

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 10:55:06
Data source version	GOMOS/6.01
Start time of products	17-07-2009 (17JUL2009 00:00:00)
Stop time of products	18-07-2009 (18JUL2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	209
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

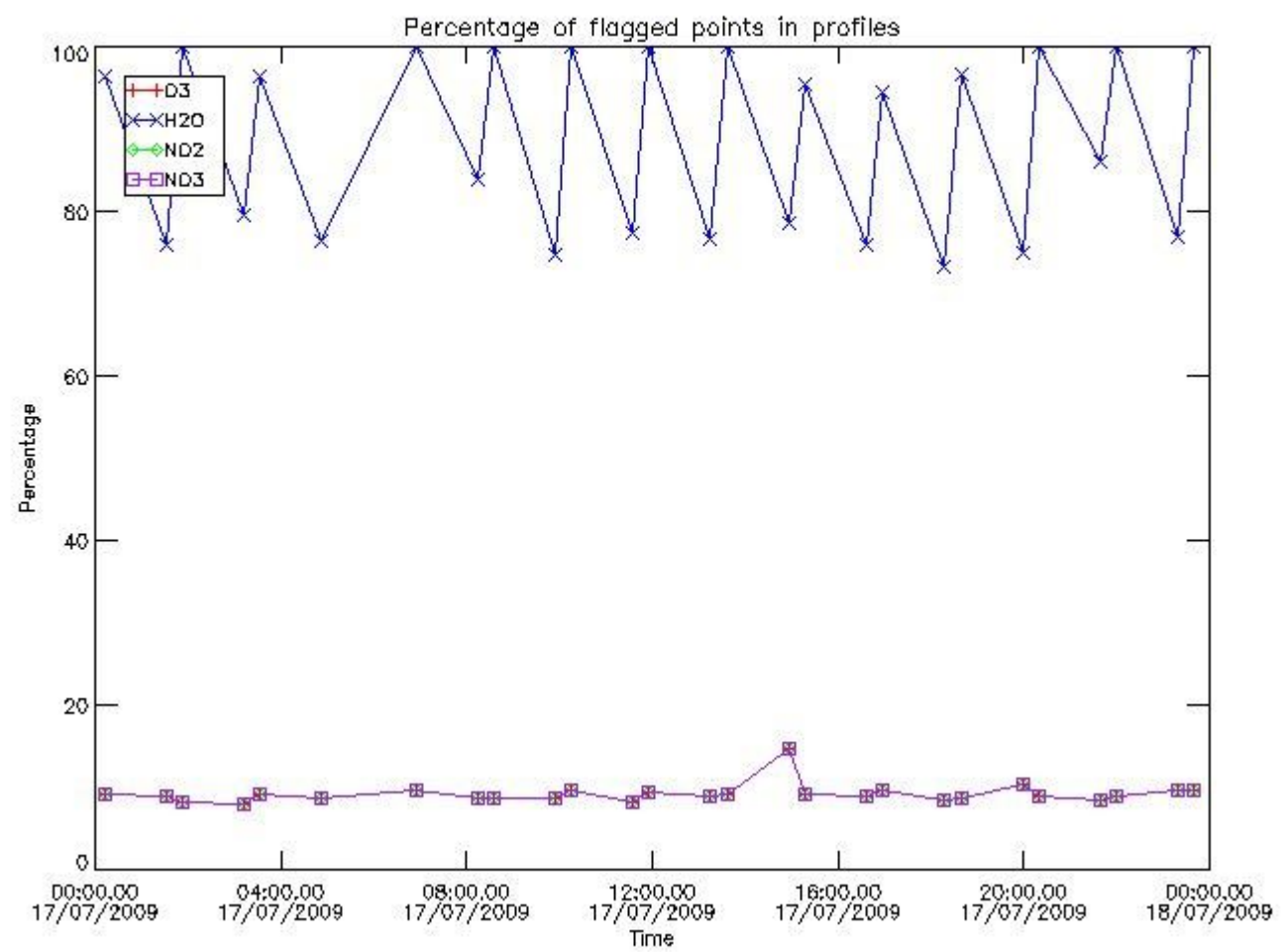
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090717_001148_000000552080_00446_38576_1064.N1	17-JUL-2009 00:11:48	Dark	55.000	84	Alp Phe	2.3970	4500.0	110	38576	No
2	GOM_NL__2PRFIN20090717_001731_000000502080_00446_38576_1065.N1	17-JUL-2009 00:17:31	Straylight	50.000	63	Bet Gru	2.1500	2800.0	100	38576	No
3	GOM_NL__2PRFIN20090717_001905_000000512080_00446_38576_1066.N1	17-JUL-2009 00:19:05	Straylight	51.000	31	Alp Gru	1.7340	15200.	102	38576	No
4	GOM_NL__2PRFIN20090717_002218_000000522080_00446_38576_1067.N1	17-JUL-2009 00:22:18	Straylight	51.500	172	Gam Gru	3.0030	13100.	103	38576	No
5	GOM_NL__2PRFIN20090717_004057_000000442080_00446_38576_1068.N1	17-JUL-2009 00:40:57	Bright	44.000	11	53Alp Aql	0.76500	8000.0	88	38576	No
6	GOM_NL__2PRFIN20090717_005206_000000392080_00446_38576_1069.N1	17-JUL-2009 00:52:06	Bright	38.500	144	18Del Cyg	2.8600	11000.	77	38576	No
7	GOM_NL__2PRFIN20090717_005422_000000612080_00446_38576_1070.N1	17-JUL-2009 00:54:22	Bright	61.000	19	50Alp Cyg	1.2460	10500.	122	38576	No
8	GOM_NL__2PRFIN20090717_005916_000000402080_00446_38576_1071.N1	17-JUL-2009 00:59:16	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	38576	No
9	GOM_NL__2PRFIN20090717_010641_000000502080_00446_38576_1072.N1	17-JUL-2009 01:06:41	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38576	No
10	GOM_NL__2PRFIN20090717_010838_000000522080_00446_38576_1073.N1	17-JUL-2009 01:08:38	Bright	51.500	68	18Alp Cas	2.2250	4500.0	103	38576	No
11	GOM_NL__2PRFIN20090717_011314_000000422080_00446_38576_1074.N1	17-JUL-2009 01:13:14	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	38576	No
12	GOM_NL__2PRFIN20090717_011436_000000472080_00446_38576_1075.N1	17-JUL-2009 01:14:36	Bright	47.000	35	33Alp Per	1.7950	6250.0	94	38576	No
13	GOM_NL__2PRFIN20090717_011734_000000502080_00446_38576_1076.N1	17-JUL-2009 01:17:34	Bright	50.000	79	26Bet Per	2.3100	13100.	100	38576	No
14	GOM_NL__2PRFIN20090717_012305_000000422080_00446_38576_1077.N1	17-JUL-2009 01:23:05	Twilight	41.500	146	25Eta Tau	2.8730	15200.	83	38576	No
15	GOM_NL__2PRFIN20090717_013110_000000692080_00446_38576_1078.N1	17-JUL-2009 01:31:10	Dark	68.500	94	92Alp Cet	2.5260	3100.0	137	38576	No
16	GOM_NL__2PRFIN20090717_015225_000000632080_00447_38577_1079.N1	17-JUL-2009 01:52:25	Dark	62.500	84	Alp Phe	2.3970	4500.0	125	38577	No
17	GOM_NL__2PRFIN20090717_015807_000000672080_00447_38577_1080.N1	17-JUL-2009 01:58:07	Straylight	67.000	63	Bet Gru	2.1500	2800.0	134	38577	No
18	GOM_NL__2PRFIN20090717_015942_000000572080_00447_38577_1081.N1	17-JUL-2009 01:59:42	Straylight	56.500	31	Alp Gru	1.7340	15200.	113	38577	No
19	GOM_NL__2PRFIN20090717_020255_000000532080_00447_38577_1082.N1	17-JUL-2009 02:02:55	Straylight	53.000	172	Gam Gru	3.0030	13100.	106	38577	No
20	GOM_NL__2PRFIN20090717_022133_000000482080_00447_38577_1083.N1	17-JUL-2009 02:21:33	Bright	48.000	11	53Alp Aql	0.76500	8000.0	96	38577	No
21	GOM_NL__2PRFIN20090717_023242_000000412080_00447_38577_1084.N1	17-JUL-2009 02:32:42	Bright	41.000	144	18Del Cyg	2.8600	11000.	82	38577	No
22	GOM_NL__2PRFIN20090717_023457_000000452080_00447_38577_1085.N1	17-JUL-2009 02:34:57	Bright	45.000	19	50Alp Cyg	1.2460	10500.	90	38577	No
23	GOM_NL__2PRFIN20090717_023952_000000402080_00447_38577_1086.N1	17-JUL-2009 02:39:52	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	38577	No
24	GOM_NL__2PRFIN20090717_024716_000000502080_00447_38577_1087.N1	17-JUL-2009 02:47:16	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38577	No
25	GOM_NL__2PRFIN20090717_024913_000000572080_00447_38577_1088.N1	17-JUL-2009 02:49:13	Bright	56.500	68	18Alp Cas	2.2250	4500.0	113	38577	No
26	GOM_NL__2PRFIN20090717_025350_000000522080_00447_38577_1089.N1	17-JUL-2009 02:53:50	Bright	52.000	160	23Gam Per	2.9300	4700.0	104	38577	No
27	GOM_NL__2PRFIN20090717_025512_000000512080_00447_38577_1090.N1	17-JUL-2009 02:55:12	Bright	51.000	35	33Alp Per	1.7950	6250.0	102	38577	No
28	GOM_NL__2PRFIN20090717_025810_000000442080_00447_38577_1091.N1	17-JUL-2009 02:58:10	Bright	43.500	79	26Bet Per	2.3100	13100.	87	38577	No
29	GOM_NL__2PRFIN20090717_030342_000000412080_00447_38577_1092.N1	17-JUL-2009 03:03:42	Twilight	41.000	146	25Eta Tau	2.8730	15200.	82	38577	No
30	GOM_NL__2PRFIN20090717_031147_000000642080_00447_38577_1093.N1	17-JUL-2009 03:11:47	Dark	64.000	94	92Alp Cet	2.5260	3100.0	128	38577	No
31	GOM_NL__2PRFIN20090717_033302_000000562080_00448_38578_1093.N1	17-JUL-2009 03:33:02	Dark	56.000	84	Alp Phe	2.3970	4500.0	112	38578	No
32	GOM_NL__2PRFIN20090717_033844_000000542080_00448_38578_1094.N1	17-JUL-2009 03:38:44	Straylight	54.000	63	Bet Gru	2.1500	2800.0	108	38578	No
33	GOM_NL__2PRFIN20090717_034018_000000472080_00448_38578_1095.N1	17-JUL-2009 03:40:18	Straylight	46.500	31	Alp Gru	1.7340	15200.	93	38578	No
34	GOM_NL__2PRFIN20090717_034332_000000512080_00448_38578_1096.N1	17-JUL-2009 03:43:32	Straylight	50.500	172	Gam Gru	3.0030	13100.	101	38578	No
35	GOM_NL__2PRFIN20090717_040208_000000492080_00448_38578_1097.N1	17-JUL-2009 04:02:08	Bright	48.500	11	53Alp Aql	0.76500	8000.0	97	38578	No
36	GOM_NL__2PRFIN20090717_041317_000000422080_00448_38578_1098.N1	17-JUL-2009 04:13:17	Bright	41.500	144	18Del Cyg	2.8600	11000.	83	38578	No
37	GOM_NL__2PRFIN20090717_041532_000000452080_00448_38578_1099.N1	17-JUL-2009 04:15:32	Bright	45.000	19	50Alp Cyg	1.2460	10500.	90	38578	No
38	GOM_NL__2PRFIN20090717_042027_000000412080_00448_38578_1100.N1	17-JUL-2009 04:20:27	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	38578	No
39	GOM_NL__2PRFIN20090717_042752_000000502080_00448_38578_1101.N1	17-JUL-2009 04:27:52	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38578	No
40	GOM_NL__2PRFIN20090717_042948_000000522080_00448_38578_1102.N1	17-JUL-2009 04:29:48	Bright	51.500	68	18Alp Cas	2.2250	4500.0	103	38578	No
41	GOM_NL__2PRFIN20090717_043426_000000452080_00448_38578_1103.N1	17-JUL-2009 04:34:26	Bright	45.000	160	23Gam Per	2.9300	4700.0	90	38578	No
42	GOM_NL__2PRFIN20090717_043548_000000452080_00448_38578_1104.N1	17-JUL-2009 04:35:48	Bright	44.500	35	33Alp Per	1.7950	6250.0	89	38578	No

161	GOM_NL__2PRFIN20090717_184901_000000502080_00457_38587_1252.N1	17-JUL-2009 18:49:01	Straylight	50.000	172	Gam Gru	3.0030	13100.	100	38587	No
162	GOM_NL__2PRFIN20090717_190827_000000392080_00457_38587_1253.N1	17-JUL-2009 19:08:27	Bright	39.000	168	17Zet Aql	2.9860	11000.	78	38587	No
163	GOM_NL__2PRFIN20090717_191836_000000432080_00457_38587_1254.N1	17-JUL-2009 19:18:36	Bright	42.500	144	18Del Cyg	2.8600	11000.	85	38587	No
164	GOM_NL__2PRFIN20090717_192048_000000502080_00457_38587_1255.N1	17-JUL-2009 19:20:48	Bright	49.500	19	50Alp Cyg	1.2460	10500.	99	38587	No
165	GOM_NL__2PRFIN20090717_192546_000000452080_00457_38587_1256.N1	17-JUL-2009 19:25:46	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	38587	No
166	GOM_NL__2PRFIN20090717_193309_000000532080_00457_38587_1257.N1	17-JUL-2009 19:33:09	Bright	53.000	74	11Bet Cas	2.2680	6600.0	106	38587	No
167	GOM_NL__2PRFIN20090717_193506_000000482080_00457_38587_1258.N1	17-JUL-2009 19:35:06	Bright	48.000	68	18Alp Cas	2.2250	4500.0	96	38587	No
168	GOM_NL__2PRFIN20090717_193948_000000412080_00457_38587_1259.N1	17-JUL-2009 19:39:48	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	38587	No
169	GOM_NL__2PRFIN20090717_194110_000000432080_00457_38587_1260.N1	17-JUL-2009 19:41:10	Bright	42.500	35	33Alp Per	1.7950	6250.0	85	38587	No
170	GOM_NL__2PRFIN20090717_194409_000000502080_00457_38587_1261.N1	17-JUL-2009 19:44:09	Bright	49.500	79	26Bet Per	2.3100	13100.	99	38587	No
171	GOM_NL__2PRFIN20090717_194706_000000442080_00457_38587_1262.N1	17-JUL-2009 19:47:06	Twilight	44.000	150	44Zet Per	2.8900	28000.	88	38587	No
172	GOM_NL__2PRFIN20090717_194943_000000452080_00457_38587_1263.N1	17-JUL-2009 19:49:43	Twilight	44.500	146	25Eta Tau	2.8730	15200.	89	38587	No
173	GOM_NL__2PRFIN20090717_195754_000000652080_00457_38587_1264.N1	17-JUL-2009 19:57:54	Dark	64.500	94	92Alp Cet	2.5260	3100.0	129	38587	No
174	GOM_NL__2PRFIN20090717_201913_000000632080_00458_38588_1265.N1	17-JUL-2009 20:19:13	Dark	62.500	84	Alp Phe	2.3970	4500.0	125	38588	No
175	GOM_NL__2PRFIN20090717_202452_000000502080_00458_38588_1266.N1	17-JUL-2009 20:24:52	Straylight	50.000	63	Bet Gru	2.1500	2800.0	100	38588	No
176	GOM_NL__2PRFIN20090717_202625_000000452080_00458_38588_1267.N1	17-JUL-2009 20:26:25	Straylight	44.500	31	Alp Gru	1.7340	15200.	89	38588	No
177	GOM_NL__2PRFIN20090717_202938_000000532080_00458_38588_1268.N1	17-JUL-2009 20:29:38	Straylight	53.000	172	Gam Gru	3.0030	13100.	106	38588	No
178	GOM_NL__2PRFIN20090717_204903_000000412080_00458_38588_1269.N1	17-JUL-2009 20:49:03	Bright	40.500	168	17Zet Aql	2.9860	11000.	81	38588	No
179	GOM_NL__2PRFIN20090717_205912_000000402080_00458_38588_1270.N1	17-JUL-2009 20:59:12	Bright	40.000	144	18Del Cyg	2.8600	11000.	80	38588	No
180	GOM_NL__2PRFIN20090717_210123_000000502080_00458_38588_1271.N1	17-JUL-2009 21:01:23	Bright	49.500	19	50Alp Cyg	1.2460	10500.	99	38588	No
181	GOM_NL__2PRFIN20090717_210621_000000442080_00458_38588_1272.N1	17-JUL-2009 21:06:21	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	38588	No
182	GOM_NL__2PRFIN20090717_211344_000000742080_00458_38588_1273.N1	17-JUL-2009 21:13:44	Bright	74.000	74	11Bet Cas	2.2680	6600.0	148	38588	No
183	GOM_NL__2PRFIN20090717_211541_000000462080_00458_38588_1274.N1	17-JUL-2009 21:15:41	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	38588	No
184	GOM_NL__2PRFIN20090717_212023_000000422080_00458_38588_1275.N1	17-JUL-2009 21:20:23	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	38588	No
185	GOM_NL__2PRFIN20090717_212146_000000612080_00458_38588_1276.N1	17-JUL-2009 21:21:46	Bright	61.000	35	33Alp Per	1.7950	6250.0	122	38588	No
186	GOM_NL__2PRFIN20090717_212445_000000462080_00458_38588_1277.N1	17-JUL-2009 21:24:45	Bright	45.500	79	26Bet Per	2.3100	13100.	91	38588	No
187	GOM_NL__2PRFIN20090717_212742_000000462080_00458_38588_1278.N1	17-JUL-2009 21:27:42	Twilight	45.500	150	44Zet Per	2.8900	28000.	91	38588	No
188	GOM_NL__2PRFIN20090717_213020_000000452080_00458_38588_1279.N1	17-JUL-2009 21:30:20	Twilight	45.000	146	25Eta Tau	2.8730	15200.	90	38588	No
189	GOM_NL__2PRFIN20090717_213831_000000612080_00458_38588_1280.N1	17-JUL-2009 21:38:31	Dark	60.500	94	92Alp Cet	2.5260	3100.0	121	38588	No
190	GOM_NL__2PRFIN20090717_215951_000000572080_00459_38589_1279.N1	17-JUL-2009 21:59:51	Dark	56.500	84	Alp Phe	2.3970	4500.0	113	38589	No
191	GOM_NL__2PRFIN20090717_220529_000000622080_00459_38589_1280.N1	17-JUL-2009 22:05:29	Straylight	61.500	63	Bet Gru	2.1500	2800.0	123	38589	No
192	GOM_NL__2PRFIN20090717_220701_000000502080_00459_38589_1281.N1	17-JUL-2009 22:07:01	Straylight	49.500	31	Alp Gru	1.7340	15200.	99	38589	No
193	GOM_NL__2PRFIN20090717_221015_000000502080_00459_38589_1282.N1	17-JUL-2009 22:10:15	Straylight	50.000	172	Gam Gru	3.0030	13100.	100	38589	No
194	GOM_NL__2PRFIN20090717_222938_000000382080_00459_38589_1283.N1	17-JUL-2009 22:29:38	Bright	38.000	168	17Zet Aql	2.9860	11000.	76	38589	No
195	GOM_NL__2PRFIN20090717_223947_000000412080_00459_38589_1284.N1	17-JUL-2009 22:39:47	Bright	41.000	144	18Del Cyg	2.8600	11000.	82	38589	No
196	GOM_NL__2PRFIN20090717_224158_000000502080_00459_38589_1285.N1	17-JUL-2009 22:41:58	Bright	50.000	19	50Alp Cyg	1.2460	10500.	100	38589	No
197	GOM_NL__2PRFIN20090717_224656_000000442080_00459_38589_1286.N1	17-JUL-2009 22:46:56	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	38589	No
198	GOM_NL__2PRFIN20090717_225419_000000502080_00459_38589_1287.N1	17-JUL-2009 22:54:19	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38589	No
199	GOM_NL__2PRFIN20090717_225616_000000462080_00459_38589_1288.N1	17-JUL-2009 22:56:16	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	38589	No
200	GOM_NL__2PRFIN20090717_230059_000000462080_00459_38589_1289.N1	17-JUL-2009 23:00:59	Bright	45.500	160	23Gam Per	2.9300	4700.0	91	38589	No
201	GOM_NL__2PRFIN20090717_230222_000000612080_00459_38589_1290.N1	17-JUL-2009 23:02:22	Bright	61.000	35	33Alp Per	1.7950	6250.0	122	38589	No
202	GOM_NL__2PRFIN20090717_230520_000000462080_00459_38589_1291.N1	17-JUL-2009 23:05:20	Bright	45.500	79	26Bet Per	2.3100	13100.	91	38589	No
203	GOM_NL__2PRFIN20090717_230818_000000402080_00459_38589_1292.N1	17-JUL-2009 23:08:18	Twilight	40.000	150	44Zet Per	2.8900	28000.	80	38589	No
204	GOM_NL__2PRFIN20090717_231056_000000462080_00459_38589_1293.N1	17-JUL-2009 23:10:56	Twilight	46.000	146	25Eta Tau	2.8730	15200.	92	38589	No
205	GOM_NL__2PRFIN20090717_231908_000000632080_00459_38589_1294.N1	17-JUL-2009 23:19:08	Dark	62.500	94	92Alp Cet	2.5260	3100.0	125	38589	No
206	GOM_NL__2PRFIN20090717_234027_000000542080_00460_38590_1296.N1	17-JUL-2009 23:40:27	Dark	53.500	84	Alp Phe	2.3970	4500.0	107	38590	No
207	GOM_NL__2PRFIN20090717_234605_000000562080_00460_38590_1297.N1	17-JUL-2009 23:46:05	Straylight	56.000	63	Bet Gru	2.1500	2800.0	112	38590	No
208	GOM_NL__2PRFIN20090717_234738_000000522080_00460_38590_1298.N1	17-JUL-2009 23:47:38	Straylight	51.500	31	Alp Gru	1.7340	15200.	103	38590	No
209	GOM_NL__2PRFIN20090717_235051_000000512080_00460_38590_1299.N1	17-JUL-2009 23:50:51	Straylight	51.000	172	Gam Gru	3.0030	13100.	102	38590	No

3. Quality information per product

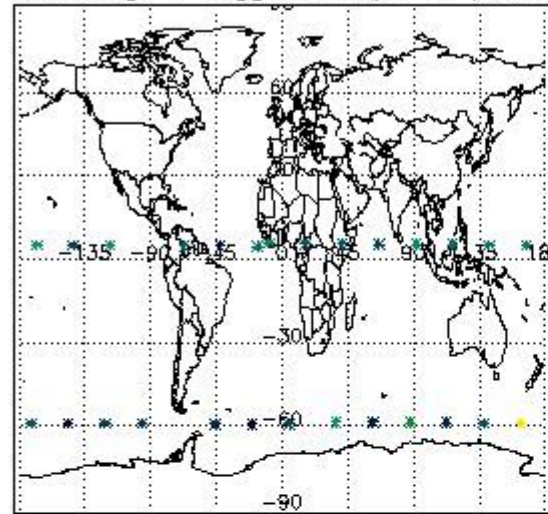
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

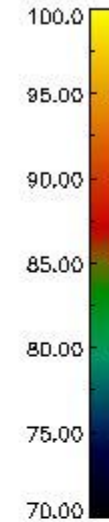
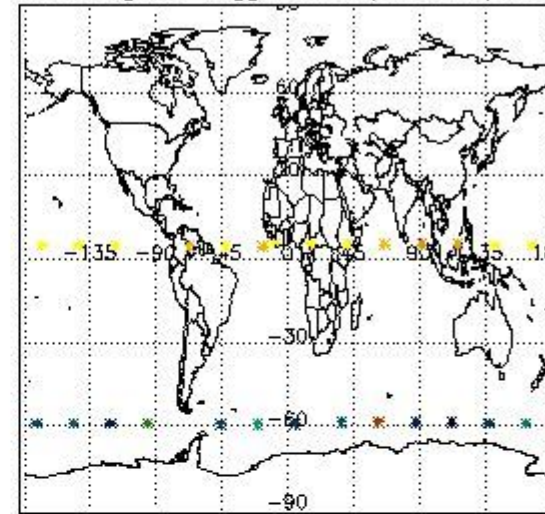


3.2 Plot quality information per product (world map)

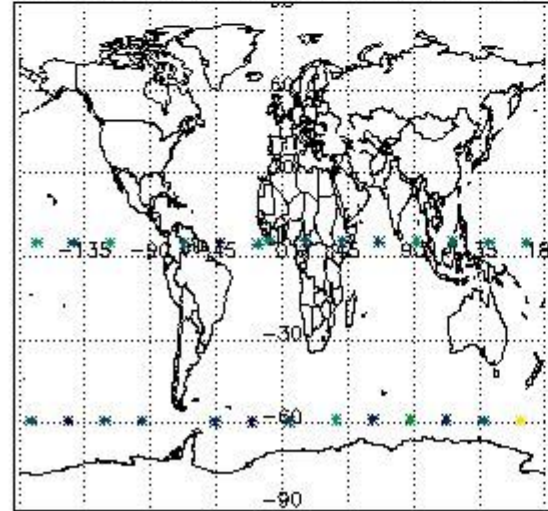
Percentage of flagged data per O3 profile



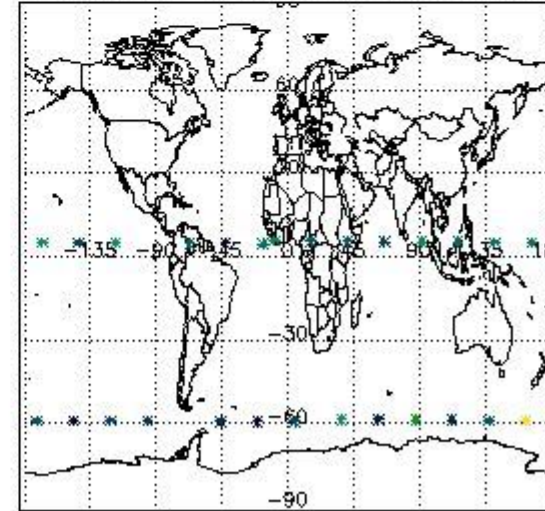
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

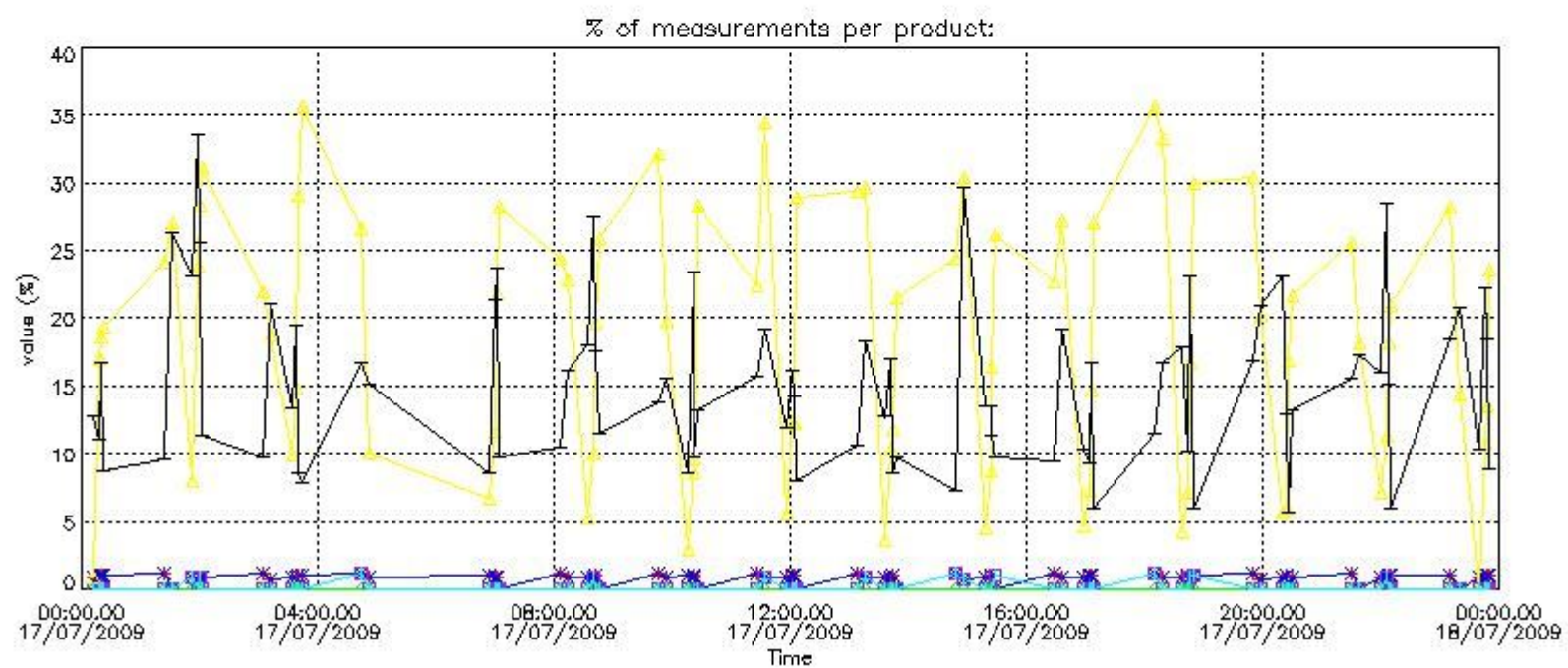
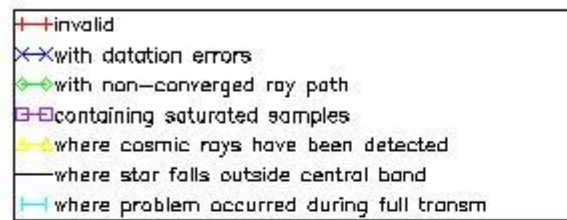


4. Level 1 quality information per product

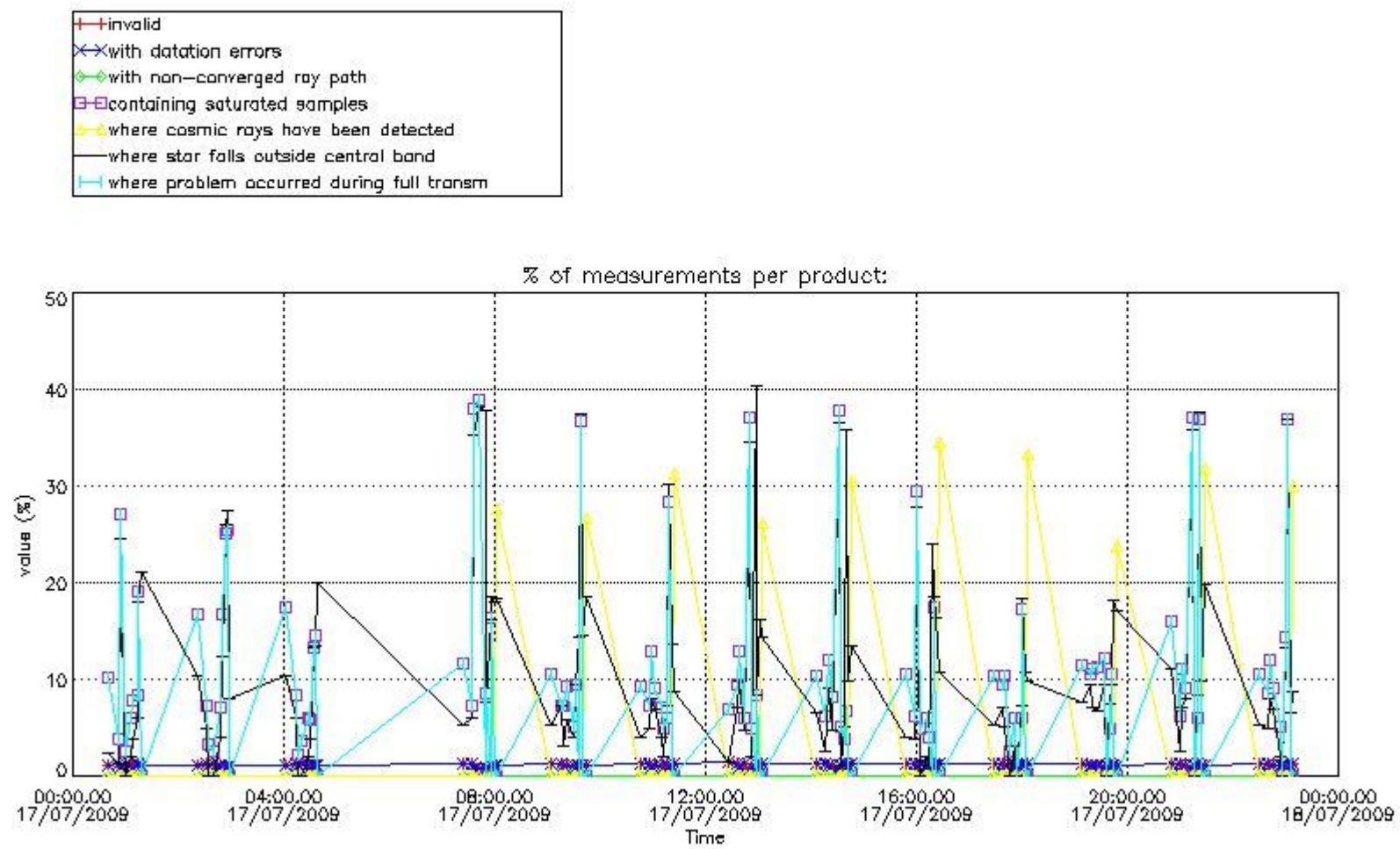
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



