

GOMOS Level 2 Daily Report

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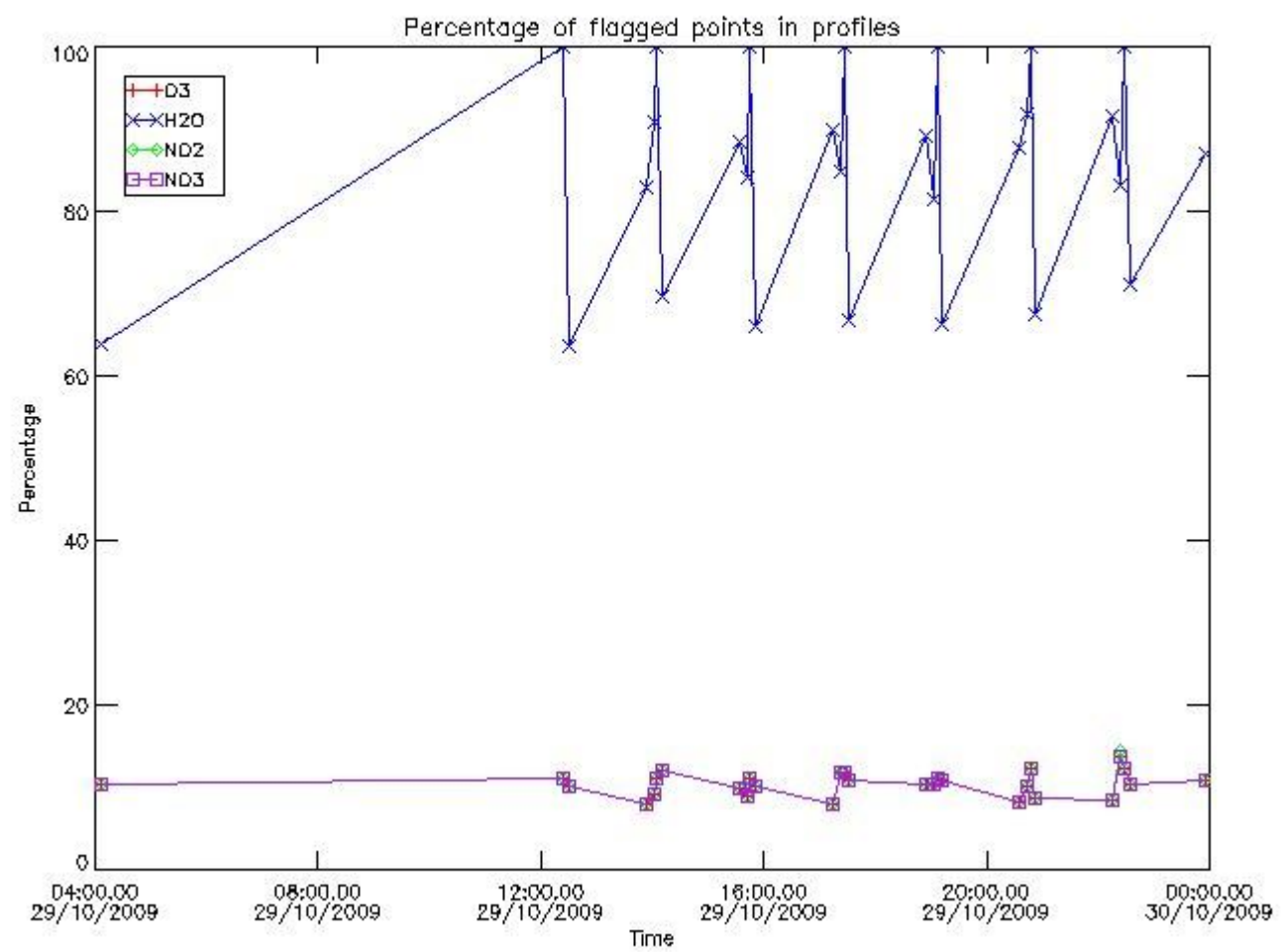
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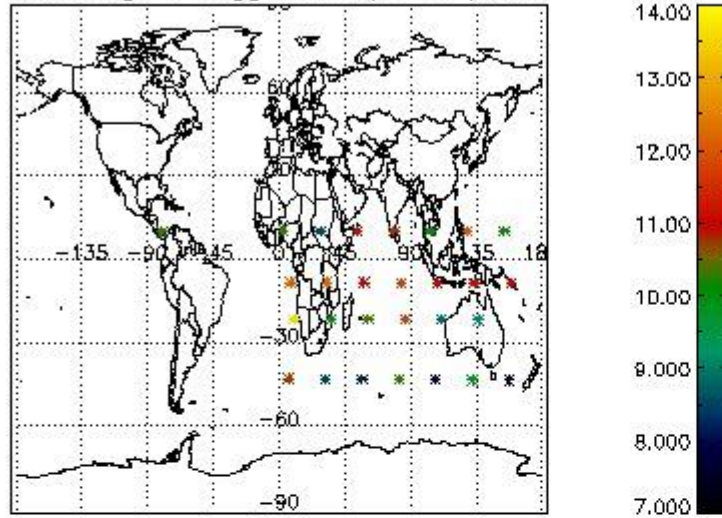
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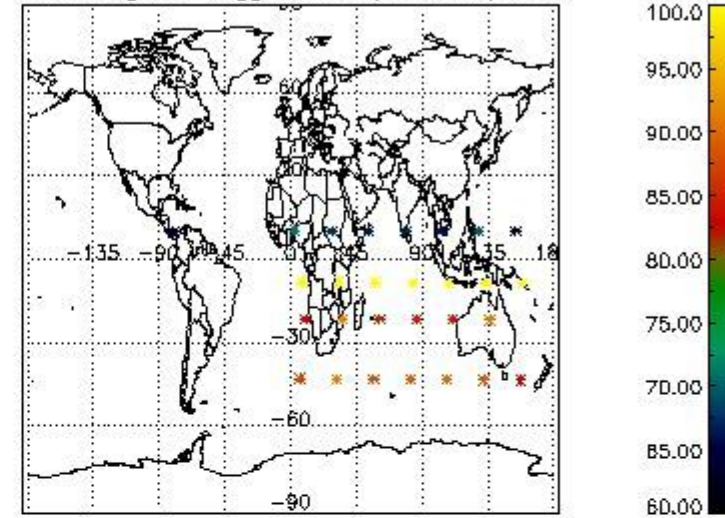


3.2 Plot quality information per product (world map)

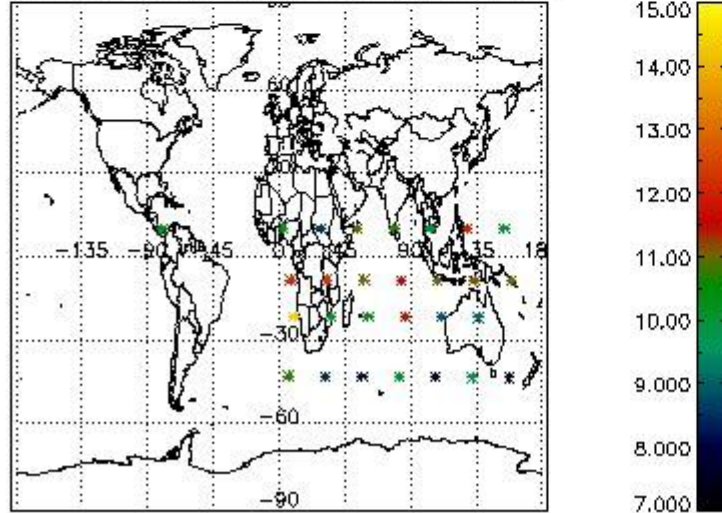
Percentage of flagged data per O3 profile



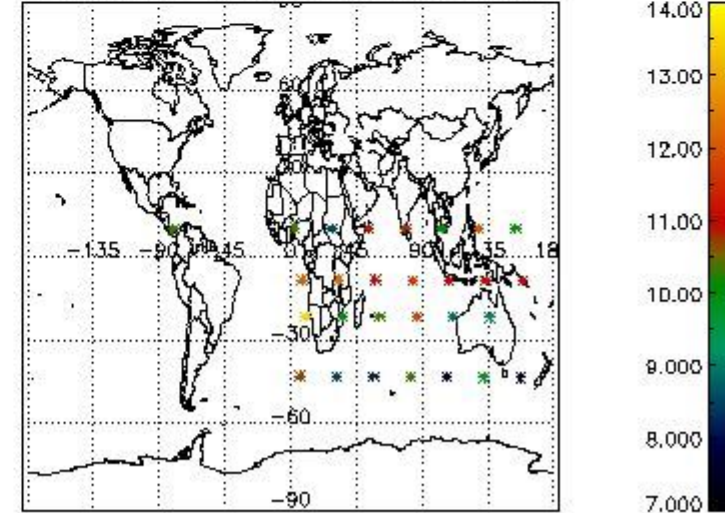
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

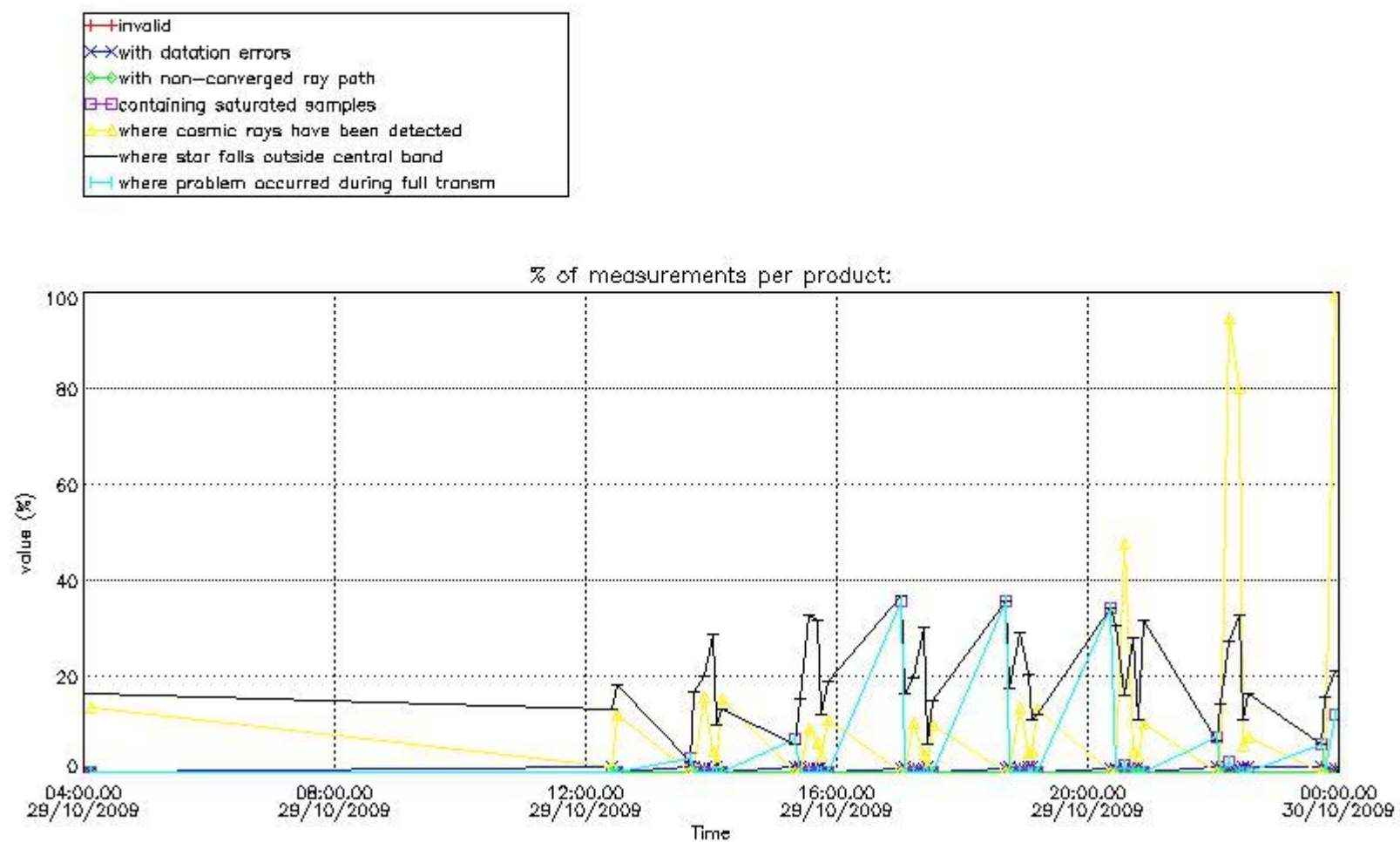


4. Level 1 quality information per product

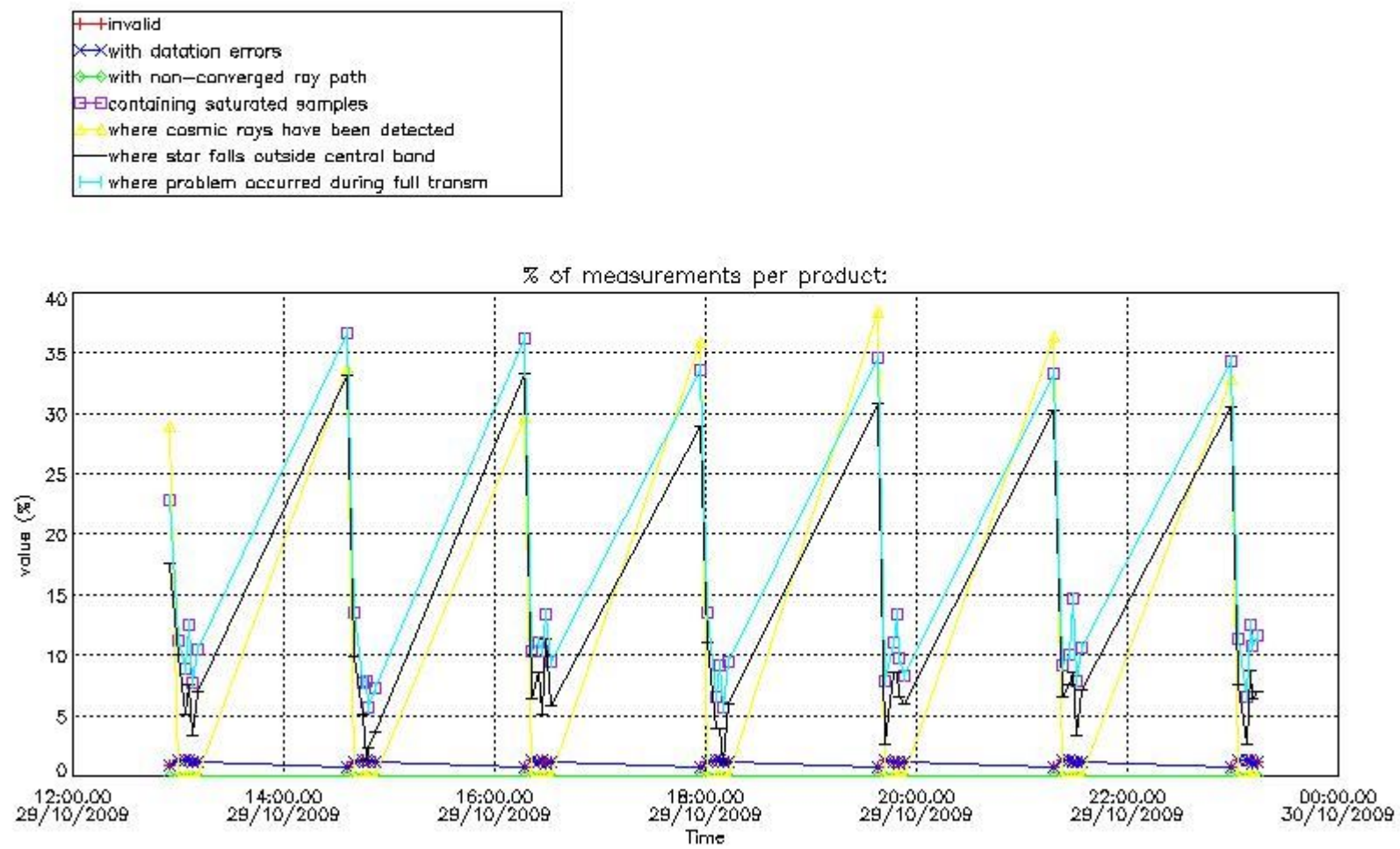
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



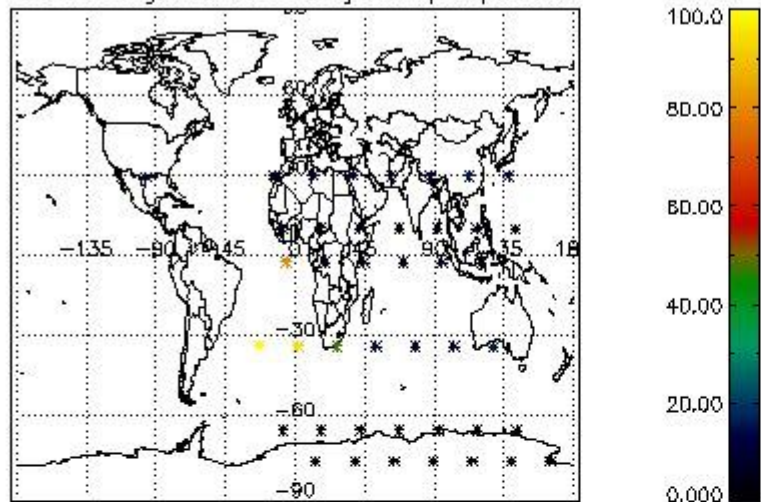
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



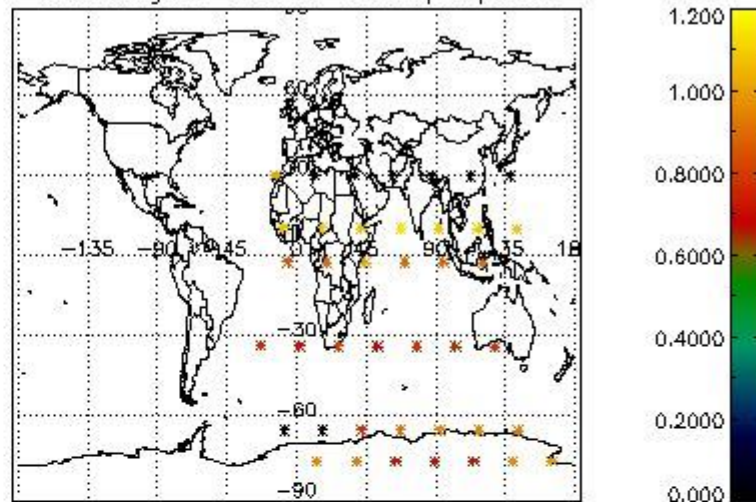
4.2 Plot quality information per product coming from level 1b processing (world map)

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

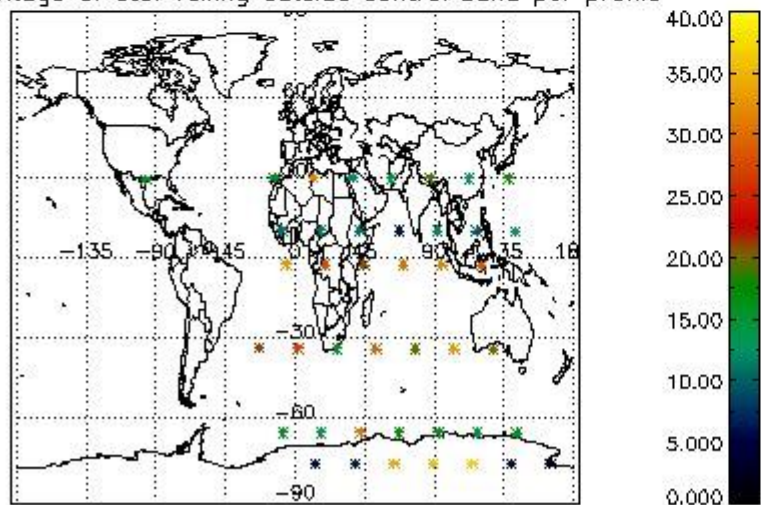
Percentage of cosmic ray hits per profile



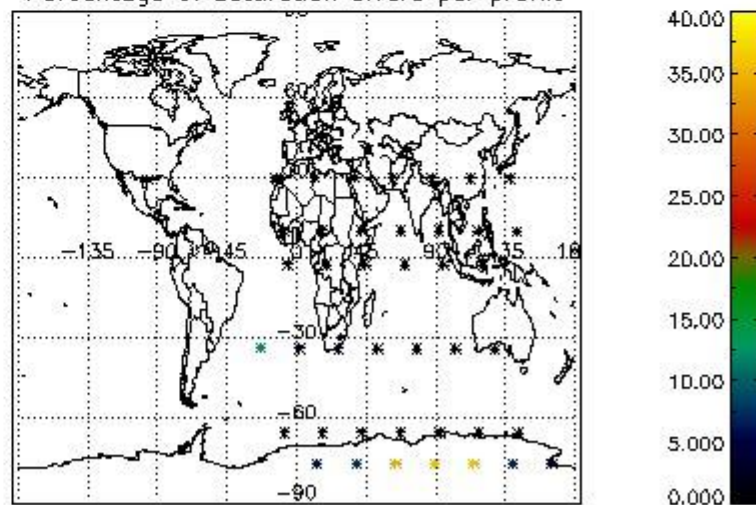
Percentage of datation errors per profile



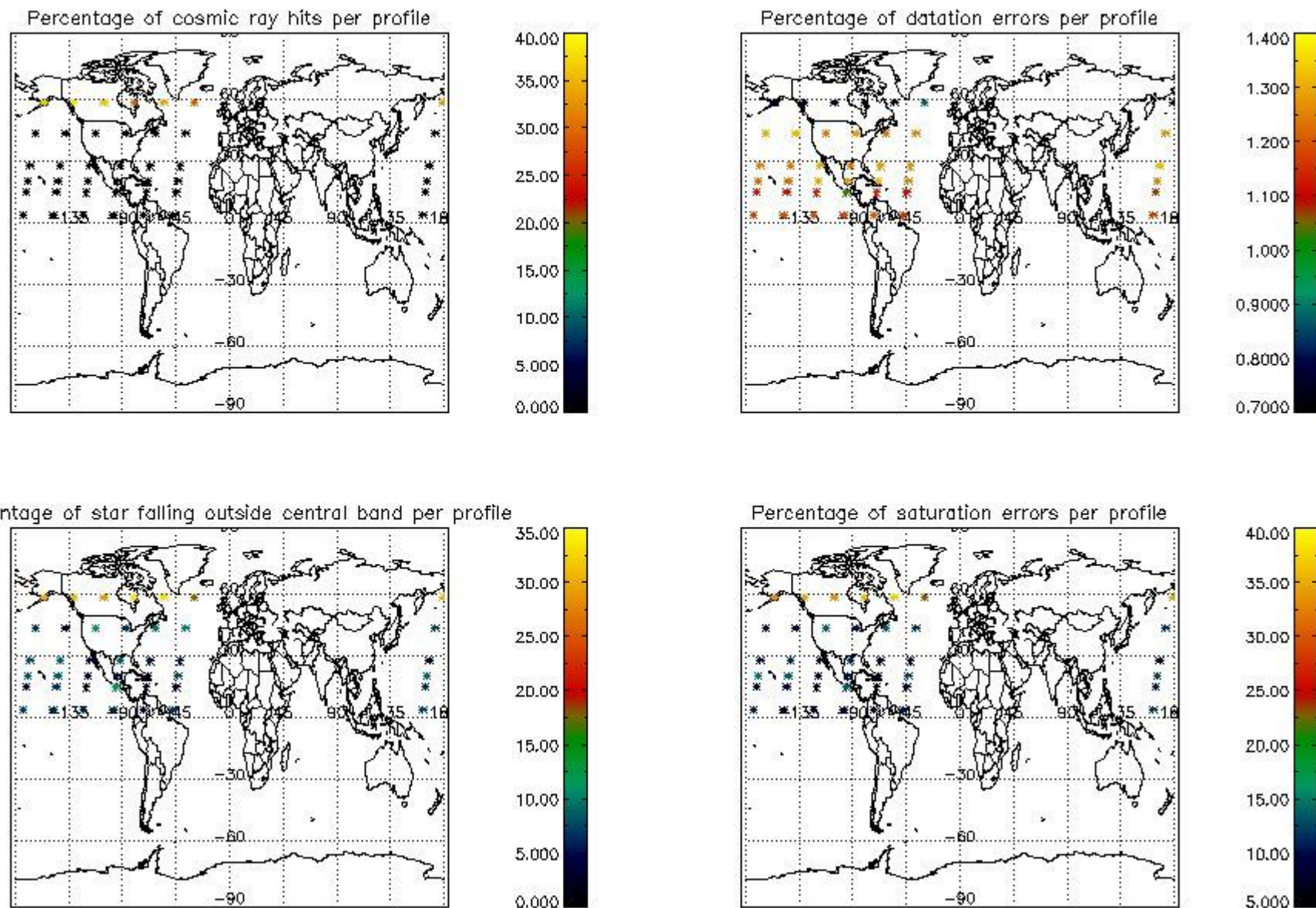
Percentage of star falling outside central band per profile



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

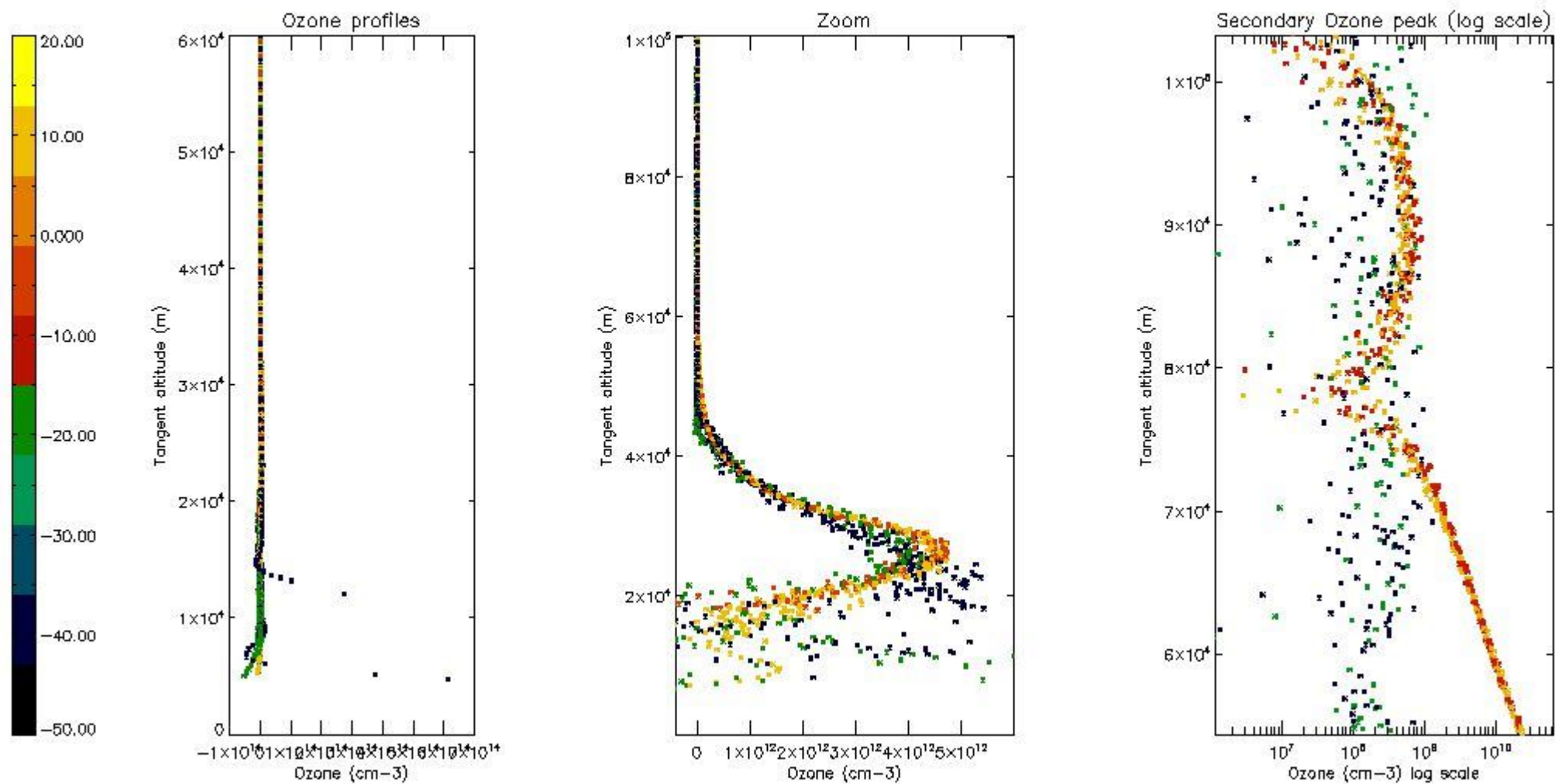
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	37
STD < 20	18

