

GOMOS Level 2 Daily Report

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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	26APR2013 12:10:06
Data source version	GOMOS/6.01
Start time of products	25-08-2009 (25AUG2009 00:00:00)
Stop time of products	26-08-2009 (26AUG2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	252
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

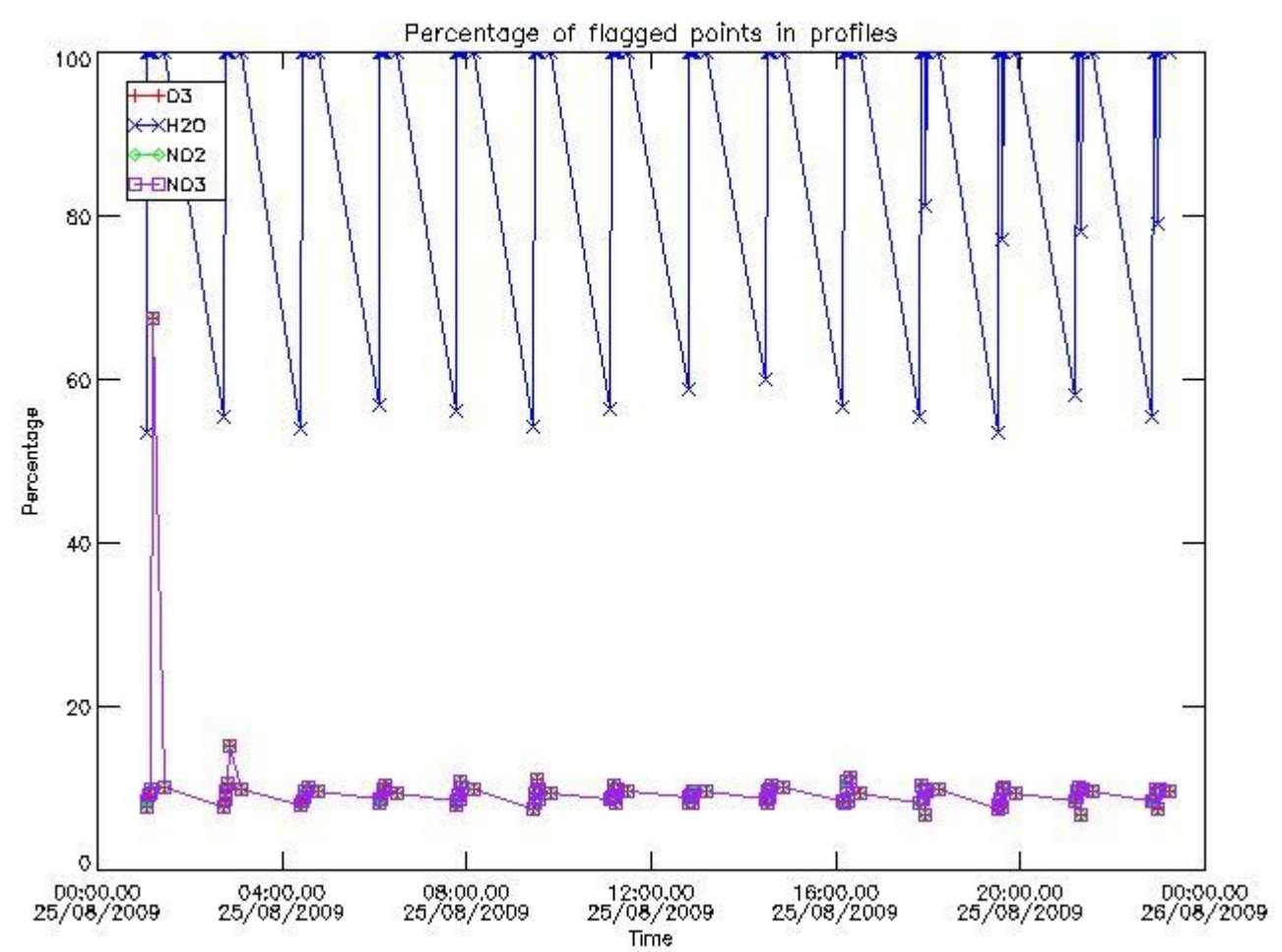
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090825_000144_000000492082_00002_39134_0853.N1	25-AUG-2009 00:01:44	Straylight	48.500	18	24Alp PsA	1.1660	9700.0	97	39134	No
2	GOM_NL__2PRFIN20090825_001146_000000412082_00002_39134_0854.N1	25-AUG-2009 00:11:46	Bright	41.000	162	34Alp Aqr	2.9440	5350.0	82	39134	No
3	GOM_NL__2PRFIN20090825_001450_000000422082_00002_39134_0855.N1	25-AUG-2009 00:14:50	Bright	41.500	61	8Eps Peg	2.1000	3900.0	83	39134	No
4	GOM_NL__2PRFIN20090825_002246_000000462082_00002_39134_0856.N1	25-AUG-2009 00:22:46	Bright	46.000	164	44Eta Peg	2.9480	5400.0	92	39134	No
5	GOM_NL__2PRFIN20090825_003336_000000462082_00002_39134_0857.N1	25-AUG-2009 00:33:36	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	39134	No
6	GOM_NL__2PRFIN20090825_003549_000000482082_00002_39134_0858.N1	25-AUG-2009 00:35:49	Bright	47.500	76	27Gam Cas	2.3000	30000.	95	39134	No
7	GOM_NL__2PRFIN20090825_004942_000000602082_00002_39134_0859.N1	25-AUG-2009 00:49:42	Bright	59.500	6	13Alp Aur	0.080000	3400.0	119	39134	No
8	GOM_NL__2PRFIN20090825_005300_000000462082_00002_39134_0860.N1	25-AUG-2009 00:53:00	Bright	45.500	107	37The Aur	2.6490	11000.	91	39134	No
9	GOM_NL__2PRFIN20090825_005625_000000592082_00002_39134_0861.N1	25-AUG-2009 00:56:25	Twilight	59.000	28	12Bet Tau	1.6500	15200.	118	39134	No
10	GOM_NL__2PRFIN20090825_005922_000000452082_00002_39134_0862.N1	25-AUG-2009 00:59:22	Twilight	44.500	44	24Gam Gem	1.9280	11000.	89	39134	No
11	GOM_NL__2PRFIN20090825_010322_000000672082_00002_39134_0863.N1	25-AUG-2009 01:03:22	Dark	67.000	14	58Alp Ori	0.87000	3000.0	134	39134	No
12	GOM_NL__2PRFIN20090825_010504_000000602082_00002_39134_0864.N1	25-AUG-2009 01:05:04	Dark	60.000	27	24Gam Ori	1.6360	26000.	120	39134	No
13	GOM_NL__2PRFIN20090825_010701_000000562082_00002_39134_0865.N1	25-AUG-2009 01:07:01	Dark	56.000	33	50Zet Ori	1.7660	30000.	112	39134	No
14	GOM_NL__2PRFIN20090825_010831_000000522082_00002_39134_0866.N1	25-AUG-2009 01:08:31	Dark	52.000	125	44Iot Ori	2.7700	30000.	104	39134	No
15	GOM_NL__2PRFIN20090825_011003_000000602082_00002_39134_0867.N1	25-AUG-2009 01:10:03	Dark	59.500	128	67Bet Eri	2.7840	9700.0	119	39134	No
16	GOM_NL__2PRFIN20090825_011201_000000512082_00002_39134_0868.N1	25-AUG-2009 01:12:01	Dark	51.000	101	11Alp Lep	2.5820	7000.0	102	39134	No
17	GOM_NL__2PRFIN20090825_012646_000000552082_00003_39135_0867.N1	25-AUG-2009 01:26:46	Dark	55.000	157	The1Eri	2.9060	9300.0	110	39135	No
18	GOM_NL__2PRFIN20090825_013539_000000512082_00003_39135_0868.N1	25-AUG-2009 01:35:39	Straylight	50.500	84	Alp Phe	2.3970	4500.0	101	39135	No
19	GOM_NL__2PRFIN20090825_014220_000000512082_00003_39135_0869.N1	25-AUG-2009 01:42:20	Straylight	50.500	18	24Alp PsA	1.1660	9700.0	101	39135	No
20	GOM_NL__2PRFIN20090825_015222_000000422082_00003_39135_0870.N1	25-AUG-2009 01:52:22	Bright	41.500	162	34Alp Aqr	2.9440	5350.0	83	39135	No
21	GOM_NL__2PRFIN20090825_015525_000000392082_00003_39135_0871.N1	25-AUG-2009 01:55:25	Bright	39.000	61	8Eps Peg	2.1000	3900.0	78	39135	No
22	GOM_NL__2PRFIN20090825_020321_000000702082_00003_39135_0872.N1	25-AUG-2009 02:03:21	Bright	70.000	164	44Eta Peg	2.9480	5400.0	140	39135	No
23	GOM_NL__2PRFIN20090825_021411_000000422082_00003_39135_0873.N1	25-AUG-2009 02:14:11	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	39135	No
24	GOM_NL__2PRFIN20090825_021624_000000462082_00003_39135_0874.N1	25-AUG-2009 02:16:24	Bright	45.500	76	27Gam Cas	2.3000	30000.	91	39135	No
25	GOM_NL__2PRFIN20090825_023018_000000532082_00003_39135_0875.N1	25-AUG-2009 02:30:18	Bright	53.000	6	13Alp Aur	0.080000	3400.0	106	39135	No
26	GOM_NL__2PRFIN20090825_023336_000000432082_00003_39135_0876.N1	25-AUG-2009 02:33:36	Bright	43.000	107	37The Aur	2.6490	11000.	86	39135	No
27	GOM_NL__2PRFIN20090825_023701_000000582082_00003_39135_0877.N1	25-AUG-2009 02:37:01	Twilight	58.000	28	12Bet Tau	1.6500	15200.	116	39135	No
28	GOM_NL__2PRFIN20090825_023958_000000422082_00003_39135_0878.N1	25-AUG-2009 02:39:58	Twilight	42.000	44	24Gam Gem	1.9280	11000.	84	39135	No
29	GOM_NL__2PRFIN20090825_024359_000000672082_00003_39135_0879.N1	25-AUG-2009 02:43:59	Dark	66.500	14	58Alp Ori	0.87000	3000.0	133	39135	No
30	GOM_NL__2PRFIN20090825_024540_000000592082_00003_39135_0880.N1	25-AUG-2009 02:45:40	Dark	58.500	27	24Gam Ori	1.6360	26000.	117	39135	No
31	GOM_NL__2PRFIN20090825_024738_000000542082_00003_39135_0881.N1	25-AUG-2009 02:47:38	Dark	53.500	33	50Zet Ori	1.7660	30000.	107	39135	No
32	GOM_NL__2PRFIN20090825_024908_000000532082_00003_39135_0882.N1	25-AUG-2009 02:49:08	Dark	52.500	125	44Iot Ori	2.7700	30000.	105	39135	No
33	GOM_NL__2PRFIN20090825_025238_000000512082_00003_39135_0883.N1	25-AUG-2009 02:52:38	Dark	50.500	101	11Alp Lep	2.5820	7000.0	101	39135	No
34	GOM_NL__2PRFIN20090825_030723_000000522082_00004_39136_0879.N1	25-AUG-2009 03:07:23	Dark	52.000	157	The1Eri	2.9060	9300.0	104	39136	No
35	GOM_NL__2PRFIN20090825_031616_000000552082_00004_39136_0880.N1	25-AUG-2009 03:16:16	Straylight	54.500	84	Alp Phe	2.3970	4500.0	109	39136	No
36	GOM_NL__2PRFIN20090825_032257_000000492082_00004_39136_0881.N1	25-AUG-2009 03:22:57	Straylight	49.000	18	24Alp PsA	1.1660	9700.0	98	39136	No
37	GOM_NL__2PRFIN20090825_033258_000000422082_00004_39136_0882.N1	25-AUG-2009 03:32:58	Bright	42.000	162	34Alp Aqr	2.9440	5350.0	84	39136	No
38	GOM_NL__2PRFIN20090825_033601_000000412082_00004_39136_0883.N1	25-AUG-2009 03:36:01	Bright	41.000	61	8Eps Peg	2.1000	3900.0	82	39136	No
39	GOM_NL__2PRFIN20090825_034356_000000492082_00004_39136_0884.N1	25-AUG-2009 03:43:56	Bright	48.500	164	44Eta Peg	2.9480	5400.0	97	39136	No
40	GOM_NL__2PRFIN20090825_035446_000000472082_00004_39136_0885.N1	25-AUG-2009 03:54:46	Bright	47.000	74	11Bet Cas	2.2680	6600.0	94	39136	No
41	GOM_NL__2PRFIN20090825_035659_000000452082_00004_39136_0886.N1	25-AUG-2009 03:56:59	Bright	44.500	76	27Gam Cas	2.3000	30000.	89	39136	No
42	GOM_NL__2PRFIN20090825_041054_000000592082_00004_39136_0887.N1	25-AUG-2009 04:10:54	Bright	59.000	6	13Alp Aur	0.080000	3400.0	118	39136	No

220	GOM_NL__2PRFIN20090825_210012_000000452082_00014_39146_0972.N1	25-AUG-2009 21:00:12	Bright	45.000	107	37The Aur	2.6490	11000.	90	39146	No
221	GOM_NL__2PRFIN20090825_210339_000000602082_00014_39146_0973.N1	25-AUG-2009 21:03:39	Twilight	59.500	28	12Bet Tau	1.6500	15200.	119	39146	No
222	GOM_NL__2PRFIN20090825_210637_000000442082_00014_39146_0974.N1	25-AUG-2009 21:06:37	Twilight	44.000	44	24Gam Gem	1.9280	11000.	88	39146	No
223	GOM_NL__2PRFIN20090825_211041_000000602082_00014_39146_0975.N1	25-AUG-2009 21:10:41	Dark	60.000	14	58Alp Ori	0.87000	3000.0	120	39146	No
224	GOM_NL__2PRFIN20090825_211226_000000642082_00014_39146_0976.N1	25-AUG-2009 21:12:26	Dark	63.500	27	24Gam Ori	1.6360	26000.	127	39146	No
225	GOM_NL__2PRFIN20090825_211423_000000592082_00014_39146_0977.N1	25-AUG-2009 21:14:23	Dark	58.500	30	46Eps Ori	1.6940	30000.	117	39146	No
226	GOM_NL__2PRFIN20090825_211620_000000502082_00014_39146_0978.N1	25-AUG-2009 21:16:20	Dark	50.000	56	53Kap Ori	2.0650	30000.	100	39146	No
227	GOM_NL__2PRFIN20090825_211756_000000762082_00014_39146_0979.N1	25-AUG-2009 21:17:56	Dark	75.500	7	19Bet Ori	0.10000	14000.	151	39146	No
228	GOM_NL__2PRFIN20090825_212025_000000522082_00014_39146_0980.N1	25-AUG-2009 21:20:25	Dark	51.500	139	9Bet Lep	2.8330	5600.0	103	39146	No
229	GOM_NL__2PRFIN20090825_213412_000000532082_00015_39147_0963.N1	25-AUG-2009 21:34:12	Dark	53.000	157	The1Eri	2.9060	9300.0	106	39147	No
230	GOM_NL__2PRFIN20090825_214259_000000562082_00015_39147_0964.N1	25-AUG-2009 21:42:59	Straylight	55.500	84	Alp Phe	2.3970	4500.0	111	39147	No
231	GOM_NL__2PRFIN20090825_214936_000000492082_00015_39147_0965.N1	25-AUG-2009 21:49:36	Straylight	48.500	18	24Alp PsA	1.1660	9700.0	97	39147	No
232	GOM_NL__2PRFIN20090825_215932_000000412082_00015_39147_0966.N1	25-AUG-2009 21:59:32	Bright	40.500	162	34Alp Aqr	2.9440	5350.0	81	39147	No
233	GOM_NL__2PRFIN20090825_220235_000000572082_00015_39147_0967.N1	25-AUG-2009 22:02:35	Bright	57.000	61	8Eps Peg	2.1000	3900.0	114	39147	No
234	GOM_NL__2PRFIN20090825_221024_000000462082_00015_39147_0968.N1	25-AUG-2009 22:10:24	Bright	46.000	164	44Eta Peg	2.9480	5400.0	92	39147	No
235	GOM_NL__2PRFIN20090825_222114_000000482082_00015_39147_0969.N1	25-AUG-2009 22:21:14	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	39147	No
236	GOM_NL__2PRFIN20090825_222326_000000462082_00015_39147_0970.N1	25-AUG-2009 22:23:26	Bright	46.000	76	27Gam Cas	2.3000	30000.	92	39147	No
237	GOM_NL__2PRFIN20090825_223727_000000572082_00015_39147_0971.N1	25-AUG-2009 22:37:27	Bright	56.500	6	13Alp Aur	0.080000	3400.0	113	39147	No
238	GOM_NL__2PRFIN20090825_224047_000000422082_00015_39147_0972.N1	25-AUG-2009 22:40:47	Bright	41.500	107	37The Aur	2.6490	11000.	83	39147	No
239	GOM_NL__2PRFIN20090825_224415_000000582082_00015_39147_0973.N1	25-AUG-2009 22:44:15	Twilight	57.500	28	12Bet Tau	1.6500	15200.	115	39147	No
240	GOM_NL__2PRFIN20090825_224713_000000462082_00015_39147_0974.N1	25-AUG-2009 22:47:13	Twilight	45.500	44	24Gam Gem	1.9280	11000.	91	39147	No
241	GOM_NL__2PRFIN20090825_225117_000000602082_00015_39147_0975.N1	25-AUG-2009 22:51:17	Dark	60.000	14	58Alp Ori	0.87000	3000.0	120	39147	No
242	GOM_NL__2PRFIN20090825_225302_000000612082_00015_39147_0976.N1	25-AUG-2009 22:53:02	Dark	61.000	27	24Gam Ori	1.6360	26000.	122	39147	No
243	GOM_NL__2PRFIN20090825_225500_000000602082_00015_39147_0977.N1	25-AUG-2009 22:55:00	Dark	59.500	30	46Eps Ori	1.6940	30000.	119	39147	No
244	GOM_NL__2PRFIN20090825_225657_000000522082_00015_39147_0978.N1	25-AUG-2009 22:56:57	Dark	51.500	56	53Kap Ori	2.0650	30000.	103	39147	No
245	GOM_NL__2PRFIN20090825_225833_000000682082_00015_39147_0979.N1	25-AUG-2009 22:58:33	Dark	67.500	7	19Bet Ori	0.10000	14000.	135	39147	No
246	GOM_NL__2PRFIN20090825_230101_000000522082_00015_39147_0980.N1	25-AUG-2009 23:01:01	Dark	51.500	139	9Bet Lep	2.8330	5600.0	103	39147	No
247	GOM_NL__2PRFIN20090825_231449_000000532082_00016_39148_0974.N1	25-AUG-2009 23:14:49	Dark	52.500	157	The1Eri	2.9060	9300.0	105	39148	No
248	GOM_NL__2PRFIN20090825_232335_000000512082_00016_39148_0975.N1	25-AUG-2009 23:23:35	Straylight	51.000	84	Alp Phe	2.3970	4500.0	102	39148	No
249	GOM_NL__2PRFIN20090825_233012_000000482082_00016_39148_0976.N1	25-AUG-2009 23:30:12	Straylight	48.000	18	24Alp PsA	1.1660	9700.0	96	39148	No
250	GOM_NL__2PRFIN20090825_234008_000000422082_00016_39148_0977.N1	25-AUG-2009 23:40:08	Bright	41.500	162	34Alp Aqr	2.9440	5350.0	83	39148	No
251	GOM_NL__2PRFIN20090825_234311_000000412082_00016_39148_0978.N1	25-AUG-2009 23:43:11	Bright	40.500	61	8Eps Peg	2.1000	3900.0	81	39148	No
252	GOM_NL__2PRFIN20090825_235059_000000452082_00016_39148_0979.N1	25-AUG-2009 23:50:59	Bright	44.500	164	44Eta Peg	2.9480	5400.0	89	39148	No

3. Quality information per product

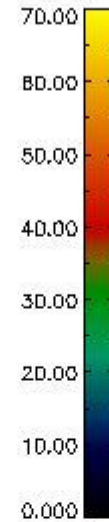
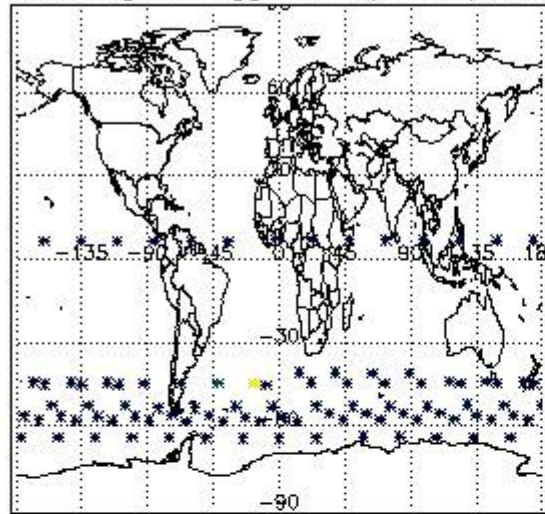
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

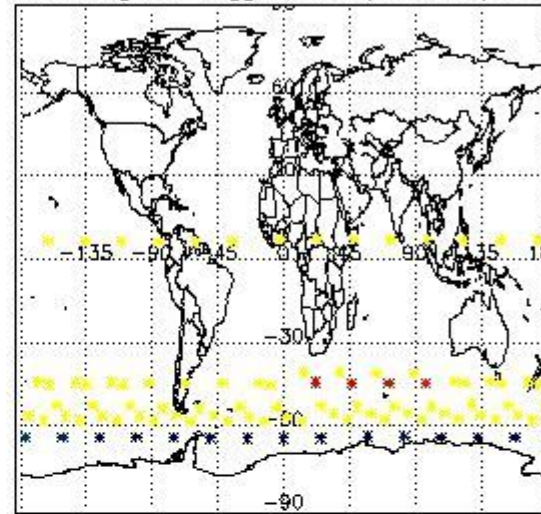


3.2 Plot quality information per product (world map)

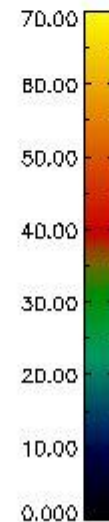
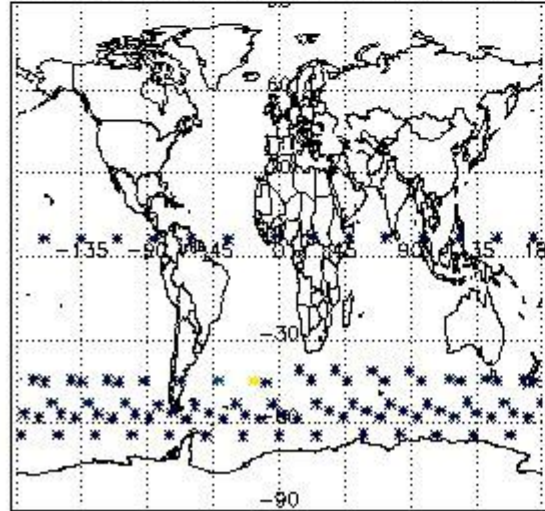
Percentage of flagged data per O3 profile



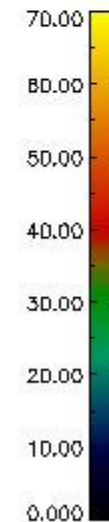
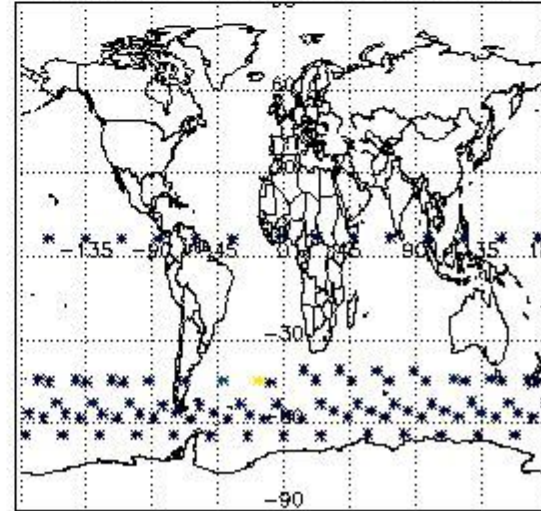
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

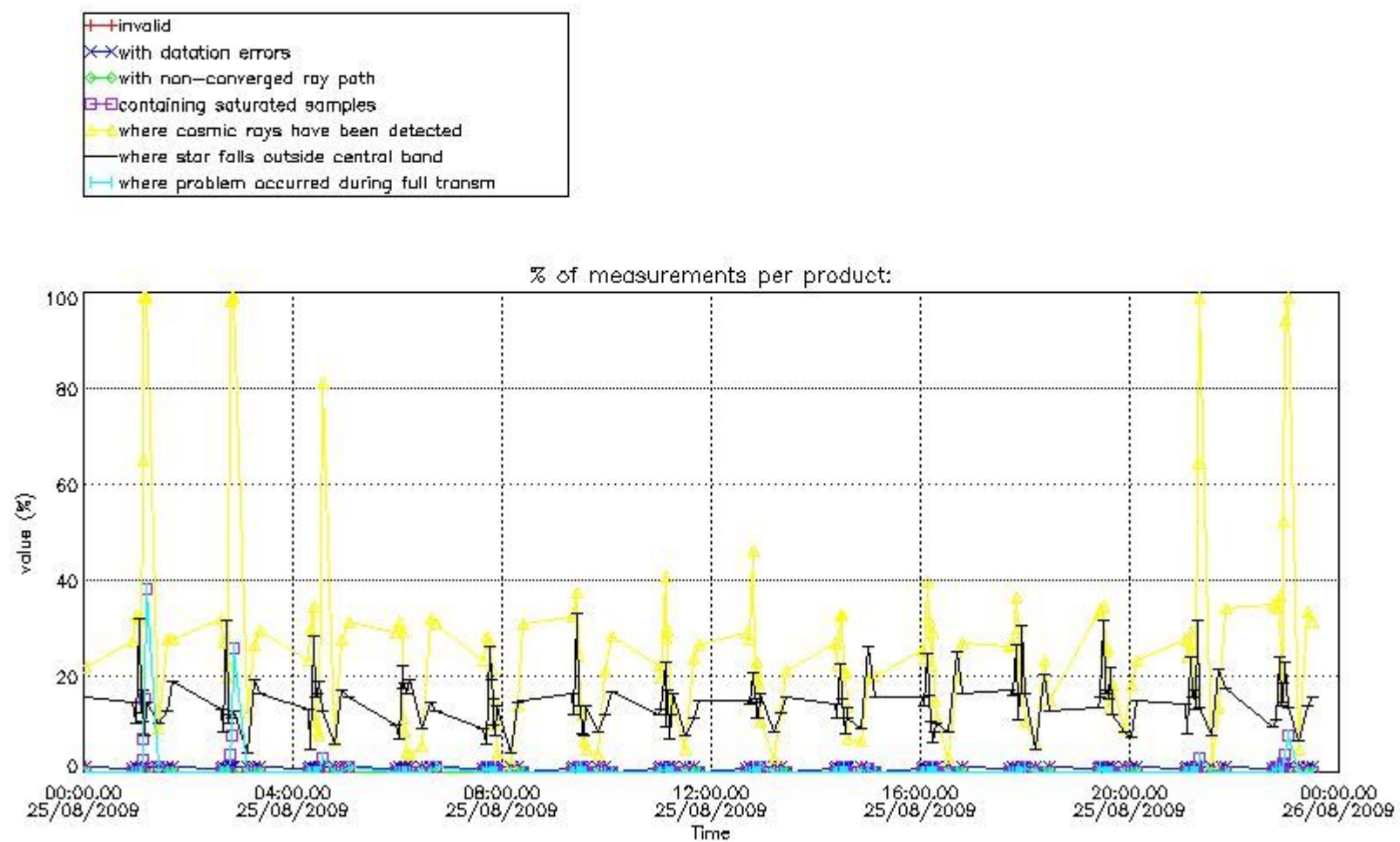


4. Level 1 quality information per product

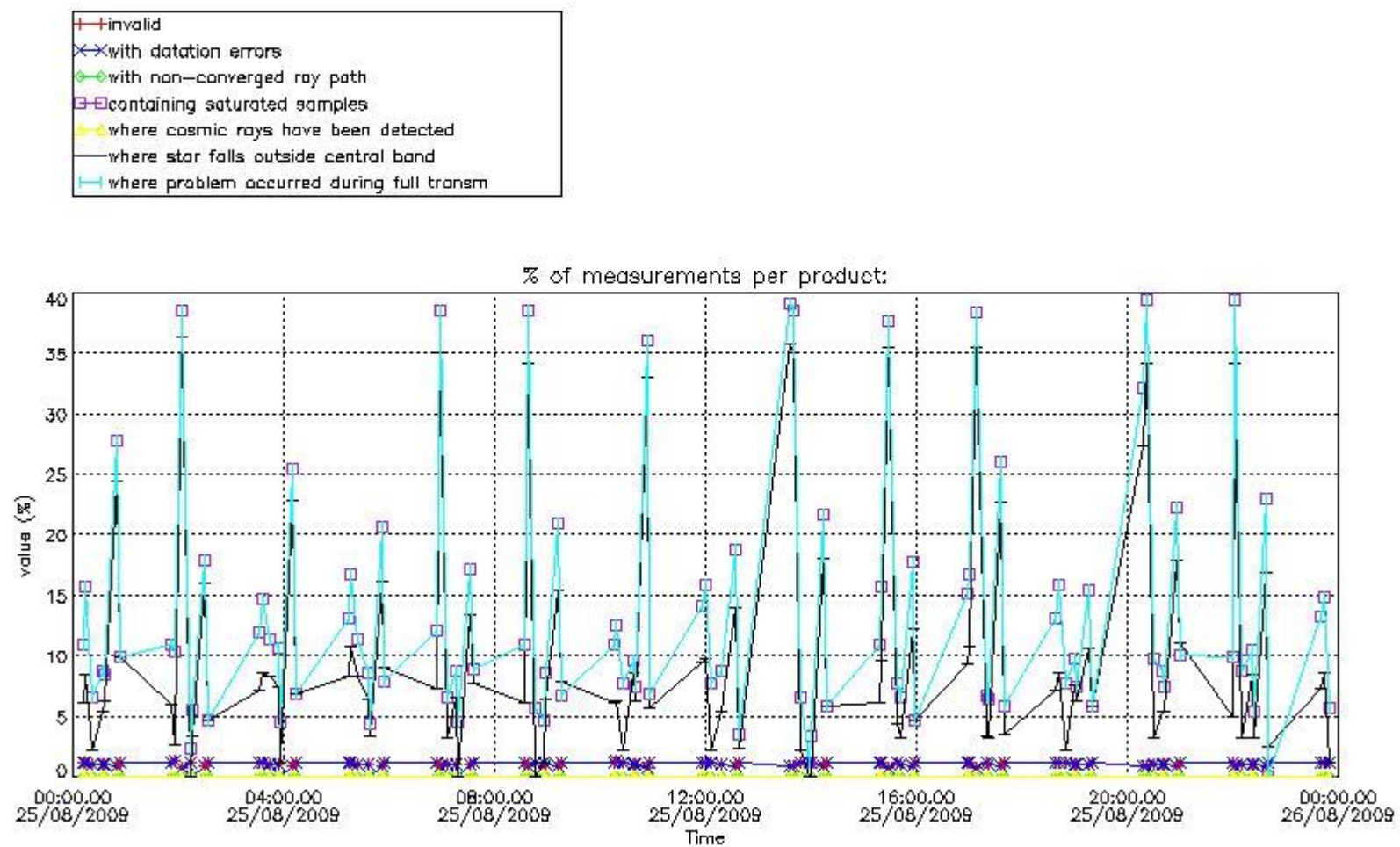
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

