

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 17:49:12
Data source version	GOMOS/6.01
Start time of products	13-08-2002 (13AUG2002 00:00:00)
Stop time of products	14-08-2002 (14AUG2002 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	42
Nb of prods with errors	0

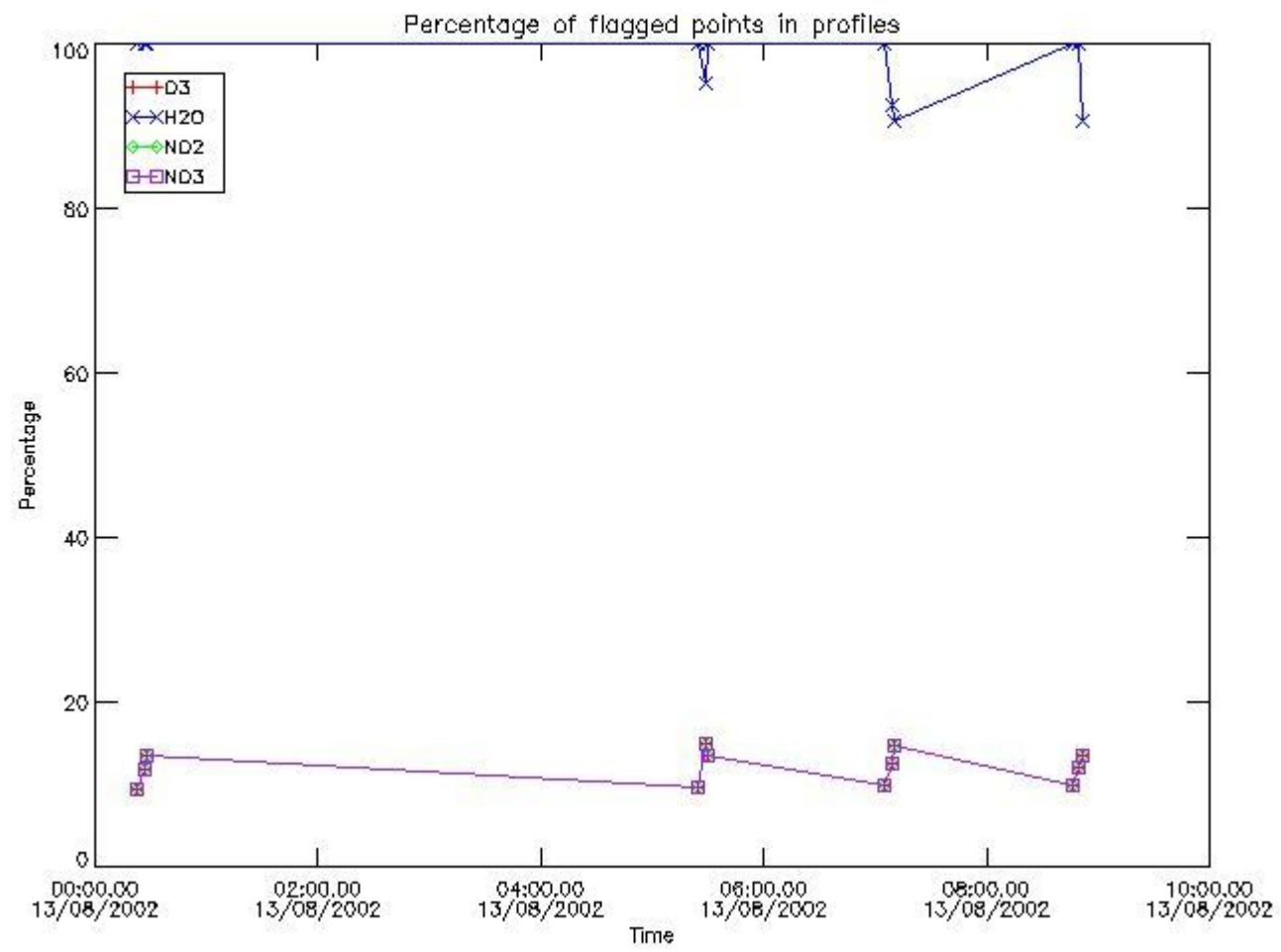
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20020813_002253_000000542008_00303_02361_8781.N1	13-AUG-2002 00:22:53	Dark	54.000	157	The1Eri	2.9060	9300.0	108	2361	No
2	GOM_NL__2PRFIN20020813_002630_000000432008_00303_02361_8782.N1	13-AUG-2002 00:26:30	Dark	43.000	143	Alp Hyi	2.8570	7200.0	86	2361	No
3	GOM_NL__2PRFIN20020813_002810_000000382008_00303_02361_8783.N1	13-AUG-2002 00:28:10	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	2361	No
4	GOM_NL__2PRFIN20020813_003300_000000612008_00303_02361_8784.N1	13-AUG-2002 00:33:00	Straylight	61.000	84	Alp Phe	2.3970	4500.0	122	2361	No
5	GOM_NL__2PRFIN20020813_003611_000000402008_00303_02361_8785.N1	13-AUG-2002 00:36:11	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	2361	No
6	GOM_NL__2PRFIN20020813_004051_000000632008_00303_02361_8786.N1	13-AUG-2002 00:40:51	Twilight	62.500	18	24Alp PsA	1.1660	9700.0	125	2361	No
7	GOM_NL__2PRFIN20020813_004335_000001832008_00303_02361_8787.N1	13-AUG-2002 00:43:35	Bright	183.000	52	16Bet Cet	2.0370	4500.0	366	2361	No
8	GOM_NL__2PRFIN20020813_005022_000000472008_00303_02361_8788.N1	13-AUG-2002 00:50:22	Bright	47.000	154	22Bet Aqr	2.8990	5700.0	94	2361	No
9	GOM_NL__2PRFIN20020813_005236_000000532008_00303_02361_8789.N1	13-AUG-2002 00:52:36	Bright	53.000	162	34Alp Aqr	2.9440	5350.0	106	2361	No
10	GOM_NL__2PRFIN20020813_005443_000000382008_00303_02361_8790.N1	13-AUG-2002 00:54:43	Bright	38.000	11	53Alp Aql	0.76500	8000.0	76	2361	No
11	GOM_NL__2PRFIN20020813_005629_000000362008_00303_02361_8791.N1	13-AUG-2002 00:56:29	Bright	36.000	168	17Zet Aql	2.9860	11000.	72	2361	No
12	GOM_NL__2PRFIN20020813_024415_000000402008_00304_02362_8781.N1	13-AUG-2002 02:44:15	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	2362	No
13	GOM_NL__2PRFIN20020813_024602_000000432008_00304_02362_8782.N1	13-AUG-2002 02:46:02	Bright	42.500	19	50Alp Cyg	1.2460	10500.	85	2362	No
14	GOM_NL__2PRFIN20020813_024901_000000372008_00304_02362_8783.N1	13-AUG-2002 02:49:01	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	2362	No
15	GOM_NL__2PRFIN20020813_025126_000000382008_00304_02362_8784.N1	13-AUG-2002 02:51:26	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	2362	No
16	GOM_NL__2PRFIN20020813_025640_000000502008_00304_02362_8785.N1	13-AUG-2002 02:56:40	Bright	50.000	74	11Bet Cas	2.2680	6600.0	100	2362	No
17	GOM_NL__2PRFIN20020813_025851_000000472008_00304_02362_8786.N1	13-AUG-2002 02:58:51	Bright	47.000	76	27Gam Cas	2.3000	30000.	94	2362	No
18	GOM_NL__2PRFIN20020813_030601_000000532008_00304_02362_8787.N1	13-AUG-2002 03:06:01	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	2362	No
19	GOM_NL__2PRFIN20020813_030800_000000922008_00304_02362_8788.N1	13-AUG-2002 03:08:00	Bright	91.500	73	57Gam1And	2.2600	13100.	183	2362	No
20	GOM_NL__2PRFIN20020813_031054_000000482008_00304_02362_8789.N1	13-AUG-2002 03:10:54	Bright	48.000	6	13Alp Aur	0.080000	3400.0	96	2362	No
21	GOM_NL__2PRFIN20020813_031240_000000562008_00304_02362_8790.N1	13-AUG-2002 03:12:40	Bright	56.000	149	45Eps Per	2.8880	30000.	112	2362	No
22	GOM_NL__2PRFIN20020813_031642_000000492008_00304_02362_8791.N1	13-AUG-2002 03:16:42	Twilight	48.500	28	12Bet Tau	1.6500	15200.	97	2362	No
23	GOM_NL__2PRFIN20020813_052447_000000532008_00306_02364_8782.N1	13-AUG-2002 05:24:47	Dark	52.500	157	The1Eri	2.9060	9300.0	105	2364	No
24	GOM_NL__2PRFIN20020813_052820_000000412008_00306_02364_8783.N1	13-AUG-2002 05:28:20	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	2364	No
25	GOM_NL__2PRFIN20020813_052959_000000382008_00306_02364_8784.N1	13-AUG-2002 05:29:59	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	2364	No
26	GOM_NL__2PRFIN20020813_070525_000000512008_00307_02365_8782.N1	13-AUG-2002 07:05:25	Dark	51.000	157	The1Eri	2.9060	9300.0	102	2365	No
27	GOM_NL__2PRFIN20020813_070857_000000412008_00307_02365_8783.N1	13-AUG-2002 07:08:57	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	2365	No
28	GOM_NL__2PRFIN20020813_071035_000000382008_00307_02365_8784.N1	13-AUG-2002 07:10:35	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	2365	No
29	GOM_NL__2PRFIN20020813_071528_000000632008_00307_02365_8785.N1	13-AUG-2002 07:15:28	Straylight	63.000	84	Alp Phe	2.3970	4500.0	126	2365	No
30	GOM_NL__2PRFIN20020813_071836_000000412008_00307_02365_8786.N1	13-AUG-2002 07:18:36	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	2365	No
31	GOM_NL__2PRFIN20020813_072318_000000582008_00307_02365_8787.N1	13-AUG-2002 07:23:18	Twilight	58.000	18	24Alp PsA	1.1660	9700.0	116	2365	No
32	GOM_NL__2PRFIN20020813_072601_000001792008_00307_02365_8788.N1	13-AUG-2002 07:26:01	Bright	178.500	52	16Bet Cet	2.0370	4500.0	357	2365	No
33	GOM_NL__2PRFIN20020813_073246_000000462008_00307_02365_8789.N1	13-AUG-2002 07:32:46	Bright	46.000	154	22Bet Aqr	2.8990	5700.0	92	2365	No
34	GOM_NL__2PRFIN20020813_073458_000000542008_00307_02365_8790.N1	13-AUG-2002 07:34:58	Bright	54.000	162	34Alp Aqr	2.9440	5350.0	108	2365	No
35	GOM_NL__2PRFIN20020813_073707_000000392008_00307_02365_8791.N1	13-AUG-2002 07:37:07	Bright	39.000	11	53Alp Aql	0.76500	8000.0	78	2365	No
36	GOM_NL__2PRFIN20020813_073854_000000362008_00307_02365_8792.N1	13-AUG-2002 07:38:54	Bright	36.000	168	17Zet Aql	2.9860	11000.	72	2365	No
37	GOM_NL__2PRFIN20020813_084602_000000522008_00308_02366_8782.N1	13-AUG-2002 08:46:02	Dark	51.500	157	The1Eri	2.9060	9300.0	103	2366	No
38	GOM_NL__2PRFIN20020813_084933_000000422008_00308_02366_8783.N1	13-AUG-2002 08:49:33	Dark	42.000	143	Alp Hyi	2.8570	7200.0	84	2366	No
39	GOM_NL__2PRFIN20020813_085111_000000382008_00308_02366_8784.N1	13-AUG-2002 08:51:11	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	2366	No
40	GOM_NL__2PRFIN20020813_085605_000000592008_00308_02366_8785.N1	13-AUG-2002 08:56:05	Straylight	58.500	84	Alp Phe	2.3970	4500.0	117	2366	No
41	GOM_NL__2PRFIN20020813_085911_000000422008_00308_02366_8786.N1	13-AUG-2002 08:59:11	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	2366	No
42	GOM_NL__2PRFIN20020813_090354_000000582008_00308_02366_8787.N1	13-AUG-2002 09:03:54	Twilight	57.500	18	24Alp PsA	1.1660	9700.0	115	2366	No

3. Quality information per product

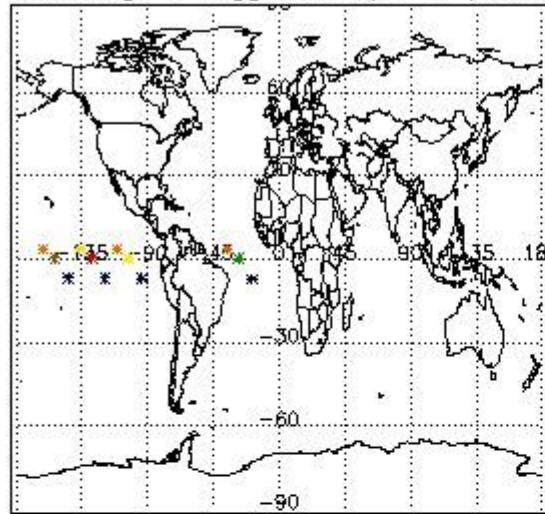
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

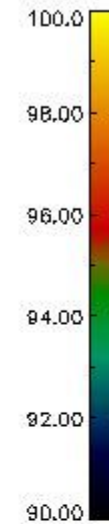
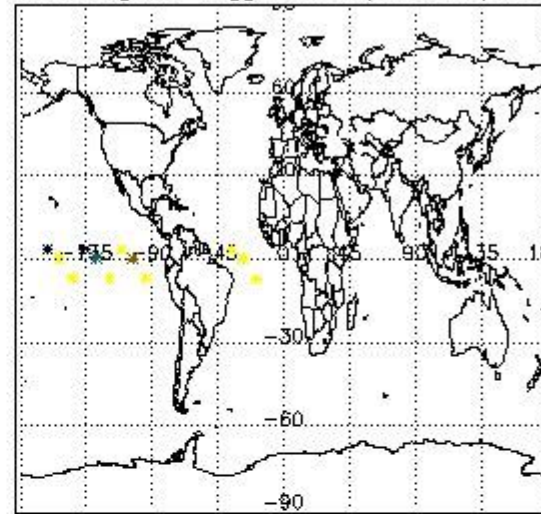


3.2 Plot quality information per product (world map)

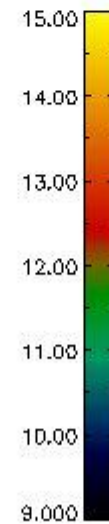
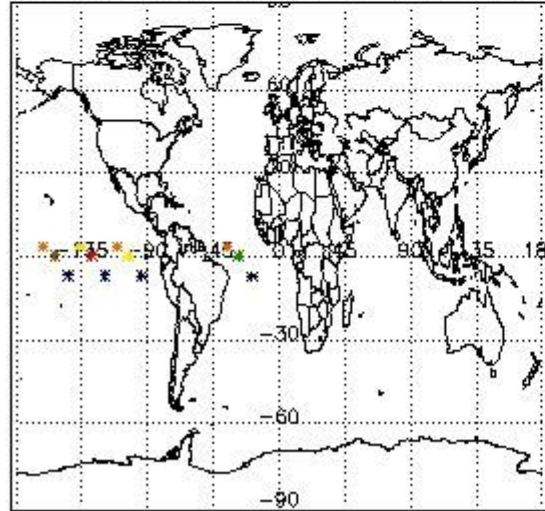
Percentage of flagged data per O3 profile



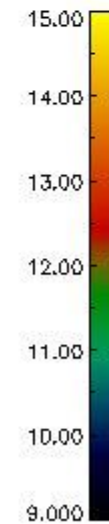
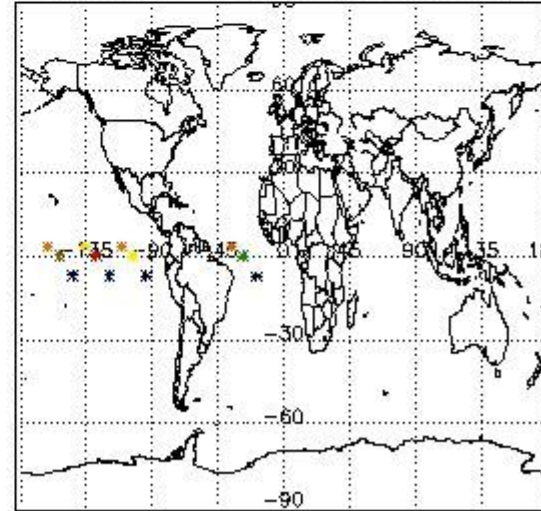
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

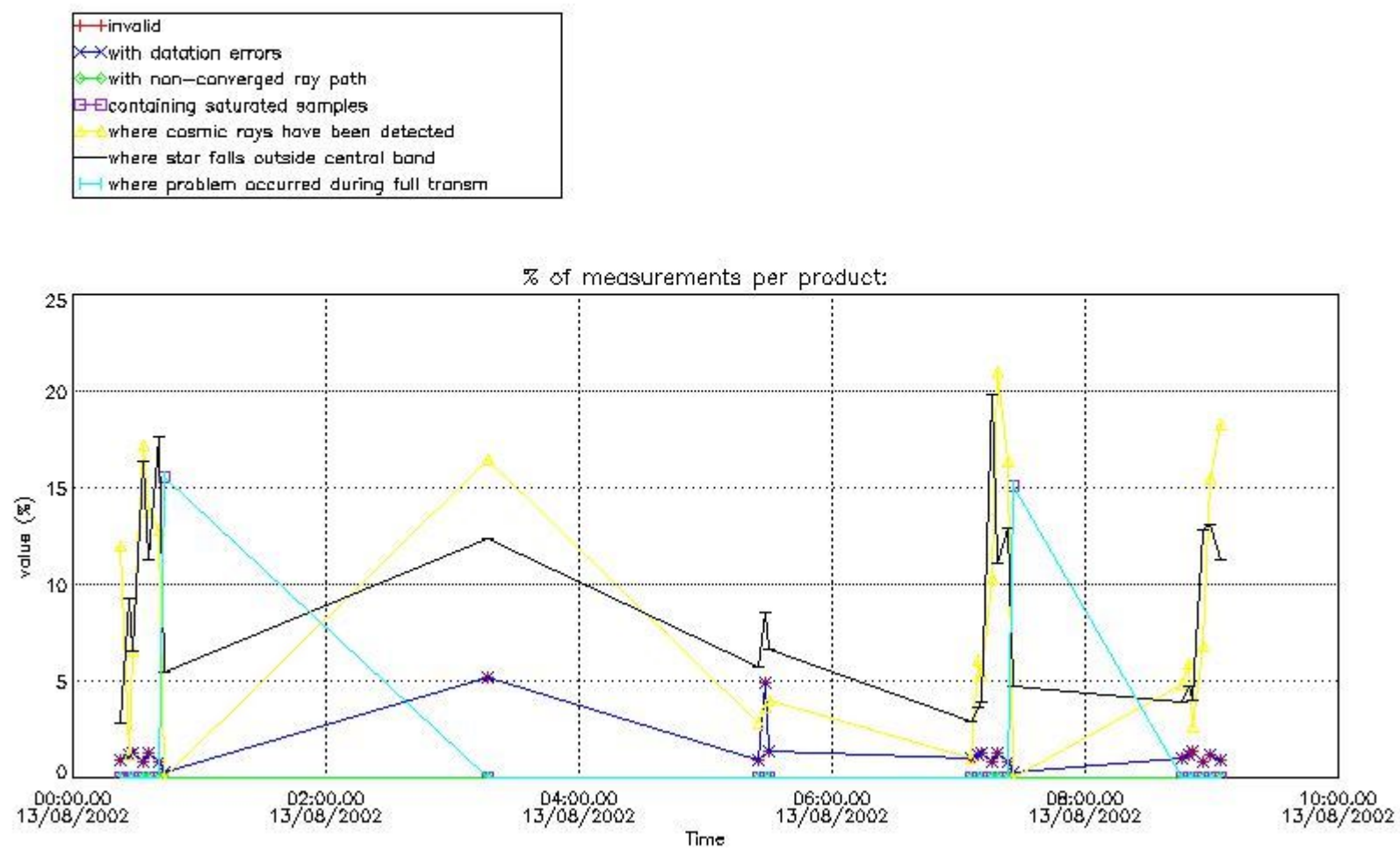


4. Level 1 quality information per product

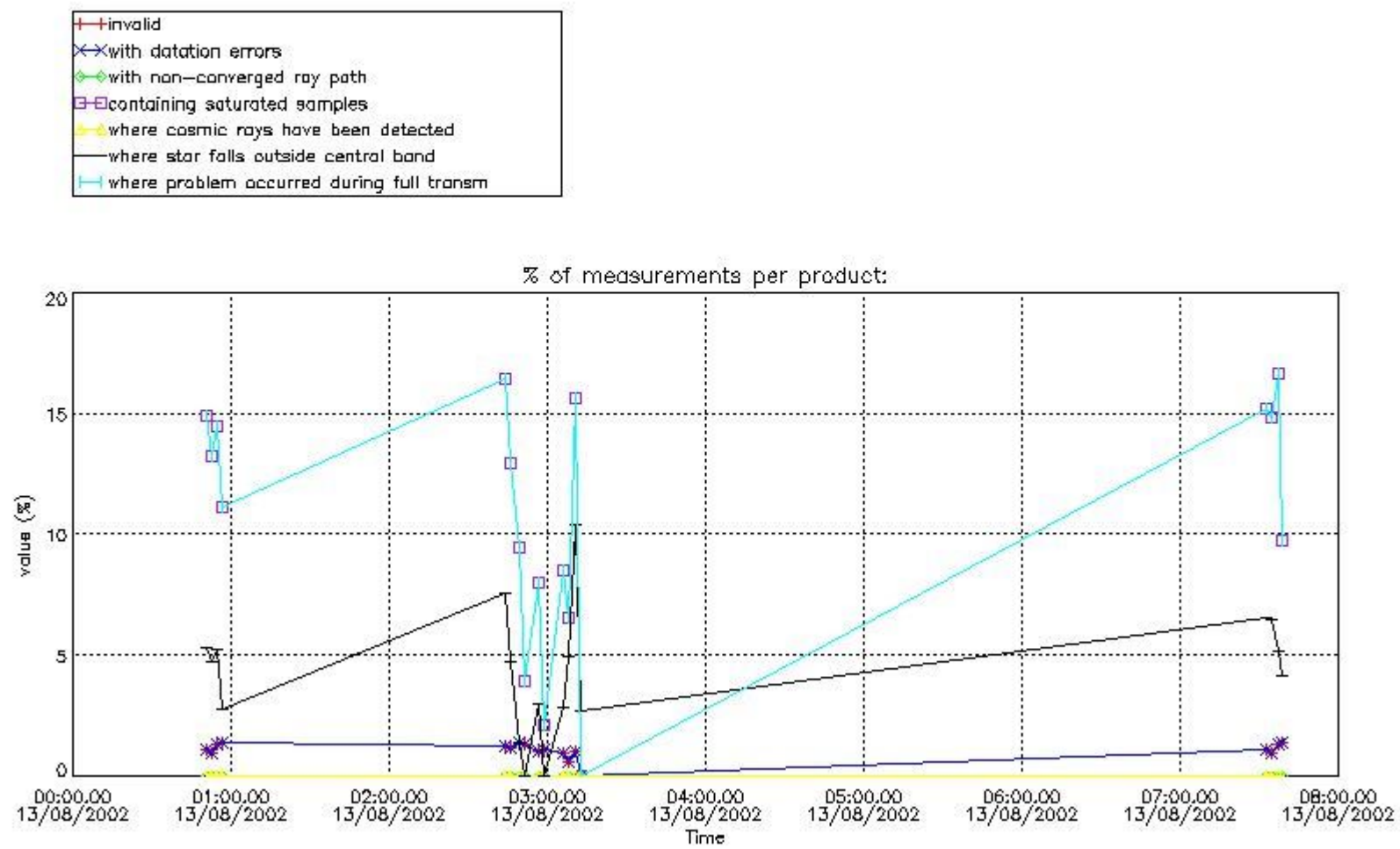
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



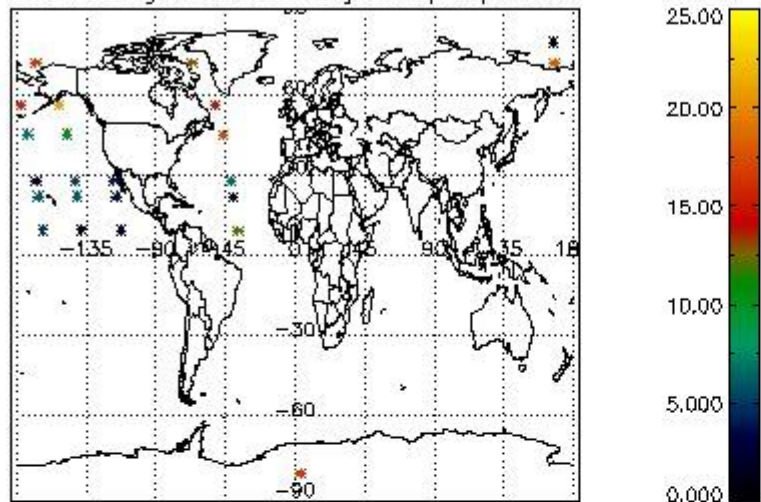
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



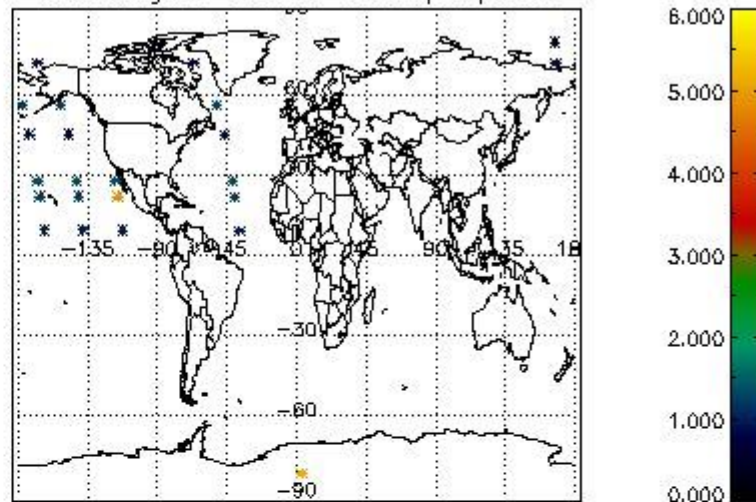
4.2 Plot quality information per product coming from level 1b processing (world map)

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

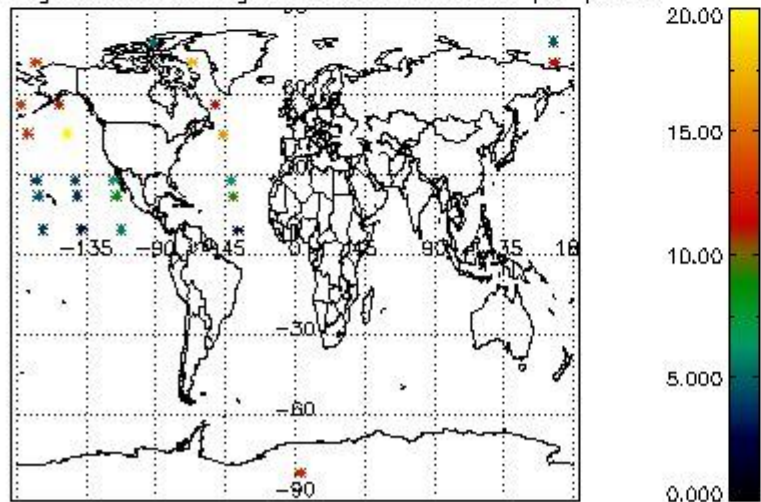
Percentage of cosmic ray hits per profile



