

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	22APR2013 22:41:37
Data source version	GOMOS/6.01
Start time of products	02-08-2007 (02AUG2007 00:00:00)
Stop time of products	03-08-2007 (03AUG2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	237
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

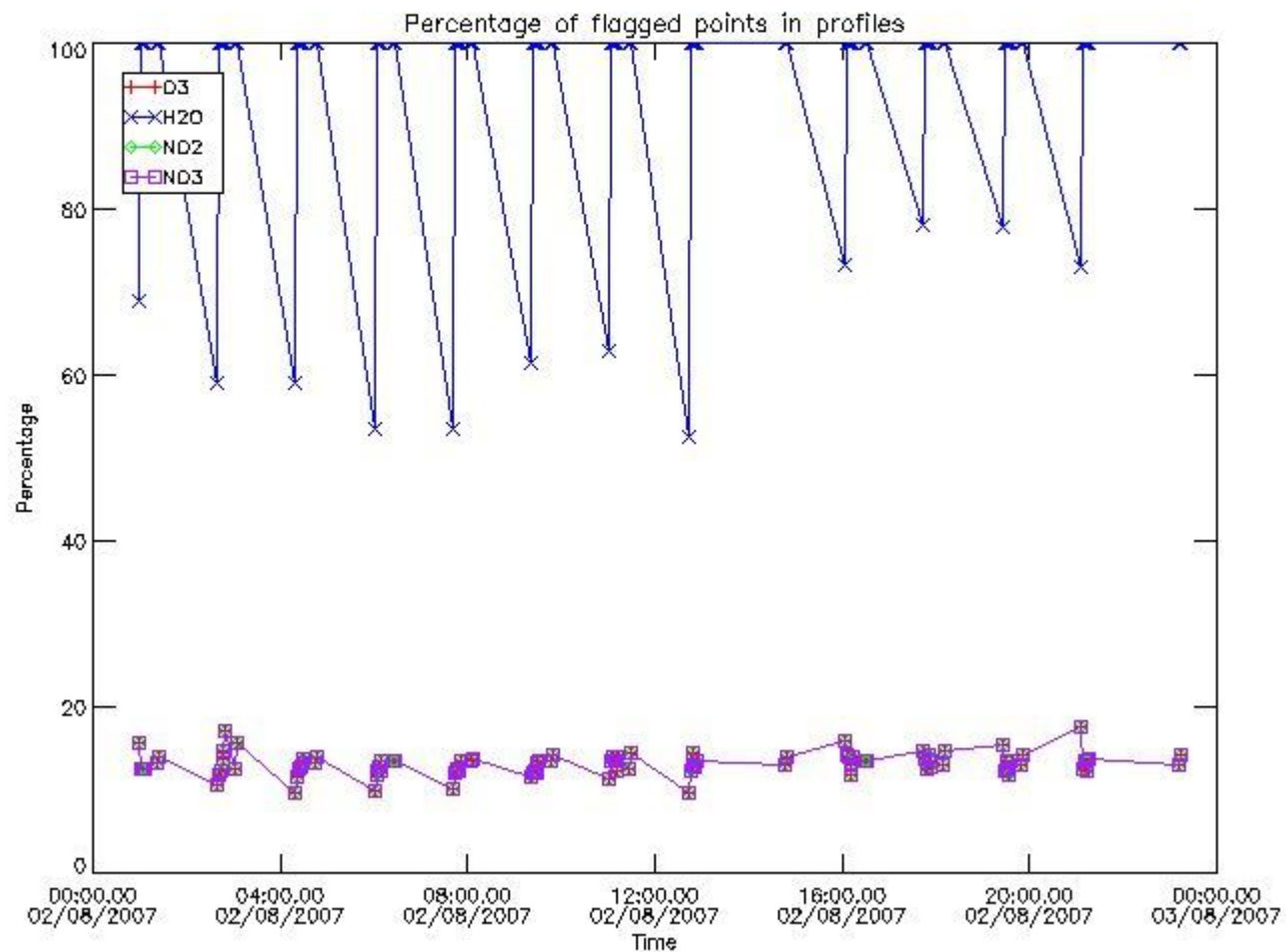
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20070802_000055_000000512060_00231_28341_4488.N1	02-AUG-2007 00:00:55	Bright	51.000	103	38Zet Sgr	2.6000	9700.0	102	28341	No
2	GOM_NL__2PRFIN20070802_000318_000000382060_00231_28341_4489.N1	02-AUG-2007 00:03:18	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	28341	No
3	GOM_NL__2PRFIN20070802_001306_000000342060_00231_28341_4490.N1	02-AUG-2007 00:13:06	Bright	34.000	168	17Zet Aql	2.9860	11000.	68	28341	No
4	GOM_NL__2PRFIN20070802_002011_000000352060_00231_28341_4491.N1	02-AUG-2007 00:20:11	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	28341	No
5	GOM_NL__2PRFIN20070802_002359_000000372060_00231_28341_4492.N1	02-AUG-2007 00:23:59	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	28341	No
6	GOM_NL__2PRFIN20070802_003209_000000342060_00231_28341_4493.N1	02-AUG-2007 00:32:09	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	28341	No
7	GOM_NL__2PRFIN20070802_003442_000000332060_00231_28341_4494.N1	02-AUG-2007 00:34:42	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	28341	No
8	GOM_NL__2PRFIN20070802_004734_000000472060_00231_28341_4495.N1	02-AUG-2007 00:47:34	Bright	46.500	42	34Bet Aur	1.9000	10200.	93	28341	No
9	GOM_NL__2PRFIN20070802_004948_000000342060_00231_28341_4496.N1	02-AUG-2007 00:49:48	Bright	34.000	107	37The Aur	2.6490	11000.	68	28341	No
10	GOM_NL__2PRFIN20070802_005442_000000412060_00231_28341_4497.N1	02-AUG-2007 00:54:42	Twilight	41.000	176	23Zet Tau	3.0200	22000.	82	28341	No
11	GOM_NL__2PRFIN20070802_005822_000000392060_00231_28341_4498.N1	02-AUG-2007 00:58:22	Dark	39.000	14	58Alp Ori	0.87000	3000.0	78	28341	No
12	GOM_NL__2PRFIN20070802_010108_000000412060_00231_28341_4499.N1	02-AUG-2007 01:01:08	Dark	40.500	30	46Eps Ori	1.6940	30000.	81	28341	No
13	GOM_NL__2PRFIN20070802_010315_000000412060_00231_28341_4500.N1	02-AUG-2007 01:03:15	Dark	41.000	56	53Kap Ori	2.0650	30000.	82	28341	No
14	GOM_NL__2PRFIN20070802_010458_000000412060_00231_28341_4501.N1	02-AUG-2007 01:04:58	Dark	40.500	47	2Bet CMa	1.9760	28000.	81	28341	No
15	GOM_NL__2PRFIN20070802_010641_000000412060_00231_28341_4502.N1	02-AUG-2007 01:06:41	Dark	41.000	139	9Bet Lep	2.8330	5600.0	82	28341	No
16	GOM_NL__2PRFIN20070802_012232_000000392060_00232_28342_4497.N1	02-AUG-2007 01:22:32	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	28342	No
17	GOM_NL__2PRFIN20070802_012505_000000402060_00232_28342_4498.N1	02-AUG-2007 01:25:05	Dark	40.000	135	Bet Hyi	2.8200	5800.0	80	28342	No
18	GOM_NL__2PRFIN20070802_012958_000000392060_00232_28342_4499.N1	02-AUG-2007 01:29:58	Straylight	39.000	148	Alp Tuc	2.8780	4100.0	78	28342	No
19	GOM_NL__2PRFIN20070802_013310_000000412060_00232_28342_4500.N1	02-AUG-2007 01:33:10	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	28342	No
20	GOM_NL__2PRFIN20070802_014131_000000462060_00232_28342_4501.N1	02-AUG-2007 01:41:31	Bright	46.000	103	38Zet Sgr	2.6000	9700.0	92	28342	No
21	GOM_NL__2PRFIN20070802_014354_000000372060_00232_28342_4502.N1	02-AUG-2007 01:43:54	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	28342	No
22	GOM_NL__2PRFIN20070802_015342_000000352060_00232_28342_4503.N1	02-AUG-2007 01:53:42	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	28342	No
23	GOM_NL__2PRFIN20070802_020047_000000372060_00232_28342_4504.N1	02-AUG-2007 02:00:47	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	28342	No
24	GOM_NL__2PRFIN20070802_020435_000000382060_00232_28342_4505.N1	02-AUG-2007 02:04:35	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	28342	No
25	GOM_NL__2PRFIN20070802_021245_000000322060_00232_28342_4506.N1	02-AUG-2007 02:12:45	Bright	32.000	60	7Bet UMi	2.0810	3950.0	64	28342	No
26	GOM_NL__2PRFIN20070802_021518_000000352060_00232_28342_4507.N1	02-AUG-2007 02:15:18	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	28342	No
27	GOM_NL__2PRFIN20070802_022810_000000352060_00232_28342_4508.N1	02-AUG-2007 02:28:10	Bright	34.500	42	34Bet Aur	1.9000	10200.	69	28342	No
28	GOM_NL__2PRFIN20070802_023024_000000522060_00232_28342_4509.N1	02-AUG-2007 02:30:24	Bright	52.000	107	37The Aur	2.6490	11000.	104	28342	No
29	GOM_NL__2PRFIN20070802_023518_000000402060_00232_28342_4510.N1	02-AUG-2007 02:35:18	Twilight	40.000	176	23Zet Tau	3.0200	22000.	80	28342	No
30	GOM_NL__2PRFIN20070802_023858_000000482060_00232_28342_4511.N1	02-AUG-2007 02:38:58	Dark	48.000	14	58Alp Ori	0.87000	3000.0	96	28342	No
31	GOM_NL__2PRFIN20070802_024144_000000432060_00232_28342_4512.N1	02-AUG-2007 02:41:44	Dark	43.000	30	46Eps Ori	1.6940	30000.	86	28342	No
32	GOM_NL__2PRFIN20070802_024351_000000422060_00232_28342_4513.N1	02-AUG-2007 02:43:51	Dark	41.500	56	53Kap Ori	2.0650	30000.	83	28342	No
33	GOM_NL__2PRFIN20070802_024534_000000412060_00232_28342_4514.N1	02-AUG-2007 02:45:34	Dark	40.500	47	2Bet CMa	1.9760	28000.	81	28342	No
34	GOM_NL__2PRFIN20070802_024718_000000422060_00232_28342_4515.N1	02-AUG-2007 02:47:18	Dark	41.500	139	9Bet Lep	2.8330	5600.0	83	28342	No
35	GOM_NL__2PRFIN20070802_024855_000000362060_00232_28342_4516.N1	02-AUG-2007 02:48:55	Dark	35.500	177	1Zet CMa	3.0220	26000.	71	28342	No
36	GOM_NL__2PRFIN20070802_030308_000000412060_00233_28343_4522.N1	02-AUG-2007 03:03:08	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	28343	No
37	GOM_NL__2PRFIN20070802_030541_000000362060_00233_28343_4523.N1	02-AUG-2007 03:05:41	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	28343	No
38	GOM_NL__2PRFIN20070802_031035_000000422060_00233_28343_4524.N1	02-AUG-2007 03:10:35	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	28343	No
39	GOM_NL__2PRFIN20070802_031346_000000392060_00233_28343_4525.N1	02-AUG-2007 03:13:46	Straylight	38.500	45	Alp Pav	1.9400	26000.	77	28343	No
40	GOM_NL__2PRFIN20070802_032207_000000422060_00233_28343_4526.N1	02-AUG-2007 03:22:07	Bright	42.000	103	38Zet Sgr	2.6000	9700.0	84	28343	No
41	GOM_NL__2PRFIN20070802_032430_000000372060_00233_28343_4527.N1	02-AUG-2007 03:24:30	Bright	36.500	155	41Pi Sgr	2.9000	6600.0	73	28343	No
42	GOM_NL__2PRFIN20070802_033418_000000352060_00233_28343_4528.N1	02-AUG-2007 03:34:18	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	28343	No

220	GOM_NL__2PRFIN20070802_204153_000000362060_00243_28353_4807.N1	02-AUG-2007 20:41:53	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	28353	No
221	GOM_NL__2PRFIN20070802_205446_000000352060_00243_28353_4808.N1	02-AUG-2007 20:54:46	Bright	34.500	42	34Bet Aur	1.9000	10200.	69	28353	No
222	GOM_NL__2PRFIN20070802_205701_000000362060_00243_28353_4809.N1	02-AUG-2007 20:57:01	Bright	35.500	107	37The Aur	2.6490	11000.	71	28353	No
223	GOM_NL__2PRFIN20070802_210537_000000372060_00243_28353_4810.N1	02-AUG-2007 21:05:37	Dark	37.000	14	58Alp Ori	0.87000	3000.0	74	28353	No
224	GOM_NL__2PRFIN20070802_210823_000000412060_00243_28353_4811.N1	02-AUG-2007 21:08:23	Dark	41.000	30	46Eps Ori	1.6940	30000.	82	28353	No
225	GOM_NL__2PRFIN20070802_211030_000000382060_00243_28353_4812.N1	02-AUG-2007 21:10:30	Dark	38.000	56	53Kap Ori	2.0650	30000.	76	28353	No
226	GOM_NL__2PRFIN20070802_211211_000000382060_00243_28353_4813.N1	02-AUG-2007 21:12:11	Dark	37.500	47	2Bet CMa	1.9760	28000.	75	28353	No
227	GOM_NL__2PRFIN20070802_211357_000000422060_00243_28353_4814.N1	02-AUG-2007 21:13:57	Dark	41.500	139	9Bet Lep	2.8330	5600.0	83	28353	No
228	GOM_NL__2PRFIN20070802_211532_000000372060_00243_28353_4815.N1	02-AUG-2007 21:15:32	Dark	37.000	177	1Zet CMa	3.0220	26000.	74	28353	No
229	GOM_NL__2PRFIN20070802_231026_000000392060_00245_28355_4735.N1	02-AUG-2007 23:10:26	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	28355	No
230	GOM_NL__2PRFIN20070802_231255_000000362060_00245_28355_4736.N1	02-AUG-2007 23:12:55	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	28355	No
231	GOM_NL__2PRFIN20070802_231751_000000422060_00245_28355_4737.N1	02-AUG-2007 23:17:51	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	28355	No
232	GOM_NL__2PRFIN20070802_232100_000000412060_00245_28355_4738.N1	02-AUG-2007 23:21:00	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	28355	No
233	GOM_NL__2PRFIN20070802_232921_000000432060_00245_28355_4739.N1	02-AUG-2007 23:29:21	Bright	42.500	103	38Zet Sgr	2.6000	9700.0	85	28355	No
234	GOM_NL__2PRFIN20070802_233143_000000372060_00245_28355_4740.N1	02-AUG-2007 23:31:43	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	28355	No
235	GOM_NL__2PRFIN20070802_234130_000000352060_00245_28355_4741.N1	02-AUG-2007 23:41:30	Bright	34.500	168	17Zet Aql	2.9860	11000.	69	28355	No
236	GOM_NL__2PRFIN20070802_234835_000000392060_00245_28355_4742.N1	02-AUG-2007 23:48:35	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	28355	No
237	GOM_NL__2PRFIN20070802_235225_000000382060_00245_28355_4743.N1	02-AUG-2007 23:52:25	Bright	38.000	69	33Gam Dra	2.2310	3800.0	76	28355	No

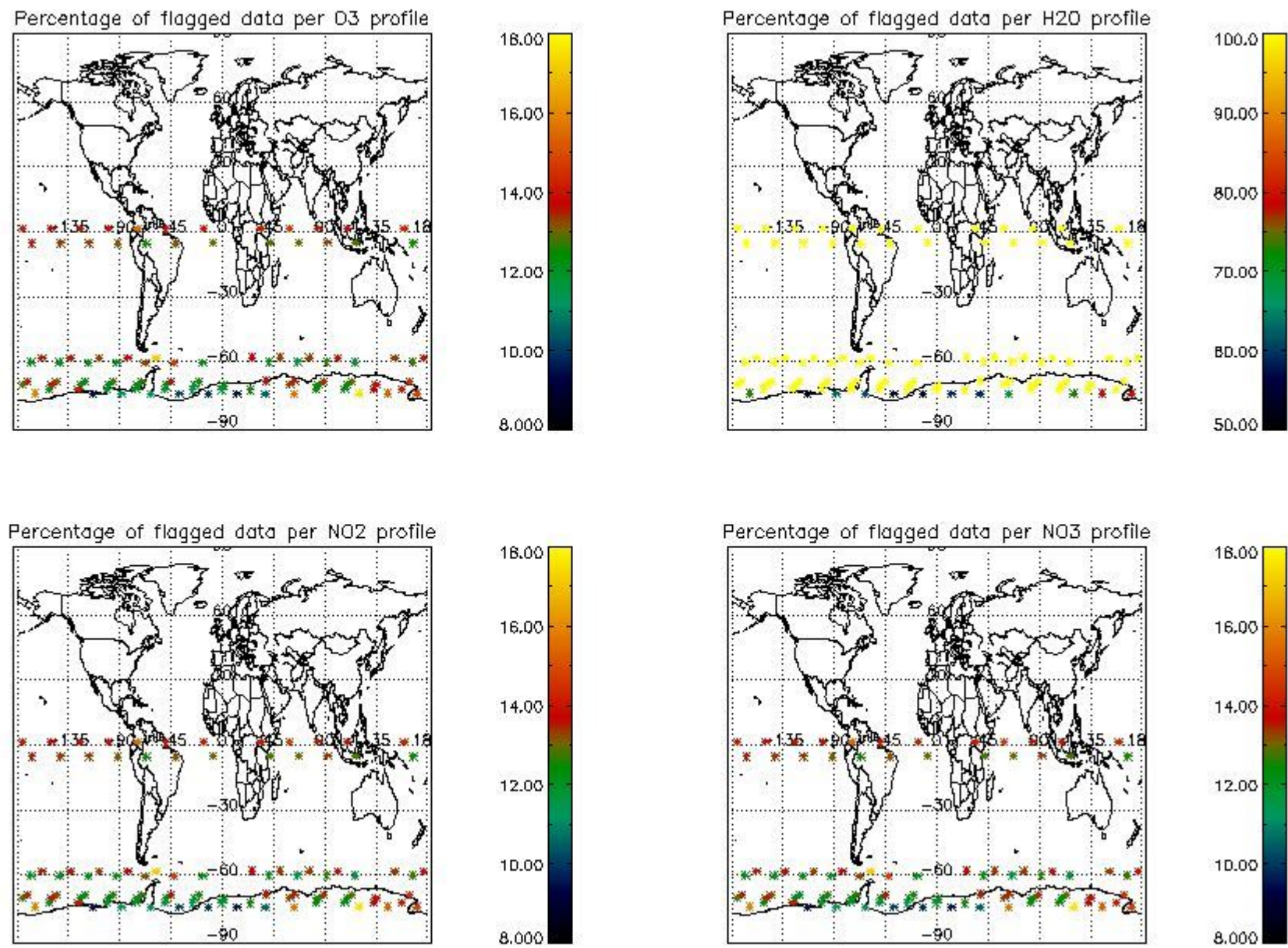
3. Quality information per product

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)

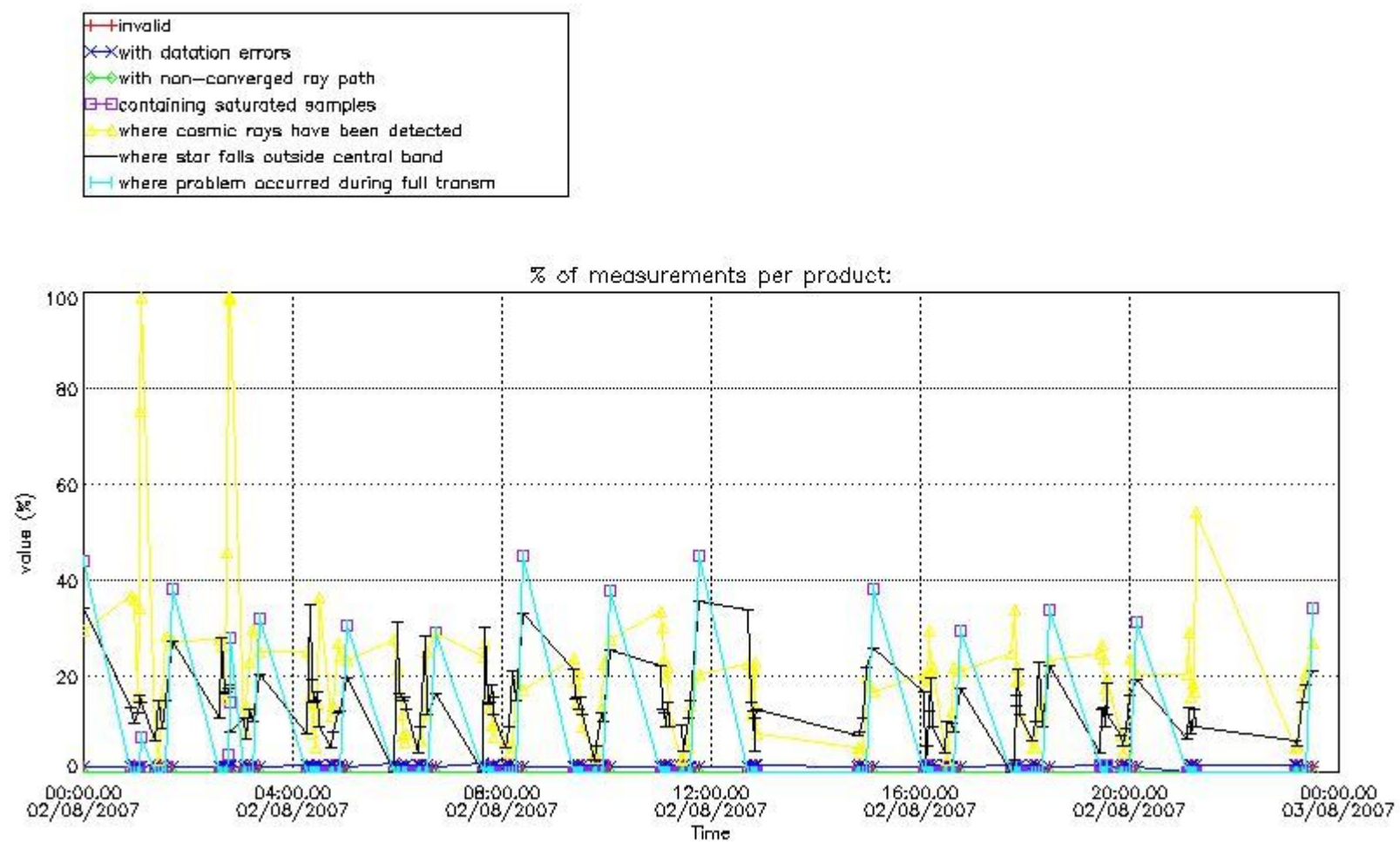


4. Level 1 quality information per product

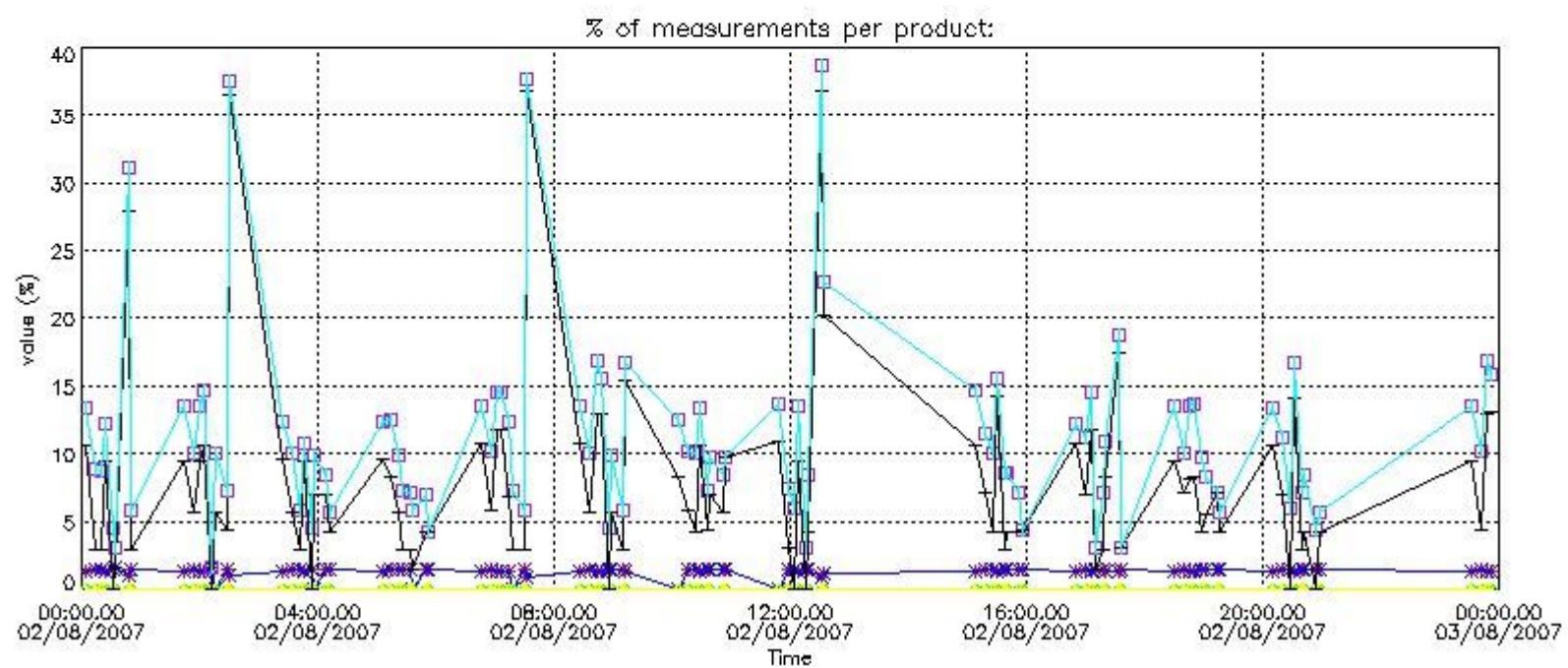
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

