

# GOMOS Level 2 Daily Report

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This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM\_NL\_\_2P). It is intended to monitor some important parameters that will impact the quality of these products. A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	22APR2013 18:16:07
Data source version	GOMOS/6.01
Start time of products	10-04-2007 (10APR2007 00:00:00)
Stop time of products	11-04-2007 (11APR2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	277
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__2PRFIN20070410_000338_000000412057_00102_26709_8455.N1	10-APR-2007 00:03:38	Bright	40.500	152	12Alp2CVn	2.8900	11000.	81	26709	No
2	GOM_NL__2PRFIN20070410_000707_000000362057_00102_26709_8456.N1	10-APR-2007 00:07:07	Bright	36.000	87	64Gam UMa	2.4330	11000.	72	26709	No
3	GOM_NL__2PRFIN20070410_000833_000000392057_00102_26709_8457.N1	10-APR-2007 00:08:33	Bright	38.500	32	77Eps UMa	1.7630	11000.	77	26709	No
4	GOM_NL__2PRFIN20070410_001459_000000402057_00102_26709_8458.N1	10-APR-2007 00:14:59	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	26709	No
5	GOM_NL__2PRFIN20070410_001721_000000362057_00102_26709_8459.N1	10-APR-2007 00:17:21	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	26709	No
6	GOM_NL__2PRFIN20070410_002451_000000372057_00102_26709_8460.N1	10-APR-2007 00:24:51	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	26709	No
7	GOM_NL__2PRFIN20070410_003421_000000332057_00102_26709_8461.N1	10-APR-2007 00:34:21	Bright	33.000	164	44Eta Peg	2.9480	5400.0	66	26709	No
8	GOM_NL__2PRFIN20070410_004105_000000462057_00102_26709_8462.N1	10-APR-2007 00:41:05	Twilight	46.000	61	8Eps Peg	2.1000	3900.0	92	26709	No
9	GOM_NL__2PRFIN20070410_004334_000000442057_00102_26709_8463.N1	10-APR-2007 00:43:34	Dark	44.000	162	34Alp Aqr	2.9440	5350.0	88	26709	No
10	GOM_NL__2PRFIN20070410_004556_000000472057_00102_26709_8464.N1	10-APR-2007 00:45:56	Dark	47.000	154	22Bet Aqr	2.8990	5700.0	94	26709	No
11	GOM_NL__2PRFIN20070410_004824_000000442057_00102_26709_8465.N1	10-APR-2007 00:48:24	Dark	43.500	142	49Del Cap	2.8500	8900.0	87	26709	No
12	GOM_NL__2PRFIN20070410_010044_000000392057_00103_26710_8460.N1	10-APR-2007 01:00:44	Dark	38.500	45	Alp Pav	1.9400	26000.	77	26710	No
13	GOM_NL__2PRFIN20070410_010741_000000442057_00103_26710_8461.N1	10-APR-2007 01:07:41	Dark	43.500	141	Bet Ara	2.8400	4600.0	87	26710	No
14	GOM_NL__2PRFIN20070410_011014_000000382057_00103_26710_8462.N1	10-APR-2007 01:10:14	Dark	38.000	134	Bet TrA	2.8100	6600.0	76	26710	No
15	GOM_NL__2PRFIN20070410_011245_000000552057_00103_26710_8463.N1	10-APR-2007 01:12:45	Straylight	54.500	4	Alp1Cen	-0.010000	5800.0	109	26710	No
16	GOM_NL__2PRFIN20070410_011546_000000422057_00103_26710_8464.N1	10-APR-2007 01:15:46	Straylight	42.000	78	Alp Lup	2.3040	28000.	84	26710	No
17	GOM_NL__2PRFIN20070410_011723_000000442057_00103_26710_8465.N1	10-APR-2007 01:17:23	Straylight	44.000	81	Eta Cen	2.3560	28000.	88	26710	No
18	GOM_NL__2PRFIN20070410_011953_000000472057_00103_26710_8466.N1	10-APR-2007 01:19:53	Straylight	47.000	54	5The Cen	2.0550	4500.0	94	26710	No
19	GOM_NL__2PRFIN20070410_012519_000000412057_00103_26710_8467.N1	10-APR-2007 01:25:19	Twilight	41.000	106	9Bet Crv	2.6480	5600.0	82	26710	No
20	GOM_NL__2PRFIN20070410_012711_000000412057_00103_26710_8468.N1	10-APR-2007 01:27:11	Twilight	40.500	100	4Gam Crv	2.5800	13100.	81	26710	No
21	GOM_NL__2PRFIN20070410_013151_000000412057_00103_26710_8469.N1	10-APR-2007 01:31:51	Bright	40.500	121	29Gam Vir	2.7400	7200.0	81	26710	No
22	GOM_NL__2PRFIN20070410_013631_000000362057_00103_26710_8470.N1	10-APR-2007 01:36:31	Bright	36.000	62	94Bet Leo	2.1360	9700.0	72	26710	No
23	GOM_NL__2PRFIN20070410_014414_000000402057_00103_26710_8471.N1	10-APR-2007 01:44:14	Bright	39.500	152	12Alp2CVn	2.8900	11000.	79	26710	No
24	GOM_NL__2PRFIN20070410_014743_000000362057_00103_26710_8472.N1	10-APR-2007 01:47:43	Bright	35.500	87	64Gam UMa	2.4330	11000.	71	26710	No
25	GOM_NL__2PRFIN20070410_014908_000000372057_00103_26710_8473.N1	10-APR-2007 01:49:08	Bright	37.000	32	77Eps UMa	1.7630	11000.	74	26710	No
26	GOM_NL__2PRFIN20070410_015534_000000402057_00103_26710_8474.N1	10-APR-2007 01:55:34	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	26710	No
27	GOM_NL__2PRFIN20070410_015757_000000342057_00103_26710_8475.N1	10-APR-2007 01:57:57	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	26710	No
28	GOM_NL__2PRFIN20070410_020527_000000372057_00103_26710_8476.N1	10-APR-2007 02:05:27	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	26710	No
29	GOM_NL__2PRFIN20070410_021457_000000352057_00103_26710_8477.N1	10-APR-2007 02:14:57	Bright	34.500	164	44Eta Peg	2.9480	5400.0	69	26710	No
30	GOM_NL__2PRFIN20070410_022142_000000492057_00103_26710_8478.N1	10-APR-2007 02:21:42	Twilight	49.000	61	8Eps Peg	2.1000	3900.0	98	26710	No
31	GOM_NL__2PRFIN20070410_022410_000000442057_00103_26710_8479.N1	10-APR-2007 02:24:10	Dark	43.500	162	34Alp Aqr	2.9440	5350.0	87	26710	No
32	GOM_NL__2PRFIN20070410_022632_000000472057_00103_26710_8480.N1	10-APR-2007 02:26:32	Dark	46.500	154	22Bet Aqr	2.8990	5700.0	93	26710	No
33	GOM_NL__2PRFIN20070410_024120_000000412057_00104_26711_8471.N1	10-APR-2007 02:41:20	Dark	41.000	45	Alp Pav	1.9400	26000.	82	26711	No
34	GOM_NL__2PRFIN20070410_024817_000000452057_00104_26711_8472.N1	10-APR-2007 02:48:17	Dark	44.500	141	Bet Ara	2.8400	4600.0	89	26711	No
35	GOM_NL__2PRFIN20070410_025050_000000382057_00104_26711_8473.N1	10-APR-2007 02:50:50	Dark	37.500	134	Bet TrA	2.8100	6600.0	75	26711	No
36	GOM_NL__2PRFIN20070410_025321_000000532057_00104_26711_8474.N1	10-APR-2007 02:53:21	Straylight	52.500	4	Alp1Cen	-0.010000	5800.0	105	26711	No
37	GOM_NL__2PRFIN20070410_025623_000000432057_00104_26711_8475.N1	10-APR-2007 02:56:23	Straylight	42.500	78	Alp Lup	2.3040	28000.	85	26711	No
38	GOM_NL__2PRFIN20070410_025759_000000442057_00104_26711_8476.N1	10-APR-2007 02:57:59	Straylight	43.500	81	Eta Cen	2.3560	28000.	87	26711	No
39	GOM_NL__2PRFIN20070410_030029_000000492057_00104_26711_8477.N1	10-APR-2007 03:00:29	Straylight	48.500	54	5The Cen	2.0550	4500.0	97	26711	No
40	GOM_NL__2PRFIN20070410_030556_000000432057_00104_26711_8478.N1	10-APR-2007 03:05:56	Twilight	42.500	106	9Bet Crv	2.6480	5600.0	85	26711	No
41	GOM_NL__2PRFIN20070410_030747_000000402057_00104_26711_8479.N1	10-APR-2007 03:07:47	Twilight	40.000	100	4Gam Crv	2.5800	13100.	80	26711	No
42	GOM_NL__2PRFIN20070410_031226_000000402057_00104_26711_8480.N1	10-APR-2007 03:12:26	Bright	40.000	121	29Gam Vir	2.7400	7200.0	80	26711	No





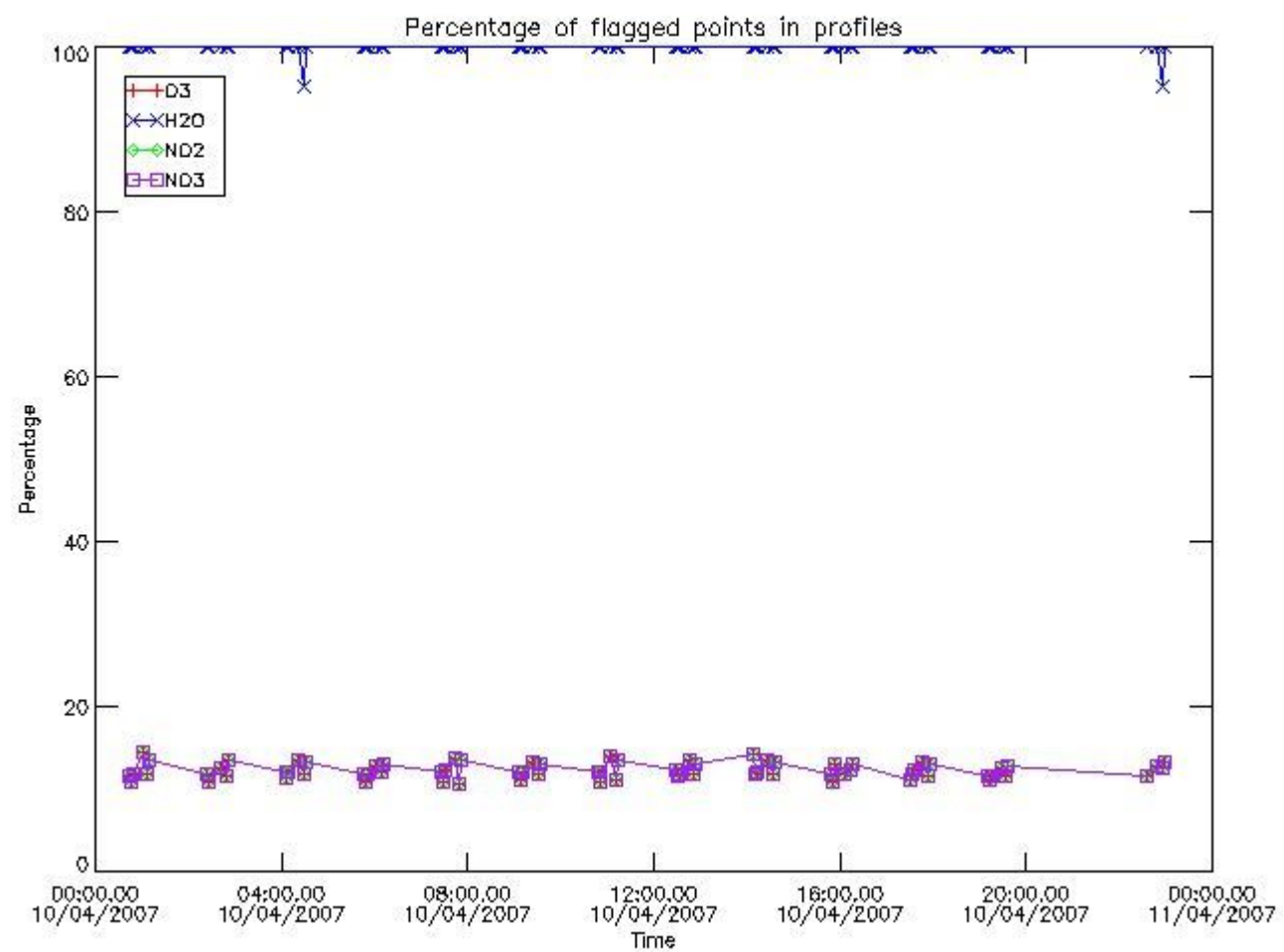


220	GOM_NL__2PRFIN20070410_164934_000000392057_00112_26719_8929.N1	10-APR-2007 16:49:34	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	26719	No
221	GOM_NL__2PRFIN20070410_165305_000000362057_00112_26719_8930.N1	10-APR-2007 16:53:05	Bright	35.500	87	64Gam UMa	2.4330	11000.	71	26719	No
222	GOM_NL__2PRFIN20070410_165429_000000392057_00112_26719_8931.N1	10-APR-2007 16:54:29	Bright	39.000	32	77Eps UMa	1.7630	11000.	78	26719	No
223	GOM_NL__2PRFIN20070410_170055_000000402057_00112_26719_8932.N1	10-APR-2007 17:00:55	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	26719	No
224	GOM_NL__2PRFIN20070410_170321_000000352057_00112_26719_8933.N1	10-APR-2007 17:03:21	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	26719	No
225	GOM_NL__2PRFIN20070410_171050_000000382057_00112_26719_8934.N1	10-APR-2007 17:10:50	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	26719	No
226	GOM_NL__2PRFIN20070410_172022_000000442057_00112_26719_8935.N1	10-APR-2007 17:20:22	Bright	43.500	164	44Eta Peg	2.9480	5400.0	87	26719	No
227	GOM_NL__2PRFIN20070410_172709_000000502057_00112_26719_8936.N1	10-APR-2007 17:27:09	Twilight	50.000	61	8Eps Peg	2.1000	3900.0	100	26719	No
228	GOM_NL__2PRFIN20070410_172937_000000462057_00112_26719_8937.N1	10-APR-2007 17:29:37	Dark	45.500	162	34Alp Aqr	2.9440	5350.0	91	26719	No
229	GOM_NL__2PRFIN20070410_173200_000000442057_00112_26719_8938.N1	10-APR-2007 17:32:00	Dark	43.500	154	22Bet Aqr	2.8990	5700.0	87	26719	No
230	GOM_NL__2PRFIN20070410_173428_000000422057_00112_26719_8939.N1	10-APR-2007 17:34:28	Dark	41.500	142	49Del Cap	2.8500	8900.0	83	26719	No
231	GOM_NL__2PRFIN20070410_174648_000000392057_00113_26720_8922.N1	10-APR-2007 17:46:48	Dark	38.500	45	Alp Pav	1.9400	26000.	77	26720	No
232	GOM_NL__2PRFIN20070410_175348_000000442057_00113_26720_8923.N1	10-APR-2007 17:53:48	Dark	44.000	141	Bet Ara	2.8400	4600.0	88	26720	No
233	GOM_NL__2PRFIN20070410_175618_000000392057_00113_26720_8924.N1	10-APR-2007 17:56:18	Dark	39.000	134	Bet TrA	2.8100	6600.0	78	26720	No
234	GOM_NL__2PRFIN20070410_175848_000000512057_00113_26720_8925.N1	10-APR-2007 17:58:48	Straylight	51.000	4	Alp1Cen	-0.010000	5800.0	102	26720	No
235	GOM_NL__2PRFIN20070410_180151_000000432057_00113_26720_8926.N1	10-APR-2007 18:01:51	Straylight	43.000	78	Alp Lup	2.3040	28000.	86	26720	No
236	GOM_NL__2PRFIN20070410_180327_000000432057_00113_26720_8927.N1	10-APR-2007 18:03:27	Straylight	42.500	81	Eta Cen	2.3560	28000.	85	26720	No
237	GOM_NL__2PRFIN20070410_180557_000000482057_00113_26720_8928.N1	10-APR-2007 18:05:57	Straylight	48.000	54	5The Cen	2.0550	4500.0	96	26720	No
238	GOM_NL__2PRFIN20070410_181121_000000432057_00113_26720_8929.N1	10-APR-2007 18:11:21	Twilight	43.000	106	9Bet Crv	2.6480	5600.0	86	26720	No
239	GOM_NL__2PRFIN20070410_181313_000000402057_00113_26720_8930.N1	10-APR-2007 18:13:13	Twilight	40.000	100	4Gam Crv	2.5800	13100.	80	26720	No
240	GOM_NL__2PRFIN20070410_181444_000000302057_00113_26720_8931.N1	10-APR-2007 18:14:44	Twilight	30.000	15	67Alp Vir	0.97600	28000.	60	26720	No
241	GOM_NL__2PRFIN20070410_181750_000000392057_00113_26720_8932.N1	10-APR-2007 18:17:50	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	26720	No
242	GOM_NL__2PRFIN20070410_182231_000000362057_00113_26720_8933.N1	10-APR-2007 18:22:31	Bright	36.000	62	94Bet Leo	2.1360	9700.0	72	26720	No
243	GOM_NL__2PRFIN20070410_183010_000000592057_00113_26720_8934.N1	10-APR-2007 18:30:10	Bright	59.000	152	12Alp2CVn	2.8900	11000.	118	26720	No
244	GOM_NL__2PRFIN20070410_183341_000000372057_00113_26720_8935.N1	10-APR-2007 18:33:41	Bright	36.500	87	64Gam UMa	2.4330	11000.	73	26720	No
245	GOM_NL__2PRFIN20070410_183505_000000572057_00113_26720_8936.N1	10-APR-2007 18:35:05	Bright	57.000	32	77Eps UMa	1.7630	11000.	114	26720	No
246	GOM_NL__2PRFIN20070410_184131_000000382057_00113_26720_8937.N1	10-APR-2007 18:41:31	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	26720	No
247	GOM_NL__2PRFIN20070410_184357_000000372057_00113_26720_8938.N1	10-APR-2007 18:43:57	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	26720	No
248	GOM_NL__2PRFIN20070410_185126_000000382057_00113_26720_8939.N1	10-APR-2007 18:51:26	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	26720	No
249	GOM_NL__2PRFIN20070410_190058_000000352057_00113_26720_8940.N1	10-APR-2007 19:00:58	Bright	34.500	164	44Eta Peg	2.9480	5400.0	69	26720	No
250	GOM_NL__2PRFIN20070410_190745_000000442057_00113_26720_8941.N1	10-APR-2007 19:07:45	Twilight	44.000	61	8Eps Peg	2.1000	3900.0	88	26720	No
251	GOM_NL__2PRFIN20070410_191013_000000452057_00113_26720_8942.N1	10-APR-2007 19:10:13	Dark	44.500	162	34Alp Aqr	2.9440	5350.0	89	26720	No
252	GOM_NL__2PRFIN20070410_191237_000000462057_00113_26720_8943.N1	10-APR-2007 19:12:37	Dark	46.000	154	22Bet Aqr	2.8990	5700.0	92	26720	No
253	GOM_NL__2PRFIN20070410_191505_000000452057_00113_26720_8944.N1	10-APR-2007 19:15:05	Dark	44.500	142	49Del Cap	2.8500	8900.0	89	26720	No
254	GOM_NL__2PRFIN20070410_192724_000000412057_00114_26721_8656.N1	10-APR-2007 19:27:24	Dark	40.500	45	Alp Pav	1.9400	26000.	81	26721	No
255	GOM_NL__2PRFIN20070410_193424_000000442057_00114_26721_8657.N1	10-APR-2007 19:34:24	Dark	44.000	141	Bet Ara	2.8400	4600.0	88	26721	No
256	GOM_NL__2PRFIN20070410_193655_000000402057_00114_26721_8658.N1	10-APR-2007 19:36:55	Dark	40.000	134	Bet TrA	2.8100	6600.0	80	26721	No
257	GOM_NL__2PRFIN20070410_193925_000000472057_00114_26721_8659.N1	10-APR-2007 19:39:25	Straylight	47.000	4	Alp1Cen	-0.010000	5800.0	94	26721	No
258	GOM_NL__2PRFIN20070410_194227_000000142057_00114_26721_8660.N1	10-APR-2007 19:42:27	Straylight	13.500	78	Alp Lup	2.3040	28000.	27	26721	No
259	GOM_NL__2PRFIN20070410_223617_000000442057_00115_26722_8667.N1	10-APR-2007 22:36:17	Dark	44.000	142	49Del Cap	2.8500	8900.0	88	26722	No
260	GOM_NL__2PRFIN20070410_224837_000000402057_00116_26723_9146.N1	10-APR-2007 22:48:37	Dark	40.000	45	Alp Pav	1.9400	26000.	80	26723	No
261	GOM_NL__2PRFIN20070410_225537_000000412057_00116_26723_9147.N1	10-APR-2007 22:55:37	Dark	41.000	141	Bet Ara	2.8400	4600.0	82	26723	No
262	GOM_NL__2PRFIN20070410_225807_000000392057_00116_26723_9148.N1	10-APR-2007 22:58:07	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	26723	No
263	GOM_NL__2PRFIN20070410_230037_000000442057_00116_26723_9149.N1	10-APR-2007 23:00:37	Straylight	43.500	4	Alp1Cen	-0.010000	5800.0	87	26723	No
264	GOM_NL__2PRFIN20070410_230340_000000462057_00116_26723_9150.N1	10-APR-2007 23:03:40	Straylight	46.000	78	Alp Lup	2.3040	28000.	92	26723	No
265	GOM_NL__2PRFIN20070410_230516_000000472057_00116_26723_9151.N1	10-APR-2007 23:05:16	Straylight	47.000	81	Eta Cen	2.3560	28000.	94	26723	No
266	GOM_NL__2PRFIN20070410_230746_000000502057_00116_26723_9152.N1	10-APR-2007 23:07:46	Straylight	50.000	54	5The Cen	2.0550	4500.0	100	26723	No
267	GOM_NL__2PRFIN20070410_231309_000000422057_00116_26723_9153.N1	10-APR-2007 23:13:09	Twilight	42.000	106	9Bet Crv	2.6480	5600.0	84	26723	No
268	GOM_NL__2PRFIN20070410_231501_000000402057_00116_26723_9154.N1	10-APR-2007 23:15:01	Twilight	40.000	100	4Gam Crv	2.5800	13100.	80	26723	No
269	GOM_NL__2PRFIN20070410_231632_000000372057_00116_26723_9155.N1	10-APR-2007 23:16:32	Bright	37.000	15	67Alp Vir	0.97600	28000.	74	26723	No
270	GOM_NL__2PRFIN20070410_231938_000000392057_00116_26723_9156.N1	10-APR-2007 23:19:38	Bright	39.000	121	29Gam Vir	2.7400	7200.0	78	26723	No
271	GOM_NL__2PRFIN20070410_232419_000000362057_00116_26723_9157.N1	10-APR-2007 23:24:19	Bright	36.000	62	94Bet Leo	2.1360	9700.0	72	26723	No
272	GOM_NL__2PRFIN20070410_233156_000000392057_00116_26723_9158.N1	10-APR-2007 23:31:56	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	26723	No
273	GOM_NL__2PRFIN20070410_233528_000000372057_00116_26723_9159.N1	10-APR-2007 23:35:28	Bright	36.500	87	64Gam UMa	2.4330	11000.	73	26723	No
274	GOM_NL__2PRFIN20070410_233651_000000572057_00116_26723_9160.N1	10-APR-2007 23:36:51	Bright	57.000	32	77Eps UMa	1.7630	11000.	114	26723	No
275	GOM_NL__2PRFIN20070410_234318_000000362057_00116_26723_9161.N1	10-APR-2007 23:43:18	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	26723	No
276	GOM_NL__2PRFIN20070410_234545_000000352057_00116_26723_9162.N1	10-APR-2007 23:45:45	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	26723	No
277	GOM_NL__2PRFIN20070410_235313_000000382057_00116_26723_9163.N1	10-APR-2007 23:53:13	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	26723	No

### 3. Quality information per product

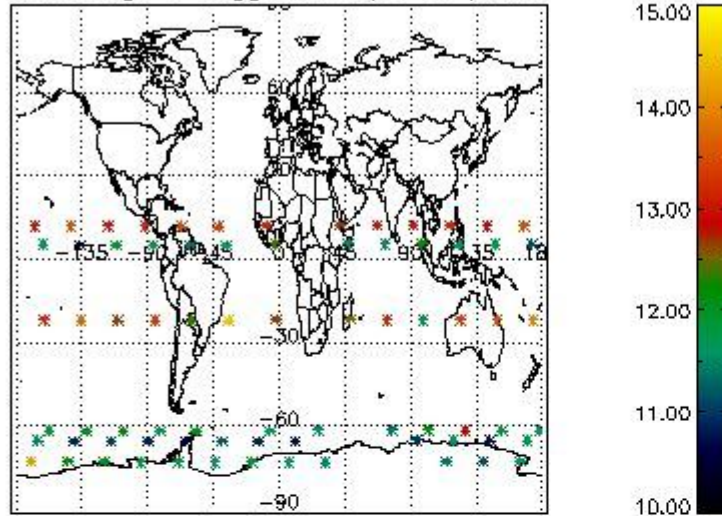
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

#### 3.1 Plot quality information per product (time dependant)

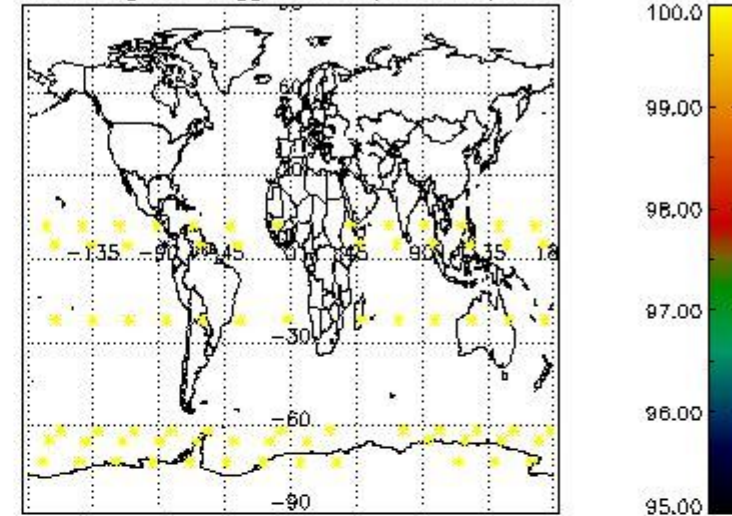


#### 3.2 Plot quality information per product (world map)

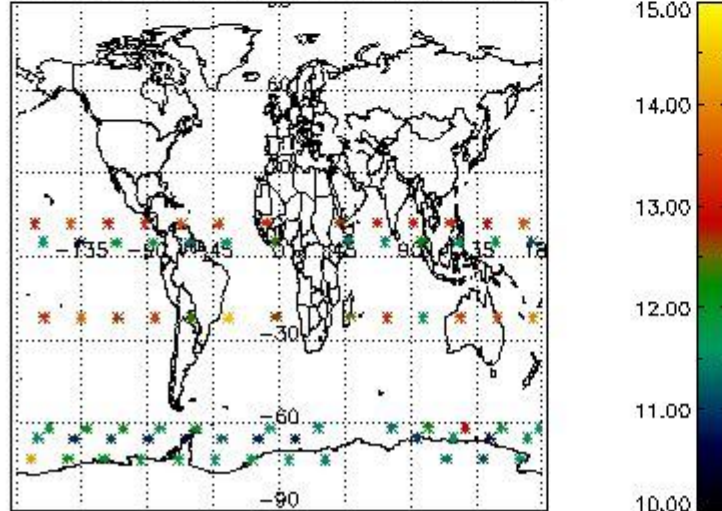
Percentage of flagged data per O3 profile



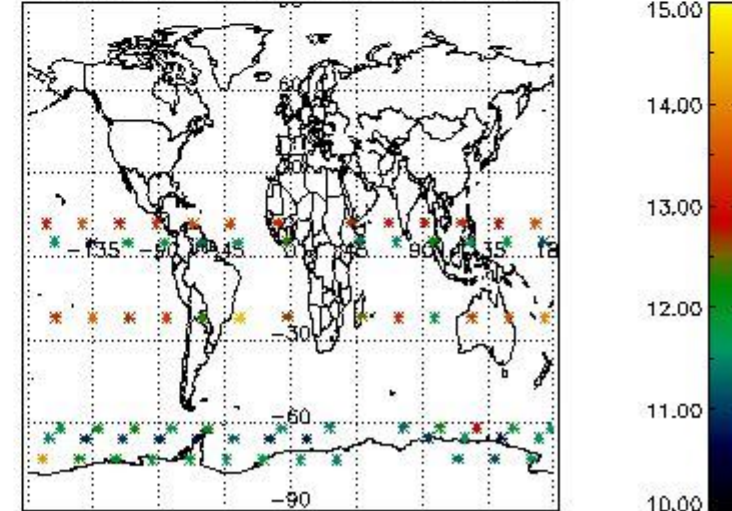
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



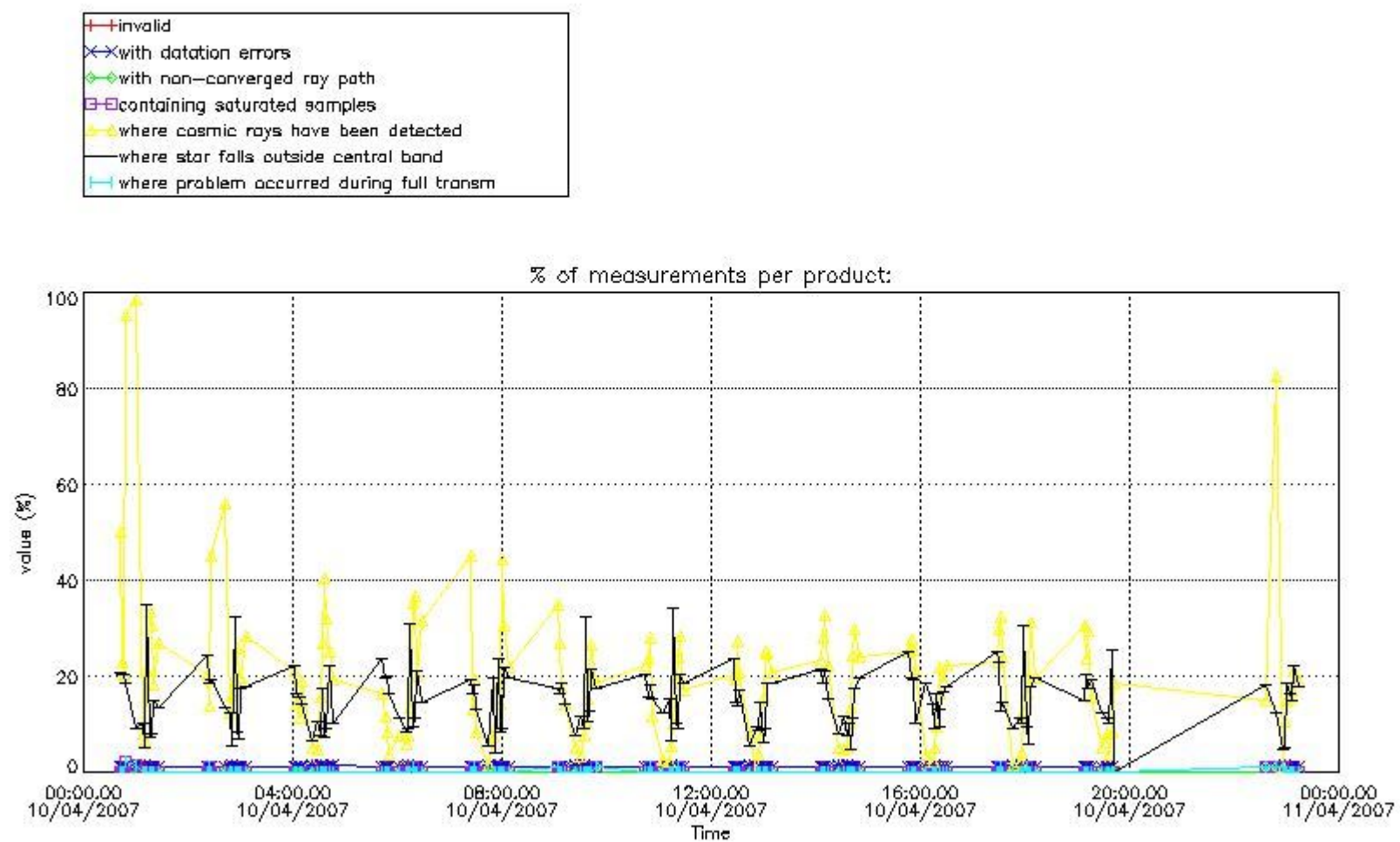
#### 4. Level 1 quality information per product

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.

