

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	25APR2013 21:16:49
Data source version	GOMOS/6.01
Start time of products	22-10-2008 (22OCT2008 00:00:00)
Stop time of products	23-10-2008 (23OCT2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	268
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

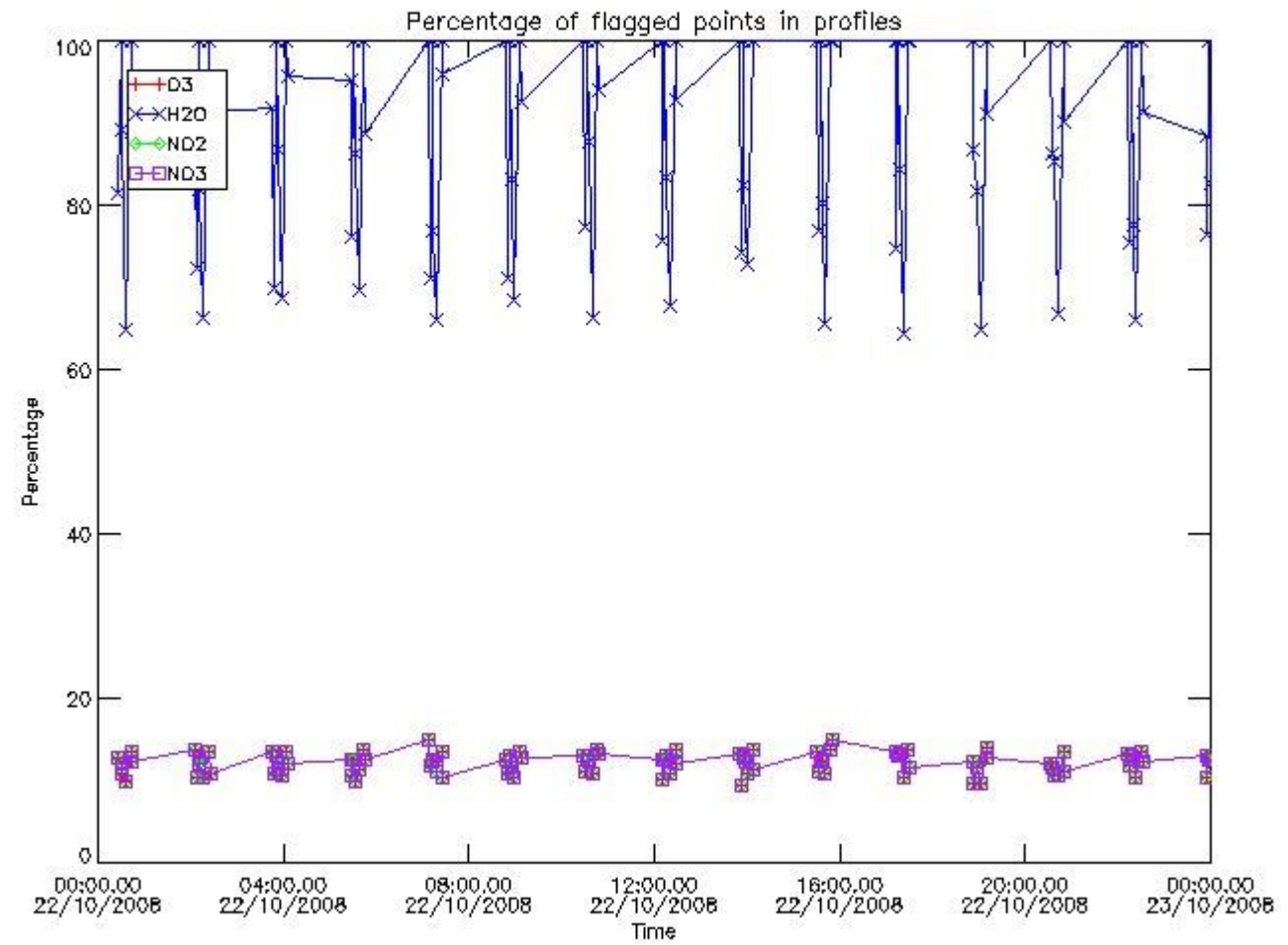
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20081022_000642_000000552073_00116_34739_5955.N1	22-OCT-2008 00:06:42	Bright	54.500	51	41Gam1Leo	2.0100	4500.0	109	34739	No
2	GOM_NL__2PRFIN20081022_002648_000000442073_00116_34739_5956.N1	22-OCT-2008 00:26:48	Dark	43.500	65	Lam Vel	2.2040	4400.0	87	34739	No
3	GOM_NL__2PRFIN20081022_002945_000000432073_00117_34740_5953.N1	22-OCT-2008 00:29:45	Dark	42.500	46	Del Vel	1.9540	10600.	85	34740	No
4	GOM_NL__2PRFIN20081022_003114_000000522073_00117_34740_5954.N1	22-OCT-2008 00:31:14	Dark	51.500	41	Eps Car	1.8600	4100.0	103	34740	No
5	GOM_NL__2PRFIN20081022_003550_000000522073_00117_34740_5955.N1	22-OCT-2008 00:35:50	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	34740	No
6	GOM_NL__2PRFIN20081022_004246_000000382073_00117_34740_5956.N1	22-OCT-2008 00:42:46	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	34740	No
7	GOM_NL__2PRFIN20081022_004411_000000422073_00117_34740_5957.N1	22-OCT-2008 00:44:11	Dark	41.500	9	Alp Eri	0.45300	24000.	83	34740	No
8	GOM_NL__2PRFIN20081022_004705_000000442073_00117_34740_5958.N1	22-OCT-2008 00:47:05	Straylight	44.000	157	The1Eri	2.9060	9300.0	88	34740	No
9	GOM_NL__2PRFIN20081022_005538_000000442073_00117_34740_5959.N1	22-OCT-2008 00:55:38	Straylight	44.000	52	16Bet Cet	2.0370	4500.0	88	34740	No
10	GOM_NL__2PRFIN20081022_010509_000000362073_00117_34740_5960.N1	22-OCT-2008 01:05:09	Bright	35.500	140	88Gam Peg	2.8340	26000.	71	34740	No
11	GOM_NL__2PRFIN20081022_010903_000000362073_00117_34740_5961.N1	22-OCT-2008 01:09:03	Bright	36.000	58	21Alp And	2.0730	11000.	72	34740	No
12	GOM_NL__2PRFIN20081022_011107_000000402073_00117_34740_5962.N1	22-OCT-2008 01:11:07	Bright	40.000	53	43Bet And	2.0480	3300.0	80	34740	No
13	GOM_NL__2PRFIN20081022_011650_000000352073_00117_34740_5963.N1	22-OCT-2008 01:16:50	Bright	34.500	68	18Alp Cas	2.2250	4500.0	69	34740	No
14	GOM_NL__2PRFIN20081022_011808_000000372073_00117_34740_5964.N1	22-OCT-2008 01:18:08	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	34740	No
15	GOM_NL__2PRFIN20081022_012602_000000322073_00117_34740_5965.N1	22-OCT-2008 01:26:02	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	34740	No
16	GOM_NL__2PRFIN20081022_013417_000000352073_00117_34740_5966.N1	22-OCT-2008 01:34:17	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	34740	No
17	GOM_NL__2PRFIN20081022_013551_000000352073_00117_34740_5967.N1	22-OCT-2008 01:35:51	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	34740	No
18	GOM_NL__2PRFIN20081022_013921_000000362073_00117_34740_5968.N1	22-OCT-2008 01:39:21	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	34740	No
19	GOM_NL__2PRFIN20081022_014718_000000582073_00117_34740_5969.N1	22-OCT-2008 01:47:18	Bright	57.500	51	41Gam1Leo	2.0100	4500.0	115	34740	No
20	GOM_NL__2PRFIN20081022_020553_000000372073_00117_34740_5970.N1	22-OCT-2008 02:05:53	Dark	37.000	113	Mu Vel	2.6920	5000.0	74	34740	No
21	GOM_NL__2PRFIN20081022_020725_000000492073_00117_34740_5971.N1	22-OCT-2008 02:07:25	Dark	49.000	65	Lam Vel	2.2040	4400.0	98	34740	No
22	GOM_NL__2PRFIN20081022_021022_000000402073_00118_34741_5969.N1	22-OCT-2008 02:10:22	Dark	40.000	46	Del Vel	1.9540	10600.	80	34741	No
23	GOM_NL__2PRFIN20081022_021151_000000422073_00118_34741_5970.N1	22-OCT-2008 02:11:51	Dark	42.000	41	Eps Car	1.8600	4100.0	84	34741	No
24	GOM_NL__2PRFIN20081022_021627_000000502073_00118_34741_5971.N1	22-OCT-2008 02:16:27	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	34741	No
25	GOM_NL__2PRFIN20081022_022322_000000382073_00118_34741_5972.N1	22-OCT-2008 02:23:22	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	34741	No
26	GOM_NL__2PRFIN20081022_022447_000000472073_00118_34741_5973.N1	22-OCT-2008 02:24:47	Dark	47.000	9	Alp Eri	0.45300	24000.	94	34741	No
27	GOM_NL__2PRFIN20081022_022741_000000432073_00118_34741_5974.N1	22-OCT-2008 02:27:41	Straylight	43.000	157	The1Eri	2.9060	9300.0	86	34741	No
28	GOM_NL__2PRFIN20081022_023614_000000422073_00118_34741_5975.N1	22-OCT-2008 02:36:14	Straylight	42.000	52	16Bet Cet	2.0370	4500.0	84	34741	No
29	GOM_NL__2PRFIN20081022_024545_000000362073_00118_34741_5976.N1	22-OCT-2008 02:45:45	Bright	35.500	140	88Gam Peg	2.8340	26000.	71	34741	No
30	GOM_NL__2PRFIN20081022_024939_000000362073_00118_34741_5977.N1	22-OCT-2008 02:49:39	Bright	36.000	58	21Alp And	2.0730	11000.	72	34741	No
31	GOM_NL__2PRFIN20081022_025143_000000402073_00118_34741_5978.N1	22-OCT-2008 02:51:43	Bright	39.500	53	43Bet And	2.0480	3300.0	79	34741	No
32	GOM_NL__2PRFIN20081022_025726_000000372073_00118_34741_5979.N1	22-OCT-2008 02:57:26	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	34741	No
33	GOM_NL__2PRFIN20081022_025844_000000372073_00118_34741_5980.N1	22-OCT-2008 02:58:44	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	34741	No
34	GOM_NL__2PRFIN20081022_030638_000000342073_00118_34741_5981.N1	22-OCT-2008 03:06:38	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	34741	No
35	GOM_NL__2PRFIN20081022_031453_000000392073_00118_34741_5982.N1	22-OCT-2008 03:14:53	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	34741	No
36	GOM_NL__2PRFIN20081022_031627_000000372073_00118_34741_5983.N1	22-OCT-2008 03:16:27	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	34741	No
37	GOM_NL__2PRFIN20081022_031957_000000352073_00118_34741_5984.N1	22-OCT-2008 03:19:57	Bright	34.500	174	52Psi UMa	3.0040	4400.0	69	34741	No
38	GOM_NL__2PRFIN20081022_032755_000000602073_00118_34741_5985.N1	22-OCT-2008 03:27:55	Bright	60.000	51	41Gam1Leo	2.0100	4500.0	120	34741	No
39	GOM_NL__2PRFIN20081022_034629_000000382073_00118_34741_5986.N1	22-OCT-2008 03:46:29	Dark	37.500	113	Mu Vel	2.6920	5000.0	75	34741	No
40	GOM_NL__2PRFIN20081022_034801_000000472073_00118_34741_5987.N1	22-OCT-2008 03:48:01	Dark	47.000	65	Lam Vel	2.2040	4400.0	94	34741	No
41	GOM_NL__2PRFIN20081022_035058_000000402073_00119_34742_5979.N1	22-OCT-2008 03:50:58	Dark	39.500	46	Del Vel	1.9540	10600.	79	34742	No
42	GOM_NL__2PRFIN20081022_035227_000000502073_00119_34742_5980.N1	22-OCT-2008 03:52:27	Dark	49.500	41	Eps Car	1.8600	4100.0	99	34742	No

220	GOM_NL__2PRFIN20081022_193741_000000402073_00128_34751_6131.N1	22-OCT-2008 19:37:41	Bright	39.500	53	43Bet And	2.0480	3300.0	79	34751	No
221	GOM_NL__2PRFIN20081022_194324_000000372073_00128_34751_6132.N1	22-OCT-2008 19:43:24	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	34751	No
222	GOM_NL__2PRFIN20081022_194442_000000372073_00128_34751_6133.N1	22-OCT-2008 19:44:42	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	34751	No
223	GOM_NL__2PRFIN20081022_195237_000000362073_00128_34751_6134.N1	22-OCT-2008 19:52:37	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	34751	No
224	GOM_NL__2PRFIN20081022_200052_000000392073_00128_34751_6135.N1	22-OCT-2008 20:00:52	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	34751	No
225	GOM_NL__2PRFIN20081022_200227_000000382073_00128_34751_6136.N1	22-OCT-2008 20:02:27	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	34751	No
226	GOM_NL__2PRFIN20081022_200557_000000542073_00128_34751_6137.N1	22-OCT-2008 20:05:57	Bright	54.000	174	52Psi UMa	3.0040	4400.0	108	34751	No
227	GOM_NL__2PRFIN20081022_201357_000000602073_00128_34751_6138.N1	22-OCT-2008 20:13:57	Bright	60.000	51	41Gam1Leo	2.0100	4500.0	120	34751	No
228	GOM_NL__2PRFIN20081022_203231_000000432073_00128_34751_6139.N1	22-OCT-2008 20:32:31	Dark	42.500	113	Mu Vel	2.6920	5000.0	85	34751	No
229	GOM_NL__2PRFIN20081022_203408_000000442073_00128_34751_6140.N1	22-OCT-2008 20:34:08	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	34751	No
230	GOM_NL__2PRFIN20081022_203832_000000482073_00129_34752_6133.N1	22-OCT-2008 20:38:32	Dark	48.000	41	Eps Car	1.8600	4100.0	96	34752	No
231	GOM_NL__2PRFIN20081022_204311_000000492073_00129_34752_6134.N1	22-OCT-2008 20:43:11	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	34752	No
232	GOM_NL__2PRFIN20081022_205000_000000382073_00129_34752_6135.N1	22-OCT-2008 20:50:00	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	34752	No
233	GOM_NL__2PRFIN20081022_205125_000000462073_00129_34752_6136.N1	22-OCT-2008 20:51:25	Dark	45.500	9	Alp Eri	0.45300	24000.	91	34752	No
234	GOM_NL__2PRFIN20081022_205422_000000442073_00129_34752_6137.N1	22-OCT-2008 20:54:22	Straylight	44.000	157	The1Eri	2.9060	9300.0	88	34752	No
235	GOM_NL__2PRFIN20081022_210251_000000422073_00129_34752_6138.N1	22-OCT-2008 21:02:51	Straylight	42.000	52	16Bet Cet	2.0370	4500.0	84	34752	No
236	GOM_NL__2PRFIN20081022_211221_000000352073_00129_34752_6139.N1	22-OCT-2008 21:12:21	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	34752	No
237	GOM_NL__2PRFIN20081022_211615_000000372073_00129_34752_6140.N1	22-OCT-2008 21:16:15	Bright	36.500	58	21Alp And	2.0730	11000.	73	34752	No
238	GOM_NL__2PRFIN20081022_211816_000000382073_00129_34752_6141.N1	22-OCT-2008 21:18:16	Bright	38.000	53	43Bet And	2.0480	3300.0	76	34752	No
239	GOM_NL__2PRFIN20081022_212400_000000372073_00129_34752_6142.N1	22-OCT-2008 21:24:00	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	34752	No
240	GOM_NL__2PRFIN20081022_212518_000000372073_00129_34752_6143.N1	22-OCT-2008 21:25:18	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	34752	No
241	GOM_NL__2PRFIN20081022_213313_000000362073_00129_34752_6144.N1	22-OCT-2008 21:33:13	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	34752	No
242	GOM_NL__2PRFIN20081022_214128_000000392073_00129_34752_6145.N1	22-OCT-2008 21:41:28	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	34752	No
243	GOM_NL__2PRFIN20081022_214303_000000352073_00129_34752_6146.N1	22-OCT-2008 21:43:03	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	34752	No
244	GOM_NL__2PRFIN20081022_214633_000000372073_00129_34752_6147.N1	22-OCT-2008 21:46:33	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	34752	No
245	GOM_NL__2PRFIN20081022_215433_000000422073_00129_34752_6148.N1	22-OCT-2008 21:54:33	Bright	42.000	51	41Gam1Leo	2.0100	4500.0	84	34752	No
246	GOM_NL__2PRFIN20081022_221307_000000392073_00129_34752_6149.N1	22-OCT-2008 22:13:07	Dark	38.500	113	Mu Vel	2.6920	5000.0	77	34752	No
247	GOM_NL__2PRFIN20081022_221444_000000432073_00129_34752_6150.N1	22-OCT-2008 22:14:44	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	34752	No
248	GOM_NL__2PRFIN20081022_221740_000000402073_00130_34753_6156.N1	22-OCT-2008 22:17:40	Dark	39.500	46	Del Vel	1.9540	10600.	79	34753	No
249	GOM_NL__2PRFIN20081022_221908_000000412073_00130_34753_6157.N1	22-OCT-2008 22:19:08	Dark	40.500	41	Eps Car	1.8600	4100.0	81	34753	No
250	GOM_NL__2PRFIN20081022_222348_000000492073_00130_34753_6158.N1	22-OCT-2008 22:23:48	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	34753	No
251	GOM_NL__2PRFIN20081022_223036_000000382073_00130_34753_6159.N1	22-OCT-2008 22:30:36	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	34753	No
252	GOM_NL__2PRFIN20081022_223202_000000462073_00130_34753_6160.N1	22-OCT-2008 22:32:02	Dark	46.000	9	Alp Eri	0.45300	24000.	92	34753	No
253	GOM_NL__2PRFIN20081022_223458_000000422073_00130_34753_6161.N1	22-OCT-2008 22:34:58	Straylight	41.500	157	The1Eri	2.9060	9300.0	83	34753	No
254	GOM_NL__2PRFIN20081022_224327_000000432073_00130_34753_6162.N1	22-OCT-2008 22:43:27	Straylight	43.000	52	16Bet Cet	2.0370	4500.0	86	34753	No
255	GOM_NL__2PRFIN20081022_225257_000000352073_00130_34753_6163.N1	22-OCT-2008 22:52:57	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	34753	No
256	GOM_NL__2PRFIN20081022_225651_000000362073_00130_34753_6164.N1	22-OCT-2008 22:56:51	Bright	36.000	58	21Alp And	2.0730	11000.	72	34753	No
257	GOM_NL__2PRFIN20081022_225852_000000402073_00130_34753_6165.N1	22-OCT-2008 22:58:52	Bright	40.000	53	43Bet And	2.0480	3300.0	80	34753	No
258	GOM_NL__2PRFIN20081022_230436_000000372073_00130_34753_6166.N1	22-OCT-2008 23:04:36	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	34753	No
259	GOM_NL__2PRFIN20081022_230553_000000372073_00130_34753_6167.N1	22-OCT-2008 23:05:53	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	34753	No
260	GOM_NL__2PRFIN20081022_231349_000000362073_00130_34753_6168.N1	22-OCT-2008 23:13:49	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	34753	No
261	GOM_NL__2PRFIN20081022_232203_000000372073_00130_34753_6169.N1	22-OCT-2008 23:22:03	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	34753	No
262	GOM_NL__2PRFIN20081022_232338_000000542073_00130_34753_6170.N1	22-OCT-2008 23:23:38	Bright	54.000	82	48Bet UMa	2.3650	10600.	108	34753	No
263	GOM_NL__2PRFIN20081022_232709_000000352073_00130_34753_6171.N1	22-OCT-2008 23:27:09	Bright	34.500	174	52Psi UMa	3.0040	4400.0	69	34753	No
264	GOM_NL__2PRFIN20081022_233509_000000412073_00130_34753_6172.N1	22-OCT-2008 23:35:09	Bright	40.500	51	41Gam1Leo	2.0100	4500.0	81	34753	No
265	GOM_NL__2PRFIN20081022_235343_000000402073_00130_34753_6173.N1	22-OCT-2008 23:53:43	Dark	39.500	113	Mu Vel	2.6920	5000.0	79	34753	No
266	GOM_NL__2PRFIN20081022_235521_000000492073_00130_34753_6174.N1	22-OCT-2008 23:55:21	Dark	49.000	65	Lam Vel	2.2040	4400.0	98	34753	No
267	GOM_NL__2PRFIN20081022_235816_000000412073_00131_34754_6171.N1	22-OCT-2008 23:58:16	Dark	41.000	46	Del Vel	1.9540	10600.	82	34754	No
268	GOM_NL__2PRFIN20081022_235945_000000412073_00131_34754_6172.N1	22-OCT-2008 23:59:45	Dark	41.000	41	Eps Car	1.8600	4100.0	82	34754	No

3. Quality information per product

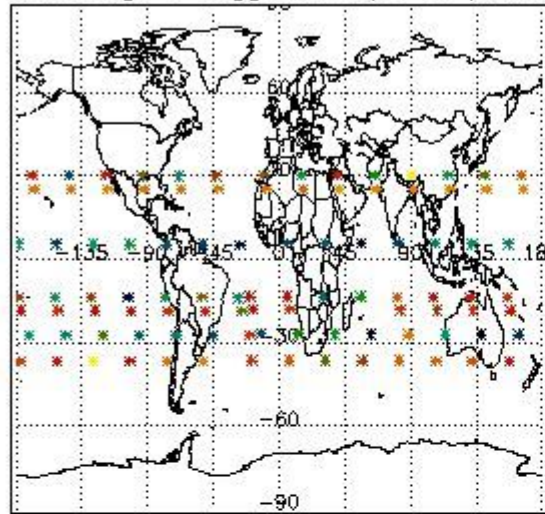
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

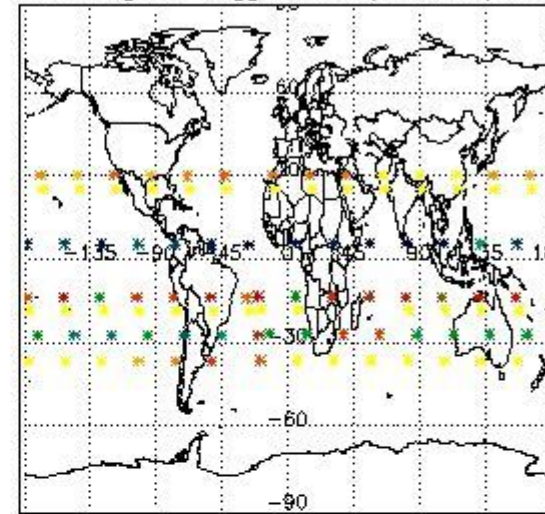


3.2 Plot quality information per product (world map)

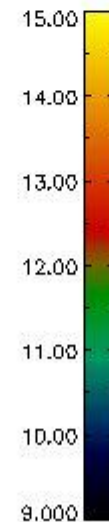
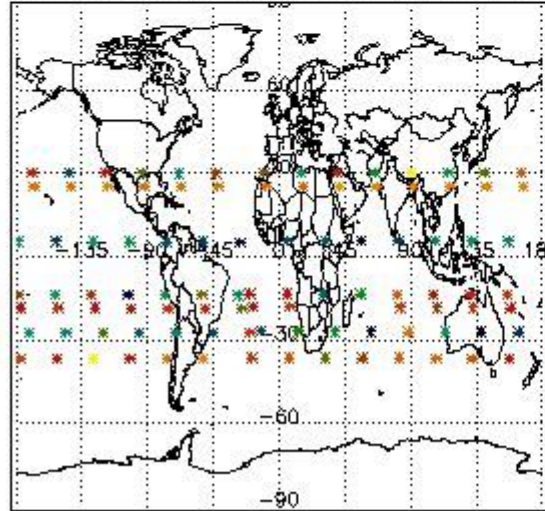
Percentage of flagged data per O3 profile



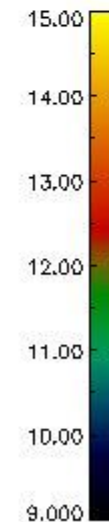
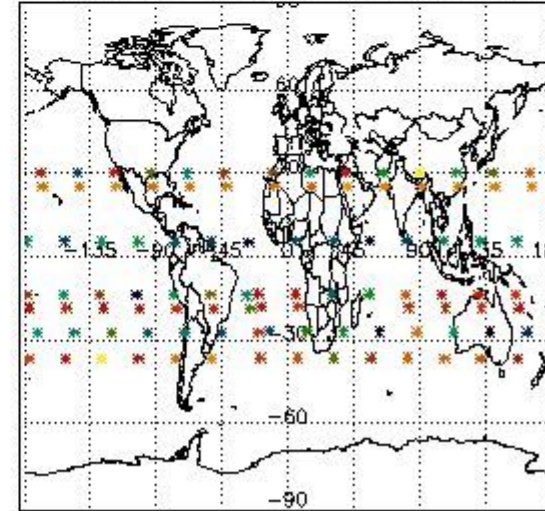
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

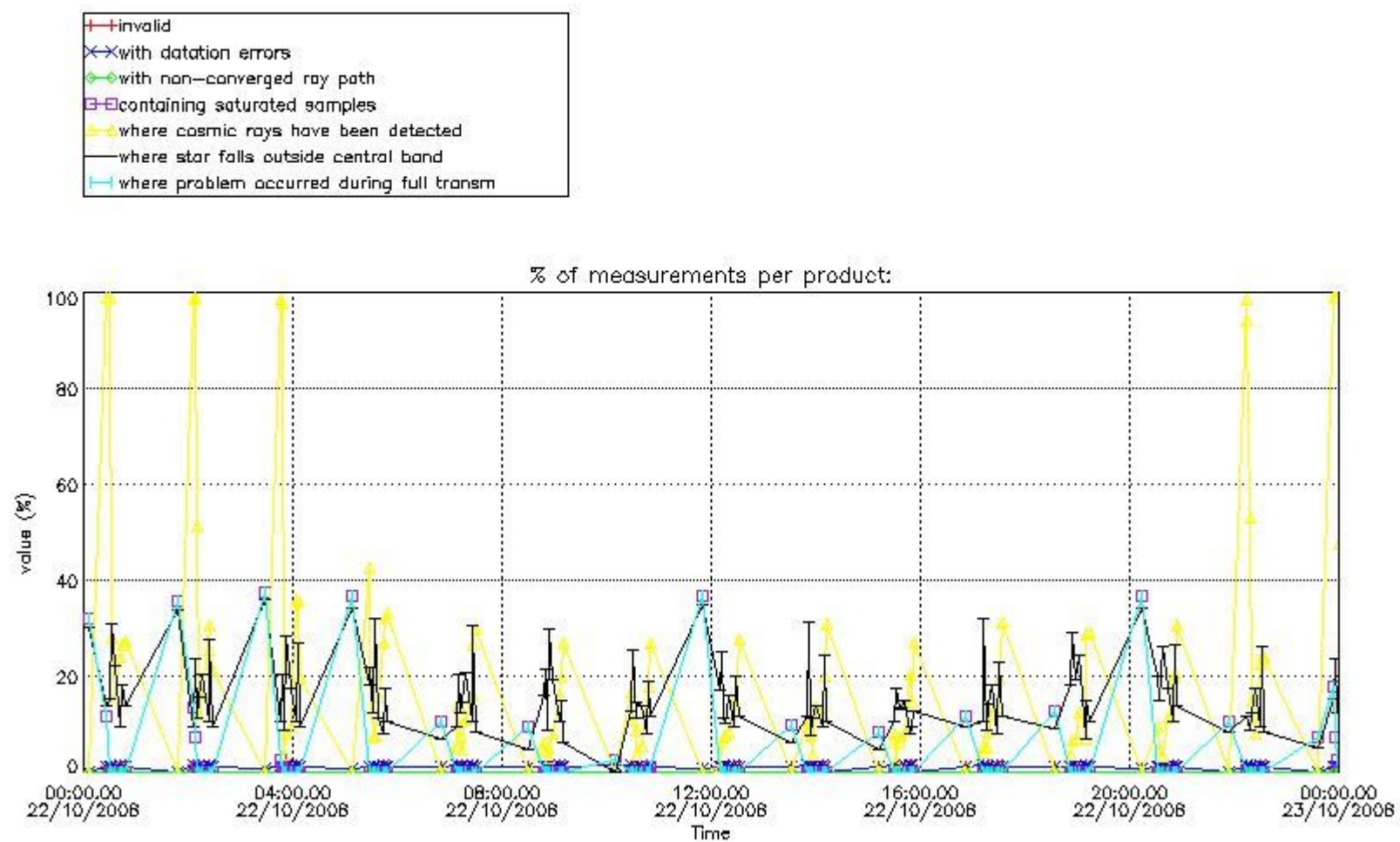


4. Level 1 quality information per product

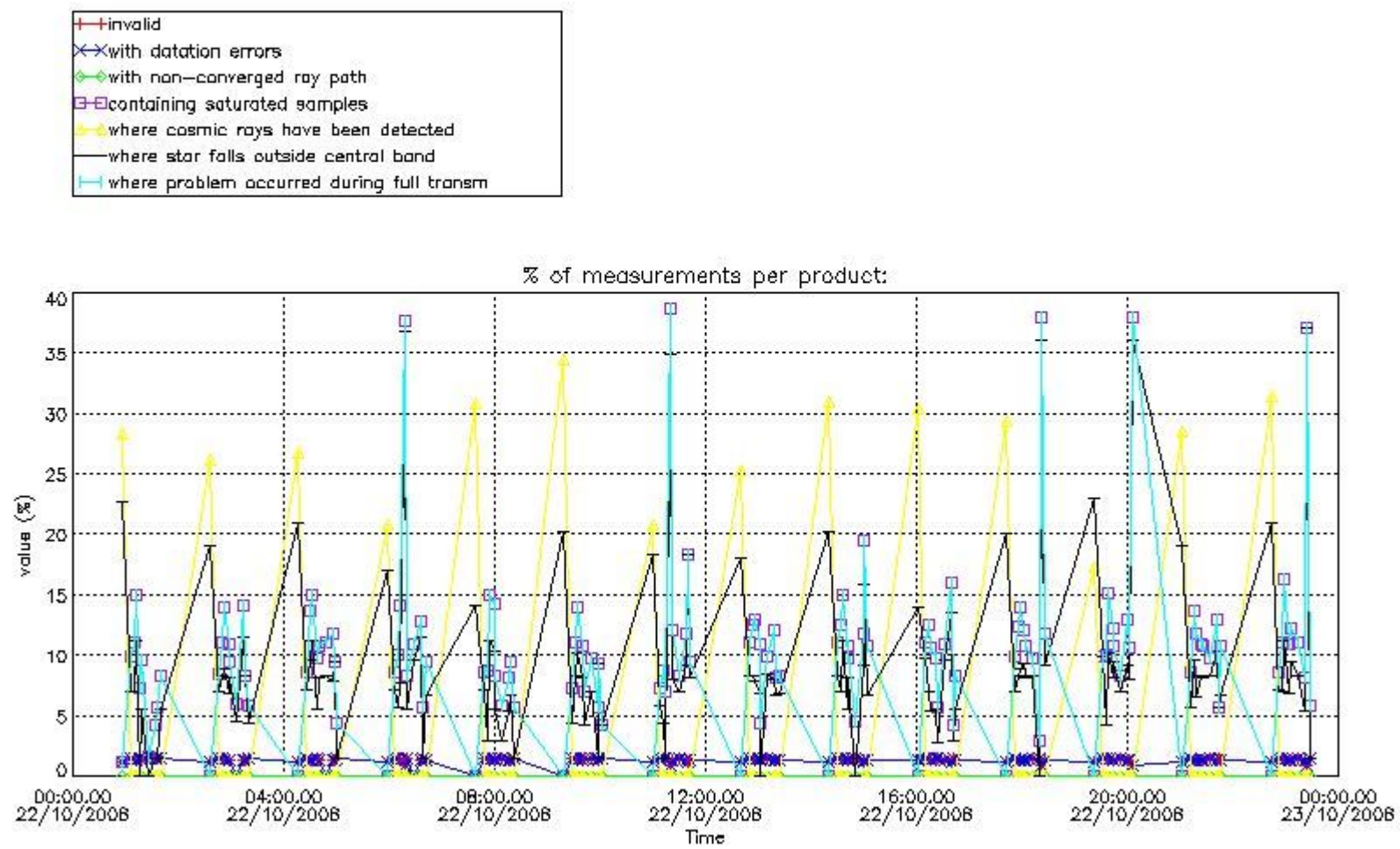
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



