

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	29APR2013 10:28:04
Data source version	GOMOS/6.01
Start time of products	06-05-2010 (06MAY2010 00:00:00)
Stop time of products	07-05-2010 (07MAY2010 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	241
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

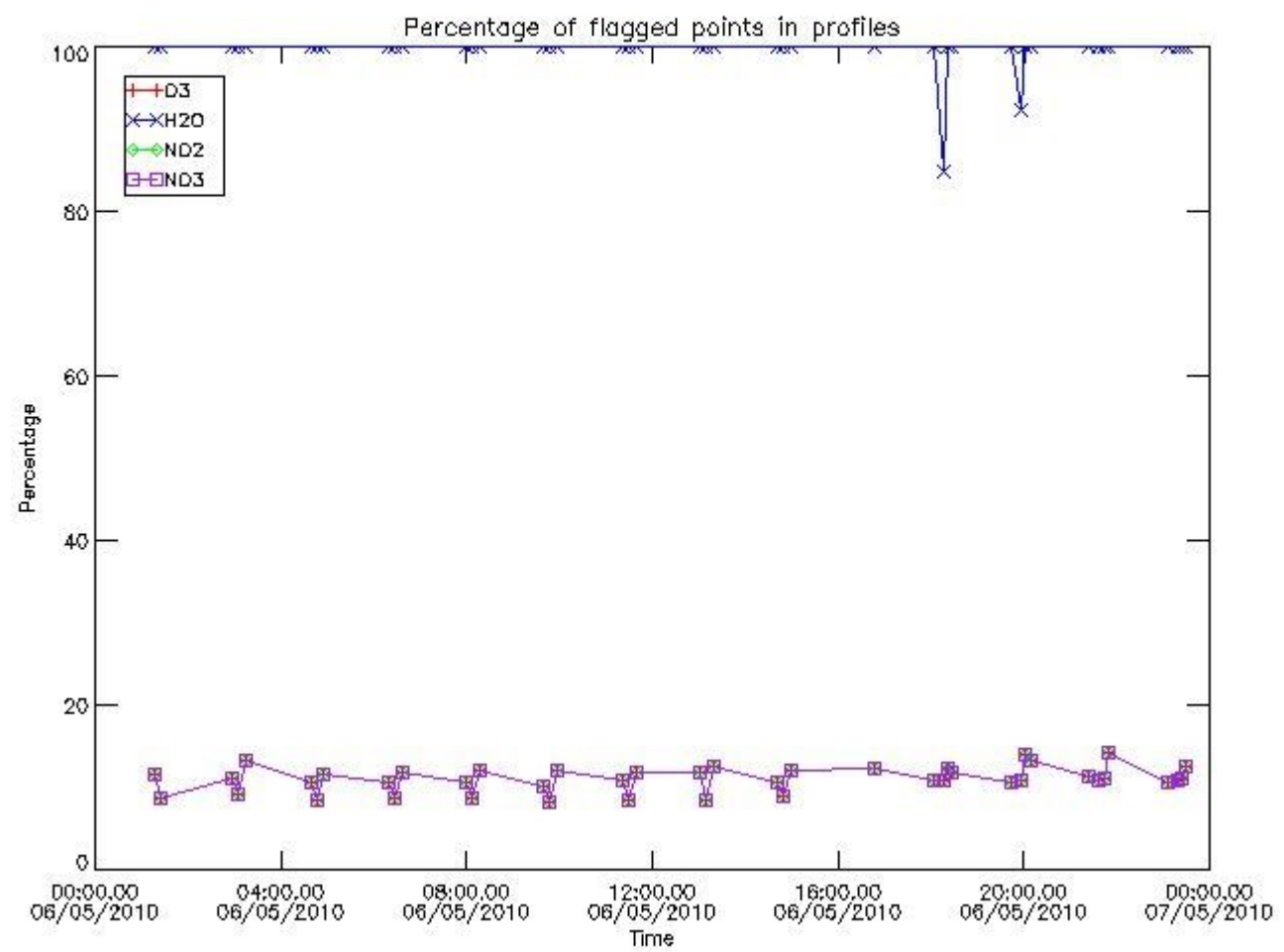
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20100506_001007_000000692089_00131_42770_8083.N1	06-MAY-2010 00:10:07	Straylight	69.000	38	20Eps Sgr	1.8360	11000.	138	42770	No
2	GOM_NL__2PRFIN20100506_001225_000000582089_00131_42770_8084.N1	06-MAY-2010 00:12:25	Straylight	58.000	25	35Lam Sco	1.6200	28000.	116	42770	No
3	GOM_NL__2PRFIN20100506_001516_000000582089_00131_42770_8085.N1	06-MAY-2010 00:15:16	Straylight	58.000	75	26Eps Sco	2.2910	4250.0	116	42770	No
4	GOM_NL__2PRFIN20100506_001847_000000752089_00131_42770_8086.N1	06-MAY-2010 00:18:47	Twilight	75.000	16	21Alp Sco	1.0200	3000.0	150	42770	No
5	GOM_NL__2PRFIN20100506_002050_000000572089_00131_42770_8087.N1	06-MAY-2010 00:20:50	Twilight	56.500	80	7Del Sco	2.3160	30000.	113	42770	No
6	GOM_NL__2PRFIN20100506_002348_000000422089_00131_42770_8088.N1	06-MAY-2010 00:23:48	Bright	41.500	122	9Alp2Lib	2.7470	9700.0	83	42770	No
7	GOM_NL__2PRFIN20100506_002555_000000462089_00131_42770_8089.N1	06-MAY-2010 00:25:55	Bright	46.000	104	27Bet Lib	2.6140	13100.	92	42770	No
8	GOM_NL__2PRFIN20100506_003217_000000572089_00131_42770_8090.N1	06-MAY-2010 00:32:17	Bright	56.500	102	24Alp Ser	2.6000	4250.0	113	42770	No
9	GOM_NL__2PRFIN20100506_003438_000000432089_00131_42770_8091.N1	06-MAY-2010 00:34:38	Bright	42.500	3	16Alp Boo	-0.050000	4250.0	85	42770	No
10	GOM_NL__2PRFIN20100506_003734_000000462089_00131_42770_8092.N1	06-MAY-2010 00:37:34	Bright	45.500	83		2.3780	11000.	91	42770	No
11	GOM_NL__2PRFIN20100506_004038_000000392089_00131_42770_8093.N1	06-MAY-2010 00:40:38	Bright	38.500	180	27Gam Boo	3.0400	8000.0	77	42770	No
12	GOM_NL__2PRFIN20100506_004959_000000442089_00131_42770_8094.N1	06-MAY-2010 00:49:59	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	42770	No
13	GOM_NL__2PRFIN20100506_010036_000000422089_00131_42770_8095.N1	06-MAY-2010 01:00:36	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	42770	No
14	GOM_NL__2PRFIN20100506_011259_000000522089_00131_42770_8096.N1	06-MAY-2010 01:12:59	Twilight	52.000	93	53Bet Peg	2.5200	3100.0	104	42770	No
15	GOM_NL__2PRFIN20100506_011708_000000442089_00131_42770_8097.N1	06-MAY-2010 01:17:08	Dark	44.000	90	54Alp Peg	2.4870	11000.	88	42770	No
16	GOM_NL__2PRFIN20100506_012429_000000592089_00131_42770_8098.N1	06-MAY-2010 01:24:29	Dark	59.000	162	34Alp Aqr	2.9440	5350.0	118	42770	No
17	GOM_NL__2PRFIN20100506_015044_000000642089_00132_42771_8091.N1	06-MAY-2010 01:50:44	Straylight	64.000	38	20Eps Sgr	1.8360	11000.	128	42771	No
18	GOM_NL__2PRFIN20100506_015302_000000572089_00132_42771_8092.N1	06-MAY-2010 01:53:02	Straylight	56.500	25	35Lam Sco	1.6200	28000.	113	42771	No
19	GOM_NL__2PRFIN20100506_015553_000000552089_00132_42771_8093.N1	06-MAY-2010 01:55:53	Straylight	55.000	75	26Eps Sco	2.2910	4250.0	110	42771	No
20	GOM_NL__2PRFIN20100506_015924_000000652089_00132_42771_8094.N1	06-MAY-2010 01:59:24	Twilight	65.000	16	21Alp Sco	1.0200	3000.0	130	42771	No
21	GOM_NL__2PRFIN20100506_020126_000000582089_00132_42771_8095.N1	06-MAY-2010 02:01:26	Twilight	58.000	80	7Del Sco	2.3160	30000.	116	42771	No
22	GOM_NL__2PRFIN20100506_020424_000000402089_00132_42771_8096.N1	06-MAY-2010 02:04:24	Bright	40.000	122	9Alp2Lib	2.7470	9700.0	80	42771	No
23	GOM_NL__2PRFIN20100506_020632_000000452089_00132_42771_8097.N1	06-MAY-2010 02:06:32	Bright	45.000	104	27Bet Lib	2.6140	13100.	90	42771	No
24	GOM_NL__2PRFIN20100506_021252_000000582089_00132_42771_8098.N1	06-MAY-2010 02:12:52	Bright	57.500	102	24Alp Ser	2.6000	4250.0	115	42771	No
25	GOM_NL__2PRFIN20100506_021514_000000422089_00132_42771_8099.N1	06-MAY-2010 02:15:14	Bright	42.000	3	16Alp Boo	-0.050000	4250.0	84	42771	No
26	GOM_NL__2PRFIN20100506_021809_000000432089_00132_42771_8100.N1	06-MAY-2010 02:18:09	Bright	43.000	83		2.3780	11000.	86	42771	No
27	GOM_NL__2PRFIN20100506_022113_000000402089_00132_42771_8101.N1	06-MAY-2010 02:21:13	Bright	40.000	180	27Gam Boo	3.0400	8000.0	80	42771	No
28	GOM_NL__2PRFIN20100506_023034_000000442089_00132_42771_8102.N1	06-MAY-2010 02:30:34	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	42771	No
29	GOM_NL__2PRFIN20100506_024112_000000612089_00132_42771_8103.N1	06-MAY-2010 02:41:12	Bright	60.500	89	5Alp Cep	2.4510	8000.0	121	42771	No
30	GOM_NL__2PRFIN20100506_025336_000000512089_00132_42771_8104.N1	06-MAY-2010 02:53:36	Twilight	50.500	93	53Bet Peg	2.5200	3100.0	101	42771	No
31	GOM_NL__2PRFIN20100506_025744_000000462089_00132_42771_8105.N1	06-MAY-2010 02:57:44	Dark	45.500	90	54Alp Peg	2.4870	11000.	91	42771	No
32	GOM_NL__2PRFIN20100506_030506_000000612089_00132_42771_8106.N1	06-MAY-2010 03:05:06	Dark	60.500	162	34Alp Aqr	2.9440	5350.0	121	42771	No
33	GOM_NL__2PRFIN20100506_031519_000000432089_00132_42771_8107.N1	06-MAY-2010 03:15:19	Dark	42.500	172	Gam Gru	3.0030	13100.	85	42771	No
34	GOM_NL__2PRFIN20100506_033121_000000742089_00133_42772_8099.N1	06-MAY-2010 03:31:21	Straylight	73.500	38	20Eps Sgr	1.8360	11000.	147	42772	No
35	GOM_NL__2PRFIN20100506_033338_000000592089_00133_42772_8100.N1	06-MAY-2010 03:33:38	Straylight	58.500	25	35Lam Sco	1.6200	28000.	117	42772	No
36	GOM_NL__2PRFIN20100506_033629_000000572089_00133_42772_8101.N1	06-MAY-2010 03:36:29	Straylight	56.500	75	26Eps Sco	2.2910	4250.0	113	42772	No
37	GOM_NL__2PRFIN20100506_034000_000000732089_00133_42772_8102.N1	06-MAY-2010 03:40:00	Twilight	72.500	16	21Alp Sco	1.0200	3000.0	145	42772	No
38	GOM_NL__2PRFIN20100506_034202_000000592089_00133_42772_8103.N1	06-MAY-2010 03:42:02	Twilight	59.000	80	7Del Sco	2.3160	30000.	118	42772	No
39	GOM_NL__2PRFIN20100506_034500_000000422089_00133_42772_8104.N1	06-MAY-2010 03:45:00	Bright	41.500	122	9Alp2Lib	2.7470	9700.0	83	42772	No
40	GOM_NL__2PRFIN20100506_034707_000000442089_00133_42772_8105.N1	06-MAY-2010 03:47:07	Bright	43.500	104	27Bet Lib	2.6140	13100.	87	42772	No
41	GOM_NL__2PRFIN20100506_035328_000000542089_00133_42772_8106.N1	06-MAY-2010 03:53:28	Bright	54.000	102	24Alp Ser	2.6000	4250.0	108	42772	No
42	GOM_NL__2PRFIN20100506_035550_000000402089_00133_42772_8107.N1	06-MAY-2010 03:55:50	Bright	40.000	3	16Alp Boo	-0.050000	4250.0	80	42772	No

220	GOM_NL__2PRFIN20100506_221342_000000462089_00144_42783_8215.N1	06-MAY-2010 22:13:42	Bright	45.500	104	27Bet Lib	2.6140	13100.	91	42783	No
221	GOM_NL__2PRFIN20100506_222201_000000372089_00144_42783_8216.N1	06-MAY-2010 22:22:01	Bright	36.500	111	8Eta Boo	2.6800	6000.0	73	42783	No
222	GOM_NL__2PRFIN20100506_222516_000000412089_00144_42783_8217.N1	06-MAY-2010 22:25:16	Bright	41.000	83		2.3780	11000.	82	42783	No
223	GOM_NL__2PRFIN20100506_222821_000000412089_00144_42783_8218.N1	06-MAY-2010 22:28:21	Bright	40.500	180	27Gam Boo	3.0400	8000.0	81	42783	No
224	GOM_NL__2PRFIN20100506_223052_000000392089_00144_42783_8219.N1	06-MAY-2010 22:30:52	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	42783	No
225	GOM_NL__2PRFIN20100506_223219_000000362089_00144_42783_8220.N1	06-MAY-2010 22:32:19	Bright	35.500	55	79Zet UMa	2.0600	10200.	71	42783	No
226	GOM_NL__2PRFIN20100506_223738_000000442089_00144_42783_8221.N1	06-MAY-2010 22:37:38	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	42783	No
227	GOM_NL__2PRFIN20100506_224818_000000442089_00144_42783_8222.N1	06-MAY-2010 22:48:18	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	42783	No
228	GOM_NL__2PRFIN20100506_225103_000000532089_00144_42783_8223.N1	06-MAY-2010 22:51:03	Bright	53.000	74	11Bet Cas	2.2680	6600.0	106	42783	No
229	GOM_NL__2PRFIN20100506_230049_000000612089_00144_42783_8224.N1	06-MAY-2010 23:00:49	Twilight	60.500	93	53Bet Peg	2.5200	3100.0	121	42783	No
230	GOM_NL__2PRFIN20100506_230500_000000482089_00144_42783_8225.N1	06-MAY-2010 23:05:00	Dark	47.500	90	54Alp Peg	2.4870	11000.	95	42783	No
231	GOM_NL__2PRFIN20100506_231804_000000482089_00144_42783_8226.N1	06-MAY-2010 23:18:04	Dark	47.500	18	24Alp PsA	1.1660	9700.0	95	42783	No
232	GOM_NL__2PRFIN20100506_232354_000000502089_00144_42783_8227.N1	06-MAY-2010 23:23:54	Dark	50.000	31	Alp Gru	1.7340	15200.	100	42783	No
233	GOM_NL__2PRFIN20100506_232929_000000412089_00145_42784_8236.N1	06-MAY-2010 23:29:29	Dark	40.500	45	Alp Pav	1.9400	26000.	81	42784	No
234	GOM_NL__2PRFIN20100506_233659_000000422089_00145_42784_8237.N1	06-MAY-2010 23:36:59	Straylight	42.000	141	Bet Ara	2.8400	4600.0	84	42784	No
235	GOM_NL__2PRFIN20100506_233910_000000552089_00145_42784_8238.N1	06-MAY-2010 23:39:10	Straylight	55.000	40	The Sco	1.8590	7100.0	110	42784	No
236	GOM_NL__2PRFIN20100506_234105_000000392089_00145_42784_8239.N1	06-MAY-2010 23:41:05	Straylight	39.000	115	34Ups Sco	2.6960	26000.	78	42784	No
237	GOM_NL__2PRFIN20100506_234348_000000602089_00145_42784_8240.N1	06-MAY-2010 23:43:48	Straylight	59.500	75	26Eps Sco	2.2910	4250.0	119	42784	No
238	GOM_NL__2PRFIN20100506_234747_000000252089_00145_42784_8241.N1	06-MAY-2010 23:47:47	Twilight	25.000	156	20Sig Sco	2.9030	28000.	50	42784	No
239	GOM_NL__2PRFIN20100506_234916_000000532089_00145_42784_8242.N1	06-MAY-2010 23:49:16	Twilight	52.500	80	7Del Sco	2.3160	30000.	105	42784	No
240	GOM_NL__2PRFIN20100506_235213_000000412089_00145_42784_8243.N1	06-MAY-2010 23:52:13	Bright	41.000	122	9Alp2Lib	2.7470	9700.0	82	42784	No
241	GOM_NL__2PRFIN20100506_235418_000000452089_00145_42784_8244.N1	06-MAY-2010 23:54:18	Bright	45.000	104	27Bet Lib	2.6140	13100.	90	42784	No

3. Quality information per product

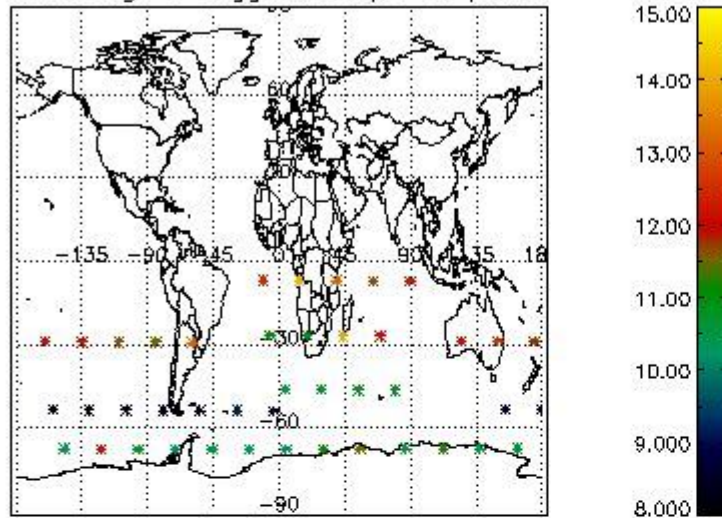
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

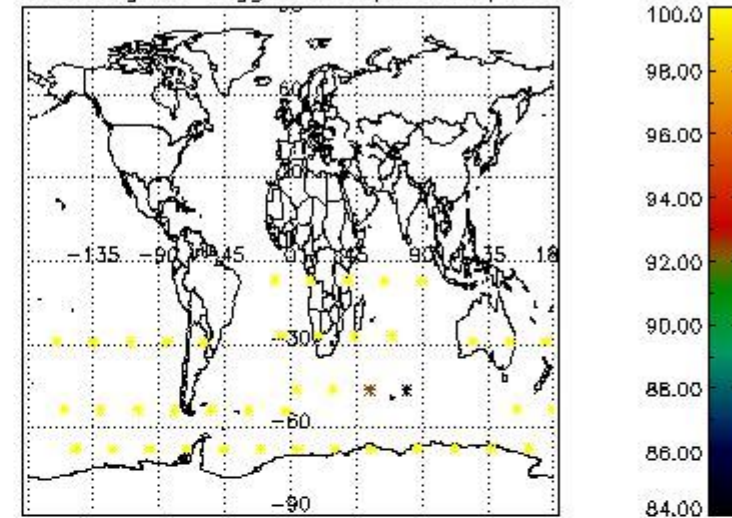


3.2 Plot quality information per product (world map)

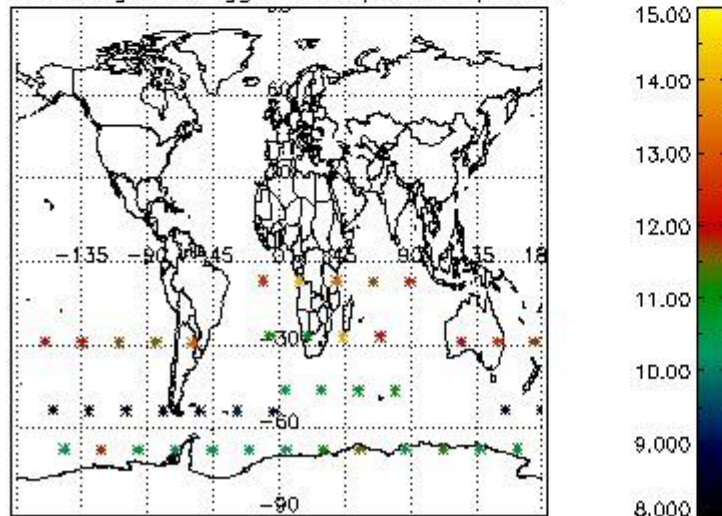
Percentage of flagged data per O3 profile



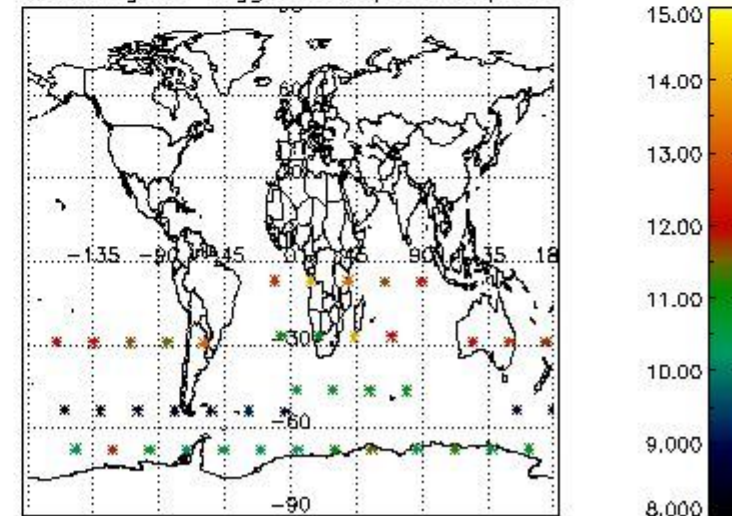
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

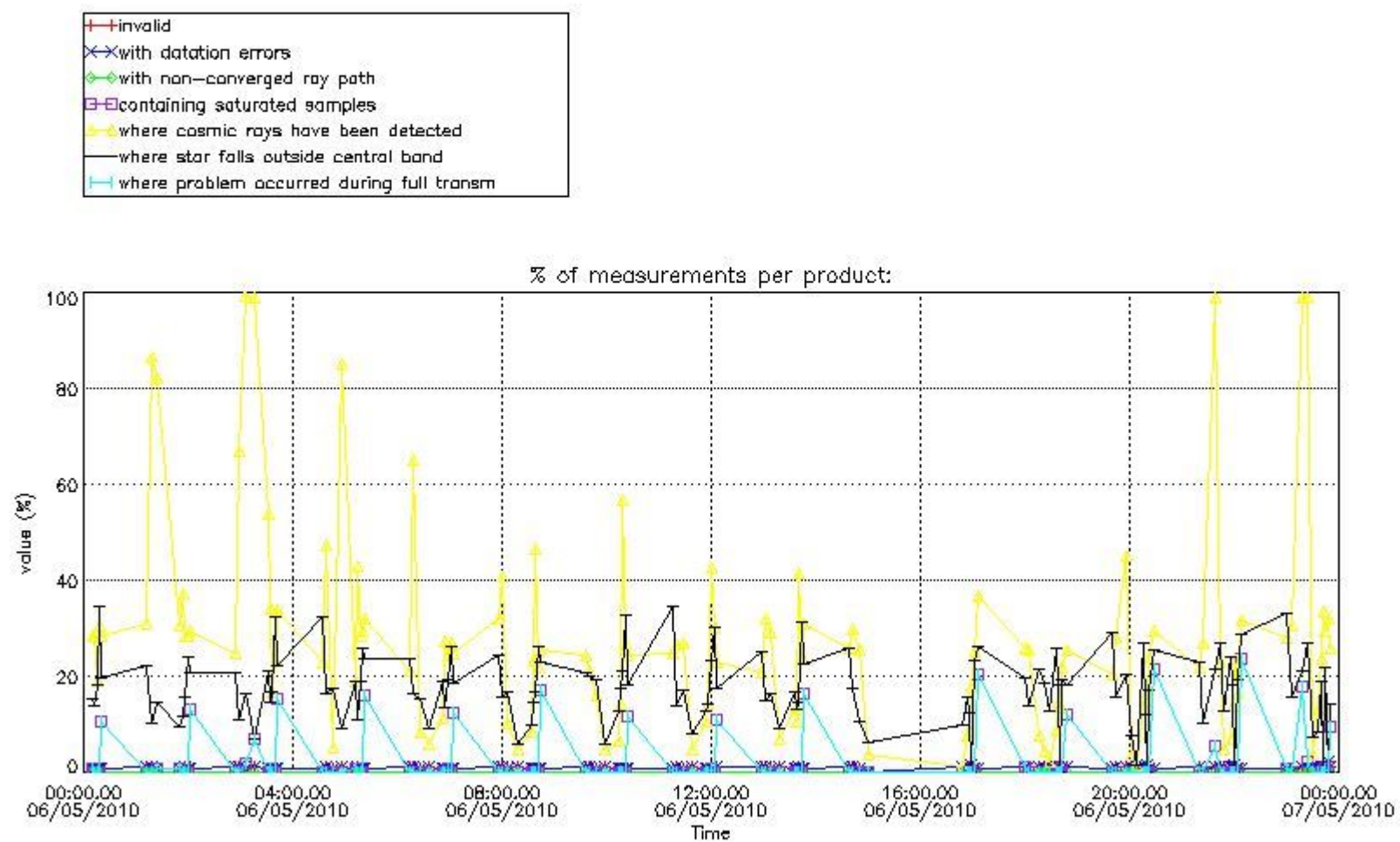


4. Level 1 quality information per product

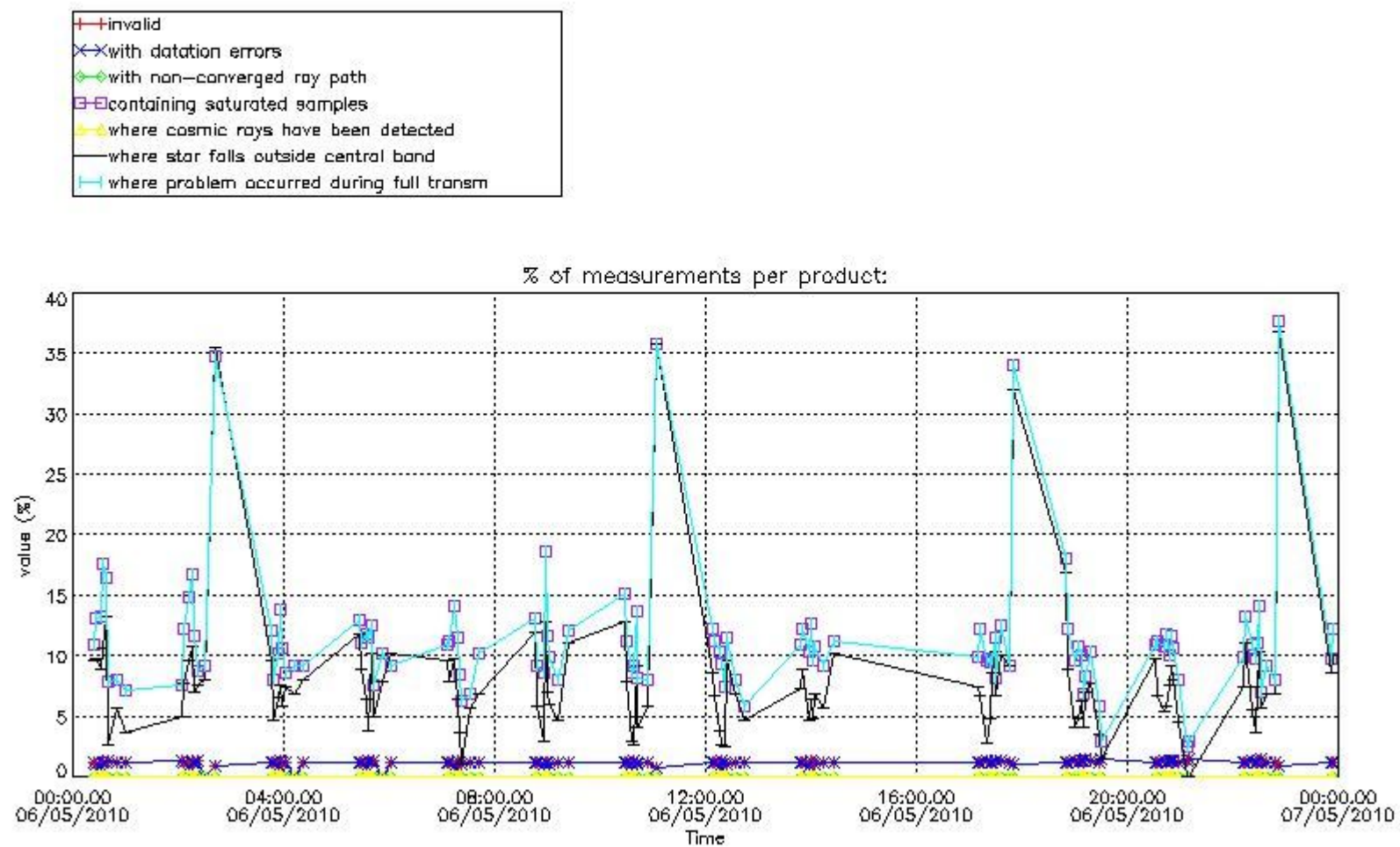
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

