

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](#)

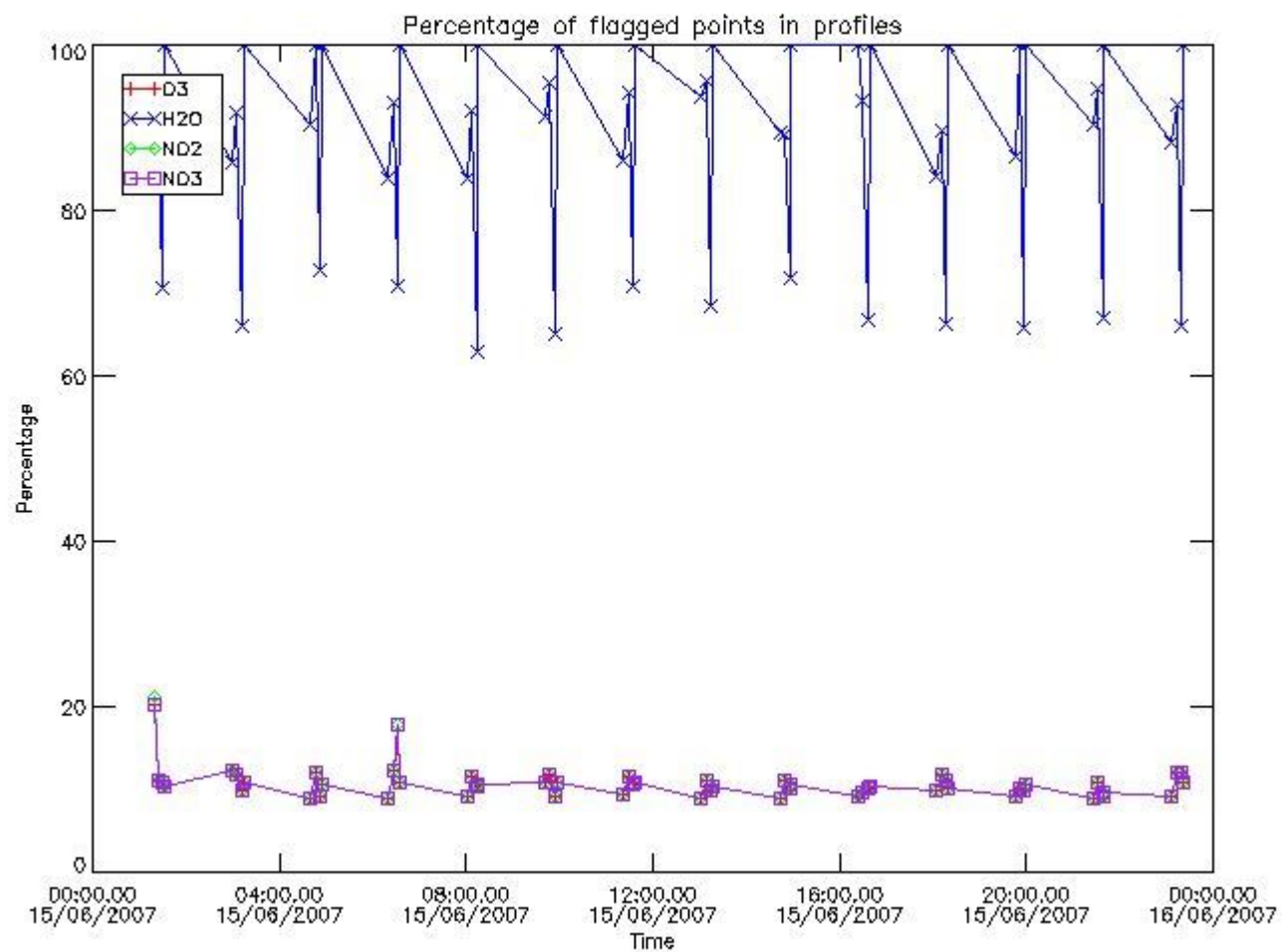
[6. Auxiliary Data Files used for the production reported in section 2](#)

279	GOM_NL__2PRFIN20070615_225044_000000482059_00058_27667_0077.N1	15-JUN-2007 22:50:44	Twilight	48.000	50	13Alp Ari	2.0070	4250.0	96	27667	No
280	GOM_NL__2PRFIN20070615_230622_000000552059_00058_27667_0078.N1	15-JUN-2007 23:06:22	Dark	55.000	52	16Bet Cet	2.0370	4500.0	110	27667	No
281	GOM_NL__2PRFIN20070615_231236_000000432059_00058_27667_0079.N1	15-JUN-2007 23:12:36	Dark	42.500	84	Alp Phe	2.3970	4500.0	85	27667	No
282	GOM_NL__2PRFIN20070615_231848_000000642059_00059_27668_0070.N1	15-JUN-2007 23:18:48	Dark	63.500	63	Bet Gru	2.1500	2800.0	127	27668	No
283	GOM_NL__2PRFIN20070615_232051_000000472059_00059_27668_0071.N1	15-JUN-2007 23:20:51	Dark	46.500	31	Alp Gru	1.7340	15200.	93	27668	No
284	GOM_NL__2PRFIN20070615_232444_000000442059_00059_27668_0072.N1	15-JUN-2007 23:24:44	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	27668	No
285	GOM_NL__2PRFIN20070615_233254_000000432059_00059_27668_0073.N1	15-JUN-2007 23:32:54	Twilight_and_stray	43.000	40	The Sco	1.8590	7100.0	86	27668	No
286	GOM_NL__2PRFIN20070615_233437_000000432059_00059_27668_0074.N1	15-JUN-2007 23:34:37	Twilight_and_stray	42.500	25	35Lam Sco	1.6200	28000.	85	27668	No
287	GOM_NL__2PRFIN20070615_233600_000000482059_00059_27668_0075.N1	15-JUN-2007 23:36:00	Twilight_and_stray	48.000	167	10Gam2Sgr	2.9840	4500.0	96	27668	No
288	GOM_NL__2PRFIN20070615_234113_000000392059_00059_27668_0076.N1	15-JUN-2007 23:41:13	Bright	39.000	86	35Eta Oph	2.4300	10200.	78	27668	No
289	GOM_NL__2PRFIN20070615_234258_000000372059_00059_27668_0077.N1	15-JUN-2007 23:42:58	Bright	36.500	98	13Zet Oph	2.5710	30000.	73	27668	No
290	GOM_NL__2PRFIN20070615_234749_000000442059_00059_27668_0078.N1	15-JUN-2007 23:47:49	Bright	44.000	126	60Bet Oph	2.7700	4250.0	88	27668	No
291	GOM_NL__2PRFIN20070615_235020_000000462059_00059_27668_0079.N1	15-JUN-2007 23:50:20	Bright	45.500	59	55Alp Oph	2.0800	8900.0	91	27668	No
292	GOM_NL__2PRFIN20070615_235218_000000372059_00059_27668_0080.N1	15-JUN-2007 23:52:18	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	27668	No
293	GOM_NL__2PRFIN20070615_235520_000000382059_00059_27668_0081.N1	15-JUN-2007 23:55:20	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	27668	No

3. Quality information per product

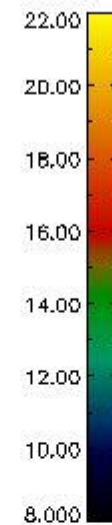
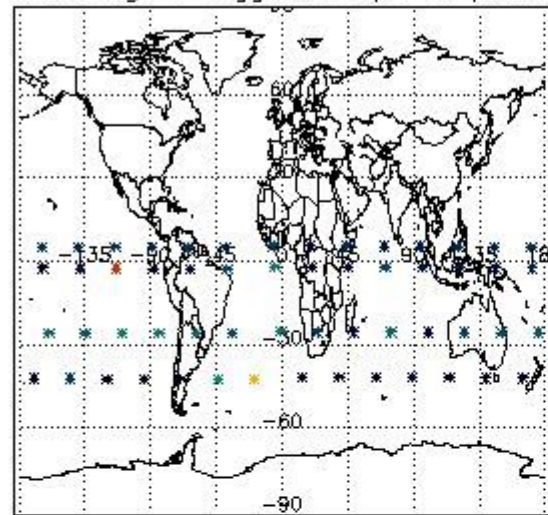
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

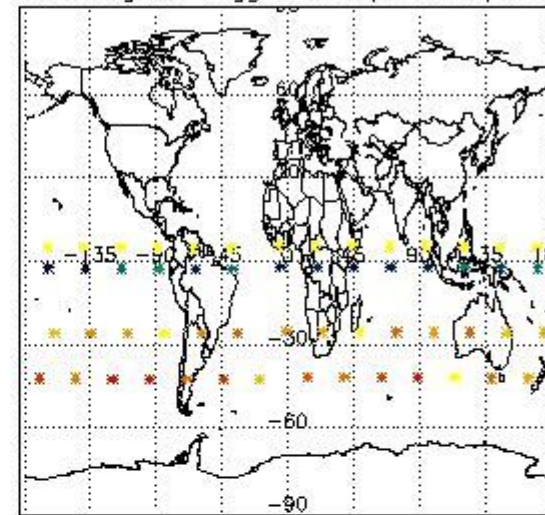


3.2 Plot quality information per product (world map)

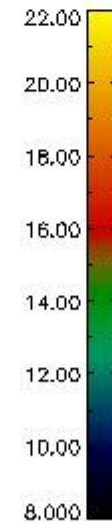
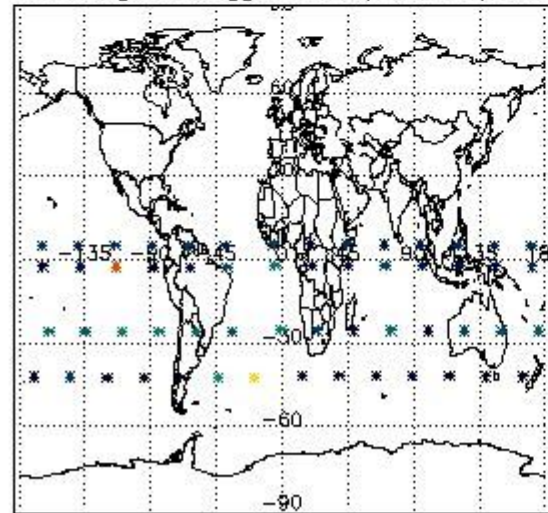
Percentage of flagged data per O3 profile



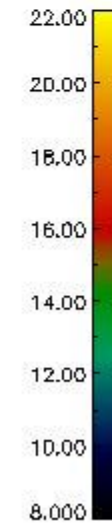
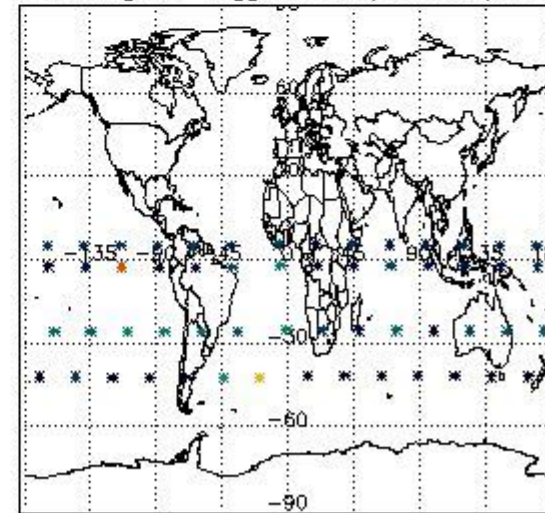
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

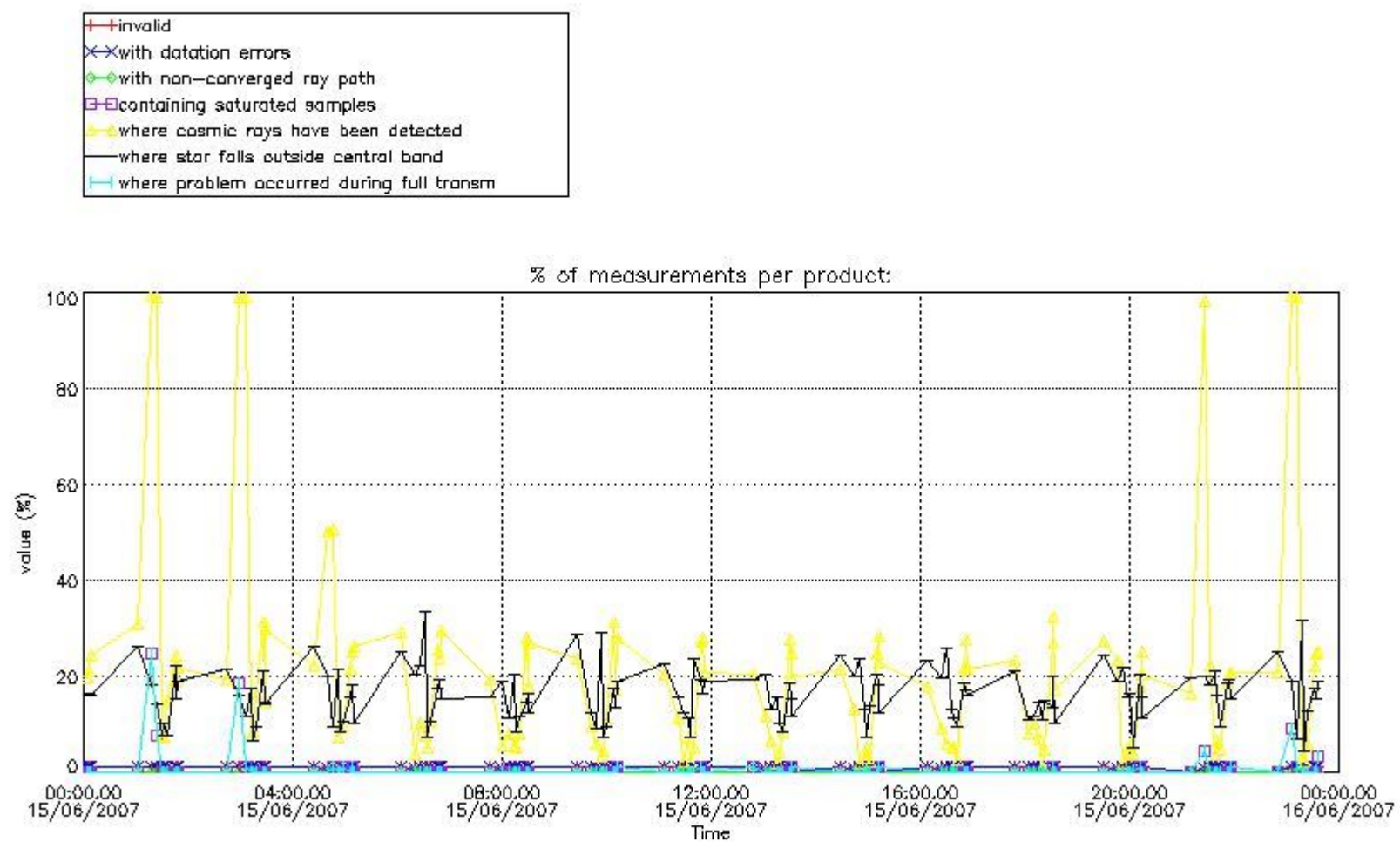


4. Level 1 quality information per product

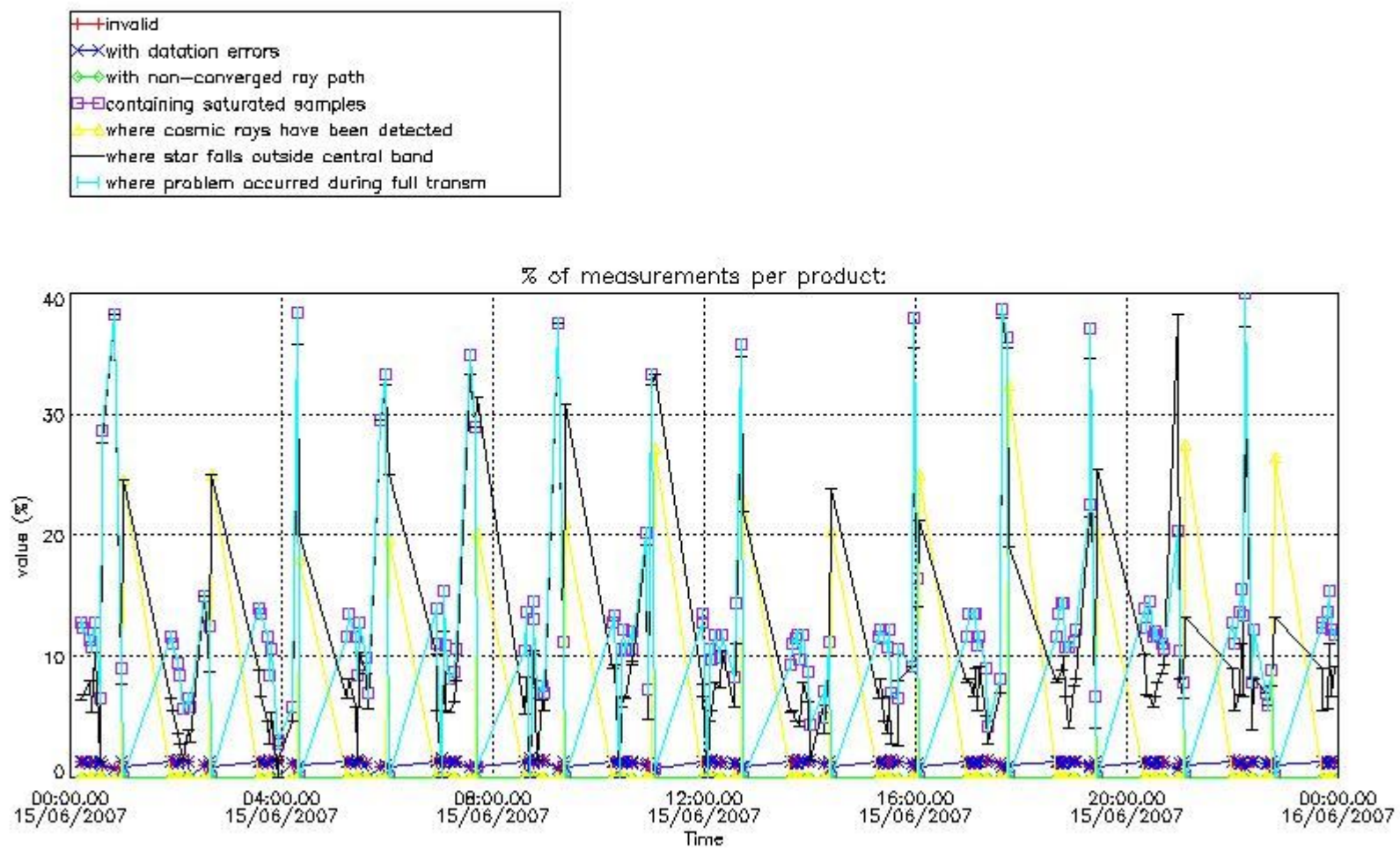
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

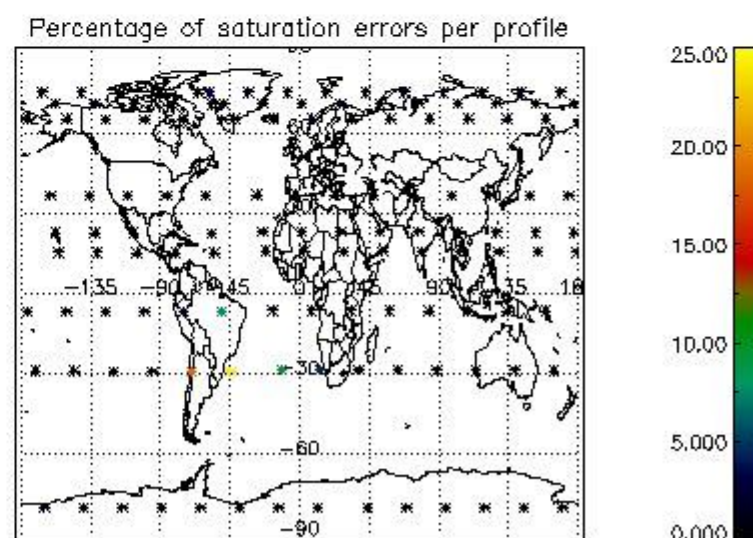
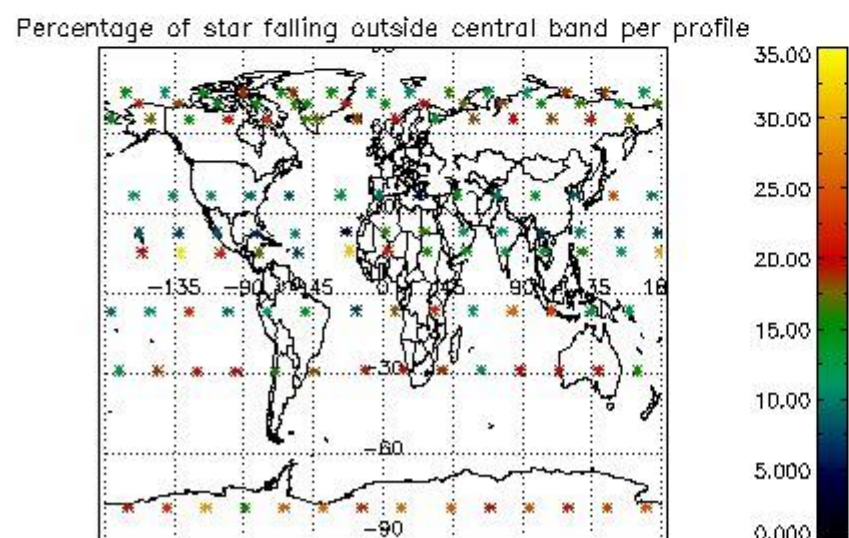
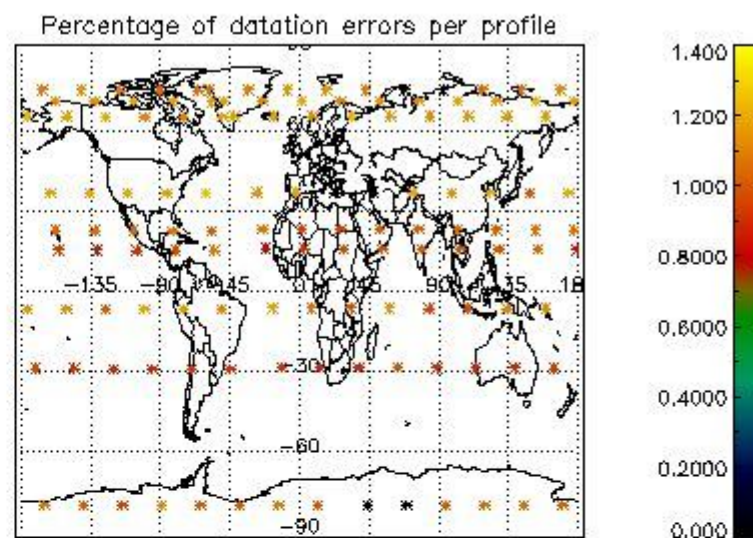
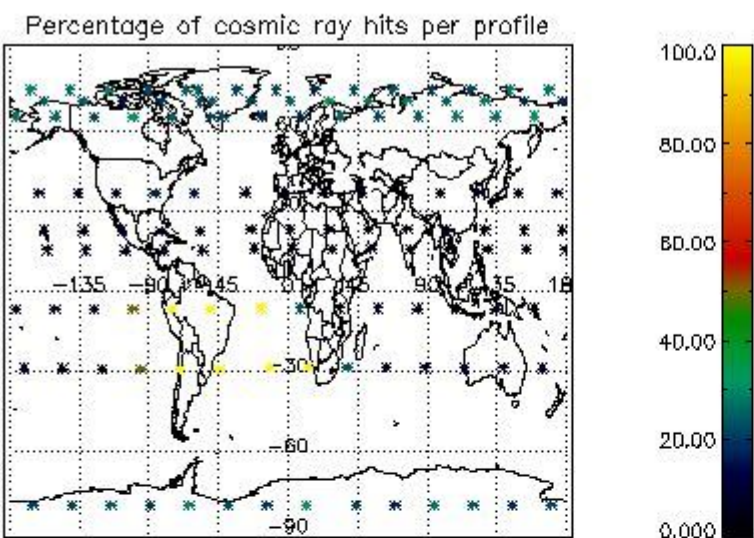


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

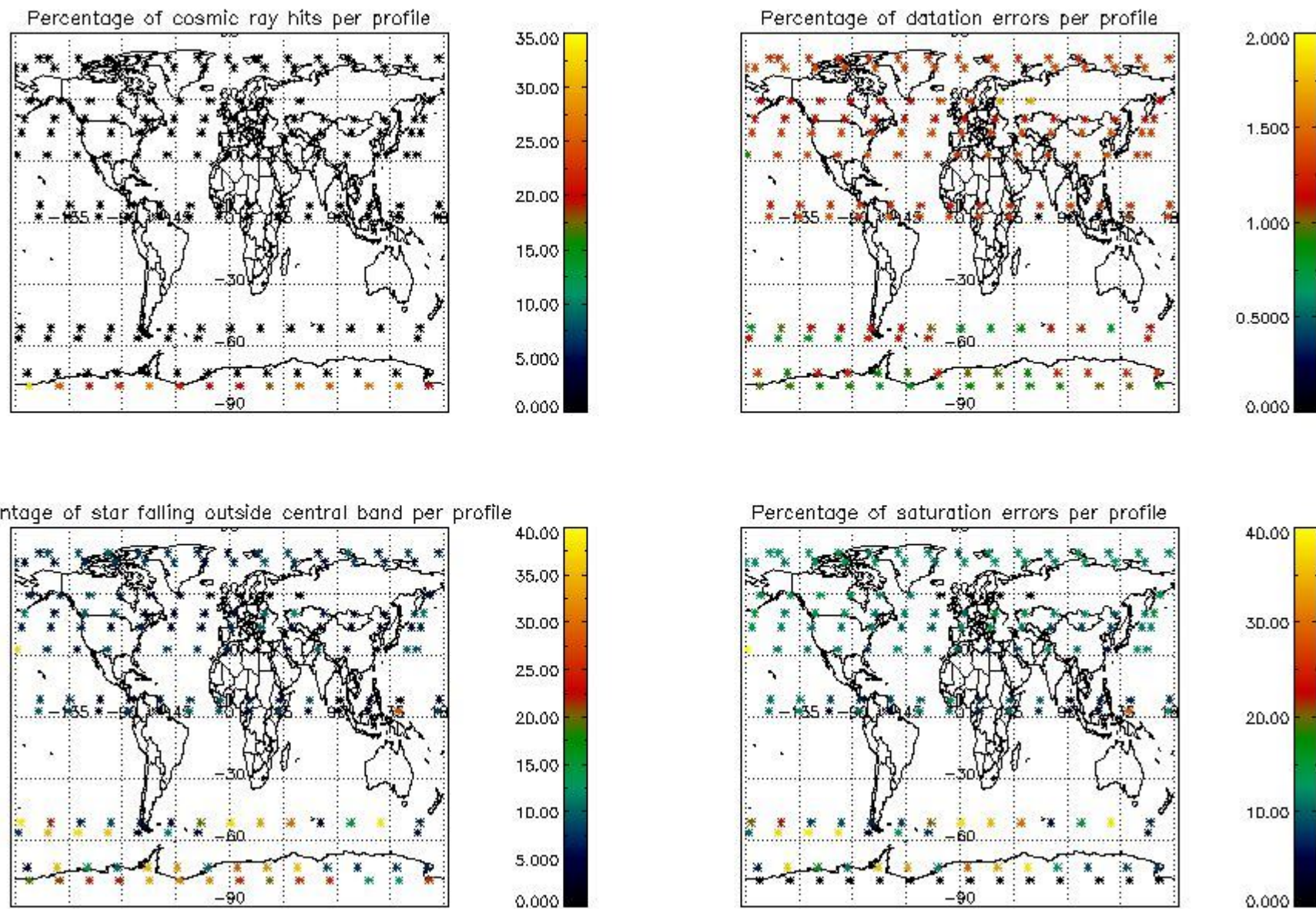


4.2 Plot quality information per product coming from level 1b processing (world map)

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

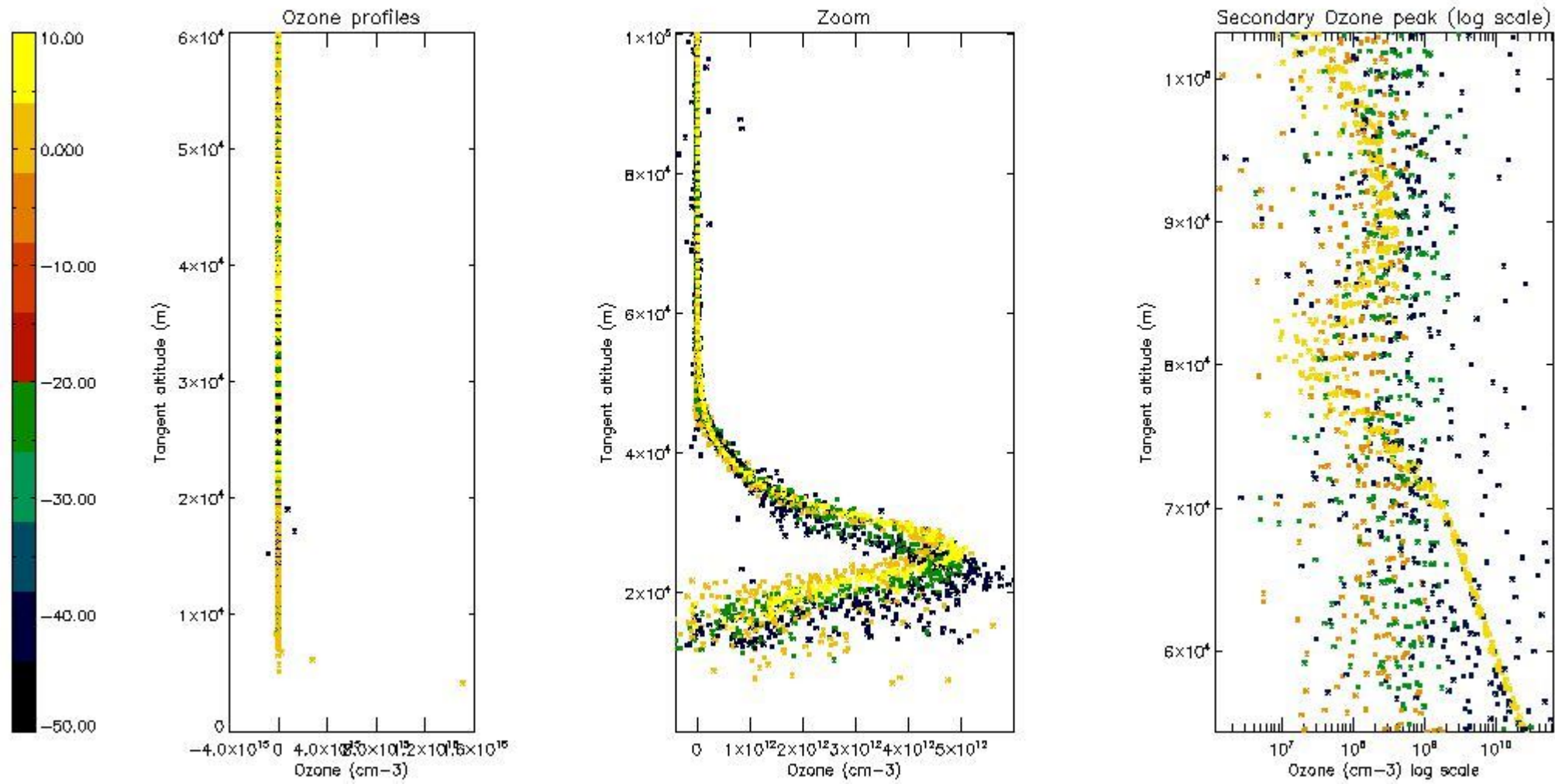
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	23
STD < 20	8