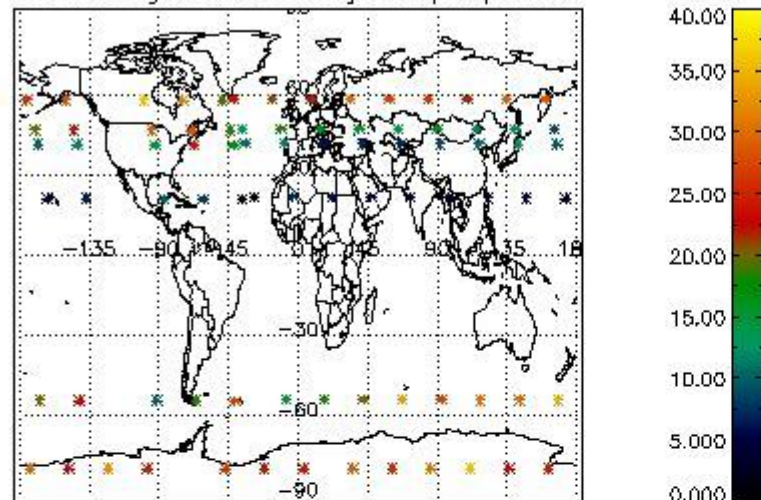
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



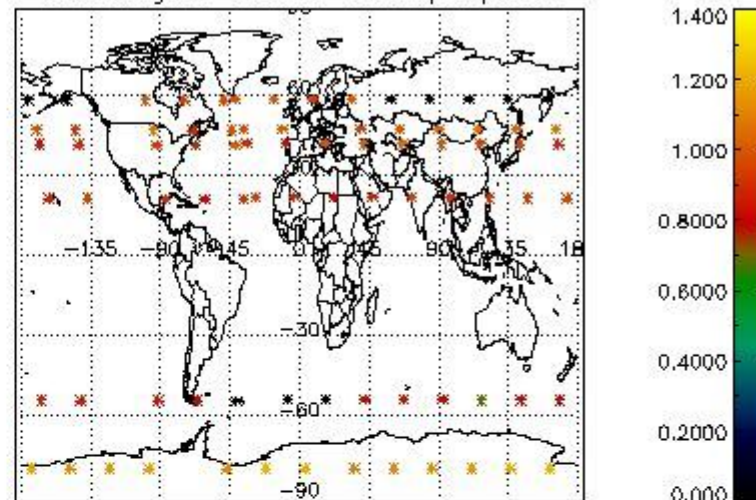
4.2 Plot quality information per product coming from level 1b processing (world map)

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

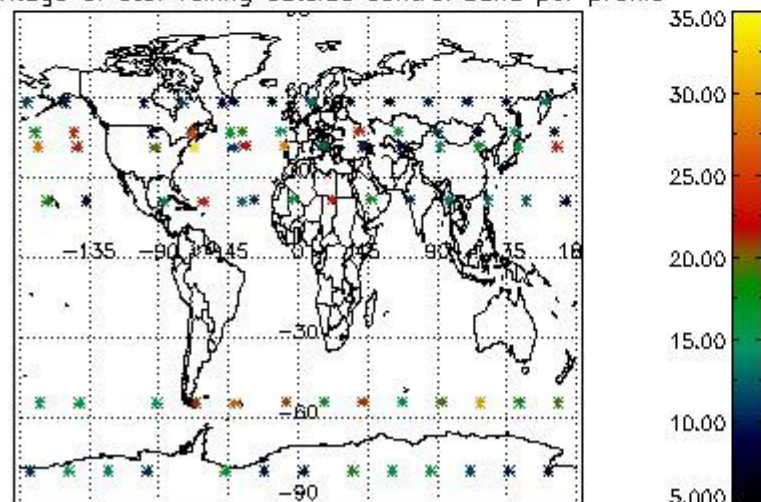
Percentage of cosmic ray hits per profile



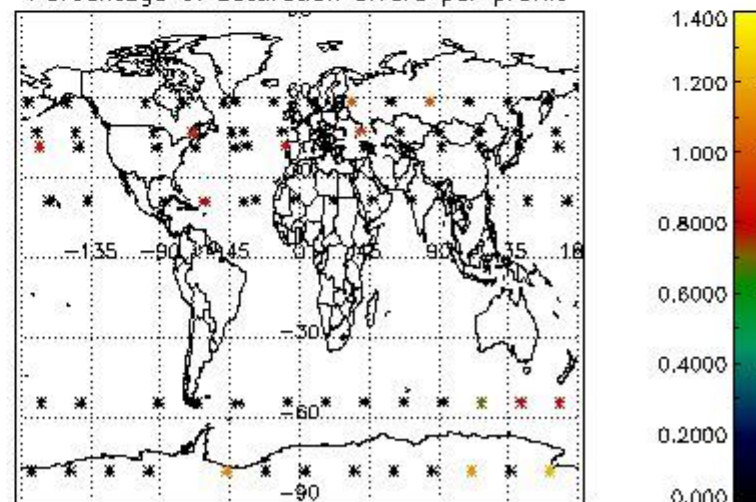
Percentage of datation errors per profile



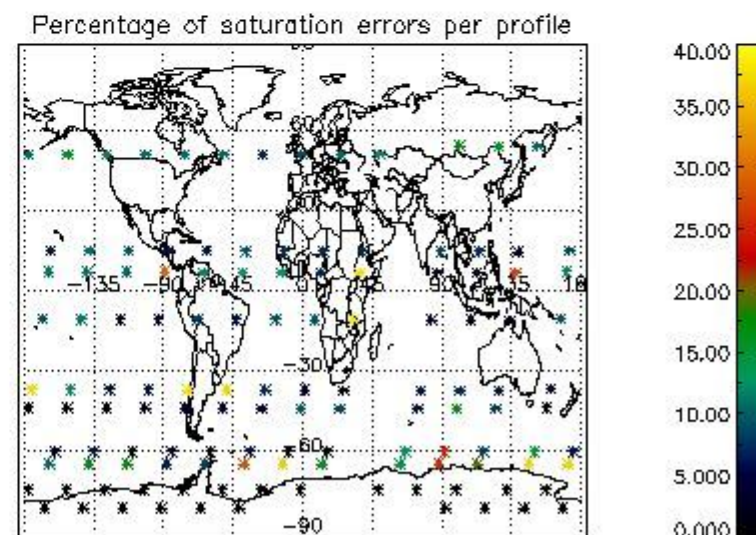
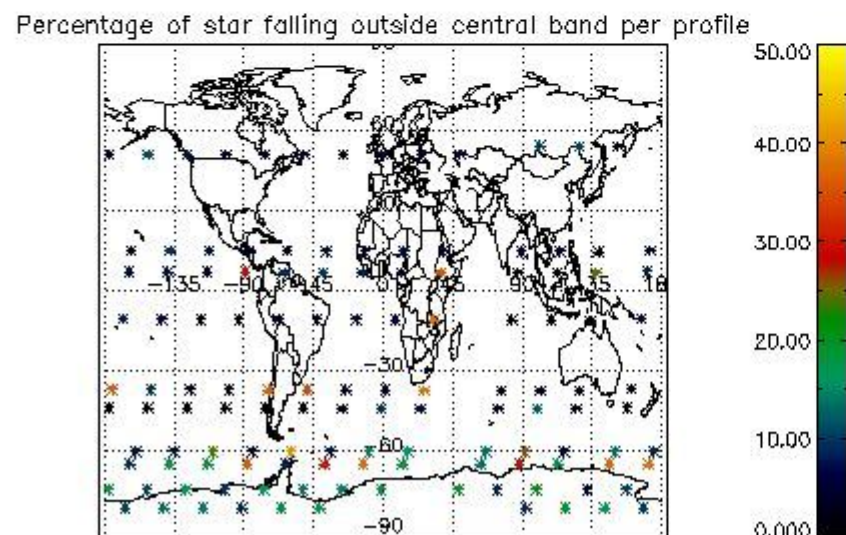
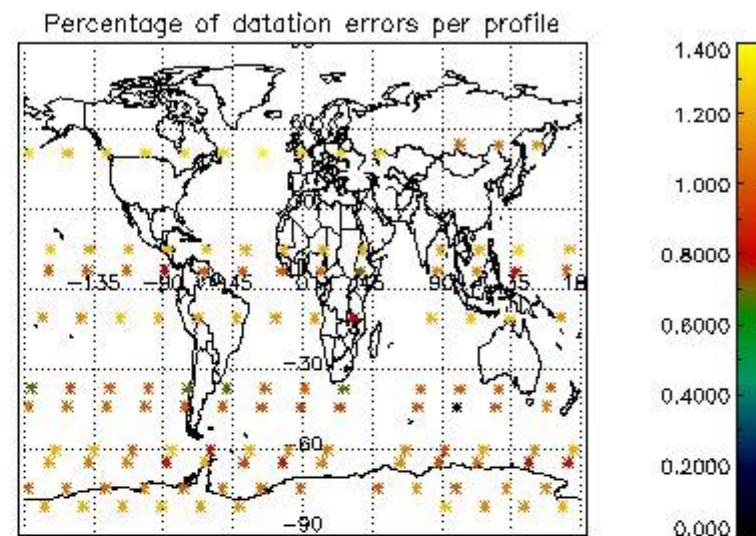
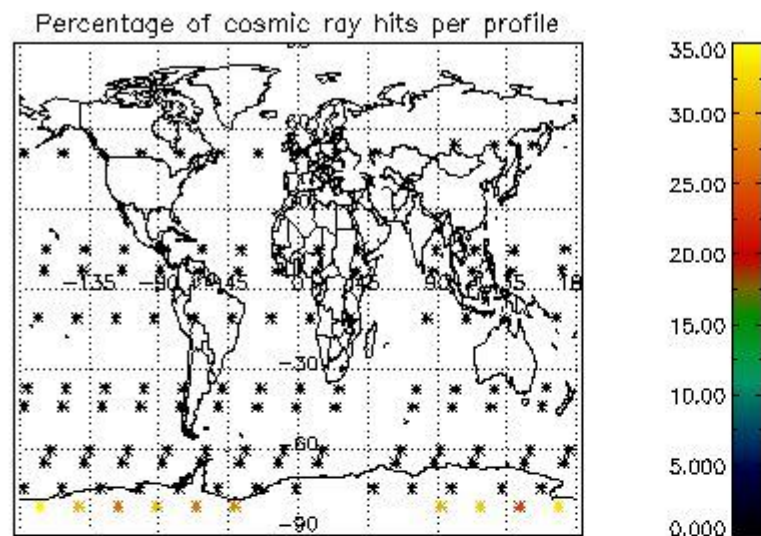
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

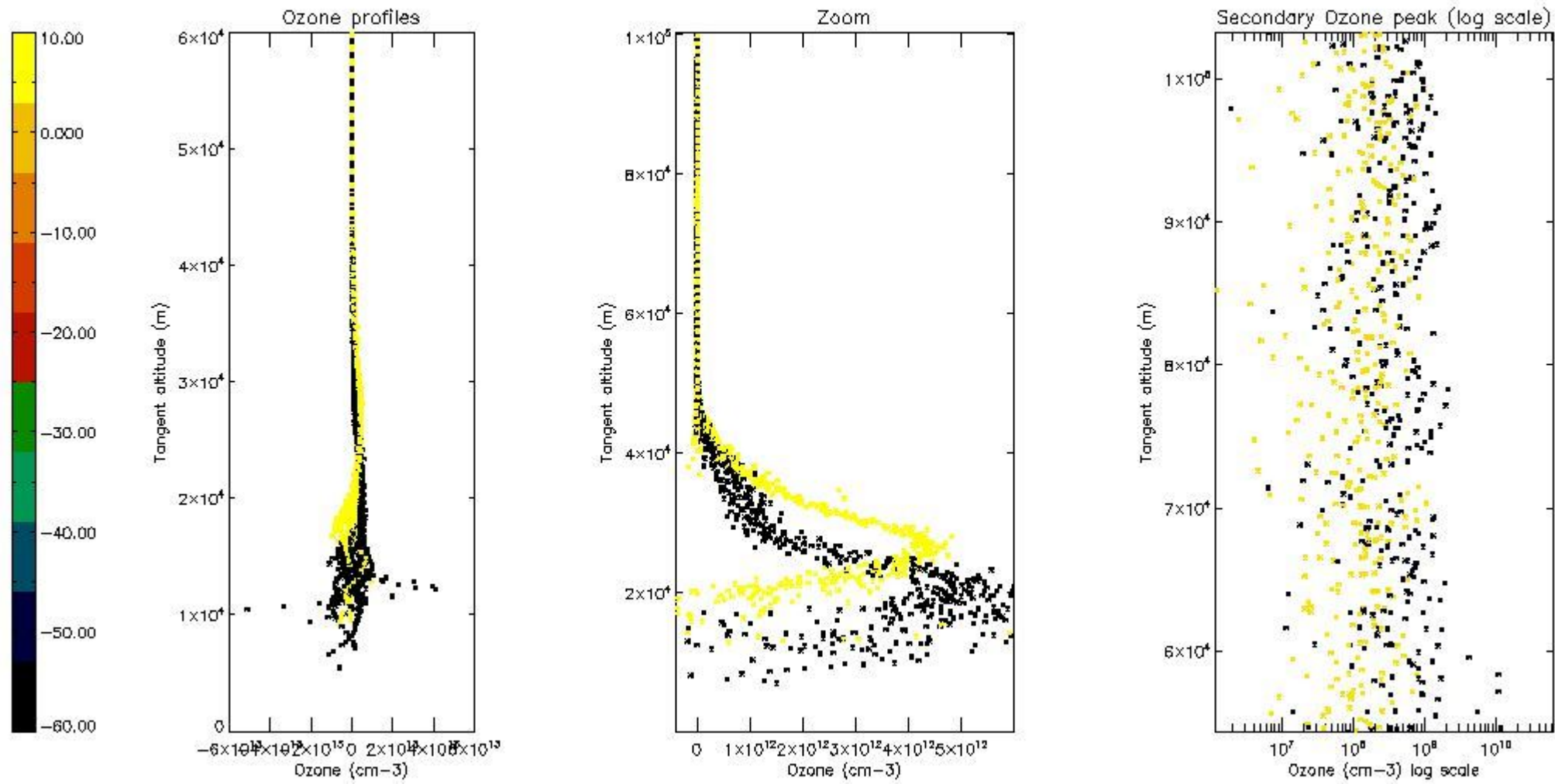
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	16
STD < 20	4

STD < 10	2
STD < 5	0

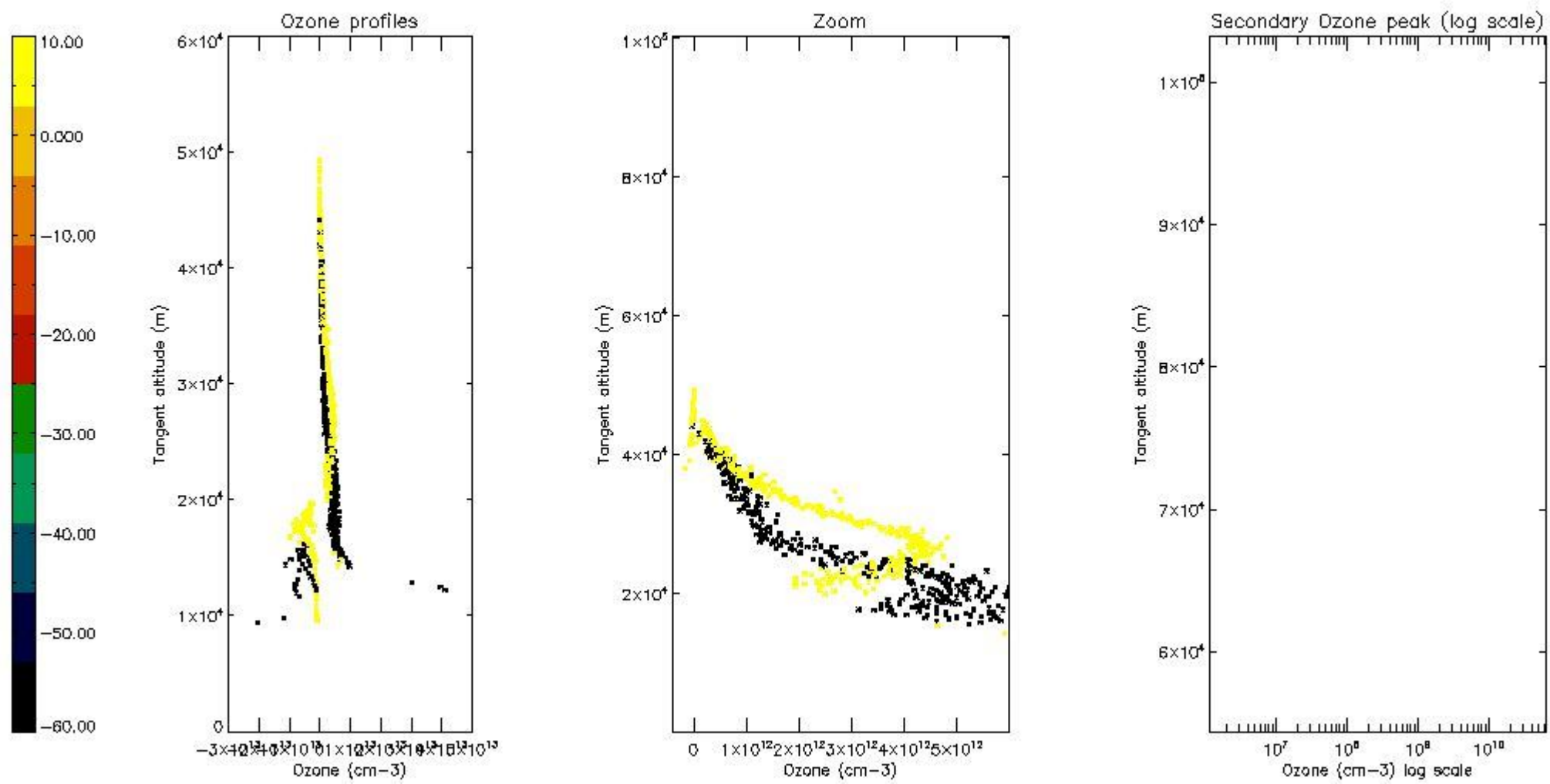
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



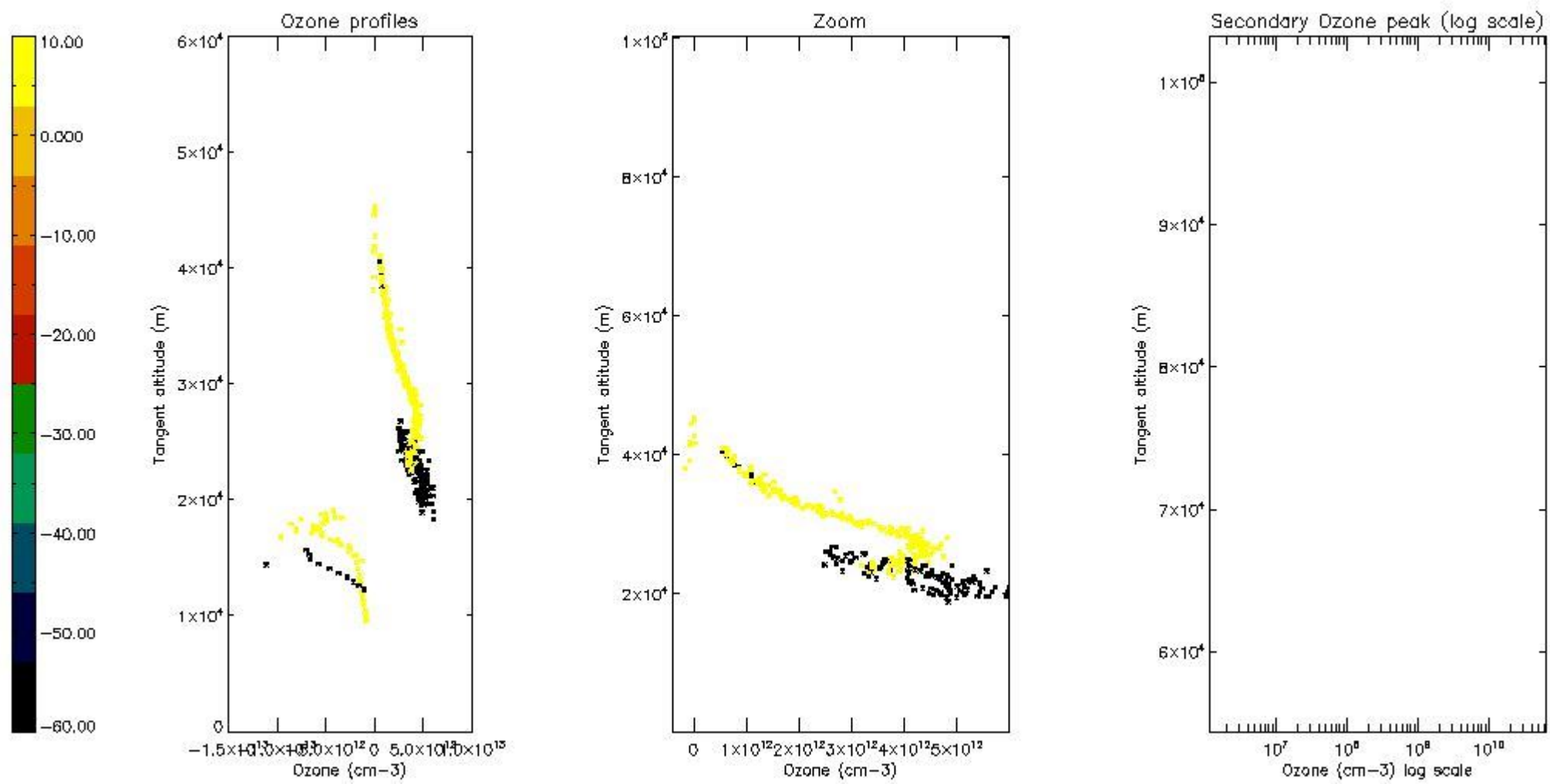
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



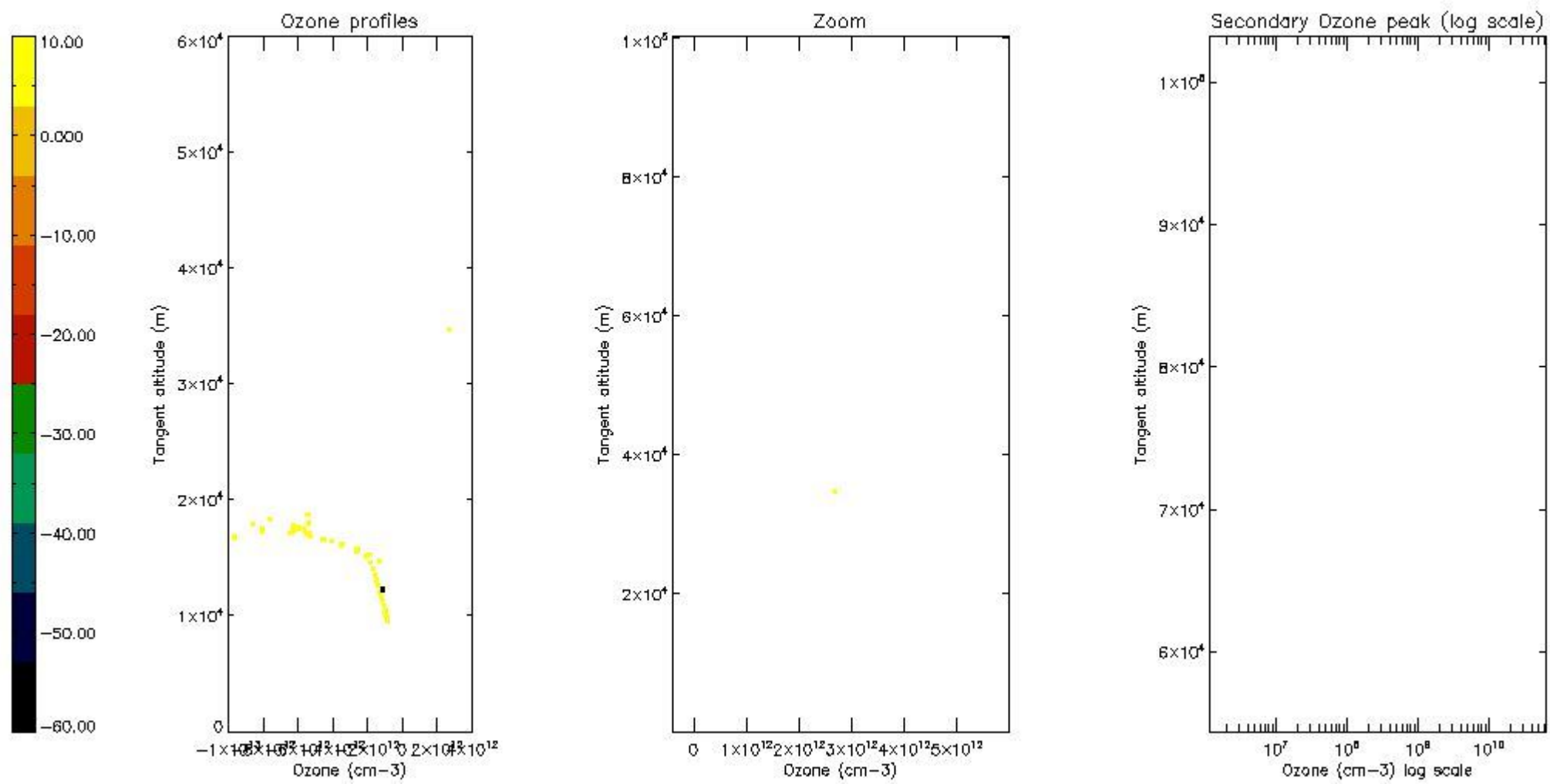
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



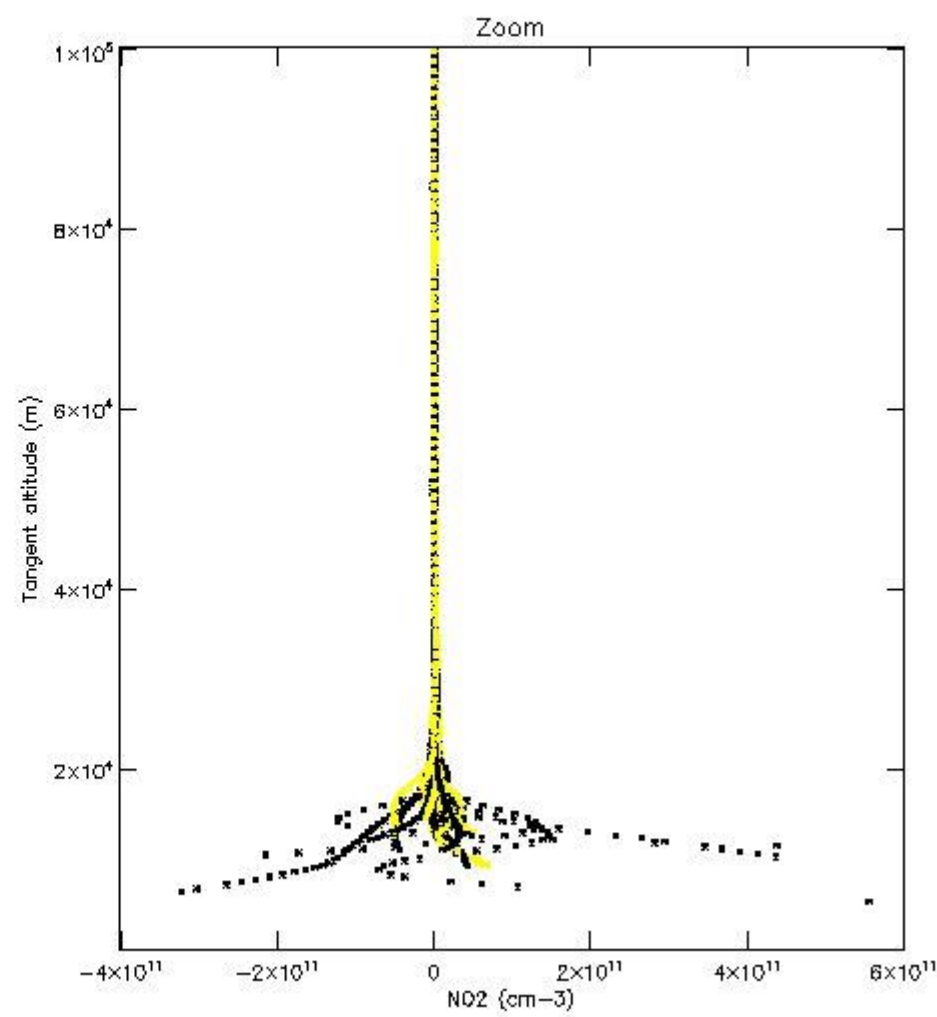
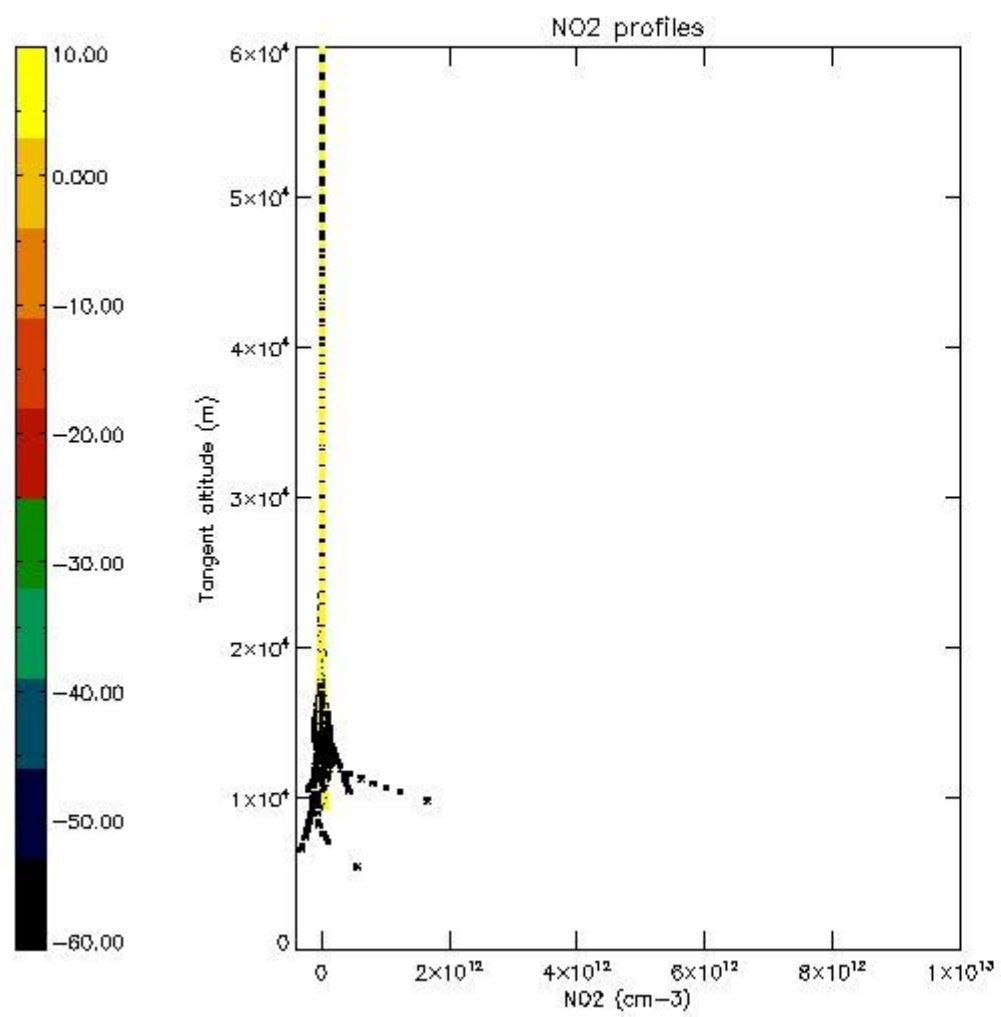
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