STD < 10	15
STD < 5	10

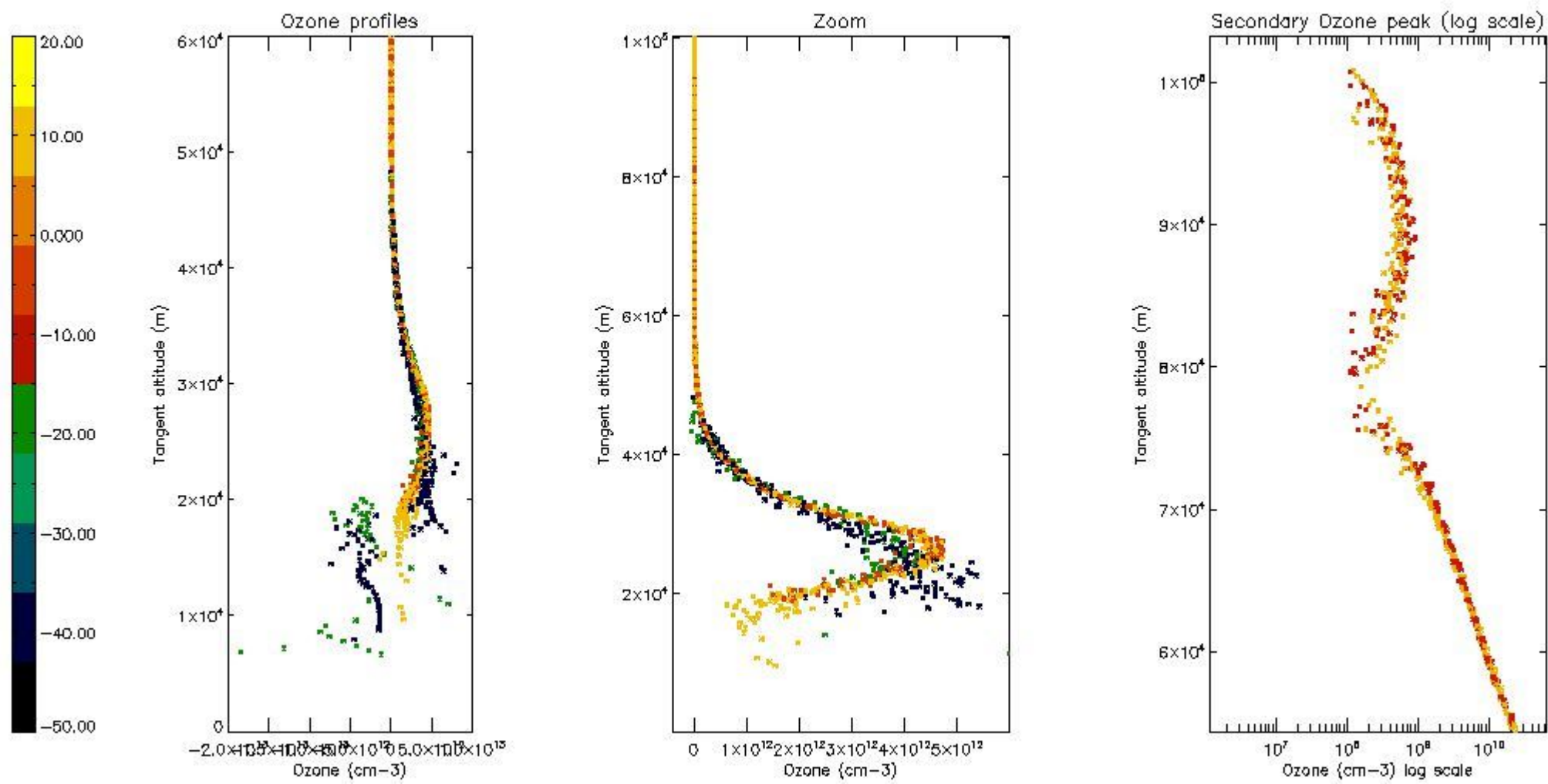
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



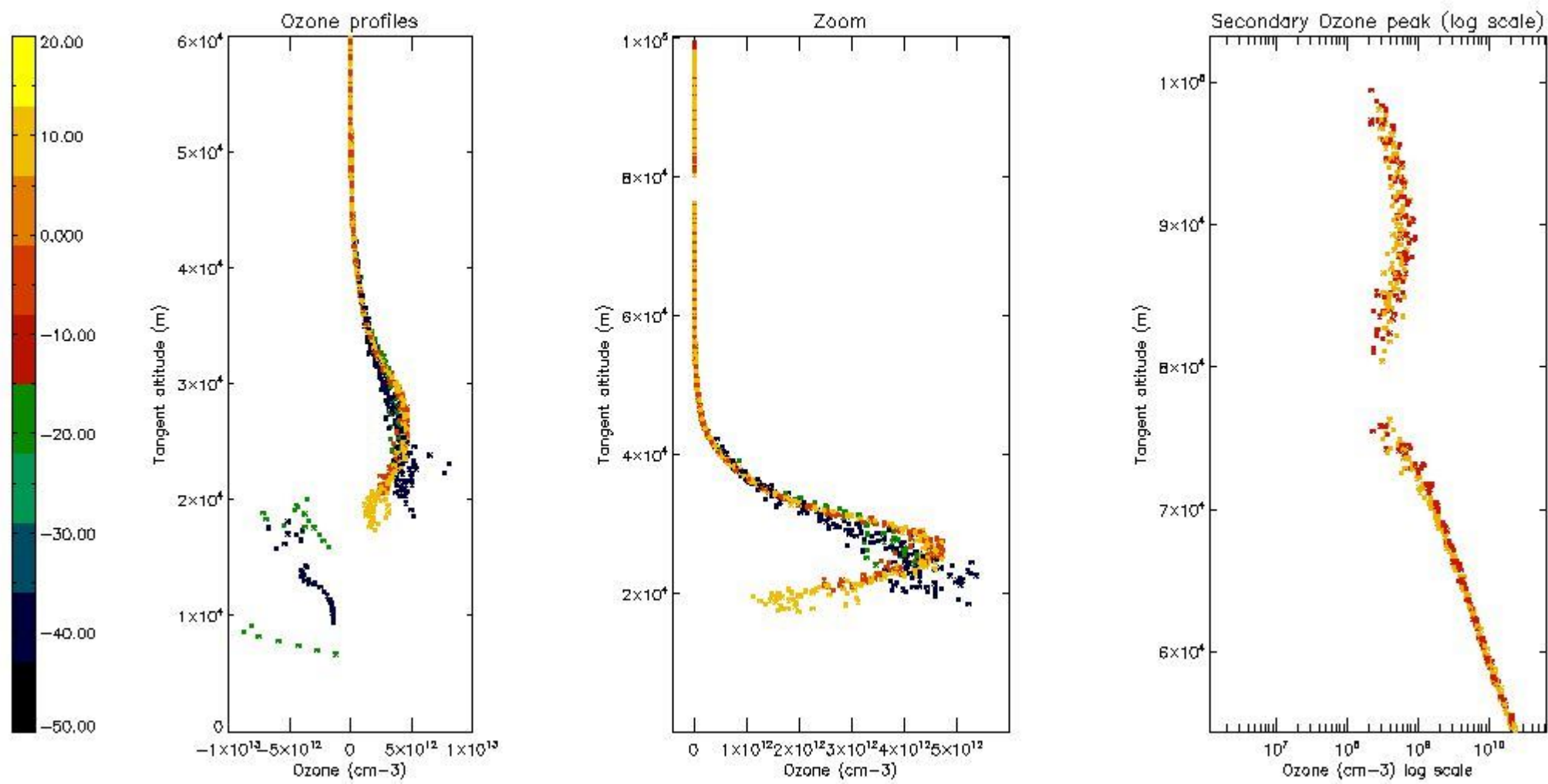
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



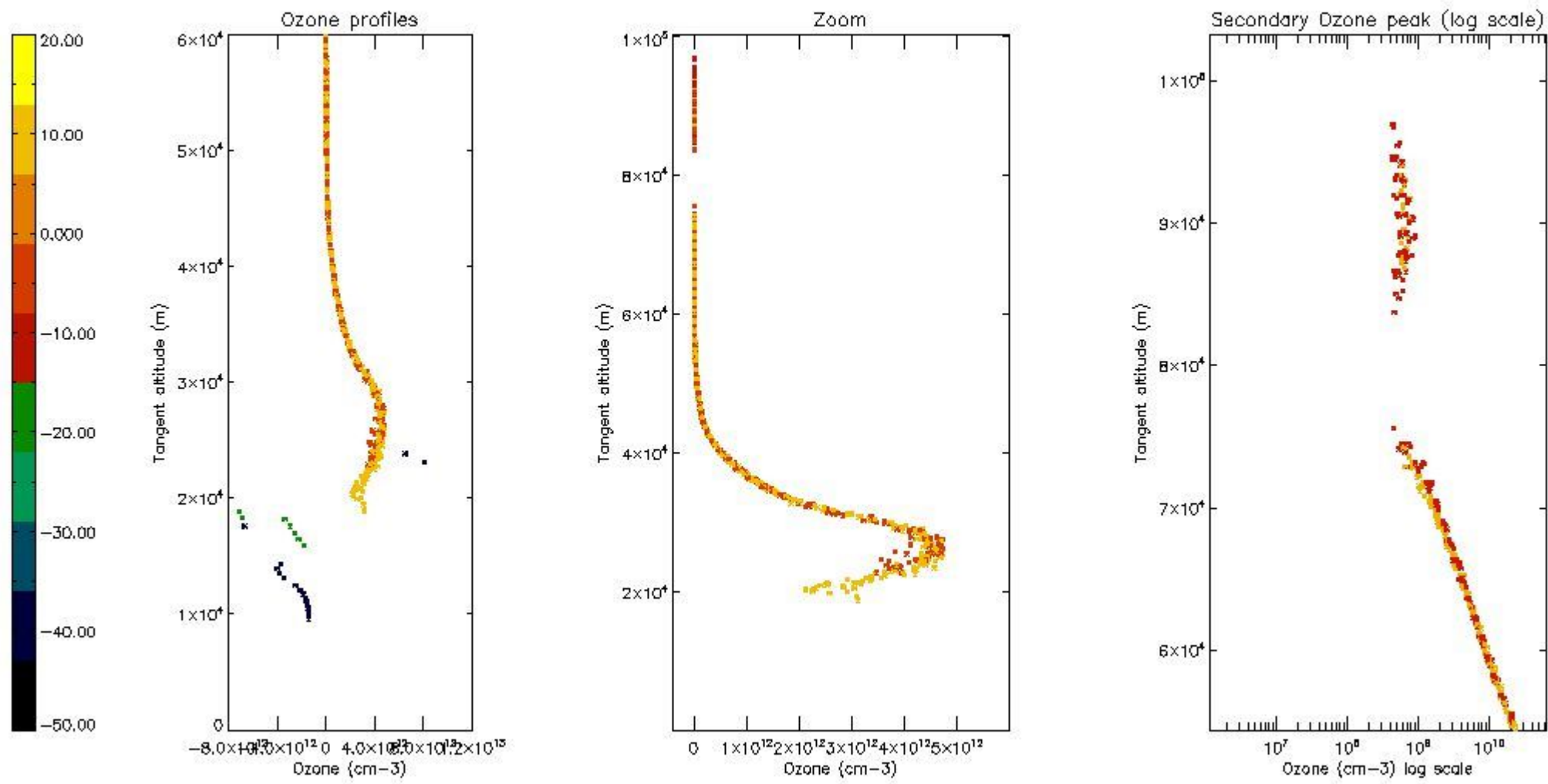
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



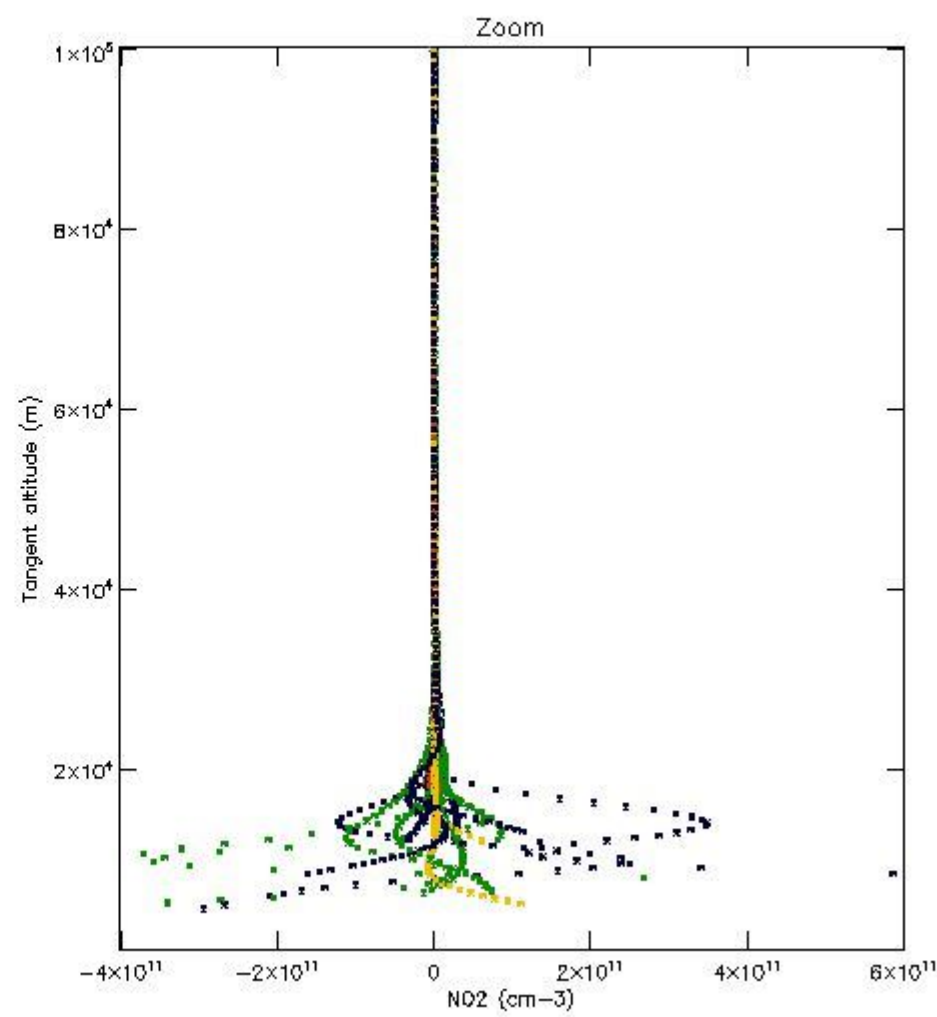
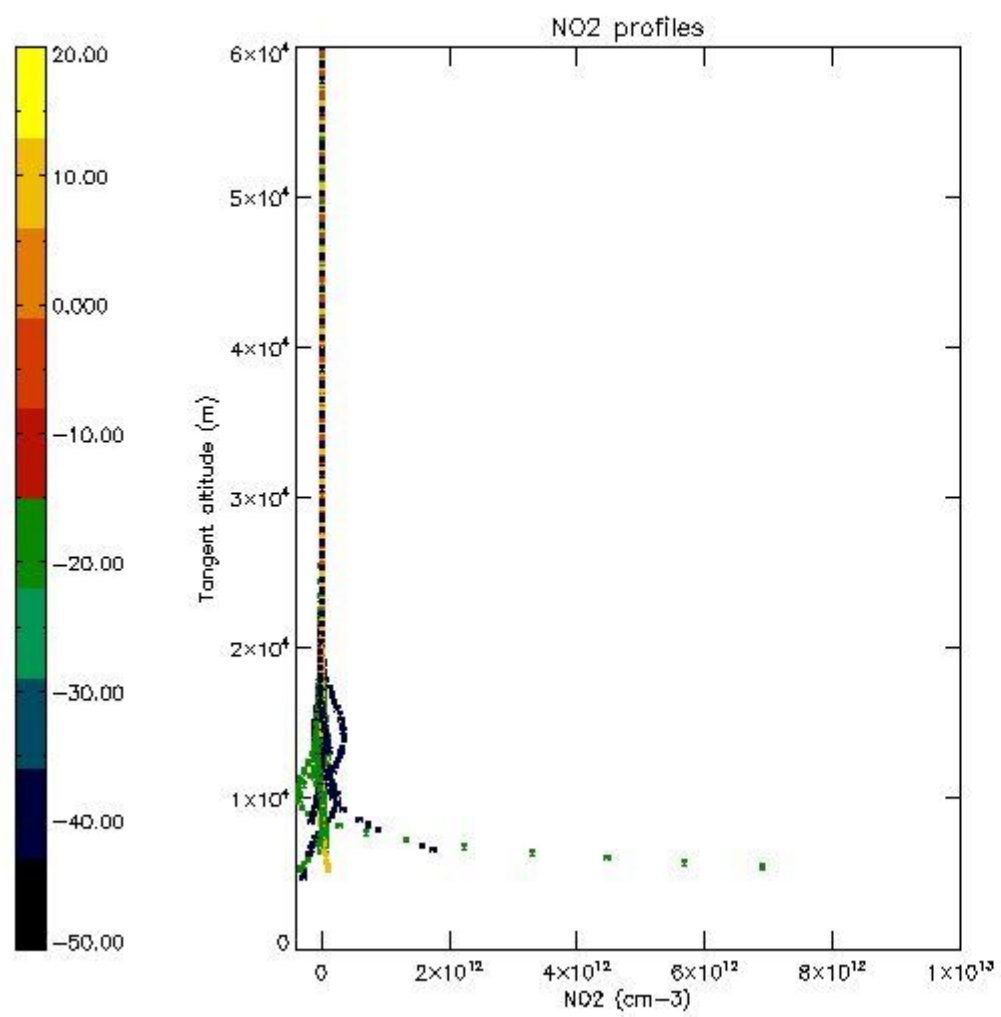
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



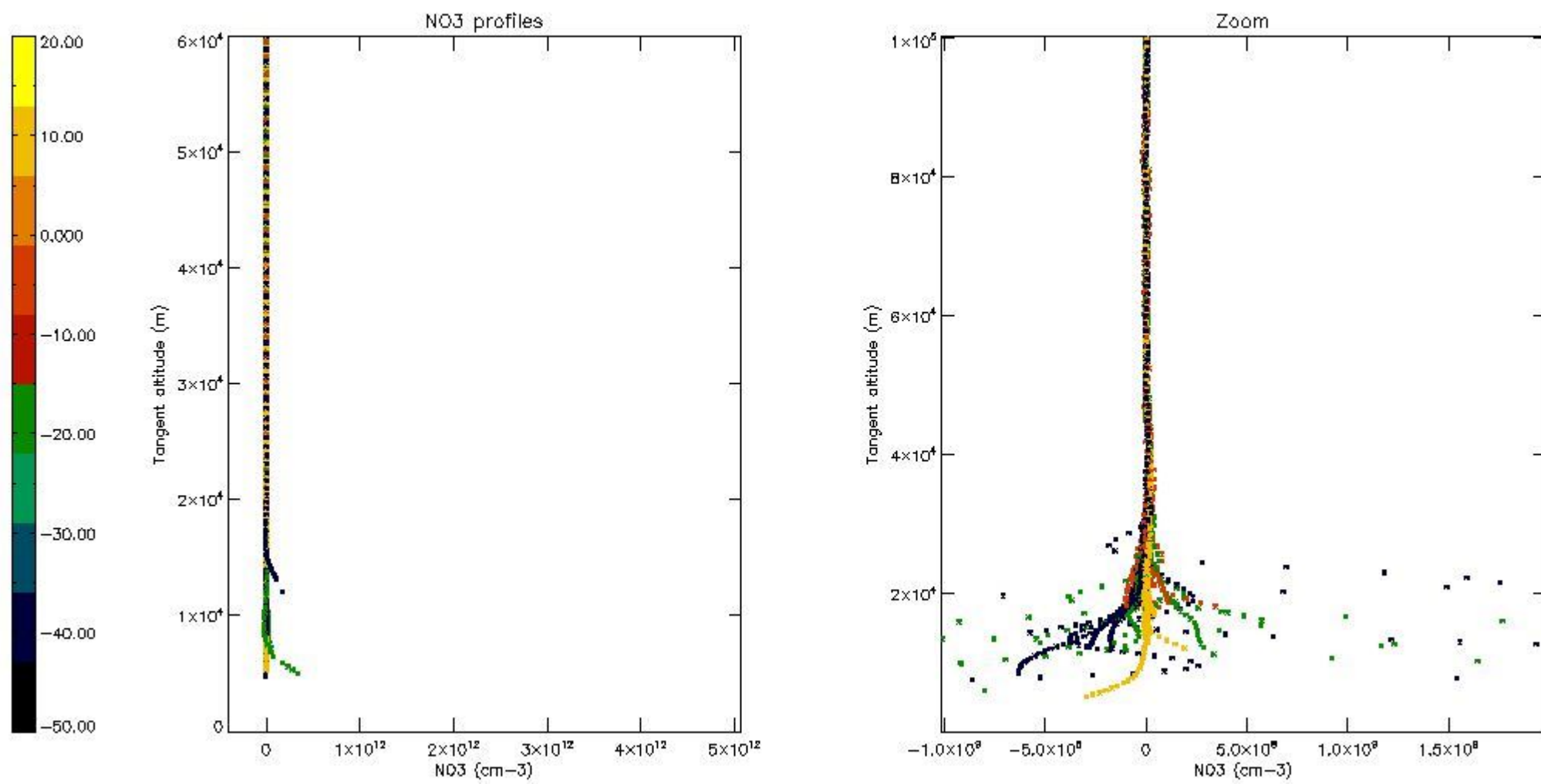
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



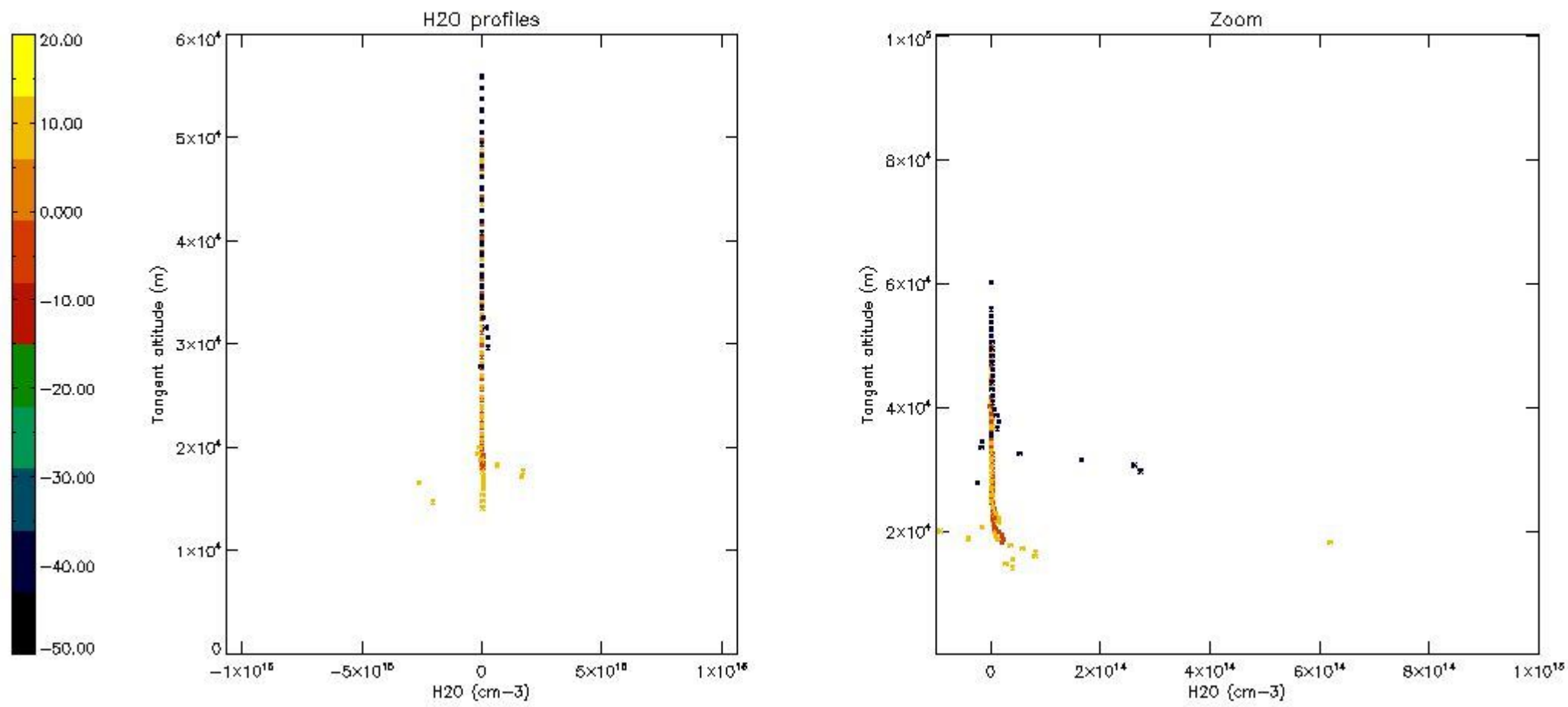
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



5.8 Plot H2O profiles for all STD (only for occultations of stars 1,2,3,4,13,14,16,26,63 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	29-OCT-2009 04:06:54
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	29-OCT-2009 04:06:54
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	29-OCT-2009 04:06:54

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[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 13:29:07
Data source version	GOMOS/6.01
Start time of products	29-10-2009 (29OCT2009 00:00:00)
Stop time of products	30-10-2009 (30OCT2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	84
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