STD < 10	5
STD < 5	3

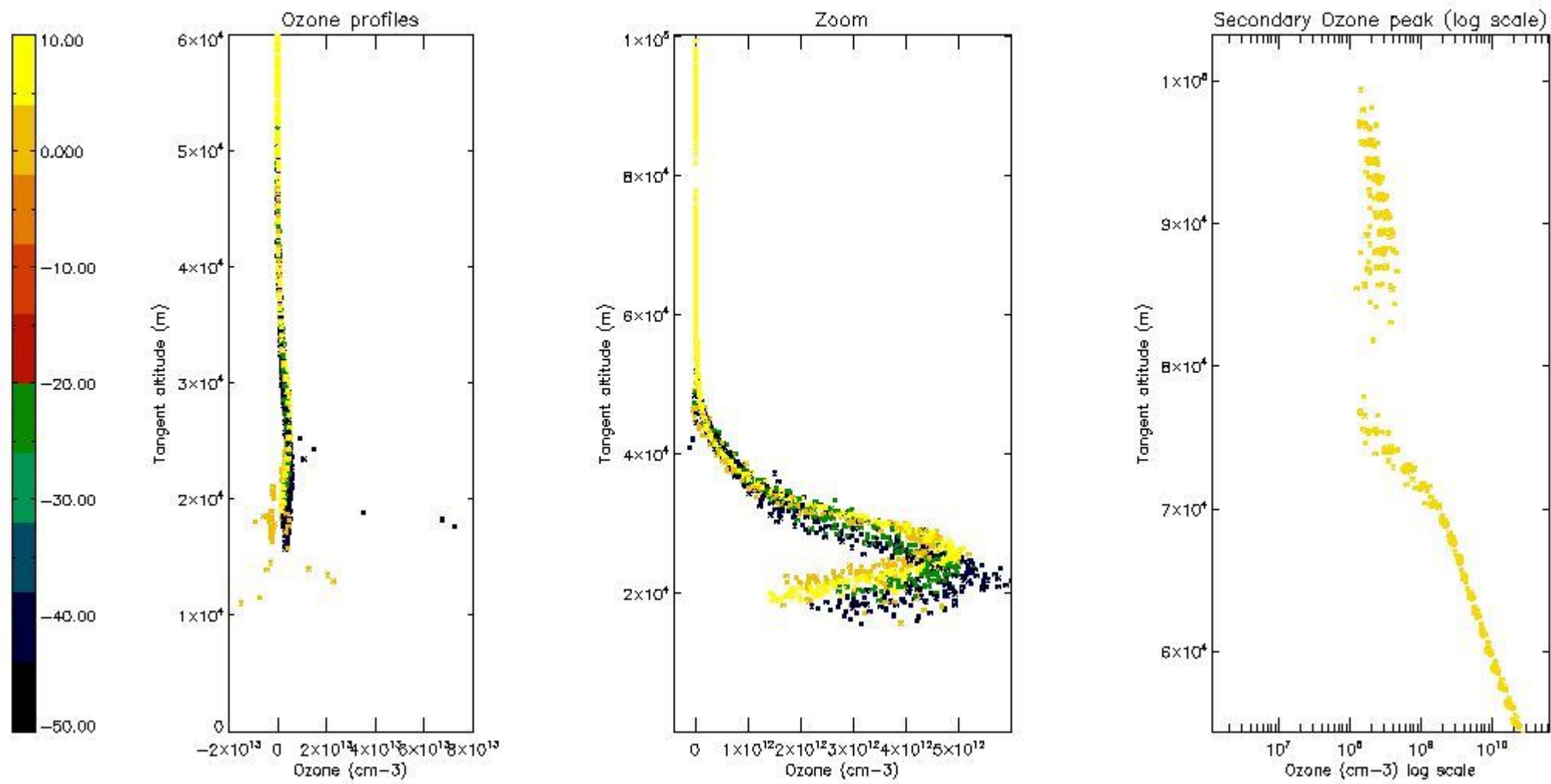
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



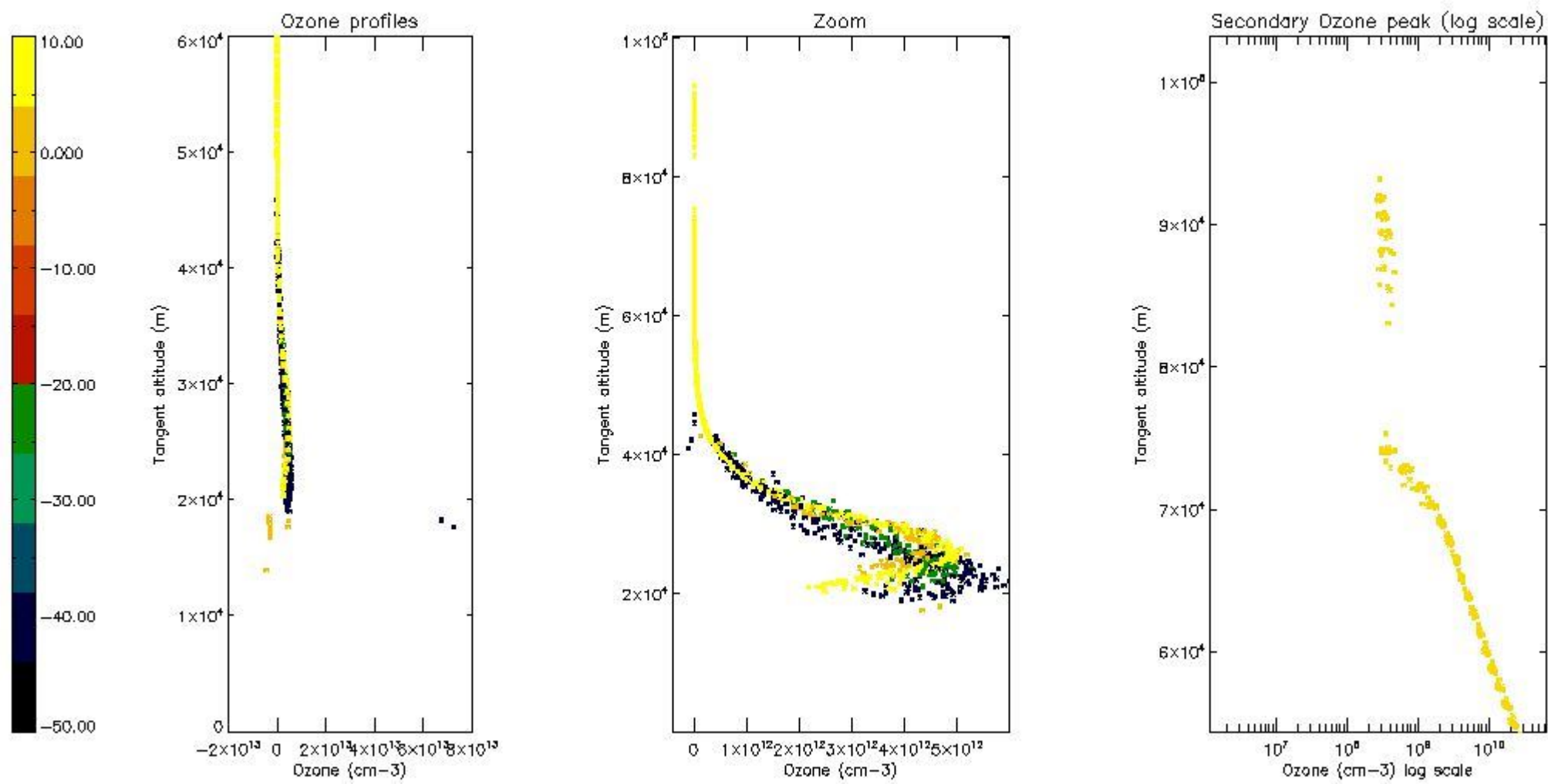
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



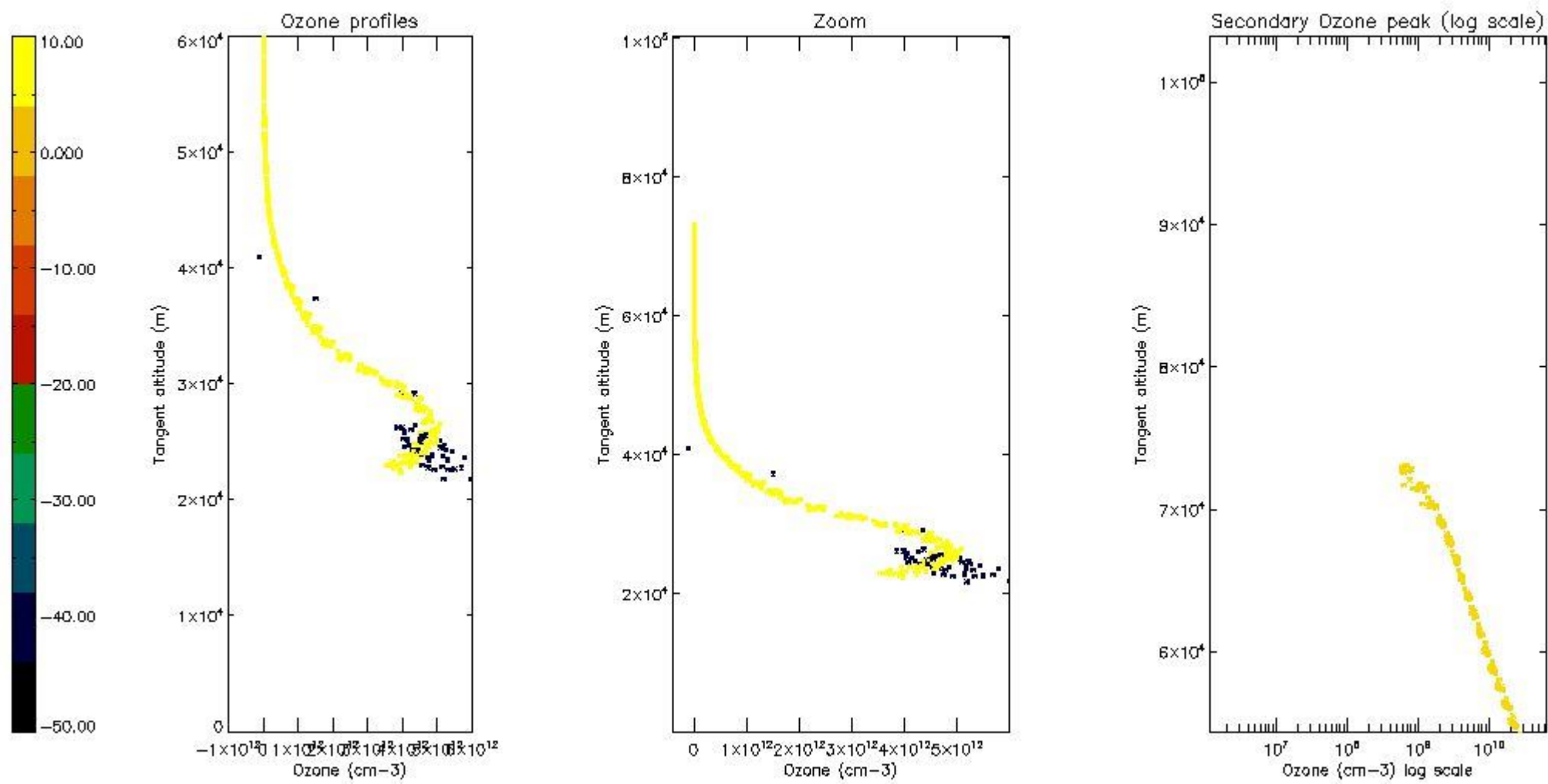
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



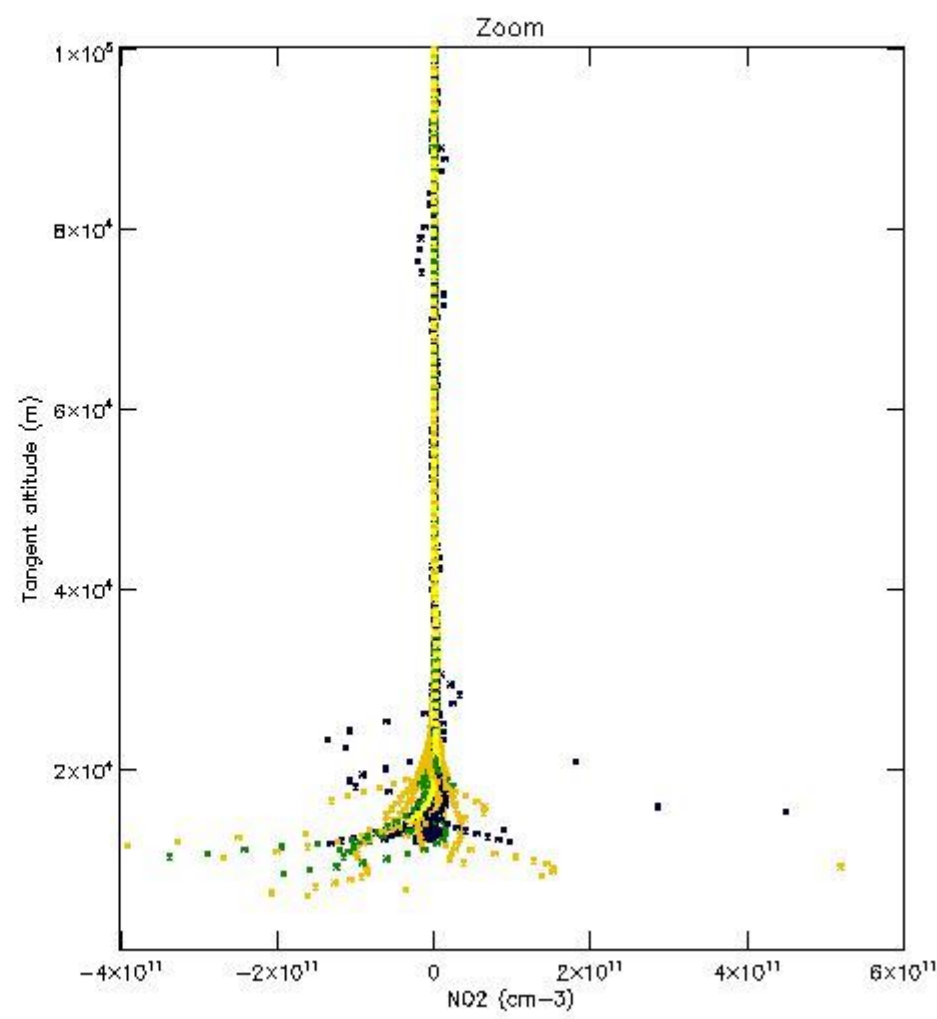
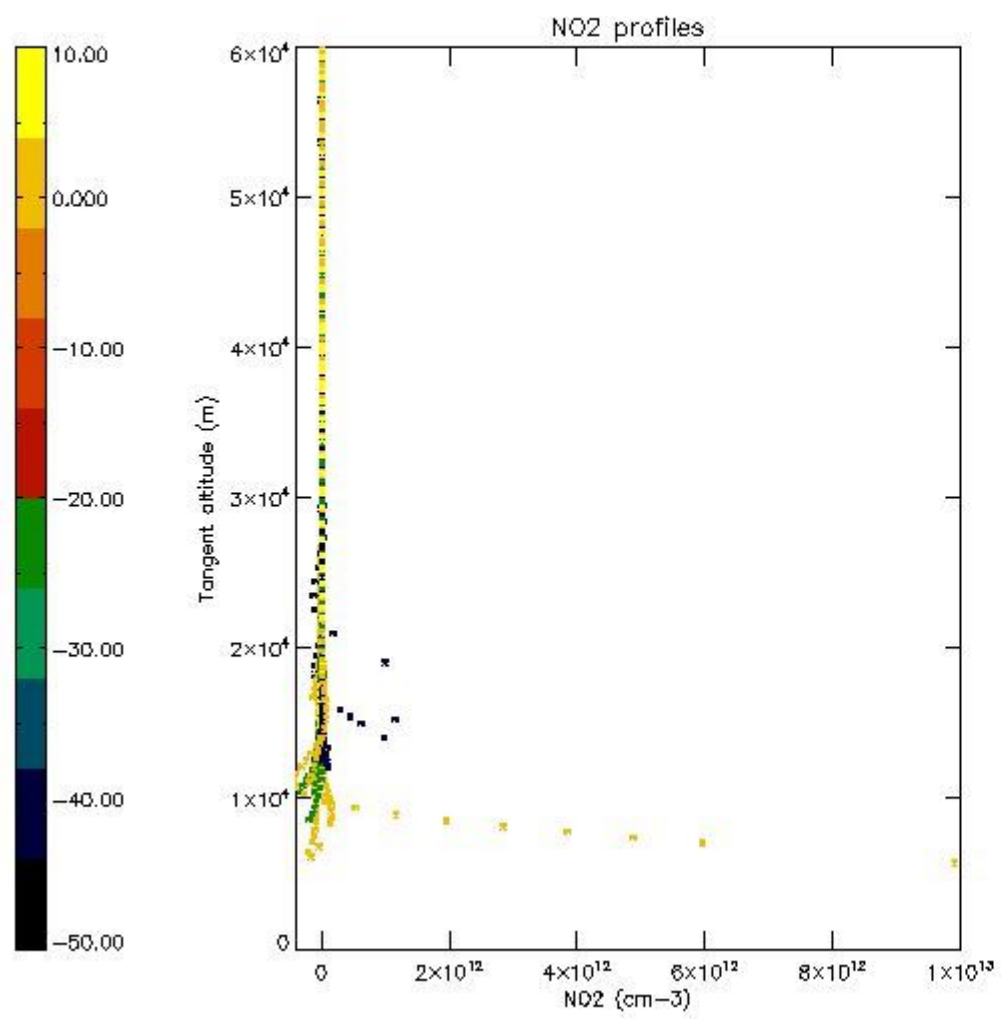
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



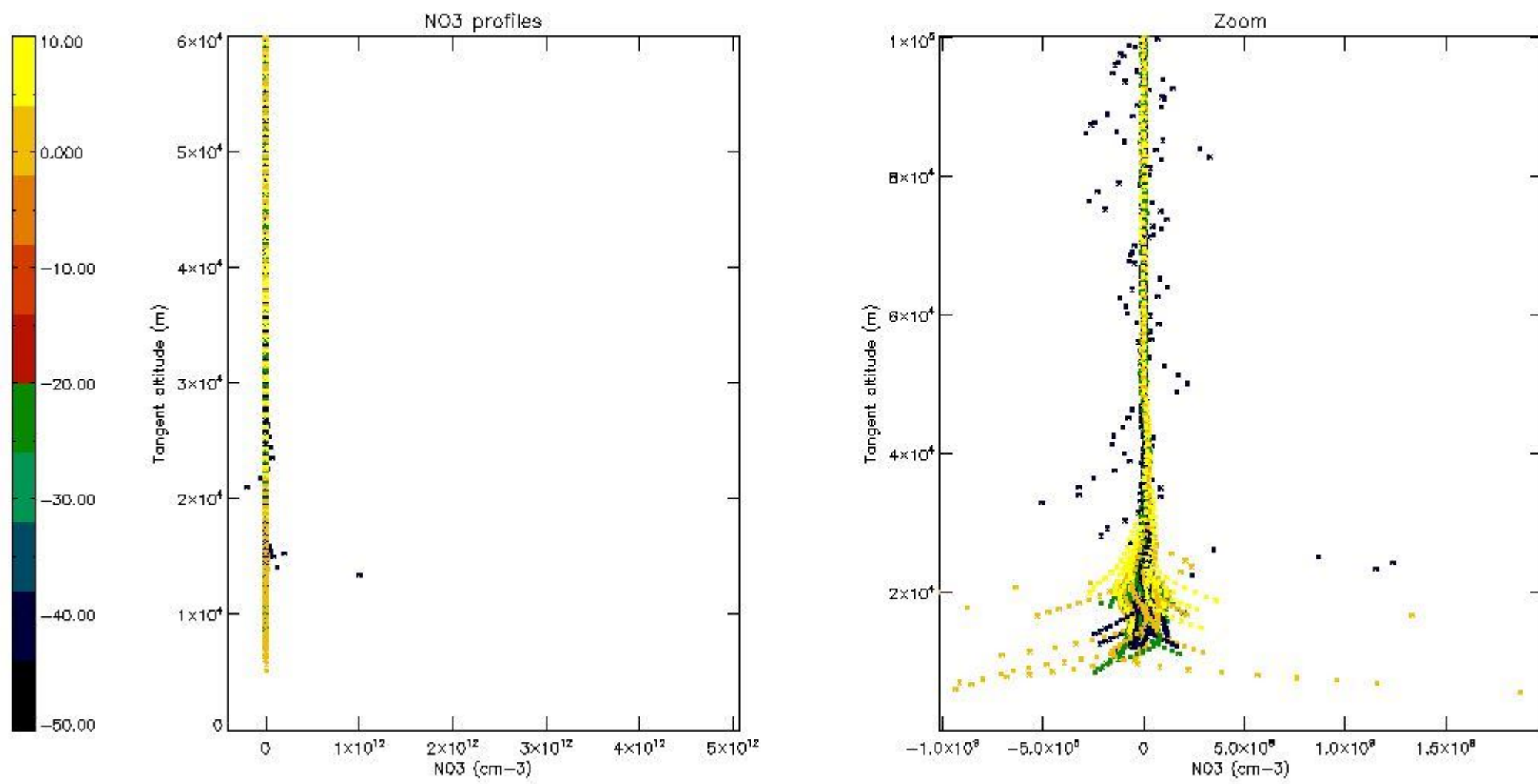
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



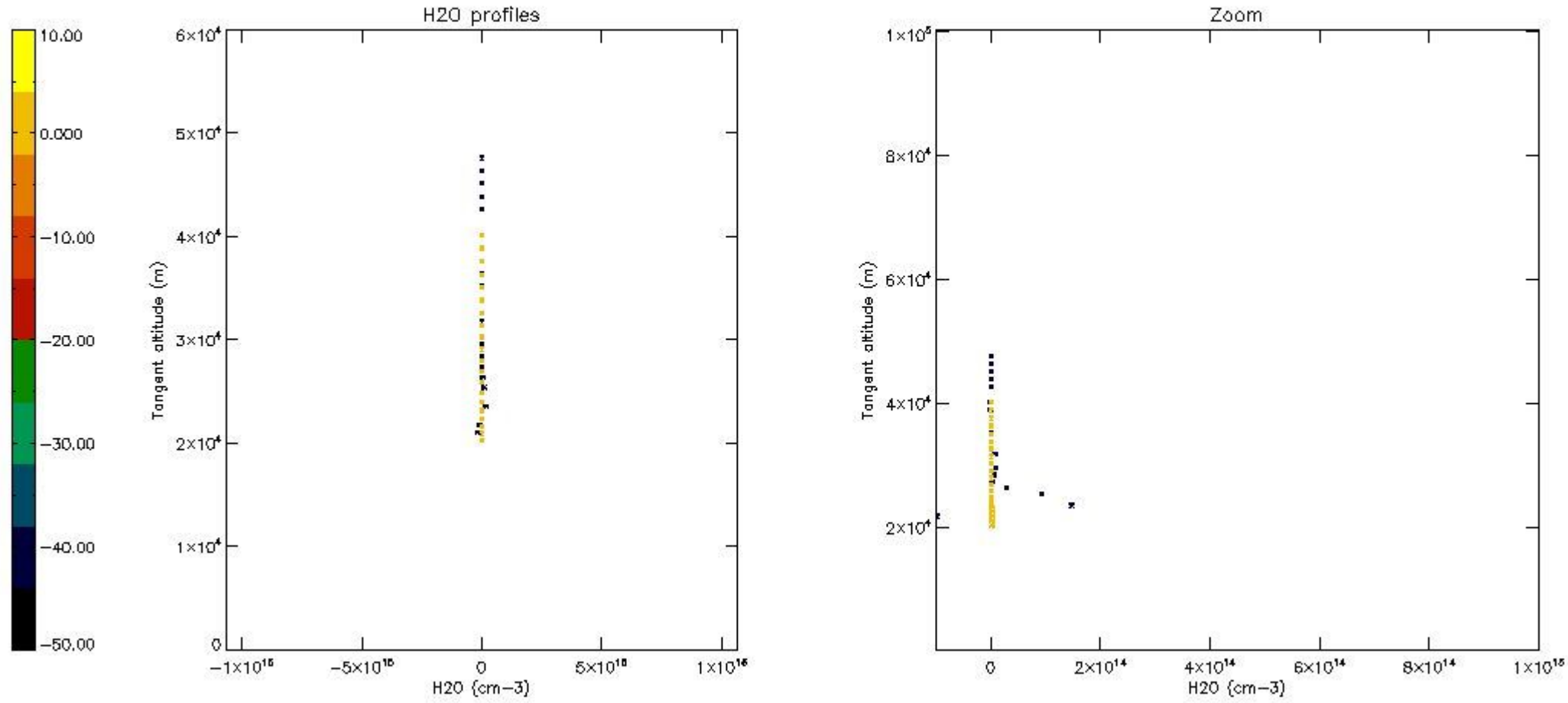
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	15-JUN-2007 00:04:27
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	15-JUN-2007 00:04:27
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	15-JUN-2007 00:04:27

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[1. General Info](#)

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

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

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

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[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](#)

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[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](#)