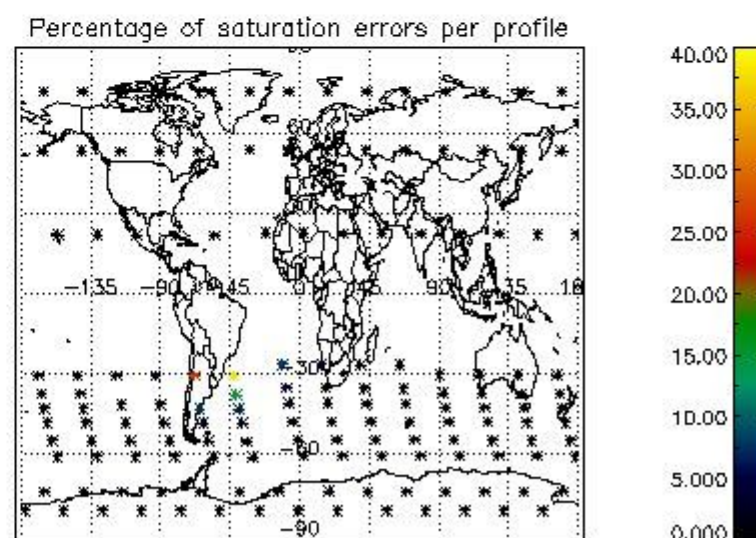
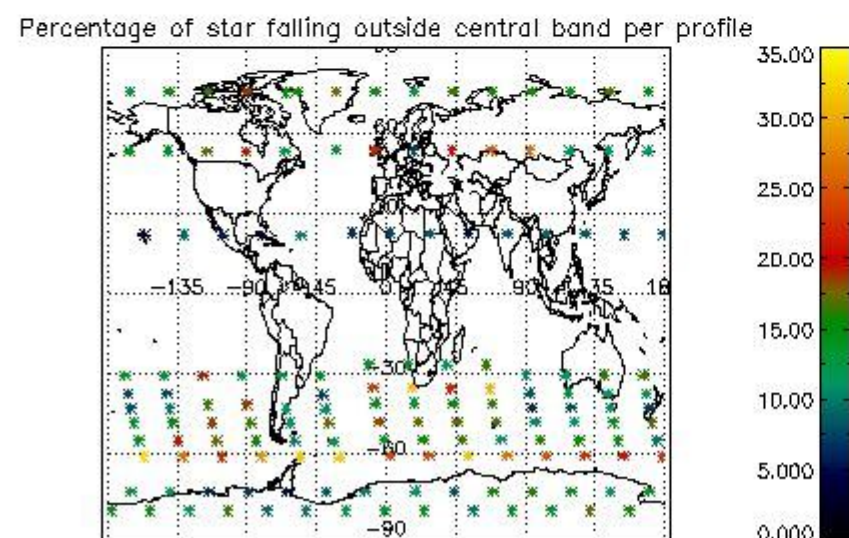
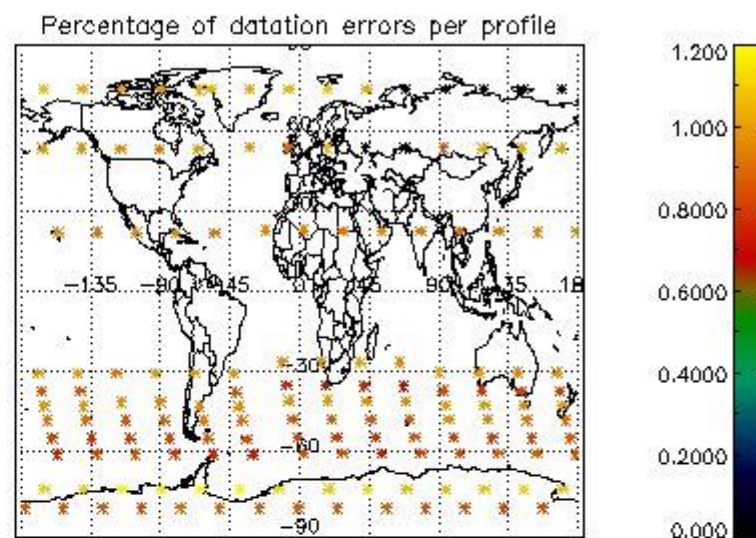
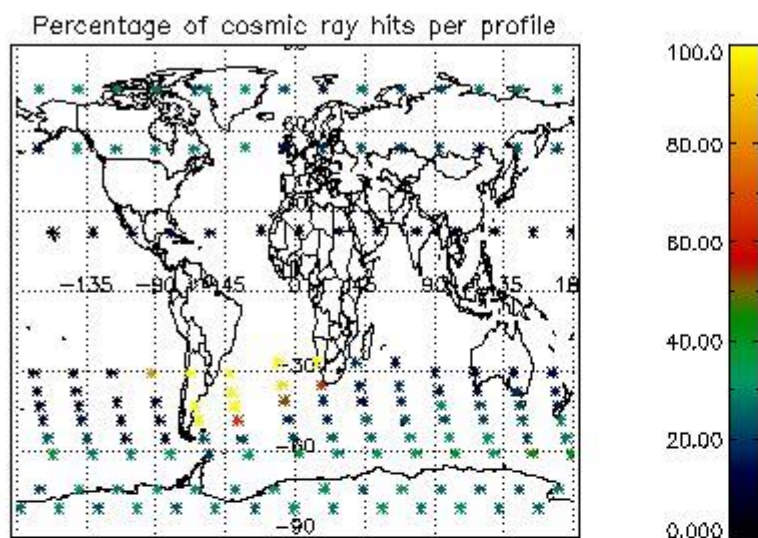


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

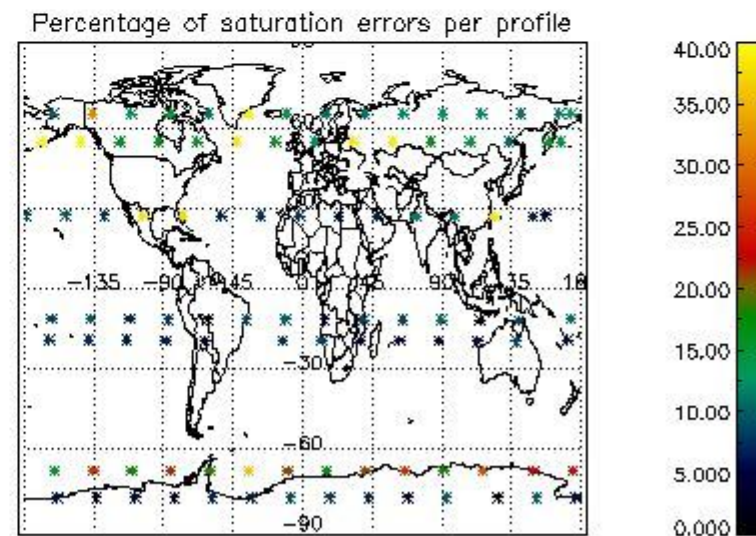
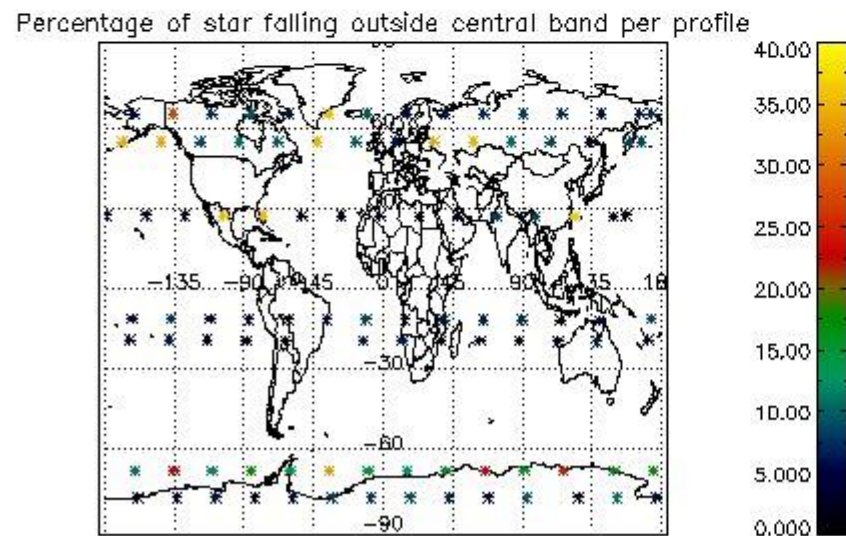
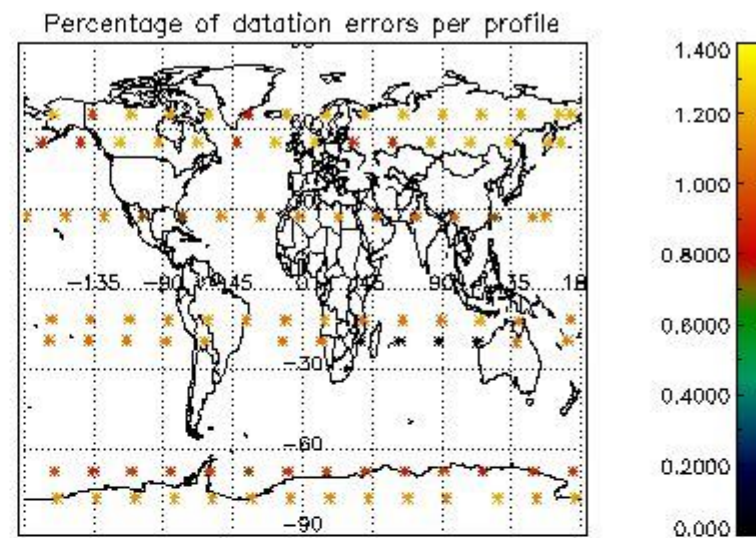
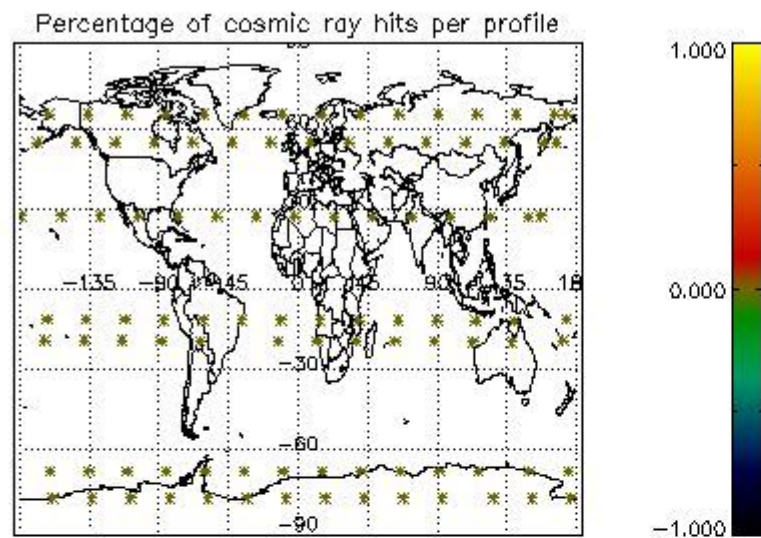


4.2 Plot quality information per product coming from level 1b processing (world map)

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

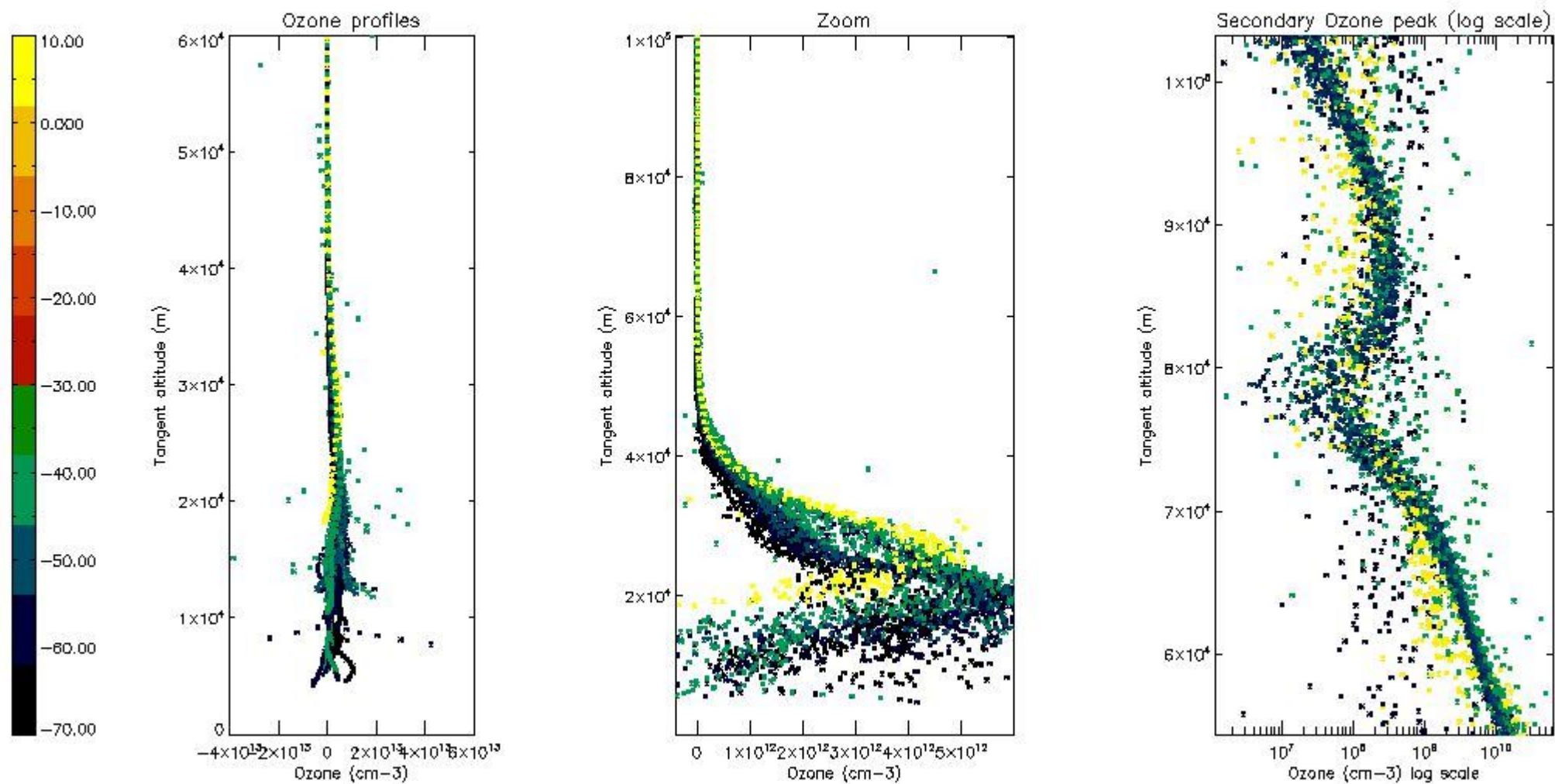
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	42
STD < 20	22

STD < 10	18
STD < 5	11

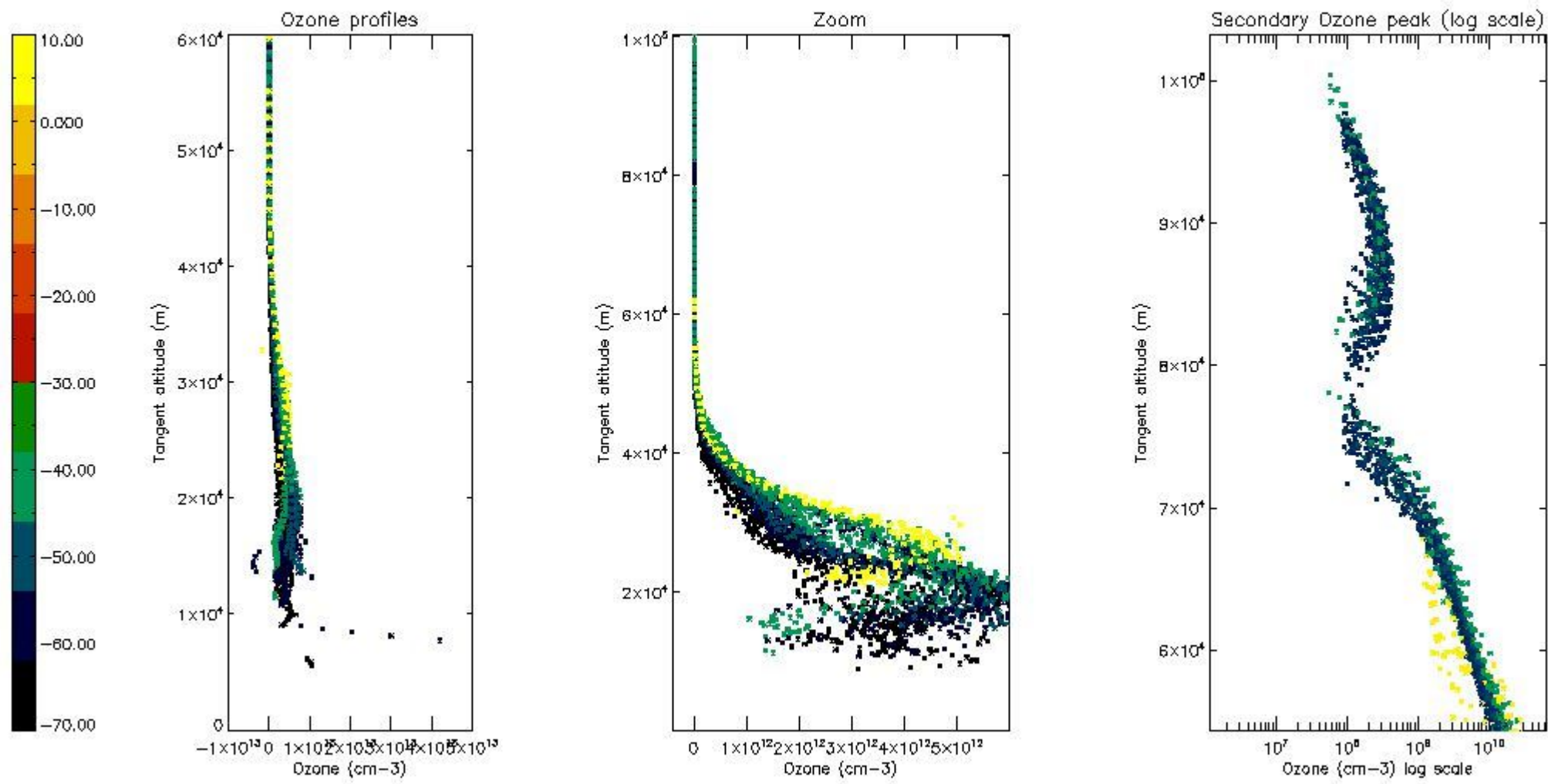
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



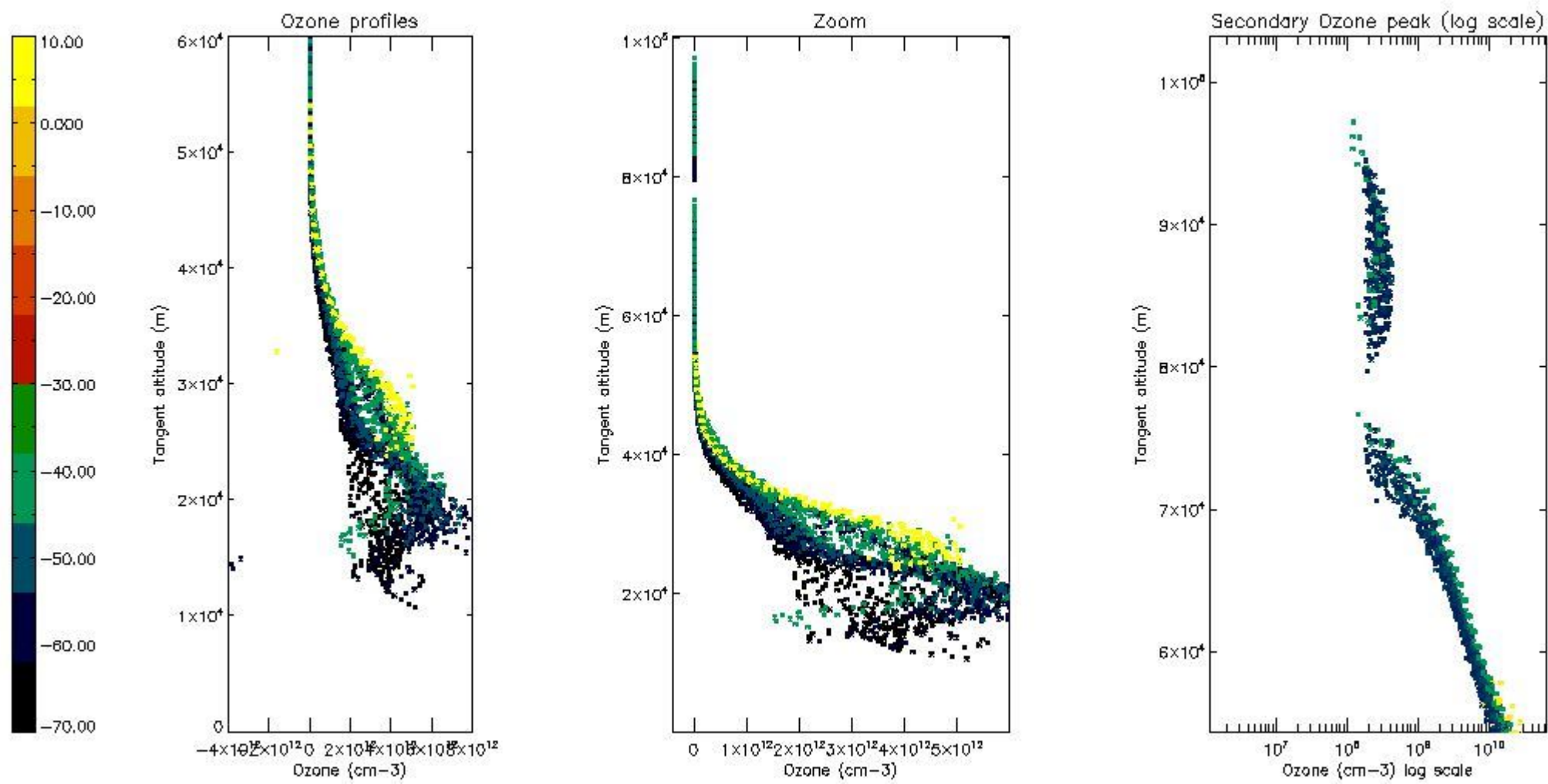
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



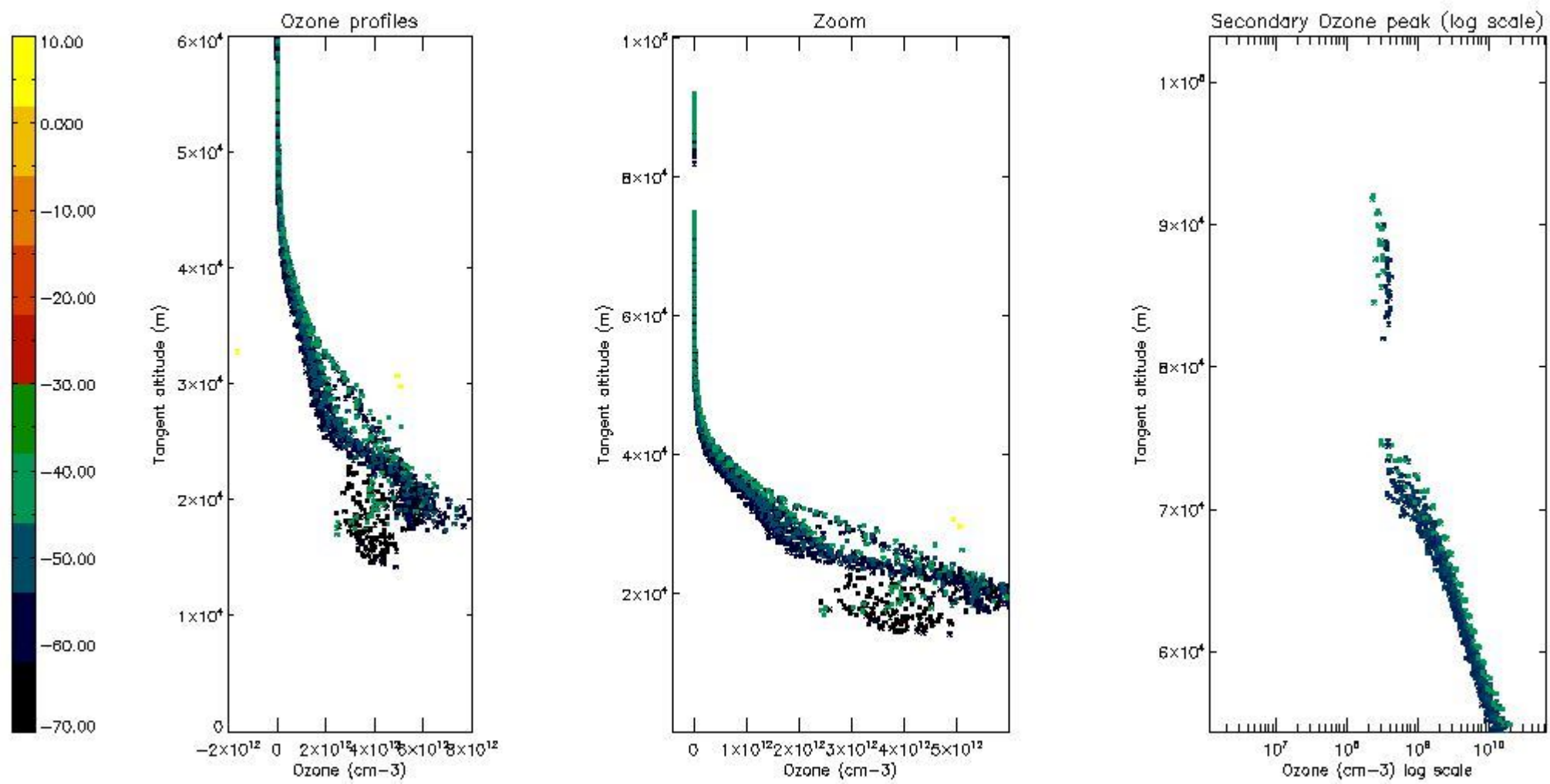
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



