

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 18:23:14
Data source version	GOMOS/6.01
Start time of products	03-08-2008 (03AUG2008 00:00:00)
Stop time of products	04-08-2008 (04AUG2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	268
Nb of prods with errors	1

2. Summary of processed GOM_NL__2P products.

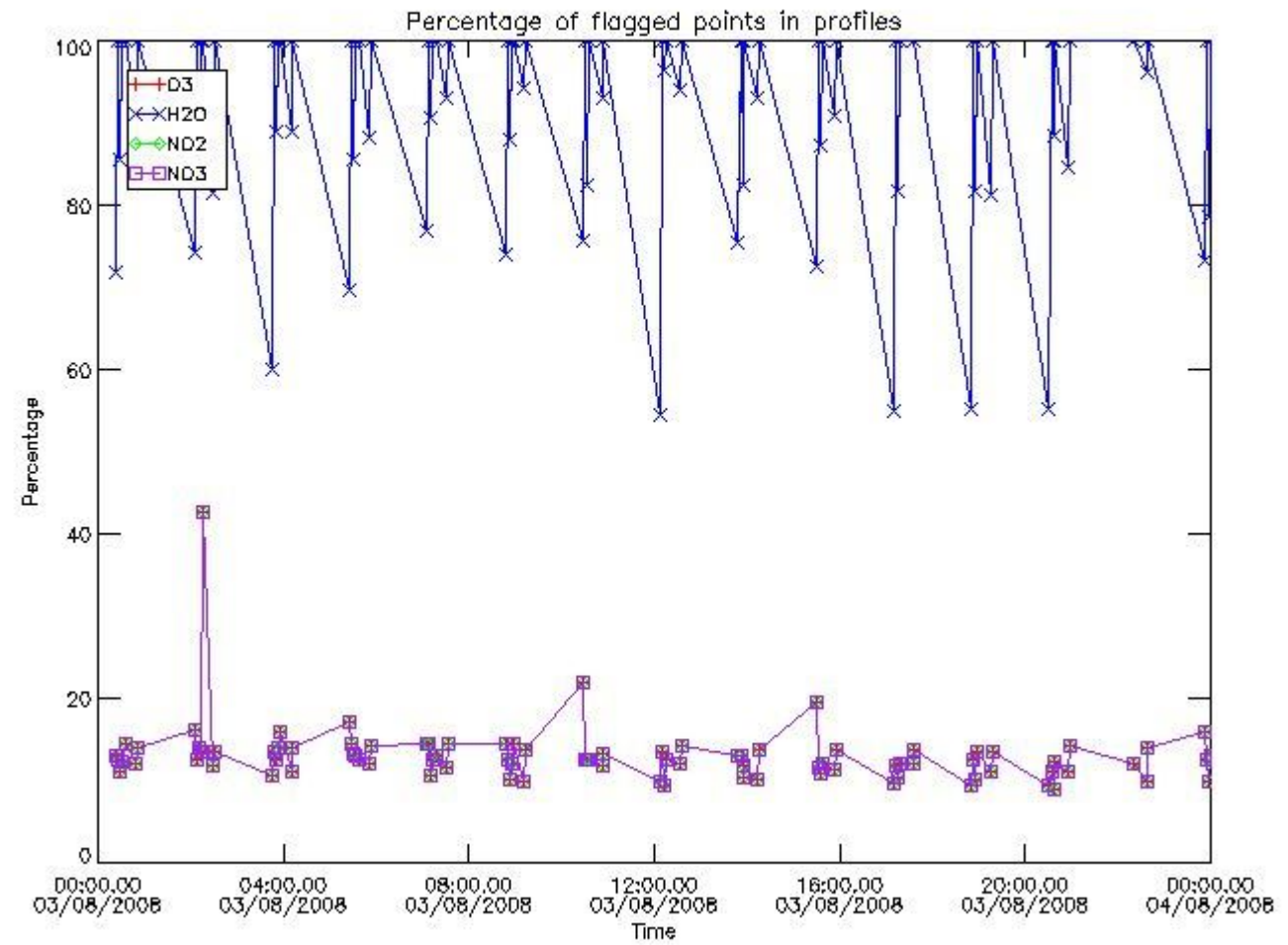
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20080803_000006_000000342070_00474_33594_2671.N1	03-AUG-2008 00:00:06	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	33594	No
2	GOM_NL__2PRFIN20080803_001247_000000422070_00474_33594_2672.N1	03-AUG-2008 00:12:47	Bright	42.000	6	13Alp Aur	0.080000	3400.0	84	33594	No
3	GOM_NL__2PRFIN20080803_001516_000000342070_00474_33594_2673.N1	03-AUG-2008 00:15:16	Bright	34.000	107	37The Aur	2.6490	11000.	68	33594	No
4	GOM_NL__2PRFIN20080803_001806_000000462070_00474_33594_2674.N1	03-AUG-2008 00:18:06	Bright	46.000	28	12Bet Tau	1.6500	15200.	92	33594	No
5	GOM_NL__2PRFIN20080803_002012_000000412070_00474_33594_2675.N1	03-AUG-2008 00:20:12	Twilight	41.000	176	23Zet Tau	3.0200	22000.	82	33594	No
6	GOM_NL__2PRFIN20080803_002353_000000402070_00474_33594_2676.N1	03-AUG-2008 00:23:53	Dark	39.500	14	58Alp Ori	0.87000	3000.0	79	33594	No
7	GOM_NL__2PRFIN20080803_002642_000000412070_00474_33594_2677.N1	03-AUG-2008 00:26:42	Dark	40.500	30	46Eps Ori	1.6940	30000.	81	33594	No
8	GOM_NL__2PRFIN20080803_002913_000000462070_00474_33594_2678.N1	03-AUG-2008 00:29:13	Dark	45.500	7	19Bet Ori	0.10000	14000.	91	33594	No
9	GOM_NL__2PRFIN20080803_003122_000000422070_00474_33594_2679.N1	03-AUG-2008 00:31:22	Dark	41.500	101	11Alp Lep	2.5820	7000.0	83	33594	No
10	GOM_NL__2PRFIN20080803_003532_000000392070_00474_33594_2680.N1	03-AUG-2008 00:35:32	Dark	39.000	108	Alp Col	2.6520	15200.	78	33594	No
11	GOM_NL__2PRFIN20080803_004851_000000422070_00475_33595_2680.N1	03-AUG-2008 00:48:51	Dark	42.000	9	Alp Eri	0.45300	24000.	84	33595	No
12	GOM_NL__2PRFIN20080803_005035_000000372070_00475_33595_2681.N1	03-AUG-2008 00:50:35	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	33595	No
13	GOM_NL__2PRFIN20080803_005534_000000422070_00475_33595_2682.N1	03-AUG-2008 00:55:34	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	33595	No
14	GOM_NL__2PRFIN20080803_005857_000000462070_00475_33595_2683.N1	03-AUG-2008 00:58:57	Straylight	45.500	31	Alp Gru	1.7340	15200.	91	33595	No
15	GOM_NL__2PRFIN20080803_010923_000000372070_00475_33595_2684.N1	03-AUG-2008 01:09:23	Bright	36.500	155	41Pi Sgr	2.9000	6600.0	73	33595	No
16	GOM_NL__2PRFIN20080803_011739_000000372070_00475_33595_2685.N1	03-AUG-2008 01:17:39	Bright	37.000	11	53Alp Aql	0.76500	8000.0	74	33595	No
17	GOM_NL__2PRFIN20080803_011909_000000352070_00475_33595_2686.N1	03-AUG-2008 01:19:09	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	33595	No
18	GOM_NL__2PRFIN20080803_012614_000000352070_00475_33595_2687.N1	03-AUG-2008 01:26:14	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	33595	No
19	GOM_NL__2PRFIN20080803_012810_000000382070_00475_33595_2688.N1	03-AUG-2008 01:28:10	Bright	37.500	144	18Del Cyg	2.8600	11000.	75	33595	No
20	GOM_NL__2PRFIN20080803_013004_000000382070_00475_33595_2689.N1	03-AUG-2008 01:30:04	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	33595	No
21	GOM_NL__2PRFIN20080803_014042_000000332070_00475_33595_2690.N1	03-AUG-2008 01:40:42	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	33595	No
22	GOM_NL__2PRFIN20080803_015322_000000432070_00475_33595_2691.N1	03-AUG-2008 01:53:22	Bright	42.500	6	13Alp Aur	0.080000	3400.0	85	33595	No
23	GOM_NL__2PRFIN20080803_015552_000000352070_00475_33595_2692.N1	03-AUG-2008 01:55:52	Bright	35.000	107	37The Aur	2.6490	11000.	70	33595	No
24	GOM_NL__2PRFIN20080803_015842_000000452070_00475_33595_2693.N1	03-AUG-2008 01:58:42	Bright	44.500	28	12Bet Tau	1.6500	15200.	89	33595	No
25	GOM_NL__2PRFIN20080803_020048_000000412070_00475_33595_2694.N1	03-AUG-2008 02:00:48	Twilight	41.000	176	23Zet Tau	3.0200	22000.	82	33595	No
26	GOM_NL__2PRFIN20080803_020430_000000412070_00475_33595_2695.N1	03-AUG-2008 02:04:30	Dark	41.000	14	58Alp Ori	0.87000	3000.0	82	33595	No
27	GOM_NL__2PRFIN20080803_020718_000000412070_00475_33595_2696.N1	03-AUG-2008 02:07:18	Dark	41.000	30	46Eps Ori	1.6940	30000.	82	33595	No
28	GOM_NL__2PRFIN20080803_020950_000000512070_00475_33595_2697.N1	03-AUG-2008 02:09:50	Dark	51.000	7	19Bet Ori	0.10000	14000.	102	33595	No
29	GOM_NL__2PRFIN20080803_021158_000000382070_00475_33595_2698.N1	03-AUG-2008 02:11:58	Dark	38.000	101	11Alp Lep	2.5820	7000.0	76	33595	No
30	GOM_NL__2PRFIN20080803_021608_000000412070_00475_33595_2699.N1	03-AUG-2008 02:16:08	Dark	40.500	108	Alp Col	2.6520	15200.	81	33595	No
31	GOM_NL__2PRFIN20080803_022927_000000442070_00476_33596_2676.N1	03-AUG-2008 02:29:27	Dark	43.500	9	Alp Eri	0.45300	24000.	87	33596	No
32	GOM_NL__2PRFIN20080803_023112_000000382070_00476_33596_2677.N1	03-AUG-2008 02:31:12	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	33596	No
33	GOM_NL__2PRFIN20080803_023610_000000472070_00476_33596_2678.N1	03-AUG-2008 02:36:10	Straylight	47.000	148	Alp Tuc	2.8780	4100.0	94	33596	No
34	GOM_NL__2PRFIN20080803_023934_000000432070_00476_33596_2679.N1	03-AUG-2008 02:39:34	Straylight	43.000	31	Alp Gru	1.7340	15200.	86	33596	No
35	GOM_NL__2PRFIN20080803_024959_000000362070_00476_33596_2680.N1	03-AUG-2008 02:49:59	Bright	36.000	155	41Pi Sgr	2.9000	6600.0	72	33596	No
36	GOM_NL__2PRFIN20080803_025815_000000382070_00476_33596_2681.N1	03-AUG-2008 02:58:15	Bright	37.500	11	53Alp Aql	0.76500	8000.0	75	33596	No
37	GOM_NL__2PRFIN20080803_025945_000000352070_00476_33596_2682.N1	03-AUG-2008 02:59:45	Bright	34.500	168	17Zet Aql	2.9860	11000.	69	33596	No
38	GOM_NL__2PRFIN20080803_030650_000000382070_00476_33596_2683.N1	03-AUG-2008 03:06:50	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	33596	No
39	GOM_NL__2PRFIN20080803_030846_000000362070_00476_33596_2684.N1	03-AUG-2008 03:08:46	Bright	35.500	144	18Del Cyg	2.8600	11000.	71	33596	No
40	GOM_NL__2PRFIN20080803_031040_000000362070_00476_33596_2685.N1	03-AUG-2008 03:10:40	Bright	35.500	69	33Gam Dra	2.2310	3800.0	71	33596	No
41	GOM_NL__2PRFIN20080803_032118_000000362070_00476_33596_2686.N1	03-AUG-2008 03:21:18	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	33596	No
42	GOM_NL__2PRFIN20080803_033359_000000412070_00476_33596_2687.N1	03-AUG-2008 03:33:59	Bright	41.000	6	13Alp Aur	0.080000	3400.0	82	33596	No

