without errors)

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-2006 00:06:23
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-DEC-2006 00:06:23
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-DEC-2006 00:06:23

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[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](#)

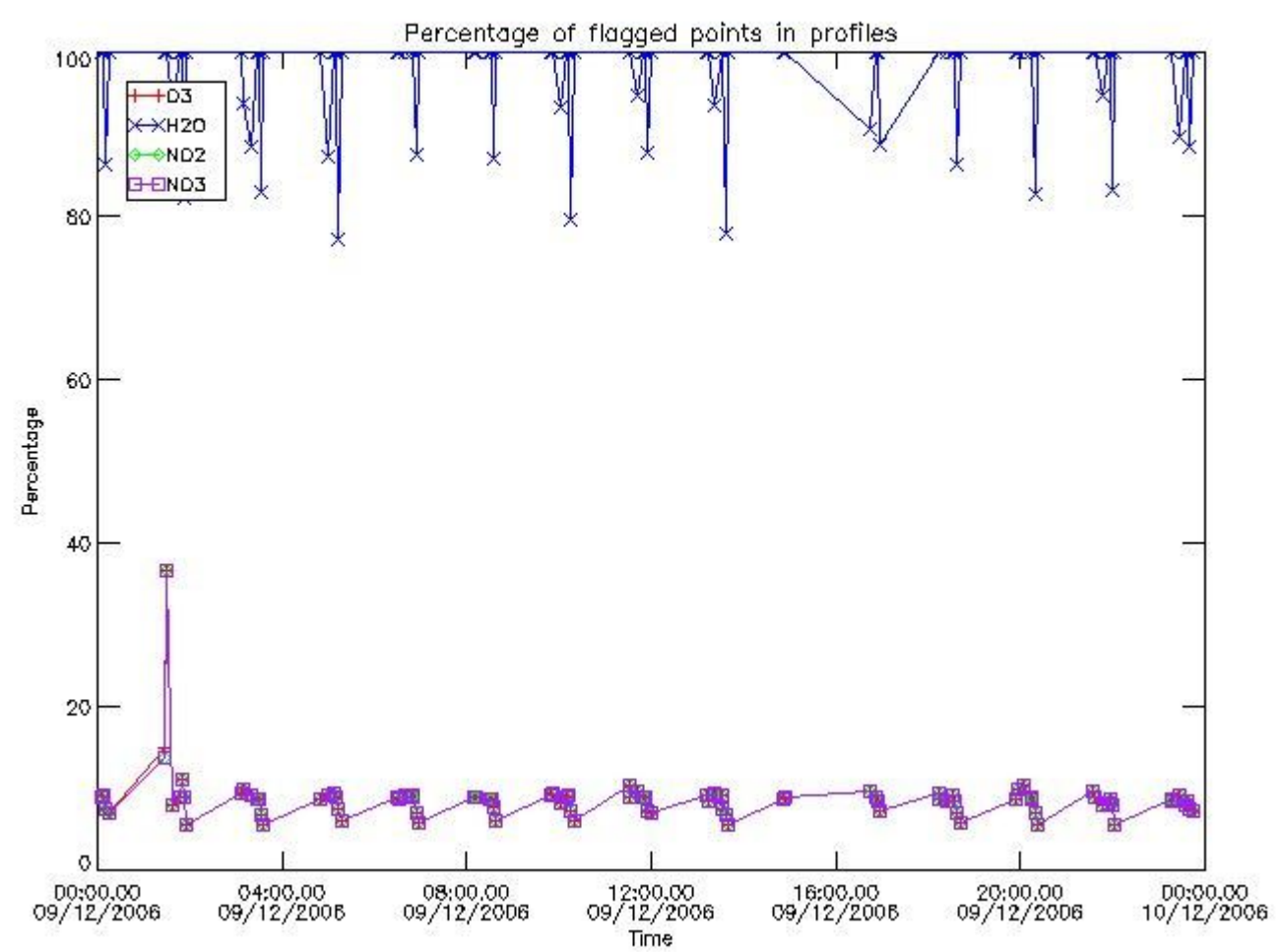
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284	GOM_NL__2PRFIN20061209_222435_000000372053_00373_24976_4832.N1	09-DEC-2006 22:24:35	Bright	36.500	114	3lot Aur	2.6930	4600.0	73	24976	No
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292	GOM_NL__2PRFIN20061209_230426_000000402053_00373_24976_4840.N1	09-DEC-2006 23:04:26	Bright	40.000	138	47Eps Vir	2.8280	4700.0	80	24976	No
293	GOM_NL__2PRFIN20061209_231019_000000472053_00373_24976_4841.N1	09-DEC-2006 23:10:19	Bright	47.000	15	67Alp Vir	0.97600	28000.	94	24976	No
294	GOM_NL__2PRFIN20061209_231346_000000392053_00373_24976_4842.N1	09-DEC-2006 23:13:46	Twilight	39.000	169	46Gam Hya	2.9910	4700.0	78	24976	No
295	GOM_NL__2PRFIN20061209_231529_000000472053_00373_24976_4843.N1	09-DEC-2006 23:15:29	Dark	47.000	100	4Gam Crv	2.5800	13100.	94	24976	No
296	GOM_NL__2PRFIN20061209_231705_000000492053_00373_24976_4844.N1	09-DEC-2006 23:17:05	Dark	49.000	171	2Eps Crv	3.0010	4250.0	98	24976	No
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302	GOM_NL__2PRFIN20061209_234900_000000412053_00374_24977_4849.N1	09-DEC-2006 23:49:00	Straylight	41.000	101	11Alp Lep	2.5820	7000.0	82	24977	No
303	GOM_NL__2PRFIN20061209_235215_000000442053_00374_24977_4850.N1	09-DEC-2006 23:52:15	Straylight	44.000	7	19Bet Ori	0.10000	14000.	88	24977	No
304	GOM_NL__2PRFIN20061209_235446_000000452053_00374_24977_4851.N1	09-DEC-2006 23:54:46	Straylight	45.000	30	46Eps Ori	1.6940	30000.	90	24977	No
305	GOM_NL__2PRFIN20061209_235714_000000472053_00374_24977_4852.N1	09-DEC-2006 23:57:14	Twilight	47.000	27	24Gam Ori	1.6360	26000.	94	24977	No
306	GOM_NL__2PRFIN20061209_235947_000000512053_00374_24977_4853.N1	09-DEC-2006 23:59:47	Twilight	51.000	13	87Alp Tau	0.86700	3800.0	102	24977	No

3. Quality information per product

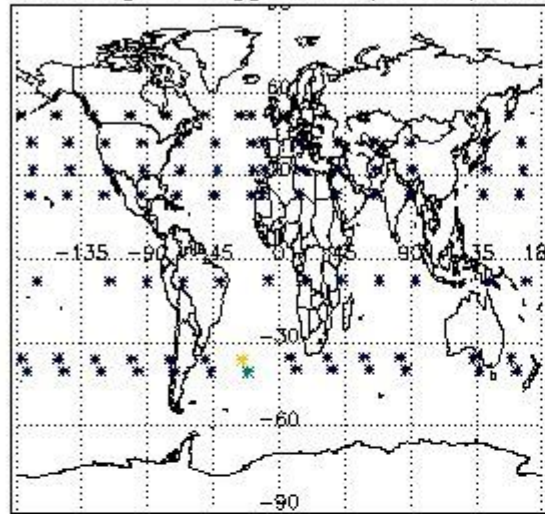
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

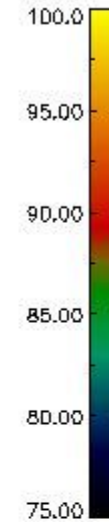
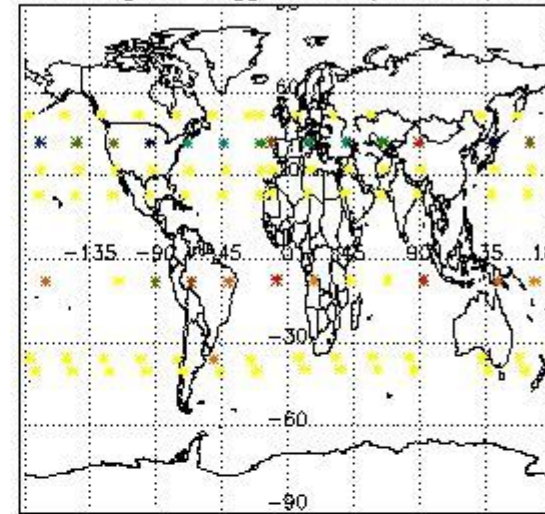


3.2 Plot quality information per product (world map)

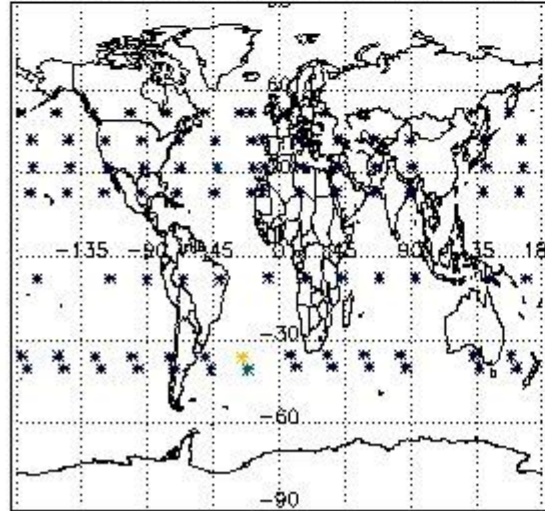
Percentage of flagged data per O3 profile



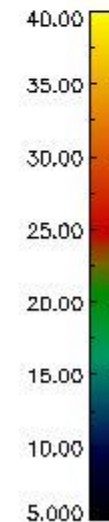
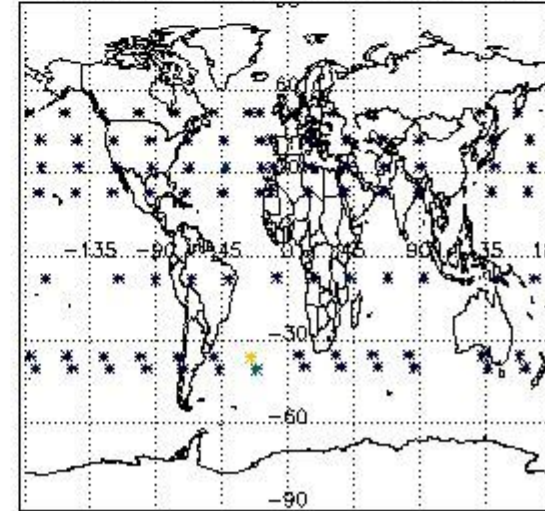
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

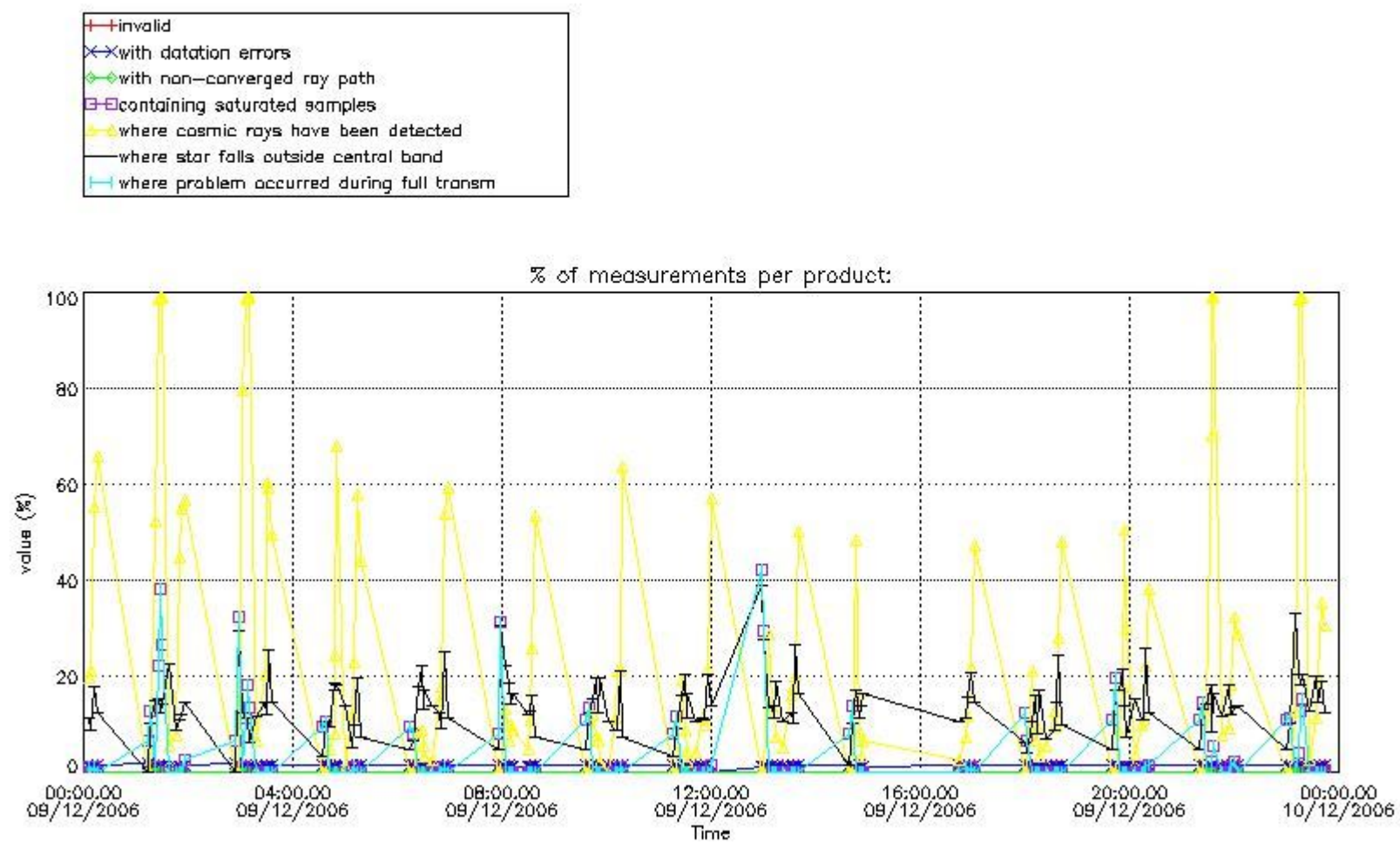


4. Level 1 quality information per product

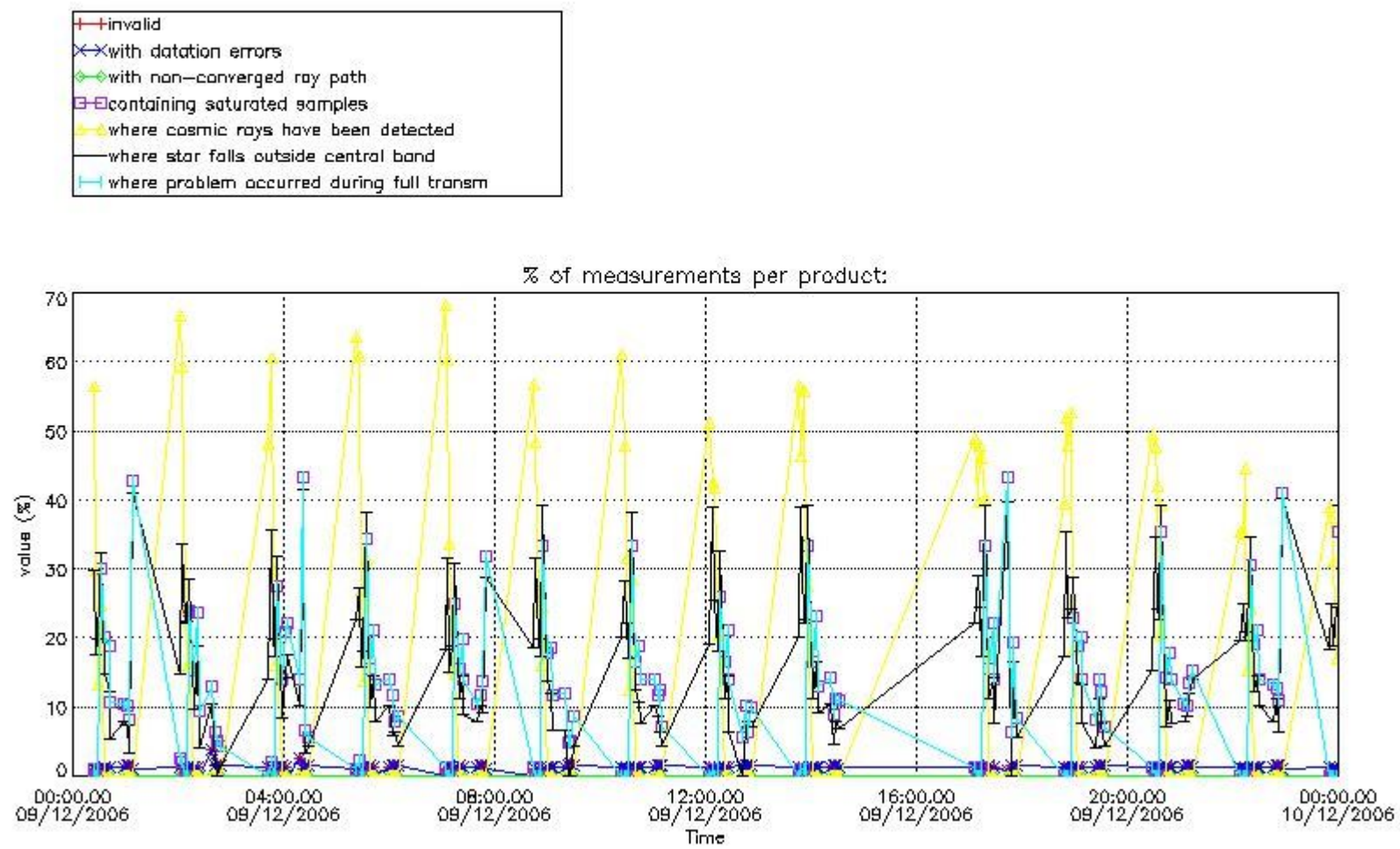
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