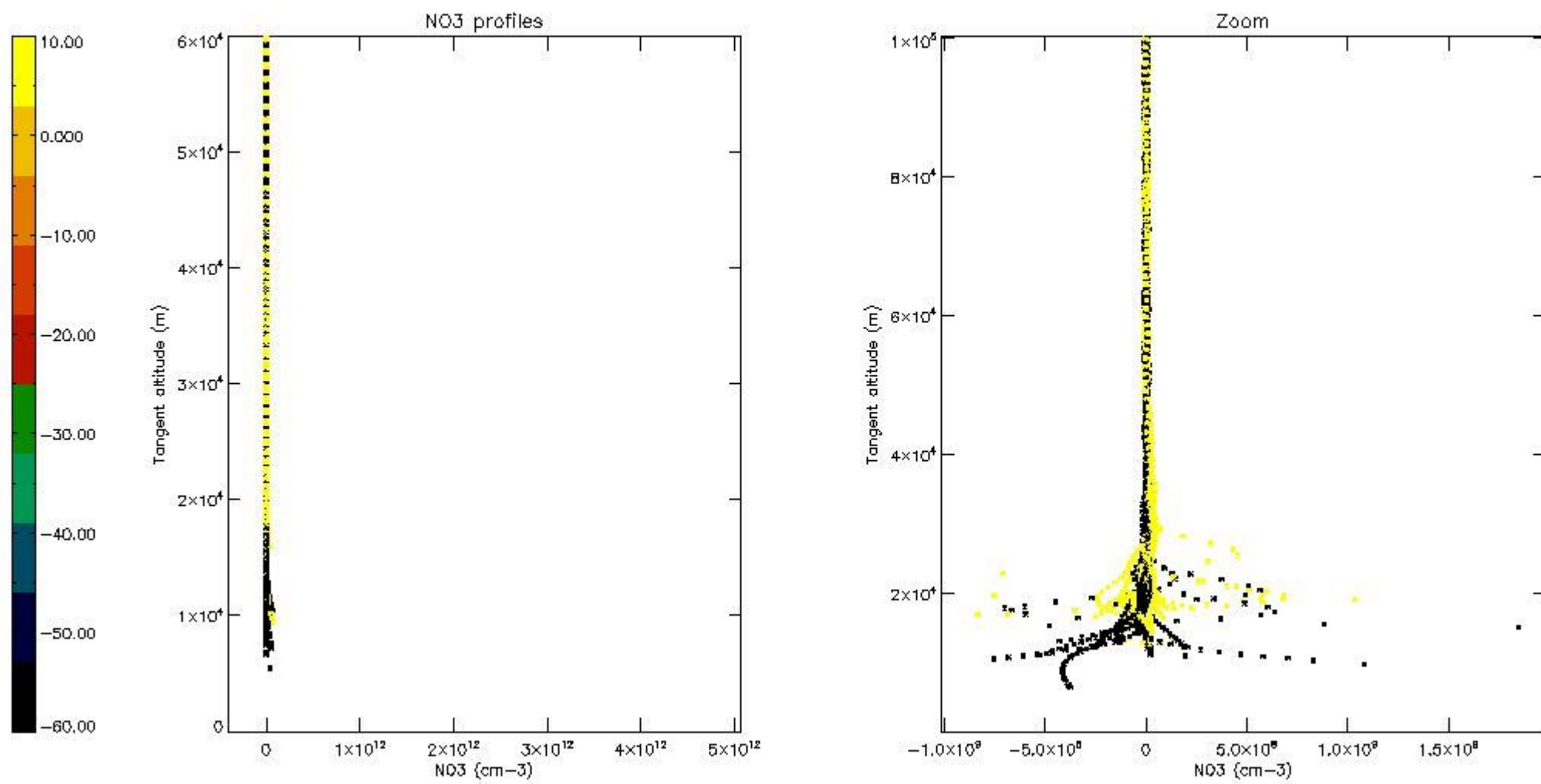
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



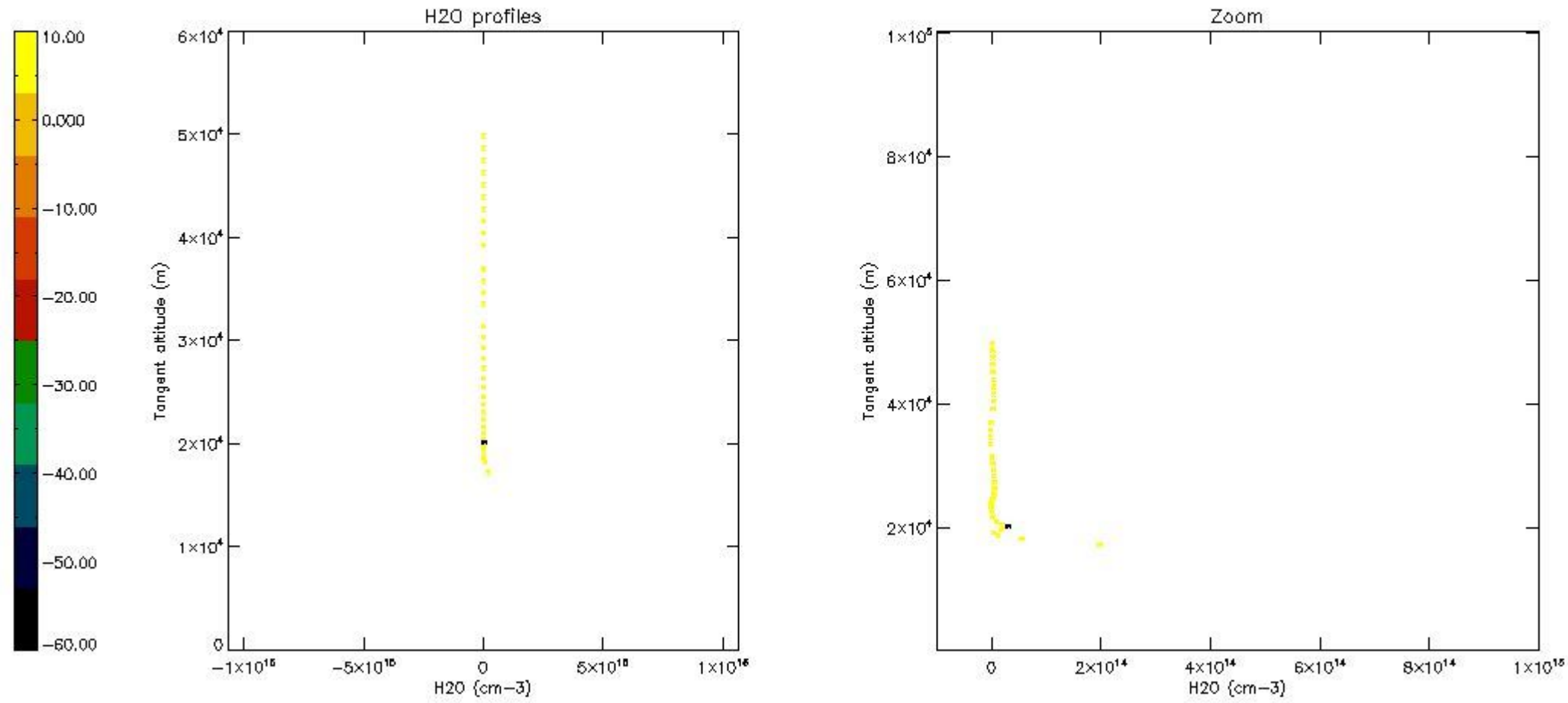
5.7 Plot NO3 profiles for all STD (dark without errors)

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	17-JUL-2009 00:11:48
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	17-JUL-2009 00:11:48
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	17-JUL-2009 00:11:48

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 10:55:06
Data source version	GOMOS/6.01
Start time of products	17-07-2009 (17JUL2009 00:00:00)
Stop time of products	18-07-2009 (18JUL2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	209
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

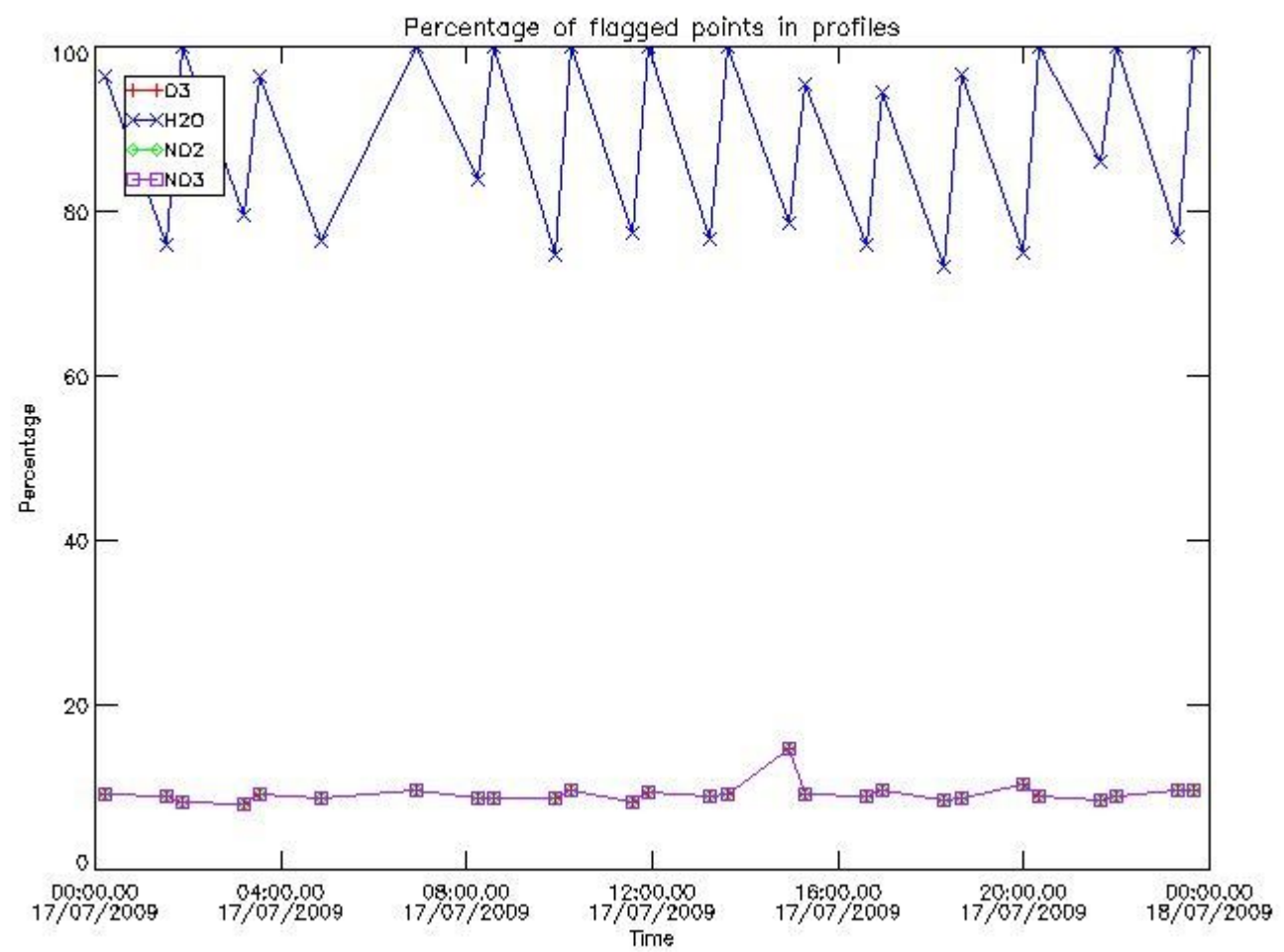
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090717_001148_000000552080_00446_38576_1064.N1	17-JUL-2009 00:11:48	Dark	55.000	84	Alp Phe	2.3970	4500.0	110	38576	No
2	GOM_NL__2PRFIN20090717_001731_000000502080_00446_38576_1065.N1	17-JUL-2009 00:17:31	Straylight	50.000	63	Bet Gru	2.1500	2800.0	100	38576	No
3	GOM_NL__2PRFIN20090717_001905_000000512080_00446_38576_1066.N1	17-JUL-2009 00:19:05	Straylight	51.000	31	Alp Gru	1.7340	15200.	102	38576	No
4	GOM_NL__2PRFIN20090717_002218_000000522080_00446_38576_1067.N1	17-JUL-2009 00:22:18	Straylight	51.500	172	Gam Gru	3.0030	13100.	103	38576	No
5	GOM_NL__2PRFIN20090717_004057_000000442080_00446_38576_1068.N1	17-JUL-2009 00:40:57	Bright	44.000	11	53Alp Aql	0.76500	8000.0	88	38576	No
6	GOM_NL__2PRFIN20090717_005206_000000392080_00446_38576_1069.N1	17-JUL-2009 00:52:06	Bright	38.500	144	18Del Cyg	2.8600	11000.	77	38576	No
7	GOM_NL__2PRFIN20090717_005422_000000612080_00446_38576_1070.N1	17-JUL-2009 00:54:22	Bright	61.000	19	50Alp Cyg	1.2460	10500.	122	38576	No
8	GOM_NL__2PRFIN20090717_005916_000000402080_00446_38576_1071.N1	17-JUL-2009 00:59:16	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	38576	No
9	GOM_NL__2PRFIN20090717_010641_000000502080_00446_38576_1072.N1	17-JUL-2009 01:06:41	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38576	No
10	GOM_NL__2PRFIN20090717_010838_000000522080_00446_38576_1073.N1	17-JUL-2009 01:08:38	Bright	51.500	68	18Alp Cas	2.2250	4500.0	103	38576	No
11	GOM_NL__2PRFIN20090717_011314_000000422080_00446_38576_1074.N1	17-JUL-2009 01:13:14	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	38576	No
12	GOM_NL__2PRFIN20090717_011436_000000472080_00446_38576_1075.N1	17-JUL-2009 01:14:36	Bright	47.000	35	33Alp Per	1.7950	6250.0	94	38576	No
13	GOM_NL__2PRFIN20090717_011734_000000502080_00446_38576_1076.N1	17-JUL-2009 01:17:34	Bright	50.000	79	26Bet Per	2.3100	13100.	100	38576	No
14	GOM_NL__2PRFIN20090717_012305_000000422080_00446_38576_1077.N1	17-JUL-2009 01:23:05	Twilight	41.500	146	25Eta Tau	2.8730	15200.	83	38576	No
15	GOM_NL__2PRFIN20090717_013110_000000692080_00446_38576_1078.N1	17-JUL-2009 01:31:10	Dark	68.500	94	92Alp Cet	2.5260	3100.0	137	38576	No
16	GOM_NL__2PRFIN20090717_015225_000000632080_00447_38577_1079.N1	17-JUL-2009 01:52:25	Dark	62.500	84	Alp Phe	2.3970	4500.0	125	38577	No
17	GOM_NL__2PRFIN20090717_015807_000000672080_00447_38577_1080.N1	17-JUL-2009 01:58:07	Straylight	67.000	63	Bet Gru	2.1500	2800.0	134	38577	No
18	GOM_NL__2PRFIN20090717_015942_000000572080_00447_38577_1081.N1	17-JUL-2009 01:59:42	Straylight	56.500	31	Alp Gru	1.7340	15200.	113	38577	No
19	GOM_NL__2PRFIN20090717_020255_000000532080_00447_38577_1082.N1	17-JUL-2009 02:02:55	Straylight	53.000	172	Gam Gru	3.0030	13100.	106	38577	No
20	GOM_NL__2PRFIN20090717_022133_000000482080_00447_38577_1083.N1	17-JUL-2009 02:21:33	Bright	48.000	11	53Alp Aql	0.76500	8000.0	96	38577	No
21	GOM_NL__2PRFIN20090717_023242_000000412080_00447_38577_1084.N1	17-JUL-2009 02:32:42	Bright	41.000	144	18Del Cyg	2.8600	11000.	82	38577	No
22	GOM_NL__2PRFIN20090717_023457_000000452080_00447_38577_1085.N1	17-JUL-2009 02:34:57	Bright	45.000	19	50Alp Cyg	1.2460	10500.	90	38577	No
23	GOM_NL__2PRFIN20090717_023952_000000402080_00447_38577_1086.N1	17-JUL-2009 02:39:52	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	38577	No
24	GOM_NL__2PRFIN20090717_024716_000000502080_00447_38577_1087.N1	17-JUL-2009 02:47:16	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38577	No
25	GOM_NL__2PRFIN20090717_024913_000000572080_00447_38577_1088.N1	17-JUL-2009 02:49:13	Bright	56.500	68	18Alp Cas	2.2250	4500.0	113	38577	No
26	GOM_NL__2PRFIN20090717_025350_000000522080_00447_38577_1089.N1	17-JUL-2009 02:53:50	Bright	52.000	160	23Gam Per	2.9300	4700.0	104	38577	No
27	GOM_NL__2PRFIN20090717_025512_000000512080_00447_38577_1090.N1	17-JUL-2009 02:55:12	Bright	51.000	35	33Alp Per	1.7950	6250.0	102	38577	No
28	GOM_NL__2PRFIN20090717_025810_000000442080_00447_38577_1091.N1	17-JUL-2009 02:58:10	Bright	43.500	79	26Bet Per	2.3100	13100.	87	38577	No
29	GOM_NL__2PRFIN20090717_030342_000000412080_00447_38577_1092.N1	17-JUL-2009 03:03:42	Twilight	41.000	146	25Eta Tau	2.8730	15200.	82	38577	No
30	GOM_NL__2PRFIN20090717_031147_000000642080_00447_38577_1093.N1	17-JUL-2009 03:11:47	Dark	64.000	94	92Alp Cet	2.5260	3100.0	128	38577	No
31	GOM_NL__2PRFIN20090717_033302_000000562080_00448_38578_1093.N1	17-JUL-2009 03:33:02	Dark	56.000	84	Alp Phe	2.3970	4500.0	112	38578	No
32	GOM_NL__2PRFIN20090717_033844_000000542080_00448_38578_1094.N1	17-JUL-2009 03:38:44	Straylight	54.000	63	Bet Gru	2.1500	2800.0	108	38578	No
33	GOM_NL__2PRFIN20090717_034018_000000472080_00448_38578_1095.N1	17-JUL-2009 03:40:18	Straylight	46.500	31	Alp Gru	1.7340	15200.	93	38578	No
34	GOM_NL__2PRFIN20090717_034332_000000512080_00448_38578_1096.N1	17-JUL-2009 03:43:32	Straylight	50.500	172	Gam Gru	3.0030	13100.	101	38578	No
35	GOM_NL__2PRFIN20090717_040208_000000492080_00448_38578_1097.N1	17-JUL-2009 04:02:08	Bright	48.500	11	53Alp Aql	0.76500	8000.0	97	38578	No
36	GOM_NL__2PRFIN20090717_041317_000000422080_00448_38578_1098.N1	17-JUL-2009 04:13:17	Bright	41.500	144	18Del Cyg	2.8600	11000.	83	38578	No
37	GOM_NL__2PRFIN20090717_041532_000000452080_00448_38578_1099.N1	17-JUL-2009 04:15:32	Bright	45.000	19	50Alp Cyg	1.2460	10500.	90	38578	No
38	GOM_NL__2PRFIN20090717_042027_000000412080_00448_38578_1100.N1	17-JUL-2009 04:20:27	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	38578	No
39	GOM_NL__2PRFIN20090717_042752_000000502080_00448_38578_1101.N1	17-JUL-2009 04:27:52	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38578	No
40	GOM_NL__2PRFIN20090717_042948_000000522080_00448_38578_1102.N1	17-JUL-2009 04:29:48	Bright	51.500	68	18Alp Cas	2.2250	4500.0	103	38578	No
41	GOM_NL__2PRFIN20090717_043426_000000452080_00448_38578_1103.N1	17-JUL-2009 04:34:26	Bright	45.000	160	23Gam Per	2.9300	4700.0	90	38578	No
42	GOM_NL__2PRFIN20090717_043548_000000452080_00448_38578_1104.N1	17-JUL-2009 04:35:48	Bright	44.500	35	33Alp Per	1.7950	6250.0	89	38578	No

161	GOM_NL__2PRFIN20090717_184901_000000502080_00457_38587_1252.N1	17-JUL-2009 18:49:01	Straylight	50.000	172	Gam Gru	3.0030	13100.	100	38587	No
162	GOM_NL__2PRFIN20090717_190827_000000392080_00457_38587_1253.N1	17-JUL-2009 19:08:27	Bright	39.000	168	17Zet Aql	2.9860	11000.	78	38587	No
163	GOM_NL__2PRFIN20090717_191836_000000432080_00457_38587_1254.N1	17-JUL-2009 19:18:36	Bright	42.500	144	18Del Cyg	2.8600	11000.	85	38587	No
164	GOM_NL__2PRFIN20090717_192048_000000502080_00457_38587_1255.N1	17-JUL-2009 19:20:48	Bright	49.500	19	50Alp Cyg	1.2460	10500.	99	38587	No
165	GOM_NL__2PRFIN20090717_192546_000000452080_00457_38587_1256.N1	17-JUL-2009 19:25:46	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	38587	No
166	GOM_NL__2PRFIN20090717_193309_000000532080_00457_38587_1257.N1	17-JUL-2009 19:33:09	Bright	53.000	74	11Bet Cas	2.2680	6600.0	106	38587	No
167	GOM_NL__2PRFIN20090717_193506_000000482080_00457_38587_1258.N1	17-JUL-2009 19:35:06	Bright	48.000	68	18Alp Cas	2.2250	4500.0	96	38587	No
168	GOM_NL__2PRFIN20090717_193948_000000412080_00457_38587_1259.N1	17-JUL-2009 19:39:48	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	38587	No
169	GOM_NL__2PRFIN20090717_194110_000000432080_00457_38587_1260.N1	17-JUL-2009 19:41:10	Bright	42.500	35	33Alp Per	1.7950	6250.0	85	38587	No
170	GOM_NL__2PRFIN20090717_194409_000000502080_00457_38587_1261.N1	17-JUL-2009 19:44:09	Bright	49.500	79	26Bet Per	2.3100	13100.	99	38587	No
171	GOM_NL__2PRFIN20090717_194706_000000442080_00457_38587_1262.N1	17-JUL-2009 19:47:06	Twilight	44.000	150	44Zet Per	2.8900	28000.	88	38587	No
172	GOM_NL__2PRFIN20090717_194943_000000452080_00457_38587_1263.N1	17-JUL-2009 19:49:43	Twilight	44.500	146	25Eta Tau	2.8730	15200.	89	38587	No
173	GOM_NL__2PRFIN20090717_195754_000000652080_00457_38587_1264.N1	17-JUL-2009 19:57:54	Dark	64.500	94	92Alp Cet	2.5260	3100.0	129	38587	No
174	GOM_NL__2PRFIN20090717_201913_000000632080_00458_38588_1265.N1	17-JUL-2009 20:19:13	Dark	62.500	84	Alp Phe	2.3970	4500.0	125	38588	No
175	GOM_NL__2PRFIN20090717_202452_000000502080_00458_38588_1266.N1	17-JUL-2009 20:24:52	Straylight	50.000	63	Bet Gru	2.1500	2800.0	100	38588	No
176	GOM_NL__2PRFIN20090717_202625_000000452080_00458_38588_1267.N1	17-JUL-2009 20:26:25	Straylight	44.500	31	Alp Gru	1.7340	15200.	89	38588	No
177	GOM_NL__2PRFIN20090717_202938_000000532080_00458_38588_1268.N1	17-JUL-2009 20:29:38	Straylight	53.000	172	Gam Gru	3.0030	13100.	106	38588	No
178	GOM_NL__2PRFIN20090717_204903_000000412080_00458_38588_1269.N1	17-JUL-2009 20:49:03	Bright	40.500	168	17Zet Aql	2.9860	11000.	81	38588	No
179	GOM_NL__2PRFIN20090717_205912_000000402080_00458_38588_1270.N1	17-JUL-2009 20:59:12	Bright	40.000	144	18Del Cyg	2.8600	11000.	80	38588	No
180	GOM_NL__2PRFIN20090717_210123_000000502080_00458_38588_1271.N1	17-JUL-2009 21:01:23	Bright	49.500	19	50Alp Cyg	1.2460	10500.	99	38588	No
181	GOM_NL__2PRFIN20090717_210621_000000442080_00458_38588_1272.N1	17-JUL-2009 21:06:21	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	38588	No
182	GOM_NL__2PRFIN20090717_211344_000000742080_00458_38588_1273.N1	17-JUL-2009 21:13:44	Bright	74.000	74	11Bet Cas	2.2680	6600.0	148	38588	No
183	GOM_NL__2PRFIN20090717_211541_000000462080_00458_38588_1274.N1	17-JUL-2009 21:15:41	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	38588	No
184	GOM_NL__2PRFIN20090717_212023_000000422080_00458_38588_1275.N1	17-JUL-2009 21:20:23	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	38588	No
185	GOM_NL__2PRFIN20090717_212146_000000612080_00458_38588_1276.N1	17-JUL-2009 21:21:46	Bright	61.000	35	33Alp Per	1.7950	6250.0	122	38588	No
186	GOM_NL__2PRFIN20090717_212445_000000462080_00458_38588_1277.N1	17-JUL-2009 21:24:45	Bright	45.500	79	26Bet Per	2.3100	13100.	91	38588	No
187	GOM_NL__2PRFIN20090717_212742_000000462080_00458_38588_1278.N1	17-JUL-2009 21:27:42	Twilight	45.500	150	44Zet Per	2.8900	28000.	91	38588	No
188	GOM_NL__2PRFIN20090717_213020_000000452080_00458_38588_1279.N1	17-JUL-2009 21:30:20	Twilight	45.000	146	25Eta Tau	2.8730	15200.	90	38588	No
189	GOM_NL__2PRFIN20090717_213831_000000612080_00458_38588_1280.N1	17-JUL-2009 21:38:31	Dark	60.500	94	92Alp Cet	2.5260	3100.0	121	38588	No
190	GOM_NL__2PRFIN20090717_215951_000000572080_00459_38589_1279.N1	17-JUL-2009 21:59:51	Dark	56.500	84	Alp Phe	2.3970	4500.0	113	38589	No
191	GOM_NL__2PRFIN20090717_220529_000000622080_00459_38589_1280.N1	17-JUL-2009 22:05:29	Straylight	61.500	63	Bet Gru	2.1500	2800.0	123	38589	No
192	GOM_NL__2PRFIN20090717_220701_000000502080_00459_38589_1281.N1	17-JUL-2009 22:07:01	Straylight	49.500	31	Alp Gru	1.7340	15200.	99	38589	No
193	GOM_NL__2PRFIN20090717_221015_000000502080_00459_38589_1282.N1	17-JUL-2009 22:10:15	Straylight	50.000	172	Gam Gru	3.0030	13100.	100	38589	No
194	GOM_NL__2PRFIN20090717_222938_000000382080_00459_38589_1283.N1	17-JUL-2009 22:29:38	Bright	38.000	168	17Zet Aql	2.9860	11000.	76	38589	No
195	GOM_NL__2PRFIN20090717_223947_000000412080_00459_38589_1284.N1	17-JUL-2009 22:39:47	Bright	41.000	144	18Del Cyg	2.8600	11000.	82	38589	No
196	GOM_NL__2PRFIN20090717_224158_000000502080_00459_38589_1285.N1	17-JUL-2009 22:41:58	Bright	50.000	19	50Alp Cyg	1.2460	10500.	100	38589	No
197	GOM_NL__2PRFIN20090717_224656_000000442080_00459_38589_1286.N1	17-JUL-2009 22:46:56	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	38589	No
198	GOM_NL__2PRFIN20090717_225419_000000502080_00459_38589_1287.N1	17-JUL-2009 22:54:19	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38589	No
199	GOM_NL__2PRFIN20090717_225616_000000462080_00459_38589_1288.N1	17-JUL-2009 22:56:16	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	38589	No
200	GOM_NL__2PRFIN20090717_230059_000000462080_00459_38589_1289.N1	17-JUL-2009 23:00:59	Bright	45.500	160	23Gam Per	2.9300	4700.0	91	38589	No
201	GOM_NL__2PRFIN20090717_230222_000000612080_00459_38589_1290.N1	17-JUL-2009 23:02:22	Bright	61.000	35	33Alp Per	1.7950	6250.0	122	38589	No
202	GOM_NL__2PRFIN20090717_230520_000000462080_00459_38589_1291.N1	17-JUL-2009 23:05:20	Bright	45.500	79	26Bet Per	2.3100	13100.	91	38589	No
203	GOM_NL__2PRFIN20090717_230818_000000402080_00459_38589_1292.N1	17-JUL-2009 23:08:18	Twilight	40.000	150	44Zet Per	2.8900	28000.	80	38589	No
204	GOM_NL__2PRFIN20090717_231056_000000462080_00459_38589_1293.N1	17-JUL-2009 23:10:56	Twilight	46.000	146	25Eta Tau	2.8730	15200.	92	38589	No
205	GOM_NL__2PRFIN20090717_231908_000000632080_00459_38589_1294.N1	17-JUL-2009 23:19:08	Dark	62.500	94	92Alp Cet	2.5260	3100.0	125	38589	No
206	GOM_NL__2PRFIN20090717_234027_000000542080_00460_38590_1296.N1	17-JUL-2009 23:40:27	Dark	53.500	84	Alp Phe	2.3970	4500.0	107	38590	No
207	GOM_NL__2PRFIN20090717_234605_000000562080_00460_38590_1297.N1	17-JUL-2009 23:46:05	Straylight	56.000	63	Bet Gru	2.1500	2800.0	112	38590	No
208	GOM_NL__2PRFIN20090717_234738_000000522080_00460_38590_1298.N1	17-JUL-2009 23:47:38	Straylight	51.500	31	Alp Gru	1.7340	15200.	103	38590	No
209	GOM_NL__2PRFIN20090717_235051_000000512080_00460_38590_1299.N1	17-JUL-2009 23:50:51	Straylight	51.000	172	Gam Gru	3.0030	13100.	102	38590	No