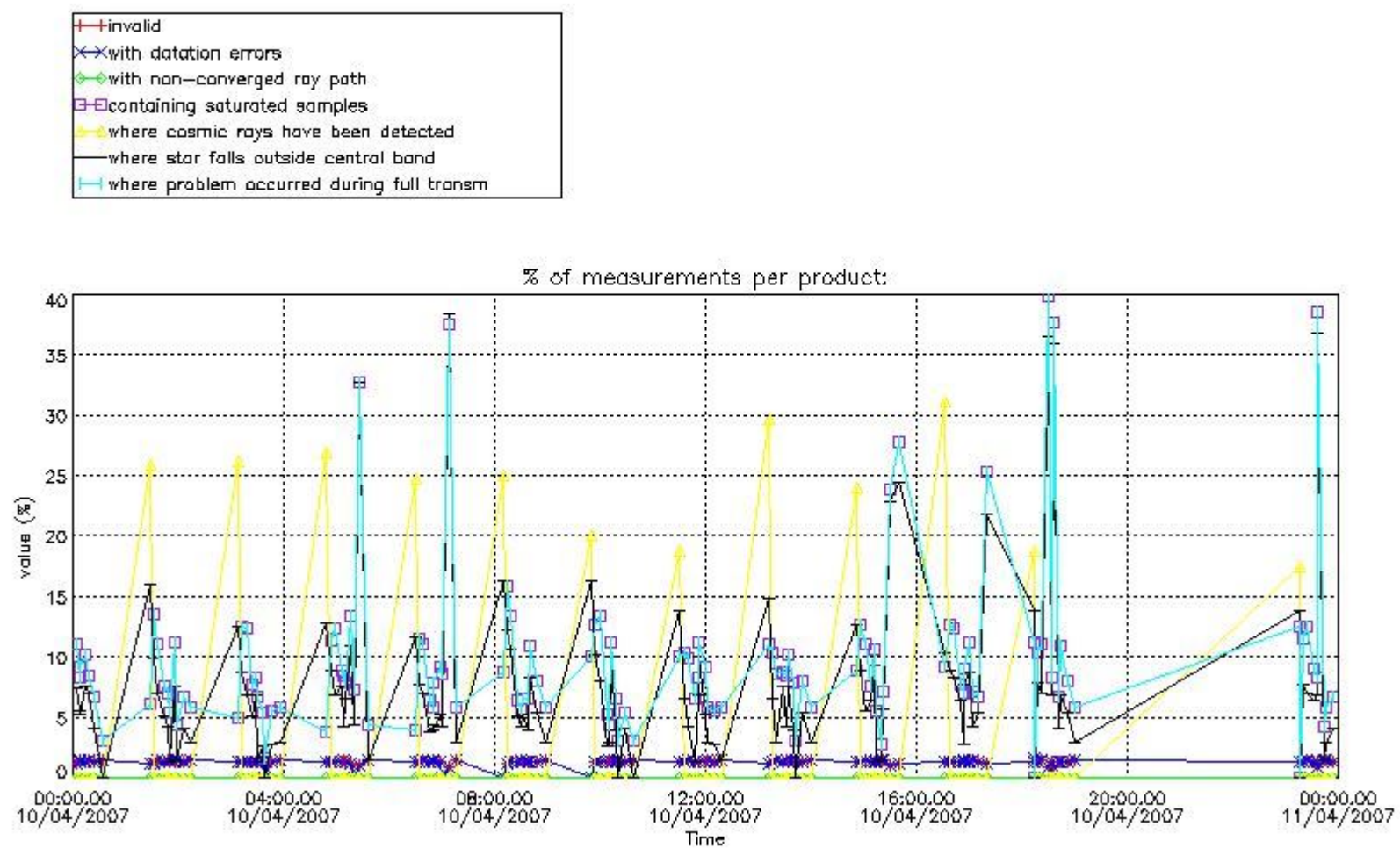
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

##### 4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes





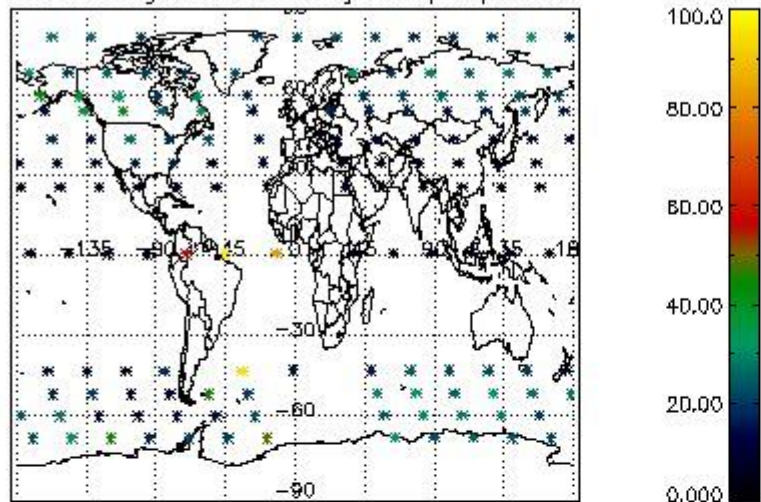
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



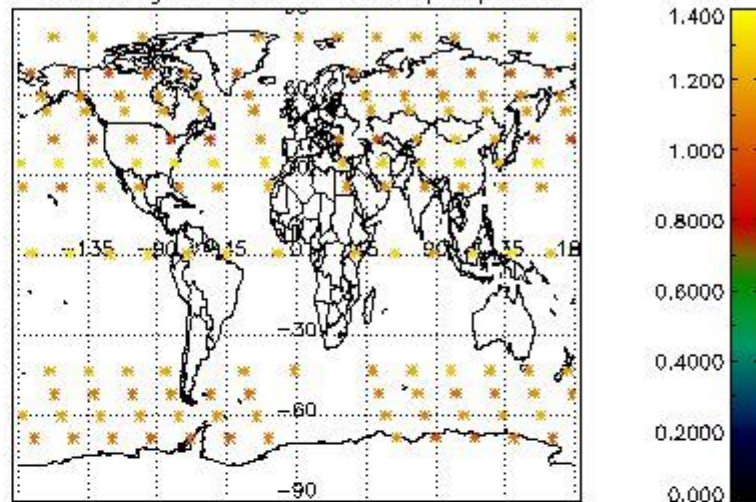
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

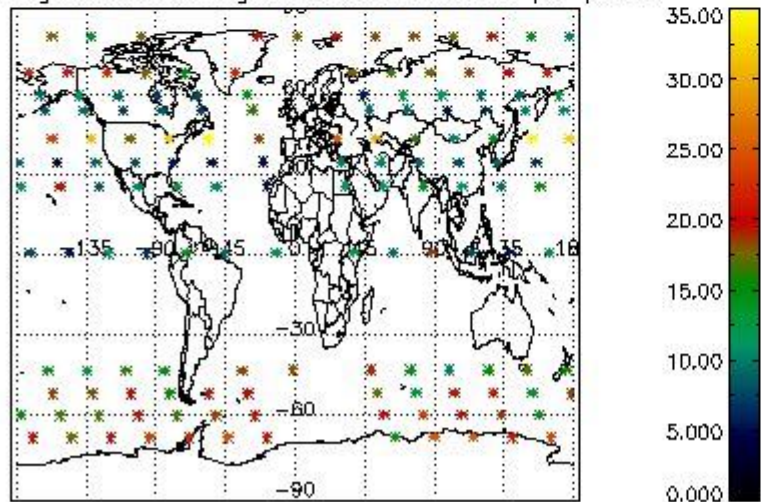
Percentage of cosmic ray hits per profile



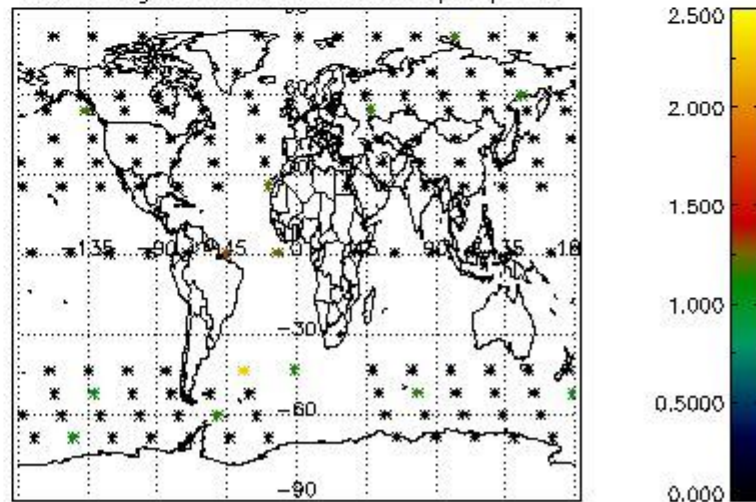
Percentage of datation errors per profile



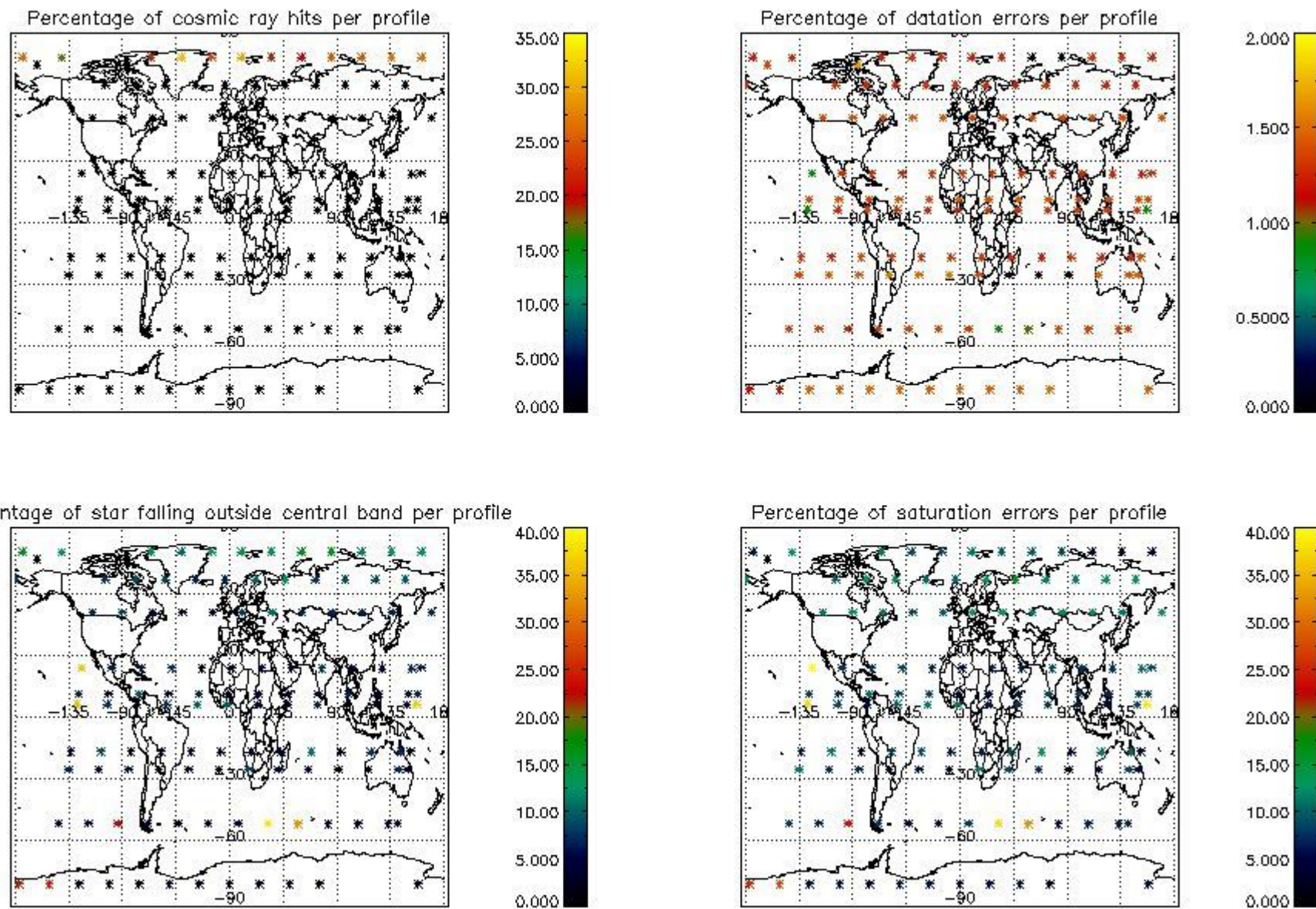
Percentage of star falling outside central band per profile



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

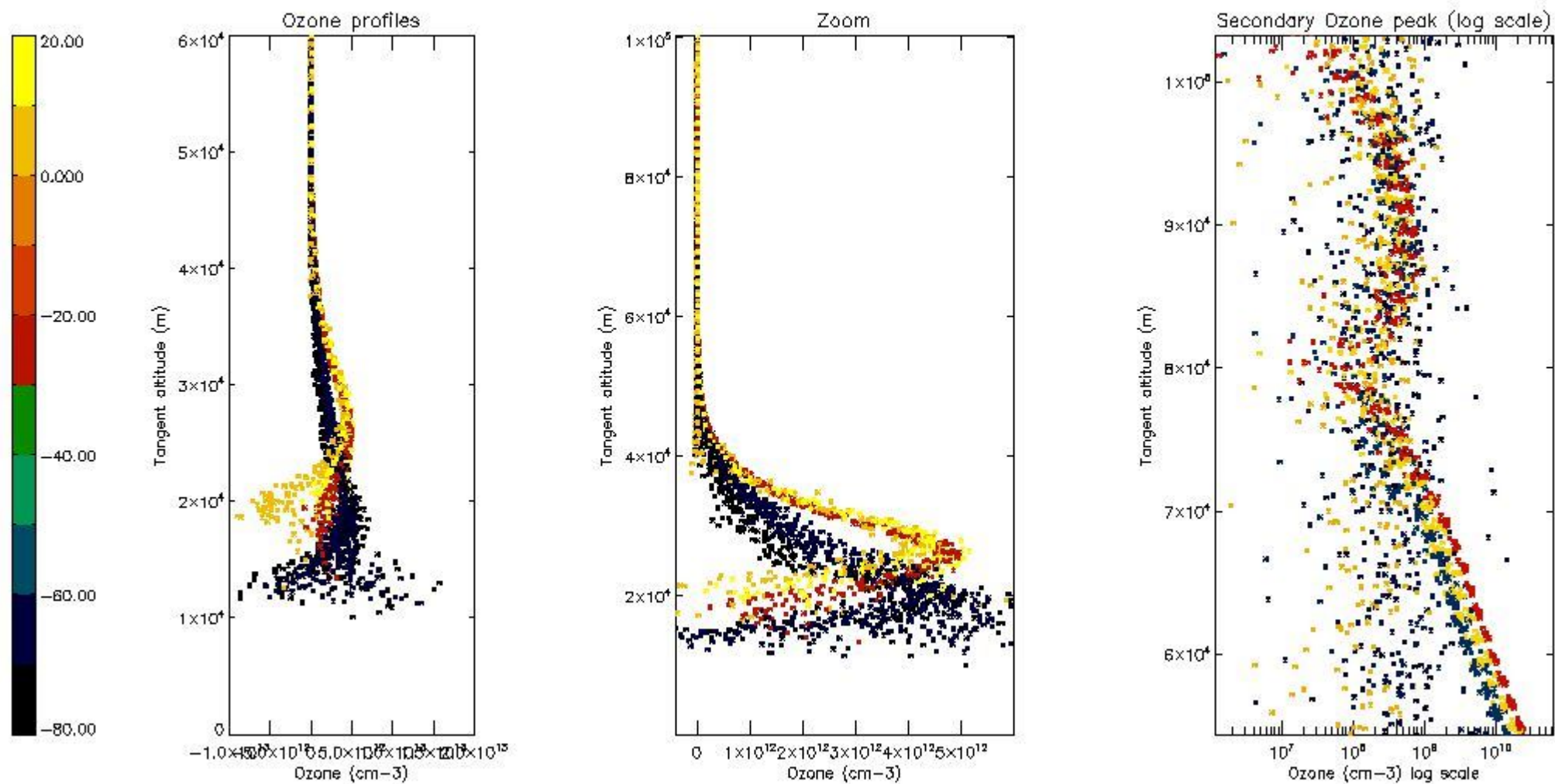
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	28
STD < 20	11

STD < 10	6
STD < 5	2

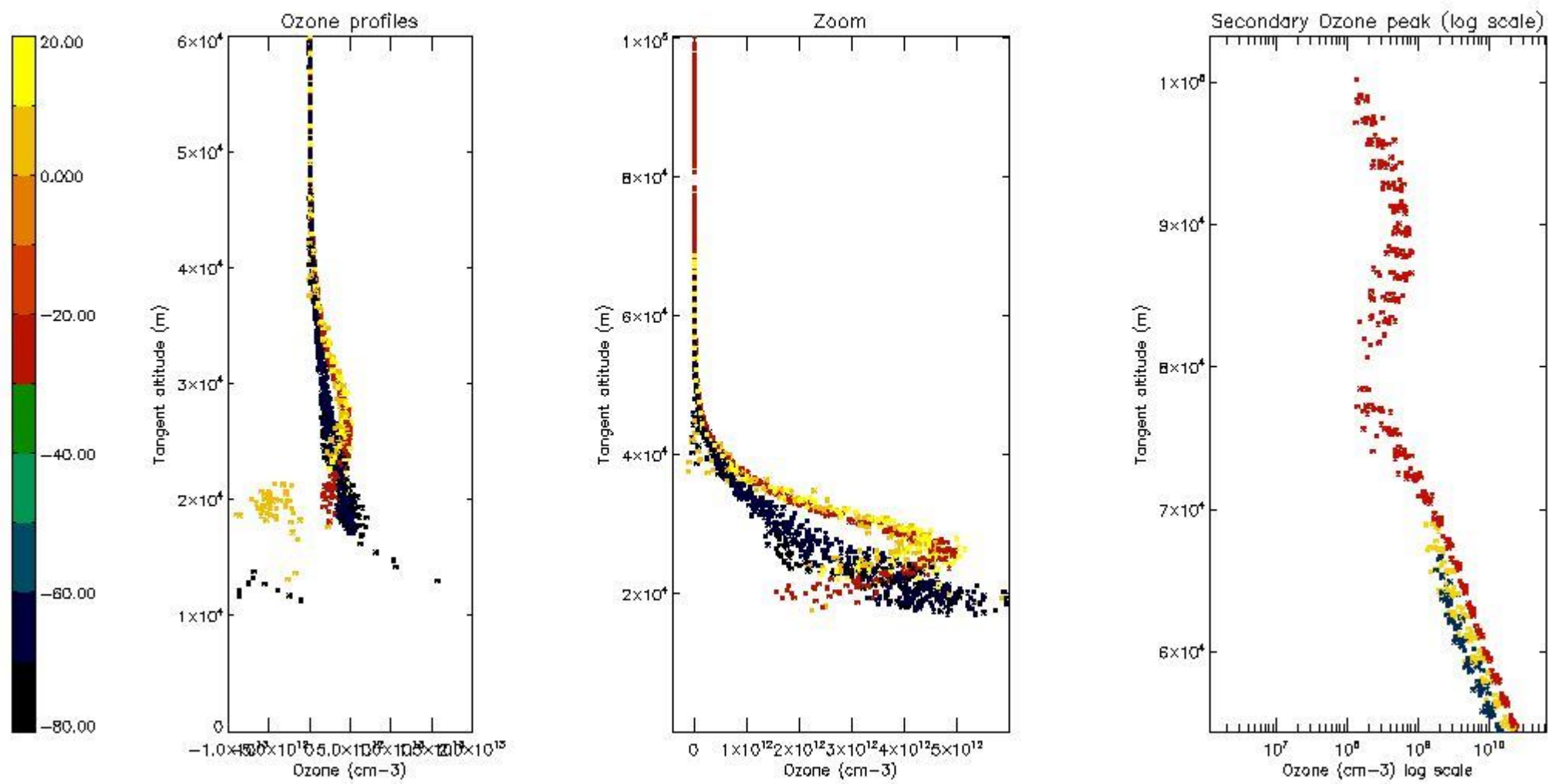
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



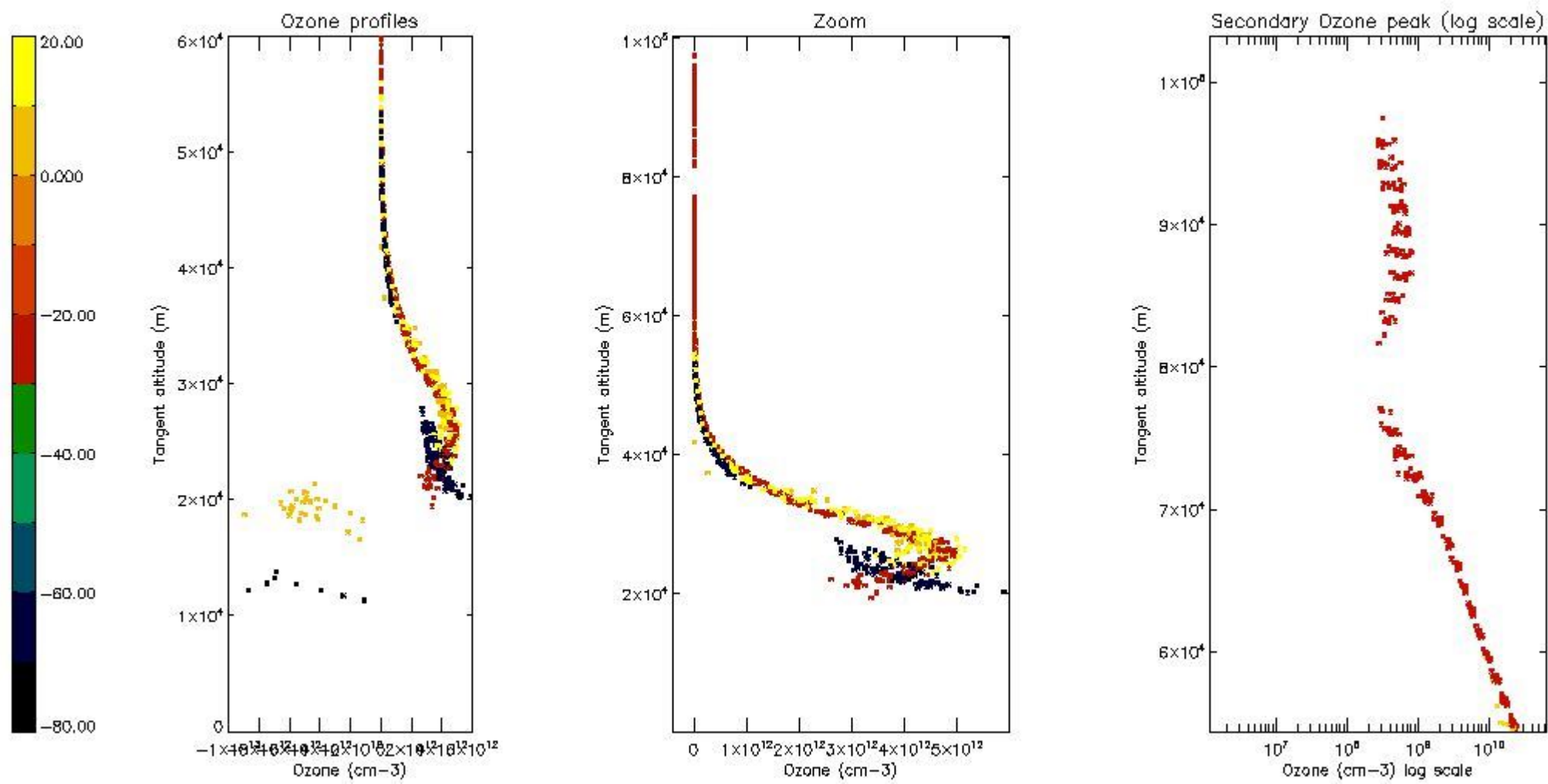
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



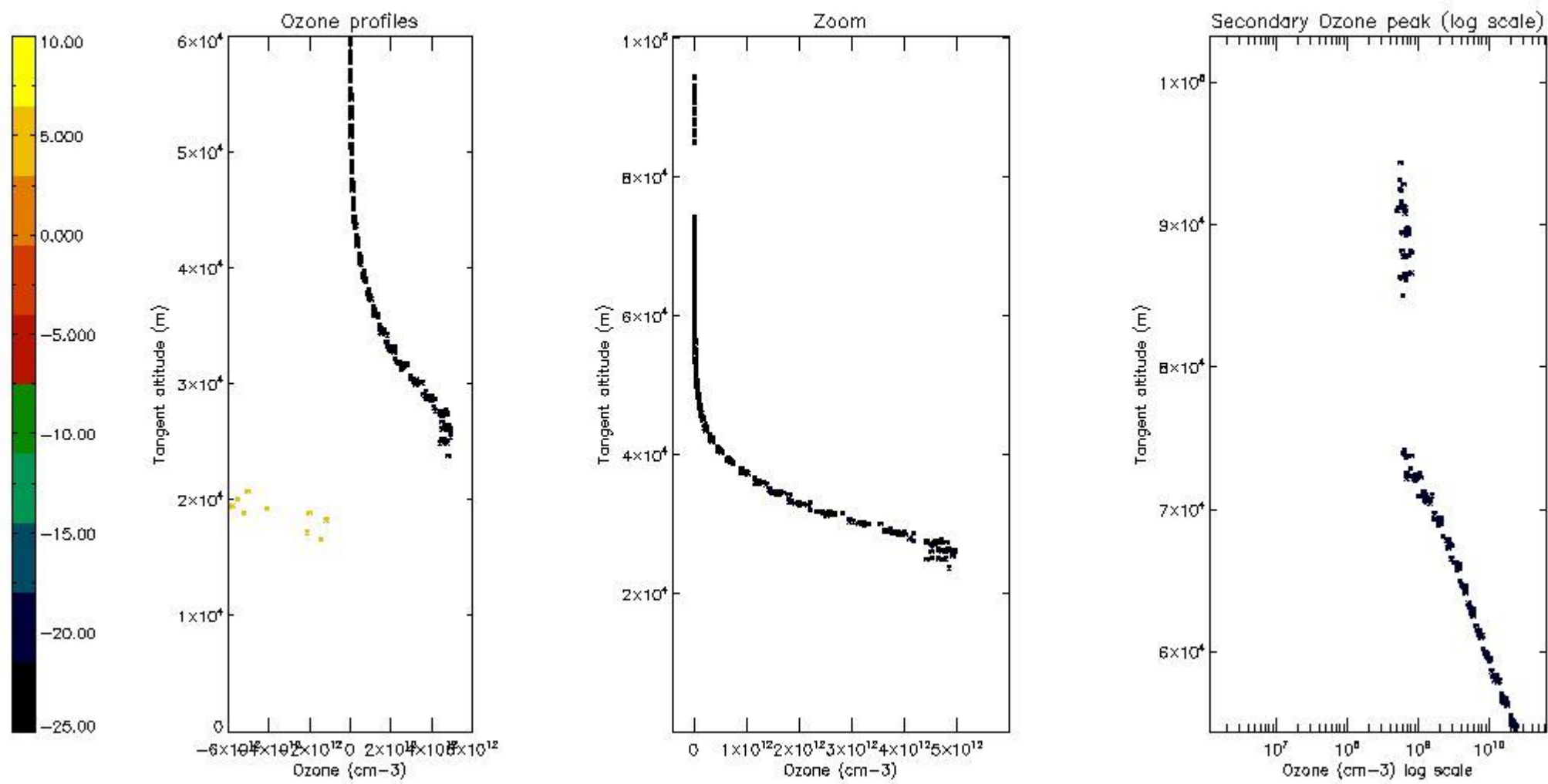
*5.4 Plot ozone profiles where  $STD < 10\%$  (dark without errors)*

The colorbar represents the latitude.