220	GOM_NL__2PRFIN20080803_184650_000000422070_00485_33605_2906.N1	03-AUG-2008 18:46:50	Twilight	41.500	176	23Zet Tau	3.0200	22000.	83	33605	No
221	GOM_NL__2PRFIN20080803_185032_000000542070_00485_33605_2907.N1	03-AUG-2008 18:50:32	Dark	54.000	14	58Alp Ori	0.87000	3000.0	108	33605	No
222	GOM_NL__2PRFIN20080803_185321_000000452070_00485_33605_2908.N1	03-AUG-2008 18:53:21	Dark	44.500	30	46Eps Ori	1.6940	30000.	89	33605	No
223	GOM_NL__2PRFIN20080803_185554_000000552070_00485_33605_2909.N1	03-AUG-2008 18:55:54	Dark	55.000	7	19Bet Ori	0.10000	14000.	110	33605	No
224	GOM_NL__2PRFIN20080803_185802_000000422070_00485_33605_2910.N1	03-AUG-2008 18:58:02	Dark	41.500	101	11Alp Lep	2.5820	7000.0	83	33605	No
225	GOM_NL__2PRFIN20080803_191534_000000462070_00486_33606_2906.N1	03-AUG-2008 19:15:34	Dark	45.500	9	Alp Eri	0.45300	24000.	91	33606	No
226	GOM_NL__2PRFIN20080803_191714_000000382070_00486_33606_2907.N1	03-AUG-2008 19:17:14	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	33606	No
227	GOM_NL__2PRFIN20080803_192214_000000402070_00486_33606_2908.N1	03-AUG-2008 19:22:14	Straylight	40.000	148	Alp Tuc	2.8780	4100.0	80	33606	No
228	GOM_NL__2PRFIN20080803_192538_000000502070_00486_33606_2909.N1	03-AUG-2008 19:25:38	Straylight	49.500	31	Alp Gru	1.7340	15200.	99	33606	No
229	GOM_NL__2PRFIN20080803_193600_000000372070_00486_33606_2910.N1	03-AUG-2008 19:36:00	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	33606	No
230	GOM_NL__2PRFIN20080803_194414_000000372070_00486_33606_2911.N1	03-AUG-2008 19:44:14	Bright	37.000	11	53Alp Aql	0.76500	8000.0	74	33606	No
231	GOM_NL__2PRFIN20080803_194545_000000342070_00486_33606_2912.N1	03-AUG-2008 19:45:45	Bright	34.000	168	17Zet Aql	2.9860	11000.	68	33606	No
232	GOM_NL__2PRFIN20080803_195251_000000522070_00486_33606_2913.N1	03-AUG-2008 19:52:51	Bright	52.000	5	3Alp Lyr	0.033000	11000.	104	33606	No
233	GOM_NL__2PRFIN20080803_195444_000000382070_00486_33606_2914.N1	03-AUG-2008 19:54:44	Bright	37.500	144	18Del Cyg	2.8600	11000.	75	33606	No
234	GOM_NL__2PRFIN20080803_195642_000000382070_00486_33606_2915.N1	03-AUG-2008 19:56:42	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	33606	No
235	GOM_NL__2PRFIN20080803_200717_000000372070_00486_33606_2916.N1	03-AUG-2008 20:07:17	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	33606	No
236	GOM_NL__2PRFIN20080803_201958_000000422070_00486_33606_2917.N1	03-AUG-2008 20:19:58	Bright	41.500	6	13Alp Aur	0.080000	3400.0	83	33606	No
237	GOM_NL__2PRFIN20080803_202228_000000342070_00486_33606_2918.N1	03-AUG-2008 20:22:28	Bright	34.000	107	37The Aur	2.6490	11000.	68	33606	No
238	GOM_NL__2PRFIN20080803_202519_000000452070_00486_33606_2919.N1	03-AUG-2008 20:25:19	Bright	44.500	28	12Bet Tau	1.6500	15200.	89	33606	No
239	GOM_NL__2PRFIN20080803_202726_000000412070_00486_33606_2920.N1	03-AUG-2008 20:27:26	Twilight	40.500	176	23Zet Tau	3.0200	22000.	81	33606	No
240	GOM_NL__2PRFIN20080803_203108_000000542070_00486_33606_2921.N1	03-AUG-2008 20:31:08	Dark	54.000	14	58Alp Ori	0.87000	3000.0	108	33606	No
241	GOM_NL__2PRFIN20080803_203357_000000462070_00486_33606_2922.N1	03-AUG-2008 20:33:57	Dark	45.500	30	46Eps Ori	1.6940	30000.	91	33606	No
242	GOM_NL__2PRFIN20080803_203630_000000572070_00486_33606_2923.N1	03-AUG-2008 20:36:30	Dark	57.000	7	19Bet Ori	0.10000	14000.	114	33606	No
243	GOM_NL__2PRFIN20080803_203838_000000422070_00486_33606_2924.N1	03-AUG-2008 20:38:38	Dark	41.500	101	11Alp Lep	2.5820	7000.0	83	33606	No
244	GOM_NL__2PRFIN20080803_205610_000000462070_00487_33607_2922.N1	03-AUG-2008 20:56:10	Dark	45.500	9	Alp Eri	0.45300	24000.	91	33607	No
245	GOM_NL__2PRFIN20080803_205750_000000362070_00487_33607_2923.N1	03-AUG-2008 20:57:50	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	33607	No
246	GOM_NL__2PRFIN20080803_210250_000000392070_00487_33607_2924.N1	03-AUG-2008 21:02:50	Straylight	39.000	148	Alp Tuc	2.8780	4100.0	78	33607	No
247	GOM_NL__2PRFIN20080803_210614_000000432070_00487_33607_2925.N1	03-AUG-2008 21:06:14	Straylight	42.500	31	Alp Gru	1.7340	15200.	85	33607	No
248	GOM_NL__2PRFIN20080803_221707_000000492070_00487_33607_2926.N1	03-AUG-2008 22:17:07	Dark	49.000	7	19Bet Ori	0.10000	14000.	98	33607	Yes
249	GOM_NL__2PRFIN20080803_221914_000000432070_00487_33607_2927.N1	03-AUG-2008 22:19:14	Dark	42.500	101	11Alp Lep	2.5820	7000.0	85	33607	No
250	GOM_NL__2PRFIN20080803_223647_000000522070_00488_33608_2935.N1	03-AUG-2008 22:36:47	Dark	51.500	9	Alp Eri	0.45300	24000.	103	33608	No
251	GOM_NL__2PRFIN20080803_223826_000000372070_00488_33608_2936.N1	03-AUG-2008 22:38:26	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	33608	No
252	GOM_NL__2PRFIN20080803_224326_000000392070_00488_33608_2937.N1	03-AUG-2008 22:43:26	Straylight	39.000	148	Alp Tuc	2.8780	4100.0	78	33608	No
253	GOM_NL__2PRFIN20080803_224651_000000432070_00488_33608_2938.N1	03-AUG-2008 22:46:51	Straylight	43.000	31	Alp Gru	1.7340	15200.	86	33608	No
254	GOM_NL__2PRFIN20080803_225712_000000372070_00488_33608_2939.N1	03-AUG-2008 22:57:12	Bright	36.500	155	41Pi Sgr	2.9000	6600.0	73	33608	No
255	GOM_NL__2PRFIN20080803_230526_000000372070_00488_33608_2940.N1	03-AUG-2008 23:05:26	Bright	36.500	11	53Alp Aql	0.76500	8000.0	73	33608	No
256	GOM_NL__2PRFIN20080803_230657_000000352070_00488_33608_2941.N1	03-AUG-2008 23:06:57	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	33608	No
257	GOM_NL__2PRFIN20080803_231403_000000392070_00488_33608_2942.N1	03-AUG-2008 23:14:03	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	33608	No
258	GOM_NL__2PRFIN20080803_231555_000000352070_00488_33608_2943.N1	03-AUG-2008 23:15:55	Bright	35.000	144	18Del Cyg	2.8600	11000.	70	33608	No
259	GOM_NL__2PRFIN20080803_231754_000000372070_00488_33608_2944.N1	03-AUG-2008 23:17:54	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	33608	No
260	GOM_NL__2PRFIN20080803_232829_000000342070_00488_33608_2945.N1	03-AUG-2008 23:28:29	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	33608	No
261	GOM_NL__2PRFIN20080803_234110_000000432070_00488_33608_2946.N1	03-AUG-2008 23:41:10	Bright	43.000	6	13Alp Aur	0.080000	3400.0	86	33608	No
262	GOM_NL__2PRFIN20080803_234340_000000412070_00488_33608_2947.N1	03-AUG-2008 23:43:40	Bright	40.500	107	37The Aur	2.6490	11000.	81	33608	No
263	GOM_NL__2PRFIN20080803_234631_000000442070_00488_33608_2948.N1	03-AUG-2008 23:46:31	Bright	44.000	28	12Bet Tau	1.6500	15200.	88	33608	No
264	GOM_NL__2PRFIN20080803_234838_000000412070_00488_33608_2949.N1	03-AUG-2008 23:48:38	Twilight	41.000	176	23Zet Tau	3.0200	22000.	82	33608	No
265	GOM_NL__2PRFIN20080803_235220_000000422070_00488_33608_2950.N1	03-AUG-2008 23:52:20	Dark	41.500	14	58Alp Ori	0.87000	3000.0	83	33608	No
266	GOM_NL__2PRFIN20080803_235510_000000412070_00488_33608_2951.N1	03-AUG-2008 23:55:10	Dark	40.500	30	46Eps Ori	1.6940	30000.	81	33608	No
267	GOM_NL__2PRFIN20080803_235743_000000522070_00488_33608_2952.N1	03-AUG-2008 23:57:43	Dark	51.500	7	19Bet Ori	0.10000	14000.	103	33608	No
268	GOM_NL__2PRFIN20080803_235951_000000392070_00488_33608_2953.N1	03-AUG-2008 23:59:51	Dark	39.000	101	11Alp Lep	2.5820	7000.0	78	33608	No

