

GOMOS Level 2 Daily Report

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

Item	Value
Time of report generation	17APR2013 17:35:37
Data source version	GOMOS/6.01
Start time of products	05-05-2002 (05MAY2002 00:00:00)
Stop time of products	06-05-2002 (06MAY2002 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	44
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

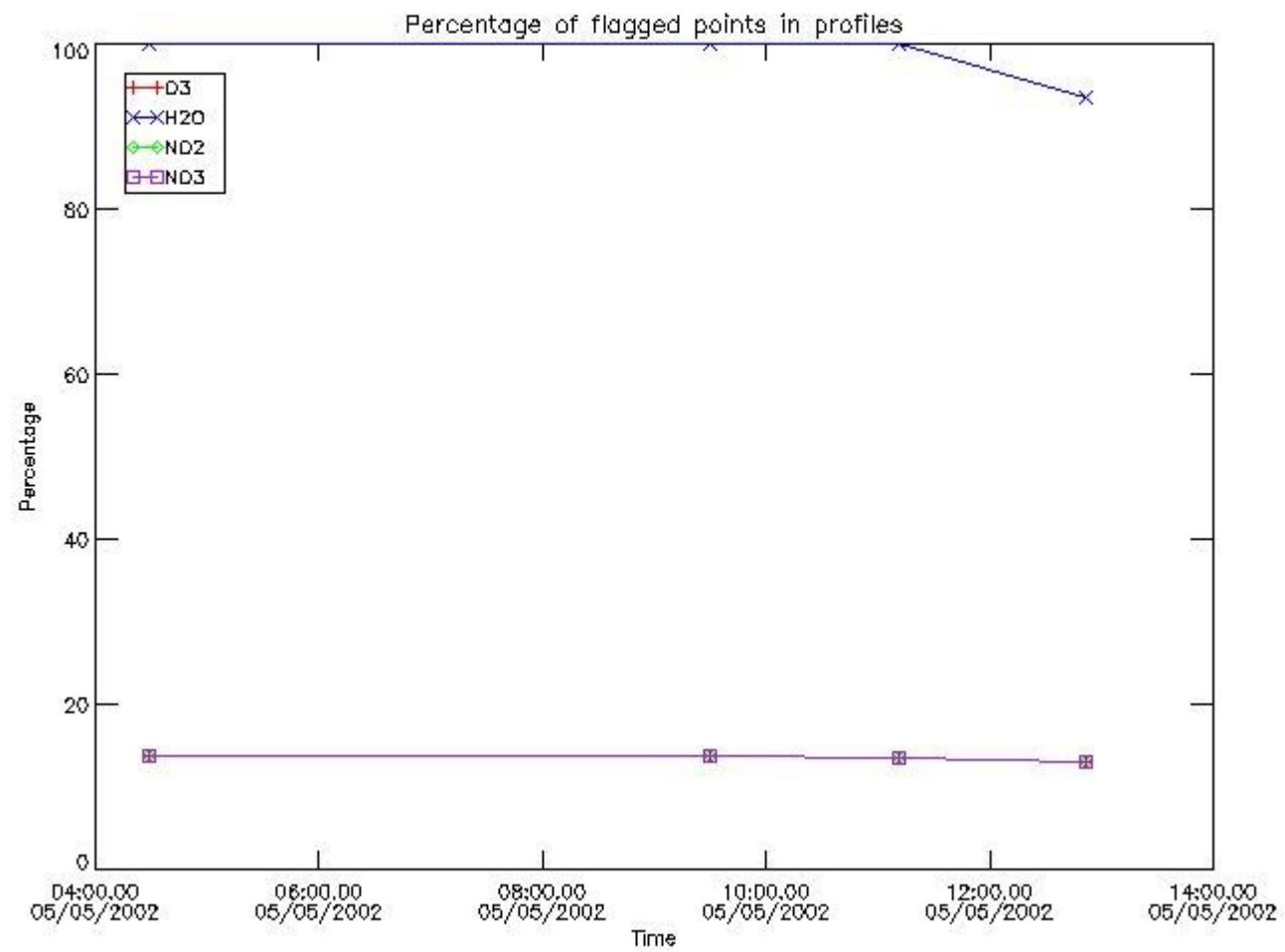
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20020505_042821_000000372005_00377_00932_0725.N1	05-MAY-2002 04:28:21	Dark	37.000	45	Alp Pav	1.9400	26000.	74	932	No
2	GOM_NL__2PRFIN20020505_043439_000000462005_00377_00932_0726.N1	05-MAY-2002 04:34:39	Straylight	46.000	43	Alp TrA	1.9100	4250.0	92	932	No
3	GOM_NL__2PRFIN20020505_043619_000000342005_00377_00932_0727.N1	05-MAY-2002 04:36:19	Straylight	33.500	145	Gam TrA	2.8720	10600.	67	932	No
4	GOM_NL__2PRFIN20020505_043759_000000492005_00377_00932_0728.N1	05-MAY-2002 04:37:59	Straylight	49.000	40	The Sco	1.8590	7100.0	98	932	No
5	GOM_NL__2PRFIN20020505_043948_000000552005_00377_00932_0729.N1	05-MAY-2002 04:39:48	Straylight	55.000	25	35Lam Sco	1.6200	28000.	110	932	No
6	GOM_NL__2PRFIN20020505_044217_000000352005_00377_00932_0730.N1	05-MAY-2002 04:42:17	Straylight	34.500	78	Alp Lup	2.3040	28000.	69	932	No
7	GOM_NL__2PRFIN20020505_044348_000000362005_00377_00932_0731.N1	05-MAY-2002 04:43:48	Straylight	35.500	81	Eta Cen	2.3560	28000.	71	932	No
8	GOM_NL__2PRFIN20020505_044523_000000512005_00377_00932_0732.N1	05-MAY-2002 04:45:23	Twilight_and_stray	50.500	136	23Tau Sco	2.8220	30000.	101	932	No
9	GOM_NL__2PRFIN20020505_044705_000000462005_00377_00932_0733.N1	05-MAY-2002 04:47:05	Twilight_and_stray	45.500	158	6Pi Sco	2.9060	28000.	91	932	No
10	GOM_NL__2PRFIN20020505_044921_000000572005_00377_00932_0734.N1	05-MAY-2002 04:49:21	Bright	56.500	97	8Bet1Sco	2.5610	30000.	113	932	No
11	GOM_NL__2PRFIN20020505_045119_000000392005_00377_00932_0735.N1	05-MAY-2002 04:51:19	Bright	38.500	122	9Alp2Lib	2.7470	9700.0	77	932	No
12	GOM_NL__2PRFIN20020505_045321_000000342005_00377_00932_0736.N1	05-MAY-2002 04:53:21	Bright	34.000	15	67Alp Vir	0.97600	28000.	68	932	No
13	GOM_NL__2PRFIN20020505_045628_000000332005_00377_00932_0737.N1	05-MAY-2002 04:56:28	Bright	33.000	121	29Gam Vir	2.7400	7200.0	66	932	No
14	GOM_NL__2PRFIN20020505_093010_000000372005_00380_00935_0728.N1	05-MAY-2002 09:30:10	Dark	37.000	45	Alp Pav	1.9400	26000.	74	935	No
15	GOM_NL__2PRFIN20020505_093628_000000352005_00380_00935_0729.N1	05-MAY-2002 09:36:28	Straylight	35.000	43	Alp TrA	1.9100	4250.0	70	935	No
16	GOM_NL__2PRFIN20020505_093808_000000332005_00380_00935_0730.N1	05-MAY-2002 09:38:08	Straylight	33.000	145	Gam TrA	2.8720	10600.	66	935	No
17	GOM_NL__2PRFIN20020505_093949_000000502005_00380_00935_0731.N1	05-MAY-2002 09:39:49	Straylight	50.000	40	The Sco	1.8590	7100.0	100	935	No
18	GOM_NL__2PRFIN20020505_094139_000000552005_00380_00935_0732.N1	05-MAY-2002 09:41:39	Straylight	54.500	25	35Lam Sco	1.6200	28000.	109	935	No
19	GOM_NL__2PRFIN20020505_094405_000000372005_00380_00935_0733.N1	05-MAY-2002 09:44:05	Straylight	36.500	78	Alp Lup	2.3040	28000.	73	935	No
20	GOM_NL__2PRFIN20020505_094537_000000372005_00380_00935_0734.N1	05-MAY-2002 09:45:37	Straylight	37.000	81	Eta Cen	2.3560	28000.	74	935	No
21	GOM_NL__2PRFIN20020505_094713_000000502005_00380_00935_0735.N1	05-MAY-2002 09:47:13	Twilight_and_stray	50.000	136	23Tau Sco	2.8220	30000.	100	935	No
22	GOM_NL__2PRFIN20020505_094853_000000482005_00380_00935_0736.N1	05-MAY-2002 09:48:53	Twilight_and_stray	48.000	158	6Pi Sco	2.9060	28000.	96	935	No
23	GOM_NL__2PRFIN20020505_095109_000000592005_00380_00935_0737.N1	05-MAY-2002 09:51:09	Bright	58.500	97	8Bet1Sco	2.5610	30000.	117	935	No
24	GOM_NL__2PRFIN20020505_095307_000000212005_00380_00935_0738.N1	05-MAY-2002 09:53:07	Twilight_and_stray	21.000	122	9Alp2Lib	2.7470	9700.0	42	935	No
25	GOM_NL__2PRFIN20020505_111047_000000382005_00381_00936_0748.N1	05-MAY-2002 11:10:47	Dark	37.500	45	Alp Pav	1.9400	26000.	75	936	No
26	GOM_NL__2PRFIN20020505_111704_000000462005_00381_00936_0749.N1	05-MAY-2002 11:17:04	Straylight	45.500	43	Alp TrA	1.9100	4250.0	91	936	No
27	GOM_NL__2PRFIN20020505_111844_000000342005_00381_00936_0750.N1	05-MAY-2002 11:18:44	Straylight	33.500	145	Gam TrA	2.8720	10600.	67	936	No
28	GOM_NL__2PRFIN20020505_112026_000000522005_00381_00936_0751.N1	05-MAY-2002 11:20:26	Straylight	51.500	40	The Sco	1.8590	7100.0	103	936	No
29	GOM_NL__2PRFIN20020505_112216_000000562005_00381_00936_0752.N1	05-MAY-2002 11:22:16	Straylight	56.000	25	35Lam Sco	1.6200	28000.	112	936	No
30	GOM_NL__2PRFIN20020505_112441_000000362005_00381_00936_0753.N1	05-MAY-2002 11:24:41	Straylight	36.000	78	Alp Lup	2.3040	28000.	72	936	No
31	GOM_NL__2PRFIN20020505_112613_000000362005_00381_00936_0754.N1	05-MAY-2002 11:26:13	Straylight	35.500	81	Eta Cen	2.3560	28000.	71	936	No
32	GOM_NL__2PRFIN20020505_112749_000000502005_00381_00936_0755.N1	05-MAY-2002 11:27:49	Twilight_and_stray	49.500	136	23Tau Sco	2.8220	30000.	99	936	No
33	GOM_NL__2PRFIN20020505_112929_000000482005_00381_00936_0756.N1	05-MAY-2002 11:29:29	Twilight_and_stray	47.500	158	6Pi Sco	2.9060	28000.	95	936	No
34	GOM_NL__2PRFIN20020505_113145_000000362005_00381_00936_0757.N1	05-MAY-2002 11:31:45	Bright	35.500	97	8Bet1Sco	2.5610	30000.	71	936	No
35	GOM_NL__2PRFIN20020505_125123_000000392005_00382_00937_0748.N1	05-MAY-2002 12:51:23	Dark	39.000	45	Alp Pav	1.9400	26000.	78	937	No
36	GOM_NL__2PRFIN20020505_125740_000000442005_00382_00937_0749.N1	05-MAY-2002 12:57:40	Straylight	44.000	43	Alp TrA	1.9100	4250.0	88	937	No
37	GOM_NL__2PRFIN20020505_125920_000000342005_00382_00937_0750.N1	05-MAY-2002 12:59:20	Straylight	33.500	145	Gam TrA	2.8720	10600.	67	937	No
38	GOM_NL__2PRFIN20020505_130103_000000502005_00382_00937_0751.N1	05-MAY-2002 13:01:03	Straylight	49.500	40	The Sco	1.8590	7100.0	99	937	No
39	GOM_NL__2PRFIN20020505_130252_000000552005_00382_00937_0752.N1	05-MAY-2002 13:02:52	Straylight	55.000	25	35Lam Sco	1.6200	28000.	110	937	No
40	GOM_NL__2PRFIN20020505_130518_000000382005_00382_00937_0753.N1	05-MAY-2002 13:05:18	Straylight	38.000	78	Alp Lup	2.3040	28000.	76	937	No
41	GOM_NL__2PRFIN20020505_130650_000000352005_00382_00937_0754.N1	05-MAY-2002 13:06:50	Straylight	35.000	81	Eta Cen	2.3560	28000.	70	937	No
42	GOM_NL__2PRFIN20020505_130826_000000512005_00382_00937_0755.N1	05-MAY-2002 13:08:26	Twilight_and_stray	50.500	136	23Tau Sco	2.8220	30000.	101	937	No

43	GOM_NL__2PRFIN20020505_131006_000000462005_00382_00937_0756.N1	05-MAY-2002 13:10:06	Twilight_and_stray	45.500	158	6Pi Sco	2.9060	28000.	91	937	No
44	GOM_NL__2PRFIN20020505_131221_000000052005_00382_00937_0757.N1	05-MAY-2002 13:12:21	Straylight	4.5000	97	8Bet1Sco	2.5610	30000.	9	937	No

3. Quality information per product

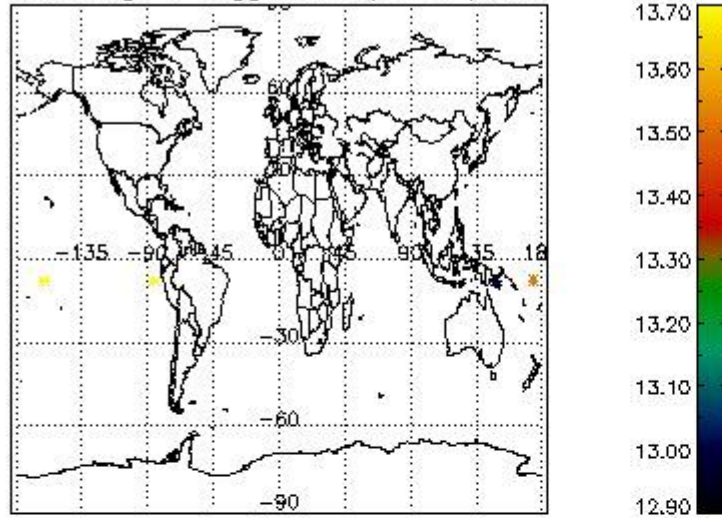
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

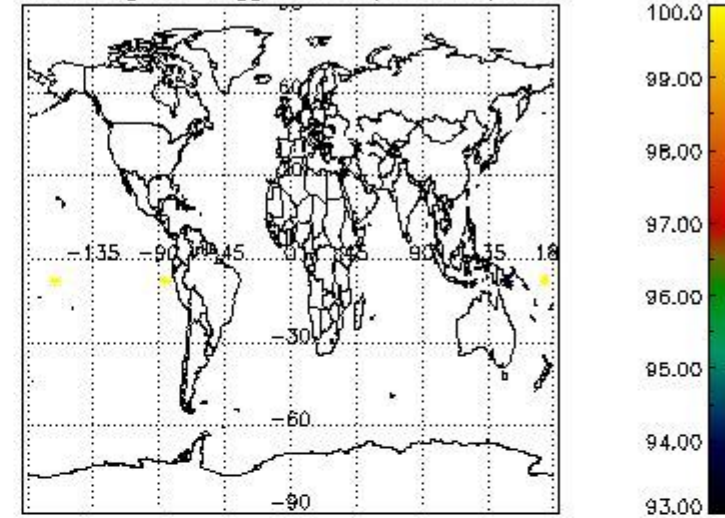


3.2 Plot quality information per product (world map)

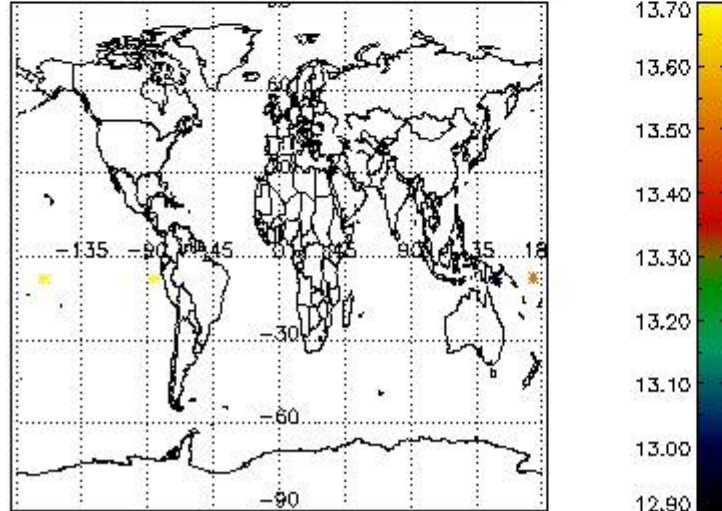
Percentage of flagged data per O3 profile



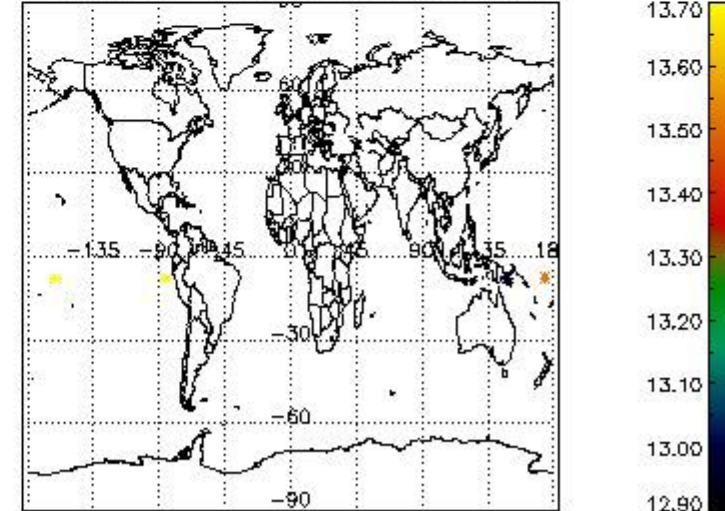
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

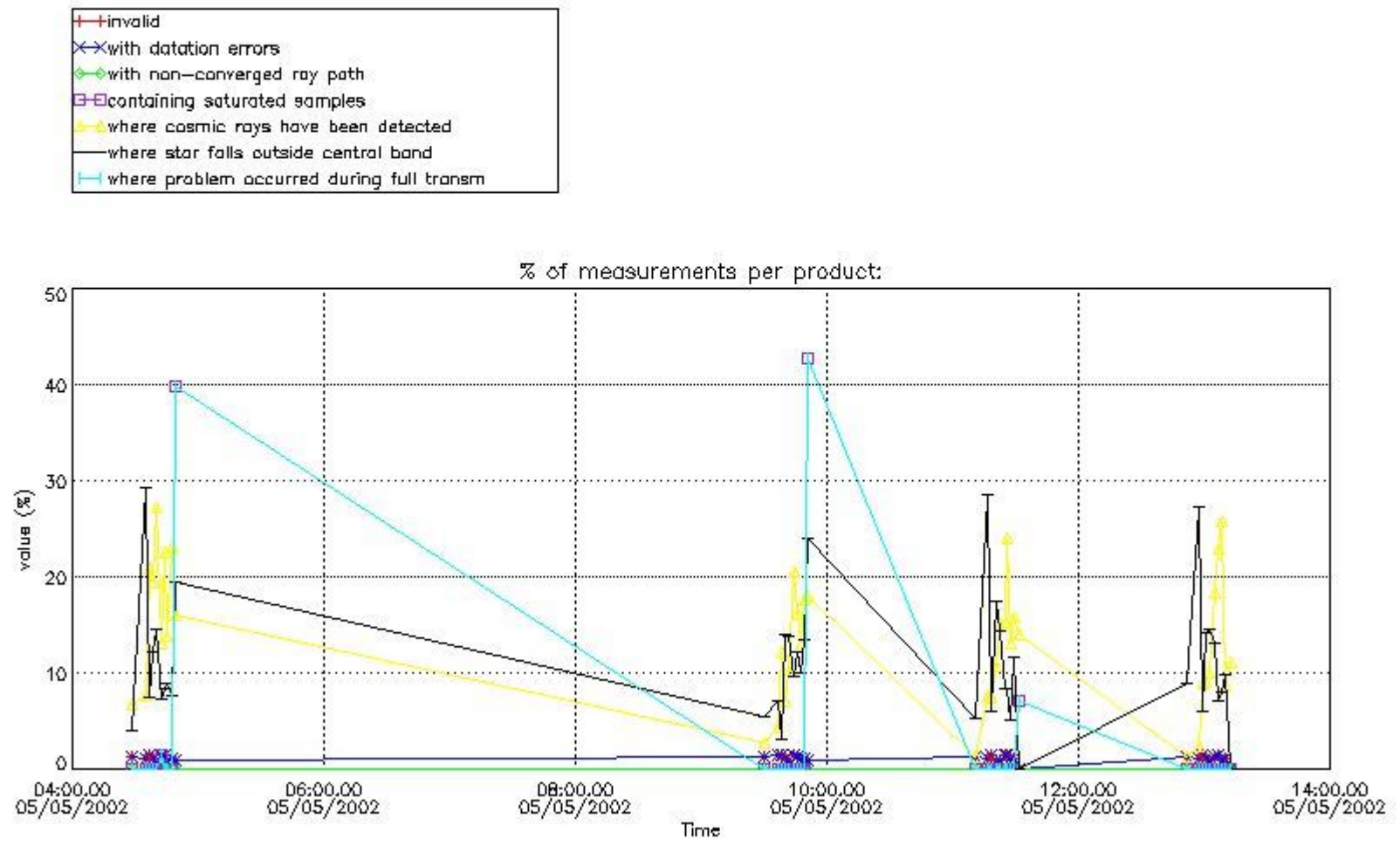


4. Level 1 quality information per product

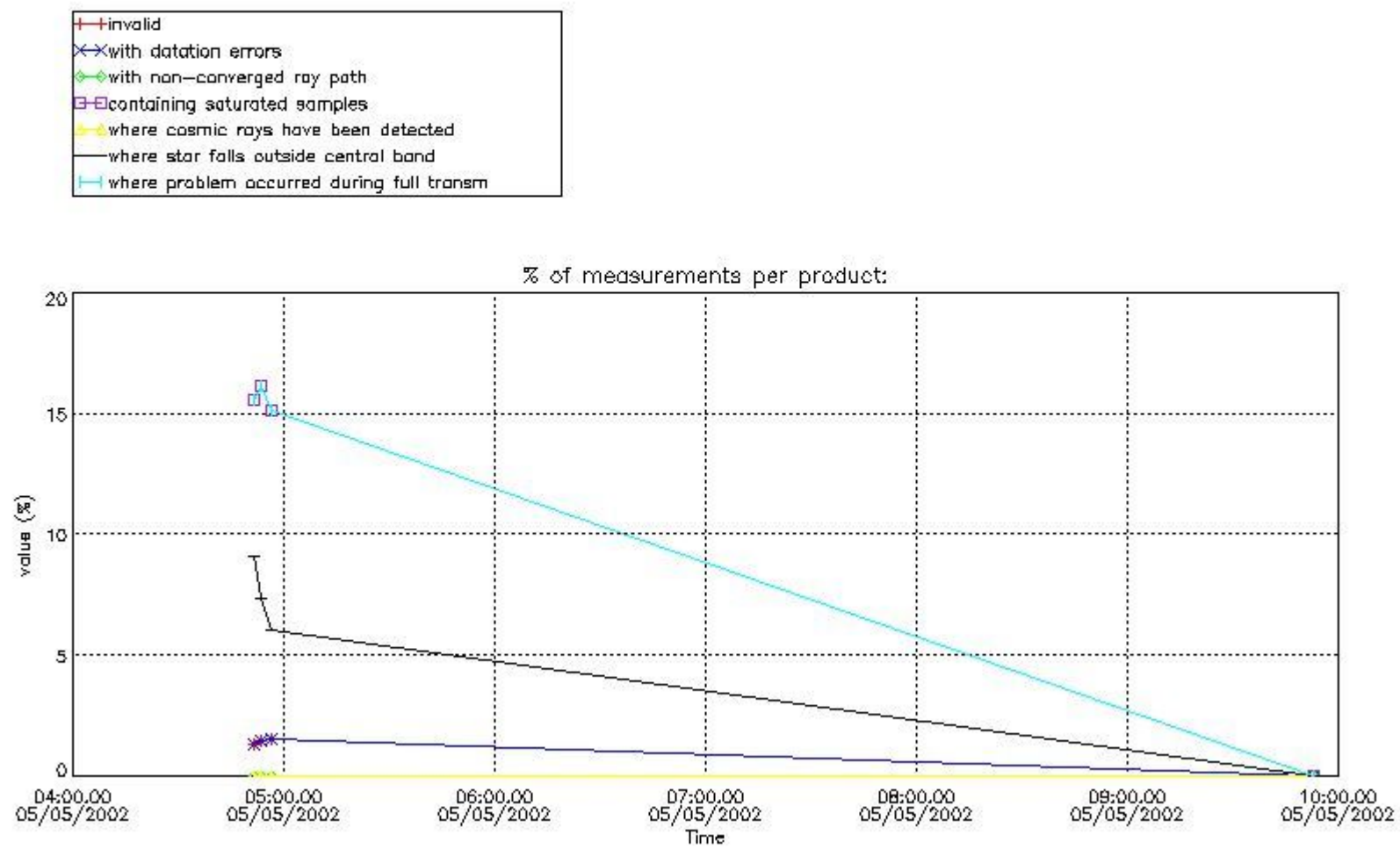
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



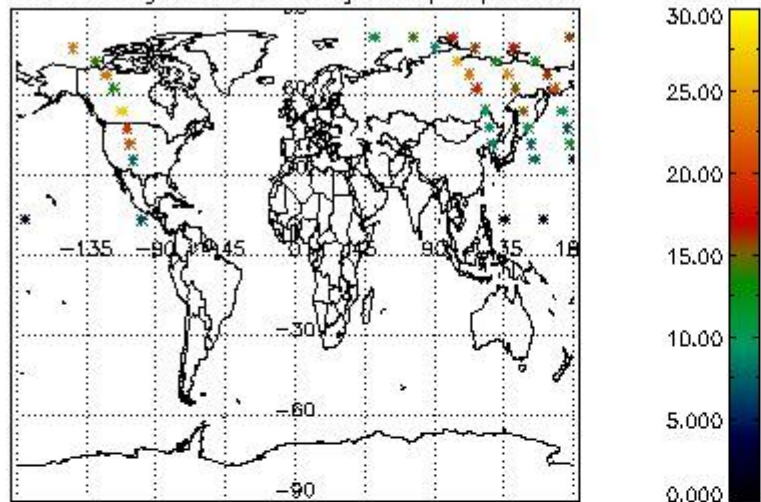
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