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

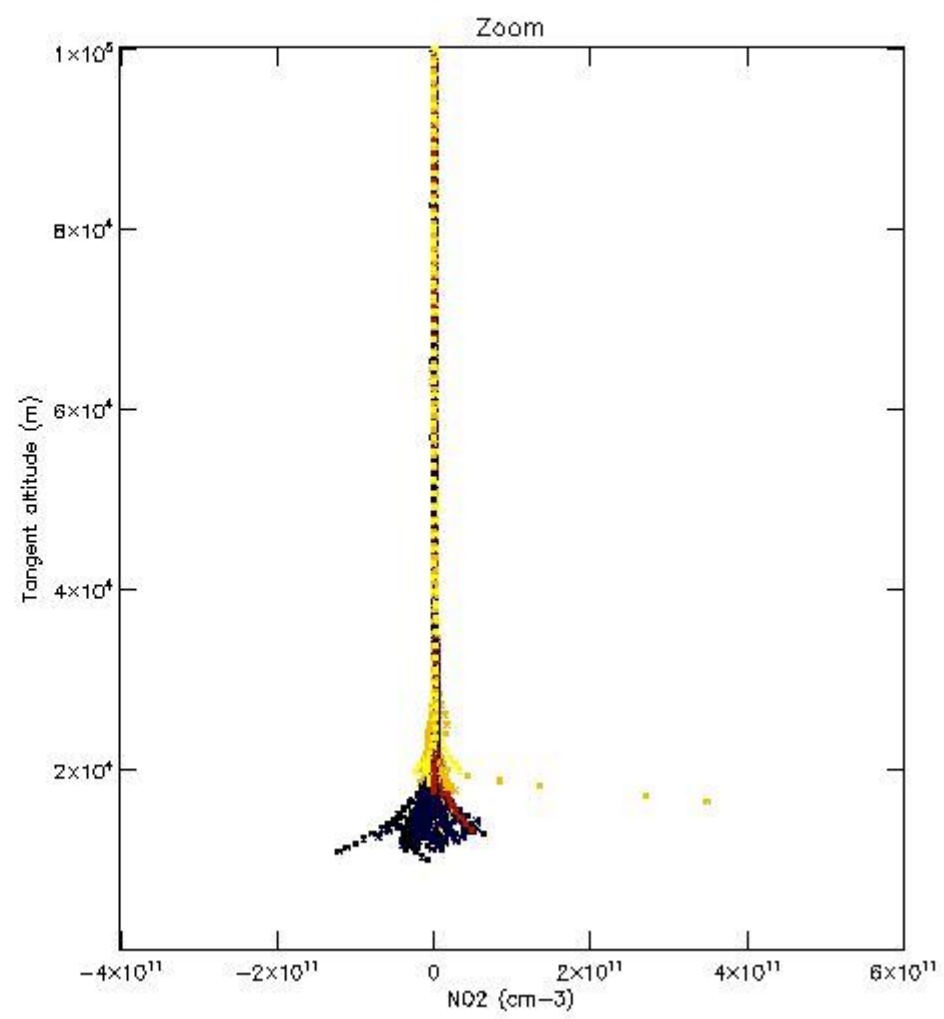
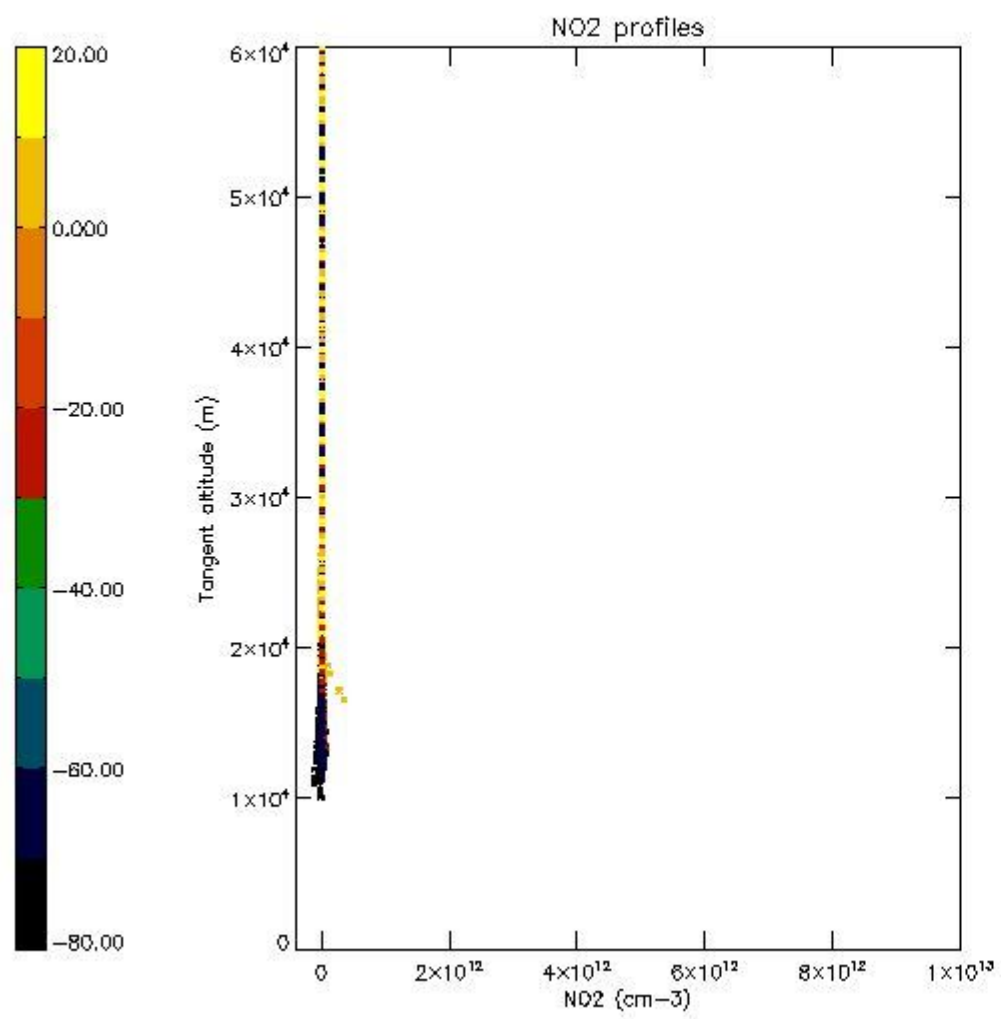
The colorbar represents the latitude.



*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

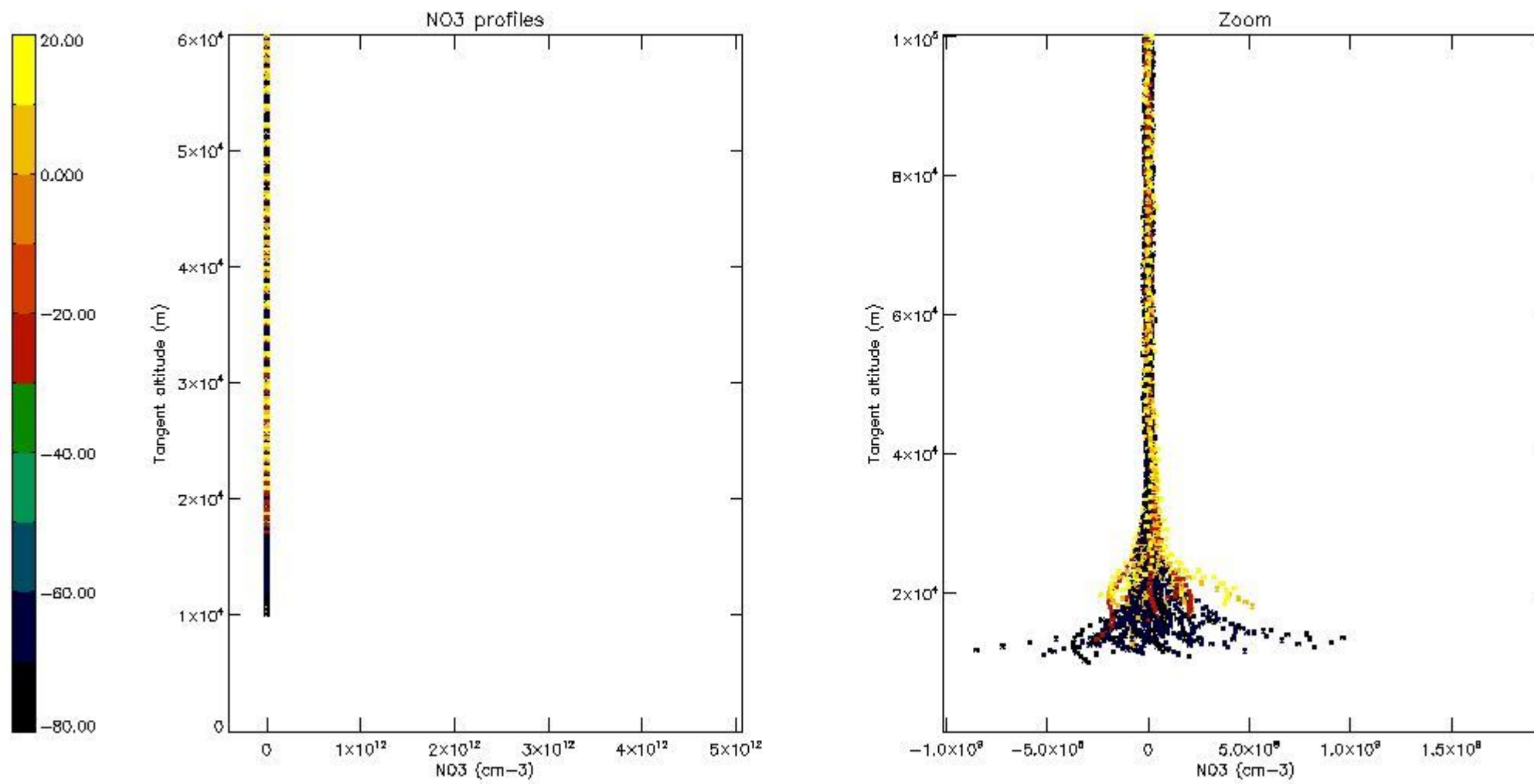
The colorbar represents the latitude.





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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	10-APR-2007 00:03:38
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	10-APR-2007 00:03:38
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	10-APR-2007 00:03:38

# GOMOS Level 2 Daily Report

## SUMMARY

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### [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	22APR2013 18:16:07
Data source version	GOMOS/6.01
Start time of products	10-04-2007 (10APR2007 00:00:00)
Stop time of products	11-04-2007 (11APR2007 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	277
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__2PRFIN20070410_000338_000000412057_00102_26709_8455.N1	10-APR-2007 00:03:38	Bright	40.500	152	12Alp2CVn	2.8900	11000.	81	26709	No
2	GOM_NL__2PRFIN20070410_000707_000000362057_00102_26709_8456.N1	10-APR-2007 00:07:07	Bright	36.000	87	64Gam UMa	2.4330	11000.	72	26709	No
3	GOM_NL__2PRFIN20070410_000833_000000392057_00102_26709_8457.N1	10-APR-2007 00:08:33	Bright	38.500	32	77Eps UMa	1.7630	11000.	77	26709	No
4	GOM_NL__2PRFIN20070410_001459_000000402057_00102_26709_8458.N1	10-APR-2007 00:14:59	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	26709	No
5	GOM_NL__2PRFIN20070410_001721_000000362057_00102_26709_8459.N1	10-APR-2007 00:17:21	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	26709	No
6	GOM_NL__2PRFIN20070410_002451_000000372057_00102_26709_8460.N1	10-APR-2007 00:24:51	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	26709	No
7	GOM_NL__2PRFIN20070410_003421_000000332057_00102_26709_8461.N1	10-APR-2007 00:34:21	Bright	33.000	164	44Eta Peg	2.9480	5400.0	66	26709	No
8	GOM_NL__2PRFIN20070410_004105_000000462057_00102_26709_8462.N1	10-APR-2007 00:41:05	Twilight	46.000	61	8Eps Peg	2.1000	3900.0	92	26709	No
9	GOM_NL__2PRFIN20070410_004334_000000442057_00102_26709_8463.N1	10-APR-2007 00:43:34	Dark	44.000	162	34Alp Aqr	2.9440	5350.0	88	26709	No
10	GOM_NL__2PRFIN20070410_004556_000000472057_00102_26709_8464.N1	10-APR-2007 00:45:56	Dark	47.000	154	22Bet Aqr	2.8990	5700.0	94	26709	No
11	GOM_NL__2PRFIN20070410_004824_000000442057_00102_26709_8465.N1	10-APR-2007 00:48:24	Dark	43.500	142	49Del Cap	2.8500	8900.0	87	26709	No
12	GOM_NL__2PRFIN20070410_010044_000000392057_00103_26710_8460.N1	10-APR-2007 01:00:44	Dark	38.500	45	Alp Pav	1.9400	26000.	77	26710	No
13	GOM_NL__2PRFIN20070410_010741_000000442057_00103_26710_8461.N1	10-APR-2007 01:07:41	Dark	43.500	141	Bet Ara	2.8400	4600.0	87	26710	No
14	GOM_NL__2PRFIN20070410_011014_000000382057_00103_26710_8462.N1	10-APR-2007 01:10:14	Dark	38.000	134	Bet TrA	2.8100	6600.0	76	26710	No
15	GOM_NL__2PRFIN20070410_011245_000000552057_00103_26710_8463.N1	10-APR-2007 01:12:45	Straylight	54.500	4	Alp1Cen	-0.010000	5800.0	109	26710	No
16	GOM_NL__2PRFIN20070410_011546_000000422057_00103_26710_8464.N1	10-APR-2007 01:15:46	Straylight	42.000	78	Alp Lup	2.3040	28000.	84	26710	No
17	GOM_NL__2PRFIN20070410_011723_000000442057_00103_26710_8465.N1	10-APR-2007 01:17:23	Straylight	44.000	81	Eta Cen	2.3560	28000.	88	26710	No
18	GOM_NL__2PRFIN20070410_011953_000000472057_00103_26710_8466.N1	10-APR-2007 01:19:53	Straylight	47.000	54	5The Cen	2.0550	4500.0	94	26710	No
19	GOM_NL__2PRFIN20070410_012519_000000412057_00103_26710_8467.N1	10-APR-2007 01:25:19	Twilight	41.000	106	9Bet Crv	2.6480	5600.0	82	26710	No
20	GOM_NL__2PRFIN20070410_012711_000000412057_00103_26710_8468.N1	10-APR-2007 01:27:11	Twilight	40.500	100	4Gam Crv	2.5800	13100.	81	26710	No
21	GOM_NL__2PRFIN20070410_013151_000000412057_00103_26710_8469.N1	10-APR-2007 01:31:51	Bright	40.500	121	29Gam Vir	2.7400	7200.0	81	26710	No
22	GOM_NL__2PRFIN20070410_013631_000000362057_00103_26710_8470.N1	10-APR-2007 01:36:31	Bright	36.000	62	94Bet Leo	2.1360	9700.0	72	26710	No
23	GOM_NL__2PRFIN20070410_014414_000000402057_00103_26710_8471.N1	10-APR-2007 01:44:14	Bright	39.500	152	12Alp2CVn	2.8900	11000.	79	26710	No
24	GOM_NL__2PRFIN20070410_014743_000000362057_00103_26710_8472.N1	10-APR-2007 01:47:43	Bright	35.500	87	64Gam UMa	2.4330	11000.	71	26710	No
25	GOM_NL__2PRFIN20070410_014908_000000372057_00103_26710_8473.N1	10-APR-2007 01:49:08	Bright	37.000	32	77Eps UMa	1.7630	11000.	74	26710	No
26	GOM_NL__2PRFIN20070410_015534_000000402057_00103_26710_8474.N1	10-APR-2007 01:55:34	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	26710	No
27	GOM_NL__2PRFIN20070410_015757_000000342057_00103_26710_8475.N1	10-APR-2007 01:57:57	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	26710	No
28	GOM_NL__2PRFIN20070410_020527_000000372057_00103_26710_8476.N1	10-APR-2007 02:05:27	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	26710	No
29	GOM_NL__2PRFIN20070410_021457_000000352057_00103_26710_8477.N1	10-APR-2007 02:14:57	Bright	34.500	164	44Eta Peg	2.9480	5400.0	69	26710	No
30	GOM_NL__2PRFIN20070410_022142_000000492057_00103_26710_8478.N1	10-APR-2007 02:21:42	Twilight	49.000	61	8Eps Peg	2.1000	3900.0	98	26710	No
31	GOM_NL__2PRFIN20070410_022410_000000442057_00103_26710_8479.N1	10-APR-2007 02:24:10	Dark	43.500	162	34Alp Aqr	2.9440	5350.0	87	26710	No
32	GOM_NL__2PRFIN20070410_022632_000000472057_00103_26710_8480.N1	10-APR-2007 02:26:32	Dark	46.500	154	22Bet Aqr	2.8990	5700.0	93	26710	No
33	GOM_NL__2PRFIN20070410_024120_000000412057_00104_26711_8471.N1	10-APR-2007 02:41:20	Dark	41.000	45	Alp Pav	1.9400	26000.	82	26711	No
34	GOM_NL__2PRFIN20070410_024817_000000452057_00104_26711_8472.N1	10-APR-2007 02:48:17	Dark	44.500	141	Bet Ara	2.8400	4600.0	89	26711	No
35	GOM_NL__2PRFIN20070410_025050_000000382057_00104_26711_8473.N1	10-APR-2007 02:50:50	Dark	37.500	134	Bet TrA	2.8100	6600.0	75	26711	No
36	GOM_NL__2PRFIN20070410_025321_000000532057_00104_26711_8474.N1	10-APR-2007 02:53:21	Straylight	52.500	4	Alp1Cen	-0.010000	5800.0	105	26711	No
37	GOM_NL__2PRFIN20070410_025623_000000432057_00104_26711_8475.N1	10-APR-2007 02:56:23	Straylight	42.500	78	Alp Lup	2.3040	28000.	85	26711	No
38	GOM_NL__2PRFIN20070410_025759_000000442057_00104_26711_8476.N1	10-APR-2007 02:57:59	Straylight	43.500	81	Eta Cen	2.3560	28000.	87	26711	No
39	GOM_NL__2PRFIN20070410_030029_000000492057_00104_26711_8477.N1	10-APR-2007 03:00:29	Straylight	48.500	54	5The Cen	2.0550	4500.0	97	26711	No
40	GOM_NL__2PRFIN20070410_030556_000000432057_00104_26711_8478.N1	10-APR-2007 03:05:56	Twilight	42.500	106	9Bet Crv	2.6480	5600.0	85	26711	No
41	GOM_NL__2PRFIN20070410_030747_000000402057_00104_26711_8479.N1	10-APR-2007 03:07:47	Twilight	40.000	100	4Gam Crv	2.5800	13100.	80	26711	No
42	GOM_NL__2PRFIN20070410_031226_000000402057_00104_26711_8480.N1	10-APR-2007 03:12:26	Bright	40.000	121	29Gam Vir	2.7400	7200.0	80	26711	No







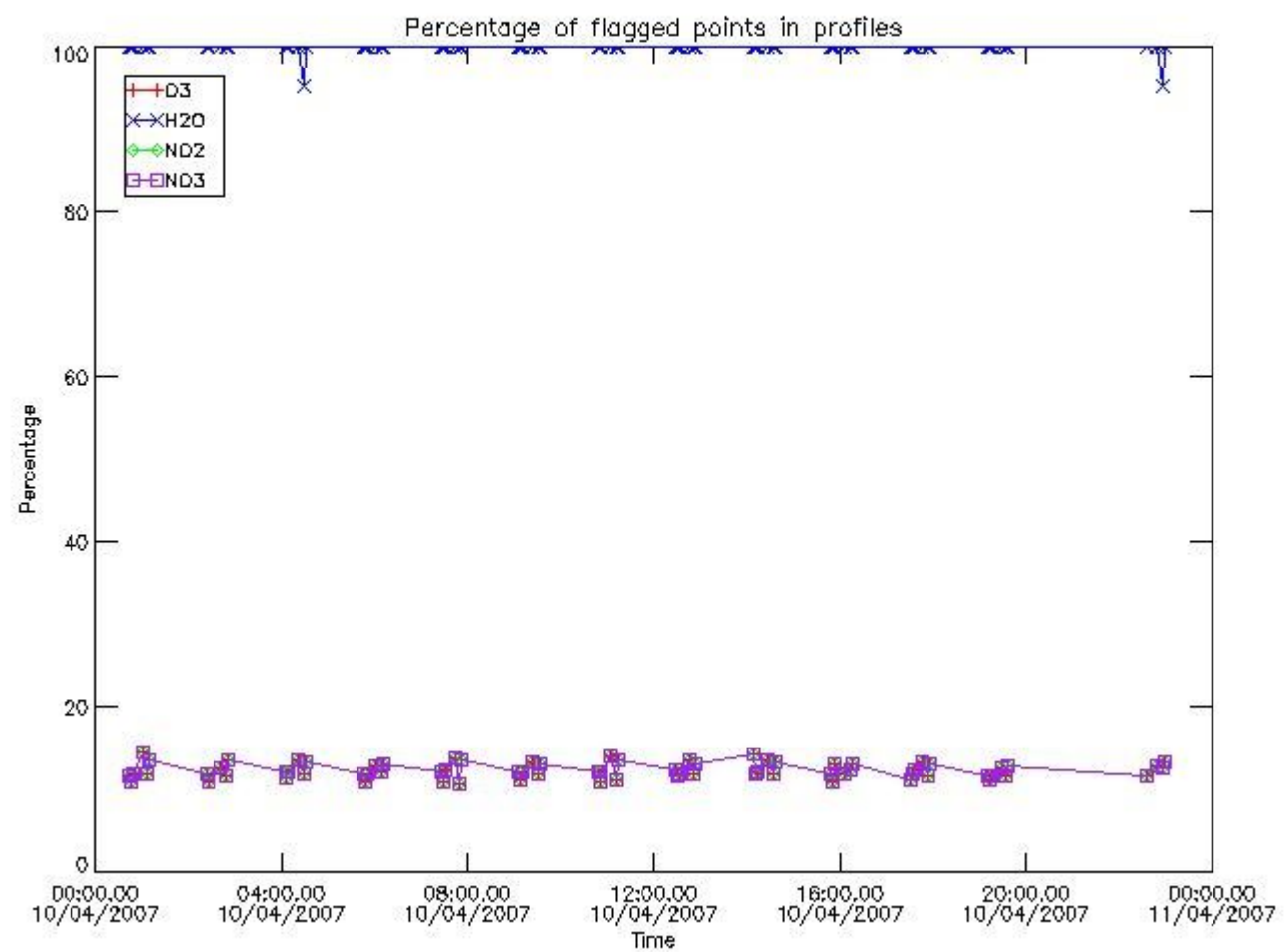




### 3. Quality information per product

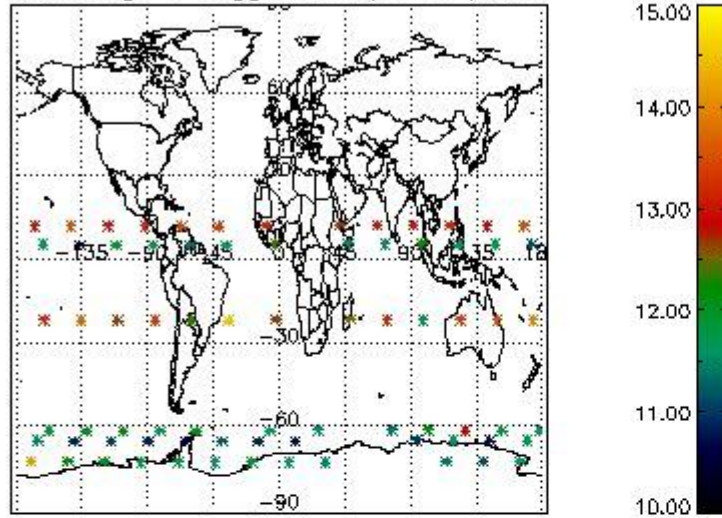
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

#### 3.1 Plot quality information per product (time dependant)

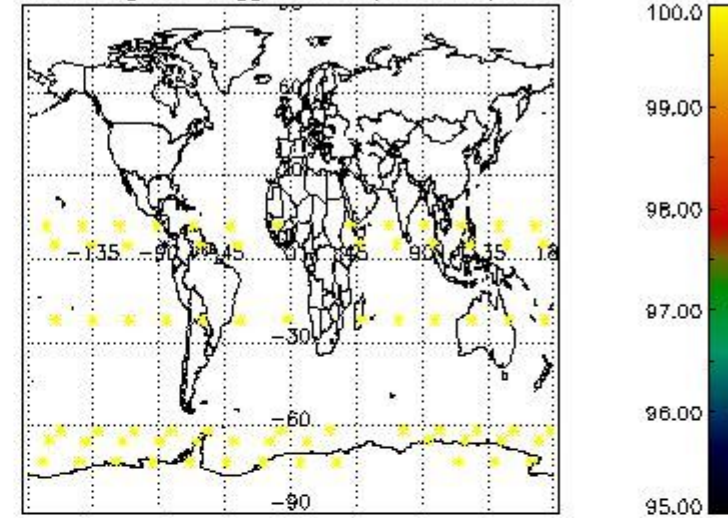


#### 3.2 Plot quality information per product (world map)

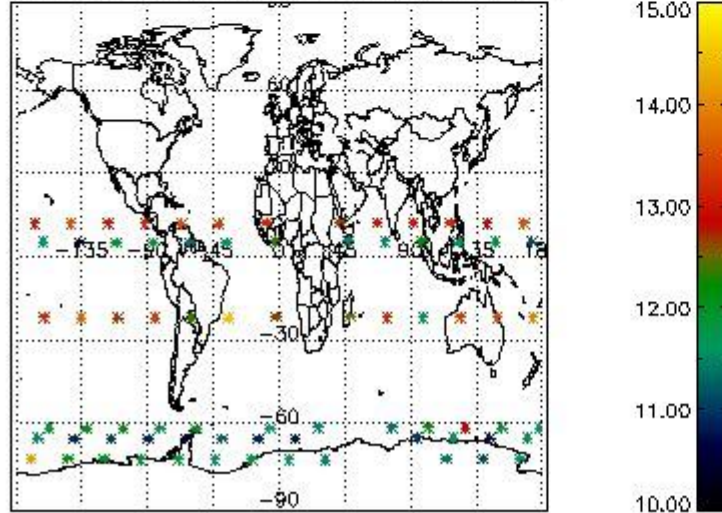
Percentage of flagged data per O3 profile



