

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	19APR2013 11:56:08
Data source version	GOMOS/6.01
Start time of products	20-03-2003 (20MAR2003 00:00:00)
Stop time of products	21-03-2003 (21MAR2003 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	38
Nb of prods with errors	1

2. Summary of processed GOM_NL__2P products.

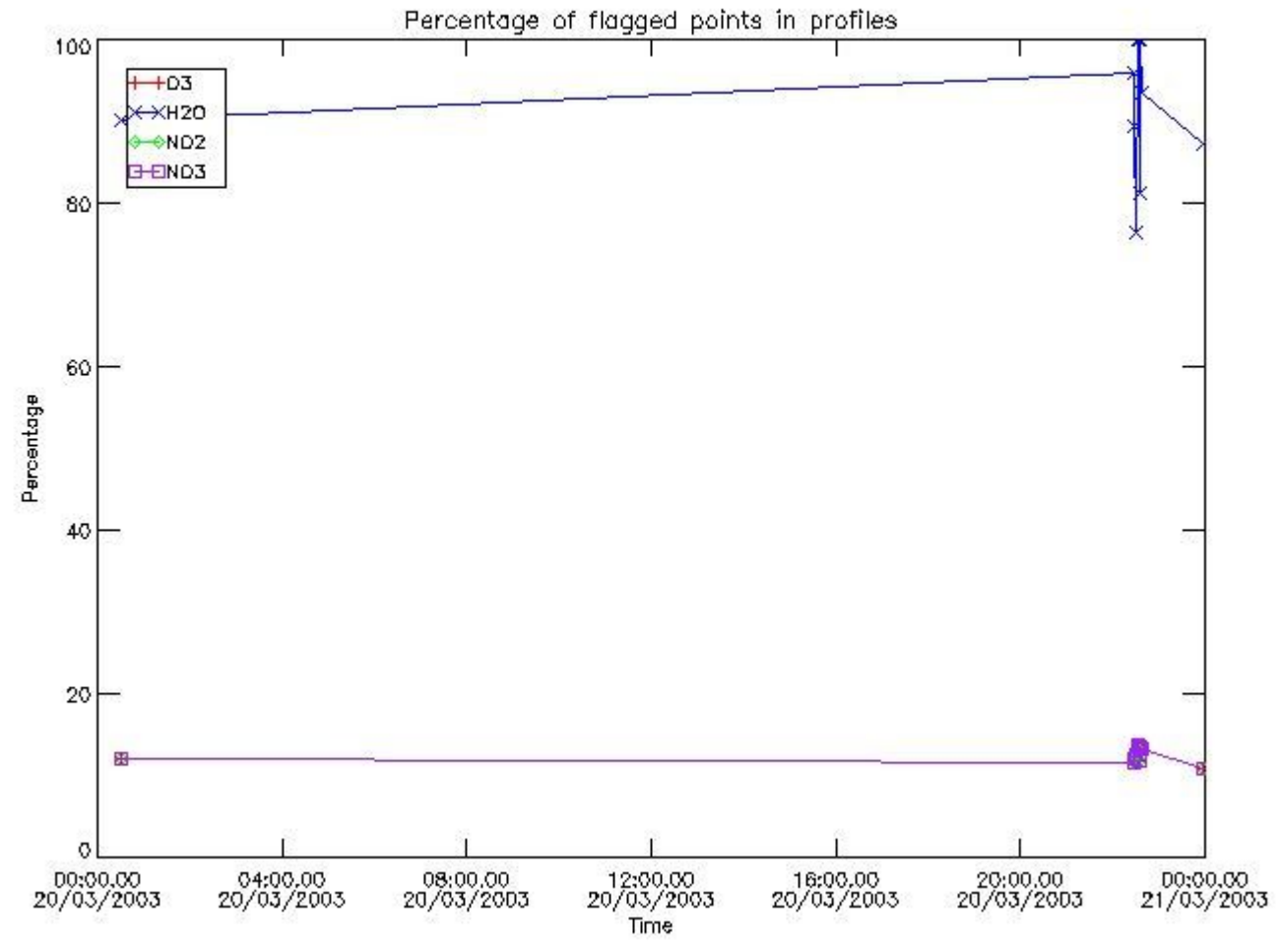
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20030320_000121_000000352014_00431_05495_6341.N1	20-MAR-2003 00:01:21	Bright	35.000	74	11Bet Cas	2.2680	6600.0	70	5495	No
2	GOM_NL__2PRFIN20030320_000339_000000532014_00431_05495_6342.N1	20-MAR-2003 00:03:39	Bright	53.000	69	33Gam Dra	2.2310	3800.0	106	5495	No
3	GOM_NL__2PRFIN20030320_000715_000000382014_00431_05495_6343.N1	20-MAR-2003 00:07:15	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	5495	No
4	GOM_NL__2PRFIN20030320_000850_000000402014_00431_05495_6344.N1	20-MAR-2003 00:08:50	Bright	39.500	66	37Gam Cyg	2.2080	5900.0	79	5495	No
5	GOM_NL__2PRFIN20030320_001036_000000392014_00431_05495_6345.N1	20-MAR-2003 00:10:36	Bright	39.000	92	53Eps Cyg	2.5000	4500.0	78	5495	No
6	GOM_NL__2PRFIN20030320_001912_000000552014_00431_05495_6346.N1	20-MAR-2003 00:19:12	Twilight	54.500	11	53Alp Aql	0.76500	8000.0	109	5495	No
7	GOM_NL__2PRFIN20030320_002942_000000472014_00431_05495_6347.N1	20-MAR-2003 00:29:42	Dark	46.500	155	41Pi Sgr	2.9000	6600.0	93	5495	No
8	GOM_NL__2PRFIN20030320_003200_000000682014_00431_05495_6348.N1	20-MAR-2003 00:32:00	Dark	68.000	1014	Mars	0.0000	0.0000	136	5495	Yes
9	GOM_NL__2PRFIN20030320_222629_000000482014_00445_05509_6313.N1	20-MAR-2003 22:26:29	Dark	48.000	178	lot1Sco	3.0220	6550.0	96	5509	No
10	GOM_NL__2PRFIN20030320_222901_000000432014_00445_05509_6314.N1	20-MAR-2003 22:29:01	Dark	42.500	141	Bet Ara	2.8400	4600.0	85	5509	No
11	GOM_NL__2PRFIN20030320_223101_000000412014_00445_05509_6315.N1	20-MAR-2003 22:31:01	Dark	40.500	43	Alp TrA	1.9100	4250.0	81	5509	No
12	GOM_NL__2PRFIN20030320_223234_000000412014_00445_05509_6316.N1	20-MAR-2003 22:32:34	Dark	41.000	134	Bet TrA	2.8100	6600.0	82	5509	No
13	GOM_NL__2PRFIN20030320_223518_000000432014_00445_05509_6317.N1	20-MAR-2003 22:35:18	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	5509	No
14	GOM_NL__2PRFIN20030320_223641_000000382014_00445_05509_6318.N1	20-MAR-2003 22:36:41	Dark	37.500	112	Alp Mus	2.6880	26000.	75	5509	No
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16	GOM_NL__2PRFIN20030320_223933_000000522014_00445_05509_6320.N1	20-MAR-2003 22:39:33	Straylight	52.000	26	Gam Cru	1.6240	2900.0	104	5509	No
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19	GOM_NL__2PRFIN20030320_224910_000000502014_00445_05509_6323.N1	20-MAR-2003 22:49:10	Straylight	50.000	106	9Bet Crv	2.6480	5600.0	100	5509	No
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21	GOM_NL__2PRFIN20030320_225347_000000802014_00445_05509_6325.N1	20-MAR-2003 22:53:47	Bright	80.000	15	67Alp Vir	0.97600	28000.	160	5509	No
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23	GOM_NL__2PRFIN20030320_230041_000000382014_00445_05509_6327.N1	20-MAR-2003 23:00:41	Bright	37.500	22	32Alp Leo	1.3600	15200.	75	5509	No
24	GOM_NL__2PRFIN20030320_230251_000000382014_00445_05509_6328.N1	20-MAR-2003 23:02:51	Bright	37.500	51	41Gam1Leo	2.0100	4500.0	75	5509	No
25	GOM_NL__2PRFIN20030320_230407_000000372014_00445_05509_6329.N1	20-MAR-2003 23:04:07	Bright	36.500	166	17Eps Leo	2.9800	6000.0	73	5509	No
26	GOM_NL__2PRFIN20030320_231018_000000382014_00445_05509_6330.N1	20-MAR-2003 23:10:18	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	5509	No
27	GOM_NL__2PRFIN20030320_231333_000000382014_00445_05509_6331.N1	20-MAR-2003 23:13:33	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	5509	No
28	GOM_NL__2PRFIN20030320_231504_000000382014_00445_05509_6332.N1	20-MAR-2003 23:15:04	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	5509	No
29	GOM_NL__2PRFIN20030320_231714_000000482014_00445_05509_6333.N1	20-MAR-2003 23:17:14	Bright	47.500	55	79Zet UMa	2.0600	10200.	95	5509	No
30	GOM_NL__2PRFIN20030320_232159_000000392014_00445_05509_6334.N1	20-MAR-2003 23:21:59	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	5509	No
31	GOM_NL__2PRFIN20030320_232547_000000492014_00445_05509_6335.N1	20-MAR-2003 23:25:47	Bright	48.500	119	14Eta Dra	2.7270	4700.0	97	5509	No
32	GOM_NL__2PRFIN20030320_232948_000000372014_00445_05509_6336.N1	20-MAR-2003 23:29:48	Bright	36.500	74	11Bet Cas	2.2680	6600.0	73	5509	No
33	GOM_NL__2PRFIN20030320_233156_000000542014_00445_05509_6337.N1	20-MAR-2003 23:31:56	Bright	53.500	69	33Gam Dra	2.2310	3800.0	107	5509	No
34	GOM_NL__2PRFIN20030320_233538_000000392014_00445_05509_6338.N1	20-MAR-2003 23:35:38	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	5509	No
35	GOM_NL__2PRFIN20030320_233713_000000412014_00445_05509_6339.N1	20-MAR-2003 23:37:13	Bright	40.500	66	37Gam Cyg	2.2080	5900.0	81	5509	No
36	GOM_NL__2PRFIN20030320_233901_000000362014_00445_05509_6340.N1	20-MAR-2003 23:39:01	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	5509	No
37	GOM_NL__2PRFIN20030320_234742_000000542014_00445_05509_6341.N1	20-MAR-2003 23:47:42	Twilight	54.000	11	53Alp Aql	0.76500	8000.0	108	5509	No
38	GOM_NL__2PRFIN20030320_235818_000000472014_00445_05509_6342.N1	20-MAR-2003 23:58:18	Dark	47.000	155	41Pi Sgr	2.9000	6600.0	94	5509	No

3. Quality information per product

In this section it is plotted some information contained in the Quality Summary data set of

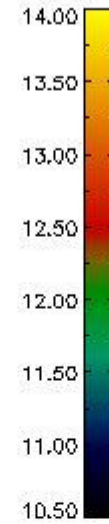
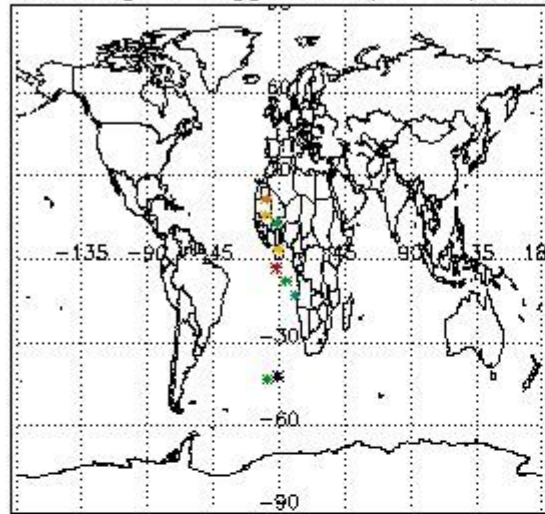
the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

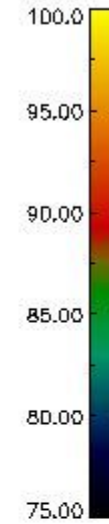
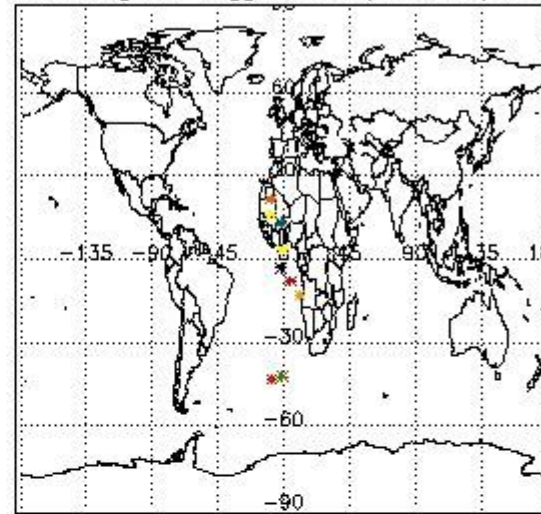


3.2 Plot quality information per product (world map)

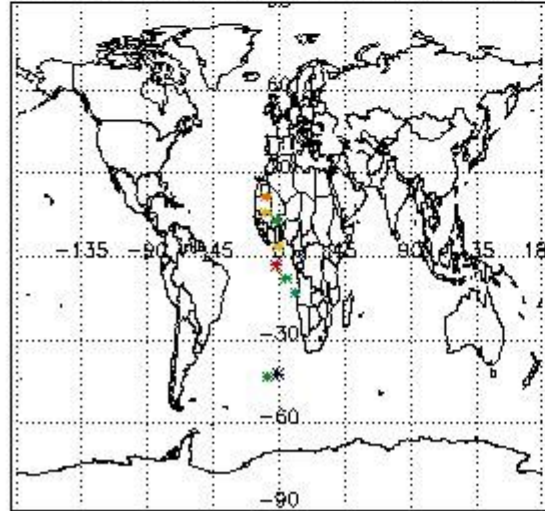
Percentage of flagged data per O3 profile



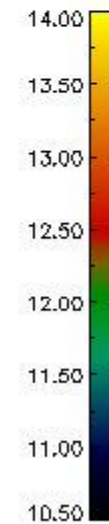
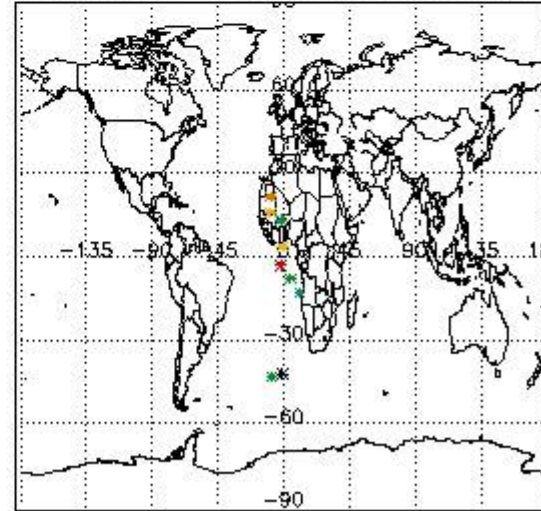
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

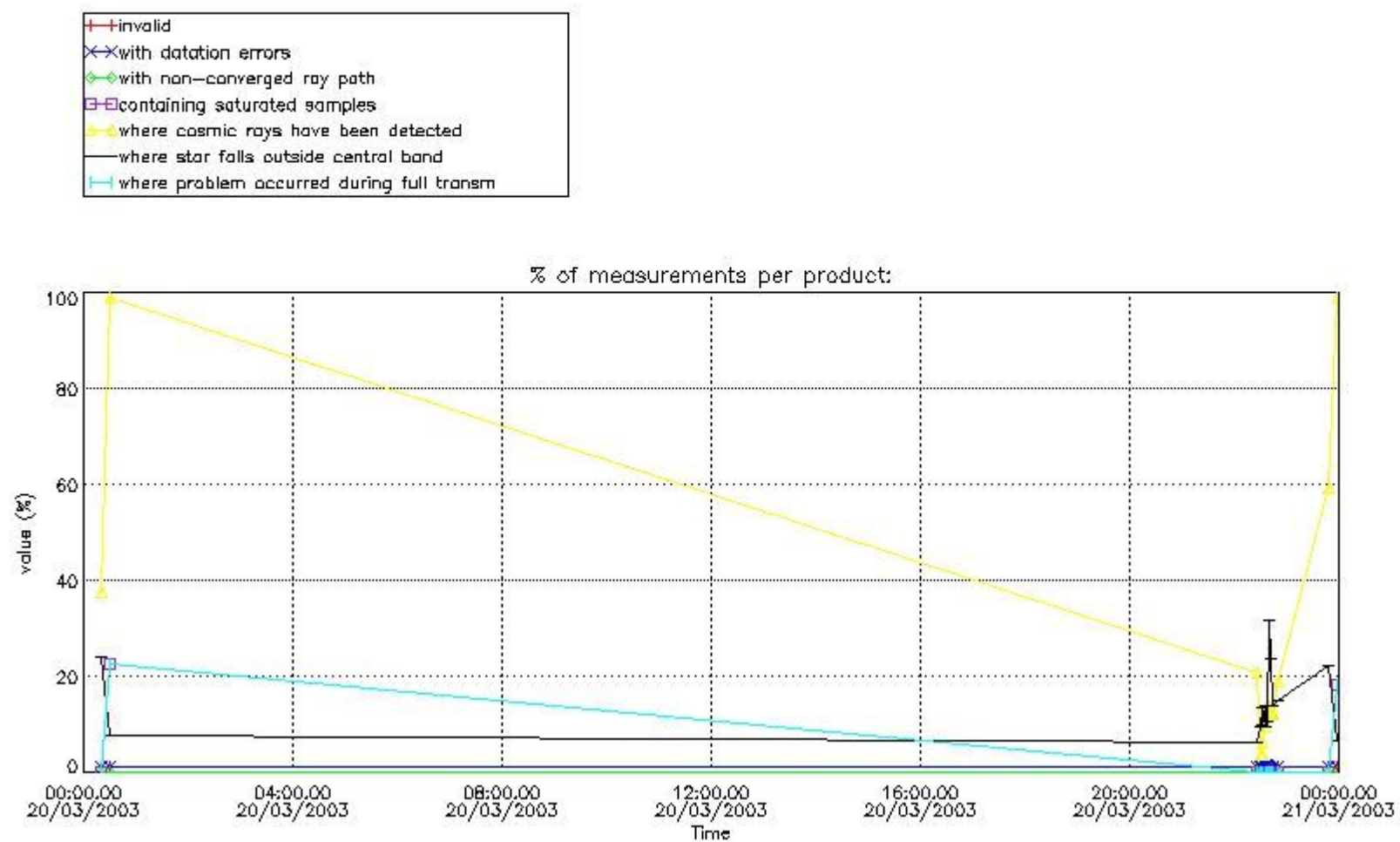


4. Level 1 quality information per product

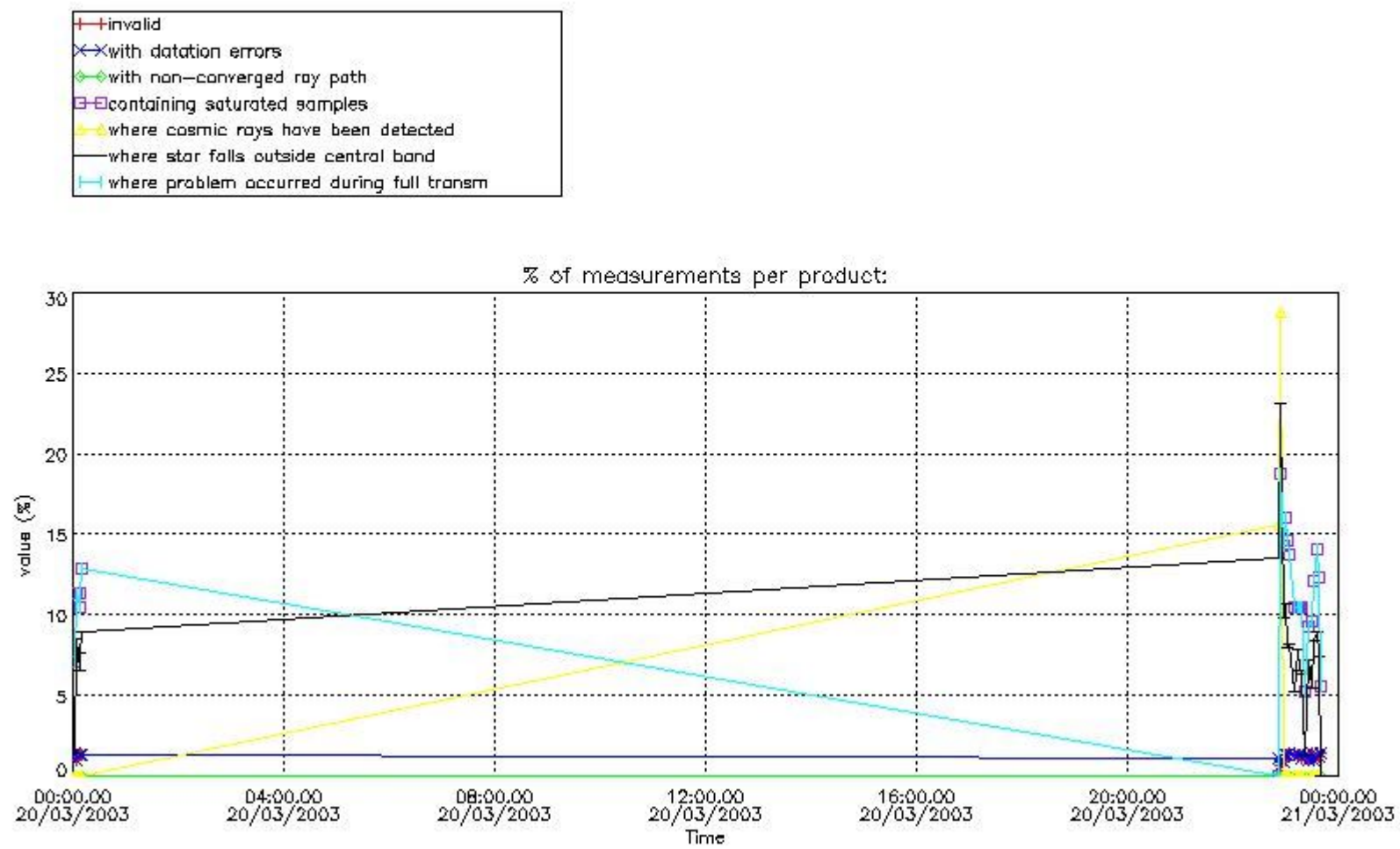
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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



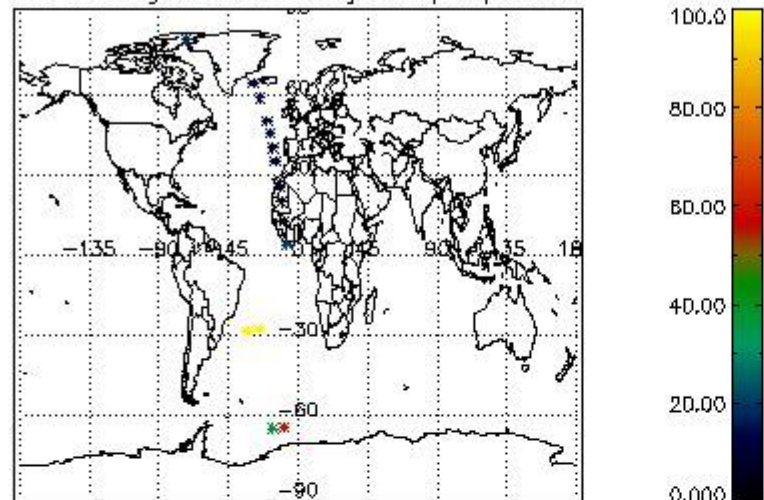
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



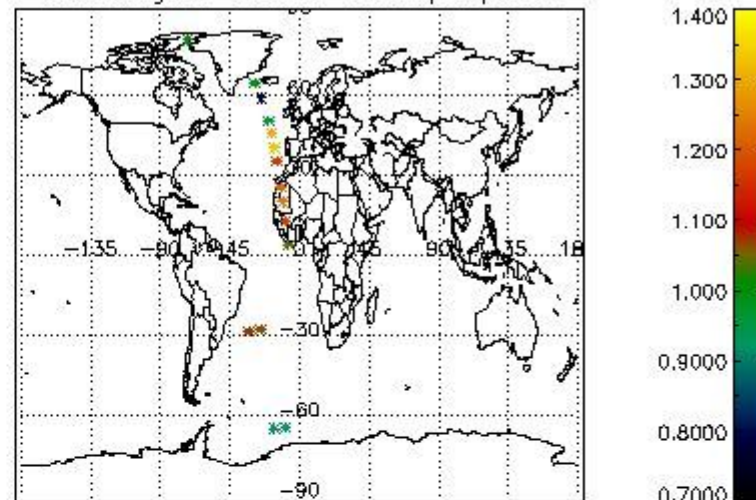
4.2 Plot quality information per product coming from level 1b processing (world map)

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

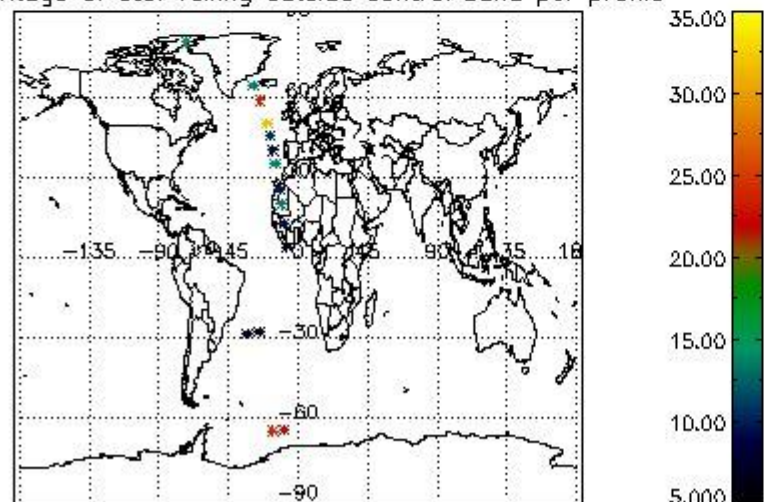
Percentage of cosmic ray hits per profile