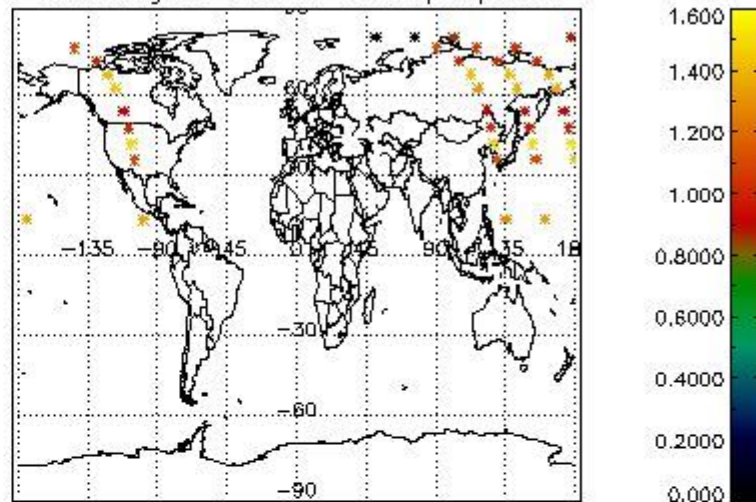
4.2 Plot quality information per product coming from level 1b processing (world map)

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

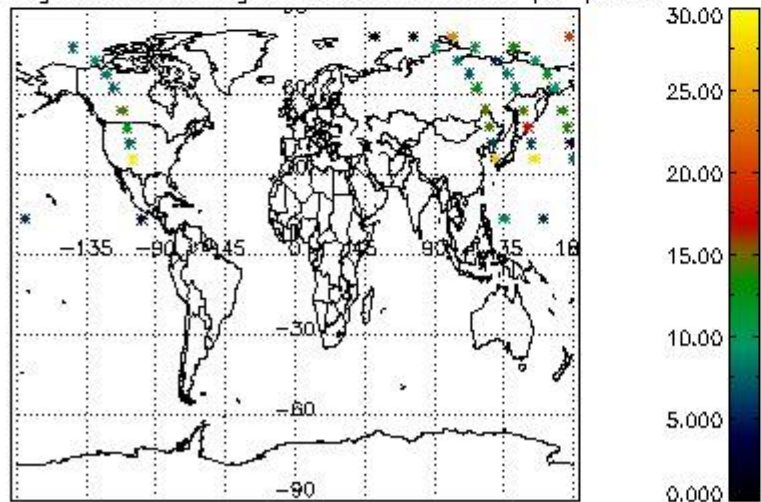
Percentage of cosmic ray hits per profile



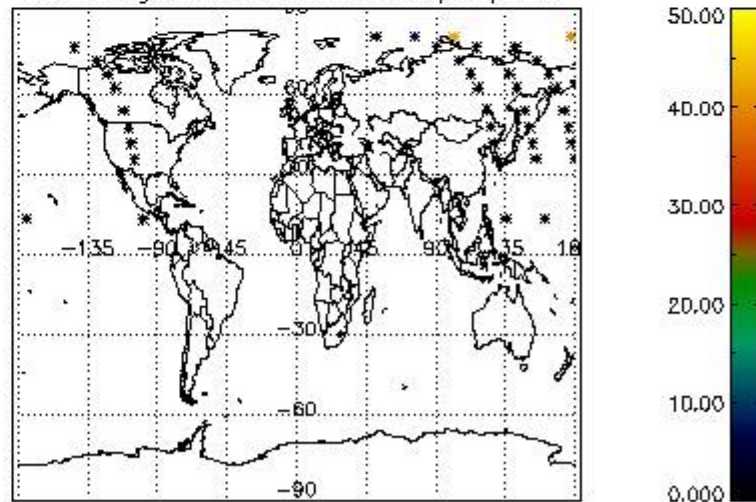
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

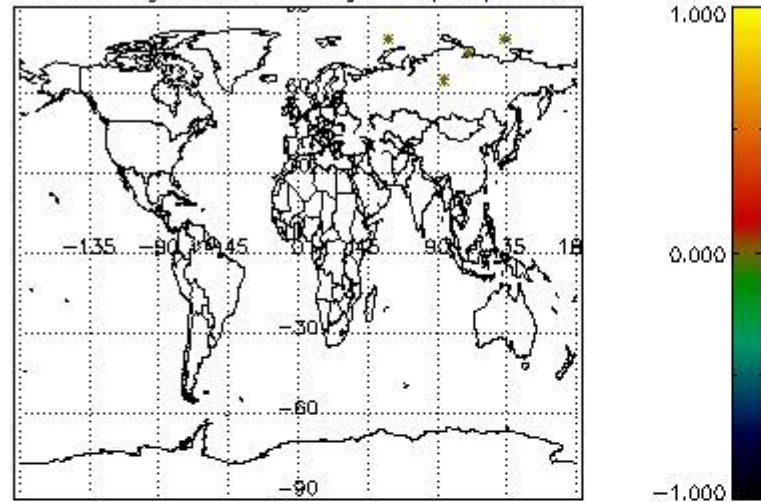


Percentage of saturation errors per profile

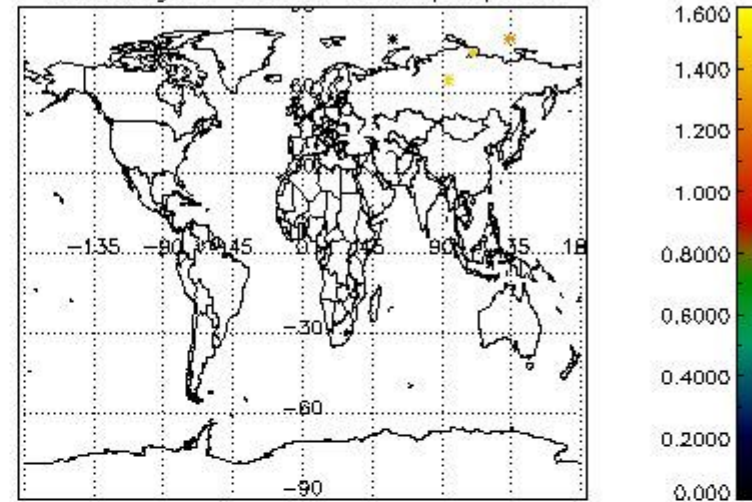


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

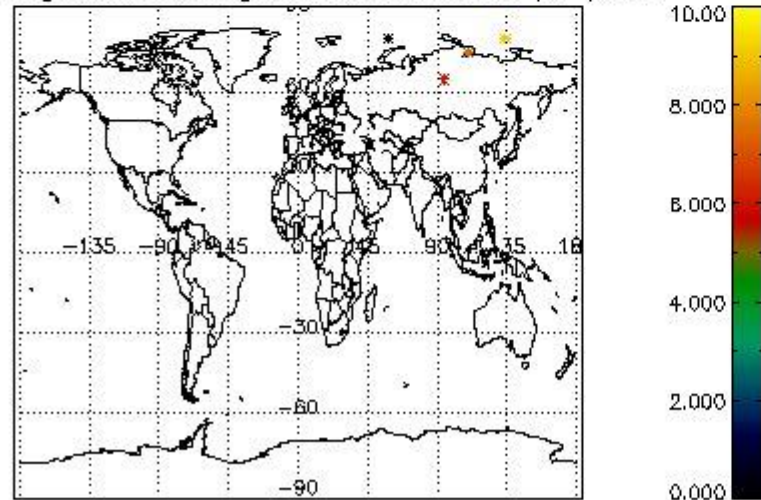
Percentage of cosmic ray hits per profile



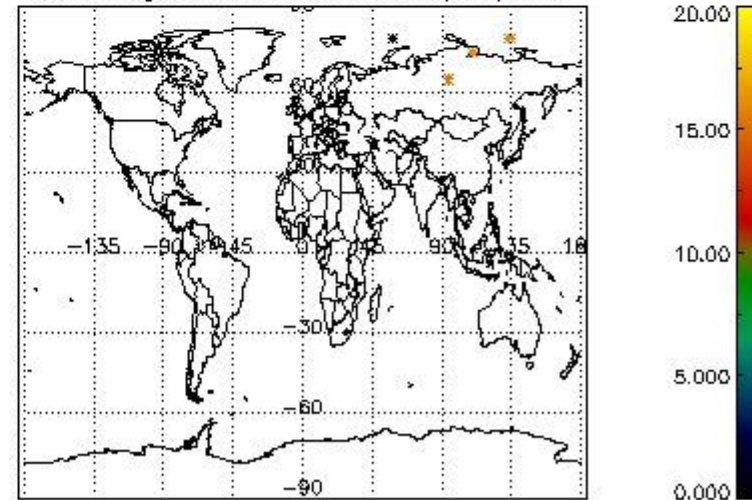
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

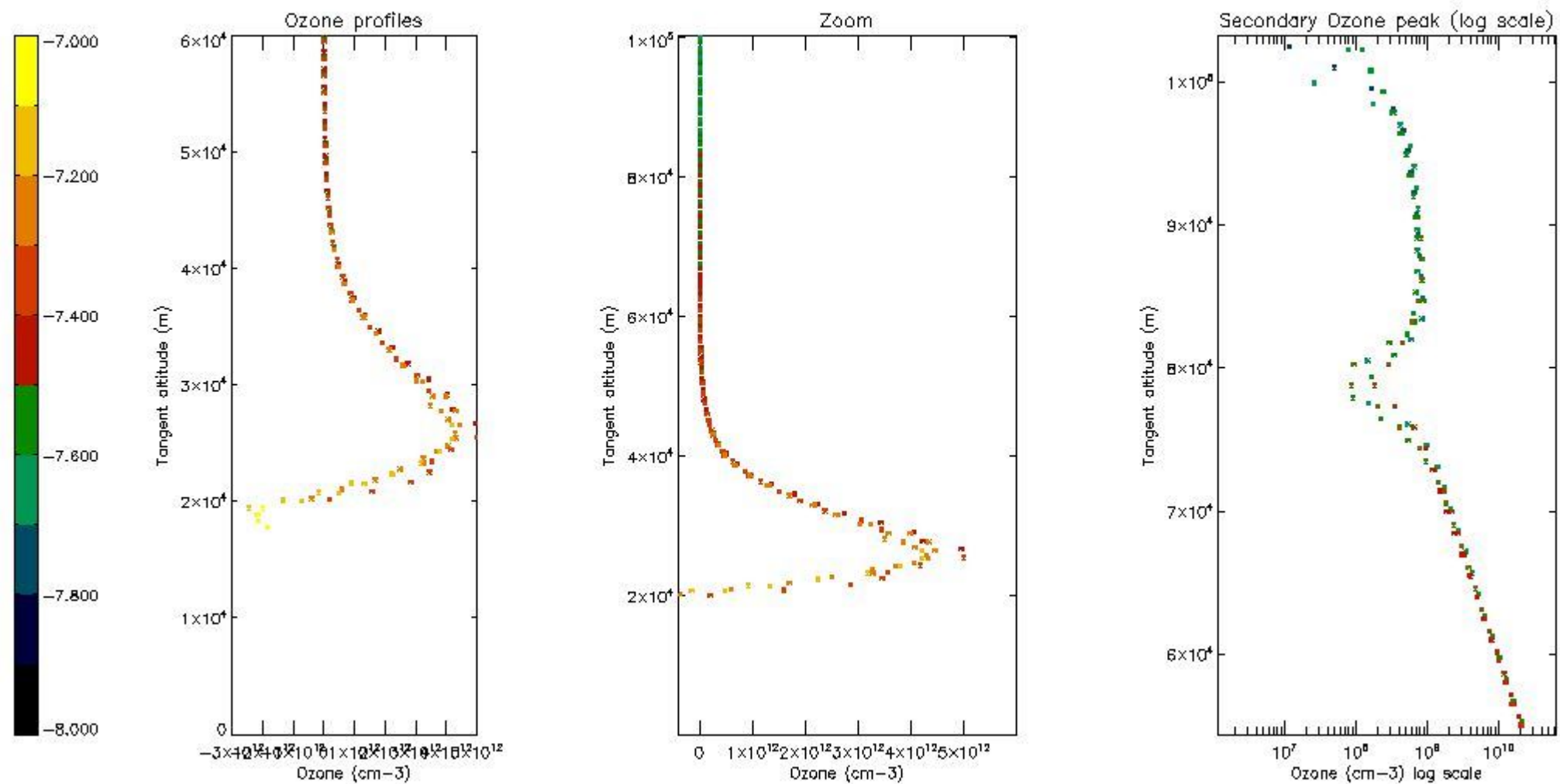
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	8
STD < 20	7

STD < 10	7
STD < 5	6

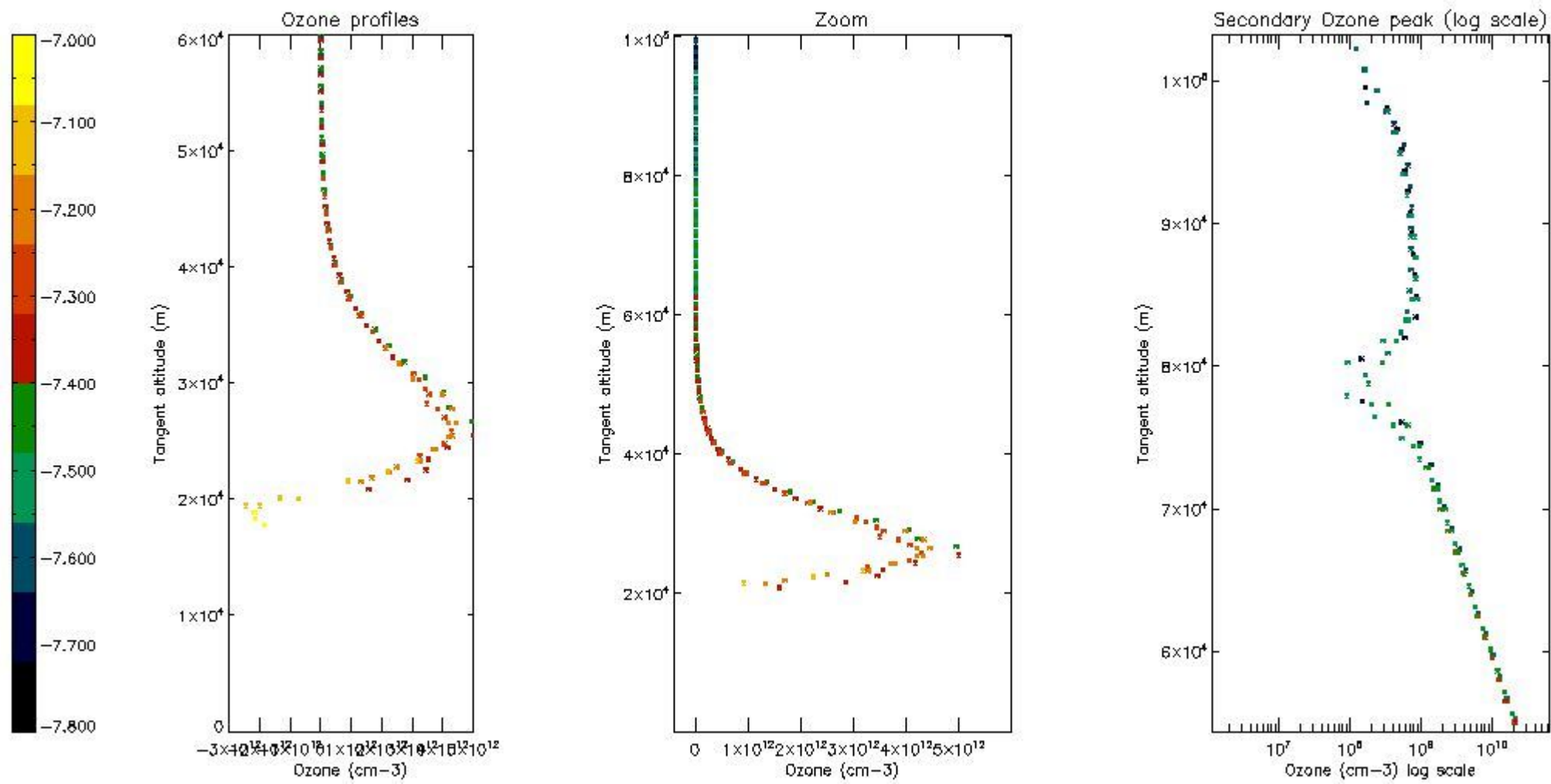
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



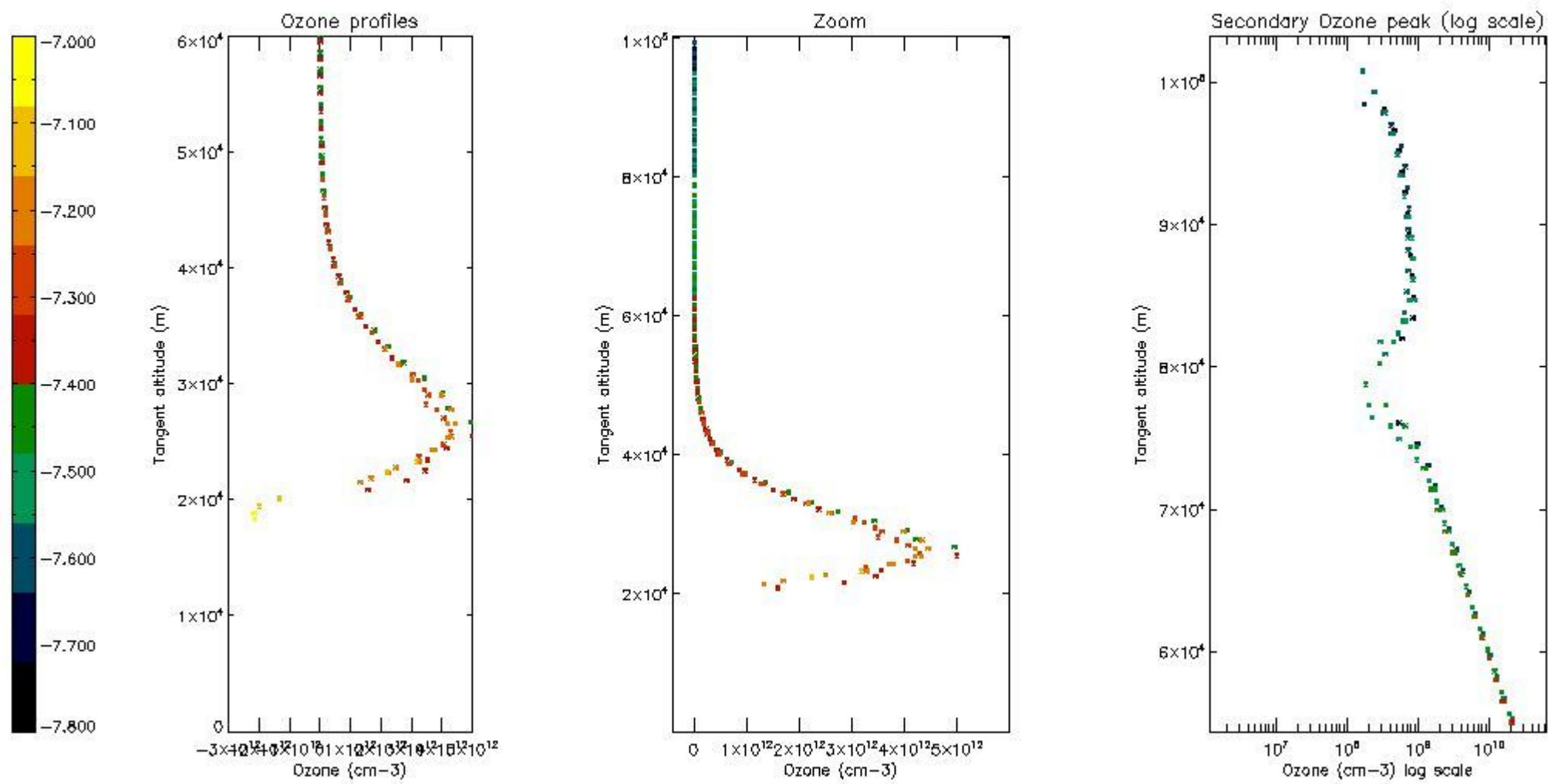
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



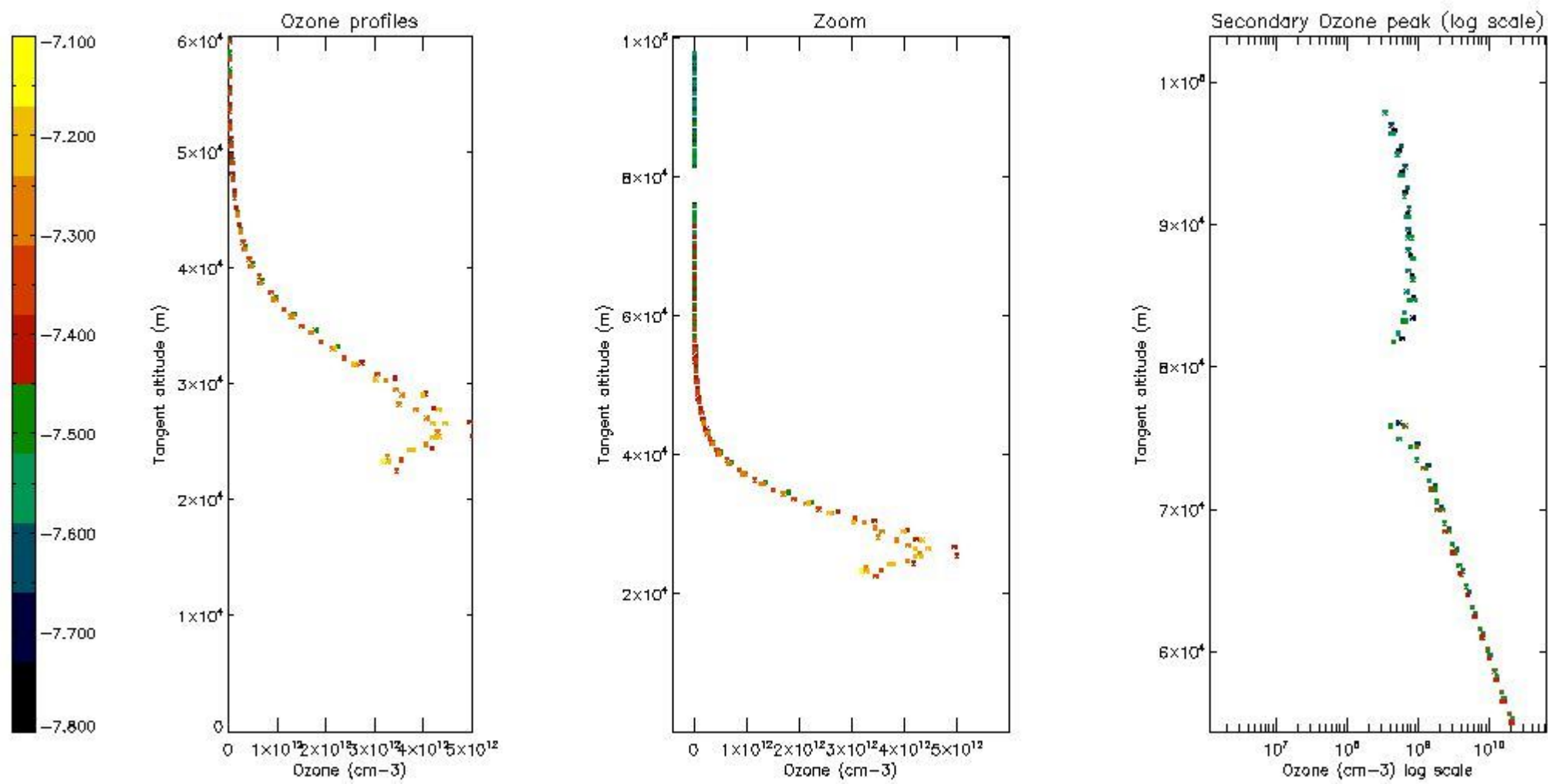
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



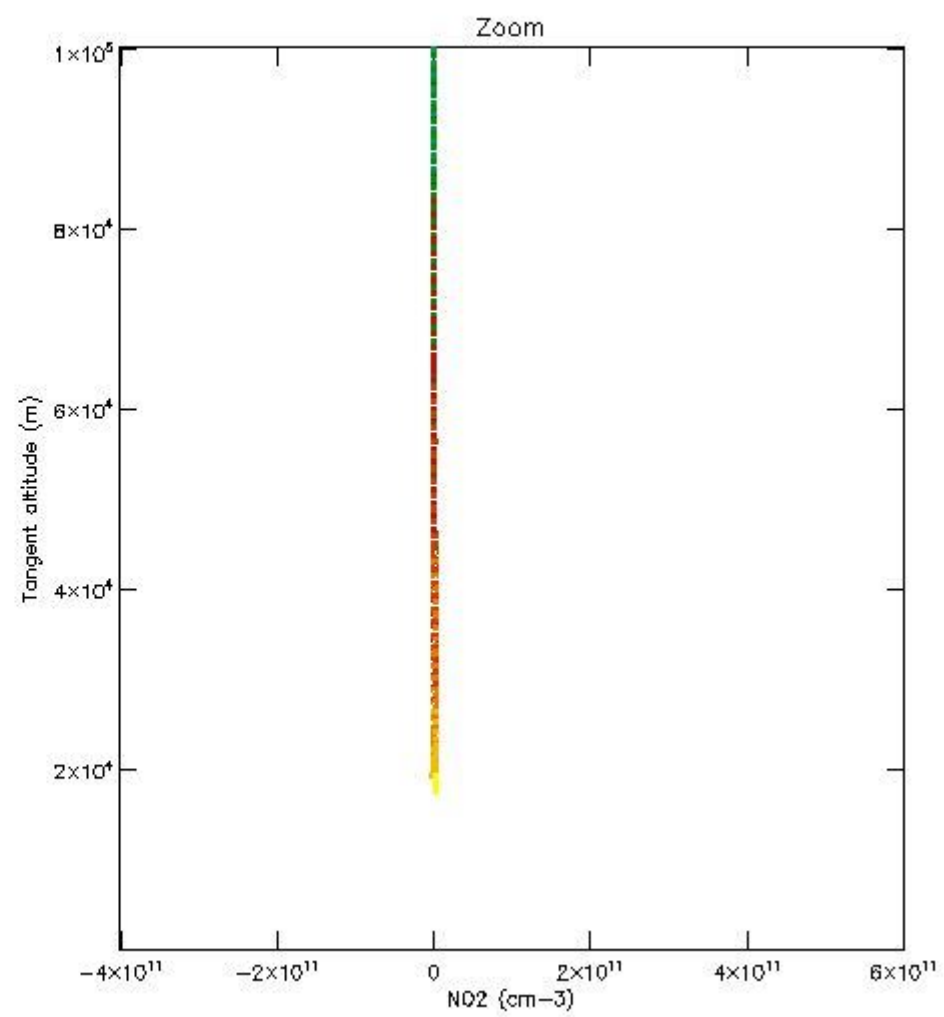
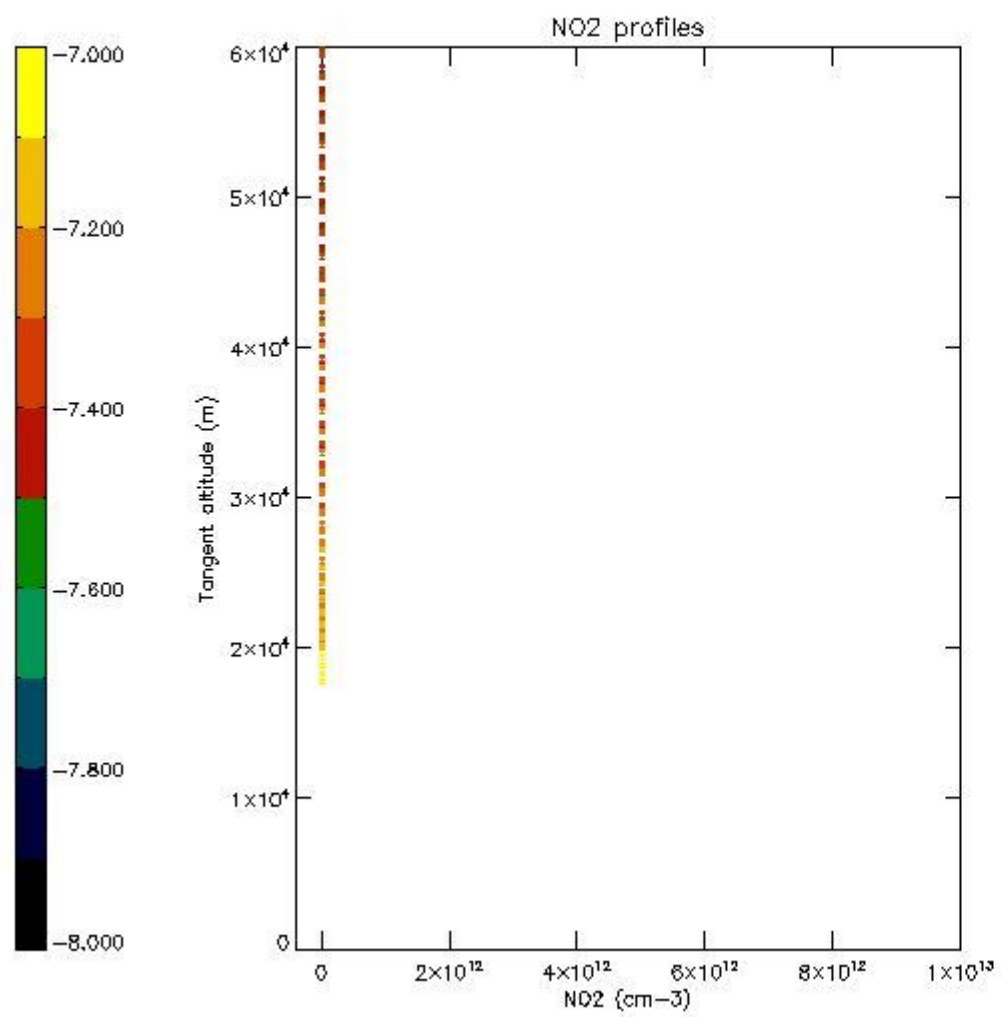
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