3. Quality information per product

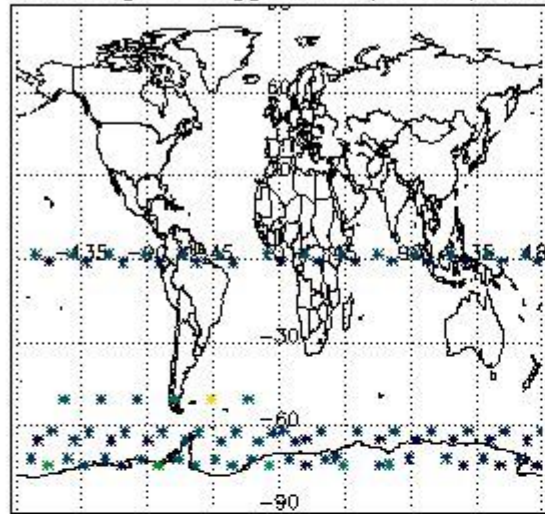
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

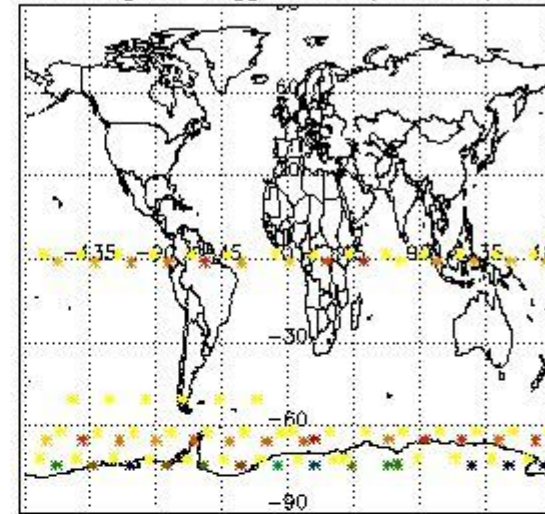


3.2 Plot quality information per product (world map)

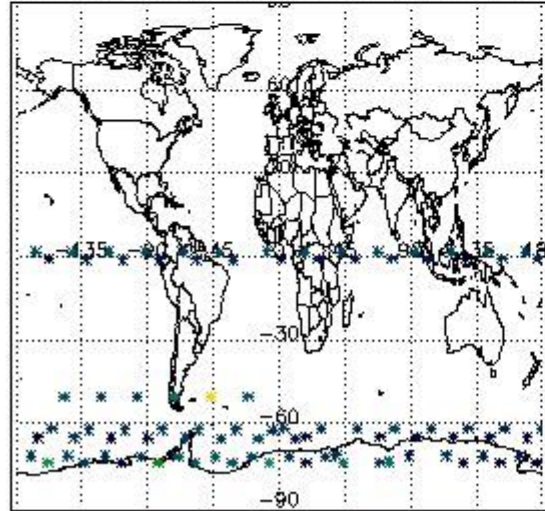
Percentage of flagged data per O3 profile