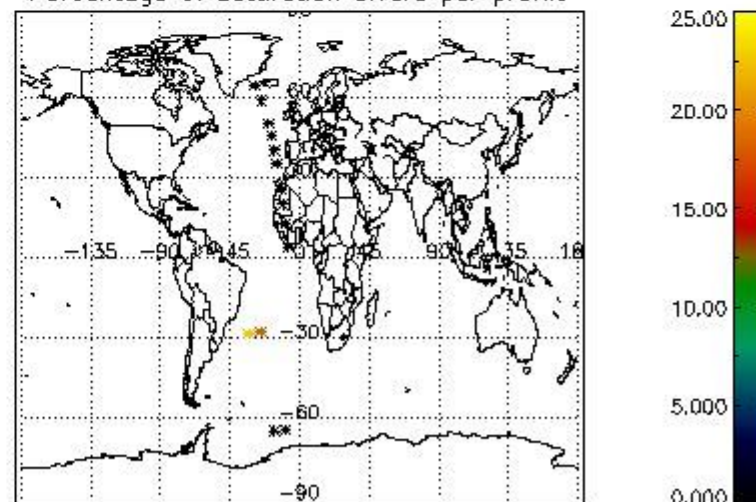
Percentage of datation errors per profile



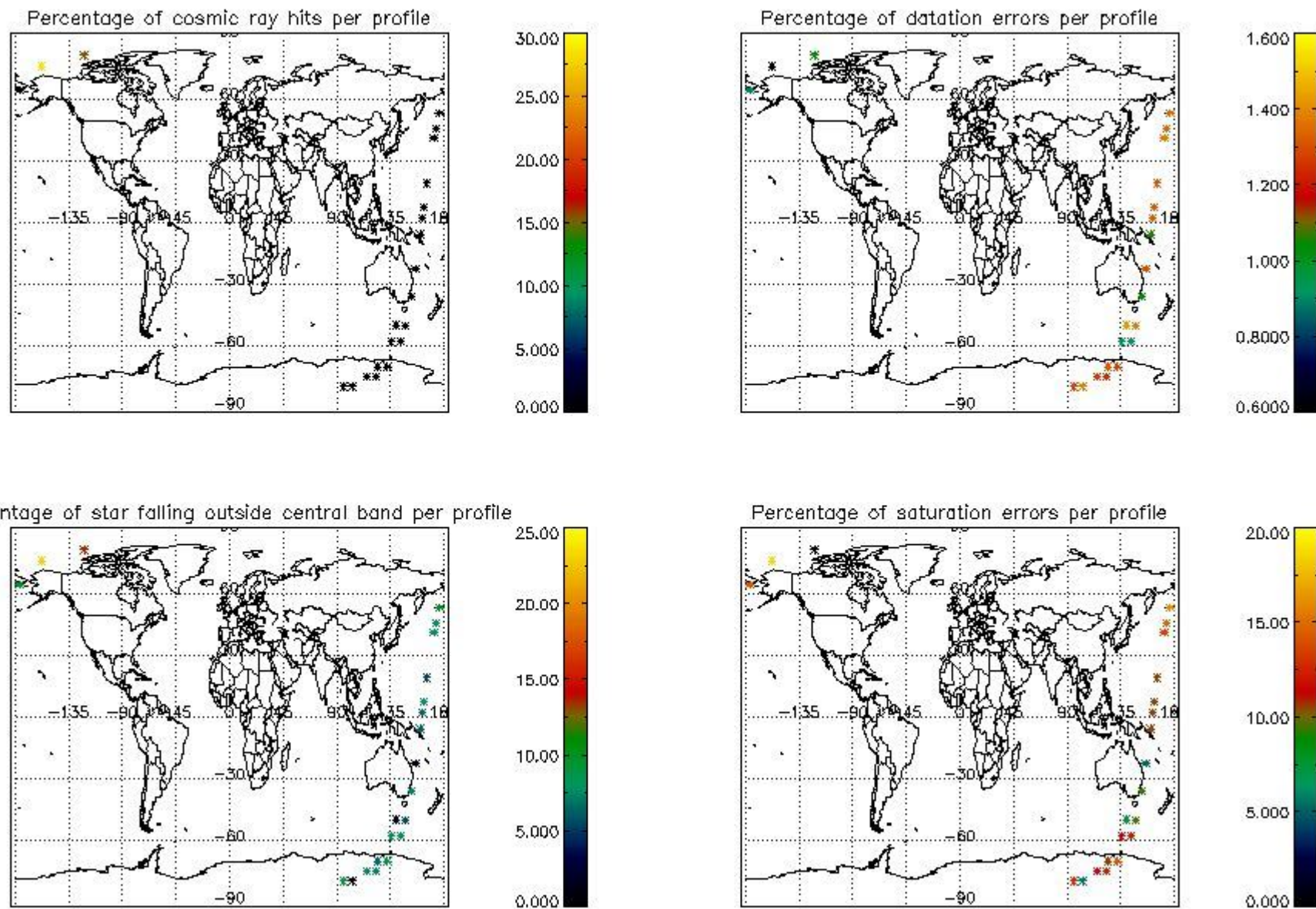
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

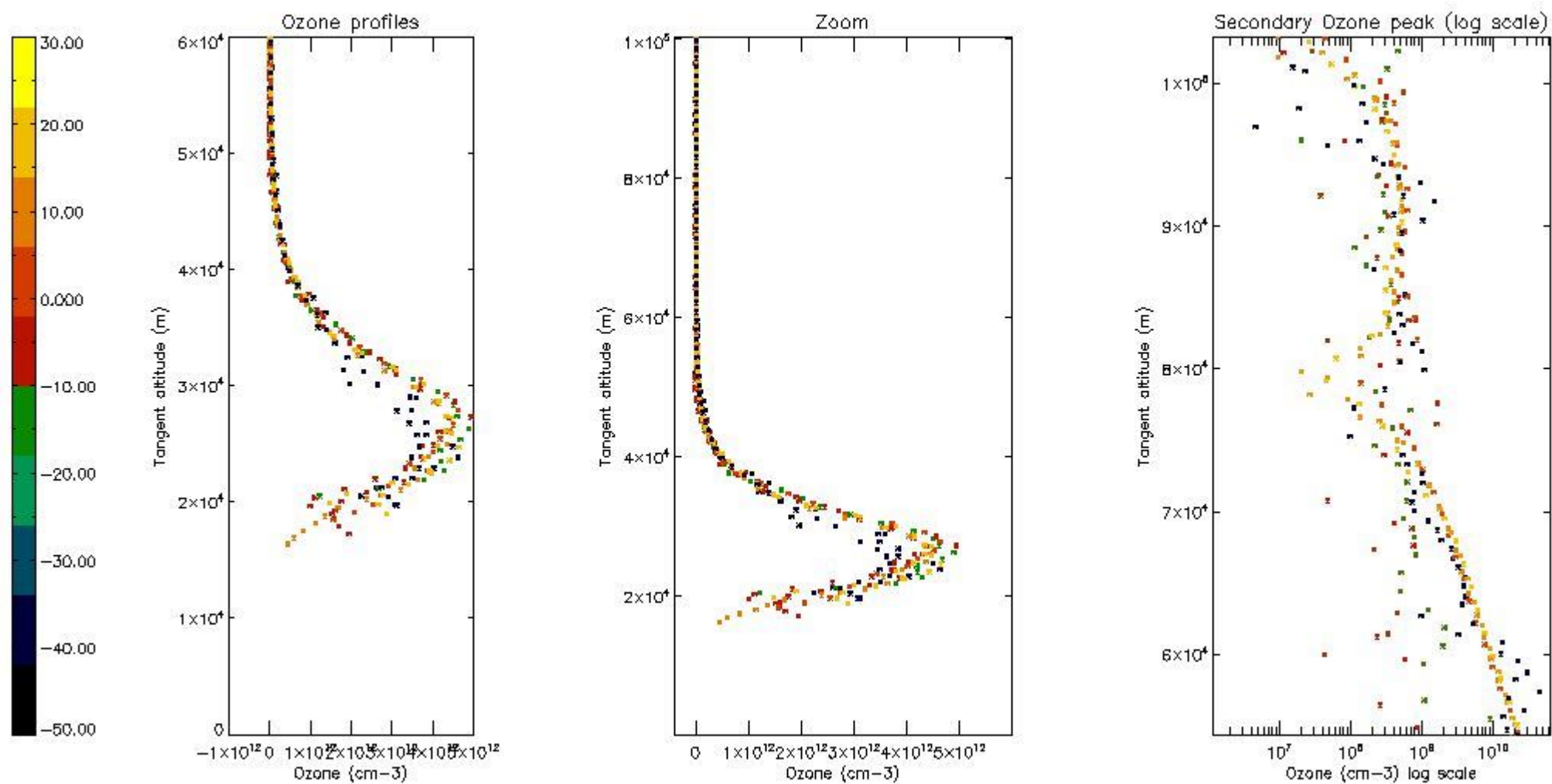
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	23
STD < 20	12

STD < 10	8
STD < 5	5

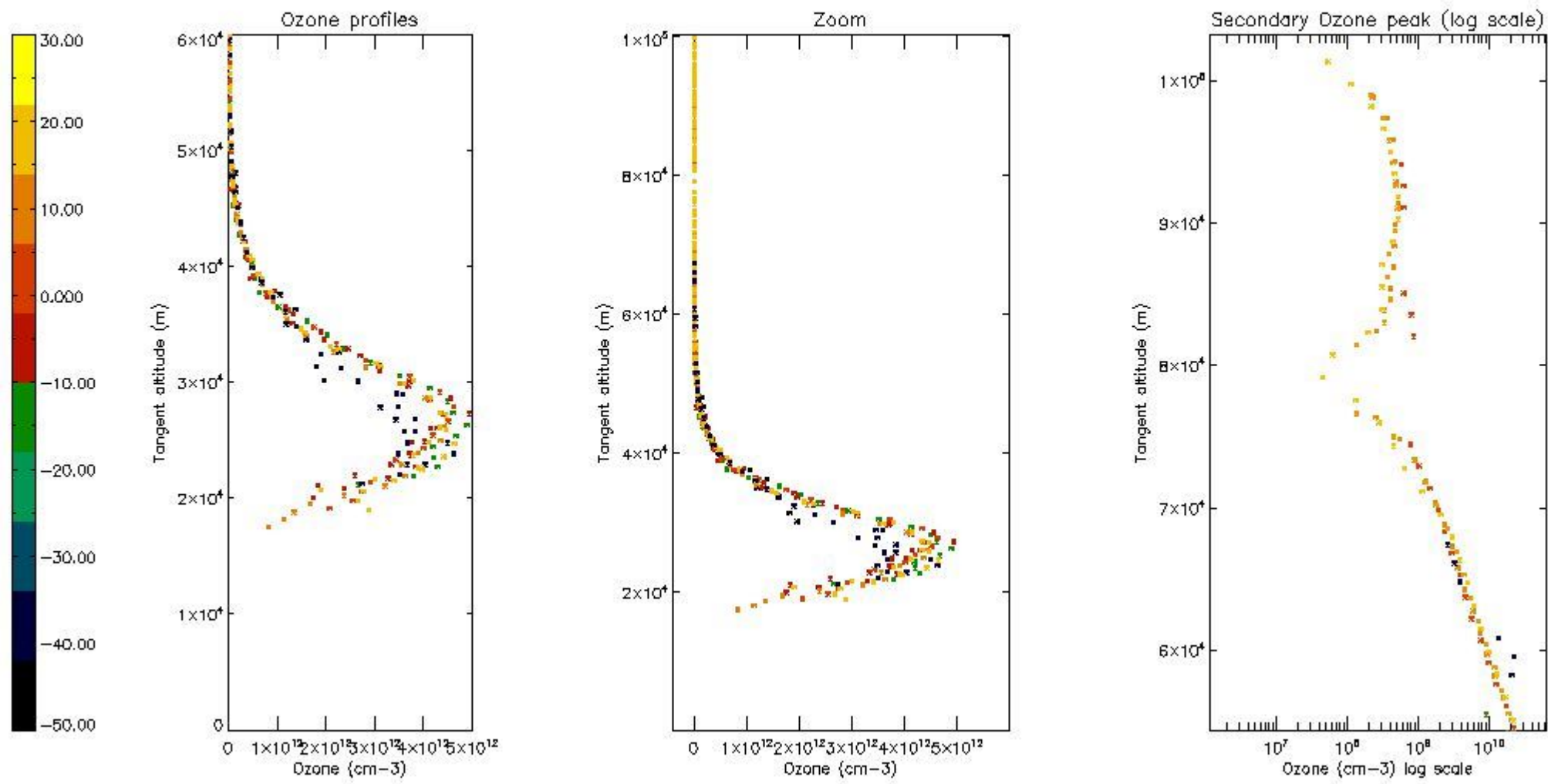
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



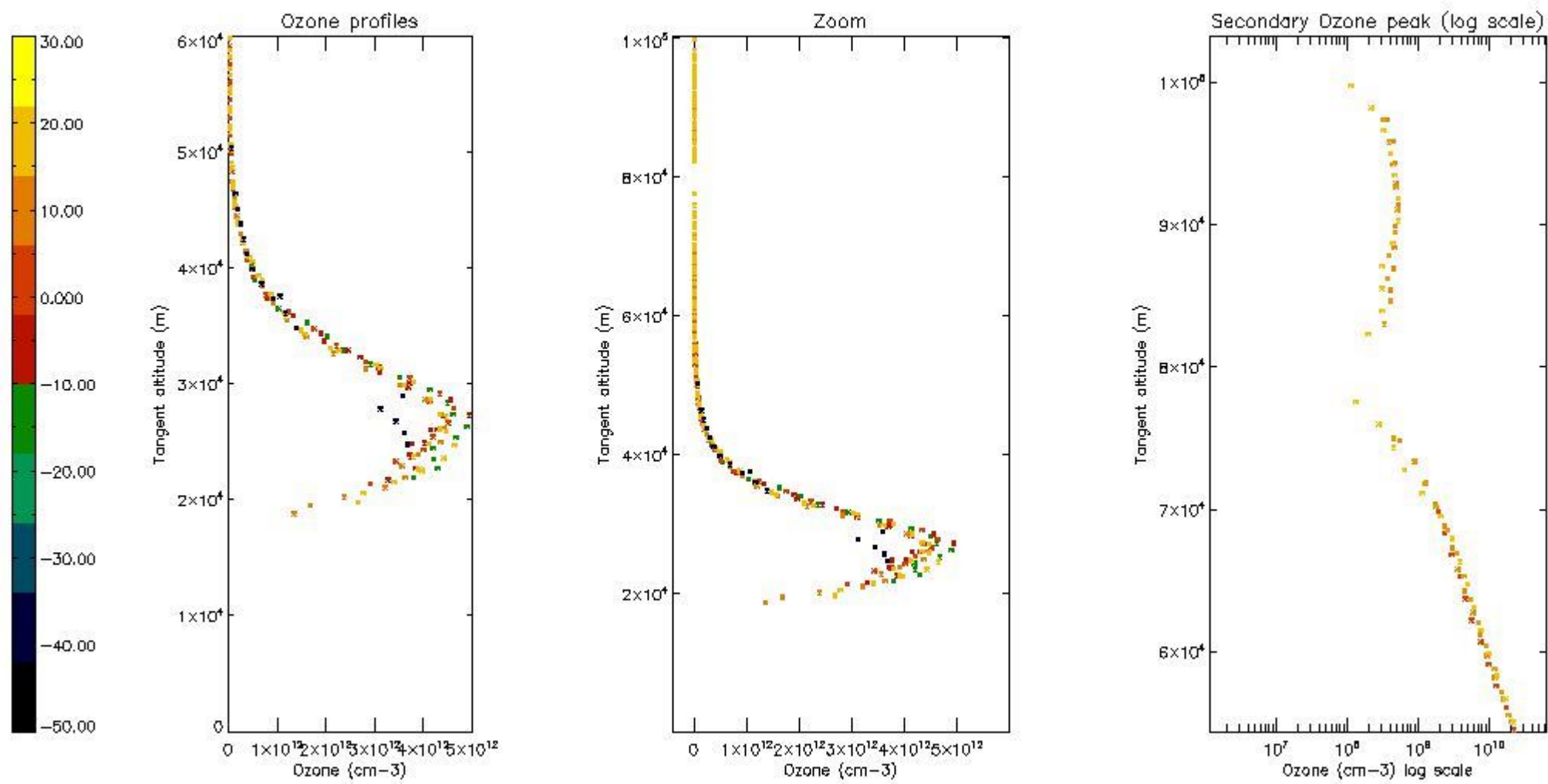
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



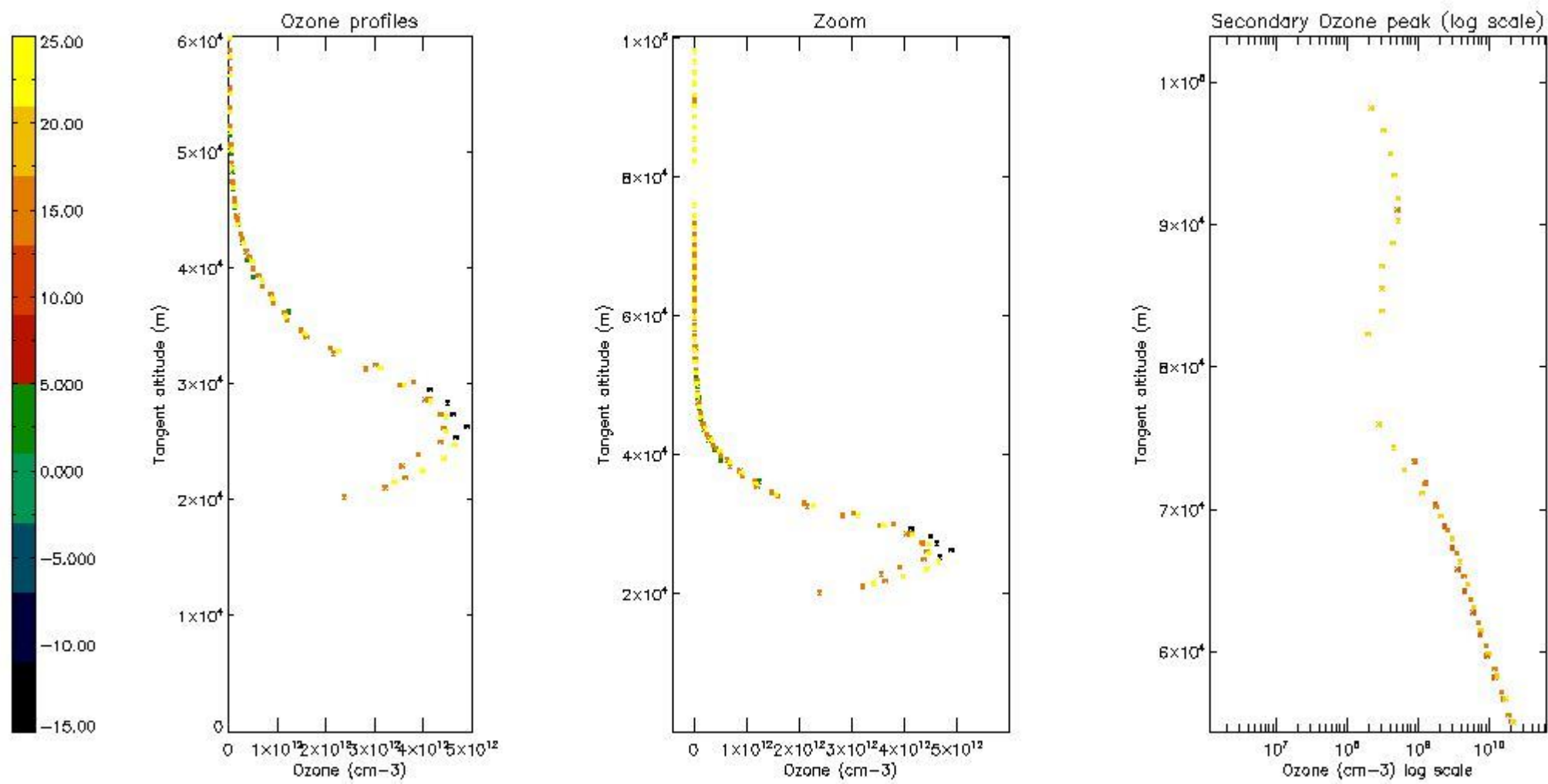
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



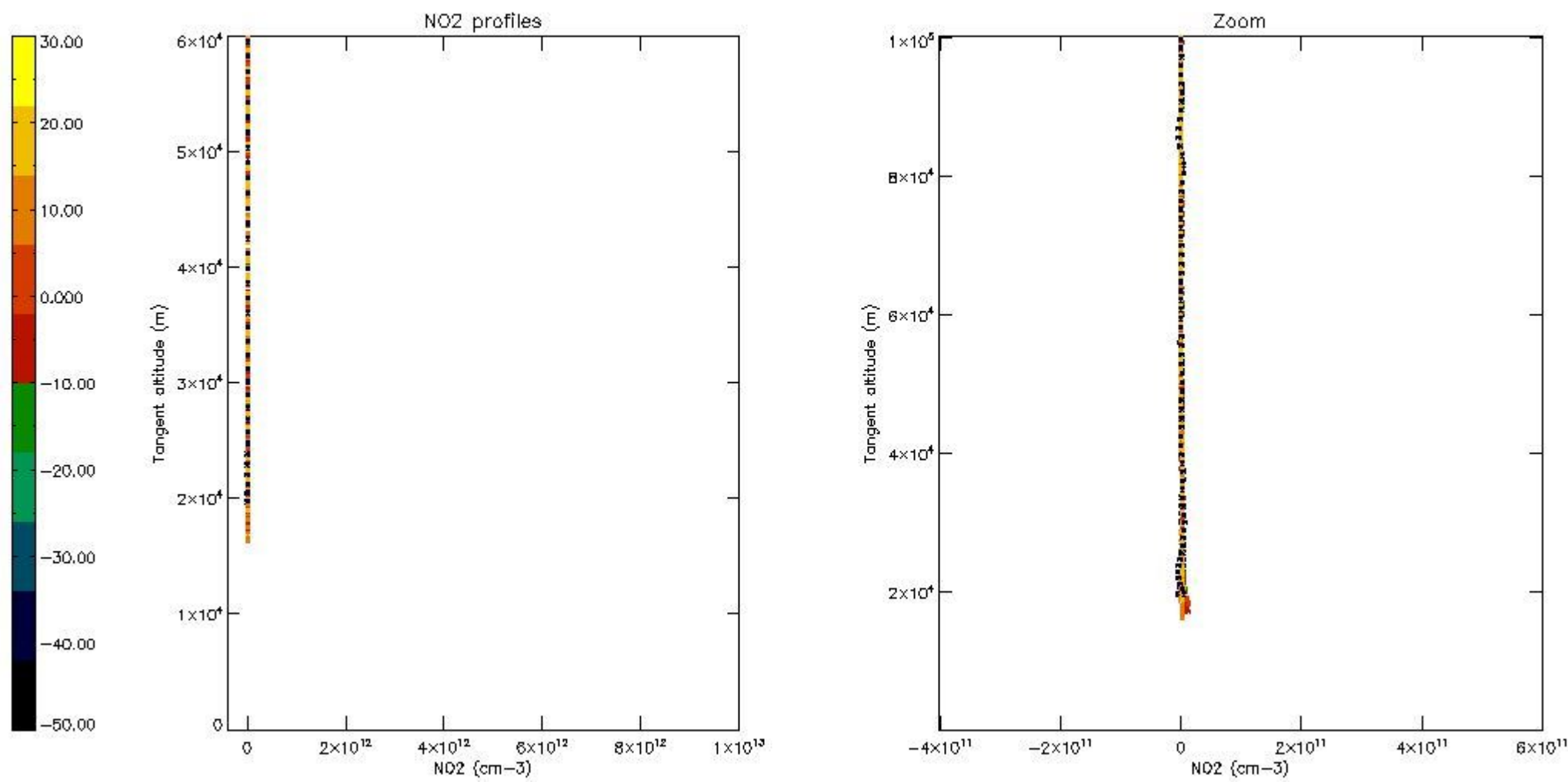
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



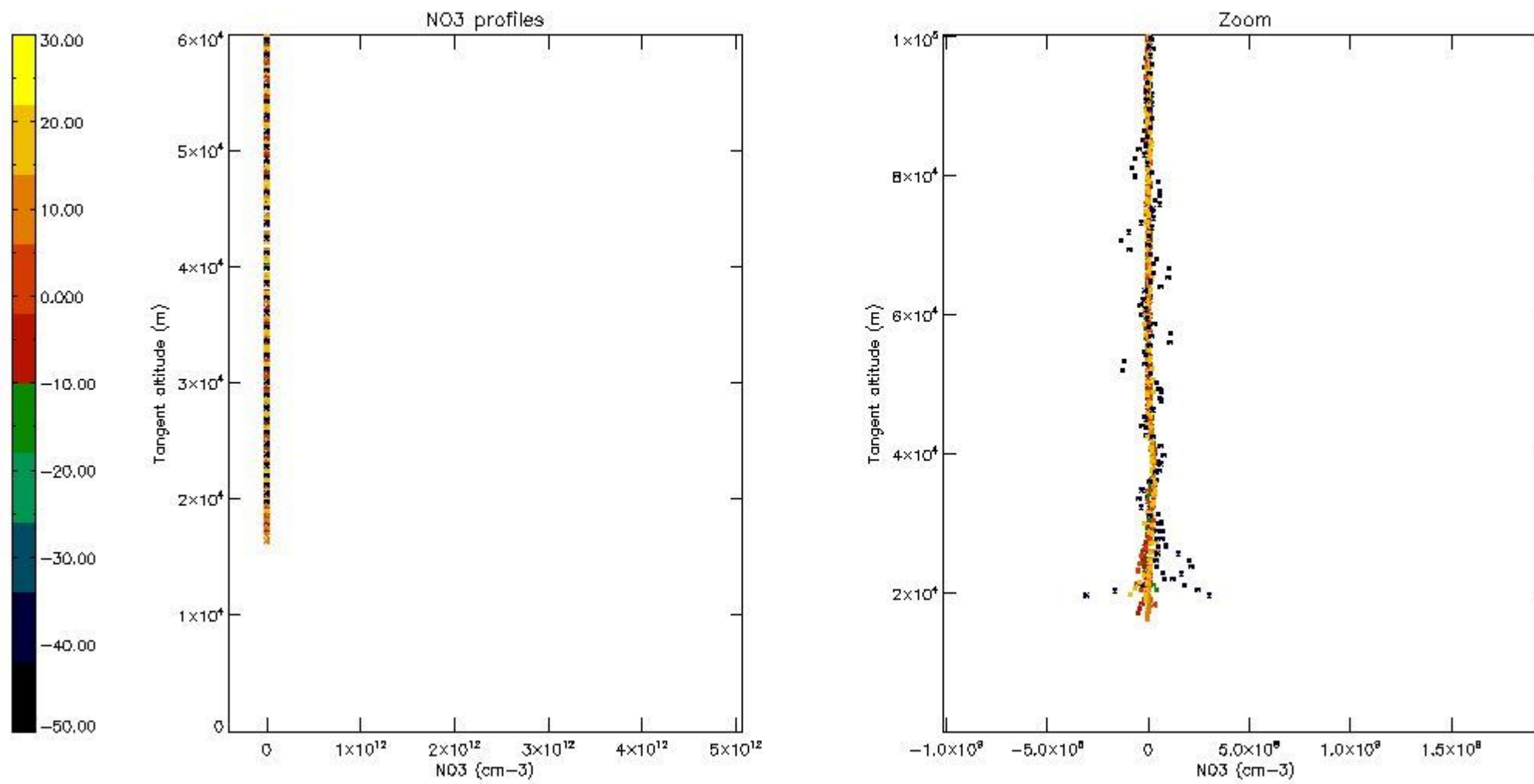
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	20-MAR-2003 00:01:21
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	20-MAR-2003 00:01:21
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	20-MAR-2003 00:01:21