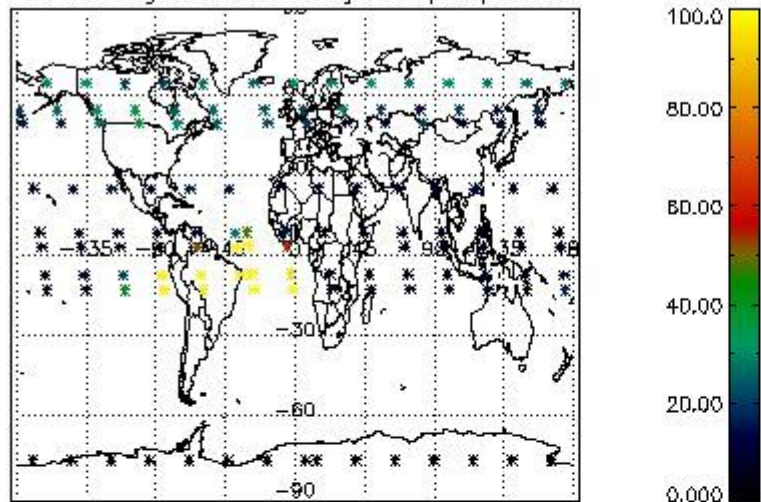
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



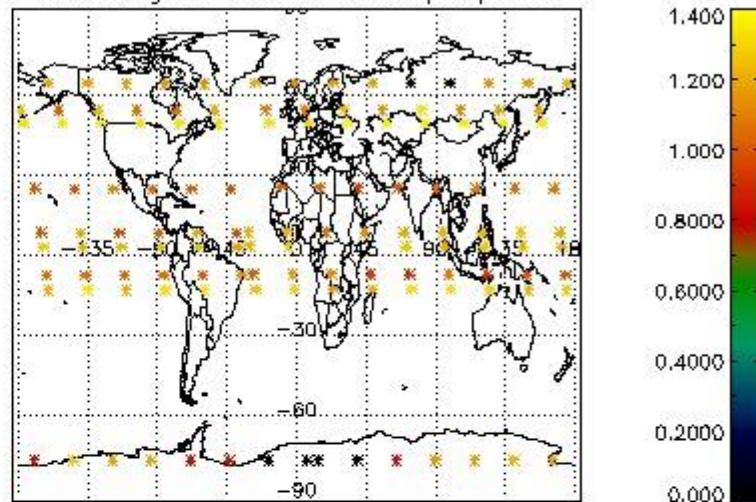
4.2 Plot quality information per product coming from level 1b processing (world map)

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

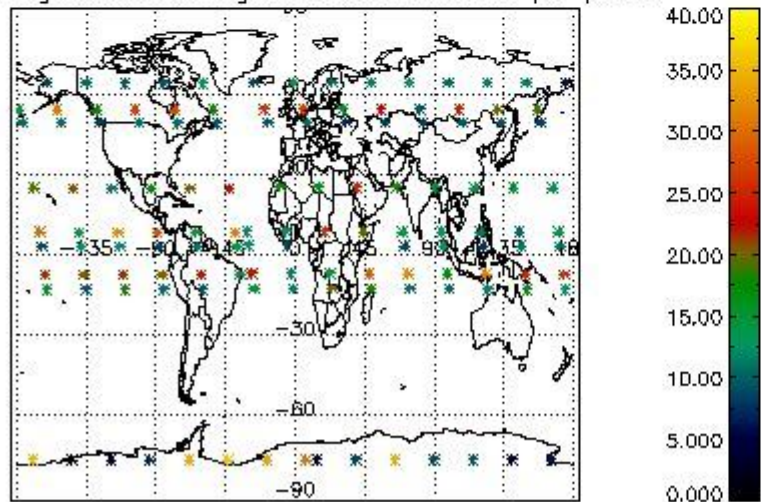
Percentage of cosmic ray hits per profile



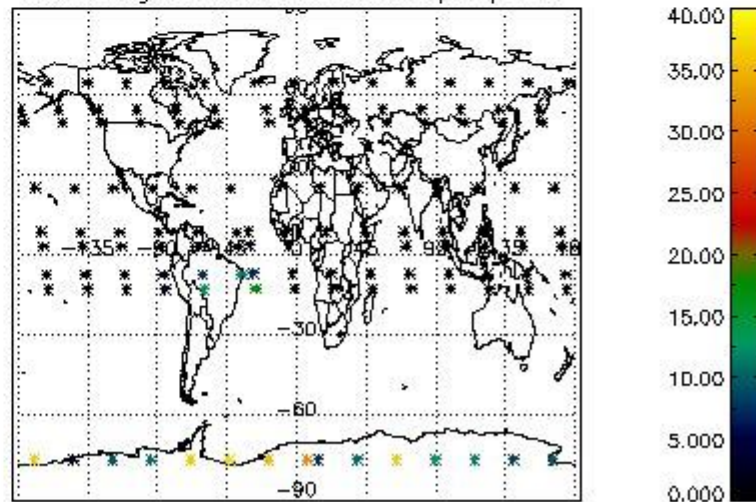
Percentage of datation errors per profile



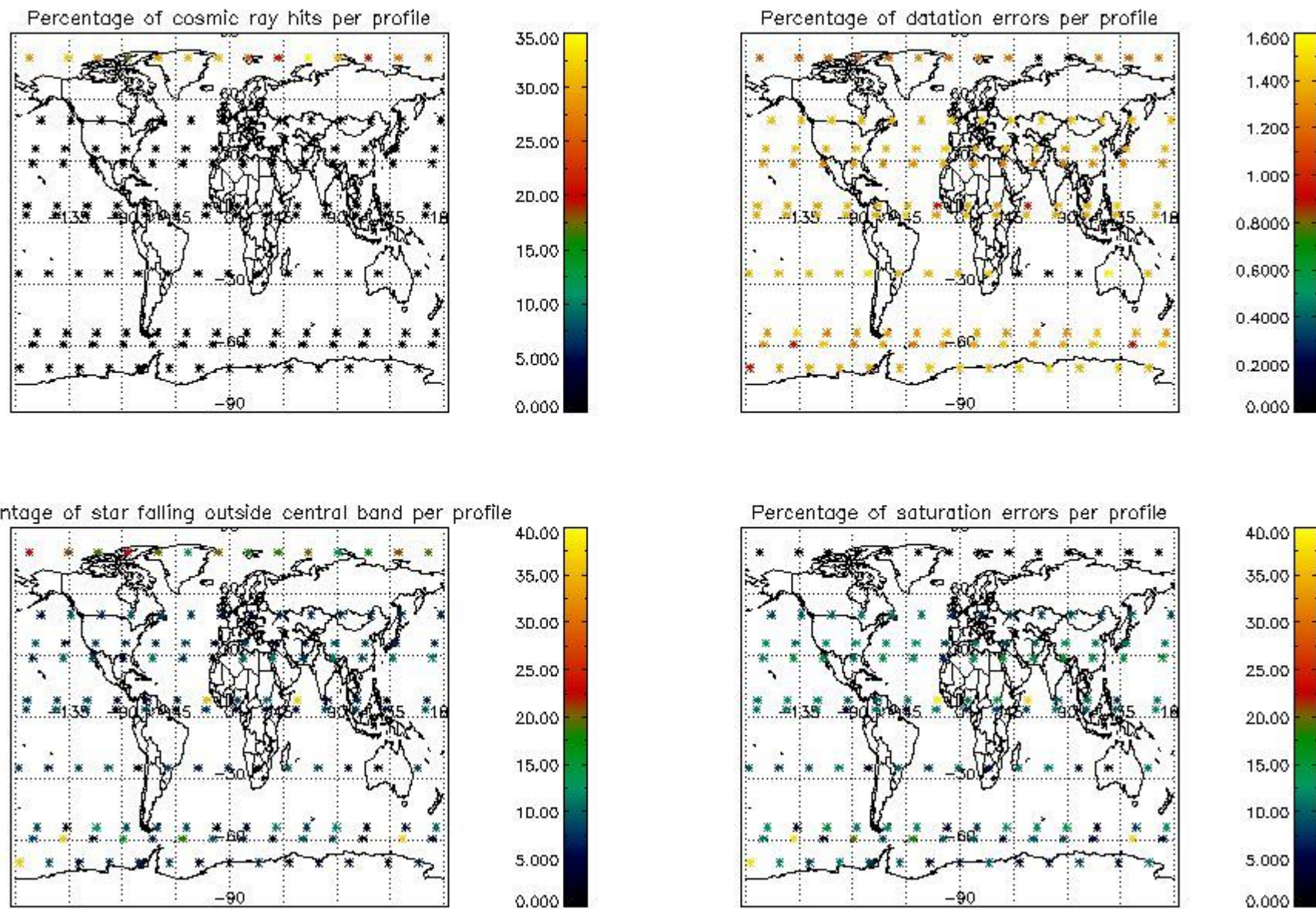
Percentage of star falling outside central band per profile



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

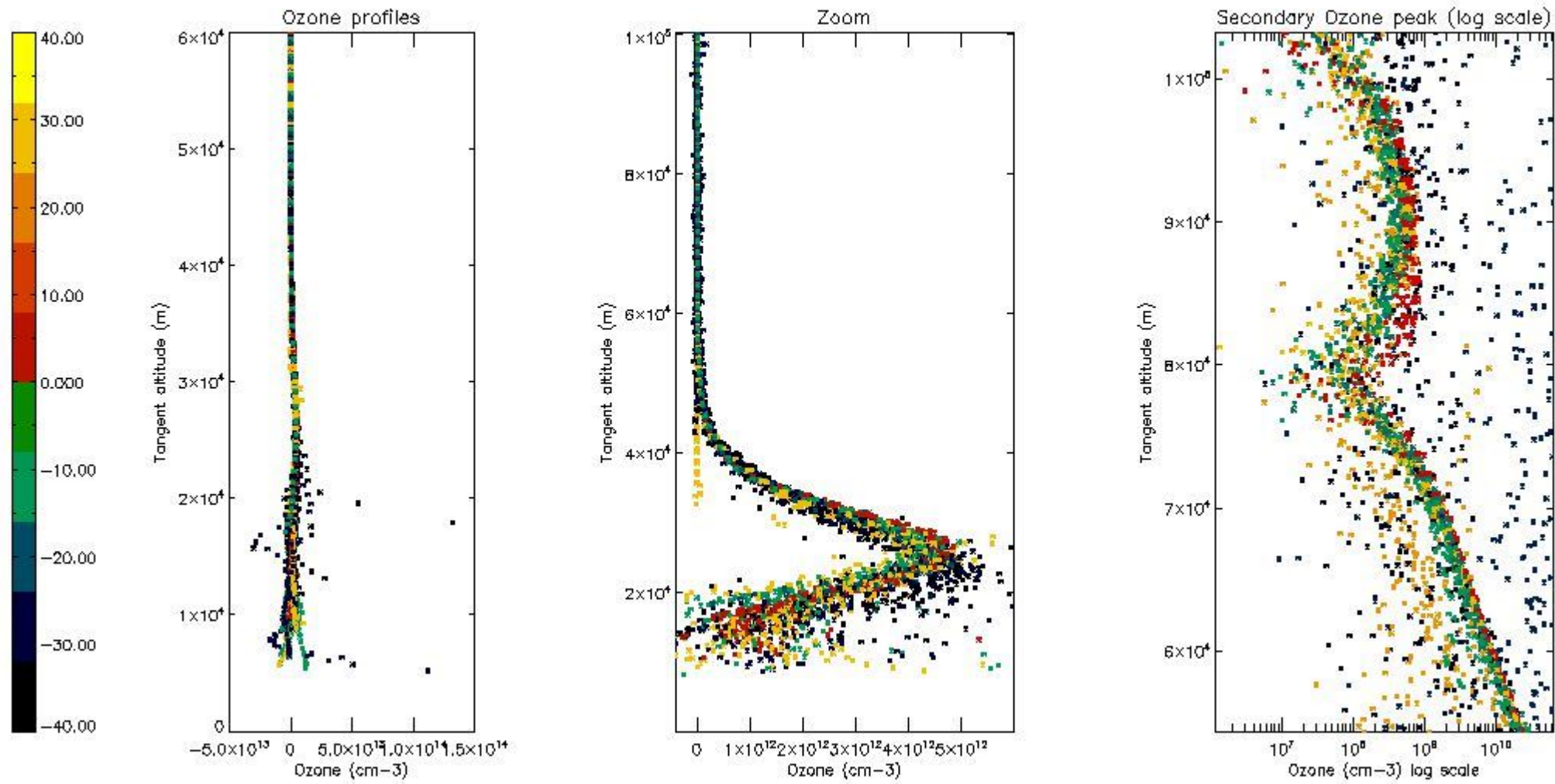
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	41
STD < 20	20

STD < 10	15
STD < 5	8

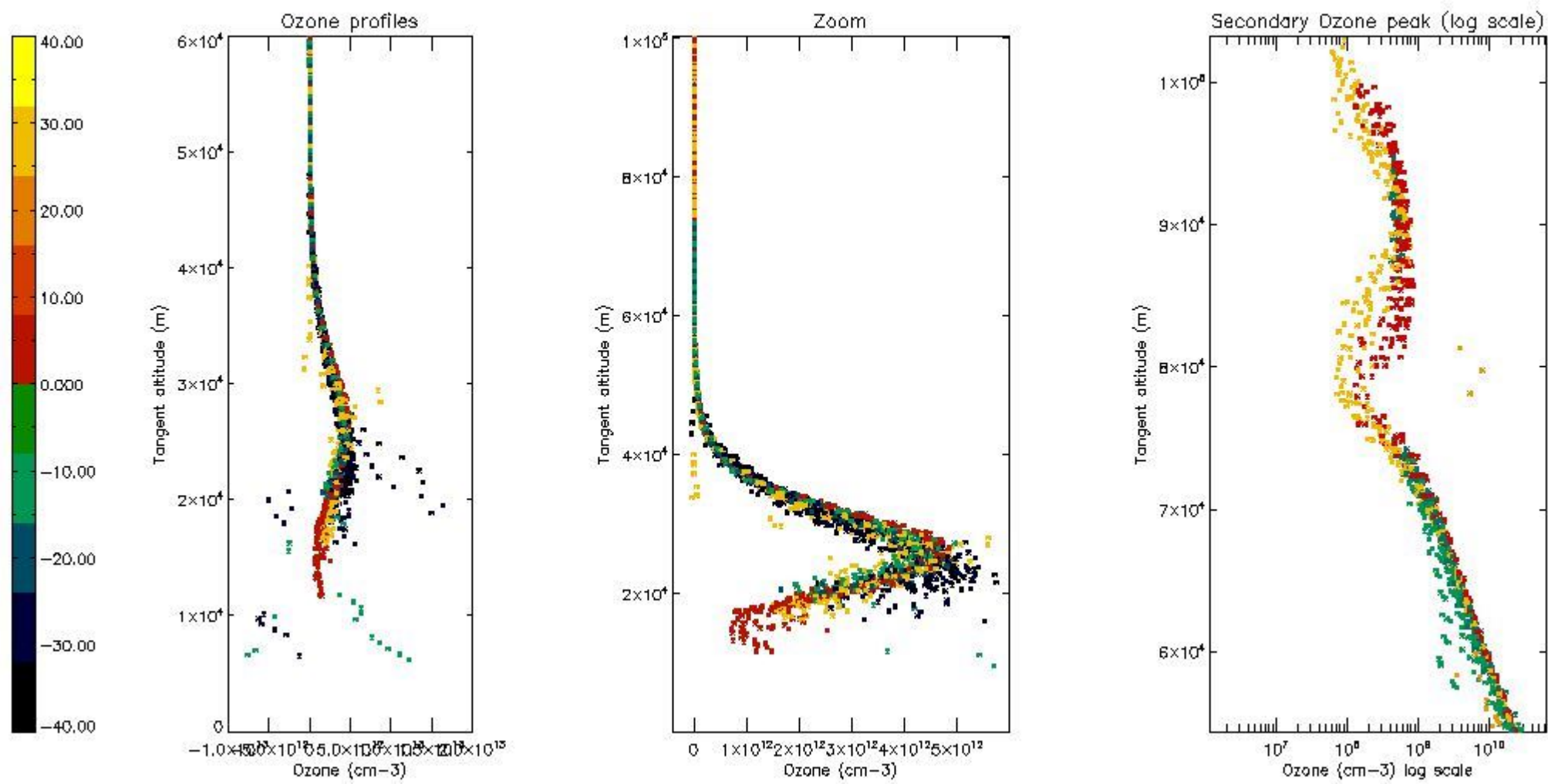
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



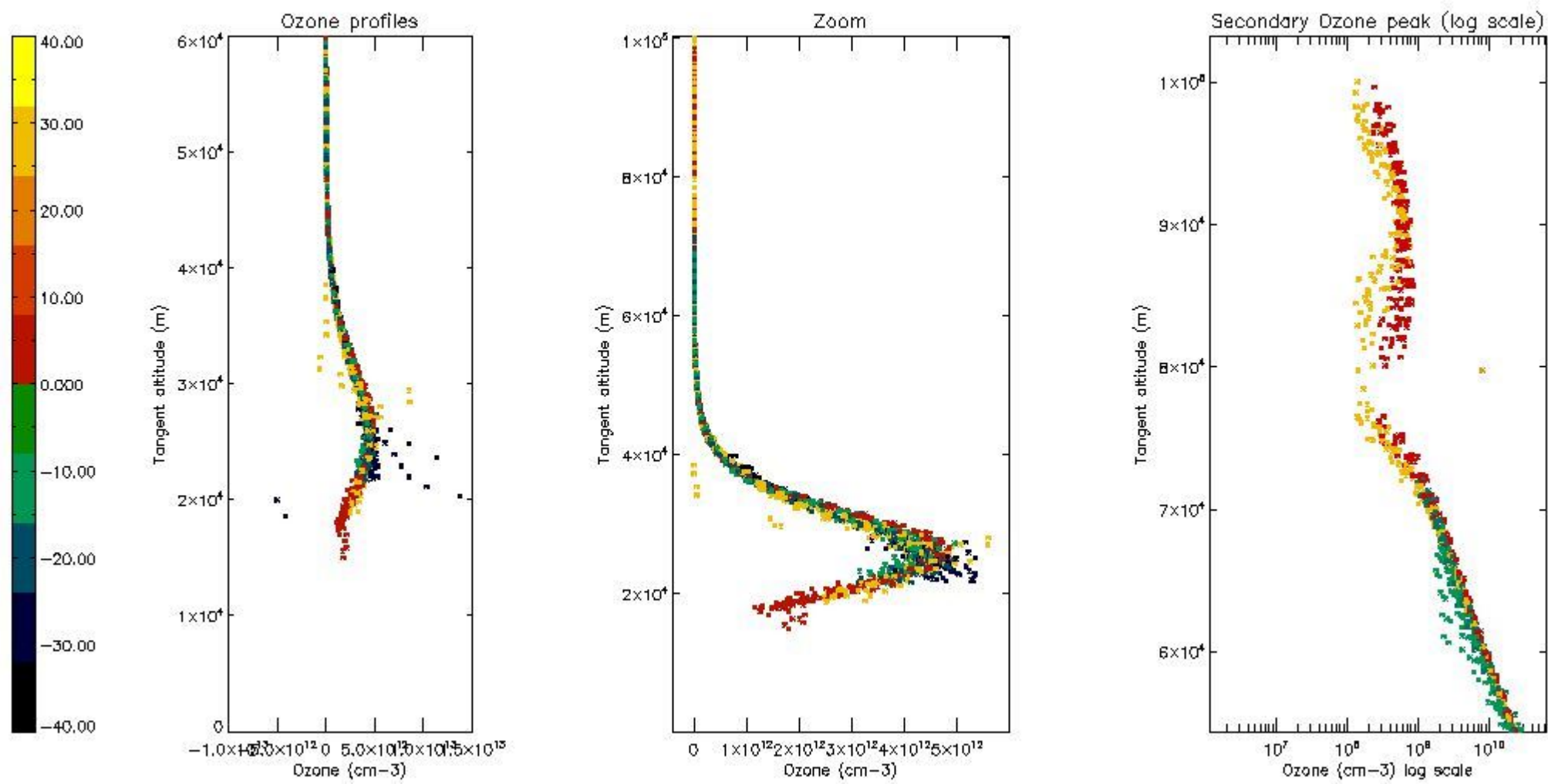
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



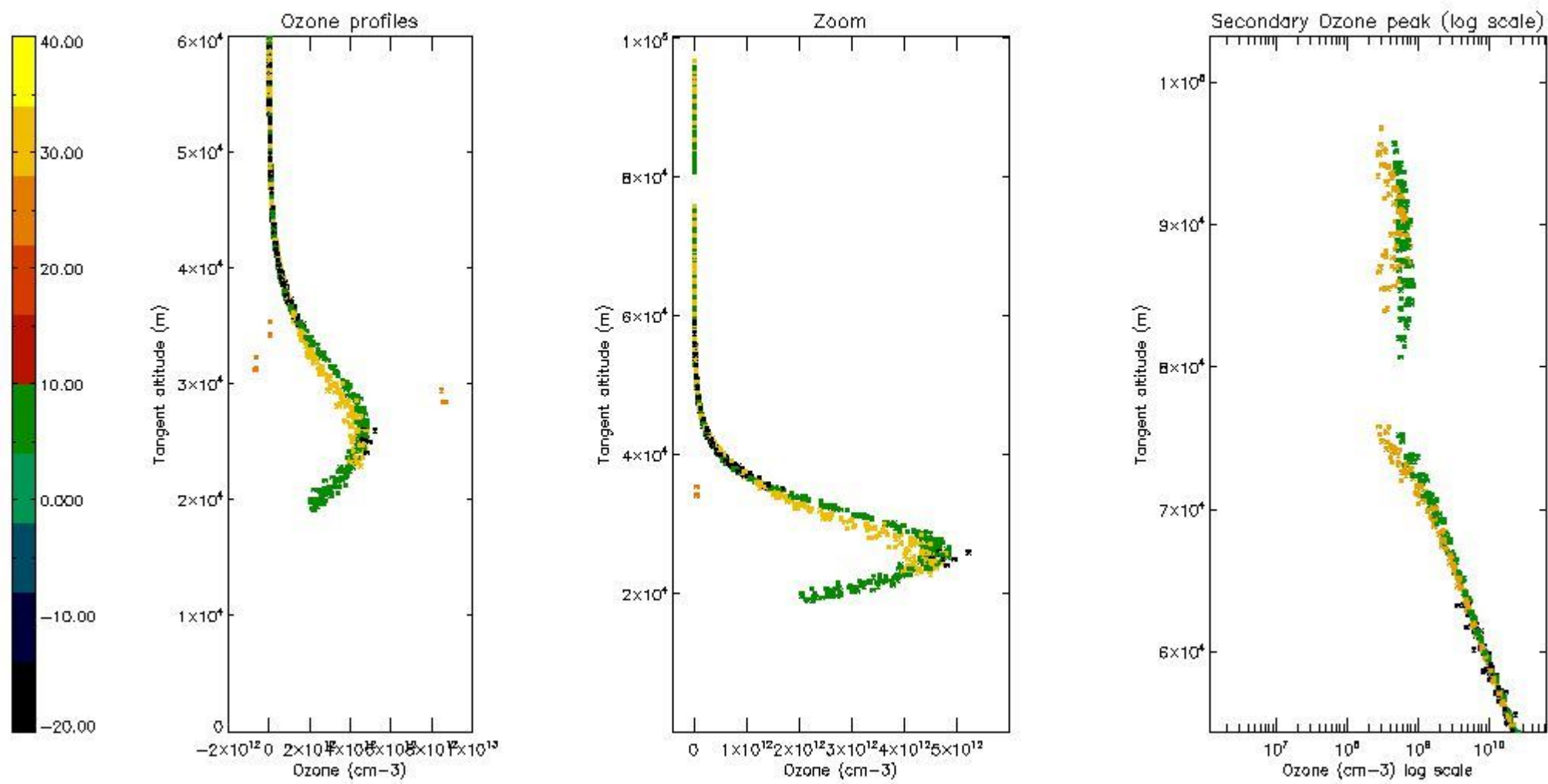
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



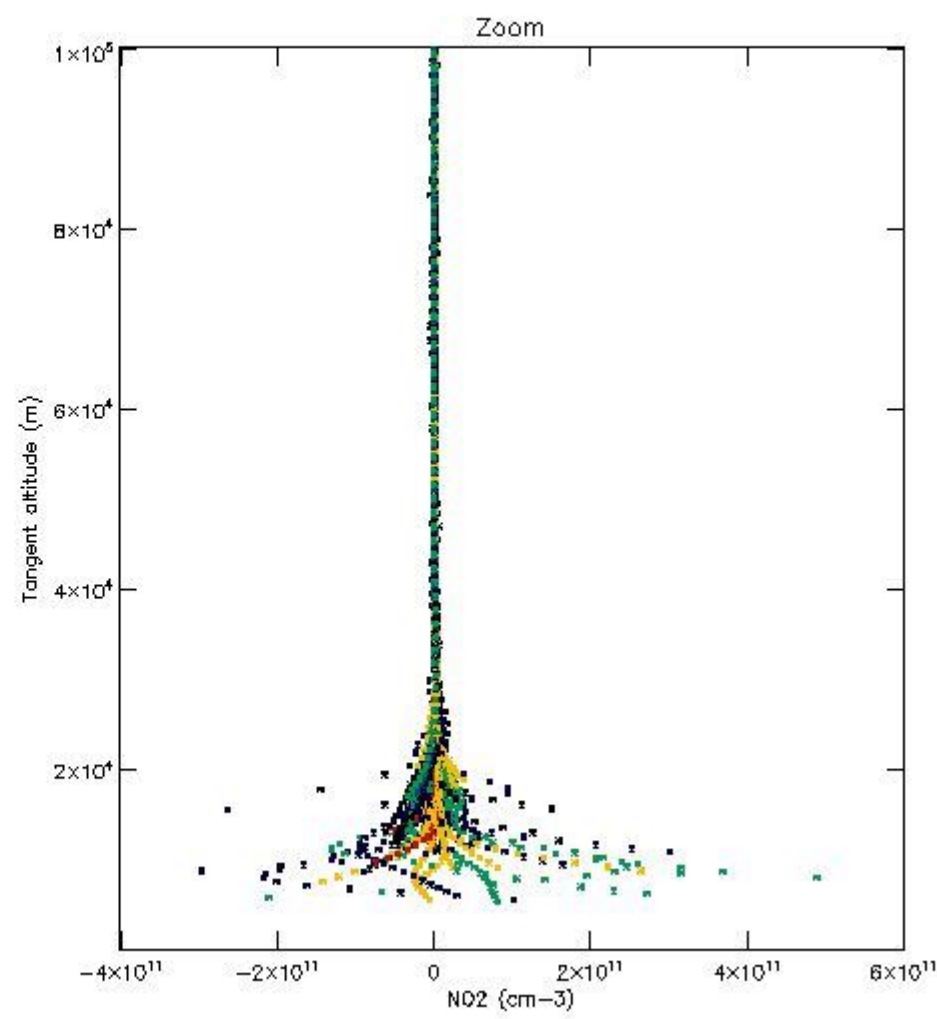
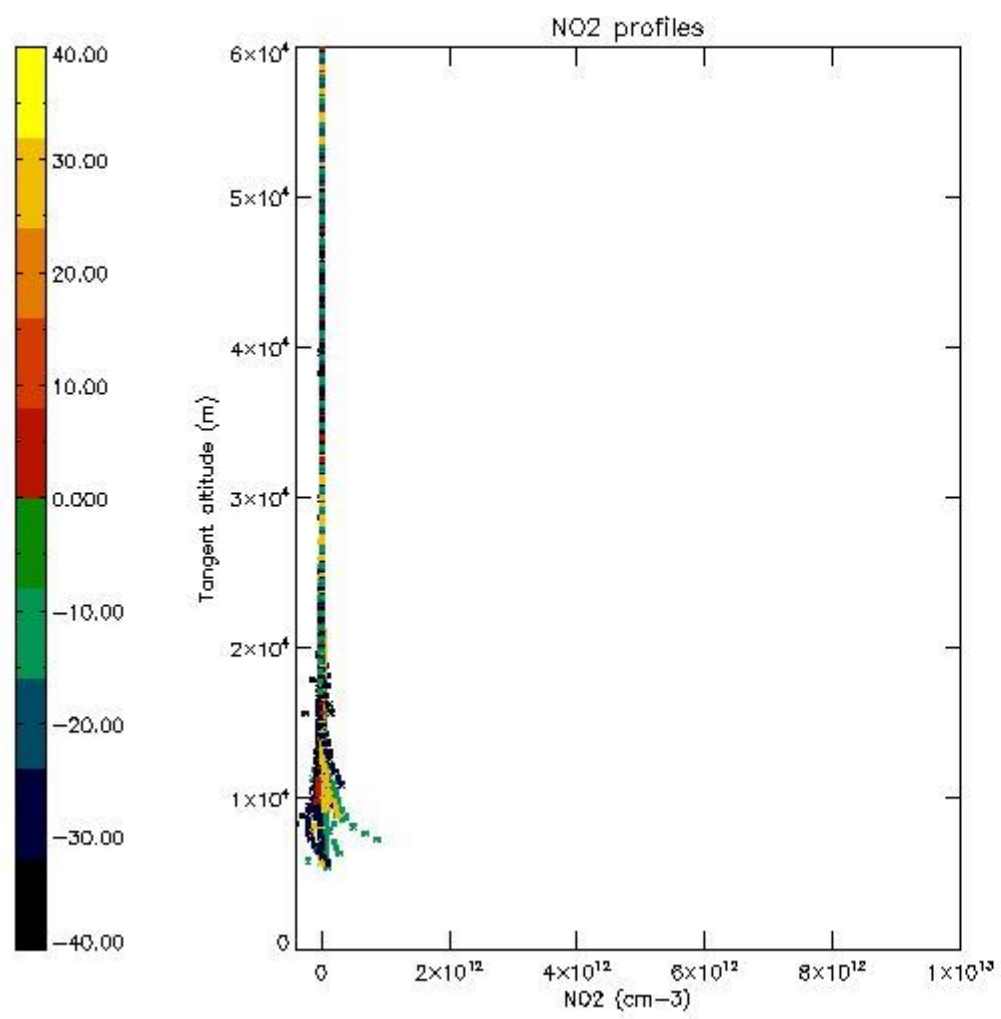
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