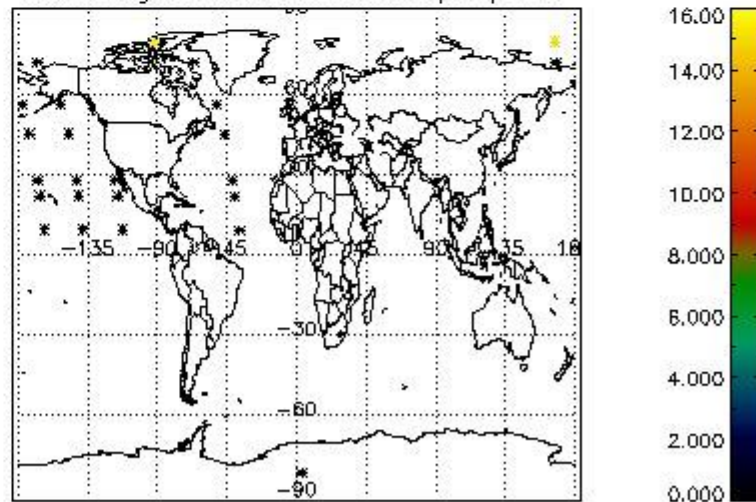
Percentage of datation errors per profile



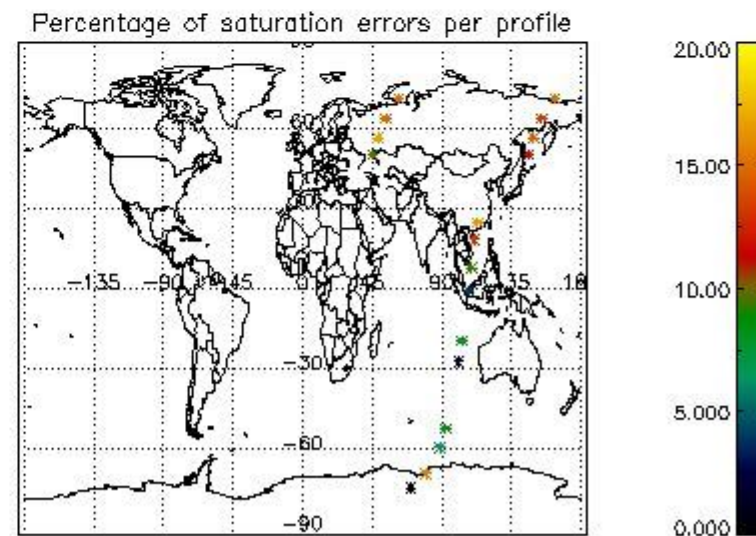
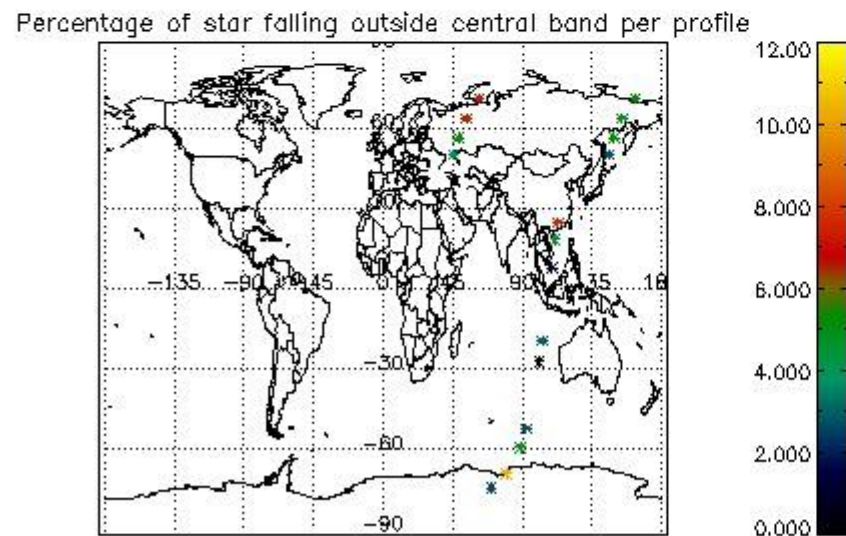
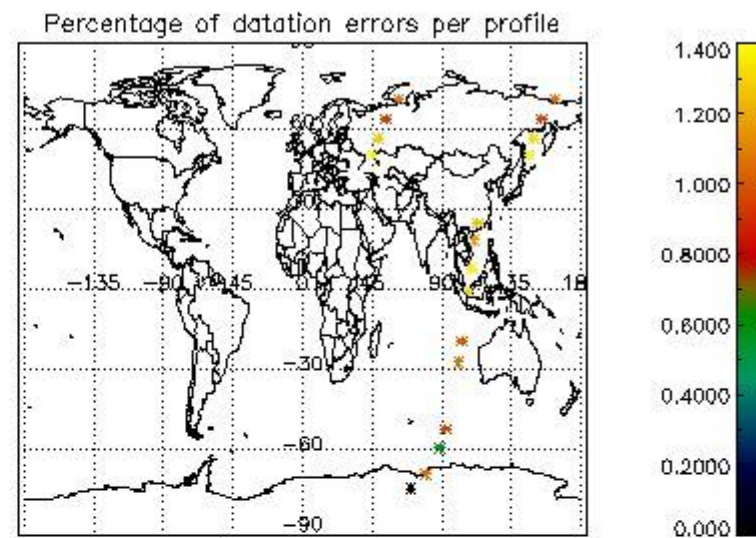
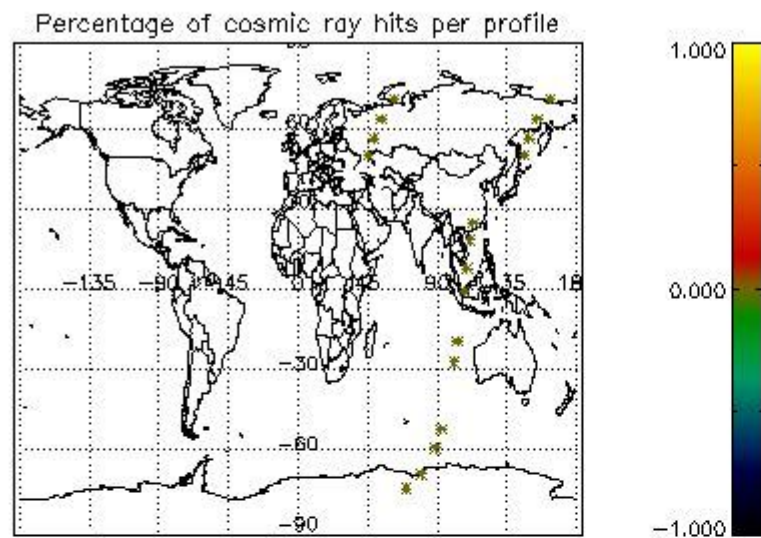
Percentage of star falling outside central band per profile



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

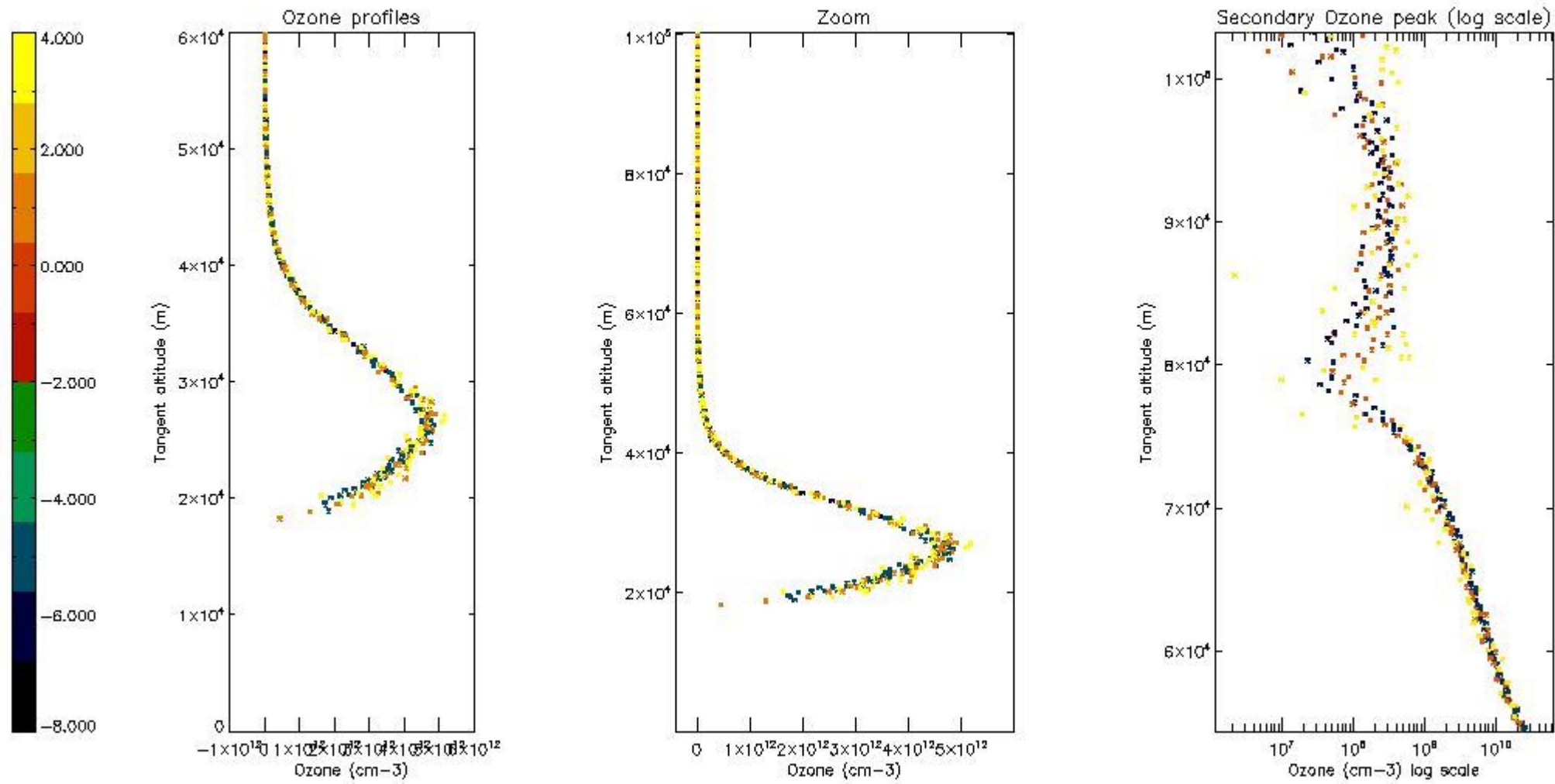
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

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

STD < 10	11
STD < 5	6

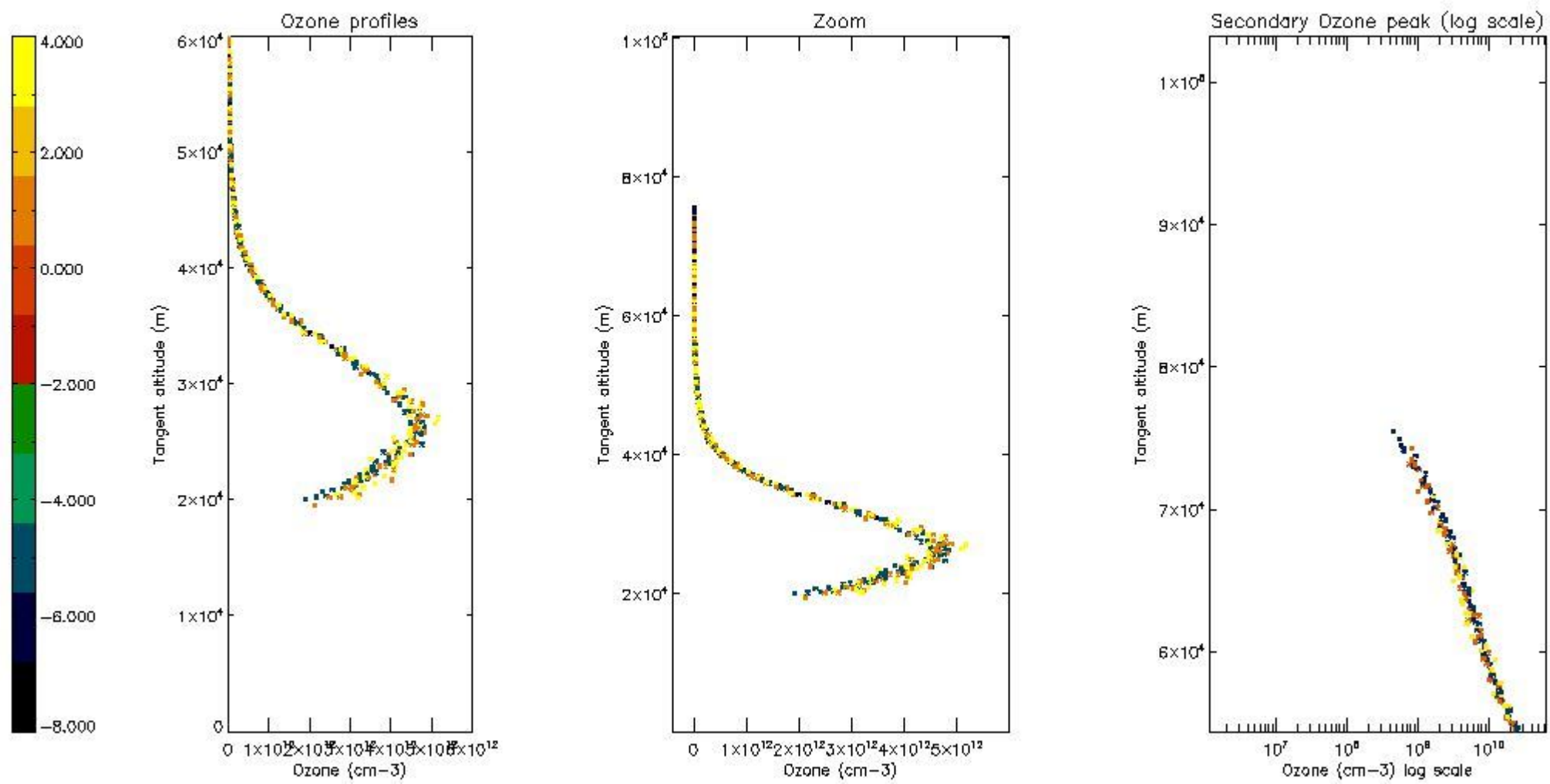
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



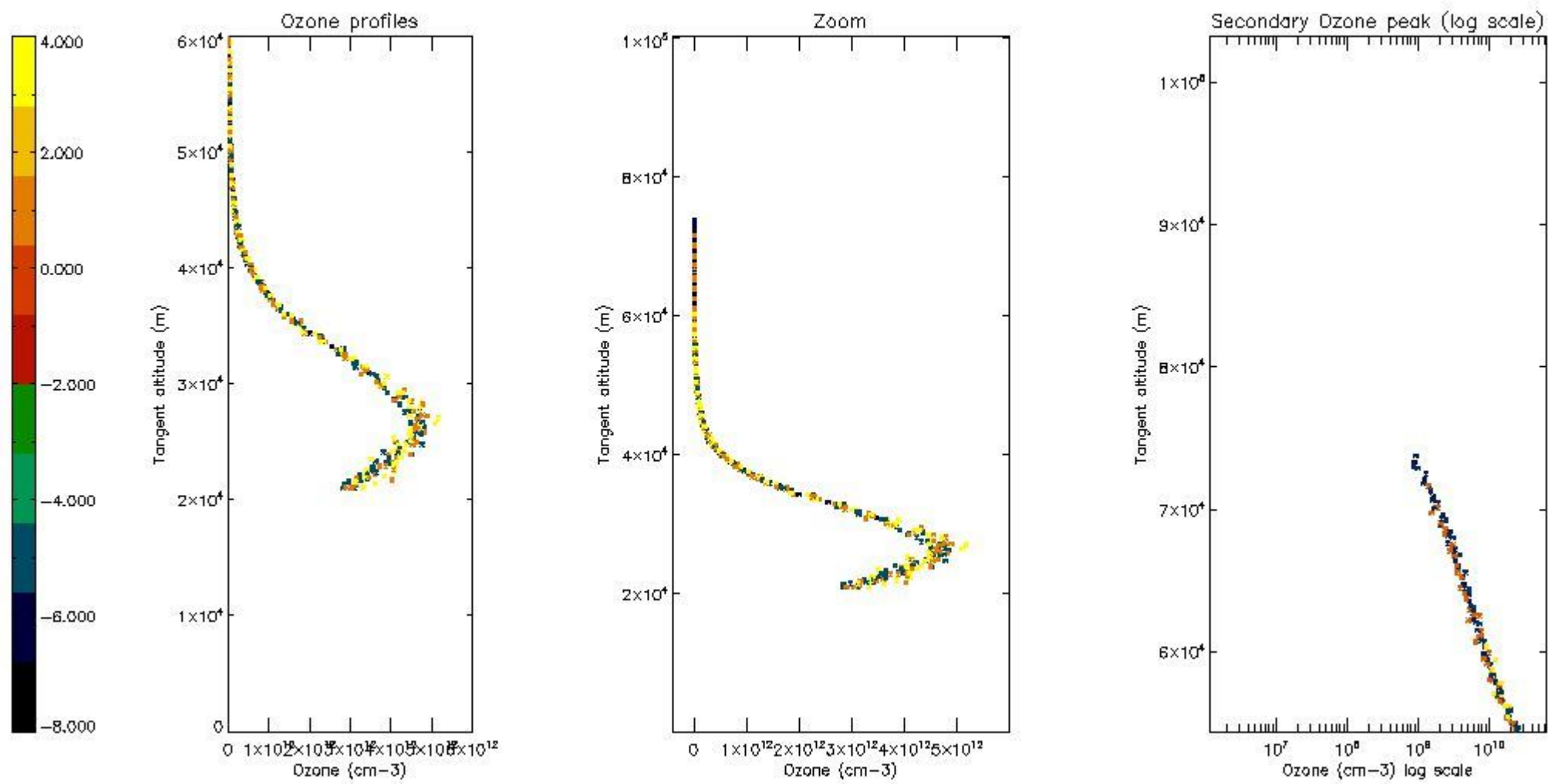
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



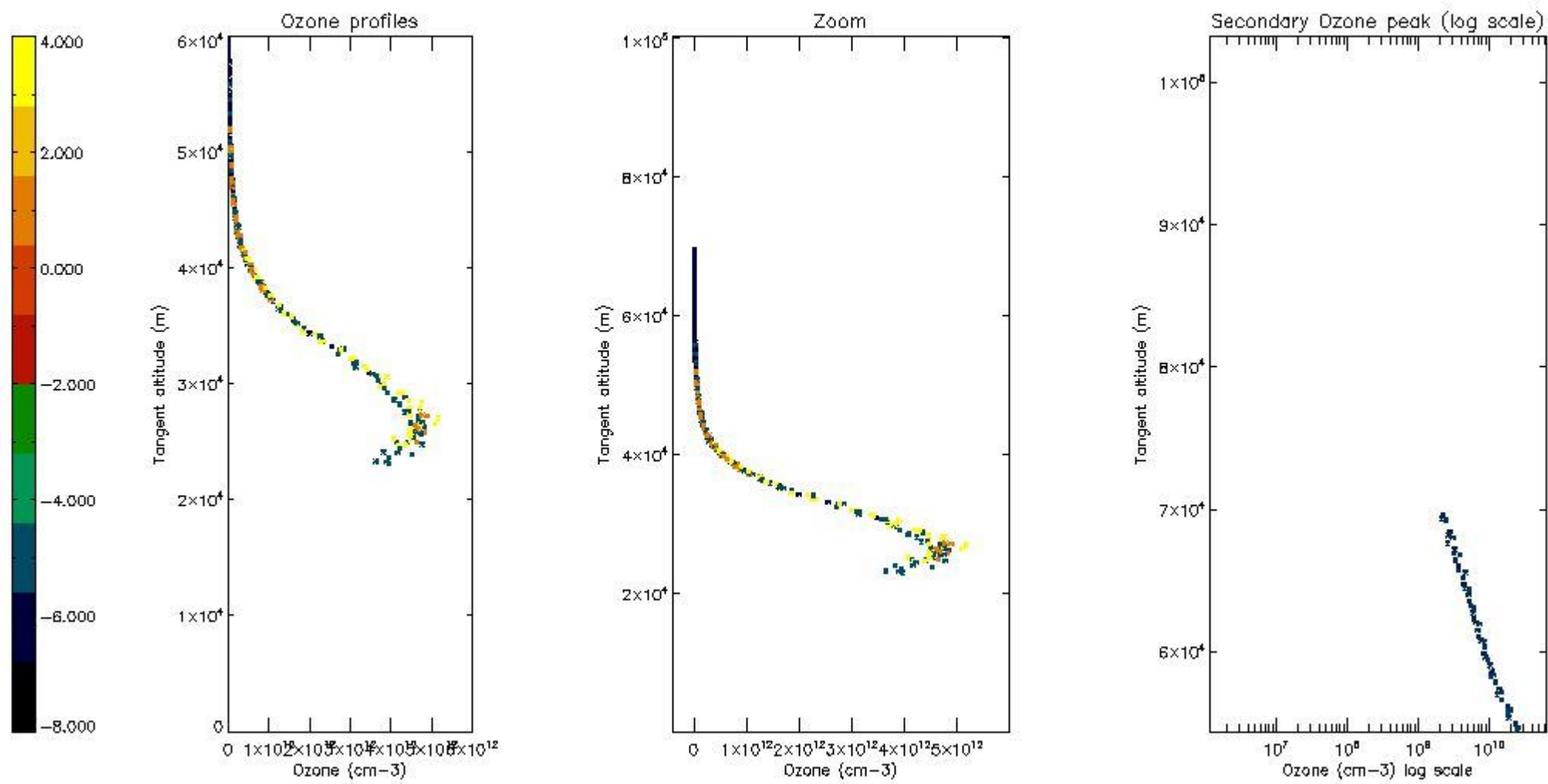
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



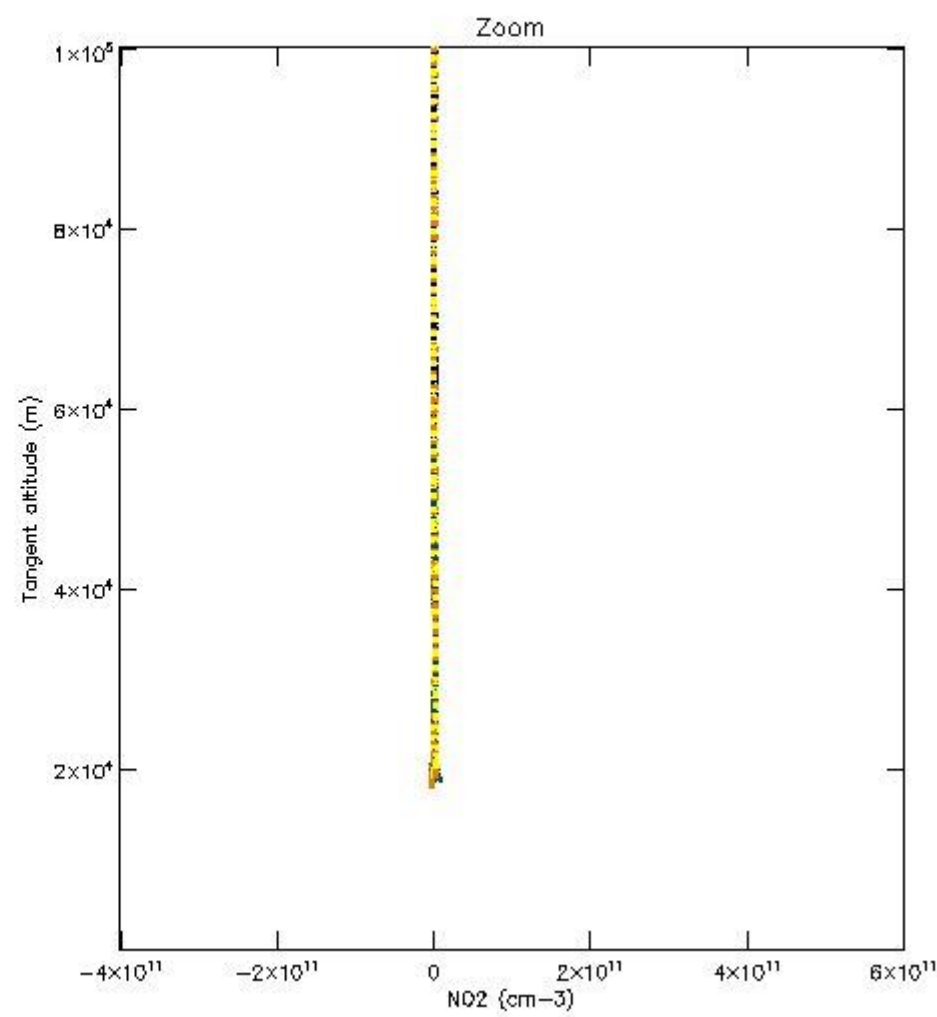
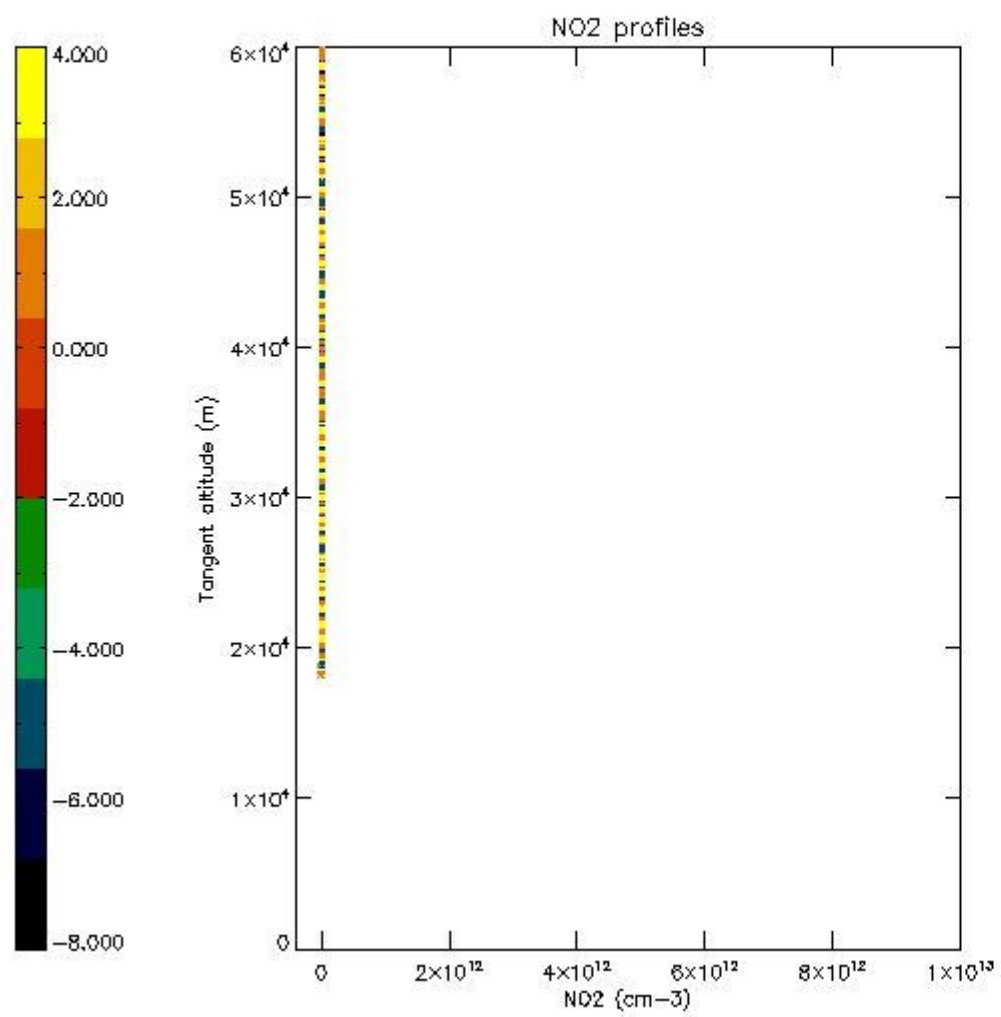
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