3. Quality information per product

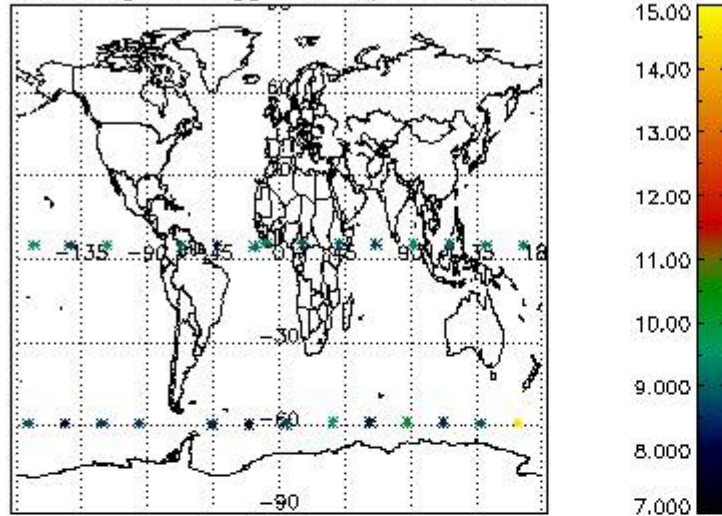
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

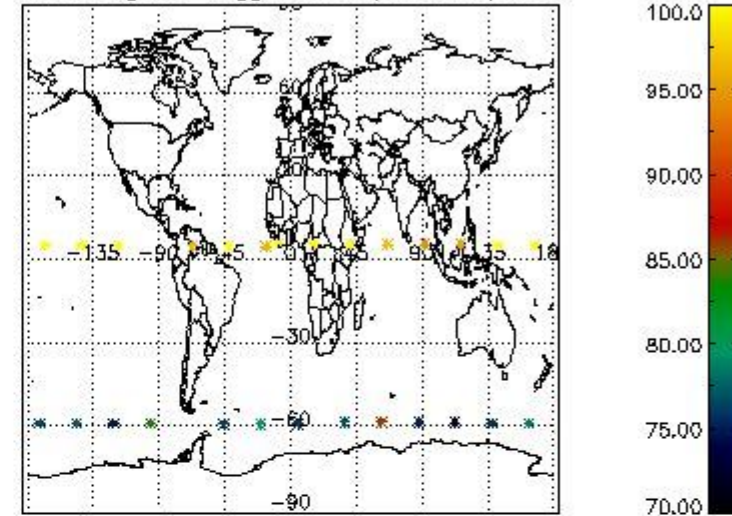


3.2 Plot quality information per product (world map)

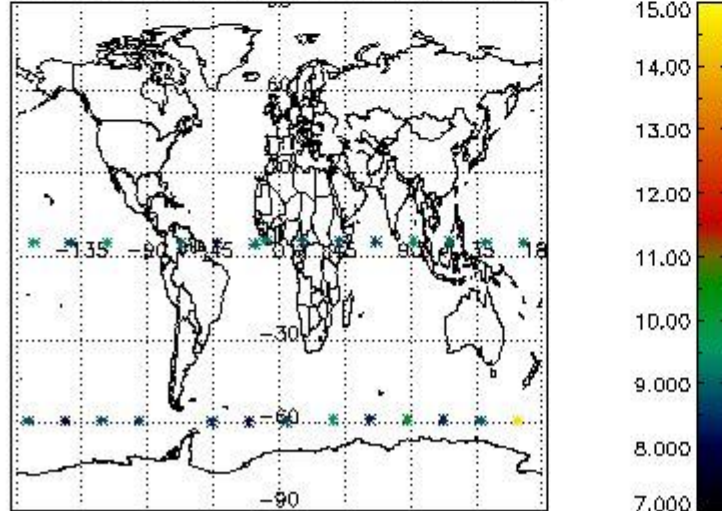
Percentage of flagged data per O3 profile



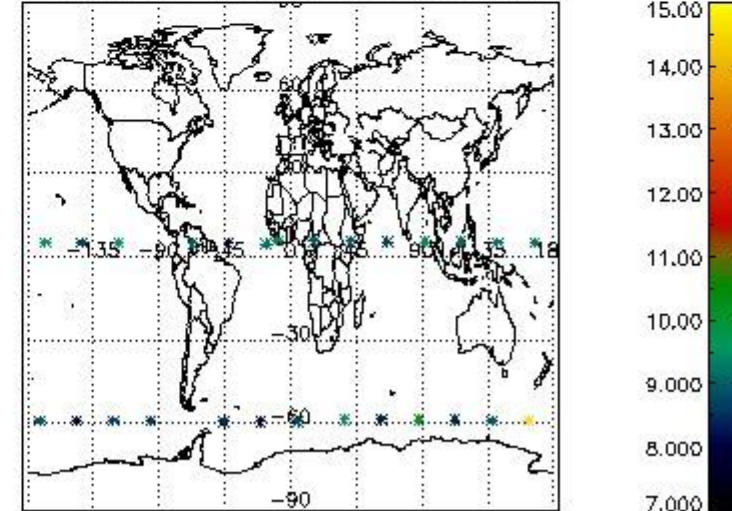
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

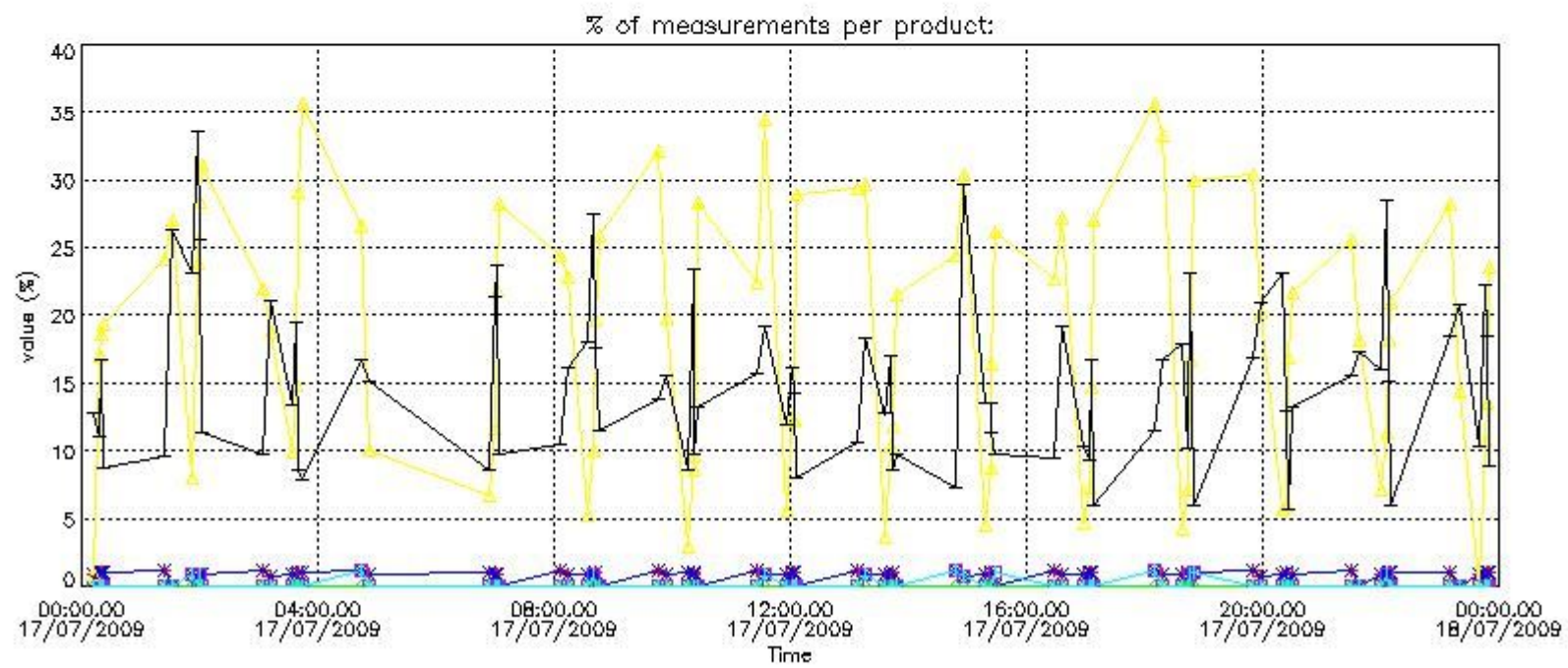


4. Level 1 quality information per product

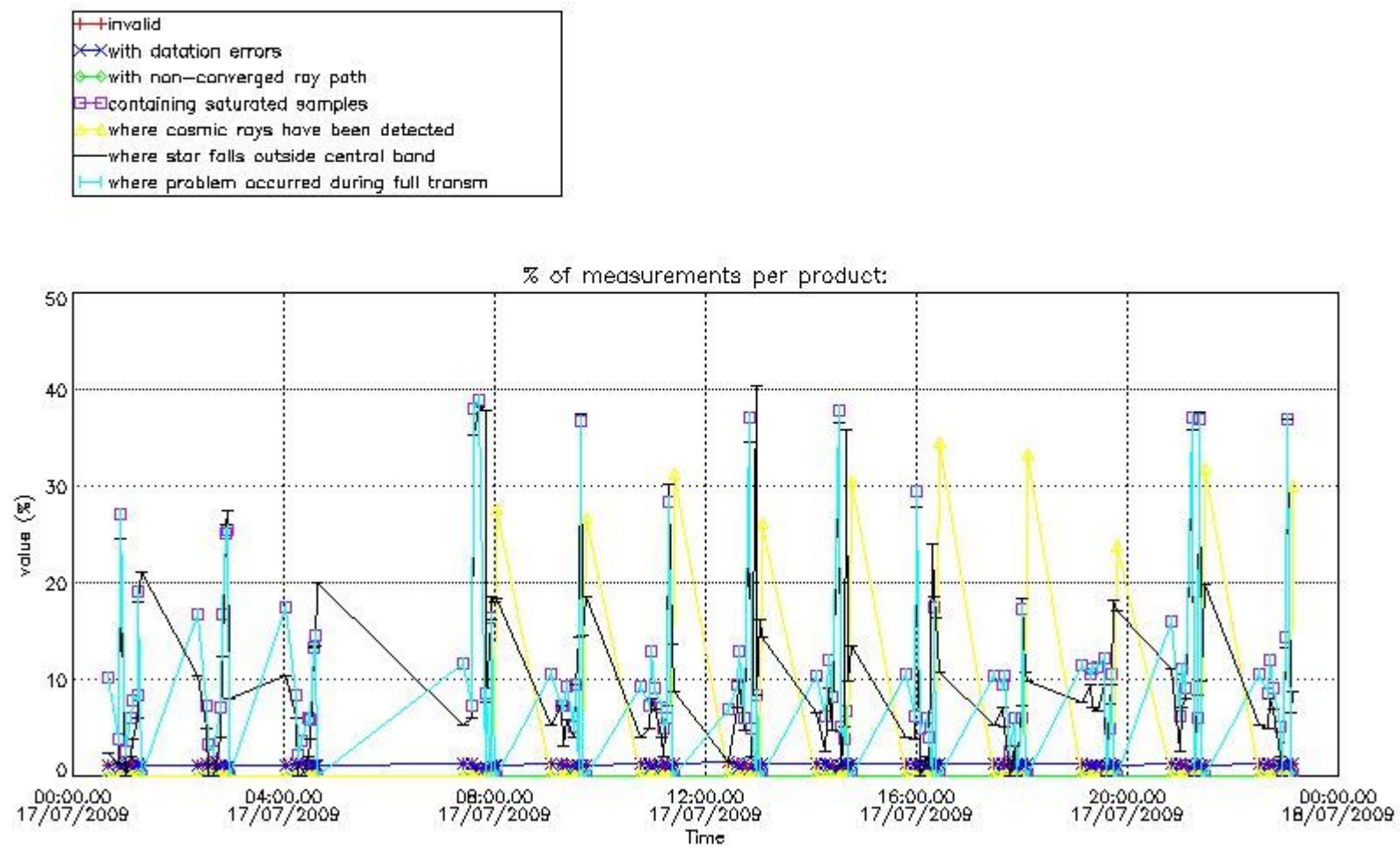
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



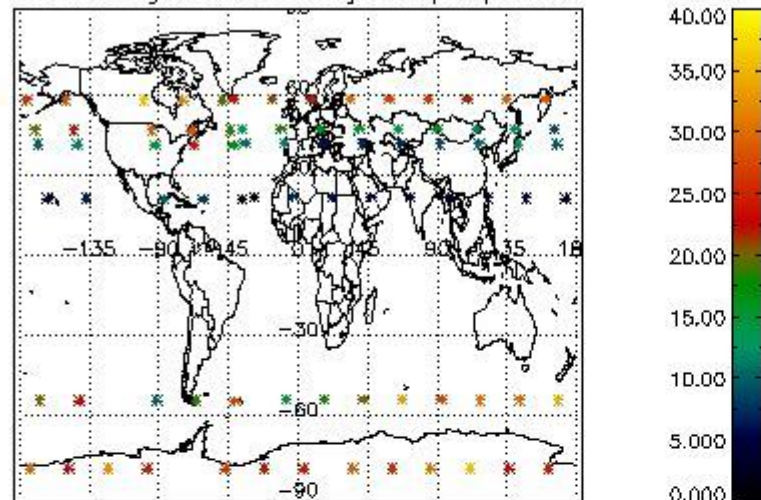
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes



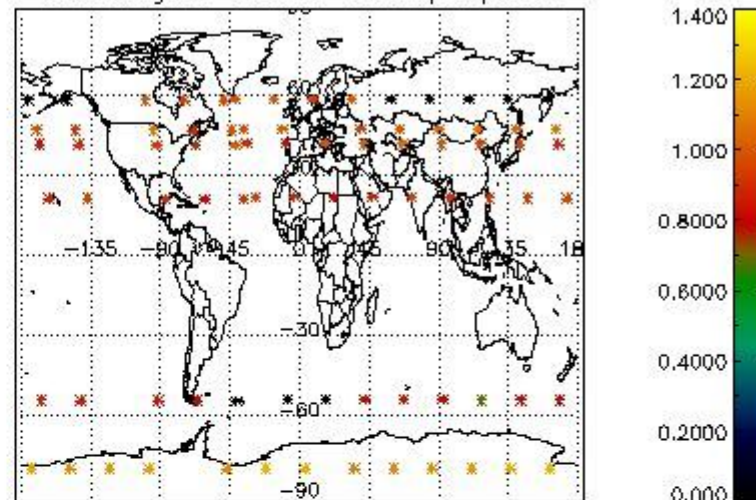
4.2 Plot quality information per product coming from level 1b processing (world map)

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

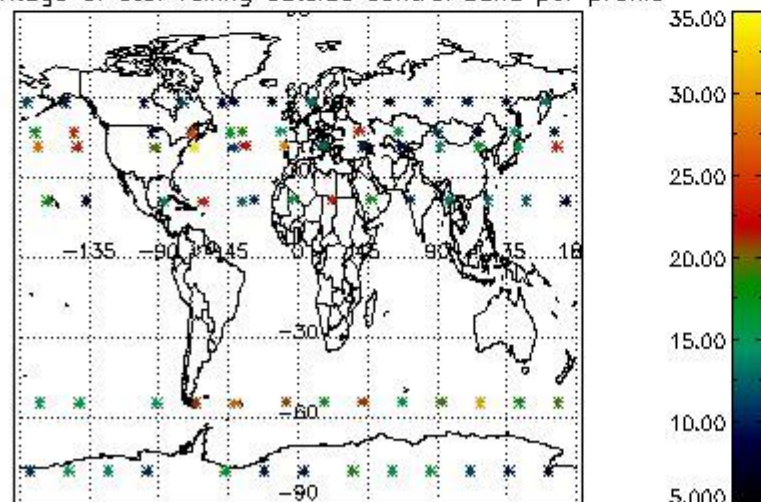
Percentage of cosmic ray hits per profile



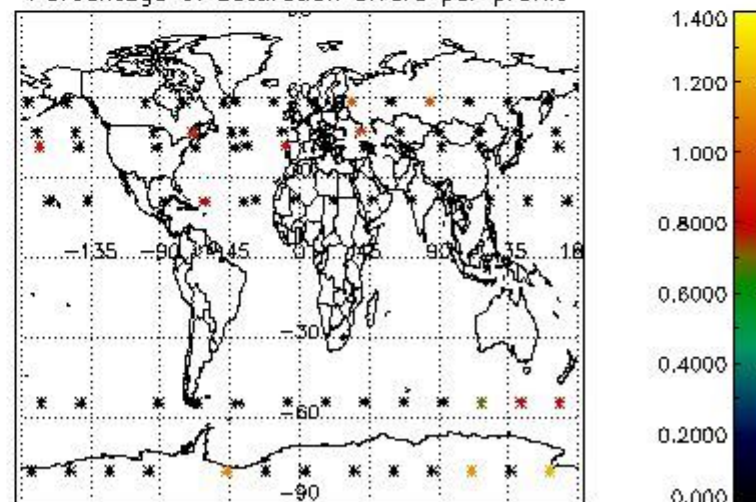
Percentage of datation errors per profile



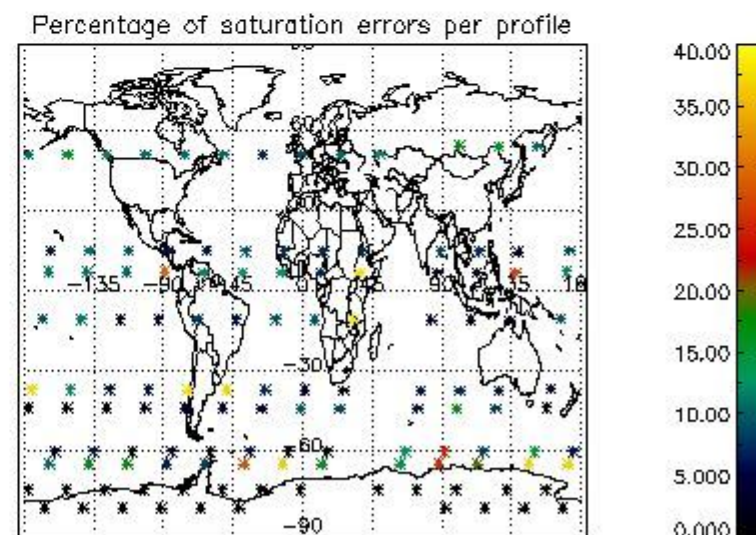
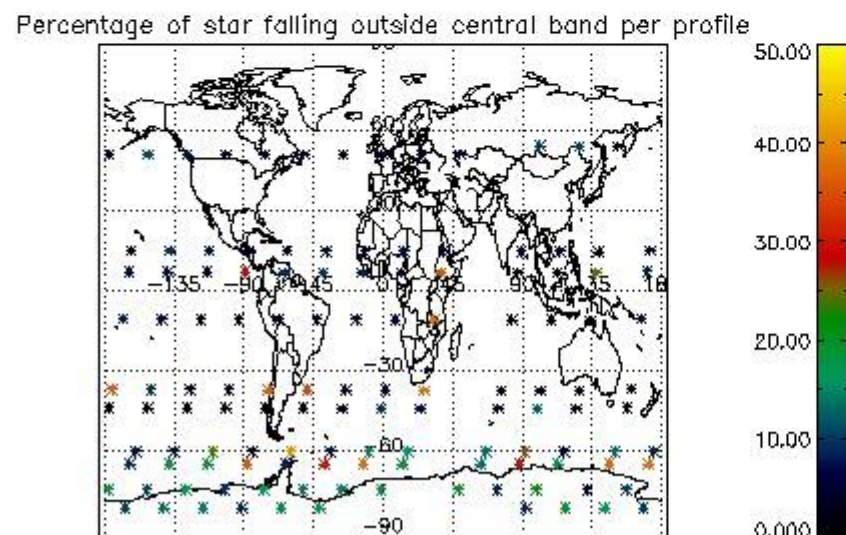
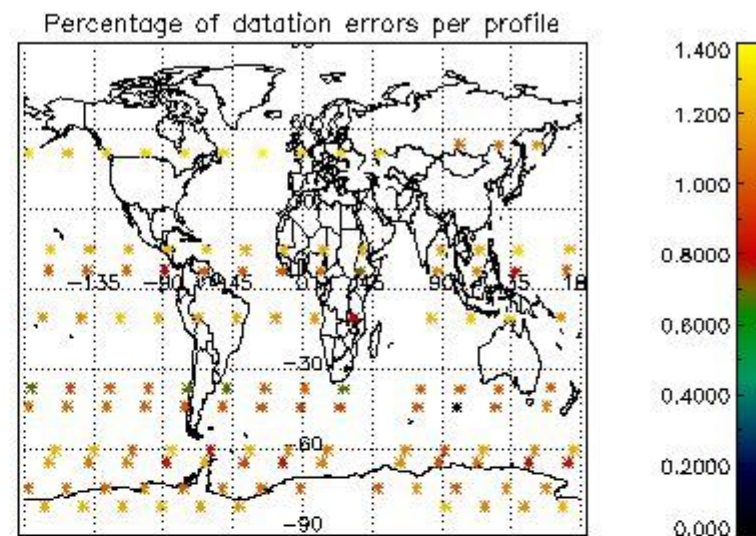
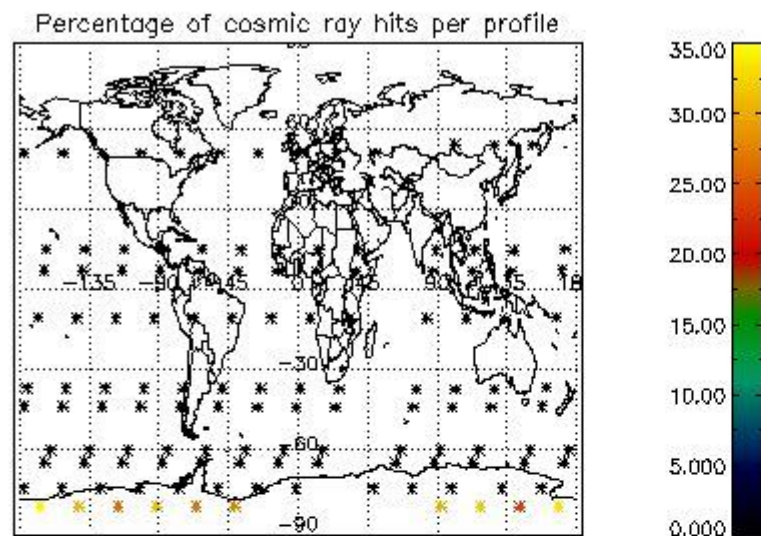
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes



5. Trace gas profiles

5.1 Ozone statistics based on quality of products

The final quality of the products can be "measured" using the STD (Standard Deviation) attached to every point profile. This information is written to the parameter GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/o3_std of the level 2 products. The table below shows the statistics for given STD ranges.

The statistics are given with respect to the overall valid production:

- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

The 'Criteria' is applied to valid points of dark limb products:

- Products in dark limb illumination condition: GOM_NL__2P/NL_SUMMARY_QUALITY/obs_ill_cond=0
- Products without fatal errors: GOM_NL__2P/MPH/PRODUCT_ERR=0
- Valid point profile: GOM_NL__2P/NL_LOCAL_SPECIES_DENSITY/pcd(0)=0

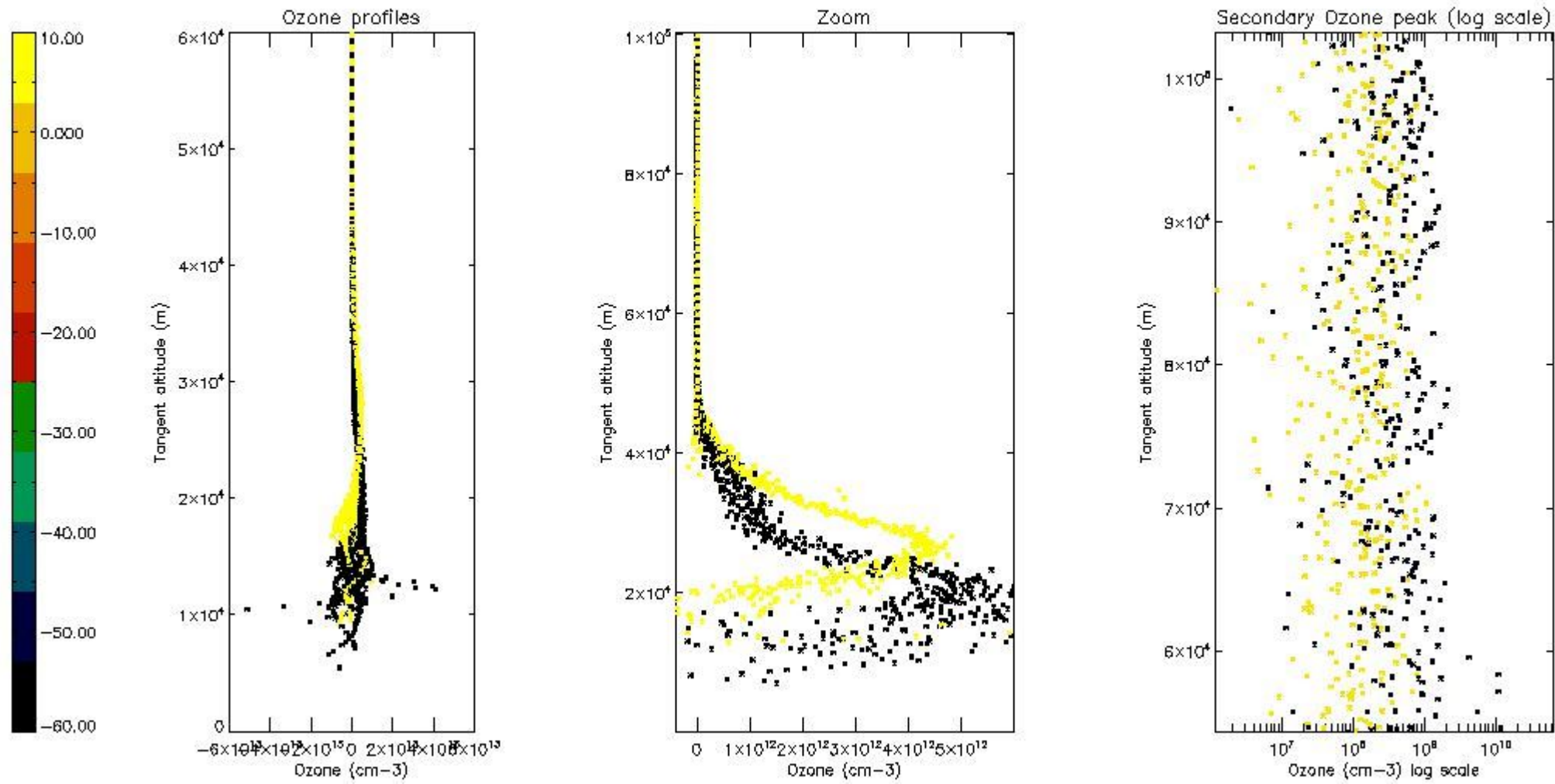
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	16
STD < 20	4

STD < 10	2
STD < 5	0

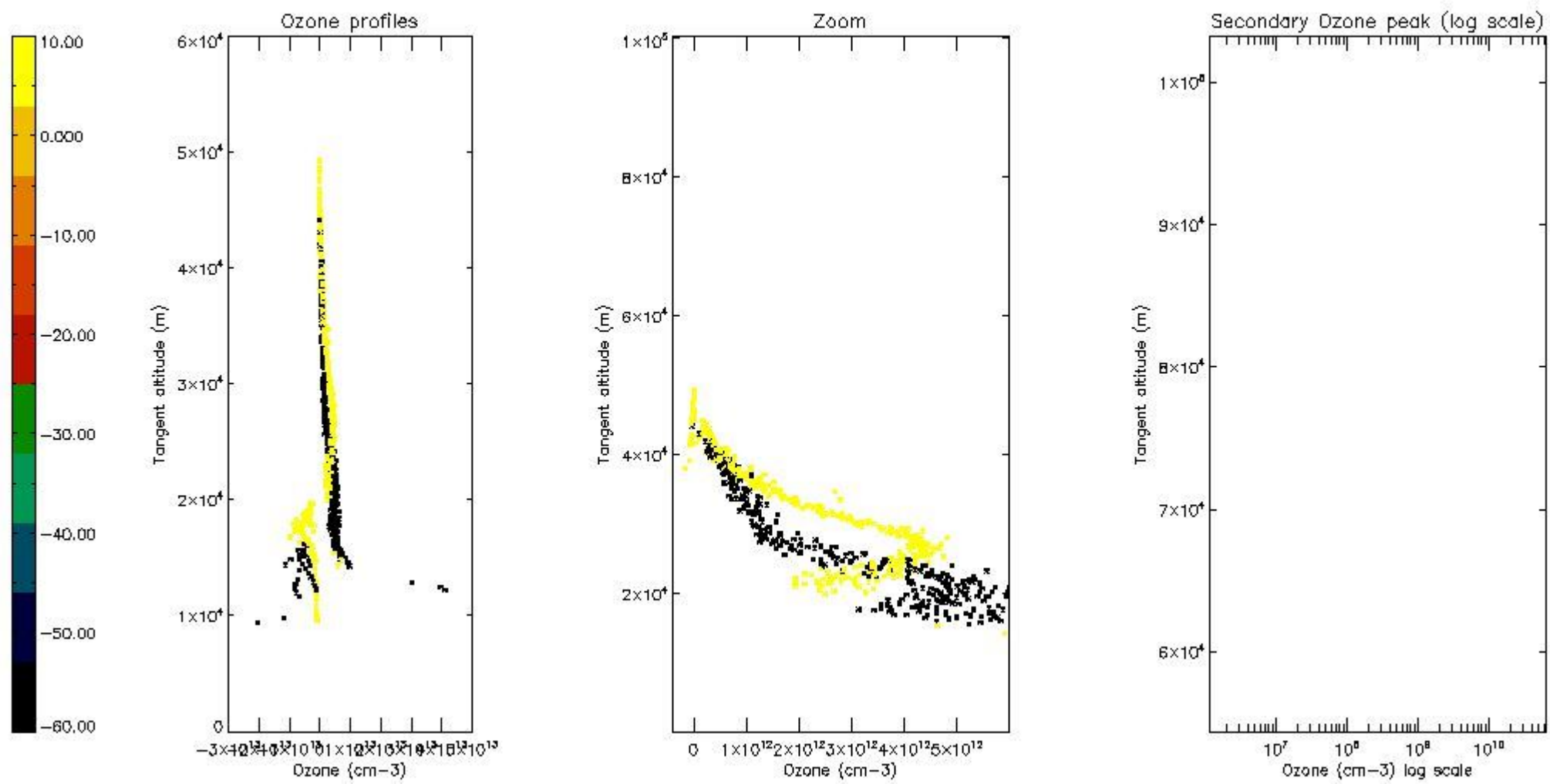
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