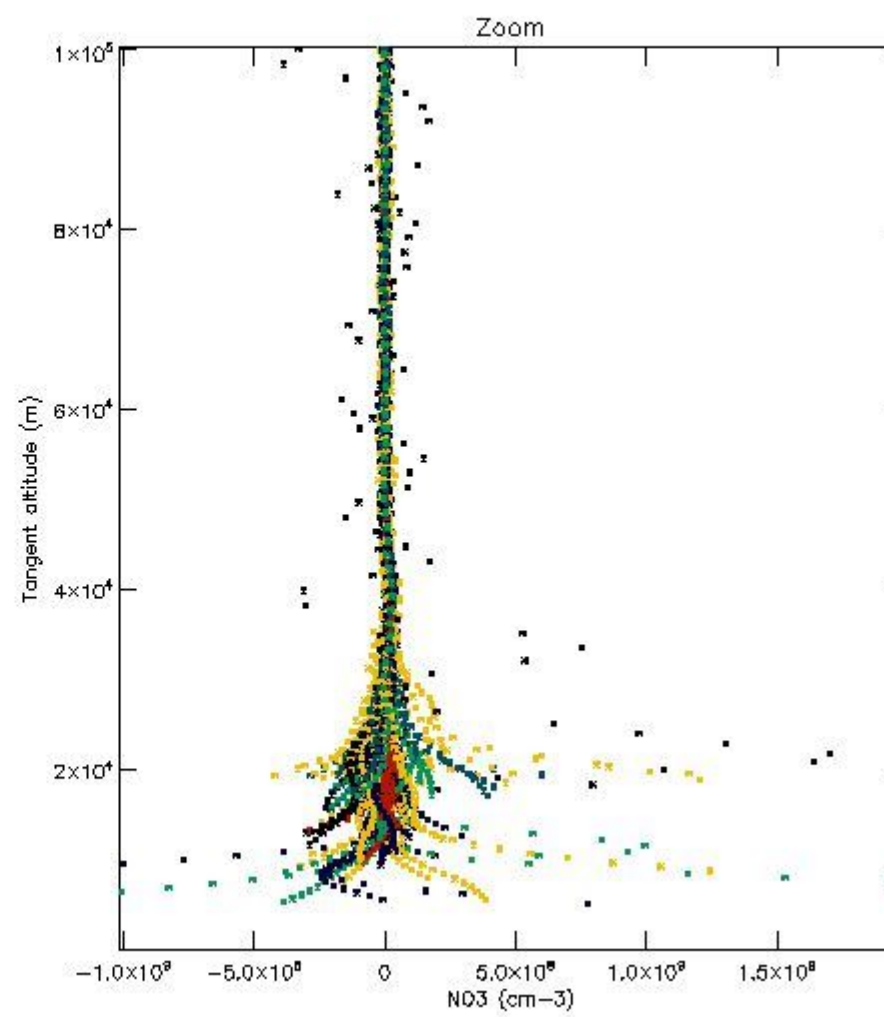
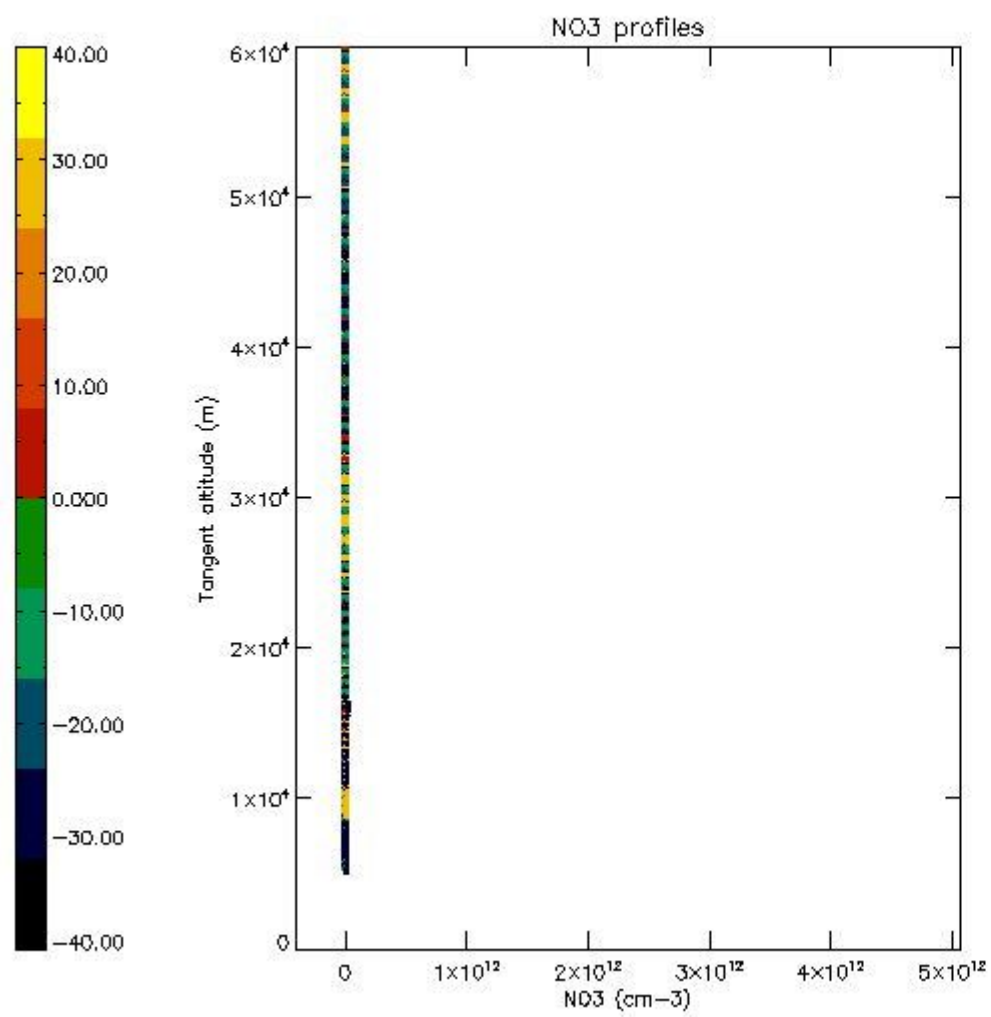
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



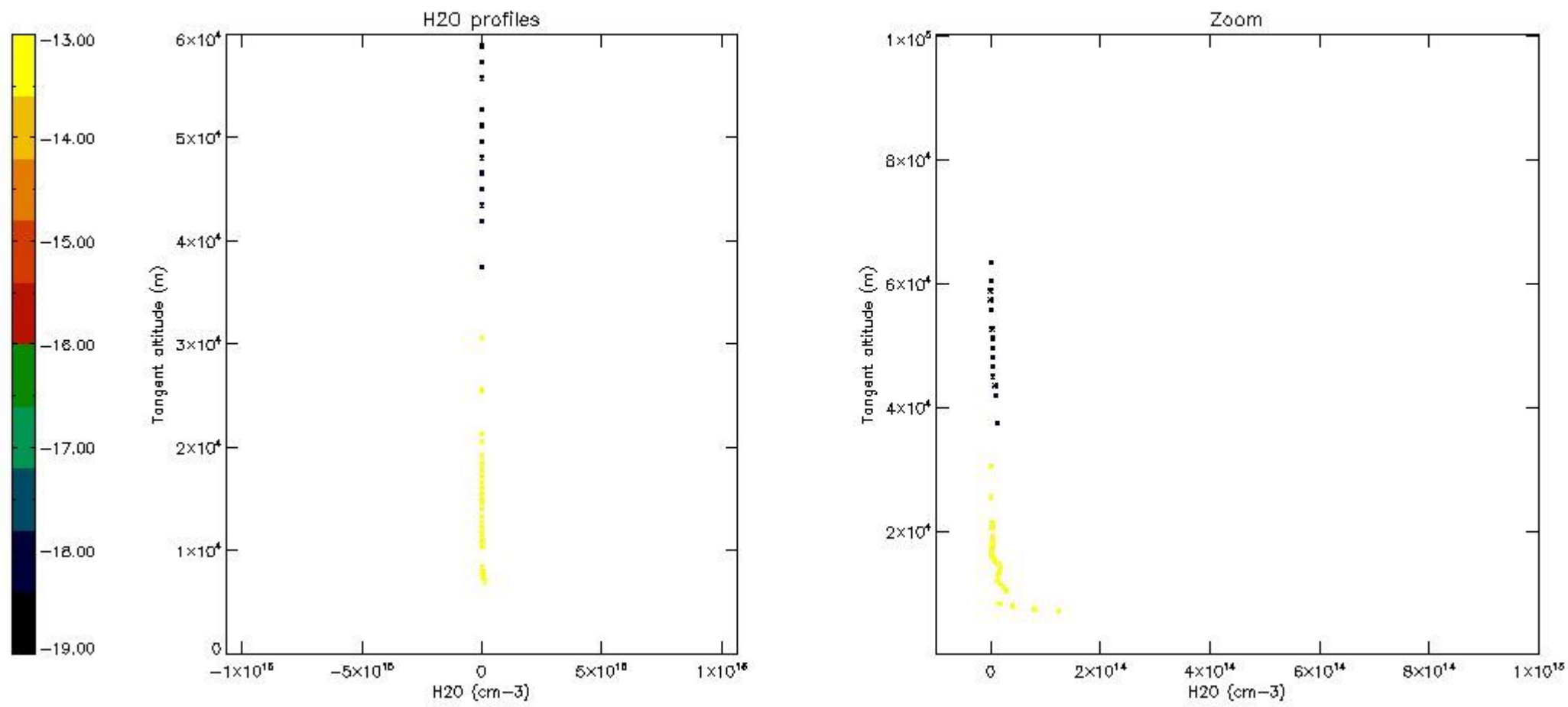
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

The colorbar represents the latitude.



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

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

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-OCT-2008 00:06:42
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-OCT-2008 00:06:42
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-OCT-2008 00:06:42

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

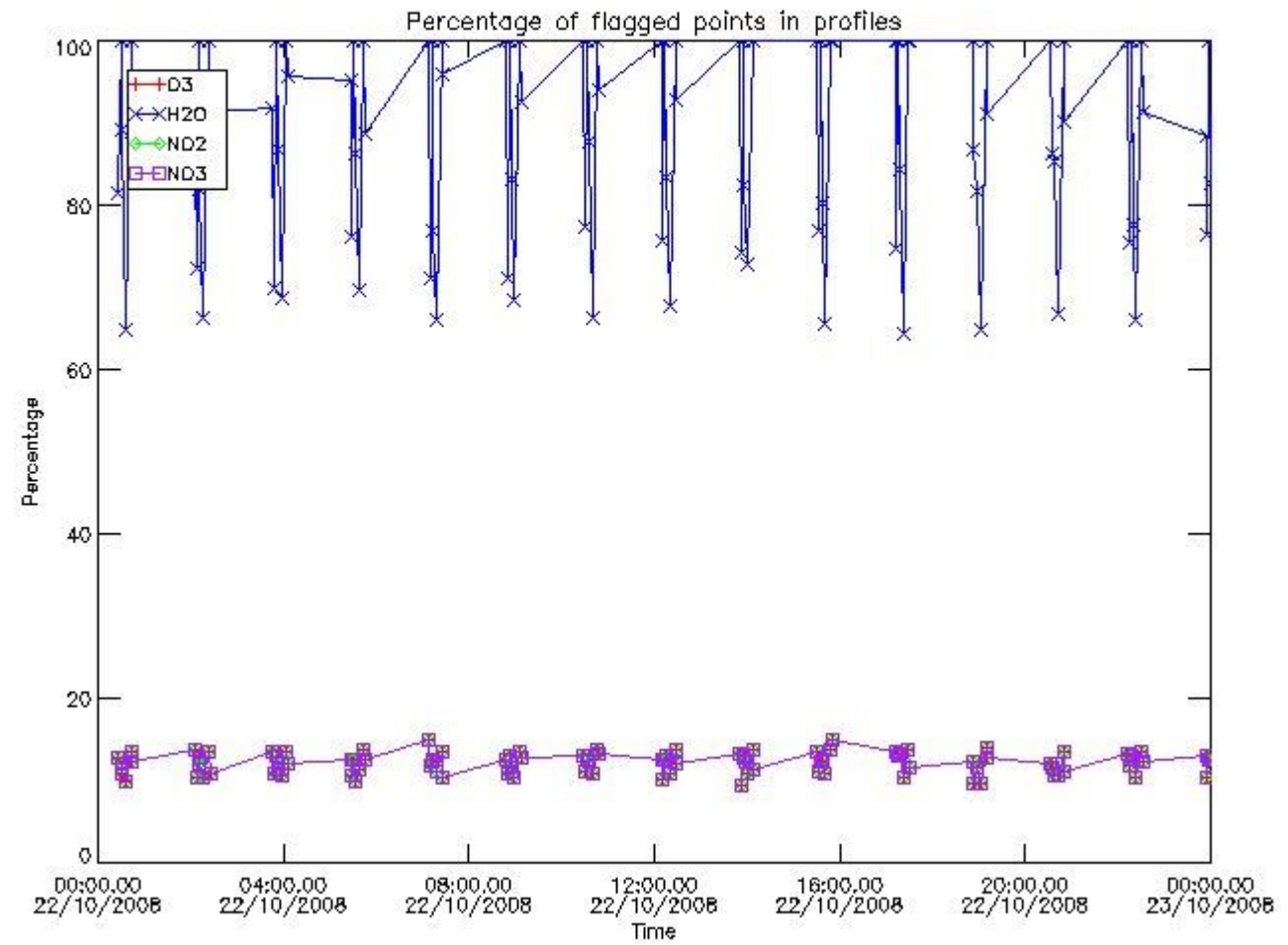
[6. Auxiliary Data Files used for the production reported in section 2](#)

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

Item	Value
Time of report generation	25APR2013 21:16:49
Data source version	GOMOS/6.01
Start time of products	22-10-2008 (22OCT2008 00:00:00)
Stop time of products	23-10-2008 (23OCT2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	268
Nb of prods with errors	0

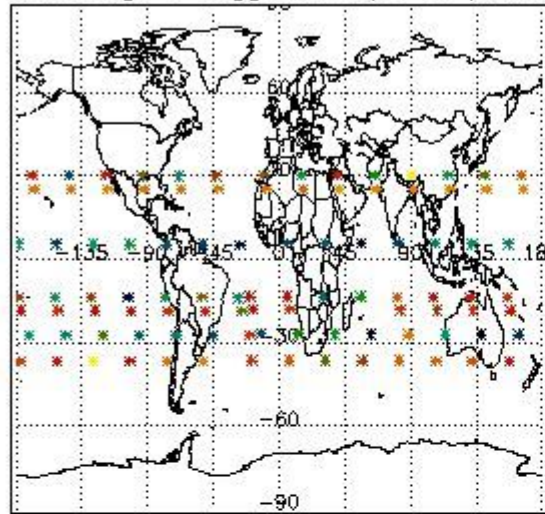
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20081022_000642_000000552073_00116_34739_5955.N1	22-OCT-2008 00:06:42	Bright	54.500	51	41Gam1Leo	2.0100	4500.0	109	34739	No
2	GOM_NL__2PRFIN20081022_002648_000000442073_00116_34739_5956.N1	22-OCT-2008 00:26:48	Dark	43.500	65	Lam Vel	2.2040	4400.0	87	34739	No
3	GOM_NL__2PRFIN20081022_002945_000000432073_00117_34740_5953.N1	22-OCT-2008 00:29:45	Dark	42.500	46	Del Vel	1.9540	10600.	85	34740	No
4	GOM_NL__2PRFIN20081022_003114_000000522073_00117_34740_5954.N1	22-OCT-2008 00:31:14	Dark	51.500	41	Eps Car	1.8600	4100.0	103	34740	No
5	GOM_NL__2PRFIN20081022_003550_000000522073_00117_34740_5955.N1	22-OCT-2008 00:35:50	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	34740	No
6	GOM_NL__2PRFIN20081022_004246_000000382073_00117_34740_5956.N1	22-OCT-2008 00:42:46	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	34740	No
7	GOM_NL__2PRFIN20081022_004411_000000422073_00117_34740_5957.N1	22-OCT-2008 00:44:11	Dark	41.500	9	Alp Eri	0.45300	24000.	83	34740	No
8	GOM_NL__2PRFIN20081022_004705_000000442073_00117_34740_5958.N1	22-OCT-2008 00:47:05	Straylight	44.000	157	The1Eri	2.9060	9300.0	88	34740	No
9	GOM_NL__2PRFIN20081022_005538_000000442073_00117_34740_5959.N1	22-OCT-2008 00:55:38	Straylight	44.000	52	16Bet Cet	2.0370	4500.0	88	34740	No
10	GOM_NL__2PRFIN20081022_010509_000000362073_00117_34740_5960.N1	22-OCT-2008 01:05:09	Bright	35.500	140	88Gam Peg	2.8340	26000.	71	34740	No
11	GOM_NL__2PRFIN20081022_010903_000000362073_00117_34740_5961.N1	22-OCT-2008 01:09:03	Bright	36.000	58	21Alp And	2.0730	11000.	72	34740	No
12	GOM_NL__2PRFIN20081022_011107_000000402073_00117_34740_5962.N1	22-OCT-2008 01:11:07	Bright	40.000	53	43Bet And	2.0480	3300.0	80	34740	No
13	GOM_NL__2PRFIN20081022_011650_000000352073_00117_34740_5963.N1	22-OCT-2008 01:16:50	Bright	34.500	68	18Alp Cas	2.2250	4500.0	69	34740	No
14	GOM_NL__2PRFIN20081022_011808_000000372073_00117_34740_5964.N1	22-OCT-2008 01:18:08	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	34740	No
15	GOM_NL__2PRFIN20081022_012602_000000322073_00117_34740_5965.N1	22-OCT-2008 01:26:02	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	34740	No
16	GOM_NL__2PRFIN20081022_013417_000000352073_00117_34740_5966.N1	22-OCT-2008 01:34:17	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	34740	No
17	GOM_NL__2PRFIN20081022_013551_000000352073_00117_34740_5967.N1	22-OCT-2008 01:35:51	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	34740	No
18	GOM_NL__2PRFIN20081022_013921_000000362073_00117_34740_5968.N1	22-OCT-2008 01:39:21	Bright	36.000	174	52Psi UMa	3.0040	4400.0	72	34740	No
19	GOM_NL__2PRFIN20081022_014718_000000582073_00117_34740_5969.N1	22-OCT-2008 01:47:18	Bright	57.500	51	41Gam1Leo	2.0100	4500.0	115	34740	No
20	GOM_NL__2PRFIN20081022_020553_000000372073_00117_34740_5970.N1	22-OCT-2008 02:05:53	Dark	37.000	113	Mu Vel	2.6920	5000.0	74	34740	No
21	GOM_NL__2PRFIN20081022_020725_000000492073_00117_34740_5971.N1	22-OCT-2008 02:07:25	Dark	49.000	65	Lam Vel	2.2040	4400.0	98	34740	No
22	GOM_NL__2PRFIN20081022_021022_000000402073_00118_34741_5969.N1	22-OCT-2008 02:10:22	Dark	40.000	46	Del Vel	1.9540	10600.	80	34741	No
23	GOM_NL__2PRFIN20081022_021151_000000422073_00118_34741_5970.N1	22-OCT-2008 02:11:51	Dark	42.000	41	Eps Car	1.8600	4100.0	84	34741	No
24	GOM_NL__2PRFIN20081022_021627_000000502073_00118_34741_5971.N1	22-OCT-2008 02:16:27	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	34741	No
25	GOM_NL__2PRFIN20081022_022322_000000382073_00118_34741_5972.N1	22-OCT-2008 02:23:22	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	34741	No
26	GOM_NL__2PRFIN20081022_022447_000000472073_00118_34741_5973.N1	22-OCT-2008 02:24:47	Dark	47.000	9	Alp Eri	0.45300	24000.	94	34741	No
27	GOM_NL__2PRFIN20081022_022741_000000432073_00118_34741_5974.N1	22-OCT-2008 02:27:41	Straylight	43.000	157	The1Eri	2.9060	9300.0	86	34741	No
28	GOM_NL__2PRFIN20081022_023614_000000422073_00118_34741_5975.N1	22-OCT-2008 02:36:14	Straylight	42.000	52	16Bet Cet	2.0370	4500.0	84	34741	No
29	GOM_NL__2PRFIN20081022_024545_000000362073_00118_34741_5976.N1	22-OCT-2008 02:45:45	Bright	35.500	140	88Gam Peg	2.8340	26000.	71	34741	No
30	GOM_NL__2PRFIN20081022_024939_000000362073_00118_34741_5977.N1	22-OCT-2008 02:49:39	Bright	36.000	58	21Alp And	2.0730	11000.	72	34741	No
31	GOM_NL__2PRFIN20081022_025143_000000402073_00118_34741_5978.N1	22-OCT-2008 02:51:43	Bright	39.500	53	43Bet And	2.0480	3300.0	79	34741	No
32	GOM_NL__2PRFIN20081022_025726_000000372073_00118_34741_5979.N1	22-OCT-2008 02:57:26	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	34741	No
33	GOM_NL__2PRFIN20081022_025844_000000372073_00118_34741_5980.N1	22-OCT-2008 02:58:44	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	34741	No
34	GOM_NL__2PRFIN20081022_030638_000000342073_00118_34741_5981.N1	22-OCT-2008 03:06:38	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	34741	No
35	GOM_NL__2PRFIN20081022_031453_000000392073_00118_34741_5982.N1	22-OCT-2008 03:14:53	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	34741	No
36	GOM_NL__2PRFIN20081022_031627_000000372073_00118_34741_5983.N1	22-OCT-2008 03:16:27	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	34741	No
37	GOM_NL__2PRFIN20081022_031957_000000352073_00118_34741_5984.N1	22-OCT-2008 03:19:57	Bright	34.500	174	52Psi UMa	3.0040	4400.0	69	34741	No
38	GOM_NL__2PRFIN20081022_032755_000000602073_00118_34741_5985.N1	22-OCT-2008 03:27:55	Bright	60.000	51	41Gam1Leo	2.0100	4500.0	120	34741	No
39	GOM_NL__2PRFIN20081022_034629_000000382073_00118_34741_5986.N1	22-OCT-2008 03:46:29	Dark	37.500	113	Mu Vel	2.6920	5000.0	75	34741	No
40	GOM_NL__2PRFIN20081022_034801_000000472073_00118_34741_5987.N1	22-OCT-2008 03:48:01	Dark	47.000	65	Lam Vel	2.2040	4400.0	94	34741	No
41	GOM_NL__2PRFIN20081022_035058_000000402073_00119_34742_5979.N1	22-OCT-2008 03:50:58	Dark	39.500	46	Del Vel	1.9540	10600.	79	34742	No
42	GOM_NL__2PRFIN20081022_035227_000000502073_00119_34742_5980.N1	22-OCT-2008 03:52:27	Dark	49.500	41	Eps Car	1.8600	4100.0	99	34742	No

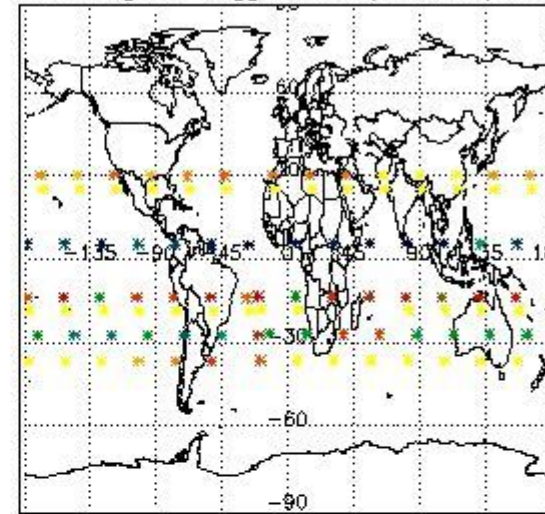


3.2 Plot quality information per product (world map)

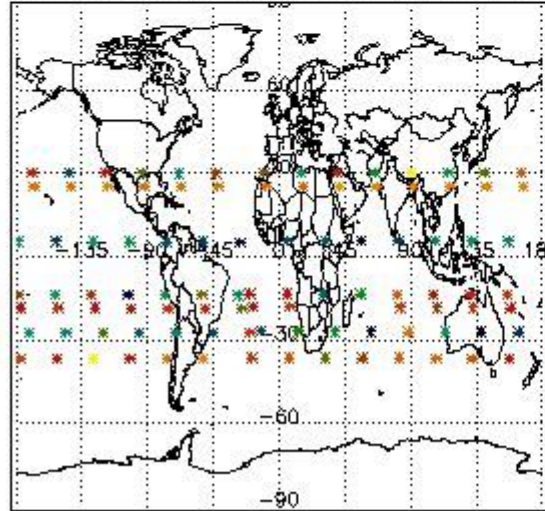
Percentage of flagged data per O3 profile



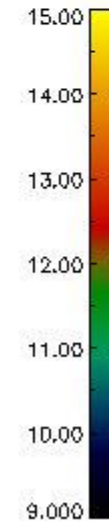
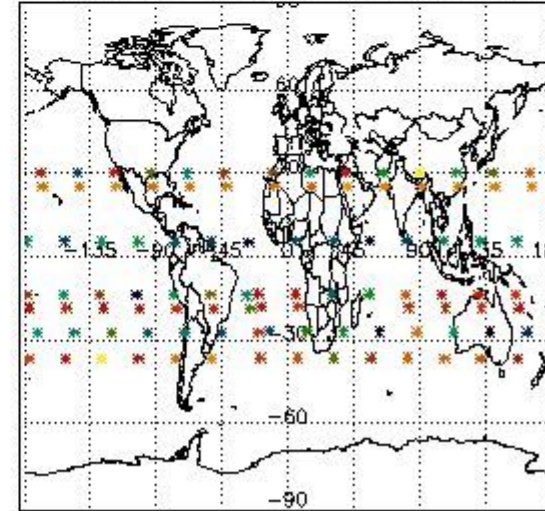
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