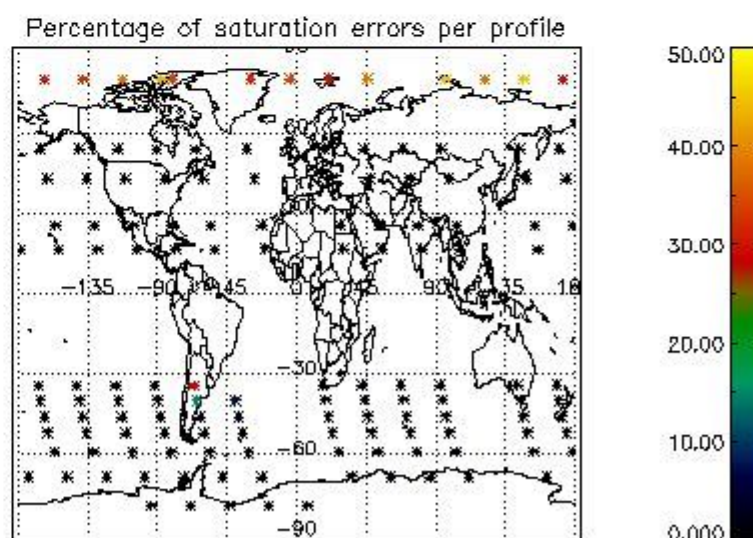
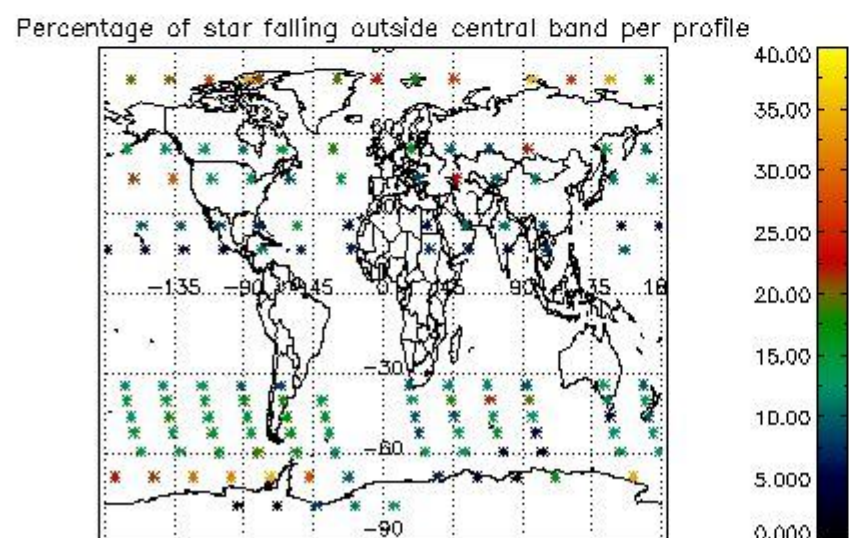
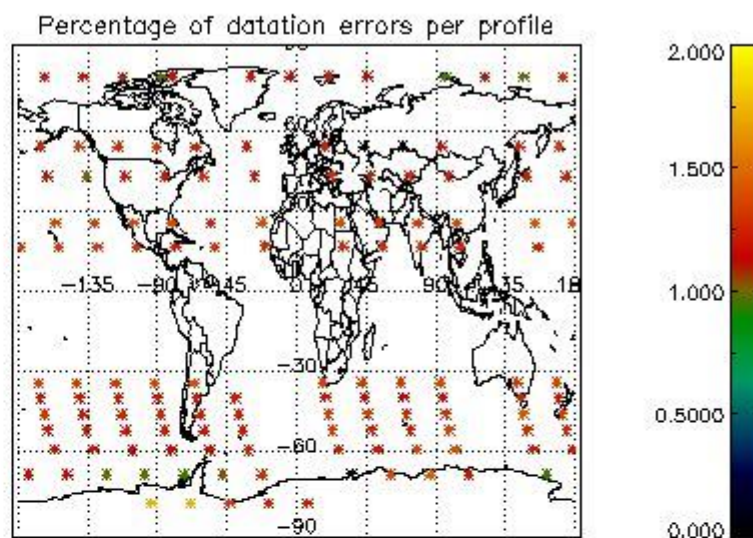
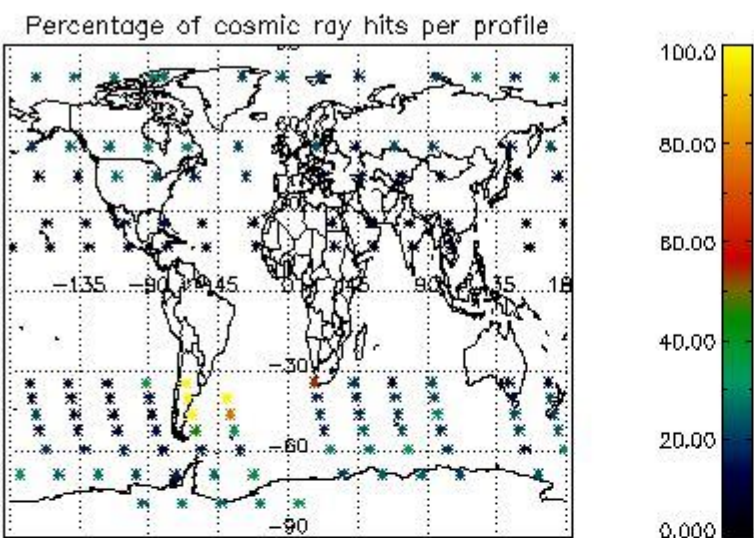


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

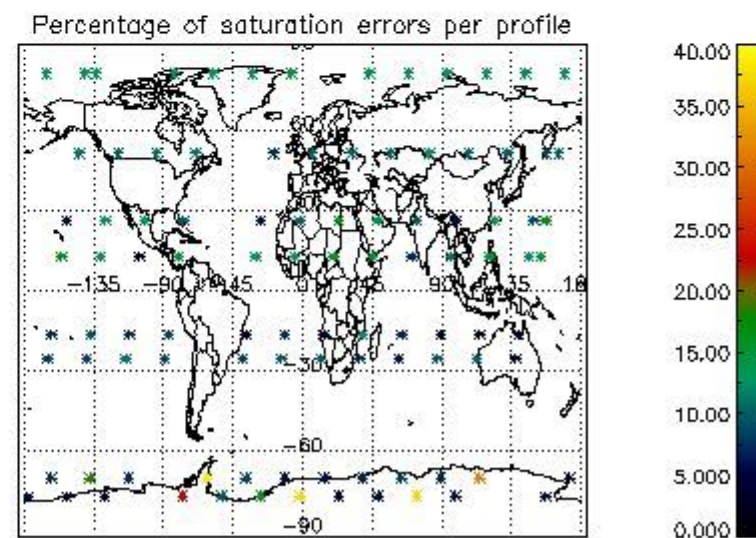
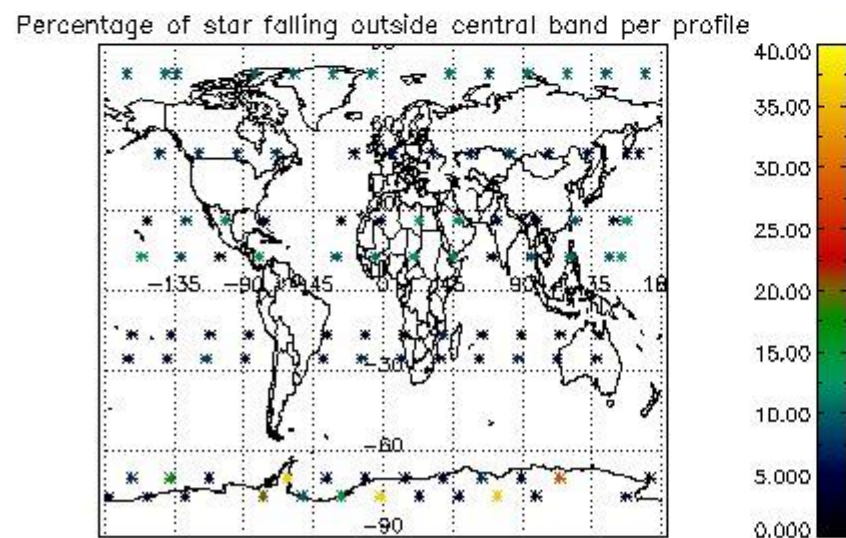
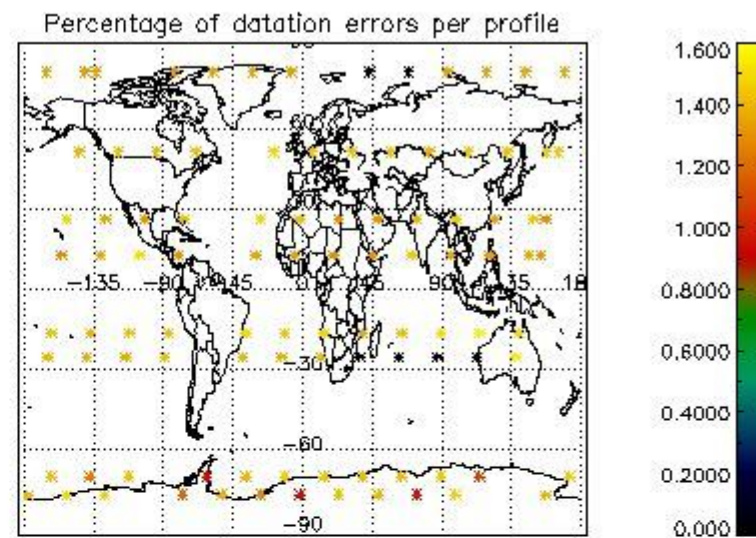
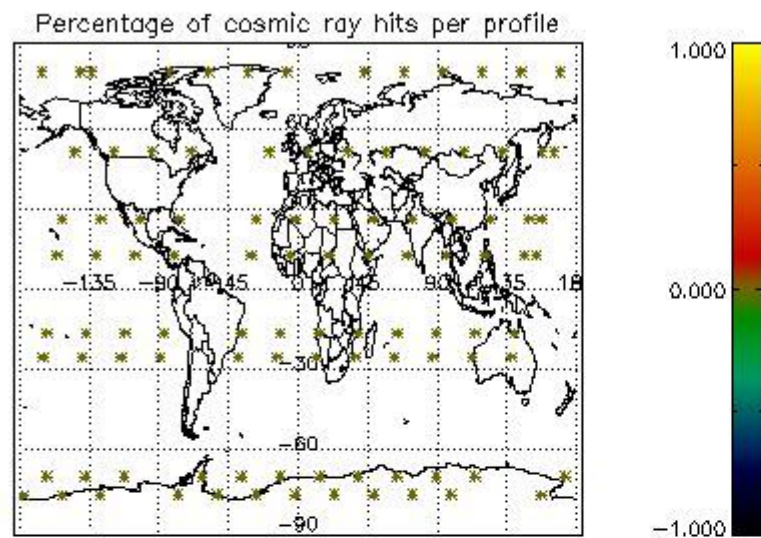


4.2 Plot quality information per product coming from level 1b processing (world map)

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

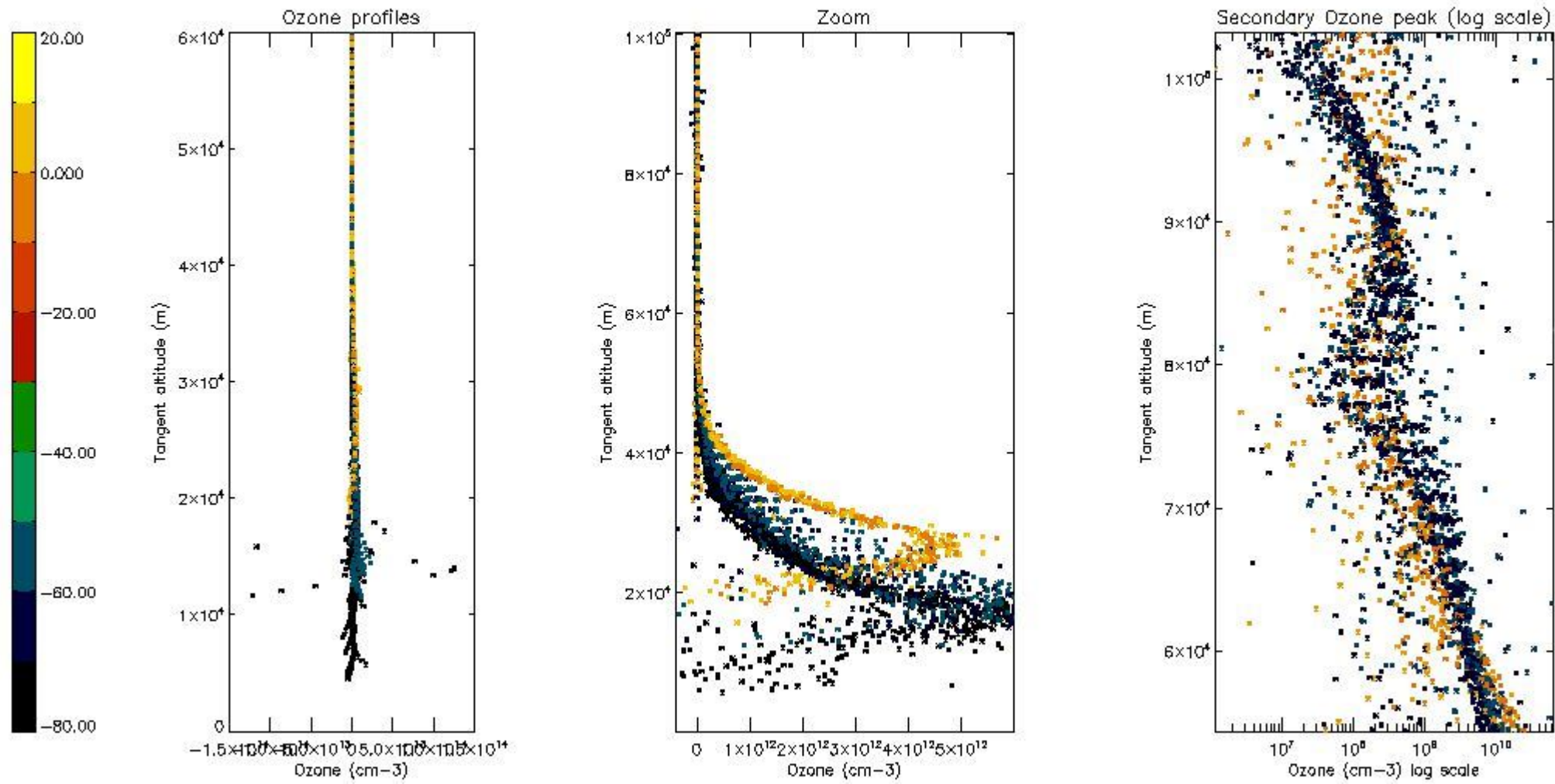
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	43
STD < 20	21

STD < 10	16
STD < 5	10

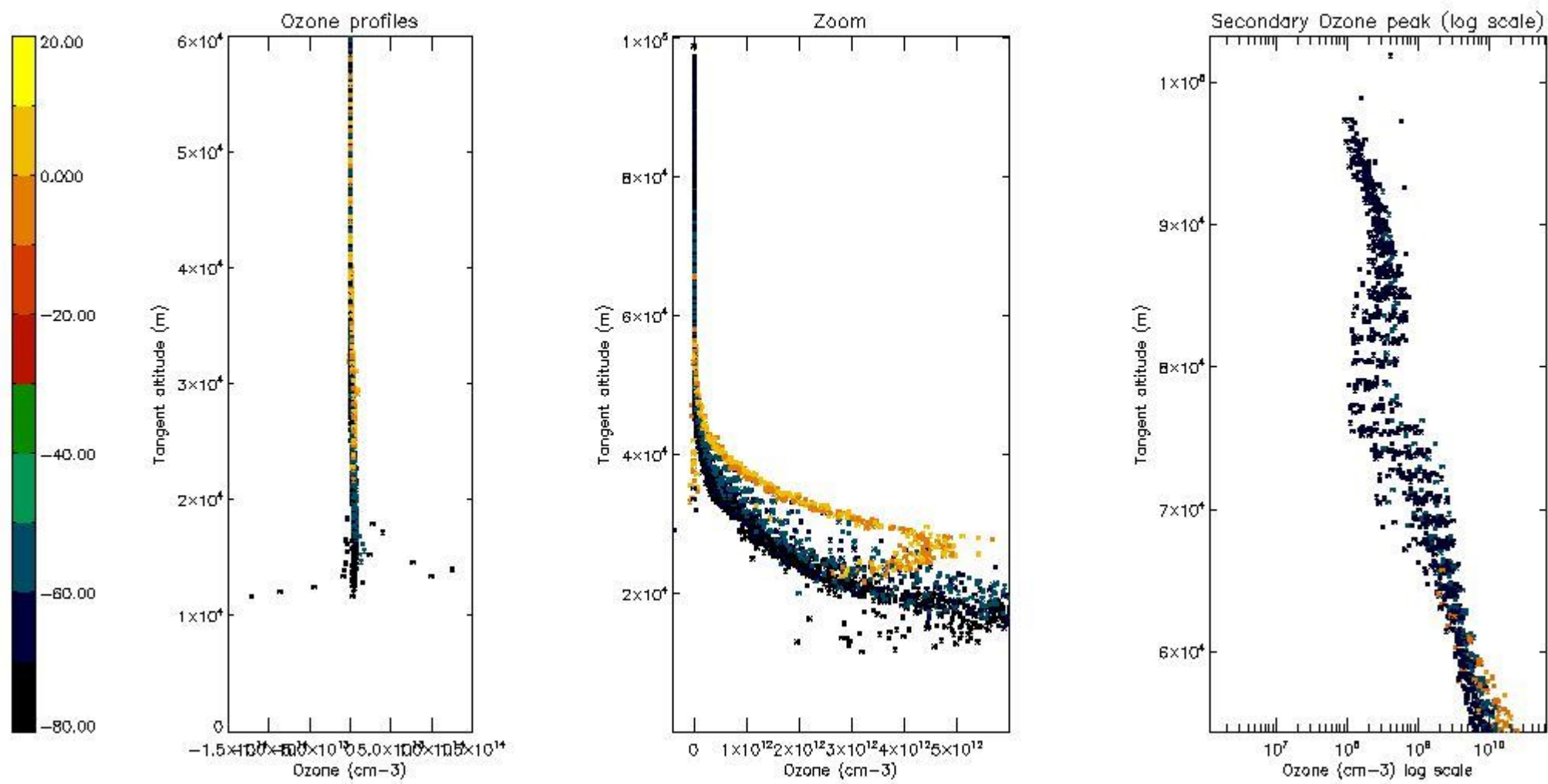
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



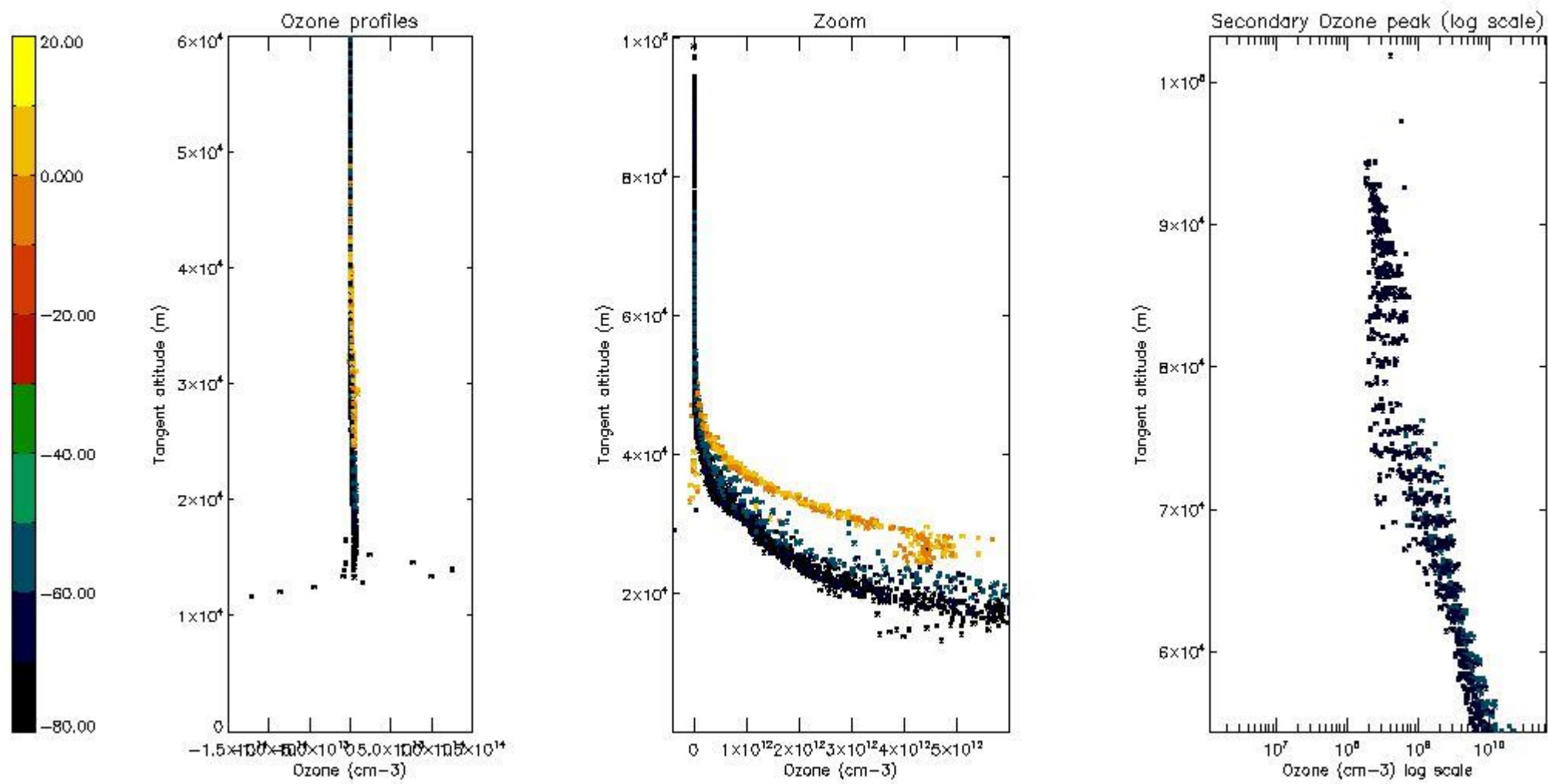
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



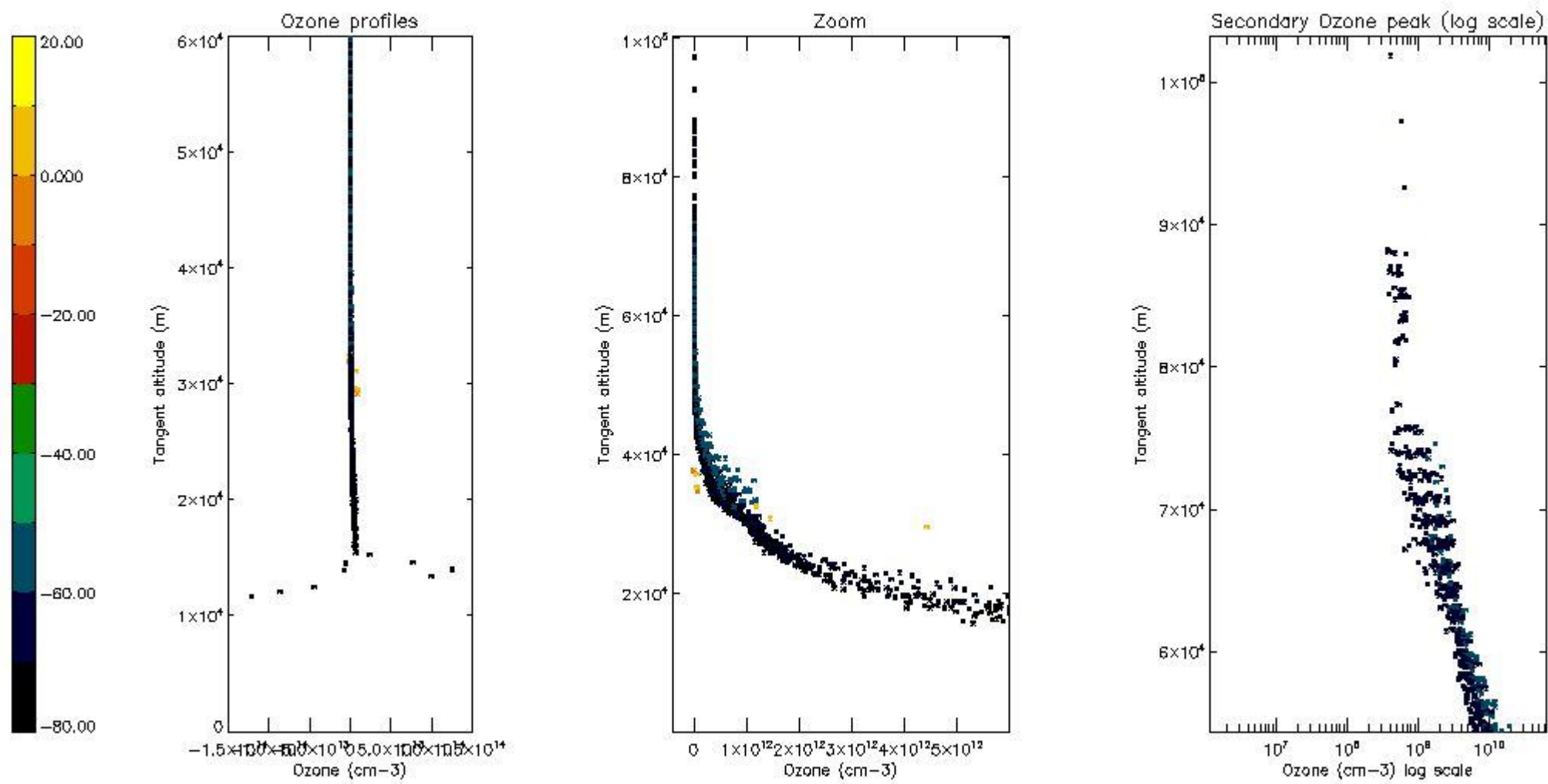
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