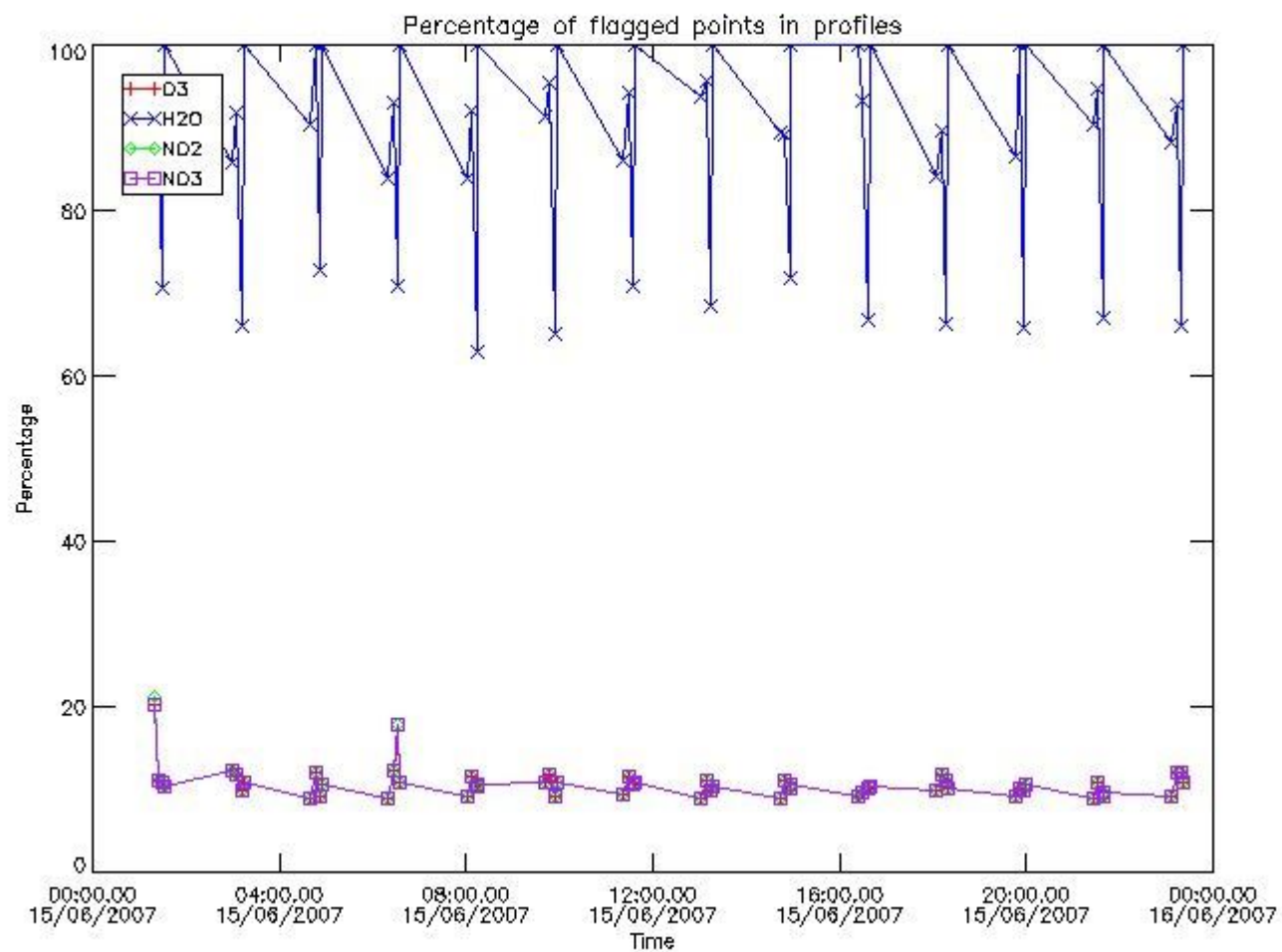
220	GOM_NL__2PRFIN20070615_181901_00000502059_00056_27665_0023.N1	15-JUN-2007 18:19:01	Dark	50.000	31	Alp Gru	1.7340	15200.	100	27665	No
221	GOM_NL__2PRFIN20070615_182254_00000442059_00056_27665_0024.N1	15-JUN-2007 18:22:54	Straylight	44.000	45	Alp Pav	1.9400	26000.	88	27665	No
222	GOM_NL__2PRFIN20070615_183106_00000412059_00056_27665_0025.N1	15-JUN-2007 18:31:06	Twi_and_stray	41.000	40	The Sco	1.8590	7100.0	82	27665	No
223	GOM_NL__2PRFIN20070615_183249_00000452059_00056_27665_0026.N1	15-JUN-2007 18:32:49	Twi_and_stray	45.000	25	35Lam Sco	1.6200	28000.	90	27665	No
224	GOM_NL__2PRFIN20070615_183412_00000442059_00056_27665_0027.N1	15-JUN-2007 18:34:12	Twi_and_stray	44.000	167	10Gam2Sgr	2.9840	4500.0	88	27665	No
225	GOM_NL__2PRFIN20070615_183925_00000392059_00056_27665_0028.N1	15-JUN-2007 18:39:25	Bright	38.500	86	35Eta Oph	2.4300	10200.	77	27665	No
226	GOM_NL__2PRFIN20070615_184110_00000372059_00056_27665_0029.N1	15-JUN-2007 18:41:10	Bright	37.000	98	13Zet Oph	2.5710	30000.	74	27665	No
227	GOM_NL__2PRFIN20070615_184602_00000452059_00056_27665_0030.N1	15-JUN-2007 18:46:02	Bright	45.000	126	60Bet Oph	2.7700	4250.0	90	27665	No
228	GOM_NL__2PRFIN20070615_184834_00000452059_00056_27665_0031.N1	15-JUN-2007 18:48:34	Bright	45.000	59	55Alp Oph	2.0800	8900.0	90	27665	No
229	GOM_NL__2PRFIN20070615_185030_00000372059_00056_27665_0032.N1	15-JUN-2007 18:50:30	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	27665	No
230	GOM_NL__2PRFIN20070615_185333_00000372059_00056_27665_0033.N1	15-JUN-2007 18:53:33	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	27665	No
231	GOM_NL__2PRFIN20070615_190024_00000402059_00056_27665_0034.N1	15-JUN-2007 19:00:24	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	27665	No
232	GOM_NL__2PRFIN20070615_190155_00000372059_00056_27665_0035.N1	15-JUN-2007 19:01:55	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	27665	No
233	GOM_NL__2PRFIN20070615_191713_00000512059_00056_27665_0036.N1	15-JUN-2007 19:17:13	Bright	51.000	74	11Bet Cas	2.2680	6600.0	102	27665	No
234	GOM_NL__2PRFIN20070615_191835_00000622059_00056_27665_0037.N1	15-JUN-2007 19:18:35	Bright	62.000	68	18Alp Cas	2.2250	4500.0	124	27665	No
235	GOM_NL__2PRFIN20070615_192342_00000382059_00056_27665_0038.N1	15-JUN-2007 19:23:42	Bright	37.500	73	57Gam1And	2.2600	13100.	75	27665	No
236	GOM_NL__2PRFIN20070615_192603_00000572059_00056_27665_0039.N1	15-JUN-2007 19:26:03	Twi_and_stray	57.000	53	43Bet And	2.0480	3300.0	114	27665	No
237	GOM_NL__2PRFIN20070615_192932_00000502059_00056_27665_0040.N1	15-JUN-2007 19:29:32	Twilight	49.500	50	13Alp Ari	2.0070	4250.0	99	27665	No
238	GOM_NL__2PRFIN20070615_194508_00000562059_00056_27665_0041.N1	15-JUN-2007 19:45:08	Dark	56.000	52	16Bet Cet	2.0370	4500.0	112	27665	No
239	GOM_NL__2PRFIN20070615_195123_00000512059_00056_27665_0042.N1	15-JUN-2007 19:51:23	Dark	50.500	84	Alp Phe	2.3970	4500.0	101	27665	No
240	GOM_NL__2PRFIN20070615_195735_00000522059_00057_27666_0034.N1	15-JUN-2007 19:57:35	Dark	51.500	63	Bet Gru	2.1500	2800.0	103	27666	No
241	GOM_NL__2PRFIN20070615_195938_00000532059_00057_27666_0035.N1	15-JUN-2007 19:59:38	Dark	52.500	31	Alp Gru	1.7340	15200.	105	27666	No
242	GOM_NL__2PRFIN20070615_200331_00000402059_00057_27666_0036.N1	15-JUN-2007 20:03:31	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	27666	No
243	GOM_NL__2PRFIN20070615_201142_00000452059_00057_27666_0037.N1	15-JUN-2007 20:11:42	Twi_and_stray	44.500	40	The Sco	1.8590	7100.0	89	27666	No
244	GOM_NL__2PRFIN20070615_201325_00000422059_00057_27666_0038.N1	15-JUN-2007 20:13:25	Twi_and_stray	42.000	25	35Lam Sco	1.6200	28000.	84	27666	No
245	GOM_NL__2PRFIN20070615_201448_00000442059_00057_27666_0039.N1	15-JUN-2007 20:14:48	Twi_and_stray	44.000	167	10Gam2Sgr	2.9840	4500.0	88	27666	No
246	GOM_NL__2PRFIN20070615_202001_00000402059_00057_27666_0040.N1	15-JUN-2007 20:20:01	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	27666	No
247	GOM_NL__2PRFIN20070615_202146_00000372059_00057_27666_0041.N1	15-JUN-2007 20:21:46	Bright	36.500	98	13Zet Oph	2.5710	30000.	73	27666	No
248	GOM_NL__2PRFIN20070615_202637_00000452059_00057_27666_0042.N1	15-JUN-2007 20:26:37	Bright	44.500	126	60Bet Oph	2.7700	4250.0	89	27666	No
249	GOM_NL__2PRFIN20070615_202909_00000432059_00057_27666_0043.N1	15-JUN-2007 20:29:09	Bright	43.000	59	55Alp Oph	2.0800	8900.0	86	27666	No
250	GOM_NL__2PRFIN20070615_203106_00000382059_00057_27666_0044.N1	15-JUN-2007 20:31:06	Bright	37.500	127	27Bet Her	2.7810	4700.0	75	27666	No
251	GOM_NL__2PRFIN20070615_203409_00000382059_00057_27666_0045.N1	15-JUN-2007 20:34:09	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	27666	No
252	GOM_NL__2PRFIN20070615_204059_00000412059_00057_27666_0046.N1	15-JUN-2007 20:40:59	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	27666	No
253	GOM_NL__2PRFIN20070615_204231_00000382059_00057_27666_0047.N1	15-JUN-2007 20:42:31	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	27666	No
254	GOM_NL__2PRFIN20070615_205749_00000642059_00057_27666_0048.N1	15-JUN-2007 20:57:49	Bright	64.000	74	11Bet Cas	2.2680	6600.0	128	27666	No
255	GOM_NL__2PRFIN20070615_205911_00000432059_00057_27666_0049.N1	15-JUN-2007 20:59:11	Bright	43.000	68	18Alp Cas	2.2250	4500.0	86	27666	No
256	GOM_NL__2PRFIN20070615_210418_00000392059_00057_27666_0050.N1	15-JUN-2007 21:04:18	Bright	38.500	73	57Gam1And	2.2600	13100.	77	27666	No
257	GOM_NL__2PRFIN20070615_210640_00000492059_00057_27666_0051.N1	15-JUN-2007 21:06:40	Twi_and_stray	49.000	53	43Bet And	2.0480	3300.0	98	27666	No
258	GOM_NL__2PRFIN20070615_211008_00000462059_00057_27666_0052.N1	15-JUN-2007 21:10:08	Twilight	45.500	50	13Alp Ari	2.0070	4250.0	91	27666	No
259	GOM_NL__2PRFIN20070615_212545_00000572059_00057_27666_0053.N1	15-JUN-2007 21:25:45	Dark	57.000	52	16Bet Cet	2.0370	4500.0	114	27666	No
260	GOM_NL__2PRFIN20070615_213200_00000472059_00057_27666_0054.N1	15-JUN-2007 21:32:00	Dark	47.000	84	Alp Phe	2.3970	4500.0	94	27666	No
261	GOM_NL__2PRFIN20070615_213812_00000552059_00058_27667_0059.N1	15-JUN-2007 21:38:12	Dark	55.000	63	Bet Gru	2.1500	2800.0	110	27667	No
262	GOM_NL__2PRFIN20070615_214015_00000532059_00058_27667_0060.N1	15-JUN-2007 21:40:15	Dark	53.000	31	Alp Gru	1.7340	15200.	106	27667	No
263	GOM_NL__2PRFIN20070615_214407_00000422059_00058_27667_0061.N1	15-JUN-2007 21:44:07	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	27667	No
264	GOM_NL__2PRFIN20070615_215218_00000432059_00058_27667_0062.N1	15-JUN-2007 21:52:18	Twi_and_stray	43.000	40	The Sco	1.8590	7100.0	86	27667	No
265	GOM_NL__2PRFIN20070615_215401_00000452059_00058_27667_0063.N1	15-JUN-2007 21:54:01	Twi_and_stray	44.500	25	35Lam Sco	1.6200	28000.	89	27667	No
266	GOM_NL__2PRFIN20070615_215524_00000462059_00058_27667_0064.N1	15-JUN-2007 21:55:24	Twi_and_stray	46.000	167	10Gam2Sgr	2.9840	4500.0	92	27667	No
267	GOM_NL__2PRFIN20070615_220037_00000392059_00058_27667_0065.N1	15-JUN-2007 22:00:37	Bright	39.000	86	35Eta Oph	2.4300	10200.	78	27667	No
268	GOM_NL__2PRFIN20070615_220222_00000362059_00058_27667_0066.N1	15-JUN-2007 22:02:22	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	27667	No
269	GOM_NL__2PRFIN20070615_220713_00000442059_00058_27667_0067.N1	15-JUN-2007 22:07:13	Bright	44.000	126	60Bet Oph	2.7700	4250.0	88	27667	No
270	GOM_NL__2PRFIN20070615_220945_00000452059_00058_27667_0068.N1	15-JUN-2007 22:09:45	Bright	45.000	59	55Alp Oph	2.0800	8900.0	90	27667	No
271	GOM_NL__2PRFIN20070615_221142_00000382059_00058_27667_0069.N1	15-JUN-2007 22:11:42	Bright	37.500	127	27Bet Her	2.7810	4700.0	75	27667	No
272	GOM_NL__2PRFIN20070615_221445_00000552059_00058_27667_0070.N1	15-JUN-2007 22:14:45	Bright	55.000	133	40Zet Her	2.8070	6000.0	110	27667	No
273	GOM_NL__2PRFIN20070615_222135_00000392059_00058_27667_0071.N1	15-JUN-2007 22:21:35	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	27667	No
274	GOM_NL__2PRFIN20070615_222306_00000372059_00058_27667_0072.N1	15-JUN-2007 22:23:06	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	27667	No
275	GOM_NL__2PRFIN20070615_223824_00000432059_00058_27667_0073.N1	15-JUN-2007 22:38:24	Bright	43.000	74	11Bet Cas	2.2680	6600.0	86	27667	No
276	GOM_NL__2PRFIN20070615_223947_00000422059_00058_27667_0074.N1	15-JUN-2007 22:39:47	Bright	41.500	68	18Alp Cas	2.2250	4500.0	83	27667	No
277	GOM_NL__2PRFIN20070615_224454_00000402059_00058_27667_0075.N1	15-JUN-2007 22:44:54	Bright	39.500	73	57Gam1And	2.2600	13100.	79	27667	No
278	GOM_NL__2PRFIN20070615_224715_00000492059_00058_27667_0076.N1	15-JUN-2007 22:47:15	Twi_and_stray	49.000	53	43Bet And	2.0480	3300.0	98	27667	No

279	GOM_NL__2PRFIN20070615_225044_000000482059_00058_27667_0077.N1	15-JUN-2007 22:50:44	Twilight	48.000	50	13Alp Ari	2.0070	4250.0	96	27667	No
280	GOM_NL__2PRFIN20070615_230622_000000552059_00058_27667_0078.N1	15-JUN-2007 23:06:22	Dark	55.000	52	16Bet Cet	2.0370	4500.0	110	27667	No
281	GOM_NL__2PRFIN20070615_231236_000000432059_00058_27667_0079.N1	15-JUN-2007 23:12:36	Dark	42.500	84	Alp Phe	2.3970	4500.0	85	27667	No
282	GOM_NL__2PRFIN20070615_231848_000000642059_00059_27668_0070.N1	15-JUN-2007 23:18:48	Dark	63.500	63	Bet Gru	2.1500	2800.0	127	27668	No
283	GOM_NL__2PRFIN20070615_232051_000000472059_00059_27668_0071.N1	15-JUN-2007 23:20:51	Dark	46.500	31	Alp Gru	1.7340	15200.	93	27668	No
284	GOM_NL__2PRFIN20070615_232444_000000442059_00059_27668_0072.N1	15-JUN-2007 23:24:44	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	27668	No
285	GOM_NL__2PRFIN20070615_233254_000000432059_00059_27668_0073.N1	15-JUN-2007 23:32:54	Twilight_and_stray	43.000	40	The Sco	1.8590	7100.0	86	27668	No
286	GOM_NL__2PRFIN20070615_233437_000000432059_00059_27668_0074.N1	15-JUN-2007 23:34:37	Twilight_and_stray	42.500	25	35Lam Sco	1.6200	28000.	85	27668	No
287	GOM_NL__2PRFIN20070615_233600_000000482059_00059_27668_0075.N1	15-JUN-2007 23:36:00	Twilight_and_stray	48.000	167	10Gam2Sgr	2.9840	4500.0	96	27668	No
288	GOM_NL__2PRFIN20070615_234113_000000392059_00059_27668_0076.N1	15-JUN-2007 23:41:13	Bright	39.000	86	35Eta Oph	2.4300	10200.	78	27668	No
289	GOM_NL__2PRFIN20070615_234258_000000372059_00059_27668_0077.N1	15-JUN-2007 23:42:58	Bright	36.500	98	13Zet Oph	2.5710	30000.	73	27668	No
290	GOM_NL__2PRFIN20070615_234749_000000442059_00059_27668_0078.N1	15-JUN-2007 23:47:49	Bright	44.000	126	60Bet Oph	2.7700	4250.0	88	27668	No
291	GOM_NL__2PRFIN20070615_235020_000000462059_00059_27668_0079.N1	15-JUN-2007 23:50:20	Bright	45.500	59	55Alp Oph	2.0800	8900.0	91	27668	No
292	GOM_NL__2PRFIN20070615_235218_000000372059_00059_27668_0080.N1	15-JUN-2007 23:52:18	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	27668	No
293	GOM_NL__2PRFIN20070615_235520_000000382059_00059_27668_0081.N1	15-JUN-2007 23:55:20	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	27668	No

3. Quality information per product

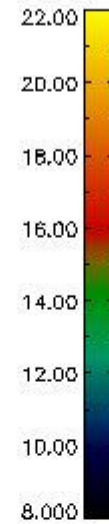
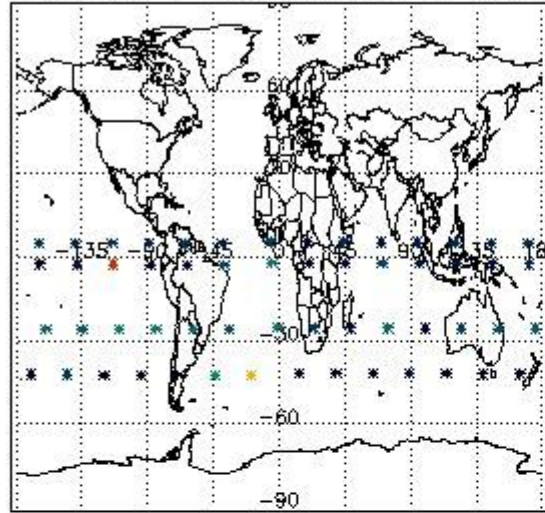
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

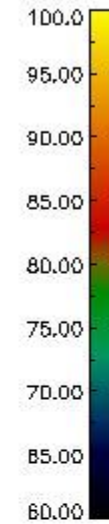
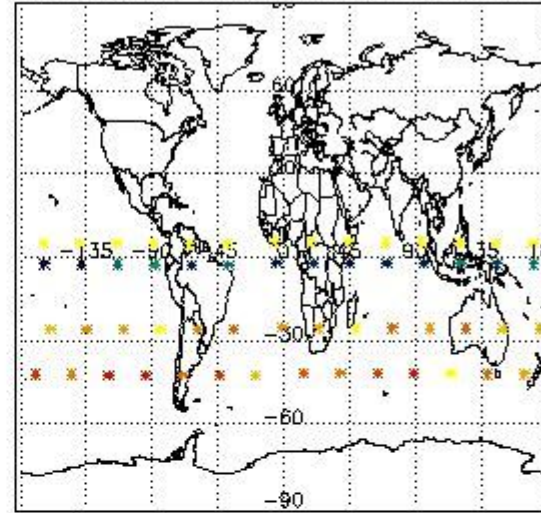


3.2 Plot quality information per product (world map)

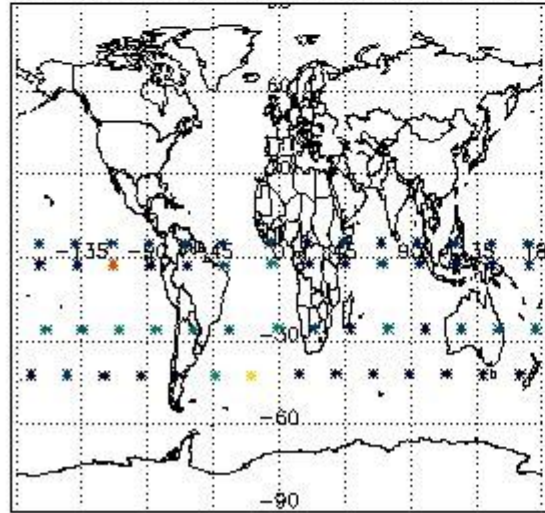
Percentage of flagged data per O3 profile



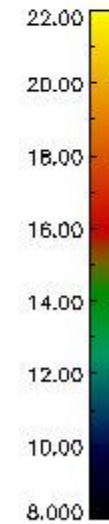
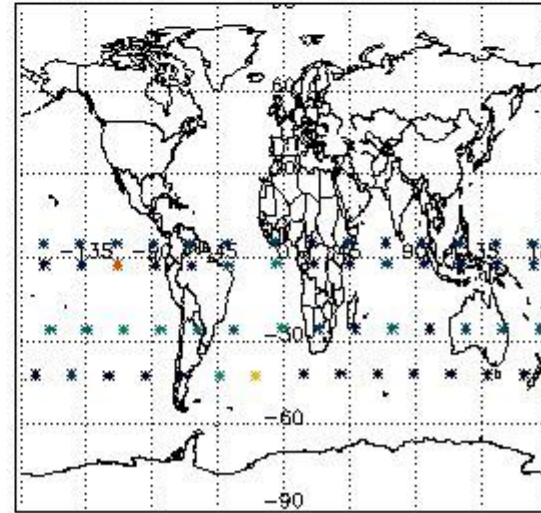
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

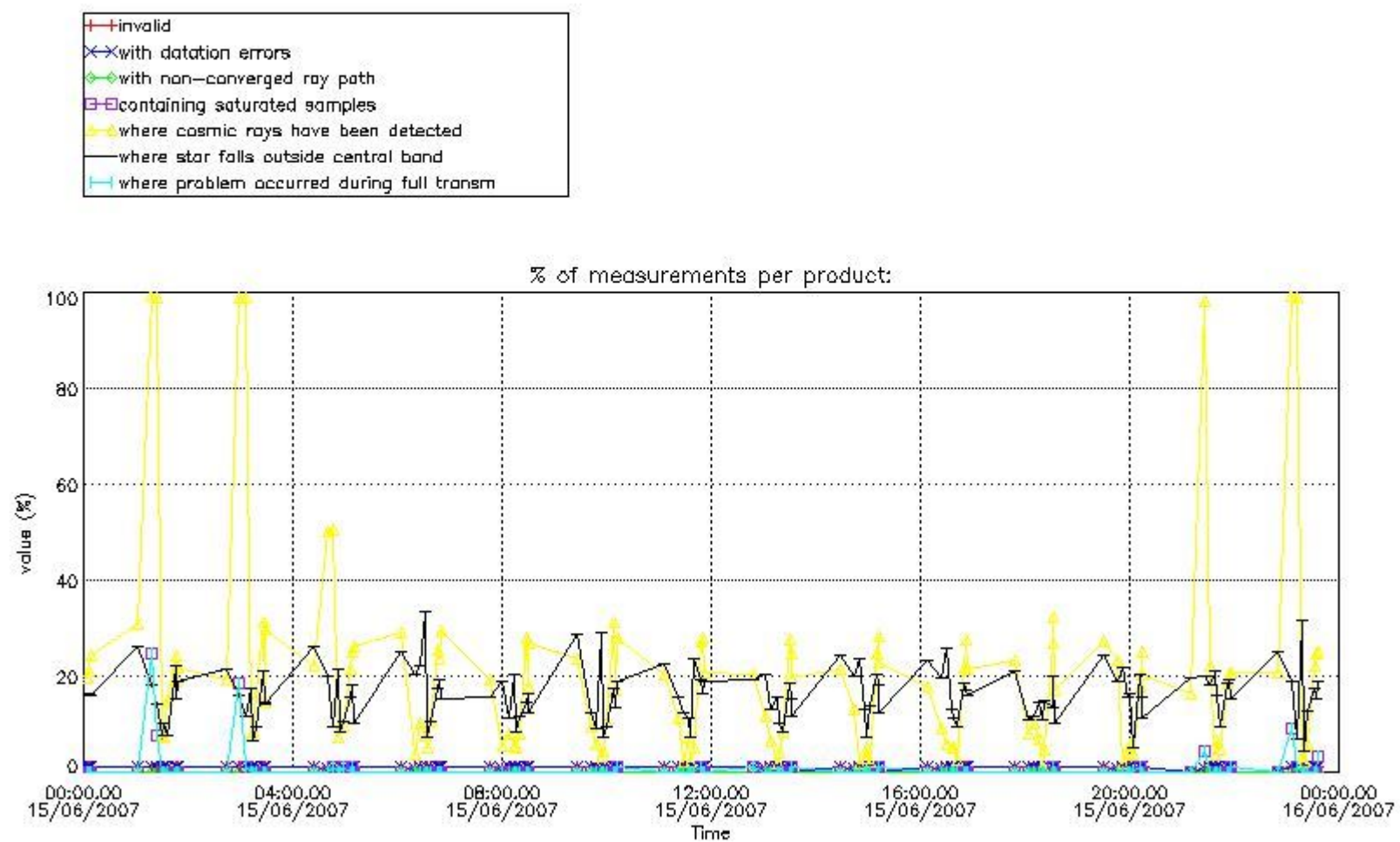


4. Level 1 quality information per product

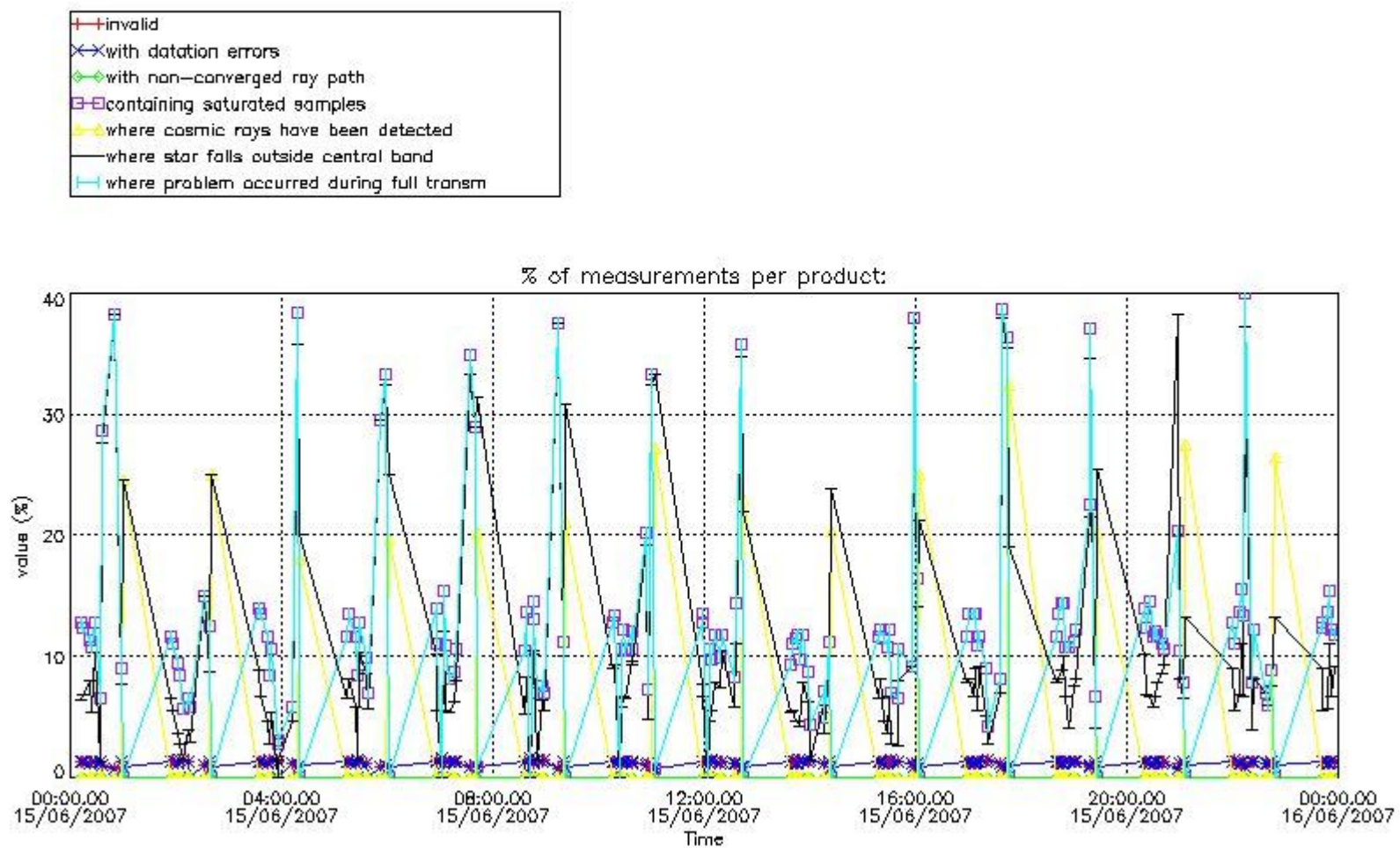
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