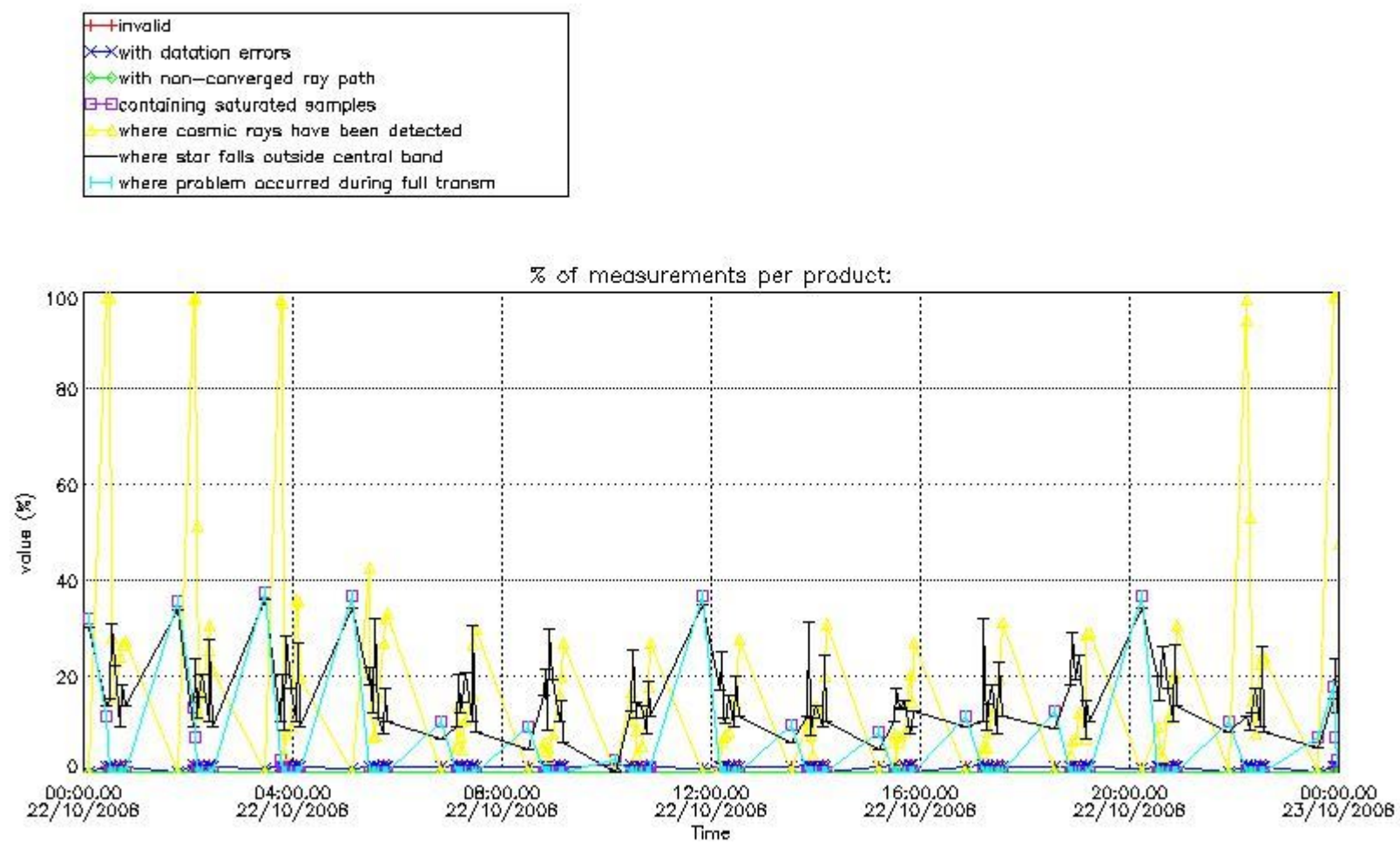


4. Level 1 quality information per product

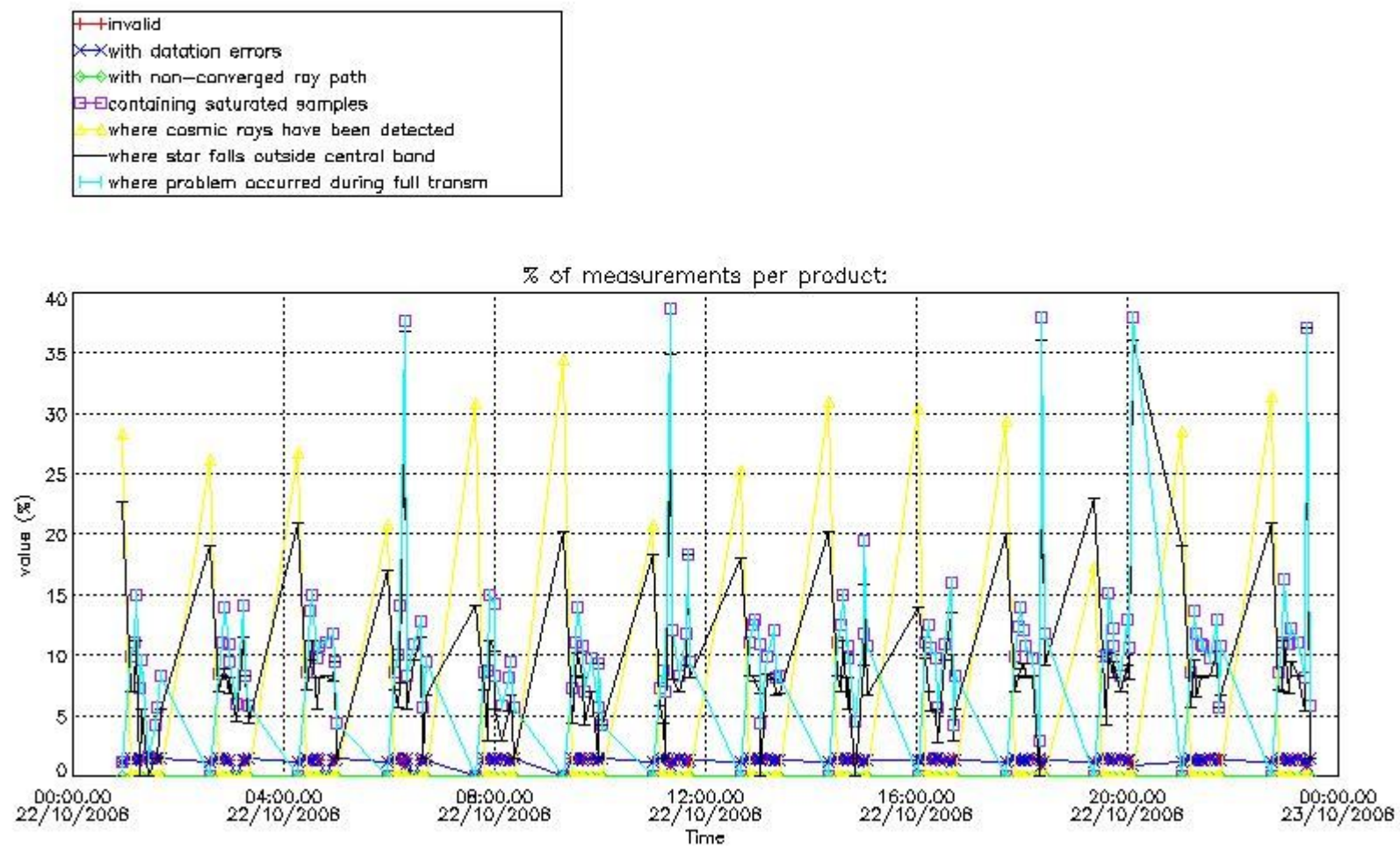
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



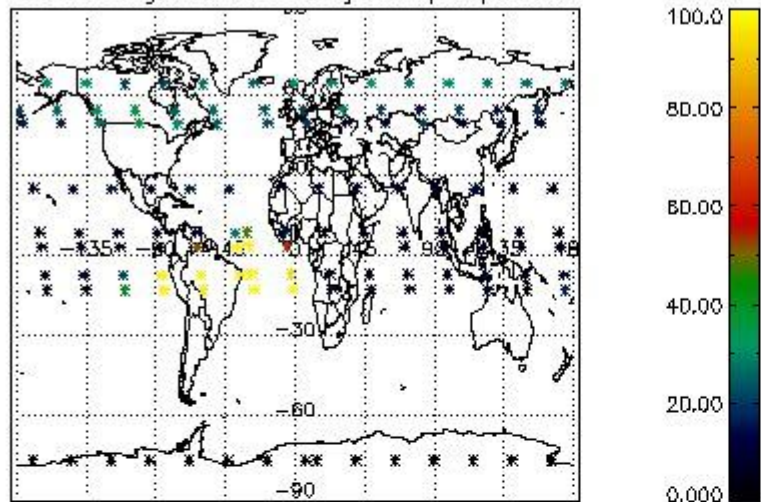
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



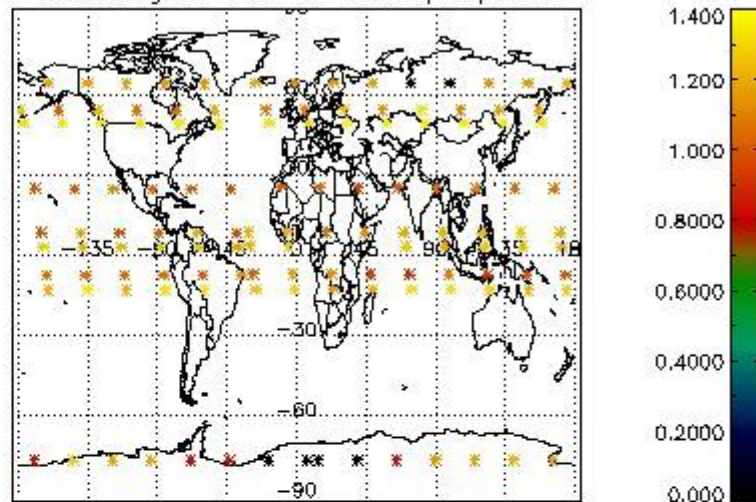
4.2 Plot quality information per product coming from level 1b processing (world map)

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

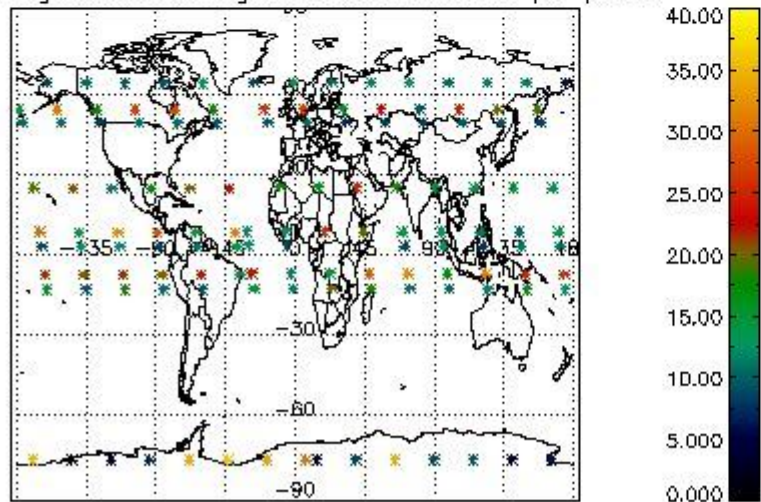
Percentage of cosmic ray hits per profile



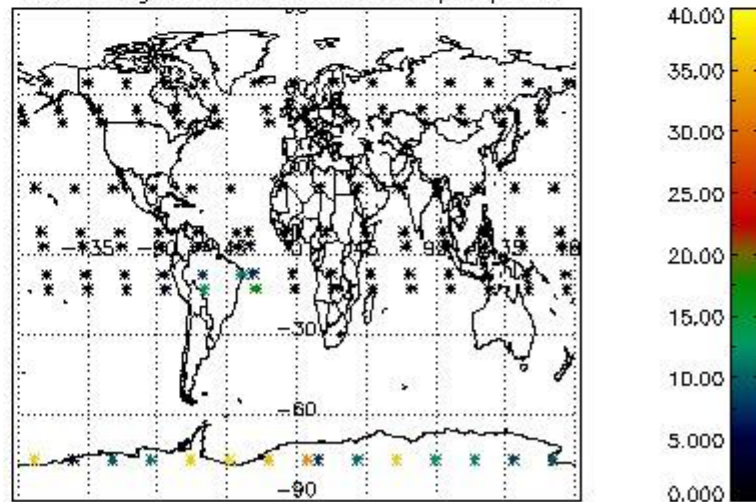
Percentage of datation errors per profile



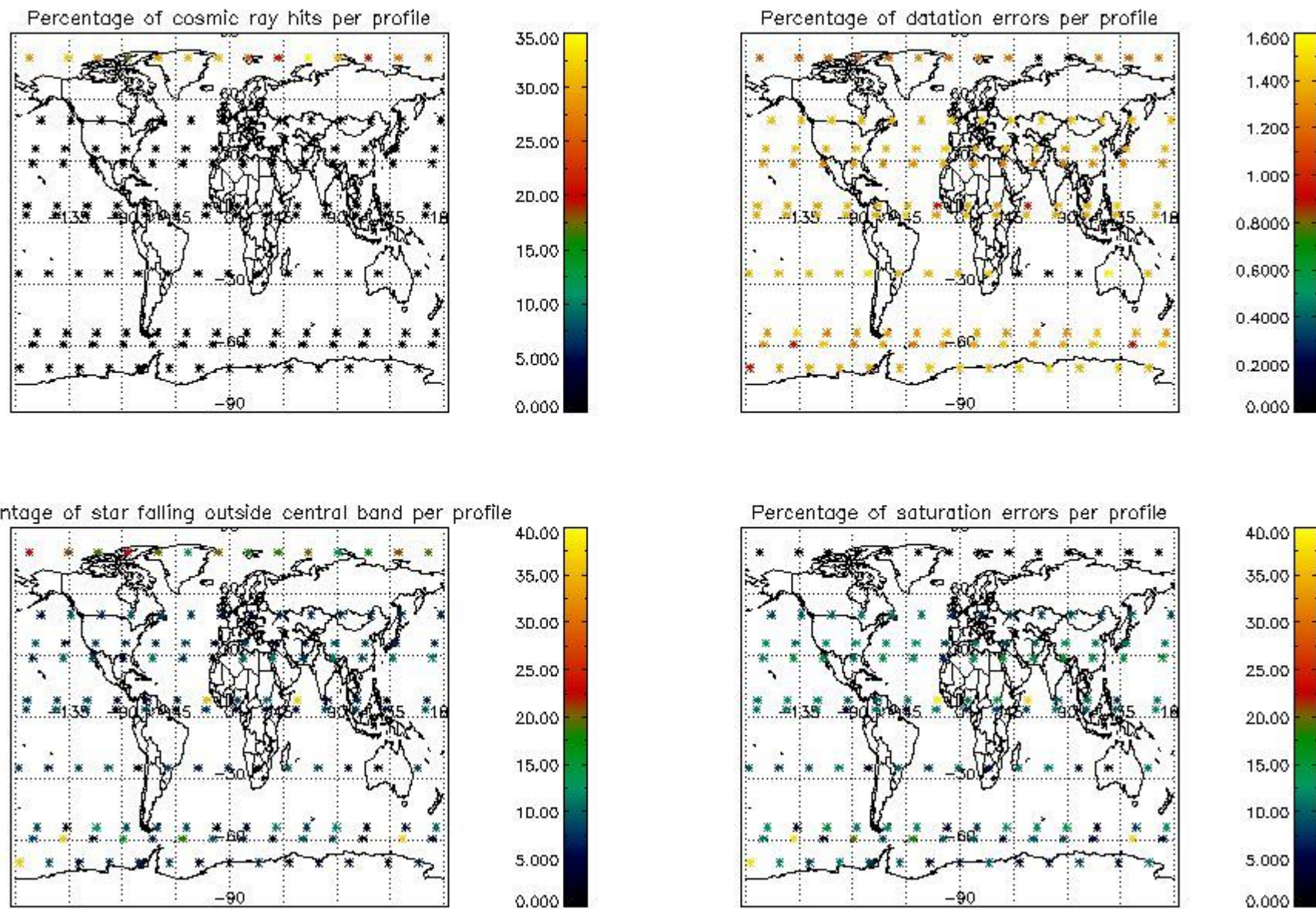
Percentage of star falling outside central band per profile



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

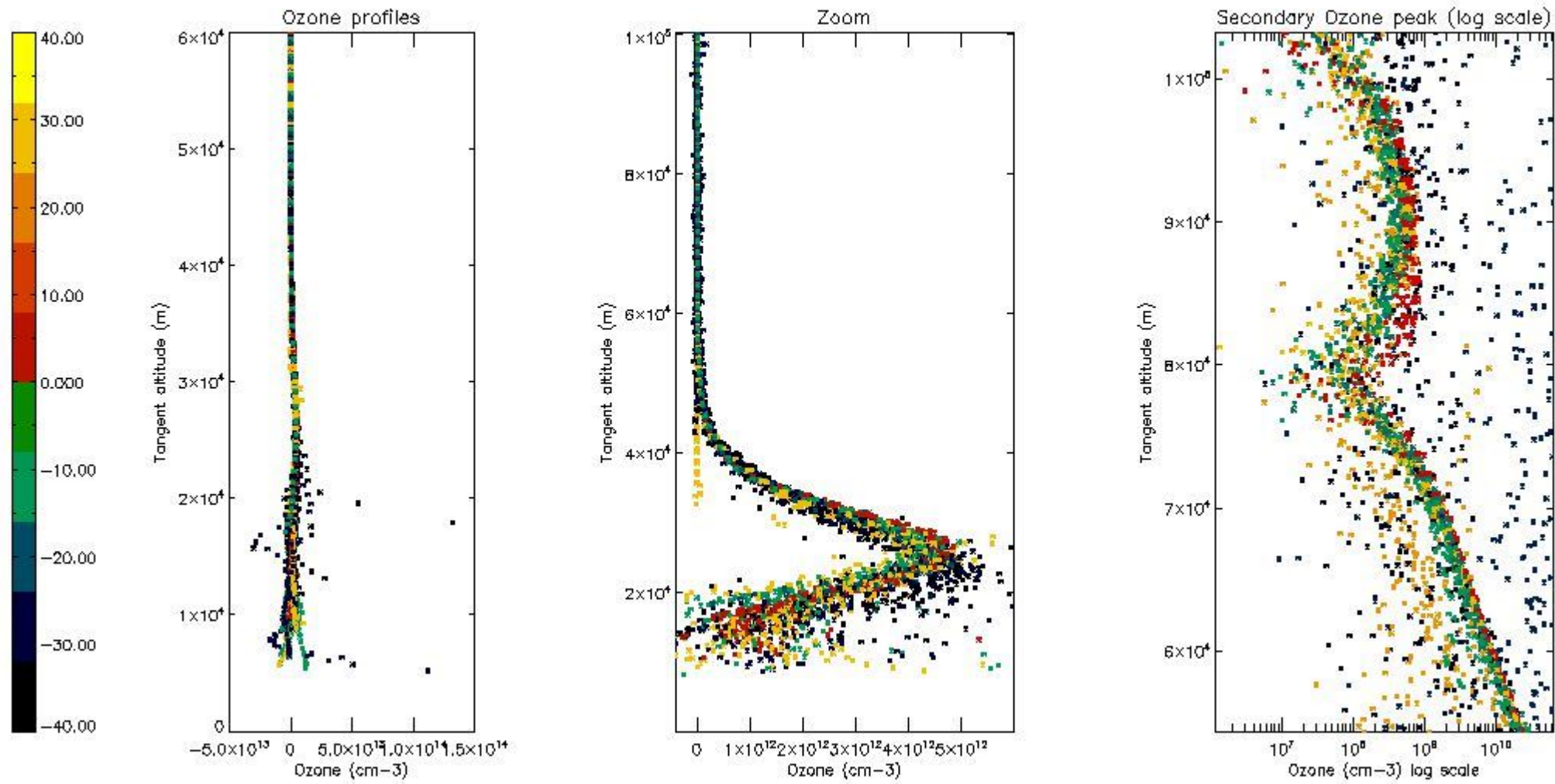
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	41
STD < 20	20

STD < 10	15
STD < 5	8

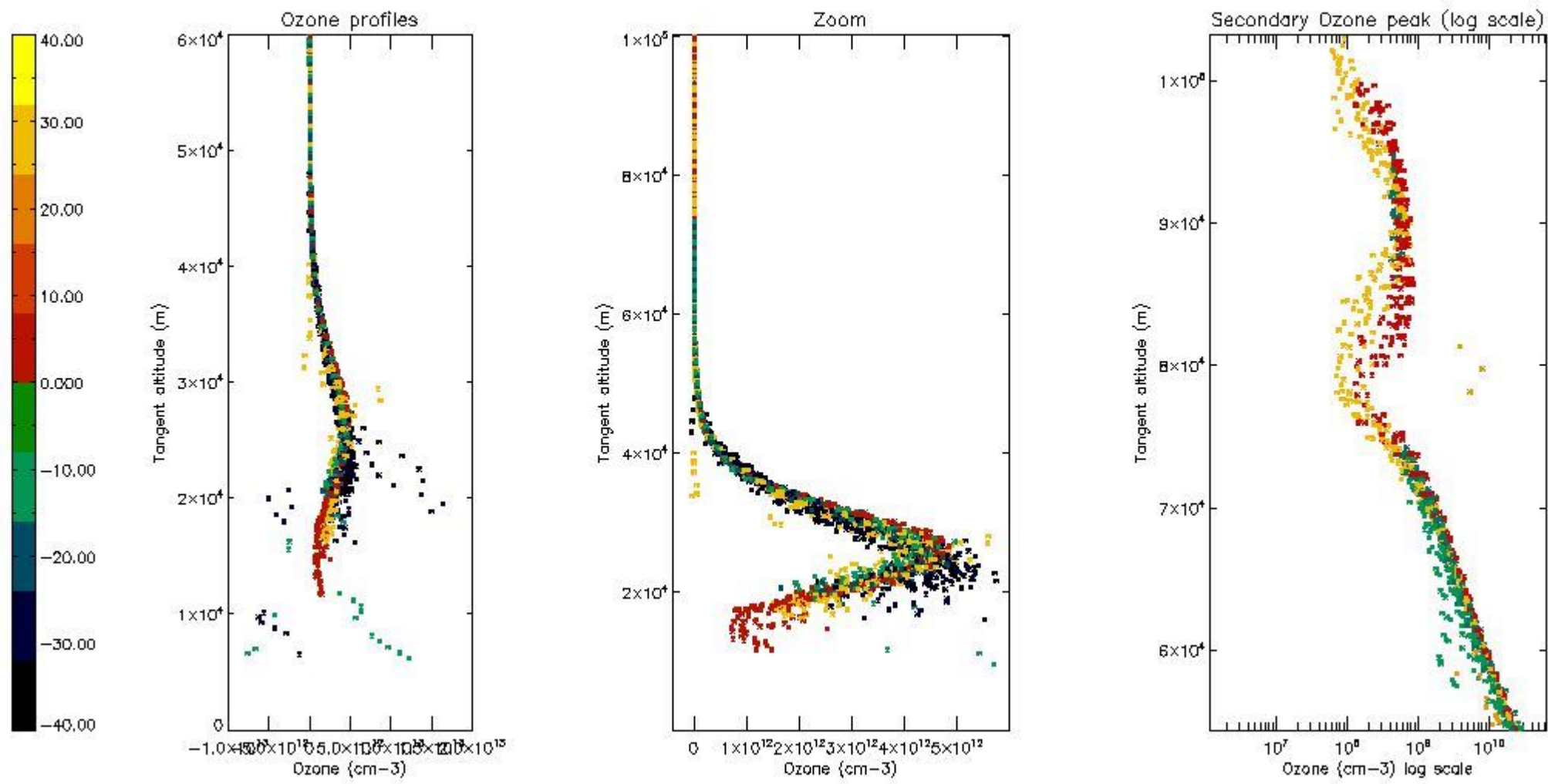
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



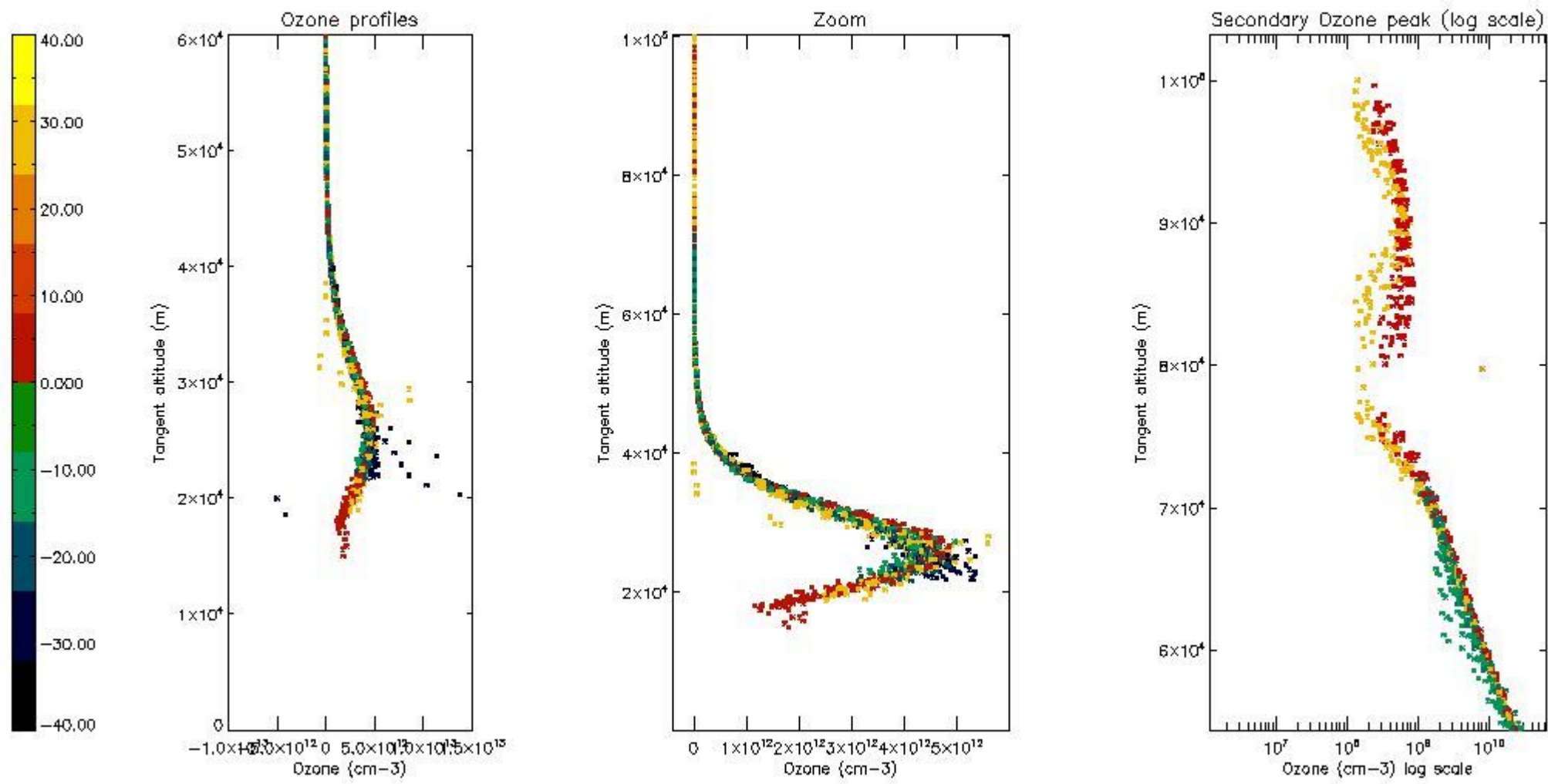
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



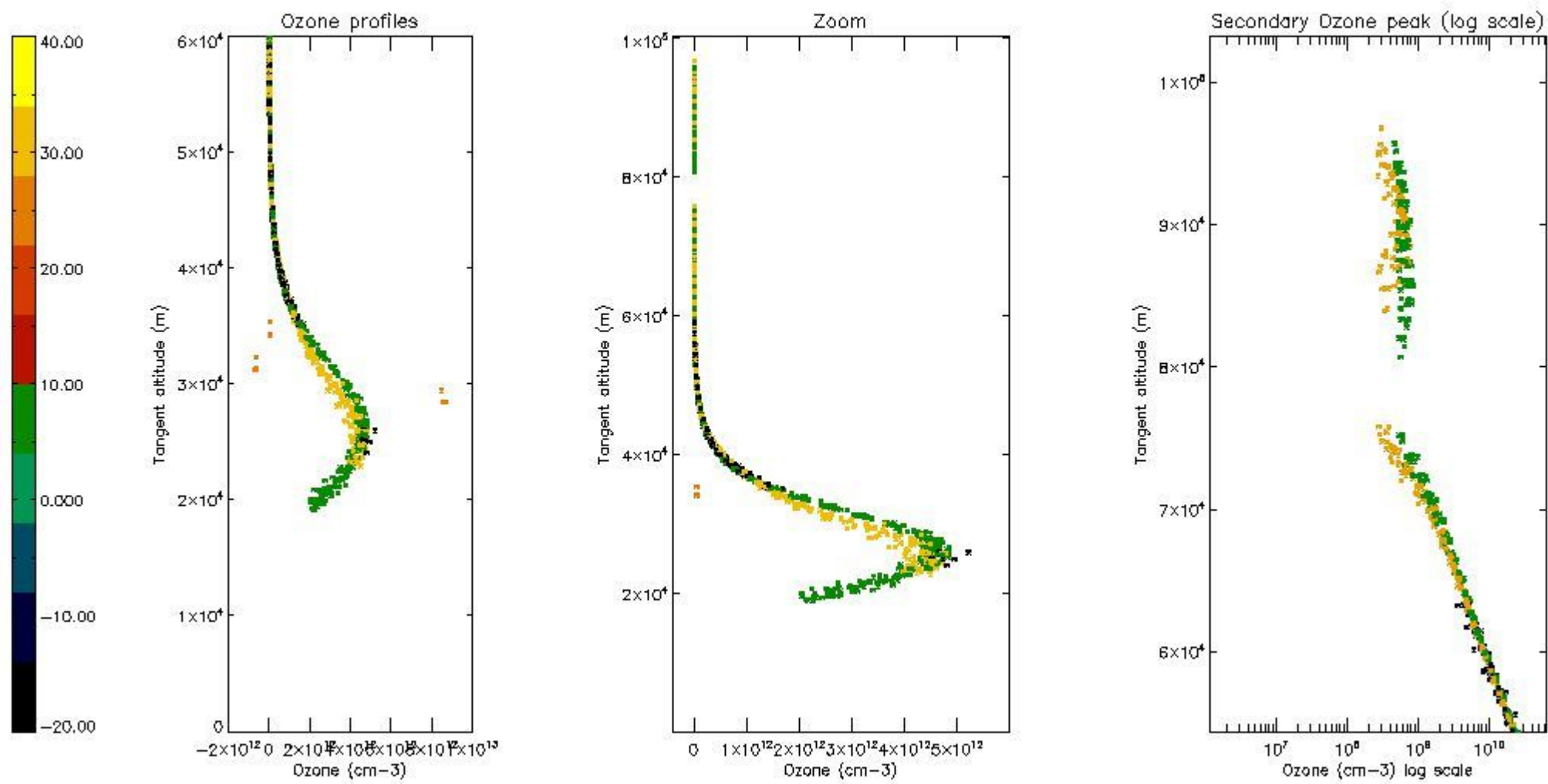
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