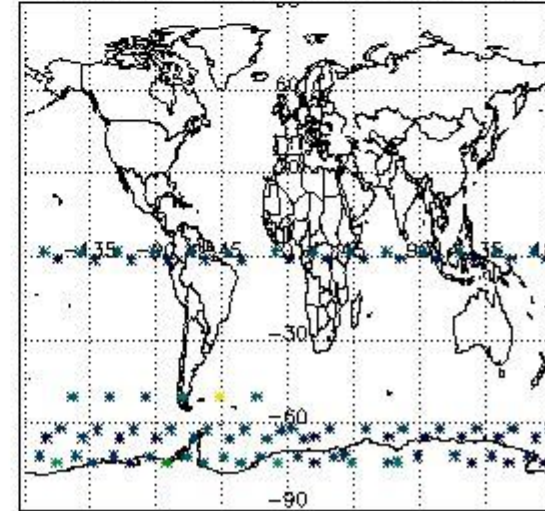
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

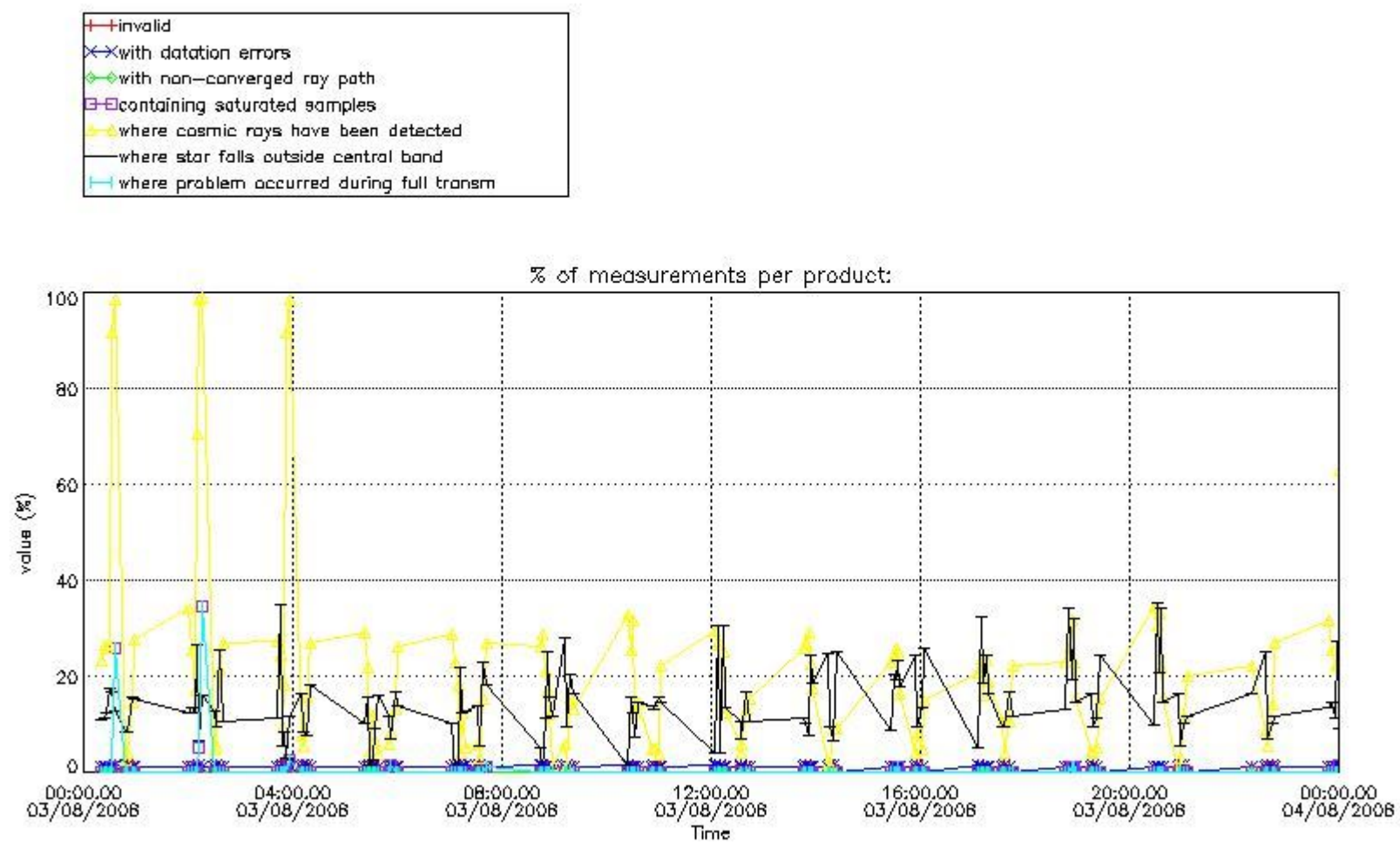


4. Level 1 quality information per product

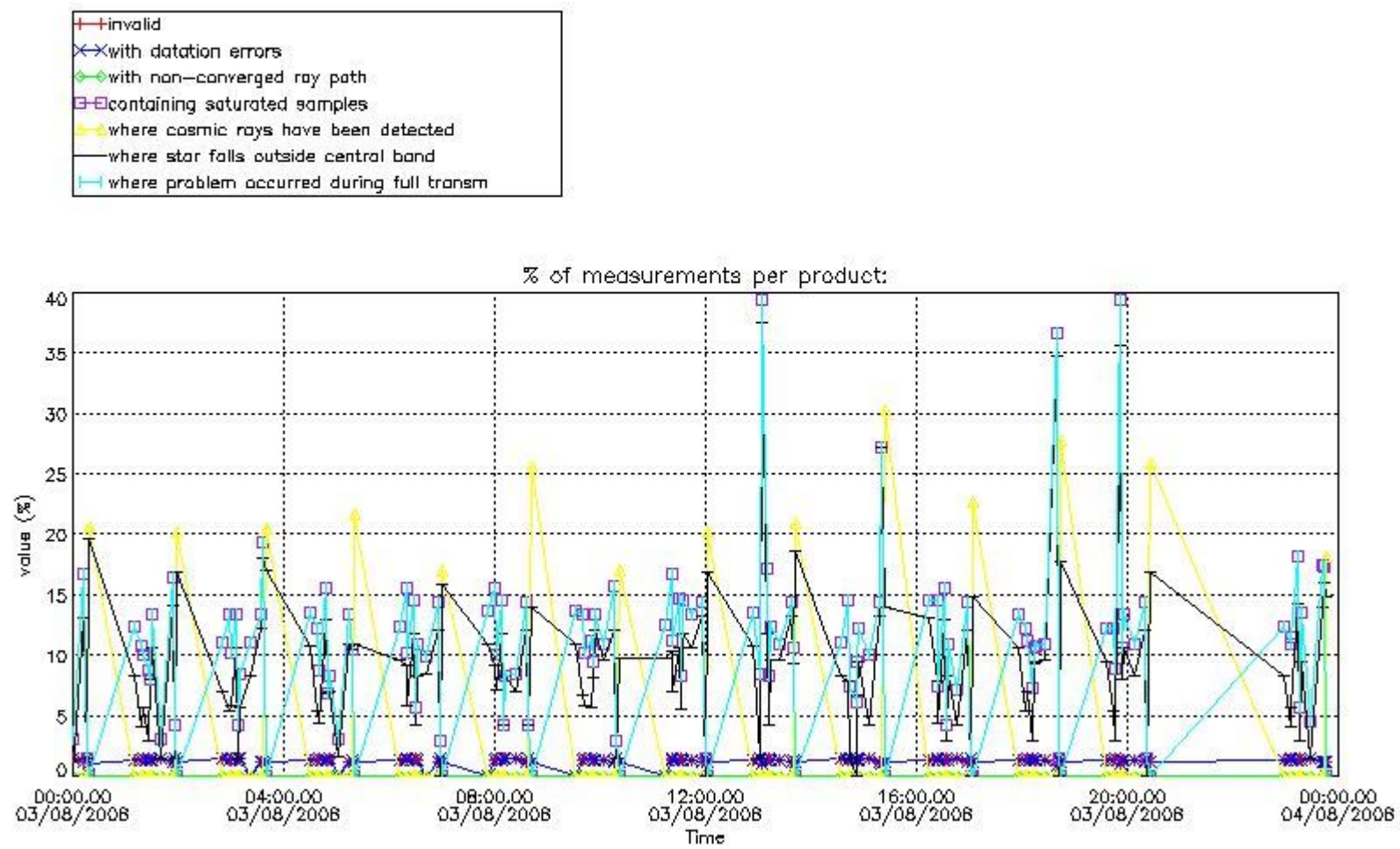
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



