

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 17:39:14
Data source version	GOMOS/6.01
Start time of products	09-09-2011 (09SEP2011 00:00:00)
Stop time of products	10-09-2011 (10SEP2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	83
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

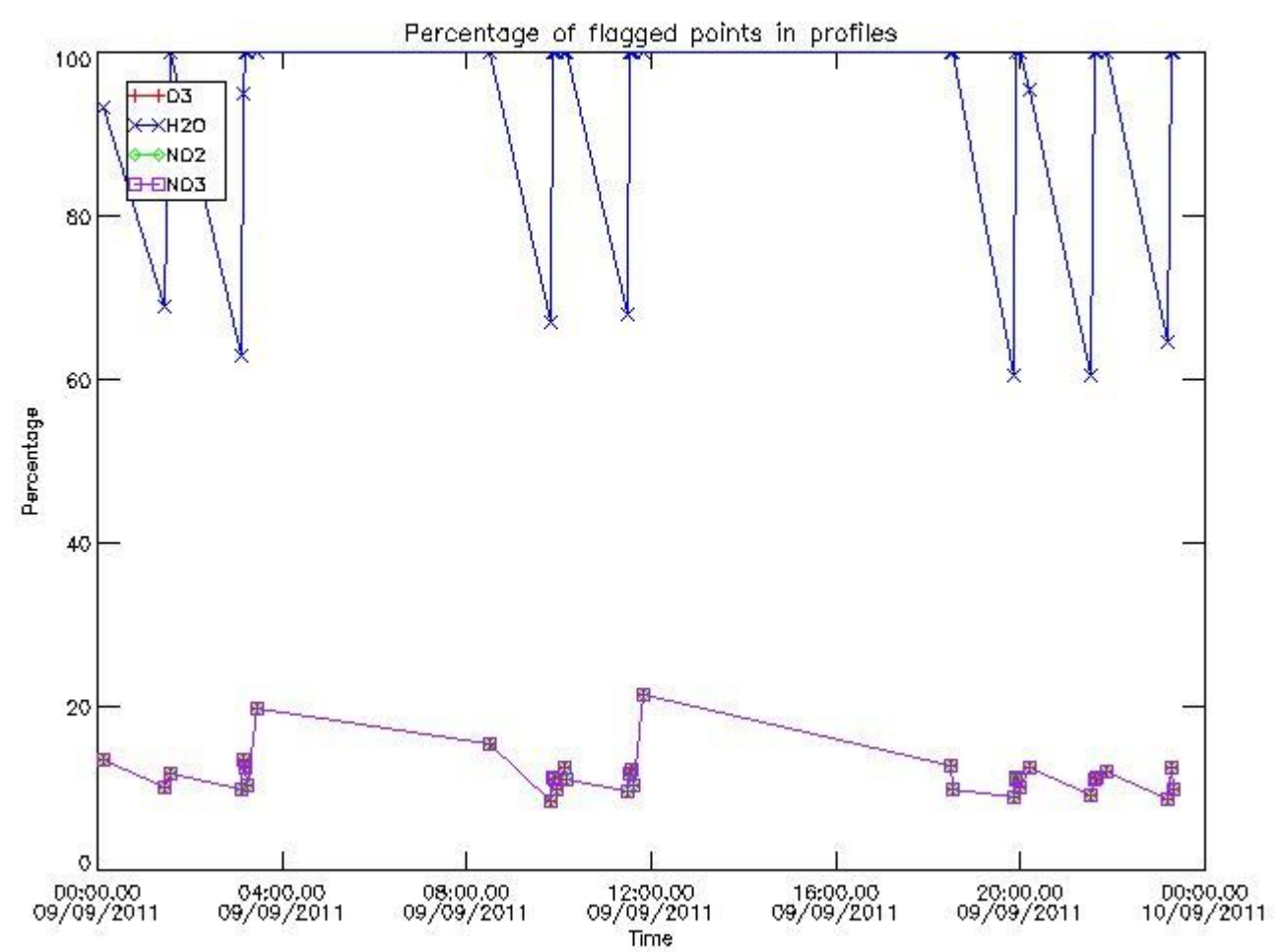
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110909_000823_000000533106_00232_49815_2741.N1	09-SEP-2011 00:08:23	Dark	53.000	9	Alp Eri	0.45300	24000.	106	49815	No
2	GOM_NL__2PRFIN20110909_001412_000000493106_00232_49815_2742.N1	09-SEP-2011 00:14:12	Straylight	49.000	84	Alp Phe	2.3970	4500.0	98	49815	No
3	GOM_NL__2PRFIN20110909_001943_000000443106_00232_49815_2743.N1	09-SEP-2011 00:19:43	Straylight	44.000	18	24Alp PsA	1.1660	9700.0	88	49815	No
4	GOM_NL__2PRFIN20110909_003337_000000443106_00232_49815_2744.N1	09-SEP-2011 00:33:37	Bright	44.000	90	54Alp Peg	2.4870	11000.	88	49815	No
5	GOM_NL__2PRFIN20110909_003750_000000413106_00232_49815_2745.N1	09-SEP-2011 00:37:50	Bright	40.500	164	44Eta Peg	2.9480	5400.0	81	49815	No
6	GOM_NL__2PRFIN20110909_004803_000000433106_00232_49815_2746.N1	09-SEP-2011 00:48:03	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	49815	No
7	GOM_NL__2PRFIN20110909_004959_000000453106_00232_49815_2747.N1	09-SEP-2011 00:49:59	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	49815	No
8	GOM_NL__2PRFIN20110909_011119_000000433106_00232_49815_2748.N1	09-SEP-2011 01:11:19	Bright	43.000	24	66Alp Gem	1.5800	10200.	86	49815	No
9	GOM_NL__2PRFIN20110909_012754_000000553106_00232_49815_2749.N1	09-SEP-2011 01:27:54	Dark	55.000	1	9Alp CMa	-1.4400	11000.	110	49815	No
10	GOM_NL__2PRFIN20110909_013545_000000483106_00232_49815_2750.N1	09-SEP-2011 01:35:45	Dark	47.500	108	Alp Col	2.6520	15200.	95	49815	No
11	GOM_NL__2PRFIN20110909_015427_000000493106_00233_49816_2749.N1	09-SEP-2011 01:54:27	Straylight	49.000	84	Alp Phe	2.3970	4500.0	98	49816	No
12	GOM_NL__2PRFIN20110909_021350_000000433106_00233_49816_2750.N1	09-SEP-2011 02:13:50	Bright	43.000	90	54Alp Peg	2.4870	11000.	86	49816	No
13	GOM_NL__2PRFIN20110909_021803_000000393106_00233_49816_2751.N1	09-SEP-2011 02:18:03	Bright	39.000	164	44Eta Peg	2.9480	5400.0	78	49816	No
14	GOM_NL__2PRFIN20110909_022816_000000403106_00233_49816_2752.N1	09-SEP-2011 02:28:16	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	49816	No
15	GOM_NL__2PRFIN20110909_023012_000000443106_00233_49816_2753.N1	09-SEP-2011 02:30:12	Bright	43.500	76	27Gam Cas	2.3000	30000.	87	49816	No
16	GOM_NL__2PRFIN20110909_025133_000000423106_00233_49816_2754.N1	09-SEP-2011 02:51:33	Bright	42.000	24	66Alp Gem	1.5800	10200.	84	49816	No
17	GOM_NL__2PRFIN20110909_030809_000000633106_00233_49816_2755.N1	09-SEP-2011 03:08:09	Dark	62.500	1	9Alp CMa	-1.4400	11000.	125	49816	No
18	GOM_NL__2PRFIN20110909_031038_000000493106_00233_49816_2756.N1	09-SEP-2011 03:10:38	Dark	49.000	23	21Eps CMa	1.5020	26000.	98	49816	No
19	GOM_NL__2PRFIN20110909_031245_000000453106_00233_49816_2757.N1	09-SEP-2011 03:12:45	Dark	45.000	177	1Zet CMa	3.0220	26000.	90	49816	No
20	GOM_NL__2PRFIN20110909_031600_000000493106_00233_49816_2758.N1	09-SEP-2011 03:16:00	Dark	48.500	108	Alp Col	2.6520	15200.	97	49816	No
21	GOM_NL__2PRFIN20110909_032729_000000413106_00234_49817_2794.N1	09-SEP-2011 03:27:29	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	49817	No
22	GOM_NL__2PRFIN20110909_082935_000000533106_00237_49820_2844.N1	09-SEP-2011 08:29:35	Dark	52.500	9	Alp Eri	0.45300	24000.	105	49820	No
23	GOM_NL__2PRFIN20110909_083525_000000503106_00237_49820_2845.N1	09-SEP-2011 08:35:25	Straylight	49.500	84	Alp Phe	2.3970	4500.0	99	49820	No
24	GOM_NL__2PRFIN20110909_084055_000000453106_00237_49820_2846.N1	09-SEP-2011 08:40:55	Straylight	45.000	18	24Alp PsA	1.1660	9700.0	90	49820	No
25	GOM_NL__2PRFIN20110909_085445_000000433106_00237_49820_2847.N1	09-SEP-2011 08:54:45	Bright	43.000	90	54Alp Peg	2.4870	11000.	86	49820	No
26	GOM_NL__2PRFIN20110909_085858_000000403106_00237_49820_2848.N1	09-SEP-2011 08:58:58	Bright	39.500	164	44Eta Peg	2.9480	5400.0	79	49820	No
27	GOM_NL__2PRFIN20110909_090910_000000433106_00237_49820_2849.N1	09-SEP-2011 09:09:10	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	49820	No
28	GOM_NL__2PRFIN20110909_091106_000000443106_00237_49820_2850.N1	09-SEP-2011 09:11:06	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	49820	No
29	GOM_NL__2PRFIN20110909_093230_000000593106_00237_49820_2851.N1	09-SEP-2011 09:32:30	Bright	59.000	24	66Alp Gem	1.5800	10200.	118	49820	No
30	GOM_NL__2PRFIN20110909_094908_000000613106_00237_49820_2852.N1	09-SEP-2011 09:49:08	Dark	61.000	1	9Alp CMa	-1.4400	11000.	122	49820	No
31	GOM_NL__2PRFIN20110909_095136_000000453106_00237_49820_2853.N1	09-SEP-2011 09:51:36	Dark	45.000	23	21Eps CMa	1.5020	26000.	90	49820	No
32	GOM_NL__2PRFIN20110909_095344_000000463106_00237_49820_2854.N1	09-SEP-2011 09:53:44	Dark	46.000	177	1Zet CMa	3.0220	26000.	92	49820	No
33	GOM_NL__2PRFIN20110909_095701_000000513106_00237_49820_2855.N1	09-SEP-2011 09:57:01	Dark	51.000	108	Alp Col	2.6520	15200.	102	49820	No
34	GOM_NL__2PRFIN20110909_100827_000000413106_00238_49821_2875.N1	09-SEP-2011 10:08:27	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	49821	No
35	GOM_NL__2PRFIN20110909_100950_000000463106_00238_49821_2876.N1	09-SEP-2011 10:09:50	Dark	46.000	9	Alp Eri	0.45300	24000.	92	49821	No
36	GOM_NL__2PRFIN20110909_101539_000000483106_00238_49821_2877.N1	09-SEP-2011 10:15:39	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	49821	No
37	GOM_NL__2PRFIN20110909_103459_000000433106_00238_49821_2878.N1	09-SEP-2011 10:34:59	Bright	43.000	90	54Alp Peg	2.4870	11000.	86	49821	No
38	GOM_NL__2PRFIN20110909_103912_000000383106_00238_49821_2879.N1	09-SEP-2011 10:39:12	Bright	38.000	164	44Eta Peg	2.9480	5400.0	76	49821	No
39	GOM_NL__2PRFIN20110909_104924_000000433106_00238_49821_2880.N1	09-SEP-2011 10:49:24	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	49821	No
40	GOM_NL__2PRFIN20110909_111244_000000403106_00238_49821_2881.N1	09-SEP-2011 11:12:44	Bright	40.000	24	66Alp Gem	1.5800	10200.	80	49821	No
41	GOM_NL__2PRFIN20110909_112923_000000543106_00238_49821_2882.N1	09-SEP-2011 11:29:23	Dark	53.500	1	9Alp CMa	-1.4400	11000.	107	49821	No
42	GOM_NL__2PRFIN20110909_113151_000000433106_00238_49821_2883.N1	09-SEP-2011 11:31:51	Dark	43.000	23	21Eps CMa	1.5020	26000.	86	49821	No

43	GOM_NL__2PRFIN20110909_113359_000000463106_00238_49821_2884.N1	09-SEP-2011 11:33:59	Dark	45.500	177	1Zet CMa	3.0220	26000.	91	49821	No
44	GOM_NL__2PRFIN20110909_113715_000000503106_00238_49821_2885.N1	09-SEP-2011 11:37:15	Dark	49.500	108	Alp Col	2.6520	15200.	99	49821	No
45	GOM_NL__2PRFIN20110909_114842_000000243106_00239_49822_2941.N1	09-SEP-2011 11:48:42	Dark	23.500	143	Alp Hyi	2.8570	7200.0	47	49822	No
46	GOM_NL__2PRFIN20110909_182940_000000403106_00243_49826_3071.N1	09-SEP-2011 18:29:40	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	49826	No
47	GOM_NL__2PRFIN20110909_183102_000000513106_00243_49826_3072.N1	09-SEP-2011 18:31:02	Dark	51.000	9	Alp Eri	0.45300	24000.	102	49826	No
48	GOM_NL__2PRFIN20110909_183651_000000513106_00243_49826_3073.N1	09-SEP-2011 18:36:51	Straylight	50.500	84	Alp Phe	2.3970	4500.0	101	49826	No
49	GOM_NL__2PRFIN20110909_184220_000000443106_00243_49826_3074.N1	09-SEP-2011 18:42:20	Straylight	44.000	18	24Alp PsA	1.1660	9700.0	88	49826	No
50	GOM_NL__2PRFIN20110909_185608_000000423106_00243_49826_3075.N1	09-SEP-2011 18:56:08	Bright	42.000	90	54Alp Peg	2.4870	11000.	84	49826	No
51	GOM_NL__2PRFIN20110909_190021_000000403106_00243_49826_3076.N1	09-SEP-2011 19:00:21	Bright	40.000	164	44Eta Peg	2.9480	5400.0	80	49826	No
52	GOM_NL__2PRFIN20110909_191031_000000433106_00243_49826_3077.N1	09-SEP-2011 19:10:31	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	49826	No
53	GOM_NL__2PRFIN20110909_191226_000000453106_00243_49826_3078.N1	09-SEP-2011 19:12:26	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	49826	No
54	GOM_NL__2PRFIN20110909_193354_000000443106_00243_49826_3079.N1	09-SEP-2011 19:33:54	Bright	43.500	24	66Alp Gem	1.5800	10200.	87	49826	No
55	GOM_NL__2PRFIN20110909_193651_000000583106_00243_49826_3080.N1	09-SEP-2011 19:36:51	Twilight	58.000	170	27Eps Gem	3.0000	9700.0	116	49826	No
56	GOM_NL__2PRFIN20110909_194208_000000523106_00243_49826_3081.N1	09-SEP-2011 19:42:08	Twilight	52.000	8	10Alp CMi	0.40000	6500.0	104	49826	No
57	GOM_NL__2PRFIN20110909_195037_000000583106_00243_49826_3082.N1	09-SEP-2011 19:50:37	Dark	57.500	1	9Alp CMa	-1.4400	11000.	115	49826	No
58	GOM_NL__2PRFIN20110909_195305_000000463106_00243_49826_3083.N1	09-SEP-2011 19:53:05	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	49826	No
59	GOM_NL__2PRFIN20110909_195514_000000453106_00243_49826_3084.N1	09-SEP-2011 19:55:14	Dark	45.000	177	1Zet CMa	3.0220	26000.	90	49826	No
60	GOM_NL__2PRFIN20110909_195831_000000503106_00243_49826_3085.N1	09-SEP-2011 19:58:31	Dark	50.000	108	Alp Col	2.6520	15200.	100	49826	No
61	GOM_NL__2PRFIN20110909_201117_000000453106_00244_49827_3110.N1	09-SEP-2011 20:11:17	Dark	44.500	9	Alp Eri	0.45300	24000.	89	49827	No
62	GOM_NL__2PRFIN20110909_201706_000000463106_00244_49827_3111.N1	09-SEP-2011 20:17:06	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	49827	No
63	GOM_NL__2PRFIN20110909_203621_000000423106_00244_49827_3112.N1	09-SEP-2011 20:36:21	Bright	42.000	90	54Alp Peg	2.4870	11000.	84	49827	No
64	GOM_NL__2PRFIN20110909_204034_000000403106_00244_49827_3113.N1	09-SEP-2011 20:40:34	Bright	39.500	164	44Eta Peg	2.9480	5400.0	79	49827	No
65	GOM_NL__2PRFIN20110909_205045_000000433106_00244_49827_3114.N1	09-SEP-2011 20:50:45	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	49827	No
66	GOM_NL__2PRFIN20110909_205240_000000443106_00244_49827_3115.N1	09-SEP-2011 20:52:40	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	49827	No
67	GOM_NL__2PRFIN20110909_211408_000000423106_00244_49827_3116.N1	09-SEP-2011 21:14:08	Bright	41.500	24	66Alp Gem	1.5800	10200.	83	49827	No
68	GOM_NL__2PRFIN20110909_211705_000000563106_00244_49827_3117.N1	09-SEP-2011 21:17:05	Twilight	56.000	170	27Eps Gem	3.0000	9700.0	112	49827	No
69	GOM_NL__2PRFIN20110909_213052_000000563106_00244_49827_3118.N1	09-SEP-2011 21:30:52	Dark	56.000	1	9Alp CMa	-1.4400	11000.	112	49827	No
70	GOM_NL__2PRFIN20110909_213529_000000463106_00244_49827_3119.N1	09-SEP-2011 21:35:29	Dark	45.500	177	1Zet CMa	3.0220	26000.	91	49827	No
71	GOM_NL__2PRFIN20110909_213846_000000503106_00244_49827_3120.N1	09-SEP-2011 21:38:46	Dark	49.500	108	Alp Col	2.6520	15200.	99	49827	No
72	GOM_NL__2PRFIN20110909_215131_000000433106_00245_49828_3126.N1	09-SEP-2011 21:51:31	Dark	42.500	9	Alp Eri	0.45300	24000.	85	49828	No
73	GOM_NL__2PRFIN20110909_215720_000000483106_00245_49828_3127.N1	09-SEP-2011 21:57:20	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	49828	No
74	GOM_NL__2PRFIN20110909_221635_000000423106_00245_49828_3128.N1	09-SEP-2011 22:16:35	Bright	41.500	90	54Alp Peg	2.4870	11000.	83	49828	No
75	GOM_NL__2PRFIN20110909_222048_000000393106_00245_49828_3129.N1	09-SEP-2011 22:20:48	Bright	38.500	164	44Eta Peg	2.9480	5400.0	77	49828	No
76	GOM_NL__2PRFIN20110909_223058_000000403106_00245_49828_3130.N1	09-SEP-2011 22:30:58	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	49828	No
77	GOM_NL__2PRFIN20110909_223253_000000453106_00245_49828_3131.N1	09-SEP-2011 22:32:53	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	49828	No
78	GOM_NL__2PRFIN20110909_225422_000000573106_00245_49828_3132.N1	09-SEP-2011 22:54:22	Bright	57.000	24	66Alp Gem	1.5800	10200.	114	49828	No
79	GOM_NL__2PRFIN20110909_231107_000000593106_00245_49828_3133.N1	09-SEP-2011 23:11:07	Dark	58.500	1	9Alp CMa	-1.4400	11000.	117	49828	No
80	GOM_NL__2PRFIN20110909_231544_000000453106_00245_49828_3134.N1	09-SEP-2011 23:15:44	Dark	45.000	177	1Zet CMa	3.0220	26000.	90	49828	No
81	GOM_NL__2PRFIN20110909_231901_000000523106_00245_49828_3135.N1	09-SEP-2011 23:19:01	Dark	51.500	108	Alp Col	2.6520	15200.	103	49828	No
82	GOM_NL__2PRFIN20110909_233735_000000473106_00246_49829_3146.N1	09-SEP-2011 23:37:35	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	49829	No
83	GOM_NL__2PRFIN20110909_235649_000000413106_00246_49829_3147.N1	09-SEP-2011 23:56:49	Bright	41.000	90	54Alp Peg	2.4870	11000.	82	49829	No

3. Quality information per product

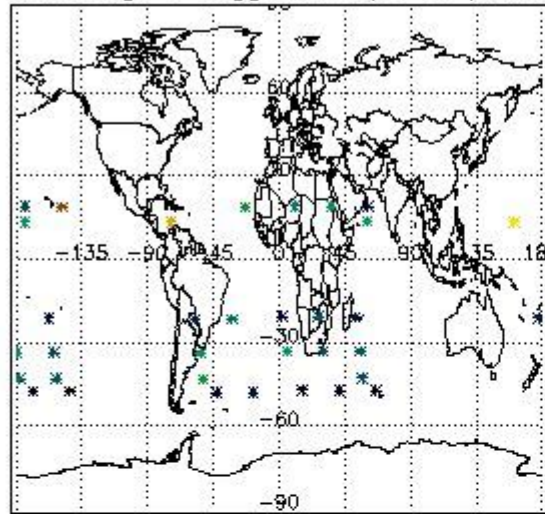
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

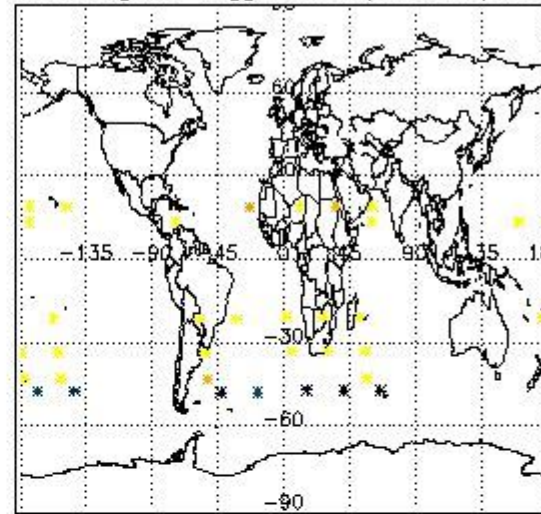


3.2 Plot quality information per product (world map)

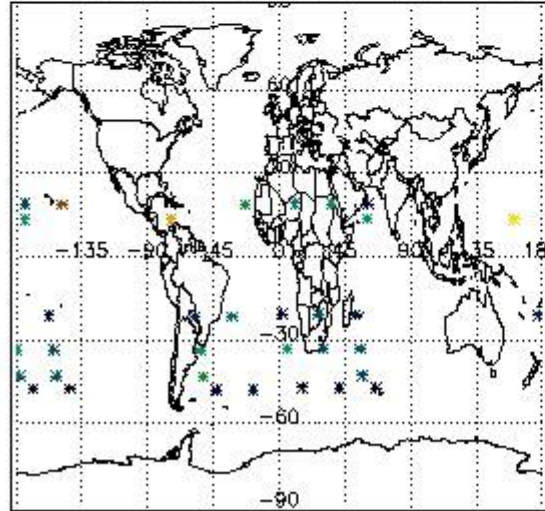
Percentage of flagged data per O3 profile



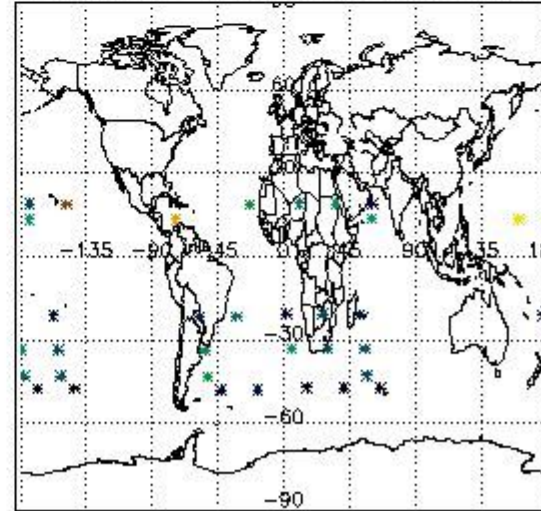
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

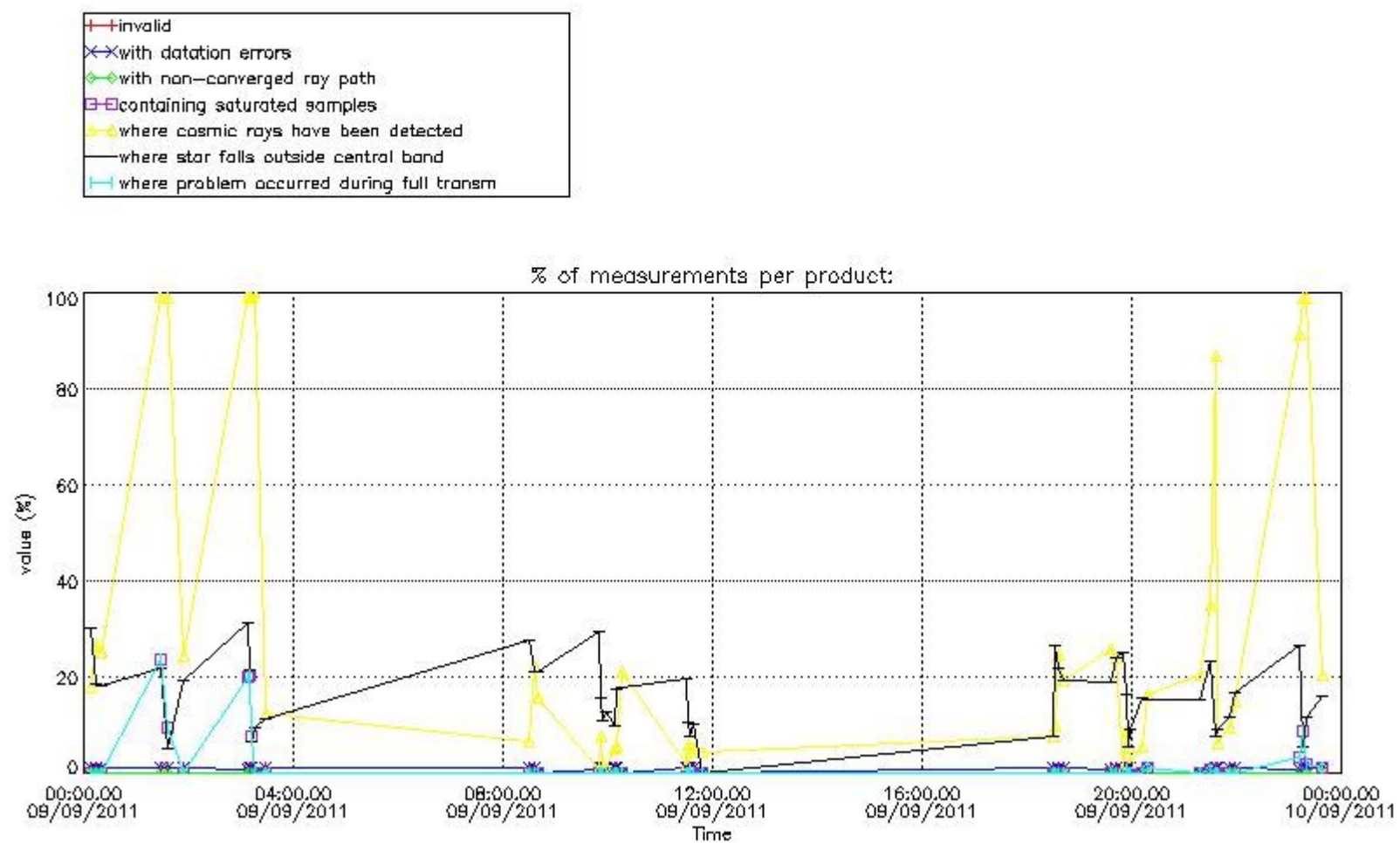


4. Level 1 quality information per product

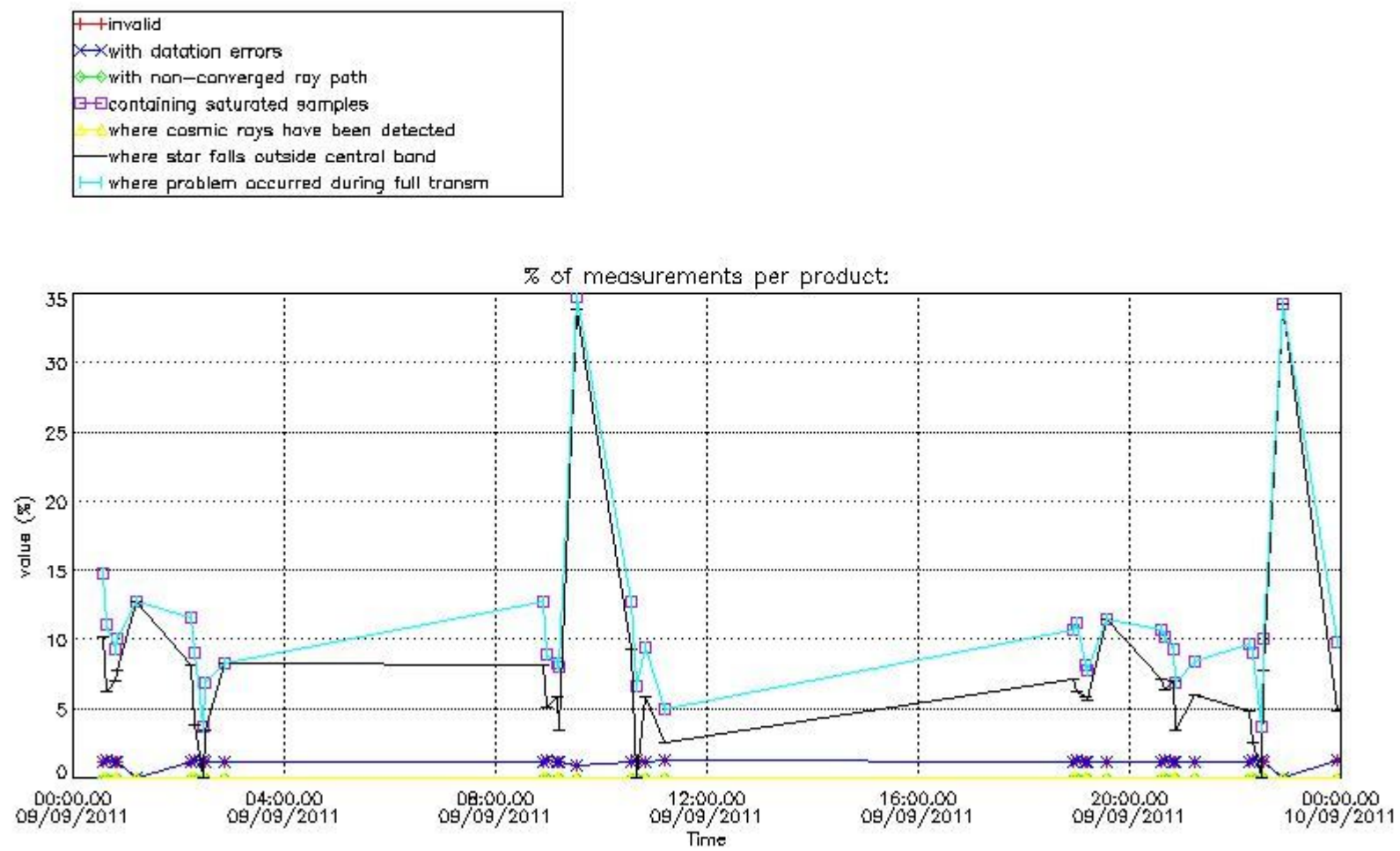
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