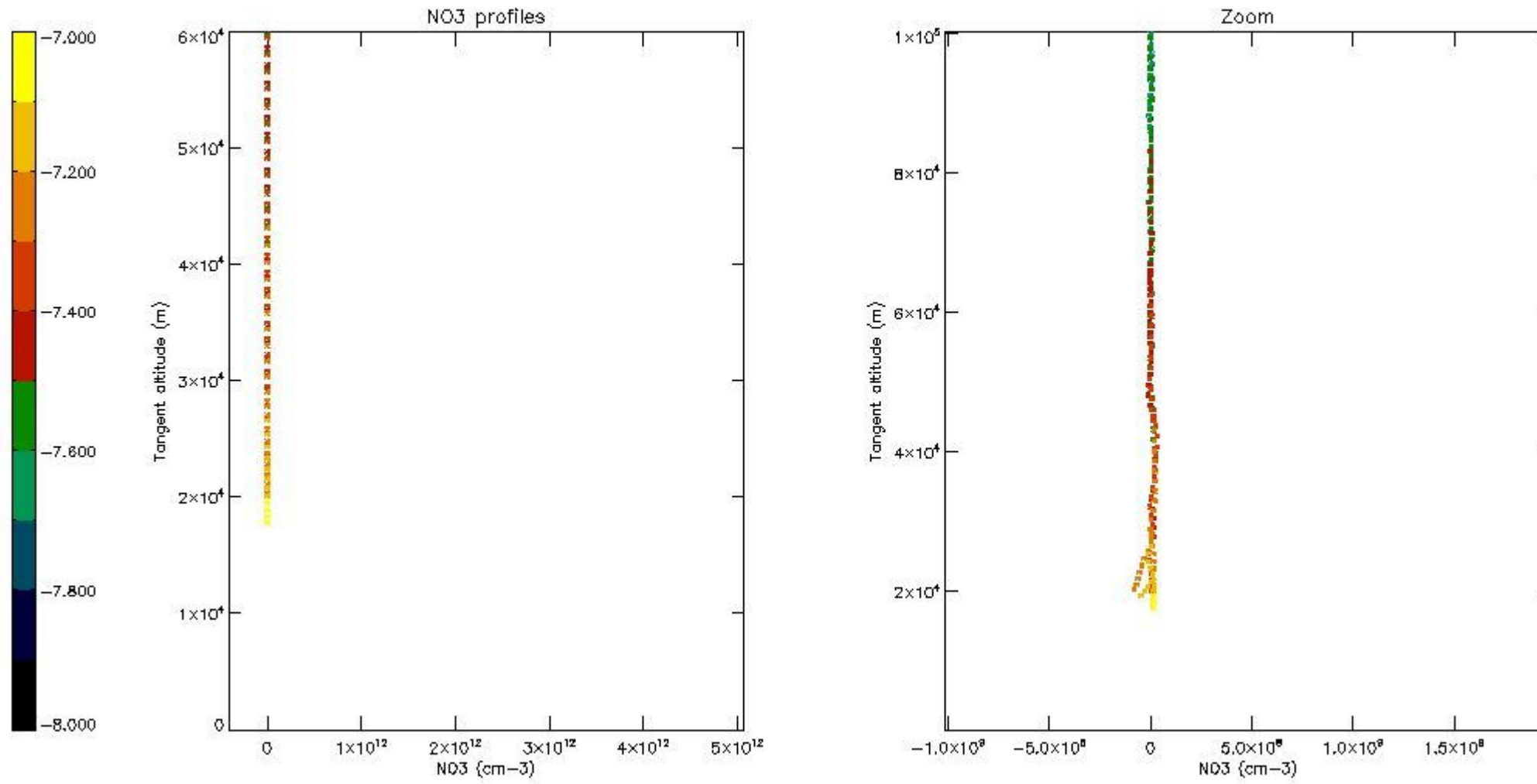
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	05-MAY-2002 04:28:21
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	05-MAY-2002 04:28:21
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	05-MAY-2002 04:28:21

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

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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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[5.8 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.
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Stop time of products	06-05-2002 (06MAY2002 00:00:00)
Store outputs in DB	Yes
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Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

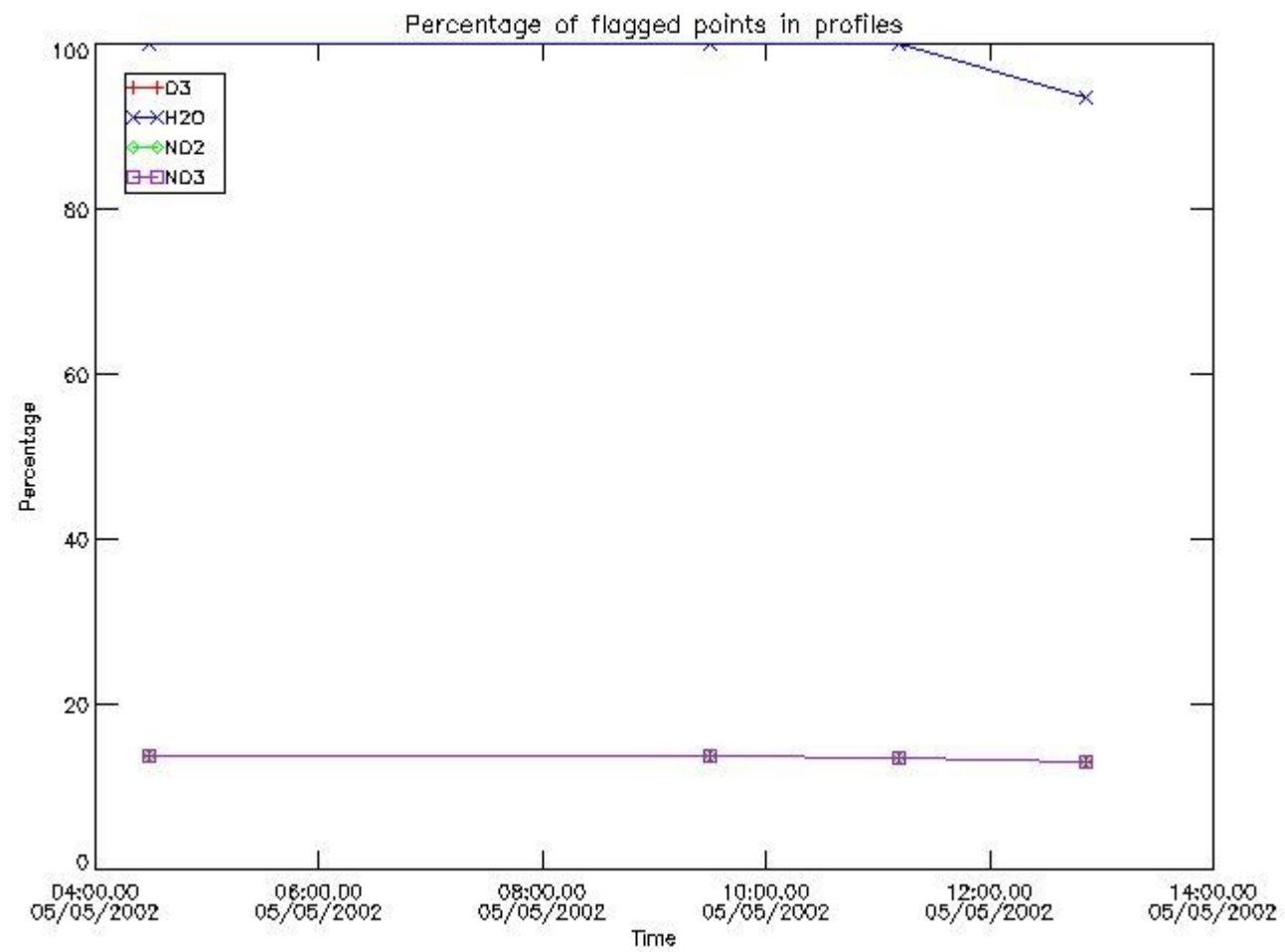
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20020505_042821_000000372005_00377_00932_0725.N1	05-MAY-2002 04:28:21	Dark	37.000	45	Alp Pav	1.9400	26000.	74	932	No
2	GOM_NL__2PRFIN20020505_043439_000000462005_00377_00932_0726.N1	05-MAY-2002 04:34:39	Straylight	46.000	43	Alp TrA	1.9100	4250.0	92	932	No
3	GOM_NL__2PRFIN20020505_043619_000000342005_00377_00932_0727.N1	05-MAY-2002 04:36:19	Straylight	33.500	145	Gam TrA	2.8720	10600.	67	932	No
4	GOM_NL__2PRFIN20020505_043759_000000492005_00377_00932_0728.N1	05-MAY-2002 04:37:59	Straylight	49.000	40	The Sco	1.8590	7100.0	98	932	No
5	GOM_NL__2PRFIN20020505_043948_000000552005_00377_00932_0729.N1	05-MAY-2002 04:39:48	Straylight	55.000	25	35Lam Sco	1.6200	28000.	110	932	No
6	GOM_NL__2PRFIN20020505_044217_000000352005_00377_00932_0730.N1	05-MAY-2002 04:42:17	Straylight	34.500	78	Alp Lup	2.3040	28000.	69	932	No
7	GOM_NL__2PRFIN20020505_044348_000000362005_00377_00932_0731.N1	05-MAY-2002 04:43:48	Straylight	35.500	81	Eta Cen	2.3560	28000.	71	932	No
8	GOM_NL__2PRFIN20020505_044523_000000512005_00377_00932_0732.N1	05-MAY-2002 04:45:23	Twilight_and_stray	50.500	136	23Tau Sco	2.8220	30000.	101	932	No
9	GOM_NL__2PRFIN20020505_044705_000000462005_00377_00932_0733.N1	05-MAY-2002 04:47:05	Twilight_and_stray	45.500	158	6Pi Sco	2.9060	28000.	91	932	No
10	GOM_NL__2PRFIN20020505_044921_000000572005_00377_00932_0734.N1	05-MAY-2002 04:49:21	Bright	56.500	97	8Bet1Sco	2.5610	30000.	113	932	No
11	GOM_NL__2PRFIN20020505_045119_000000392005_00377_00932_0735.N1	05-MAY-2002 04:51:19	Bright	38.500	122	9Alp2Lib	2.7470	9700.0	77	932	No
12	GOM_NL__2PRFIN20020505_045321_000000342005_00377_00932_0736.N1	05-MAY-2002 04:53:21	Bright	34.000	15	67Alp Vir	0.97600	28000.	68	932	No
13	GOM_NL__2PRFIN20020505_045628_000000332005_00377_00932_0737.N1	05-MAY-2002 04:56:28	Bright	33.000	121	29Gam Vir	2.7400	7200.0	66	932	No
14	GOM_NL__2PRFIN20020505_093010_000000372005_00380_00935_0728.N1	05-MAY-2002 09:30:10	Dark	37.000	45	Alp Pav	1.9400	26000.	74	935	No
15	GOM_NL__2PRFIN20020505_093628_000000352005_00380_00935_0729.N1	05-MAY-2002 09:36:28	Straylight	35.000	43	Alp TrA	1.9100	4250.0	70	935	No
16	GOM_NL__2PRFIN20020505_093808_000000332005_00380_00935_0730.N1	05-MAY-2002 09:38:08	Straylight	33.000	145	Gam TrA	2.8720	10600.	66	935	No
17	GOM_NL__2PRFIN20020505_093949_000000502005_00380_00935_0731.N1	05-MAY-2002 09:39:49	Straylight	50.000	40	The Sco	1.8590	7100.0	100	935	No
18	GOM_NL__2PRFIN20020505_094139_000000552005_00380_00935_0732.N1	05-MAY-2002 09:41:39	Straylight	54.500	25	35Lam Sco	1.6200	28000.	109	935	No
19	GOM_NL__2PRFIN20020505_094405_000000372005_00380_00935_0733.N1	05-MAY-2002 09:44:05	Straylight	36.500	78	Alp Lup	2.3040	28000.	73	935	No
20	GOM_NL__2PRFIN20020505_094537_000000372005_00380_00935_0734.N1	05-MAY-2002 09:45:37	Straylight	37.000	81	Eta Cen	2.3560	28000.	74	935	No
21	GOM_NL__2PRFIN20020505_094713_000000502005_00380_00935_0735.N1	05-MAY-2002 09:47:13	Twilight_and_stray	50.000	136	23Tau Sco	2.8220	30000.	100	935	No
22	GOM_NL__2PRFIN20020505_094853_000000482005_00380_00935_0736.N1	05-MAY-2002 09:48:53	Twilight_and_stray	48.000	158	6Pi Sco	2.9060	28000.	96	935	No
23	GOM_NL__2PRFIN20020505_095109_000000592005_00380_00935_0737.N1	05-MAY-2002 09:51:09	Bright	58.500	97	8Bet1Sco	2.5610	30000.	117	935	No
24	GOM_NL__2PRFIN20020505_095307_000000212005_00380_00935_0738.N1	05-MAY-2002 09:53:07	Twilight_and_stray	21.000	122	9Alp2Lib	2.7470	9700.0	42	935	No
25	GOM_NL__2PRFIN20020505_111047_000000382005_00381_00936_0748.N1	05-MAY-2002 11:10:47	Dark	37.500	45	Alp Pav	1.9400	26000.	75	936	No
26	GOM_NL__2PRFIN20020505_111704_000000462005_00381_00936_0749.N1	05-MAY-2002 11:17:04	Straylight	45.500	43	Alp TrA	1.9100	4250.0	91	936	No
27	GOM_NL__2PRFIN20020505_111844_000000342005_00381_00936_0750.N1	05-MAY-2002 11:18:44	Straylight	33.500	145	Gam TrA	2.8720	10600.	67	936	No
28	GOM_NL__2PRFIN20020505_112026_000000522005_00381_00936_0751.N1	05-MAY-2002 11:20:26	Straylight	51.500	40	The Sco	1.8590	7100.0	103	936	No
29	GOM_NL__2PRFIN20020505_112216_000000562005_00381_00936_0752.N1	05-MAY-2002 11:22:16	Straylight	56.000	25	35Lam Sco	1.6200	28000.	112	936	No
30	GOM_NL__2PRFIN20020505_112441_000000362005_00381_00936_0753.N1	05-MAY-2002 11:24:41	Straylight	36.000	78	Alp Lup	2.3040	28000.	72	936	No
31	GOM_NL__2PRFIN20020505_112613_000000362005_00381_00936_0754.N1	05-MAY-2002 11:26:13	Straylight	35.500	81	Eta Cen	2.3560	28000.	71	936	No
32	GOM_NL__2PRFIN20020505_112749_000000502005_00381_00936_0755.N1	05-MAY-2002 11:27:49	Twilight_and_stray	49.500	136	23Tau Sco	2.8220	30000.	99	936	No
33	GOM_NL__2PRFIN20020505_112929_000000482005_00381_00936_0756.N1	05-MAY-2002 11:29:29	Twilight_and_stray	47.500	158	6Pi Sco	2.9060	28000.	95	936	No
34	GOM_NL__2PRFIN20020505_113145_000000362005_00381_00936_0757.N1	05-MAY-2002 11:31:45	Bright	35.500	97	8Bet1Sco	2.5610	30000.	71	936	No
35	GOM_NL__2PRFIN20020505_125123_000000392005_00382_00937_0748.N1	05-MAY-2002 12:51:23	Dark	39.000	45	Alp Pav	1.9400	26000.	78	937	No
36	GOM_NL__2PRFIN20020505_125740_000000442005_00382_00937_0749.N1	05-MAY-2002 12:57:40	Straylight	44.000	43	Alp TrA	1.9100	4250.0	88	937	No
37	GOM_NL__2PRFIN20020505_125920_000000342005_00382_00937_0750.N1	05-MAY-2002 12:59:20	Straylight	33.500	145	Gam TrA	2.8720	10600.	67	937	No
38	GOM_NL__2PRFIN20020505_130103_000000502005_00382_00937_0751.N1	05-MAY-2002 13:01:03	Straylight	49.500	40	The Sco	1.8590	7100.0	99	937	No
39	GOM_NL__2PRFIN20020505_130252_000000552005_00382_00937_0752.N1	05-MAY-2002 13:02:52	Straylight	55.000	25	35Lam Sco	1.6200	28000.	110	937	No
40	GOM_NL__2PRFIN20020505_130518_000000382005_00382_00937_0753.N1	05-MAY-2002 13:05:18	Straylight	38.000	78	Alp Lup	2.3040	28000.	76	937	No
41	GOM_NL__2PRFIN20020505_130650_000000352005_00382_00937_0754.N1	05-MAY-2002 13:06:50	Straylight	35.000	81	Eta Cen	2.3560	28000.	70	937	No
42	GOM_NL__2PRFIN20020505_130826_000000512005_00382_00937_0755.N1	05-MAY-2002 13:08:26	Twilight_and_stray	50.500	136	23Tau Sco	2.8220	30000.	101	937	No

43	GOM_NL__2PRFIN20020505_131006_000000462005_00382_00937_0756.N1	05-MAY-2002 13:10:06	Twilight_and_stray	45.500	158	6Pi Sco	2.9060	28000.	91	937	No
44	GOM_NL__2PRFIN20020505_131221_000000052005_00382_00937_0757.N1	05-MAY-2002 13:12:21	Straylight	4.5000	97	8Bet1Sco	2.5610	30000.	9	937	No

3. Quality information per product

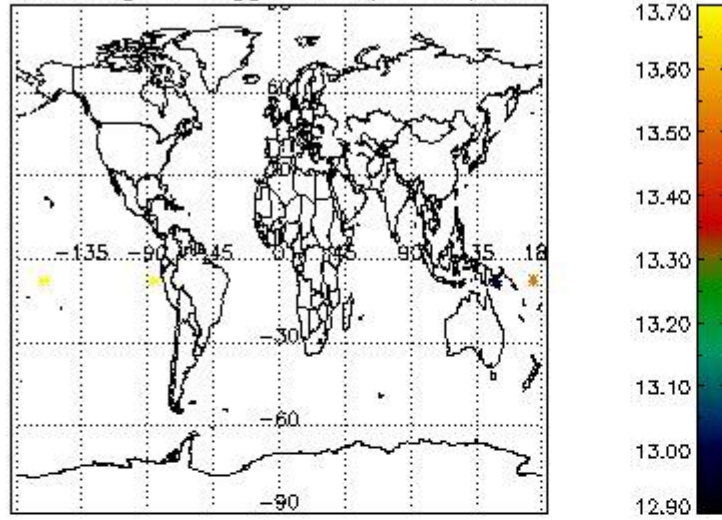
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

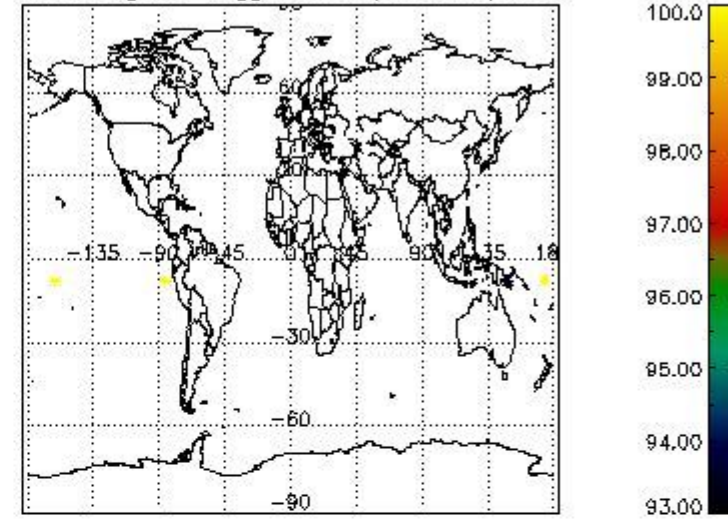


3.2 Plot quality information per product (world map)

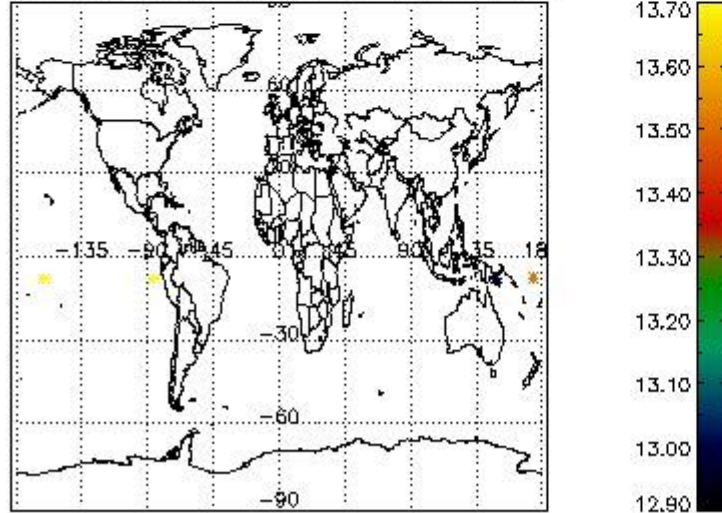
Percentage of flagged data per O3 profile



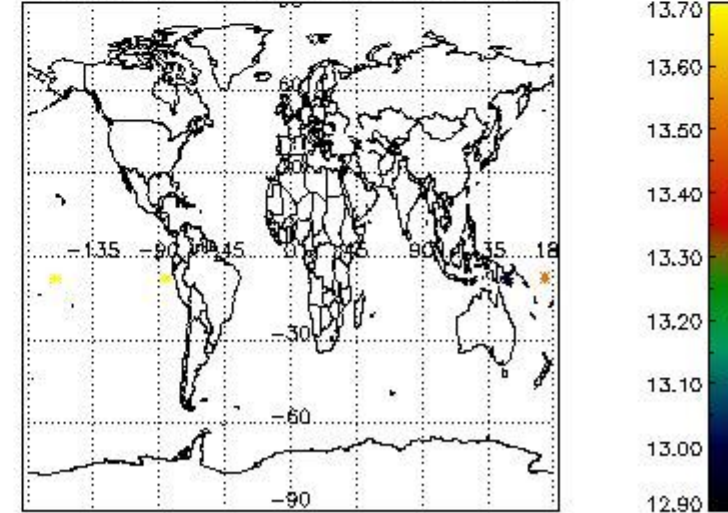
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