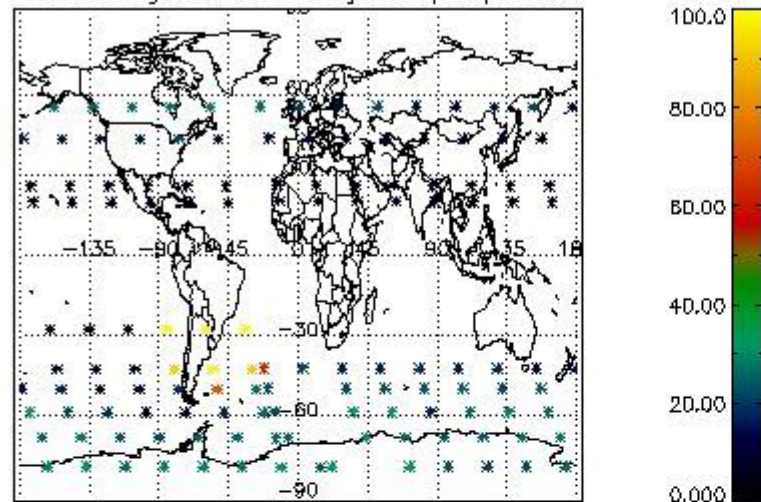
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



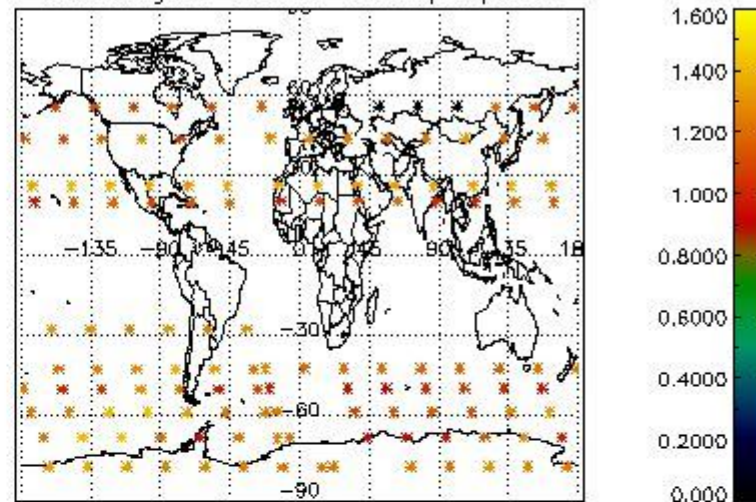
4.2 Plot quality information per product coming from level 1b processing (world map)

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

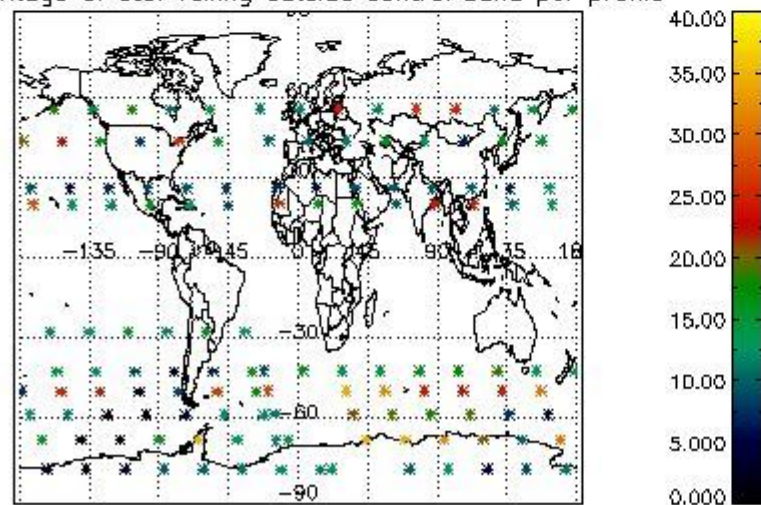
Percentage of cosmic ray hits per profile



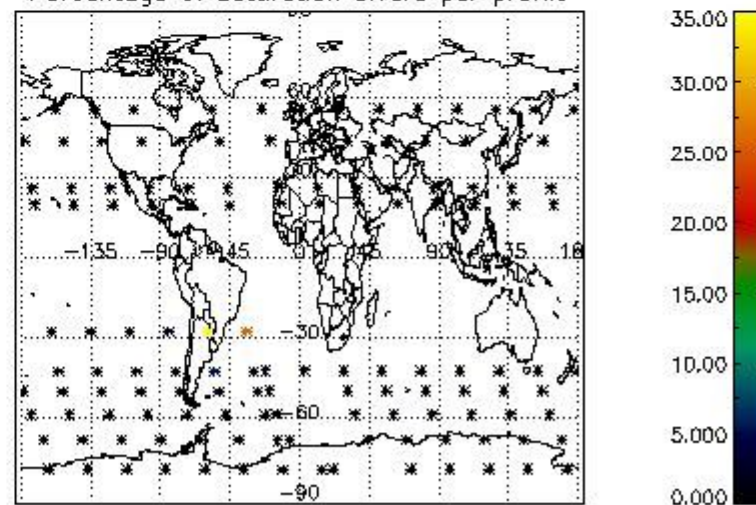
Percentage of datation errors per profile