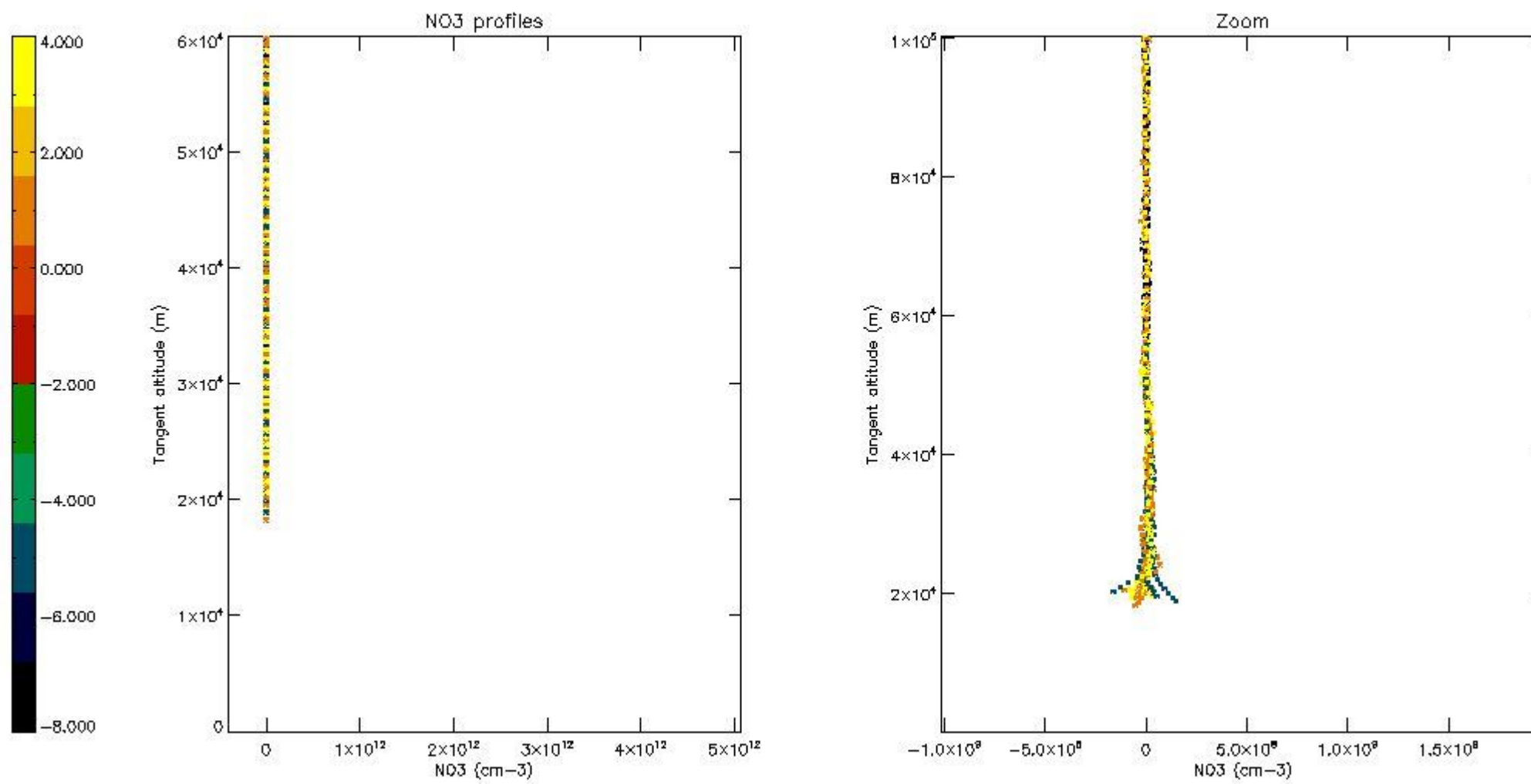
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	13-AUG-2002 00:22:53
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	13-AUG-2002 00:22:53
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	13-AUG-2002 00:22:53

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

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[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](#)

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Nb of prods with errors	0

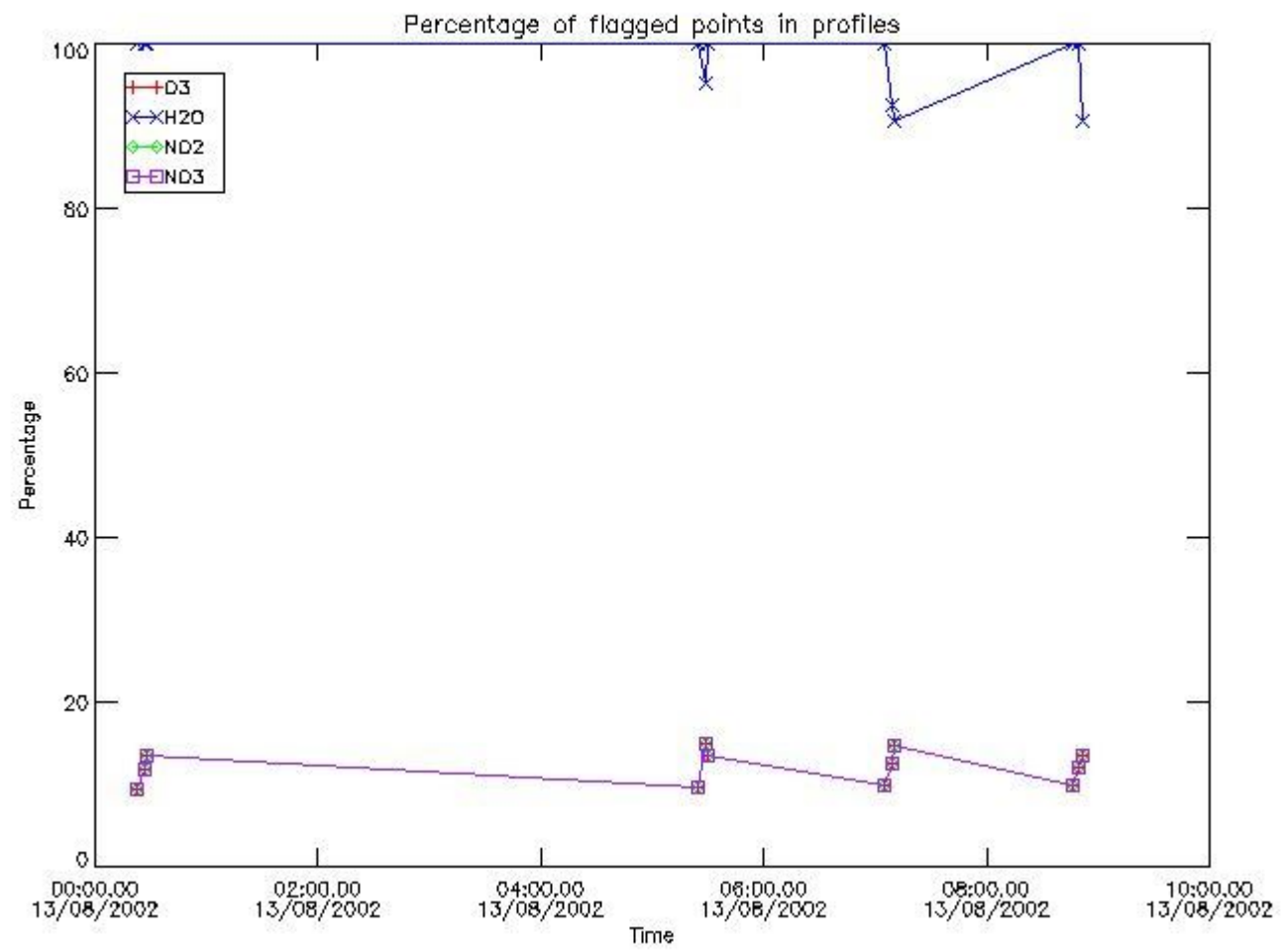
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Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20020813_002253_000000542008_00303_02361_8781.N1	13-AUG-2002 00:22:53	Dark	54.000	157	The1Eri	2.9060	9300.0	108	2361	No
2	GOM_NL__2PRFIN20020813_002630_000000432008_00303_02361_8782.N1	13-AUG-2002 00:26:30	Dark	43.000	143	Alp Hyi	2.8570	7200.0	86	2361	No
3	GOM_NL__2PRFIN20020813_002810_000000382008_00303_02361_8783.N1	13-AUG-2002 00:28:10	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	2361	No
4	GOM_NL__2PRFIN20020813_003300_000000612008_00303_02361_8784.N1	13-AUG-2002 00:33:00	Straylight	61.000	84	Alp Phe	2.3970	4500.0	122	2361	No
5	GOM_NL__2PRFIN20020813_003611_000000402008_00303_02361_8785.N1	13-AUG-2002 00:36:11	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	2361	No
6	GOM_NL__2PRFIN20020813_004051_000000632008_00303_02361_8786.N1	13-AUG-2002 00:40:51	Twilight	62.500	18	24Alp PsA	1.1660	9700.0	125	2361	No
7	GOM_NL__2PRFIN20020813_004335_000001832008_00303_02361_8787.N1	13-AUG-2002 00:43:35	Bright	183.00	52	16Bet Cet	2.0370	4500.0	366	2361	No
8	GOM_NL__2PRFIN20020813_005022_000000472008_00303_02361_8788.N1	13-AUG-2002 00:50:22	Bright	47.000	154	22Bet Aqr	2.8990	5700.0	94	2361	No
9	GOM_NL__2PRFIN20020813_005236_000000532008_00303_02361_8789.N1	13-AUG-2002 00:52:36	Bright	53.000	162	34Alp Aqr	2.9440	5350.0	106	2361	No
10	GOM_NL__2PRFIN20020813_005443_000000382008_00303_02361_8790.N1	13-AUG-2002 00:54:43	Bright	38.000	11	53Alp Aql	0.76500	8000.0	76	2361	No
11	GOM_NL__2PRFIN20020813_005629_000000362008_00303_02361_8791.N1	13-AUG-2002 00:56:29	Bright	36.000	168	17Zet Aql	2.9860	11000.	72	2361	No
12	GOM_NL__2PRFIN20020813_024415_000000402008_00304_02362_8781.N1	13-AUG-2002 02:44:15	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	2362	No
13	GOM_NL__2PRFIN20020813_024602_000000432008_00304_02362_8782.N1	13-AUG-2002 02:46:02	Bright	42.500	19	50Alp Cyg	1.2460	10500.	85	2362	No
14	GOM_NL__2PRFIN20020813_024901_000000372008_00304_02362_8783.N1	13-AUG-2002 02:49:01	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	2362	No
15	GOM_NL__2PRFIN20020813_025126_000000382008_00304_02362_8784.N1	13-AUG-2002 02:51:26	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	2362	No
16	GOM_NL__2PRFIN20020813_025640_000000502008_00304_02362_8785.N1	13-AUG-2002 02:56:40	Bright	50.000	74	11Bet Cas	2.2680	6600.0	100	2362	No
17	GOM_NL__2PRFIN20020813_025851_000000472008_00304_02362_8786.N1	13-AUG-2002 02:58:51	Bright	47.000	76	27Gam Cas	2.3000	30000.	94	2362	No
18	GOM_NL__2PRFIN20020813_030601_000000532008_00304_02362_8787.N1	13-AUG-2002 03:06:01	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	2362	No
19	GOM_NL__2PRFIN20020813_030800_000000922008_00304_02362_8788.N1	13-AUG-2002 03:08:00	Bright	91.500	73	57Gam1And	2.2600	13100.	183	2362	No
20	GOM_NL__2PRFIN20020813_031054_000000482008_00304_02362_8789.N1	13-AUG-2002 03:10:54	Bright	48.000	6	13Alp Aur	0.080000	3400.0	96	2362	No
21	GOM_NL__2PRFIN20020813_031240_000000562008_00304_02362_8790.N1	13-AUG-2002 03:12:40	Bright	56.000	149	45Eps Per	2.8880	30000.	112	2362	No
22	GOM_NL__2PRFIN20020813_031642_000000492008_00304_02362_8791.N1	13-AUG-2002 03:16:42	Twilight	48.500	28	12Bet Tau	1.6500	15200.	97	2362	No
23	GOM_NL__2PRFIN20020813_052447_000000532008_00306_02364_8782.N1	13-AUG-2002 05:24:47	Dark	52.500	157	The1Eri	2.9060	9300.0	105	2364	No
24	GOM_NL__2PRFIN20020813_052820_000000412008_00306_02364_8783.N1	13-AUG-2002 05:28:20	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	2364	No
25	GOM_NL__2PRFIN20020813_052959_000000382008_00306_02364_8784.N1	13-AUG-2002 05:29:59	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	2364	No
26	GOM_NL__2PRFIN20020813_070525_000000512008_00307_02365_8782.N1	13-AUG-2002 07:05:25	Dark	51.000	157	The1Eri	2.9060	9300.0	102	2365	No
27	GOM_NL__2PRFIN20020813_070857_000000412008_00307_02365_8783.N1	13-AUG-2002 07:08:57	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	2365	No
28	GOM_NL__2PRFIN20020813_071035_000000382008_00307_02365_8784.N1	13-AUG-2002 07:10:35	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	2365	No
29	GOM_NL__2PRFIN20020813_071528_000000632008_00307_02365_8785.N1	13-AUG-2002 07:15:28	Straylight	63.000	84	Alp Phe	2.3970	4500.0	126	2365	No
30	GOM_NL__2PRFIN20020813_071836_000000412008_00307_02365_8786.N1	13-AUG-2002 07:18:36	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	2365	No
31	GOM_NL__2PRFIN20020813_072318_000000582008_00307_02365_8787.N1	13-AUG-2002 07:23:18	Twilight	58.000	18	24Alp PsA	1.1660	9700.0	116	2365	No
32	GOM_NL__2PRFIN20020813_072601_000001792008_00307_02365_8788.N1	13-AUG-2002 07:26:01	Bright	178.50	52	16Bet Cet	2.0370	4500.0	357	2365	No
33	GOM_NL__2PRFIN20020813_073246_000000462008_00307_02365_8789.N1	13-AUG-2002 07:32:46	Bright	46.000	154	22Bet Aqr	2.8990	5700.0	92	2365	No
34	GOM_NL__2PRFIN20020813_073458_000000542008_00307_02365_8790.N1	13-AUG-2002 07:34:58	Bright	54.000	162	34Alp Aqr	2.9440	5350.0	108	2365	No
35	GOM_NL__2PRFIN20020813_073707_000000392008_00307_02365_8791.N1	13-AUG-2002 07:37:07	Bright	39.000	11	53Alp Aql	0.76500	8000.0	78	2365	No
36	GOM_NL__2PRFIN20020813_073854_000000362008_00307_02365_8792.N1	13-AUG-2002 07:38:54	Bright	36.000	168	17Zet Aql	2.9860	11000.	72	2365	No
37	GOM_NL__2PRFIN20020813_084602_000000522008_00308_02366_8782.N1	13-AUG-2002 08:46:02	Dark	51.500	157	The1Eri	2.9060	9300.0	103	2366	No
38	GOM_NL__2PRFIN20020813_084933_000000422008_00308_02366_8783.N1	13-AUG-2002 08:49:33	Dark	42.000	143	Alp Hyi	2.8570	7200.0	84	2366	No
39	GOM_NL__2PRFIN20020813_085111_000000382008_00308_02366_8784.N1	13-AUG-2002 08:51:11	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	2366	No
40	GOM_NL__2PRFIN20020813_085605_000000592008_00308_02366_8785.N1	13-AUG-2002 08:56:05	Straylight	58.500	84	Alp Phe	2.3970	4500.0	117	2366	No
41	GOM_NL__2PRFIN20020813_085911_000000422008_00308_02366_8786.N1	13-AUG-2002 08:59:11	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	2366	No
42	GOM_NL__2PRFIN20020813_090354_000000582008_00308_02366_8787.N1	13-AUG-2002 09:03:54	Twilight	57.500	18	24Alp PsA	1.1660	9700.0	115	2366	No

3. Quality information per product

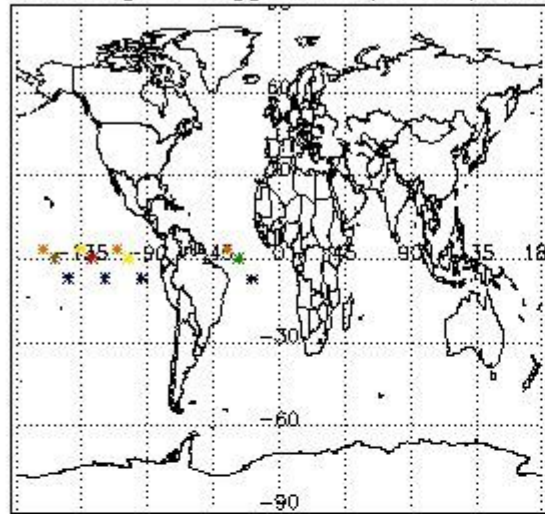
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

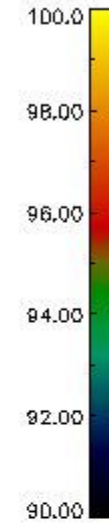
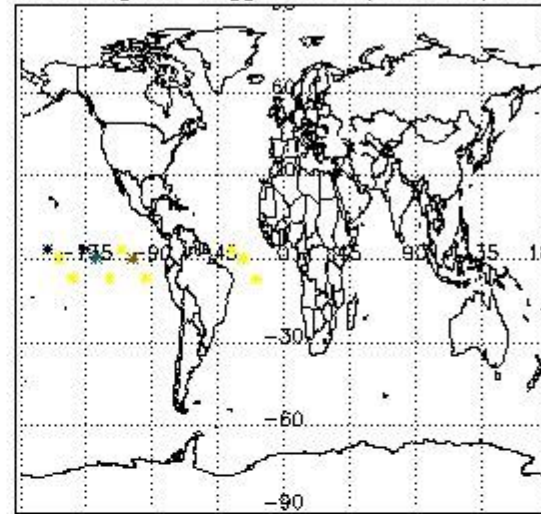


3.2 Plot quality information per product (world map)

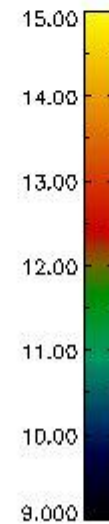
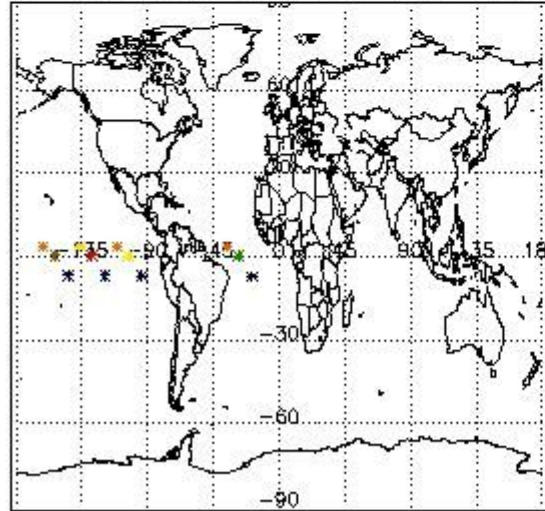
Percentage of flagged data per O3 profile



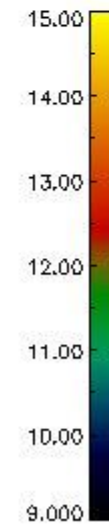
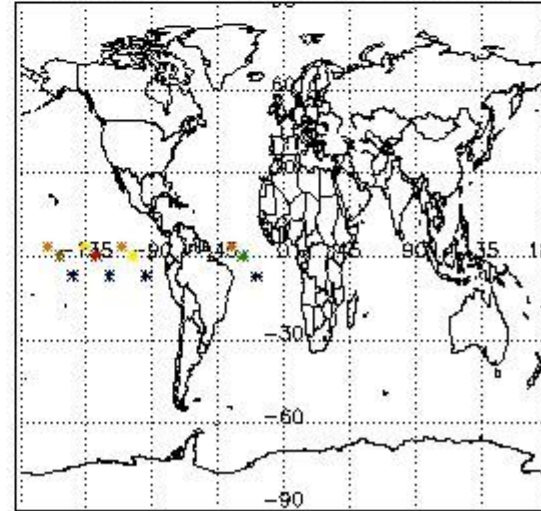
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

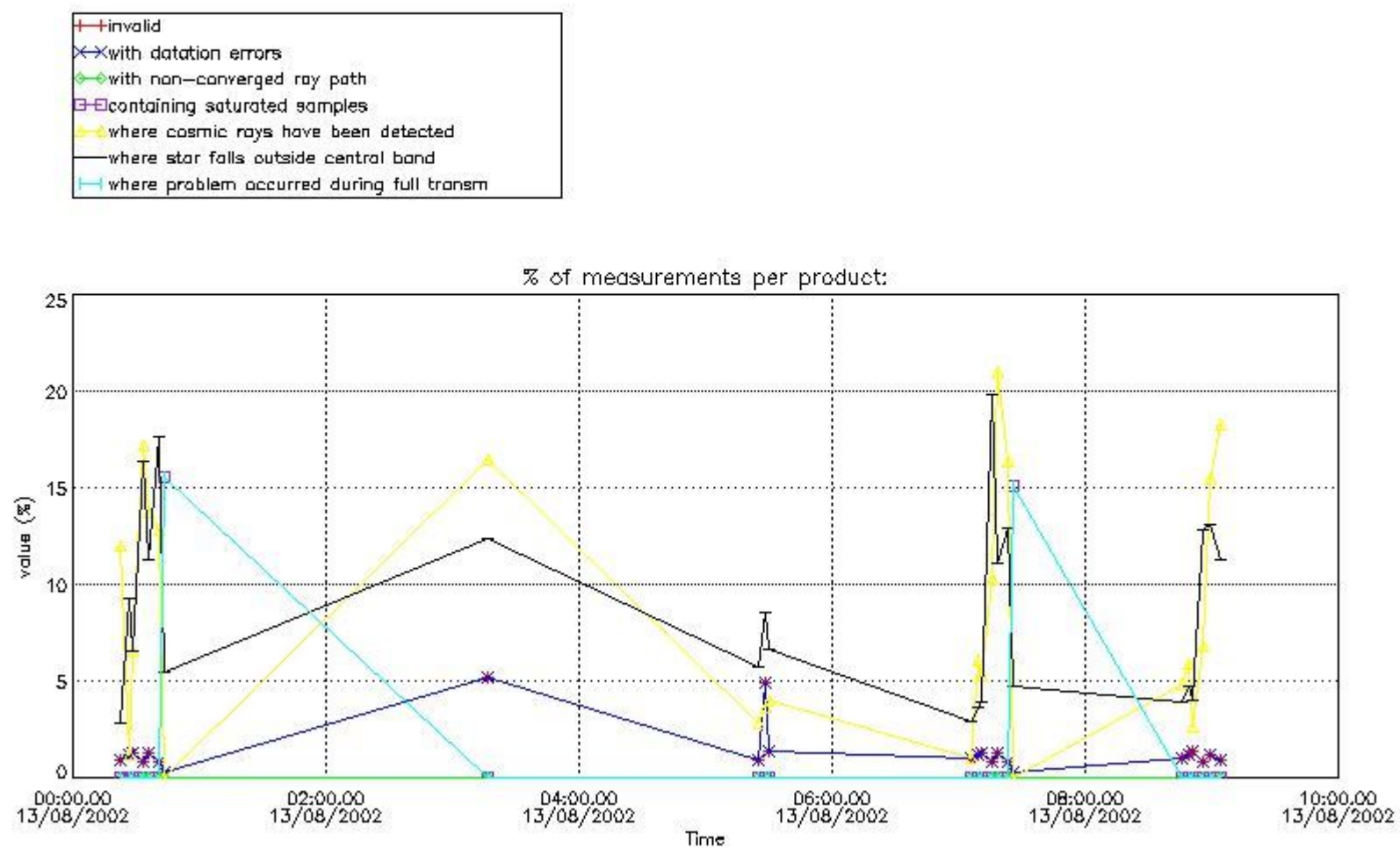


4. Level 1 quality information per product

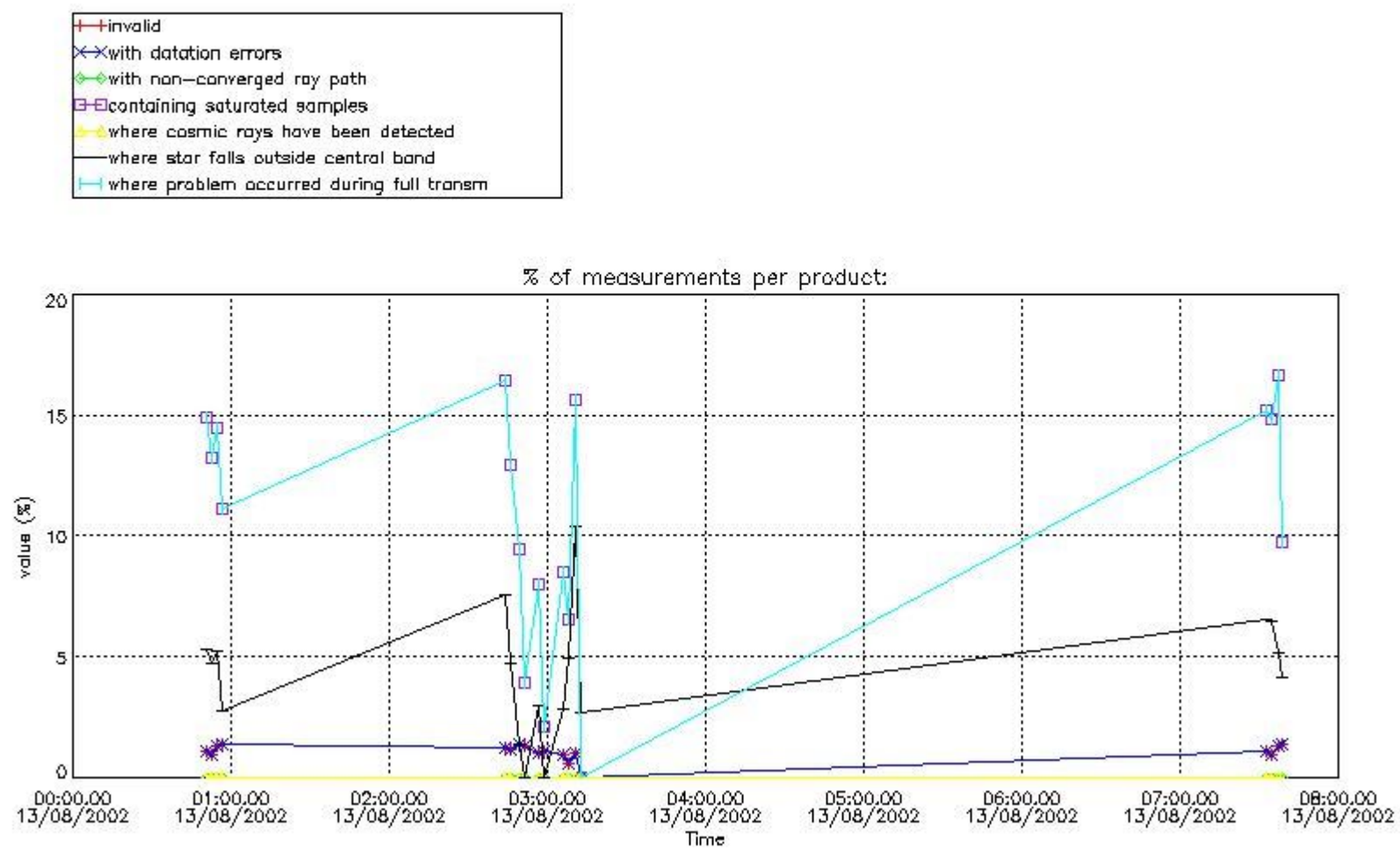
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