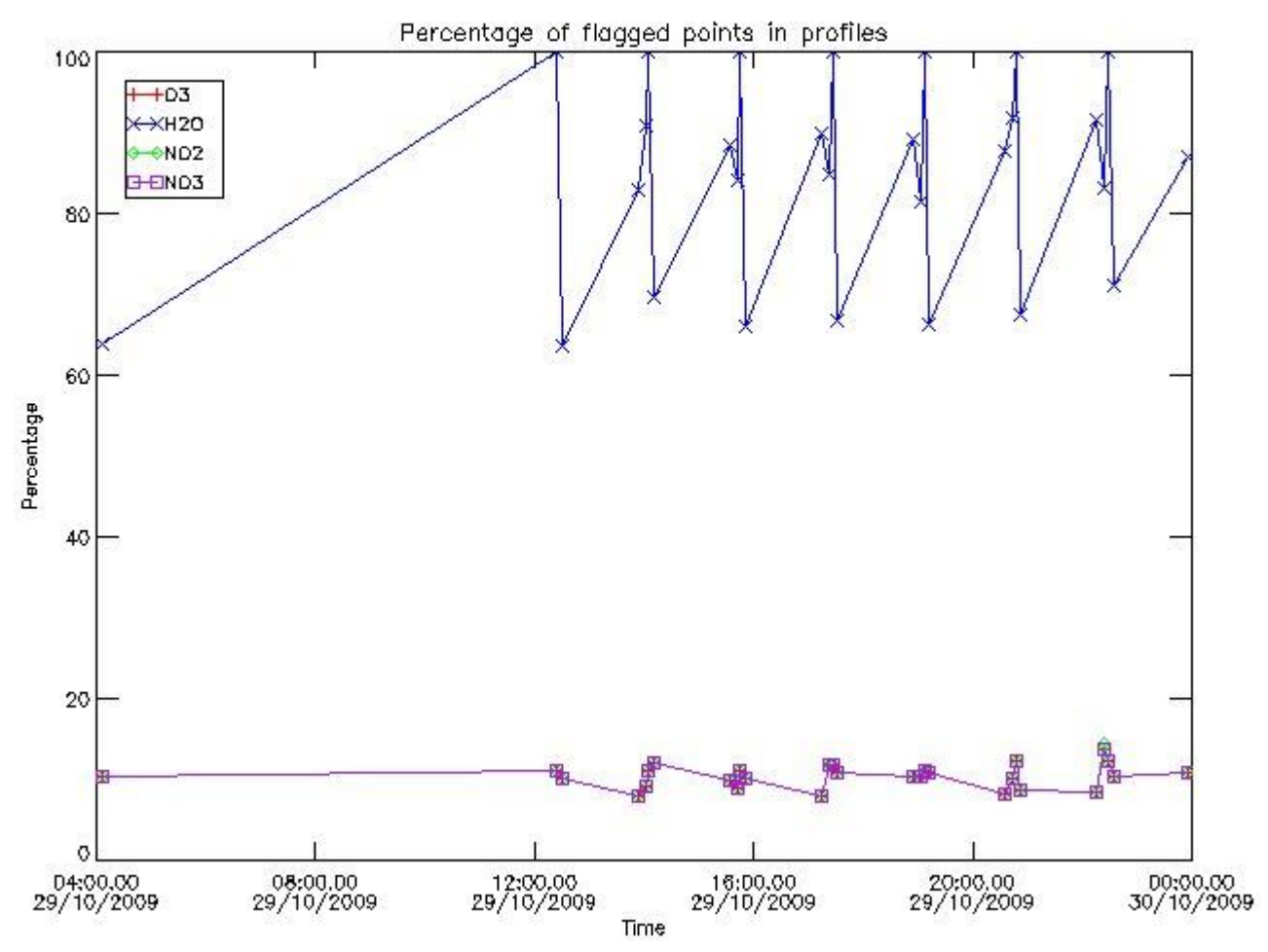
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20091029_040654_000000492083_00434_40067_7077.N1	29-OCT-2009 04:06:54	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	40067	No
2	GOM_NL__2PRFIN20091029_122426_000000462083_00439_40072_7132.N1	29-OCT-2009 12:24:26	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	40072	No
3	GOM_NL__2PRFIN20091029_122957_000000502083_00439_40072_7133.N1	29-OCT-2009 12:29:57	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	40072	No
4	GOM_NL__2PRFIN20091029_125524_000000572083_00439_40072_7134.N1	29-OCT-2009 12:55:24	Bright	57.000	94	92Alp Cet	2.5260	3100.0	114	40072	No
5	GOM_NL__2PRFIN20091029_125941_000000402083_00439_40072_7135.N1	29-OCT-2009 12:59:41	Bright	40.000	105	6Bet Ari	2.6450	8900.0	80	40072	No
6	GOM_NL__2PRFIN20091029_130412_000000402083_00439_40072_7136.N1	29-OCT-2009 13:04:12	Bright	39.500	173	4Bet Tri	3.0040	8900.0	79	40072	No
7	GOM_NL__2PRFIN20091029_130613_000000402083_00439_40072_7137.N1	29-OCT-2009 13:06:13	Bright	40.000	73	57Gam1And	2.2600	13100.	80	40072	No
8	GOM_NL__2PRFIN20091029_130748_000000452083_00439_40072_7138.N1	29-OCT-2009 13:07:48	Bright	45.000	79	26Bet Per	2.3100	13100.	90	40072	No
9	GOM_NL__2PRFIN20091029_131054_000000432083_00439_40072_7139.N1	29-OCT-2009 13:10:54	Bright	43.000	160	23Gam Per	2.9300	4700.0	86	40072	No
10	GOM_NL__2PRFIN20091029_133956_000000502083_00439_40072_7140.N1	29-OCT-2009 13:39:56	Bright	50.000	166	17Eps Leo	2.9800	6000.0	100	40072	No
11	GOM_NL__2PRFIN20091029_134338_000000542083_00439_40072_7141.N1	29-OCT-2009 13:43:38	Bright	54.000	22	32Alp Leo	1.3600	15200.	108	40072	No
12	GOM_NL__2PRFIN20091029_135238_000000652083_00439_40072_7142.N1	29-OCT-2009 13:52:38	Dark	64.500	48	30Alp Hya	1.9770	4100.0	129	40072	No
13	GOM_NL__2PRFIN20091029_140129_000000562083_00439_40072_7143.N1	29-OCT-2009 14:01:29	Dark	55.500	65	Lam Vel	2.2040	4400.0	111	40072	No
14	GOM_NL__2PRFIN20091029_140503_000000462083_00440_40073_7143.N1	29-OCT-2009 14:05:03	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	40073	No
15	GOM_NL__2PRFIN20091029_141035_000000462083_00440_40073_7144.N1	29-OCT-2009 14:10:35	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	40073	No
16	GOM_NL__2PRFIN20091029_143559_000000702083_00440_40073_7145.N1	29-OCT-2009 14:35:59	Bright	69.500	94	92Alp Cet	2.5260	3100.0	139	40073	No
17	GOM_NL__2PRFIN20091029_144017_000000412083_00440_40073_7146.N1	29-OCT-2009 14:40:17	Bright	40.500	105	6Bet Ari	2.6450	8900.0	81	40073	No
18	GOM_NL__2PRFIN20091029_144447_000000392083_00440_40073_7147.N1	29-OCT-2009 14:44:47	Bright	39.000	173	4Bet Tri	3.0040	8900.0	78	40073	No
19	GOM_NL__2PRFIN20091029_144649_000000382083_00440_40073_7148.N1	29-OCT-2009 14:46:49	Bright	38.000	73	57Gam1And	2.2600	13100.	76	40073	No
20	GOM_NL__2PRFIN20091029_144823_000000442083_00440_40073_7149.N1	29-OCT-2009 14:48:23	Bright	44.000	79	26Bet Per	2.3100	13100.	88	40073	No
21	GOM_NL__2PRFIN20091029_145130_000000422083_00440_40073_7150.N1	29-OCT-2009 14:51:30	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	40073	No
22	GOM_NL__2PRFIN20091029_152033_000000522083_00440_40073_7151.N1	29-OCT-2009 15:20:33	Bright	52.000	166	17Eps Leo	2.9800	6000.0	104	40073	No
23	GOM_NL__2PRFIN20091029_152415_000000532083_00440_40073_7152.N1	29-OCT-2009 15:24:15	Bright	52.500	22	32Alp Leo	1.3600	15200.	105	40073	No
24	GOM_NL__2PRFIN20091029_153315_000000782083_00440_40073_7153.N1	29-OCT-2009 15:33:15	Dark	77.500	48	30Alp Hya	1.9770	4100.0	155	40073	No
25	GOM_NL__2PRFIN20091029_154205_000000572083_00440_40073_7154.N1	29-OCT-2009 15:42:05	Dark	57.000	65	Lam Vel	2.2040	4400.0	114	40073	No
26	GOM_NL__2PRFIN20091029_154540_000000462083_00441_40074_7168.N1	29-OCT-2009 15:45:40	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	40074	No
27	GOM_NL__2PRFIN20091029_155111_000000502083_00441_40074_7169.N1	29-OCT-2009 15:51:11	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	40074	No
28	GOM_NL__2PRFIN20091029_161635_000000692083_00441_40074_7170.N1	29-OCT-2009 16:16:35	Bright	69.000	94	92Alp Cet	2.5260	3100.0	138	40074	No
29	GOM_NL__2PRFIN20091029_162053_000000392083_00441_40074_7171.N1	29-OCT-2009 16:20:53	Bright	39.000	105	6Bet Ari	2.6450	8900.0	78	40074	No
30	GOM_NL__2PRFIN20091029_162523_000000412083_00441_40074_7172.N1	29-OCT-2009 16:25:23	Bright	40.500	173	4Bet Tri	3.0040	8900.0	81	40074	No
31	GOM_NL__2PRFIN20091029_162724_000000392083_00441_40074_7173.N1	29-OCT-2009 16:27:24	Bright	39.000	73	57Gam1And	2.2600	13100.	78	40074	No
32	GOM_NL__2PRFIN20091029_162859_000000492083_00441_40074_7174.N1	29-OCT-2009 16:28:59	Bright	48.500	79	26Bet Per	2.3100	13100.	97	40074	No
33	GOM_NL__2PRFIN20091029_163205_000000432083_00441_40074_7175.N1	29-OCT-2009 16:32:05	Bright	42.500	160	23Gam Per	2.9300	4700.0	85	40074	No
34	GOM_NL__2PRFIN20091029_170109_000000762083_00441_40074_7176.N1	29-OCT-2009 17:01:09	Bright	76.000	166	17Eps Leo	2.9800	6000.0	152	40074	No
35	GOM_NL__2PRFIN20091029_170452_000000532083_00441_40074_7177.N1	29-OCT-2009 17:04:52	Bright	52.500	22	32Alp Leo	1.3600	15200.	105	40074	No
36	GOM_NL__2PRFIN20091029_171352_000000642083_00441_40074_7178.N1	29-OCT-2009 17:13:52	Dark	64.000	48	30Alp Hya	1.9770	4100.0	128	40074	No
37	GOM_NL__2PRFIN20091029_172242_000000562083_00441_40074_7179.N1	29-OCT-2009 17:22:42	Dark	56.000	65	Lam Vel	2.2040	4400.0	112	40074	No
38	GOM_NL__2PRFIN20091029_172617_000000442083_00442_40075_7196.N1	29-OCT-2009 17:26:17	Dark	43.500	34	Gam2Vel	1.7930	23000.	87	40075	No
39	GOM_NL__2PRFIN20091029_173148_000000472083_00442_40075_7197.N1	29-OCT-2009 17:31:48	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	40075	No
40	GOM_NL__2PRFIN20091029_175711_000000662083_00442_40075_7198.N1	29-OCT-2009 17:57:11	Bright	65.500	94	92Alp Cet	2.5260	3100.0	131	40075	No
41	GOM_NL__2PRFIN20091029_180129_000000412083_00442_40075_7199.N1	29-OCT-2009 18:01:29	Bright	40.500	105	6Bet Ari	2.6450	8900.0	81	40075	No
42	GOM_NL__2PRFIN20091029_180559_000000392083_00442_40075_7200.N1	29-OCT-2009 18:05:59	Bright	38.500	173	4Bet Tri	3.0040	8900.0	77	40075	No

43	GOM_NL__2PRFIN20091029_180800_000000392083_00442_40075_7201.N1	29-OCT-2009 18:08:00	Bright	38.500	73	57Gam1And	2.2600	13100.	77	40075	No
44	GOM_NL__2PRFIN20091029_180934_000000442083_00442_40075_7202.N1	29-OCT-2009 18:09:34	Bright	44.000	79	26Bet Per	2.3100	13100.	88	40075	No
45	GOM_NL__2PRFIN20091029_181241_000000422083_00442_40075_7203.N1	29-OCT-2009 18:12:41	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	40075	No
46	GOM_NL__2PRFIN20091029_184146_000000762083_00442_40075_7204.N1	29-OCT-2009 18:41:46	Bright	76.000	166	17Eps Leo	2.9800	6000.0	152	40075	No
47	GOM_NL__2PRFIN20091029_184528_000000552083_00442_40075_7205.N1	29-OCT-2009 18:45:28	Bright	55.000	22	32Alp Leo	1.3600	15200.	110	40075	No
48	GOM_NL__2PRFIN20091029_185430_000000742083_00442_40075_7206.N1	29-OCT-2009 18:54:30	Dark	73.500	48	30Alp Hya	1.9770	4100.0	147	40075	No
49	GOM_NL__2PRFIN20091029_190319_000000492083_00442_40075_7207.N1	29-OCT-2009 19:03:19	Dark	49.000	65	Lam Vel	2.2040	4400.0	98	40075	No
50	GOM_NL__2PRFIN20091029_190654_000000462083_00443_40076_7207.N1	29-OCT-2009 19:06:54	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	40076	No
51	GOM_NL__2PRFIN20091029_191225_000000462083_00443_40076_7208.N1	29-OCT-2009 19:12:25	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	40076	No
52	GOM_NL__2PRFIN20091029_193746_000000672083_00443_40076_7209.N1	29-OCT-2009 19:37:46	Bright	66.500	94	92Alp Cet	2.5260	3100.0	133	40076	No
53	GOM_NL__2PRFIN20091029_194204_000000382083_00443_40076_7210.N1	29-OCT-2009 19:42:04	Bright	38.000	105	6Bet Ari	2.6450	8900.0	76	40076	No
54	GOM_NL__2PRFIN20091029_194634_000000412083_00443_40076_7211.N1	29-OCT-2009 19:46:34	Bright	40.500	173	4Bet Tri	3.0040	8900.0	81	40076	No
55	GOM_NL__2PRFIN20091029_194836_000000412083_00443_40076_7212.N1	29-OCT-2009 19:48:36	Bright	41.000	73	57Gam1And	2.2600	13100.	82	40076	No
56	GOM_NL__2PRFIN20091029_195009_000000462083_00443_40076_7213.N1	29-OCT-2009 19:50:09	Bright	46.000	79	26Bet Per	2.3100	13100.	92	40076	No
57	GOM_NL__2PRFIN20091029_195316_000000422083_00443_40076_7214.N1	29-OCT-2009 19:53:16	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	40076	No
58	GOM_NL__2PRFIN20091029_202222_000000762083_00443_40076_7215.N1	29-OCT-2009 20:22:22	Bright	76.000	166	17Eps Leo	2.9800	6000.0	152	40076	No
59	GOM_NL__2PRFIN20091029_202604_000000662083_00443_40076_7216.N1	29-OCT-2009 20:26:04	Bright	65.500	22	32Alp Leo	1.3600	15200.	131	40076	No
60	GOM_NL__2PRFIN20091029_203507_000000622083_00443_40076_7217.N1	29-OCT-2009 20:35:07	Dark	62.000	48	30Alp Hya	1.9770	4100.0	124	40076	No
61	GOM_NL__2PRFIN20091029_204356_000000562083_00443_40076_7218.N1	29-OCT-2009 20:43:56	Dark	55.500	65	Lam Vel	2.2040	4400.0	111	40076	No
62	GOM_NL__2PRFIN20091029_204730_000000462083_00444_40077_7218.N1	29-OCT-2009 20:47:30	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	40077	No
63	GOM_NL__2PRFIN20091029_205301_000000592083_00444_40077_7219.N1	29-OCT-2009 20:53:01	Dark	58.500	2	Alp Car	-0.73600	7000.0	117	40077	No
64	GOM_NL__2PRFIN20091029_211822_000000662083_00444_40077_7220.N1	29-OCT-2009 21:18:22	Bright	66.000	94	92Alp Cet	2.5260	3100.0	132	40077	No
65	GOM_NL__2PRFIN20091029_212240_000000392083_00444_40077_7221.N1	29-OCT-2009 21:22:40	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	40077	No
66	GOM_NL__2PRFIN20091029_212710_000000402083_00444_40077_7222.N1	29-OCT-2009 21:27:10	Bright	40.000	173	4Bet Tri	3.0040	8900.0	80	40077	No
67	GOM_NL__2PRFIN20091029_212911_000000412083_00444_40077_7223.N1	29-OCT-2009 21:29:11	Bright	41.000	73	57Gam1And	2.2600	13100.	82	40077	No
68	GOM_NL__2PRFIN20091029_213044_000000452083_00444_40077_7224.N1	29-OCT-2009 21:30:44	Bright	44.500	79	26Bet Per	2.3100	13100.	89	40077	No
69	GOM_NL__2PRFIN20091029_213352_000000432083_00444_40077_7225.N1	29-OCT-2009 21:33:52	Bright	42.500	160	23Gam Per	2.9300	4700.0	85	40077	No
70	GOM_NL__2PRFIN20091029_220258_000000542083_00444_40077_7226.N1	29-OCT-2009 22:02:58	Bright	54.000	166	17Eps Leo	2.9800	6000.0	108	40077	No
71	GOM_NL__2PRFIN20091029_220641_000000532083_00444_40077_7227.N1	29-OCT-2009 22:06:41	Bright	53.000	22	32Alp Leo	1.3600	15200.	106	40077	No
72	GOM_NL__2PRFIN20091029_221544_000000722083_00444_40077_7228.N1	29-OCT-2009 22:15:44	Dark	71.500	48	30Alp Hya	1.9770	4100.0	143	40077	No
73	GOM_NL__2PRFIN20091029_222432_000000602083_00444_40077_7229.N1	29-OCT-2009 22:24:32	Dark	59.500	65	Lam Vel	2.2040	4400.0	119	40077	No
74	GOM_NL__2PRFIN20091029_222807_000000462083_00445_40078_7229.N1	29-OCT-2009 22:28:07	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	40078	No
75	GOM_NL__2PRFIN20091029_223338_000000492083_00445_40078_7230.N1	29-OCT-2009 22:33:38	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	40078	No
76	GOM_NL__2PRFIN20091029_225857_000000672083_00445_40078_7231.N1	29-OCT-2009 22:58:57	Bright	67.000	94	92Alp Cet	2.5260	3100.0	134	40078	No
77	GOM_NL__2PRFIN20091029_230316_000000402083_00445_40078_7232.N1	29-OCT-2009 23:03:16	Bright	39.500	105	6Bet Ari	2.6450	8900.0	79	40078	No
78	GOM_NL__2PRFIN20091029_230745_000000382083_00445_40078_7233.N1	29-OCT-2009 23:07:45	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	40078	No
79	GOM_NL__2PRFIN20091029_230947_000000402083_00445_40078_7234.N1	29-OCT-2009 23:09:47	Bright	40.000	73	57Gam1And	2.2600	13100.	80	40078	No
80	GOM_NL__2PRFIN20091029_231119_000000472083_00445_40078_7235.N1	29-OCT-2009 23:11:19	Bright	46.500	79	26Bet Per	2.3100	13100.	93	40078	No
81	GOM_NL__2PRFIN20091029_231427_000000432083_00445_40078_7236.N1	29-OCT-2009 23:14:27	Bright	43.000	160	23Gam Per	2.9300	4700.0	86	40078	No
82	GOM_NL__2PRFIN20091029_234334_000000532083_00445_40078_7237.N1	29-OCT-2009 23:43:34	Bright	52.500	166	17Eps Leo	2.9800	6000.0	105	40078	No
83	GOM_NL__2PRFIN20091029_234717_000000542083_00445_40078_7238.N1	29-OCT-2009 23:47:17	Bright	54.000	22	32Alp Leo	1.3600	15200.	108	40078	No
84	GOM_NL__2PRFIN20091029_235621_000000662083_00445_40078_7239.N1	29-OCT-2009 23:56:21	Dark	66.000	48	30Alp Hya	1.9770	4100.0	132	40078	No

3. Quality information per product

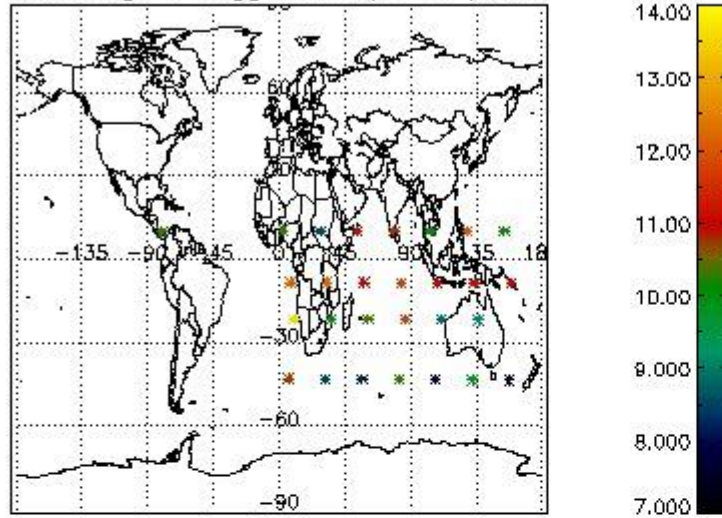
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

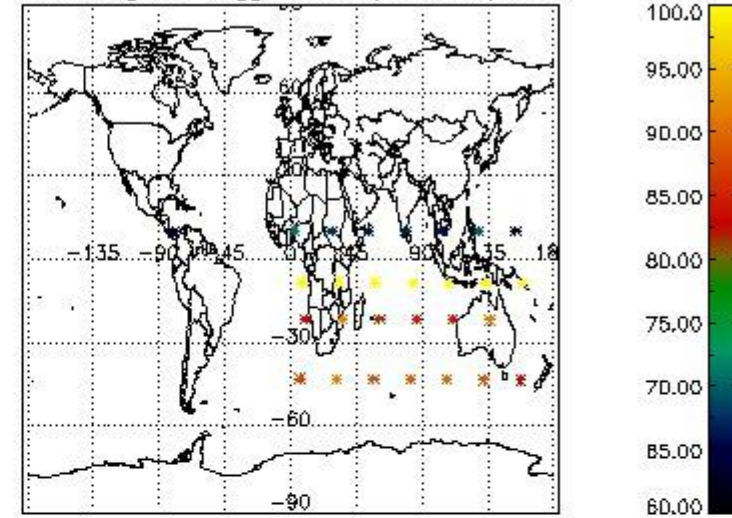


3.2 Plot quality information per product (world map)

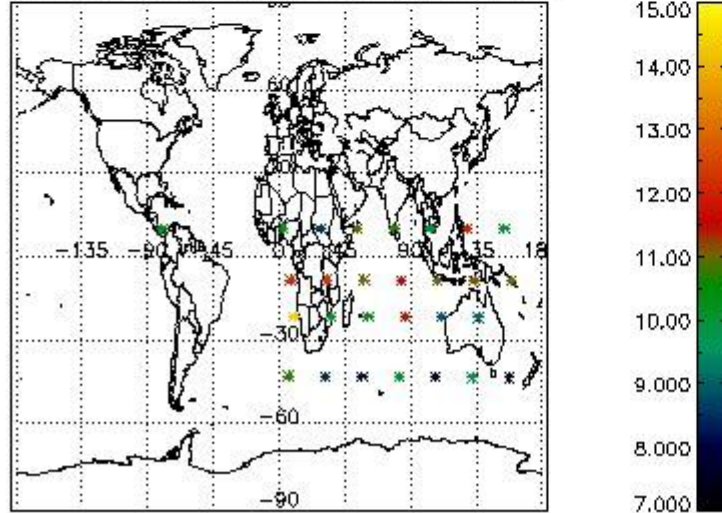
Percentage of flagged data per O3 profile



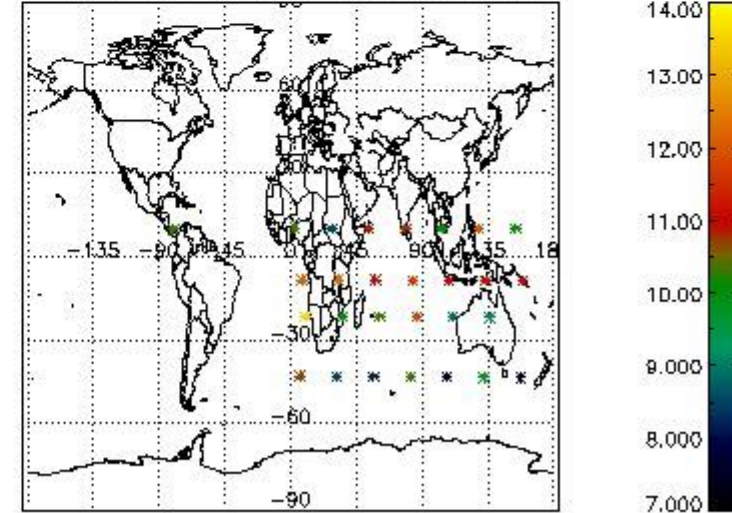
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

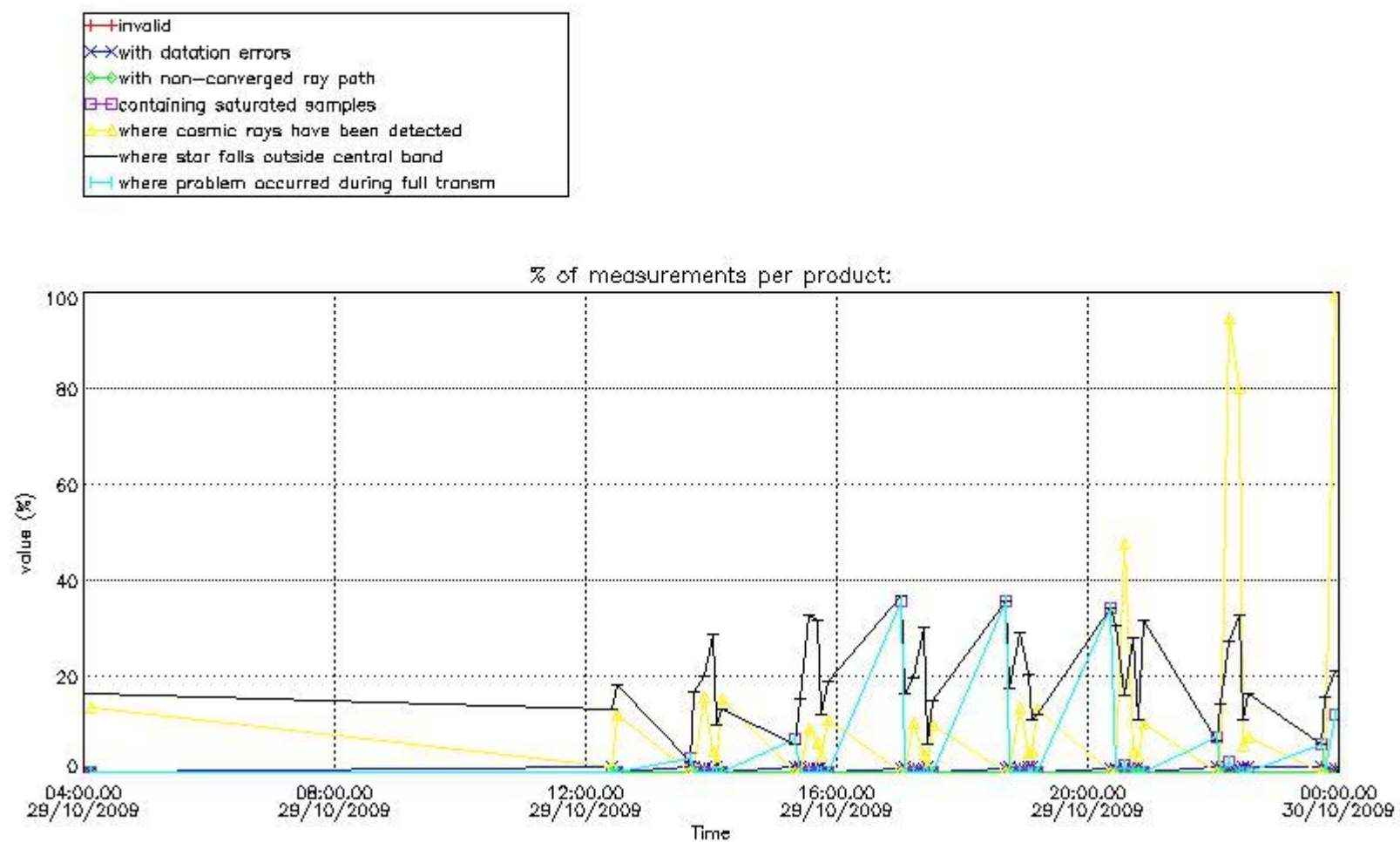


4. Level 1 quality information per product

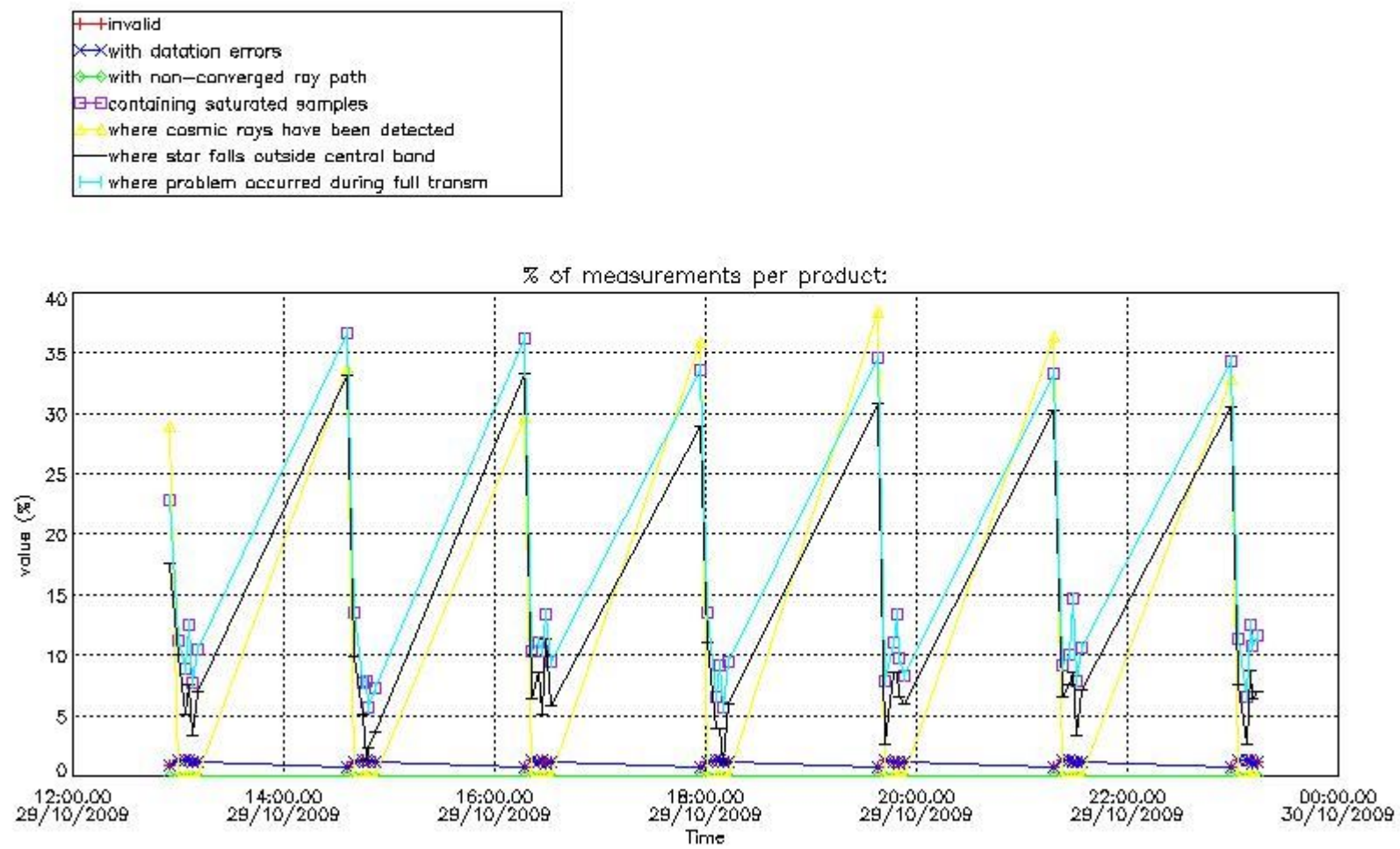
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