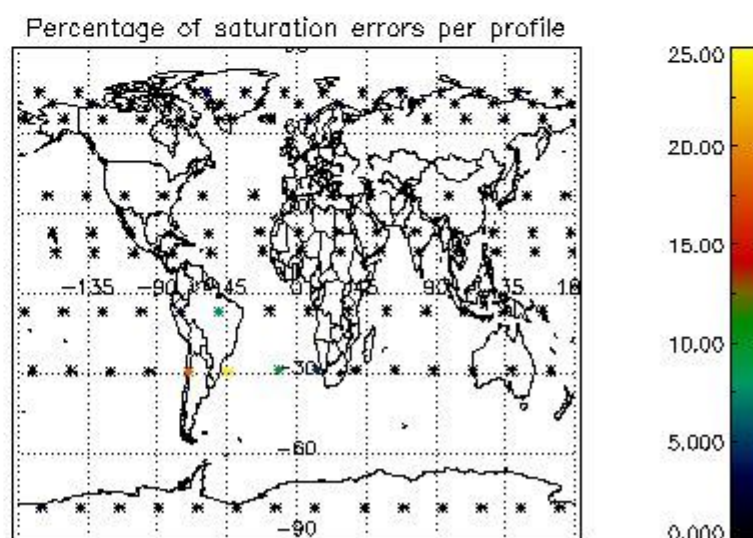
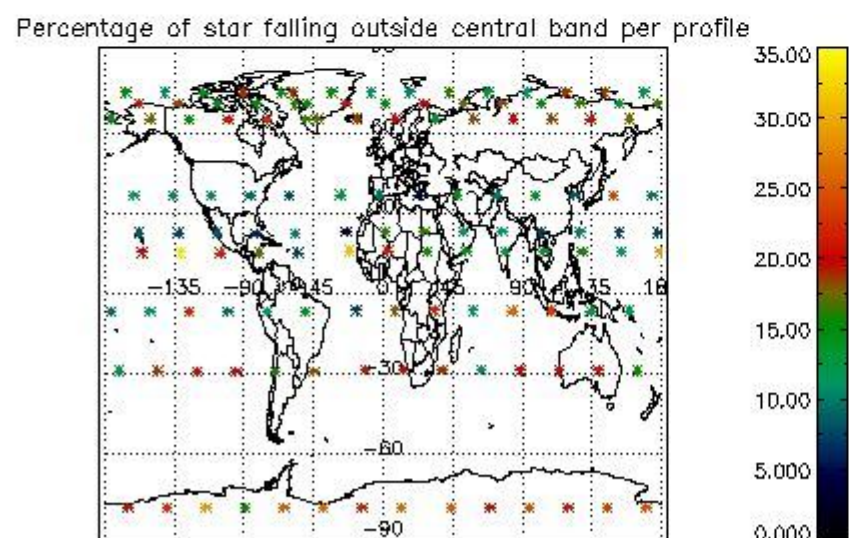
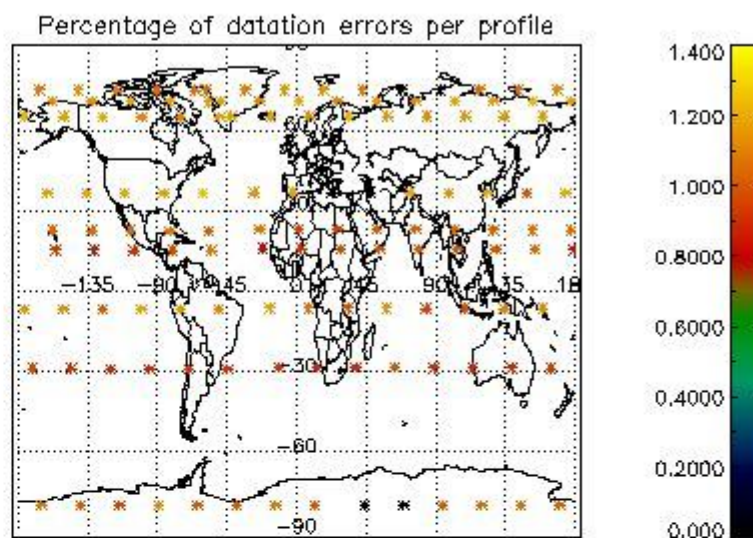
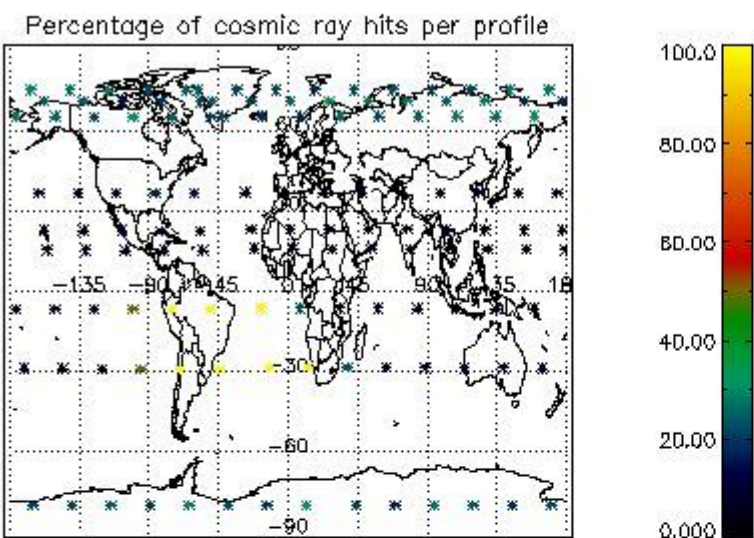


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

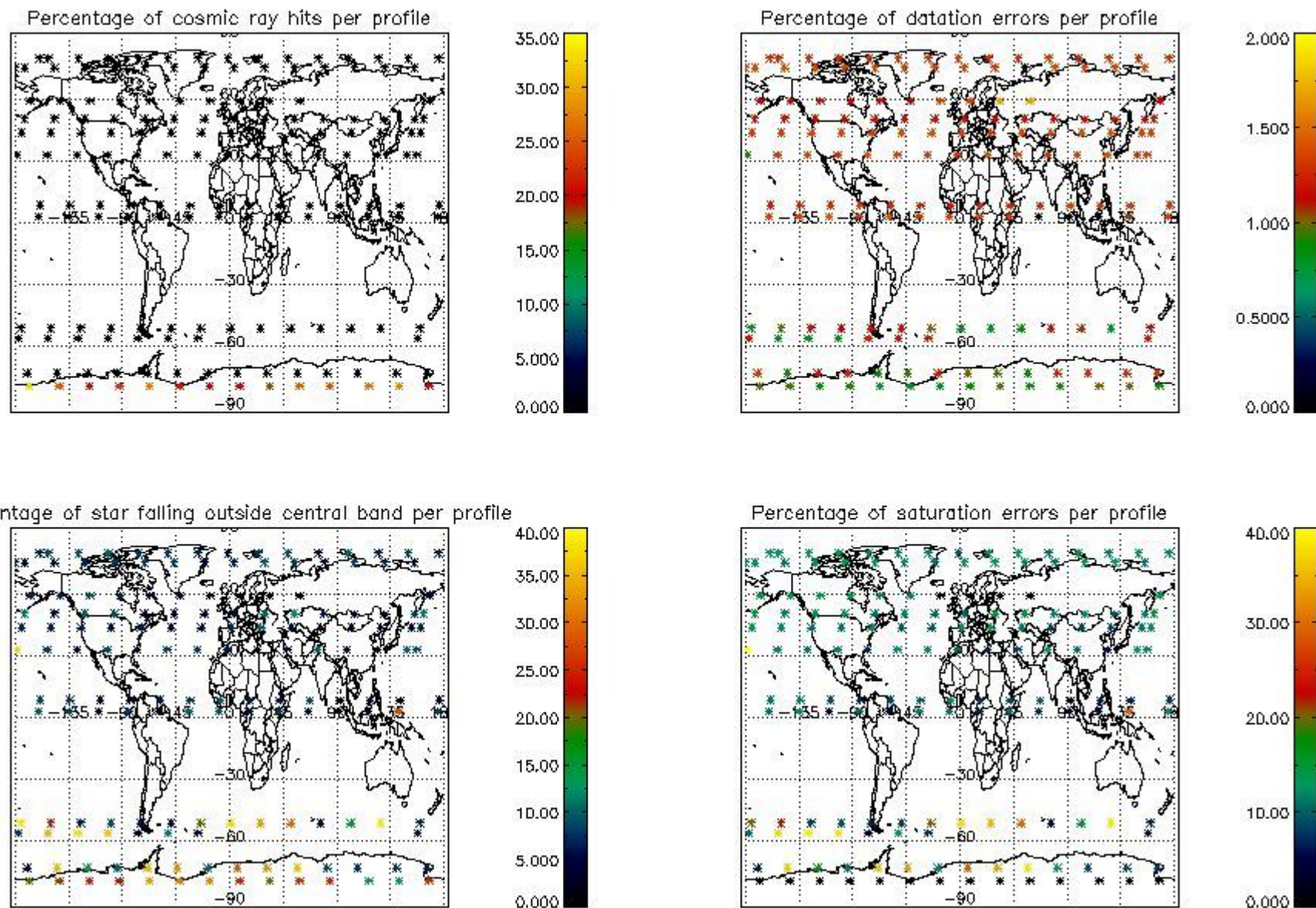


4.2 Plot quality information per product coming from level 1b processing (world map)

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

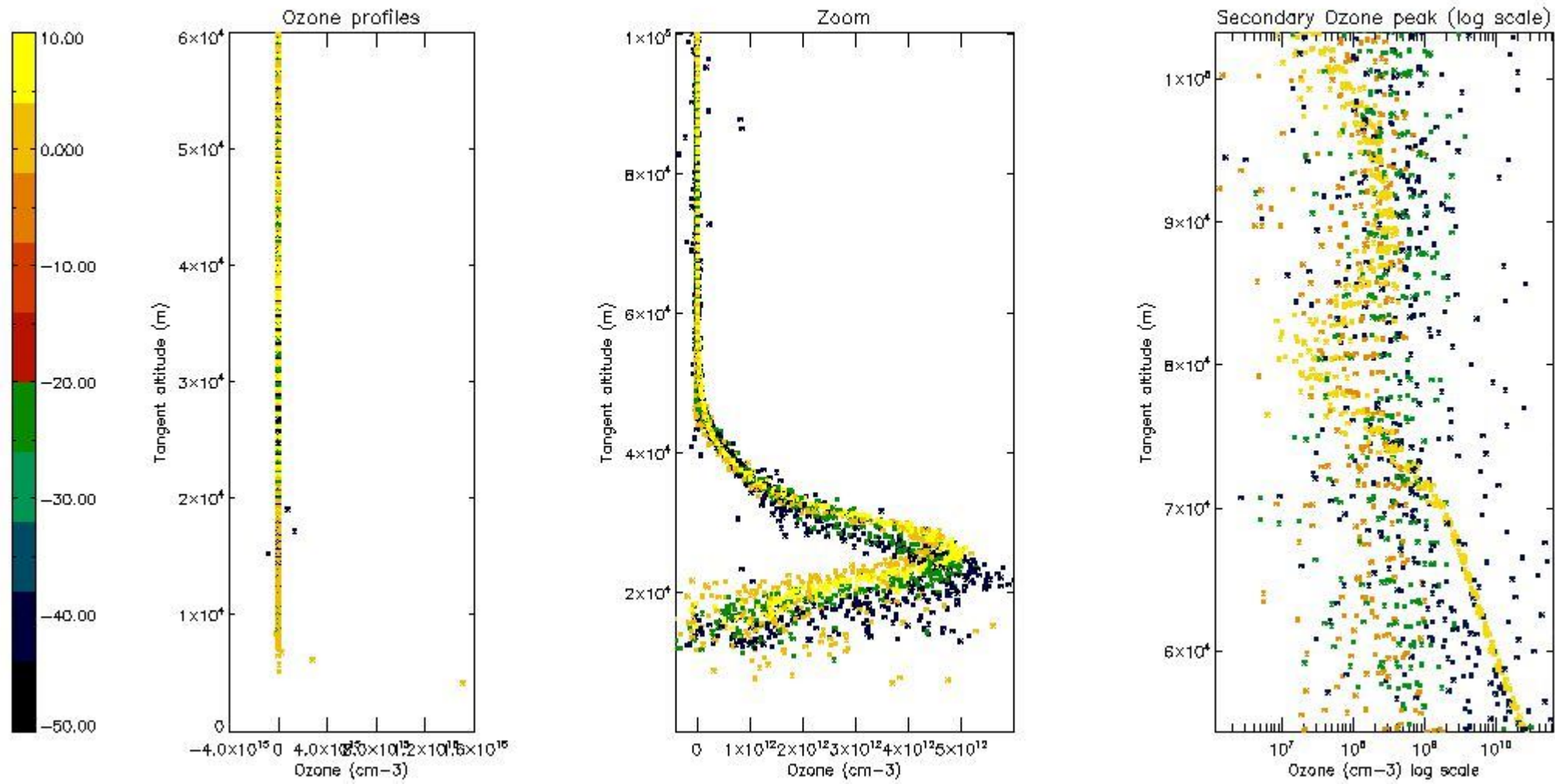
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	23
STD < 20	8

STD < 10	5
STD < 5	3

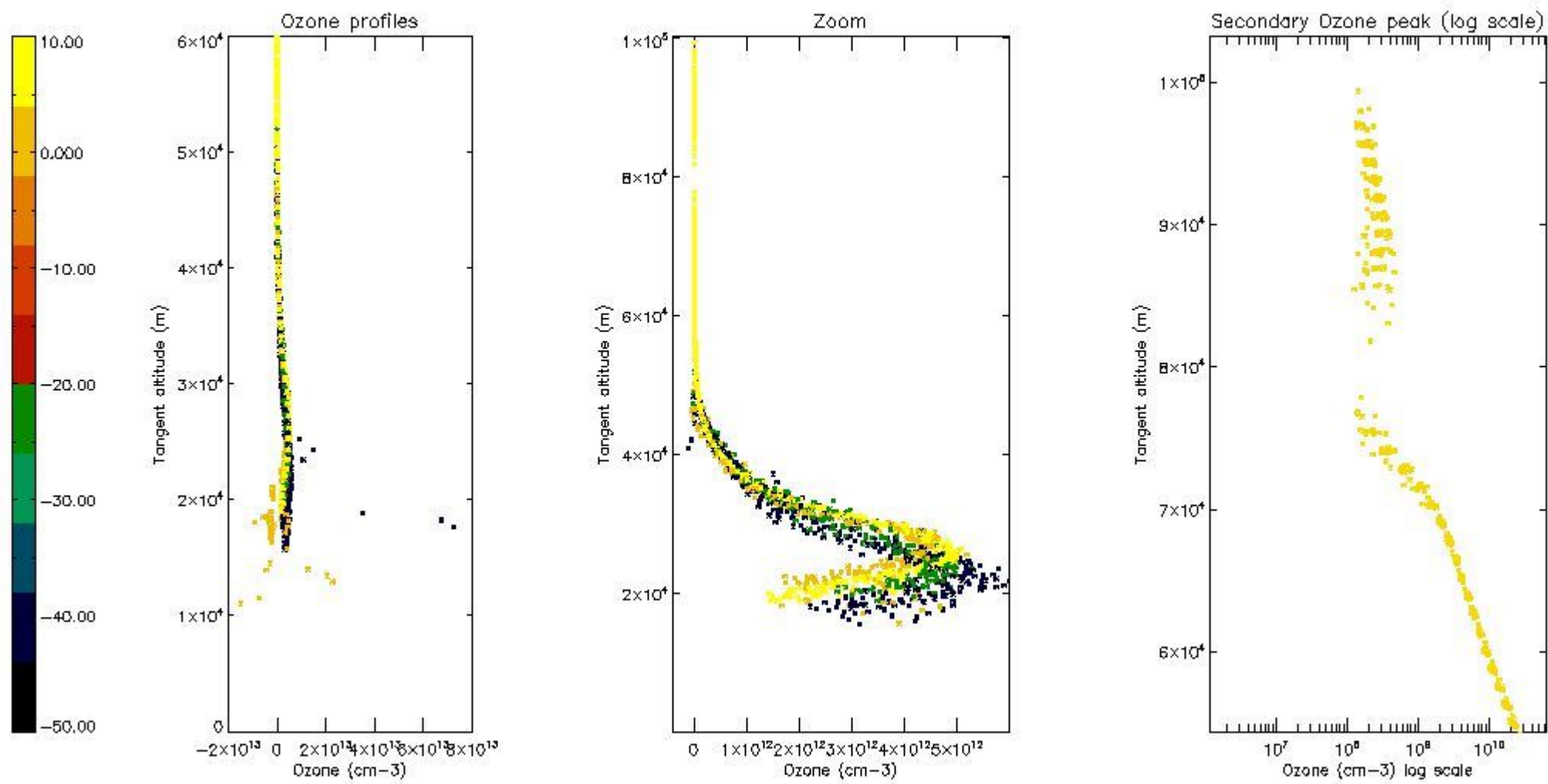
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



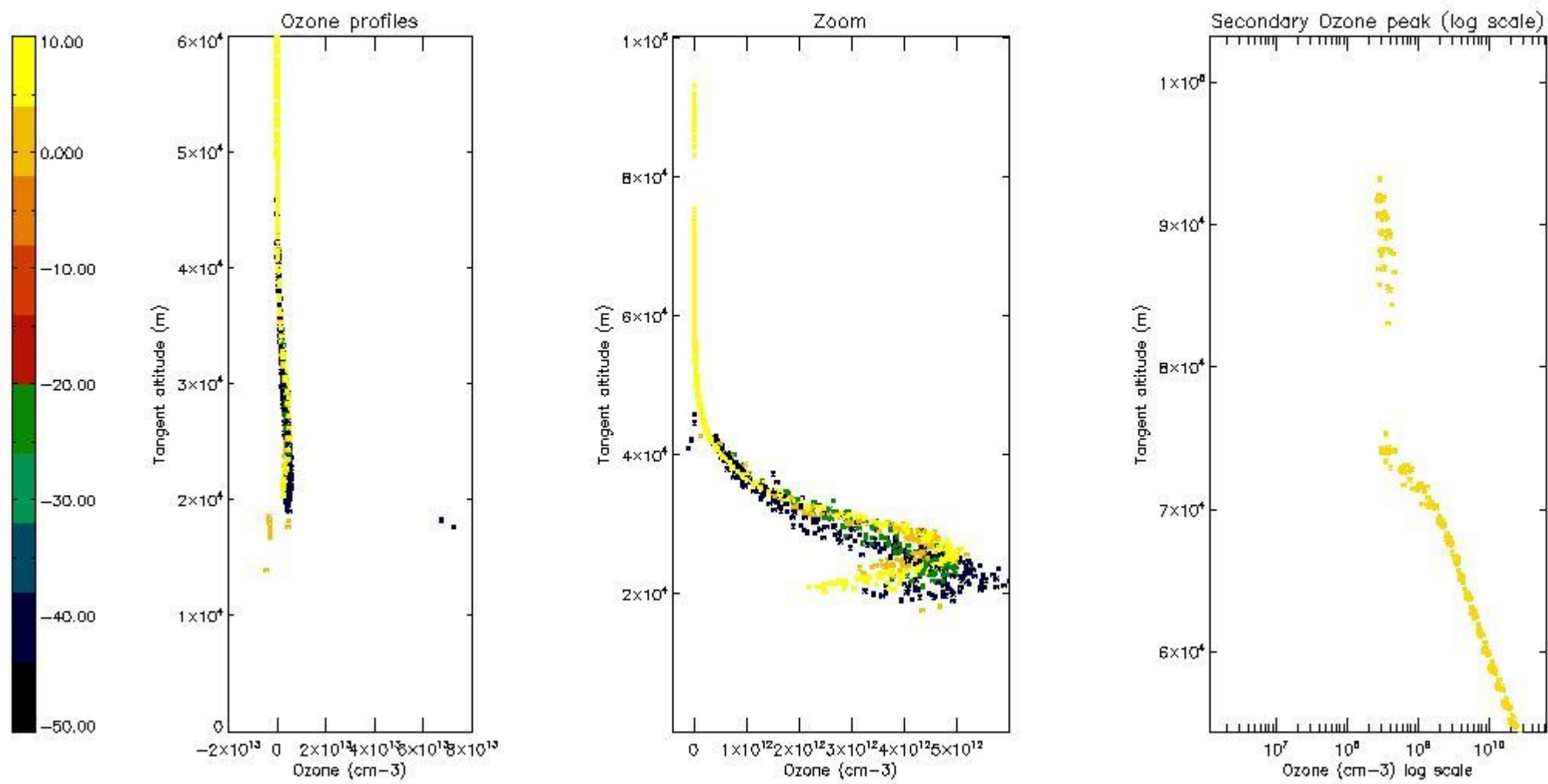
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



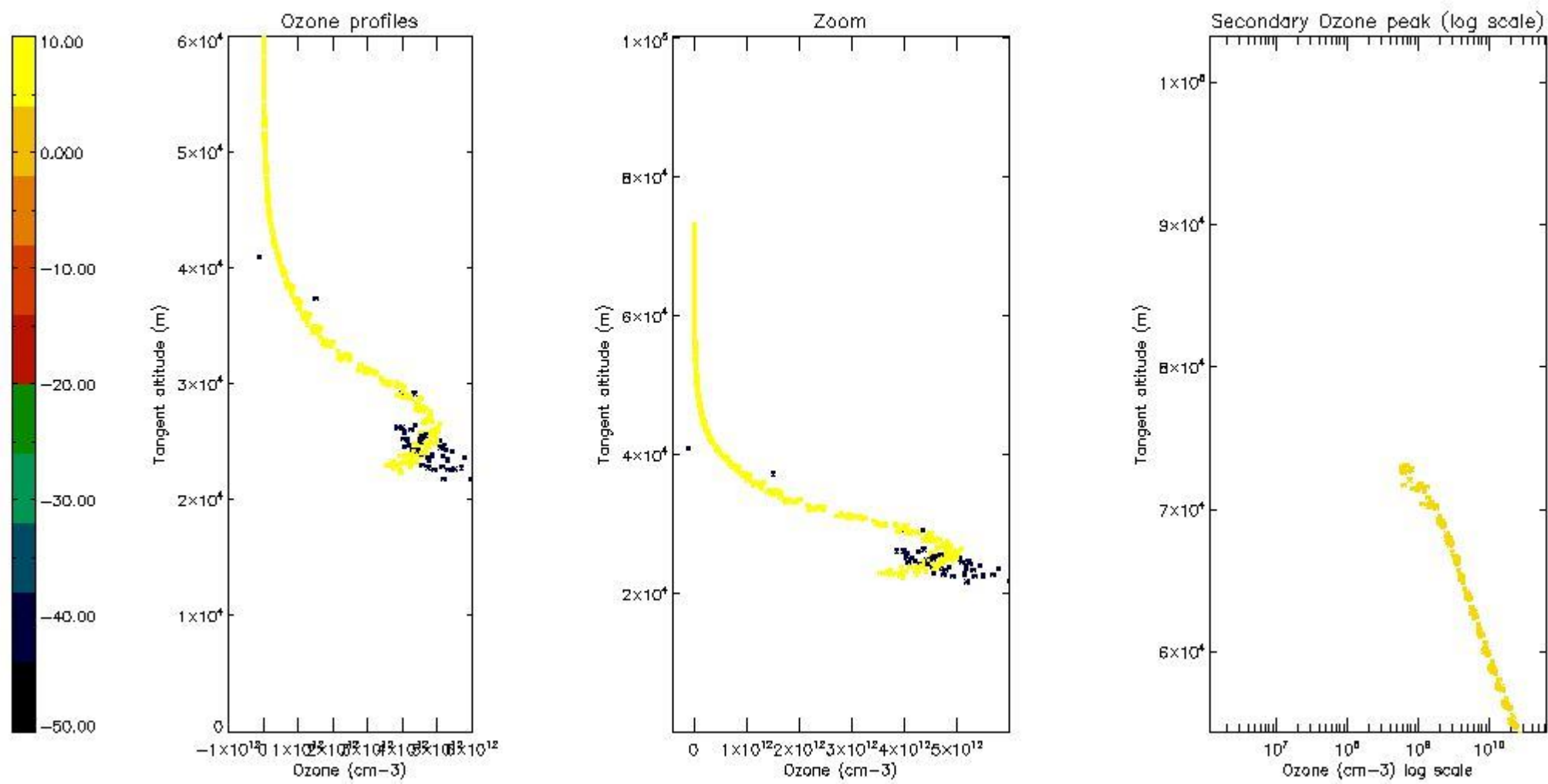
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



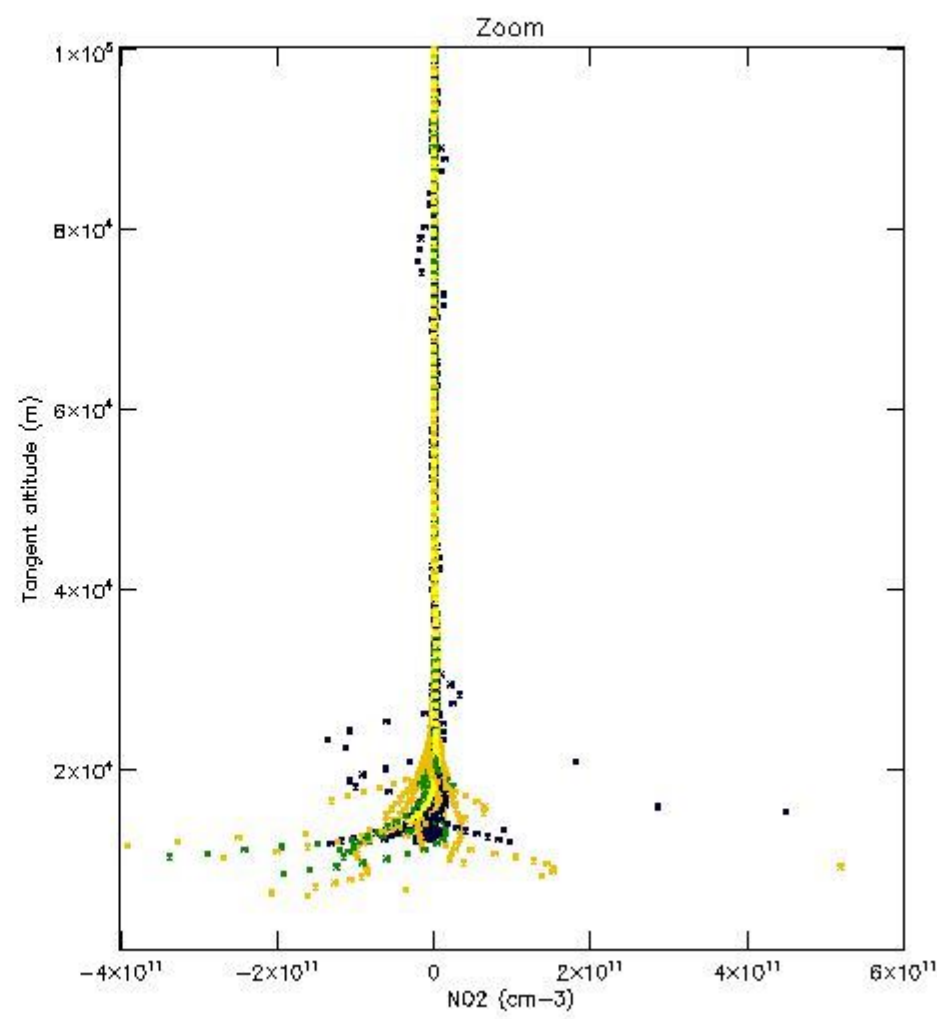
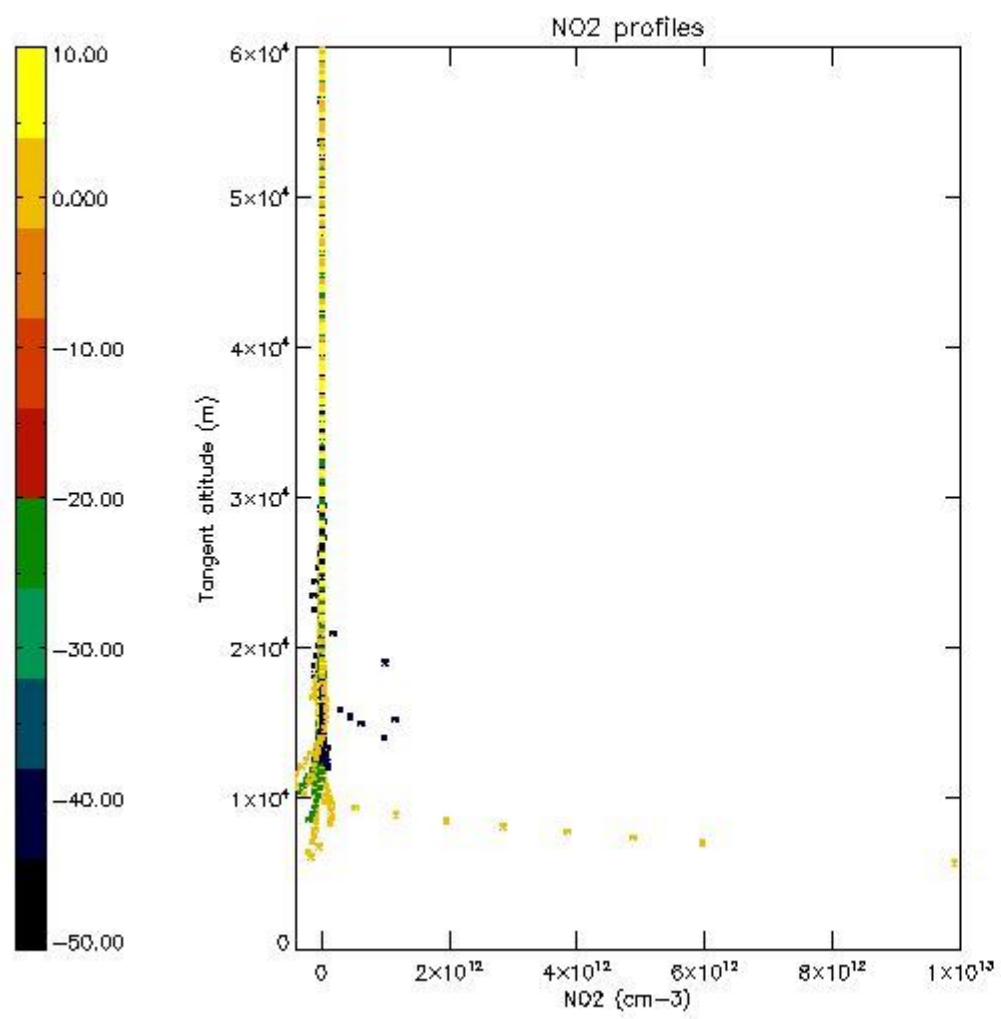
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