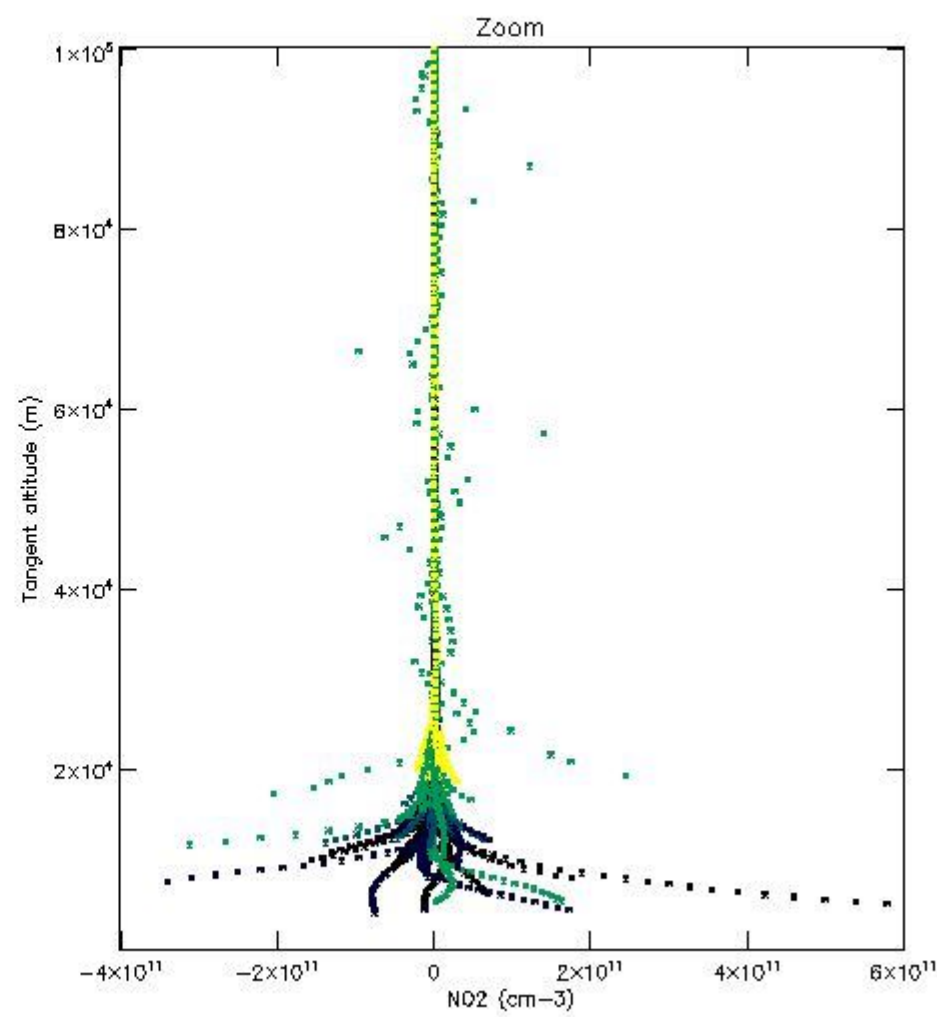
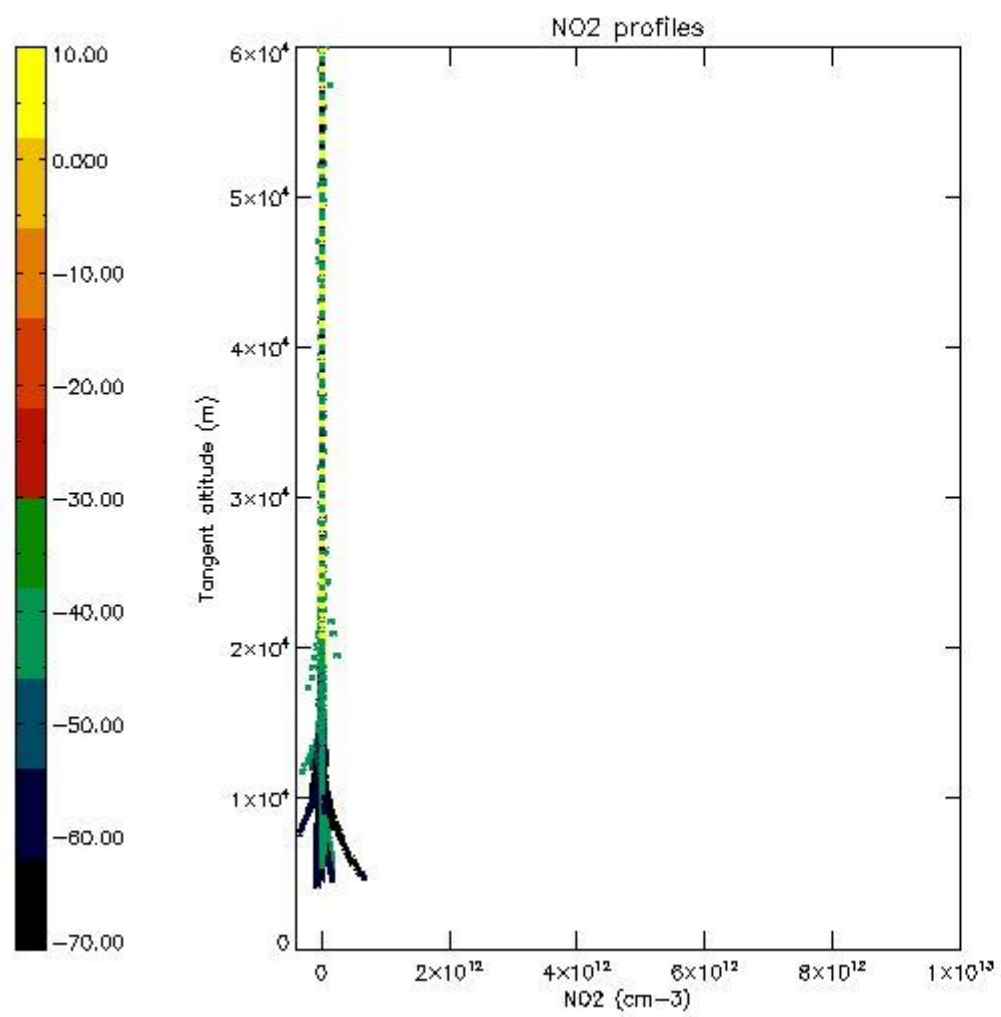
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



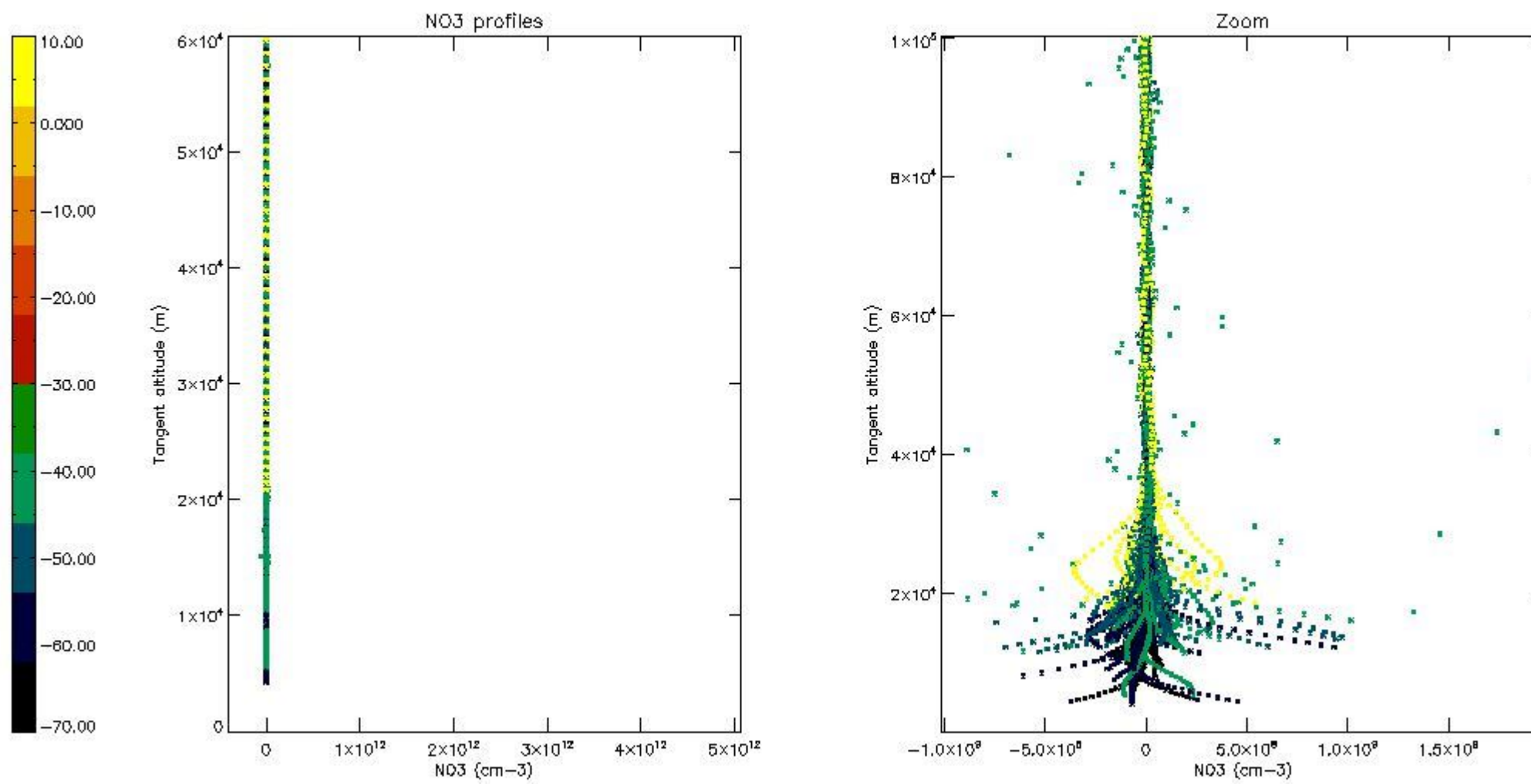
5.6 Plot NO₂ profiles for all STD (dark without errors)

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	25-AUG-2009 00:01:44
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	25-AUG-2009 00:01:44
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	25-AUG-2009 00:01:44

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

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

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

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

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

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

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

[4.2 Plot of level 1 quality information per product \(world map\)](#)

[4.2.1 Plot of level 1 quality information per product \(world map\): ASCENDING](#)

[4.2.2 Plot of level 1 quality information per product \(world map\): DESCENDING](#)

[5. Ozone profiles based on quality statistics and other trace gas profiles](#)

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

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

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

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

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

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

[5.7 Plot NO3 profiles for all STD \(dark without errors\)](#)

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

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

This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	26APR2013 12:10:06
Data source version	GOMOS/6.01
Start time of products	25-08-2009 (25AUG2009 00:00:00)
Stop time of products	26-08-2009 (26AUG2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	252
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

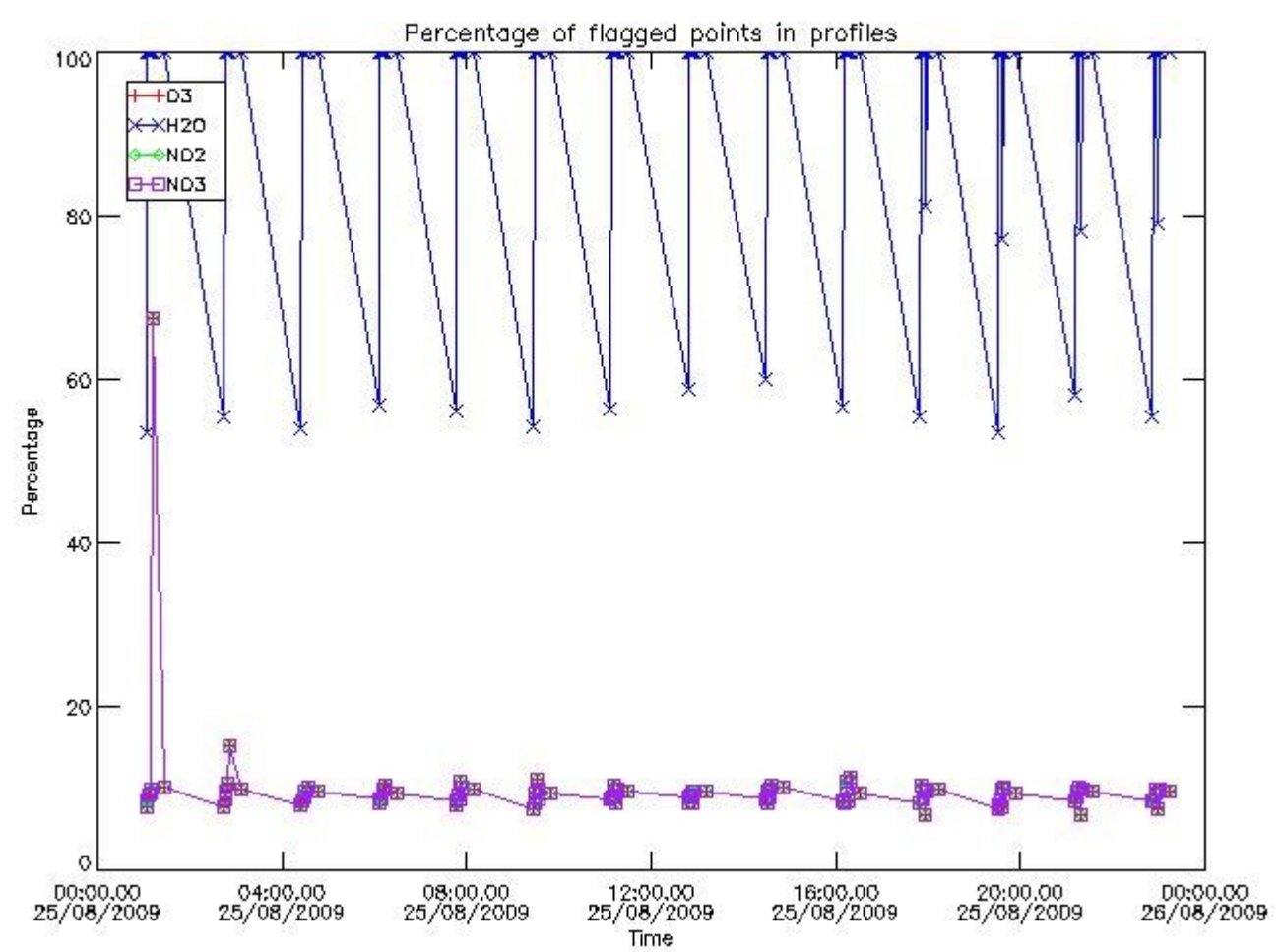
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090825_000144_000000492082_00002_39134_0853.N1	25-AUG-2009 00:01:44	Straylight	48.500	18	24Alp PsA	1.1660	9700.0	97	39134	No
2	GOM_NL__2PRFIN20090825_001146_000000412082_00002_39134_0854.N1	25-AUG-2009 00:11:46	Bright	41.000	162	34Alp Aqr	2.9440	5350.0	82	39134	No
3	GOM_NL__2PRFIN20090825_001450_000000422082_00002_39134_0855.N1	25-AUG-2009 00:14:50	Bright	41.500	61	8Eps Peg	2.1000	3900.0	83	39134	No
4	GOM_NL__2PRFIN20090825_002246_000000462082_00002_39134_0856.N1	25-AUG-2009 00:22:46	Bright	46.000	164	44Eta Peg	2.9480	5400.0	92	39134	No
5	GOM_NL__2PRFIN20090825_003336_000000462082_00002_39134_0857.N1	25-AUG-2009 00:33:36	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	39134	No
6	GOM_NL__2PRFIN20090825_003549_000000482082_00002_39134_0858.N1	25-AUG-2009 00:35:49	Bright	47.500	76	27Gam Cas	2.3000	30000.	95	39134	No
7	GOM_NL__2PRFIN20090825_004942_000000602082_00002_39134_0859.N1	25-AUG-2009 00:49:42	Bright	59.500	6	13Alp Aur	0.080000	3400.0	119	39134	No
8	GOM_NL__2PRFIN20090825_005300_000000462082_00002_39134_0860.N1	25-AUG-2009 00:53:00	Bright	45.500	107	37The Aur	2.6490	11000.	91	39134	No
9	GOM_NL__2PRFIN20090825_005625_000000592082_00002_39134_0861.N1	25-AUG-2009 00:56:25	Twilight	59.000	28	12Bet Tau	1.6500	15200.	118	39134	No
10	GOM_NL__2PRFIN20090825_005922_000000452082_00002_39134_0862.N1	25-AUG-2009 00:59:22	Twilight	44.500	44	24Gam Gem	1.9280	11000.	89	39134	No
11	GOM_NL__2PRFIN20090825_010322_000000672082_00002_39134_0863.N1	25-AUG-2009 01:03:22	Dark	67.000	14	58Alp Ori	0.87000	3000.0	134	39134	No
12	GOM_NL__2PRFIN20090825_010504_000000602082_00002_39134_0864.N1	25-AUG-2009 01:05:04	Dark	60.000	27	24Gam Ori	1.6360	26000.	120	39134	No
13	GOM_NL__2PRFIN20090825_010701_000000562082_00002_39134_0865.N1	25-AUG-2009 01:07:01	Dark	56.000	33	50Zet Ori	1.7660	30000.	112	39134	No
14	GOM_NL__2PRFIN20090825_010831_000000522082_00002_39134_0866.N1	25-AUG-2009 01:08:31	Dark	52.000	125	44Iot Ori	2.7700	30000.	104	39134	No
15	GOM_NL__2PRFIN20090825_011003_000000602082_00002_39134_0867.N1	25-AUG-2009 01:10:03	Dark	59.500	128	67Bet Eri	2.7840	9700.0	119	39134	No
16	GOM_NL__2PRFIN20090825_011201_000000512082_00002_39134_0868.N1	25-AUG-2009 01:12:01	Dark	51.000	101	11Alp Lep	2.5820	7000.0	102	39134	No
17	GOM_NL__2PRFIN20090825_012646_000000552082_00003_39135_0867.N1	25-AUG-2009 01:26:46	Dark	55.000	157	The1Eri	2.9060	9300.0	110	39135	No
18	GOM_NL__2PRFIN20090825_013539_000000512082_00003_39135_0868.N1	25-AUG-2009 01:35:39	Straylight	50.500	84	Alp Phe	2.3970	4500.0	101	39135	No
19	GOM_NL__2PRFIN20090825_014220_000000512082_00003_39135_0869.N1	25-AUG-2009 01:42:20	Straylight	50.500	18	24Alp PsA	1.1660	9700.0	101	39135	No
20	GOM_NL__2PRFIN20090825_015222_000000422082_00003_39135_0870.N1	25-AUG-2009 01:52:22	Bright	41.500	162	34Alp Aqr	2.9440	5350.0	83	39135	No
21	GOM_NL__2PRFIN20090825_015525_000000392082_00003_39135_0871.N1	25-AUG-2009 01:55:25	Bright	39.000	61	8Eps Peg	2.1000	3900.0	78	39135	No
22	GOM_NL__2PRFIN20090825_020321_000000702082_00003_39135_0872.N1	25-AUG-2009 02:03:21	Bright	70.000	164	44Eta Peg	2.9480	5400.0	140	39135	No
23	GOM_NL__2PRFIN20090825_021411_000000422082_00003_39135_0873.N1	25-AUG-2009 02:14:11	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	39135	No
24	GOM_NL__2PRFIN20090825_021624_000000462082_00003_39135_0874.N1	25-AUG-2009 02:16:24	Bright	45.500	76	27Gam Cas	2.3000	30000.	91	39135	No
25	GOM_NL__2PRFIN20090825_023018_000000532082_00003_39135_0875.N1	25-AUG-2009 02:30:18	Bright	53.000	6	13Alp Aur	0.080000	3400.0	106	39135	No
26	GOM_NL__2PRFIN20090825_023336_000000432082_00003_39135_0876.N1	25-AUG-2009 02:33:36	Bright	43.000	107	37The Aur	2.6490	11000.	86	39135	No
27	GOM_NL__2PRFIN20090825_023701_000000582082_00003_39135_0877.N1	25-AUG-2009 02:37:01	Twilight	58.000	28	12Bet Tau	1.6500	15200.	116	39135	No
28	GOM_NL__2PRFIN20090825_023958_000000422082_00003_39135_0878.N1	25-AUG-2009 02:39:58	Twilight	42.000	44	24Gam Gem	1.9280	11000.	84	39135	No
29	GOM_NL__2PRFIN20090825_024359_000000672082_00003_39135_0879.N1	25-AUG-2009 02:43:59	Dark	66.500	14	58Alp Ori	0.87000	3000.0	133	39135	No
30	GOM_NL__2PRFIN20090825_024540_000000592082_00003_39135_0880.N1	25-AUG-2009 02:45:40	Dark	58.500	27	24Gam Ori	1.6360	26000.	117	39135	No
31	GOM_NL__2PRFIN20090825_024738_000000542082_00003_39135_0881.N1	25-AUG-2009 02:47:38	Dark	53.500	33	50Zet Ori	1.7660	30000.	107	39135	No
32	GOM_NL__2PRFIN20090825_024908_000000532082_00003_39135_0882.N1	25-AUG-2009 02:49:08	Dark	52.500	125	44Iot Ori	2.7700	30000.	105	39135	No
33	GOM_NL__2PRFIN20090825_025238_000000512082_00003_39135_0883.N1	25-AUG-2009 02:52:38	Dark	50.500	101	11Alp Lep	2.5820	7000.0	101	39135	No
34	GOM_NL__2PRFIN20090825_030723_000000522082_00004_39136_0879.N1	25-AUG-2009 03:07:23	Dark	52.000	157	The1Eri	2.9060	9300.0	104	39136	No
35	GOM_NL__2PRFIN20090825_031616_000000552082_00004_39136_0880.N1	25-AUG-2009 03:16:16	Straylight	54.500	84	Alp Phe	2.3970	4500.0	109	39136	No
36	GOM_NL__2PRFIN20090825_032257_000000492082_00004_39136_0881.N1	25-AUG-2009 03:22:57	Straylight	49.000	18	24Alp PsA	1.1660	9700.0	98	39136	No
37	GOM_NL__2PRFIN20090825_033258_000000422082_00004_39136_0882.N1	25-AUG-2009 03:32:58	Bright	42.000	162	34Alp Aqr	2.9440	5350.0	84	39136	No
38	GOM_NL__2PRFIN20090825_033601_000000412082_00004_39136_0883.N1	25-AUG-2009 03:36:01	Bright	41.000	61	8Eps Peg	2.1000	3900.0	82	39136	No
39	GOM_NL__2PRFIN20090825_034356_000000492082_00004_39136_0884.N1	25-AUG-2009 03:43:56	Bright	48.500	164	44Eta Peg	2.9480	5400.0	97	39136	No
40	GOM_NL__2PRFIN20090825_035446_000000472082_00004_39136_0885.N1	25-AUG-2009 03:54:46	Bright	47.000	74	11Bet Cas	2.2680	6600.0	94	39136	No
41	GOM_NL__2PRFIN20090825_035659_000000452082_00004_39136_0886.N1	25-AUG-2009 03:56:59	Bright	44.500	76	27Gam Cas	2.3000	30000.	89	39136	No
42	GOM_NL__2PRFIN20090825_041054_000000592082_00004_39136_0887.N1	25-AUG-2009 04:10:54	Bright	59.000	6	13Alp Aur	0.080000	3400.0	118	39136	No

220	GOM_NL__2PRFIN20090825_210012_000000452082_00014_39146_0972.N1	25-AUG-2009 21:00:12	Bright	45.000	107	37The Aur	2.6490	11000.	90	39146	No
221	GOM_NL__2PRFIN20090825_210339_000000602082_00014_39146_0973.N1	25-AUG-2009 21:03:39	Twilight	59.500	28	12Bet Tau	1.6500	15200.	119	39146	No
222	GOM_NL__2PRFIN20090825_210637_000000442082_00014_39146_0974.N1	25-AUG-2009 21:06:37	Twilight	44.000	44	24Gam Gem	1.9280	11000.	88	39146	No
223	GOM_NL__2PRFIN20090825_211041_000000602082_00014_39146_0975.N1	25-AUG-2009 21:10:41	Dark	60.000	14	58Alp Ori	0.87000	3000.0	120	39146	No
224	GOM_NL__2PRFIN20090825_211226_000000642082_00014_39146_0976.N1	25-AUG-2009 21:12:26	Dark	63.500	27	24Gam Ori	1.6360	26000.	127	39146	No
225	GOM_NL__2PRFIN20090825_211423_000000592082_00014_39146_0977.N1	25-AUG-2009 21:14:23	Dark	58.500	30	46Eps Ori	1.6940	30000.	117	39146	No
226	GOM_NL__2PRFIN20090825_211620_000000502082_00014_39146_0978.N1	25-AUG-2009 21:16:20	Dark	50.000	56	53Kap Ori	2.0650	30000.	100	39146	No
227	GOM_NL__2PRFIN20090825_211756_000000762082_00014_39146_0979.N1	25-AUG-2009 21:17:56	Dark	75.500	7	19Bet Ori	0.10000	14000.	151	39146	No
228	GOM_NL__2PRFIN20090825_212025_000000522082_00014_39146_0980.N1	25-AUG-2009 21:20:25	Dark	51.500	139	9Bet Lep	2.8330	5600.0	103	39146	No
229	GOM_NL__2PRFIN20090825_213412_000000532082_00015_39147_0963.N1	25-AUG-2009 21:34:12	Dark	53.000	157	The1Eri	2.9060	9300.0	106	39147	No
230	GOM_NL__2PRFIN20090825_214259_000000562082_00015_39147_0964.N1	25-AUG-2009 21:42:59	Straylight	55.500	84	Alp Phe	2.3970	4500.0	111	39147	No
231	GOM_NL__2PRFIN20090825_214936_000000492082_00015_39147_0965.N1	25-AUG-2009 21:49:36	Straylight	48.500	18	24Alp PsA	1.1660	9700.0	97	39147	No
232	GOM_NL__2PRFIN20090825_215932_000000412082_00015_39147_0966.N1	25-AUG-2009 21:59:32	Bright	40.500	162	34Alp Aqr	2.9440	5350.0	81	39147	No
233	GOM_NL__2PRFIN20090825_220235_000000572082_00015_39147_0967.N1	25-AUG-2009 22:02:35	Bright	57.000	61	8Eps Peg	2.1000	3900.0	114	39147	No
234	GOM_NL__2PRFIN20090825_221024_000000462082_00015_39147_0968.N1	25-AUG-2009 22:10:24	Bright	46.000	164	44Eta Peg	2.9480	5400.0	92	39147	No
235	GOM_NL__2PRFIN20090825_222114_000000482082_00015_39147_0969.N1	25-AUG-2009 22:21:14	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	39147	No
236	GOM_NL__2PRFIN20090825_222326_000000462082_00015_39147_0970.N1	25-AUG-2009 22:23:26	Bright	46.000	76	27Gam Cas	2.3000	30000.	92	39147	No
237	GOM_NL__2PRFIN20090825_223727_000000572082_00015_39147_0971.N1	25-AUG-2009 22:37:27	Bright	56.500	6	13Alp Aur	0.080000	3400.0	113	39147	No
238	GOM_NL__2PRFIN20090825_224047_000000422082_00015_39147_0972.N1	25-AUG-2009 22:40:47	Bright	41.500	107	37The Aur	2.6490	11000.	83	39147	No
239	GOM_NL__2PRFIN20090825_224415_000000582082_00015_39147_0973.N1	25-AUG-2009 22:44:15	Twilight	57.500	28	12Bet Tau	1.6500	15200.	115	39147	No
240	GOM_NL__2PRFIN20090825_224713_000000462082_00015_39147_0974.N1	25-AUG-2009 22:47:13	Twilight	45.500	44	24Gam Gem	1.9280	11000.	91	39147	No
241	GOM_NL__2PRFIN20090825_225117_000000602082_00015_39147_0975.N1	25-AUG-2009 22:51:17	Dark	60.000	14	58Alp Ori	0.87000	3000.0	120	39147	No
242	GOM_NL__2PRFIN20090825_225302_000000612082_00015_39147_0976.N1	25-AUG-2009 22:53:02	Dark	61.000	27	24Gam Ori	1.6360	26000.	122	39147	No
243	GOM_NL__2PRFIN20090825_225500_000000602082_00015_39147_0977.N1	25-AUG-2009 22:55:00	Dark	59.500	30	46Eps Ori	1.6940	30000.	119	39147	No
244	GOM_NL__2PRFIN20090825_225657_000000522082_00015_39147_0978.N1	25-AUG-2009 22:56:57	Dark	51.500	56	53Kap Ori	2.0650	30000.	103	39147	No
245	GOM_NL__2PRFIN20090825_225833_000000682082_00015_39147_0979.N1	25-AUG-2009 22:58:33	Dark	67.500	7	19Bet Ori	0.10000	14000.	135	39147	No
246	GOM_NL__2PRFIN20090825_230101_000000522082_00015_39147_0980.N1	25-AUG-2009 23:01:01	Dark	51.500	139	9Bet Lep	2.8330	5600.0	103	39147	No
247	GOM_NL__2PRFIN20090825_231449_000000532082_00016_39148_0974.N1	25-AUG-2009 23:14:49	Dark	52.500	157	The1Eri	2.9060	9300.0	105	39148	No
248	GOM_NL__2PRFIN20090825_232335_000000512082_00016_39148_0975.N1	25-AUG-2009 23:23:35	Straylight	51.000	84	Alp Phe	2.3970	4500.0	102	39148	No
249	GOM_NL__2PRFIN20090825_233012_000000482082_00016_39148_0976.N1	25-AUG-2009 23:30:12	Straylight	48.000	18	24Alp PsA	1.1660	9700.0	96	39148	No
250	GOM_NL__2PRFIN20090825_234008_000000422082_00016_39148_0977.N1	25-AUG-2009 23:40:08	Bright	41.500	162	34Alp Aqr	2.9440	5350.0	83	39148	No
251	GOM_NL__2PRFIN20090825_234311_000000412082_00016_39148_0978.N1	25-AUG-2009 23:43:11	Bright	40.500	61	8Eps Peg	2.1000	3900.0	81	39148	No
252	GOM_NL__2PRFIN20090825_235059_000000452082_00016_39148_0979.N1	25-AUG-2009 23:50:59	Bright	44.500	164	44Eta Peg	2.9480	5400.0	89	39148	No