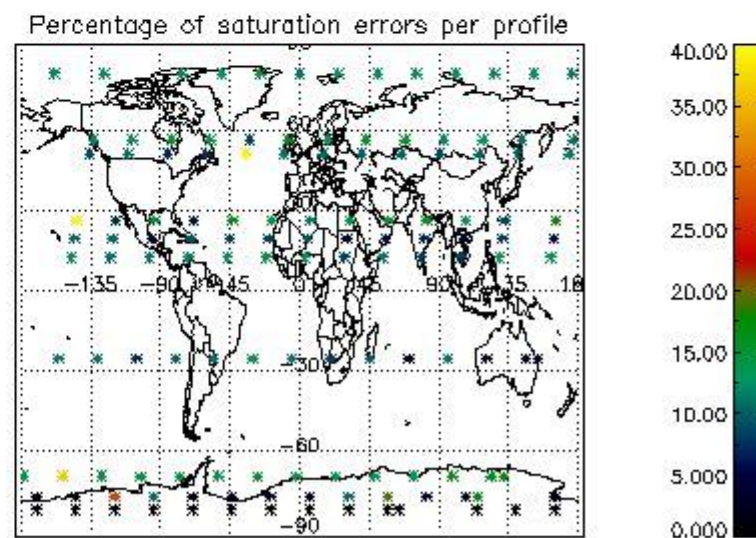
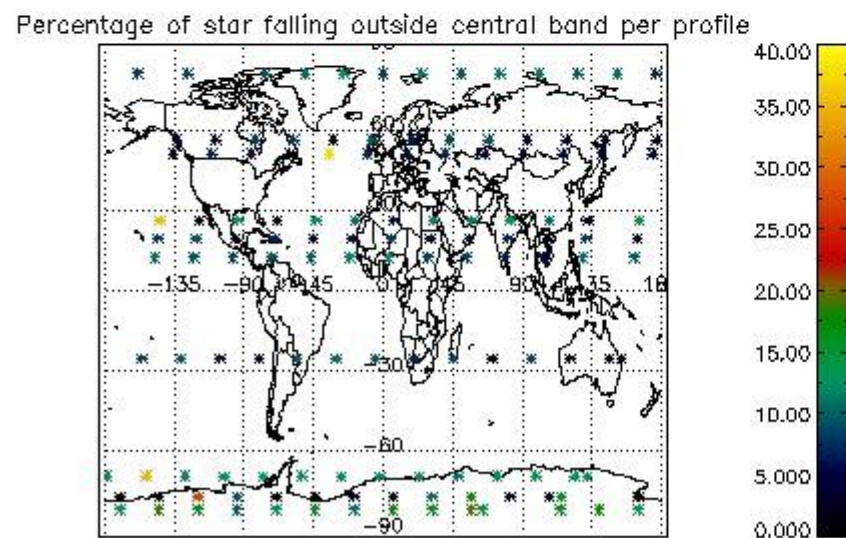
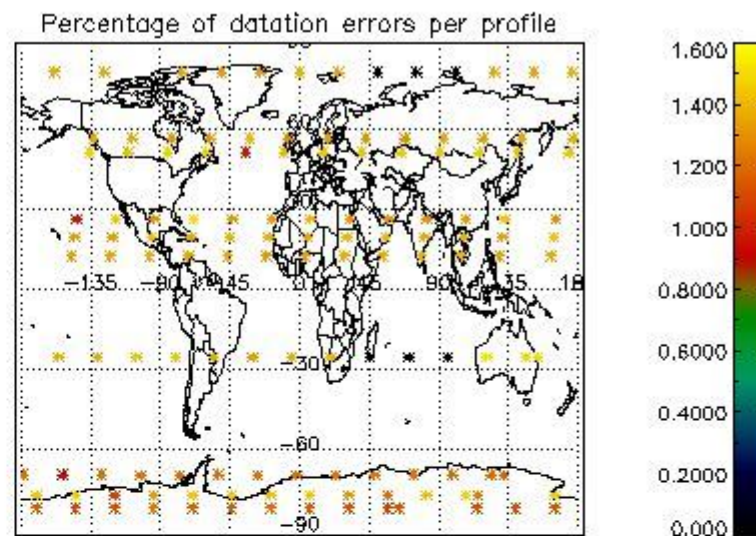
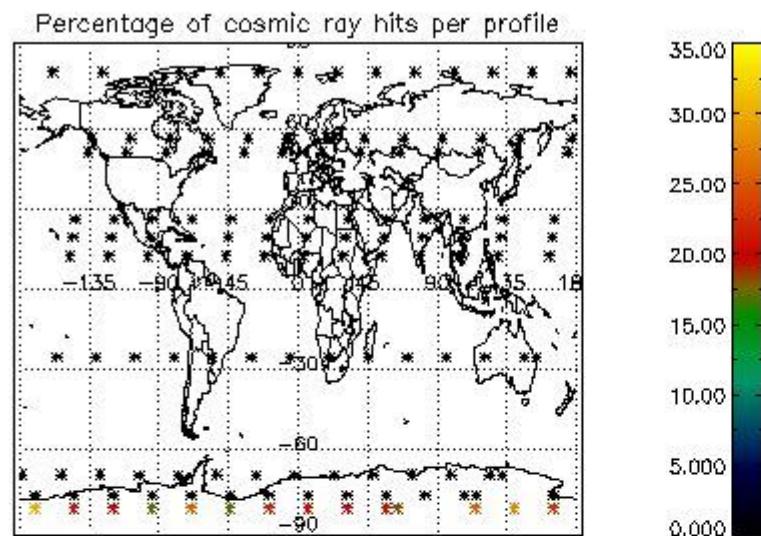
Percentage of star falling outside central band per profile



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

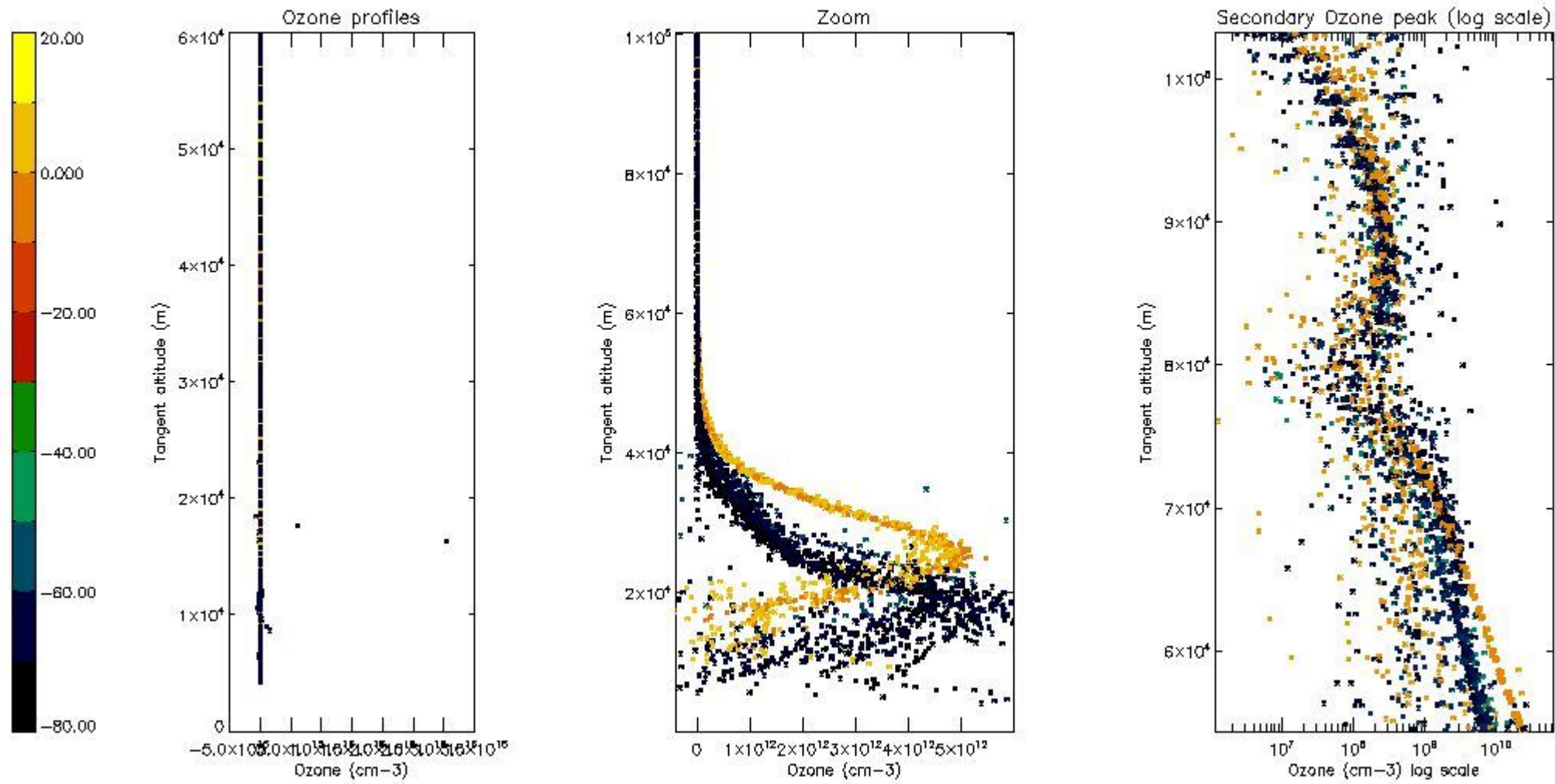
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	37
STD < 20	19