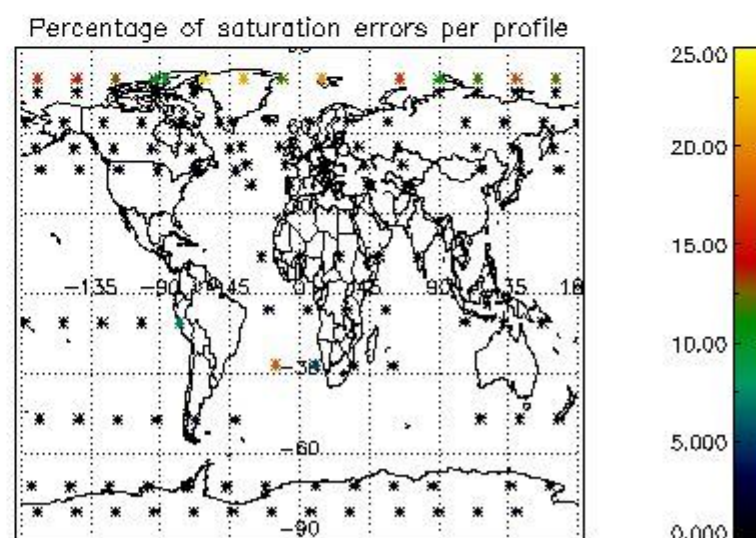
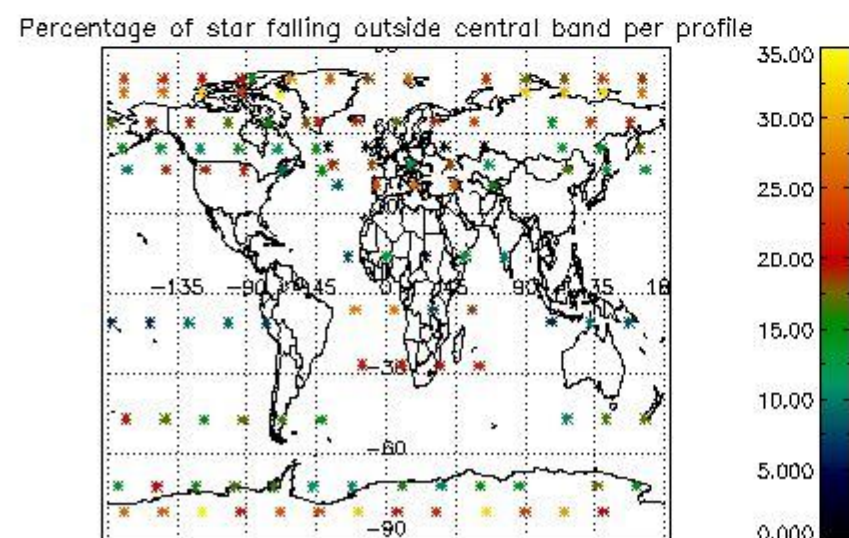
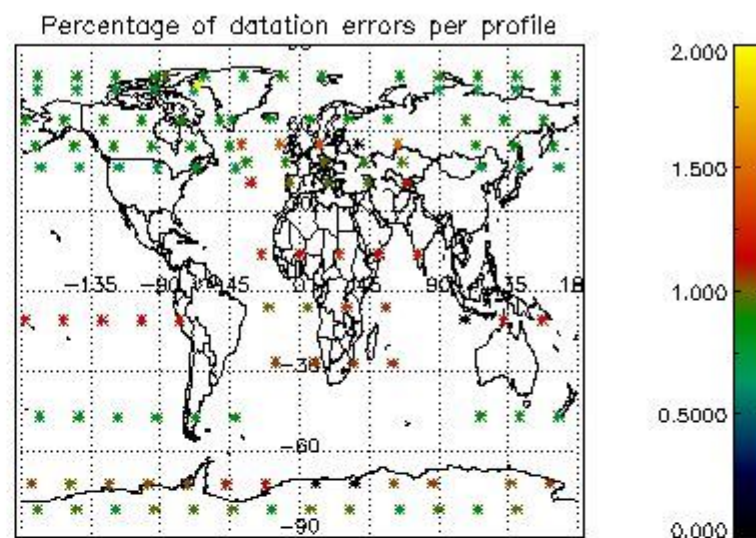
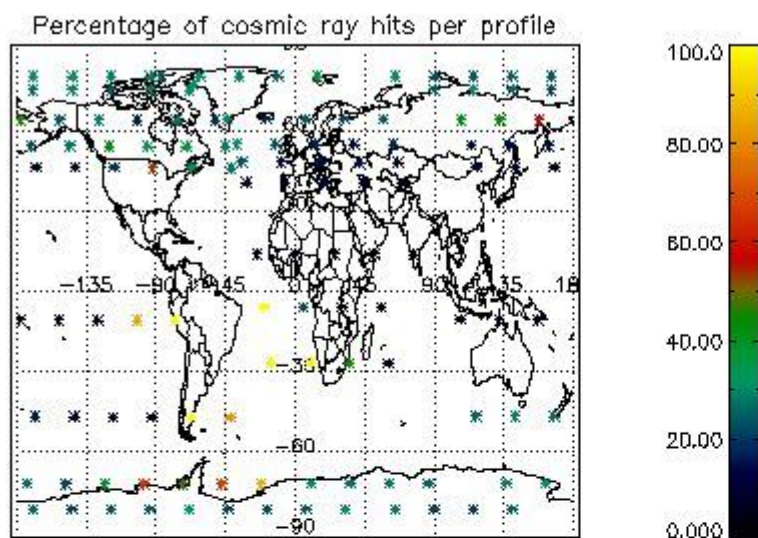


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

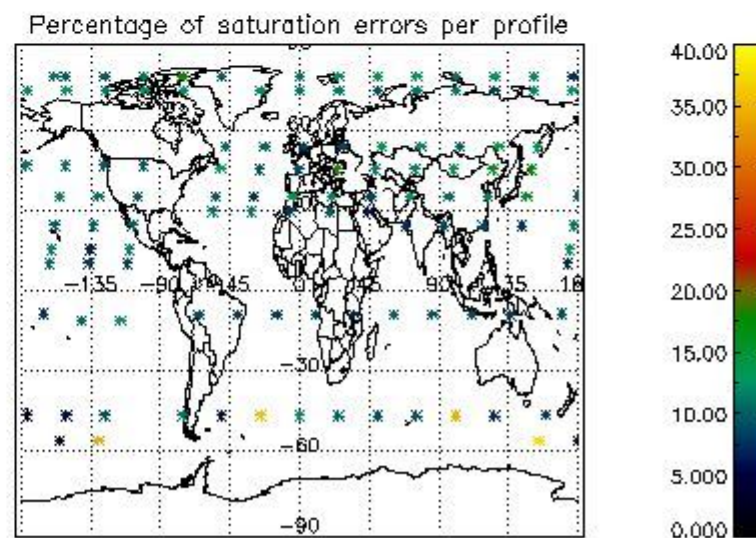
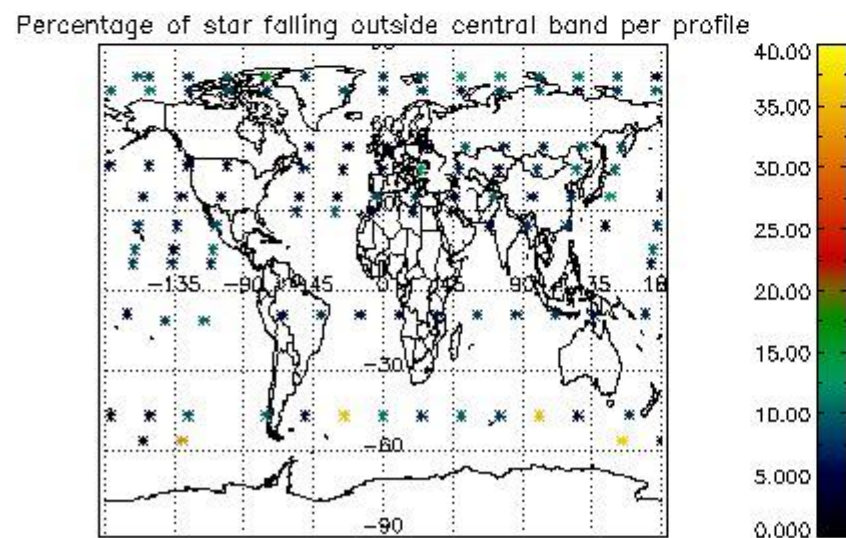
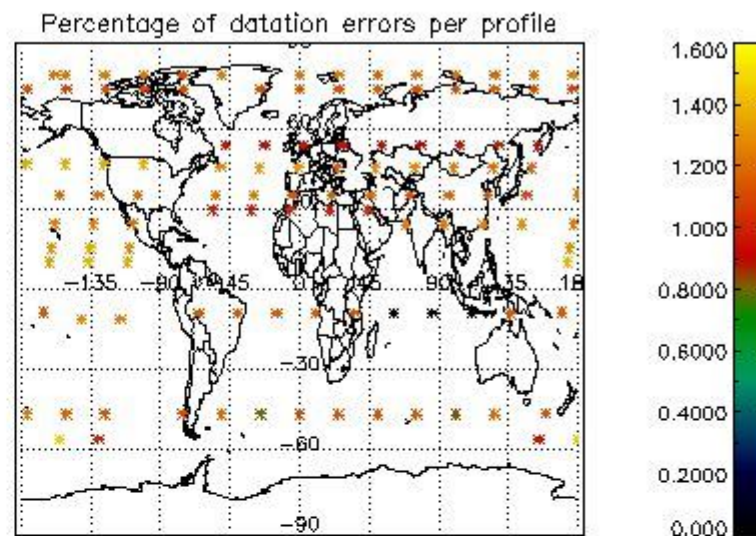
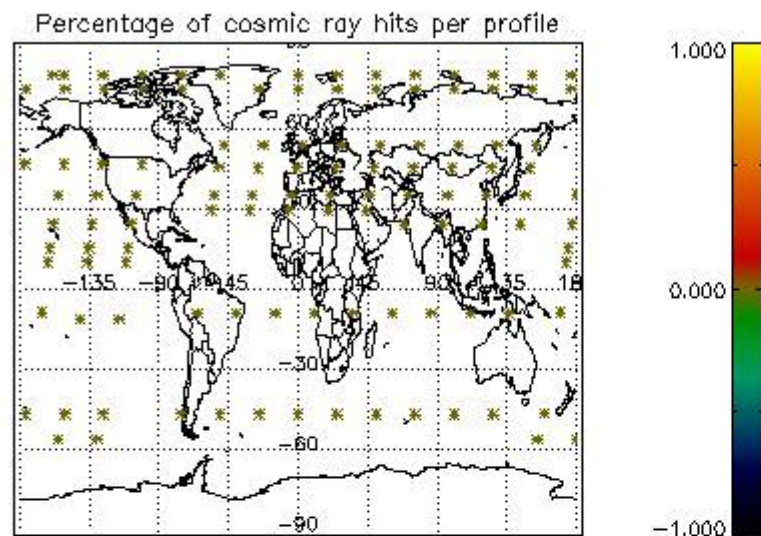


4.2 Plot quality information per product coming from level 1b processing (world map)

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

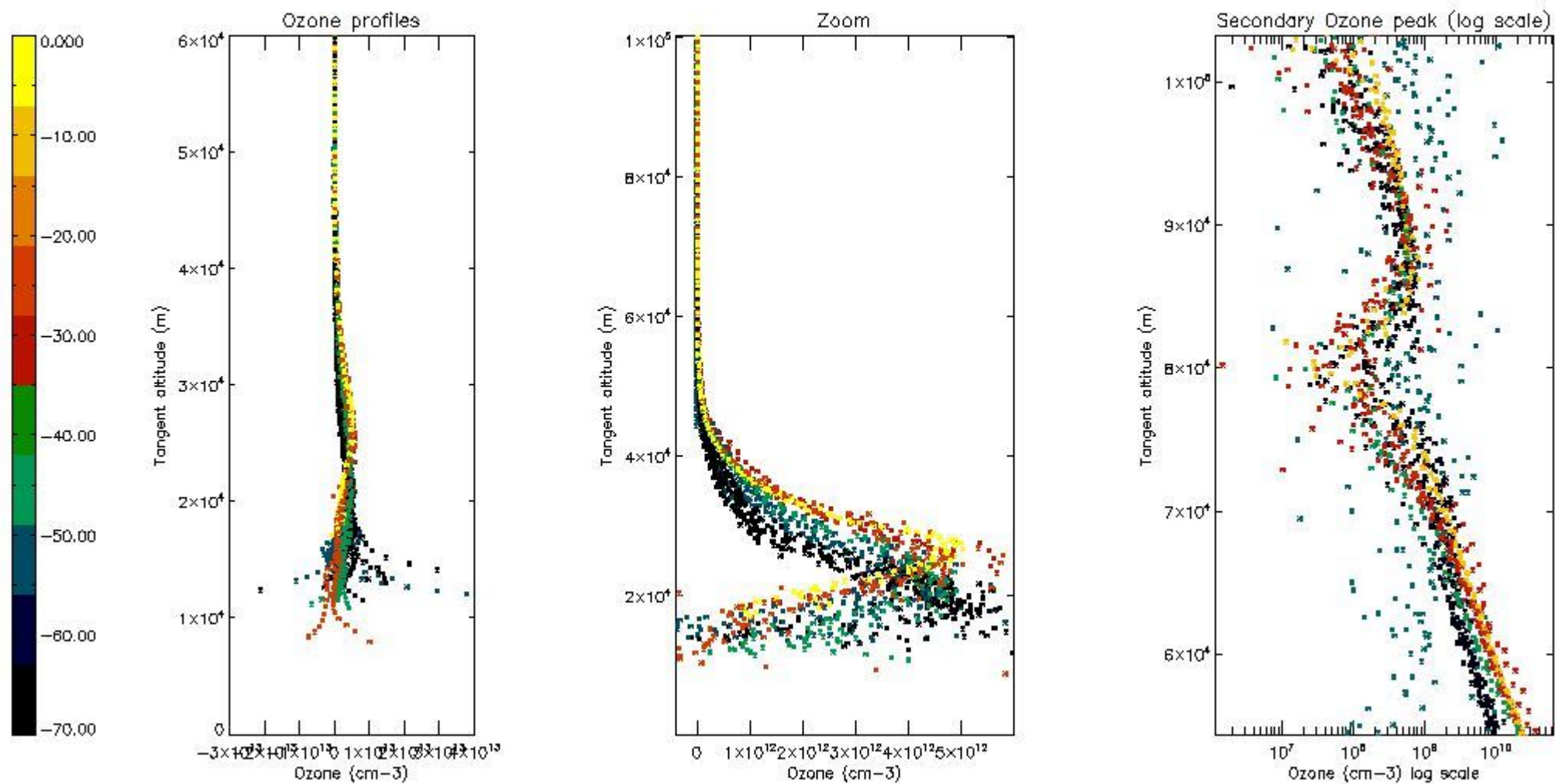
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	18
STD < 20	9

STD < 10	6
STD < 5	2

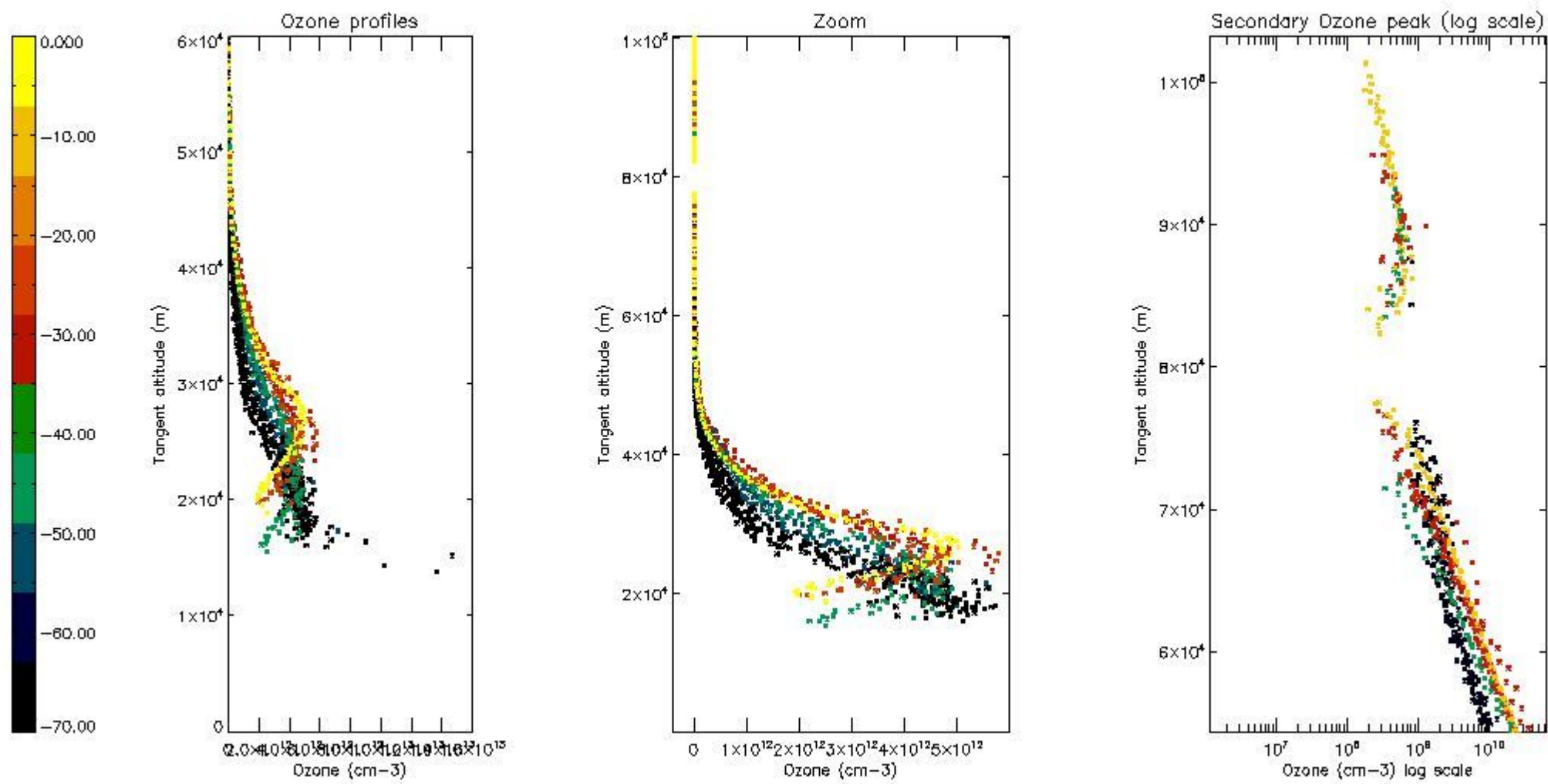
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



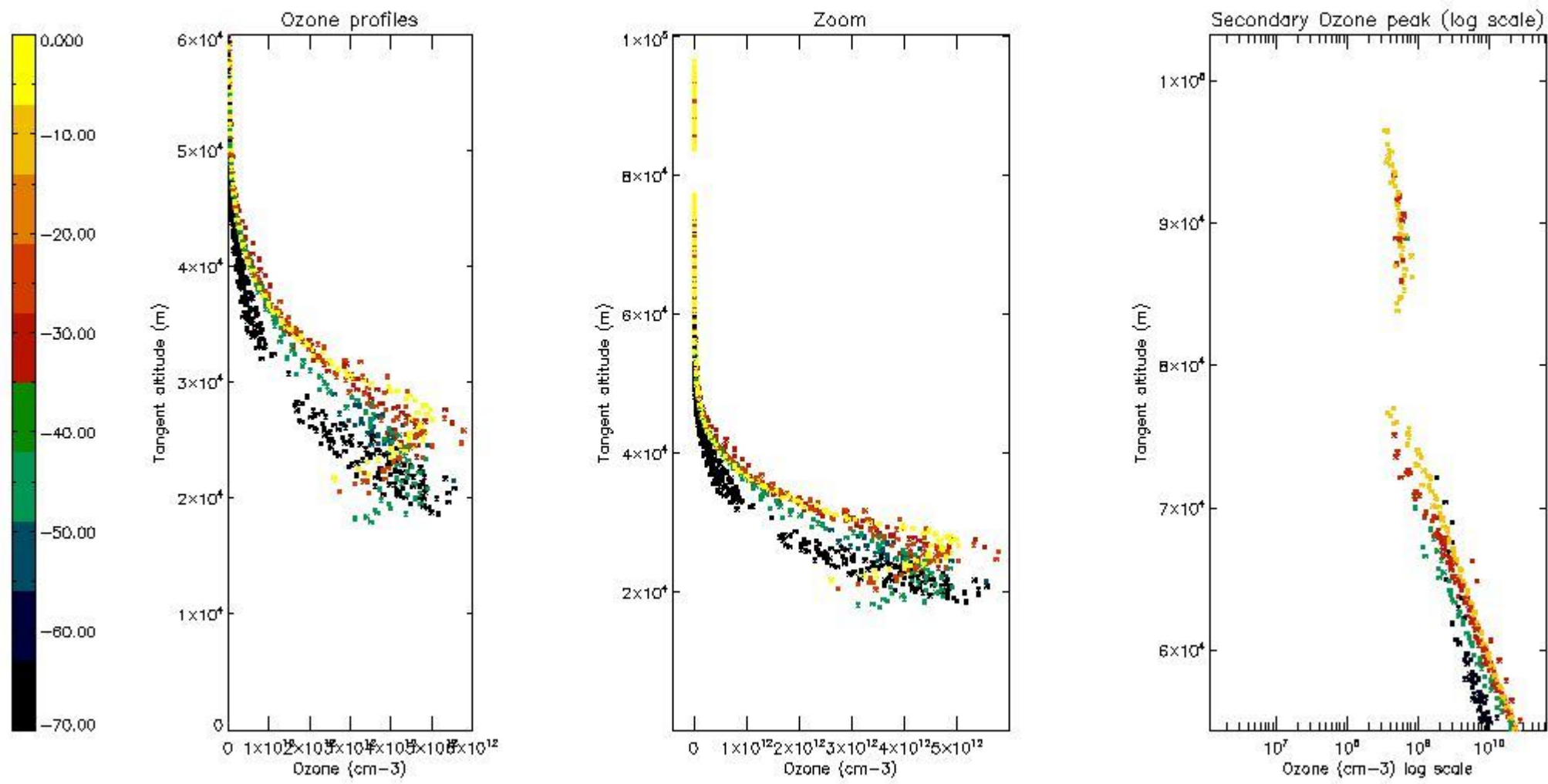
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



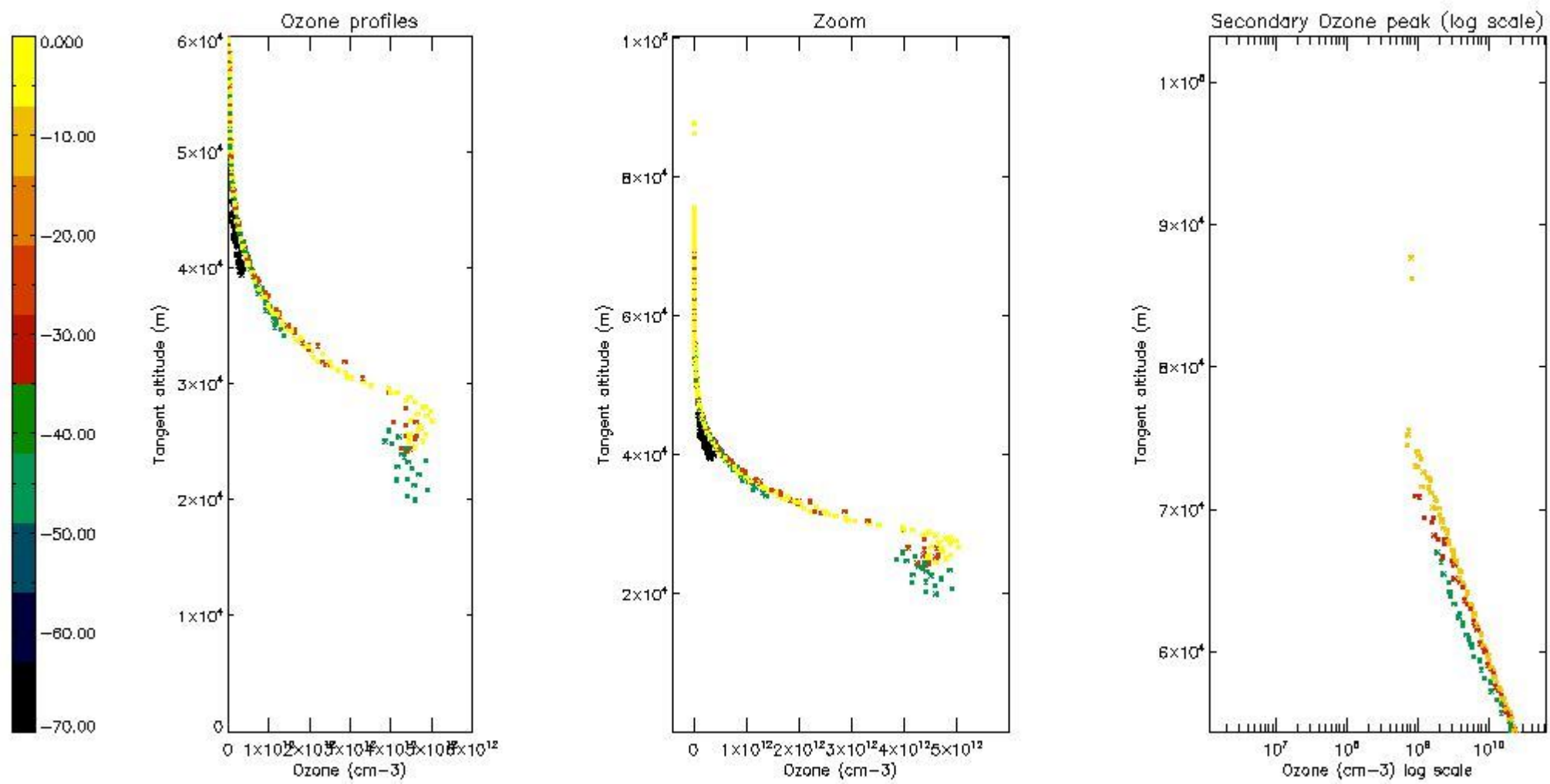
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