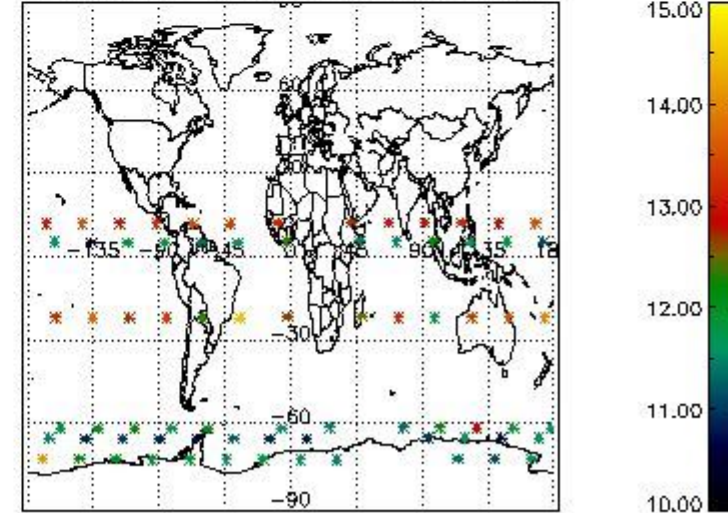
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

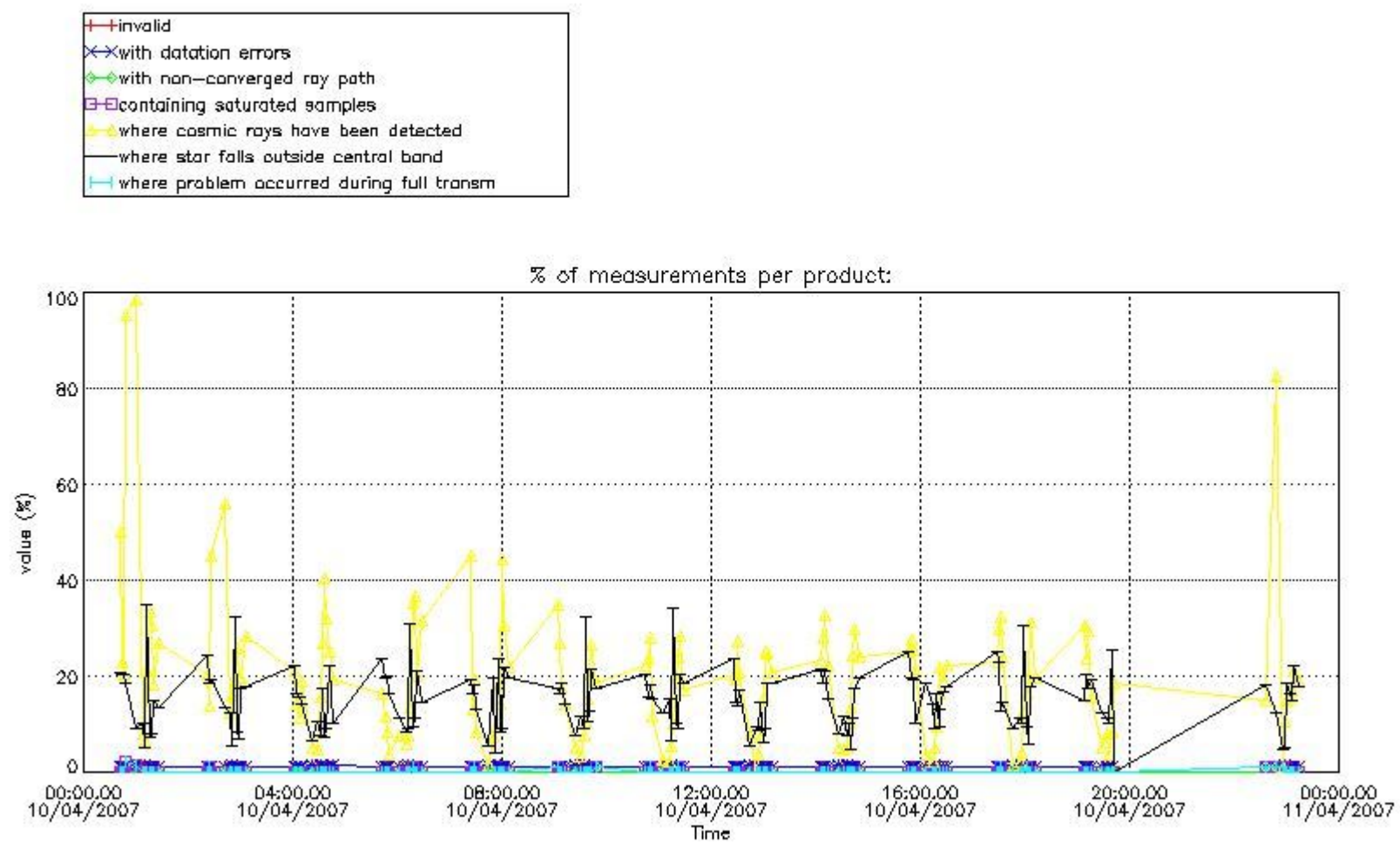


#### 4. Level 1 quality information per product

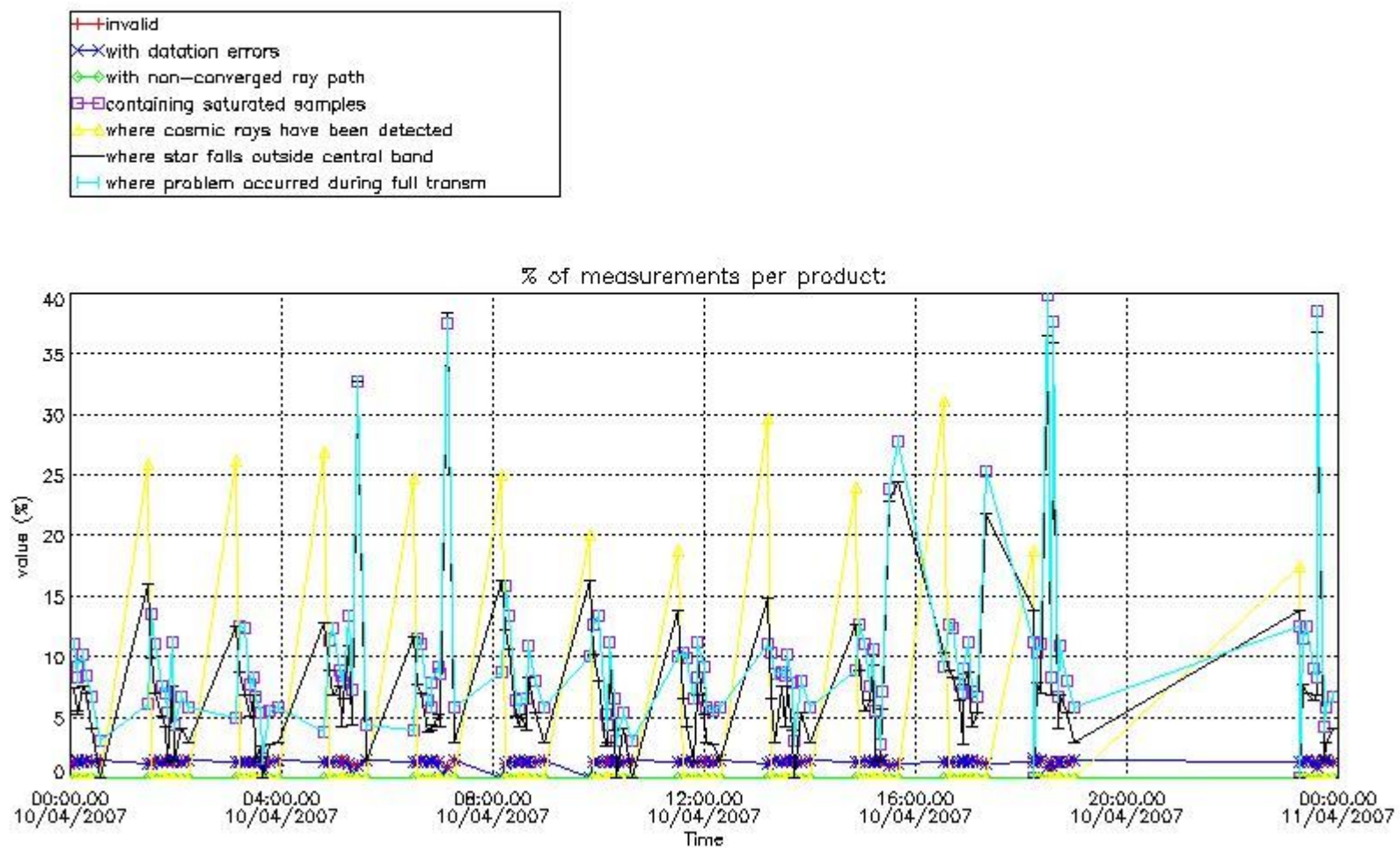
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



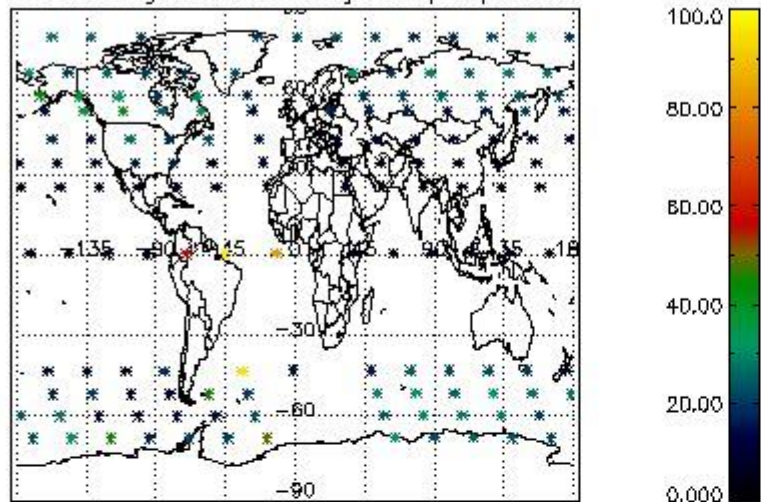
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



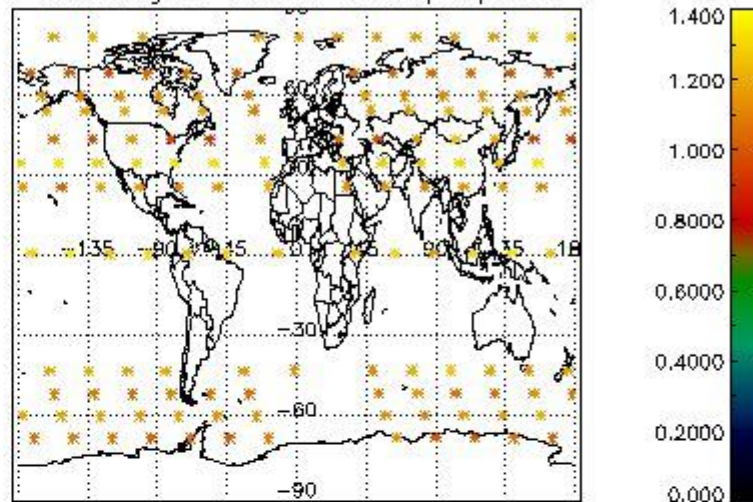
*4.2 Plot quality information per product coming from level 1b processing (world map)*

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

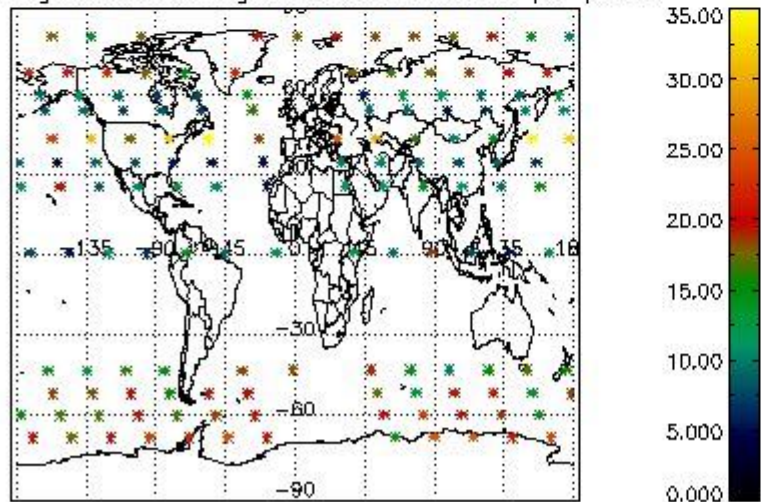
Percentage of cosmic ray hits per profile



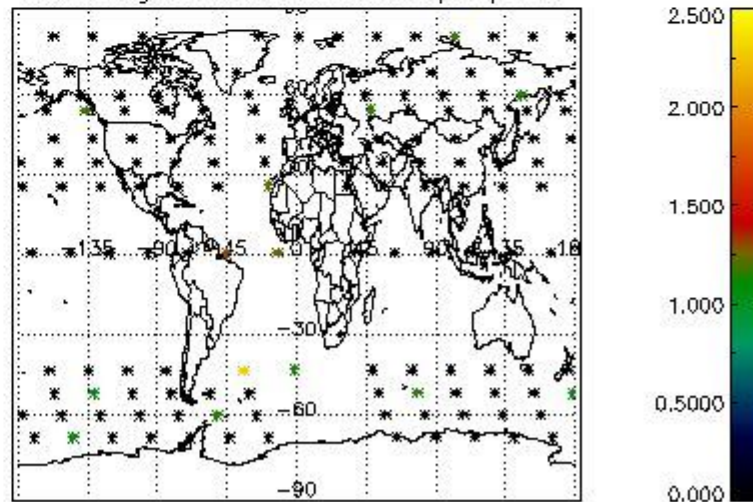
Percentage of datation errors per profile



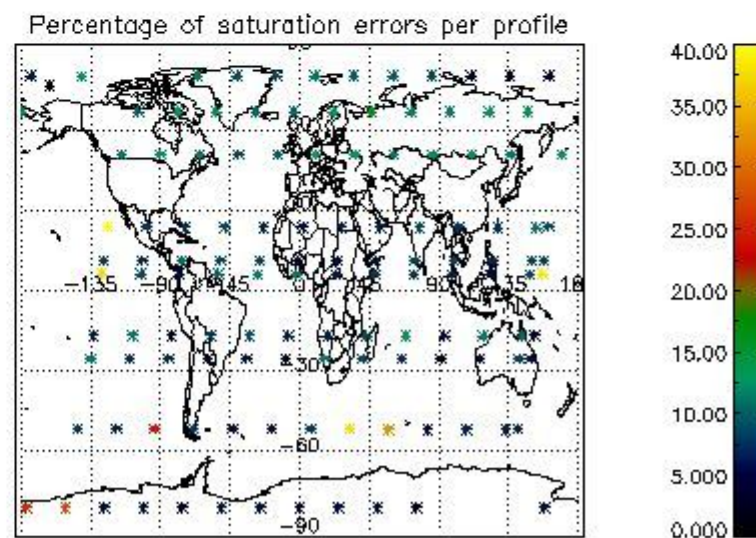
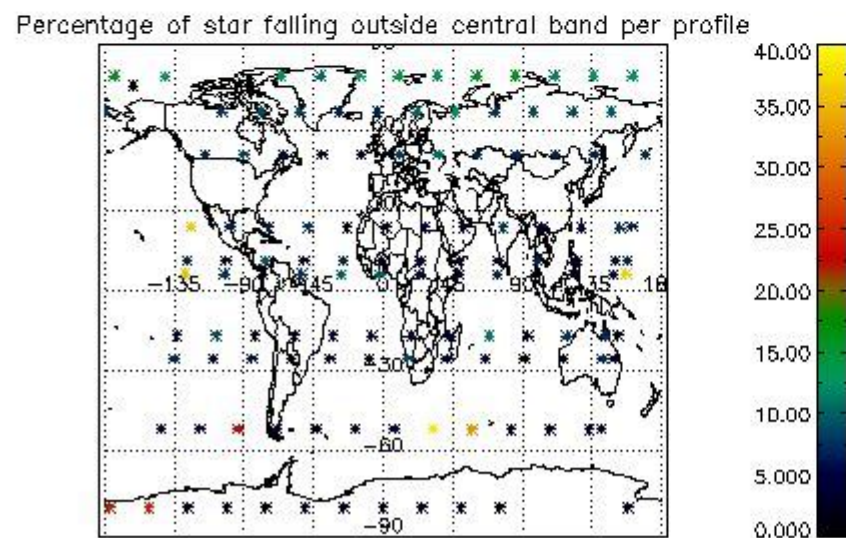
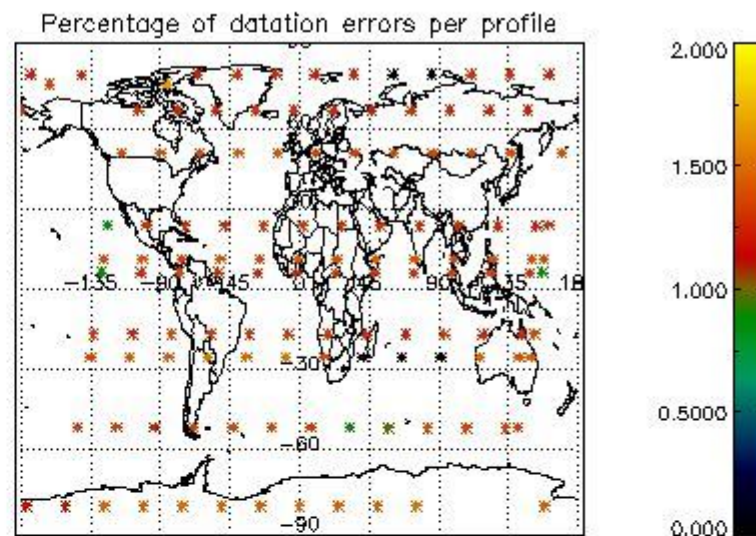
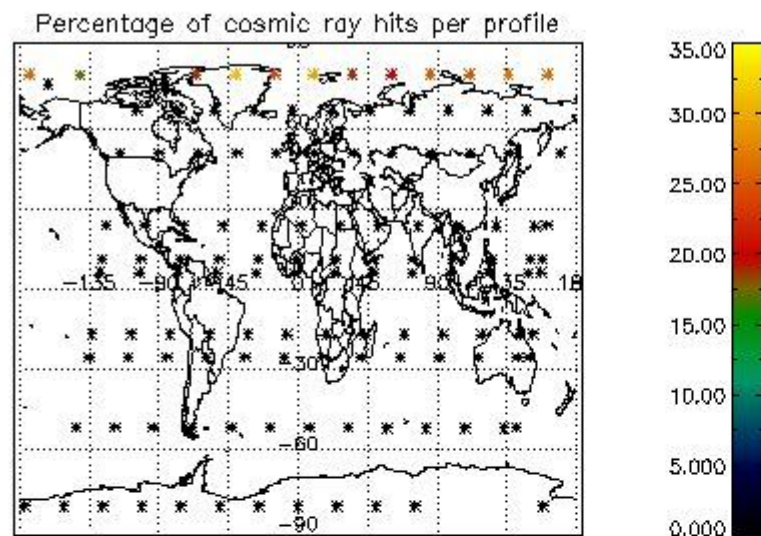
Percentage of star falling outside central band per profile



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

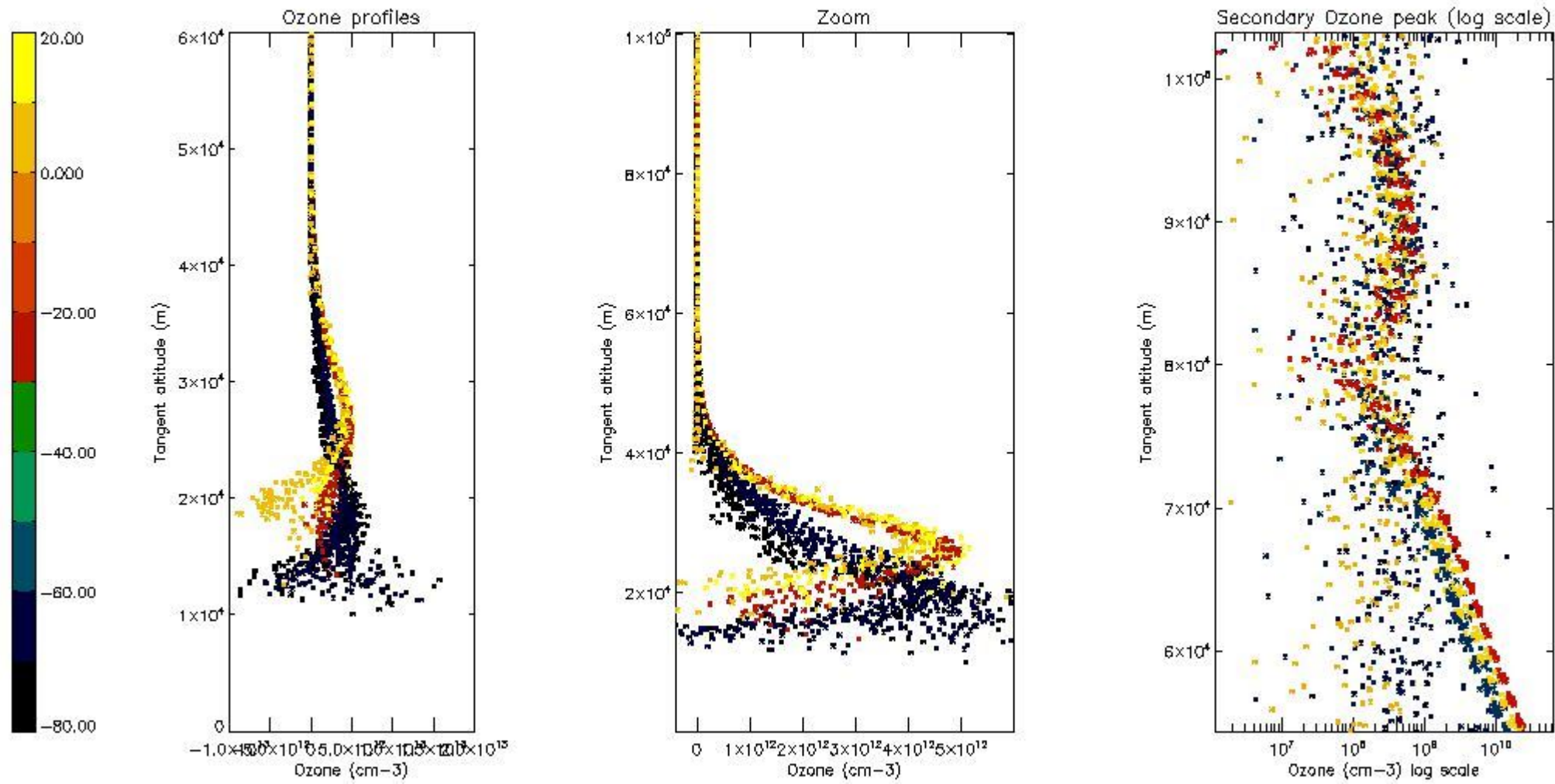
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	28
STD < 20	11

STD < 10	6
STD < 5	2

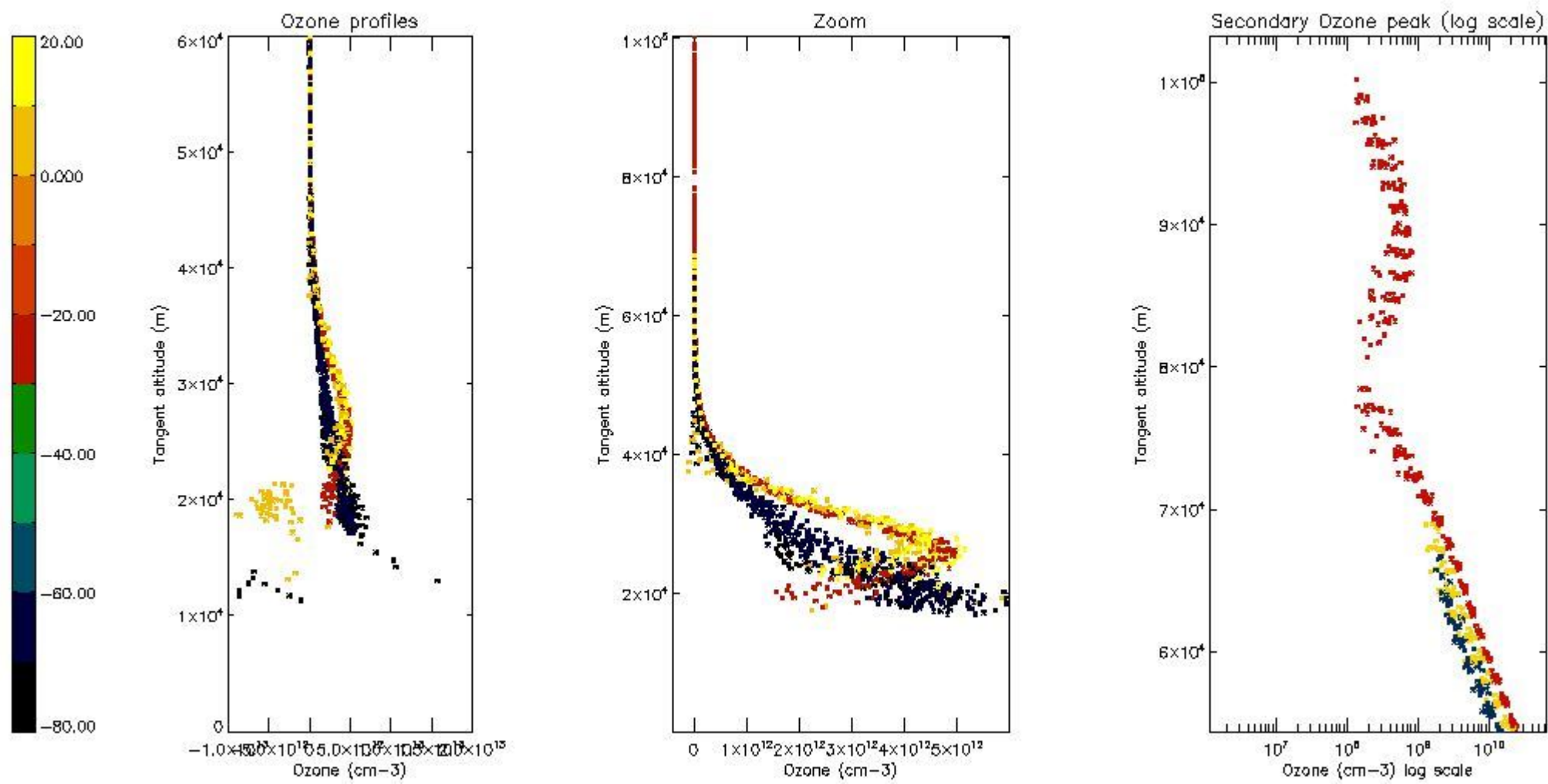
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

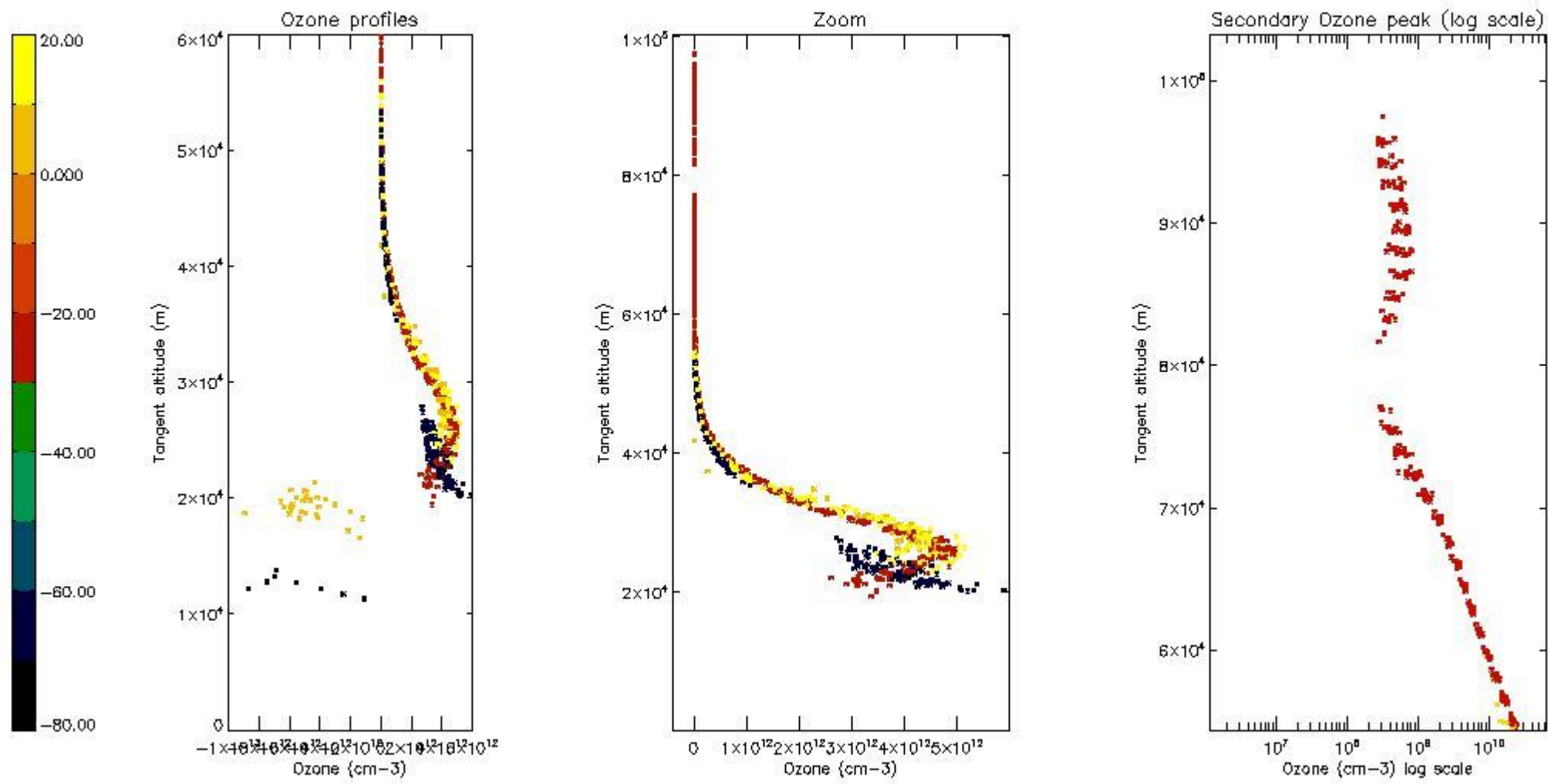
The colorbar represents the latitude.