STD < 10	14
STD < 5	10

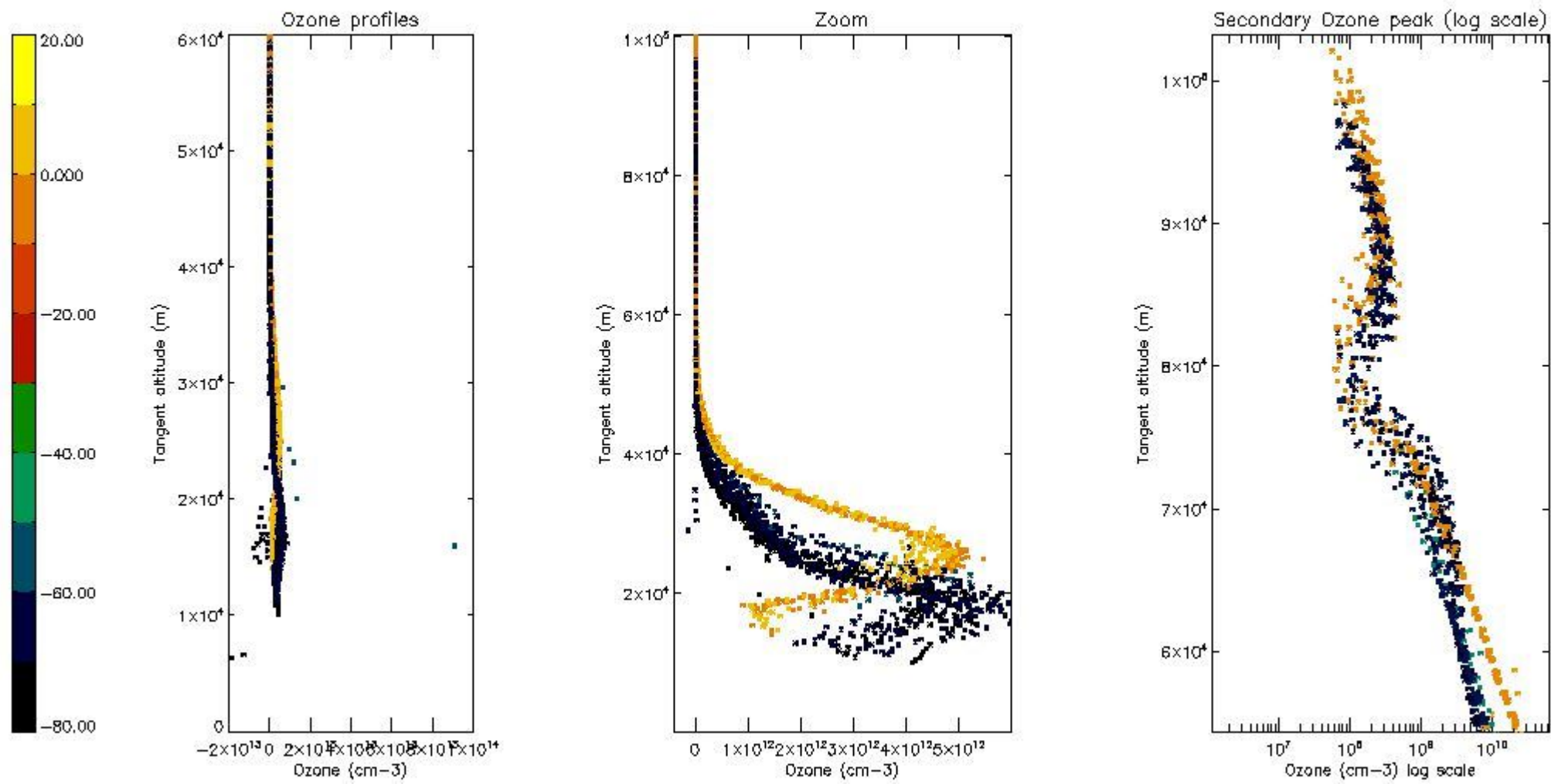
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



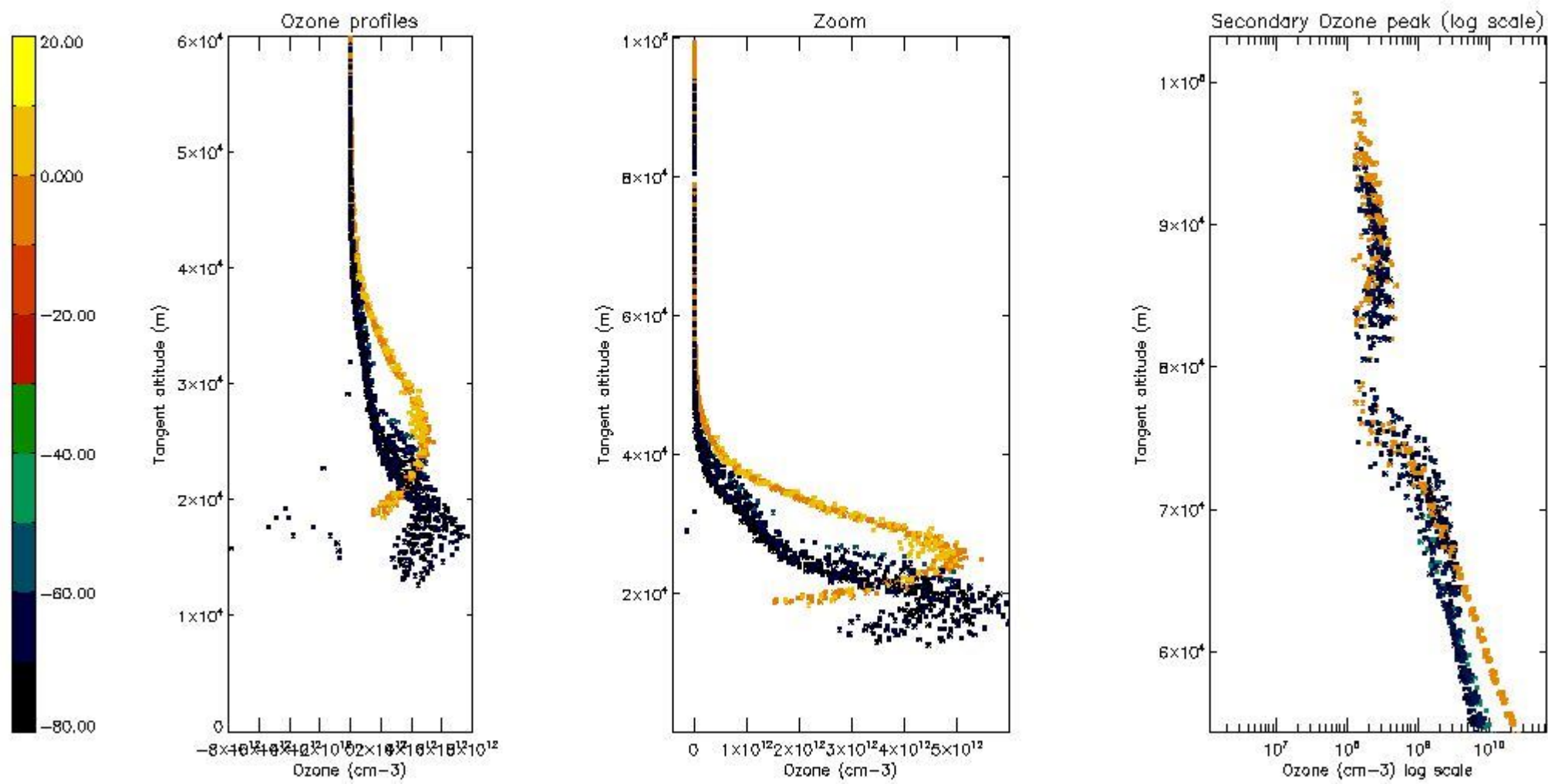
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