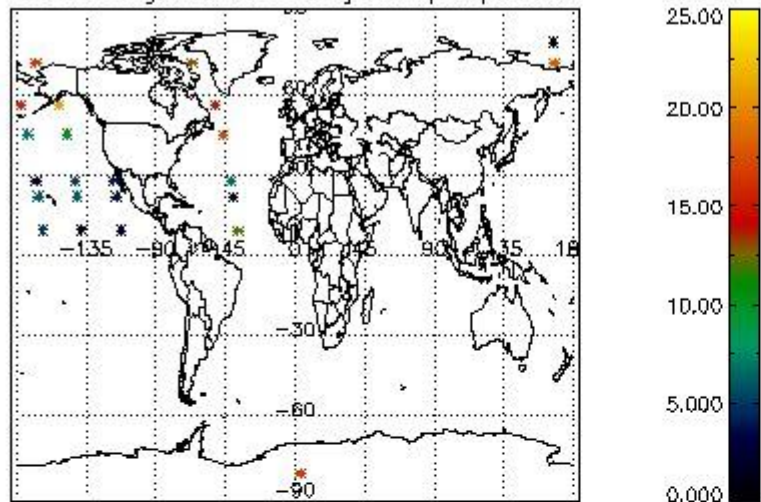


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

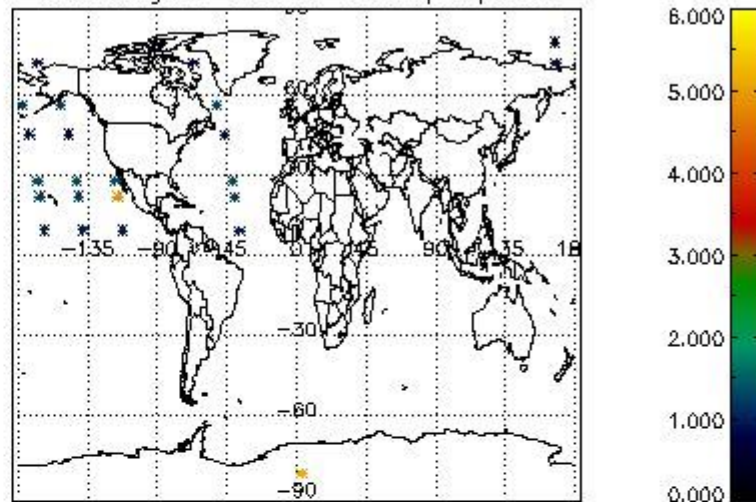


4.2 Plot quality information per product coming from level 1b processing (world map)
 4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes

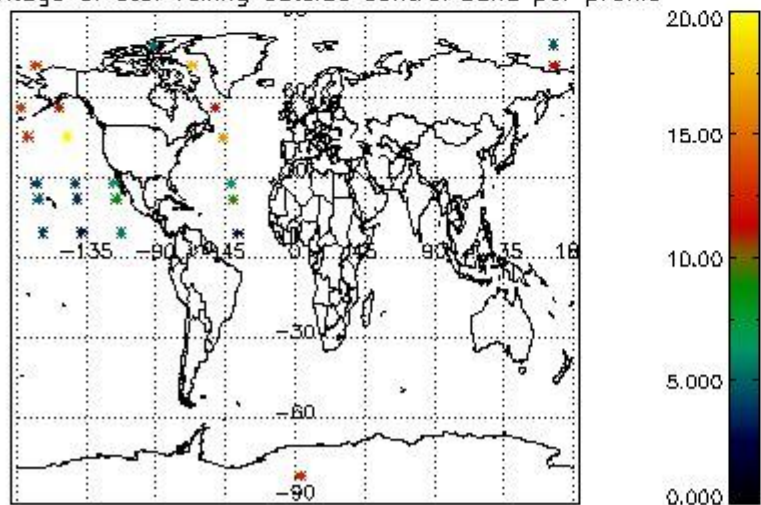
Percentage of cosmic ray hits per profile



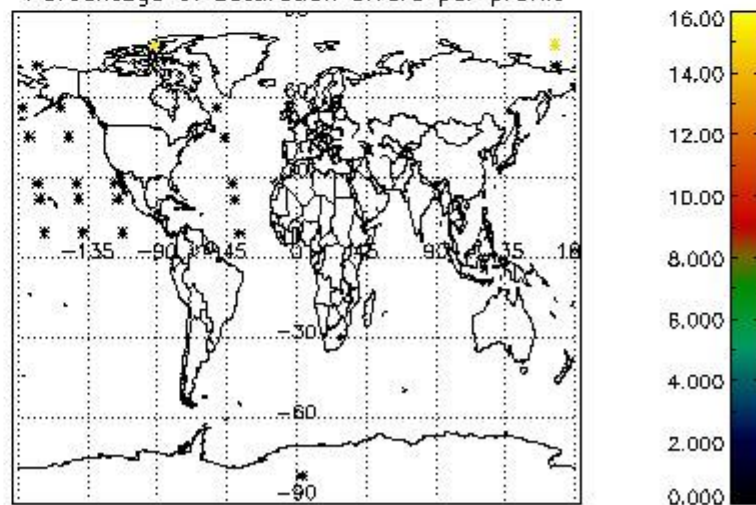
Percentage of datation errors per profile



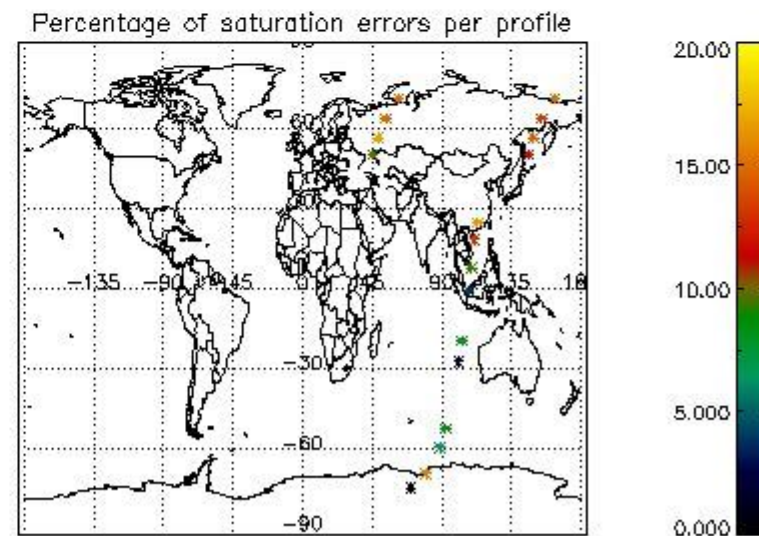
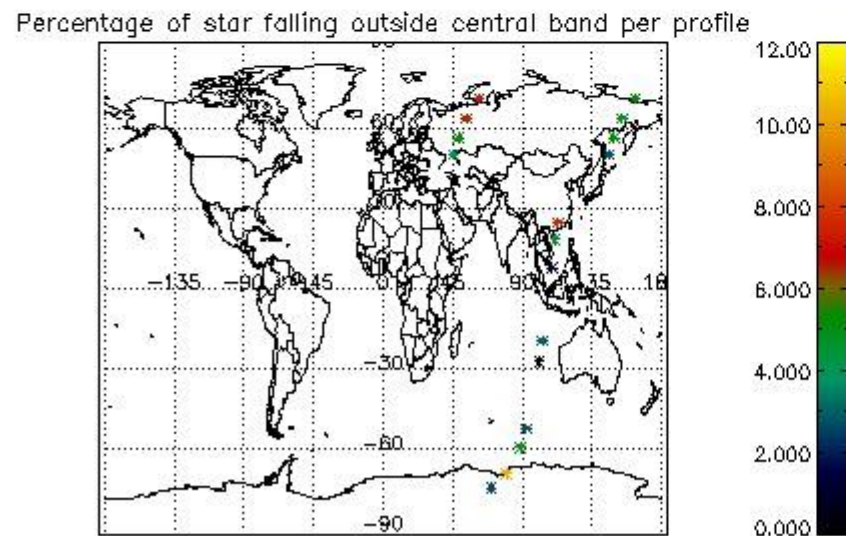
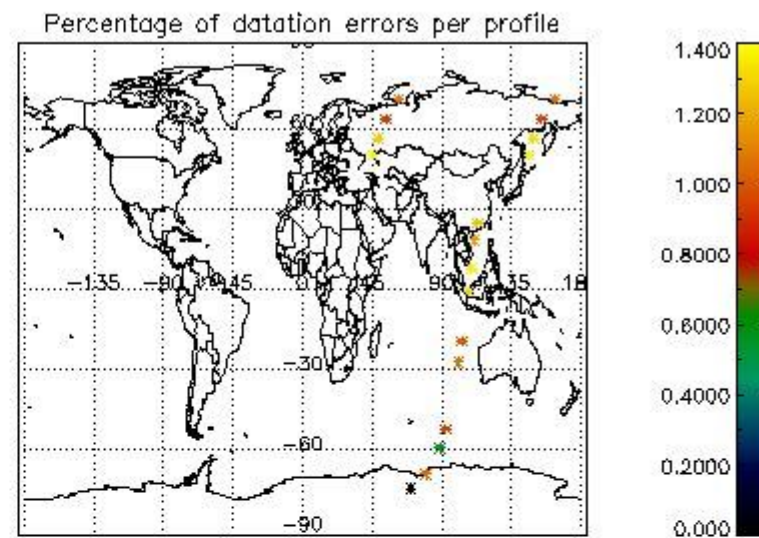
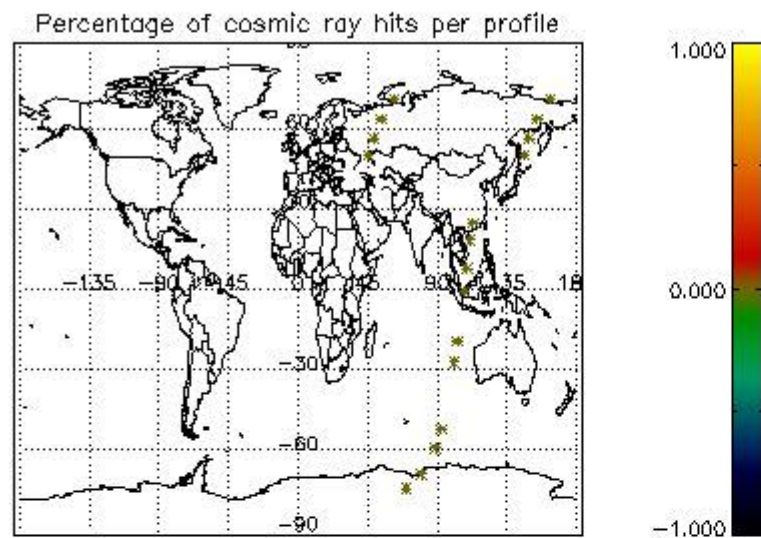
Percentage of star falling outside central band per profile



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

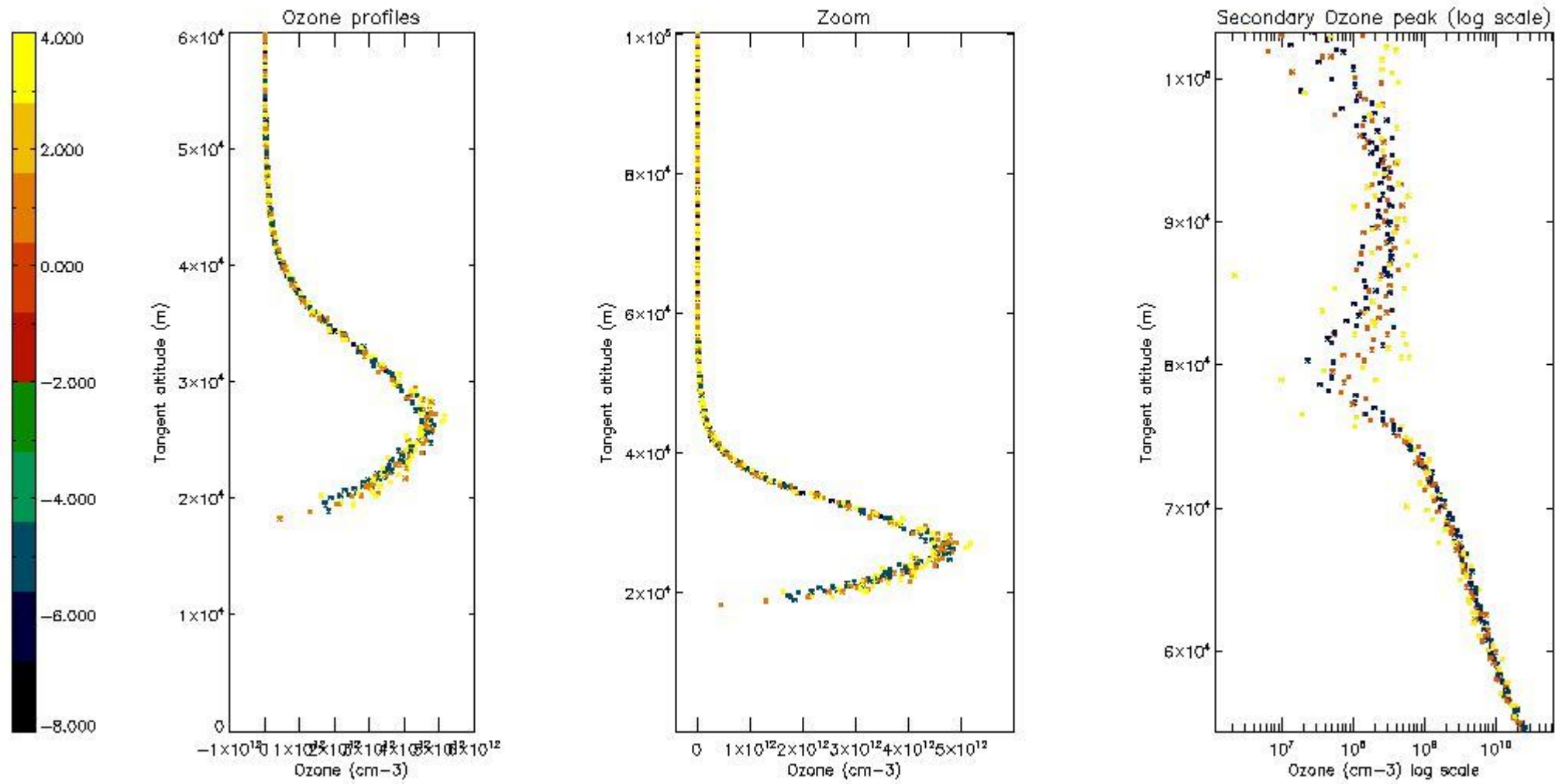
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

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

STD < 10	11
STD < 5	6

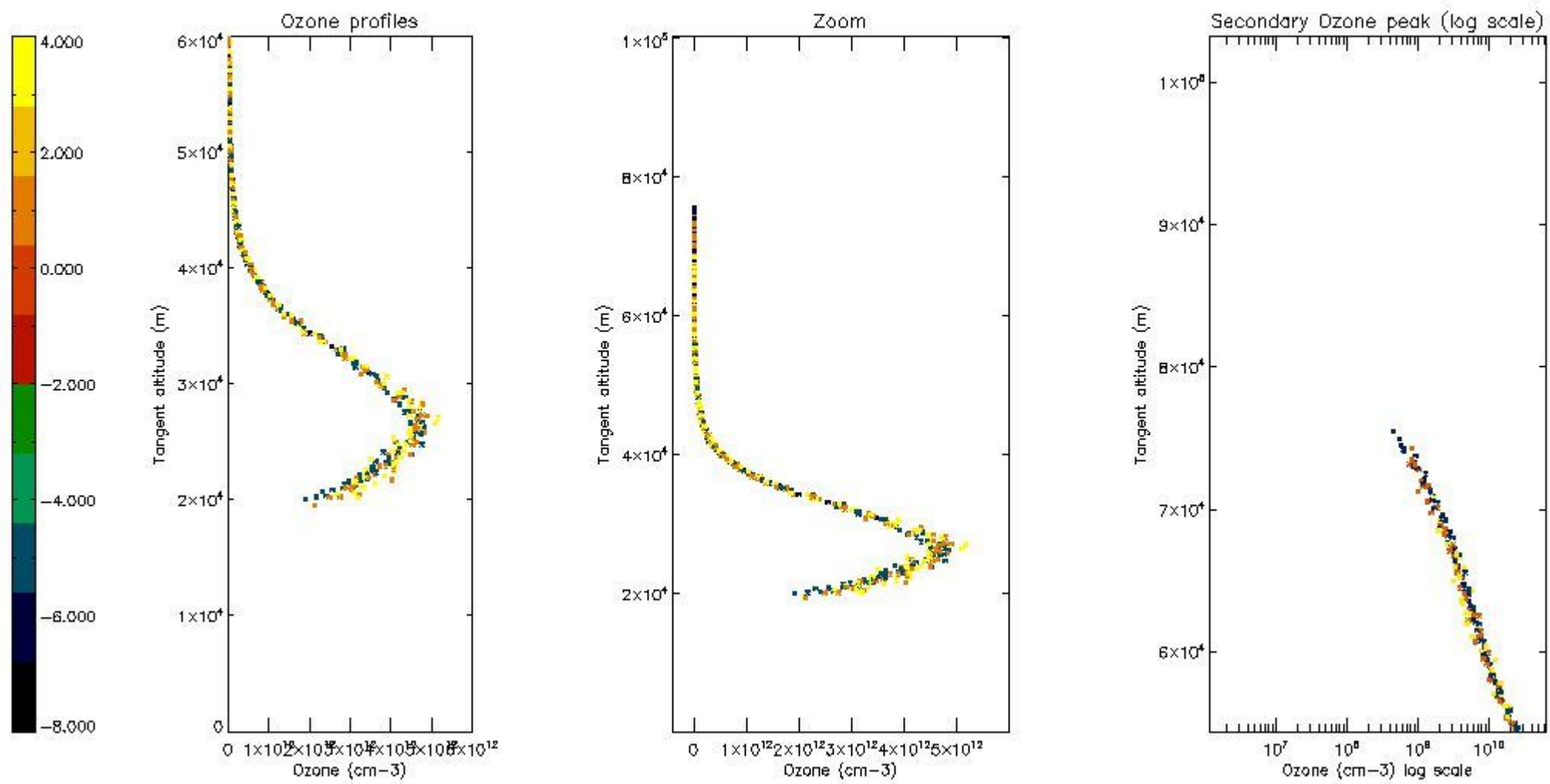
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



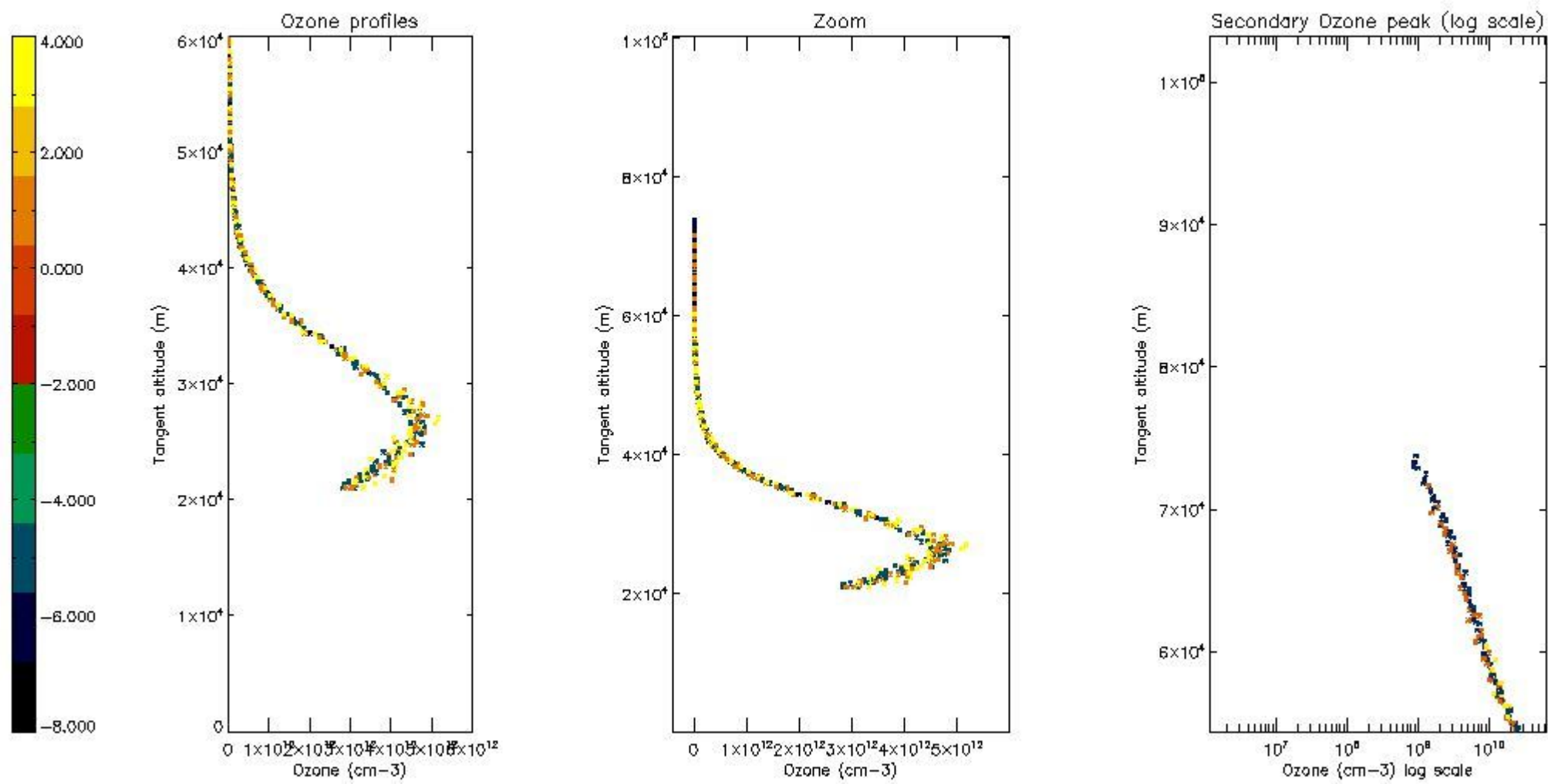
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



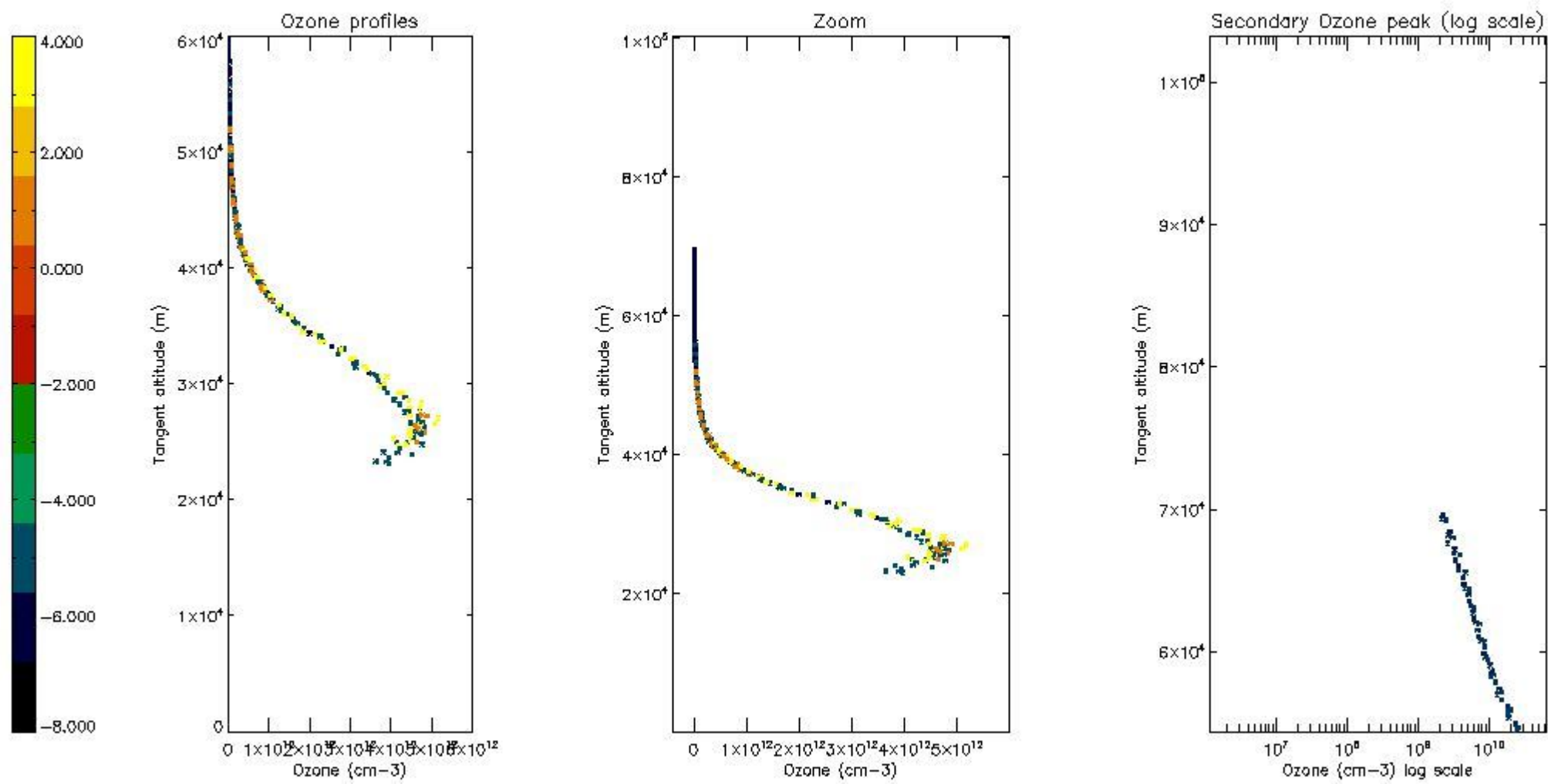
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