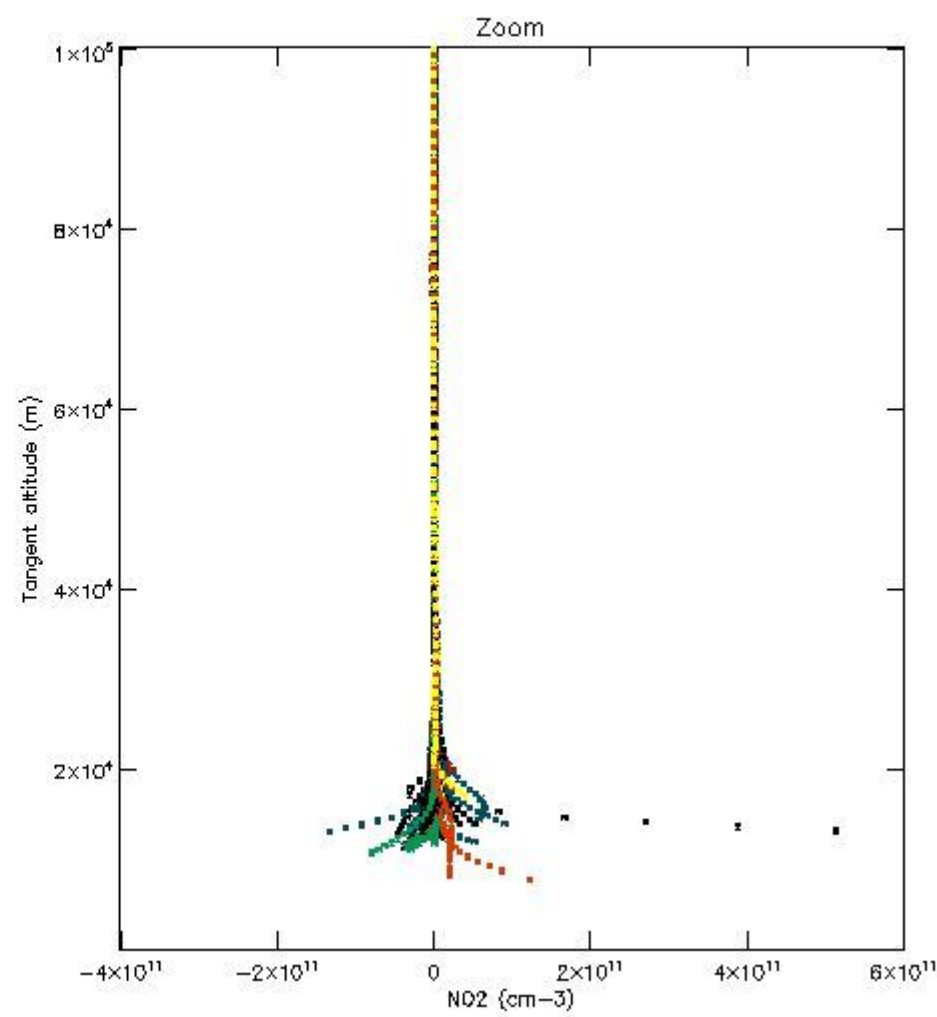
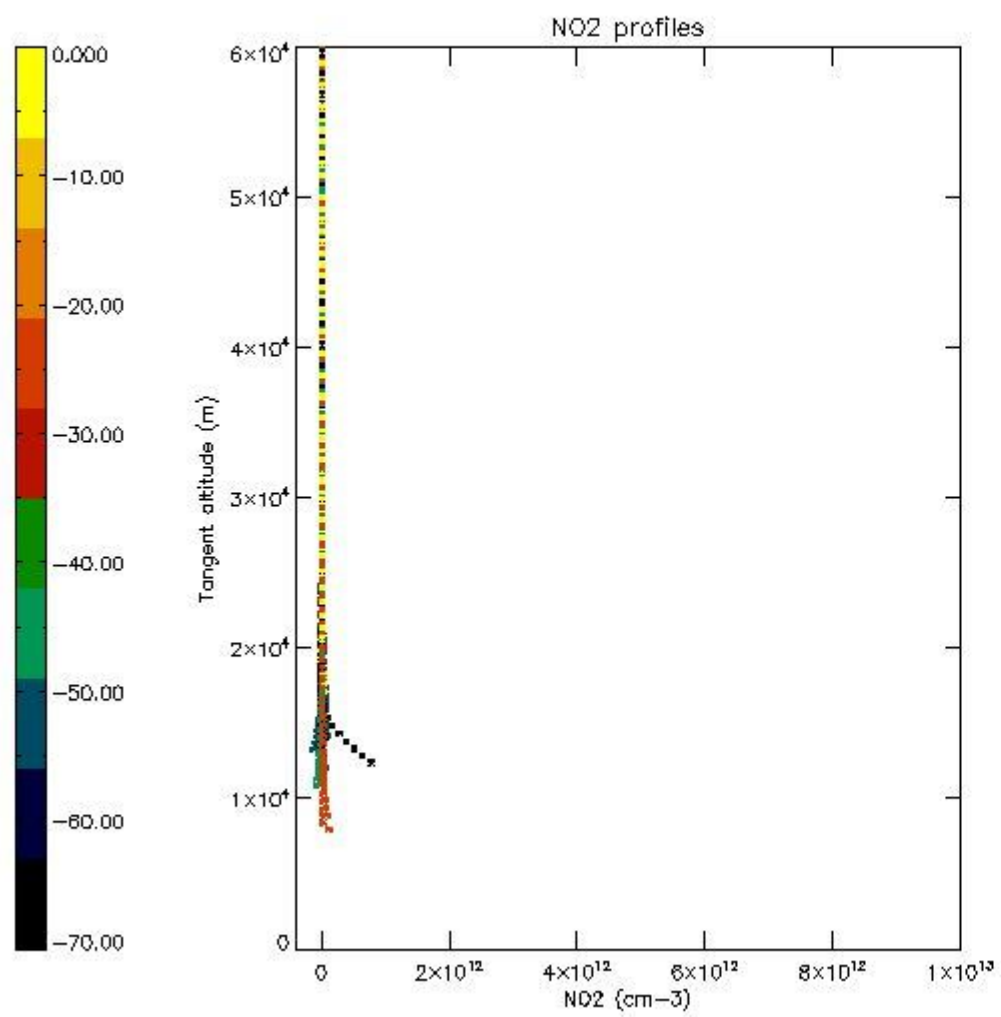
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



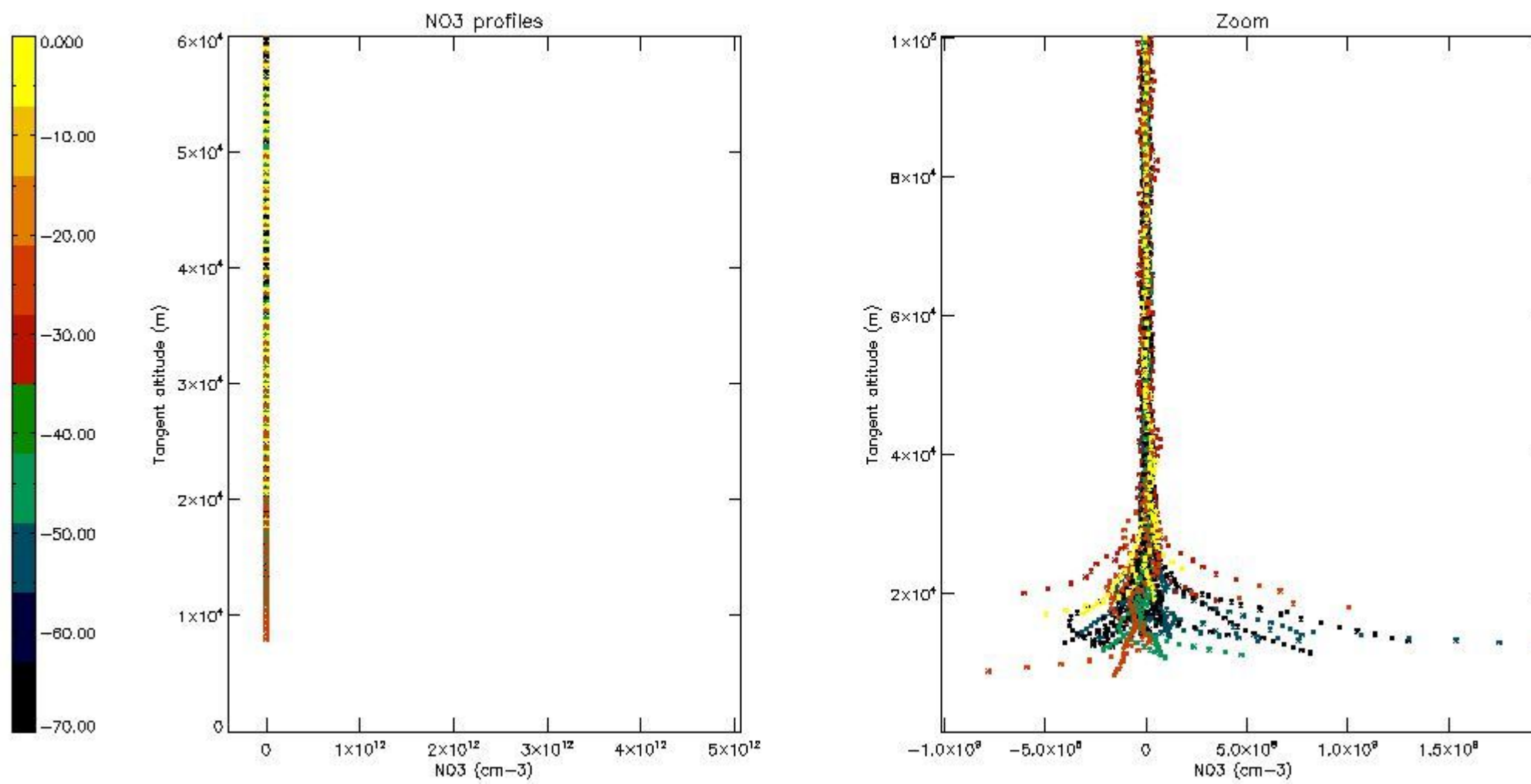
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	06-MAY-2010 00:10:07
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	06-MAY-2010 00:10:07
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	06-MAY-2010 00:10:07

GOMOS Level 2 Daily Report

SUMMARY

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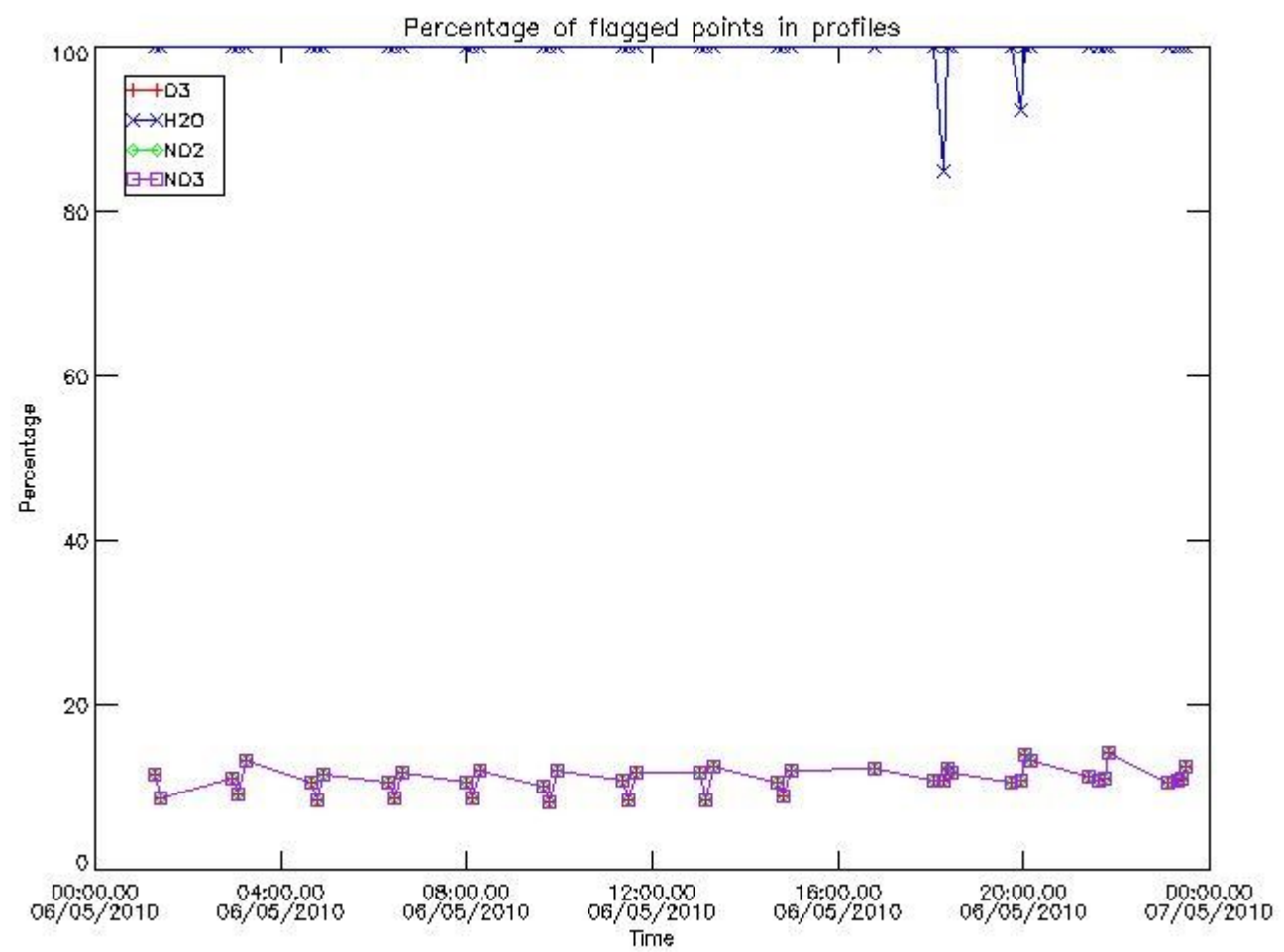
[6. Auxiliary Data Files used for the production reported in section 2](#)

220	GOM_NL__2PRFIN20100506_221342_000000462089_00144_42783_8215.N1	06-MAY-2010 22:13:42	Bright	45.500	104	27Bet Lib	2.6140	13100.	91	42783	No
221	GOM_NL__2PRFIN20100506_222201_000000372089_00144_42783_8216.N1	06-MAY-2010 22:22:01	Bright	36.500	111	8Eta Boo	2.6800	6000.0	73	42783	No
222	GOM_NL__2PRFIN20100506_222516_000000412089_00144_42783_8217.N1	06-MAY-2010 22:25:16	Bright	41.000	83		2.3780	11000.	82	42783	No
223	GOM_NL__2PRFIN20100506_222821_000000412089_00144_42783_8218.N1	06-MAY-2010 22:28:21	Bright	40.500	180	27Gam Boo	3.0400	8000.0	81	42783	No
224	GOM_NL__2PRFIN20100506_223052_000000392089_00144_42783_8219.N1	06-MAY-2010 22:30:52	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	42783	No
225	GOM_NL__2PRFIN20100506_223219_000000362089_00144_42783_8220.N1	06-MAY-2010 22:32:19	Bright	35.500	55	79Zet UMa	2.0600	10200.	71	42783	No
226	GOM_NL__2PRFIN20100506_223738_000000442089_00144_42783_8221.N1	06-MAY-2010 22:37:38	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	42783	No
227	GOM_NL__2PRFIN20100506_224818_000000442089_00144_42783_8222.N1	06-MAY-2010 22:48:18	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	42783	No
228	GOM_NL__2PRFIN20100506_225103_000000532089_00144_42783_8223.N1	06-MAY-2010 22:51:03	Bright	53.000	74	11Bet Cas	2.2680	6600.0	106	42783	No
229	GOM_NL__2PRFIN20100506_230049_000000612089_00144_42783_8224.N1	06-MAY-2010 23:00:49	Twilight	60.500	93	53Bet Peg	2.5200	3100.0	121	42783	No
230	GOM_NL__2PRFIN20100506_230500_000000482089_00144_42783_8225.N1	06-MAY-2010 23:05:00	Dark	47.500	90	54Alp Peg	2.4870	11000.	95	42783	No
231	GOM_NL__2PRFIN20100506_231804_000000482089_00144_42783_8226.N1	06-MAY-2010 23:18:04	Dark	47.500	18	24Alp PsA	1.1660	9700.0	95	42783	No
232	GOM_NL__2PRFIN20100506_232354_000000502089_00144_42783_8227.N1	06-MAY-2010 23:23:54	Dark	50.000	31	Alp Gru	1.7340	15200.	100	42783	No
233	GOM_NL__2PRFIN20100506_232929_000000412089_00145_42784_8236.N1	06-MAY-2010 23:29:29	Dark	40.500	45	Alp Pav	1.9400	26000.	81	42784	No
234	GOM_NL__2PRFIN20100506_233659_000000422089_00145_42784_8237.N1	06-MAY-2010 23:36:59	Straylight	42.000	141	Bet Ara	2.8400	4600.0	84	42784	No
235	GOM_NL__2PRFIN20100506_233910_000000552089_00145_42784_8238.N1	06-MAY-2010 23:39:10	Straylight	55.000	40	The Sco	1.8590	7100.0	110	42784	No
236	GOM_NL__2PRFIN20100506_234105_000000392089_00145_42784_8239.N1	06-MAY-2010 23:41:05	Straylight	39.000	115	34Ups Sco	2.6960	26000.	78	42784	No
237	GOM_NL__2PRFIN20100506_234348_000000602089_00145_42784_8240.N1	06-MAY-2010 23:43:48	Straylight	59.500	75	26Eps Sco	2.2910	4250.0	119	42784	No
238	GOM_NL__2PRFIN20100506_234747_000000252089_00145_42784_8241.N1	06-MAY-2010 23:47:47	Twilight	25.000	156	20Sig Sco	2.9030	28000.	50	42784	No
239	GOM_NL__2PRFIN20100506_234916_000000532089_00145_42784_8242.N1	06-MAY-2010 23:49:16	Twilight	52.500	80	7Del Sco	2.3160	30000.	105	42784	No
240	GOM_NL__2PRFIN20100506_235213_000000412089_00145_42784_8243.N1	06-MAY-2010 23:52:13	Bright	41.000	122	9Alp2Lib	2.7470	9700.0	82	42784	No
241	GOM_NL__2PRFIN20100506_235418_000000452089_00145_42784_8244.N1	06-MAY-2010 23:54:18	Bright	45.000	104	27Bet Lib	2.6140	13100.	90	42784	No

3. Quality information per product

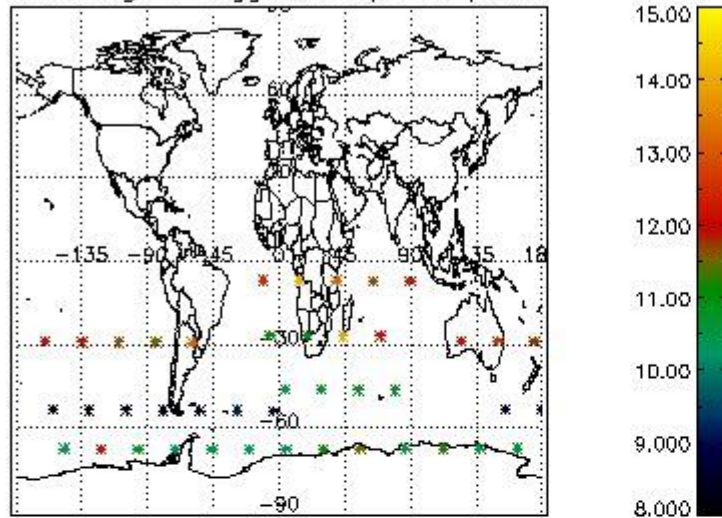
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

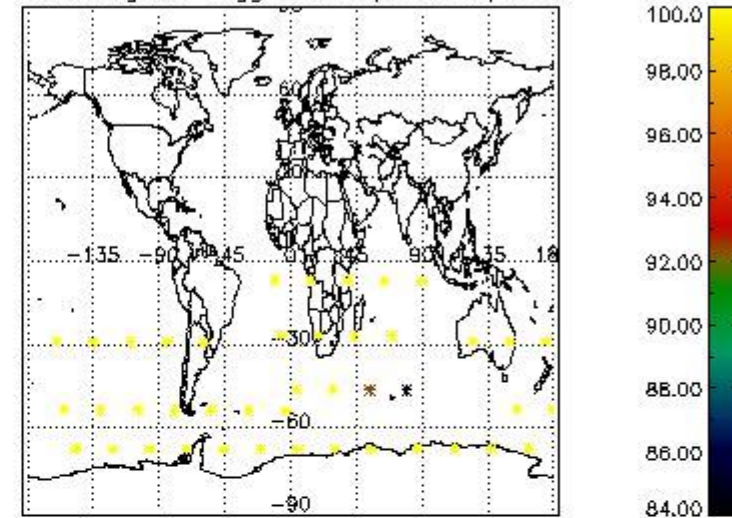


3.2 Plot quality information per product (world map)

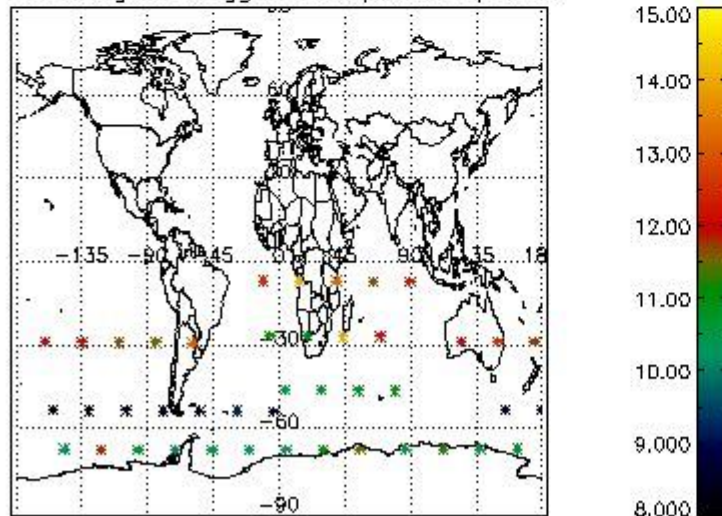
Percentage of flagged data per O3 profile



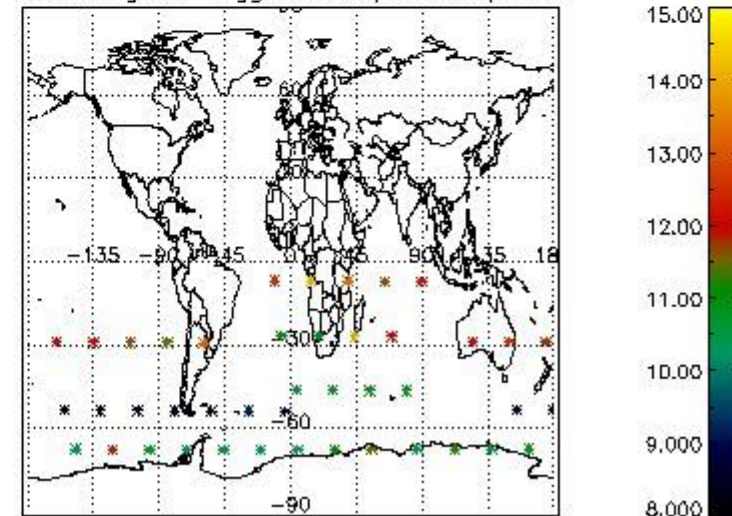
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

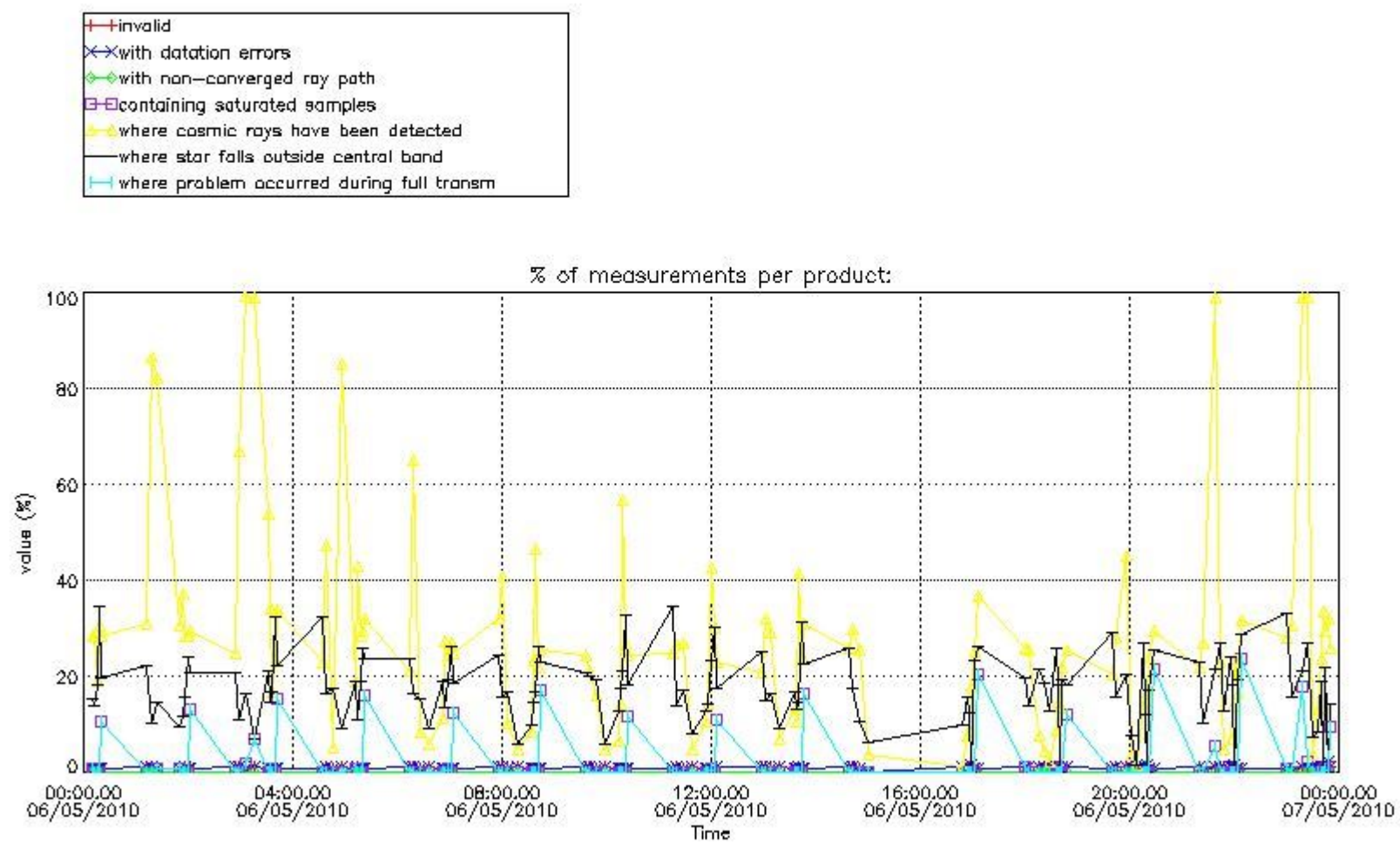


4. Level 1 quality information per product

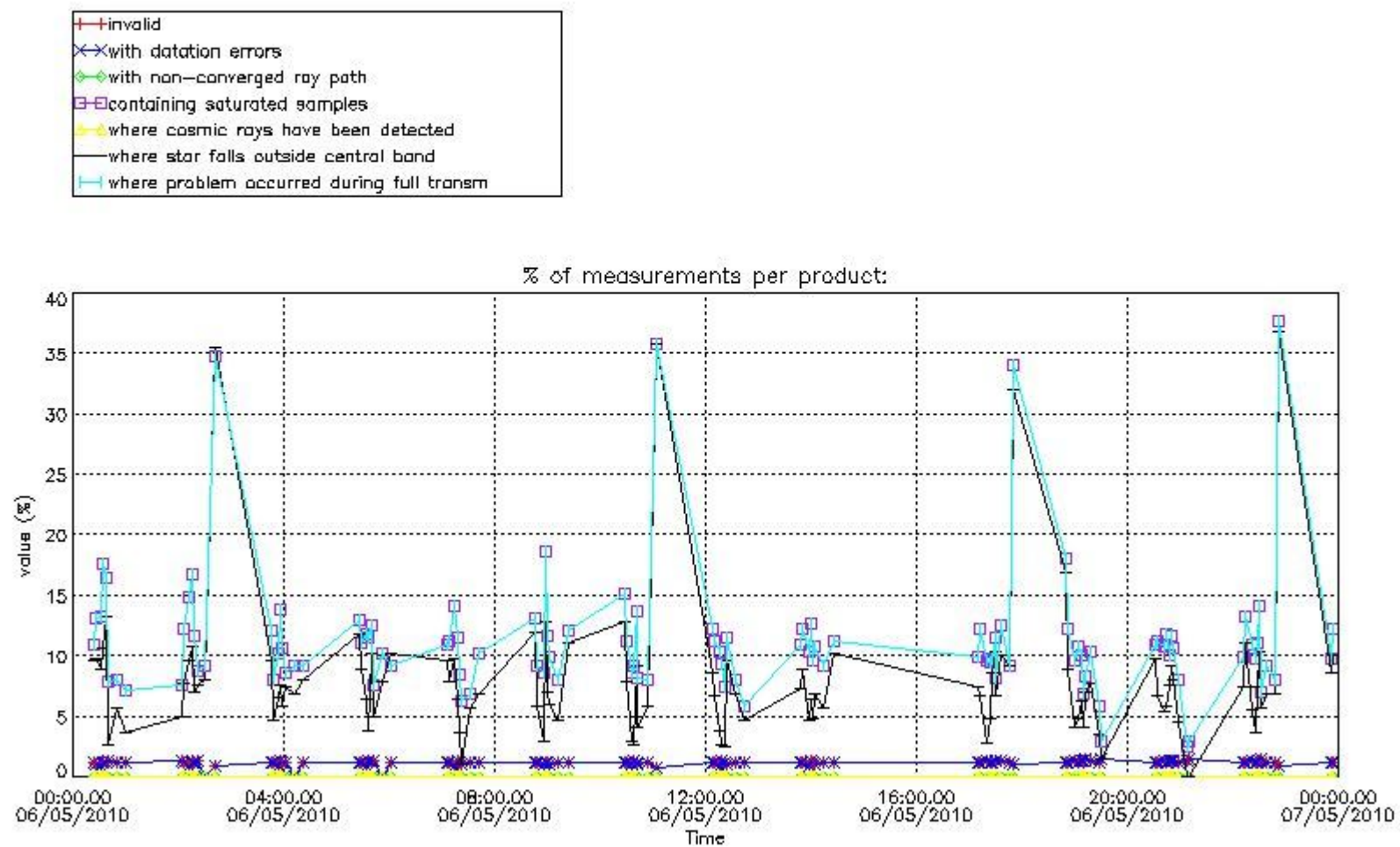
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

