

# 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	19APR2013 13:15:55
Data source version	GOMOS/6.01
Start time of products	15-10-2004 (15OCT2004 00:00:00)
Stop time of products	16-10-2004 (16OCT2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	269
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__2PRFIN20041015_000158_000000412031_00145_13726_5017.N1	15-OCT-2004 00:01:58	Bright	40.500	140	88Gam Peg	2.8340	26000.	81	13726	No
2	GOM_NL__2PRFIN20041015_000557_000000392031_00145_13726_5018.N1	15-OCT-2004 00:05:57	Bright	38.500	58	21Alp And	2.0730	11000.	77	13726	No
3	GOM_NL__2PRFIN20041015_000831_000000462031_00145_13726_5019.N1	15-OCT-2004 00:08:31	Bright	45.500	53	43Bet And	2.0480	3300.0	91	13726	No
4	GOM_NL__2PRFIN20041015_001013_000000482031_00145_13726_5020.N1	15-OCT-2004 00:10:13	Bright	47.500	173	4Bet Tri	3.0040	8900.0	95	13726	No
5	GOM_NL__2PRFIN20041015_001201_000000512031_00145_13726_5021.N1	15-OCT-2004 00:12:01	Bright	51.000	73	57Gam1And	2.2600	13100.	102	13726	No
6	GOM_NL__2PRFIN20041015_001401_000000372031_00145_13726_5022.N1	15-OCT-2004 00:14:01	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	13726	No
7	GOM_NL__2PRFIN20041015_001523_000000392031_00145_13726_5023.N1	15-OCT-2004 00:15:23	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	13726	No
8	GOM_NL__2PRFIN20041015_001723_000000452031_00145_13726_5024.N1	15-OCT-2004 00:17:23	Bright	44.500	160	23Gam Per	2.9300	4700.0	89	13726	No
9	GOM_NL__2PRFIN20041015_001927_000000692031_00145_13726_5025.N1	15-OCT-2004 00:19:27	Bright	69.000	149	45Eps Per	2.8880	30000.	138	13726	No
10	GOM_NL__2PRFIN20041015_002258_000000402031_00145_13726_5026.N1	15-OCT-2004 00:22:58	Bright	39.500	49	1Alp UMi	1.9900	6300.0	79	13726	No
11	GOM_NL__2PRFIN20041015_002556_000000412031_00145_13726_5027.N1	15-OCT-2004 00:25:56	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	13726	No
12	GOM_NL__2PRFIN20041015_003113_000000402031_00145_13726_5028.N1	15-OCT-2004 00:31:13	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	13726	No
13	GOM_NL__2PRFIN20041015_003246_000000532031_00145_13726_5029.N1	15-OCT-2004 00:32:46	Bright	53.000	82	48Bet UMa	2.3650	10600.	106	13726	No
14	GOM_NL__2PRFIN20041015_003610_000000522031_00145_13726_5030.N1	15-OCT-2004 00:36:10	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	13726	No
15	GOM_NL__2PRFIN20041015_004353_000000952031_00145_13726_5031.N1	15-OCT-2004 00:43:53	Bright	94.500	17	78Bet Gem	1.1610	4500.0	189	13726	No
16	GOM_NL__2PRFIN20041015_005341_000000632031_00145_13726_5032.N1	15-OCT-2004 00:53:41	Dark	63.000	48	30Alp Hya	1.9770	4100.0	126	13726	No
17	GOM_NL__2PRFIN20041015_005749_000001392031_00145_13726_5033.N1	15-OCT-2004 00:57:49	Dark	138.50	8	10Alp CMi	0.40000	6500.0	277	13726	No
18	GOM_NL__2PRFIN20041015_010226_000000402031_00145_13726_5034.N1	15-OCT-2004 01:02:26	Dark	40.000	113	Mu Vel	2.6920	5000.0	80	13726	No
19	GOM_NL__2PRFIN20041015_010850_000000412031_00146_13727_5010.N1	15-OCT-2004 01:08:50	Dark	40.500	29	Bet Car	1.6720	10200.	81	13727	No
20	GOM_NL__2PRFIN20041015_011217_000001562031_00146_13727_5011.N1	15-OCT-2004 01:12:17	Dark	155.50	1	9Alp CMa	-1.4400	11000.	311	13727	No
21	GOM_NL__2PRFIN20041015_011645_000000682031_00146_13727_5012.N1	15-OCT-2004 01:16:45	Dark	67.500	108	Alp Col	2.6520	15200.	135	13727	No
22	GOM_NL__2PRFIN20041015_011953_000000392031_00146_13727_5013.N1	15-OCT-2004 01:19:53	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	13727	No
23	GOM_NL__2PRFIN20041015_012119_000000482031_00146_13727_5014.N1	15-OCT-2004 01:21:19	Dark	47.500	9	Alp Eri	0.45300	24000.	95	13727	No
24	GOM_NL__2PRFIN20041015_012351_000000472031_00146_13727_5015.N1	15-OCT-2004 01:23:51	Straylight	46.500	157	The1Eri	2.9060	9300.0	93	13727	No
25	GOM_NL__2PRFIN20041015_012620_000000462031_00146_13727_5016.N1	15-OCT-2004 01:26:20	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	13727	No
26	GOM_NL__2PRFIN20041015_013256_000000482031_00146_13727_5017.N1	15-OCT-2004 01:32:56	Straylight	48.000	52	16Bet Cet	2.0370	4500.0	96	13727	No
27	GOM_NL__2PRFIN20041015_014236_000000402031_00146_13727_5018.N1	15-OCT-2004 01:42:36	Bright	39.500	140	88Gam Peg	2.8340	26000.	79	13727	No
28	GOM_NL__2PRFIN20041015_014633_000000402031_00146_13727_5019.N1	15-OCT-2004 01:46:33	Bright	39.500	58	21Alp And	2.0730	11000.	79	13727	No
29	GOM_NL__2PRFIN20041015_014905_000000472031_00146_13727_5020.N1	15-OCT-2004 01:49:05	Bright	47.000	53	43Bet And	2.0480	3300.0	94	13727	No
30	GOM_NL__2PRFIN20041015_015048_000000472031_00146_13727_5021.N1	15-OCT-2004 01:50:48	Bright	47.000	173	4Bet Tri	3.0040	8900.0	94	13727	No
31	GOM_NL__2PRFIN20041015_015238_000000472031_00146_13727_5022.N1	15-OCT-2004 01:52:38	Bright	46.500	73	57Gam1And	2.2600	13100.	93	13727	No
32	GOM_NL__2PRFIN20041015_015437_000000432031_00146_13727_5023.N1	15-OCT-2004 01:54:37	Bright	42.500	68	18Alp Cas	2.2250	4500.0	85	13727	No
33	GOM_NL__2PRFIN20041015_015559_000000412031_00146_13727_5024.N1	15-OCT-2004 01:55:59	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	13727	No
34	GOM_NL__2PRFIN20041015_015758_000000492031_00146_13727_5025.N1	15-OCT-2004 01:57:58	Bright	48.500	160	23Gam Per	2.9300	4700.0	97	13727	No
35	GOM_NL__2PRFIN20041015_020001_000000702031_00146_13727_5026.N1	15-OCT-2004 02:00:01	Bright	69.500	149	45Eps Per	2.8880	30000.	139	13727	No
36	GOM_NL__2PRFIN20041015_020334_000000412031_00146_13727_5027.N1	15-OCT-2004 02:03:34	Bright	40.500	49	1Alp UMi	1.9900	6300.0	81	13727	No
37	GOM_NL__2PRFIN20041015_020634_000000402031_00146_13727_5028.N1	15-OCT-2004 02:06:34	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	13727	No
38	GOM_NL__2PRFIN20041015_021149_000000412031_00146_13727_5029.N1	15-OCT-2004 02:11:49	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	13727	No
39	GOM_NL__2PRFIN20041015_021321_000000412031_00146_13727_5030.N1	15-OCT-2004 02:13:21	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	13727	No
40	GOM_NL__2PRFIN20041015_021646_000000522031_00146_13727_5031.N1	15-OCT-2004 02:16:46	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	13727	No
41	GOM_NL__2PRFIN20041015_022429_000000992031_00146_13727_5032.N1	15-OCT-2004 02:24:29	Bright	99.000	17	78Bet Gem	1.1610	4500.0	198	13727	No
42	GOM_NL__2PRFIN20041015_023419_000000542031_00146_13727_5033.N1	15-OCT-2004 02:34:19	Dark	54.000	48	30Alp Hya	1.9770	4100.0	108	13727	No





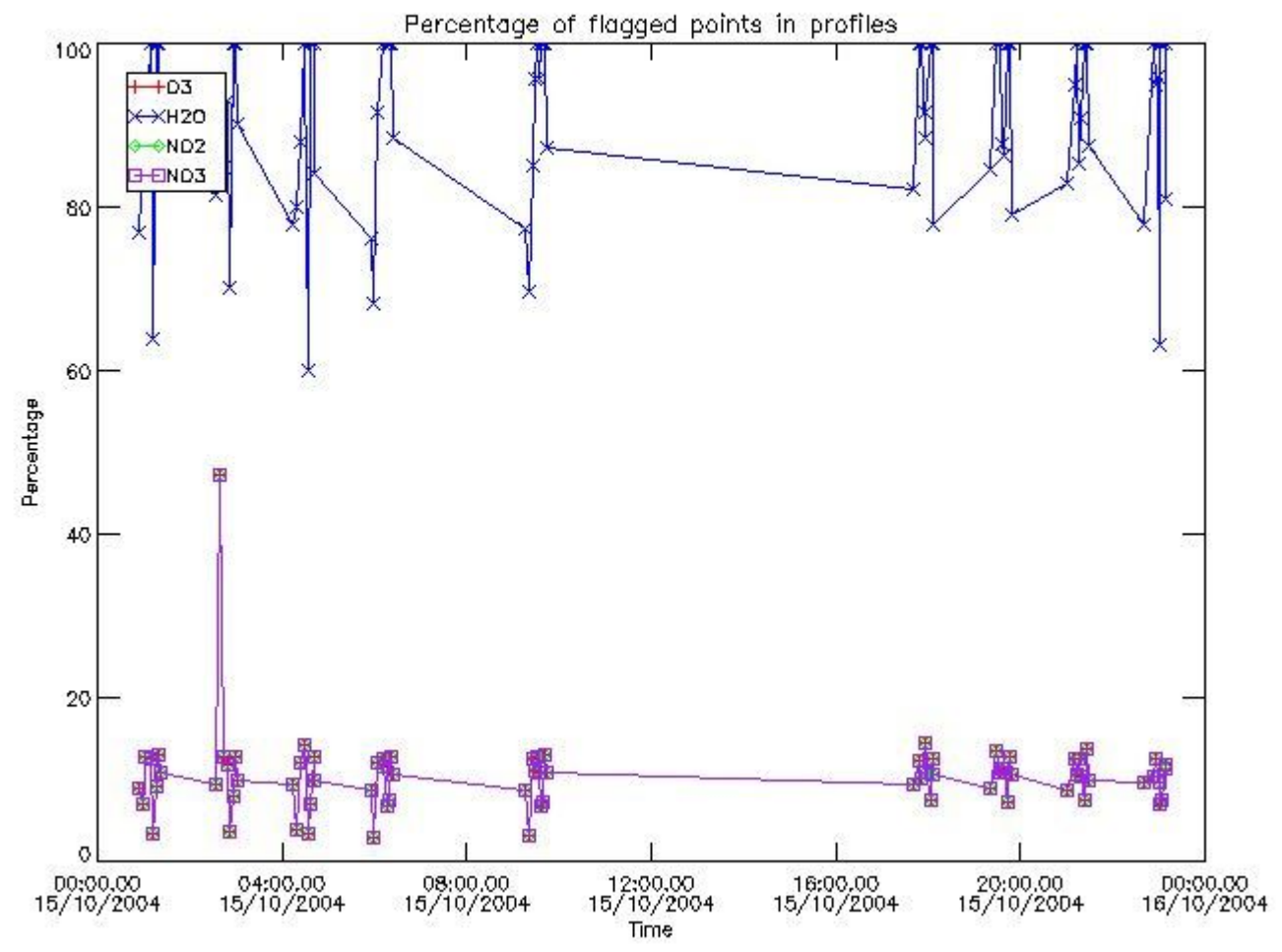


220	GOM_NL__2PRFIN20041015_210940_000000412031_00157_13738_5059.N1	15-OCT-2004 21:09:40	Dark	40.500	113	Mu Vel	2.6920	5000.0	81	13738	No
221	GOM_NL__2PRFIN20041015_211258_000000482031_00157_13738_5060.N1	15-OCT-2004 21:12:58	Dark	48.000	70	Zet Pup	2.2460	39000.	96	13738	No
222	GOM_NL__2PRFIN20041015_211604_000000412031_00158_13739_5034.N1	15-OCT-2004 21:16:04	Dark	41.000	29	Bet Car	1.6720	10200.	82	13739	No
223	GOM_NL__2PRFIN20041015_211801_000000492031_00158_13739_5035.N1	15-OCT-2004 21:18:01	Dark	49.000	161	Tau Pup	2.9310	4500.0	98	13739	No
224	GOM_NL__2PRFIN20041015_212413_000000692031_00158_13739_5036.N1	15-OCT-2004 21:24:13	Dark	68.500	108	Alp Col	2.6520	15200.	137	13739	No
225	GOM_NL__2PRFIN20041015_212706_000000412031_00158_13739_5037.N1	15-OCT-2004 21:27:06	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	13739	No
226	GOM_NL__2PRFIN20041015_212833_000000522031_00158_13739_5038.N1	15-OCT-2004 21:28:33	Dark	52.000	9	Alp Eri	0.45300	24000.	104	13739	No
227	GOM_NL__2PRFIN20041015_213107_000000492031_00158_13739_5039.N1	15-OCT-2004 21:31:07	Straylight	48.500	157	The1Eri	2.9060	9300.0	97	13739	No
228	GOM_NL__2PRFIN20041015_213333_000000482031_00158_13739_5040.N1	15-OCT-2004 21:33:33	Straylight	48.000	84	Alp Phe	2.3970	4500.0	96	13739	No
229	GOM_NL__2PRFIN20041015_214009_000000472031_00158_13739_5041.N1	15-OCT-2004 21:40:09	Straylight	46.500	52	16Bet Cet	2.0370	4500.0	93	13739	No
230	GOM_NL__2PRFIN20041015_214948_000000372031_00158_13739_5042.N1	15-OCT-2004 21:49:48	Bright	37.000	140	88Gam Peg	2.8340	26000.	74	13739	No
231	GOM_NL__2PRFIN20041015_215344_000000412031_00158_13739_5043.N1	15-OCT-2004 21:53:44	Bright	40.500	58	21Alp And	2.0730	11000.	81	13739	No
232	GOM_NL__2PRFIN20041015_215614_000000402031_00158_13739_5044.N1	15-OCT-2004 21:56:14	Bright	40.000	53	43Bet And	2.0480	3300.0	80	13739	No
233	GOM_NL__2PRFIN20041015_215751_000000692031_00158_13739_5045.N1	15-OCT-2004 21:57:51	Bright	69.000	173	4Bet Tri	3.0040	8900.0	138	13739	No
234	GOM_NL__2PRFIN20041015_215942_000000492031_00158_13739_5046.N1	15-OCT-2004 21:59:42	Bright	48.500	73	57Gam1And	2.2600	13100.	97	13739	No
235	GOM_NL__2PRFIN20041015_220147_000000392031_00158_13739_5047.N1	15-OCT-2004 22:01:47	Bright	39.000	68	18Alp Cas	2.2250	4500.0	78	13739	No
236	GOM_NL__2PRFIN20041015_220308_000000412031_00158_13739_5048.N1	15-OCT-2004 22:03:08	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	13739	No
237	GOM_NL__2PRFIN20041015_220439_000000402031_00158_13739_5049.N1	15-OCT-2004 22:04:39	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	13739	No
238	GOM_NL__2PRFIN20041015_220620_000000542031_00158_13739_5050.N1	15-OCT-2004 22:06:20	Bright	54.000	175	39Del Per	3.0100	19400.	108	13739	No
239	GOM_NL__2PRFIN20041015_221045_000000422031_00158_13739_5051.N1	15-OCT-2004 22:10:45	Bright	41.500	49	1Alp UMi	1.9900	6300.0	83	13739	No
240	GOM_NL__2PRFIN20041015_221346_000000382031_00158_13739_5052.N1	15-OCT-2004 22:13:46	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	13739	No
241	GOM_NL__2PRFIN20041015_221901_000000402031_00158_13739_5053.N1	15-OCT-2004 22:19:01	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	13739	No
242	GOM_NL__2PRFIN20041015_222035_000000392031_00158_13739_5054.N1	15-OCT-2004 22:20:35	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	13739	No
243	GOM_NL__2PRFIN20041015_222358_000000392031_00158_13739_5055.N1	15-OCT-2004 22:23:58	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	13739	No
244	GOM_NL__2PRFIN20041015_222937_000000882031_00158_13739_5056.N1	15-OCT-2004 22:29:37	Bright	88.000	24	66Alp Gem	1.5800	10200.	176	13739	No
245	GOM_NL__2PRFIN20041015_223413_000000572031_00158_13739_5057.N1	15-OCT-2004 22:34:13	Bright	57.000	22	32Alp Leo	1.3600	15200.	114	13739	No
246	GOM_NL__2PRFIN20041015_224139_000000532031_00158_13739_5058.N1	15-OCT-2004 22:41:39	Dark	52.500	48	30Alp Hya	1.9770	4100.0	105	13739	No
247	GOM_NL__2PRFIN20041015_225334_000000492031_00158_13739_5059.N1	15-OCT-2004 22:53:34	Dark	49.000	70	Zet Pup	2.2460	39000.	98	13739	No
248	GOM_NL__2PRFIN20041015_225640_000000412031_00159_13740_5034.N1	15-OCT-2004 22:56:40	Dark	40.500	29	Bet Car	1.6720	10200.	81	13740	No
249	GOM_NL__2PRFIN20041015_225839_000000492031_00159_13740_5035.N1	15-OCT-2004 22:58:39	Dark	49.000	161	Tau Pup	2.9310	4500.0	98	13740	No
250	GOM_NL__2PRFIN20041015_230000_000000542031_00159_13740_5036.N1	15-OCT-2004 23:00:00	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	13740	No
251	GOM_NL__2PRFIN20041015_230142_000000732031_00159_13740_5037.N1	15-OCT-2004 23:01:42	Dark	72.500	177	1Zet CMa	3.0220	26000.	145	13740	No
252	GOM_NL__2PRFIN20041015_230451_000000682031_00159_13740_5038.N1	15-OCT-2004 23:04:51	Dark	67.500	108	Alp Col	2.6520	15200.	135	13740	No
253	GOM_NL__2PRFIN20041015_230743_000000432031_00159_13740_5039.N1	15-OCT-2004 23:07:43	Dark	43.000	143	Alp Hyi	2.8570	7200.0	86	13740	No
254	GOM_NL__2PRFIN20041015_230910_000000452031_00159_13740_5040.N1	15-OCT-2004 23:09:10	Dark	45.000	9	Alp Eri	0.45300	24000.	90	13740	No
255	GOM_NL__2PRFIN20041015_231143_000000512031_00159_13740_5041.N1	15-OCT-2004 23:11:43	Straylight	50.500	157	The1Eri	2.9060	9300.0	101	13740	No
256	GOM_NL__2PRFIN20041015_231409_000000452031_00159_13740_5042.N1	15-OCT-2004 23:14:09	Straylight	45.000	84	Alp Phe	2.3970	4500.0	90	13740	No
257	GOM_NL__2PRFIN20041015_232046_000000442031_00159_13740_5043.N1	15-OCT-2004 23:20:46	Straylight	43.500	52	16Bet Cet	2.0370	4500.0	87	13740	No
258	GOM_NL__2PRFIN20041015_233024_000000382031_00159_13740_5044.N1	15-OCT-2004 23:30:24	Bright	37.500	140	88Gam Peg	2.8340	26000.	75	13740	No
259	GOM_NL__2PRFIN20041015_233421_000000382031_00159_13740_5045.N1	15-OCT-2004 23:34:21	Bright	38.000	58	21Alp And	2.0730	11000.	76	13740	No
260	GOM_NL__2PRFIN20041015_233649_000000432031_00159_13740_5046.N1	15-OCT-2004 23:36:49	Bright	43.000	53	43Bet And	2.0480	3300.0	86	13740	No
261	GOM_NL__2PRFIN20041015_233825_000000482031_00159_13740_5047.N1	15-OCT-2004 23:38:25	Bright	48.000	173	4Bet Tri	3.0040	8900.0	96	13740	No
262	GOM_NL__2PRFIN20041015_234017_000000432031_00159_13740_5048.N1	15-OCT-2004 23:40:17	Bright	43.000	73	57Gam1And	2.2600	13100.	86	13740	No
263	GOM_NL__2PRFIN20041015_234222_000000402031_00159_13740_5049.N1	15-OCT-2004 23:42:22	Bright	39.500	68	18Alp Cas	2.2250	4500.0	79	13740	No
264	GOM_NL__2PRFIN20041015_234344_000000402031_00159_13740_5050.N1	15-OCT-2004 23:43:44	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	13740	No
265	GOM_NL__2PRFIN20041015_234515_000000382031_00159_13740_5051.N1	15-OCT-2004 23:45:15	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	13740	No
266	GOM_NL__2PRFIN20041015_234725_000000682031_00159_13740_5052.N1	15-OCT-2004 23:47:25	Bright	67.500	149	45Eps Per	2.8880	30000.	135	13740	No
267	GOM_NL__2PRFIN20041015_235123_000000392031_00159_13740_5053.N1	15-OCT-2004 23:51:23	Bright	38.500	49	1Alp UMi	1.9900	6300.0	77	13740	No
268	GOM_NL__2PRFIN20041015_235424_000000412031_00159_13740_5054.N1	15-OCT-2004 23:54:24	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	13740	No
269	GOM_NL__2PRFIN20041015_235936_000000402031_00159_13740_5055.N1	15-OCT-2004 23:59:36	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	13740	No

### 3. Quality information per product

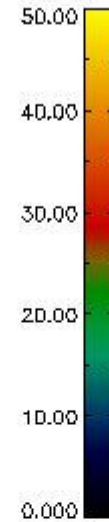
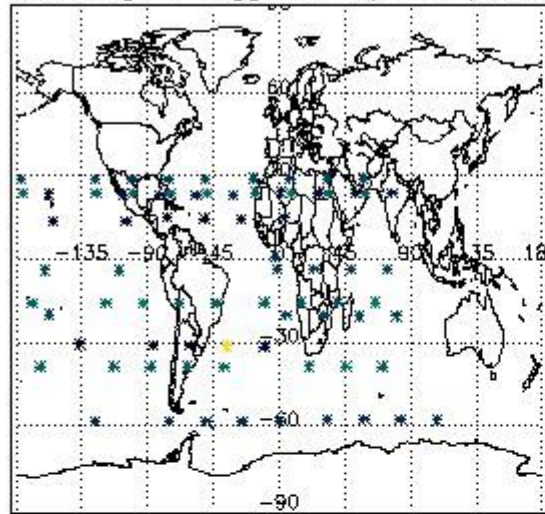
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

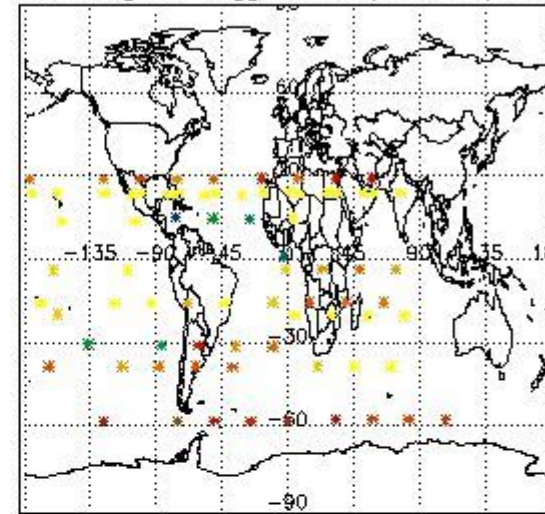


3.2 Plot quality information per product (world map)

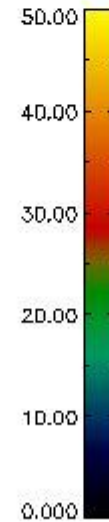
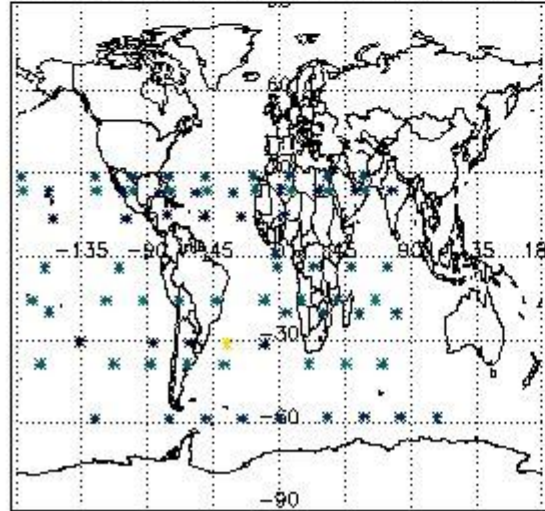
Percentage of flagged data per O3 profile



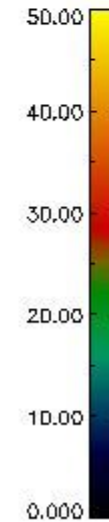
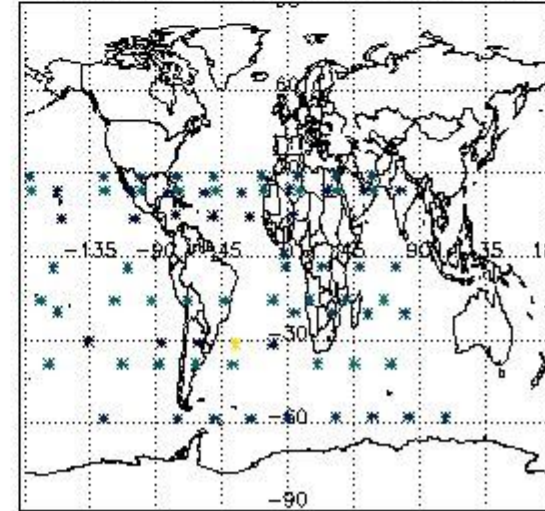
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile



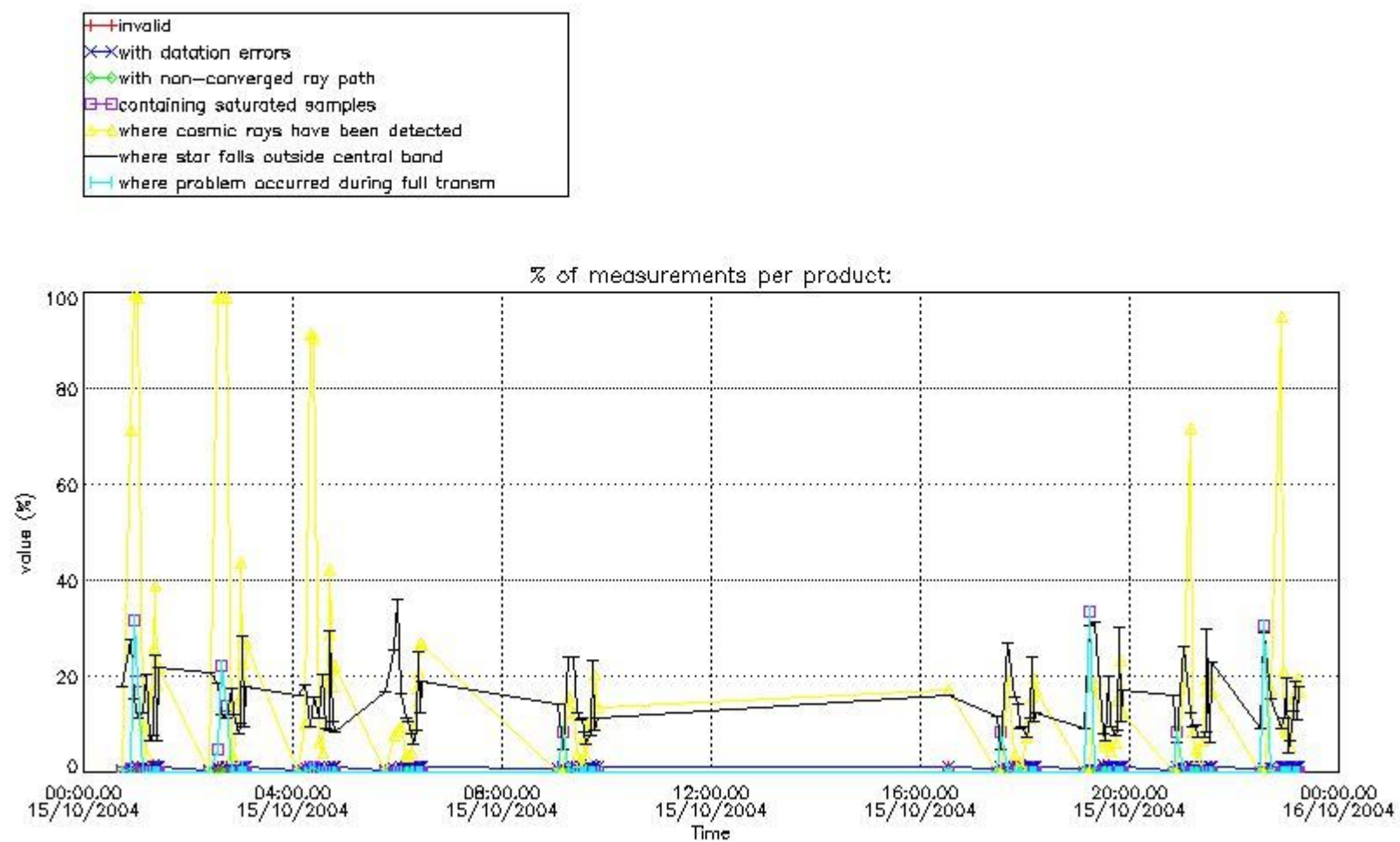
#### 4. Level 1 quality information per product

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.