3. Quality information per product

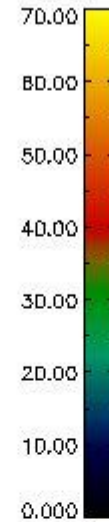
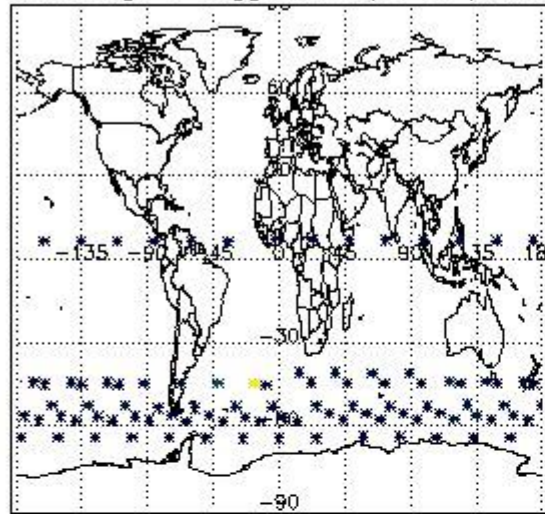
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

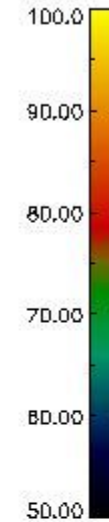
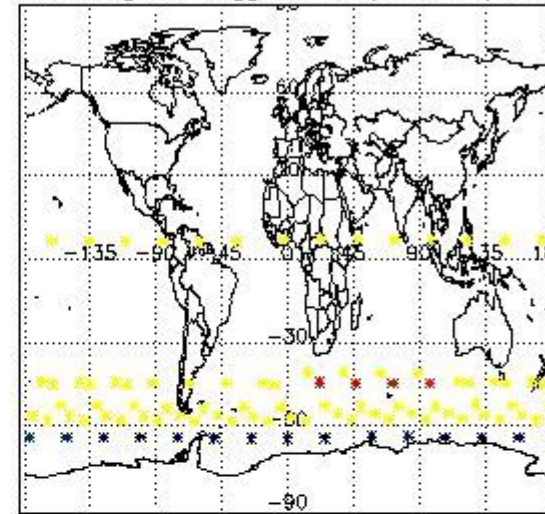


3.2 Plot quality information per product (world map)

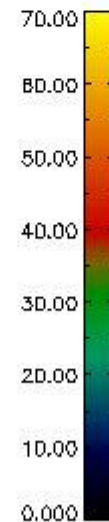
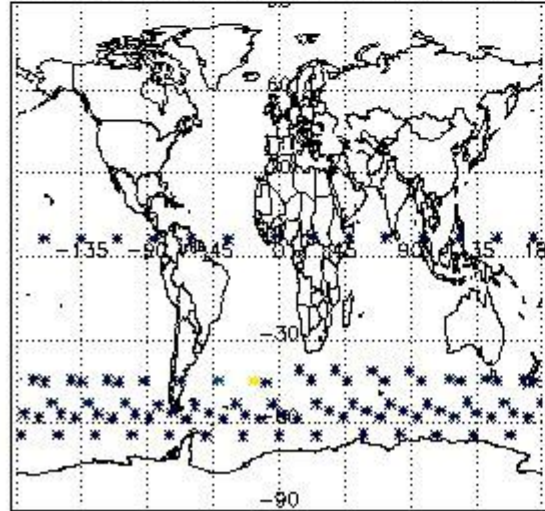
Percentage of flagged data per O3 profile



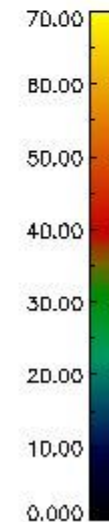
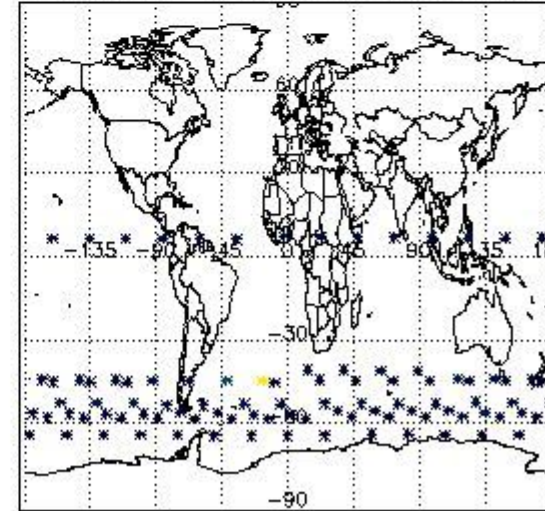
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

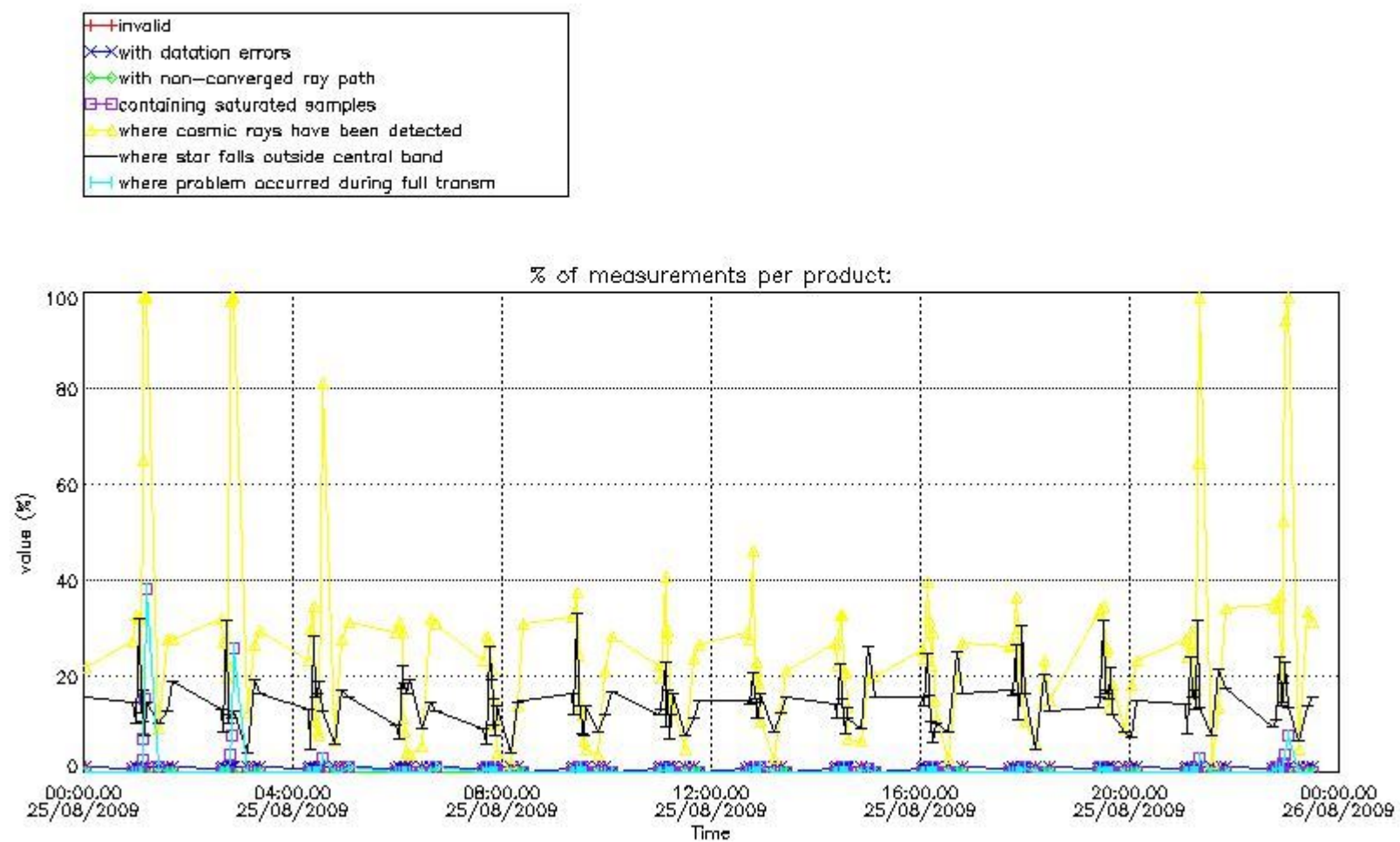


4. Level 1 quality information per product

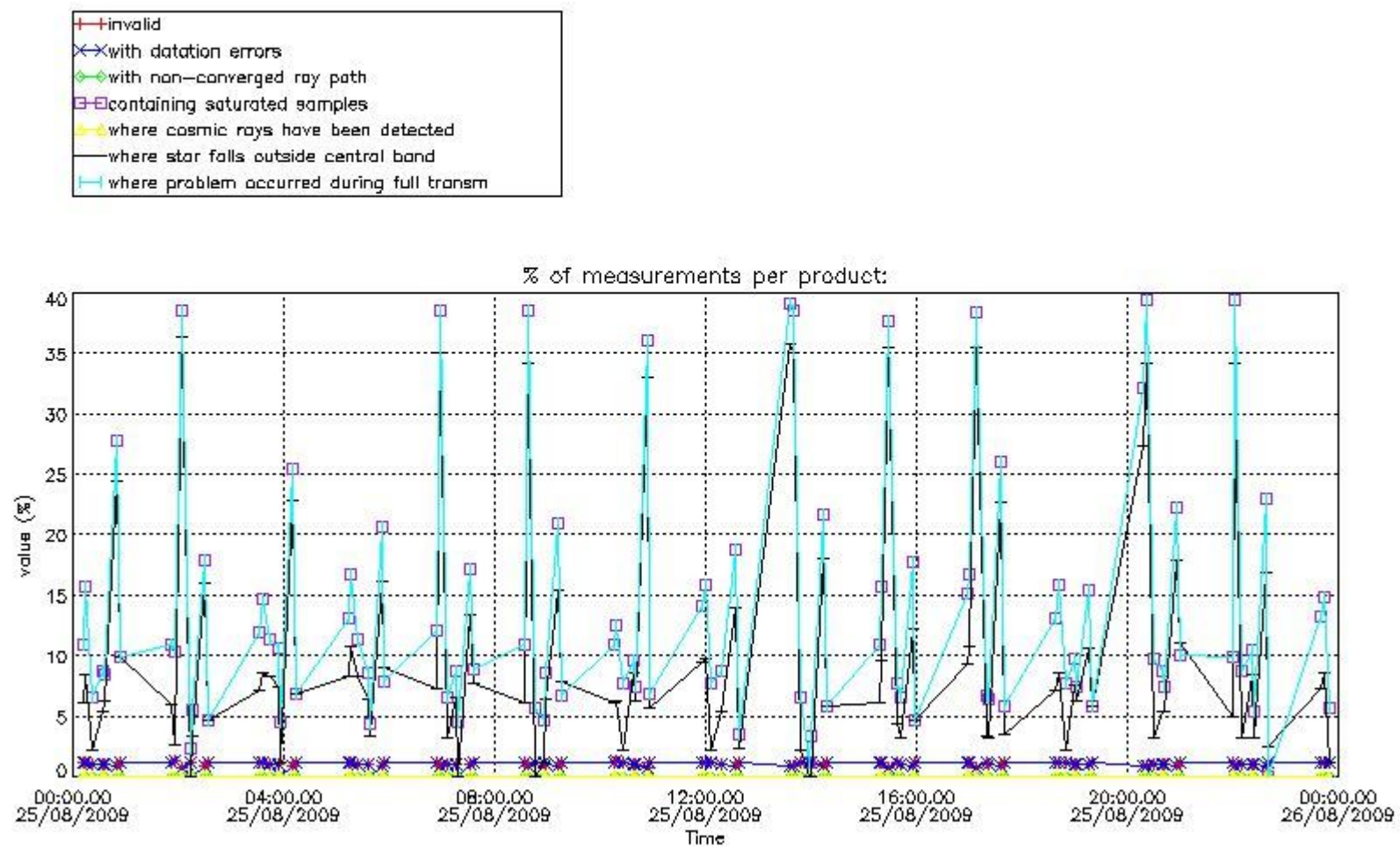
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

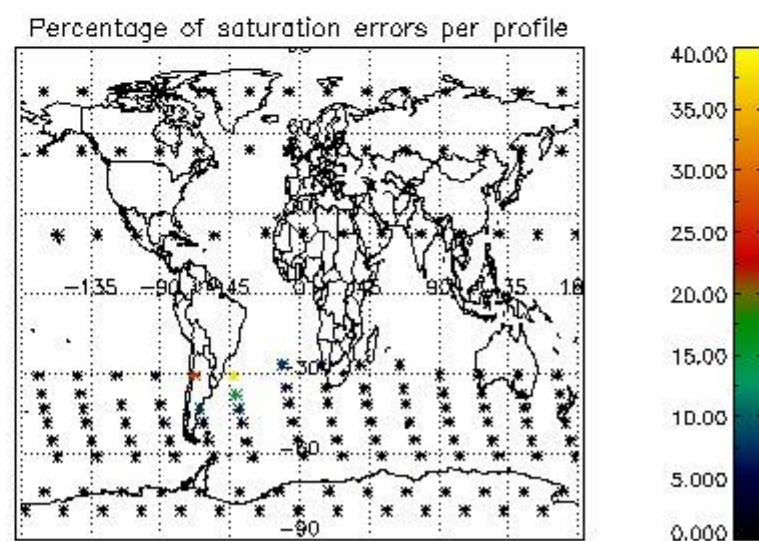
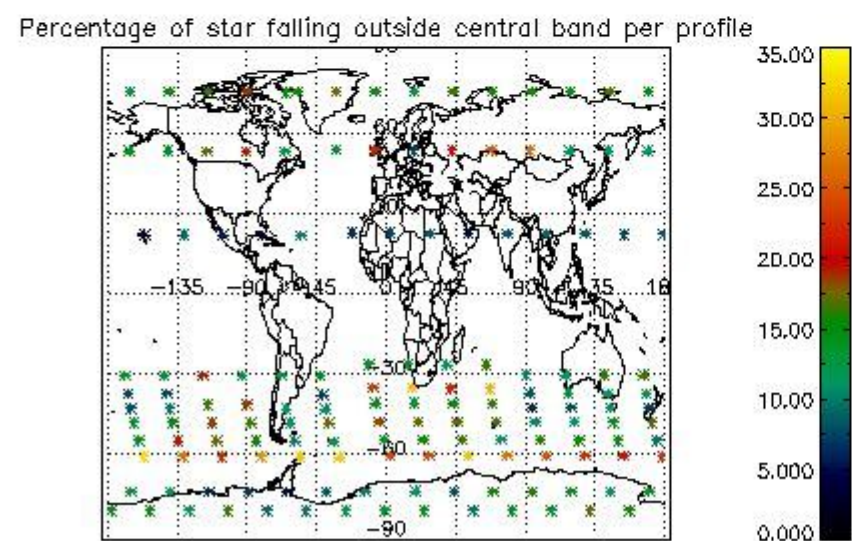
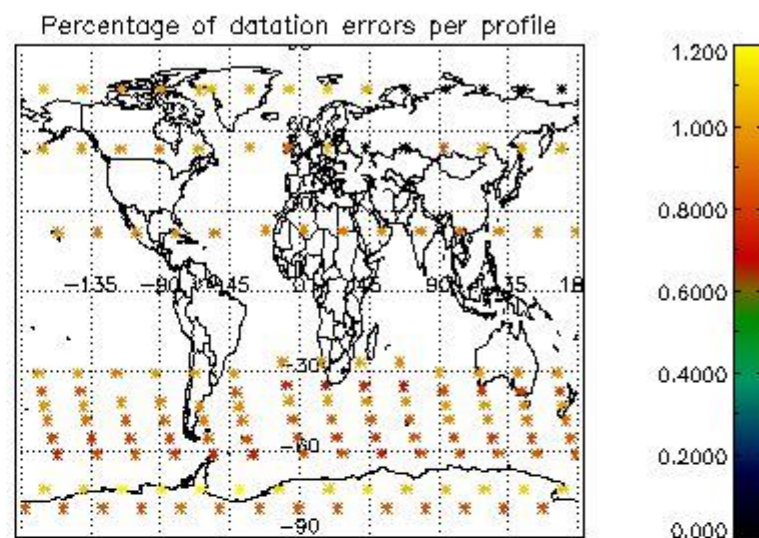
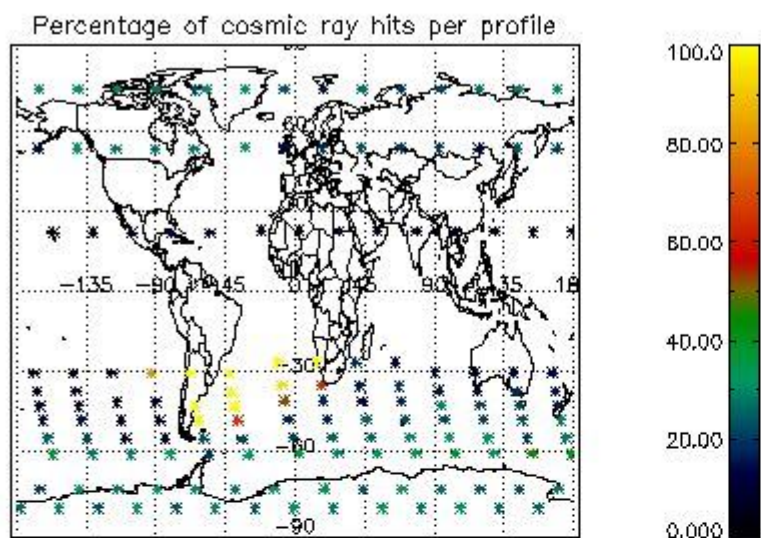


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

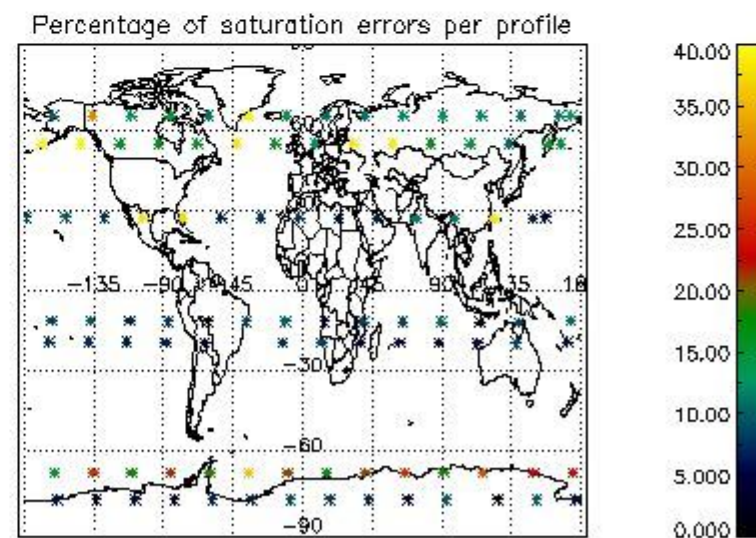
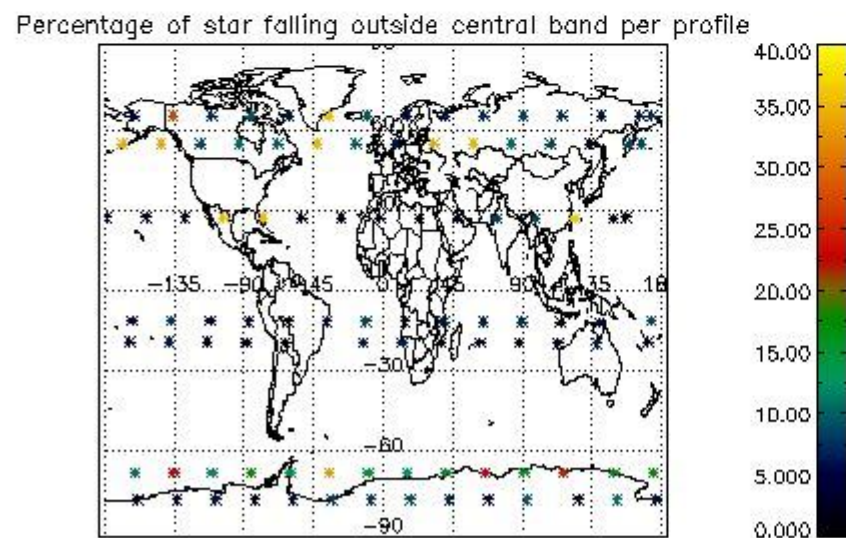
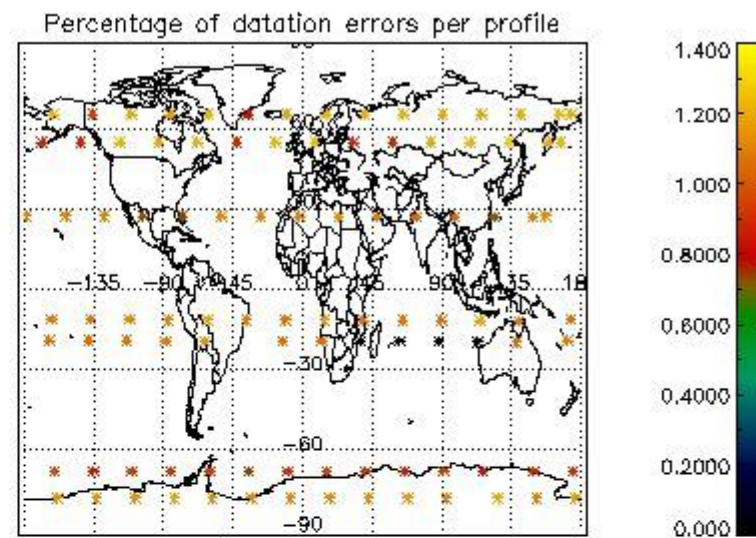
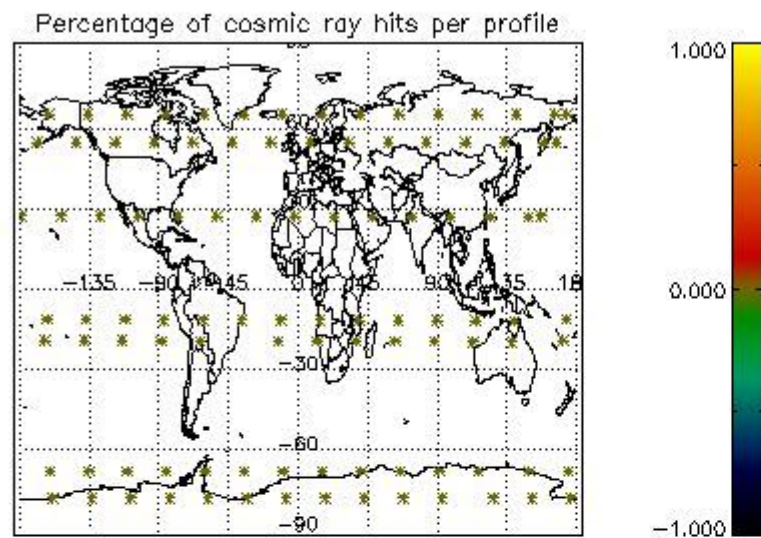


4.2 Plot quality information per product coming from level 1b processing (world map)

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

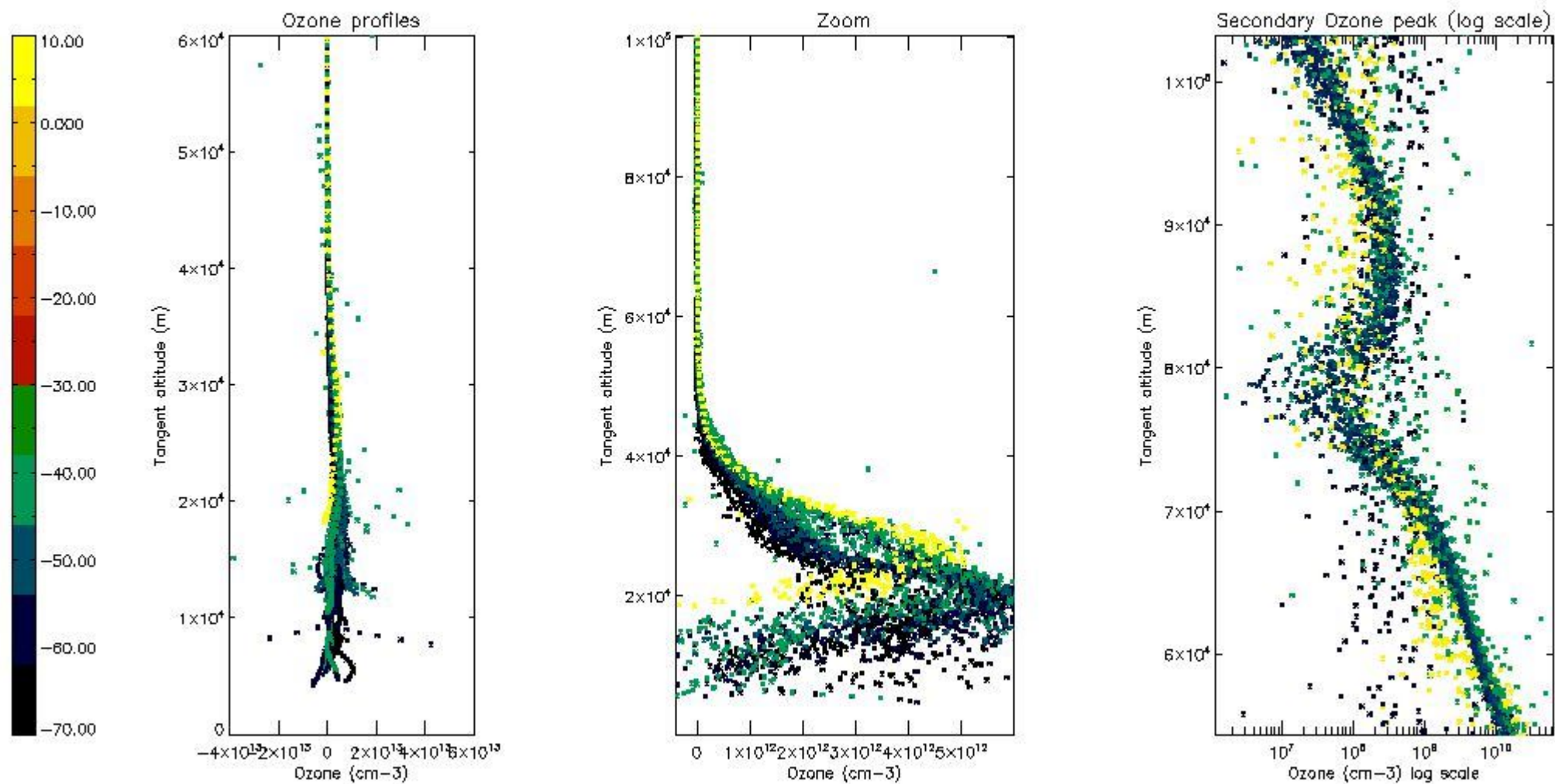
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	42
STD < 20	22

STD < 10	18
STD < 5	11

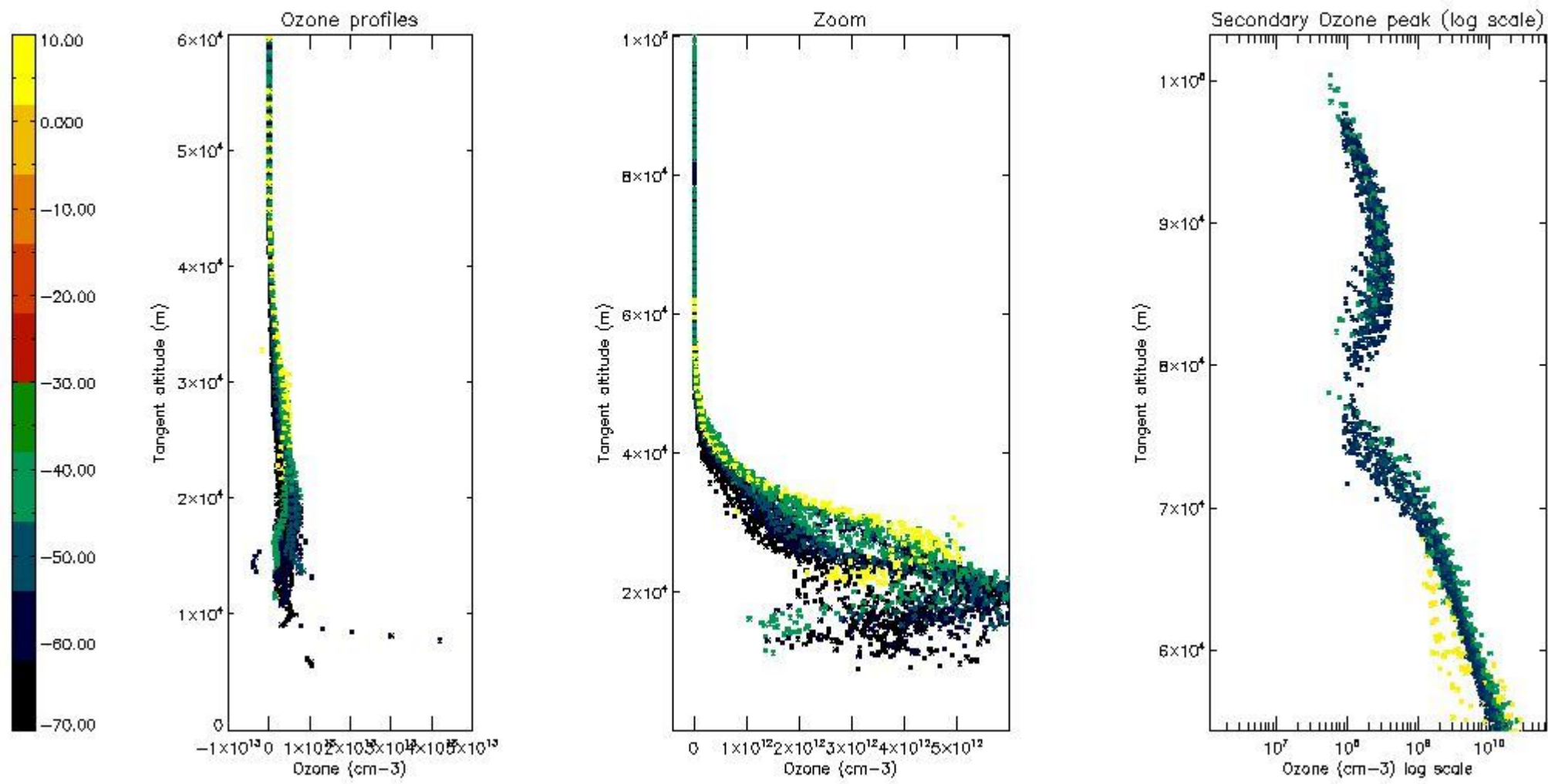
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