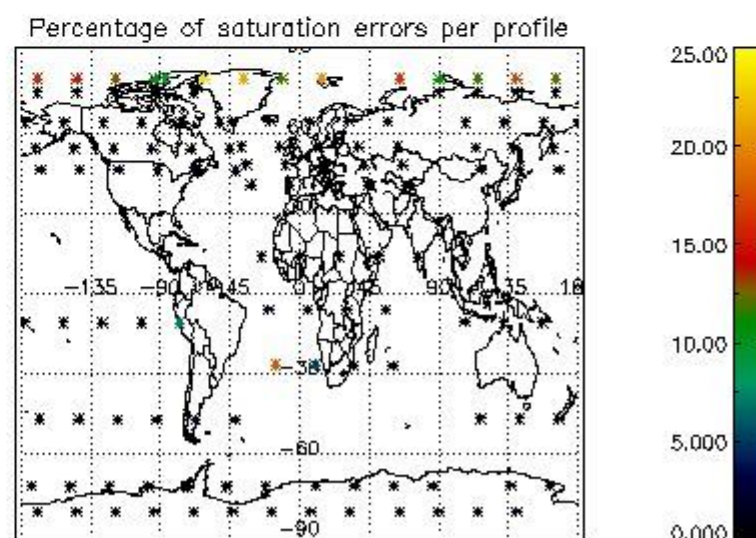
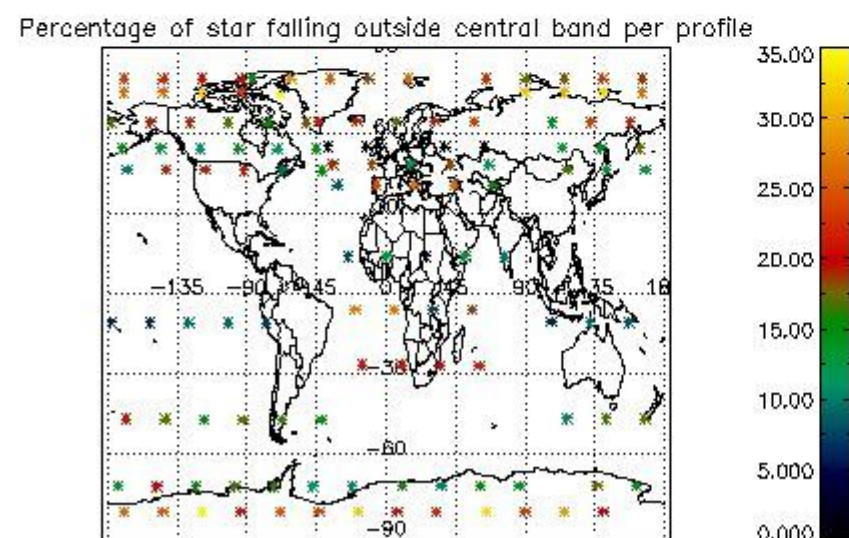
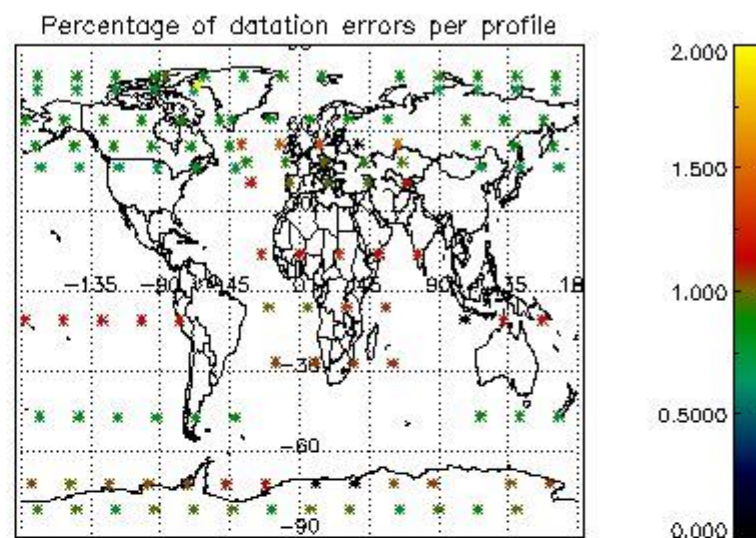
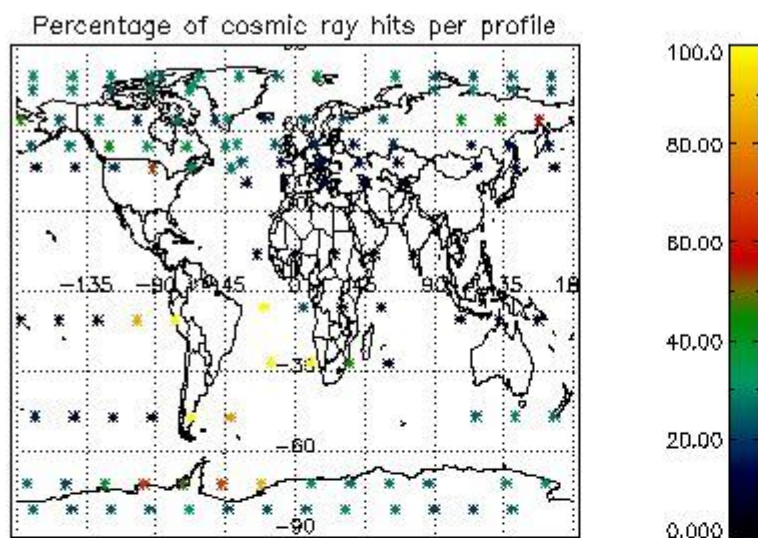


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

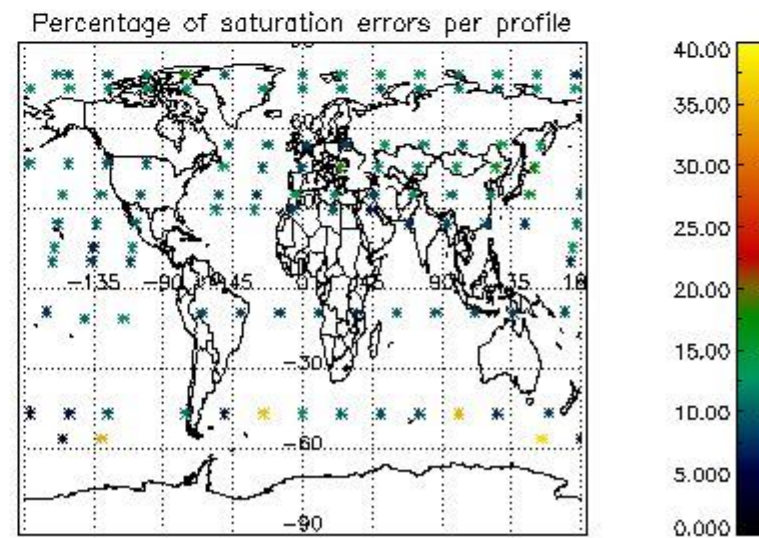
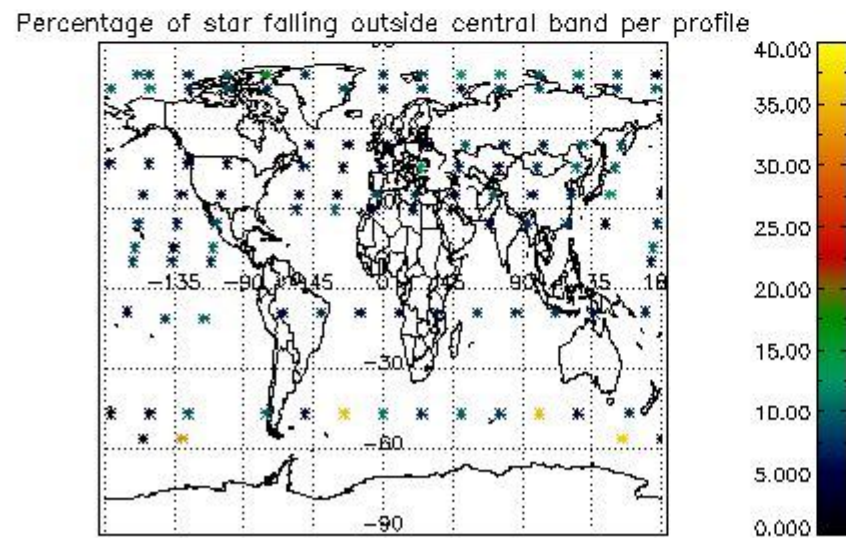
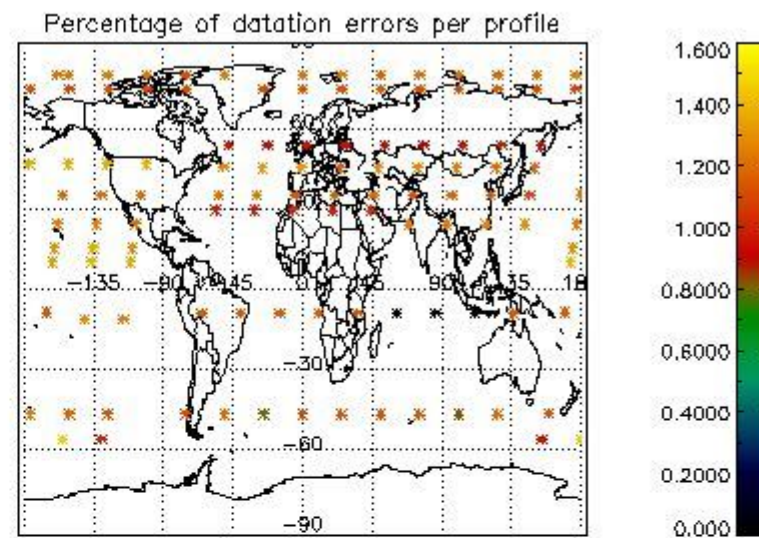
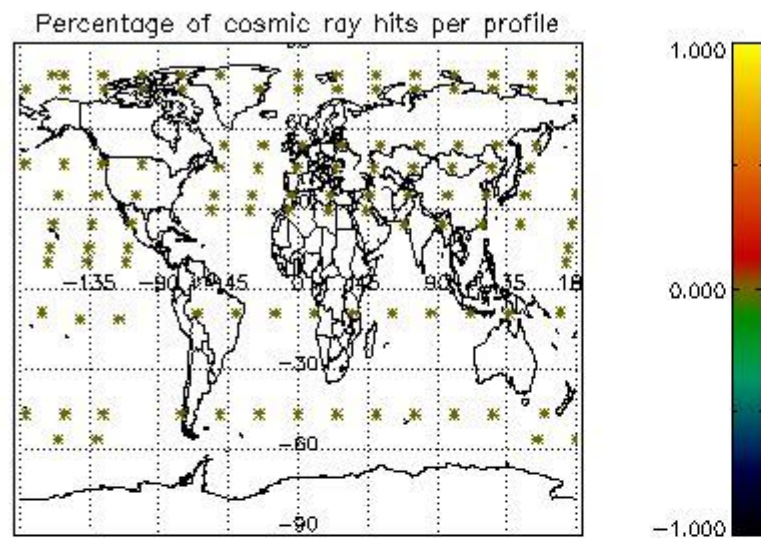


4.2 Plot quality information per product coming from level 1b processing (world map)

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

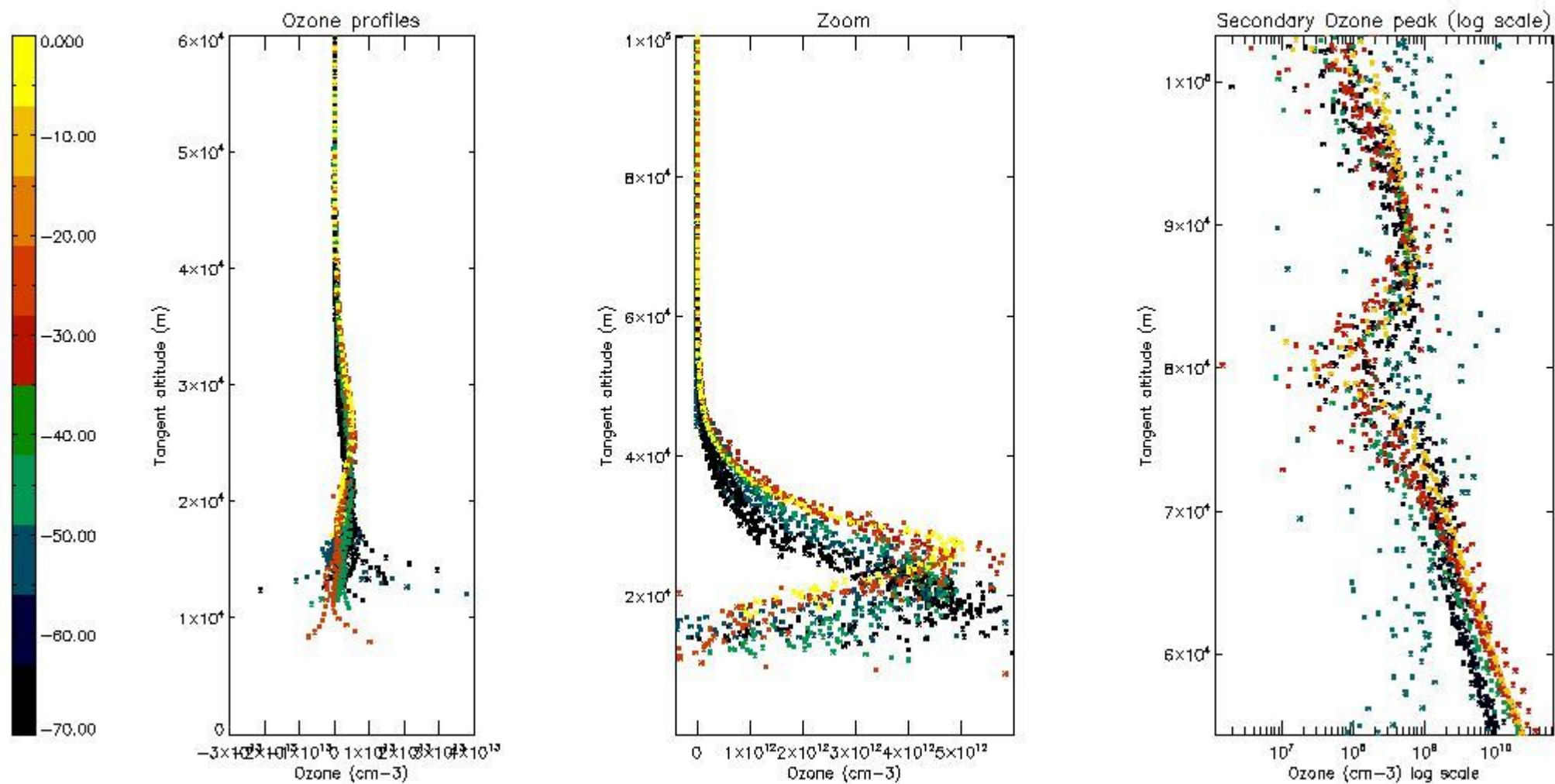
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	18
STD < 20	9

STD < 10	6
STD < 5	2

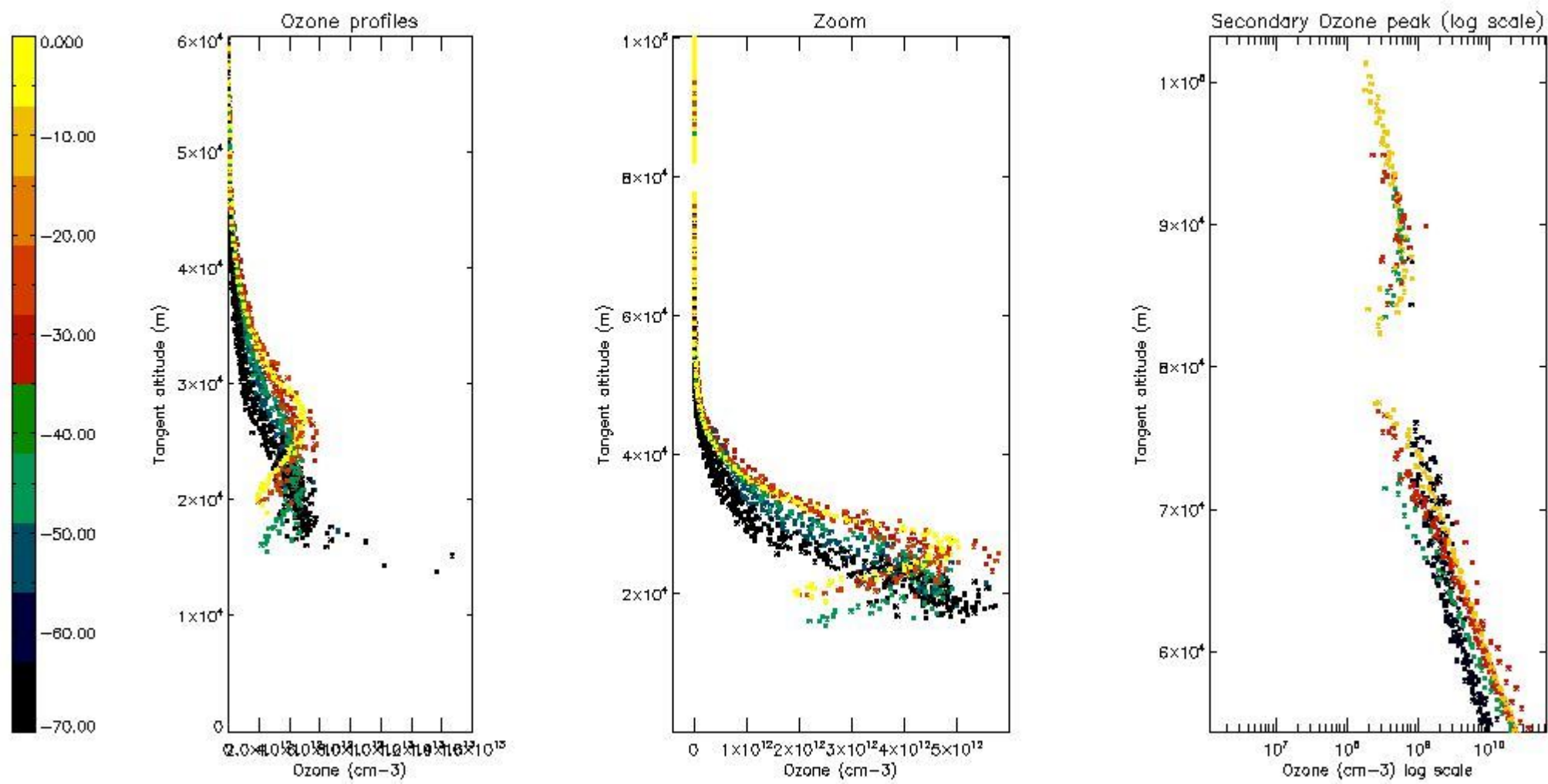
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



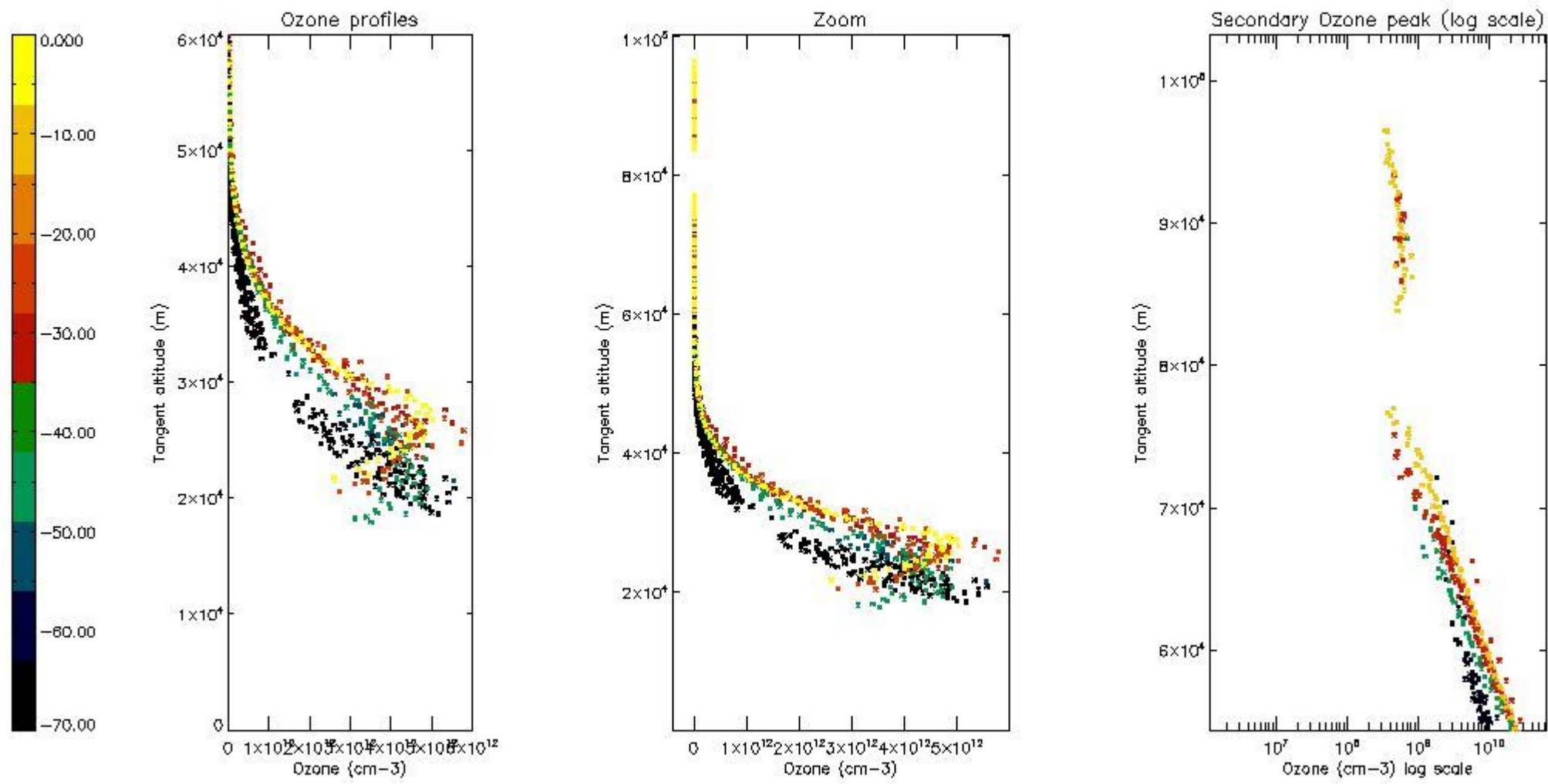
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



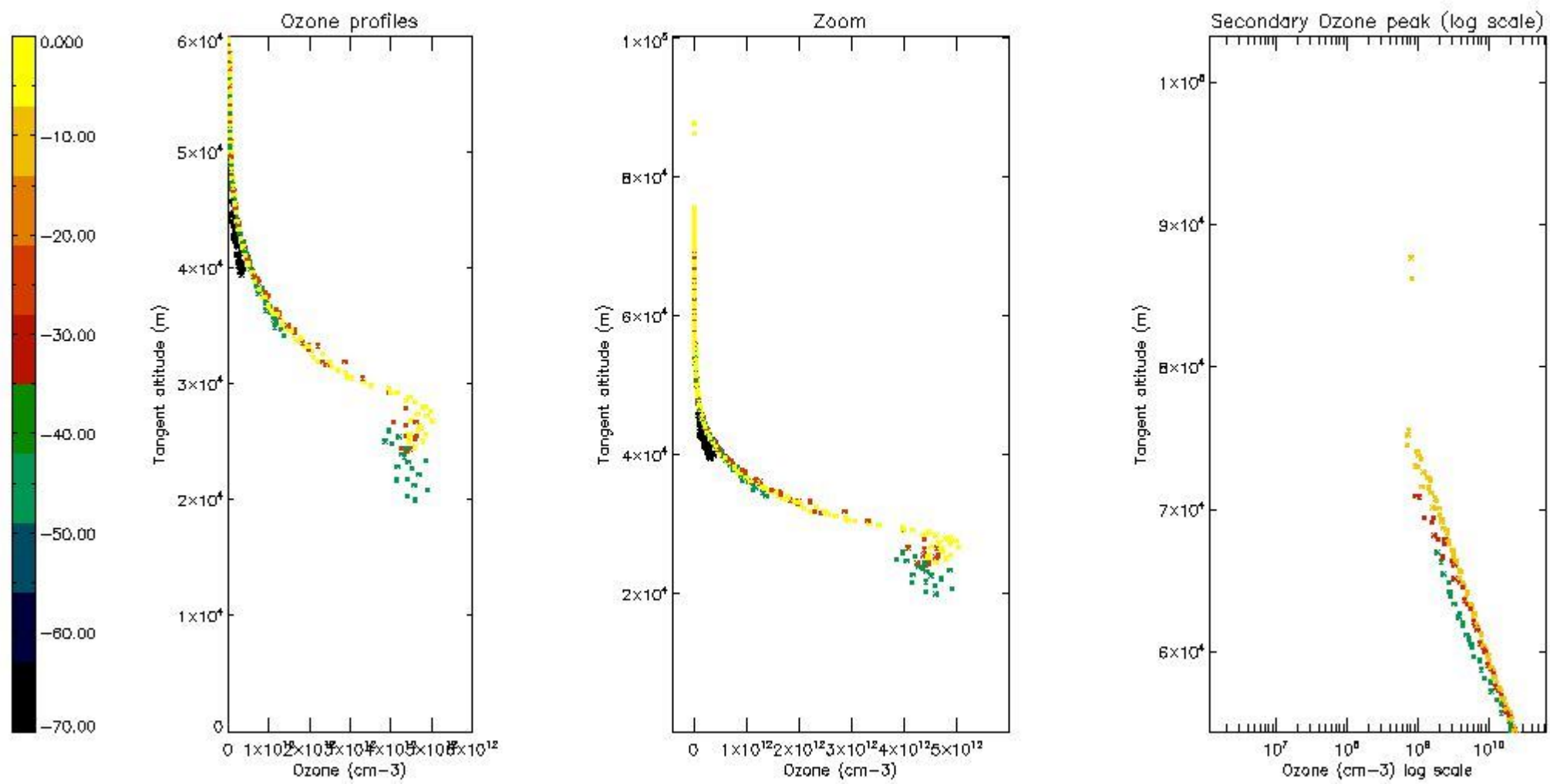
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