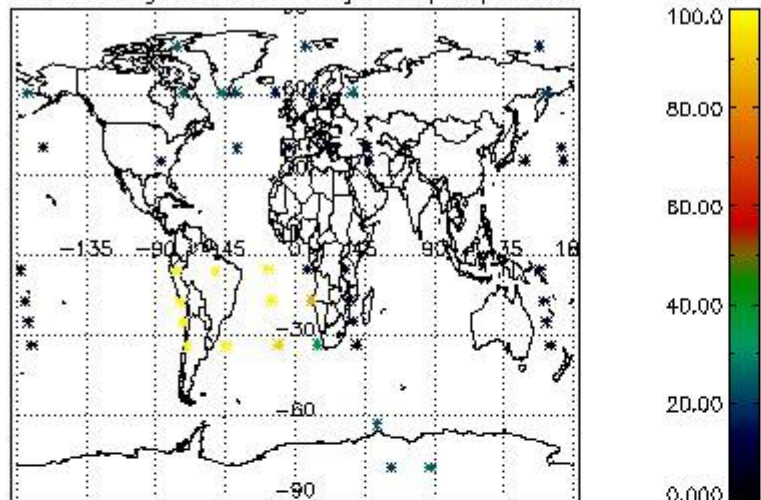
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



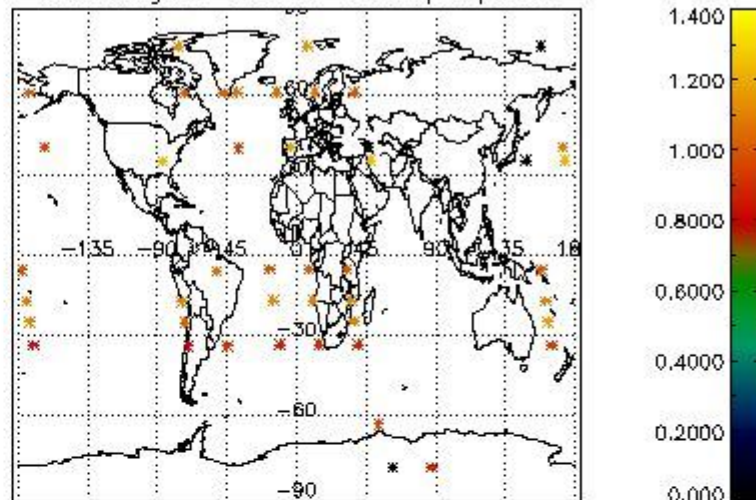
4.2 Plot quality information per product coming from level 1b processing (world map)

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

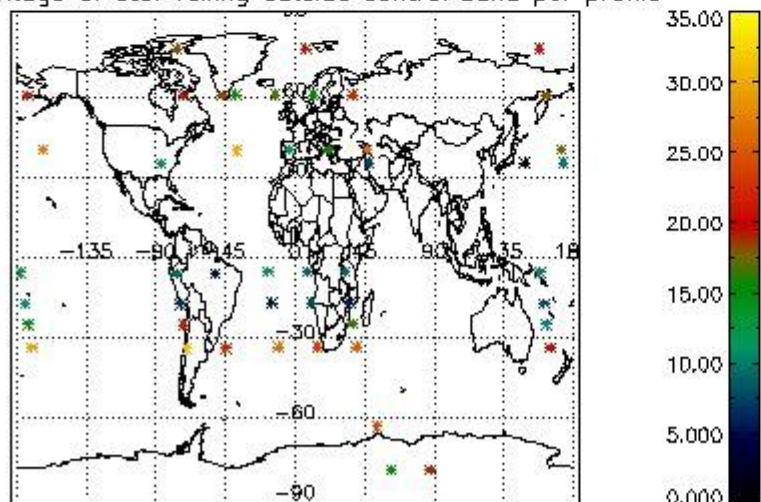
Percentage of cosmic ray hits per profile



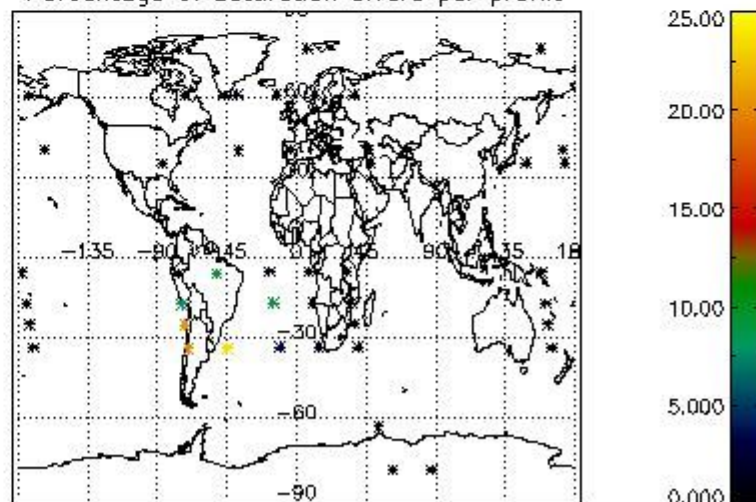
Percentage of datation errors per profile



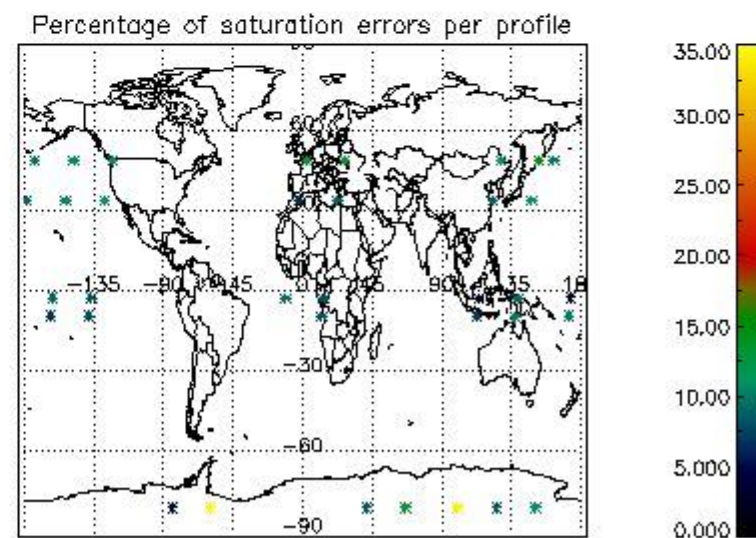
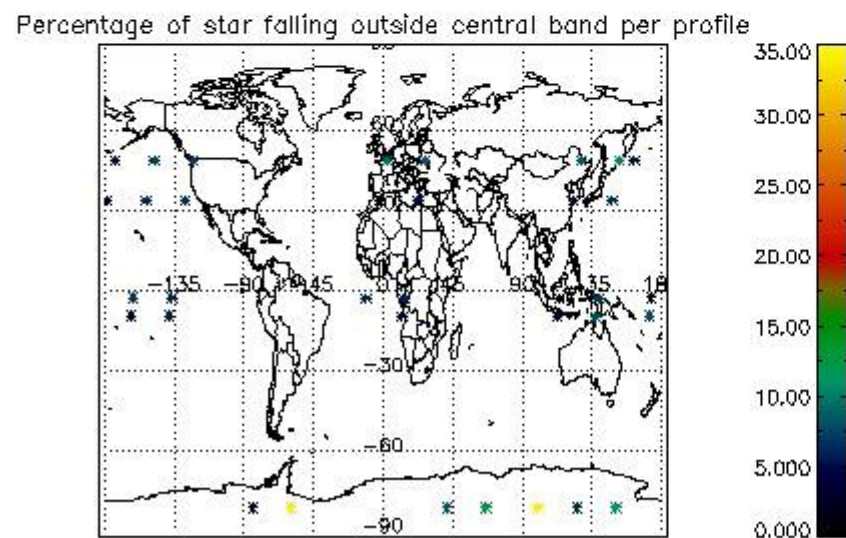
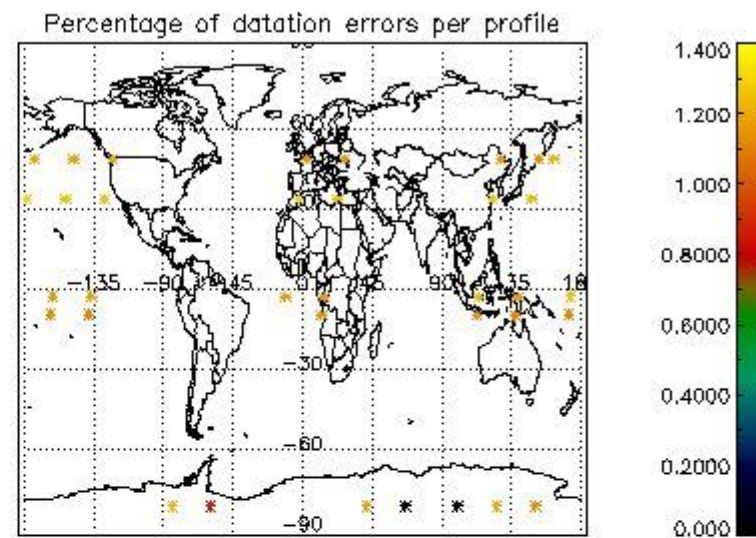
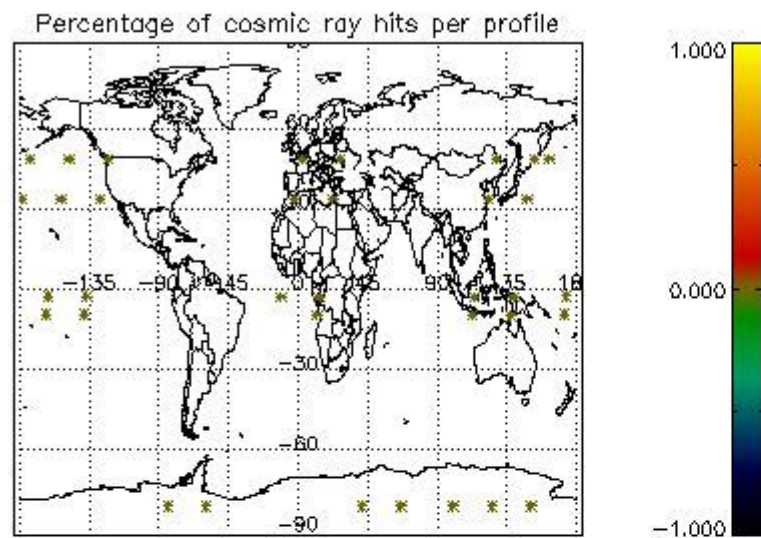
Percentage of star falling outside central band per profile



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

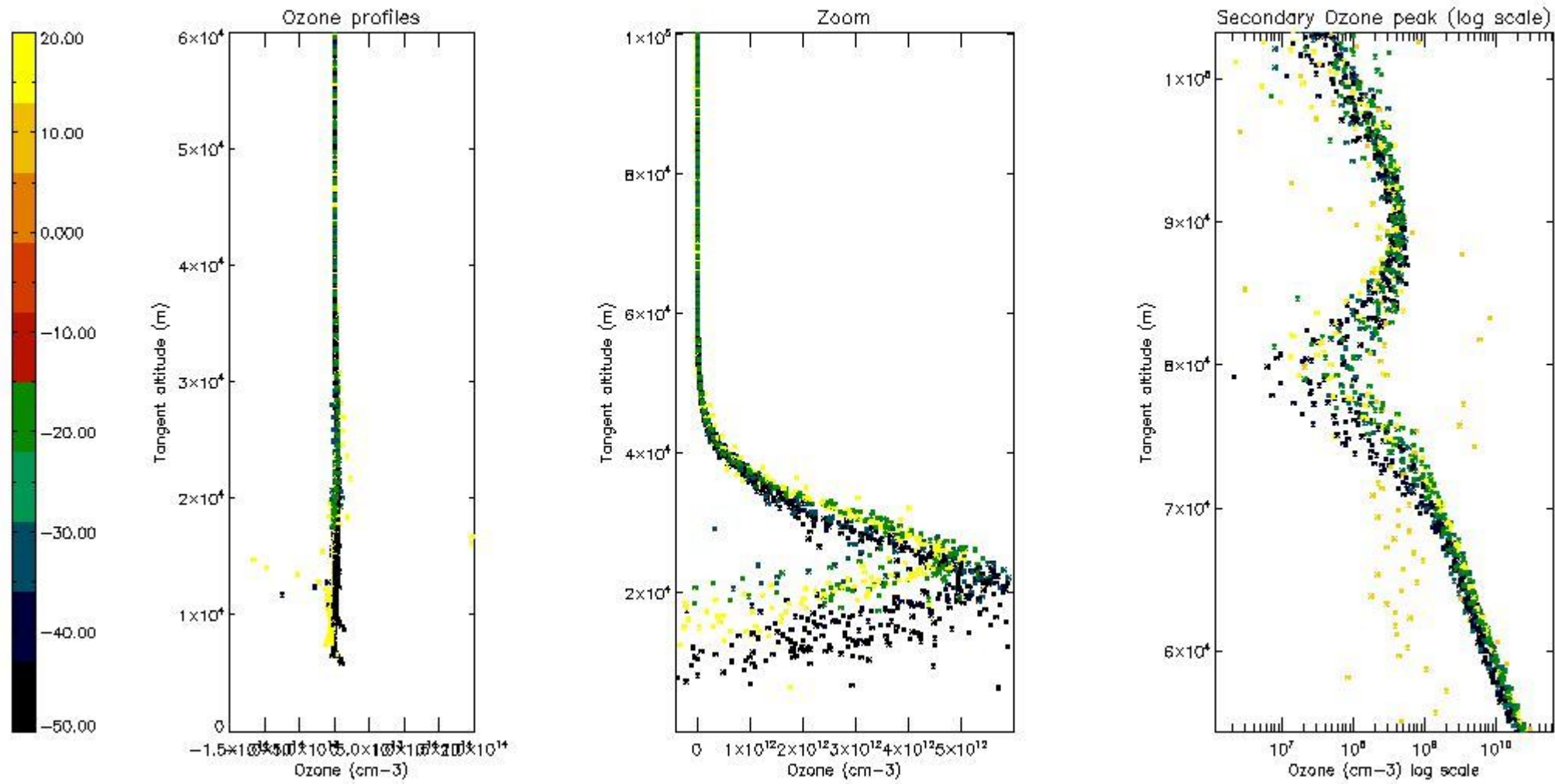
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	44
STD < 20	26

STD < 10	23
STD < 5	16

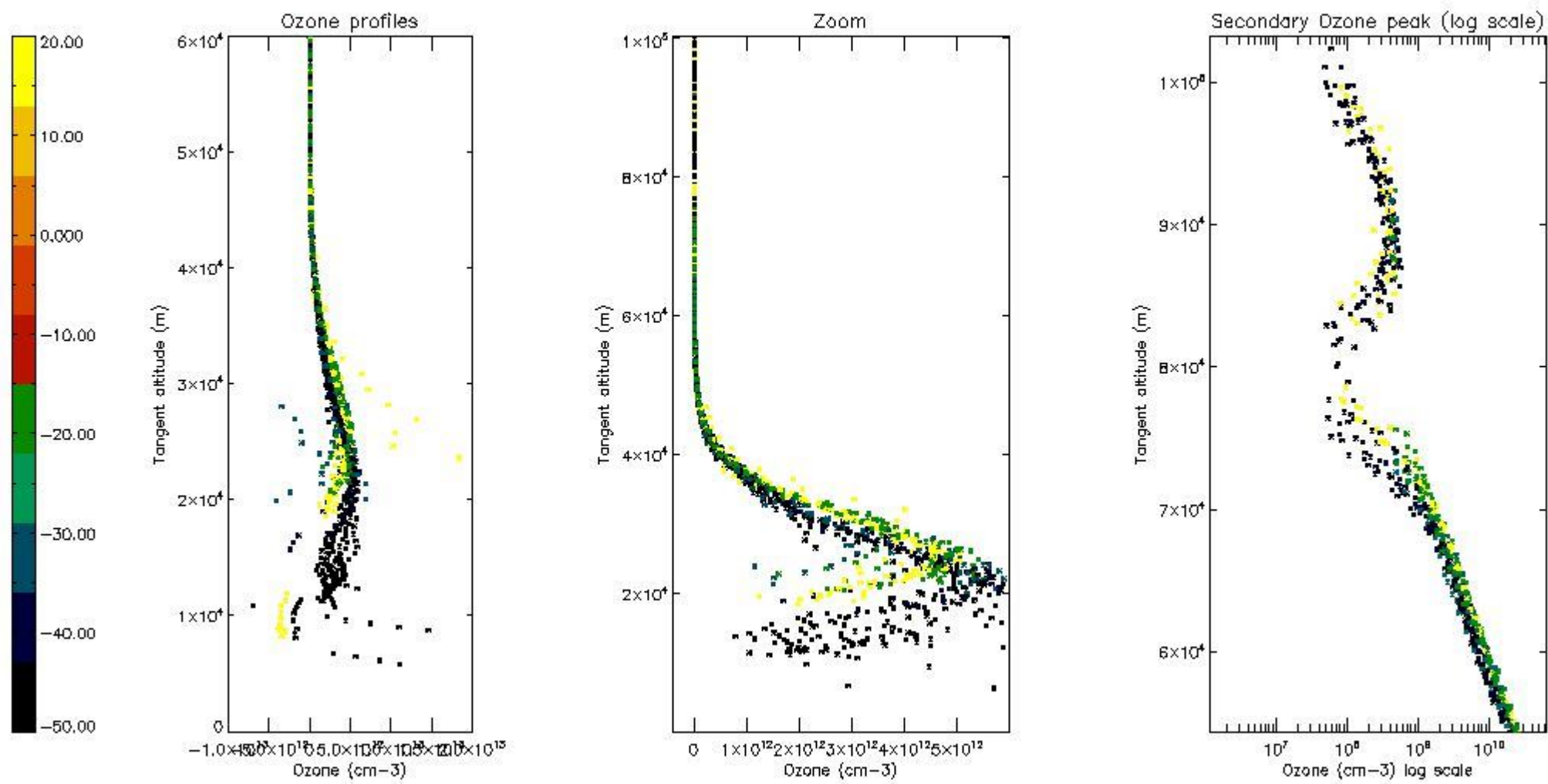
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



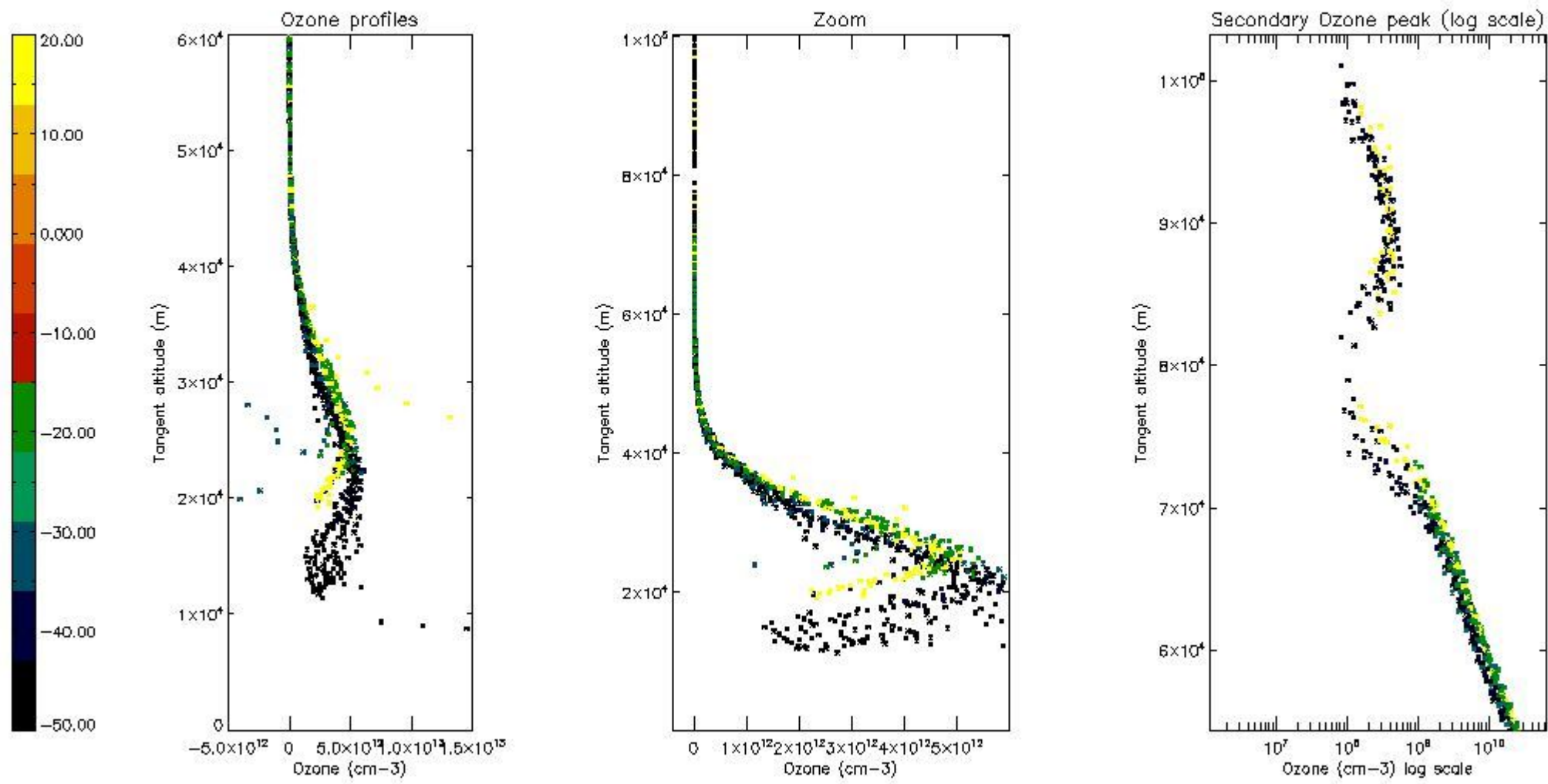
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



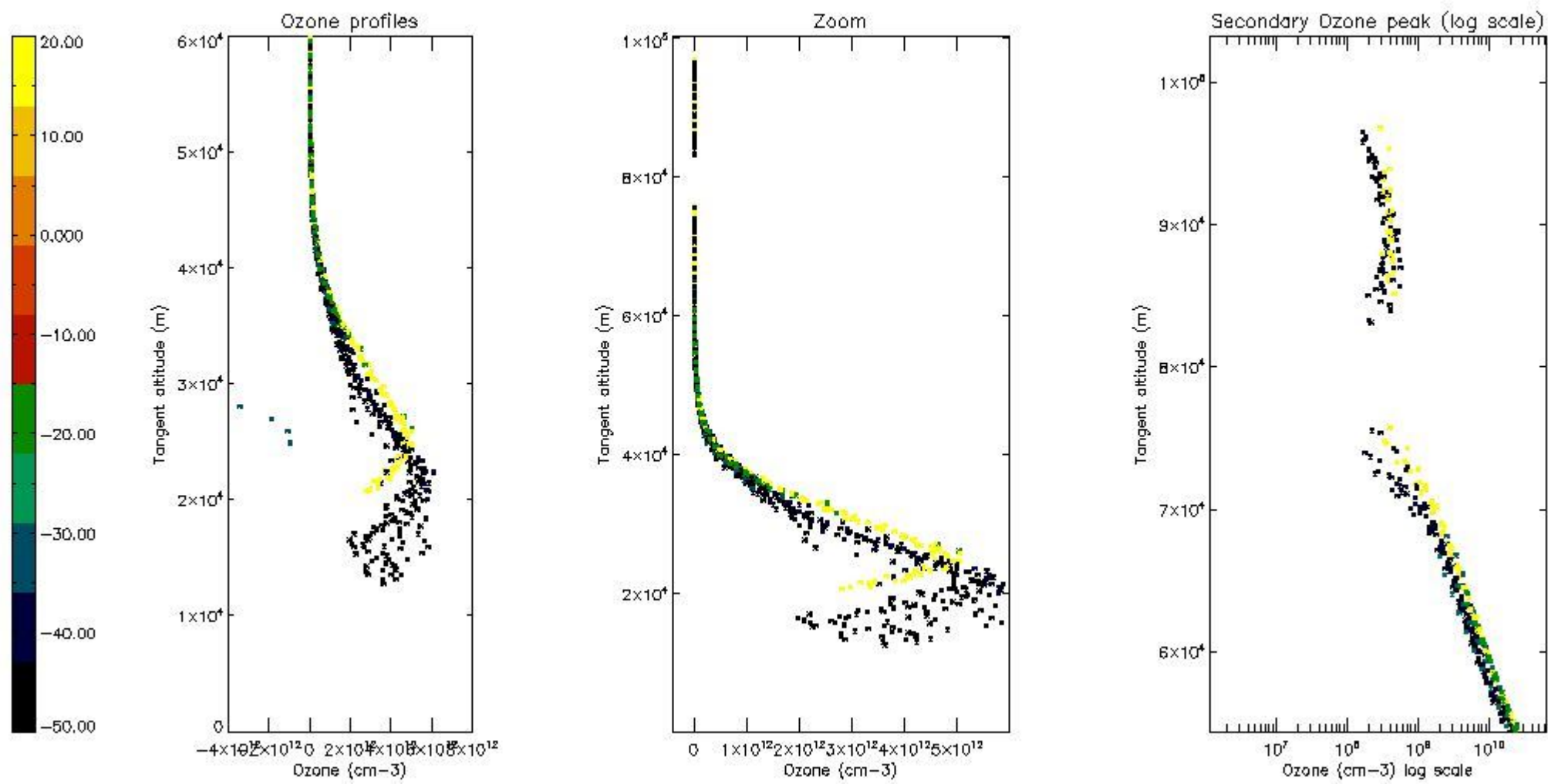
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