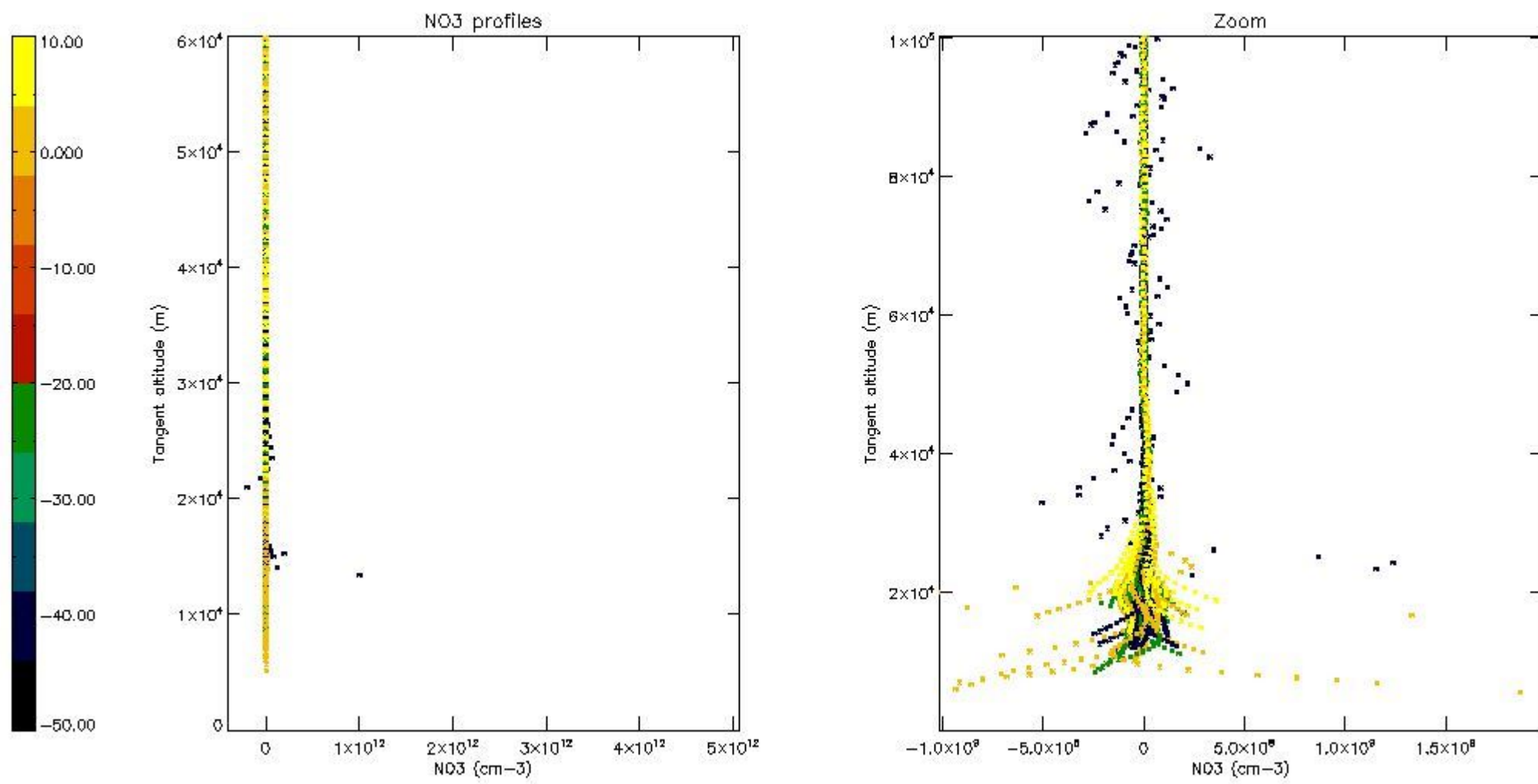
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



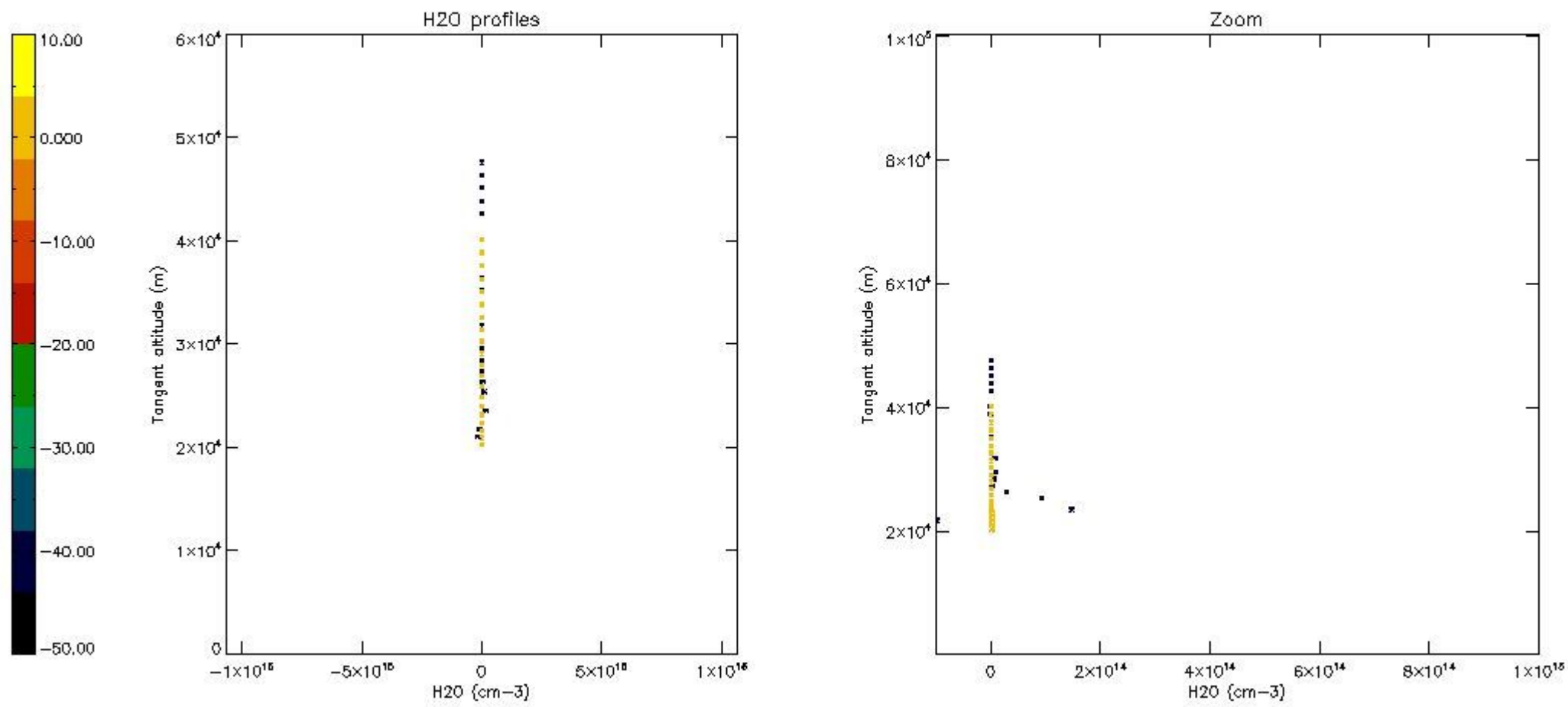
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

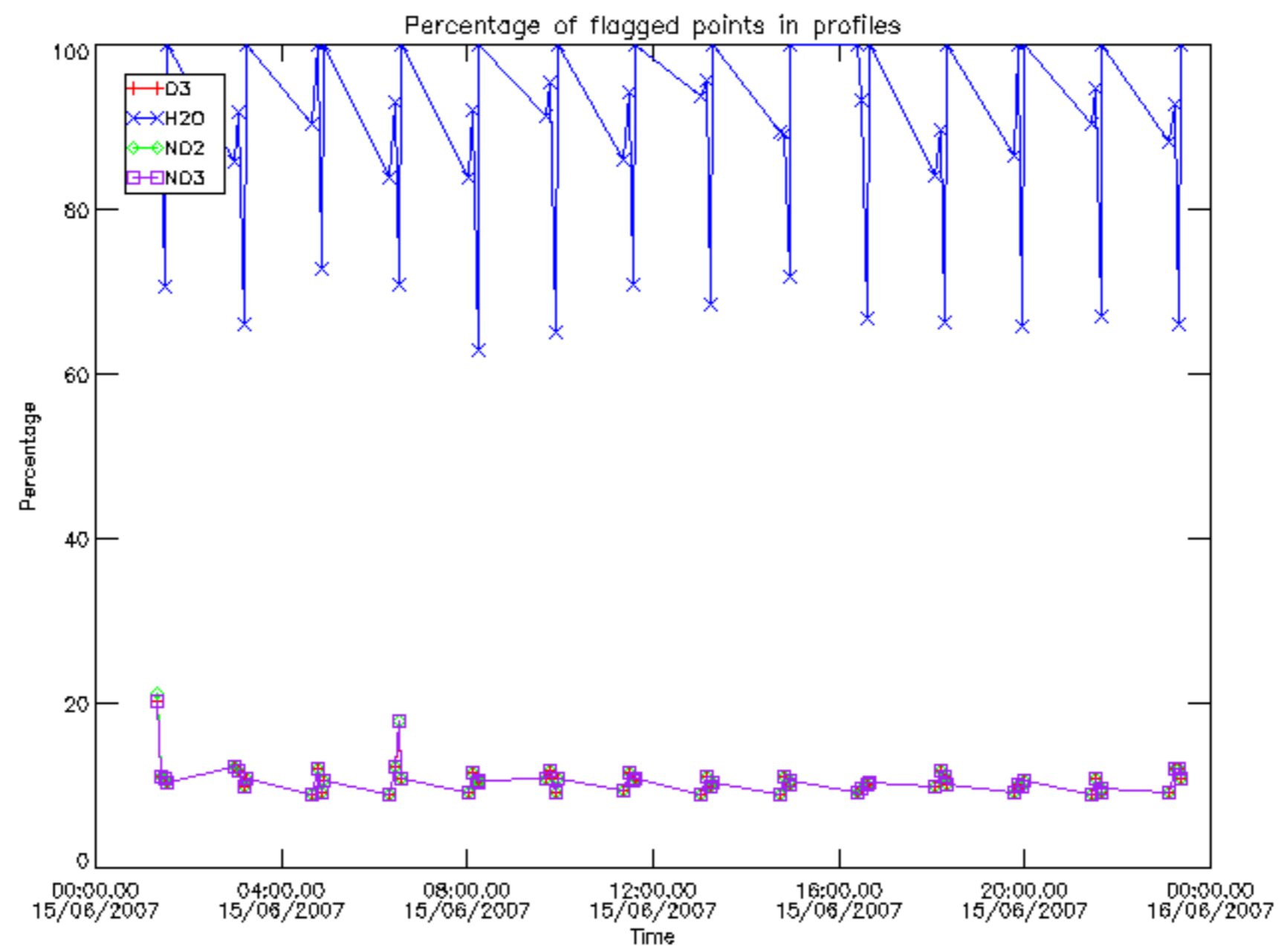
The colorbar represents the latitude.



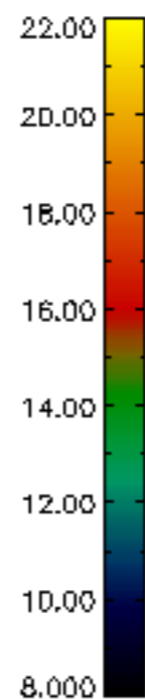
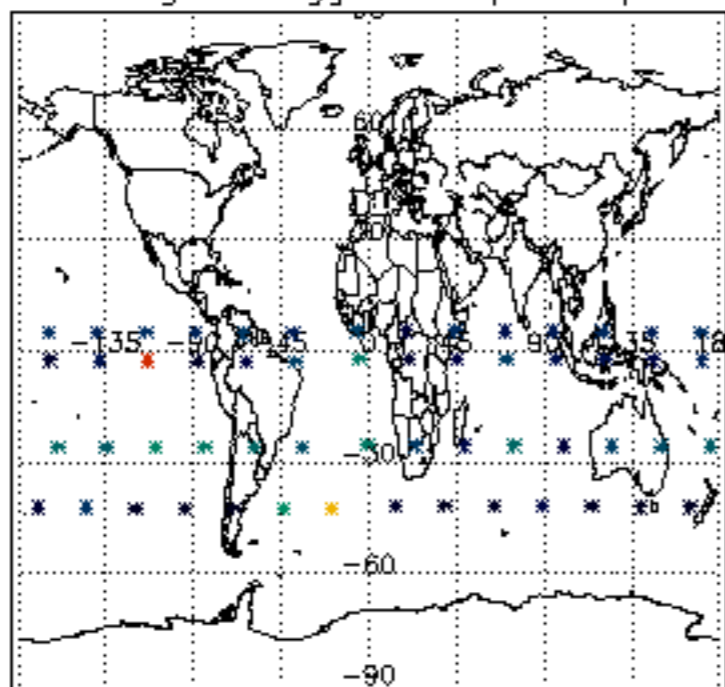
6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

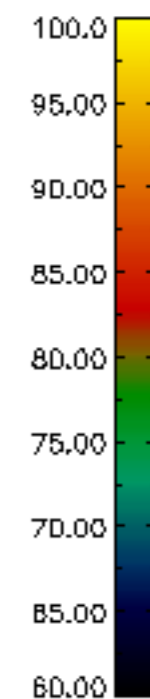
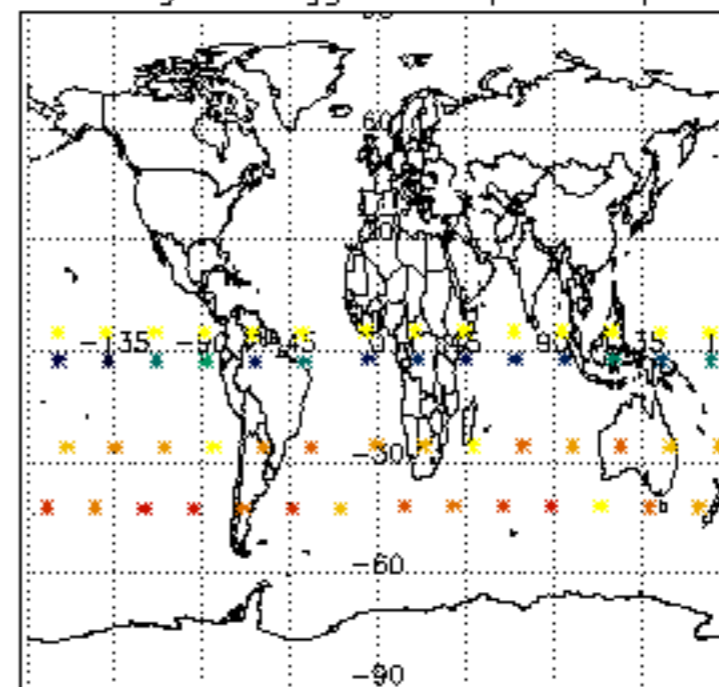
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	15-JUN-2007 00:04:27
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	15-JUN-2007 00:04:27
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	15-JUN-2007 00:04:27



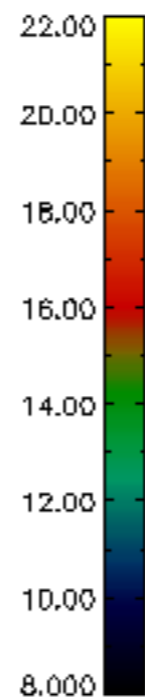
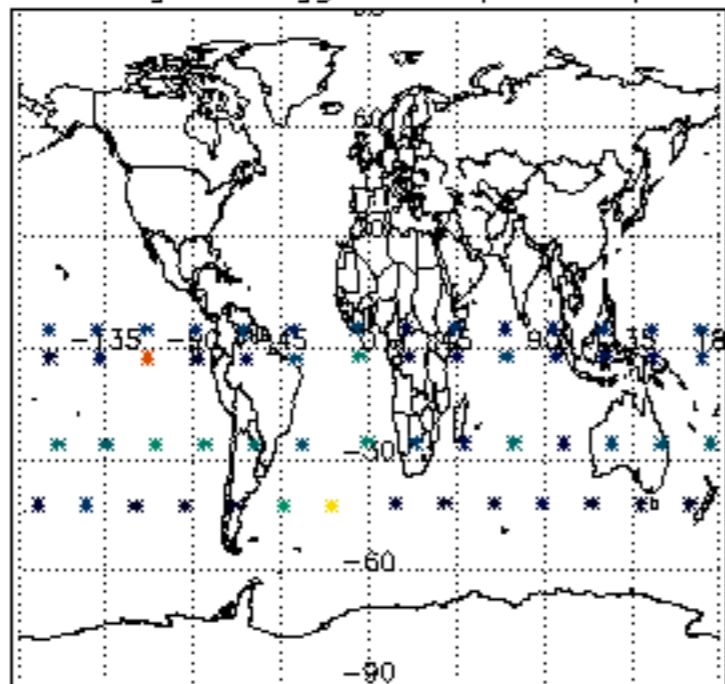
Percentage of flagged data per D3 profile



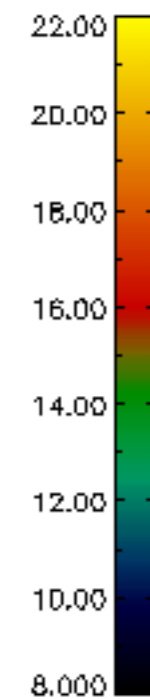
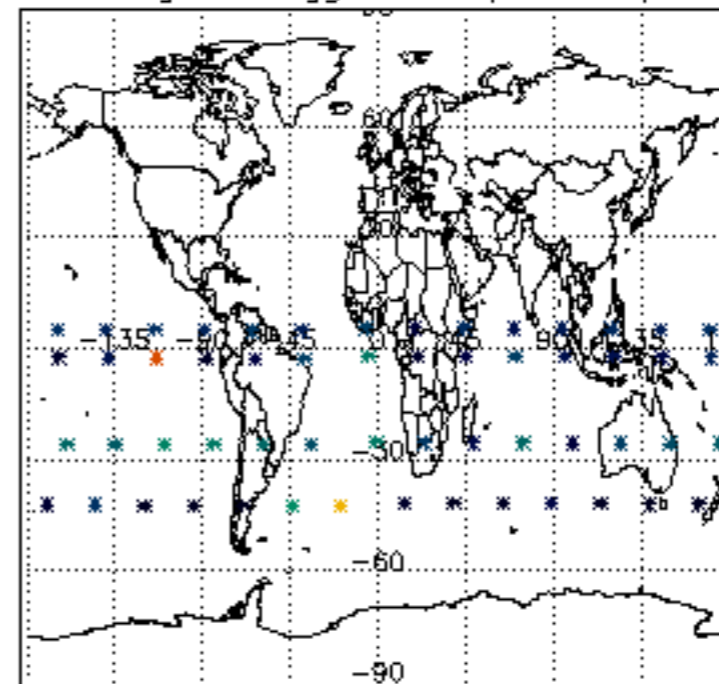
Percentage of flagged data per H2O profile

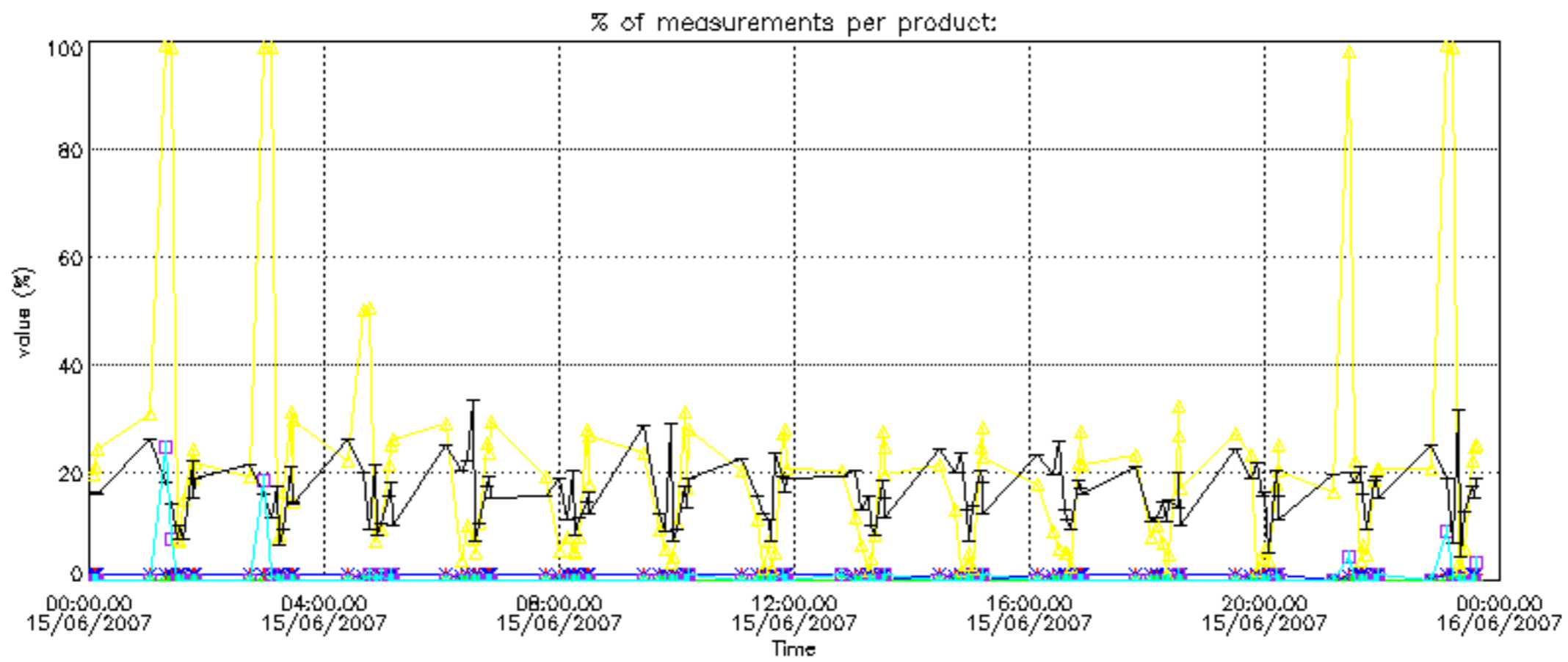


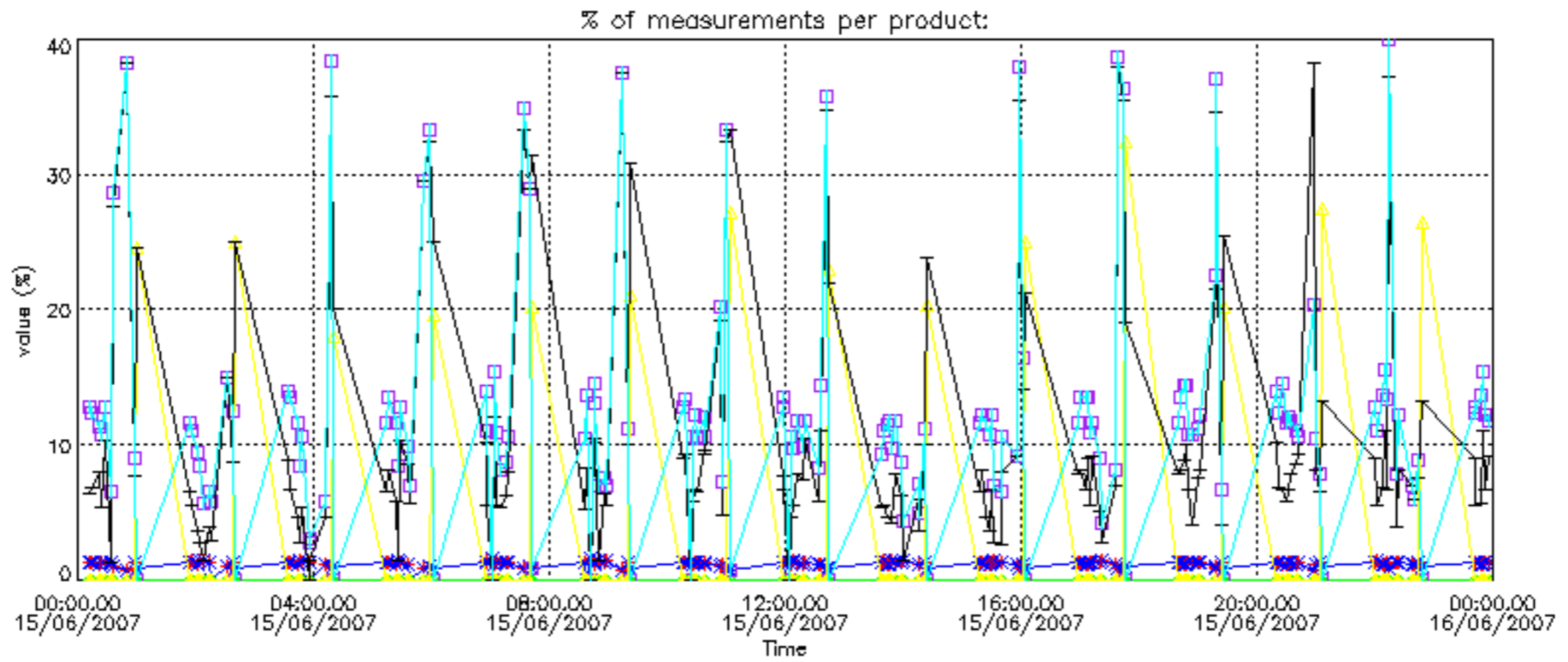
Percentage of flagged data per NO2 profile



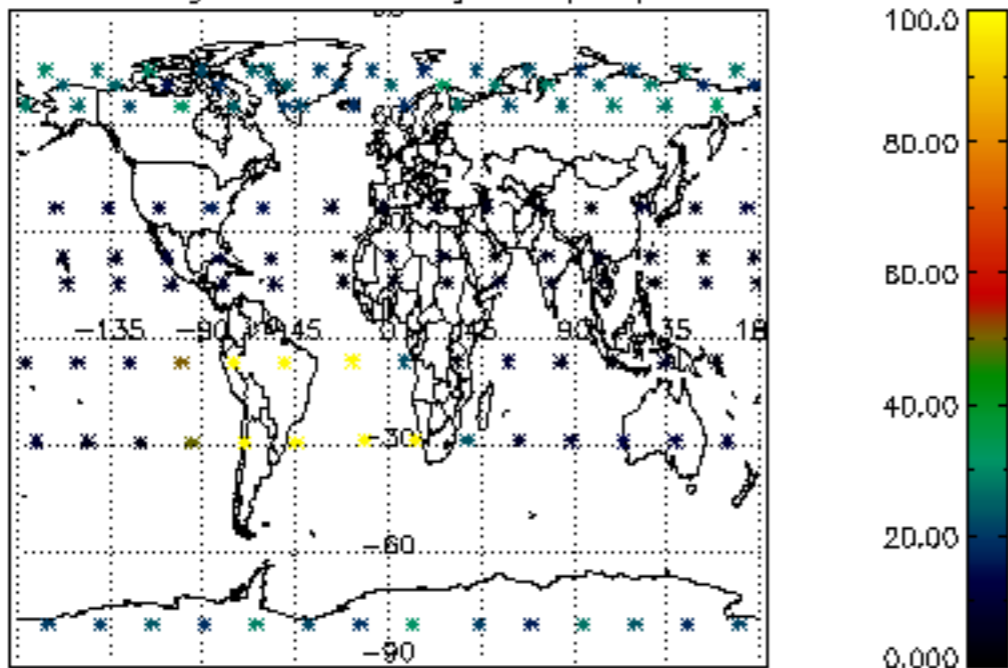
Percentage of flagged data per NO3 profile