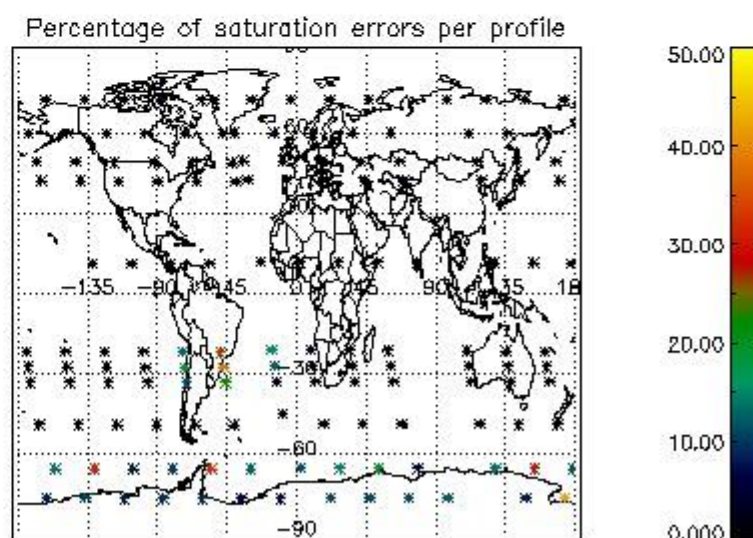
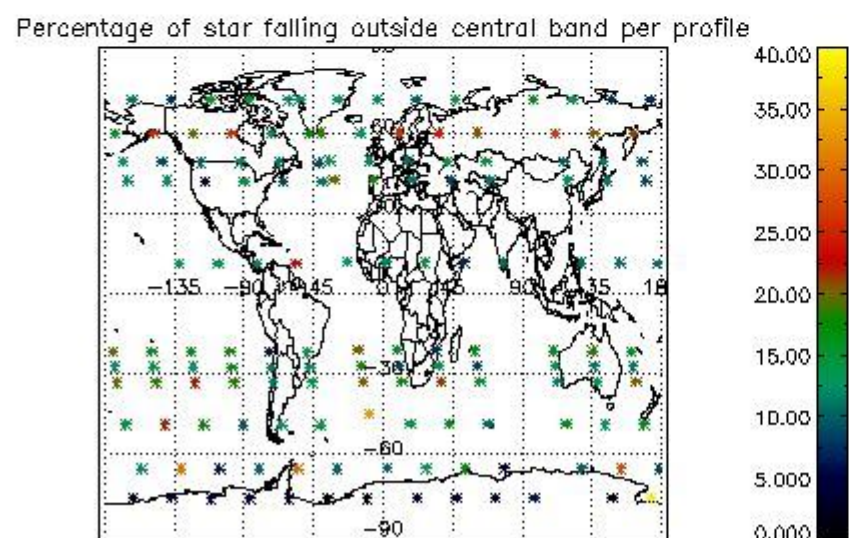
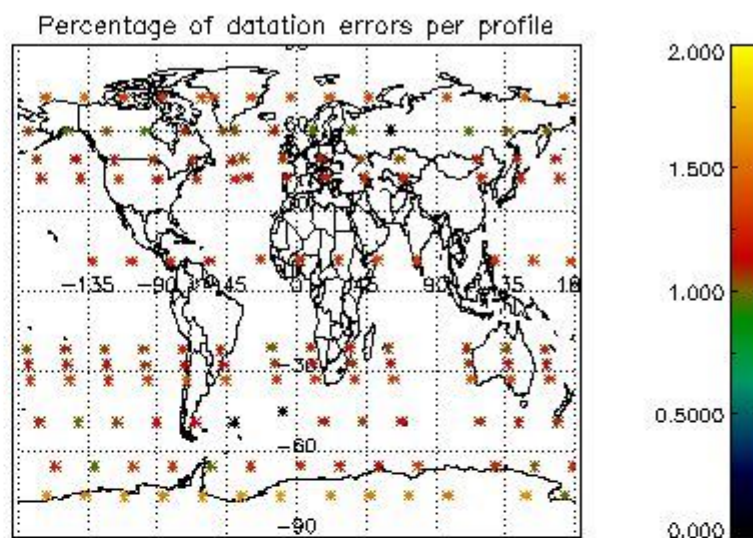
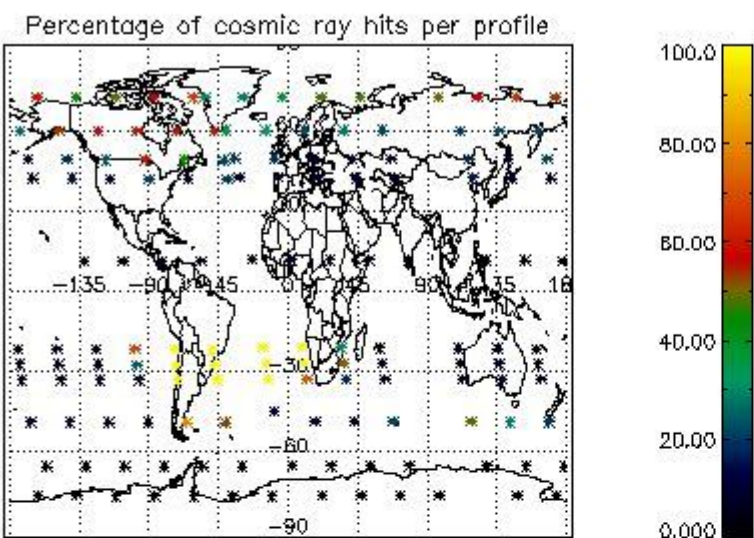


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

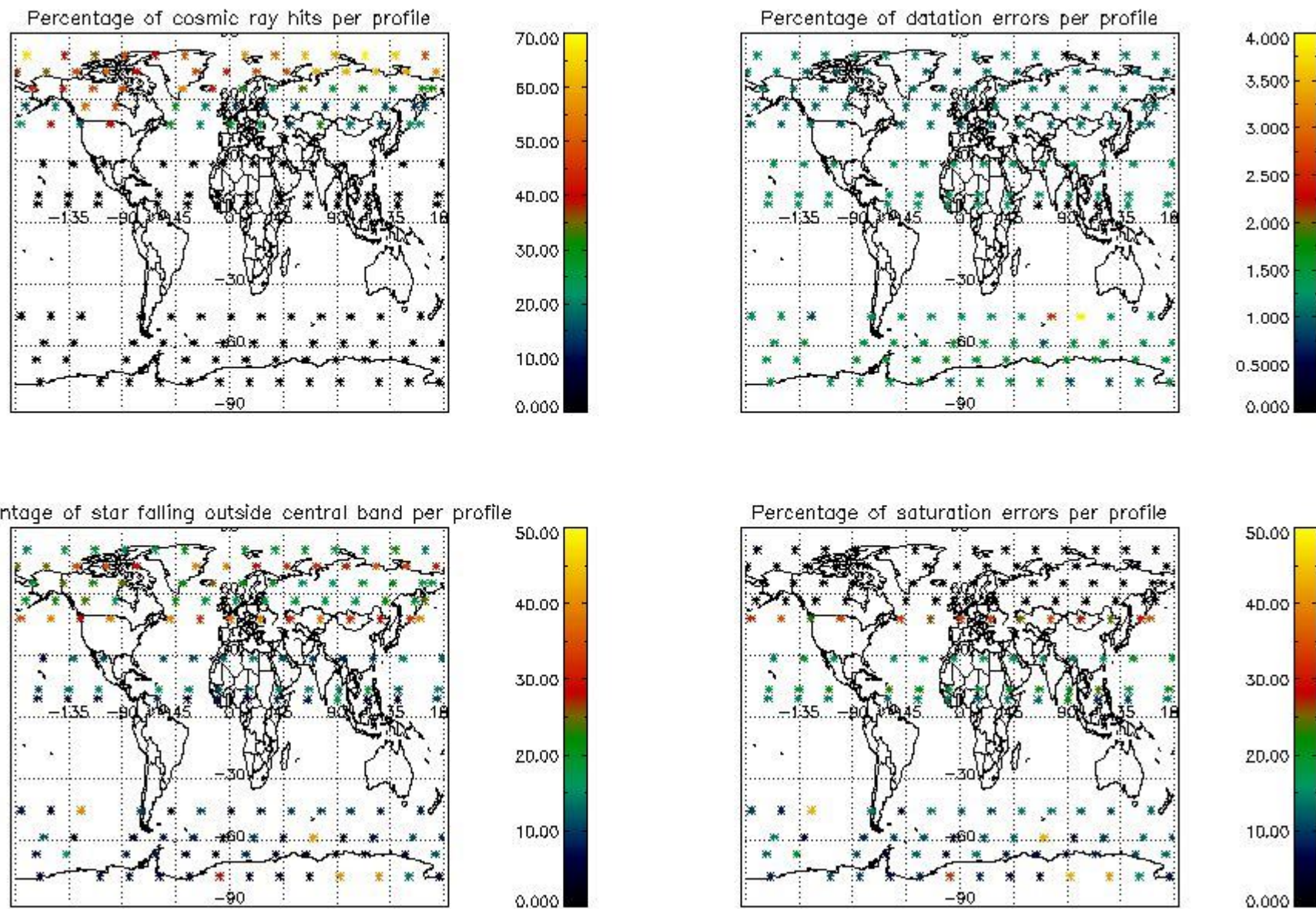


4.2 Plot quality information per product coming from level 1b processing (world map)

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

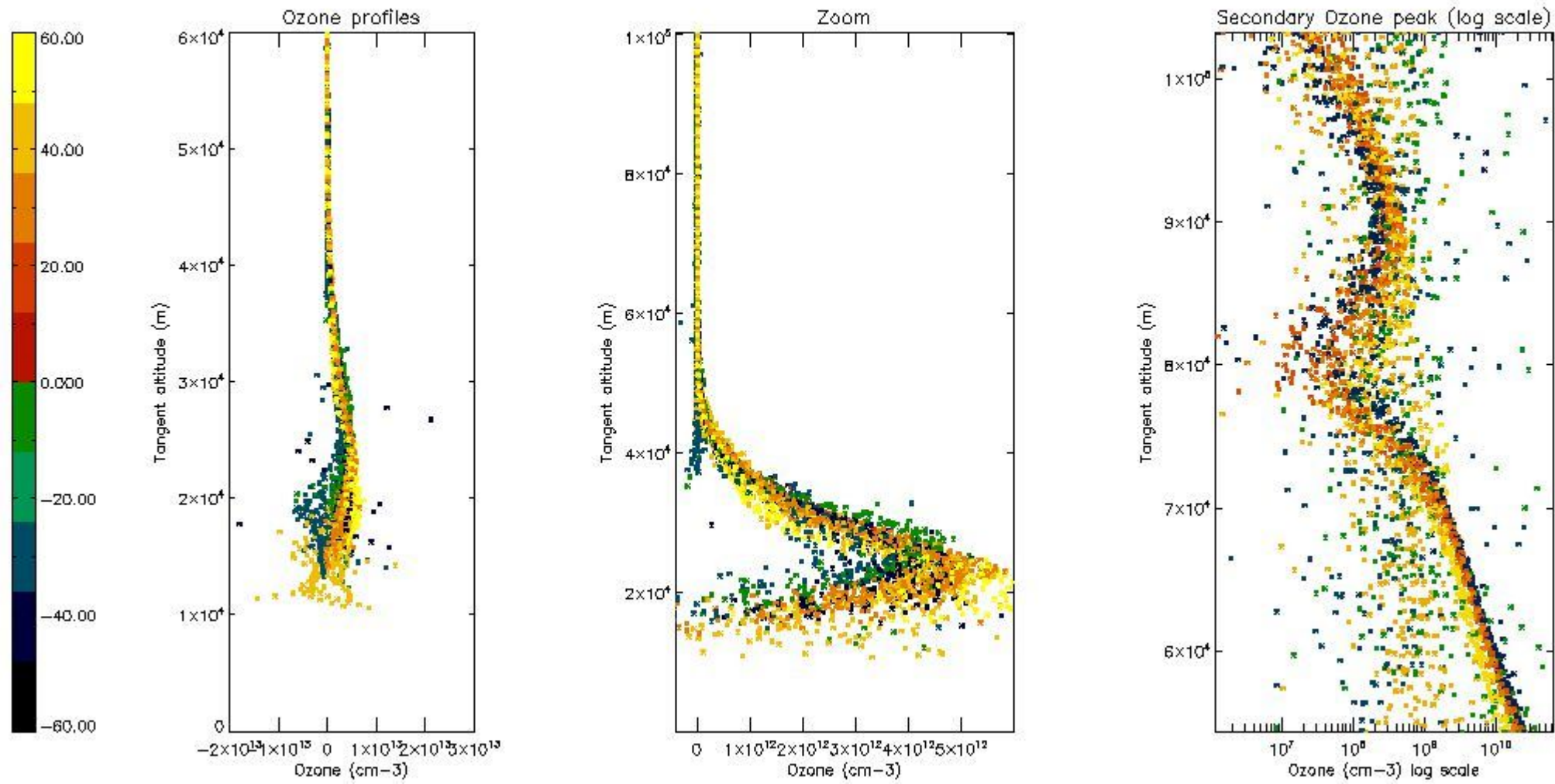
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	32
STD < 20	17

STD < 10	13
STD < 5	9

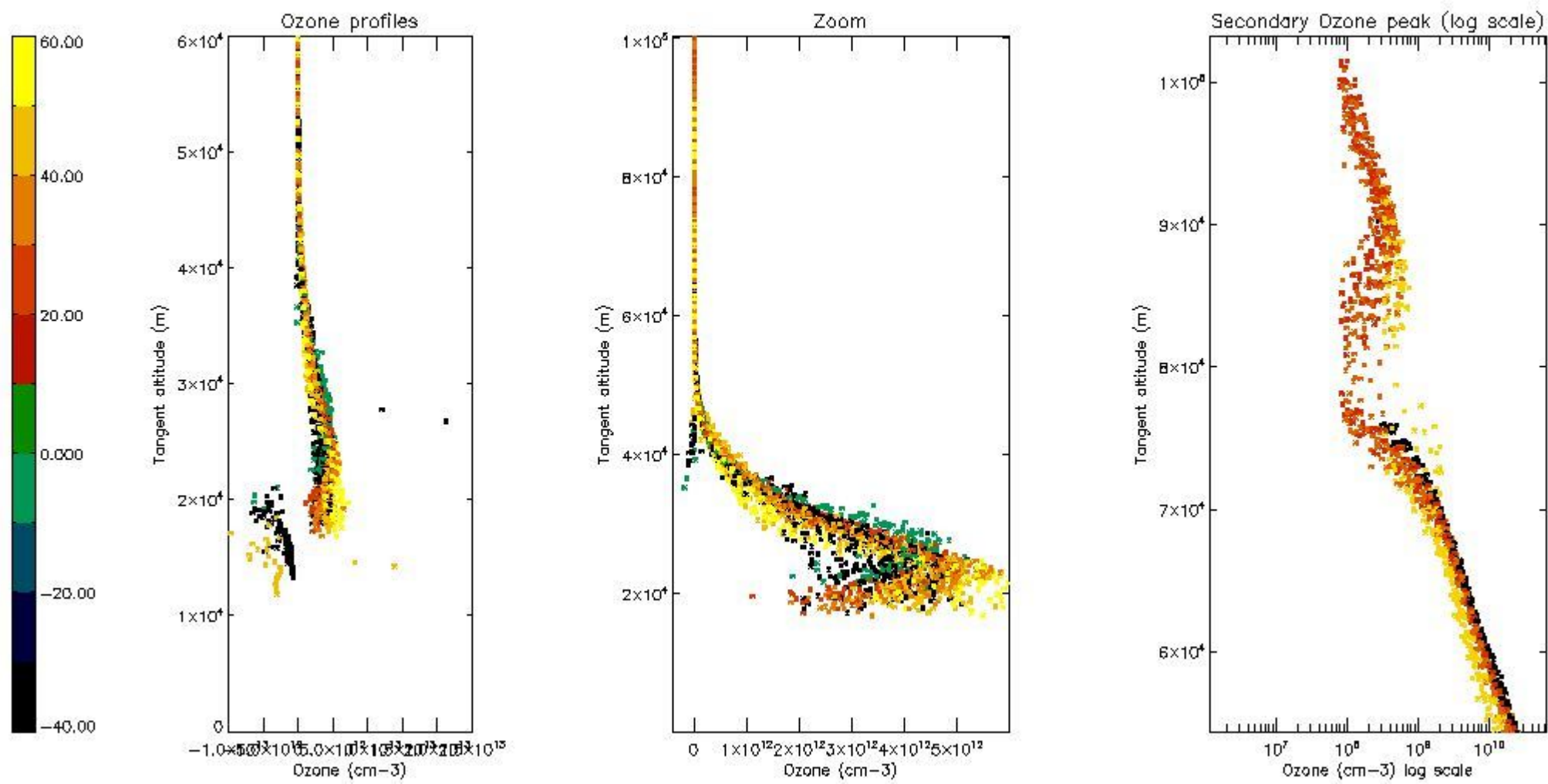
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



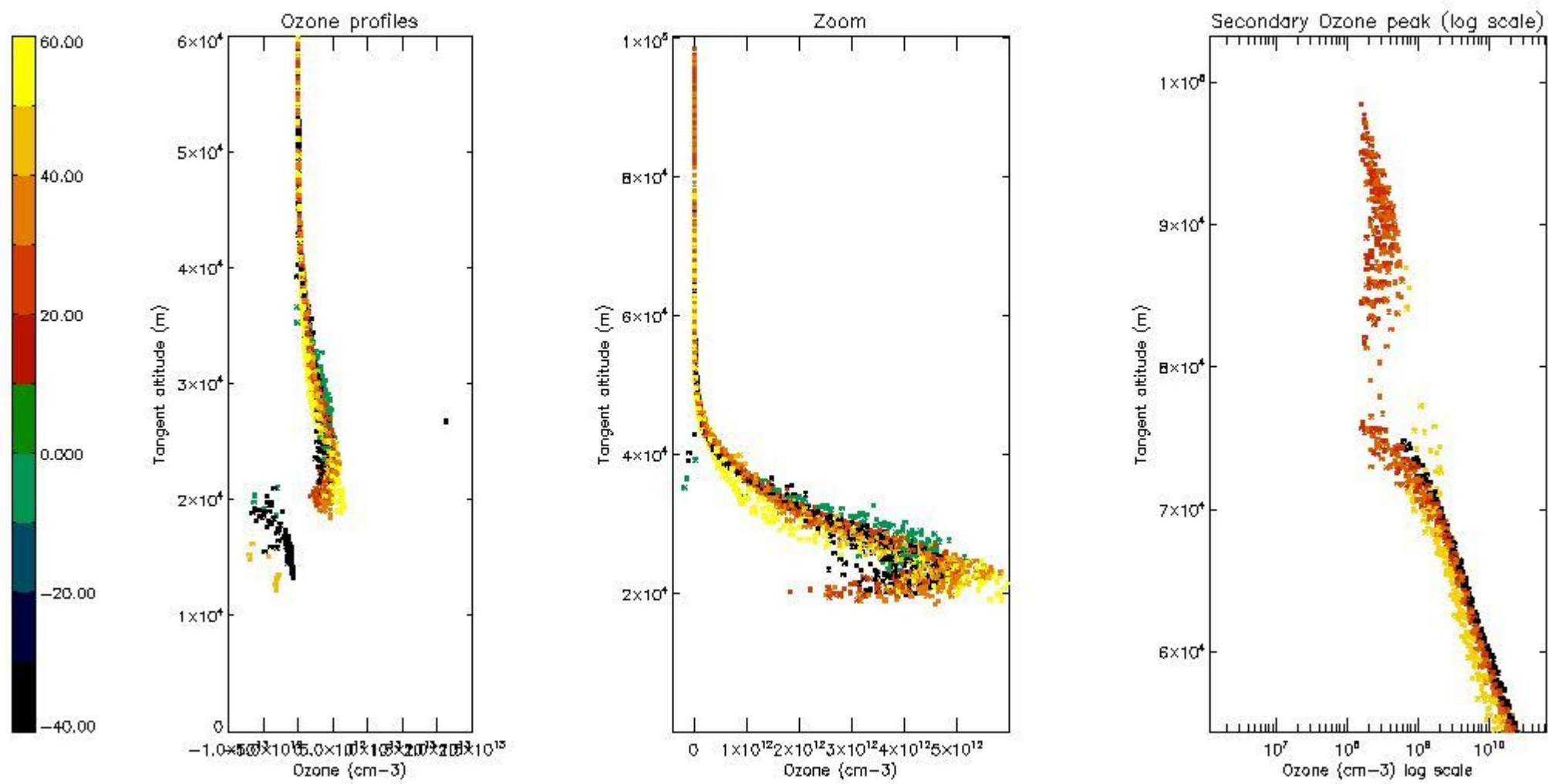
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



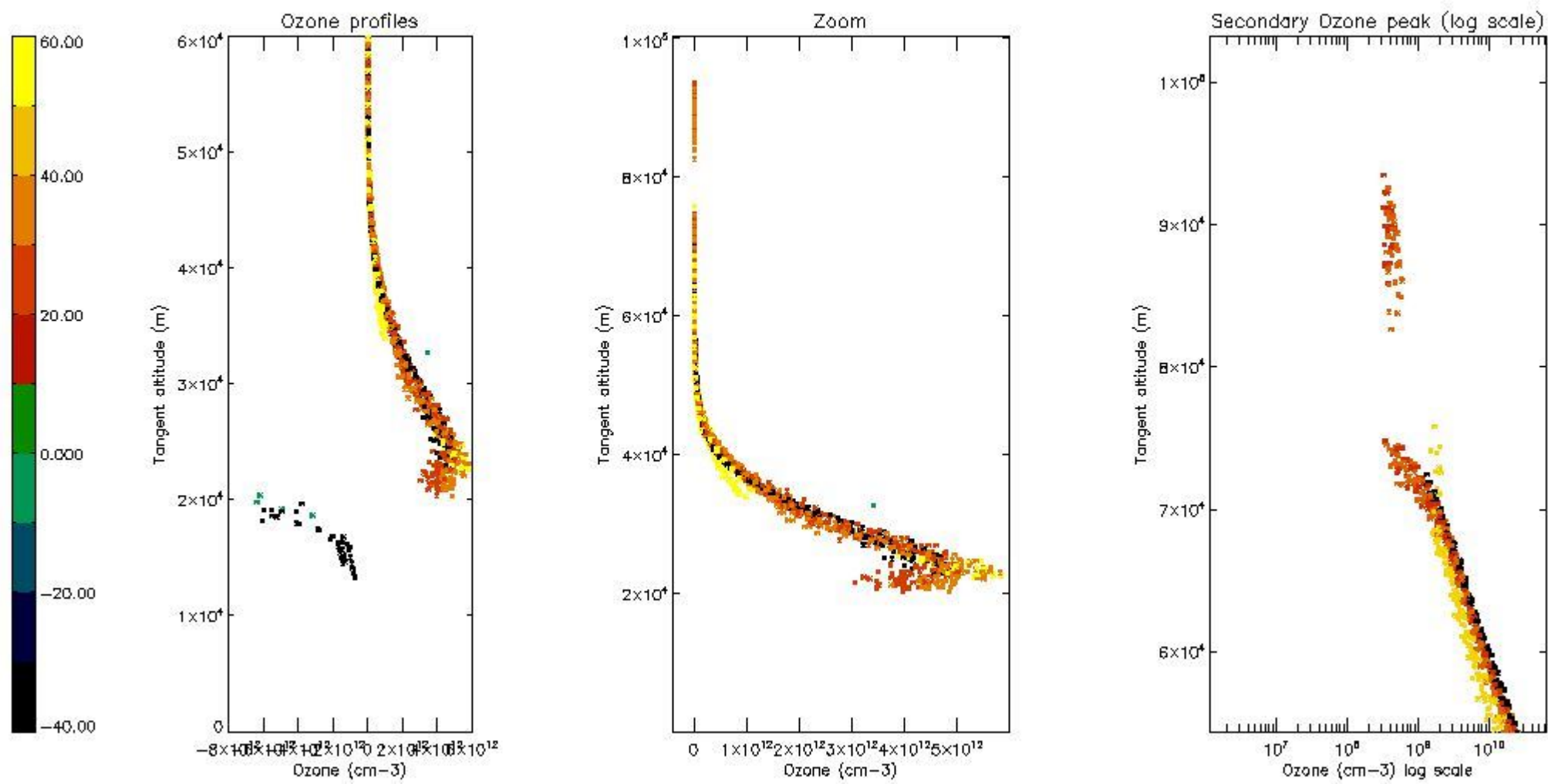
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