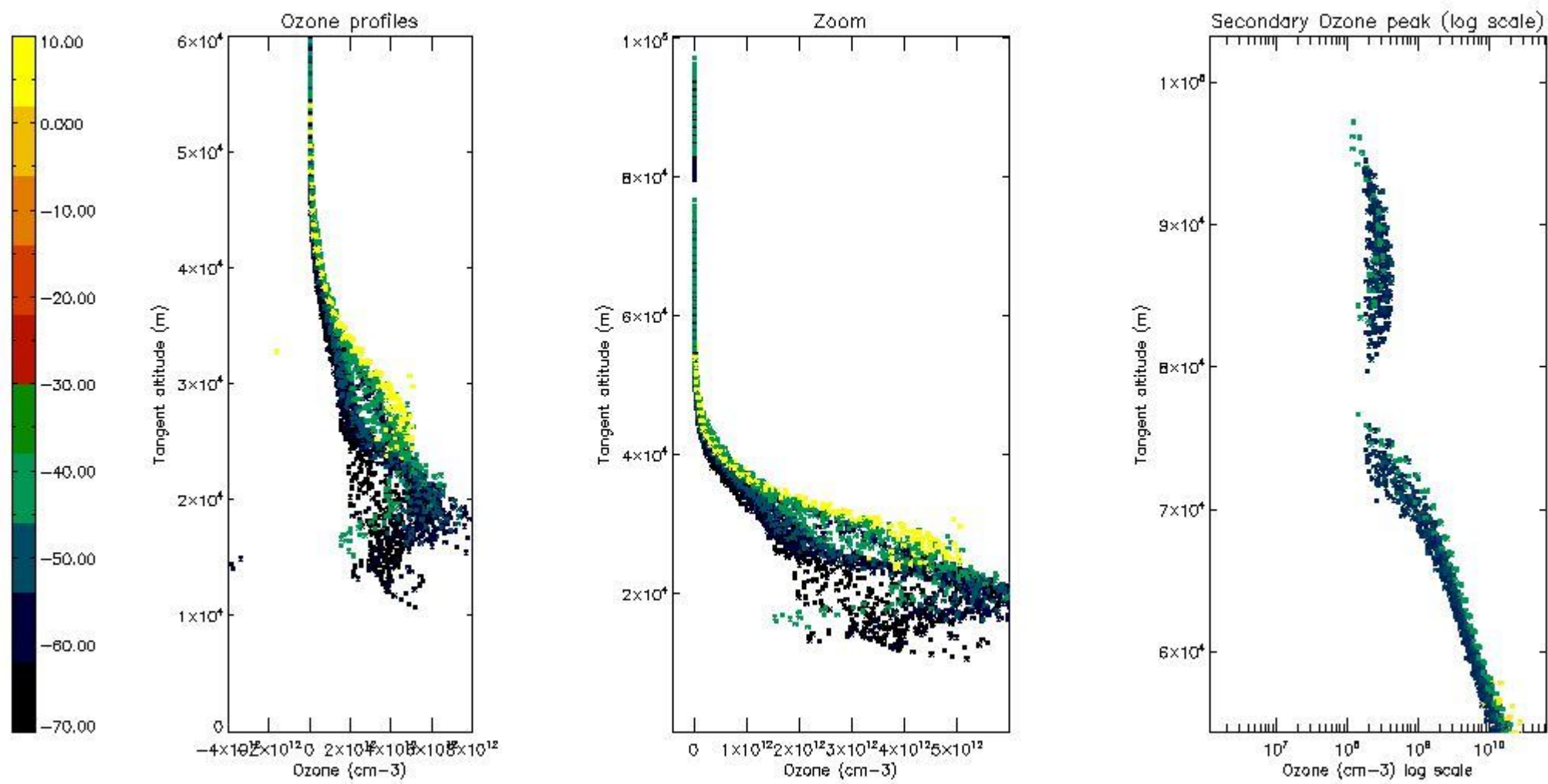
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



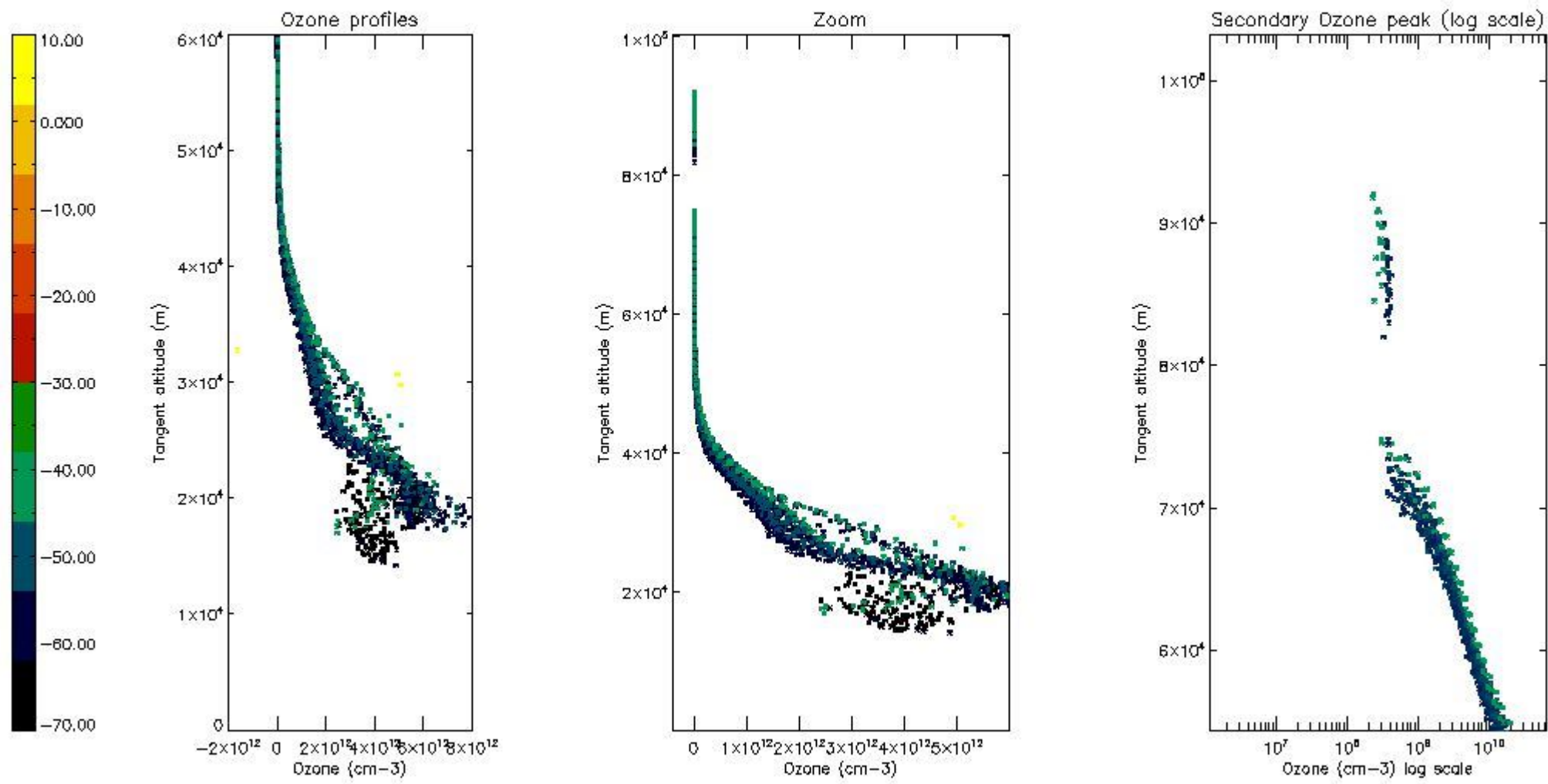
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



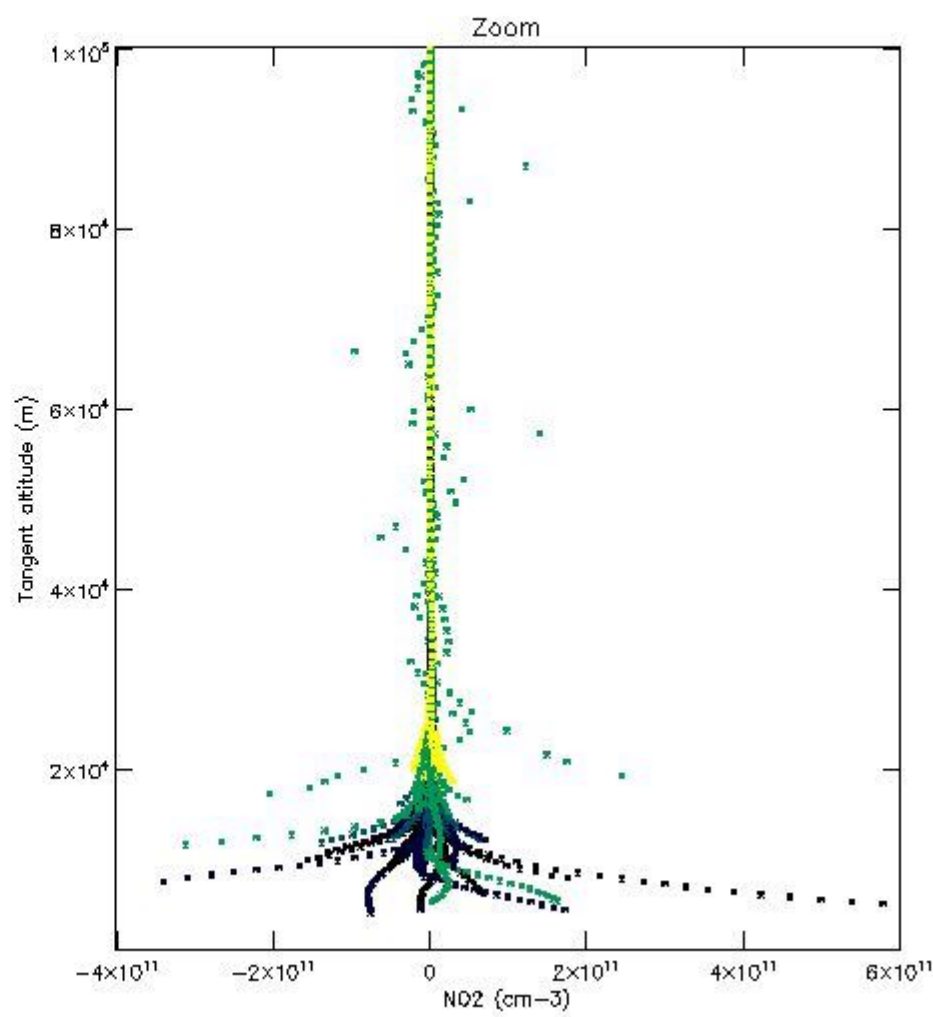
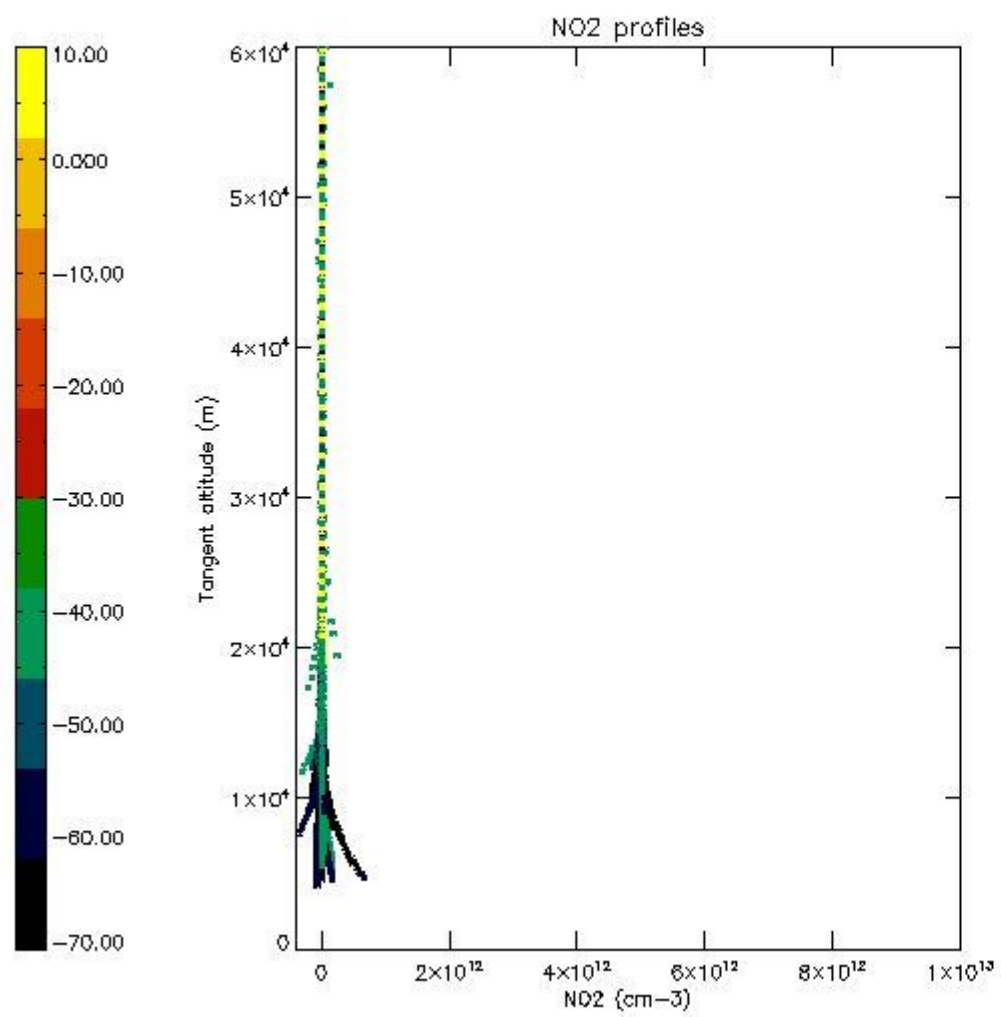
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



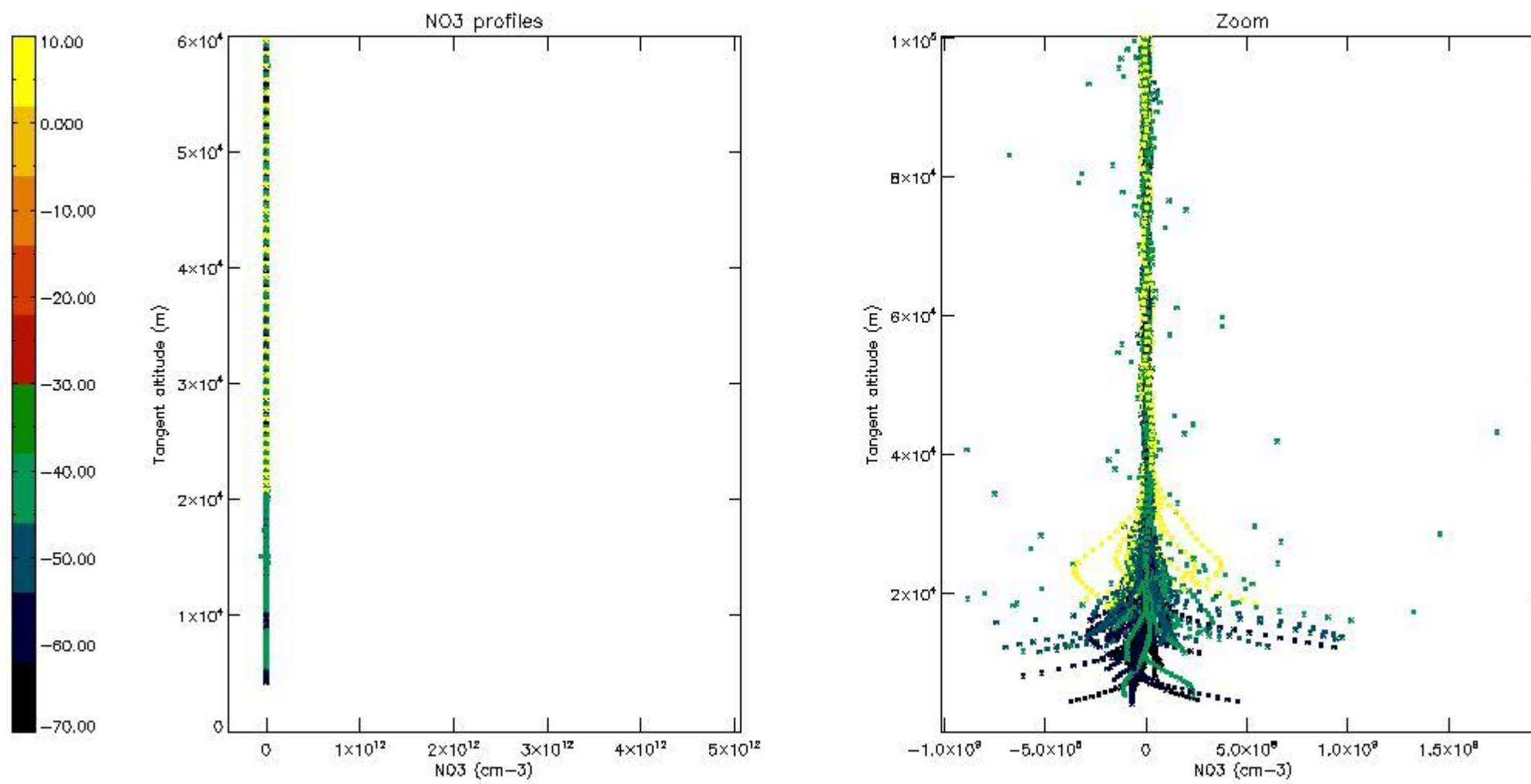
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

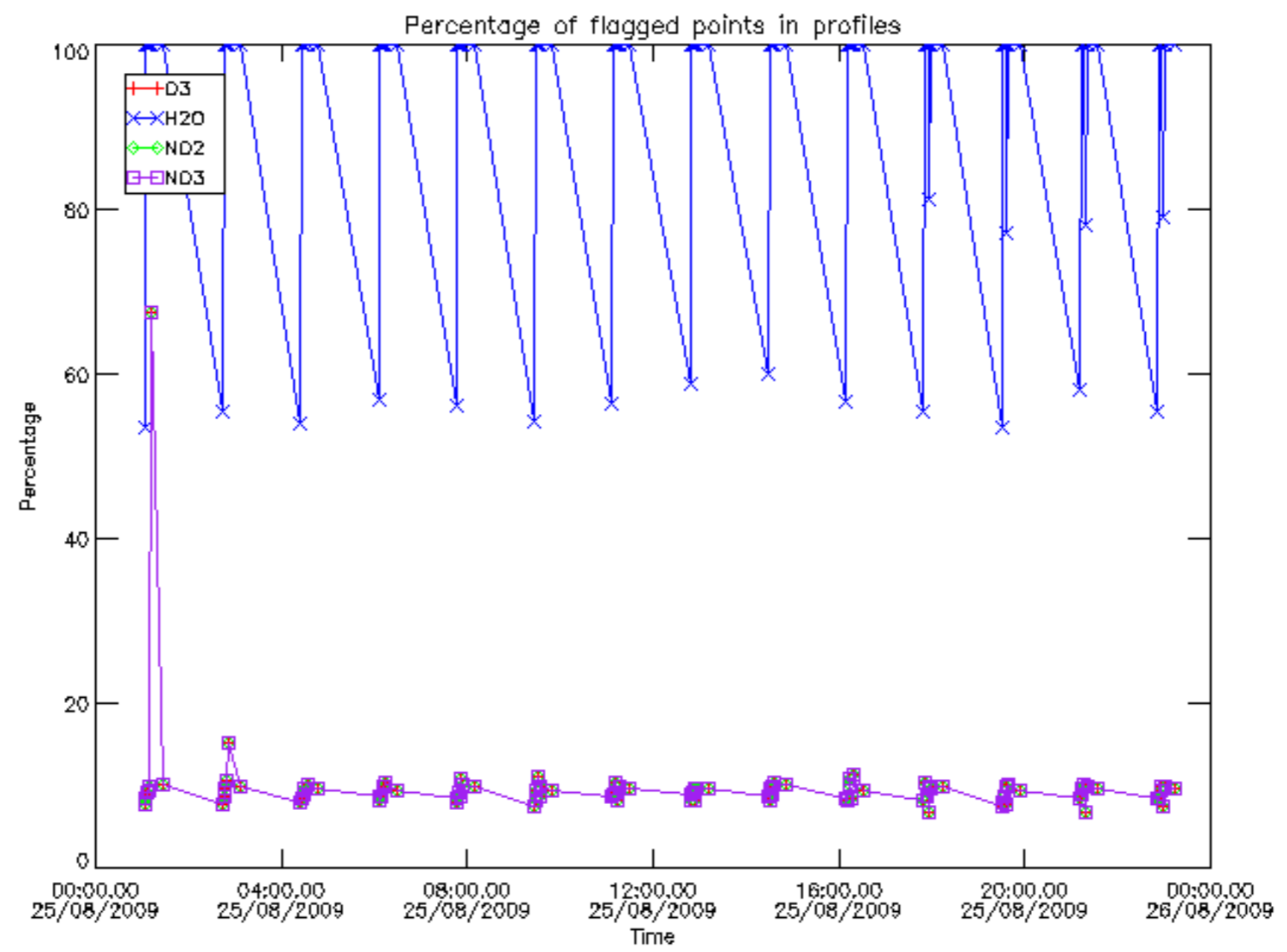
The colorbar represents the latitude.



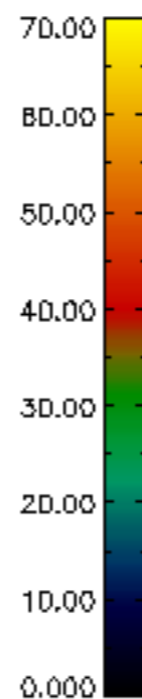
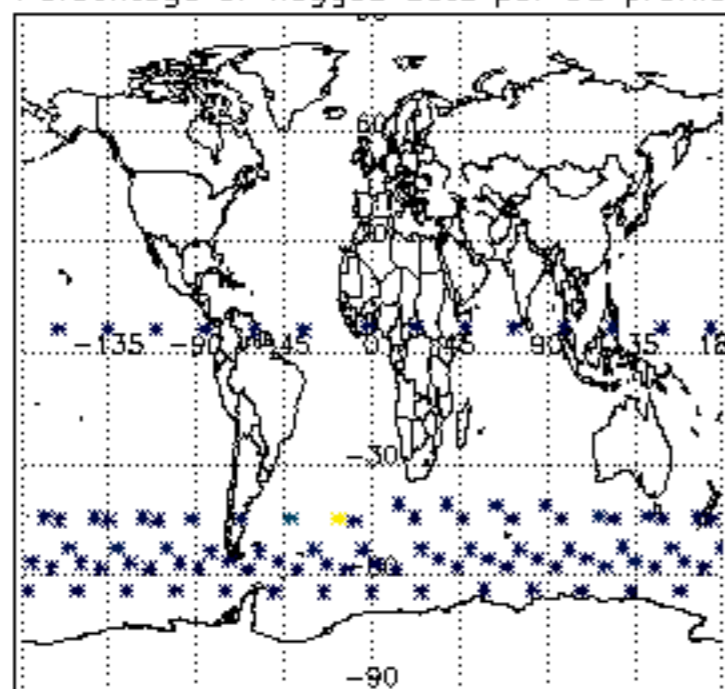
6. Auxiliary Data Files used for the production reported in section 2

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.

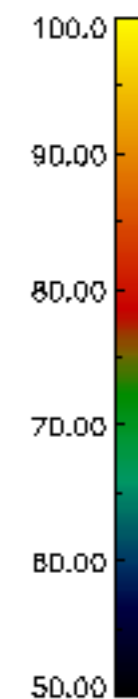
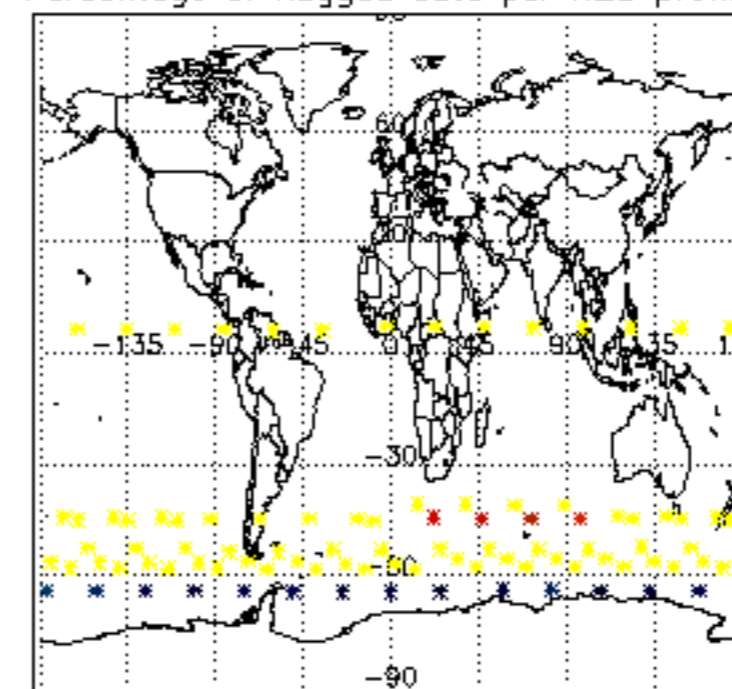
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	25-AUG-2009 00:01:44
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	25-AUG-2009 00:01:44
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	25-AUG-2009 00:01:44



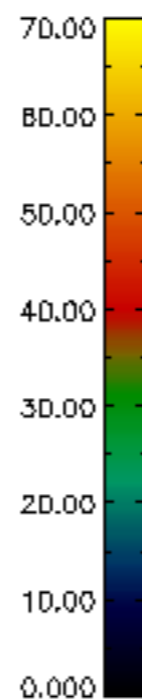
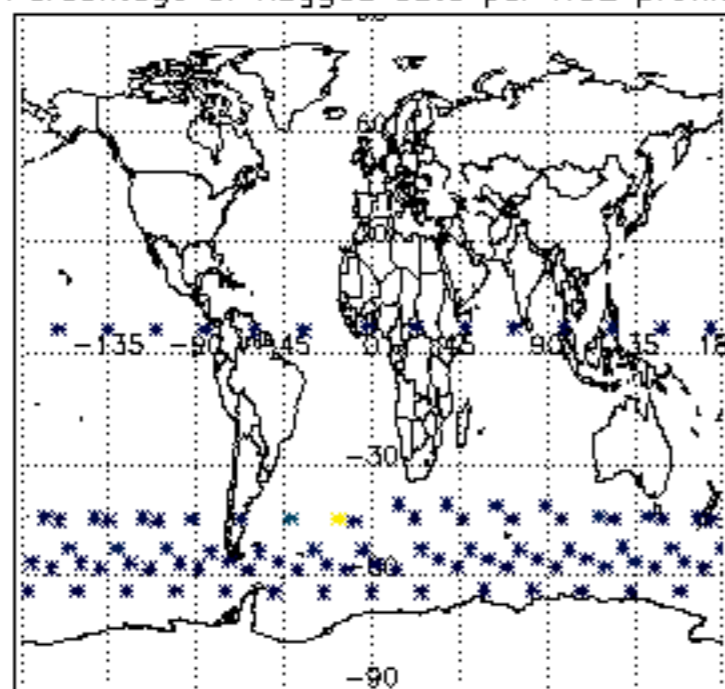
Percentage of flagged data per D3 profile



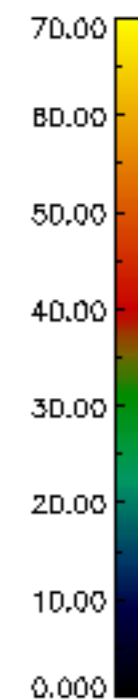
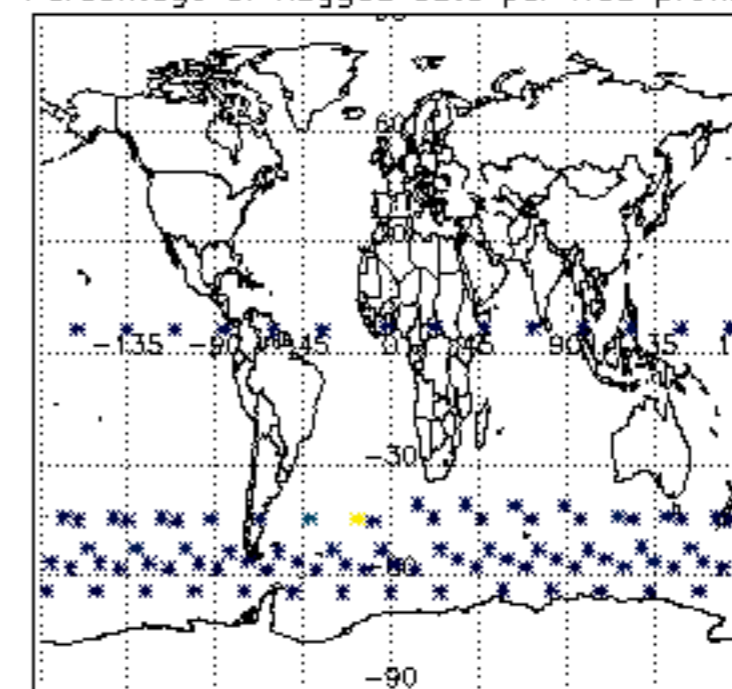
Percentage of flagged data per H2O profile