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

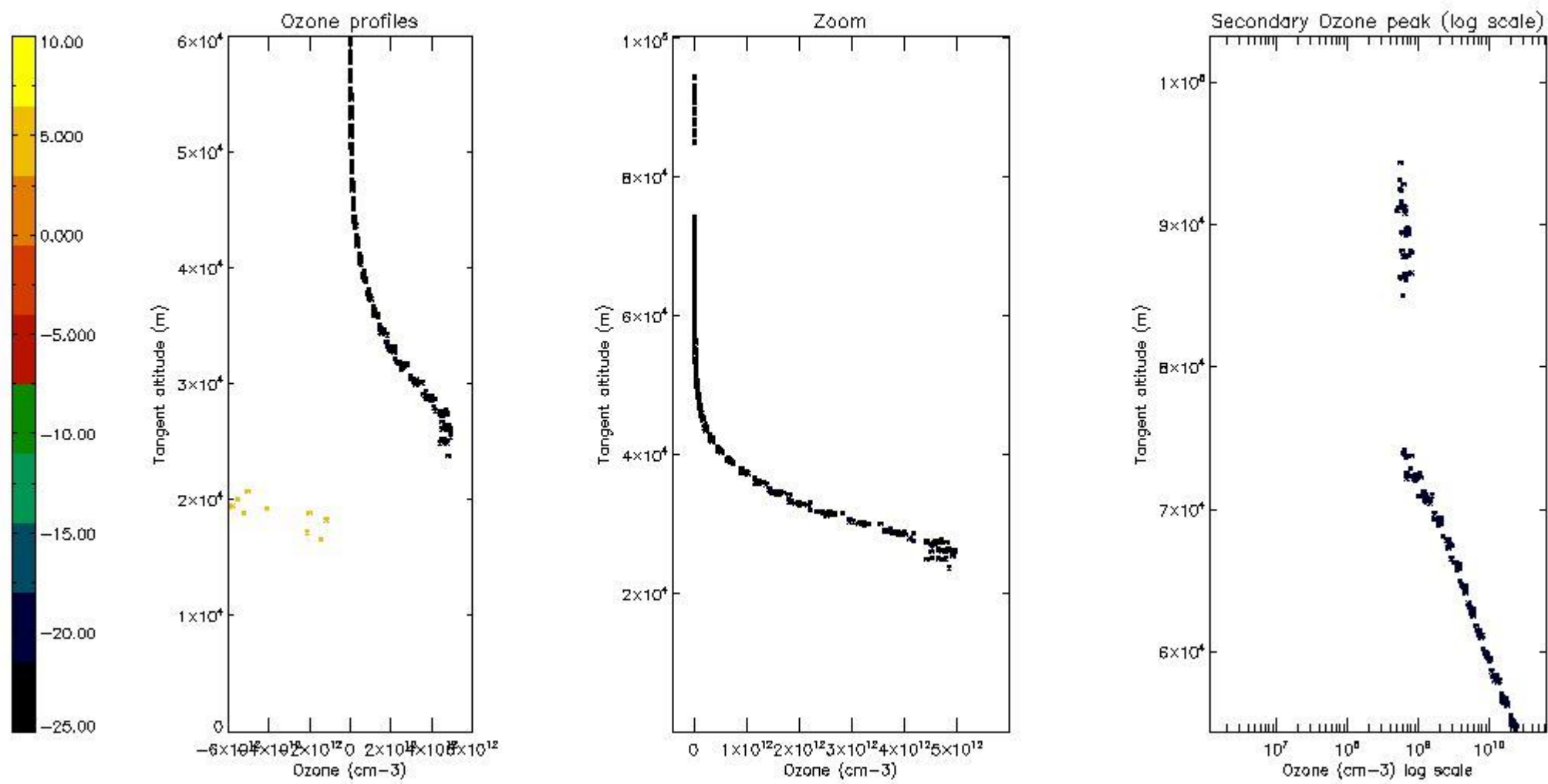
The colorbar represents the latitude.





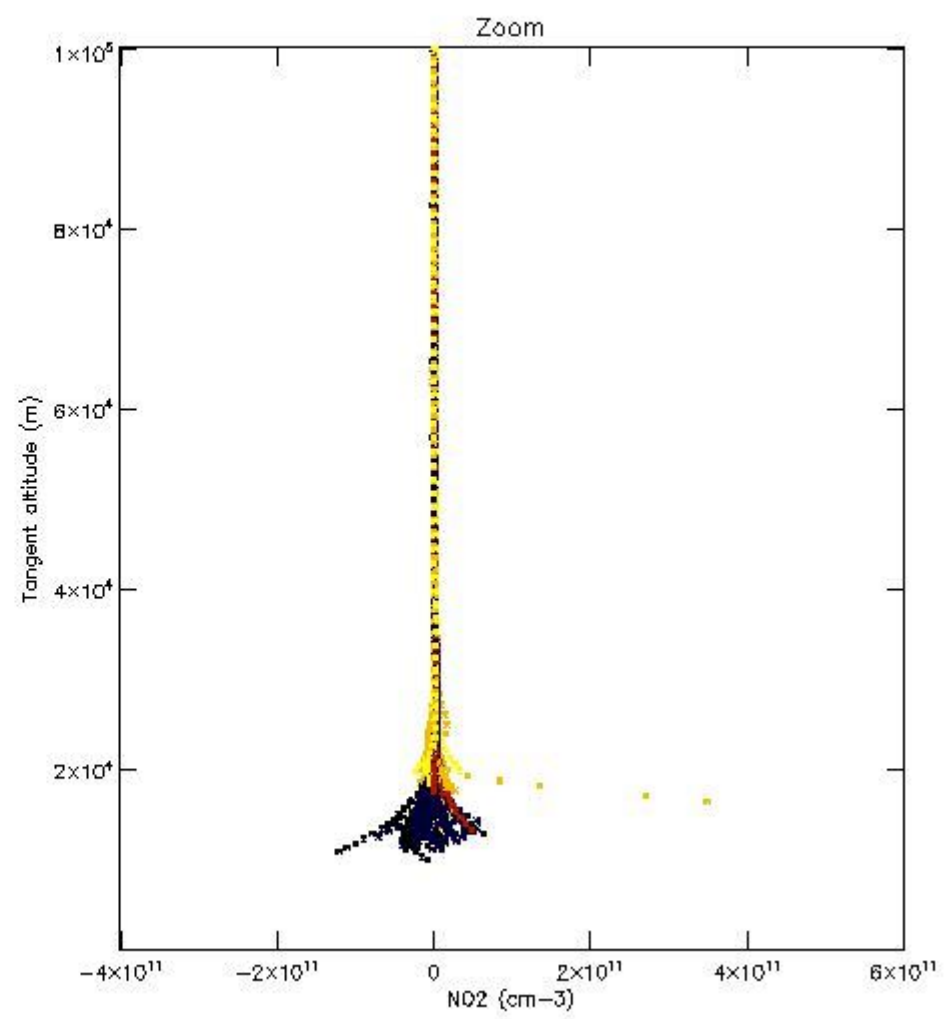
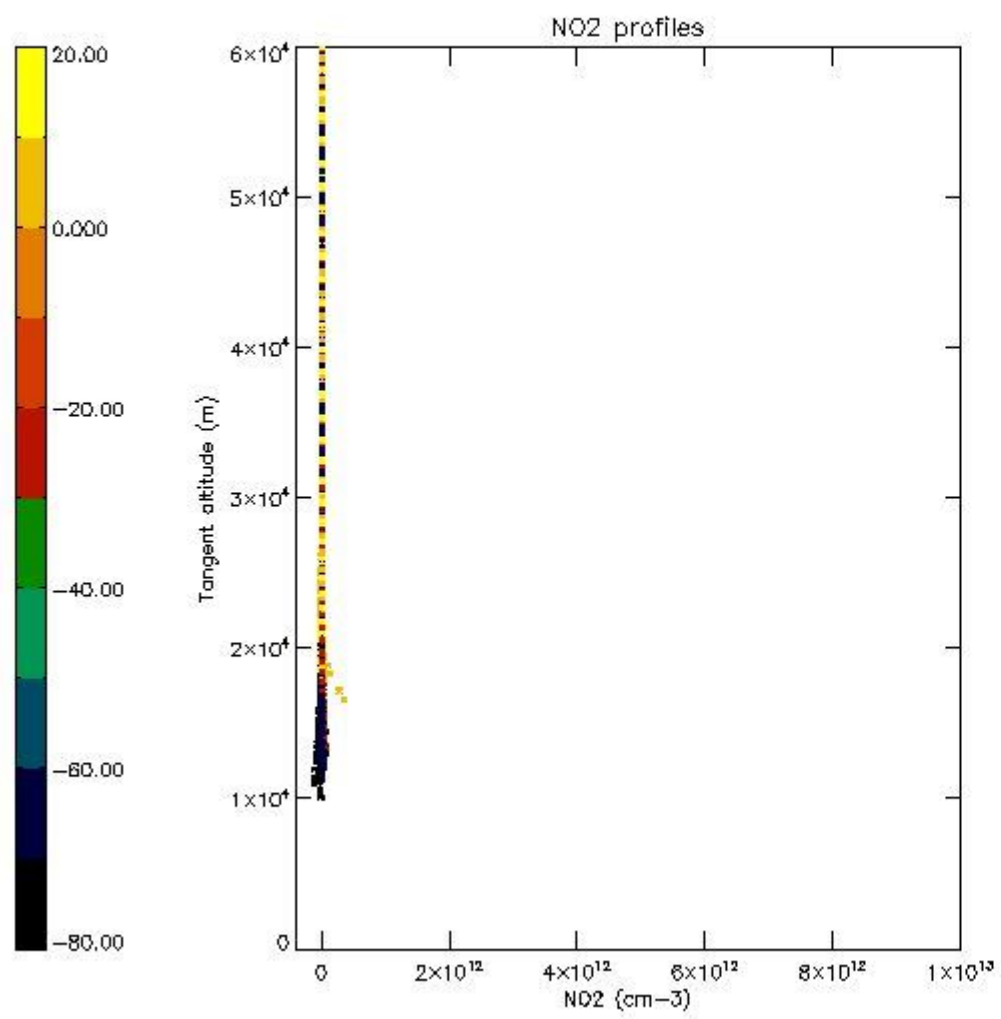
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



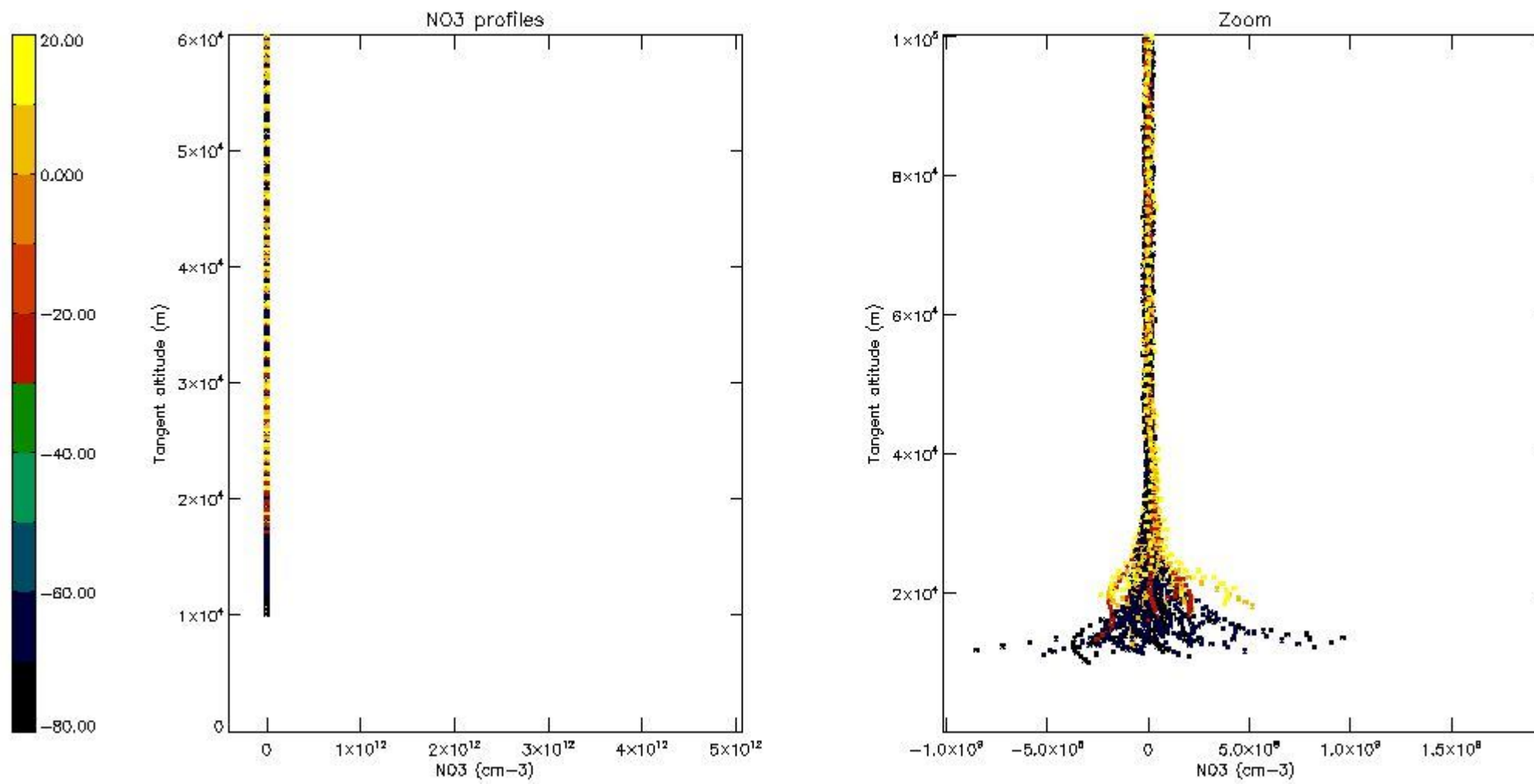
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

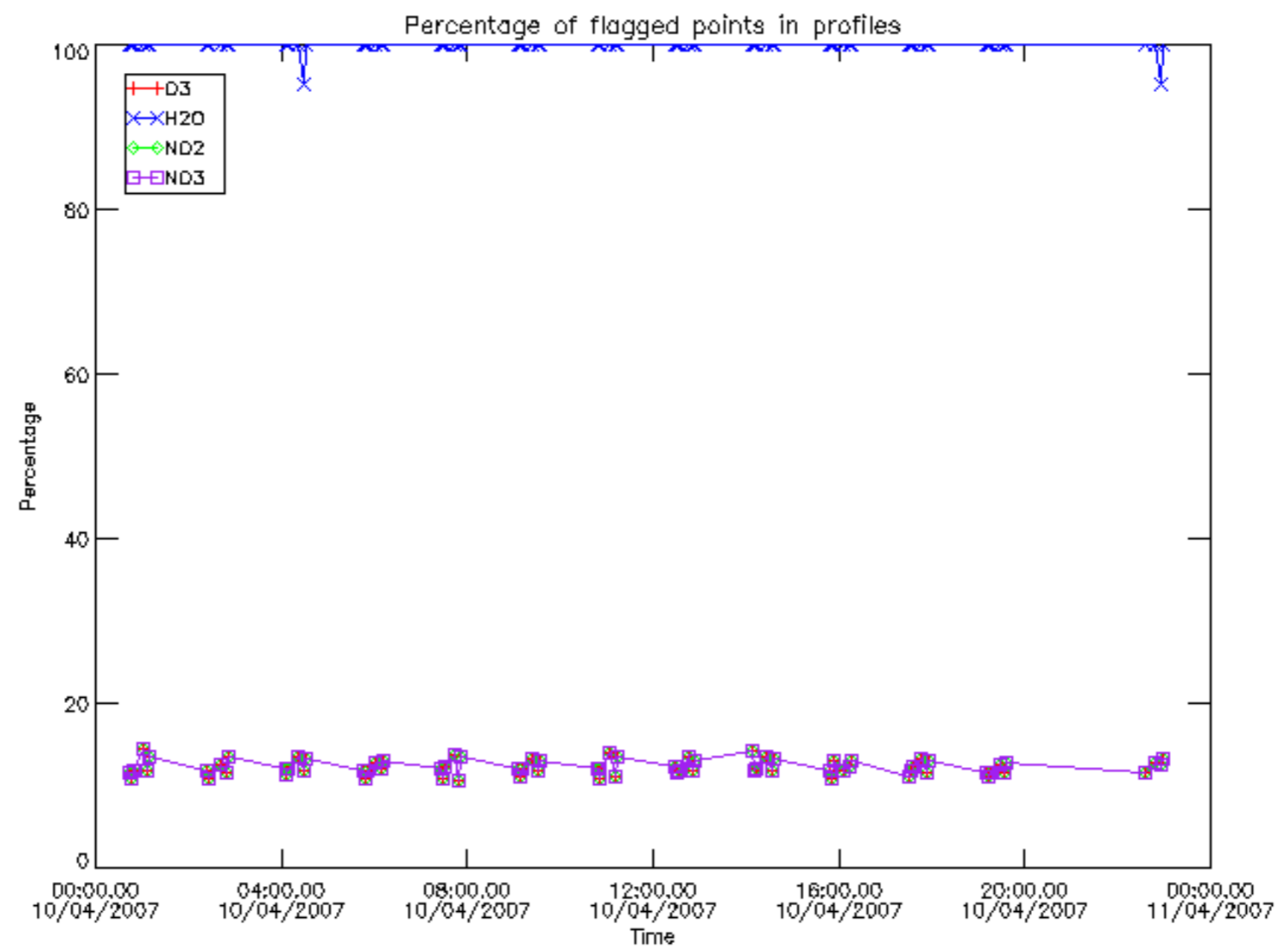
The colorbar represents the latitude.



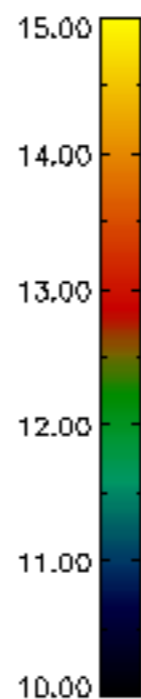
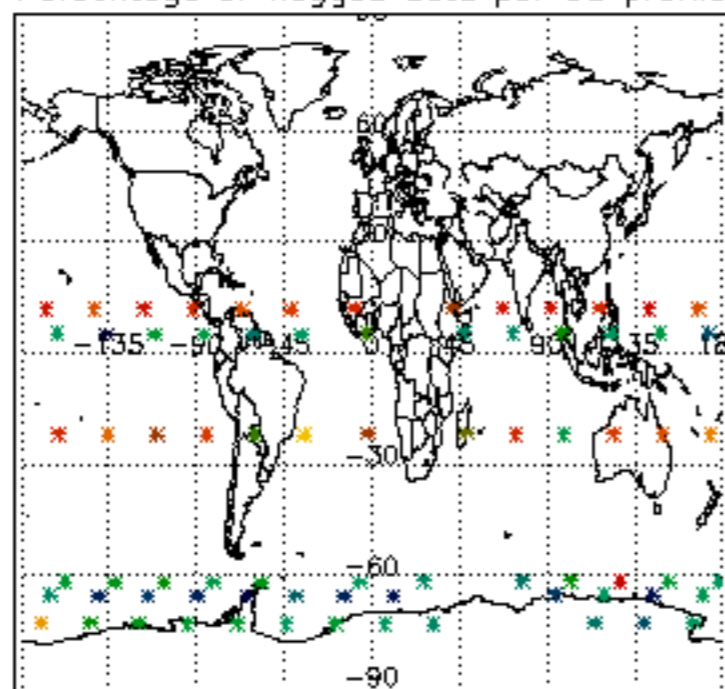
## 6. Auxiliary Data Files used for the production reported in section 2

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

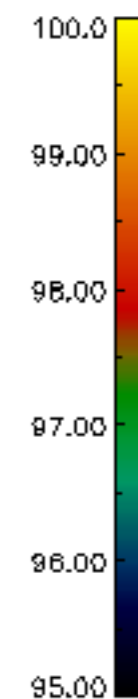
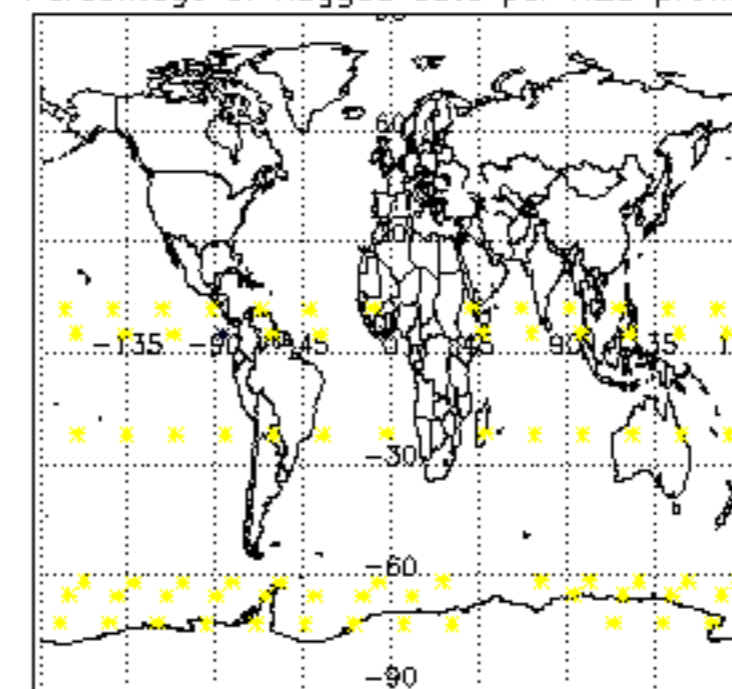
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	10-APR-2007 00:03:38
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	10-APR-2007 00:03:38
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	10-APR-2007 00:03:38



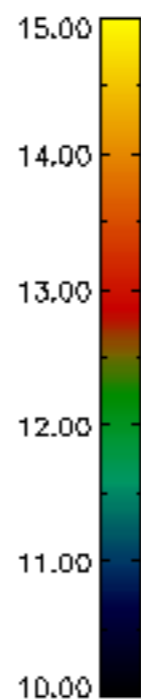
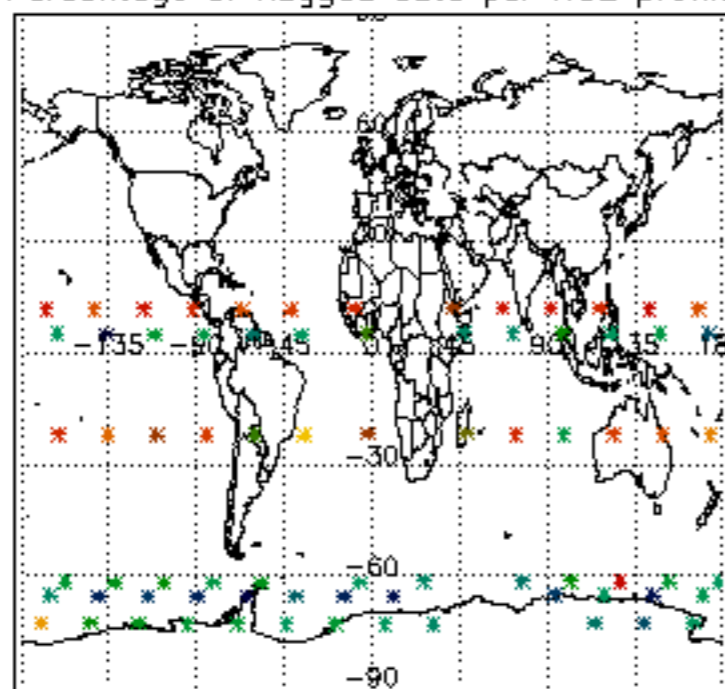
Percentage of flagged data per D3 profile



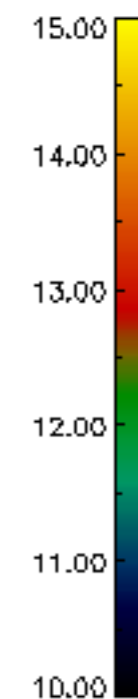
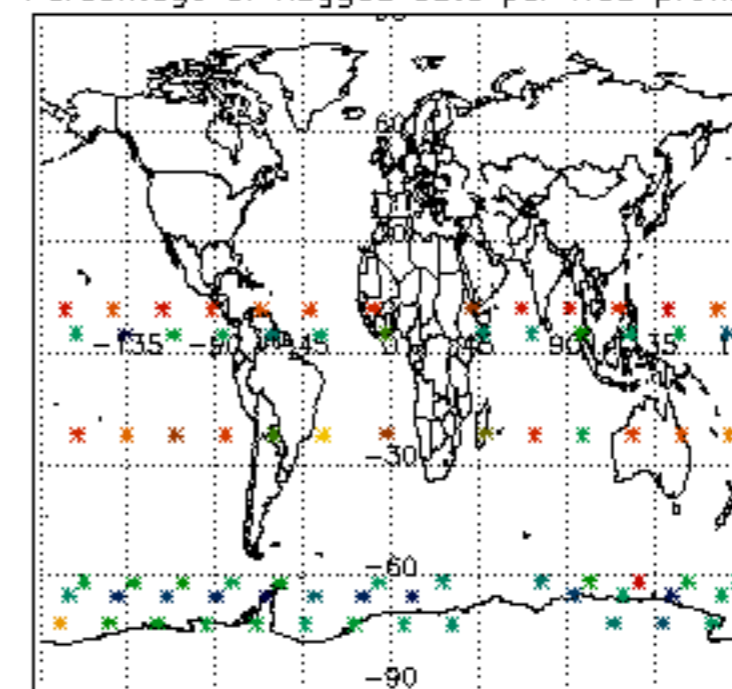
Percentage of flagged data per H2O profile

