

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	24APR2013 13:14:38
Data source version	GOMOS/6.01
Start time of products	05-05-2011 (05MAY2011 00:00:00)
Stop time of products	06-05-2011 (06MAY2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	282
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

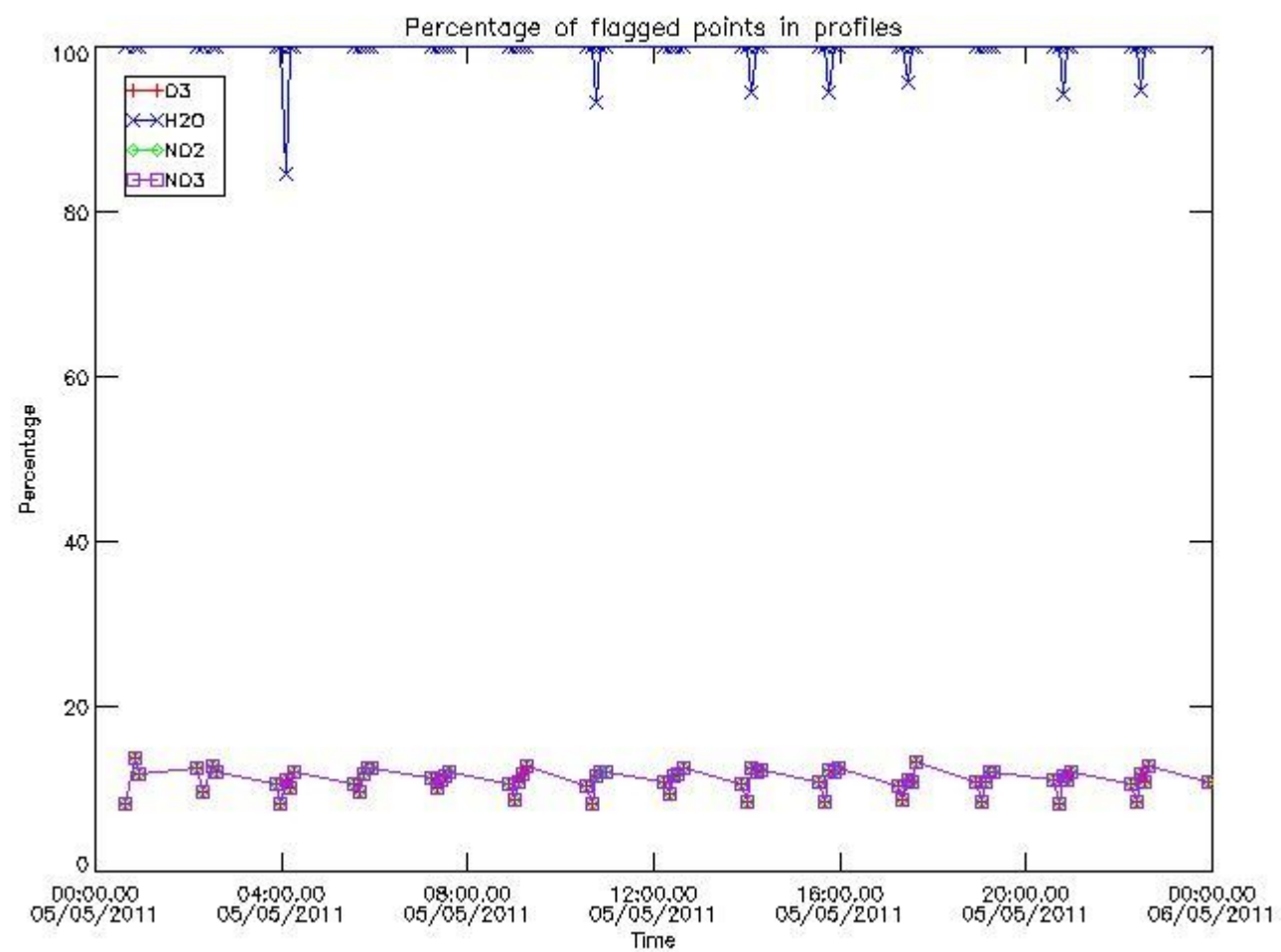
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110505_000505_000000383102_00131_47990_3360.N1	05-MAY-2011 00:05:05	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	47990	No
2	GOM_NL__2PRFIN20110505_001502_000000553102_00131_47990_3361.N1	05-MAY-2011 00:15:02	Bright	54.500	89	5Alp Cep	2.4510	8000.0	109	47990	No
3	GOM_NL__2PRFIN20110505_002722_000000563102_00131_47990_3362.N1	05-MAY-2011 00:27:22	Twilight	56.000	93	53Bet Peg	2.5200	3100.0	112	47990	No
4	GOM_NL__2PRFIN20110505_003128_000000463102_00131_47990_3363.N1	05-MAY-2011 00:31:28	Twilight	45.500	90	54Alp Peg	2.4870	11000.	91	47990	No
5	GOM_NL__2PRFIN20110505_003845_000000623102_00131_47990_3364.N1	05-MAY-2011 00:38:45	Dark	61.500	162	34Alp Aqr	2.9440	5350.0	123	47990	No
6	GOM_NL__2PRFIN20110505_005015_000000413102_00131_47990_3365.N1	05-MAY-2011 00:50:15	Dark	41.000	31	Alp Gru	1.7340	15200.	82	47990	No
7	GOM_NL__2PRFIN20110505_005548_000000433102_00132_47991_3347.N1	05-MAY-2011 00:55:48	Dark	43.000	45	Alp Pav	1.9400	26000.	86	47991	No
8	GOM_NL__2PRFIN20110505_010320_000000463102_00132_47991_3348.N1	05-MAY-2011 01:03:20	Straylight	45.500	141	Bet Ara	2.8400	4600.0	91	47991	No
9	GOM_NL__2PRFIN20110505_010524_000000523102_00132_47991_3349.N1	05-MAY-2011 01:05:24	Straylight	52.000	40	The Sco	1.8590	7100.0	104	47991	No
10	GOM_NL__2PRFIN20110505_010713_000000603102_00132_47991_3350.N1	05-MAY-2011 01:07:13	Straylight	59.500	25	35Lam Sco	1.6200	28000.	119	47991	No
11	GOM_NL__2PRFIN20110505_011004_000000593102_00132_47991_3351.N1	05-MAY-2011 01:10:04	Straylight	58.500	75	26Eps Sco	2.2910	4250.0	117	47991	No
12	GOM_NL__2PRFIN20110505_011335_000000693102_00132_47991_3352.N1	05-MAY-2011 01:13:35	Twilight	68.500	16	21Alp Sco	1.0200	3000.0	137	47991	No
13	GOM_NL__2PRFIN20110505_011538_000000613102_00132_47991_3353.N1	05-MAY-2011 01:15:38	Twilight	60.500	80	7Del Sco	2.3160	30000.	121	47991	No
14	GOM_NL__2PRFIN20110505_011836_000000433102_00132_47991_3354.N1	05-MAY-2011 01:18:36	Bright	43.000	122	9Alp2Lib	2.7470	9700.0	86	47991	No
15	GOM_NL__2PRFIN20110505_012043_000000453102_00132_47991_3355.N1	05-MAY-2011 01:20:43	Bright	45.000	104	27Bet Lib	2.6140	13100.	90	47991	No
16	GOM_NL__2PRFIN20110505_012901_000000383102_00132_47991_3356.N1	05-MAY-2011 01:29:01	Bright	37.500	111	8Eta Boo	2.6800	6000.0	75	47991	No
17	GOM_NL__2PRFIN20110505_013220_000000463102_00132_47991_3357.N1	05-MAY-2011 01:32:20	Bright	45.500	83		2.3780	11000.	91	47991	No
18	GOM_NL__2PRFIN20110505_013524_000000393102_00132_47991_3358.N1	05-MAY-2011 01:35:24	Bright	38.500	180	27Gam Boo	3.0400	8000.0	77	47991	No
19	GOM_NL__2PRFIN20110505_013752_000000373102_00132_47991_3359.N1	05-MAY-2011 01:37:52	Bright	36.500	39	85Eta UMa	1.8540	24000.	73	47991	No
20	GOM_NL__2PRFIN20110505_014518_000000363102_00132_47991_3360.N1	05-MAY-2011 01:45:18	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	47991	No
21	GOM_NL__2PRFIN20110505_015516_000000633102_00132_47991_3361.N1	05-MAY-2011 01:55:16	Bright	63.000	89	5Alp Cep	2.4510	8000.0	126	47991	No
22	GOM_NL__2PRFIN20110505_020736_000000523102_00132_47991_3362.N1	05-MAY-2011 02:07:36	Twilight	52.000	93	53Bet Peg	2.5200	3100.0	104	47991	No
23	GOM_NL__2PRFIN20110505_021143_000000453102_00132_47991_3363.N1	05-MAY-2011 02:11:43	Dark	44.500	90	54Alp Peg	2.4870	11000.	89	47991	No
24	GOM_NL__2PRFIN20110505_021900_000000533102_00132_47991_3364.N1	05-MAY-2011 02:19:00	Dark	53.000	162	34Alp Aqr	2.9440	5350.0	106	47991	No
25	GOM_NL__2PRFIN20110505_023030_000000443102_00132_47991_3365.N1	05-MAY-2011 02:30:30	Dark	44.000	31	Alp Gru	1.7340	15200.	88	47991	No
26	GOM_NL__2PRFIN20110505_023603_000000423102_00133_47992_3347.N1	05-MAY-2011 02:36:03	Dark	42.000	45	Alp Pav	1.9400	26000.	84	47992	No
27	GOM_NL__2PRFIN20110505_024333_000000503102_00133_47992_3348.N1	05-MAY-2011 02:43:33	Straylight	50.000	141	Bet Ara	2.8400	4600.0	100	47992	No
28	GOM_NL__2PRFIN20110505_024539_000000563102_00133_47992_3349.N1	05-MAY-2011 02:45:39	Straylight	55.500	40	The Sco	1.8590	7100.0	111	47992	No
29	GOM_NL__2PRFIN20110505_024727_000000573102_00133_47992_3350.N1	05-MAY-2011 02:47:27	Straylight	57.000	25	35Lam Sco	1.6200	28000.	114	47992	No
30	GOM_NL__2PRFIN20110505_025019_000000563102_00133_47992_3351.N1	05-MAY-2011 02:50:19	Straylight	56.000	75	26Eps Sco	2.2910	4250.0	112	47992	No
31	GOM_NL__2PRFIN20110505_025349_000000703102_00133_47992_3352.N1	05-MAY-2011 02:53:49	Twilight	70.000	16	21Alp Sco	1.0200	3000.0	140	47992	No
32	GOM_NL__2PRFIN20110505_025552_000000593102_00133_47992_3353.N1	05-MAY-2011 02:55:52	Twilight	58.500	80	7Del Sco	2.3160	30000.	117	47992	No
33	GOM_NL__2PRFIN20110505_025850_000000433102_00133_47992_3354.N1	05-MAY-2011 02:58:50	Bright	42.500	122	9Alp2Lib	2.7470	9700.0	85	47992	No
34	GOM_NL__2PRFIN20110505_030057_000000463102_00133_47992_3355.N1	05-MAY-2011 03:00:57	Bright	46.000	104	27Bet Lib	2.6140	13100.	92	47992	No
35	GOM_NL__2PRFIN20110505_030915_000000553102_00133_47992_3356.N1	05-MAY-2011 03:09:15	Bright	55.000	111	8Eta Boo	2.6800	6000.0	110	47992	No
36	GOM_NL__2PRFIN20110505_031234_000000473102_00133_47992_3357.N1	05-MAY-2011 03:12:34	Bright	46.500	83		2.3780	11000.	93	47992	No
37	GOM_NL__2PRFIN20110505_031537_000000463102_00133_47992_3358.N1	05-MAY-2011 03:15:37	Bright	45.500	180	27Gam Boo	3.0400	8000.0	91	47992	No
38	GOM_NL__2PRFIN20110505_031806_000000543102_00133_47992_3359.N1	05-MAY-2011 03:18:06	Bright	54.000	39	85Eta UMa	1.8540	24000.	108	47992	No
39	GOM_NL__2PRFIN20110505_032532_000000383102_00133_47992_3360.N1	05-MAY-2011 03:25:32	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	47992	No
40	GOM_NL__2PRFIN20110505_033530_000000433102_00133_47992_3361.N1	05-MAY-2011 03:35:30	Bright	42.500	89	5Alp Cep	2.4510	8000.0	85	47992	No
41	GOM_NL__2PRFIN20110505_034750_000000543102_00133_47992_3362.N1	05-MAY-2011 03:47:50	Twilight	54.000	93	53Bet Peg	2.5200	3100.0	108	47992	No
42	GOM_NL__2PRFIN20110505_035157_000000493102_00133_47992_3363.N1	05-MAY-2011 03:51:57	Dark	48.500	90	54Alp Peg	2.4870	11000.	97	47992	No

279	GOM_NL__2PRFIN20110505_232737_000000443102_00145_48004_3380.N1	05-MAY-2011 23:27:37	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	48004	No
280	GOM_NL__2PRFIN20110505_233814_000000443102_00145_48004_3381.N1	05-MAY-2011 23:38:14	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	48004	No
281	GOM_NL__2PRFIN20110505_235040_000000553102_00145_48004_3382.N1	05-MAY-2011 23:50:40	Twilight_stray	55.000	93	53Bet Peg	2.5200	3100.0	110	48004	No
282	GOM_NL__2PRFIN20110505_235450_000000483102_00145_48004_3383.N1	05-MAY-2011 23:54:50	Dark	47.500	90	54Alp Peg	2.4870	11000.	95	48004	No

3. Quality information per product

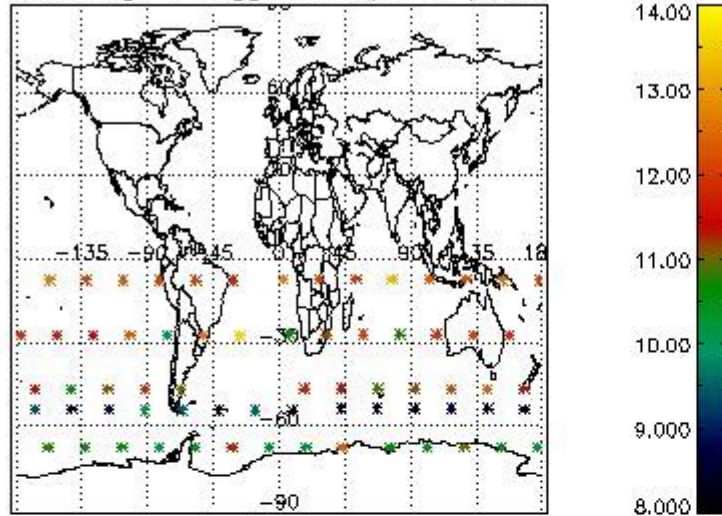
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

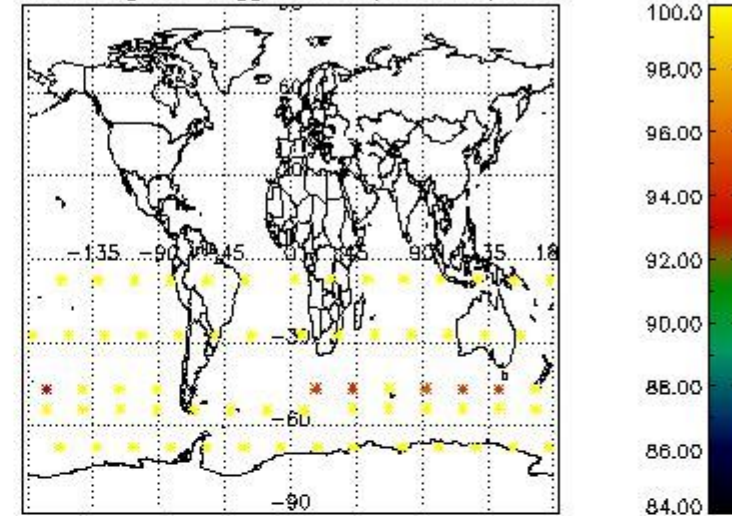


3.2 Plot quality information per product (world map)

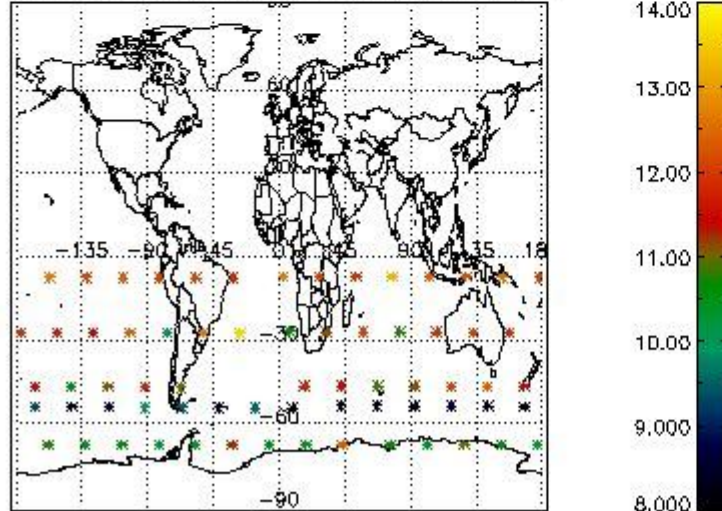
Percentage of flagged data per O3 profile



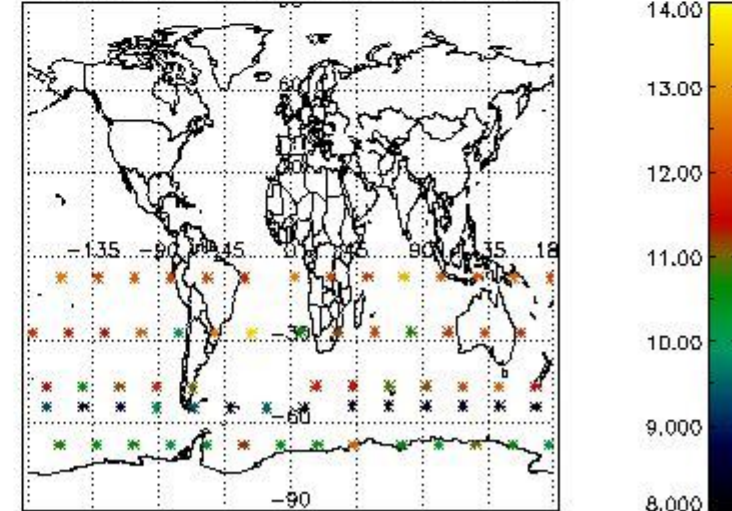
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

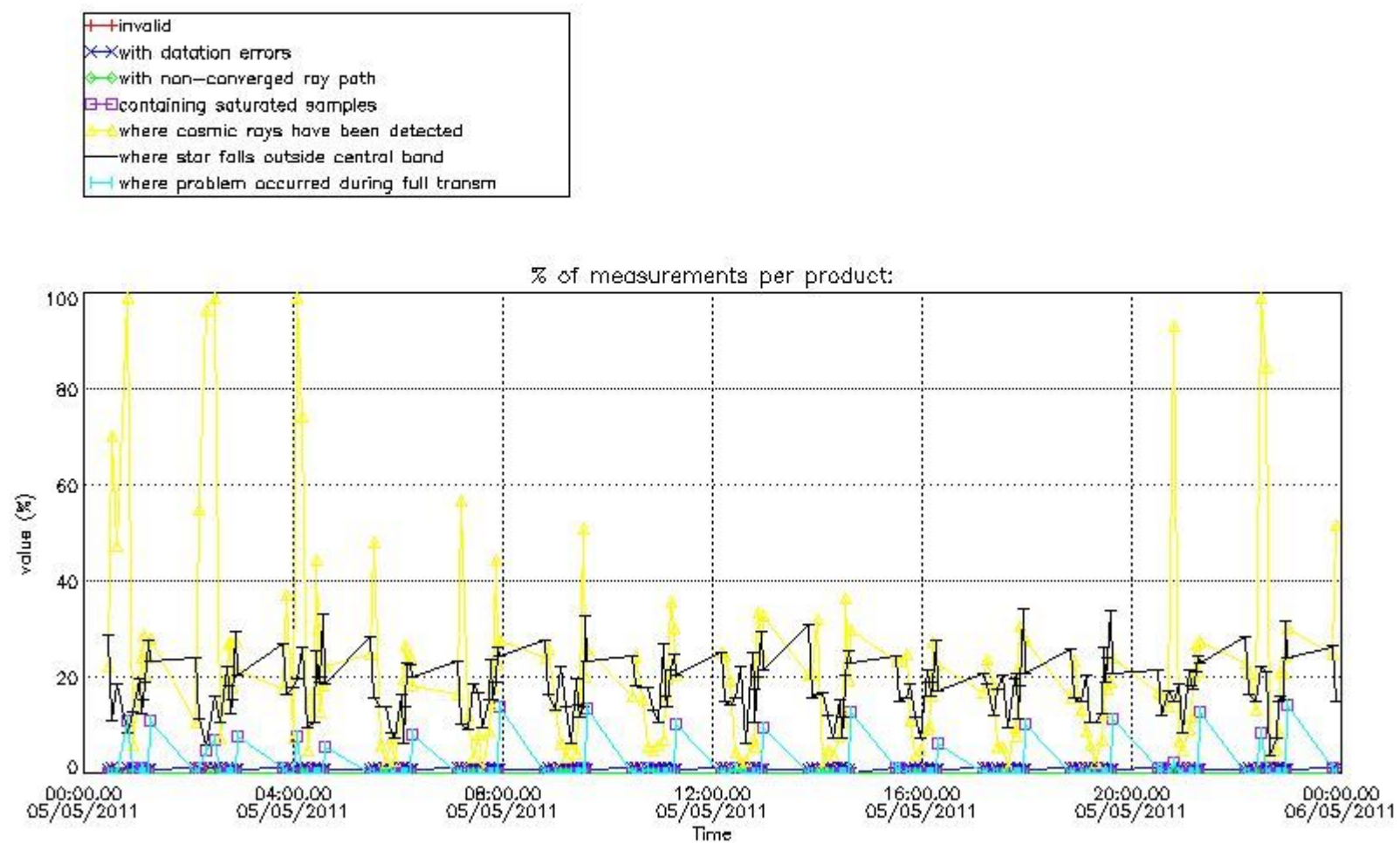


4. Level 1 quality information per product

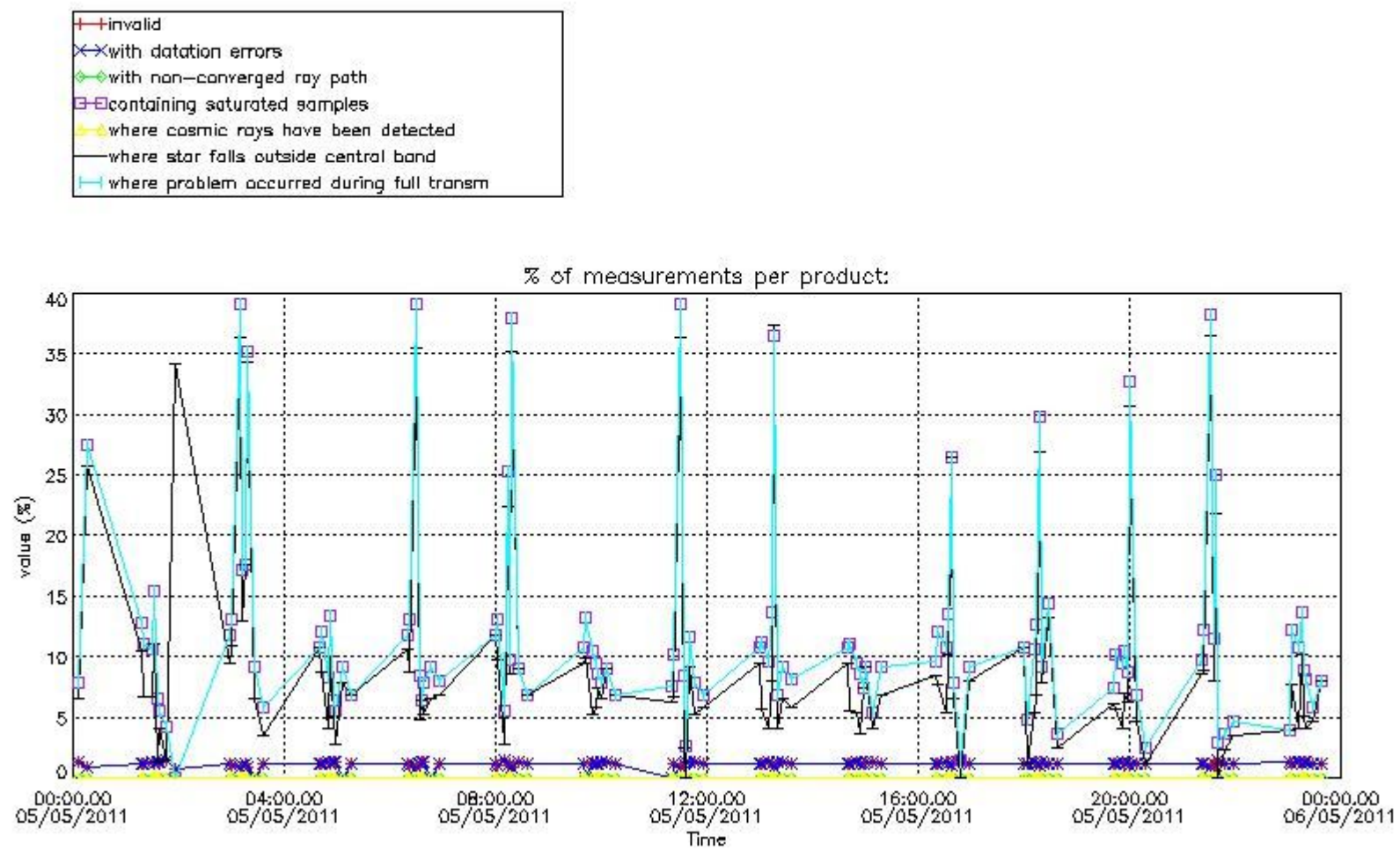
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