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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](#)

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

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

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

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

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

Item	Value
Time of report generation	19APR2013 11:56:08
Data source version	GOMOS/6.01
Start time of products	20-03-2003 (20MAR2003 00:00:00)
Stop time of products	21-03-2003 (21MAR2003 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	38
Nb of prods with errors	1

2. Summary of processed GOM_NL__2P products.

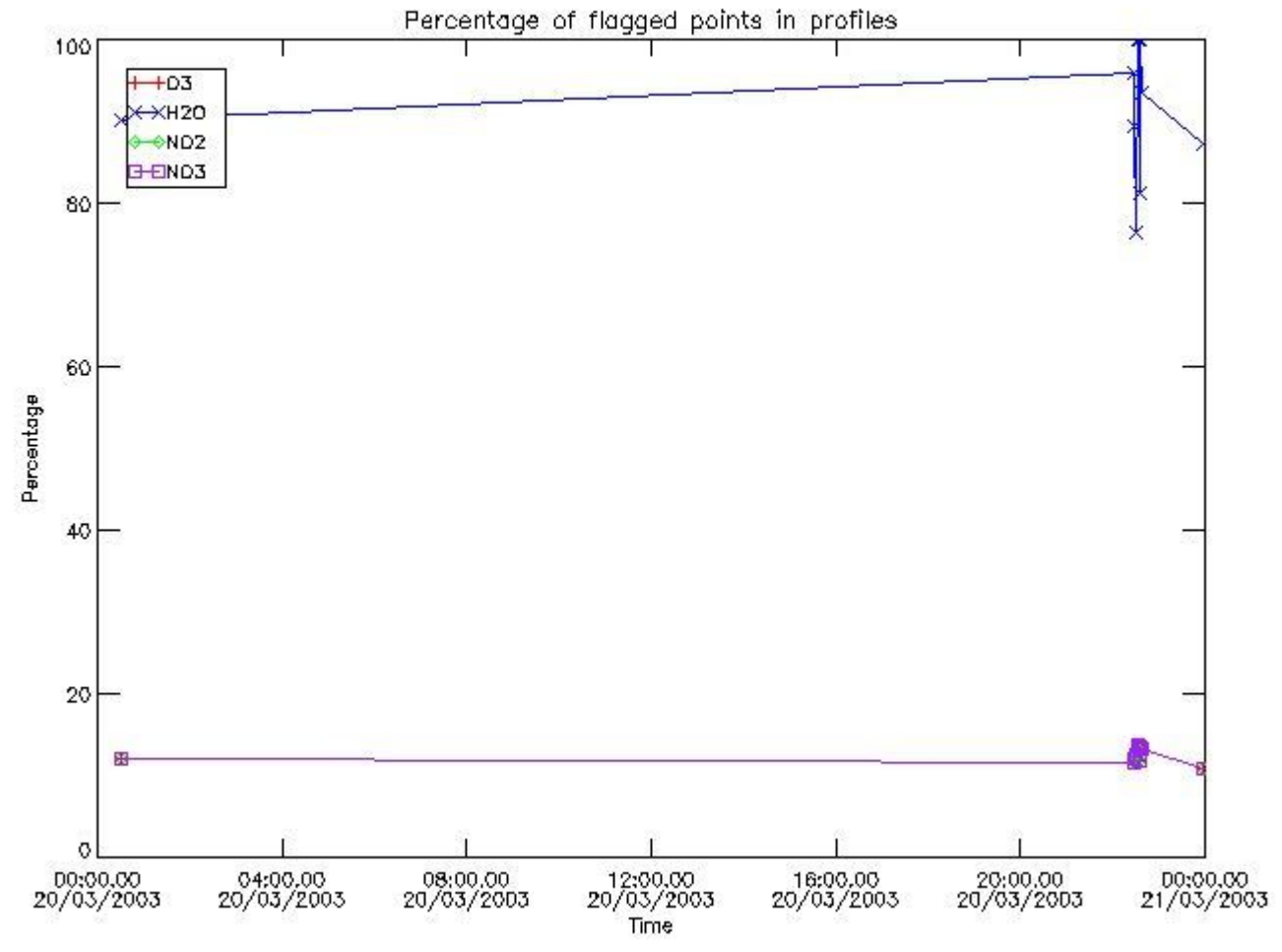
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20030320_000121_000000352014_00431_05495_6341.N1	20-MAR-2003 00:01:21	Bright	35.000	74	11Bet Cas	2.2680	6600.0	70	5495	No
2	GOM_NL__2PRFIN20030320_000339_000000532014_00431_05495_6342.N1	20-MAR-2003 00:03:39	Bright	53.000	69	33Gam Dra	2.2310	3800.0	106	5495	No
3	GOM_NL__2PRFIN20030320_000715_000000382014_00431_05495_6343.N1	20-MAR-2003 00:07:15	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	5495	No
4	GOM_NL__2PRFIN20030320_000850_000000402014_00431_05495_6344.N1	20-MAR-2003 00:08:50	Bright	39.500	66	37Gam Cyg	2.2080	5900.0	79	5495	No
5	GOM_NL__2PRFIN20030320_001036_000000392014_00431_05495_6345.N1	20-MAR-2003 00:10:36	Bright	39.000	92	53Eps Cyg	2.5000	4500.0	78	5495	No
6	GOM_NL__2PRFIN20030320_001912_000000552014_00431_05495_6346.N1	20-MAR-2003 00:19:12	Twilight	54.500	11	53Alp Aql	0.76500	8000.0	109	5495	No
7	GOM_NL__2PRFIN20030320_002942_000000472014_00431_05495_6347.N1	20-MAR-2003 00:29:42	Dark	46.500	155	41Pi Sgr	2.9000	6600.0	93	5495	No
8	GOM_NL__2PRFIN20030320_003200_000000682014_00431_05495_6348.N1	20-MAR-2003 00:32:00	Dark	68.000	1014	Mars	0.0000	0.0000	136	5495	Yes
9	GOM_NL__2PRFIN20030320_222629_000000482014_00445_05509_6313.N1	20-MAR-2003 22:26:29	Dark	48.000	178	lot1Sco	3.0220	6550.0	96	5509	No
10	GOM_NL__2PRFIN20030320_222901_000000432014_00445_05509_6314.N1	20-MAR-2003 22:29:01	Dark	42.500	141	Bet Ara	2.8400	4600.0	85	5509	No
11	GOM_NL__2PRFIN20030320_223101_000000412014_00445_05509_6315.N1	20-MAR-2003 22:31:01	Dark	40.500	43	Alp TrA	1.9100	4250.0	81	5509	No
12	GOM_NL__2PRFIN20030320_223234_000000412014_00445_05509_6316.N1	20-MAR-2003 22:32:34	Dark	41.000	134	Bet TrA	2.8100	6600.0	82	5509	No
13	GOM_NL__2PRFIN20030320_223518_000000432014_00445_05509_6317.N1	20-MAR-2003 22:35:18	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	5509	No
14	GOM_NL__2PRFIN20030320_223641_000000382014_00445_05509_6318.N1	20-MAR-2003 22:36:41	Dark	37.500	112	Alp Mus	2.6880	26000.	75	5509	No
15	GOM_NL__2PRFIN20030320_223813_000000392014_00445_05509_6319.N1	20-MAR-2003 22:38:13	Dark	38.500	12	Alp1Cru	0.77500	30000.	77	5509	No
16	GOM_NL__2PRFIN20030320_223933_000000522014_00445_05509_6320.N1	20-MAR-2003 22:39:33	Straylight	52.000	26	Gam Cru	1.6240	2900.0	104	5509	No
17	GOM_NL__2PRFIN20030320_224203_000000642014_00445_05509_6321.N1	20-MAR-2003 22:42:03	Straylight	63.500	54	5The Cen	2.0550	4500.0	127	5509	No
18	GOM_NL__2PRFIN20030320_224340_000000512014_00445_05509_6322.N1	20-MAR-2003 22:43:40	Straylight	50.500	123	lot Cen	2.7500	10200.	101	5509	No
19	GOM_NL__2PRFIN20030320_224910_000000502014_00445_05509_6323.N1	20-MAR-2003 22:49:10	Straylight	50.000	106	9Bet Crv	2.6480	5600.0	100	5509	No
20	GOM_NL__2PRFIN20030320_225121_000000482014_00445_05509_6324.N1	20-MAR-2003 22:51:21	Twilight	48.000	100	4Gam Crv	2.5800	13100.	96	5509	No
21	GOM_NL__2PRFIN20030320_225347_000000802014_00445_05509_6325.N1	20-MAR-2003 22:53:47	Bright	80.000	15	67Alp Vir	0.97600	28000.	160	5509	No
22	GOM_NL__2PRFIN20030320_225723_000000562014_00445_05509_6326.N1	20-MAR-2003 22:57:23	Bright	56.000	121	29Gam Vir	2.7400	7200.0	112	5509	No
23	GOM_NL__2PRFIN20030320_230041_000000382014_00445_05509_6327.N1	20-MAR-2003 23:00:41	Bright	37.500	22	32Alp Leo	1.3600	15200.	75	5509	No
24	GOM_NL__2PRFIN20030320_230251_000000382014_00445_05509_6328.N1	20-MAR-2003 23:02:51	Bright	37.500	51	41Gam1Leo	2.0100	4500.0	75	5509	No
25	GOM_NL__2PRFIN20030320_230407_000000372014_00445_05509_6329.N1	20-MAR-2003 23:04:07	Bright	36.500	166	17Eps Leo	2.9800	6000.0	73	5509	No
26	GOM_NL__2PRFIN20030320_231018_000000382014_00445_05509_6330.N1	20-MAR-2003 23:10:18	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	5509	No
27	GOM_NL__2PRFIN20030320_231333_000000382014_00445_05509_6331.N1	20-MAR-2003 23:13:33	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	5509	No
28	GOM_NL__2PRFIN20030320_231504_000000382014_00445_05509_6332.N1	20-MAR-2003 23:15:04	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	5509	No
29	GOM_NL__2PRFIN20030320_231714_000000482014_00445_05509_6333.N1	20-MAR-2003 23:17:14	Bright	47.500	55	79Zet UMa	2.0600	10200.	95	5509	No
30	GOM_NL__2PRFIN20030320_232159_000000392014_00445_05509_6334.N1	20-MAR-2003 23:21:59	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	5509	No
31	GOM_NL__2PRFIN20030320_232547_000000492014_00445_05509_6335.N1	20-MAR-2003 23:25:47	Bright	48.500	119	14Eta Dra	2.7270	4700.0	97	5509	No
32	GOM_NL__2PRFIN20030320_232948_000000372014_00445_05509_6336.N1	20-MAR-2003 23:29:48	Bright	36.500	74	11Bet Cas	2.2680	6600.0	73	5509	No
33	GOM_NL__2PRFIN20030320_233156_000000542014_00445_05509_6337.N1	20-MAR-2003 23:31:56	Bright	53.500	69	33Gam Dra	2.2310	3800.0	107	5509	No
34	GOM_NL__2PRFIN20030320_233538_000000392014_00445_05509_6338.N1	20-MAR-2003 23:35:38	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	5509	No
35	GOM_NL__2PRFIN20030320_233713_000000412014_00445_05509_6339.N1	20-MAR-2003 23:37:13	Bright	40.500	66	37Gam Cyg	2.2080	5900.0	81	5509	No
36	GOM_NL__2PRFIN20030320_233901_000000362014_00445_05509_6340.N1	20-MAR-2003 23:39:01	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	5509	No
37	GOM_NL__2PRFIN20030320_234742_000000542014_00445_05509_6341.N1	20-MAR-2003 23:47:42	Twilight	54.000	11	53Alp Aql	0.76500	8000.0	108	5509	No
38	GOM_NL__2PRFIN20030320_235818_000000472014_00445_05509_6342.N1	20-MAR-2003 23:58:18	Dark	47.000	155	41Pi Sgr	2.9000	6600.0	94	5509	No

3. Quality information per product

In this section it is plotted some information contained in the Quality Summary data set of

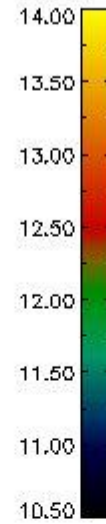
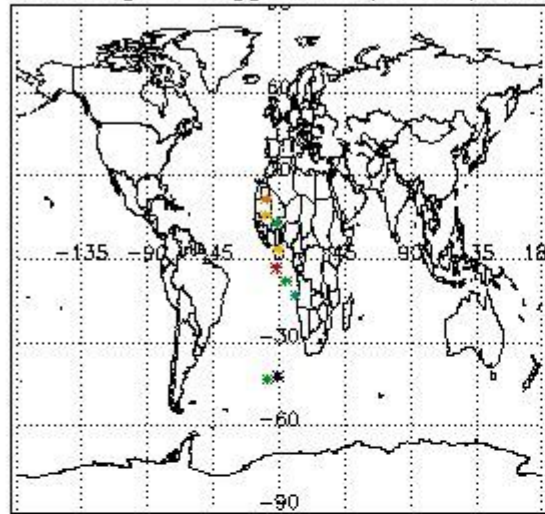
the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

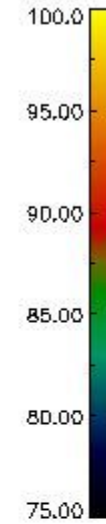
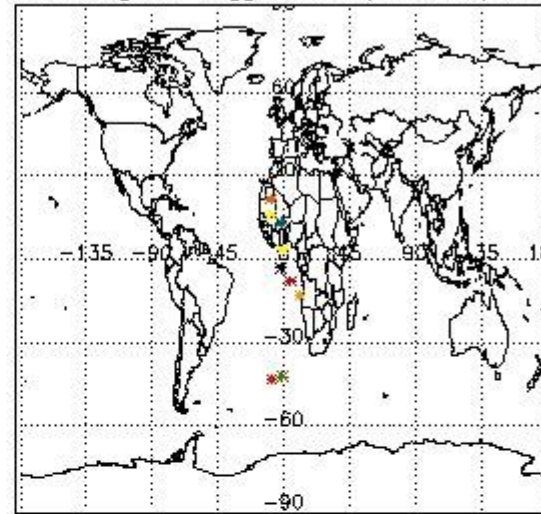


3.2 Plot quality information per product (world map)

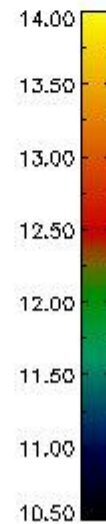
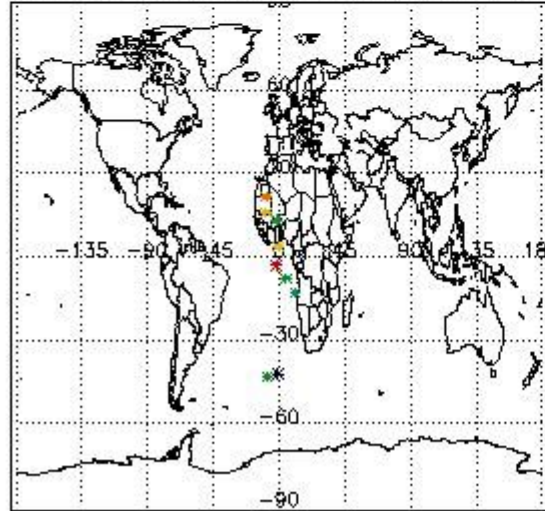
Percentage of flagged data per O3 profile



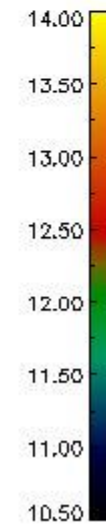
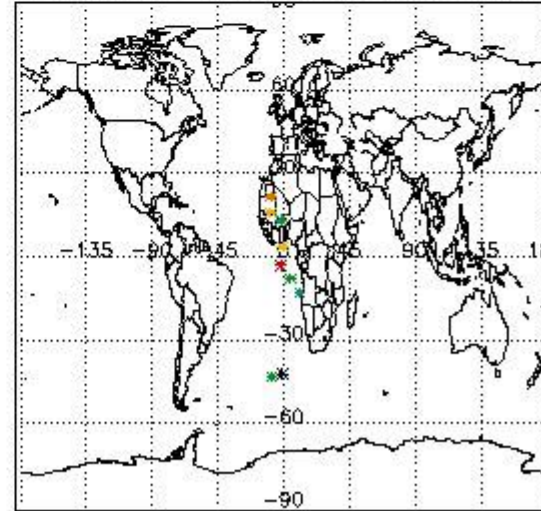
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

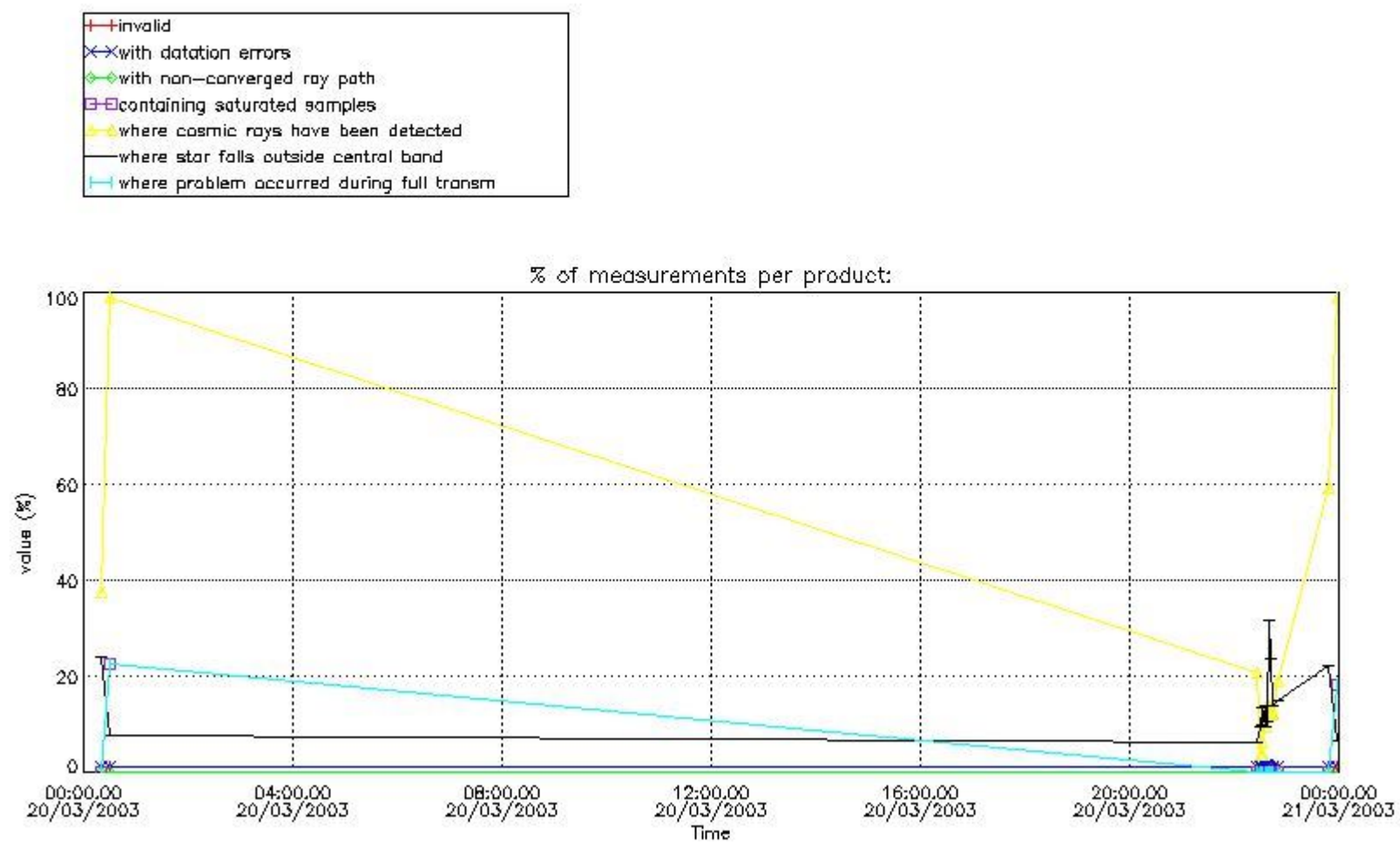


4. Level 1 quality information per product

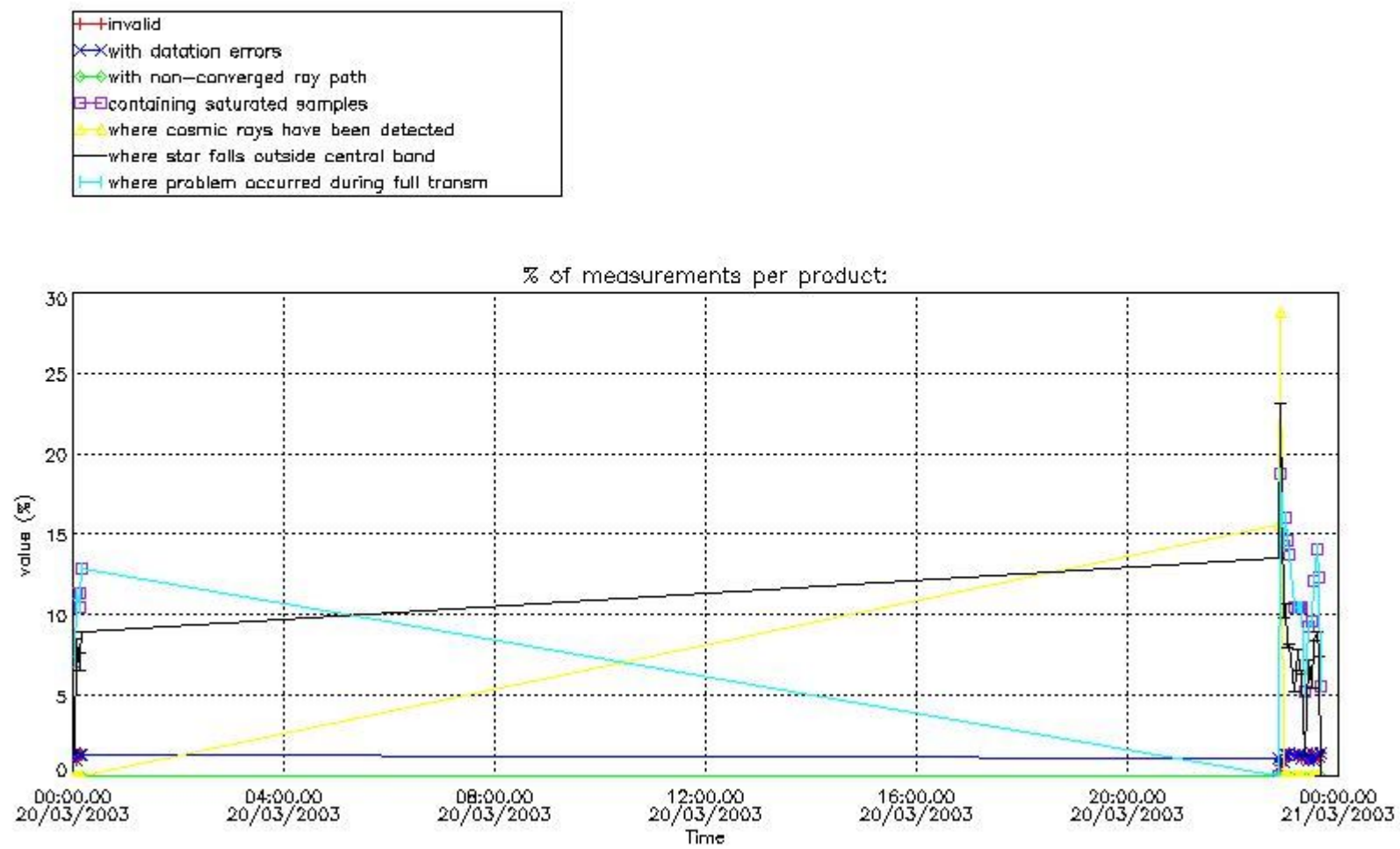
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



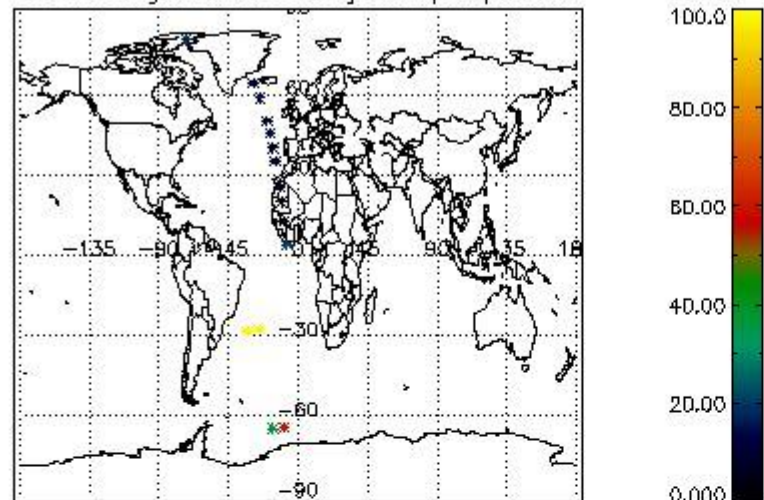
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