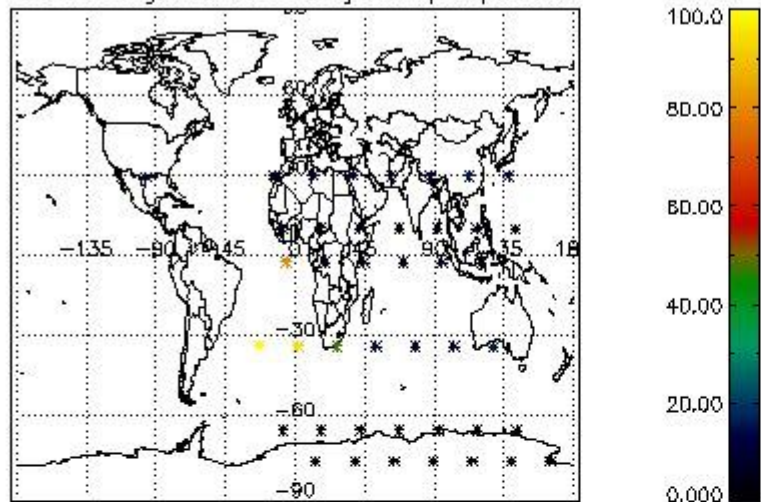
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



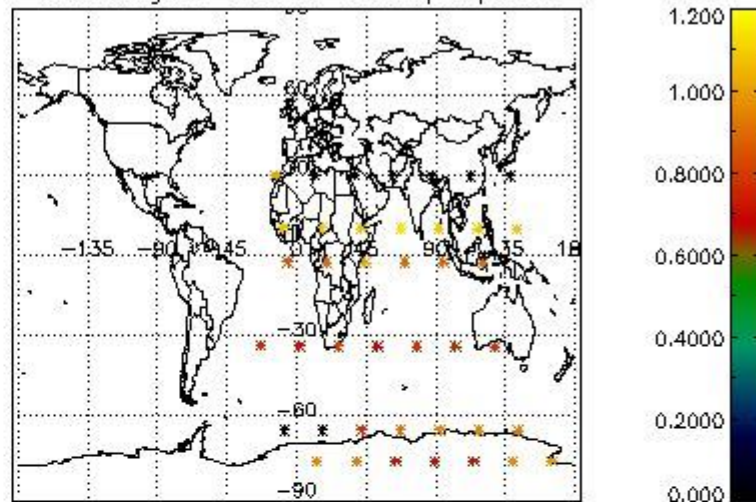
4.2 Plot quality information per product coming from level 1b processing (world map)

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

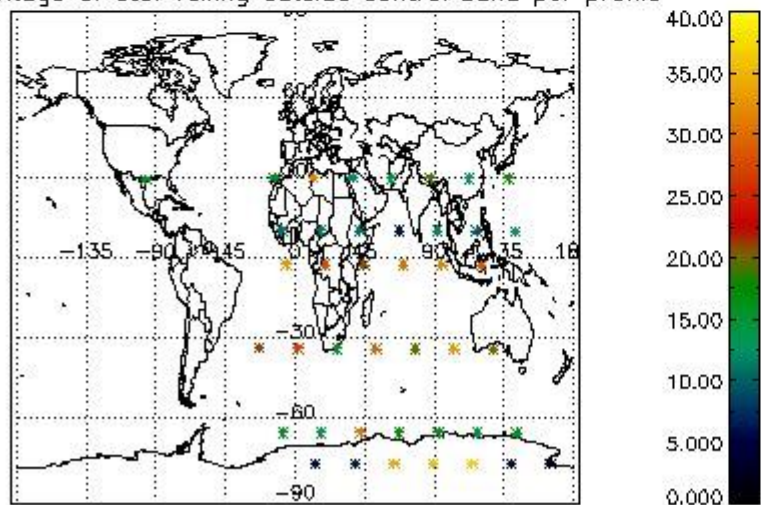
Percentage of cosmic ray hits per profile



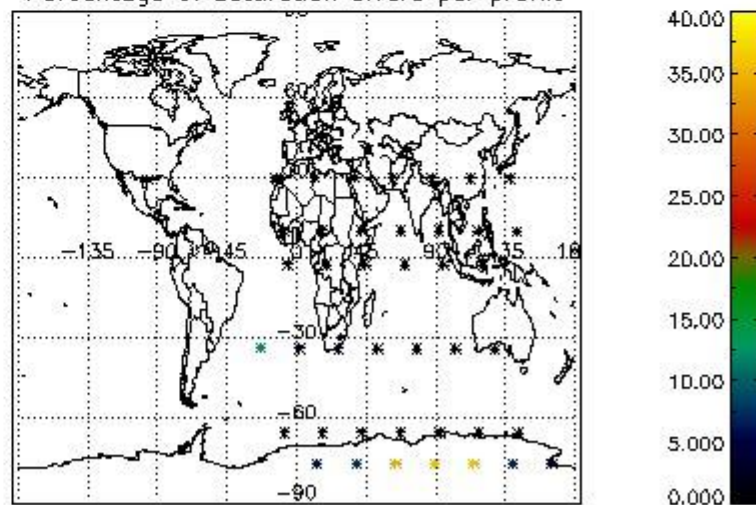
Percentage of datation errors per profile



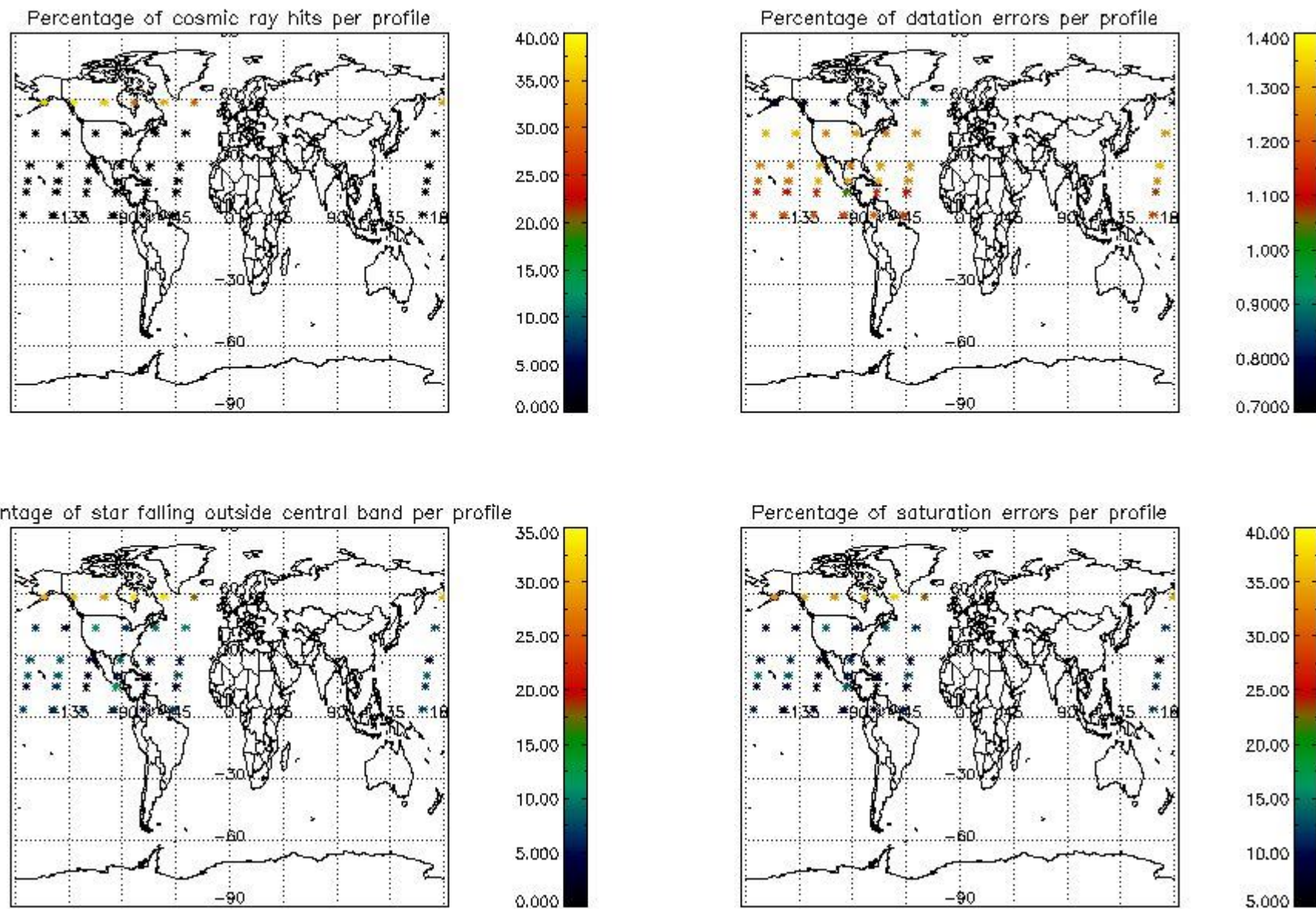
Percentage of star falling outside central band per profile



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

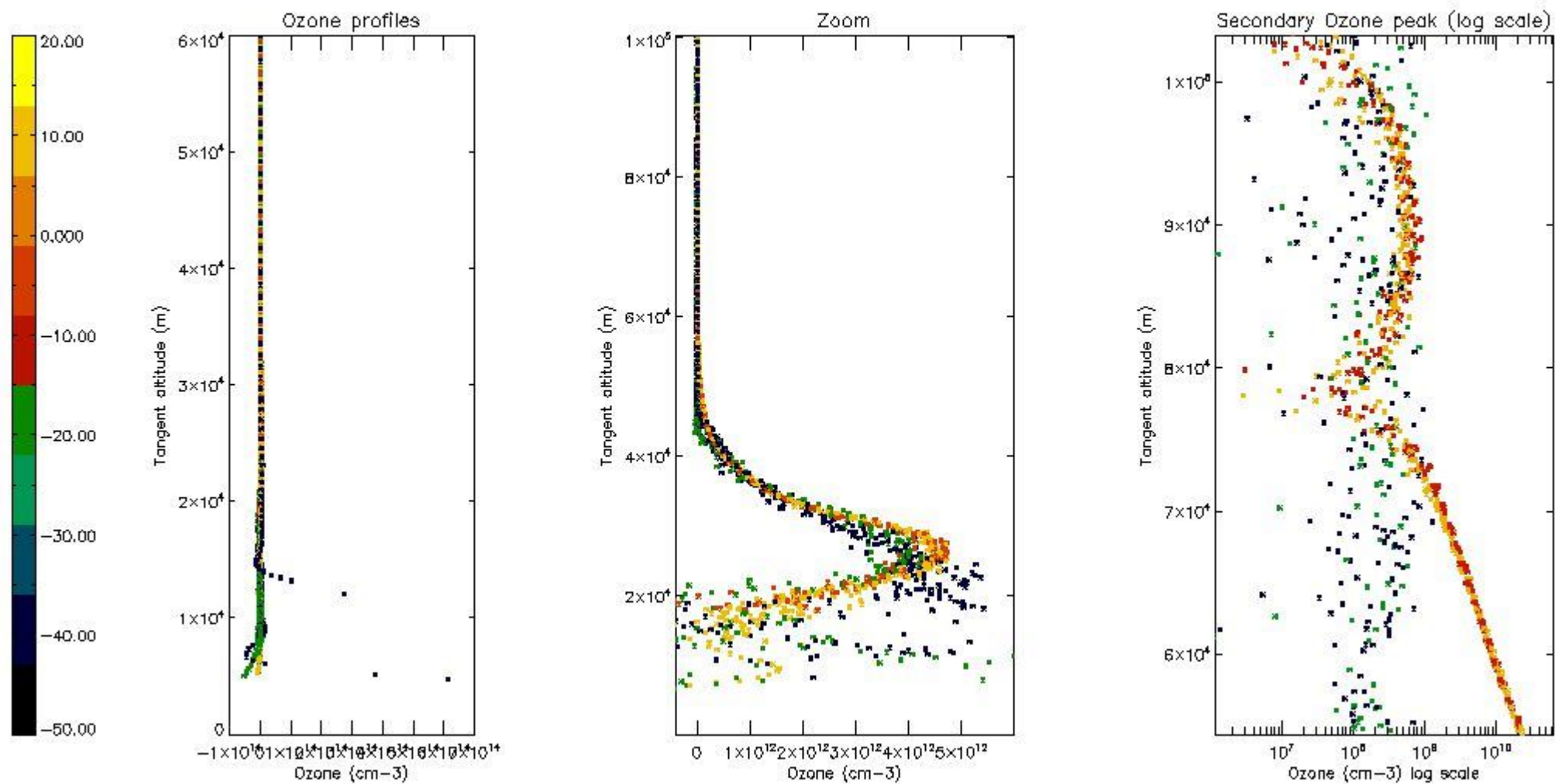
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	37
STD < 20	18

STD < 10	15
STD < 5	10

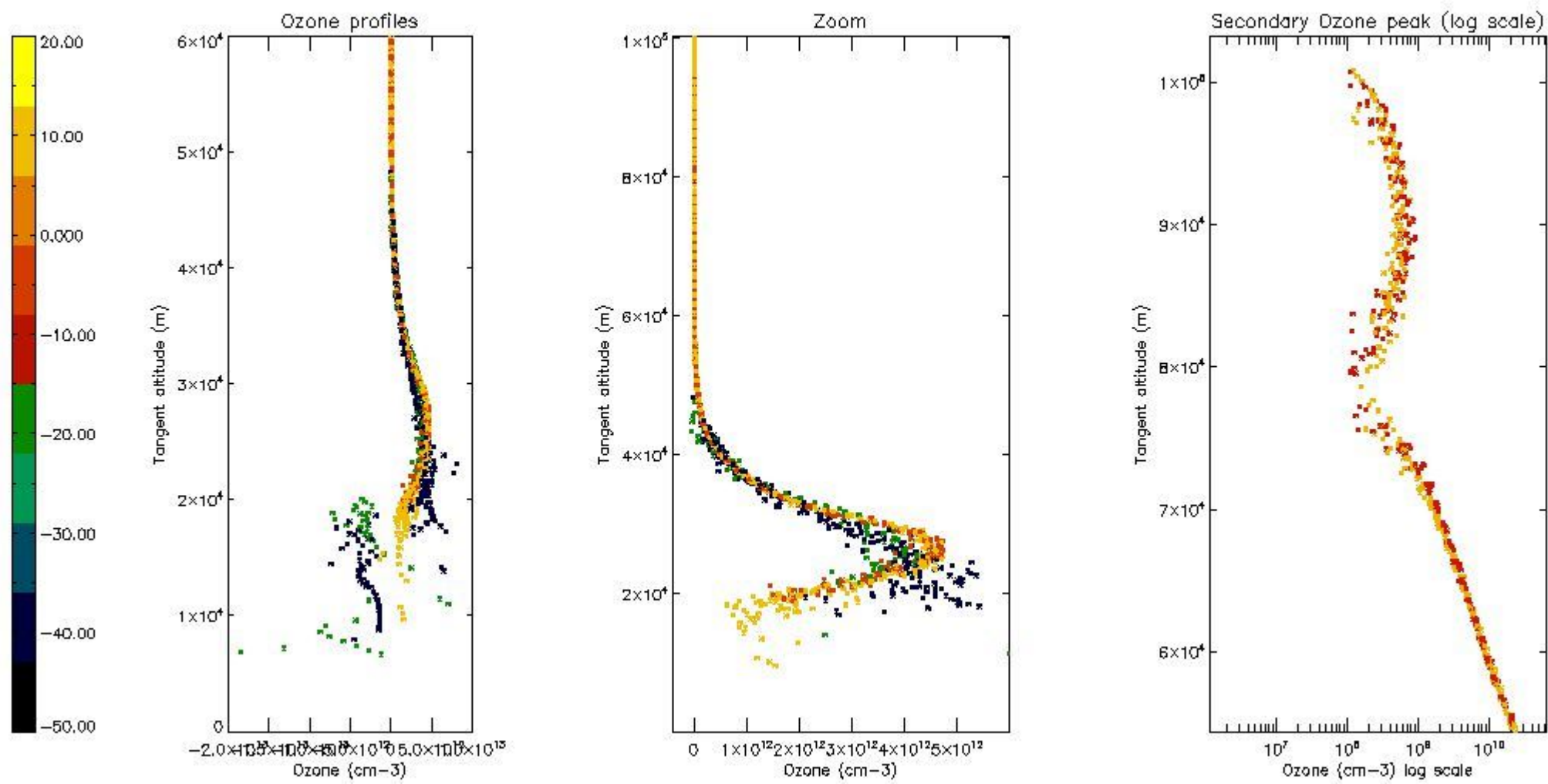
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



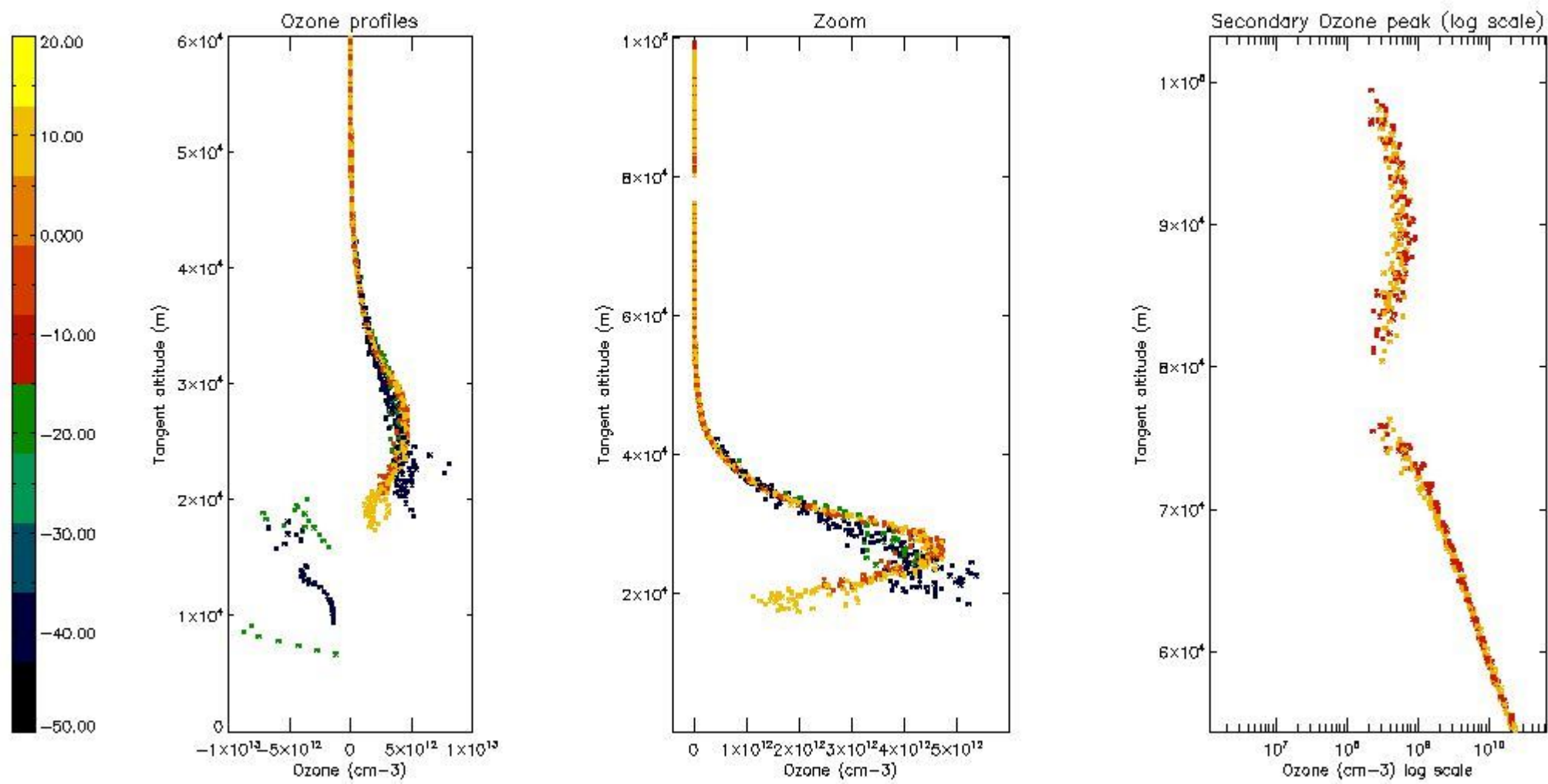
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



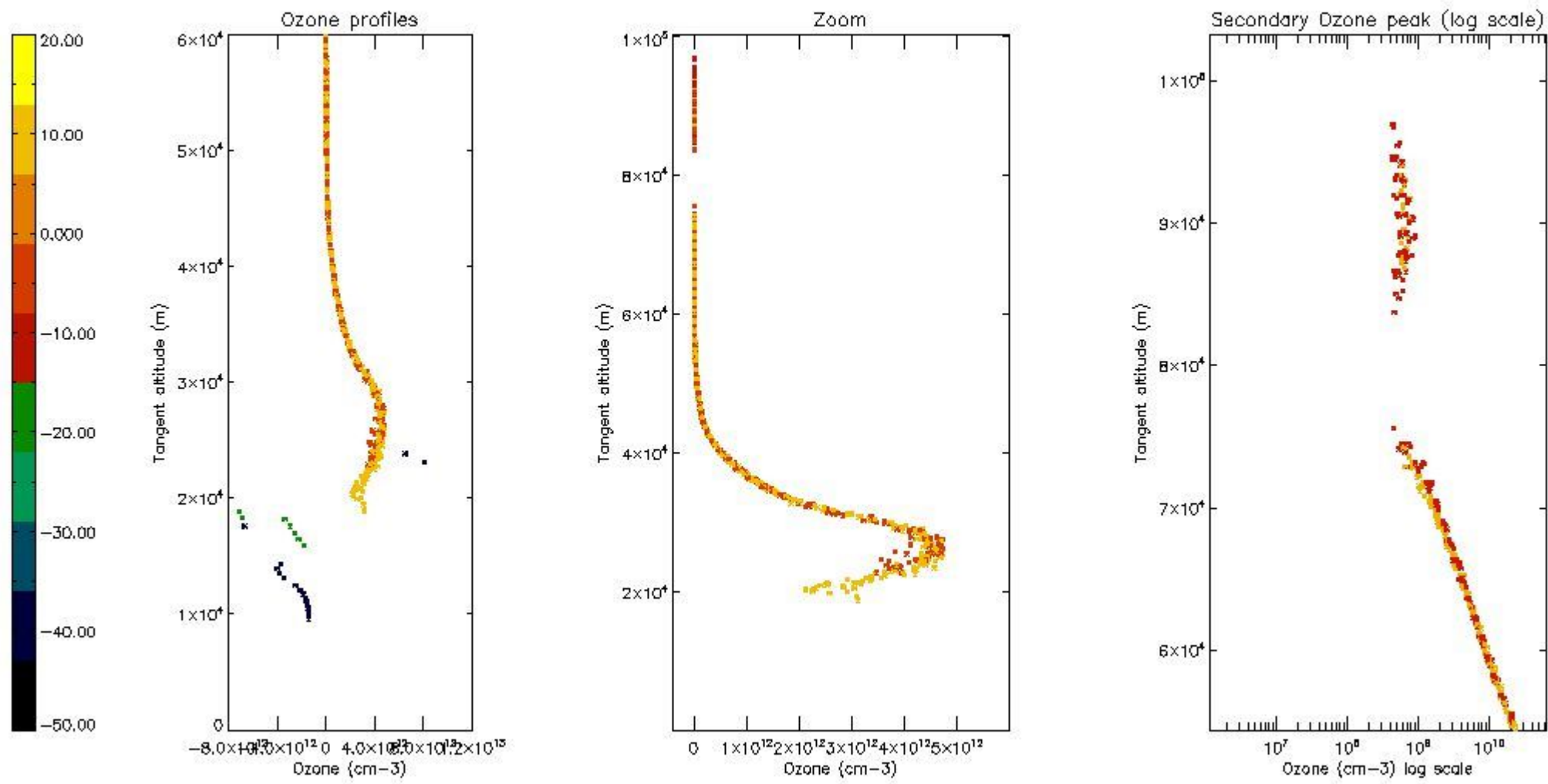
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



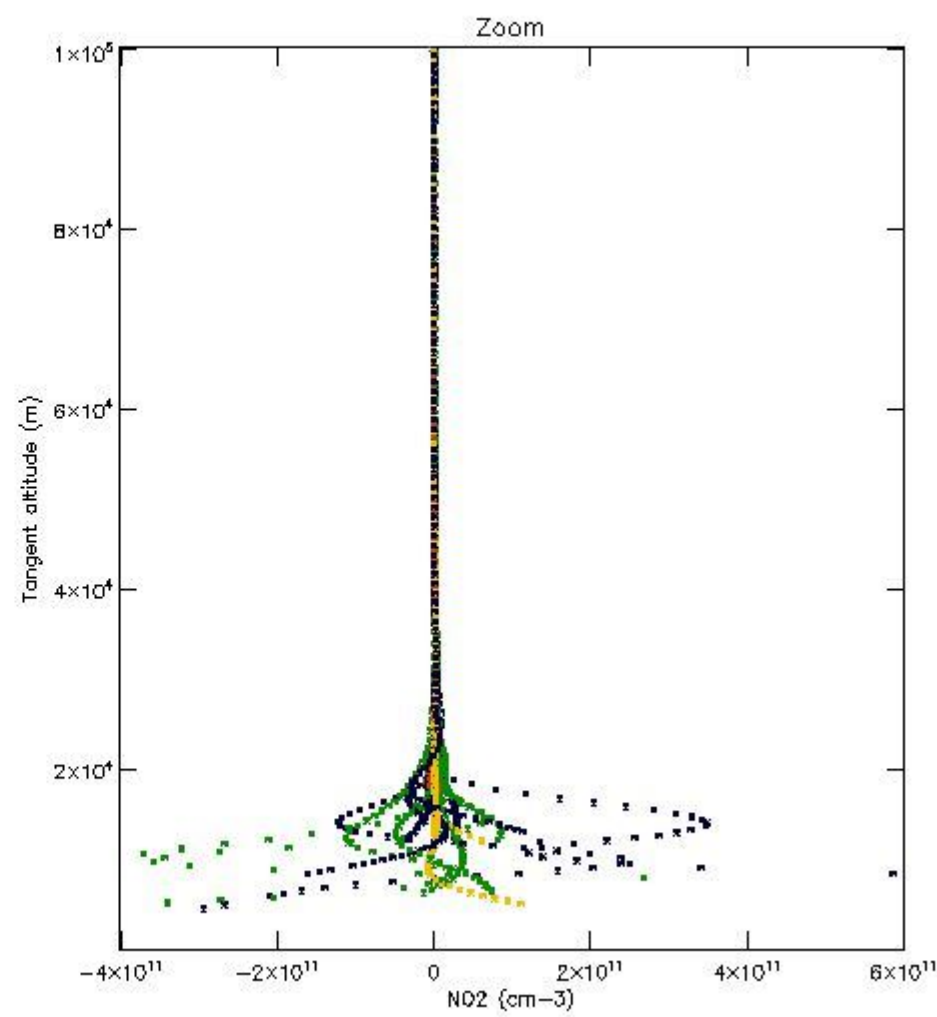
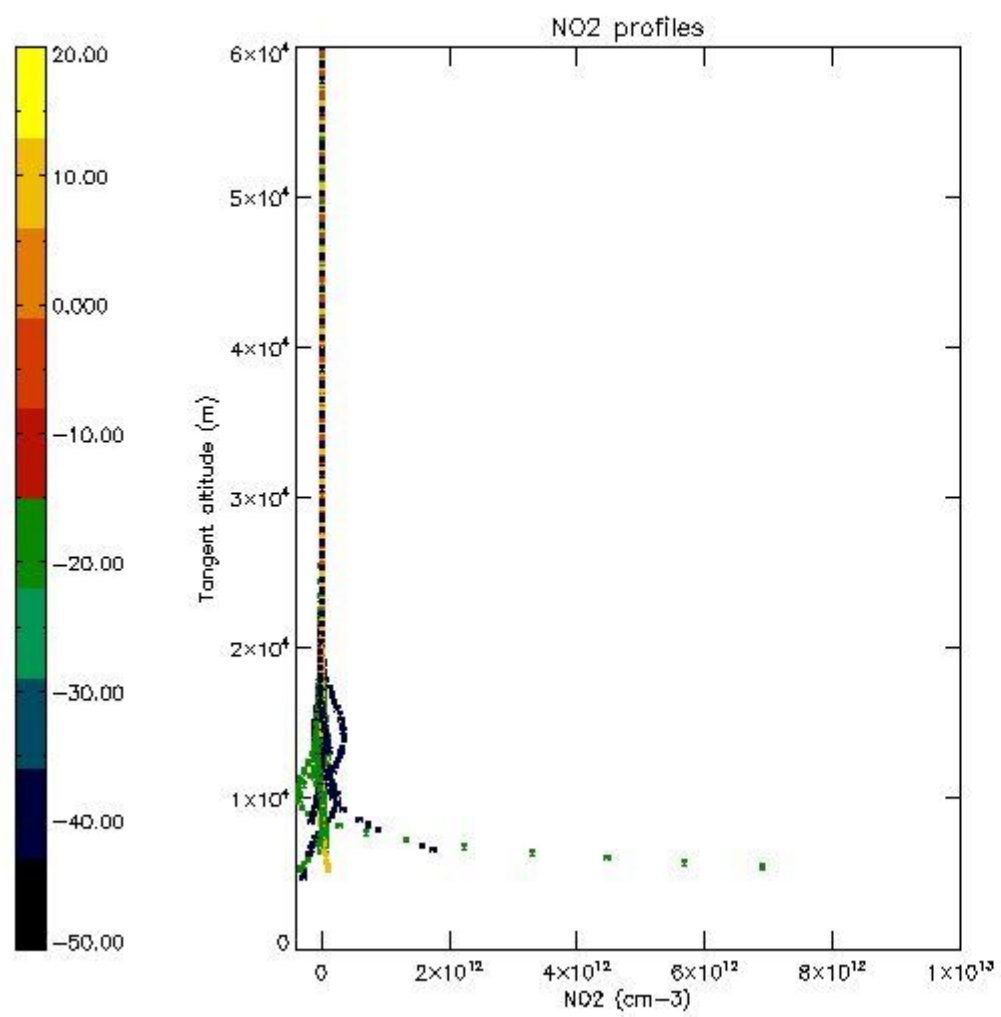
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



