

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	26APR2013 09:23:00
Data source version	GOMOS/6.01
Start time of products	09-05-2009 (09MAY2009 00:00:00)
Stop time of products	10-05-2009 (10MAY2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	197
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

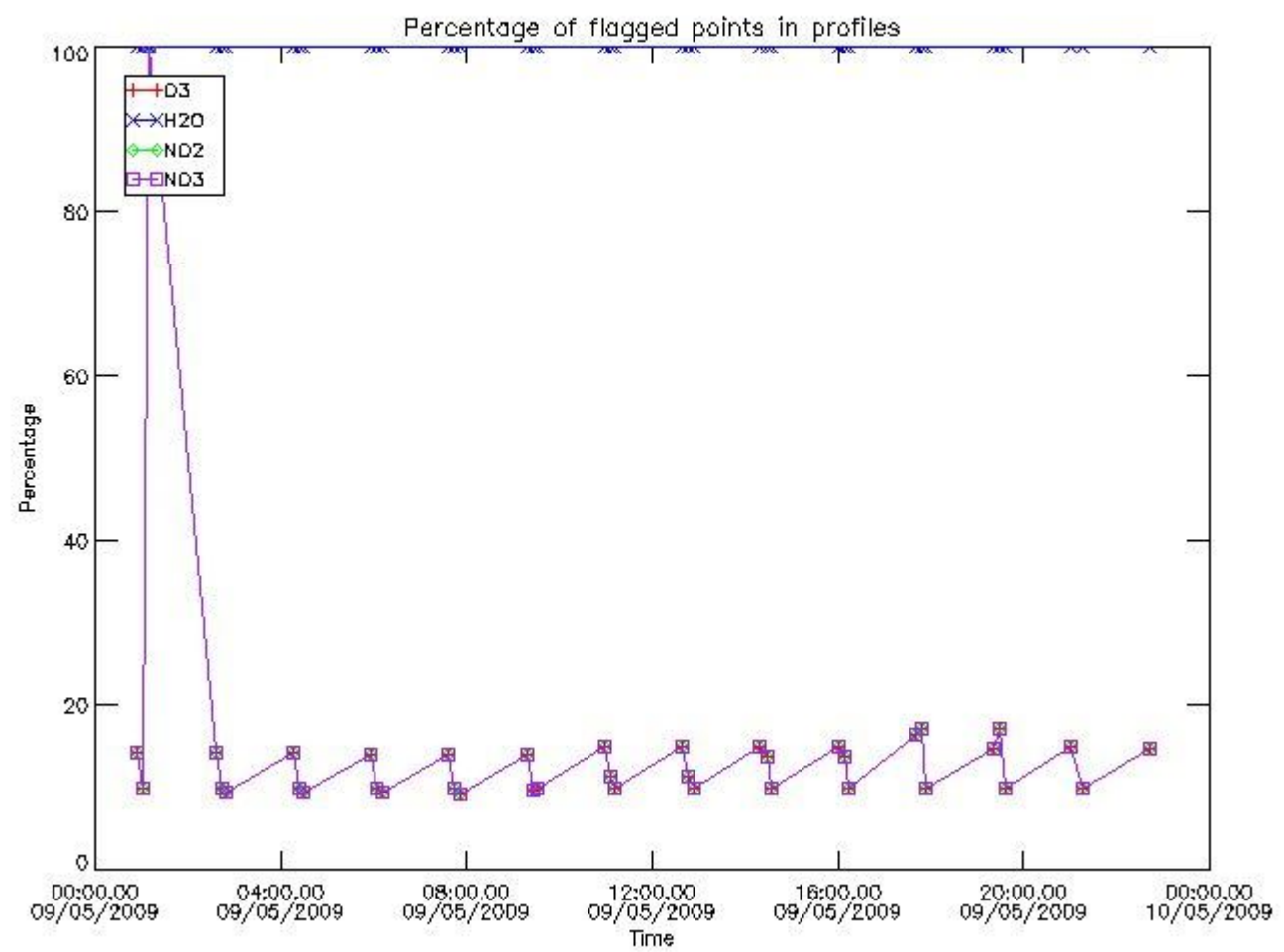
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090509_000304_000000412078_00460_37588_3530.N1	09-MAY-2009 00:03:04	Bright	41.000	104	27Bet Lib	2.6140	13100.	82	37588	No
2	GOM_NL__2PRFIN20090509_000902_000000512078_00460_37588_3531.N1	09-MAY-2009 00:09:02	Bright	51.000	102	24Alp Ser	2.6000	4250.0	102	37588	No
3	GOM_NL__2PRFIN20090509_001426_000000422078_00460_37588_3532.N1	09-MAY-2009 00:14:26	Bright	41.500	83		2.3780	11000.	83	37588	No
4	GOM_NL__2PRFIN20090509_002642_000000392078_00460_37588_3533.N1	09-MAY-2009 00:26:42	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	37588	No
5	GOM_NL__2PRFIN20090509_003728_000000372078_00460_37588_3534.N1	09-MAY-2009 00:37:28	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	37588	No
6	GOM_NL__2PRFIN20090509_005017_000000352078_00460_37588_3535.N1	09-MAY-2009 00:50:17	Twilight	35.000	93	53Bet Peg	2.5200	3100.0	70	37588	No
7	GOM_NL__2PRFIN20090509_005435_000000362078_00460_37588_3536.N1	09-MAY-2009 00:54:35	Dark	36.000	90	54Alp Peg	2.4870	11000.	72	37588	No
8	GOM_NL__2PRFIN20090509_010228_000000522078_00460_37588_3537.N1	09-MAY-2009 01:02:28	Dark	51.500	162	34Alp Aqr	2.9440	5350.0	103	37588	No
9	GOM_NL__2PRFIN20090509_010834_000000552078_00460_37588_3538.N1	09-MAY-2009 01:08:34	Dark	54.500	142	49Del Cap	2.8500	8900.0	109	37588	No
10	GOM_NL__2PRFIN20090509_012857_000000472078_00461_37589_3539.N1	09-MAY-2009 01:28:57	Straylight	46.500	40	The Sco	1.8590	7100.0	93	37589	No
11	GOM_NL__2PRFIN20090509_013049_000000502078_00461_37589_3540.N1	09-MAY-2009 01:30:49	Straylight	49.500	25	35Lam Sco	1.6200	28000.	99	37589	No
12	GOM_NL__2PRFIN20090509_013329_000000462078_00461_37589_3541.N1	09-MAY-2009 01:33:29	Straylight	46.000	75	26Eps Sco	2.2910	4250.0	92	37589	No
13	GOM_NL__2PRFIN20090509_013651_000000482078_00461_37589_3542.N1	09-MAY-2009 01:36:51	Twilight	47.500	16	21Alp Sco	1.0200	3000.0	95	37589	No
14	GOM_NL__2PRFIN20090509_013847_000000442078_00461_37589_3543.N1	09-MAY-2009 01:38:47	Bright	43.500	80	7Del Sco	2.3160	30000.	87	37589	No
15	GOM_NL__2PRFIN20090509_014340_000000432078_00461_37589_3544.N1	09-MAY-2009 01:43:40	Bright	42.500	104	27Bet Lib	2.6140	13100.	85	37589	No
16	GOM_NL__2PRFIN20090509_014938_000000502078_00461_37589_3545.N1	09-MAY-2009 01:49:38	Bright	49.500	102	24Alp Ser	2.6000	4250.0	99	37589	No
17	GOM_NL__2PRFIN20090509_015502_000000402078_00461_37589_3546.N1	09-MAY-2009 01:55:02	Bright	39.500	83		2.3780	11000.	79	37589	No
18	GOM_NL__2PRFIN20090509_020717_000000402078_00461_37589_3547.N1	09-MAY-2009 02:07:17	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	37589	No
19	GOM_NL__2PRFIN20090509_021804_000000372078_00461_37589_3548.N1	09-MAY-2009 02:18:04	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	37589	No
20	GOM_NL__2PRFIN20090509_023053_000000352078_00461_37589_3549.N1	09-MAY-2009 02:30:53	Twilight	35.000	93	53Bet Peg	2.5200	3100.0	70	37589	No
21	GOM_NL__2PRFIN20090509_023511_000000362078_00461_37589_3550.N1	09-MAY-2009 02:35:11	Dark	36.000	90	54Alp Peg	2.4870	11000.	72	37589	No
22	GOM_NL__2PRFIN20090509_024305_000000512078_00461_37589_3551.N1	09-MAY-2009 02:43:05	Dark	51.000	162	34Alp Aqr	2.9440	5350.0	102	37589	No
23	GOM_NL__2PRFIN20090509_024911_000000552078_00461_37589_3552.N1	09-MAY-2009 02:49:11	Dark	54.500	142	49Del Cap	2.8500	8900.0	109	37589	No
24	GOM_NL__2PRFIN20090509_030934_000000472078_00462_37590_3550.N1	09-MAY-2009 03:09:34	Straylight	46.500	40	The Sco	1.8590	7100.0	93	37590	No
25	GOM_NL__2PRFIN20090509_031125_000000502078_00462_37590_3551.N1	09-MAY-2009 03:11:25	Straylight	49.500	25	35Lam Sco	1.6200	28000.	99	37590	No
26	GOM_NL__2PRFIN20090509_031405_000000462078_00462_37590_3552.N1	09-MAY-2009 03:14:05	Straylight	46.000	75	26Eps Sco	2.2910	4250.0	92	37590	No
27	GOM_NL__2PRFIN20090509_031727_000000482078_00462_37590_3553.N1	09-MAY-2009 03:17:27	Twilight	47.500	16	21Alp Sco	1.0200	3000.0	95	37590	No
28	GOM_NL__2PRFIN20090509_031923_000000442078_00462_37590_3554.N1	09-MAY-2009 03:19:23	Bright	44.000	80	7Del Sco	2.3160	30000.	88	37590	No
29	GOM_NL__2PRFIN20090509_032416_000000442078_00462_37590_3555.N1	09-MAY-2009 03:24:16	Bright	44.000	104	27Bet Lib	2.6140	13100.	88	37590	No
30	GOM_NL__2PRFIN20090509_033013_000000492078_00462_37590_3556.N1	09-MAY-2009 03:30:13	Bright	49.000	102	24Alp Ser	2.6000	4250.0	98	37590	No
31	GOM_NL__2PRFIN20090509_033537_000000412078_00462_37590_3557.N1	09-MAY-2009 03:35:37	Bright	40.500	83		2.3780	11000.	81	37590	No
32	GOM_NL__2PRFIN20090509_034752_000000412078_00462_37590_3558.N1	09-MAY-2009 03:47:52	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	37590	No
33	GOM_NL__2PRFIN20090509_035840_000000372078_00462_37590_3559.N1	09-MAY-2009 03:58:40	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	37590	No
34	GOM_NL__2PRFIN20090509_041129_000000352078_00462_37590_3560.N1	09-MAY-2009 04:11:29	Twilight	35.000	93	53Bet Peg	2.5200	3100.0	70	37590	No
35	GOM_NL__2PRFIN20090509_041547_000000362078_00462_37590_3561.N1	09-MAY-2009 04:15:47	Dark	36.000	90	54Alp Peg	2.4870	11000.	72	37590	No
36	GOM_NL__2PRFIN20090509_042343_000000512078_00462_37590_3562.N1	09-MAY-2009 04:23:43	Dark	51.000	162	34Alp Aqr	2.9440	5350.0	102	37590	No
37	GOM_NL__2PRFIN20090509_042949_000000542078_00462_37590_3563.N1	09-MAY-2009 04:29:49	Dark	54.000	142	49Del Cap	2.8500	8900.0	108	37590	No
38	GOM_NL__2PRFIN20090509_045011_000000472078_00463_37591_3569.N1	09-MAY-2009 04:50:11	Straylight	46.500	40	The Sco	1.8590	7100.0	93	37591	No
39	GOM_NL__2PRFIN20090509_045202_000000502078_00463_37591_3570.N1	09-MAY-2009 04:52:02	Straylight	49.500	25	35Lam Sco	1.6200	28000.	99	37591	No
40	GOM_NL__2PRFIN20090509_045442_000000462078_00463_37591_3571.N1	09-MAY-2009 04:54:42	Straylight	46.000	75	26Eps Sco	2.2910	4250.0	92	37591	No
41	GOM_NL__2PRFIN20090509_045804_000000472078_00463_37591_3572.N1	09-MAY-2009 04:58:04	Twilight	47.000	16	21Alp Sco	1.0200	3000.0	94	37591	No
42	GOM_NL__2PRFIN20090509_045959_000000442078_00463_37591_3573.N1	09-MAY-2009 04:59:59	Bright	44.000	80	7Del Sco	2.3160	30000.	88	37591	No

161	GOM_NL__2PRFIN20090509_192114_000000352078_00471_37599_3713.N1	09-MAY-2009 19:21:14	Dark	34.500	90	54Alp Peg	2.4870	11000.	69	37599	No
162	GOM_NL__2PRFIN20090509_192916_000000302078_00471_37599_3714.N1	09-MAY-2009 19:29:16	Dark	30.000	162	34Alp Aqr	2.9440	5350.0	60	37599	No
163	GOM_NL__2PRFIN20090509_193525_000000522078_00471_37599_3715.N1	09-MAY-2009 19:35:25	Dark	51.500	142	49Del Cap	2.8500	8900.0	103	37599	No
164	GOM_NL__2PRFIN20090509_195541_000000432078_00472_37600_3713.N1	09-MAY-2009 19:55:41	Straylight	43.000	40	The Sco	1.8590	7100.0	86	37600	No
165	GOM_NL__2PRFIN20090509_195732_000000462078_00472_37600_3714.N1	09-MAY-2009 19:57:32	Straylight	46.000	25	35Lam Sco	1.6200	28000.	92	37600	No
166	GOM_NL__2PRFIN20090509_200010_000000432078_00472_37600_3715.N1	09-MAY-2009 20:00:10	Straylight	43.000	75	26Eps Sco	2.2910	4250.0	86	37600	No
167	GOM_NL__2PRFIN20090509_200331_000000442078_00472_37600_3716.N1	09-MAY-2009 20:03:31	Twilight_stray	44.000	16	21Alp Sco	1.0200	3000.0	88	37600	No
168	GOM_NL__2PRFIN20090509_200525_000000412078_00472_37600_3717.N1	09-MAY-2009 20:05:25	Bright	40.500	80	7Del Sco	2.3160	30000.	81	37600	No
169	GOM_NL__2PRFIN20090509_201015_000000382078_00472_37600_3718.N1	09-MAY-2009 20:10:15	Bright	37.500	104	27Bet Lib	2.6140	13100.	75	37600	No
170	GOM_NL__2PRFIN20090509_201608_000000462078_00472_37600_3719.N1	09-MAY-2009 20:16:08	Bright	45.500	102	24Alp Ser	2.6000	4250.0	91	37600	No
171	GOM_NL__2PRFIN20090509_202134_000000382078_00472_37600_3720.N1	09-MAY-2009 20:21:34	Bright	38.000	83		2.3780	11000.	76	37600	No
172	GOM_NL__2PRFIN20090509_203346_000000392078_00472_37600_3721.N1	09-MAY-2009 20:33:46	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	37600	No
173	GOM_NL__2PRFIN20090509_204435_000000352078_00472_37600_3722.N1	09-MAY-2009 20:44:35	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	37600	No
174	GOM_NL__2PRFIN20090509_205731_000000332078_00472_37600_3723.N1	09-MAY-2009 20:57:31	Twilight_stray	33.000	93	53Bet Peg	2.5200	3100.0	66	37600	No
175	GOM_NL__2PRFIN20090509_210151_000000342078_00472_37600_3724.N1	09-MAY-2009 21:01:51	Dark	33.500	90	54Alp Peg	2.4870	11000.	67	37600	No
176	GOM_NL__2PRFIN20090509_211602_000000522078_00472_37600_3725.N1	09-MAY-2009 21:16:02	Dark	52.000	142	49Del Cap	2.8500	8900.0	104	37600	No
177	GOM_NL__2PRFIN20090509_213618_000000432078_00473_37601_3737.N1	09-MAY-2009 21:36:18	Straylight	42.500	40	The Sco	1.8590	7100.0	85	37601	No
178	GOM_NL__2PRFIN20090509_213809_000000462078_00473_37601_3738.N1	09-MAY-2009 21:38:09	Straylight	46.000	25	35Lam Sco	1.6200	28000.	92	37601	No
179	GOM_NL__2PRFIN20090509_214047_000000432078_00473_37601_3739.N1	09-MAY-2009 21:40:47	Straylight	43.000	75	26Eps Sco	2.2910	4250.0	86	37601	No
180	GOM_NL__2PRFIN20090509_214407_000000442078_00473_37601_3740.N1	09-MAY-2009 21:44:07	Twilight_stray	44.000	16	21Alp Sco	1.0200	3000.0	88	37601	No
181	GOM_NL__2PRFIN20090509_214601_000000412078_00473_37601_3741.N1	09-MAY-2009 21:46:01	Bright	40.500	80	7Del Sco	2.3160	30000.	81	37601	No
182	GOM_NL__2PRFIN20090509_215051_000000382078_00473_37601_3742.N1	09-MAY-2009 21:50:51	Bright	38.000	104	27Bet Lib	2.6140	13100.	76	37601	No
183	GOM_NL__2PRFIN20090509_215643_000000462078_00473_37601_3743.N1	09-MAY-2009 21:56:43	Bright	45.500	102	24Alp Ser	2.6000	4250.0	91	37601	No
184	GOM_NL__2PRFIN20090509_220209_000000392078_00473_37601_3744.N1	09-MAY-2009 22:02:09	Bright	39.000	83		2.3780	11000.	78	37601	No
185	GOM_NL__2PRFIN20090509_221421_000000392078_00473_37601_3745.N1	09-MAY-2009 22:14:21	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	37601	No
186	GOM_NL__2PRFIN20090509_222510_000000362078_00473_37601_3746.N1	09-MAY-2009 22:25:10	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	37601	No
187	GOM_NL__2PRFIN20090509_223807_000000342078_00473_37601_3747.N1	09-MAY-2009 22:38:07	Twilight_stray	33.500	93	53Bet Peg	2.5200	3100.0	67	37601	No
188	GOM_NL__2PRFIN20090509_224227_000000352078_00473_37601_3748.N1	09-MAY-2009 22:42:27	Dark	34.500	90	54Alp Peg	2.4870	11000.	69	37601	No
189	GOM_NL__2PRFIN20090509_231654_000000432078_00474_37602_3753.N1	09-MAY-2009 23:16:54	Straylight	42.500	40	The Sco	1.8590	7100.0	85	37602	No
190	GOM_NL__2PRFIN20090509_231846_000000462078_00474_37602_3754.N1	09-MAY-2009 23:18:46	Straylight	46.000	25	35Lam Sco	1.6200	28000.	92	37602	No
191	GOM_NL__2PRFIN20090509_232123_000000432078_00474_37602_3755.N1	09-MAY-2009 23:21:23	Straylight	42.500	75	26Eps Sco	2.2910	4250.0	85	37602	No
192	GOM_NL__2PRFIN20090509_232443_000000442078_00474_37602_3756.N1	09-MAY-2009 23:24:43	Twilight_stray	43.500	16	21Alp Sco	1.0200	3000.0	87	37602	No
193	GOM_NL__2PRFIN20090509_232637_000000412078_00474_37602_3757.N1	09-MAY-2009 23:26:37	Bright	40.500	80	7Del Sco	2.3160	30000.	81	37602	No
194	GOM_NL__2PRFIN20090509_233127_000000382078_00474_37602_3758.N1	09-MAY-2009 23:31:27	Bright	37.500	104	27Bet Lib	2.6140	13100.	75	37602	No
195	GOM_NL__2PRFIN20090509_233719_000000472078_00474_37602_3759.N1	09-MAY-2009 23:37:19	Bright	47.000	102	24Alp Ser	2.6000	4250.0	94	37602	No
196	GOM_NL__2PRFIN20090509_234245_000000382078_00474_37602_3760.N1	09-MAY-2009 23:42:45	Bright	37.500	83		2.3780	11000.	75	37602	No
197	GOM_NL__2PRFIN20090509_235457_000000392078_00474_37602_3761.N1	09-MAY-2009 23:54:57	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	37602	No

3. Quality information per product

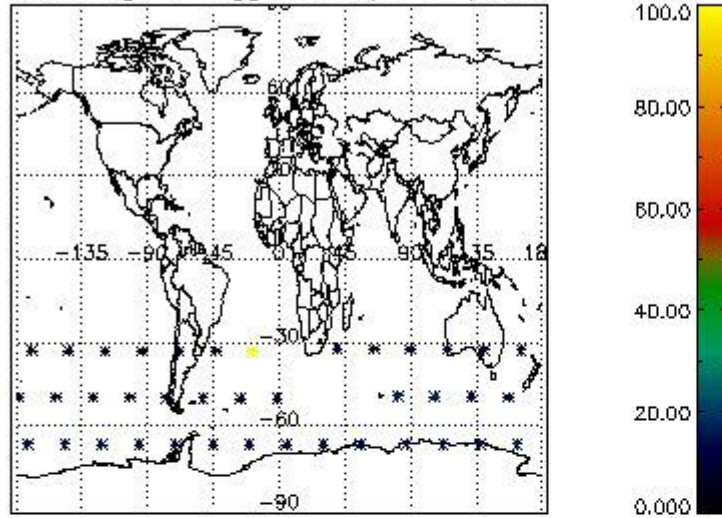
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

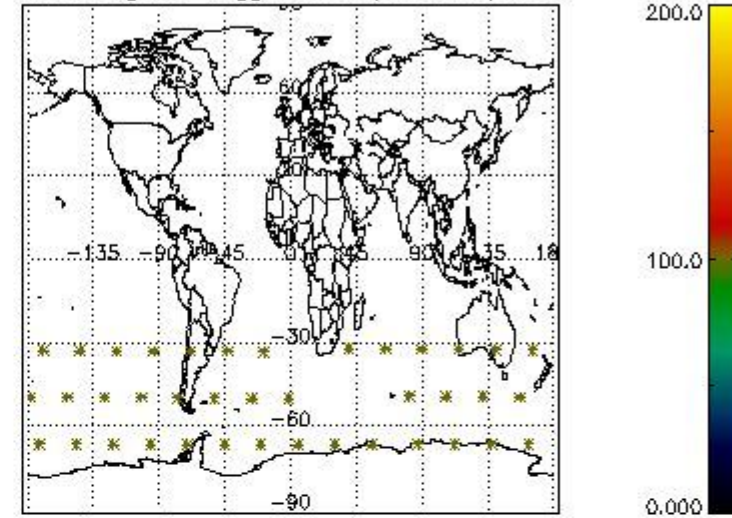


3.2 Plot quality information per product (world map)

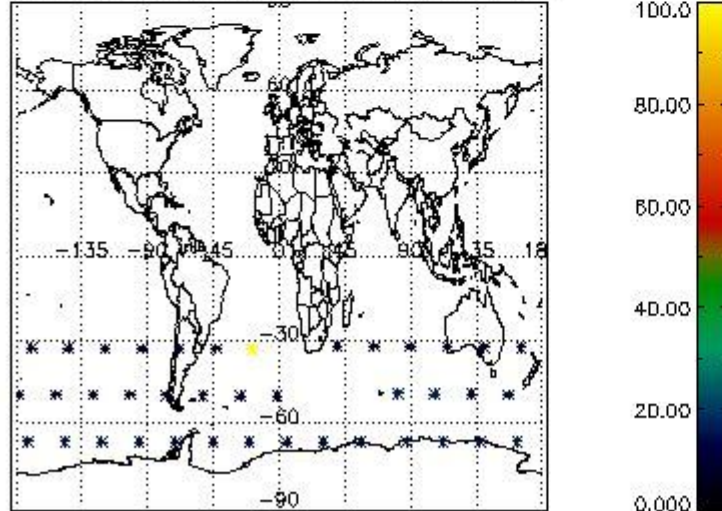
Percentage of flagged data per O3 profile



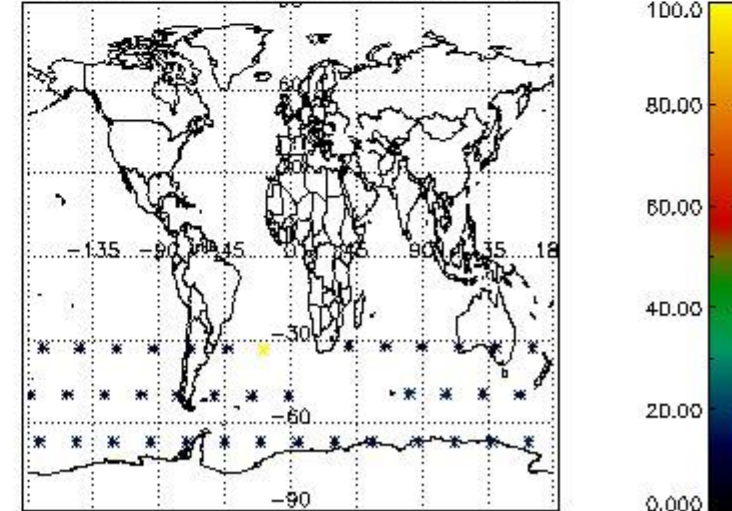
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

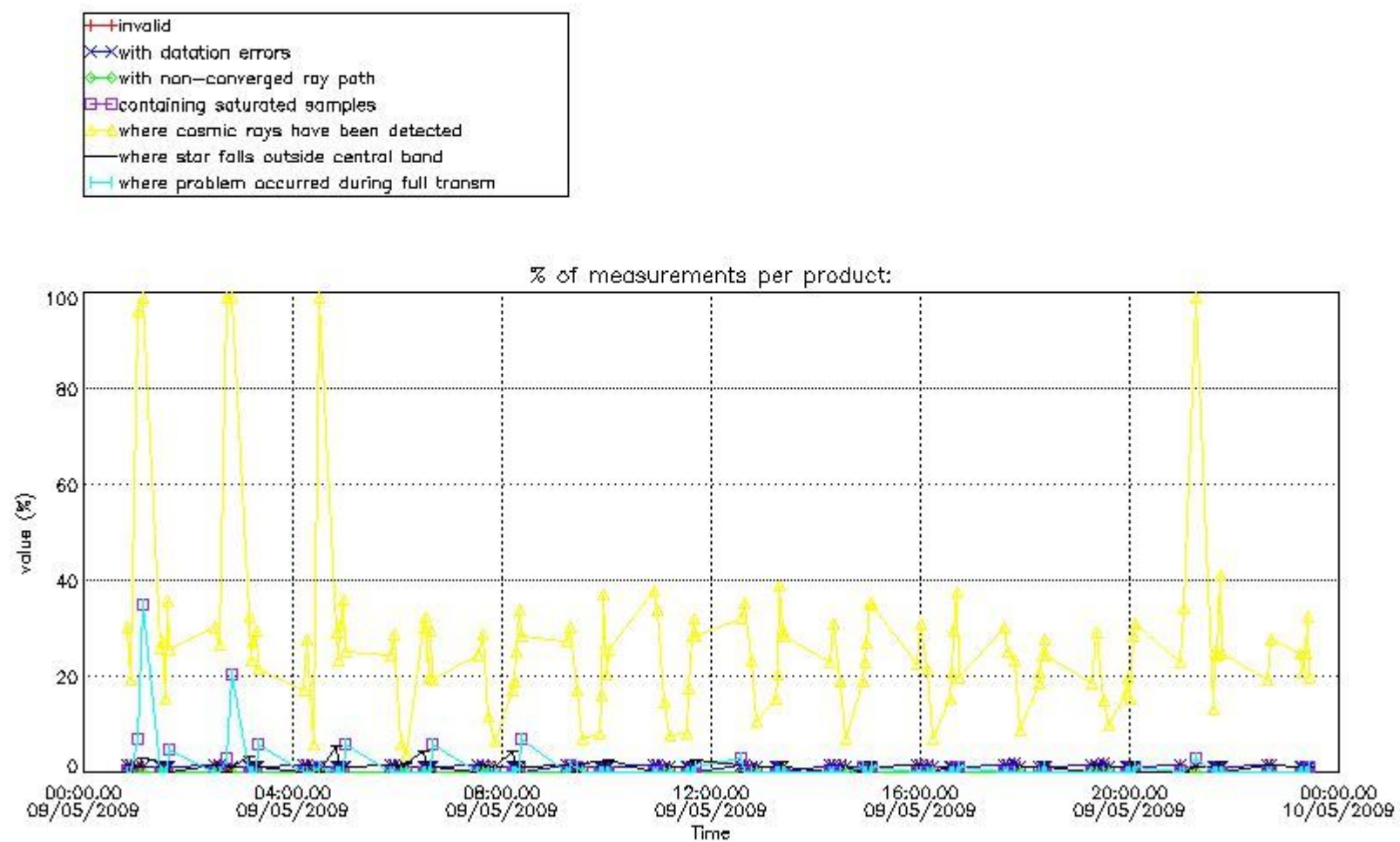


4. Level 1 quality information per product

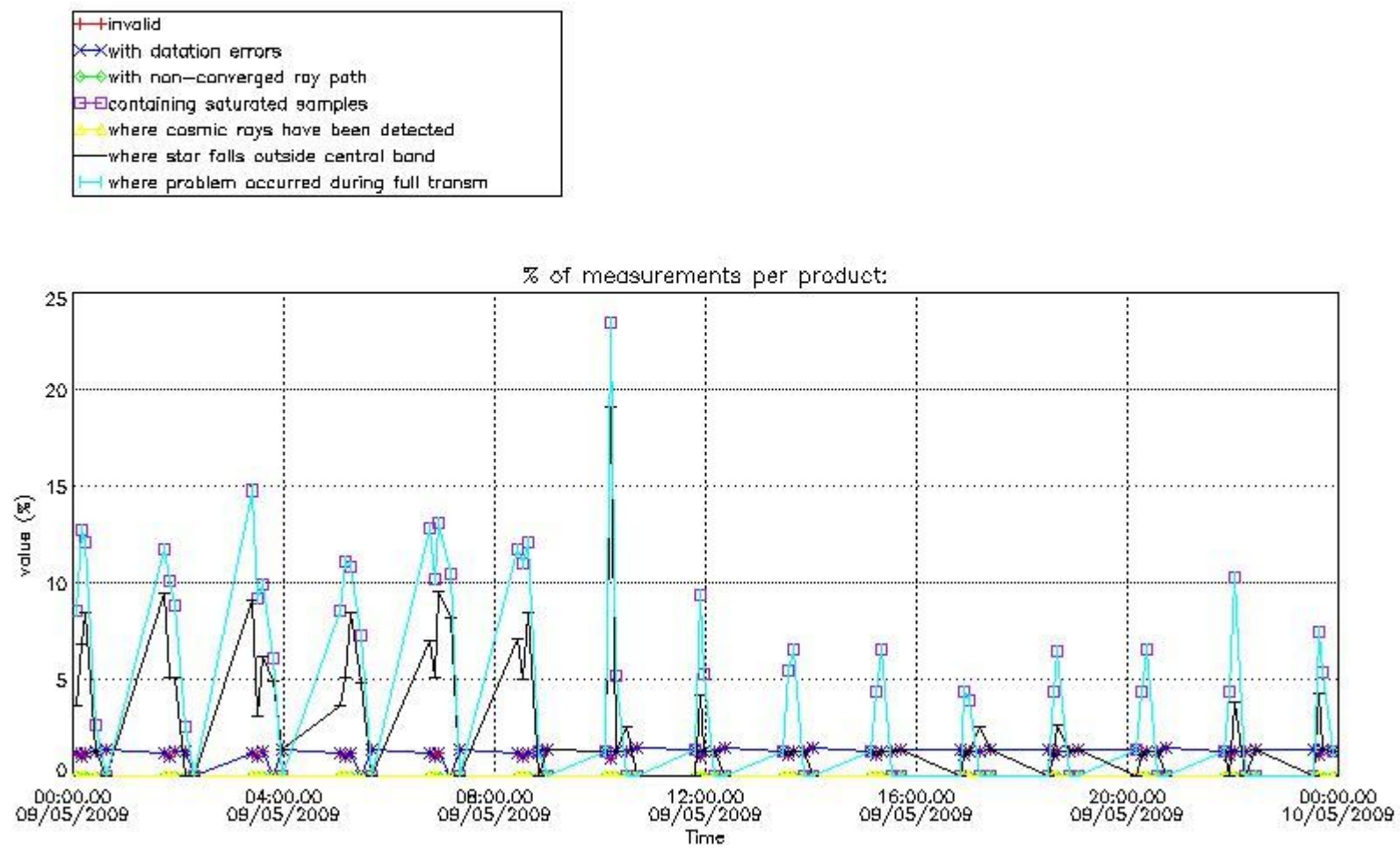
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