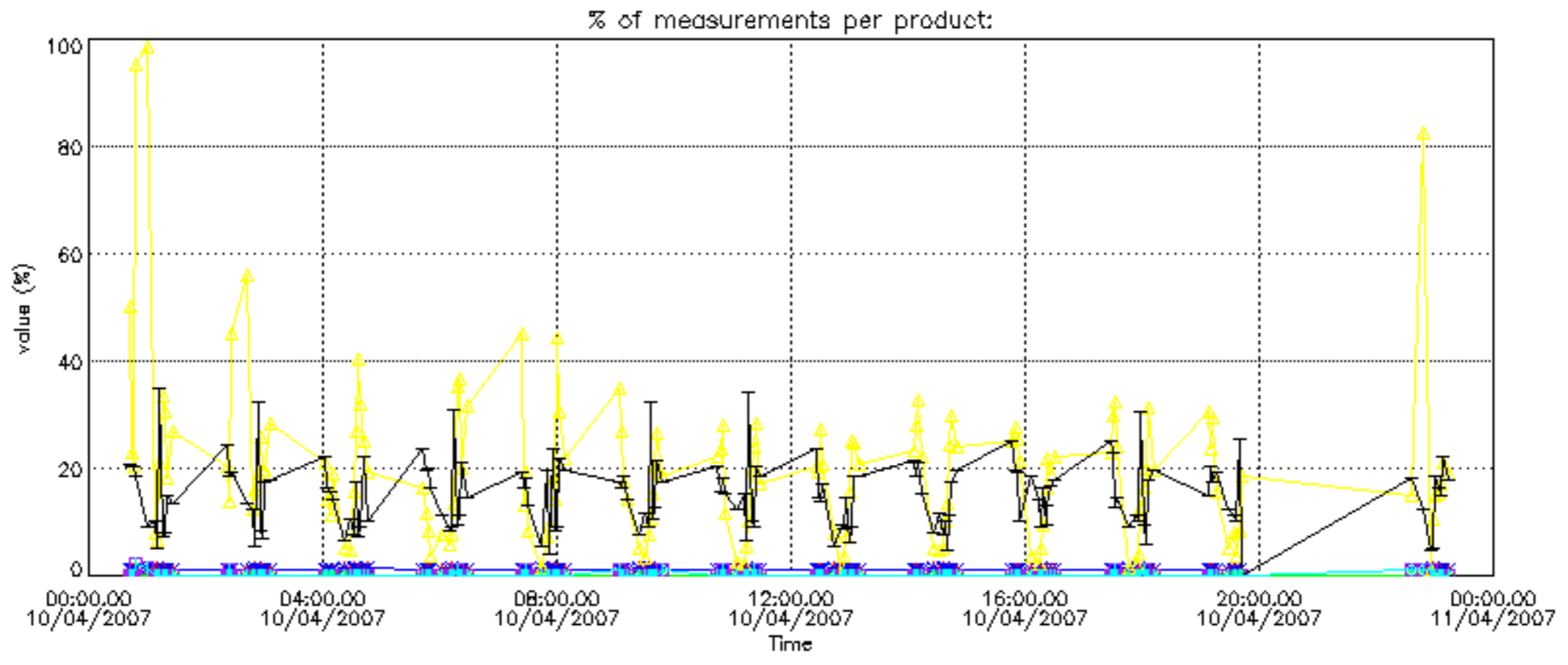


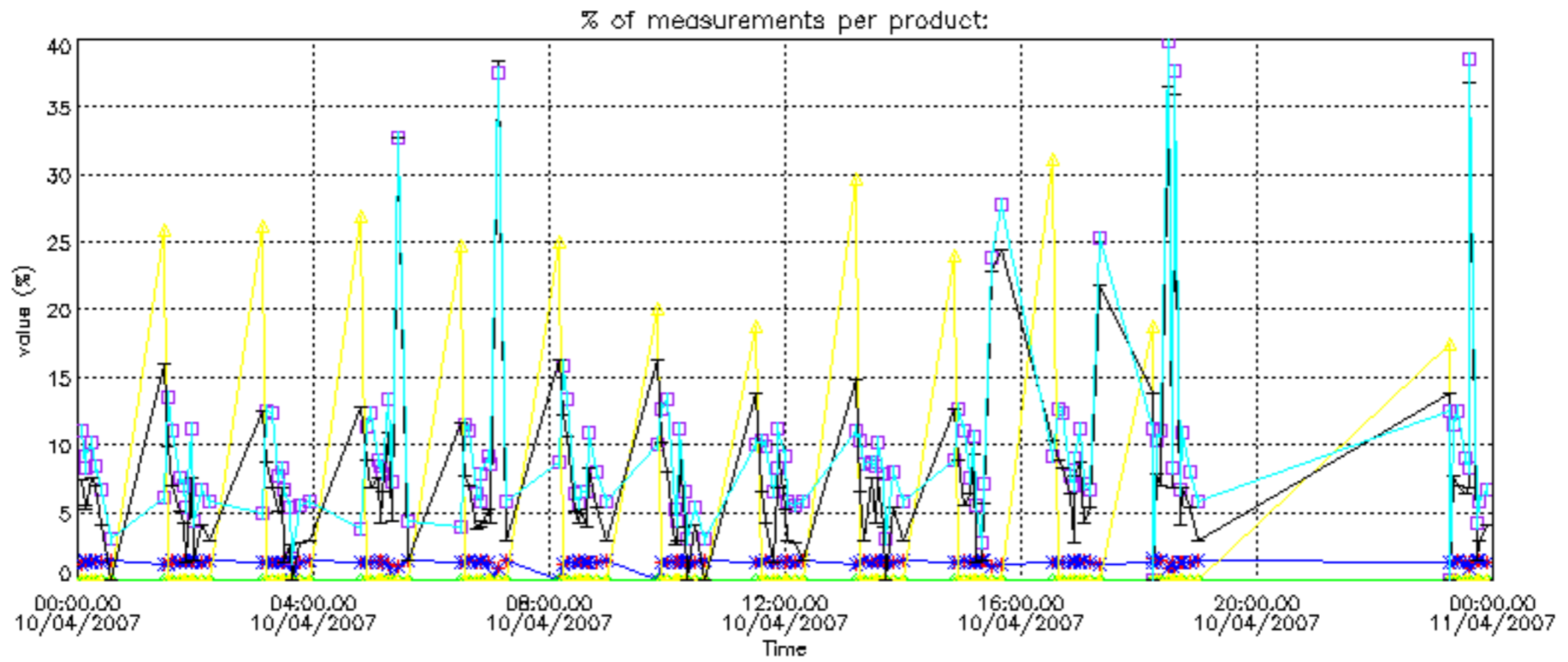
Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

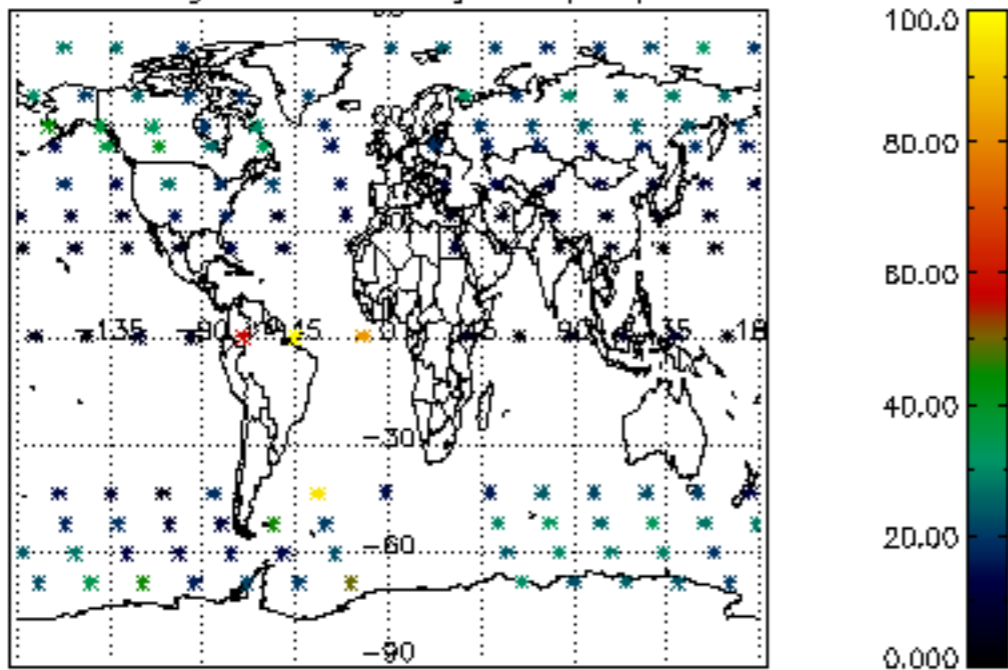




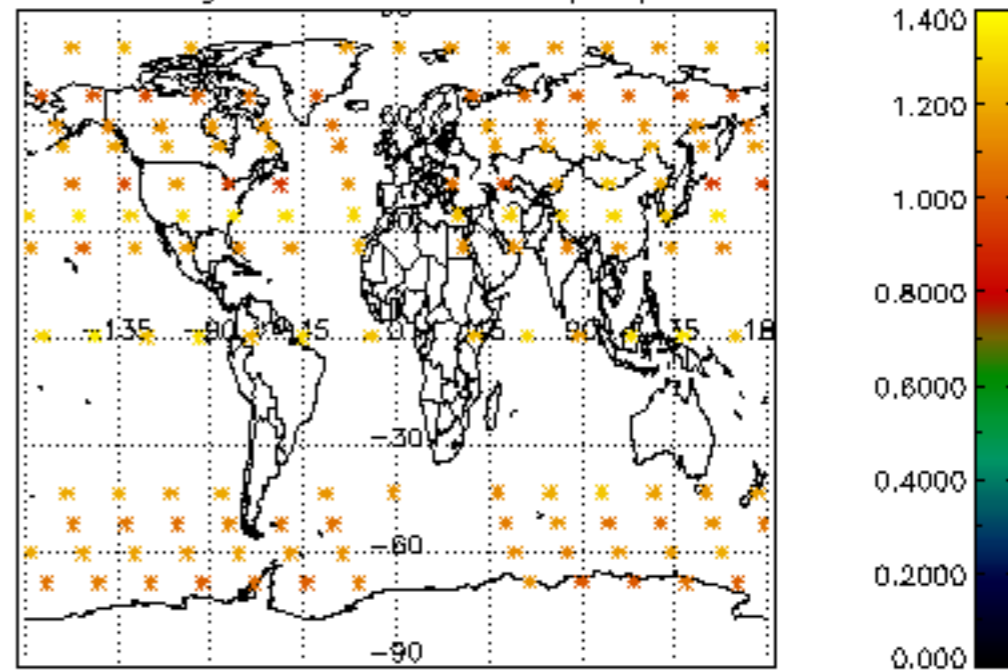




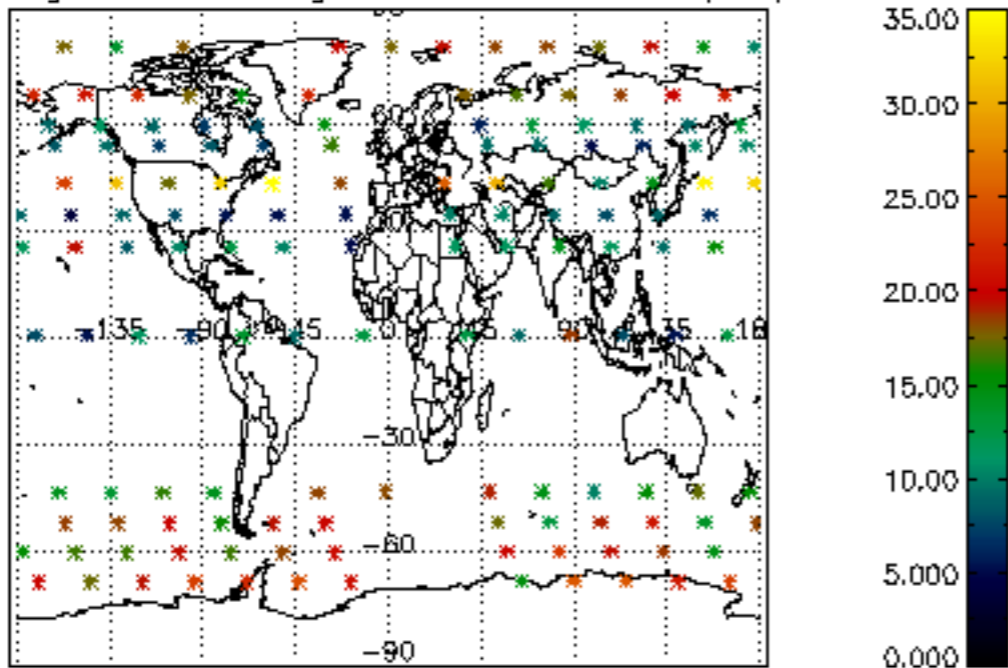
Percentage of cosmic ray hits per profile



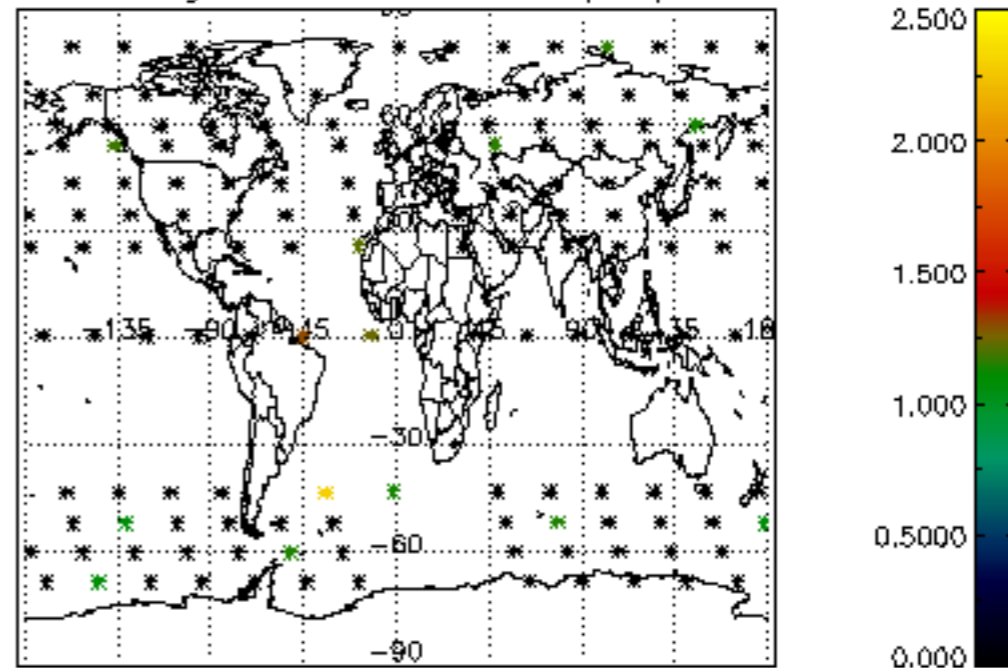
Percentage of datation errors per profile



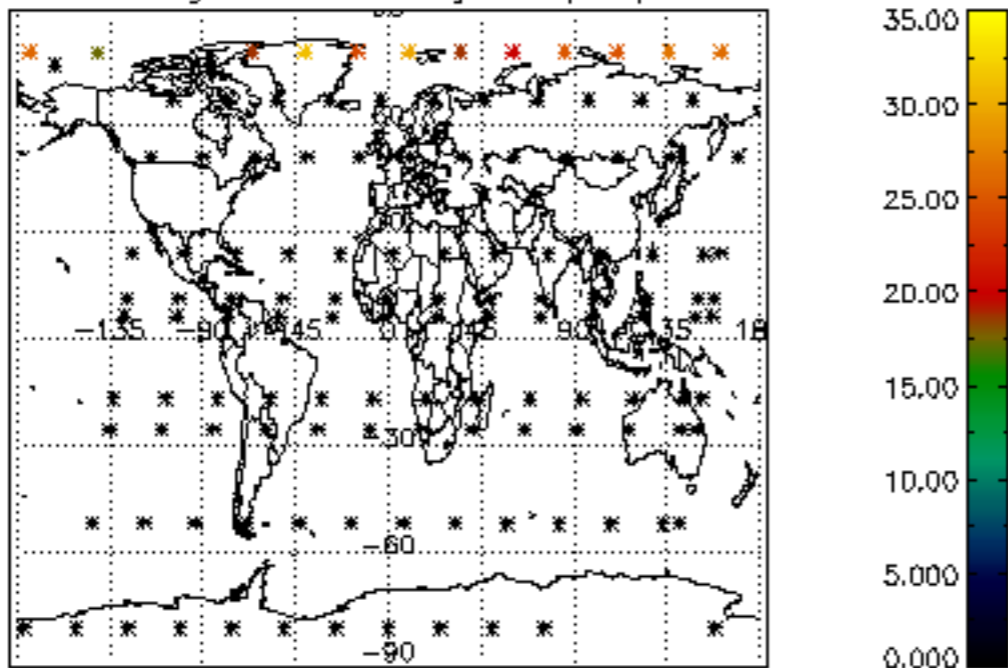
Percentage of star falling outside central band per profile



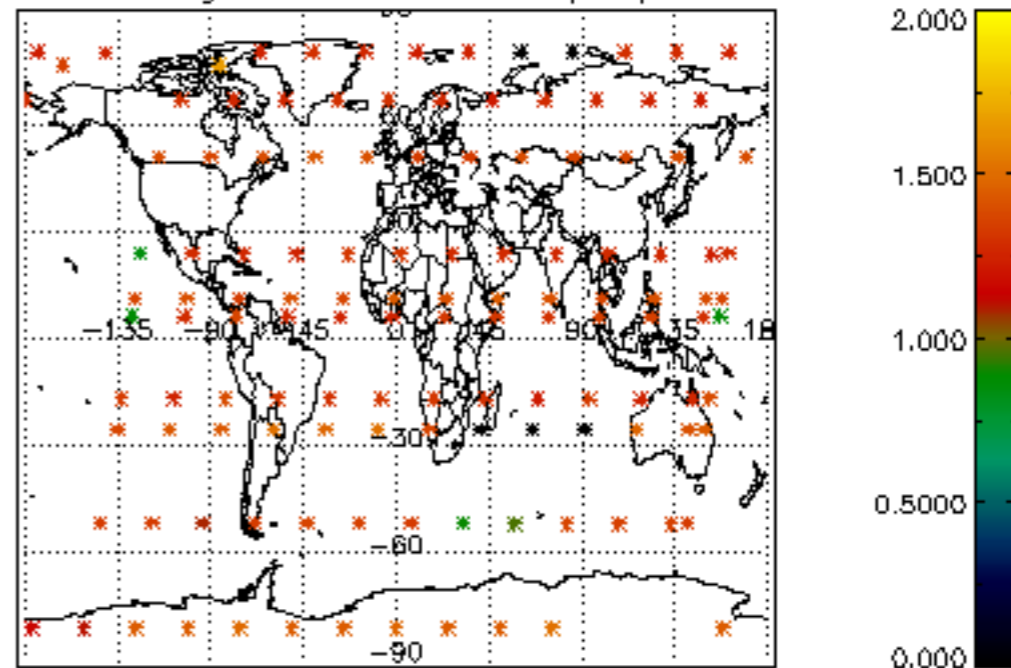
Percentage of saturation errors per profile



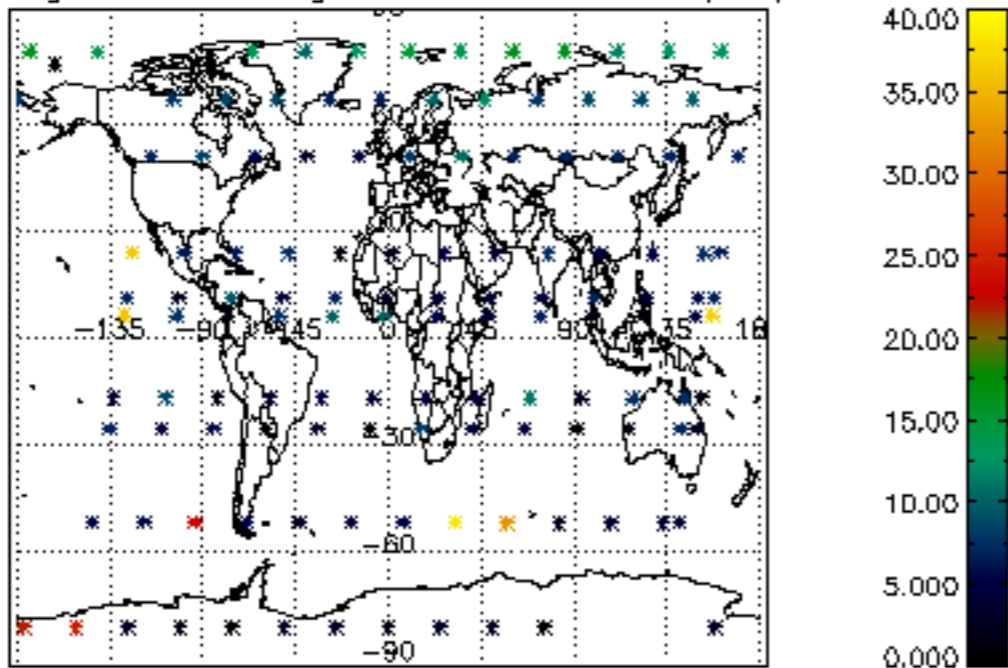
Percentage of cosmic ray hits per profile



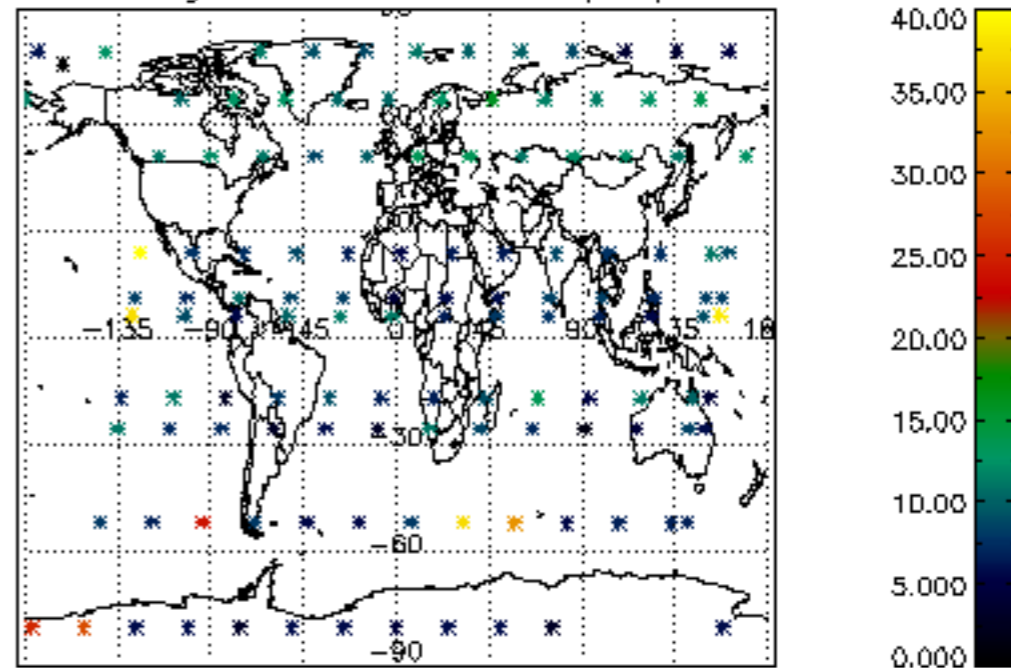
Percentage of datation errors per profile

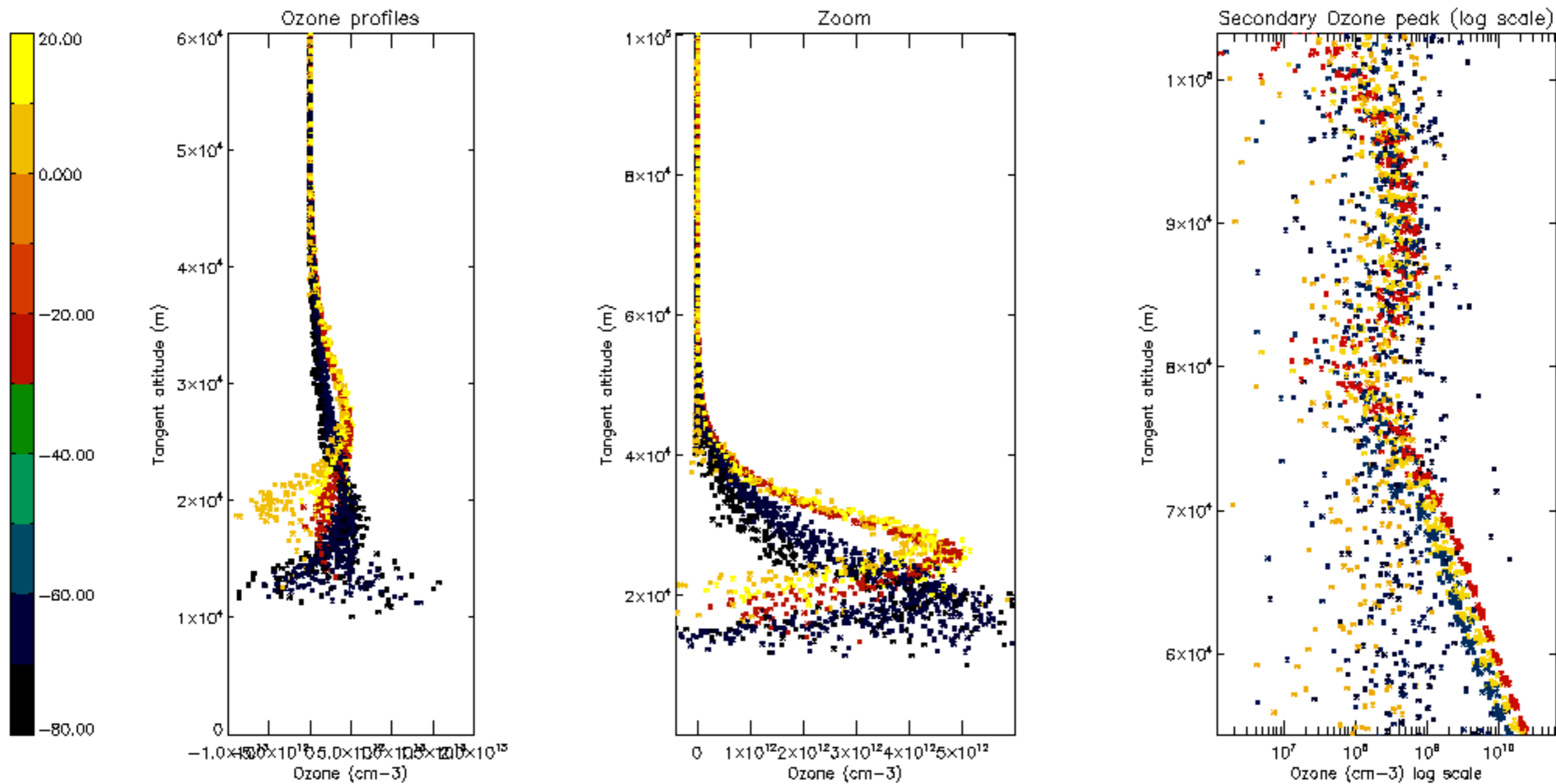


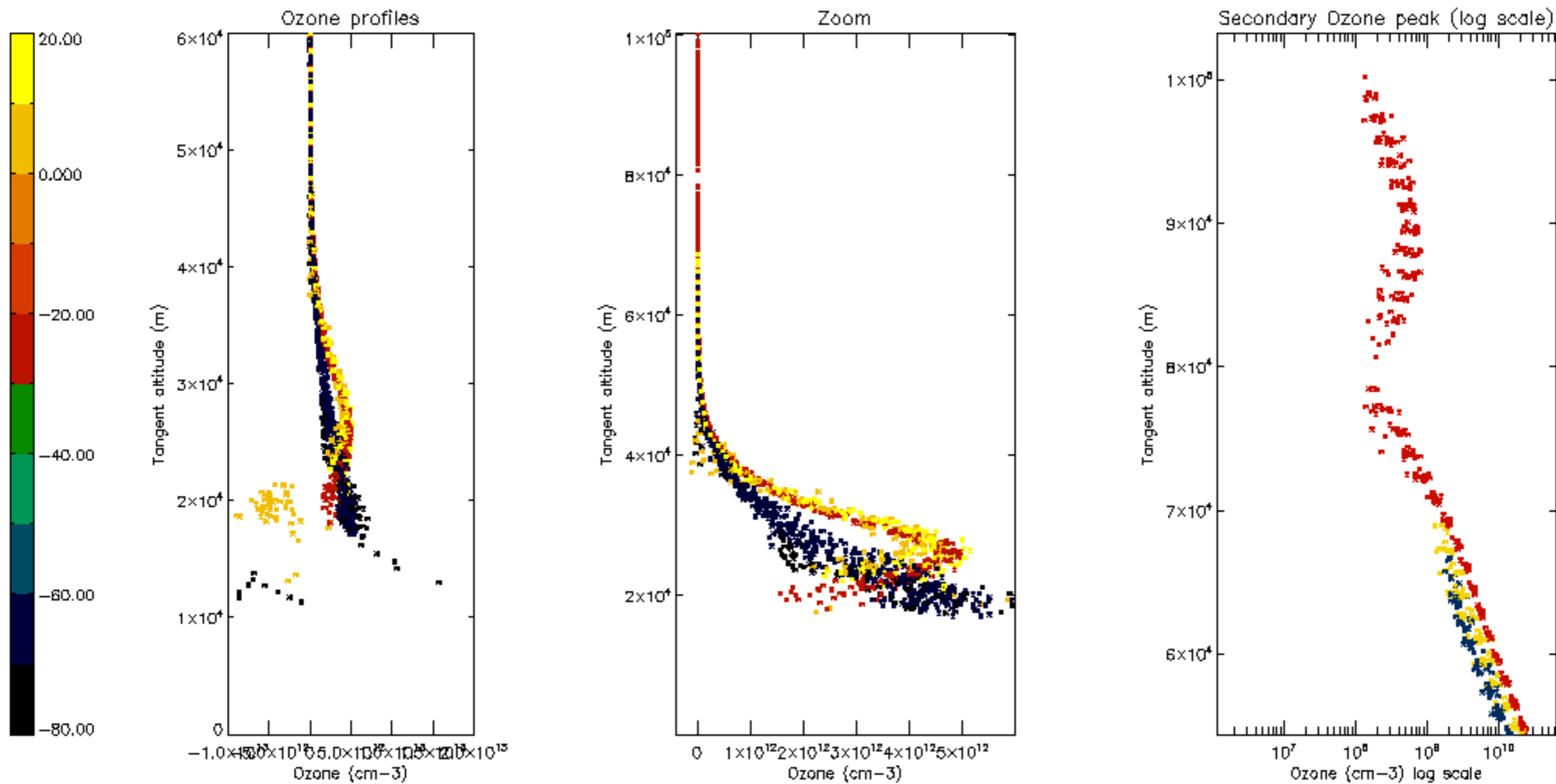
Percentage of star falling outside central band per profile