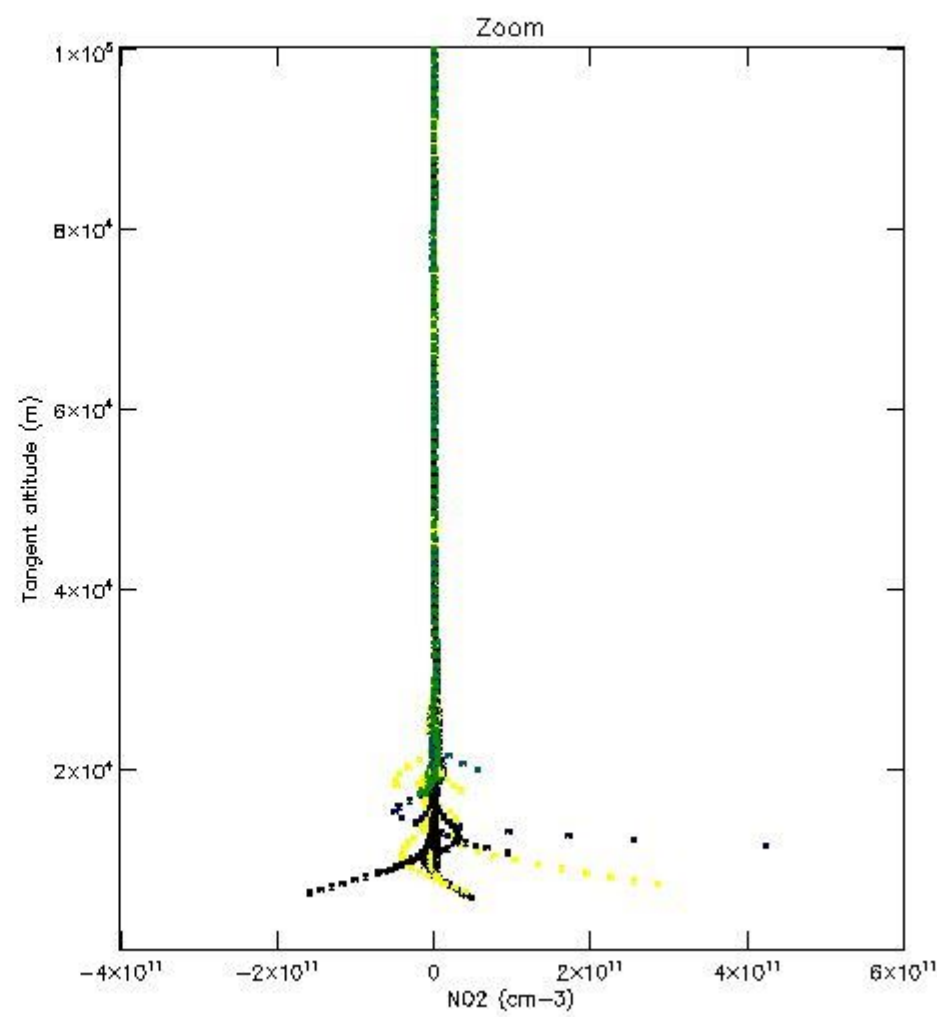
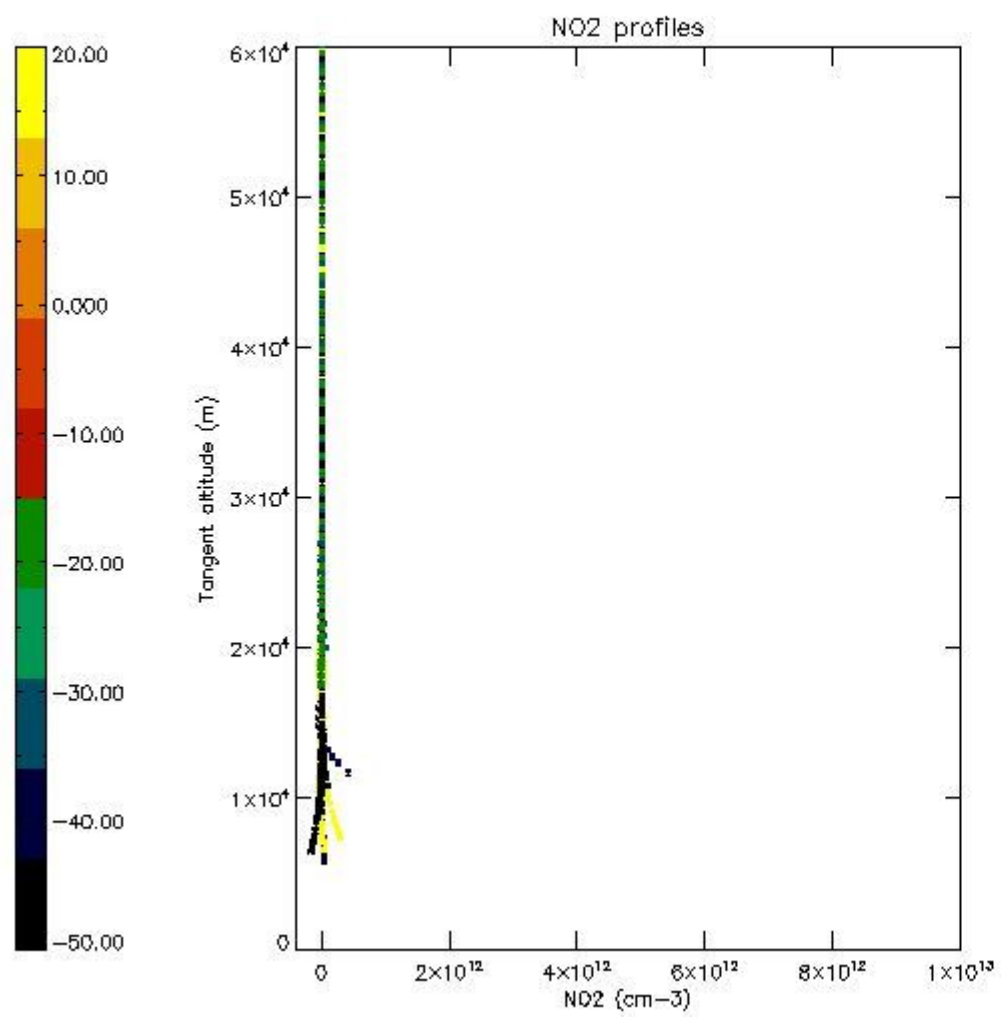
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



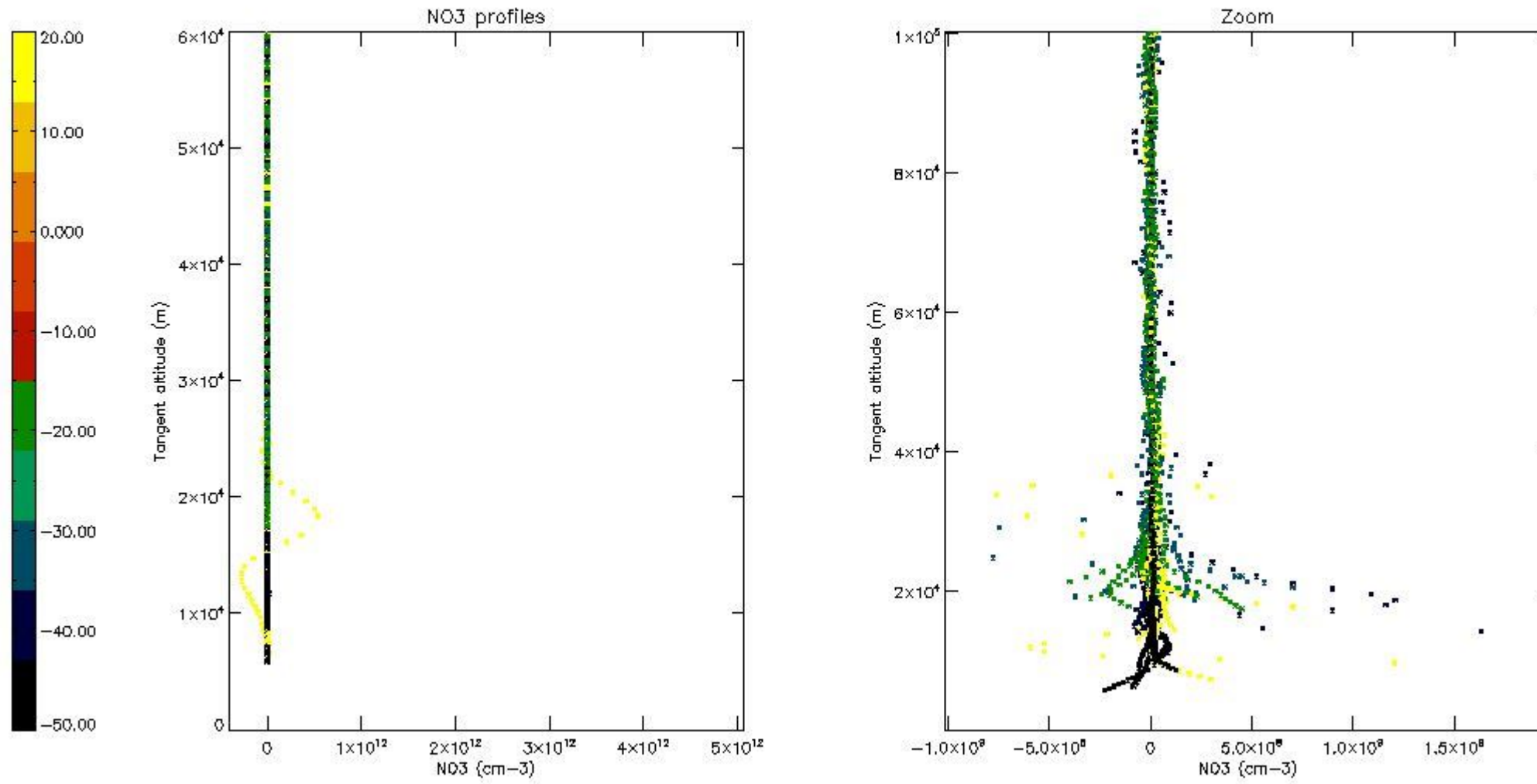
5.6 Plot NO₂ profiles for all STD (dark without errors)

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-SEP-2011 00:08:23
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-SEP-2011 00:08:23
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-SEP-2011 00:08:23

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	24APR2013 17:39:14
Data source version	GOMOS/6.01
Start time of products	09-09-2011 (09SEP2011 00:00:00)
Stop time of products	10-09-2011 (10SEP2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	83
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

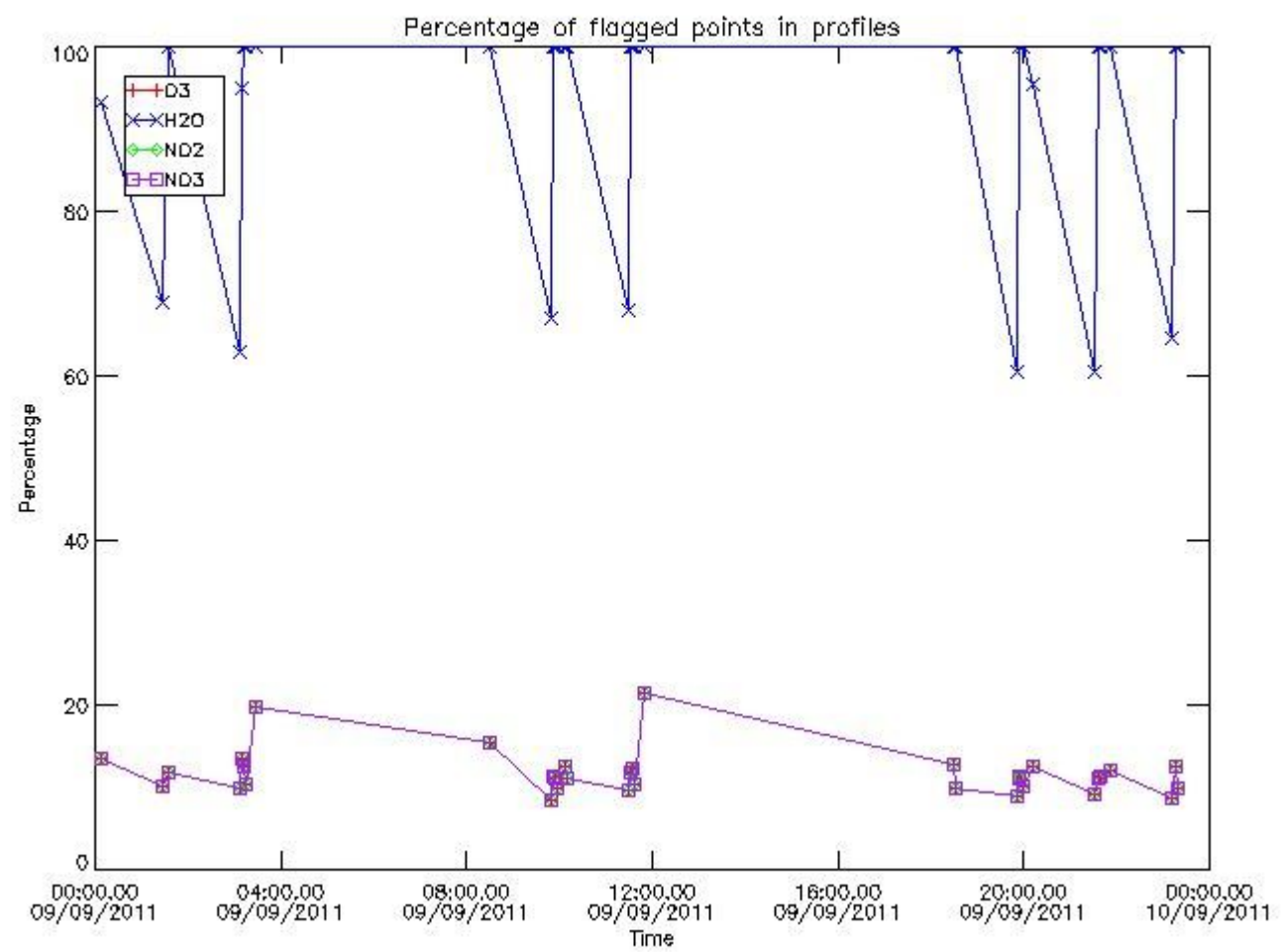
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110909_000823_000000533106_00232_49815_2741.N1	09-SEP-2011 00:08:23	Dark	53.000	9	Alp Eri	0.45300	24000.	106	49815	No
2	GOM_NL__2PRFIN20110909_001412_000000493106_00232_49815_2742.N1	09-SEP-2011 00:14:12	Straylight	49.000	84	Alp Phe	2.3970	4500.0	98	49815	No
3	GOM_NL__2PRFIN20110909_001943_000000443106_00232_49815_2743.N1	09-SEP-2011 00:19:43	Straylight	44.000	18	24Alp PsA	1.1660	9700.0	88	49815	No
4	GOM_NL__2PRFIN20110909_003337_000000443106_00232_49815_2744.N1	09-SEP-2011 00:33:37	Bright	44.000	90	54Alp Peg	2.4870	11000.	88	49815	No
5	GOM_NL__2PRFIN20110909_003750_000000413106_00232_49815_2745.N1	09-SEP-2011 00:37:50	Bright	40.500	164	44Eta Peg	2.9480	5400.0	81	49815	No
6	GOM_NL__2PRFIN20110909_004803_000000433106_00232_49815_2746.N1	09-SEP-2011 00:48:03	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	49815	No
7	GOM_NL__2PRFIN20110909_004959_000000453106_00232_49815_2747.N1	09-SEP-2011 00:49:59	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	49815	No
8	GOM_NL__2PRFIN20110909_011119_000000433106_00232_49815_2748.N1	09-SEP-2011 01:11:19	Bright	43.000	24	66Alp Gem	1.5800	10200.	86	49815	No
9	GOM_NL__2PRFIN20110909_012754_000000553106_00232_49815_2749.N1	09-SEP-2011 01:27:54	Dark	55.000	1	9Alp CMa	-1.4400	11000.	110	49815	No
10	GOM_NL__2PRFIN20110909_013545_000000483106_00232_49815_2750.N1	09-SEP-2011 01:35:45	Dark	47.500	108	Alp Col	2.6520	15200.	95	49815	No
11	GOM_NL__2PRFIN20110909_015427_000000493106_00233_49816_2749.N1	09-SEP-2011 01:54:27	Straylight	49.000	84	Alp Phe	2.3970	4500.0	98	49816	No
12	GOM_NL__2PRFIN20110909_021350_000000433106_00233_49816_2750.N1	09-SEP-2011 02:13:50	Bright	43.000	90	54Alp Peg	2.4870	11000.	86	49816	No
13	GOM_NL__2PRFIN20110909_021803_000000393106_00233_49816_2751.N1	09-SEP-2011 02:18:03	Bright	39.000	164	44Eta Peg	2.9480	5400.0	78	49816	No
14	GOM_NL__2PRFIN20110909_022816_000000403106_00233_49816_2752.N1	09-SEP-2011 02:28:16	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	49816	No
15	GOM_NL__2PRFIN20110909_023012_000000443106_00233_49816_2753.N1	09-SEP-2011 02:30:12	Bright	43.500	76	27Gam Cas	2.3000	30000.	87	49816	No
16	GOM_NL__2PRFIN20110909_025133_000000423106_00233_49816_2754.N1	09-SEP-2011 02:51:33	Bright	42.000	24	66Alp Gem	1.5800	10200.	84	49816	No
17	GOM_NL__2PRFIN20110909_030809_000000633106_00233_49816_2755.N1	09-SEP-2011 03:08:09	Dark	62.500	1	9Alp CMa	-1.4400	11000.	125	49816	No
18	GOM_NL__2PRFIN20110909_031038_000000493106_00233_49816_2756.N1	09-SEP-2011 03:10:38	Dark	49.000	23	21Eps CMa	1.5020	26000.	98	49816	No
19	GOM_NL__2PRFIN20110909_031245_000000453106_00233_49816_2757.N1	09-SEP-2011 03:12:45	Dark	45.000	177	1Zet CMa	3.0220	26000.	90	49816	No
20	GOM_NL__2PRFIN20110909_031600_000000493106_00233_49816_2758.N1	09-SEP-2011 03:16:00	Dark	48.500	108	Alp Col	2.6520	15200.	97	49816	No
21	GOM_NL__2PRFIN20110909_032729_000000413106_00234_49817_2794.N1	09-SEP-2011 03:27:29	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	49817	No
22	GOM_NL__2PRFIN20110909_082935_000000533106_00237_49820_2844.N1	09-SEP-2011 08:29:35	Dark	52.500	9	Alp Eri	0.45300	24000.	105	49820	No
23	GOM_NL__2PRFIN20110909_083525_000000503106_00237_49820_2845.N1	09-SEP-2011 08:35:25	Straylight	49.500	84	Alp Phe	2.3970	4500.0	99	49820	No
24	GOM_NL__2PRFIN20110909_084055_000000453106_00237_49820_2846.N1	09-SEP-2011 08:40:55	Straylight	45.000	18	24Alp PsA	1.1660	9700.0	90	49820	No
25	GOM_NL__2PRFIN20110909_085445_000000433106_00237_49820_2847.N1	09-SEP-2011 08:54:45	Bright	43.000	90	54Alp Peg	2.4870	11000.	86	49820	No
26	GOM_NL__2PRFIN20110909_085858_000000403106_00237_49820_2848.N1	09-SEP-2011 08:58:58	Bright	39.500	164	44Eta Peg	2.9480	5400.0	79	49820	No
27	GOM_NL__2PRFIN20110909_090910_000000433106_00237_49820_2849.N1	09-SEP-2011 09:09:10	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	49820	No
28	GOM_NL__2PRFIN20110909_091106_000000443106_00237_49820_2850.N1	09-SEP-2011 09:11:06	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	49820	No
29	GOM_NL__2PRFIN20110909_093230_000000593106_00237_49820_2851.N1	09-SEP-2011 09:32:30	Bright	59.000	24	66Alp Gem	1.5800	10200.	118	49820	No
30	GOM_NL__2PRFIN20110909_094908_000000613106_00237_49820_2852.N1	09-SEP-2011 09:49:08	Dark	61.000	1	9Alp CMa	-1.4400	11000.	122	49820	No
31	GOM_NL__2PRFIN20110909_095136_000000453106_00237_49820_2853.N1	09-SEP-2011 09:51:36	Dark	45.000	23	21Eps CMa	1.5020	26000.	90	49820	No
32	GOM_NL__2PRFIN20110909_095344_000000463106_00237_49820_2854.N1	09-SEP-2011 09:53:44	Dark	46.000	177	1Zet CMa	3.0220	26000.	92	49820	No
33	GOM_NL__2PRFIN20110909_095701_000000513106_00237_49820_2855.N1	09-SEP-2011 09:57:01	Dark	51.000	108	Alp Col	2.6520	15200.	102	49820	No
34	GOM_NL__2PRFIN20110909_100827_000000413106_00238_49821_2875.N1	09-SEP-2011 10:08:27	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	49821	No
35	GOM_NL__2PRFIN20110909_100950_000000463106_00238_49821_2876.N1	09-SEP-2011 10:09:50	Dark	46.000	9	Alp Eri	0.45300	24000.	92	49821	No
36	GOM_NL__2PRFIN20110909_101539_000000483106_00238_49821_2877.N1	09-SEP-2011 10:15:39	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	49821	No
37	GOM_NL__2PRFIN20110909_103459_000000433106_00238_49821_2878.N1	09-SEP-2011 10:34:59	Bright	43.000	90	54Alp Peg	2.4870	11000.	86	49821	No
38	GOM_NL__2PRFIN20110909_103912_000000383106_00238_49821_2879.N1	09-SEP-2011 10:39:12	Bright	38.000	164	44Eta Peg	2.9480	5400.0	76	49821	No
39	GOM_NL__2PRFIN20110909_104924_000000433106_00238_49821_2880.N1	09-SEP-2011 10:49:24	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	49821	No
40	GOM_NL__2PRFIN20110909_111244_000000403106_00238_49821_2881.N1	09-SEP-2011 11:12:44	Bright	40.000	24	66Alp Gem	1.5800	10200.	80	49821	No
41	GOM_NL__2PRFIN20110909_112923_000000543106_00238_49821_2882.N1	09-SEP-2011 11:29:23	Dark	53.500	1	9Alp CMa	-1.4400	11000.	107	49821	No
42	GOM_NL__2PRFIN20110909_113151_000000433106_00238_49821_2883.N1	09-SEP-2011 11:31:51	Dark	43.000	23	21Eps CMa	1.5020	26000.	86	49821	No

43	GOM_NL__2PRFIN20110909_113359_000000463106_00238_49821_2884.N1	09-SEP-2011 11:33:59	Dark	45.500	177	1Zet CMa	3.0220	26000.	91	49821	No
44	GOM_NL__2PRFIN20110909_113715_000000503106_00238_49821_2885.N1	09-SEP-2011 11:37:15	Dark	49.500	108	Alp Col	2.6520	15200.	99	49821	No
45	GOM_NL__2PRFIN20110909_114842_000000243106_00239_49822_2941.N1	09-SEP-2011 11:48:42	Dark	23.500	143	Alp Hyi	2.8570	7200.0	47	49822	No
46	GOM_NL__2PRFIN20110909_182940_000000403106_00243_49826_3071.N1	09-SEP-2011 18:29:40	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	49826	No
47	GOM_NL__2PRFIN20110909_183102_000000513106_00243_49826_3072.N1	09-SEP-2011 18:31:02	Dark	51.000	9	Alp Eri	0.45300	24000.	102	49826	No
48	GOM_NL__2PRFIN20110909_183651_000000513106_00243_49826_3073.N1	09-SEP-2011 18:36:51	Straylight	50.500	84	Alp Phe	2.3970	4500.0	101	49826	No
49	GOM_NL__2PRFIN20110909_184220_000000443106_00243_49826_3074.N1	09-SEP-2011 18:42:20	Straylight	44.000	18	24Alp PsA	1.1660	9700.0	88	49826	No
50	GOM_NL__2PRFIN20110909_185608_000000423106_00243_49826_3075.N1	09-SEP-2011 18:56:08	Bright	42.000	90	54Alp Peg	2.4870	11000.	84	49826	No
51	GOM_NL__2PRFIN20110909_190021_000000403106_00243_49826_3076.N1	09-SEP-2011 19:00:21	Bright	40.000	164	44Eta Peg	2.9480	5400.0	80	49826	No
52	GOM_NL__2PRFIN20110909_191031_000000433106_00243_49826_3077.N1	09-SEP-2011 19:10:31	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	49826	No
53	GOM_NL__2PRFIN20110909_191226_000000453106_00243_49826_3078.N1	09-SEP-2011 19:12:26	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	49826	No
54	GOM_NL__2PRFIN20110909_193354_000000443106_00243_49826_3079.N1	09-SEP-2011 19:33:54	Bright	43.500	24	66Alp Gem	1.5800	10200.	87	49826	No
55	GOM_NL__2PRFIN20110909_193651_000000583106_00243_49826_3080.N1	09-SEP-2011 19:36:51	Twilight	58.000	170	27Eps Gem	3.0000	9700.0	116	49826	No
56	GOM_NL__2PRFIN20110909_194208_000000523106_00243_49826_3081.N1	09-SEP-2011 19:42:08	Twilight	52.000	8	10Alp CMi	0.40000	6500.0	104	49826	No
57	GOM_NL__2PRFIN20110909_195037_000000583106_00243_49826_3082.N1	09-SEP-2011 19:50:37	Dark	57.500	1	9Alp CMa	-1.4400	11000.	115	49826	No
58	GOM_NL__2PRFIN20110909_195305_000000463106_00243_49826_3083.N1	09-SEP-2011 19:53:05	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	49826	No
59	GOM_NL__2PRFIN20110909_195514_000000453106_00243_49826_3084.N1	09-SEP-2011 19:55:14	Dark	45.000	177	1Zet CMa	3.0220	26000.	90	49826	No
60	GOM_NL__2PRFIN20110909_195831_000000503106_00243_49826_3085.N1	09-SEP-2011 19:58:31	Dark	50.000	108	Alp Col	2.6520	15200.	100	49826	No
61	GOM_NL__2PRFIN20110909_201117_000000453106_00244_49827_3110.N1	09-SEP-2011 20:11:17	Dark	44.500	9	Alp Eri	0.45300	24000.	89	49827	No
62	GOM_NL__2PRFIN20110909_201706_000000463106_00244_49827_3111.N1	09-SEP-2011 20:17:06	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	49827	No
63	GOM_NL__2PRFIN20110909_203621_000000423106_00244_49827_3112.N1	09-SEP-2011 20:36:21	Bright	42.000	90	54Alp Peg	2.4870	11000.	84	49827	No
64	GOM_NL__2PRFIN20110909_204034_000000403106_00244_49827_3113.N1	09-SEP-2011 20:40:34	Bright	39.500	164	44Eta Peg	2.9480	5400.0	79	49827	No
65	GOM_NL__2PRFIN20110909_205045_000000433106_00244_49827_3114.N1	09-SEP-2011 20:50:45	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	49827	No
66	GOM_NL__2PRFIN20110909_205240_000000443106_00244_49827_3115.N1	09-SEP-2011 20:52:40	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	49827	No
67	GOM_NL__2PRFIN20110909_211408_000000423106_00244_49827_3116.N1	09-SEP-2011 21:14:08	Bright	41.500	24	66Alp Gem	1.5800	10200.	83	49827	No
68	GOM_NL__2PRFIN20110909_211705_000000563106_00244_49827_3117.N1	09-SEP-2011 21:17:05	Twilight	56.000	170	27Eps Gem	3.0000	9700.0	112	49827	No
69	GOM_NL__2PRFIN20110909_213052_000000563106_00244_49827_3118.N1	09-SEP-2011 21:30:52	Dark	56.000	1	9Alp CMa	-1.4400	11000.	112	49827	No
70	GOM_NL__2PRFIN20110909_213529_000000463106_00244_49827_3119.N1	09-SEP-2011 21:35:29	Dark	45.500	177	1Zet CMa	3.0220	26000.	91	49827	No
71	GOM_NL__2PRFIN20110909_213846_000000503106_00244_49827_3120.N1	09-SEP-2011 21:38:46	Dark	49.500	108	Alp Col	2.6520	15200.	99	49827	No
72	GOM_NL__2PRFIN20110909_215131_000000433106_00245_49828_3126.N1	09-SEP-2011 21:51:31	Dark	42.500	9	Alp Eri	0.45300	24000.	85	49828	No
73	GOM_NL__2PRFIN20110909_215720_000000483106_00245_49828_3127.N1	09-SEP-2011 21:57:20	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	49828	No
74	GOM_NL__2PRFIN20110909_221635_000000423106_00245_49828_3128.N1	09-SEP-2011 22:16:35	Bright	41.500	90	54Alp Peg	2.4870	11000.	83	49828	No
75	GOM_NL__2PRFIN20110909_222048_000000393106_00245_49828_3129.N1	09-SEP-2011 22:20:48	Bright	38.500	164	44Eta Peg	2.9480	5400.0	77	49828	No
76	GOM_NL__2PRFIN20110909_223058_000000403106_00245_49828_3130.N1	09-SEP-2011 22:30:58	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	49828	No
77	GOM_NL__2PRFIN20110909_223253_000000453106_00245_49828_3131.N1	09-SEP-2011 22:32:53	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	49828	No
78	GOM_NL__2PRFIN20110909_225422_000000573106_00245_49828_3132.N1	09-SEP-2011 22:54:22	Bright	57.000	24	66Alp Gem	1.5800	10200.	114	49828	No
79	GOM_NL__2PRFIN20110909_231107_000000593106_00245_49828_3133.N1	09-SEP-2011 23:11:07	Dark	58.500	1	9Alp CMa	-1.4400	11000.	117	49828	No
80	GOM_NL__2PRFIN20110909_231544_000000453106_00245_49828_3134.N1	09-SEP-2011 23:15:44	Dark	45.000	177	1Zet CMa	3.0220	26000.	90	49828	No
81	GOM_NL__2PRFIN20110909_231901_000000523106_00245_49828_3135.N1	09-SEP-2011 23:19:01	Dark	51.500	108	Alp Col	2.6520	15200.	103	49828	No
82	GOM_NL__2PRFIN20110909_233735_000000473106_00246_49829_3146.N1	09-SEP-2011 23:37:35	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	49829	No
83	GOM_NL__2PRFIN20110909_235649_000000413106_00246_49829_3147.N1	09-SEP-2011 23:56:49	Bright	41.000	90	54Alp Peg	2.4870	11000.	82	49829	No