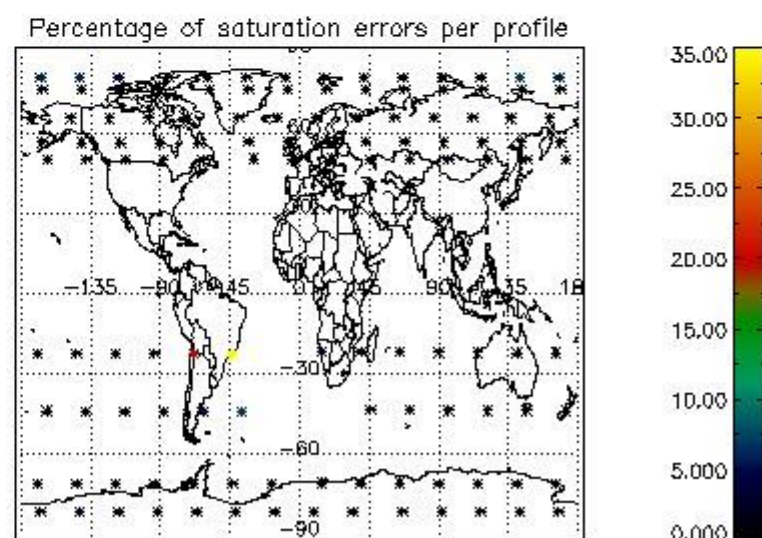
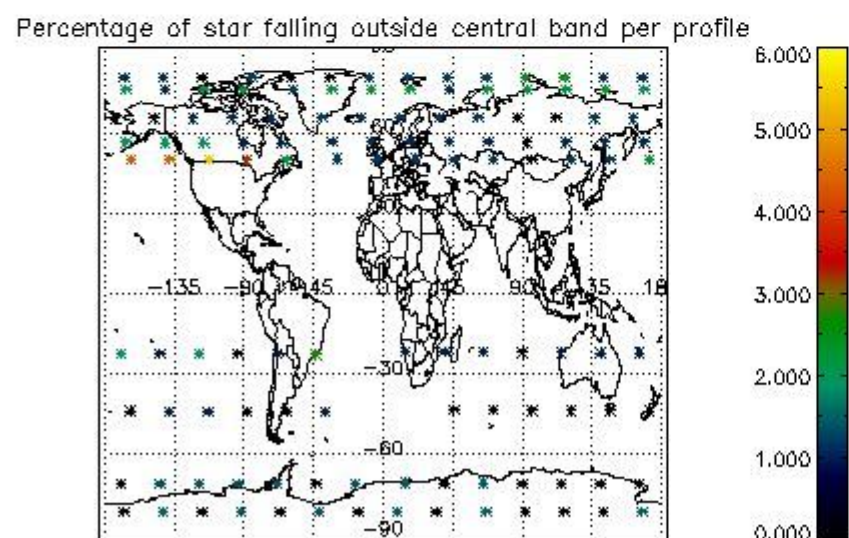
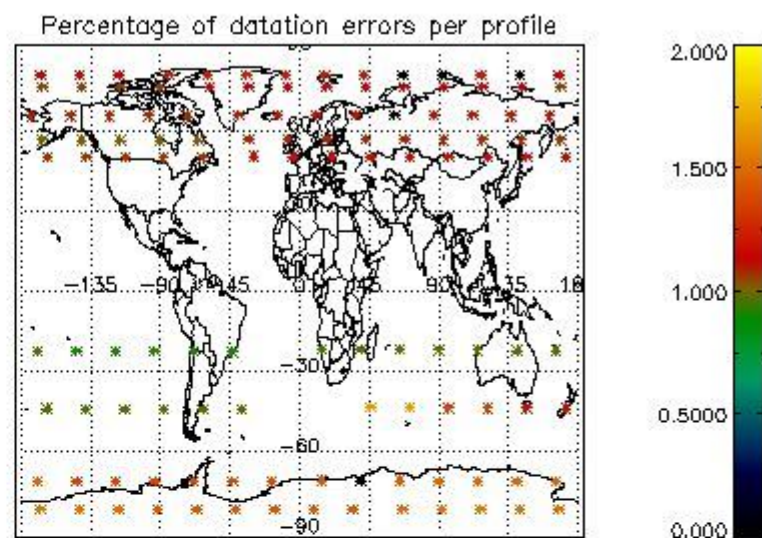
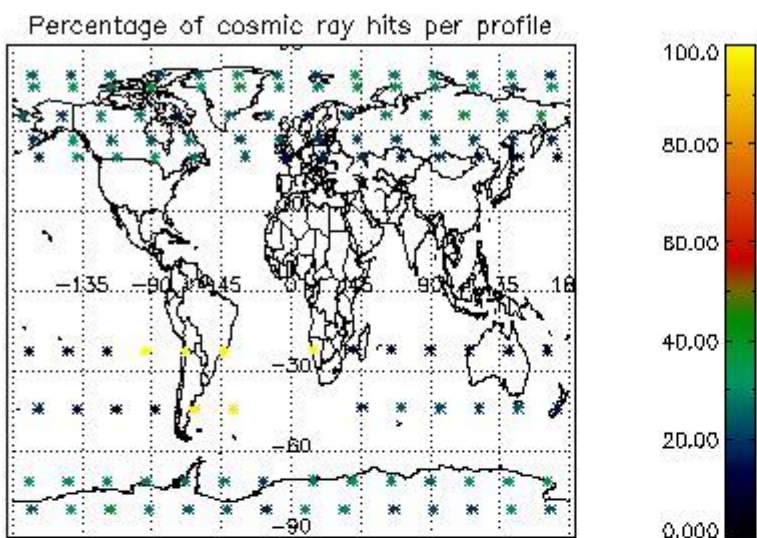


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

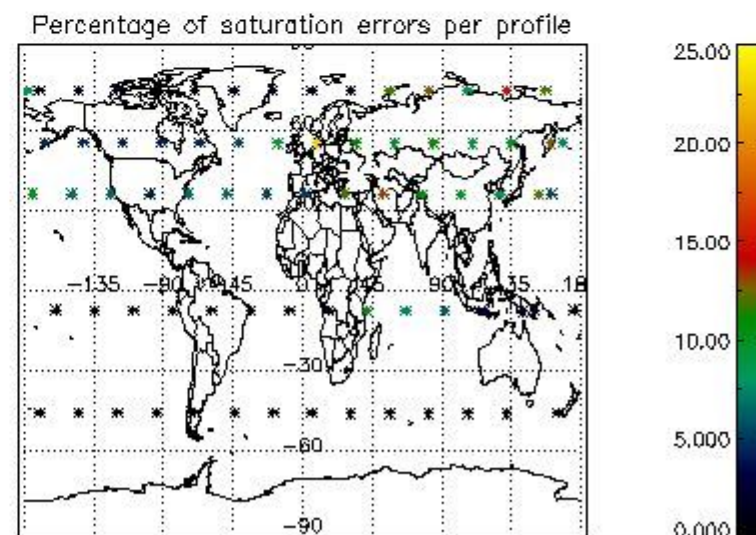
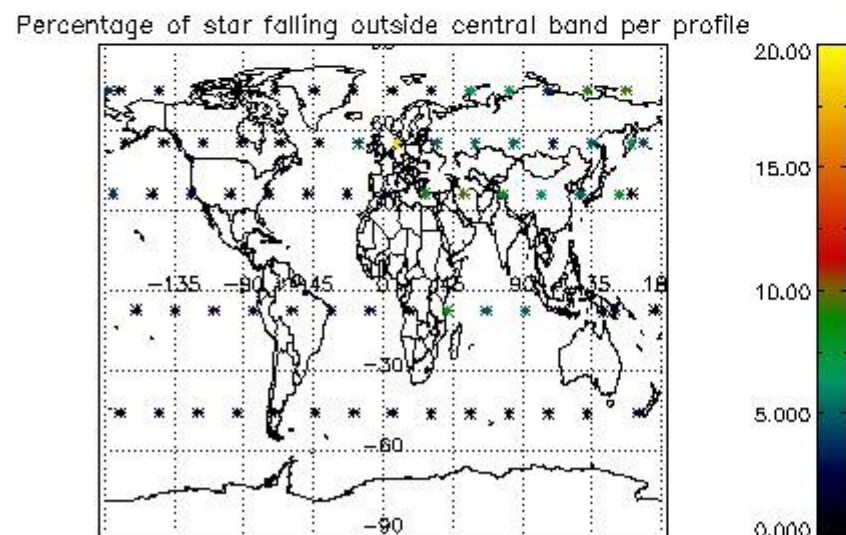
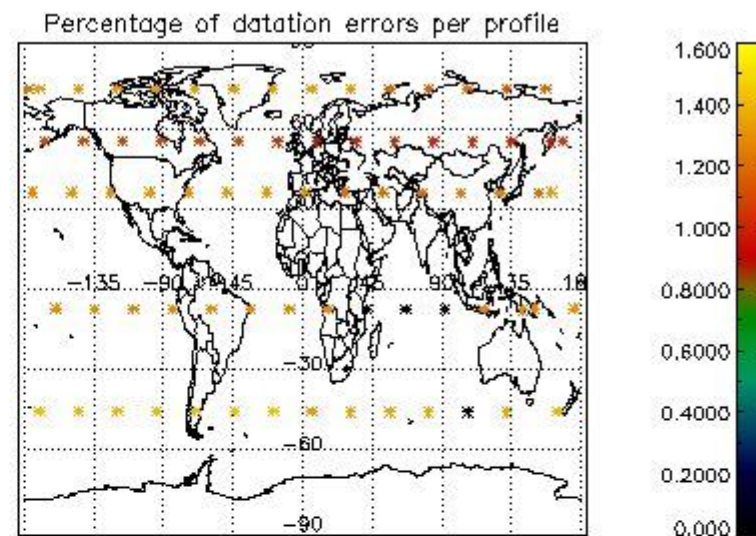
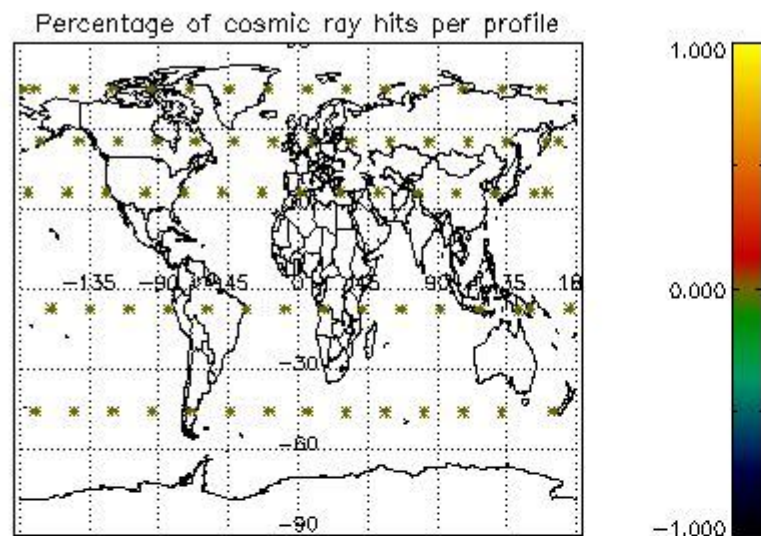


4.2 Plot quality information per product coming from level 1b processing (world map)

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

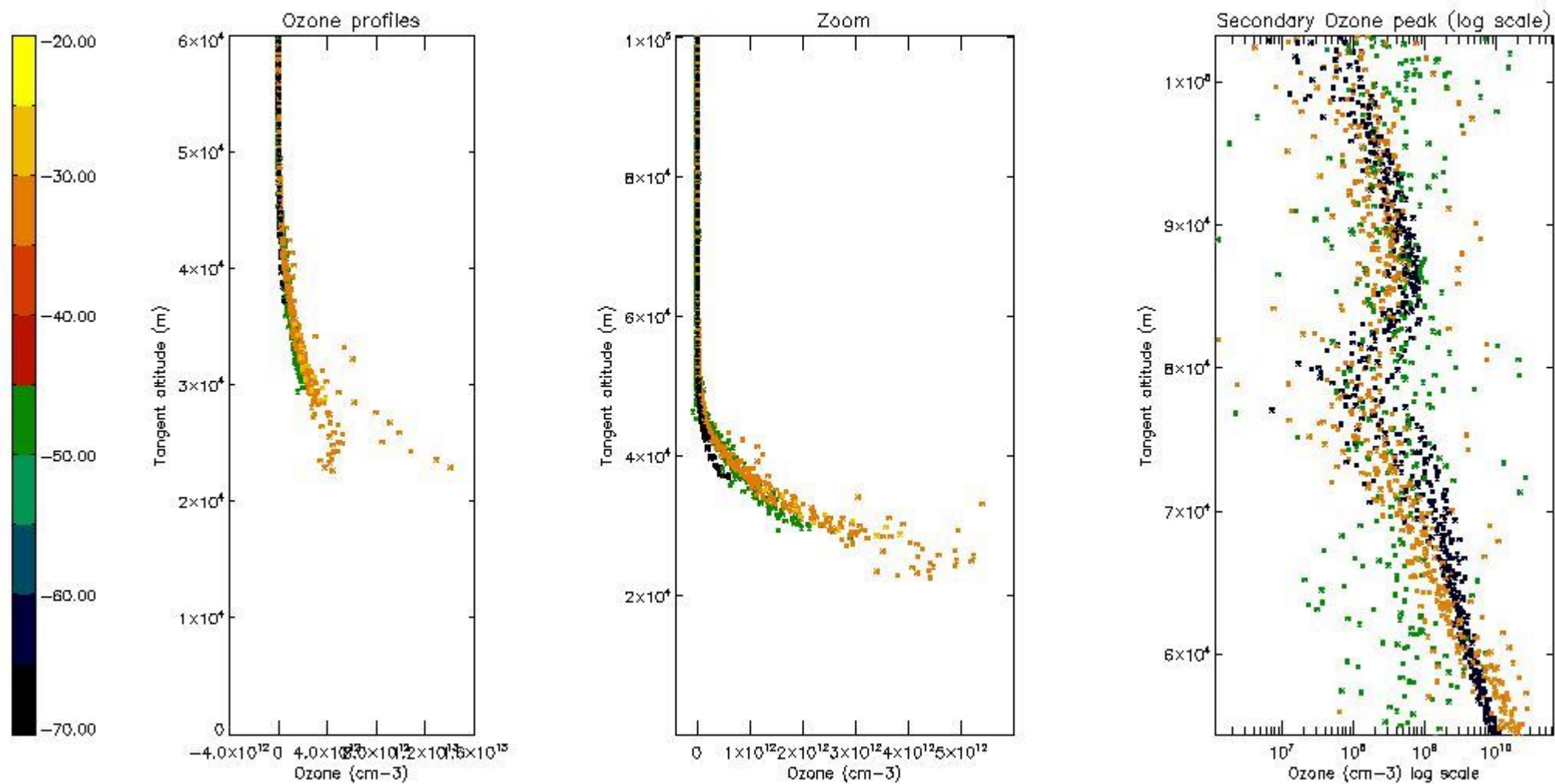
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	20
STD < 20	6

STD < 10	4
STD < 5	1

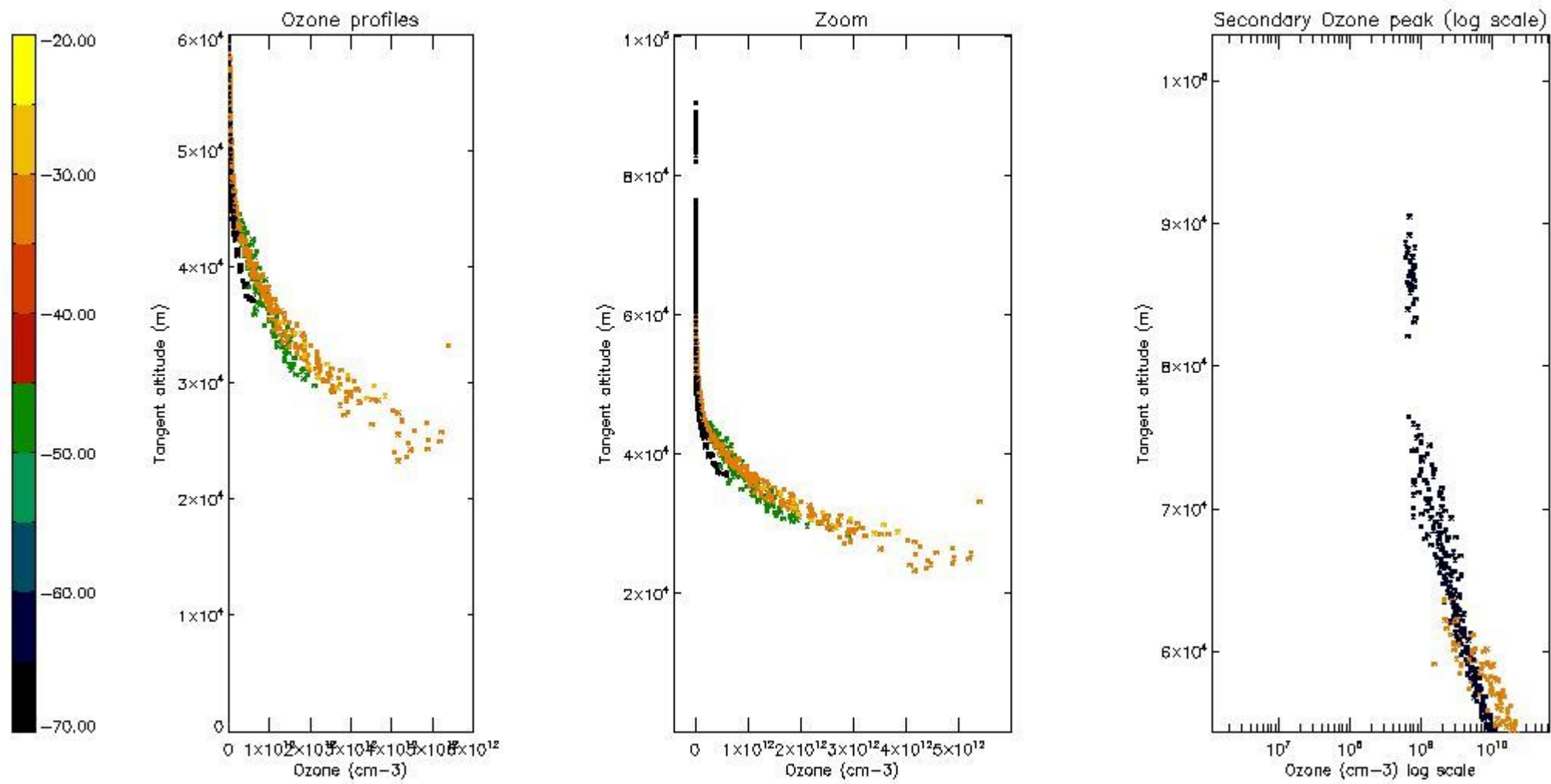
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



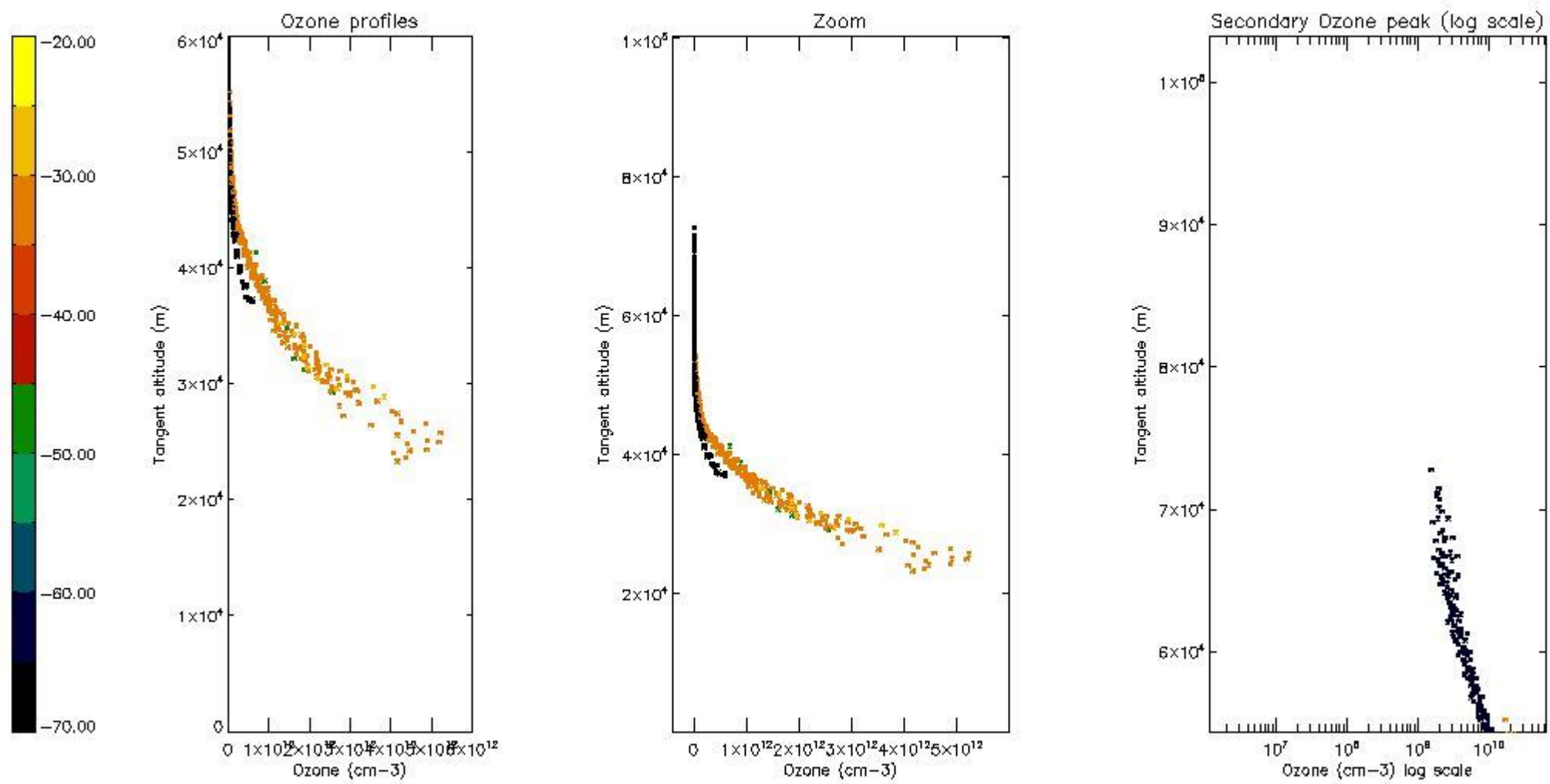
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



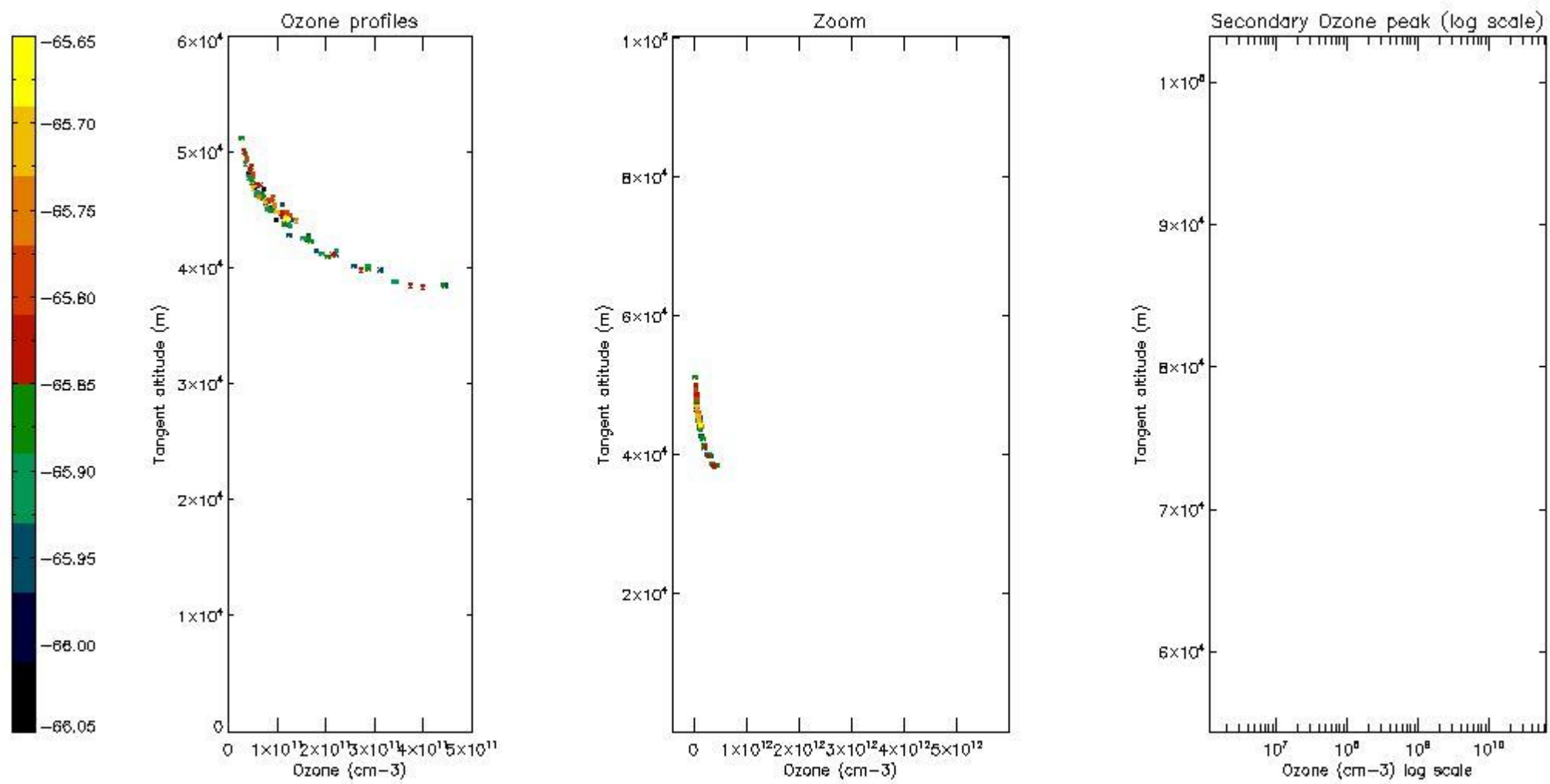
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