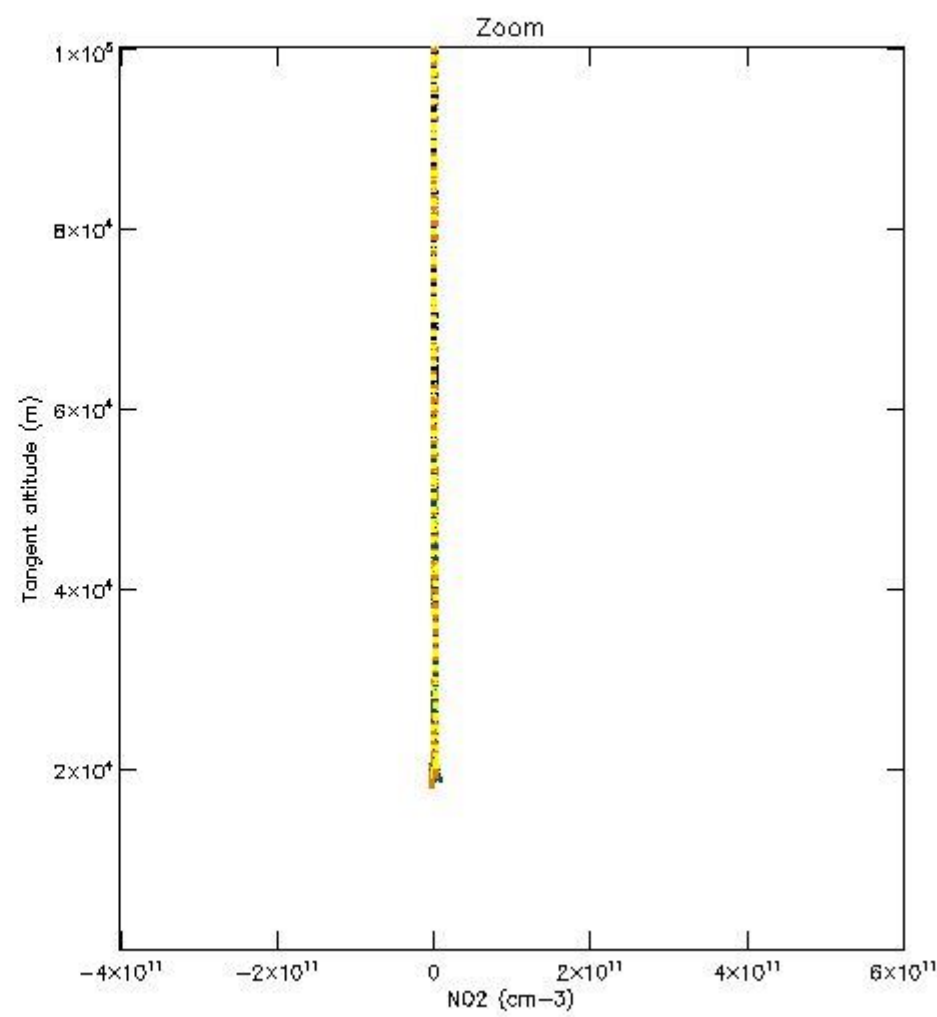
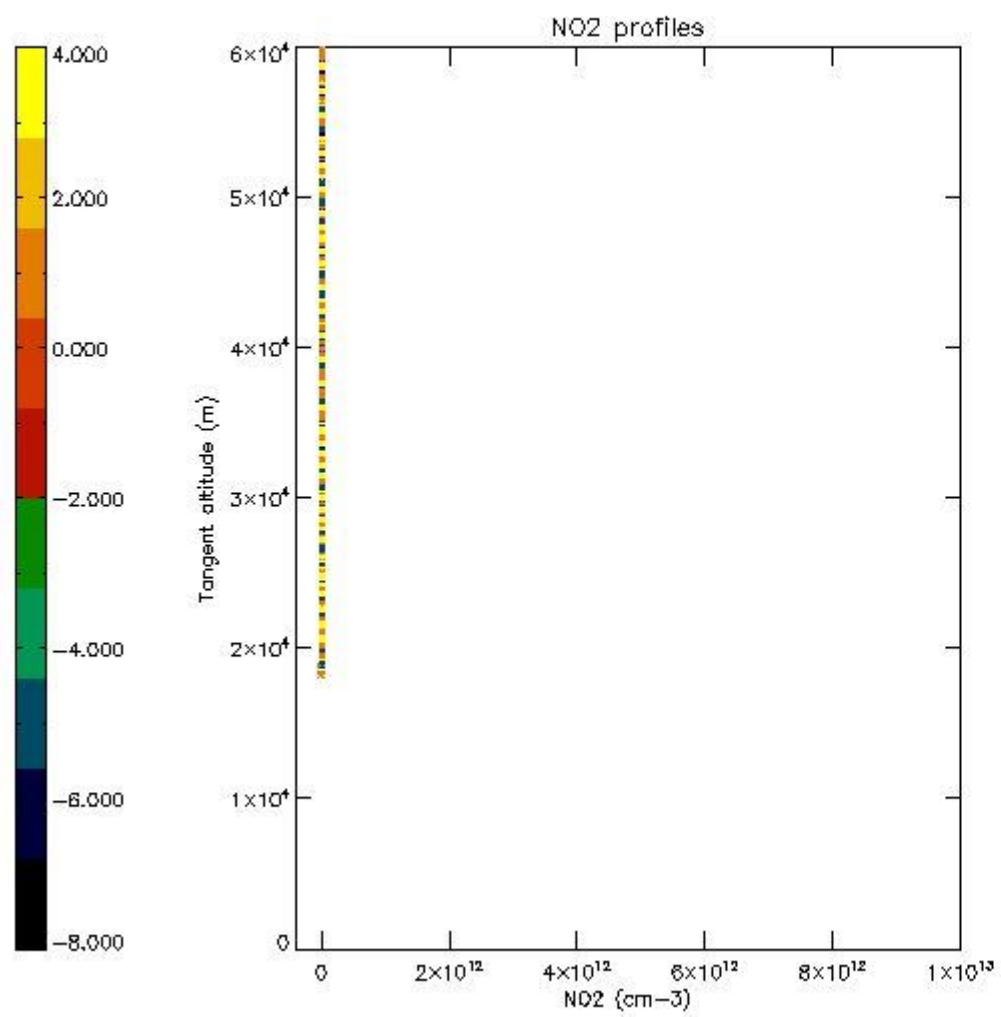
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



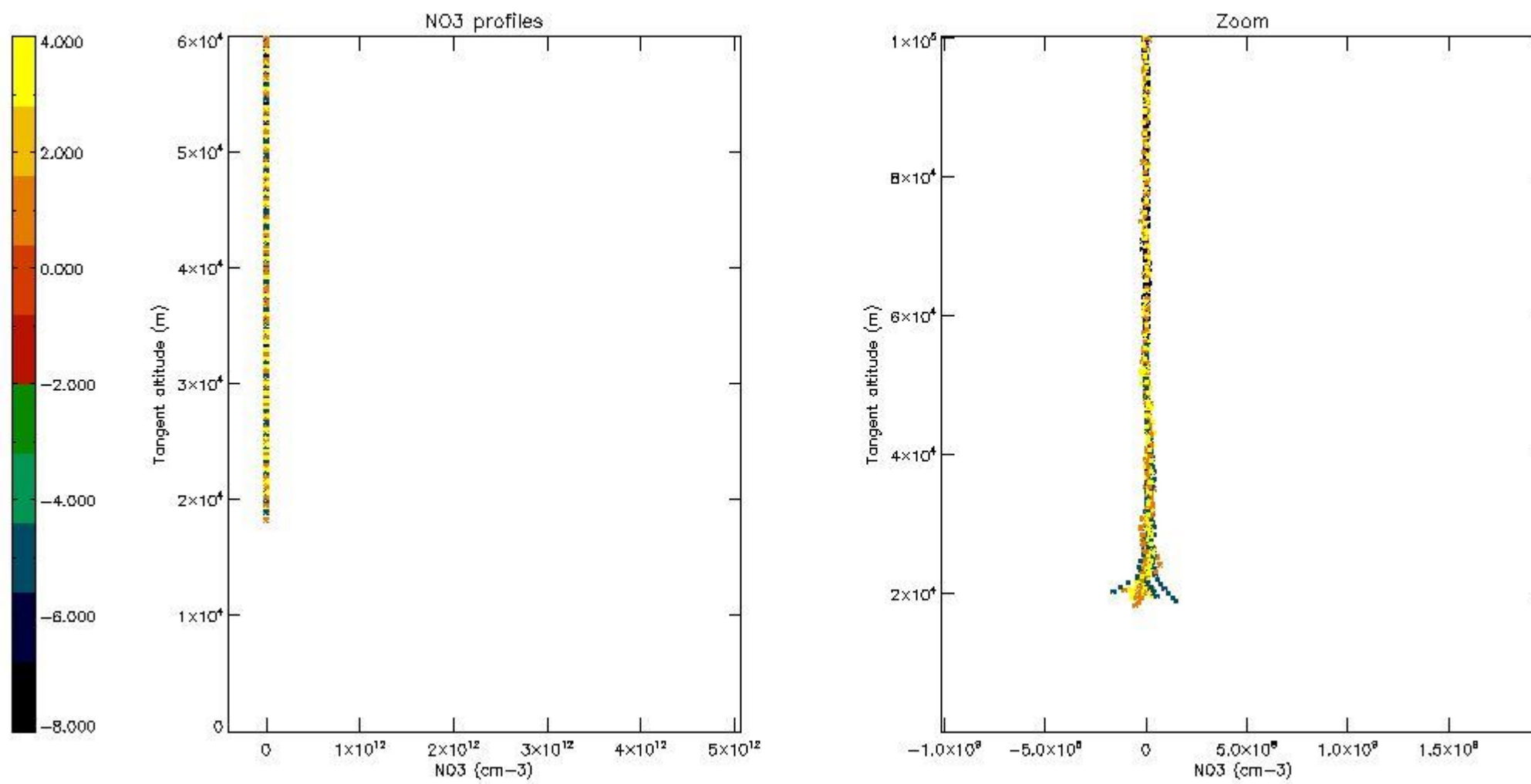
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

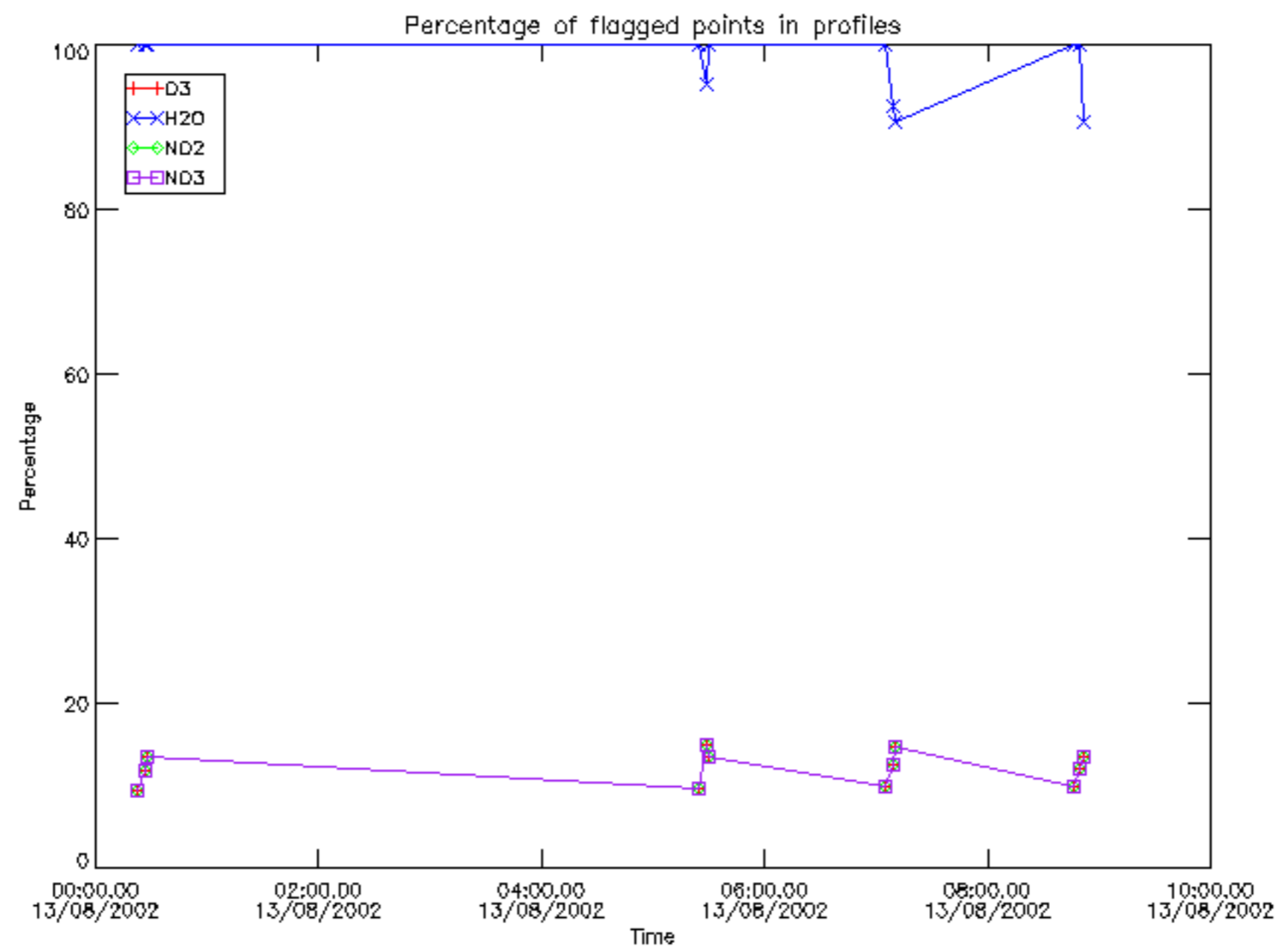
The colorbar represents the latitude.



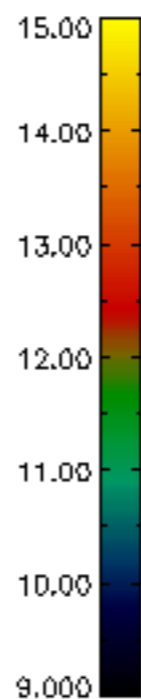
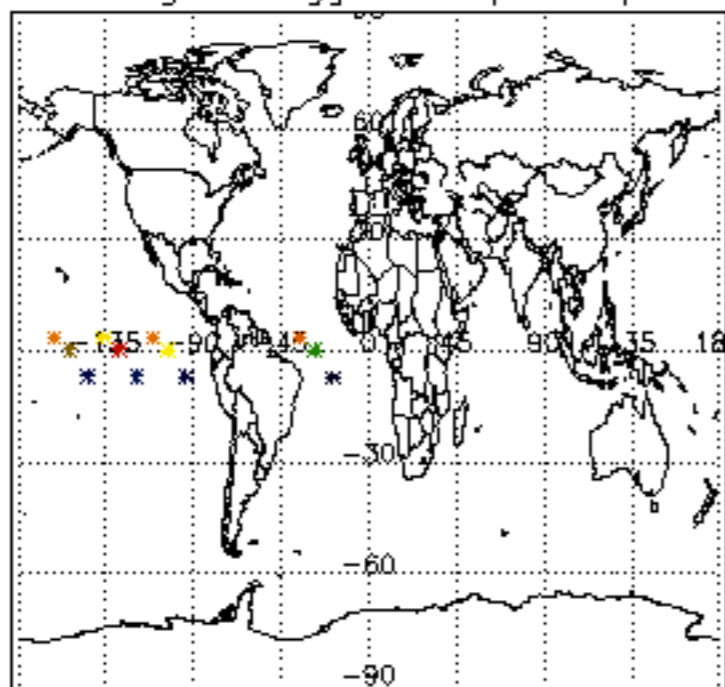
6. Auxiliary Data Files used for the production reported in section 2

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.

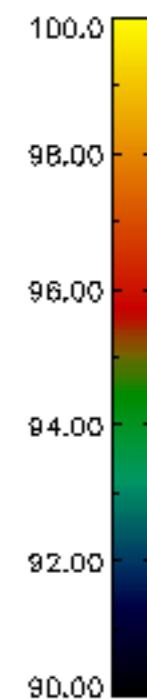
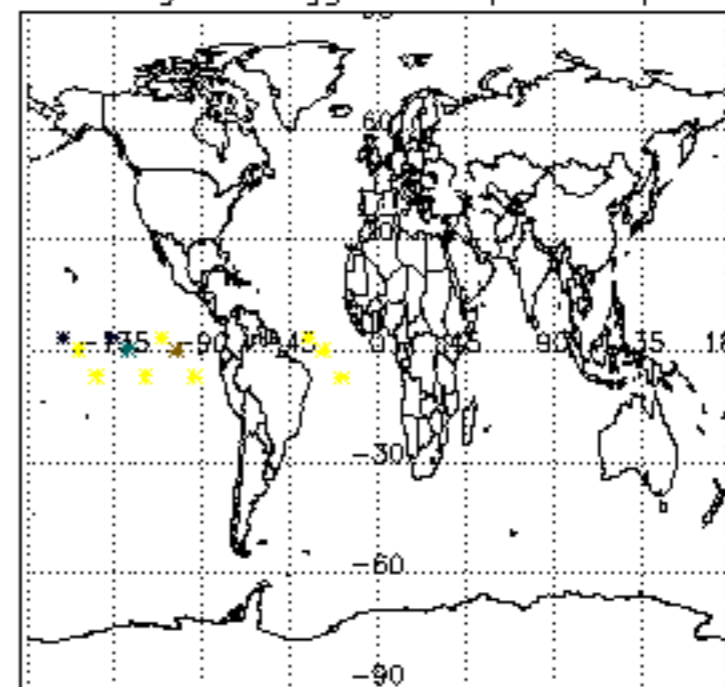
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150440_20020301_000000_20100101_000000	1	13-AUG-2002 00:22:53
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	13-AUG-2002 00:22:53
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	13-AUG-2002 00:22:53



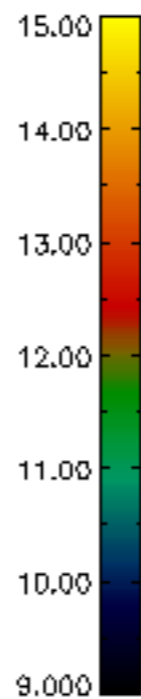
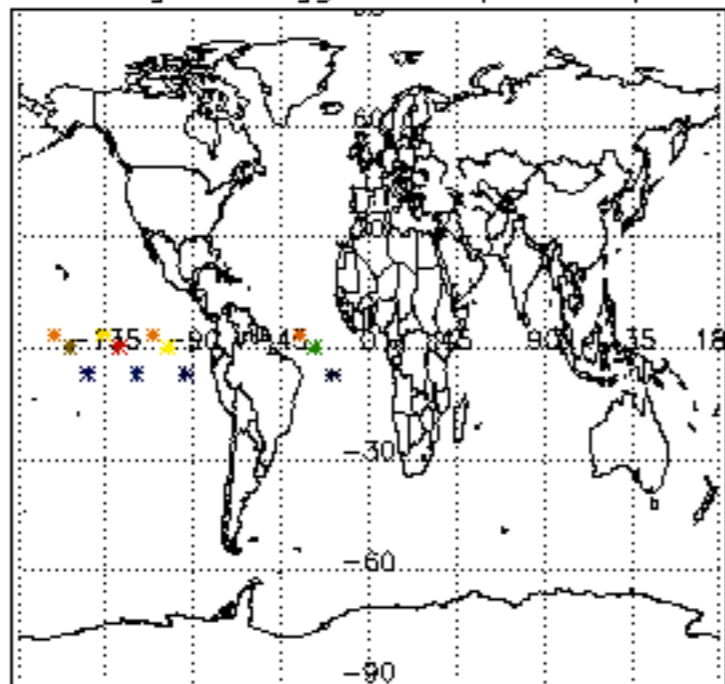
Percentage of flagged data per D3 profile



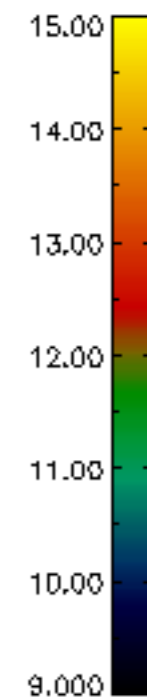
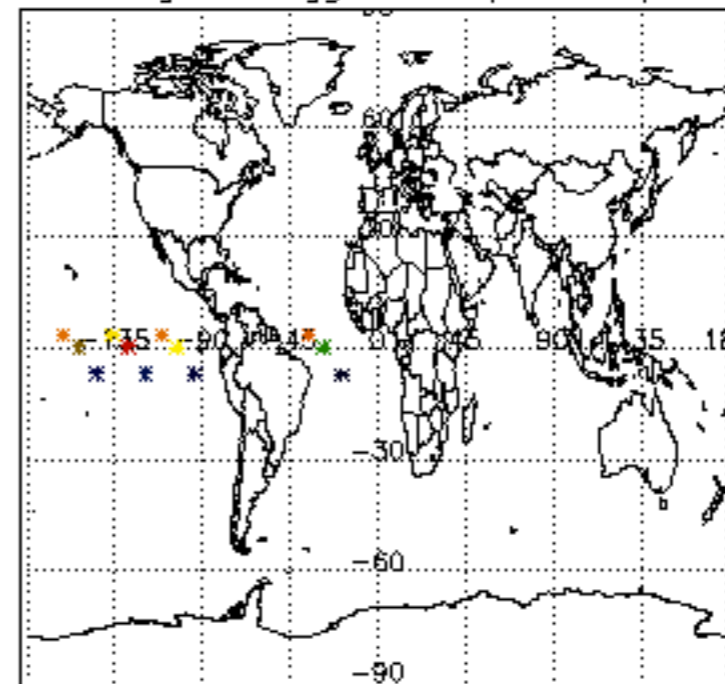
Percentage of flagged data per H2O profile

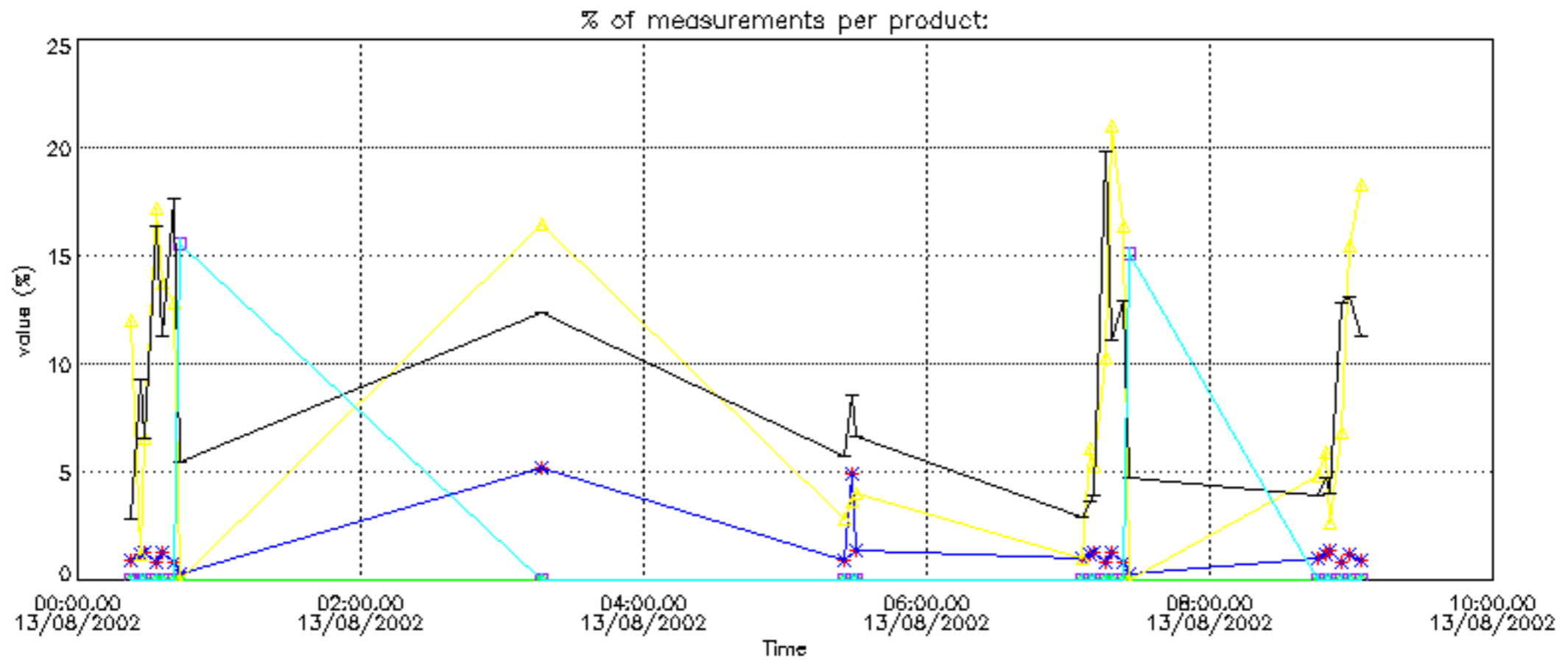


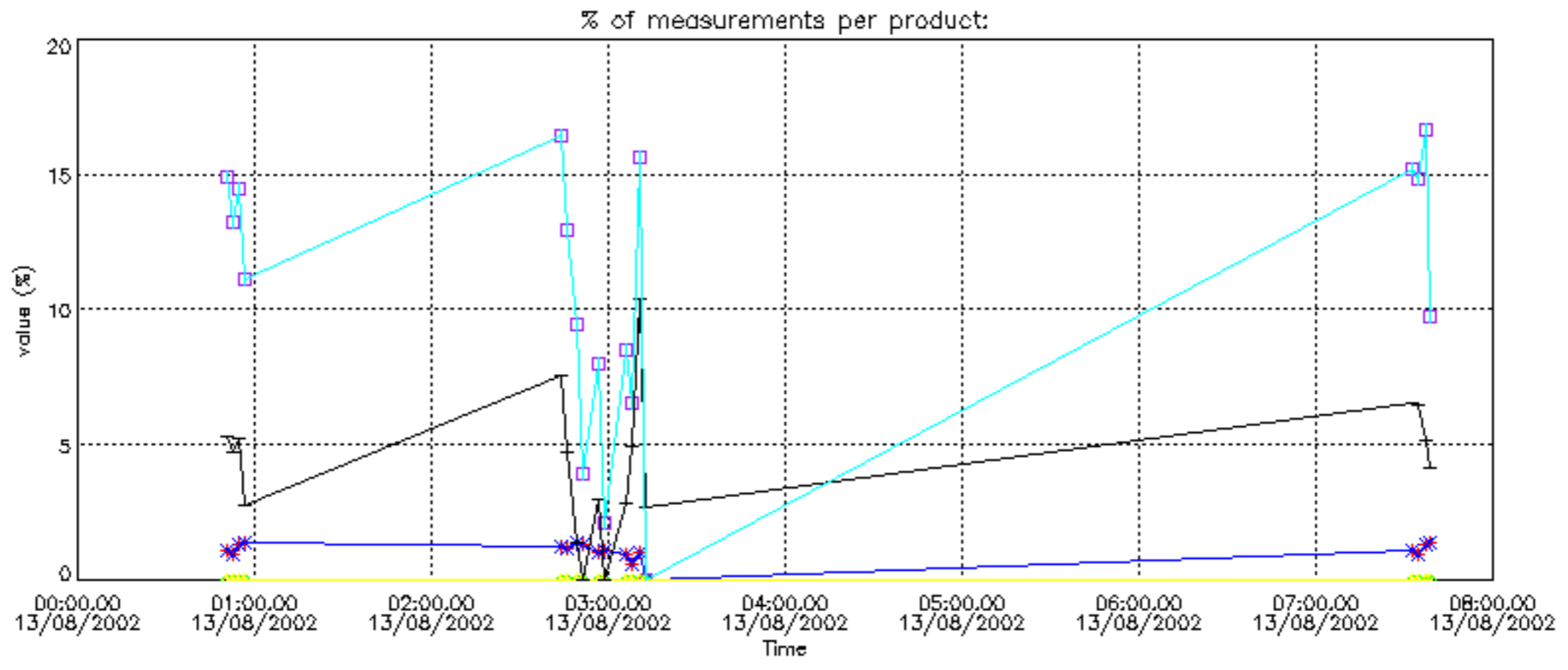
Percentage of flagged data per NO2 profile