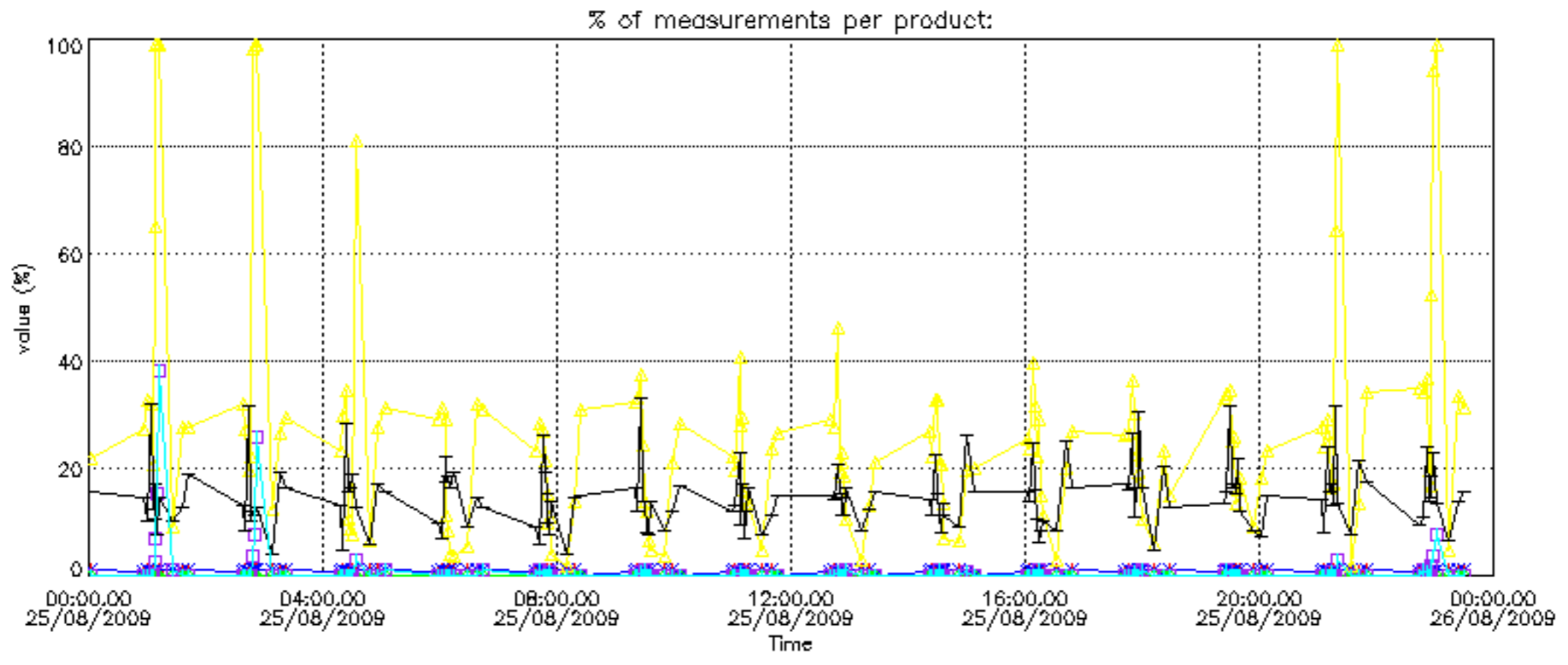


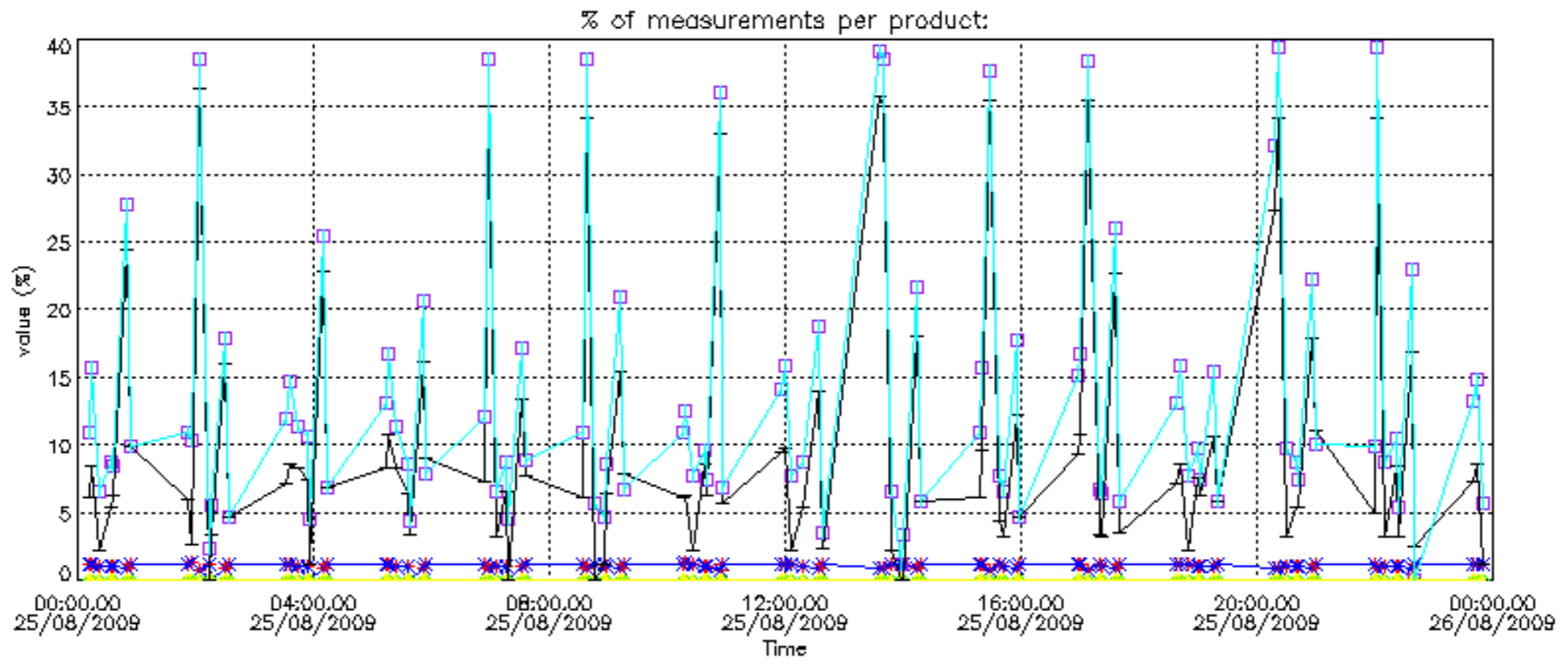
Percentage of flagged data per NO2 profile



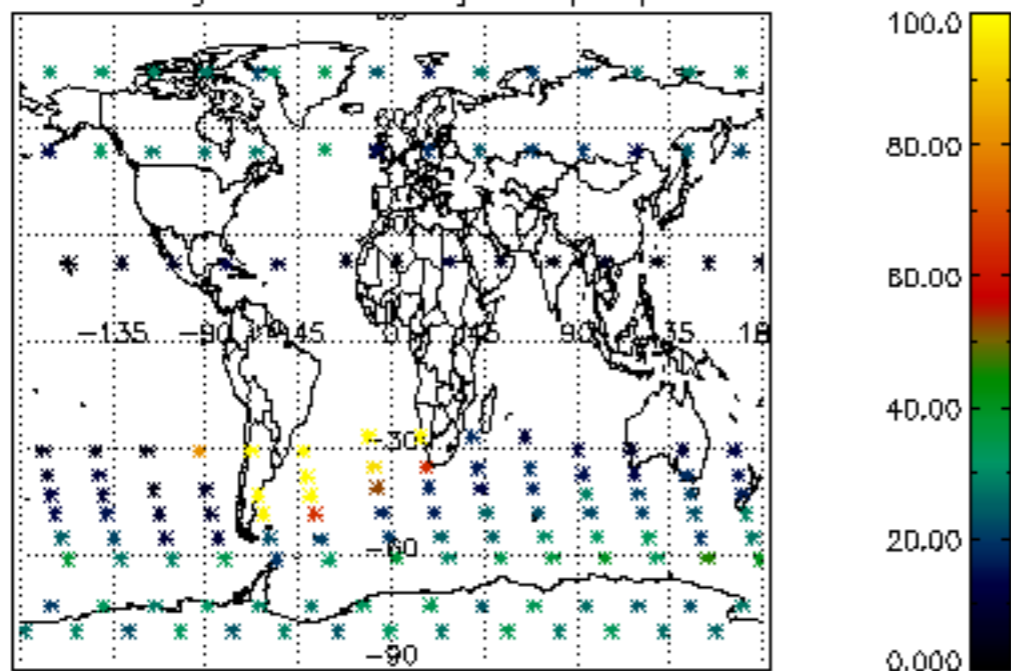
Percentage of flagged data per NO3 profile



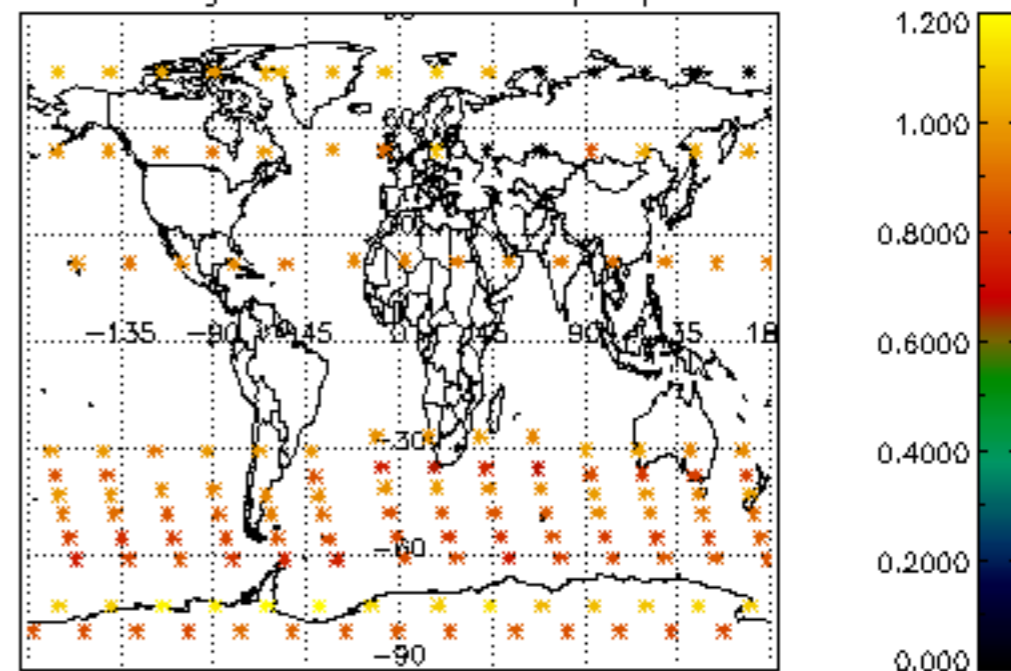




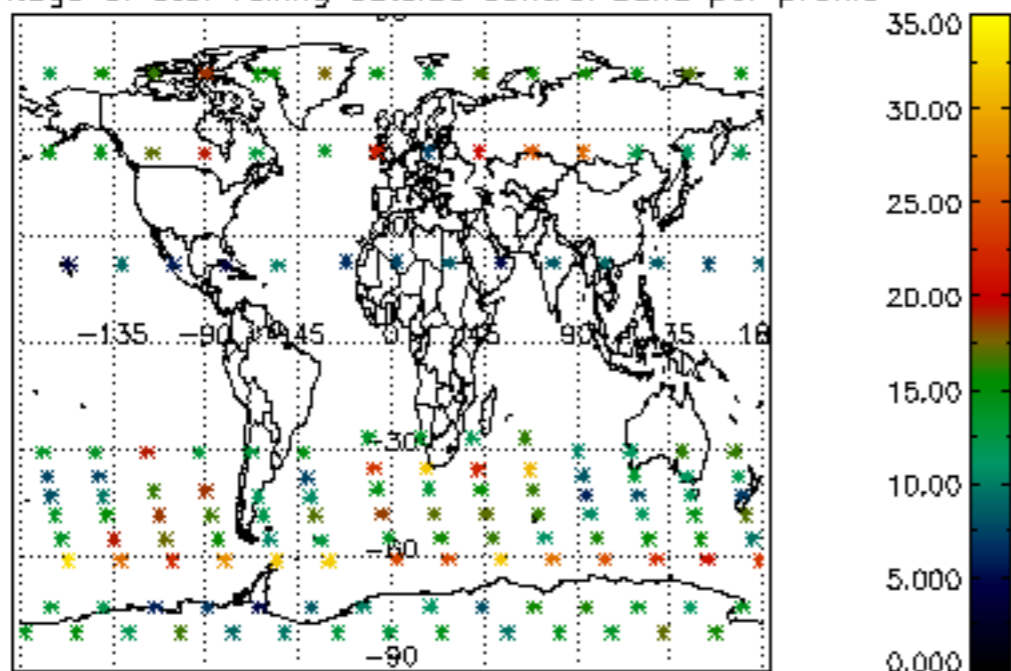
Percentage of cosmic ray hits per profile



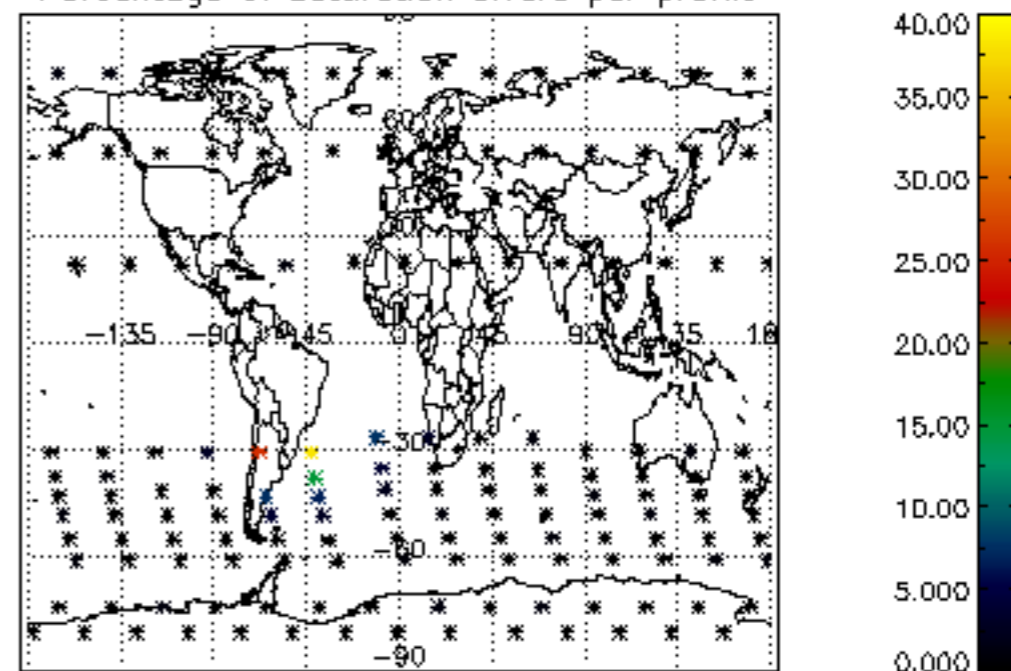
Percentage of datation errors per profile



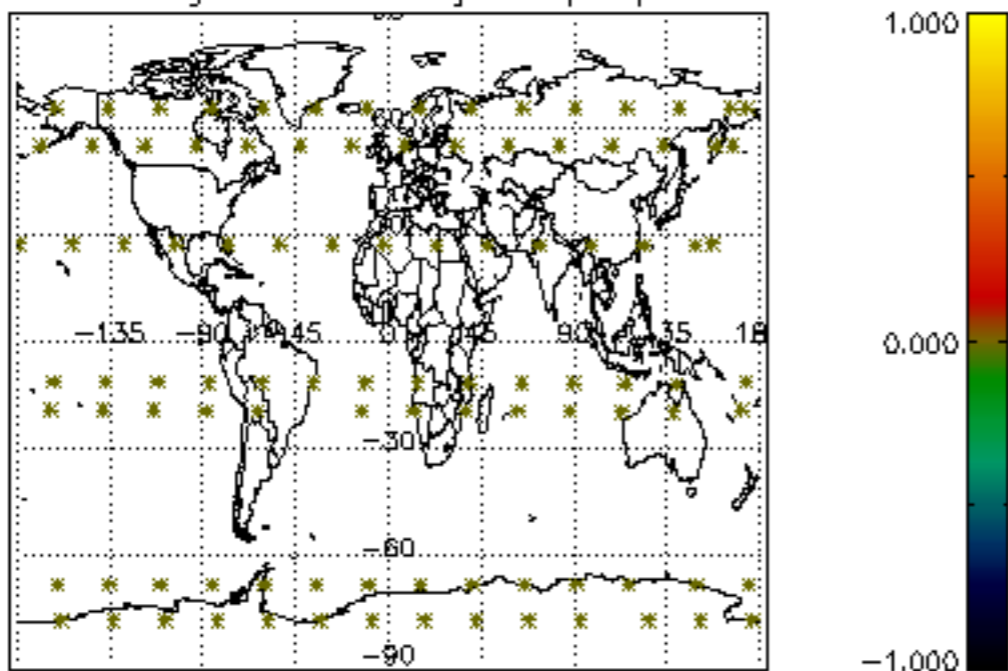
Percentage of star falling outside central band per profile



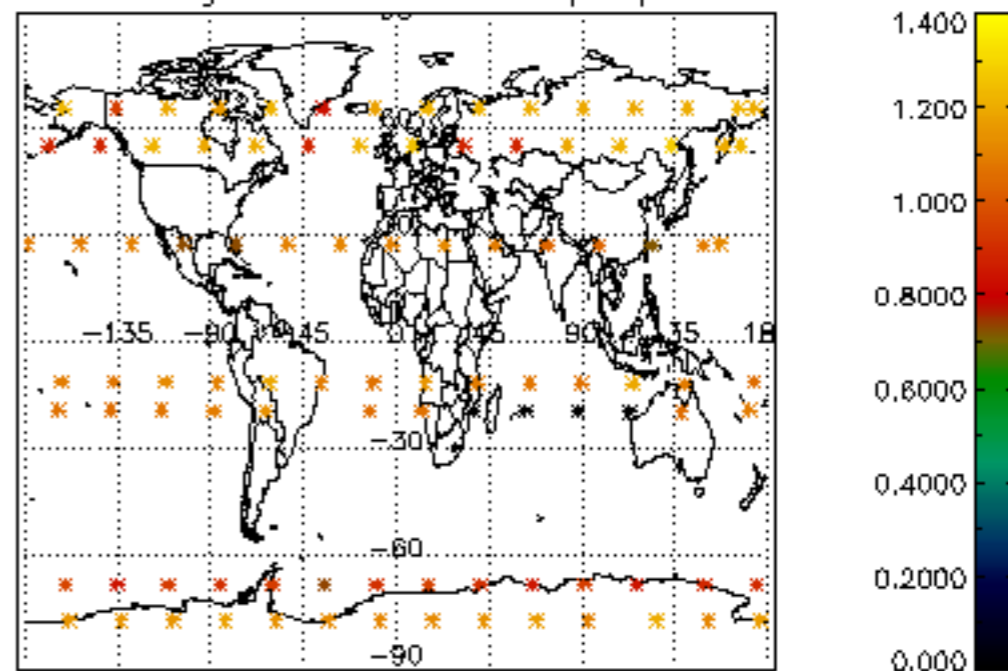
Percentage of saturation errors per profile



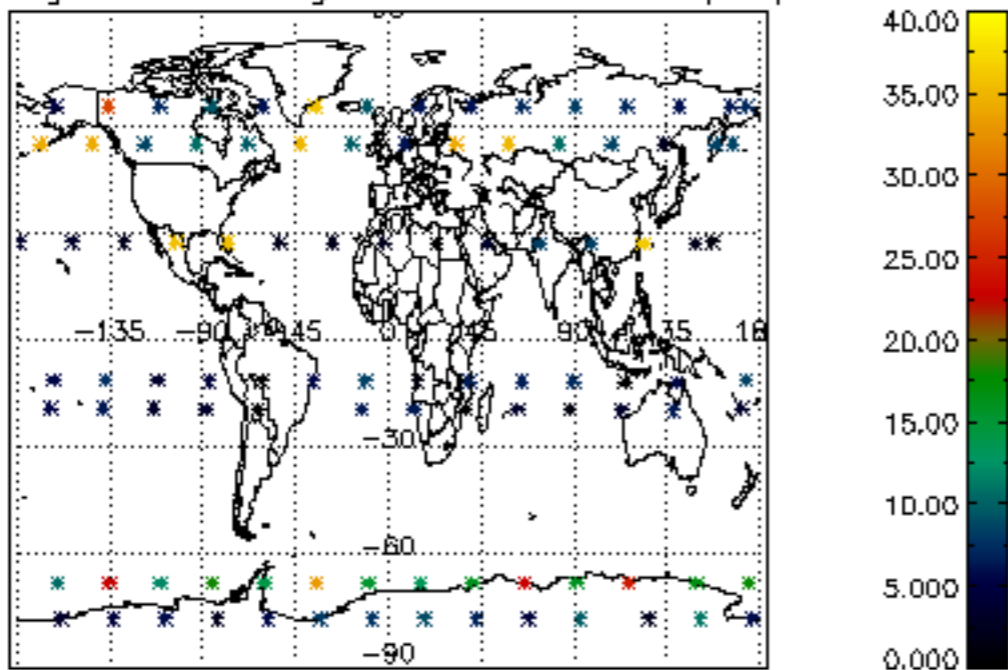
Percentage of cosmic ray hits per profile



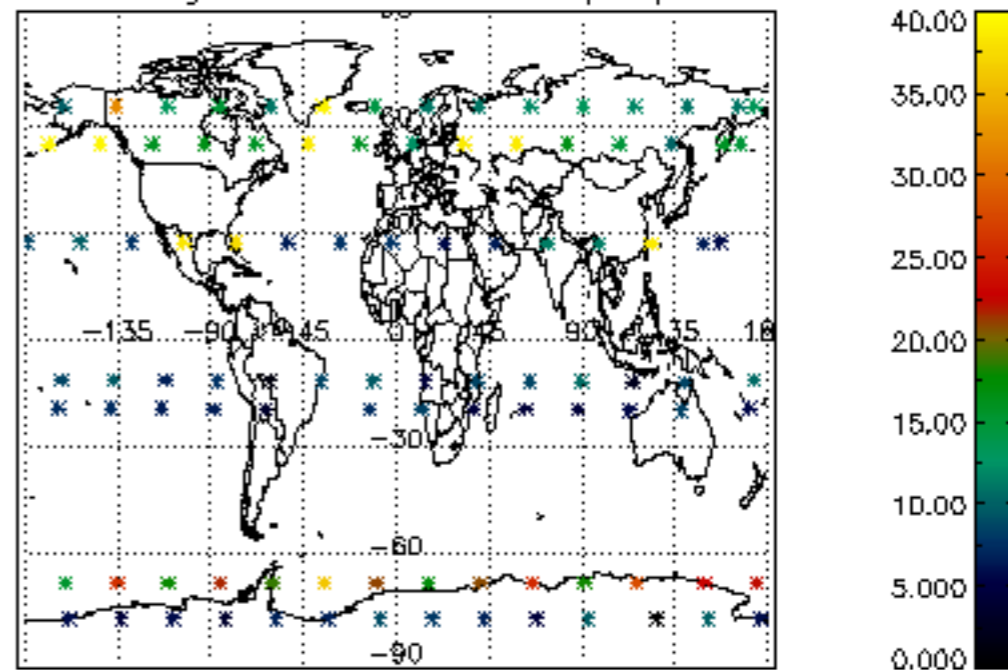
Percentage of datation errors per profile

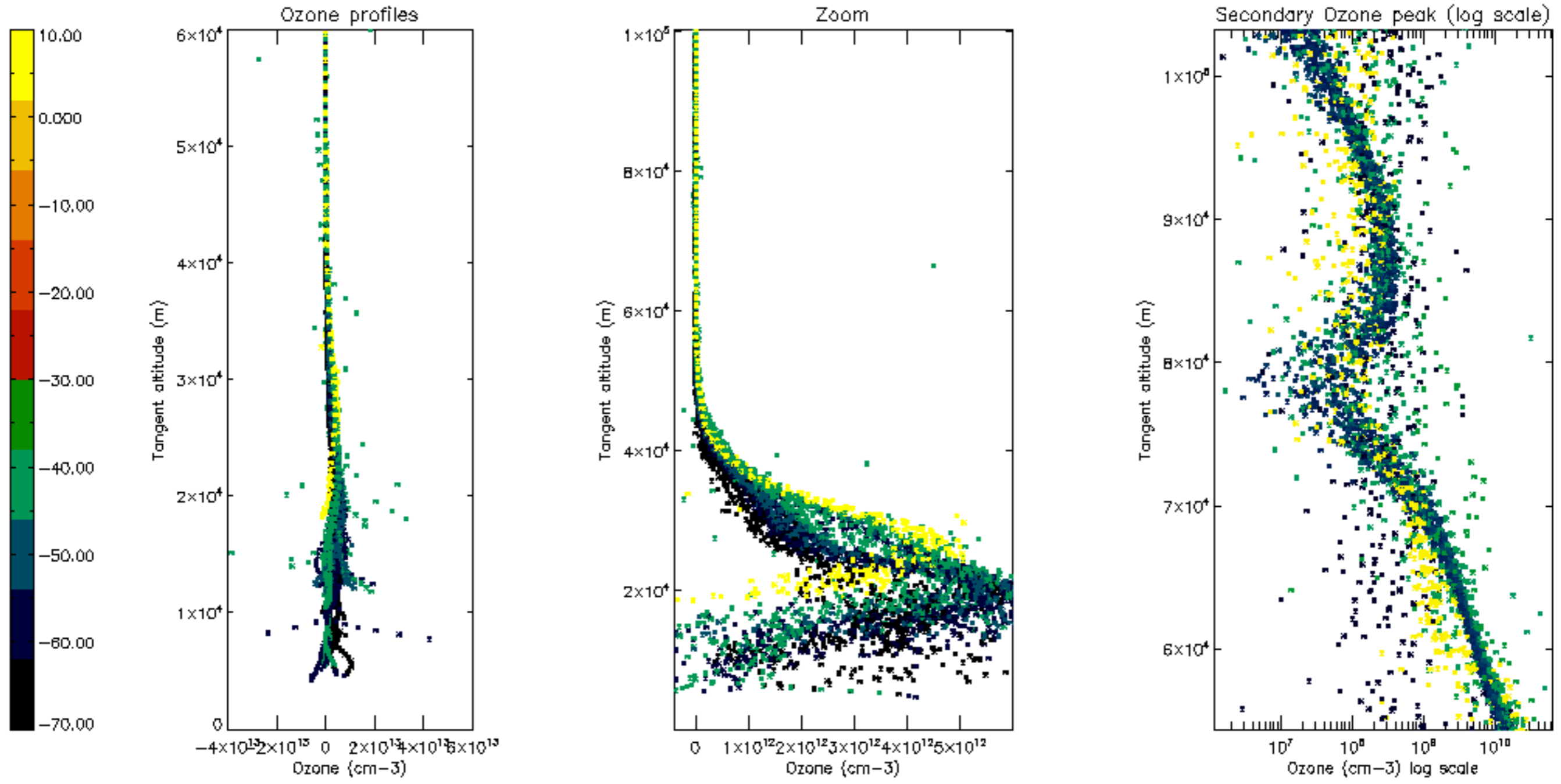


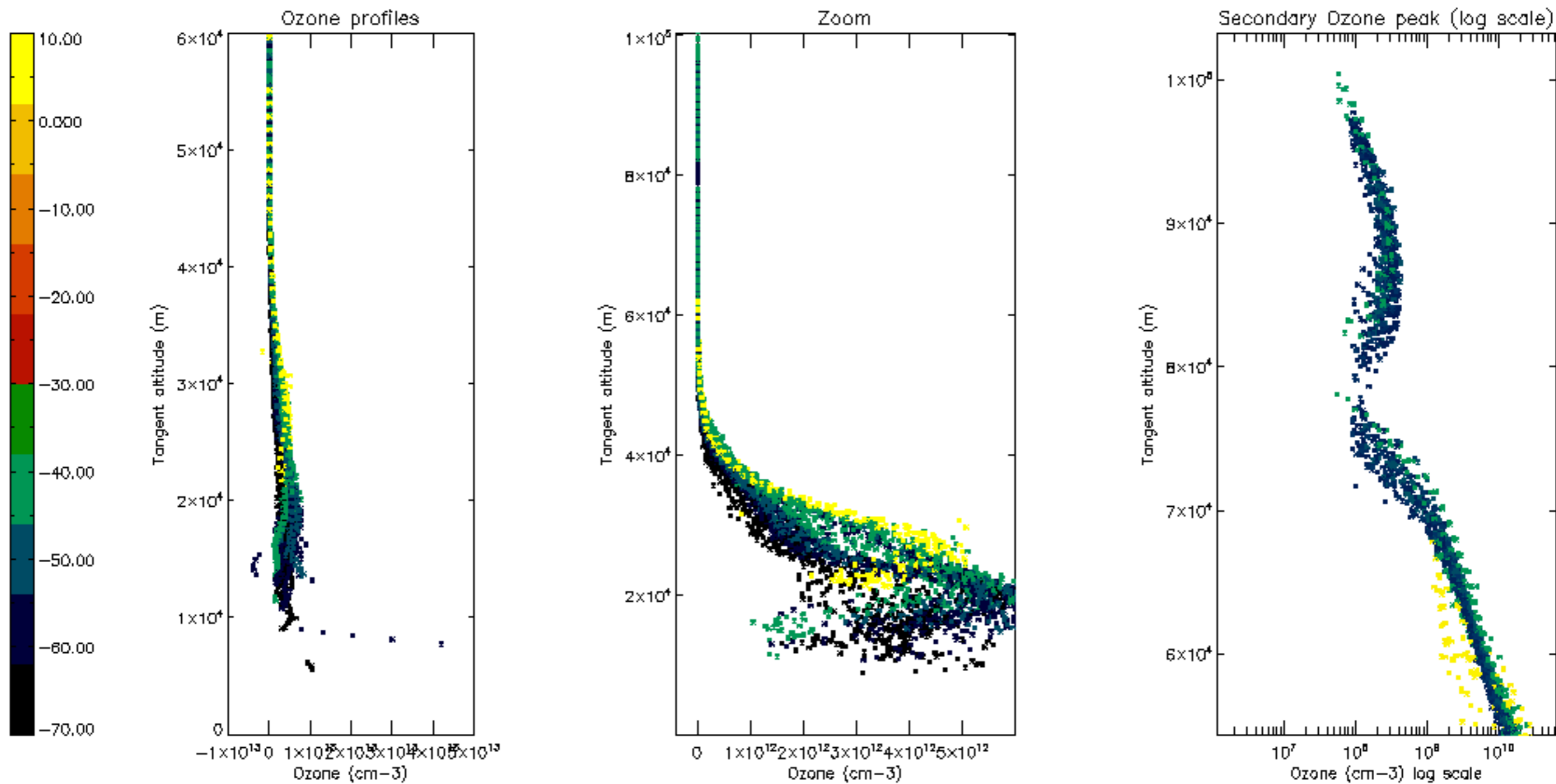
Percentage of star falling outside central band per profile