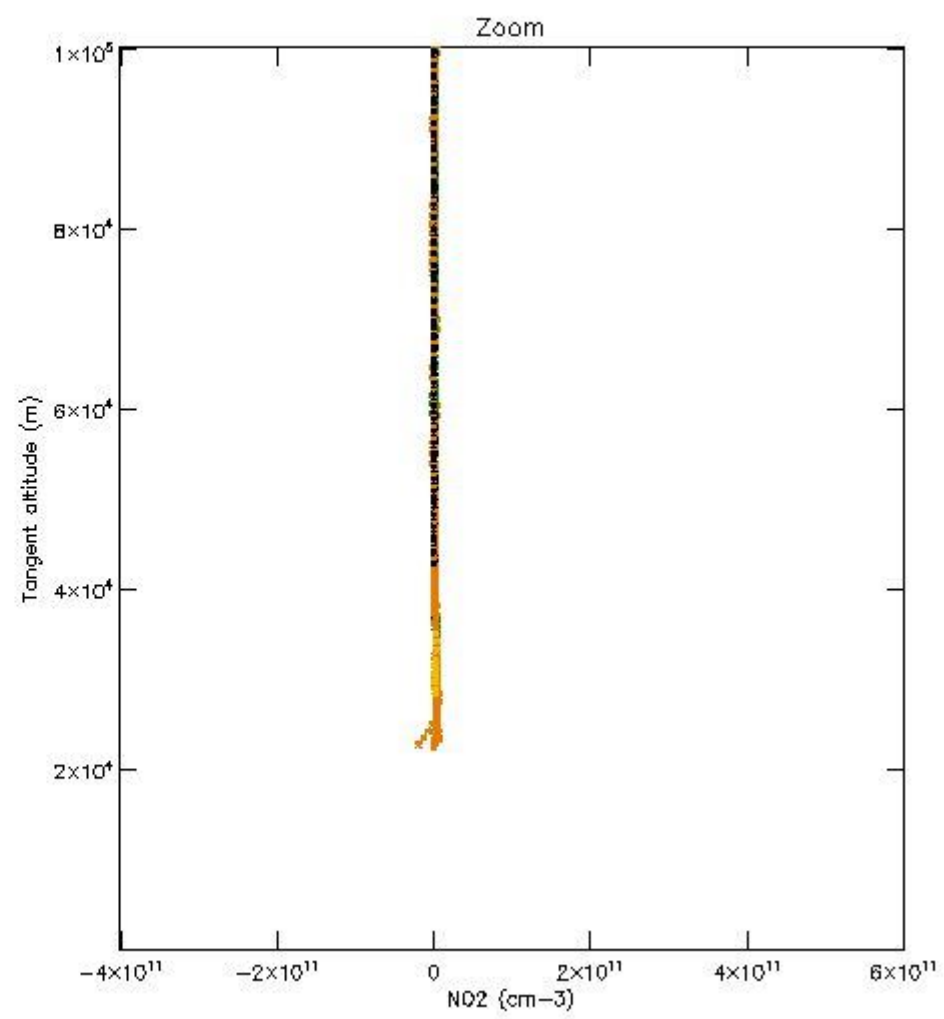
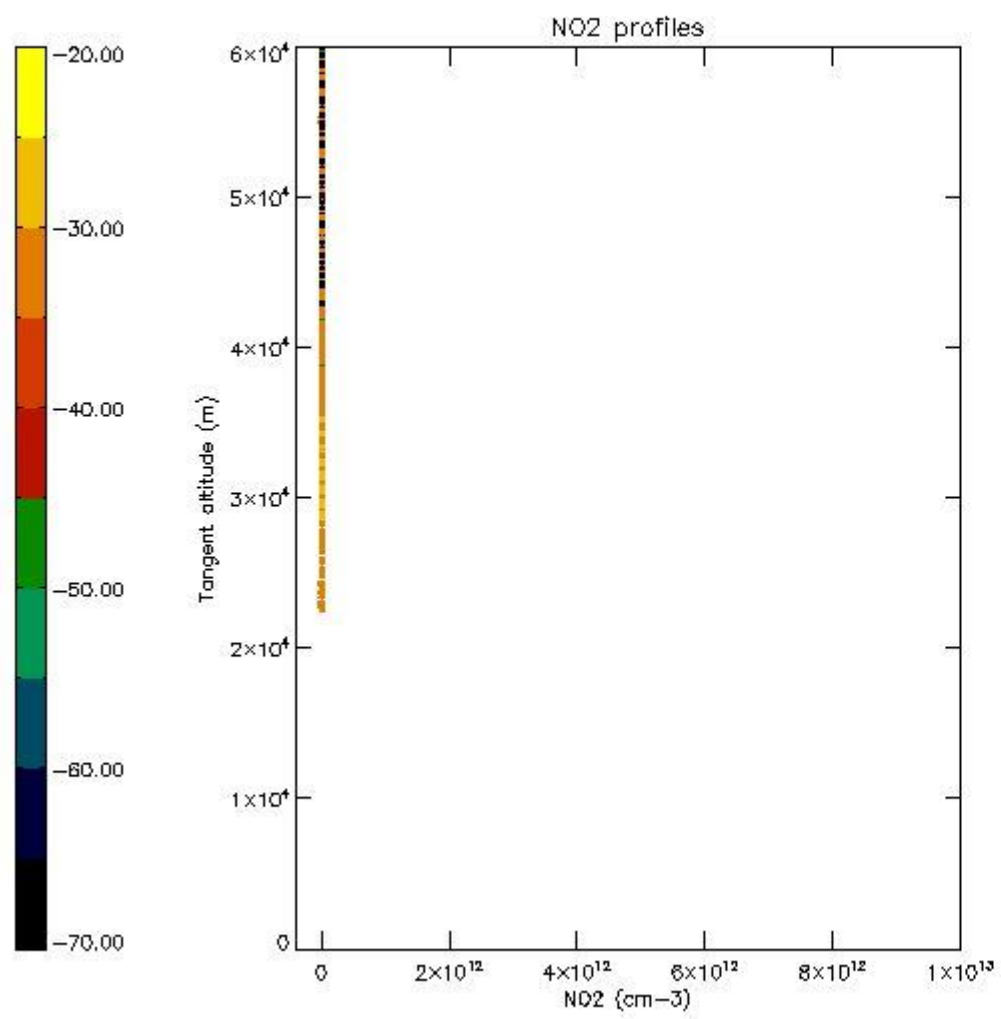
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



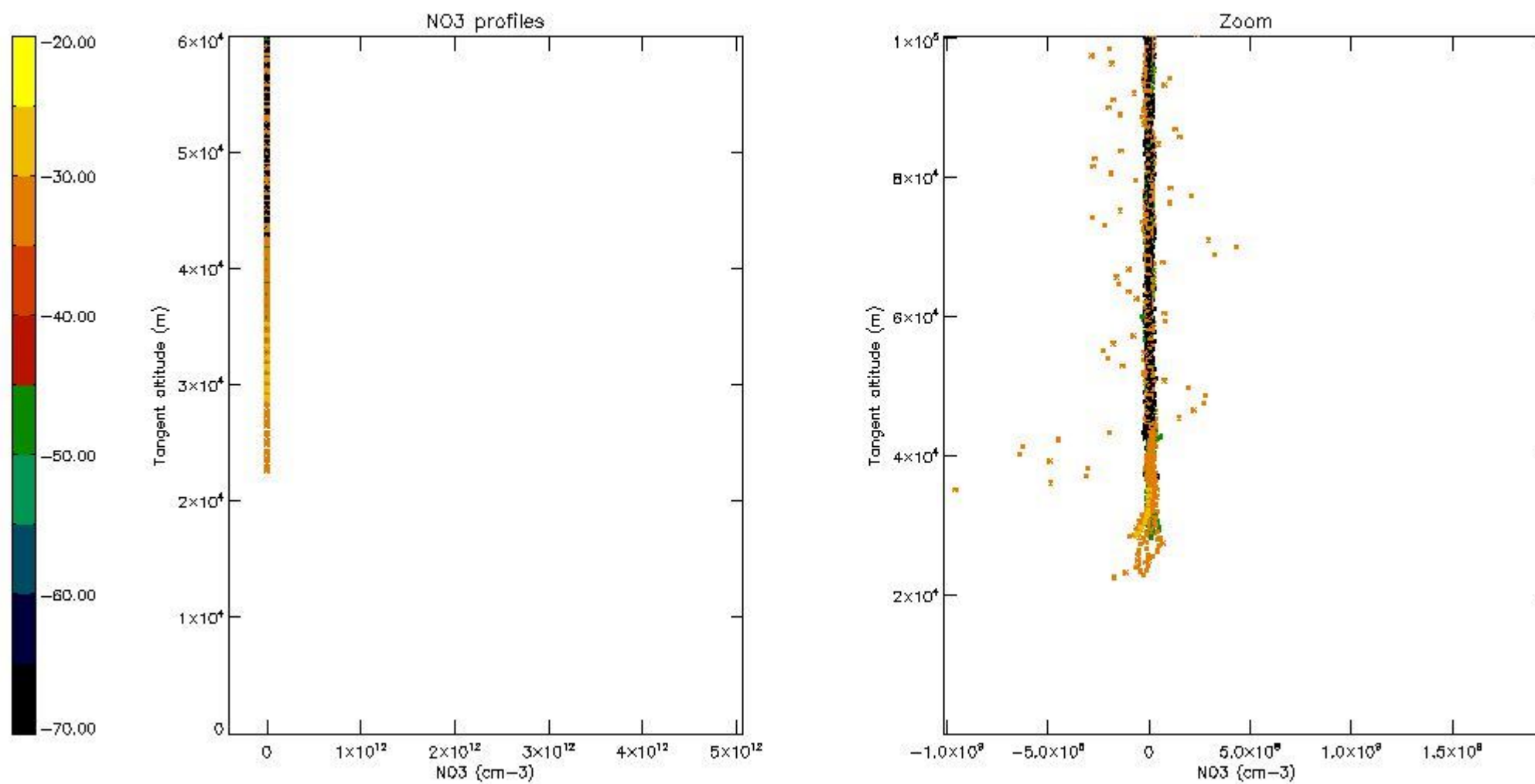
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	09-MAY-2009 00:03:04
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-MAY-2009 00:03:04
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-MAY-2009 00:03:04

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

[2. Summary of processed GOM_NL_2P products](#)

[3. Level 2 Quality information per product](#)

[3.1 Plot of level 2 quality information per product \(time dependant\)](#)

[3.2 Plot of level 2 quality information per product \(world map\)](#)

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

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

[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](#)

[5.1 Ozone statistics based on quality of products](#)

[5.2 Plot ozone profiles for all STD \(dark without errors\)](#)

[5.3 Plot ozone profiles where STD < 20% \(dark without errors\)](#)

[5.4. Plot ozone profiles where STD < 10% \(dark without errors\)](#)

[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

[5.6 Plot NO2 profiles for all STD \(dark without errors\)](#)

[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	26APR2013 09:23:00
Data source version	GOMOS/6.01
Start time of products	09-05-2009 (09MAY2009 00:00:00)
Stop time of products	10-05-2009 (10MAY2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	197
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

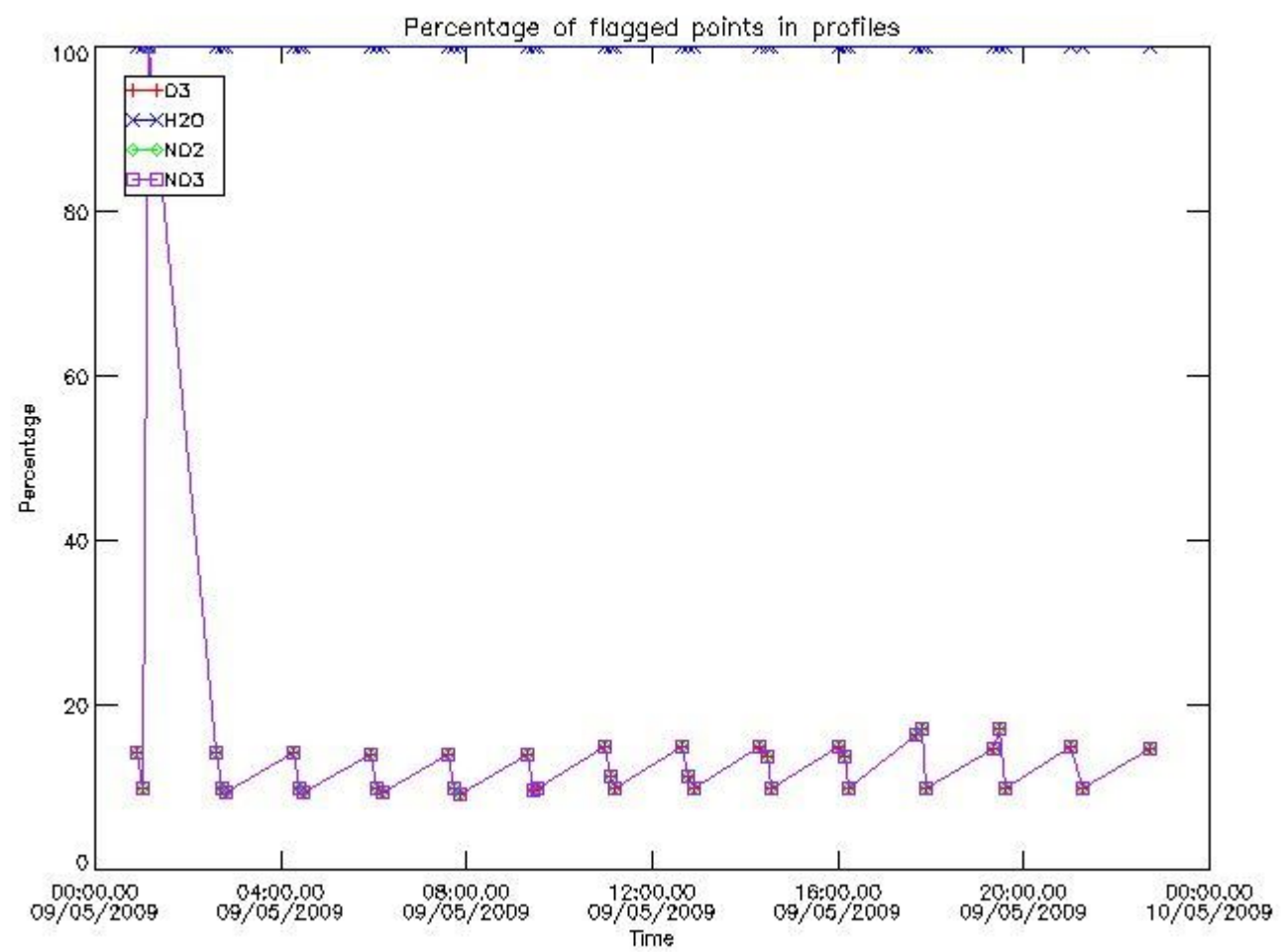
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090509_000304_000000412078_00460_37588_3530.N1	09-MAY-2009 00:03:04	Bright	41.000	104	27Bet Lib	2.6140	13100.	82	37588	No
2	GOM_NL__2PRFIN20090509_000902_000000512078_00460_37588_3531.N1	09-MAY-2009 00:09:02	Bright	51.000	102	24Alp Ser	2.6000	4250.0	102	37588	No
3	GOM_NL__2PRFIN20090509_001426_000000422078_00460_37588_3532.N1	09-MAY-2009 00:14:26	Bright	41.500	83		2.3780	11000.	83	37588	No
4	GOM_NL__2PRFIN20090509_002642_000000392078_00460_37588_3533.N1	09-MAY-2009 00:26:42	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	37588	No
5	GOM_NL__2PRFIN20090509_003728_000000372078_00460_37588_3534.N1	09-MAY-2009 00:37:28	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	37588	No
6	GOM_NL__2PRFIN20090509_005017_000000352078_00460_37588_3535.N1	09-MAY-2009 00:50:17	Twilight	35.000	93	53Bet Peg	2.5200	3100.0	70	37588	No
7	GOM_NL__2PRFIN20090509_005435_000000362078_00460_37588_3536.N1	09-MAY-2009 00:54:35	Dark	36.000	90	54Alp Peg	2.4870	11000.	72	37588	No
8	GOM_NL__2PRFIN20090509_010228_000000522078_00460_37588_3537.N1	09-MAY-2009 01:02:28	Dark	51.500	162	34Alp Aqr	2.9440	5350.0	103	37588	No
9	GOM_NL__2PRFIN20090509_010834_000000552078_00460_37588_3538.N1	09-MAY-2009 01:08:34	Dark	54.500	142	49Del Cap	2.8500	8900.0	109	37588	No
10	GOM_NL__2PRFIN20090509_012857_000000472078_00461_37589_3539.N1	09-MAY-2009 01:28:57	Straylight	46.500	40	The Sco	1.8590	7100.0	93	37589	No
11	GOM_NL__2PRFIN20090509_013049_000000502078_00461_37589_3540.N1	09-MAY-2009 01:30:49	Straylight	49.500	25	35Lam Sco	1.6200	28000.	99	37589	No
12	GOM_NL__2PRFIN20090509_013329_000000462078_00461_37589_3541.N1	09-MAY-2009 01:33:29	Straylight	46.000	75	26Eps Sco	2.2910	4250.0	92	37589	No
13	GOM_NL__2PRFIN20090509_013651_000000482078_00461_37589_3542.N1	09-MAY-2009 01:36:51	Twilight	47.500	16	21Alp Sco	1.0200	3000.0	95	37589	No
14	GOM_NL__2PRFIN20090509_013847_000000442078_00461_37589_3543.N1	09-MAY-2009 01:38:47	Bright	43.500	80	7Del Sco	2.3160	30000.	87	37589	No
15	GOM_NL__2PRFIN20090509_014340_000000432078_00461_37589_3544.N1	09-MAY-2009 01:43:40	Bright	42.500	104	27Bet Lib	2.6140	13100.	85	37589	No
16	GOM_NL__2PRFIN20090509_014938_000000502078_00461_37589_3545.N1	09-MAY-2009 01:49:38	Bright	49.500	102	24Alp Ser	2.6000	4250.0	99	37589	No
17	GOM_NL__2PRFIN20090509_015502_000000402078_00461_37589_3546.N1	09-MAY-2009 01:55:02	Bright	39.500	83		2.3780	11000.	79	37589	No
18	GOM_NL__2PRFIN20090509_020717_000000402078_00461_37589_3547.N1	09-MAY-2009 02:07:17	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	37589	No
19	GOM_NL__2PRFIN20090509_021804_000000372078_00461_37589_3548.N1	09-MAY-2009 02:18:04	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	37589	No
20	GOM_NL__2PRFIN20090509_023053_000000352078_00461_37589_3549.N1	09-MAY-2009 02:30:53	Twilight	35.000	93	53Bet Peg	2.5200	3100.0	70	37589	No
21	GOM_NL__2PRFIN20090509_023511_000000362078_00461_37589_3550.N1	09-MAY-2009 02:35:11	Dark	36.000	90	54Alp Peg	2.4870	11000.	72	37589	No
22	GOM_NL__2PRFIN20090509_024305_000000512078_00461_37589_3551.N1	09-MAY-2009 02:43:05	Dark	51.000	162	34Alp Aqr	2.9440	5350.0	102	37589	No
23	GOM_NL__2PRFIN20090509_024911_000000552078_00461_37589_3552.N1	09-MAY-2009 02:49:11	Dark	54.500	142	49Del Cap	2.8500	8900.0	109	37589	No
24	GOM_NL__2PRFIN20090509_030934_000000472078_00462_37590_3550.N1	09-MAY-2009 03:09:34	Straylight	46.500	40	The Sco	1.8590	7100.0	93	37590	No
25	GOM_NL__2PRFIN20090509_031125_000000502078_00462_37590_3551.N1	09-MAY-2009 03:11:25	Straylight	49.500	25	35Lam Sco	1.6200	28000.	99	37590	No
26	GOM_NL__2PRFIN20090509_031405_000000462078_00462_37590_3552.N1	09-MAY-2009 03:14:05	Straylight	46.000	75	26Eps Sco	2.2910	4250.0	92	37590	No
27	GOM_NL__2PRFIN20090509_031727_000000482078_00462_37590_3553.N1	09-MAY-2009 03:17:27	Twilight	47.500	16	21Alp Sco	1.0200	3000.0	95	37590	No
28	GOM_NL__2PRFIN20090509_031923_000000442078_00462_37590_3554.N1	09-MAY-2009 03:19:23	Bright	44.000	80	7Del Sco	2.3160	30000.	88	37590	No
29	GOM_NL__2PRFIN20090509_032416_000000442078_00462_37590_3555.N1	09-MAY-2009 03:24:16	Bright	44.000	104	27Bet Lib	2.6140	13100.	88	37590	No
30	GOM_NL__2PRFIN20090509_033013_000000492078_00462_37590_3556.N1	09-MAY-2009 03:30:13	Bright	49.000	102	24Alp Ser	2.6000	4250.0	98	37590	No
31	GOM_NL__2PRFIN20090509_033537_000000412078_00462_37590_3557.N1	09-MAY-2009 03:35:37	Bright	40.500	83		2.3780	11000.	81	37590	No
32	GOM_NL__2PRFIN20090509_034752_000000412078_00462_37590_3558.N1	09-MAY-2009 03:47:52	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	37590	No
33	GOM_NL__2PRFIN20090509_035840_000000372078_00462_37590_3559.N1	09-MAY-2009 03:58:40	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	37590	No
34	GOM_NL__2PRFIN20090509_041129_000000352078_00462_37590_3560.N1	09-MAY-2009 04:11:29	Twilight	35.000	93	53Bet Peg	2.5200	3100.0	70	37590	No
35	GOM_NL__2PRFIN20090509_041547_000000362078_00462_37590_3561.N1	09-MAY-2009 04:15:47	Dark	36.000	90	54Alp Peg	2.4870	11000.	72	37590	No
36	GOM_NL__2PRFIN20090509_042343_000000512078_00462_37590_3562.N1	09-MAY-2009 04:23:43	Dark	51.000	162	34Alp Aqr	2.9440	5350.0	102	37590	No
37	GOM_NL__2PRFIN20090509_042949_000000542078_00462_37590_3563.N1	09-MAY-2009 04:29:49	Dark	54.000	142	49Del Cap	2.8500	8900.0	108	37590	No
38	GOM_NL__2PRFIN20090509_045011_000000472078_00463_37591_3569.N1	09-MAY-2009 04:50:11	Straylight	46.500	40	The Sco	1.8590	7100.0	93	37591	No
39	GOM_NL__2PRFIN20090509_045202_000000502078_00463_37591_3570.N1	09-MAY-2009 04:52:02	Straylight	49.500	25	35Lam Sco	1.6200	28000.	99	37591	No
40	GOM_NL__2PRFIN20090509_045442_000000462078_00463_37591_3571.N1	09-MAY-2009 04:54:42	Straylight	46.000	75	26Eps Sco	2.2910	4250.0	92	37591	No
41	GOM_NL__2PRFIN20090509_045804_000000472078_00463_37591_3572.N1	09-MAY-2009 04:58:04	Twilight	47.000	16	21Alp Sco	1.0200	3000.0	94	37591	No
42	GOM_NL__2PRFIN20090509_045959_000000442078_00463_37591_3573.N1	09-MAY-2009 04:59:59	Bright	44.000	80	7Del Sco	2.3160	30000.	88	37591	No

161	GOM_NL__2PRFIN20090509_192114_000000352078_00471_37599_3713.N1	09-MAY-2009 19:21:14	Dark	34.500	90	54Alp Peg	2.4870	11000.	69	37599	No
162	GOM_NL__2PRFIN20090509_192916_000000302078_00471_37599_3714.N1	09-MAY-2009 19:29:16	Dark	30.000	162	34Alp Aqr	2.9440	5350.0	60	37599	No
163	GOM_NL__2PRFIN20090509_193525_000000522078_00471_37599_3715.N1	09-MAY-2009 19:35:25	Dark	51.500	142	49Del Cap	2.8500	8900.0	103	37599	No
164	GOM_NL__2PRFIN20090509_195541_000000432078_00472_37600_3713.N1	09-MAY-2009 19:55:41	Straylight	43.000	40	The Sco	1.8590	7100.0	86	37600	No
165	GOM_NL__2PRFIN20090509_195732_000000462078_00472_37600_3714.N1	09-MAY-2009 19:57:32	Straylight	46.000	25	35Lam Sco	1.6200	28000.	92	37600	No
166	GOM_NL__2PRFIN20090509_200010_000000432078_00472_37600_3715.N1	09-MAY-2009 20:00:10	Straylight	43.000	75	26Eps Sco	2.2910	4250.0	86	37600	No
167	GOM_NL__2PRFIN20090509_200331_000000442078_00472_37600_3716.N1	09-MAY-2009 20:03:31	Twilight_stray	44.000	16	21Alp Sco	1.0200	3000.0	88	37600	No
168	GOM_NL__2PRFIN20090509_200525_000000412078_00472_37600_3717.N1	09-MAY-2009 20:05:25	Bright	40.500	80	7Del Sco	2.3160	30000.	81	37600	No
169	GOM_NL__2PRFIN20090509_201015_000000382078_00472_37600_3718.N1	09-MAY-2009 20:10:15	Bright	37.500	104	27Bet Lib	2.6140	13100.	75	37600	No
170	GOM_NL__2PRFIN20090509_201608_000000462078_00472_37600_3719.N1	09-MAY-2009 20:16:08	Bright	45.500	102	24Alp Ser	2.6000	4250.0	91	37600	No
171	GOM_NL__2PRFIN20090509_202134_000000382078_00472_37600_3720.N1	09-MAY-2009 20:21:34	Bright	38.000	83		2.3780	11000.	76	37600	No
172	GOM_NL__2PRFIN20090509_203346_000000392078_00472_37600_3721.N1	09-MAY-2009 20:33:46	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	37600	No
173	GOM_NL__2PRFIN20090509_204435_000000352078_00472_37600_3722.N1	09-MAY-2009 20:44:35	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	37600	No
174	GOM_NL__2PRFIN20090509_205731_000000332078_00472_37600_3723.N1	09-MAY-2009 20:57:31	Twilight_stray	33.000	93	53Bet Peg	2.5200	3100.0	66	37600	No
175	GOM_NL__2PRFIN20090509_210151_000000342078_00472_37600_3724.N1	09-MAY-2009 21:01:51	Dark	33.500	90	54Alp Peg	2.4870	11000.	67	37600	No
176	GOM_NL__2PRFIN20090509_211602_000000522078_00472_37600_3725.N1	09-MAY-2009 21:16:02	Dark	52.000	142	49Del Cap	2.8500	8900.0	104	37600	No
177	GOM_NL__2PRFIN20090509_213618_000000432078_00473_37601_3737.N1	09-MAY-2009 21:36:18	Straylight	42.500	40	The Sco	1.8590	7100.0	85	37601	No
178	GOM_NL__2PRFIN20090509_213809_000000462078_00473_37601_3738.N1	09-MAY-2009 21:38:09	Straylight	46.000	25	35Lam Sco	1.6200	28000.	92	37601	No
179	GOM_NL__2PRFIN20090509_214047_000000432078_00473_37601_3739.N1	09-MAY-2009 21:40:47	Straylight	43.000	75	26Eps Sco	2.2910	4250.0	86	37601	No
180	GOM_NL__2PRFIN20090509_214407_000000442078_00473_37601_3740.N1	09-MAY-2009 21:44:07	Twilight_stray	44.000	16	21Alp Sco	1.0200	3000.0	88	37601	No
181	GOM_NL__2PRFIN20090509_214601_000000412078_00473_37601_3741.N1	09-MAY-2009 21:46:01	Bright	40.500	80	7Del Sco	2.3160	30000.	81	37601	No
182	GOM_NL__2PRFIN20090509_215051_000000382078_00473_37601_3742.N1	09-MAY-2009 21:50:51	Bright	38.000	104	27Bet Lib	2.6140	13100.	76	37601	No
183	GOM_NL__2PRFIN20090509_215643_000000462078_00473_37601_3743.N1	09-MAY-2009 21:56:43	Bright	45.500	102	24Alp Ser	2.6000	4250.0	91	37601	No
184	GOM_NL__2PRFIN20090509_220209_000000392078_00473_37601_3744.N1	09-MAY-2009 22:02:09	Bright	39.000	83		2.3780	11000.	78	37601	No
185	GOM_NL__2PRFIN20090509_221421_000000392078_00473_37601_3745.N1	09-MAY-2009 22:14:21	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	37601	No
186	GOM_NL__2PRFIN20090509_222510_000000362078_00473_37601_3746.N1	09-MAY-2009 22:25:10	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	37601	No
187	GOM_NL__2PRFIN20090509_223807_000000342078_00473_37601_3747.N1	09-MAY-2009 22:38:07	Twilight_stray	33.500	93	53Bet Peg	2.5200	3100.0	67	37601	No
188	GOM_NL__2PRFIN20090509_224227_000000352078_00473_37601_3748.N1	09-MAY-2009 22:42:27	Dark	34.500	90	54Alp Peg	2.4870	11000.	69	37601	No
189	GOM_NL__2PRFIN20090509_231654_000000432078_00474_37602_3753.N1	09-MAY-2009 23:16:54	Straylight	42.500	40	The Sco	1.8590	7100.0	85	37602	No
190	GOM_NL__2PRFIN20090509_231846_000000462078_00474_37602_3754.N1	09-MAY-2009 23:18:46	Straylight	46.000	25	35Lam Sco	1.6200	28000.	92	37602	No
191	GOM_NL__2PRFIN20090509_232123_000000432078_00474_37602_3755.N1	09-MAY-2009 23:21:23	Straylight	42.500	75	26Eps Sco	2.2910	4250.0	85	37602	No
192	GOM_NL__2PRFIN20090509_232443_000000442078_00474_37602_3756.N1	09-MAY-2009 23:24:43	Twilight_stray	43.500	16	21Alp Sco	1.0200	3000.0	87	37602	No
193	GOM_NL__2PRFIN20090509_232637_000000412078_00474_37602_3757.N1	09-MAY-2009 23:26:37	Bright	40.500	80	7Del Sco	2.3160	30000.	81	37602	No
194	GOM_NL__2PRFIN20090509_233127_000000382078_00474_37602_3758.N1	09-MAY-2009 23:31:27	Bright	37.500	104	27Bet Lib	2.6140	13100.	75	37602	No
195	GOM_NL__2PRFIN20090509_233719_000000472078_00474_37602_3759.N1	09-MAY-2009 23:37:19	Bright	47.000	102	24Alp Ser	2.6000	4250.0	94	37602	No
196	GOM_NL__2PRFIN20090509_234245_000000382078_00474_37602_3760.N1	09-MAY-2009 23:42:45	Bright	37.500	83		2.3780	11000.	75	37602	No
197	GOM_NL__2PRFIN20090509_235457_000000392078_00474_37602_3761.N1	09-MAY-2009 23:54:57	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	37602	No