3. Quality information per product

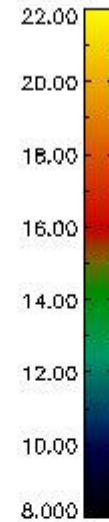
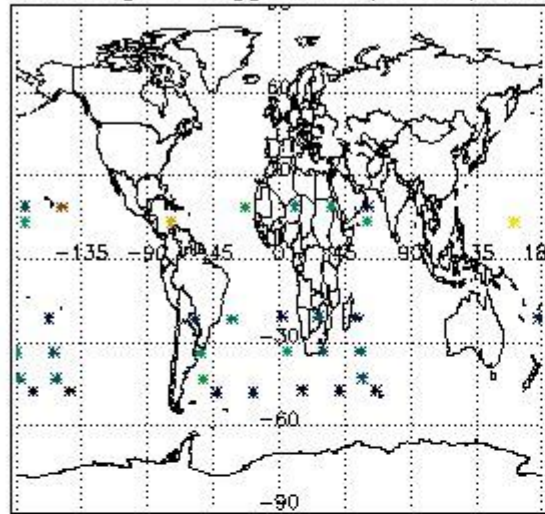
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

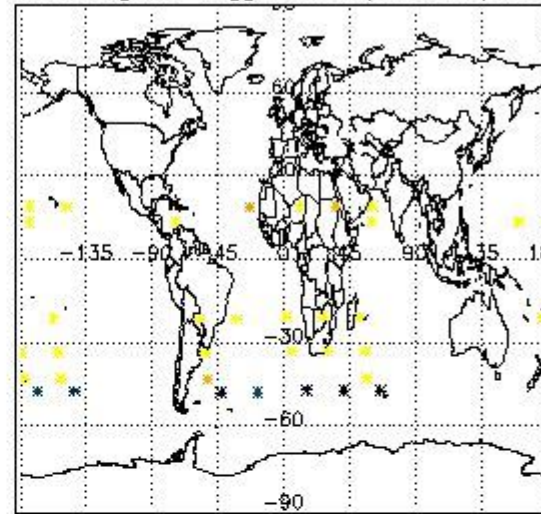


3.2 Plot quality information per product (world map)

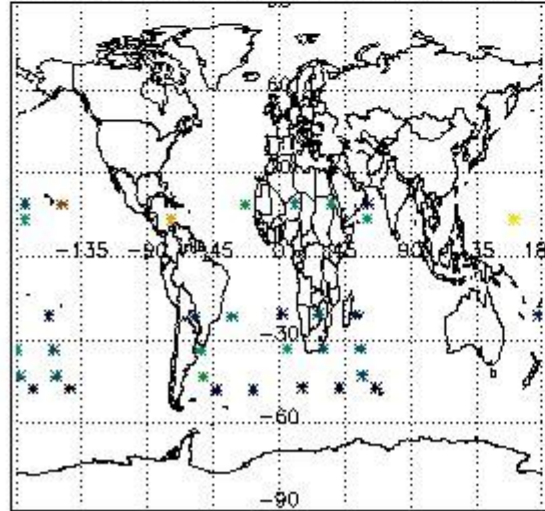
Percentage of flagged data per O3 profile



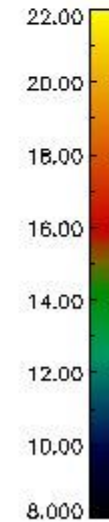
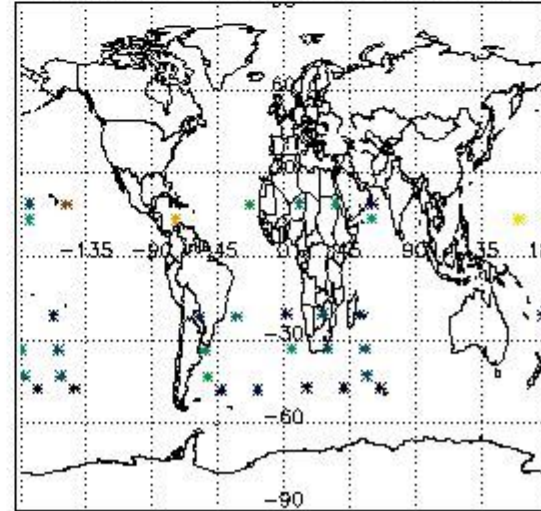
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

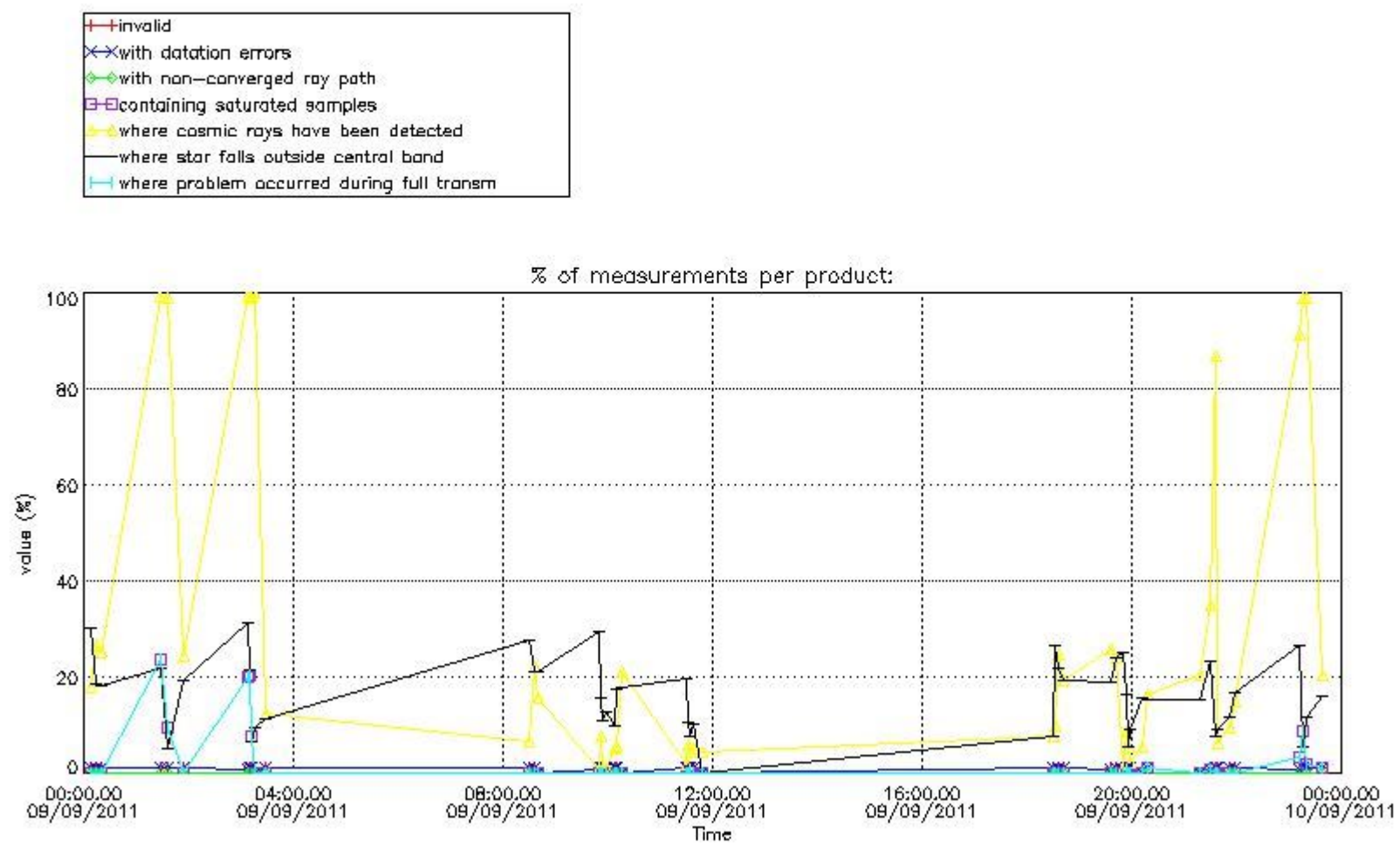


4. Level 1 quality information per product

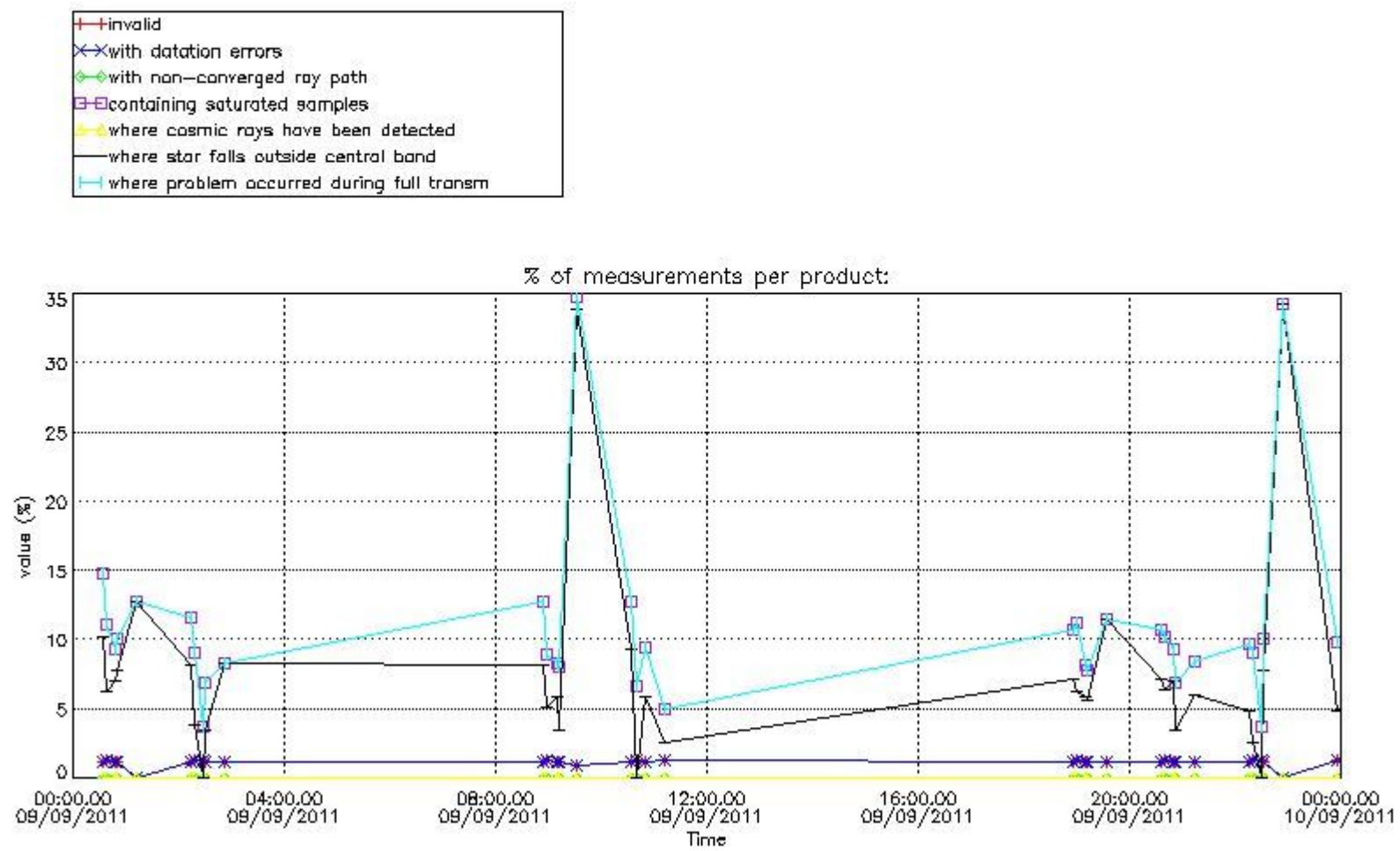
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



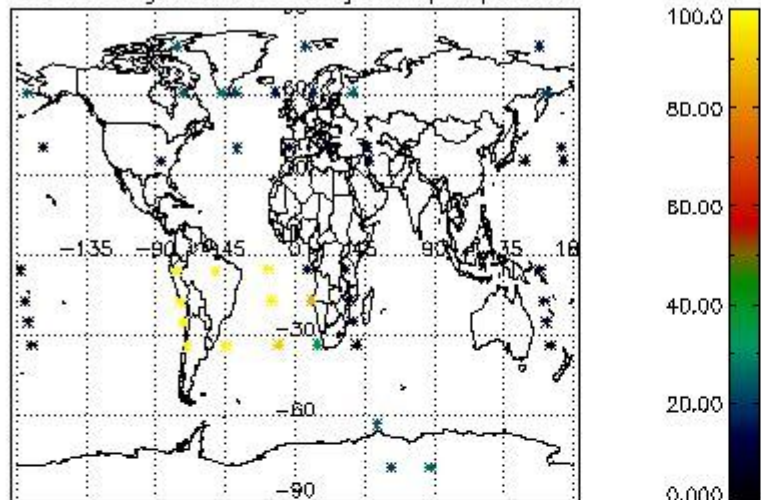
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



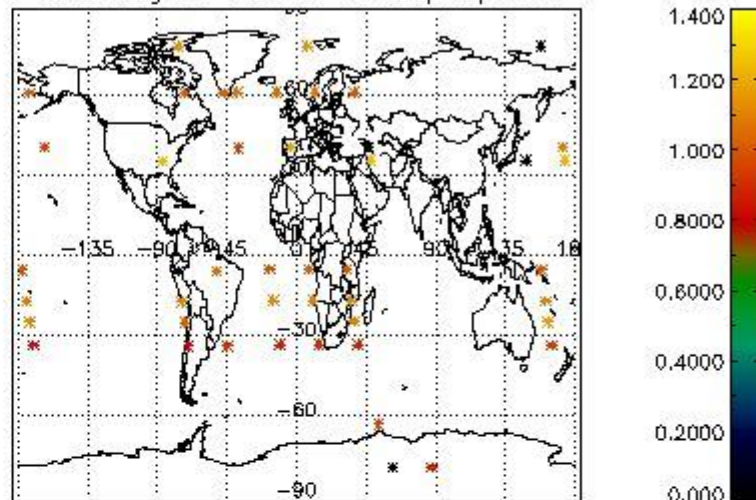
4.2 Plot quality information per product coming from level 1b processing (world map)

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

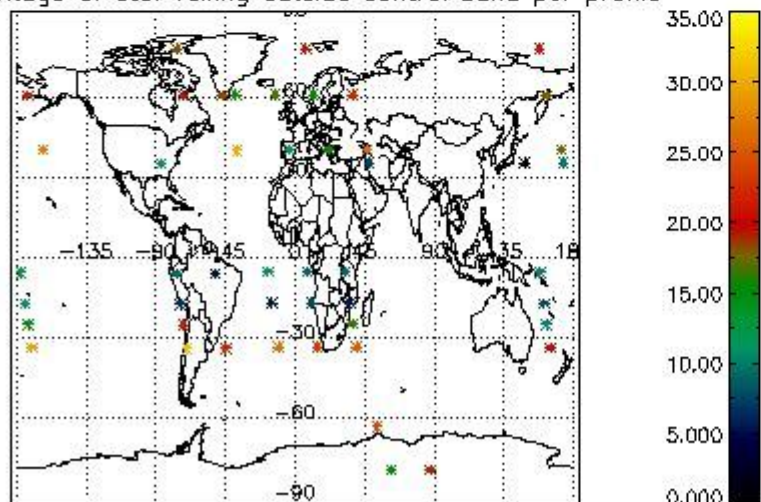
Percentage of cosmic ray hits per profile



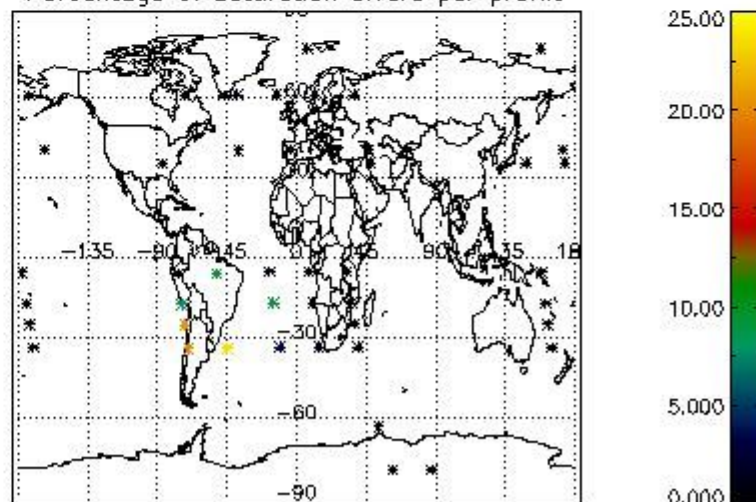
Percentage of datation errors per profile



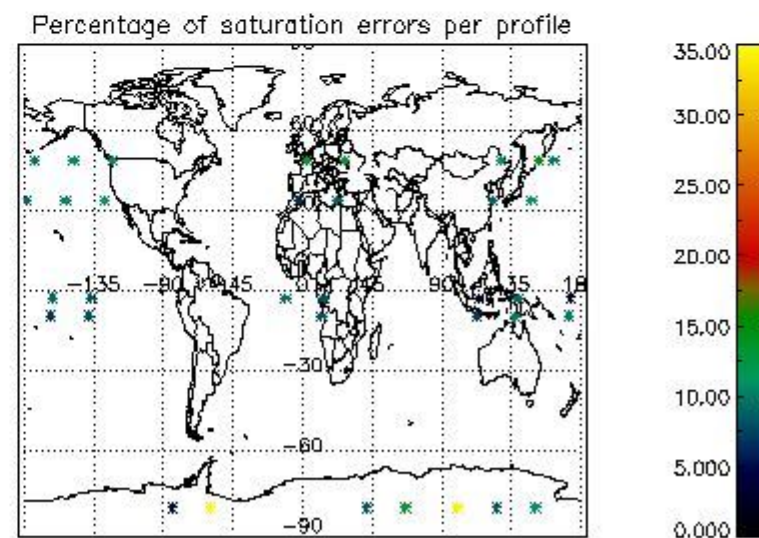
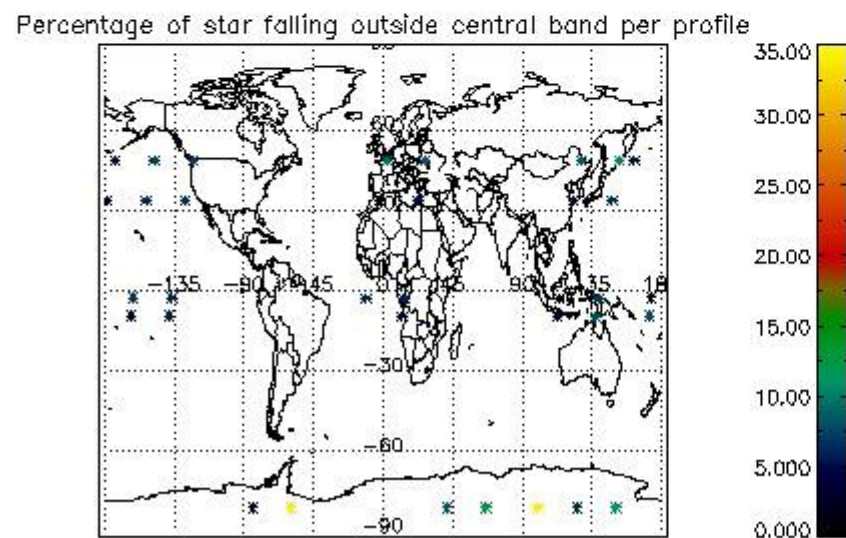
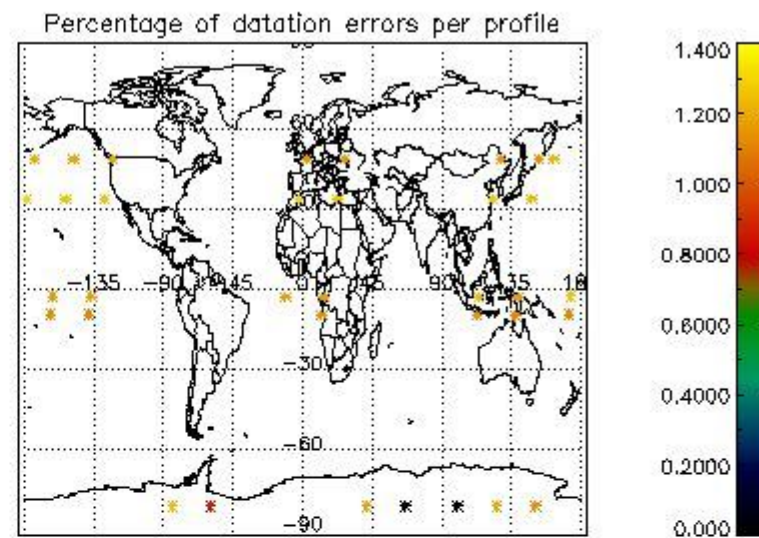
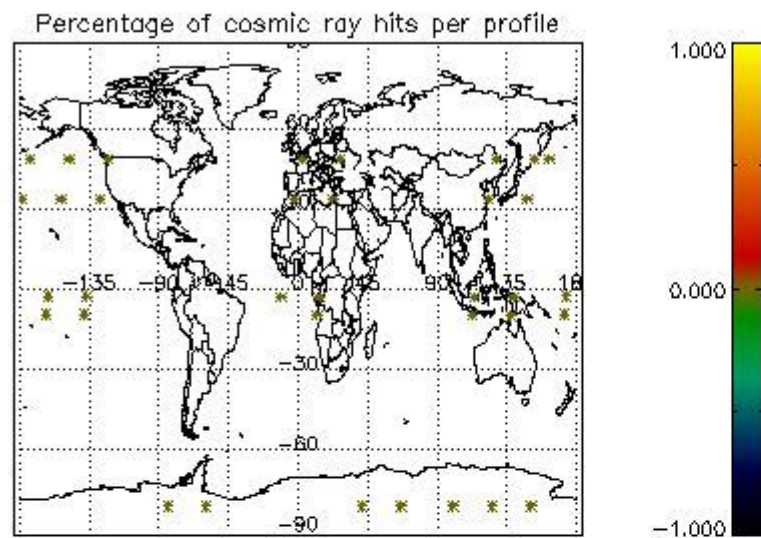
Percentage of star falling outside central band per profile



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

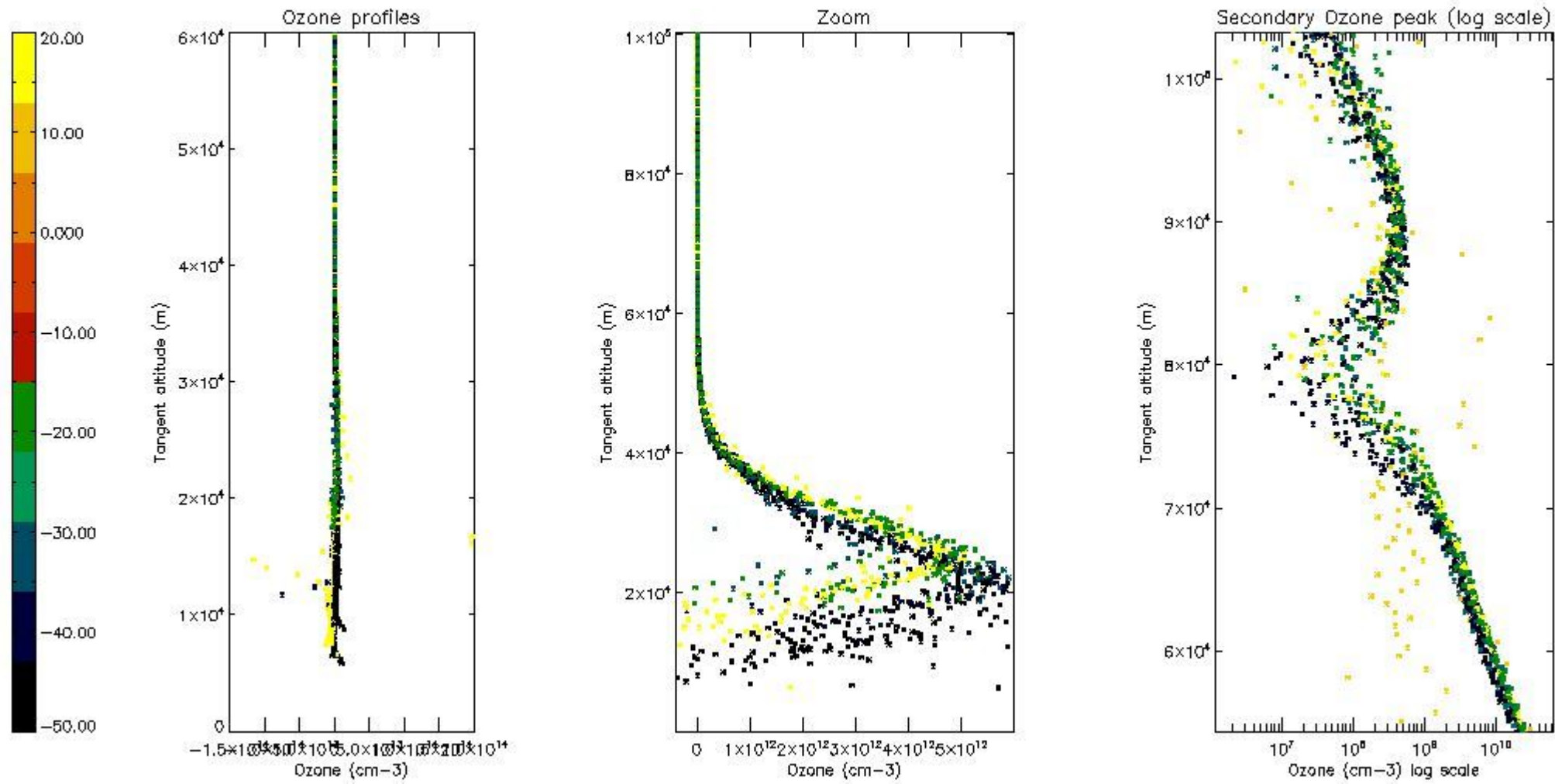
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	44
STD < 20	26

STD < 10	23
STD < 5	16

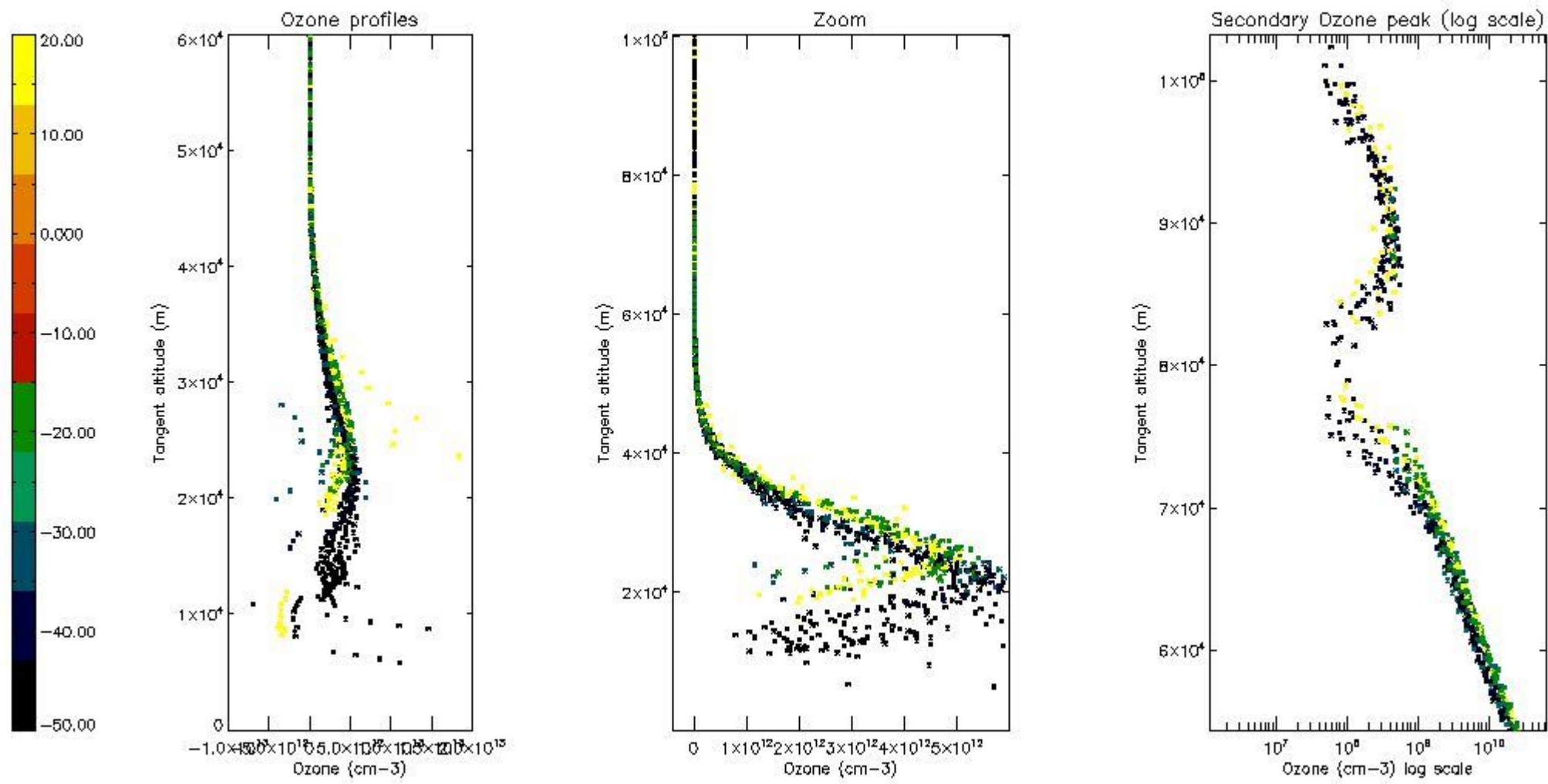
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