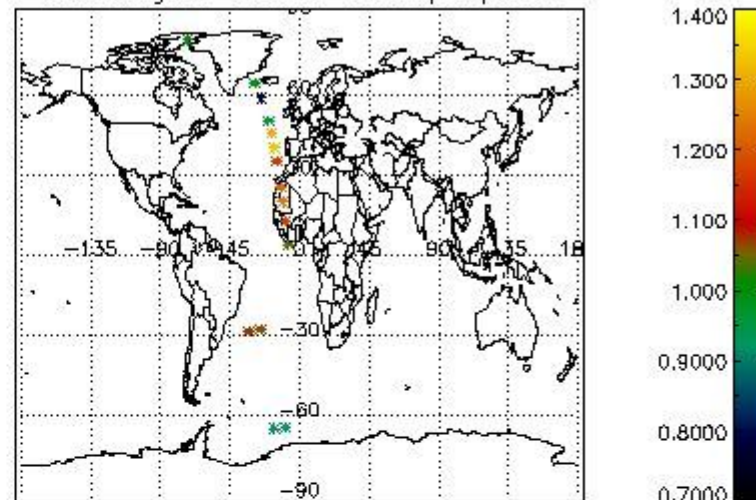
4.2 Plot quality information per product coming from level 1b processing (world map)

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

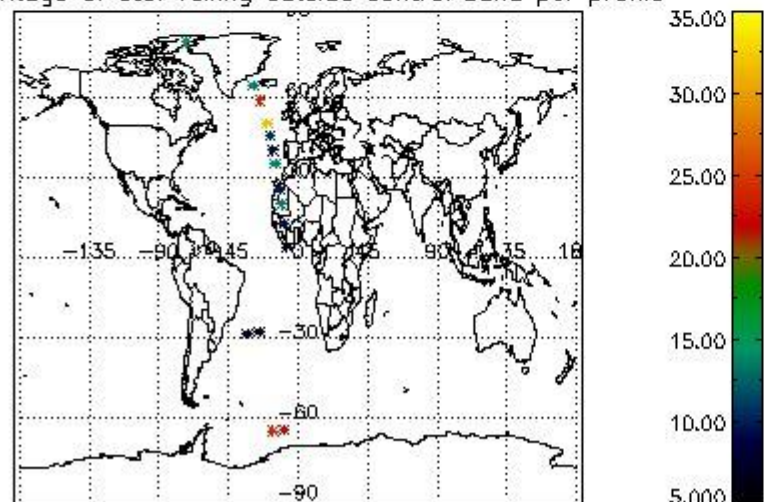
Percentage of cosmic ray hits per profile



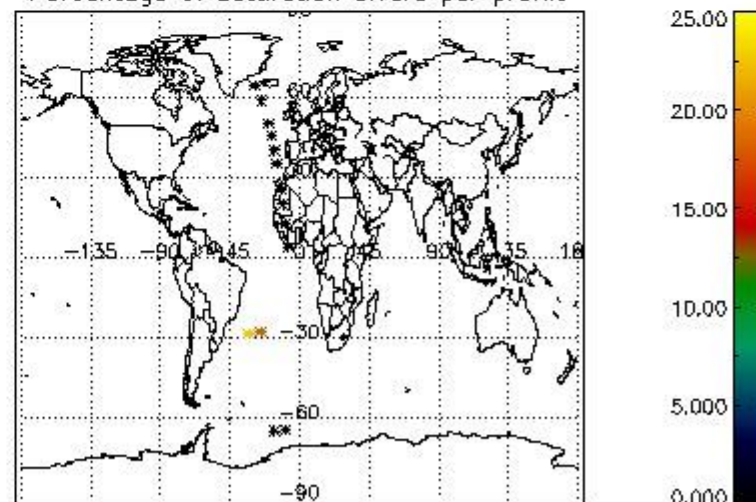
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

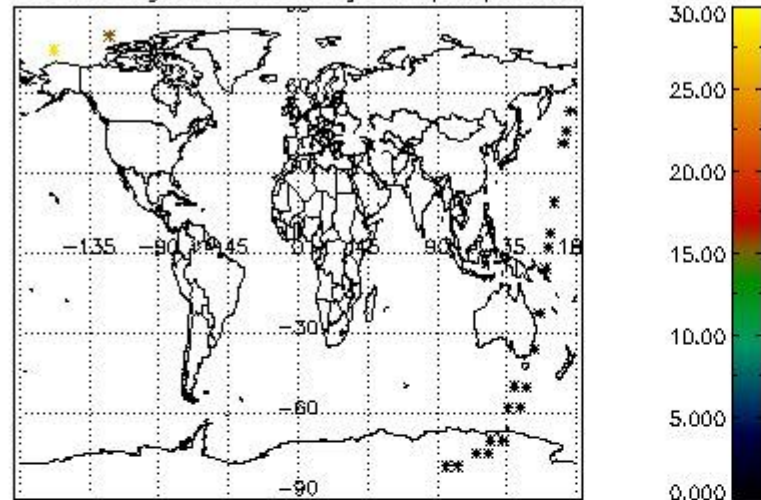


Percentage of saturation errors per profile

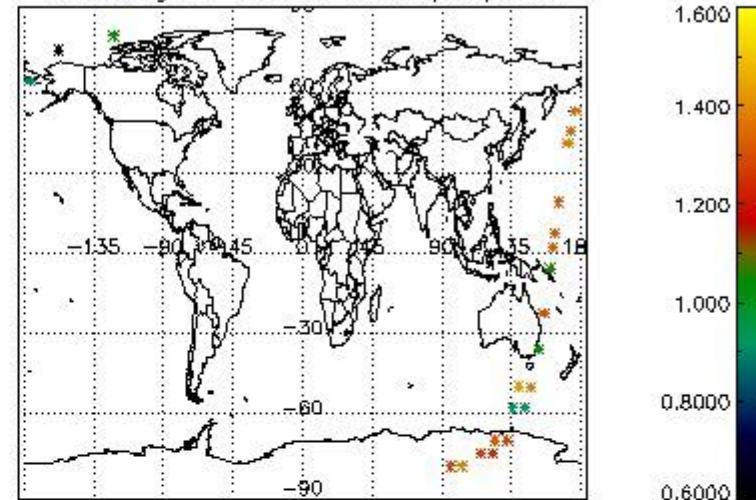


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

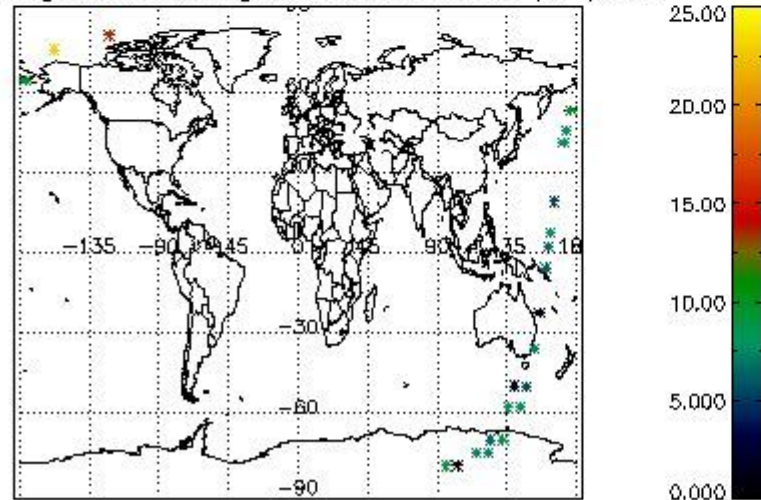
Percentage of cosmic ray hits per profile



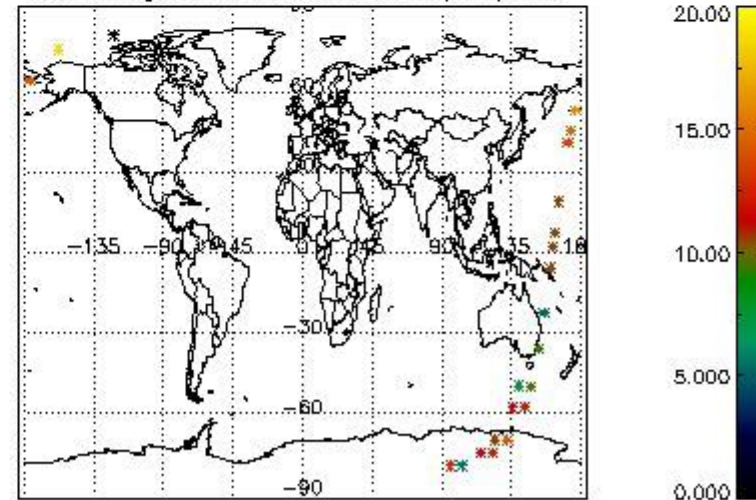
Percentage of datation errors per profile



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

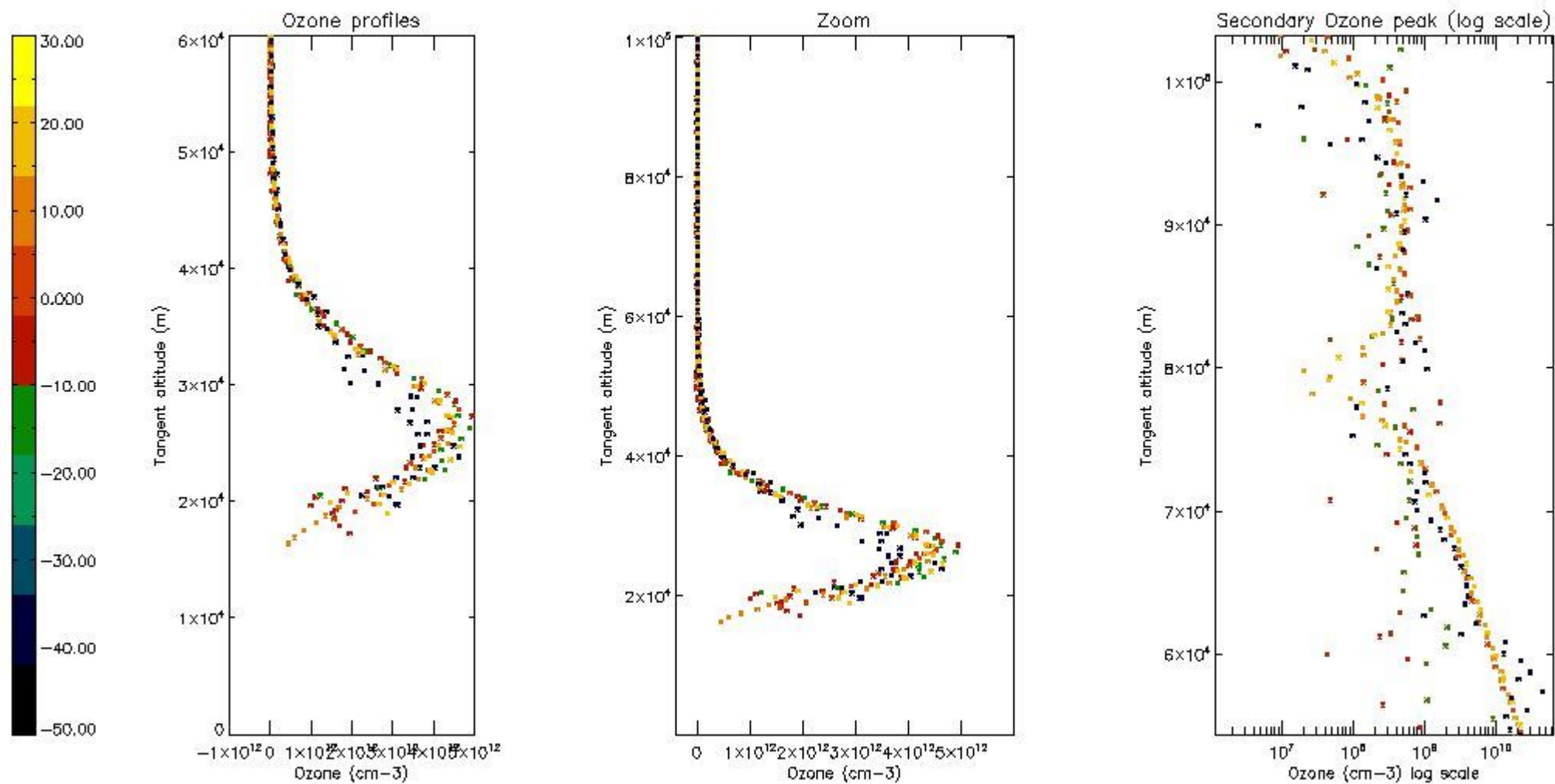
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	23
STD < 20	12

STD < 10	8
STD < 5	5

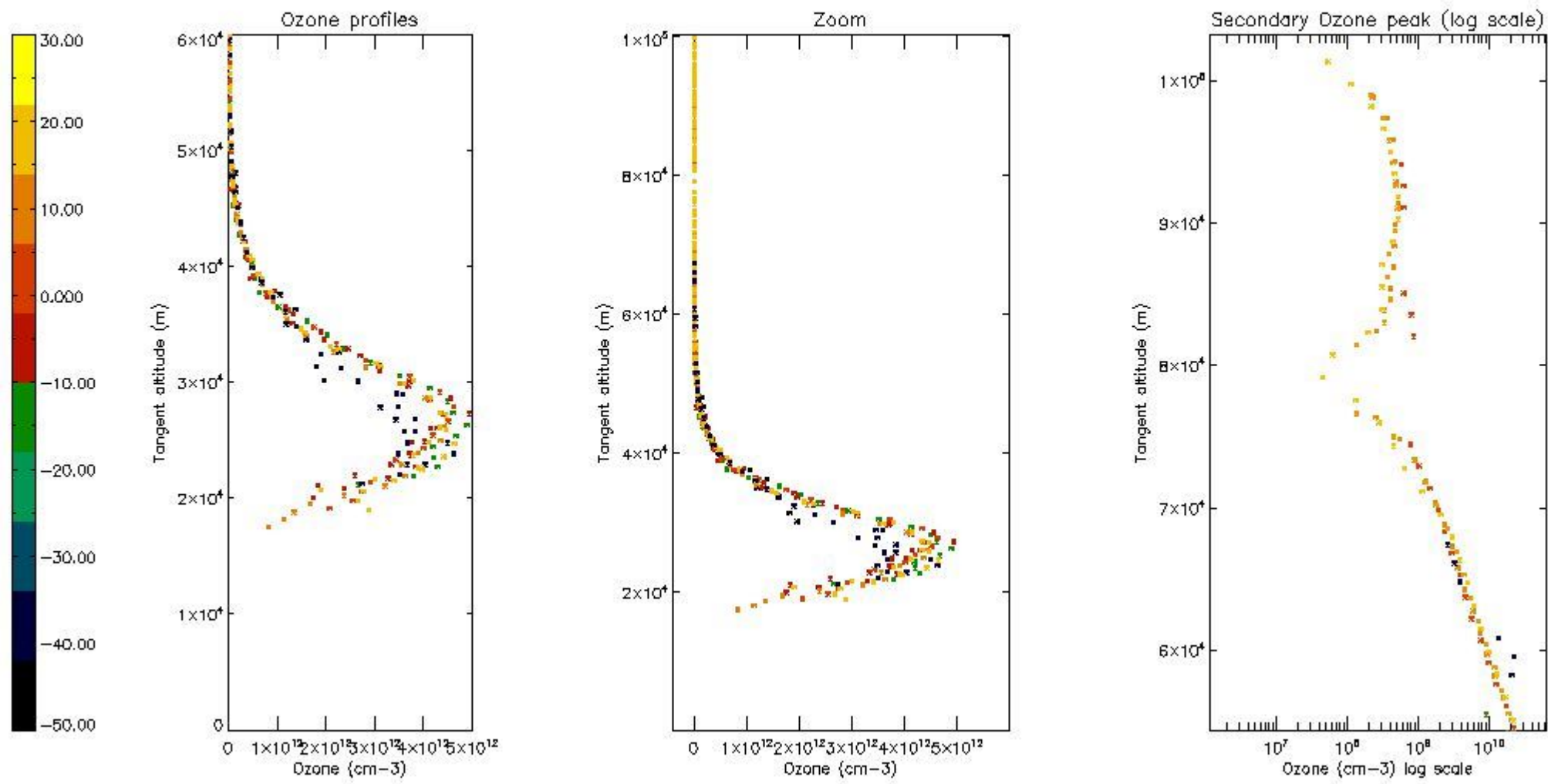
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



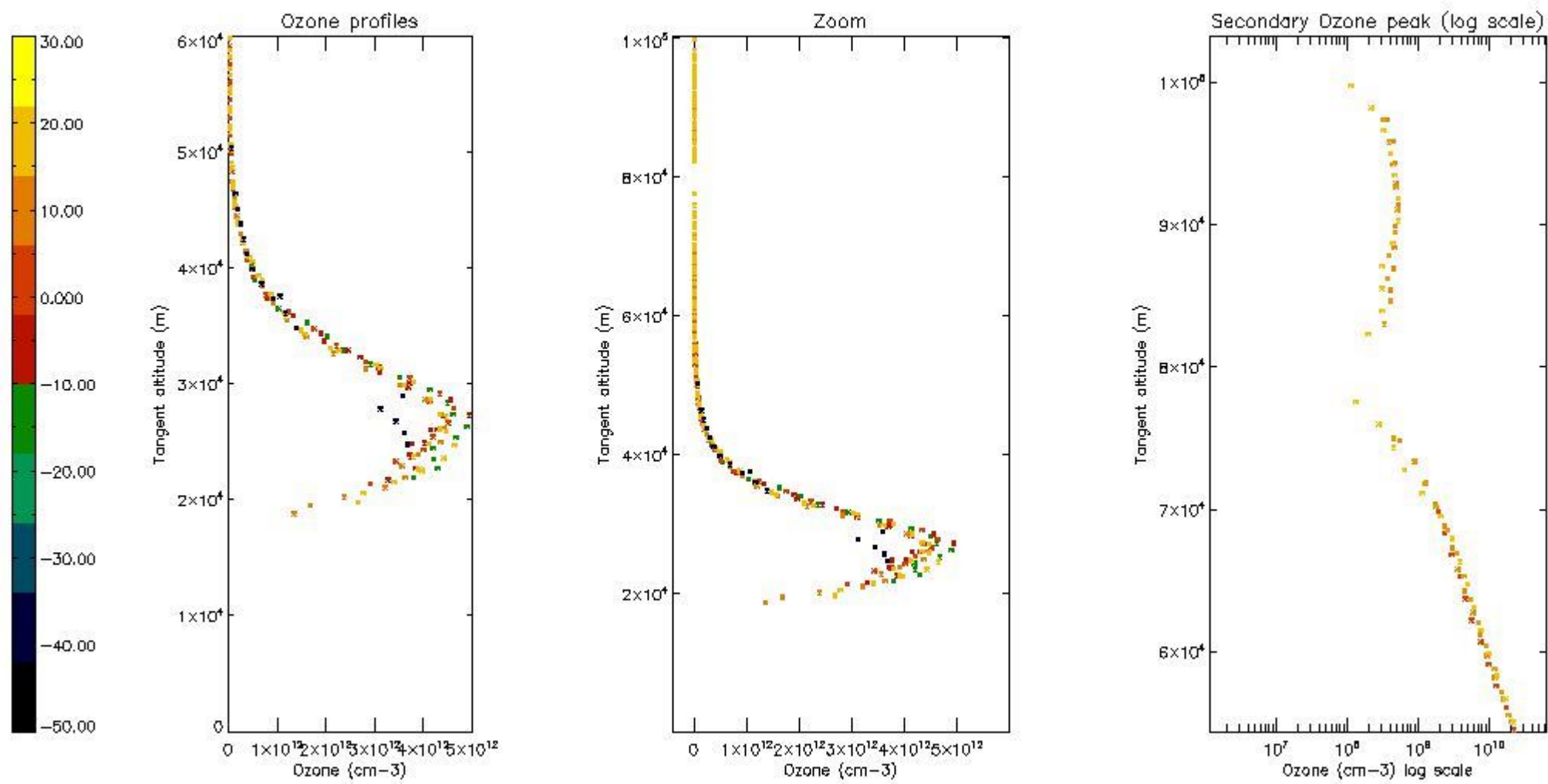
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



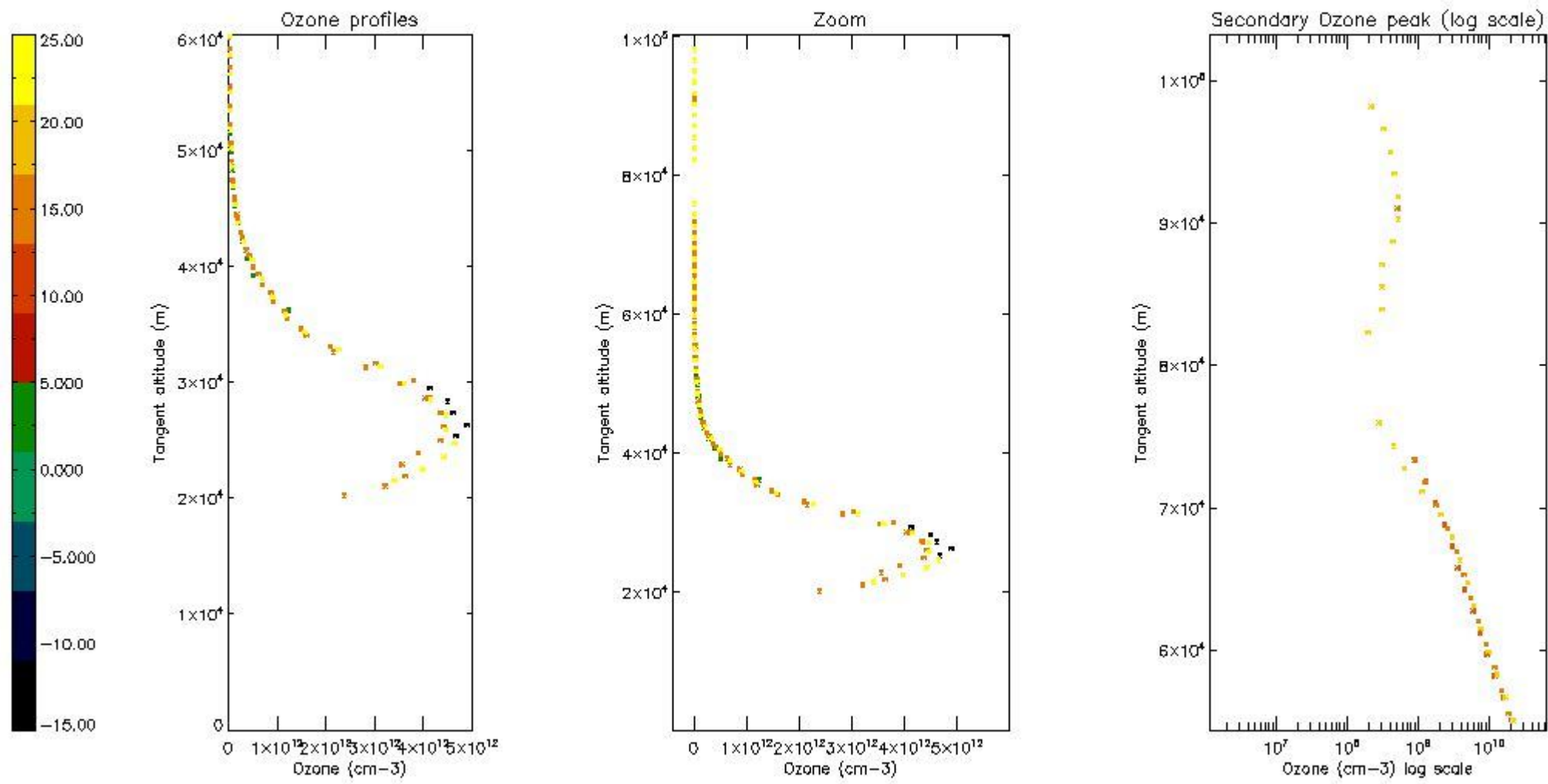
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