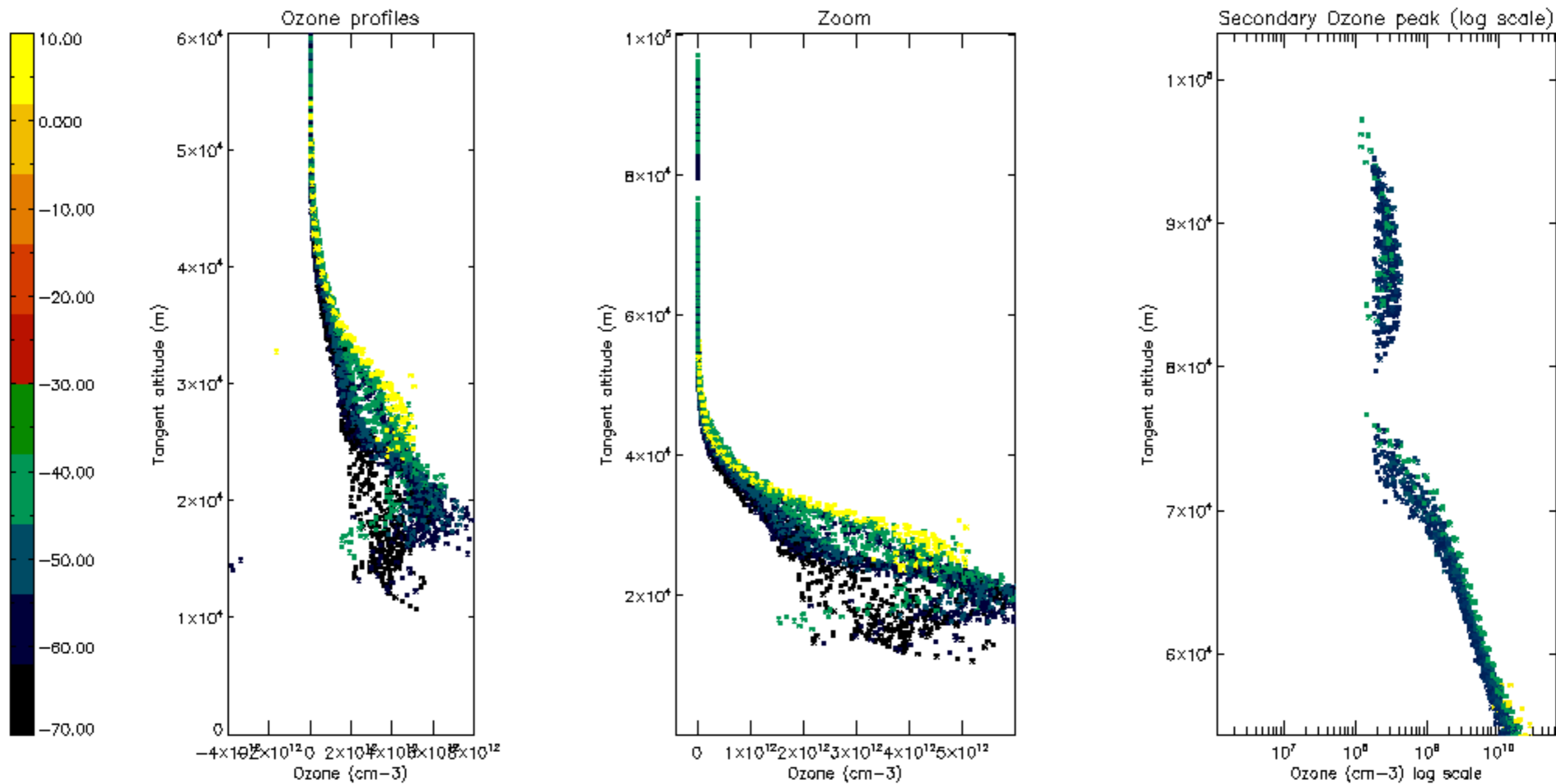


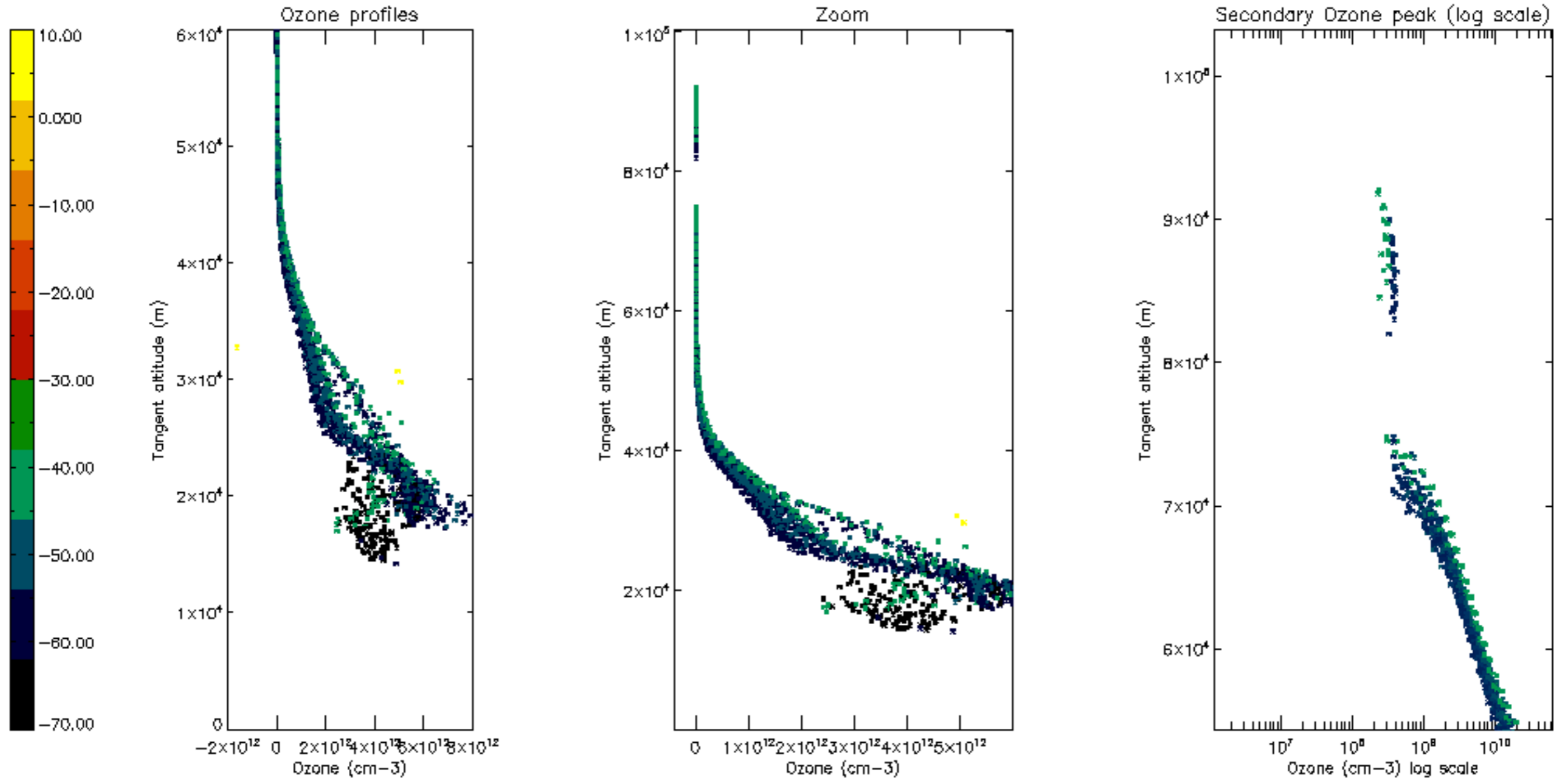
Percentage of saturation errors per profile

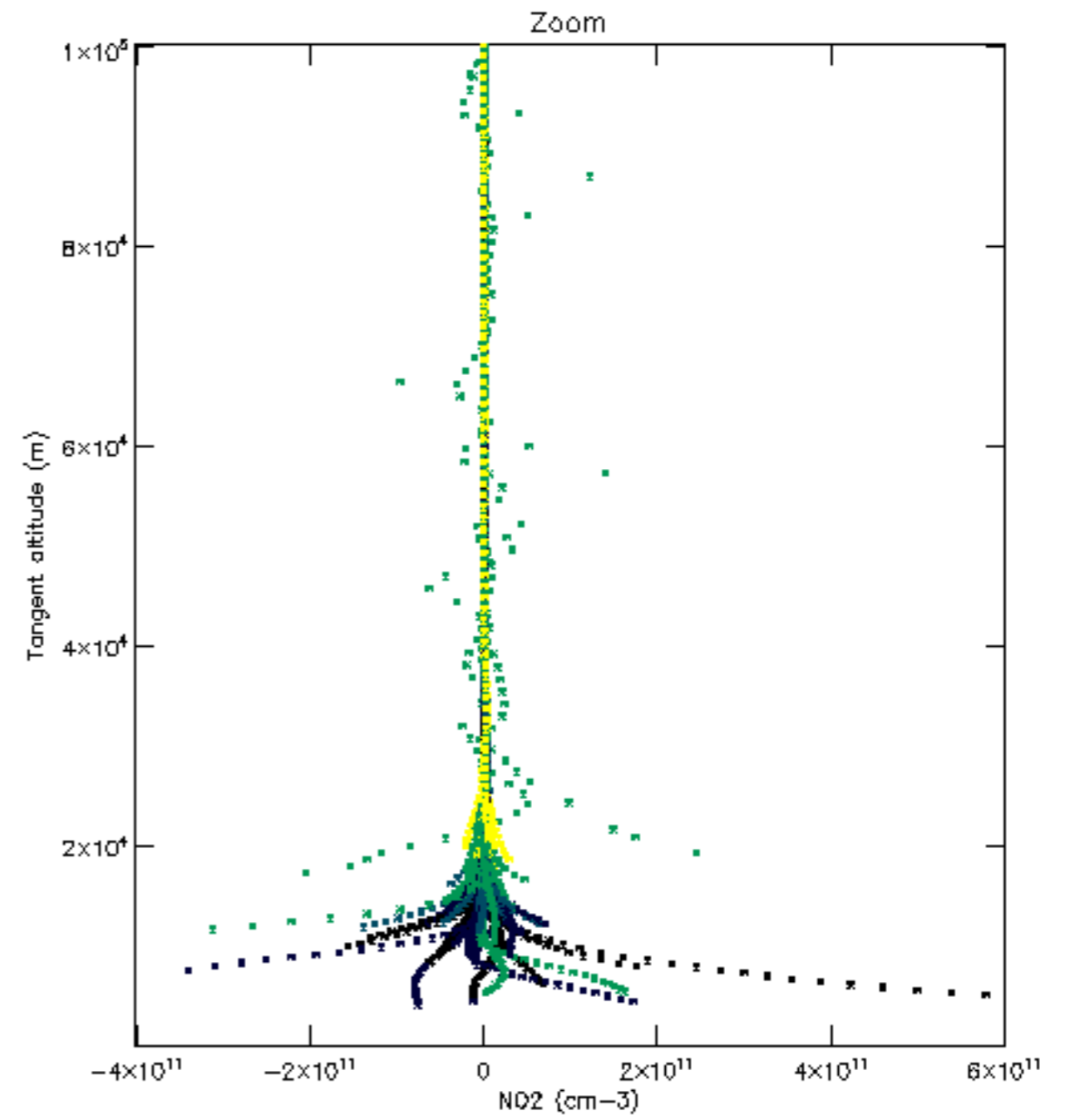
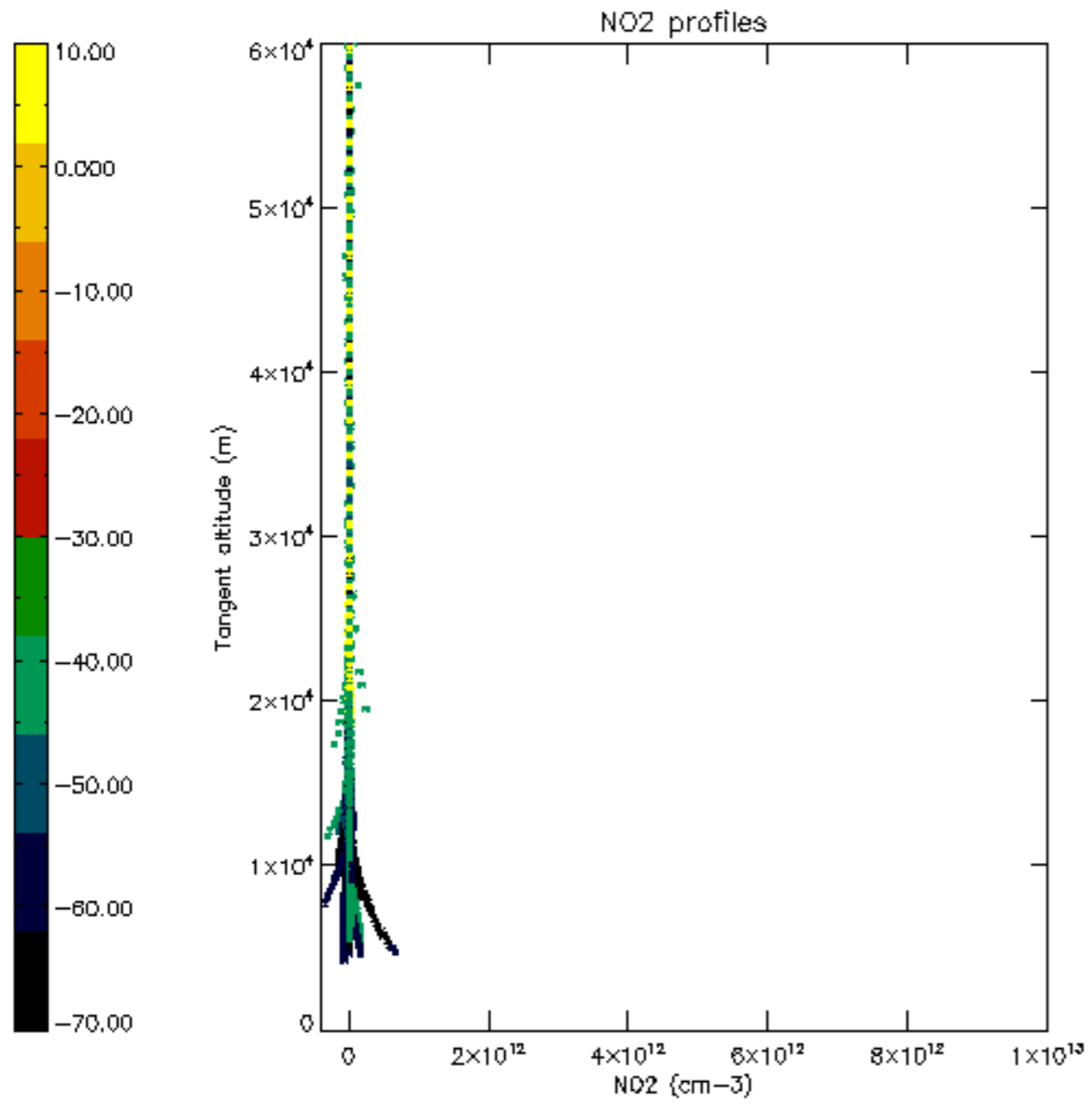


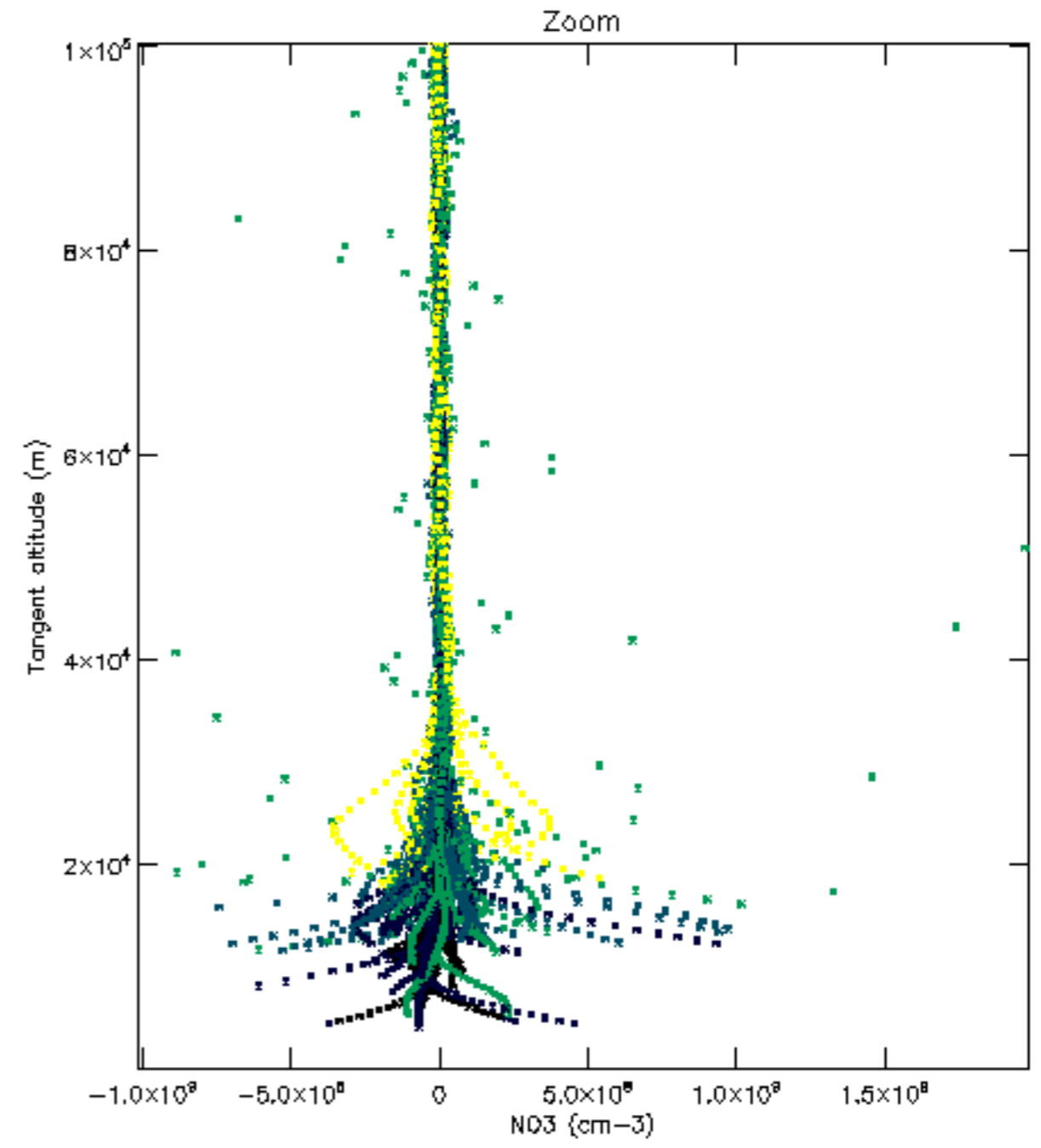
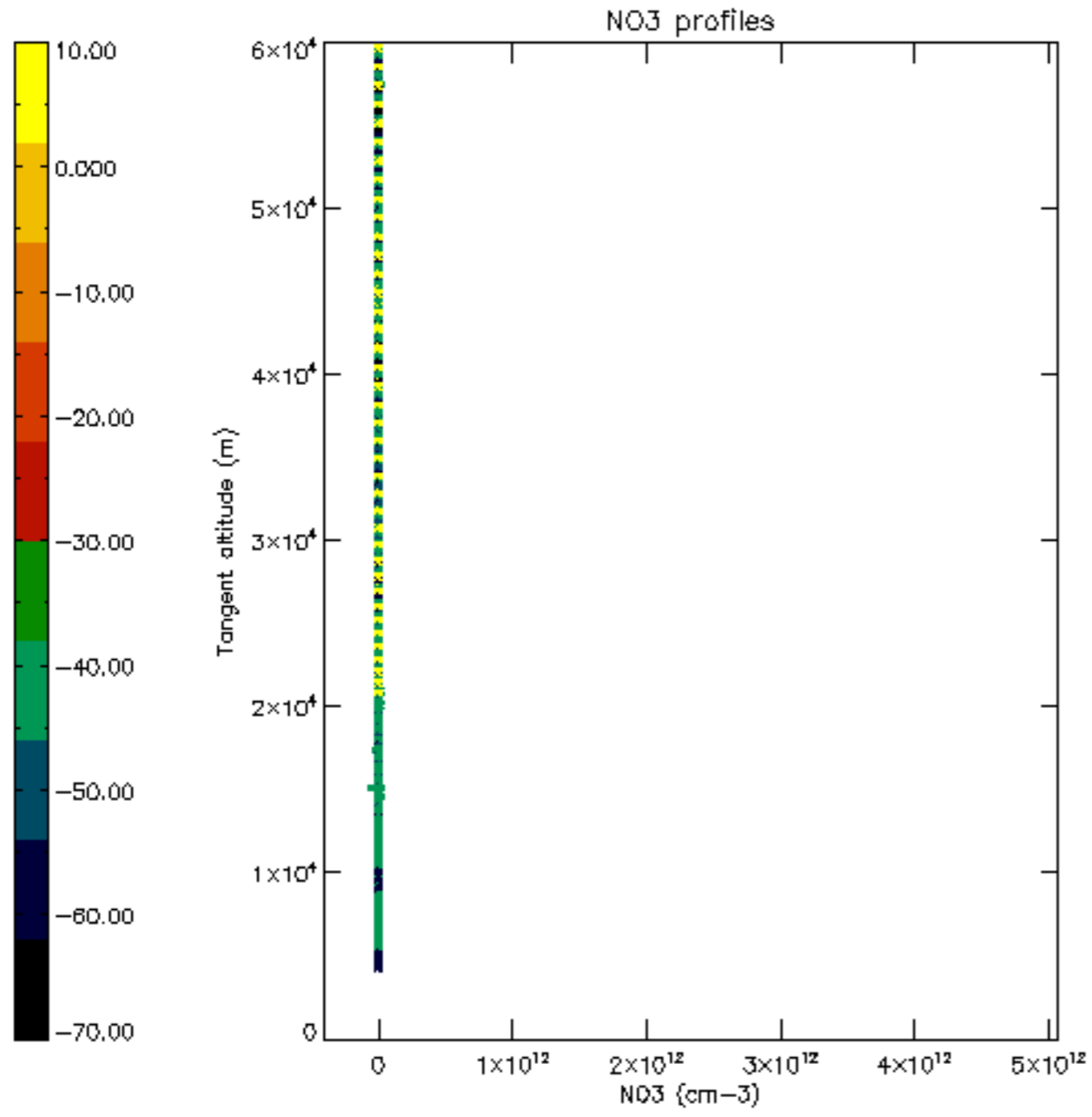


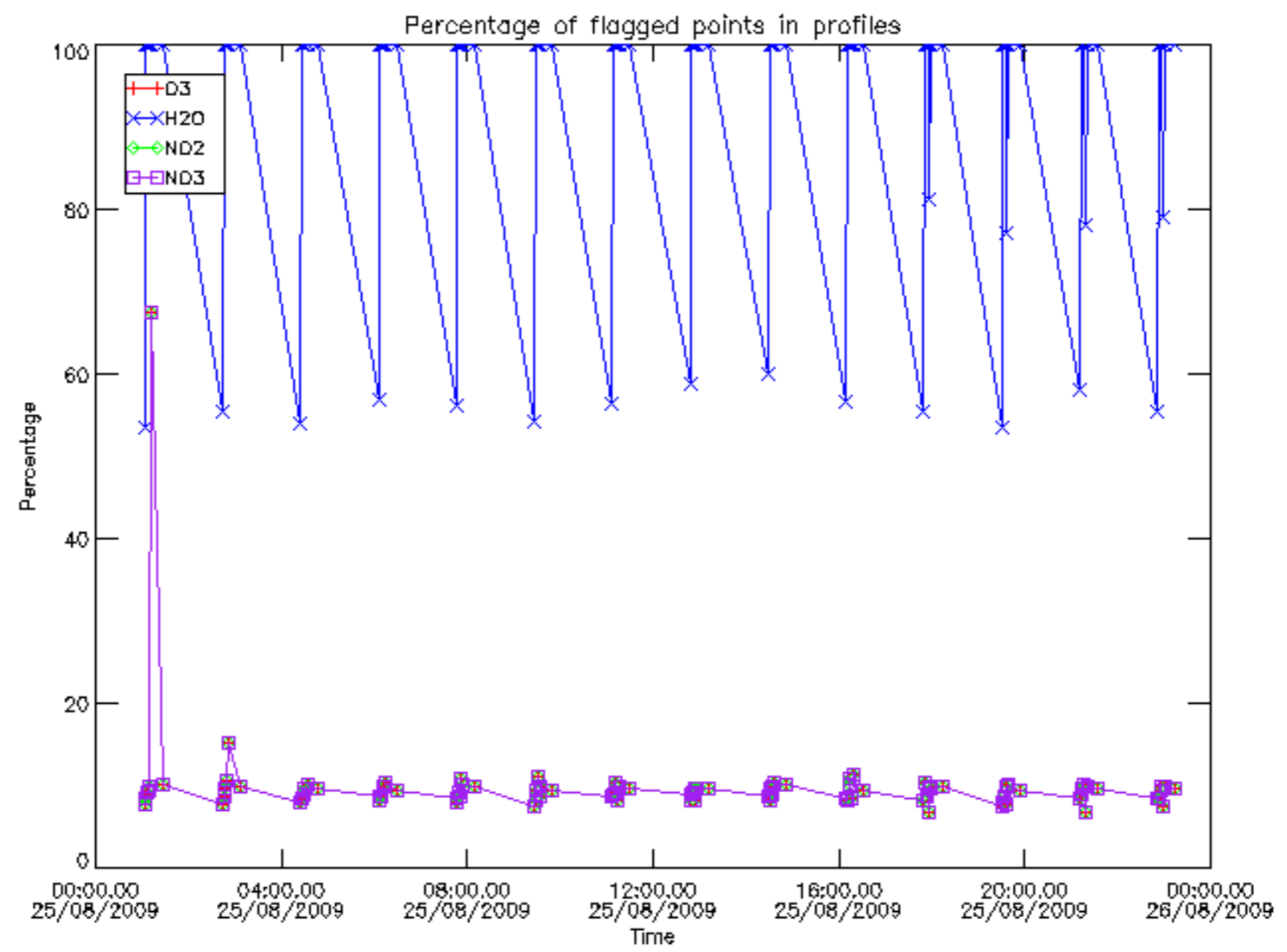




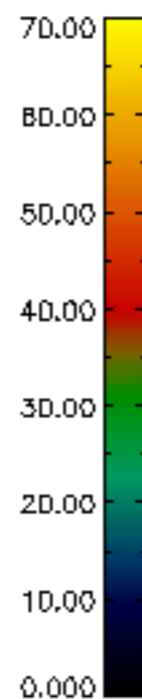
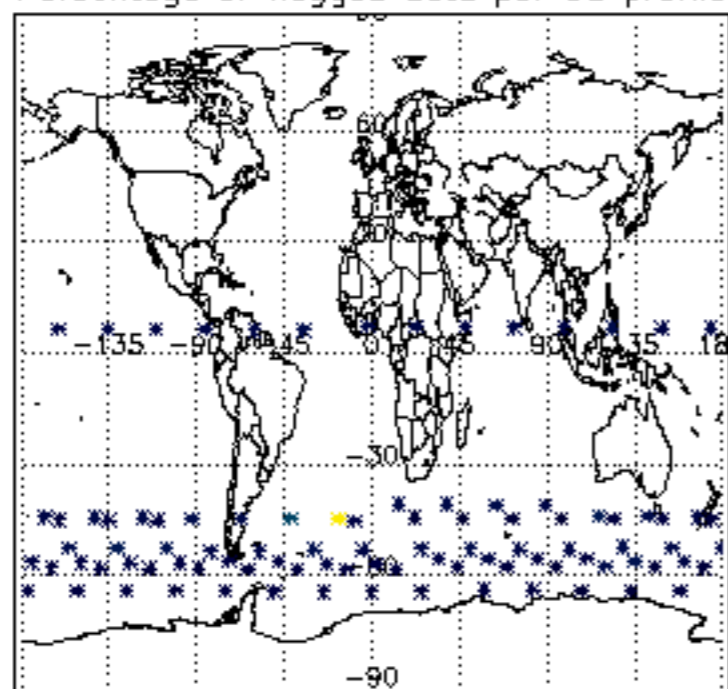