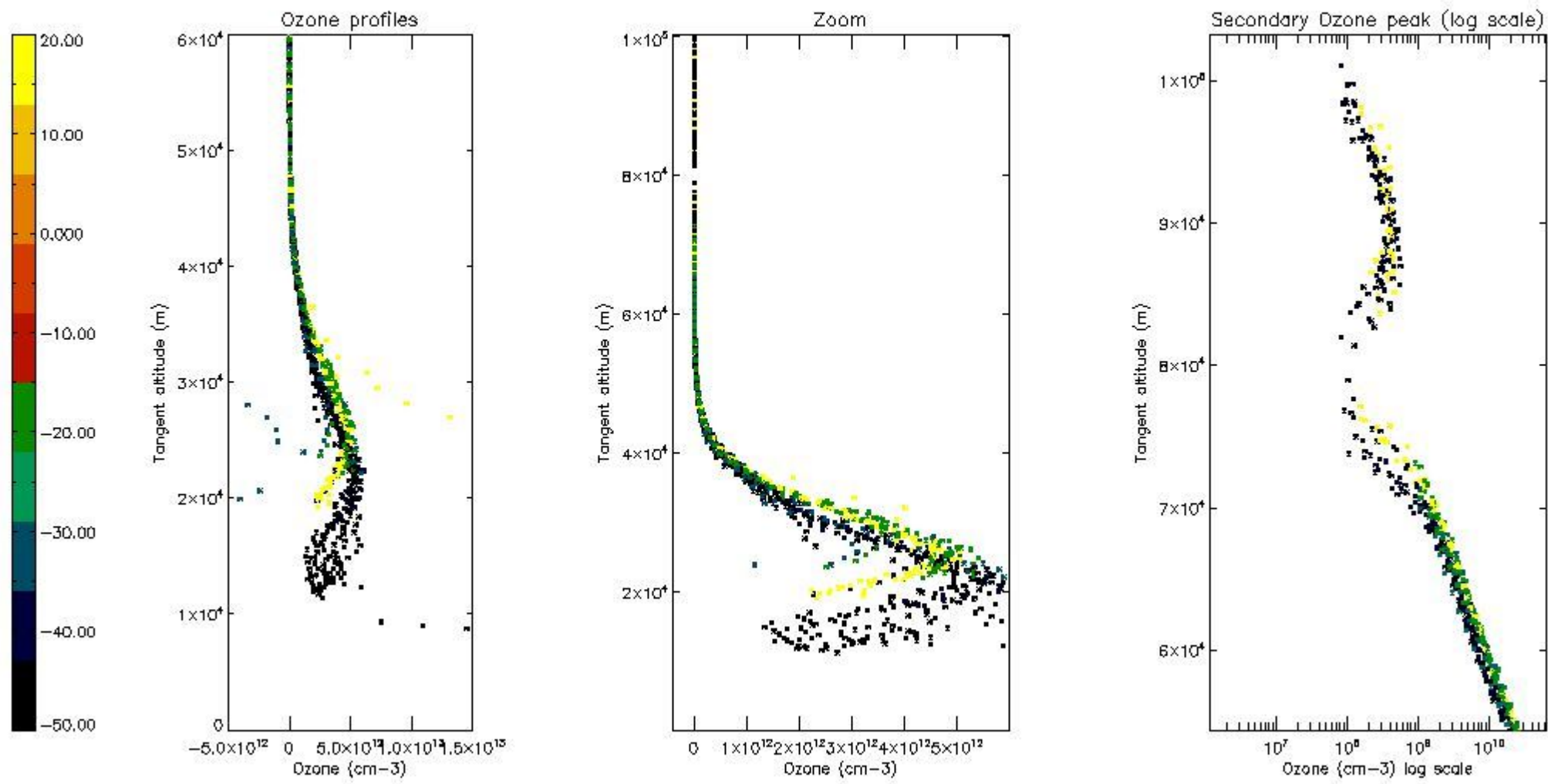
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



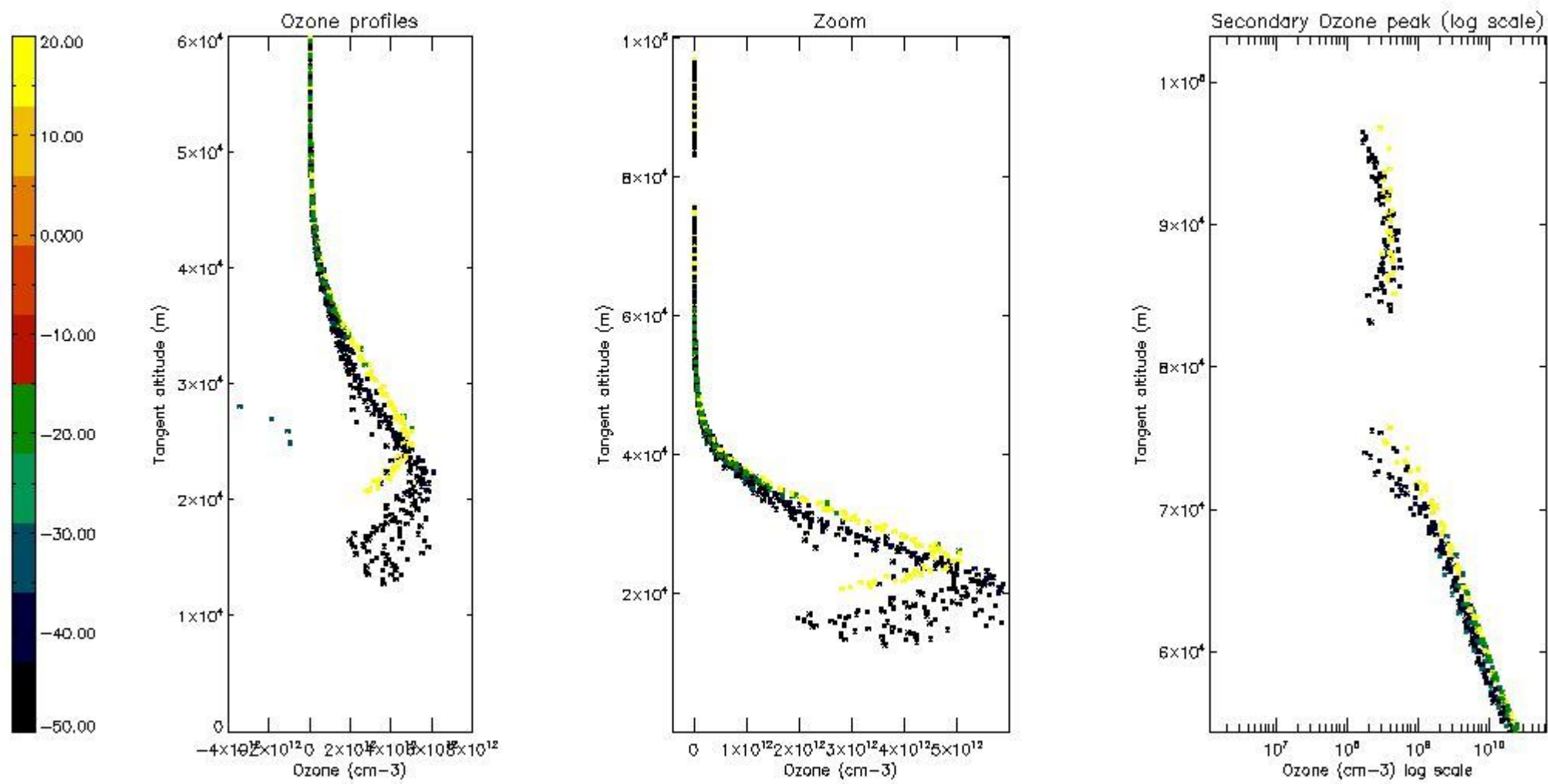
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



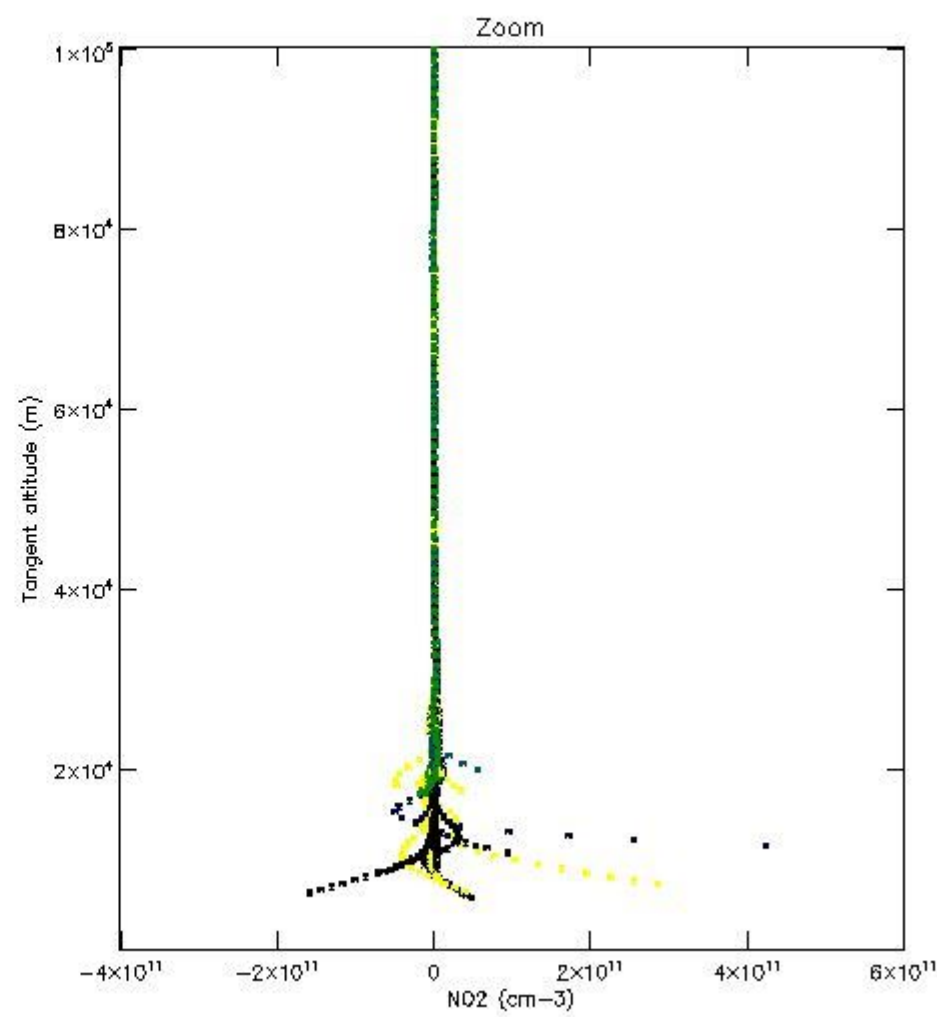
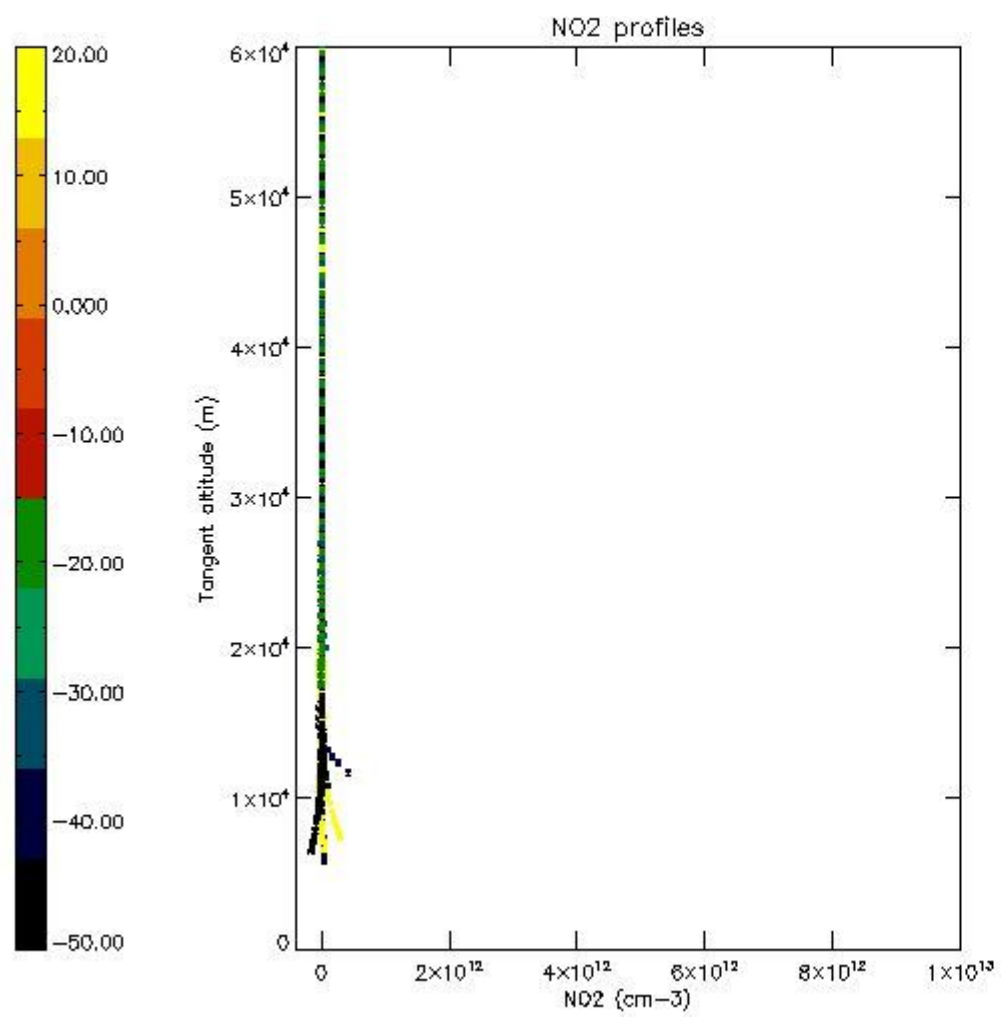
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



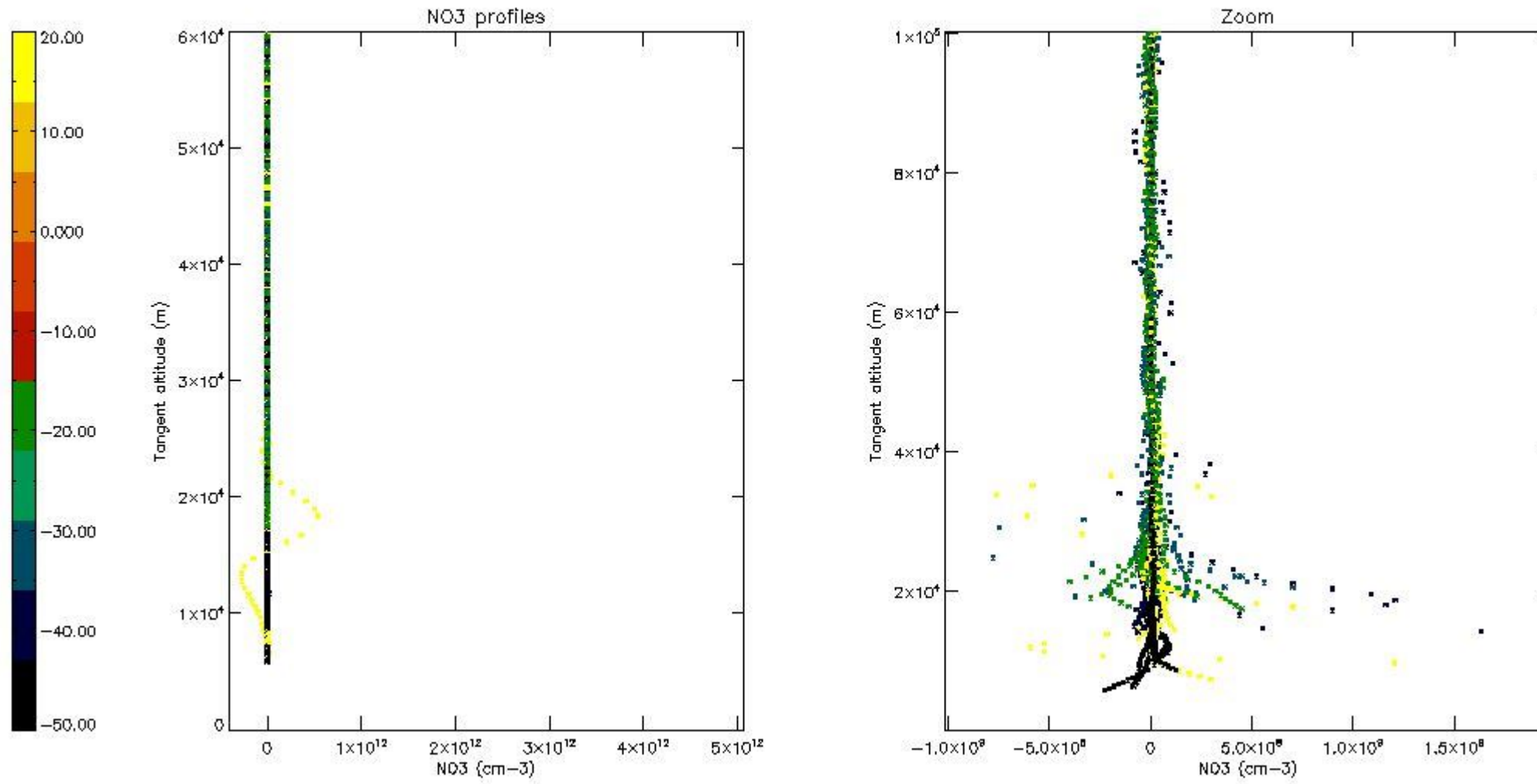
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

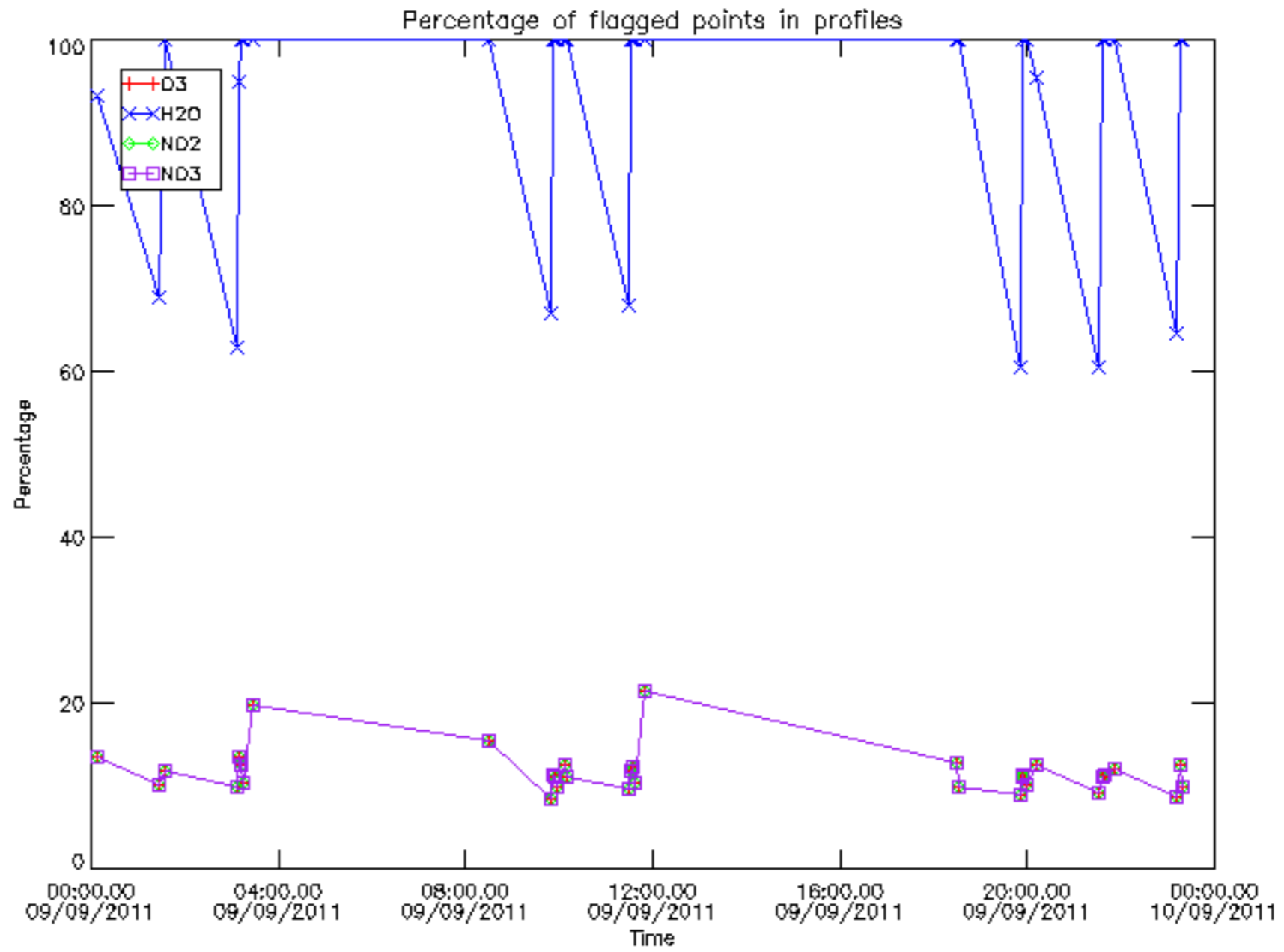
The colorbar represents the latitude.



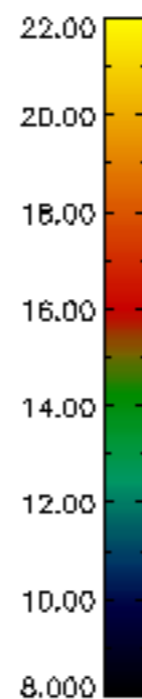
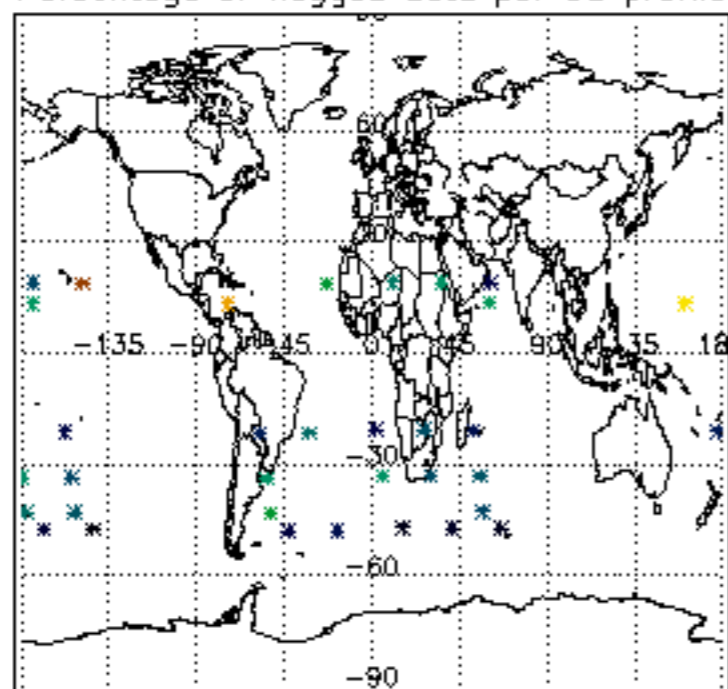
6. Auxiliary Data Files used for the production reported in section 2

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.

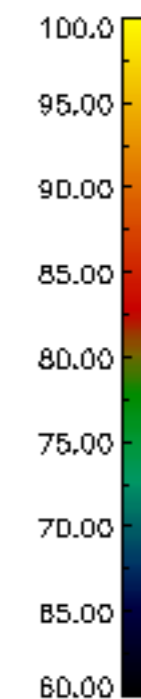
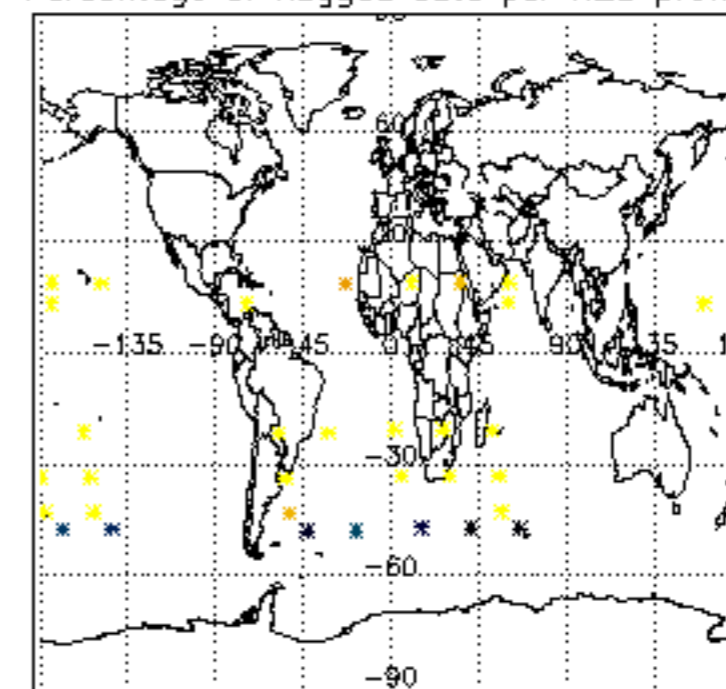
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	09-SEP-2011 00:08:23
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	09-SEP-2011 00:08:23
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	09-SEP-2011 00:08:23



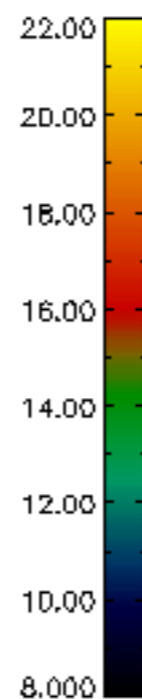
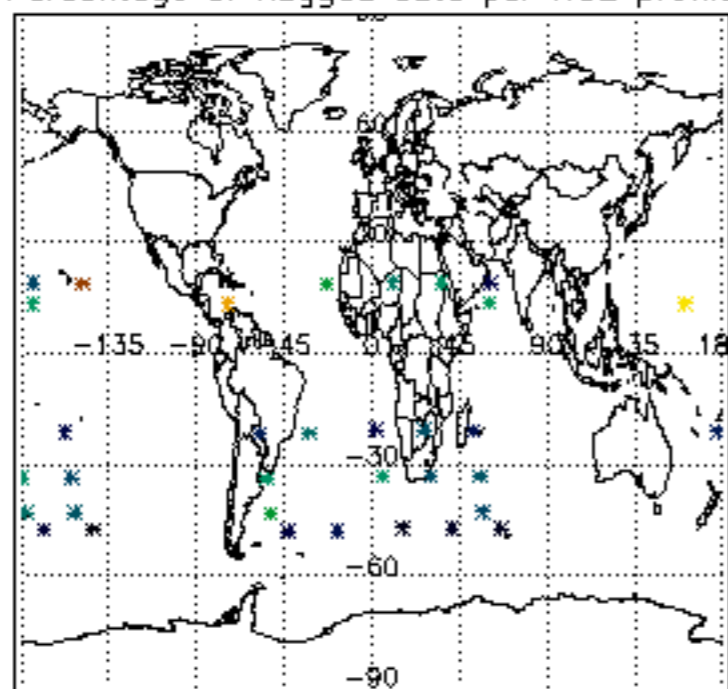
Percentage of flagged data per D3 profile



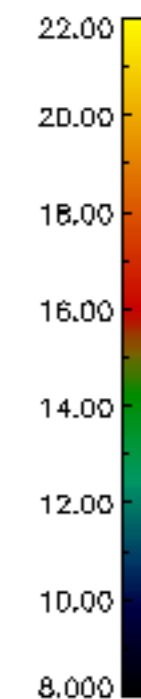
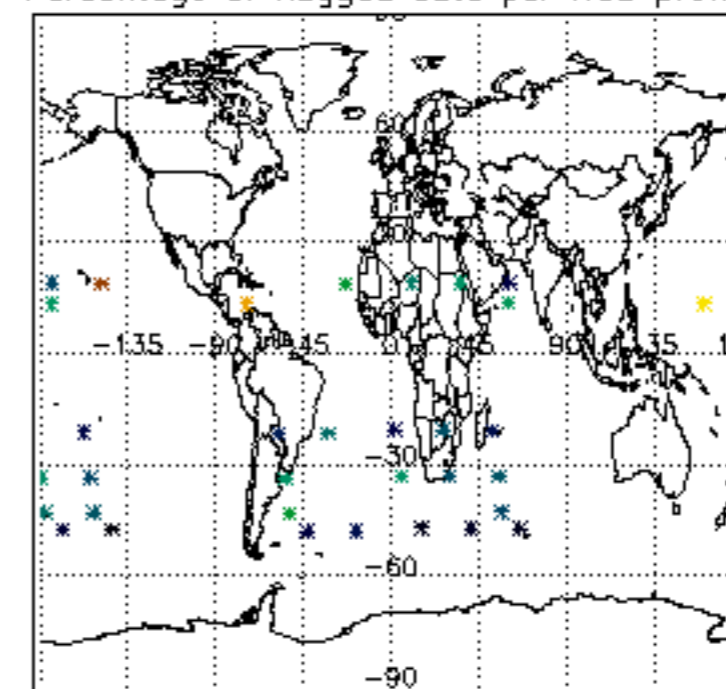
Percentage of flagged data per H2O profile