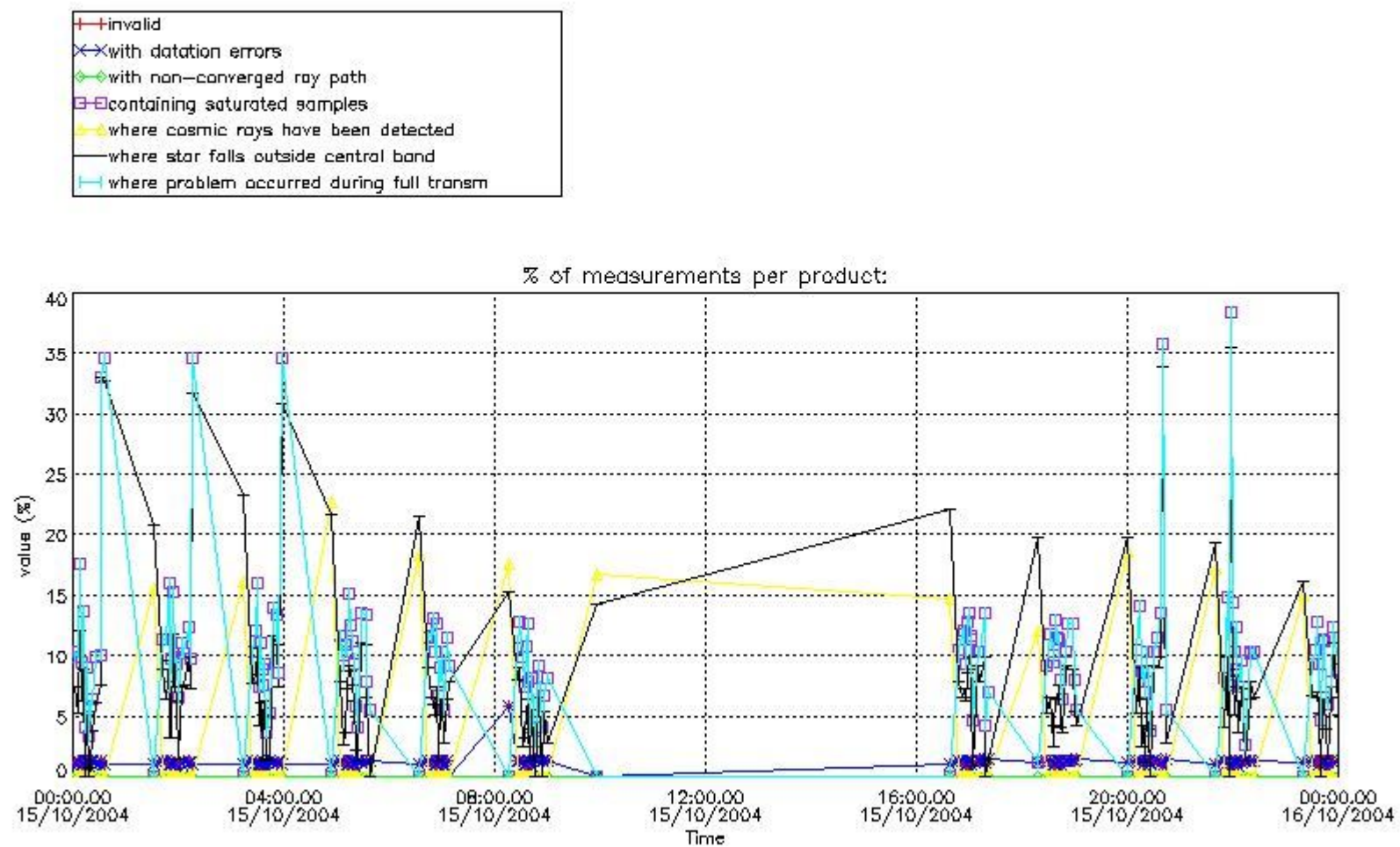
##### 4.1 Plot quality information per product (time dependant) coming from level 1b processing

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





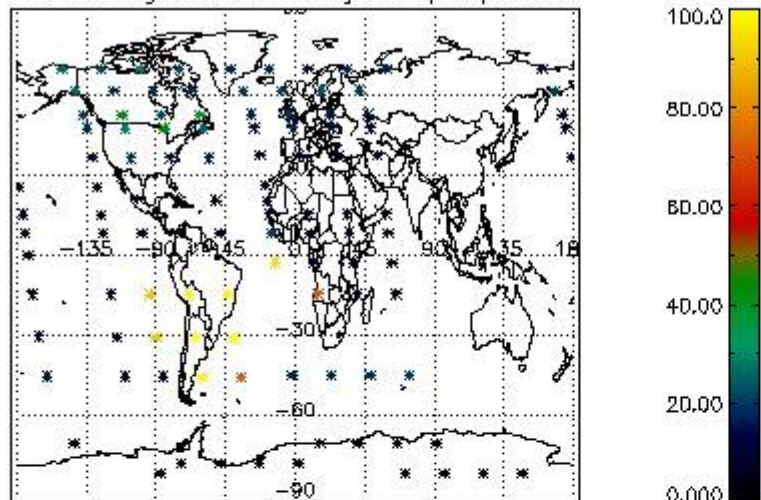
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



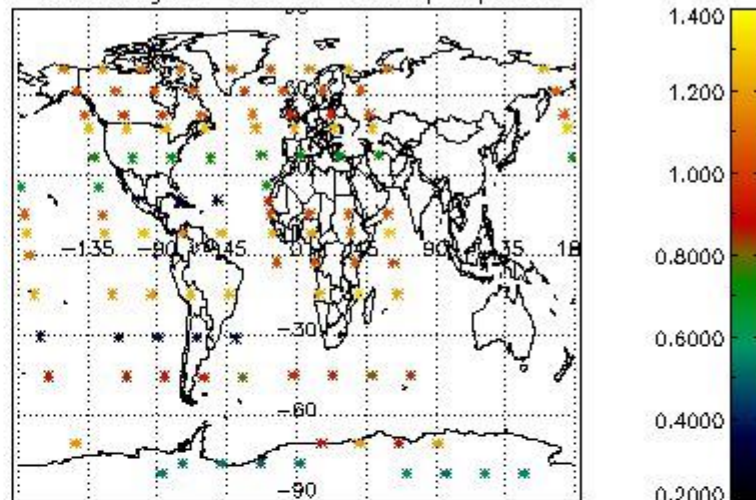
4.2 Plot quality information per product coming from level 1b processing (world map)

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

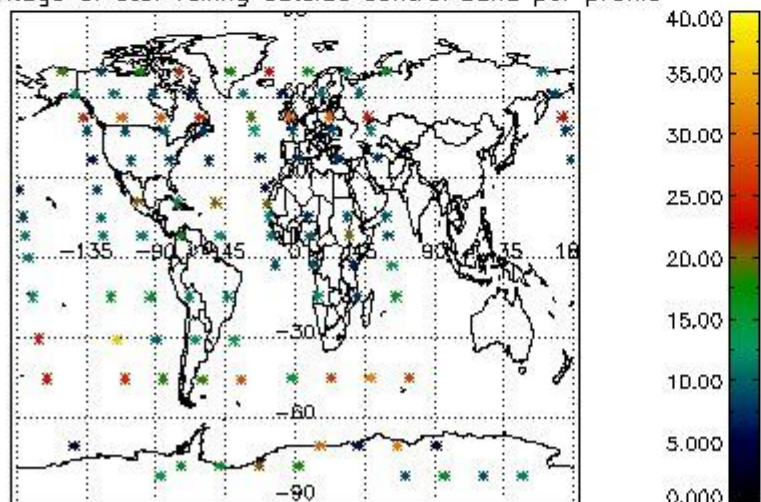
Percentage of cosmic ray hits per profile



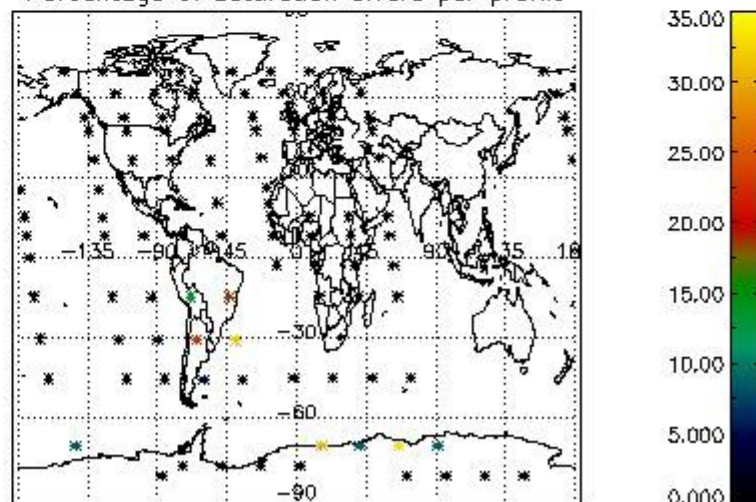
Percentage of datation errors per profile



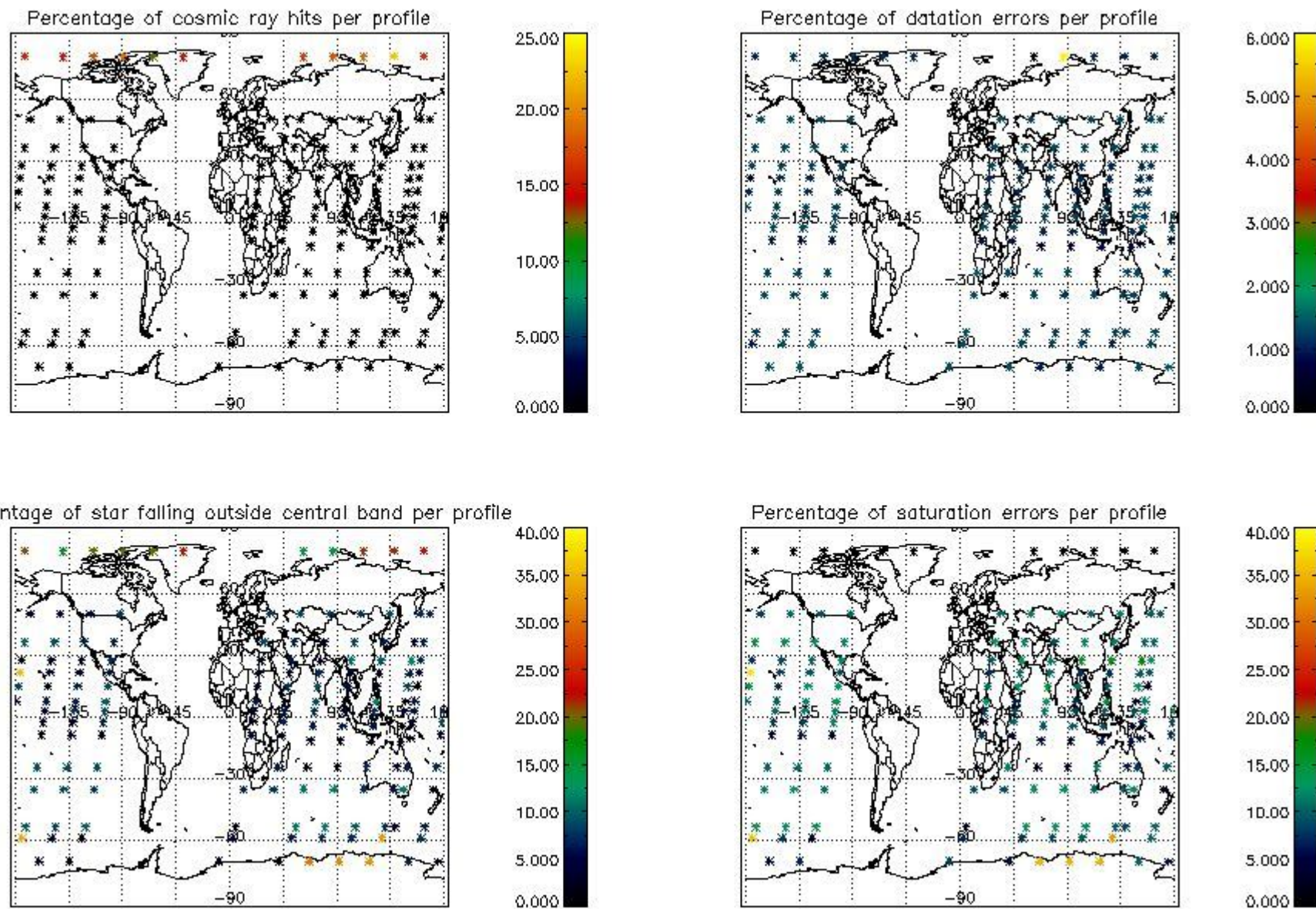
Percentage of star falling outside central band per profile



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

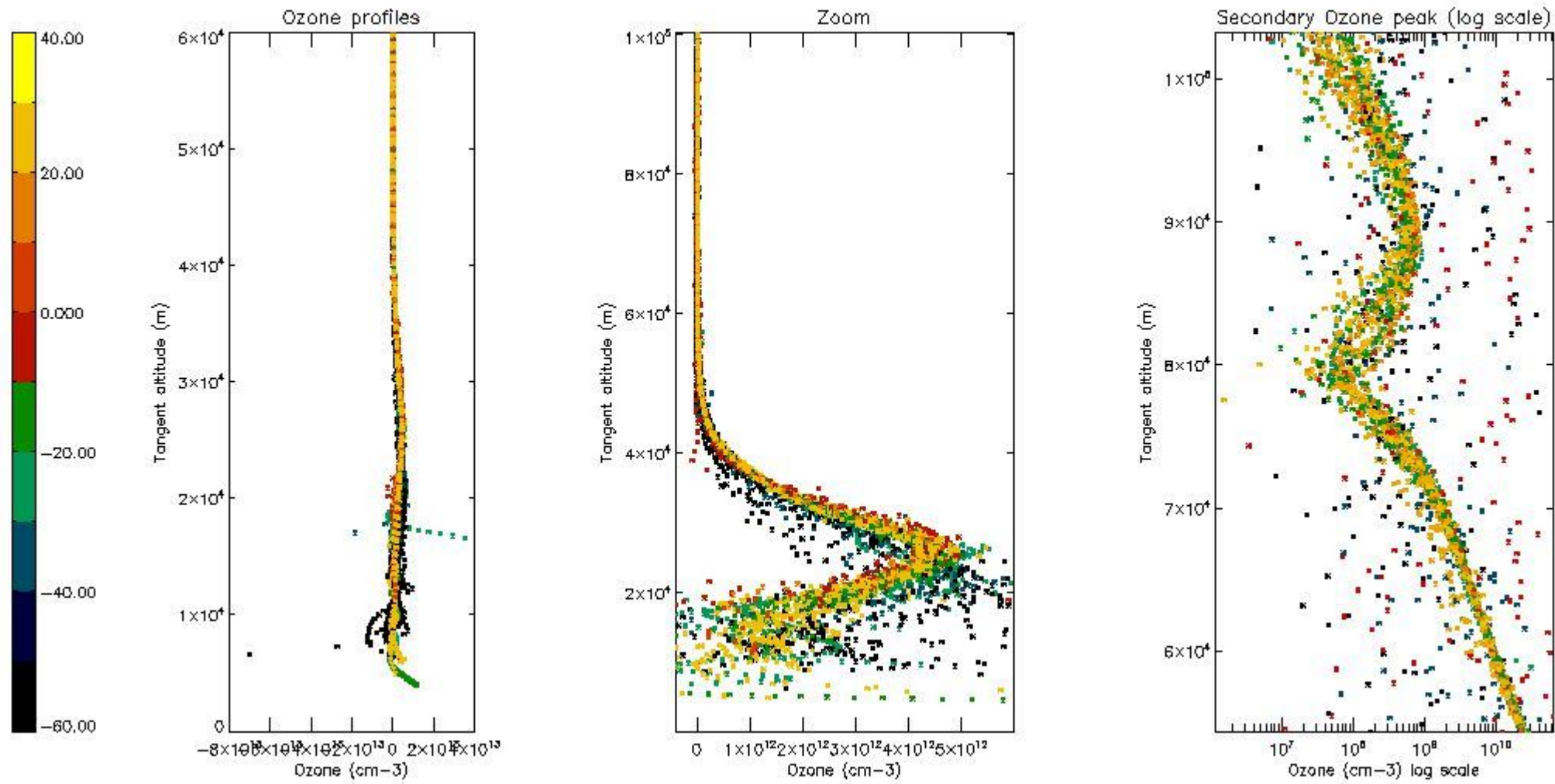
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	36
STD < 20	20

STD < 10	17
STD < 5	13

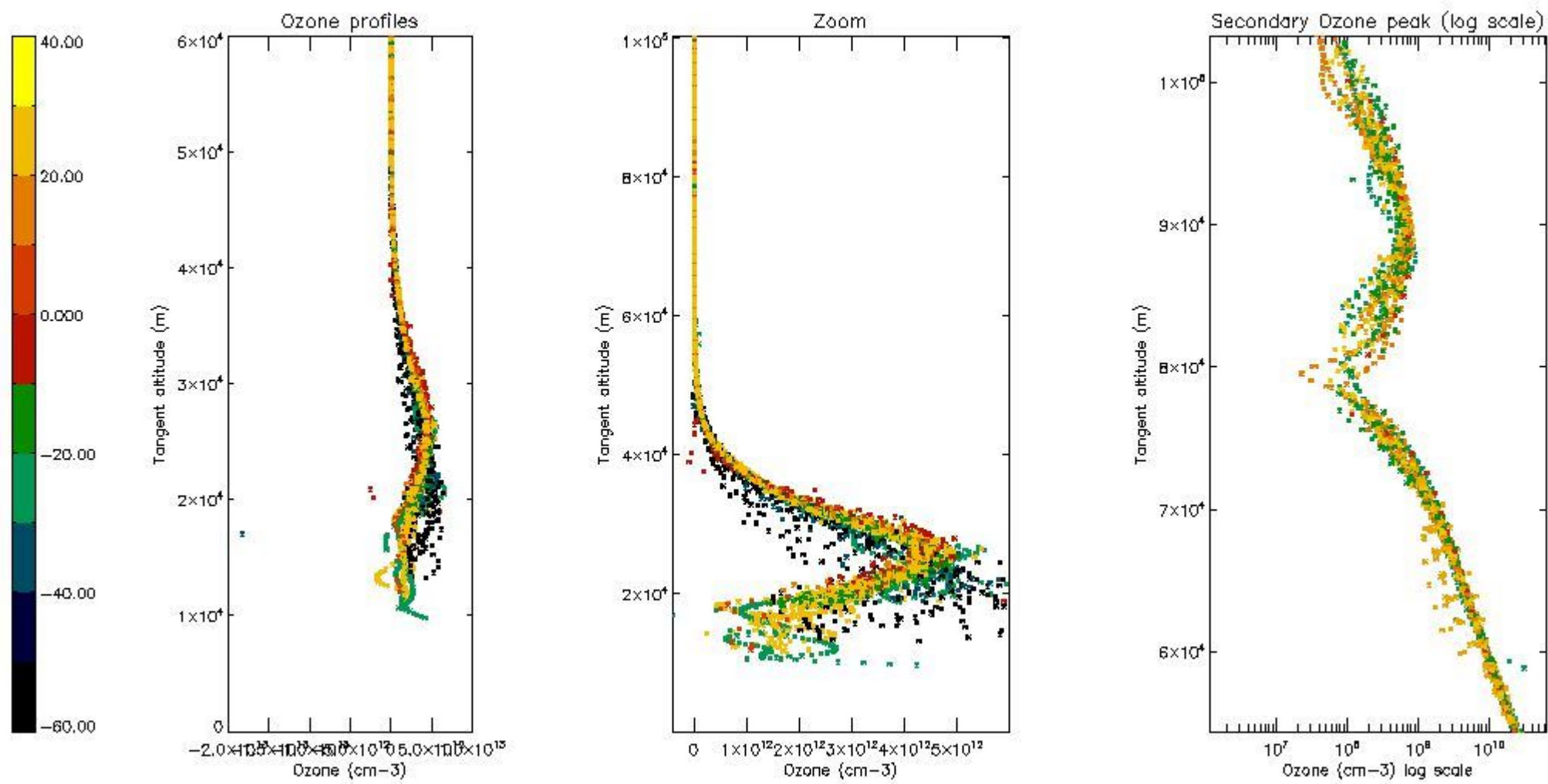
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



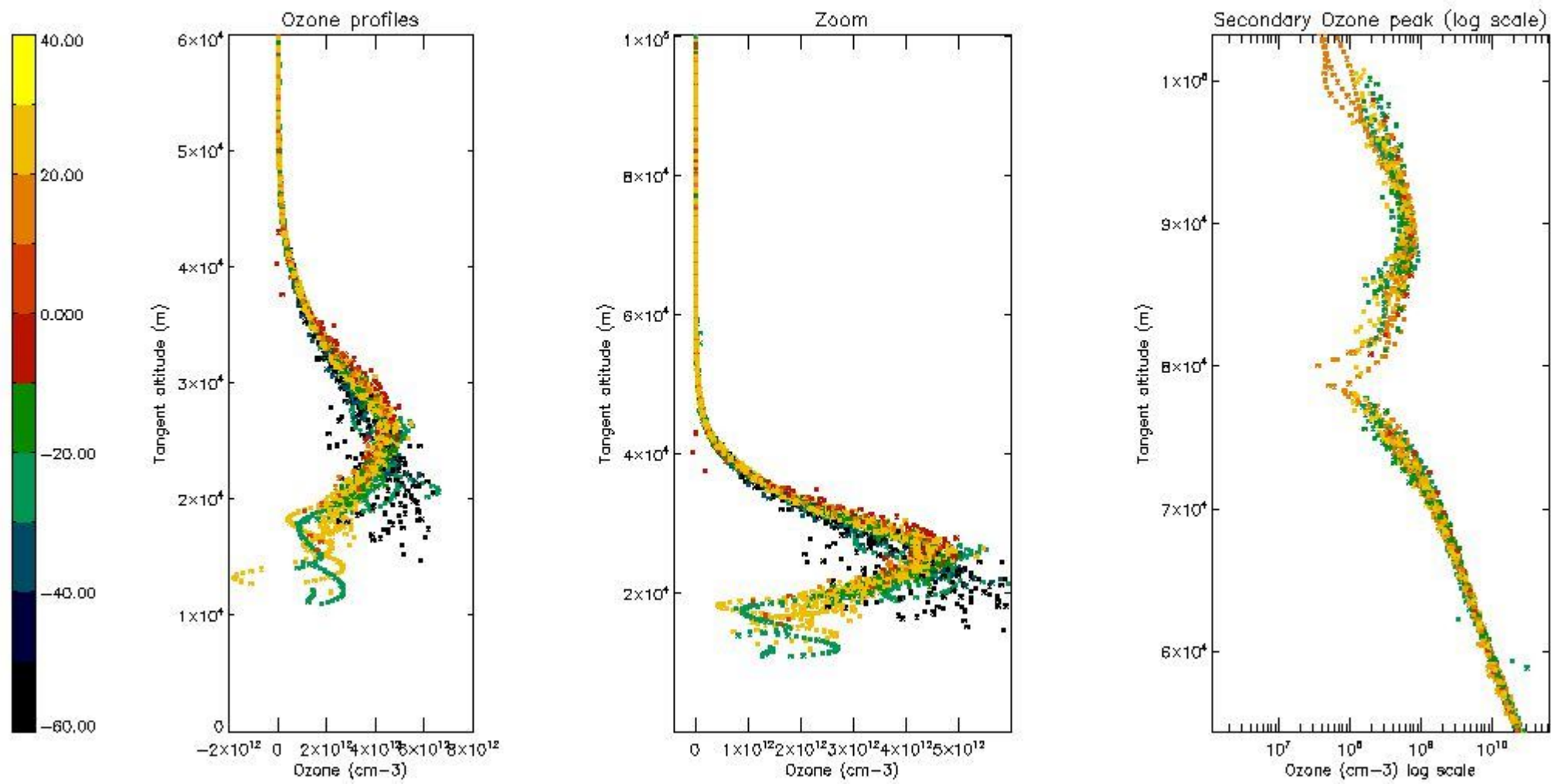
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



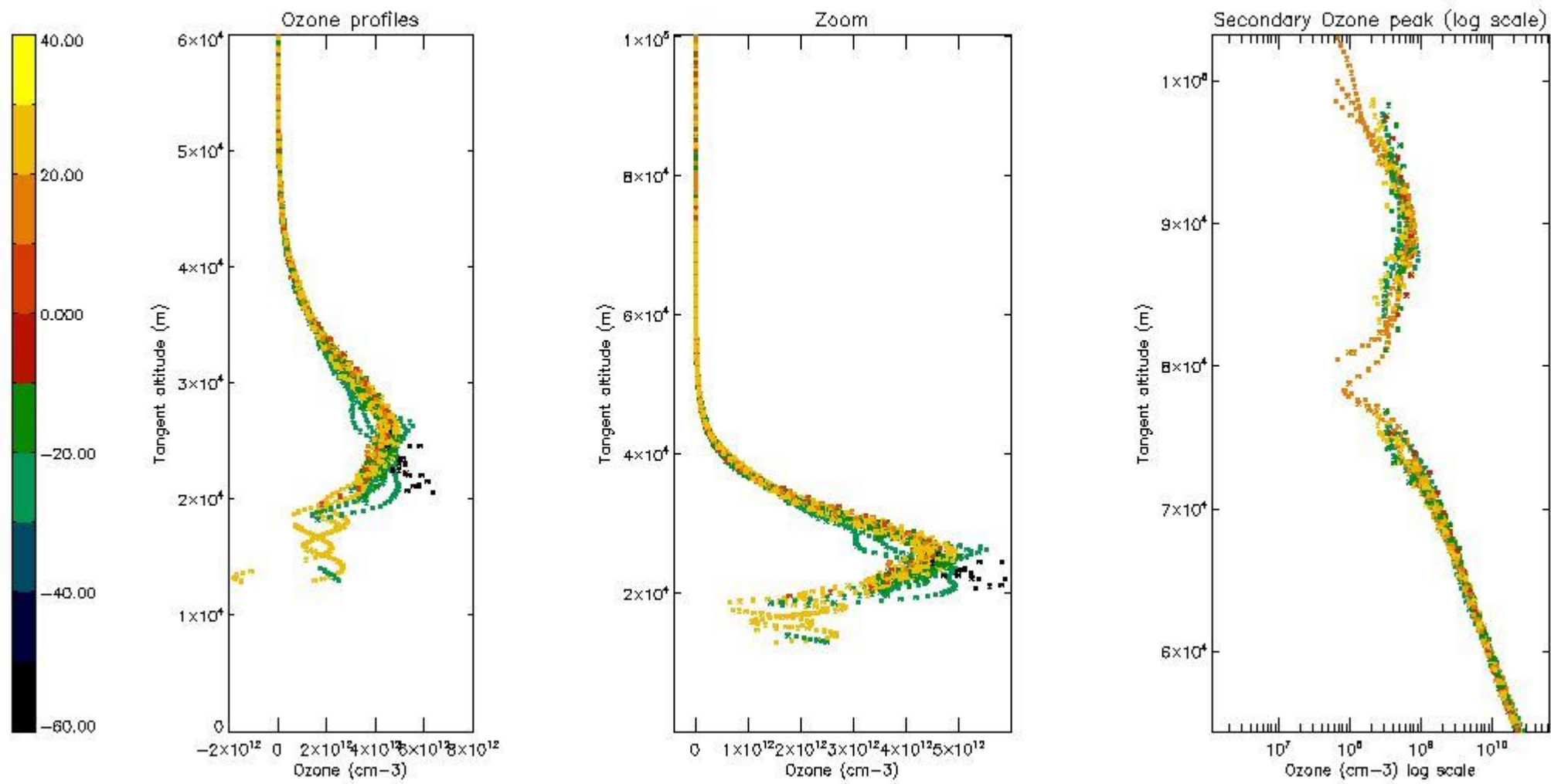
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