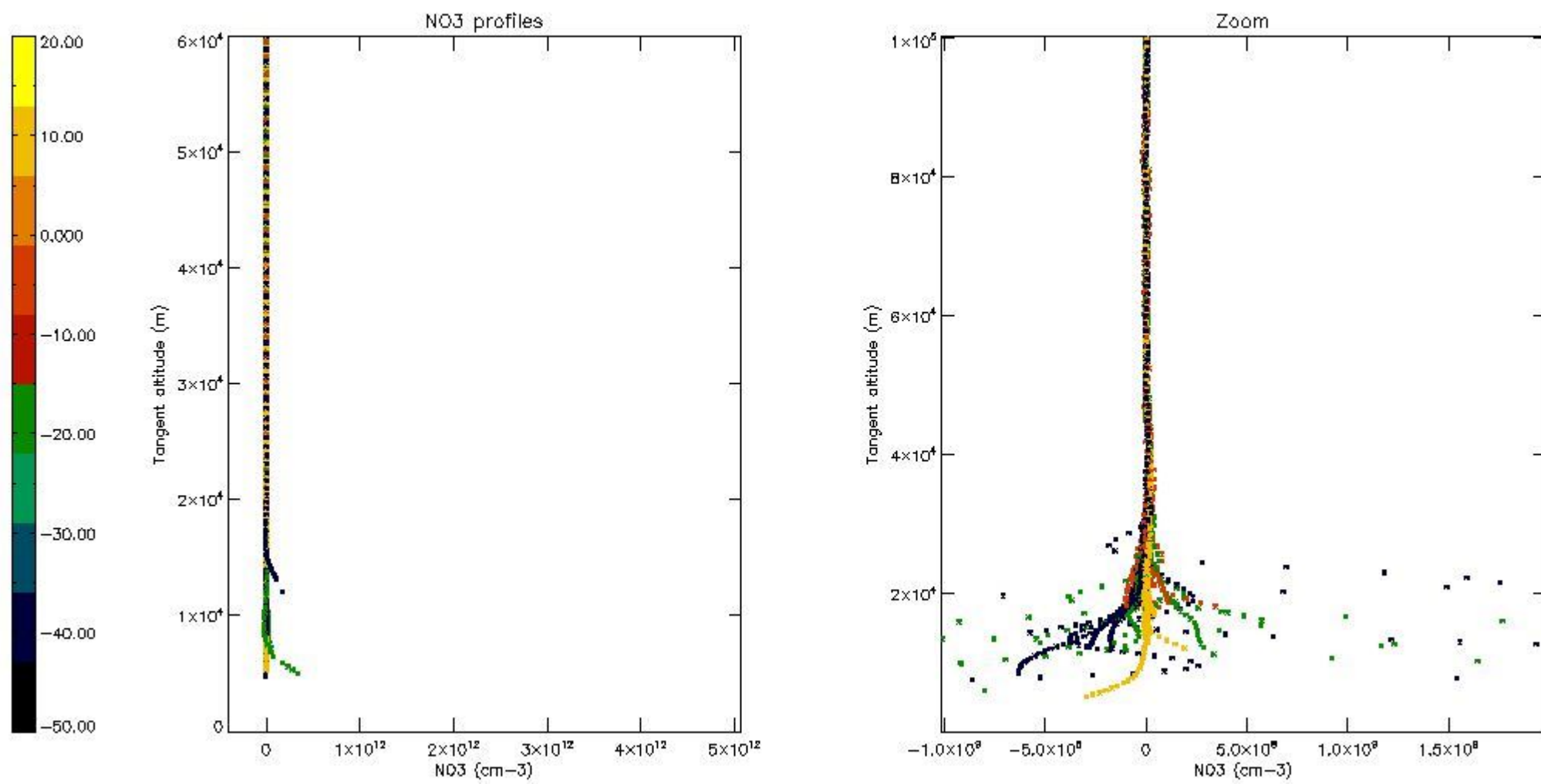
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



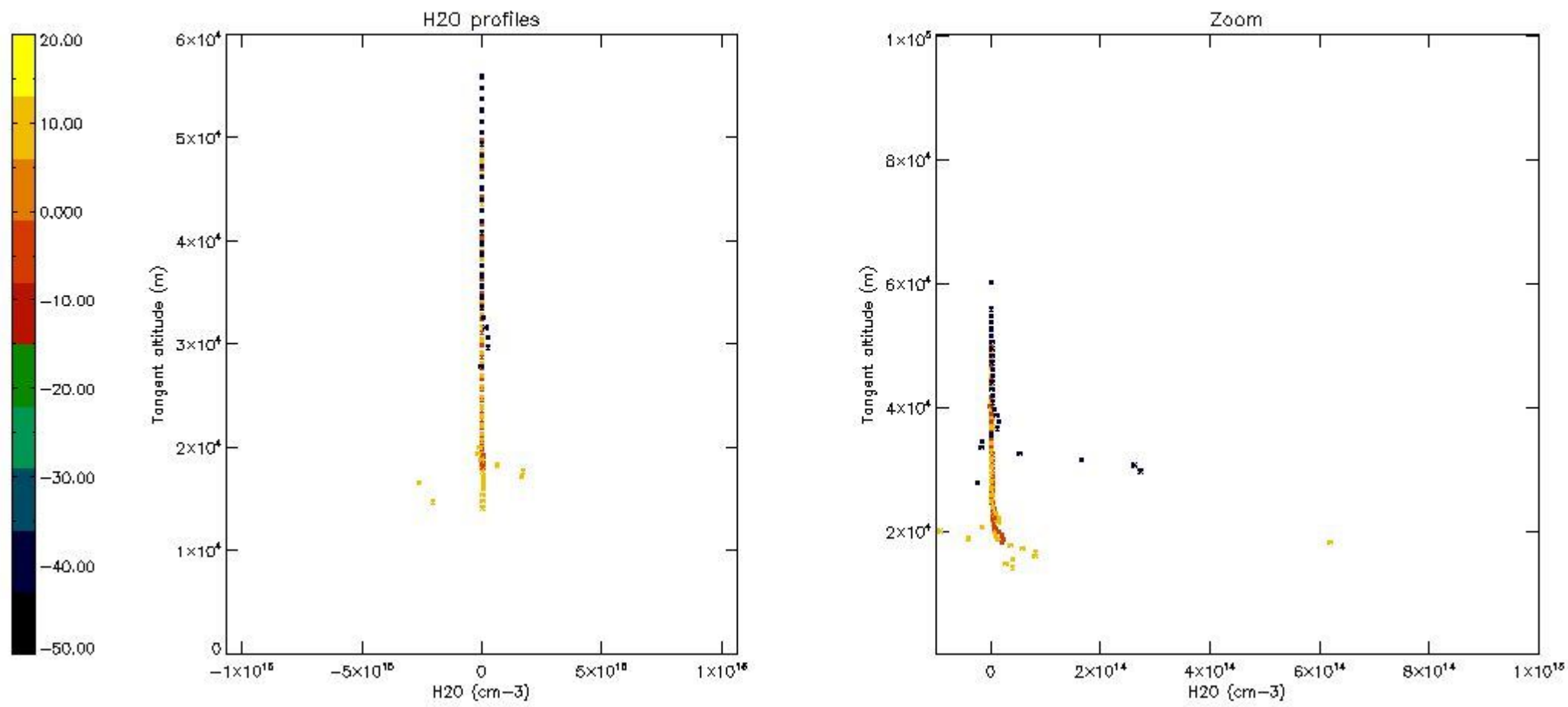
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

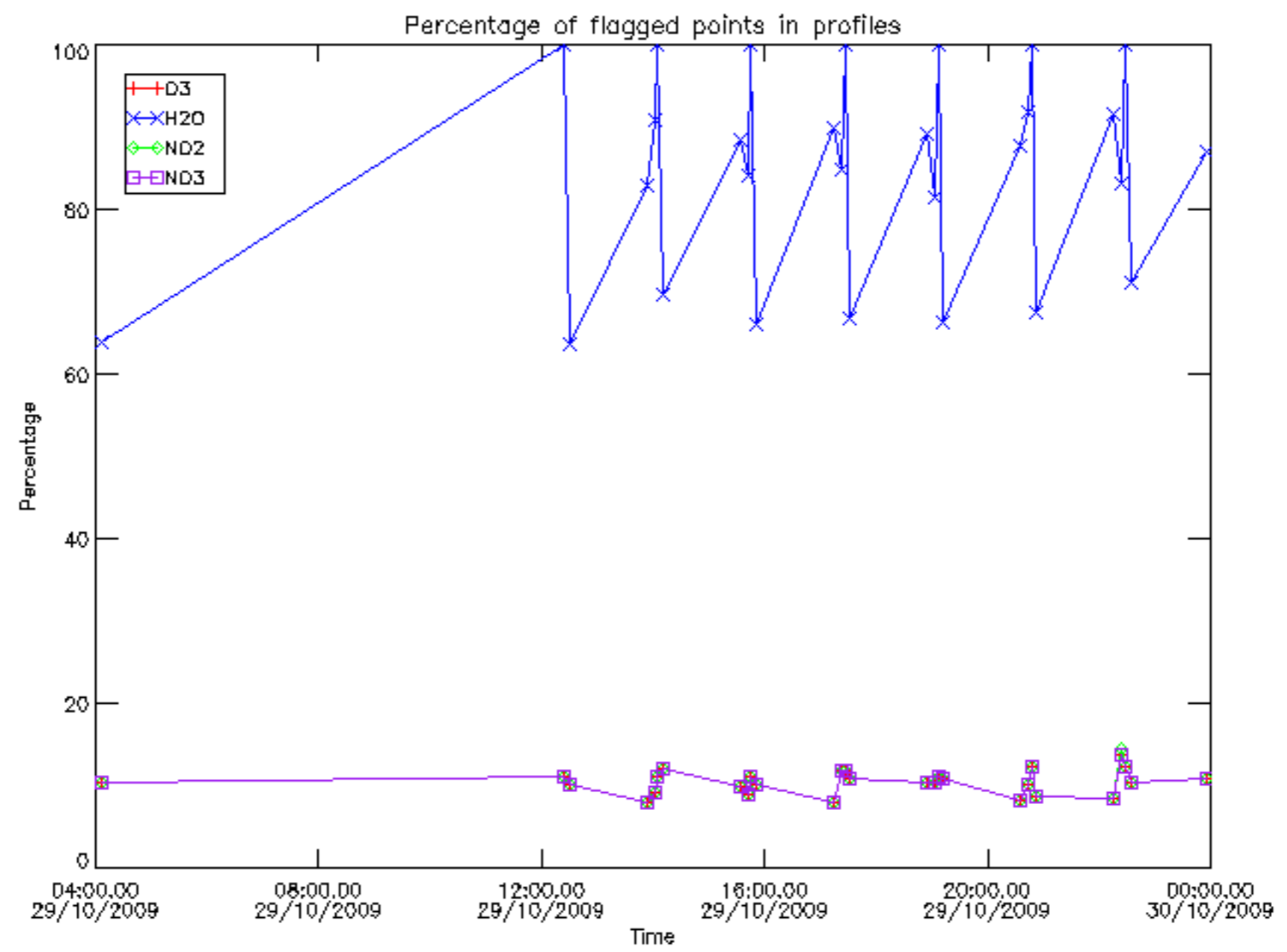
The colorbar represents the latitude.



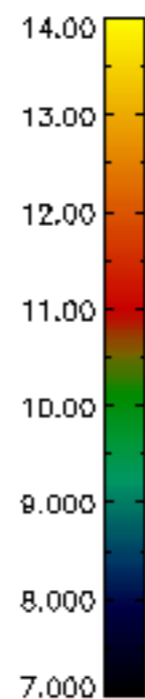
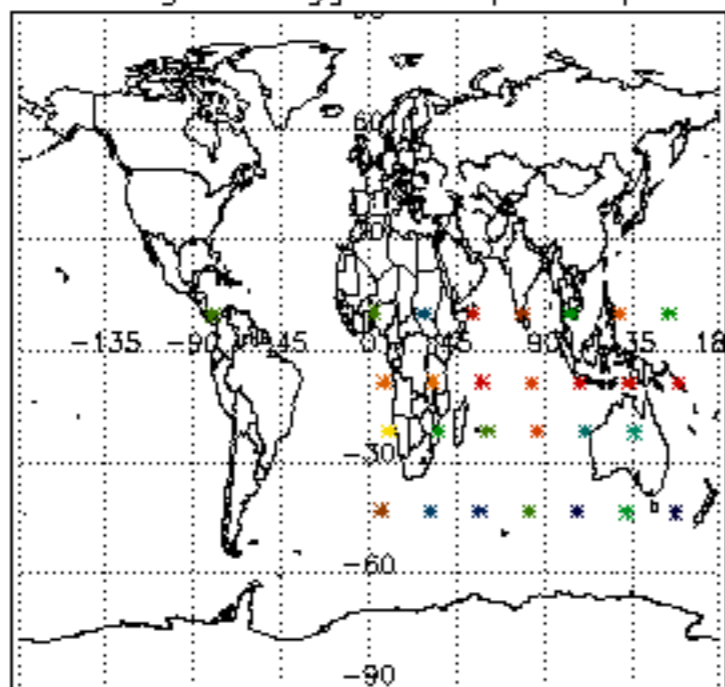
6. Auxiliary Data Files used for the production reported in section 2

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.

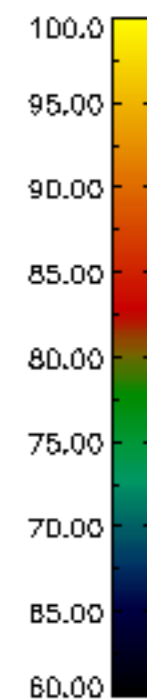
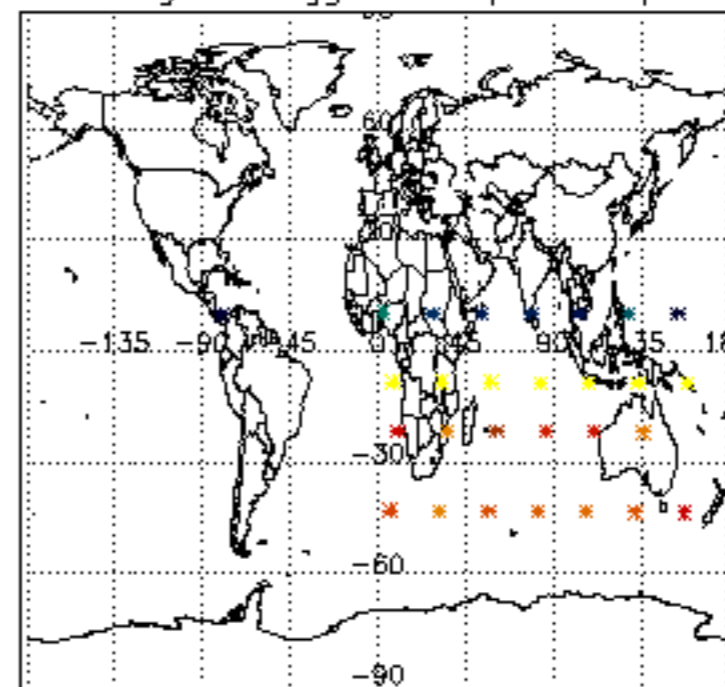
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	29-OCT-2009 04:06:54
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	29-OCT-2009 04:06:54
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	29-OCT-2009 04:06:54



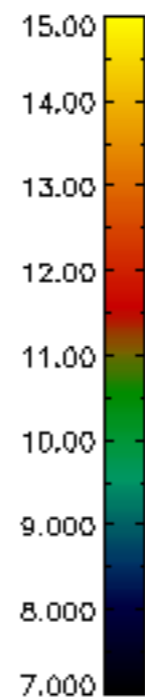
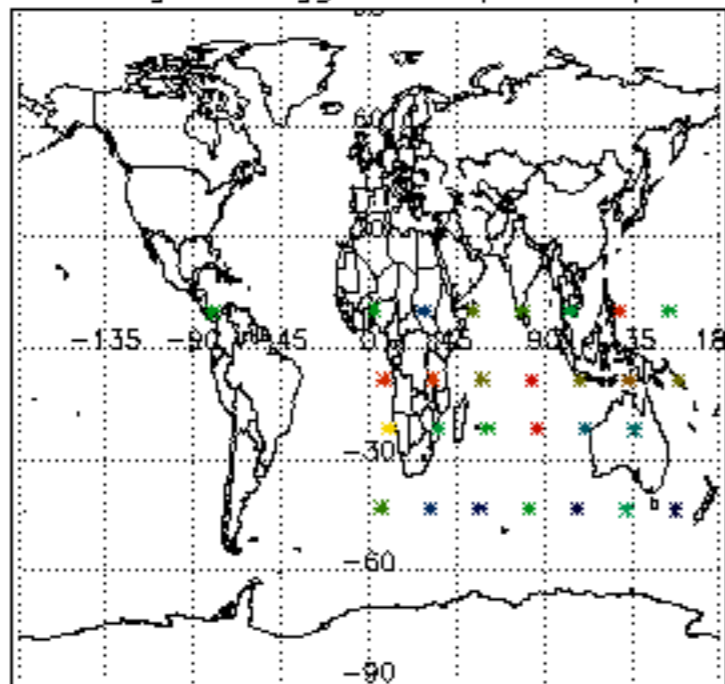
Percentage of flagged data per D3 profile



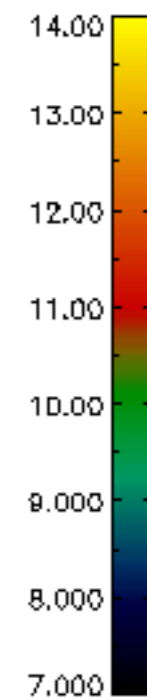
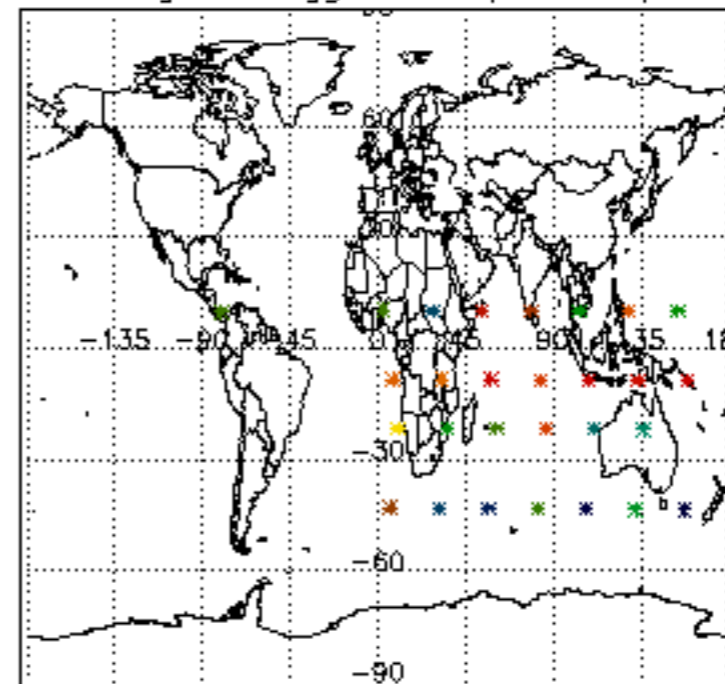
Percentage of flagged data per H2O profile

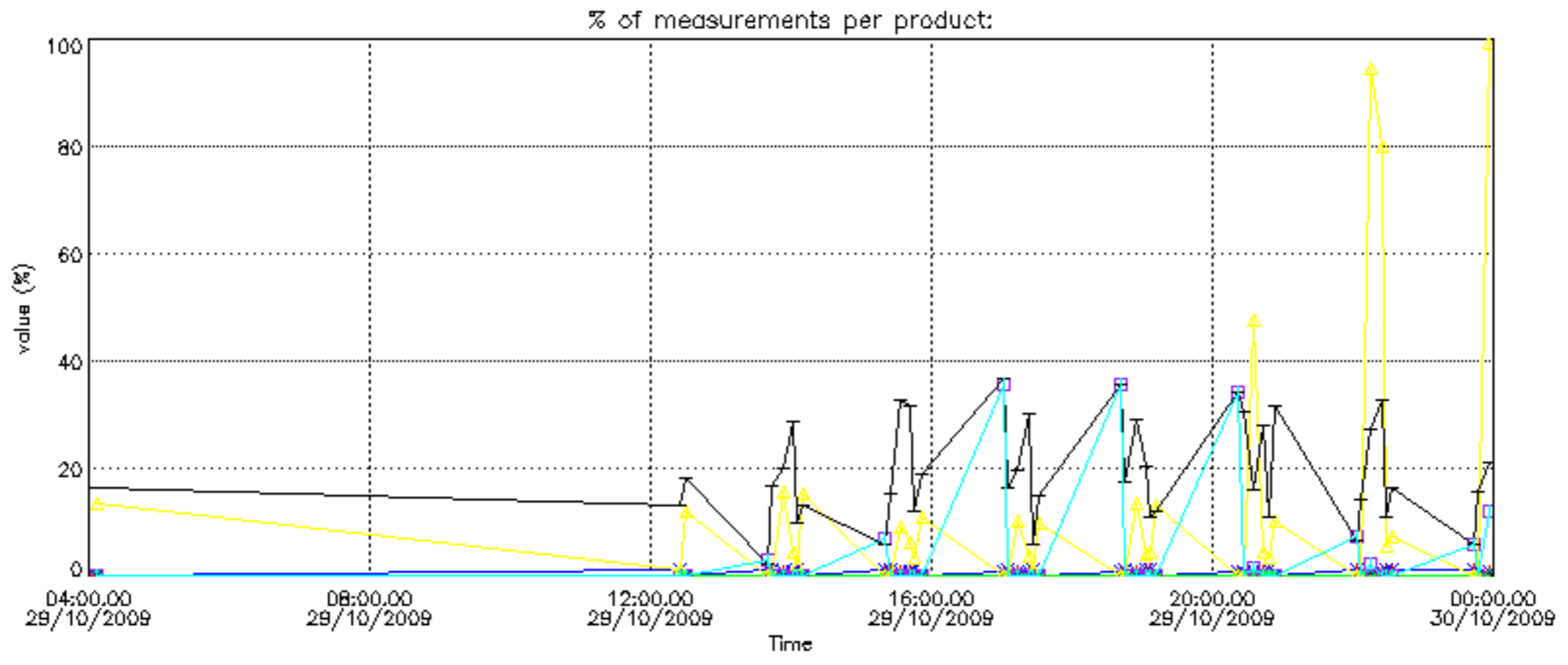


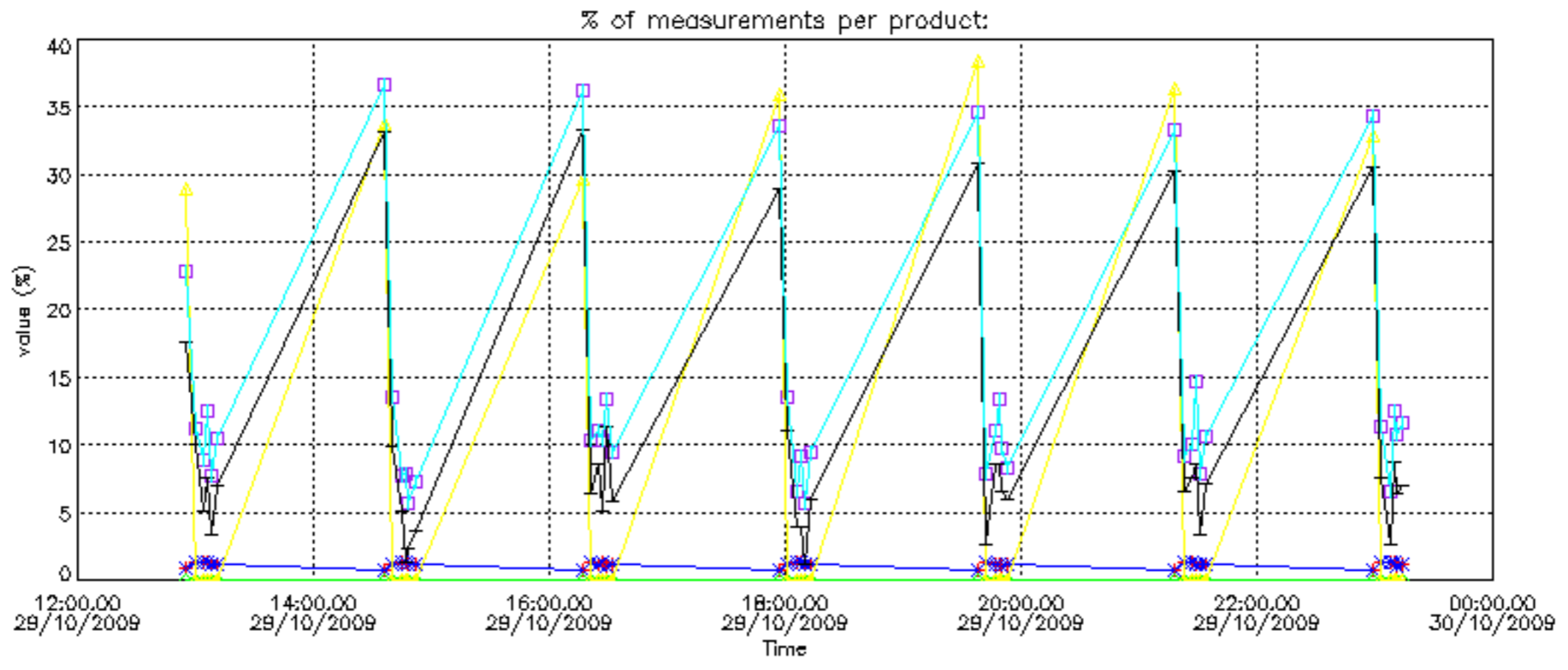
Percentage of flagged data per NO2 profile



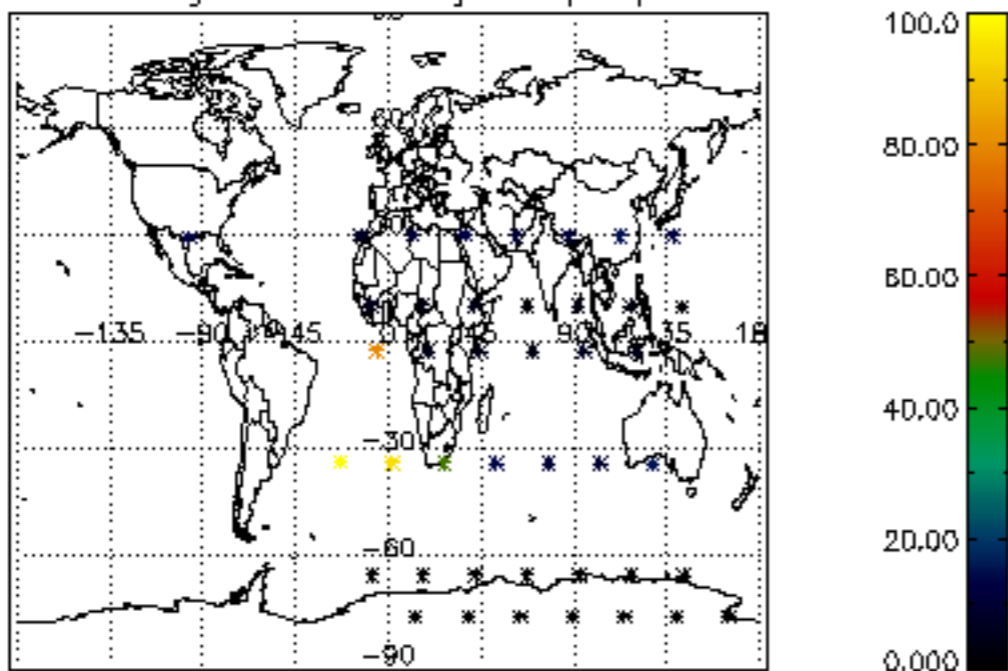
Percentage of flagged data per NO3 profile