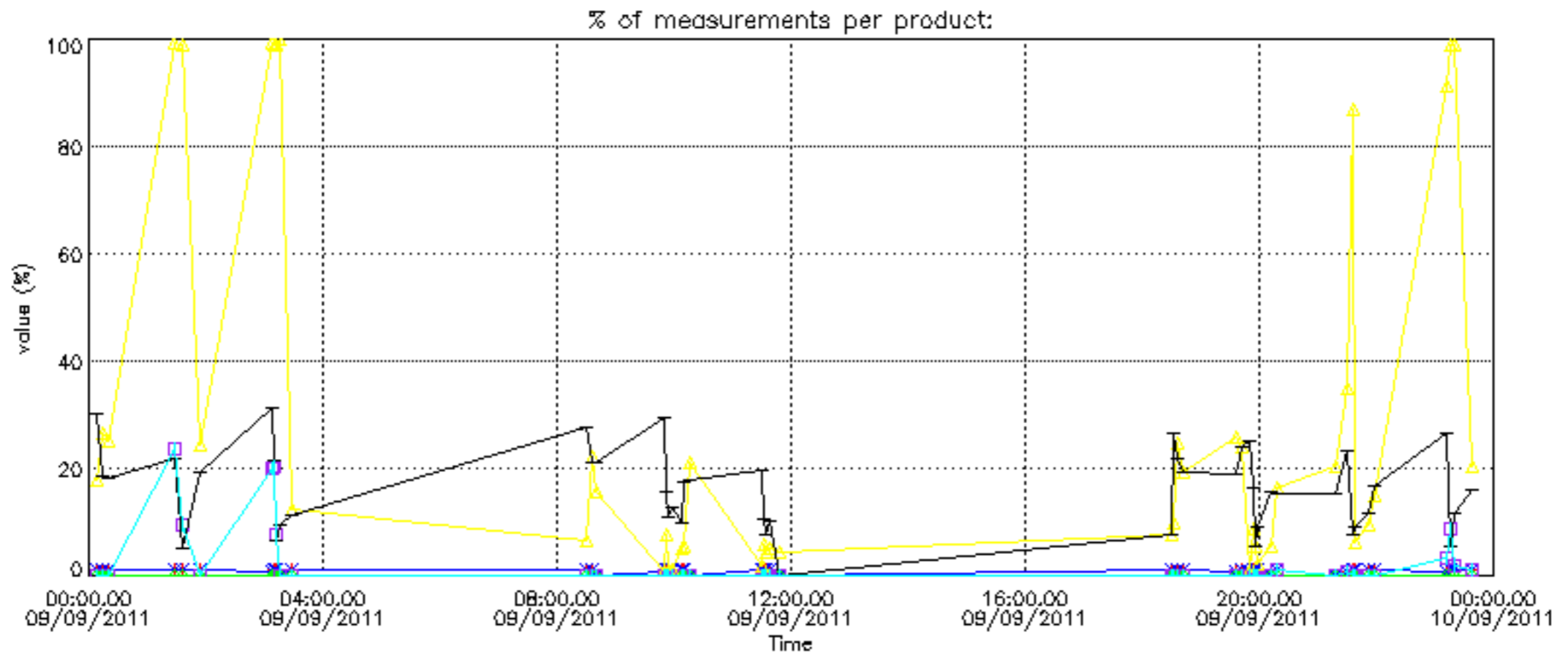


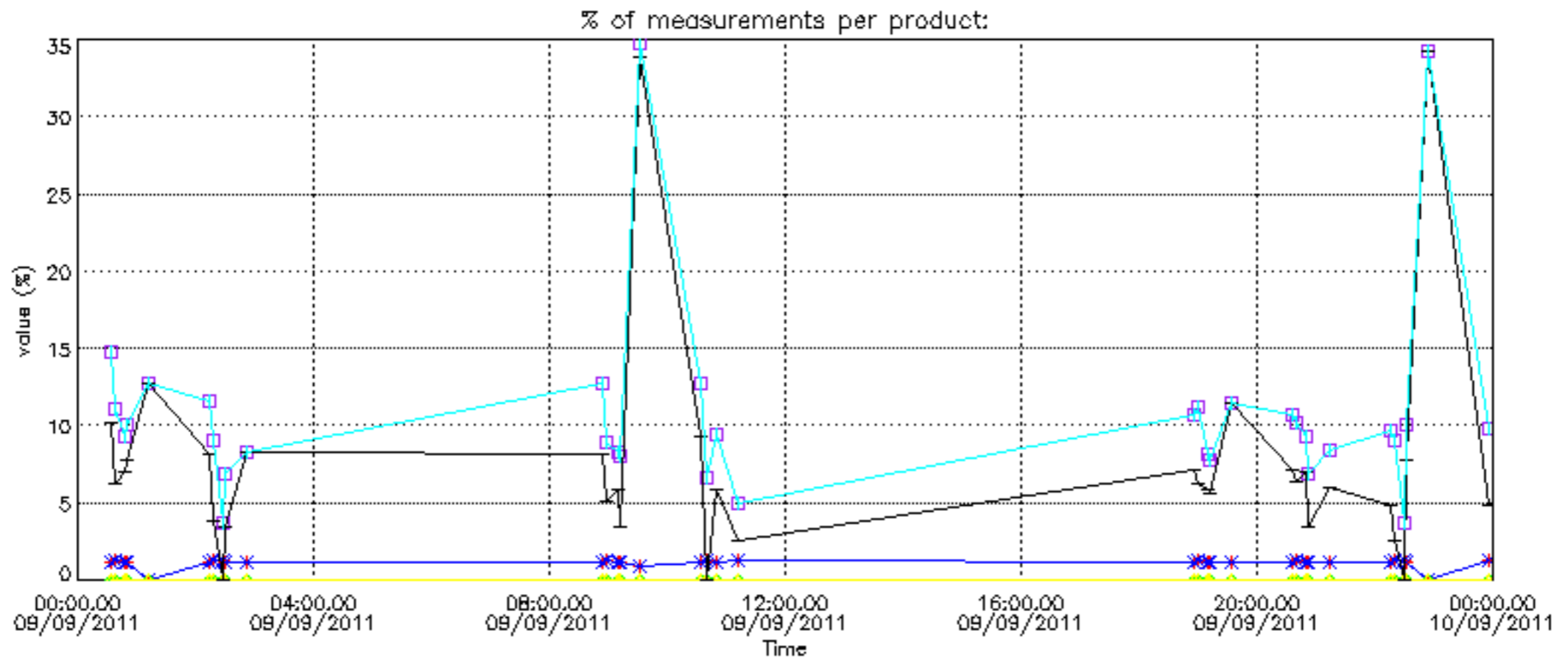
Percentage of flagged data per NO2 profile



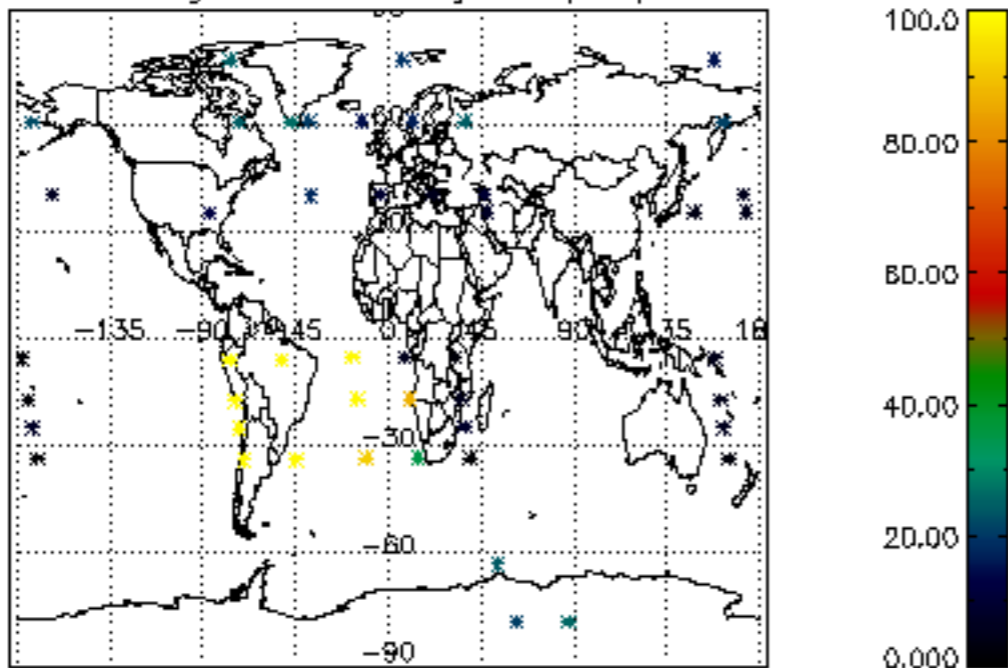
Percentage of flagged data per NO3 profile



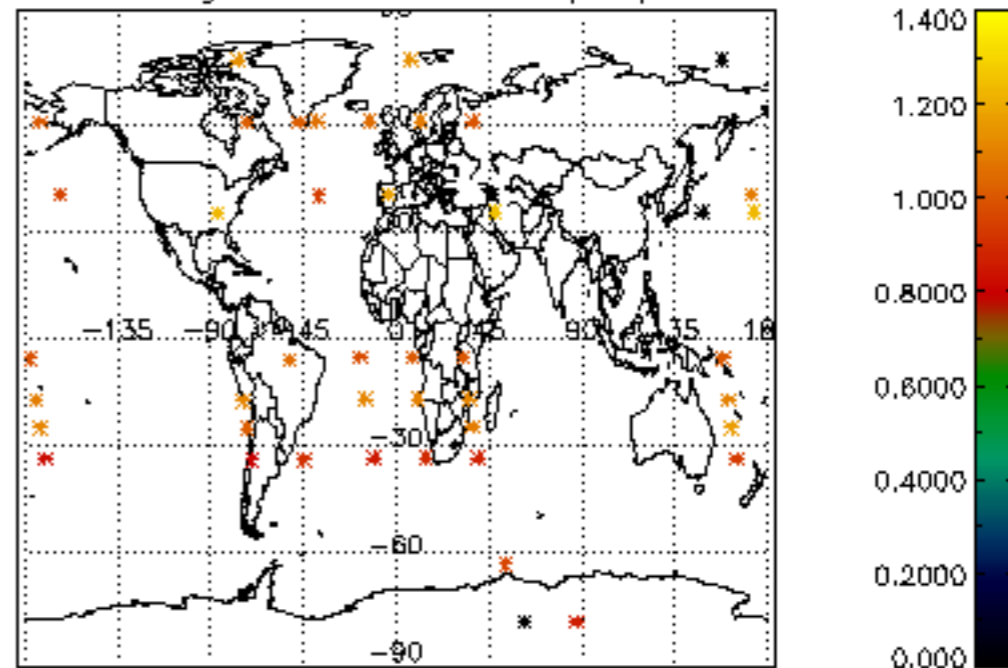




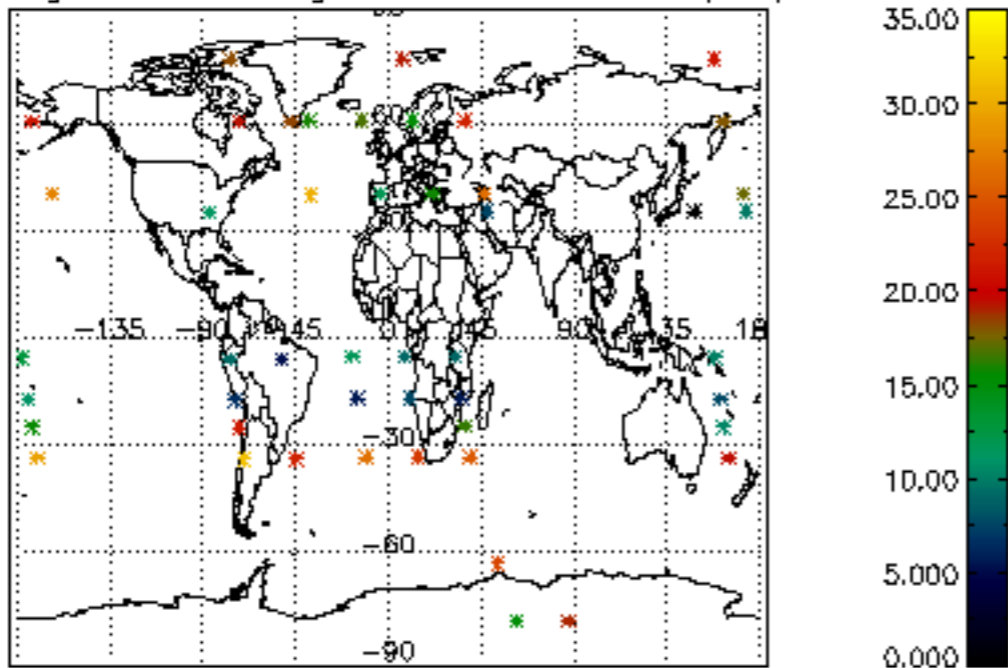
Percentage of cosmic ray hits per profile



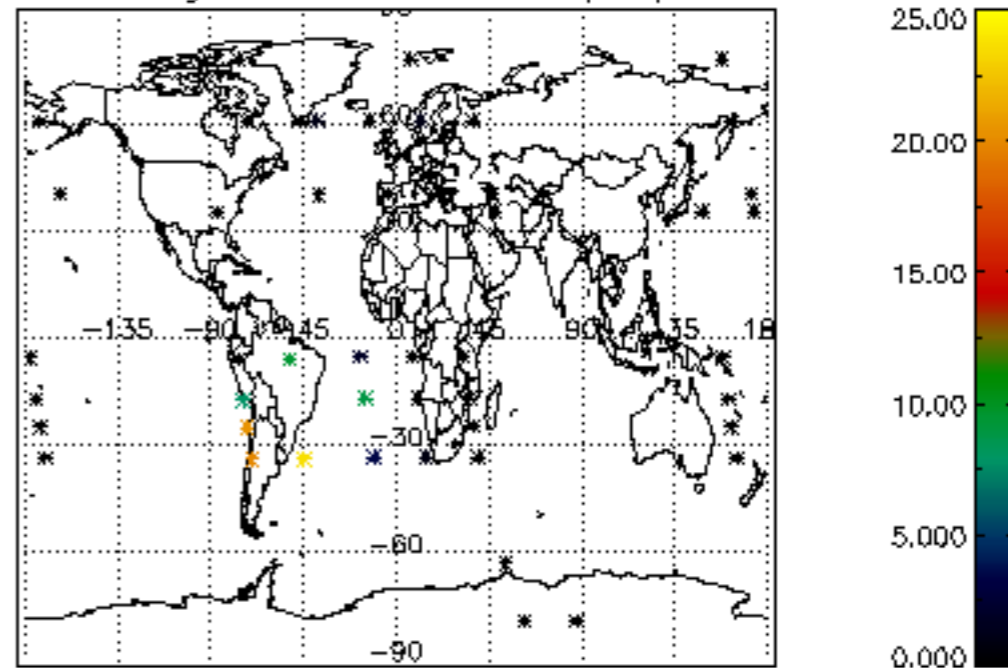
Percentage of datation errors per profile



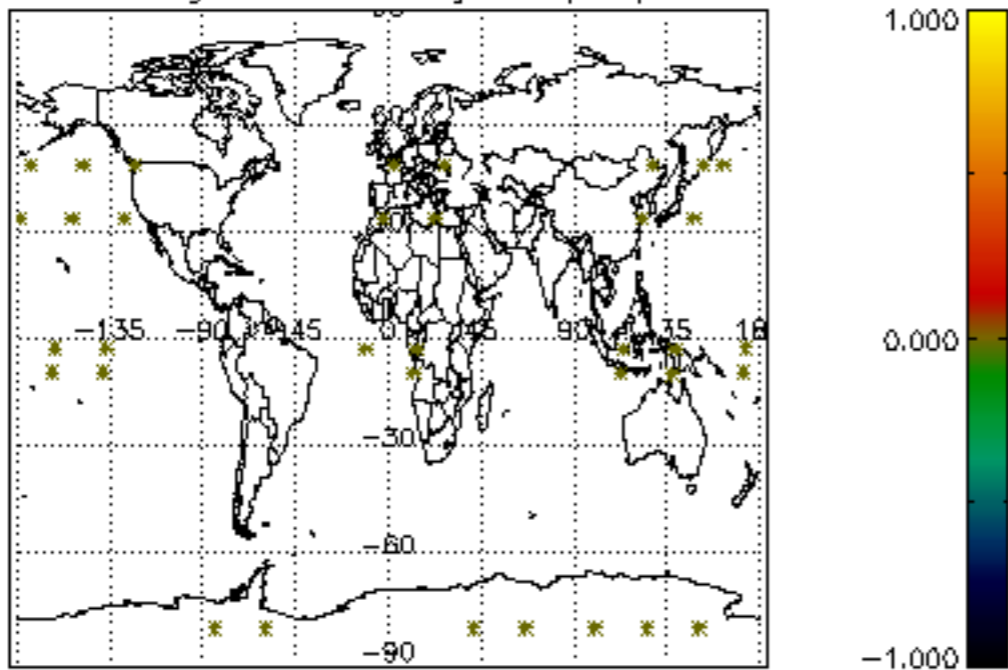
Percentage of star falling outside central band per profile



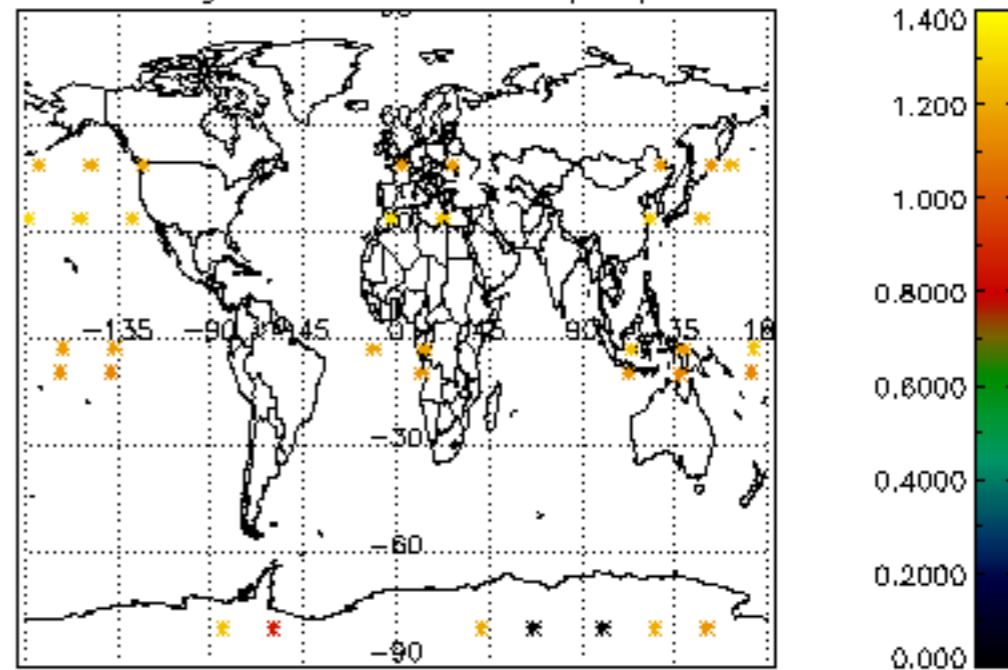
Percentage of saturation errors per profile



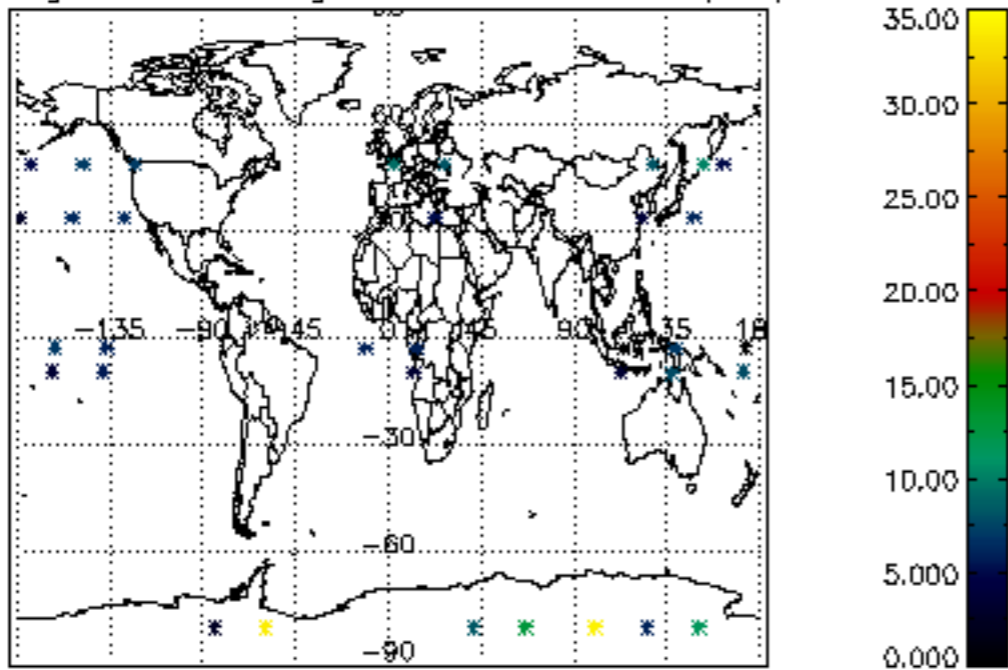
Percentage of cosmic ray hits per profile



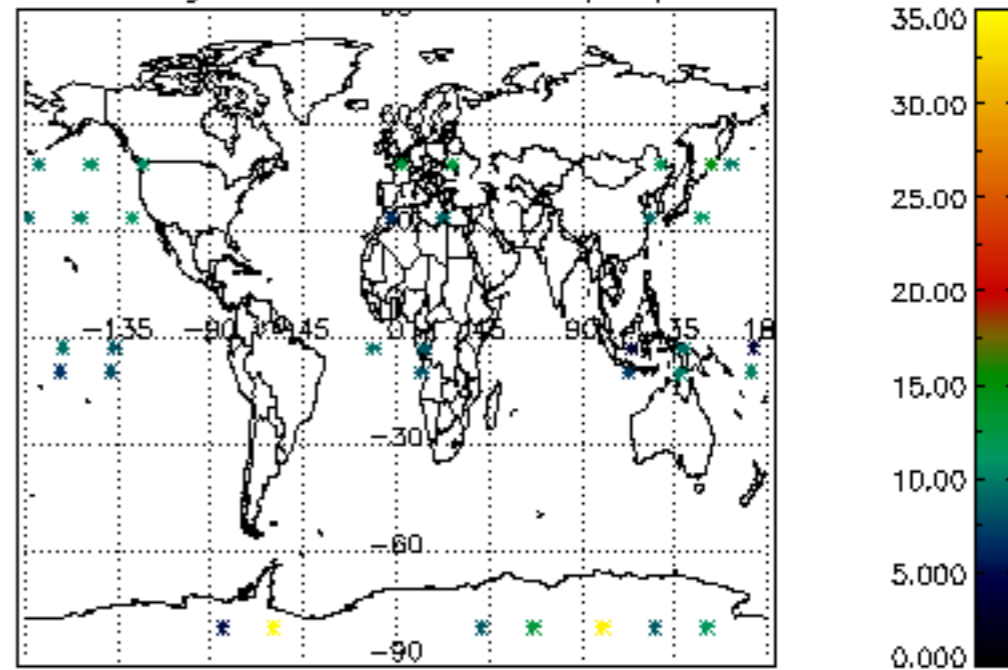
Percentage of datation errors per profile

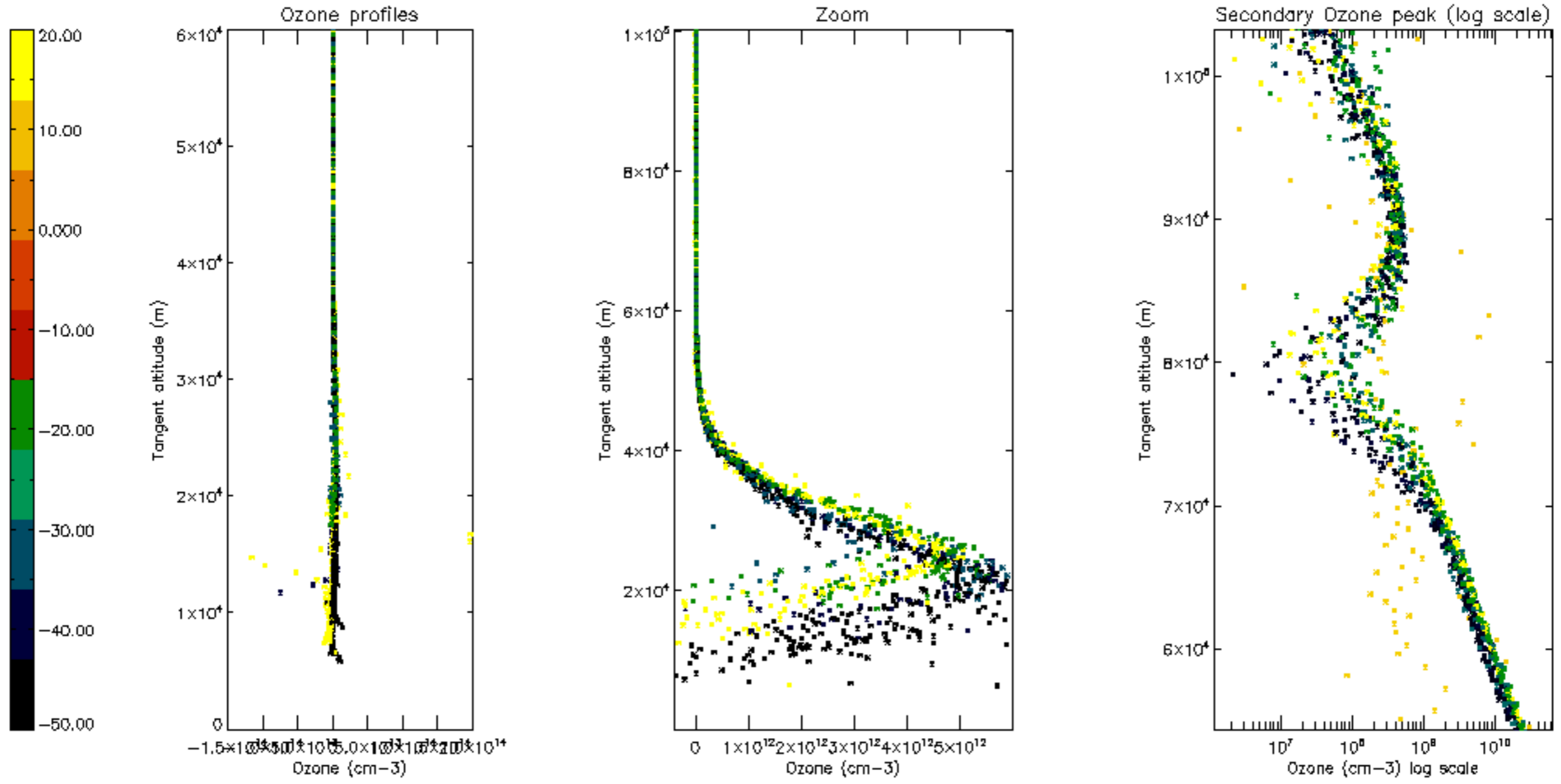


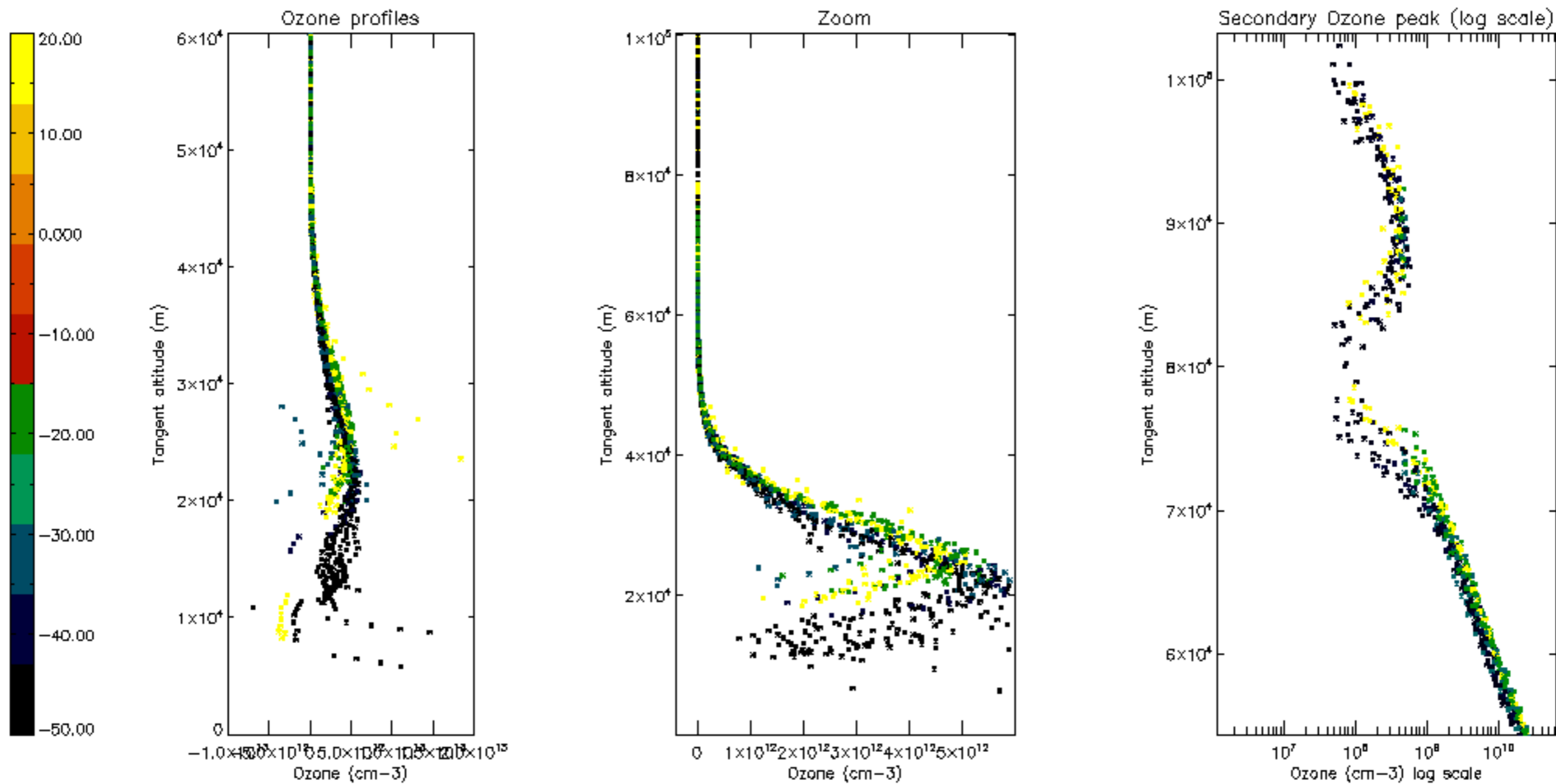
Percentage of star falling outside central band per profile