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

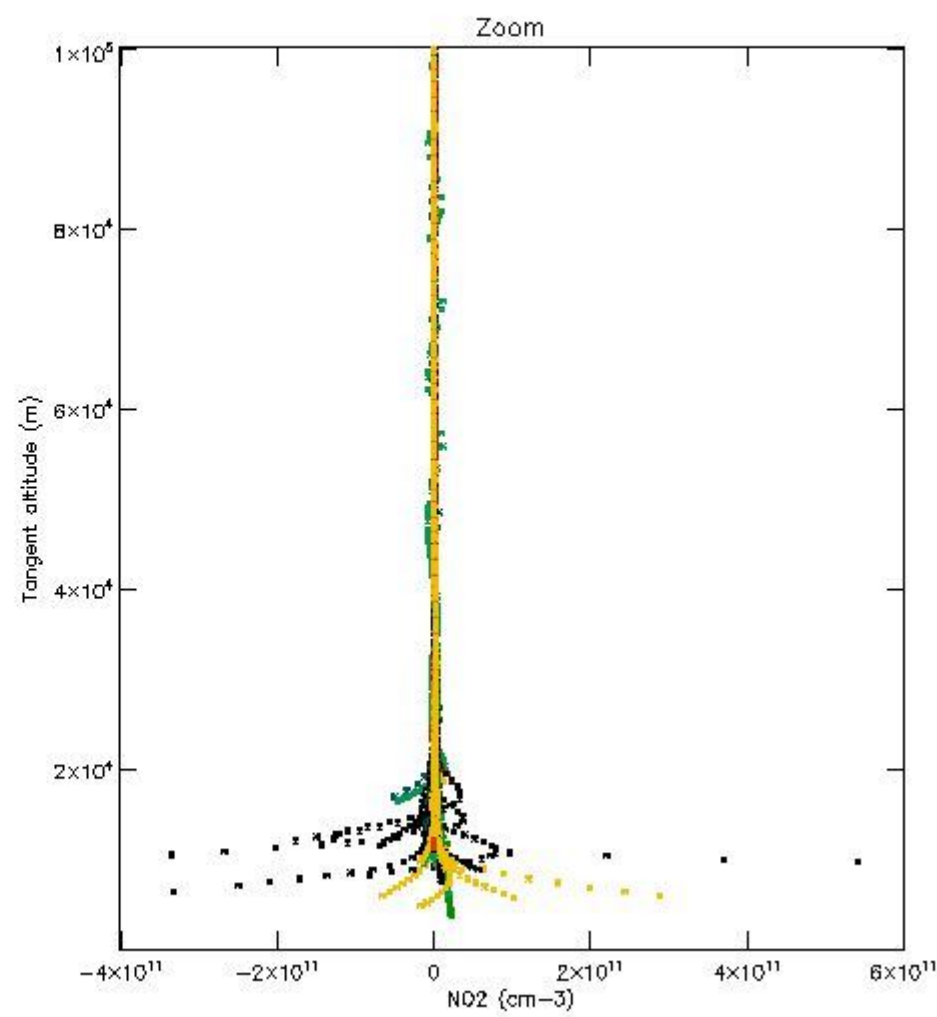
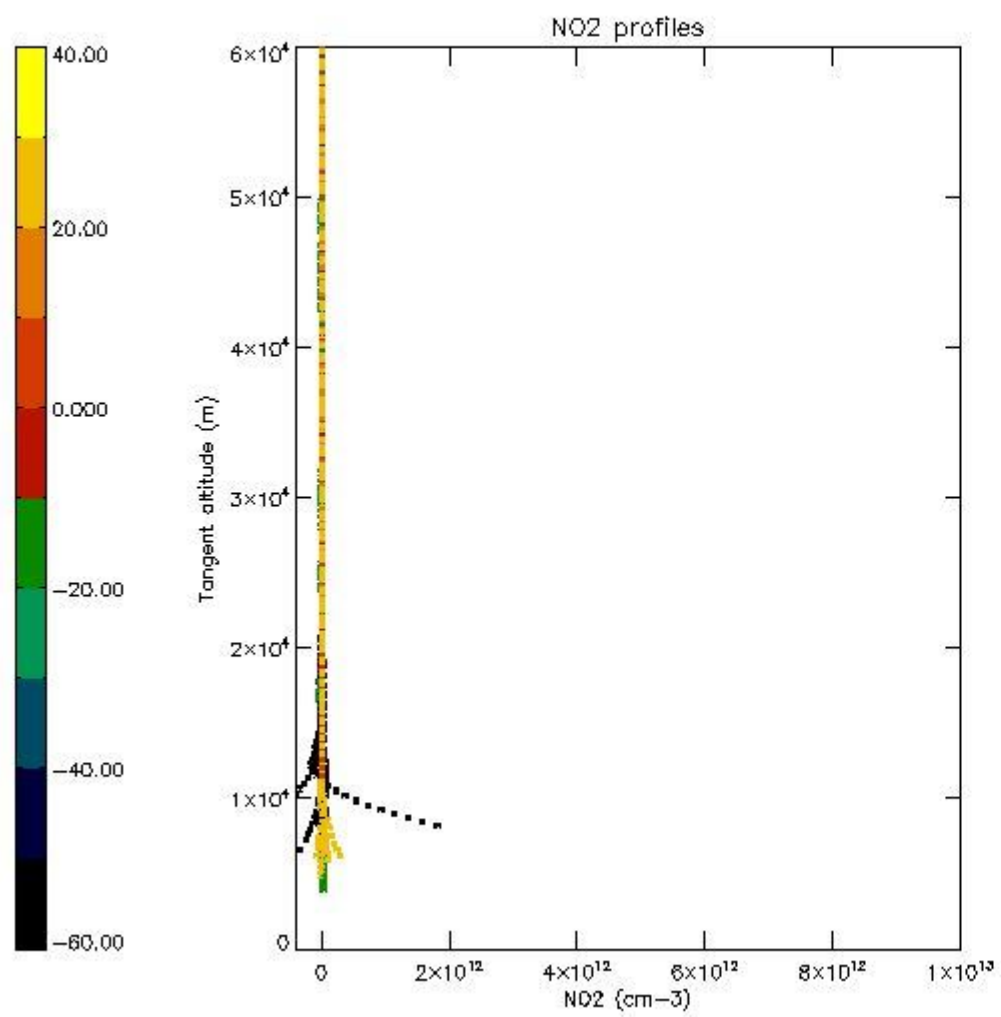
The colorbar represents the latitude.



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

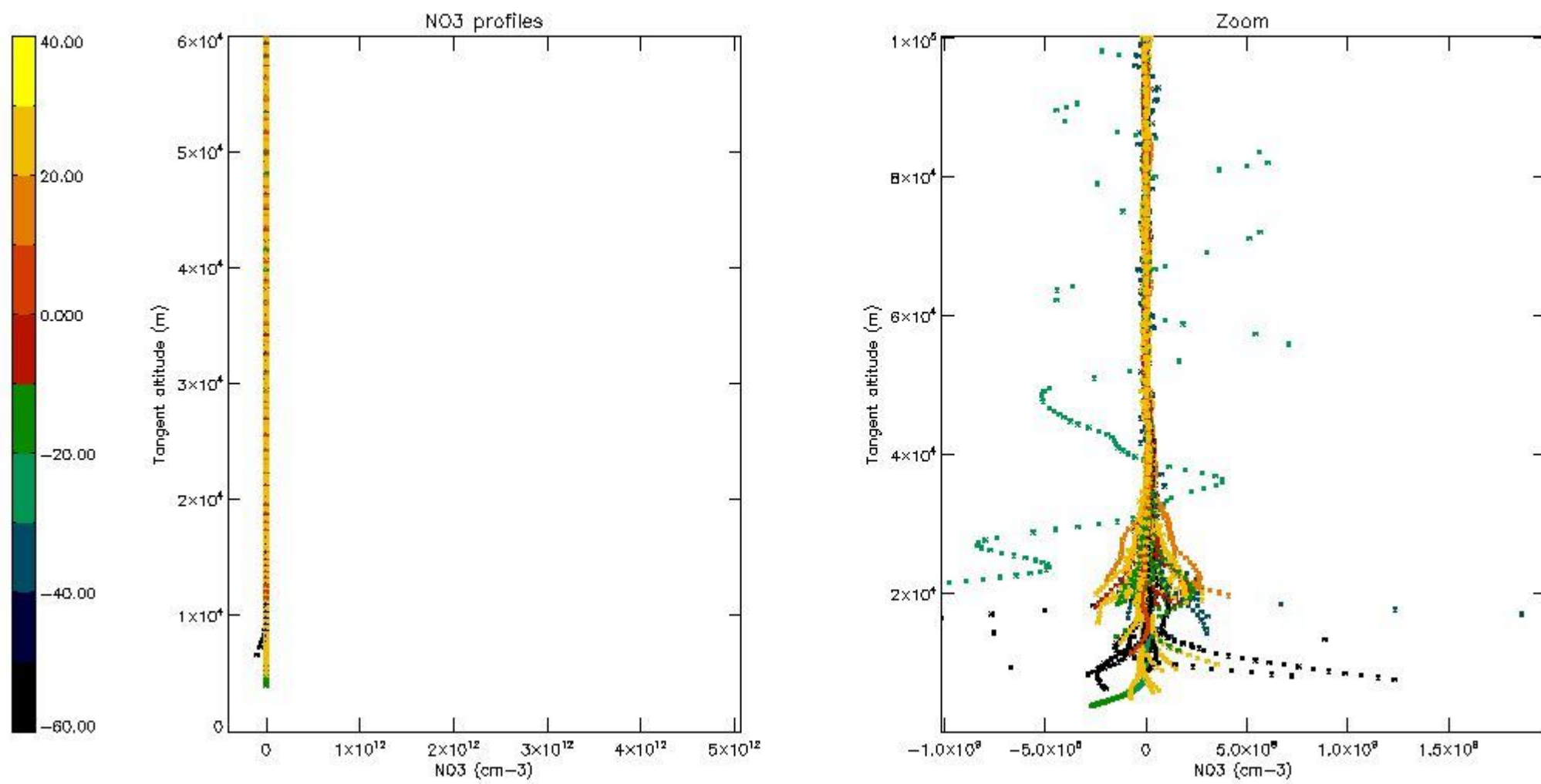
The colorbar represents the latitude.





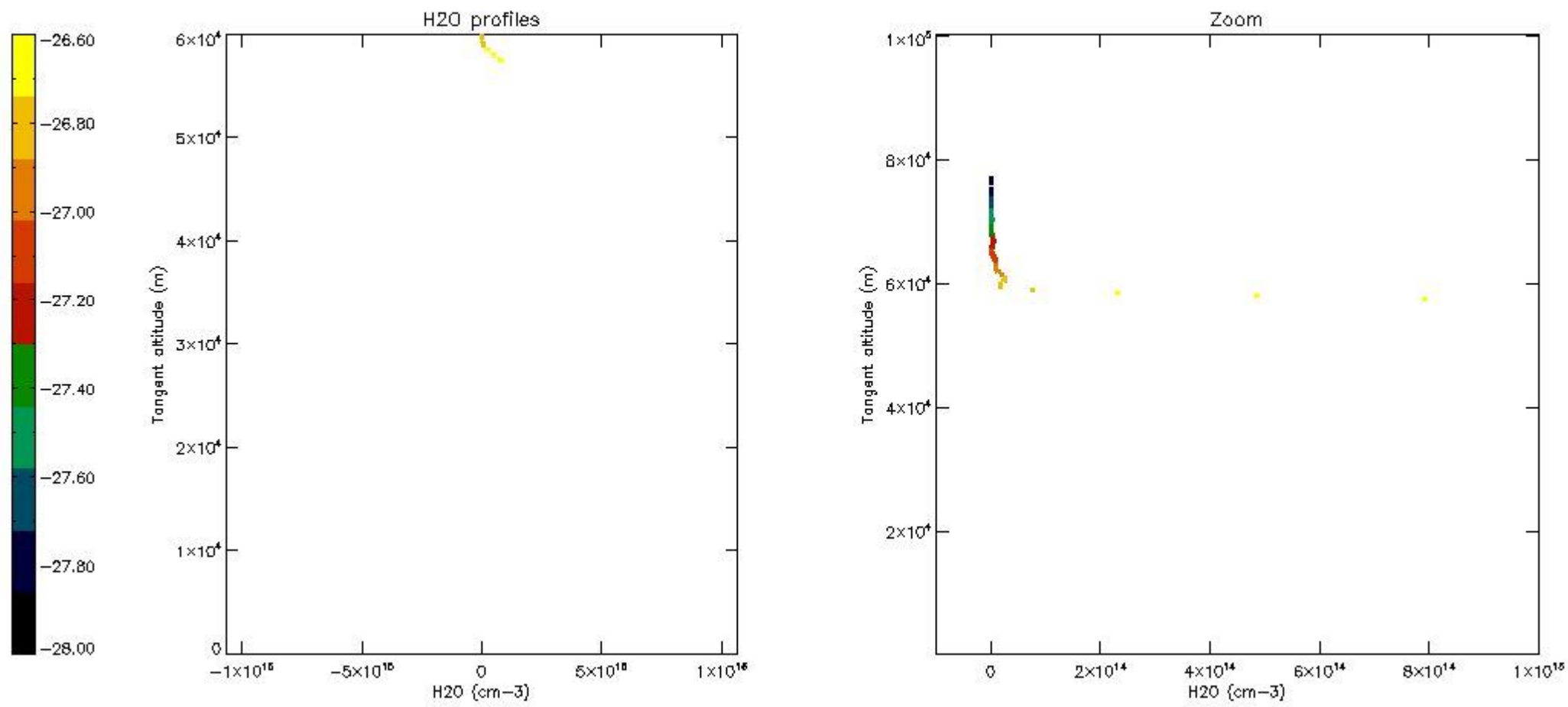
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	15-OCT-2004 00:01:58
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	15-OCT-2004 00:01:58
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	15-OCT-2004 00:01:58

# GOMOS Level 2 Daily Report

## SUMMARY

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

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

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

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

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

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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	19APR2013 13:15:55
Data source version	GOMOS/6.01
Start time of products	15-10-2004 (15OCT2004 00:00:00)
Stop time of products	16-10-2004 (16OCT2004 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	269
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__2PRFIN20041015_000158_000000412031_00145_13726_5017.N1	15-OCT-2004 00:01:58	Bright	40.500	140	88Gam Peg	2.8340	26000.	81	13726	No
2	GOM_NL__2PRFIN20041015_000557_000000392031_00145_13726_5018.N1	15-OCT-2004 00:05:57	Bright	38.500	58	21Alp And	2.0730	11000.	77	13726	No
3	GOM_NL__2PRFIN20041015_000831_000000462031_00145_13726_5019.N1	15-OCT-2004 00:08:31	Bright	45.500	53	43Bet And	2.0480	3300.0	91	13726	No
4	GOM_NL__2PRFIN20041015_001013_000000482031_00145_13726_5020.N1	15-OCT-2004 00:10:13	Bright	47.500	173	4Bet Tri	3.0040	8900.0	95	13726	No
5	GOM_NL__2PRFIN20041015_001201_000000512031_00145_13726_5021.N1	15-OCT-2004 00:12:01	Bright	51.000	73	57Gam1And	2.2600	13100.	102	13726	No
6	GOM_NL__2PRFIN20041015_001401_000000372031_00145_13726_5022.N1	15-OCT-2004 00:14:01	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	13726	No
7	GOM_NL__2PRFIN20041015_001523_000000392031_00145_13726_5023.N1	15-OCT-2004 00:15:23	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	13726	No
8	GOM_NL__2PRFIN20041015_001723_000000452031_00145_13726_5024.N1	15-OCT-2004 00:17:23	Bright	44.500	160	23Gam Per	2.9300	4700.0	89	13726	No
9	GOM_NL__2PRFIN20041015_001927_000000692031_00145_13726_5025.N1	15-OCT-2004 00:19:27	Bright	69.000	149	45Eps Per	2.8880	30000.	138	13726	No
10	GOM_NL__2PRFIN20041015_002258_000000402031_00145_13726_5026.N1	15-OCT-2004 00:22:58	Bright	39.500	49	1Alp UMi	1.9900	6300.0	79	13726	No
11	GOM_NL__2PRFIN20041015_002556_000000412031_00145_13726_5027.N1	15-OCT-2004 00:25:56	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	13726	No
12	GOM_NL__2PRFIN20041015_003113_000000402031_00145_13726_5028.N1	15-OCT-2004 00:31:13	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	13726	No
13	GOM_NL__2PRFIN20041015_003246_000000532031_00145_13726_5029.N1	15-OCT-2004 00:32:46	Bright	53.000	82	48Bet UMa	2.3650	10600.	106	13726	No
14	GOM_NL__2PRFIN20041015_003610_000000522031_00145_13726_5030.N1	15-OCT-2004 00:36:10	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	13726	No
15	GOM_NL__2PRFIN20041015_004353_000000952031_00145_13726_5031.N1	15-OCT-2004 00:43:53	Bright	94.500	17	78Bet Gem	1.1610	4500.0	189	13726	No
16	GOM_NL__2PRFIN20041015_005341_000000632031_00145_13726_5032.N1	15-OCT-2004 00:53:41	Dark	63.000	48	30Alp Hya	1.9770	4100.0	126	13726	No
17	GOM_NL__2PRFIN20041015_005749_000001392031_00145_13726_5033.N1	15-OCT-2004 00:57:49	Dark	138.50	8	10Alp CMi	0.40000	6500.0	277	13726	No
18	GOM_NL__2PRFIN20041015_010226_000000402031_00145_13726_5034.N1	15-OCT-2004 01:02:26	Dark	40.000	113	Mu Vel	2.6920	5000.0	80	13726	No
19	GOM_NL__2PRFIN20041015_010850_000000412031_00146_13727_5010.N1	15-OCT-2004 01:08:50	Dark	40.500	29	Bet Car	1.6720	10200.	81	13727	No
20	GOM_NL__2PRFIN20041015_011217_000001562031_00146_13727_5011.N1	15-OCT-2004 01:12:17	Dark	155.50	1	9Alp CMa	-1.4400	11000.	311	13727	No
21	GOM_NL__2PRFIN20041015_011645_000000682031_00146_13727_5012.N1	15-OCT-2004 01:16:45	Dark	67.500	108	Alp Col	2.6520	15200.	135	13727	No
22	GOM_NL__2PRFIN20041015_011953_000000392031_00146_13727_5013.N1	15-OCT-2004 01:19:53	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	13727	No
23	GOM_NL__2PRFIN20041015_012119_000000482031_00146_13727_5014.N1	15-OCT-2004 01:21:19	Dark	47.500	9	Alp Eri	0.45300	24000.	95	13727	No
24	GOM_NL__2PRFIN20041015_012351_000000472031_00146_13727_5015.N1	15-OCT-2004 01:23:51	Straylight	46.500	157	The1Eri	2.9060	9300.0	93	13727	No
25	GOM_NL__2PRFIN20041015_012620_000000462031_00146_13727_5016.N1	15-OCT-2004 01:26:20	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	13727	No
26	GOM_NL__2PRFIN20041015_013256_000000482031_00146_13727_5017.N1	15-OCT-2004 01:32:56	Straylight	48.000	52	16Bet Cet	2.0370	4500.0	96	13727	No
27	GOM_NL__2PRFIN20041015_014236_000000402031_00146_13727_5018.N1	15-OCT-2004 01:42:36	Bright	39.500	140	88Gam Peg	2.8340	26000.	79	13727	No
28	GOM_NL__2PRFIN20041015_014633_000000402031_00146_13727_5019.N1	15-OCT-2004 01:46:33	Bright	39.500	58	21Alp And	2.0730	11000.	79	13727	No
29	GOM_NL__2PRFIN20041015_014905_000000472031_00146_13727_5020.N1	15-OCT-2004 01:49:05	Bright	47.000	53	43Bet And	2.0480	3300.0	94	13727	No
30	GOM_NL__2PRFIN20041015_015048_000000472031_00146_13727_5021.N1	15-OCT-2004 01:50:48	Bright	47.000	173	4Bet Tri	3.0040	8900.0	94	13727	No
31	GOM_NL__2PRFIN20041015_015238_000000472031_00146_13727_5022.N1	15-OCT-2004 01:52:38	Bright	46.500	73	57Gam1And	2.2600	13100.	93	13727	No
32	GOM_NL__2PRFIN20041015_015437_000000432031_00146_13727_5023.N1	15-OCT-2004 01:54:37	Bright	42.500	68	18Alp Cas	2.2250	4500.0	85	13727	No
33	GOM_NL__2PRFIN20041015_015559_000000412031_00146_13727_5024.N1	15-OCT-2004 01:55:59	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	13727	No
34	GOM_NL__2PRFIN20041015_015758_000000492031_00146_13727_5025.N1	15-OCT-2004 01:57:58	Bright	48.500	160	23Gam Per	2.9300	4700.0	97	13727	No
35	GOM_NL__2PRFIN20041015_020001_000000702031_00146_13727_5026.N1	15-OCT-2004 02:00:01	Bright	69.500	149	45Eps Per	2.8880	30000.	139	13727	No
36	GOM_NL__2PRFIN20041015_020334_000000412031_00146_13727_5027.N1	15-OCT-2004 02:03:34	Bright	40.500	49	1Alp UMi	1.9900	6300.0	81	13727	No
37	GOM_NL__2PRFIN20041015_020634_000000402031_00146_13727_5028.N1	15-OCT-2004 02:06:34	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	13727	No
38	GOM_NL__2PRFIN20041015_021149_000000412031_00146_13727_5029.N1	15-OCT-2004 02:11:49	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	13727	No
39	GOM_NL__2PRFIN20041015_021321_000000412031_00146_13727_5030.N1	15-OCT-2004 02:13:21	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	13727	No
40	GOM_NL__2PRFIN20041015_021646_000000522031_00146_13727_5031.N1	15-OCT-2004 02:16:46	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	13727	No
41	GOM_NL__2PRFIN20041015_022429_000000992031_00146_13727_5032.N1	15-OCT-2004 02:24:29	Bright	99.000	17	78Bet Gem	1.1610	4500.0	198	13727	No
42	GOM_NL__2PRFIN20041015_023419_000000542031_00146_13727_5033.N1	15-OCT-2004 02:34:19	Dark	54.000	48	30Alp Hya	1.9770	4100.0	108	13727	No



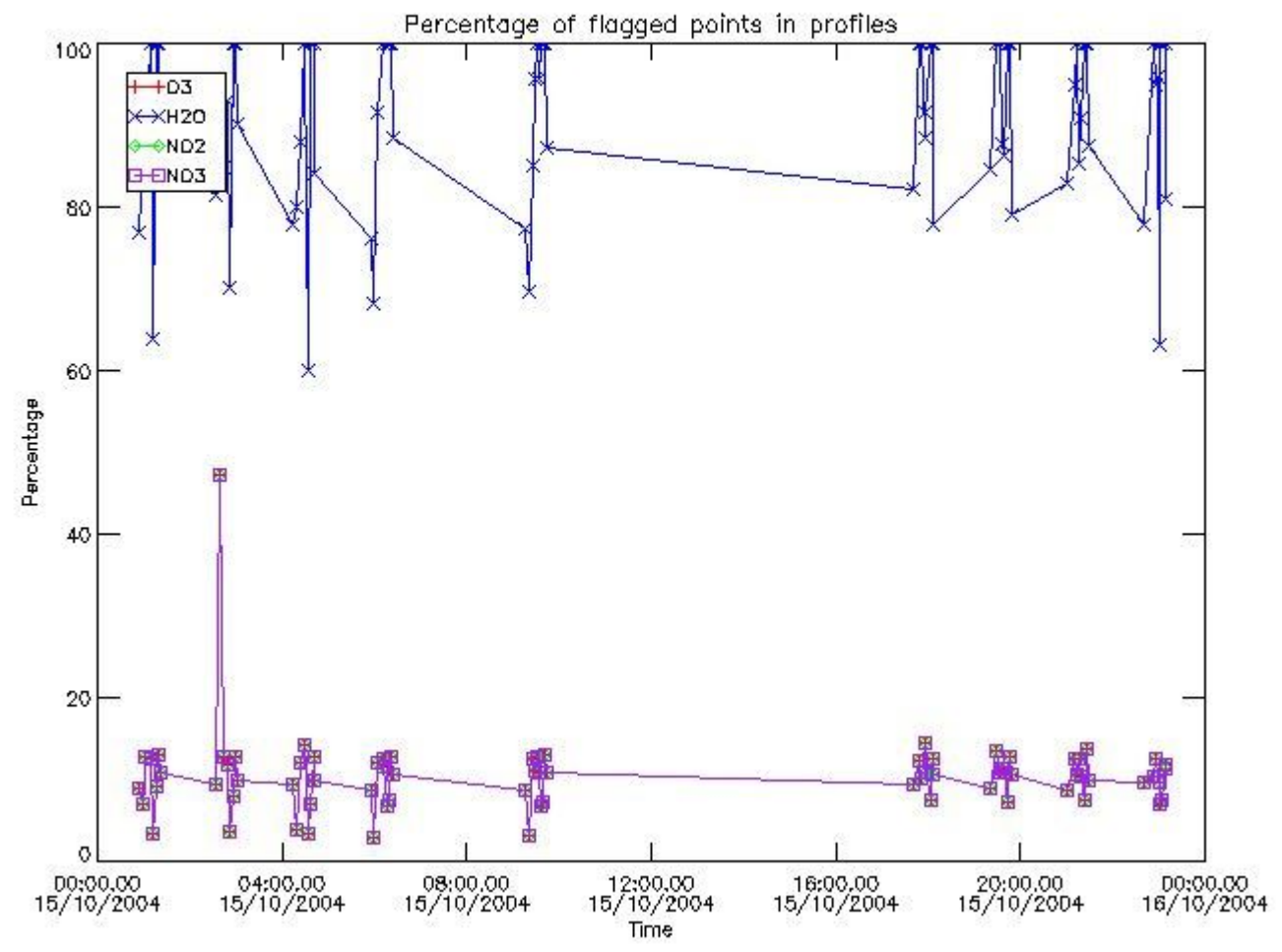






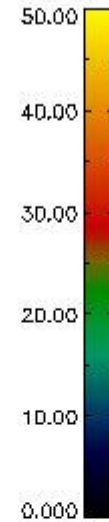
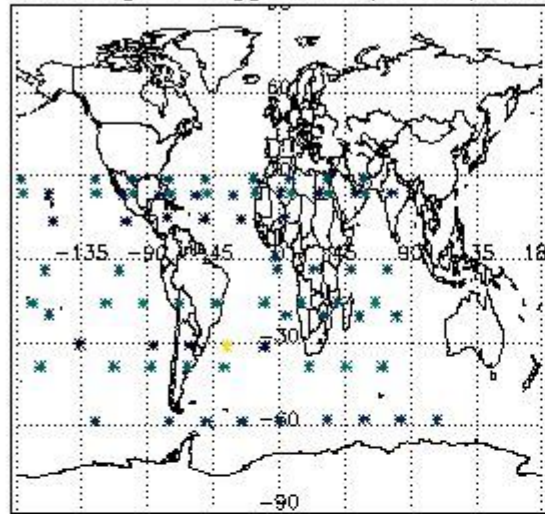


3.1 Plot quality information per product (time dependant)

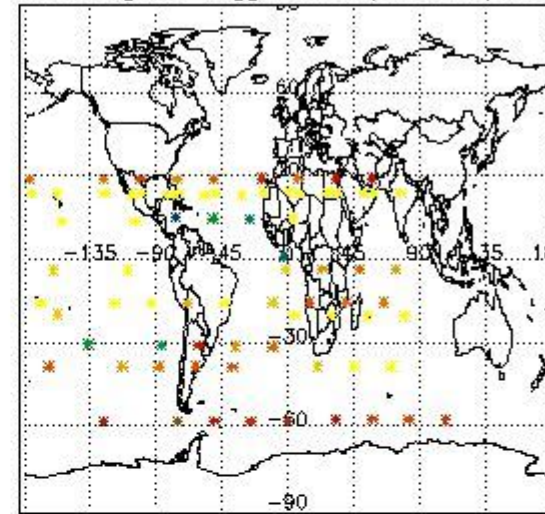


3.2 Plot quality information per product (world map)

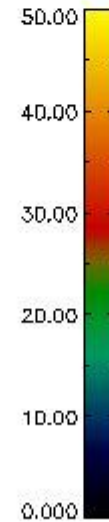
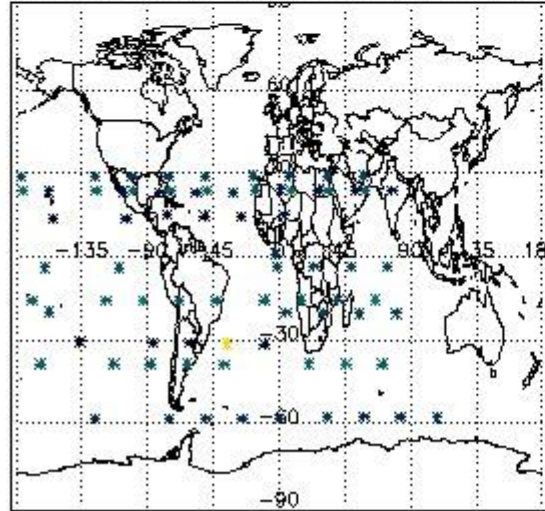
Percentage of flagged data per O3 profile



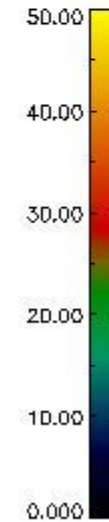
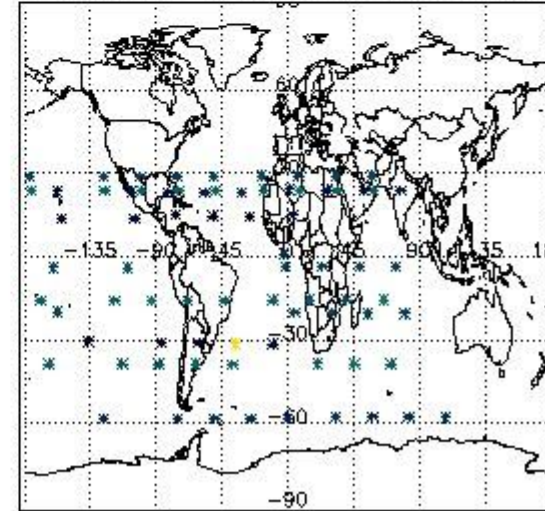
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