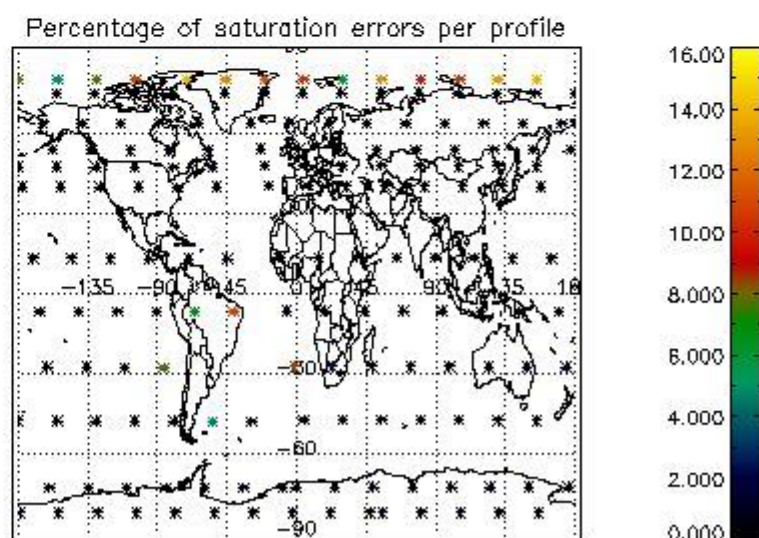
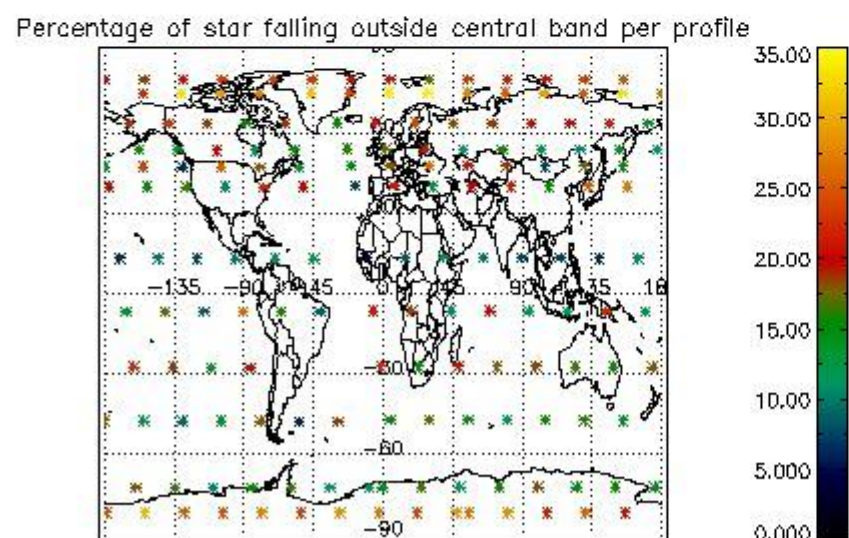
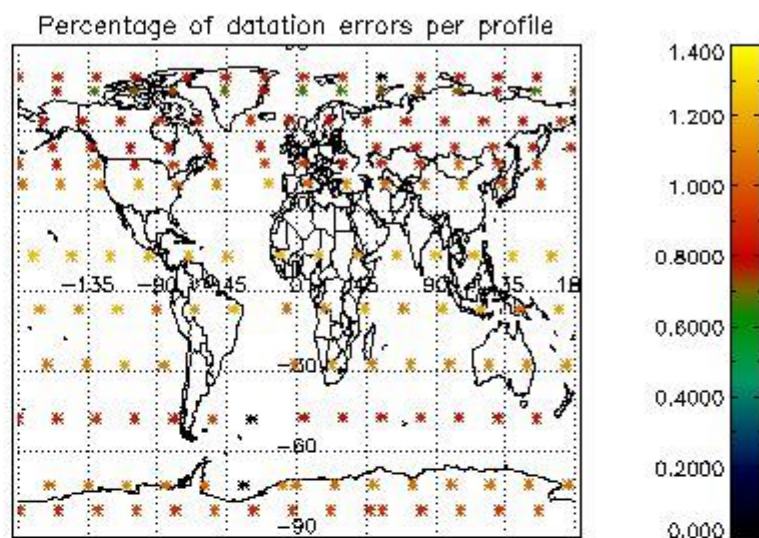
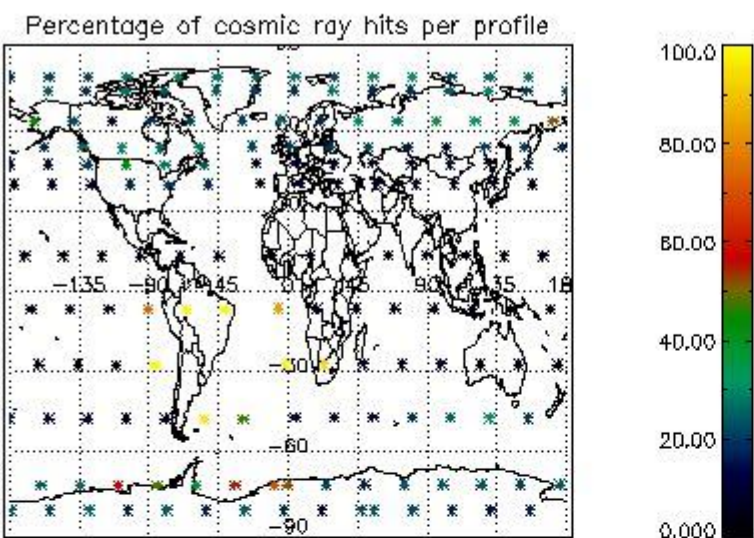


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

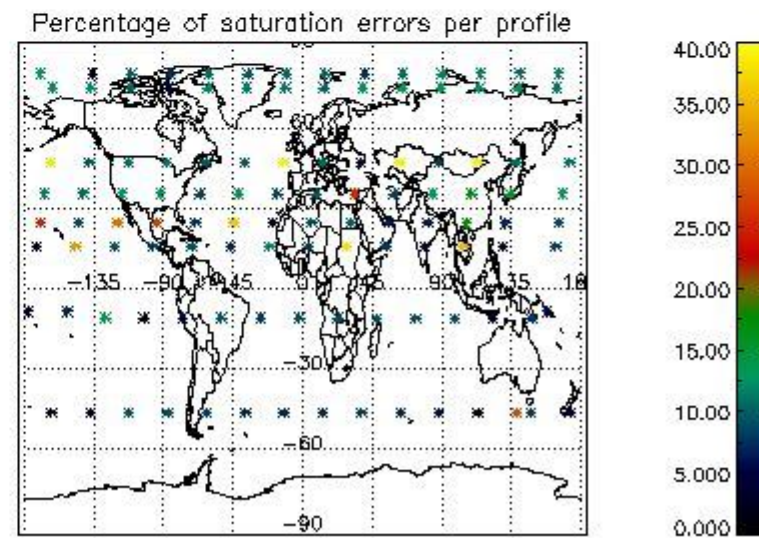
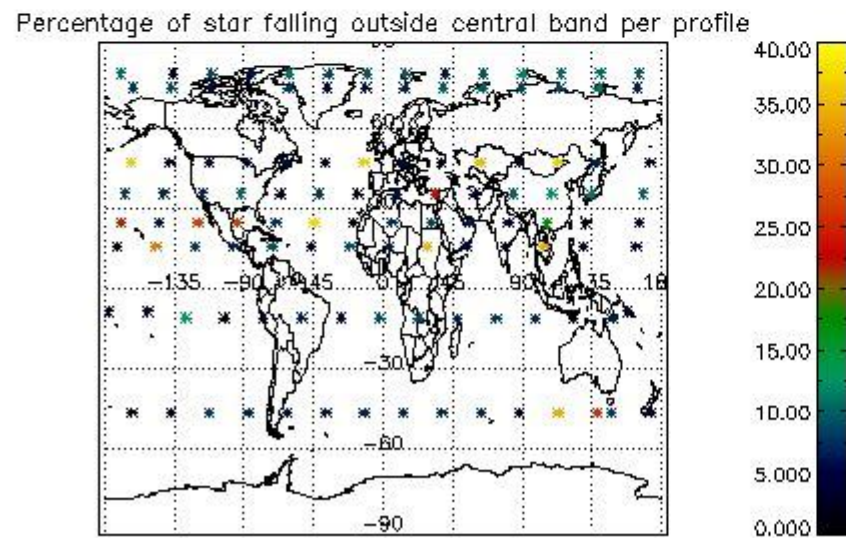
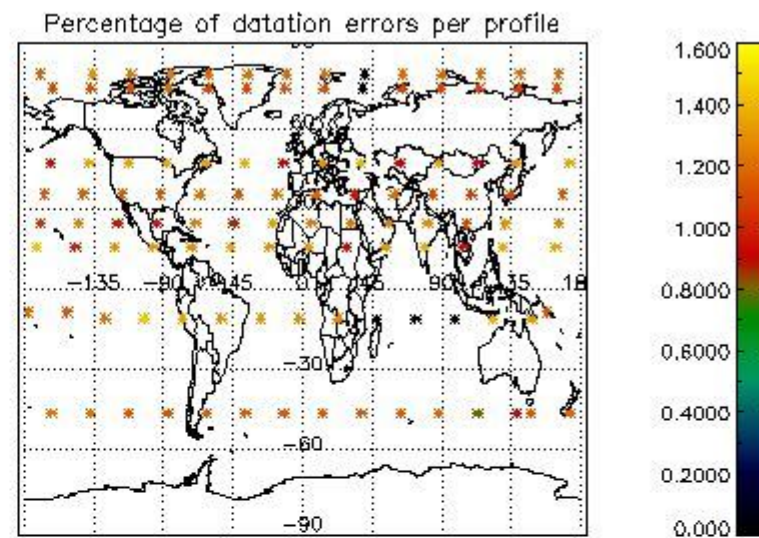
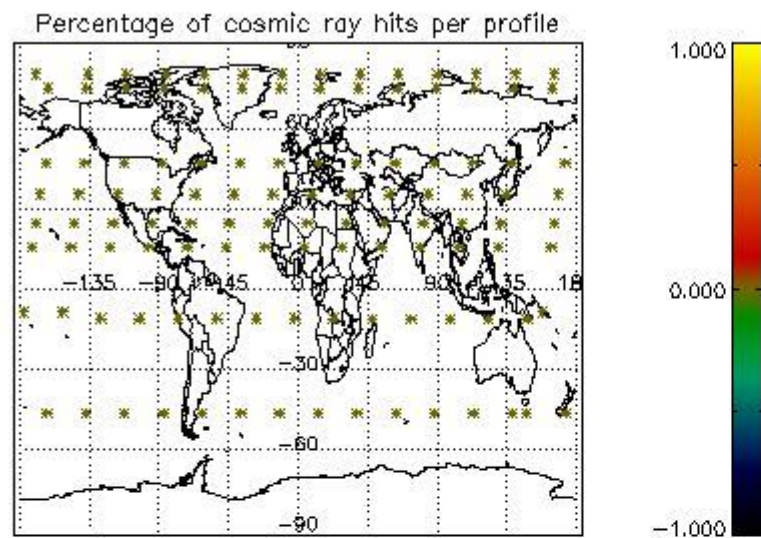


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

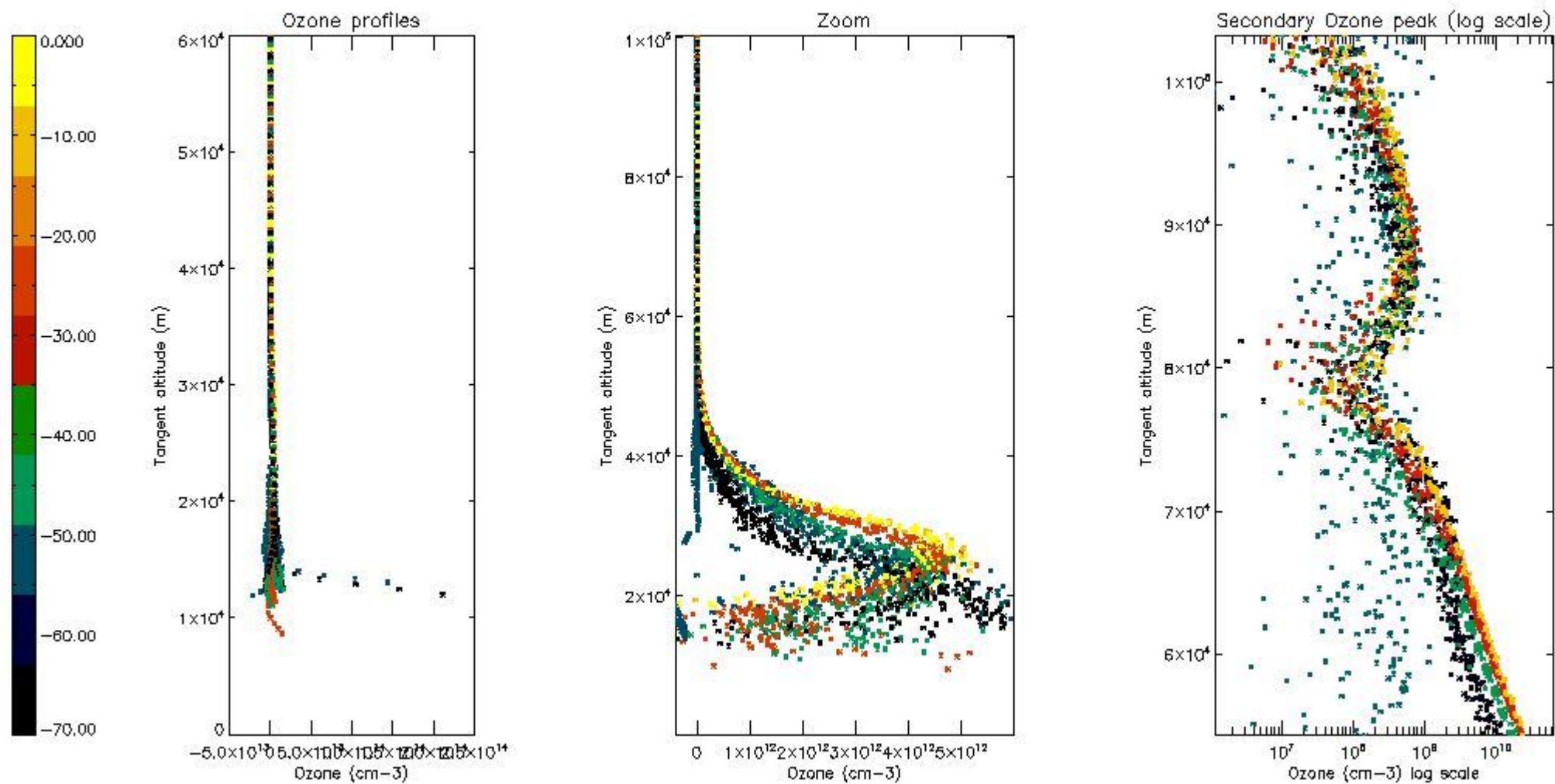
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	24
STD < 20	12

STD < 10	9
STD < 5	5

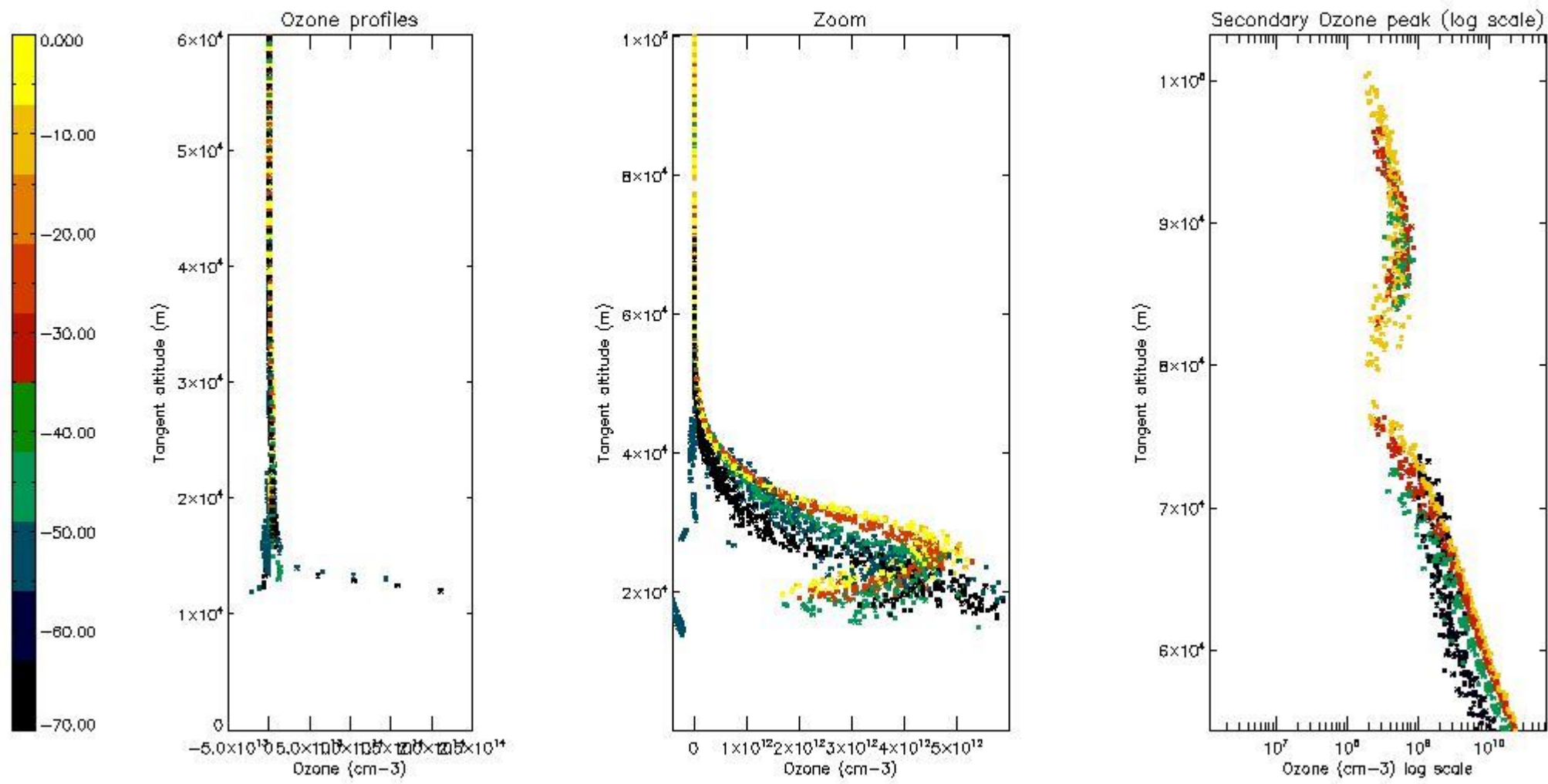
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



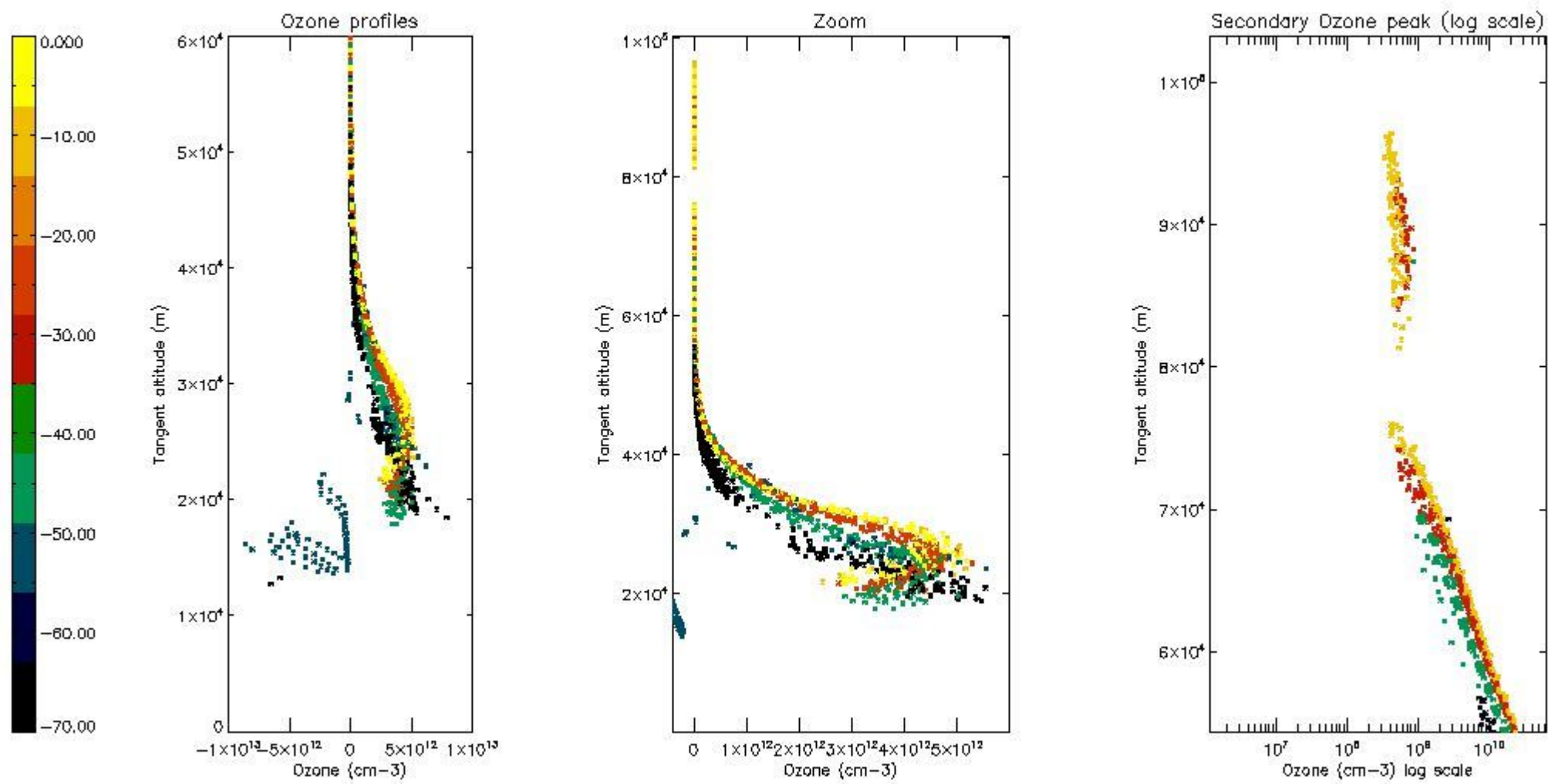
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



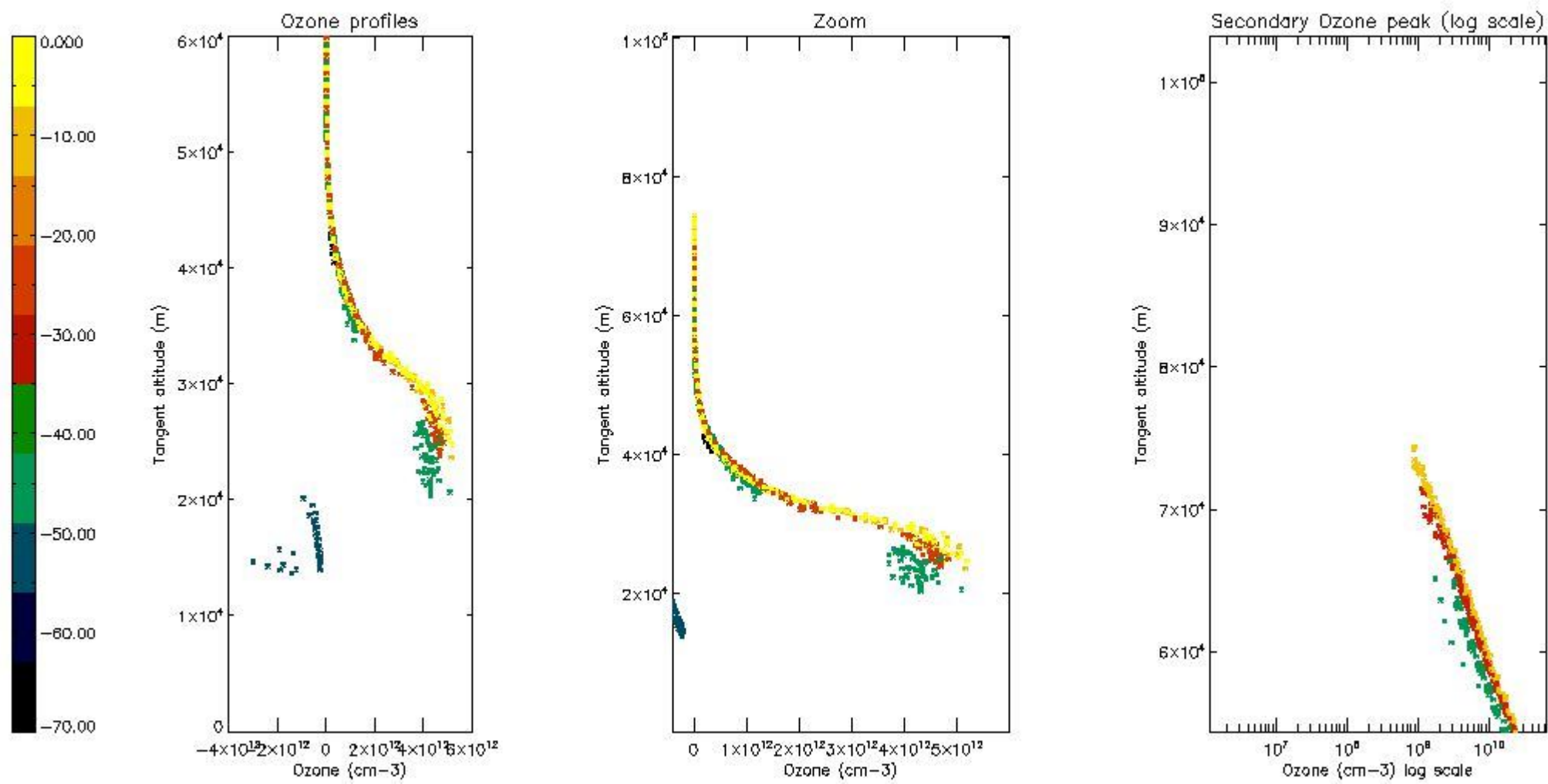
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



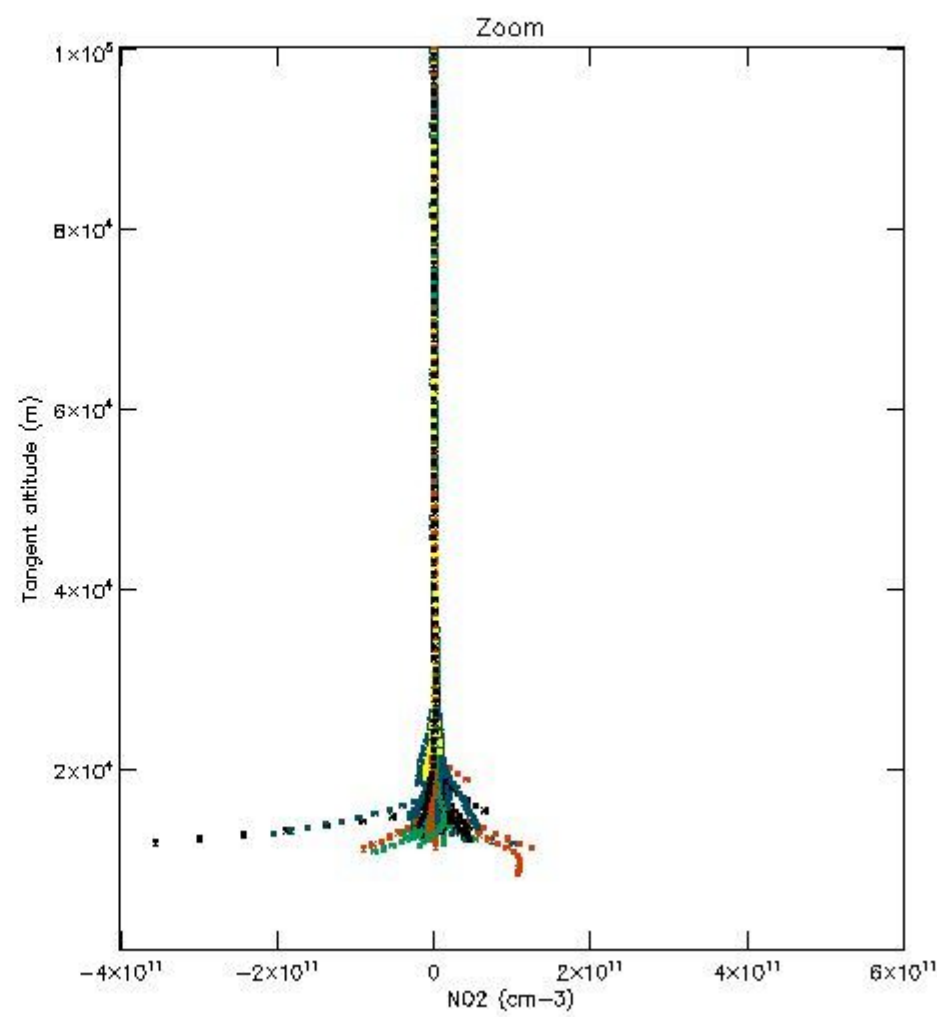
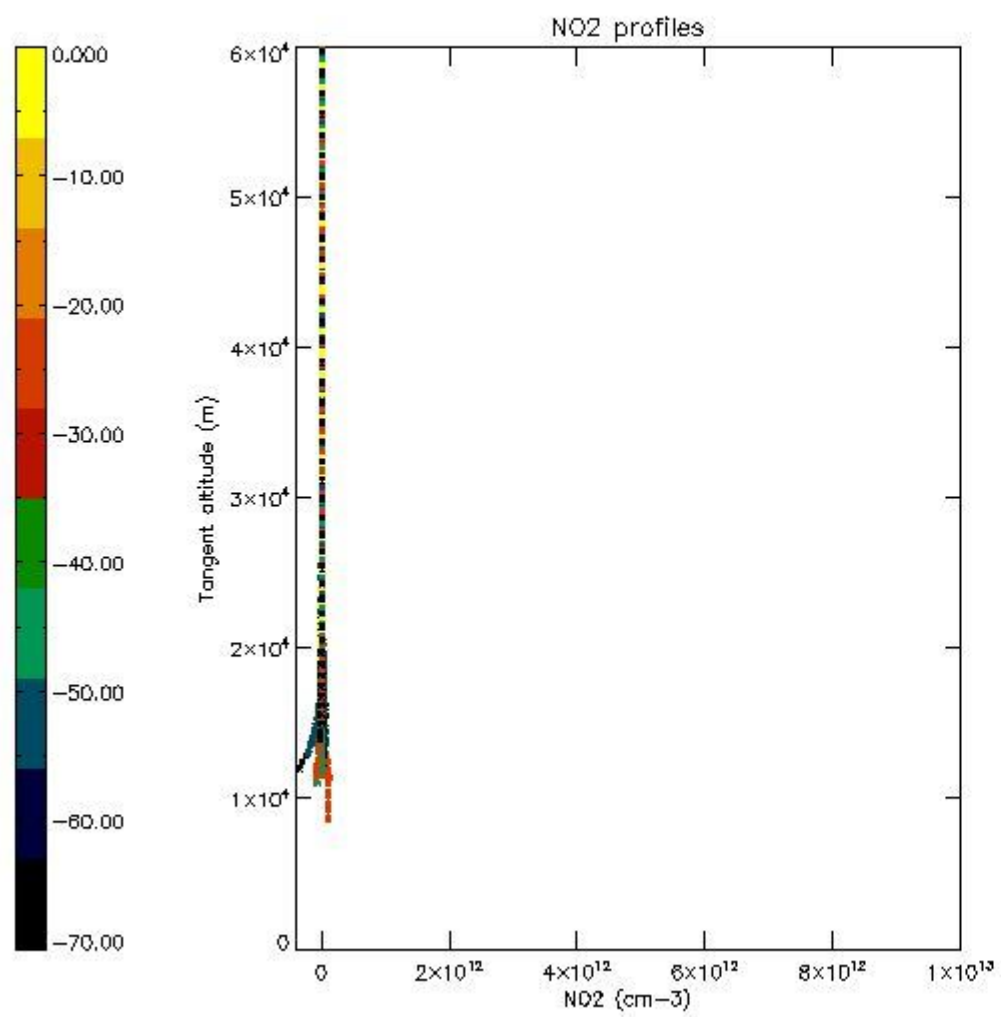
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