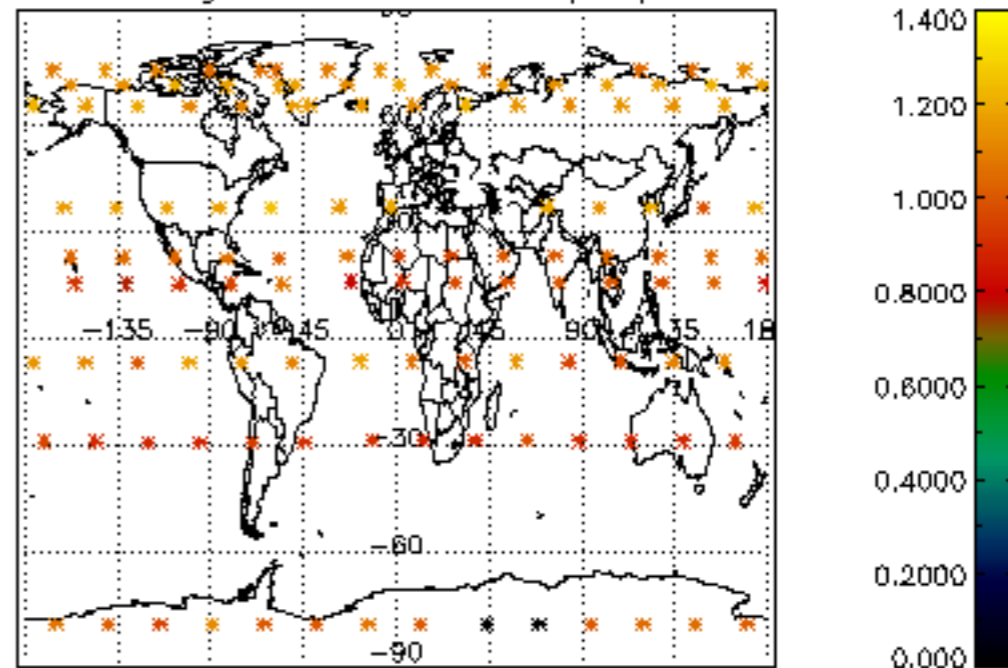




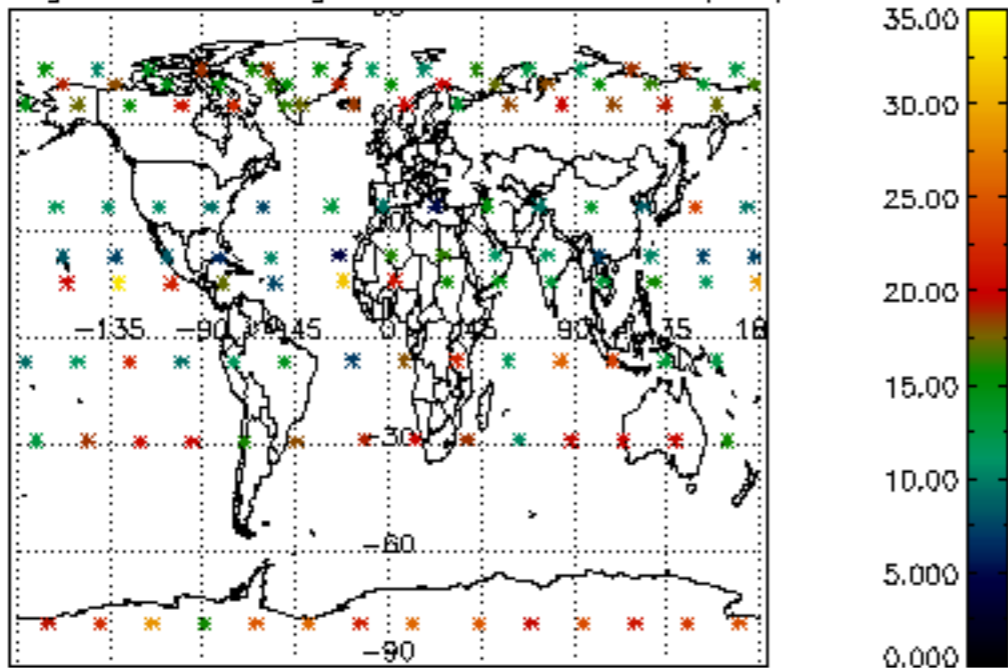
Percentage of cosmic ray hits per profile



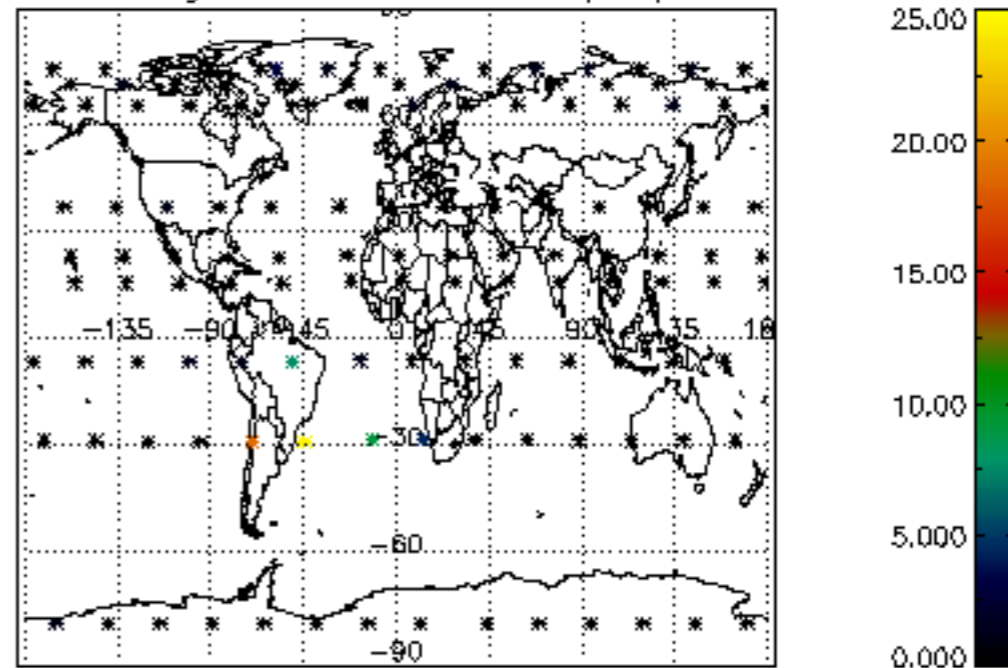
Percentage of datation errors per profile



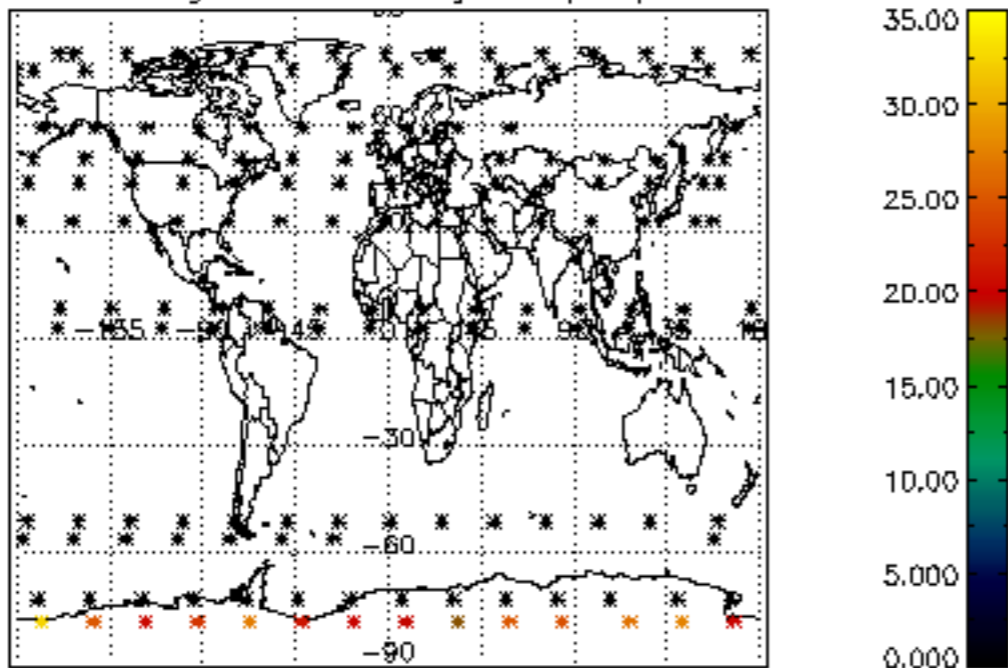
Percentage of star falling outside central band per profile



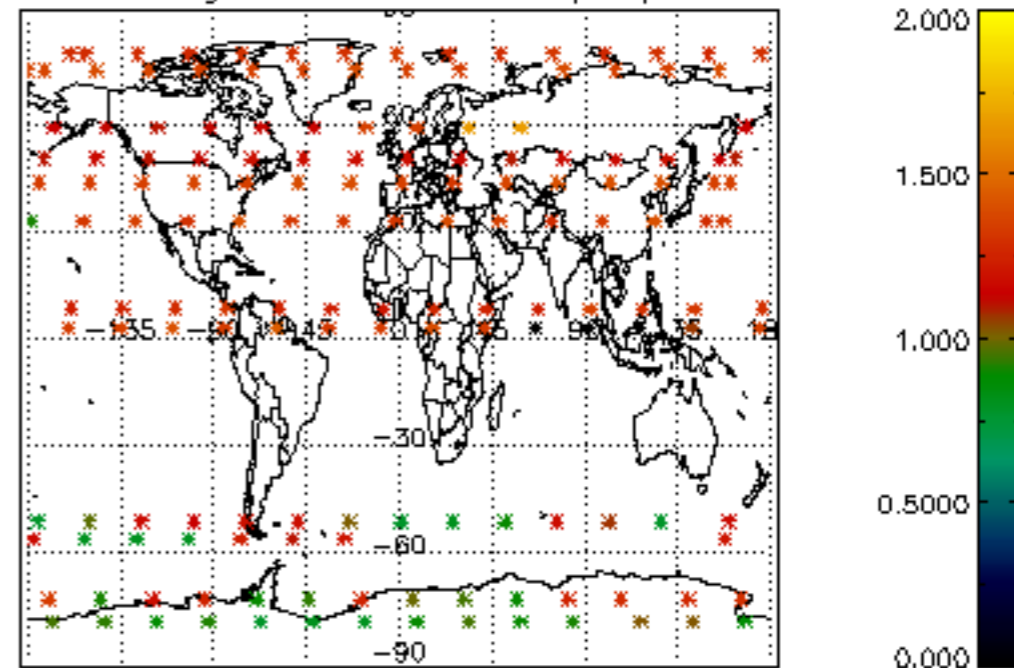
Percentage of saturation errors per profile



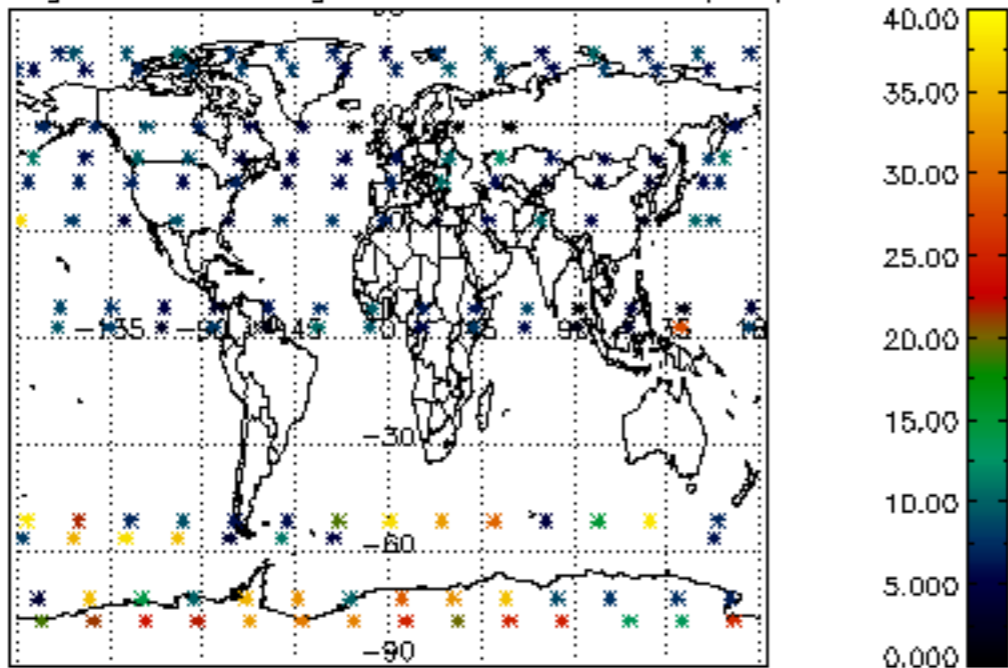
Percentage of cosmic ray hits per profile



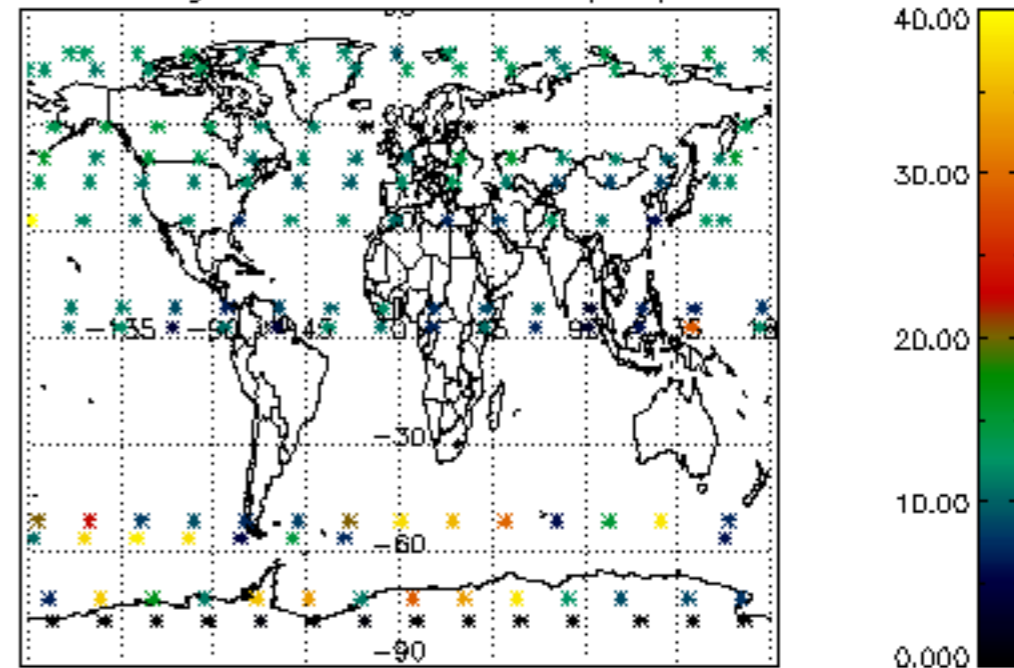
Percentage of datation errors per profile

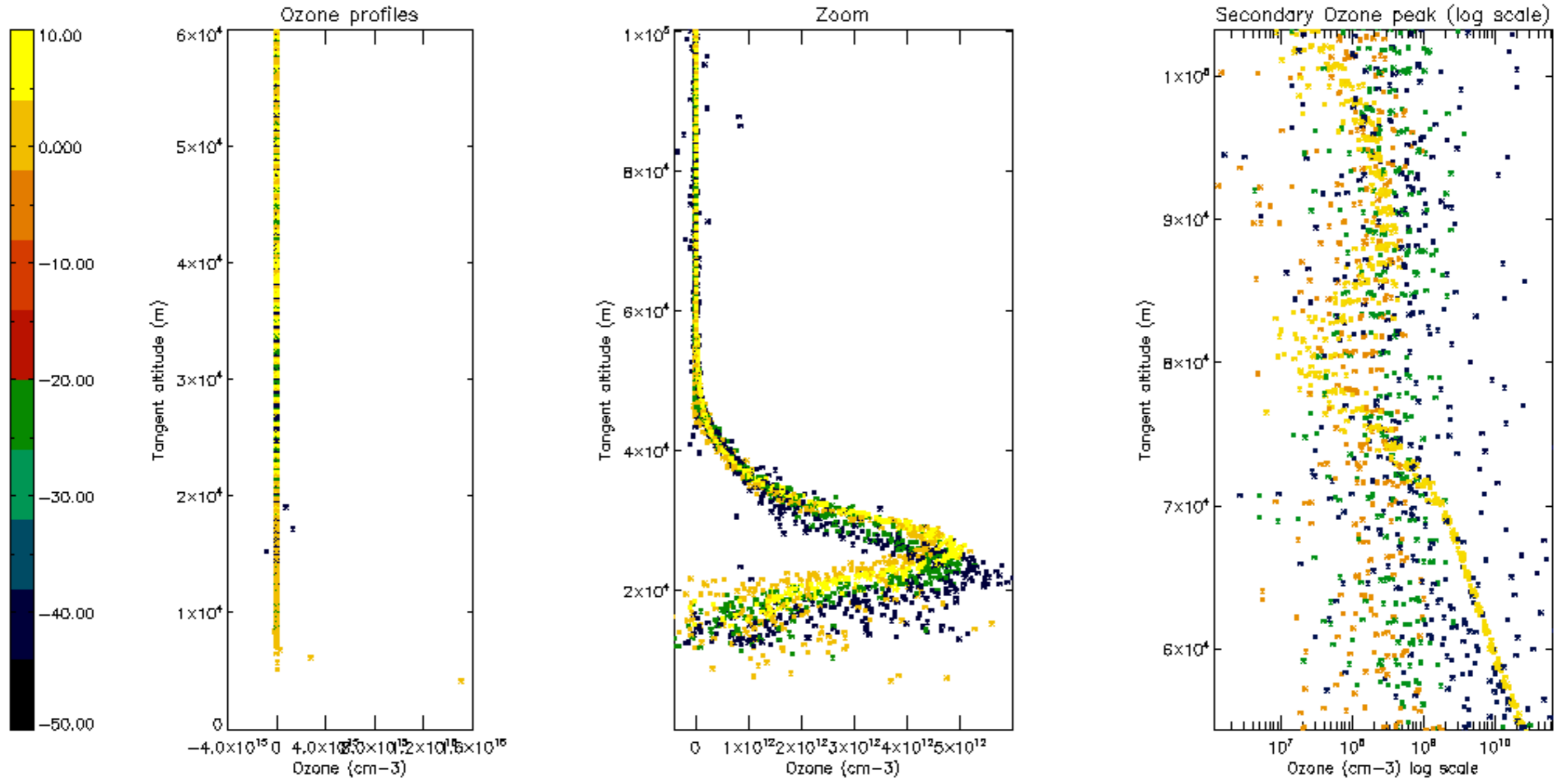


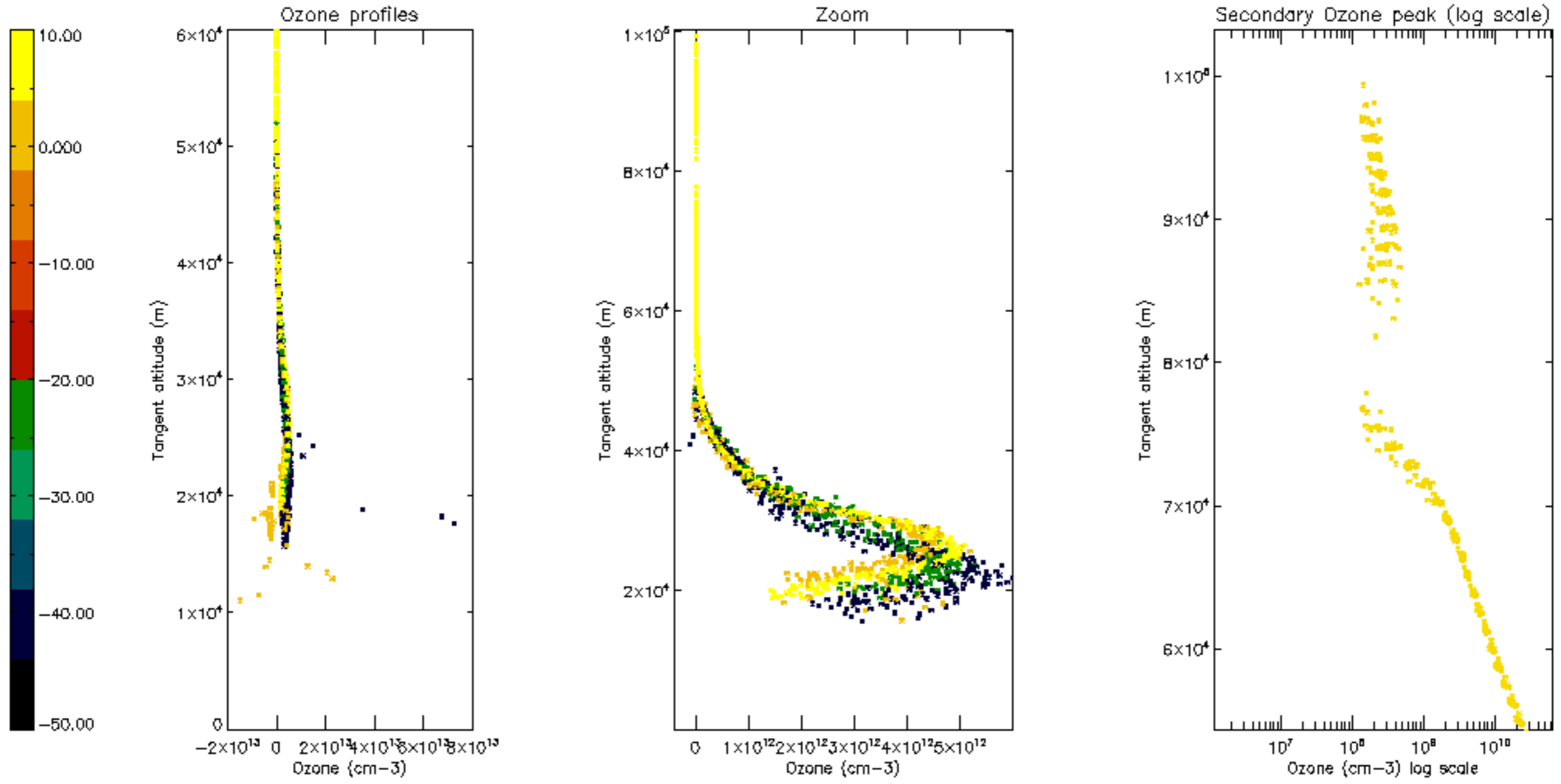
Percentage of star falling outside central band per profile

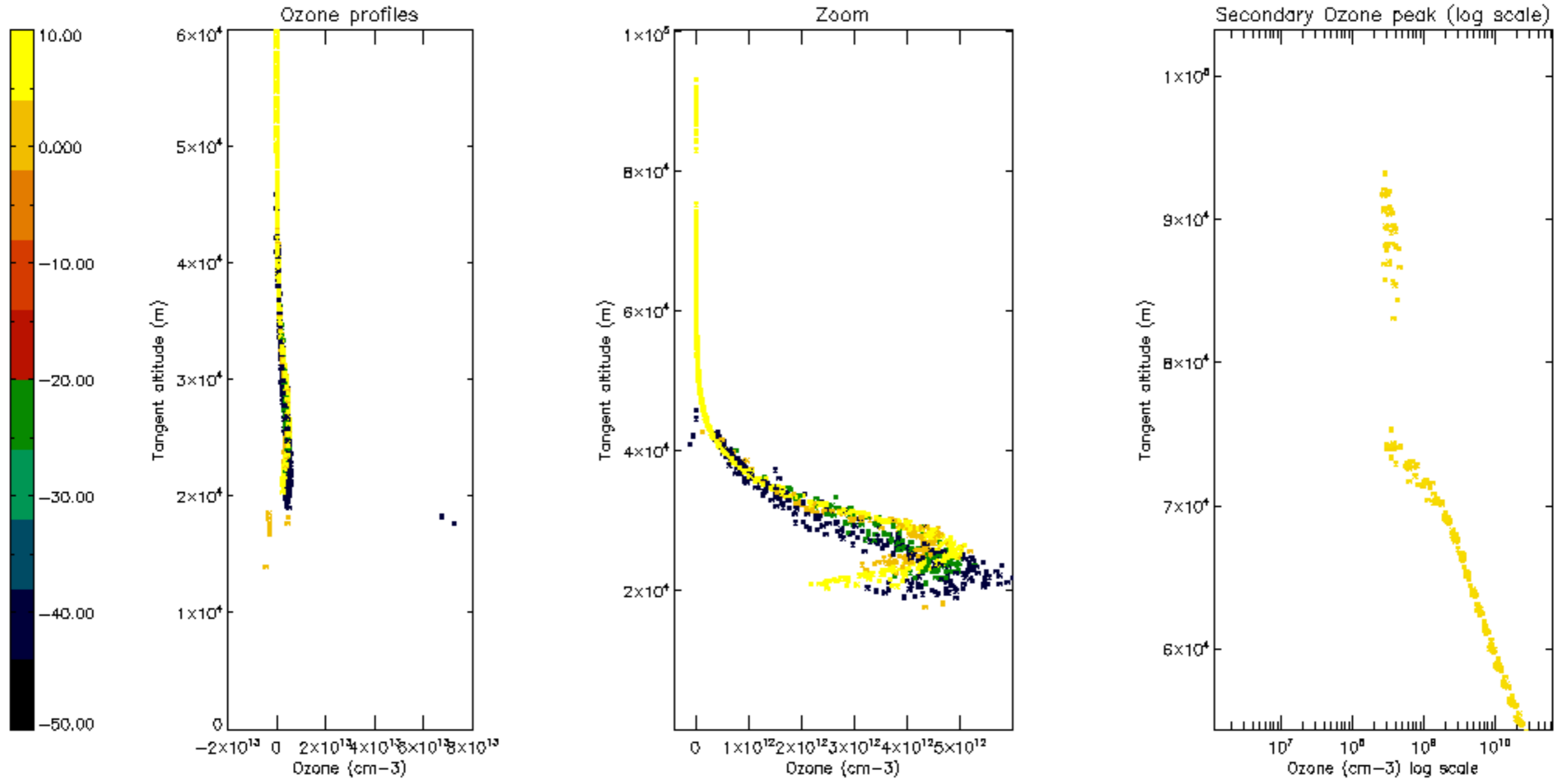


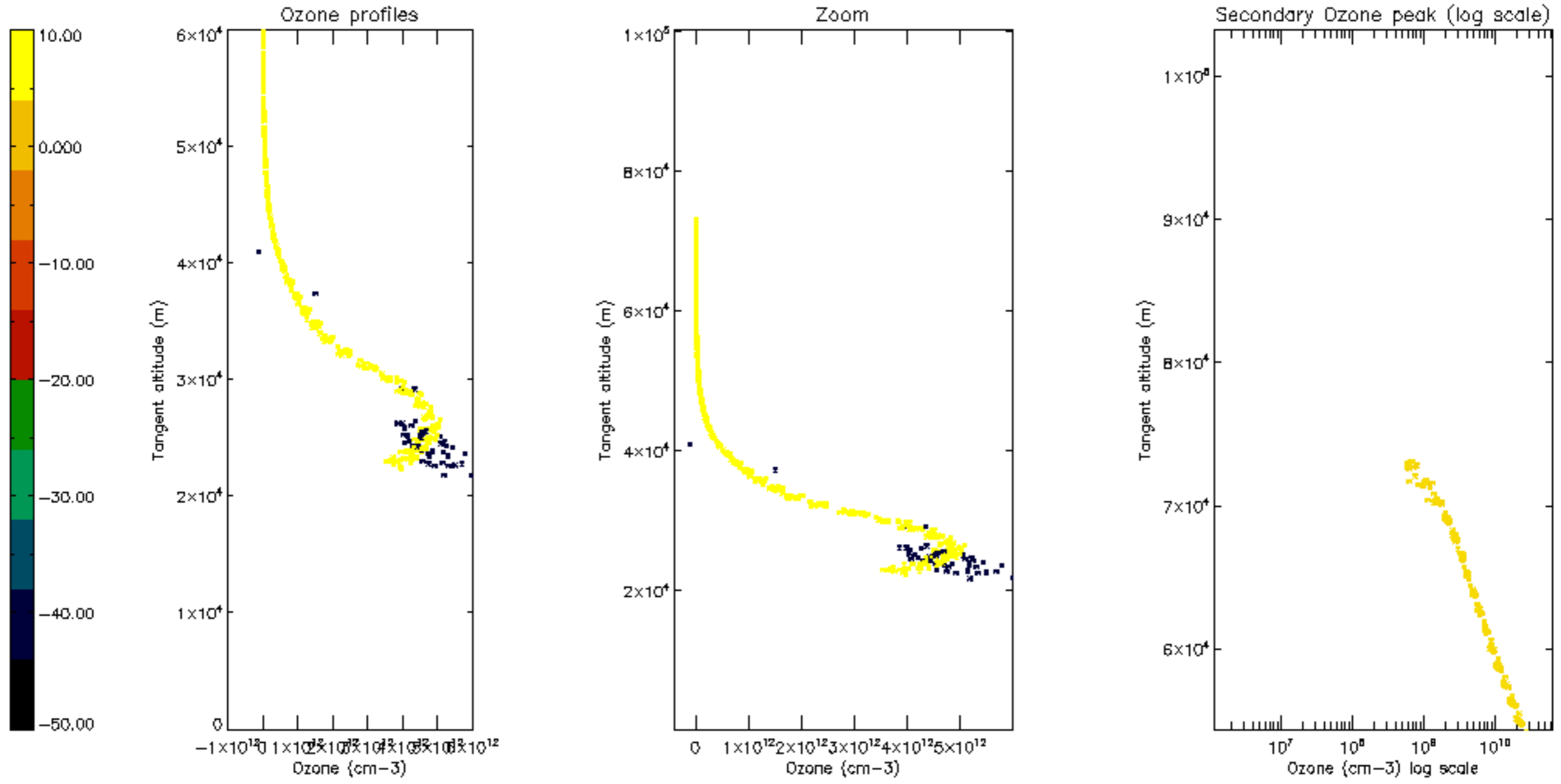
Percentage of saturation errors per profile