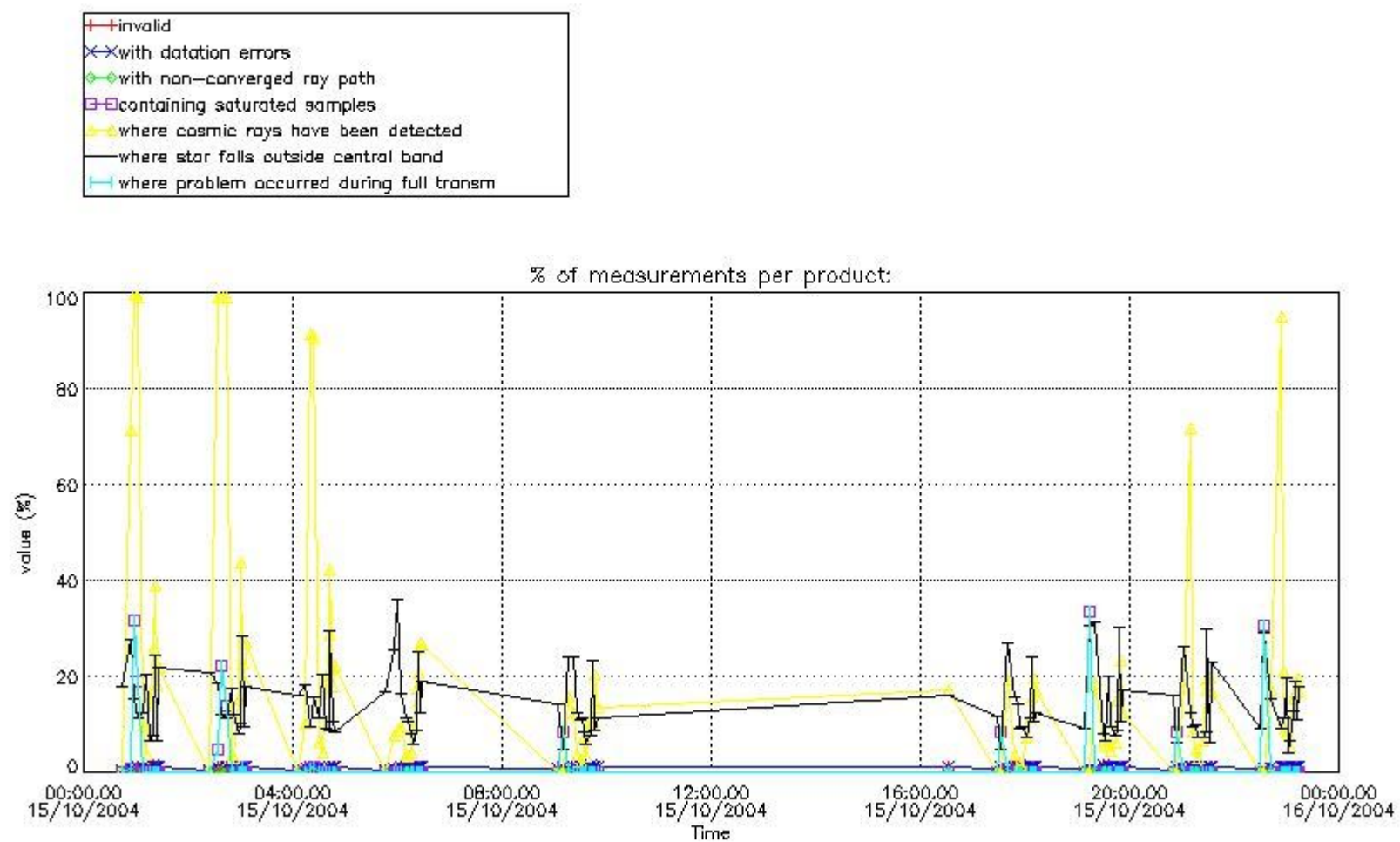


#### 4. Level 1 quality information per product

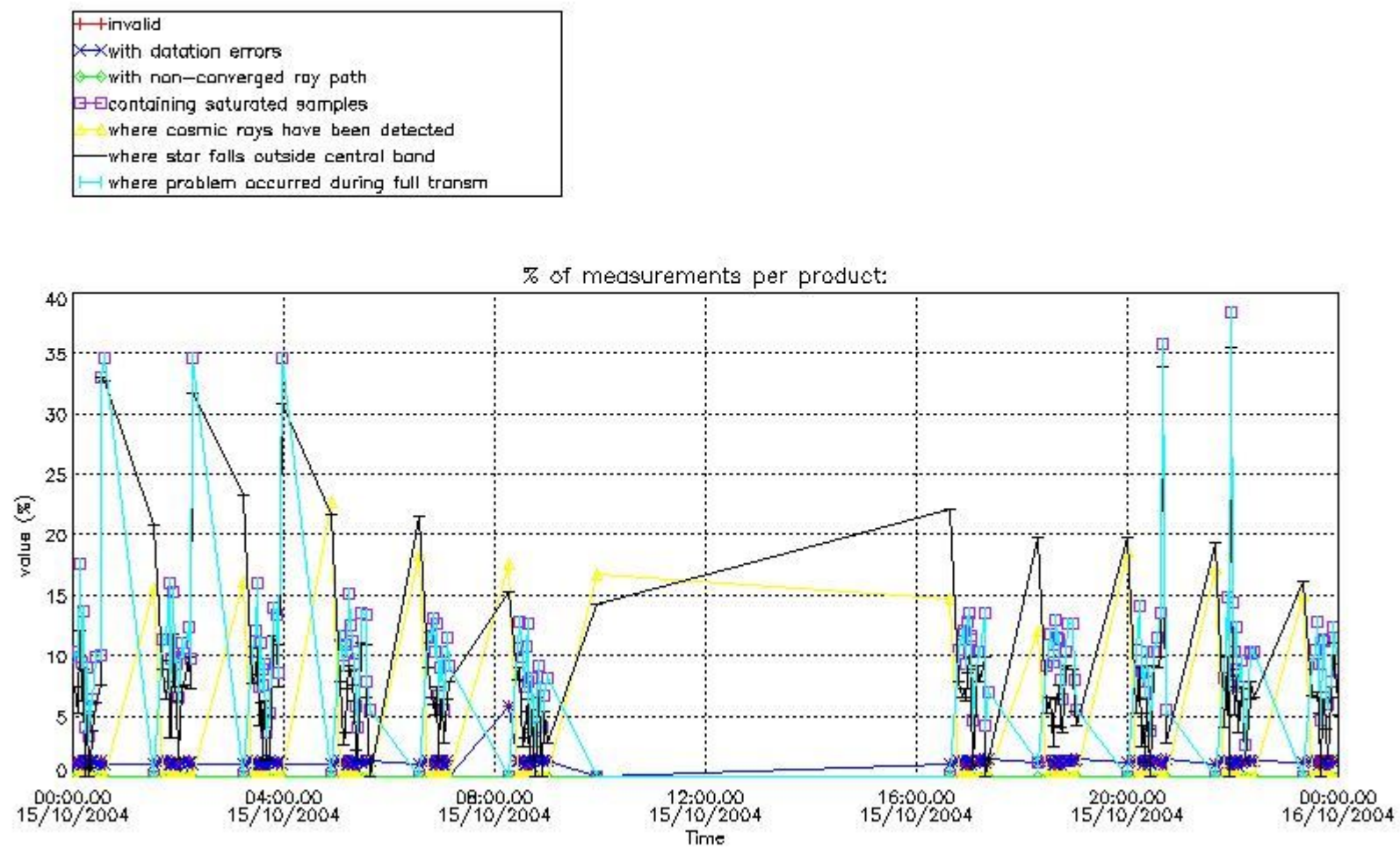
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

##### 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



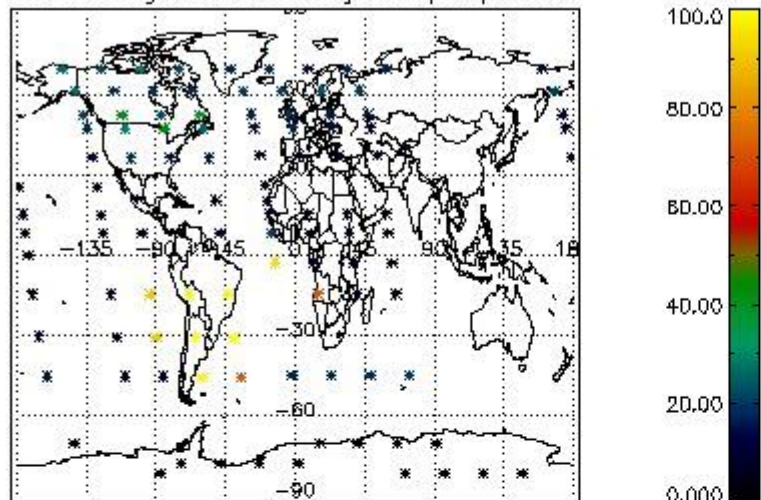
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



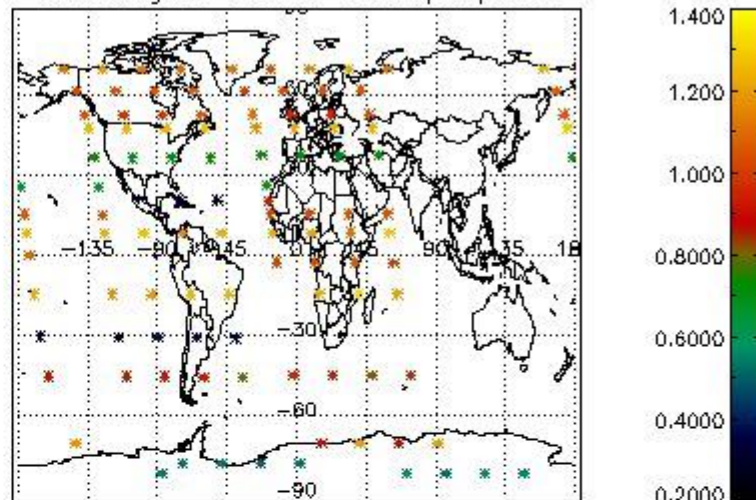
4.2 Plot quality information per product coming from level 1b processing (world map)

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

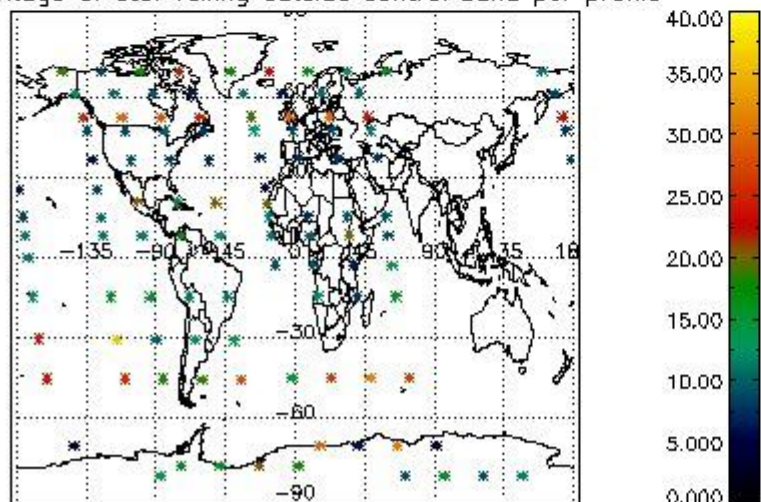
Percentage of cosmic ray hits per profile



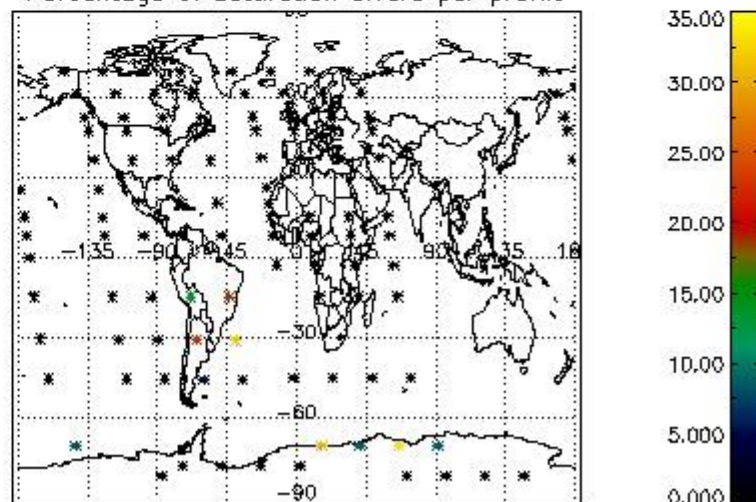
Percentage of datation errors per profile



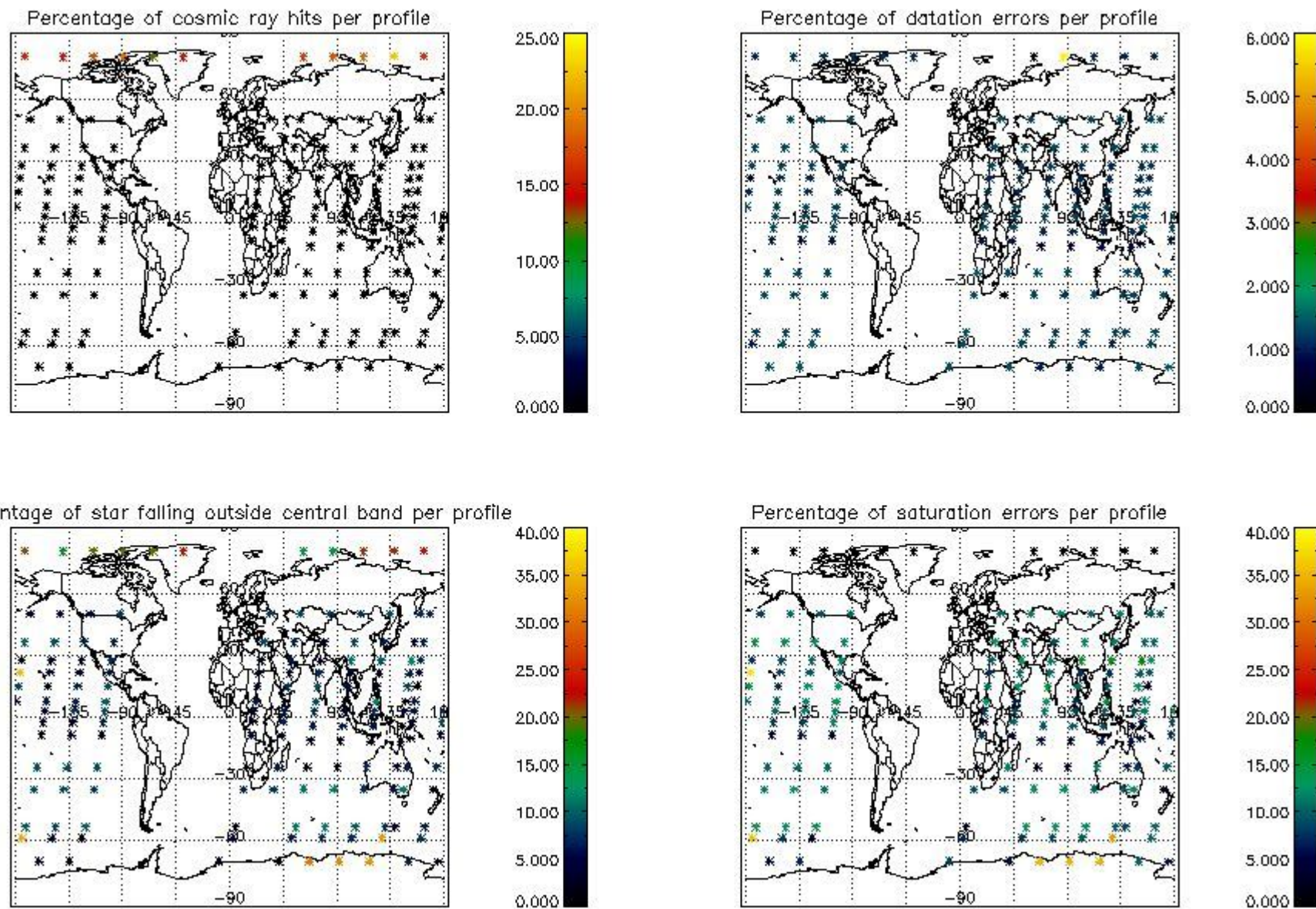
Percentage of star falling outside central band per profile



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

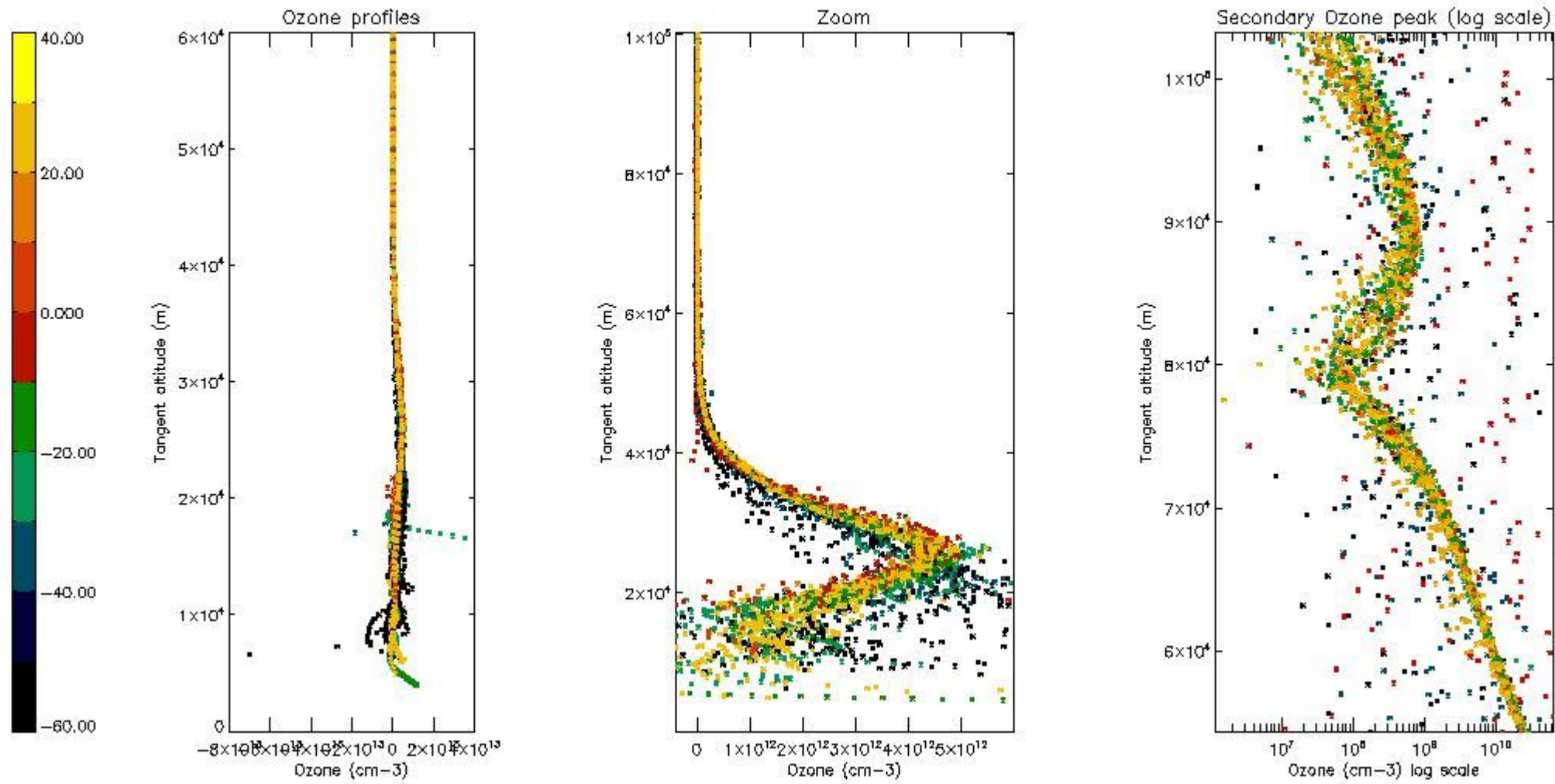
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	36
STD < 20	20

STD < 10	17
STD < 5	13

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

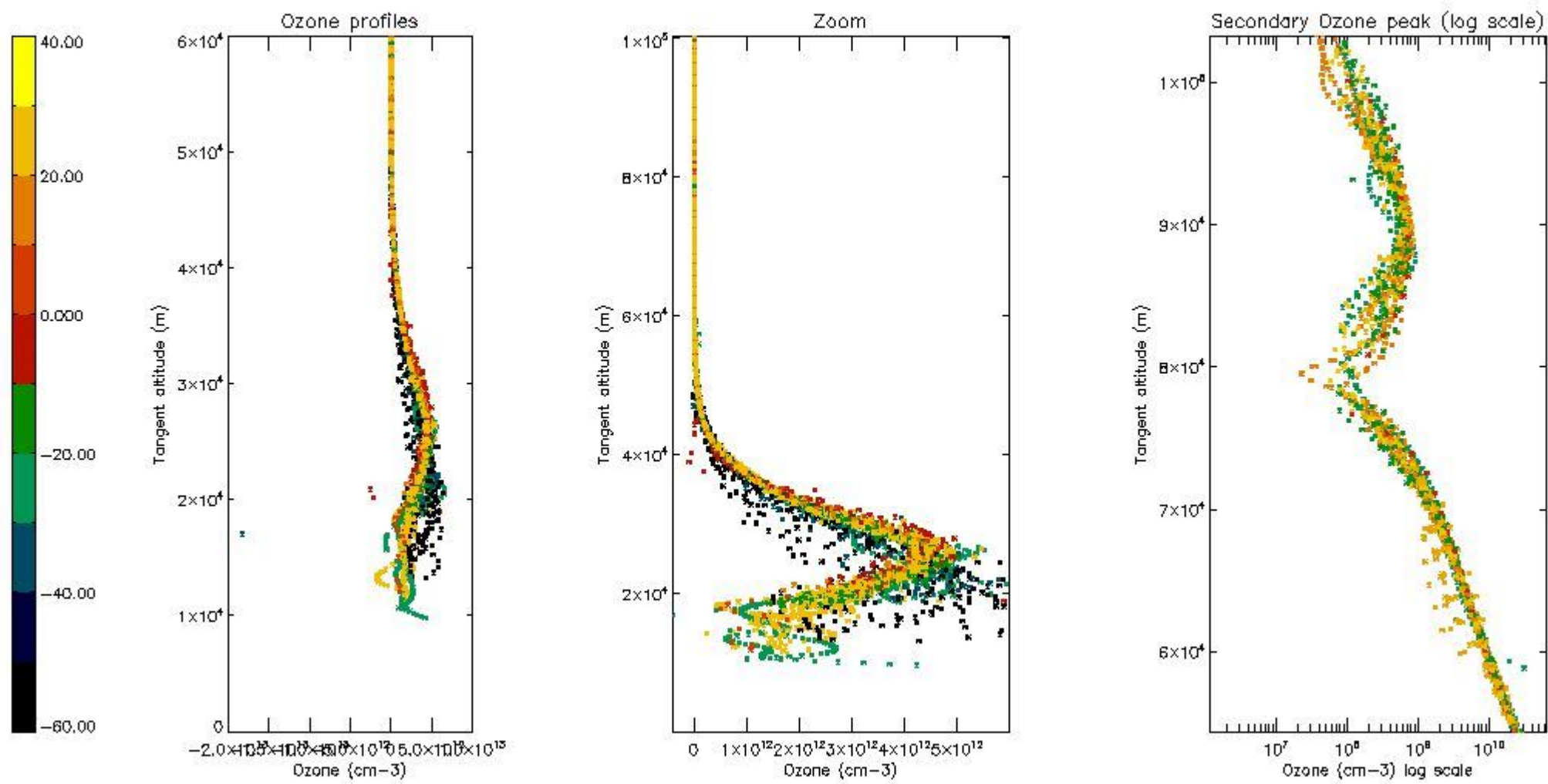
The colorbar represents the latitude.



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

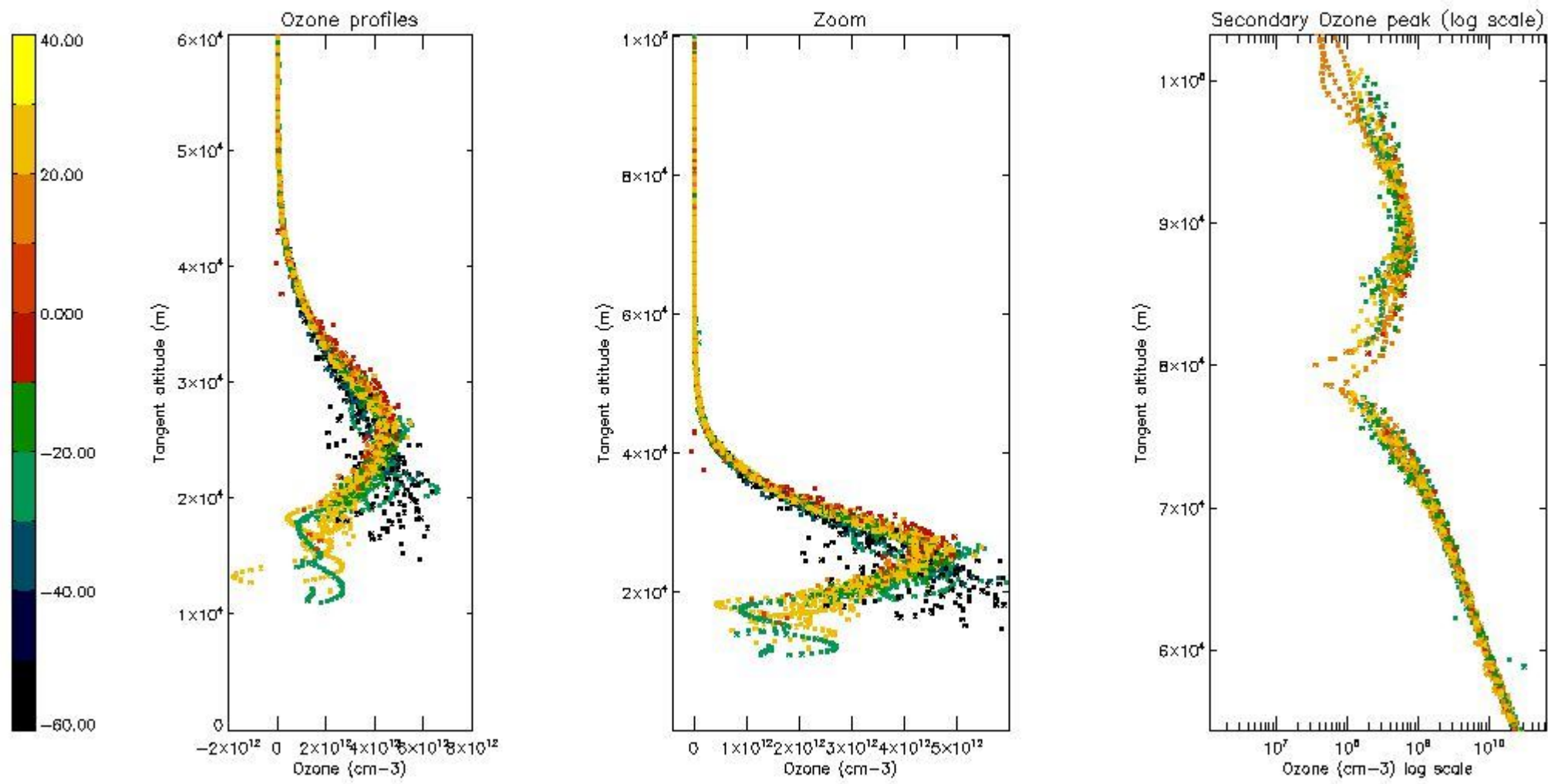
The colorbar represents the latitude.





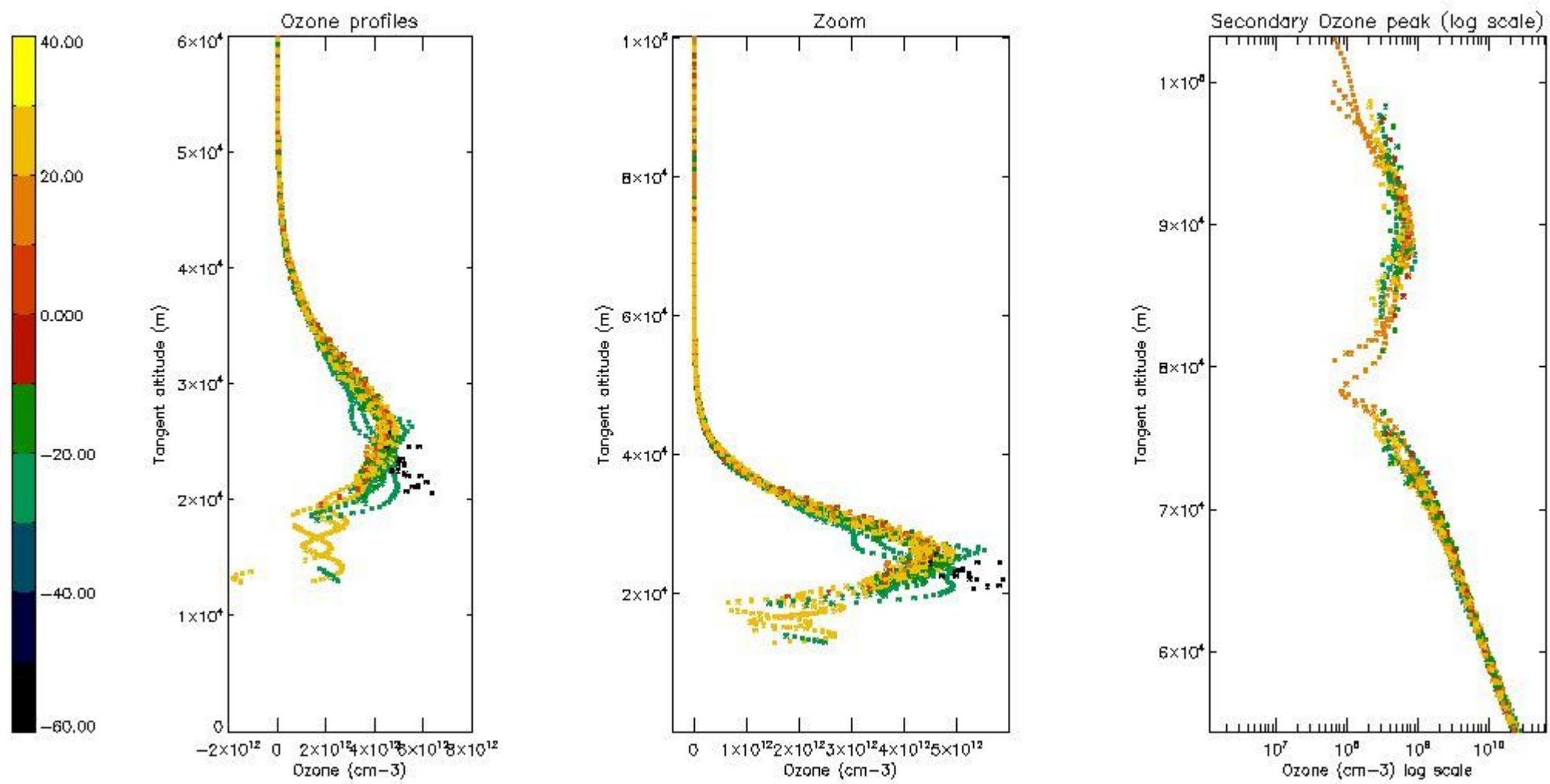
*5.4 Plot ozone profiles where STD < 10% (dark without errors)*

The colorbar represents the latitude.