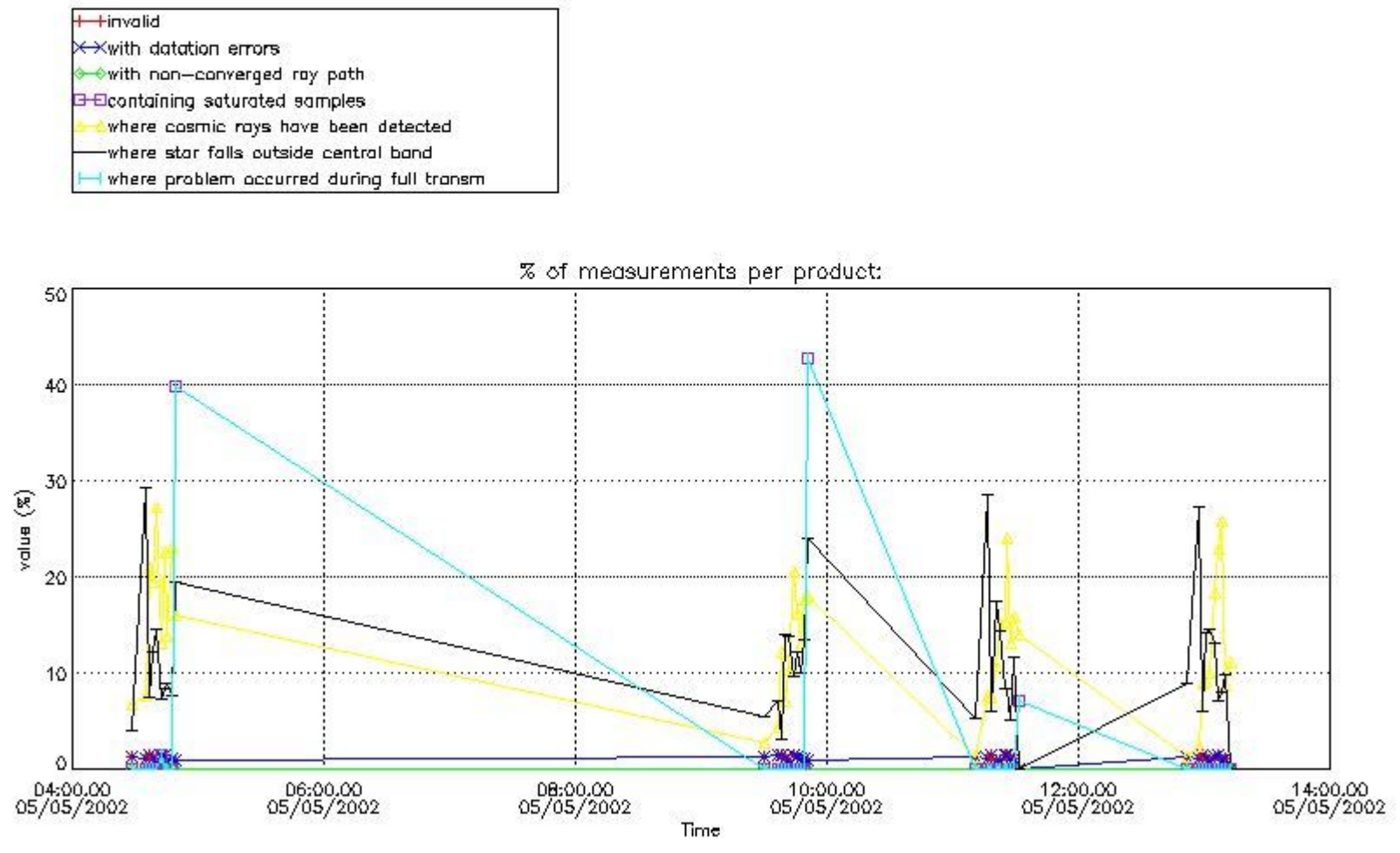


4. Level 1 quality information per product

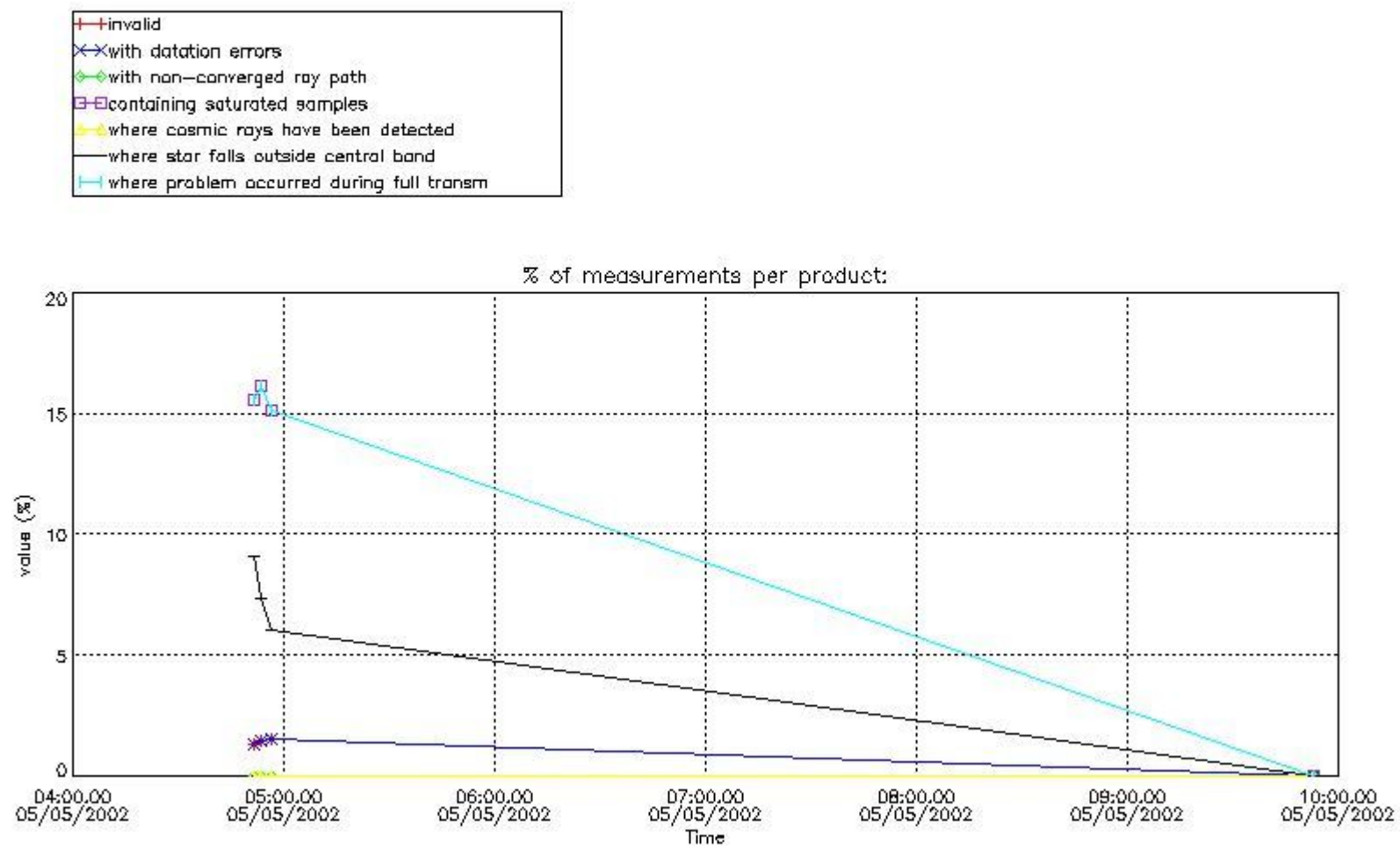
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



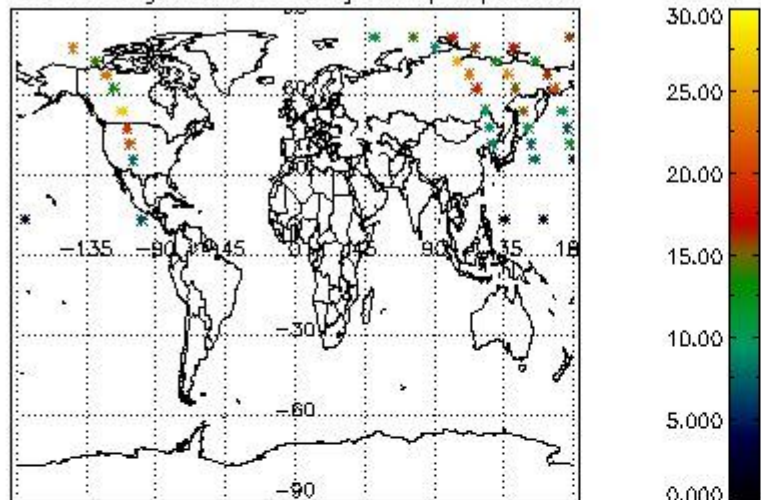
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



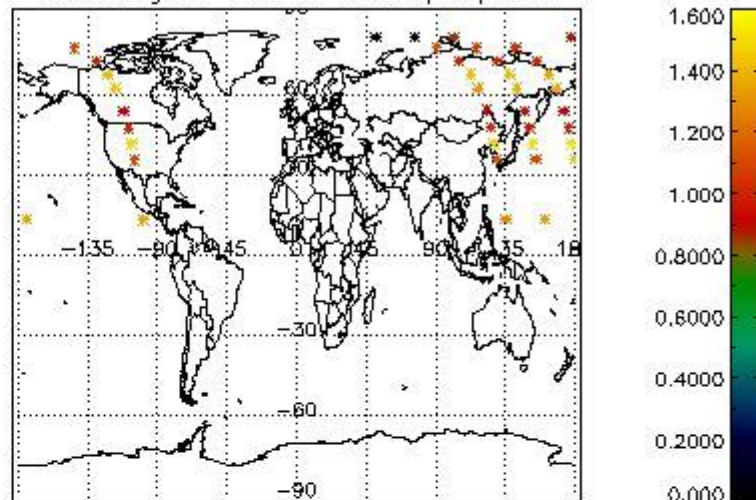
4.2 Plot quality information per product coming from level 1b processing (world map)

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

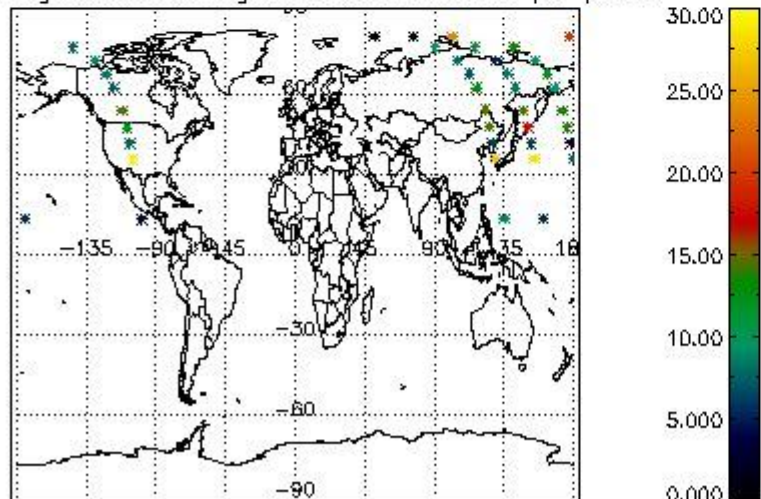
Percentage of cosmic ray hits per profile



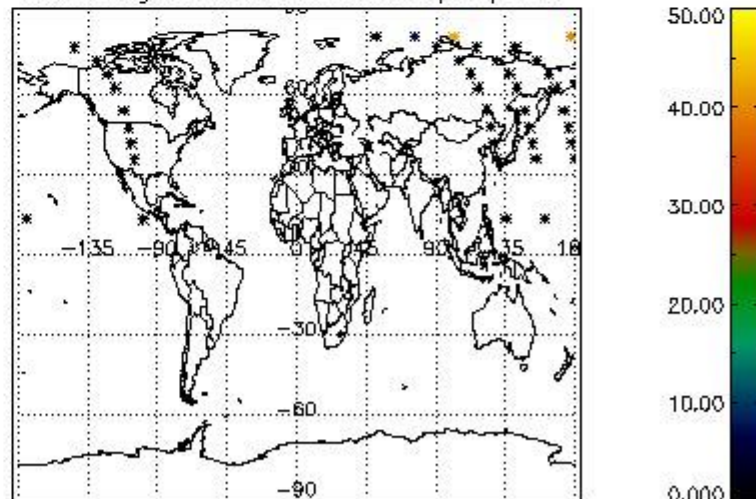
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

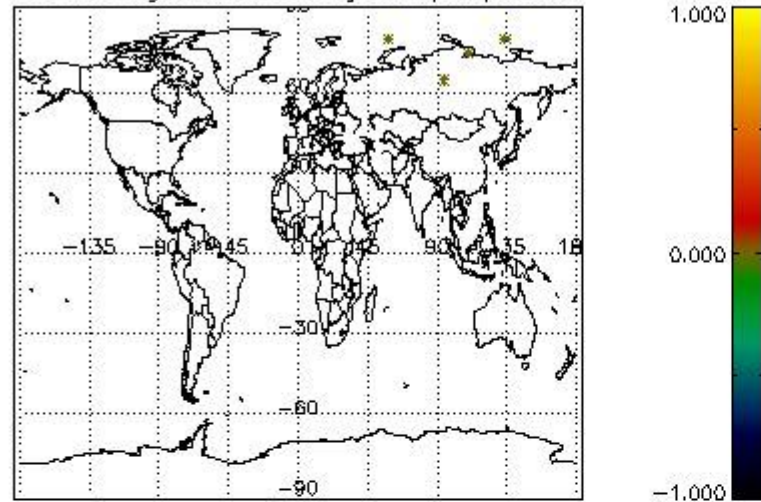


Percentage of saturation errors per profile

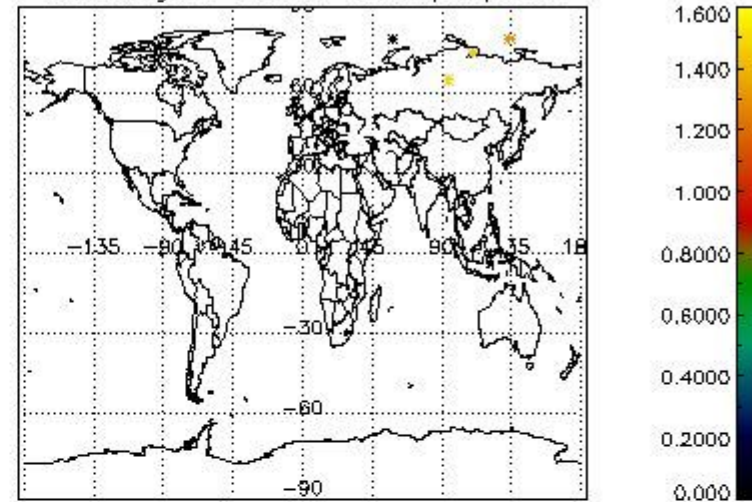


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

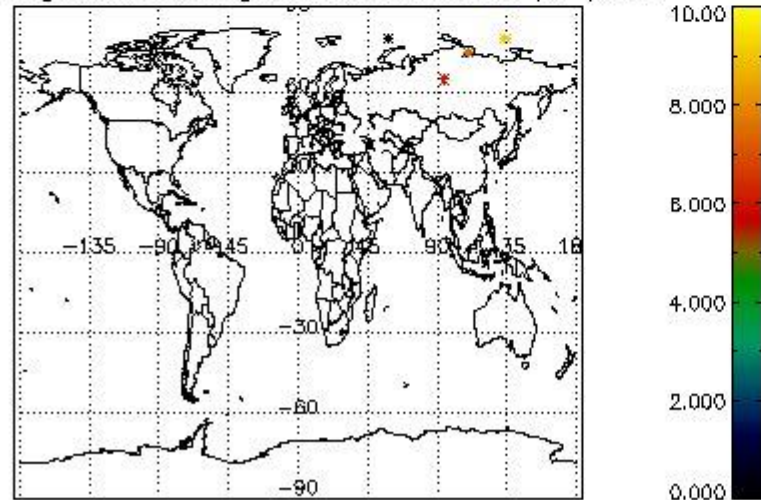
Percentage of cosmic ray hits per profile



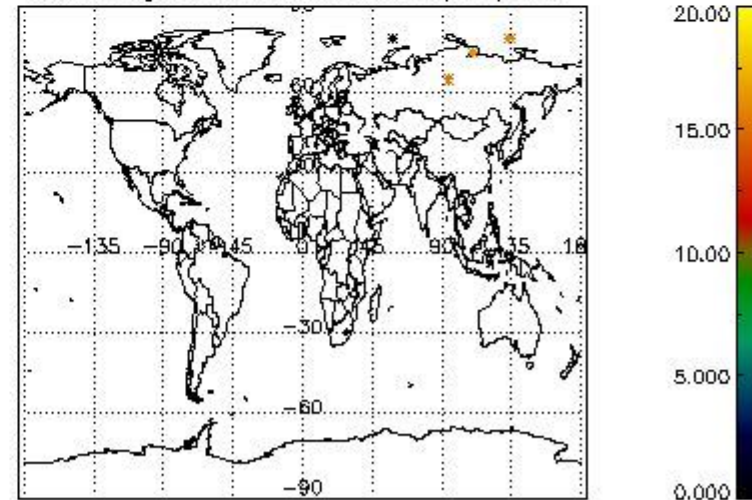
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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

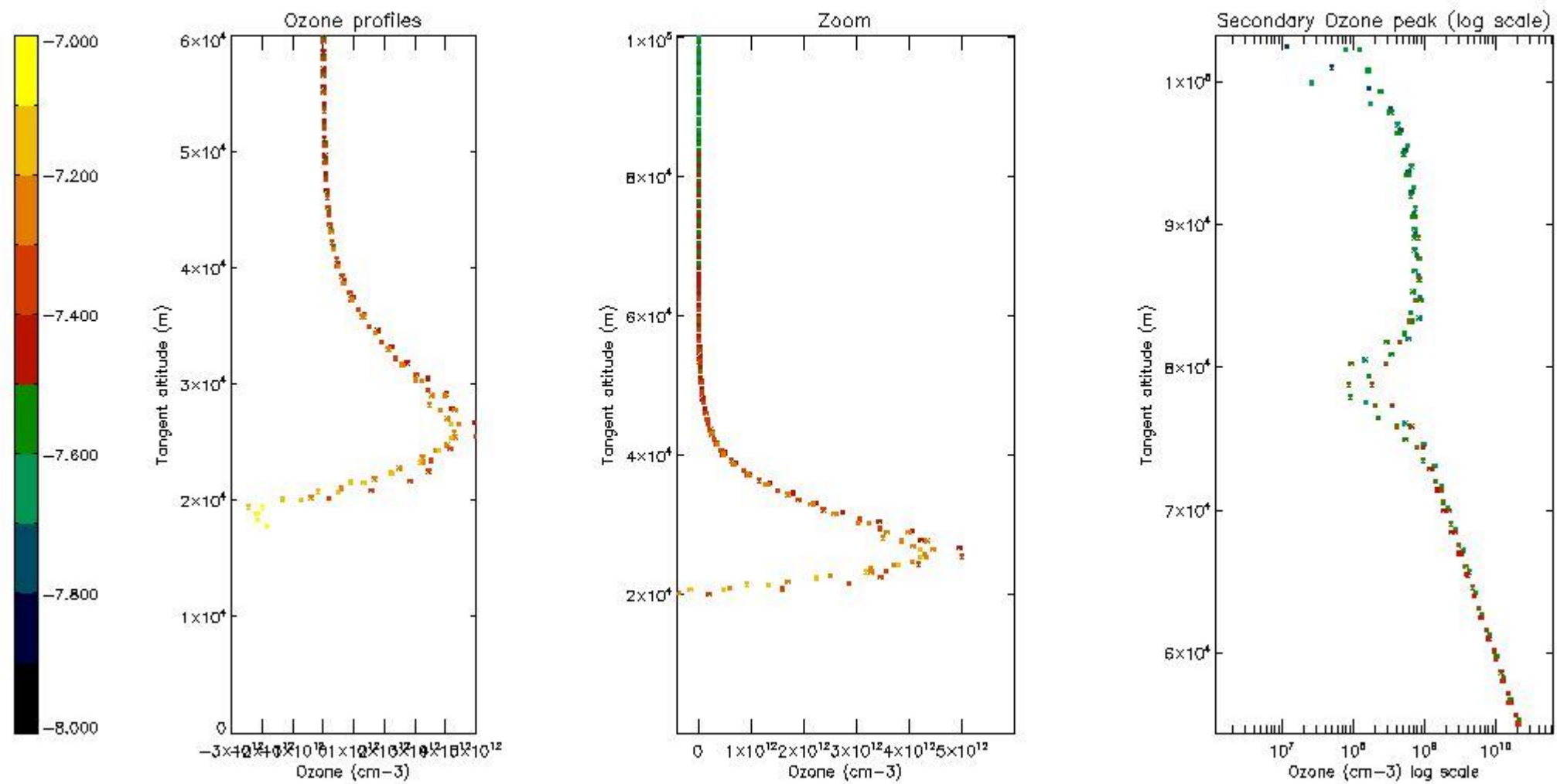
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	8
STD < 20	7

STD < 10	7
STD < 5	6

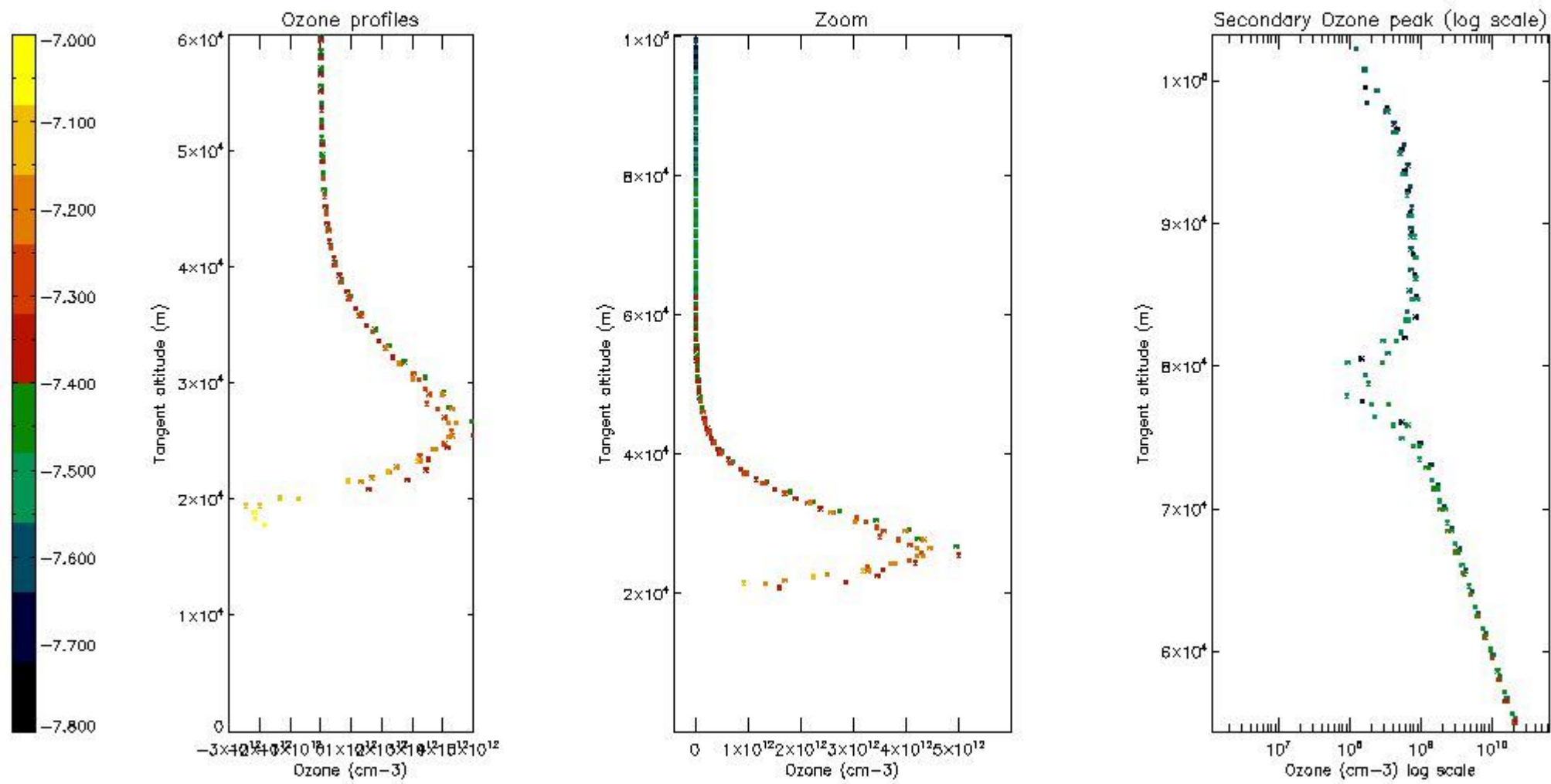
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



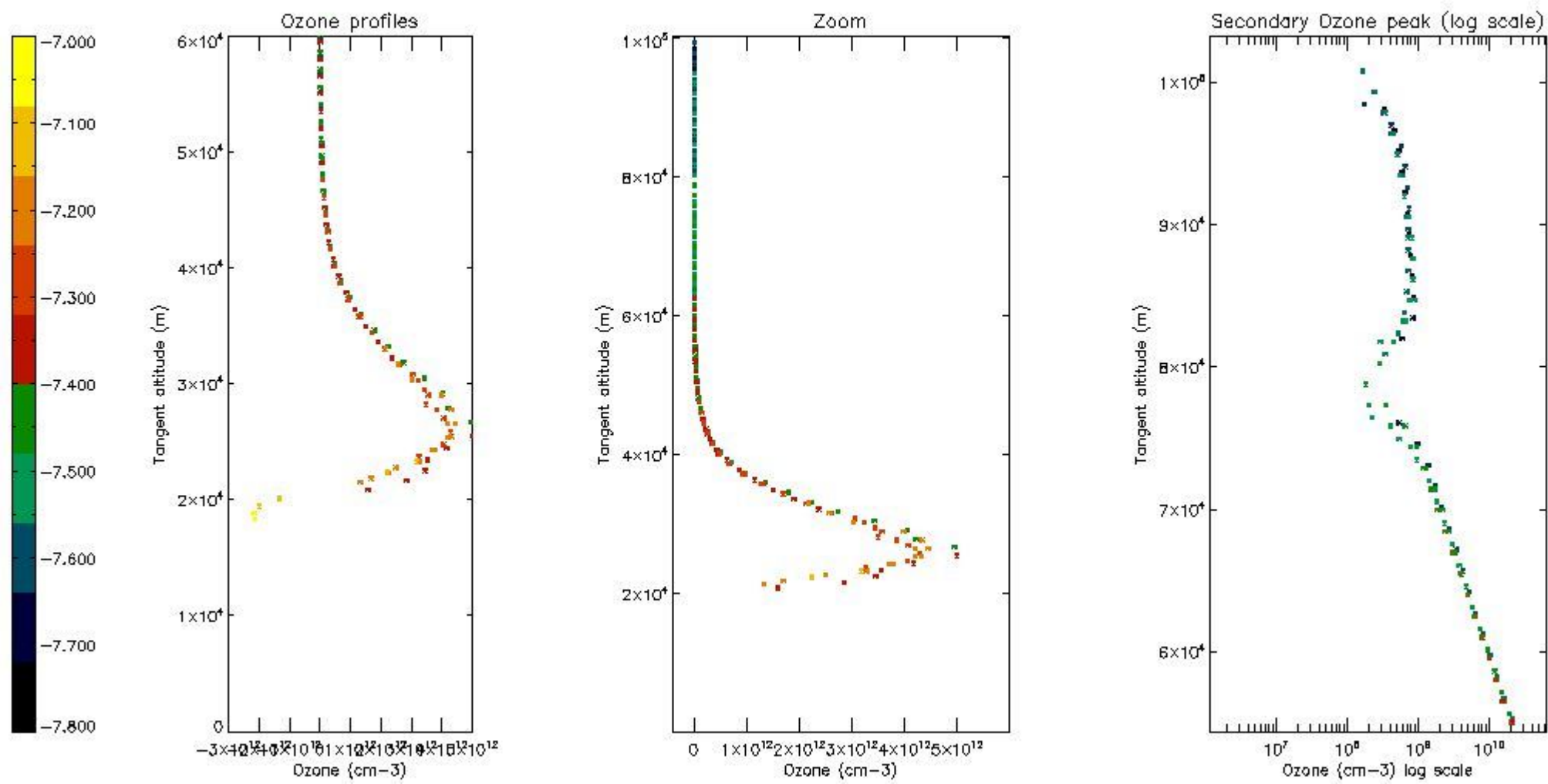
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