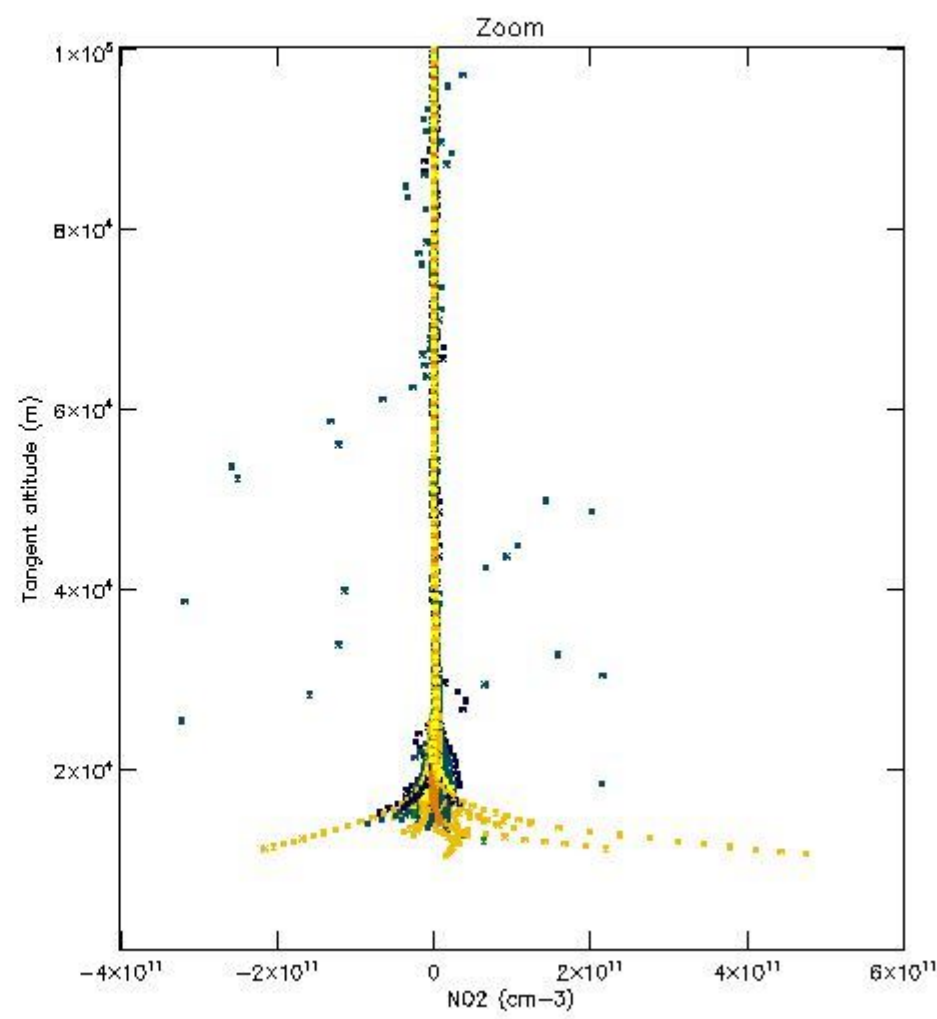
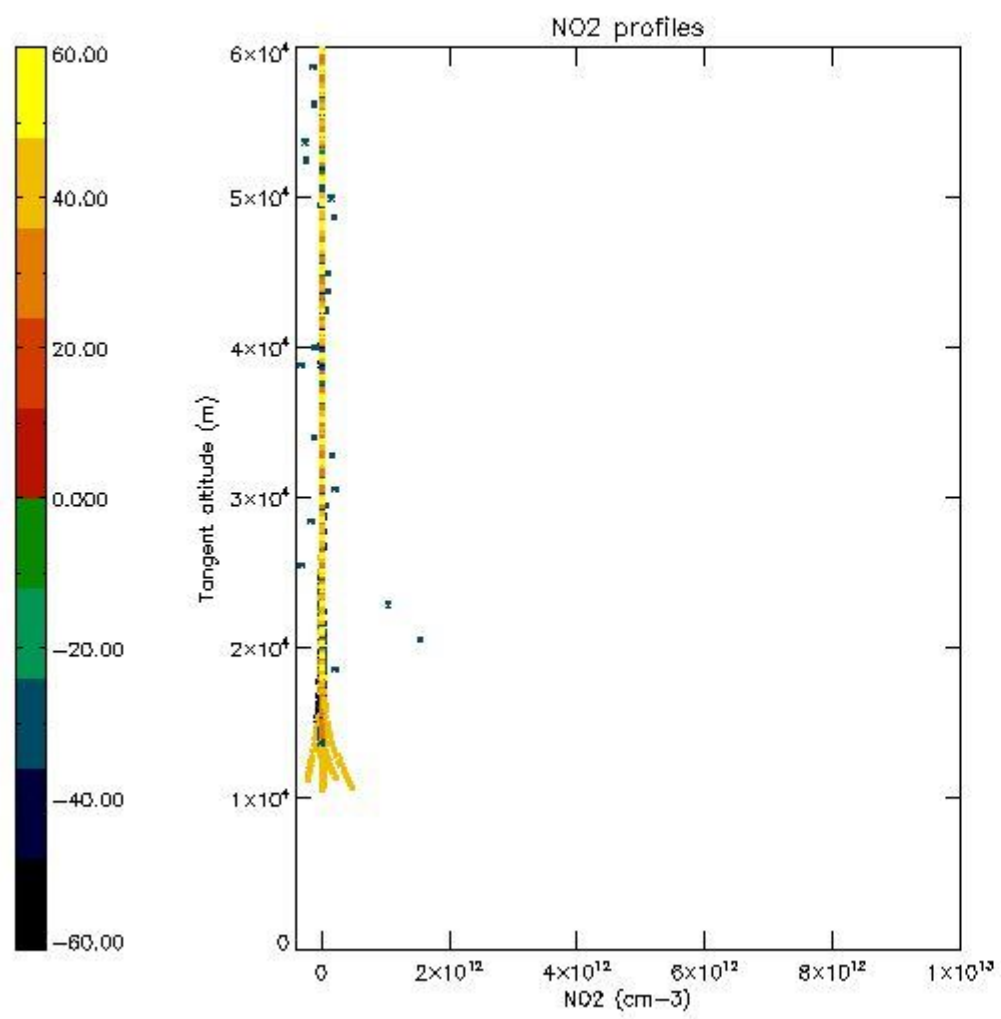
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



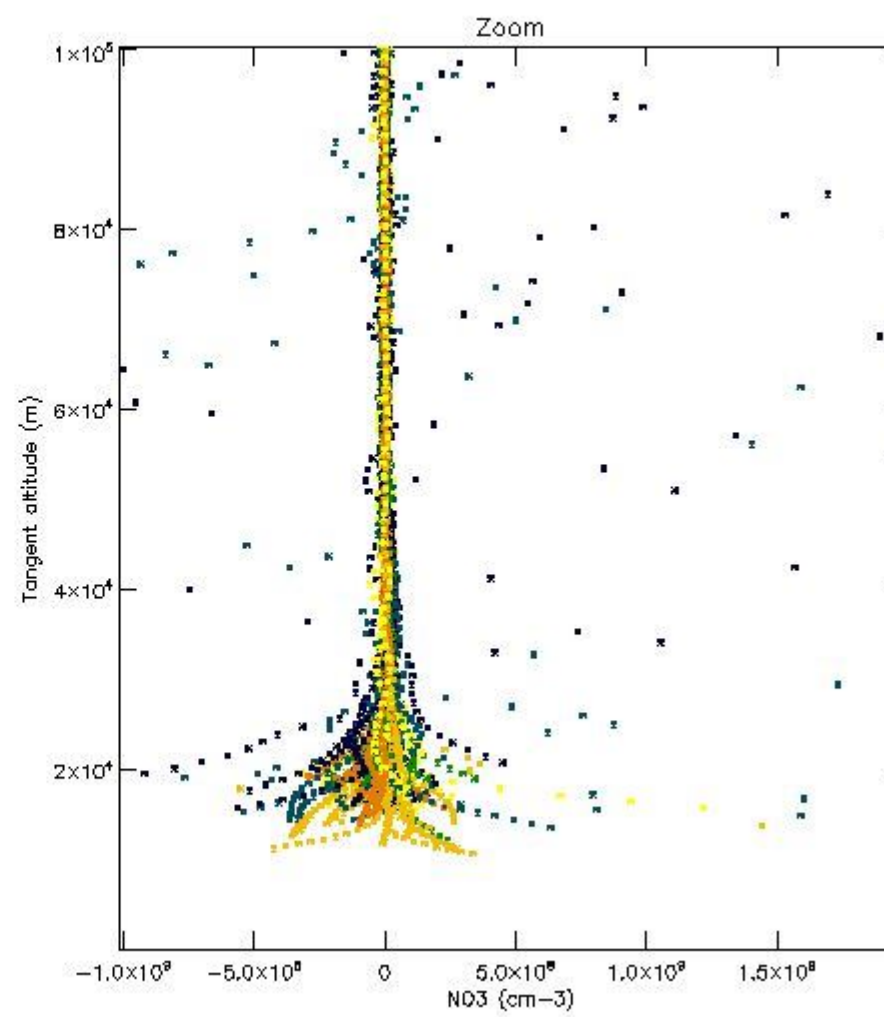
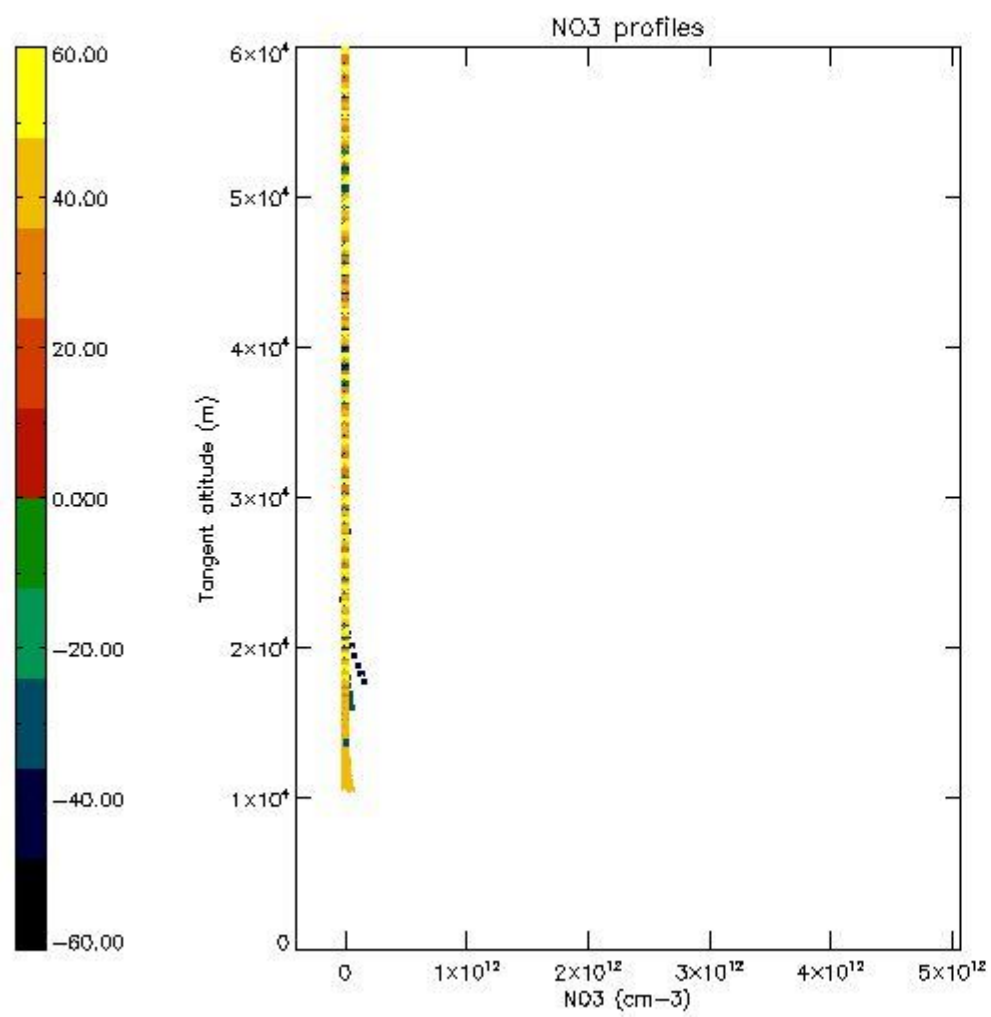
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



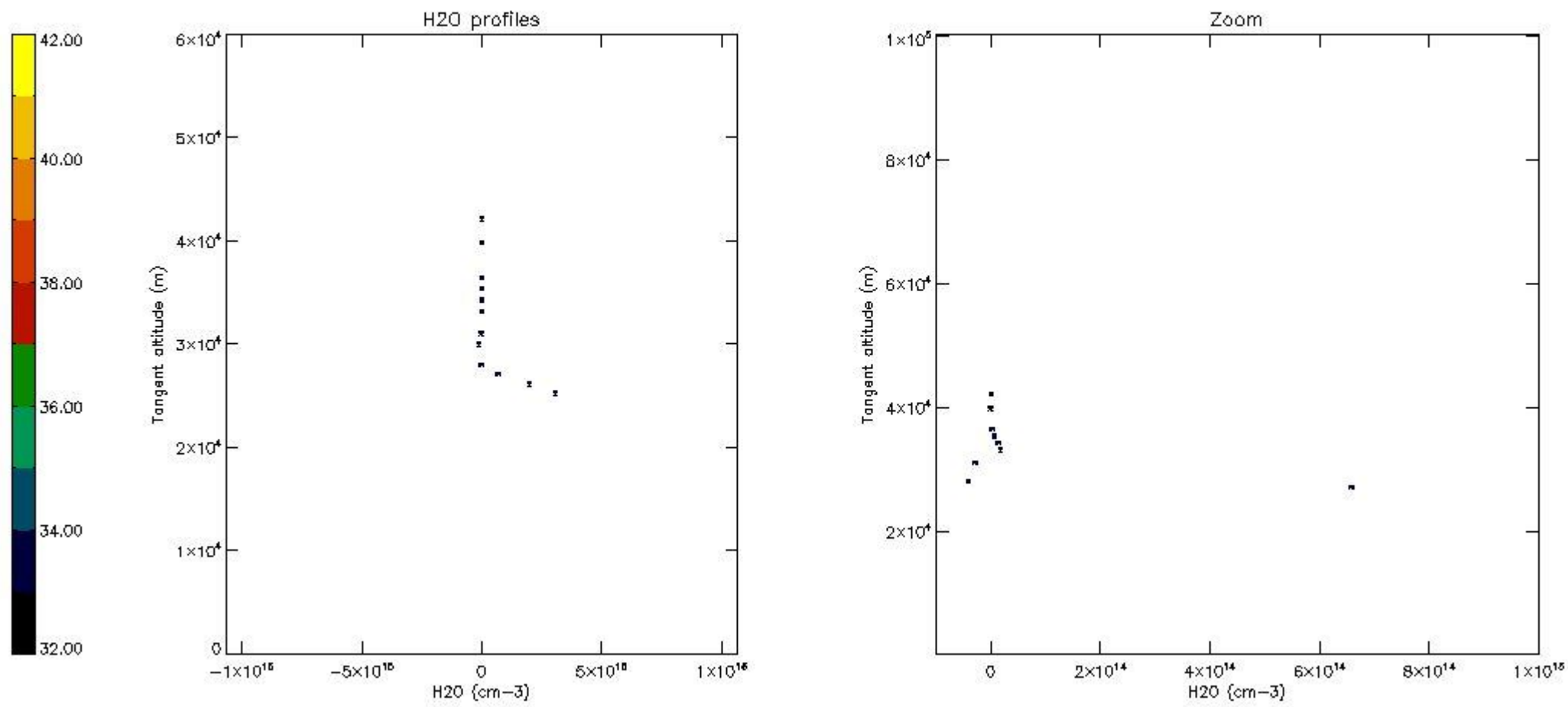
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

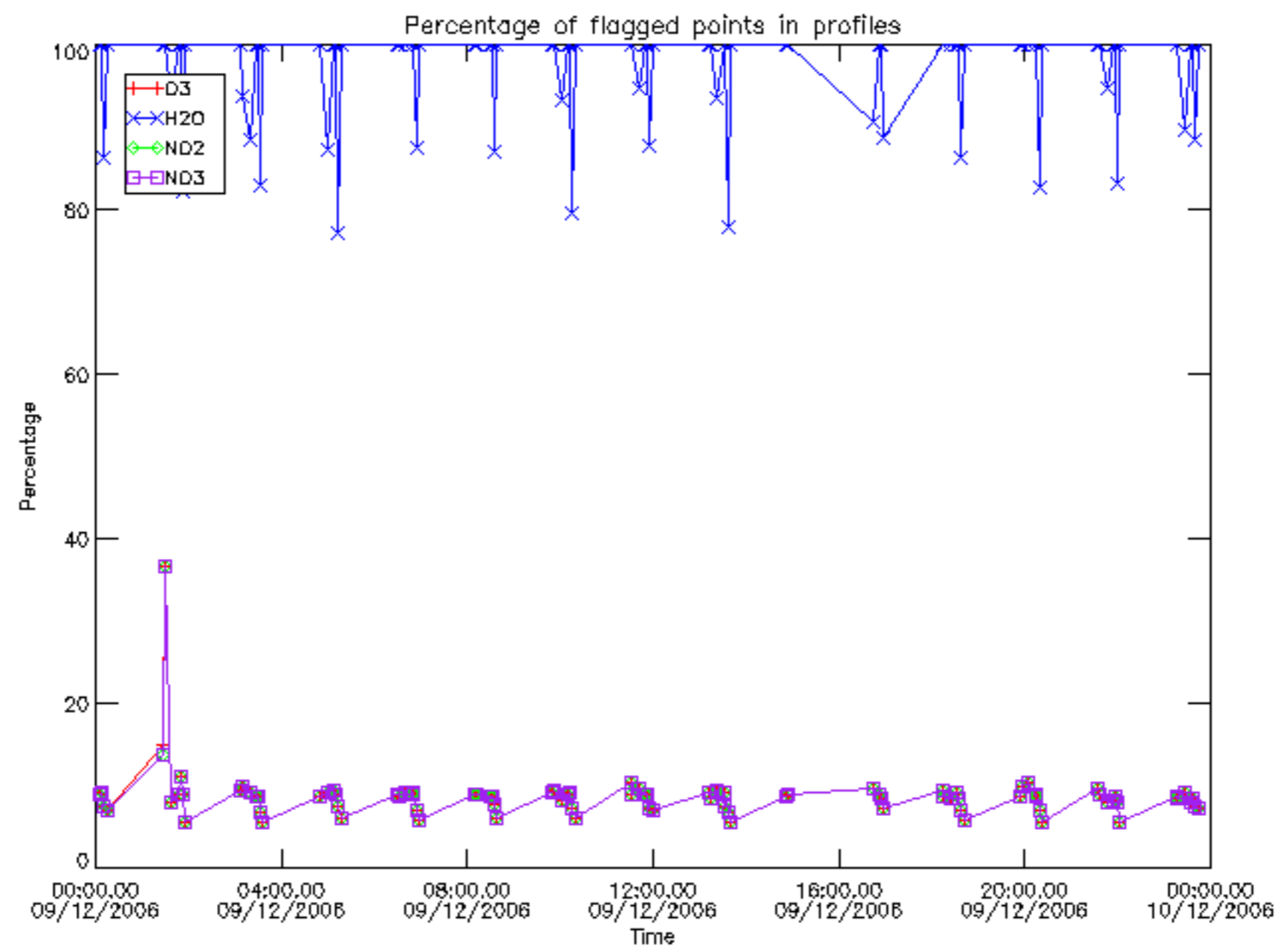
The colorbar represents the latitude.