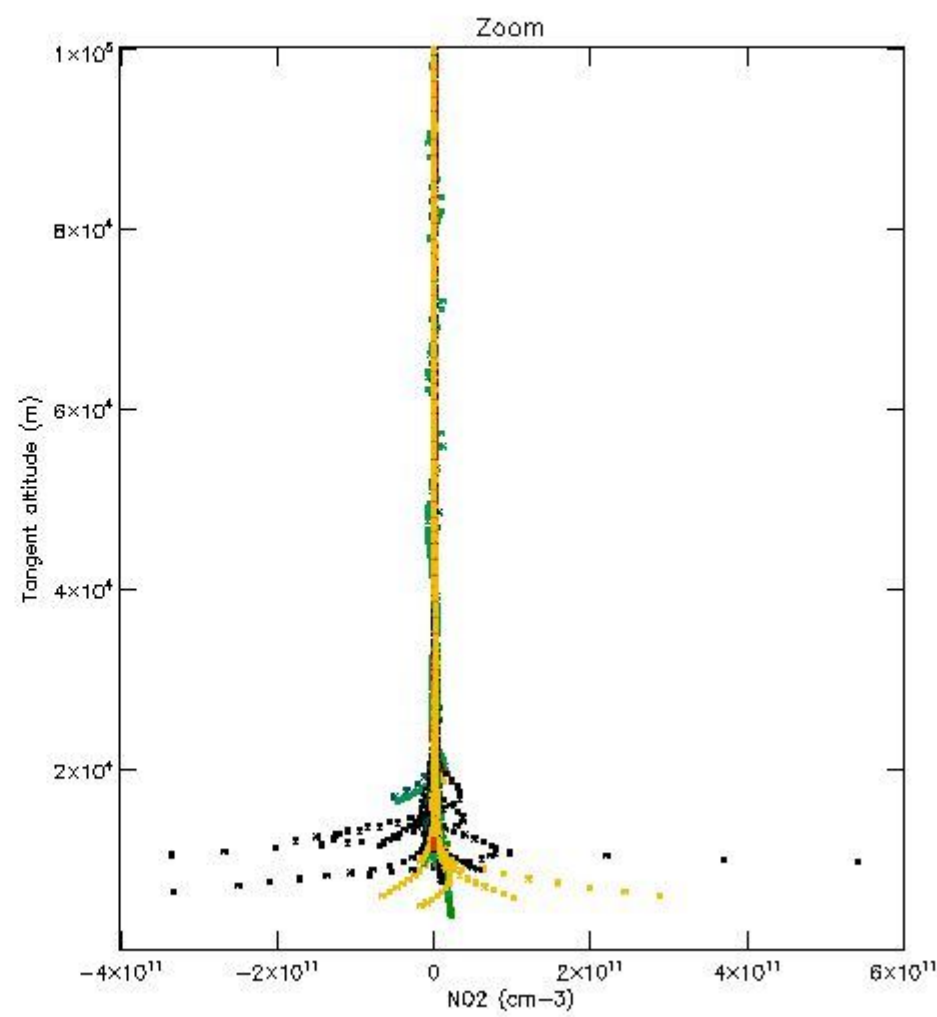
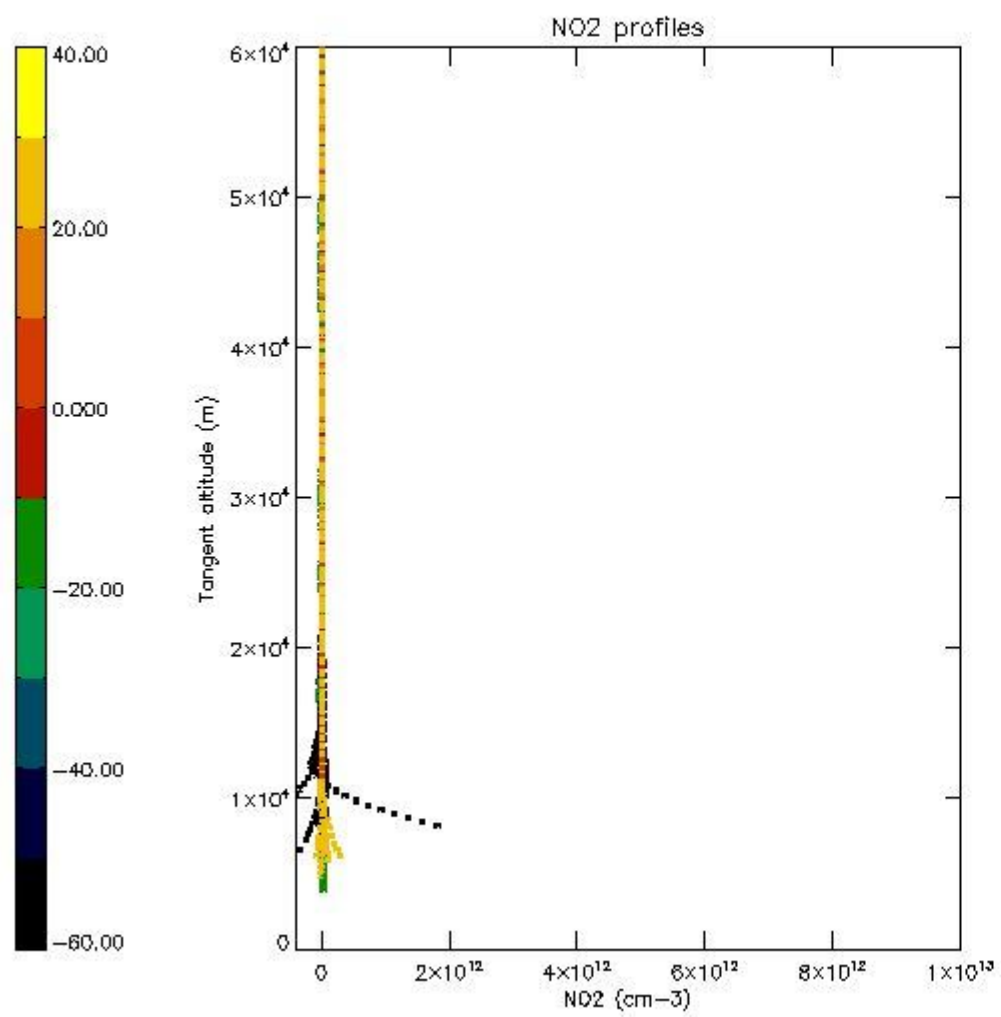
*5.5 Plot ozone profiles where STD < 5% (dark without errors)*

The colorbar represents the latitude.



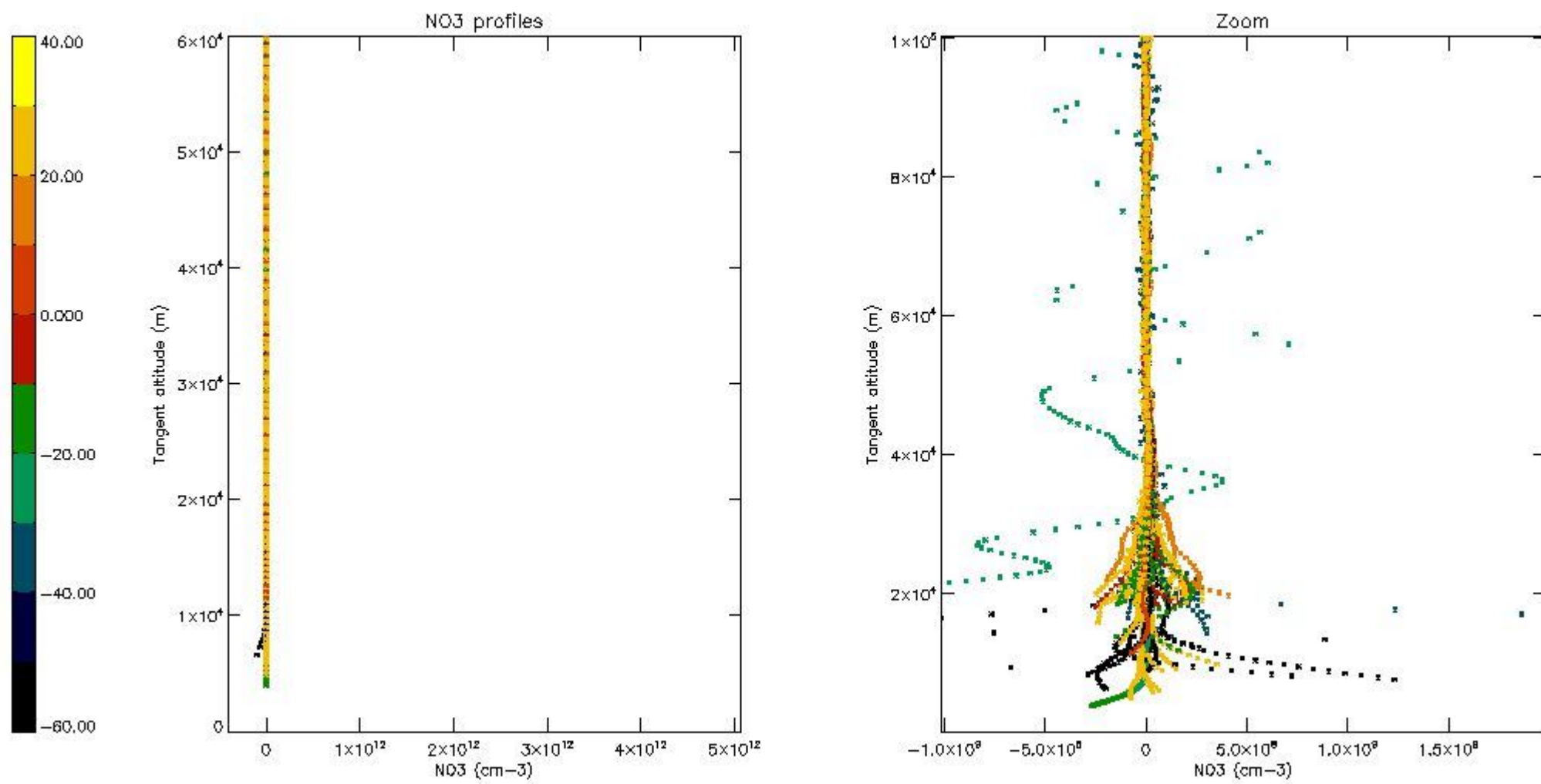
*5.6 Plot NO<sub>2</sub> profiles for all STD (dark without errors)*

The colorbar represents the latitude.



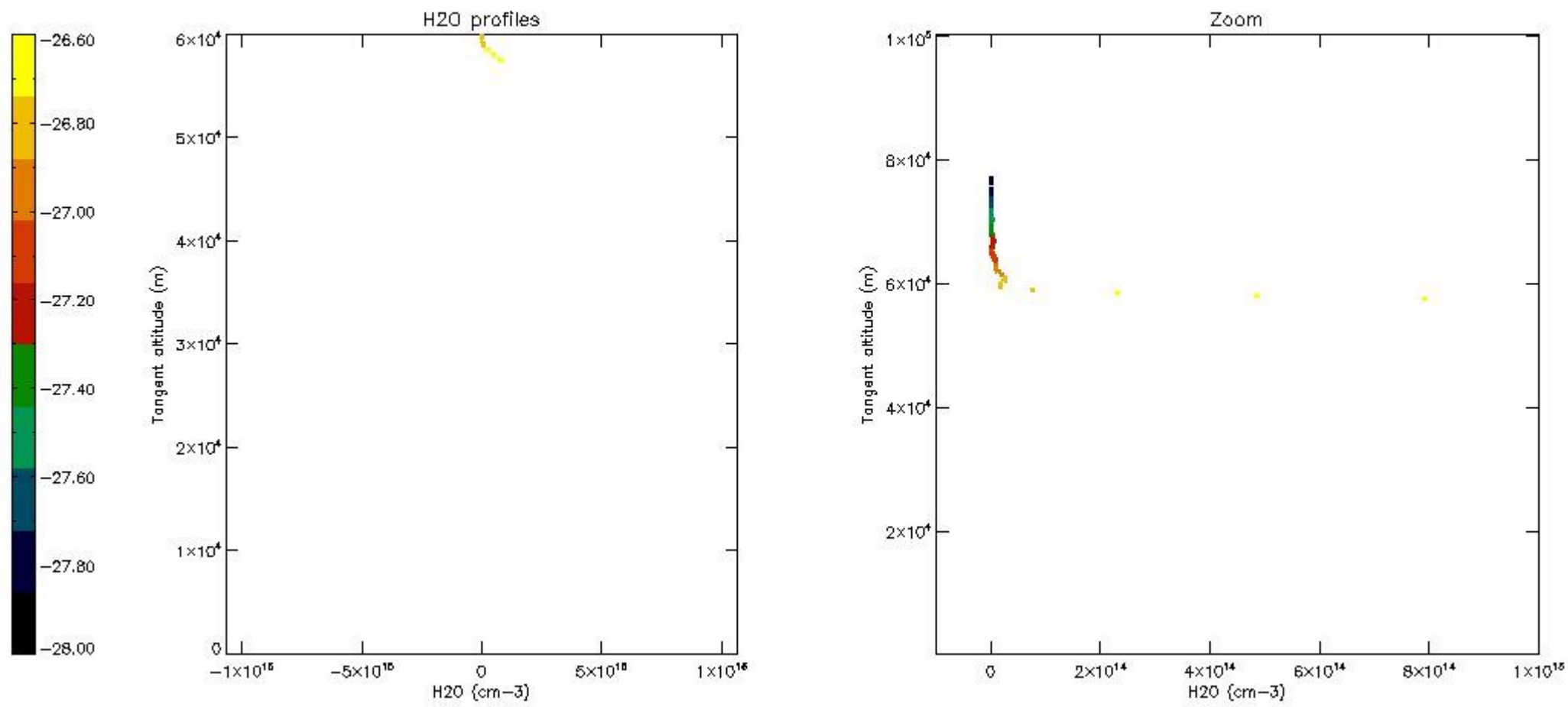
*5.7 Plot NO3 profiles for all STD (dark without errors)*

The colorbar represents the latitude.



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

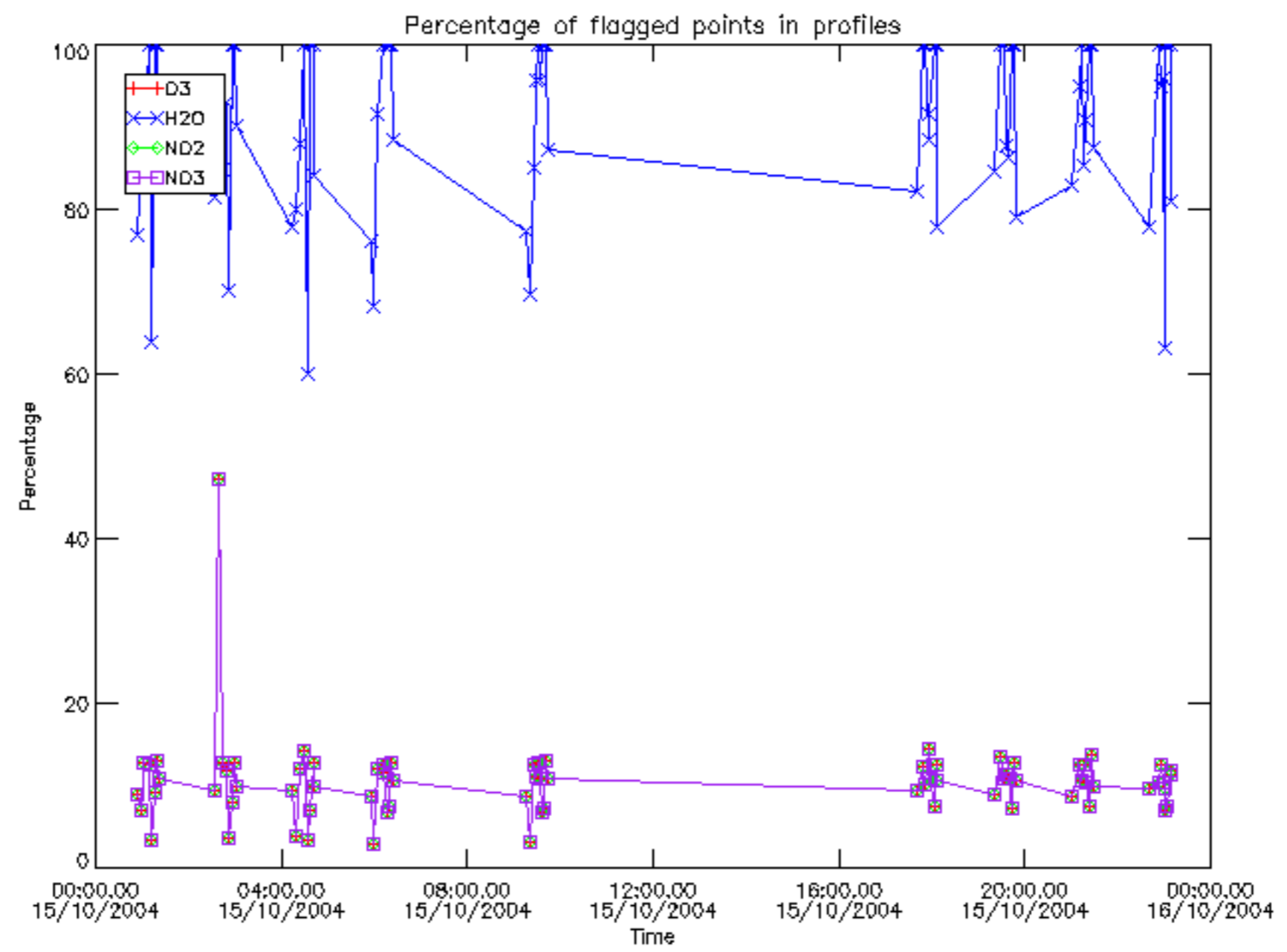
The colorbar represents the latitude.



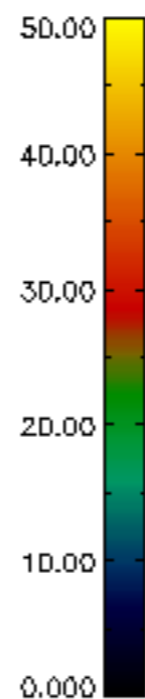
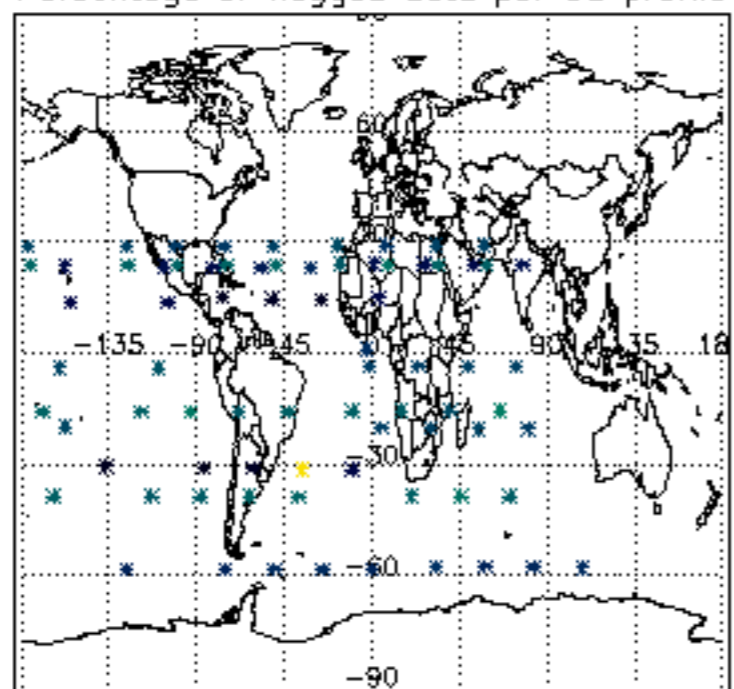
## 6. Auxiliary Data Files used for the production reported in section 2

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

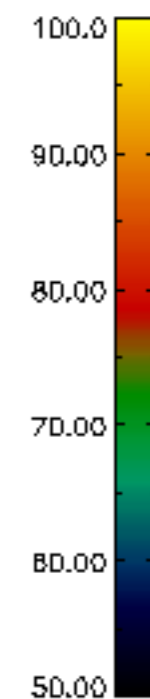
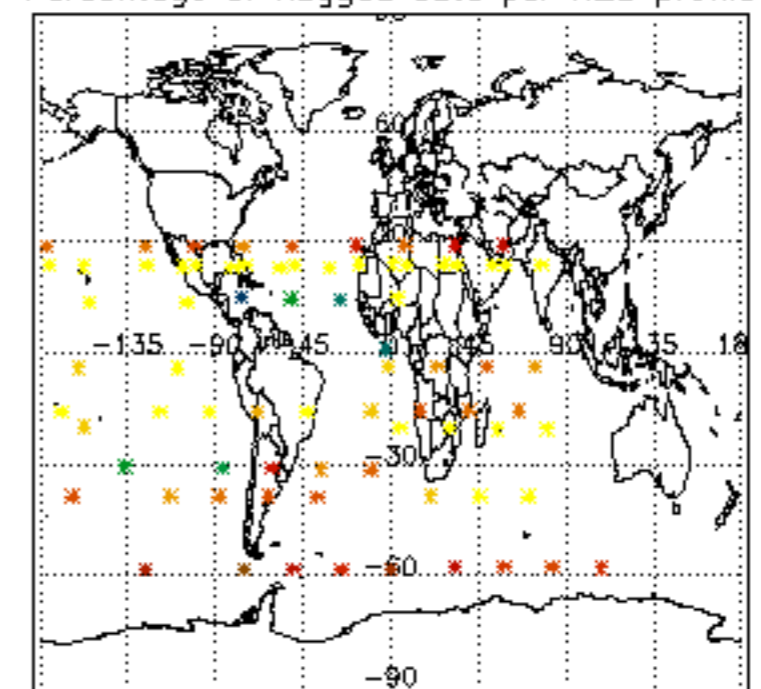
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	15-OCT-2004 00:01:58
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	15-OCT-2004 00:01:58
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	15-OCT-2004 00:01:58



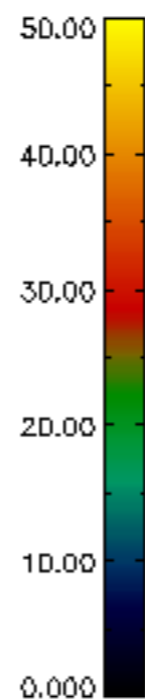
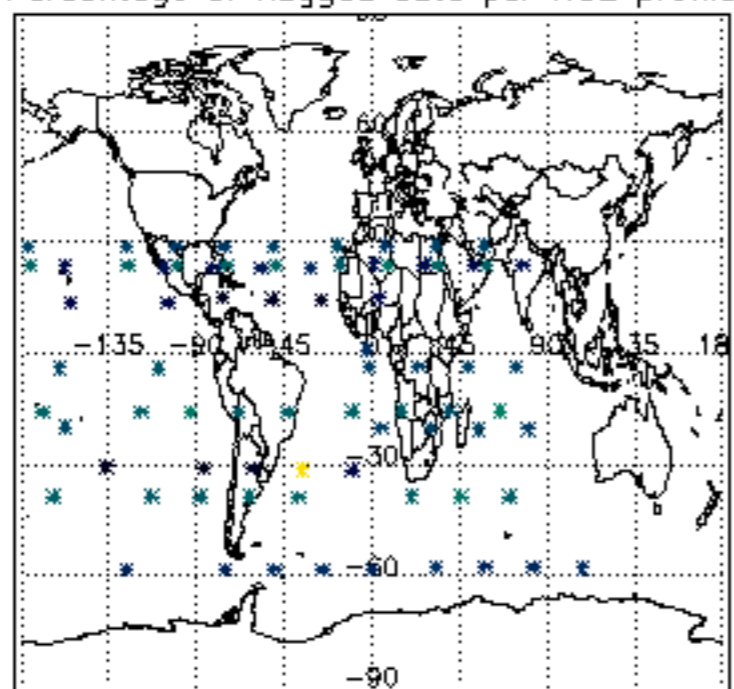
Percentage of flagged data per D3 profile



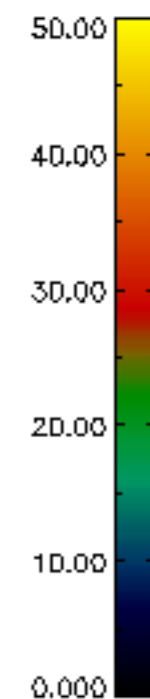
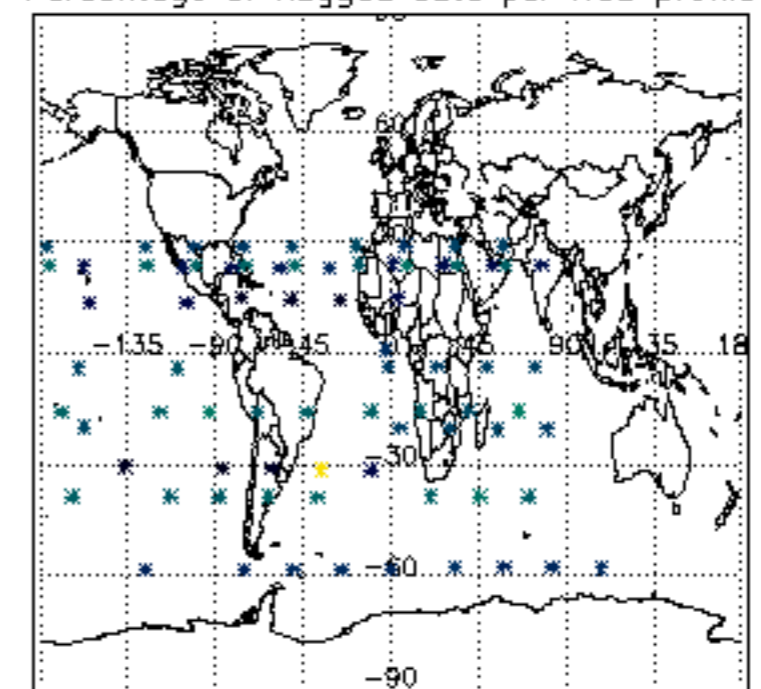
Percentage of flagged data per H2O profile



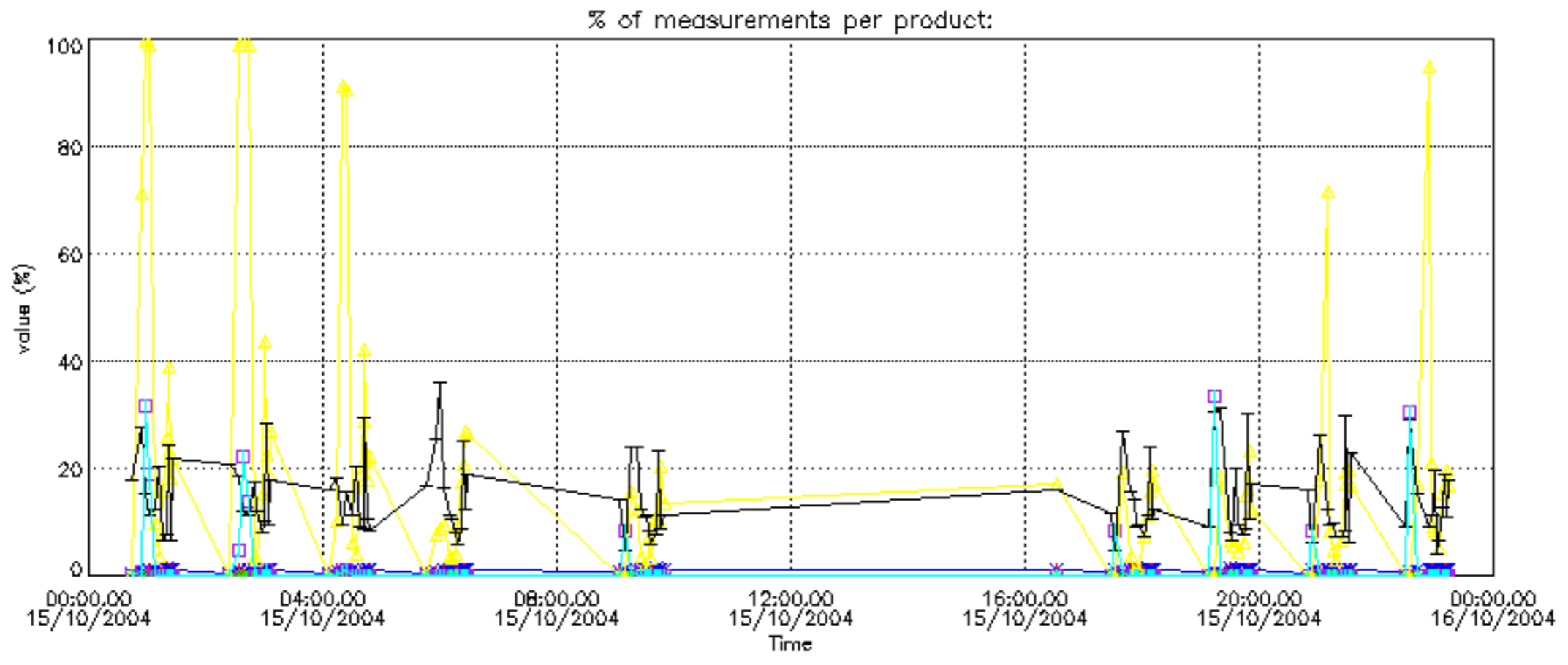
Percentage of flagged data per NO2 profile