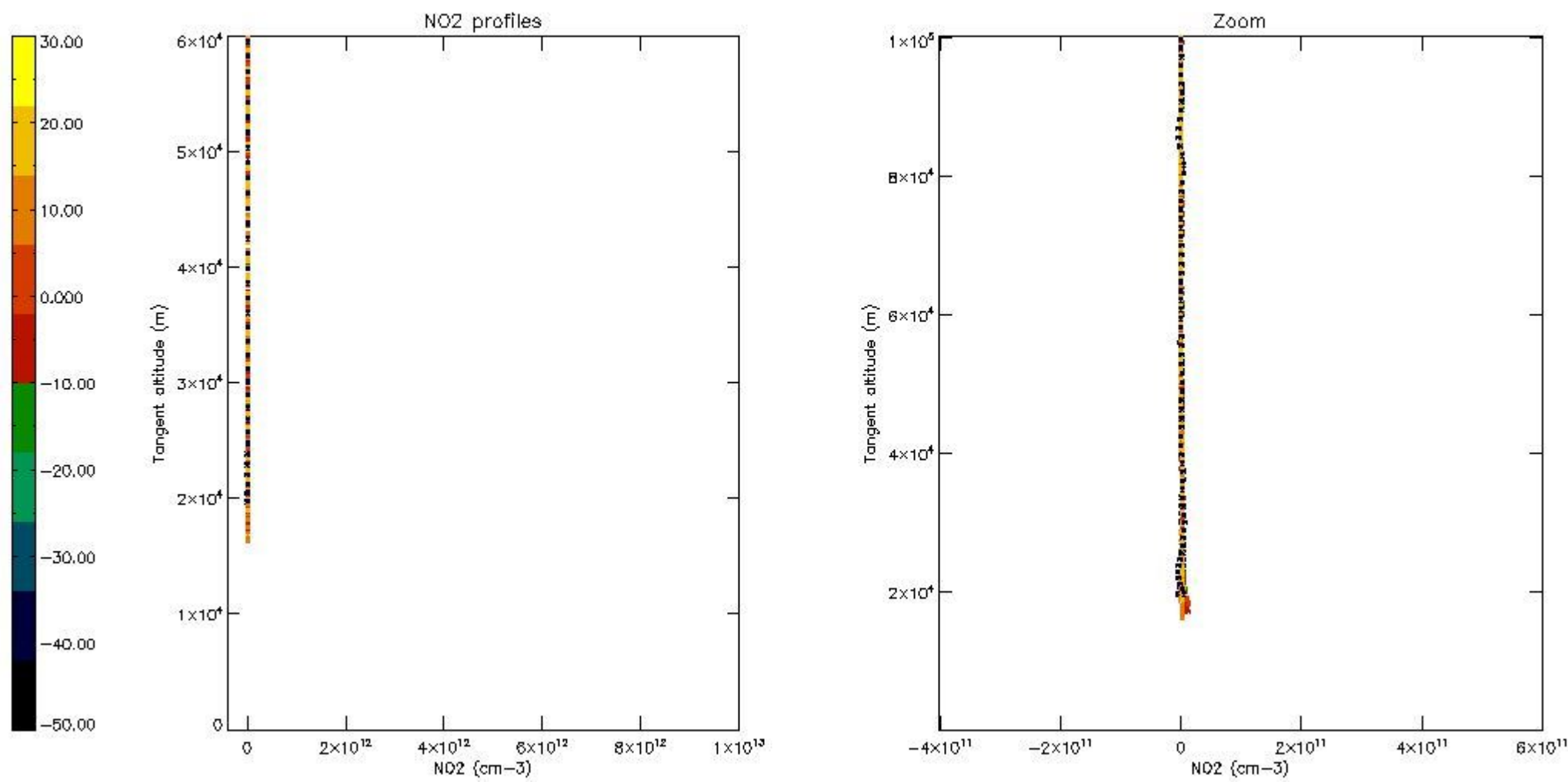
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



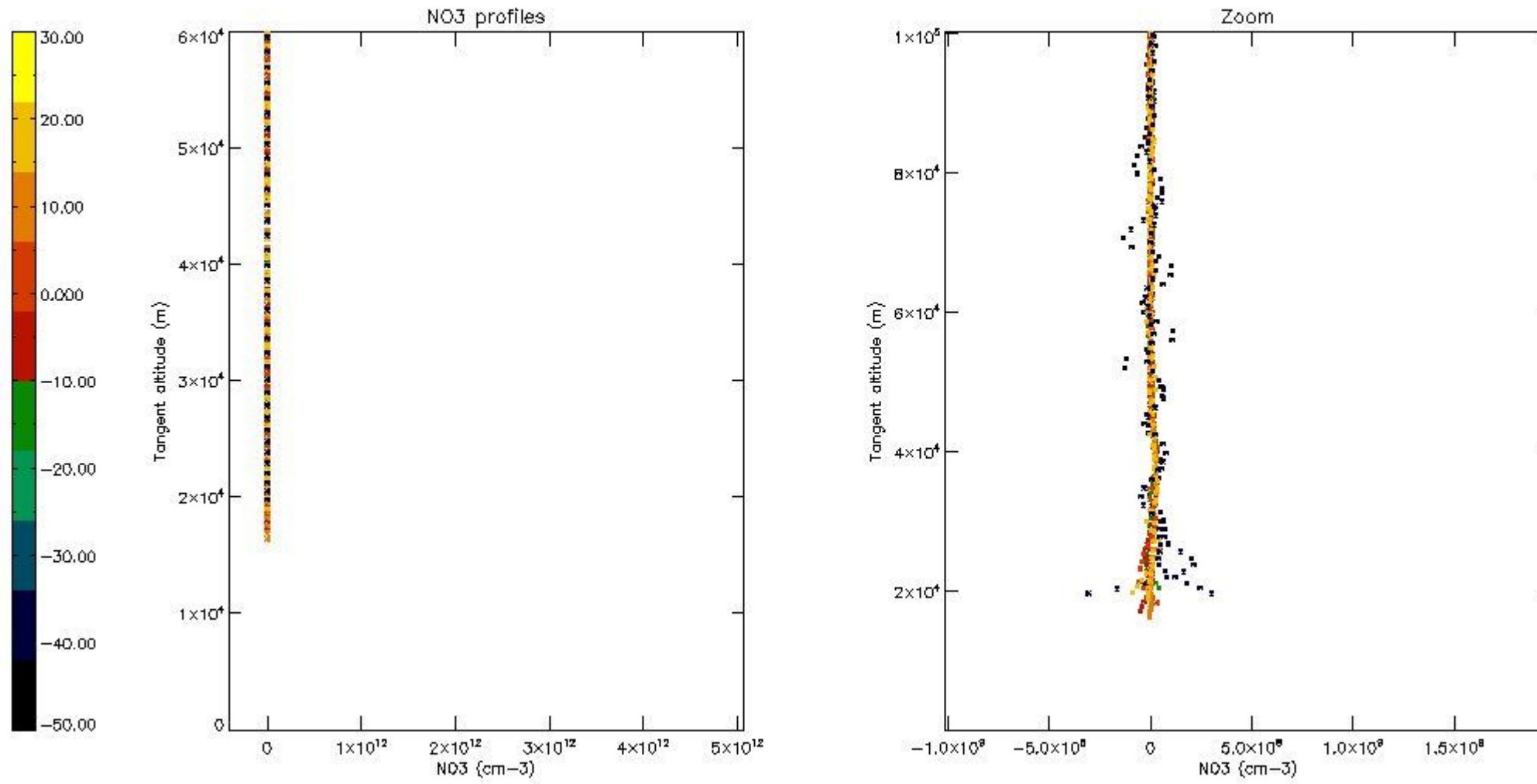
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

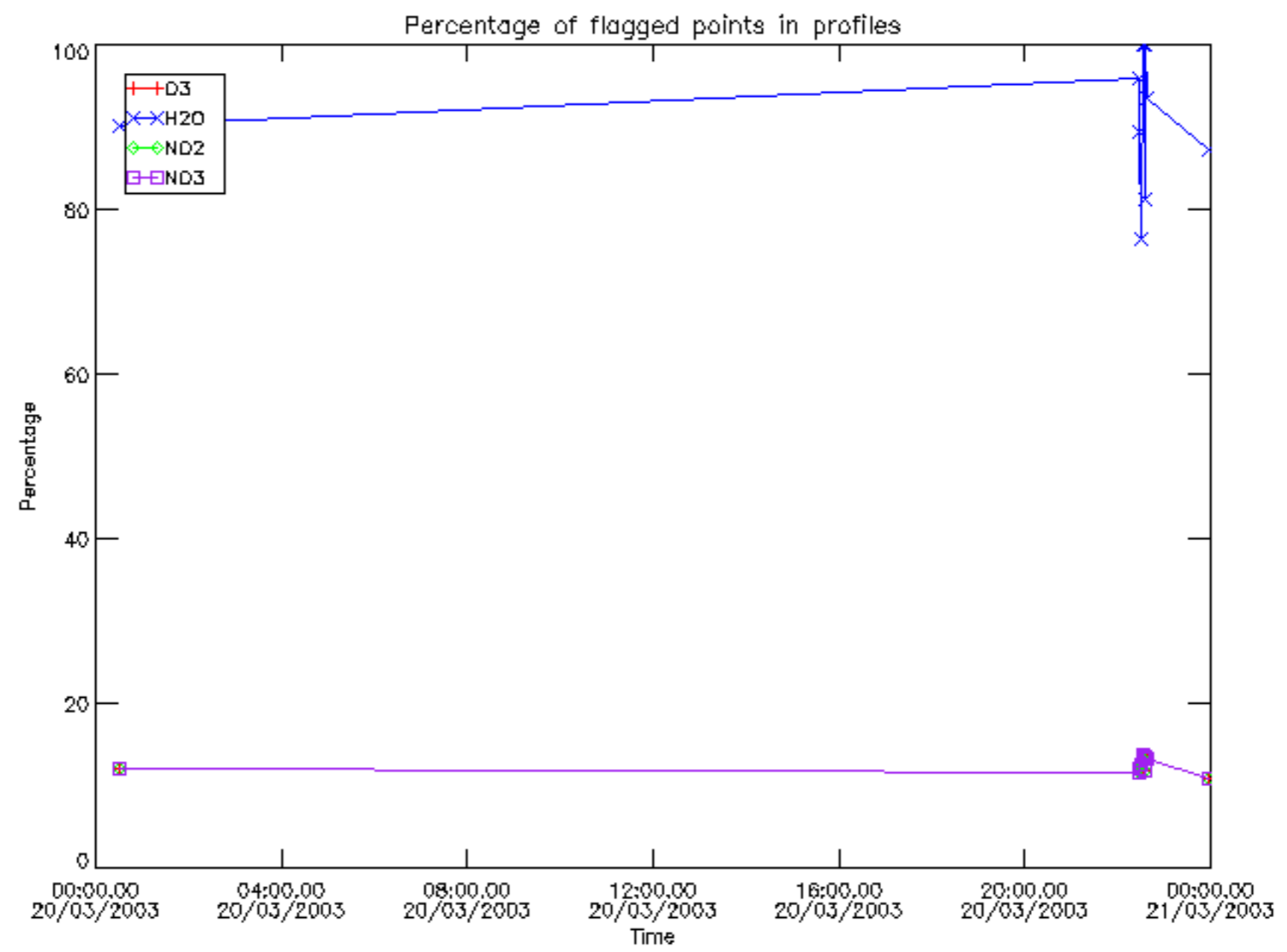
The colorbar represents the latitude.



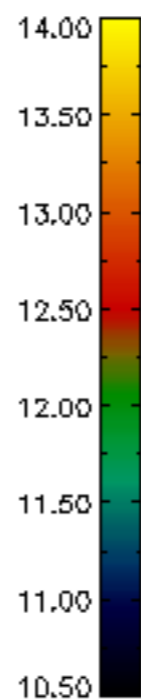
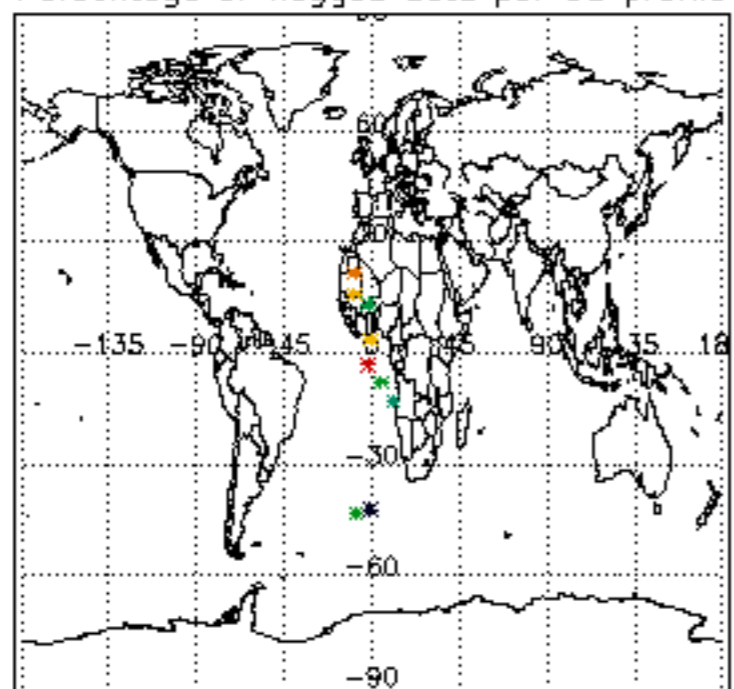
6. Auxiliary Data Files used for the production reported in section 2

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.

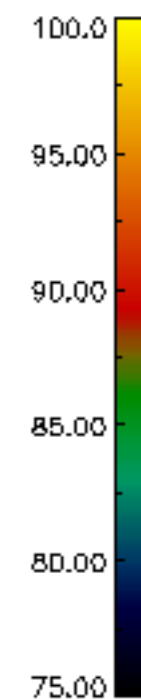
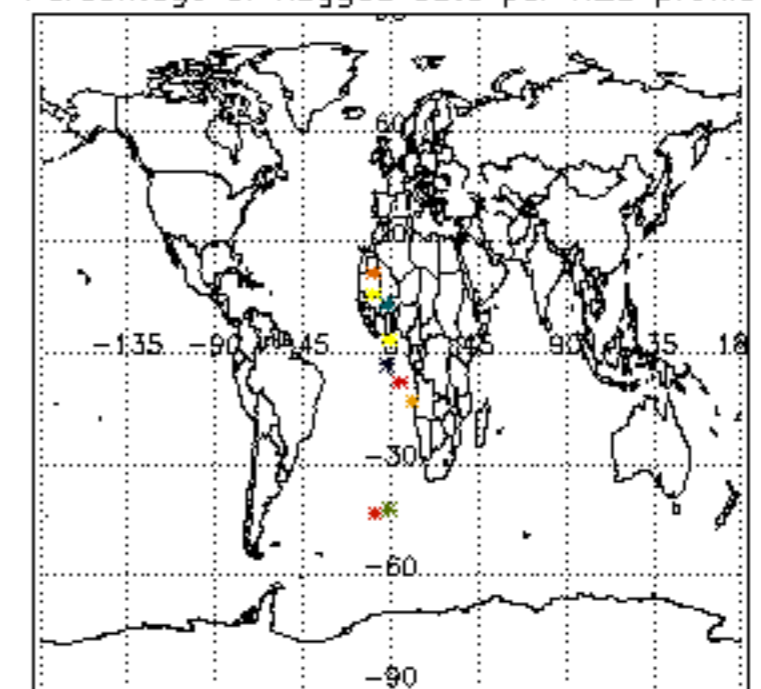
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	20-MAR-2003 00:01:21
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	20-MAR-2003 00:01:21
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	20-MAR-2003 00:01:21



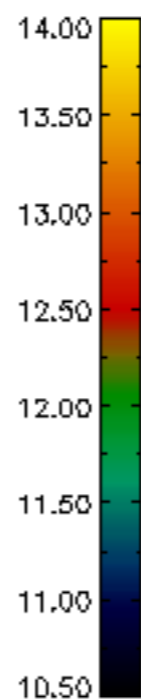
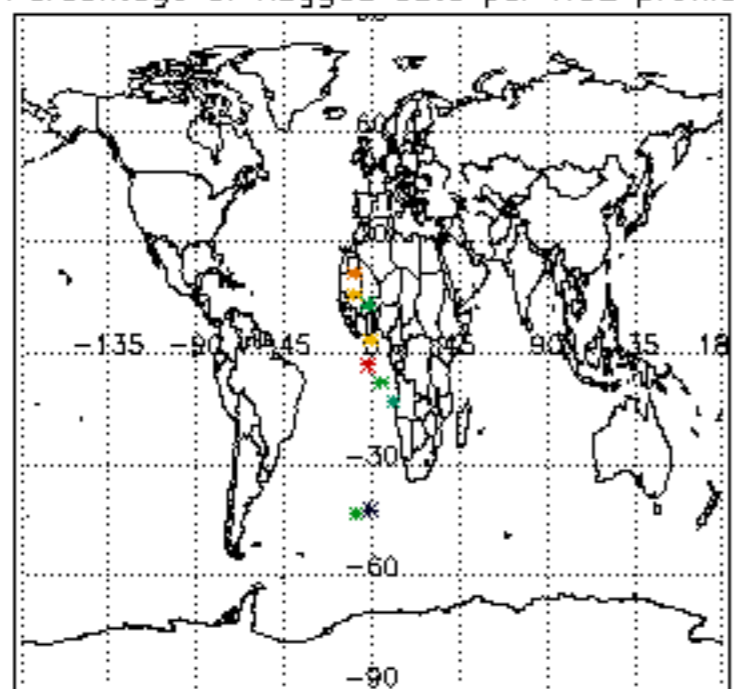
Percentage of flagged data per D3 profile



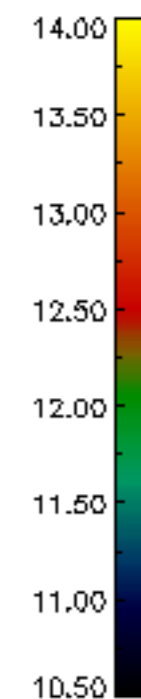
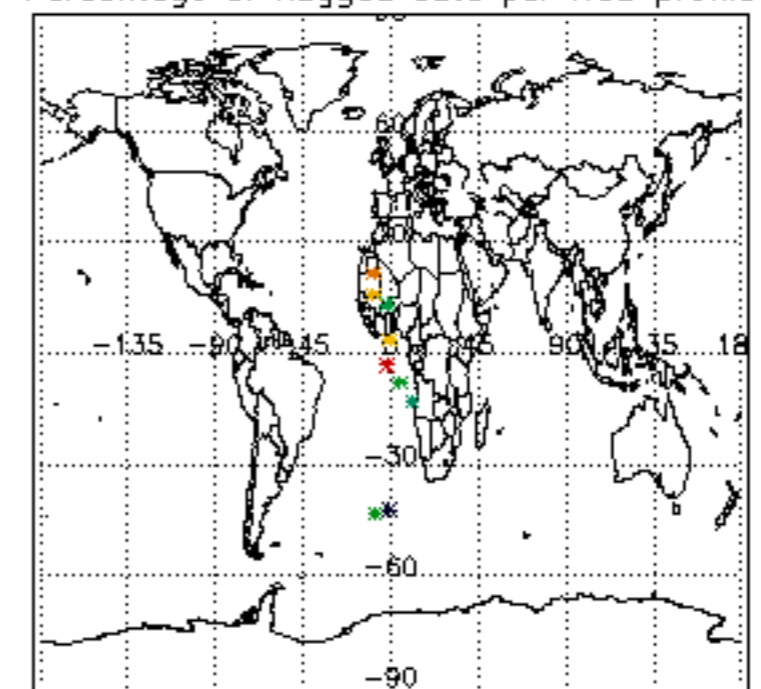
Percentage of flagged data per H2O profile

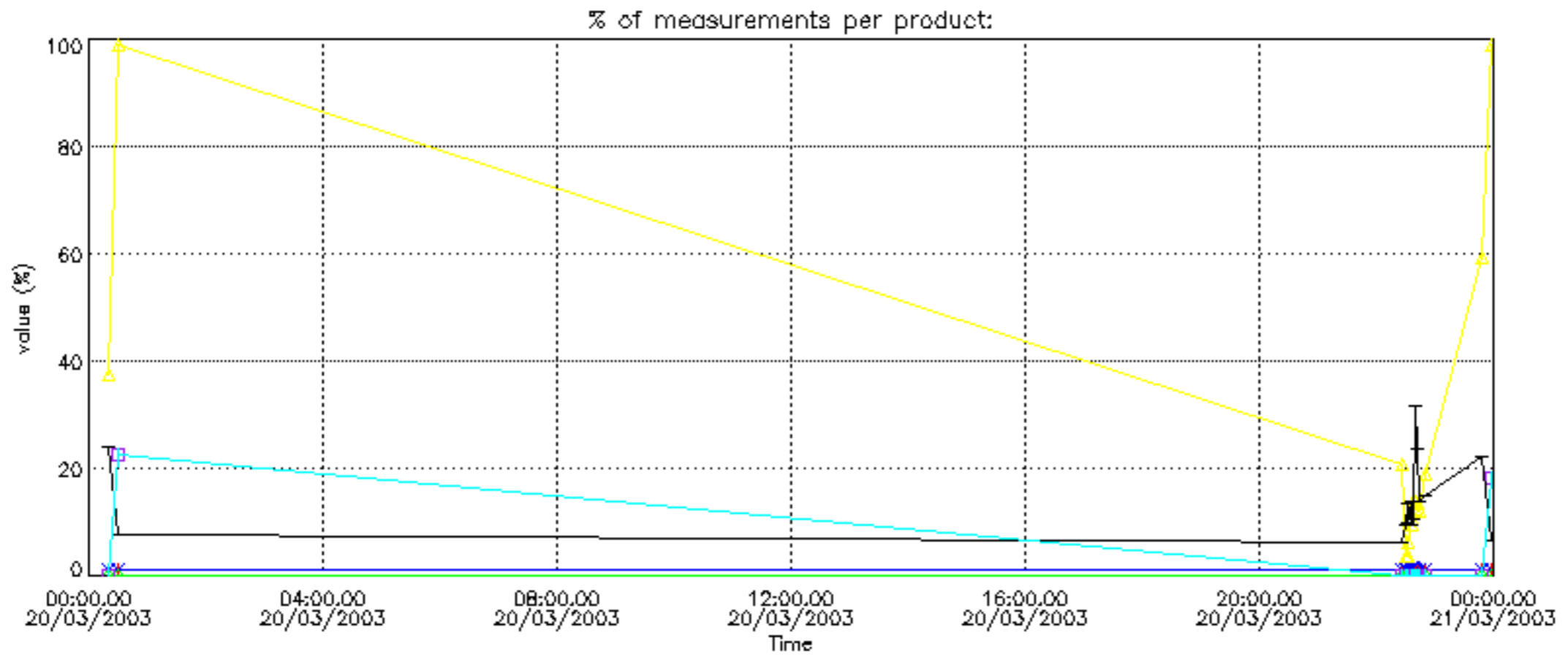


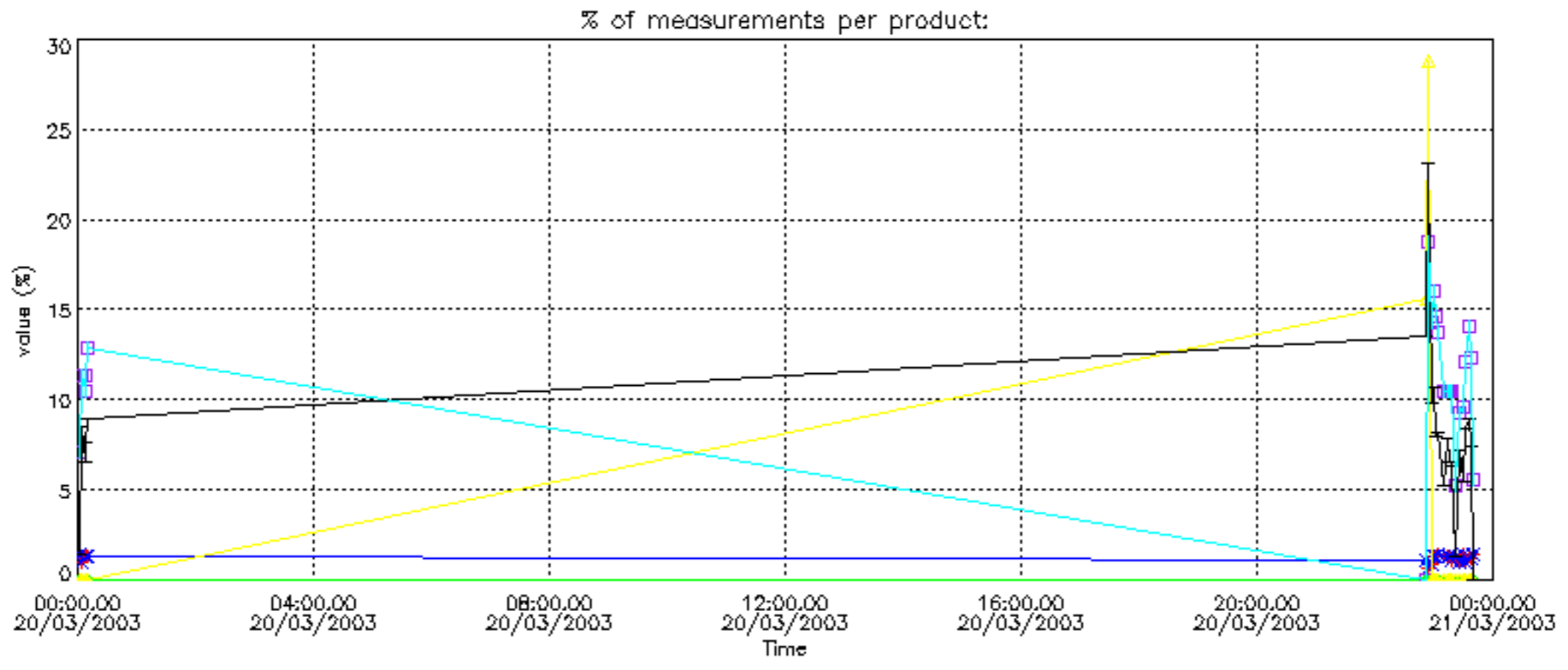
Percentage of flagged data per NO2 profile



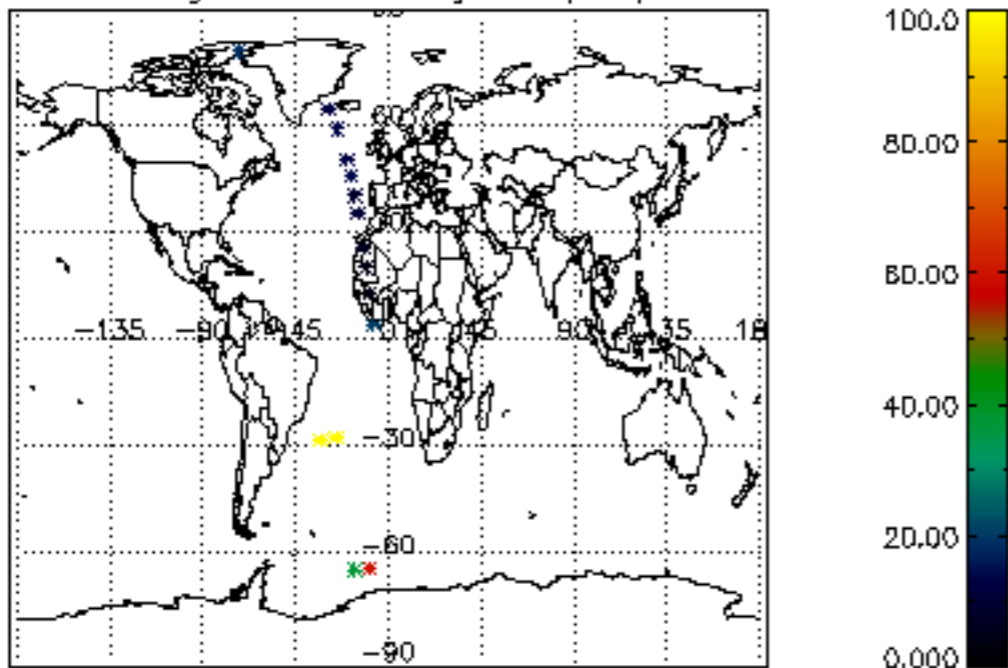
Percentage of flagged data per NO3 profile