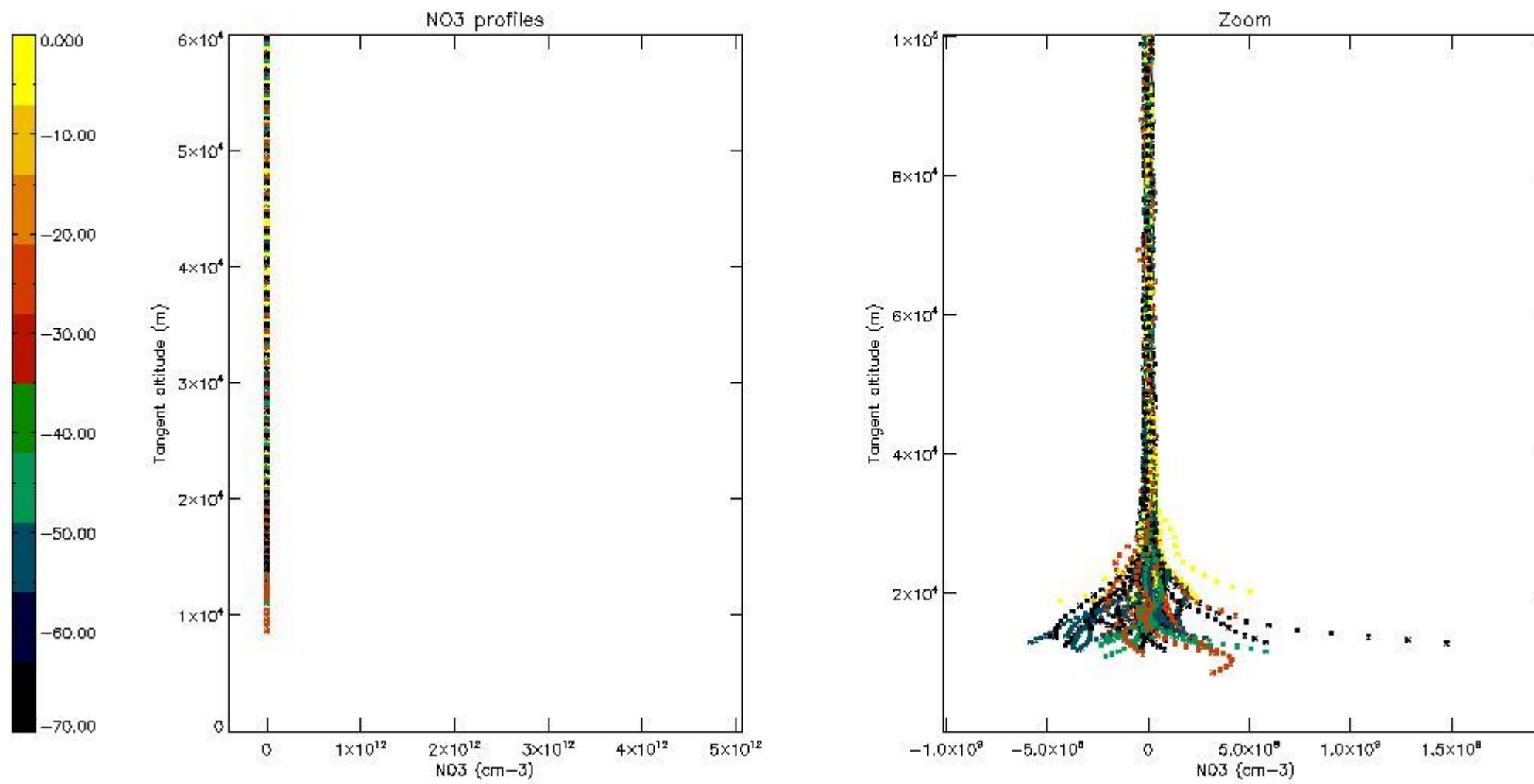
5.6 Plot NO₂ profiles for all STD (dark without errors)

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_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	05-MAY-2011 00:05:05
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	05-MAY-2011 00:05:05
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	05-MAY-2011 00:05:05

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2. Summary of processed GOM_NL__2P products.

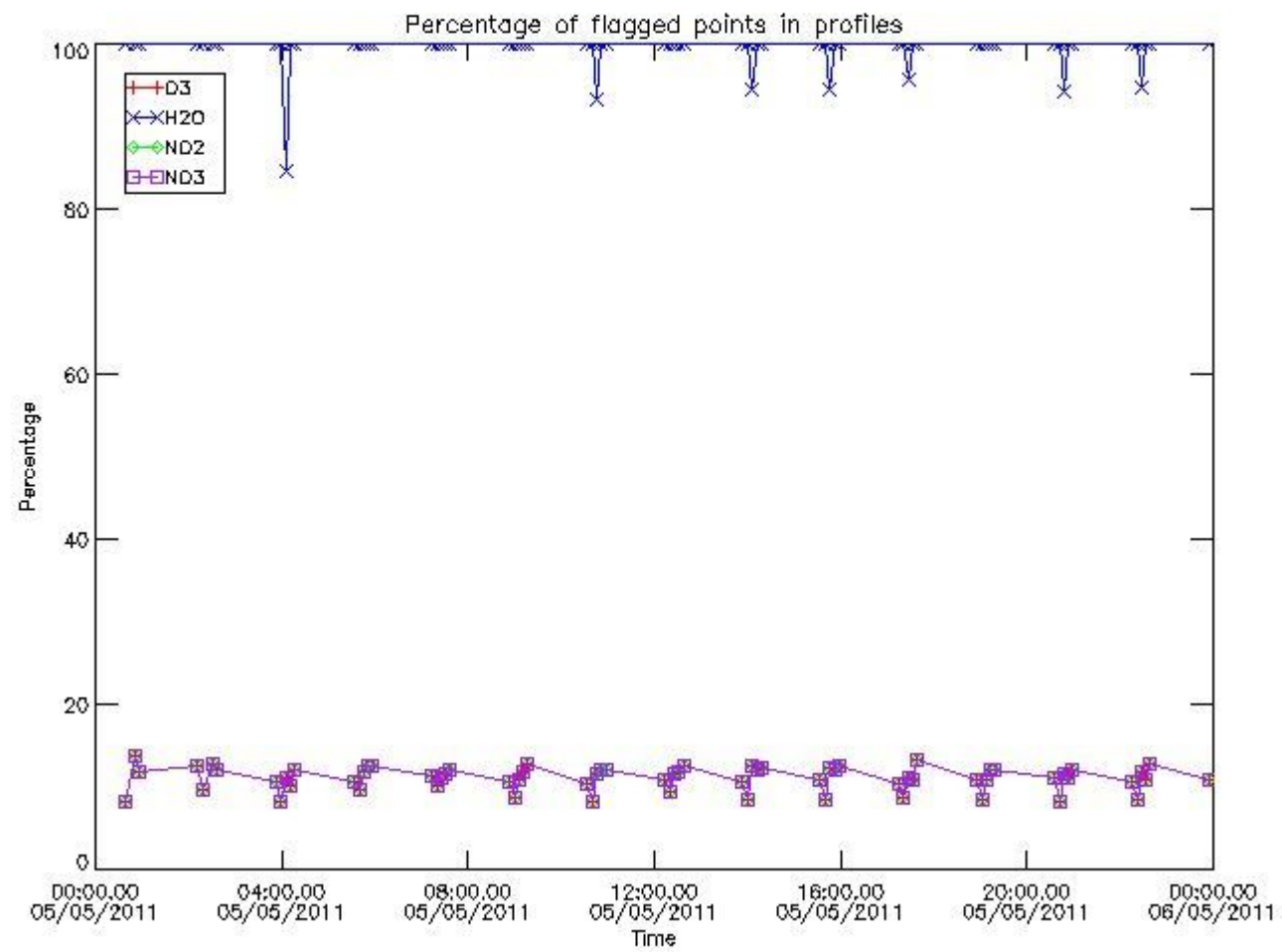
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110505_000505_000000383102_00131_47990_3360.N1	05-MAY-2011 00:05:05	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	47990	No
2	GOM_NL__2PRFIN20110505_001502_000000553102_00131_47990_3361.N1	05-MAY-2011 00:15:02	Bright	54.500	89	5Alp Cep	2.4510	8000.0	109	47990	No
3	GOM_NL__2PRFIN20110505_002722_000000563102_00131_47990_3362.N1	05-MAY-2011 00:27:22	Twilight	56.000	93	53Bet Peg	2.5200	3100.0	112	47990	No
4	GOM_NL__2PRFIN20110505_003128_000000463102_00131_47990_3363.N1	05-MAY-2011 00:31:28	Twilight	45.500	90	54Alp Peg	2.4870	11000.	91	47990	No
5	GOM_NL__2PRFIN20110505_003845_000000623102_00131_47990_3364.N1	05-MAY-2011 00:38:45	Dark	61.500	162	34Alp Aqr	2.9440	5350.0	123	47990	No
6	GOM_NL__2PRFIN20110505_005015_000000413102_00131_47990_3365.N1	05-MAY-2011 00:50:15	Dark	41.000	31	Alp Gru	1.7340	15200.	82	47990	No
7	GOM_NL__2PRFIN20110505_005548_000000433102_00132_47991_3347.N1	05-MAY-2011 00:55:48	Dark	43.000	45	Alp Pav	1.9400	26000.	86	47991	No
8	GOM_NL__2PRFIN20110505_010320_000000463102_00132_47991_3348.N1	05-MAY-2011 01:03:20	Straylight	45.500	141	Bet Ara	2.8400	4600.0	91	47991	No
9	GOM_NL__2PRFIN20110505_010524_000000523102_00132_47991_3349.N1	05-MAY-2011 01:05:24	Straylight	52.000	40	The Sco	1.8590	7100.0	104	47991	No
10	GOM_NL__2PRFIN20110505_010713_000000603102_00132_47991_3350.N1	05-MAY-2011 01:07:13	Straylight	59.500	25	35Lam Sco	1.6200	28000.	119	47991	No
11	GOM_NL__2PRFIN20110505_011004_000000593102_00132_47991_3351.N1	05-MAY-2011 01:10:04	Straylight	58.500	75	26Eps Sco	2.2910	4250.0	117	47991	No
12	GOM_NL__2PRFIN20110505_011335_000000693102_00132_47991_3352.N1	05-MAY-2011 01:13:35	Twilight	68.500	16	21Alp Sco	1.0200	3000.0	137	47991	No
13	GOM_NL__2PRFIN20110505_011538_000000613102_00132_47991_3353.N1	05-MAY-2011 01:15:38	Twilight	60.500	80	7Del Sco	2.3160	30000.	121	47991	No
14	GOM_NL__2PRFIN20110505_011836_000000433102_00132_47991_3354.N1	05-MAY-2011 01:18:36	Bright	43.000	122	9Alp2Lib	2.7470	9700.0	86	47991	No
15	GOM_NL__2PRFIN20110505_012043_000000453102_00132_47991_3355.N1	05-MAY-2011 01:20:43	Bright	45.000	104	27Bet Lib	2.6140	13100.	90	47991	No
16	GOM_NL__2PRFIN20110505_012901_000000383102_00132_47991_3356.N1	05-MAY-2011 01:29:01	Bright	37.500	111	8Eta Boo	2.6800	6000.0	75	47991	No
17	GOM_NL__2PRFIN20110505_013220_000000463102_00132_47991_3357.N1	05-MAY-2011 01:32:20	Bright	45.500	83		2.3780	11000.	91	47991	No
18	GOM_NL__2PRFIN20110505_013524_000000393102_00132_47991_3358.N1	05-MAY-2011 01:35:24	Bright	38.500	180	27Gam Boo	3.0400	8000.0	77	47991	No
19	GOM_NL__2PRFIN20110505_013752_000000373102_00132_47991_3359.N1	05-MAY-2011 01:37:52	Bright	36.500	39	85Eta UMa	1.8540	24000.	73	47991	No
20	GOM_NL__2PRFIN20110505_014518_000000363102_00132_47991_3360.N1	05-MAY-2011 01:45:18	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	47991	No
21	GOM_NL__2PRFIN20110505_015516_000000633102_00132_47991_3361.N1	05-MAY-2011 01:55:16	Bright	63.000	89	5Alp Cep	2.4510	8000.0	126	47991	No
22	GOM_NL__2PRFIN20110505_020736_000000523102_00132_47991_3362.N1	05-MAY-2011 02:07:36	Twilight	52.000	93	53Bet Peg	2.5200	3100.0	104	47991	No
23	GOM_NL__2PRFIN20110505_021143_000000453102_00132_47991_3363.N1	05-MAY-2011 02:11:43	Dark	44.500	90	54Alp Peg	2.4870	11000.	89	47991	No
24	GOM_NL__2PRFIN20110505_021900_000000533102_00132_47991_3364.N1	05-MAY-2011 02:19:00	Dark	53.000	162	34Alp Aqr	2.9440	5350.0	106	47991	No
25	GOM_NL__2PRFIN20110505_023030_000000443102_00132_47991_3365.N1	05-MAY-2011 02:30:30	Dark	44.000	31	Alp Gru	1.7340	15200.	88	47991	No
26	GOM_NL__2PRFIN20110505_023603_000000423102_00133_47992_3347.N1	05-MAY-2011 02:36:03	Dark	42.000	45	Alp Pav	1.9400	26000.	84	47992	No
27	GOM_NL__2PRFIN20110505_024333_000000503102_00133_47992_3348.N1	05-MAY-2011 02:43:33	Straylight	50.000	141	Bet Ara	2.8400	4600.0	100	47992	No
28	GOM_NL__2PRFIN20110505_024539_000000563102_00133_47992_3349.N1	05-MAY-2011 02:45:39	Straylight	55.500	40	The Sco	1.8590	7100.0	111	47992	No
29	GOM_NL__2PRFIN20110505_024727_000000573102_00133_47992_3350.N1	05-MAY-2011 02:47:27	Straylight	57.000	25	35Lam Sco	1.6200	28000.	114	47992	No
30	GOM_NL__2PRFIN20110505_025019_000000563102_00133_47992_3351.N1	05-MAY-2011 02:50:19	Straylight	56.000	75	26Eps Sco	2.2910	4250.0	112	47992	No
31	GOM_NL__2PRFIN20110505_025349_000000703102_00133_47992_3352.N1	05-MAY-2011 02:53:49	Twilight	70.000	16	21Alp Sco	1.0200	3000.0	140	47992	No
32	GOM_NL__2PRFIN20110505_025552_000000593102_00133_47992_3353.N1	05-MAY-2011 02:55:52	Twilight	58.500	80	7Del Sco	2.3160	30000.	117	47992	No
33	GOM_NL__2PRFIN20110505_025850_000000433102_00133_47992_3354.N1	05-MAY-2011 02:58:50	Bright	42.500	122	9Alp2Lib	2.7470	9700.0	85	47992	No
34	GOM_NL__2PRFIN20110505_030057_000000463102_00133_47992_3355.N1	05-MAY-2011 03:00:57	Bright	46.000	104	27Bet Lib	2.6140	13100.	92	47992	No
35	GOM_NL__2PRFIN20110505_030915_000000553102_00133_47992_3356.N1	05-MAY-2011 03:09:15	Bright	55.000	111	8Eta Boo	2.6800	6000.0	110	47992	No
36	GOM_NL__2PRFIN20110505_031234_000000473102_00133_47992_3357.N1	05-MAY-2011 03:12:34	Bright	46.500	83		2.3780	11000.	93	47992	No
37	GOM_NL__2PRFIN20110505_031537_000000463102_00133_47992_3358.N1	05-MAY-2011 03:15:37	Bright	45.500	180	27Gam Boo	3.0400	8000.0	91	47992	No
38	GOM_NL__2PRFIN20110505_031806_000000543102_00133_47992_3359.N1	05-MAY-2011 03:18:06	Bright	54.000	39	85Eta UMa	1.8540	24000.	108	47992	No
39	GOM_NL__2PRFIN20110505_032532_000000383102_00133_47992_3360.N1	05-MAY-2011 03:25:32	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	47992	No
40	GOM_NL__2PRFIN20110505_033530_000000433102_00133_47992_3361.N1	05-MAY-2011 03:35:30	Bright	42.500	89	5Alp Cep	2.4510	8000.0	85	47992	No
41	GOM_NL__2PRFIN20110505_034750_000000543102_00133_47992_3362.N1	05-MAY-2011 03:47:50	Twilight	54.000	93	53Bet Peg	2.5200	3100.0	108	47992	No
42	GOM_NL__2PRFIN20110505_035157_000000493102_00133_47992_3363.N1	05-MAY-2011 03:51:57	Dark	48.500	90	54Alp Peg	2.4870	11000.	97	47992	No

279	GOM_NL__2PRFIN20110505_232737_000000443102_00145_48004_3380.N1	05-MAY-2011 23:27:37	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	48004	No
280	GOM_NL__2PRFIN20110505_233814_000000443102_00145_48004_3381.N1	05-MAY-2011 23:38:14	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	48004	No
281	GOM_NL__2PRFIN20110505_235040_000000553102_00145_48004_3382.N1	05-MAY-2011 23:50:40	Twilight_stray	55.000	93	53Bet Peg	2.5200	3100.0	110	48004	No
282	GOM_NL__2PRFIN20110505_235450_000000483102_00145_48004_3383.N1	05-MAY-2011 23:54:50	Dark	47.500	90	54Alp Peg	2.4870	11000.	95	48004	No

3. Quality information per product

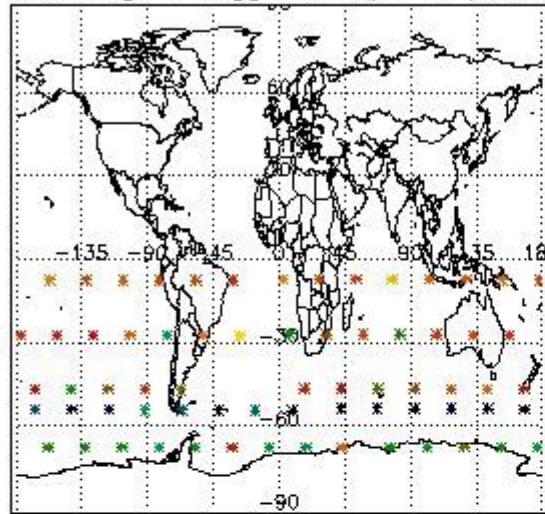
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

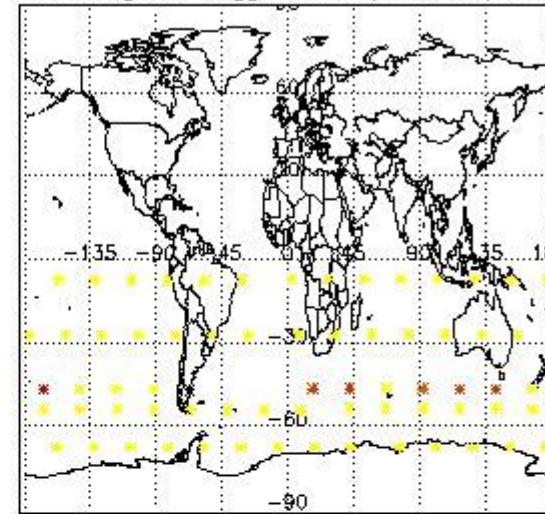


3.2 Plot quality information per product (world map)

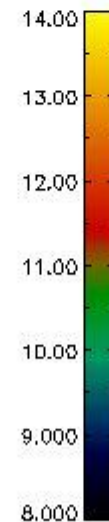
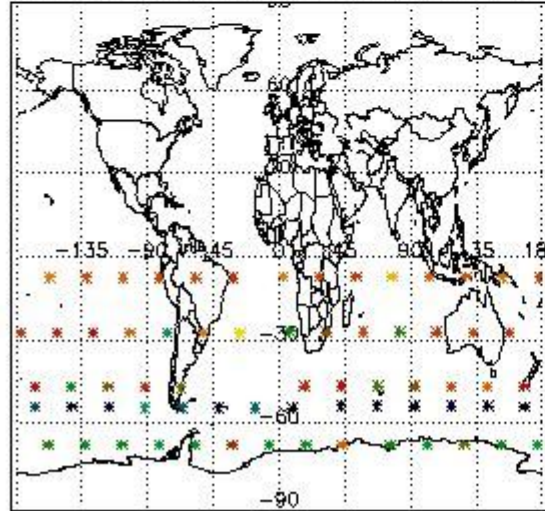
Percentage of flagged data per O3 profile



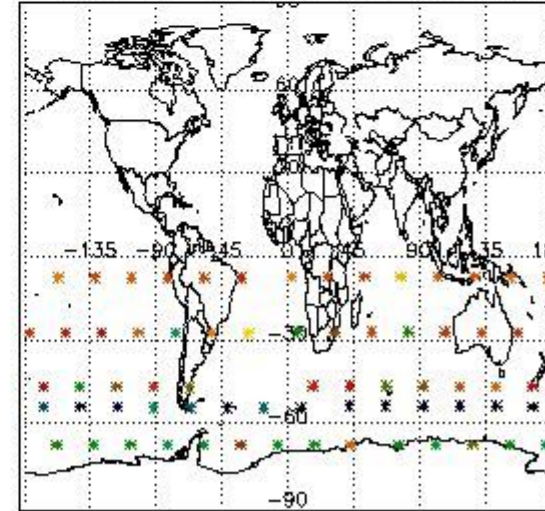
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

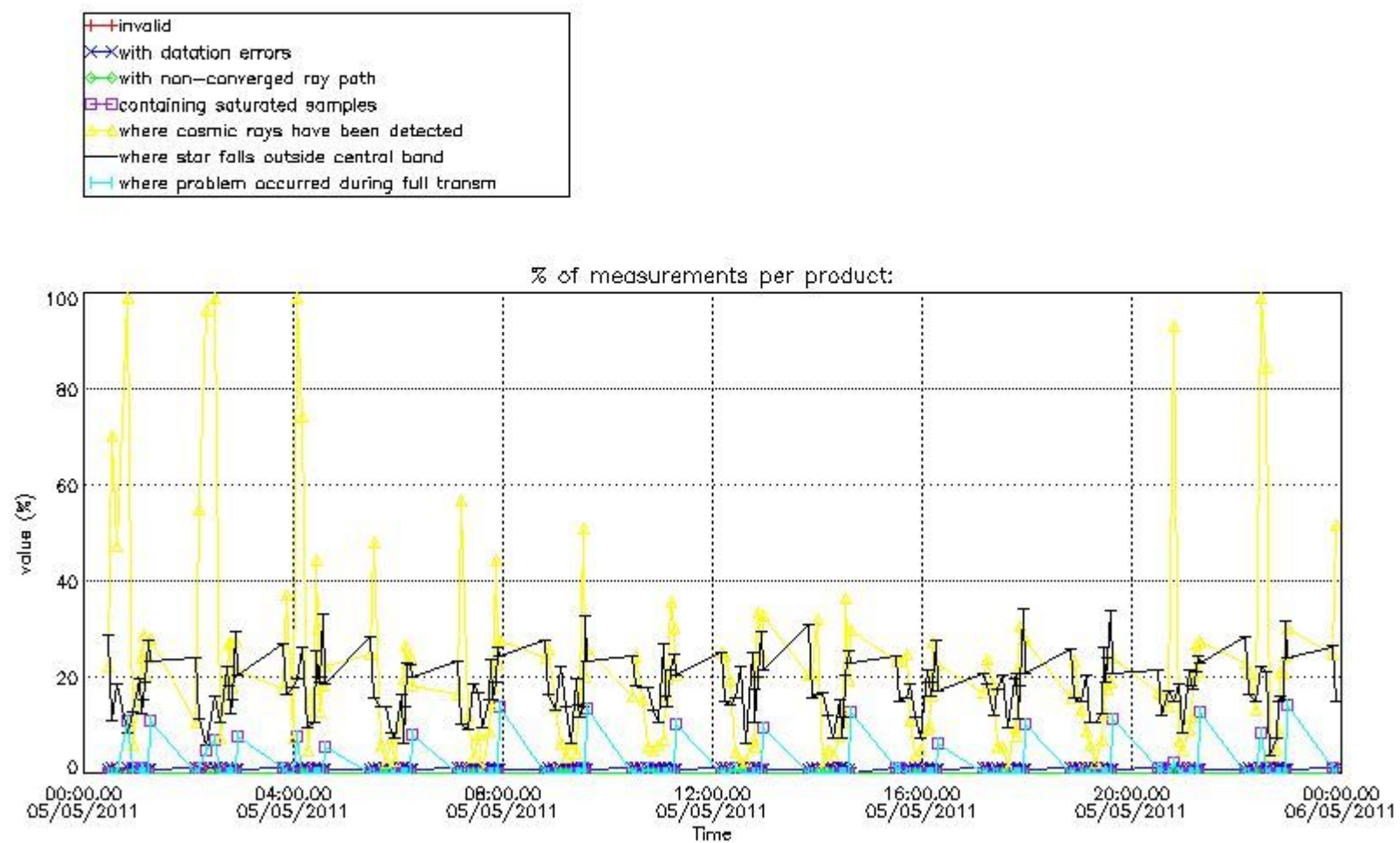


4. Level 1 quality information per product

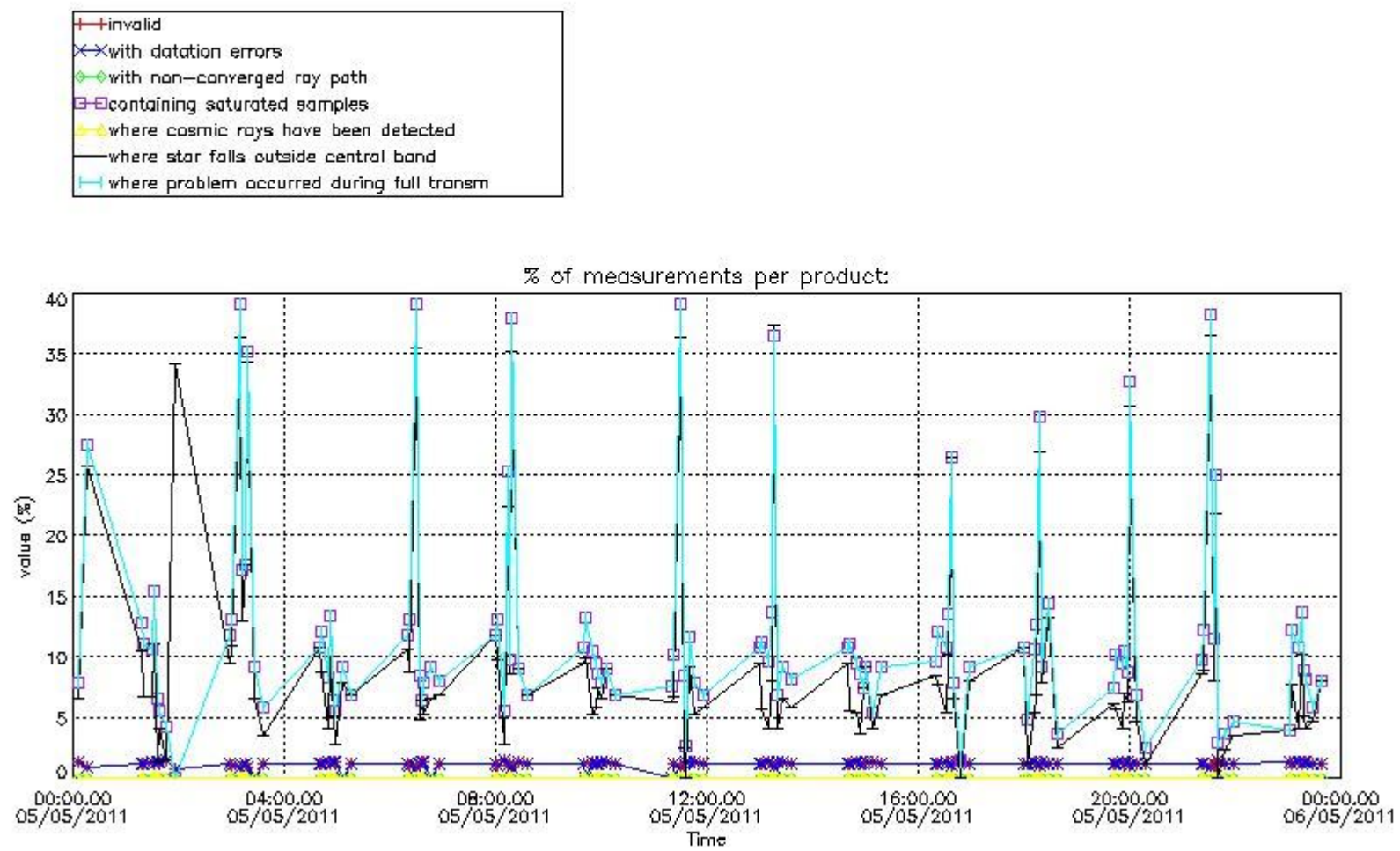
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