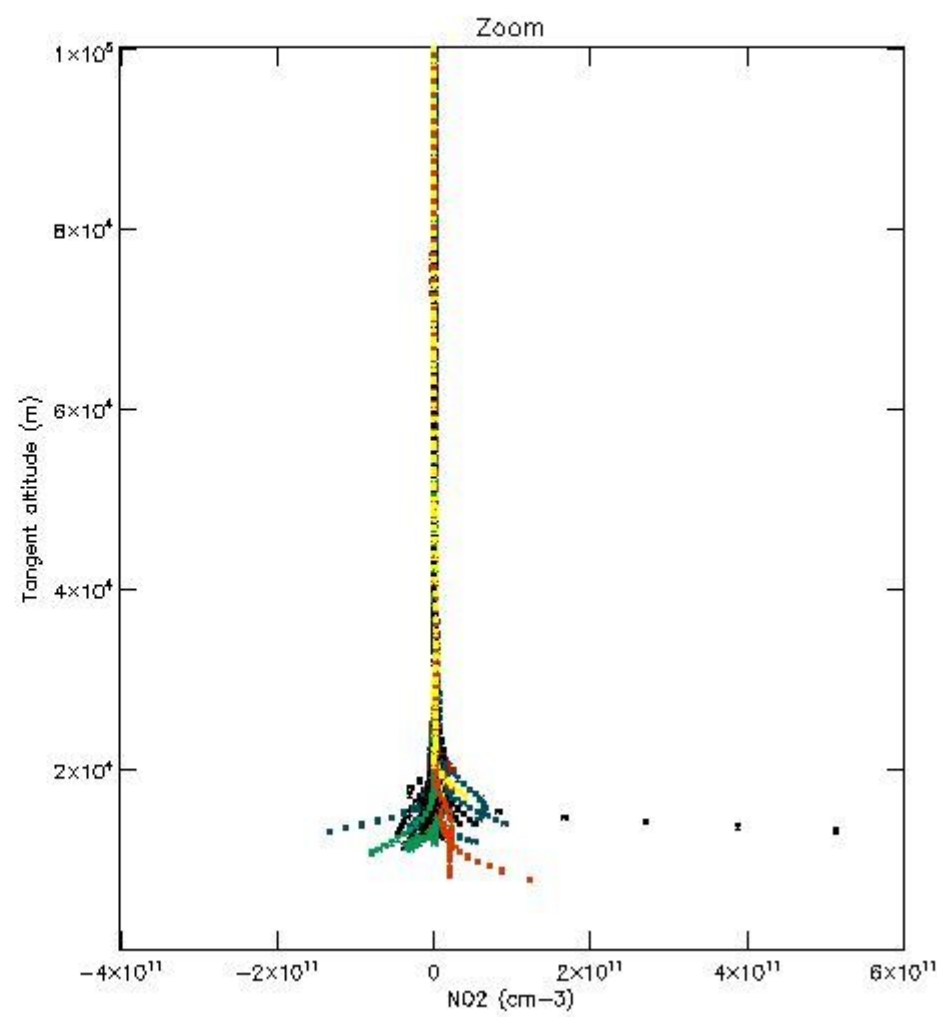
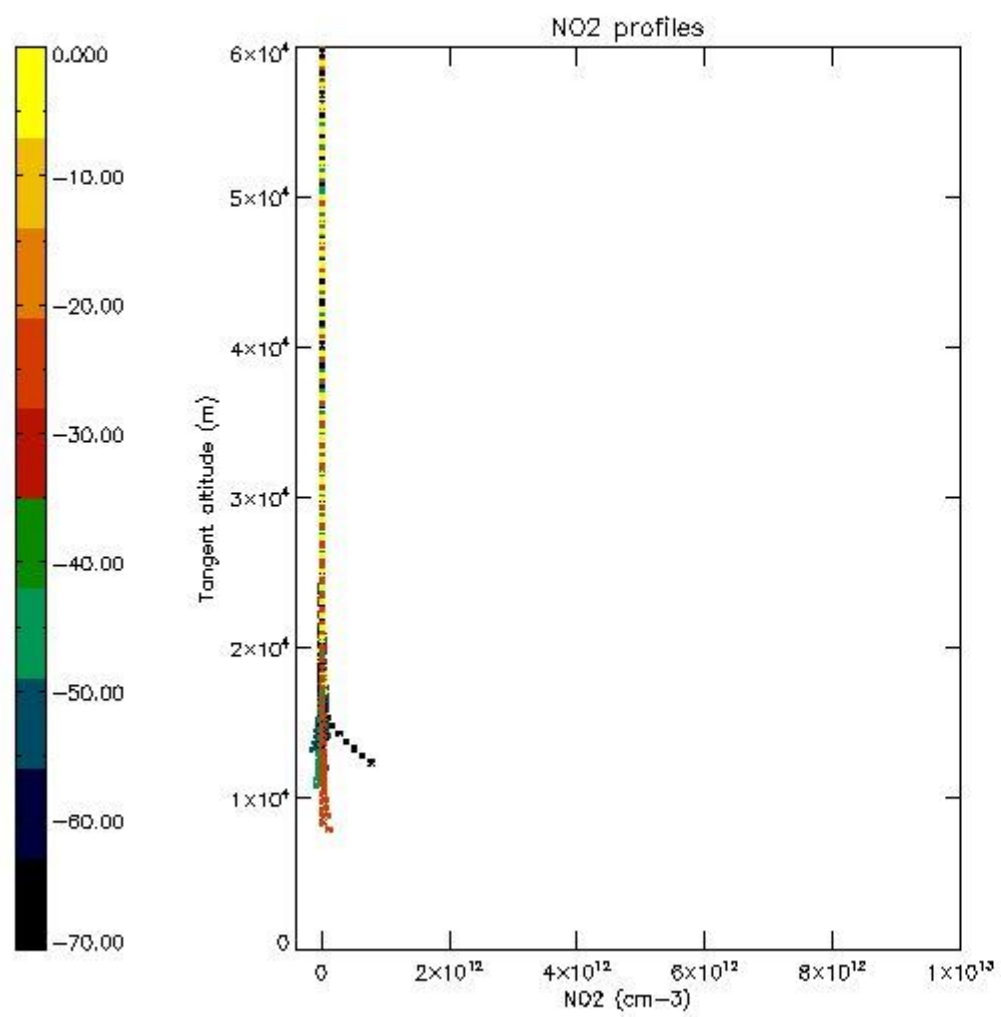
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



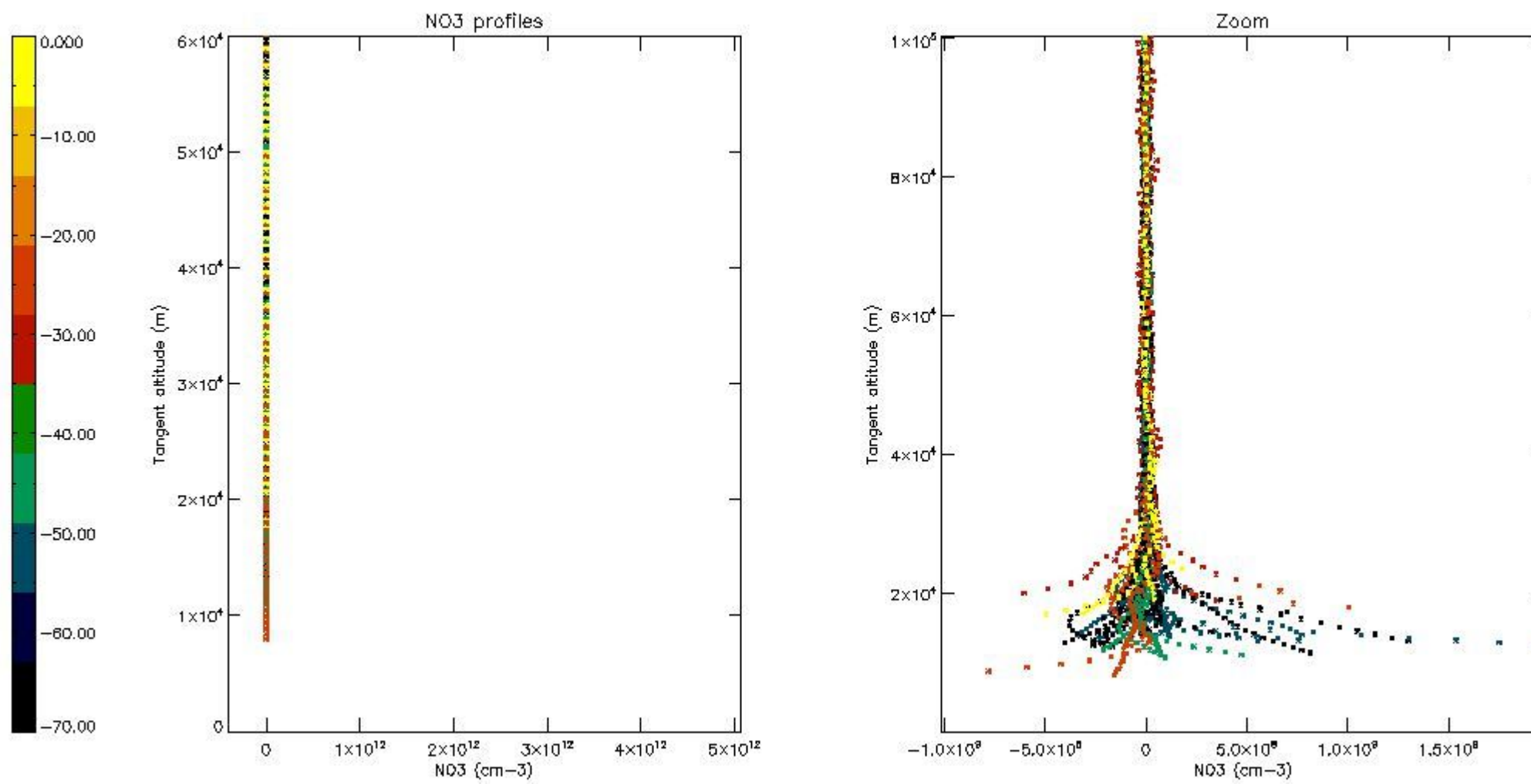
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

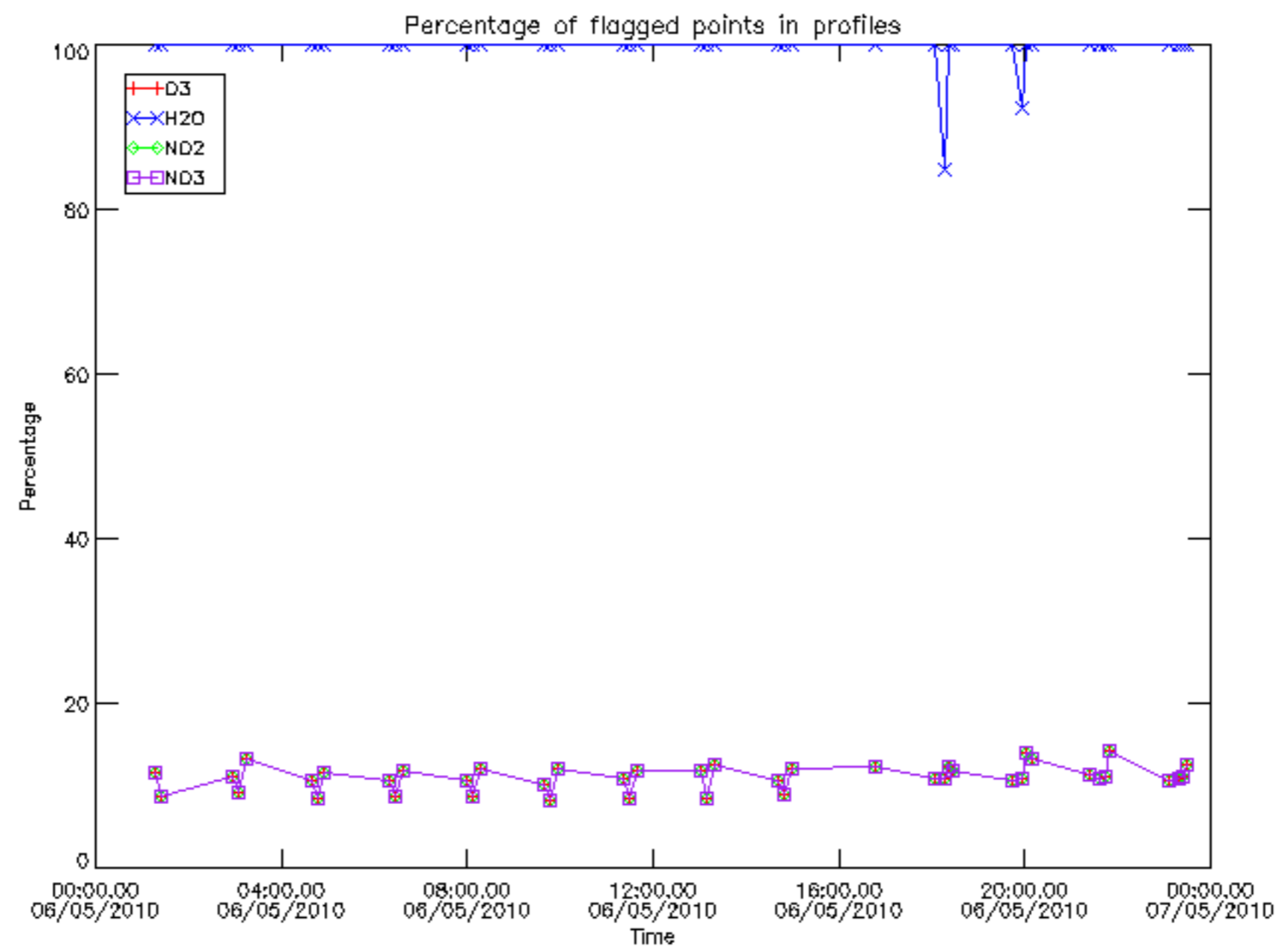
The colorbar represents the latitude.



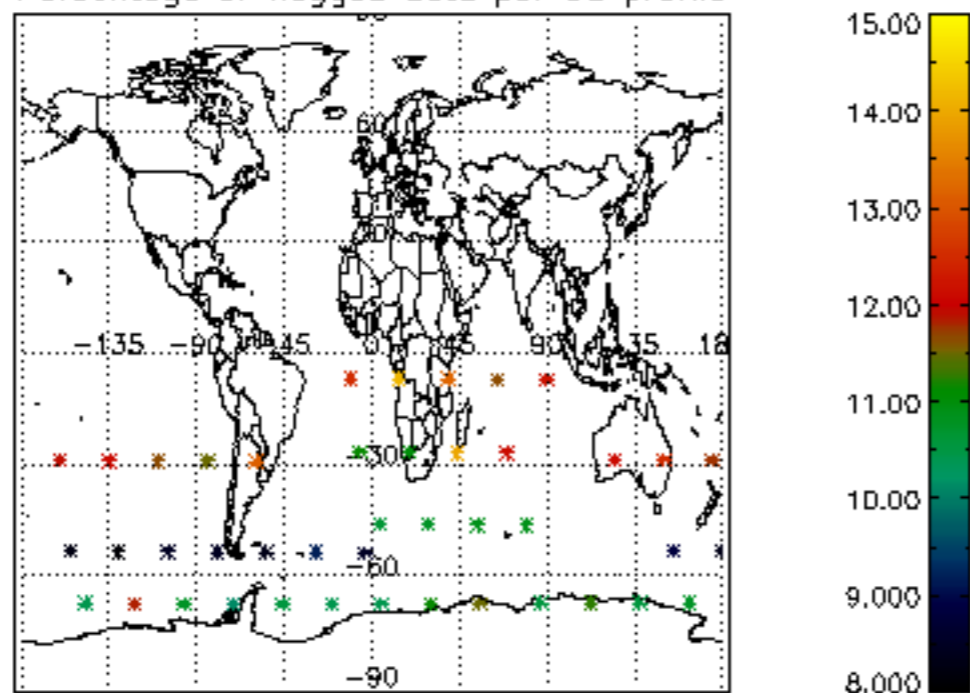
6. Auxiliary Data Files used for the production reported in section 2

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.

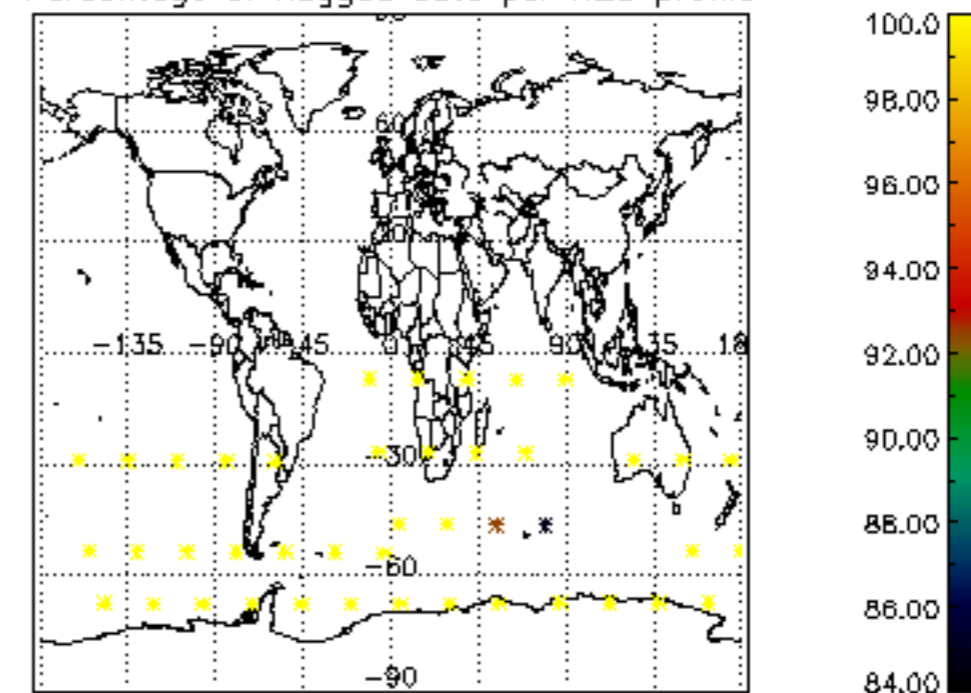
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	06-MAY-2010 00:10:07
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	06-MAY-2010 00:10:07
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	06-MAY-2010 00:10:07



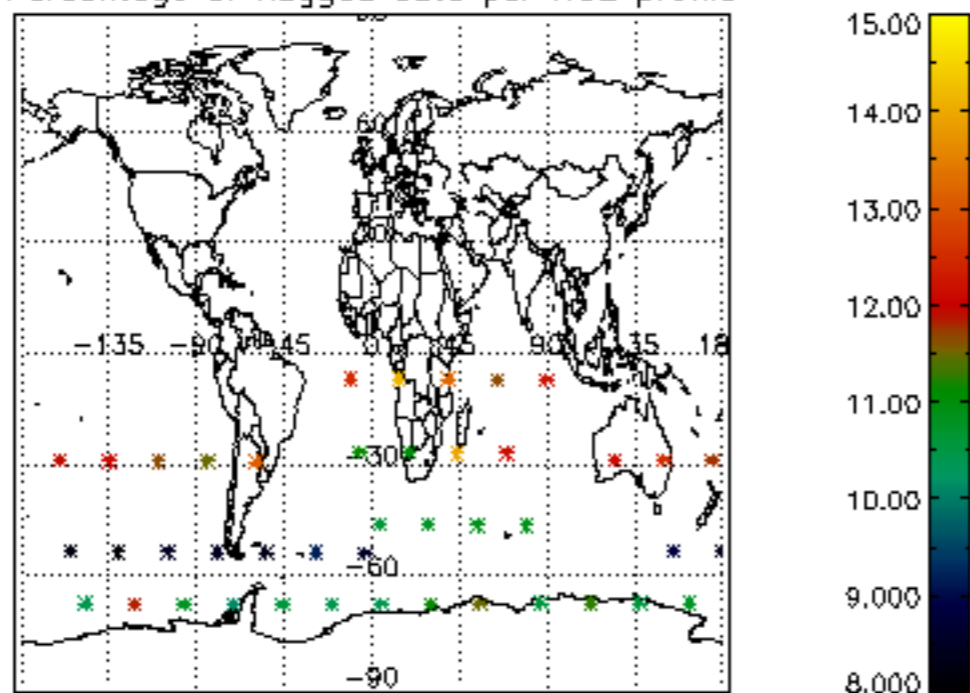
Percentage of flagged data per D3 profile



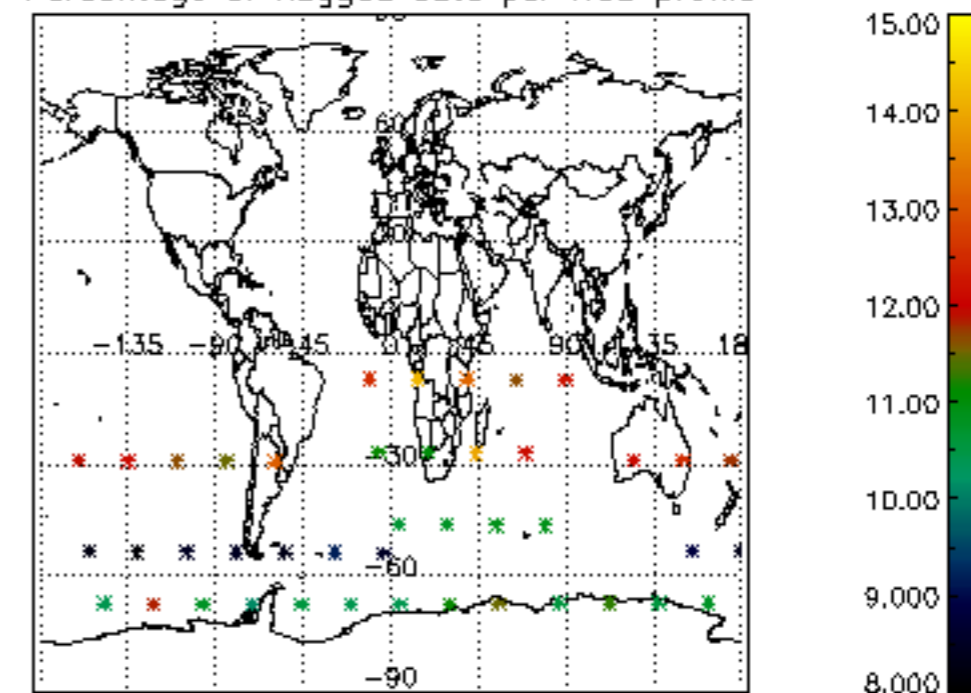
Percentage of flagged data per H2O profile

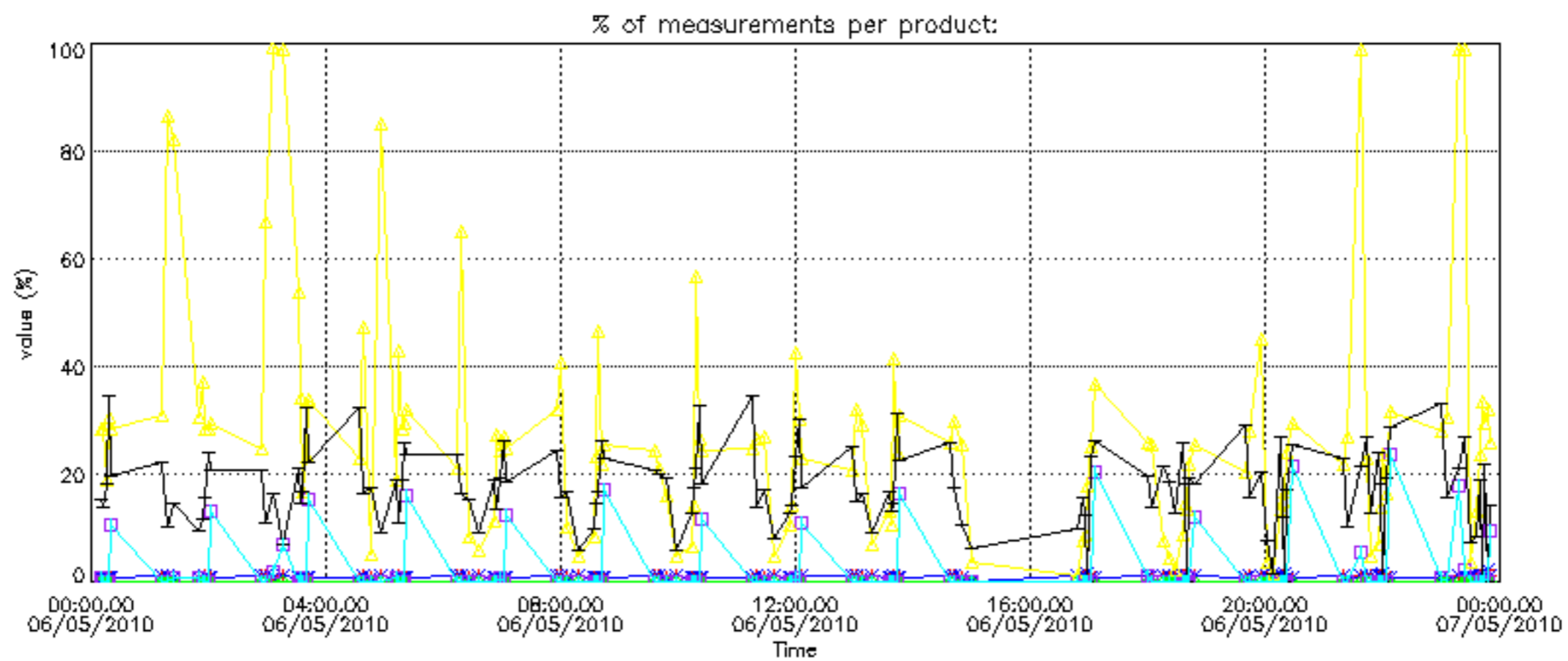
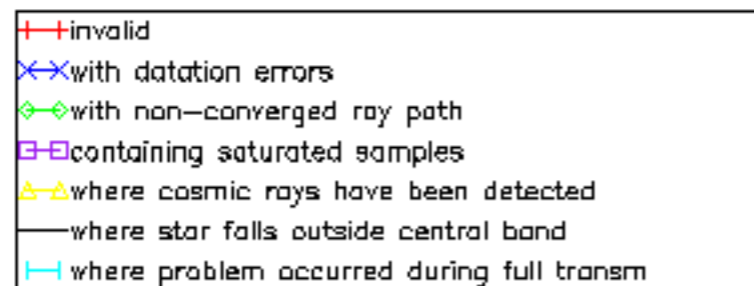