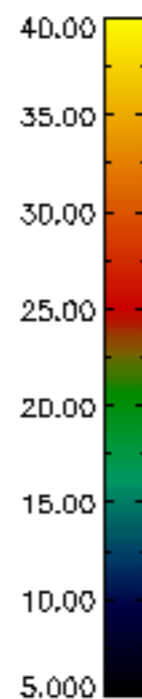
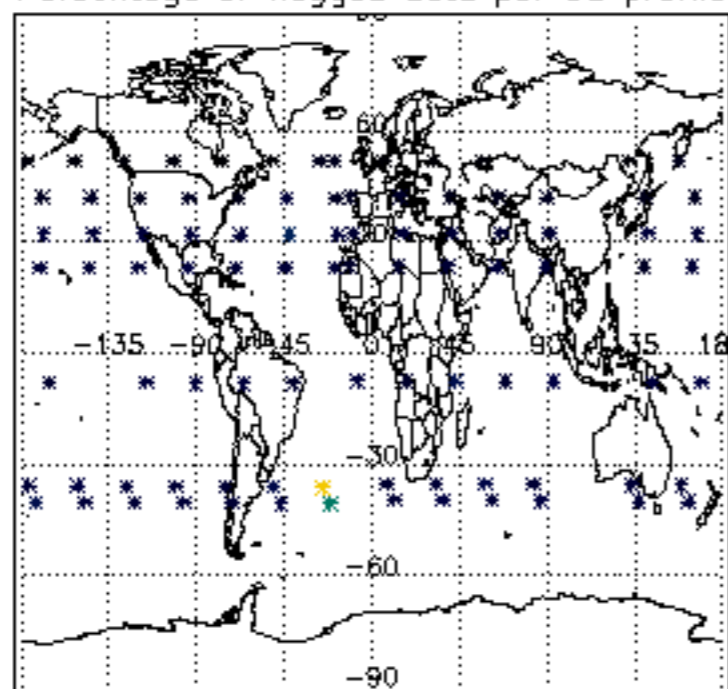
6. Auxiliary Data Files used for the production reported in section 2

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.

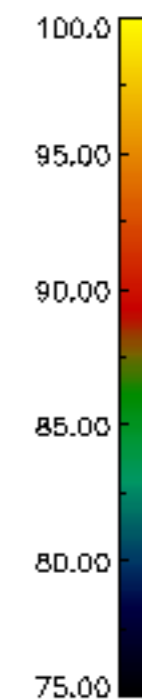
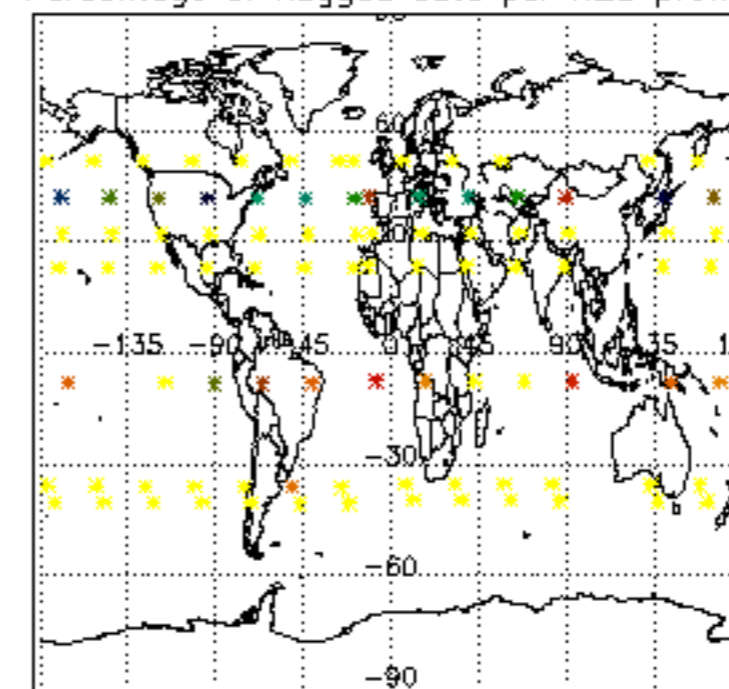
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	09-DEC-2006 00:06:23
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-DEC-2006 00:06:23
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-DEC-2006 00:06:23



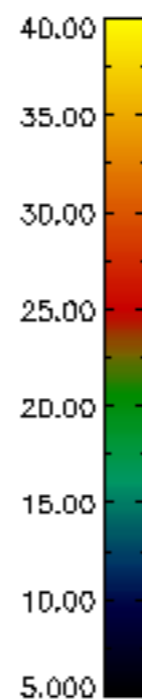
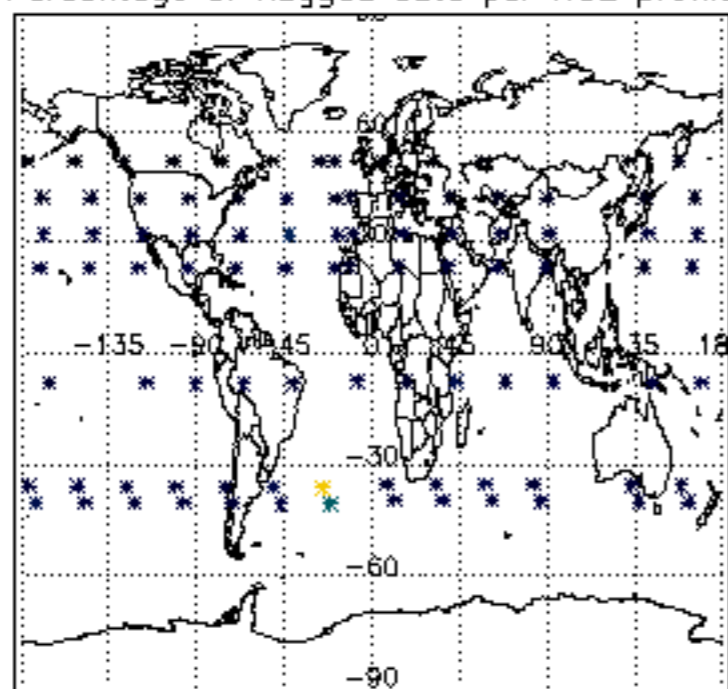
Percentage of flagged data per D3 profile



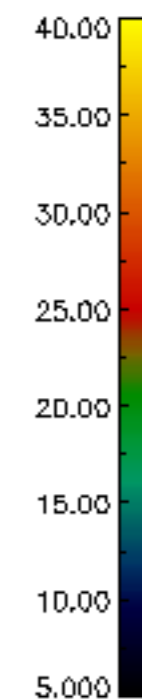
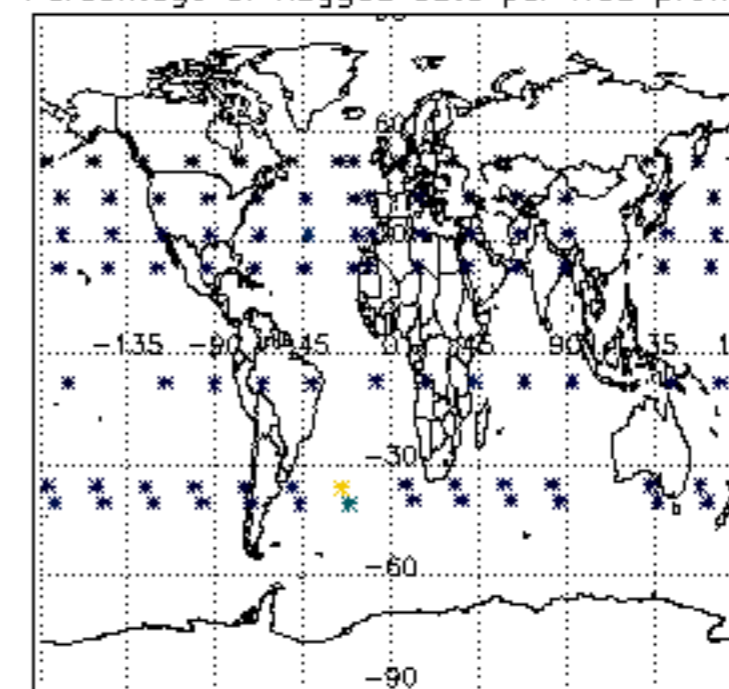
Percentage of flagged data per H2O profile

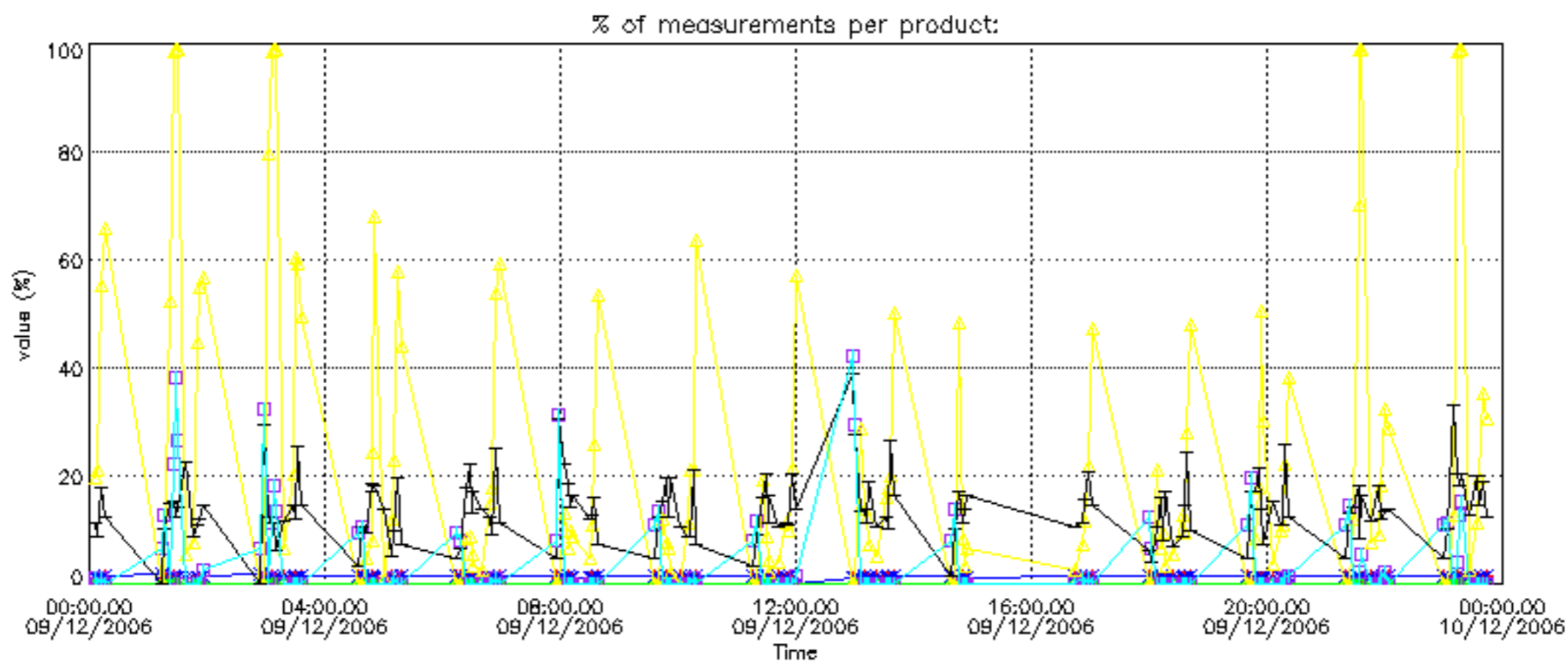


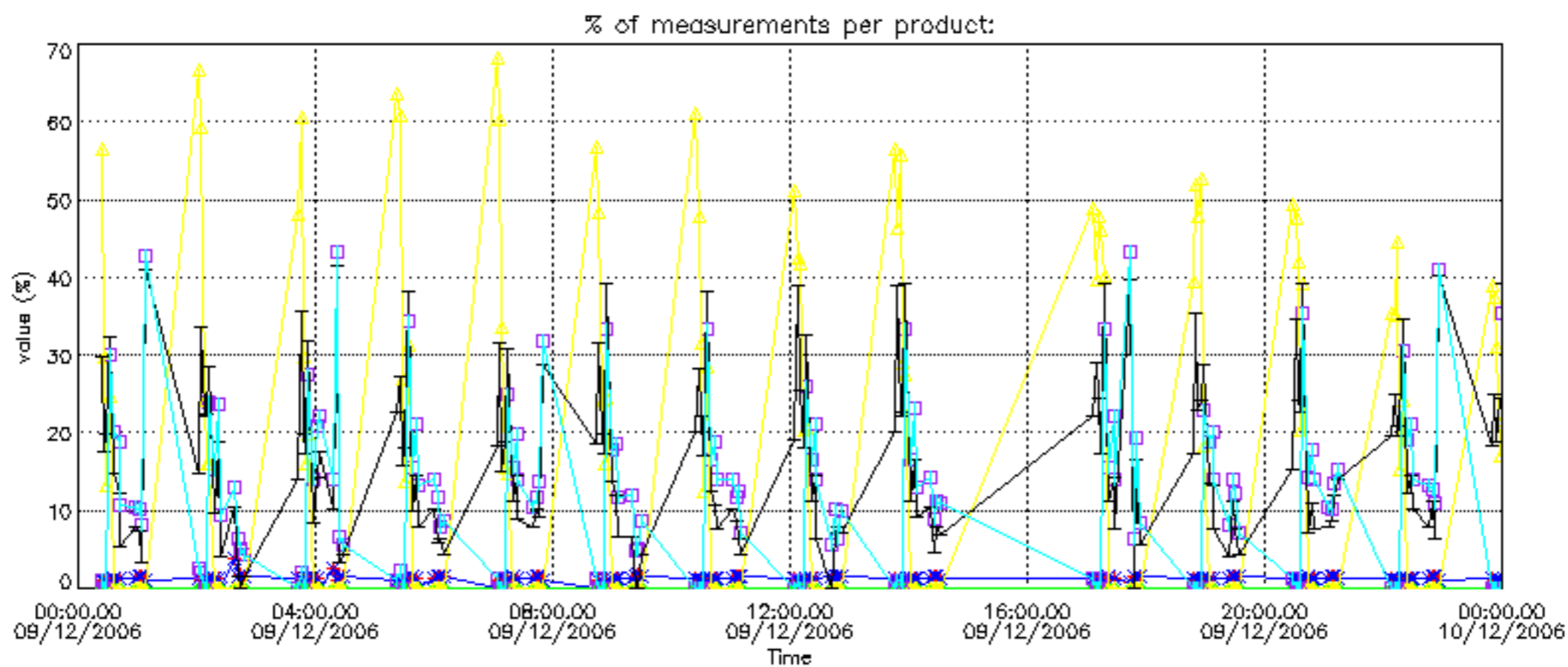
Percentage of flagged data per NO2 profile



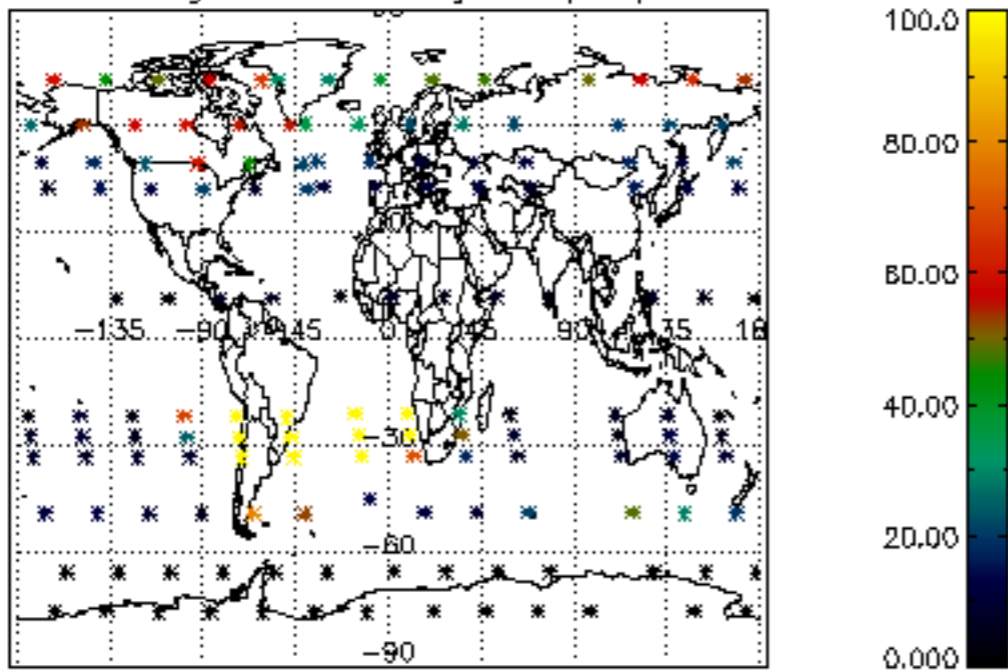
Percentage of flagged data per NO3 profile



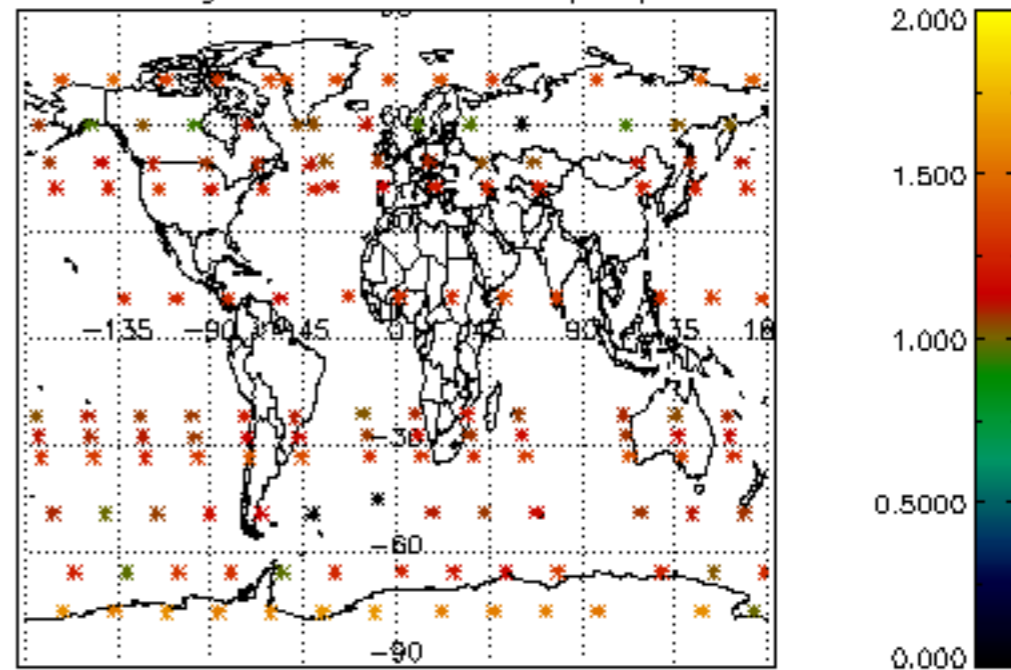




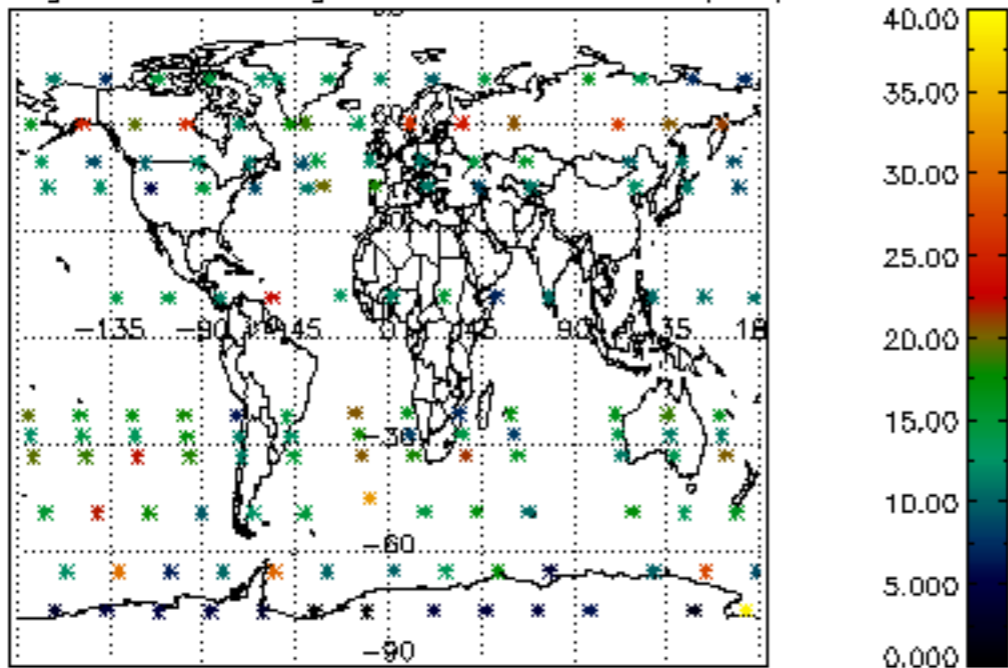
Percentage of cosmic ray hits per profile