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

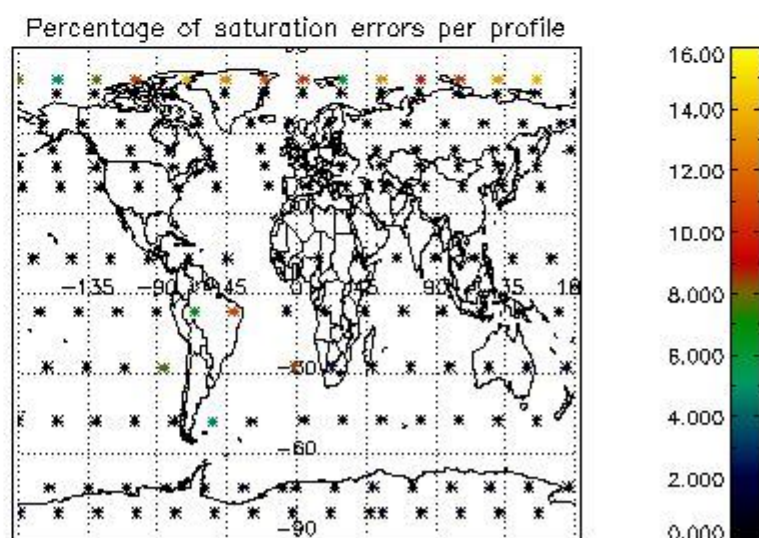
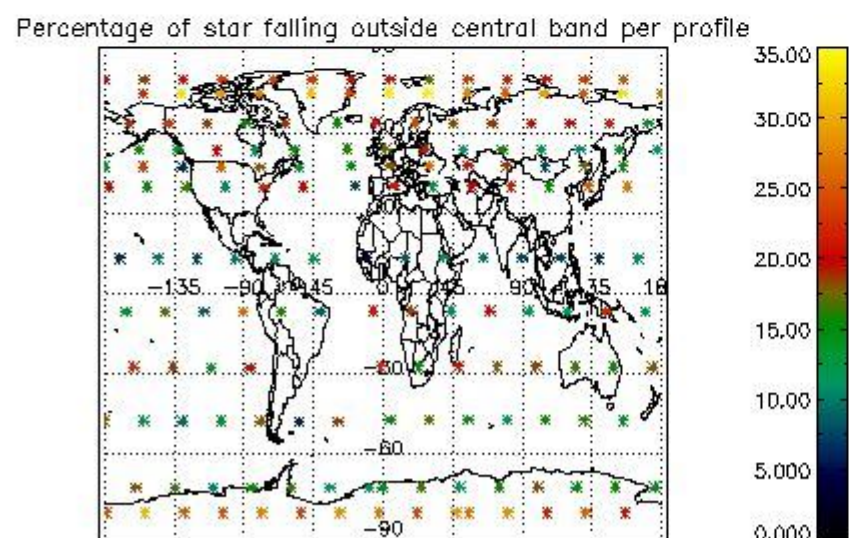
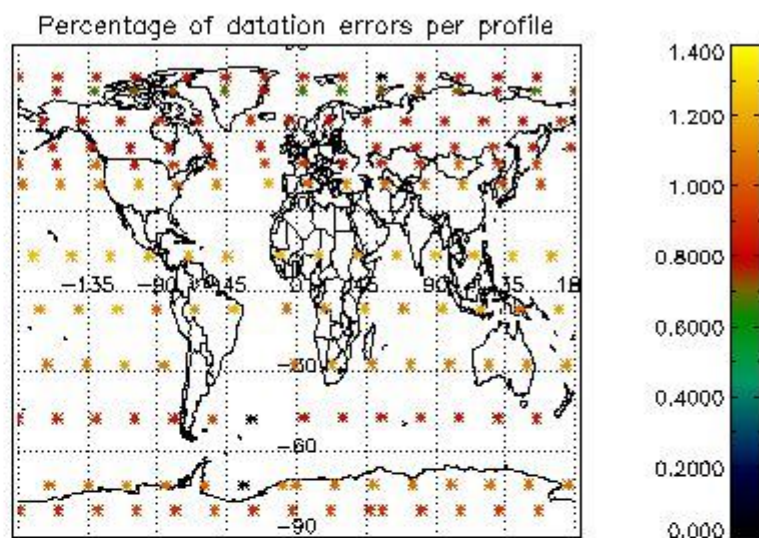
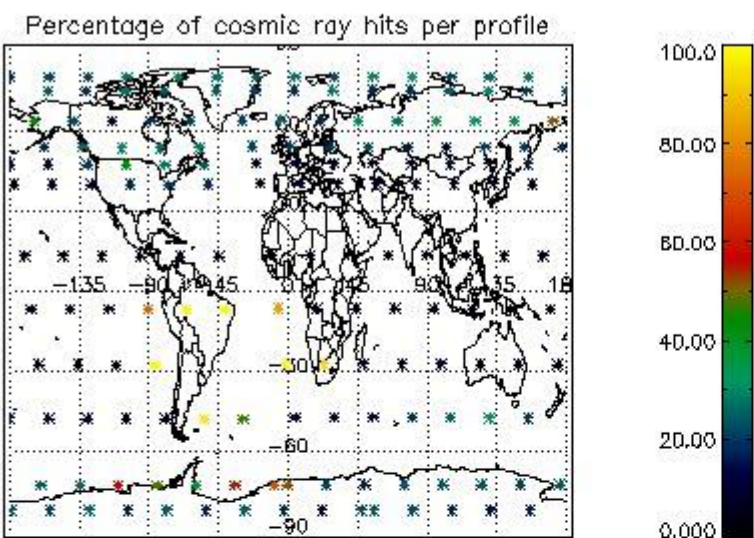


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

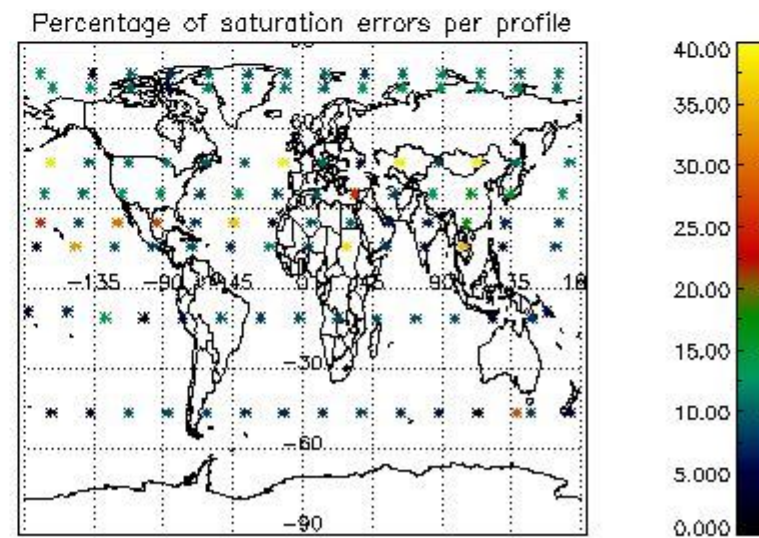
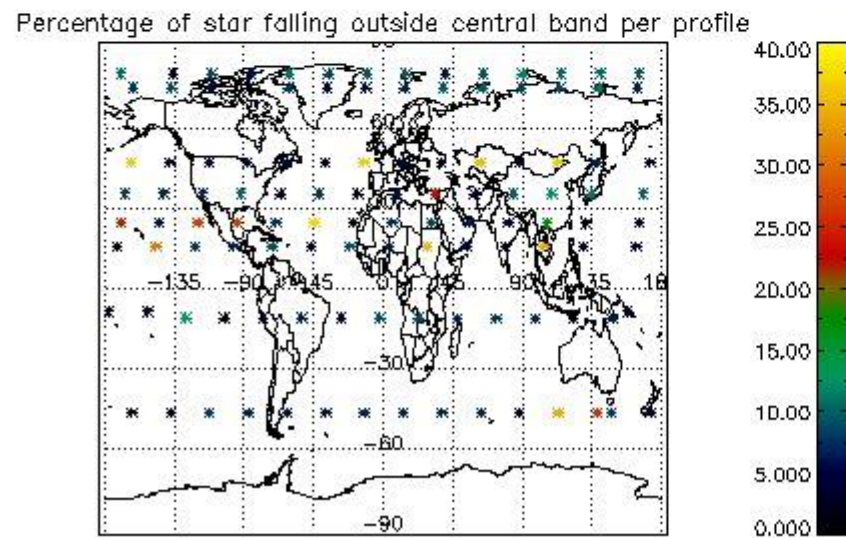
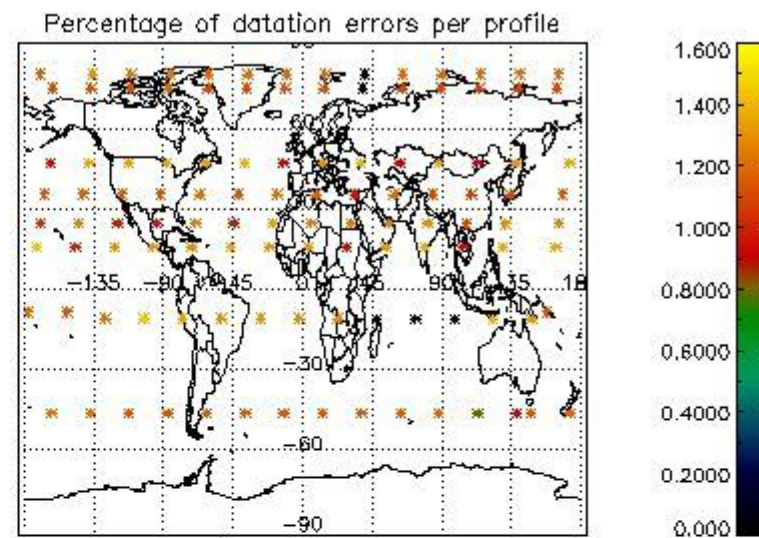
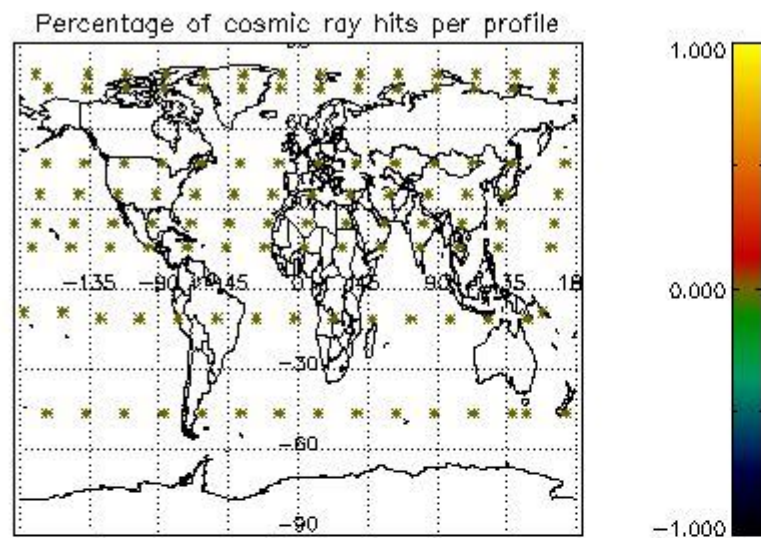


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

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

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

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

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

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

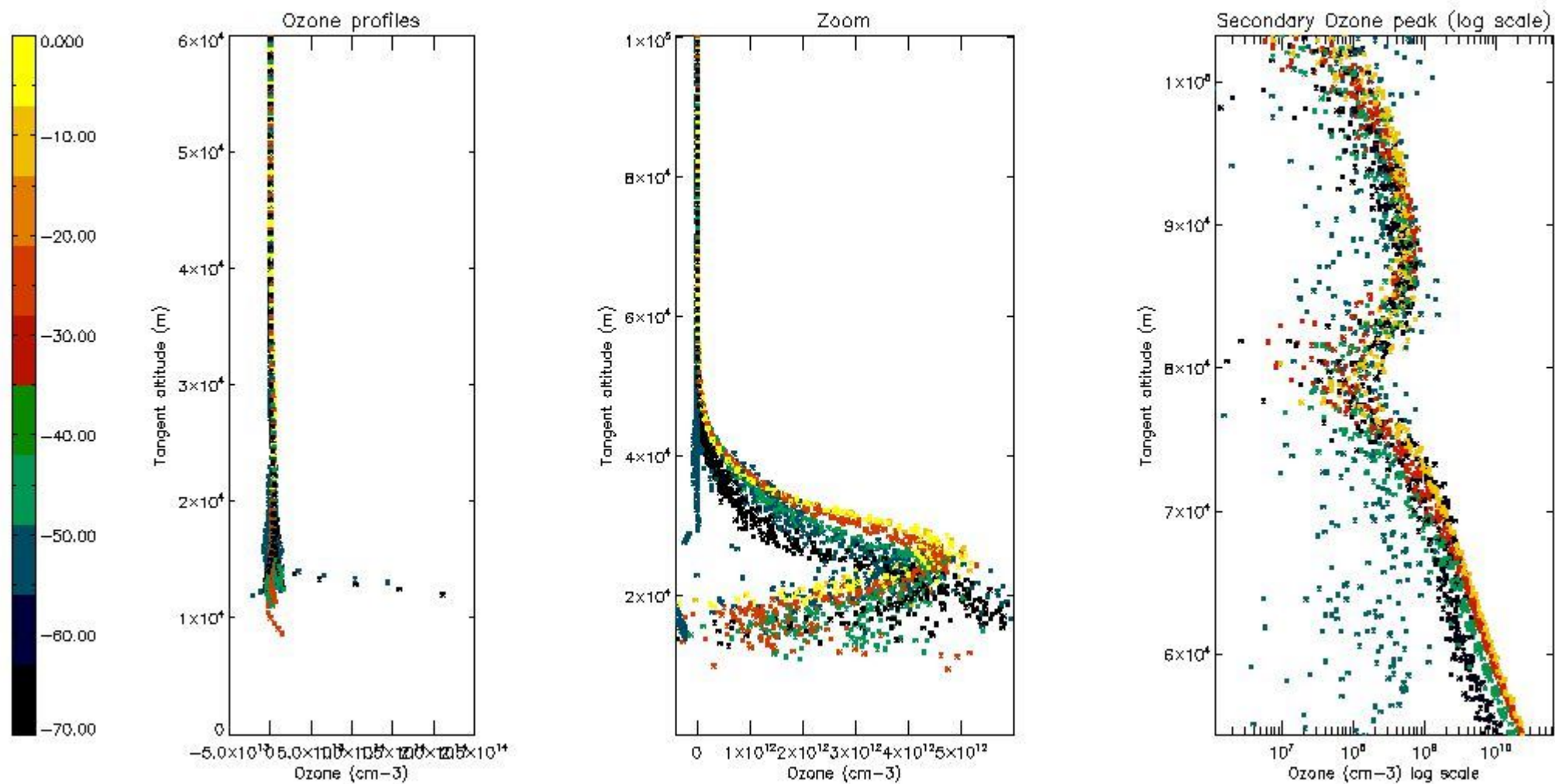
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	24
STD < 20	12

STD < 10	9
STD < 5	5

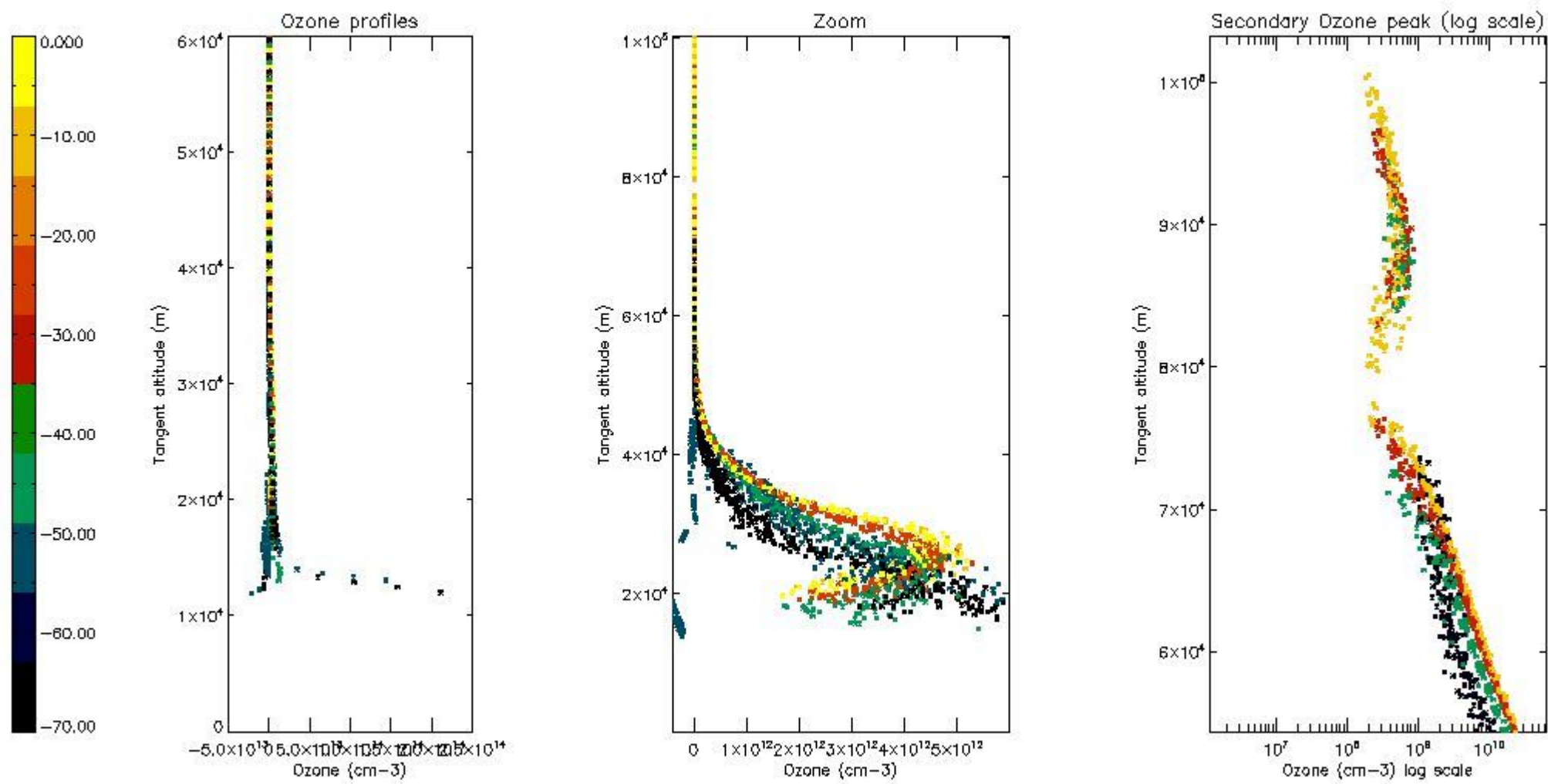
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



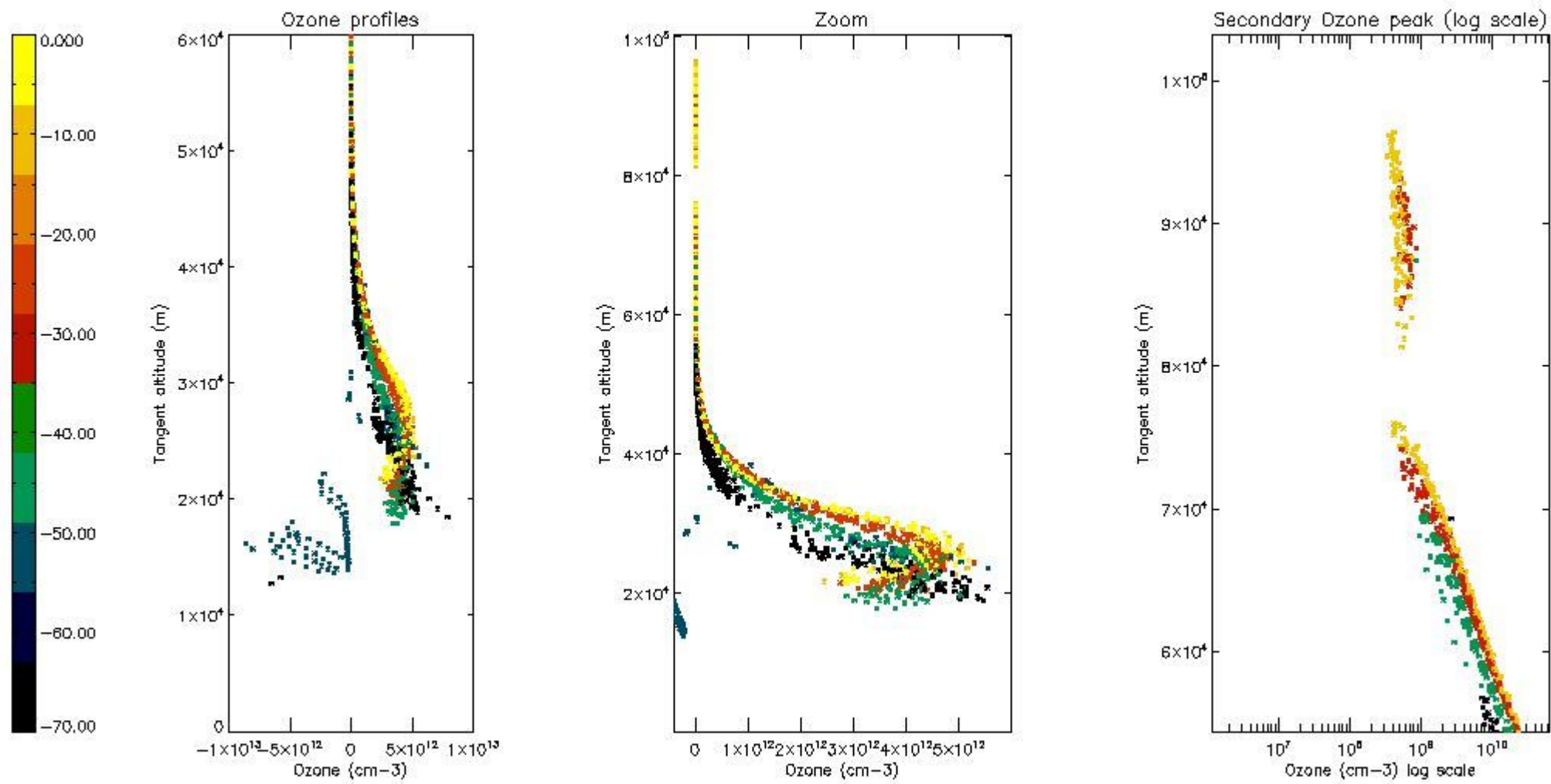
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