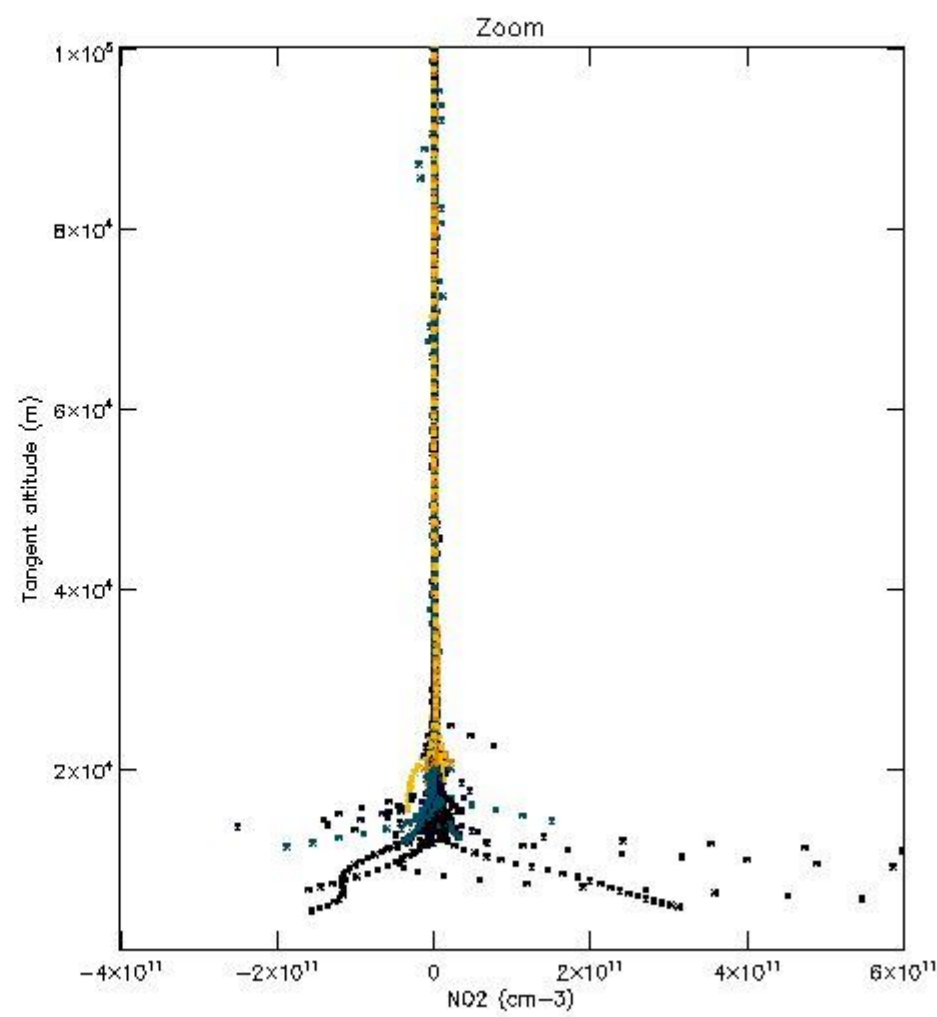
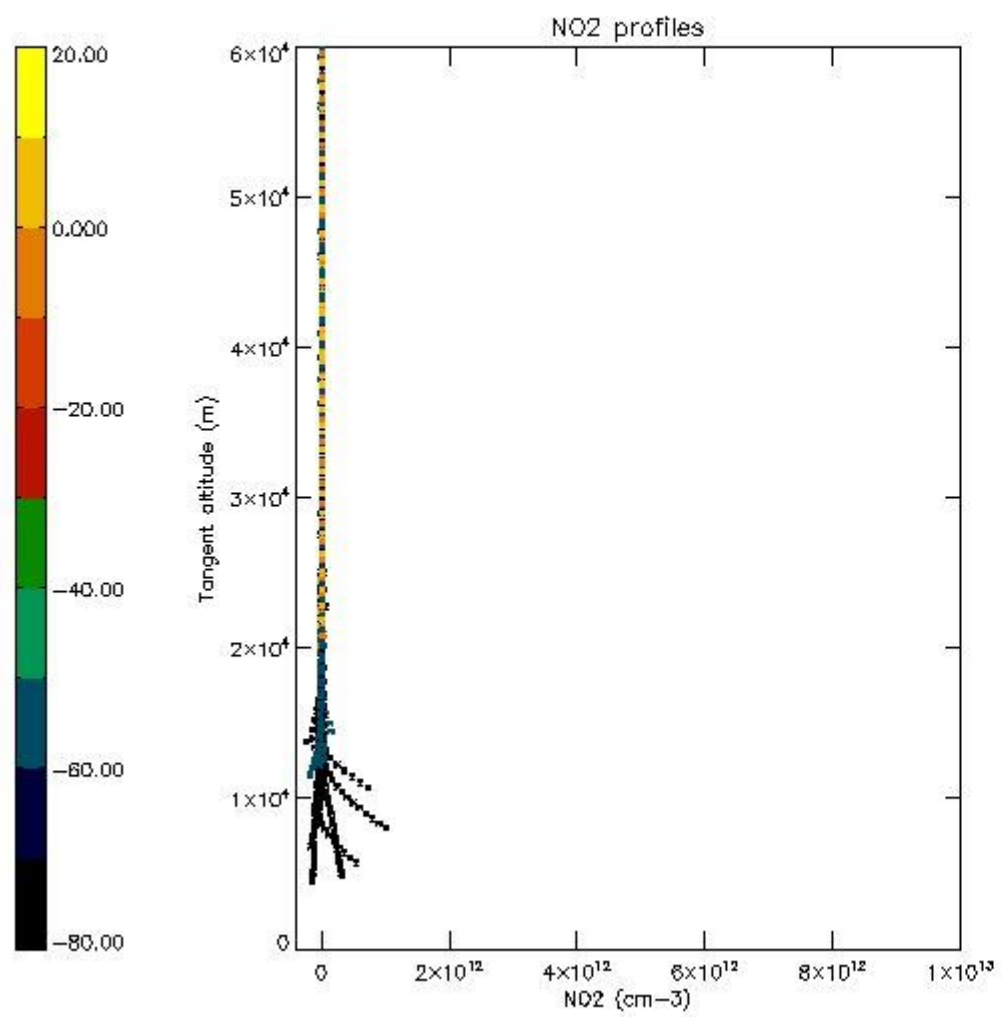
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



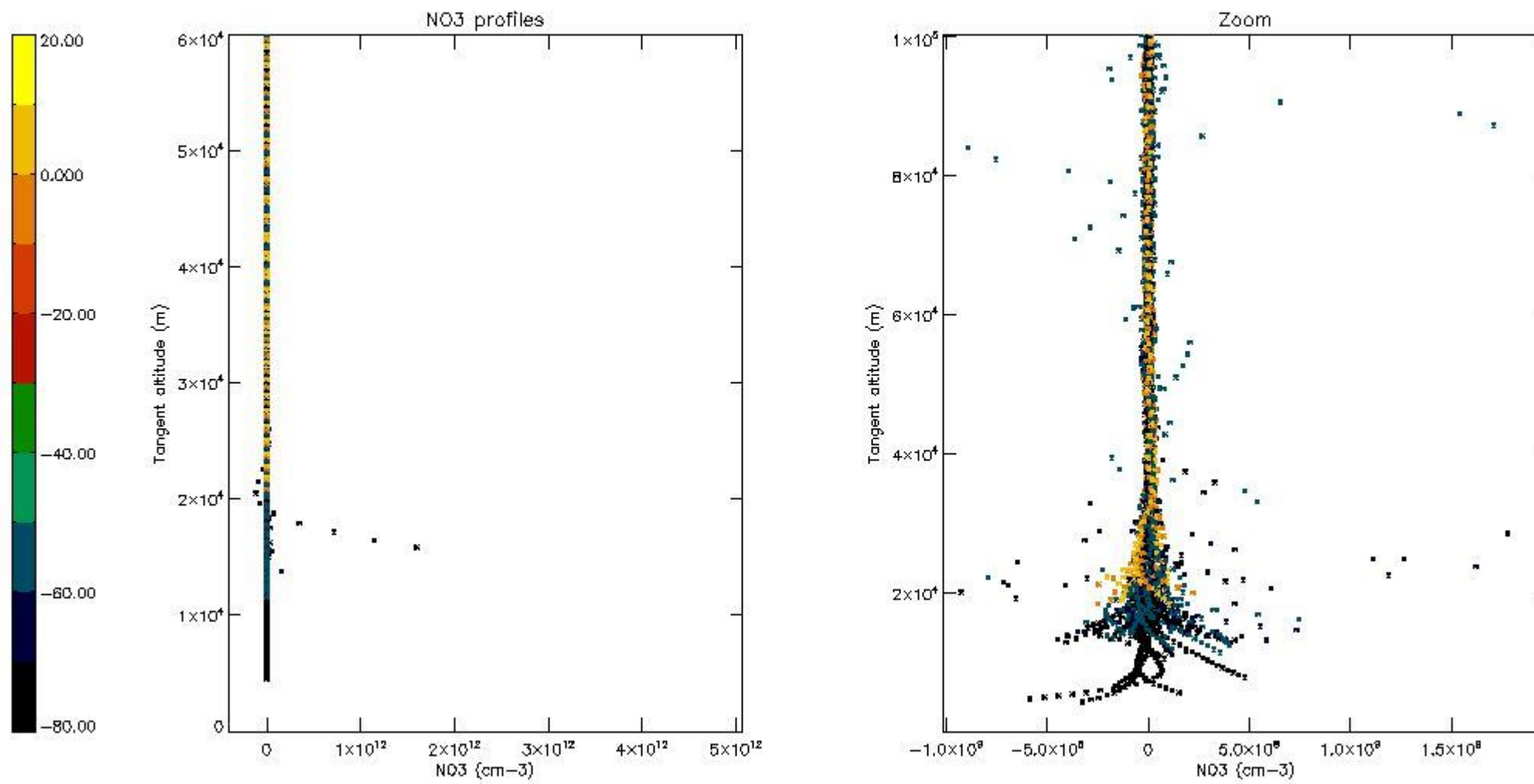
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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	02-AUG-2007 00:00:55
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-AUG-2007 00:00:55
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-AUG-2007 00:00:55

GOMOS Level 2 Daily Report

SUMMARY

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[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](#)

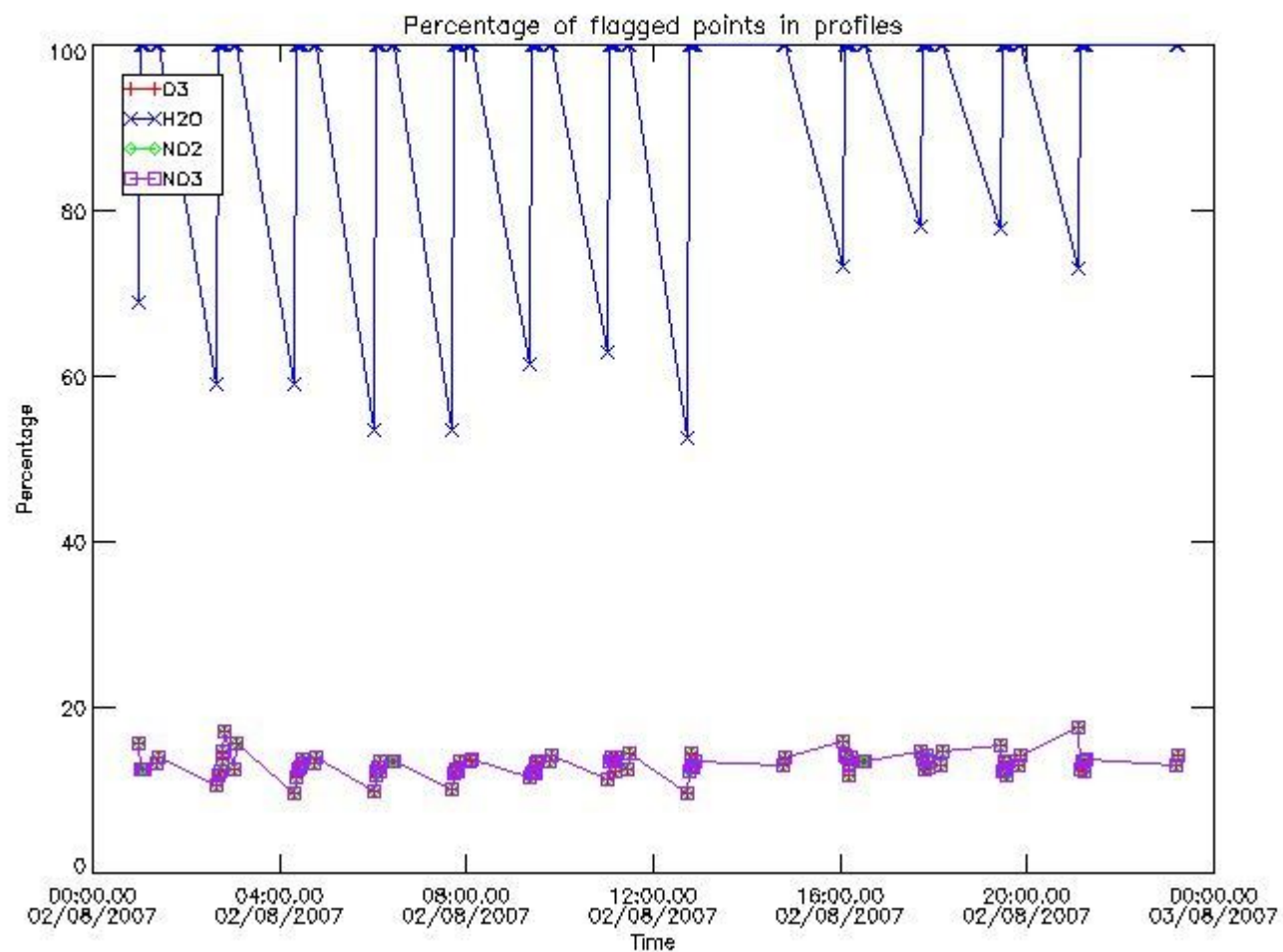
[6. Auxiliary Data Files used for the production reported in section 2](#)

220	GOM_NL__2PRFIN20070802_204153_000000362060_00243_28353_4807.N1	02-AUG-2007 20:41:53	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	28353	No
221	GOM_NL__2PRFIN20070802_205446_000000352060_00243_28353_4808.N1	02-AUG-2007 20:54:46	Bright	34.500	42	34Bet Aur	1.9000	10200.	69	28353	No
222	GOM_NL__2PRFIN20070802_205701_000000362060_00243_28353_4809.N1	02-AUG-2007 20:57:01	Bright	35.500	107	37The Aur	2.6490	11000.	71	28353	No
223	GOM_NL__2PRFIN20070802_210537_000000372060_00243_28353_4810.N1	02-AUG-2007 21:05:37	Dark	37.000	14	58Alp Ori	0.87000	3000.0	74	28353	No
224	GOM_NL__2PRFIN20070802_210823_000000412060_00243_28353_4811.N1	02-AUG-2007 21:08:23	Dark	41.000	30	46Eps Ori	1.6940	30000.	82	28353	No
225	GOM_NL__2PRFIN20070802_211030_000000382060_00243_28353_4812.N1	02-AUG-2007 21:10:30	Dark	38.000	56	53Kap Ori	2.0650	30000.	76	28353	No
226	GOM_NL__2PRFIN20070802_211211_000000382060_00243_28353_4813.N1	02-AUG-2007 21:12:11	Dark	37.500	47	2Bet CMa	1.9760	28000.	75	28353	No
227	GOM_NL__2PRFIN20070802_211357_000000422060_00243_28353_4814.N1	02-AUG-2007 21:13:57	Dark	41.500	139	9Bet Lep	2.8330	5600.0	83	28353	No
228	GOM_NL__2PRFIN20070802_211532_000000372060_00243_28353_4815.N1	02-AUG-2007 21:15:32	Dark	37.000	177	1Zet CMa	3.0220	26000.	74	28353	No
229	GOM_NL__2PRFIN20070802_231026_000000392060_00245_28355_4735.N1	02-AUG-2007 23:10:26	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	28355	No
230	GOM_NL__2PRFIN20070802_231255_000000362060_00245_28355_4736.N1	02-AUG-2007 23:12:55	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	28355	No
231	GOM_NL__2PRFIN20070802_231751_000000422060_00245_28355_4737.N1	02-AUG-2007 23:17:51	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	28355	No
232	GOM_NL__2PRFIN20070802_232100_000000412060_00245_28355_4738.N1	02-AUG-2007 23:21:00	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	28355	No
233	GOM_NL__2PRFIN20070802_232921_000000432060_00245_28355_4739.N1	02-AUG-2007 23:29:21	Bright	42.500	103	38Zet Sgr	2.6000	9700.0	85	28355	No
234	GOM_NL__2PRFIN20070802_233143_000000372060_00245_28355_4740.N1	02-AUG-2007 23:31:43	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	28355	No
235	GOM_NL__2PRFIN20070802_234130_000000352060_00245_28355_4741.N1	02-AUG-2007 23:41:30	Bright	34.500	168	17Zet Aql	2.9860	11000.	69	28355	No
236	GOM_NL__2PRFIN20070802_234835_000000392060_00245_28355_4742.N1	02-AUG-2007 23:48:35	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	28355	No
237	GOM_NL__2PRFIN20070802_235225_000000382060_00245_28355_4743.N1	02-AUG-2007 23:52:25	Bright	38.000	69	33Gam Dra	2.2310	3800.0	76	28355	No

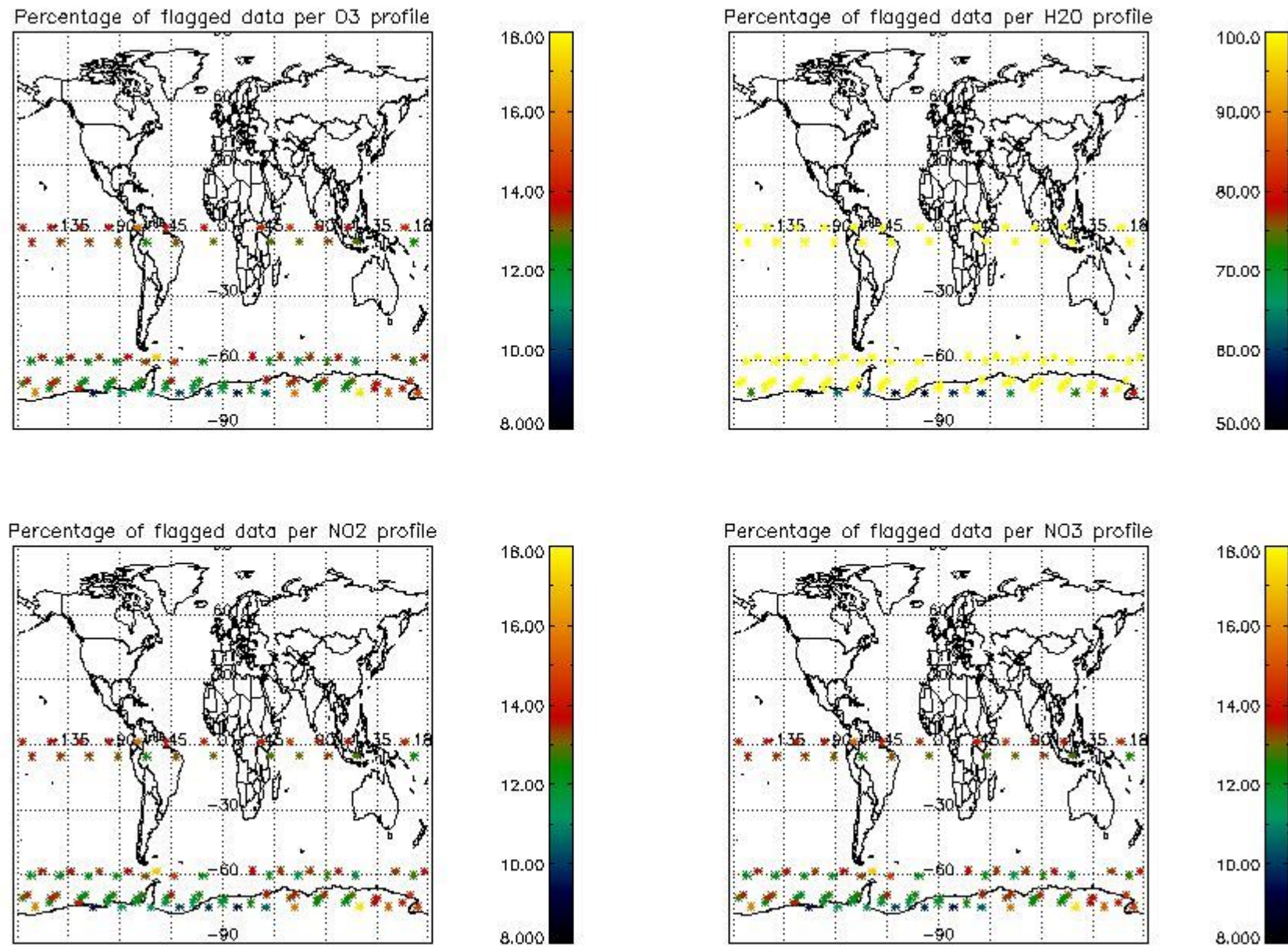
3. Quality information per product

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)

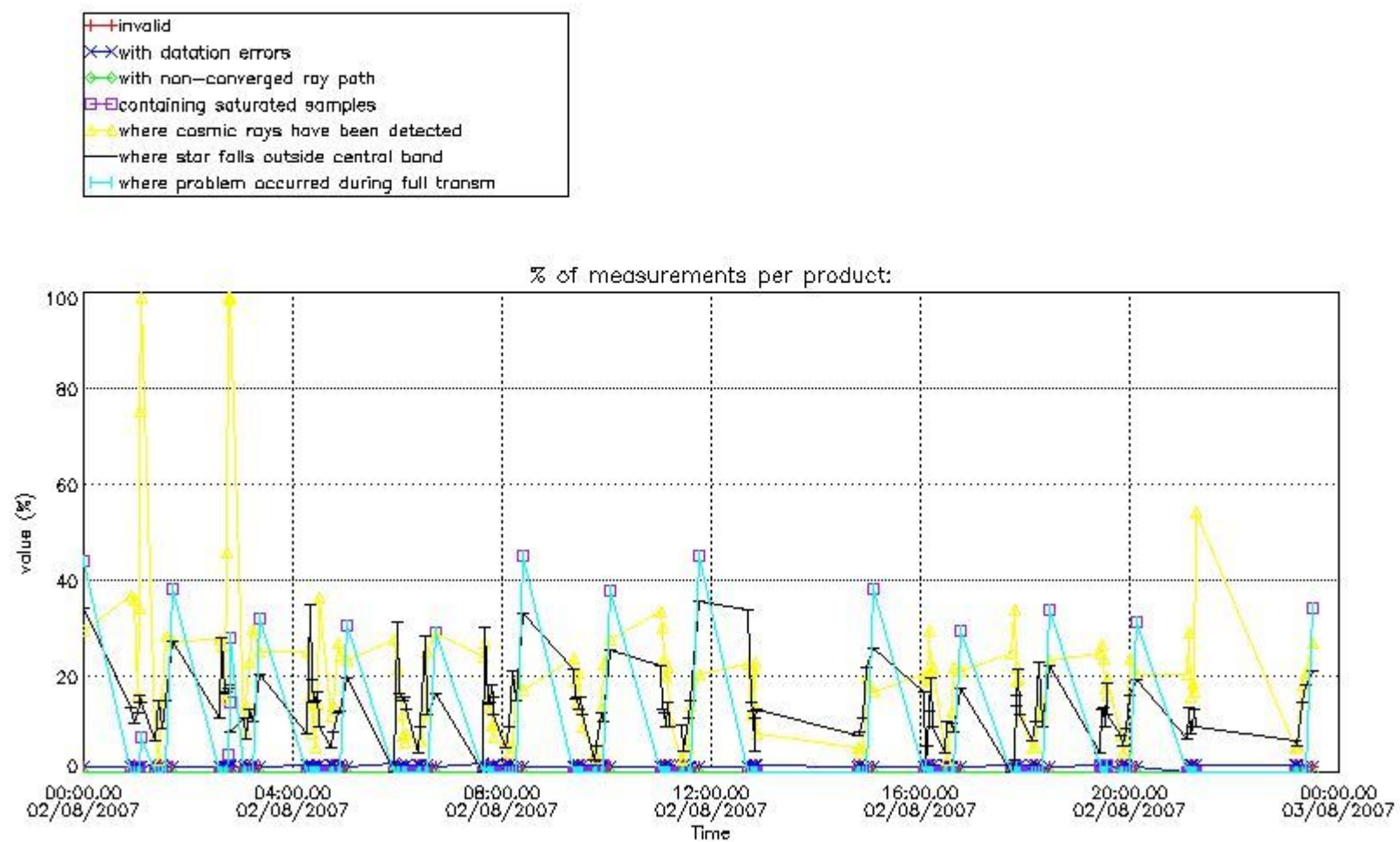


4. Level 1 quality information per product

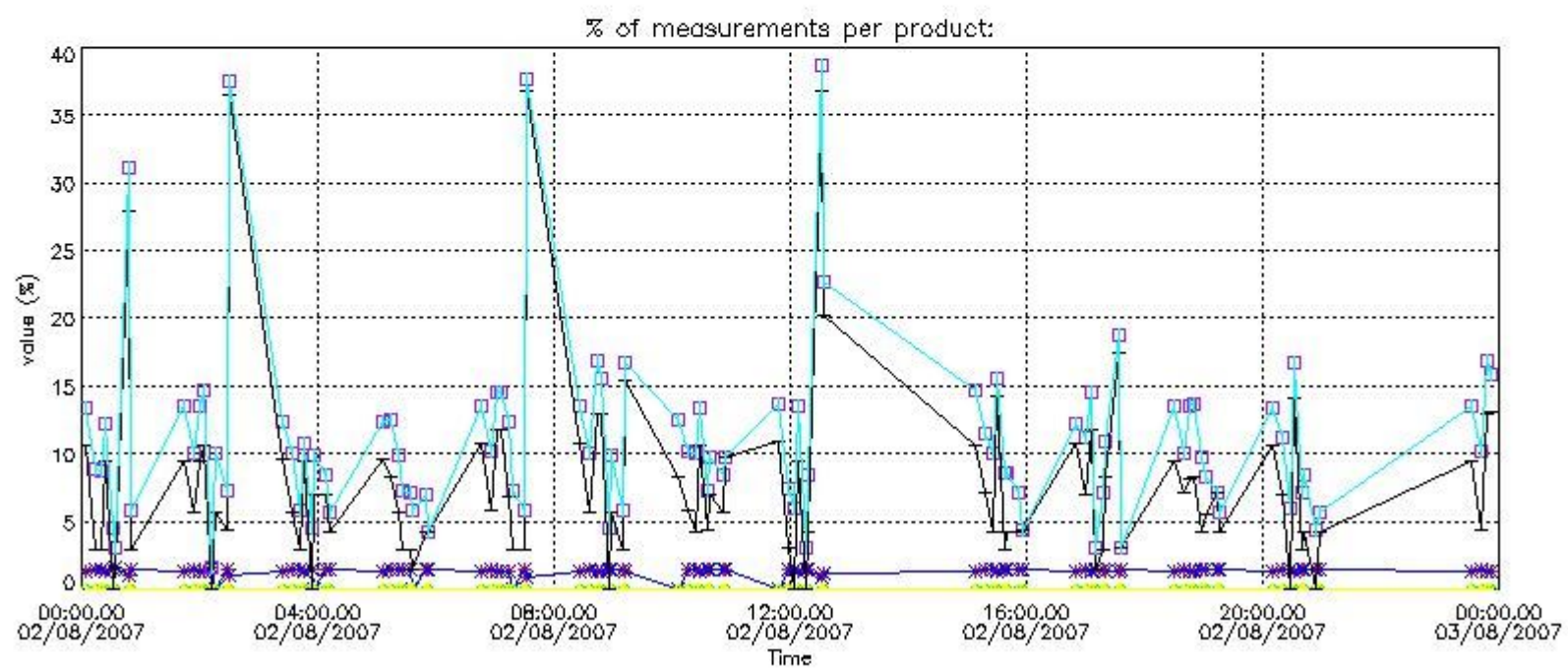
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