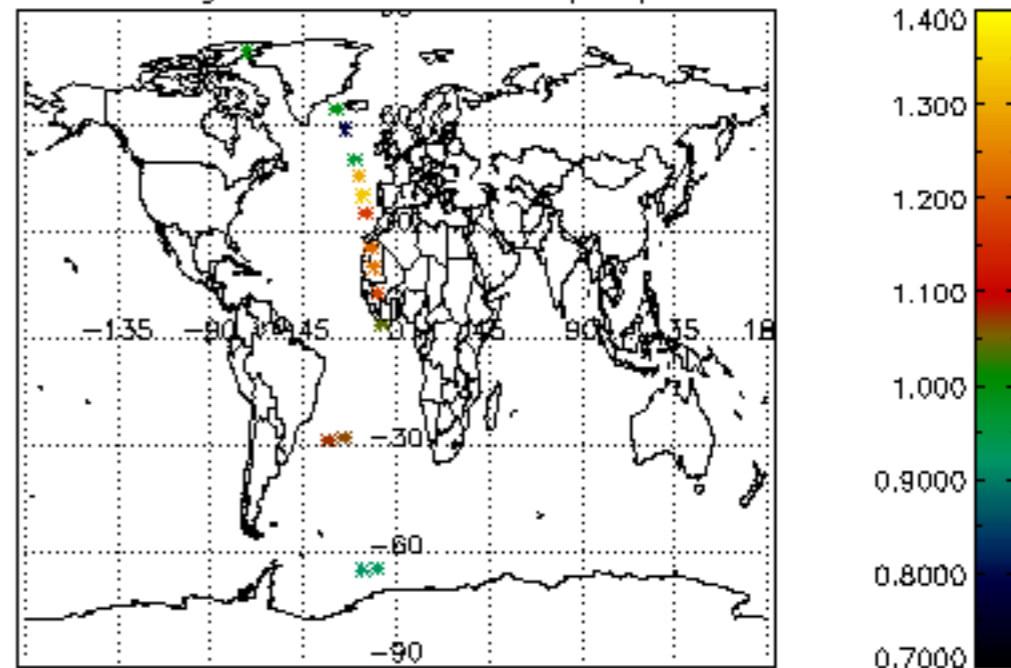




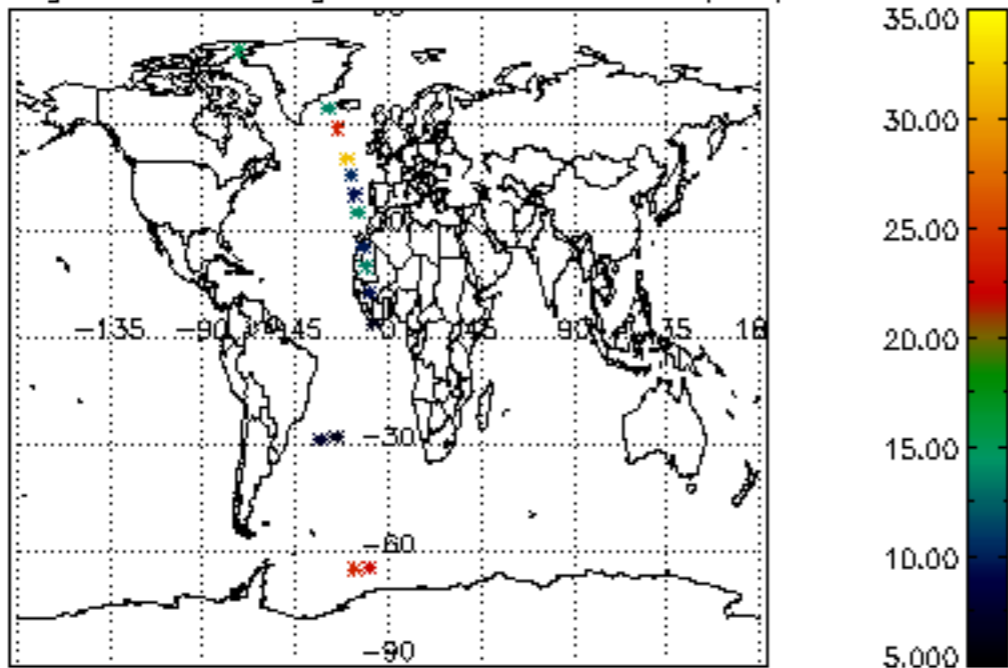
Percentage of cosmic ray hits per profile



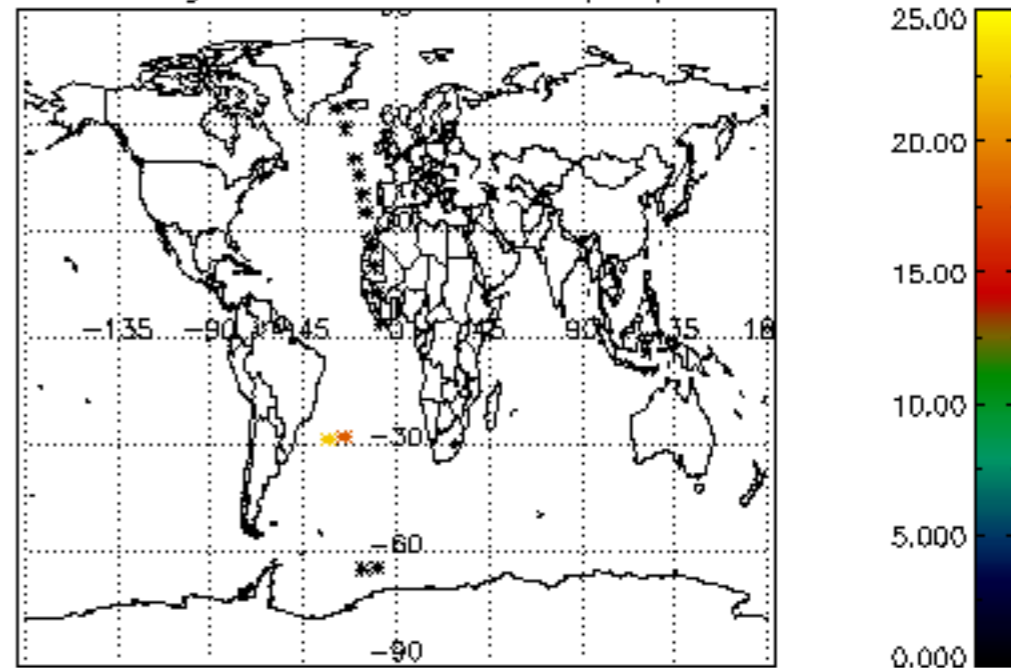
Percentage of datation errors per profile



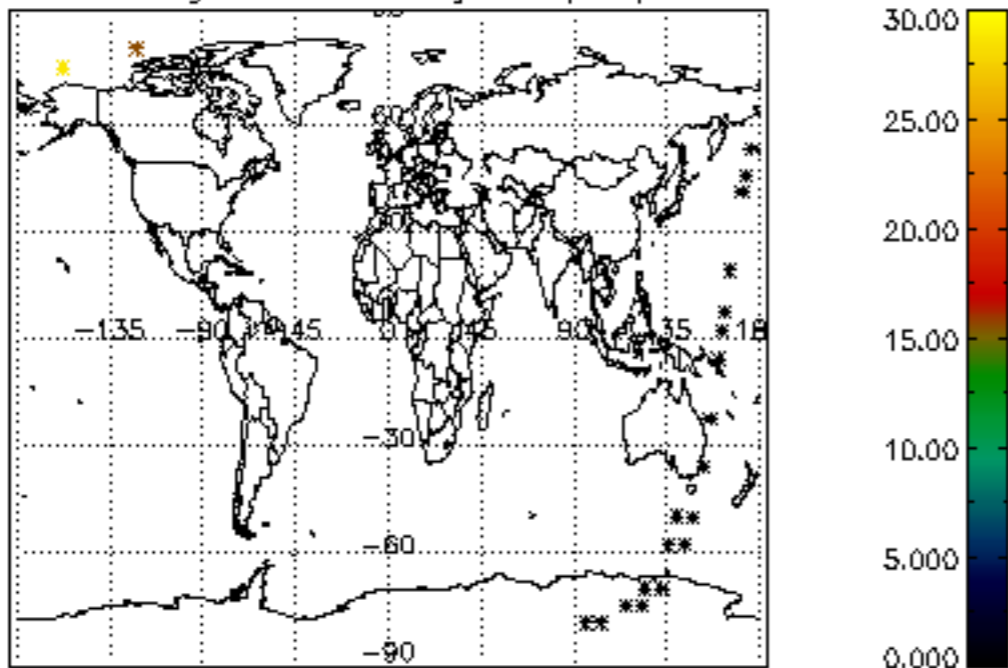
Percentage of star falling outside central band per profile



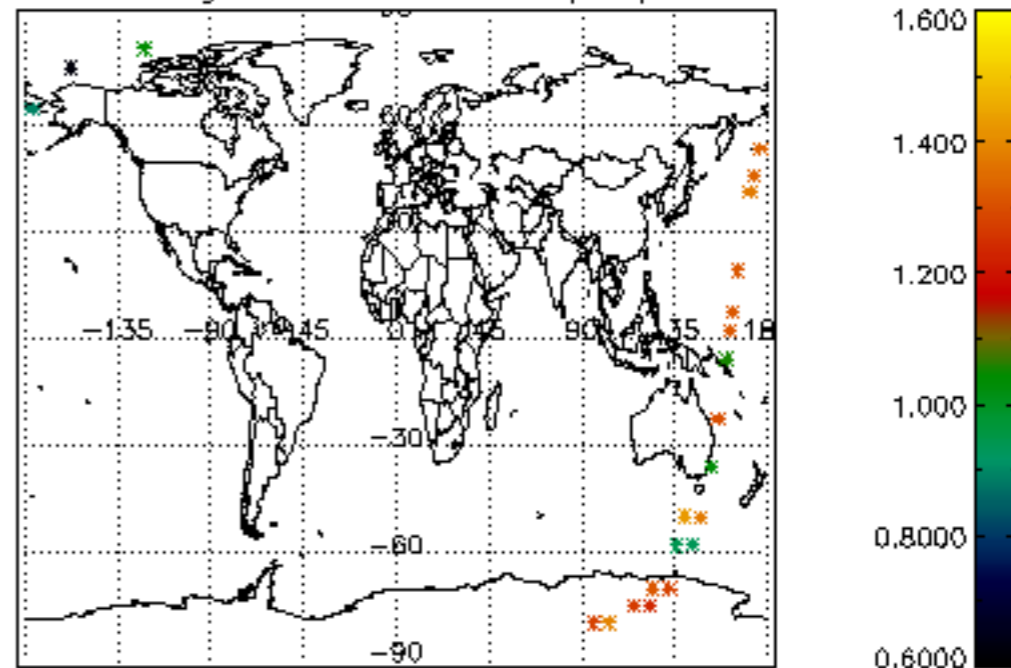
Percentage of saturation errors per profile



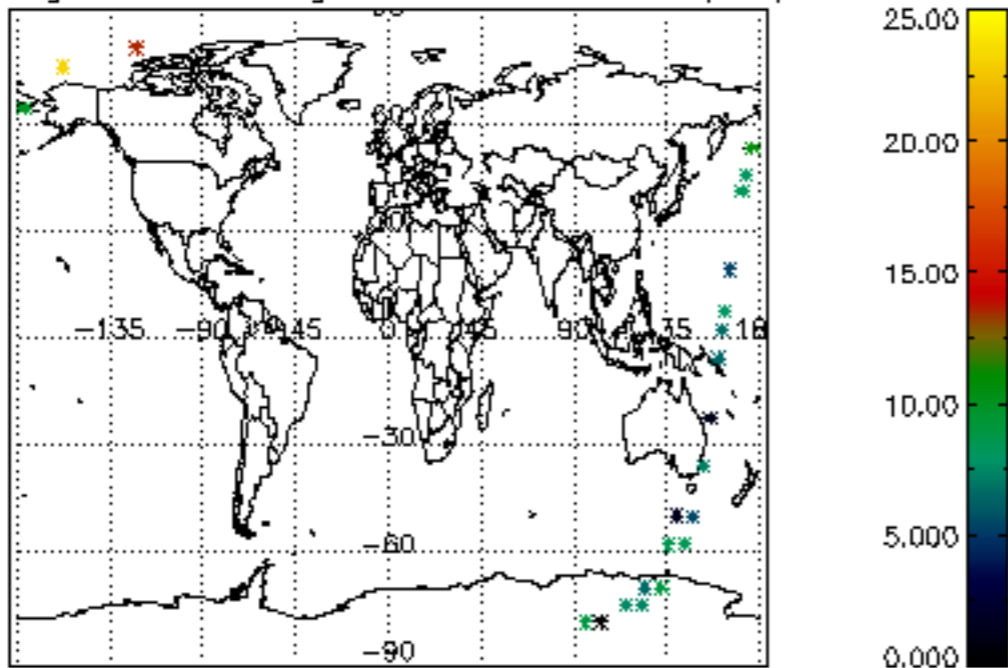
Percentage of cosmic ray hits per profile



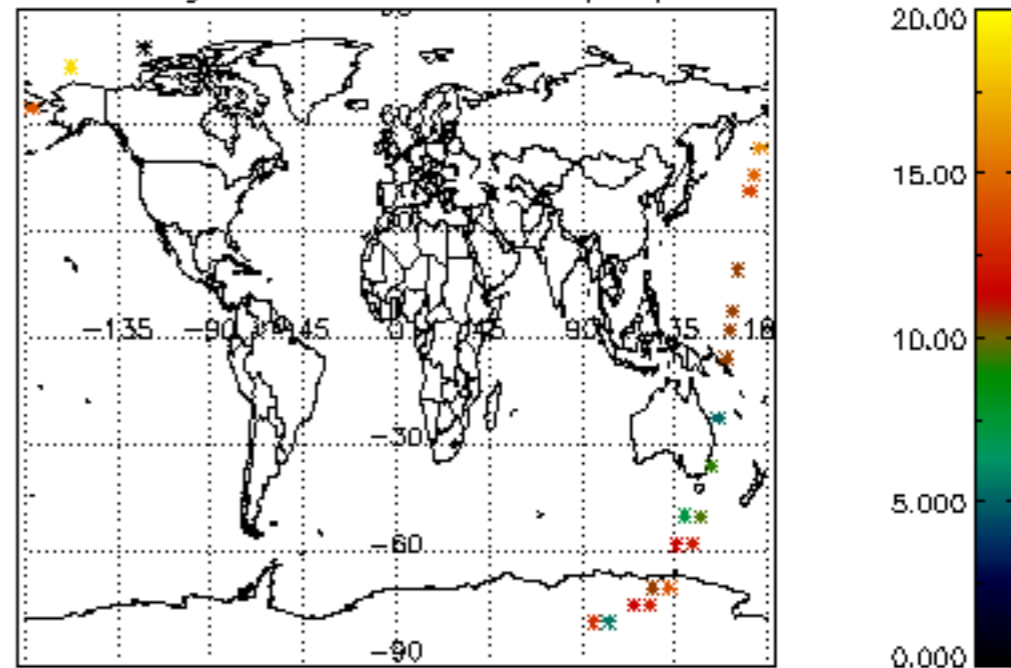
Percentage of datation errors per profile

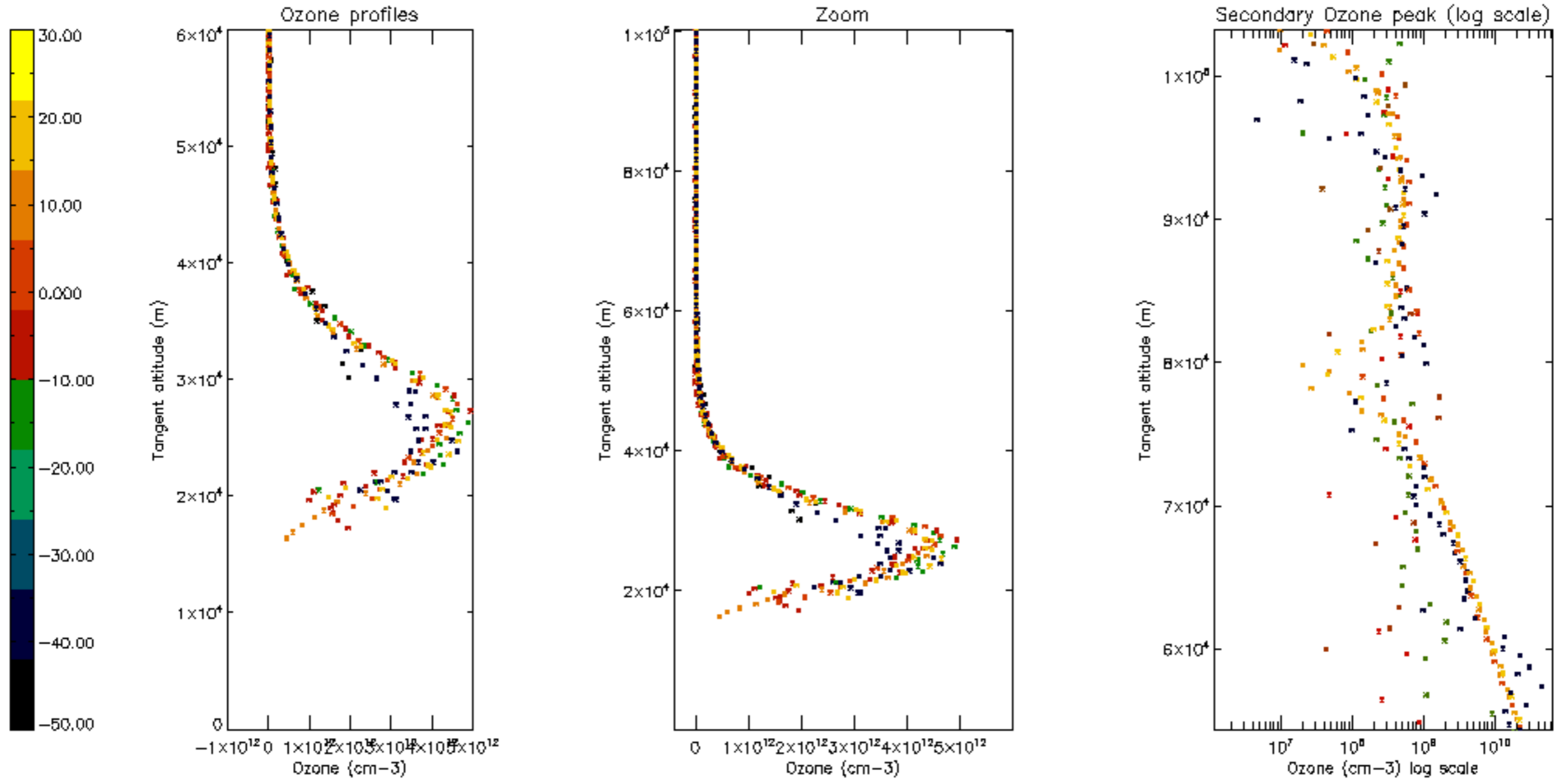


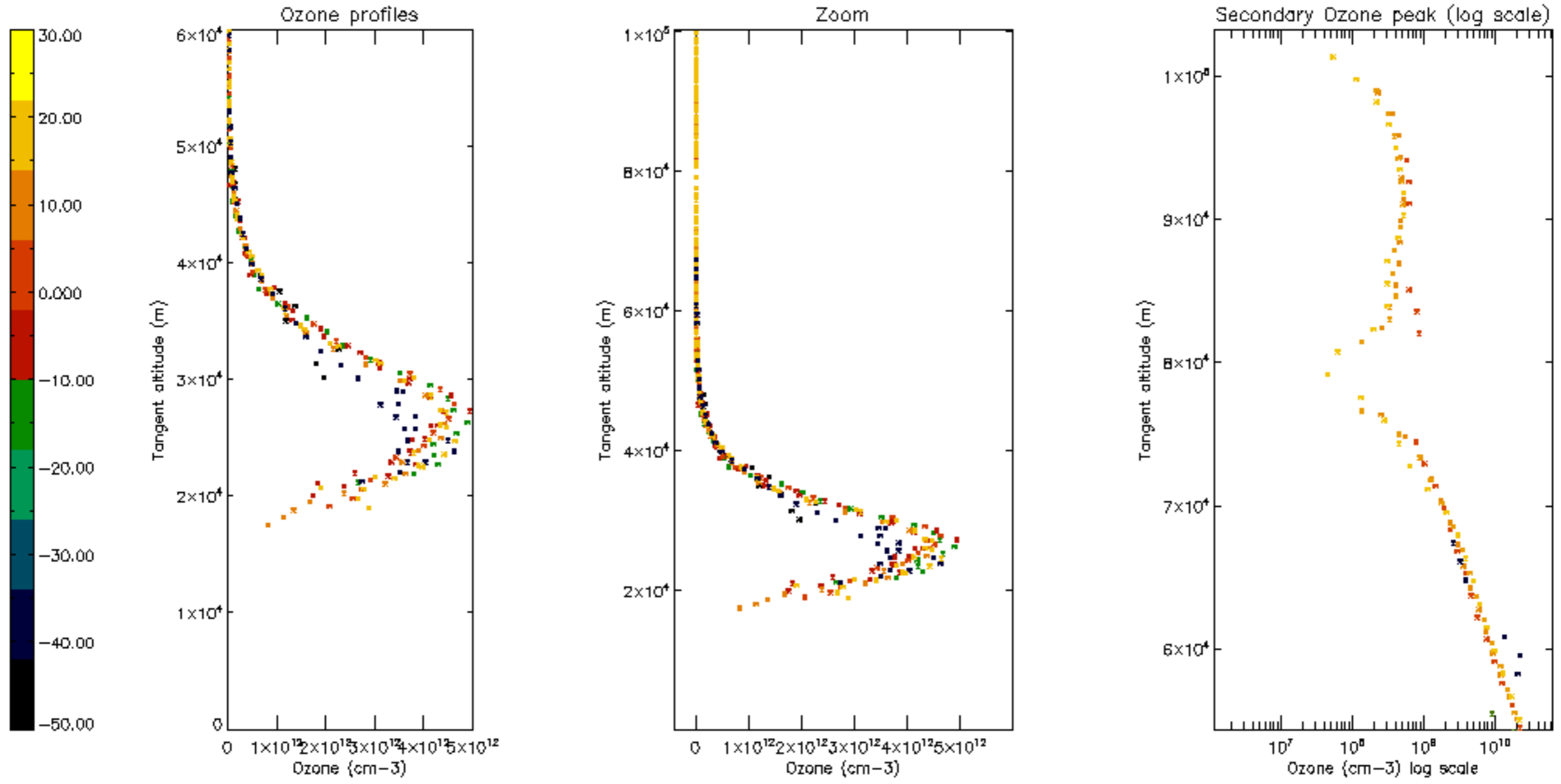
Percentage of star falling outside central band per profile