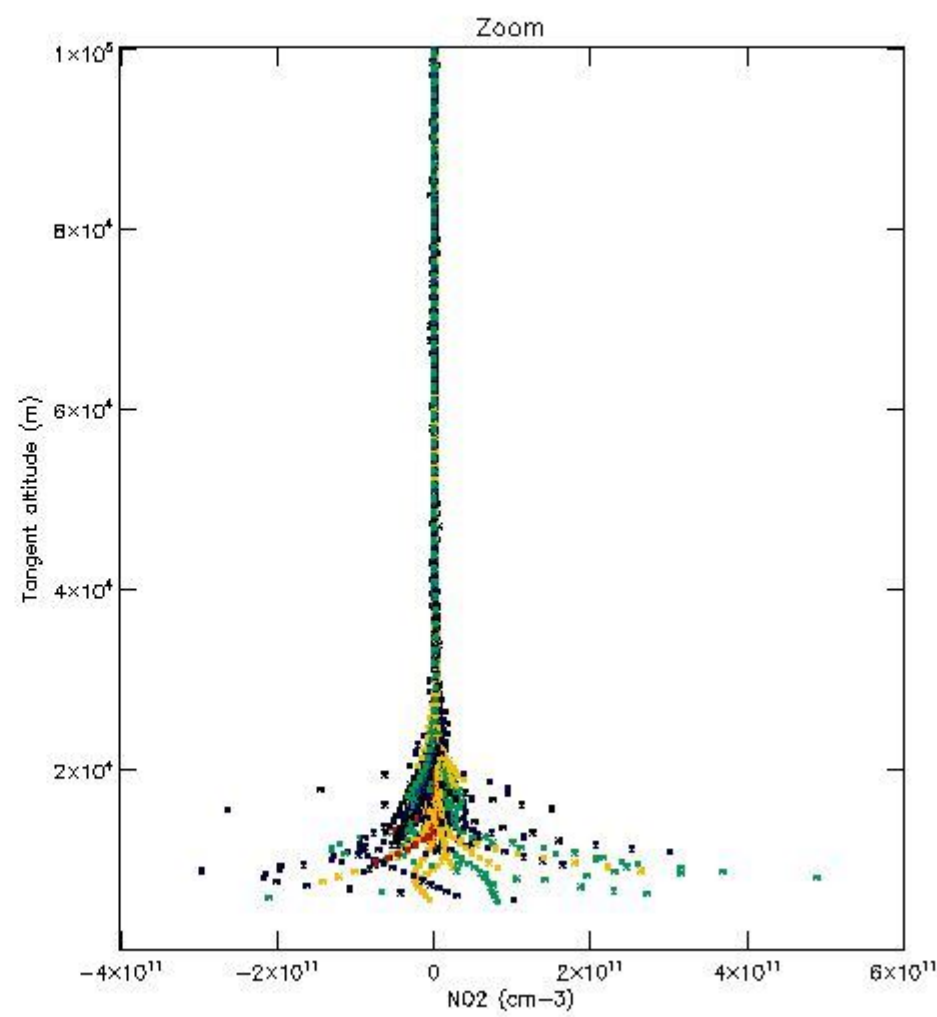
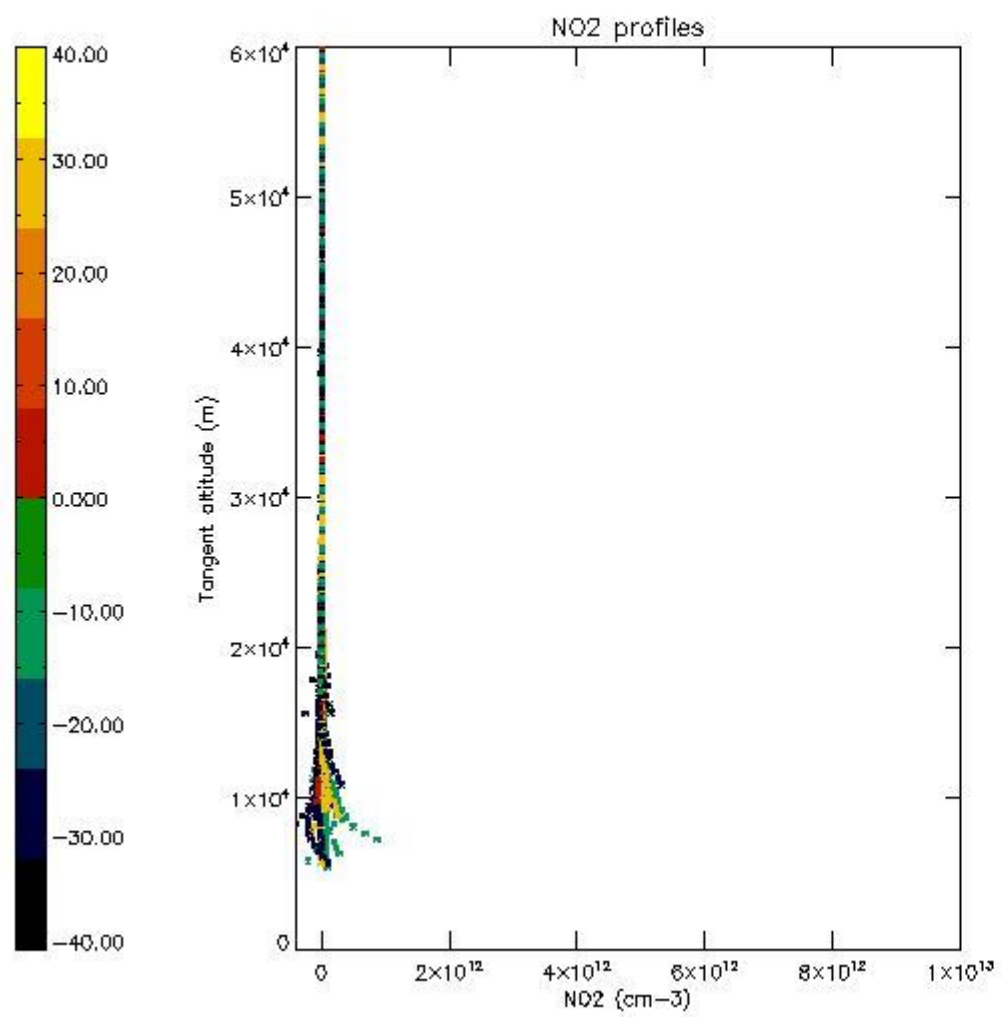
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



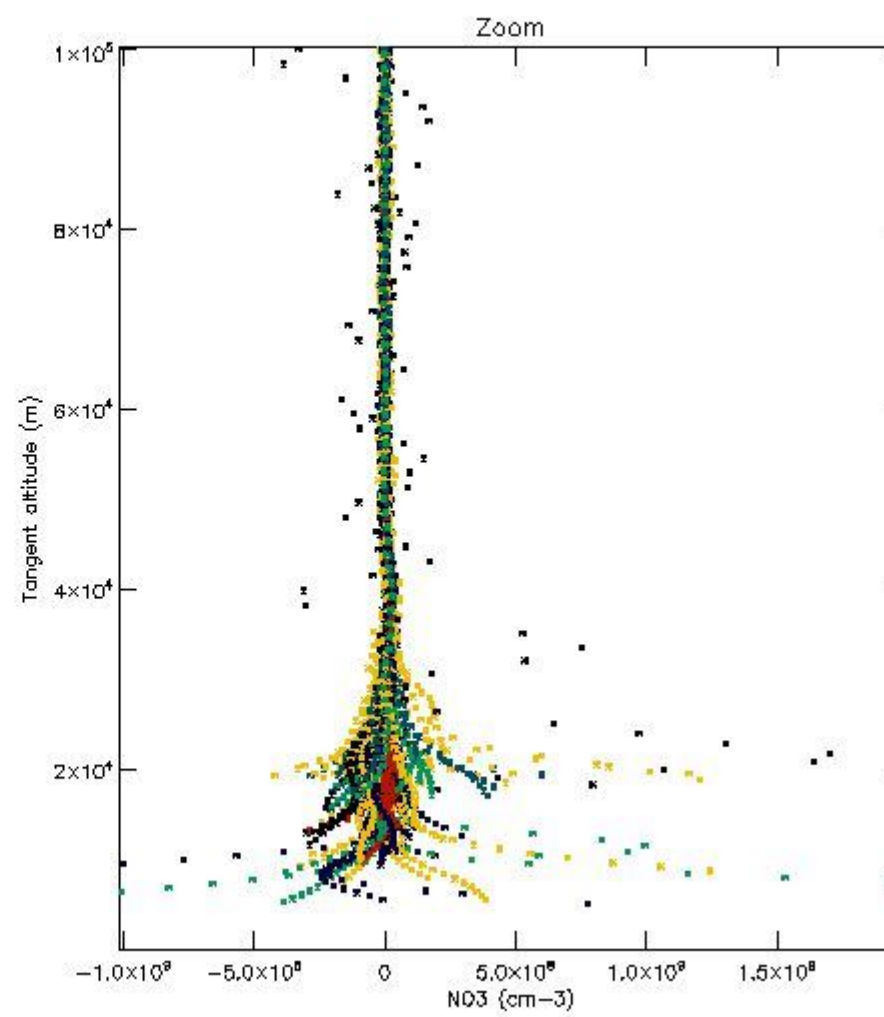
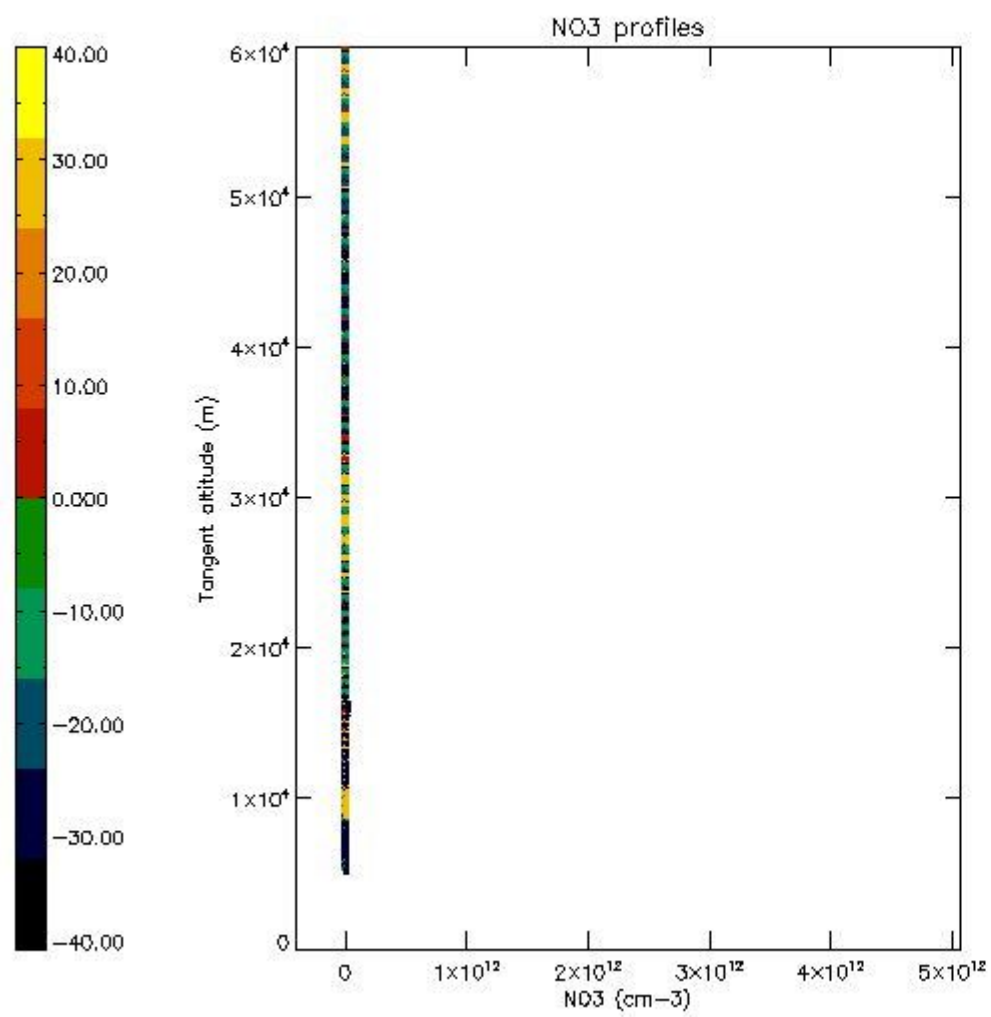
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



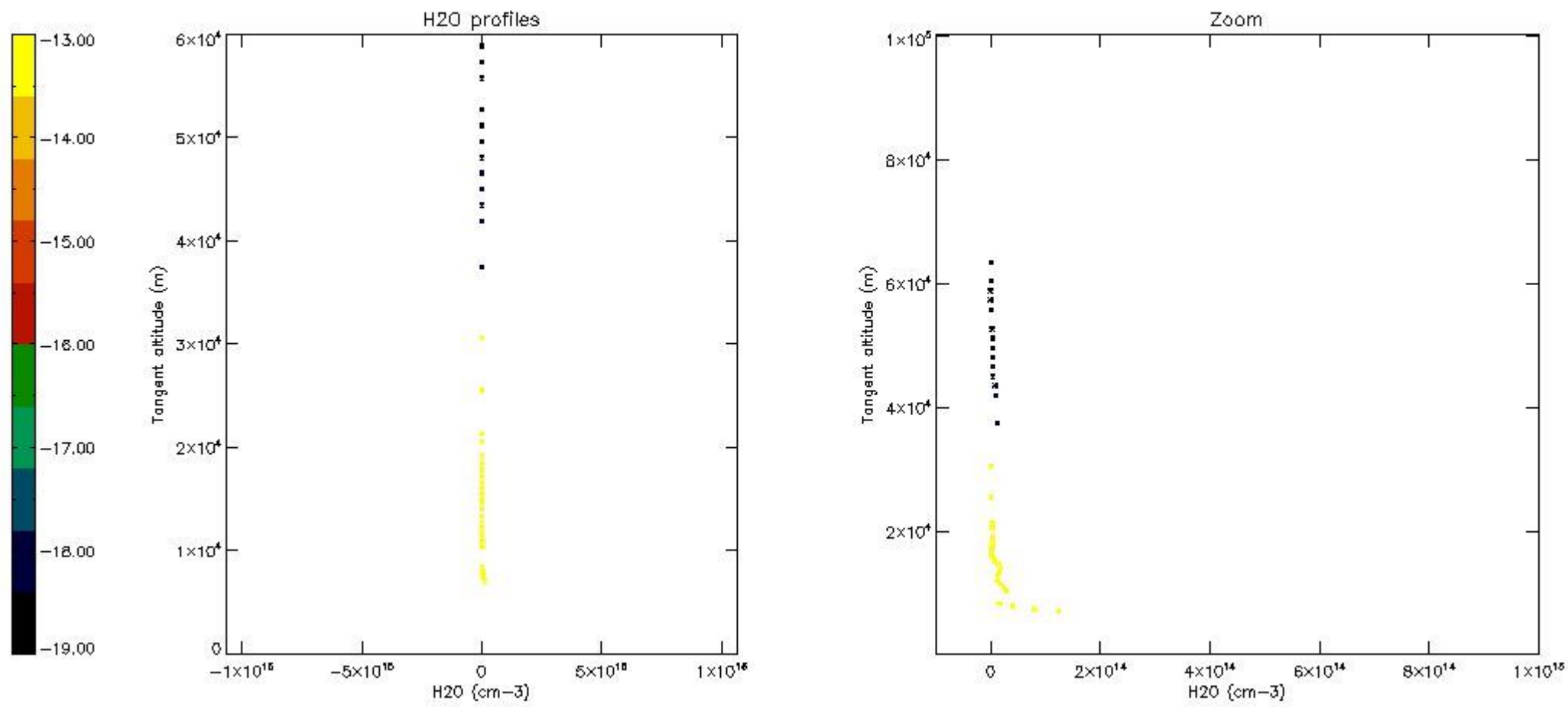
5.7 Plot NO3 profiles for all STD (dark without errors)

The colorbar represents the latitude.



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

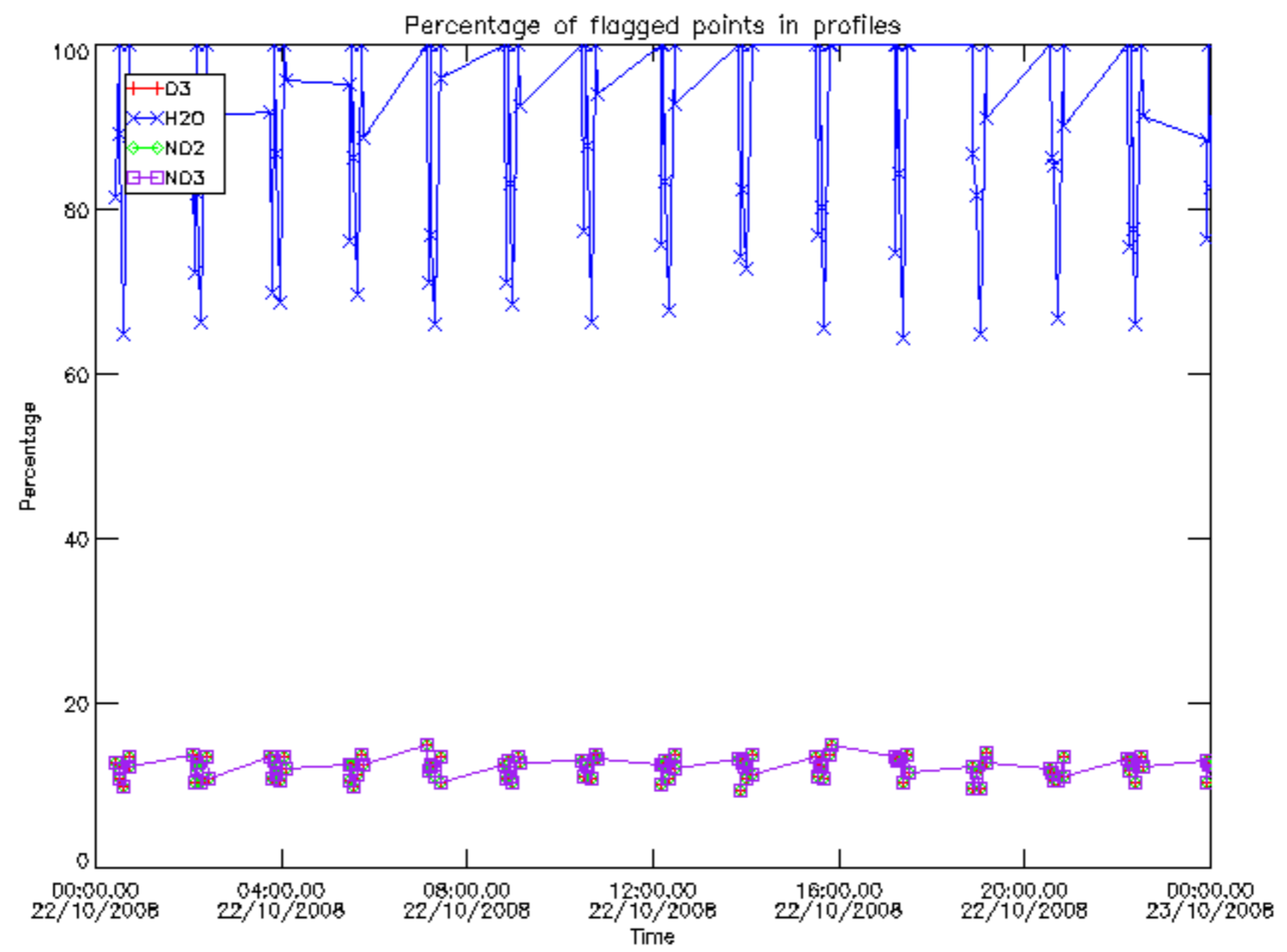
The colorbar represents the latitude.



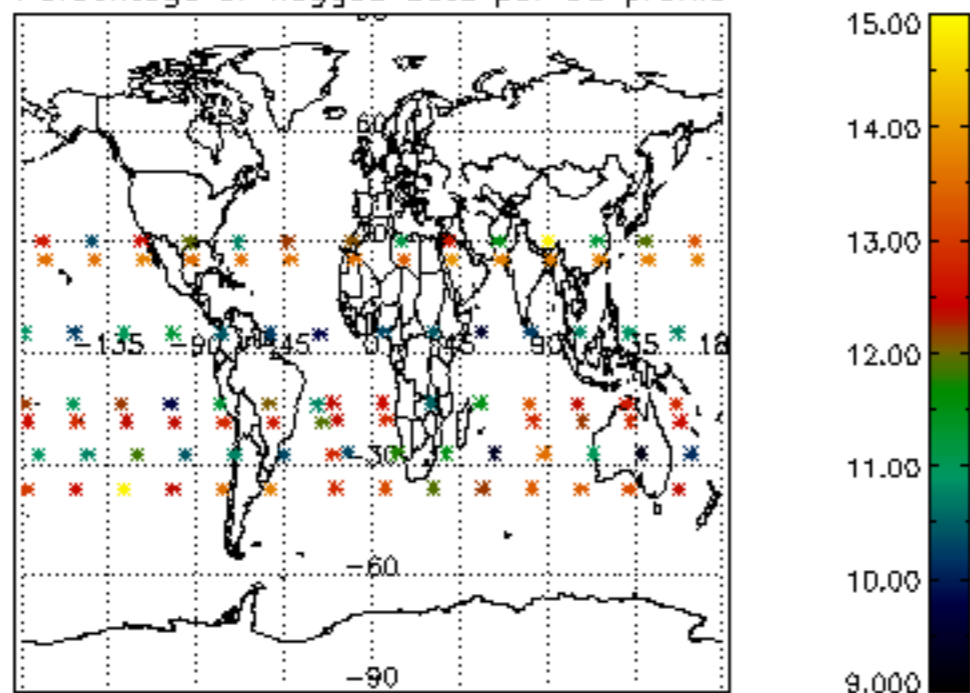
6. Auxiliary Data Files used for the production reported in section 2

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

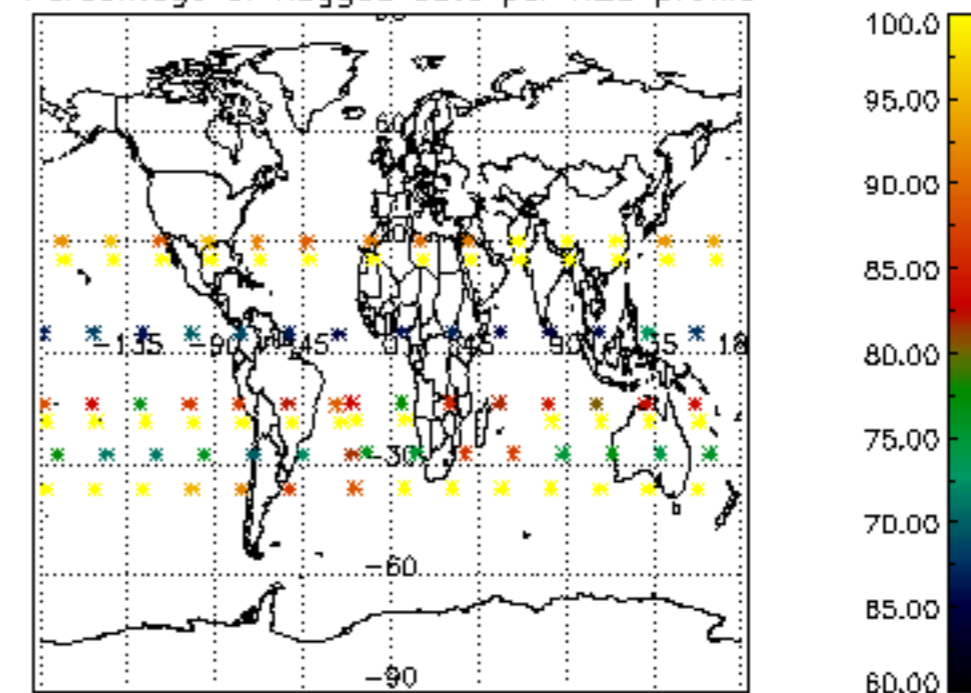
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-OCT-2008 00:06:42
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-OCT-2008 00:06:42
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-OCT-2008 00:06:42



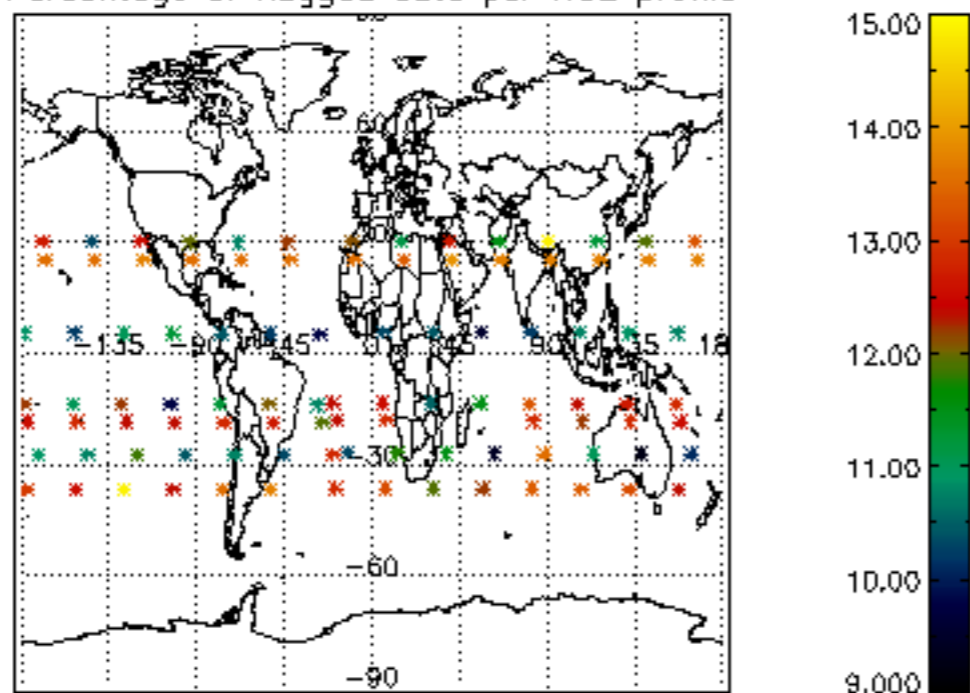
Percentage of flagged data per D3 profile



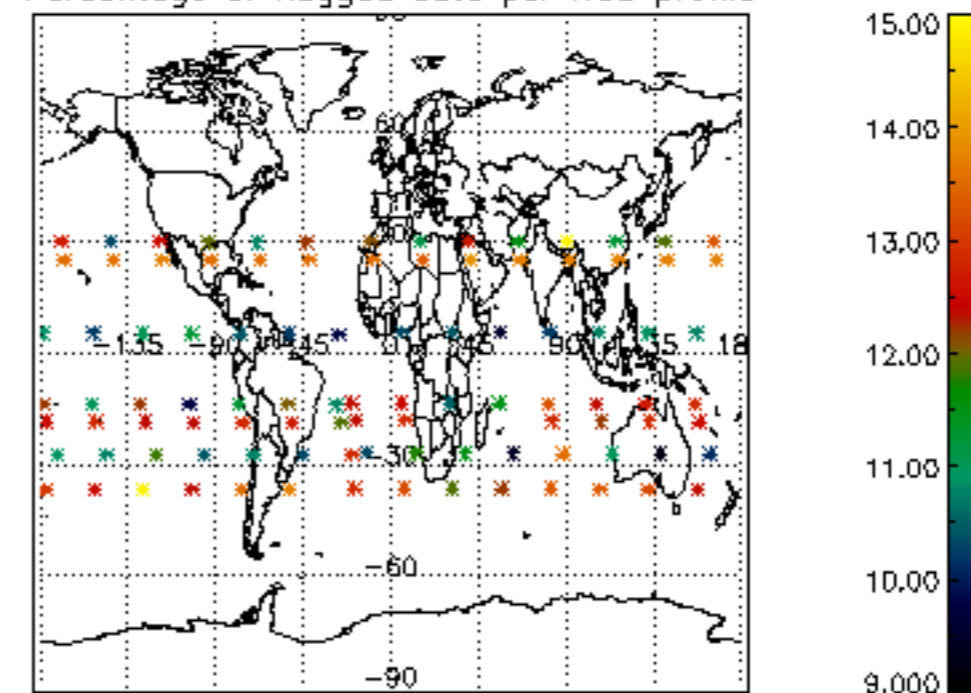
Percentage of flagged data per H2O profile