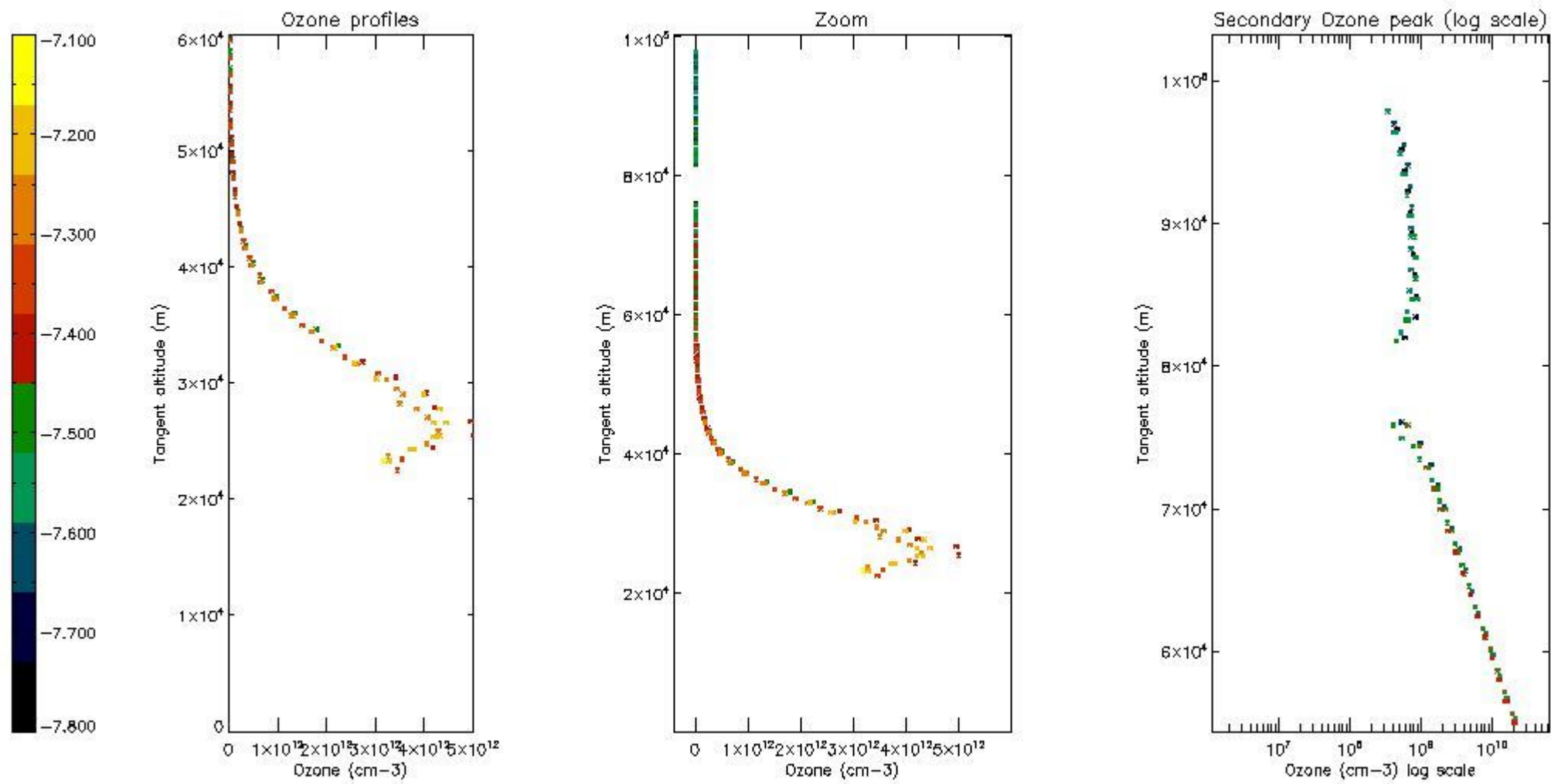
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



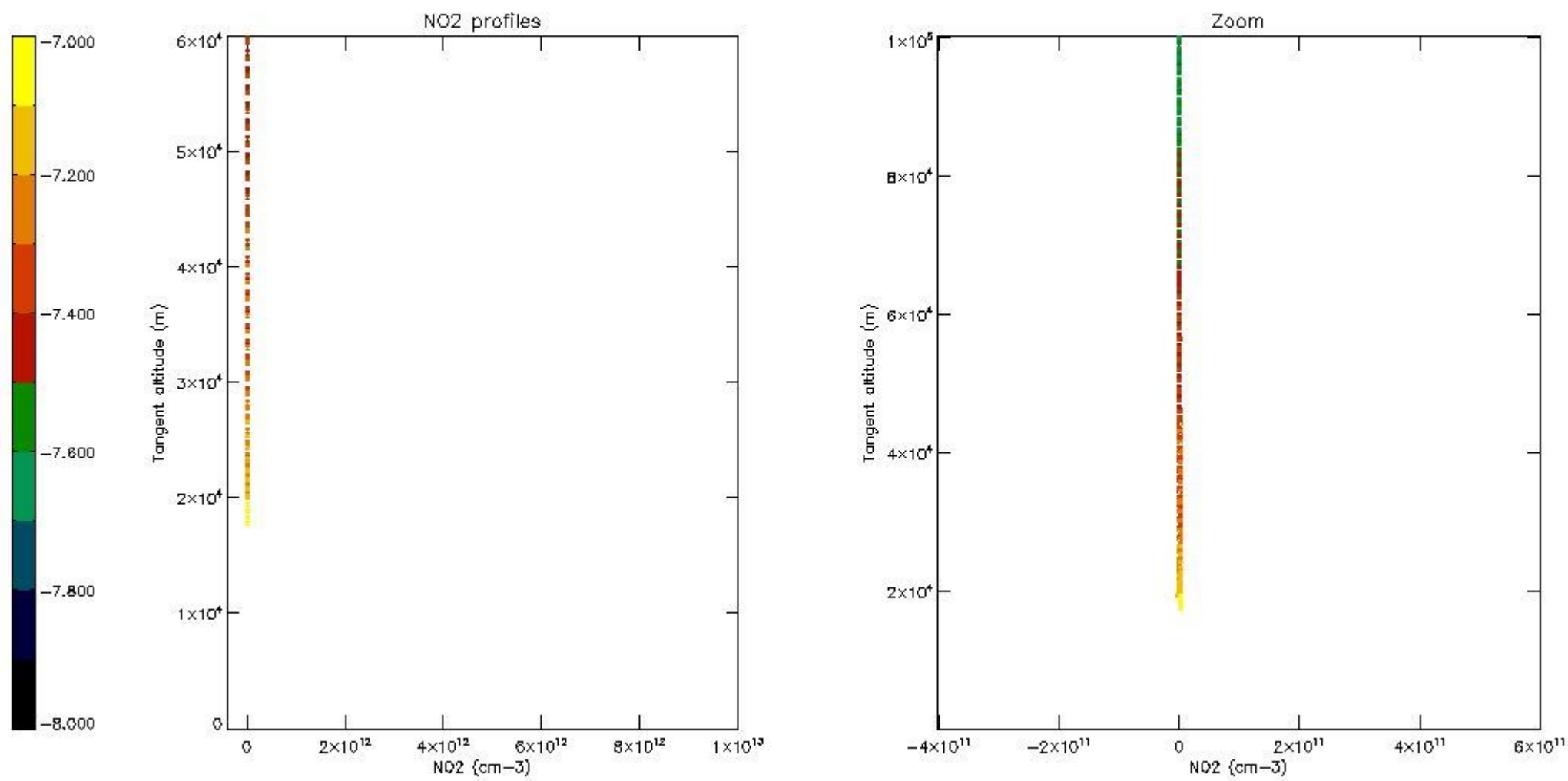
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



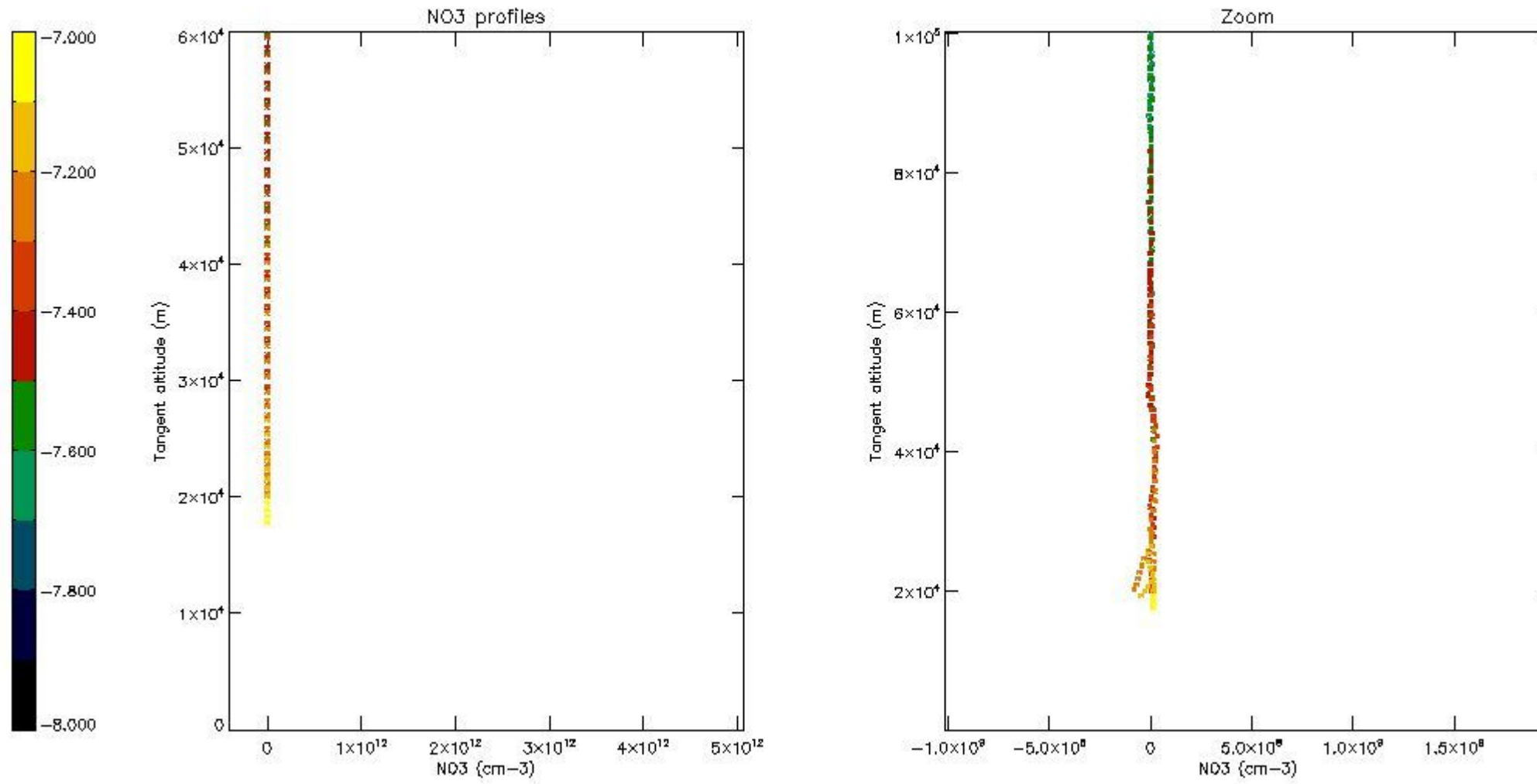
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

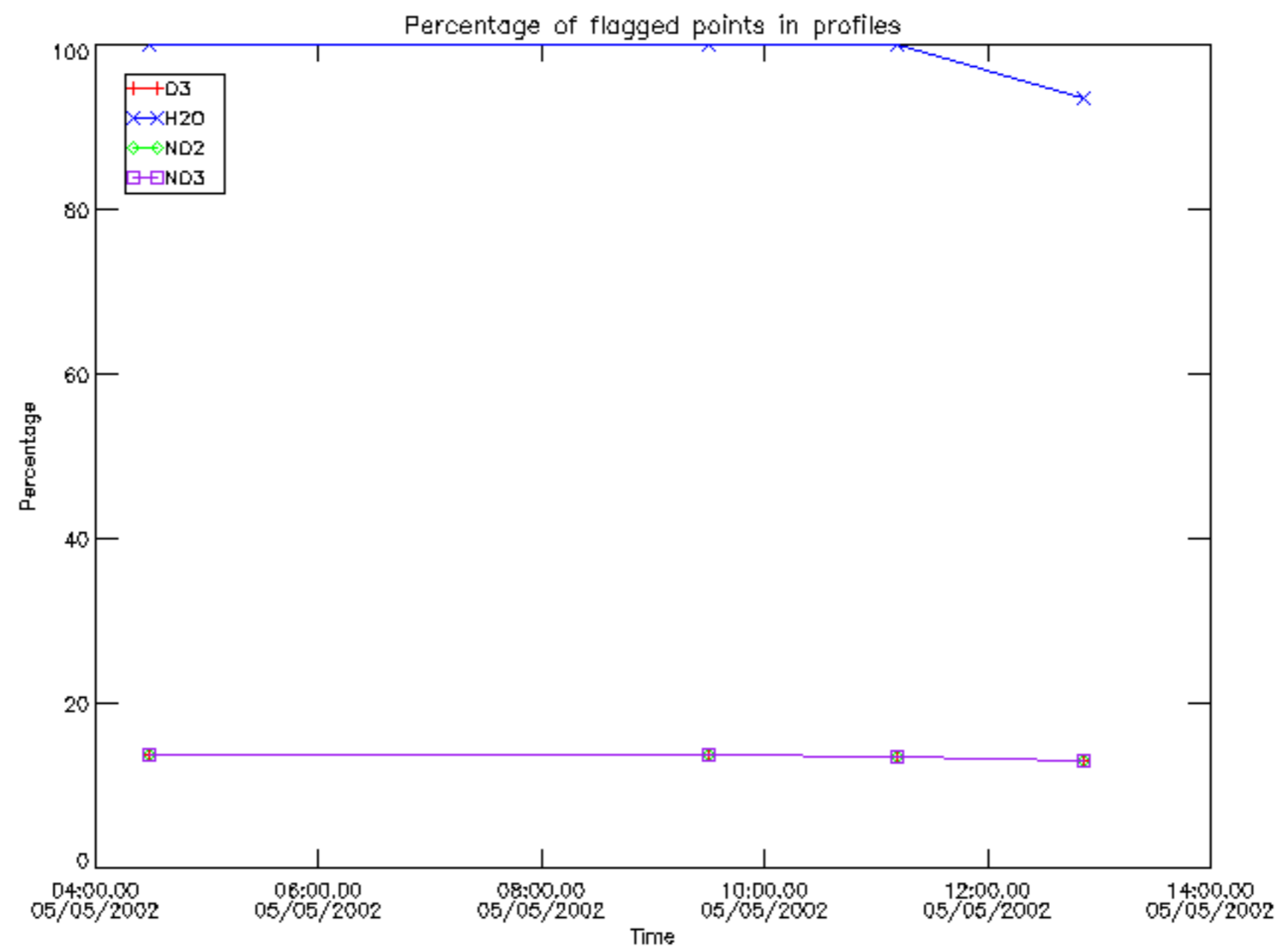
The colorbar represents the latitude.



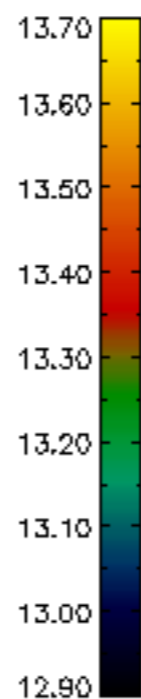
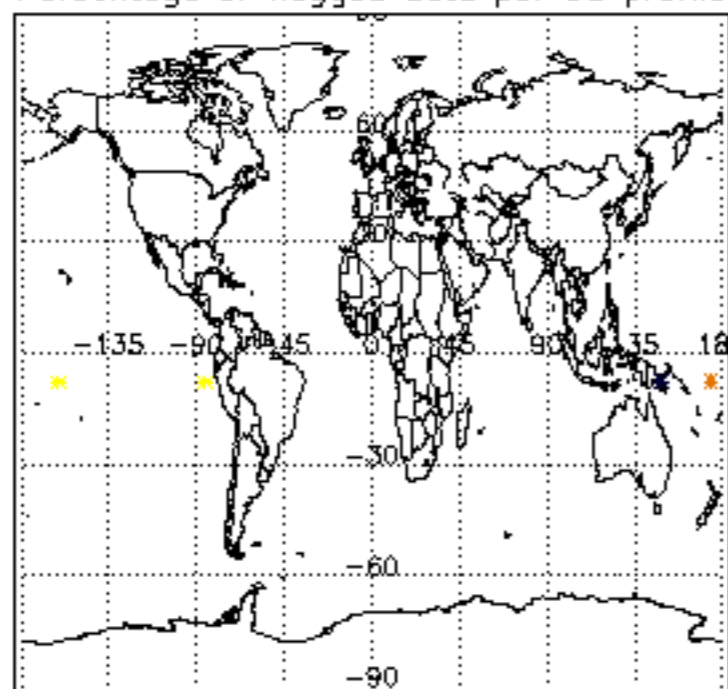
6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

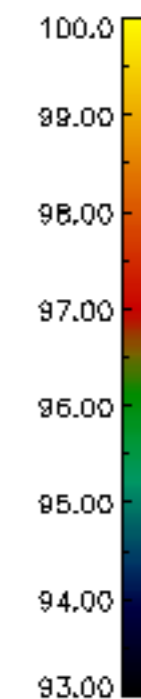
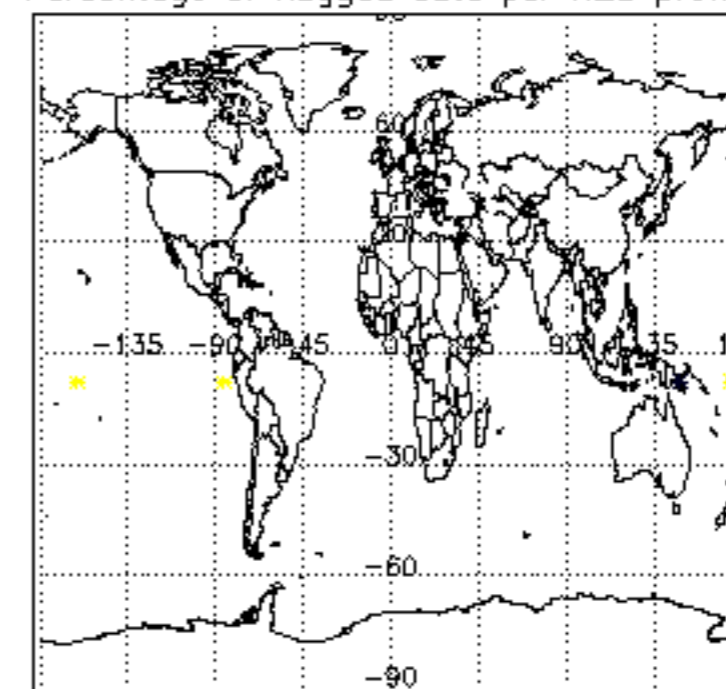
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	05-MAY-2002 04:28:21
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	05-MAY-2002 04:28:21
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	05-MAY-2002 04:28:21



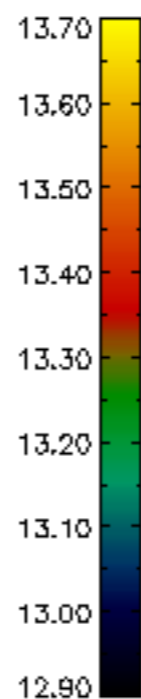
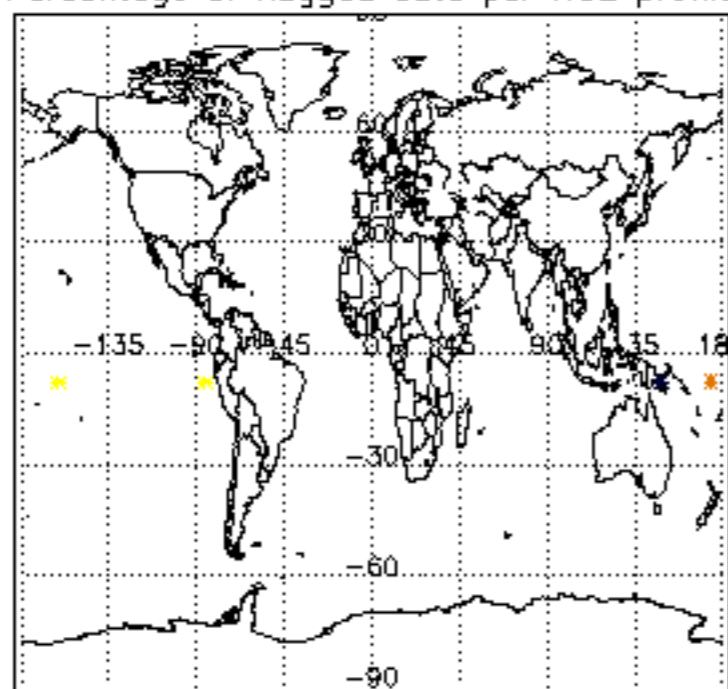
Percentage of flagged data per D3 profile



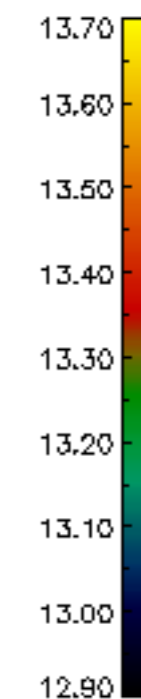
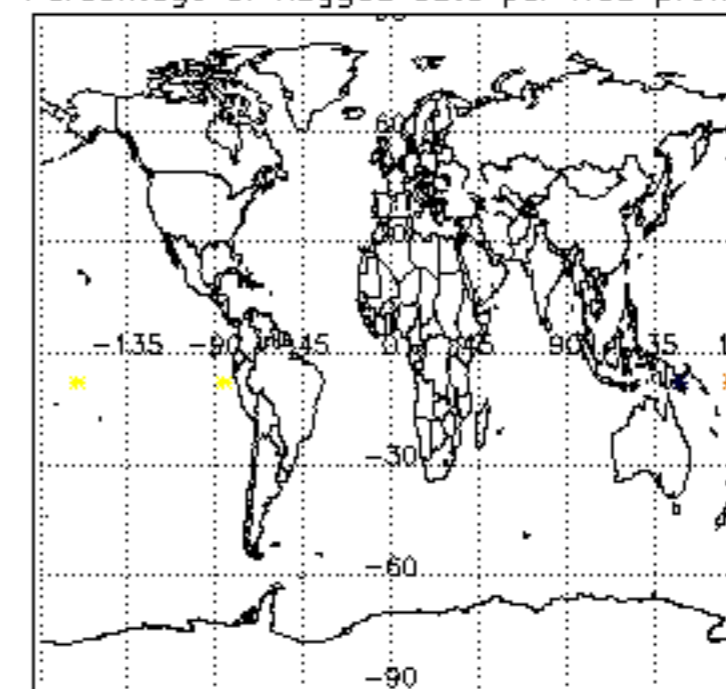
Percentage of flagged data per H2O profile

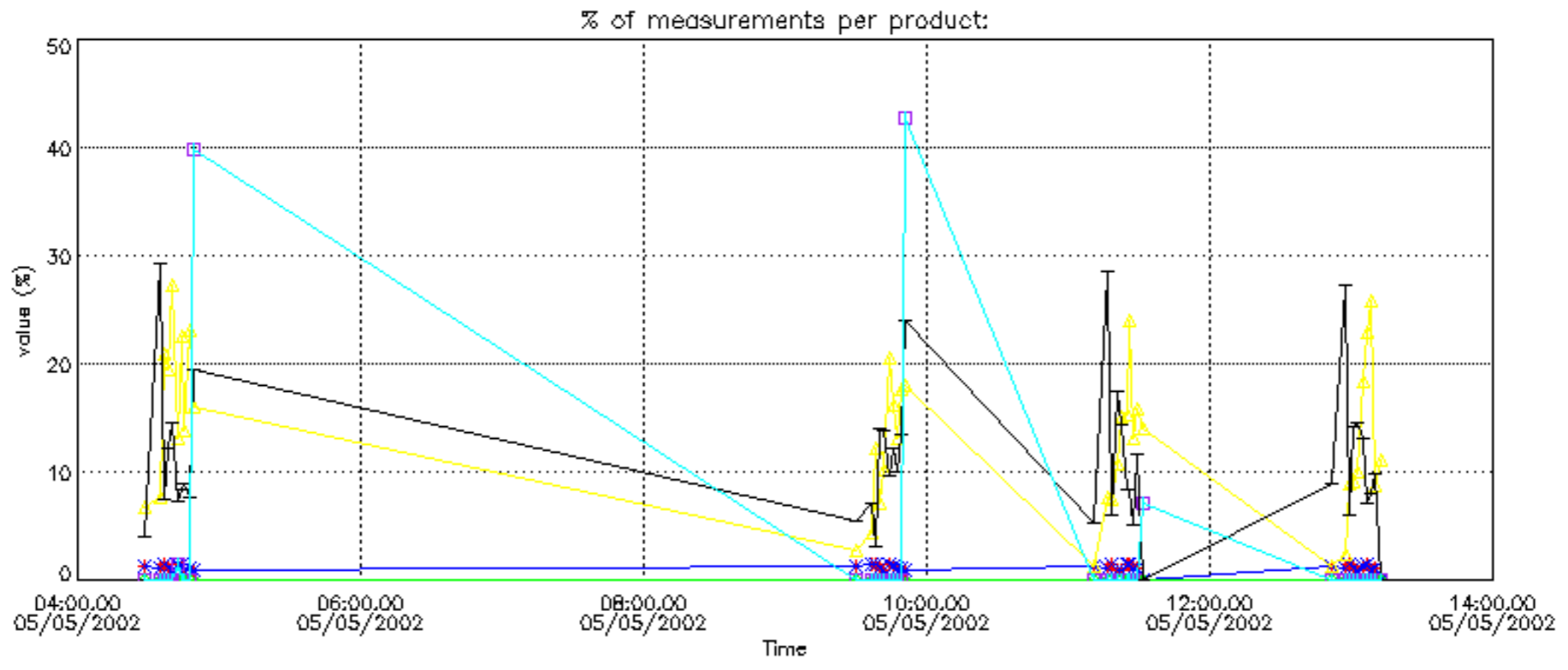


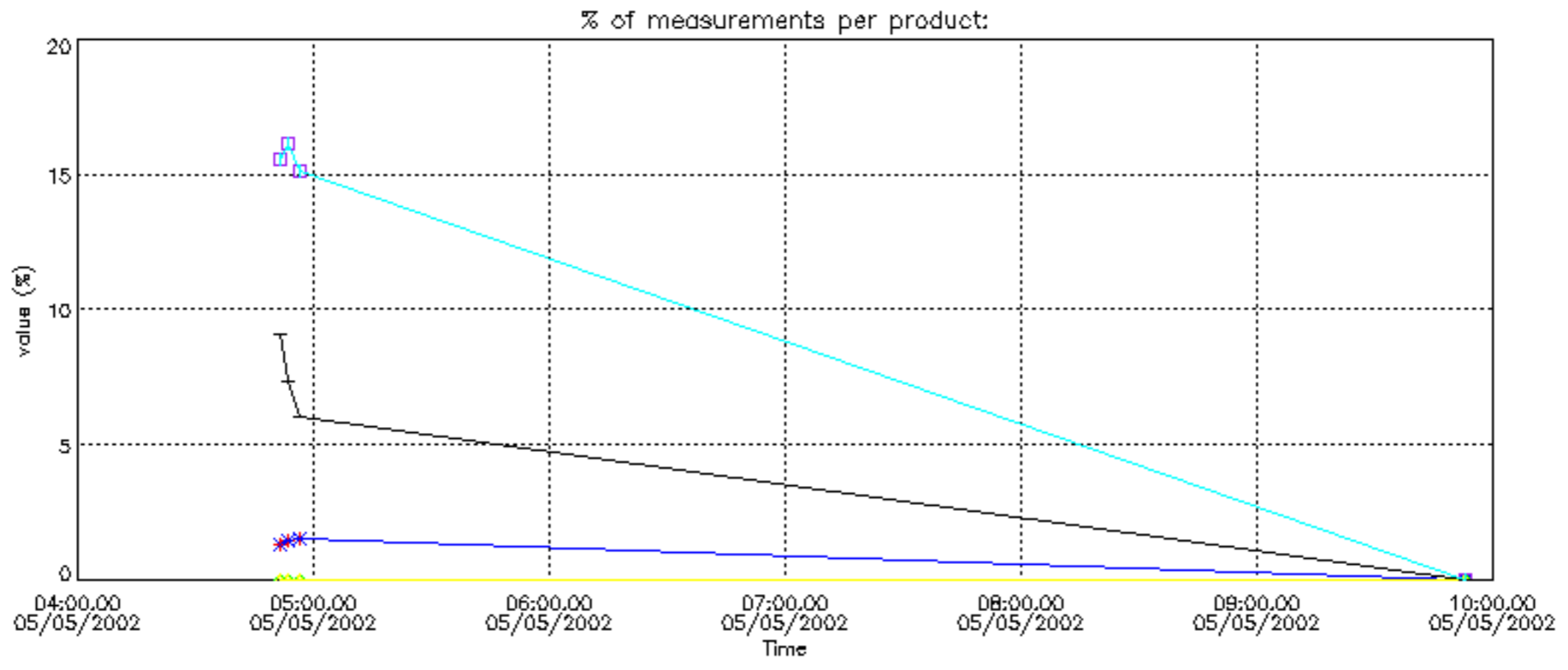
Percentage of flagged data per NO2 profile