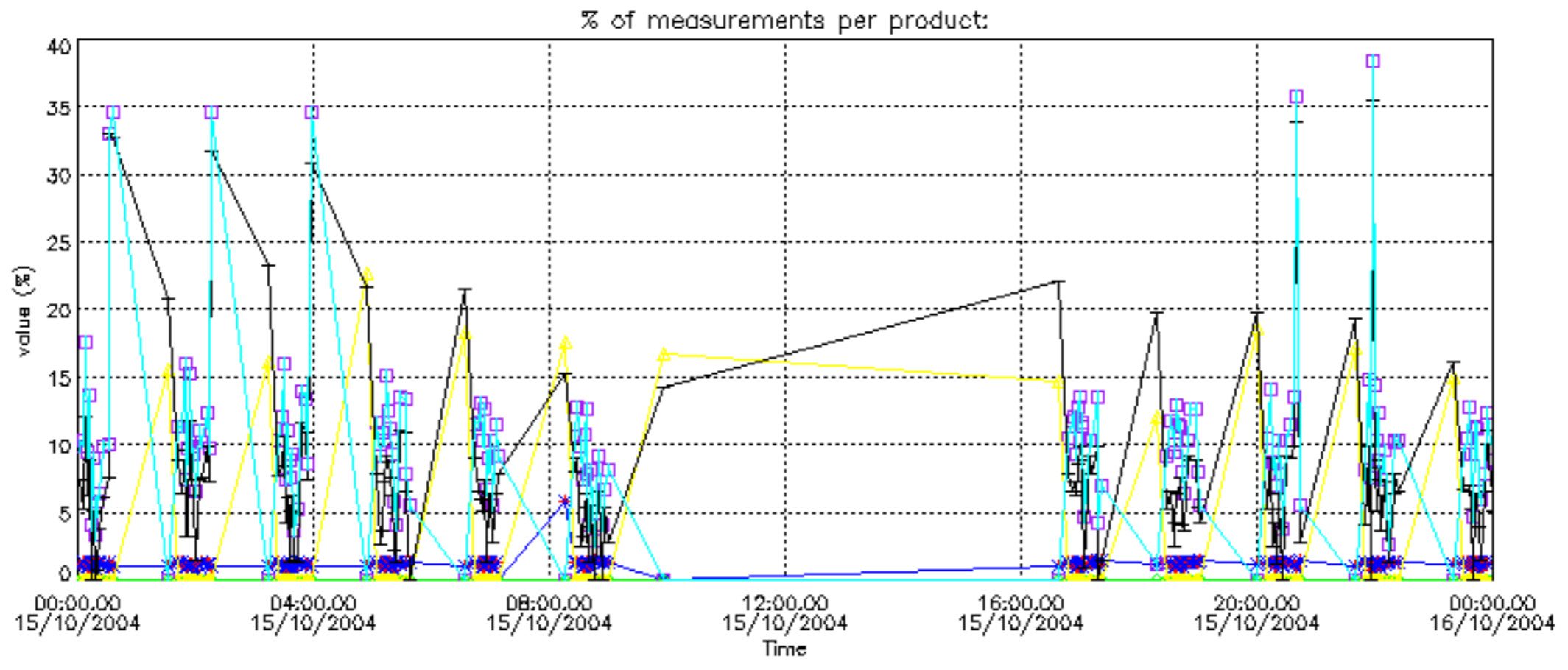


Percentage of flagged data per NO3 profile

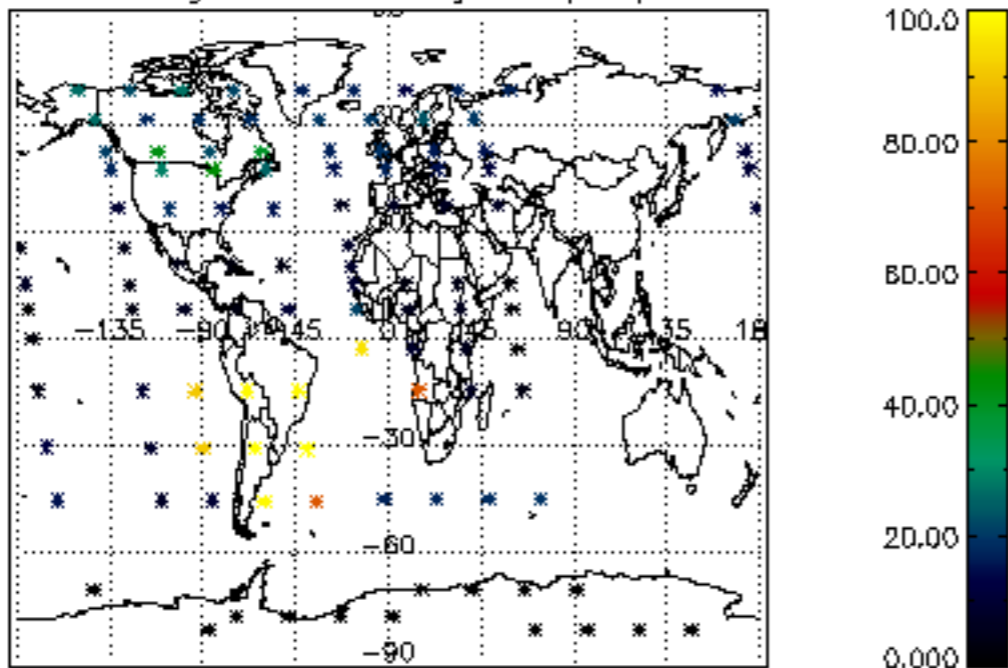




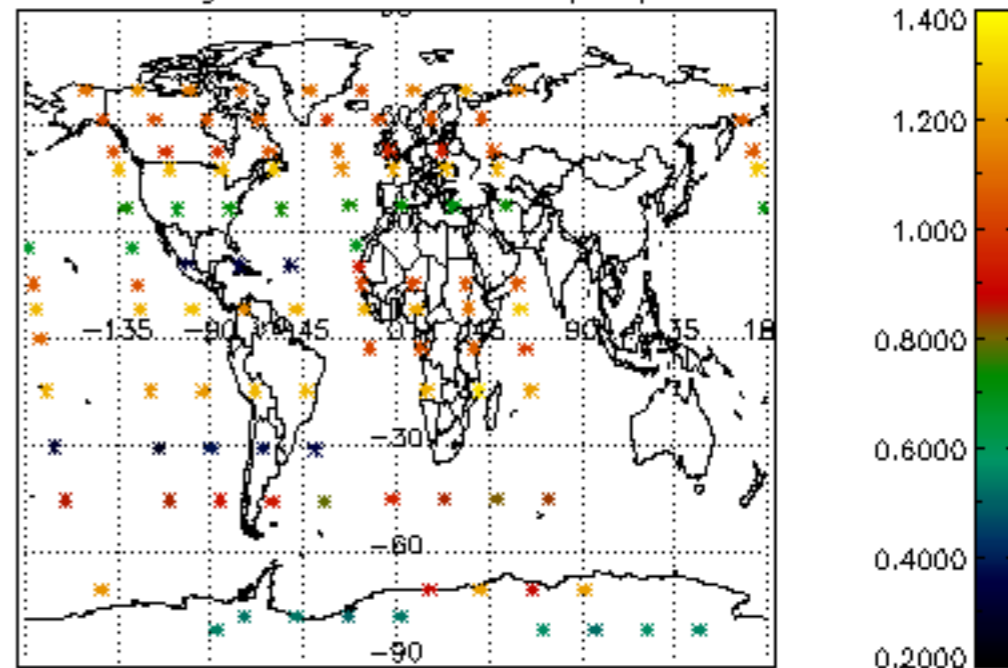




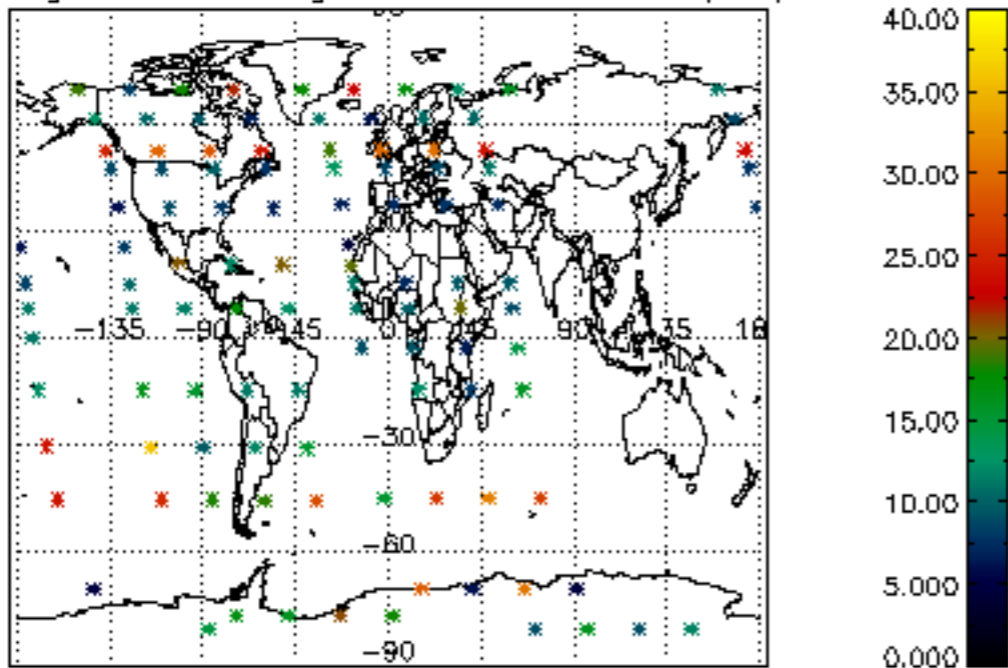
Percentage of cosmic ray hits per profile



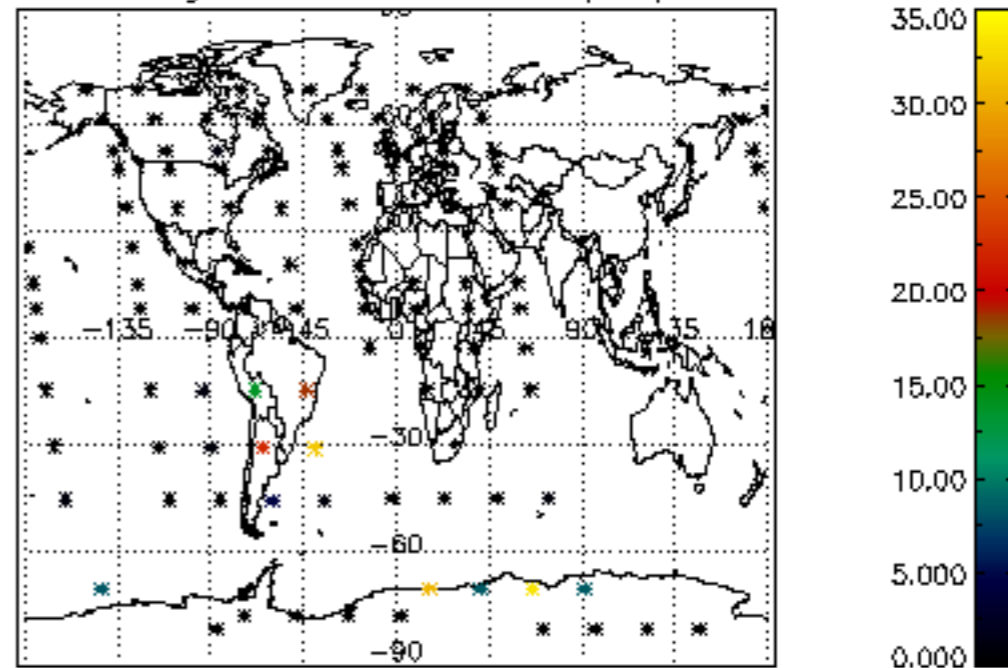
Percentage of datation errors per profile



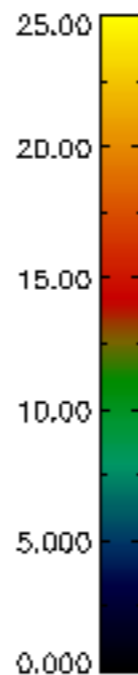
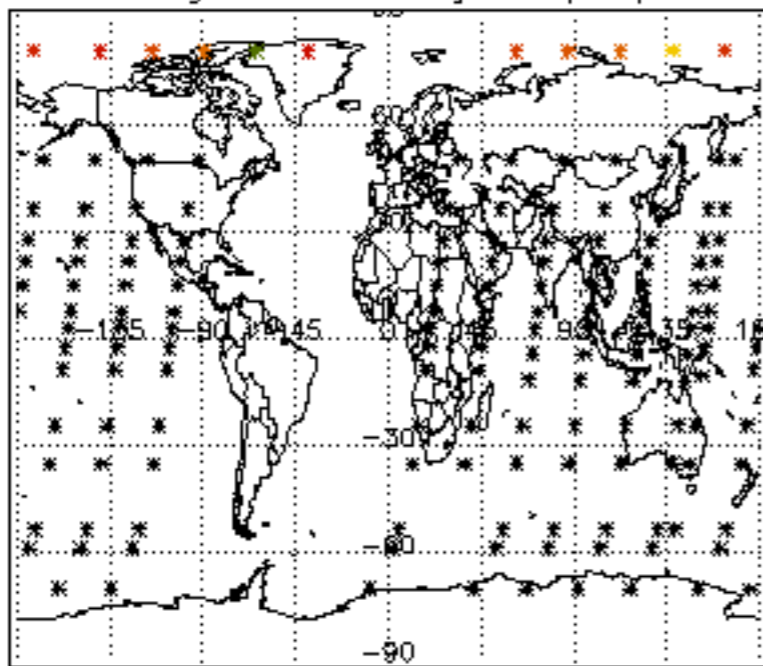
Percentage of star falling outside central band per profile



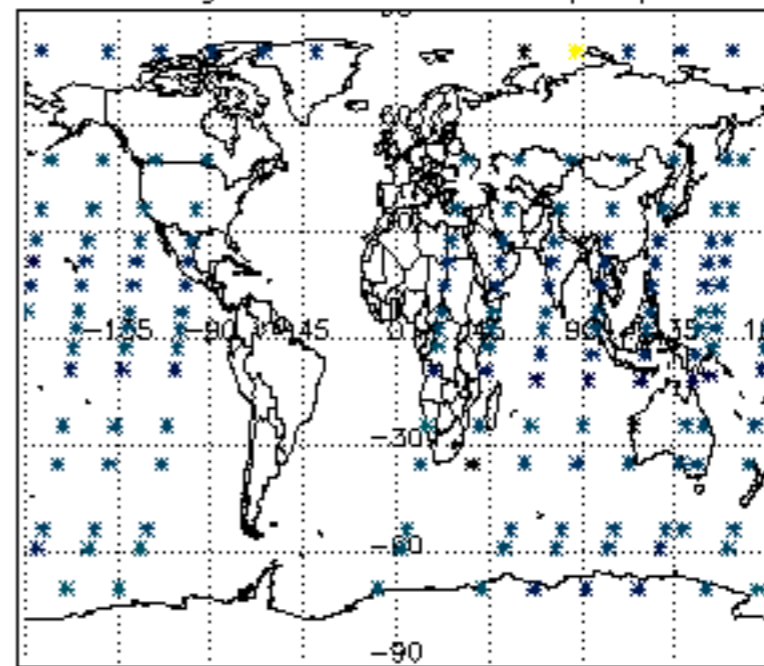
Percentage of saturation errors per profile



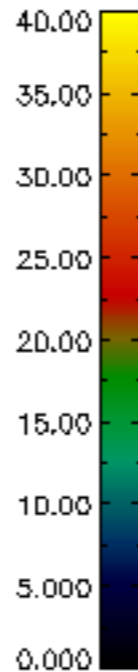
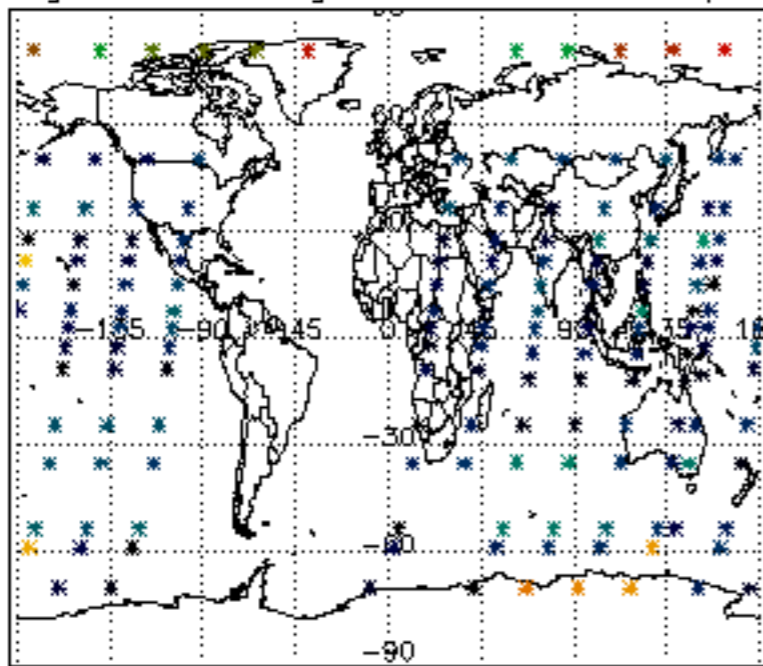
Percentage of cosmic ray hits per profile



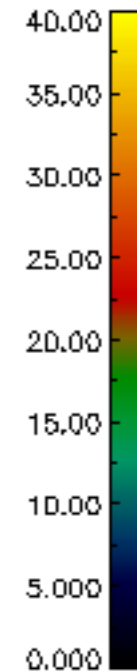
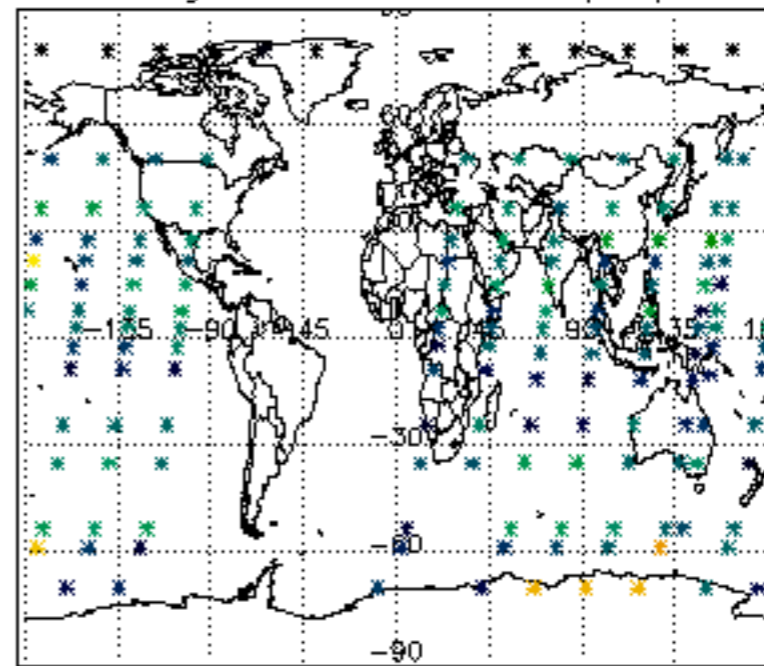
Percentage of datation errors per profile

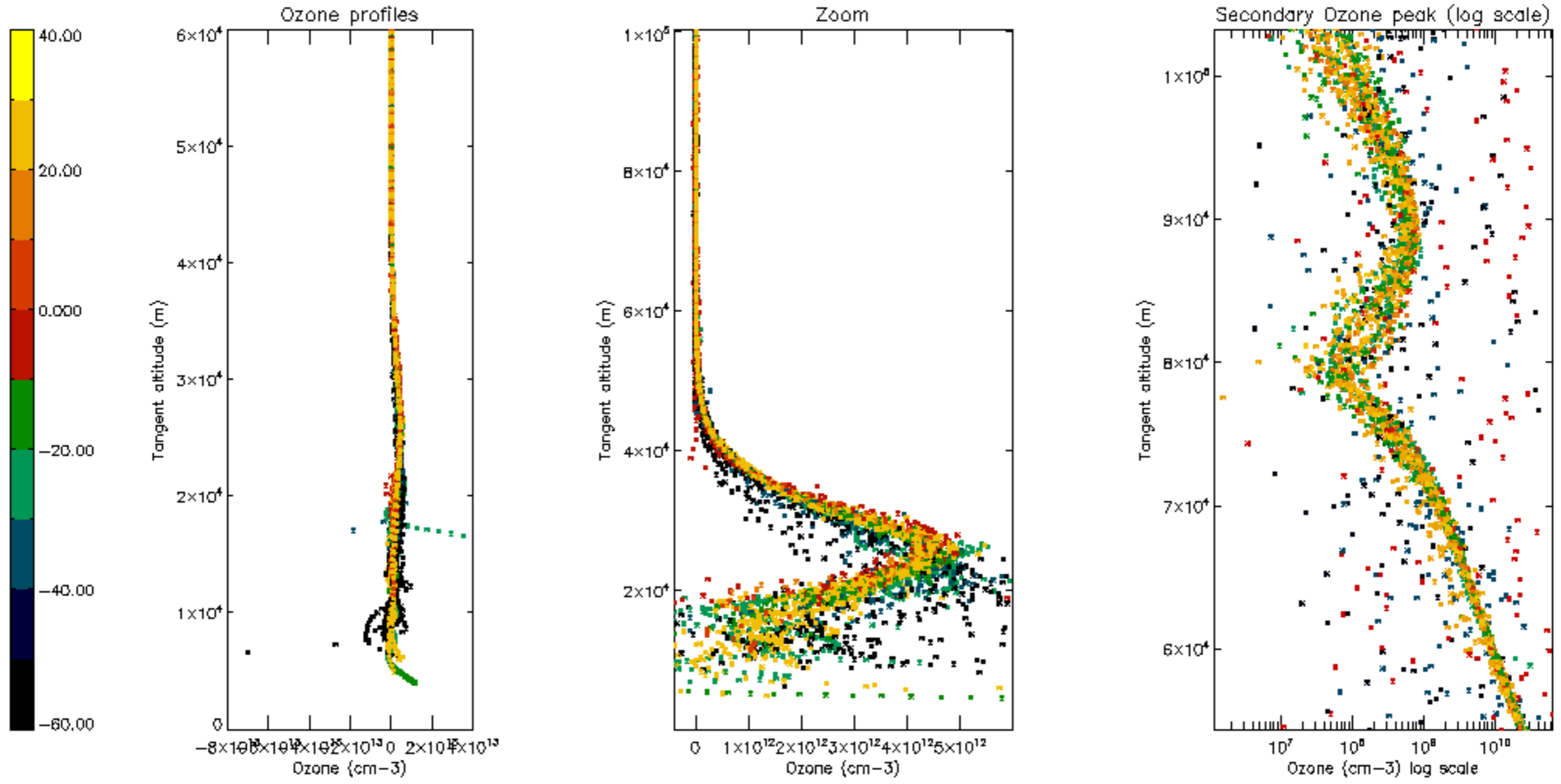


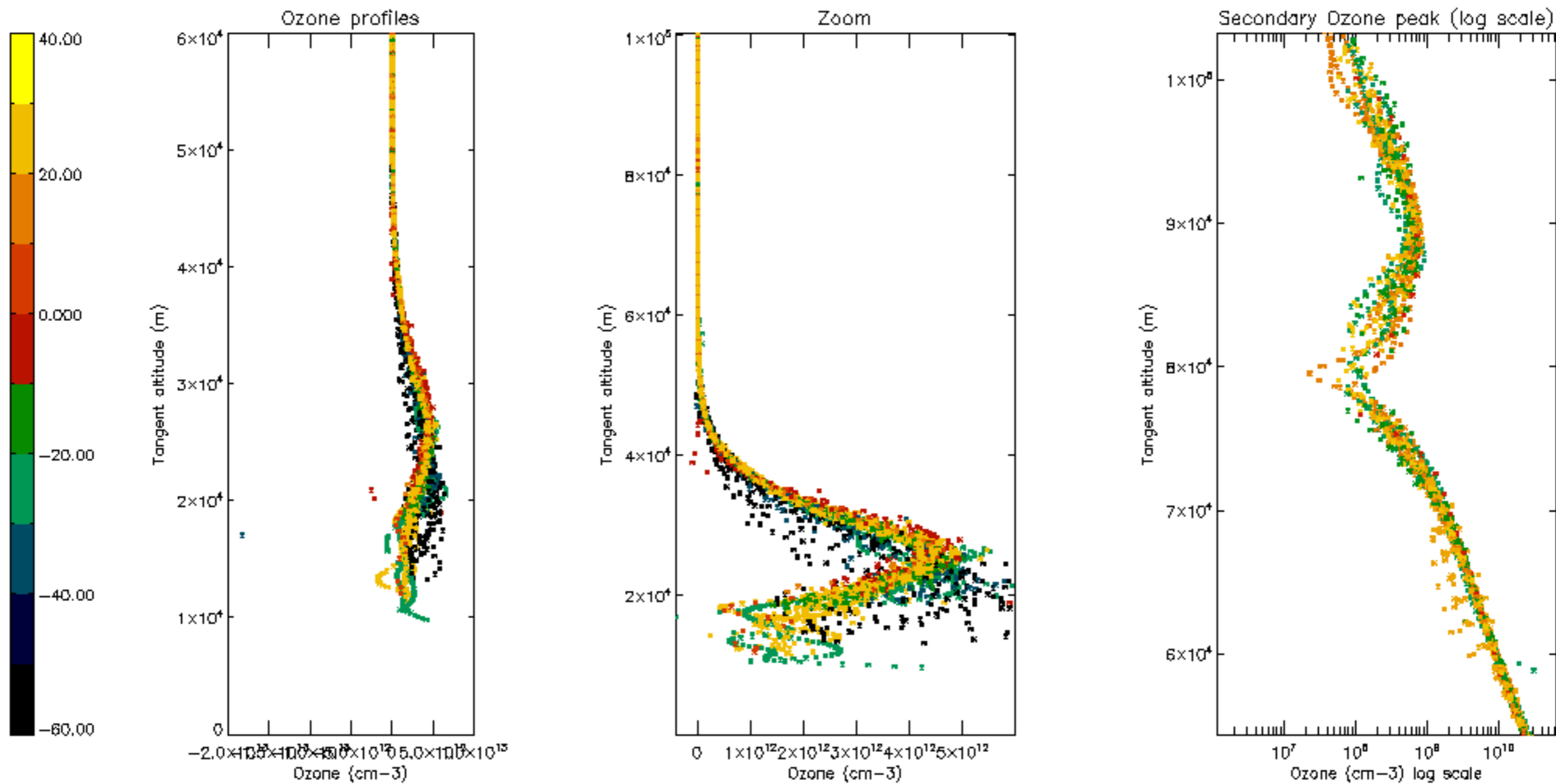
Percentage of star falling outside central band per profile