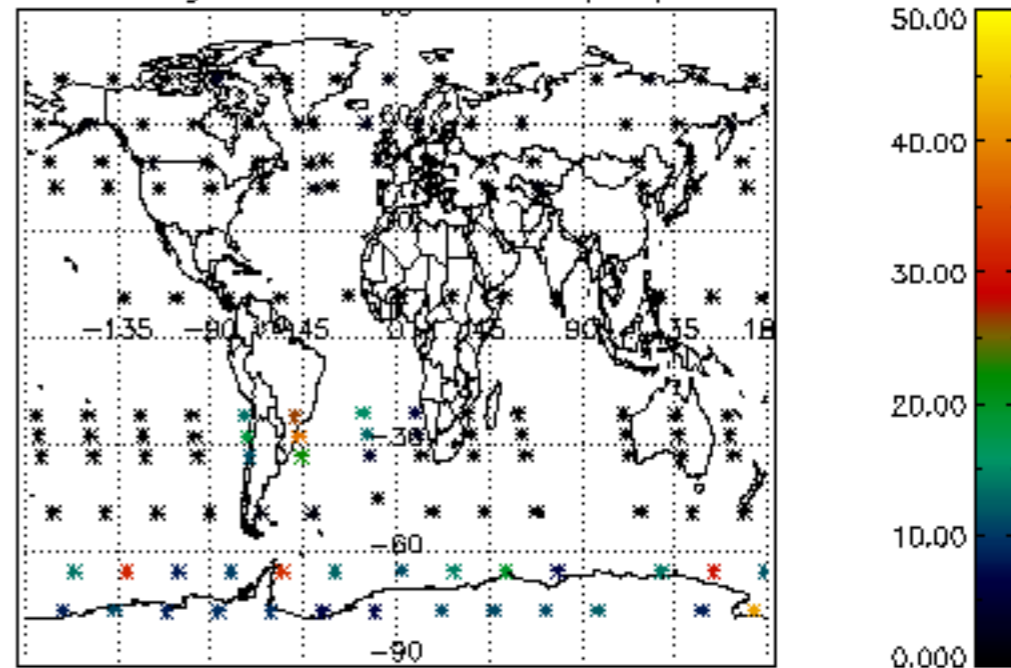
Percentage of datation errors per profile



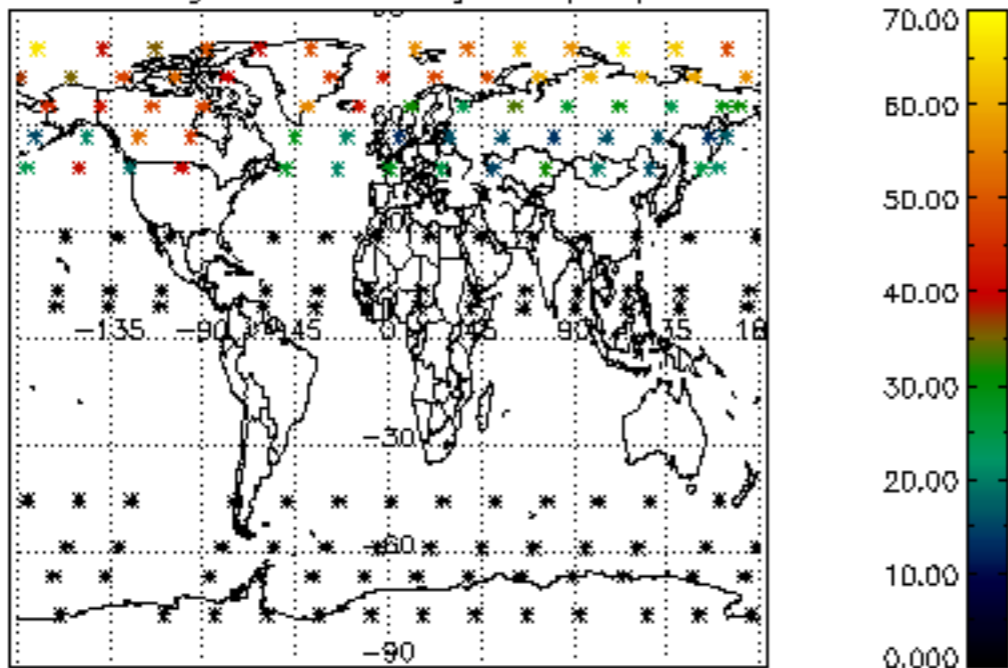
Percentage of star falling outside central band per profile



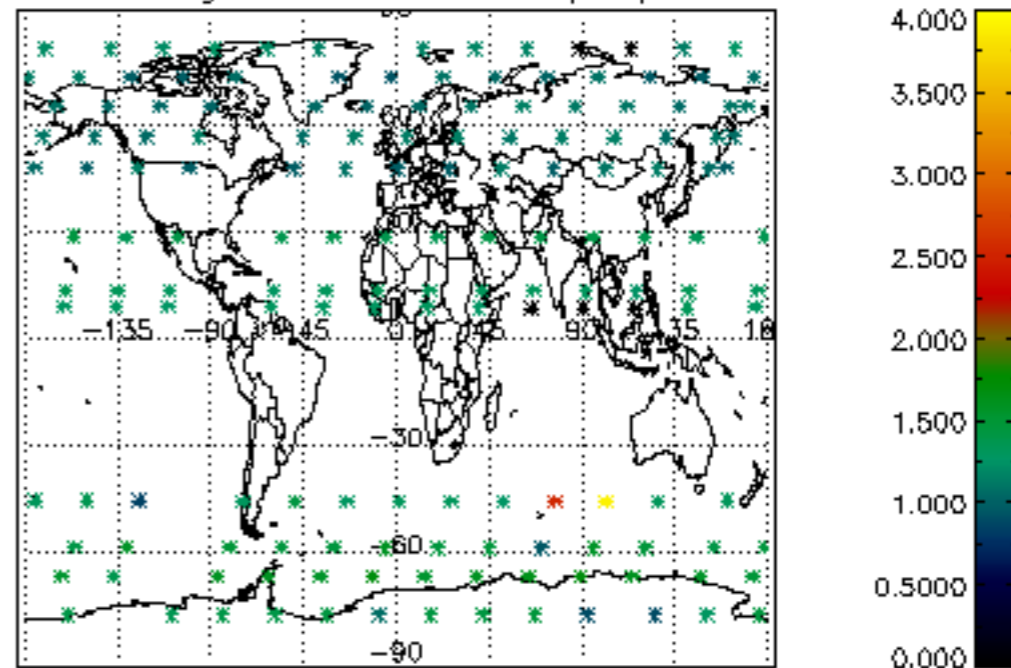
Percentage of saturation errors per profile



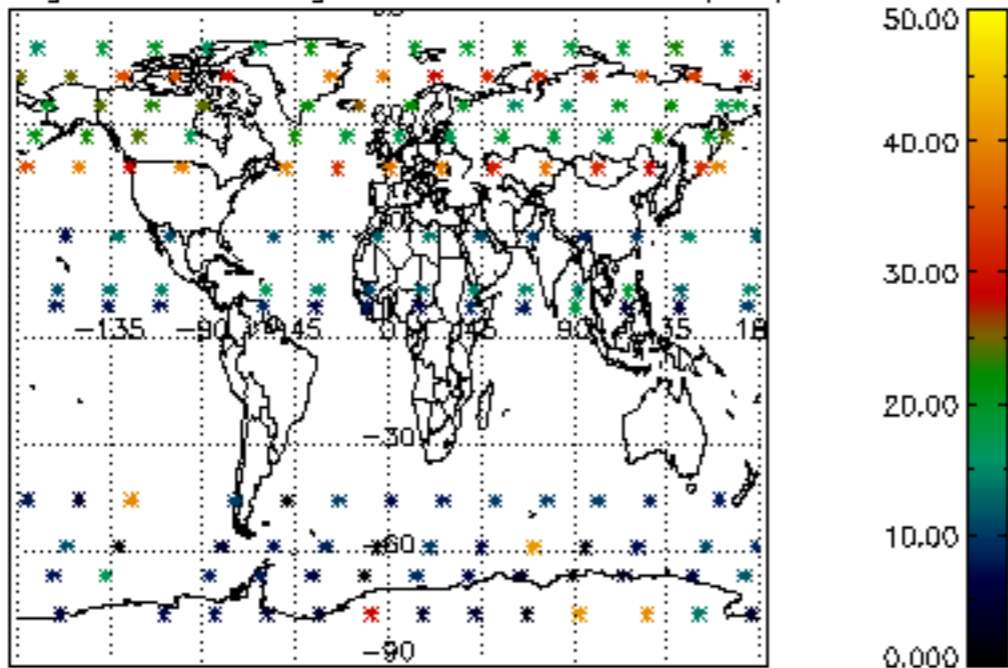
Percentage of cosmic ray hits per profile



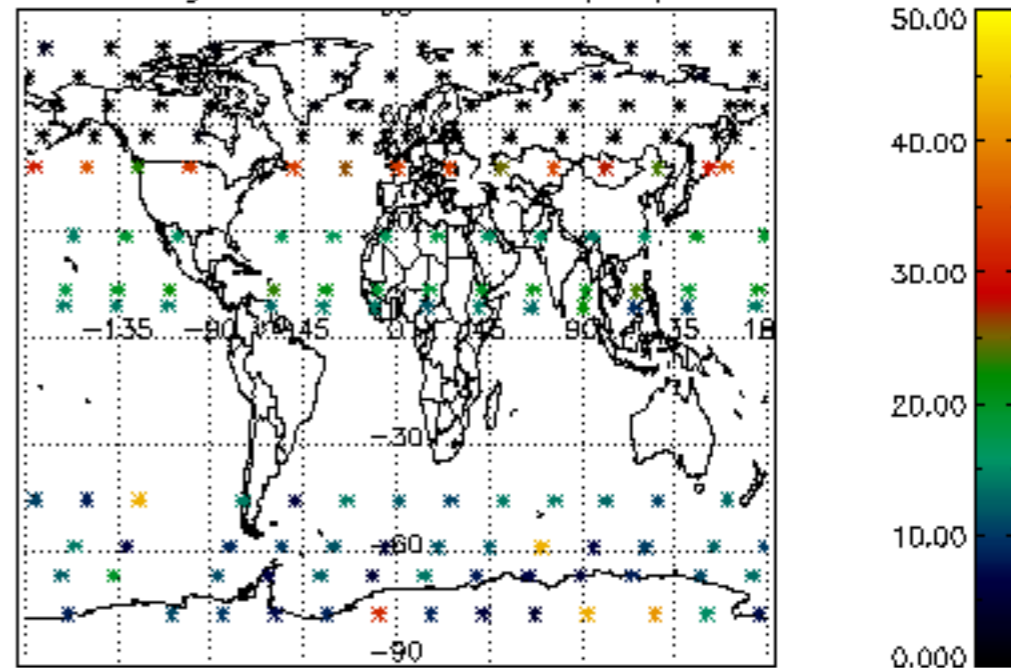
Percentage of datation errors per profile

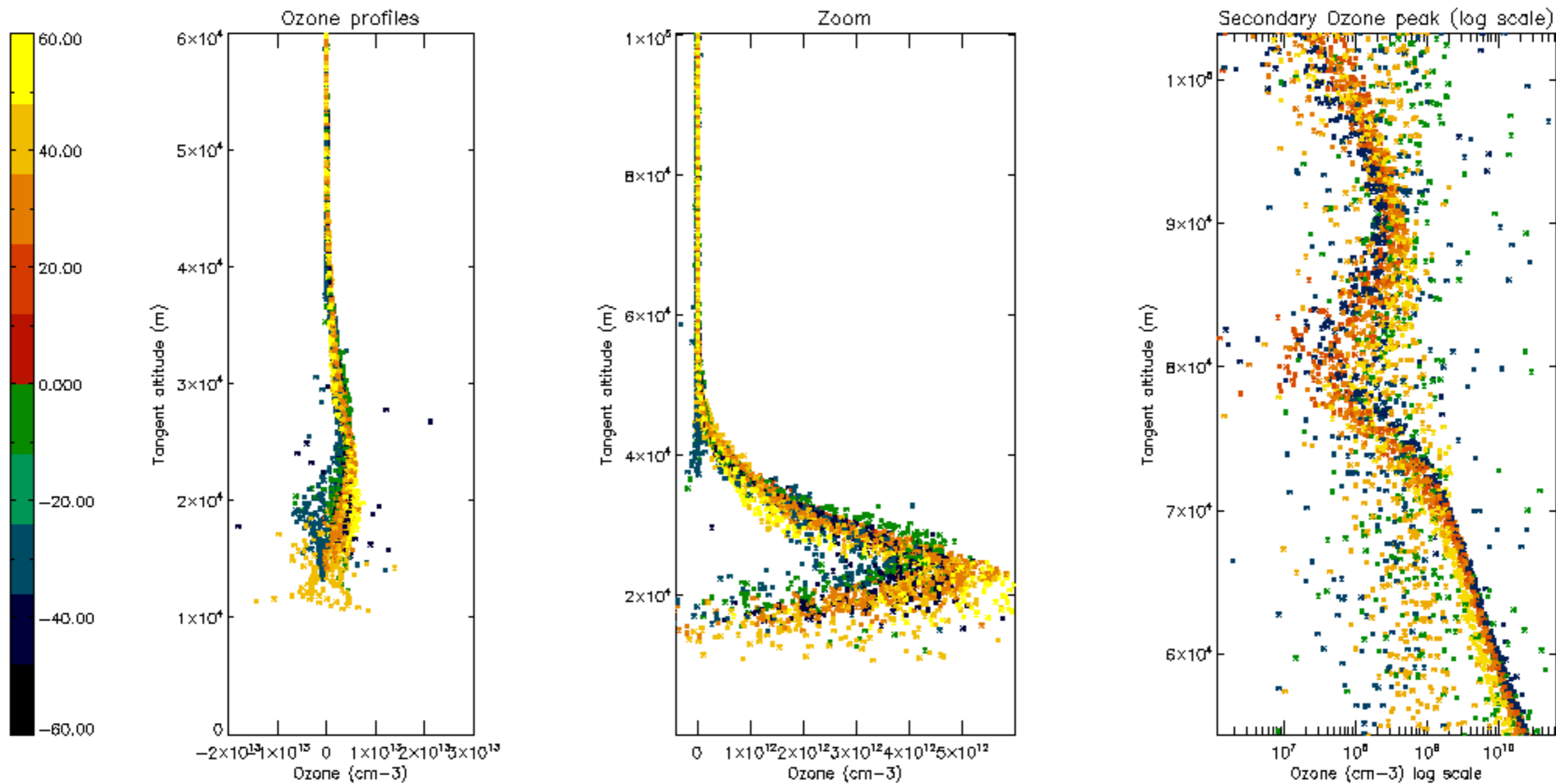


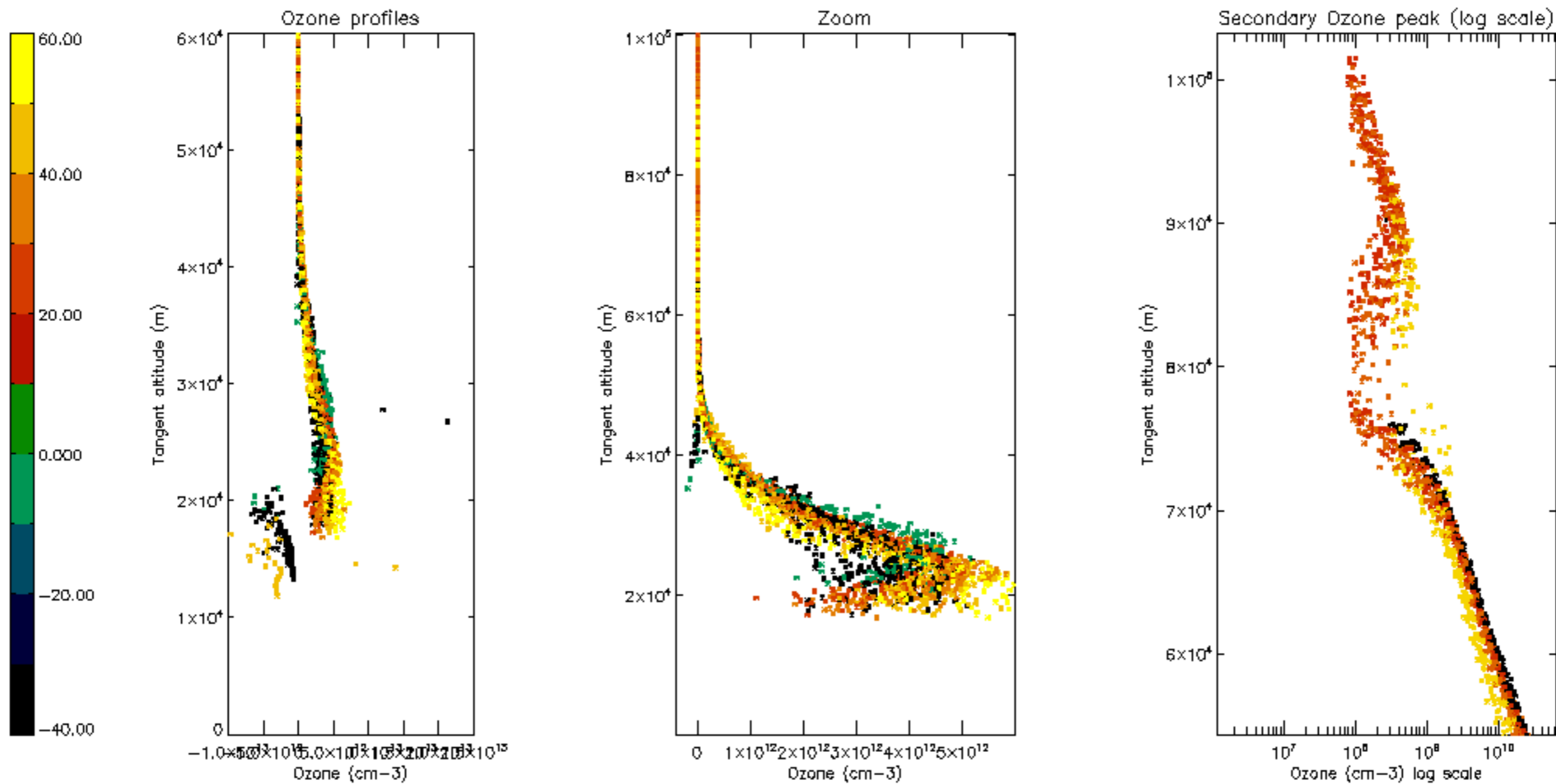
Percentage of star falling outside central band per profile