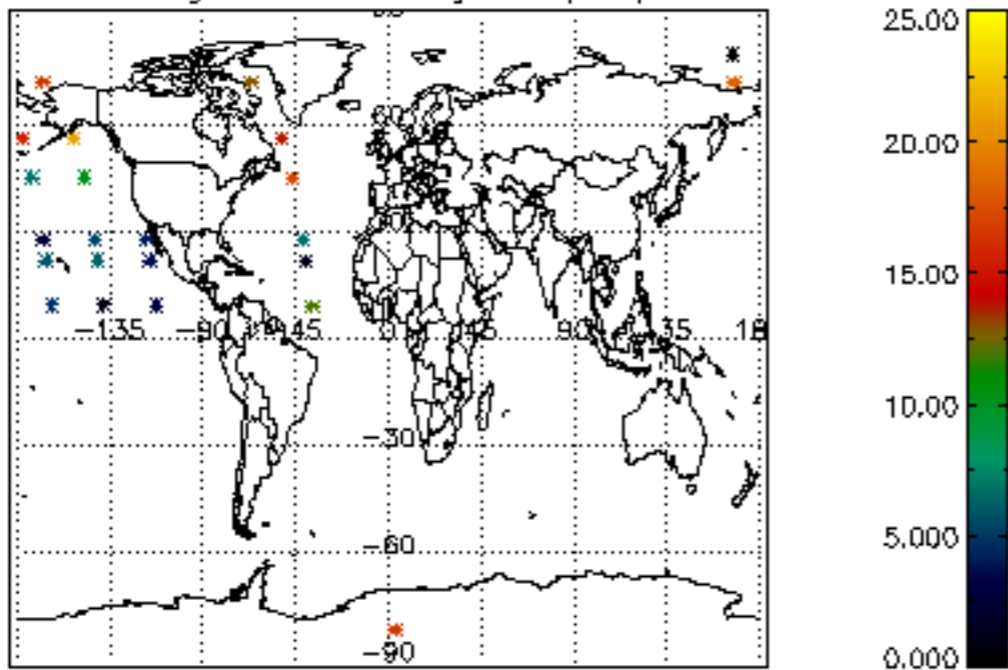
Percentage of flagged data per NO3 profile



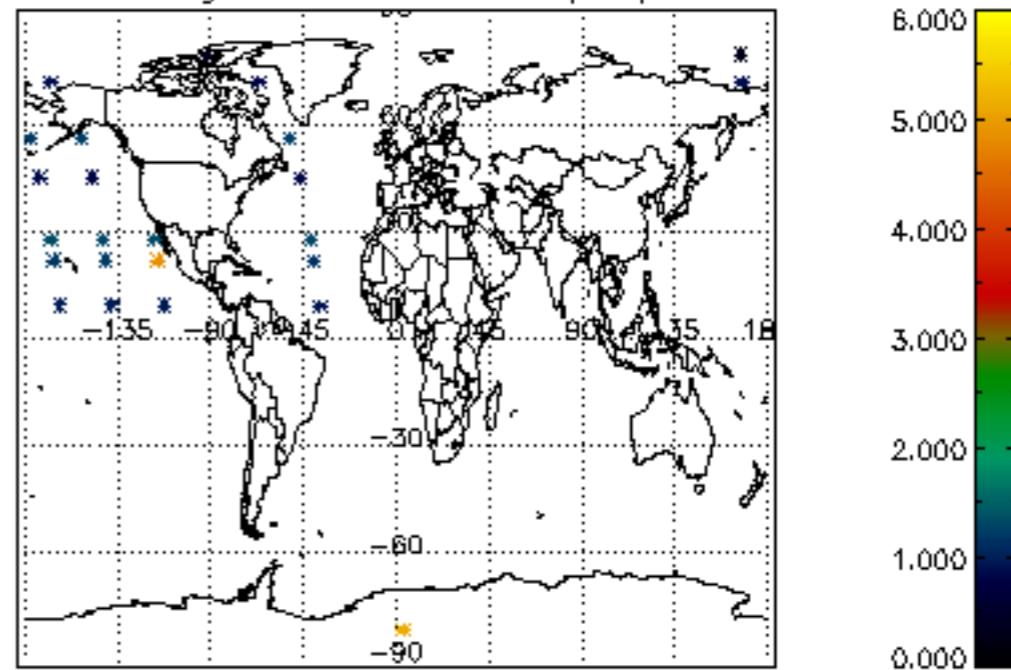




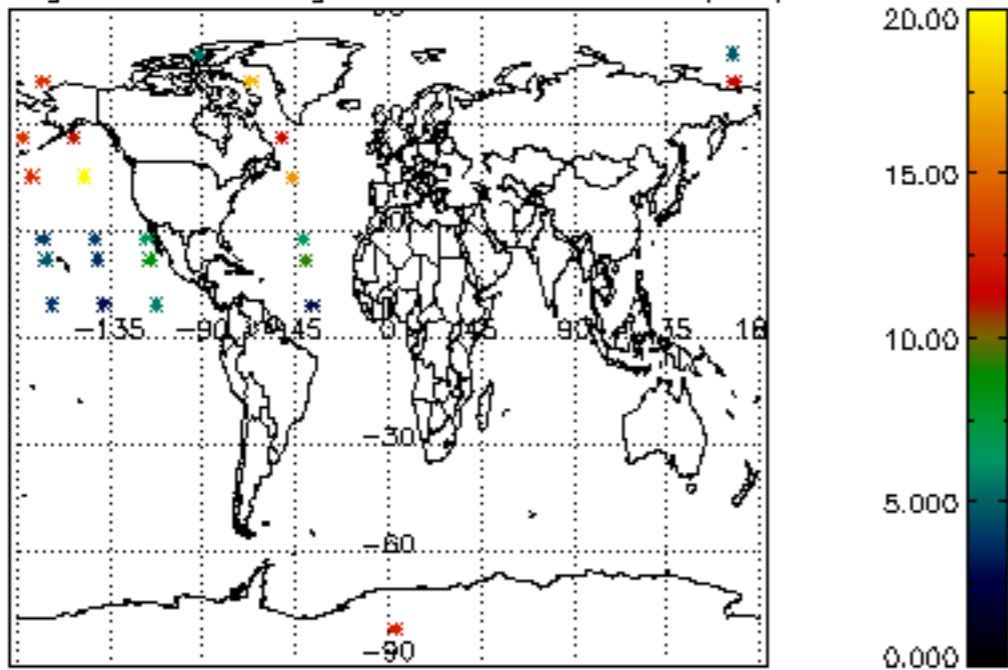
Percentage of cosmic ray hits per profile



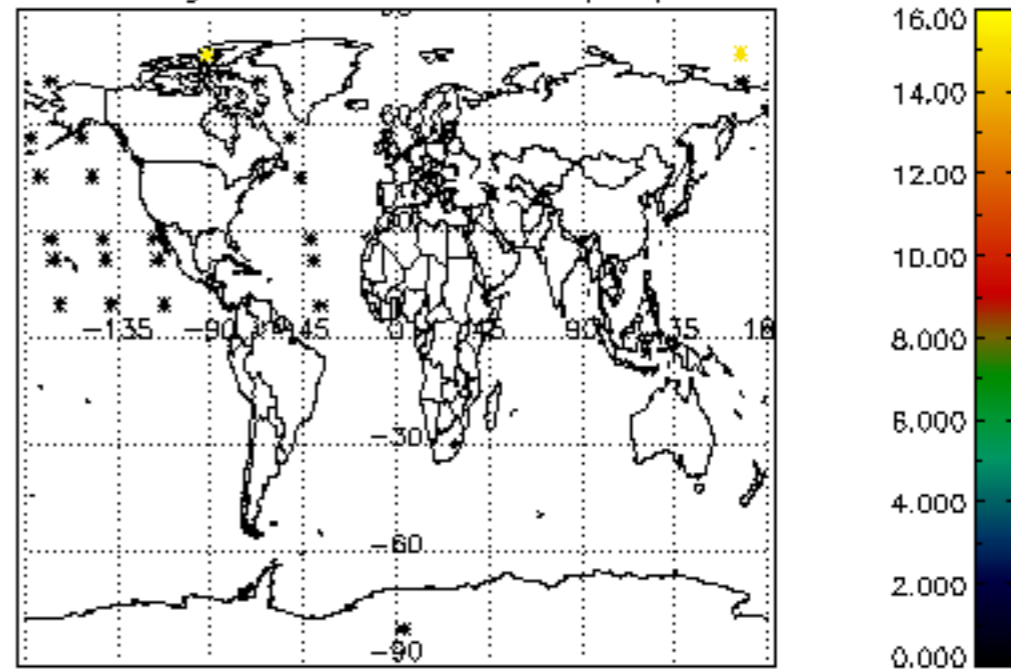
Percentage of datation errors per profile



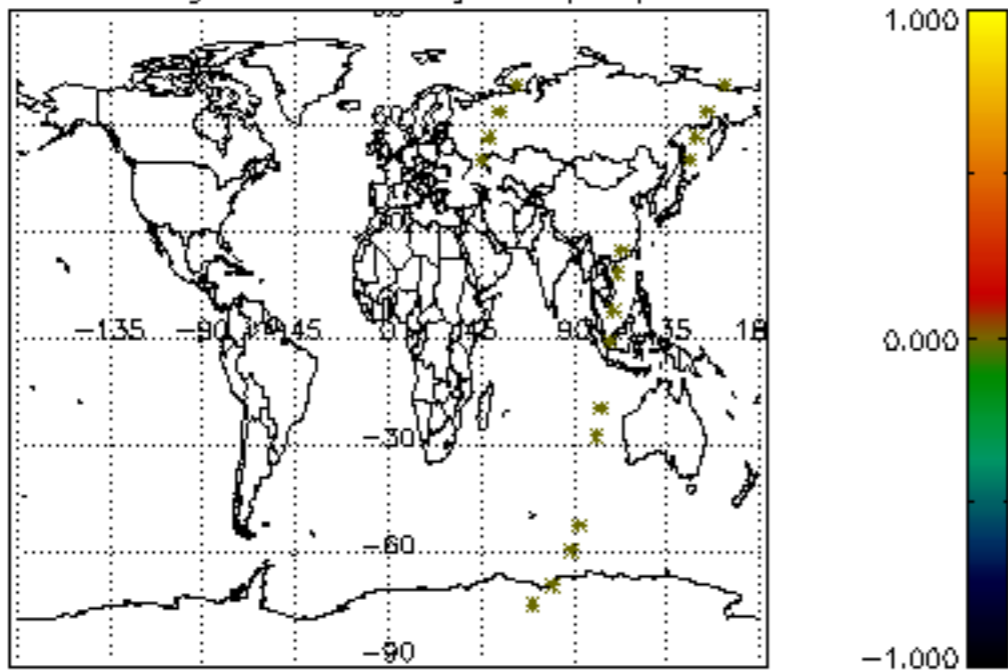
Percentage of star falling outside central band per profile



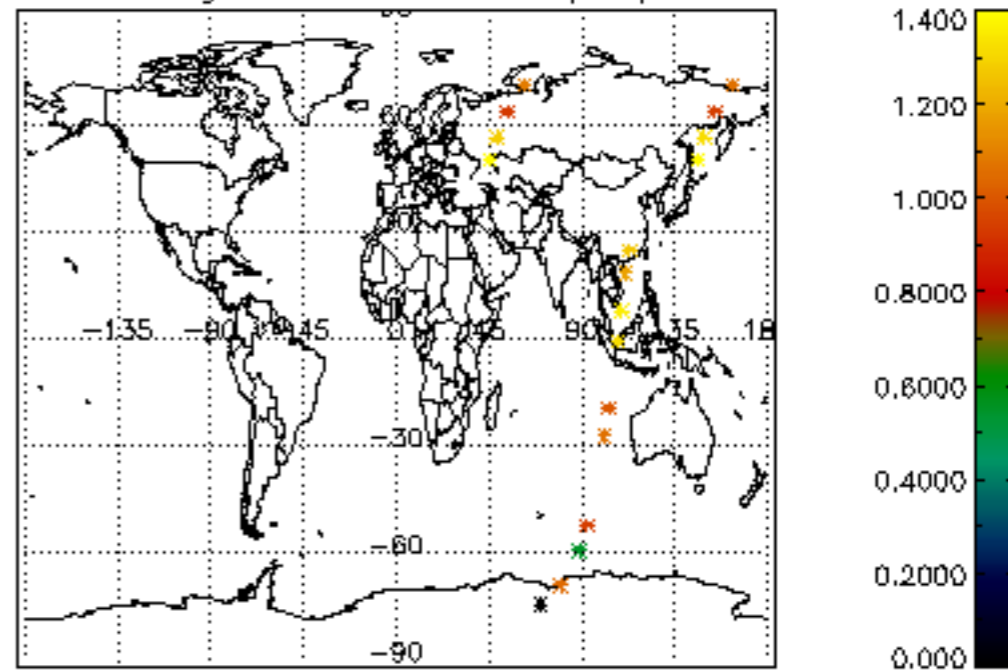
Percentage of saturation errors per profile



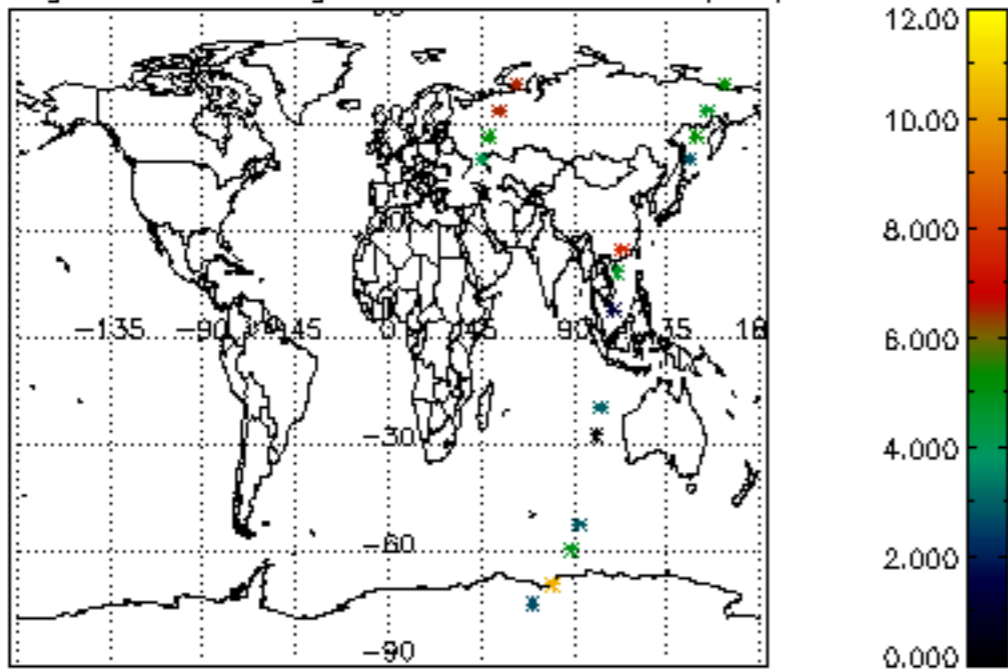
Percentage of cosmic ray hits per profile



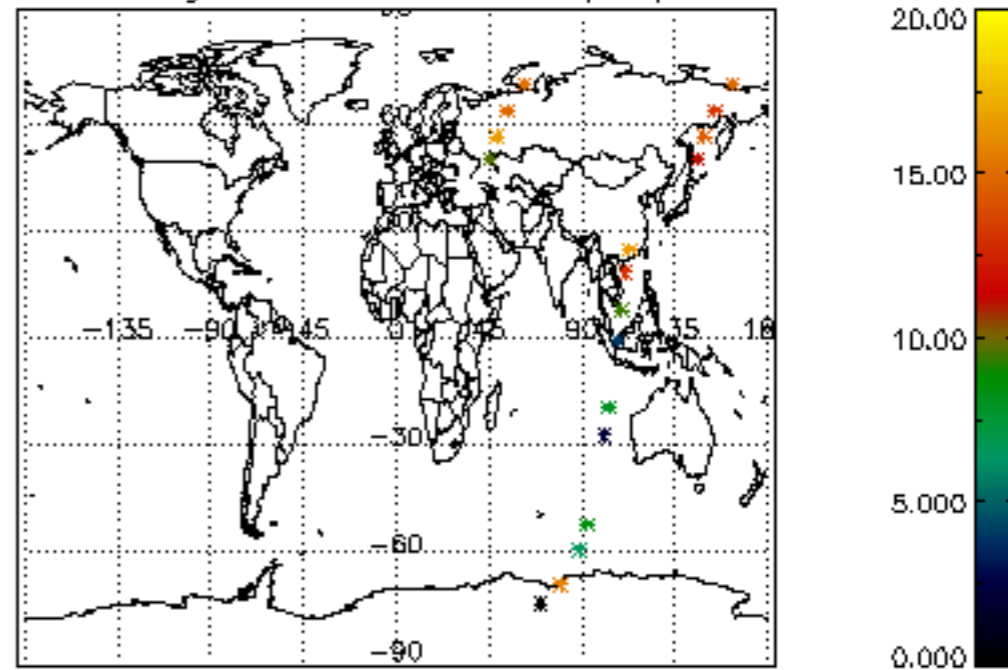
Percentage of datation errors per profile

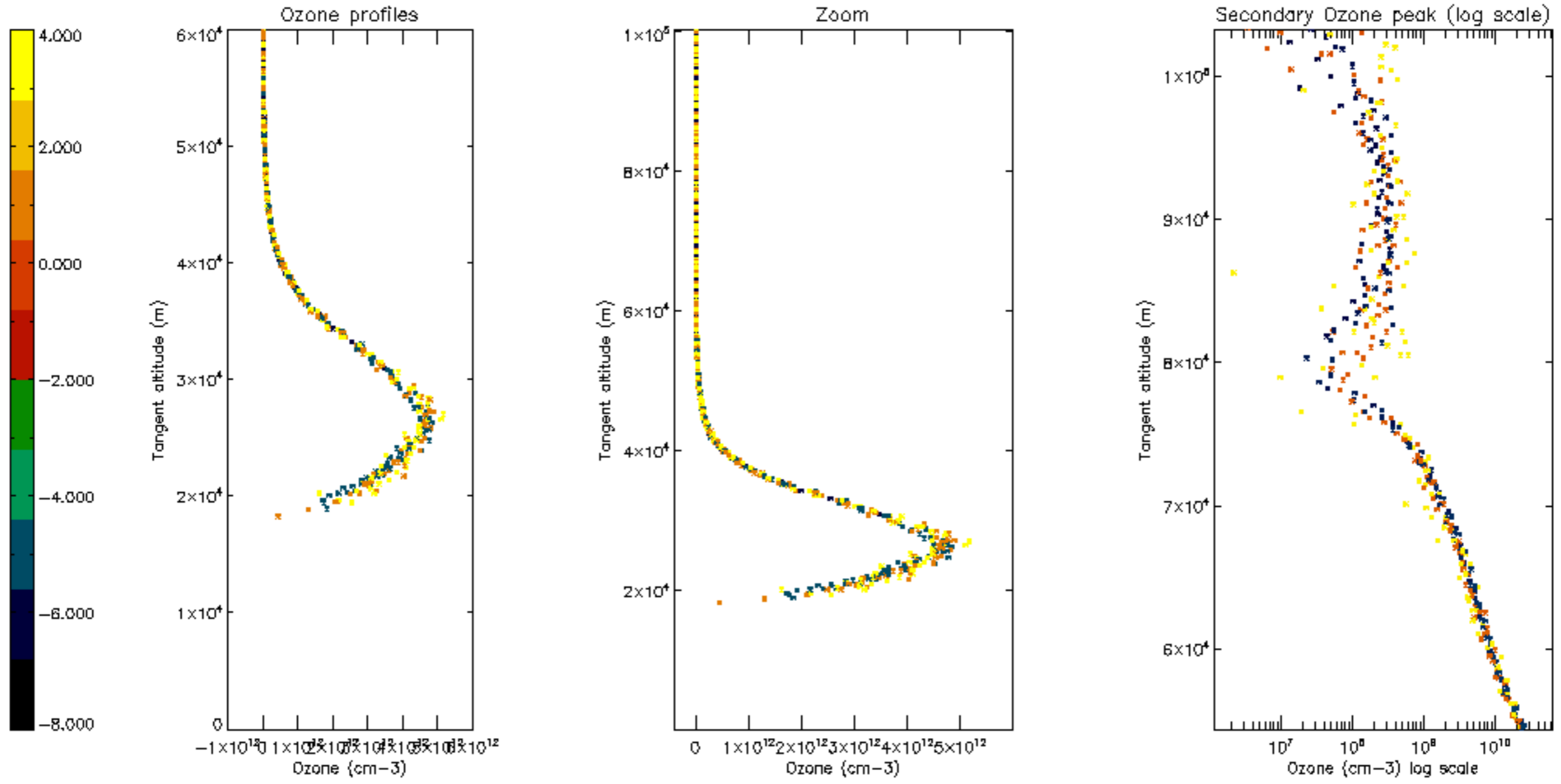


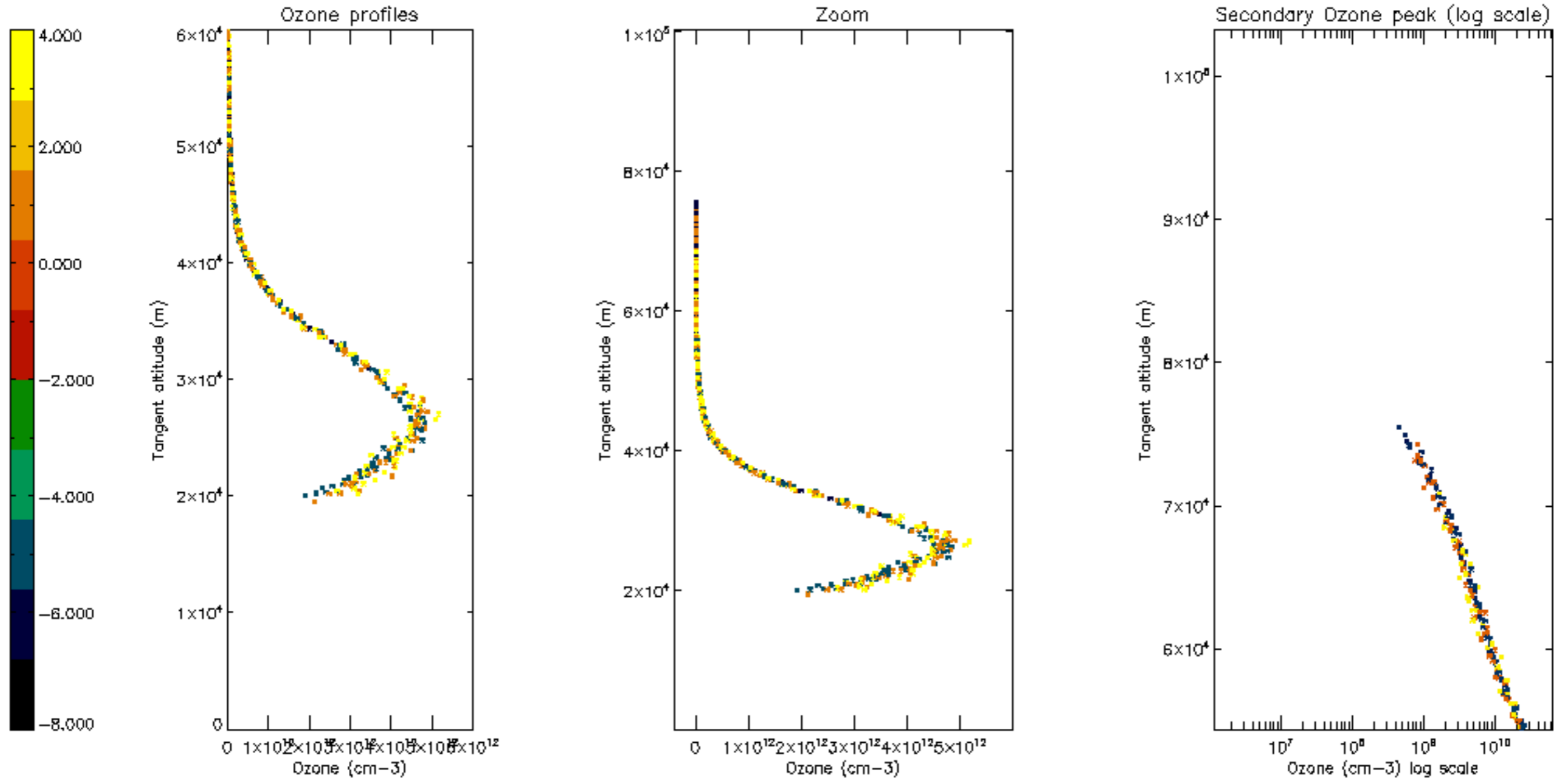
Percentage of star falling outside central band per profile