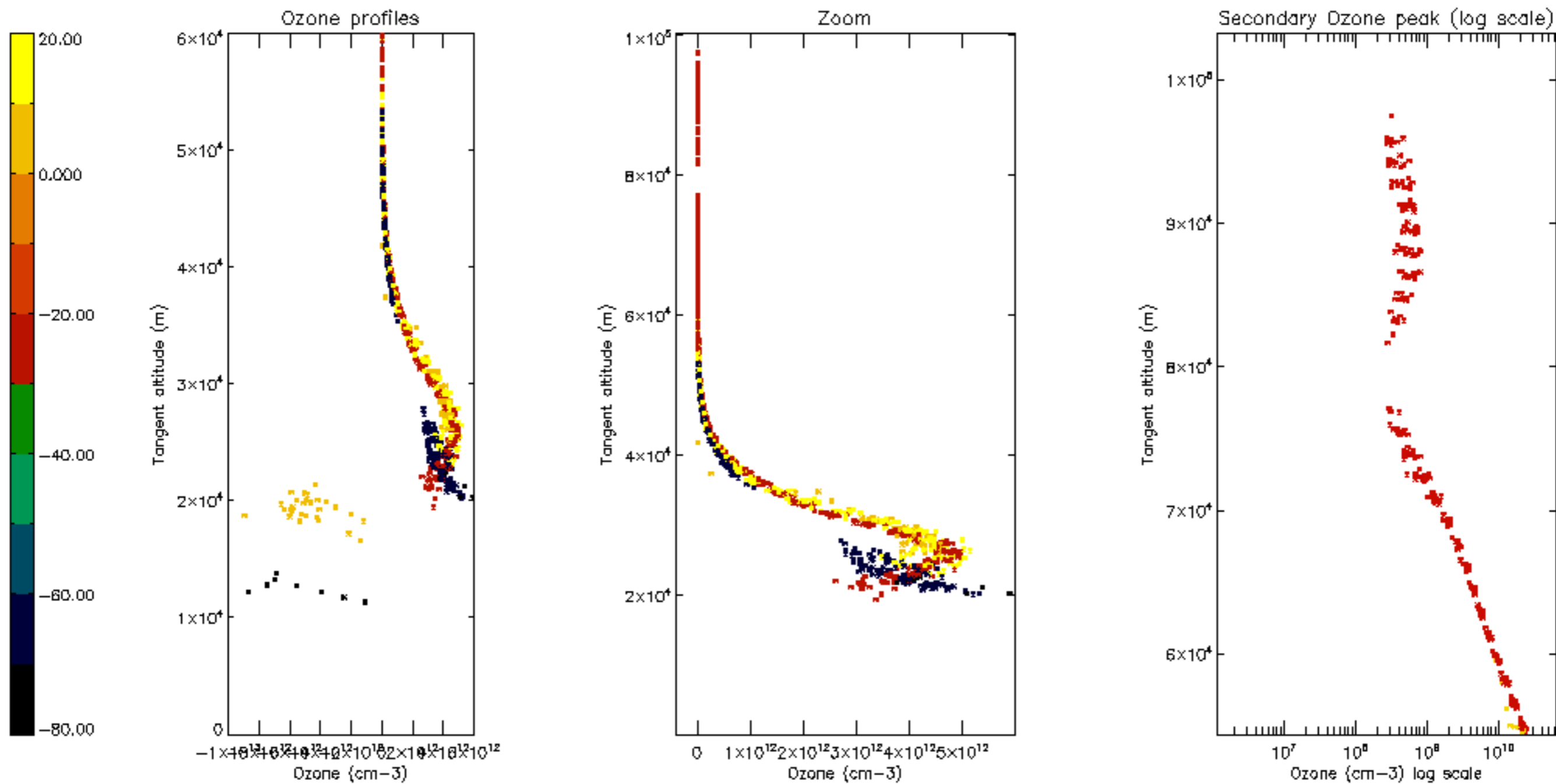


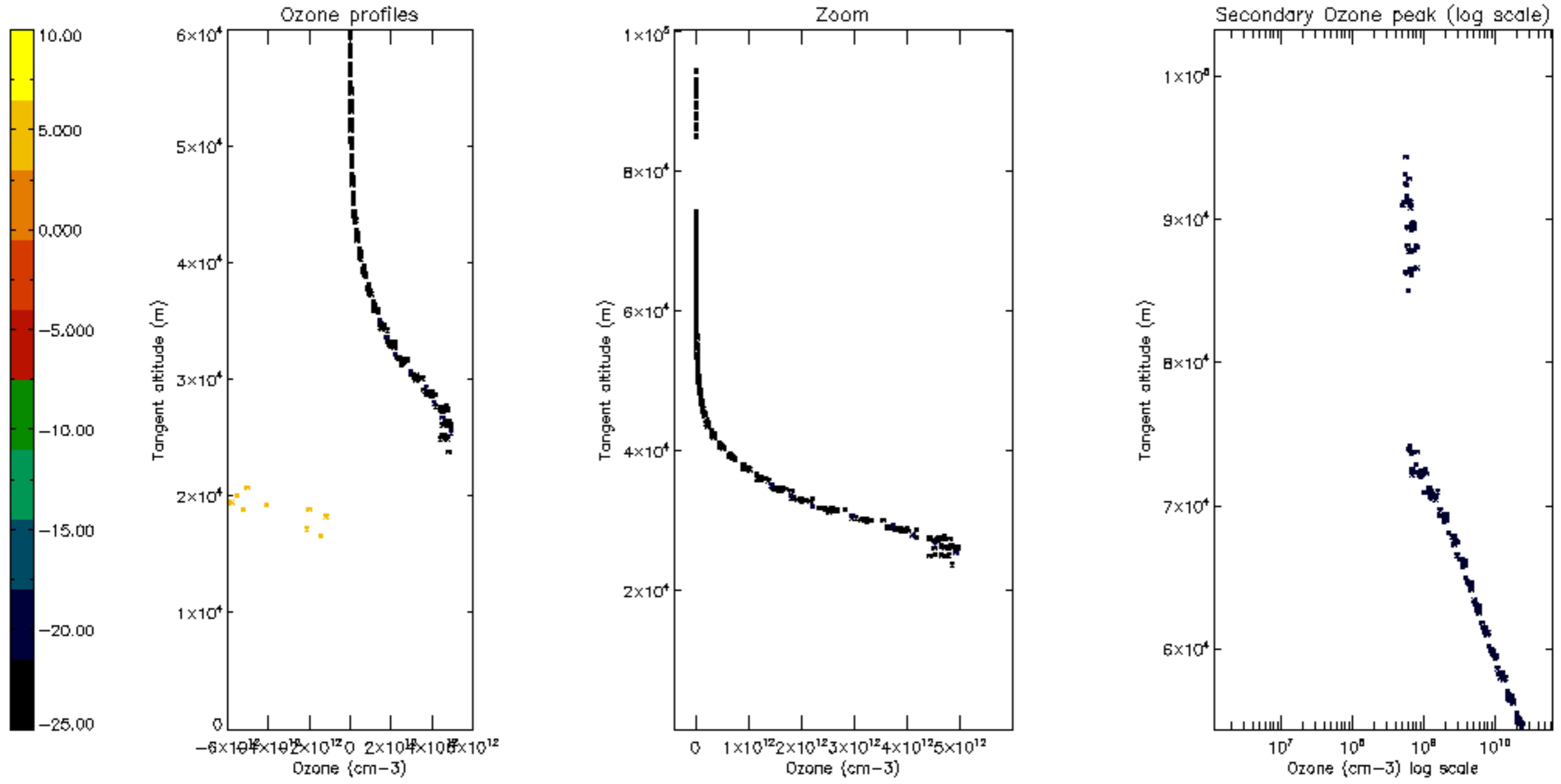
Percentage of saturation errors per profile

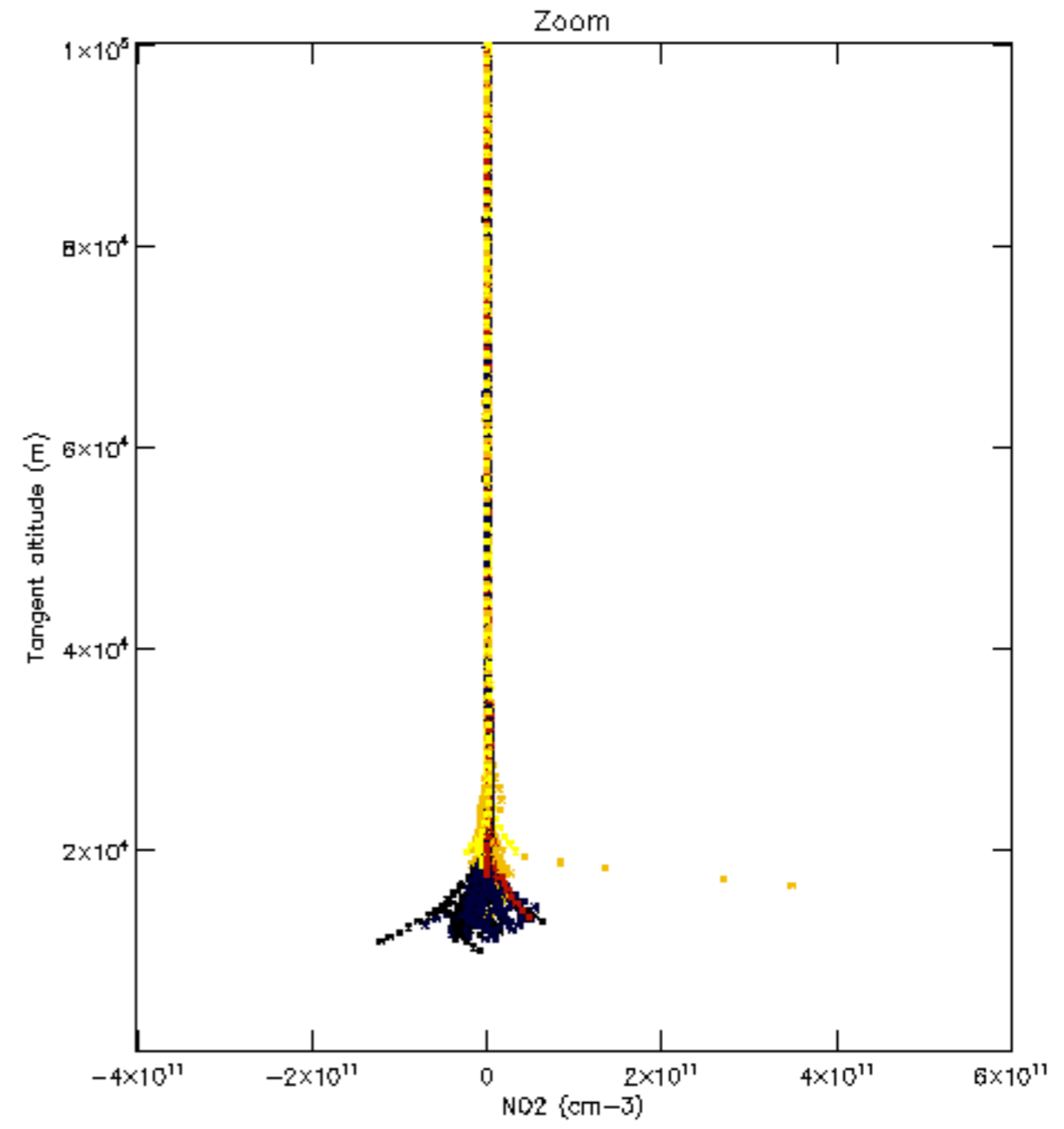
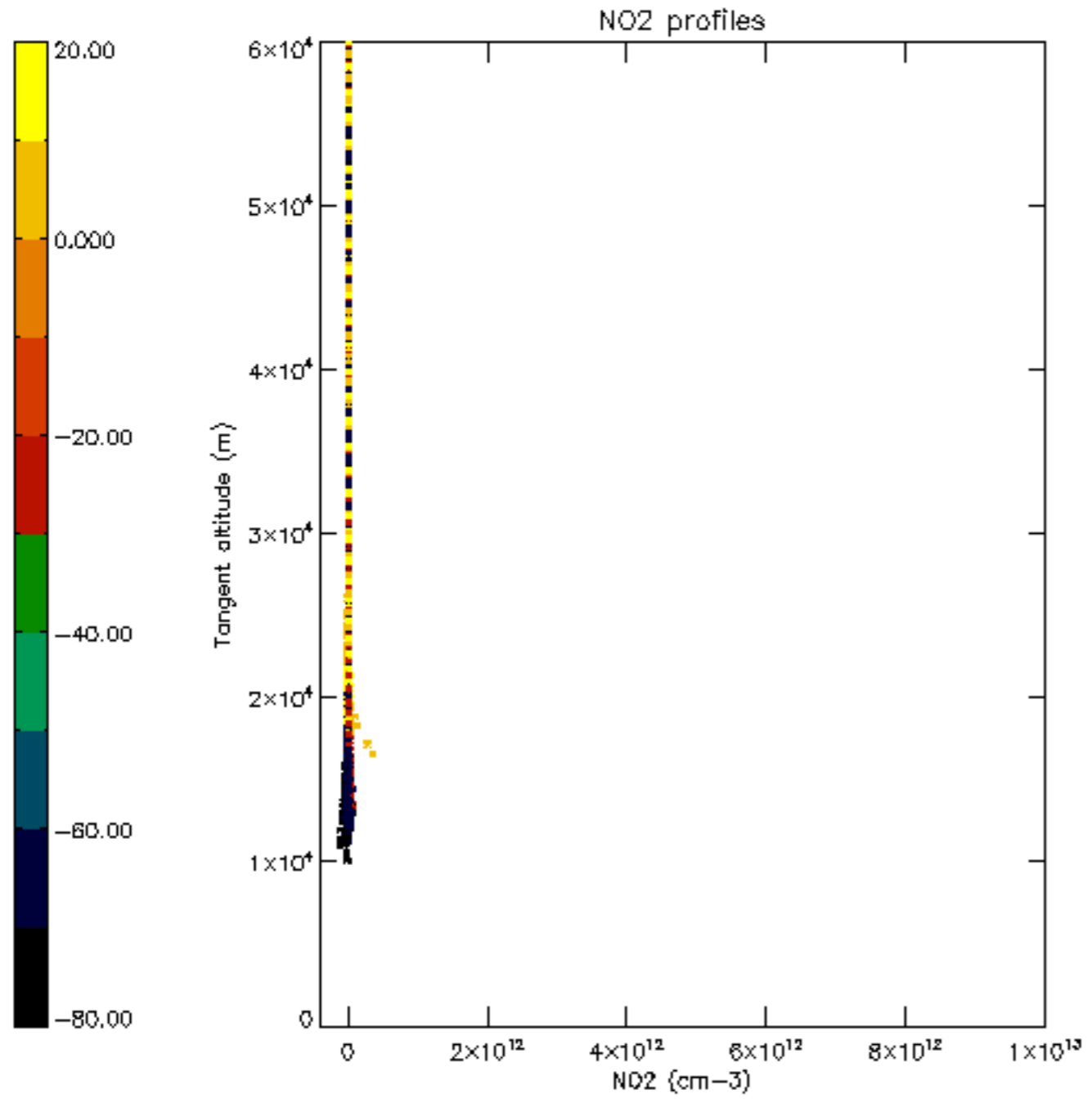


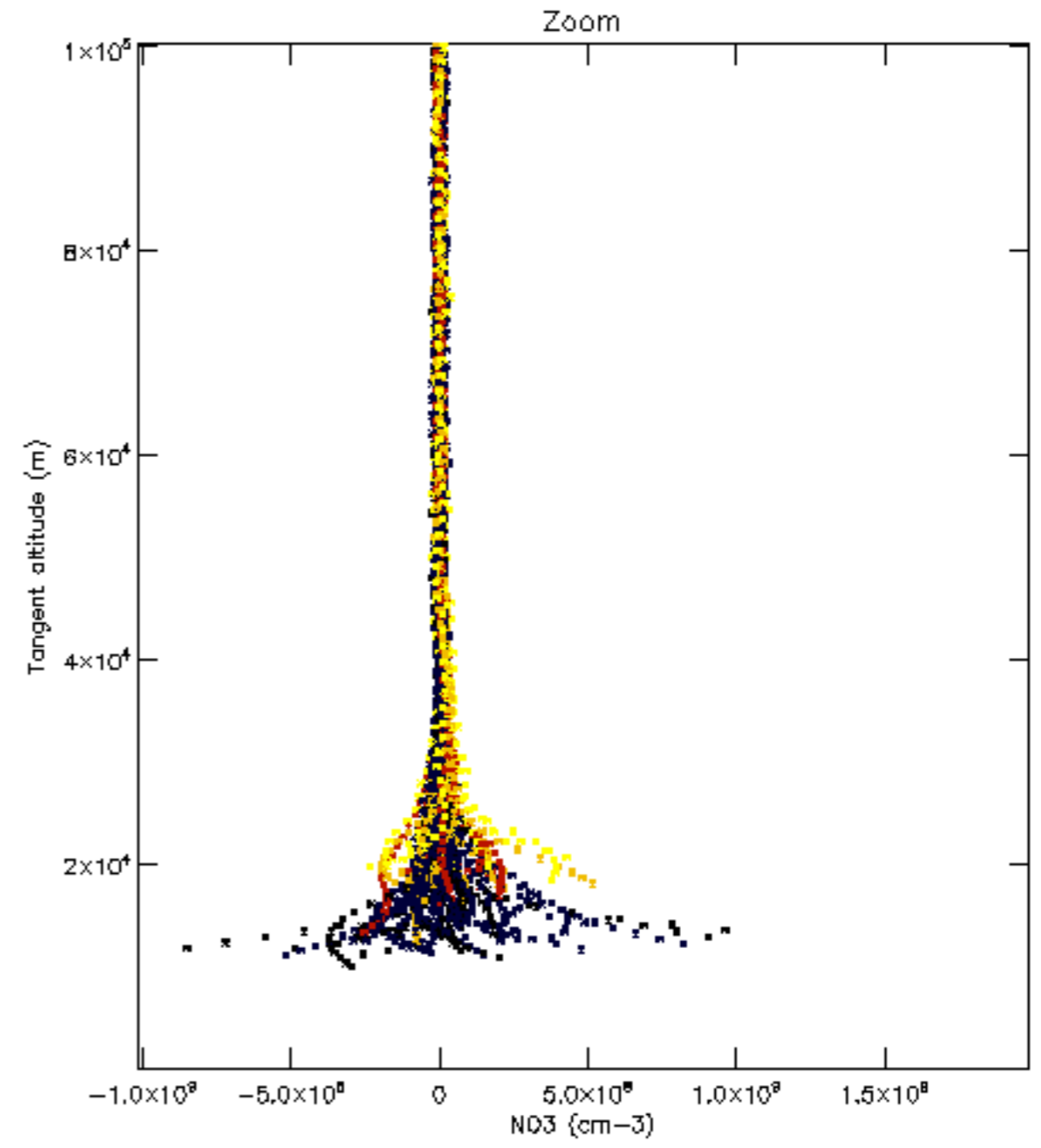
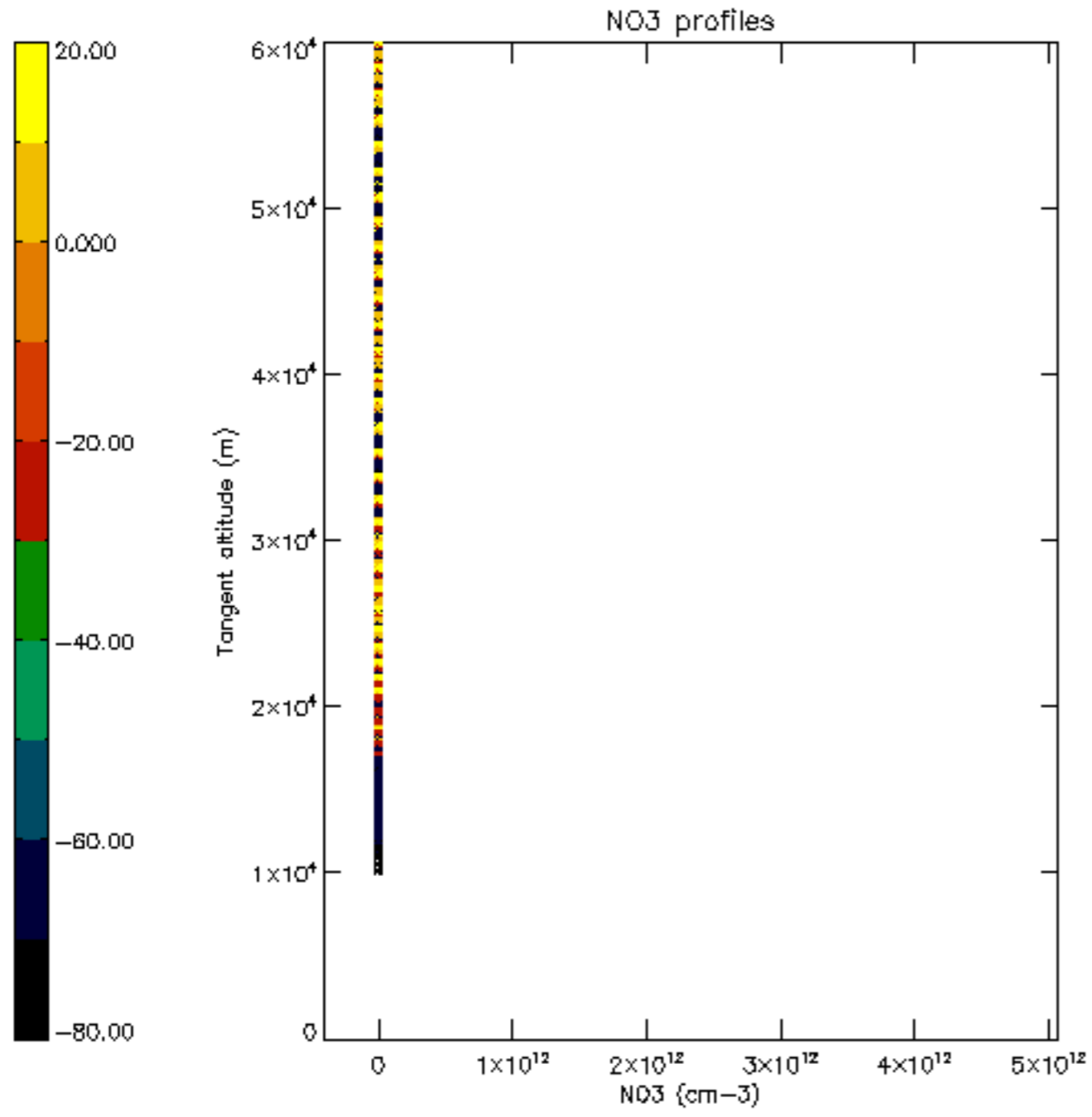