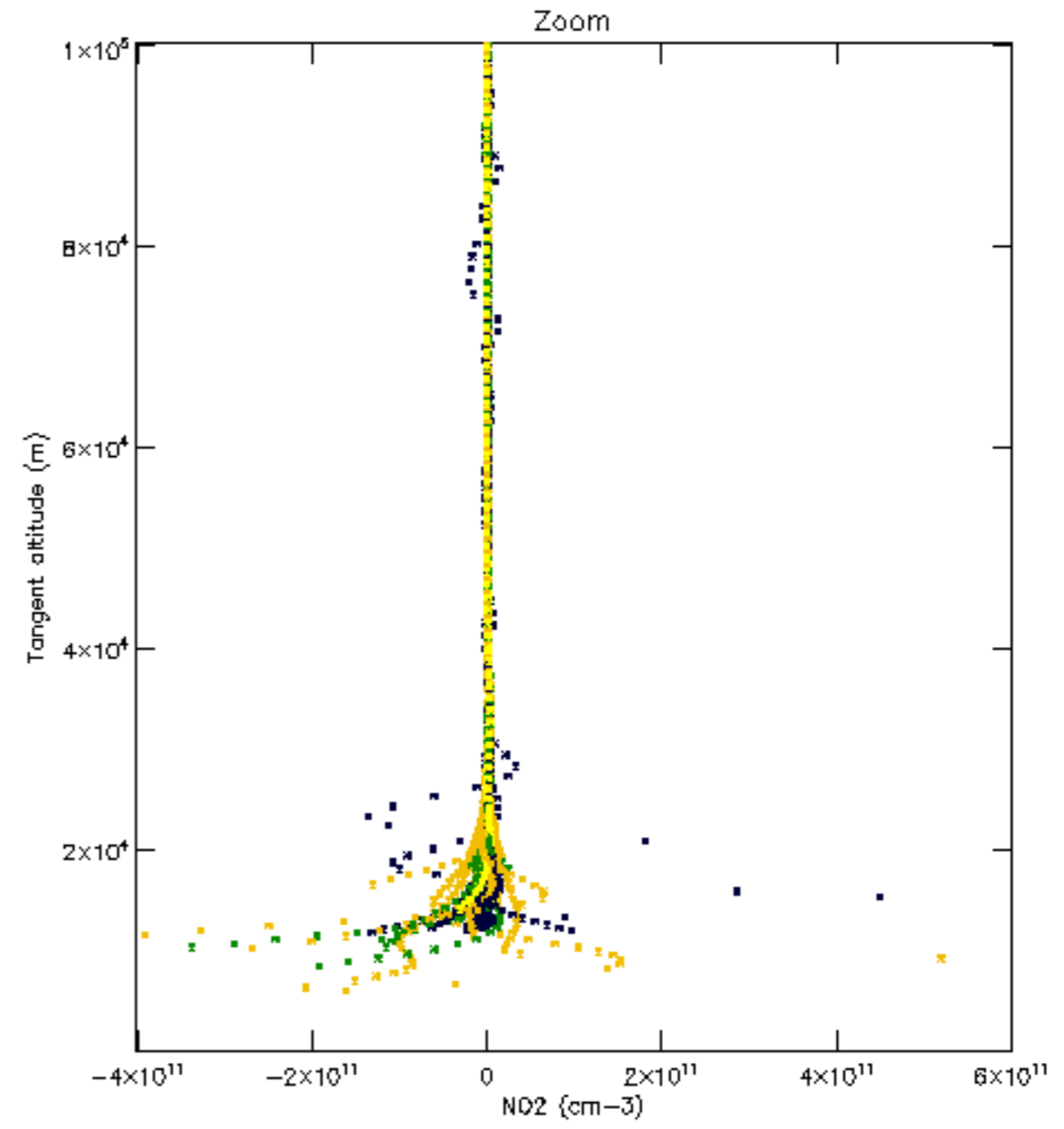
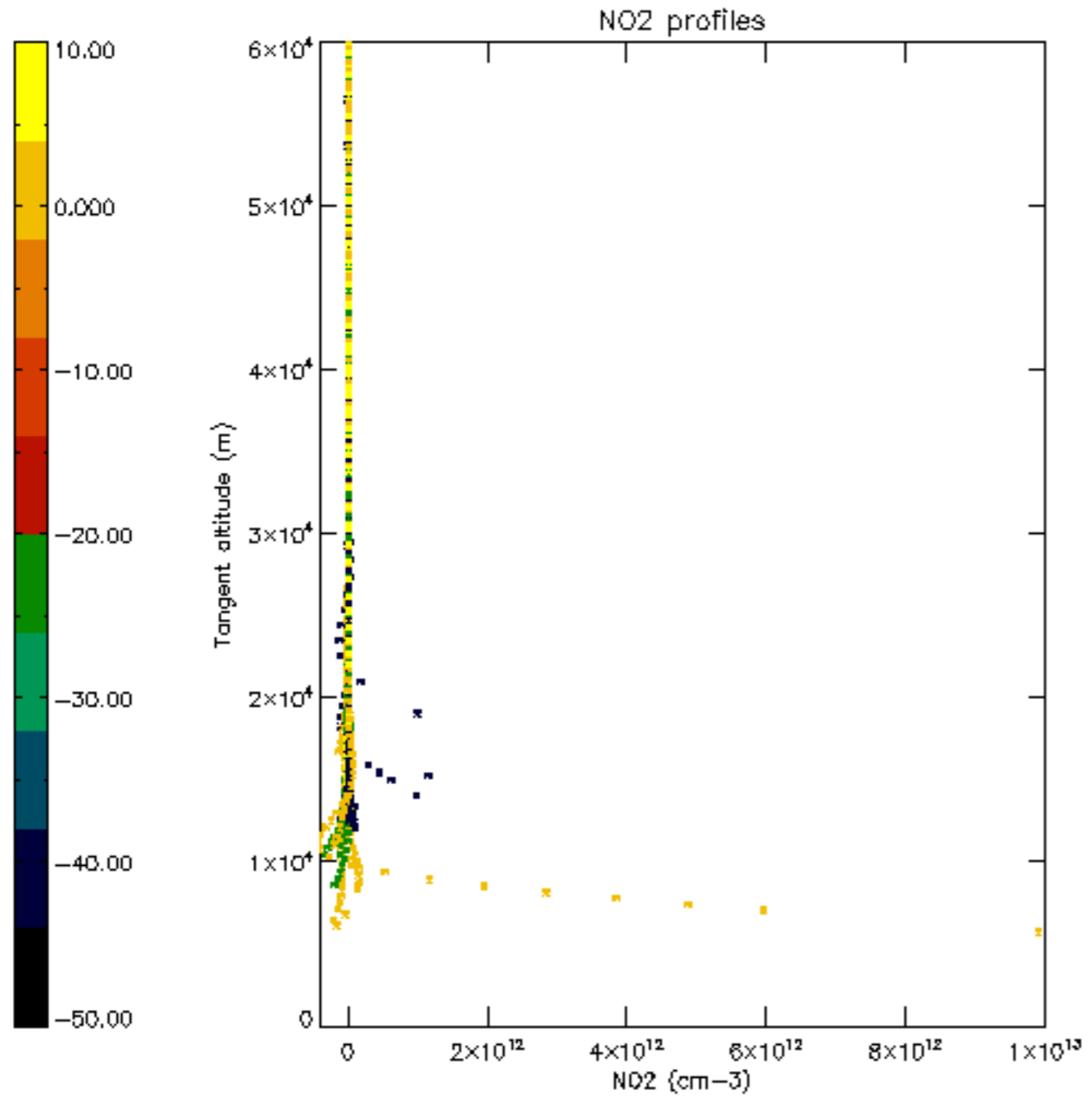


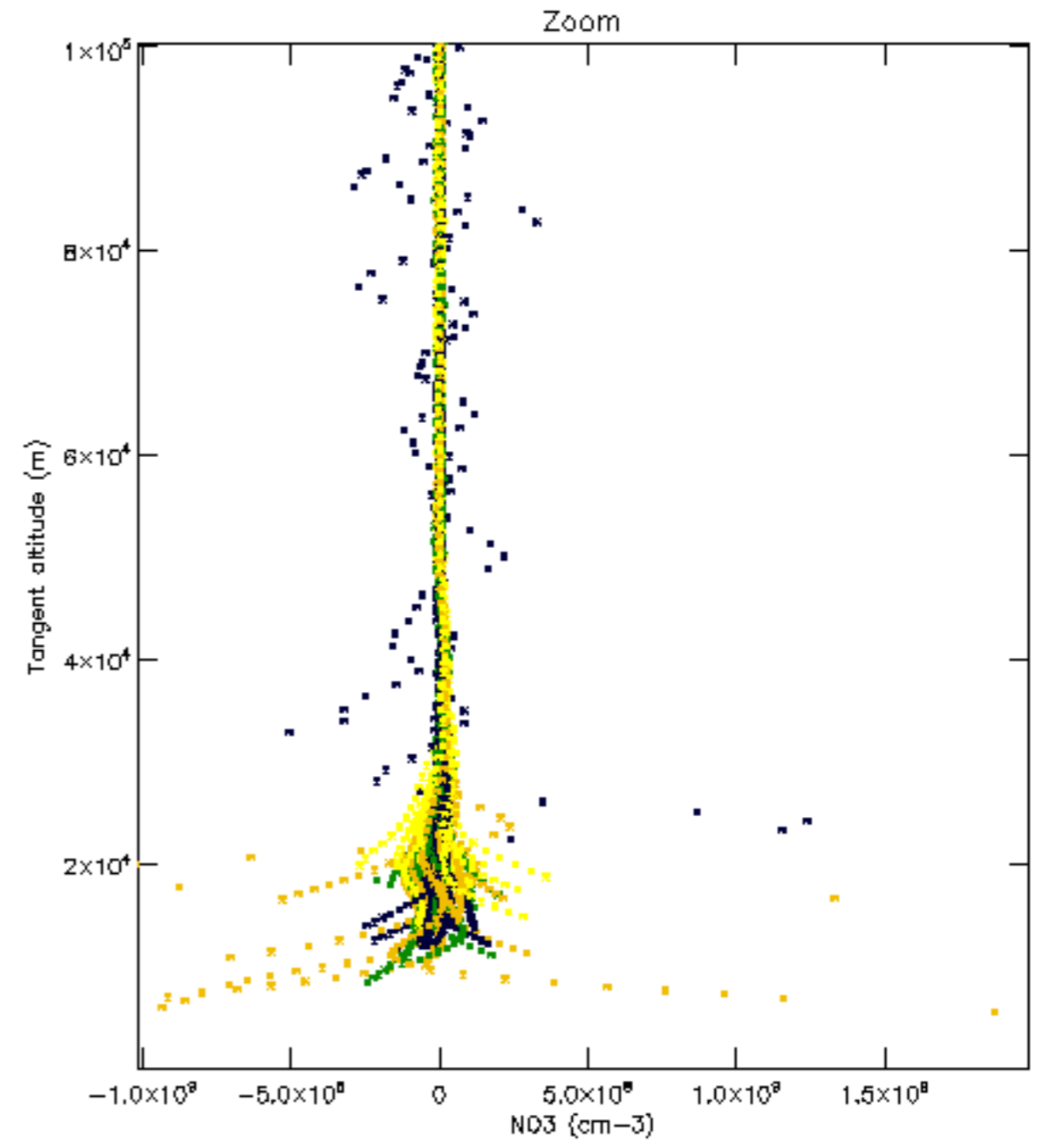
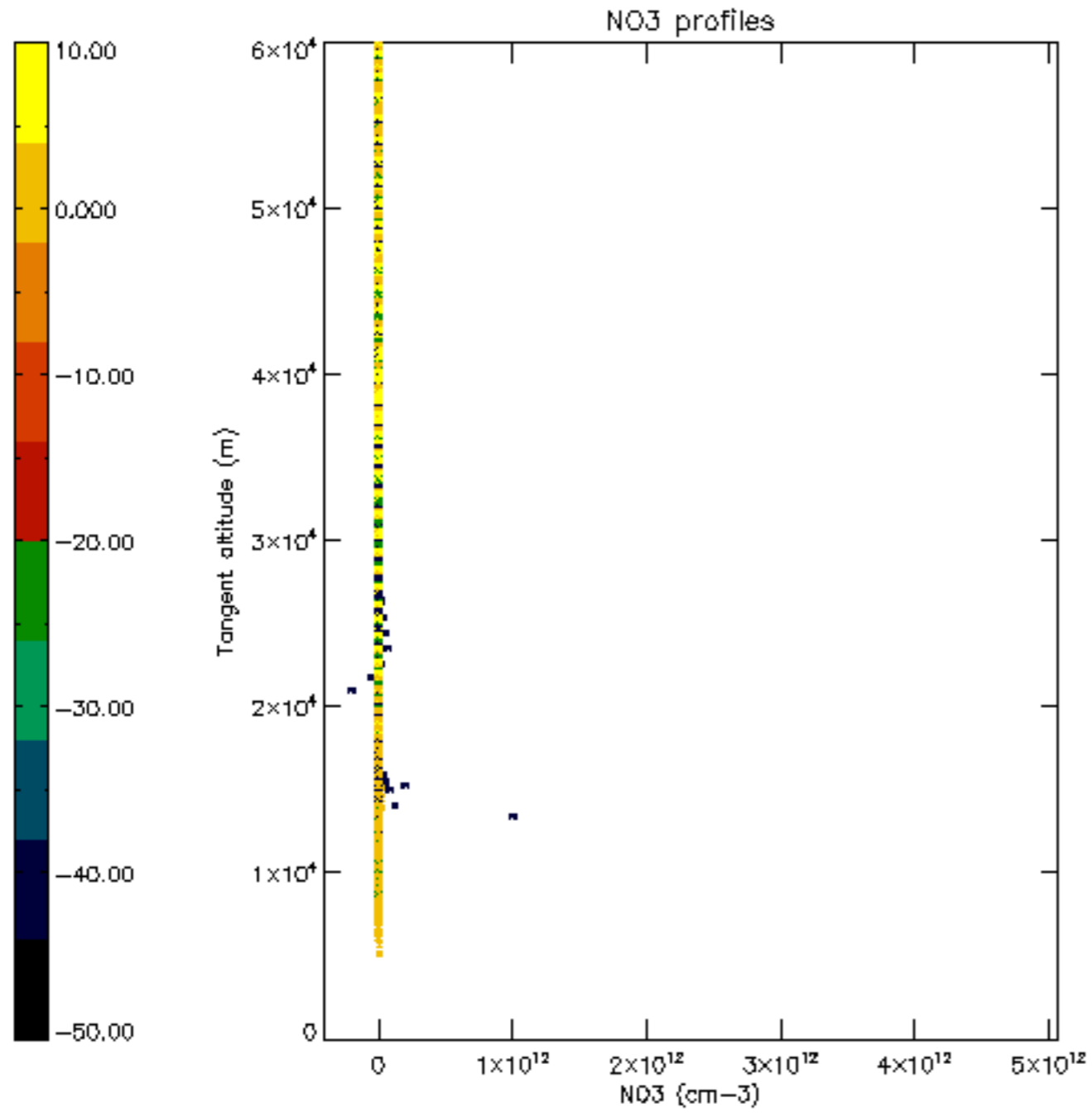


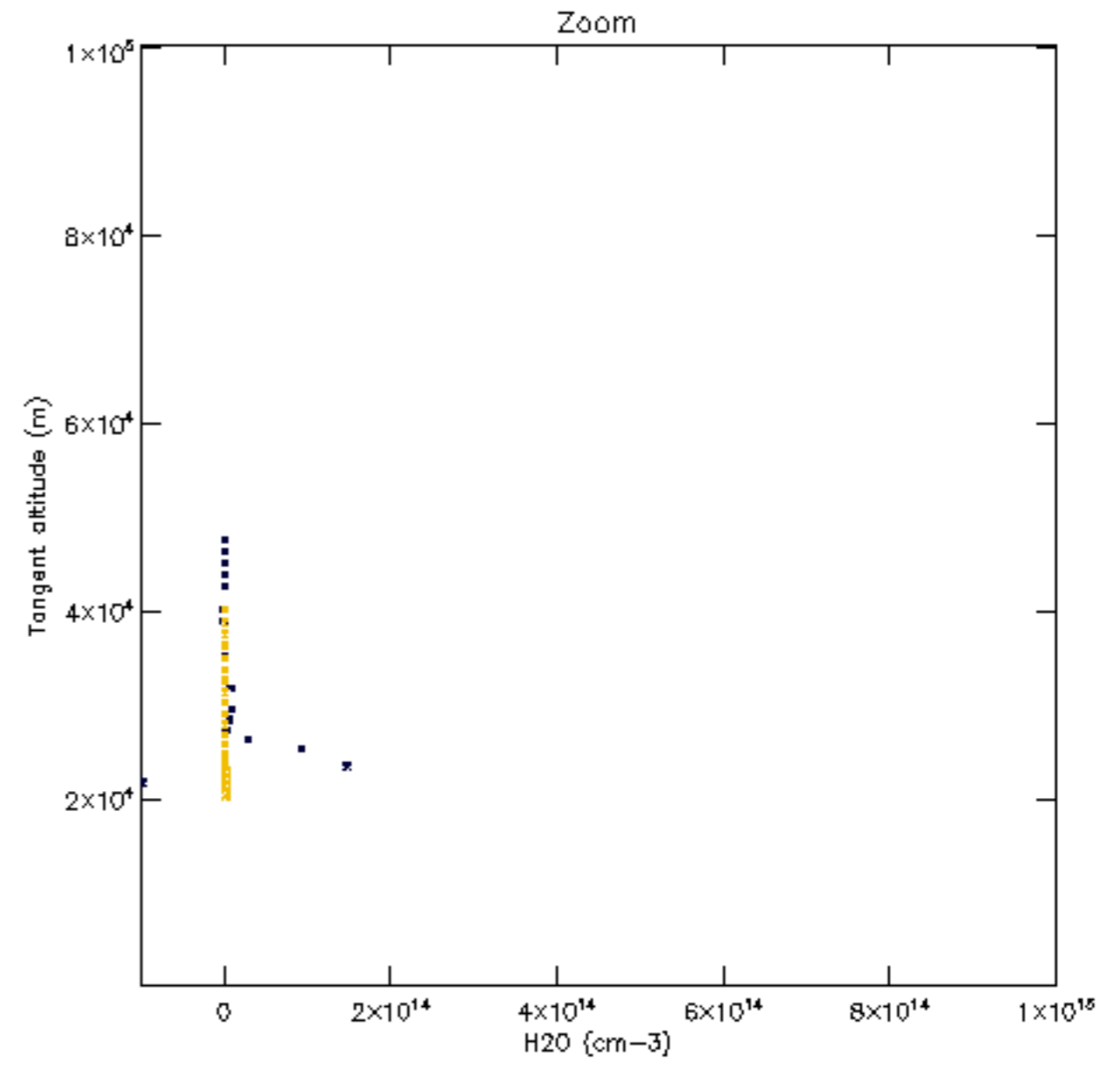
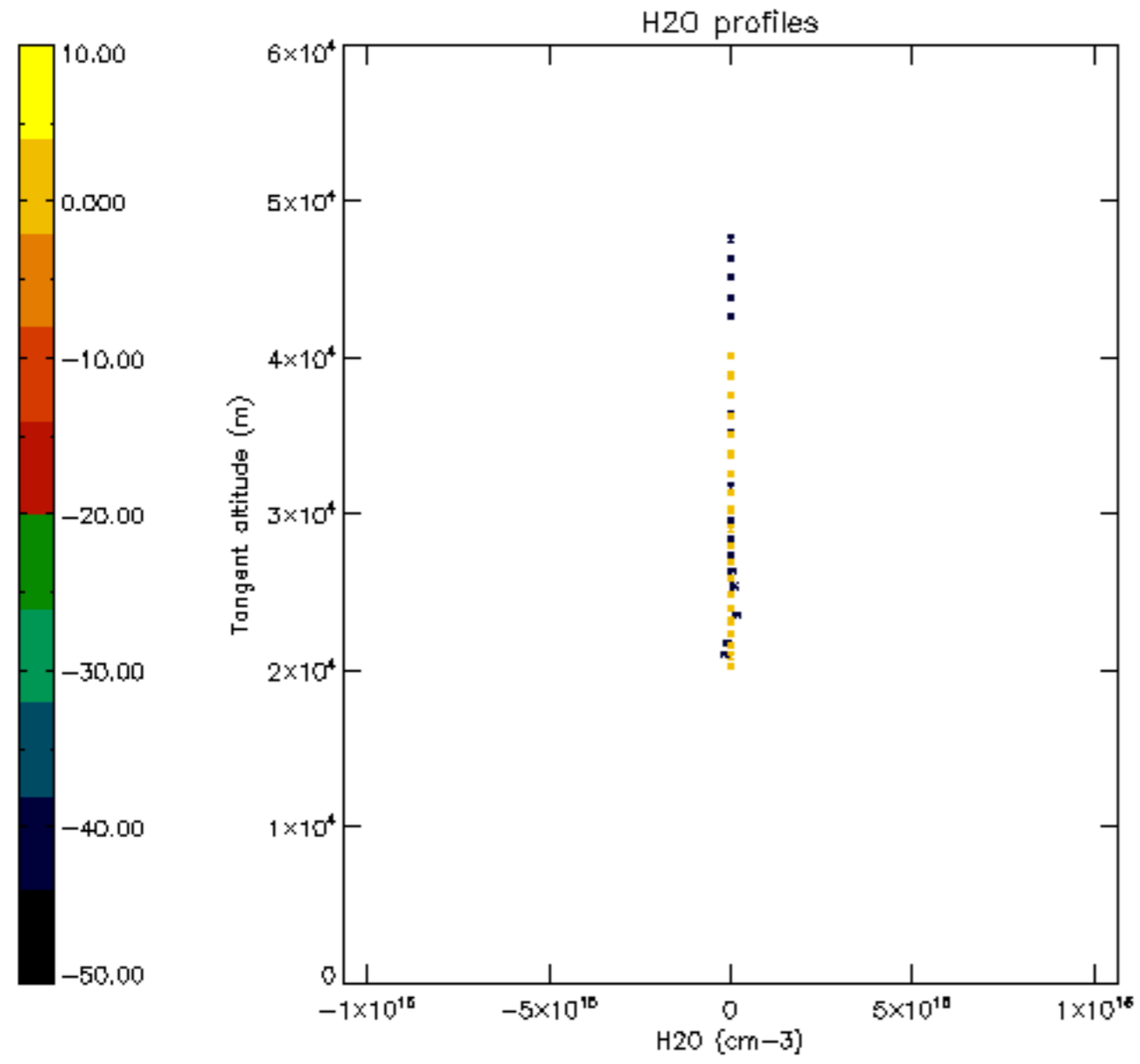


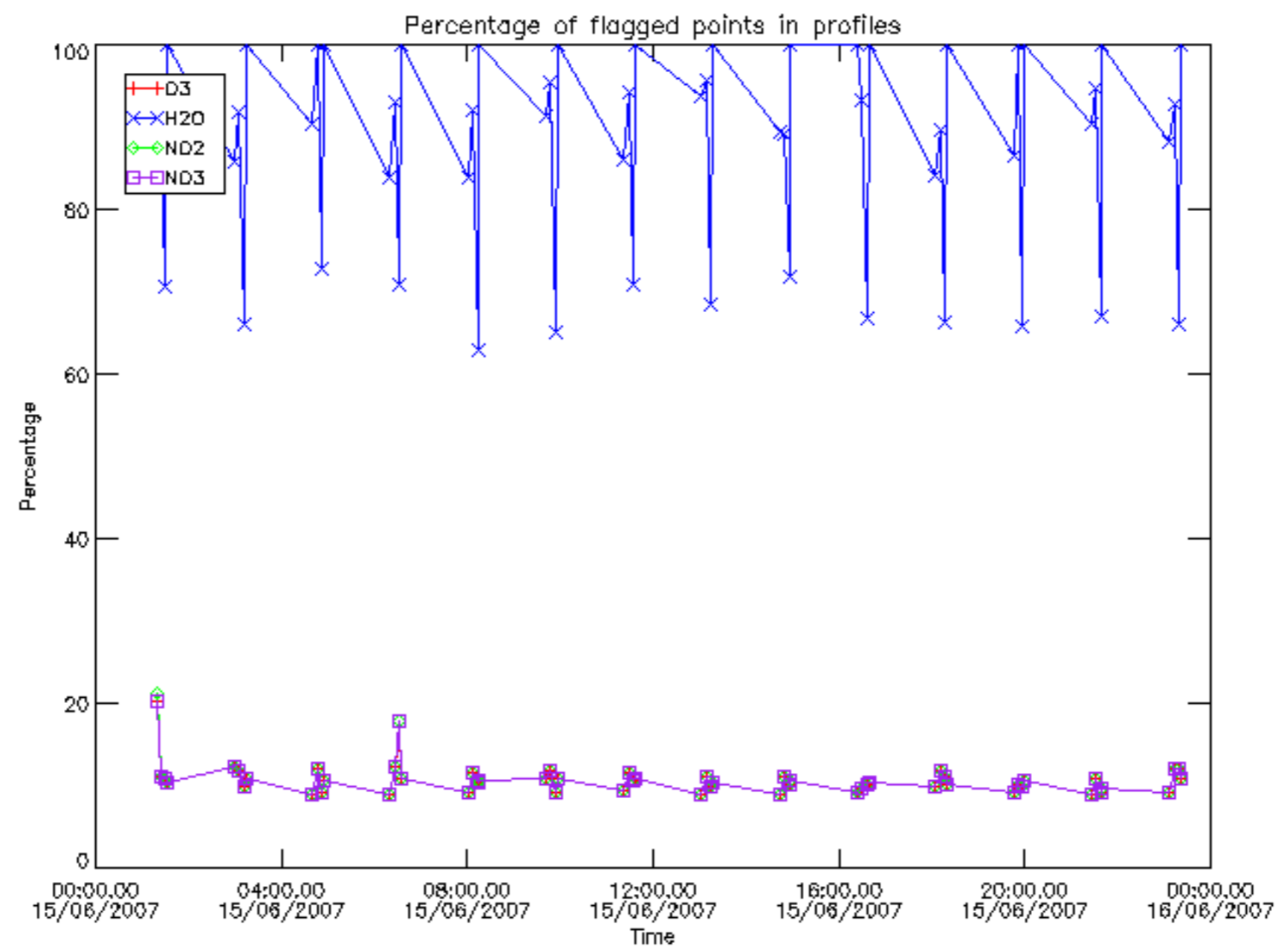




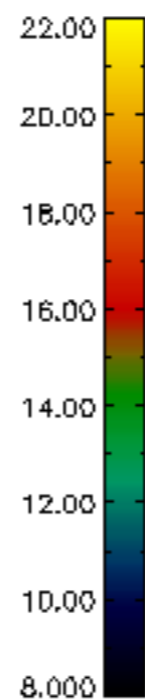
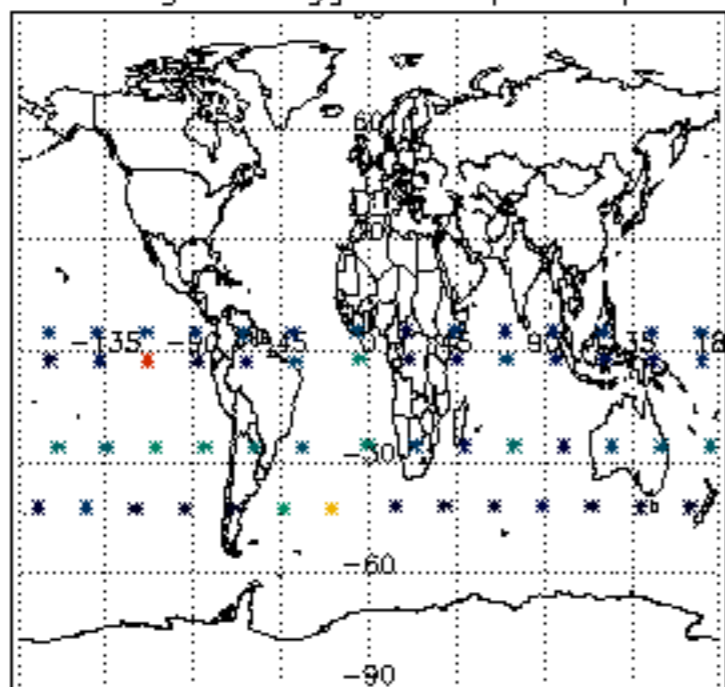