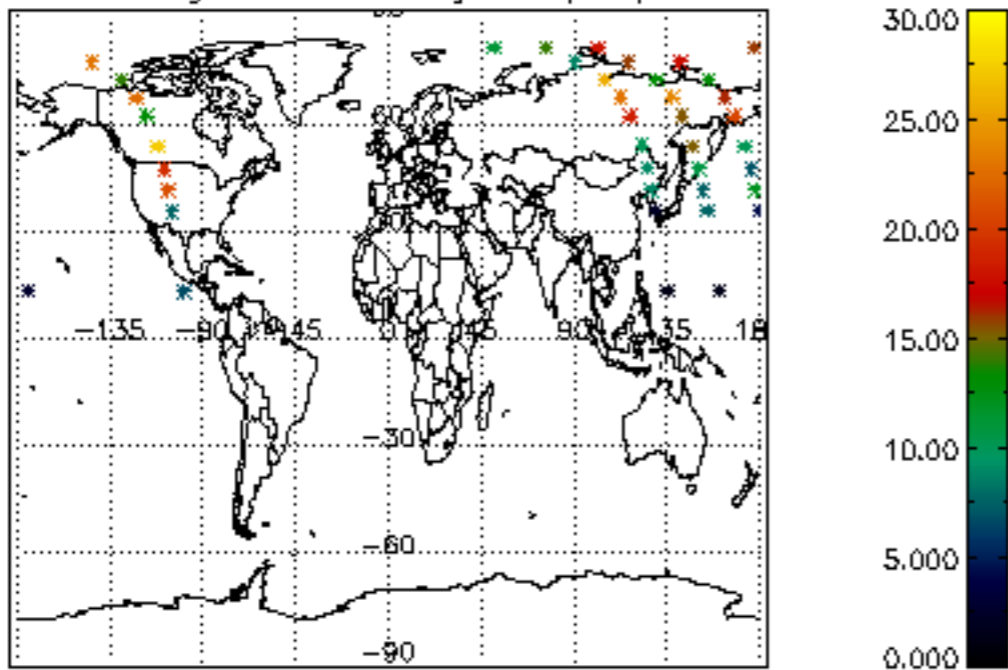
Percentage of flagged data per NO3 profile



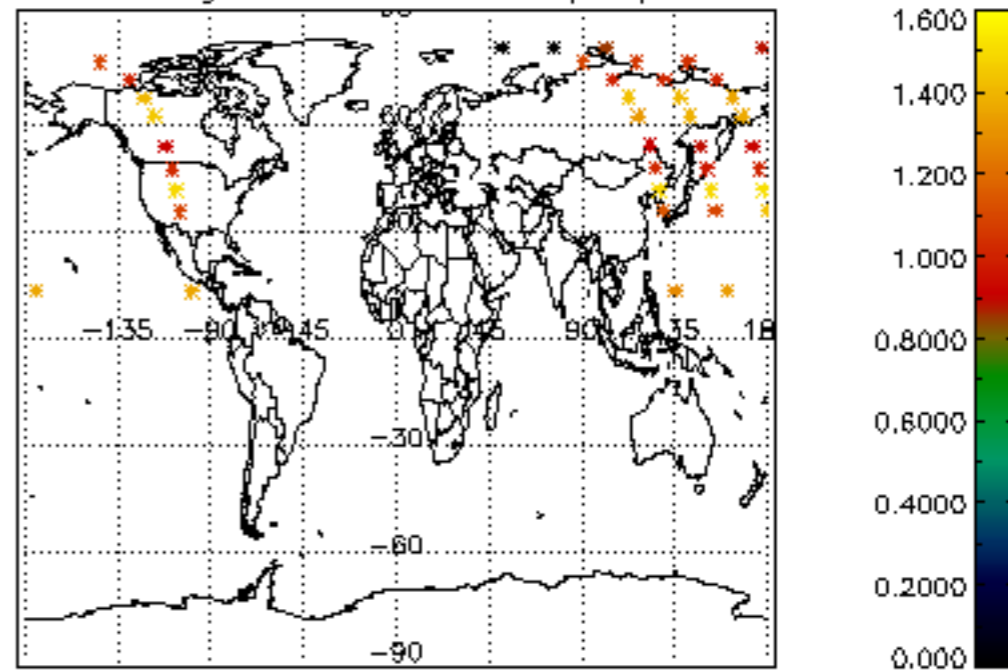




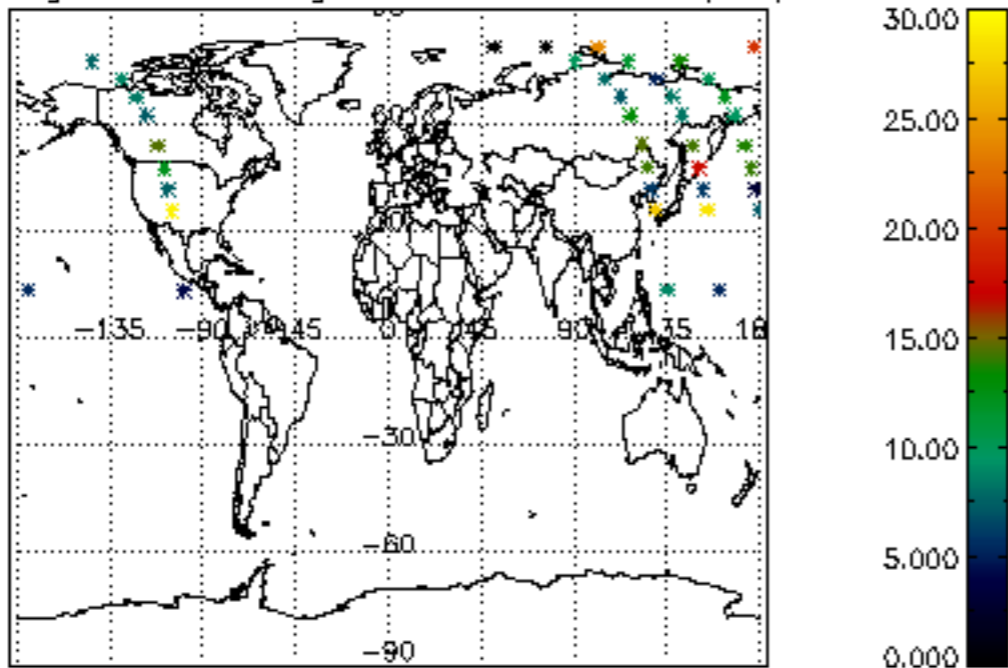
Percentage of cosmic ray hits per profile



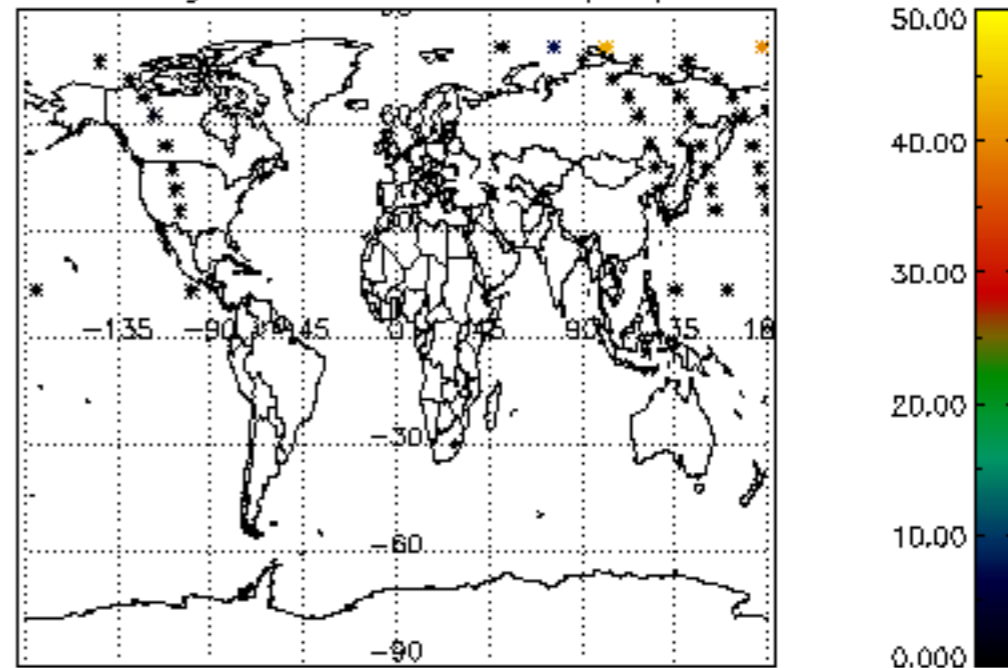
Percentage of datation errors per profile



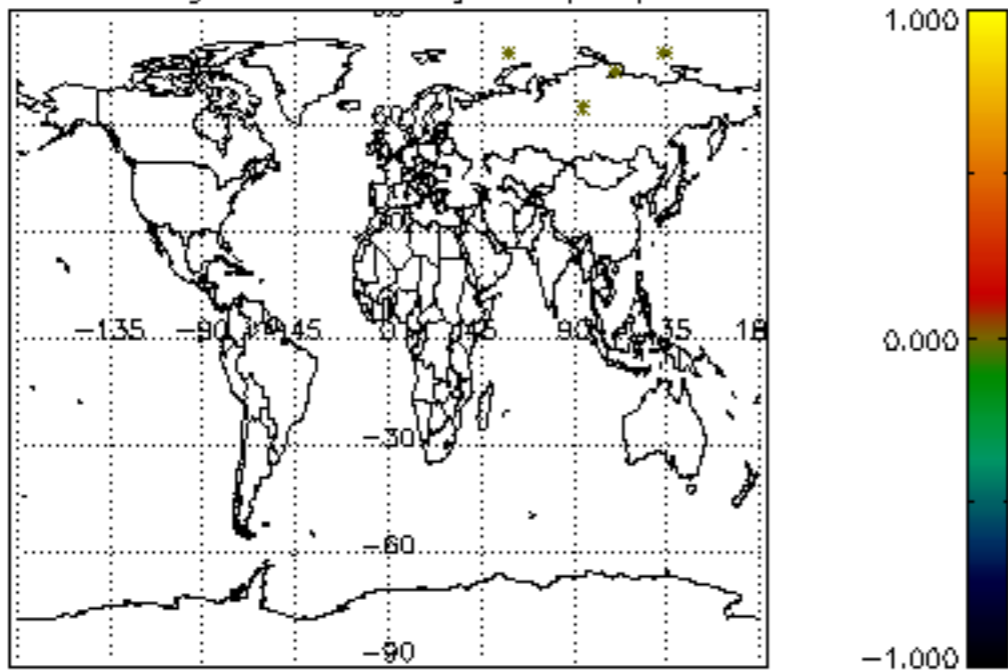
Percentage of star falling outside central band per profile



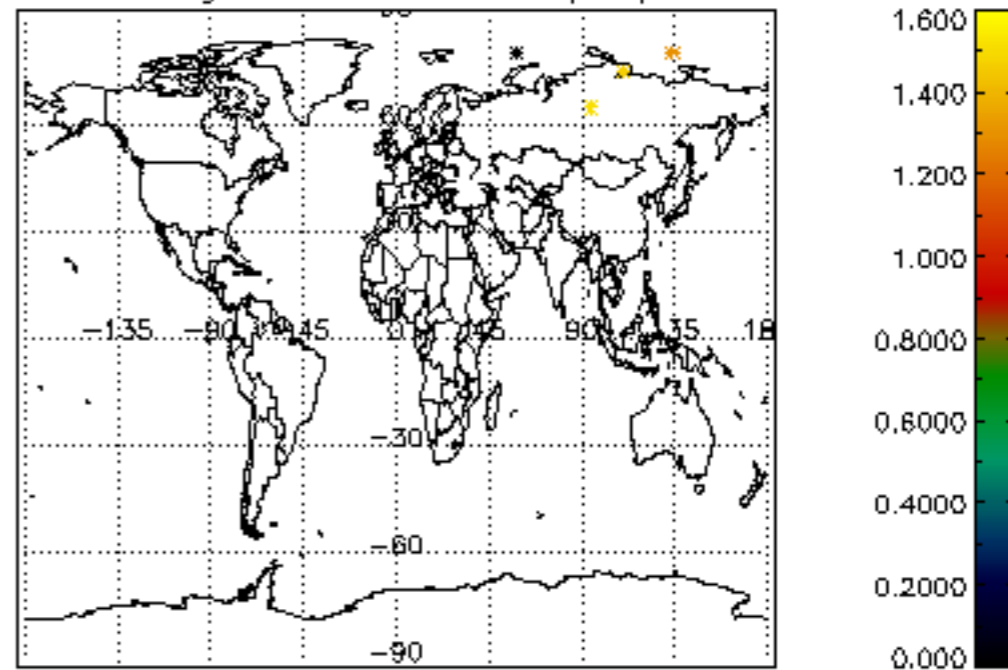
Percentage of saturation errors per profile



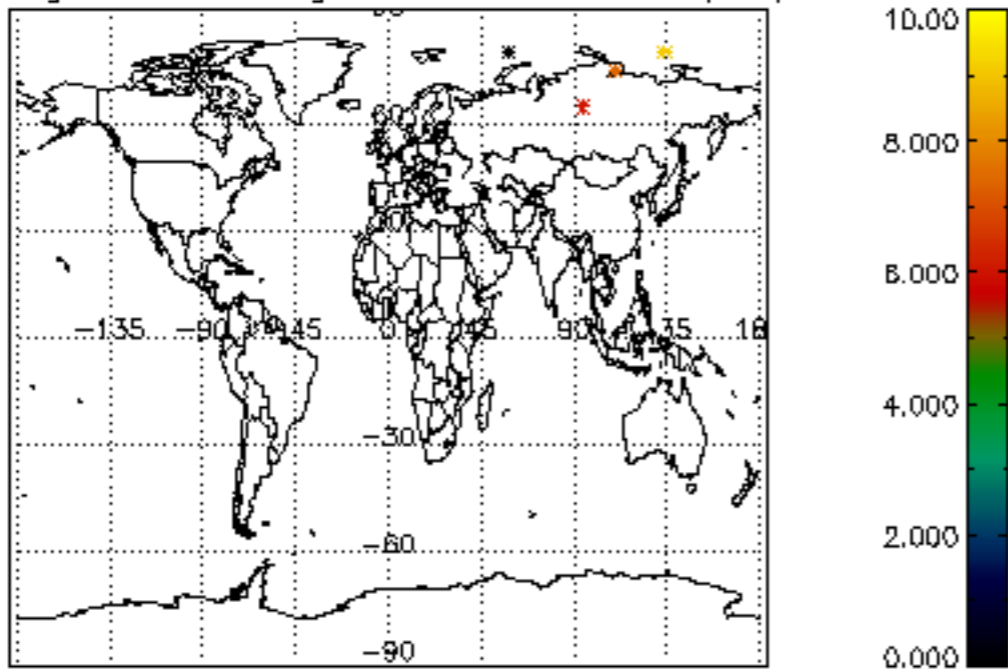
Percentage of cosmic ray hits per profile



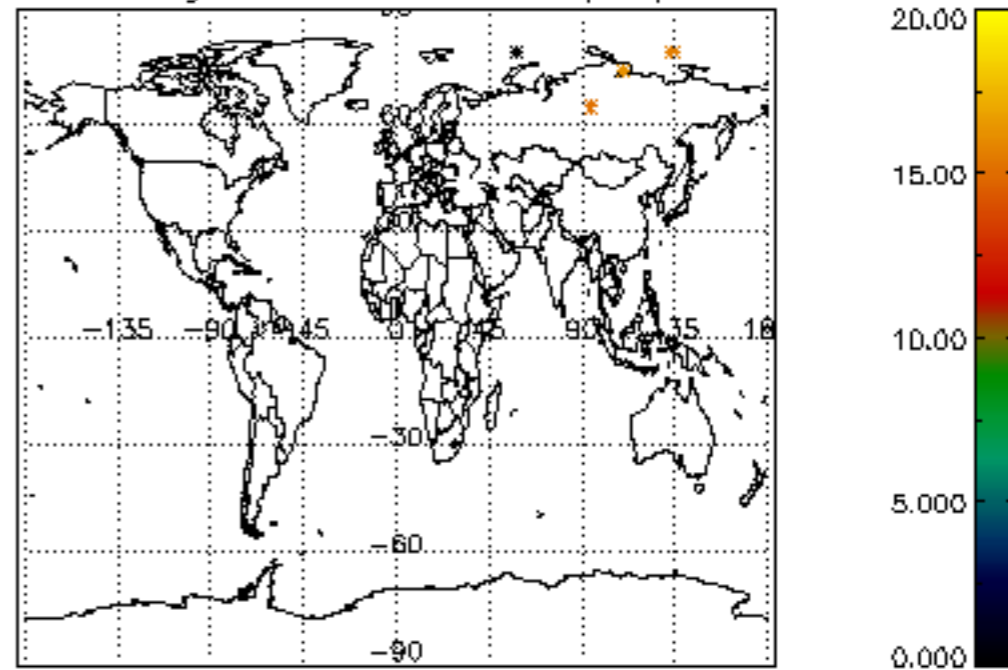
Percentage of datation errors per profile

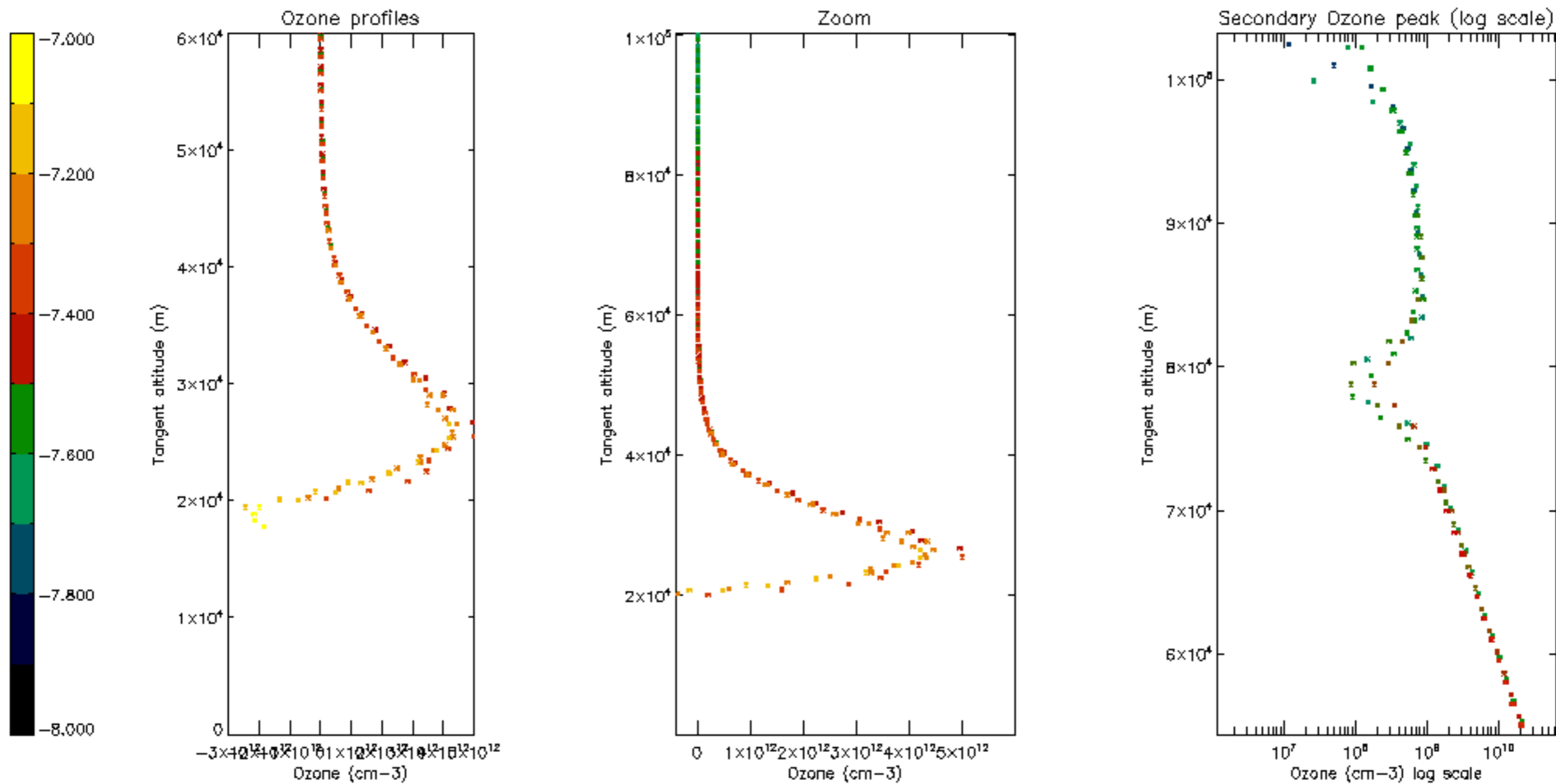


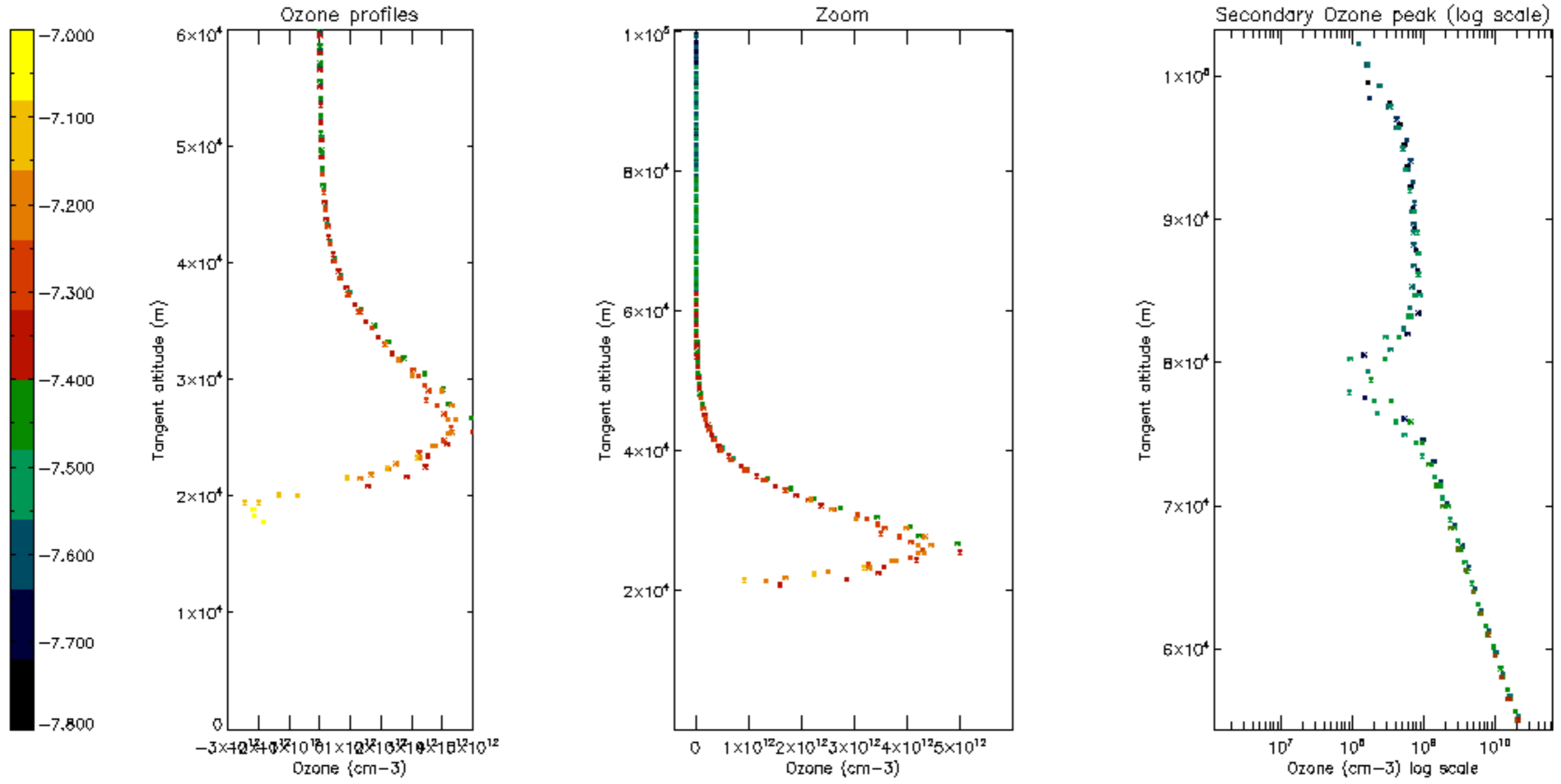
Percentage of star falling outside central band per profile