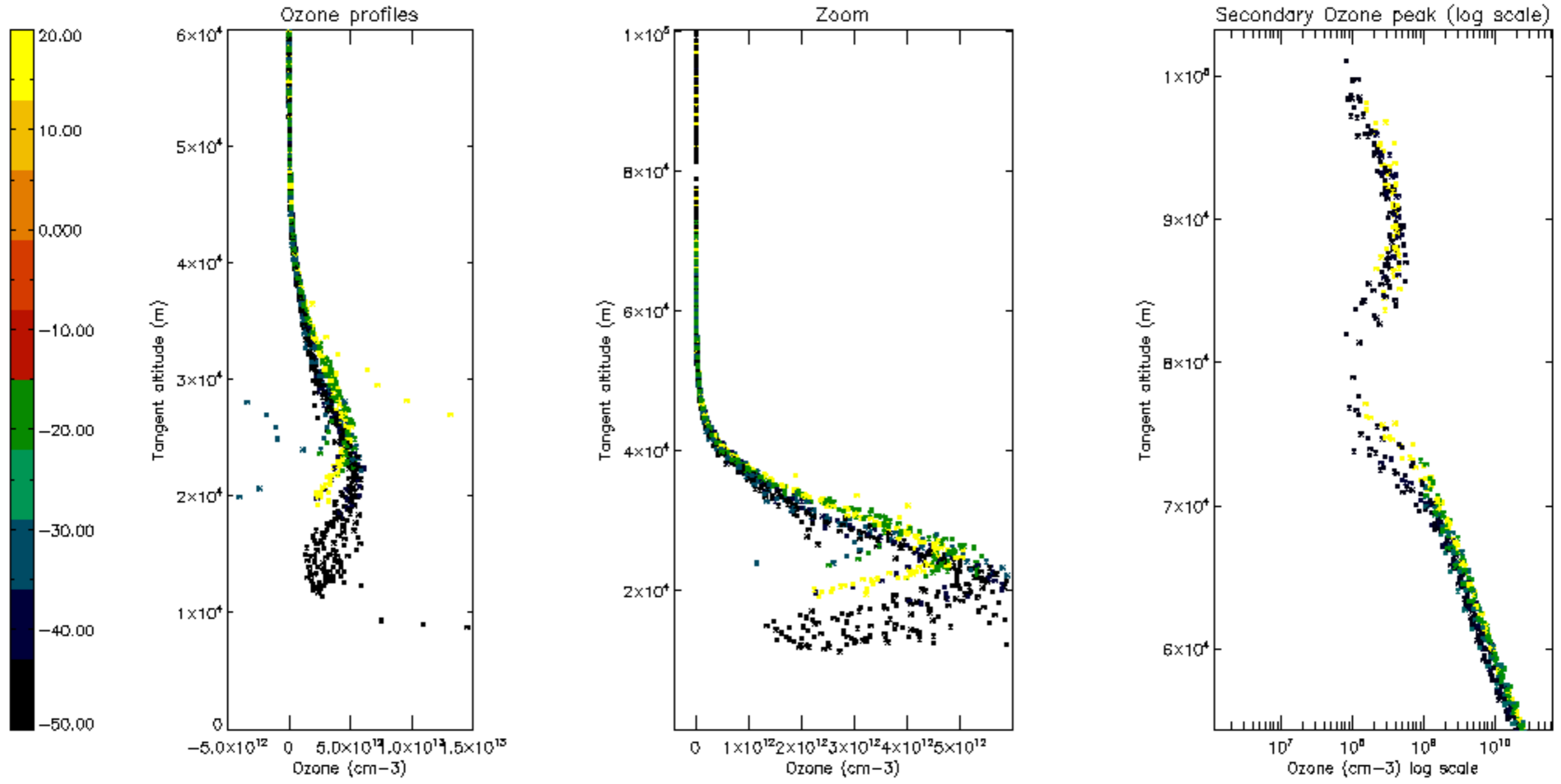


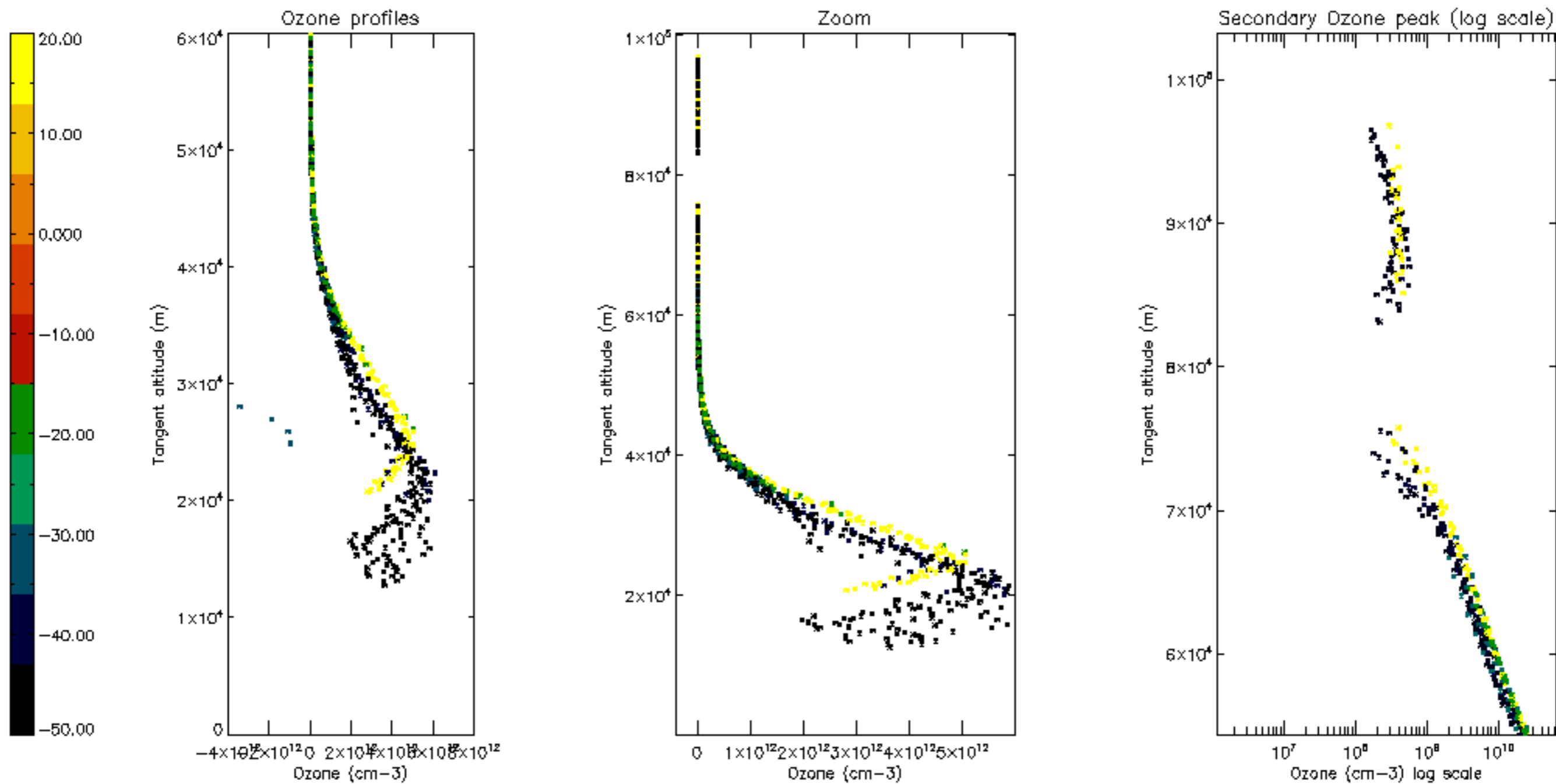
Percentage of saturation errors per profile

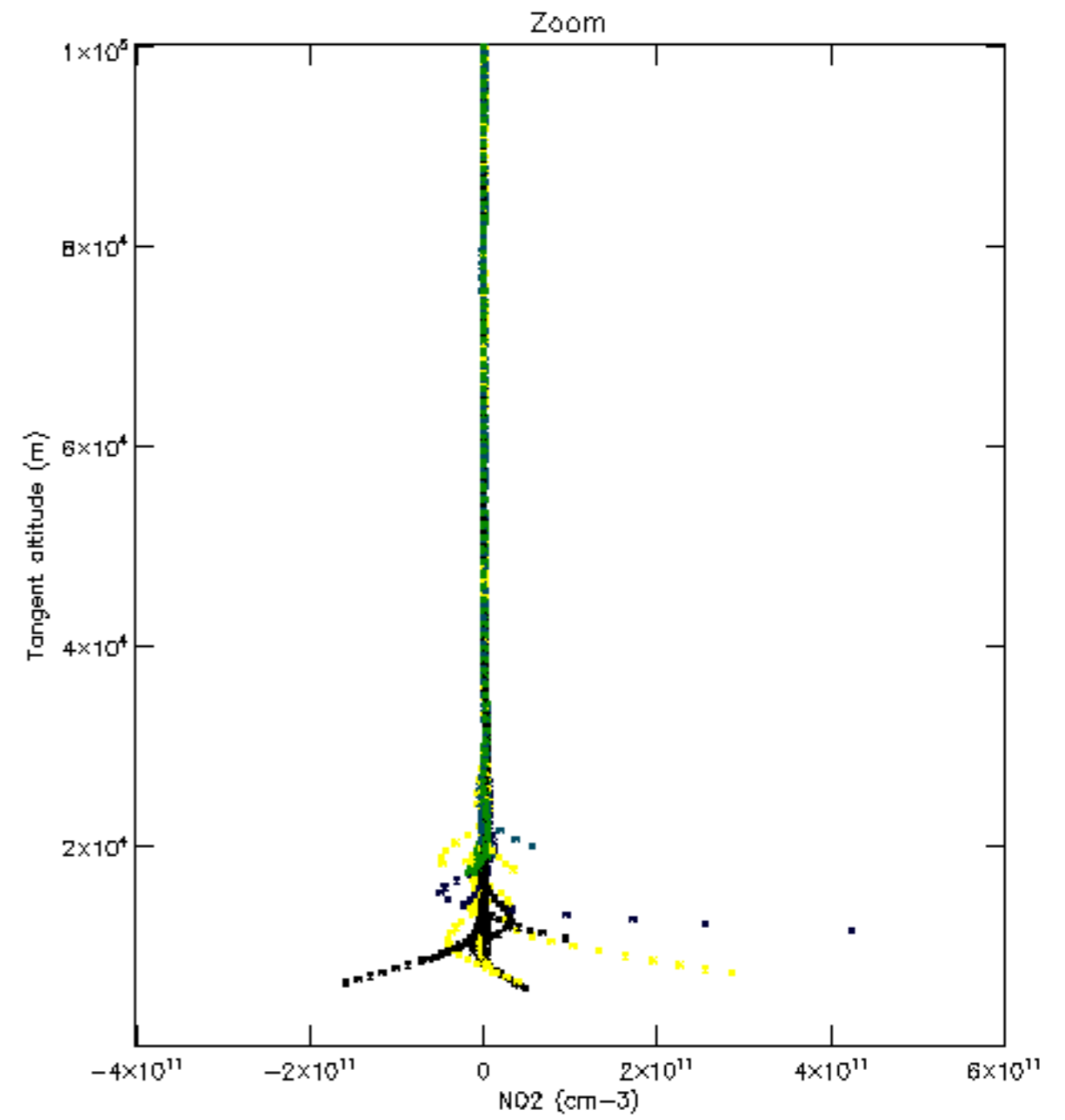
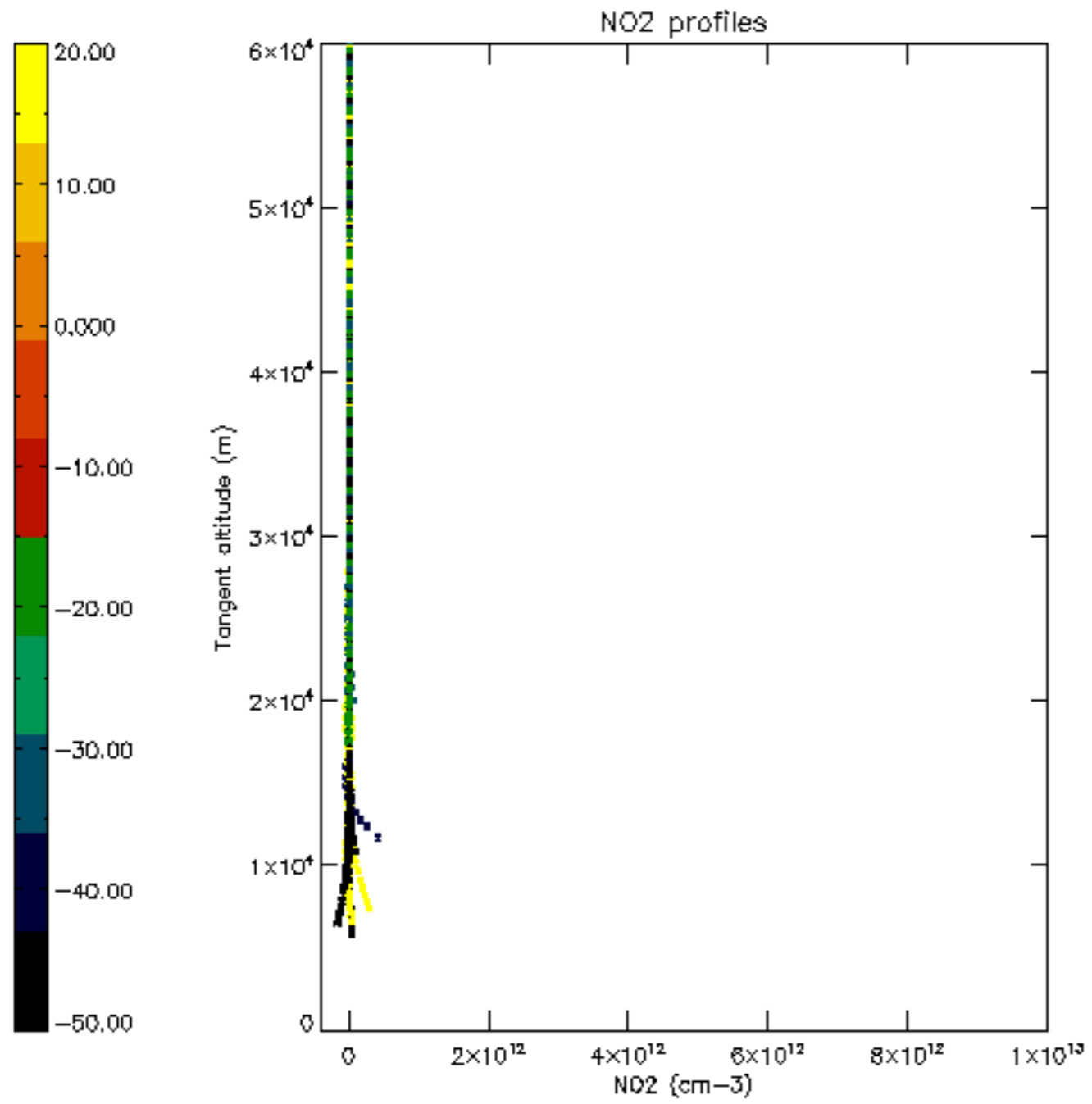


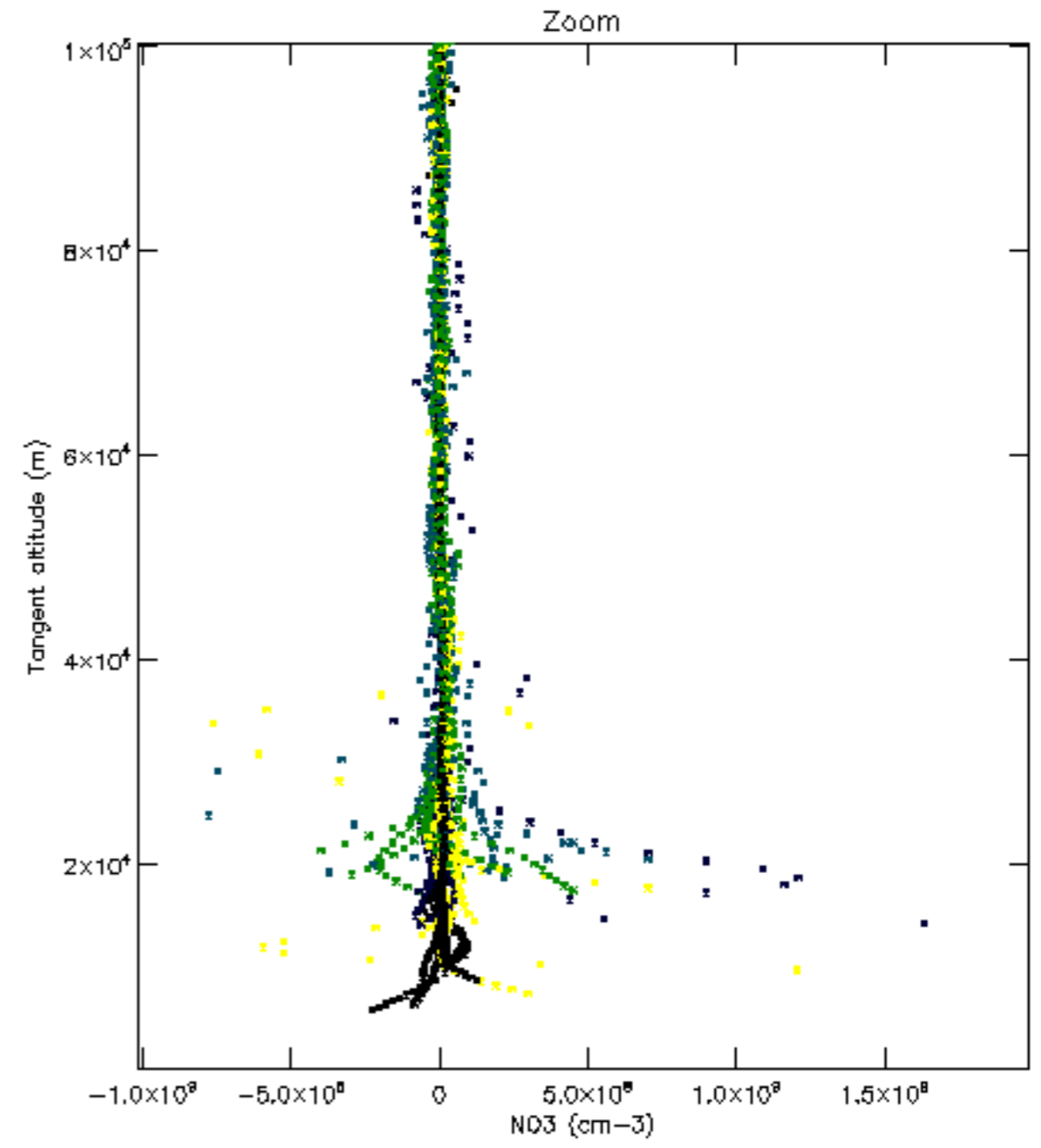
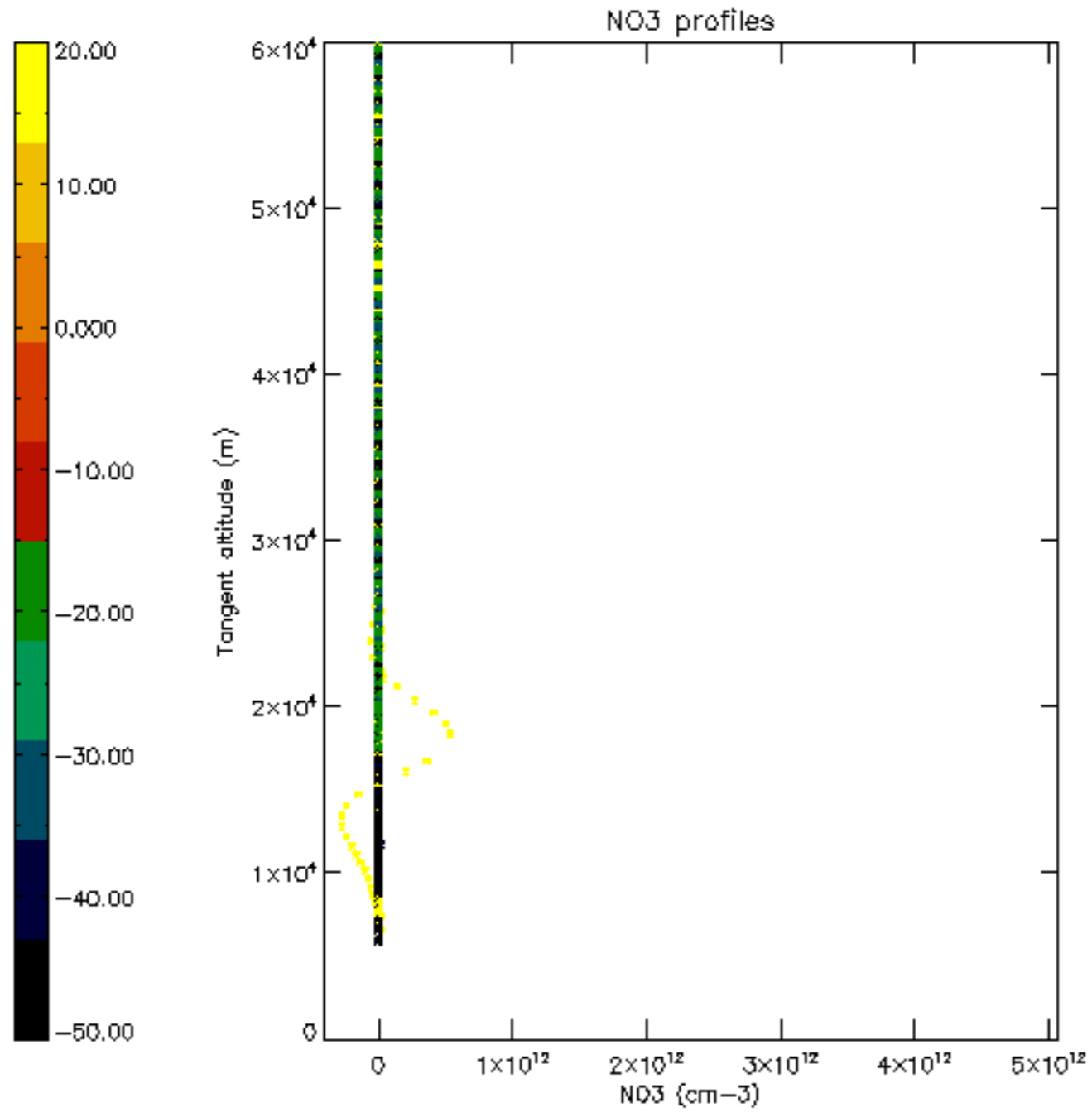


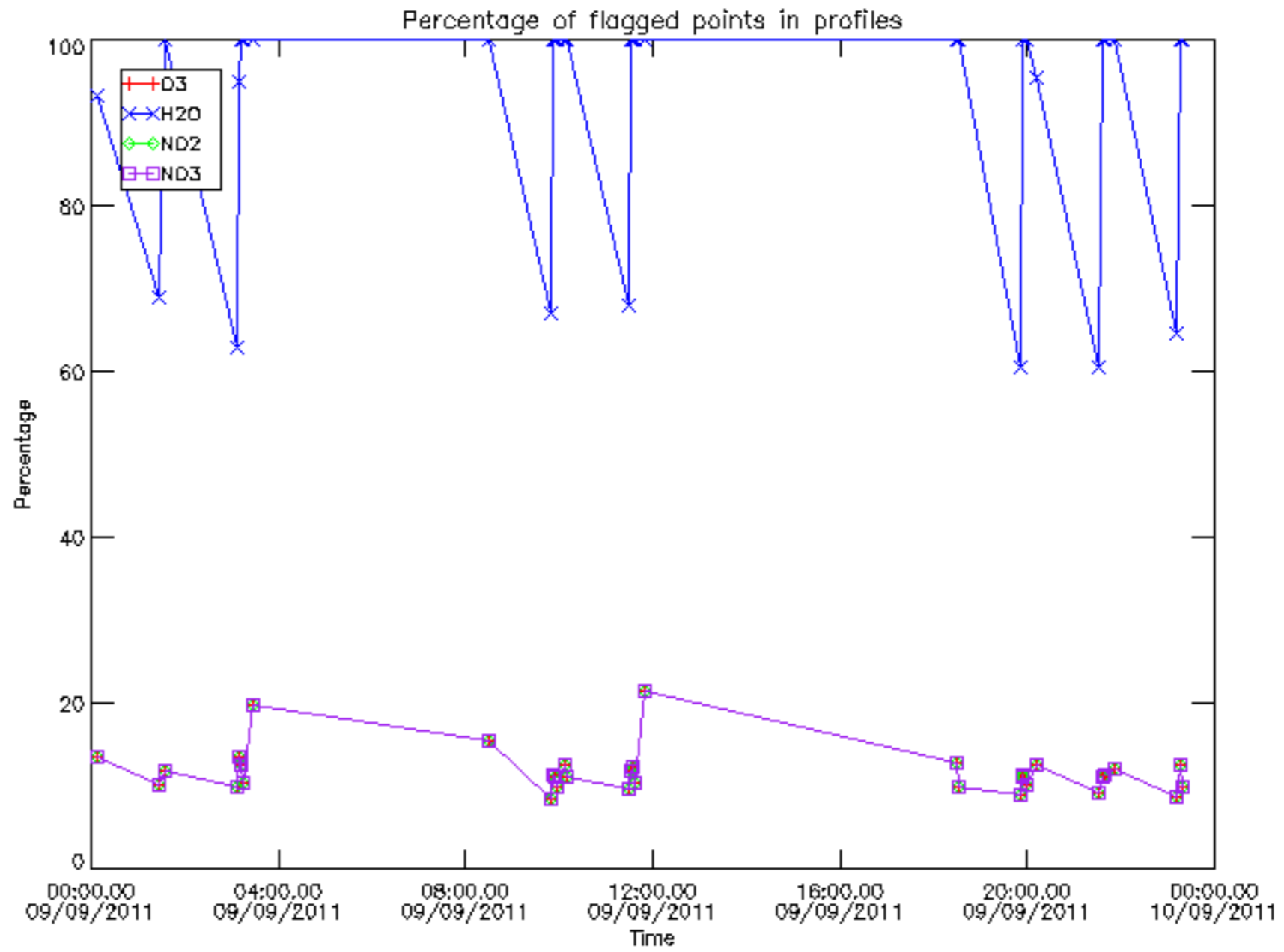




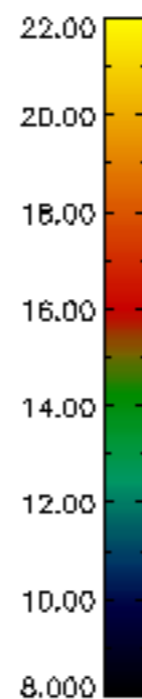
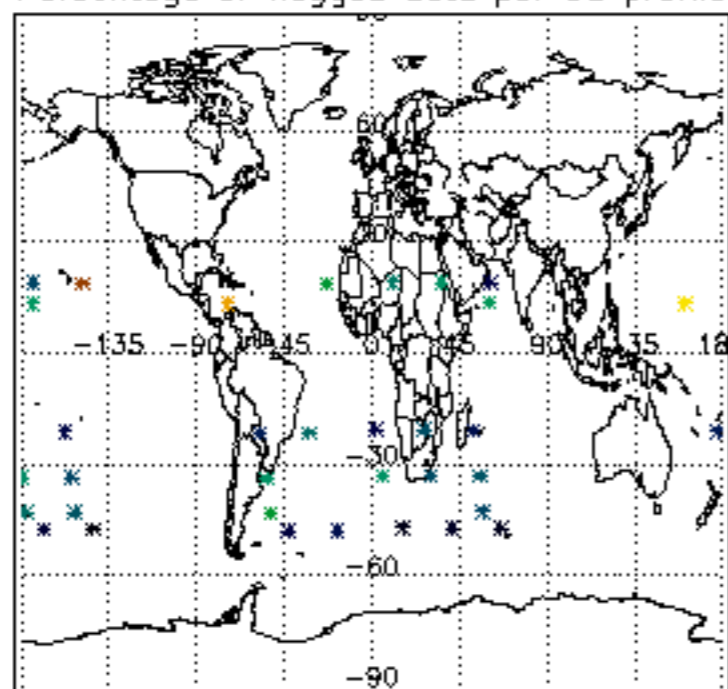