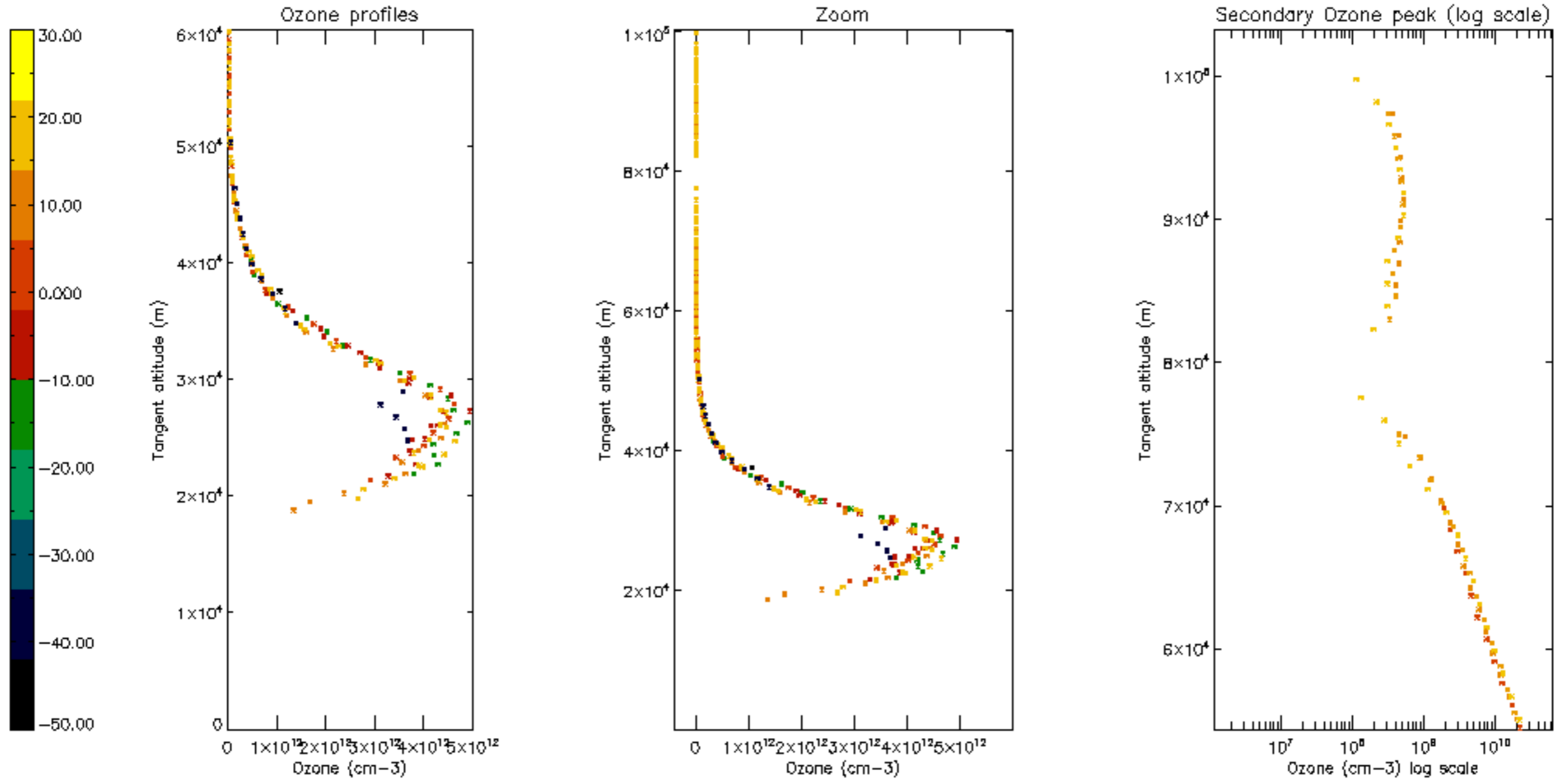


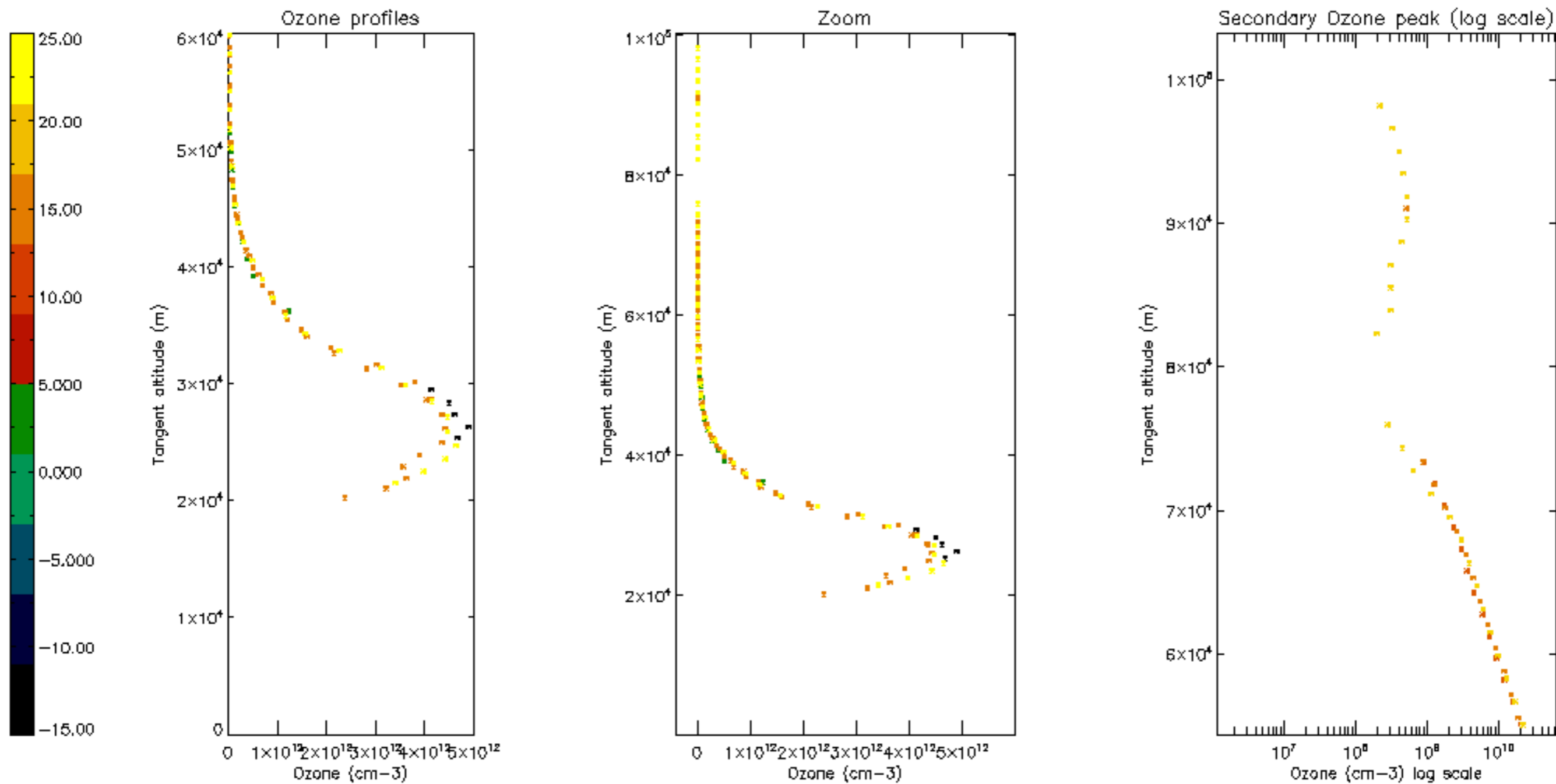
Percentage of saturation errors per profile

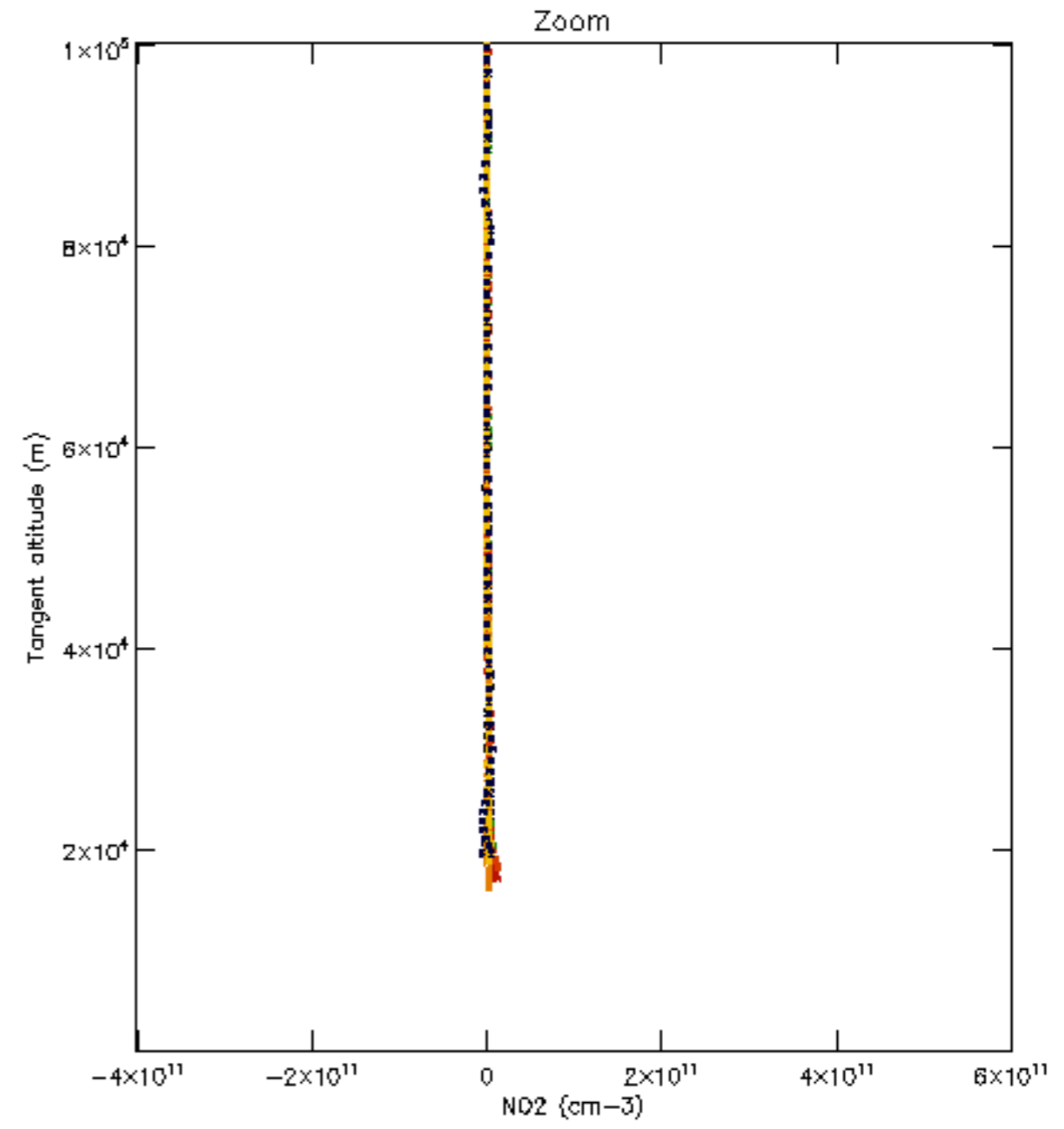
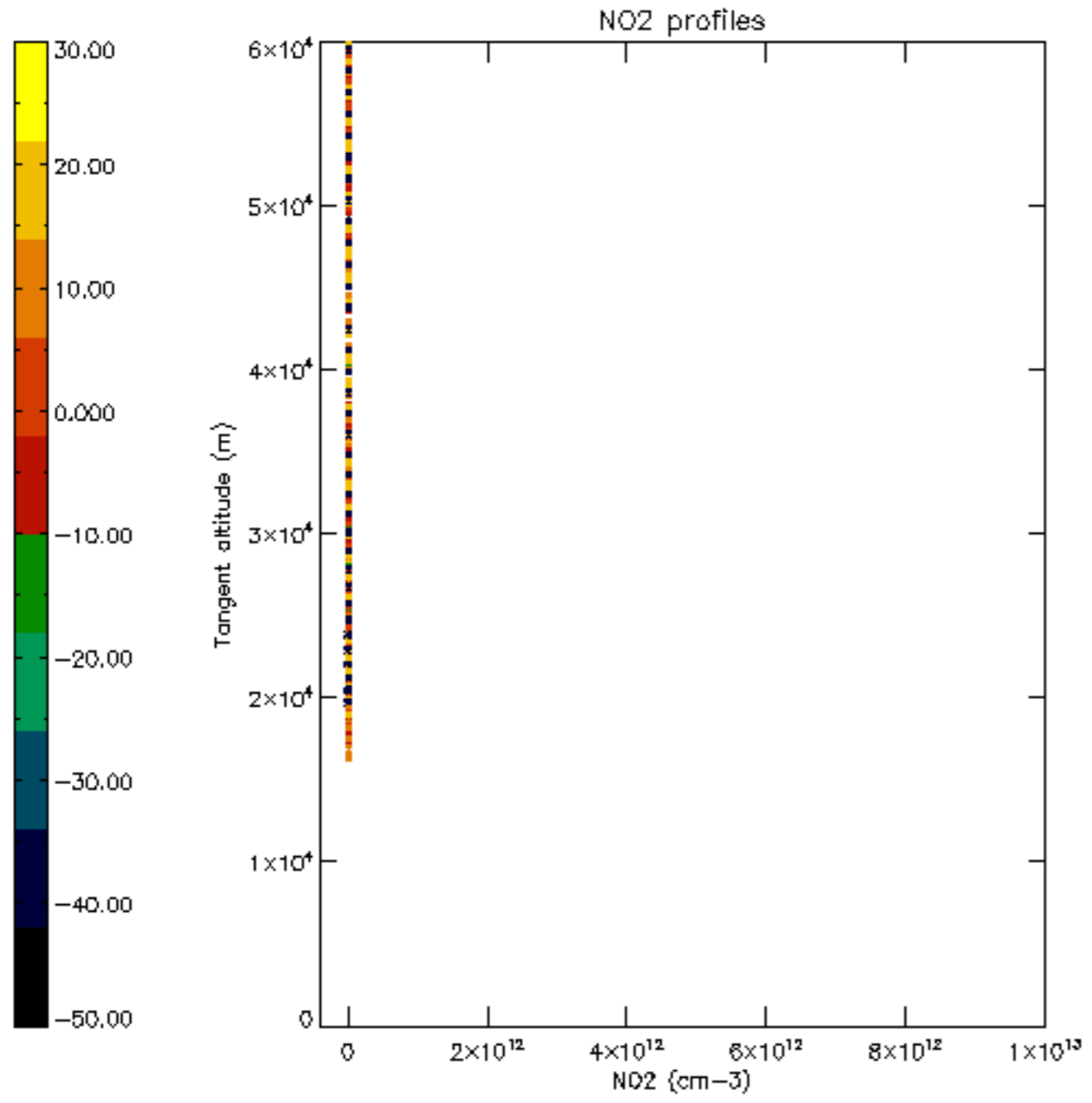


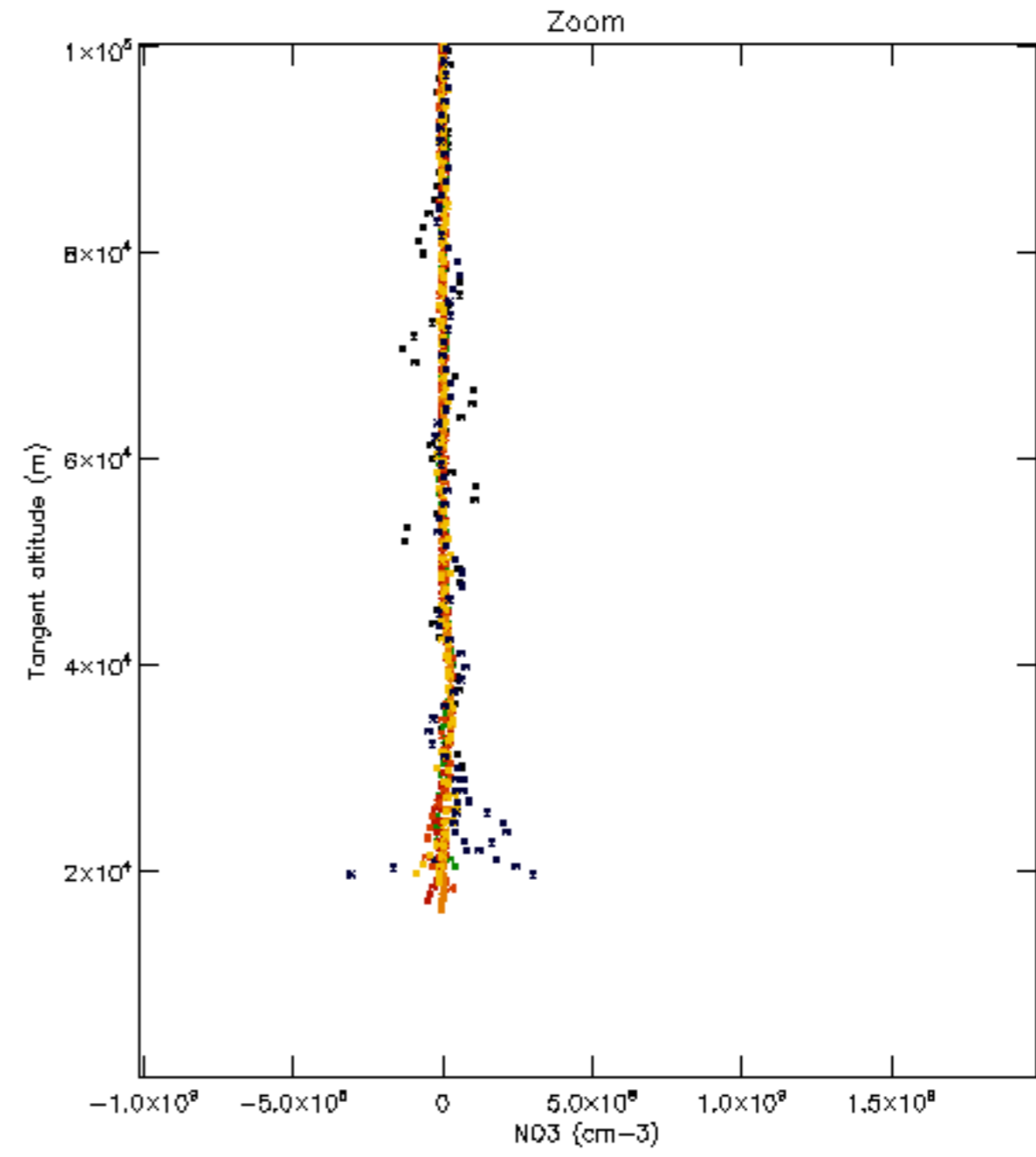
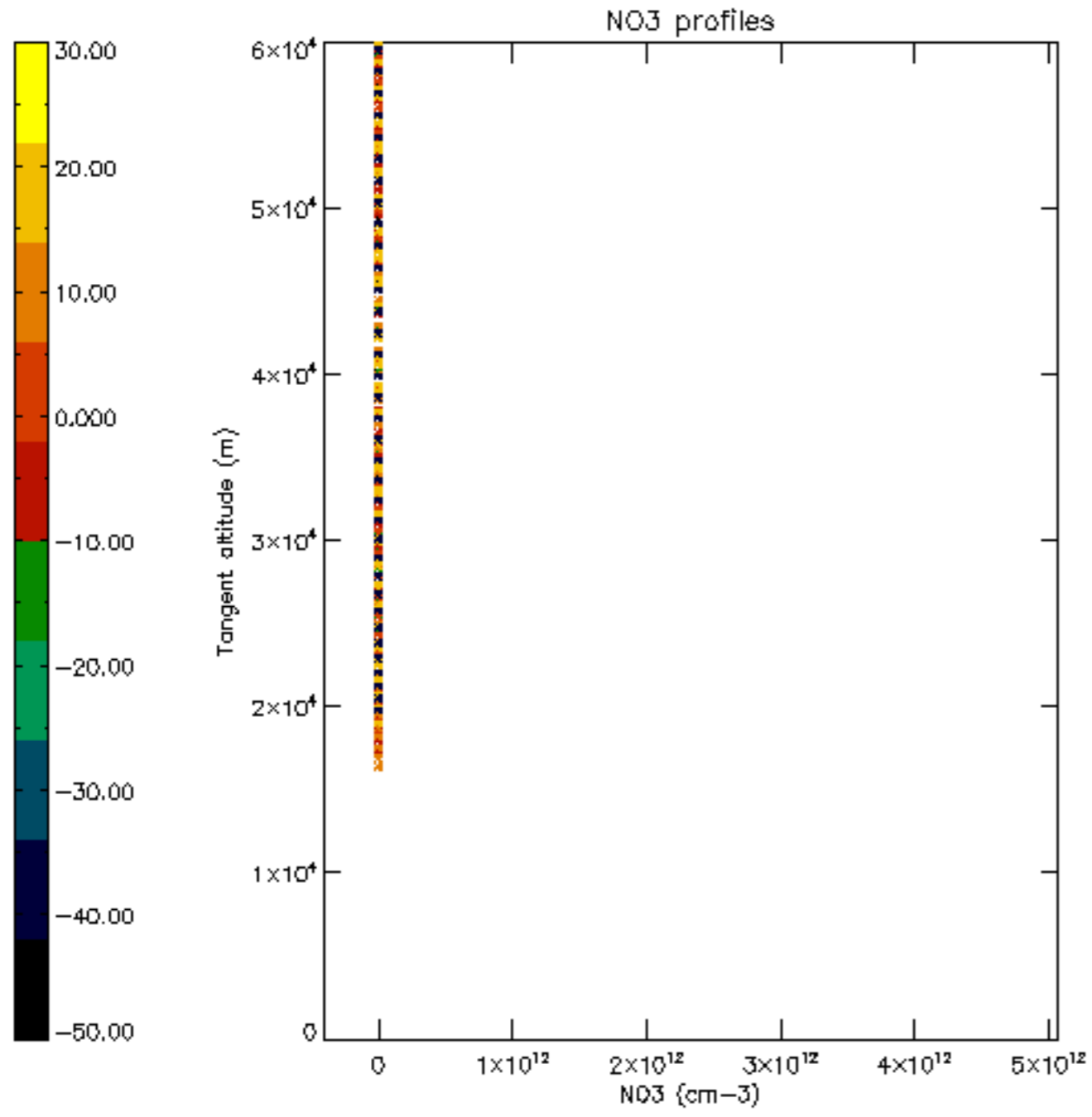


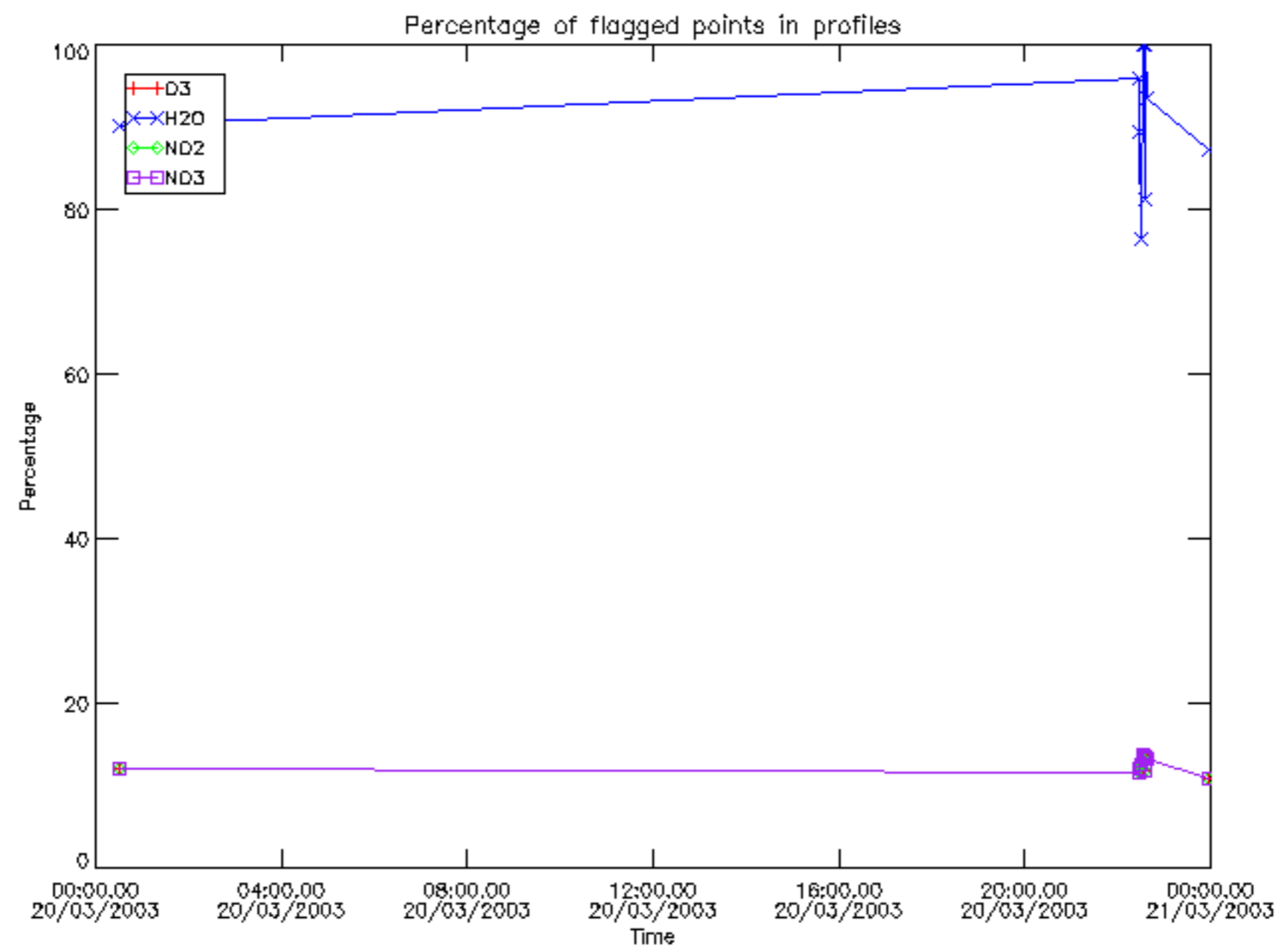




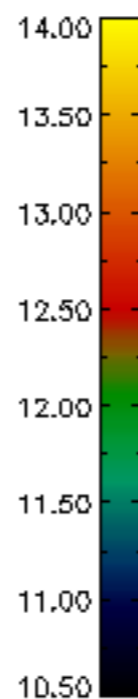
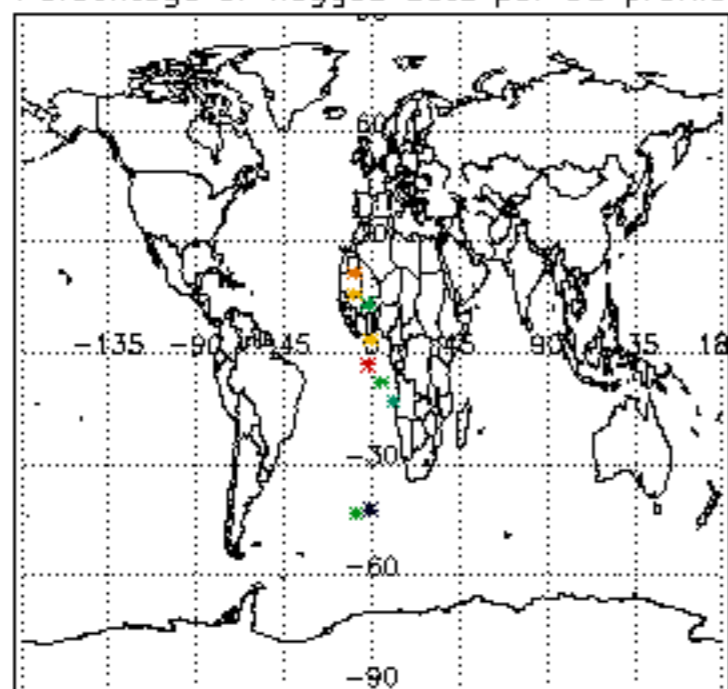




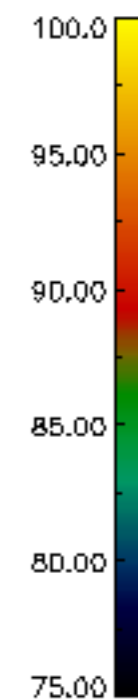
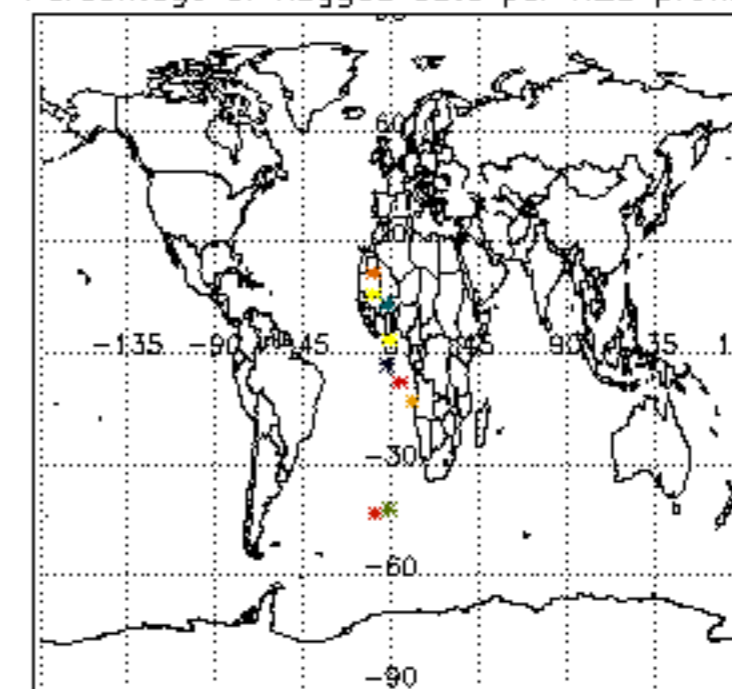