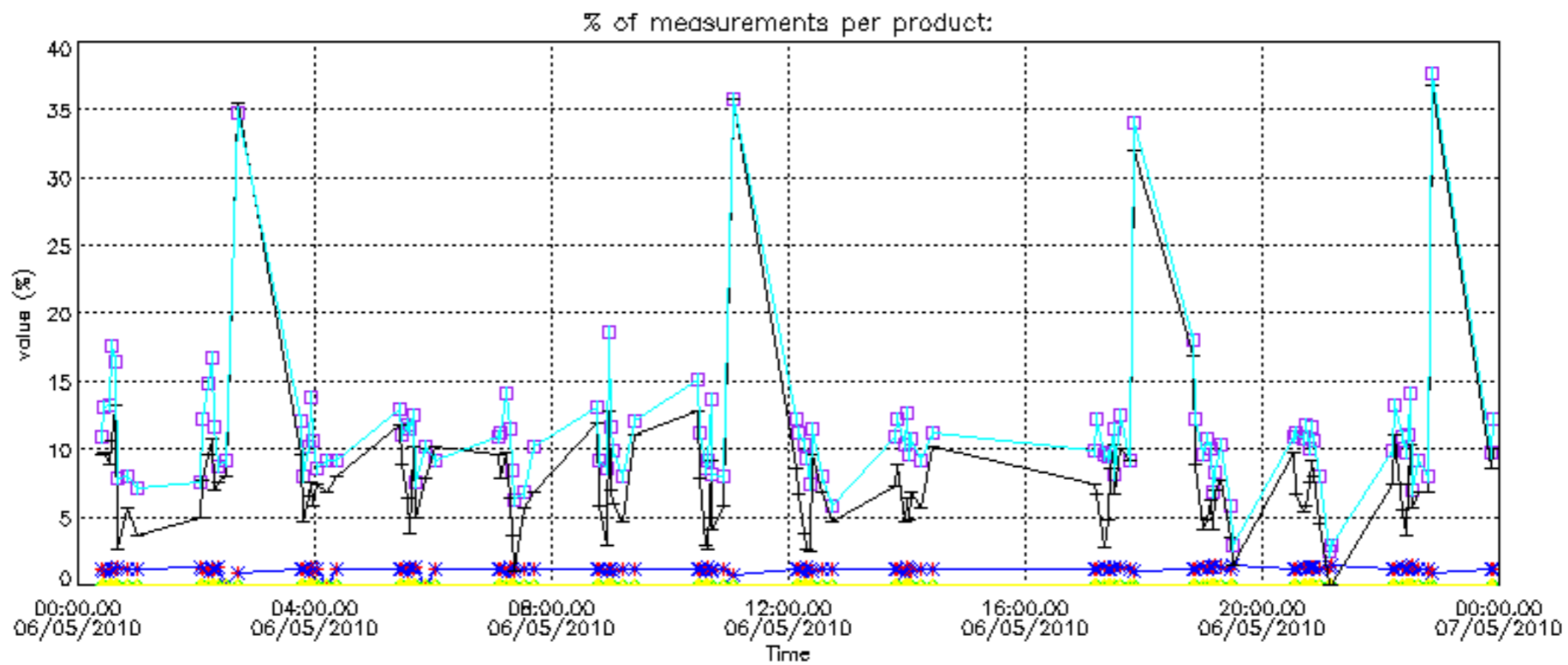
Percentage of flagged data per NO2 profile



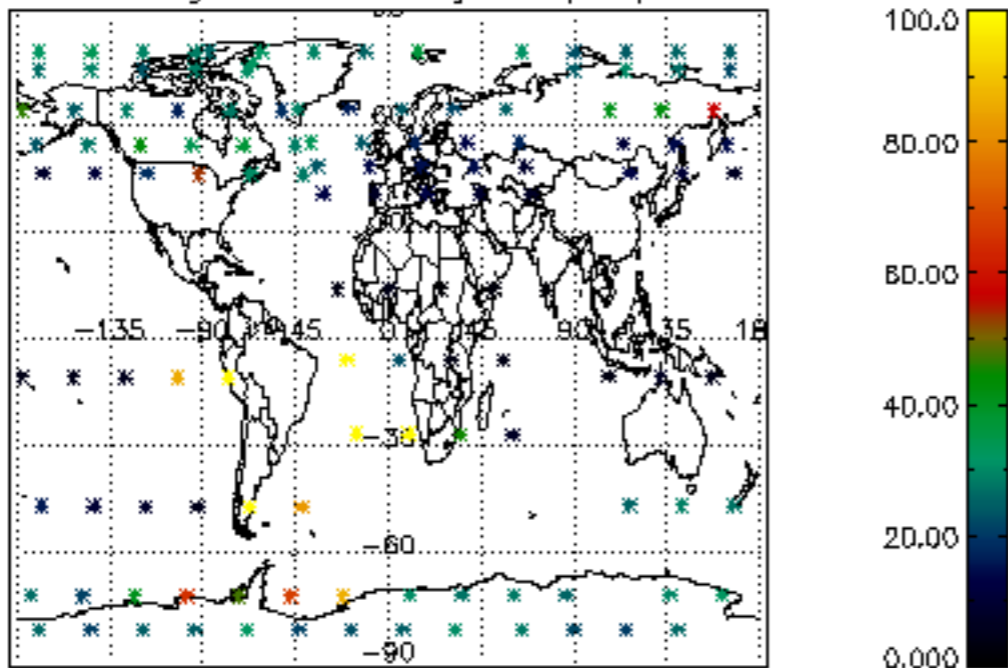
Percentage of flagged data per NO3 profile



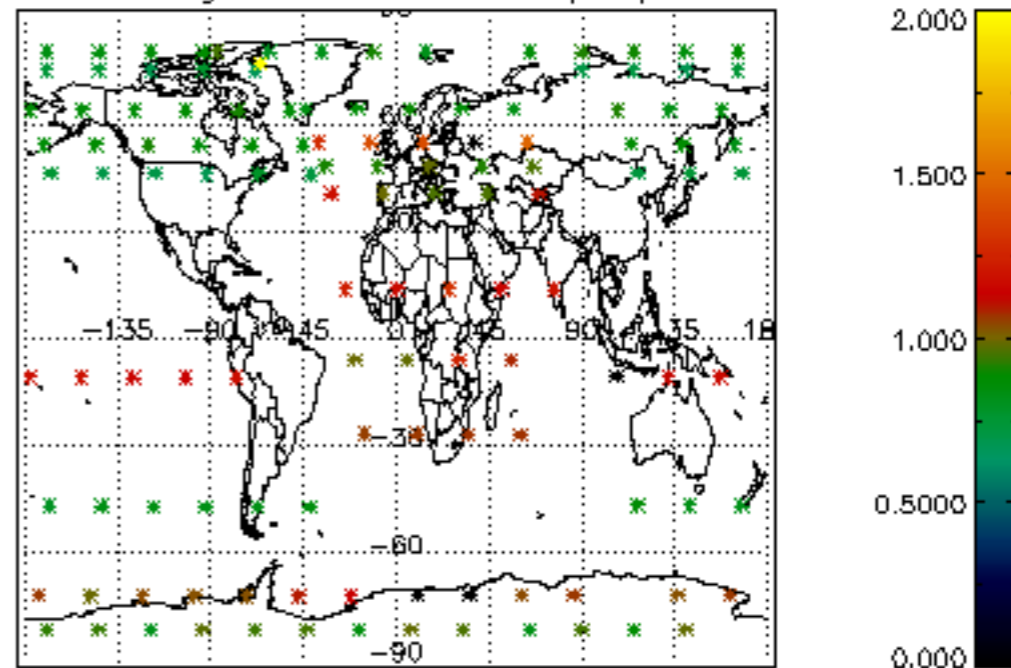




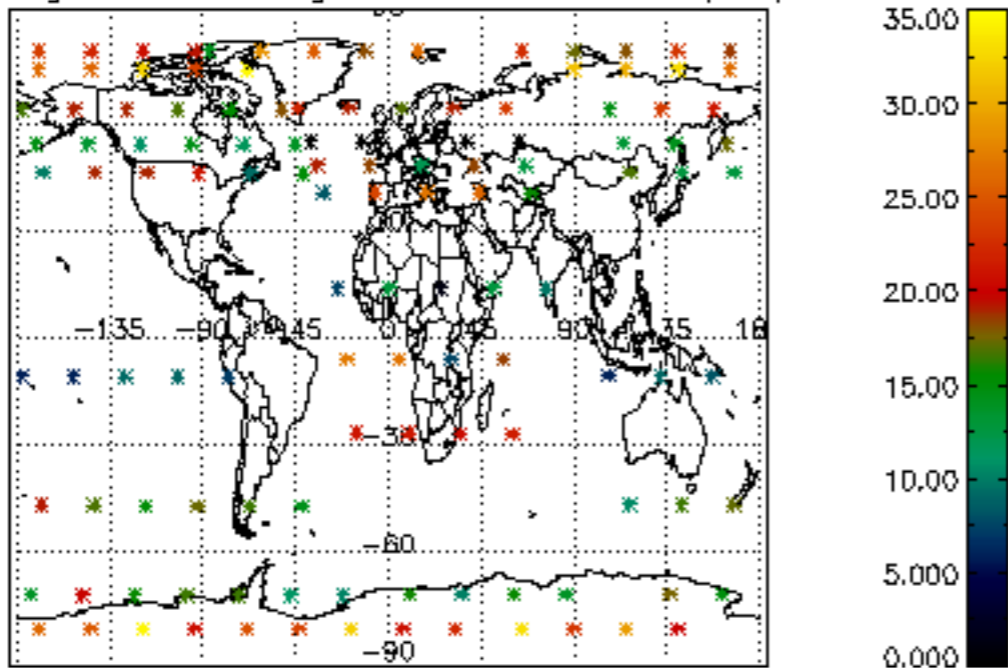
Percentage of cosmic ray hits per profile



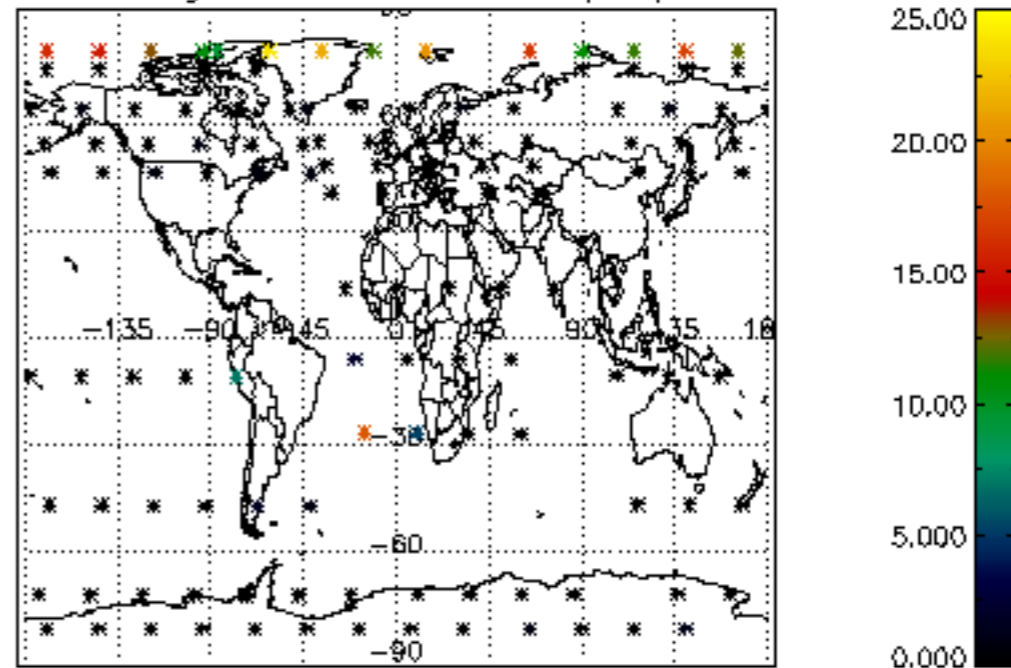
Percentage of datation errors per profile



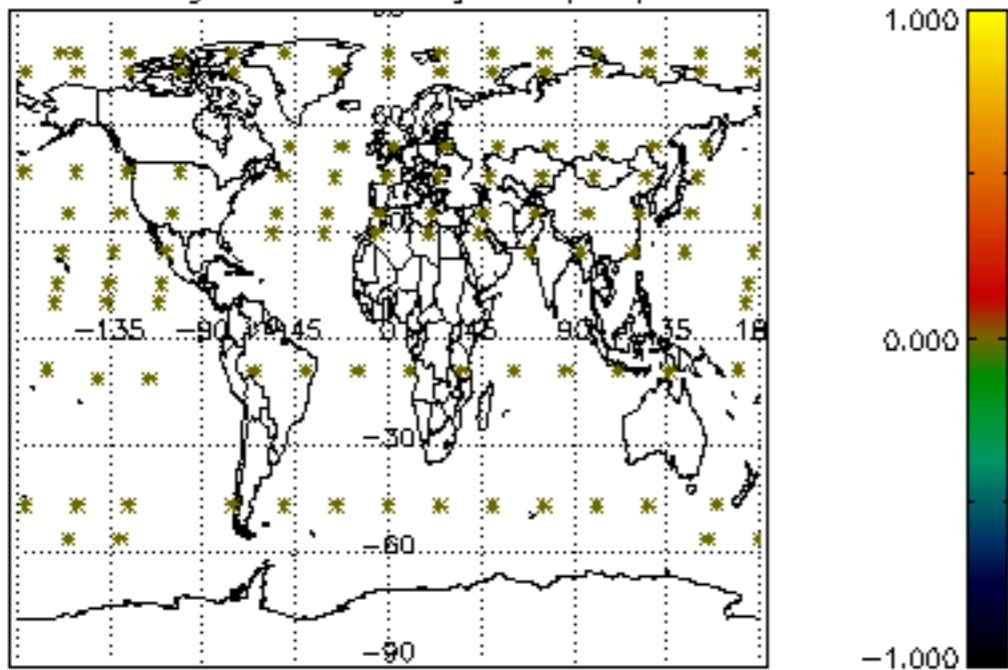
Percentage of star falling outside central band per profile



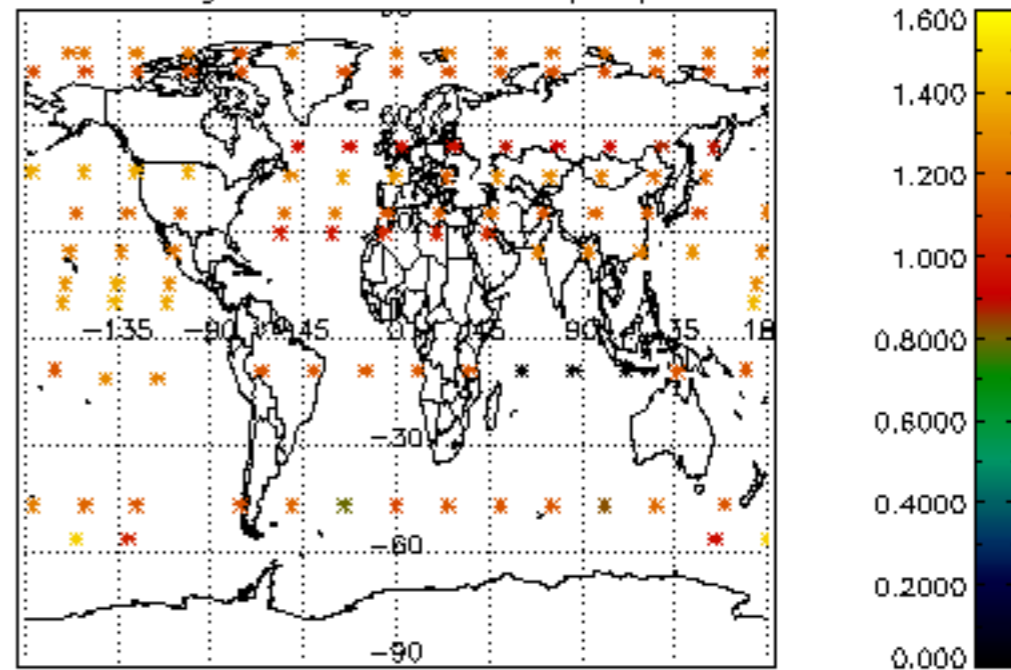
Percentage of saturation errors per profile



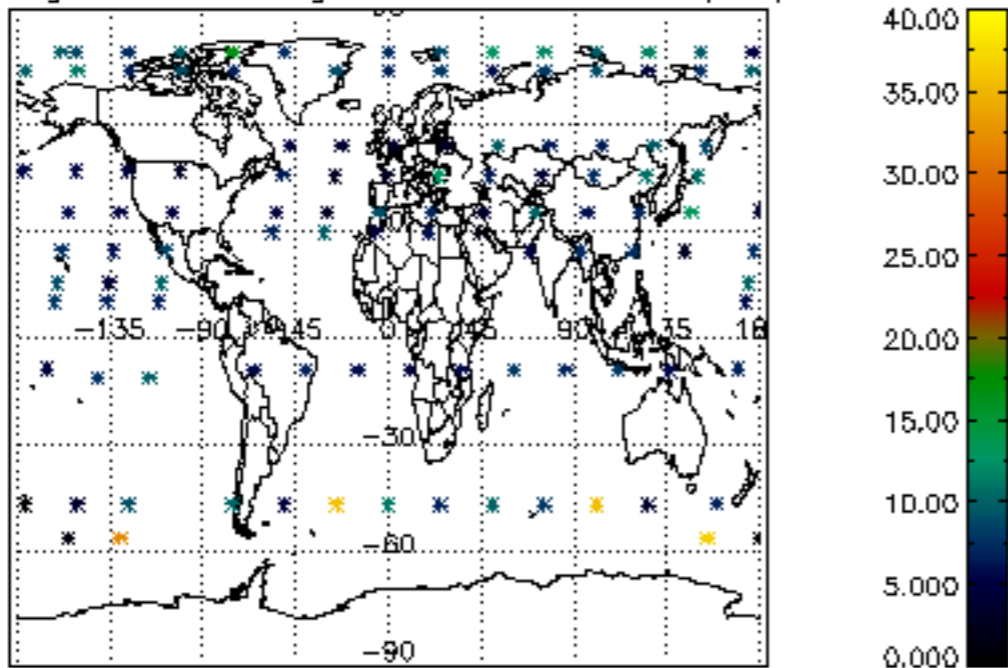
Percentage of cosmic ray hits per profile



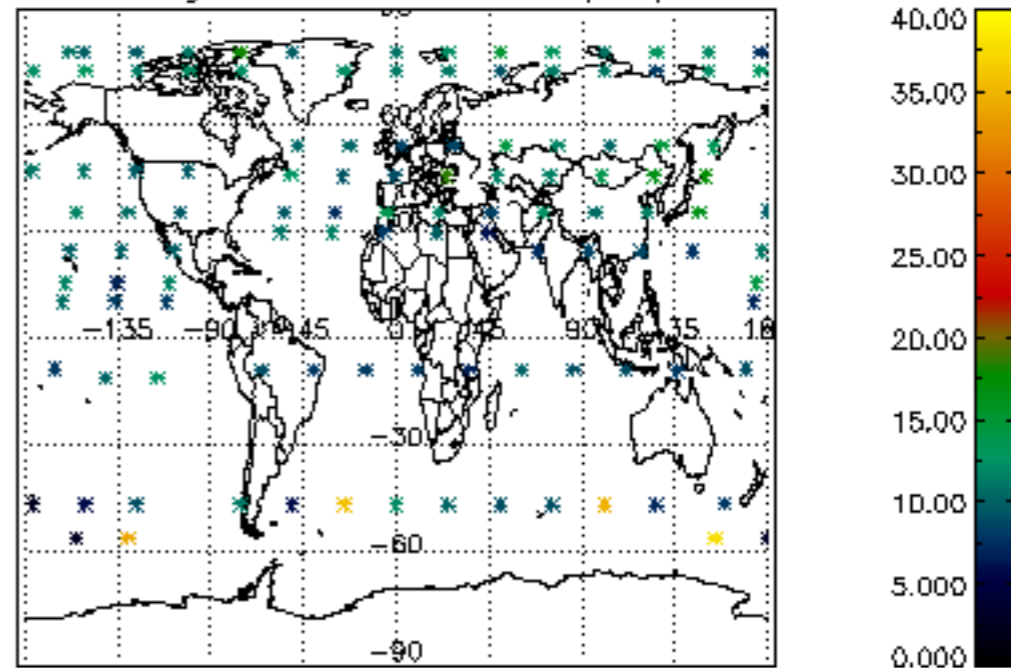
Percentage of datation errors per profile

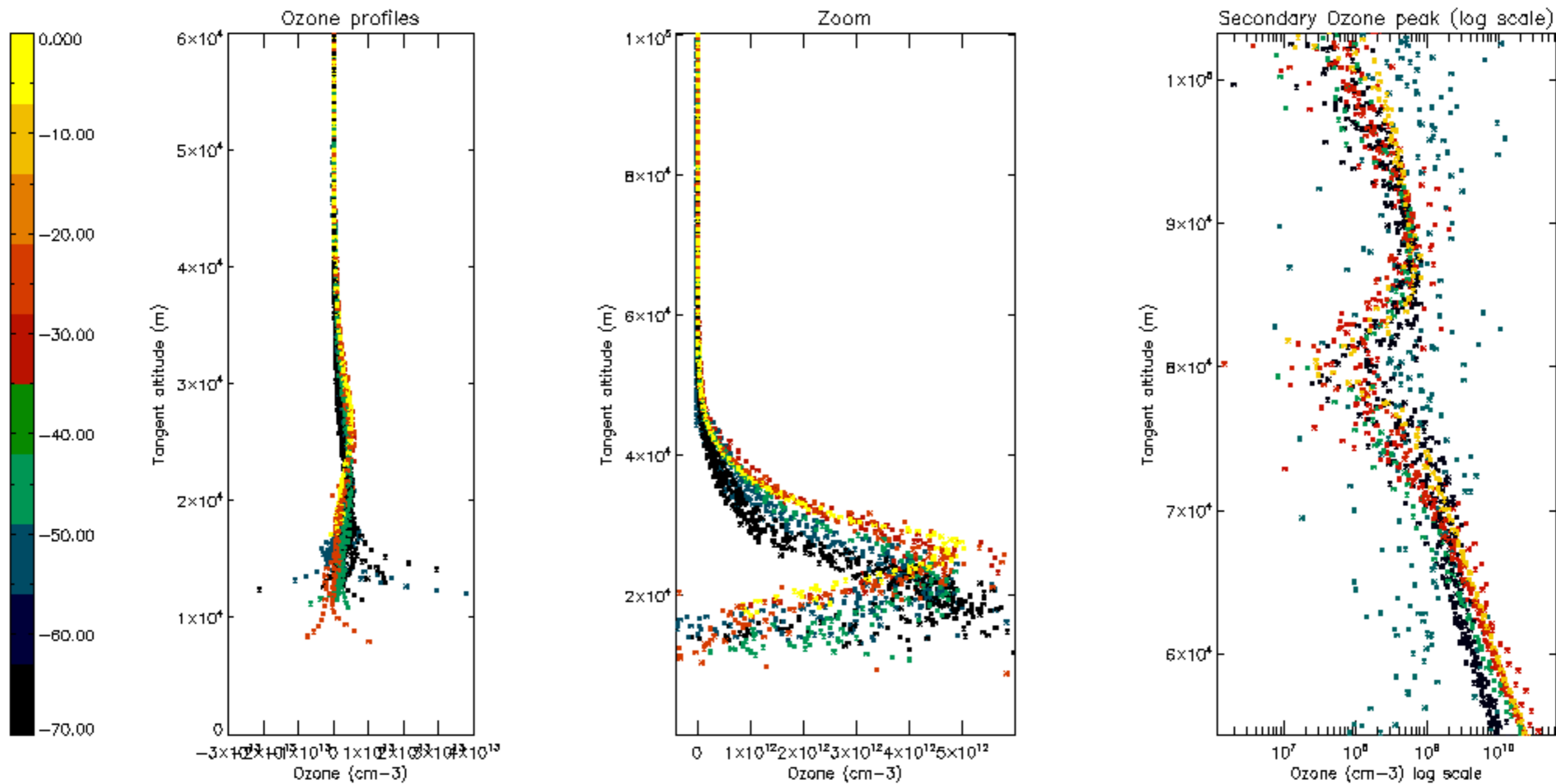


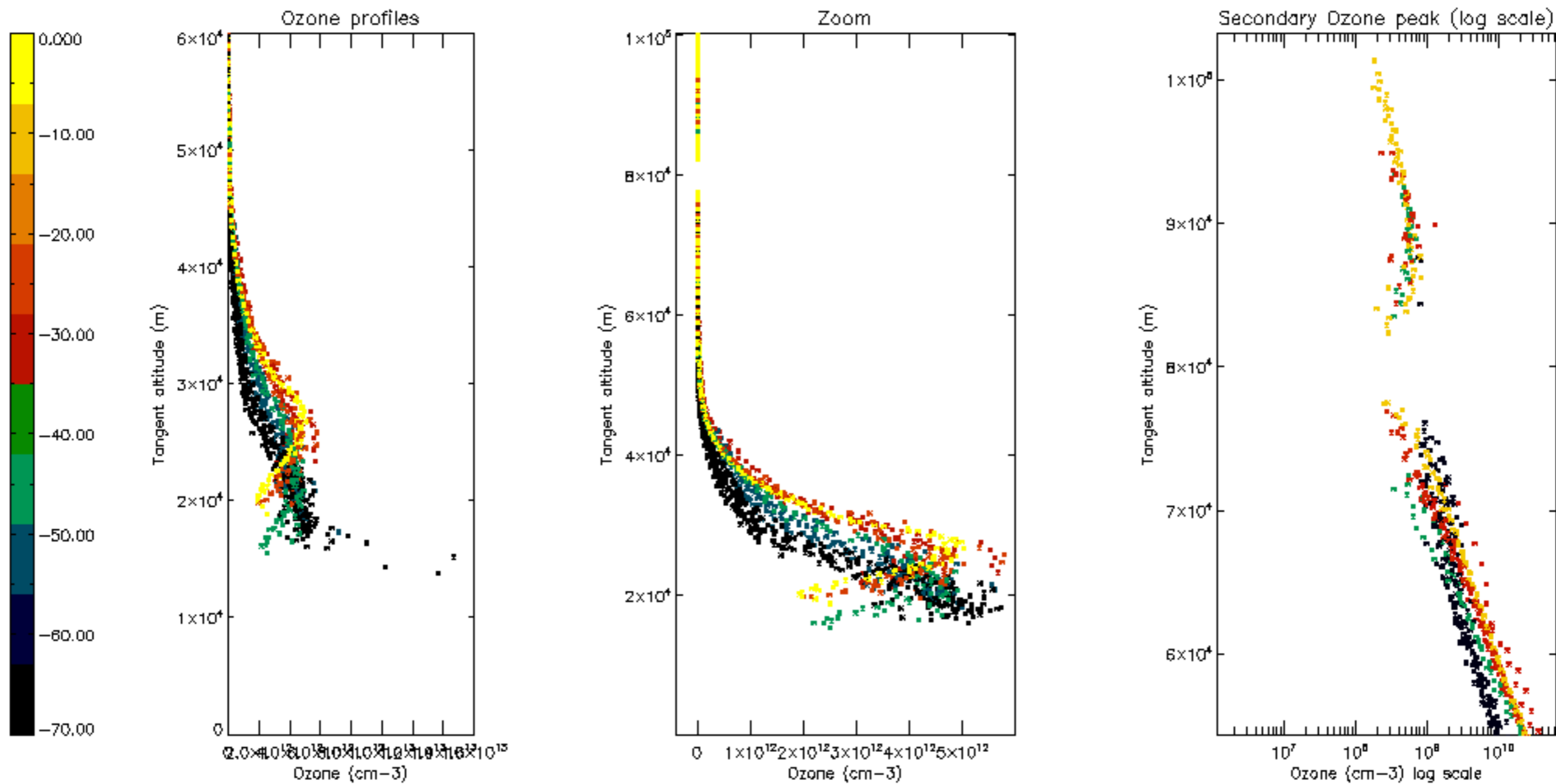
Percentage of star falling outside central band per profile