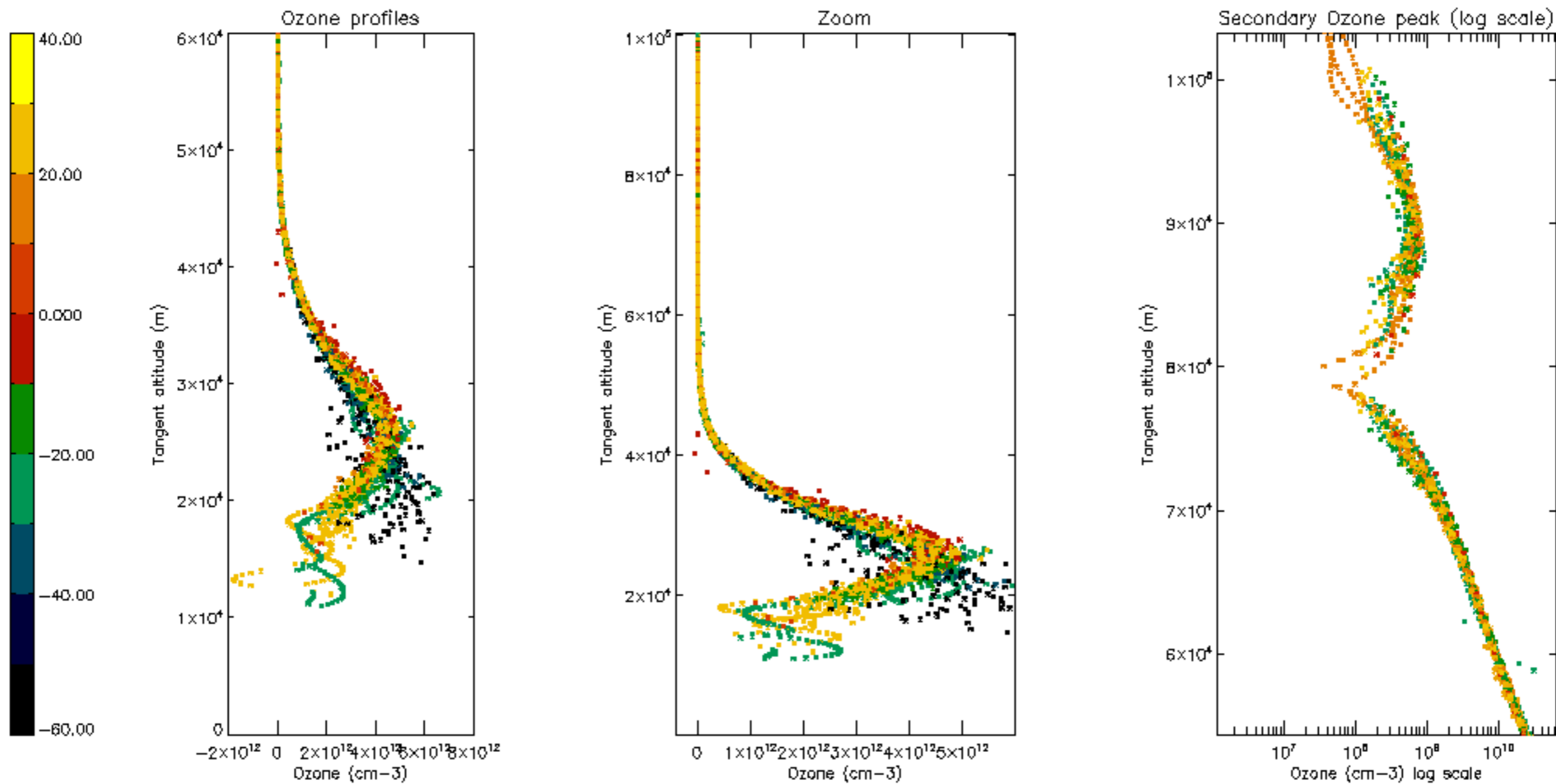


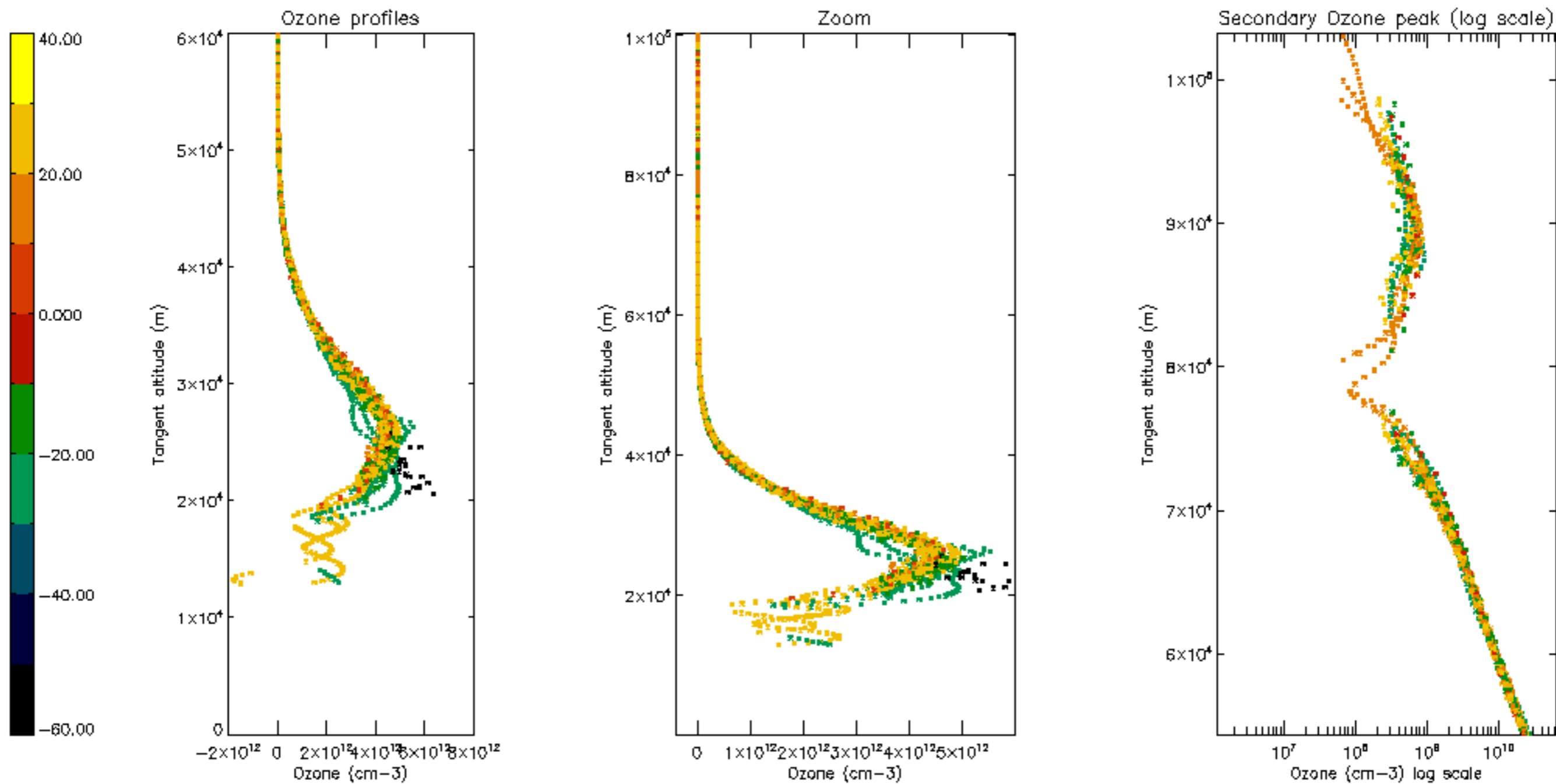
Percentage of saturation errors per profile



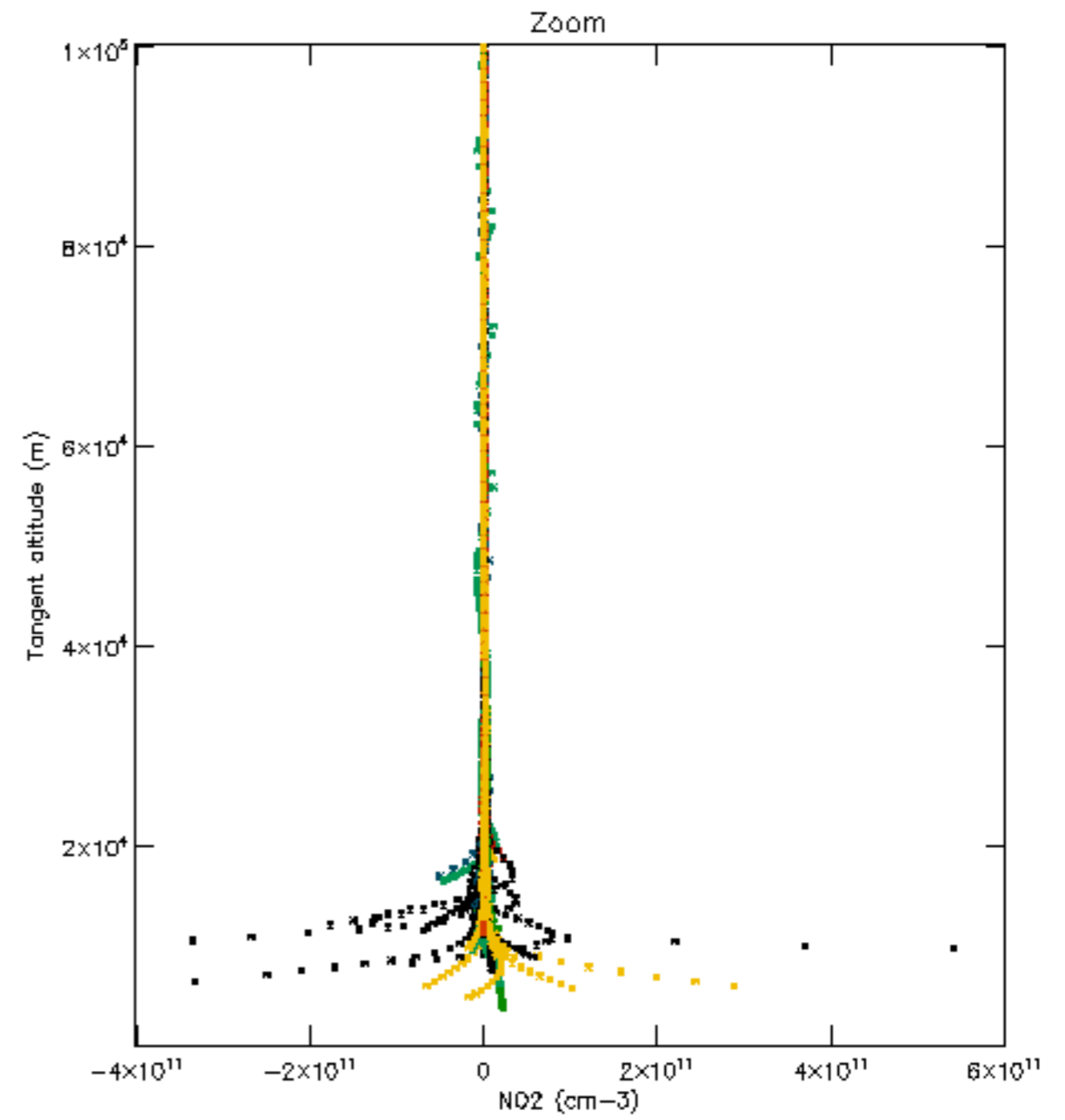
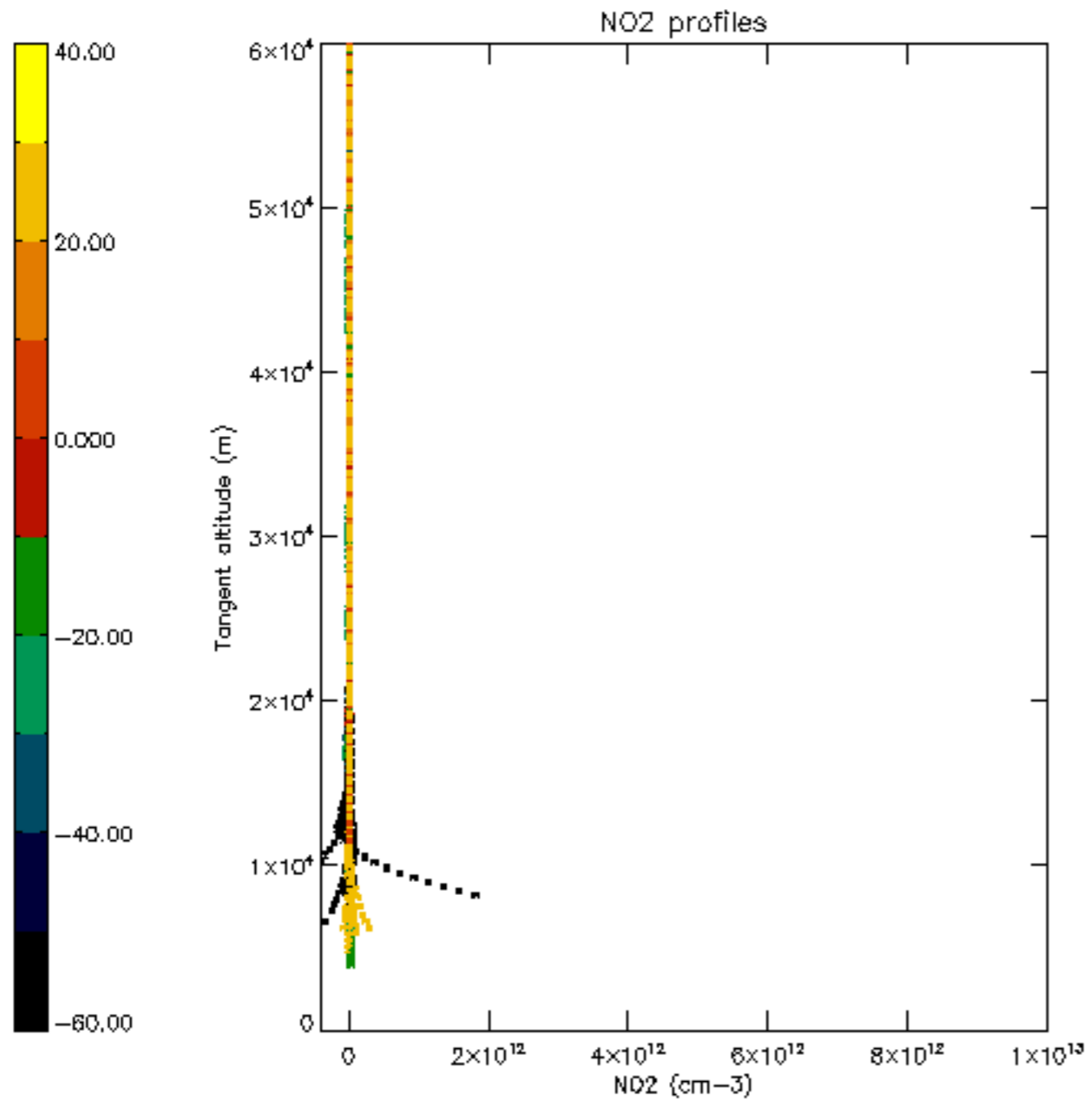


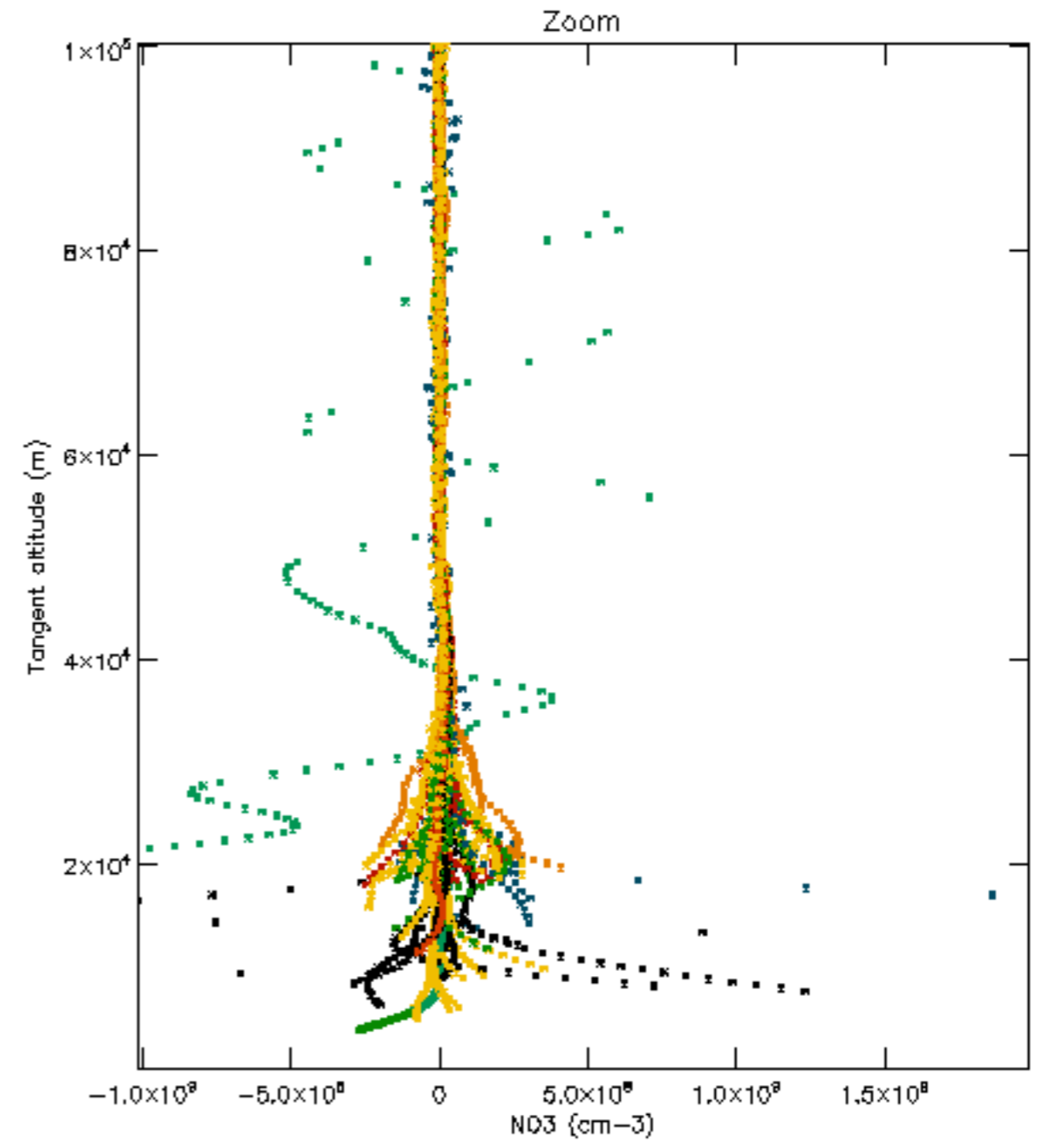
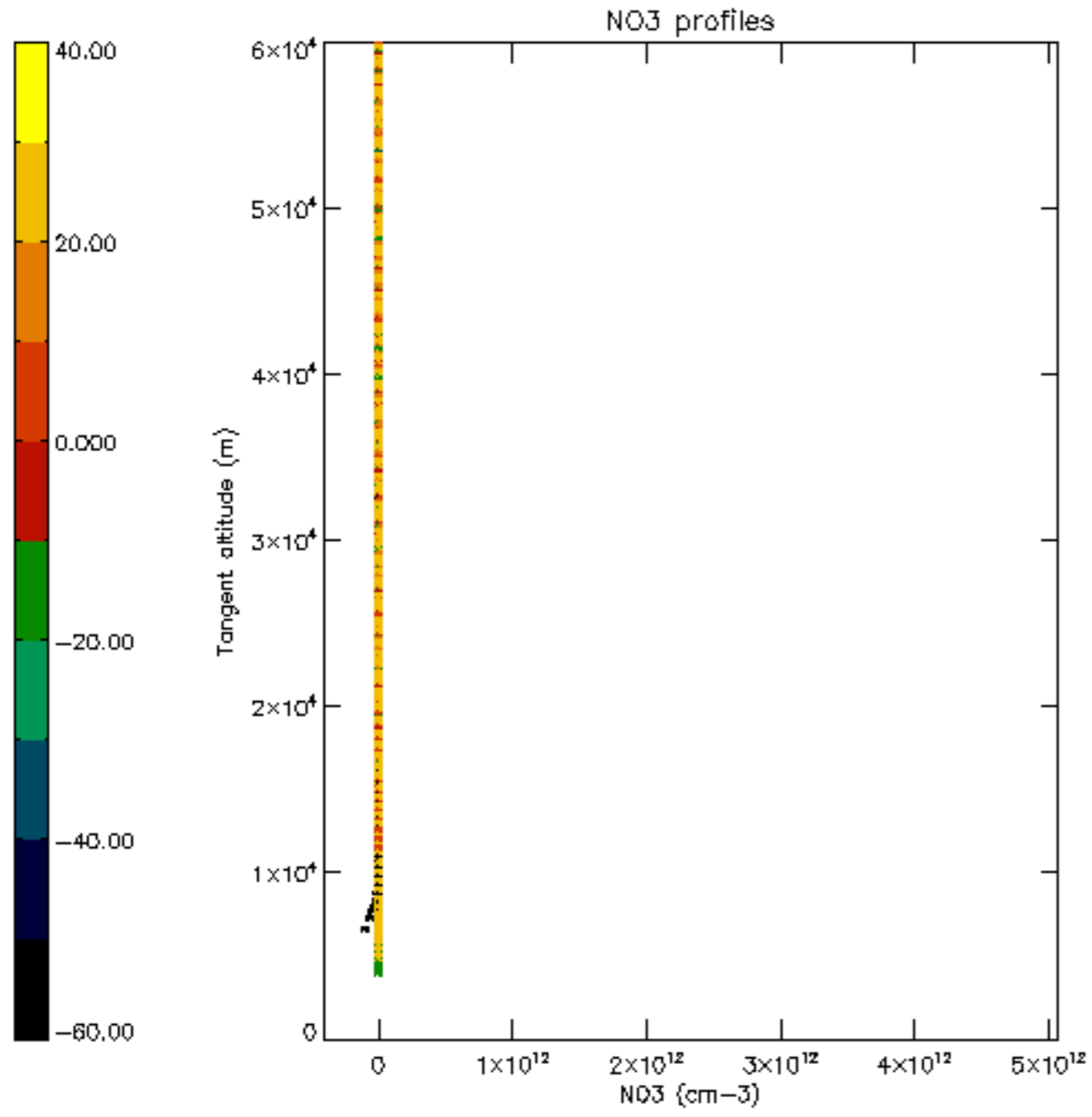


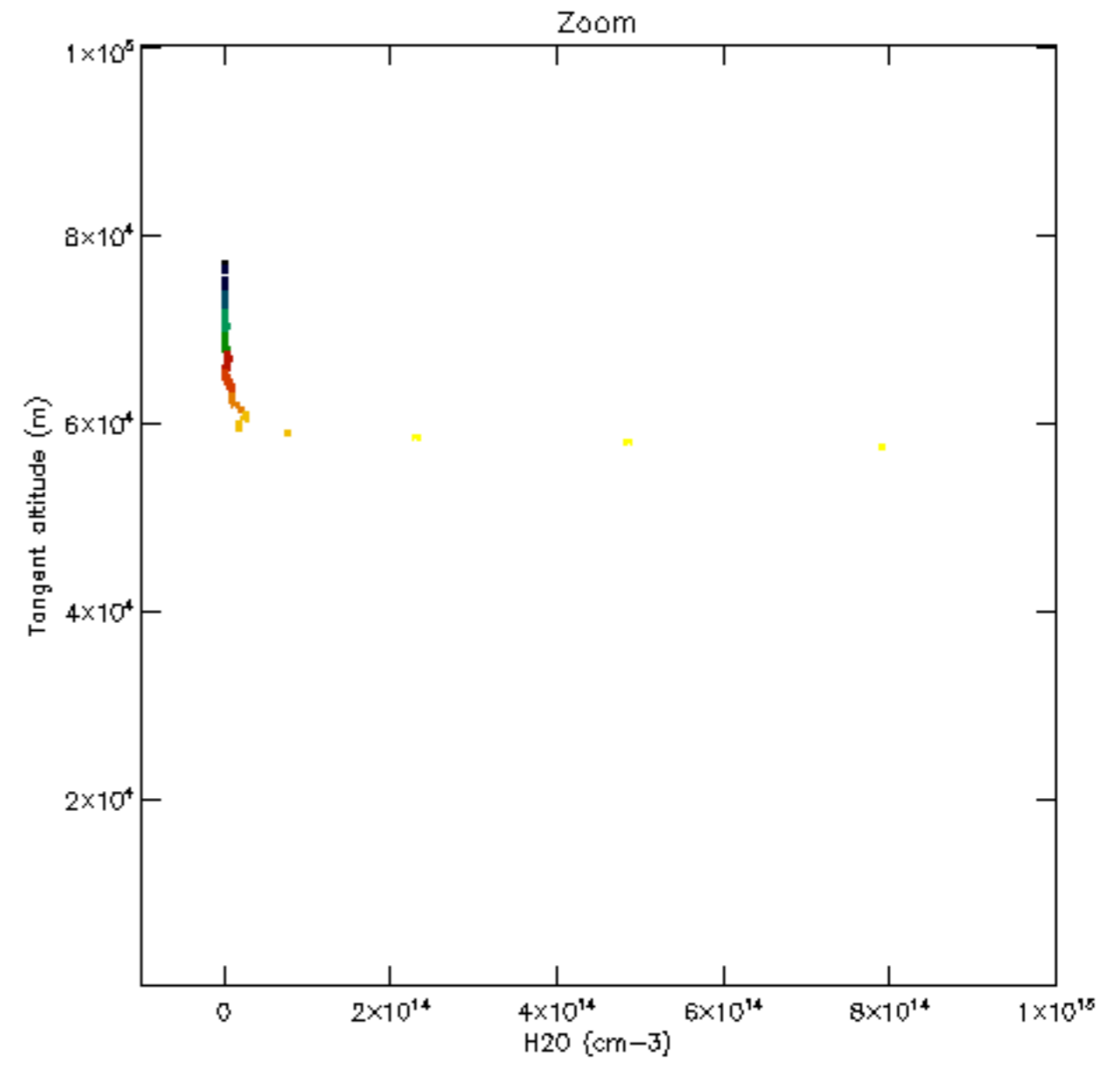
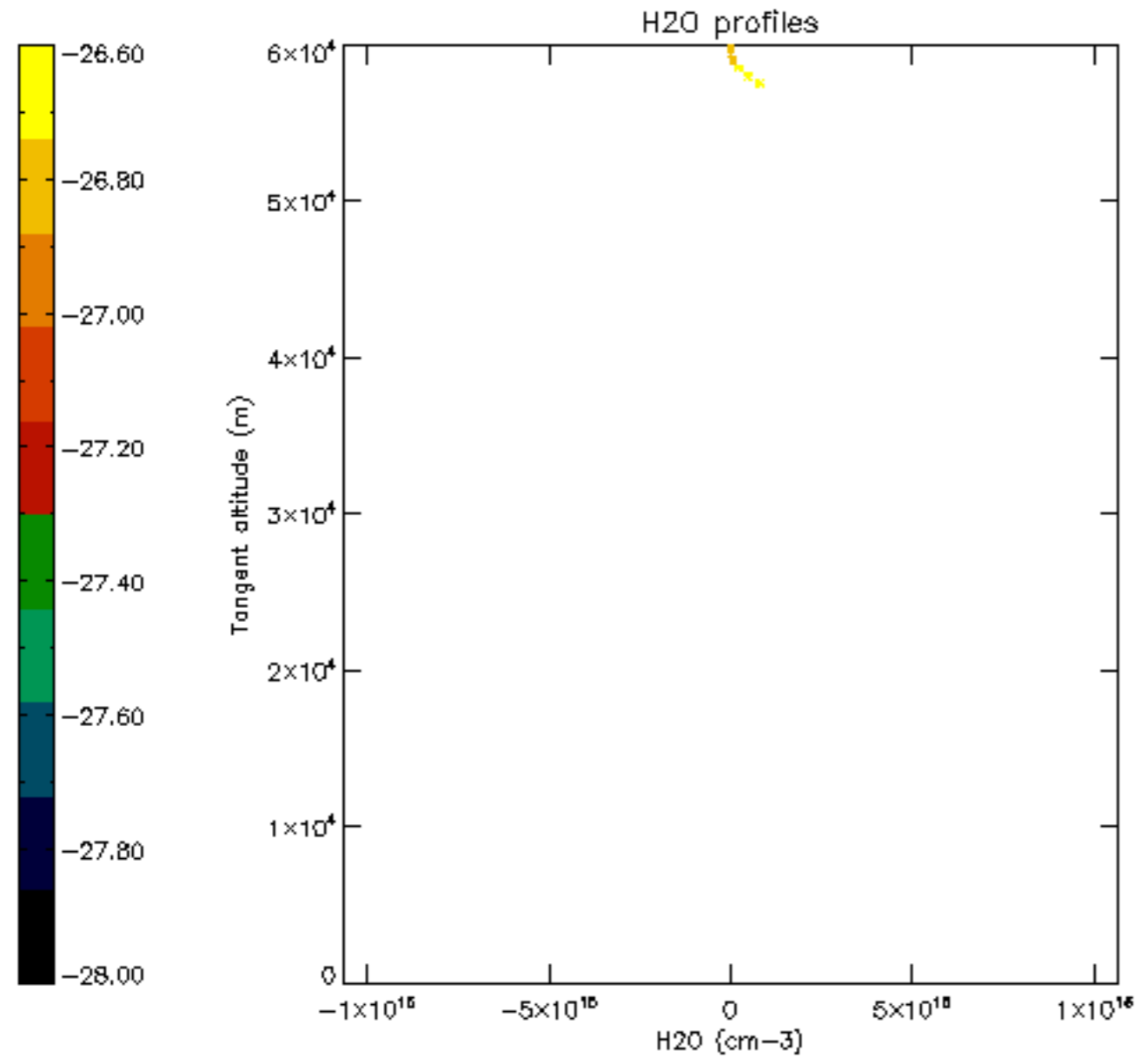