3. Quality information per product

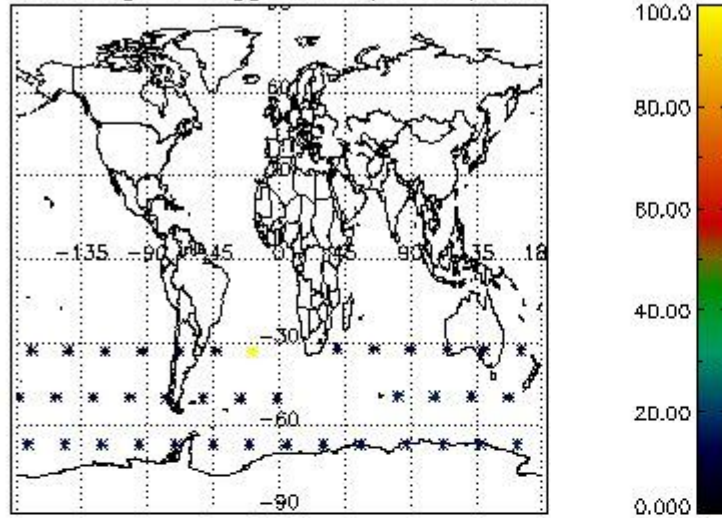
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

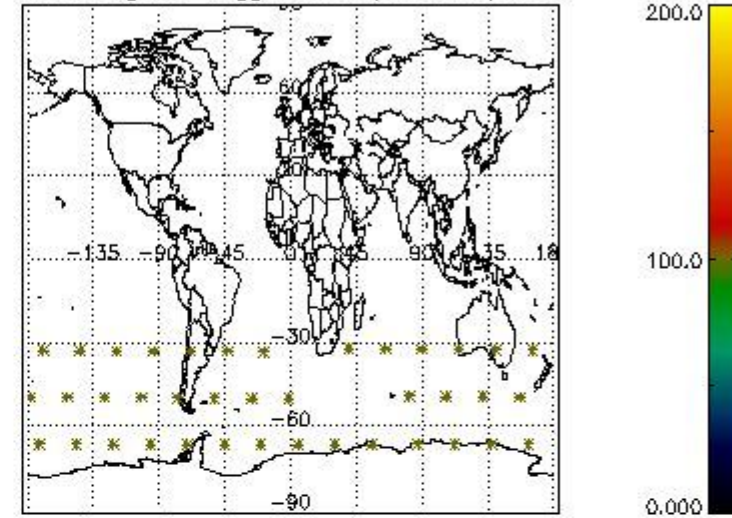


3.2 Plot quality information per product (world map)

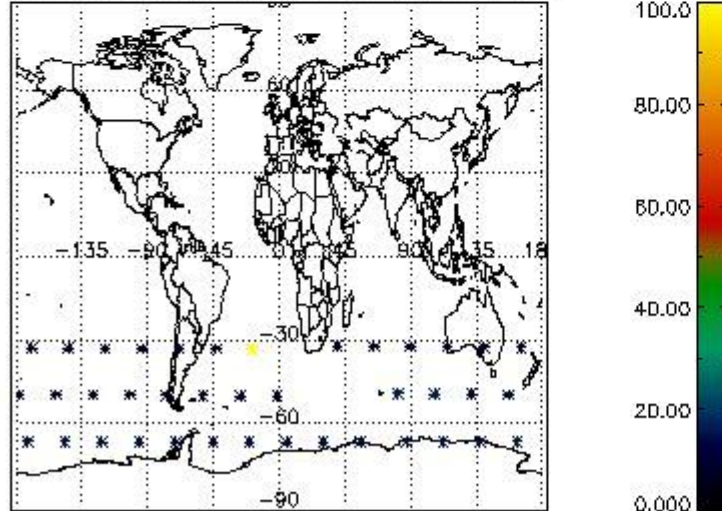
Percentage of flagged data per O3 profile



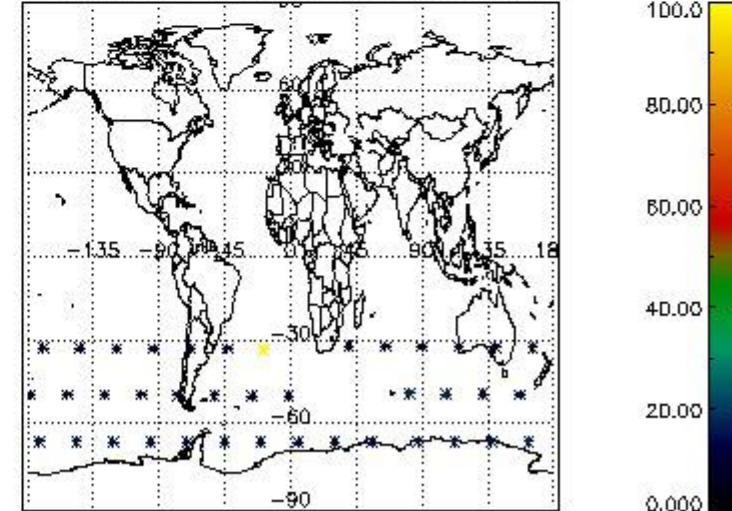
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

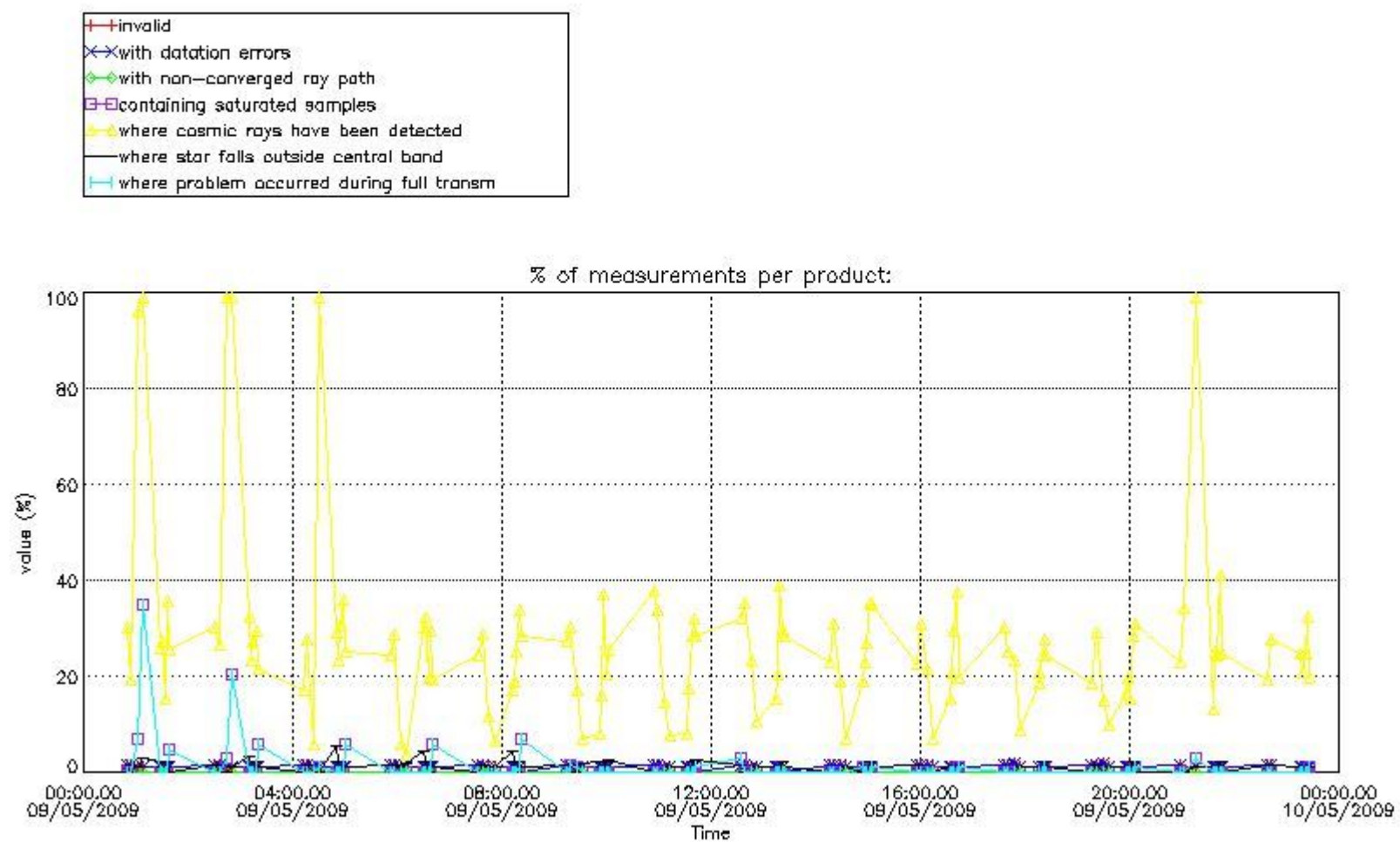


4. Level 1 quality information per product

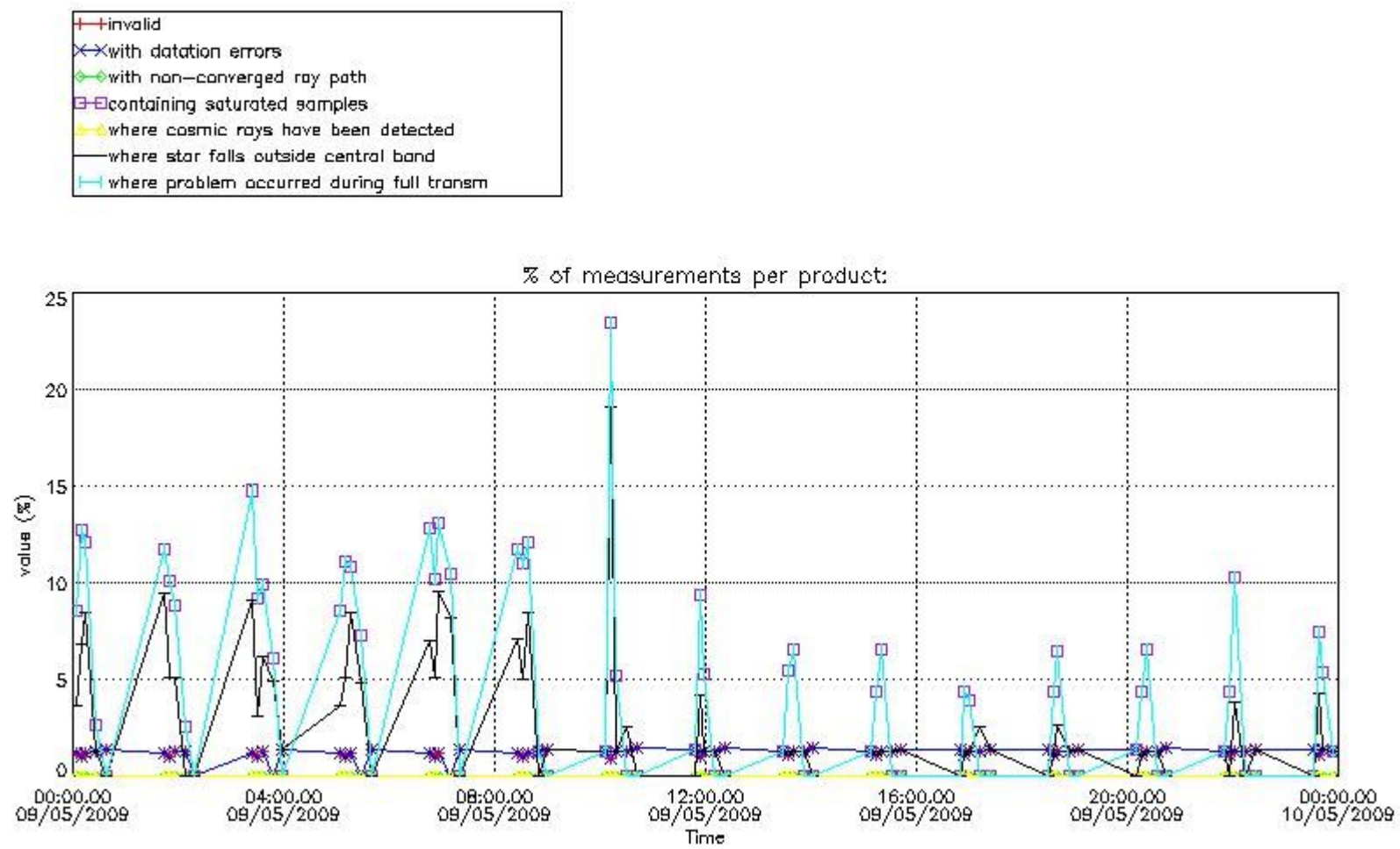
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

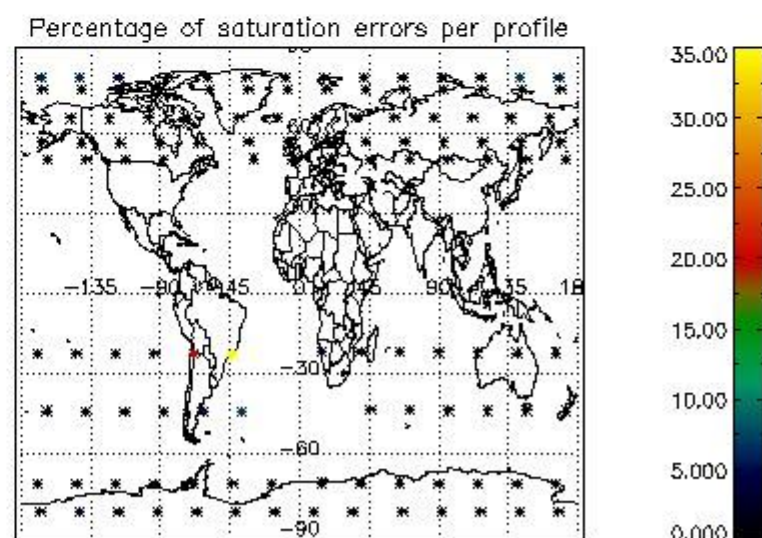
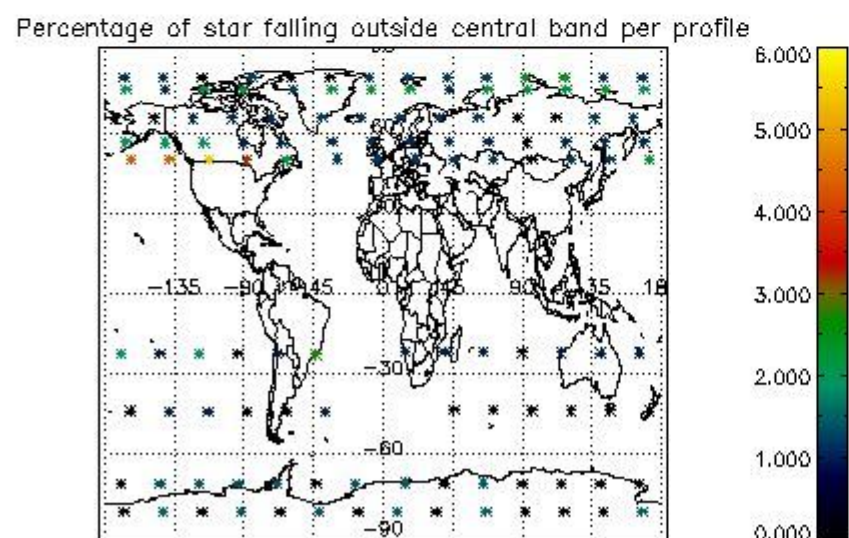
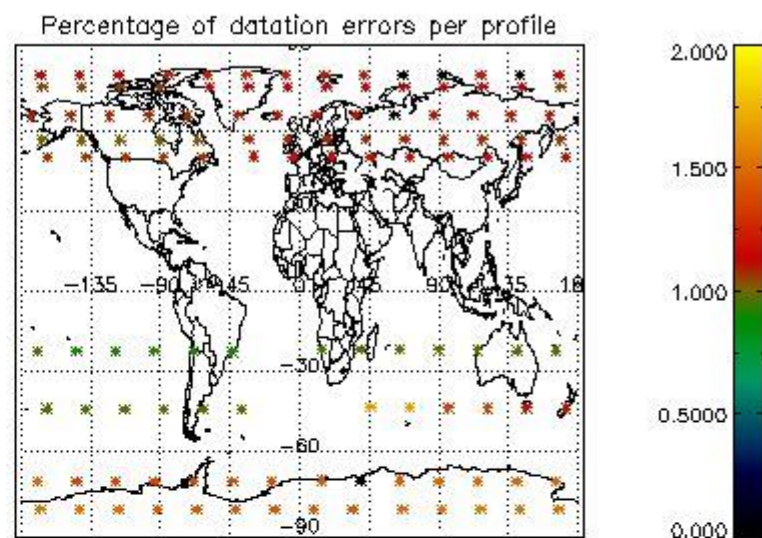
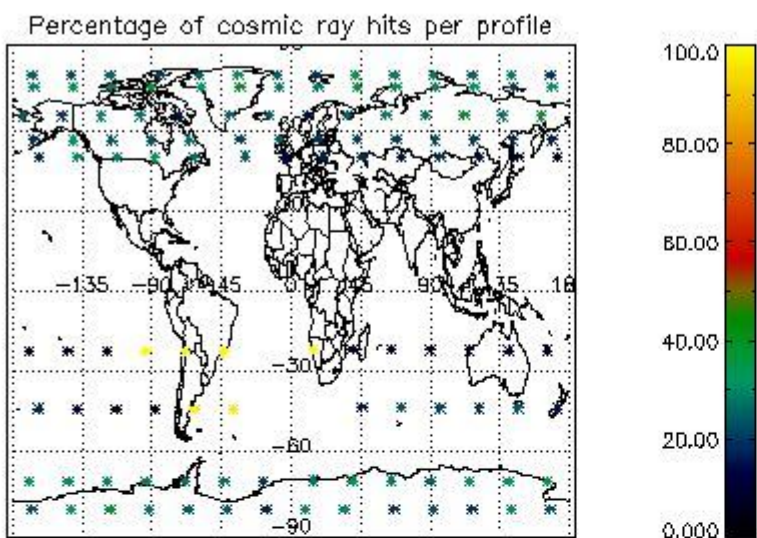


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

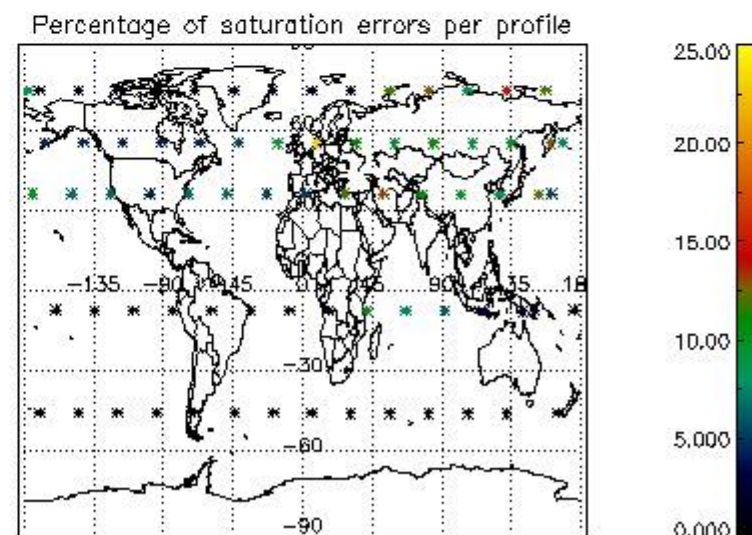
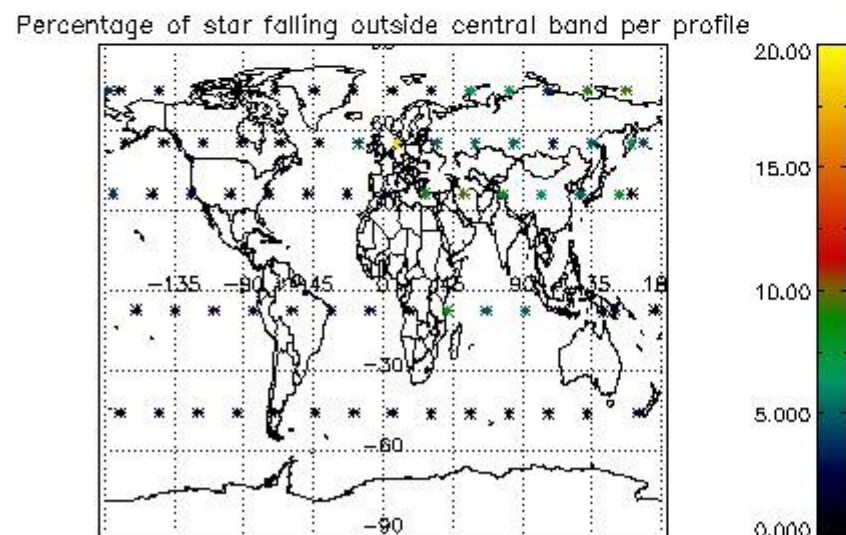
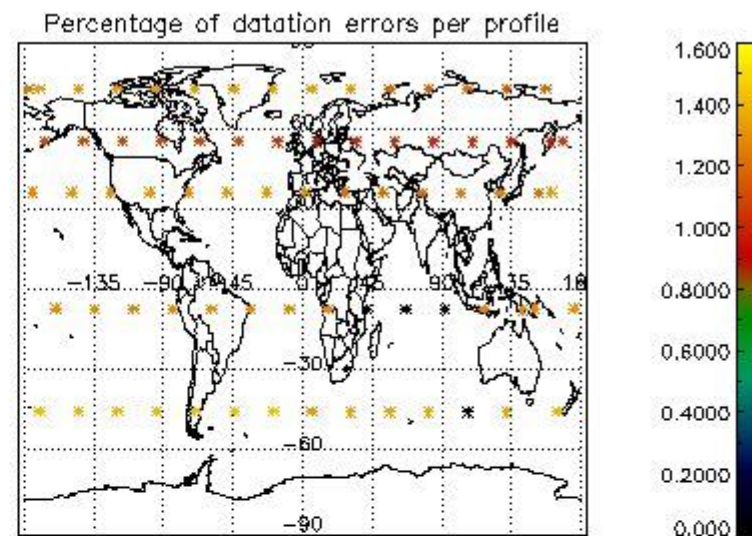
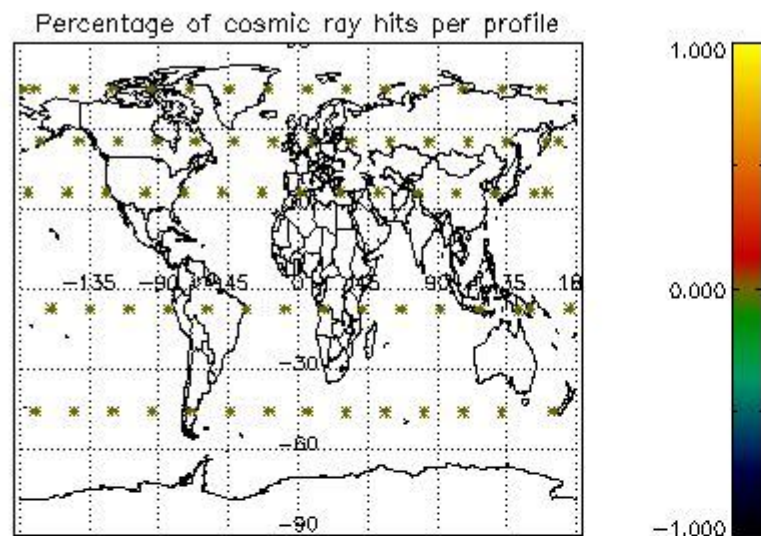


4.2 Plot quality information per product coming from level 1b processing (world map)

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

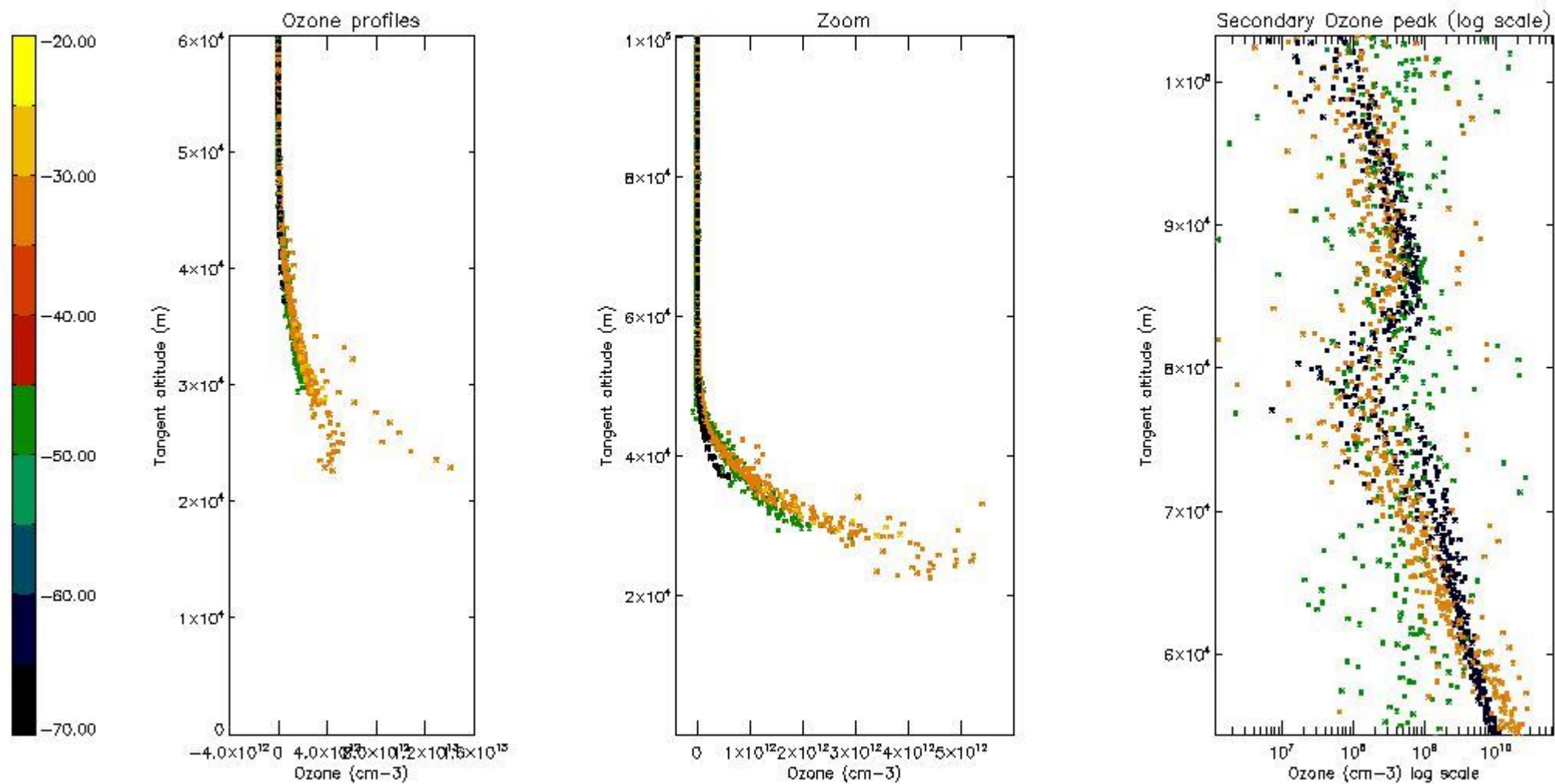
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	20
STD < 20	6

STD < 10	4
STD < 5	1

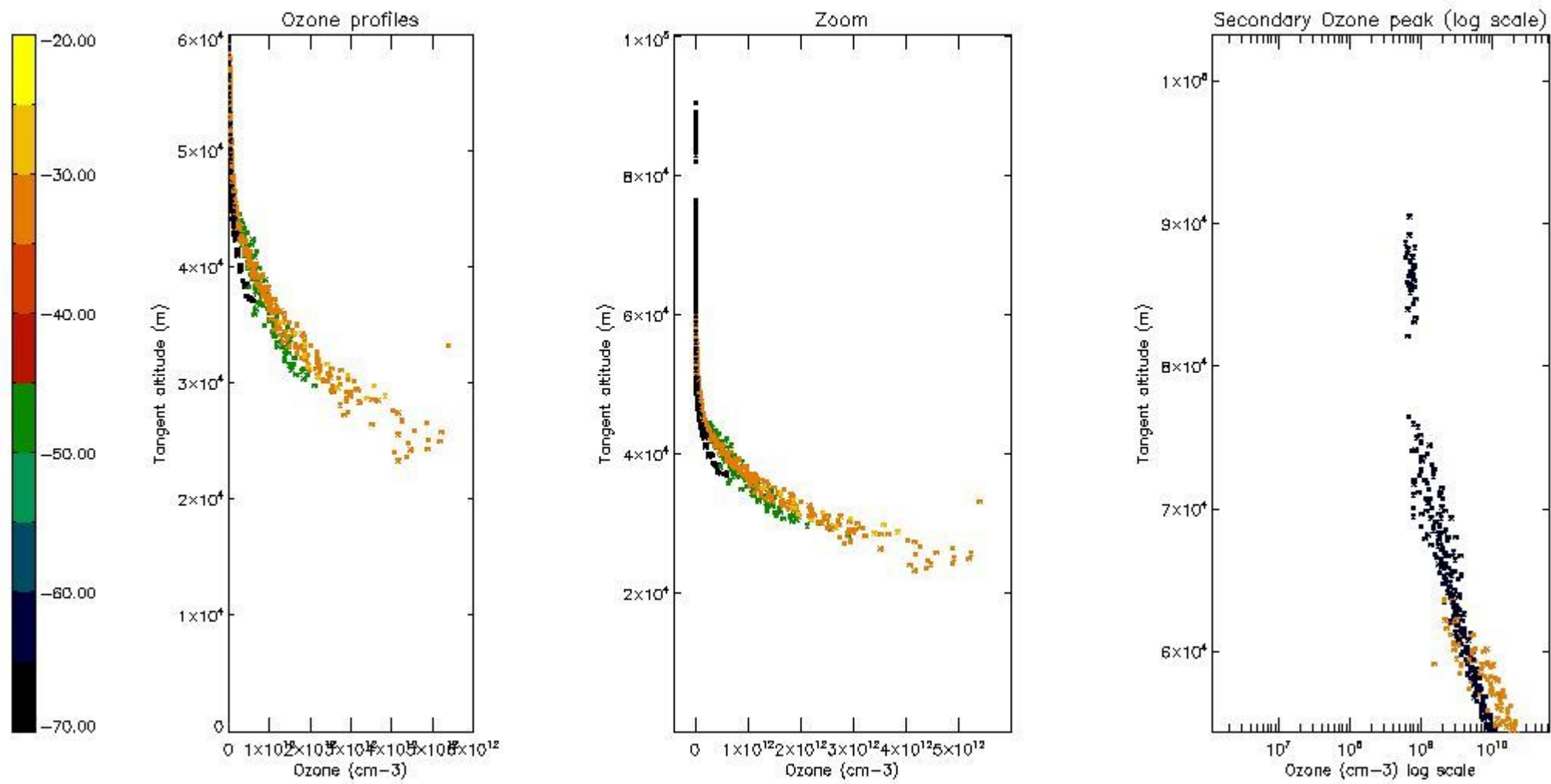
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