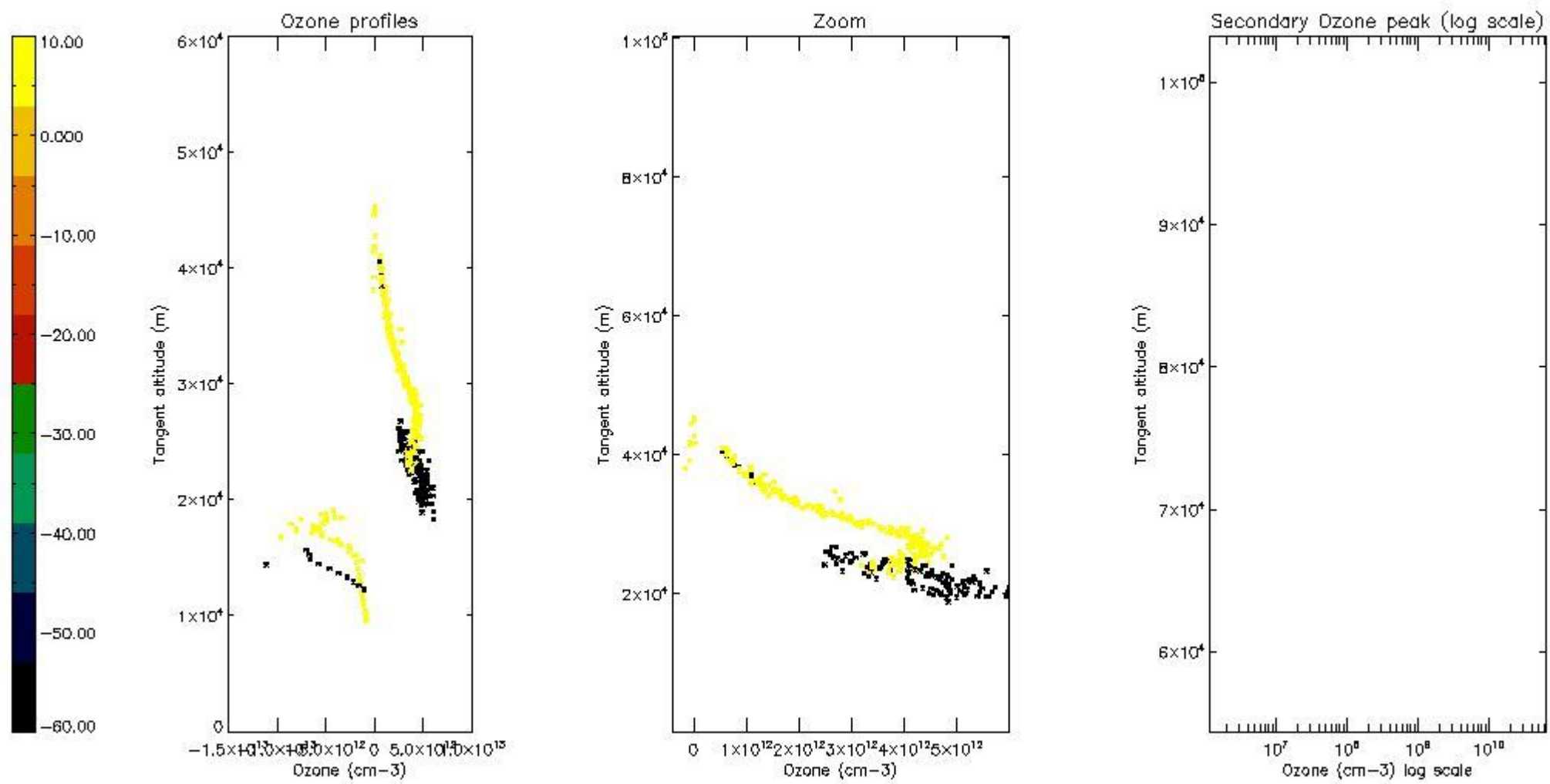
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



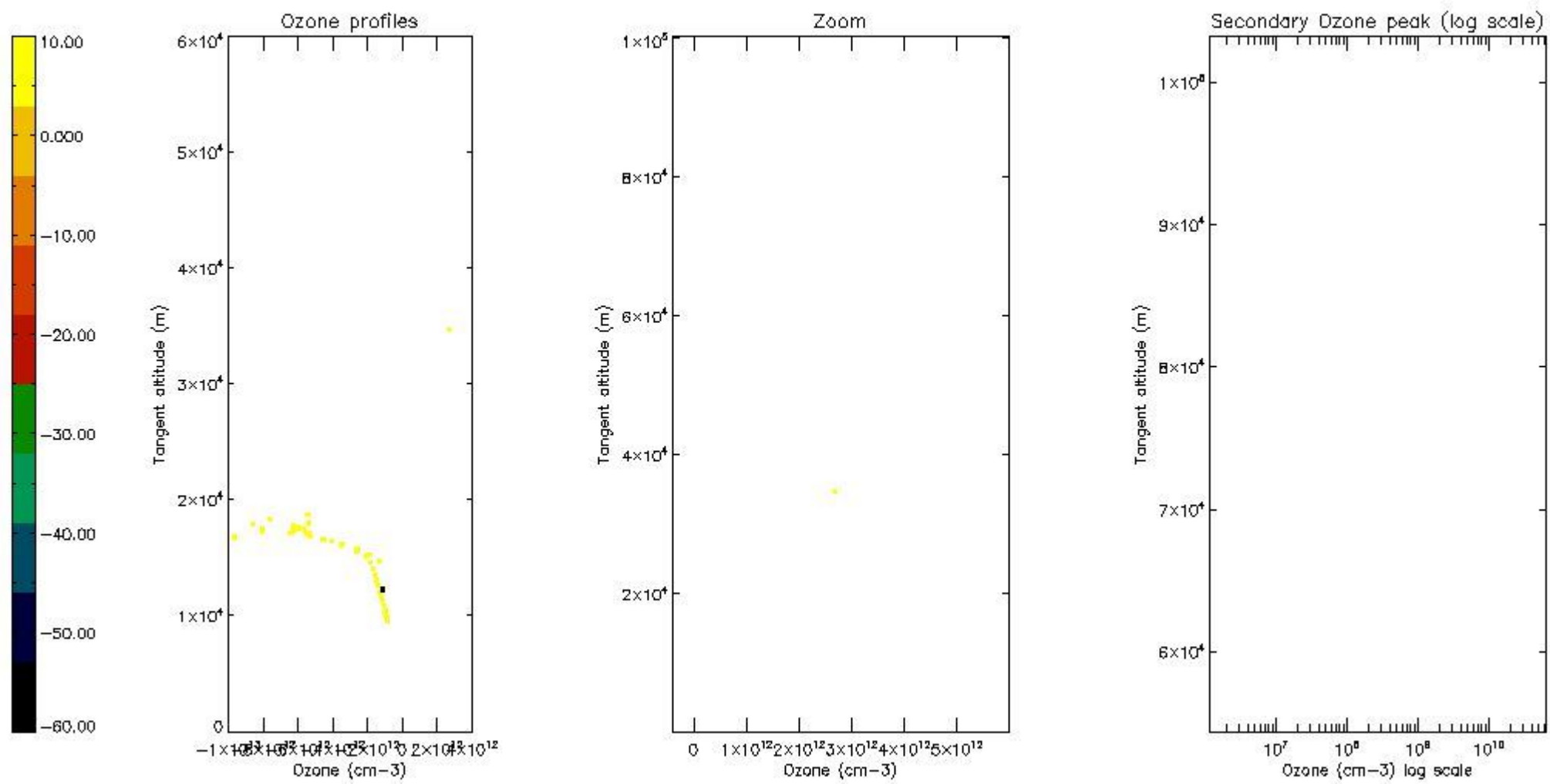
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



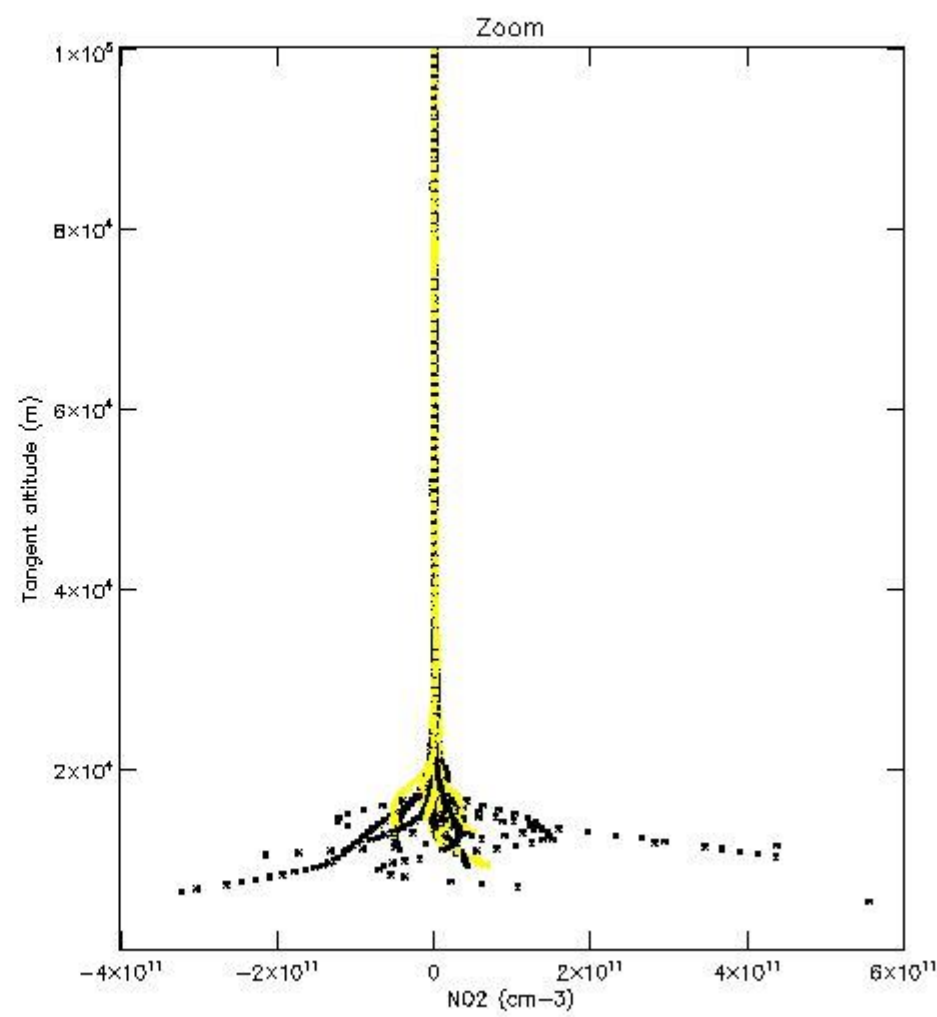
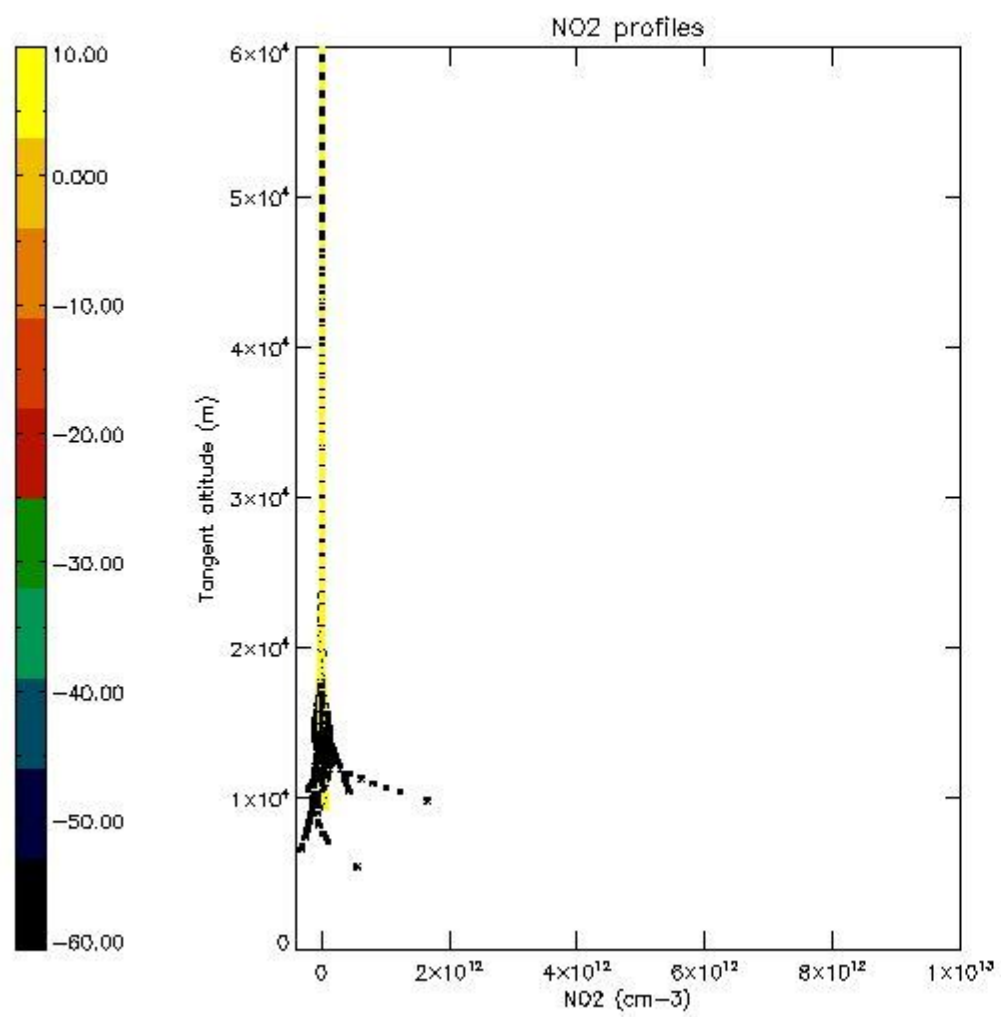
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



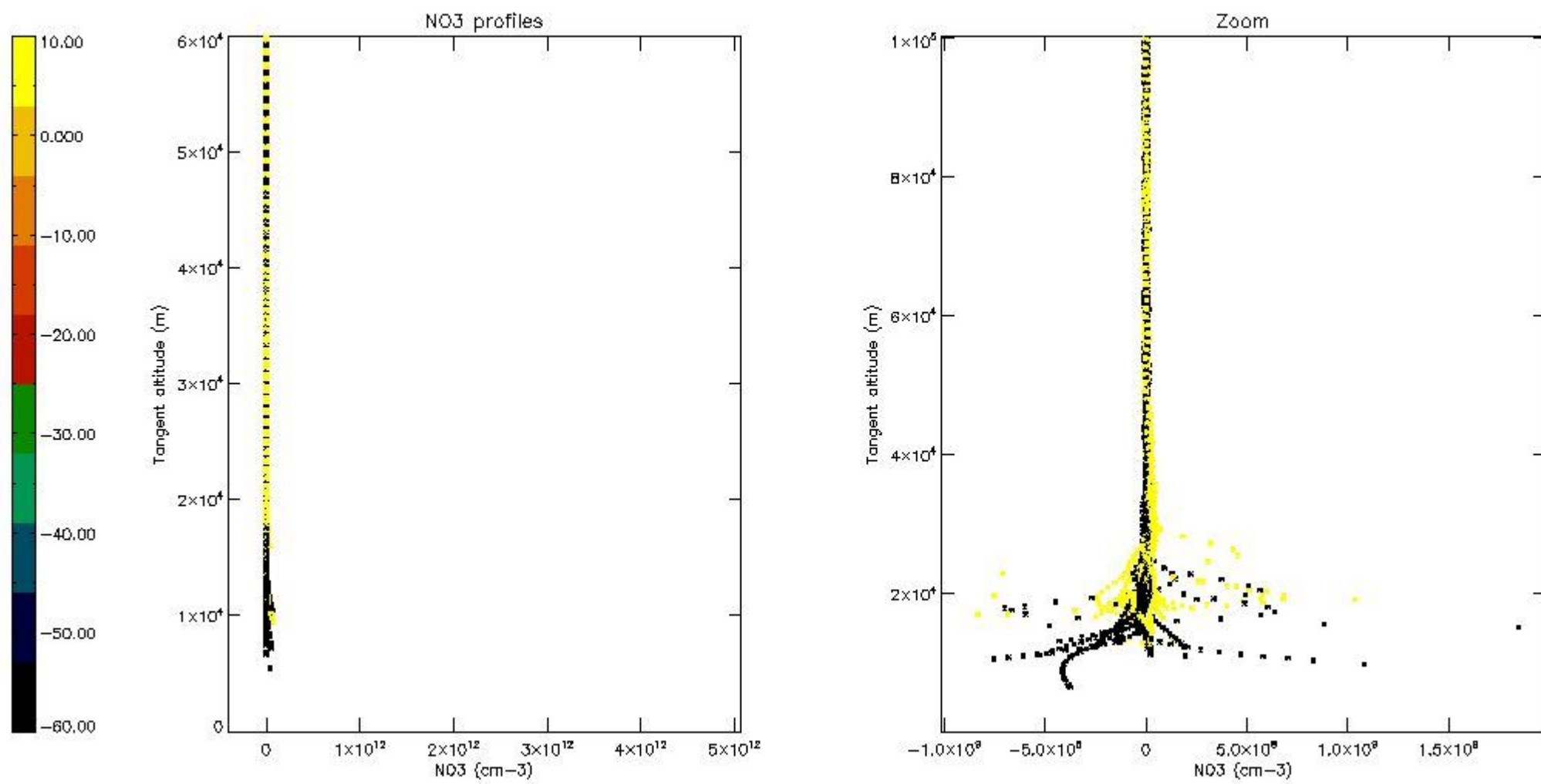
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



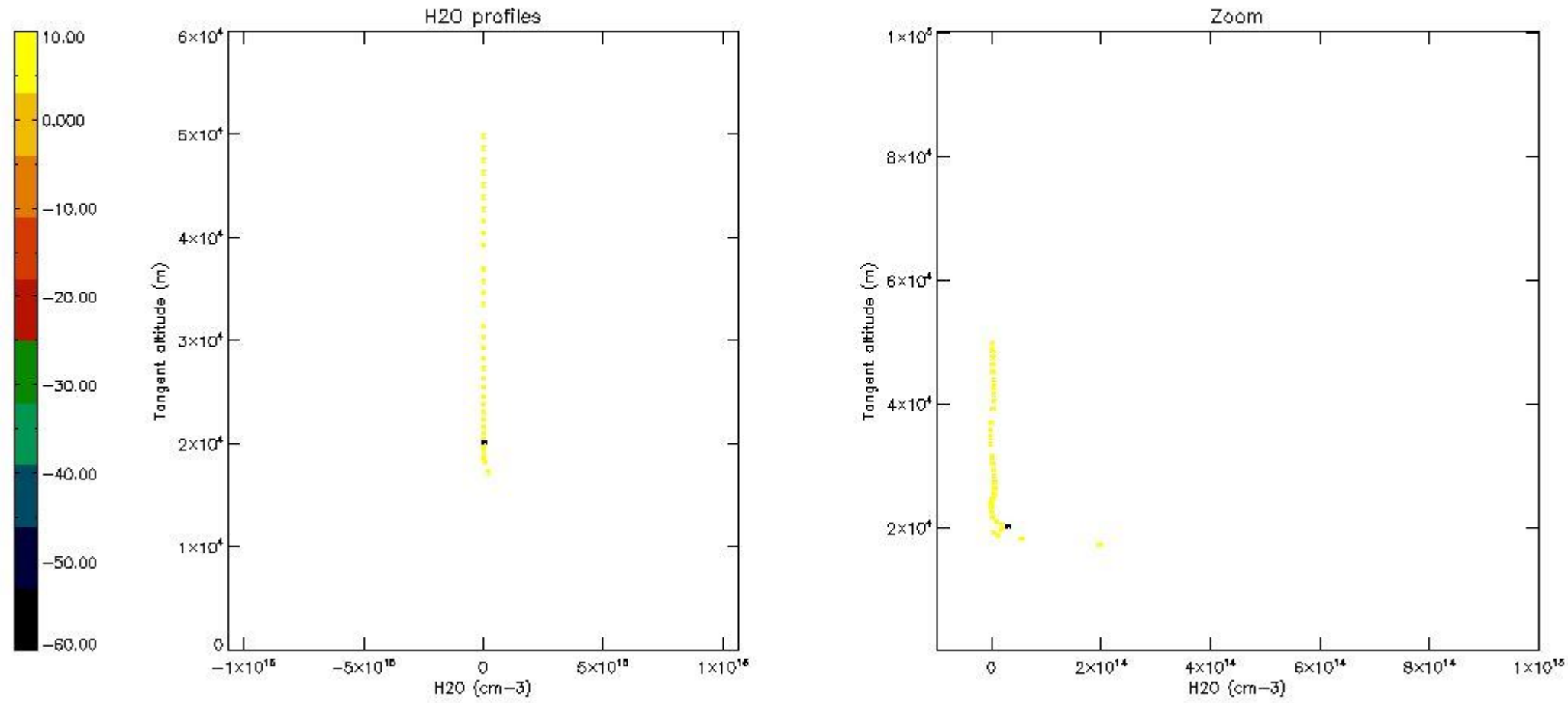
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

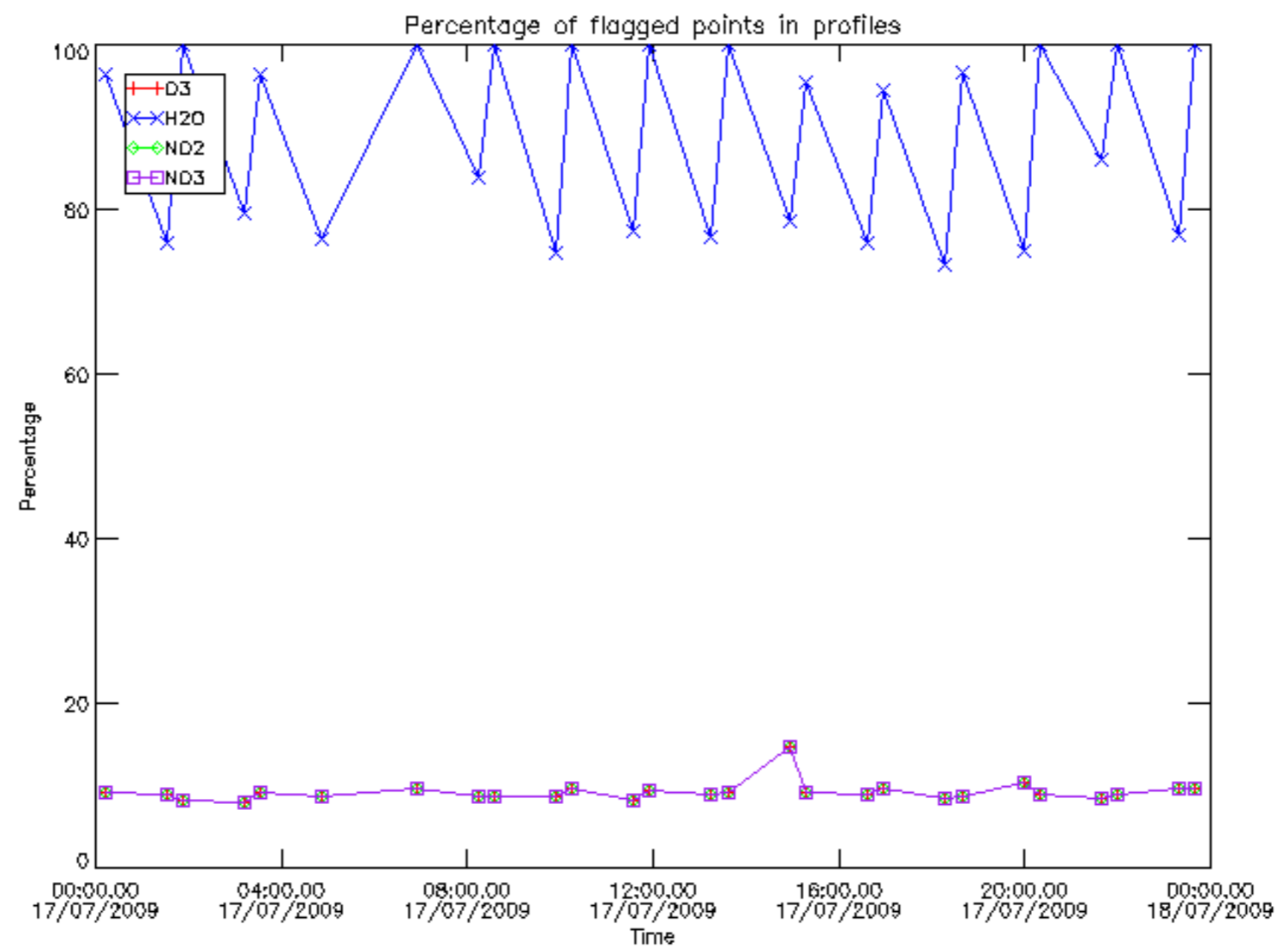
The colorbar represents the latitude.



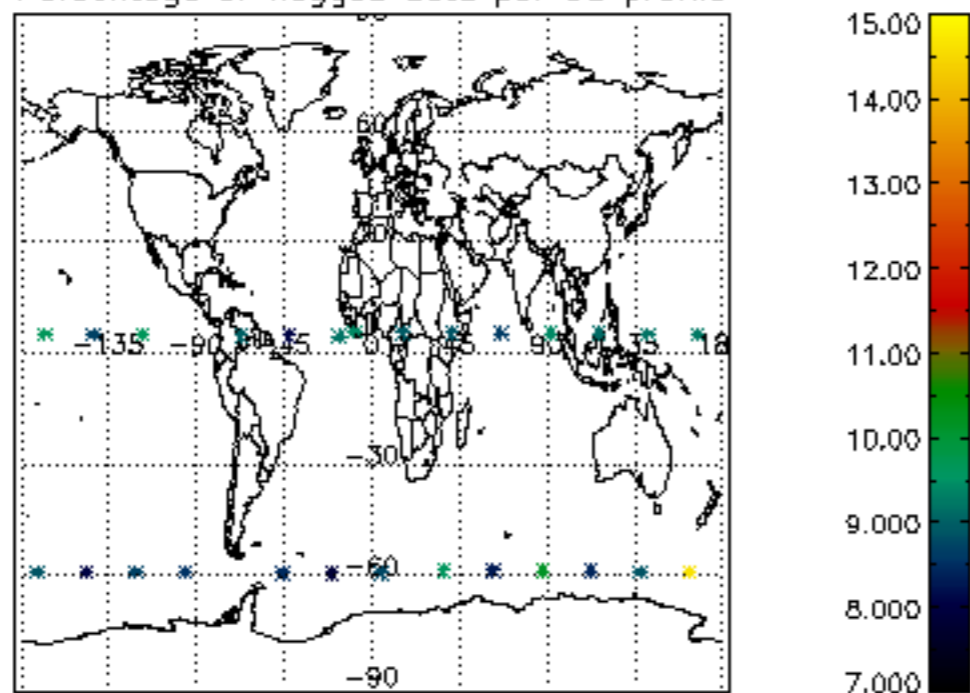
6. Auxiliary Data Files used for the production reported in section 2

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.

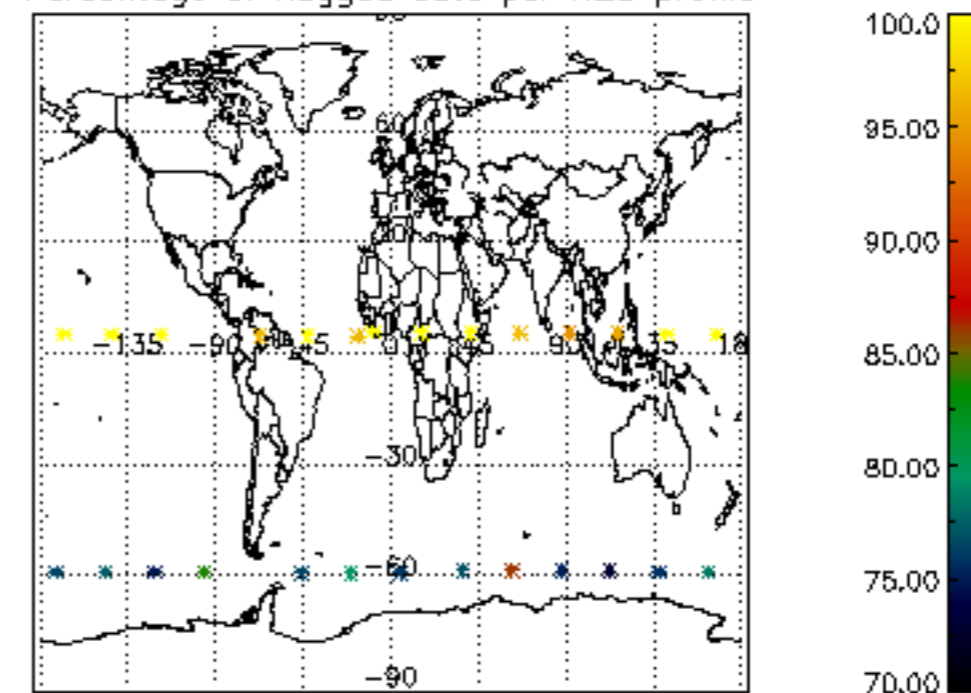
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	17-JUL-2009 00:11:48
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	17-JUL-2009 00:11:48
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	17-JUL-2009 00:11:48



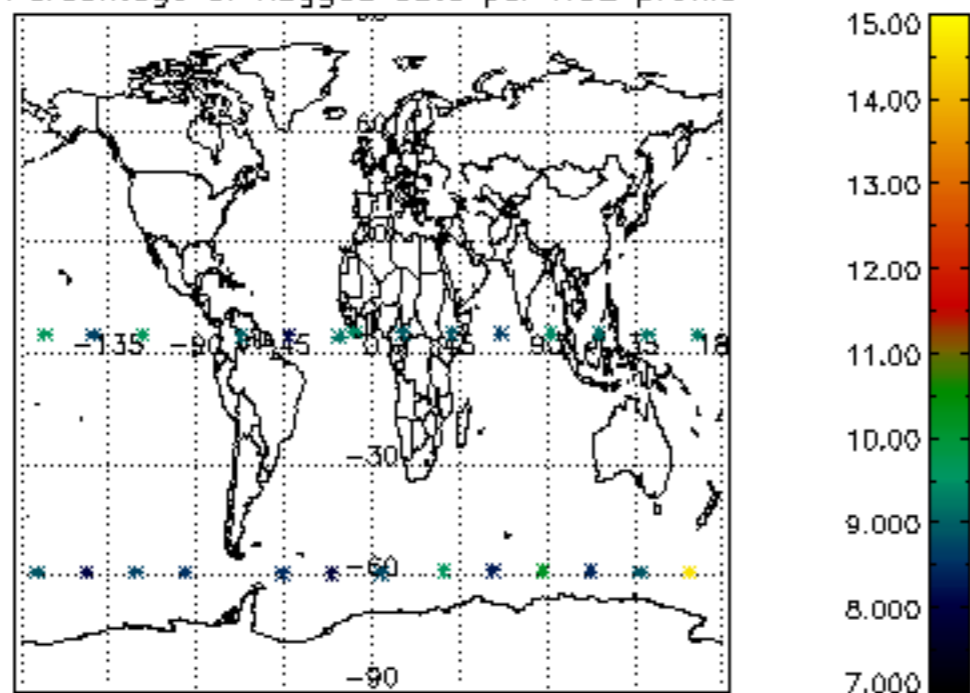
Percentage of flagged data per D3 profile



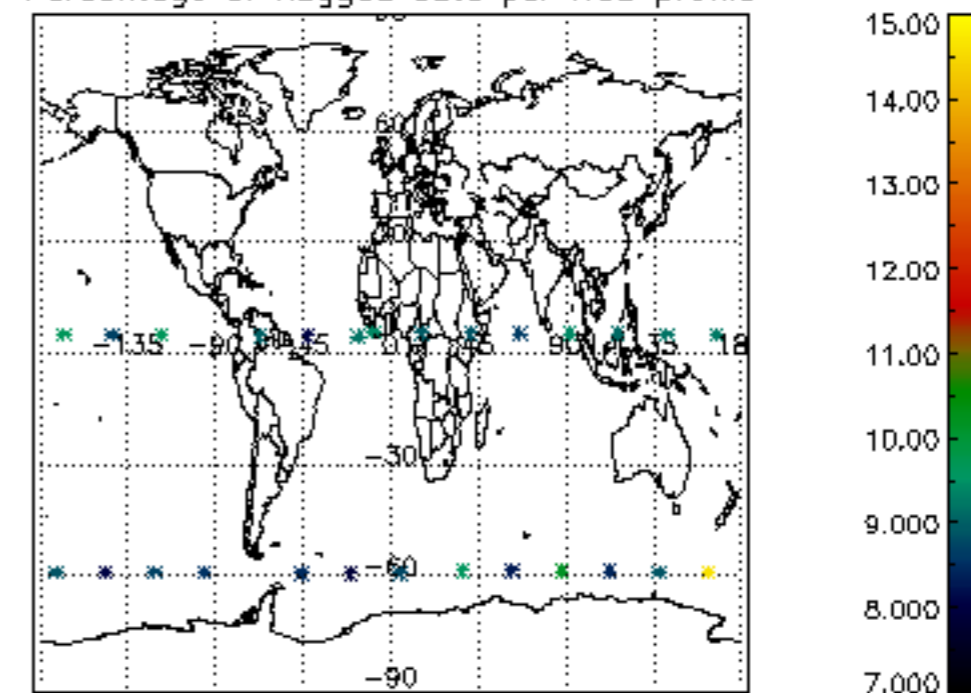
Percentage of flagged data per H2O profile