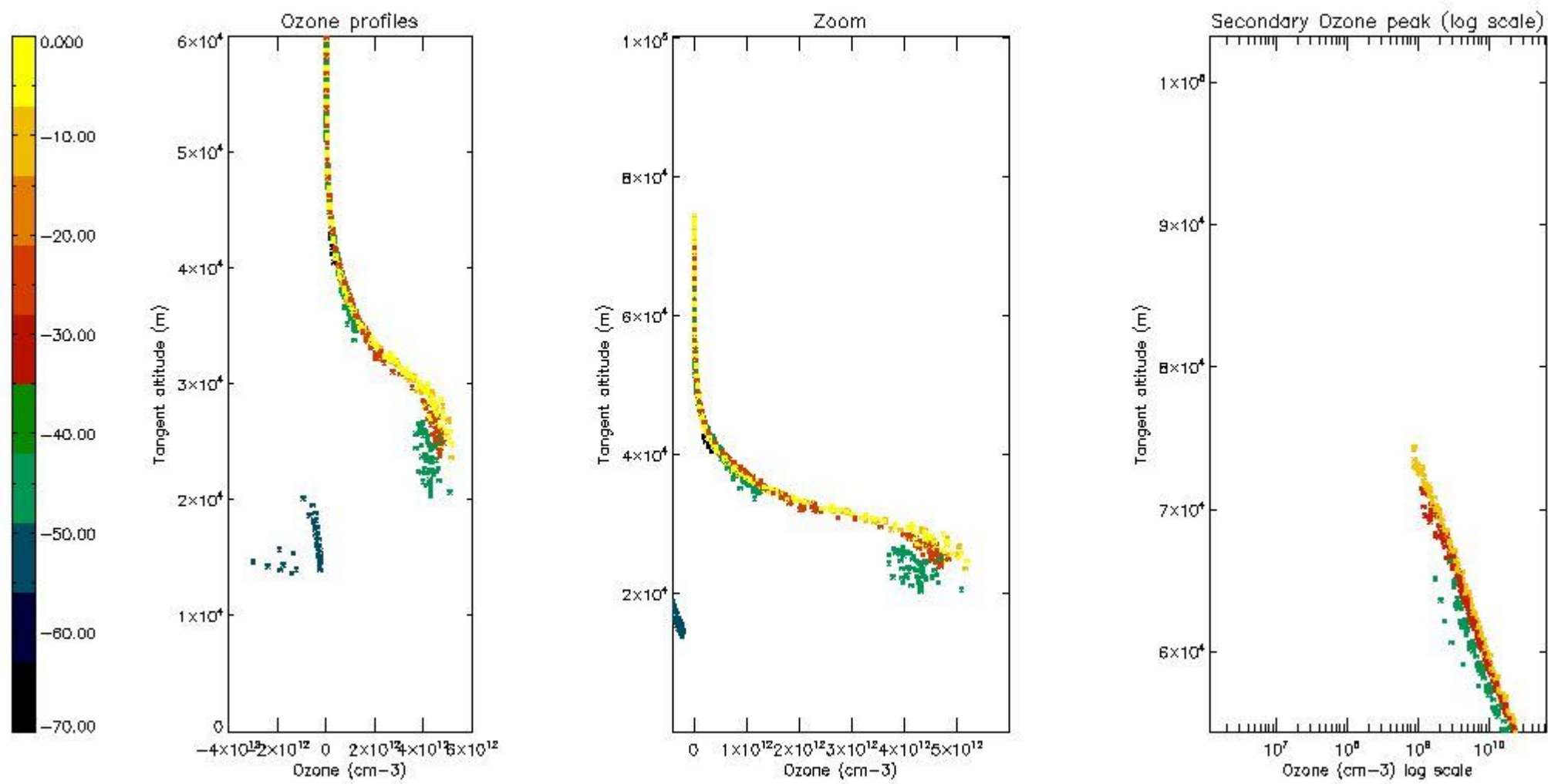
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



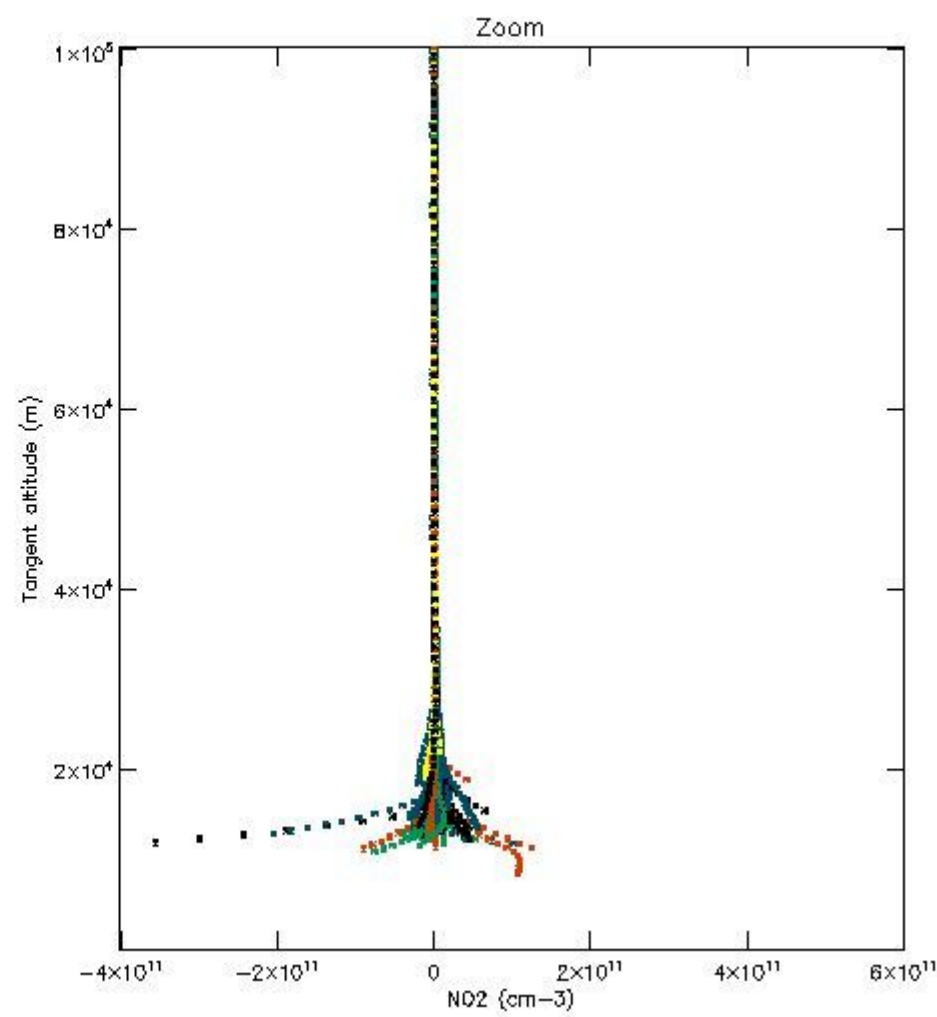
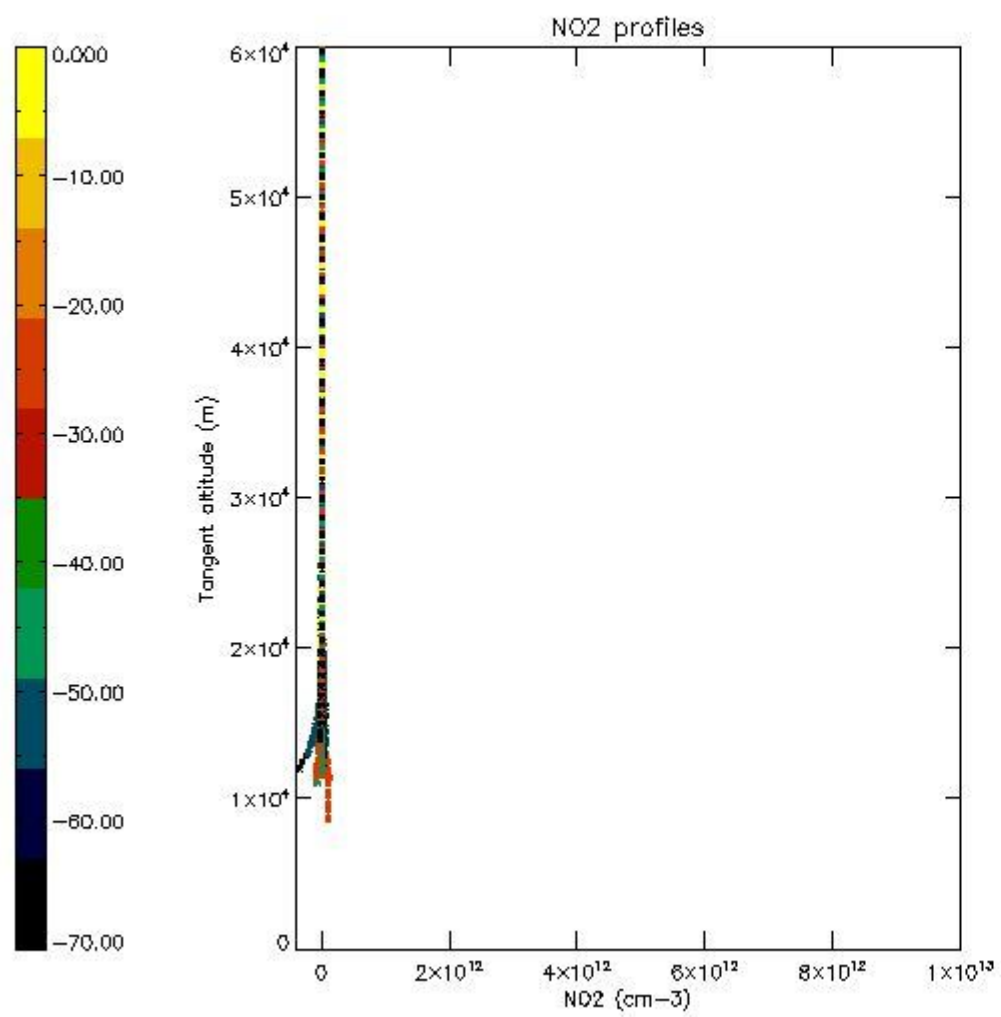
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



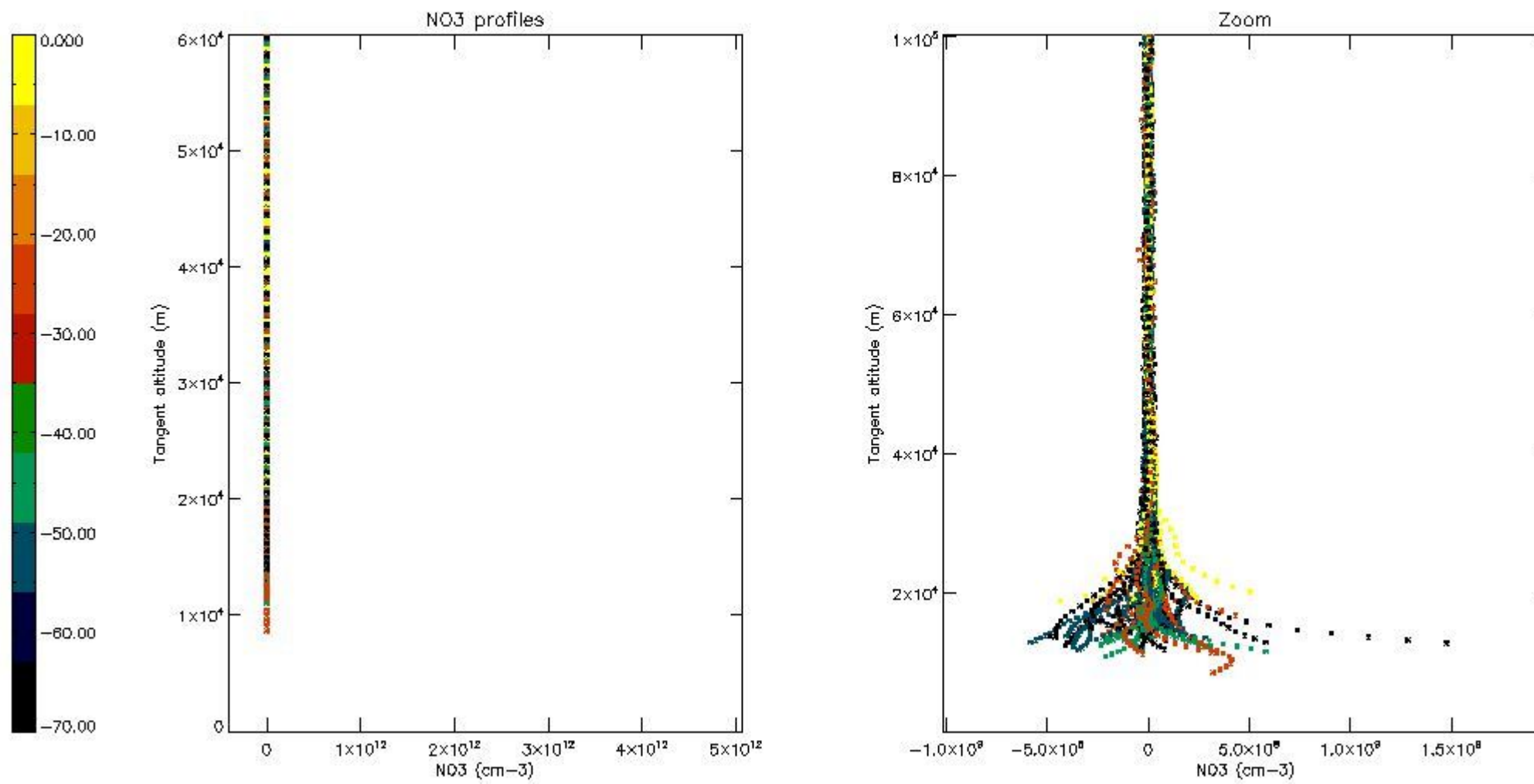
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

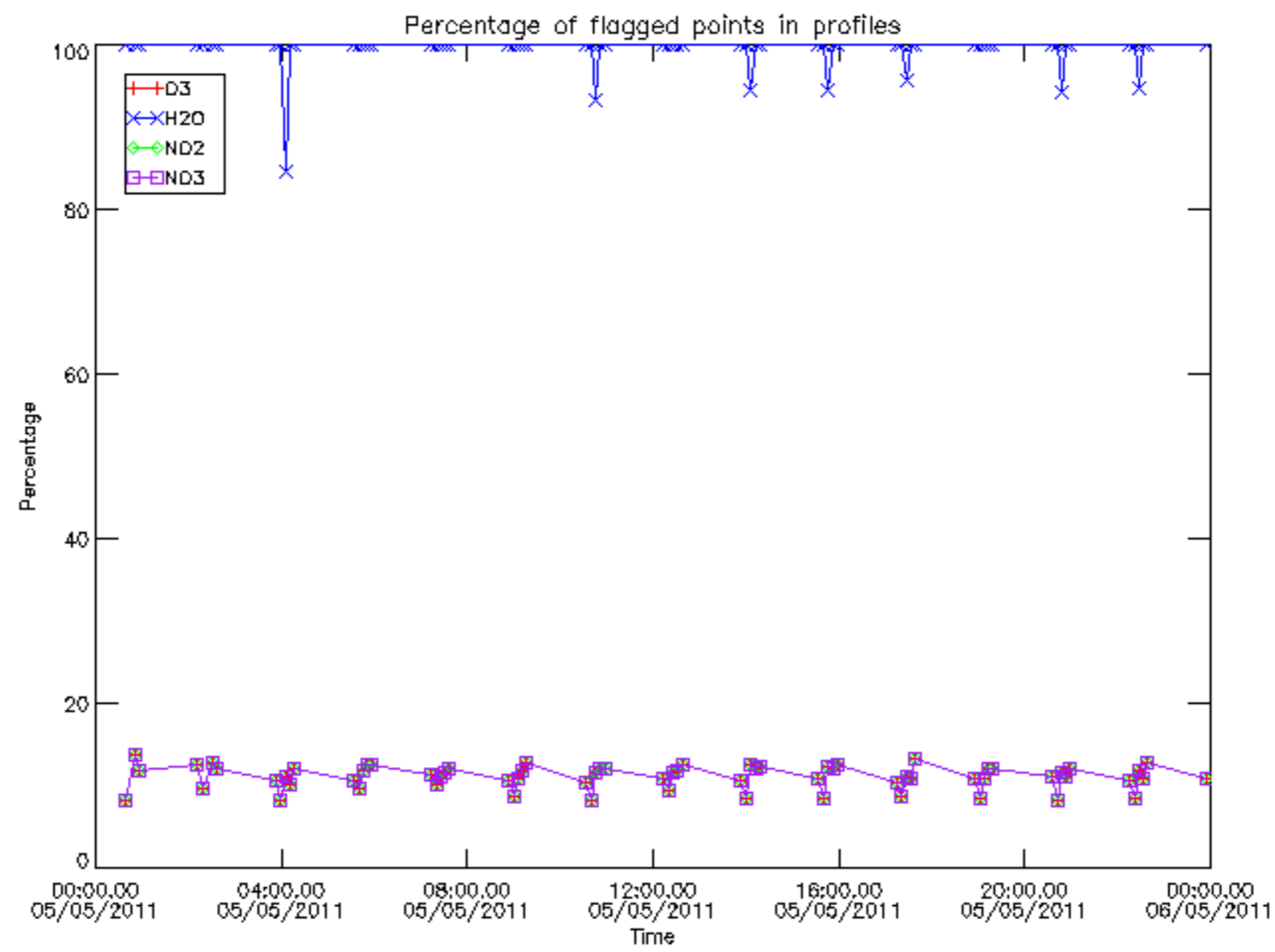
The colorbar represents the latitude.



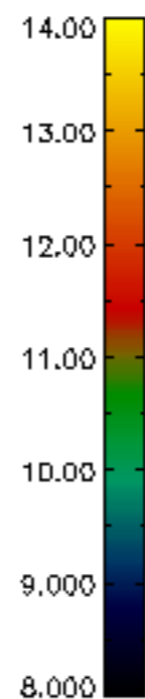
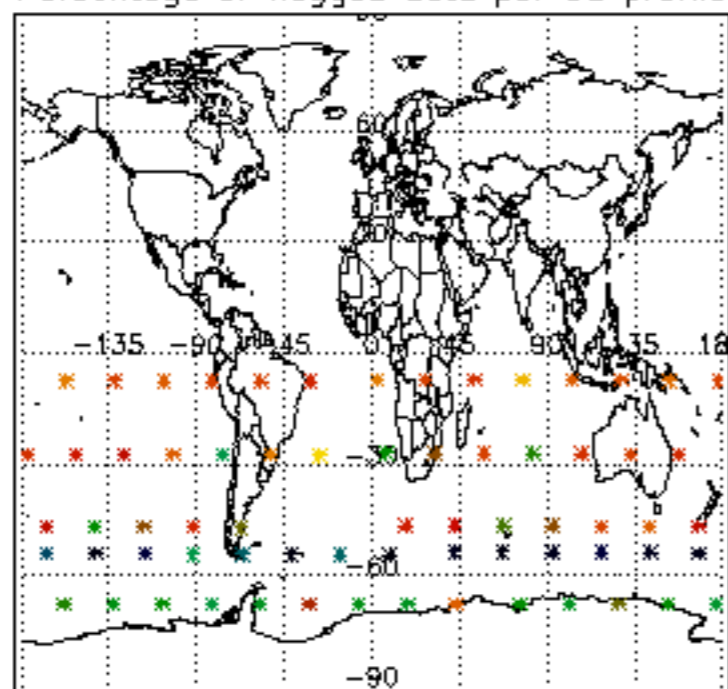
6. Auxiliary Data Files used for the production reported in section 2

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.

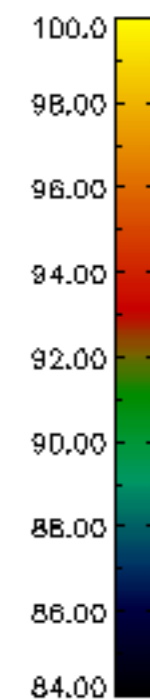
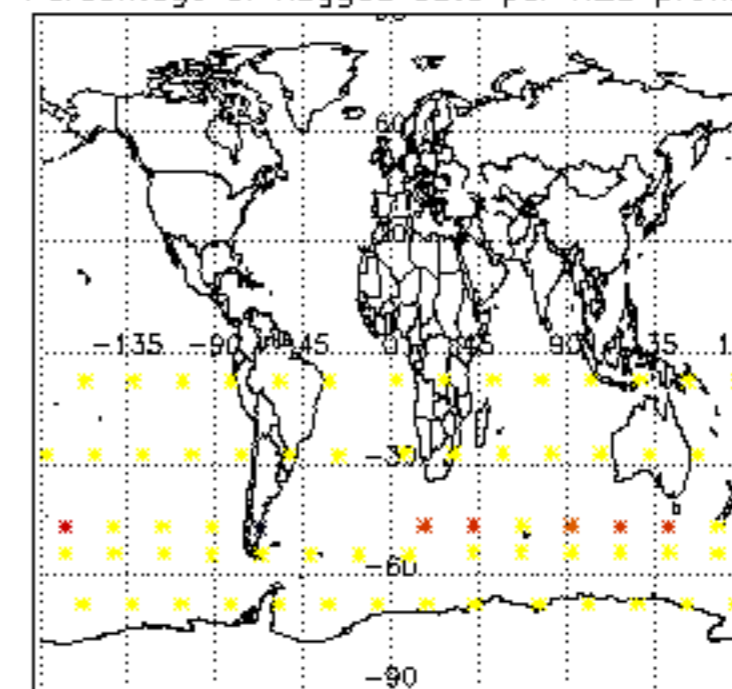
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	05-MAY-2011 00:05:05
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	05-MAY-2011 00:05:05
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	05-MAY-2011 00:05:05



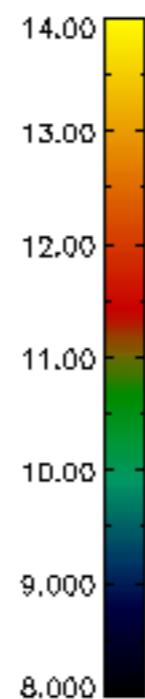
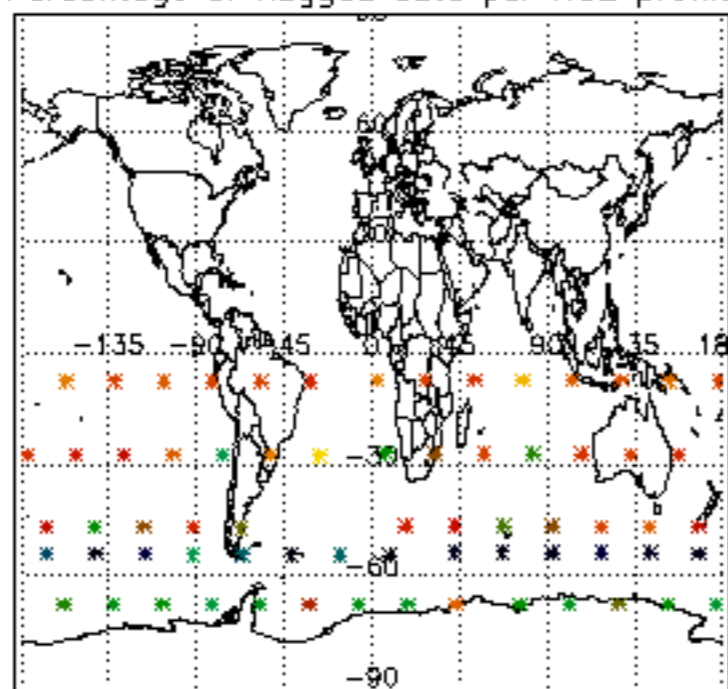
Percentage of flagged data per D3 profile



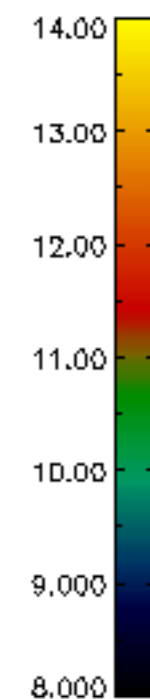
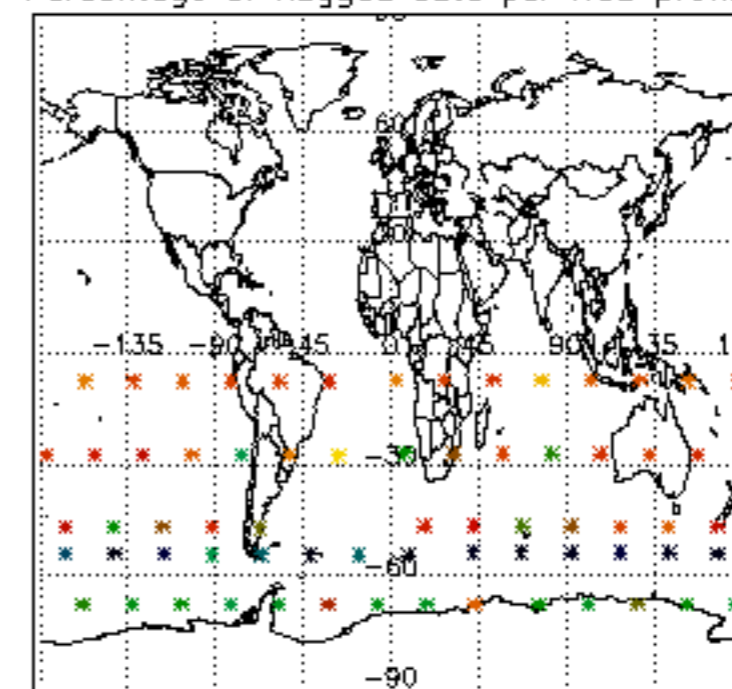
Percentage of flagged data per H2O profile

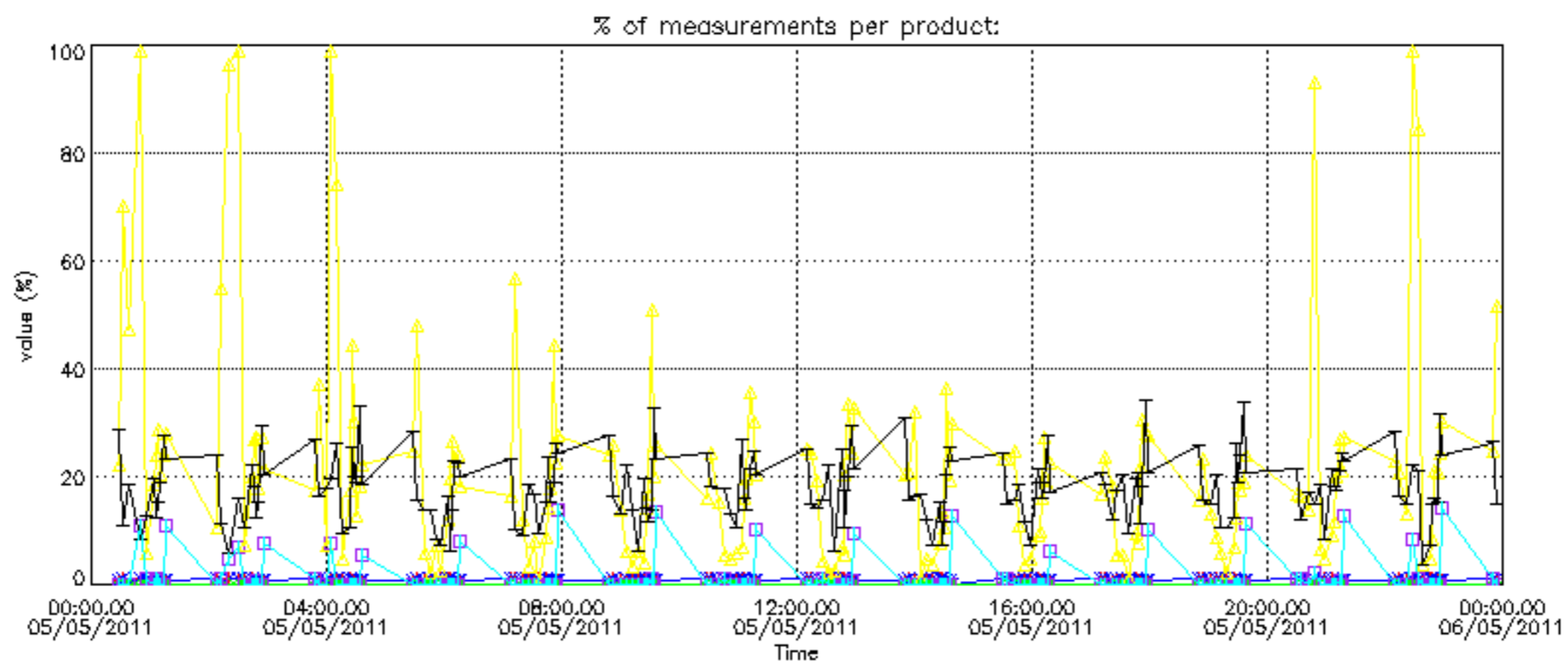
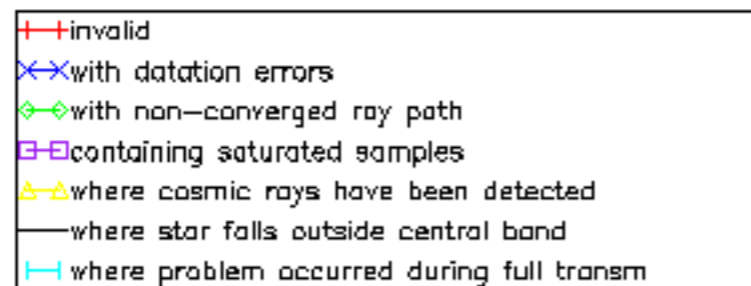