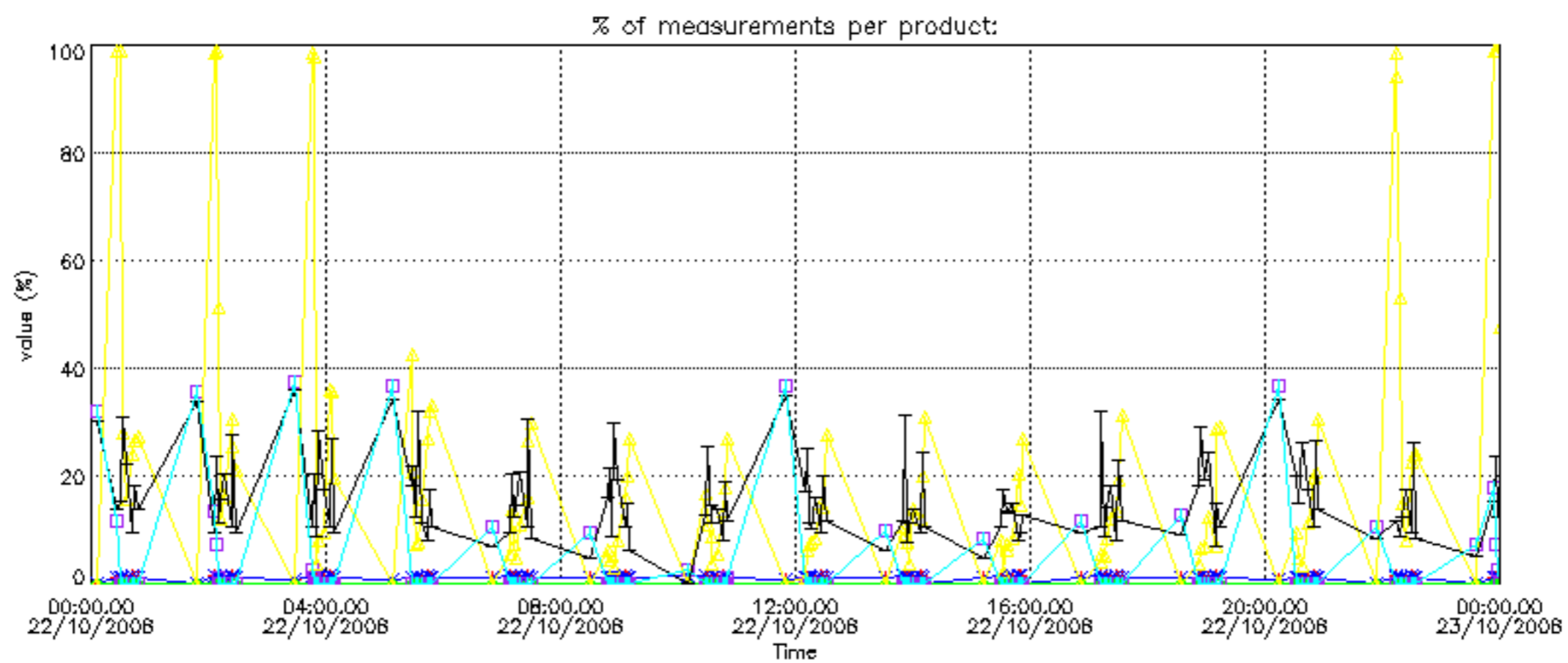


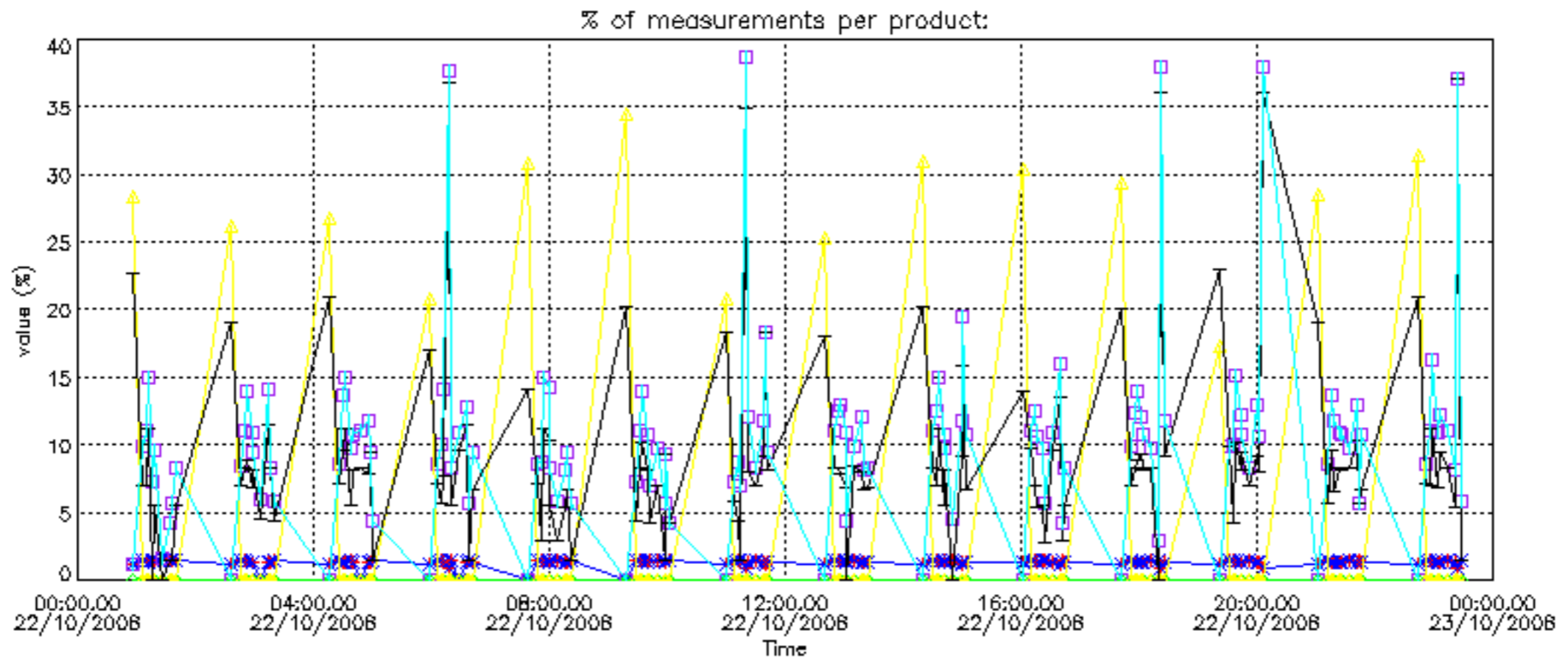
Percentage of flagged data per NO2 profile



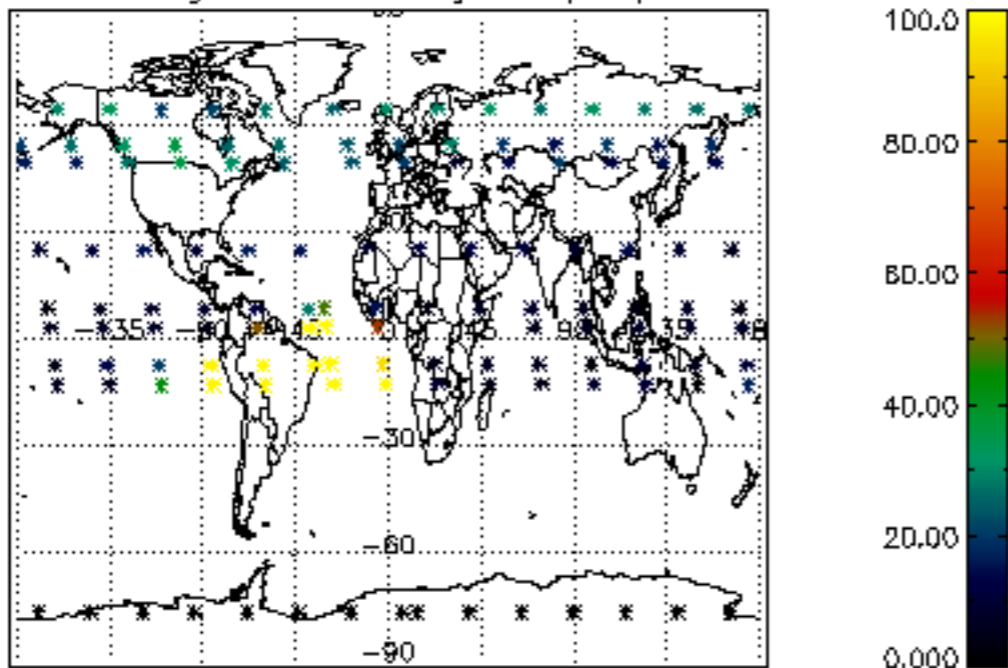
Percentage of flagged data per NO3 profile



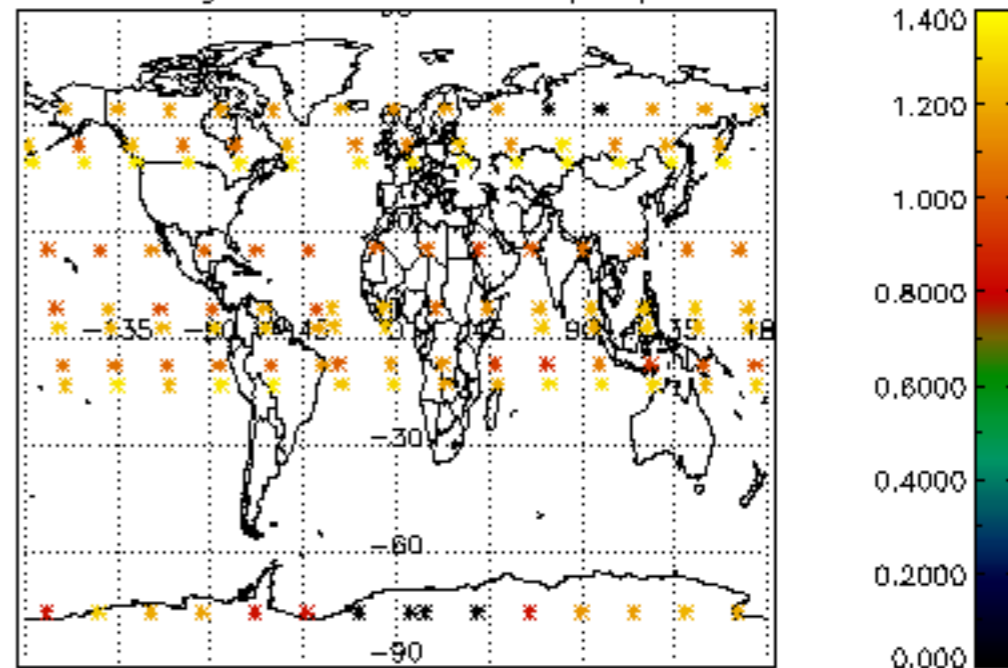




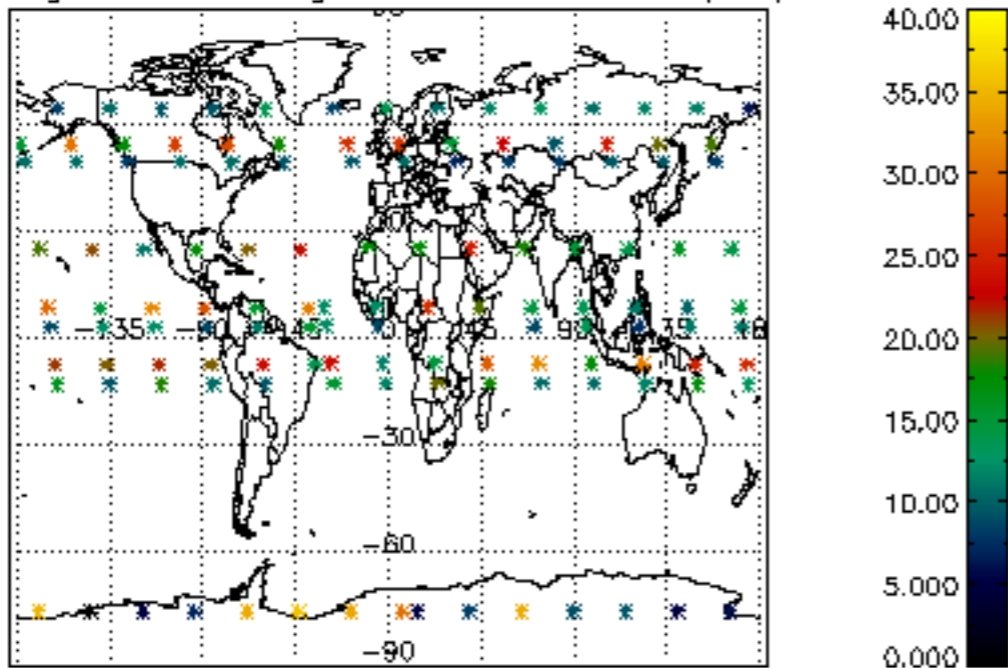
Percentage of cosmic ray hits per profile



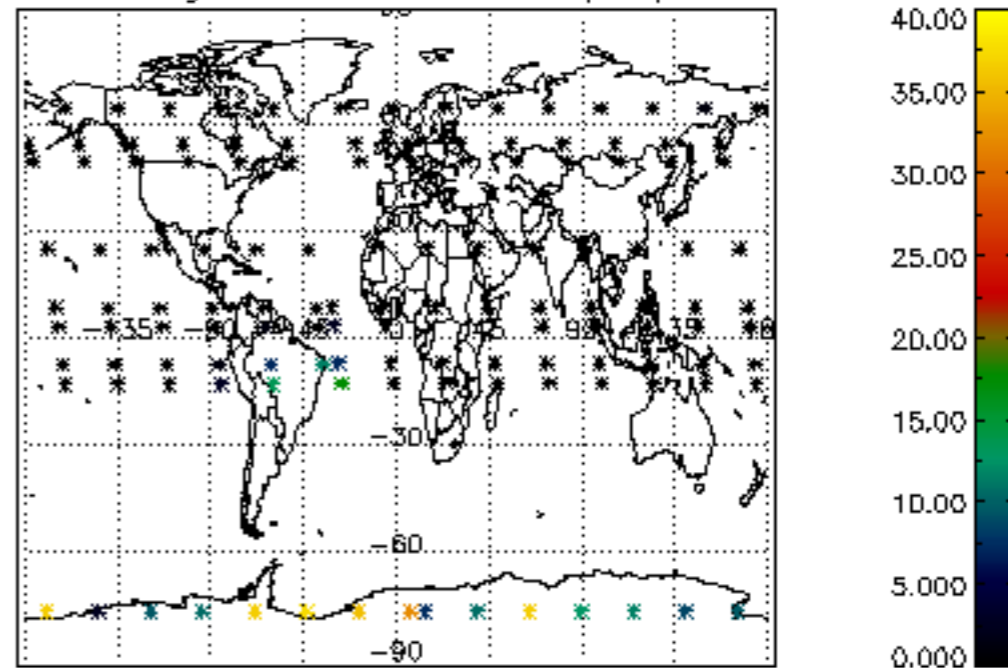
Percentage of datation errors per profile



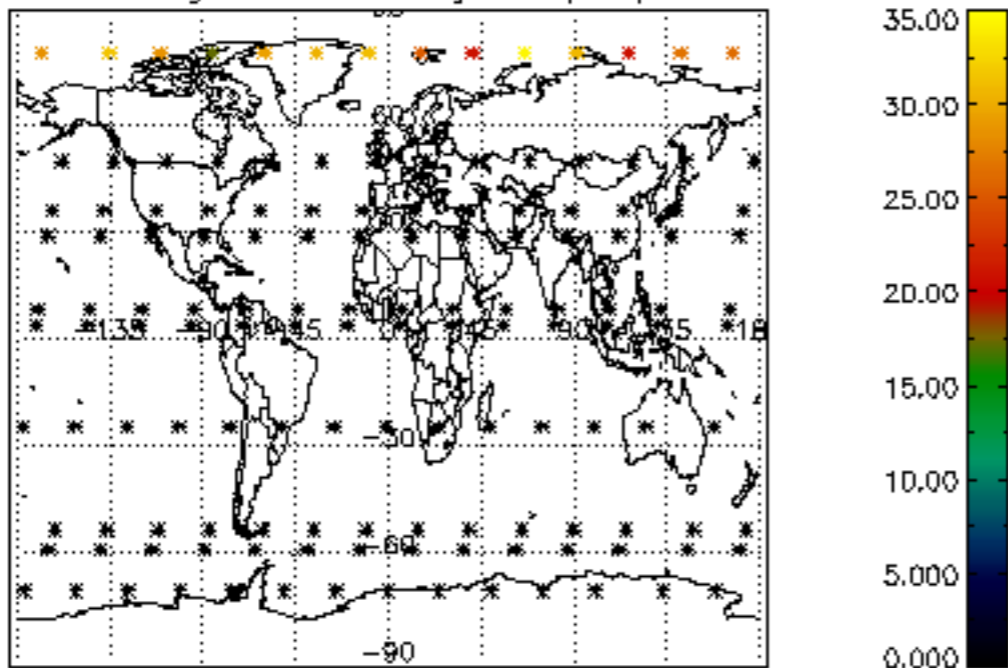
Percentage of star falling outside central band per profile



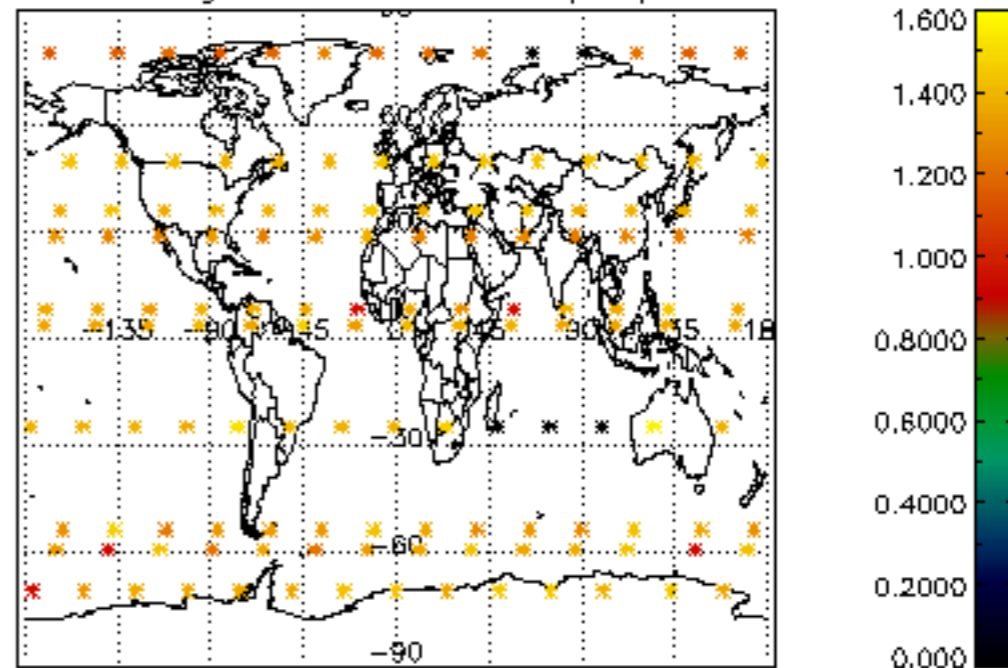
Percentage of saturation errors per profile



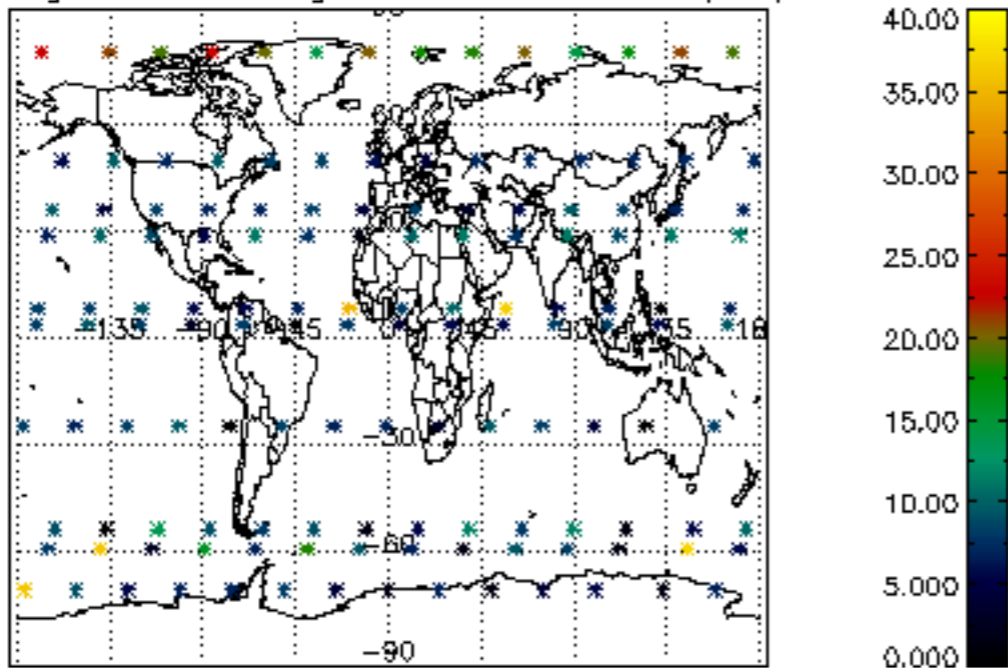
Percentage of cosmic ray hits per profile



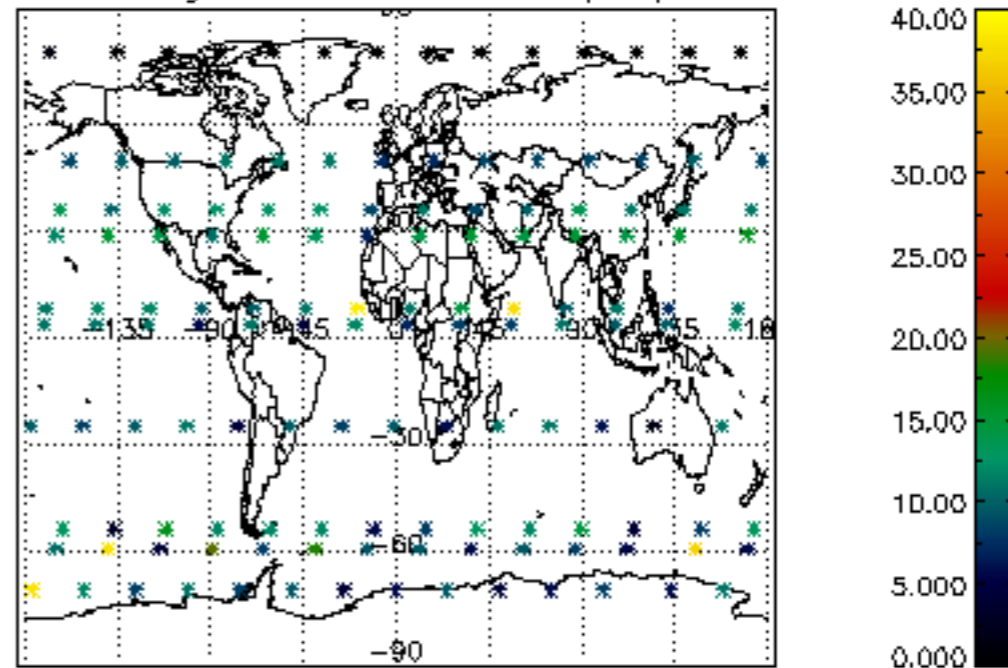
Percentage of datation errors per profile

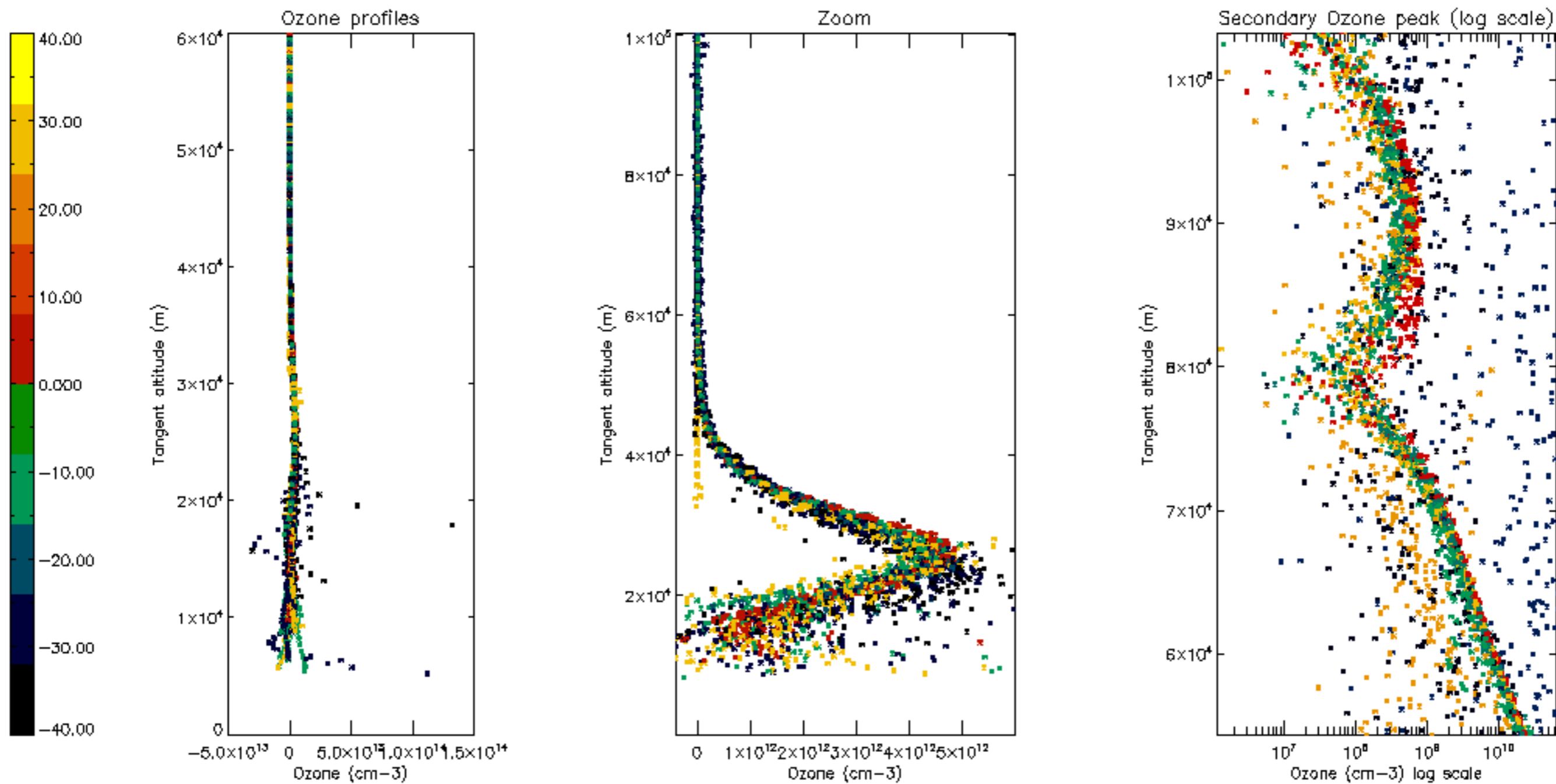


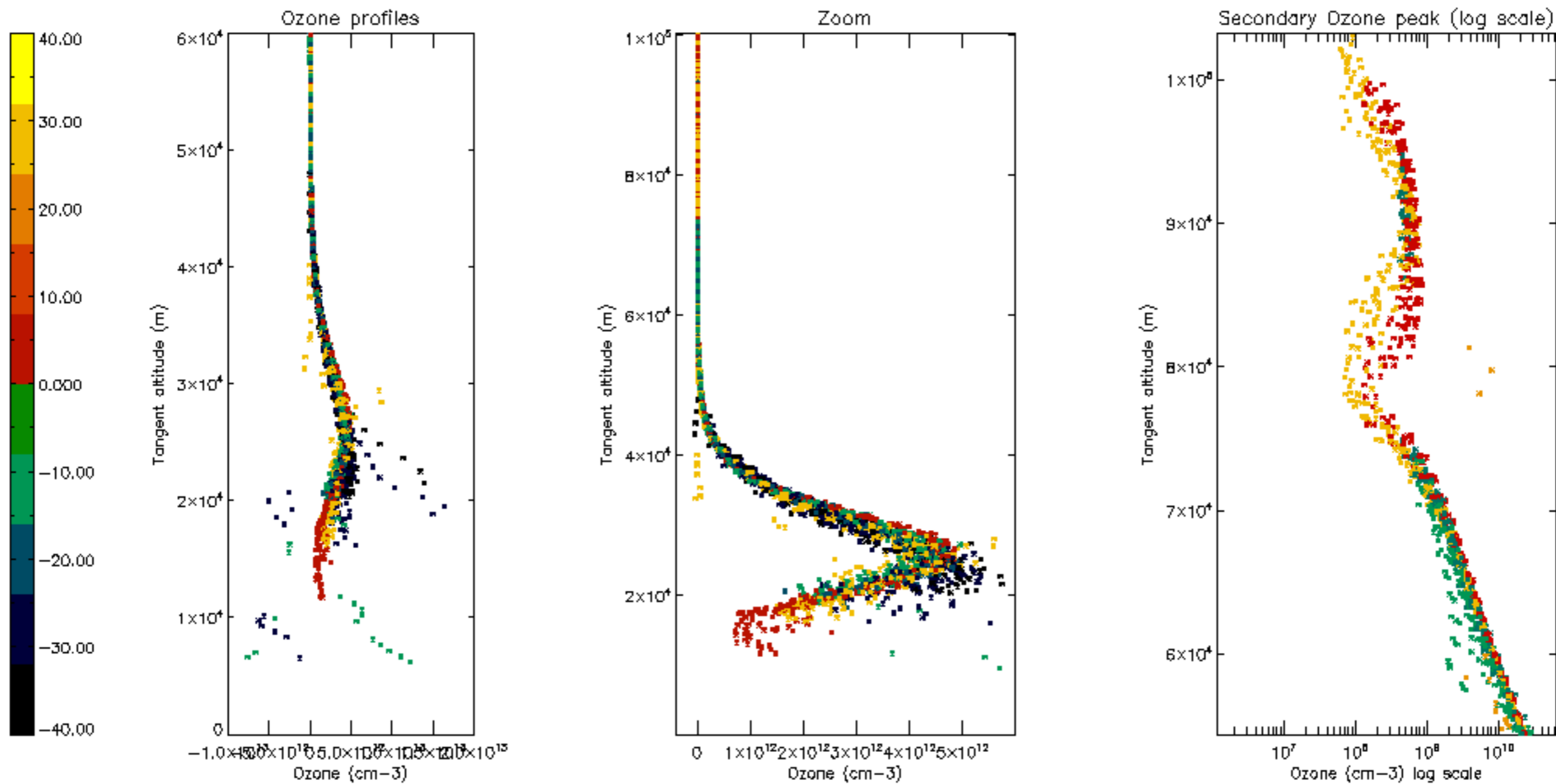
Percentage of star falling outside central band per profile