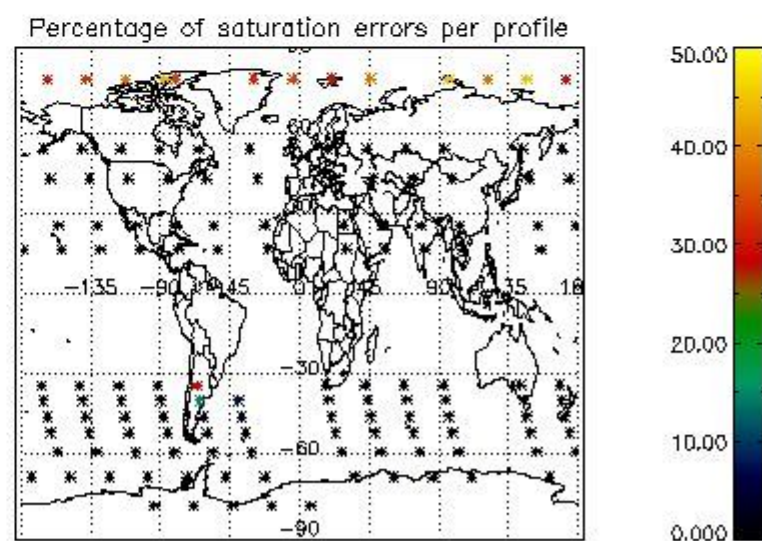
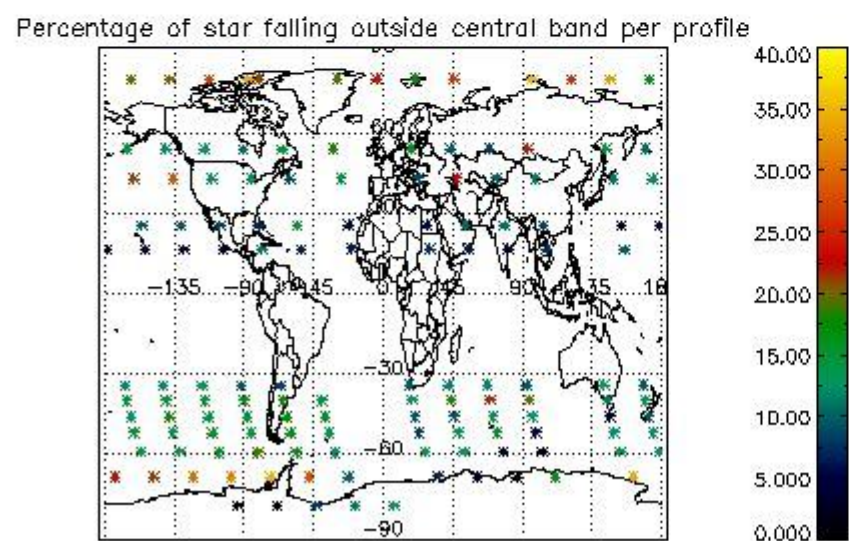
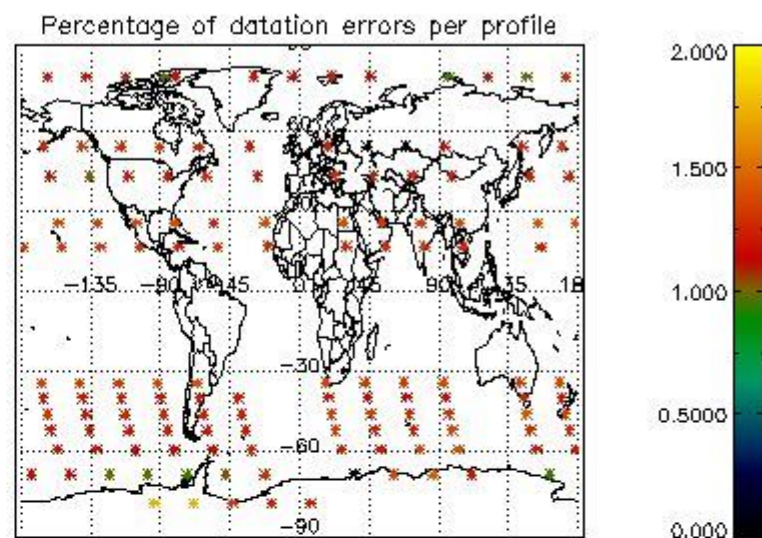
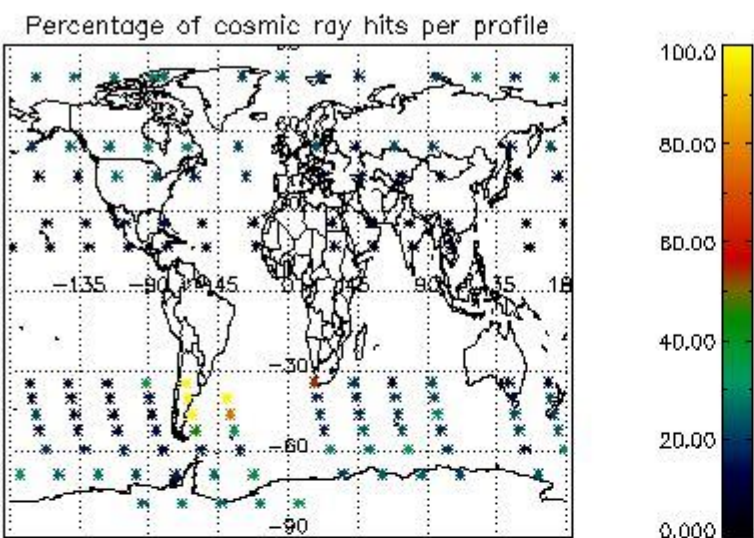


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

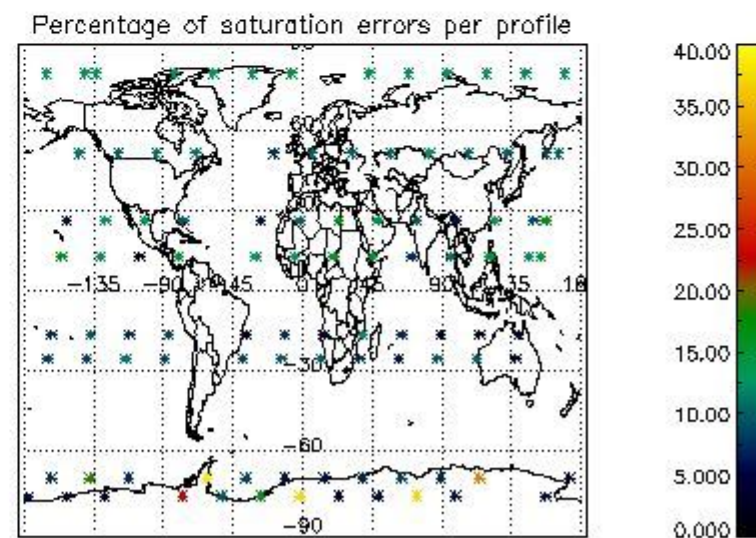
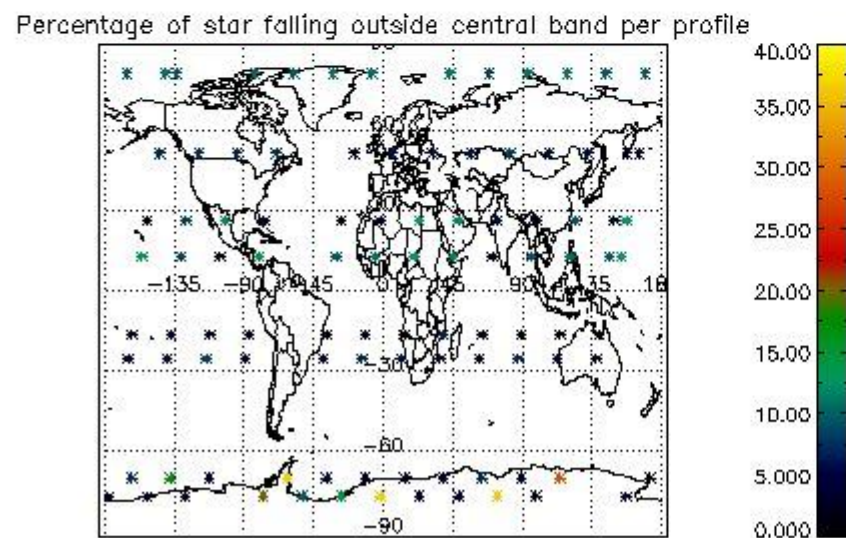
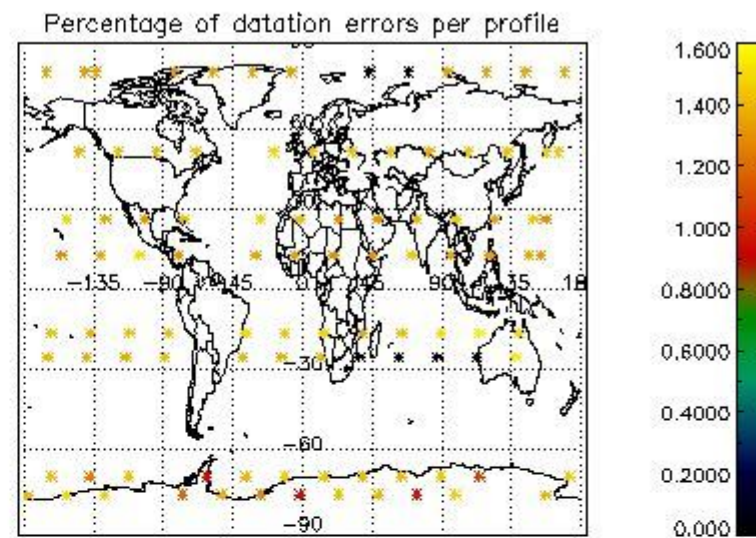
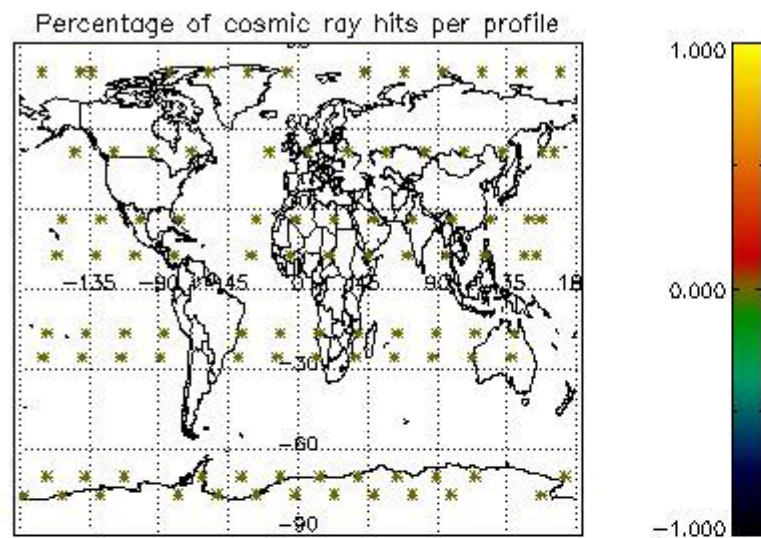


4.2 Plot quality information per product coming from level 1b processing (world map)

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

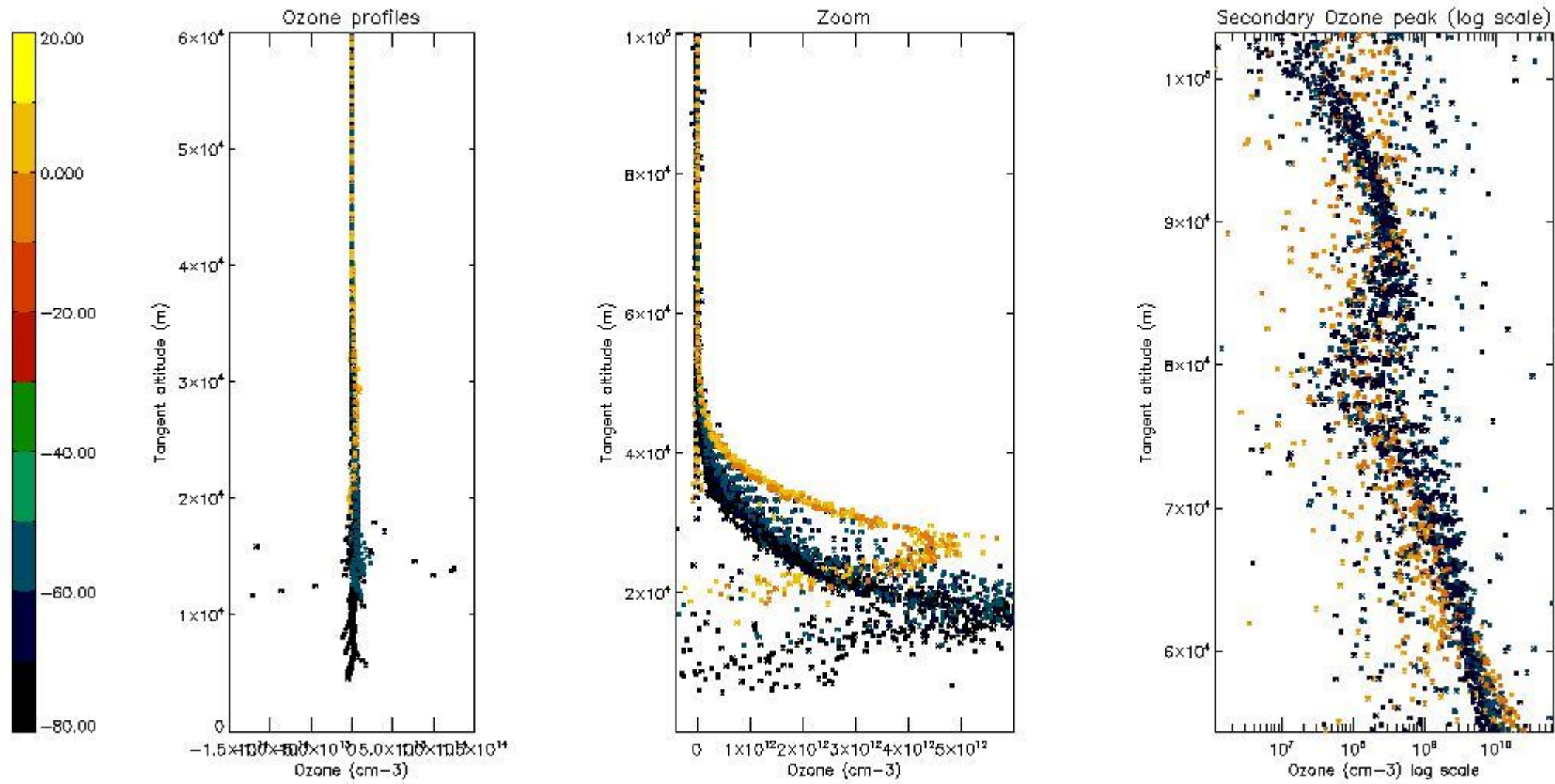
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	43
STD < 20	21

STD < 10	16
STD < 5	10

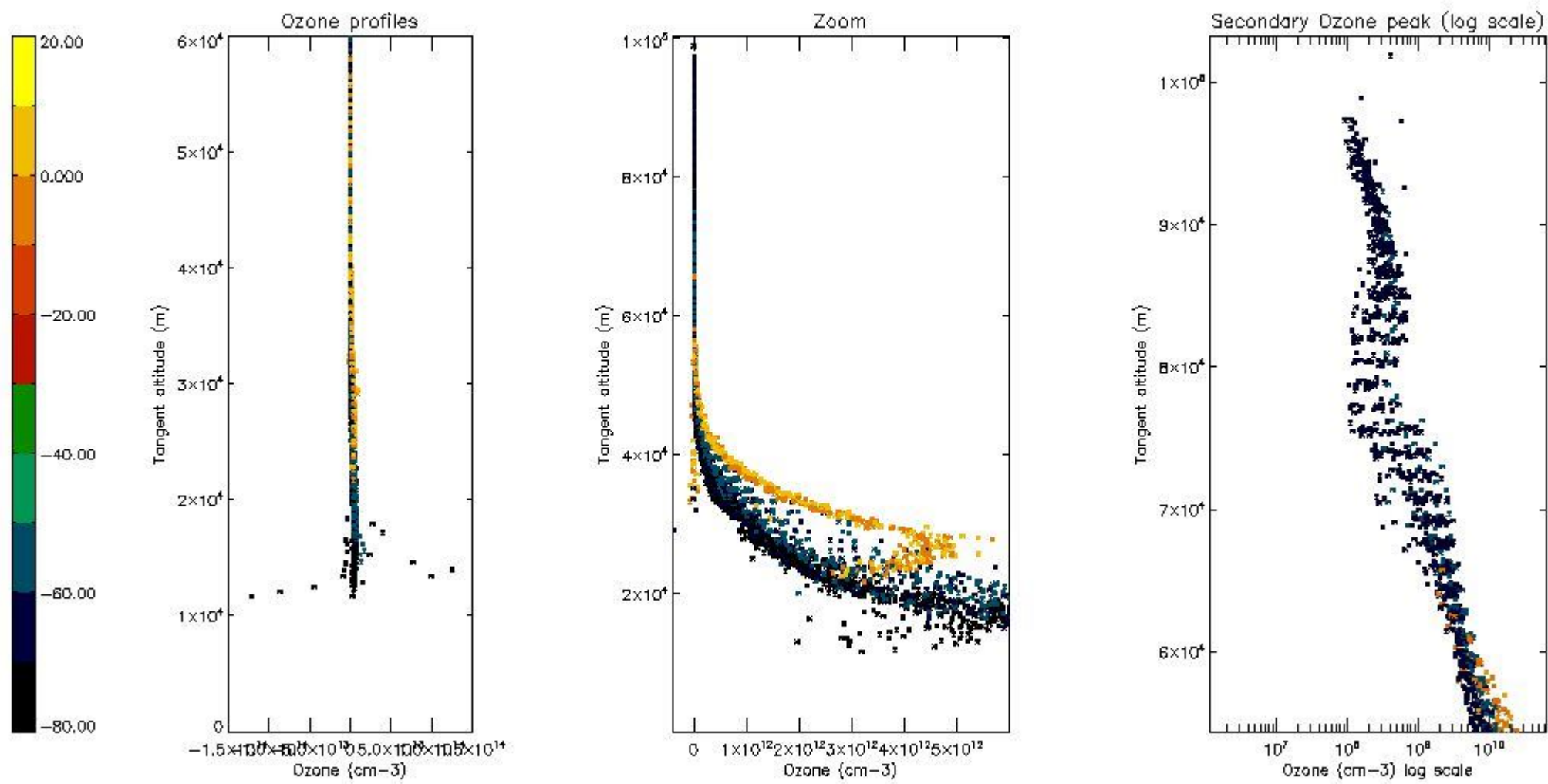
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



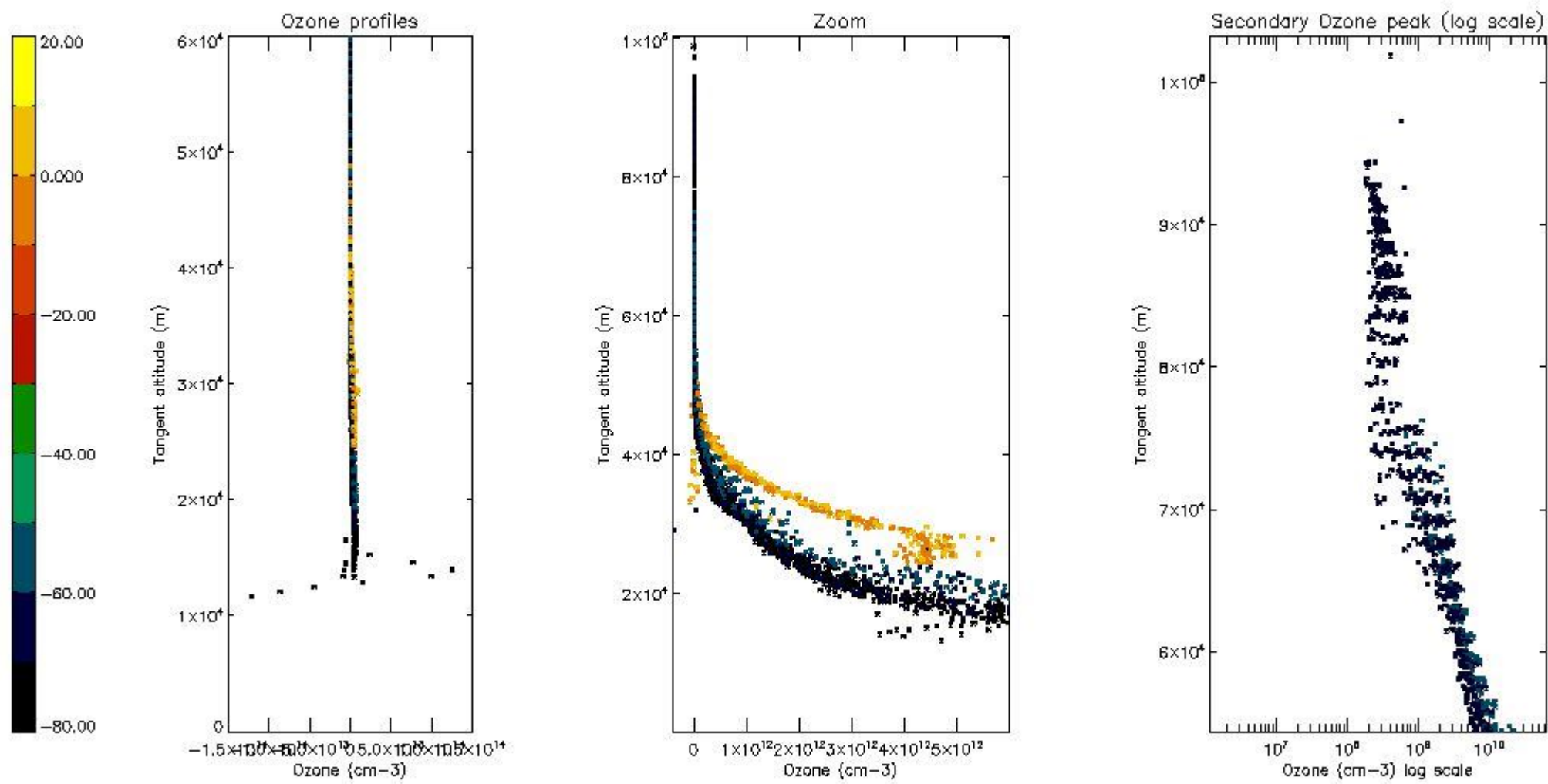
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



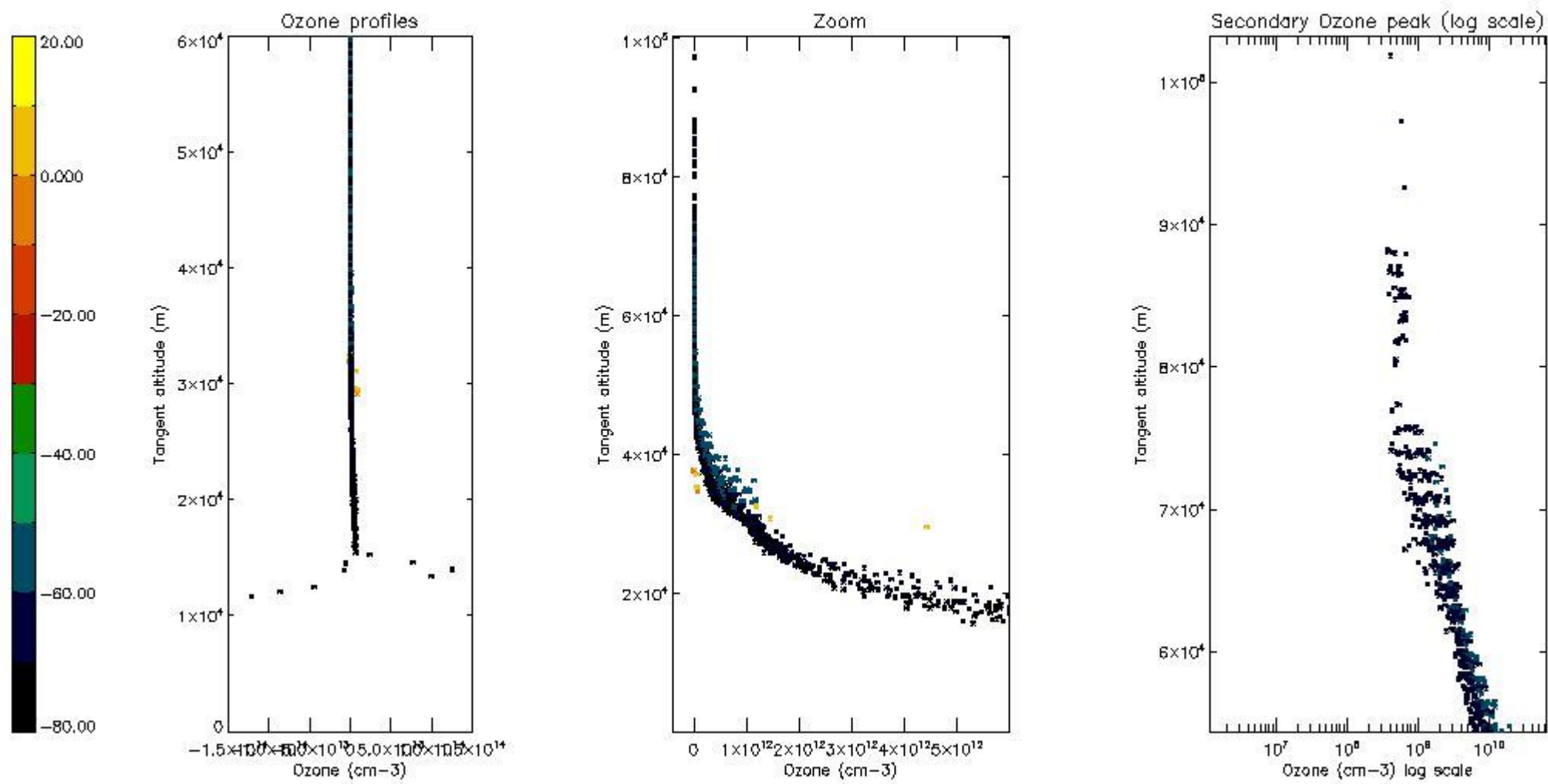
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