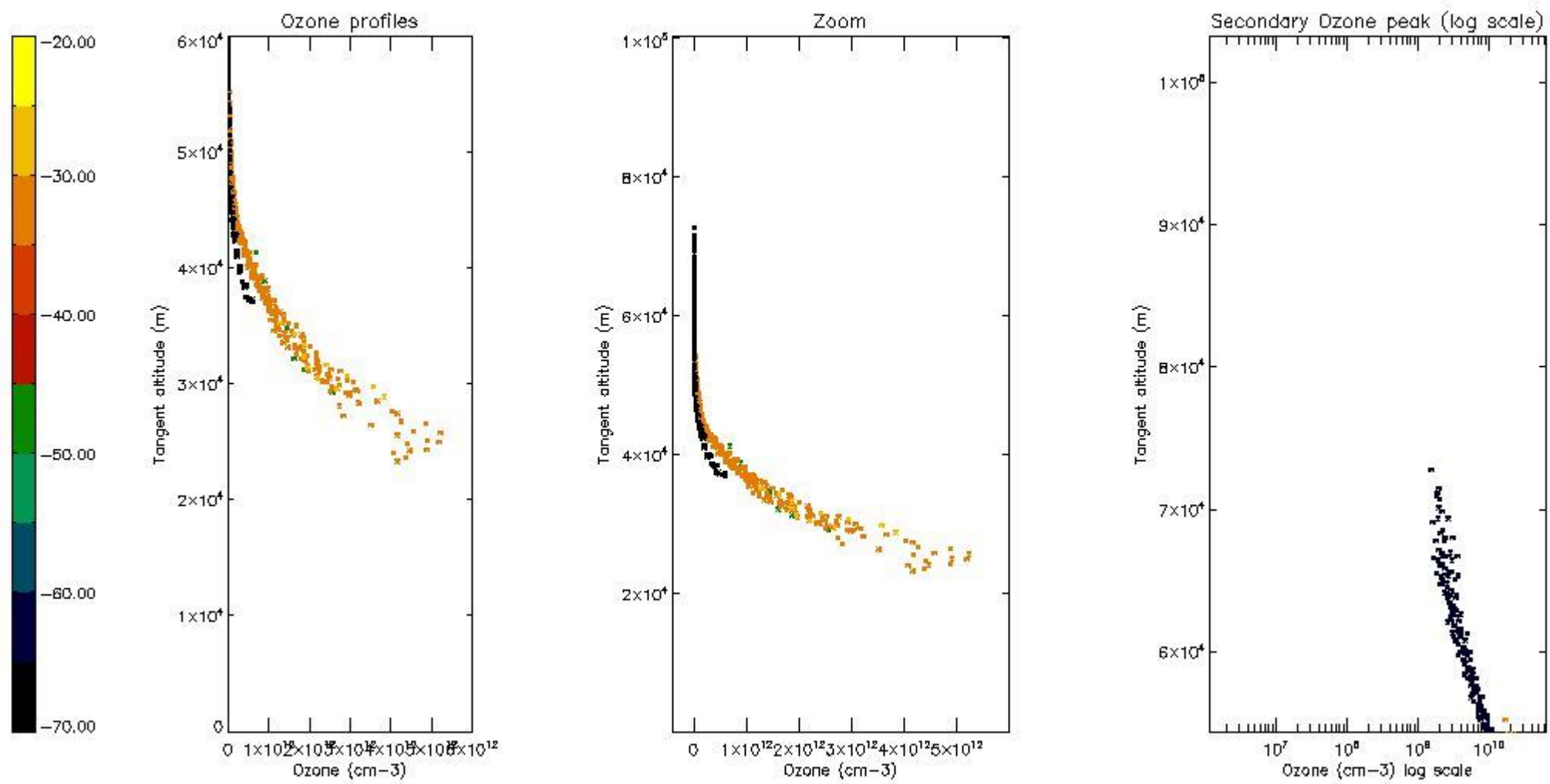
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



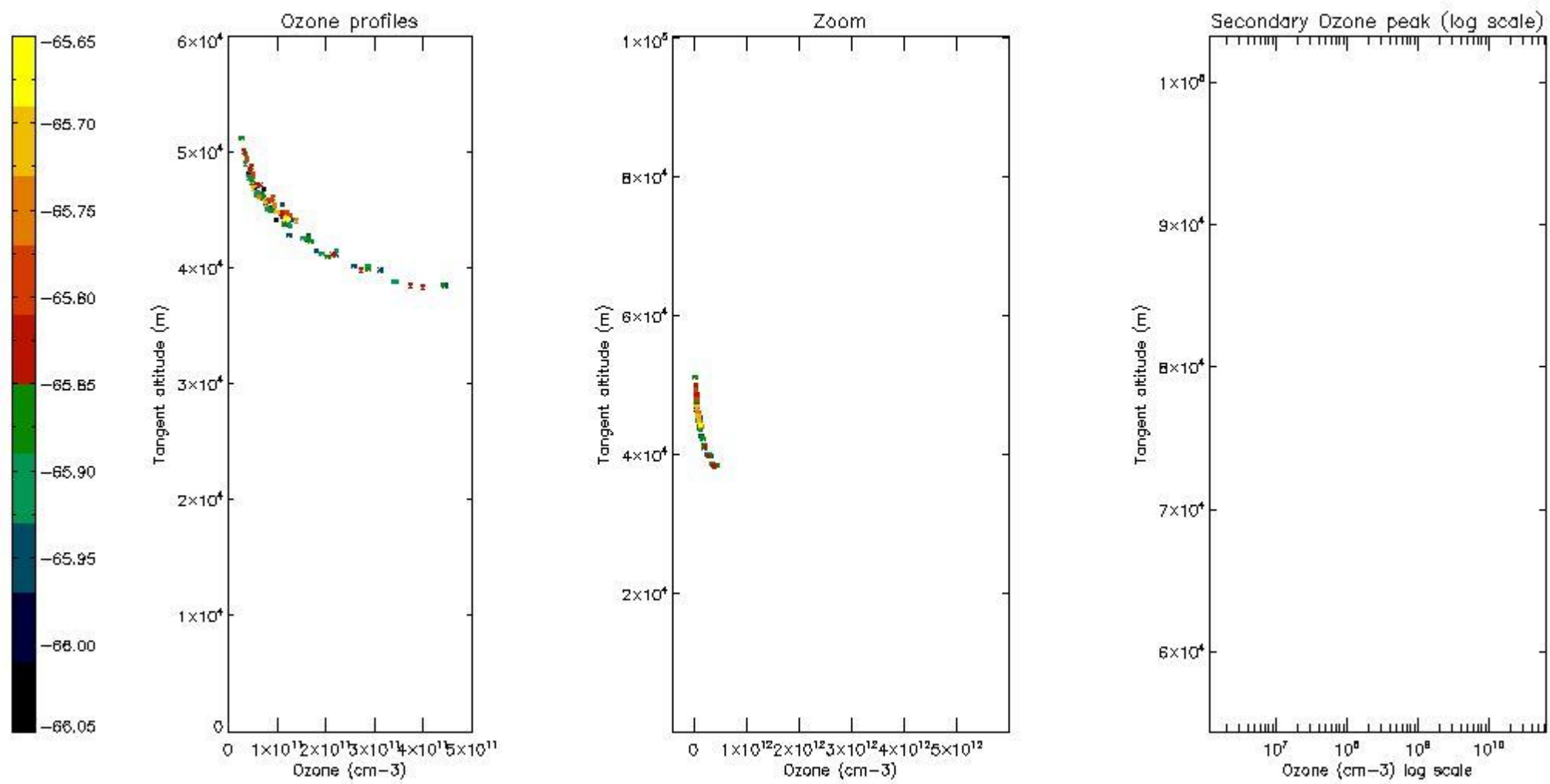
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



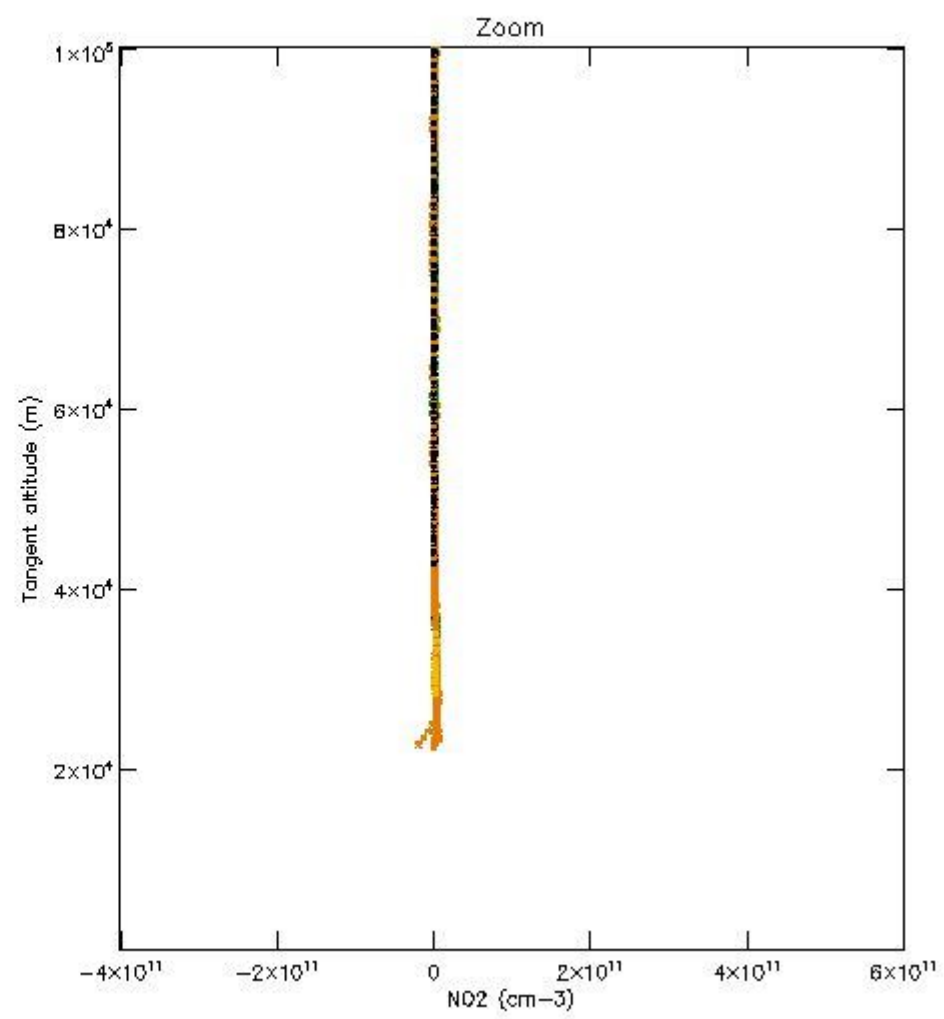
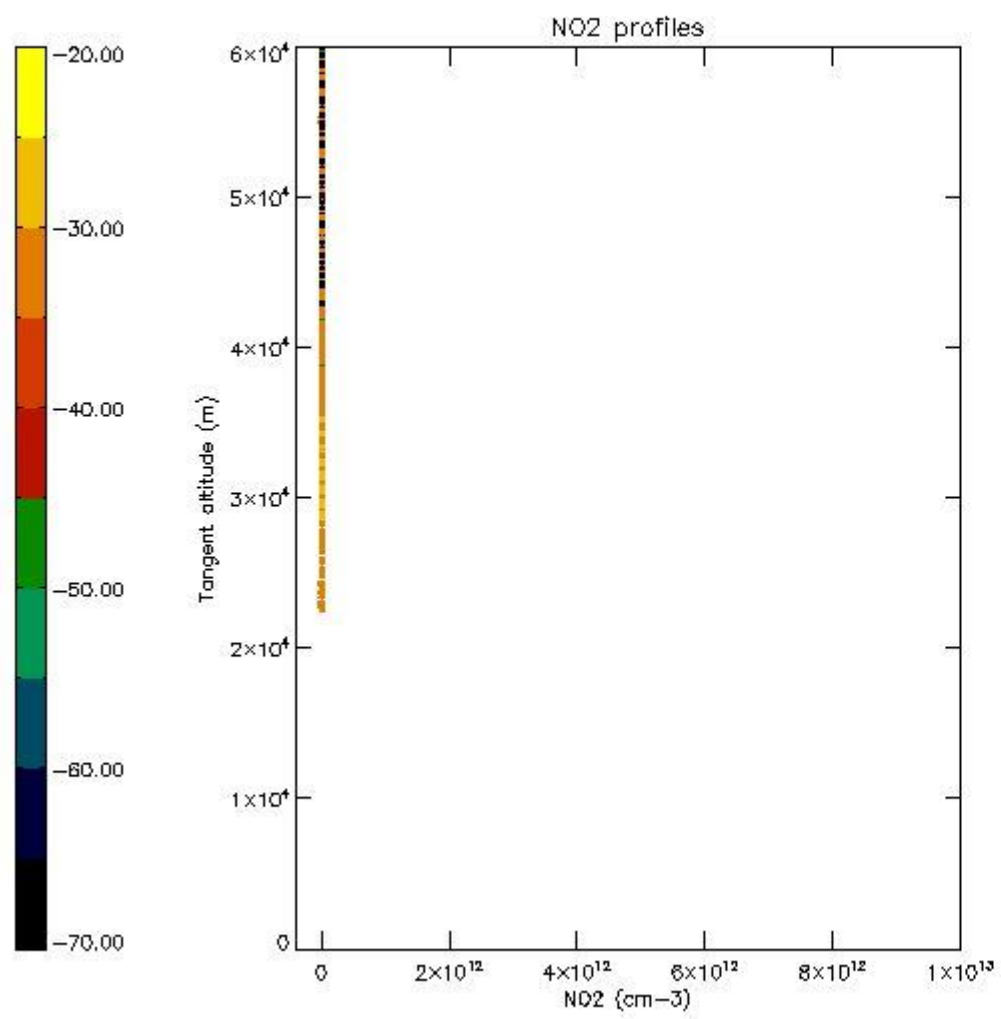
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



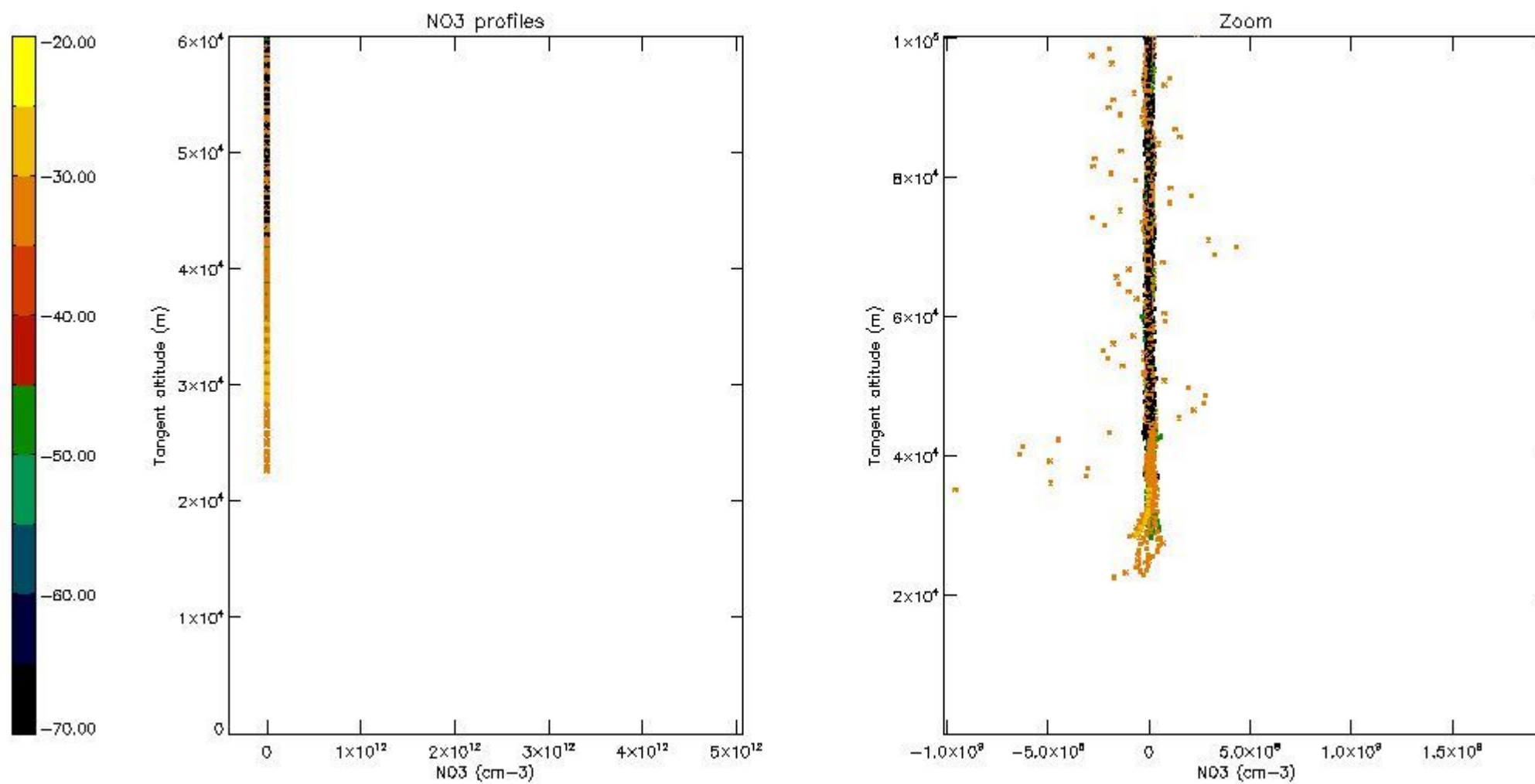
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

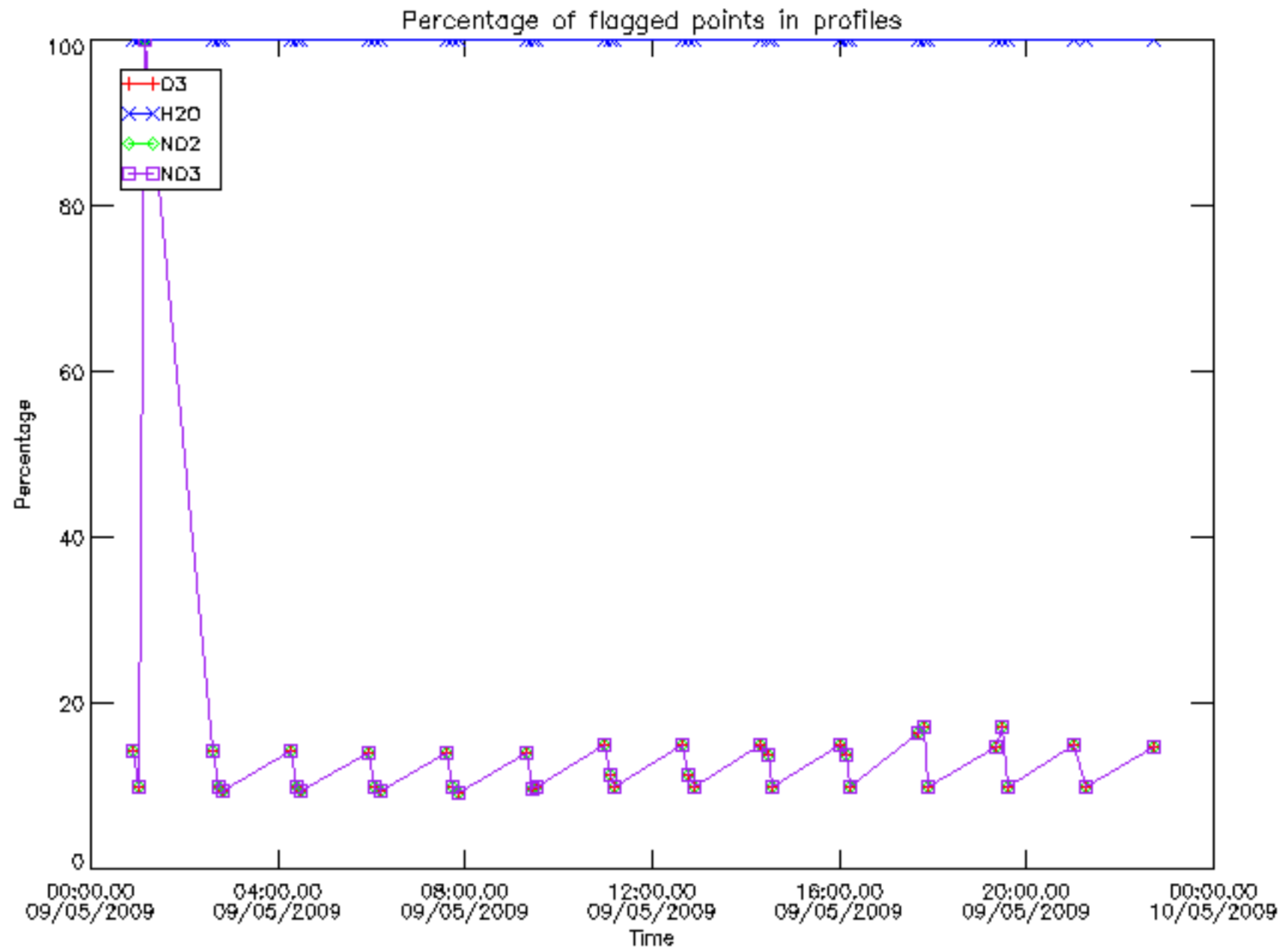
The colorbar represents the latitude.



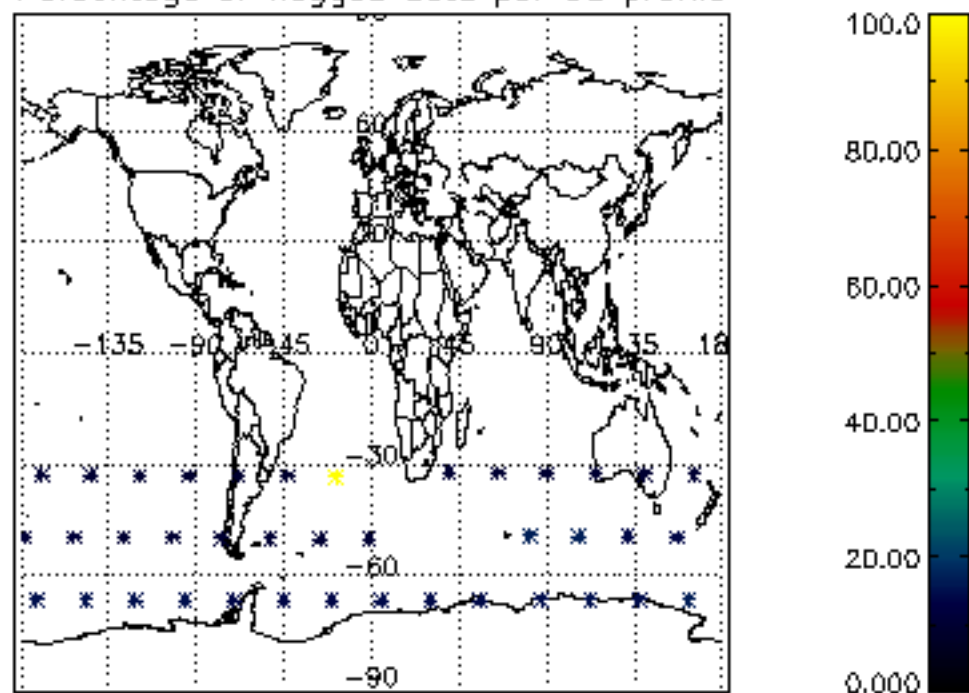
6. Auxiliary Data Files used for the production reported in section 2

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.

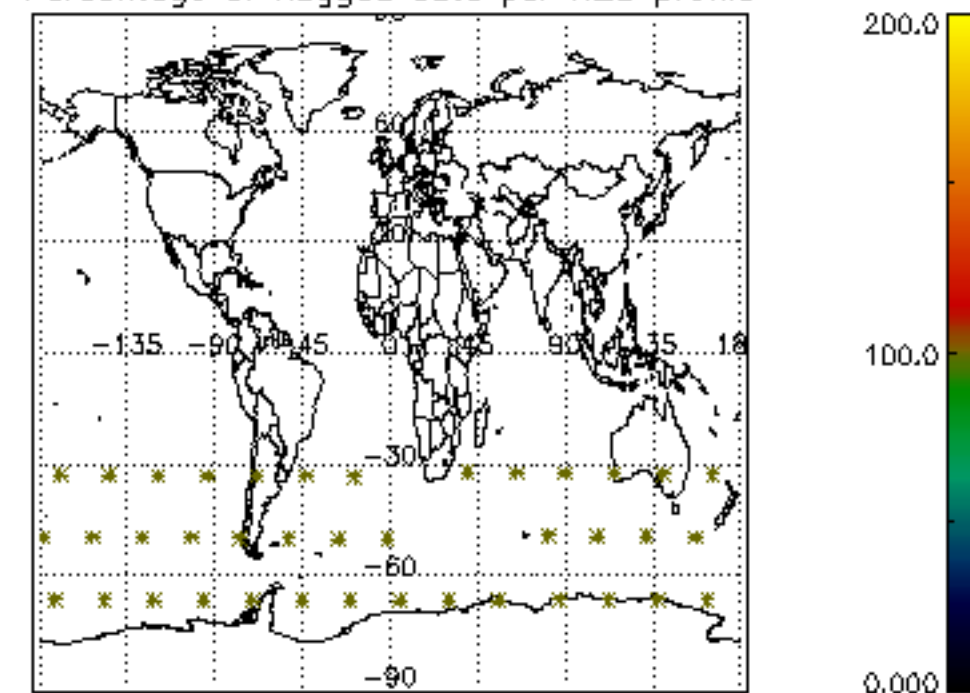
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	09-MAY-2009 00:03:04
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-MAY-2009 00:03:04
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-MAY-2009 00:03:04



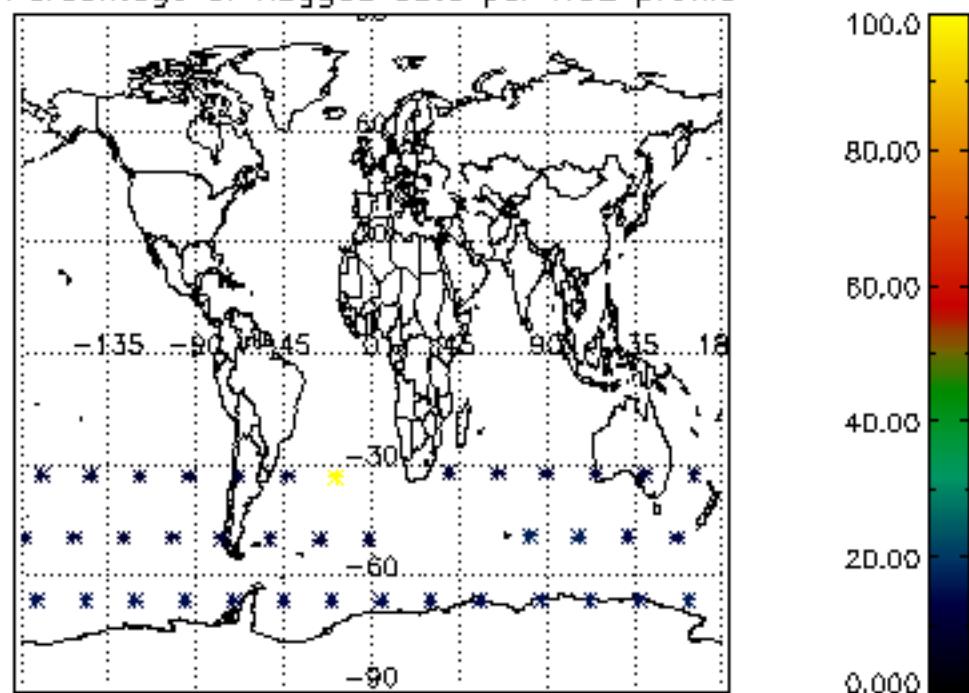
Percentage of flagged data per D3 profile