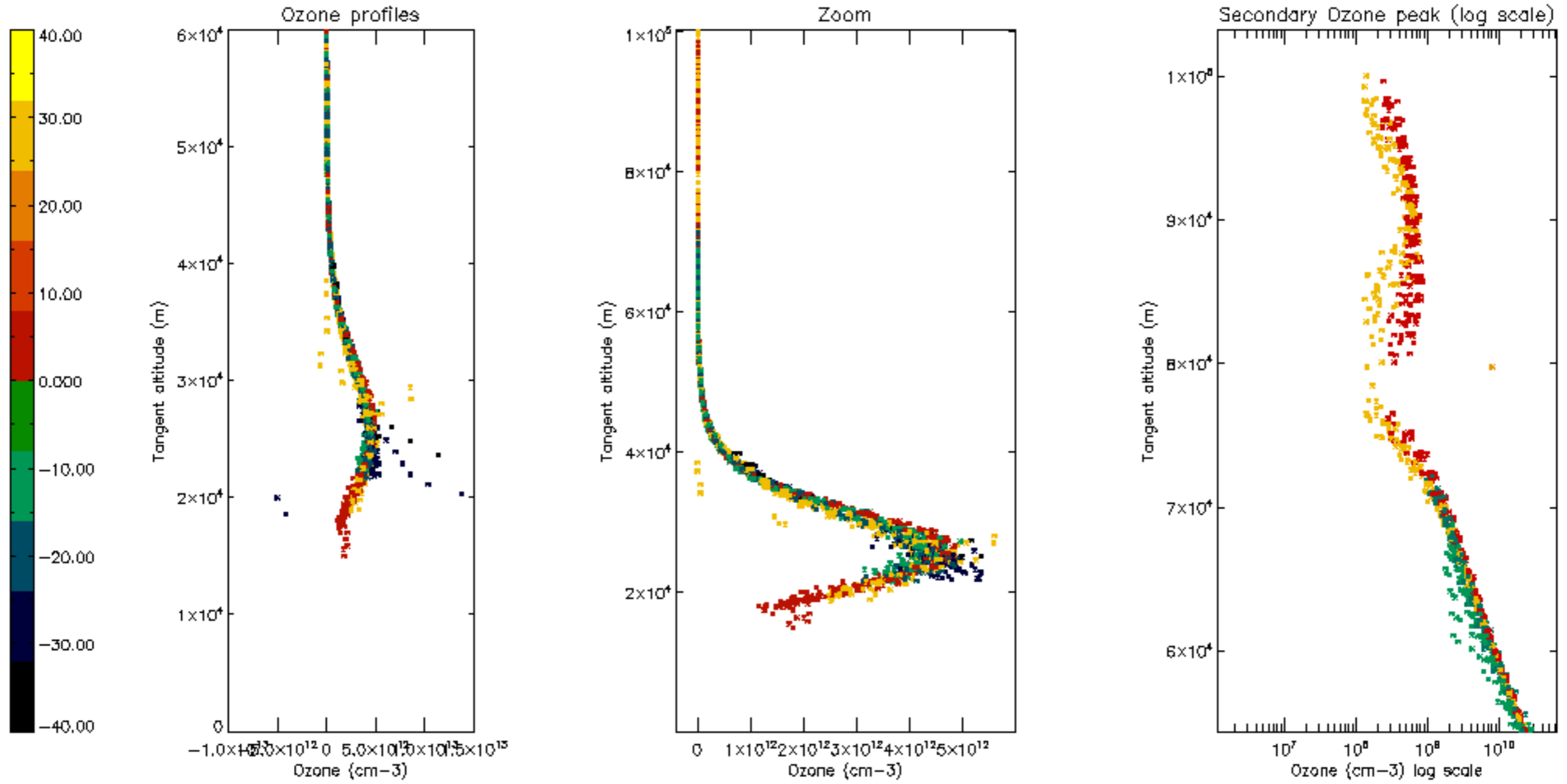


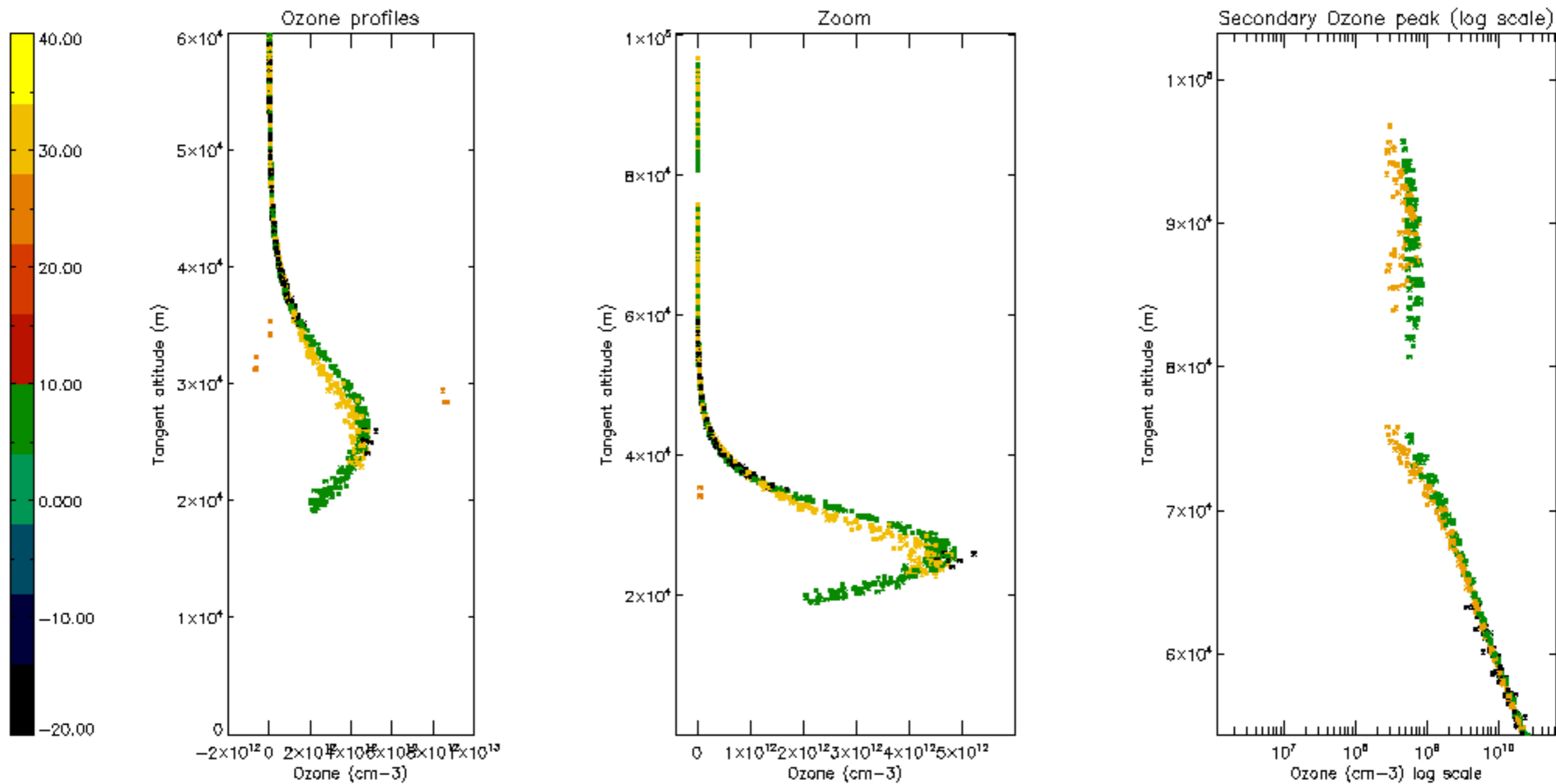
Percentage of saturation errors per profile

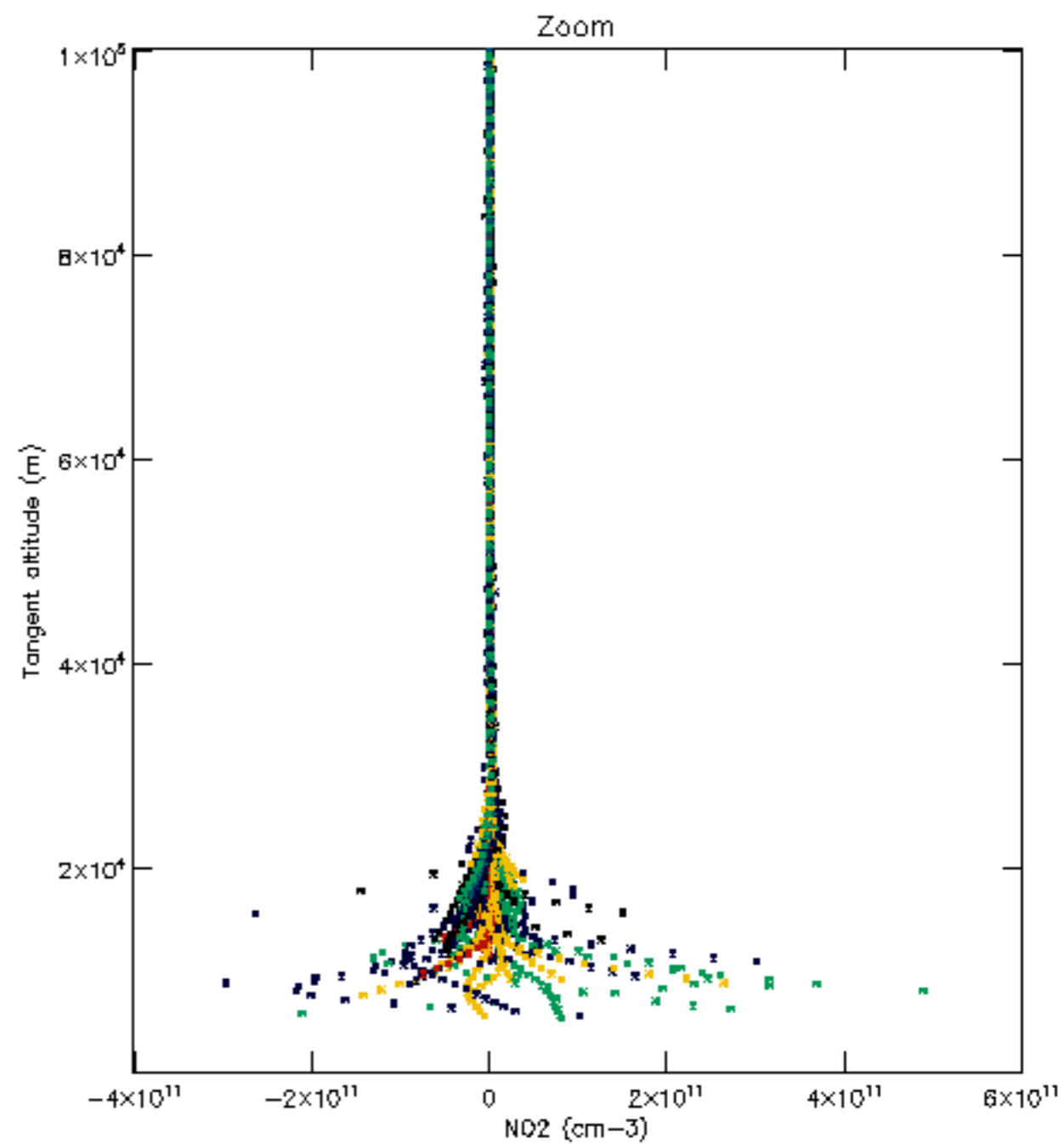
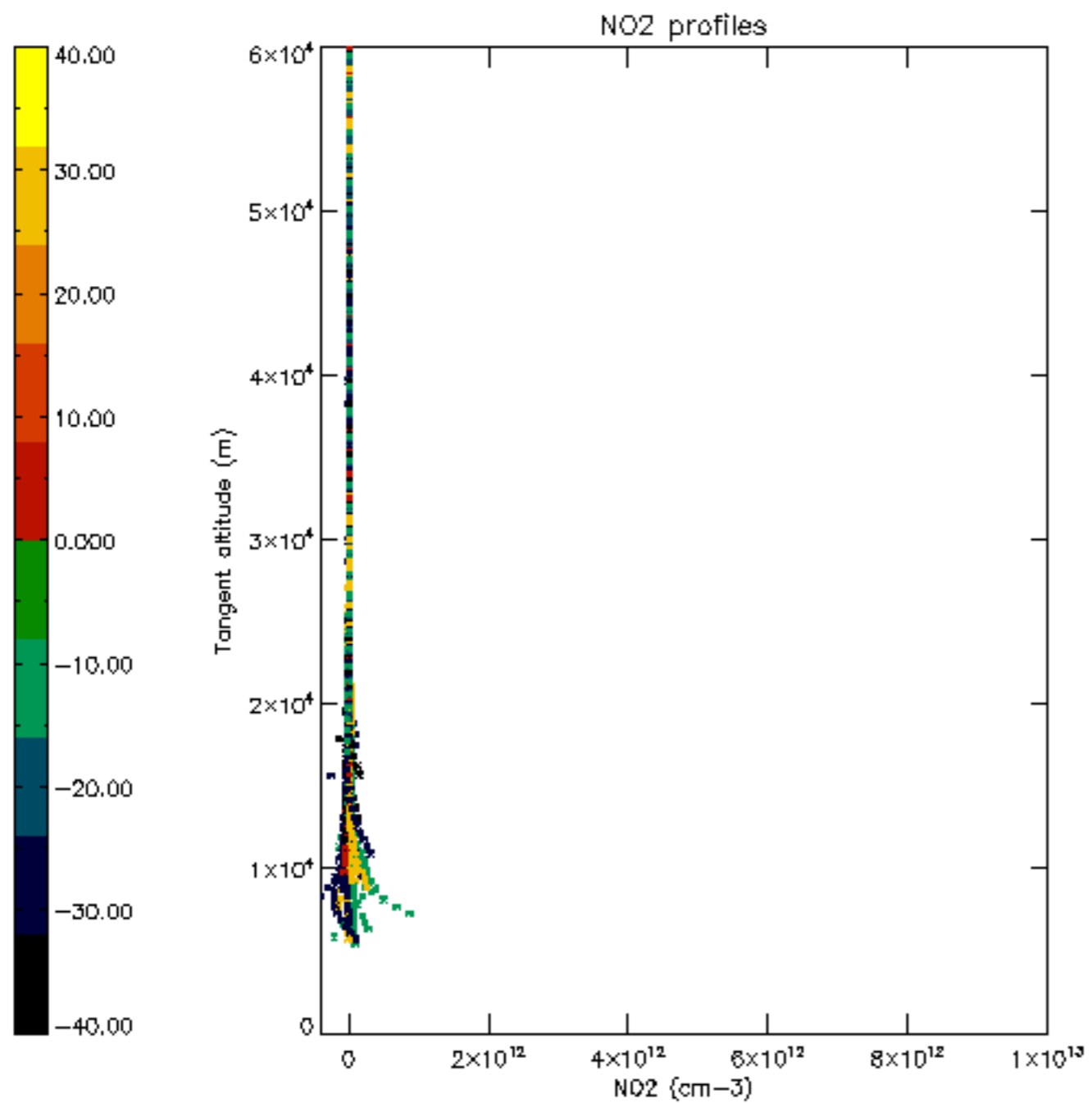


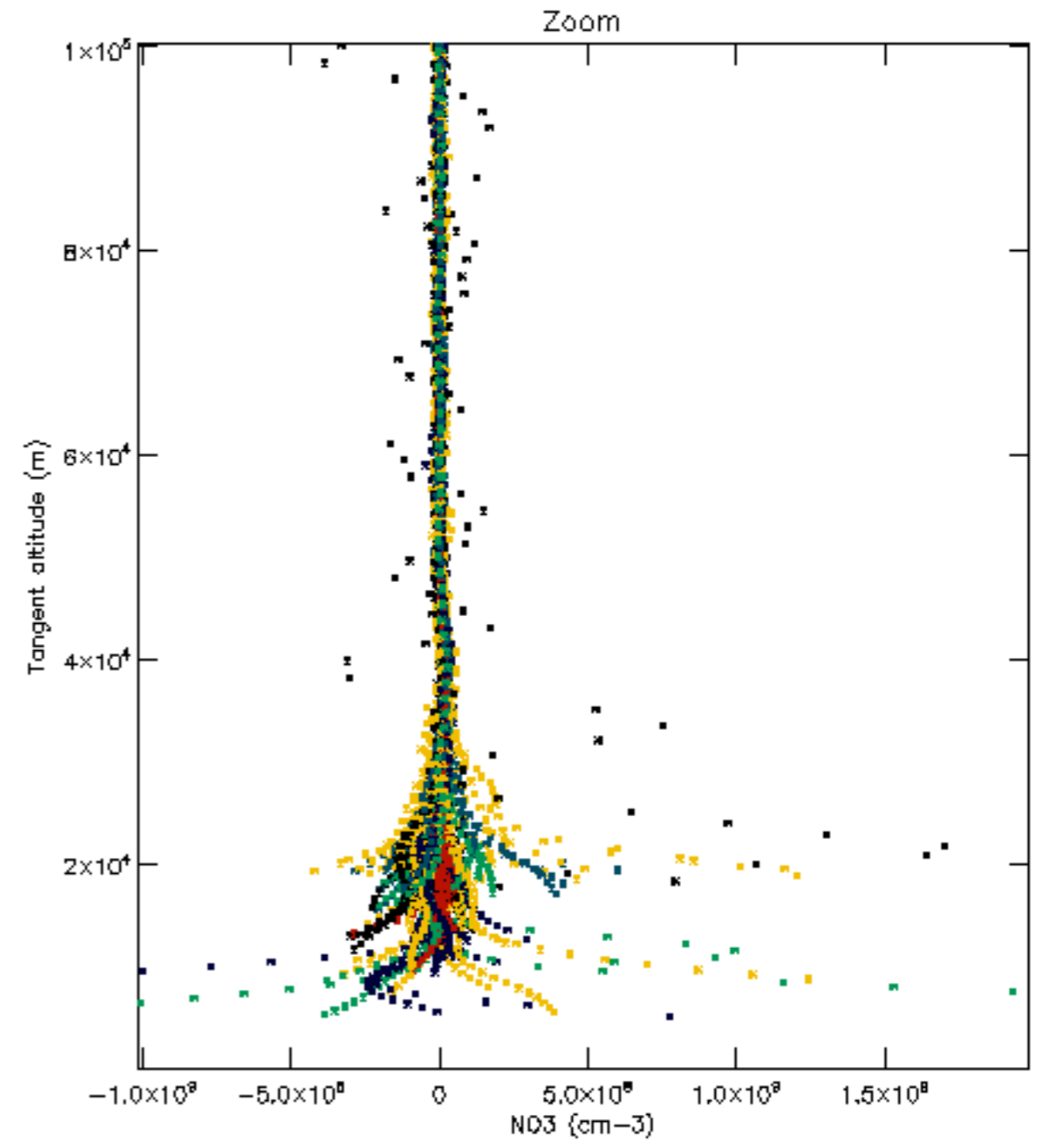
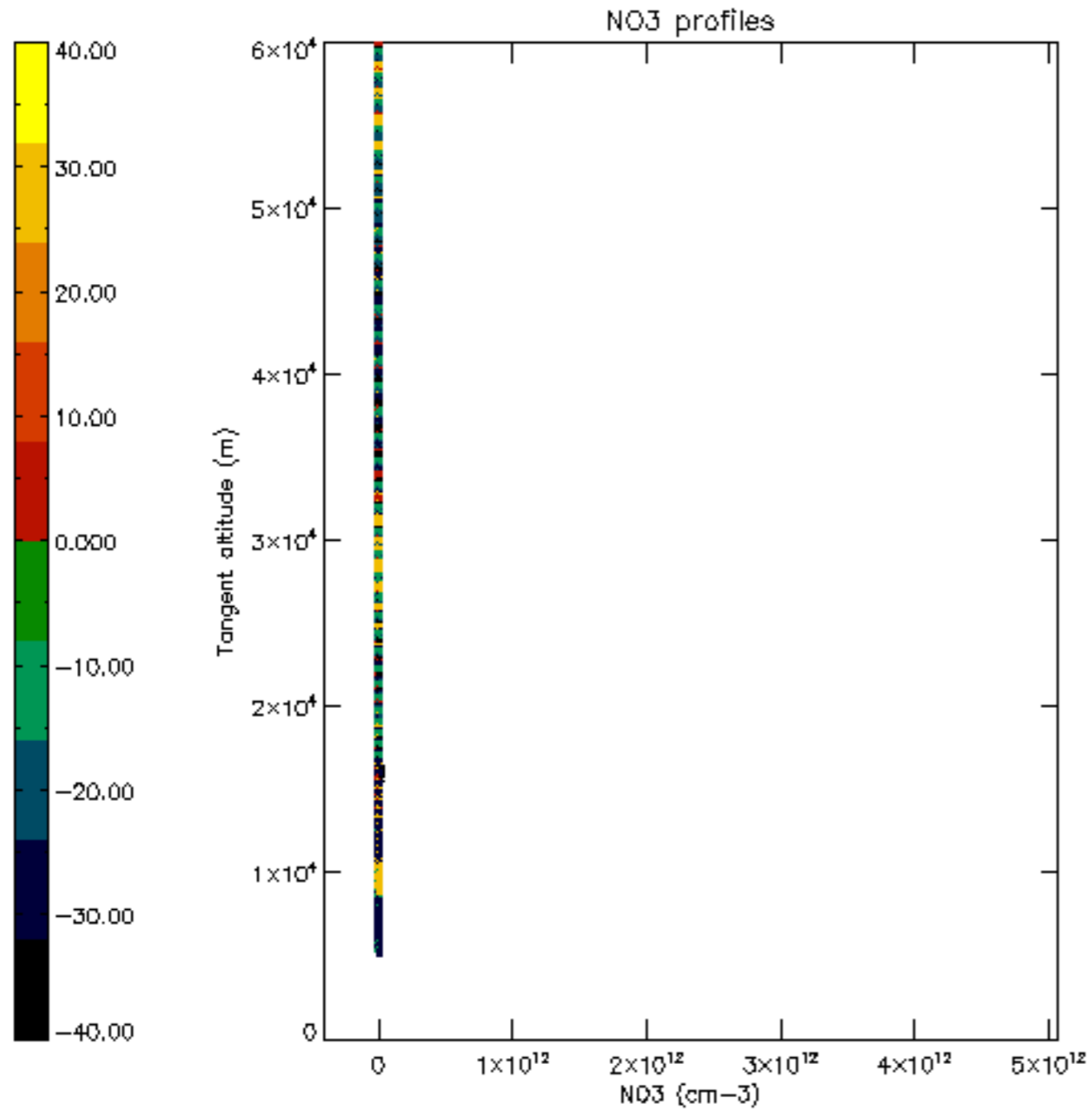


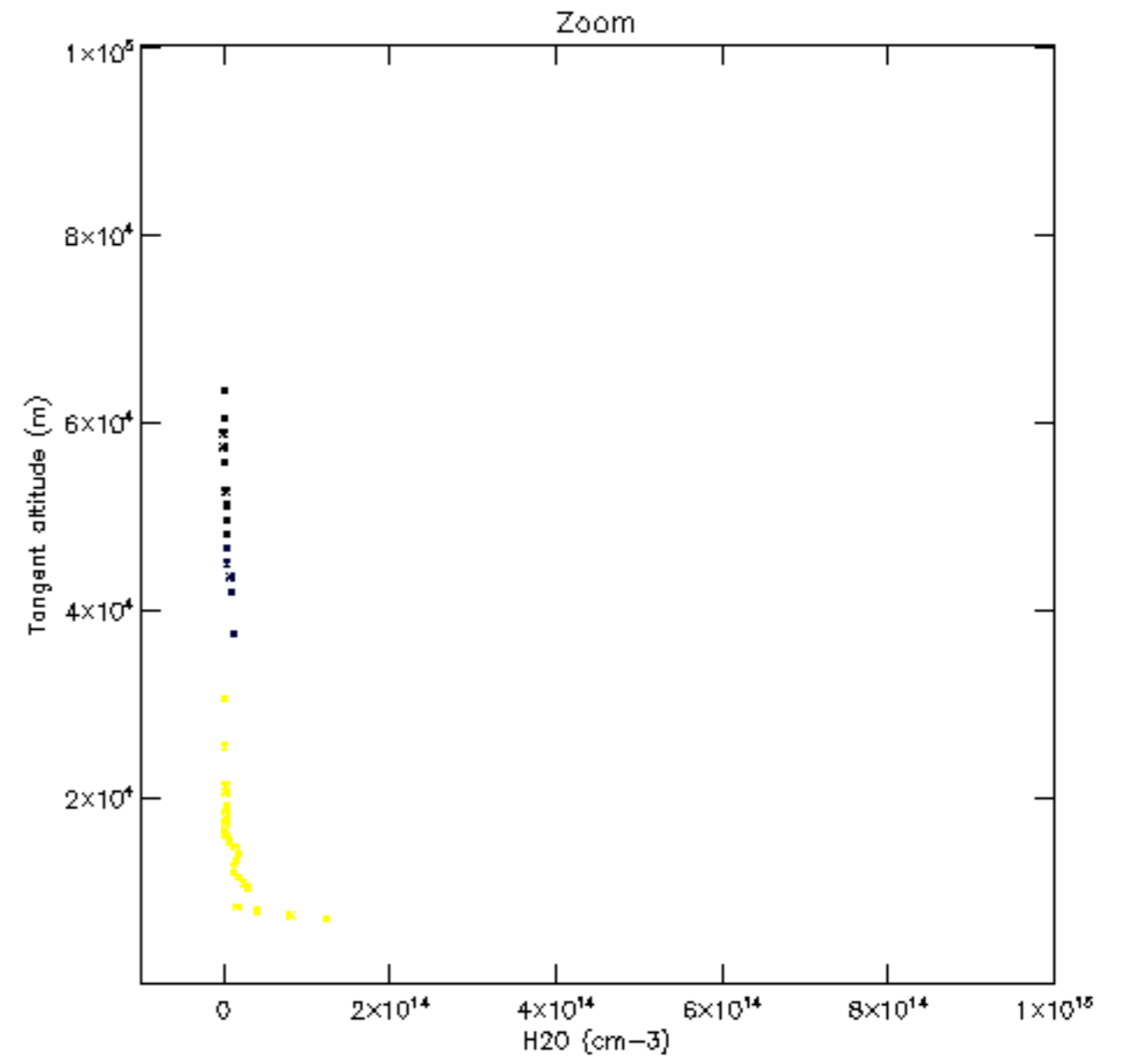
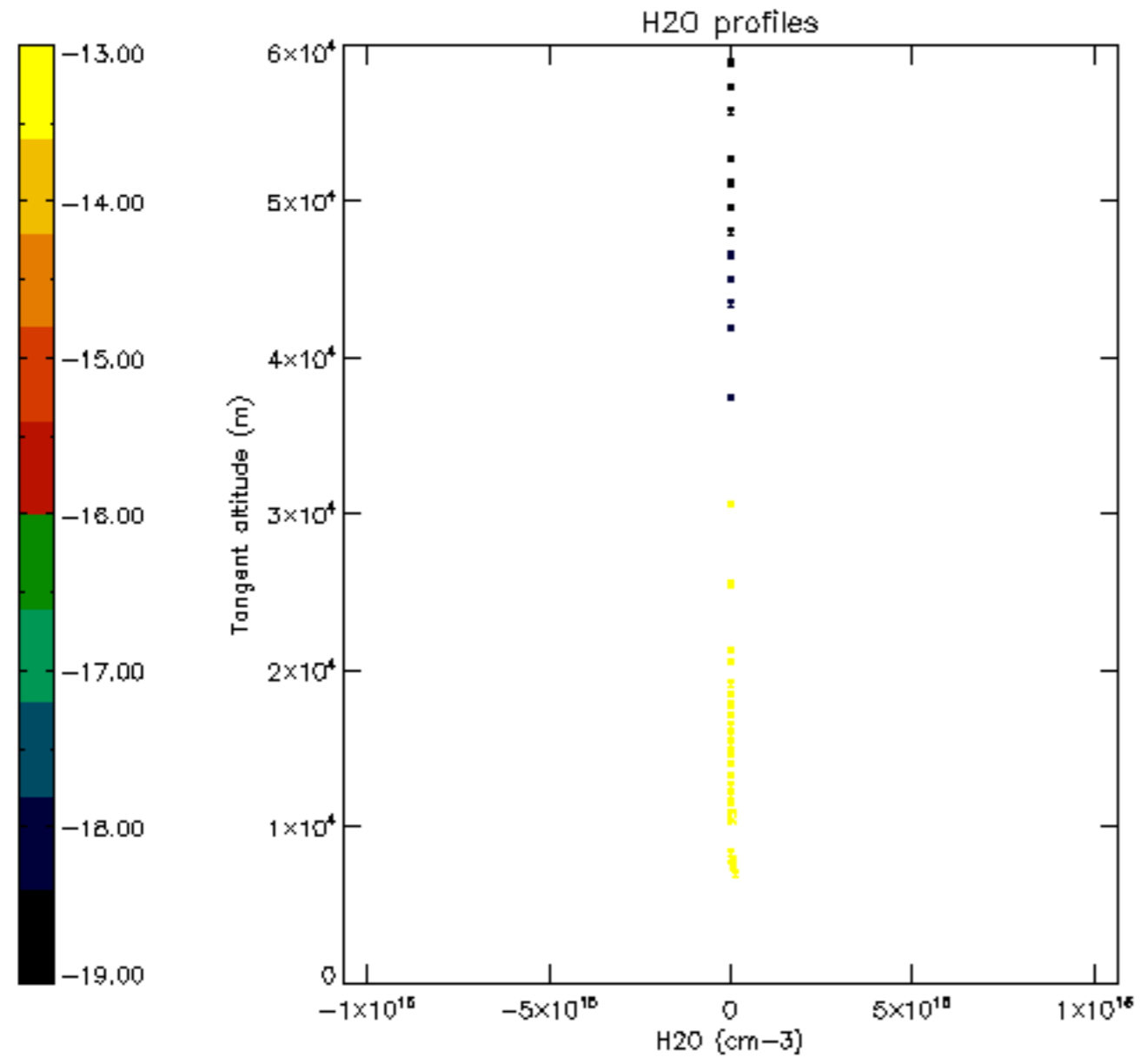