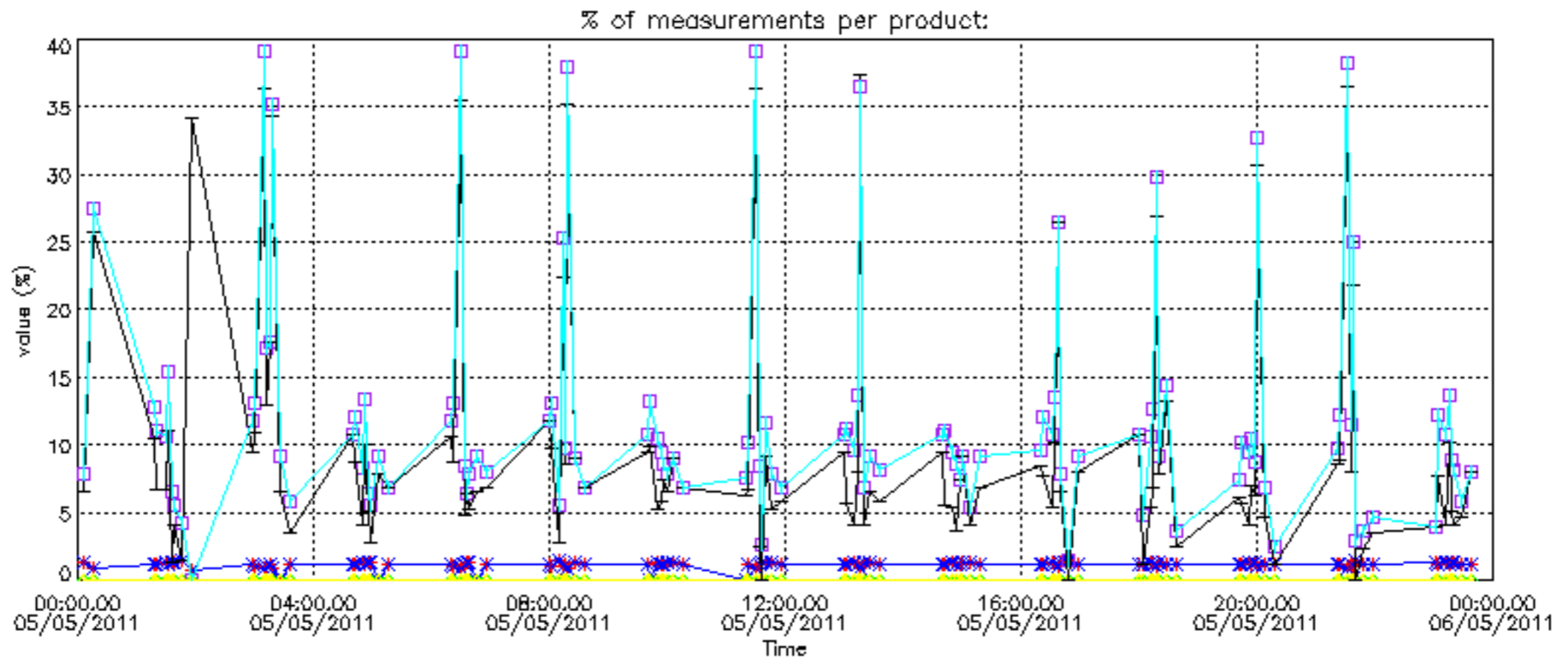
Percentage of flagged data per NO2 profile



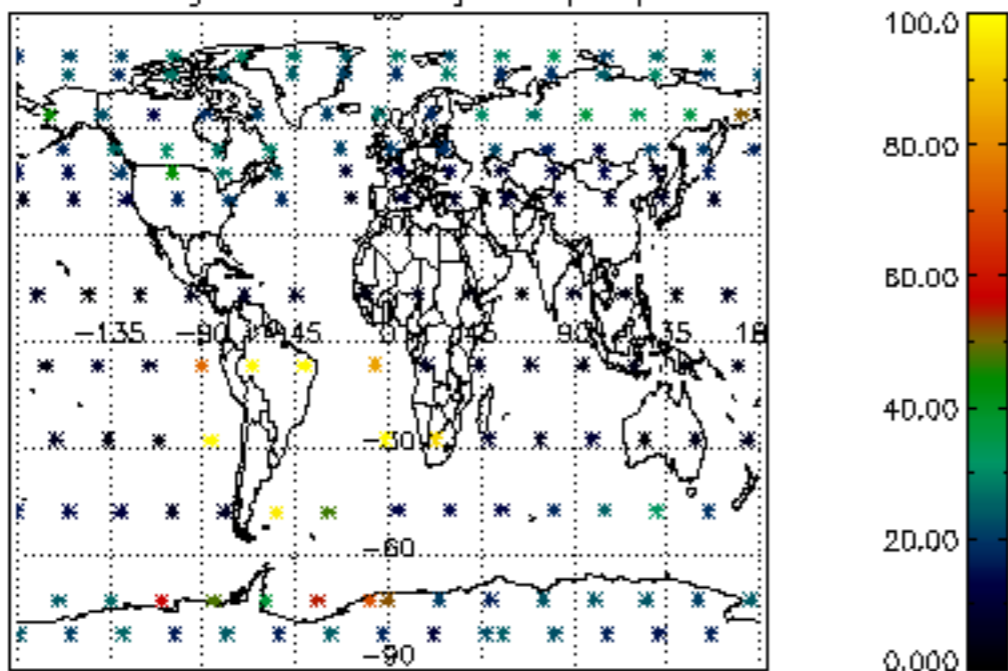
Percentage of flagged data per NO3 profile



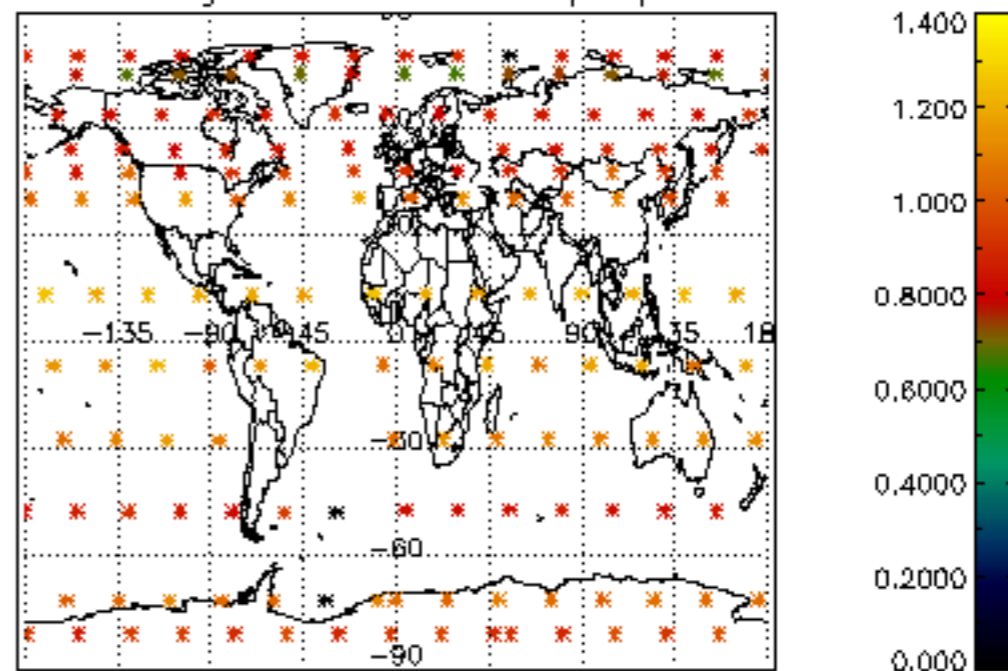




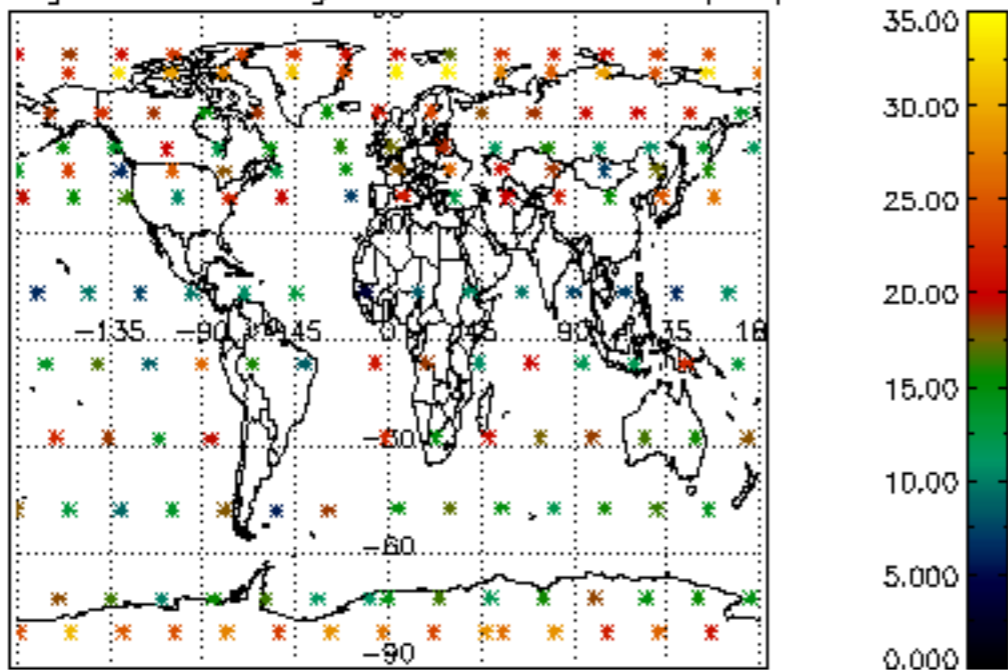
Percentage of cosmic ray hits per profile



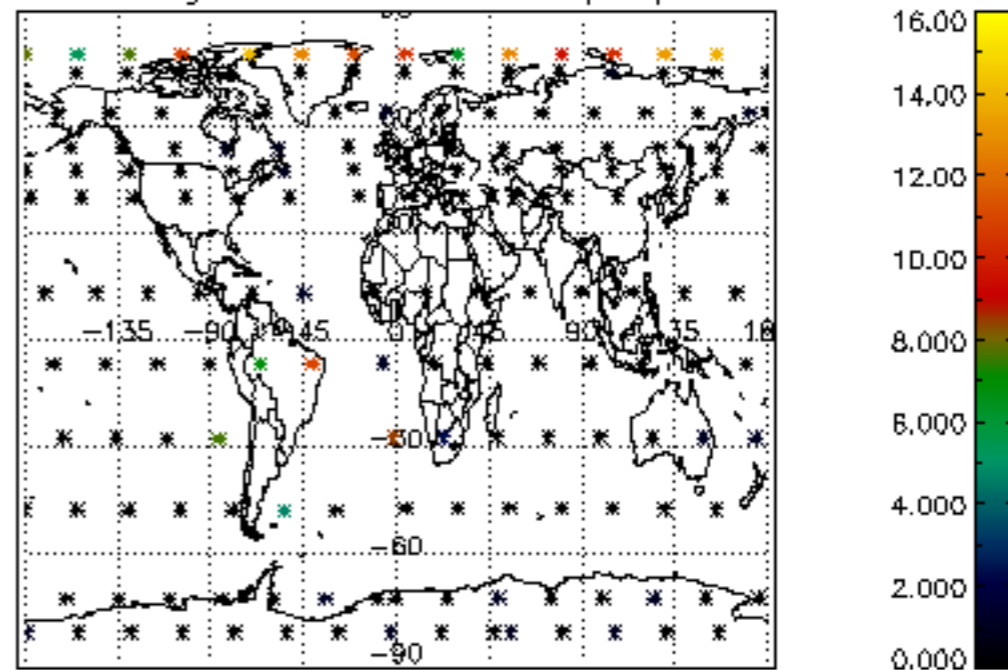
Percentage of datation errors per profile



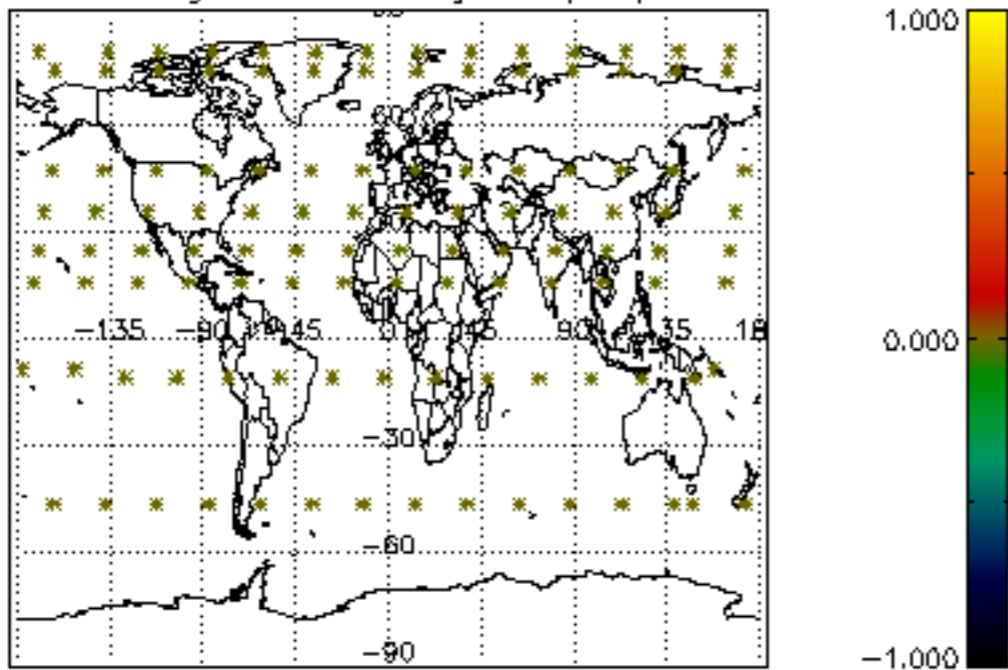
Percentage of star falling outside central band per profile



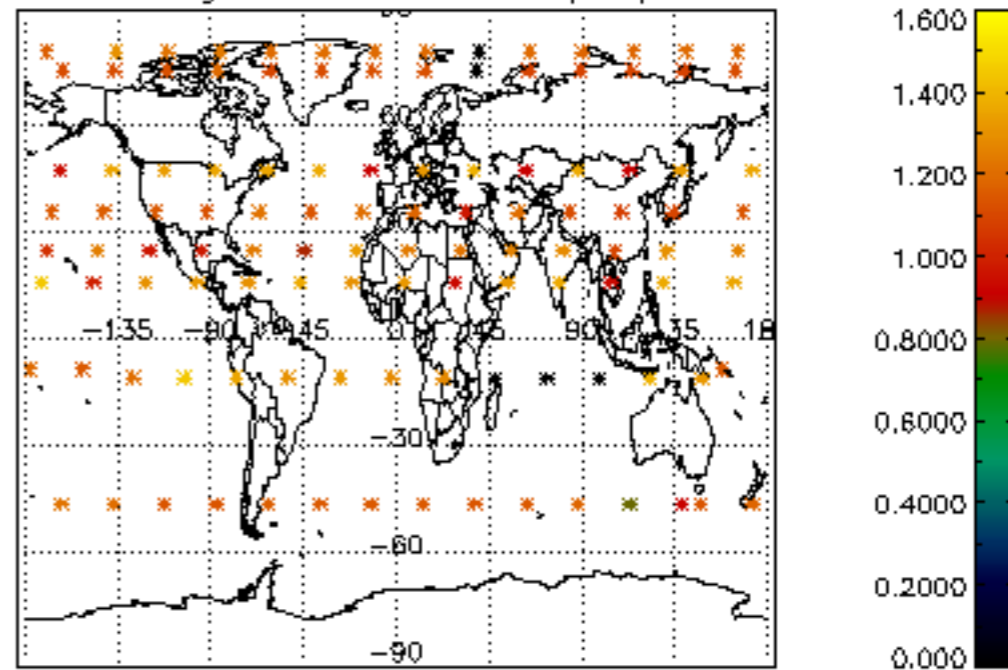
Percentage of saturation errors per profile



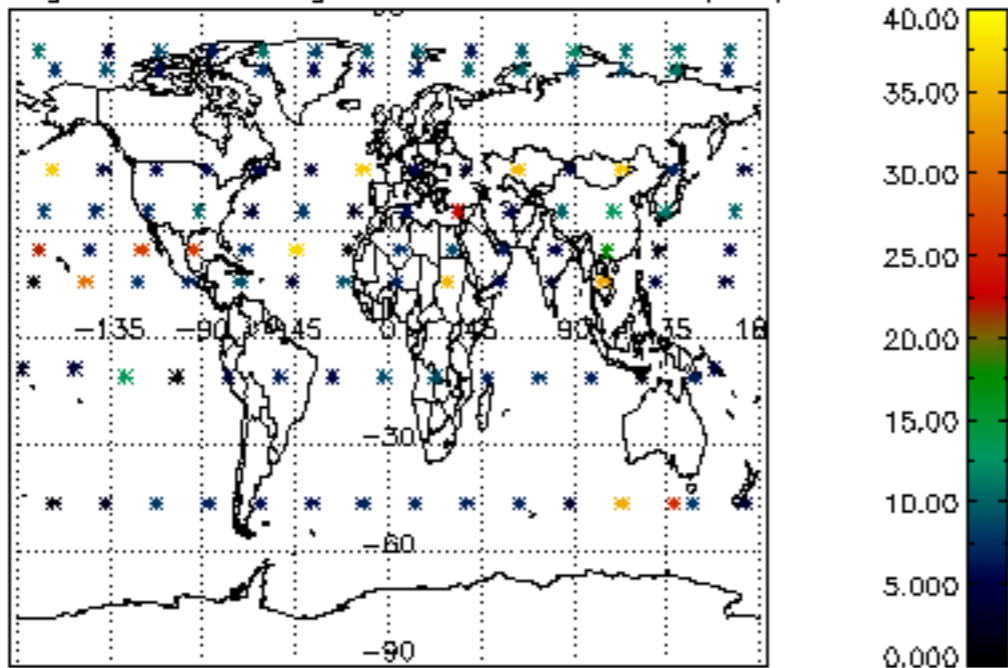
Percentage of cosmic ray hits per profile



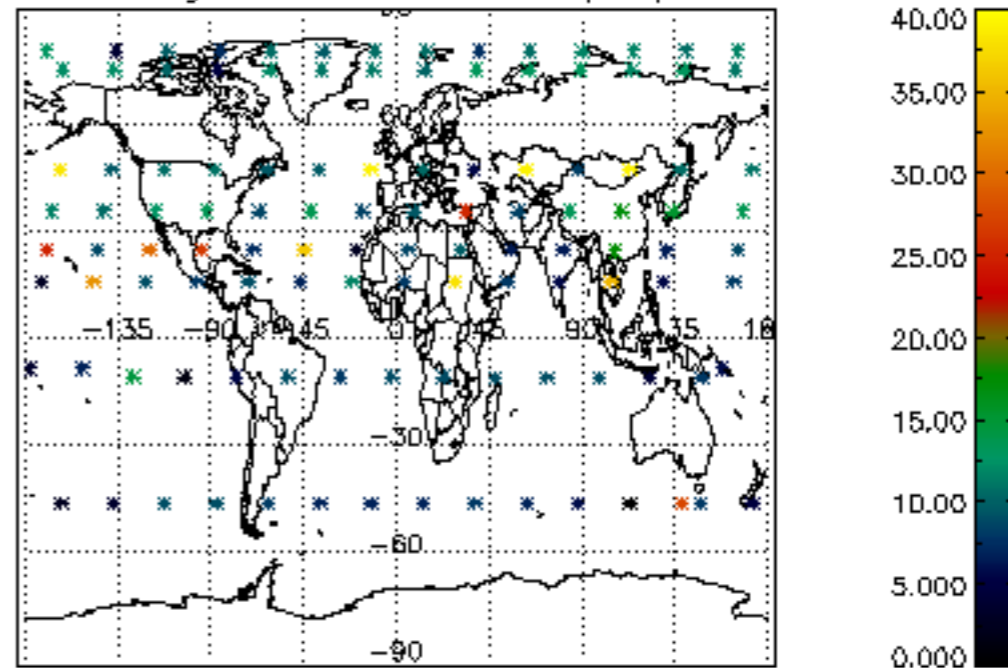
Percentage of datation errors per profile

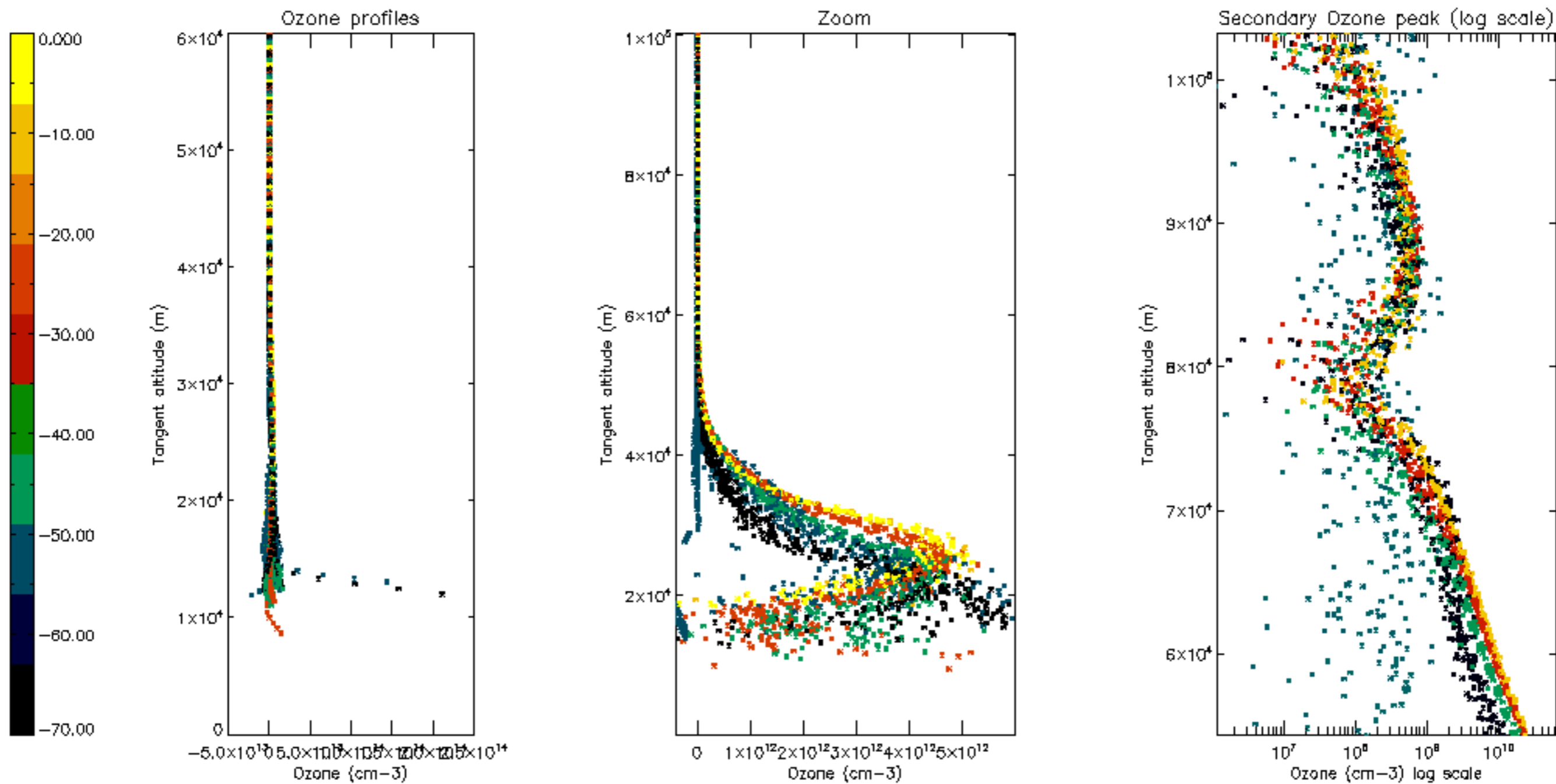


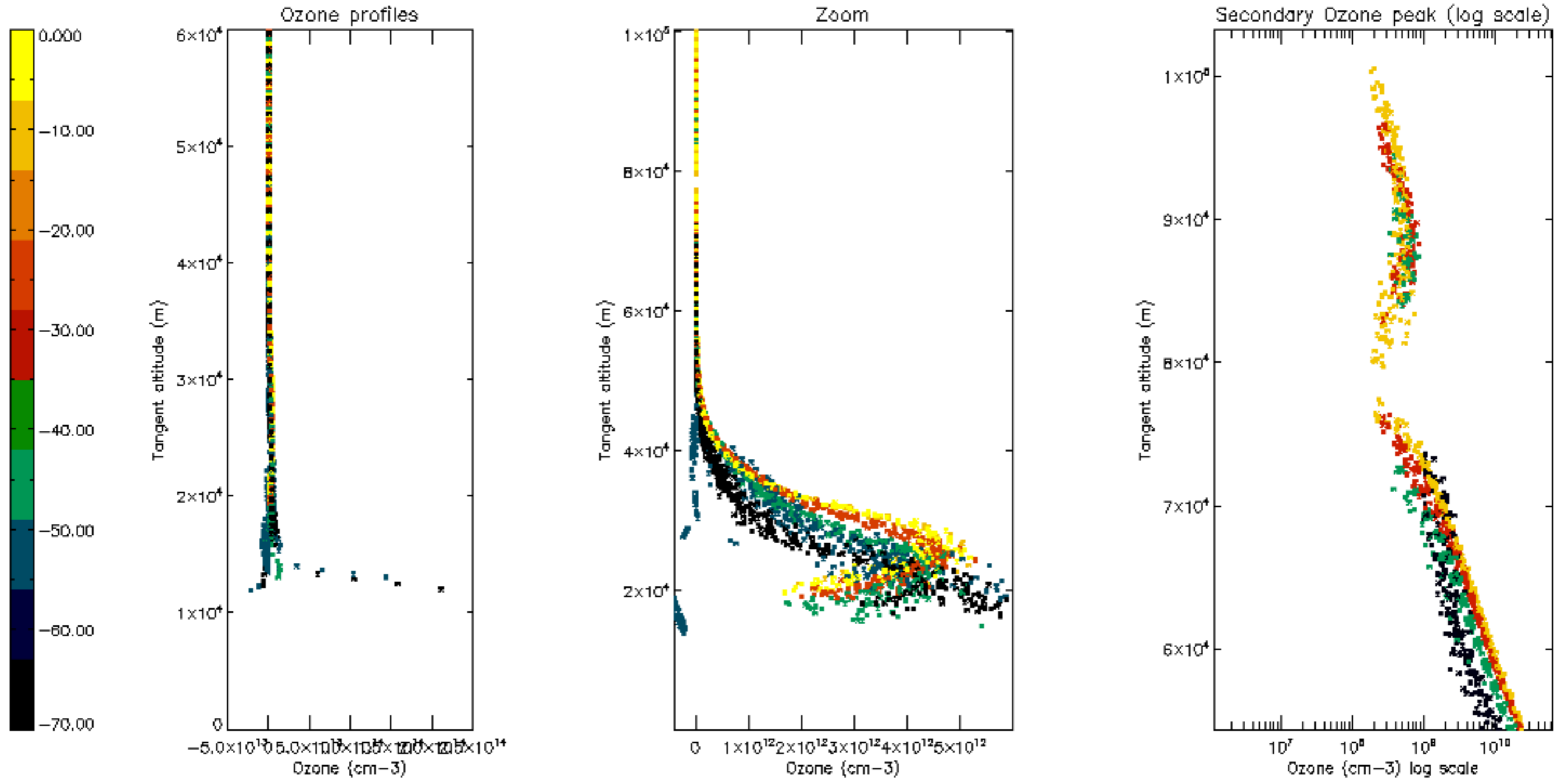
Percentage of star falling outside central band per profile