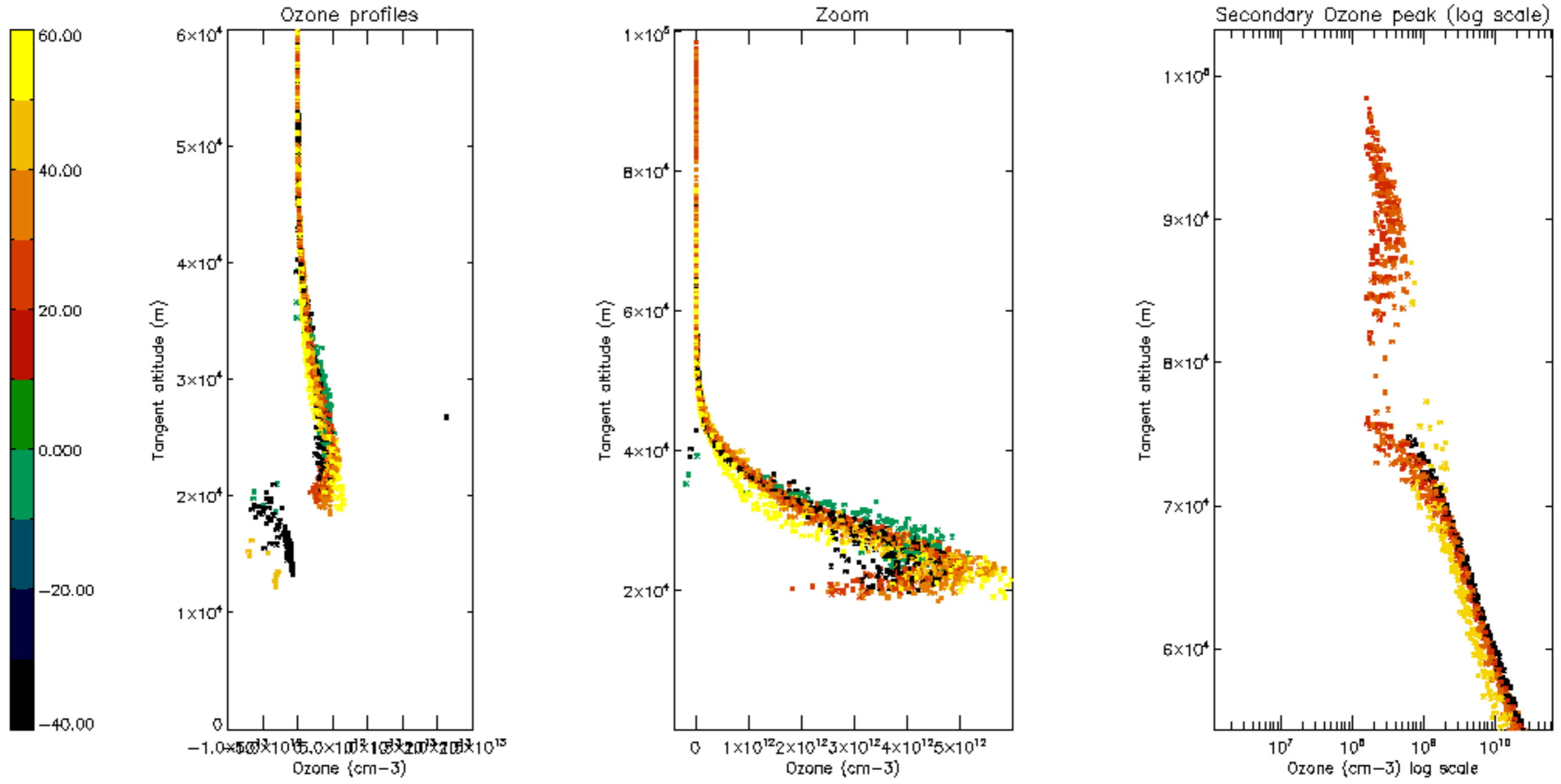


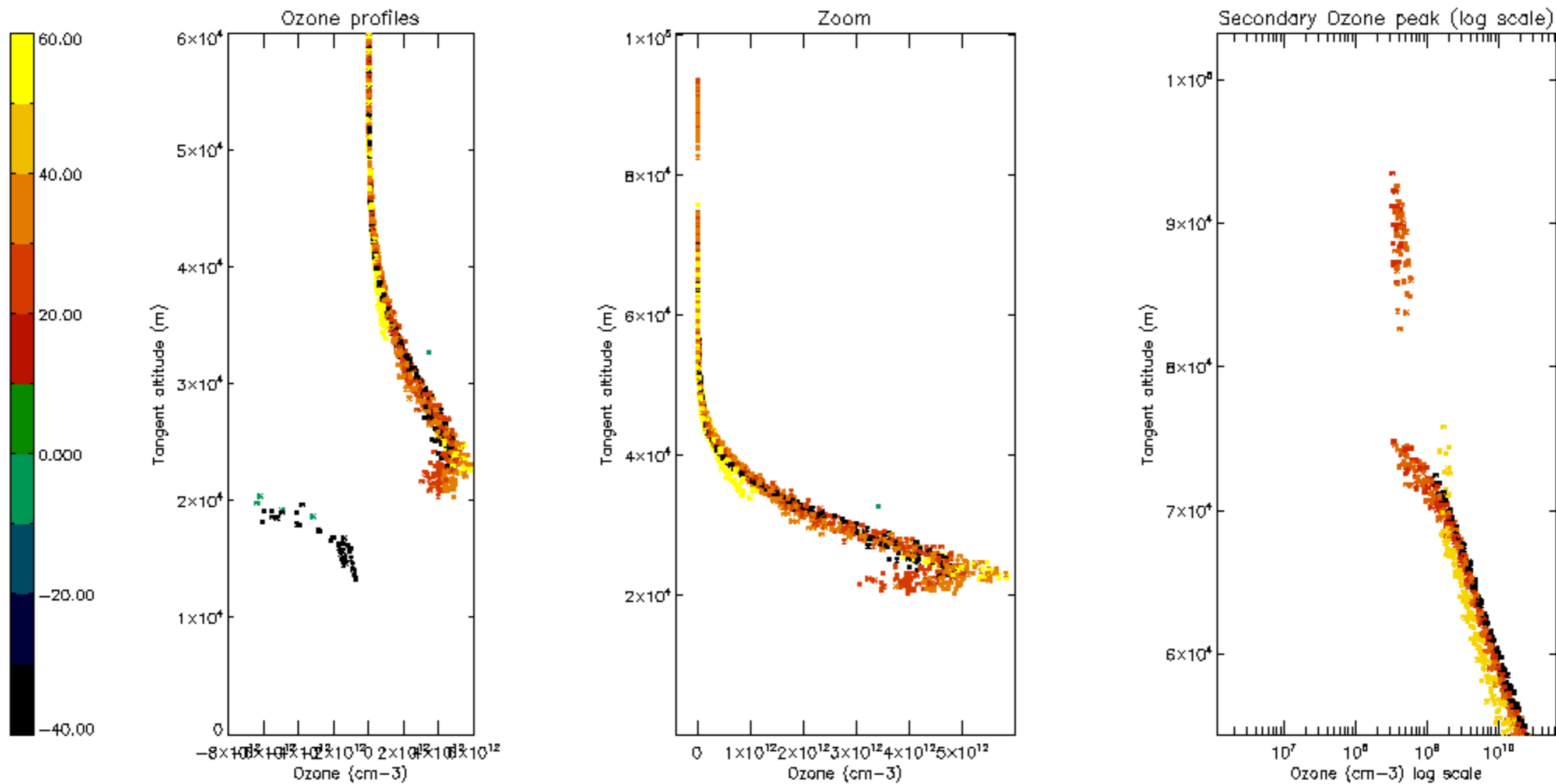
Percentage of saturation errors per profile

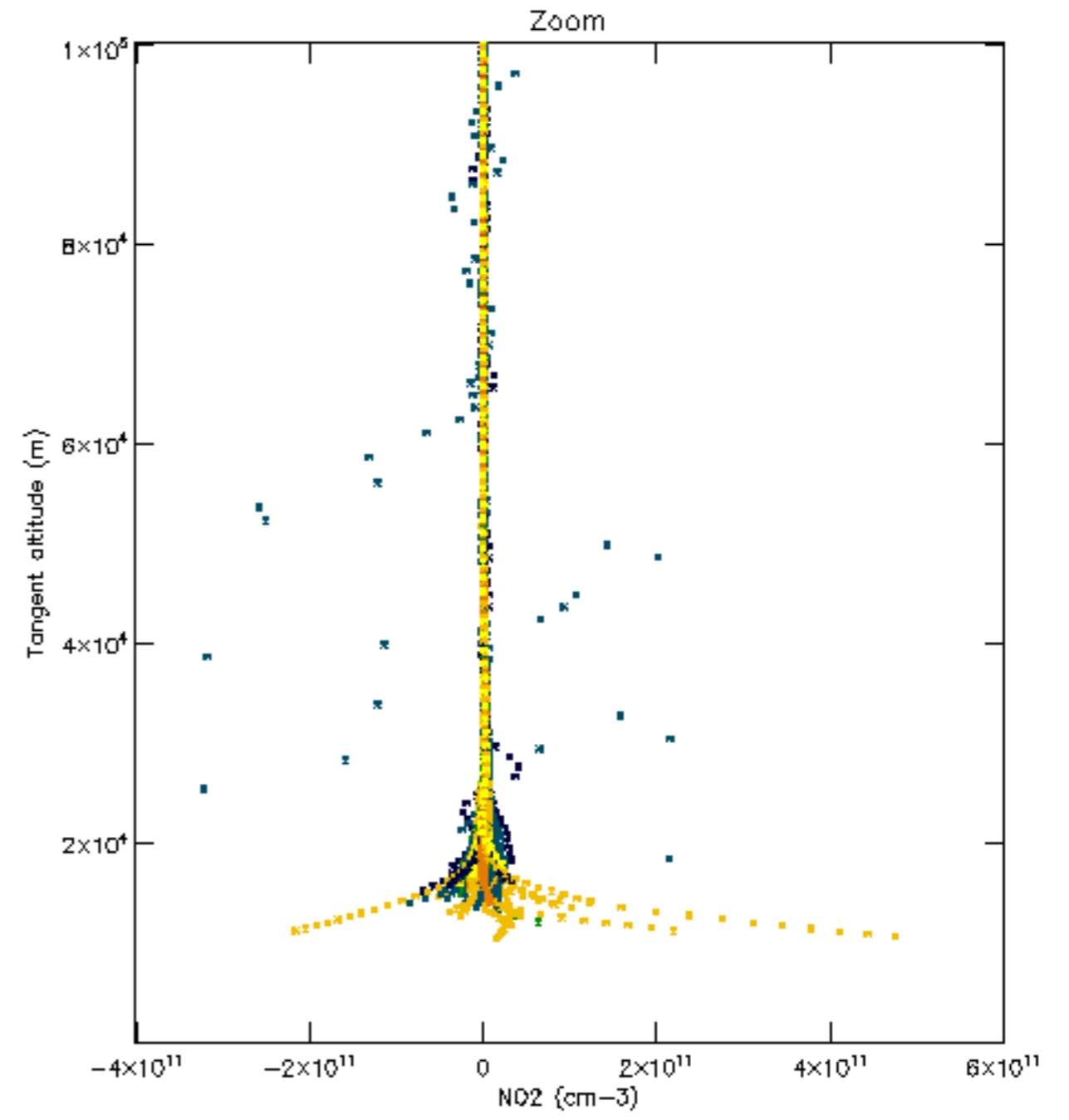
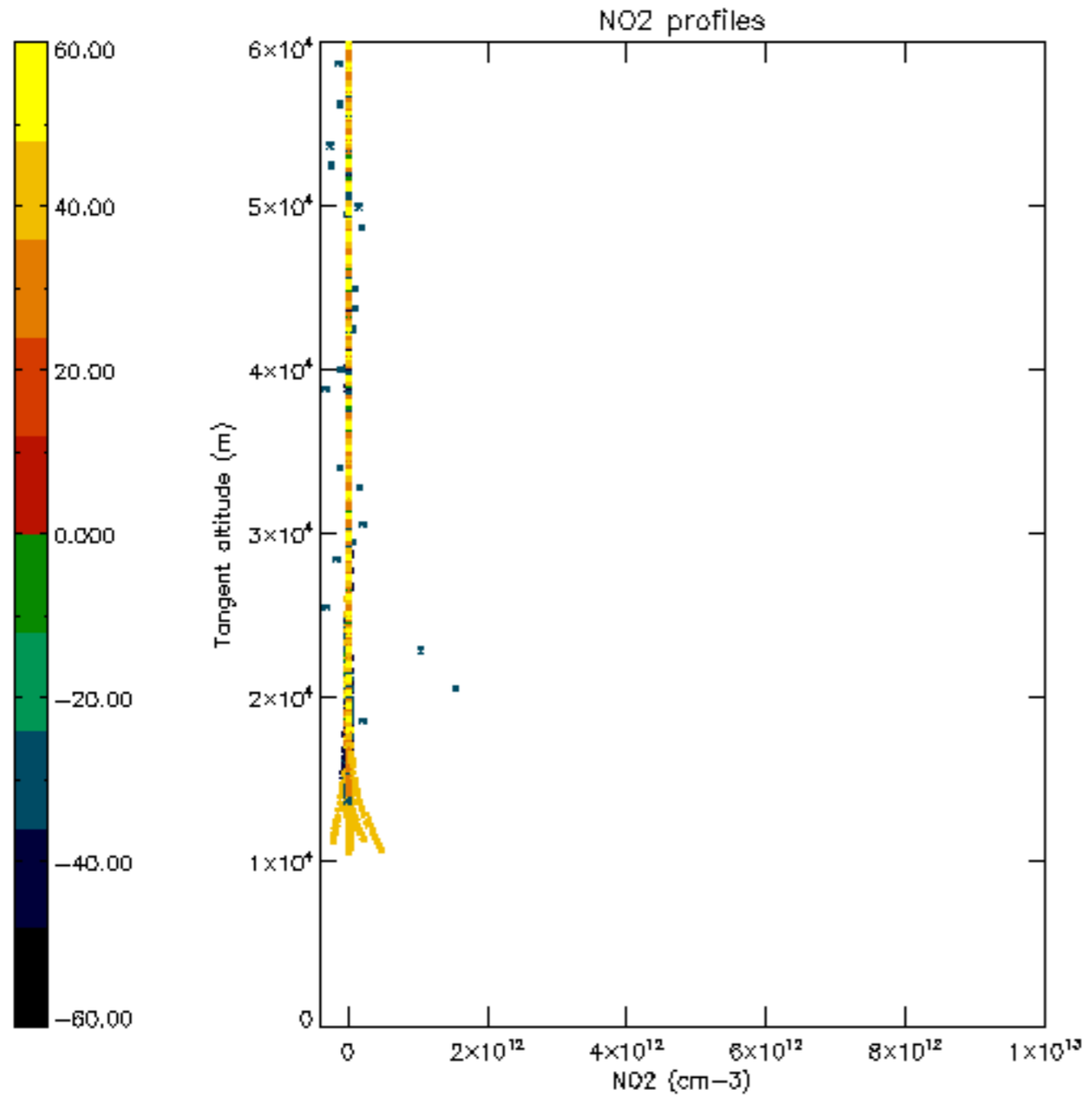


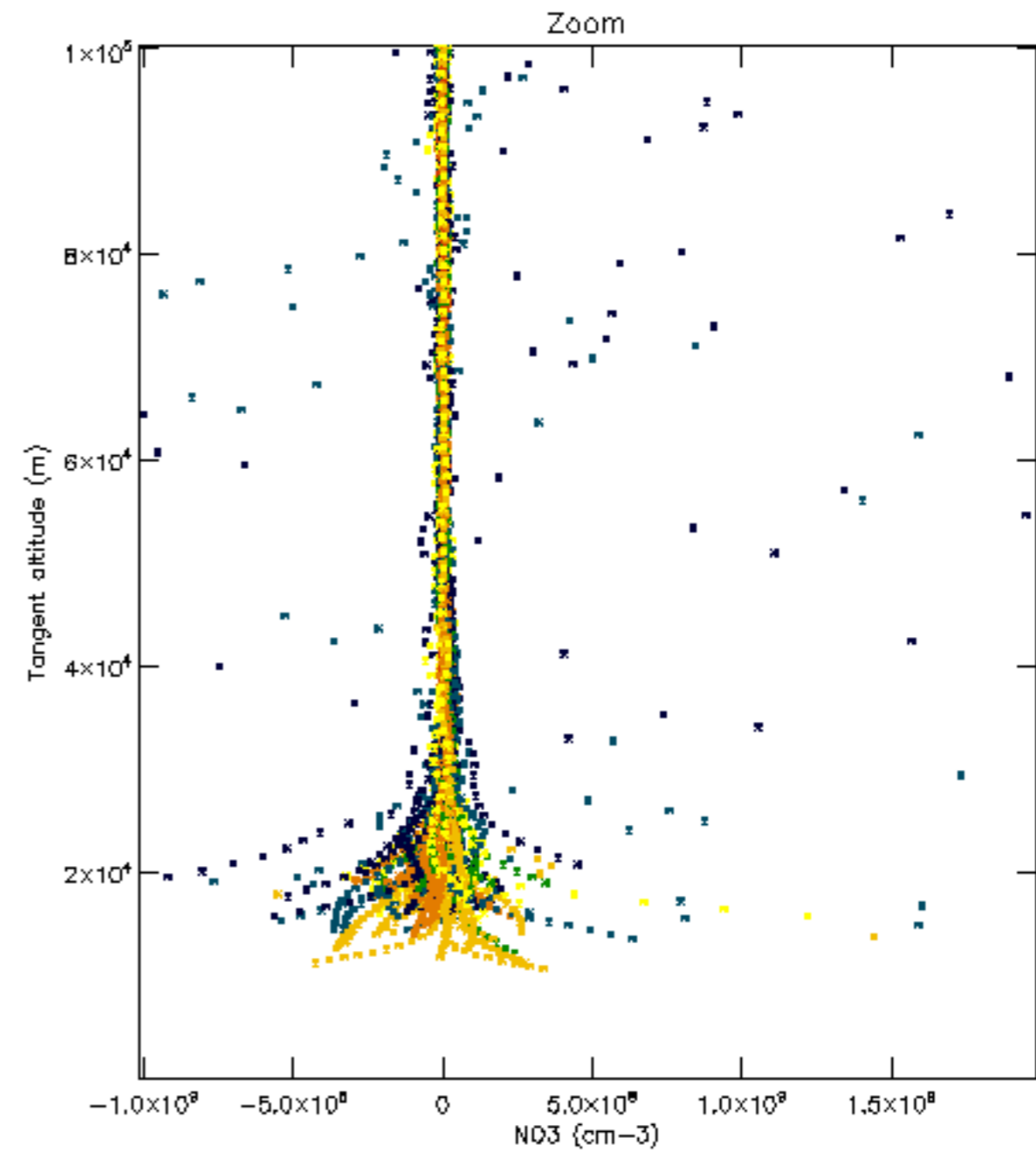
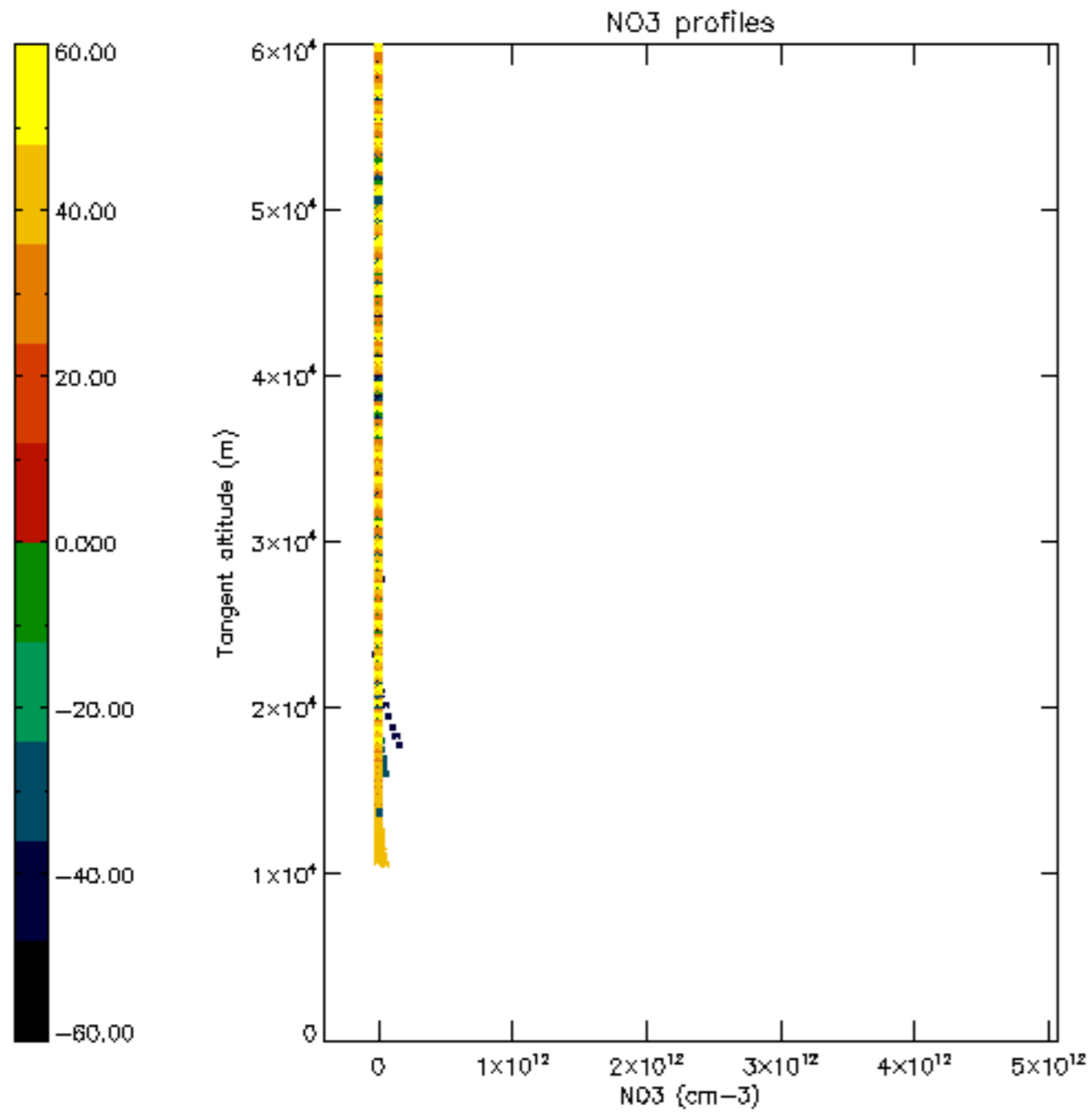