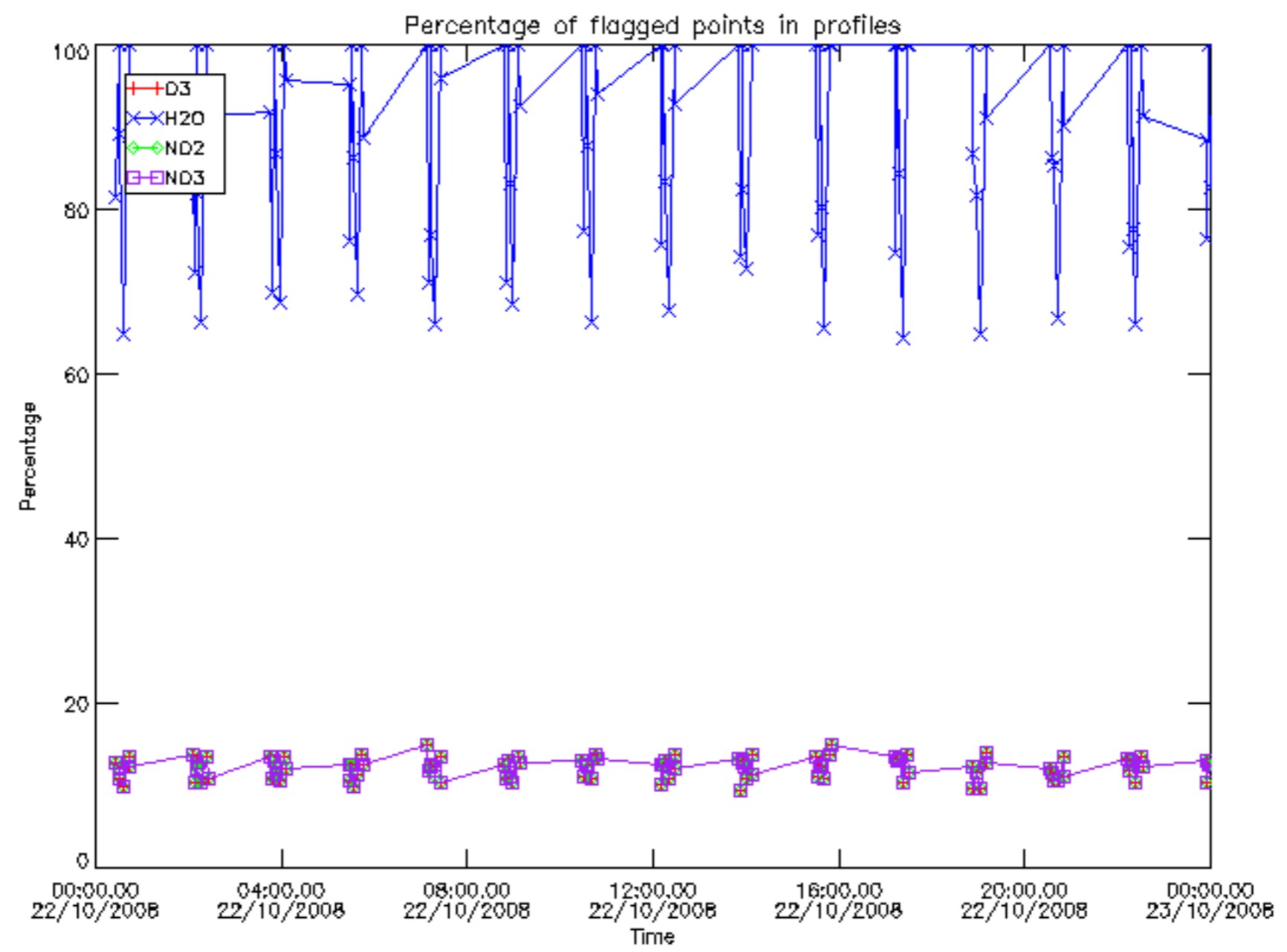




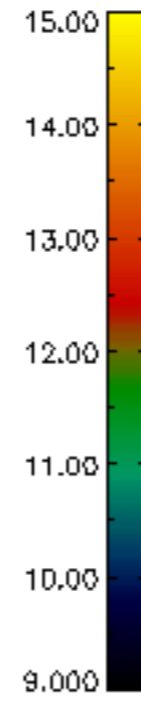
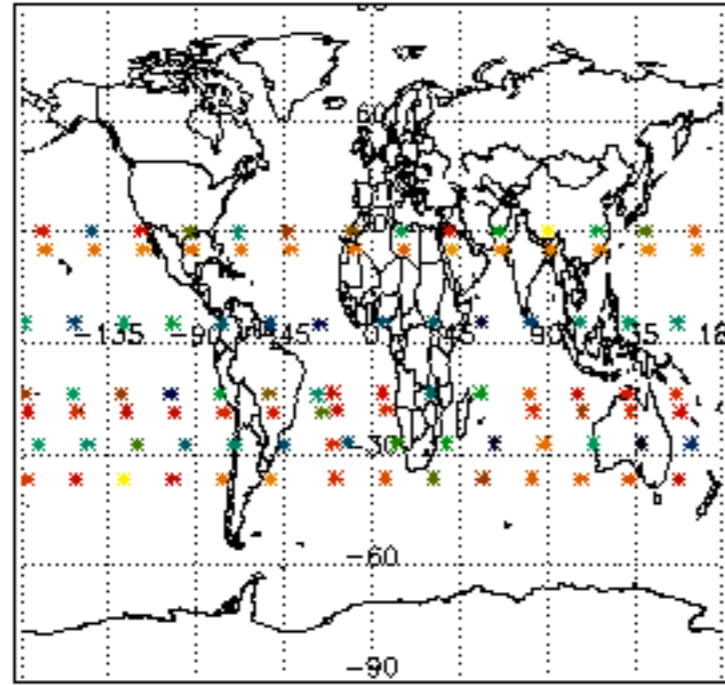




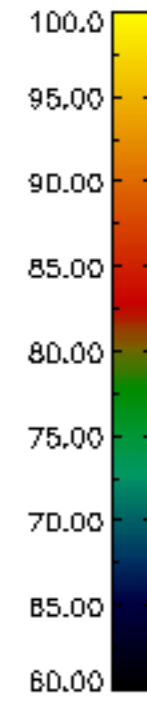
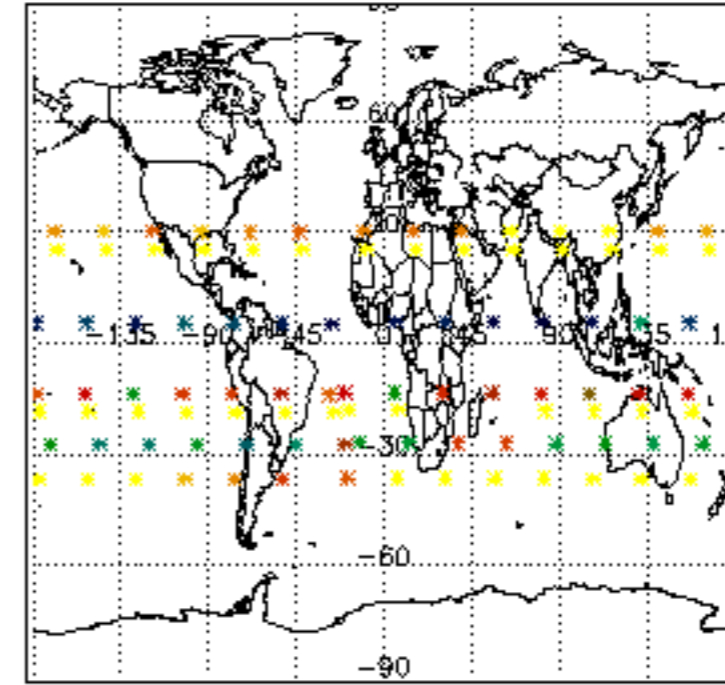




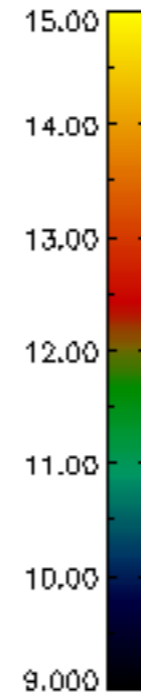
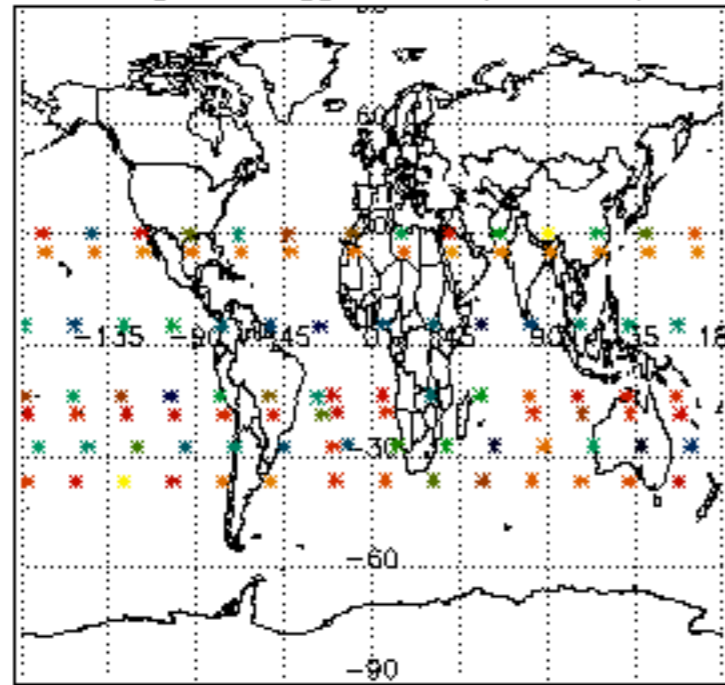
Percentage of flagged data per D3 profile



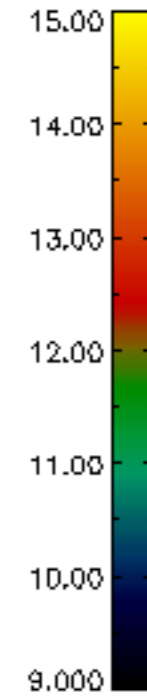
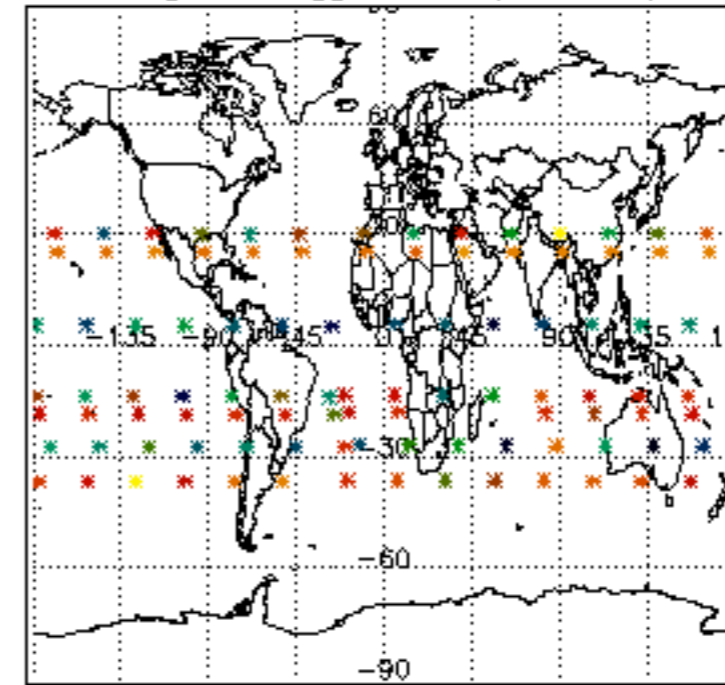
Percentage of flagged data per H2O profile

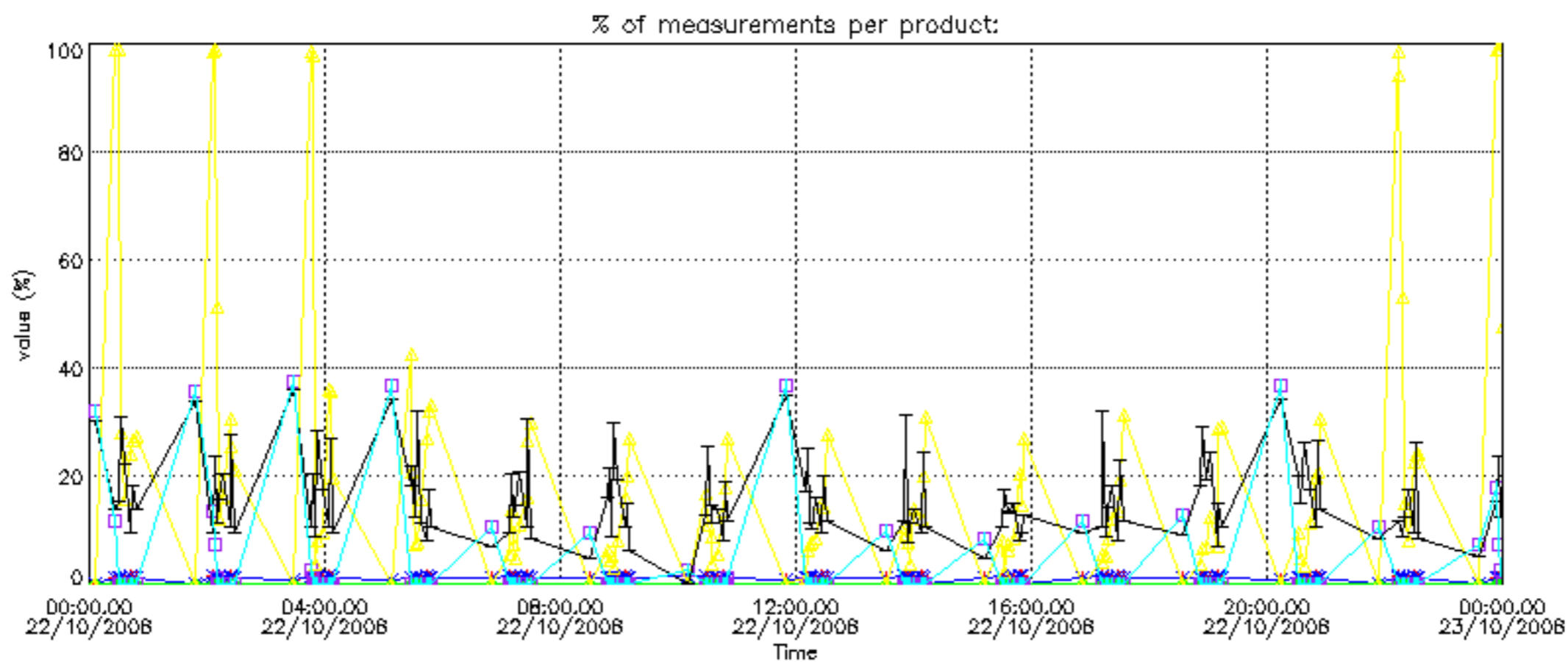


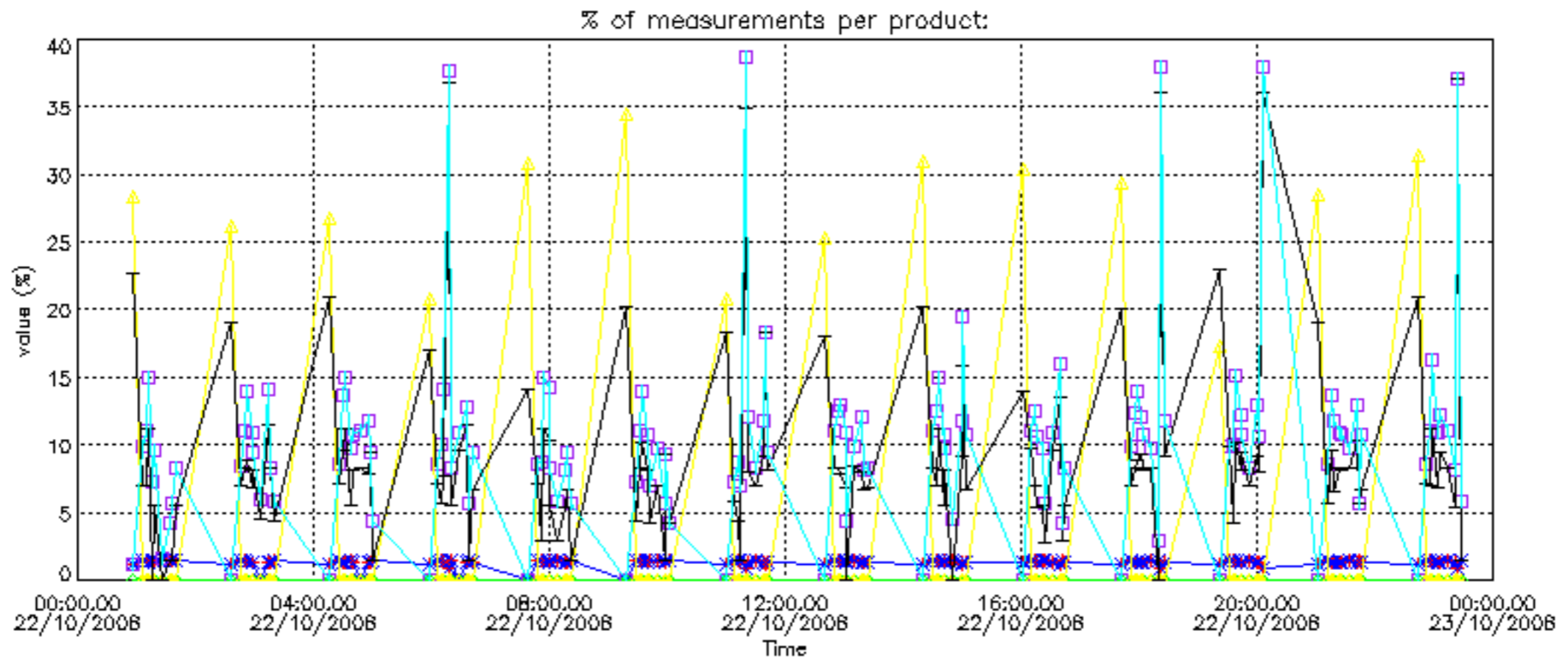
Percentage of flagged data per NO2 profile



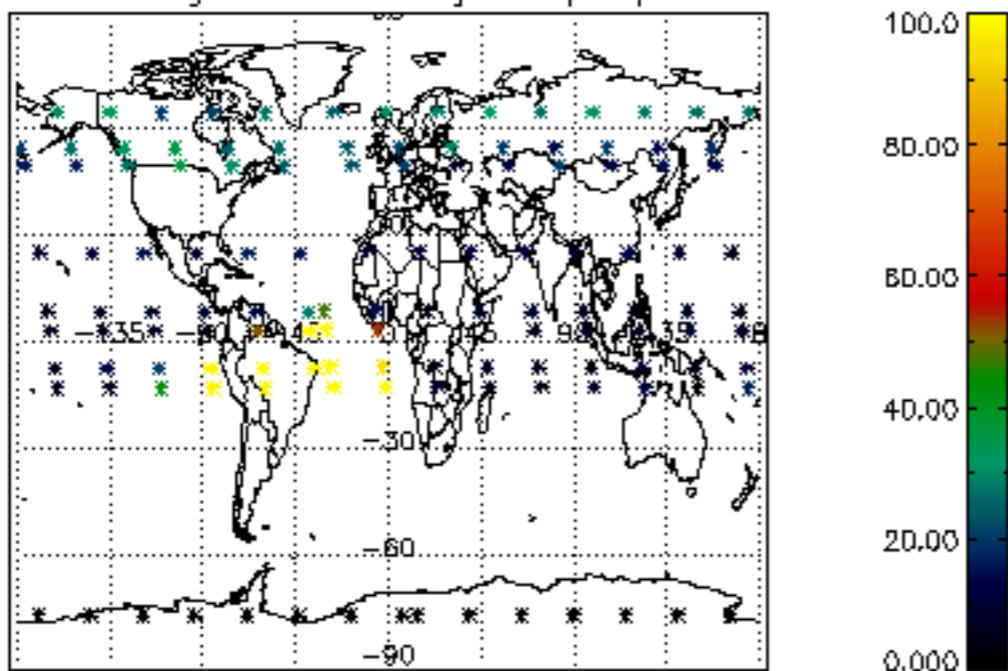
Percentage of flagged data per NO3 profile



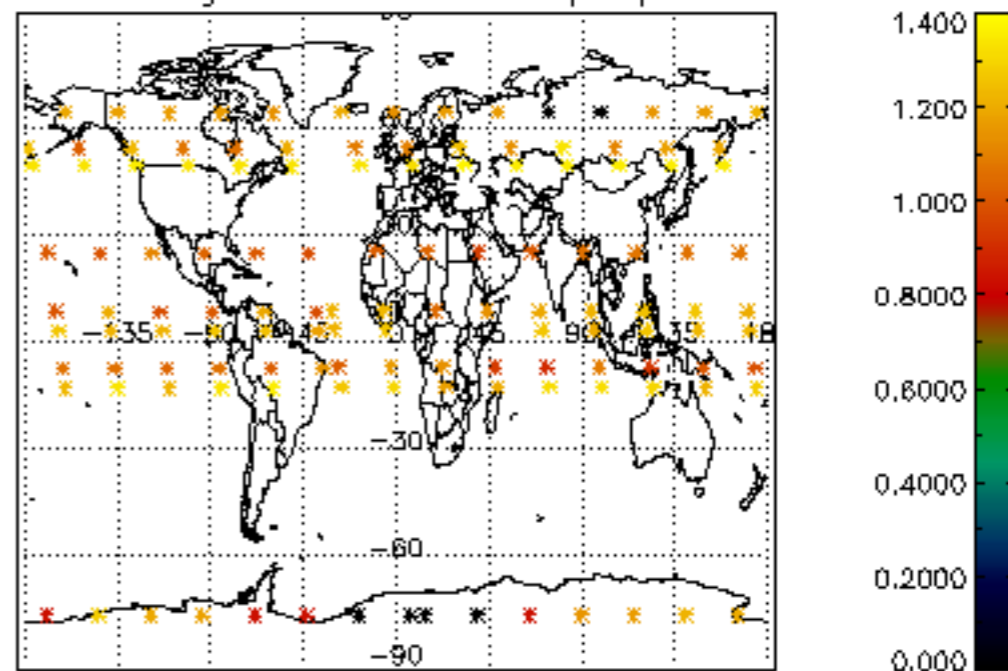




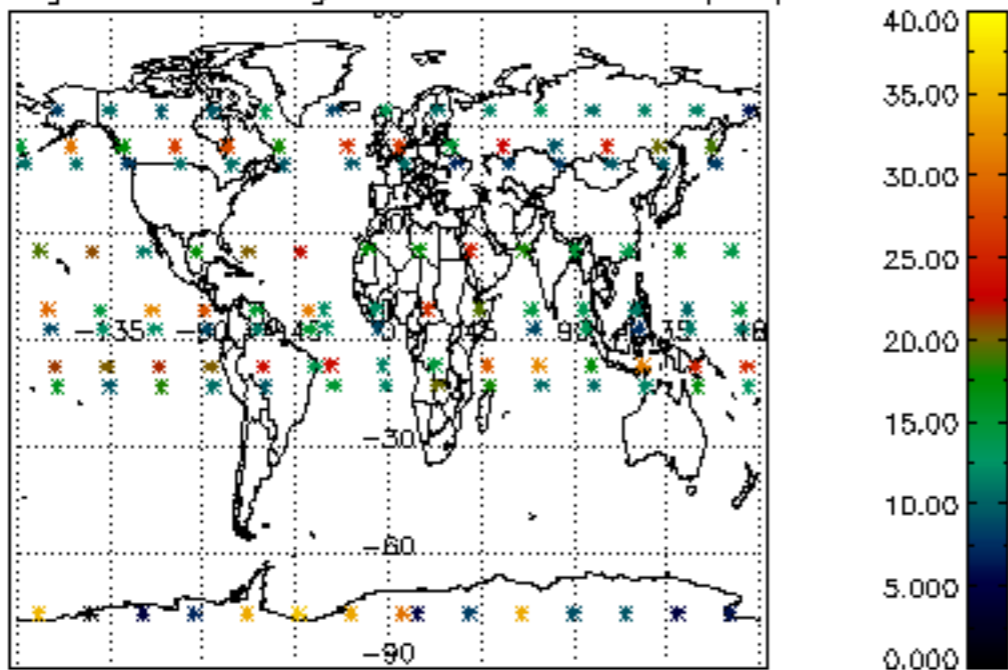
Percentage of cosmic ray hits per profile



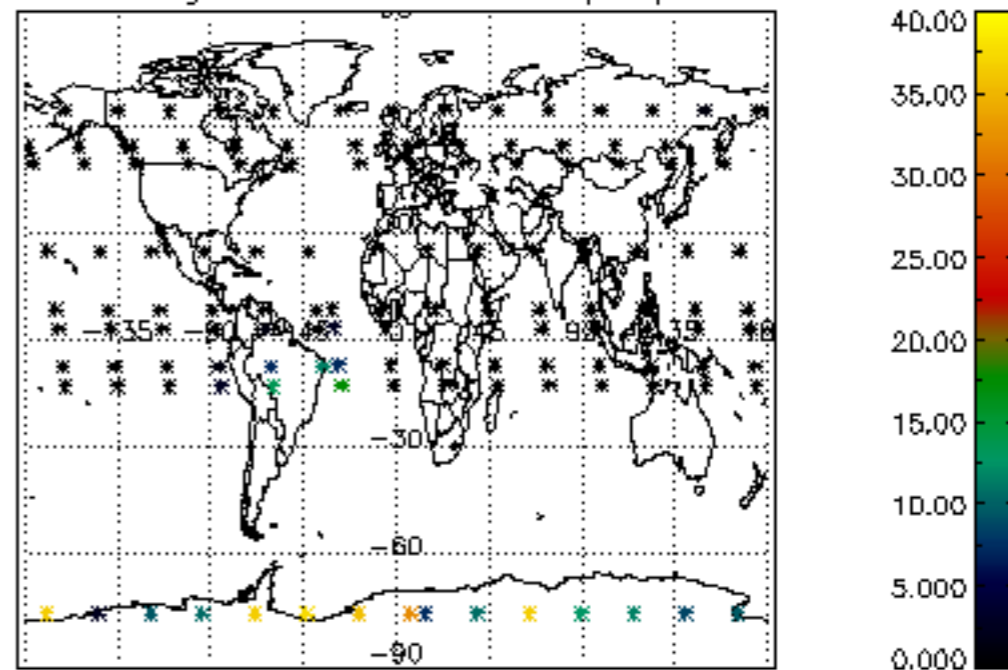
Percentage of datation errors per profile



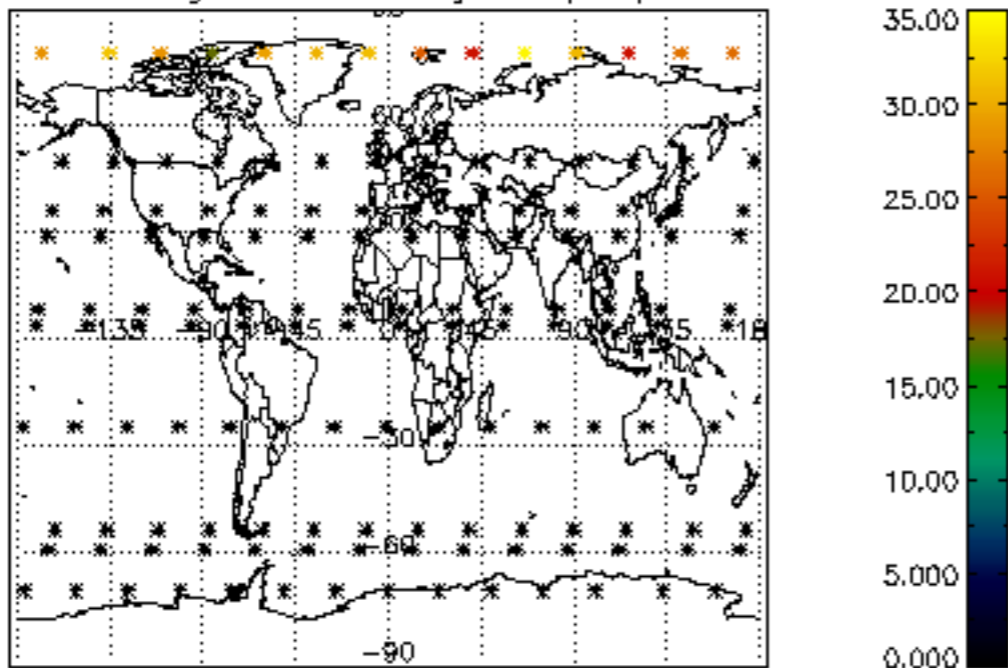
Percentage of star falling outside central band per profile



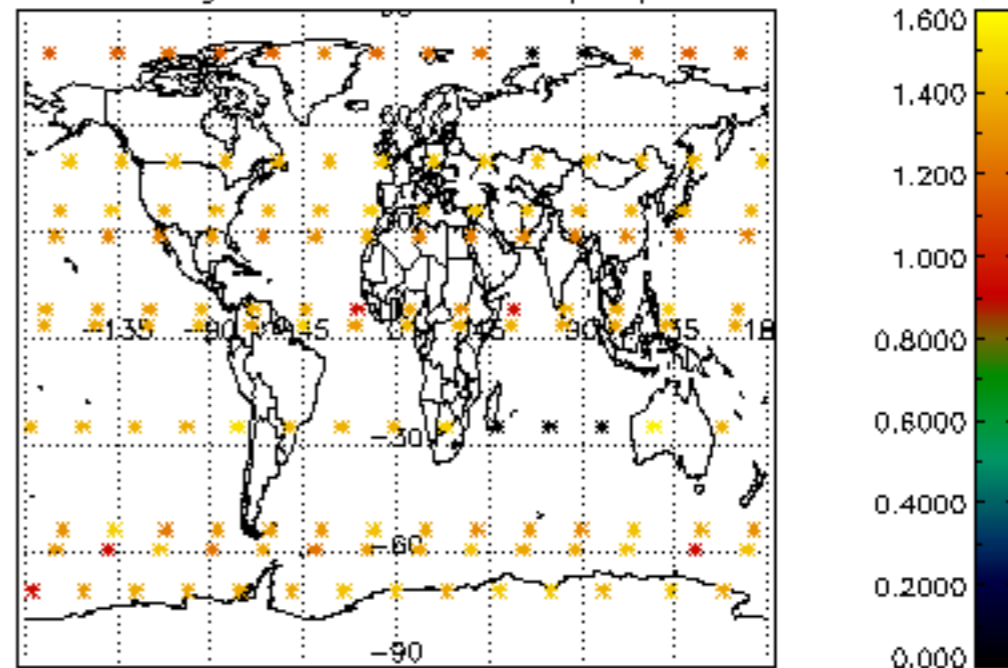
Percentage of saturation errors per profile



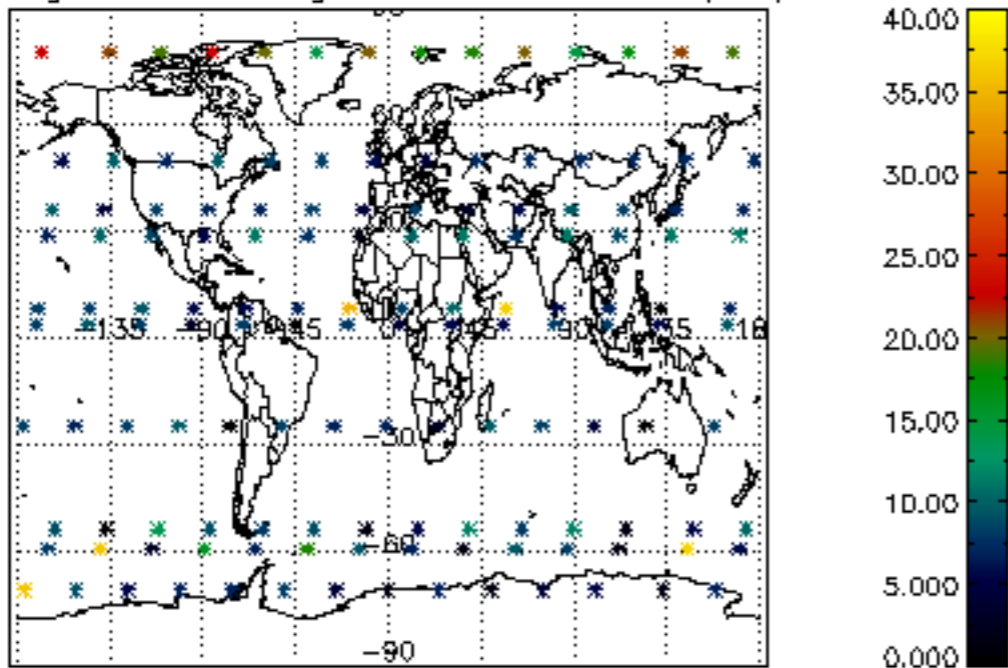
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