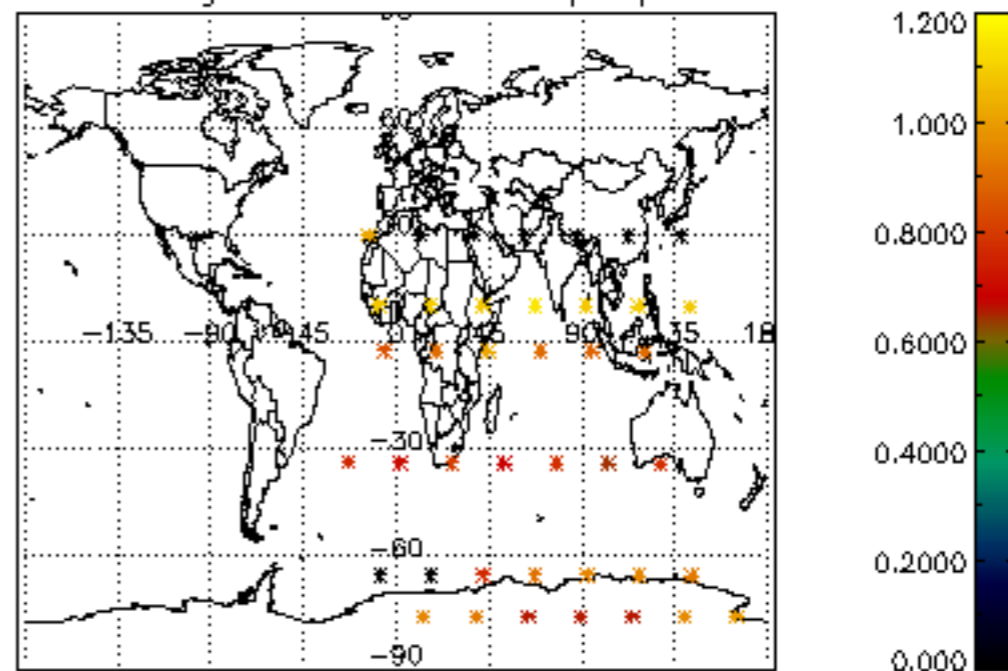




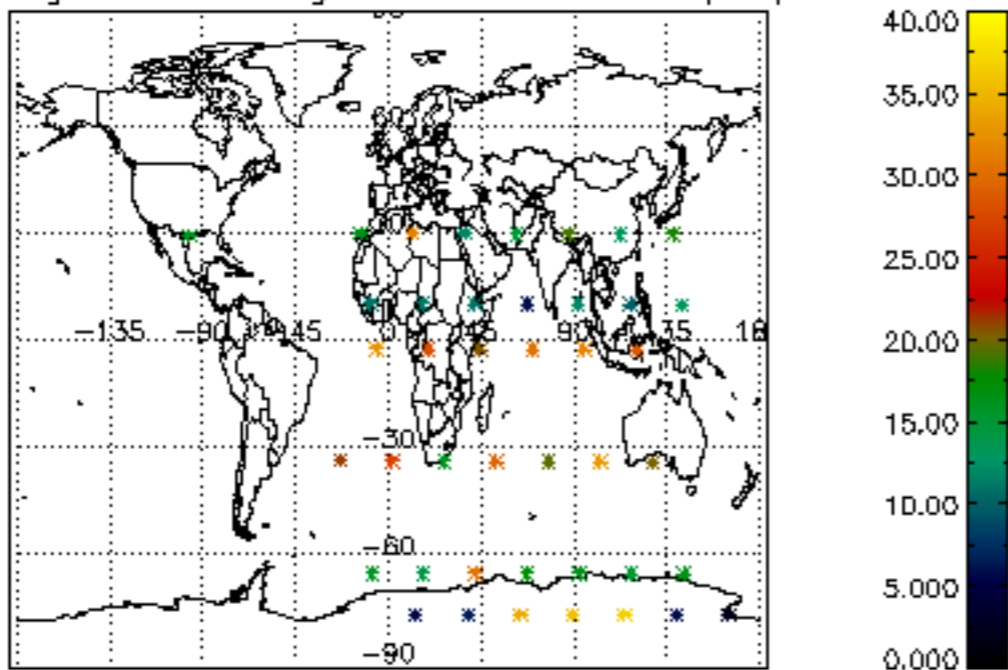
Percentage of cosmic ray hits per profile



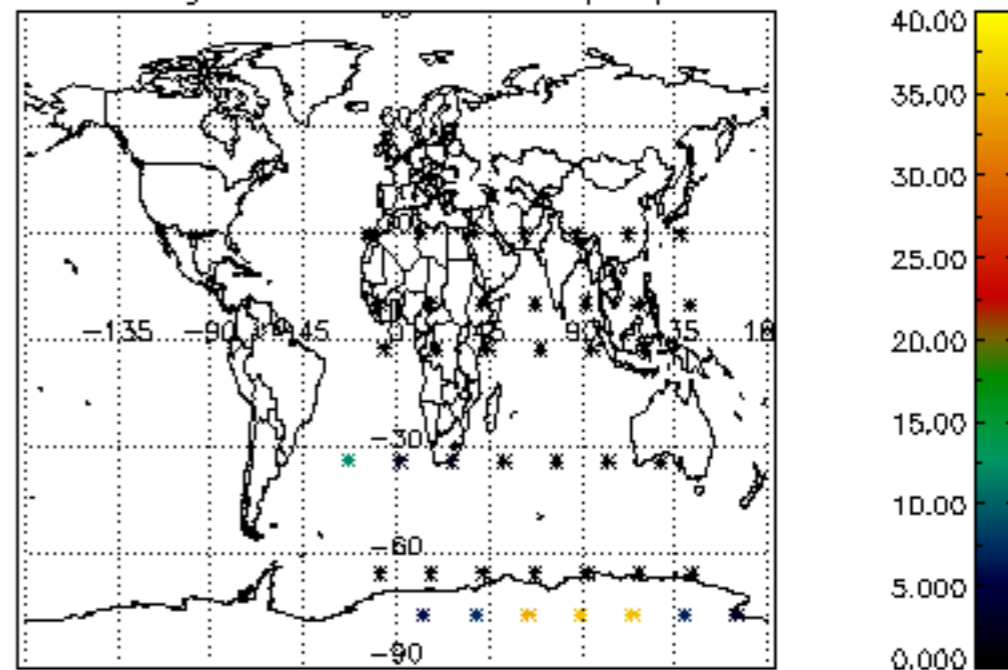
Percentage of datation errors per profile



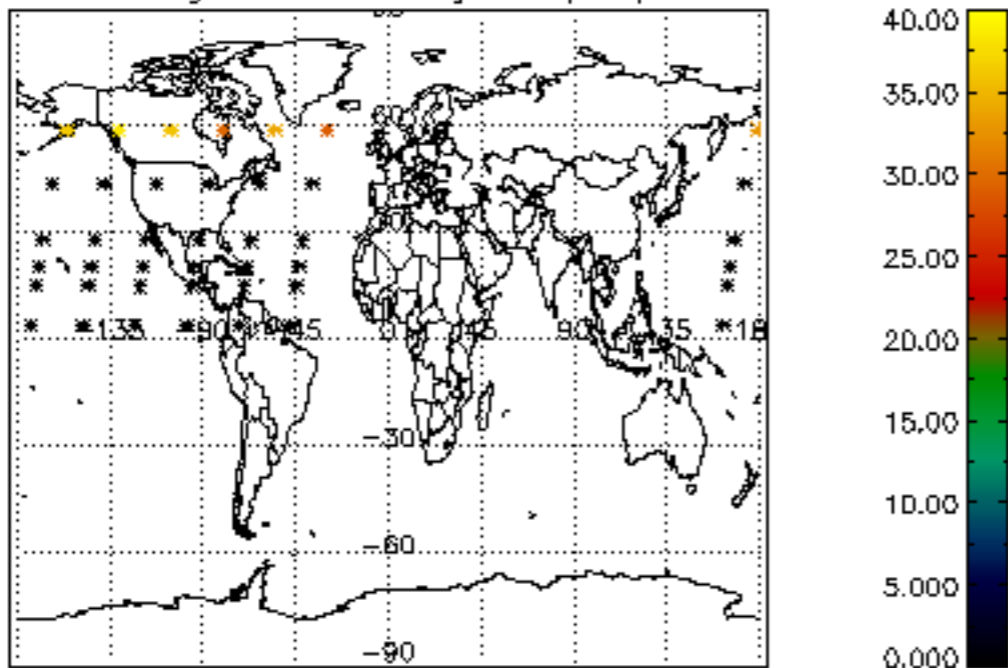
Percentage of star falling outside central band per profile



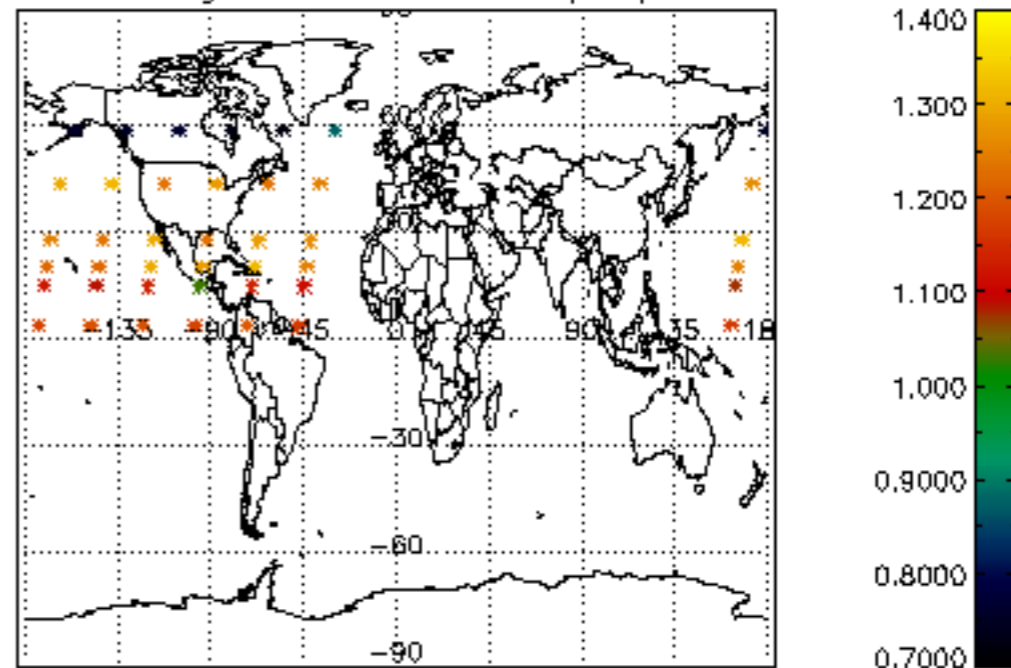
Percentage of saturation errors per profile



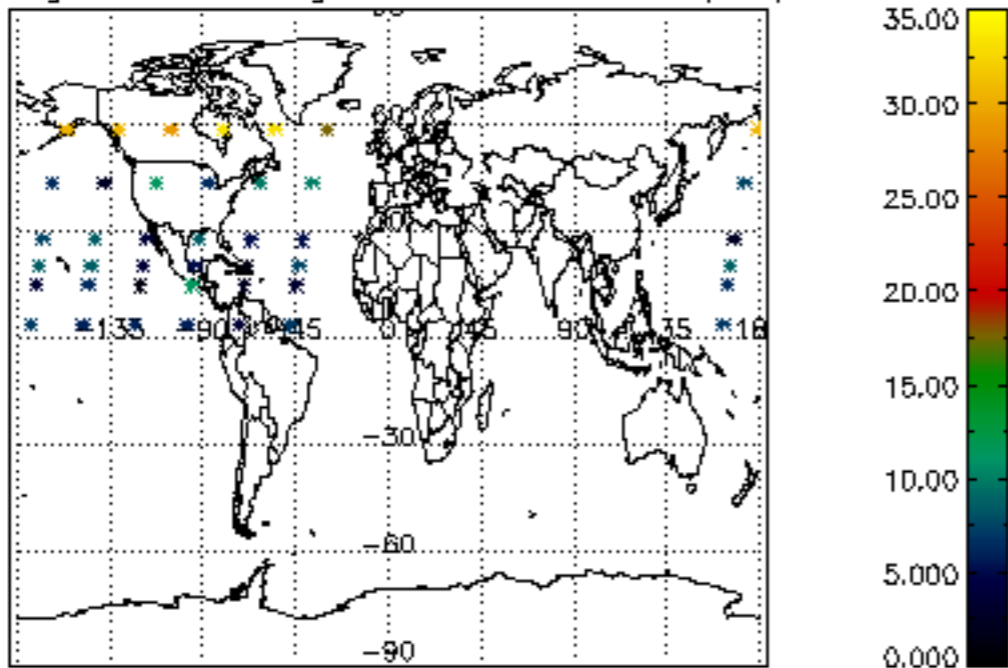
Percentage of cosmic ray hits per profile



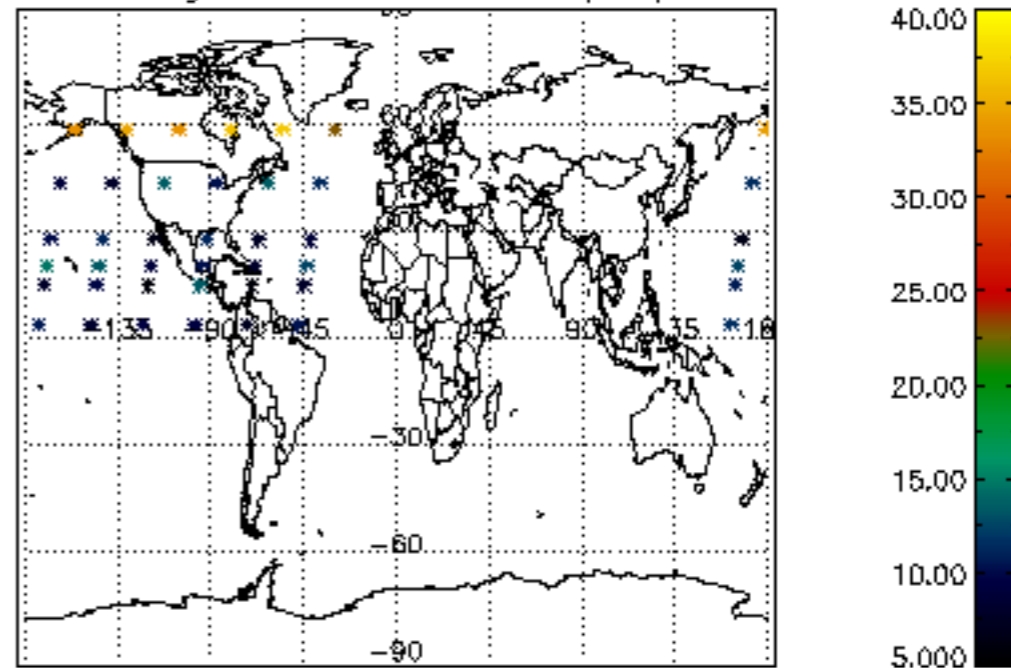
Percentage of datation errors per profile

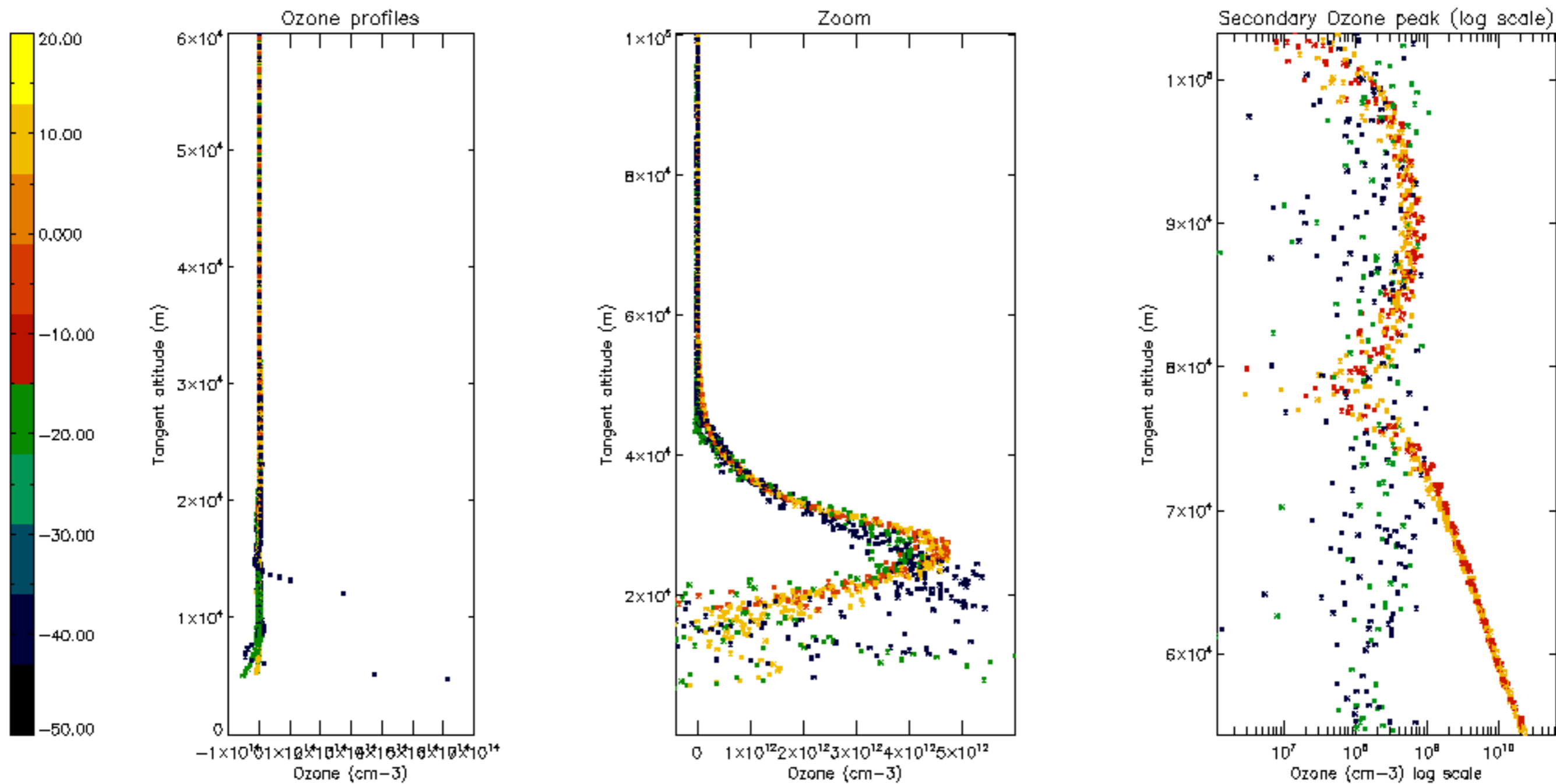


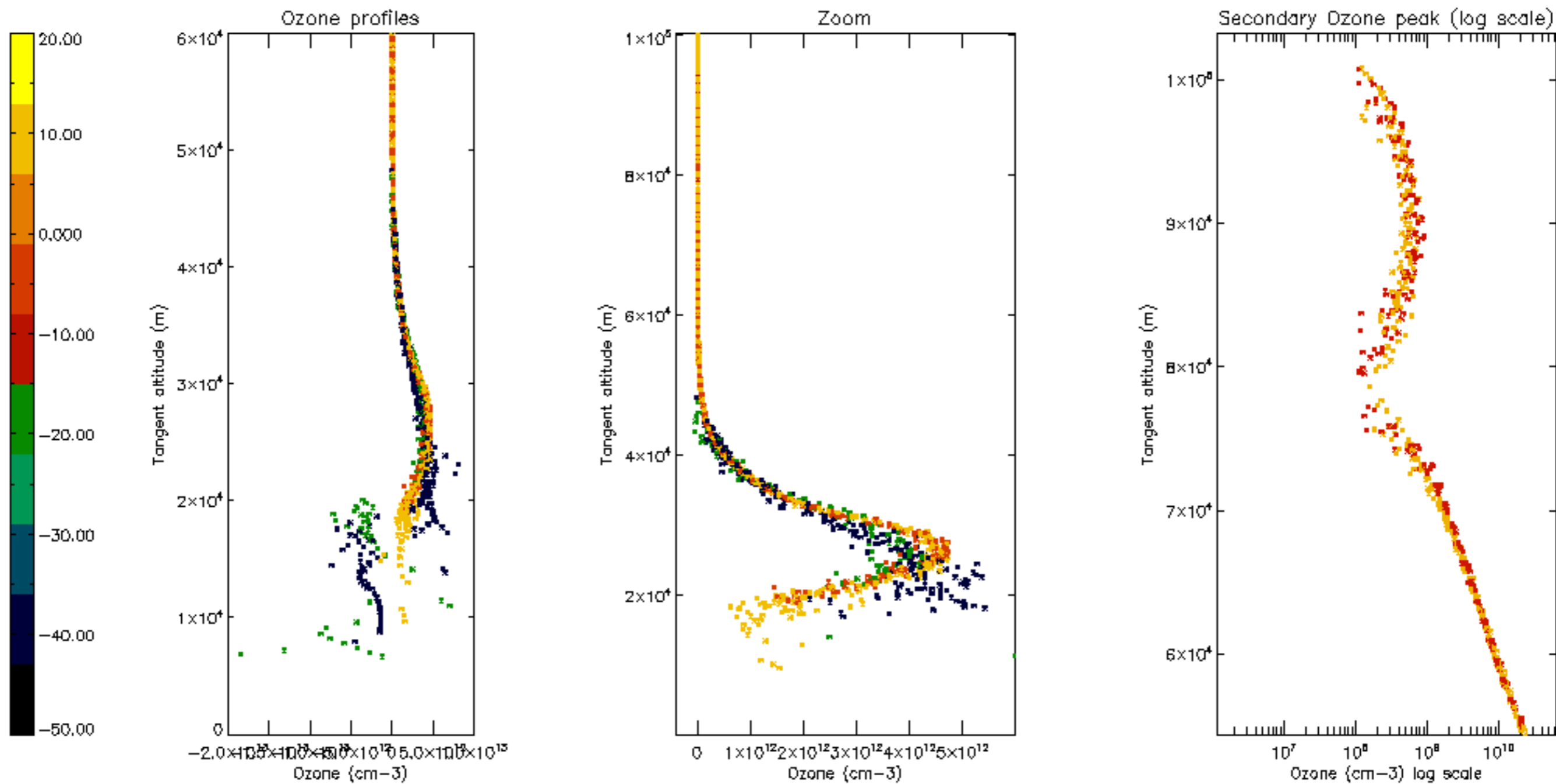
Percentage of star falling outside central band per profile

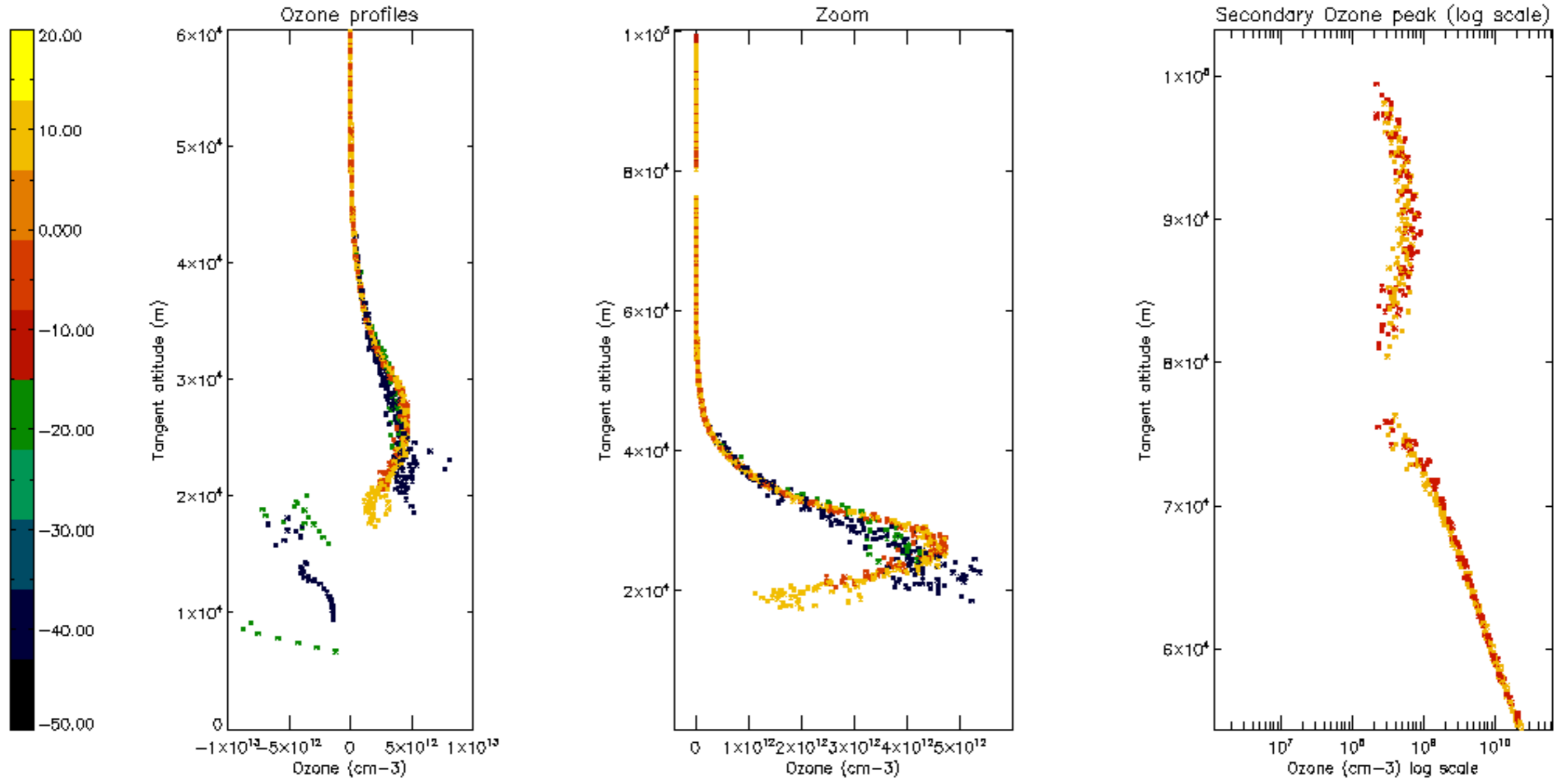


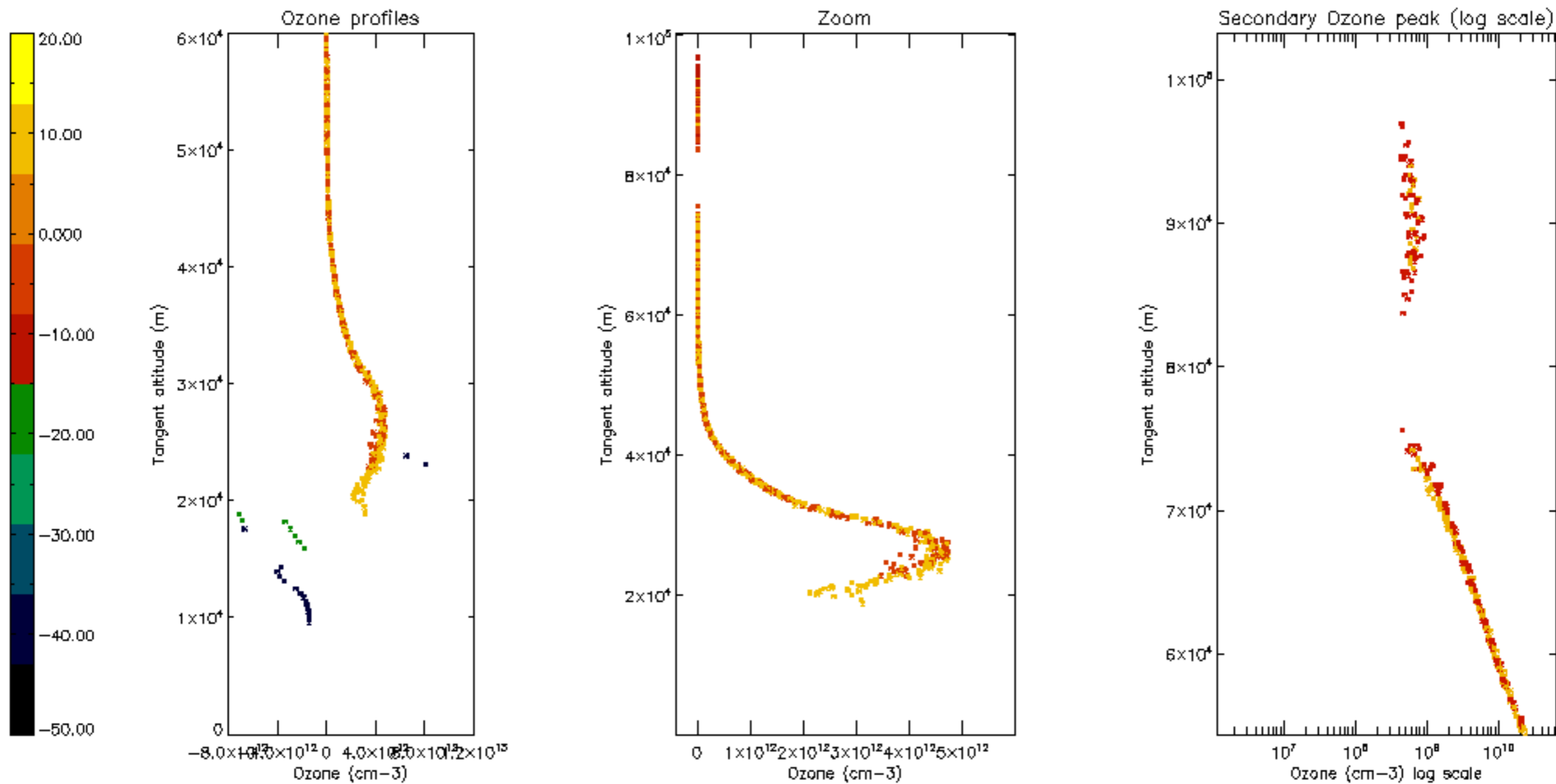
Percentage of saturation errors per profile