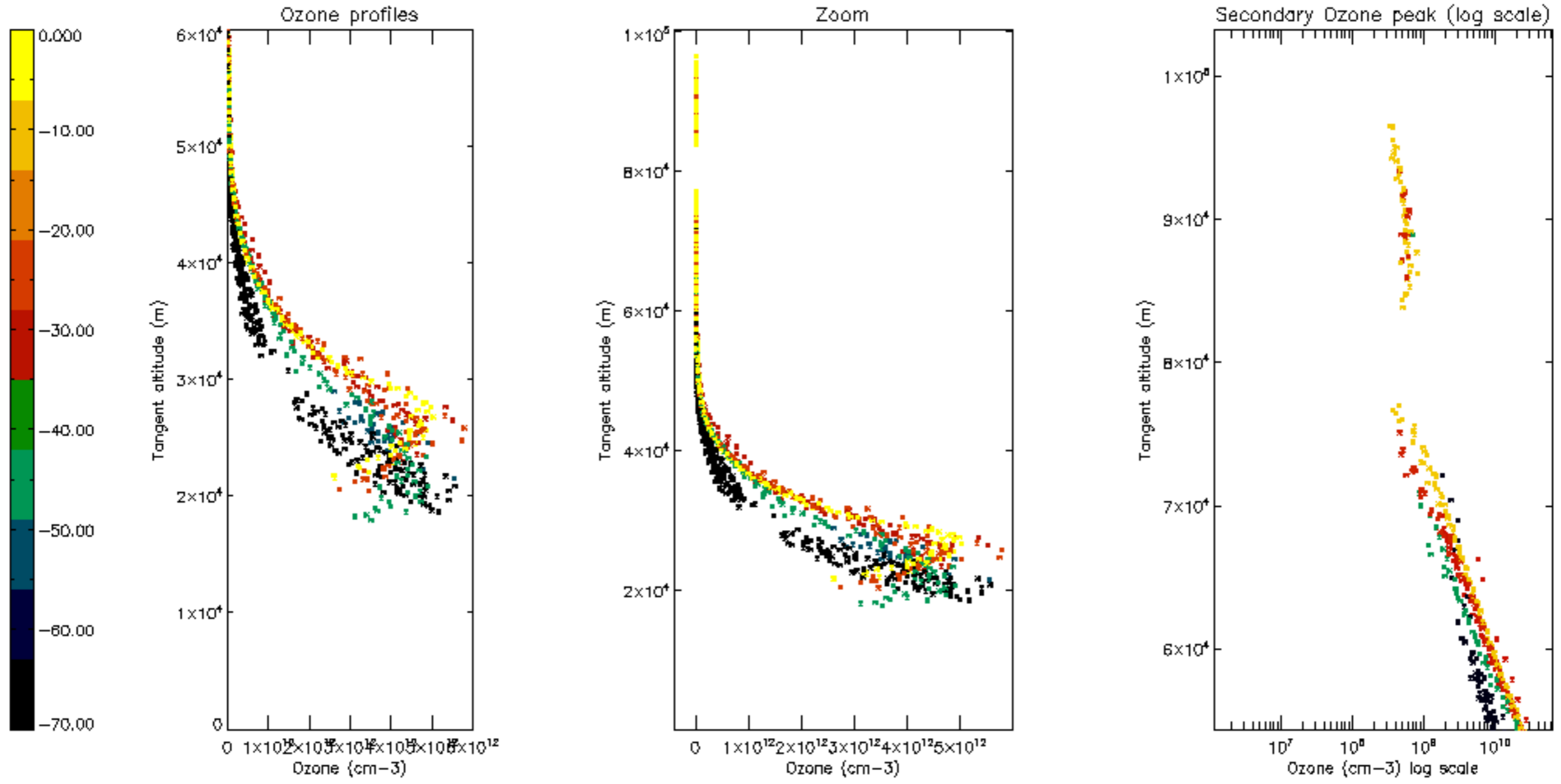


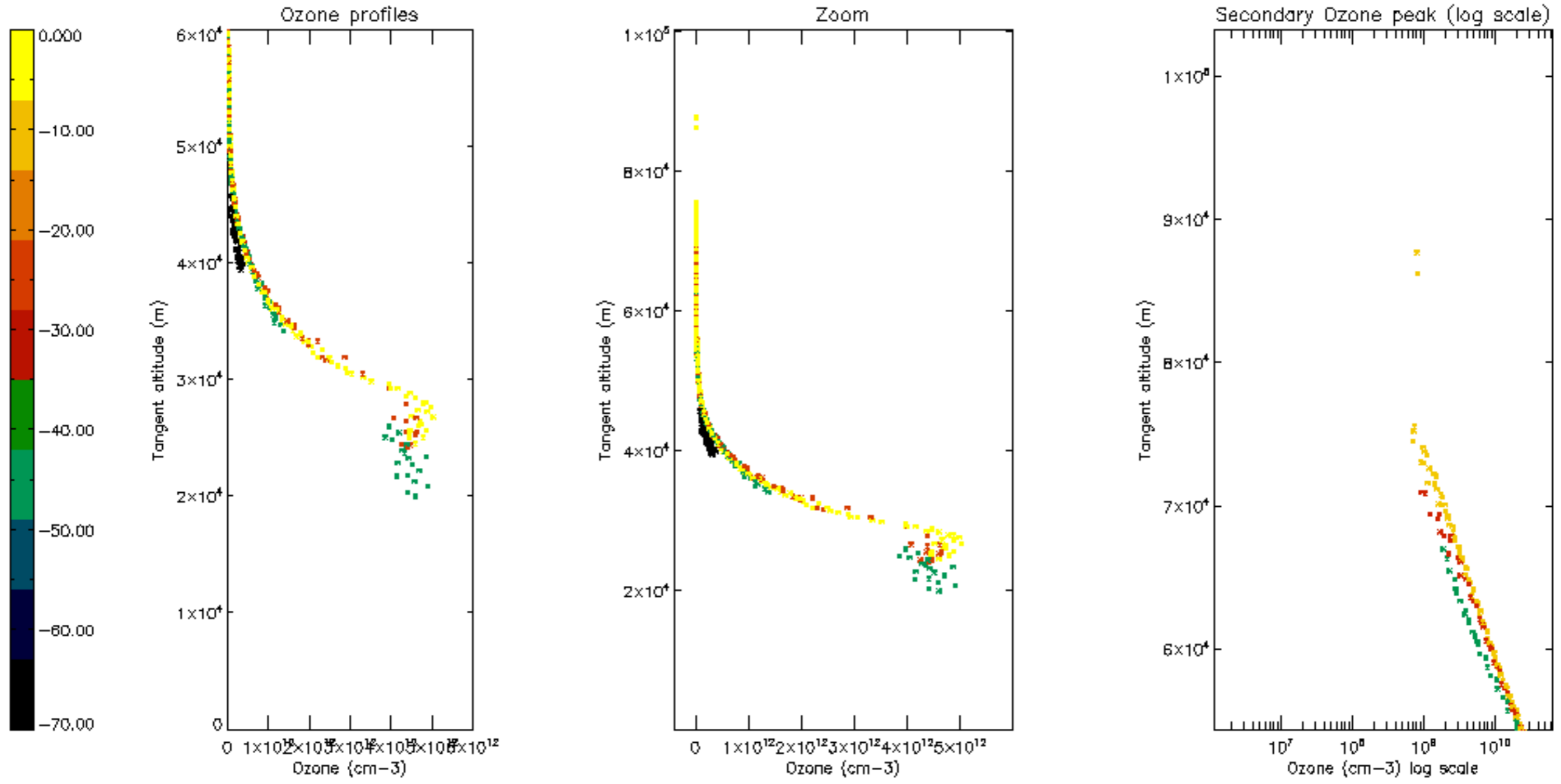
Percentage of saturation errors per profile

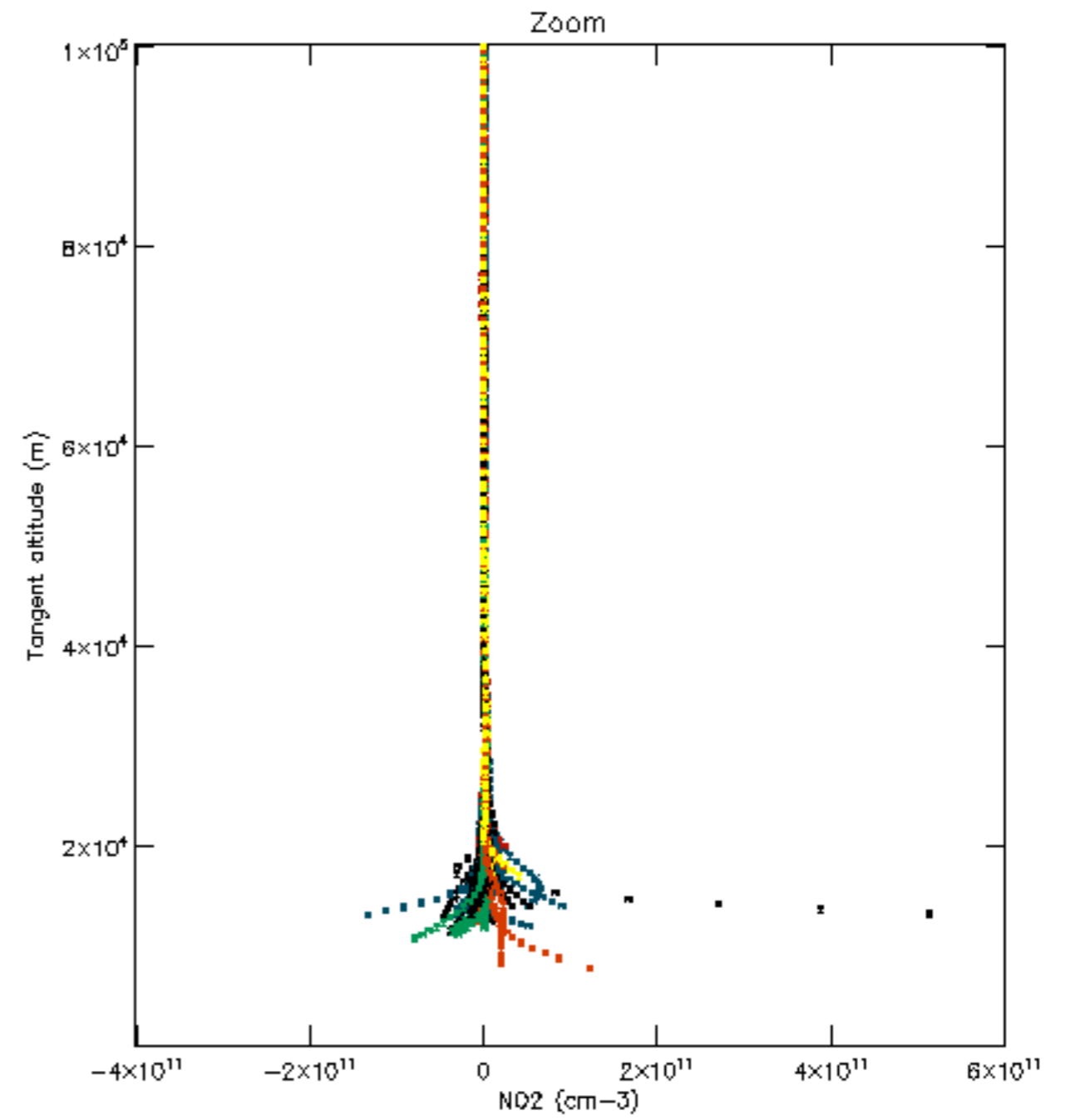
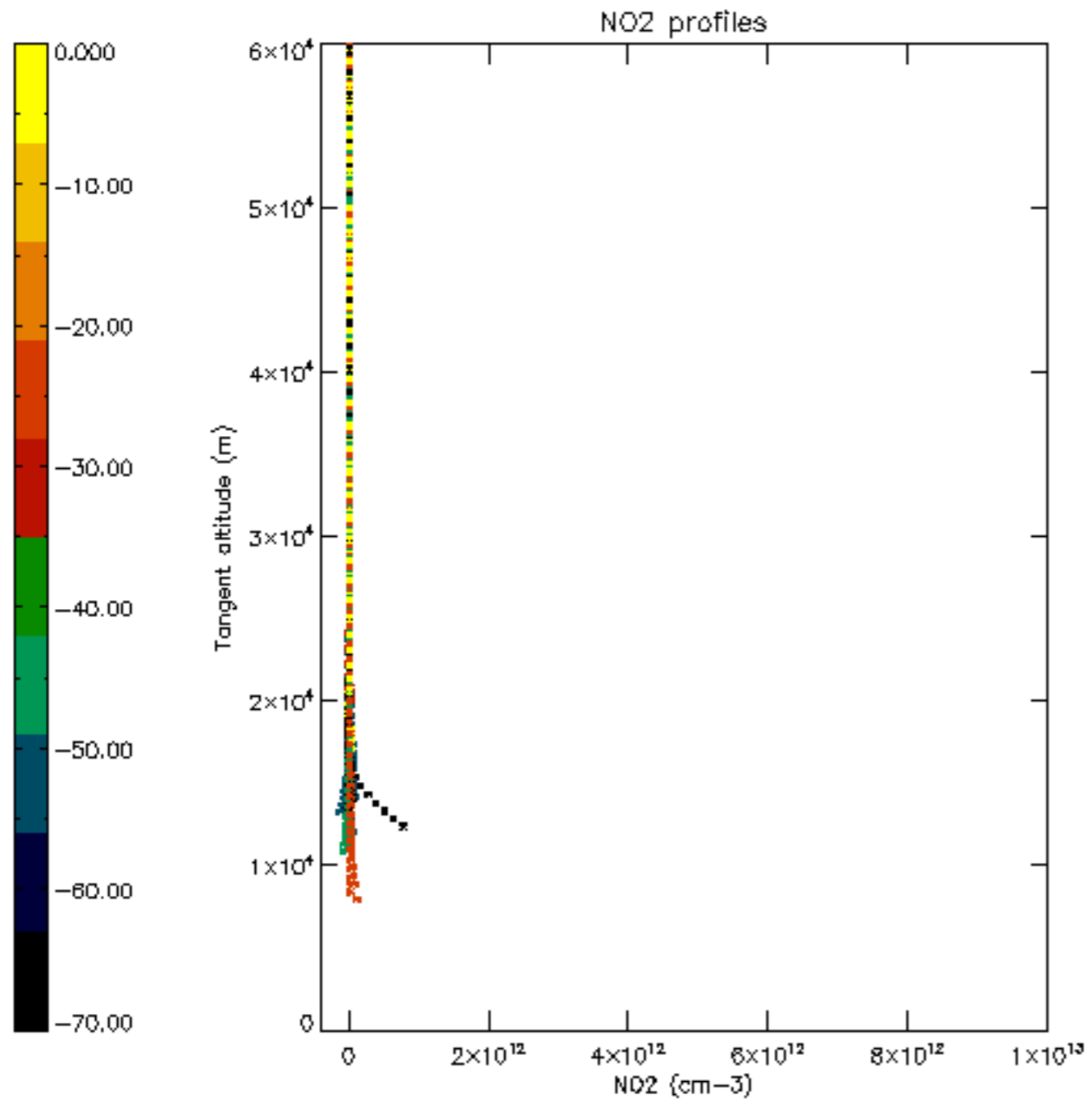


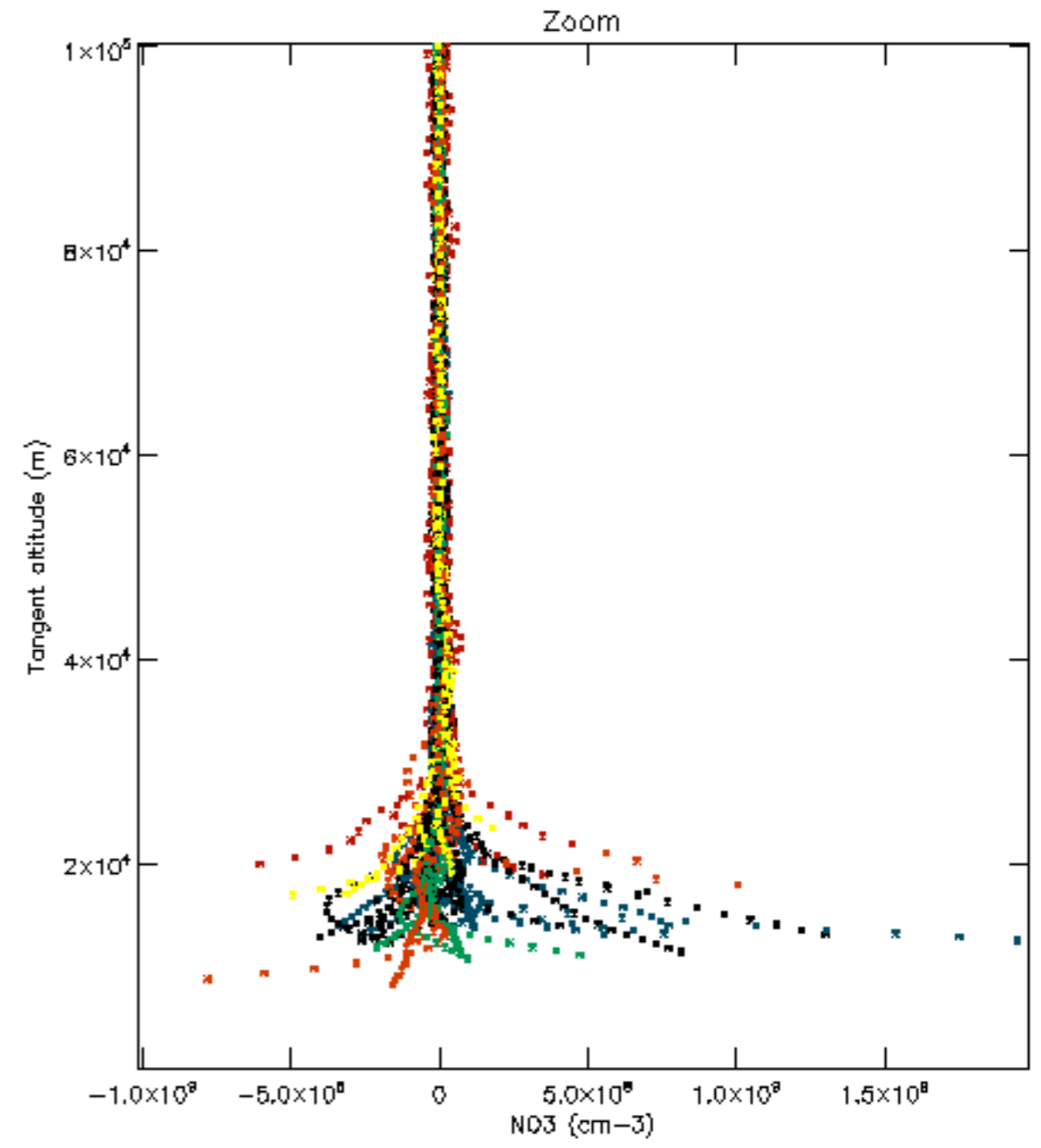
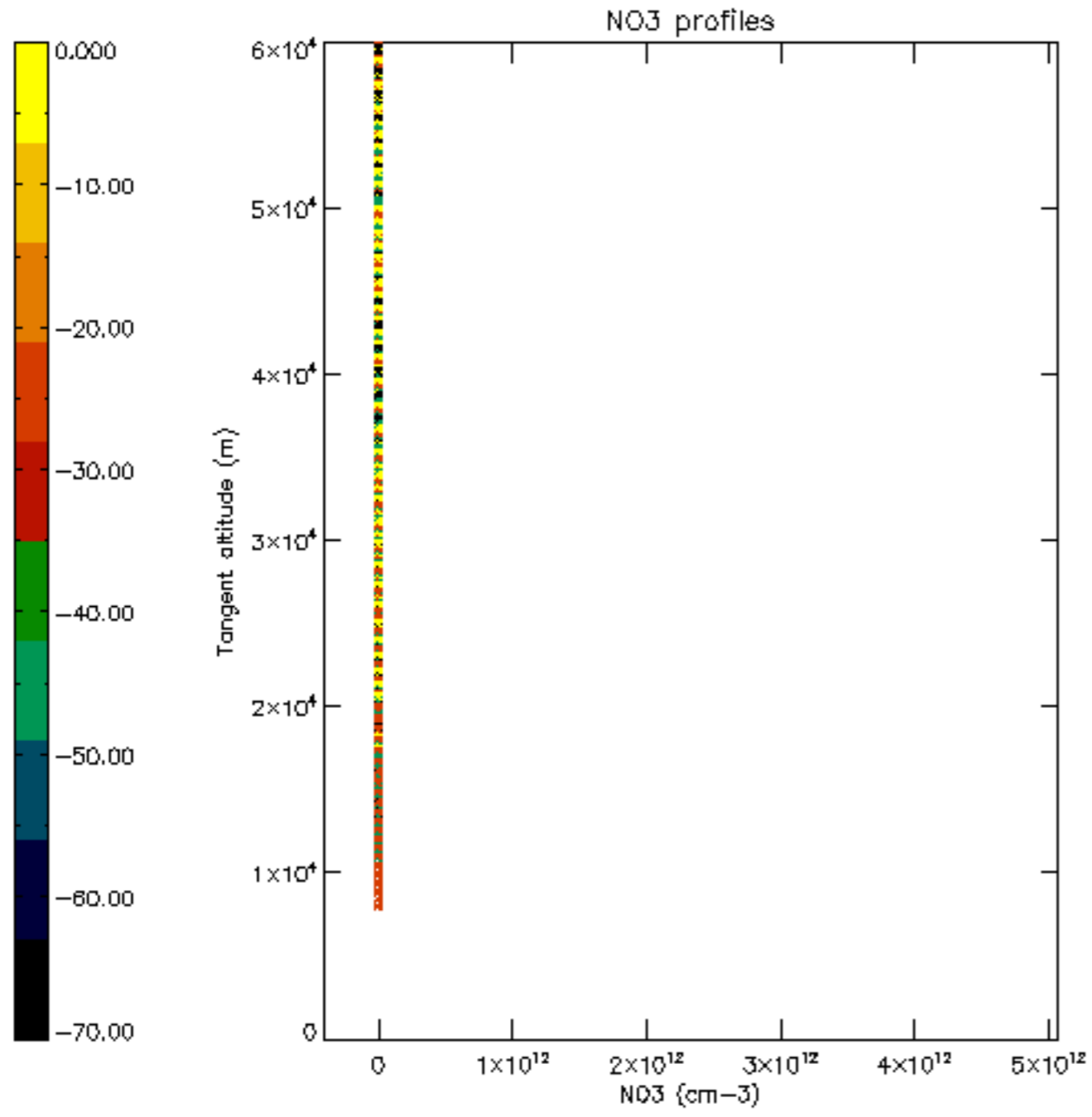