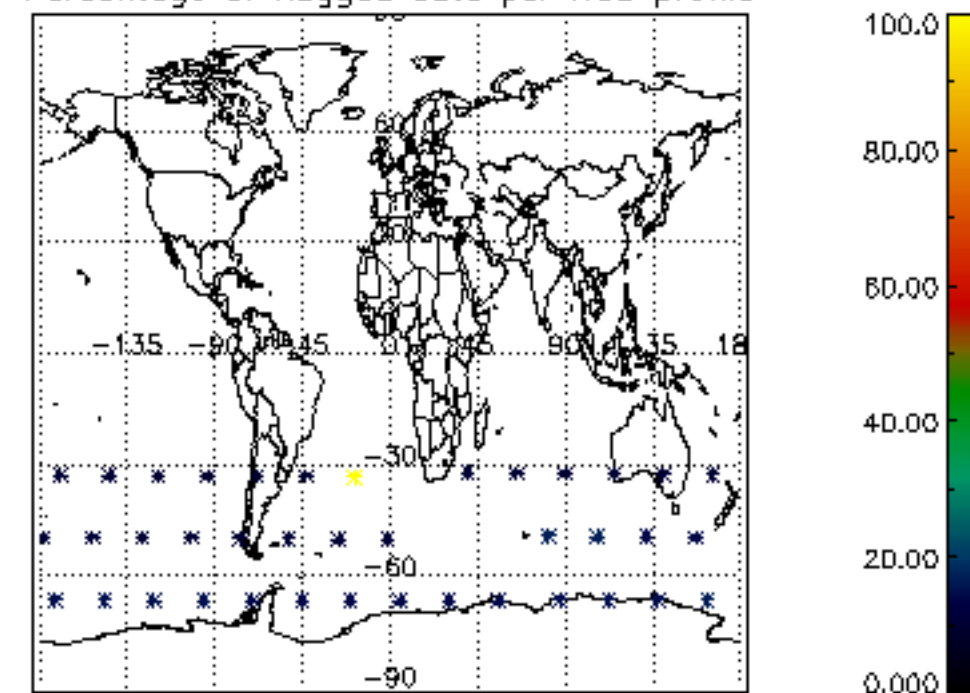
Percentage of flagged data per H2O profile

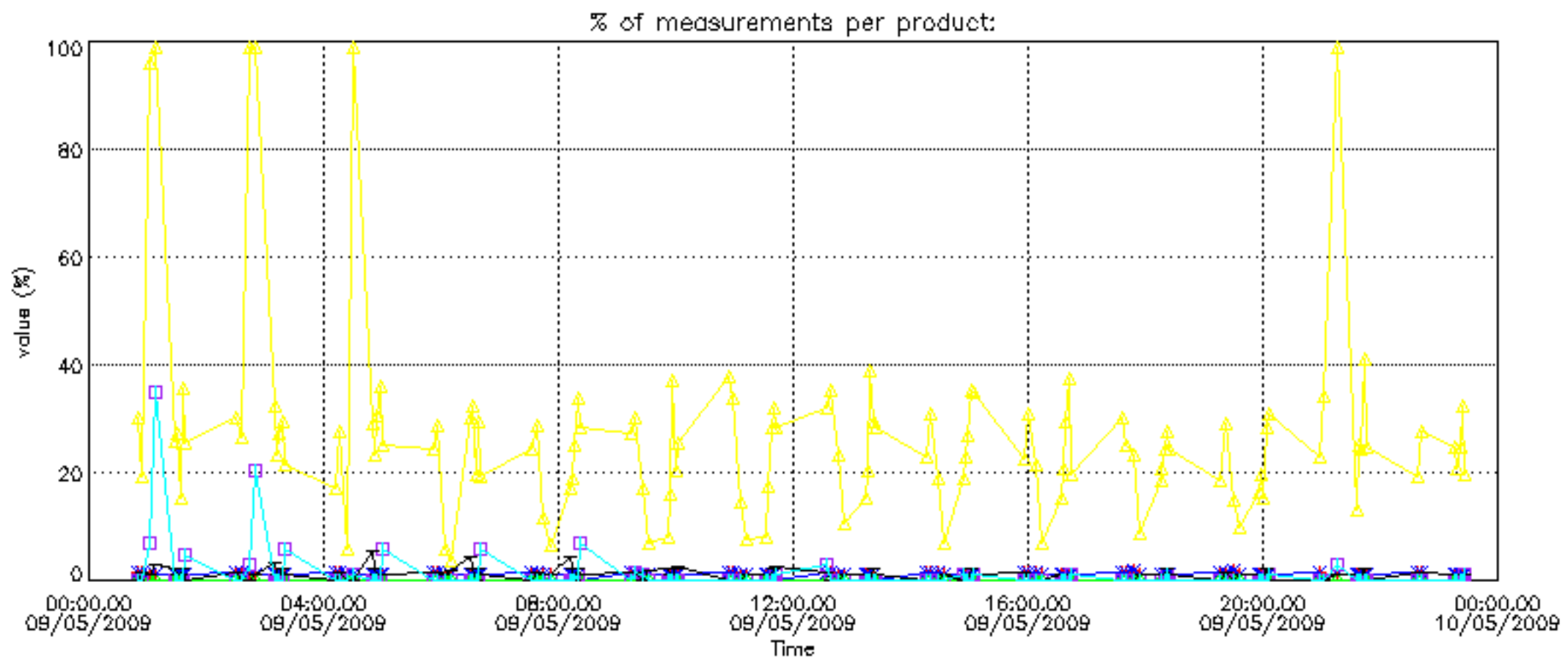


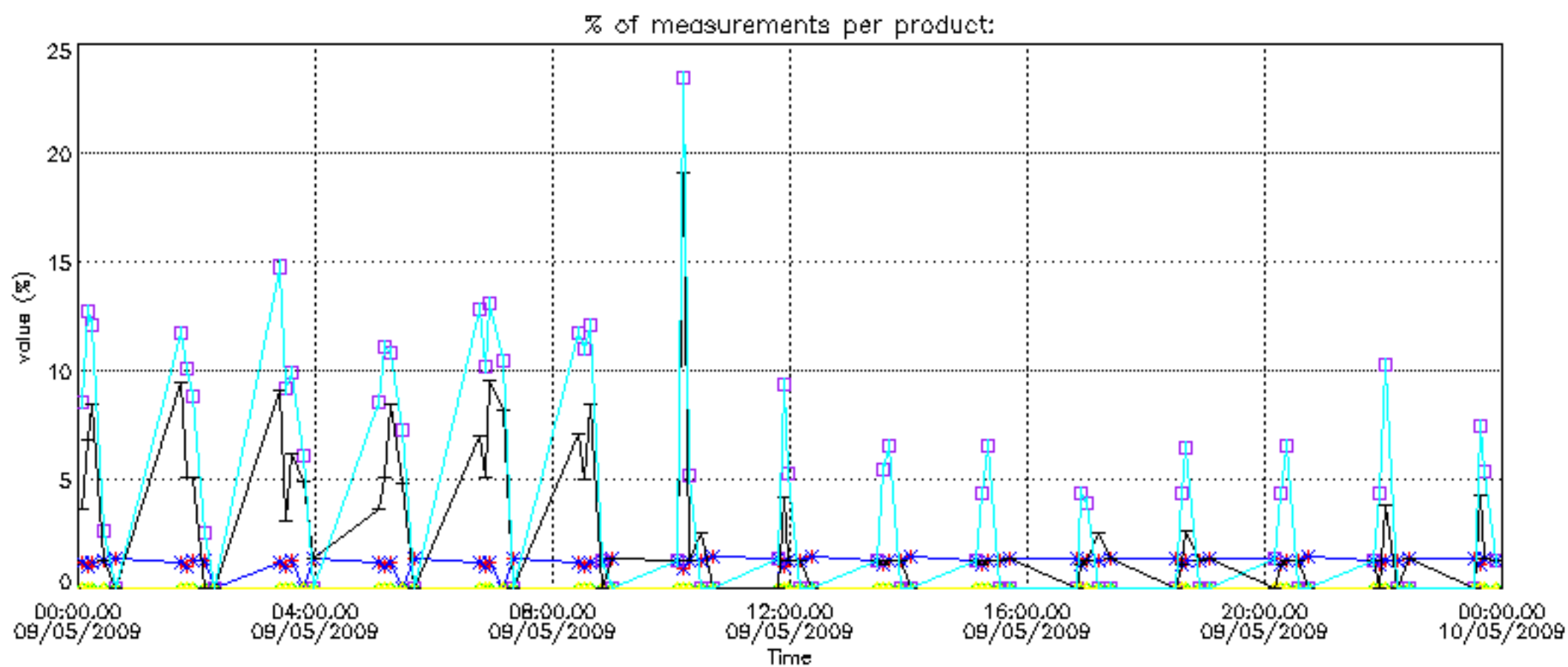
Percentage of flagged data per NO2 profile



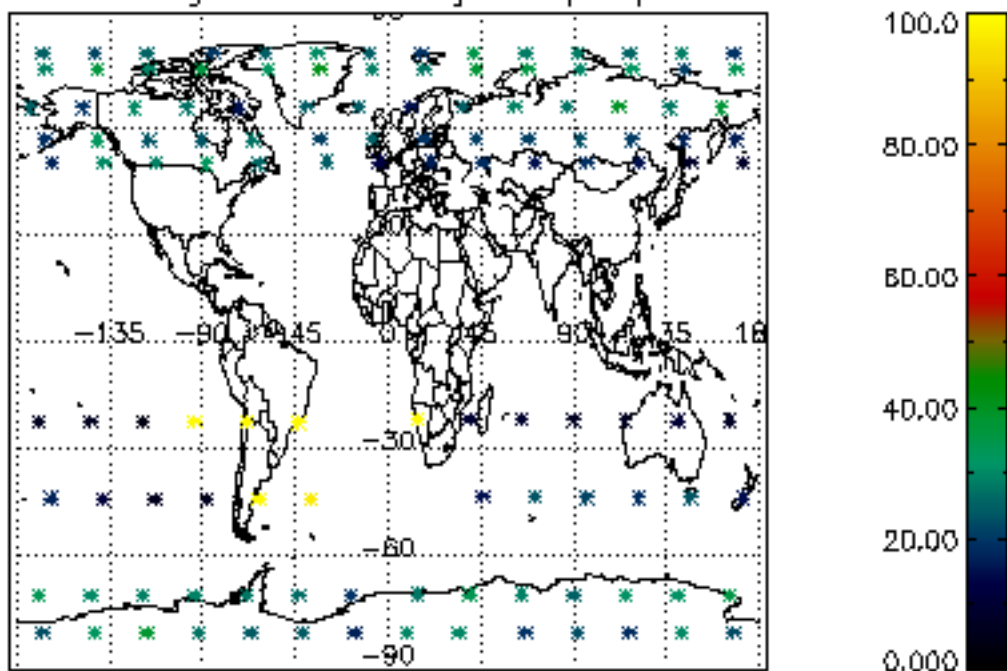
Percentage of flagged data per NO3 profile



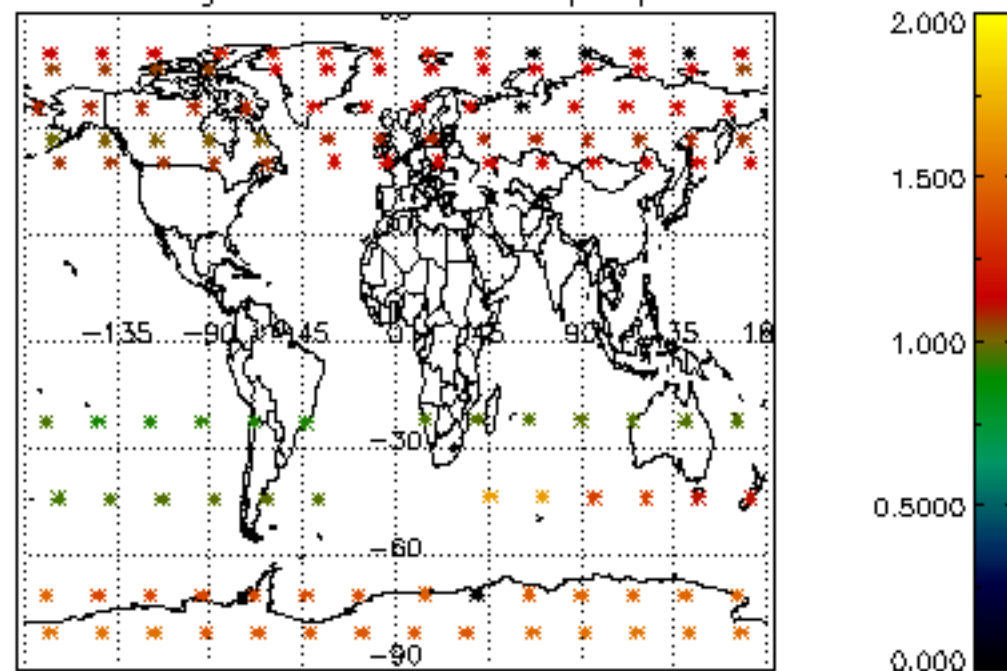




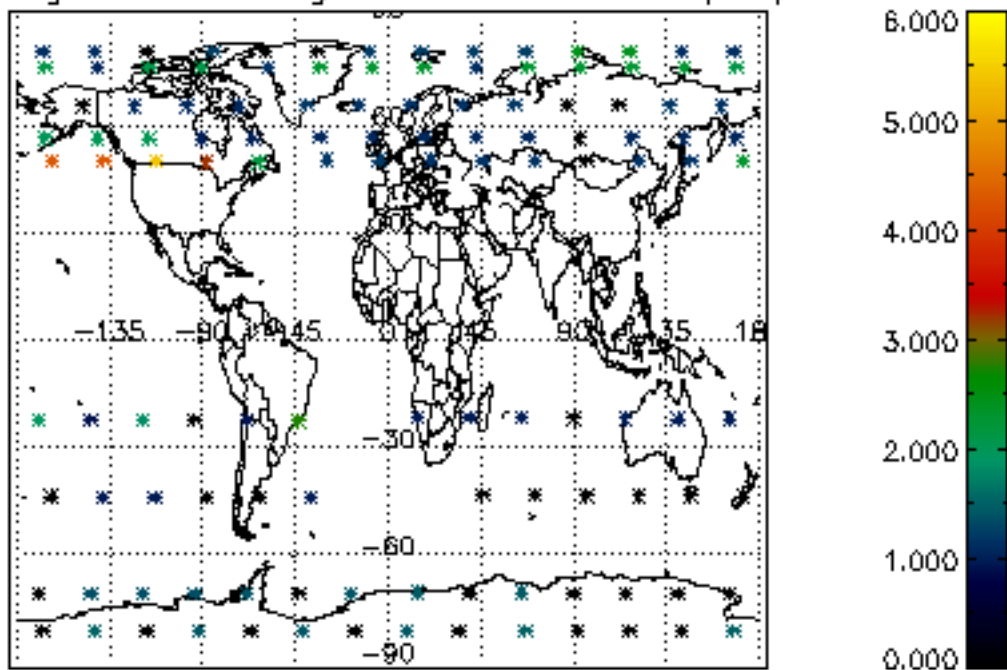
Percentage of cosmic ray hits per profile



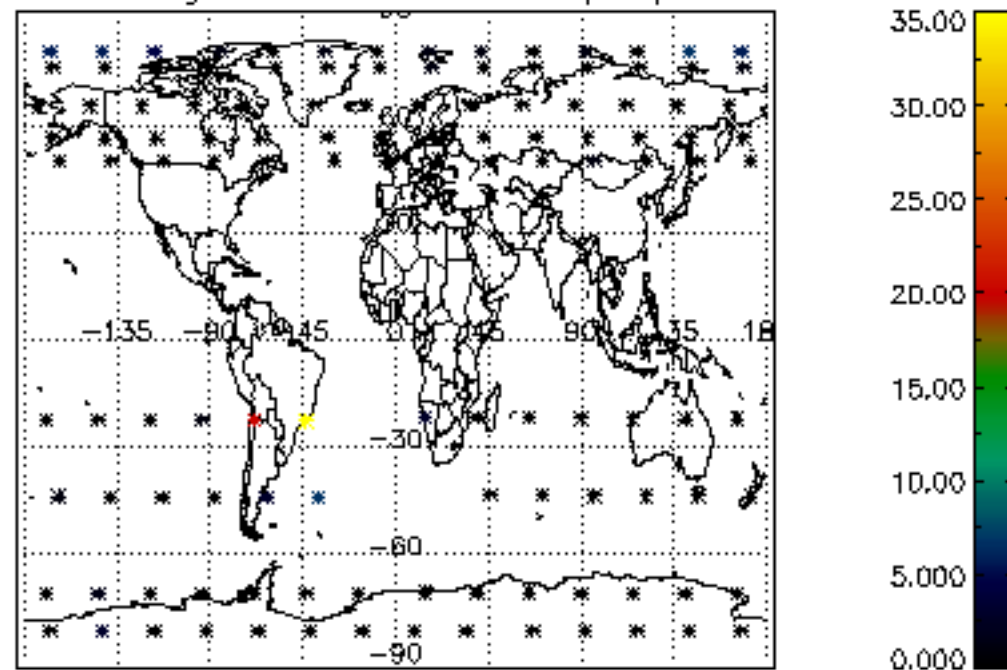
Percentage of datation errors per profile



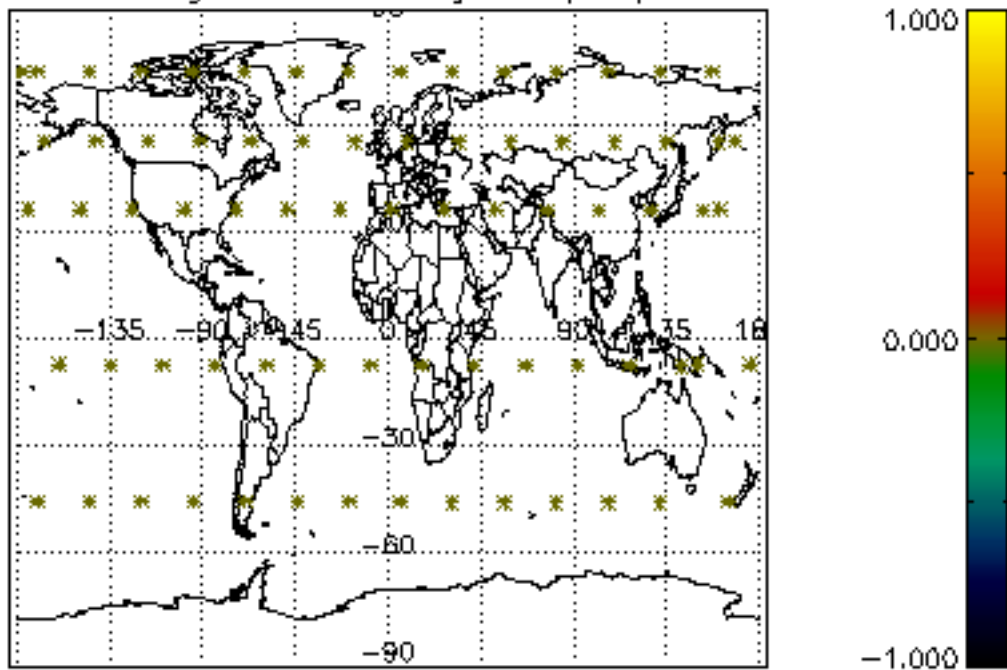
Percentage of star falling outside central band per profile



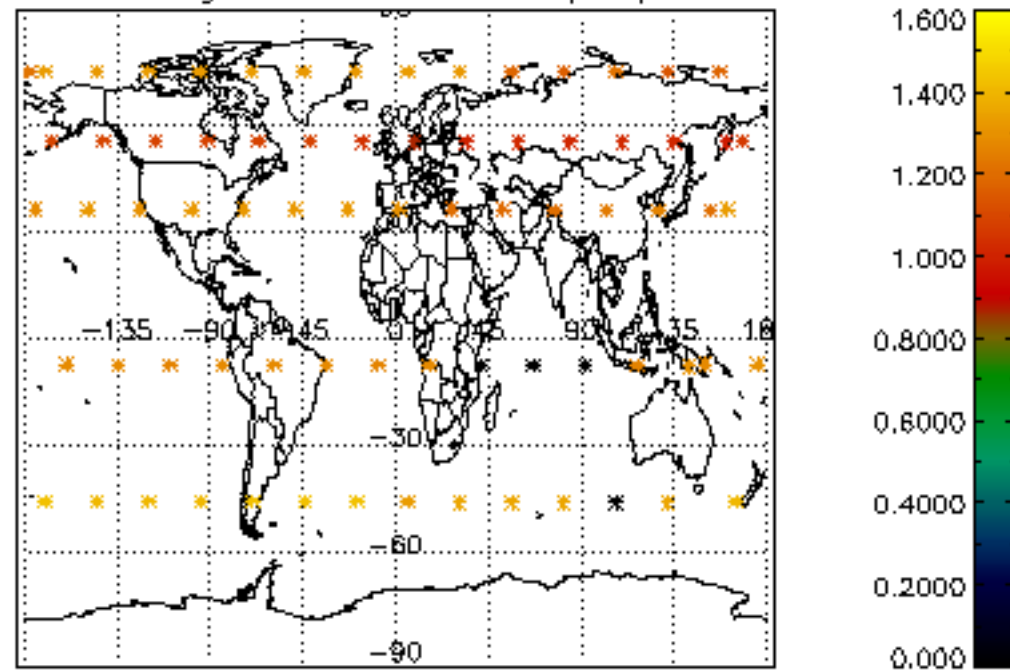
Percentage of saturation errors per profile



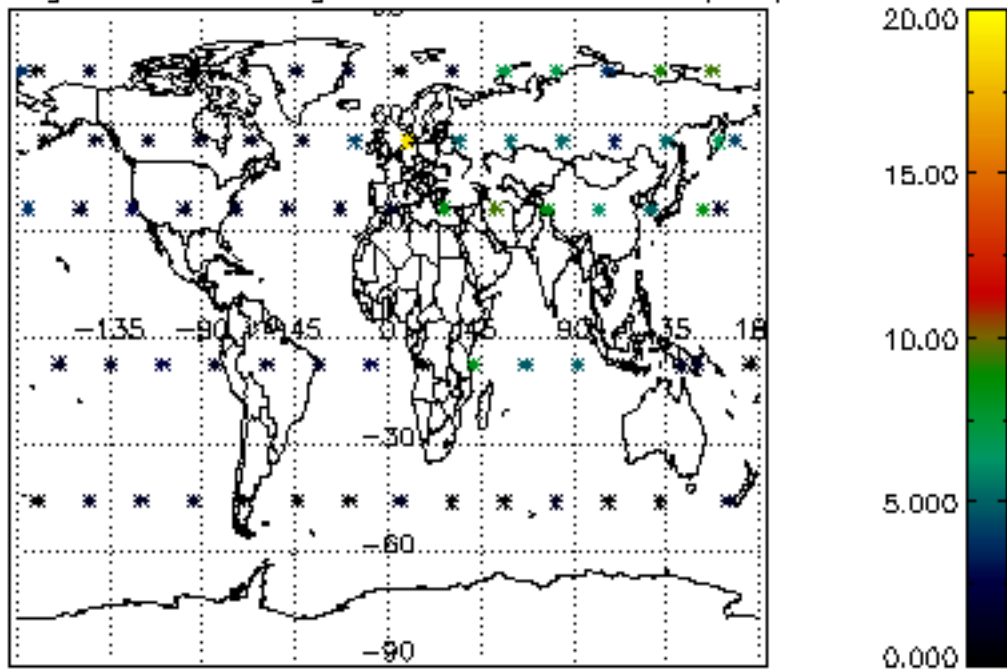
Percentage of cosmic ray hits per profile



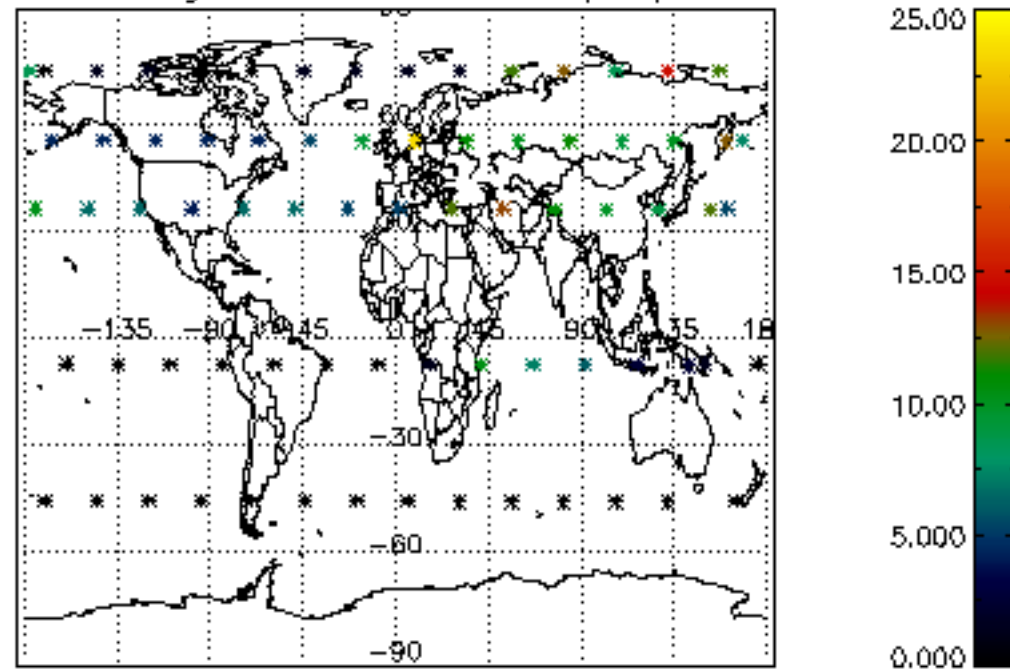
Percentage of datation errors per profile

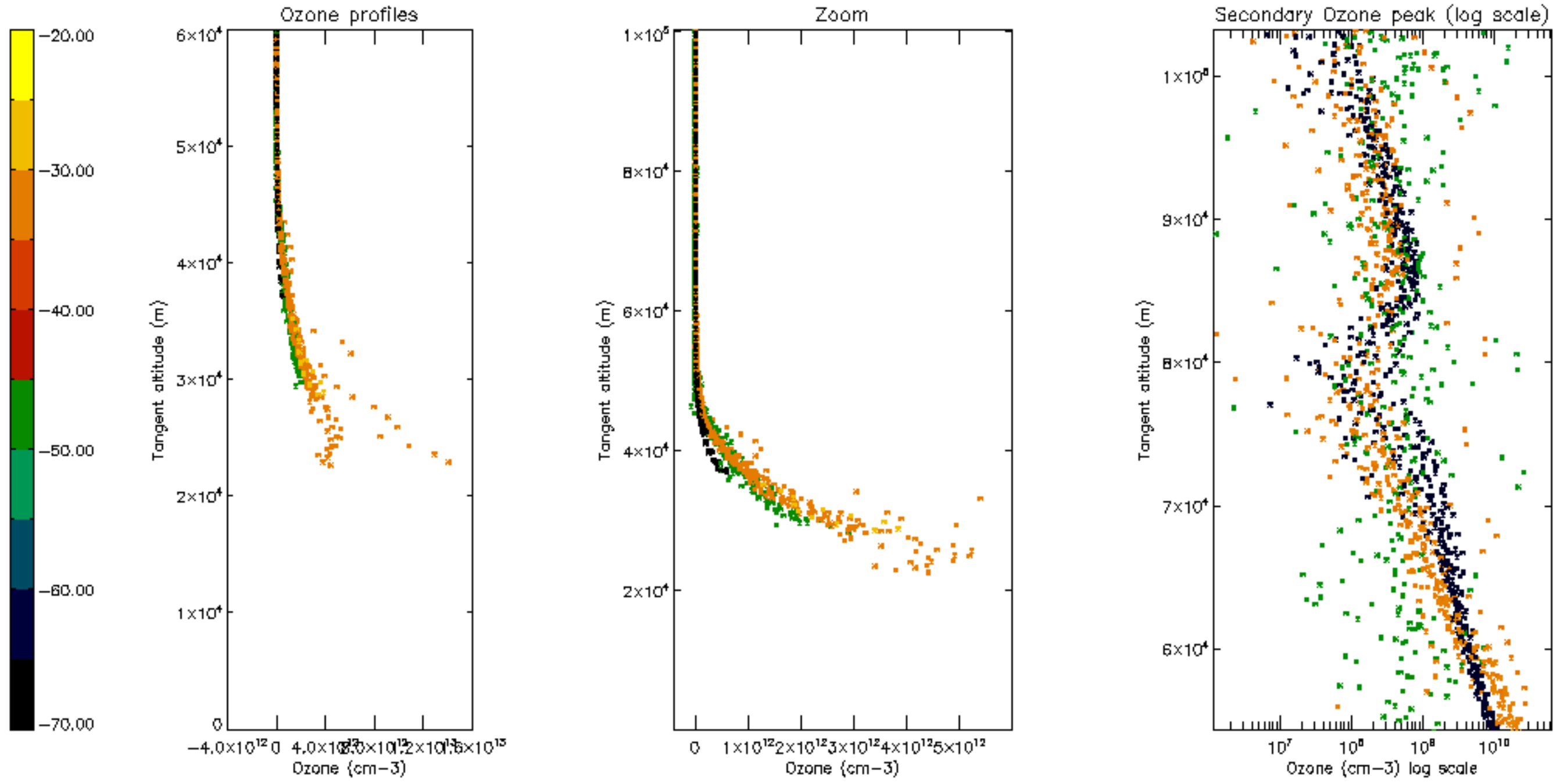


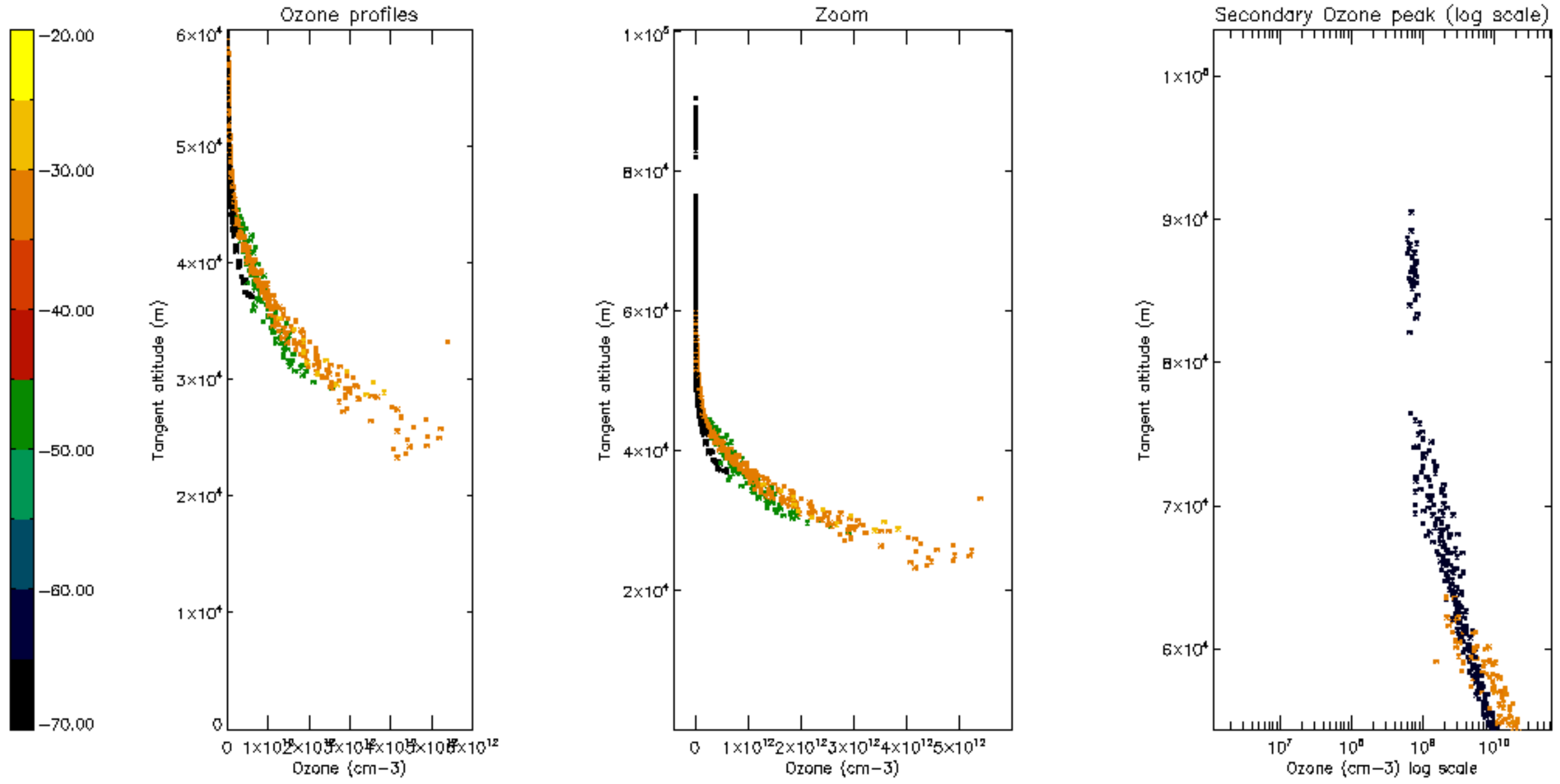
Percentage of star falling outside central band per profile