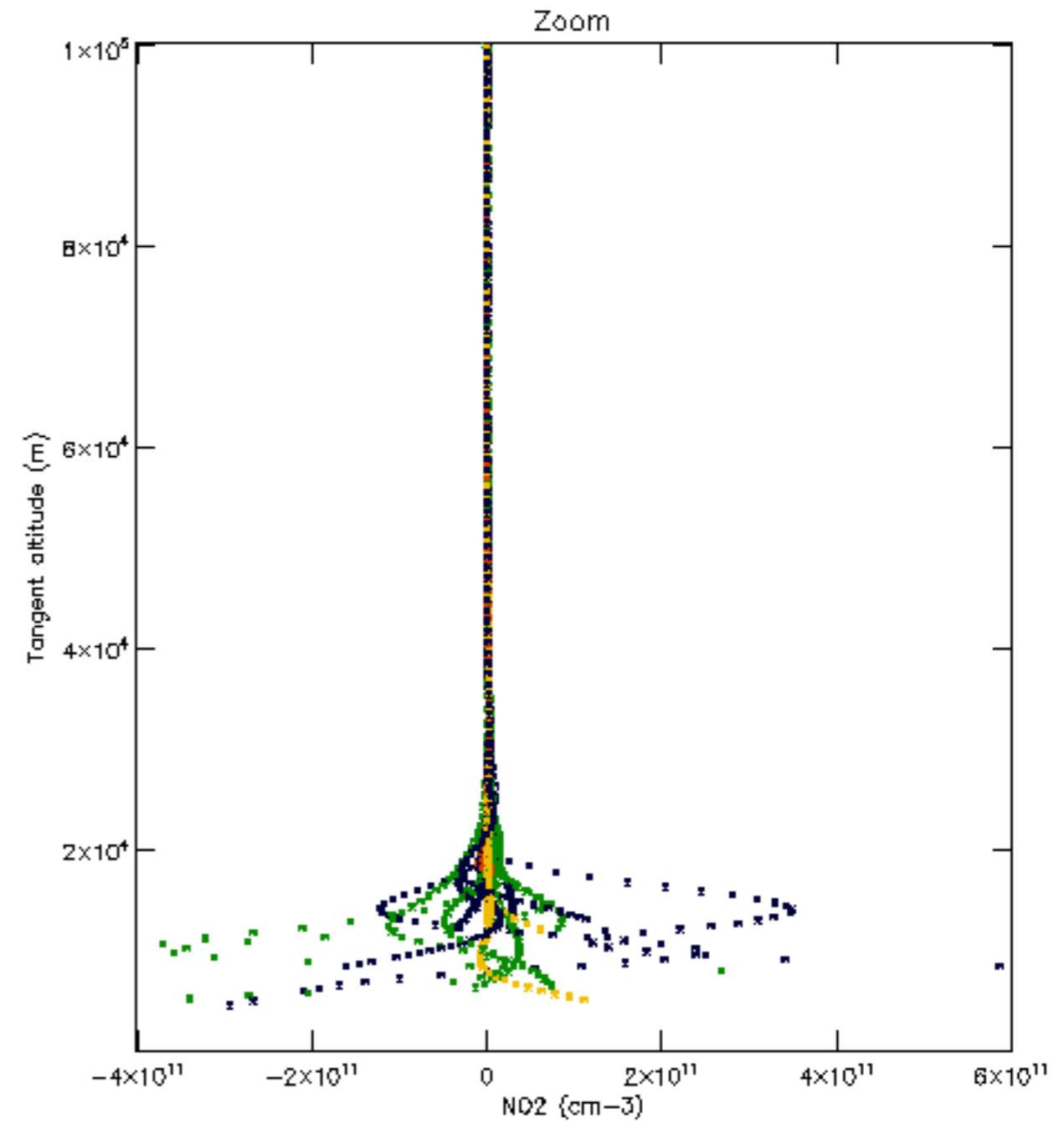
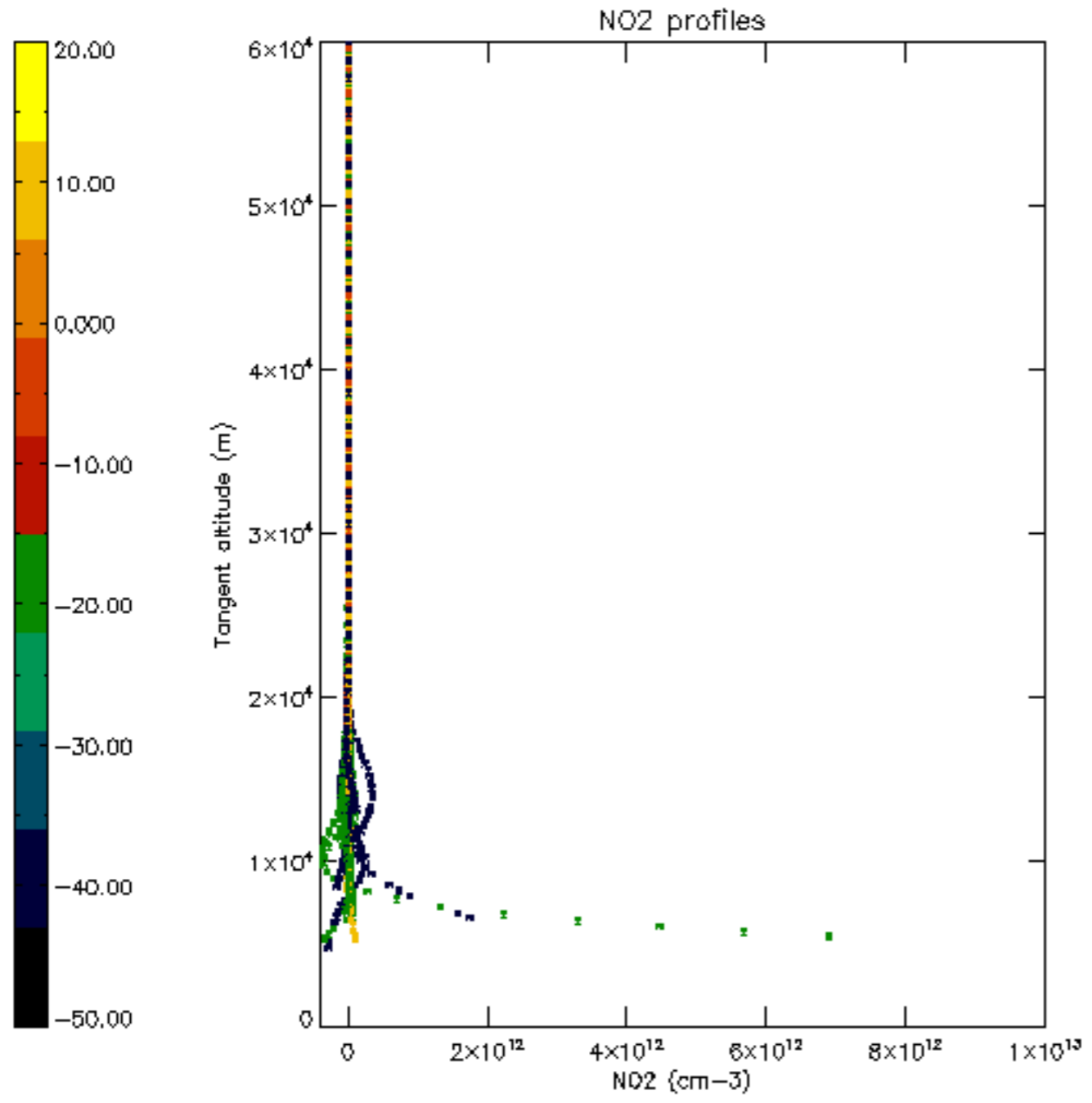


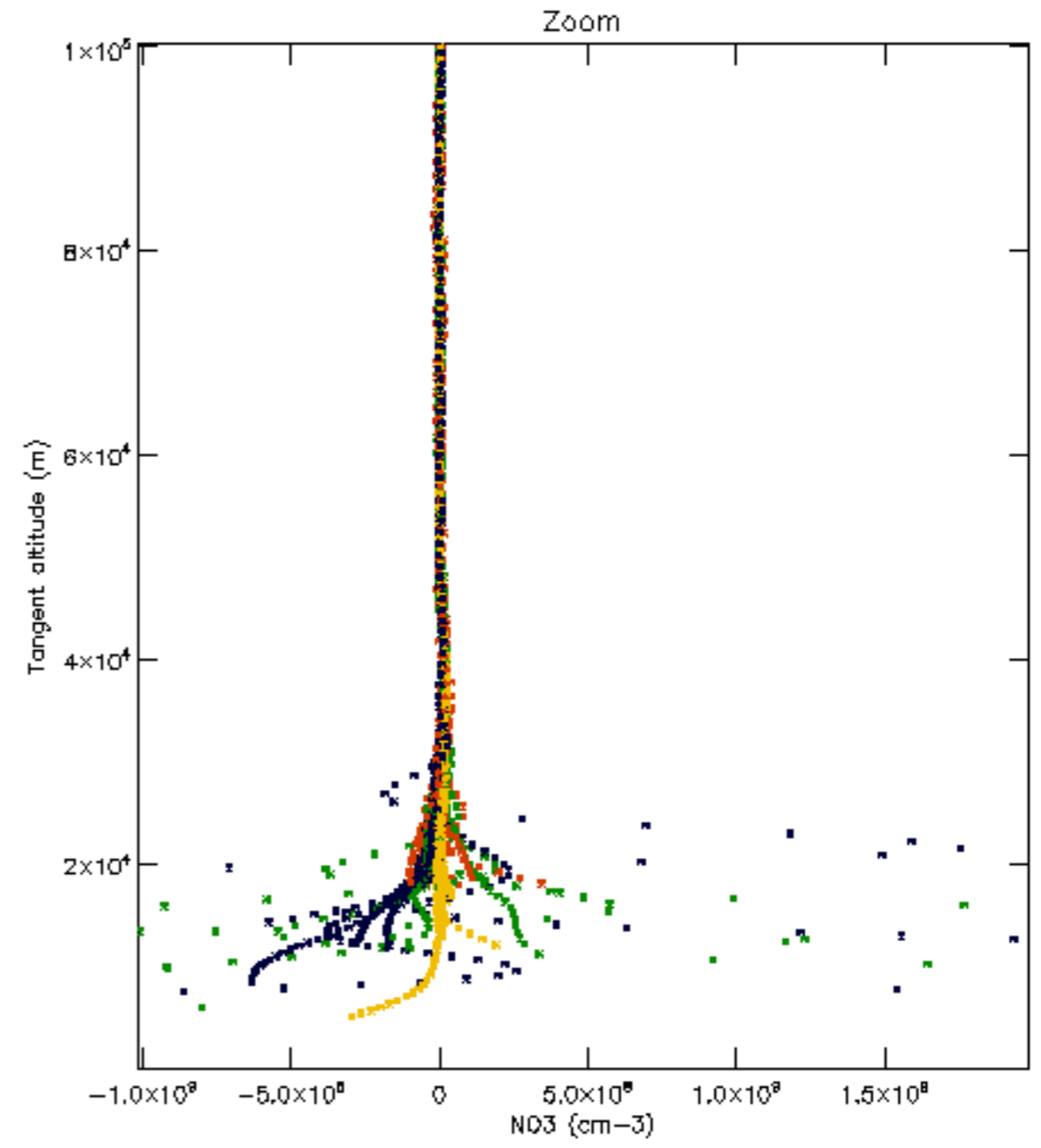
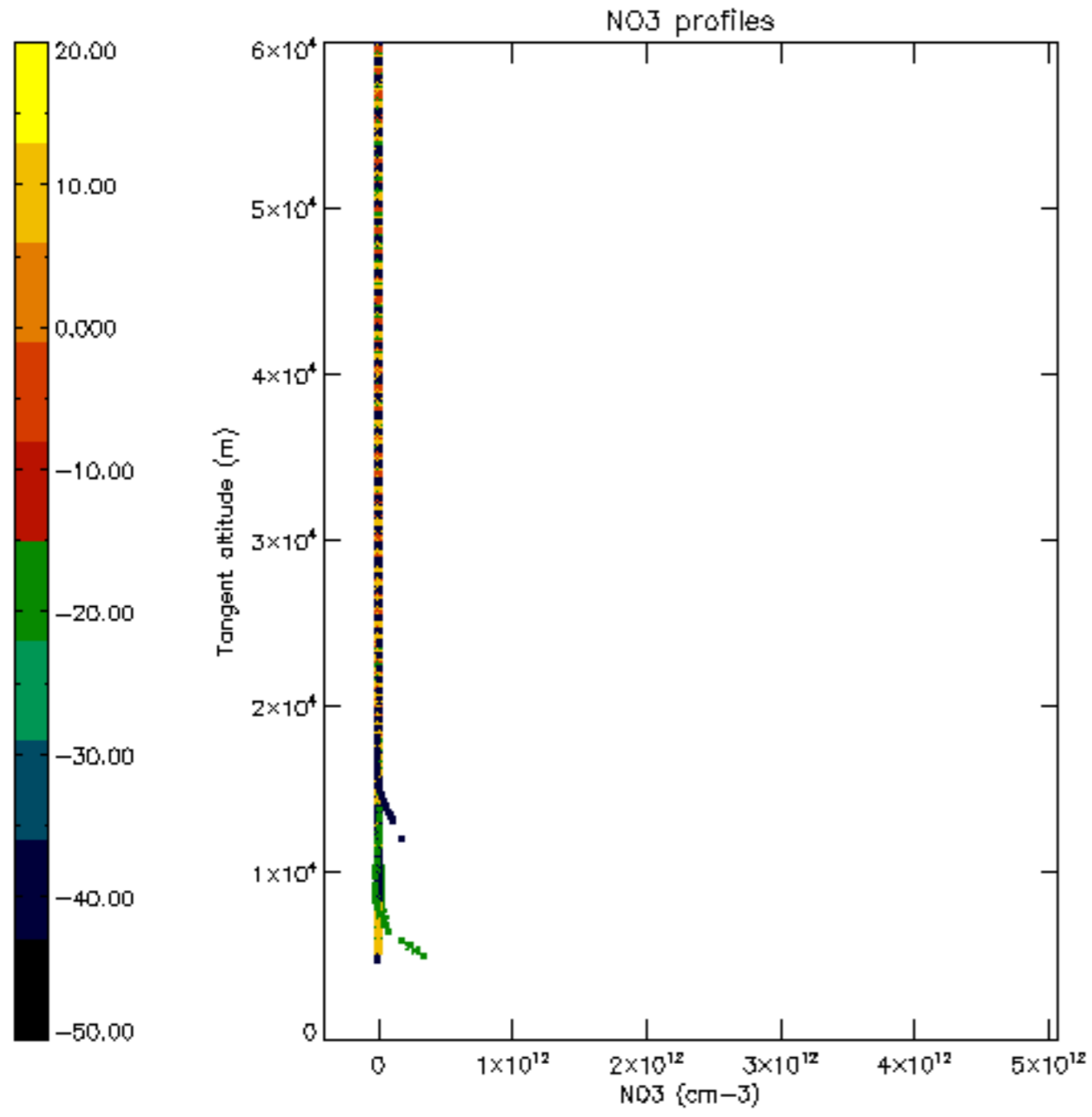


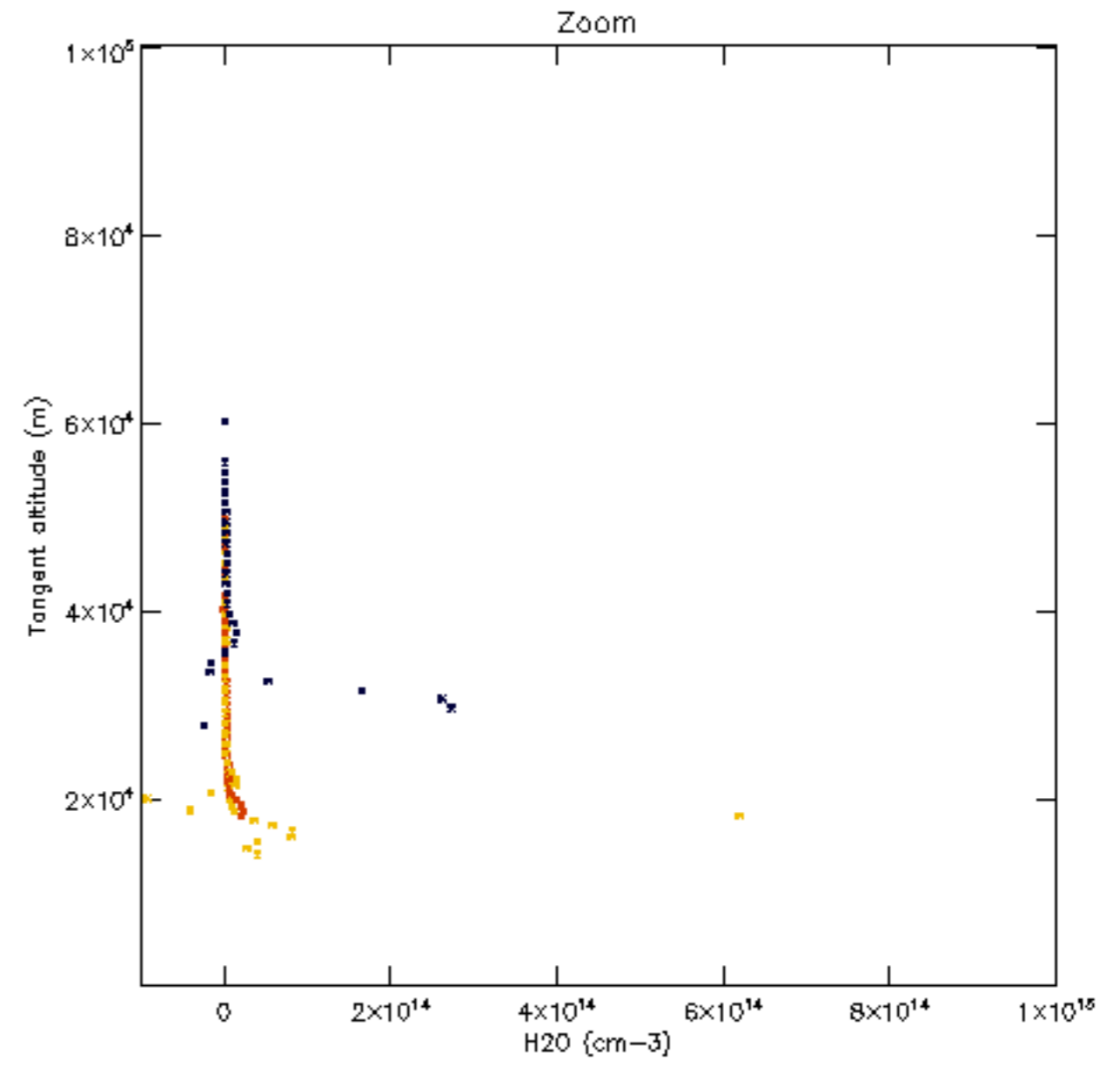
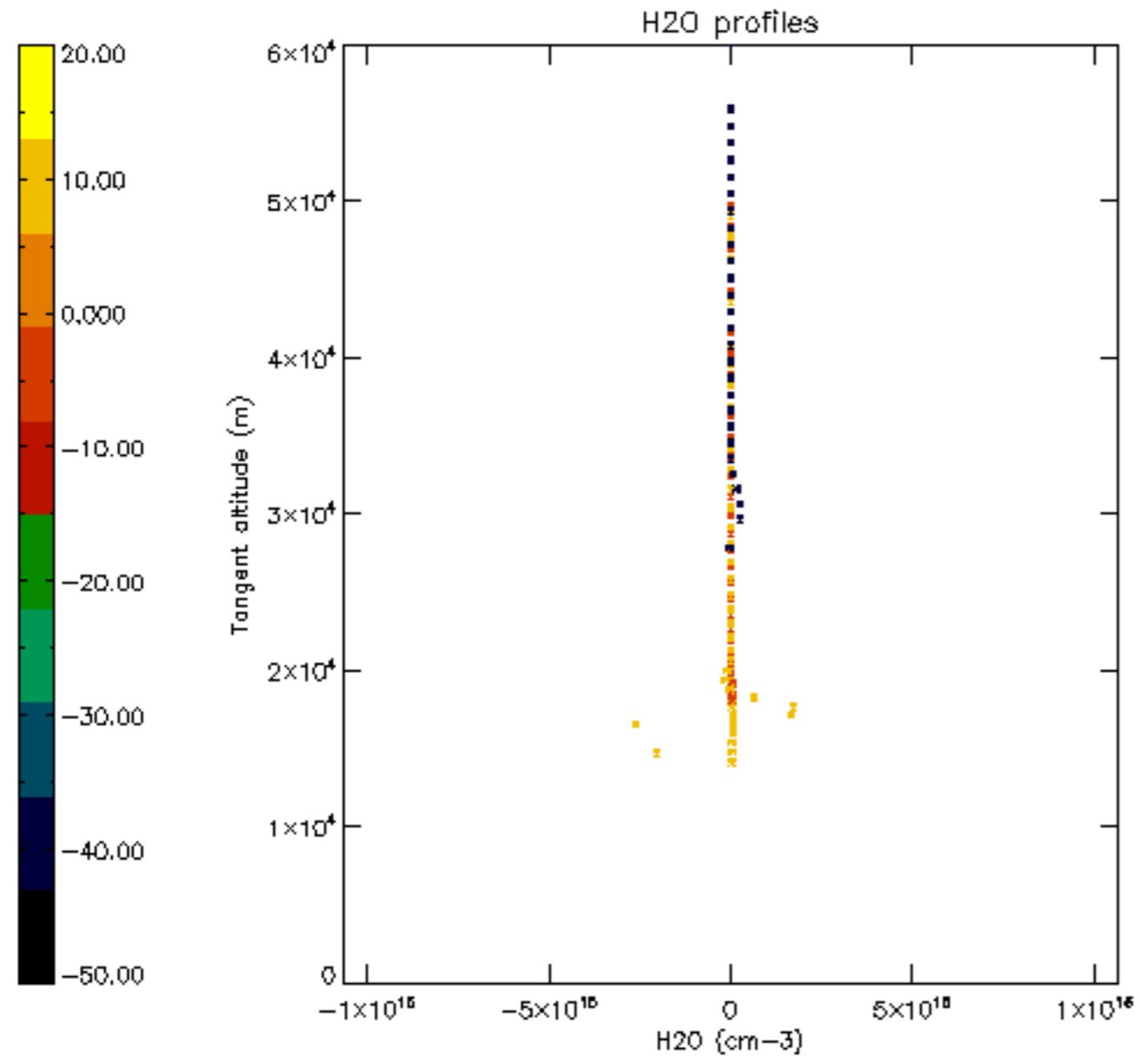


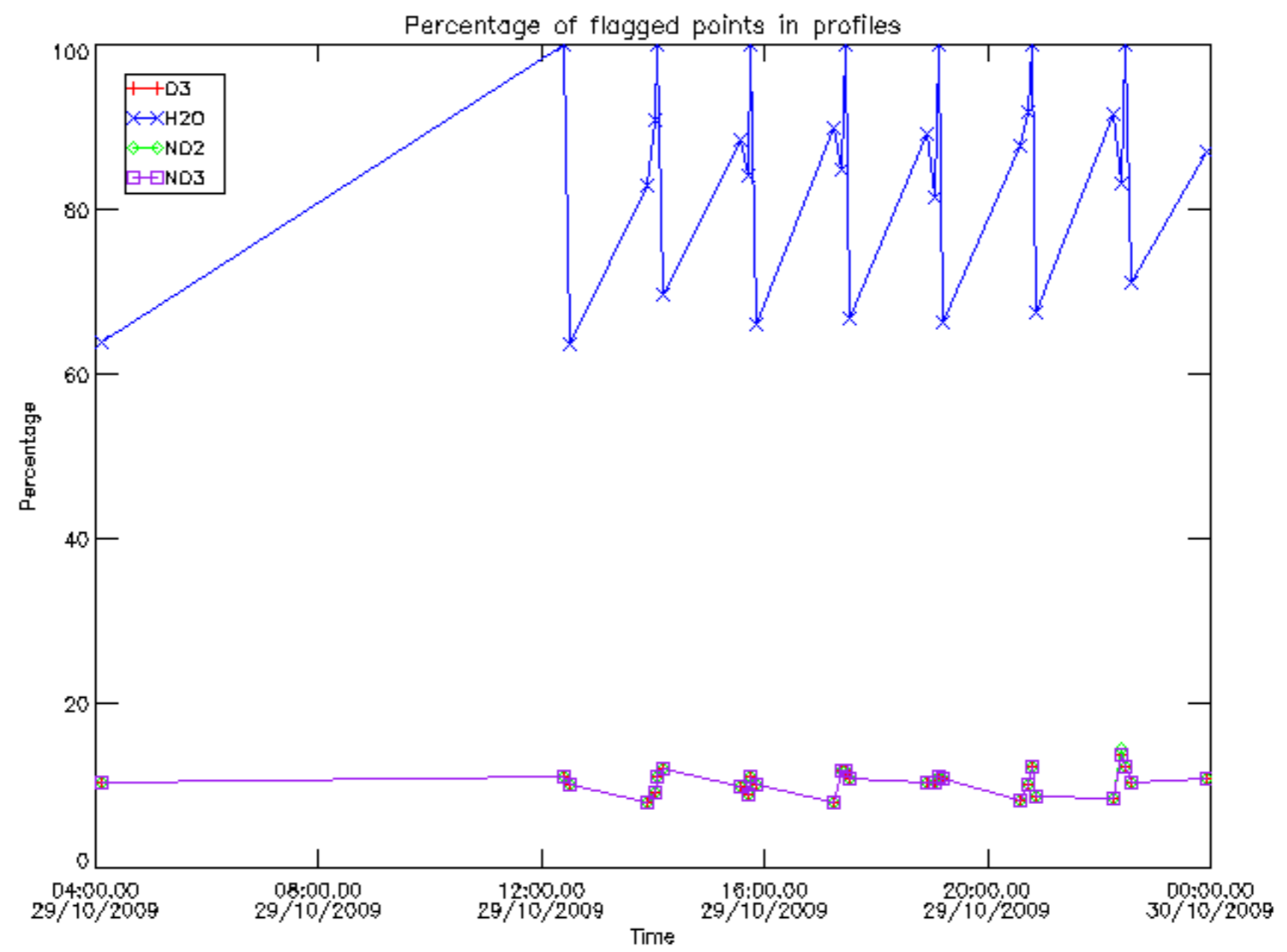




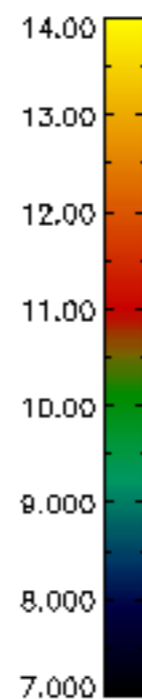
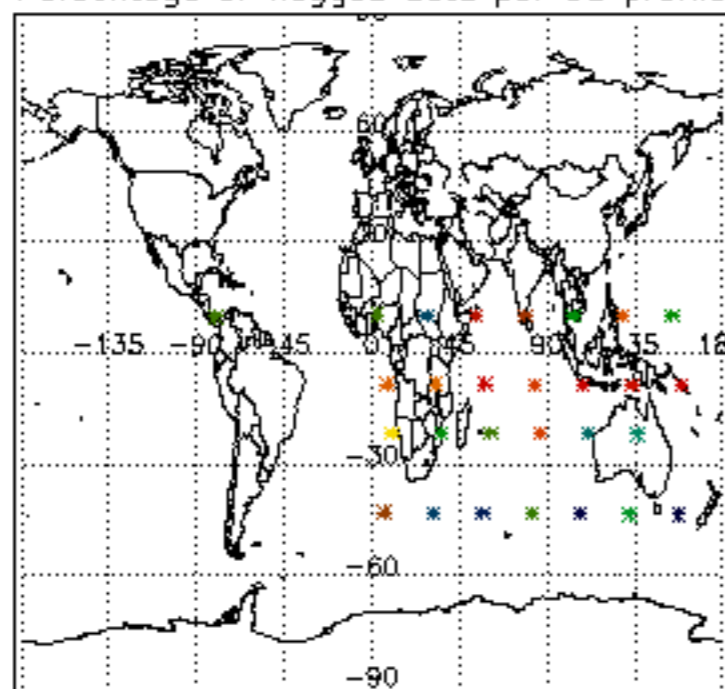