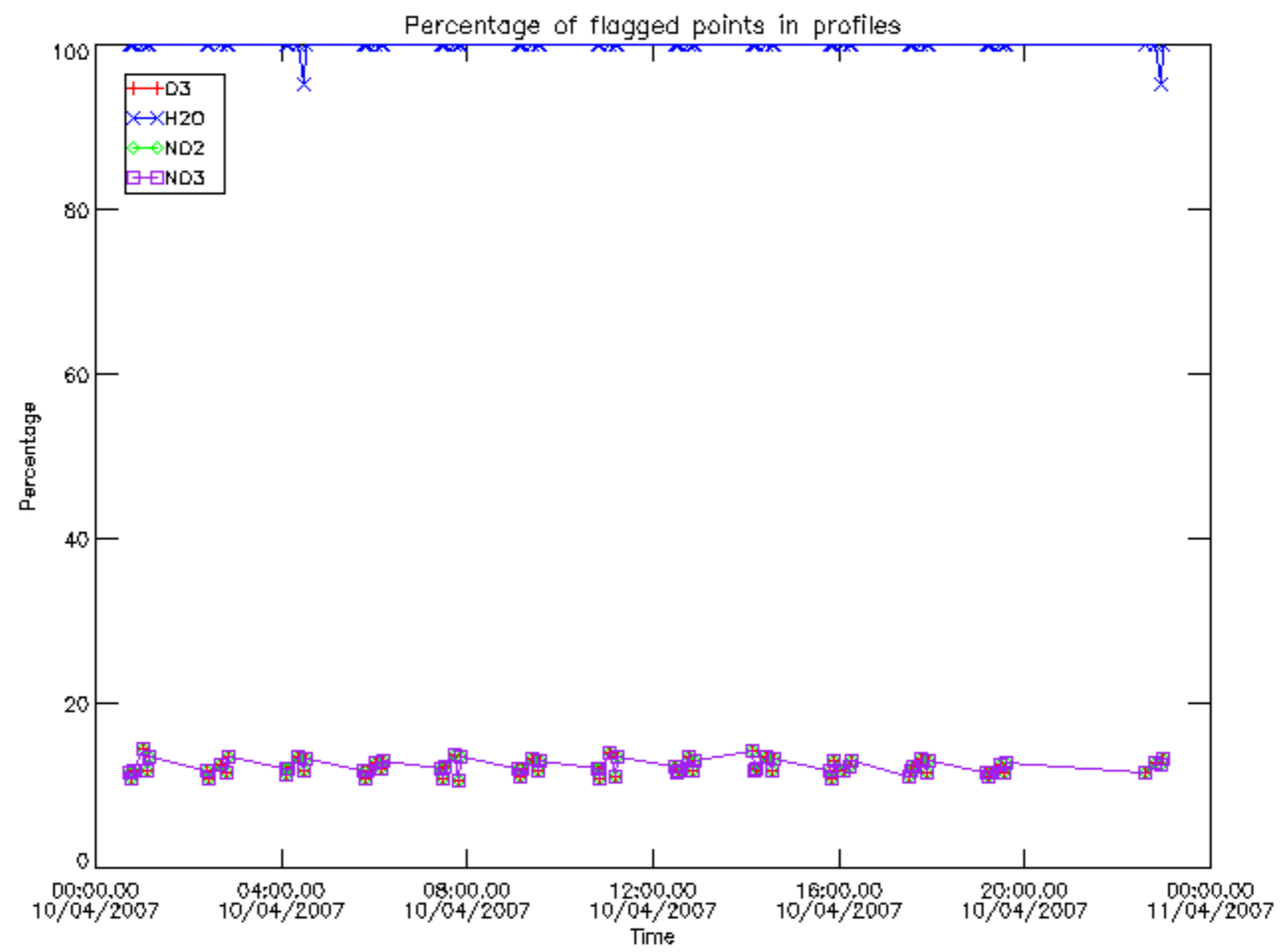




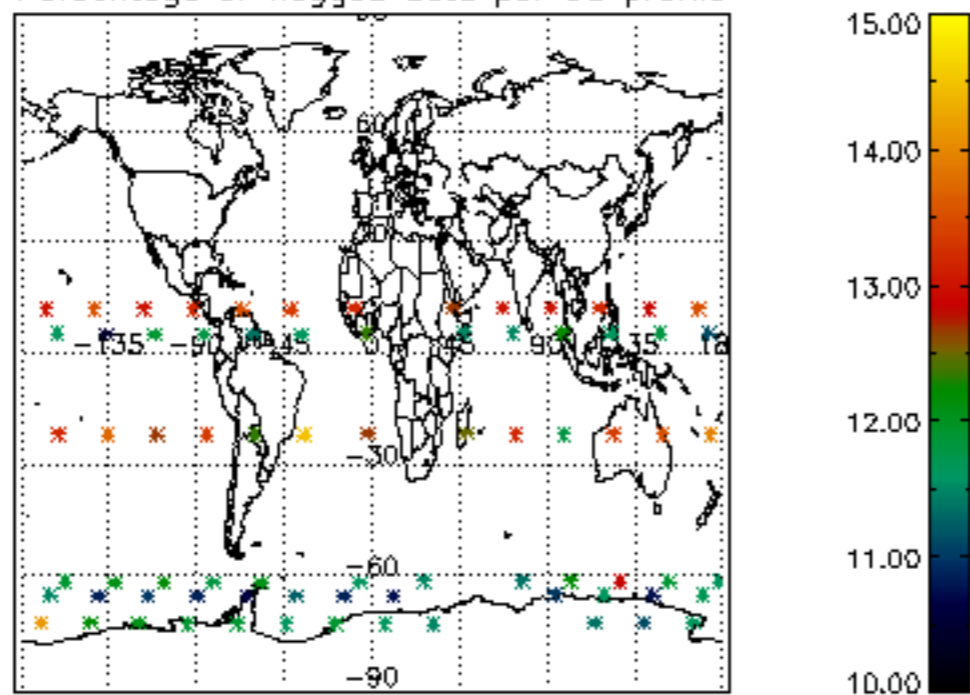




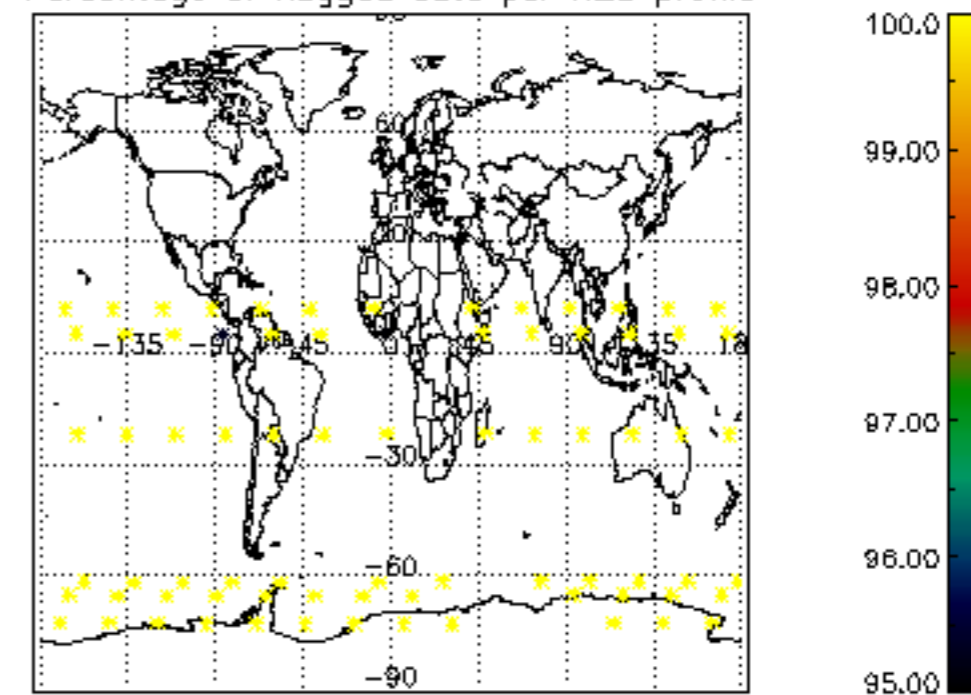




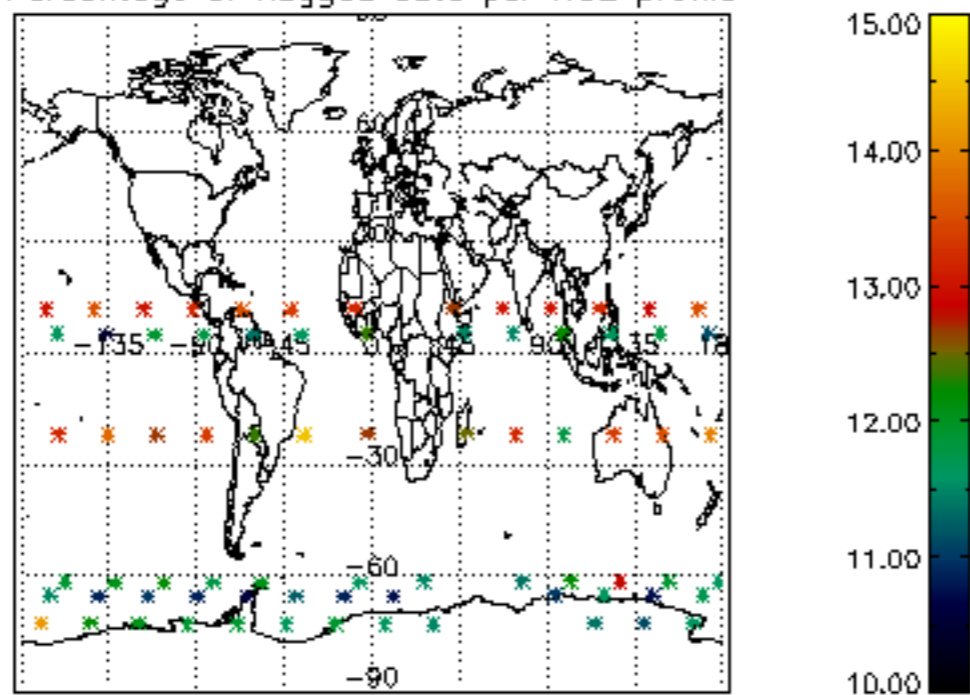
Percentage of flagged data per D3 profile



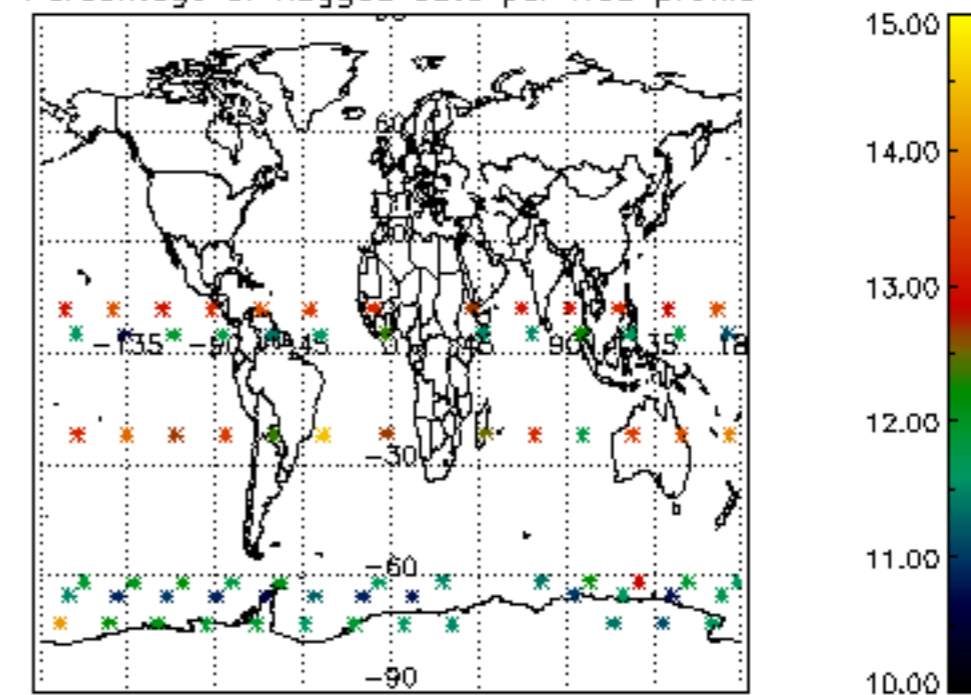
Percentage of flagged data per H2O profile

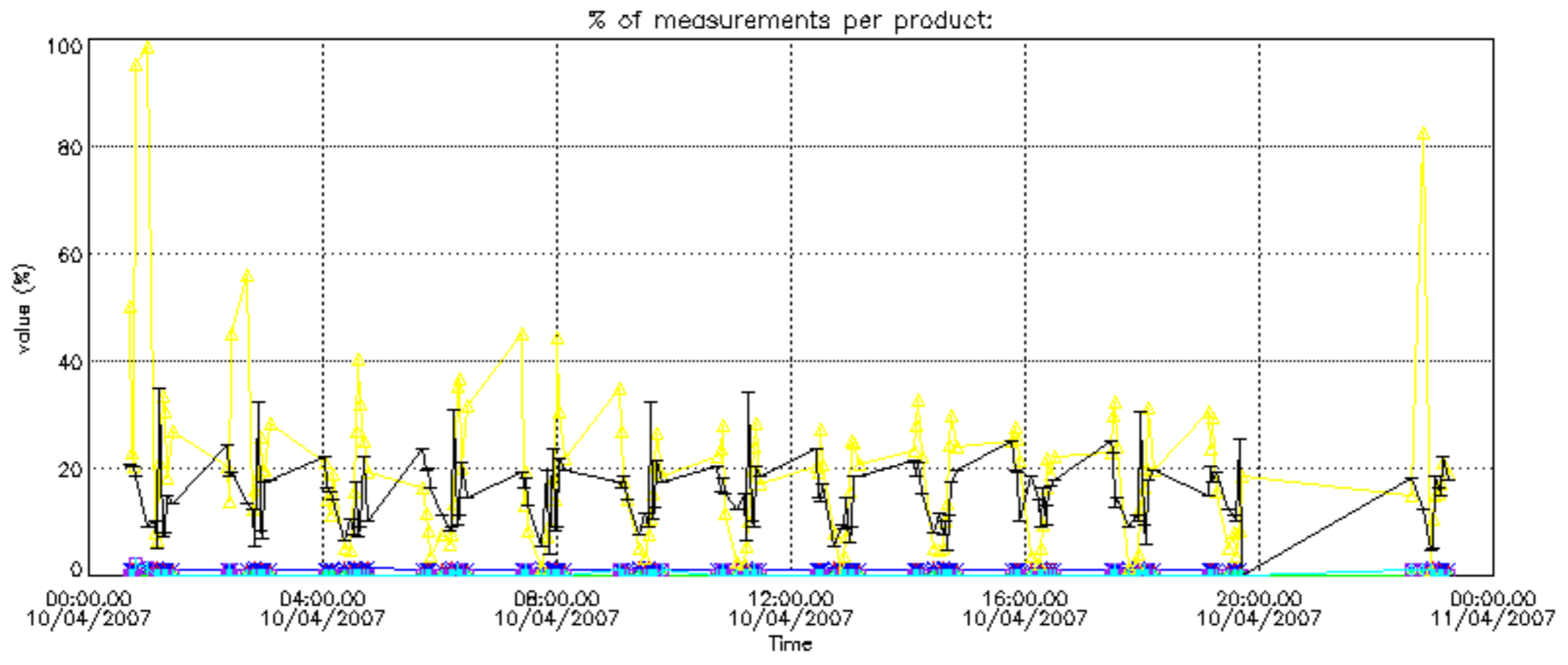


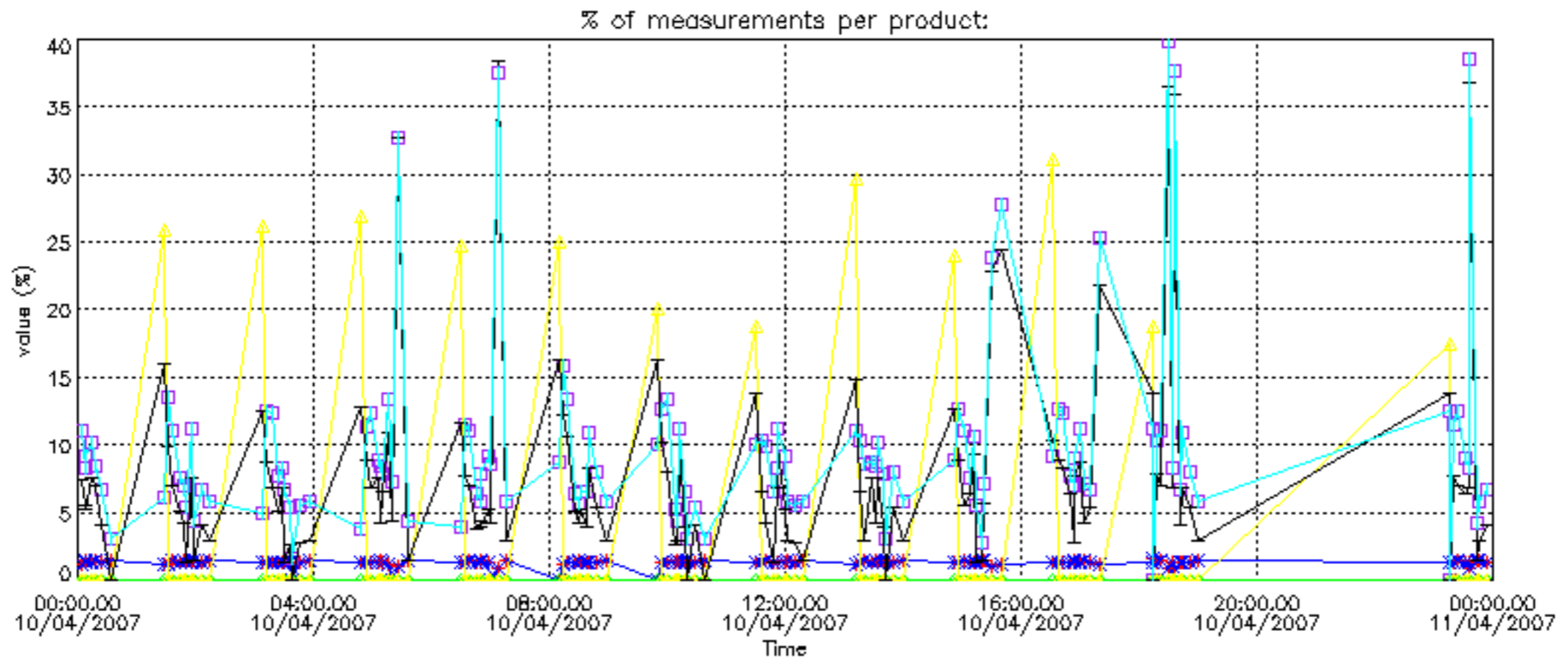
Percentage of flagged data per NO2 profile



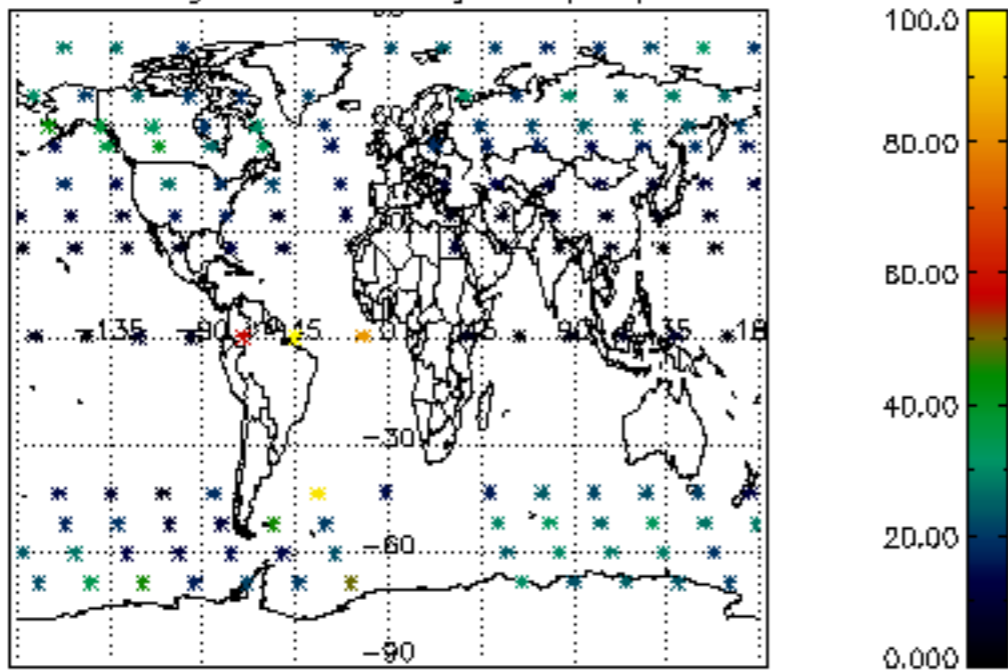
Percentage of flagged data per NO3 profile



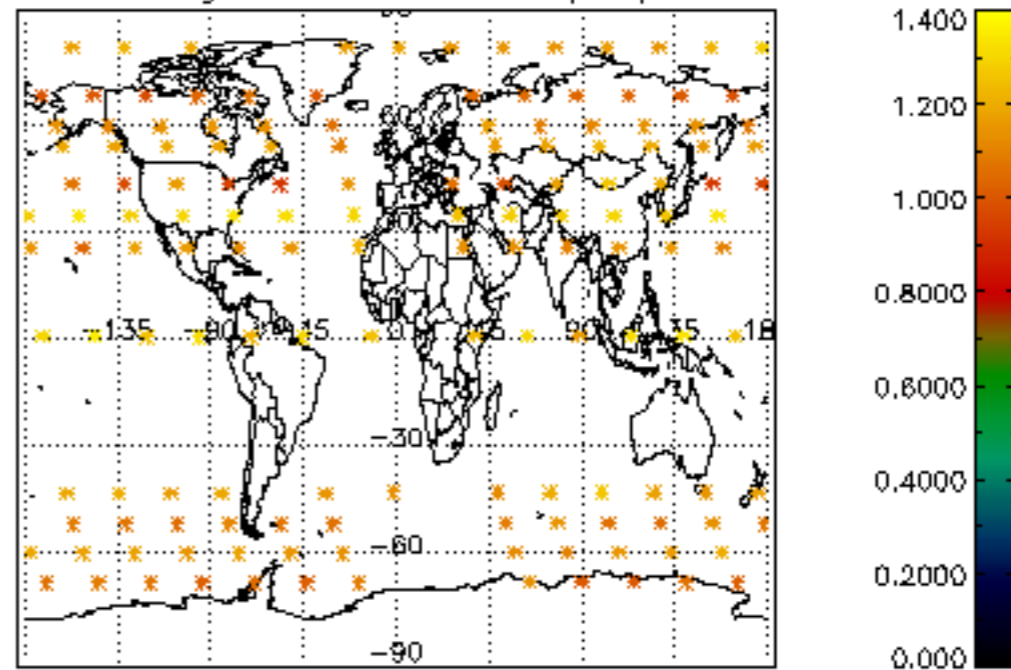




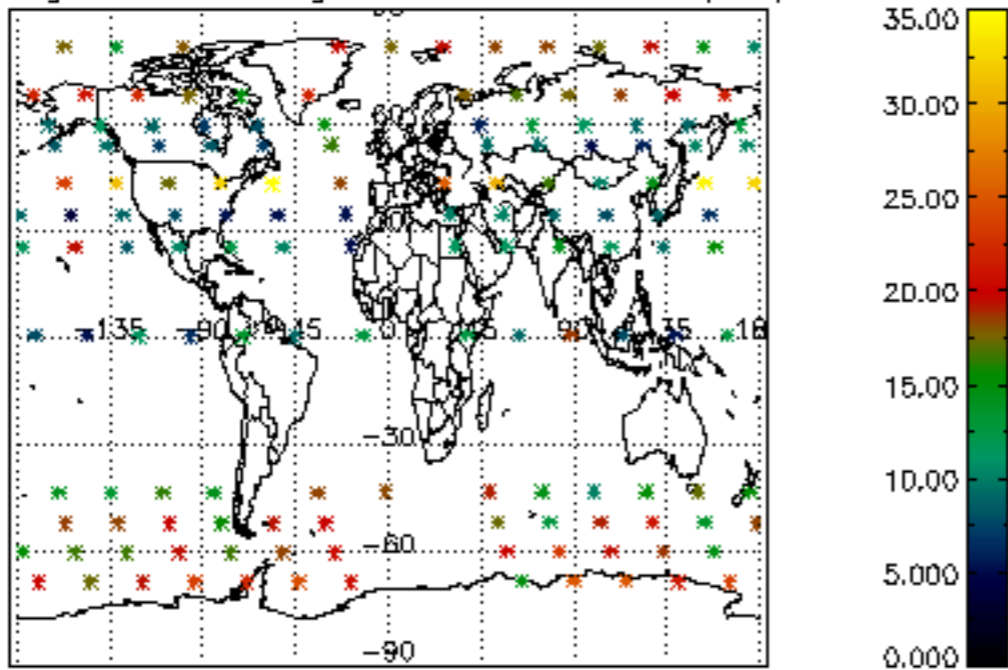
Percentage of cosmic ray hits per profile



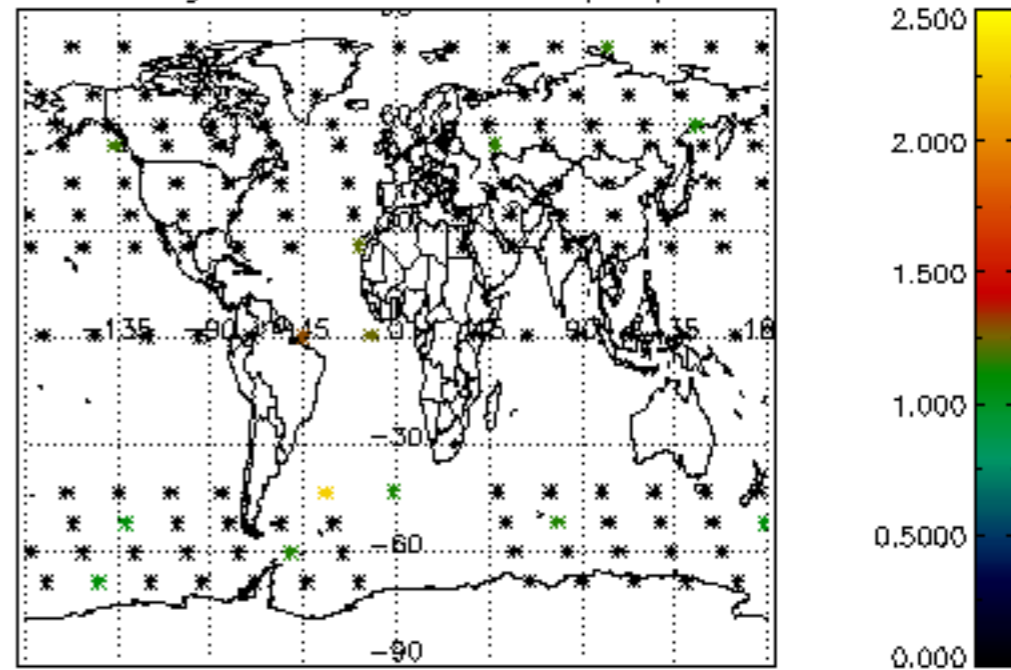
Percentage of datation errors per profile



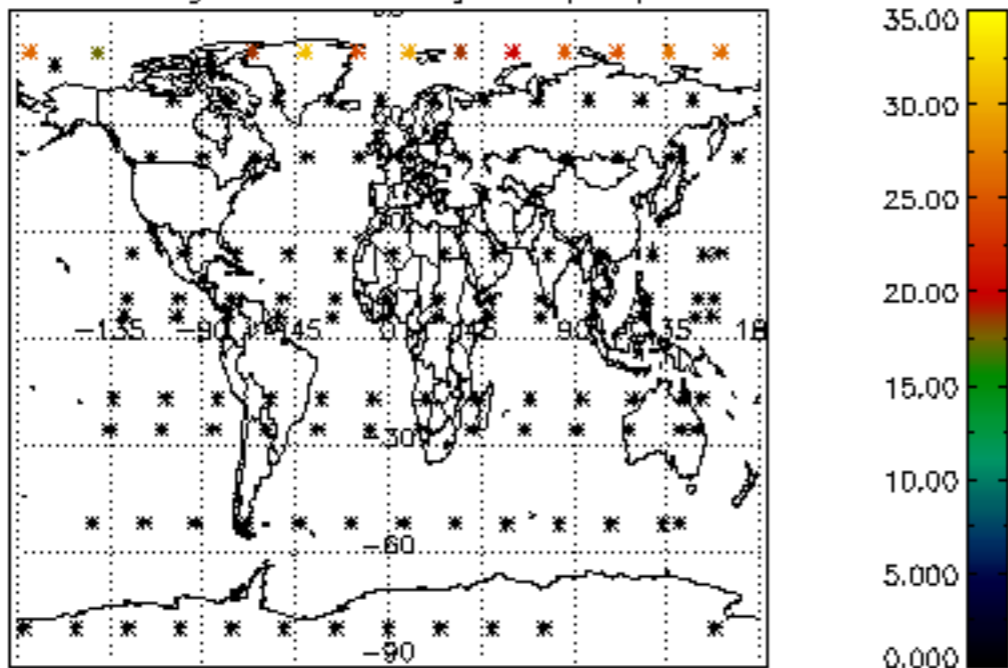
Percentage of star falling outside central band per profile



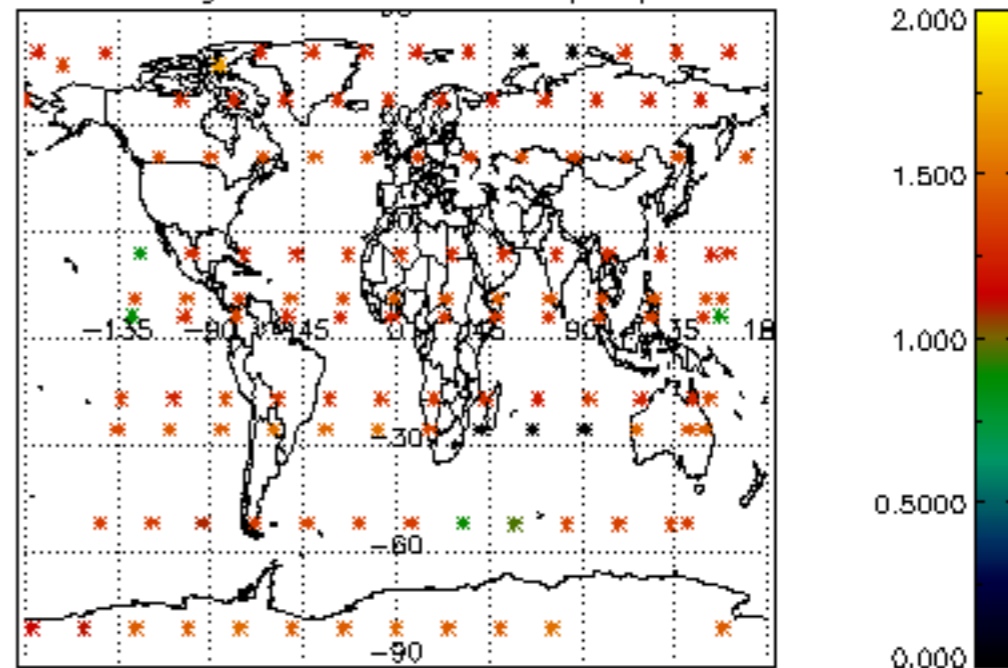
Percentage of saturation errors per profile



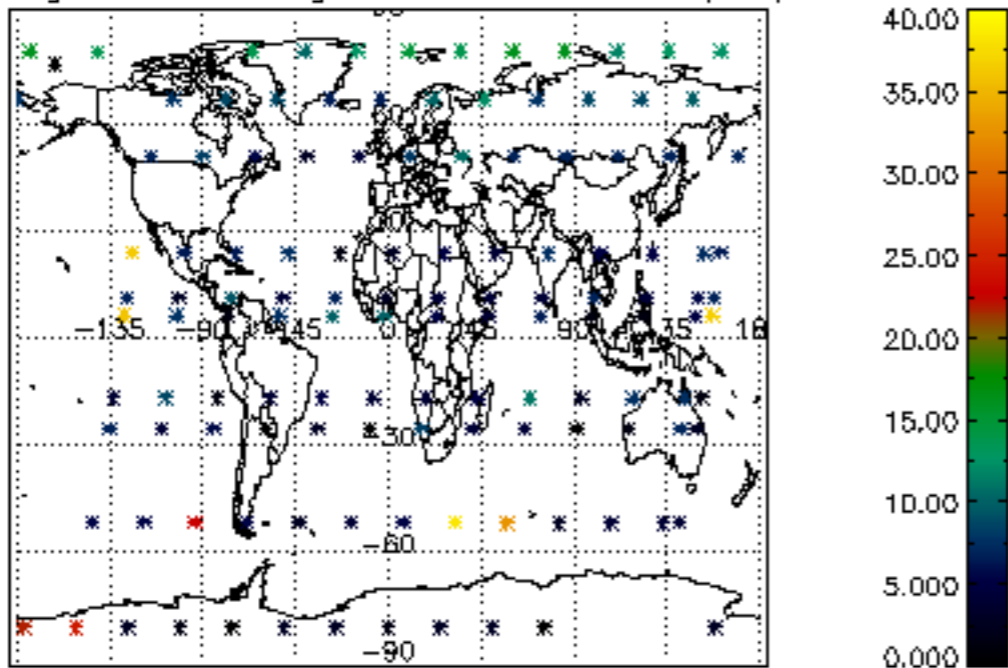
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