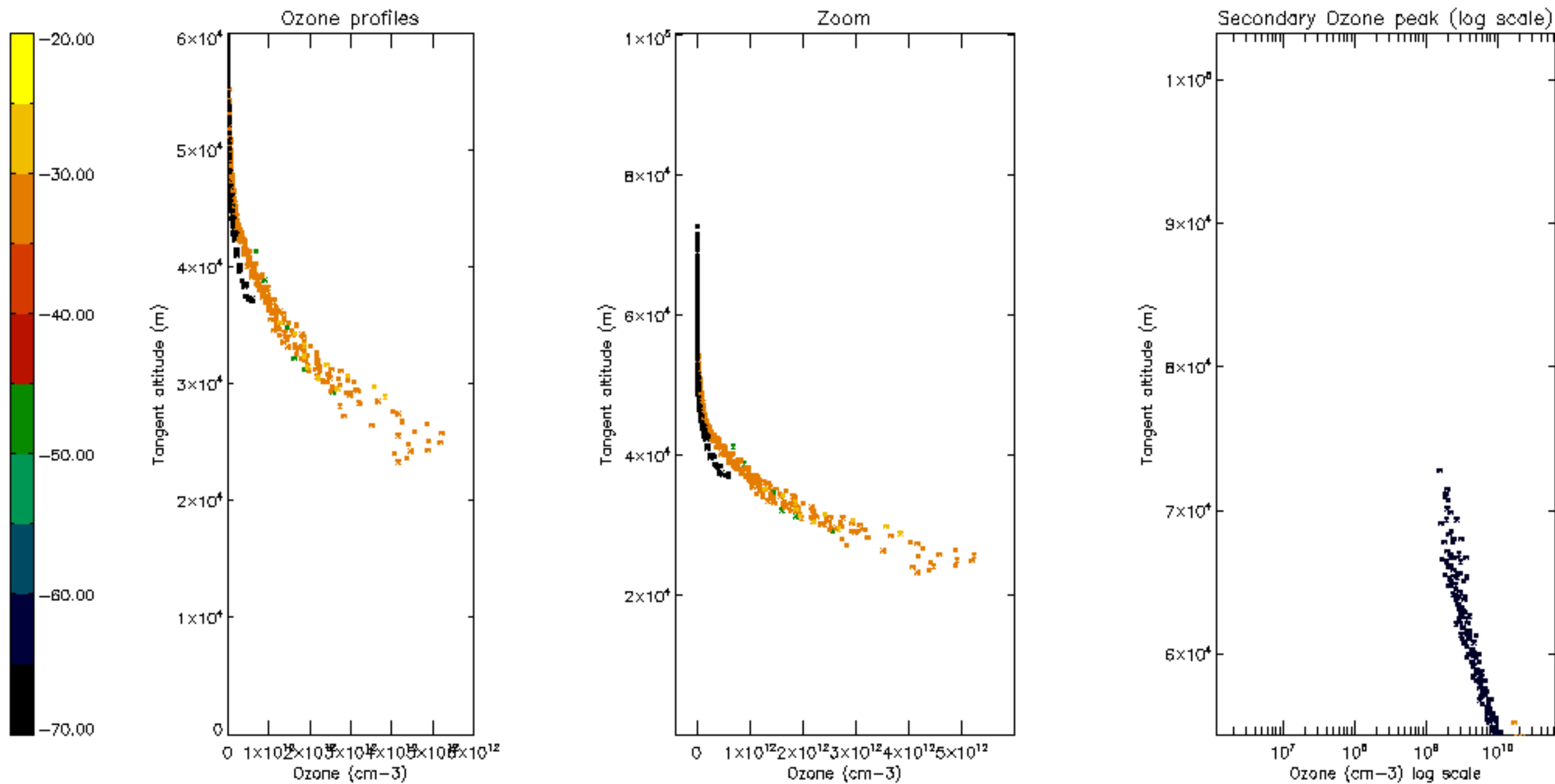


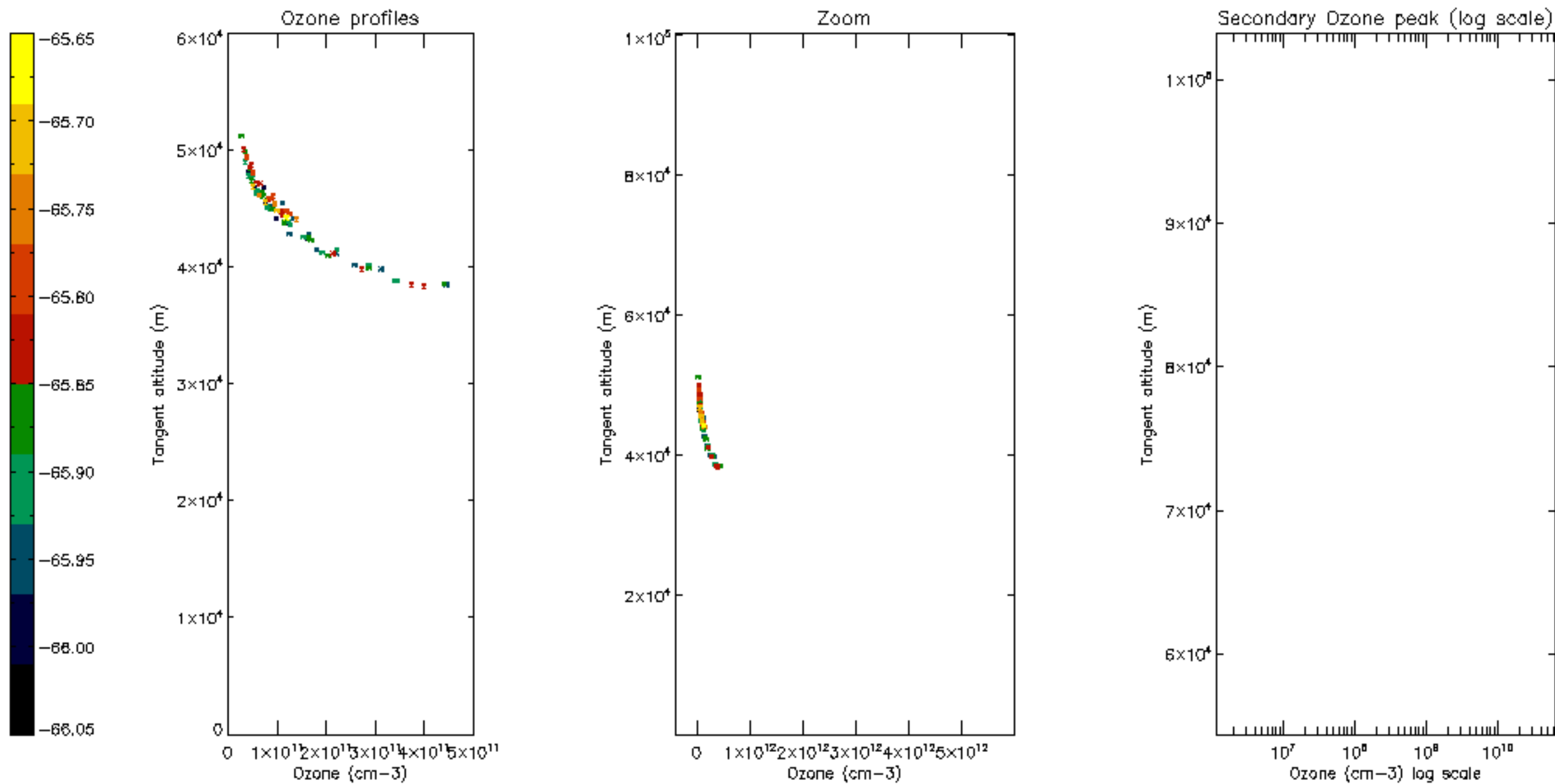
Percentage of saturation errors per profile

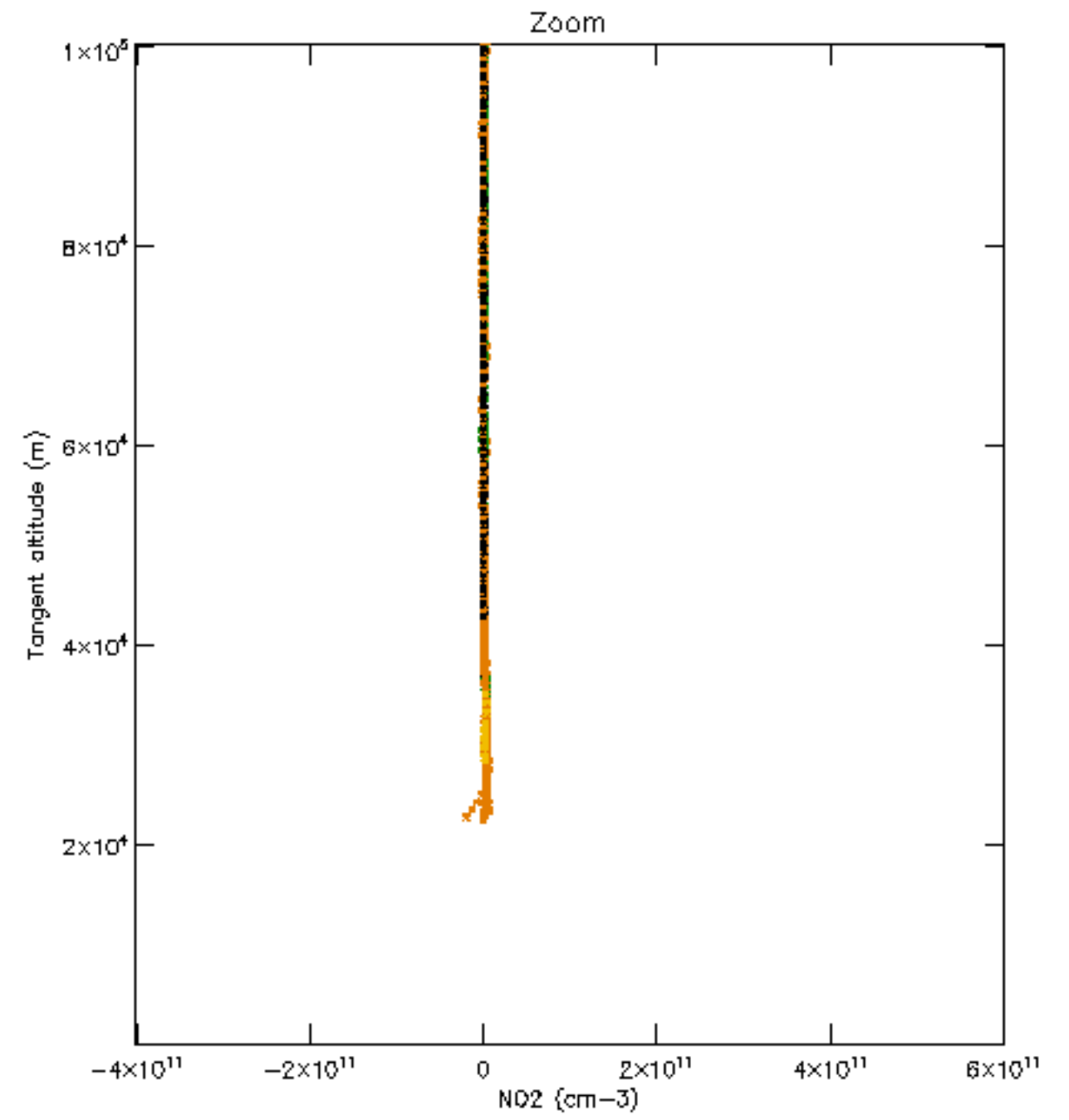
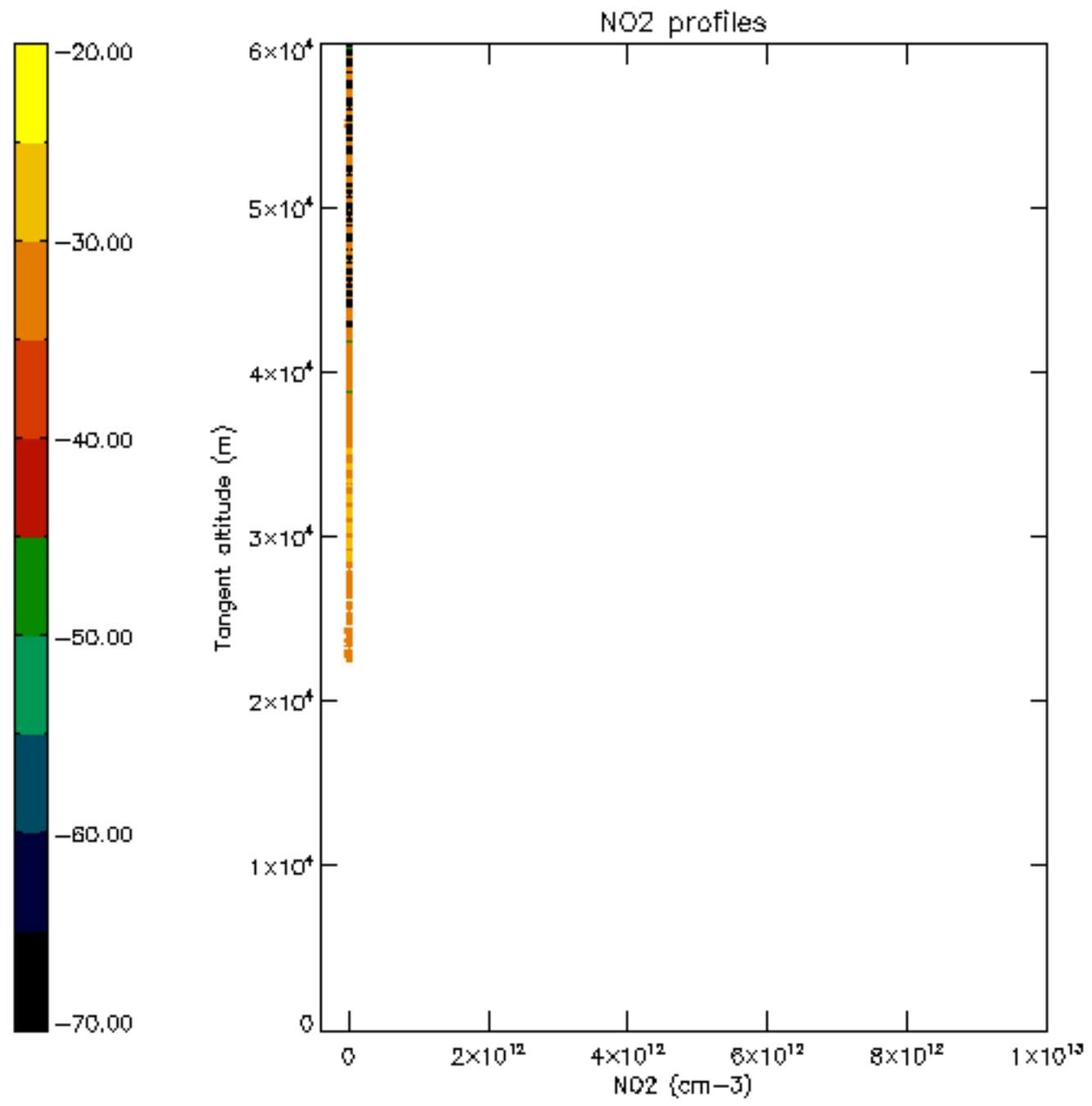


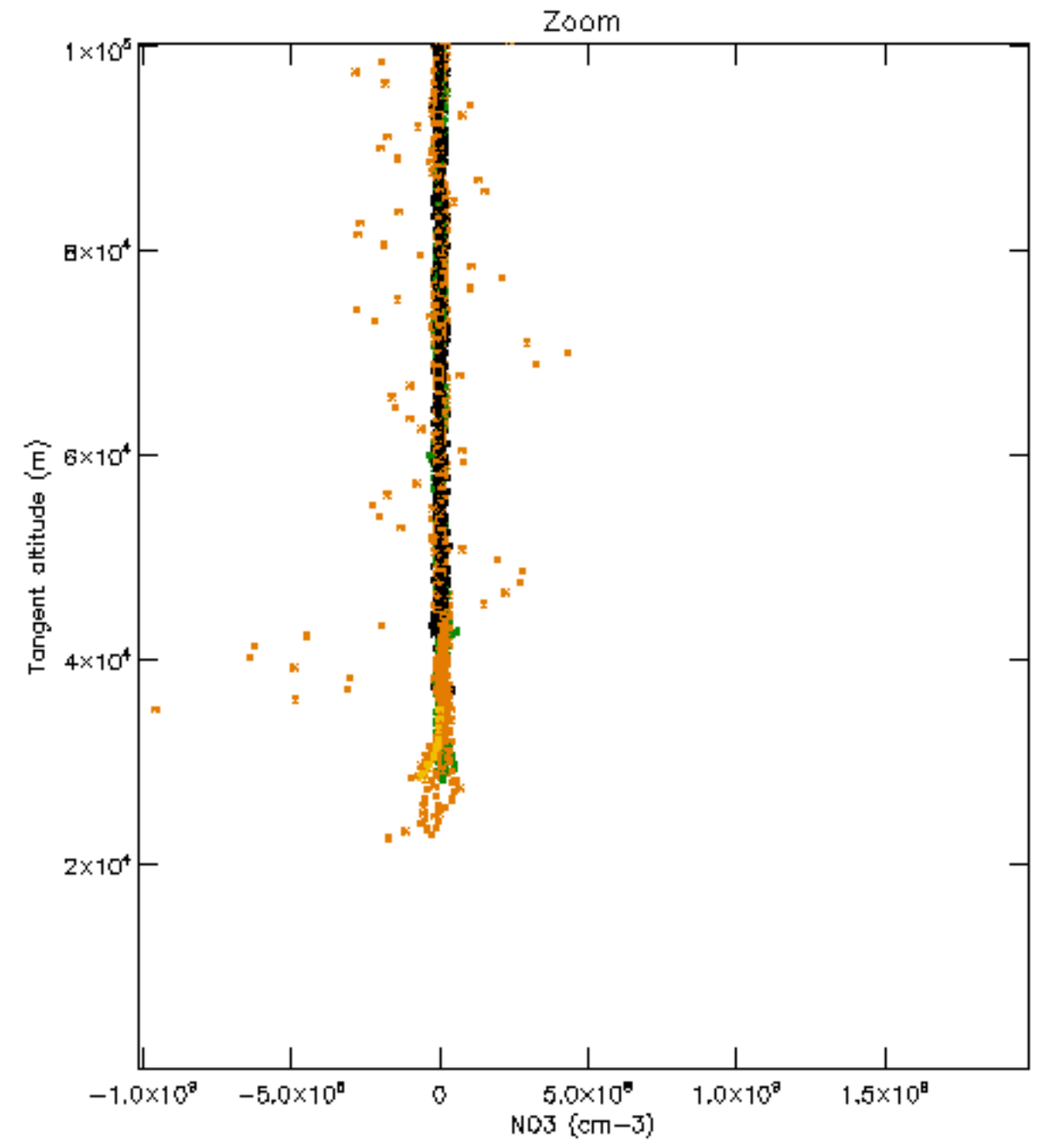
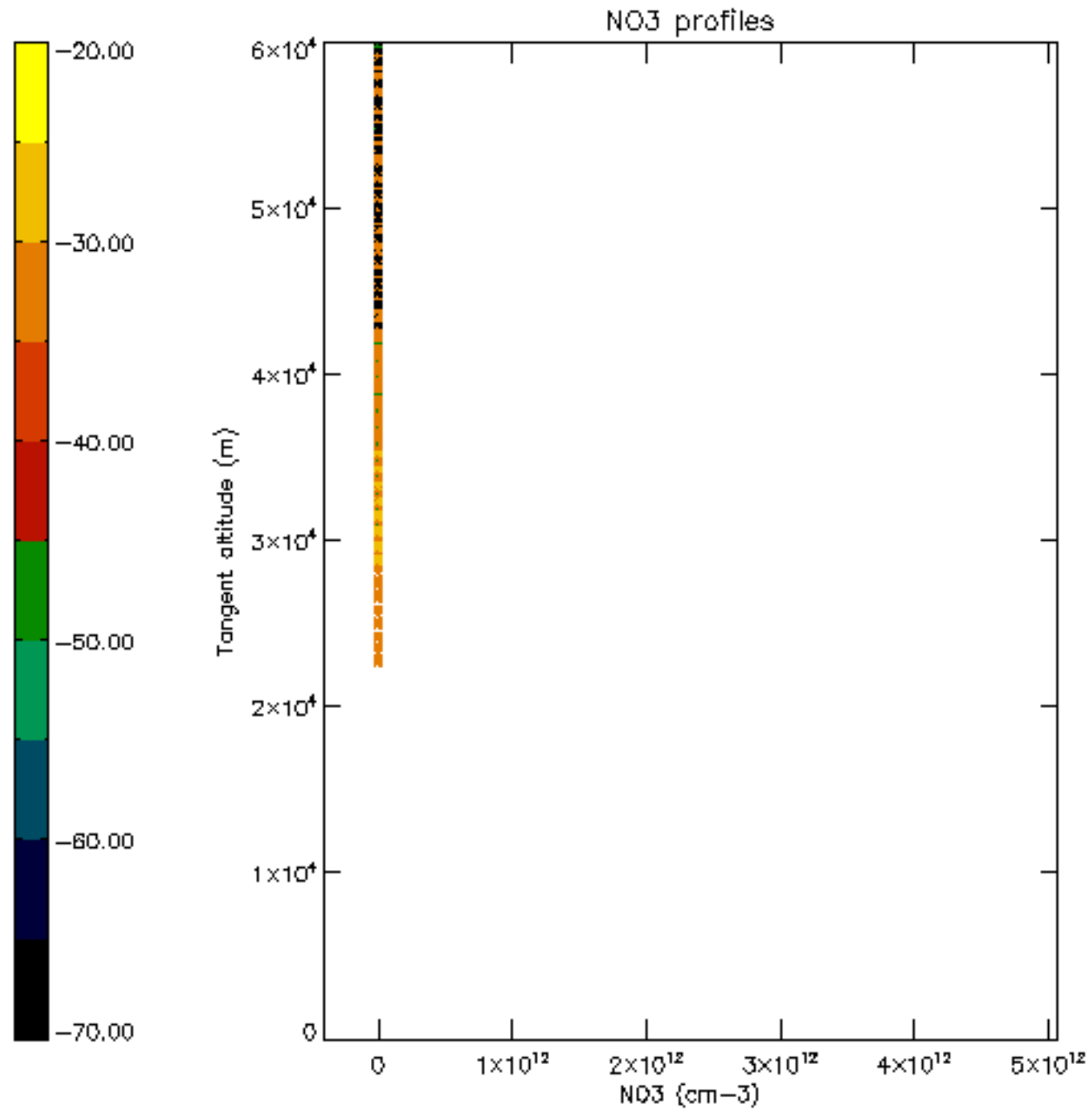