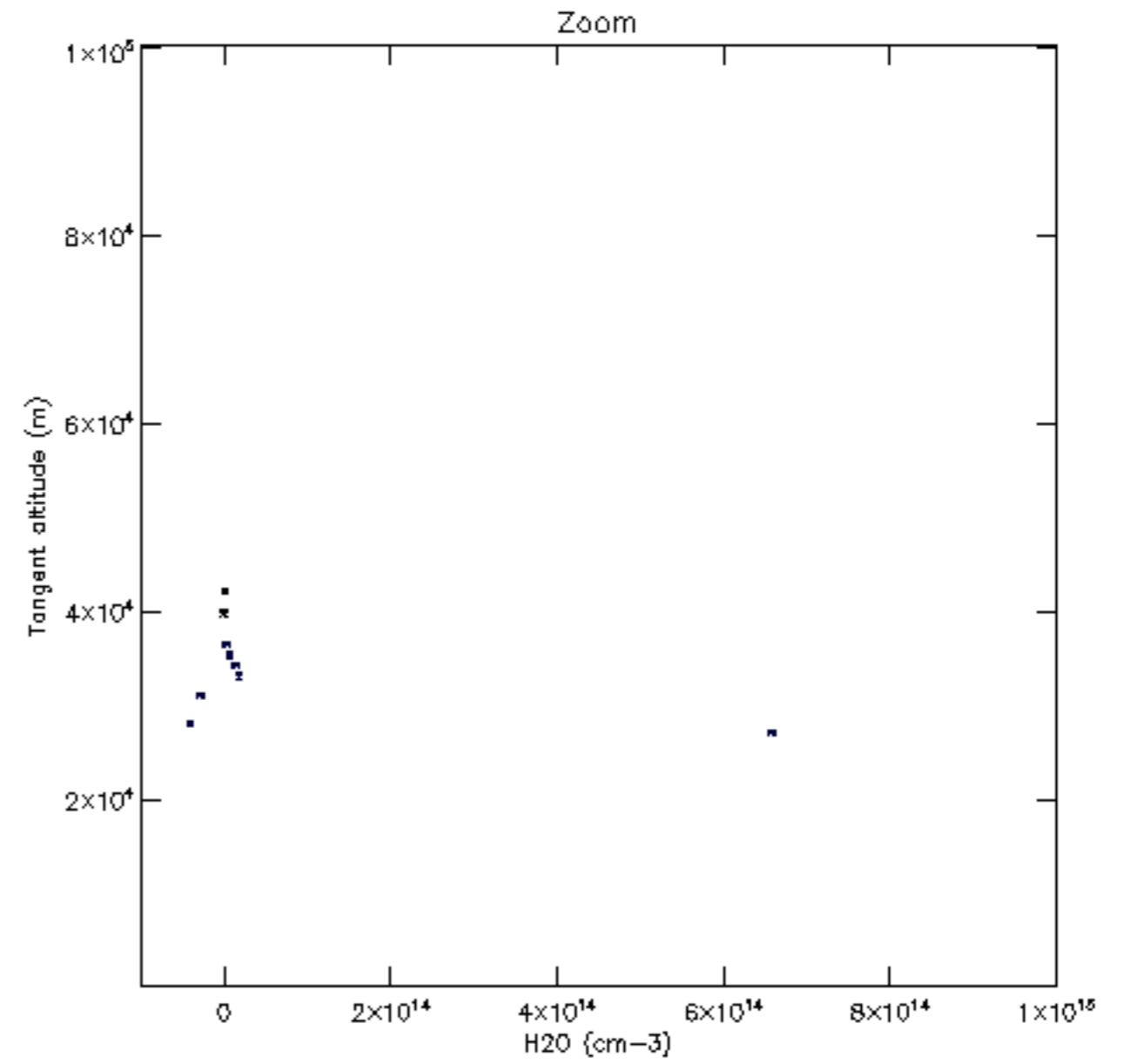
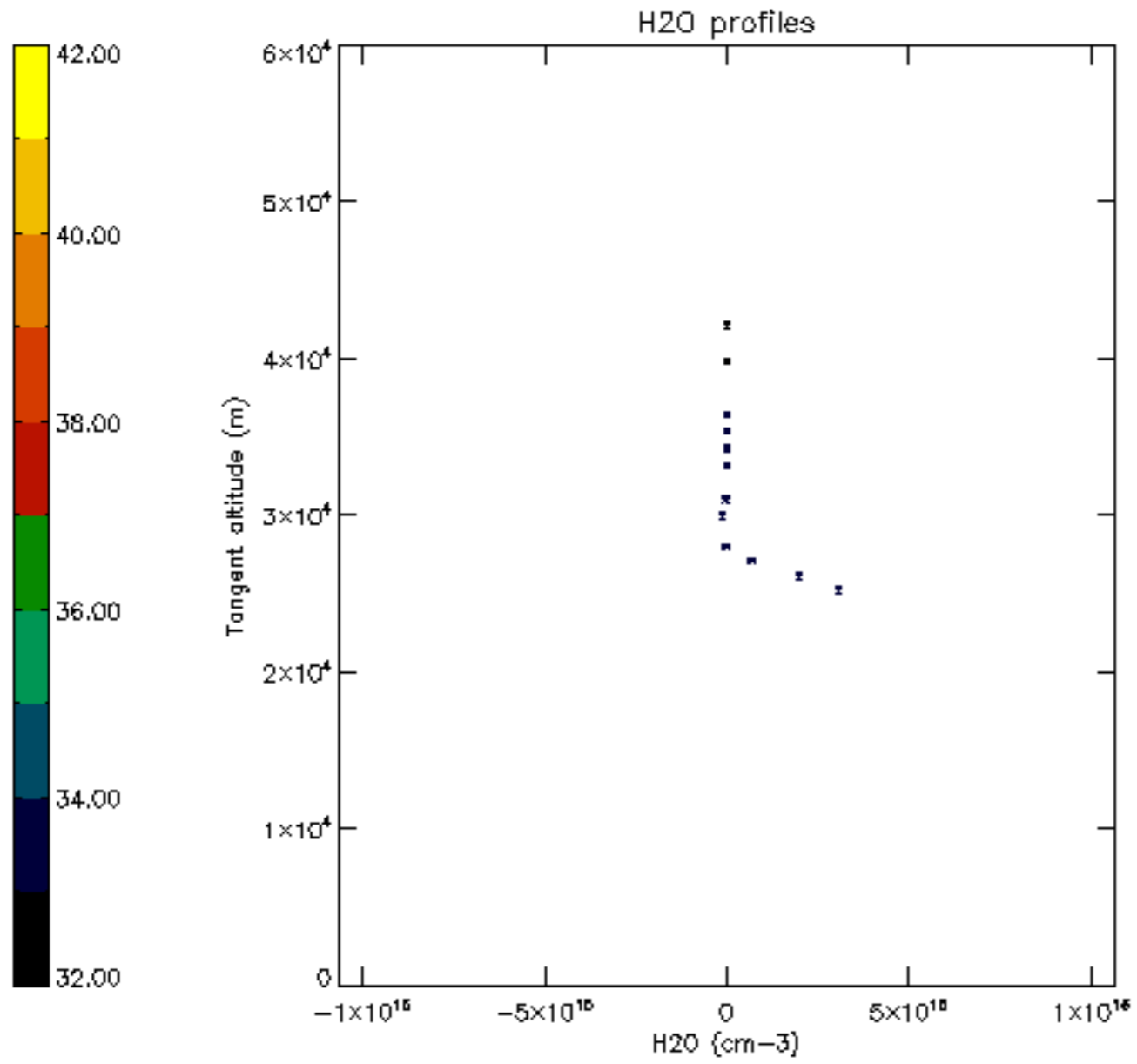


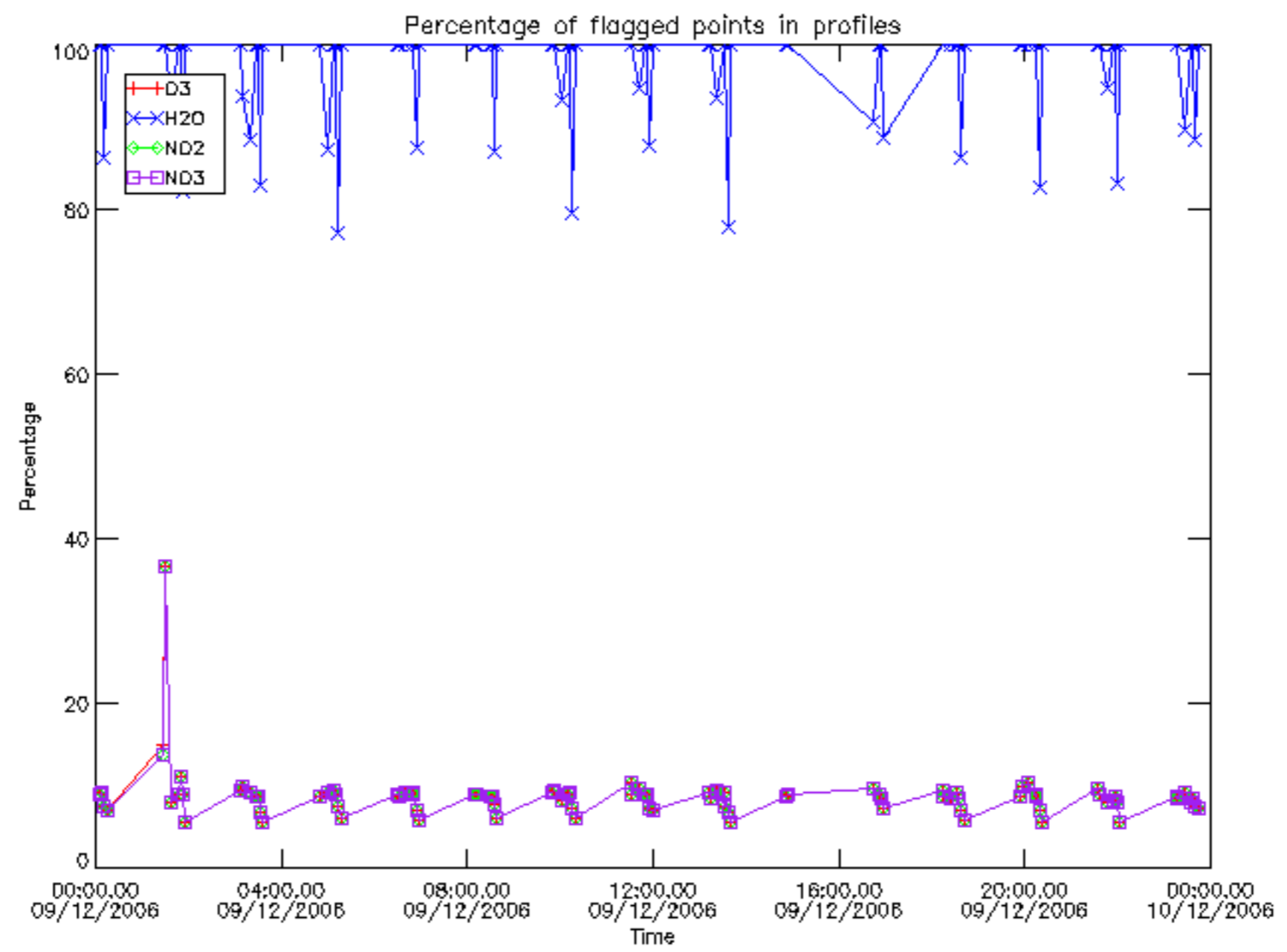




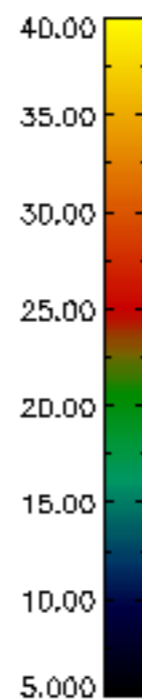
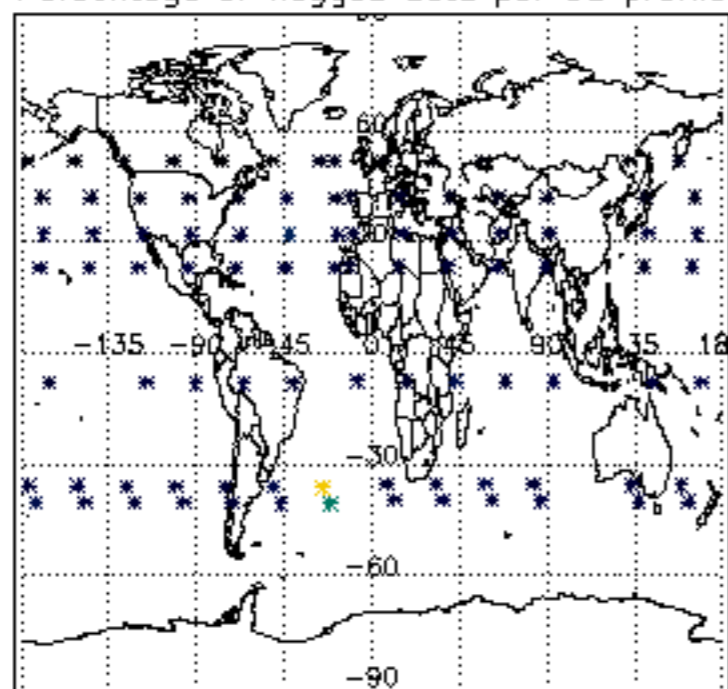




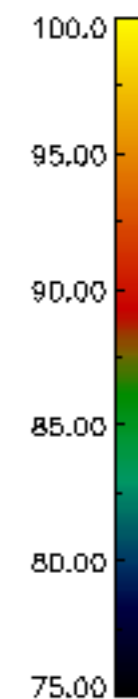
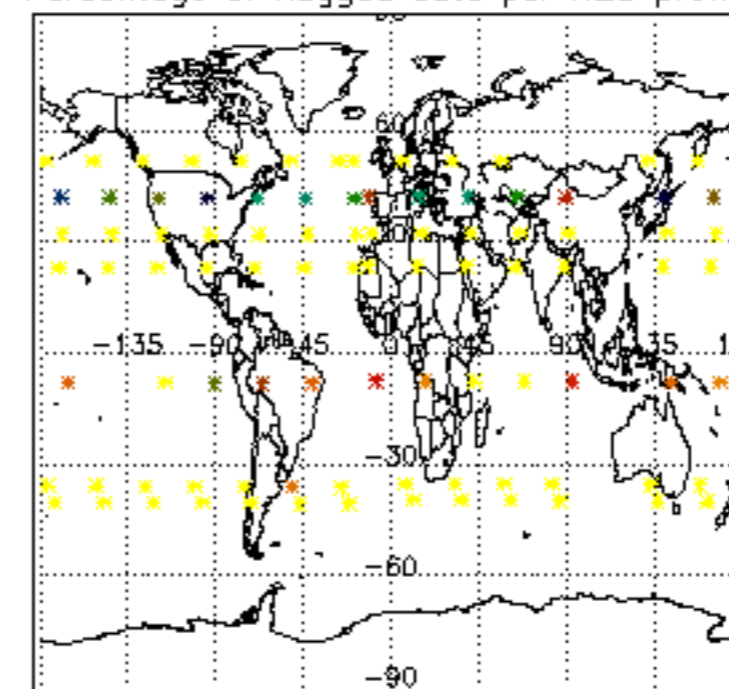




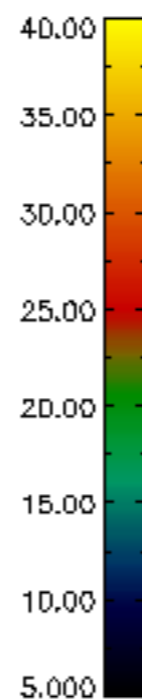
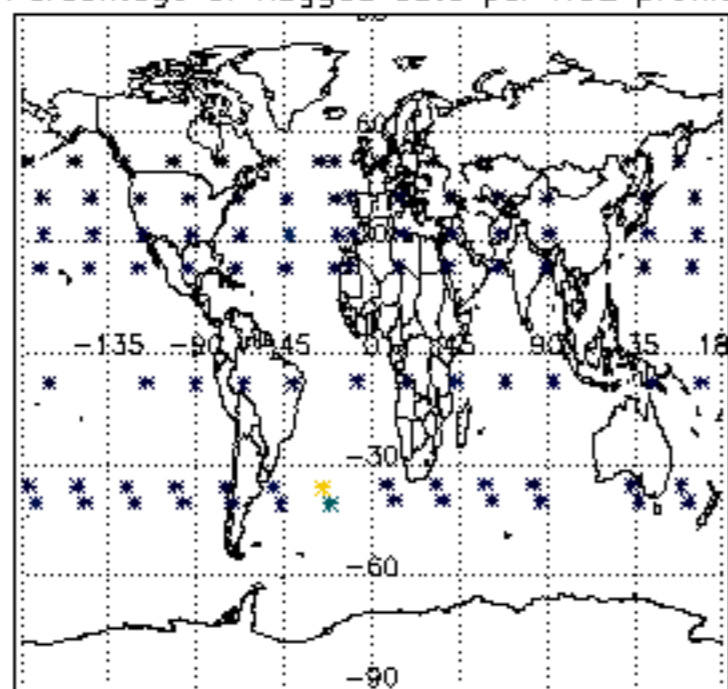
Percentage of flagged data per D3 profile



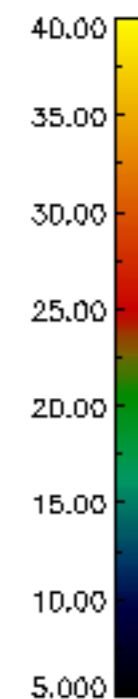
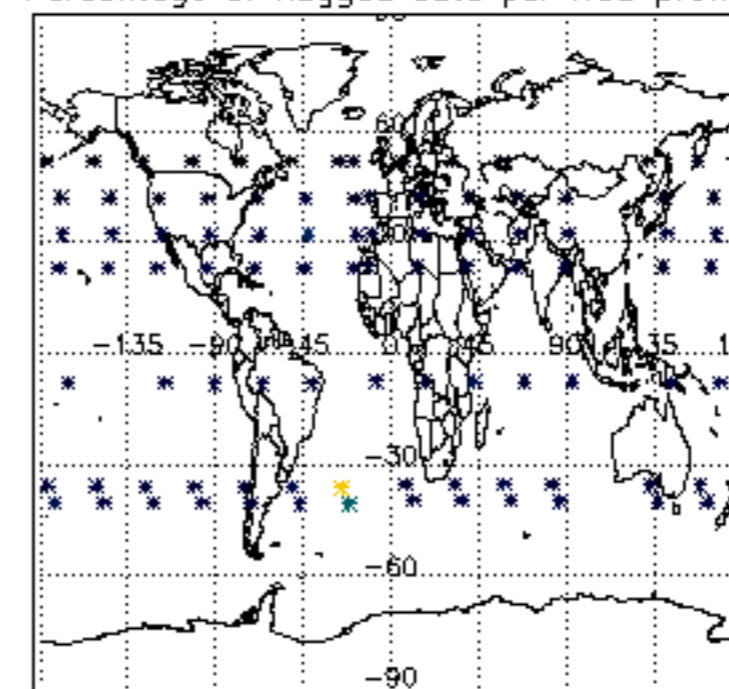
Percentage of flagged data per H2O profile