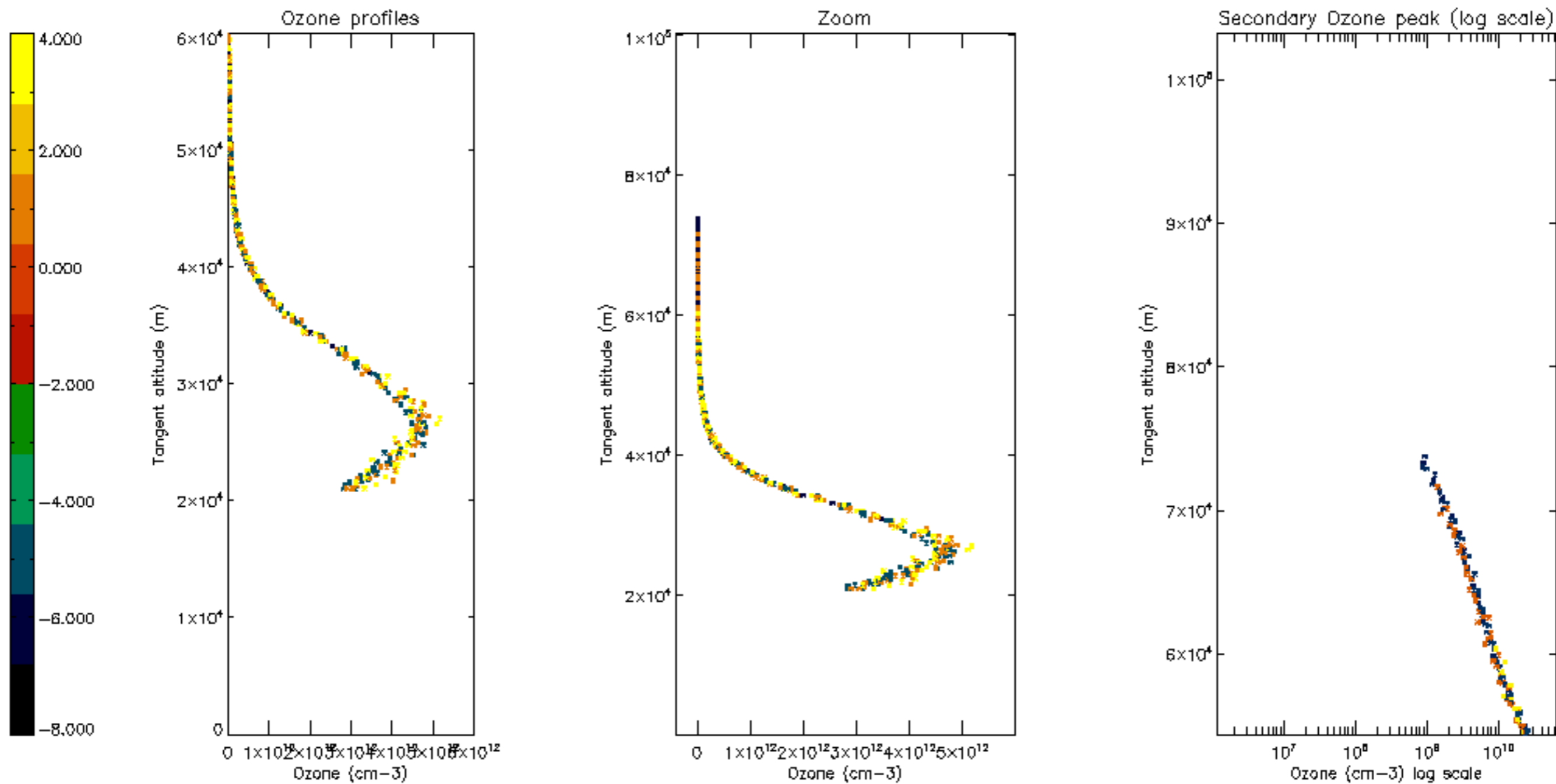


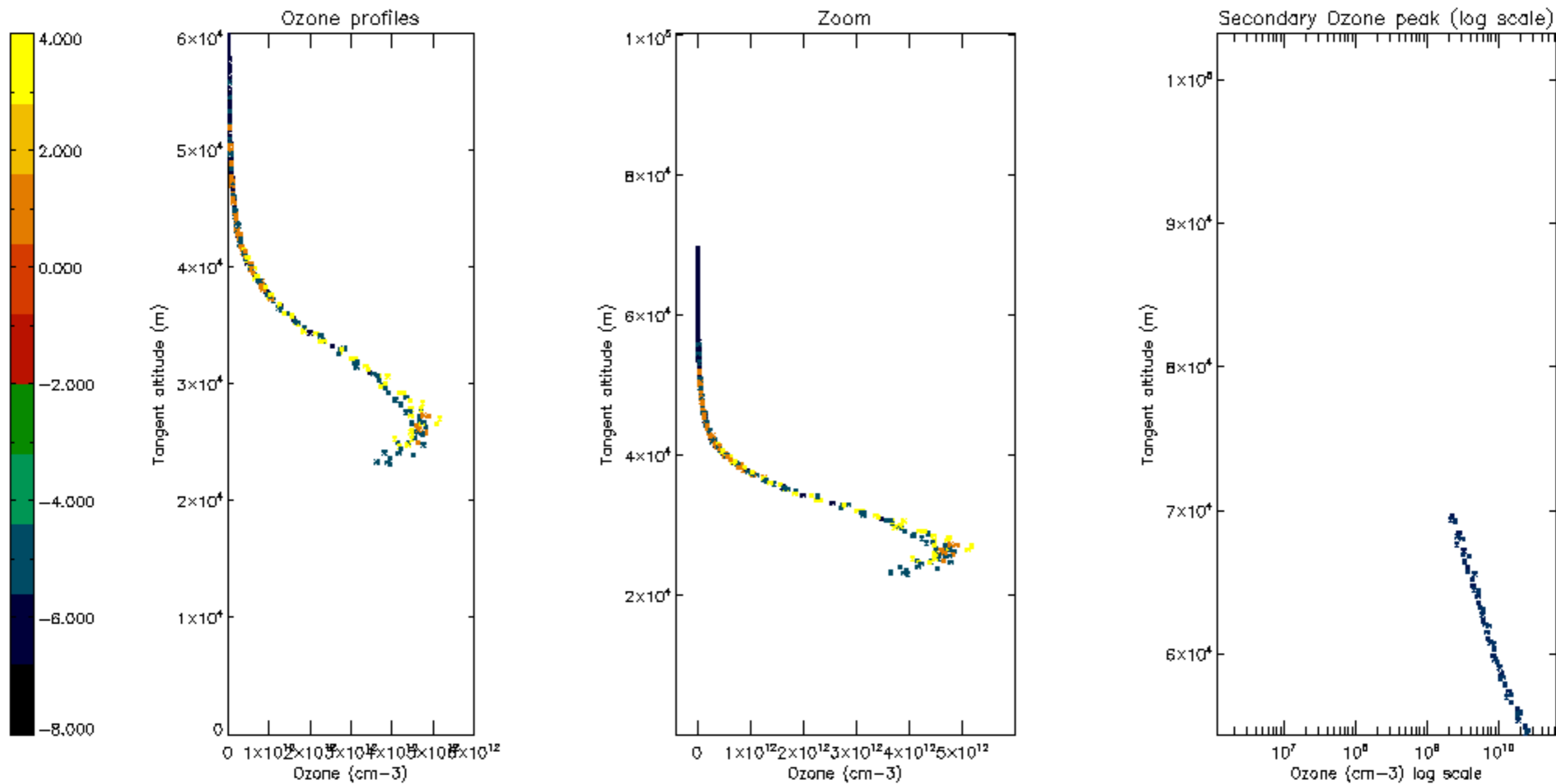
Percentage of saturation errors per profile

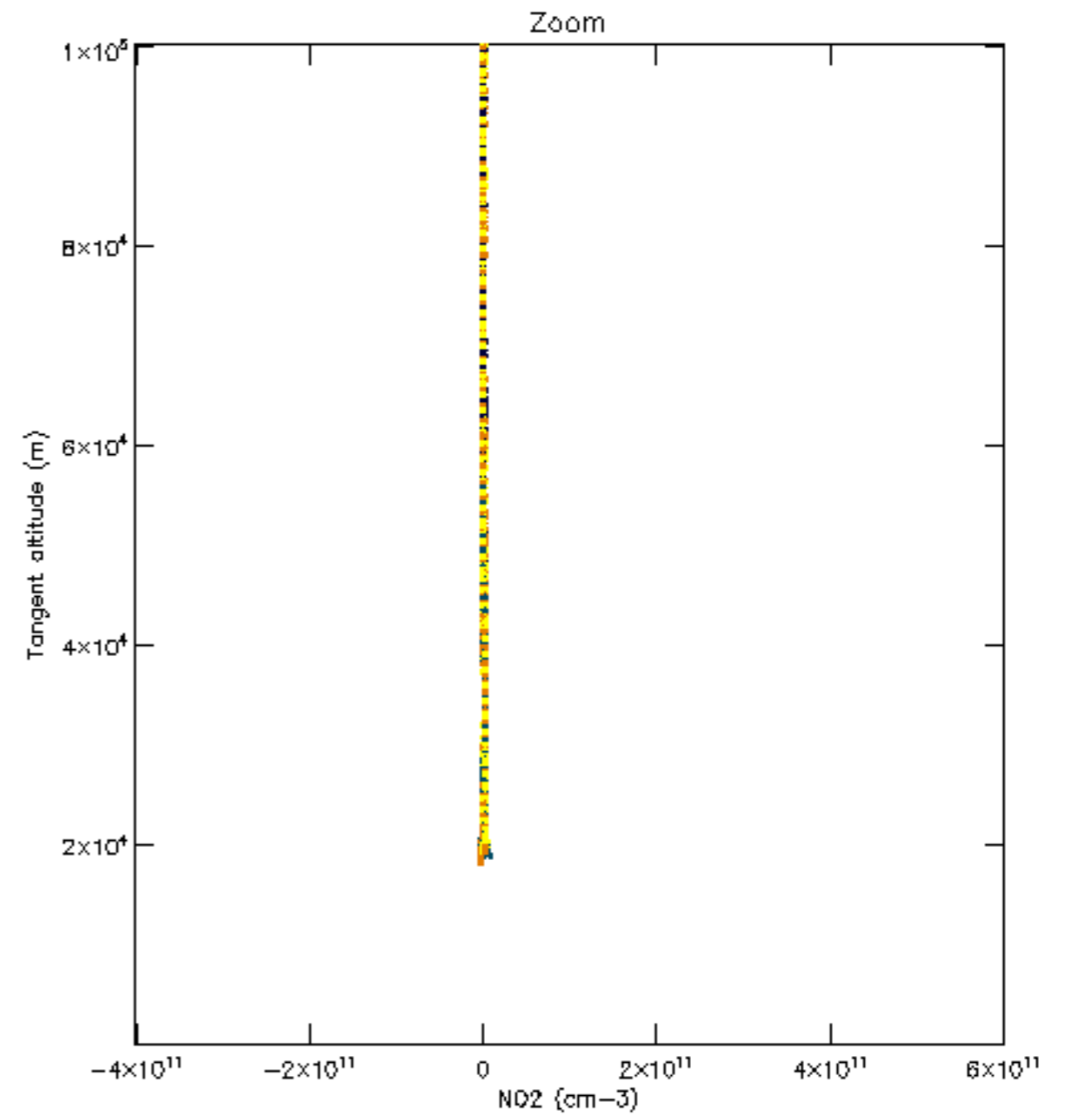
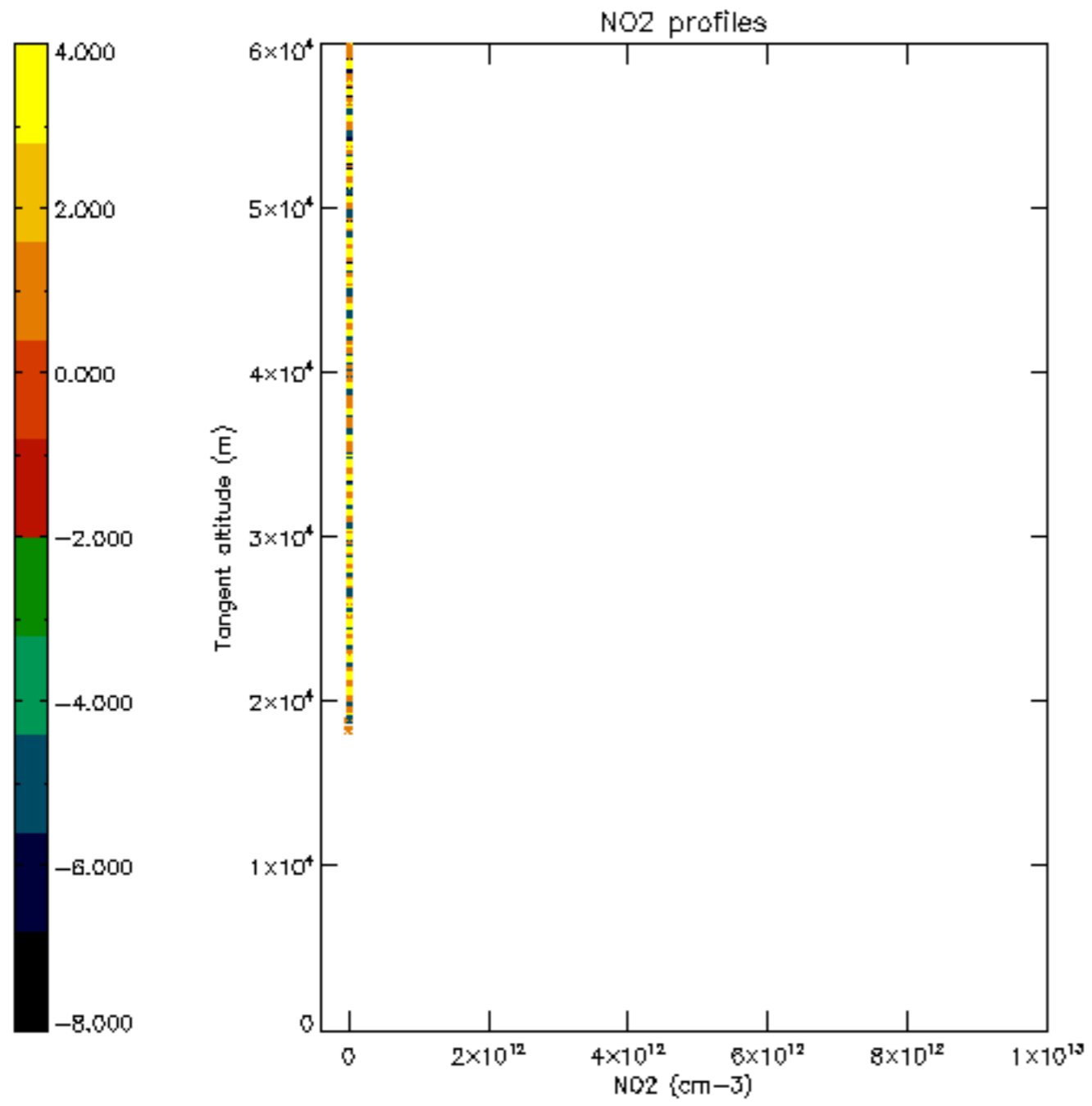


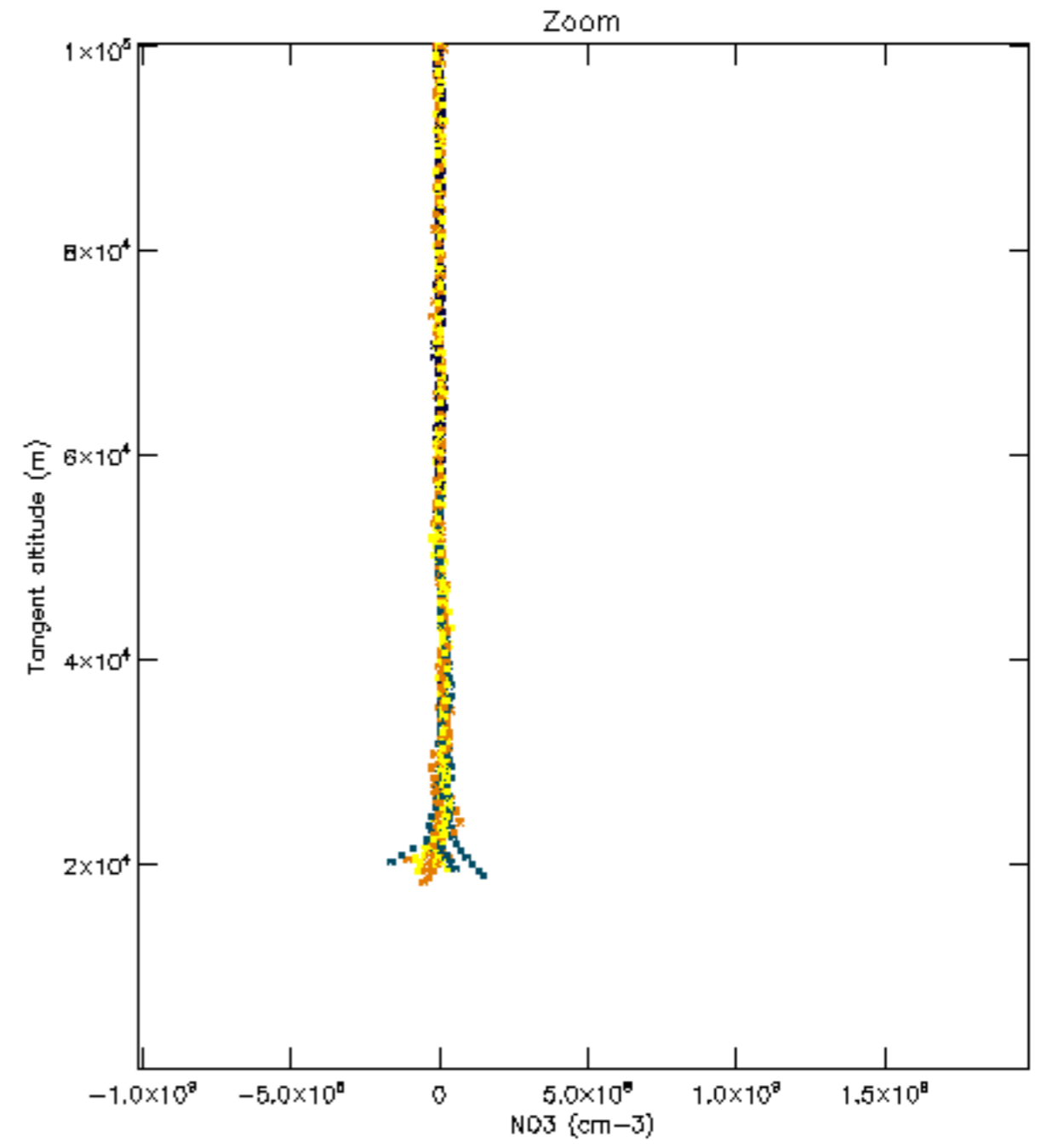
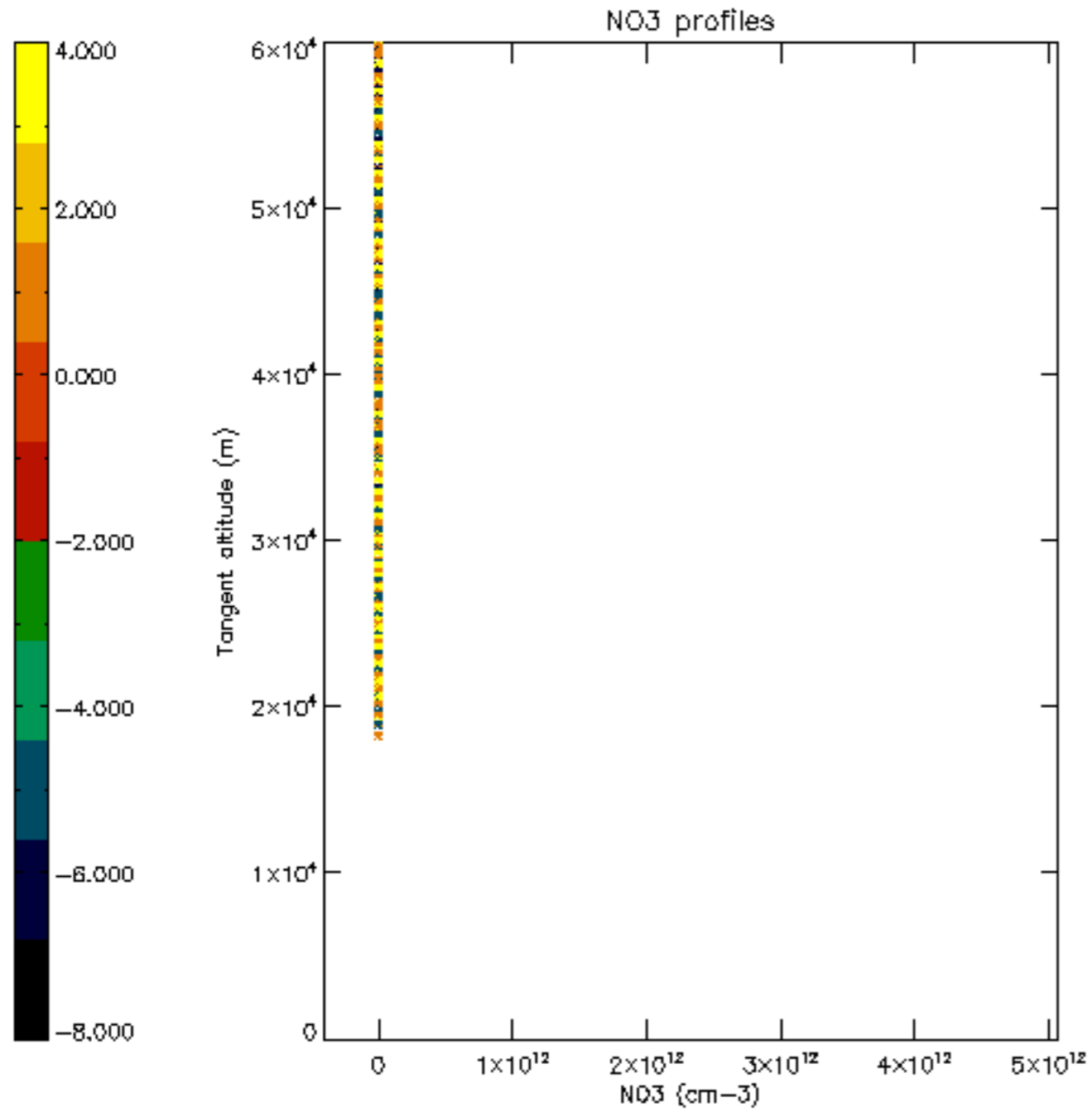


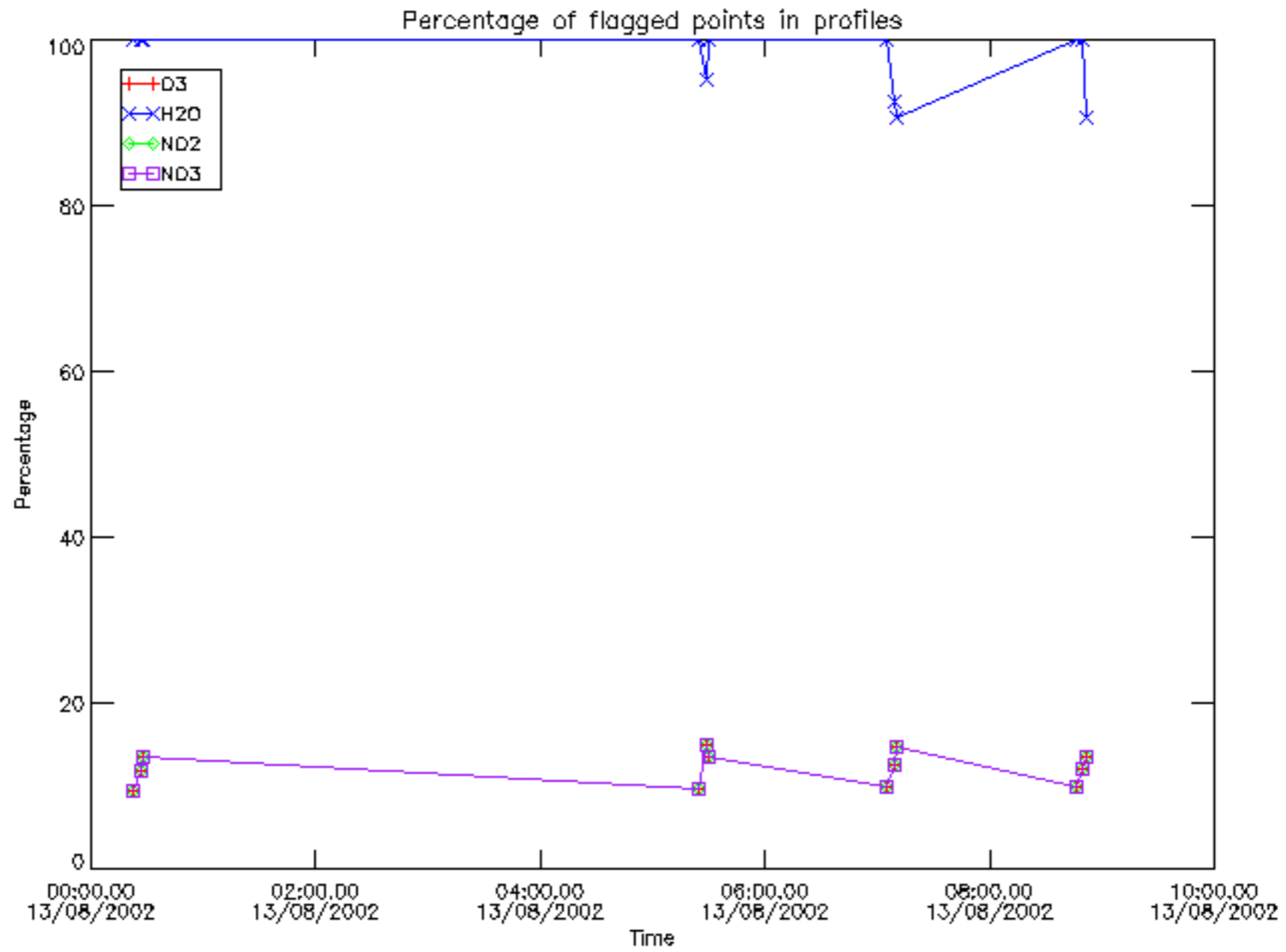




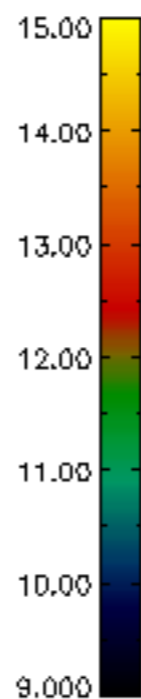
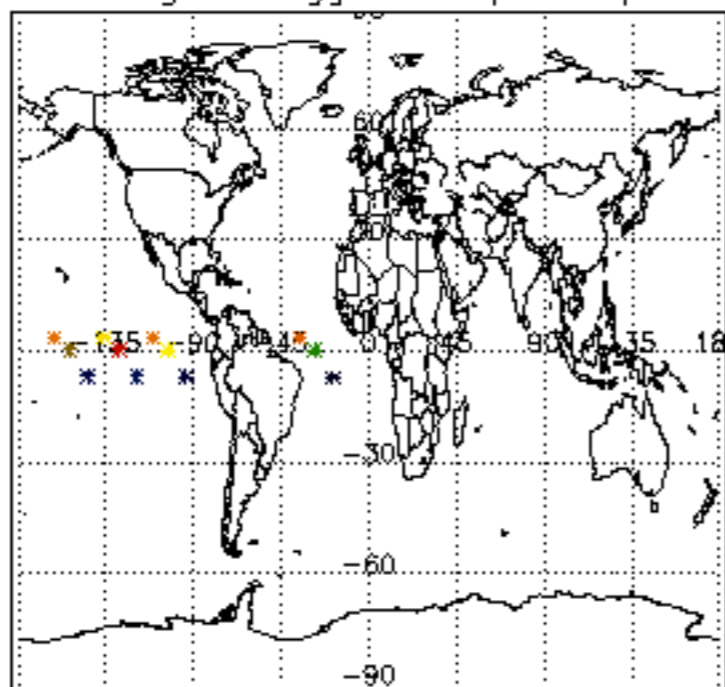