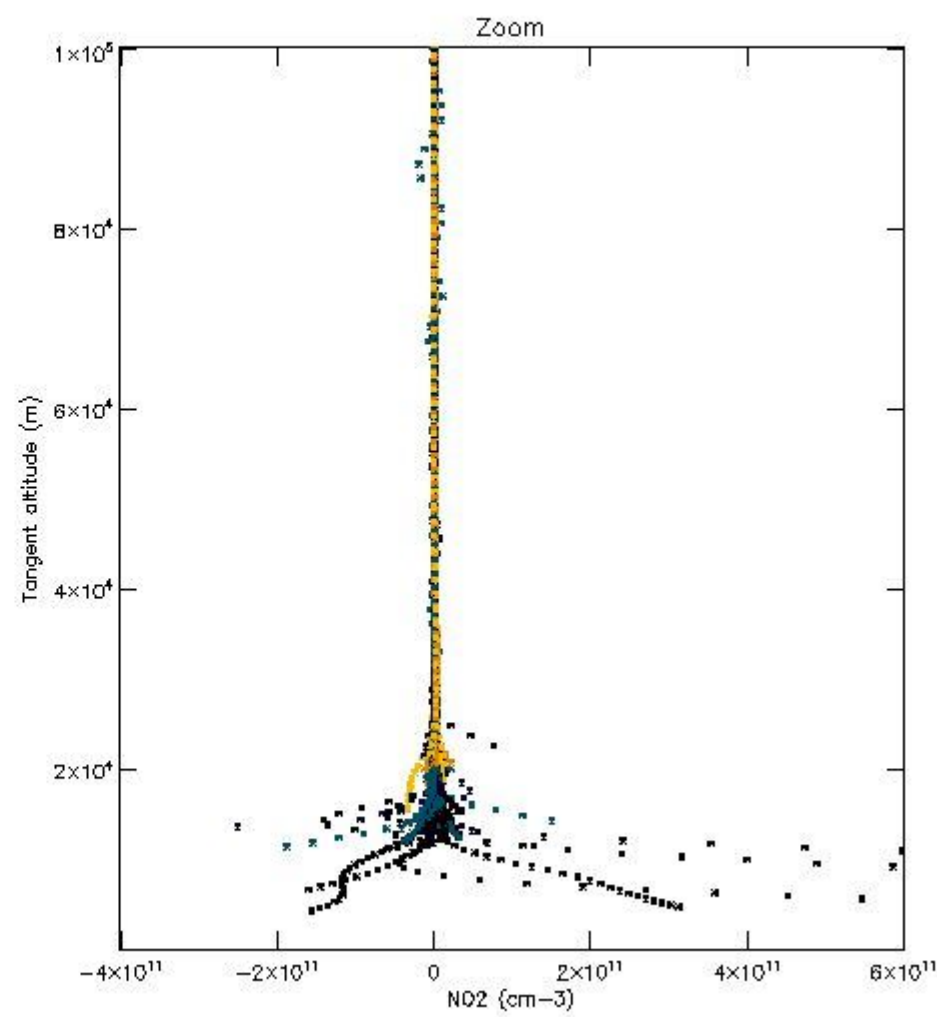
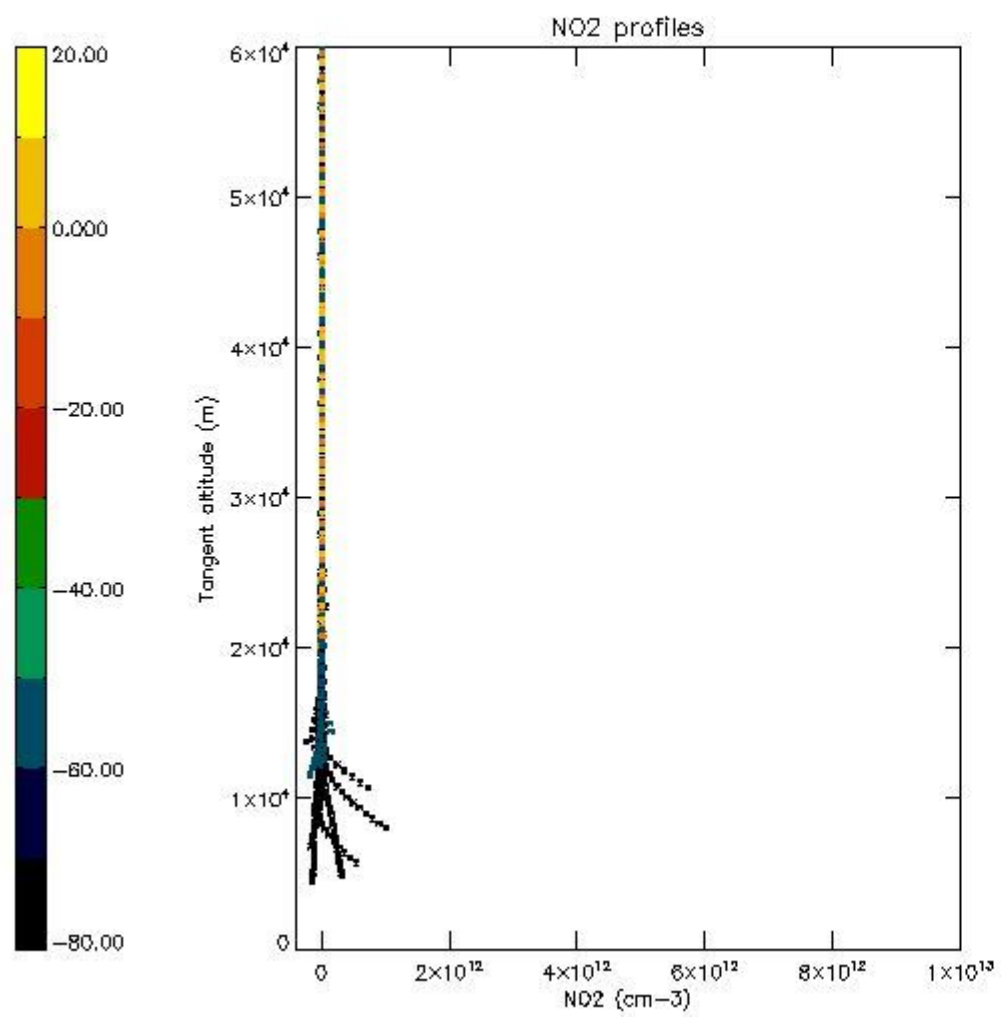
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



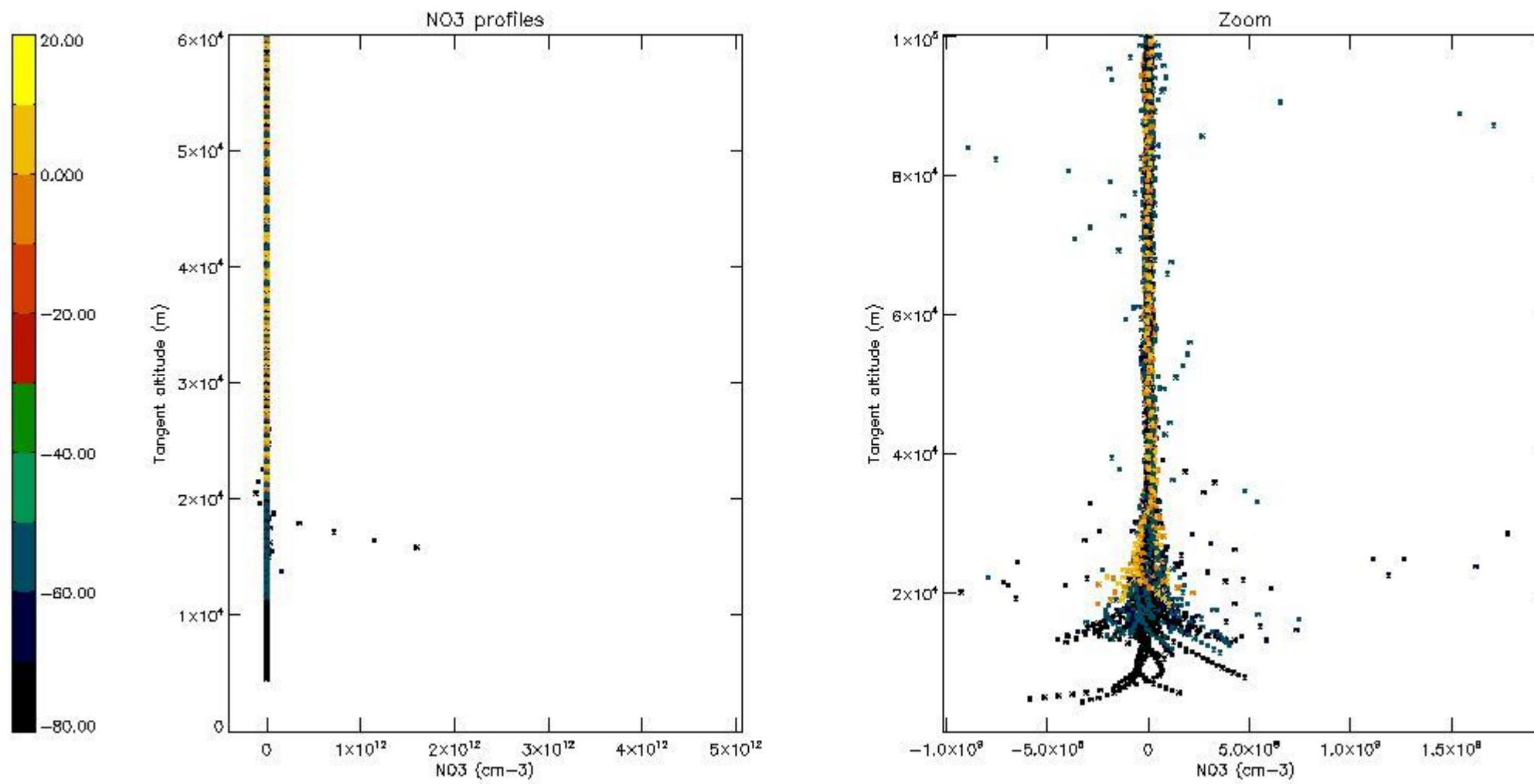
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

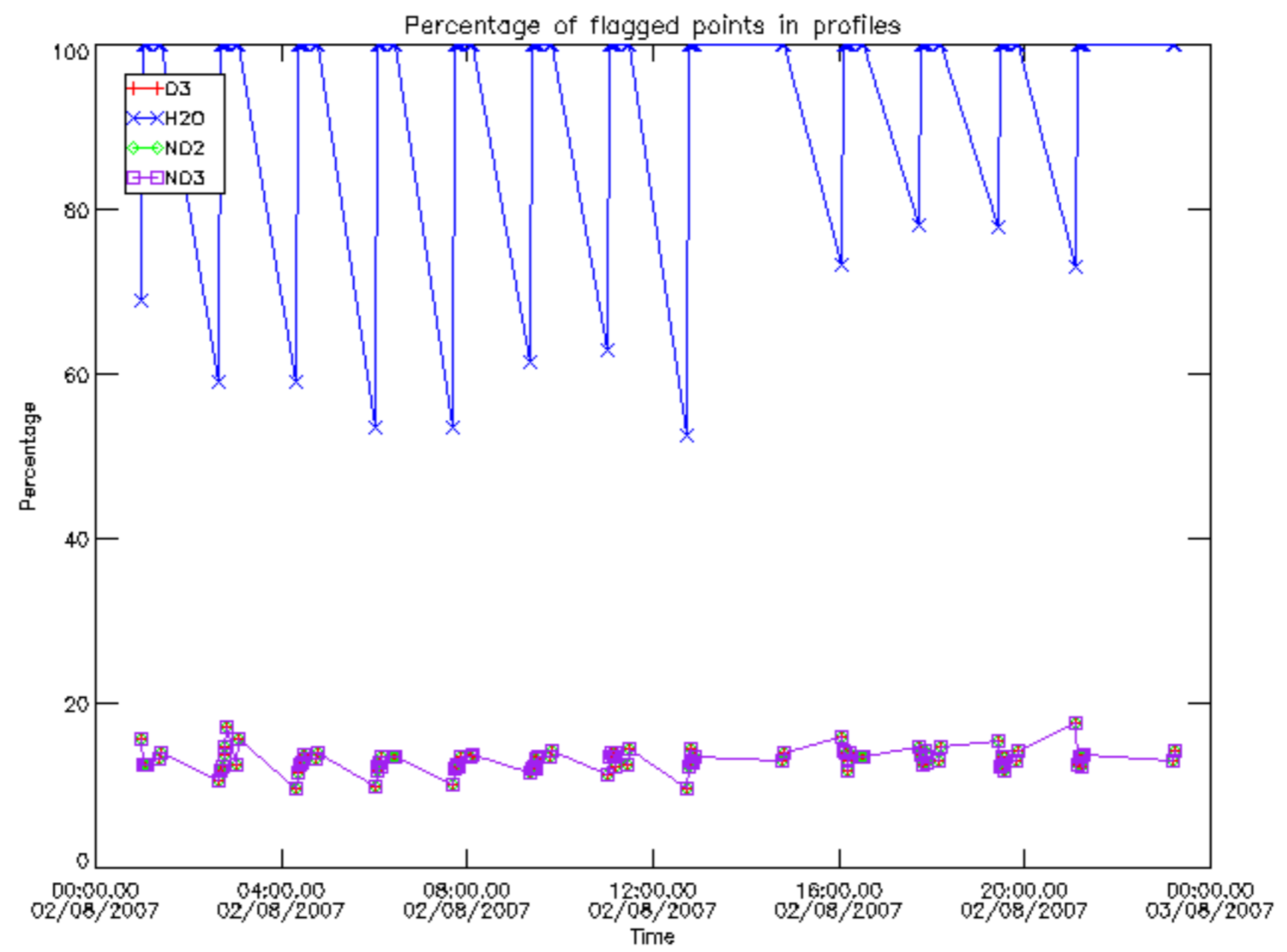
The colorbar represents the latitude.



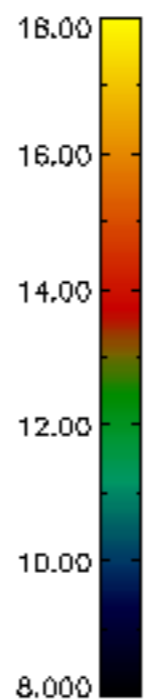
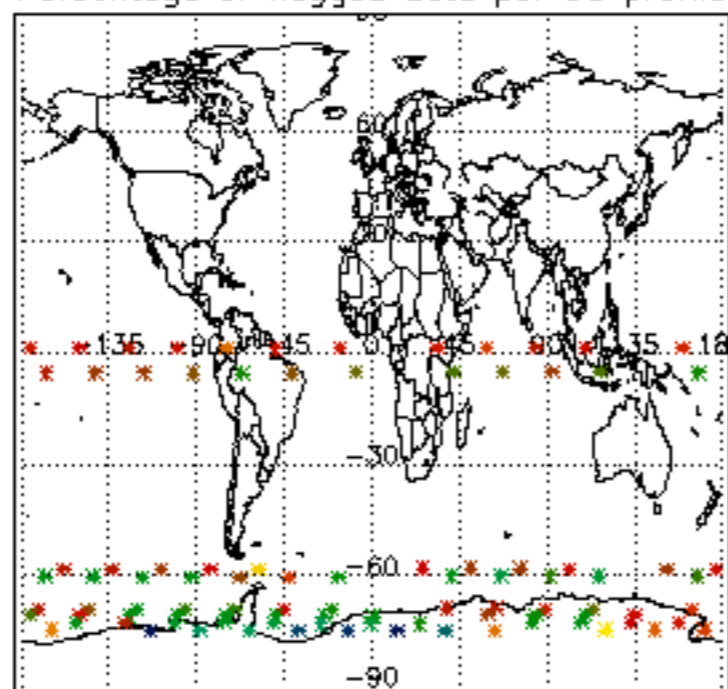
6. Auxiliary Data Files used for the production reported in section 2

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.

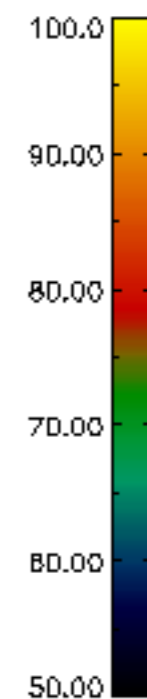
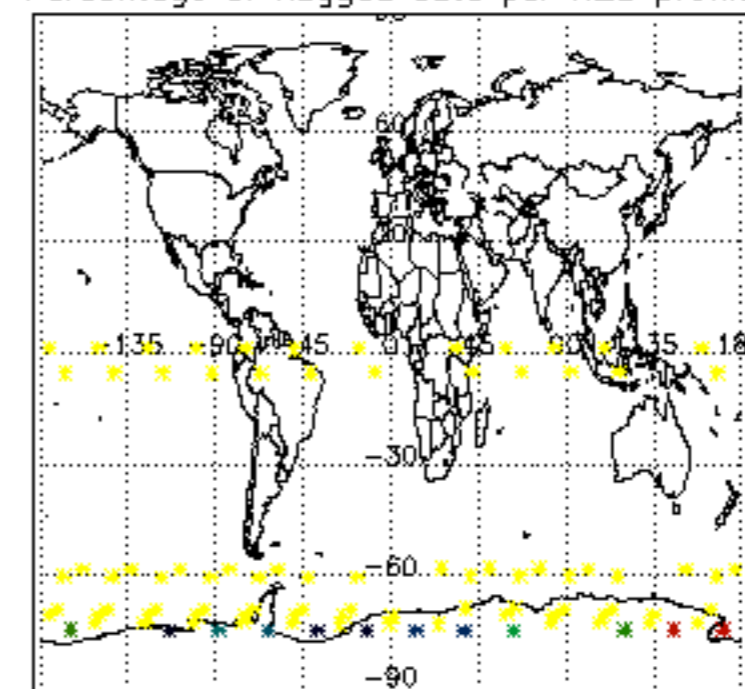
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	02-AUG-2007 00:00:55
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	02-AUG-2007 00:00:55
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	02-AUG-2007 00:00:55



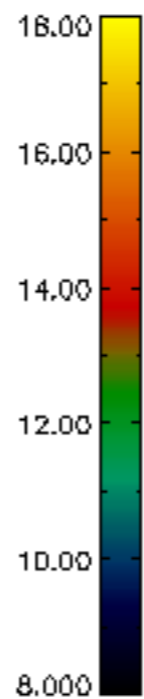
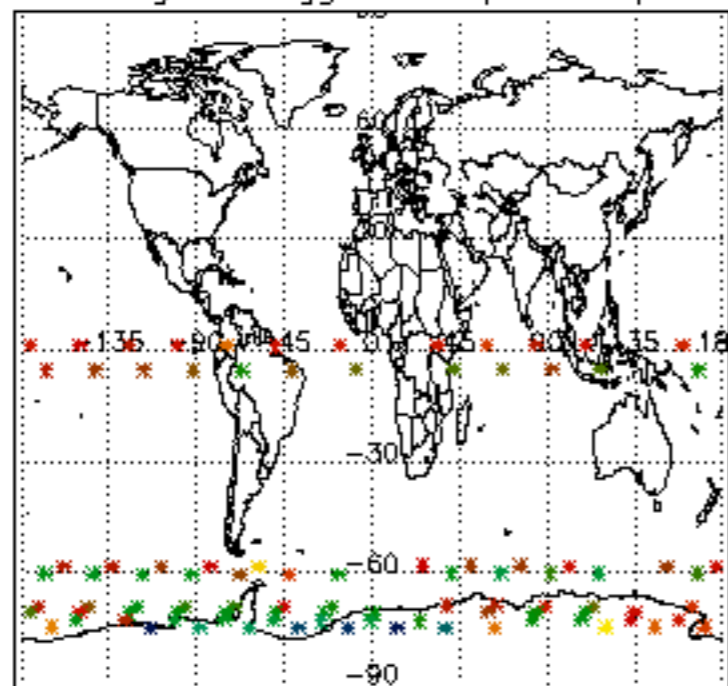
Percentage of flagged data per D3 profile



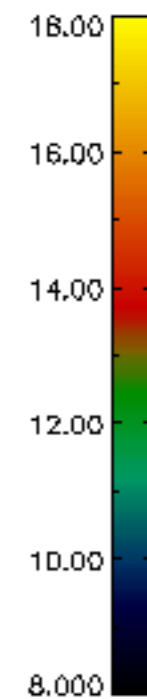
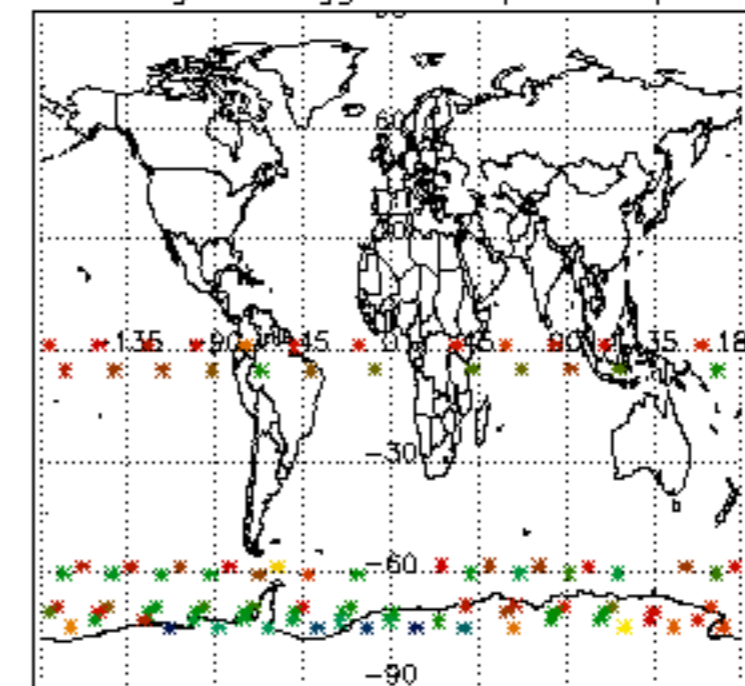
Percentage of flagged data per H2O profile

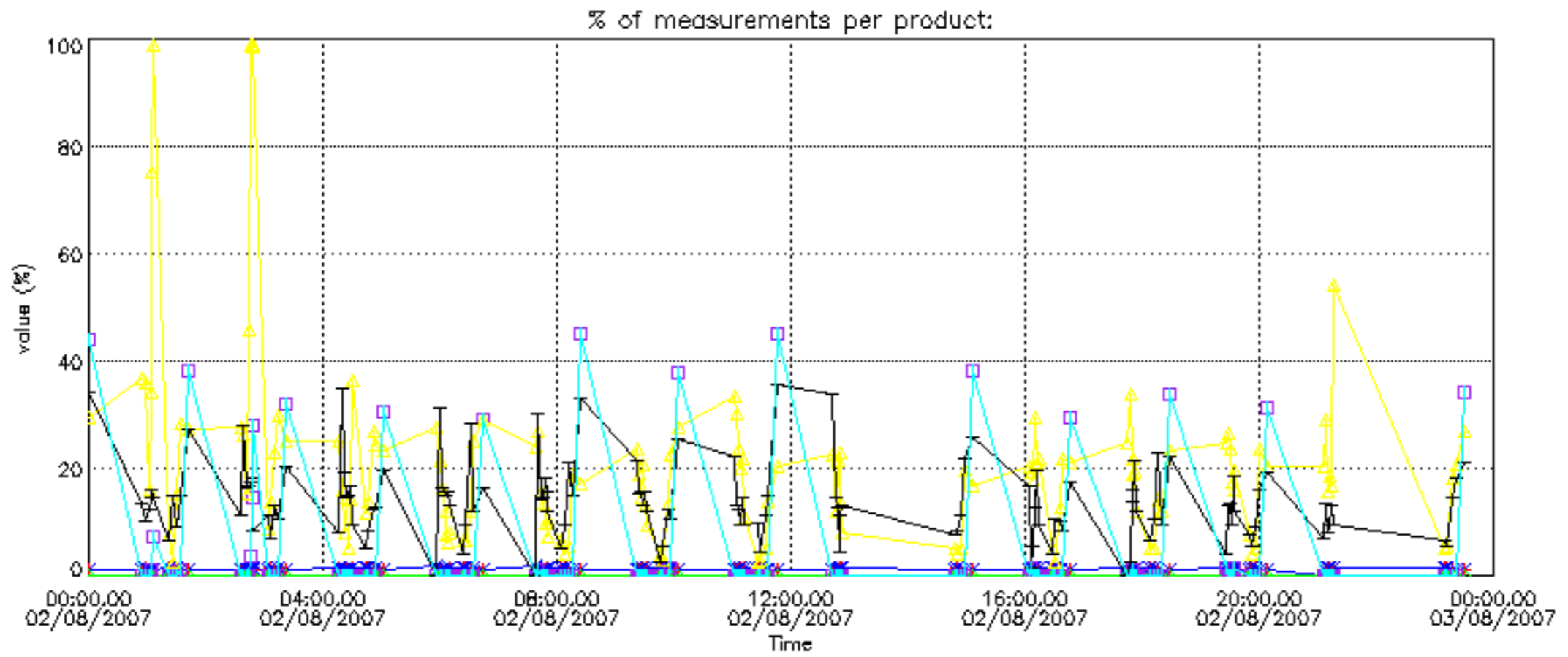


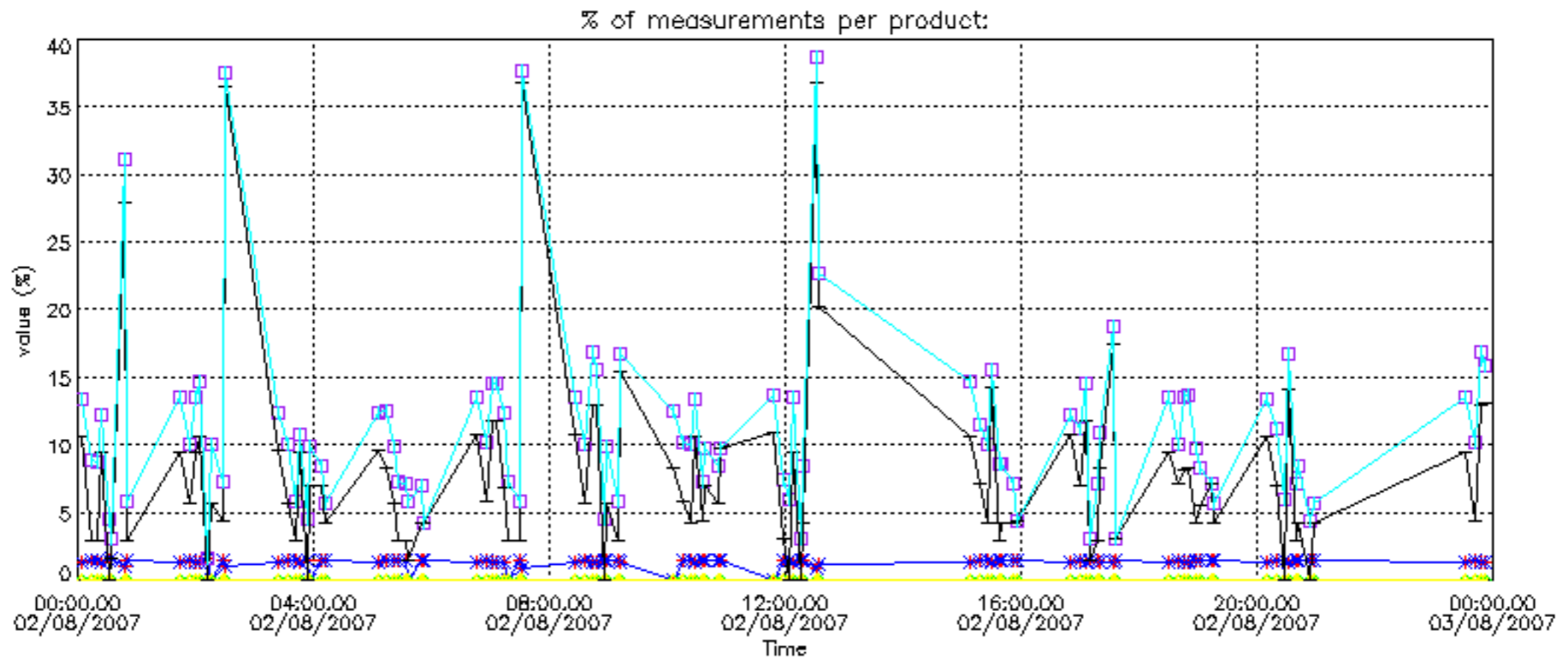
Percentage of flagged data per NO2 profile