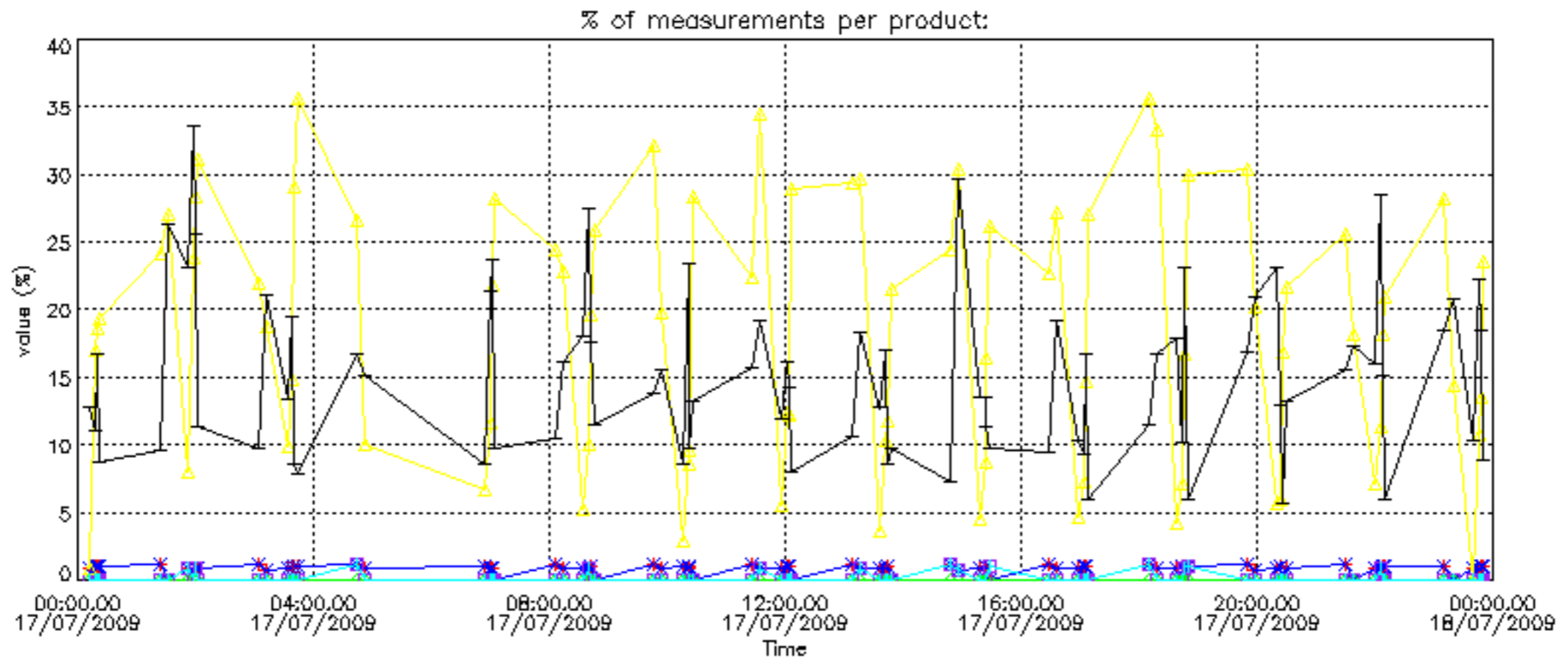


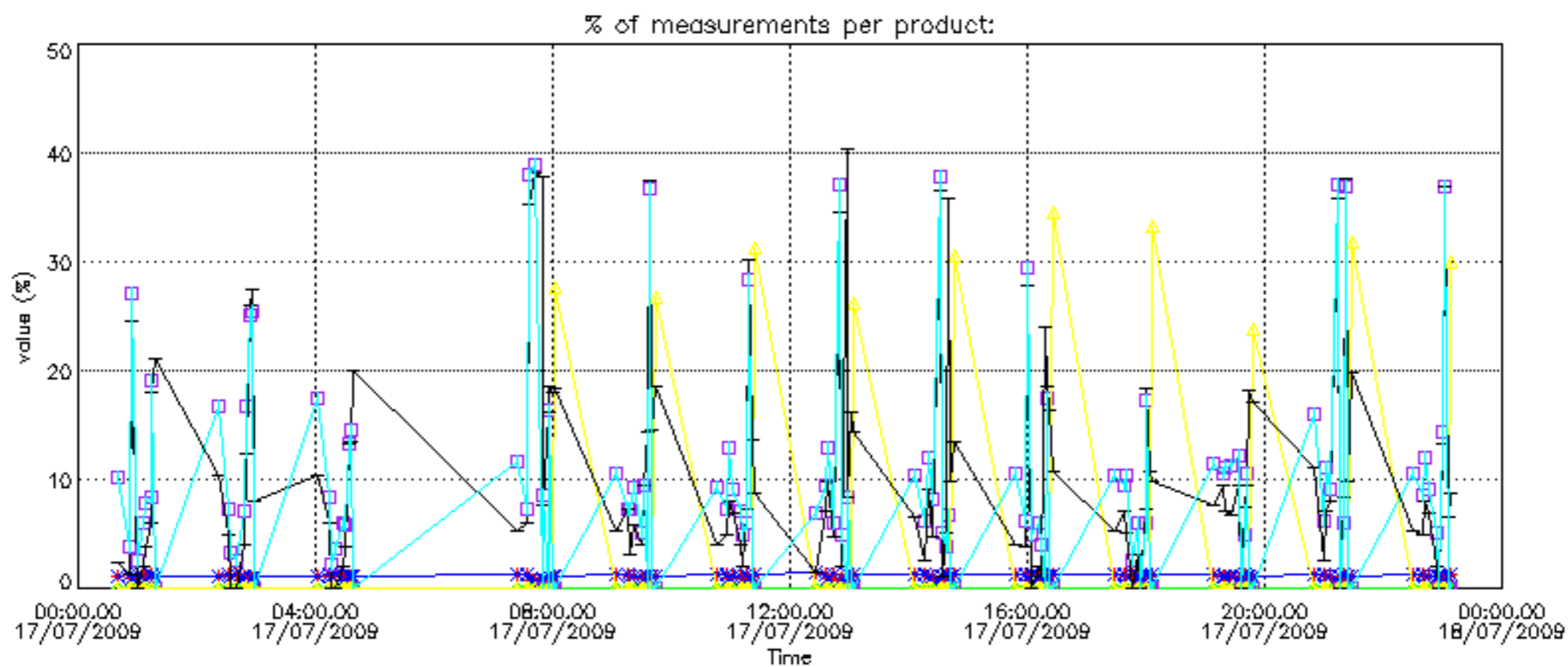
Percentage of flagged data per NO2 profile



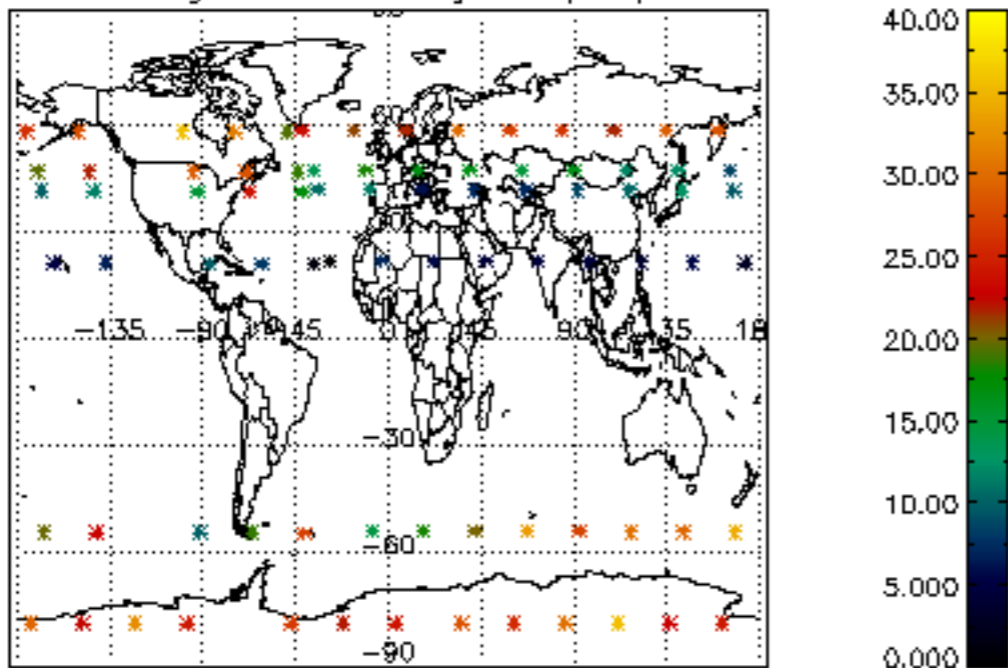
Percentage of flagged data per NO3 profile



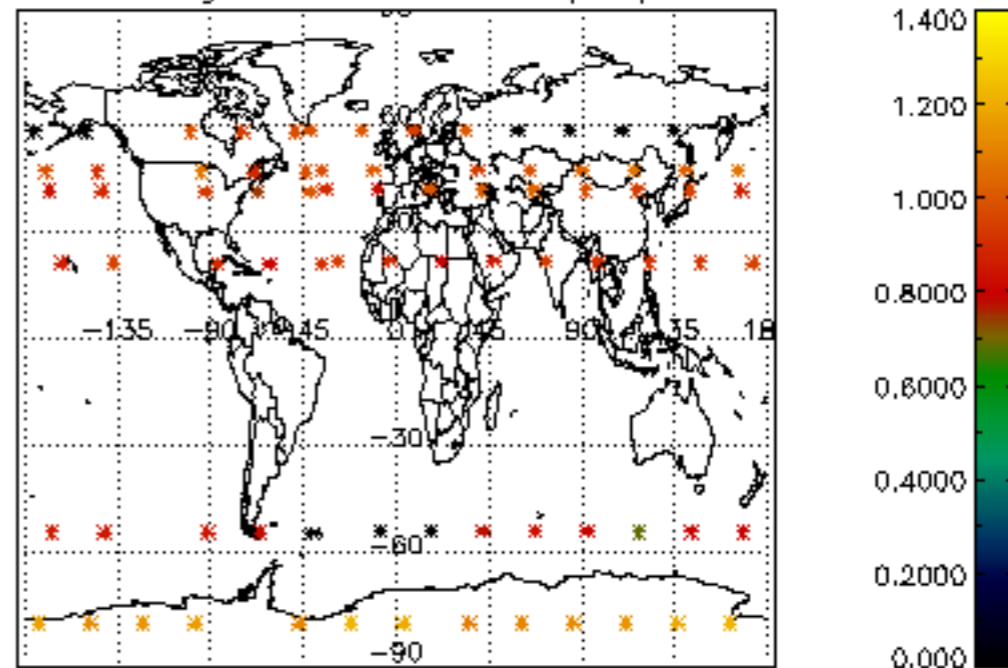




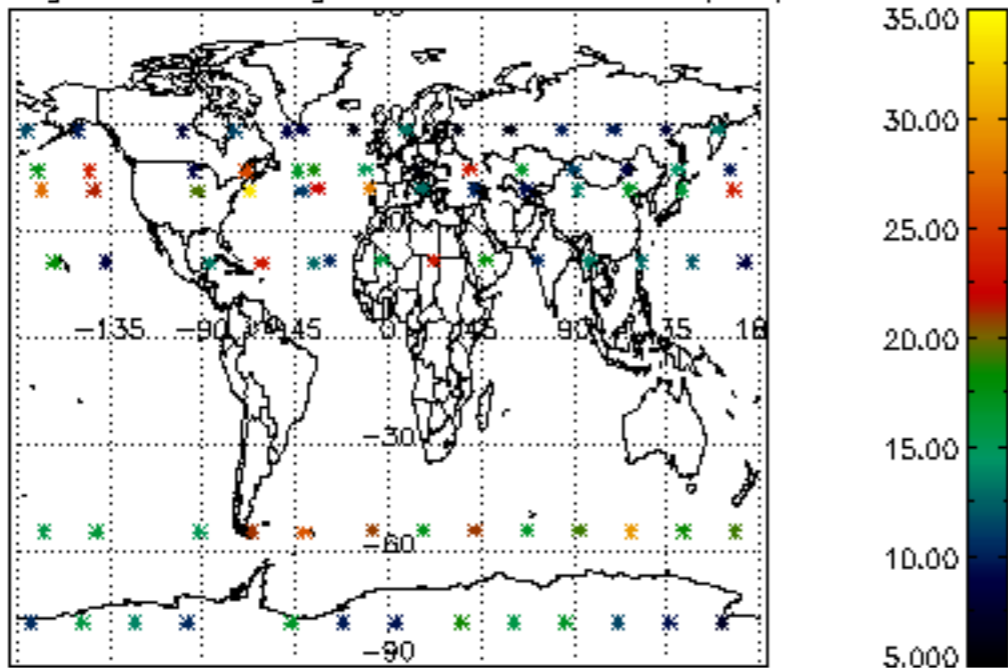
Percentage of cosmic ray hits per profile



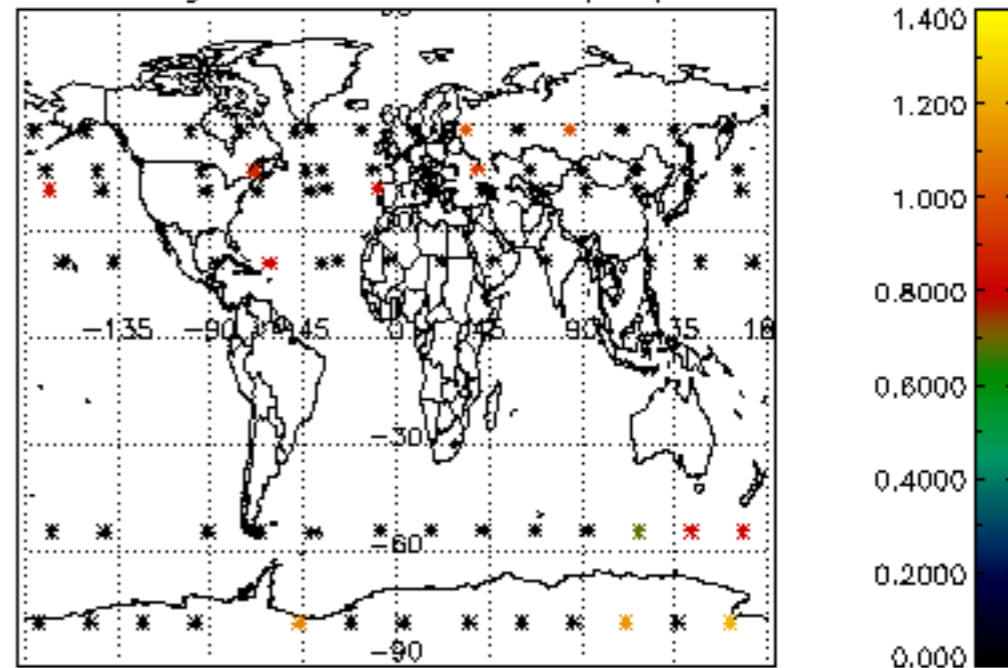
Percentage of datation errors per profile



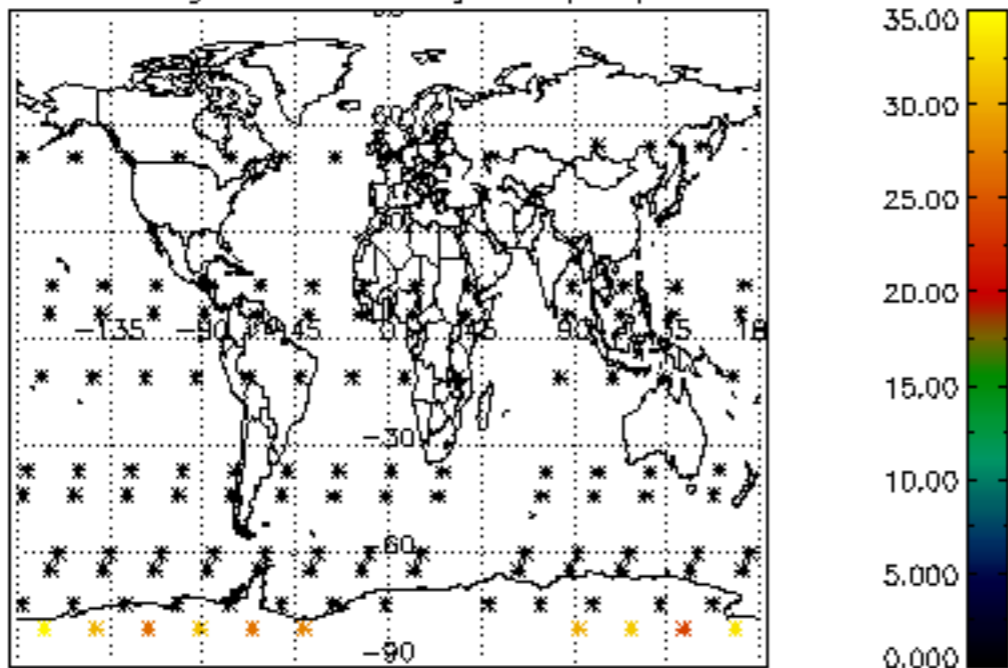
Percentage of star falling outside central band per profile



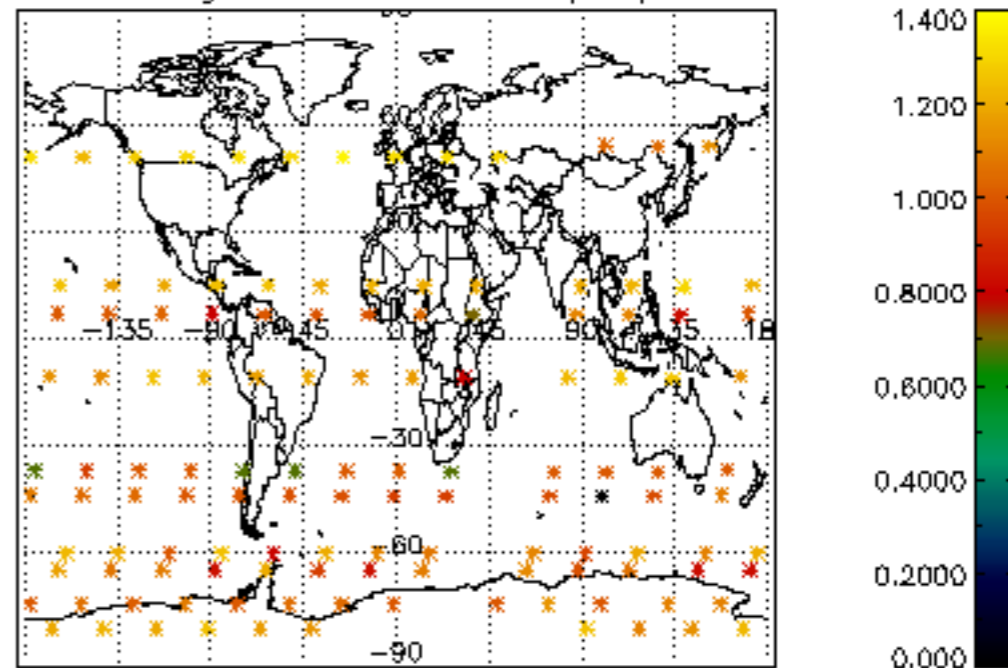
Percentage of saturation errors per profile



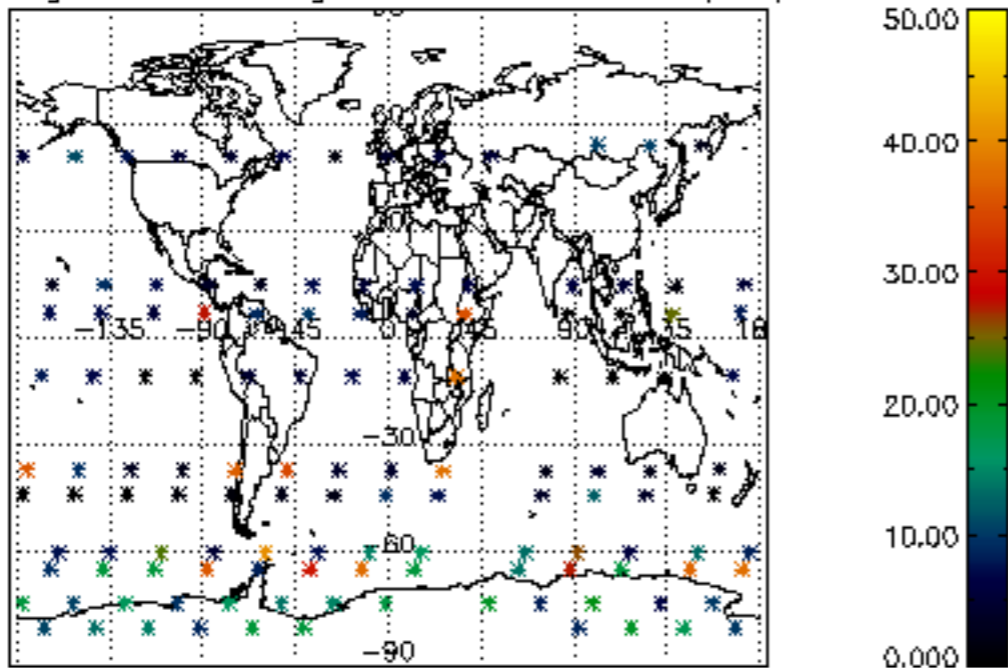
Percentage of cosmic ray hits per profile



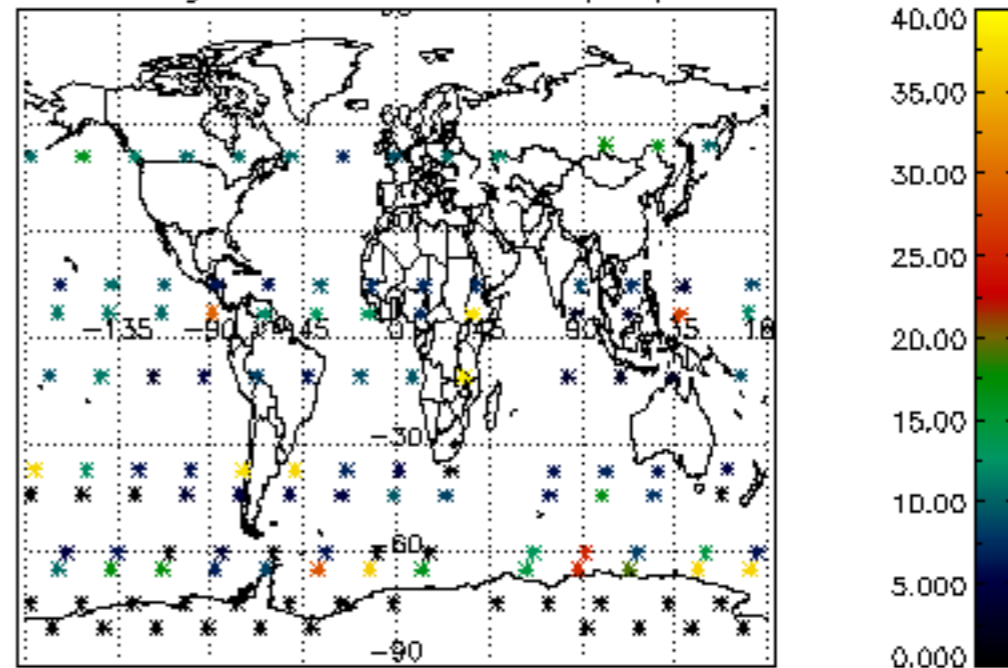
Percentage of datation errors per profile

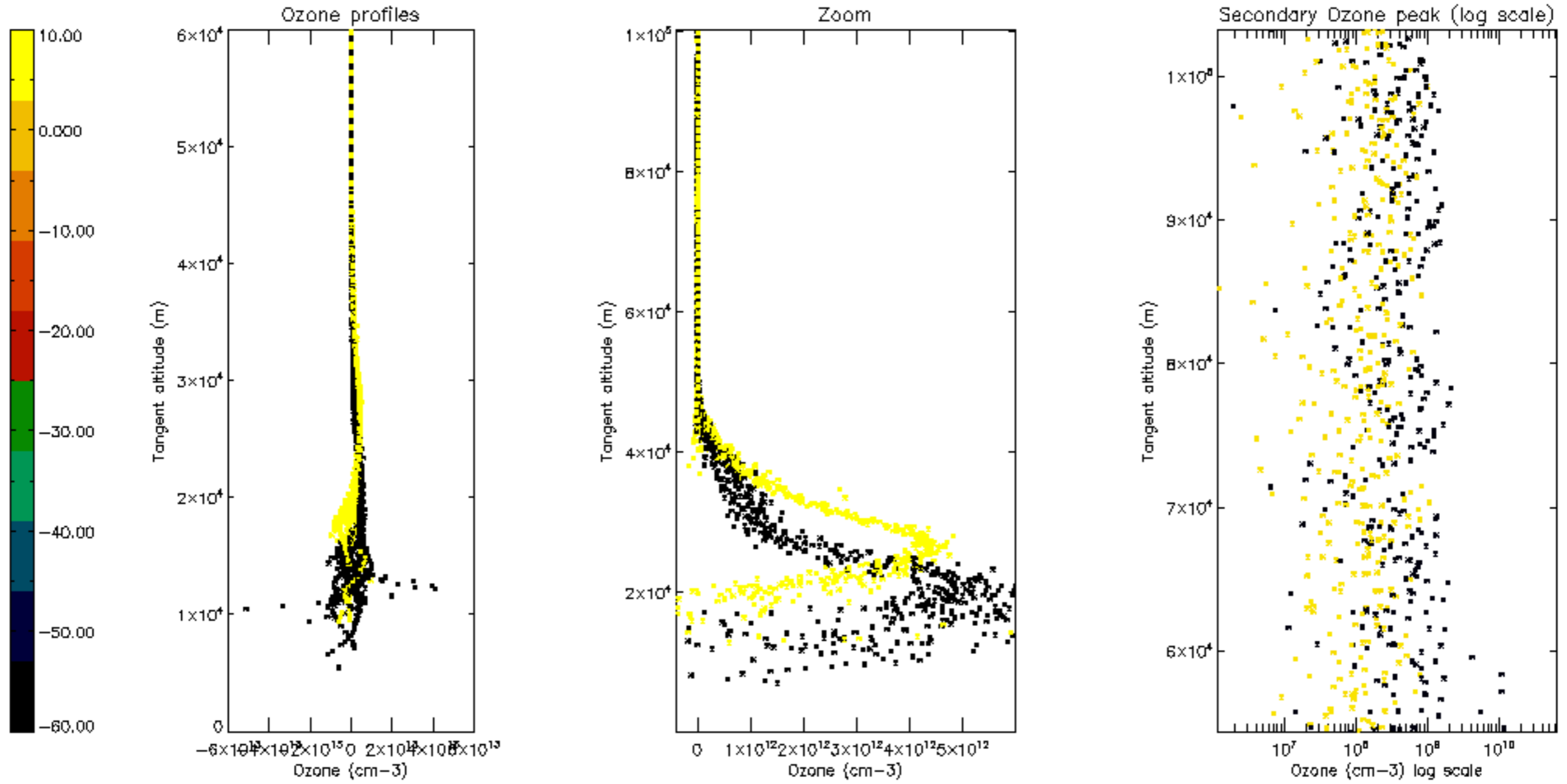


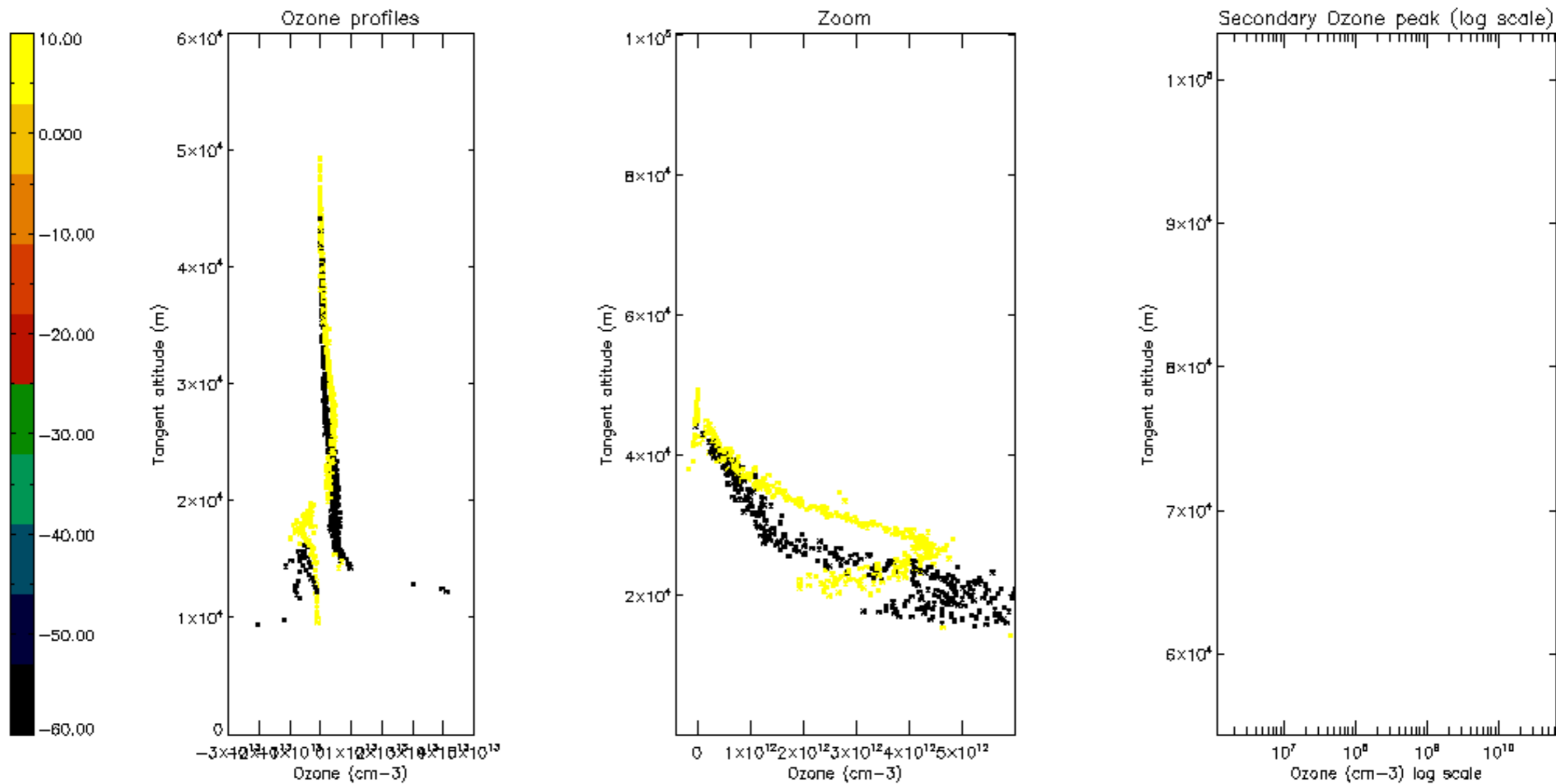
Percentage of star falling outside central band per profile