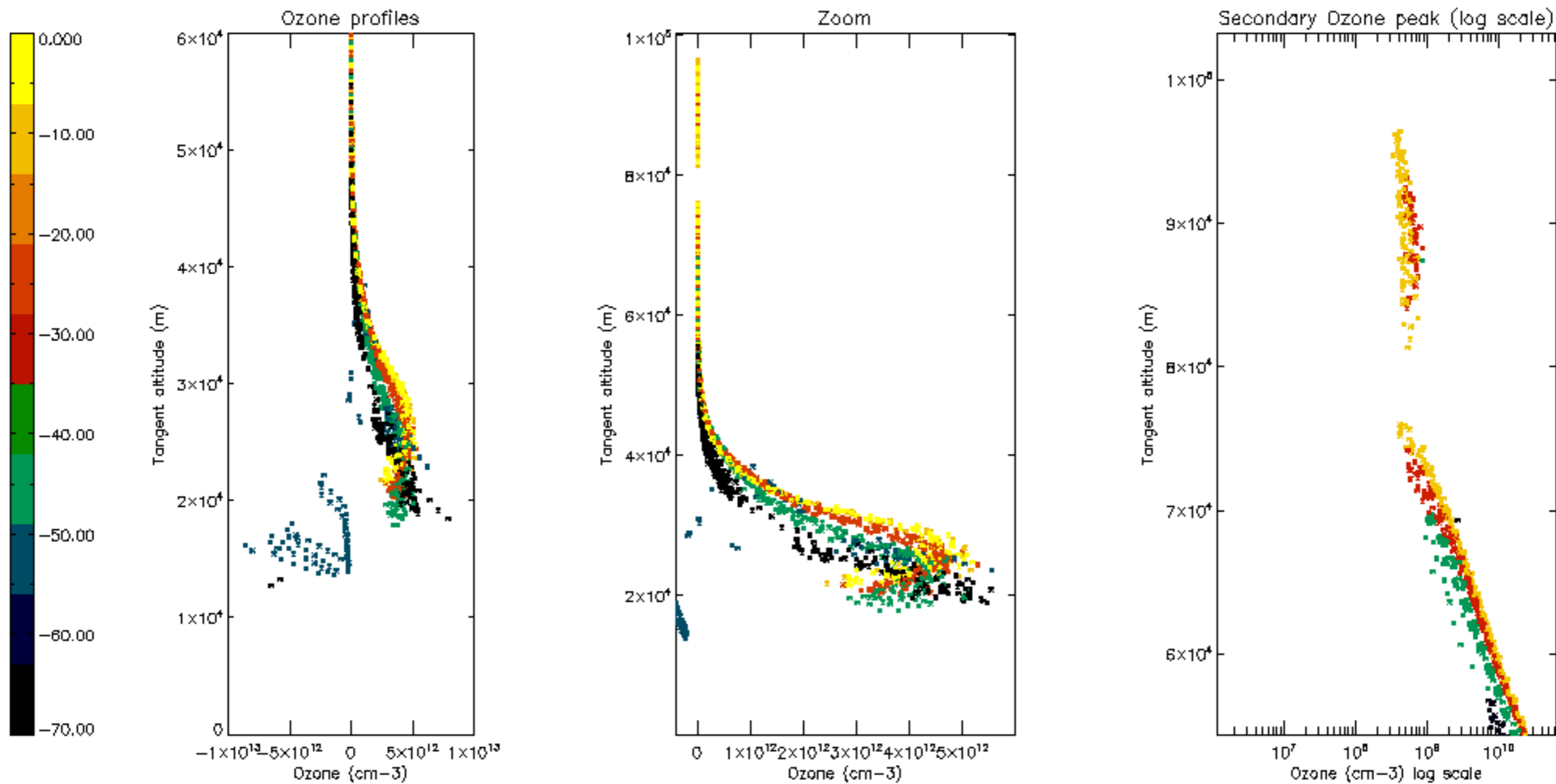


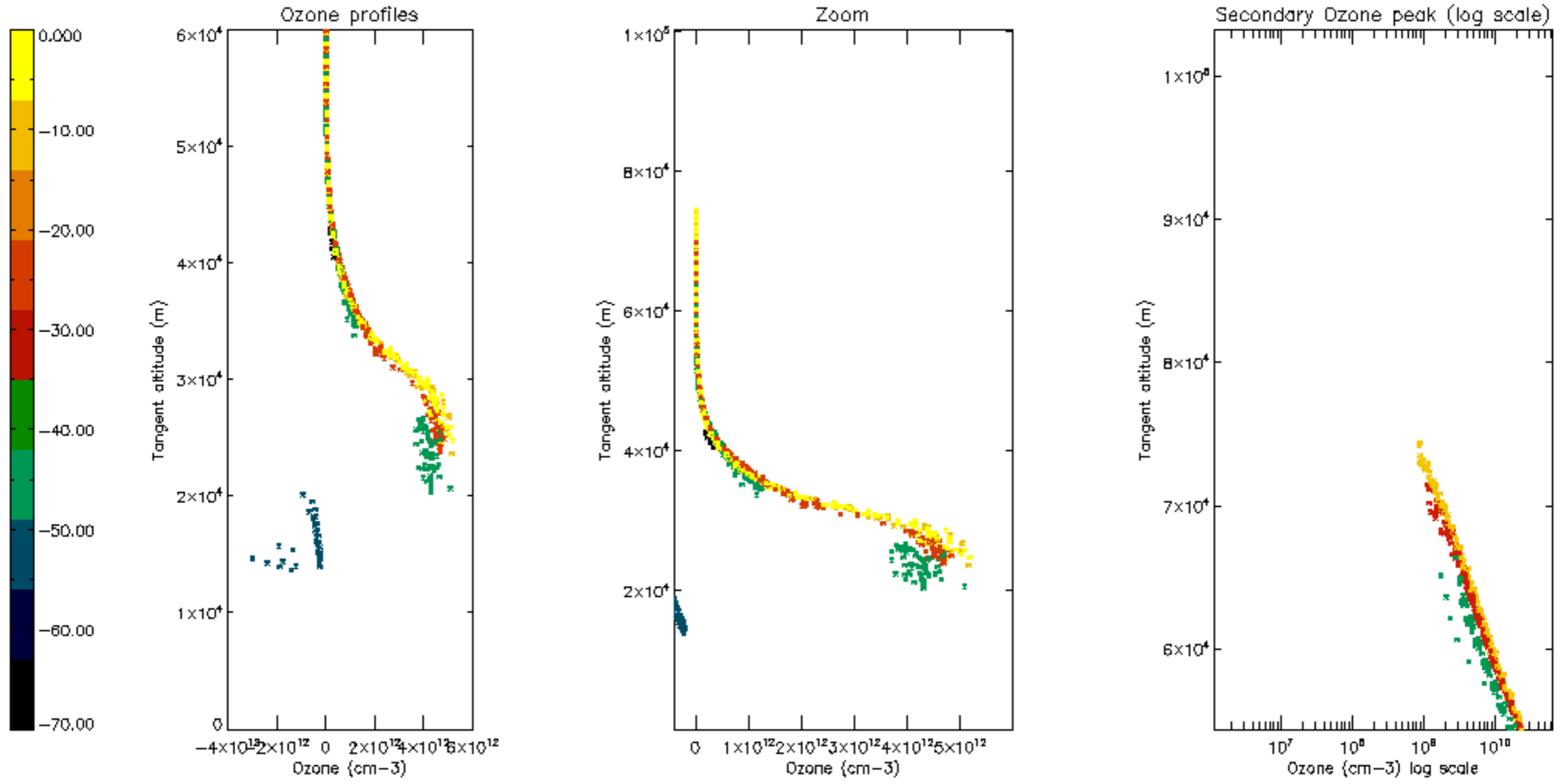
Percentage of saturation errors per profile

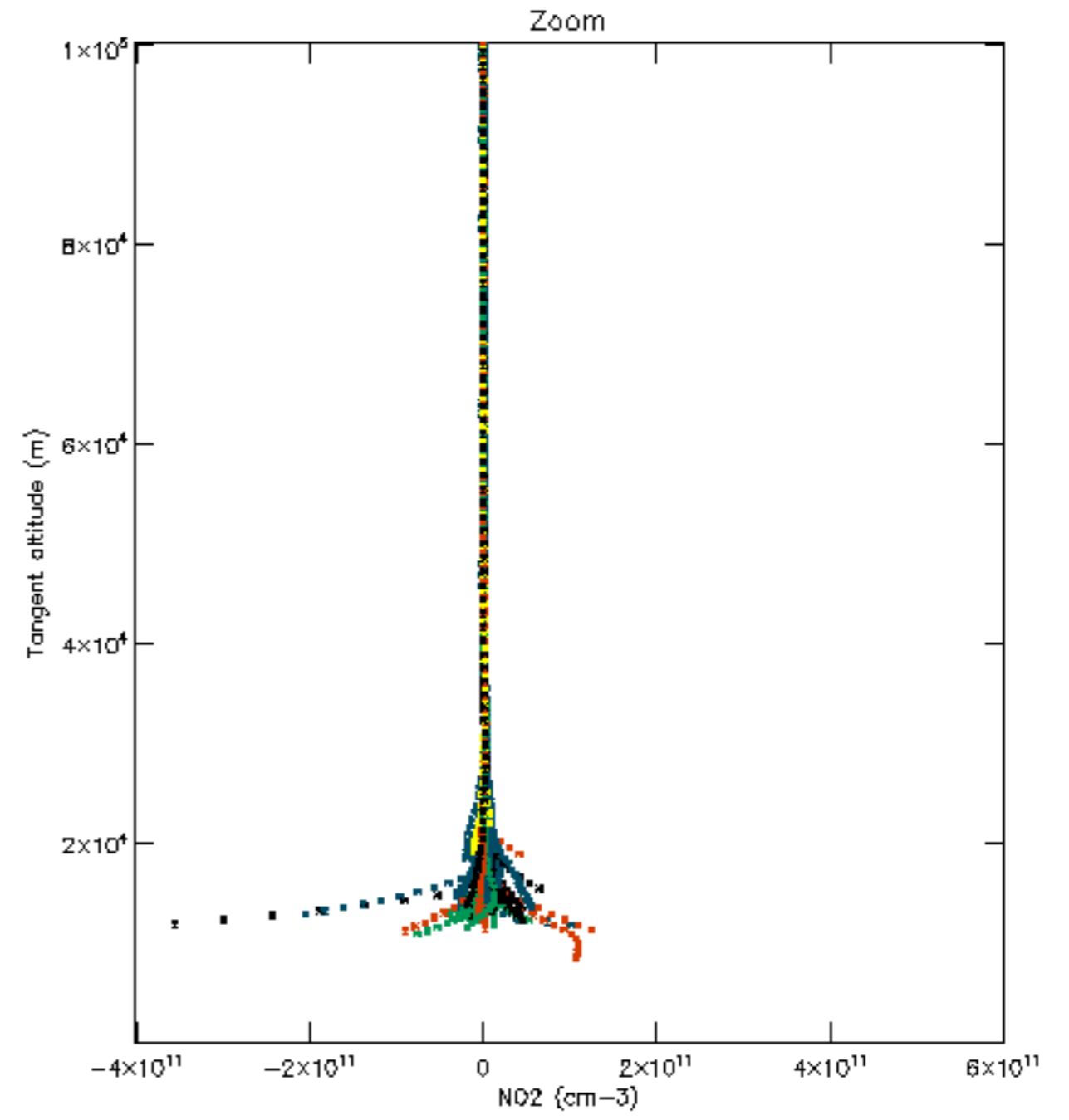
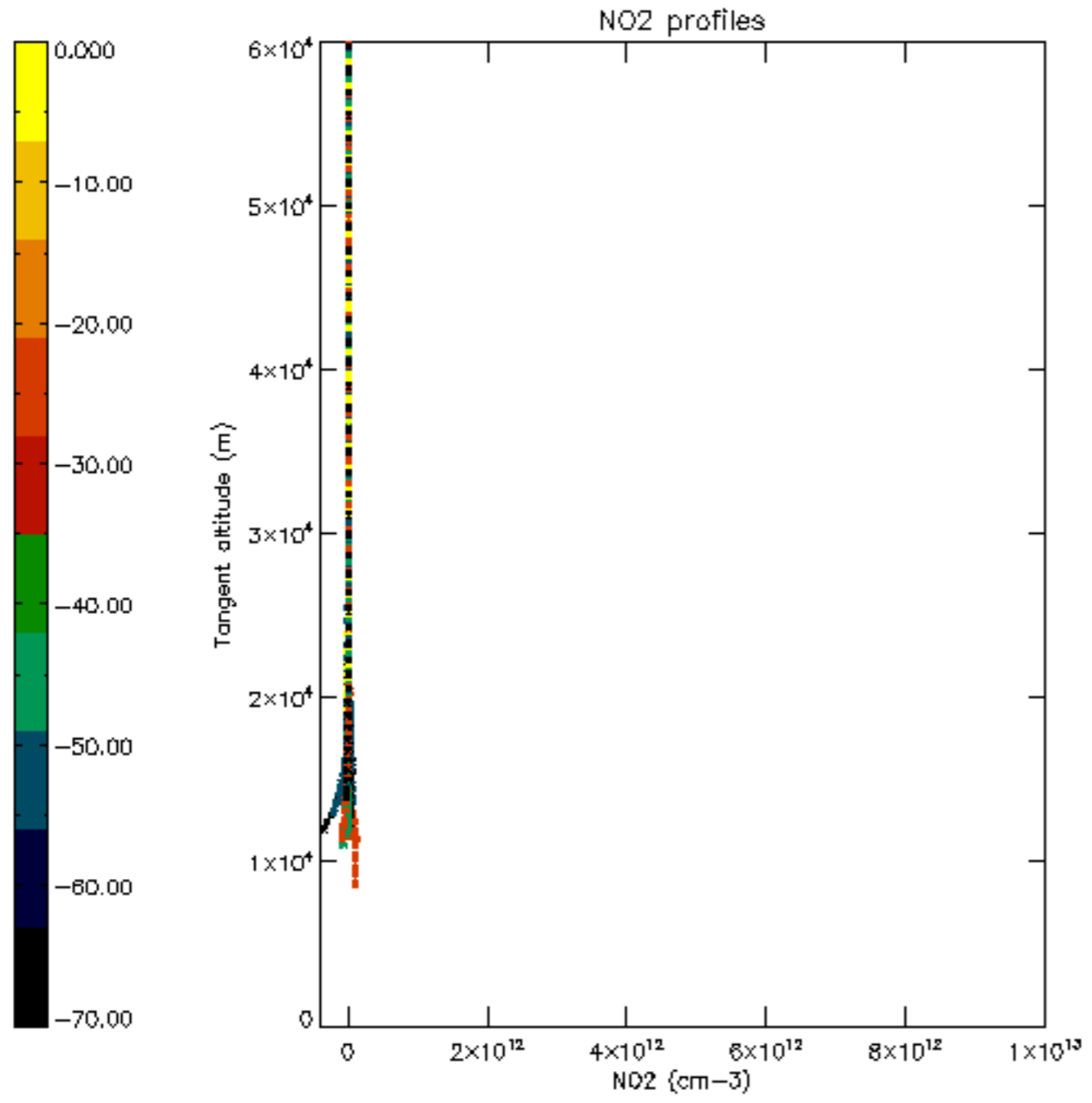


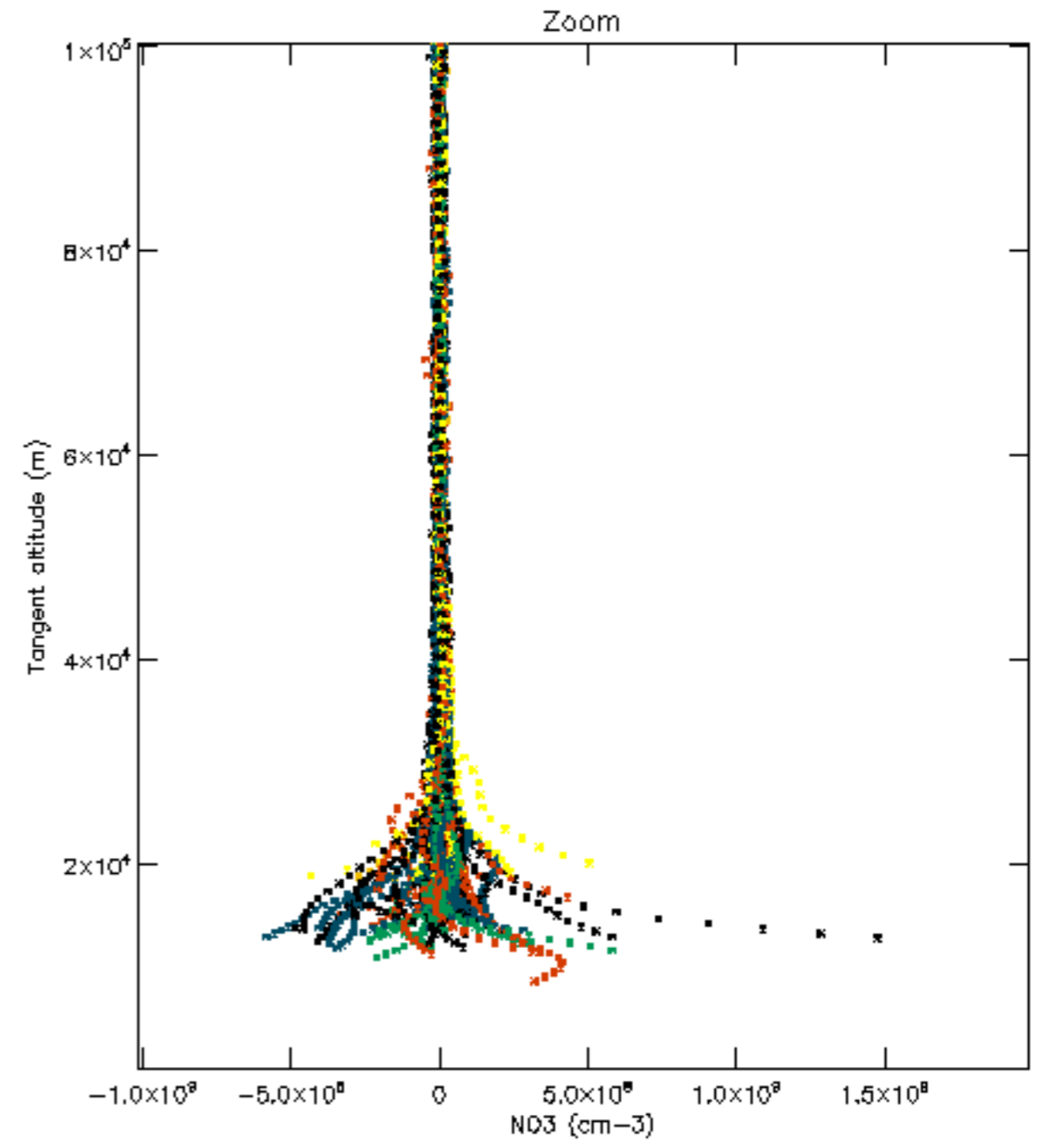
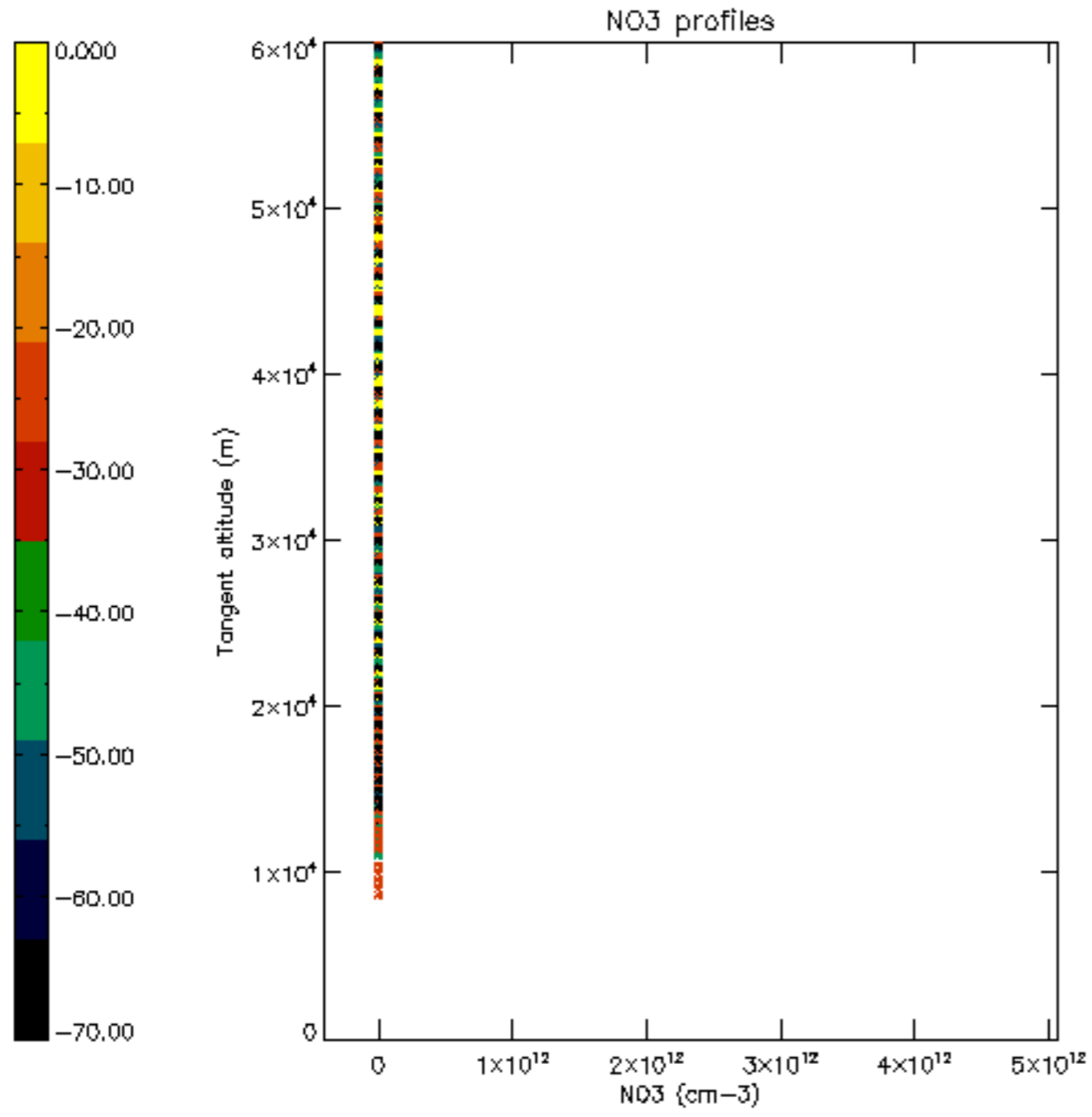


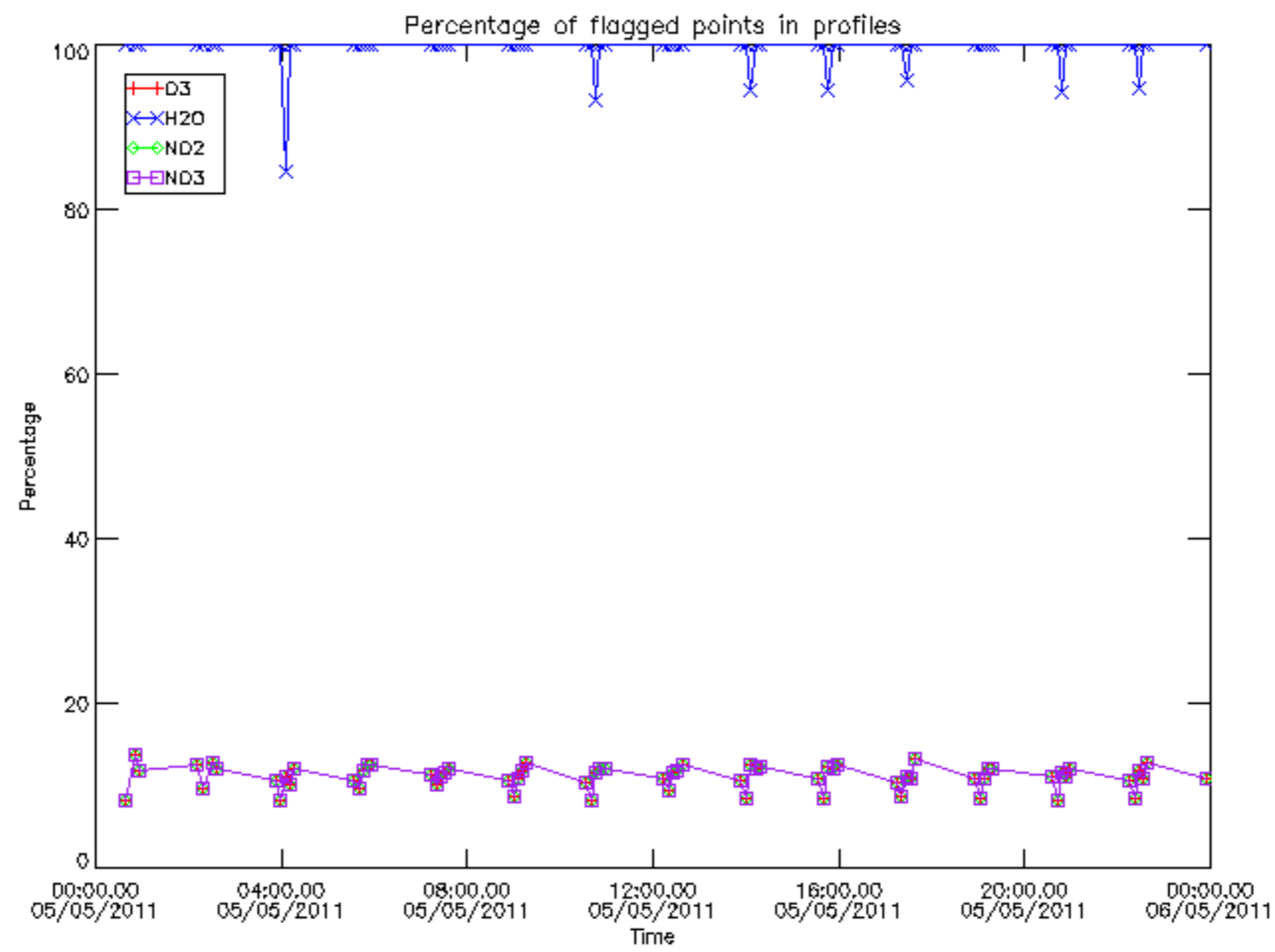




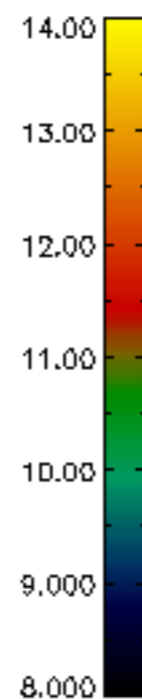
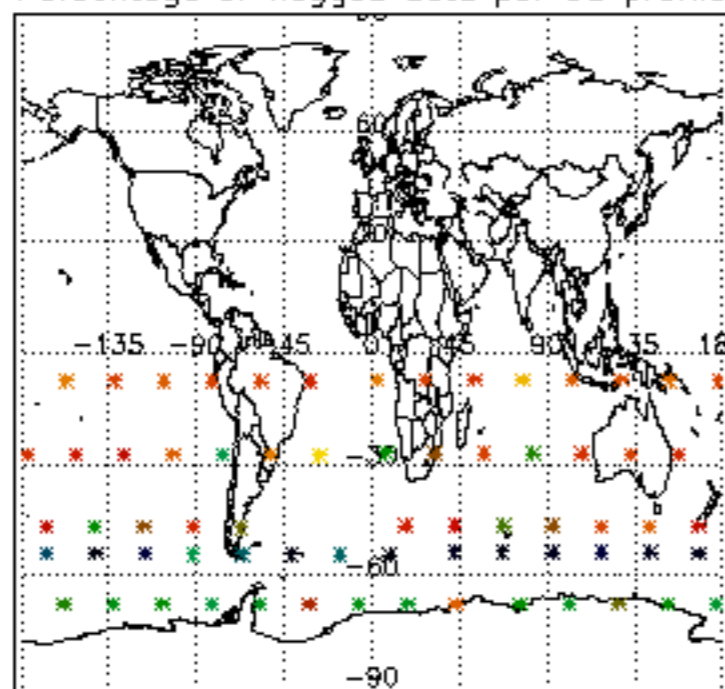