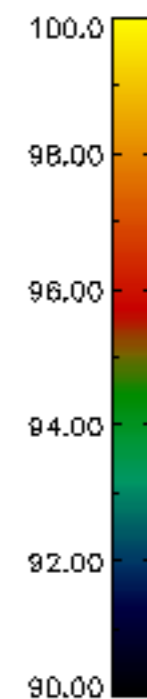
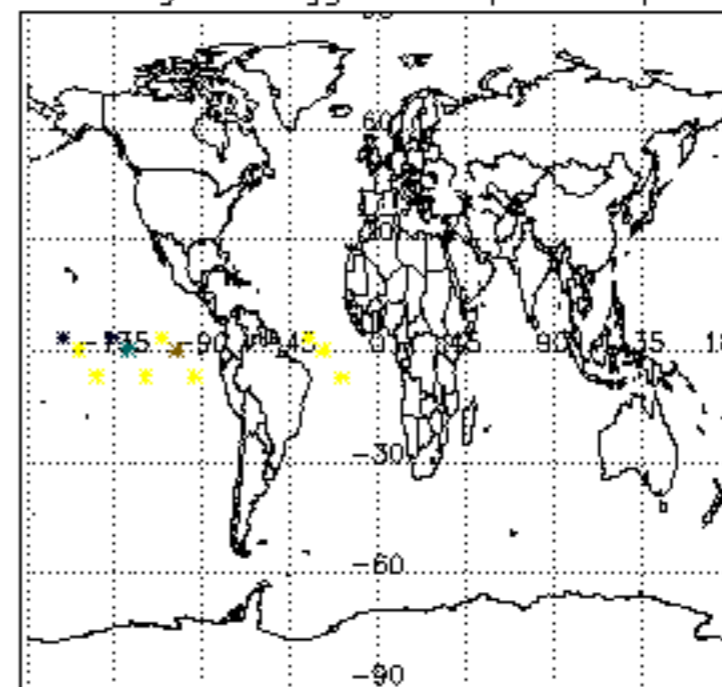




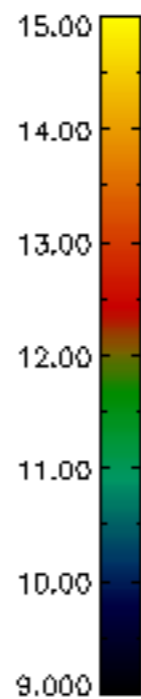
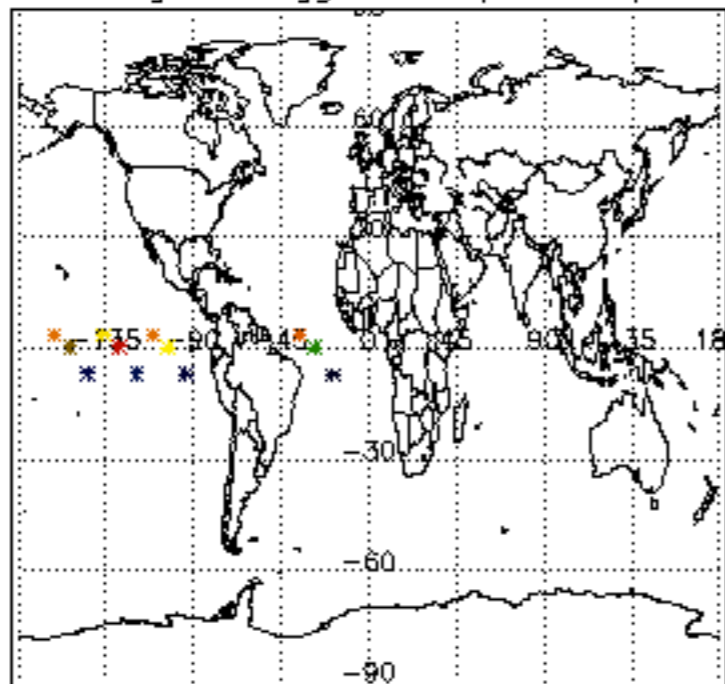
Percentage of flagged data per D3 profile



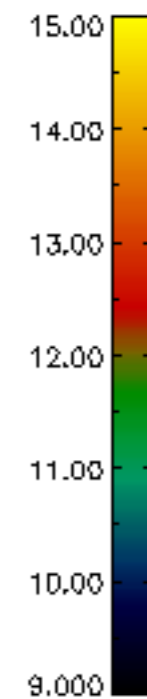
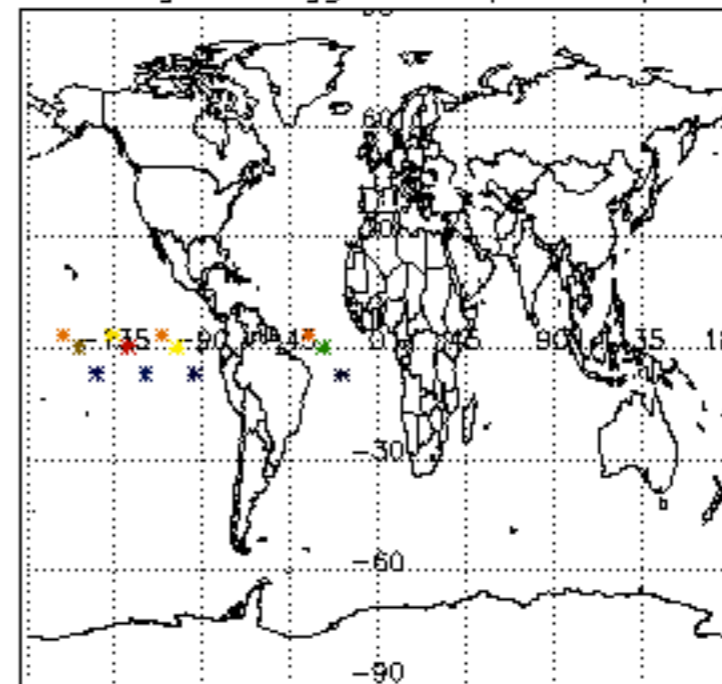
Percentage of flagged data per H2O profile

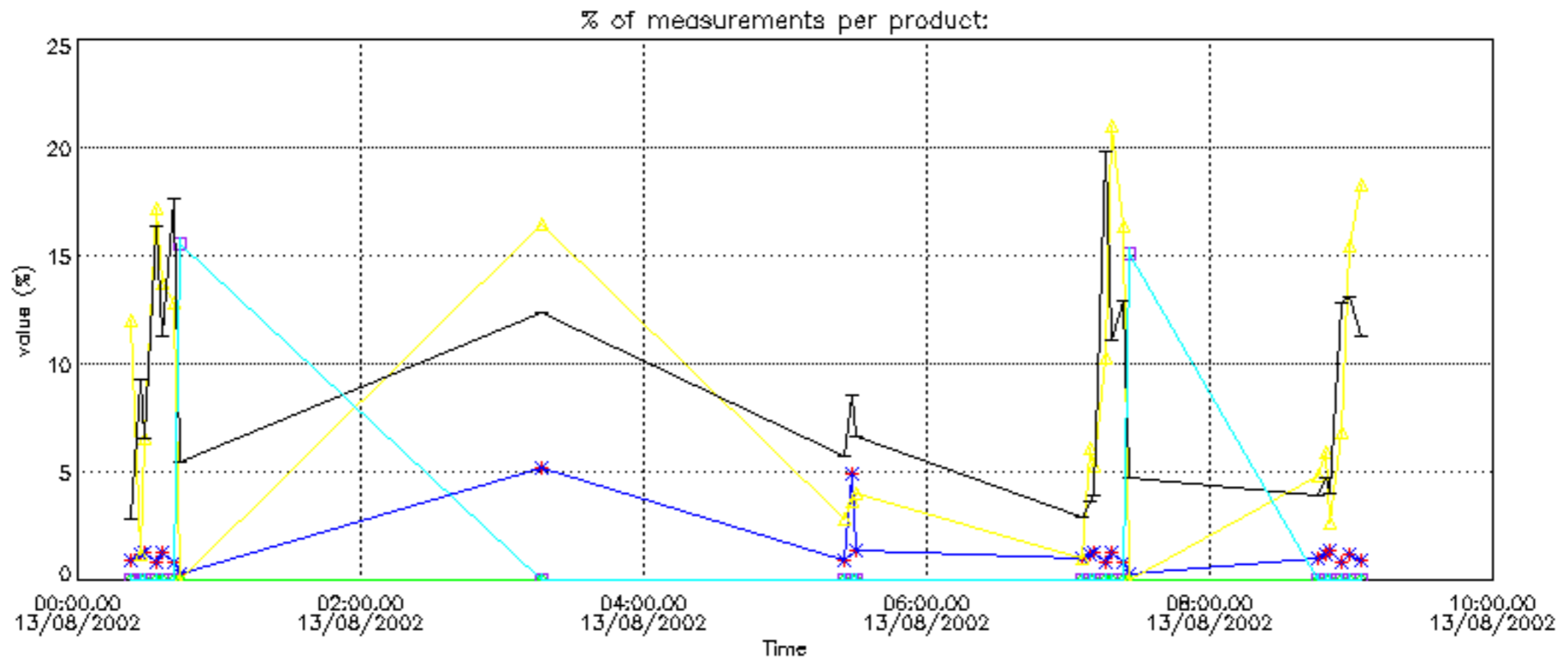


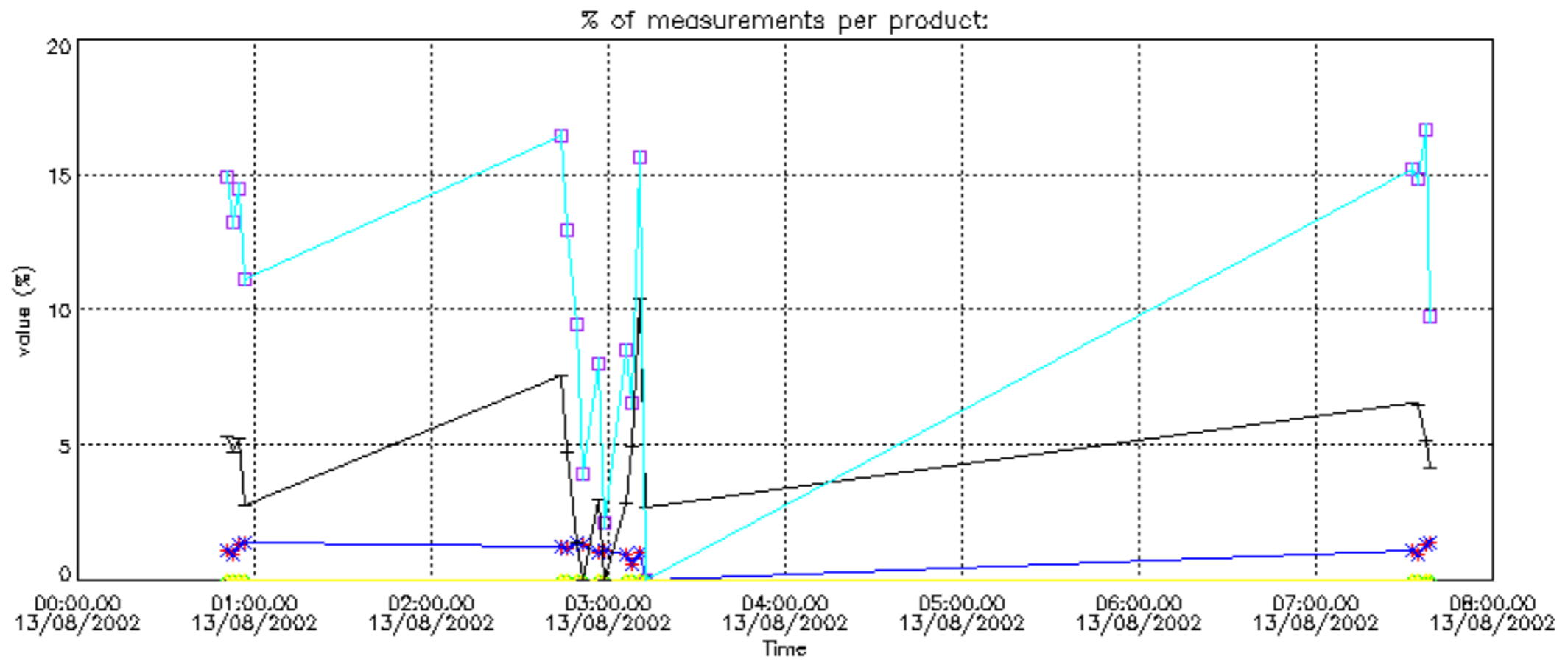
Percentage of flagged data per NO2 profile



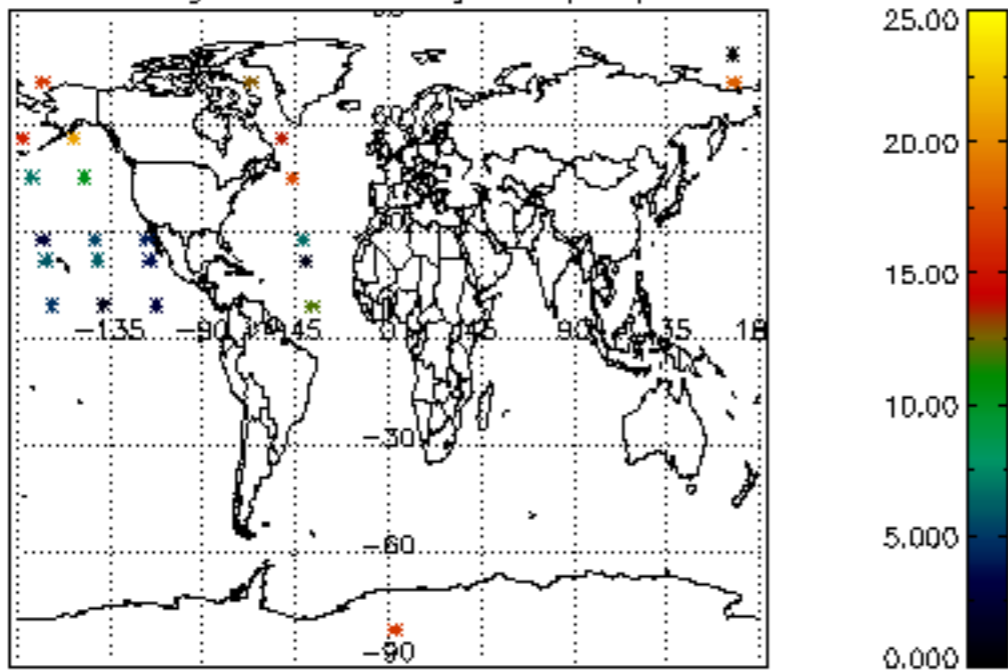
Percentage of flagged data per NO3 profile



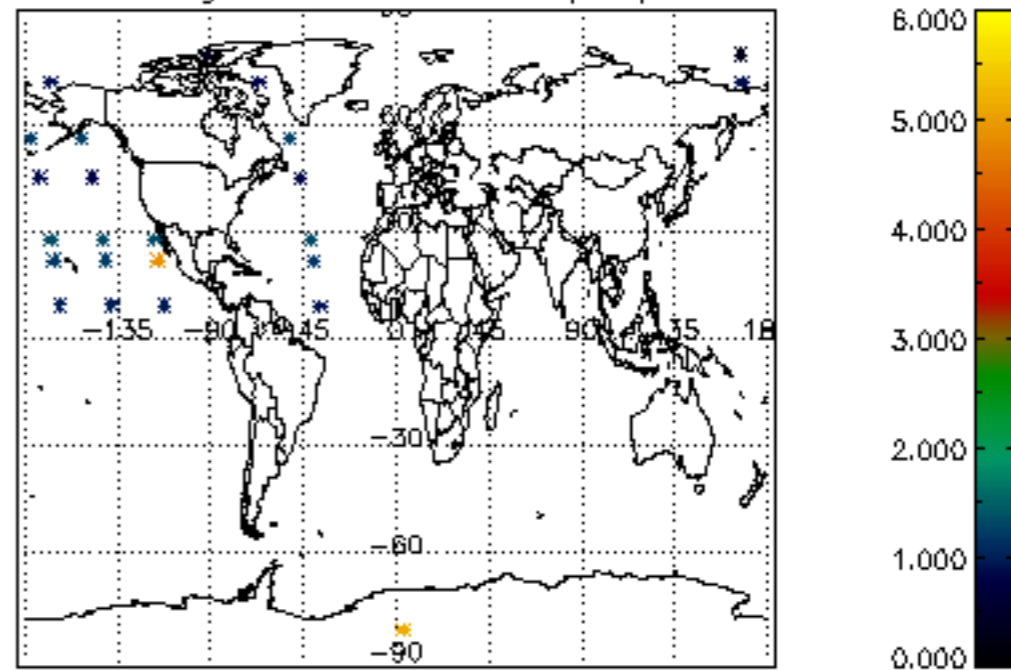




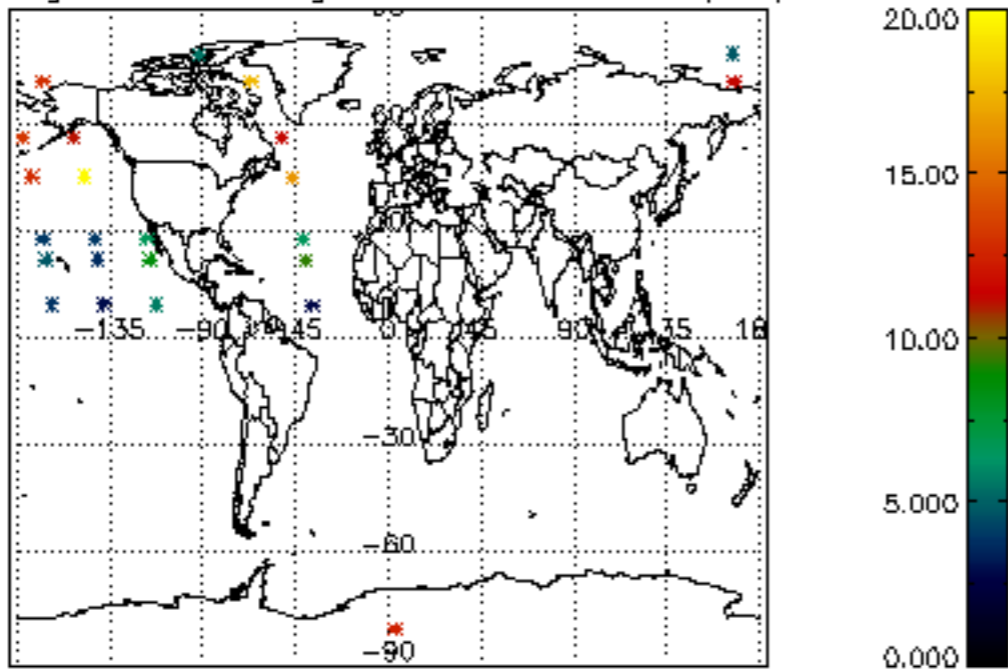
Percentage of cosmic ray hits per profile



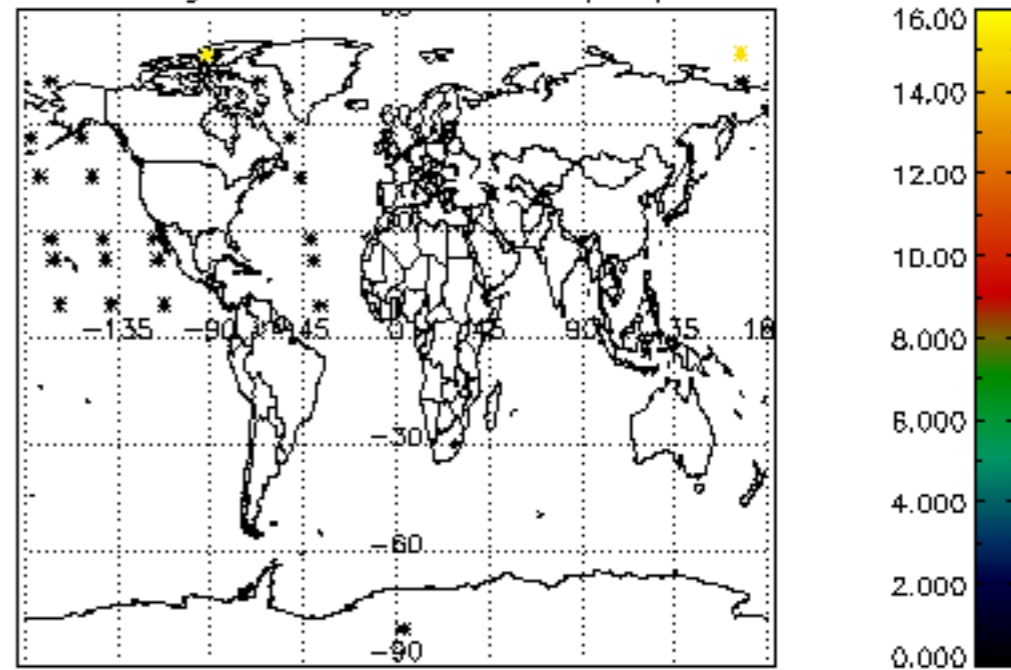
Percentage of datation errors per profile



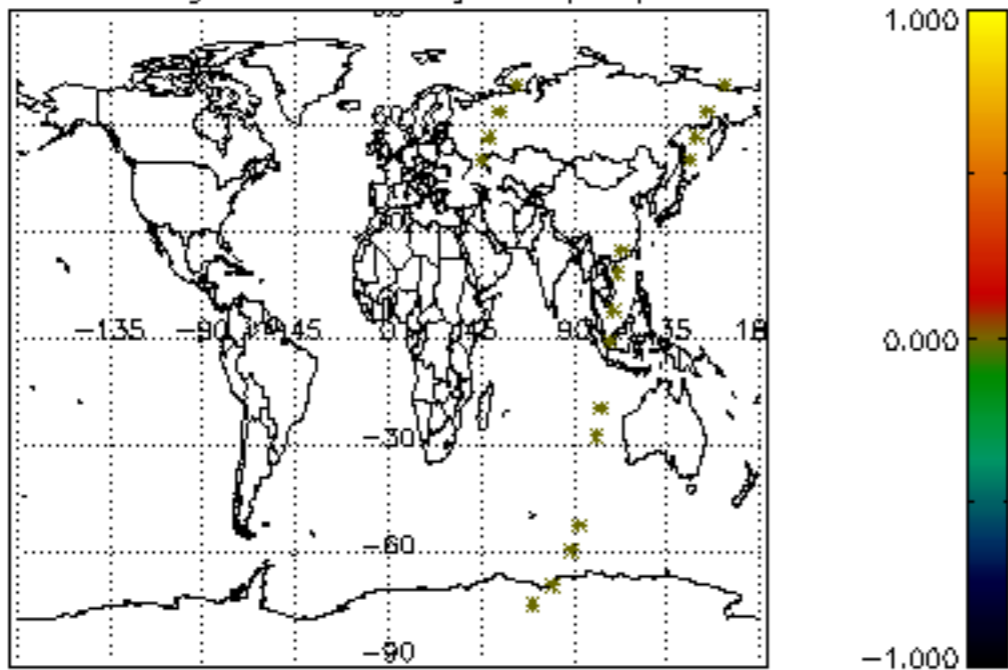
Percentage of star falling outside central band per profile



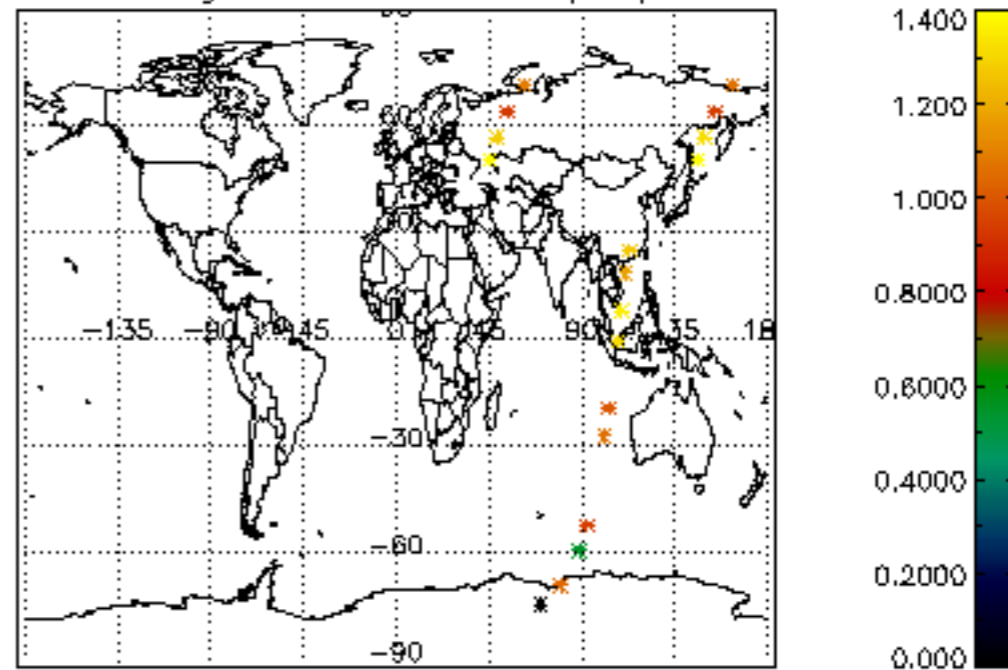
Percentage of saturation errors per profile



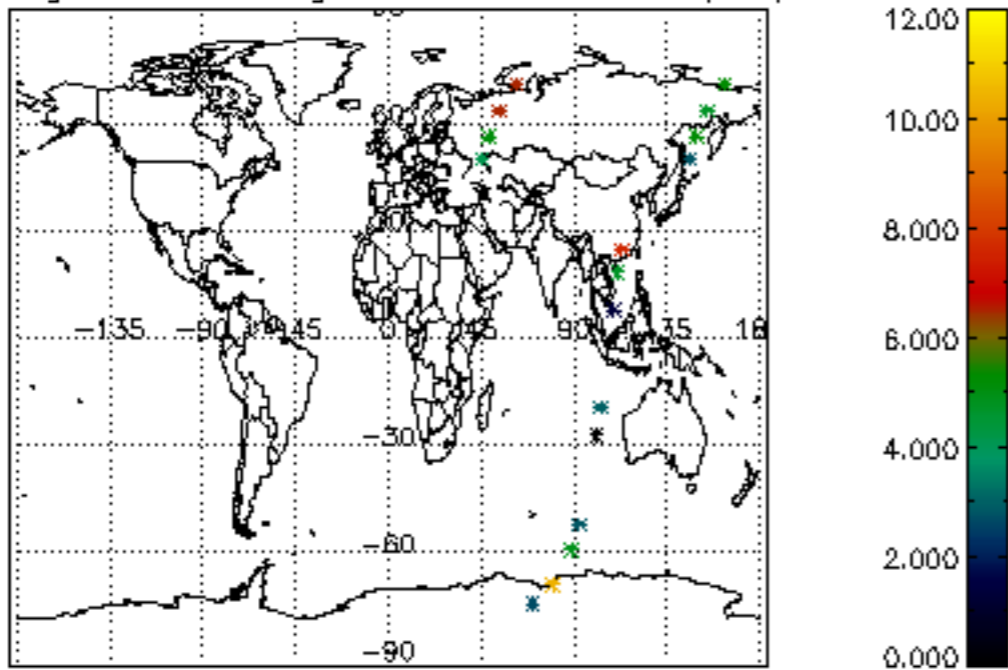
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