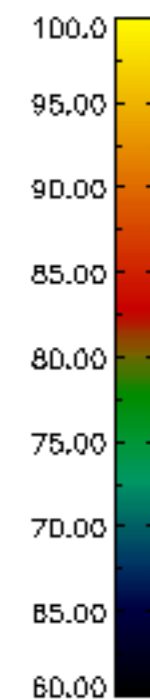
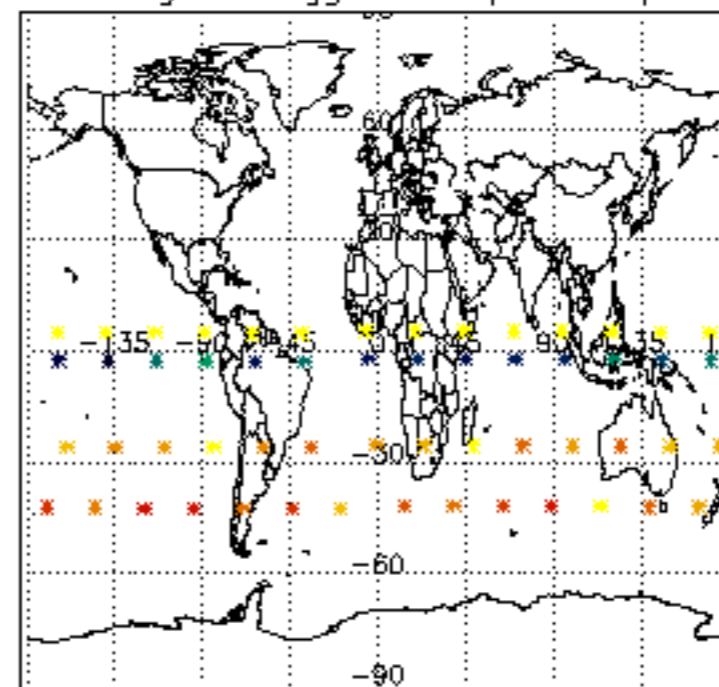




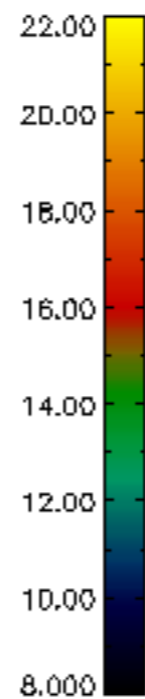
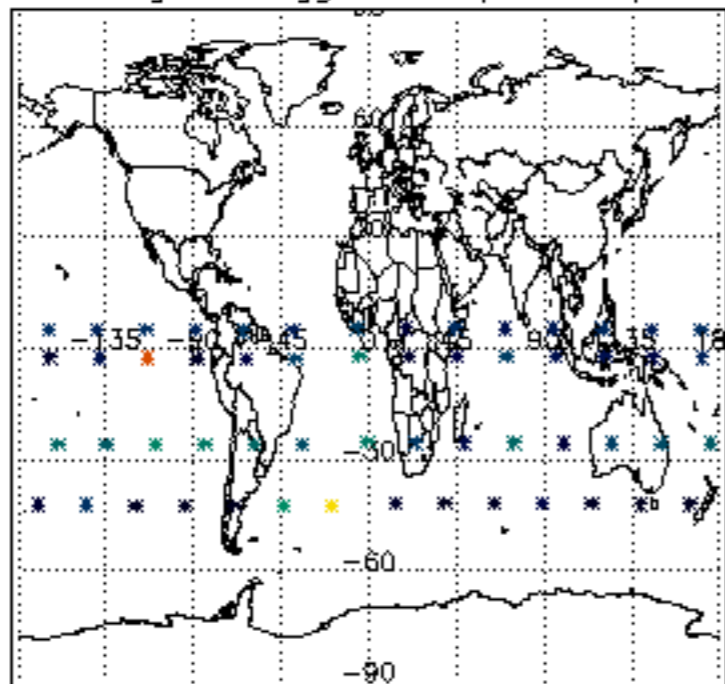
Percentage of flagged data per D3 profile



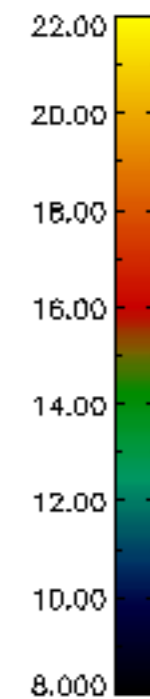
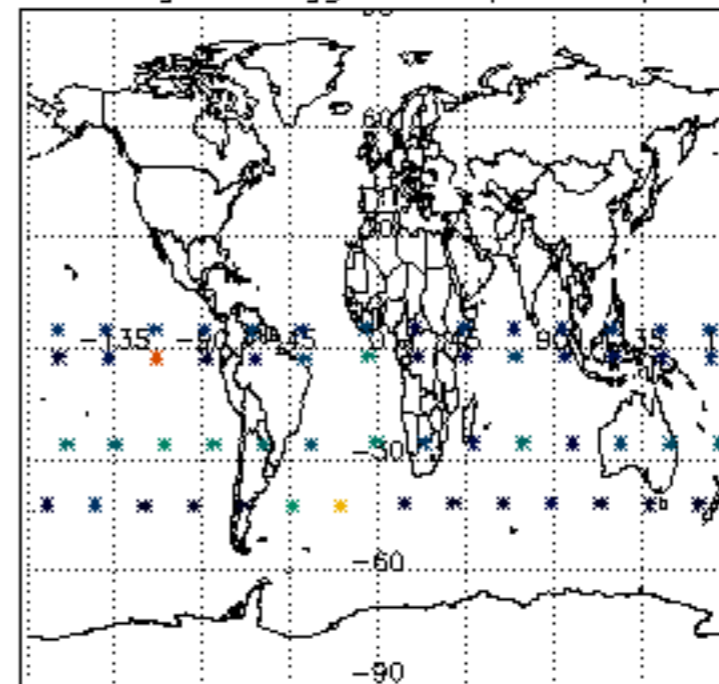
Percentage of flagged data per H2O profile

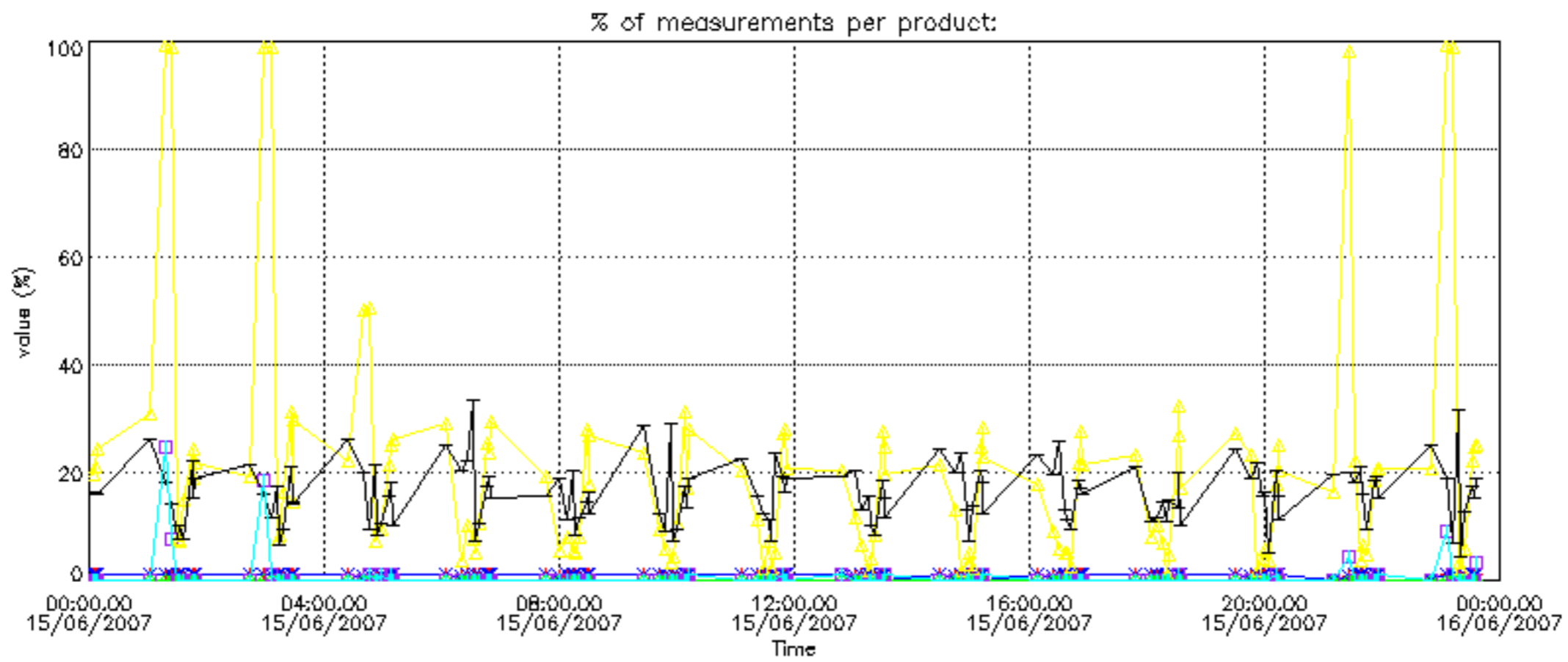


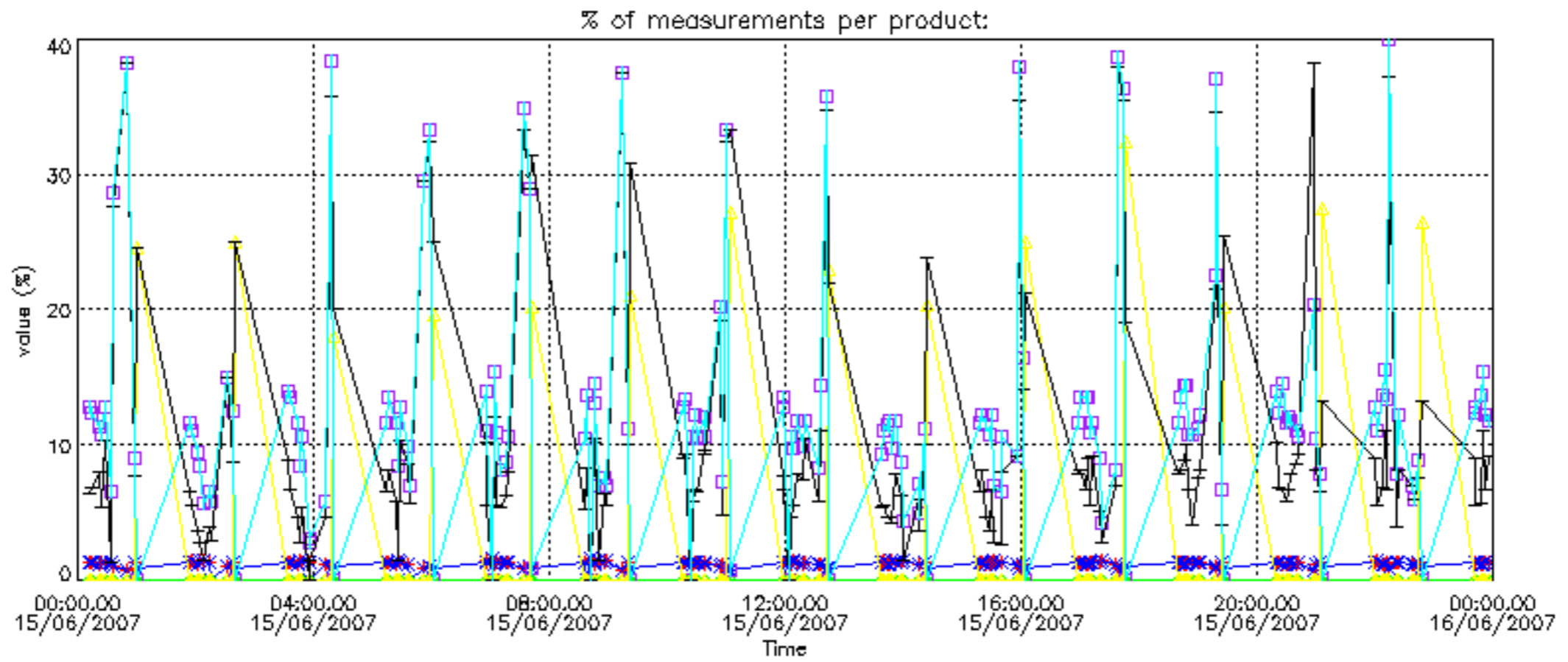
Percentage of flagged data per NO2 profile



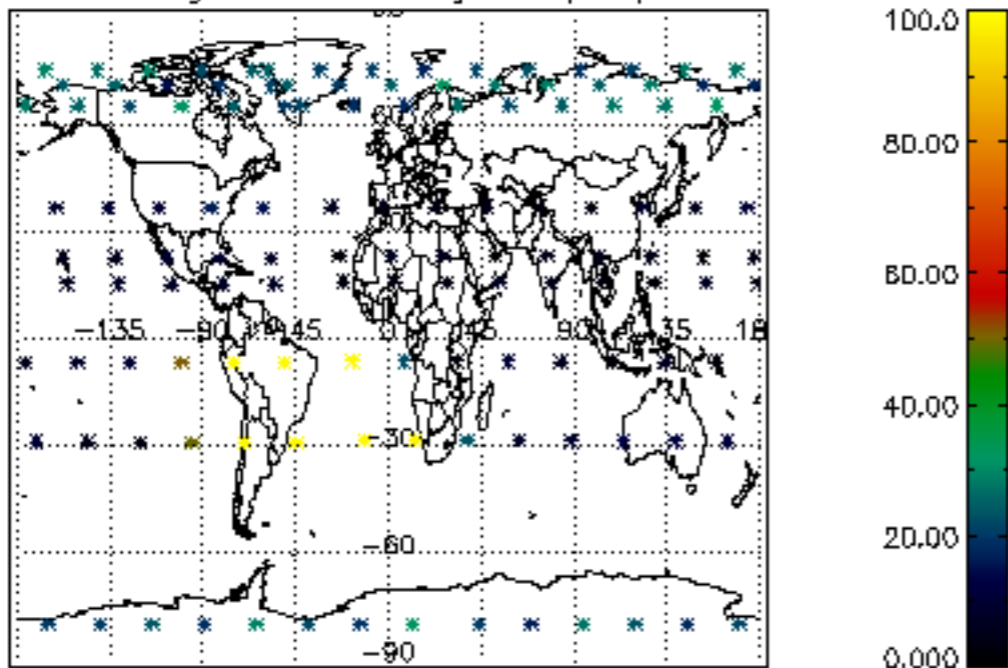
Percentage of flagged data per NO3 profile



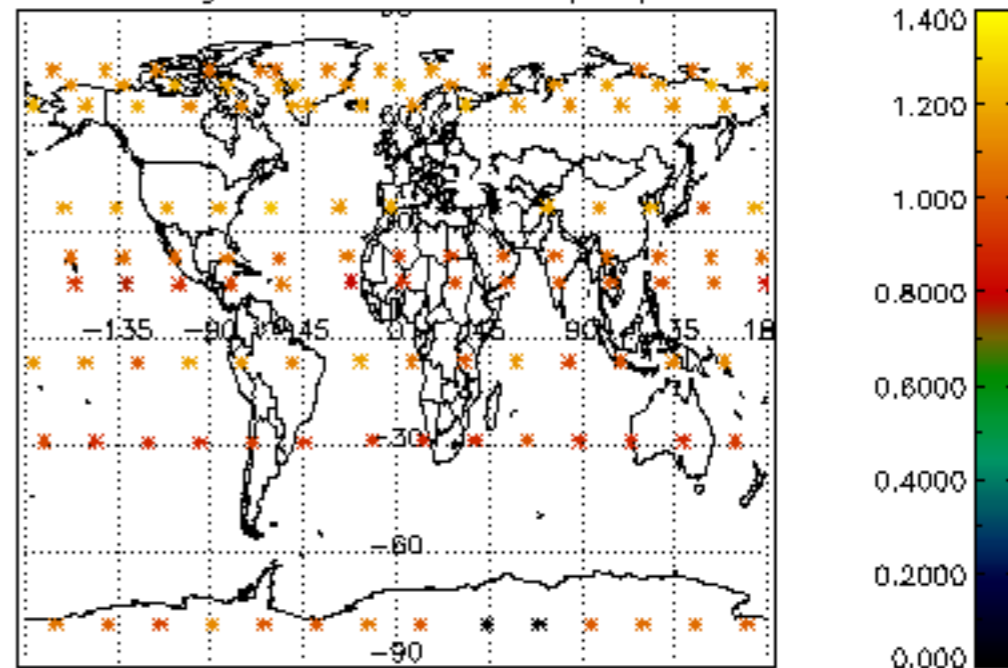




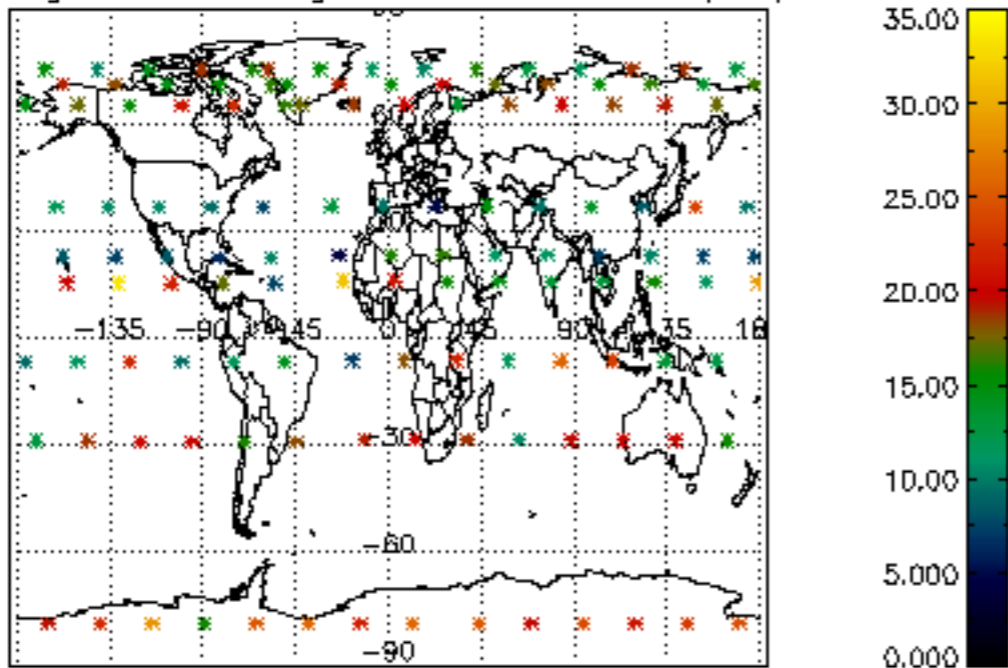
Percentage of cosmic ray hits per profile



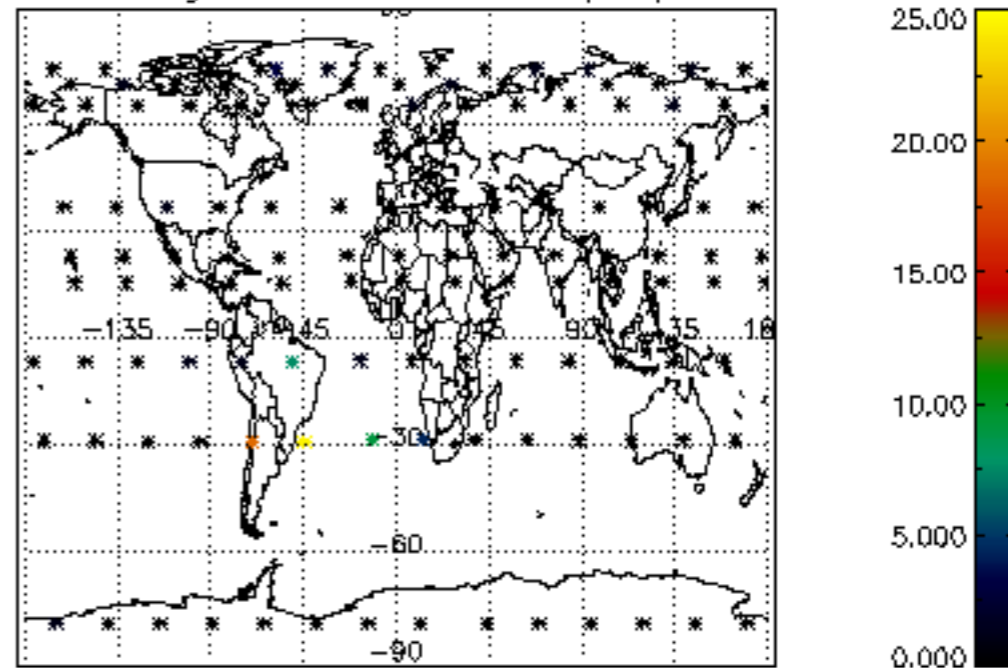
Percentage of datation errors per profile



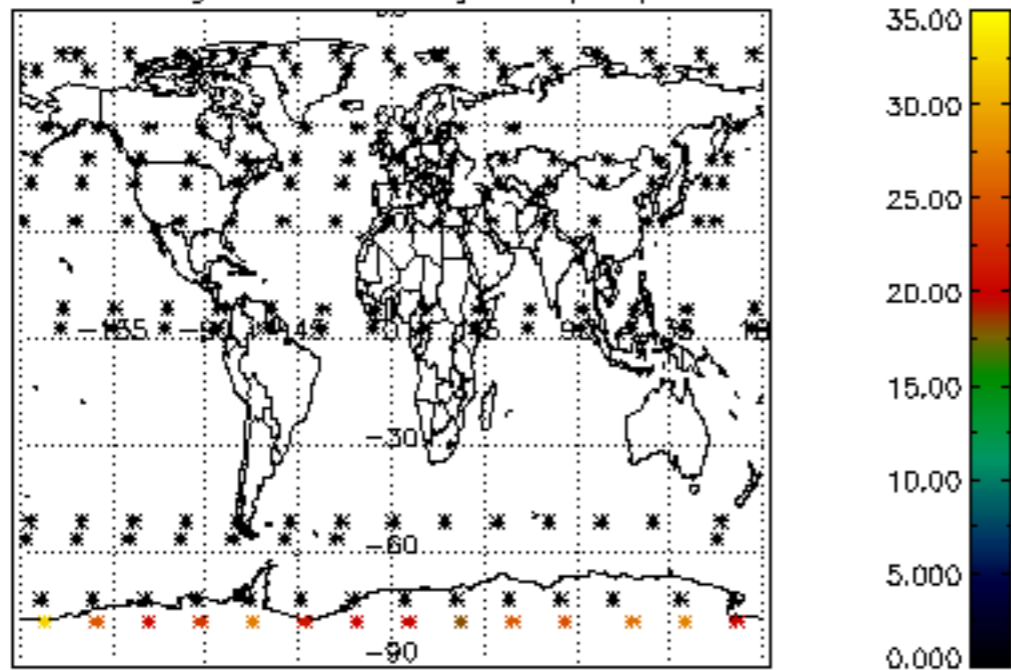
Percentage of star falling outside central band per profile



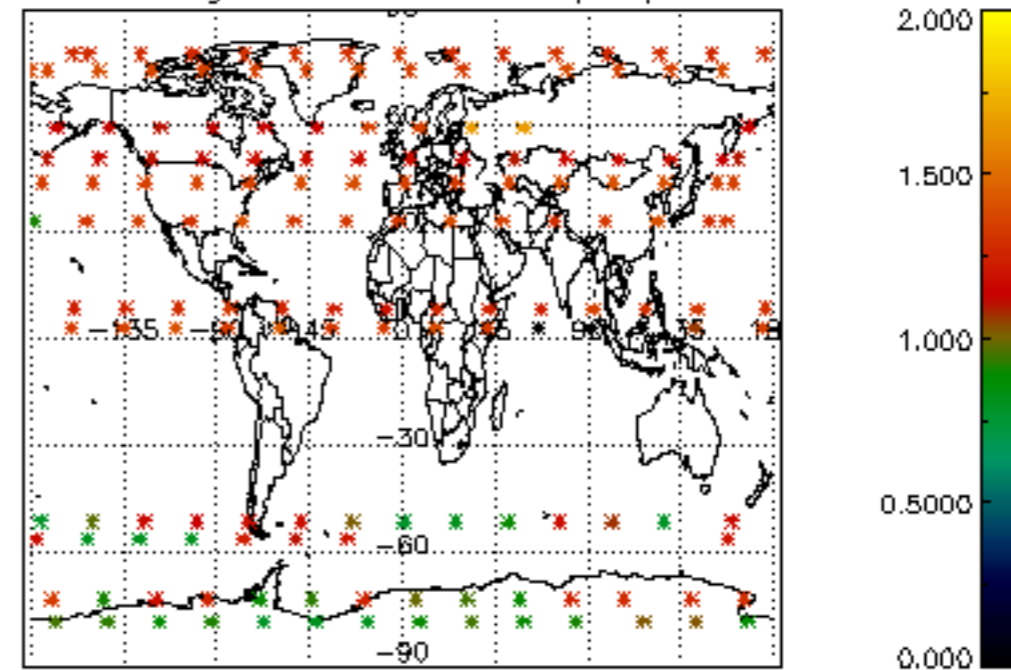
Percentage of saturation errors per profile



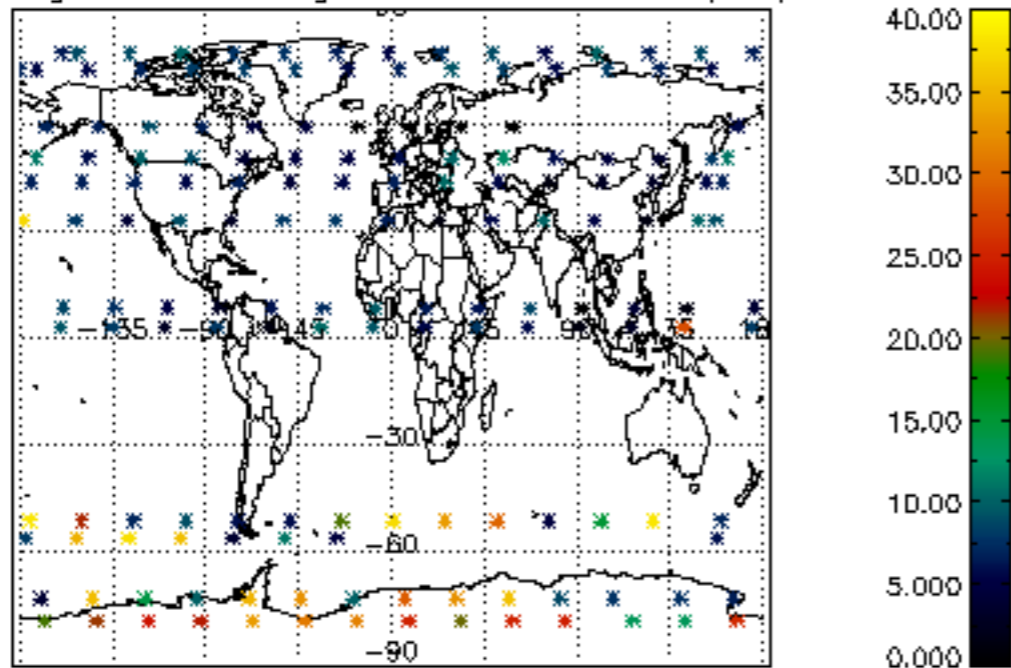
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