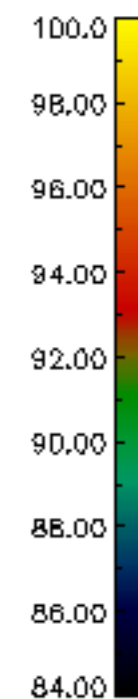
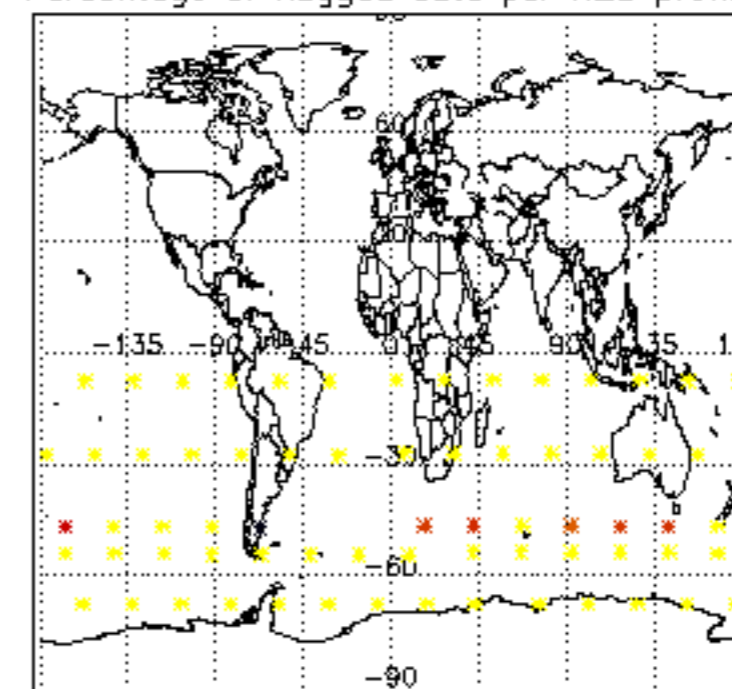




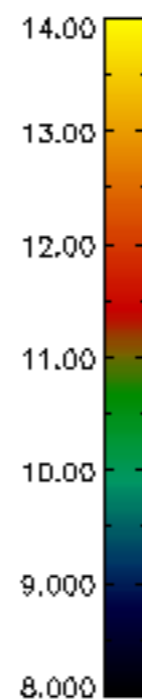
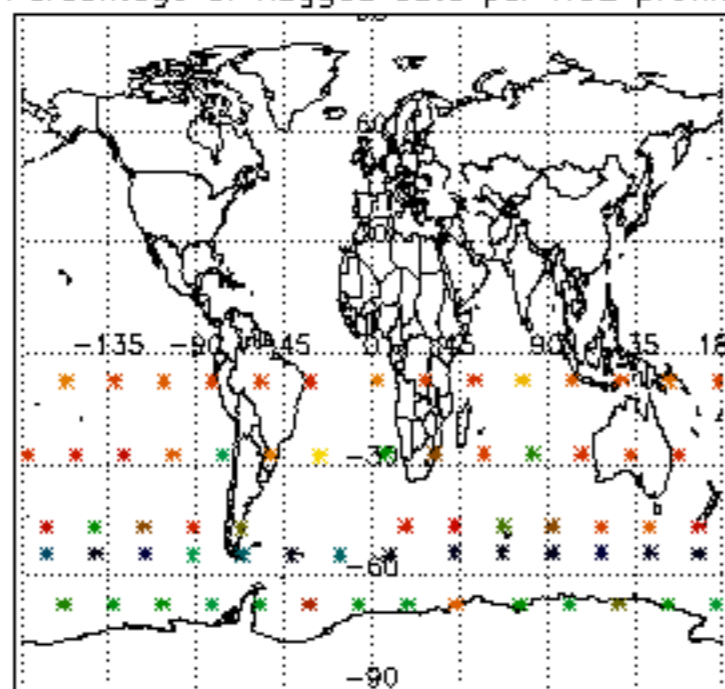
Percentage of flagged data per D3 profile



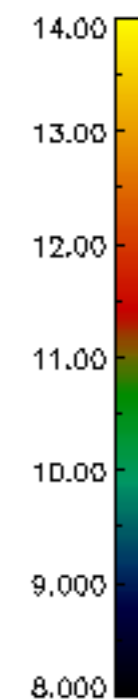
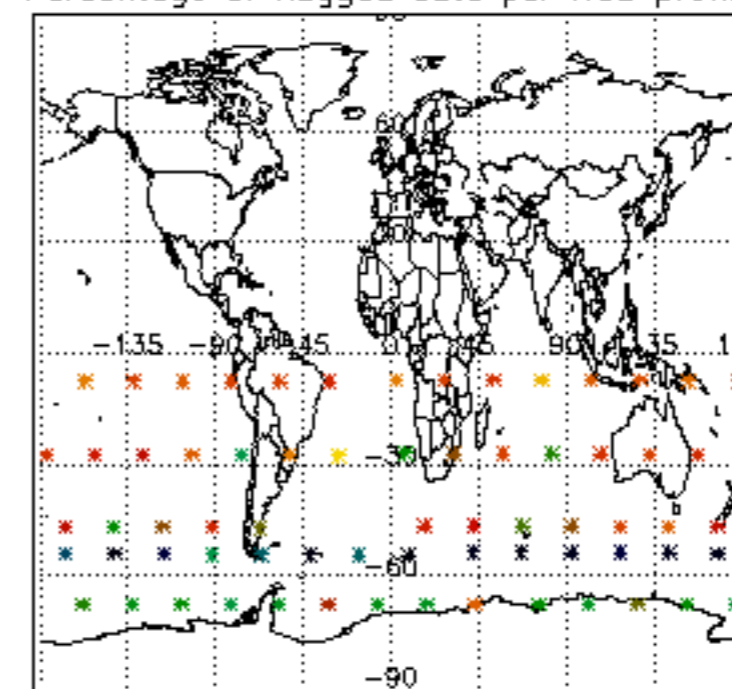
Percentage of flagged data per H2O profile

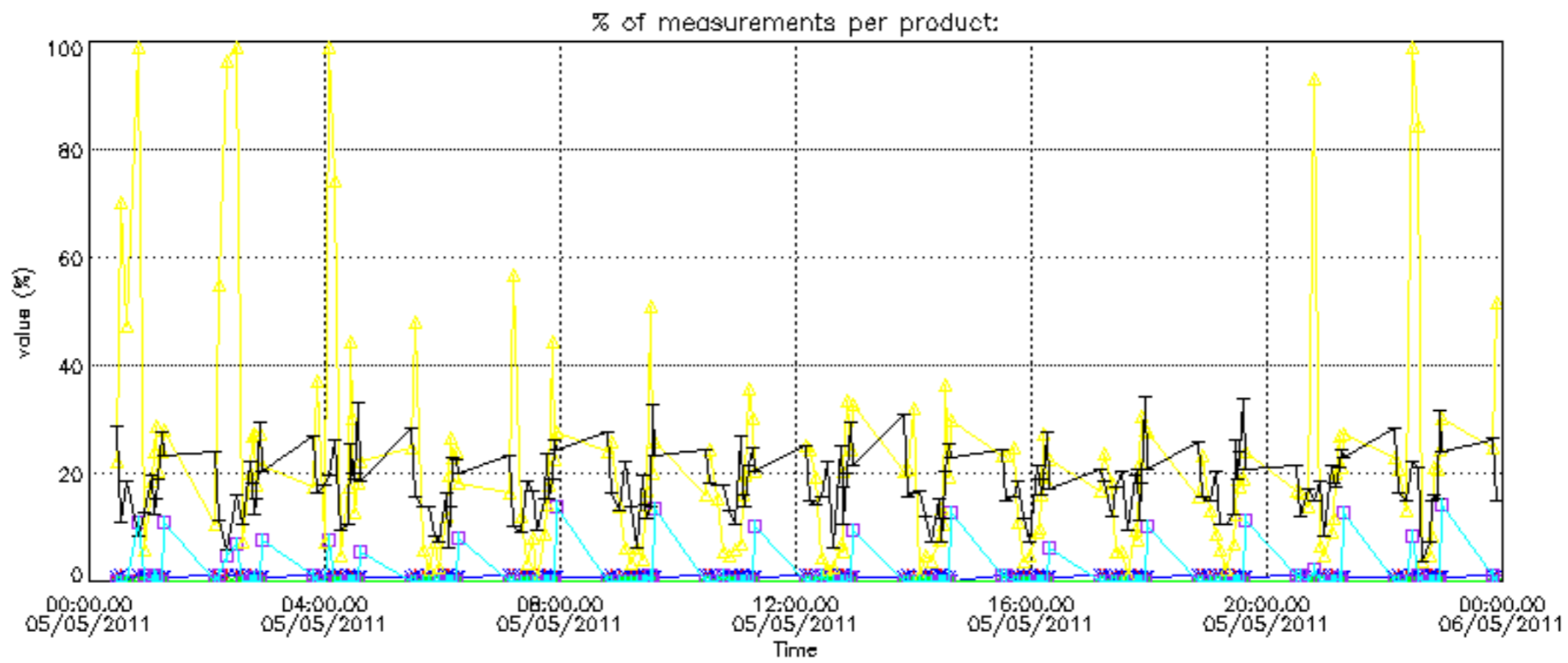


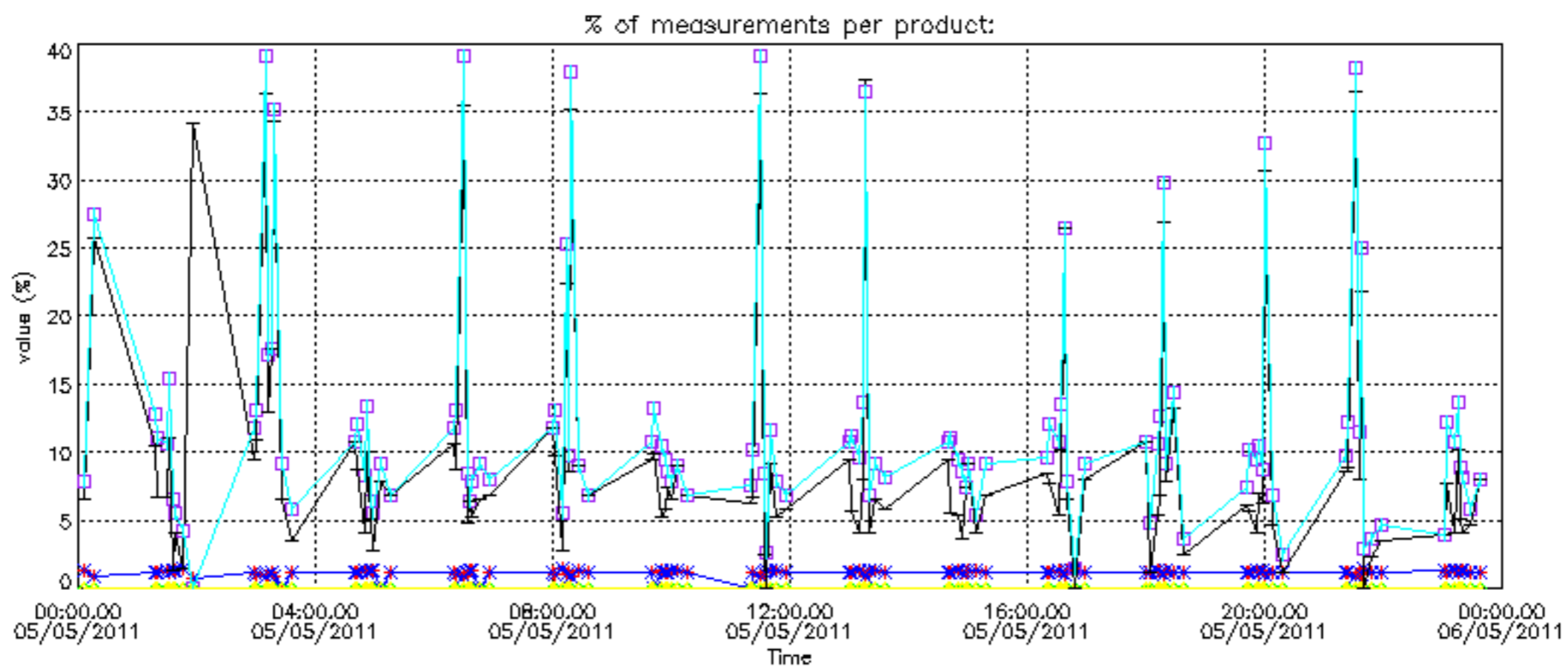
Percentage of flagged data per NO2 profile



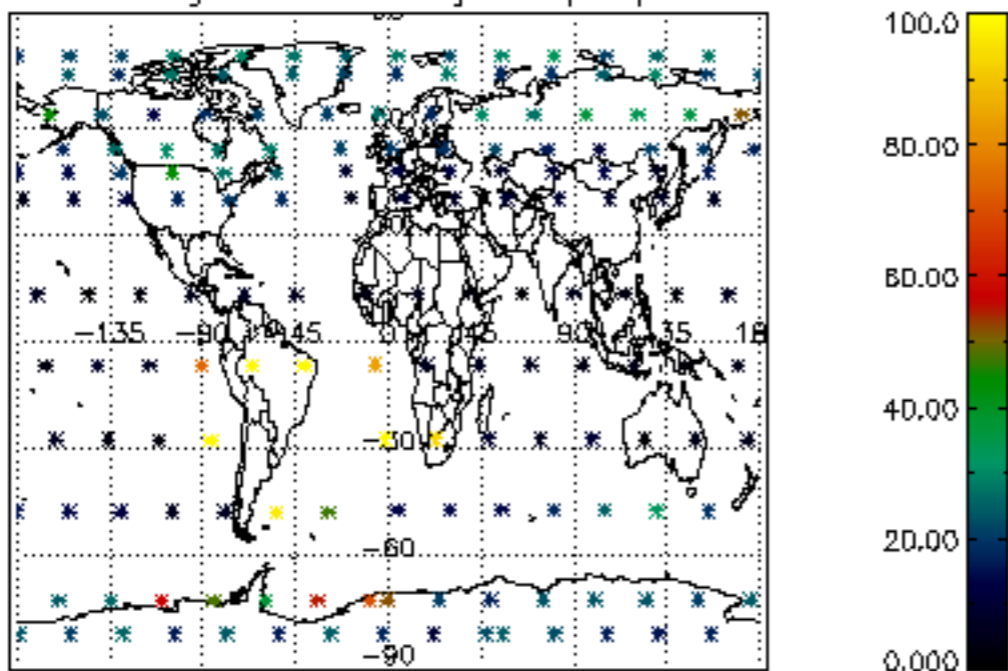
Percentage of flagged data per NO3 profile



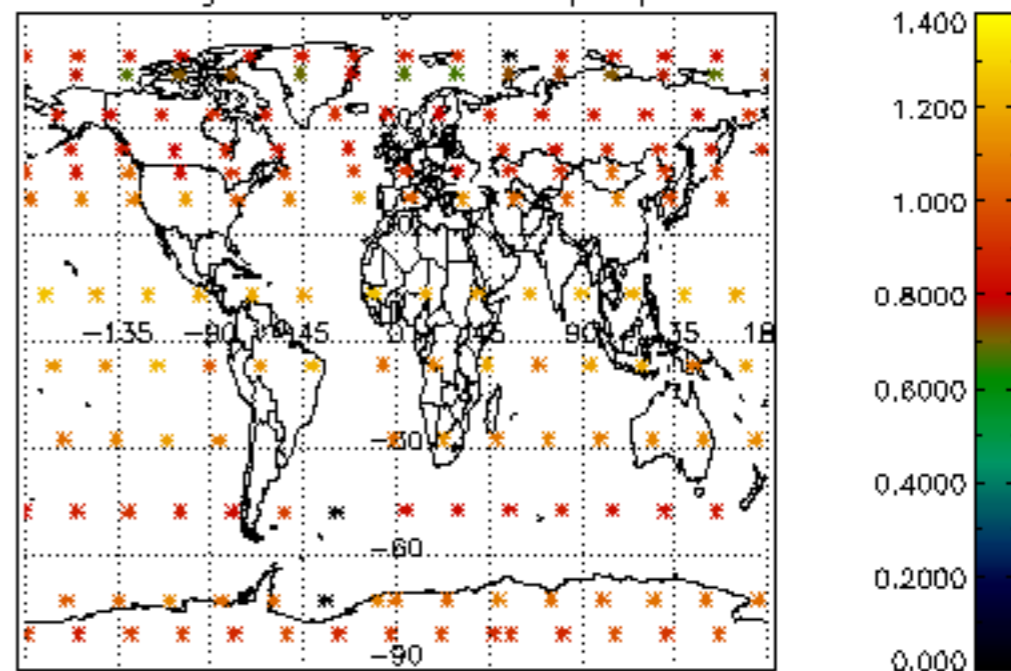




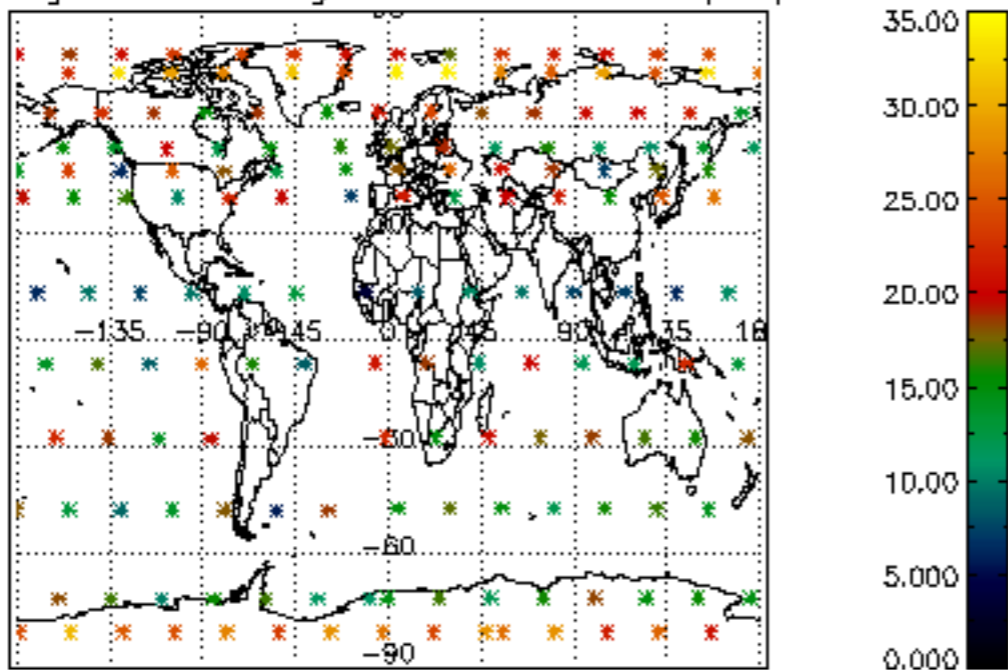
Percentage of cosmic ray hits per profile



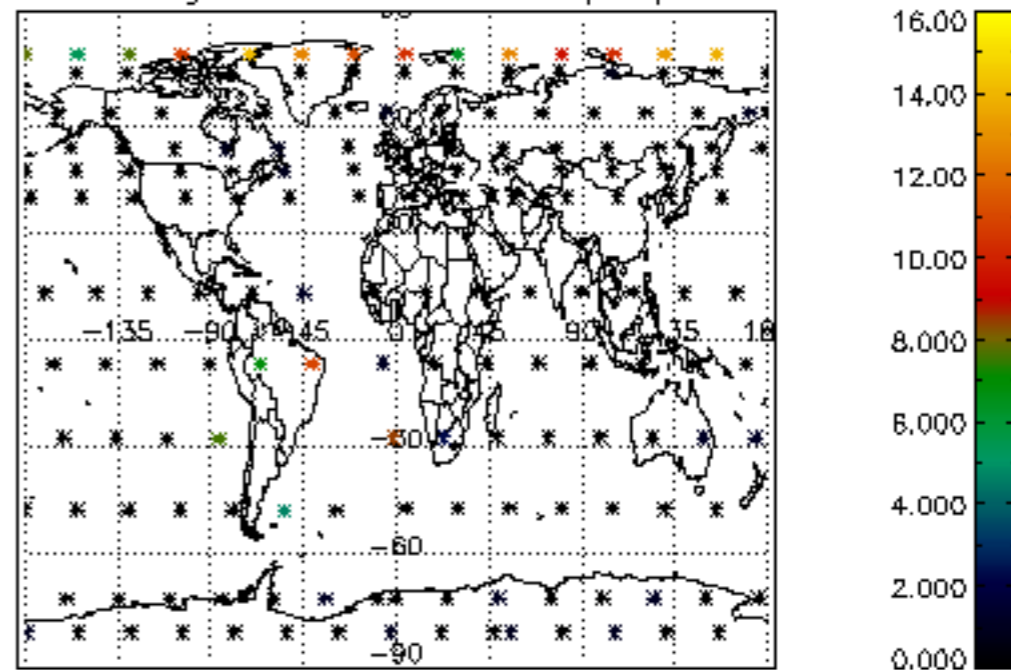
Percentage of datation errors per profile



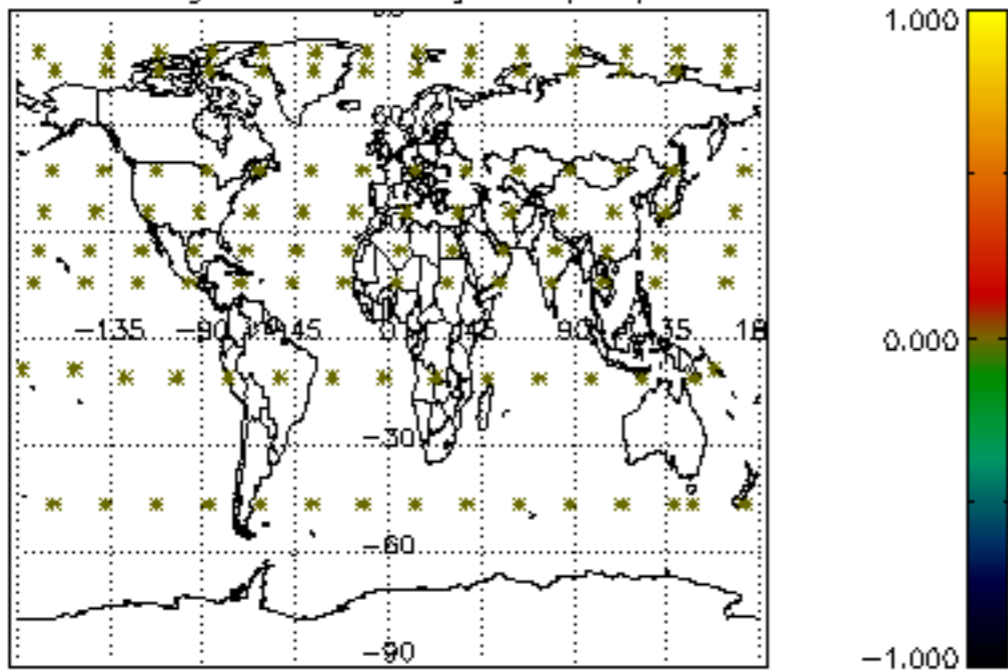
Percentage of star falling outside central band per profile



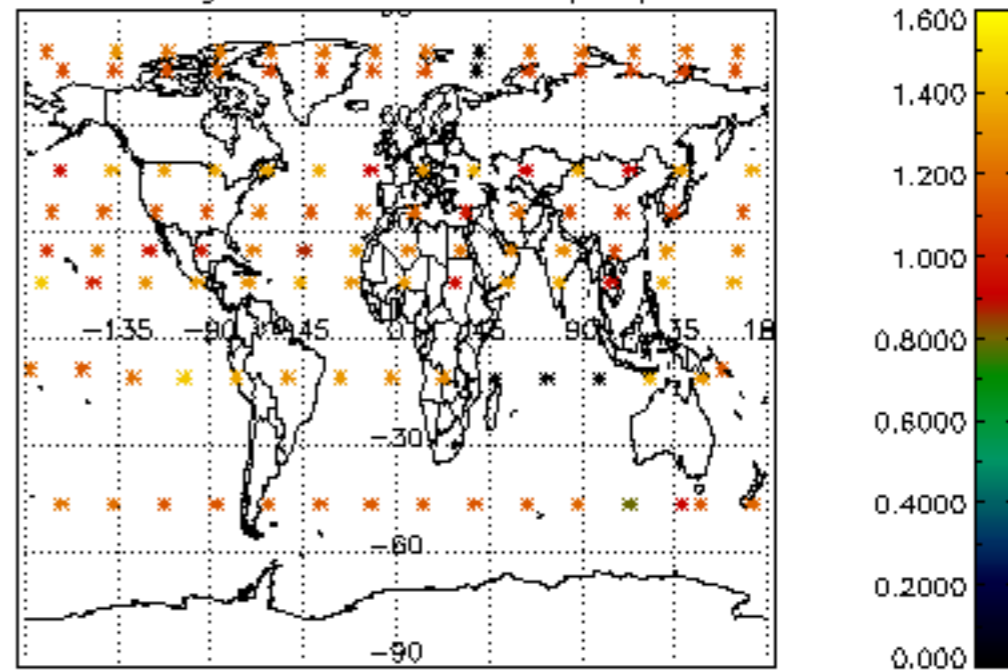
Percentage of saturation errors per profile



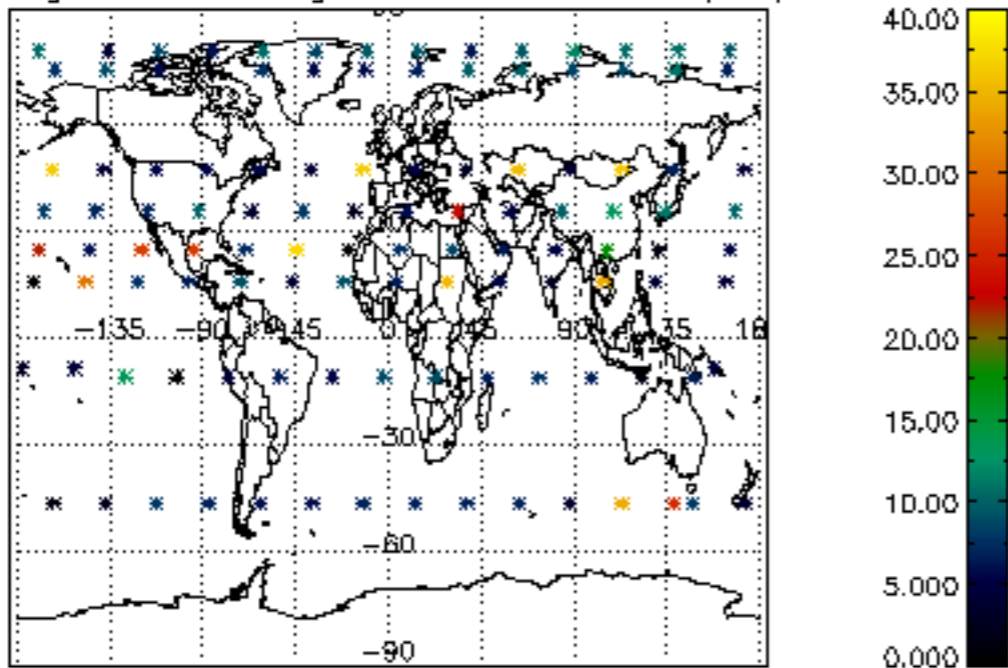
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