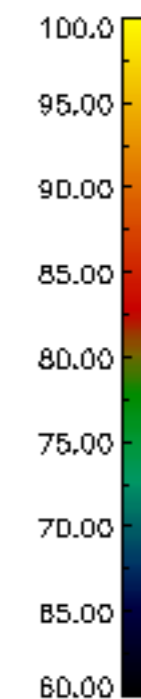
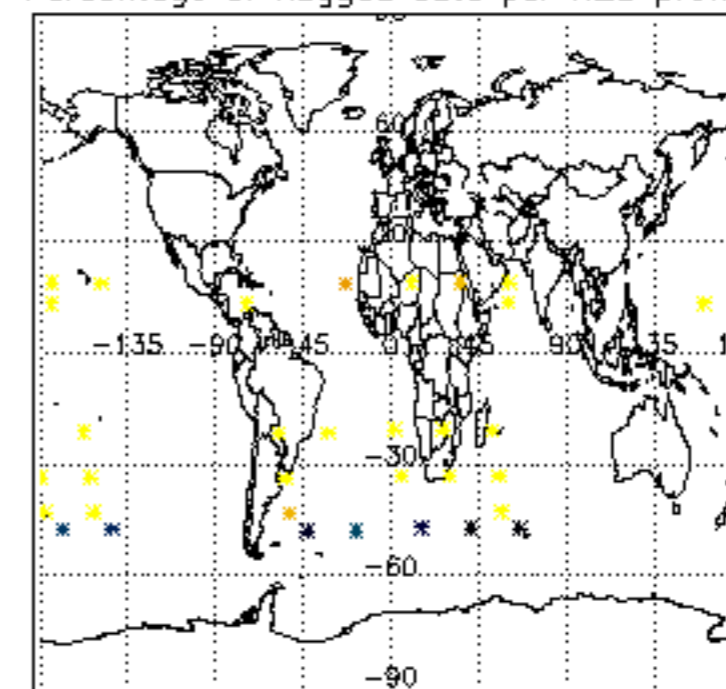




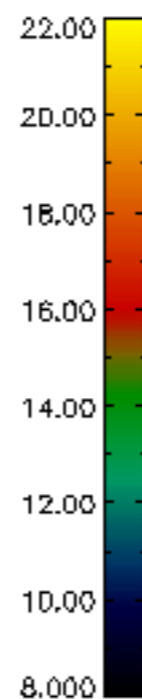
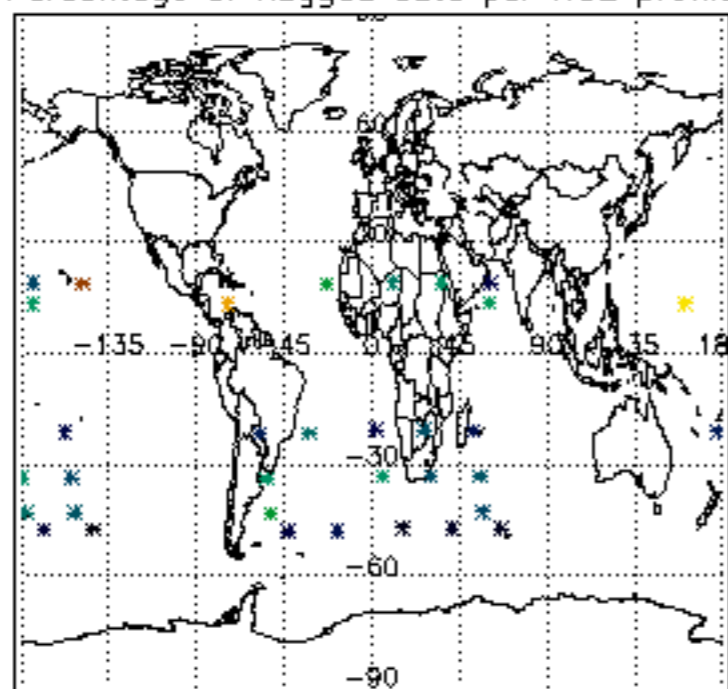
Percentage of flagged data per D3 profile



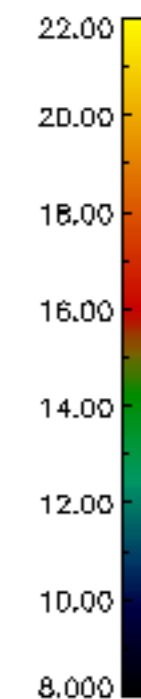
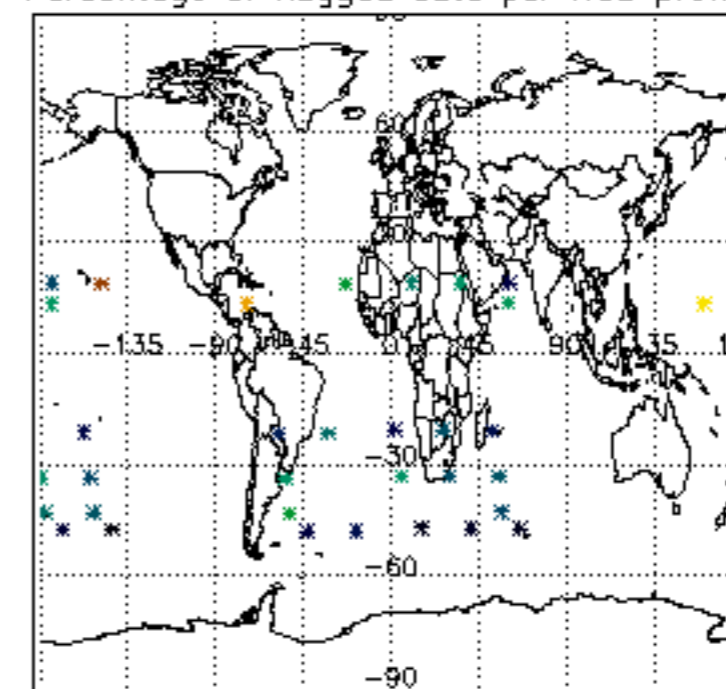
Percentage of flagged data per H2O profile

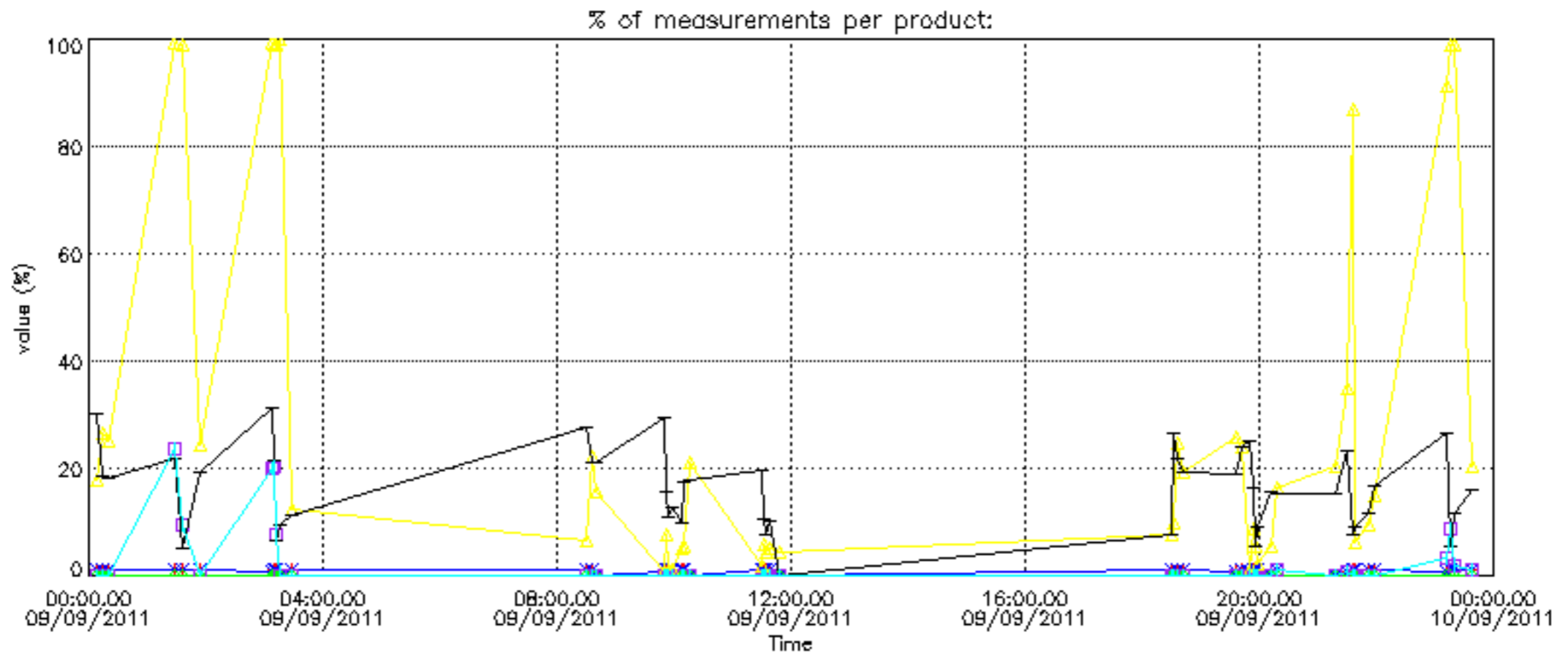


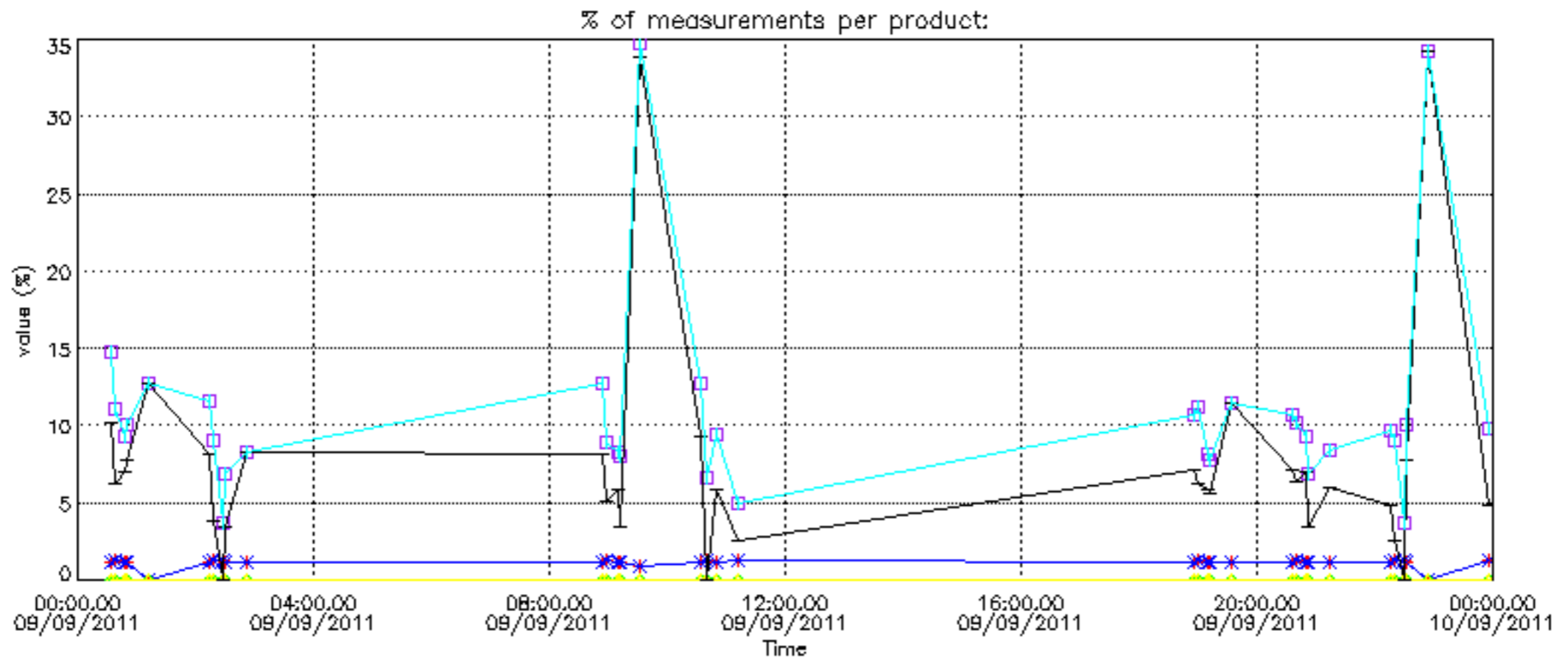
Percentage of flagged data per NO2 profile



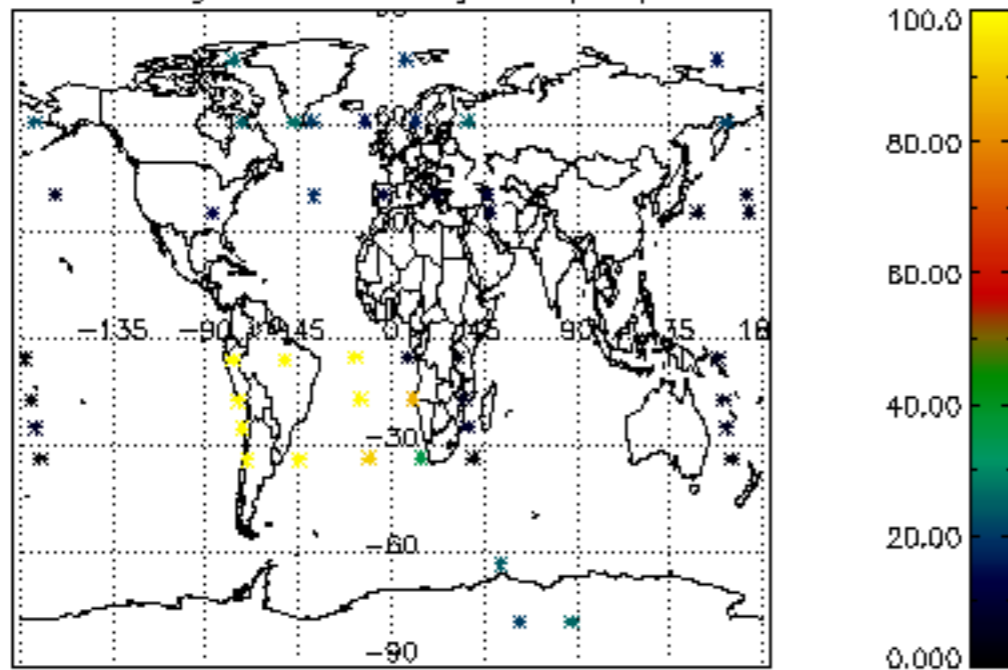
Percentage of flagged data per NO3 profile



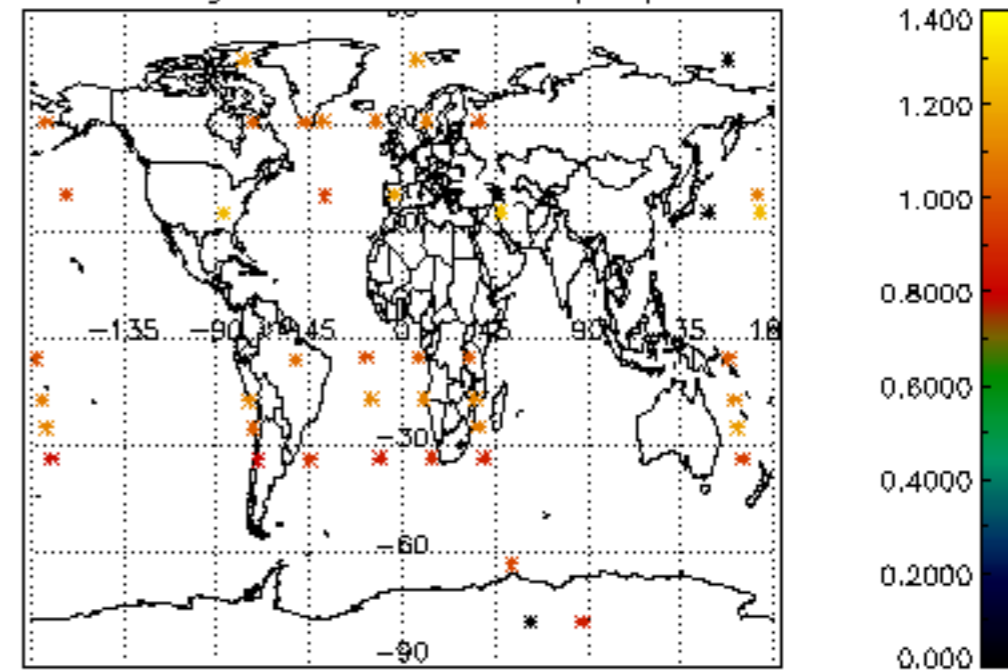




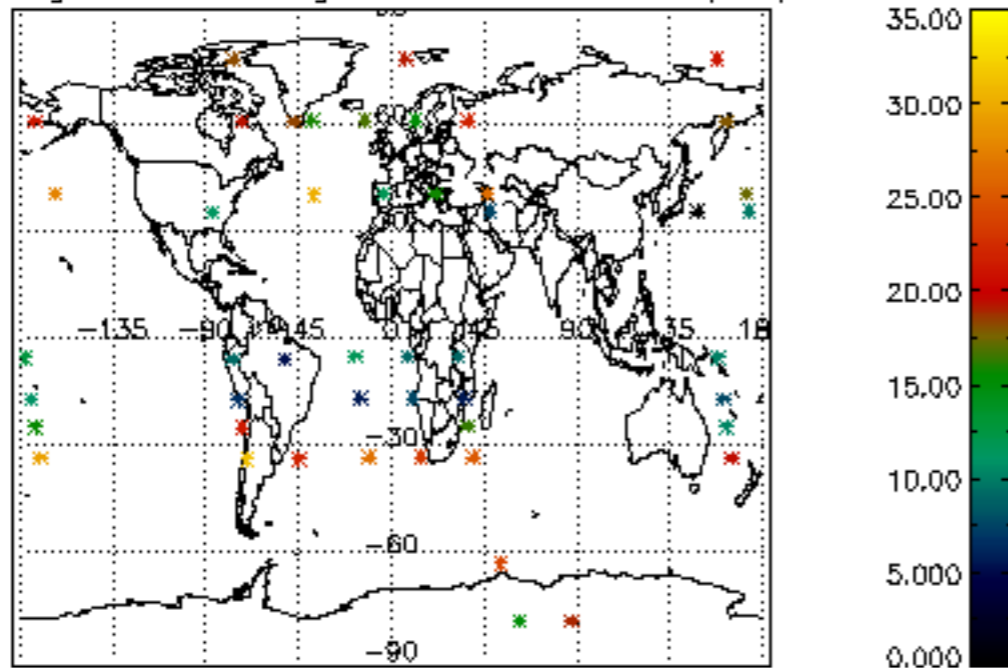
Percentage of cosmic ray hits per profile



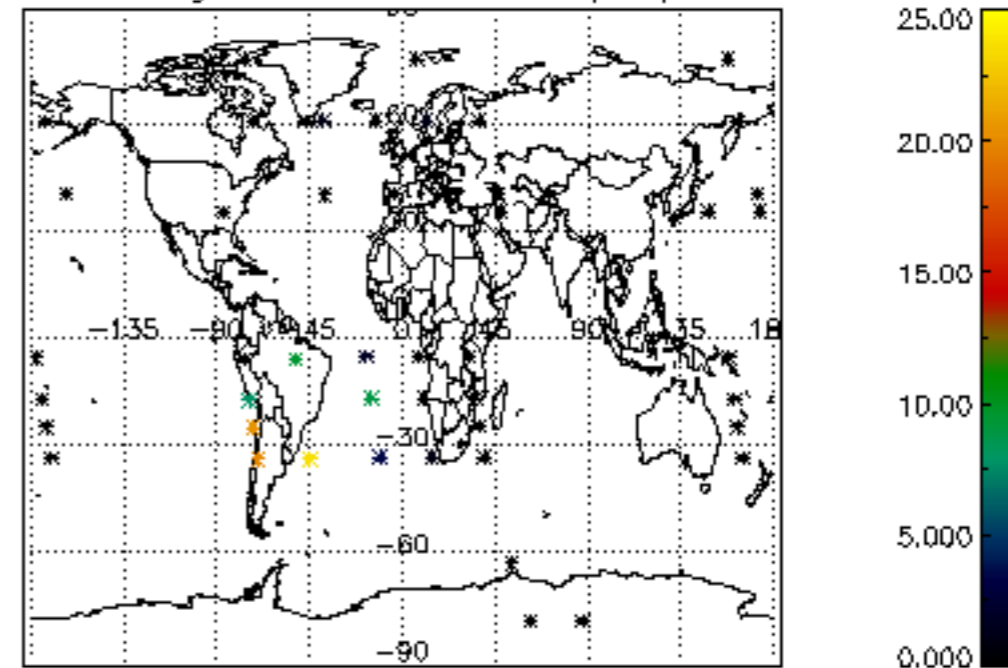
Percentage of datation errors per profile



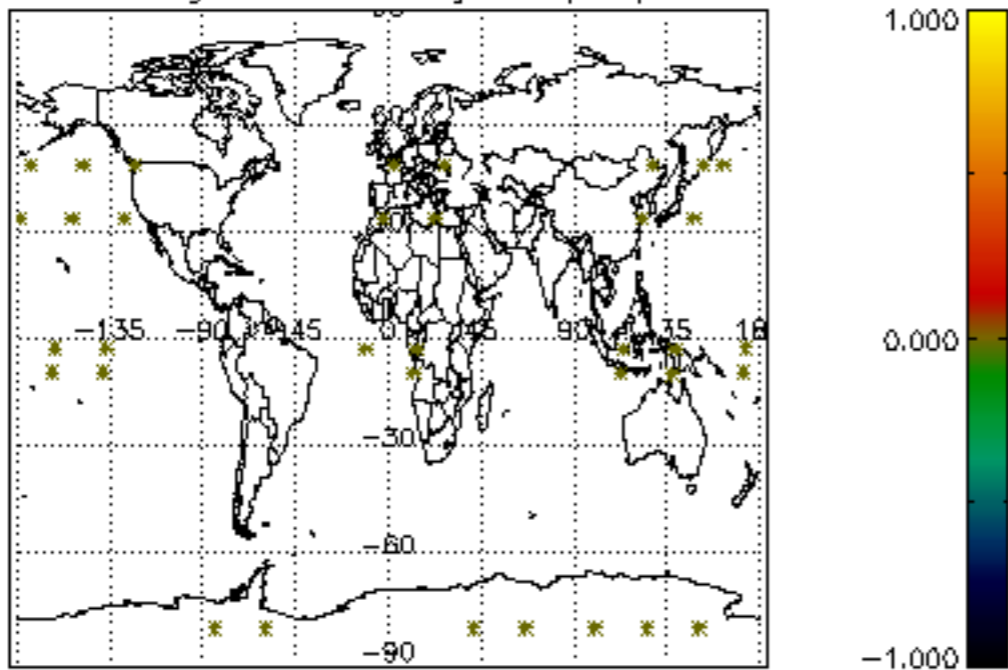
Percentage of star falling outside central band per profile



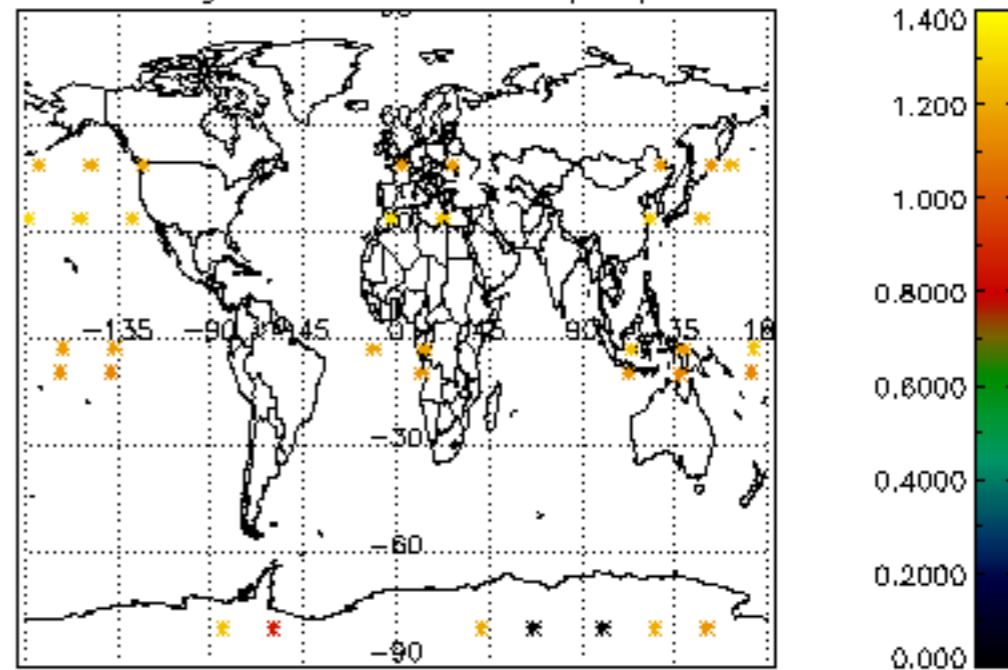
Percentage of saturation errors per profile



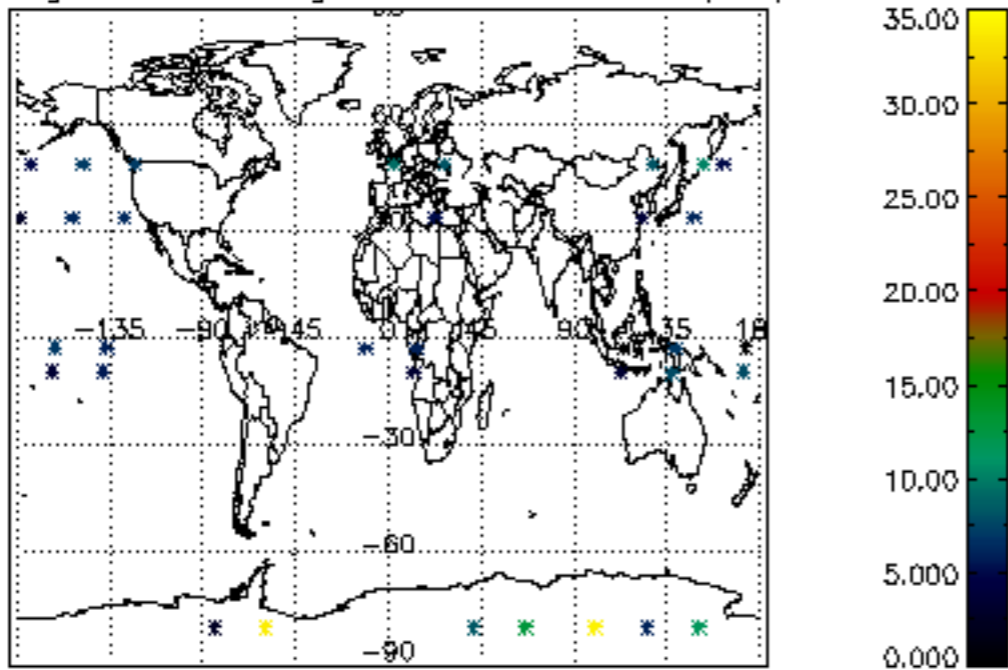
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