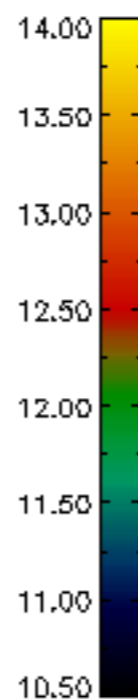
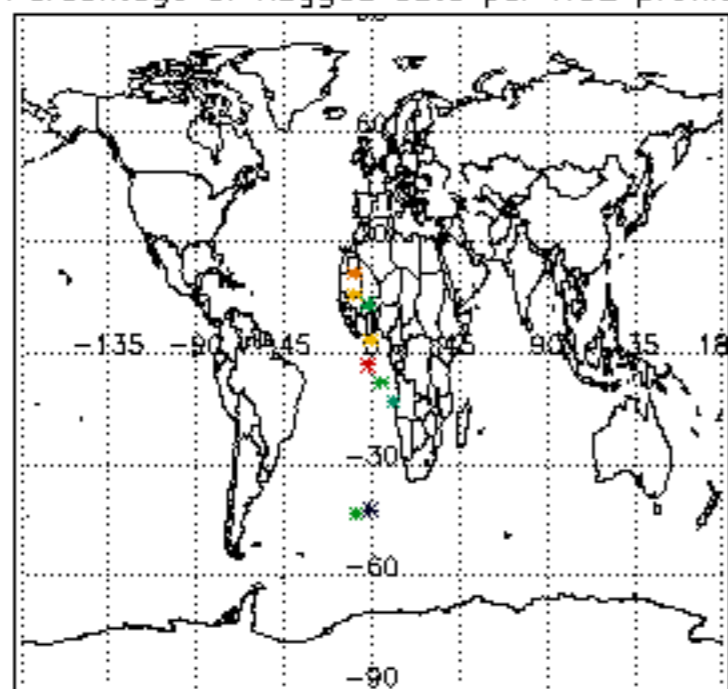
Percentage of flagged data per D3 profile



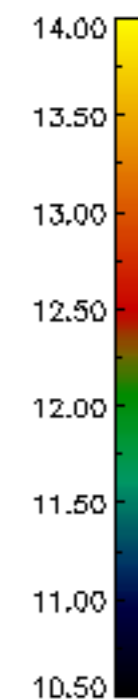
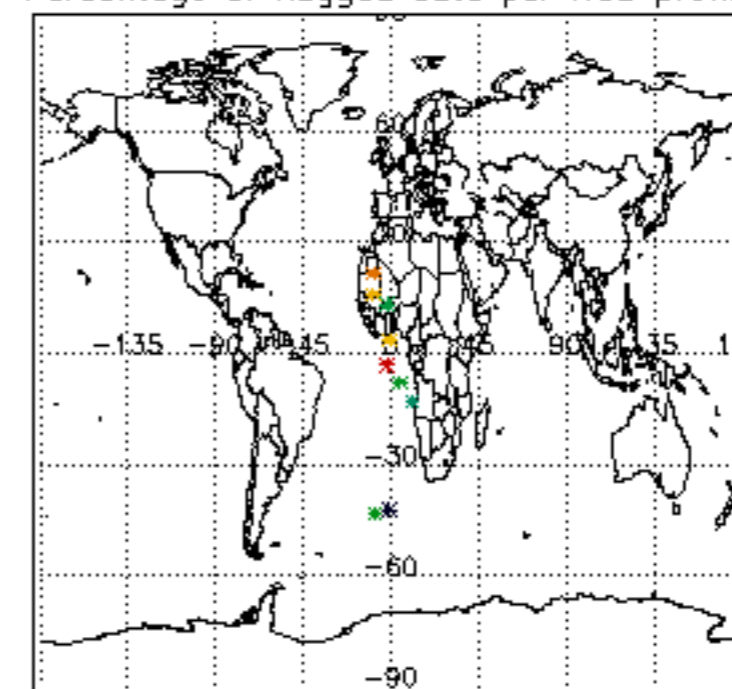
Percentage of flagged data per H2O profile

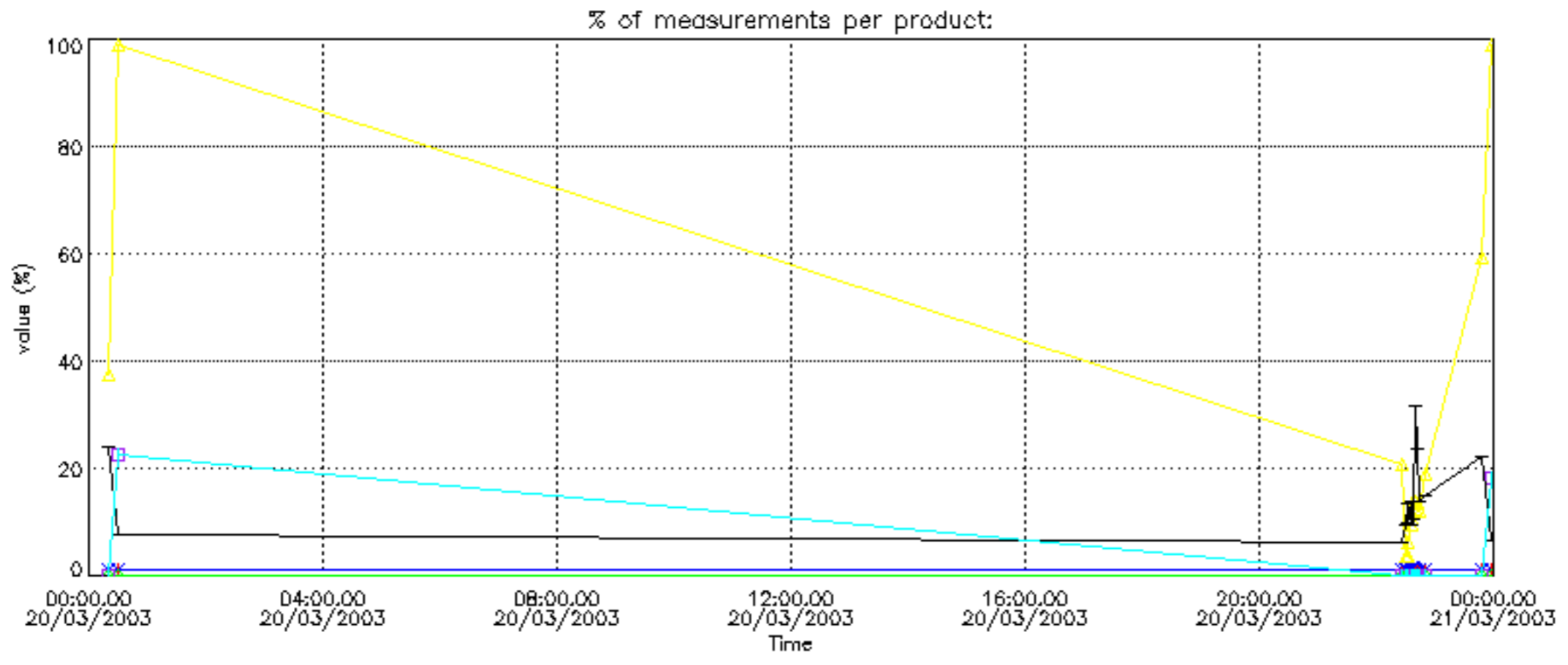


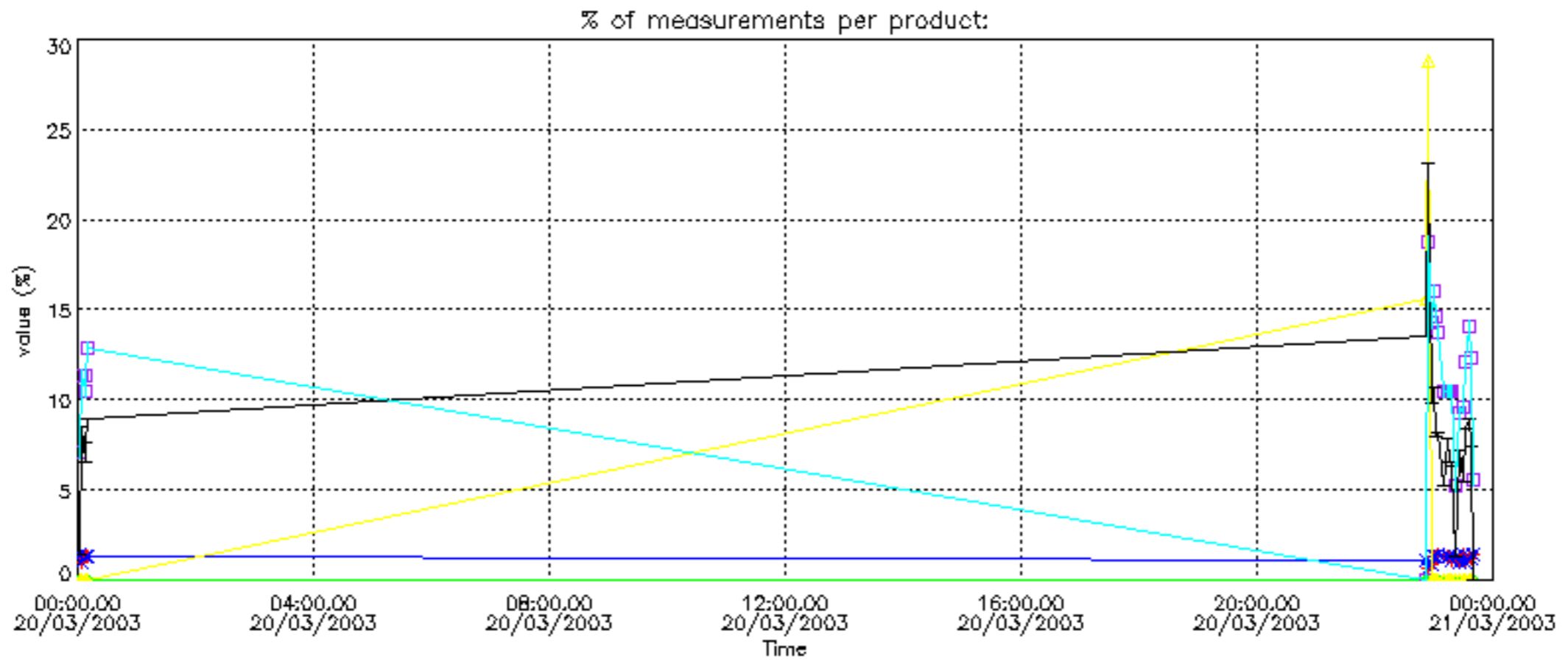
Percentage of flagged data per NO2 profile



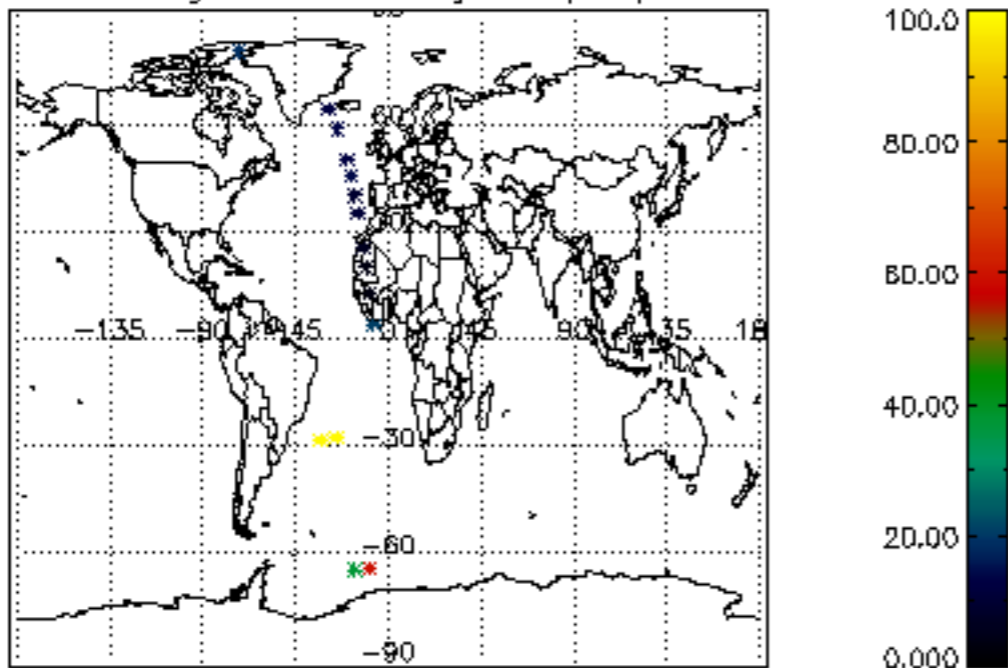
Percentage of flagged data per NO3 profile



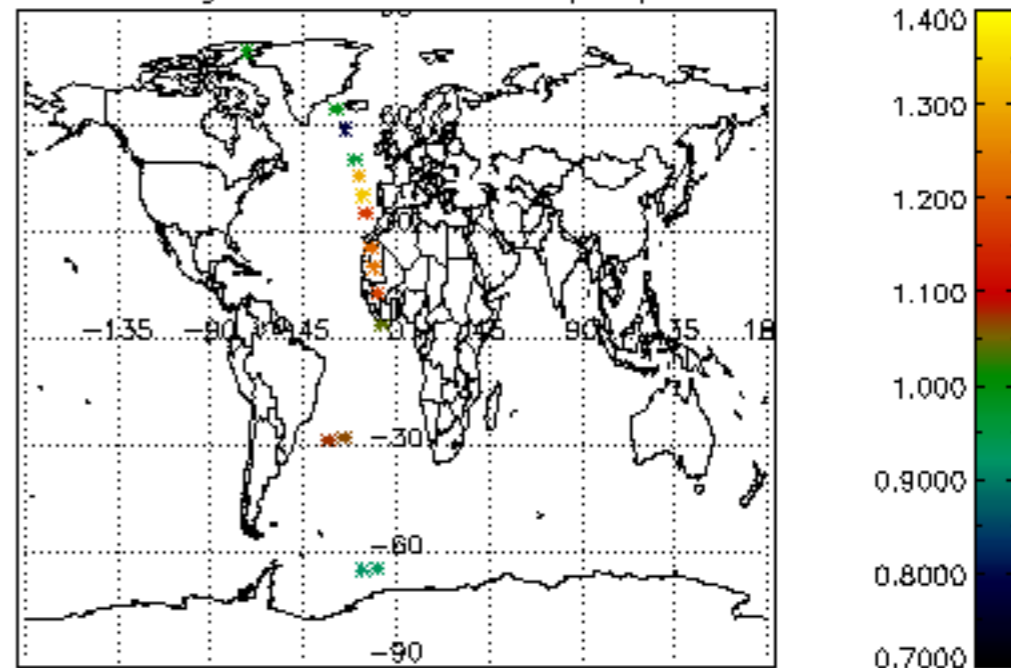




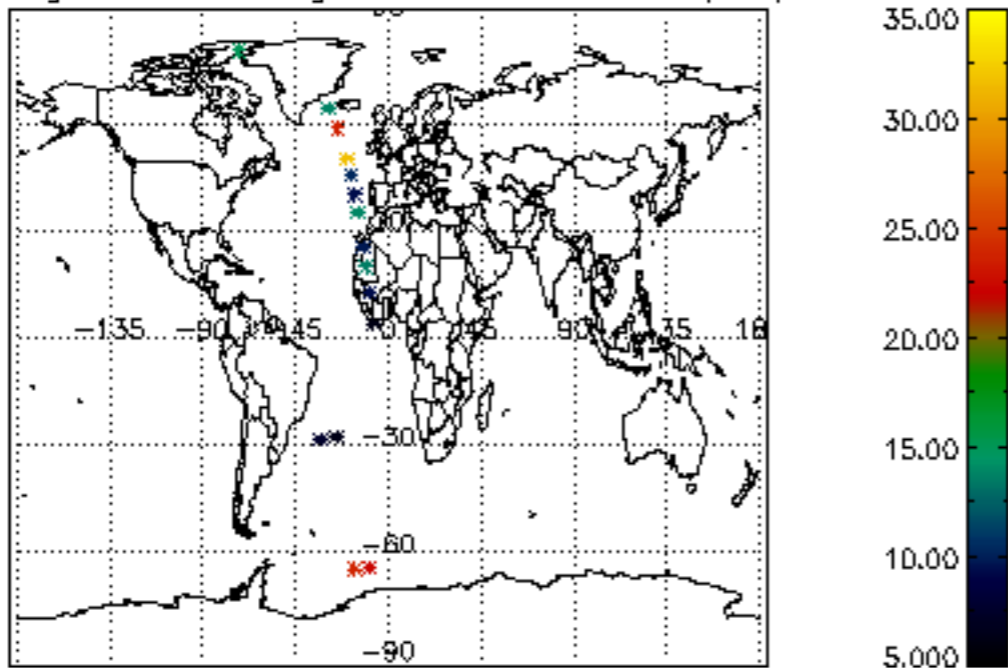
Percentage of cosmic ray hits per profile



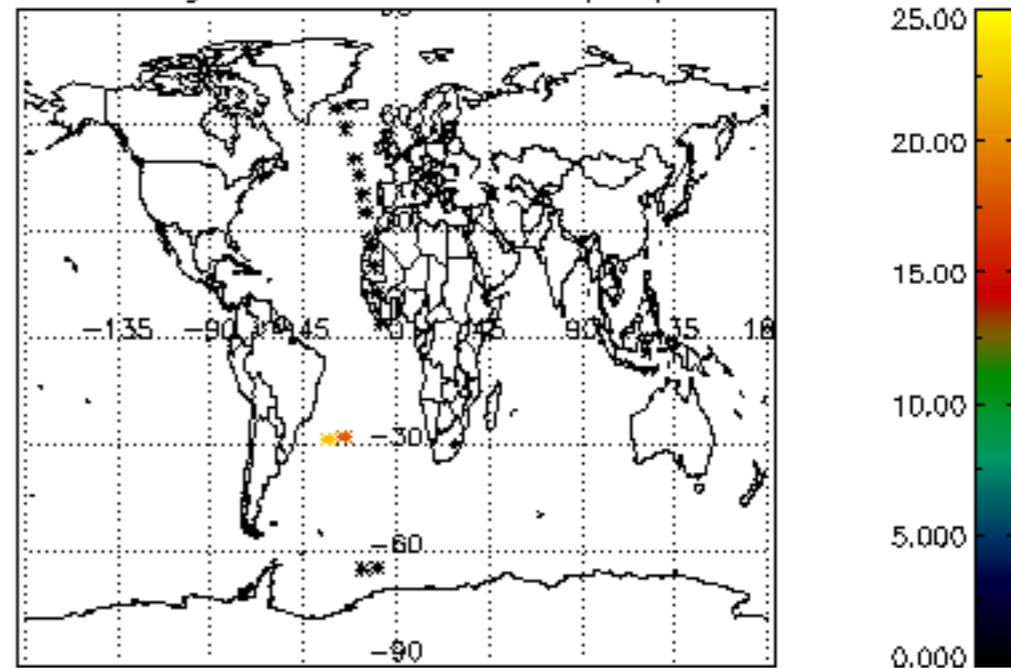
Percentage of datation errors per profile



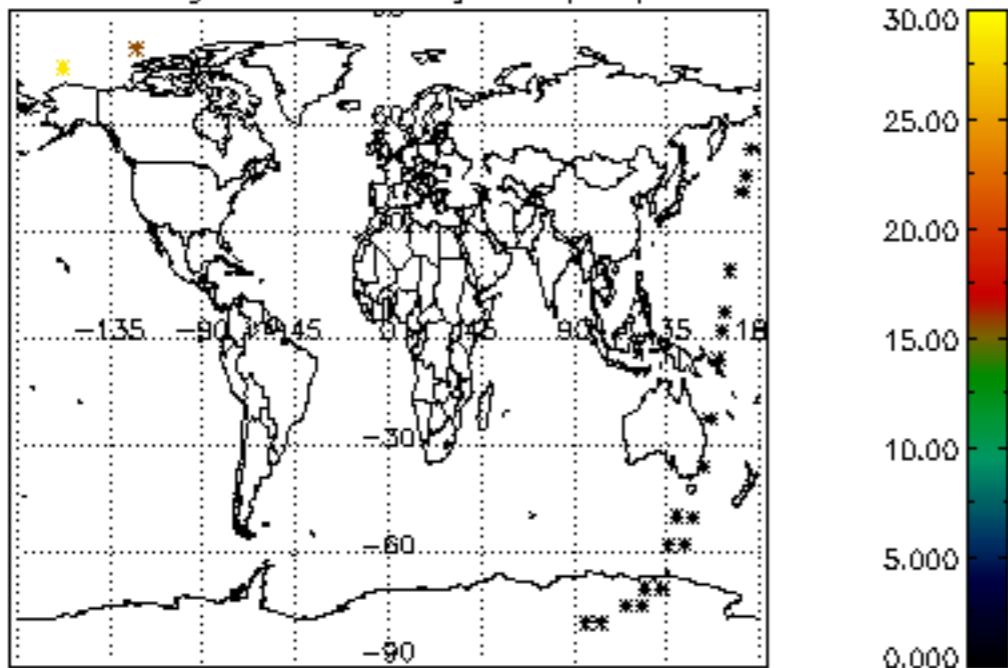
Percentage of star falling outside central band per profile



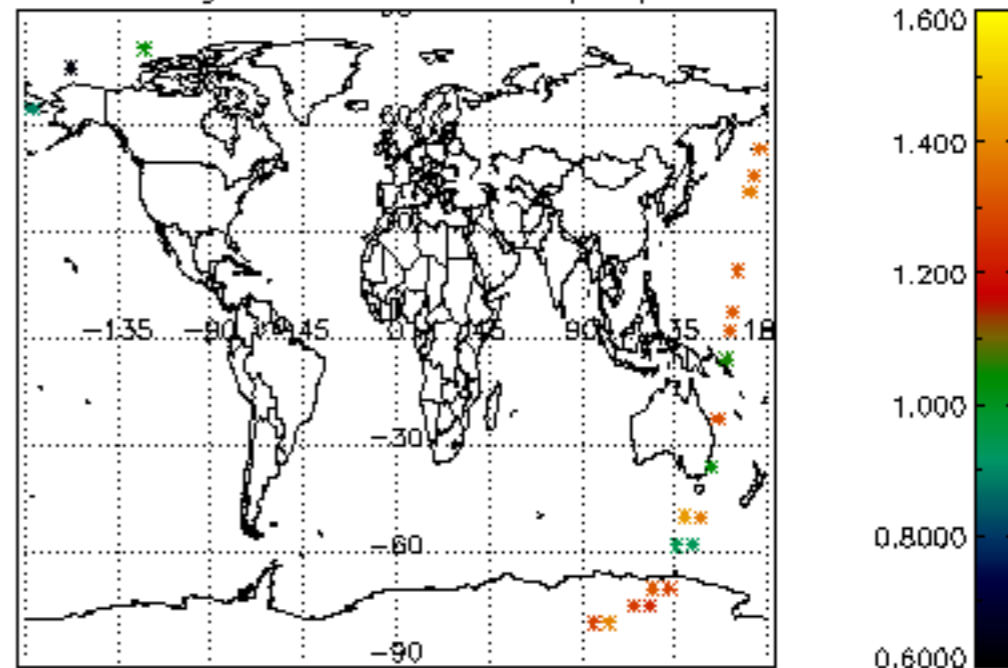
Percentage of saturation errors per profile



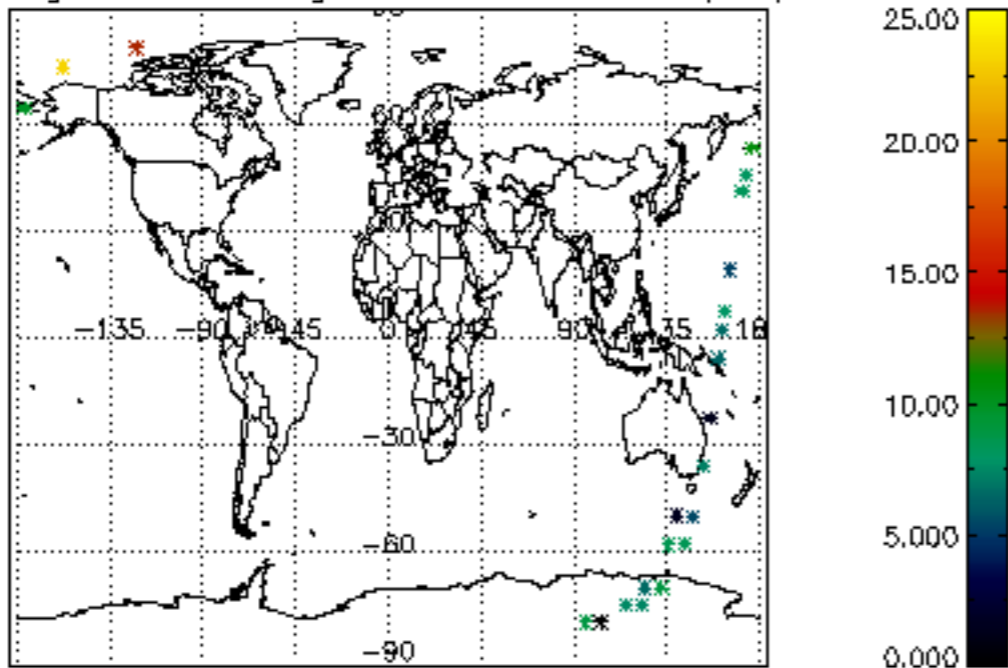
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