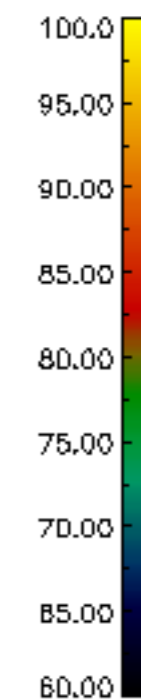
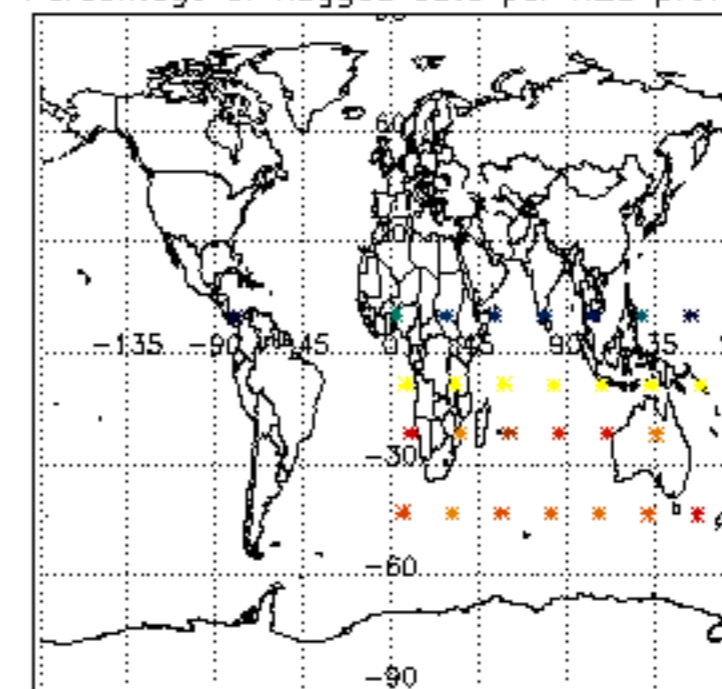




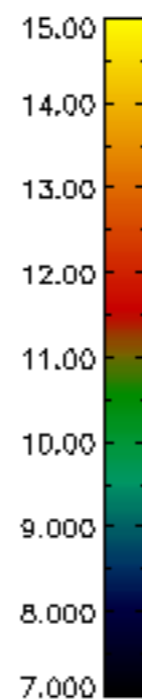
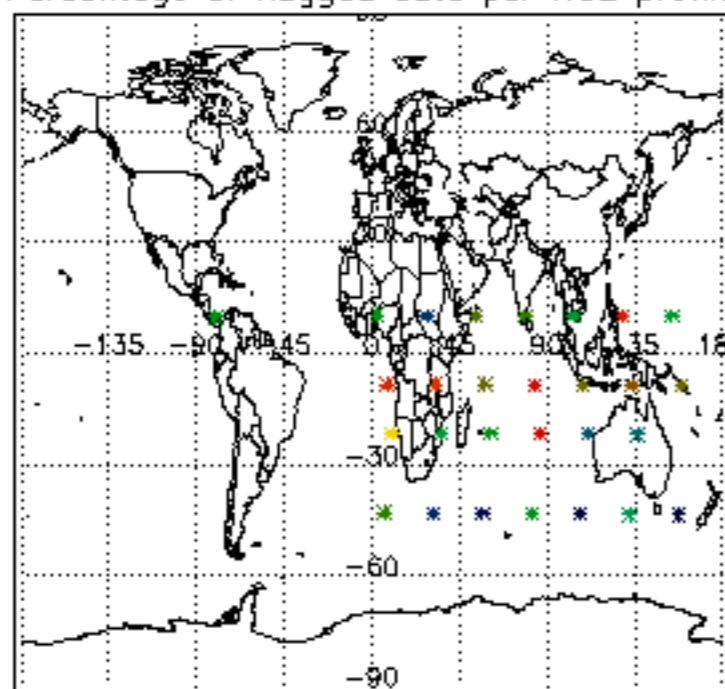
Percentage of flagged data per D3 profile



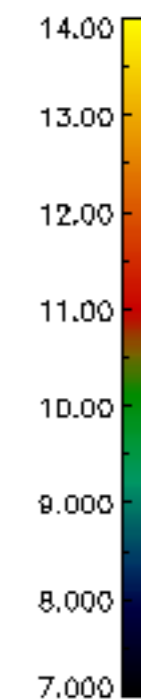
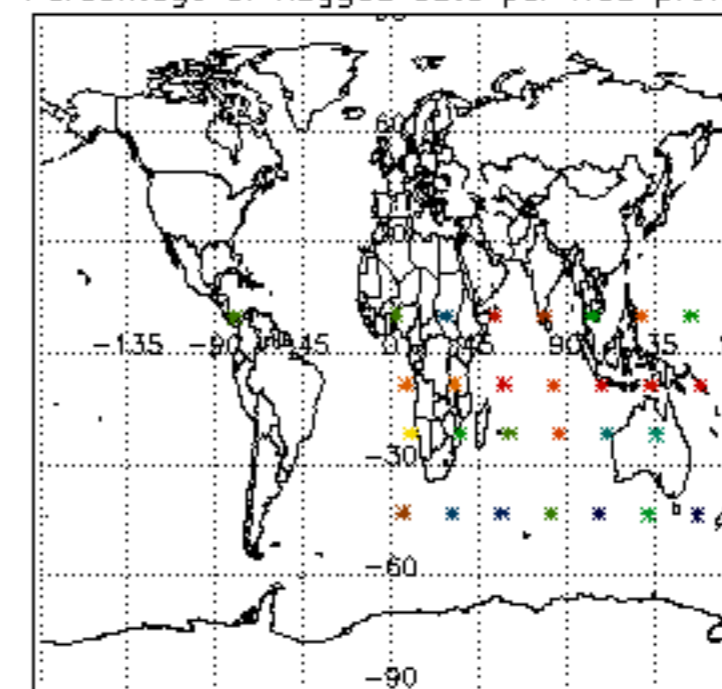
Percentage of flagged data per H2O profile

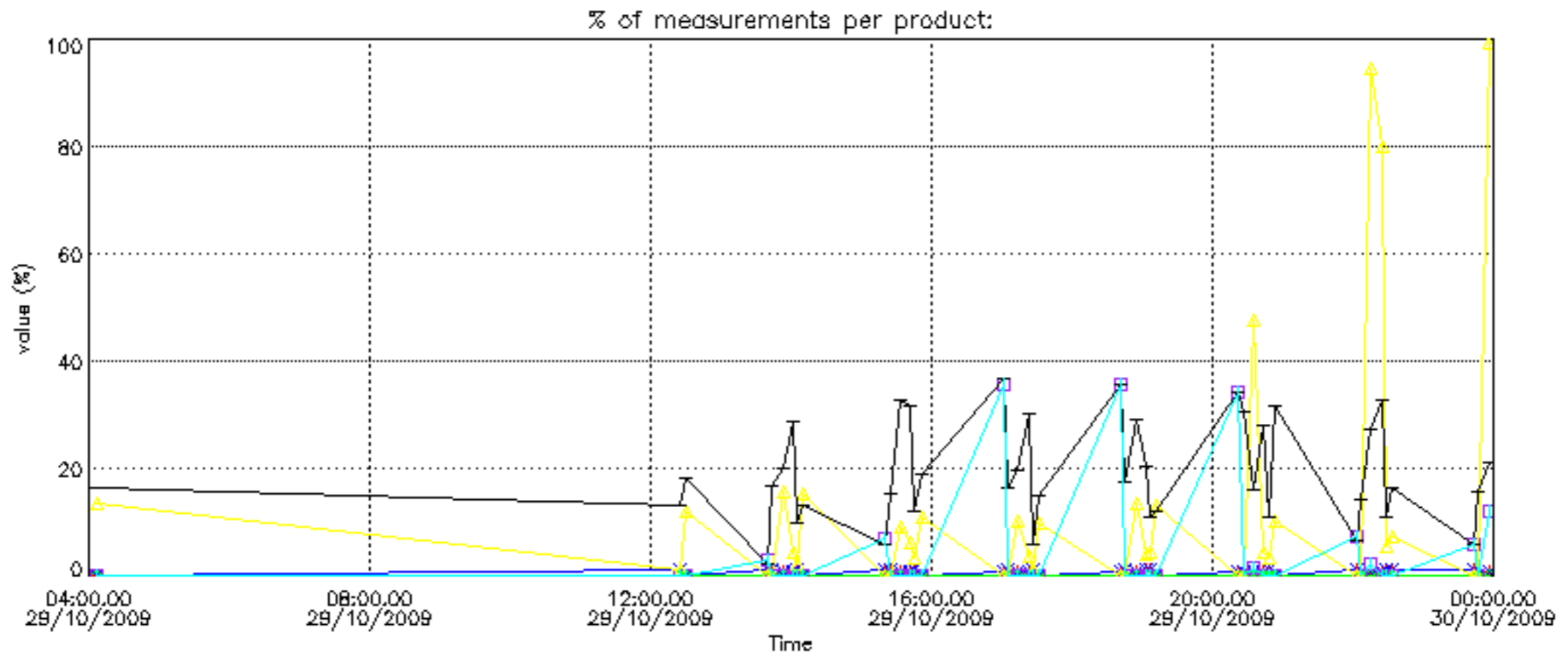


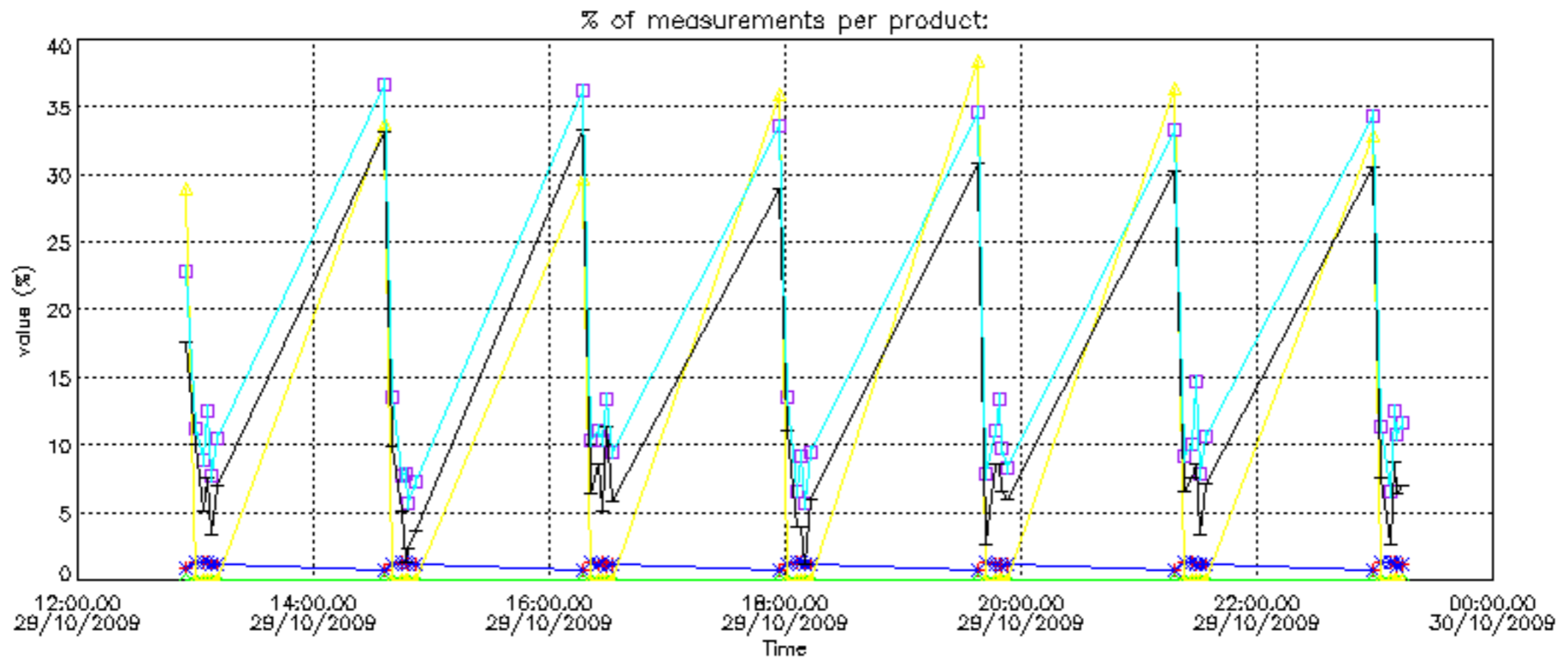
Percentage of flagged data per NO2 profile



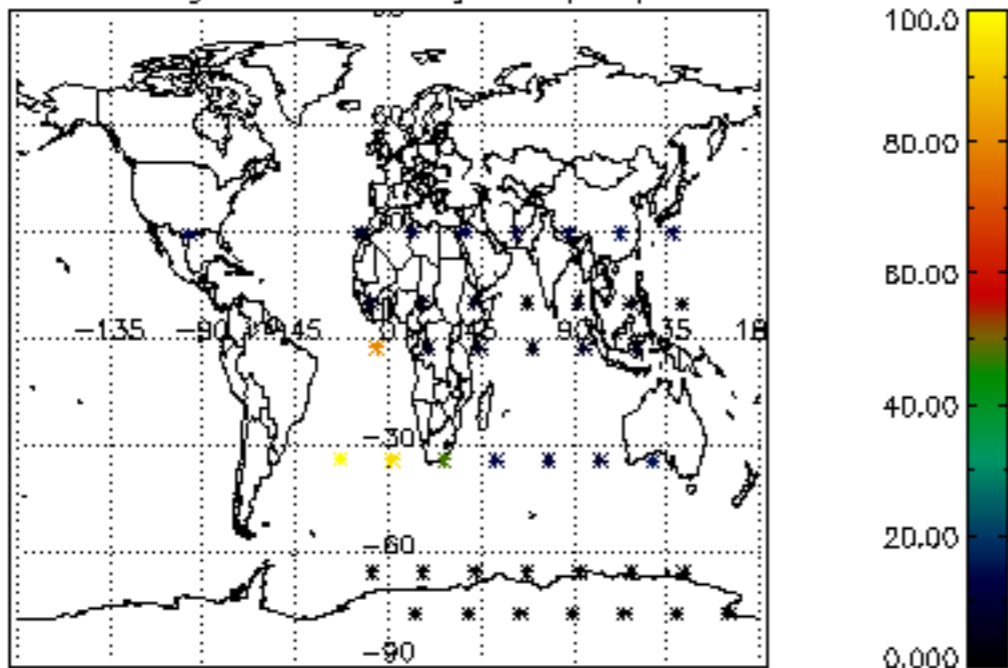
Percentage of flagged data per NO3 profile



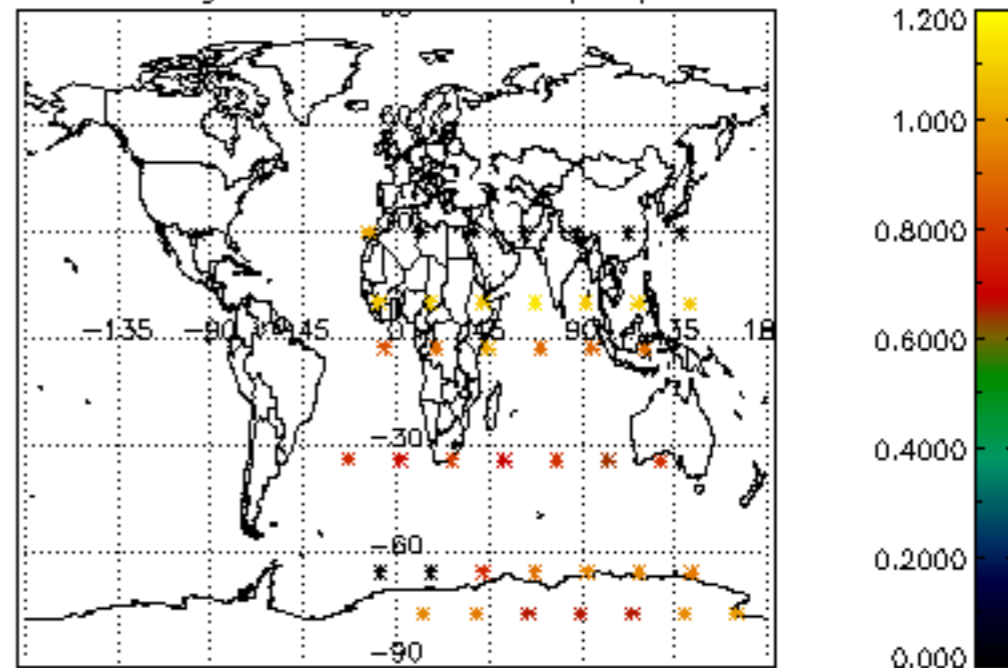




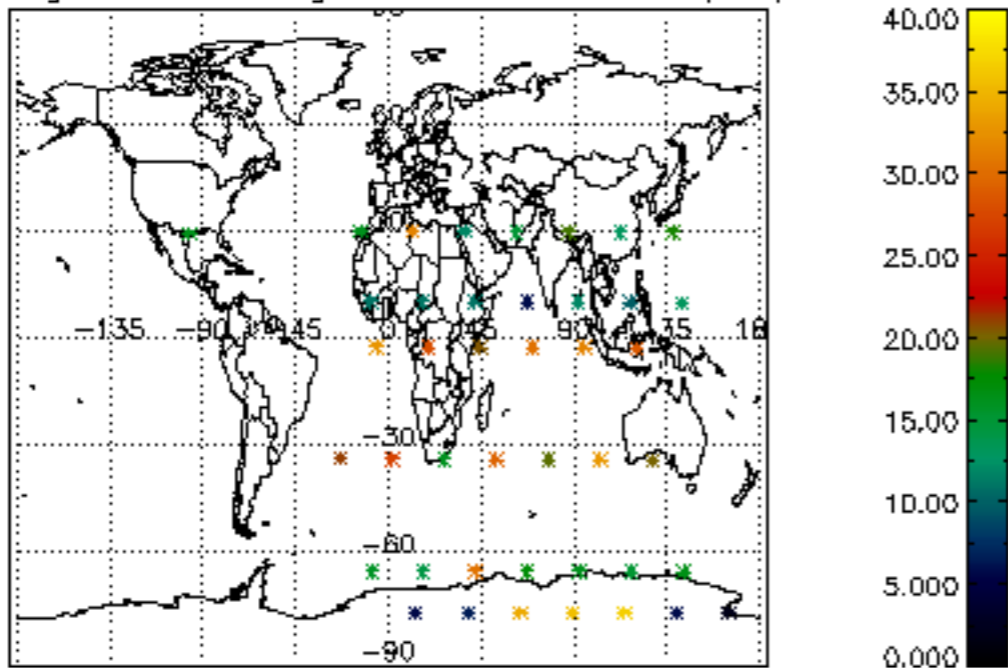
Percentage of cosmic ray hits per profile



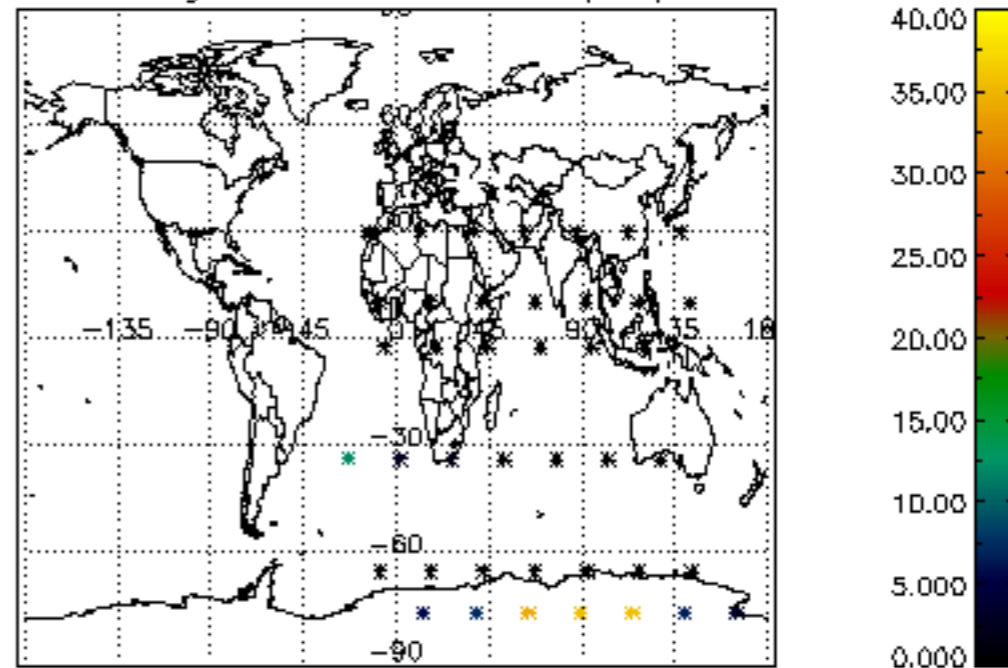
Percentage of datation errors per profile



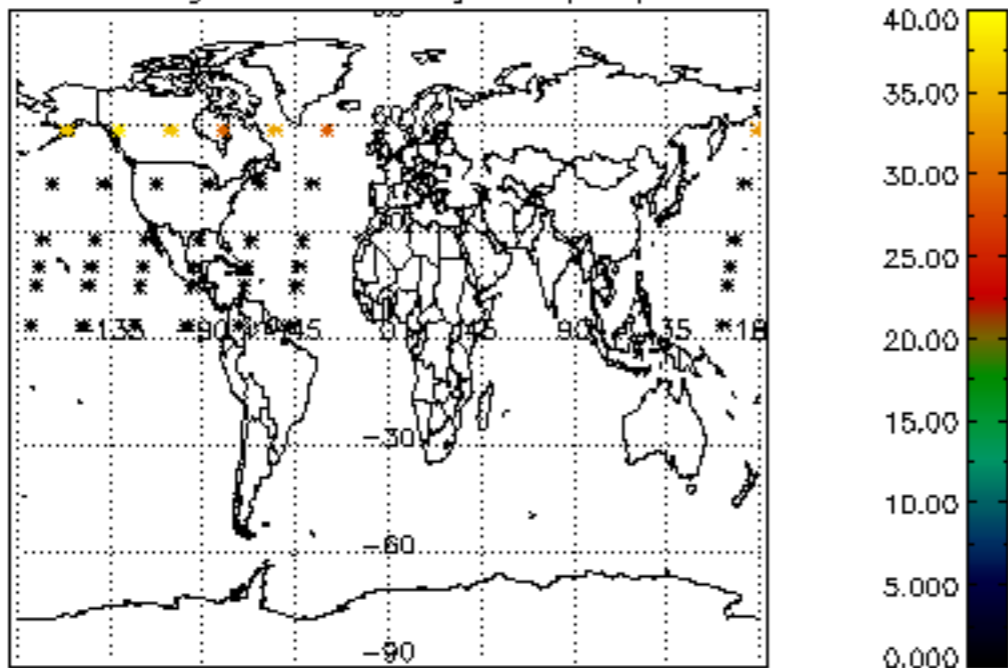
Percentage of star falling outside central band per profile



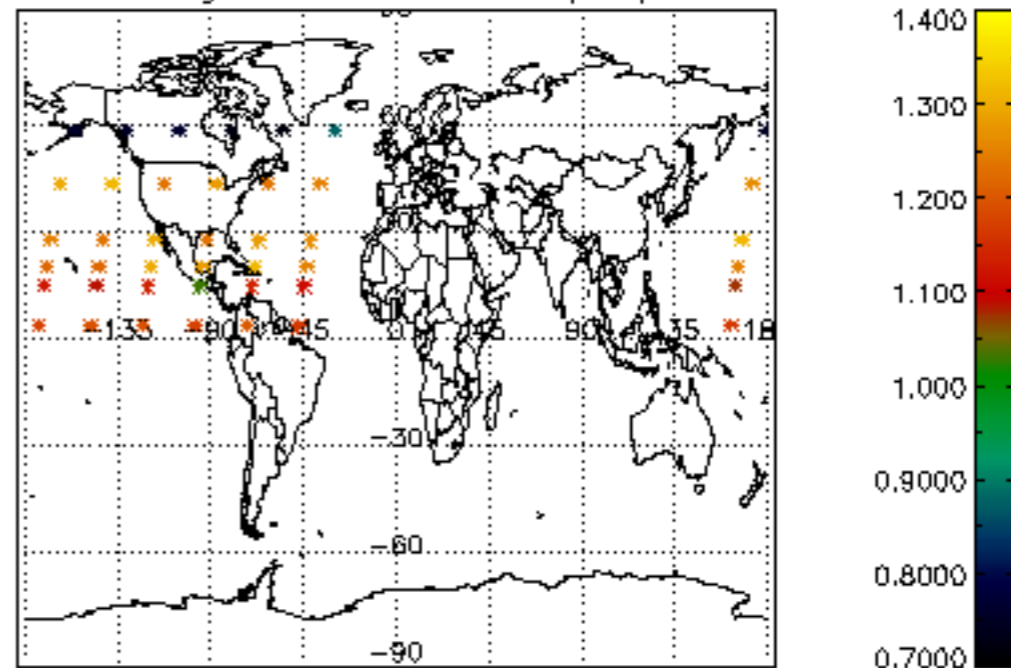
Percentage of saturation errors per profile



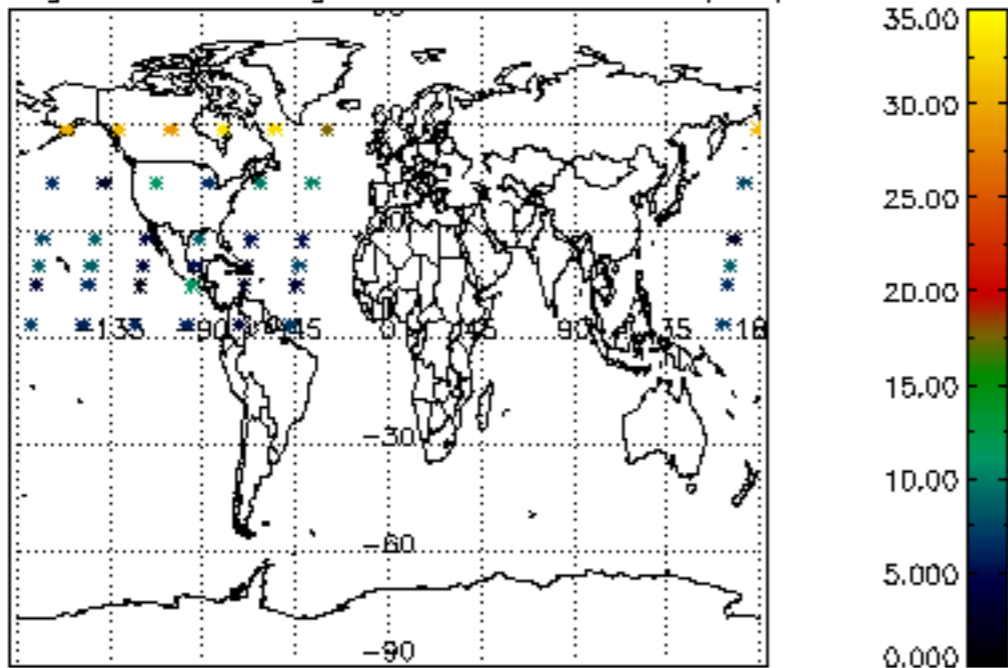
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