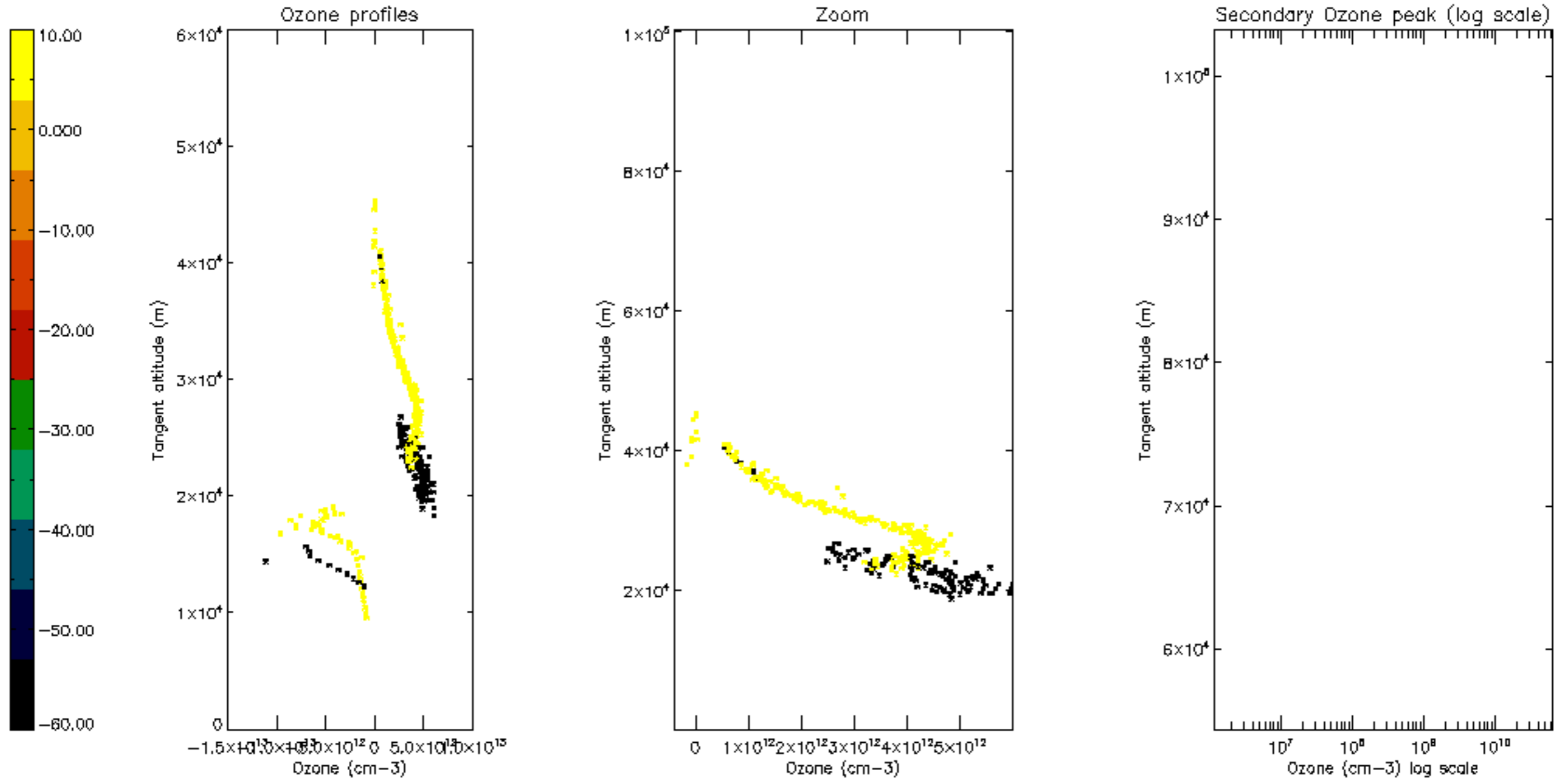


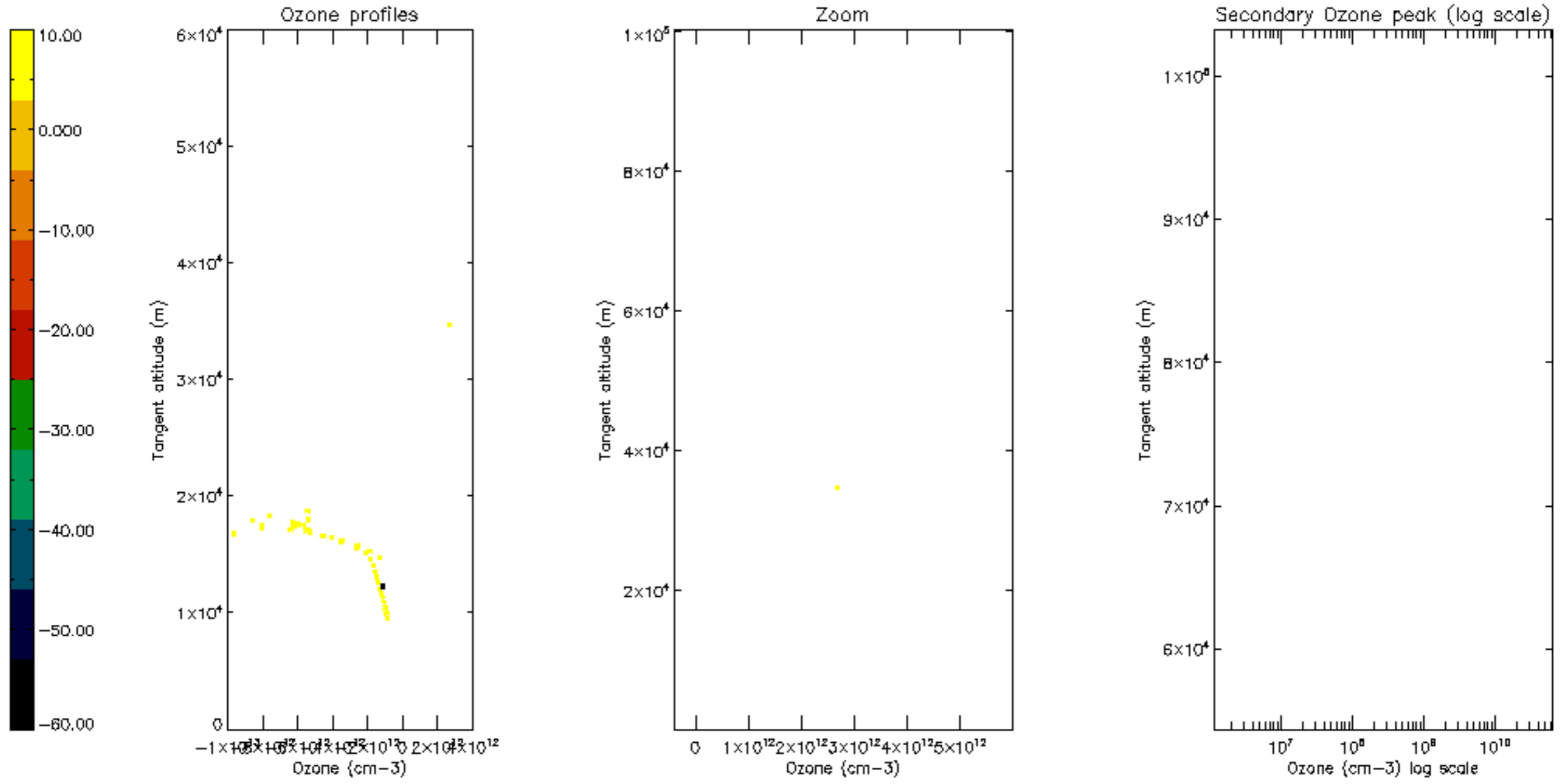
Percentage of saturation errors per profile

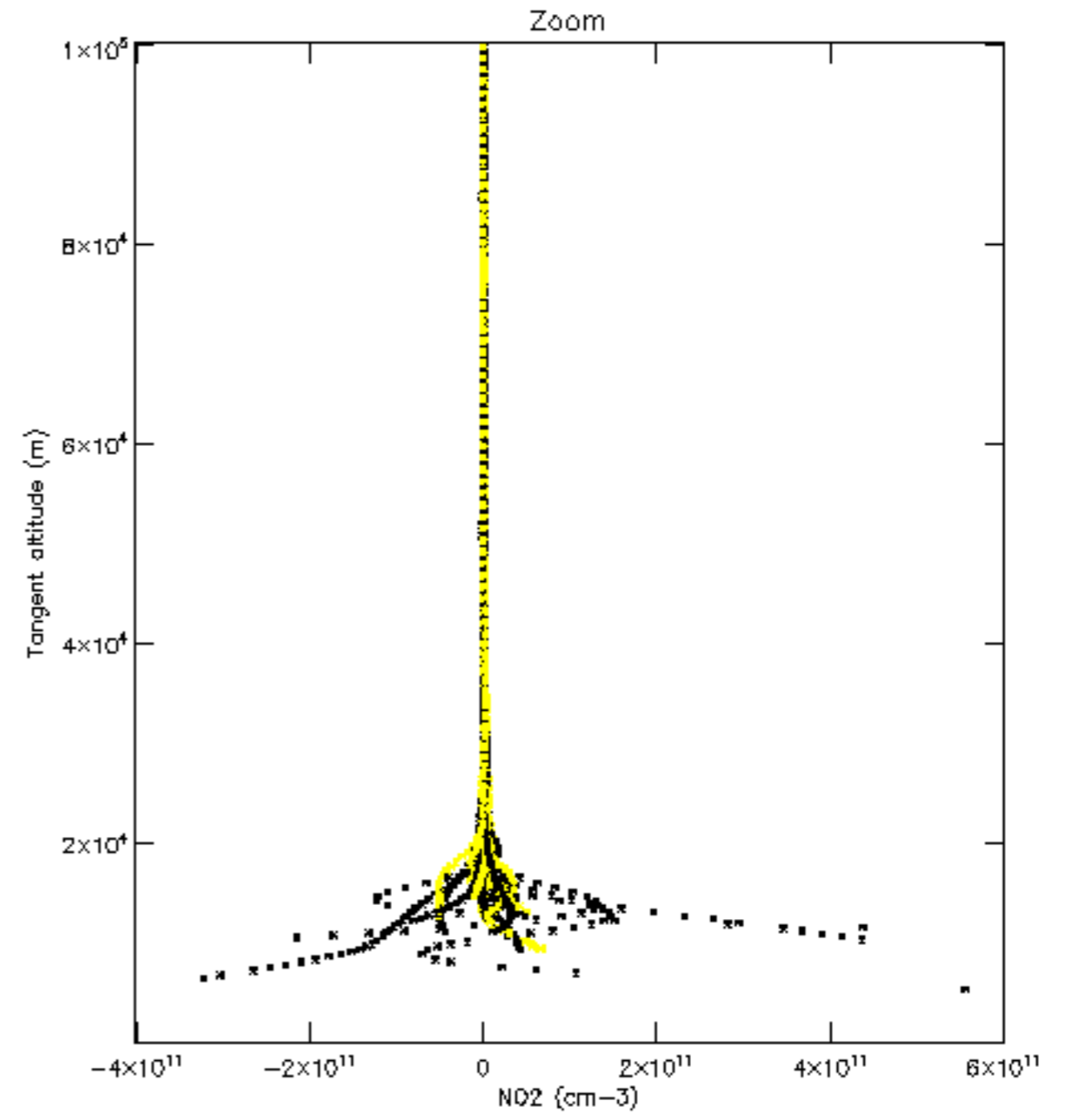
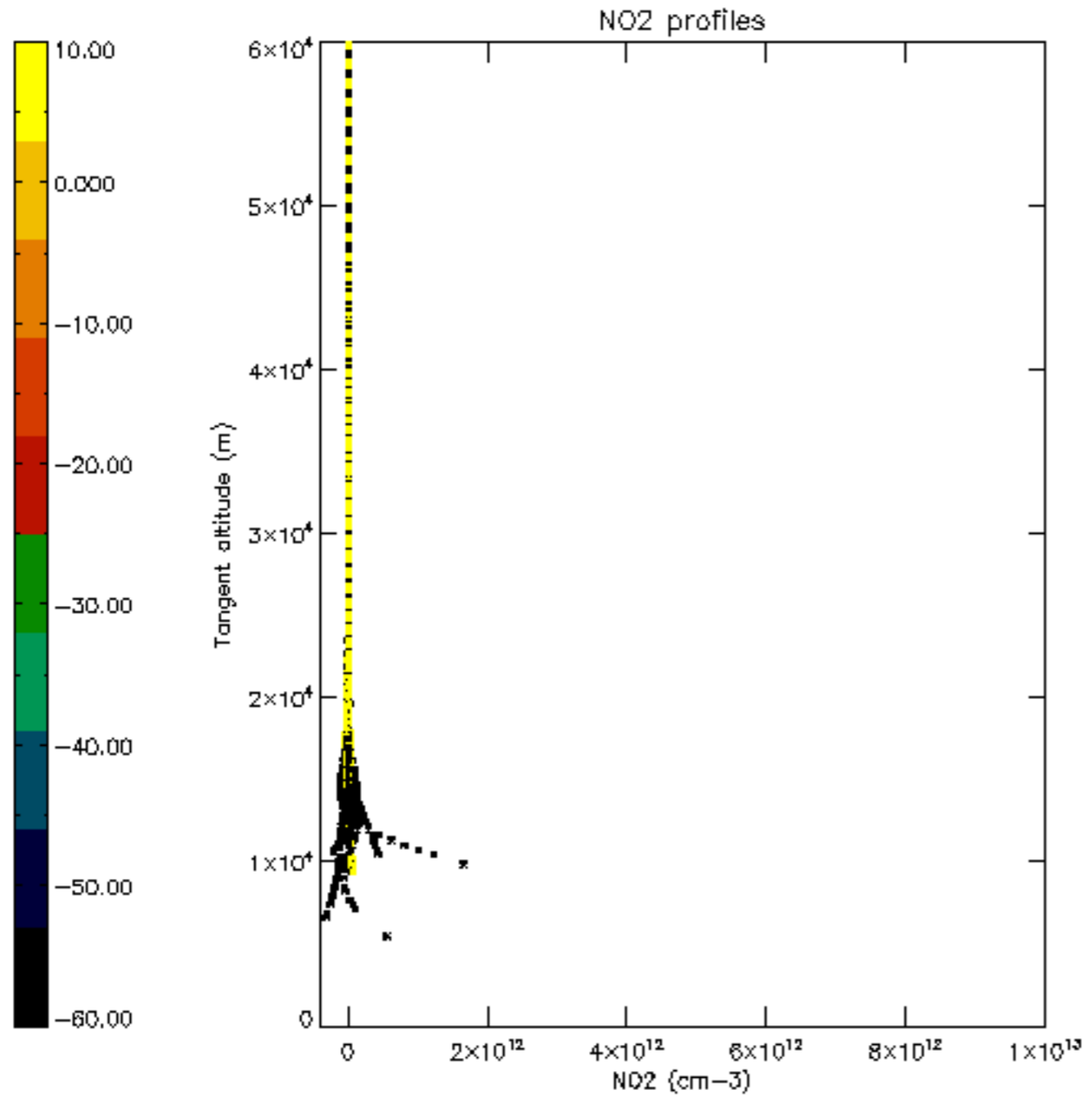


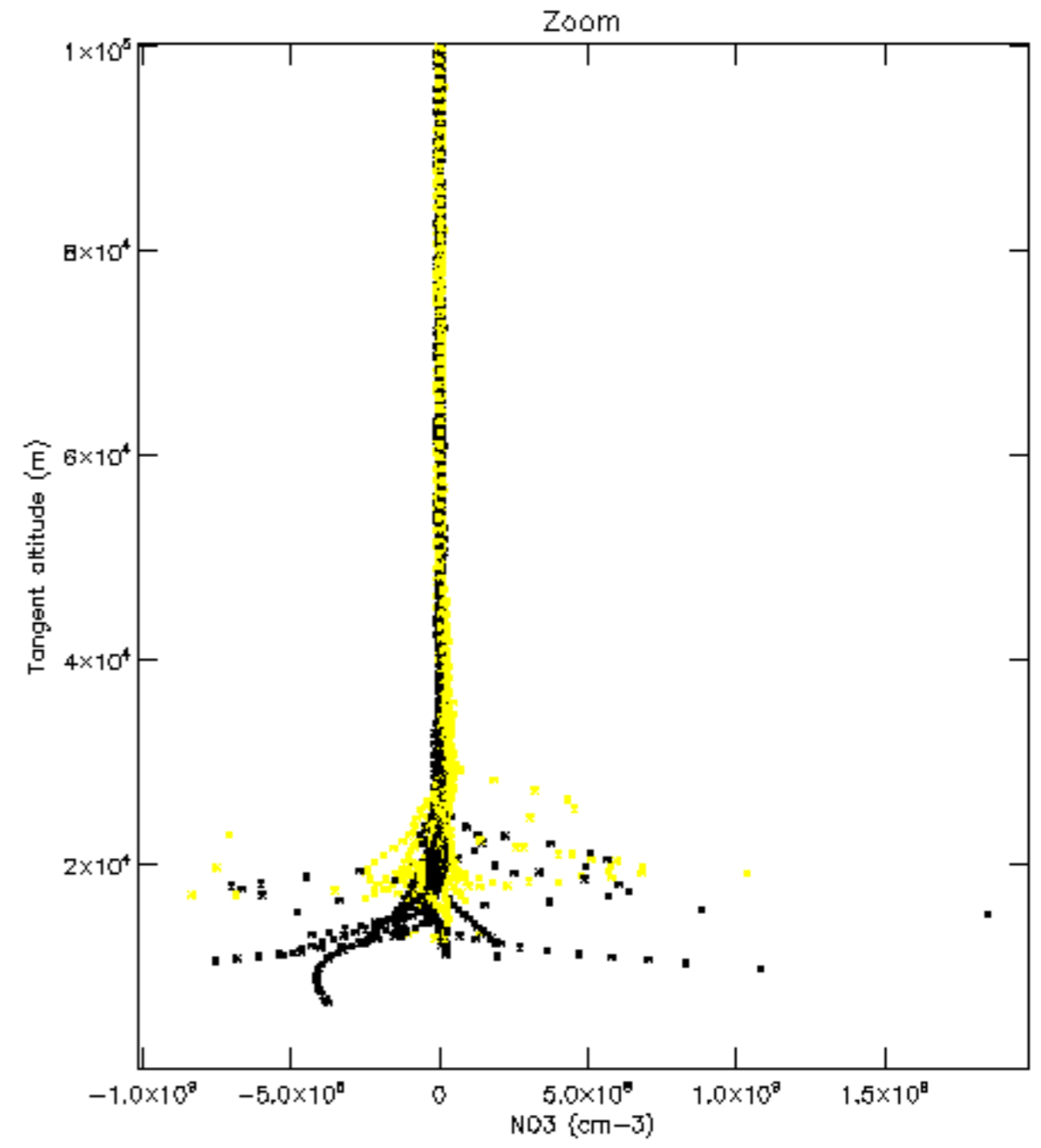
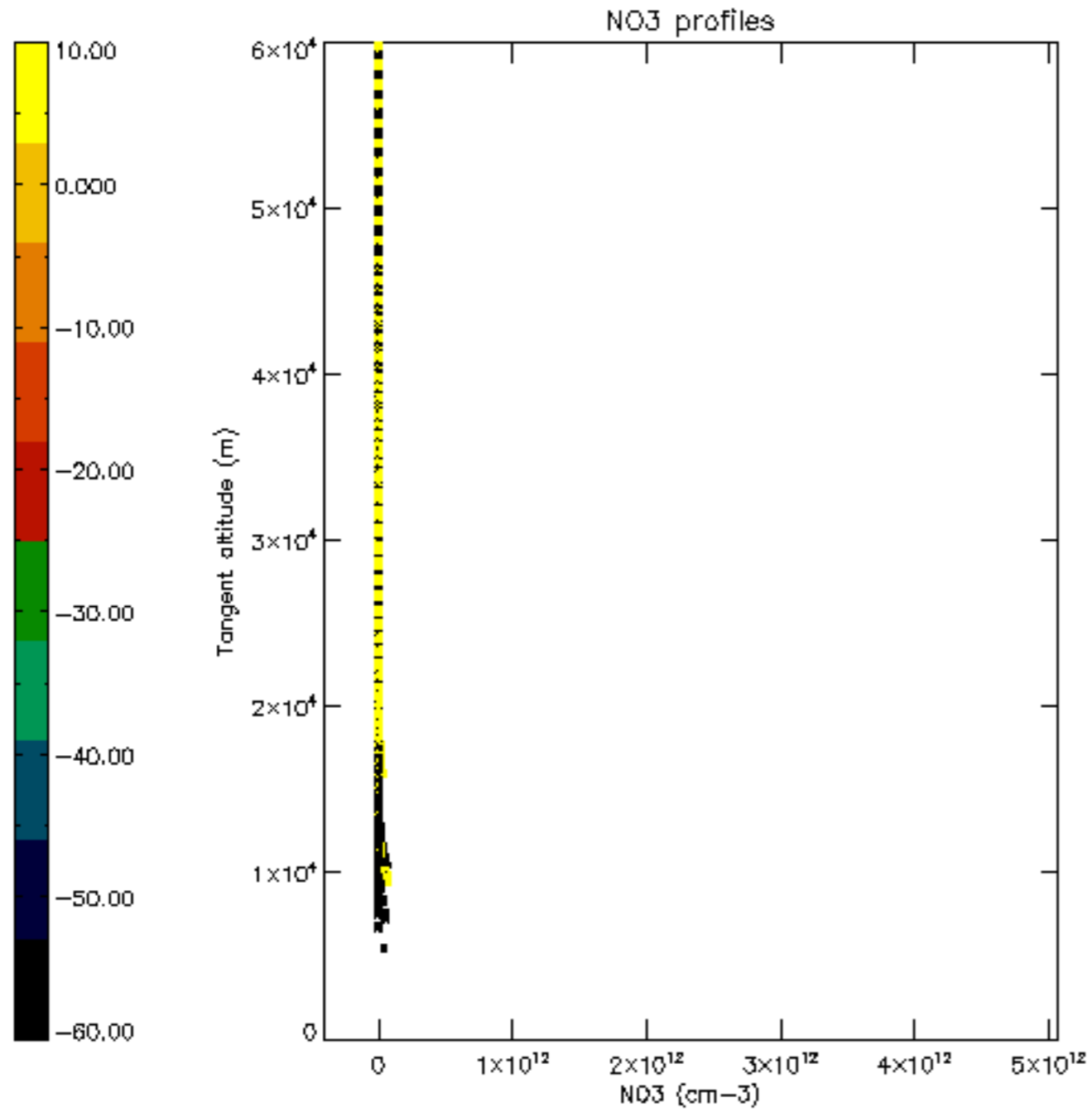


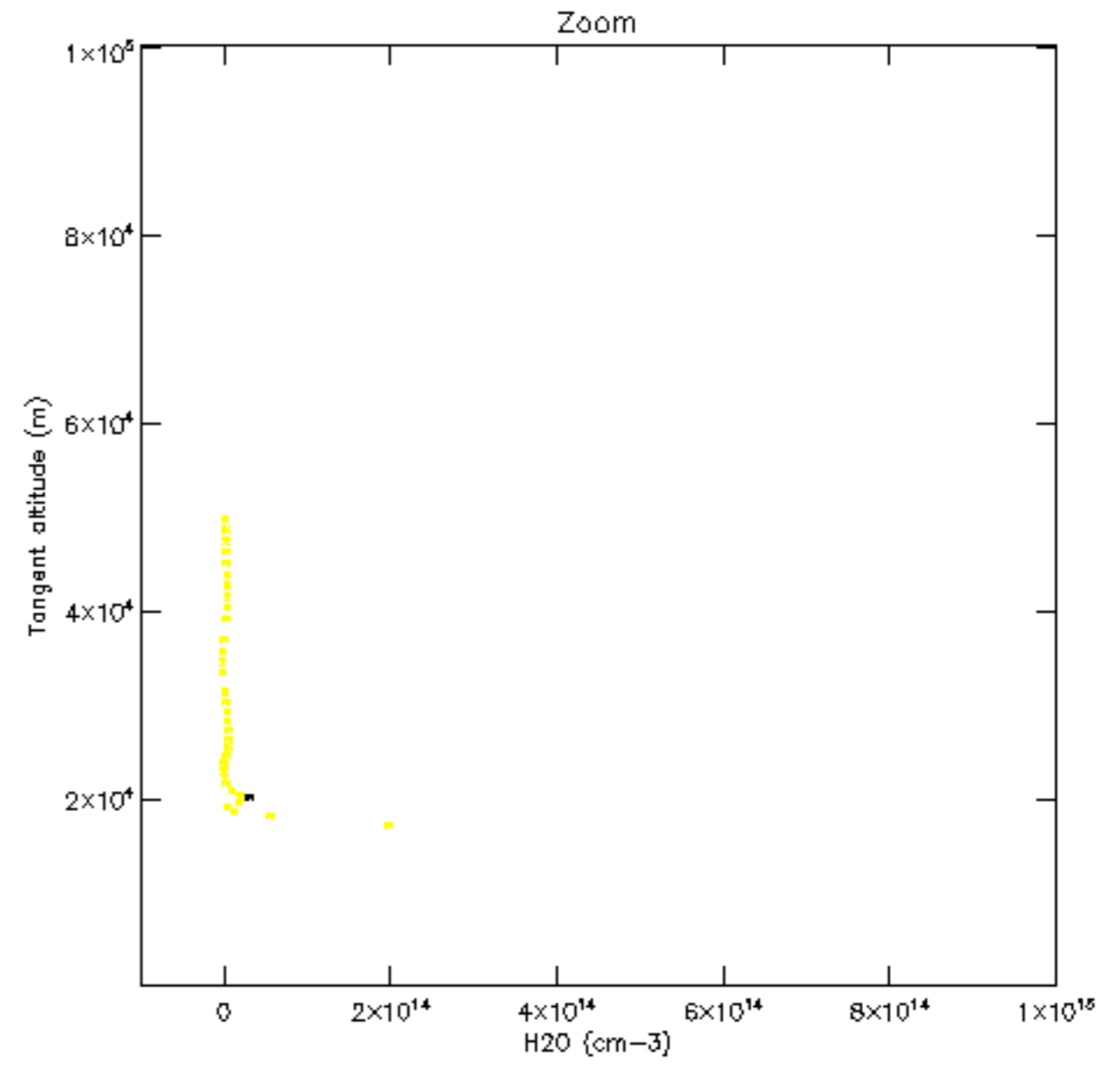
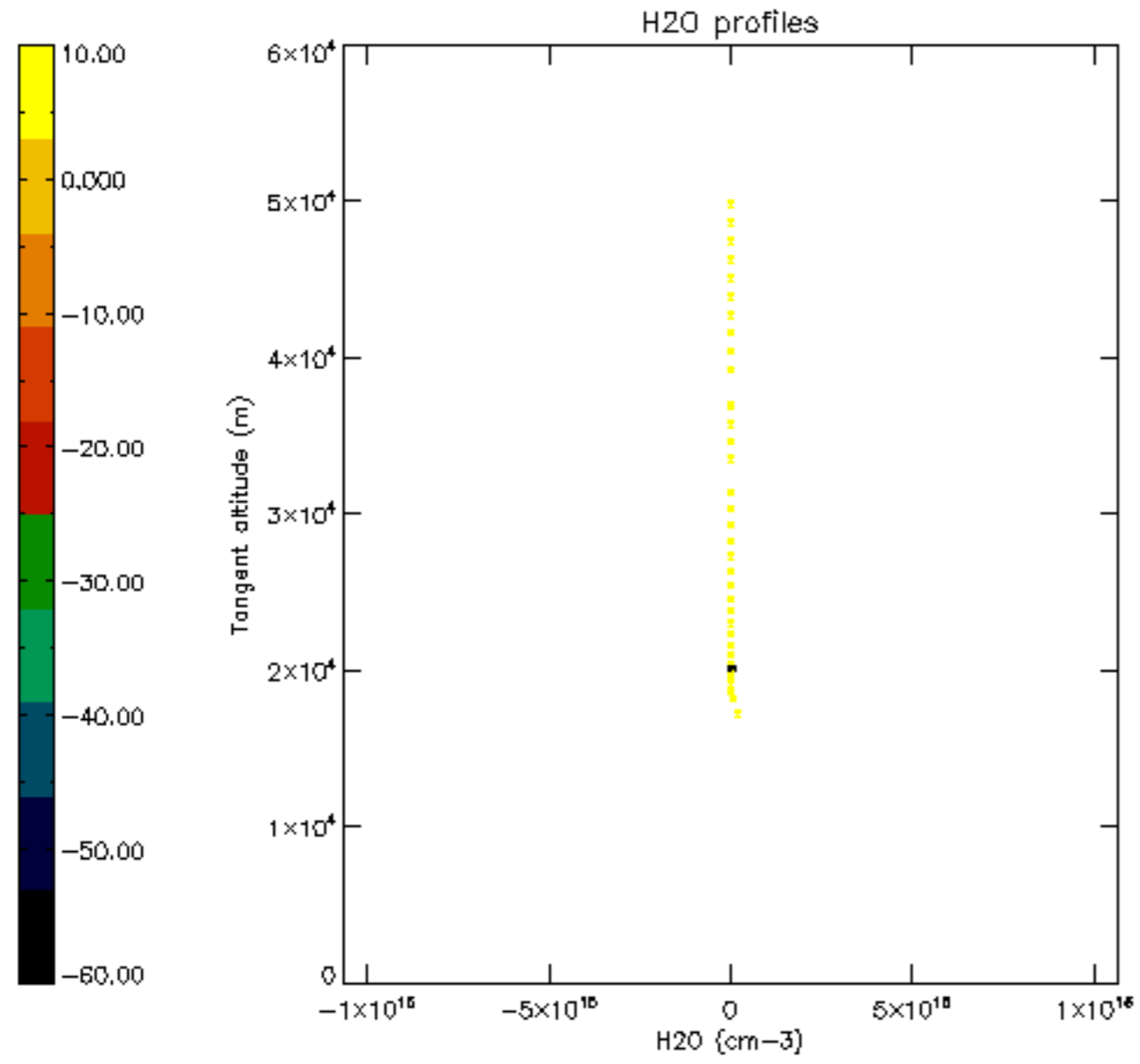