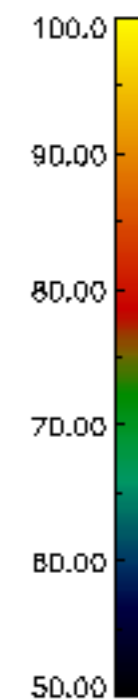
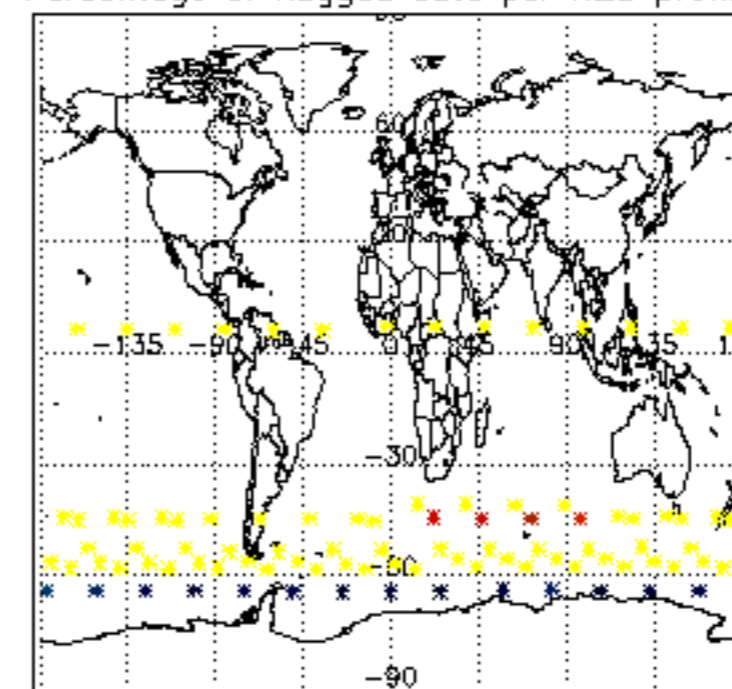




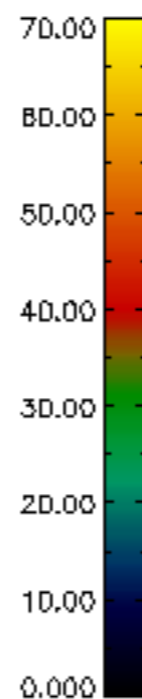
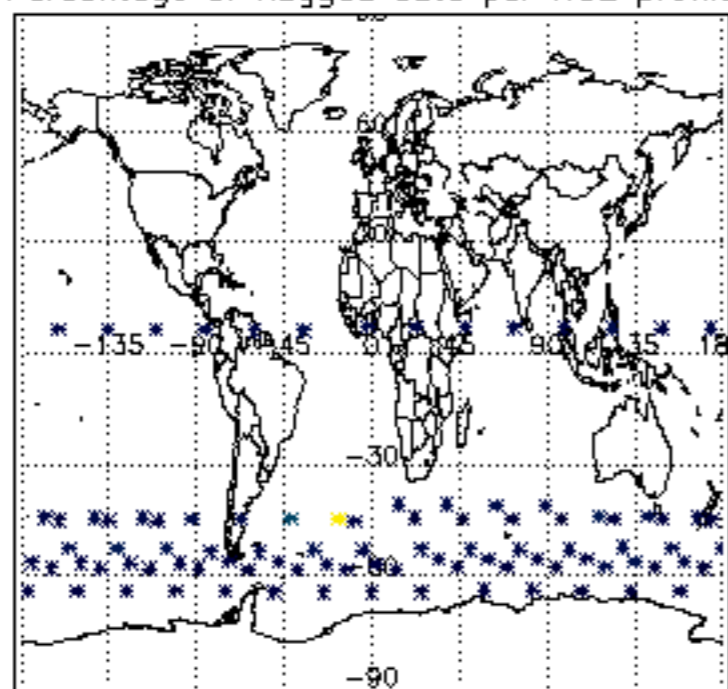
Percentage of flagged data per D3 profile



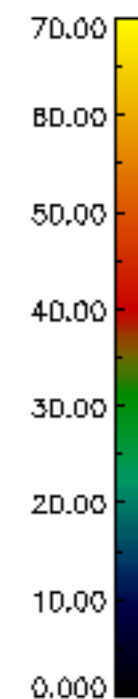
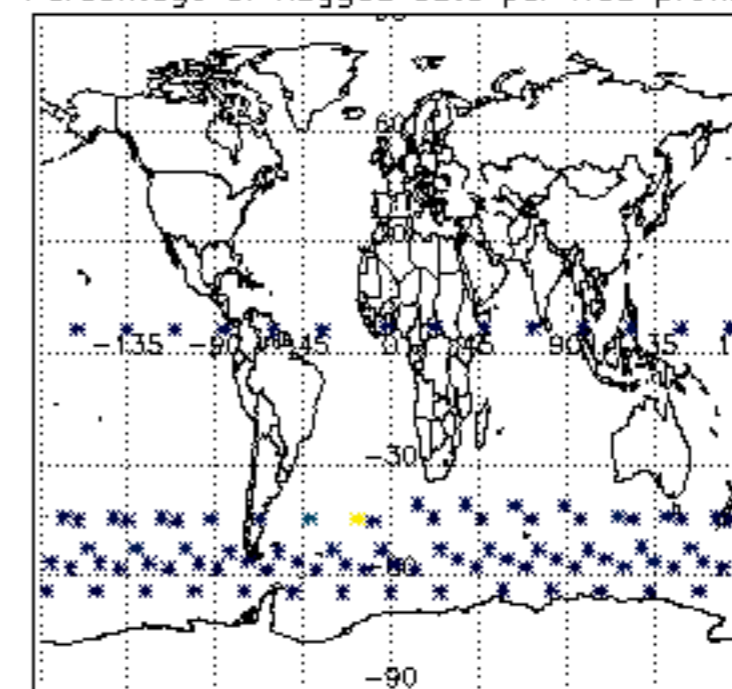
Percentage of flagged data per H2O profile

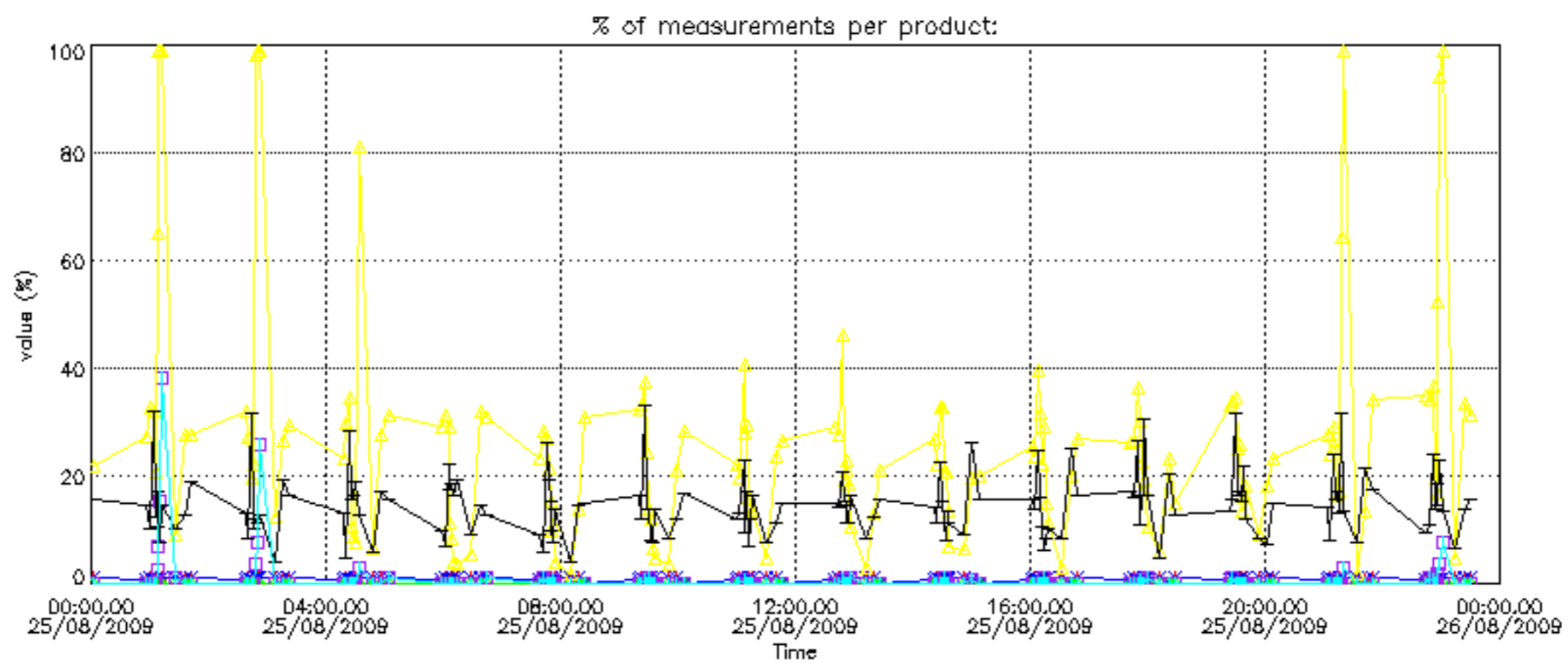
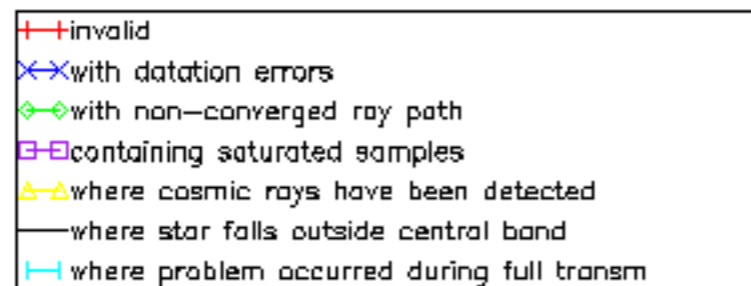


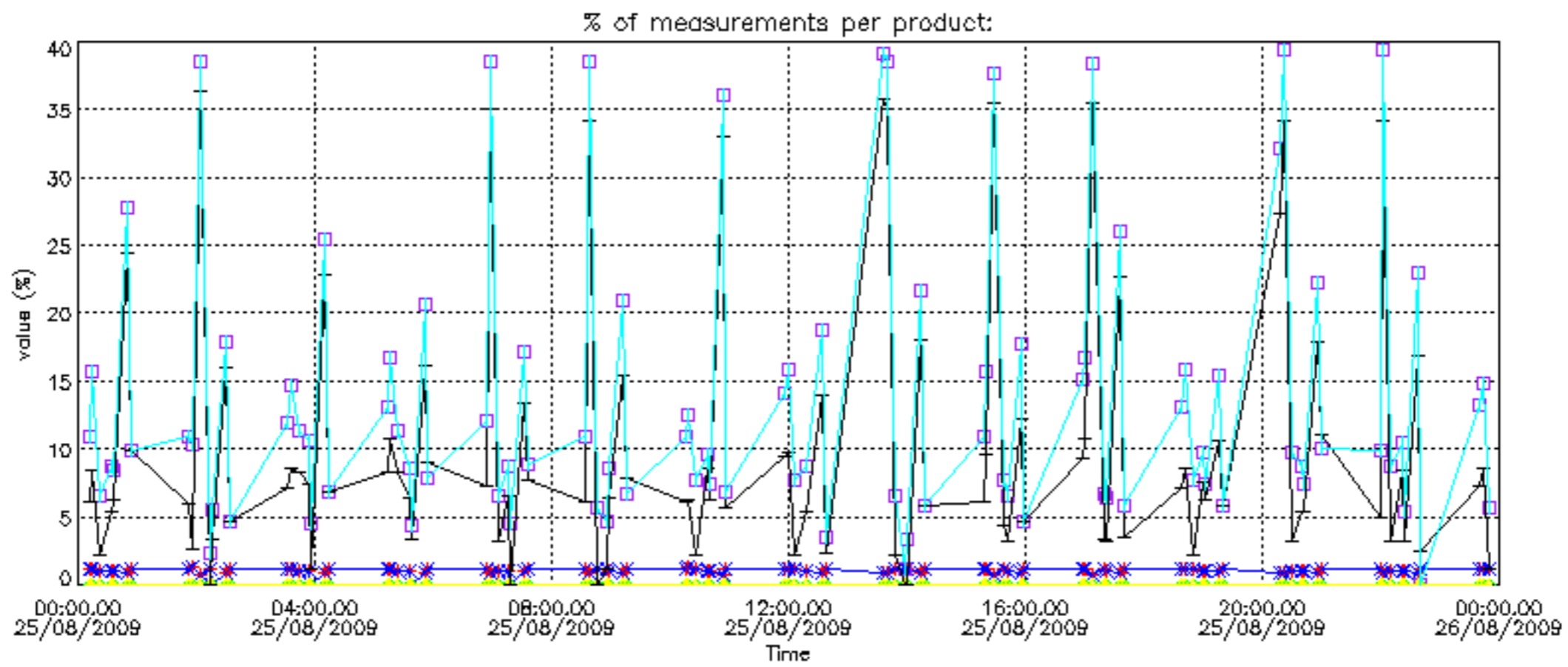
Percentage of flagged data per NO2 profile



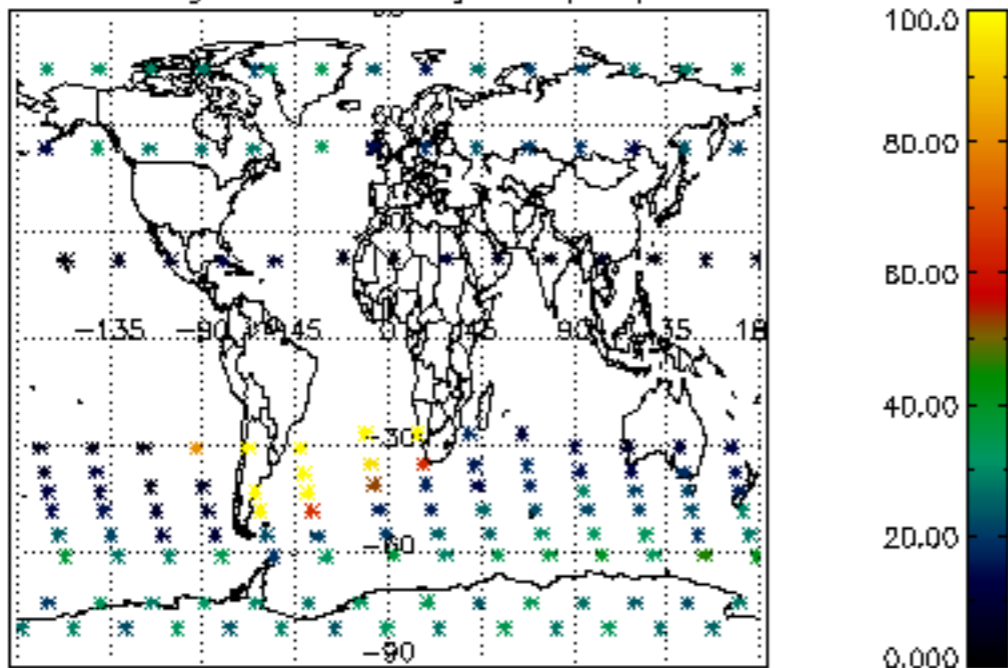
Percentage of flagged data per NO3 profile



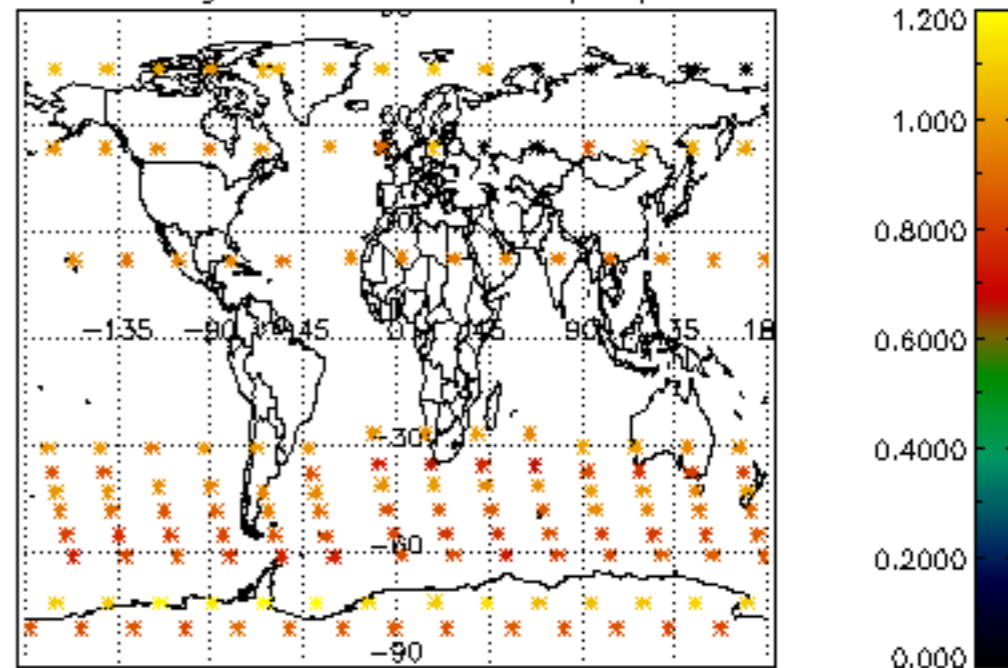




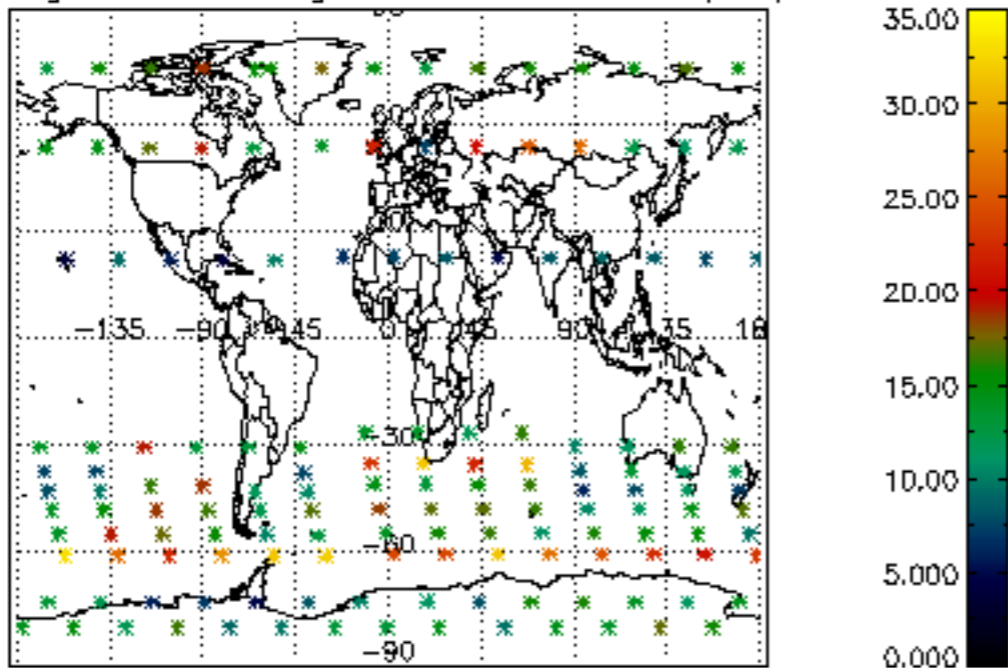
Percentage of cosmic ray hits per profile



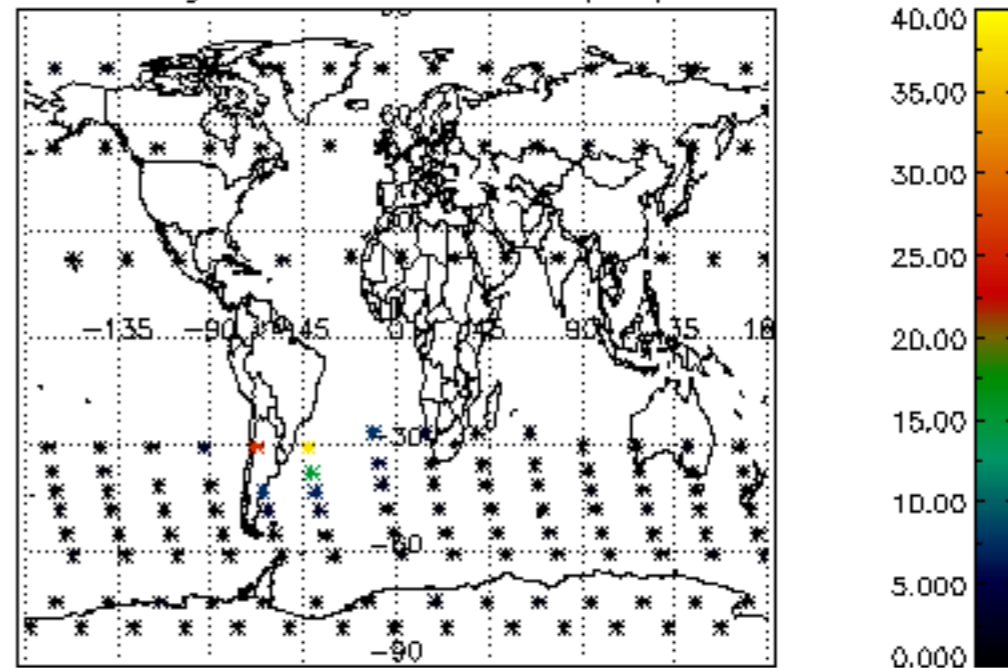
Percentage of datation errors per profile



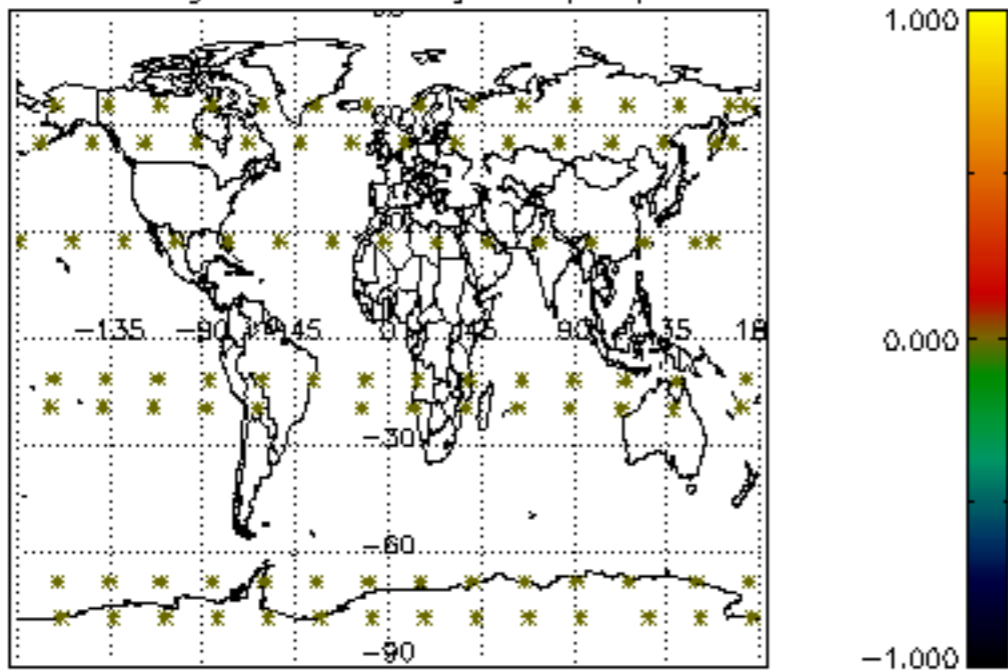
Percentage of star falling outside central band per profile



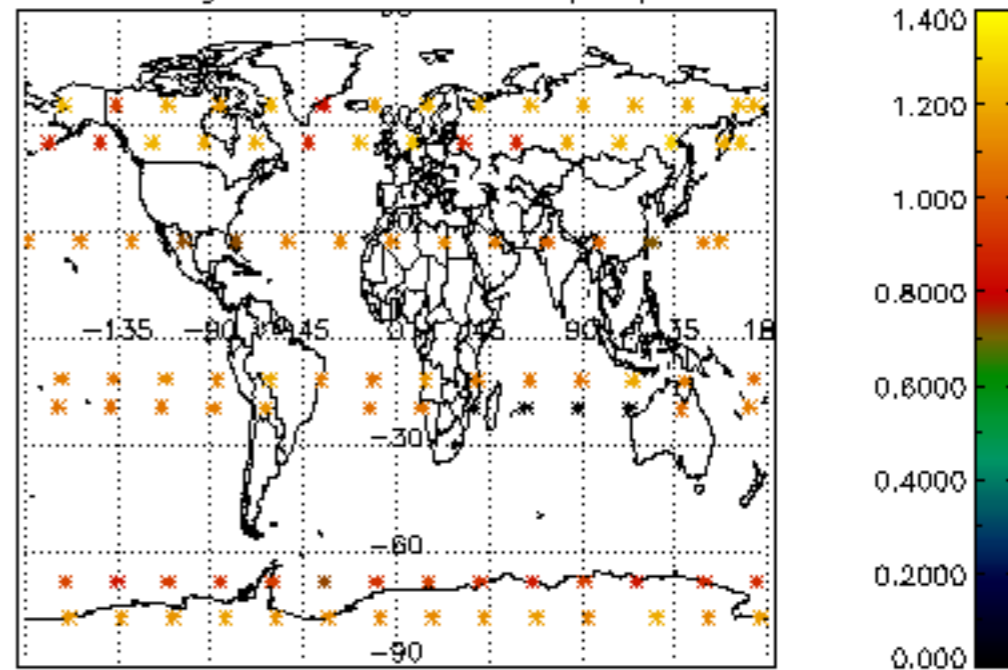
Percentage of saturation errors per profile



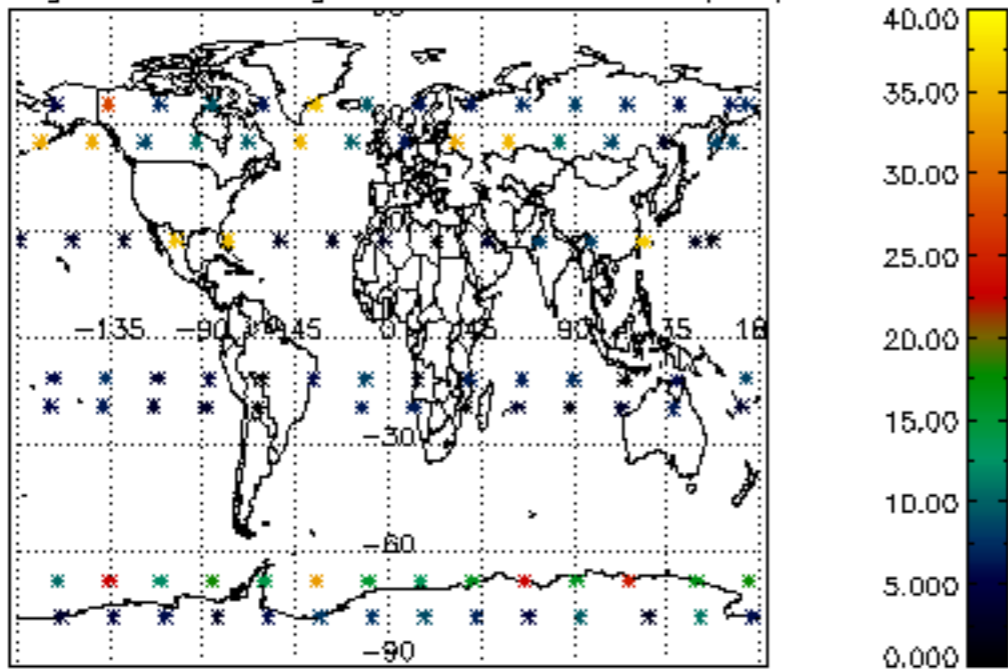
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