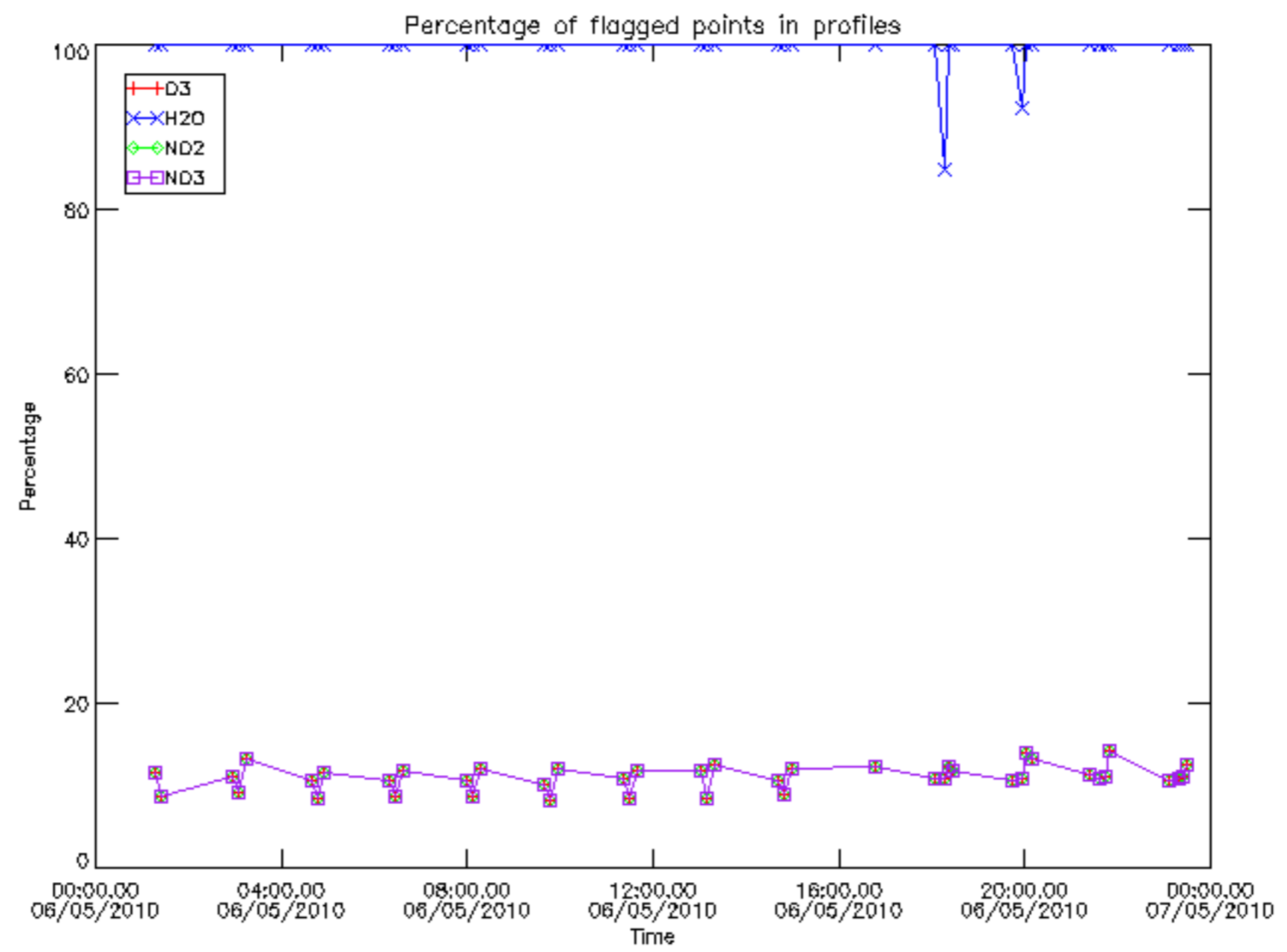




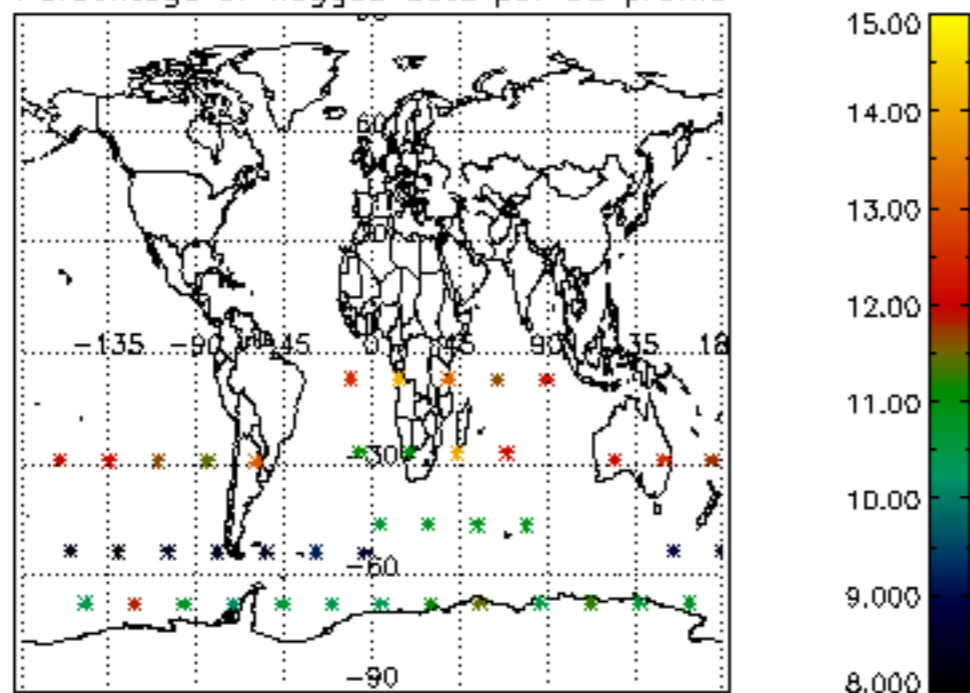




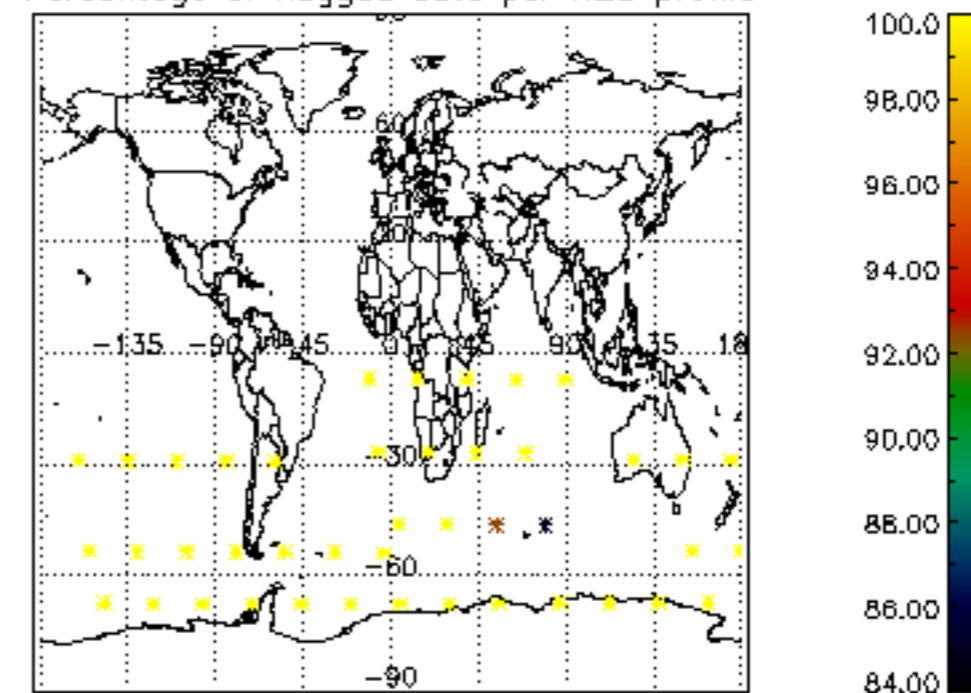




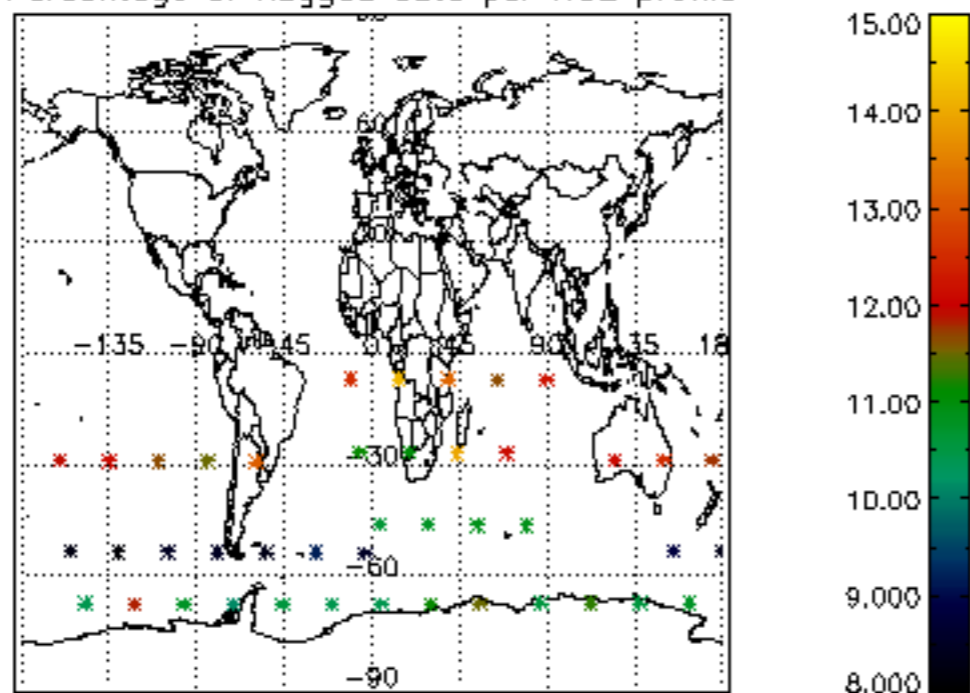
Percentage of flagged data per D3 profile



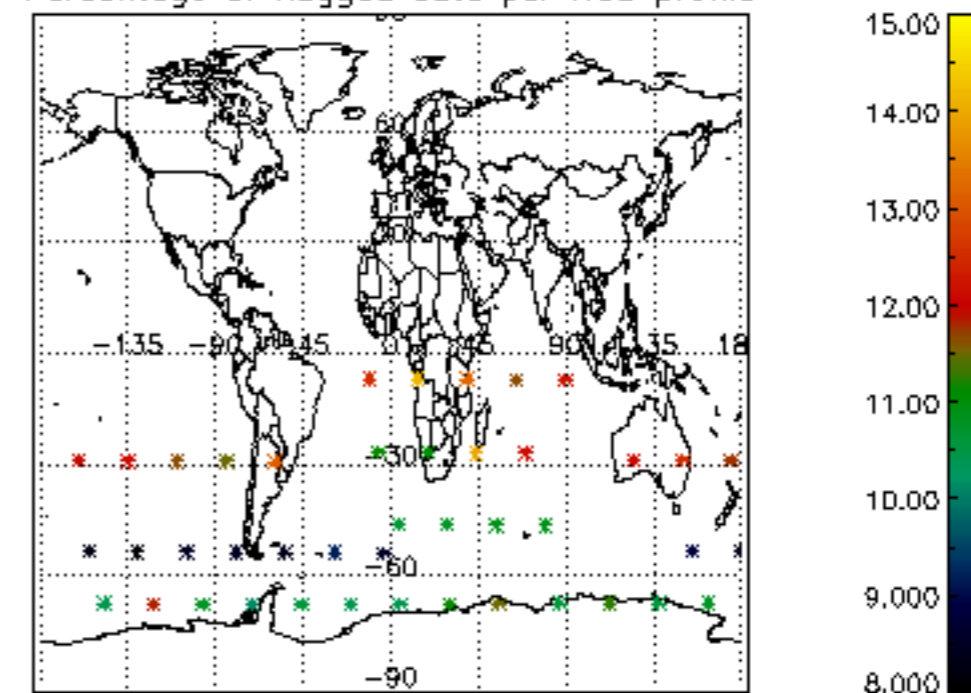
Percentage of flagged data per H2O profile

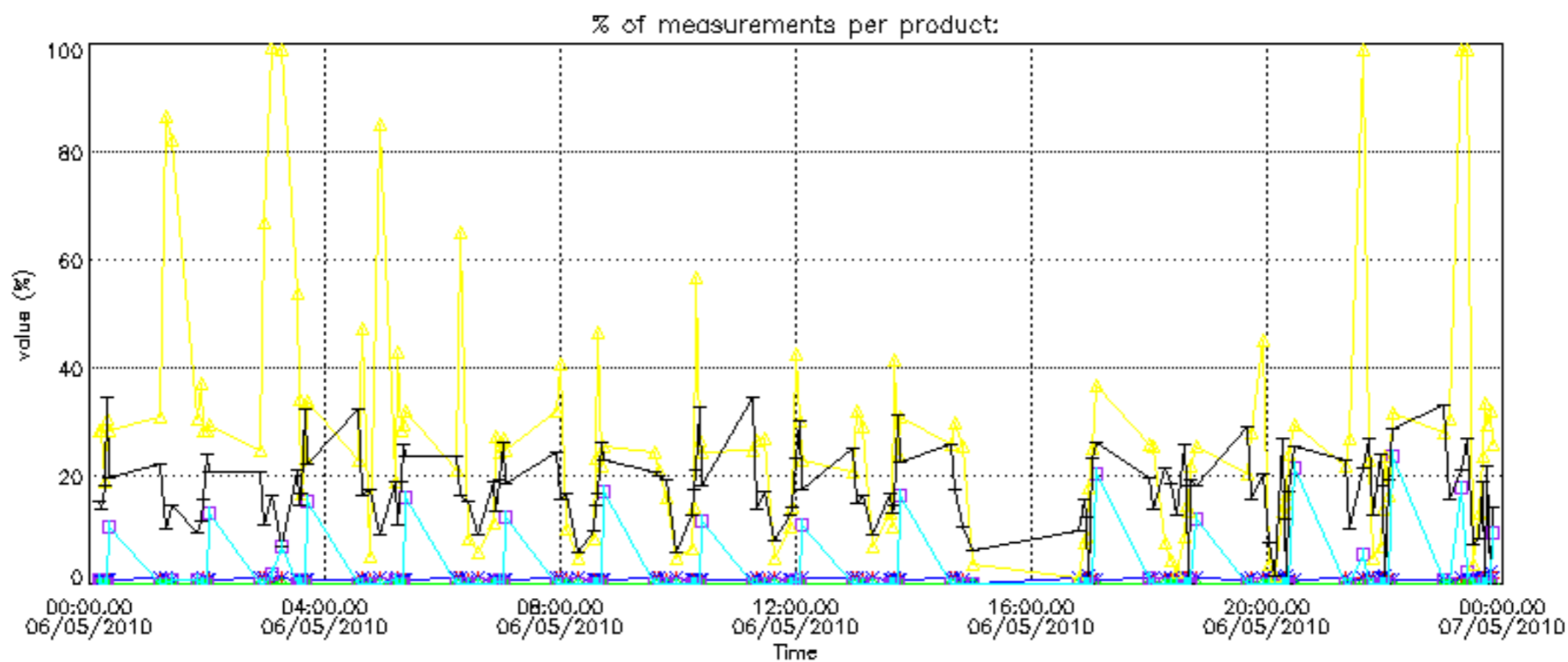


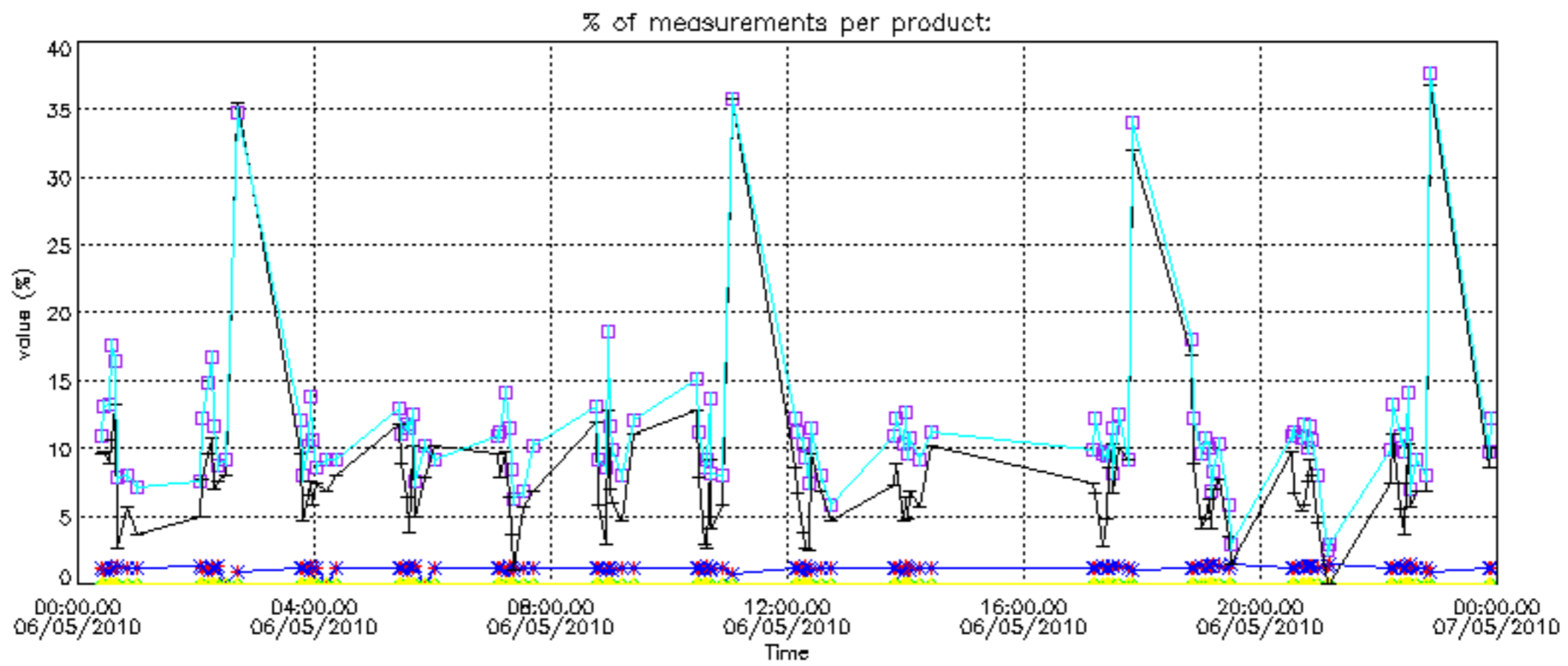
Percentage of flagged data per NO2 profile



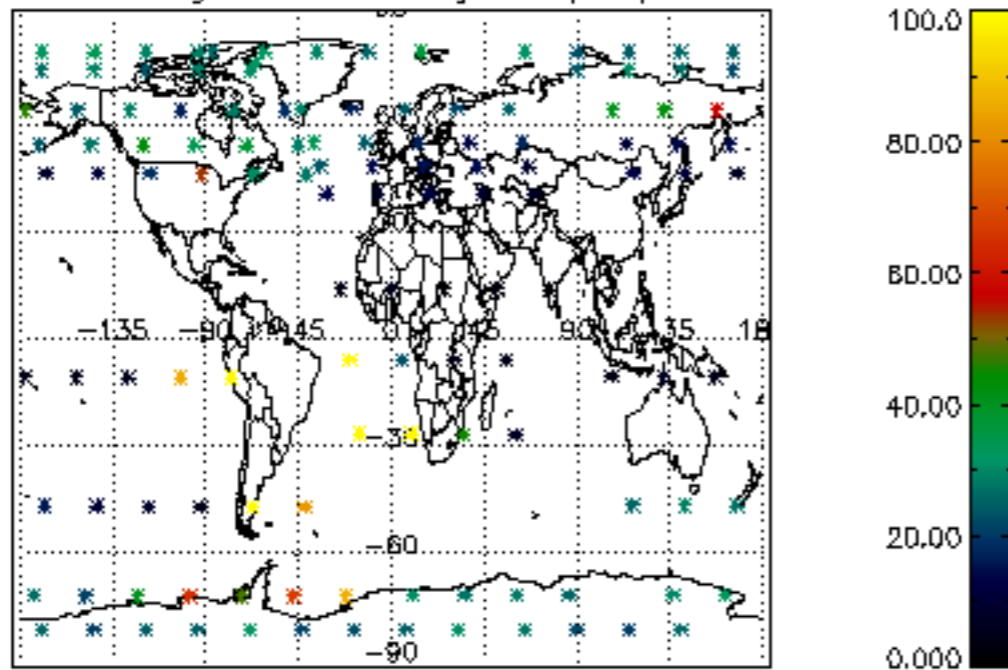
Percentage of flagged data per NO3 profile



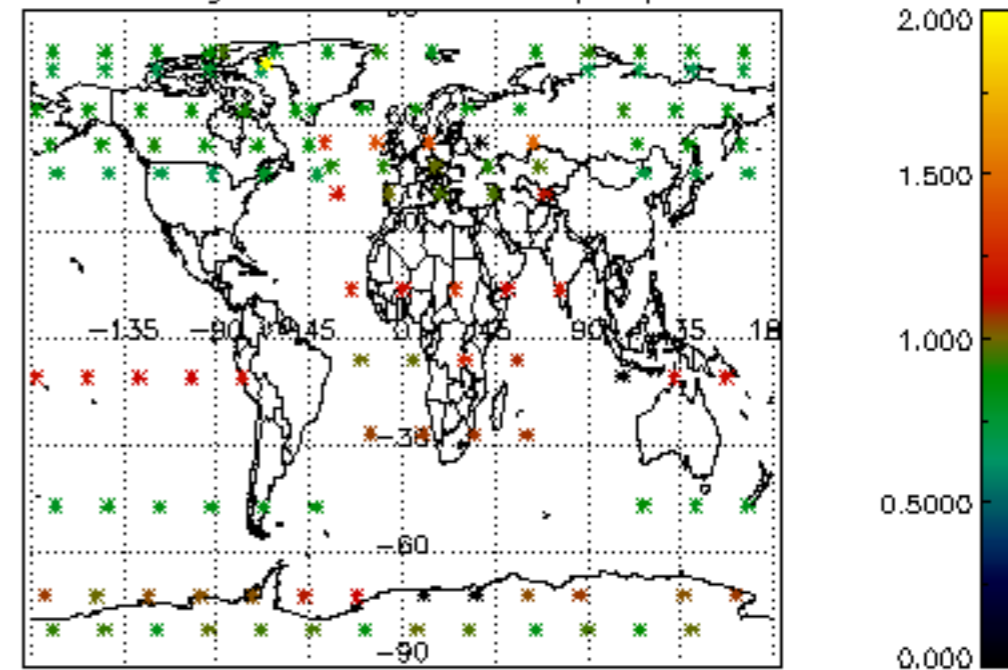




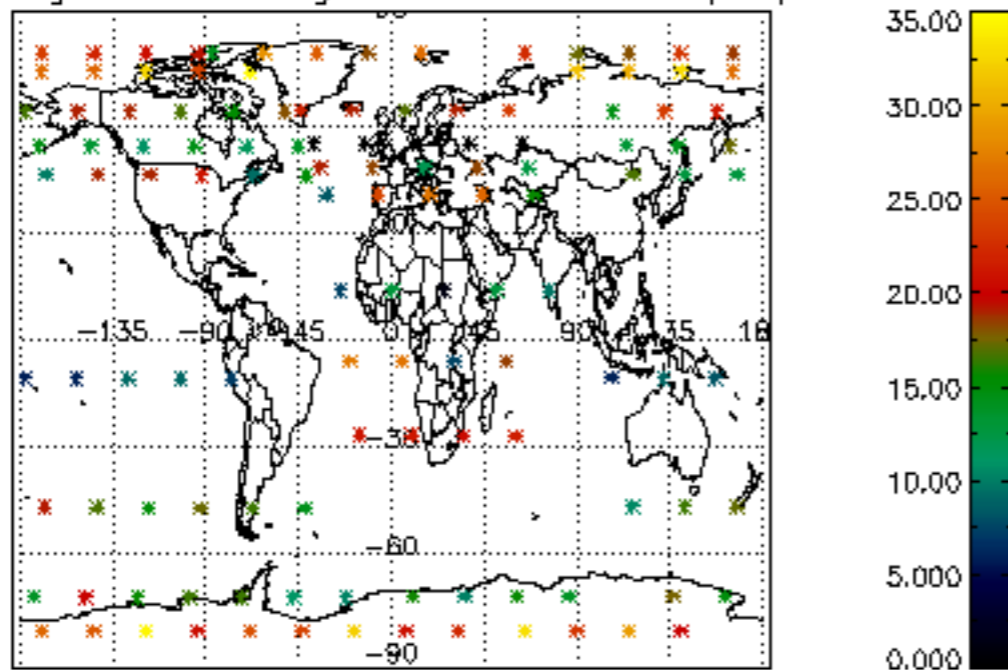
Percentage of cosmic ray hits per profile



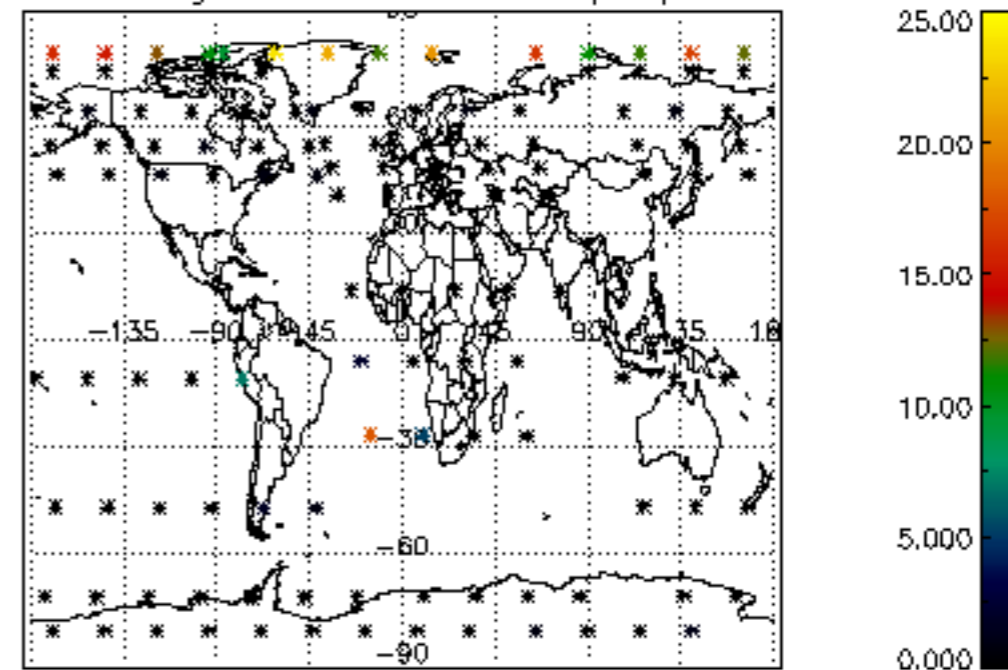
Percentage of datation errors per profile



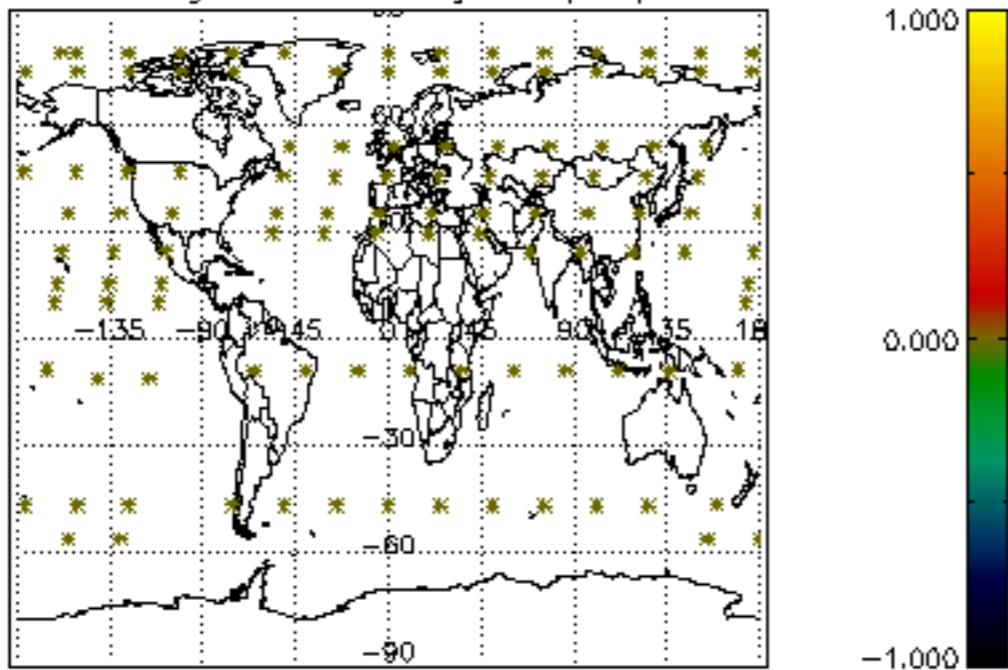
Percentage of star falling outside central band per profile



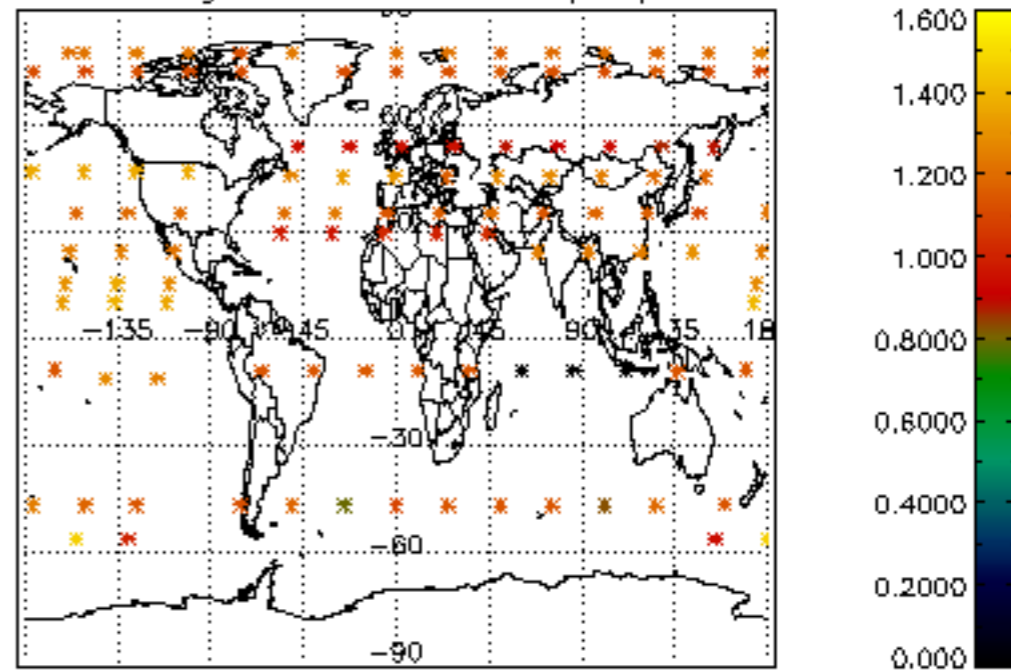
Percentage of saturation errors per profile



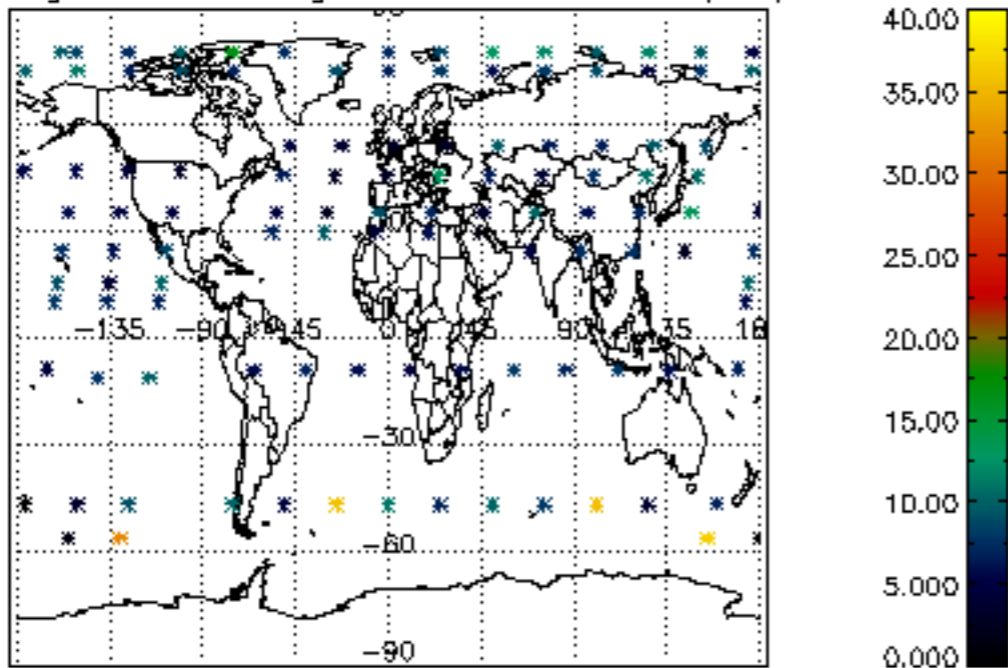
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