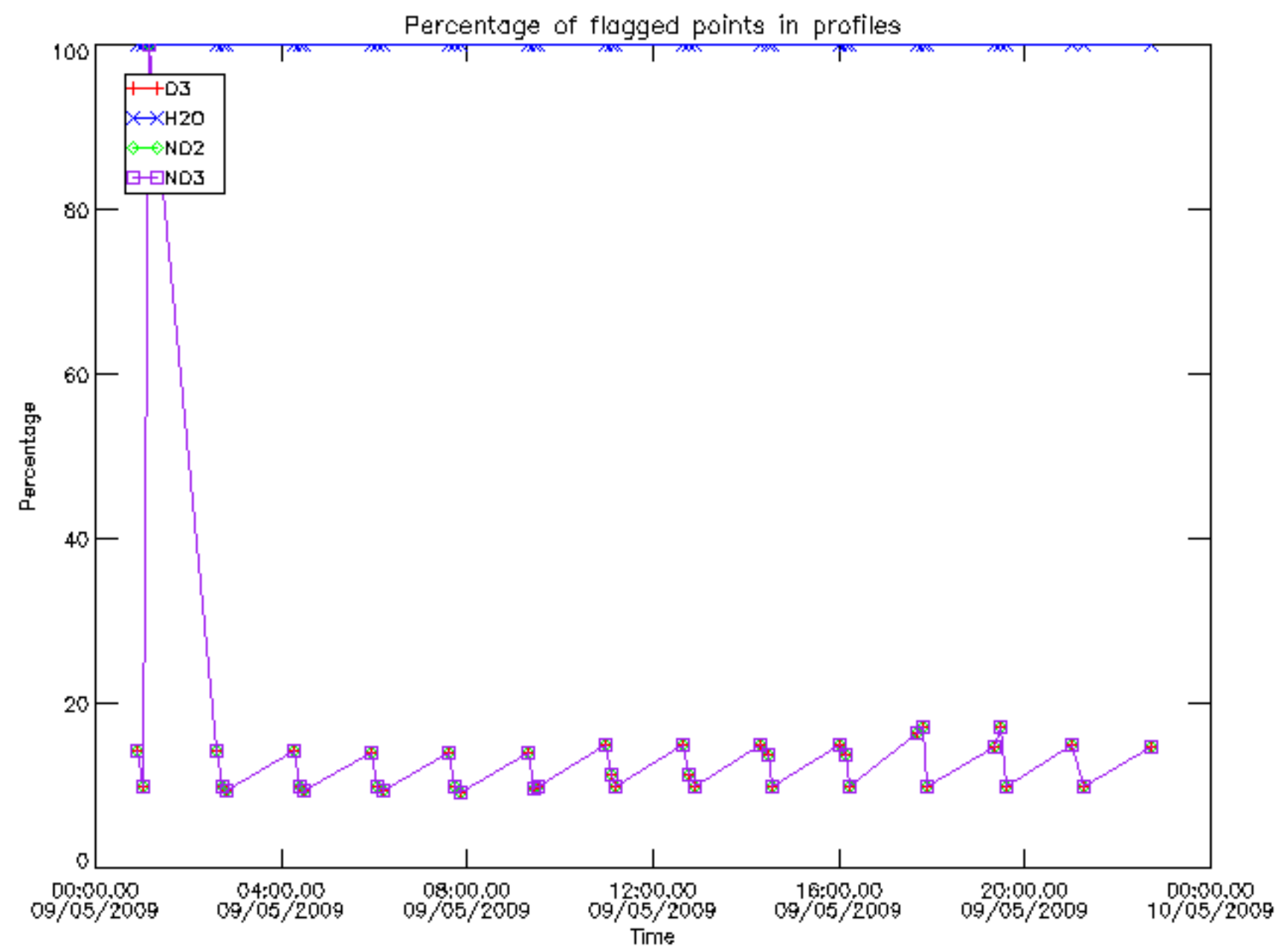




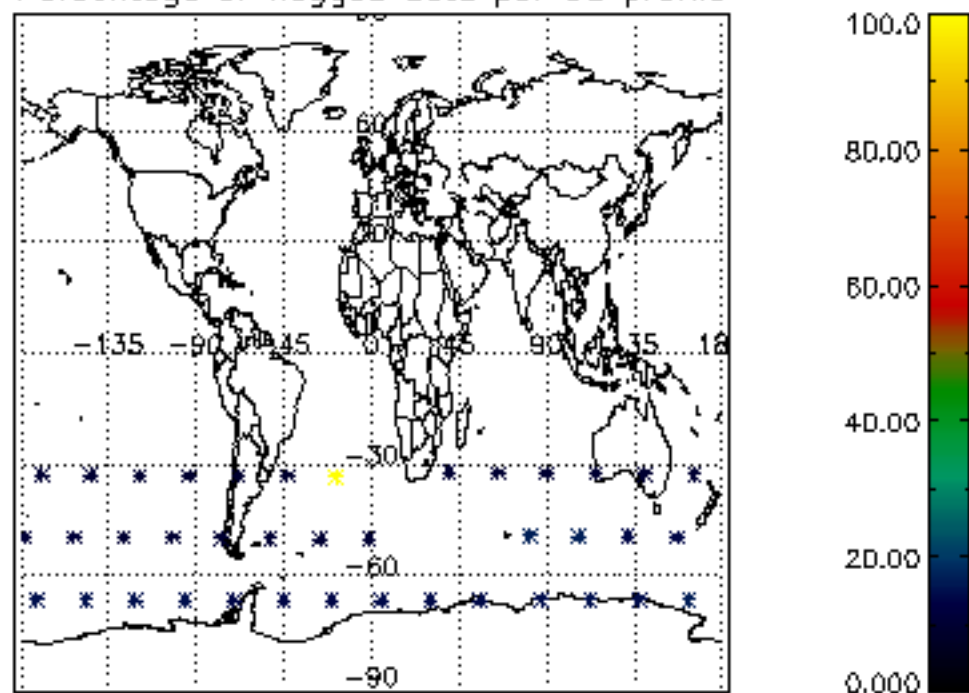




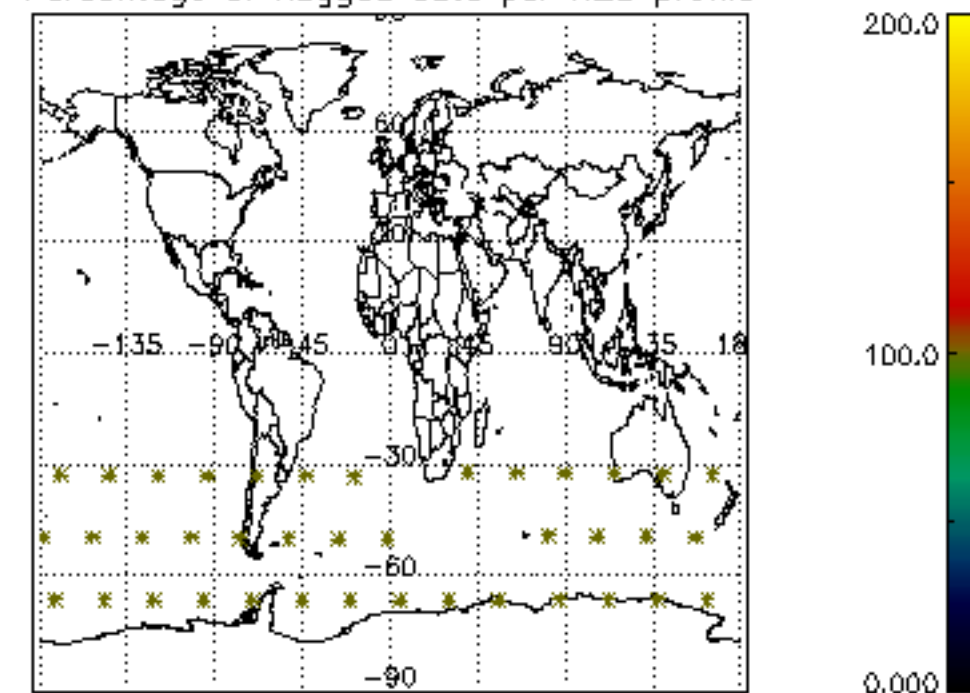




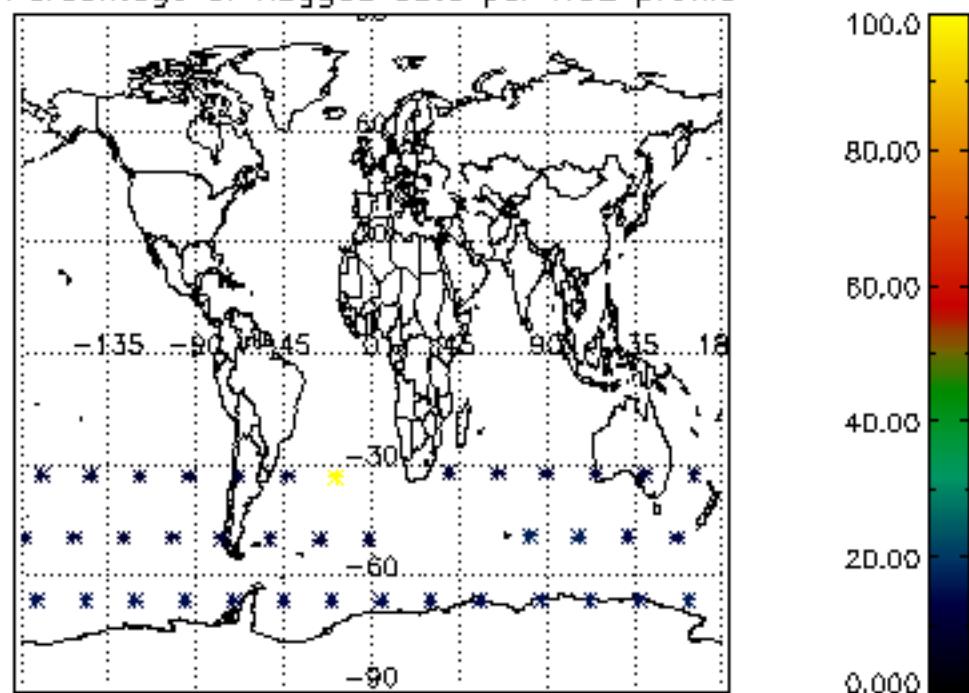
Percentage of flagged data per D3 profile



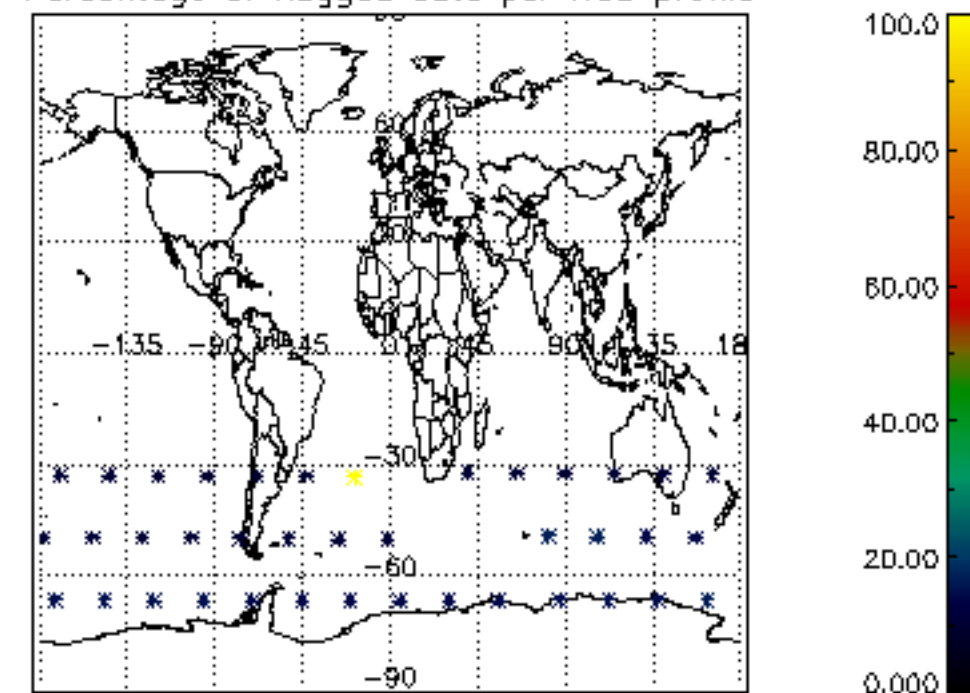
Percentage of flagged data per H2O profile

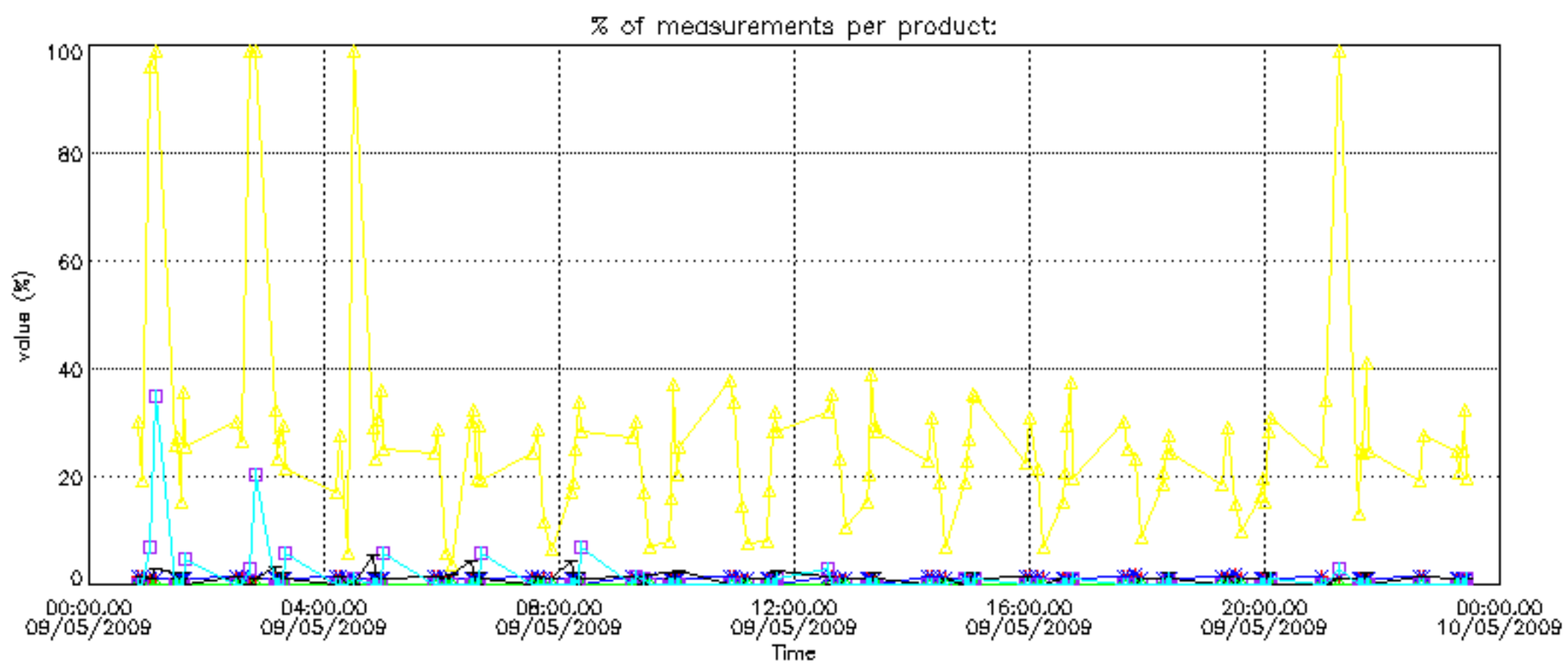


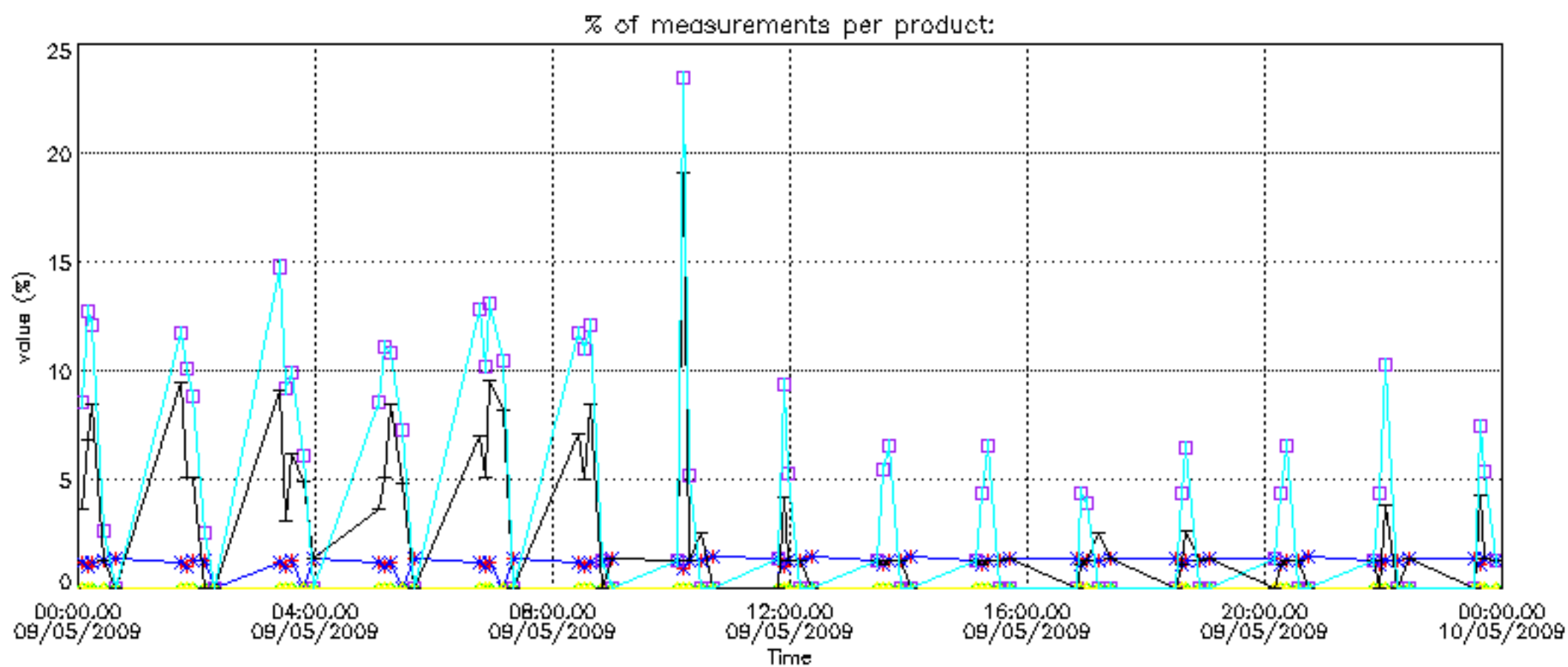
Percentage of flagged data per NO2 profile



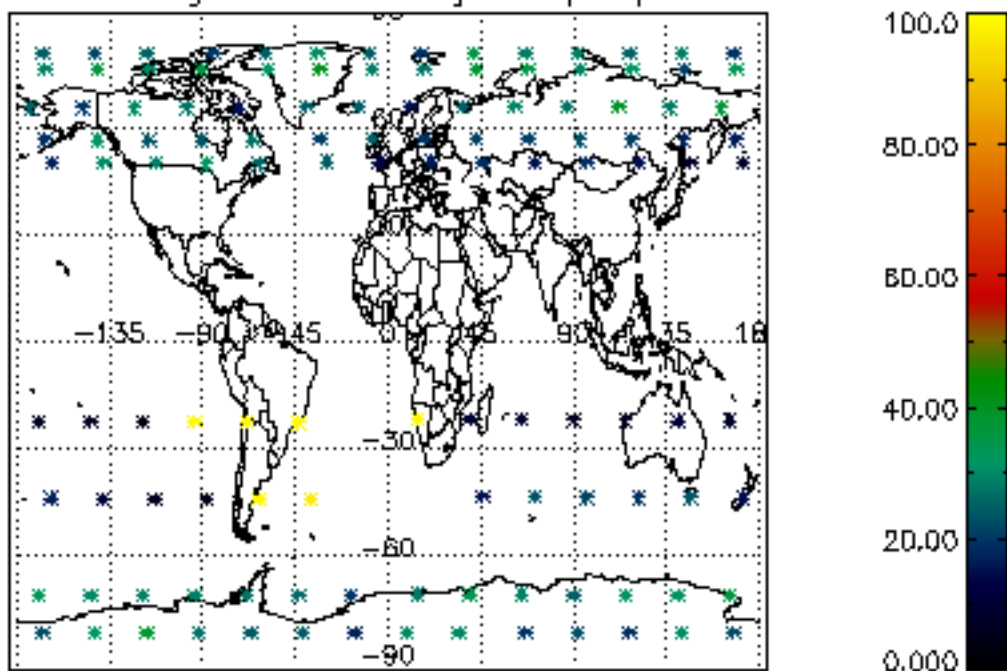
Percentage of flagged data per NO3 profile



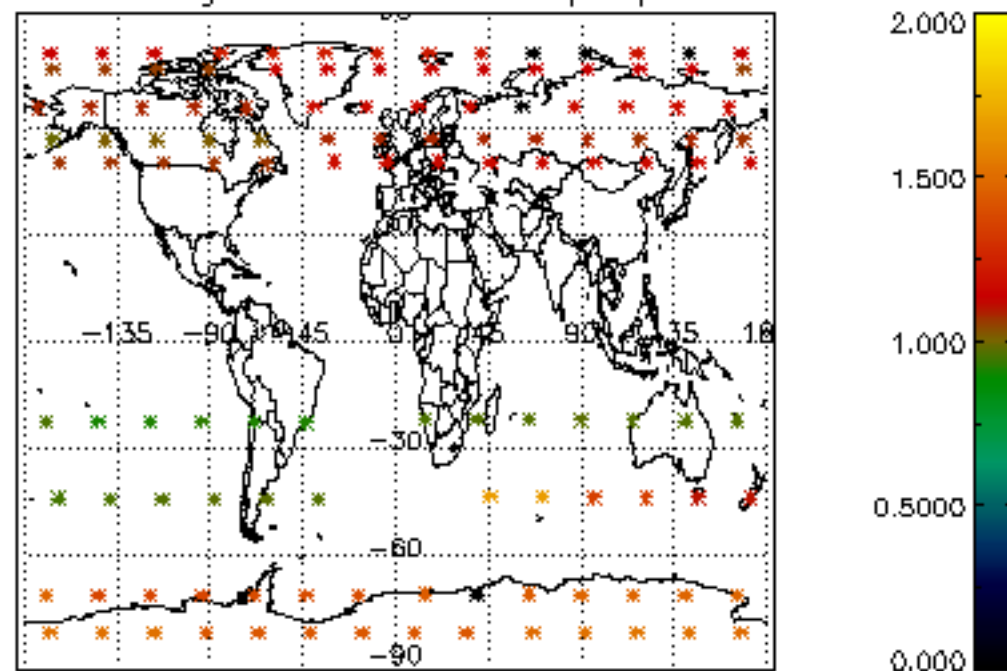




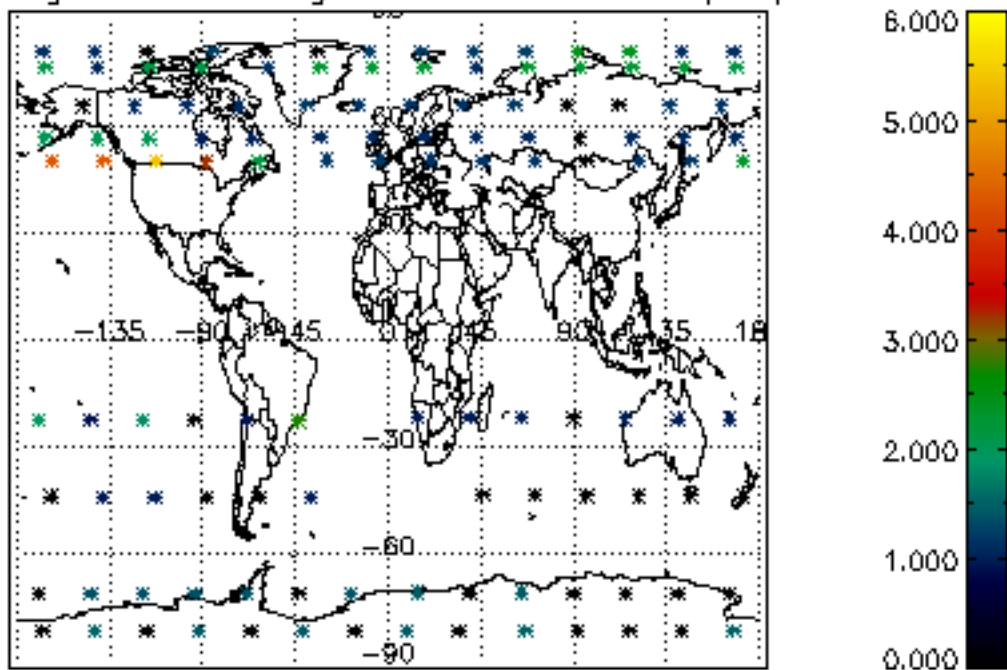
Percentage of cosmic ray hits per profile



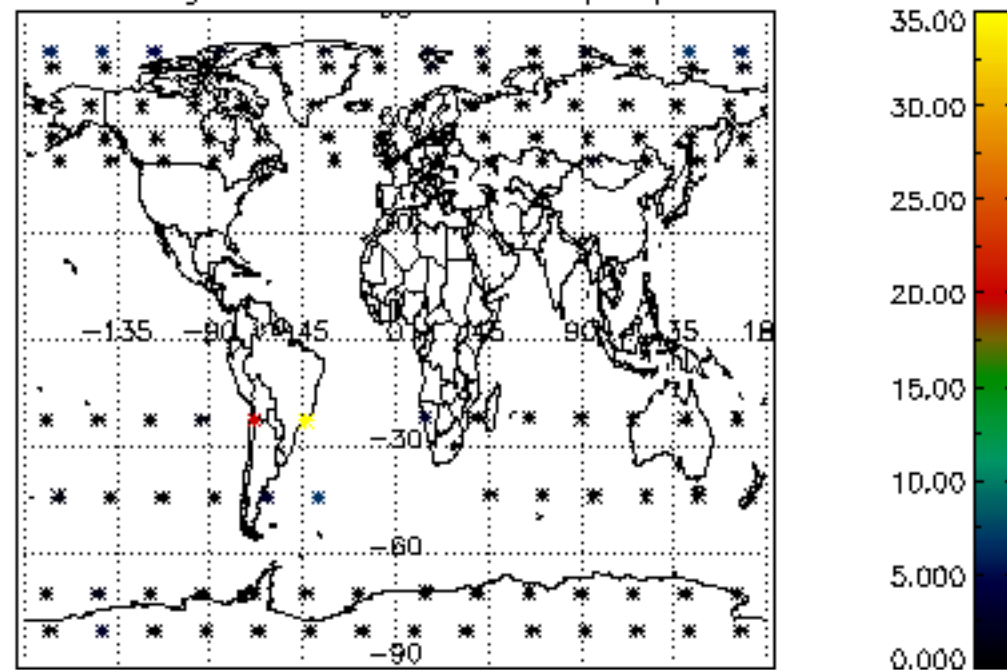
Percentage of datation errors per profile



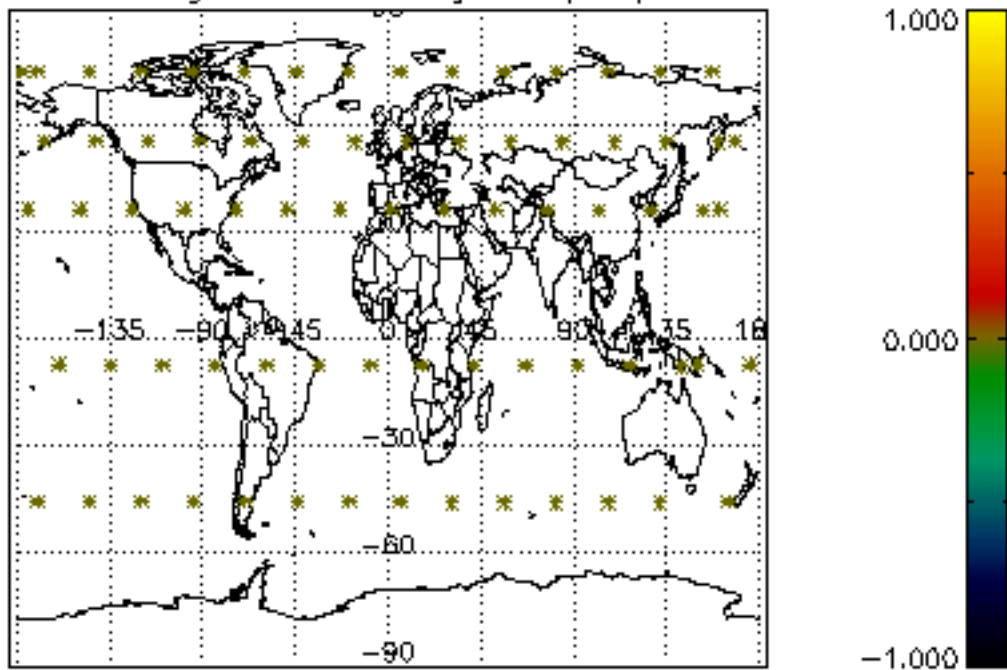
Percentage of star falling outside central band per profile



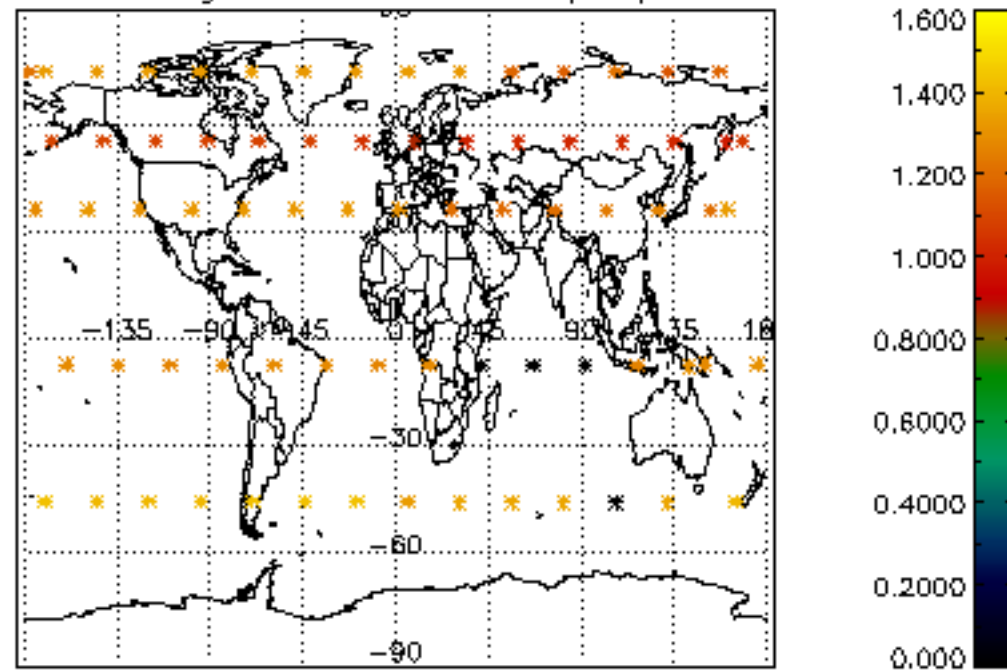
Percentage of saturation errors per profile



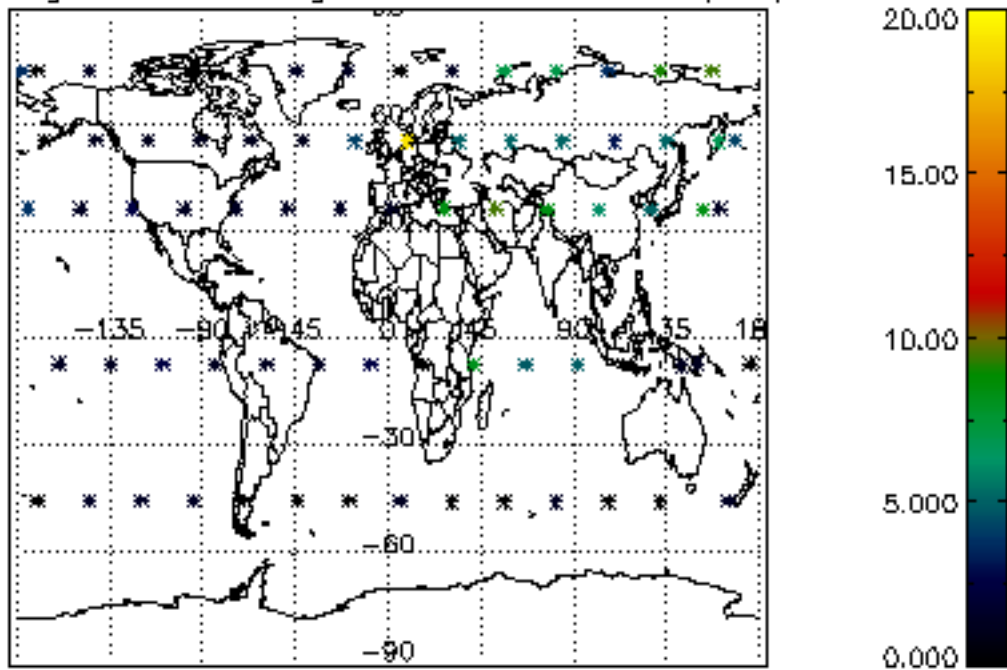
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