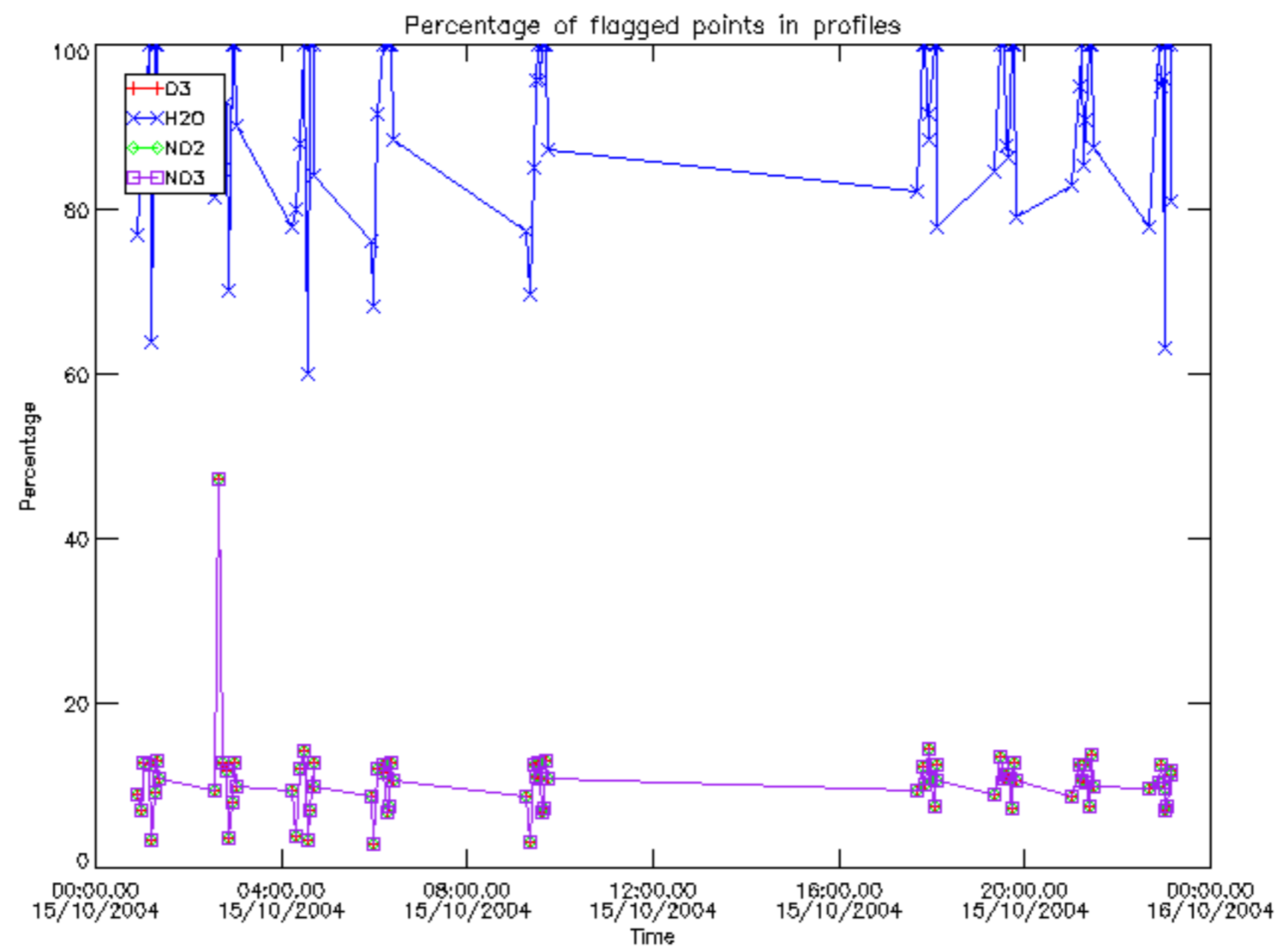




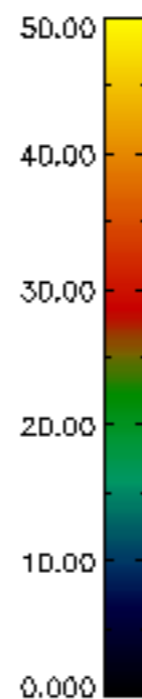
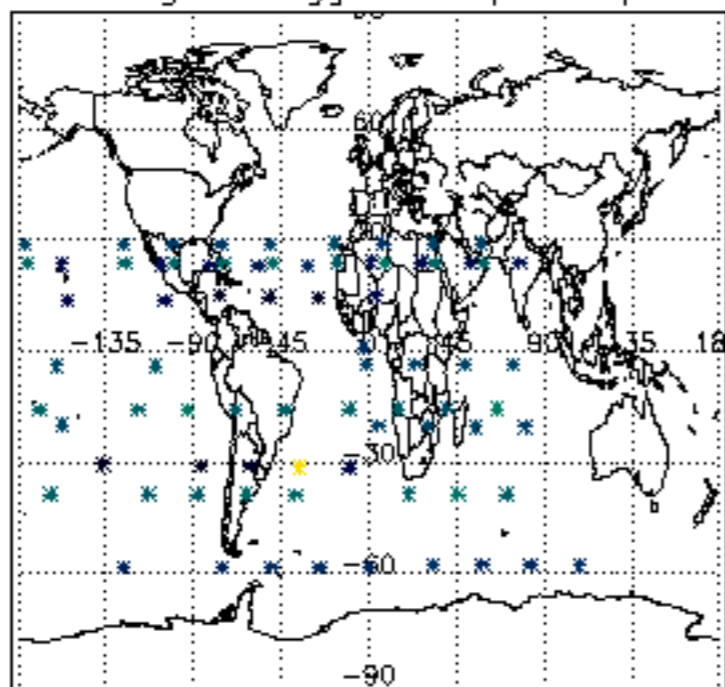




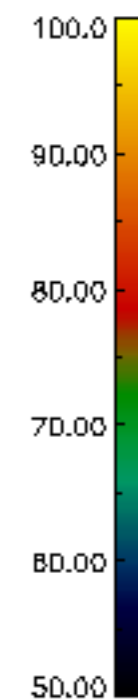
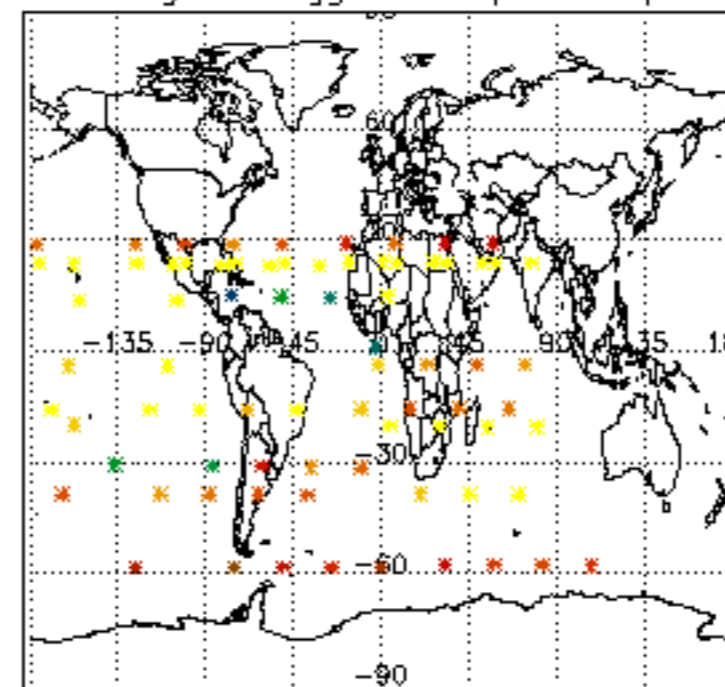




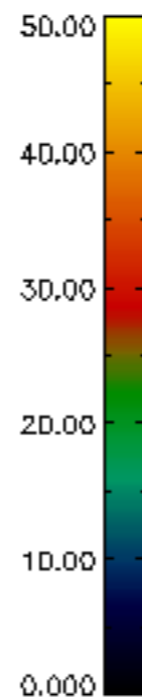
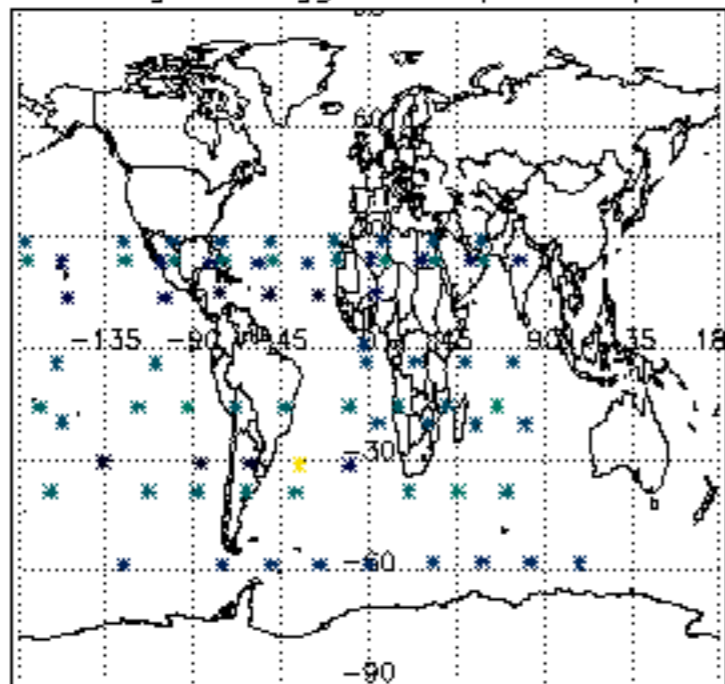
Percentage of flagged data per D3 profile



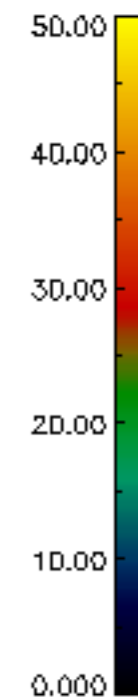
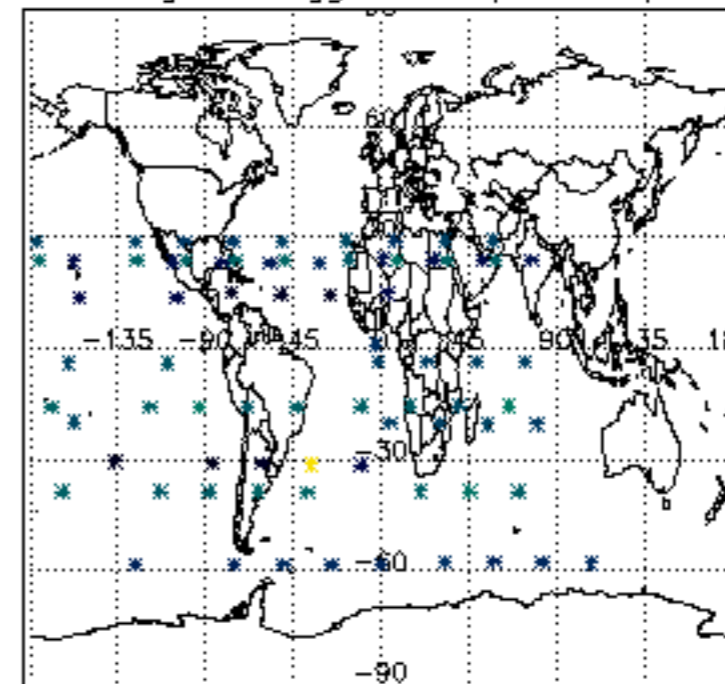
Percentage of flagged data per H2O profile

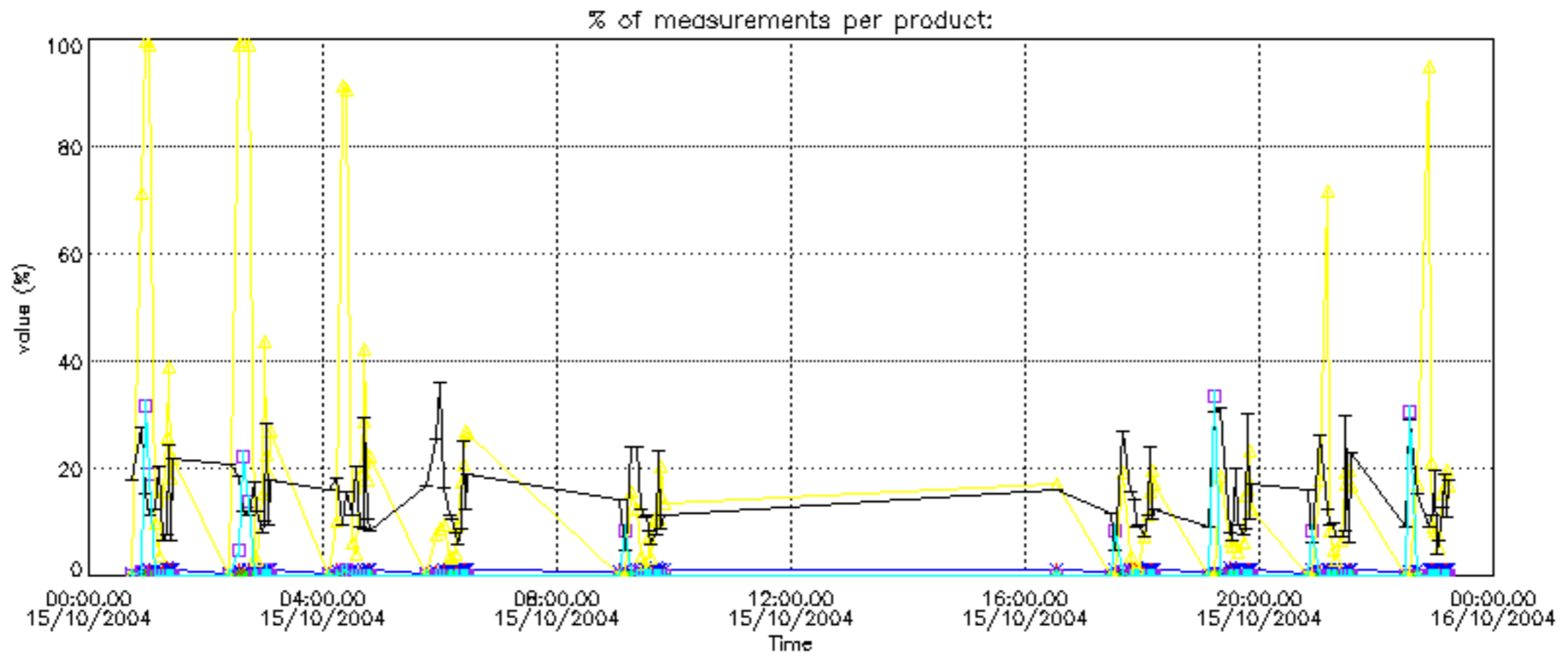


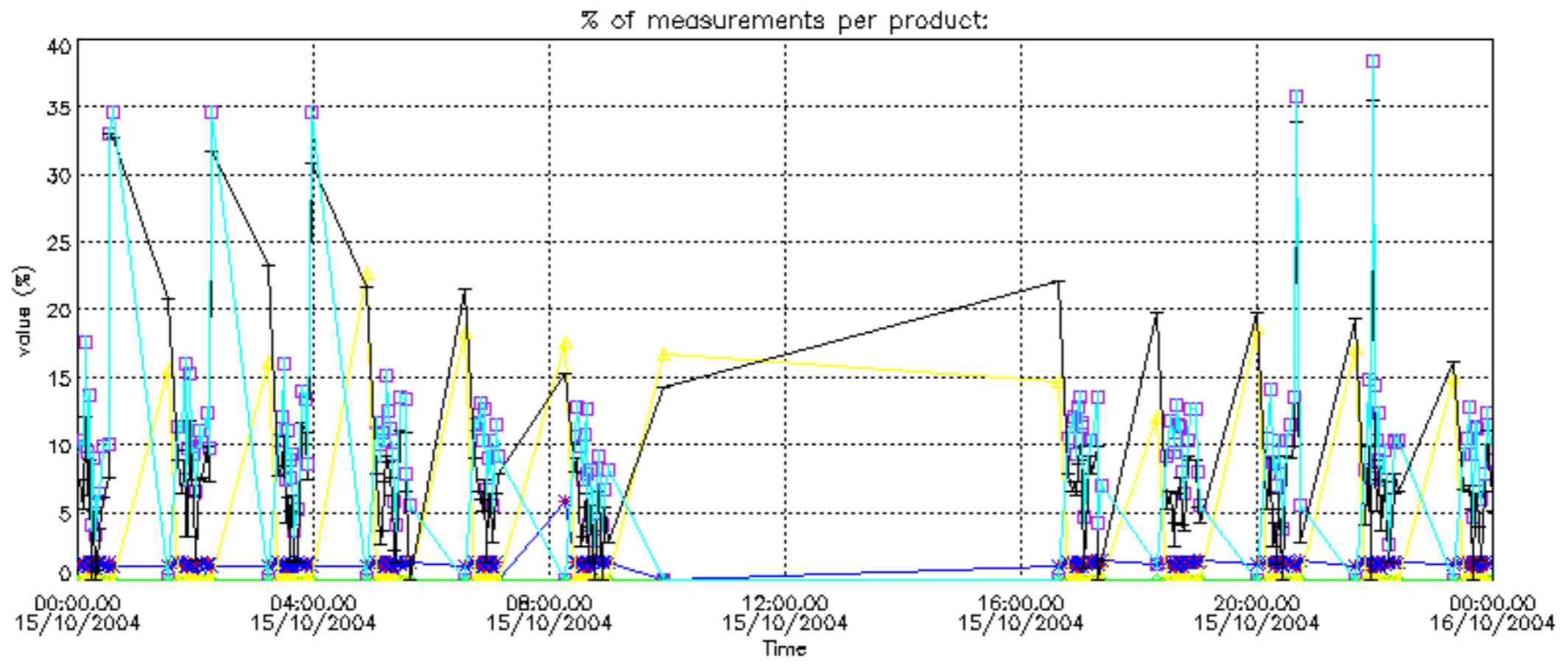
Percentage of flagged data per NO2 profile



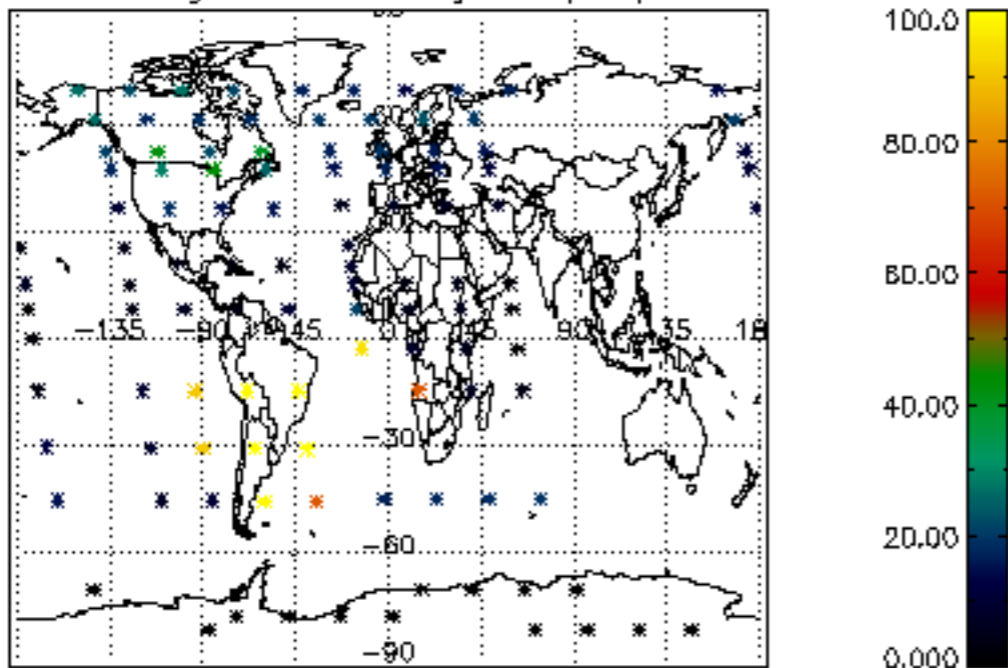
Percentage of flagged data per NO3 profile



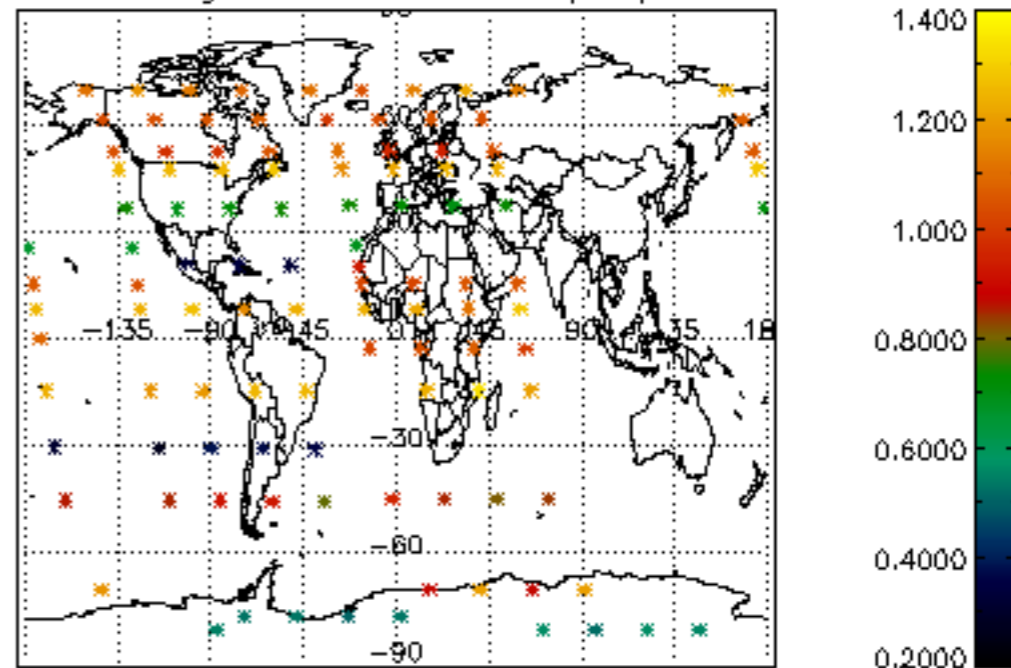




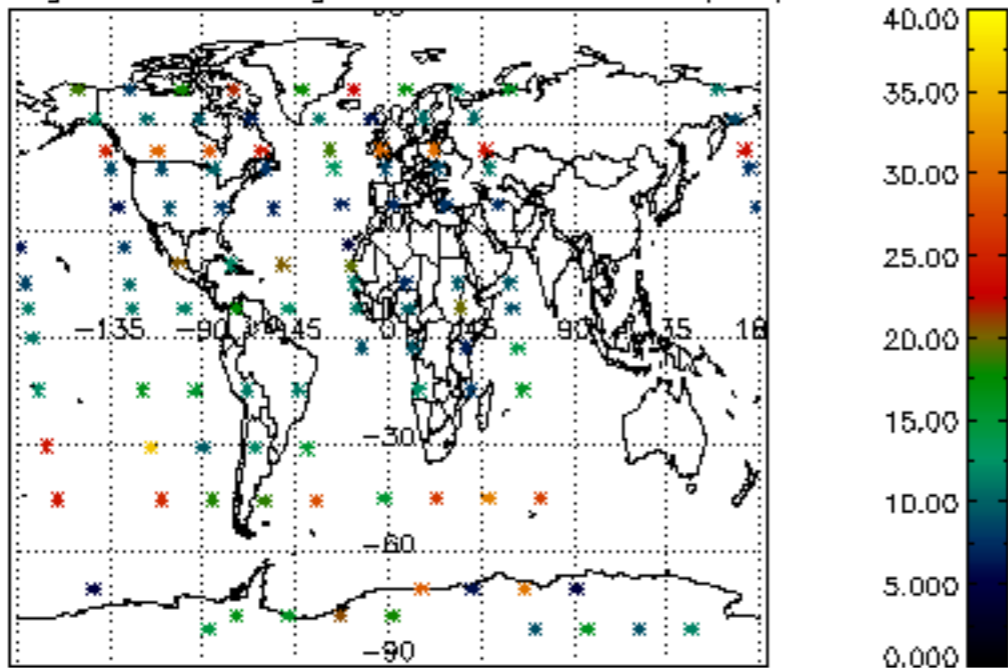
Percentage of cosmic ray hits per profile



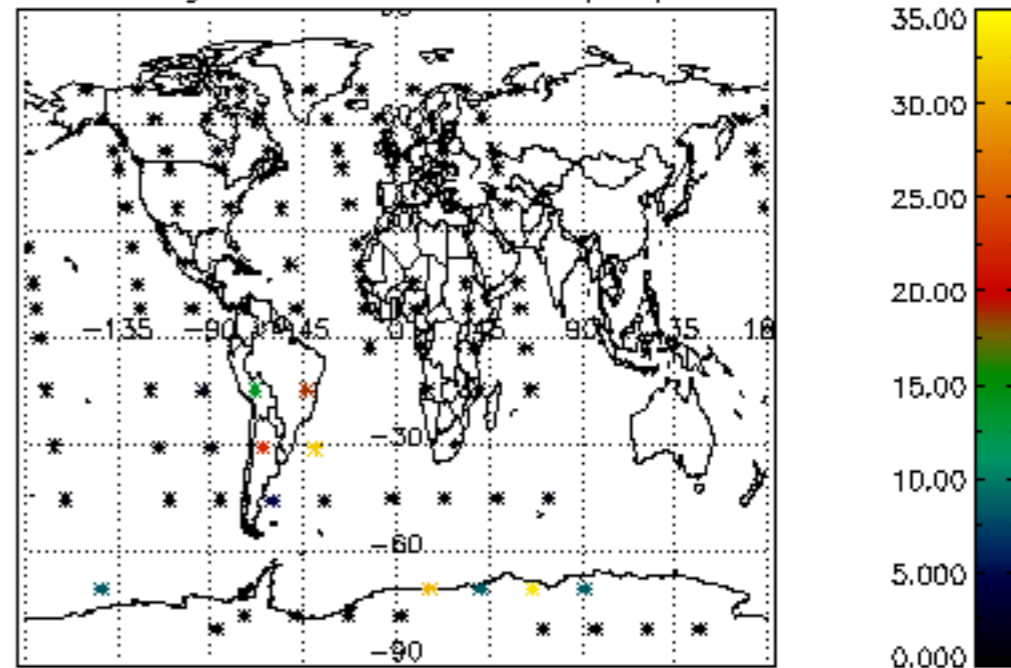
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

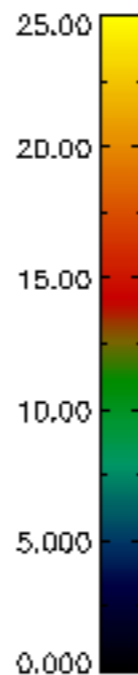
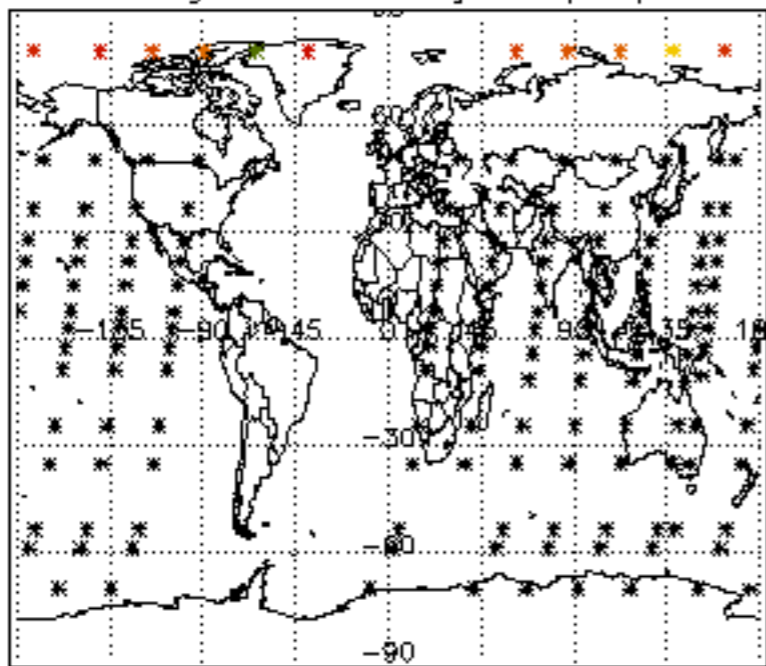


Percentage of saturation errors per profile

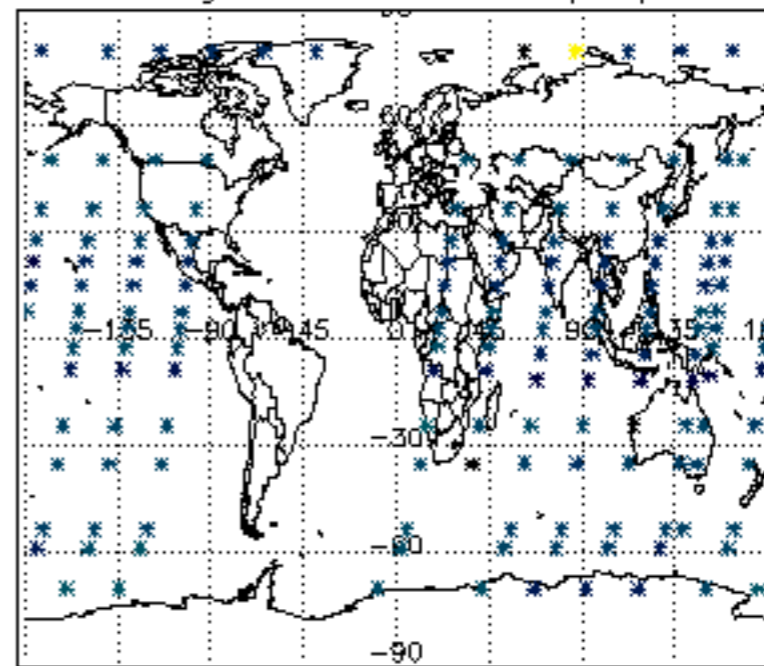




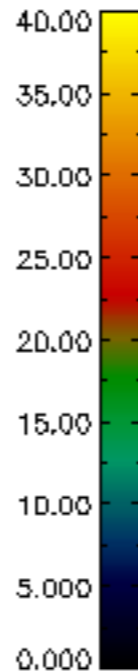
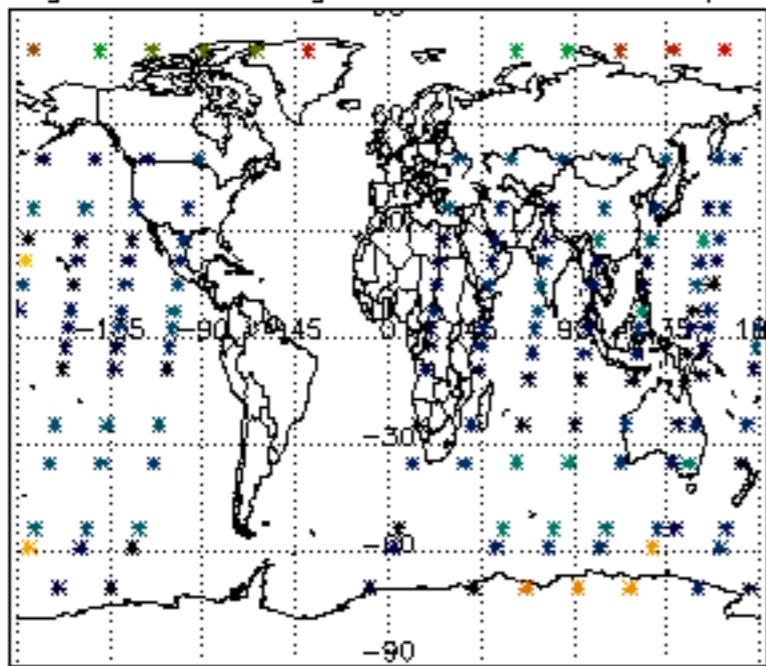
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