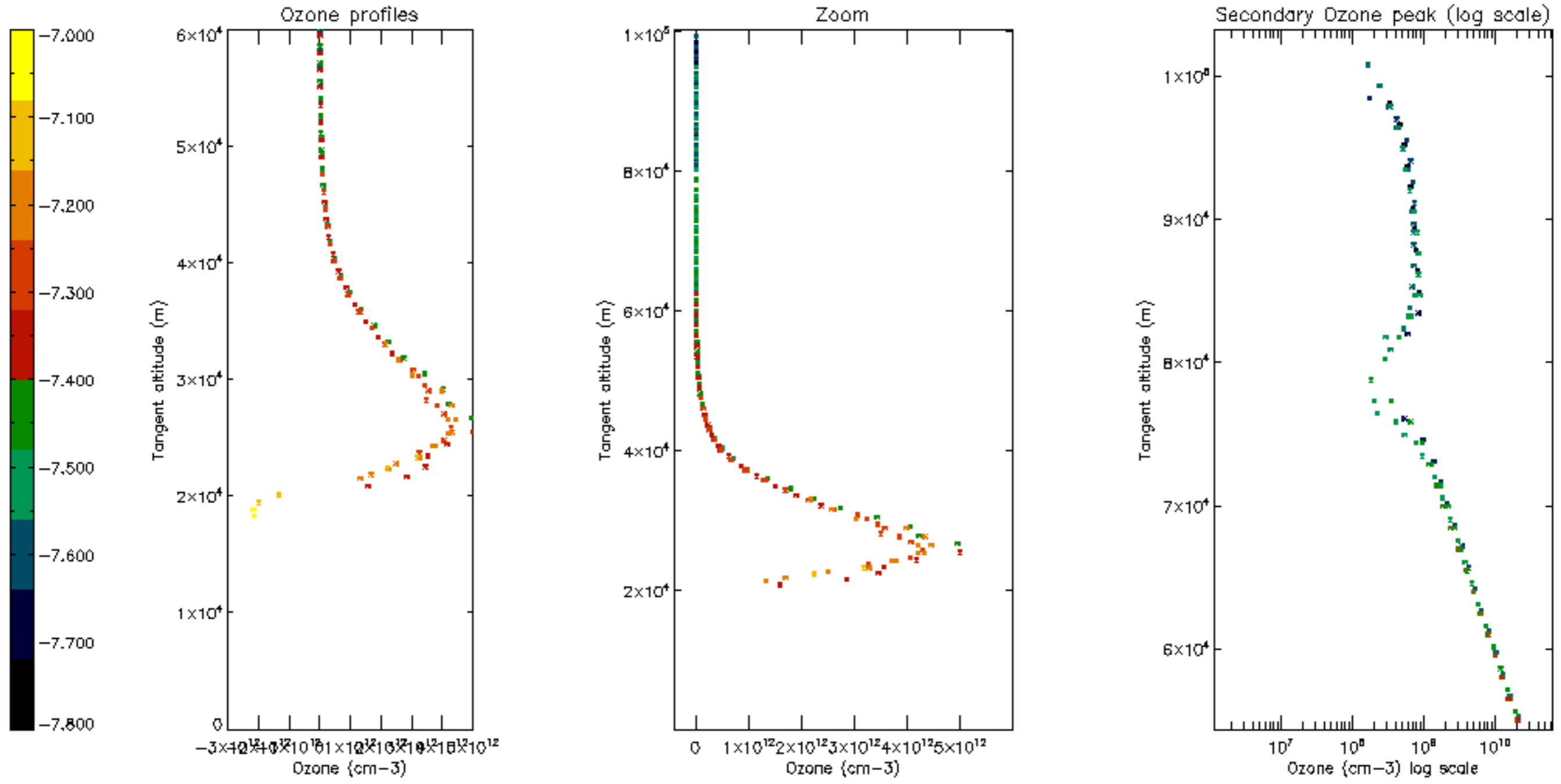


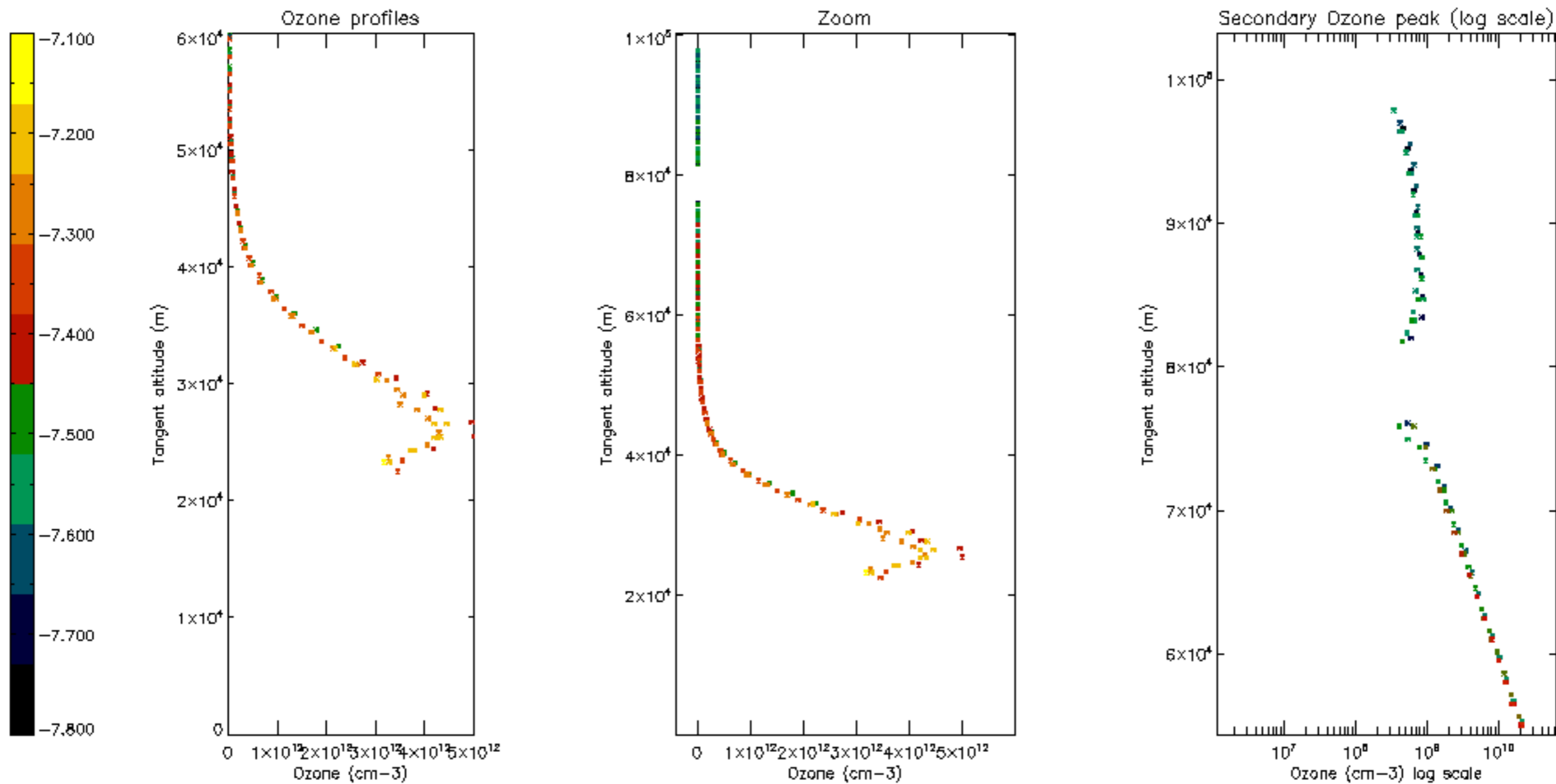
Percentage of saturation errors per profile

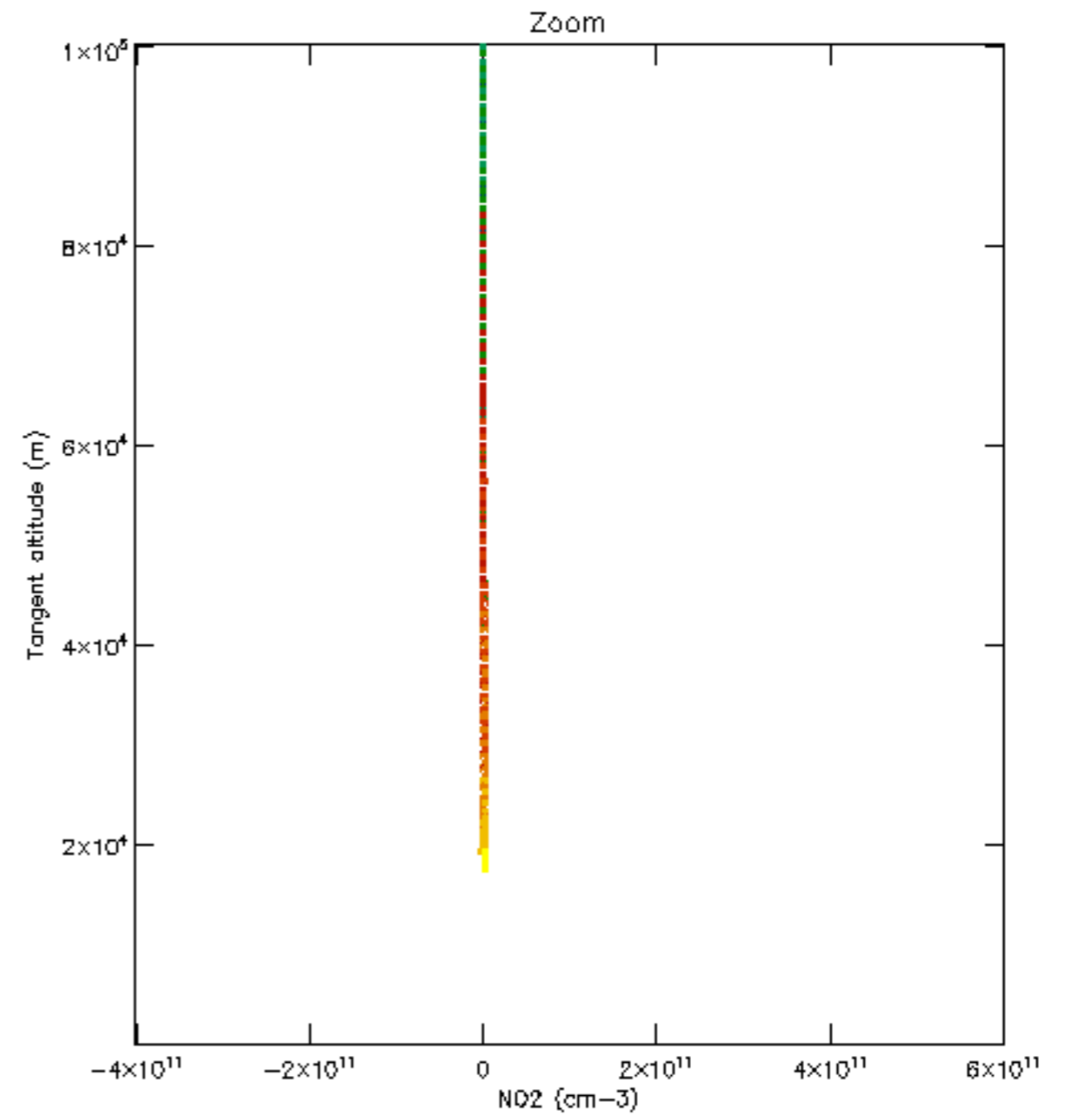
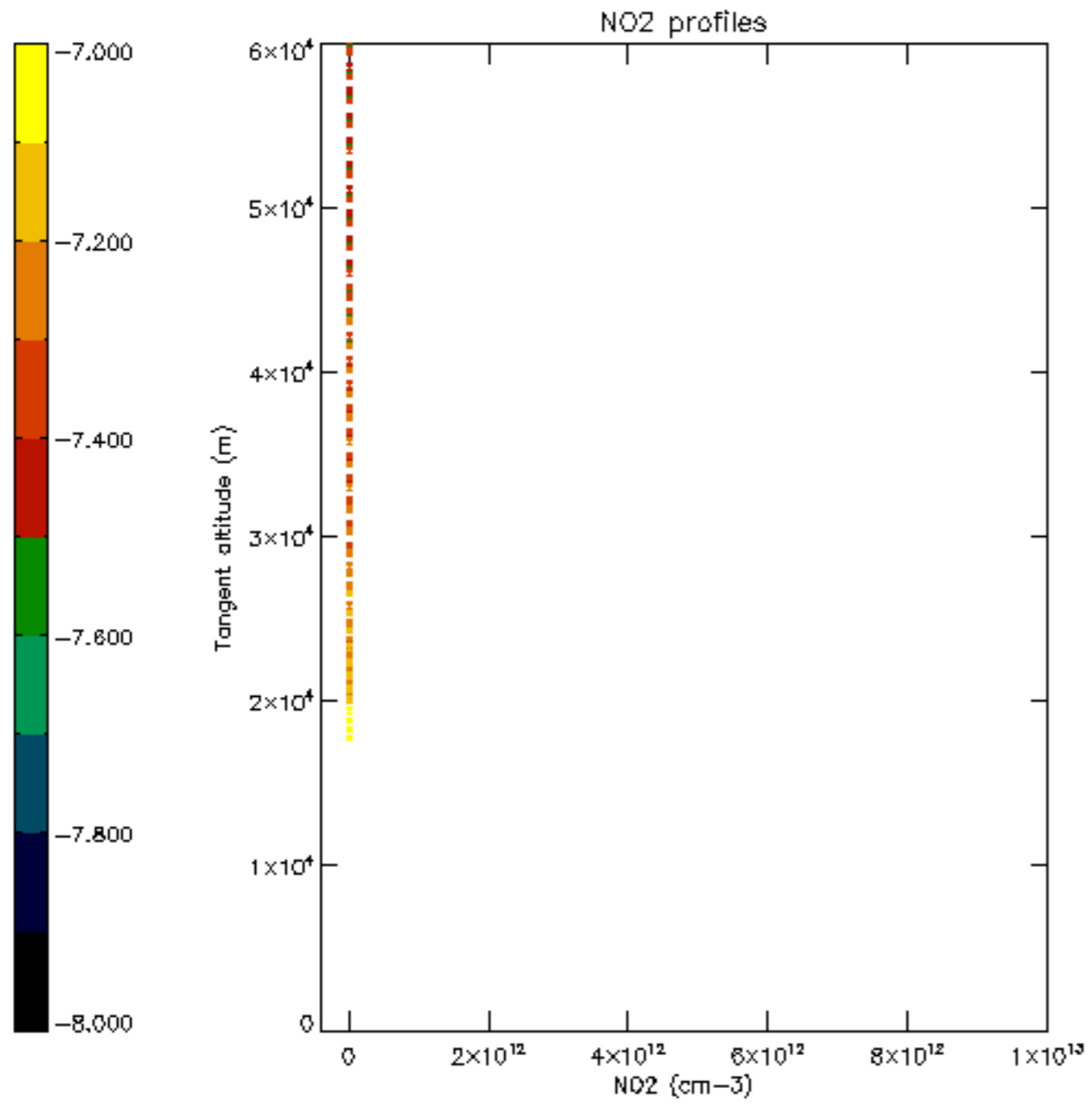


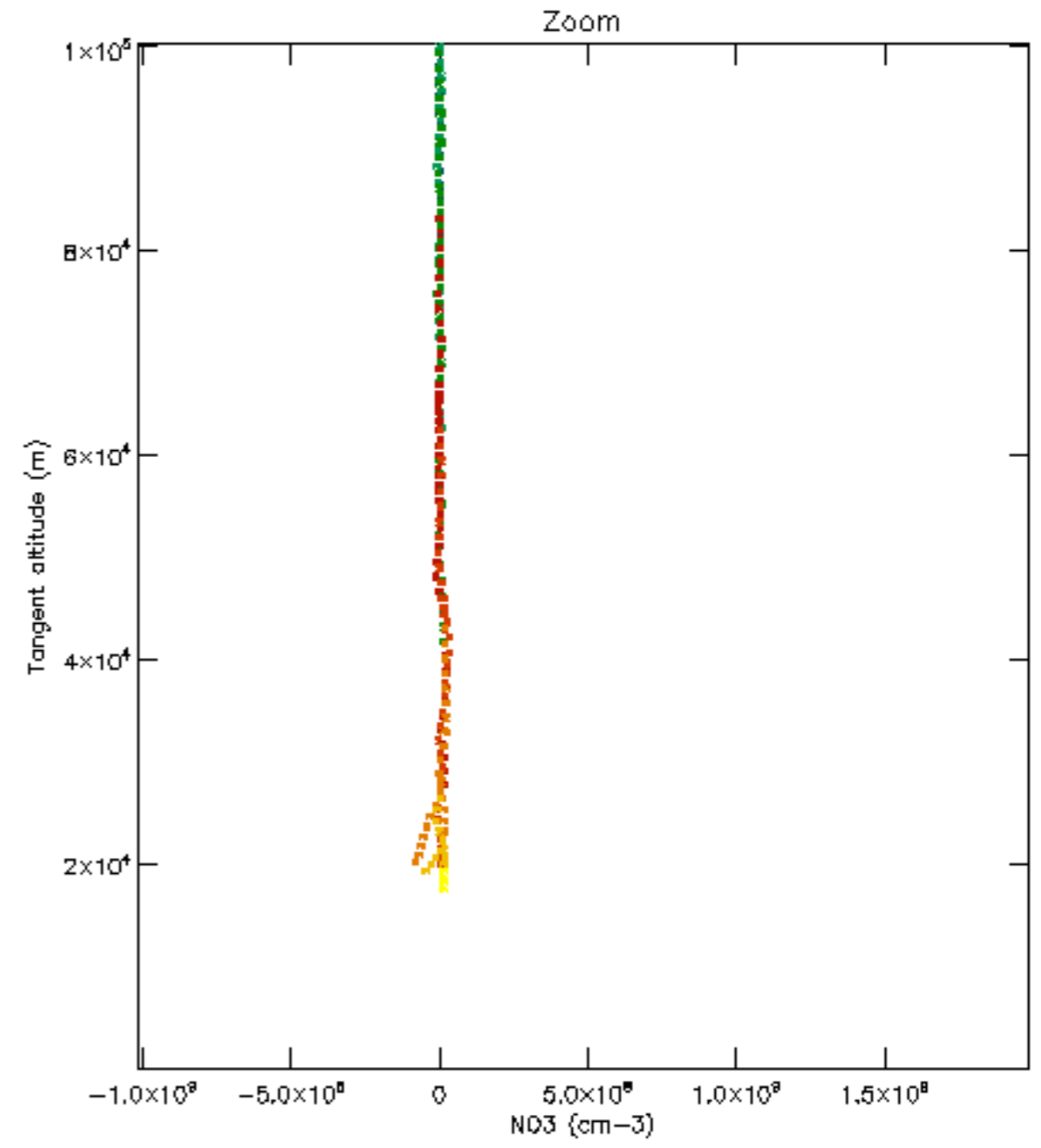
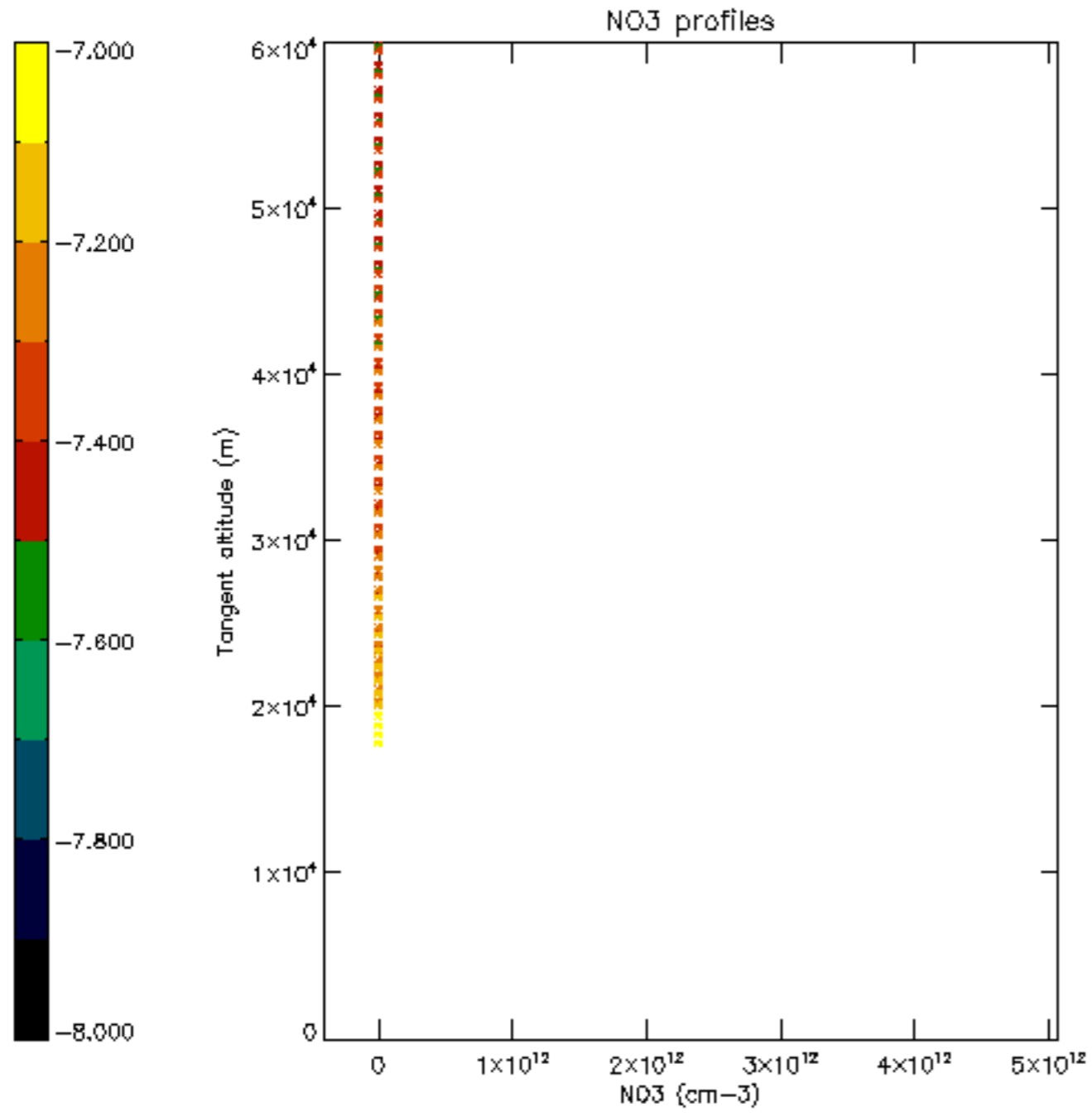


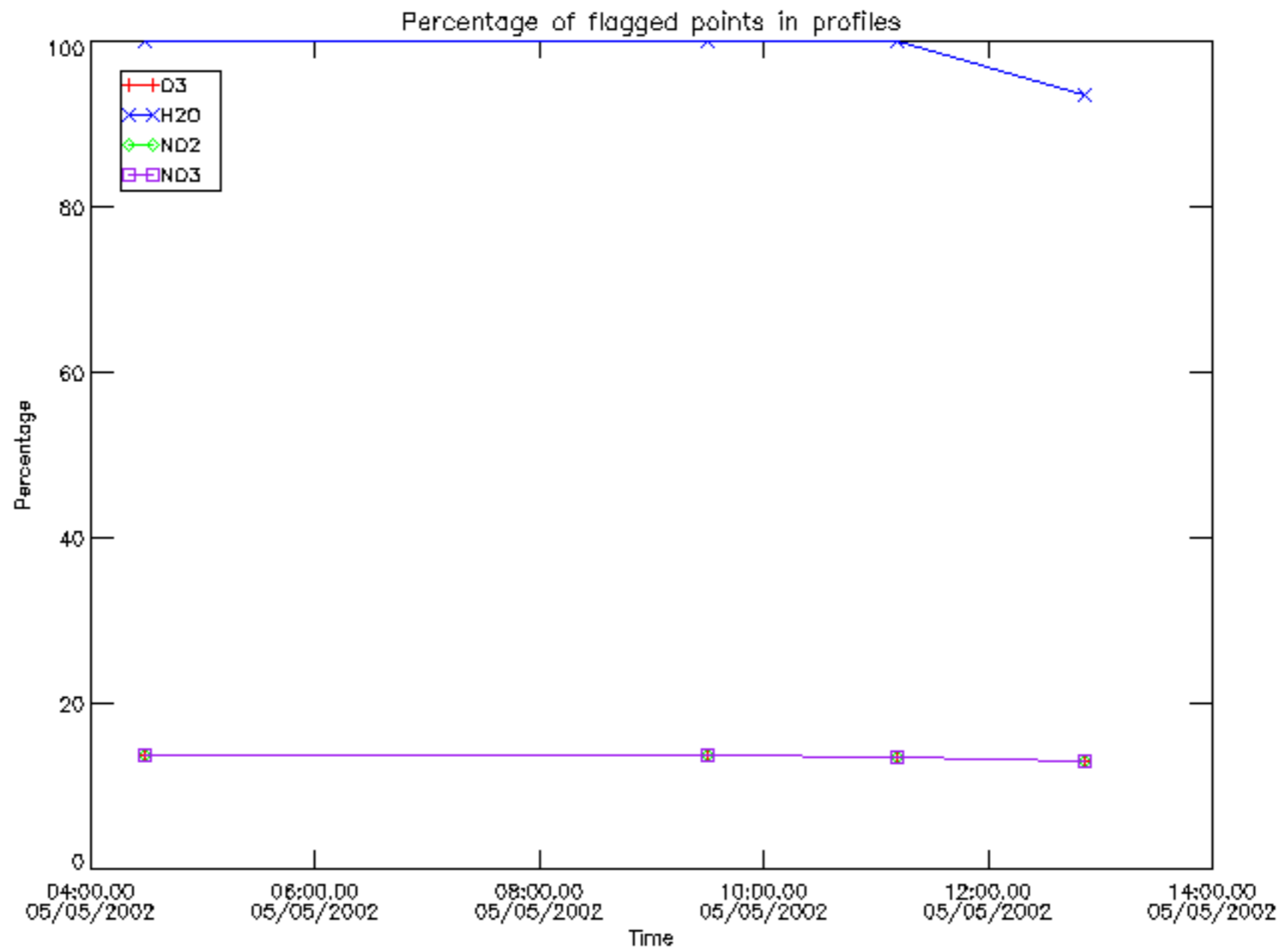




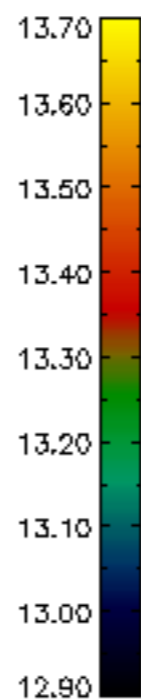
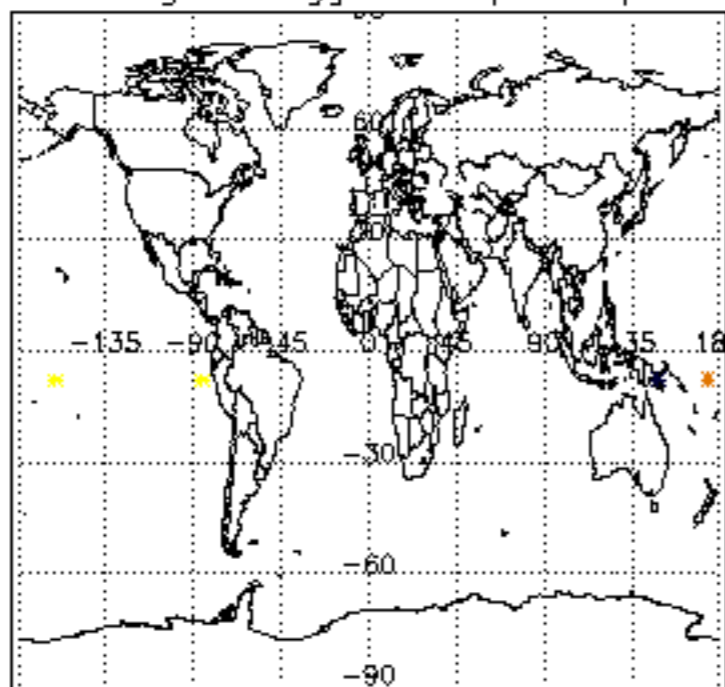