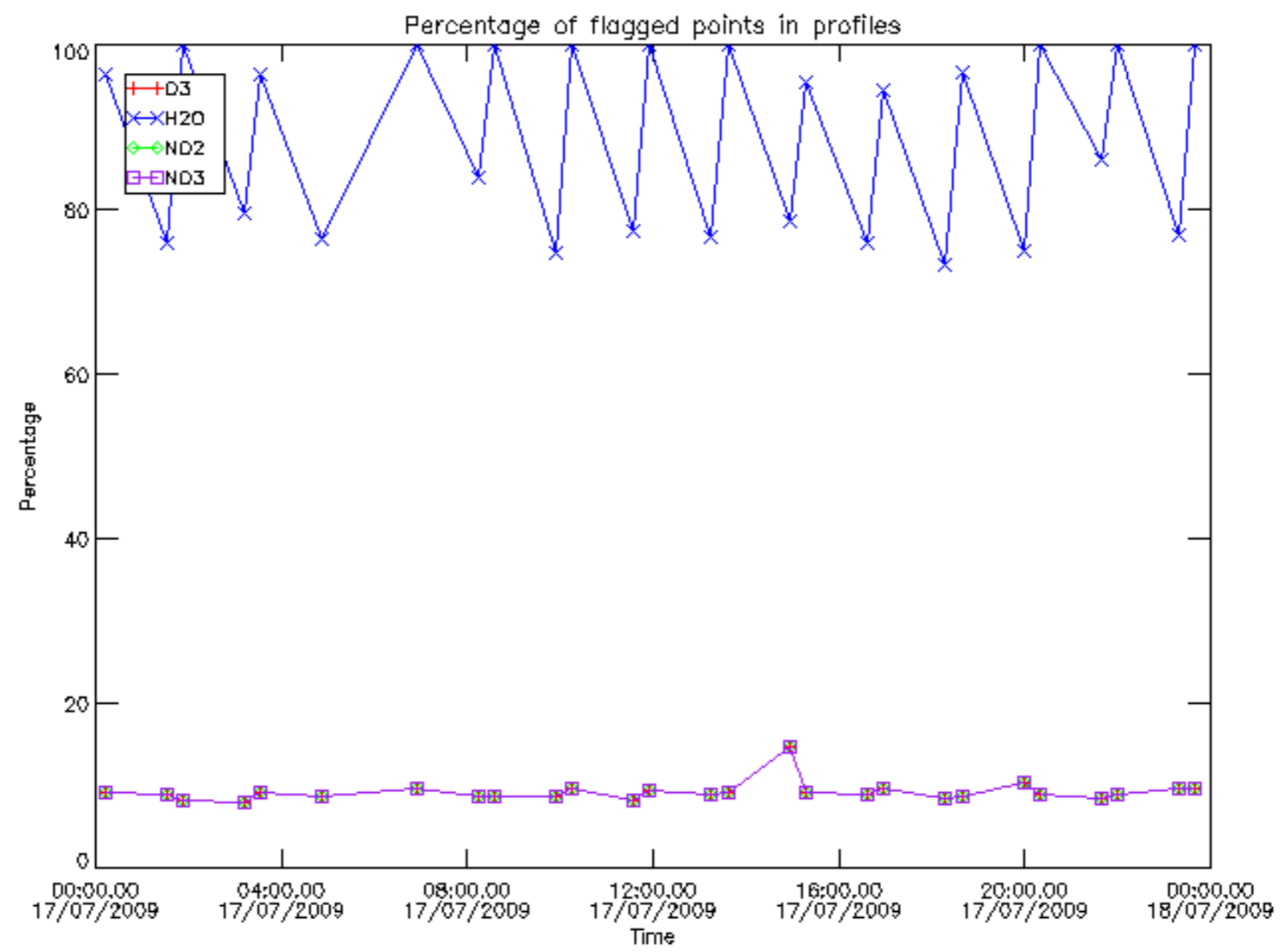




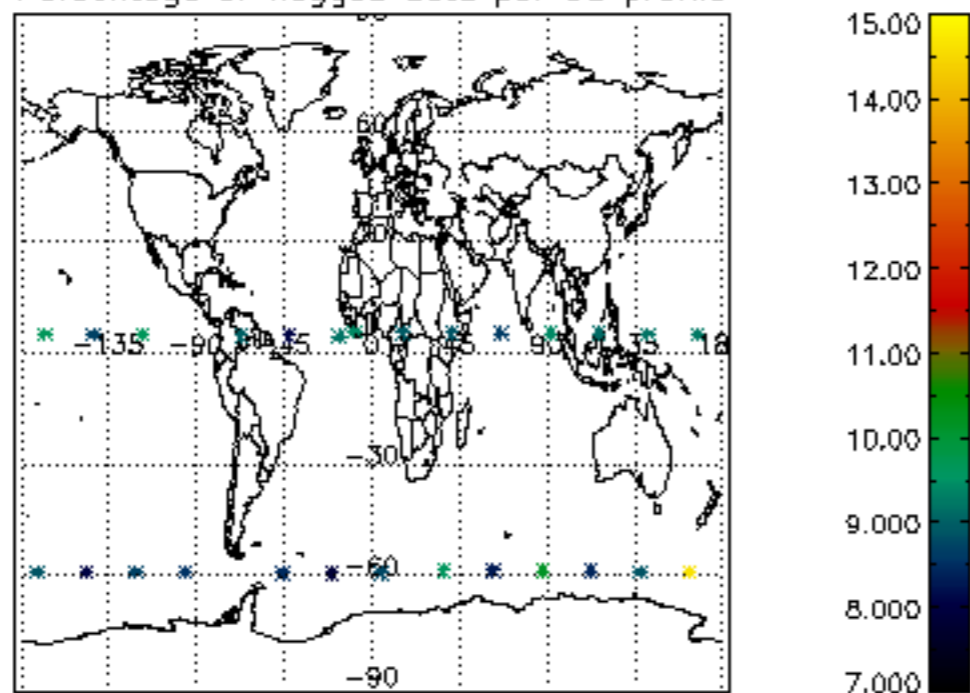




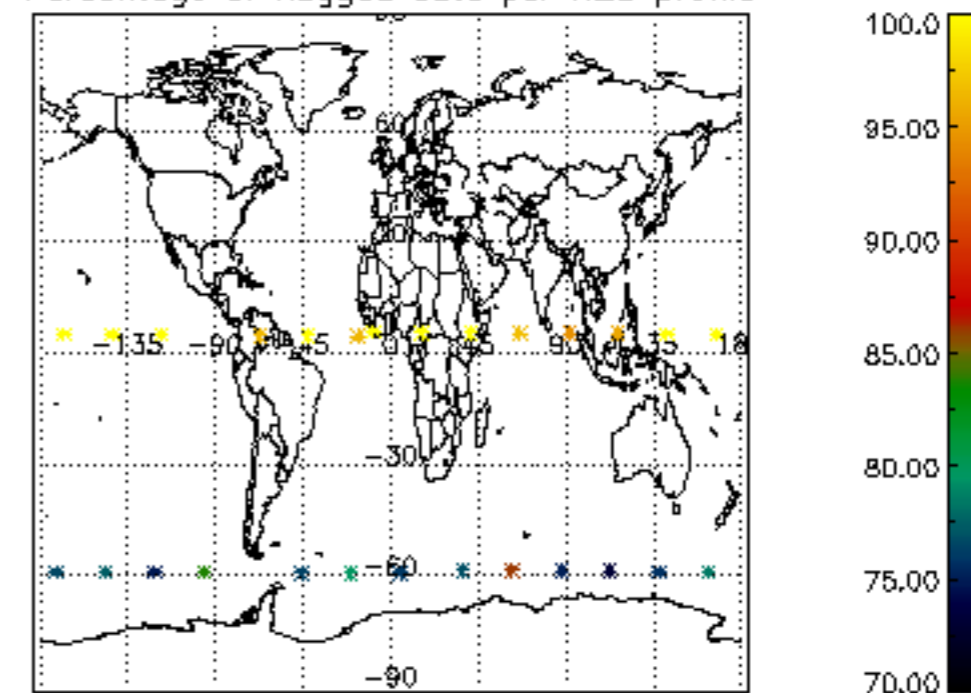




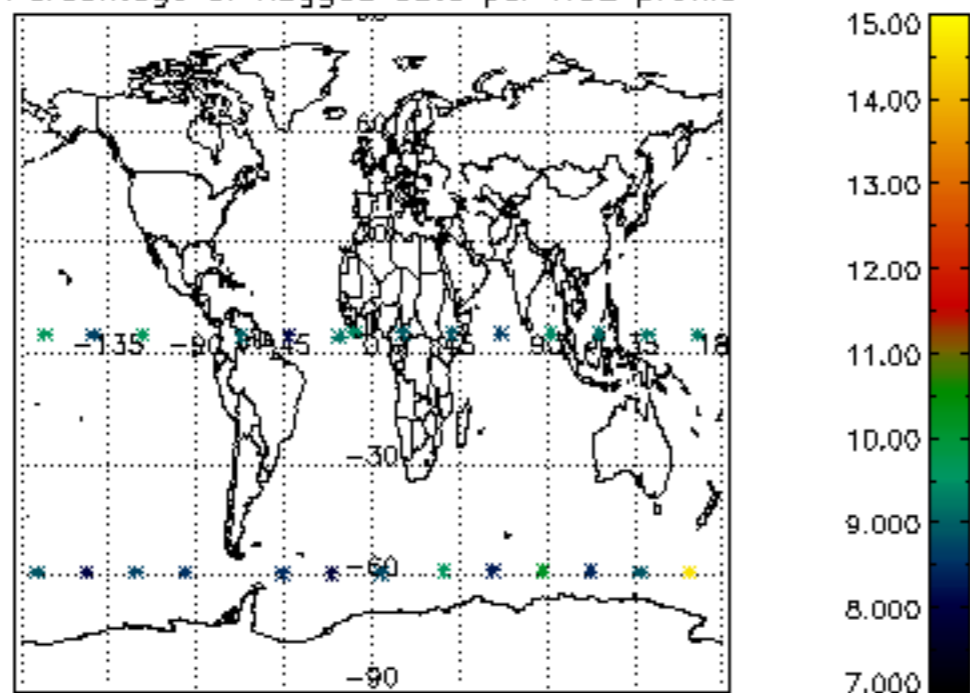
Percentage of flagged data per D3 profile



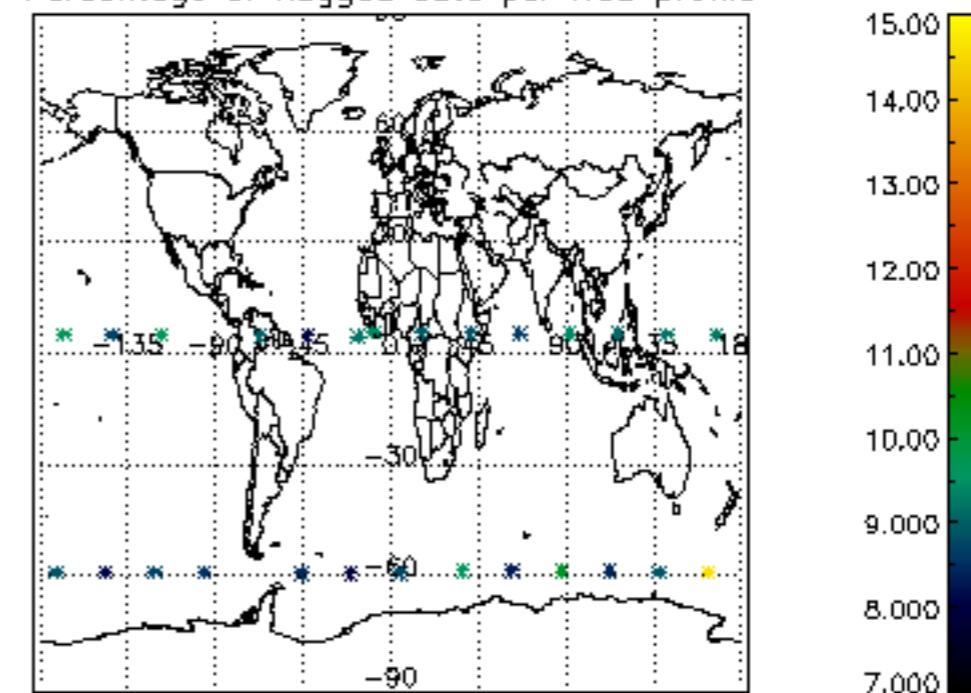
Percentage of flagged data per H2O profile

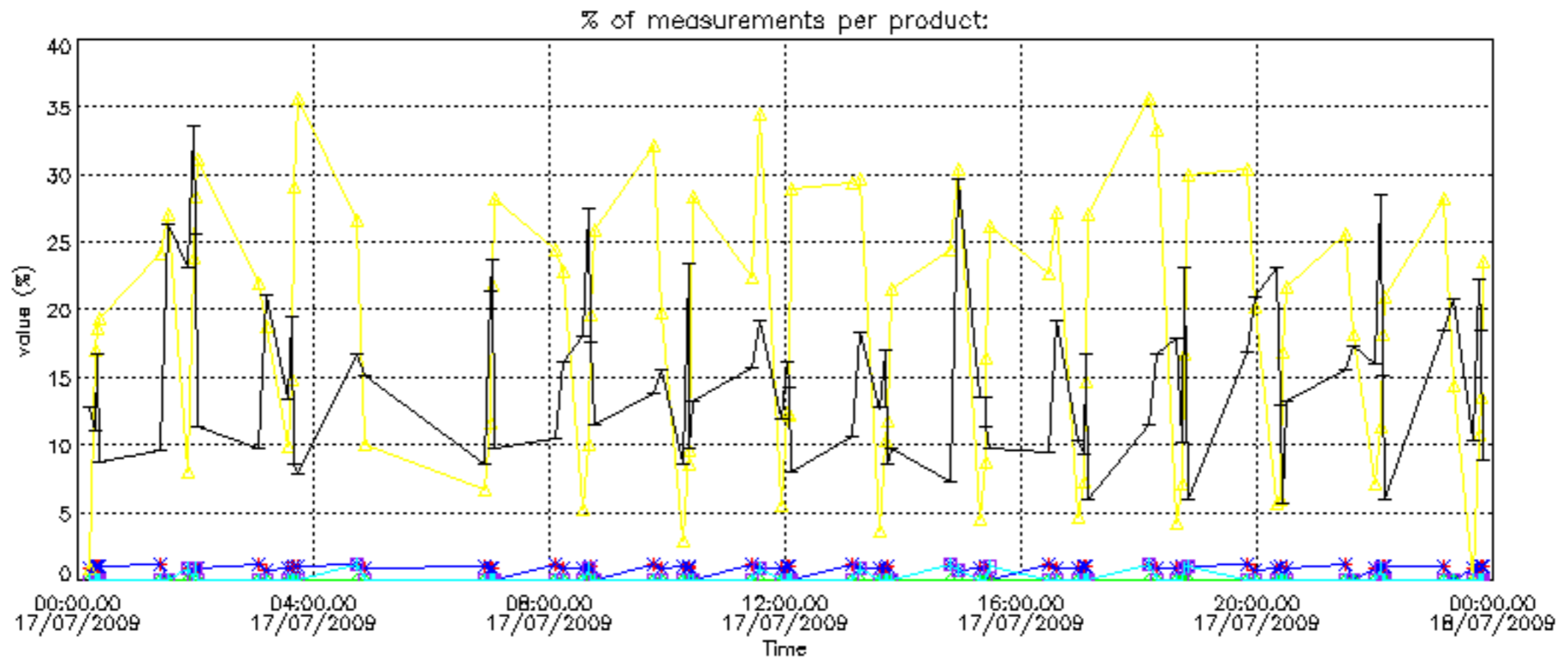


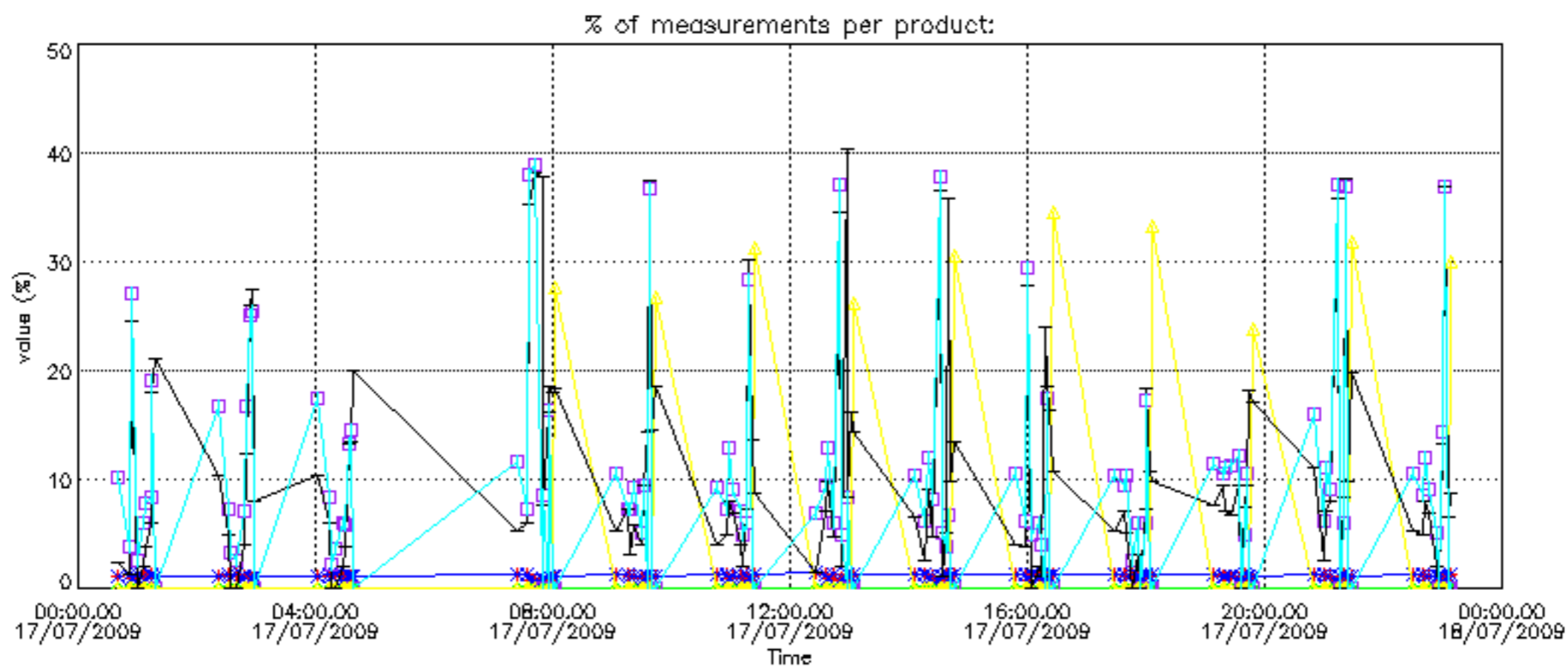
Percentage of flagged data per NO2 profile



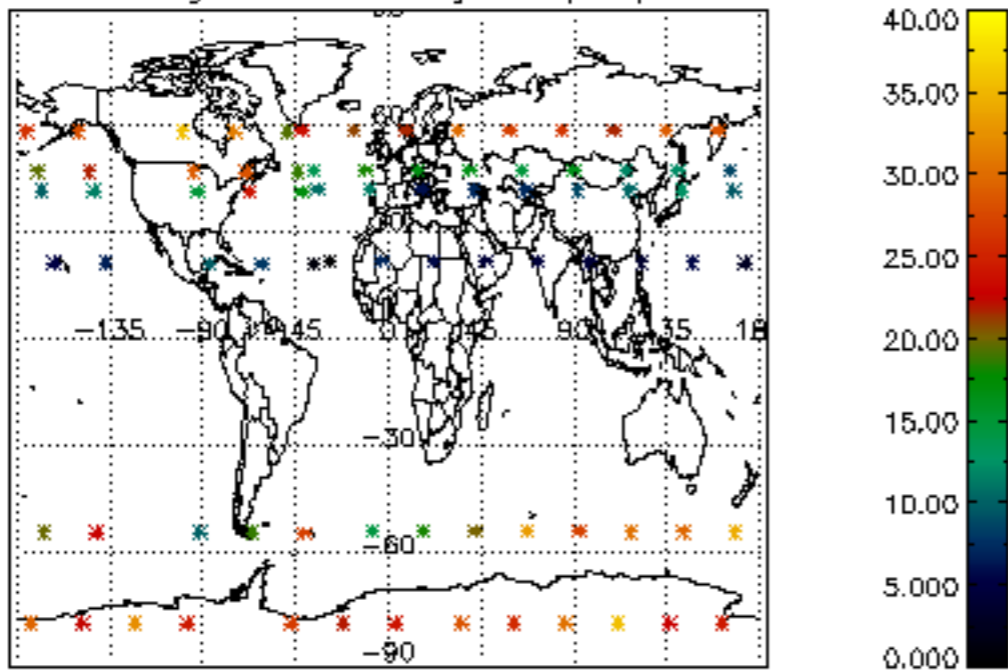
Percentage of flagged data per NO3 profile



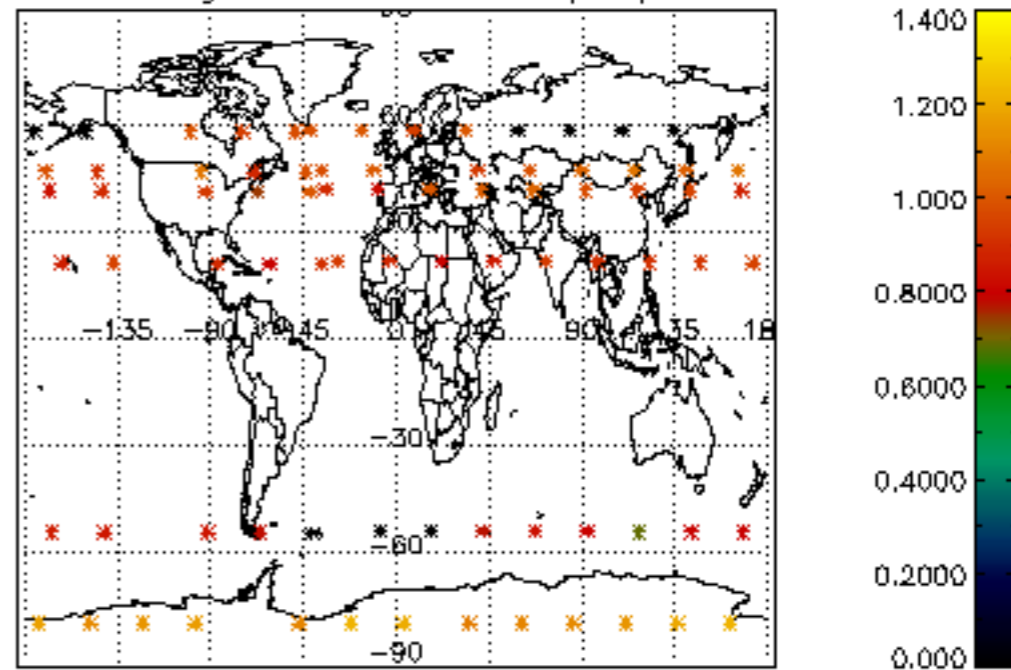




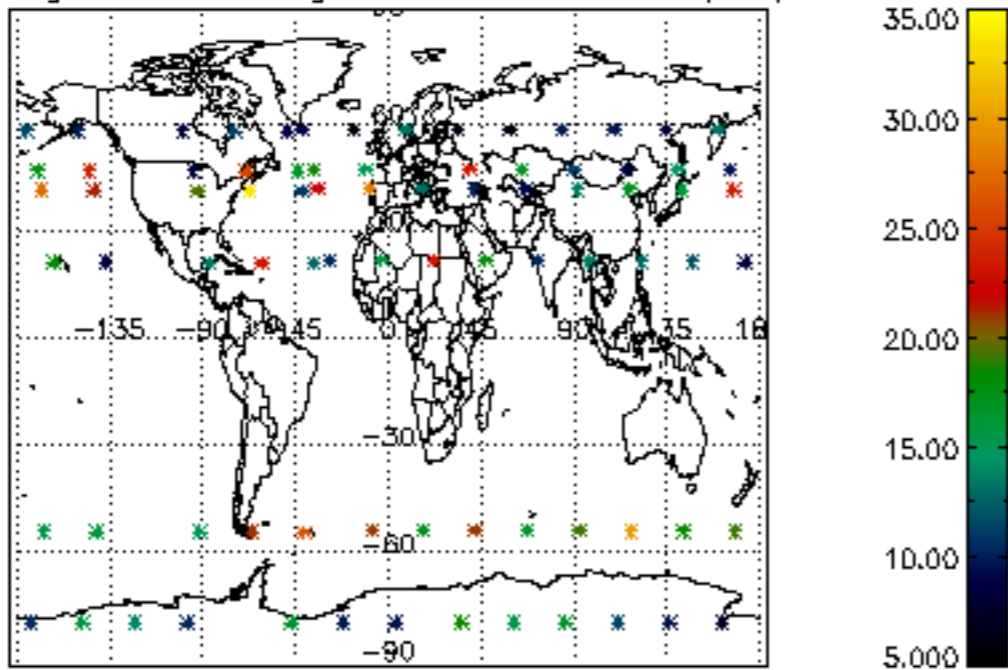
Percentage of cosmic ray hits per profile



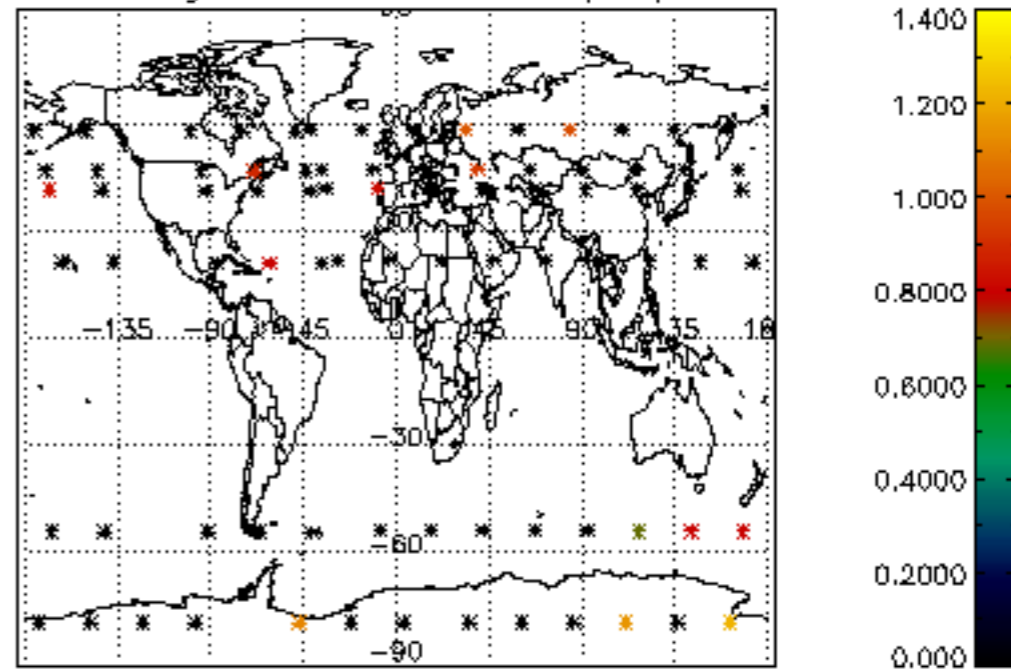
Percentage of datation errors per profile



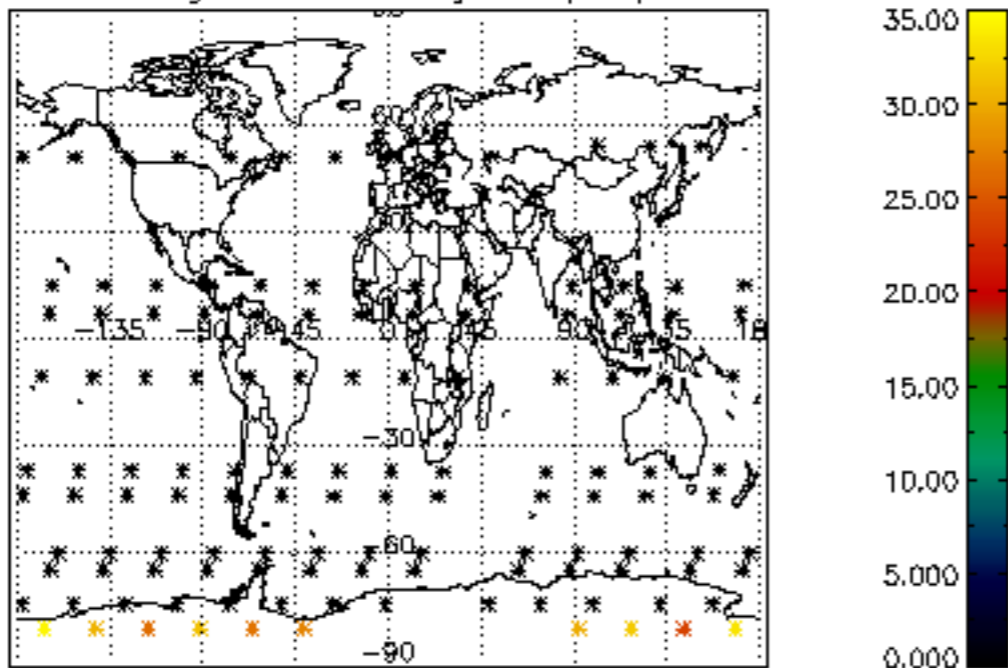
Percentage of star falling outside central band per profile



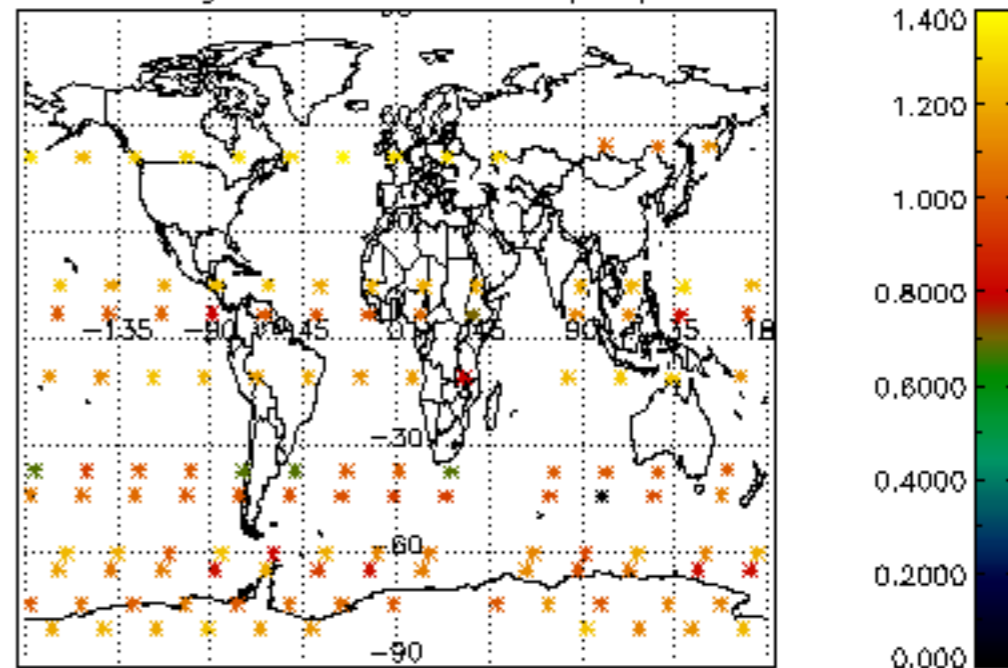
Percentage of saturation errors per profile



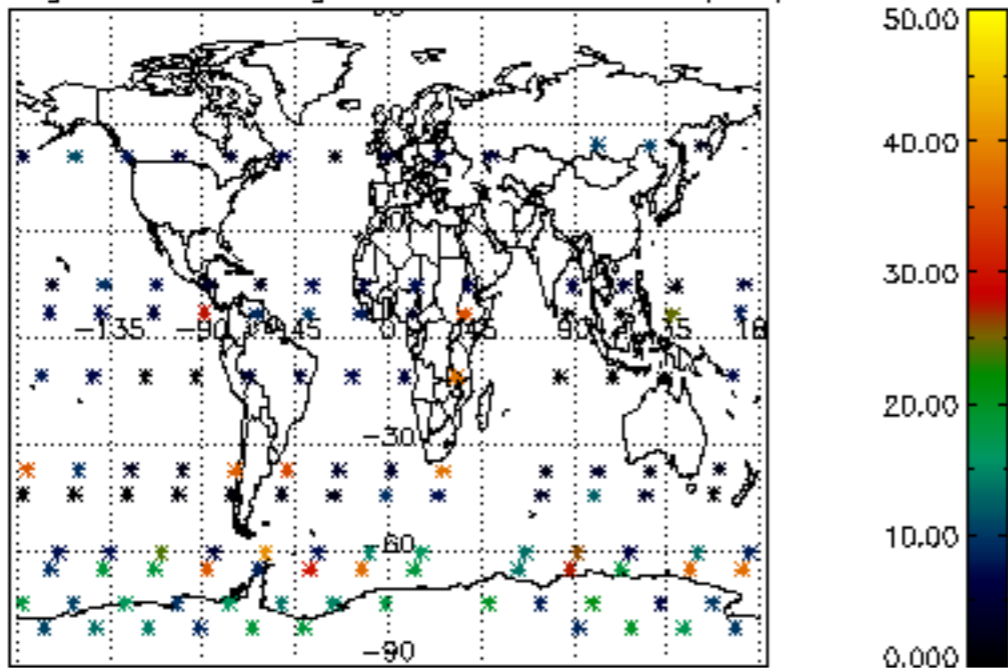
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