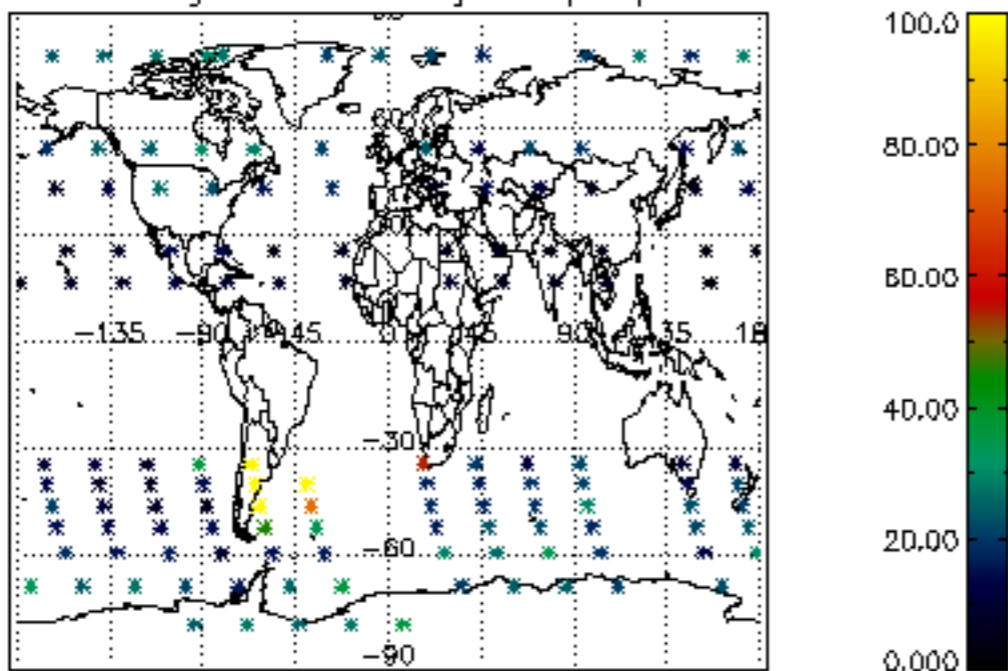
Percentage of flagged data per NO3 profile



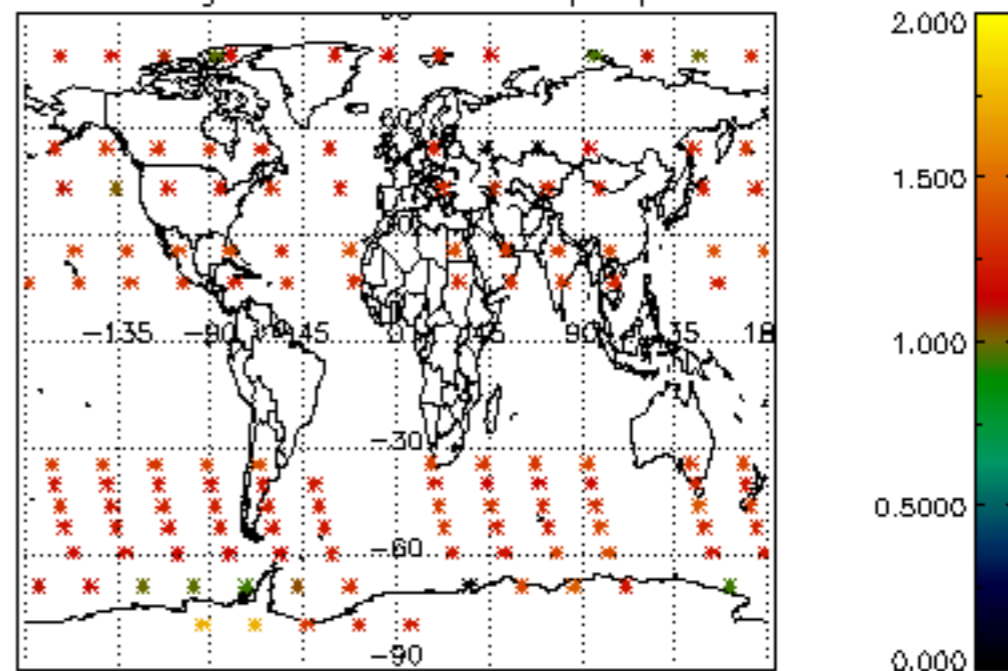




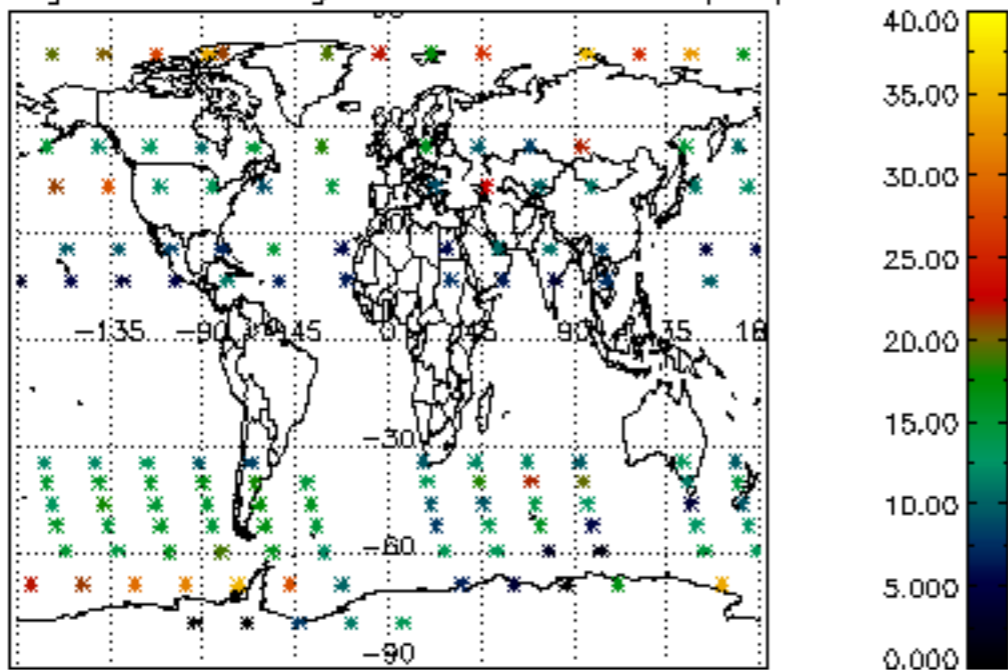
Percentage of cosmic ray hits per profile



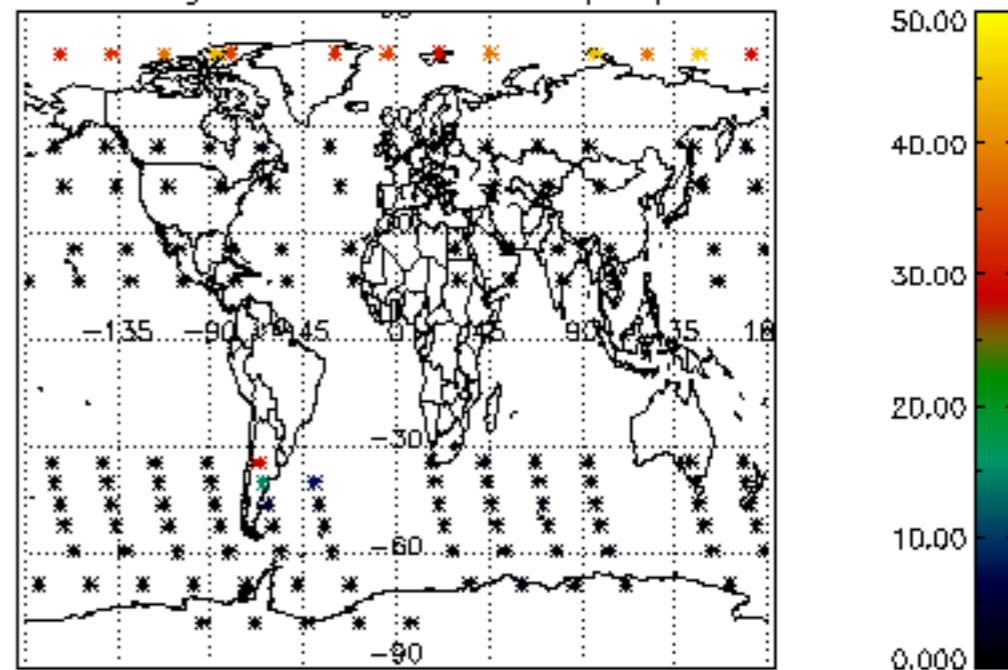
Percentage of datation errors per profile



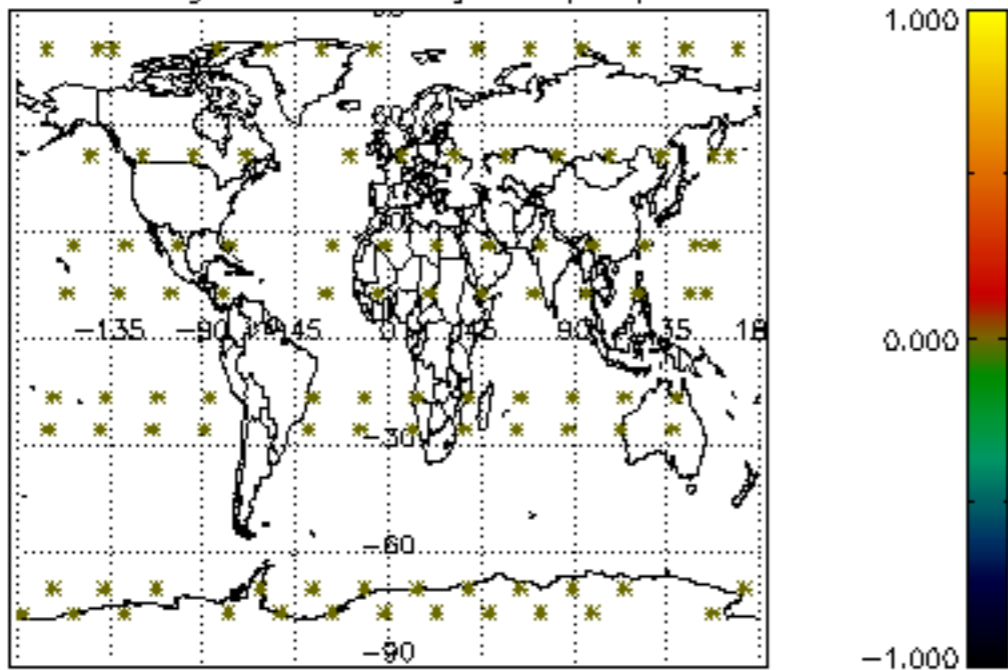
Percentage of star falling outside central band per profile



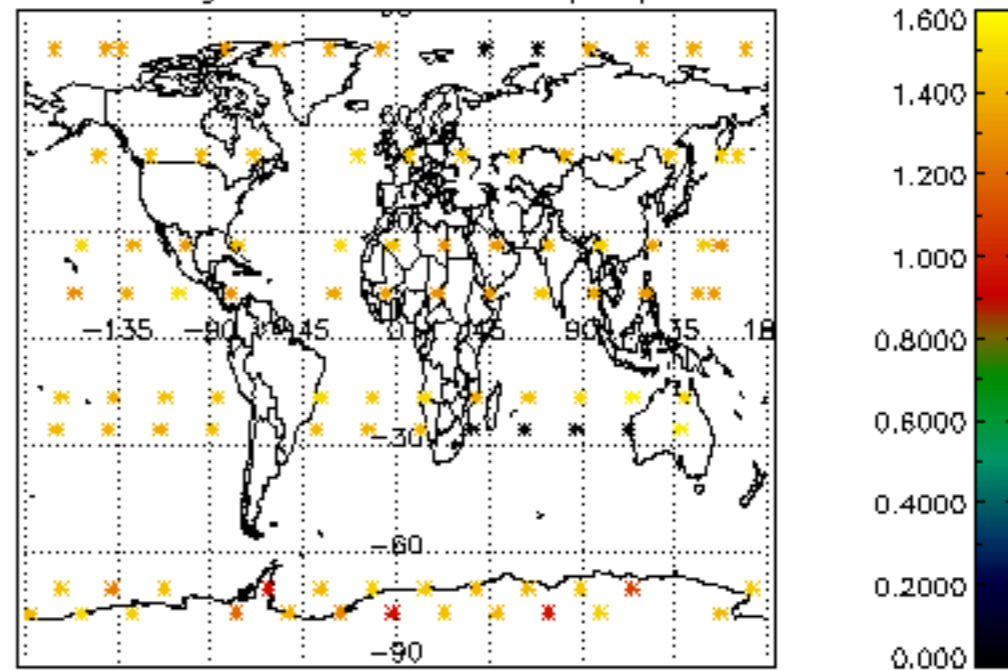
Percentage of saturation errors per profile



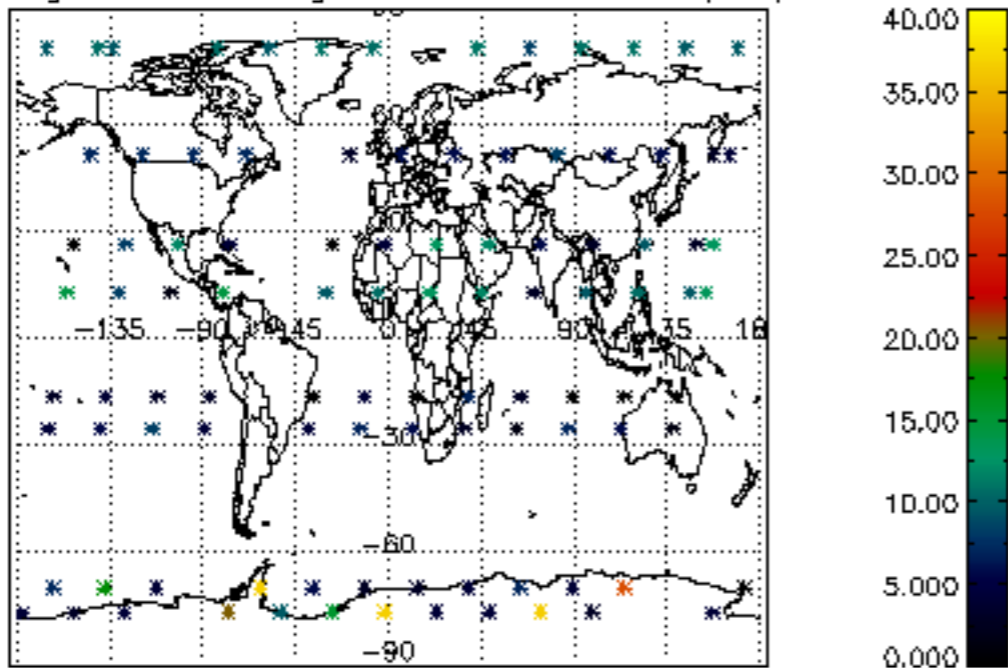
Percentage of cosmic ray hits per profile



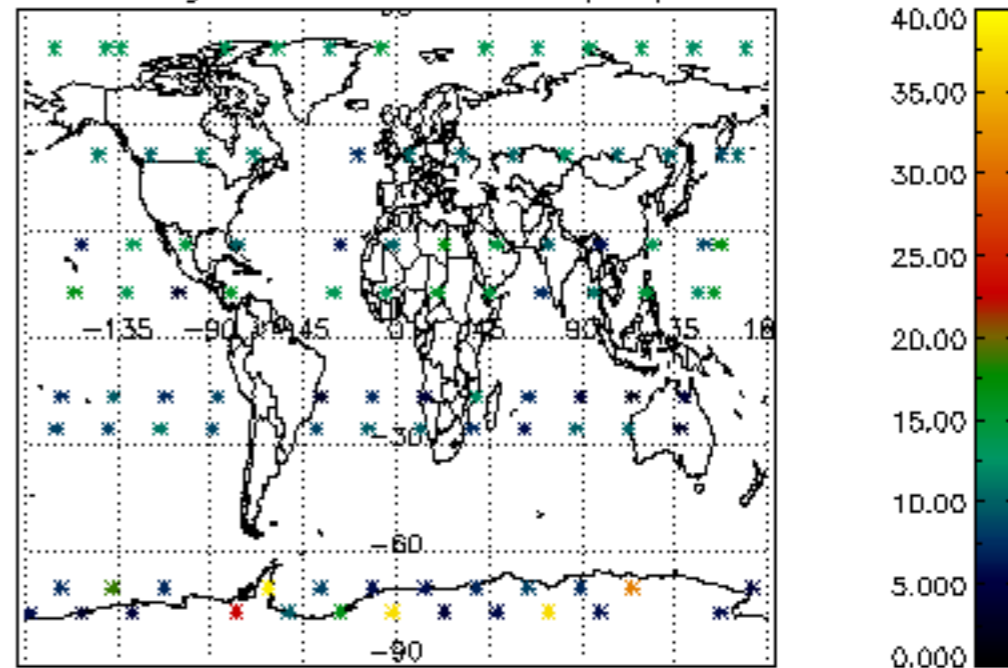
Percentage of datation errors per profile

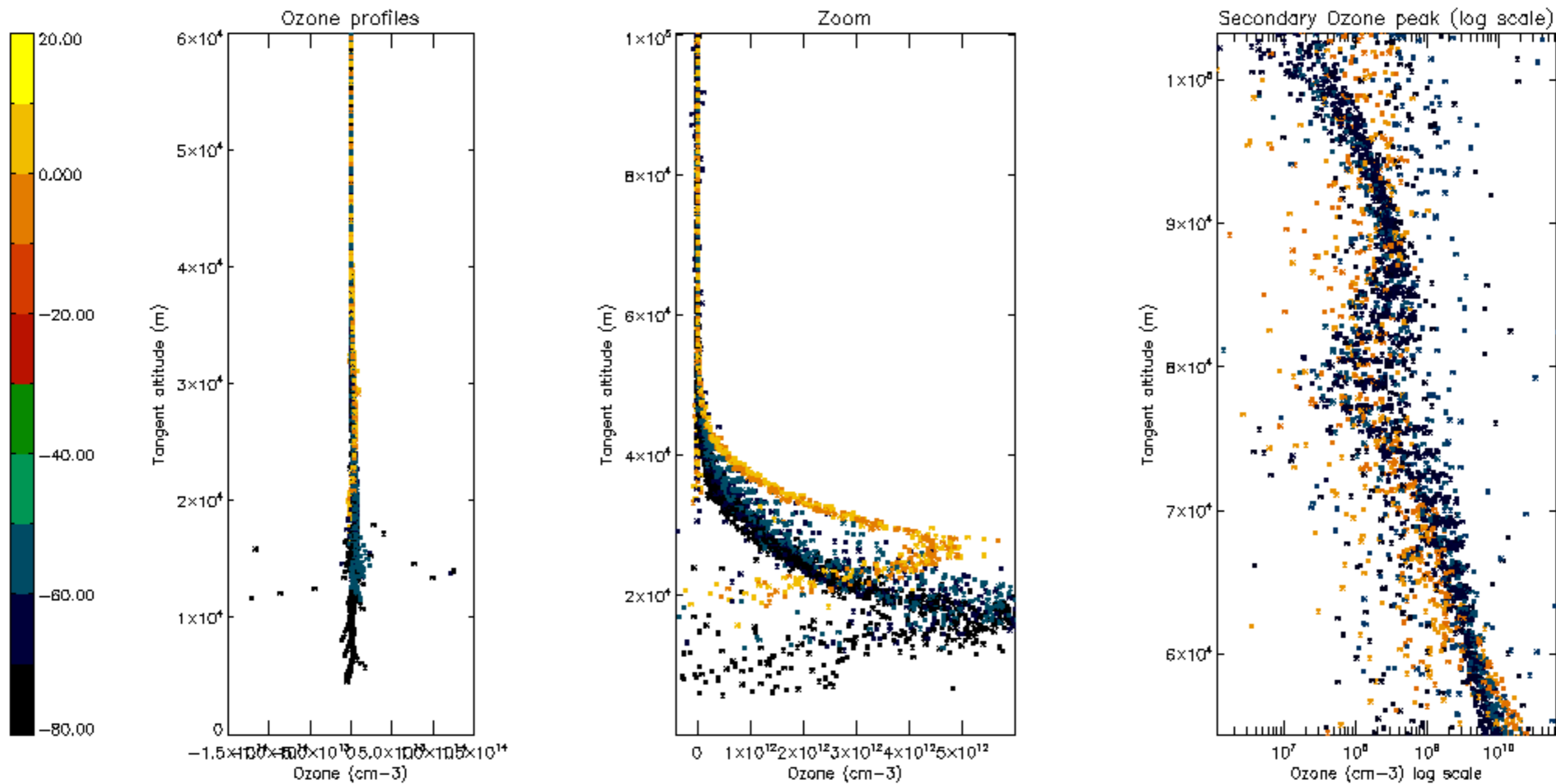


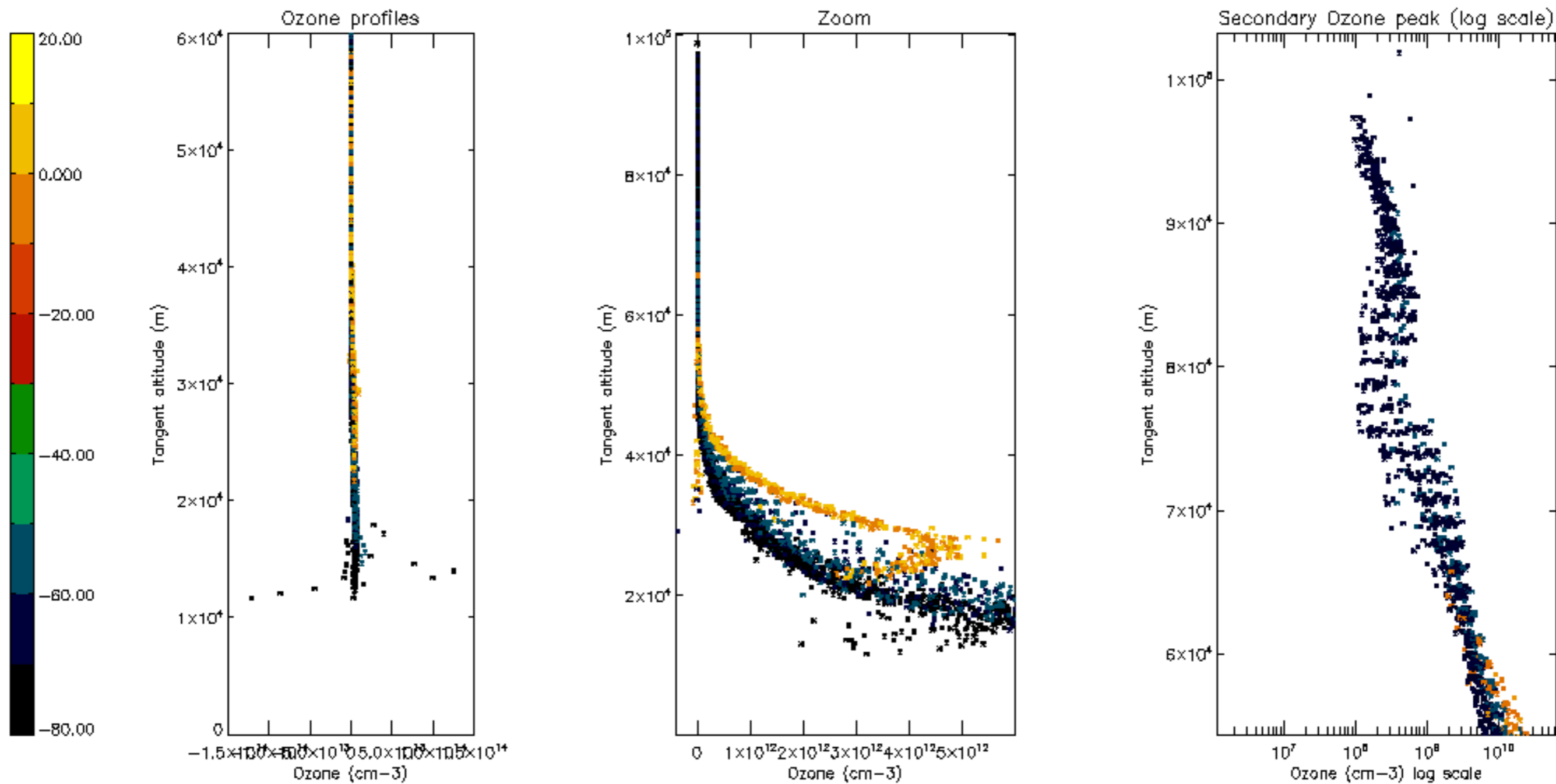
Percentage of star falling outside central band per profile