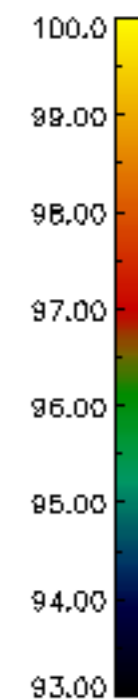
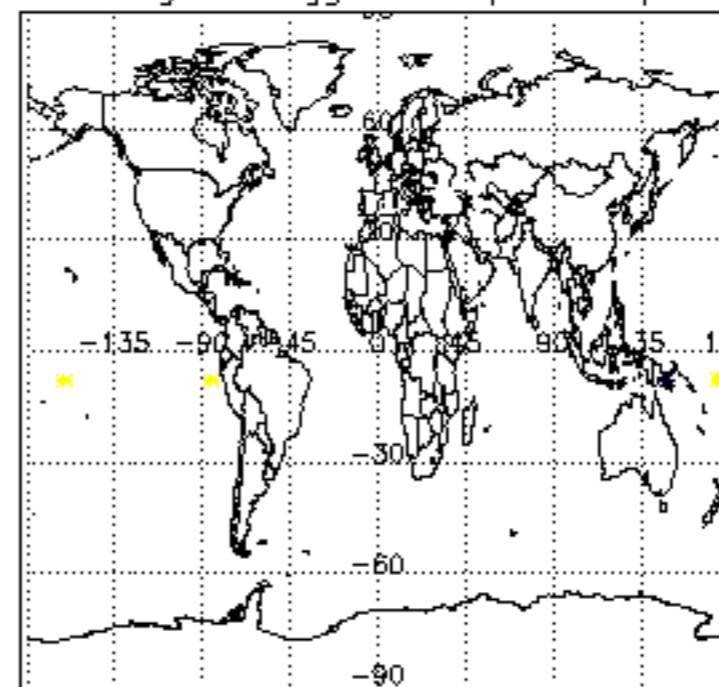




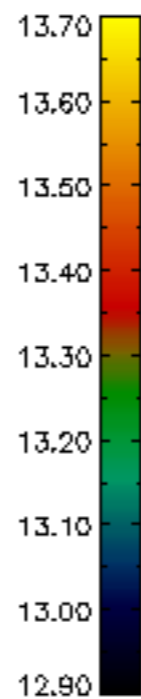
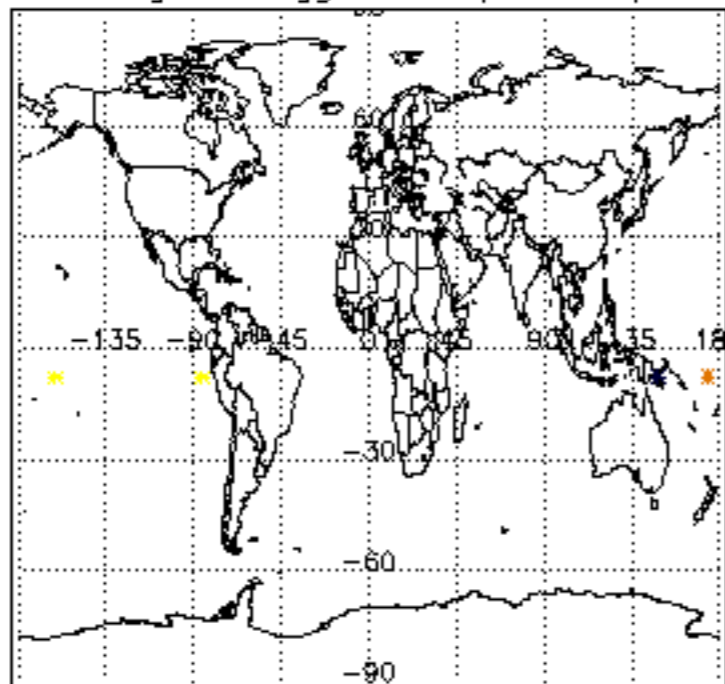
Percentage of flagged data per D3 profile



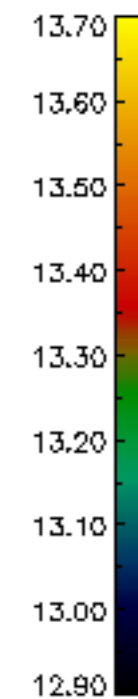
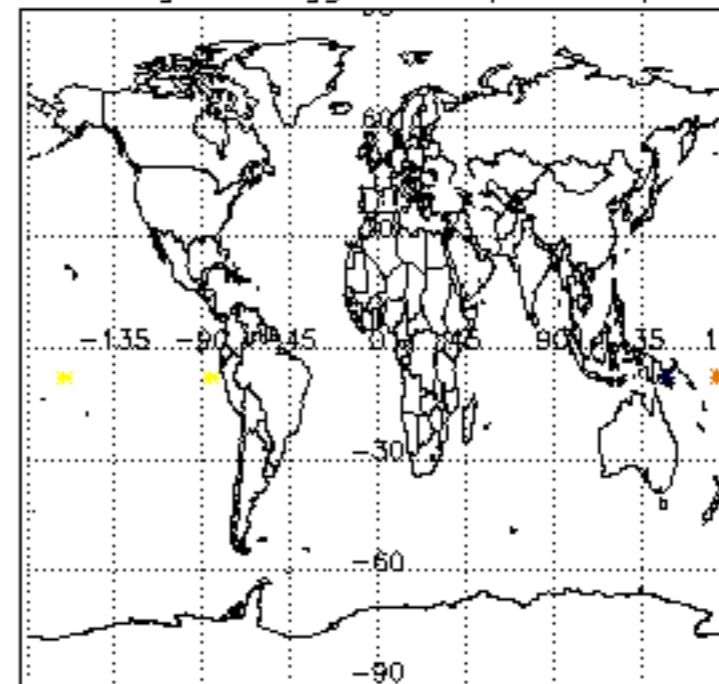
Percentage of flagged data per H2O profile

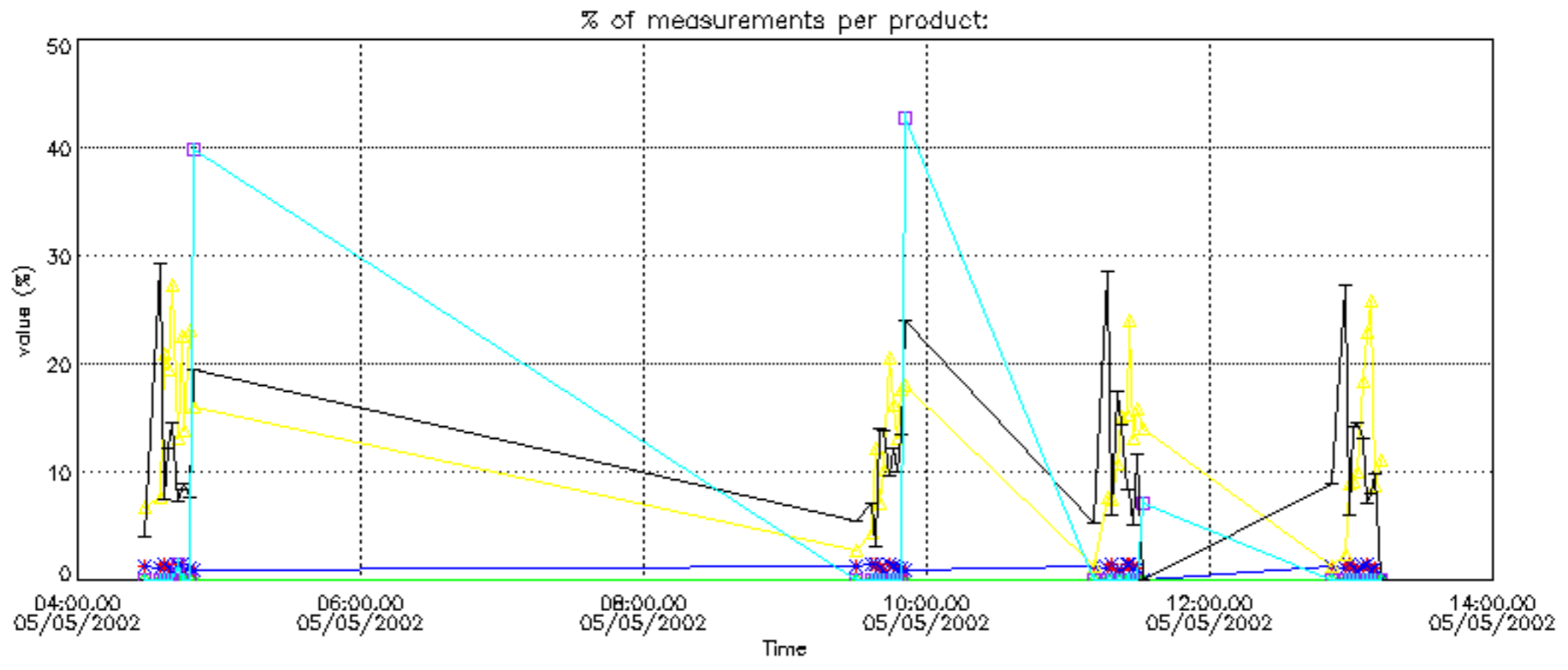


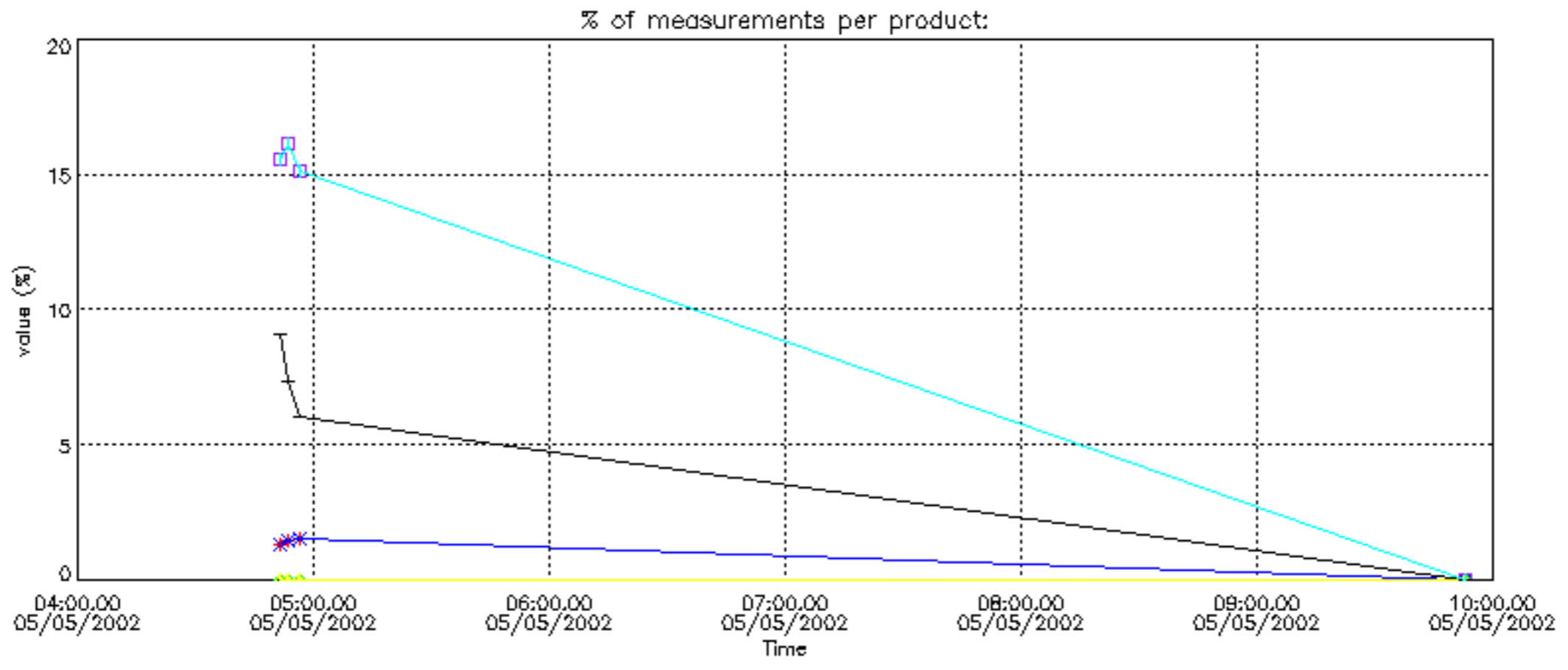
Percentage of flagged data per NO2 profile



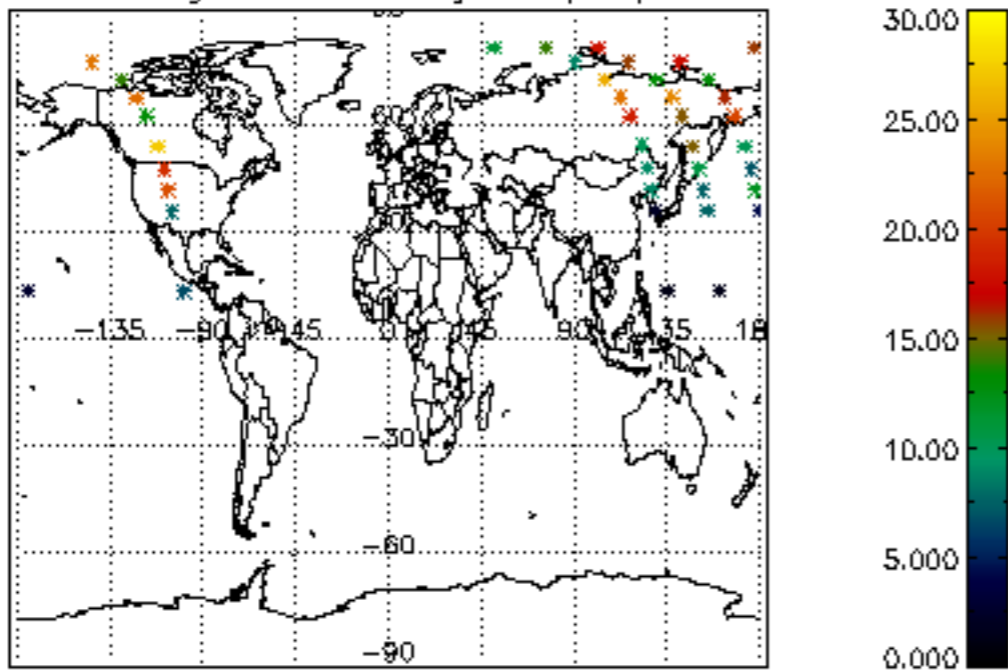
Percentage of flagged data per NO3 profile



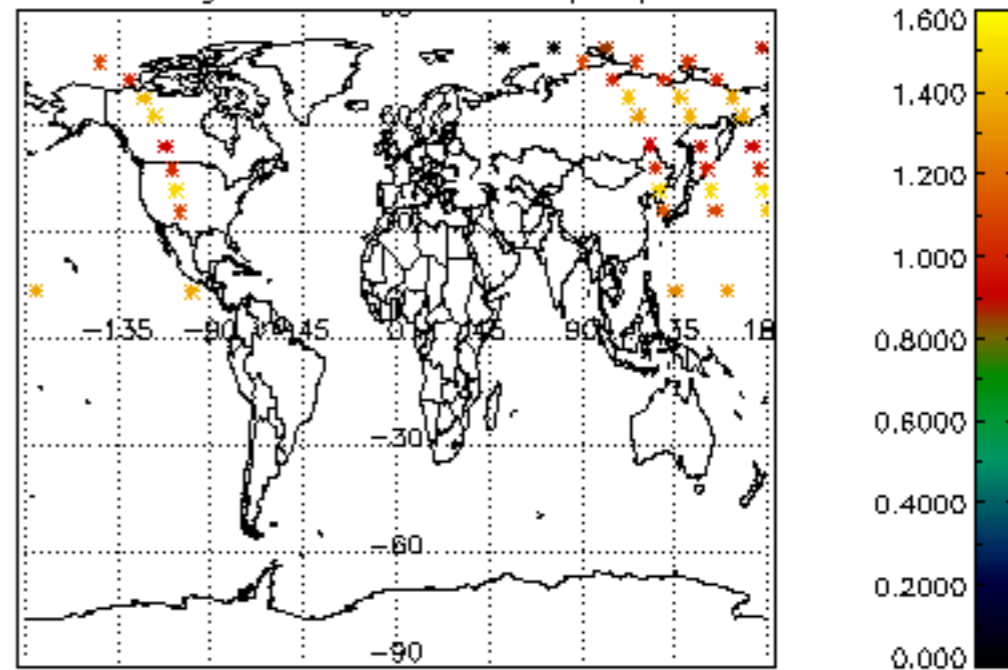




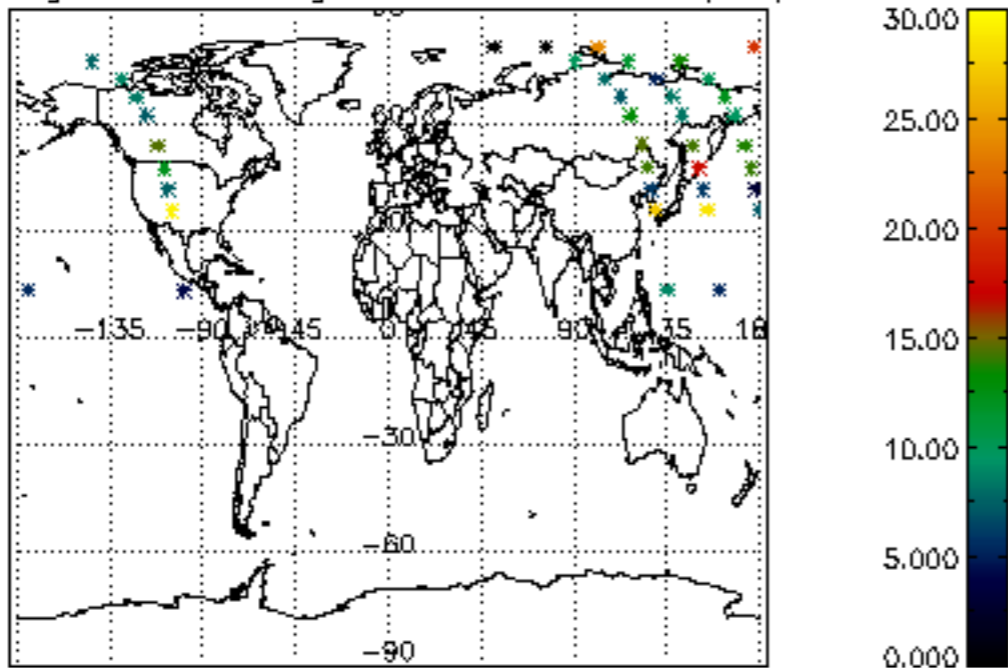
Percentage of cosmic ray hits per profile



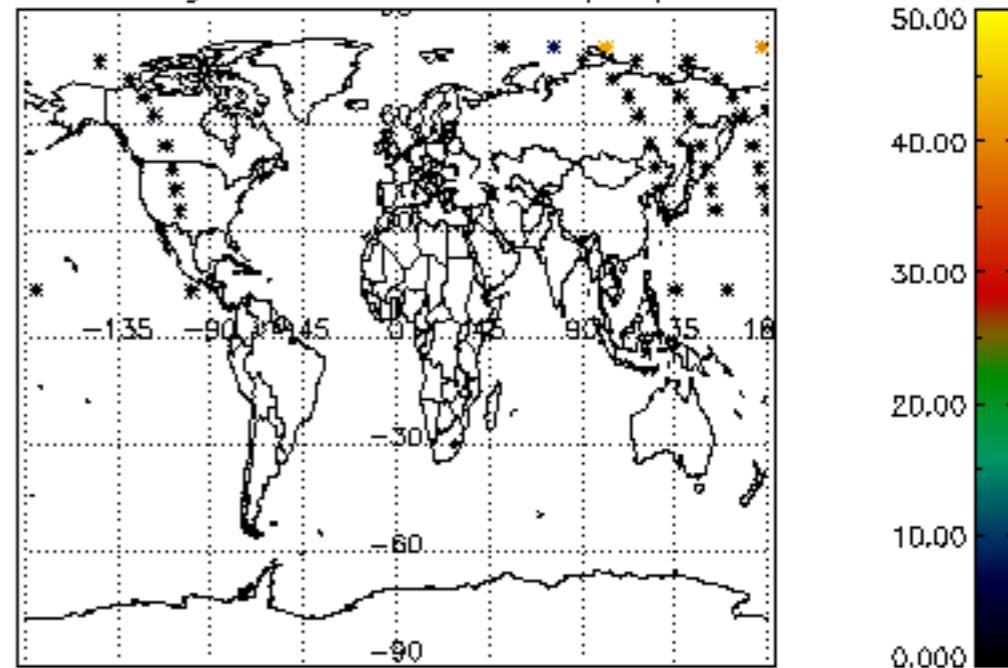
Percentage of datation errors per profile



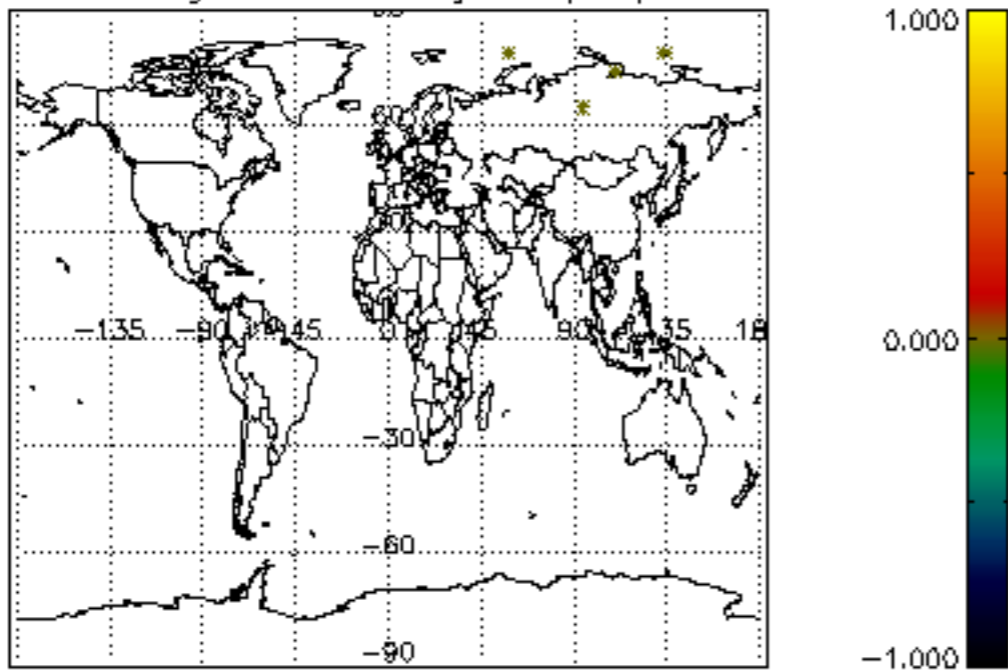
Percentage of star falling outside central band per profile



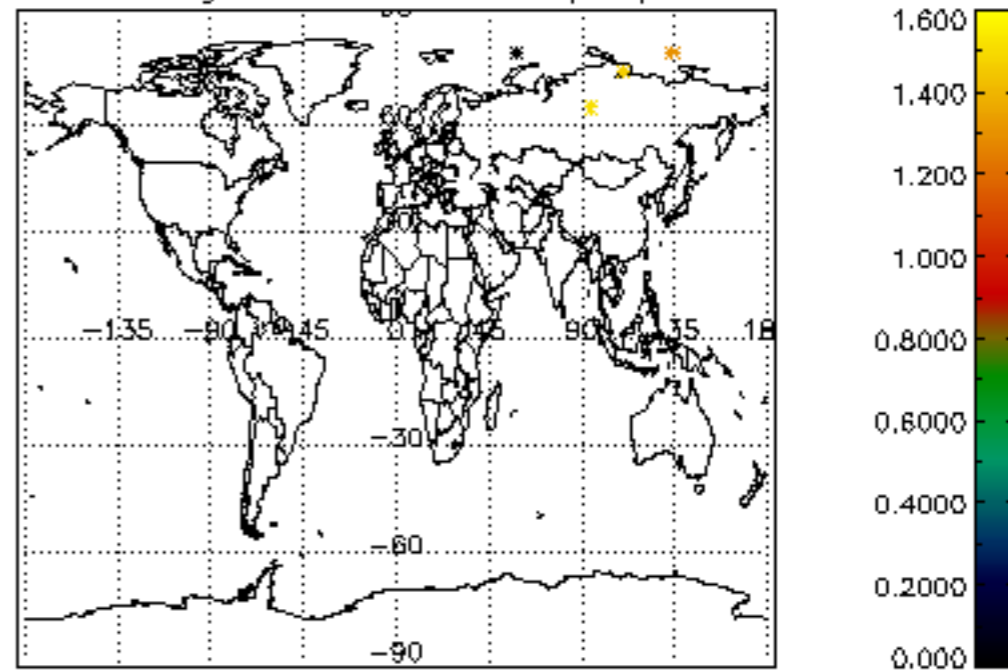
Percentage of saturation errors per profile



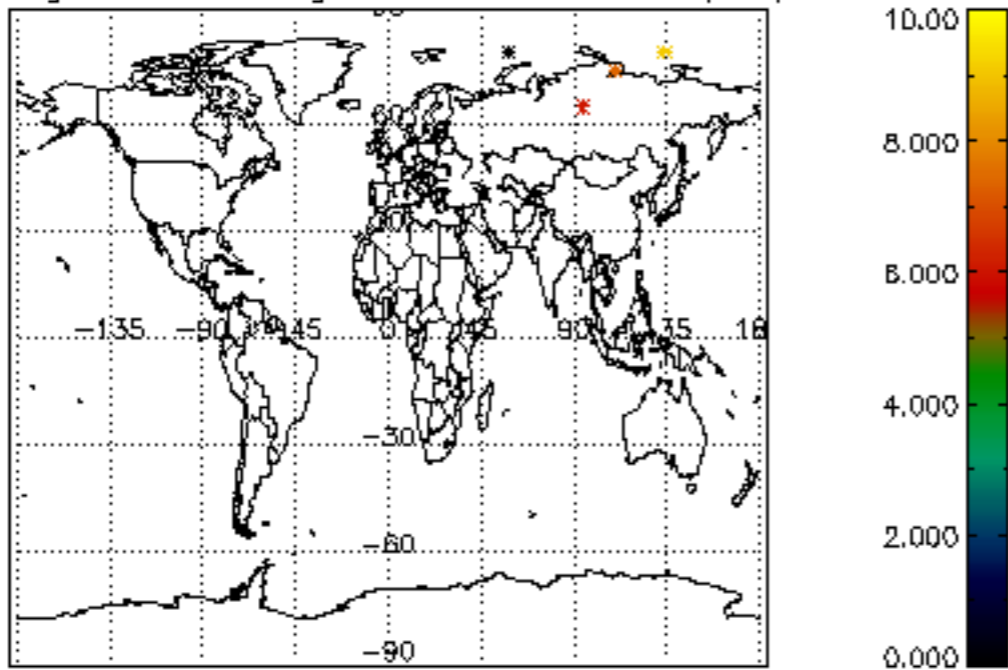
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