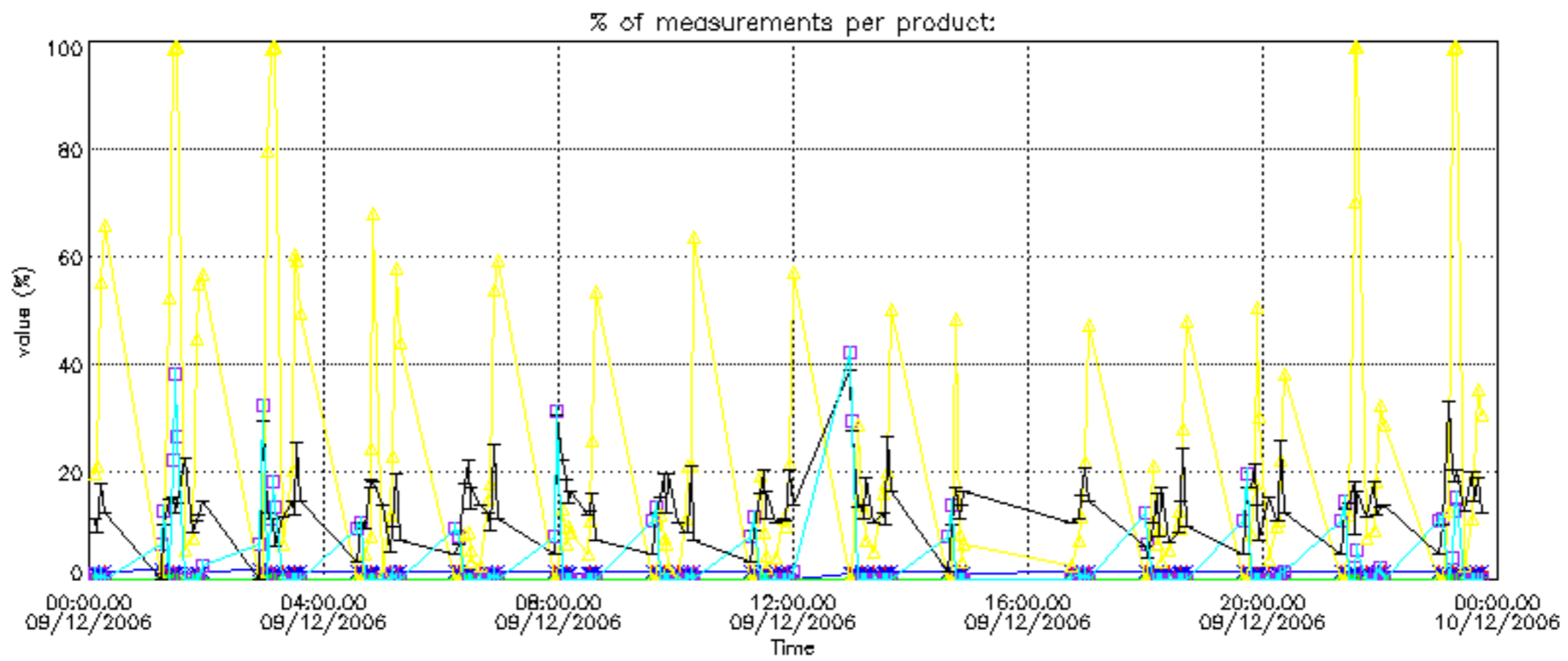


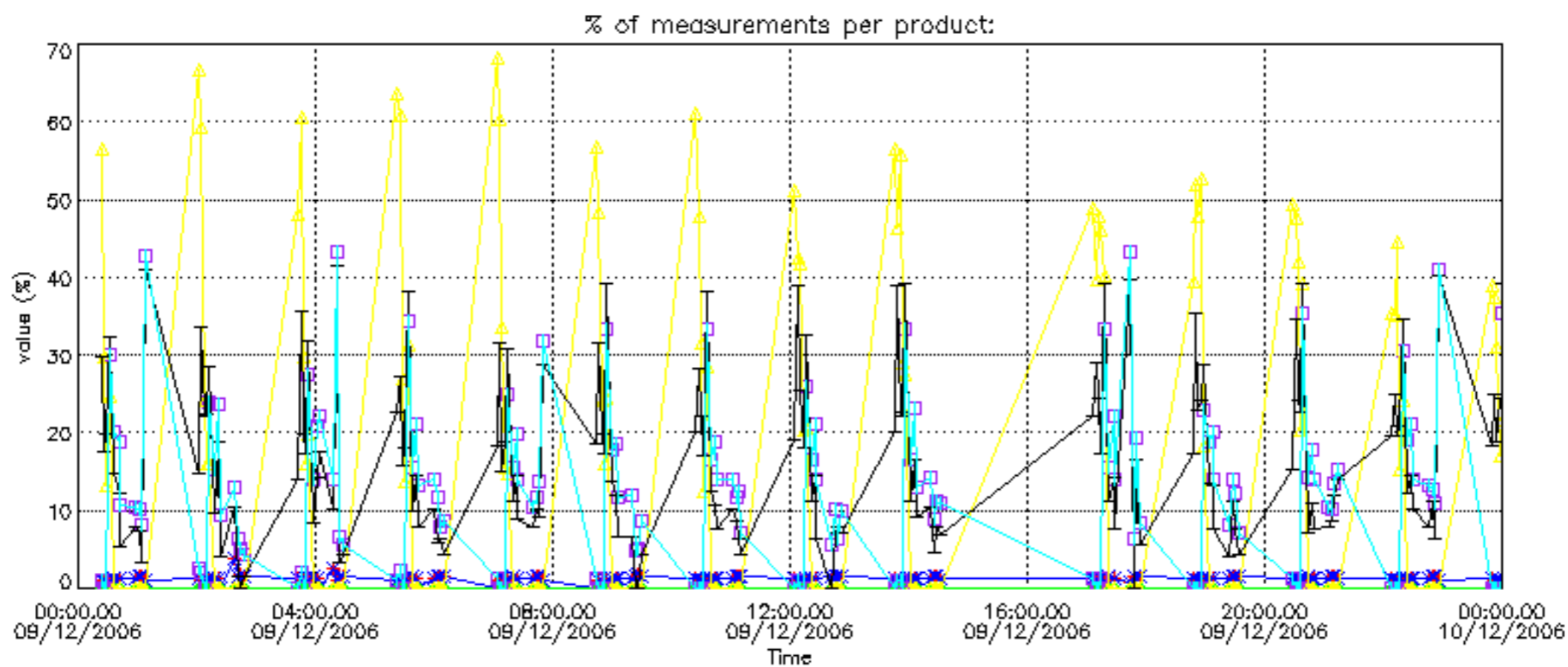
Percentage of flagged data per NO2 profile



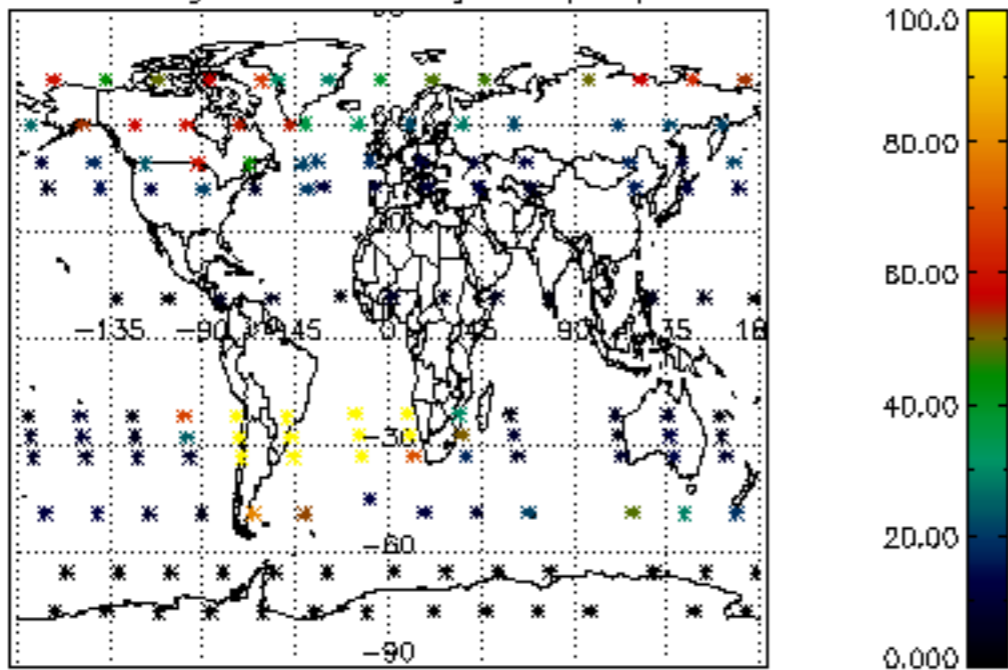
Percentage of flagged data per NO3 profile



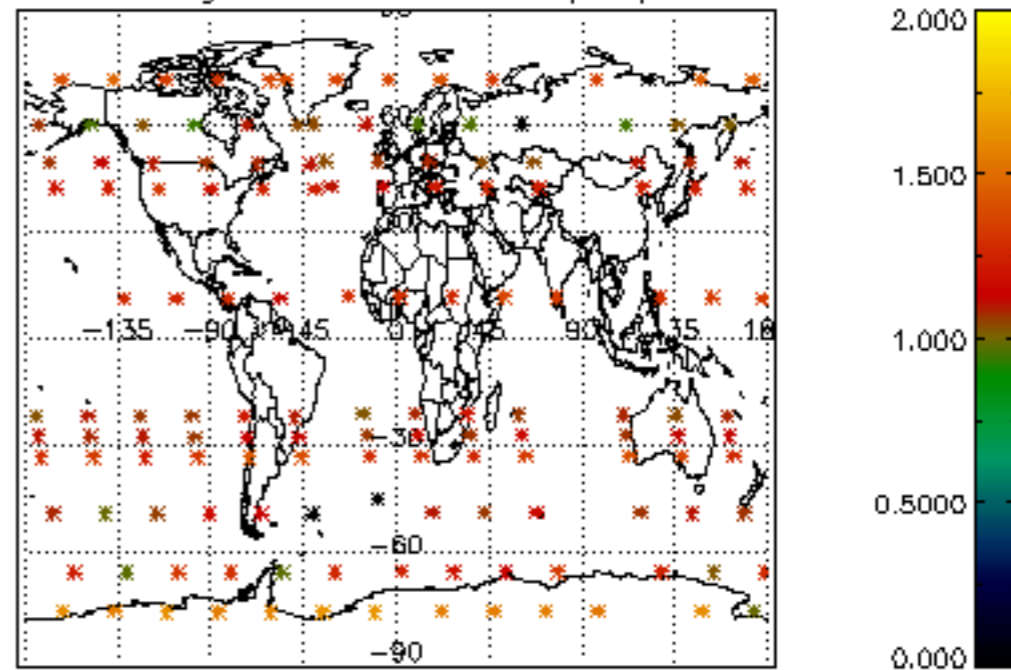




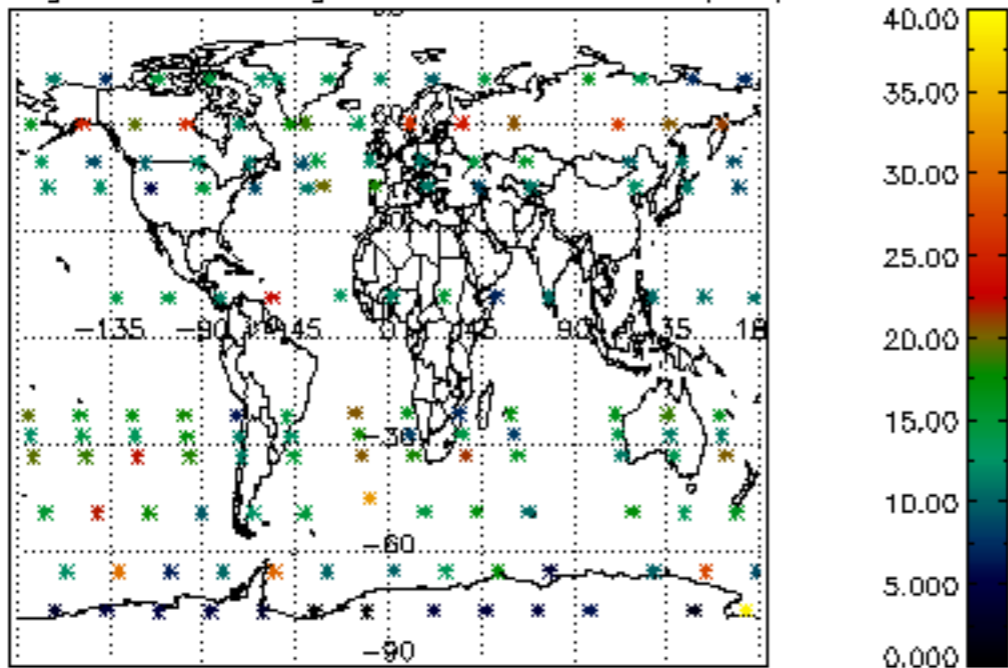
Percentage of cosmic ray hits per profile



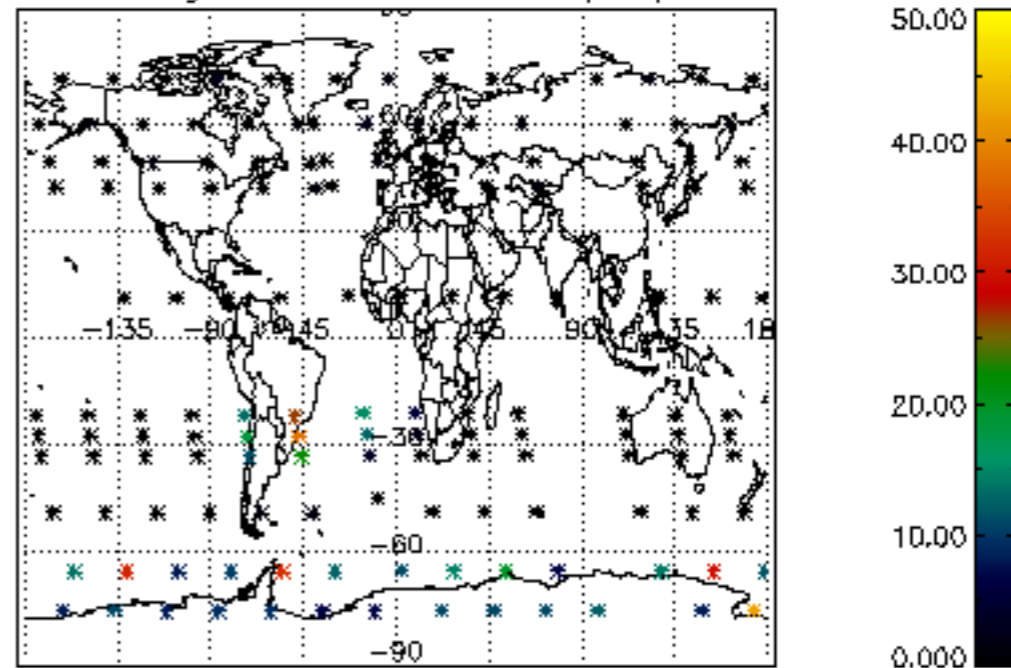
Percentage of datation errors per profile



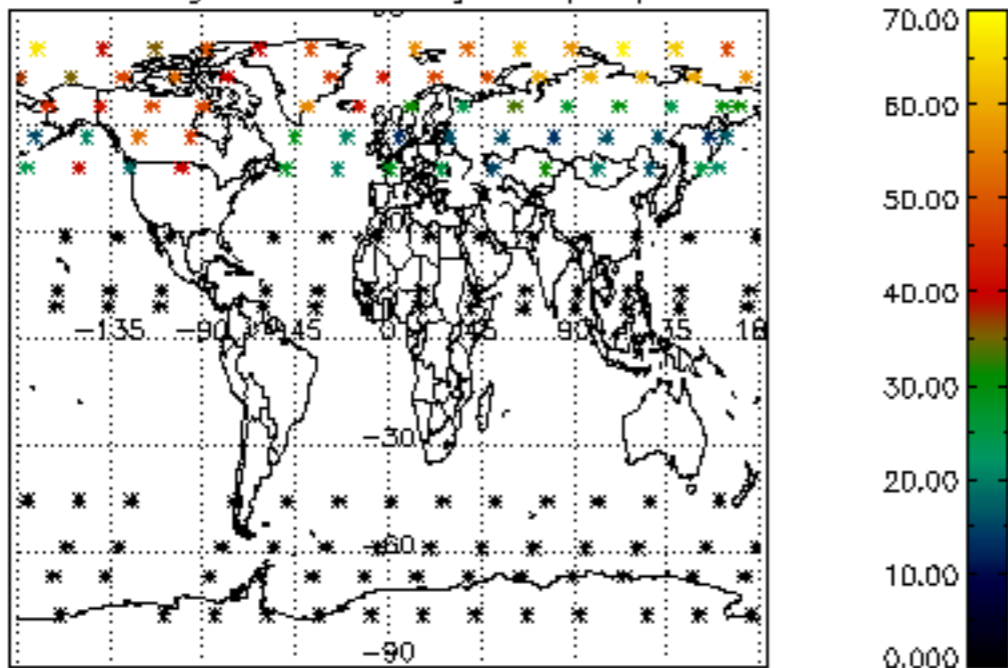
Percentage of star falling outside central band per profile



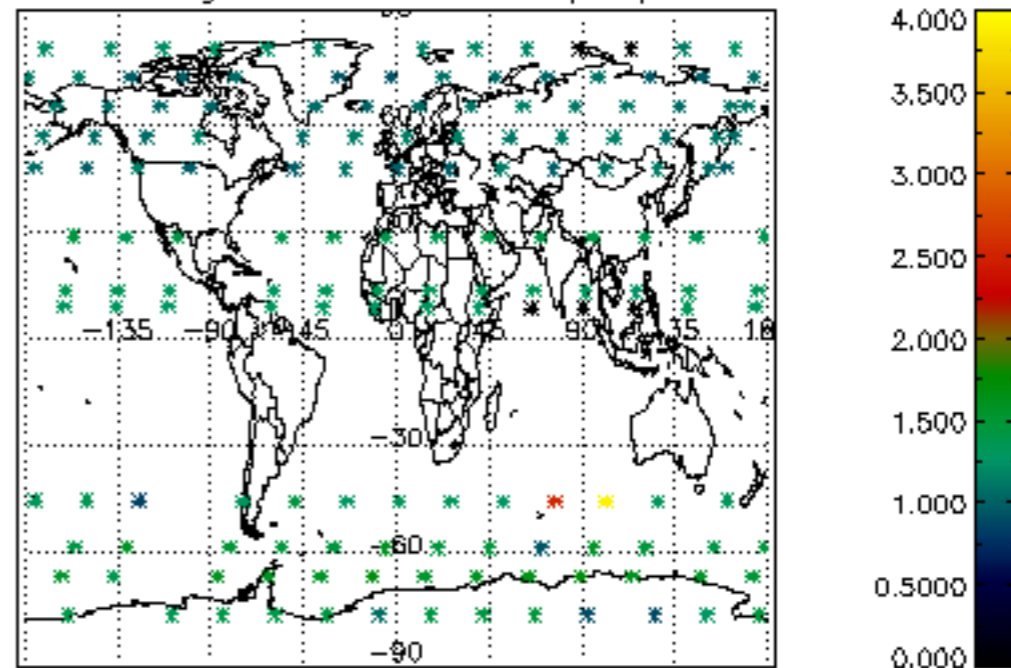
Percentage of saturation errors per profile



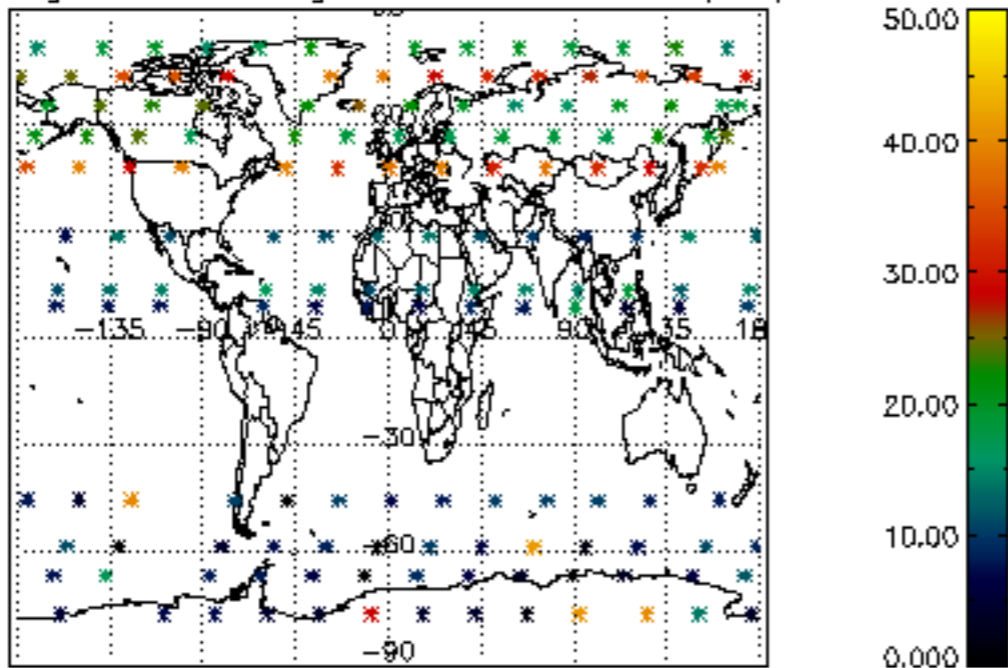
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