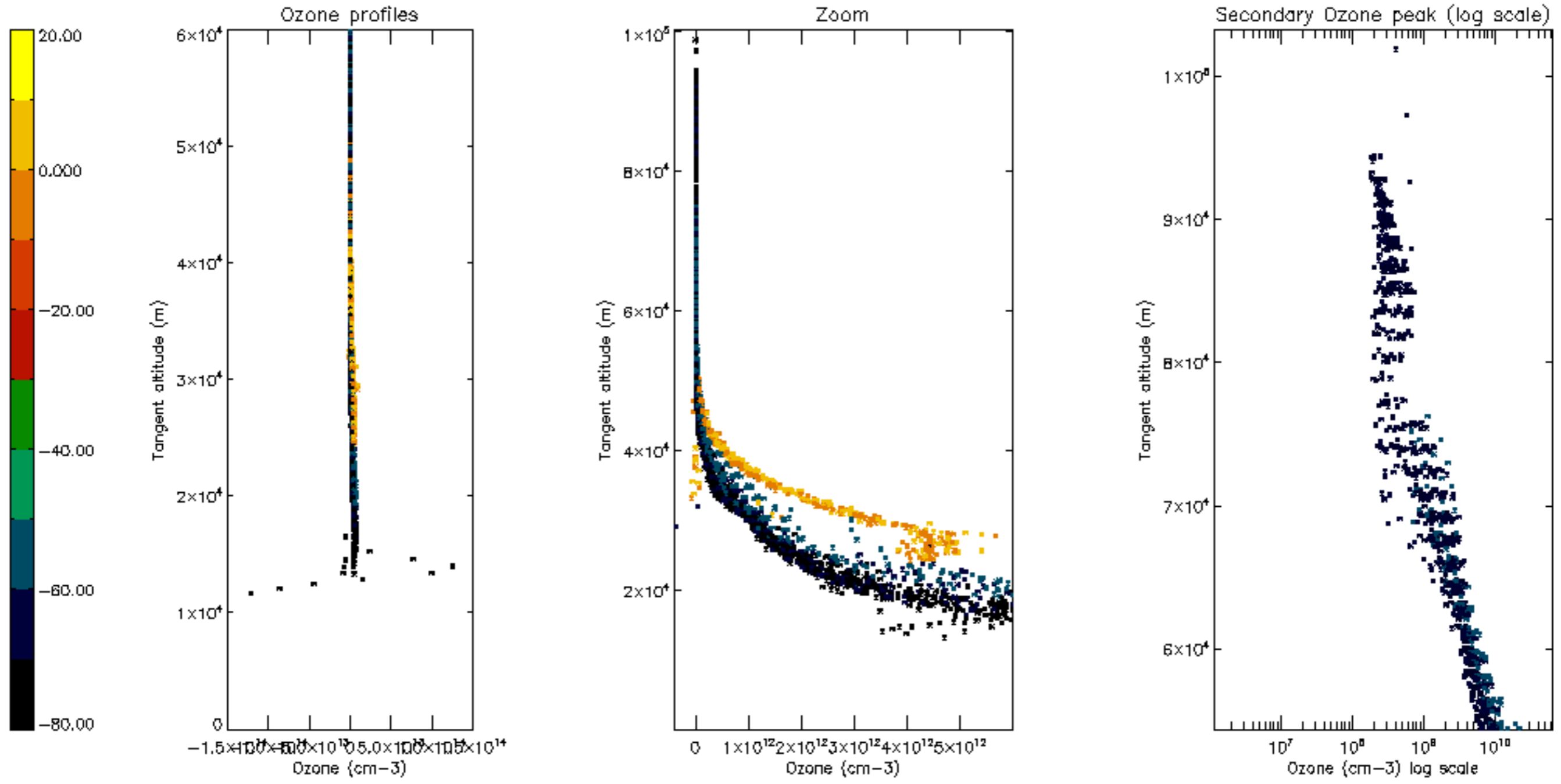


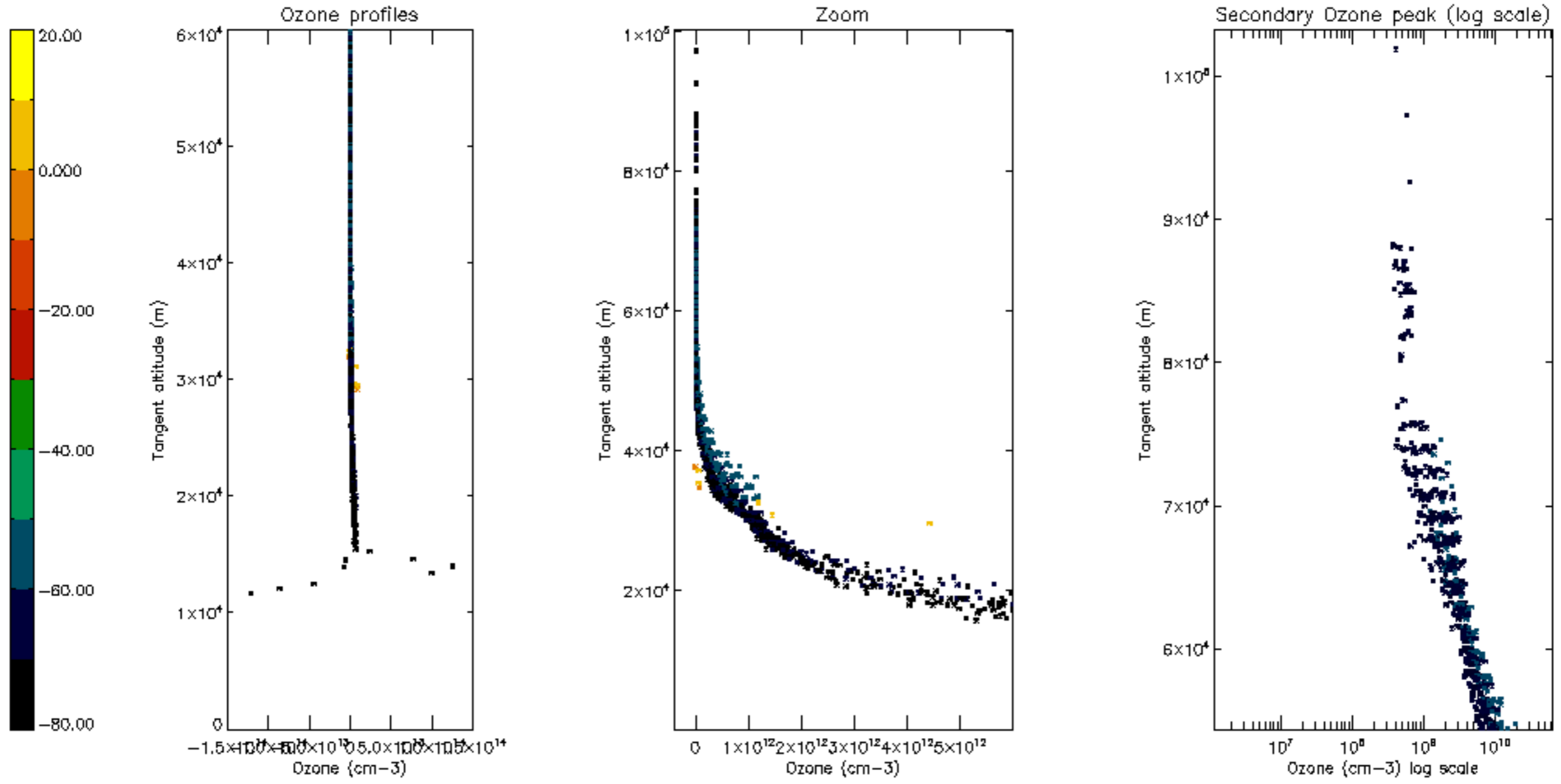
Percentage of saturation errors per profile

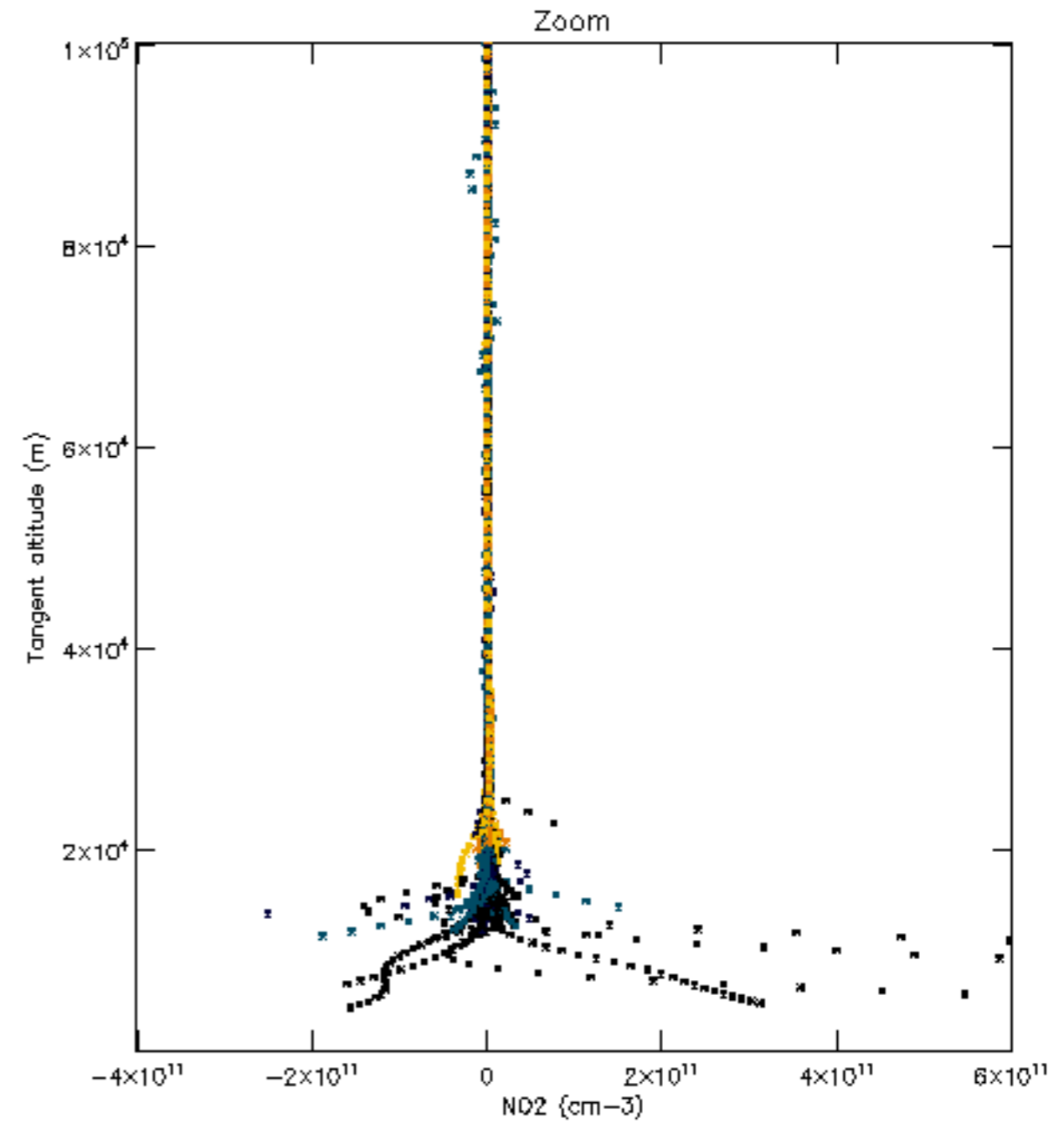
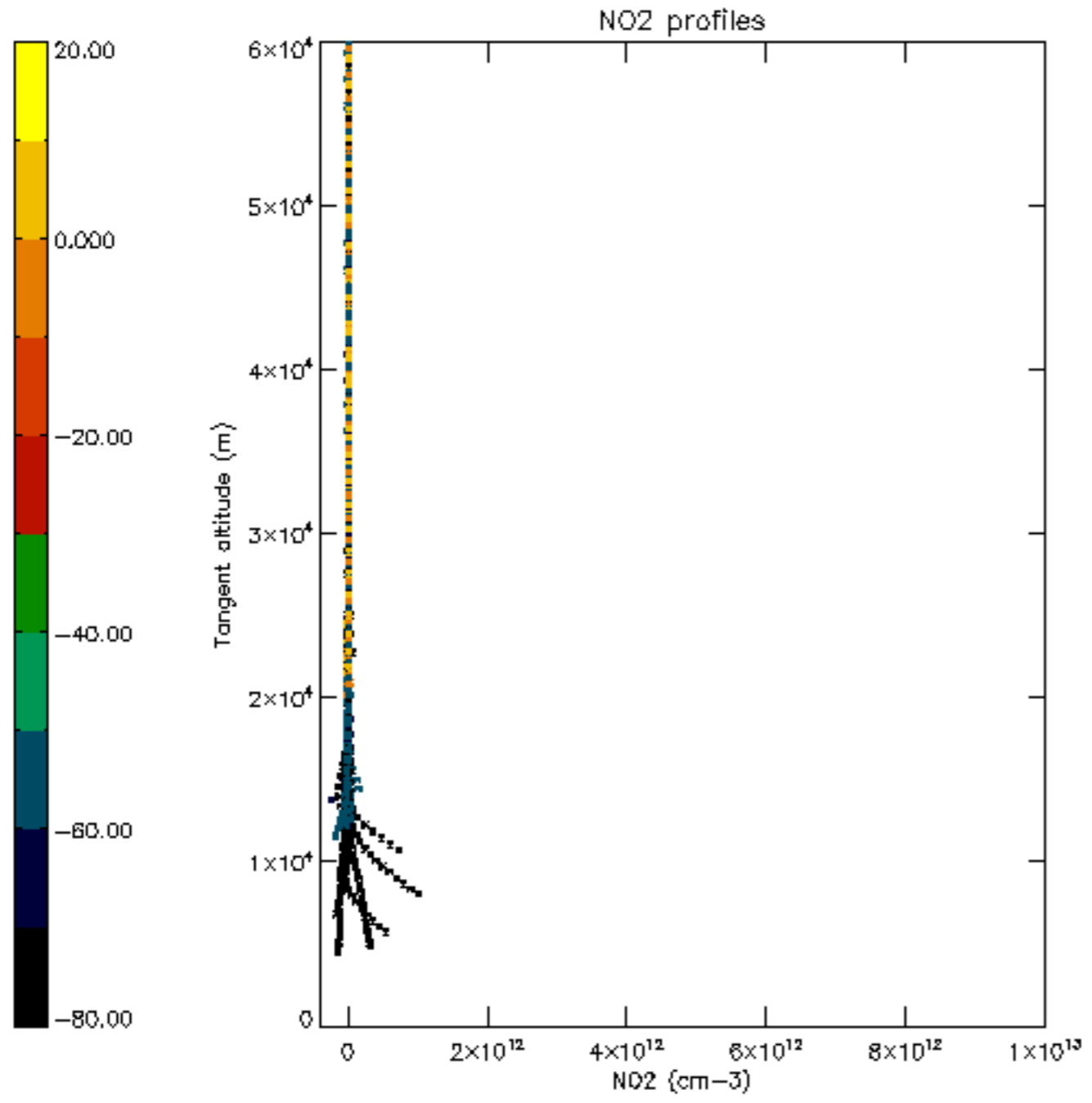


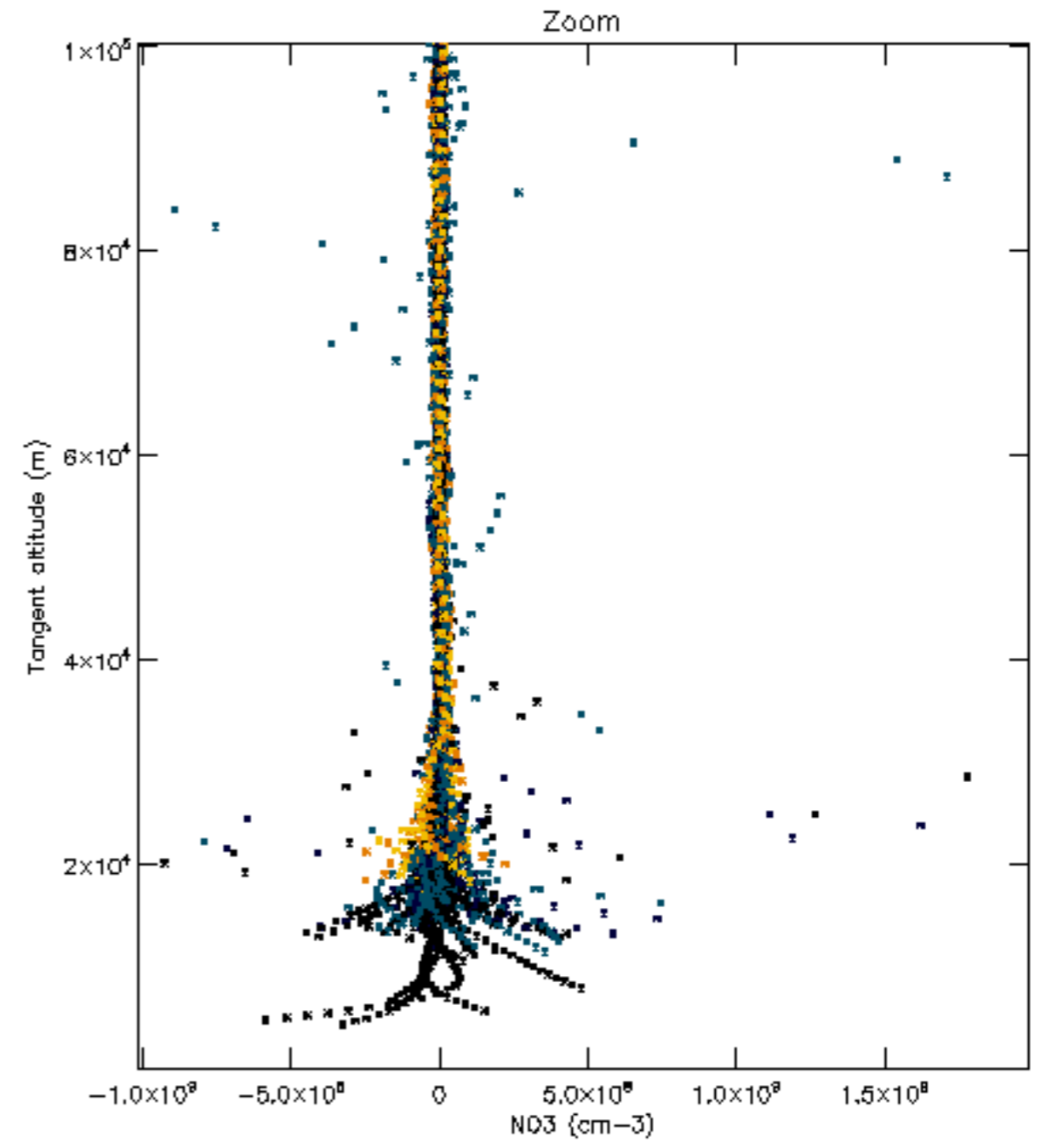
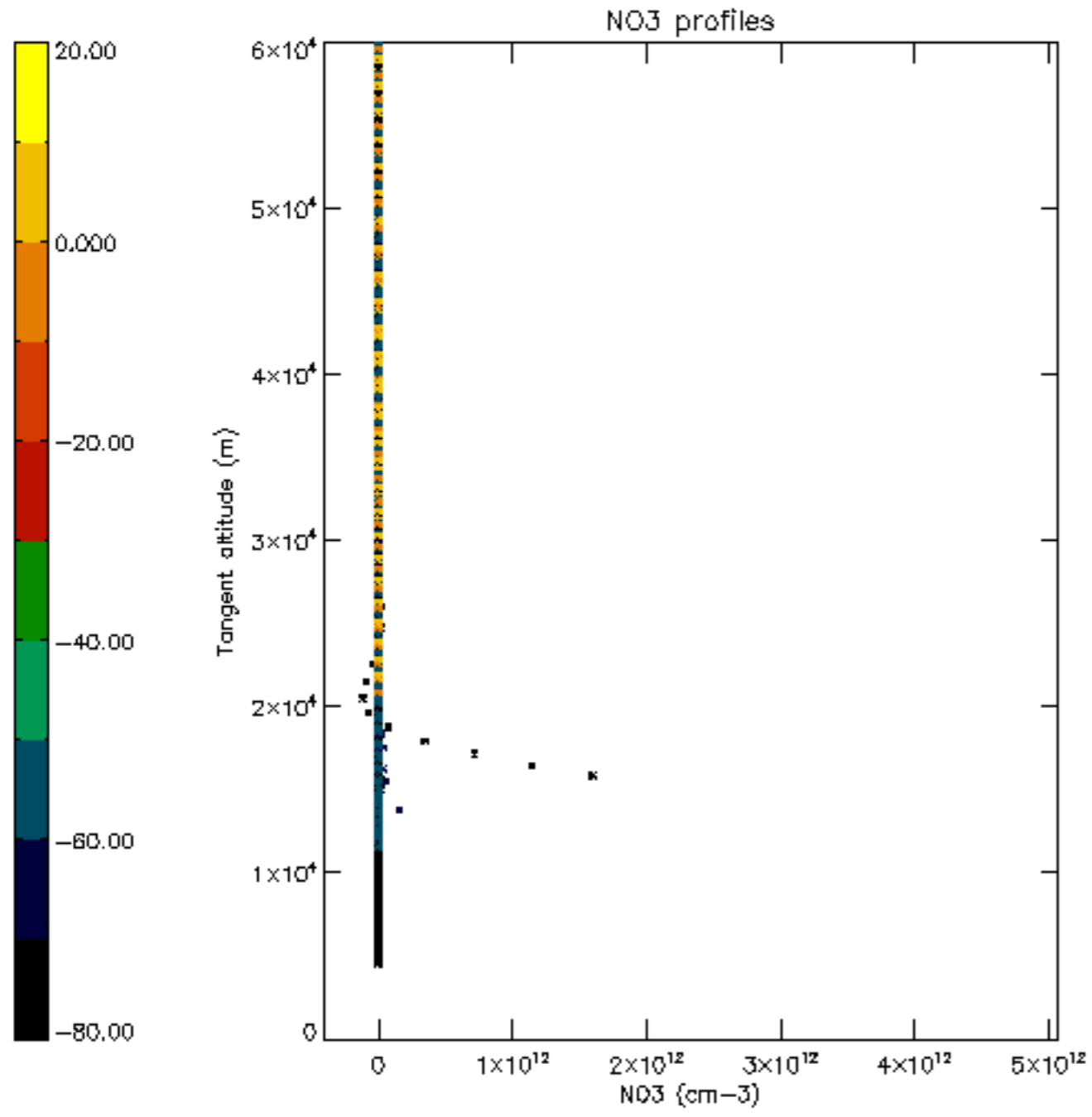


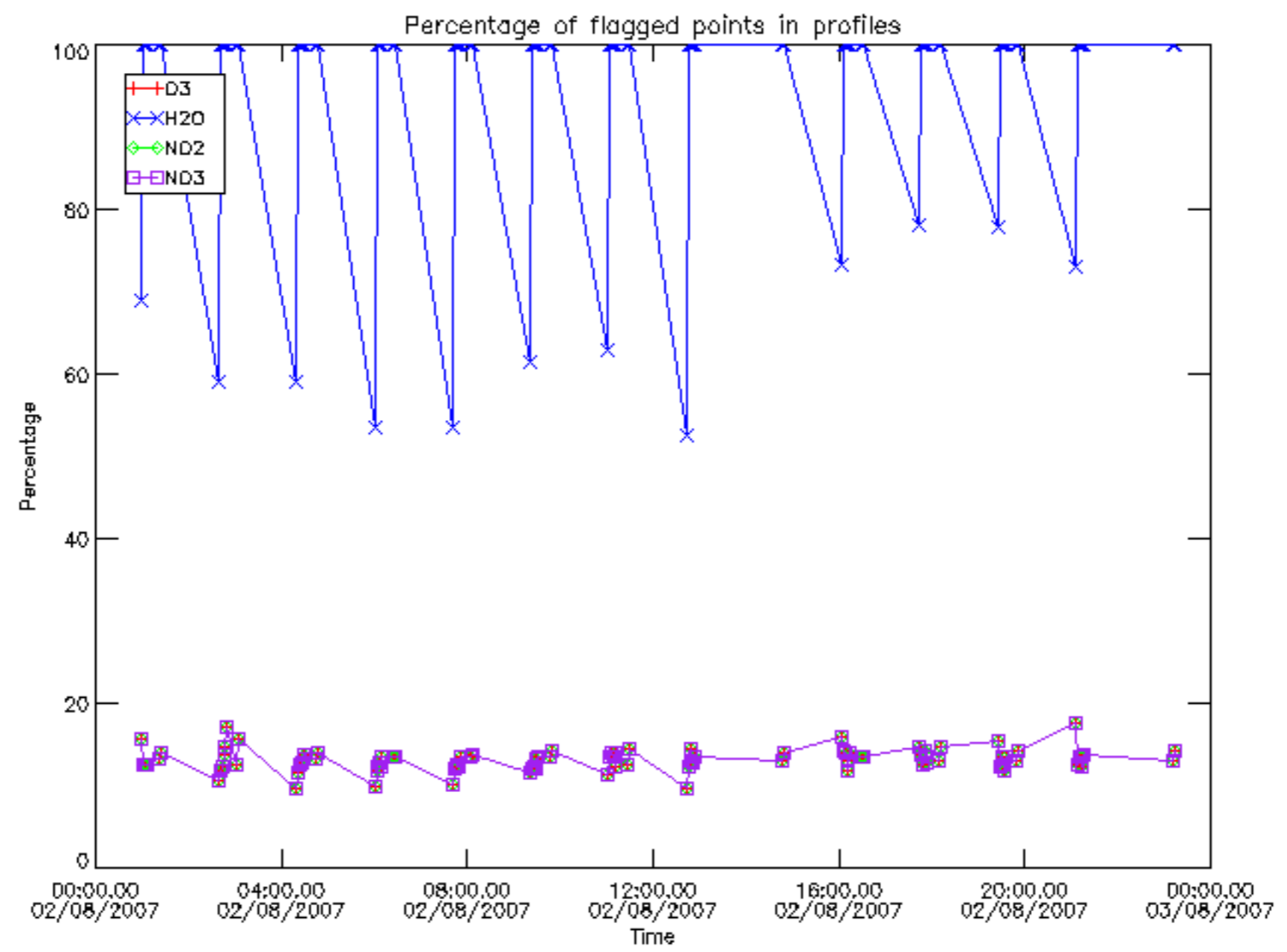




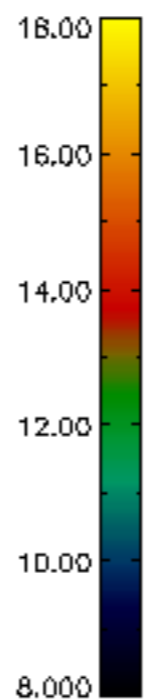
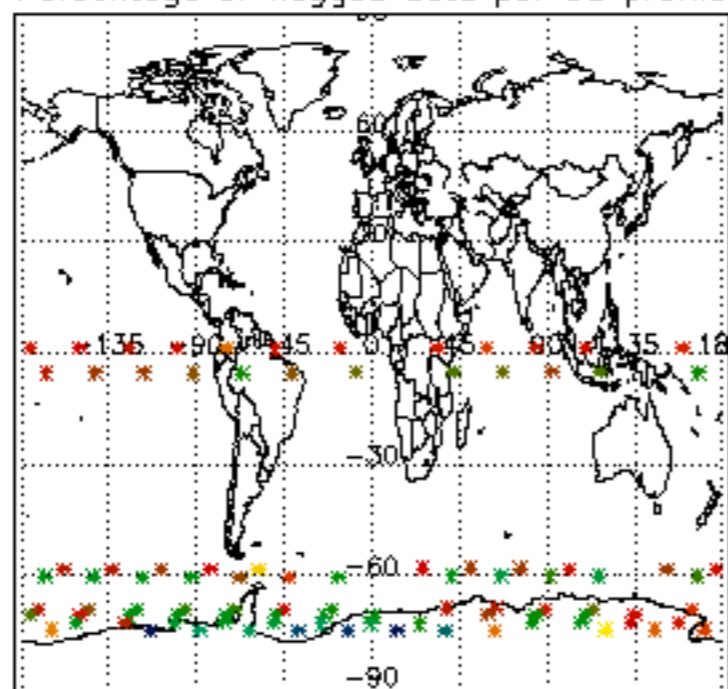




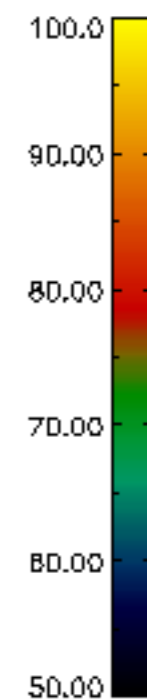
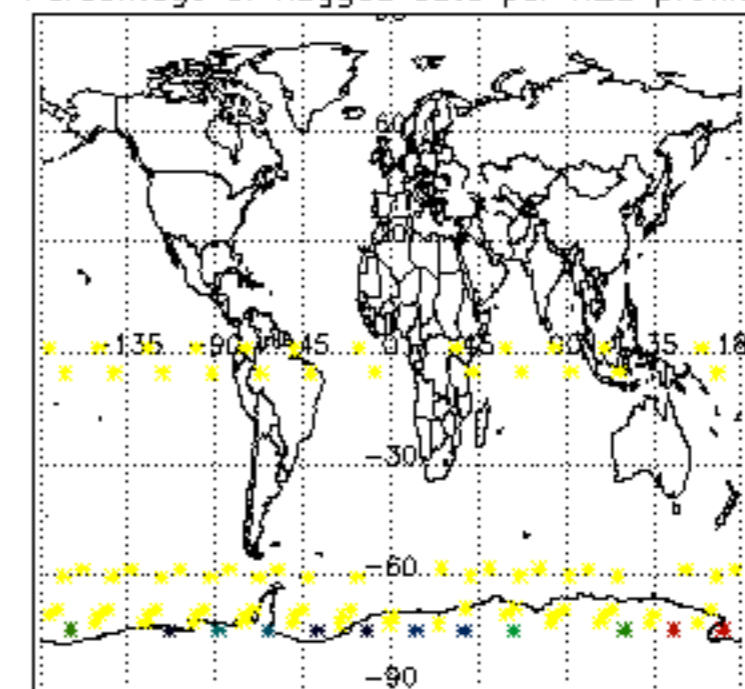




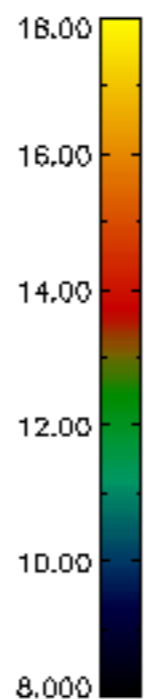
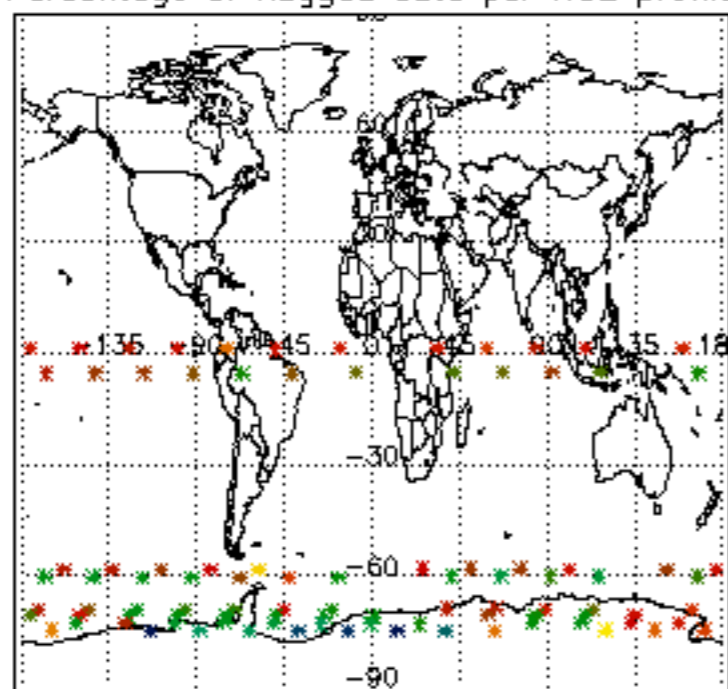
Percentage of flagged data per D3 profile



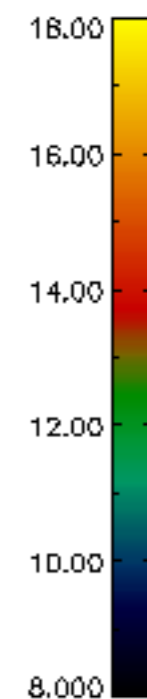
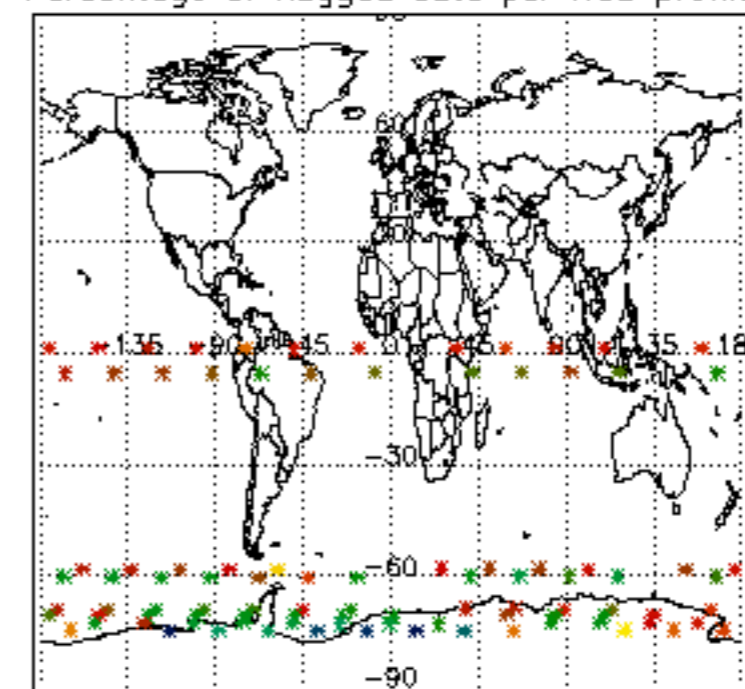
Percentage of flagged data per H2O profile

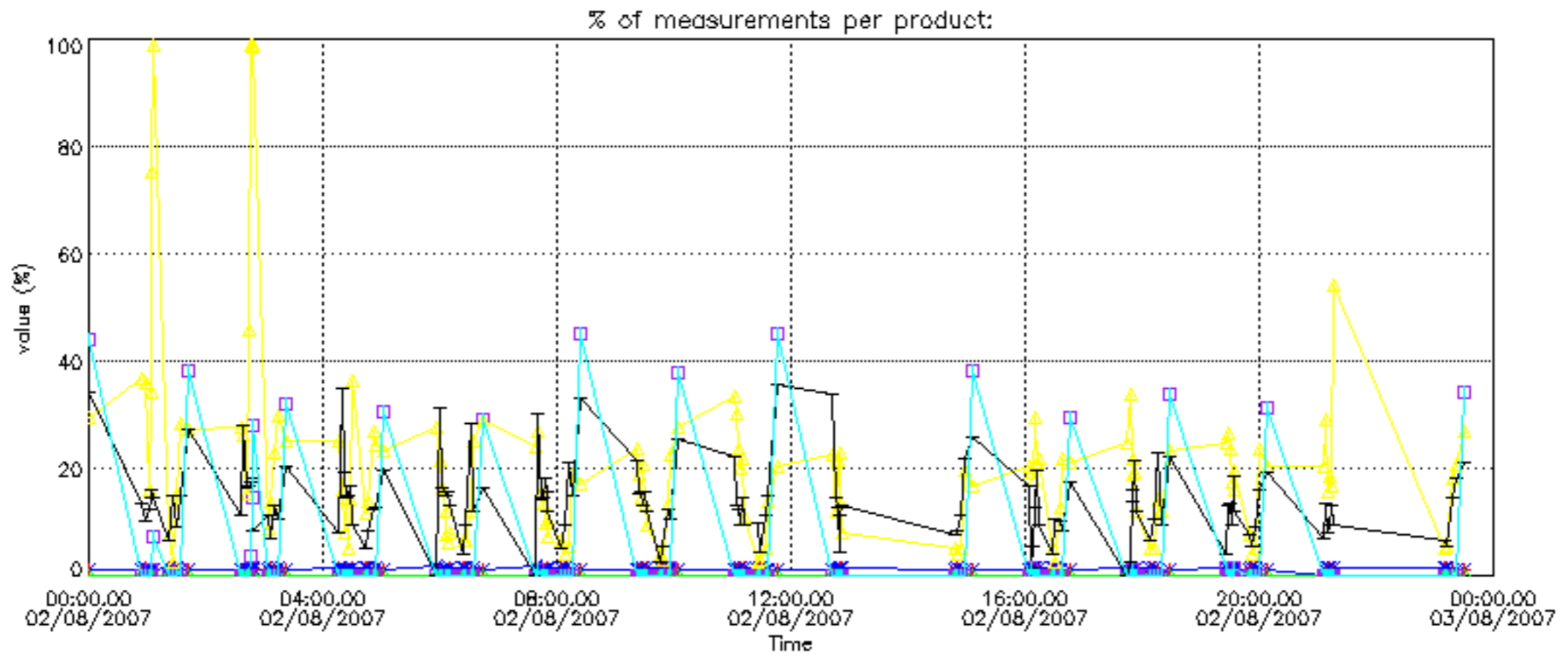


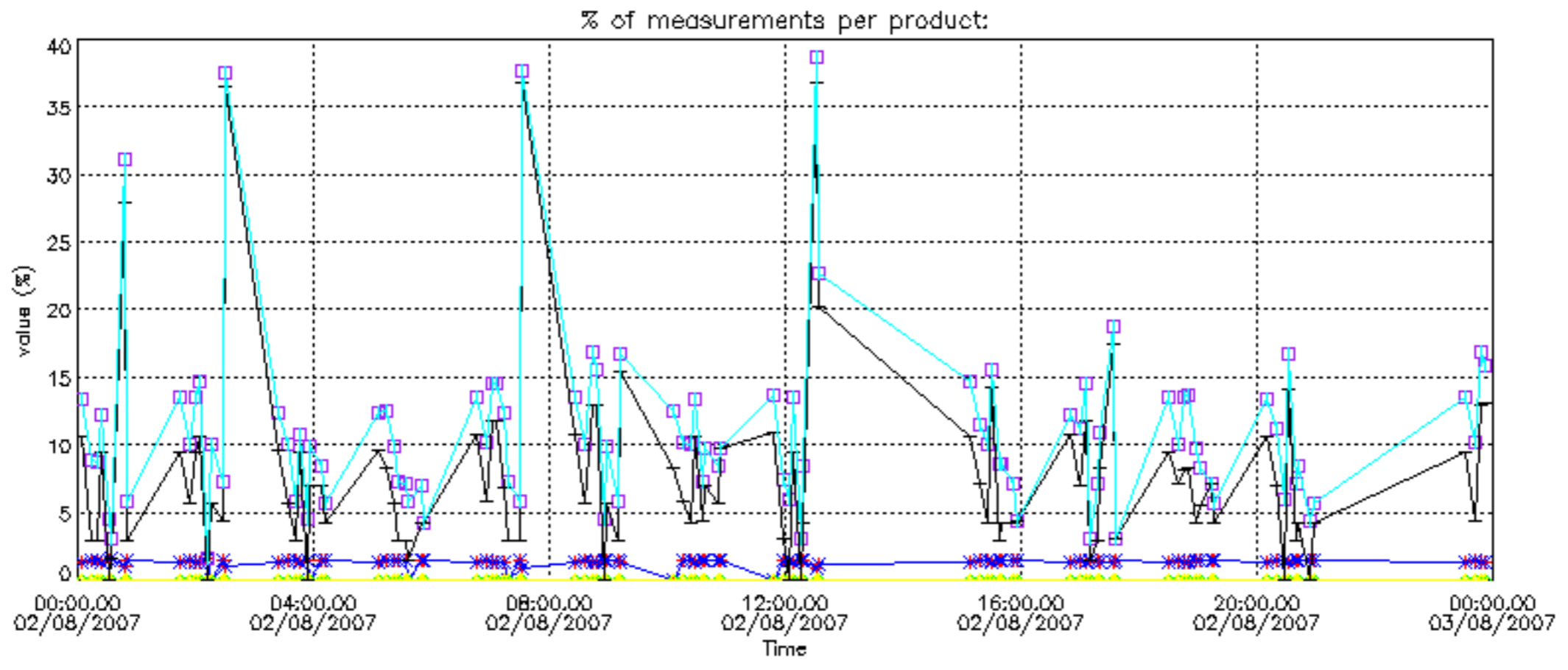
Percentage of flagged data per NO2 profile



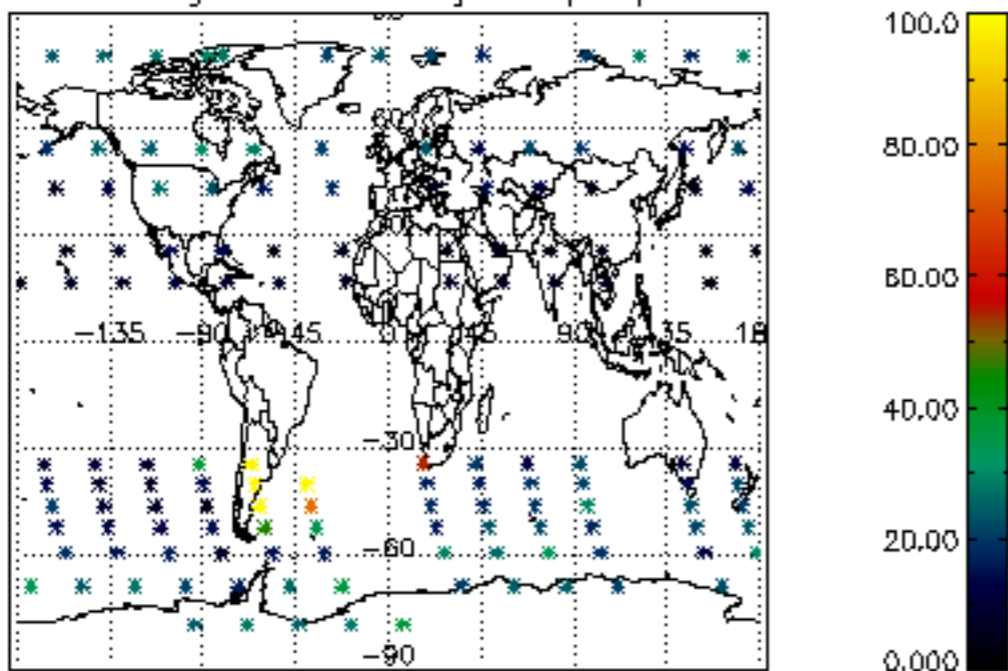
Percentage of flagged data per NO3 profile



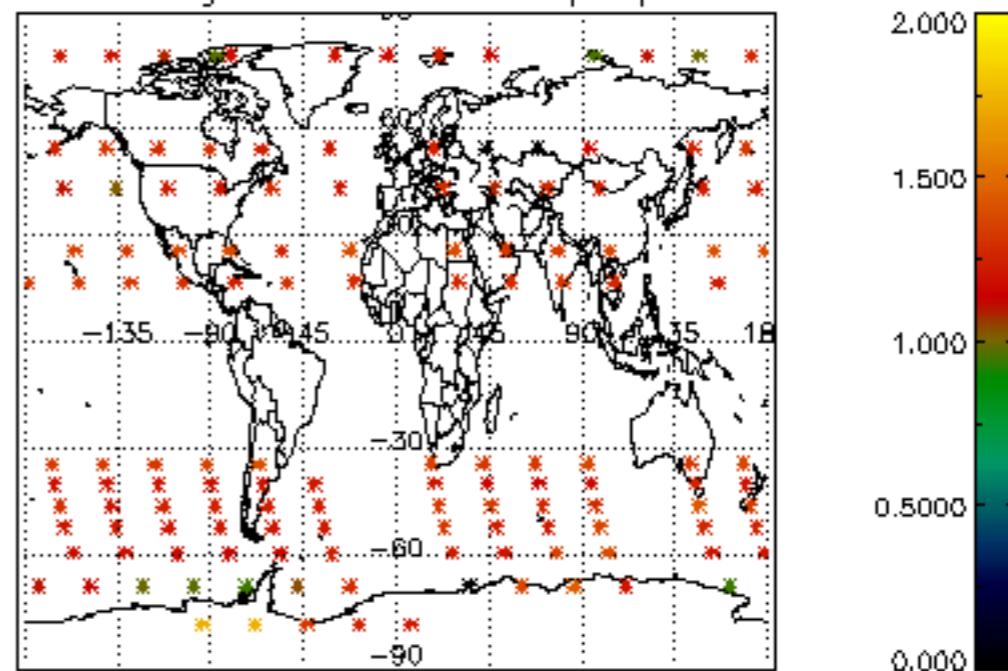




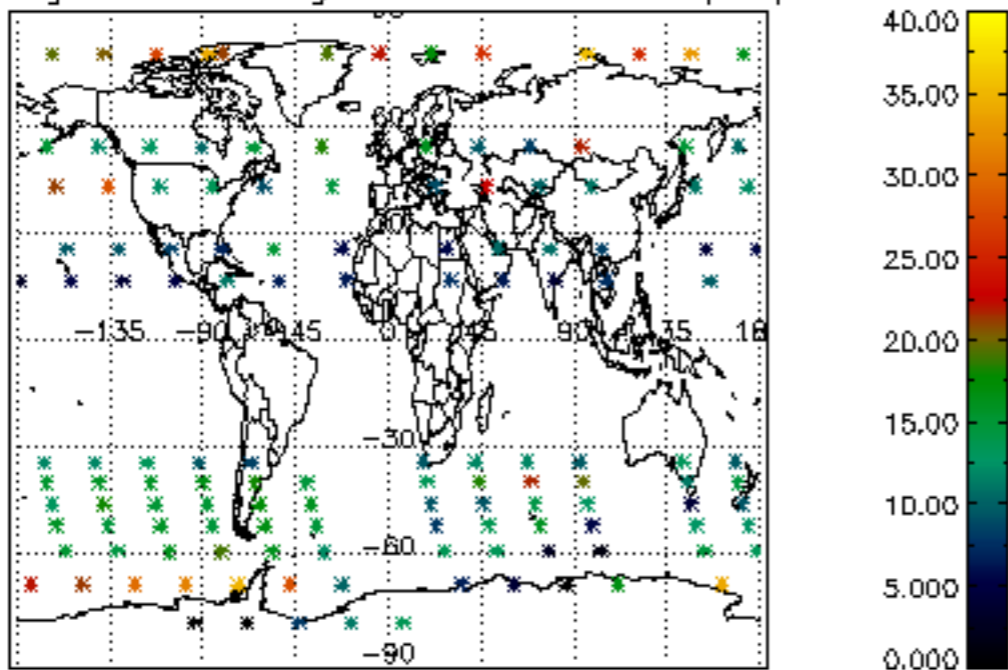
Percentage of cosmic ray hits per profile



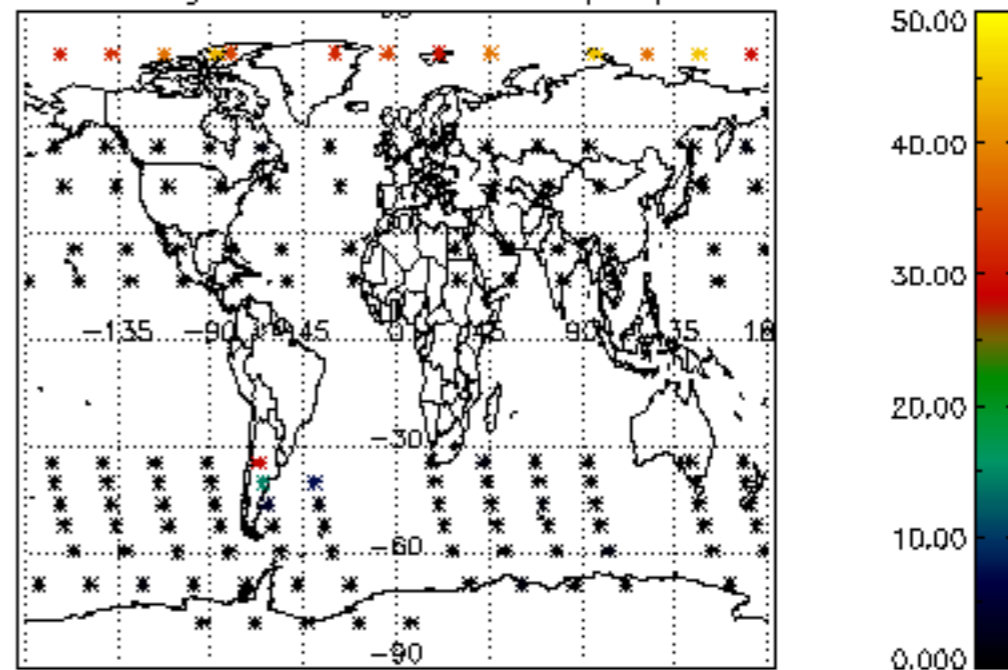
Percentage of datation errors per profile



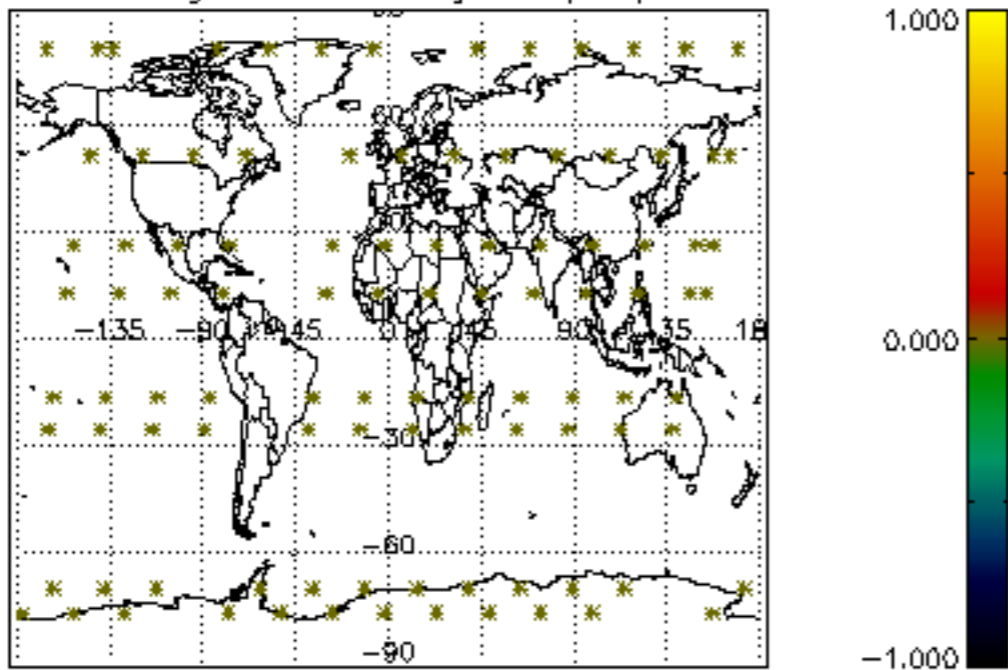
Percentage of star falling outside central band per profile



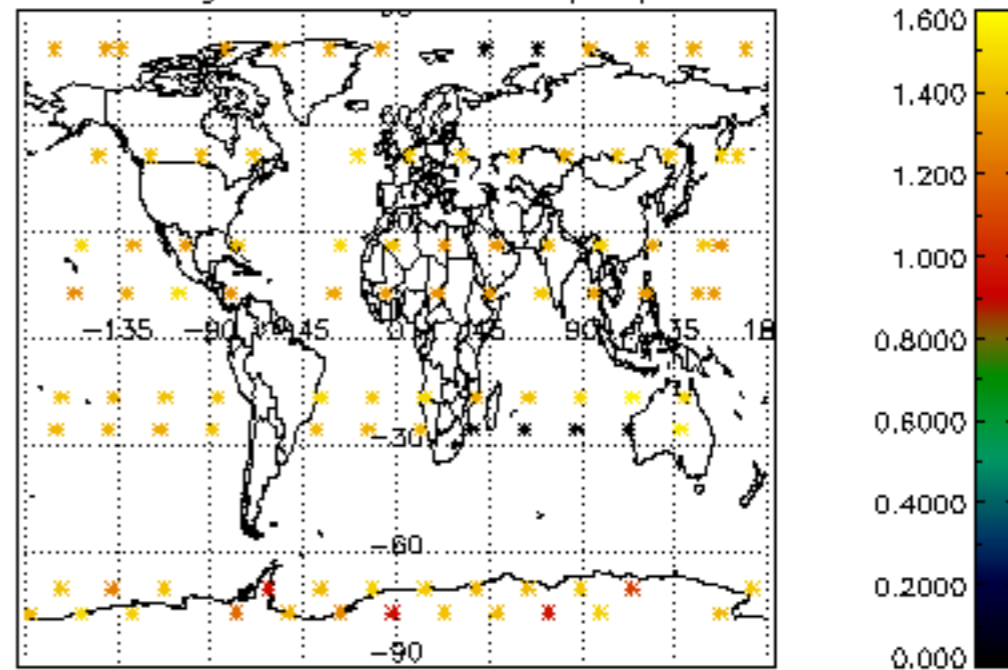
Percentage of saturation errors per profile



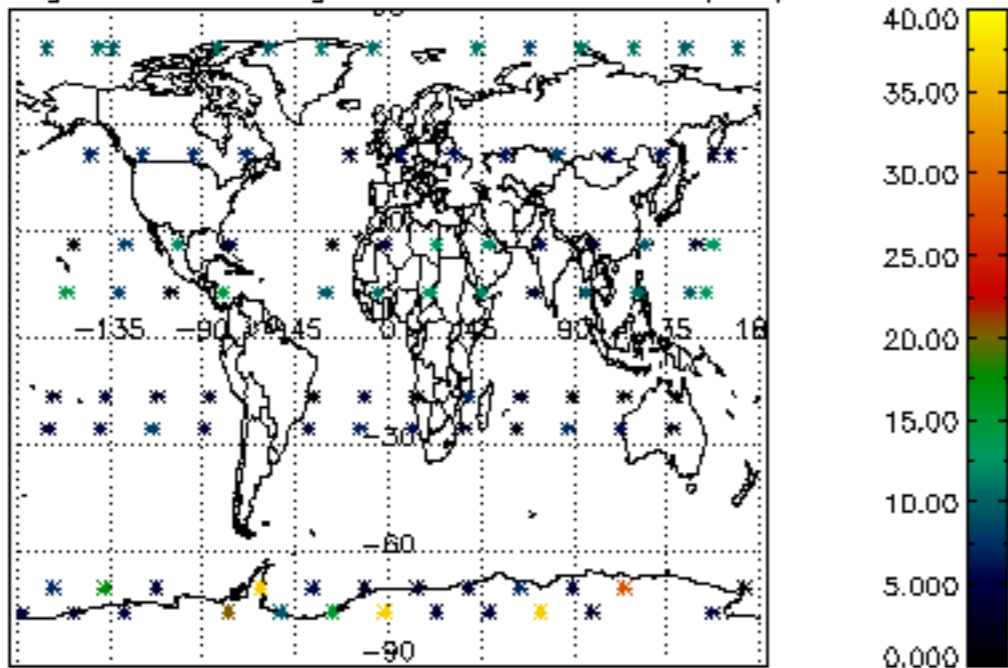
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