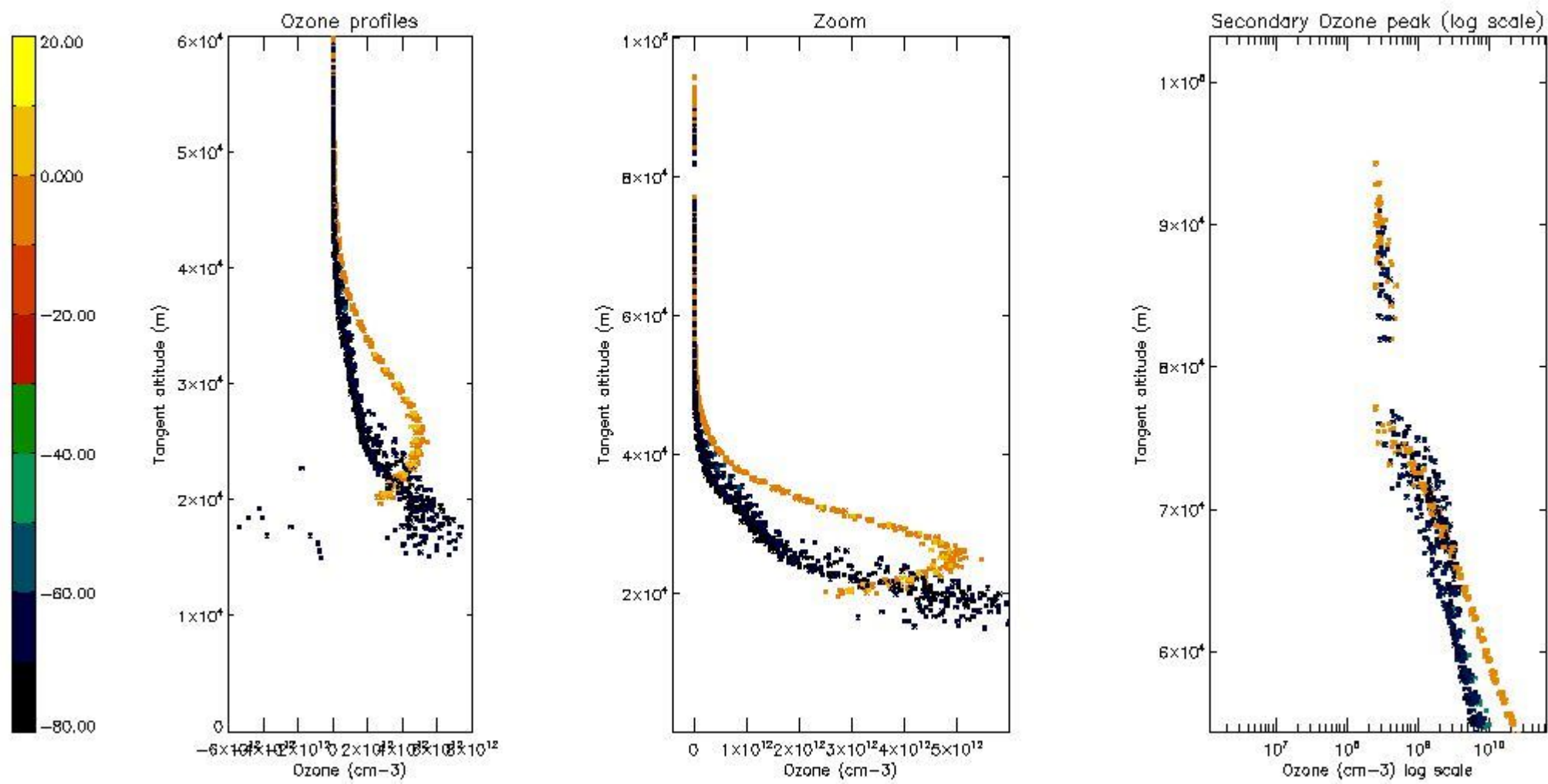
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



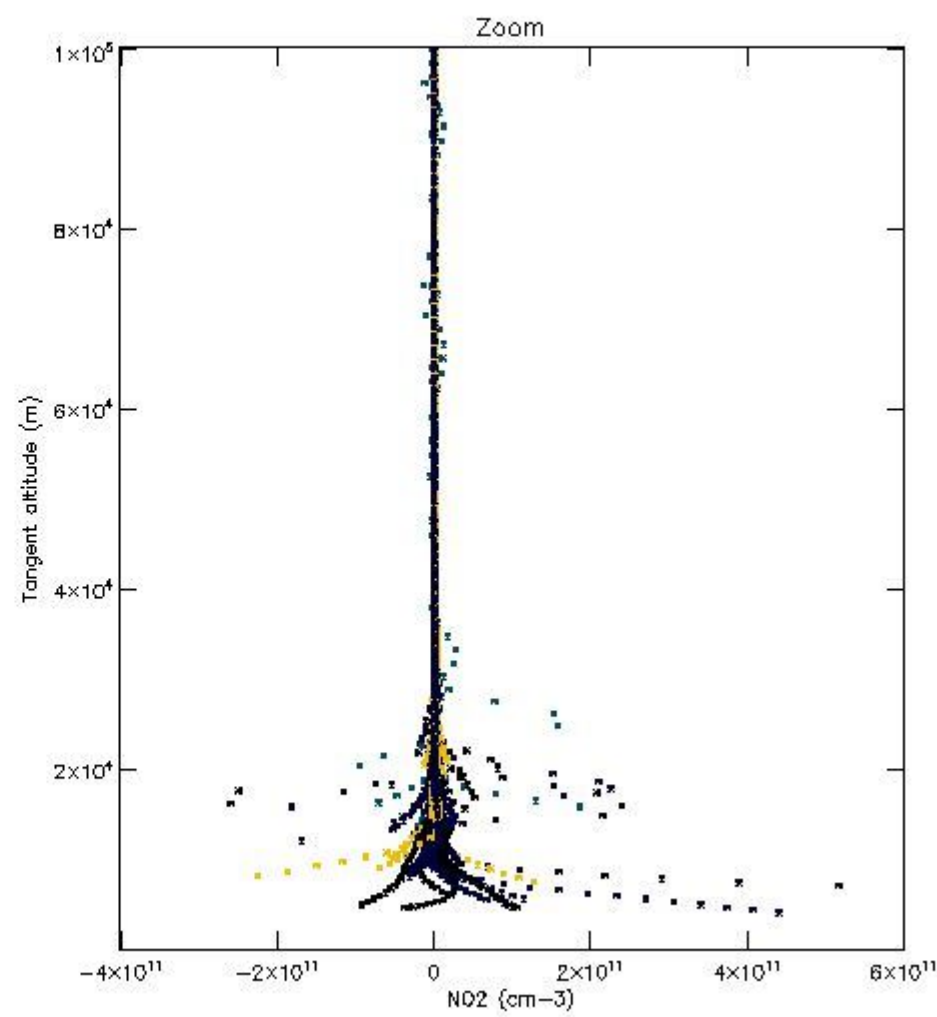
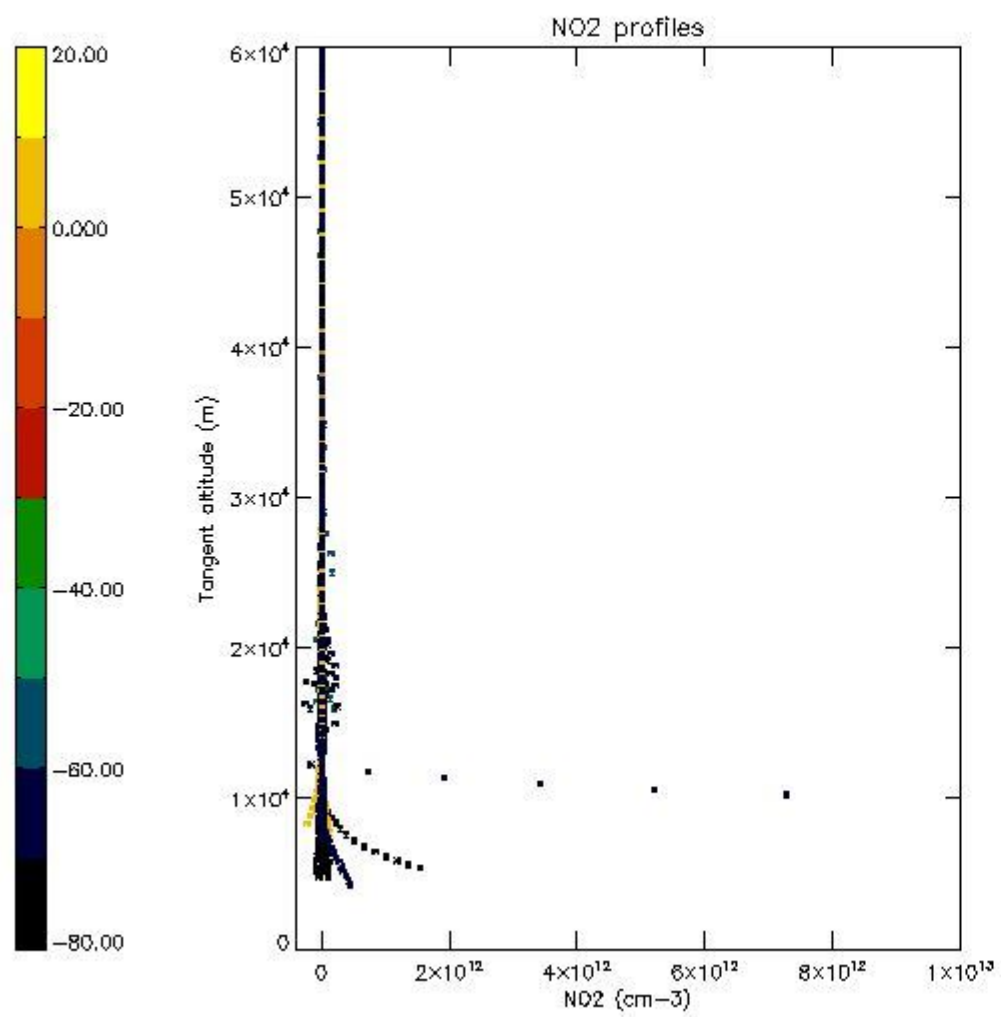
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



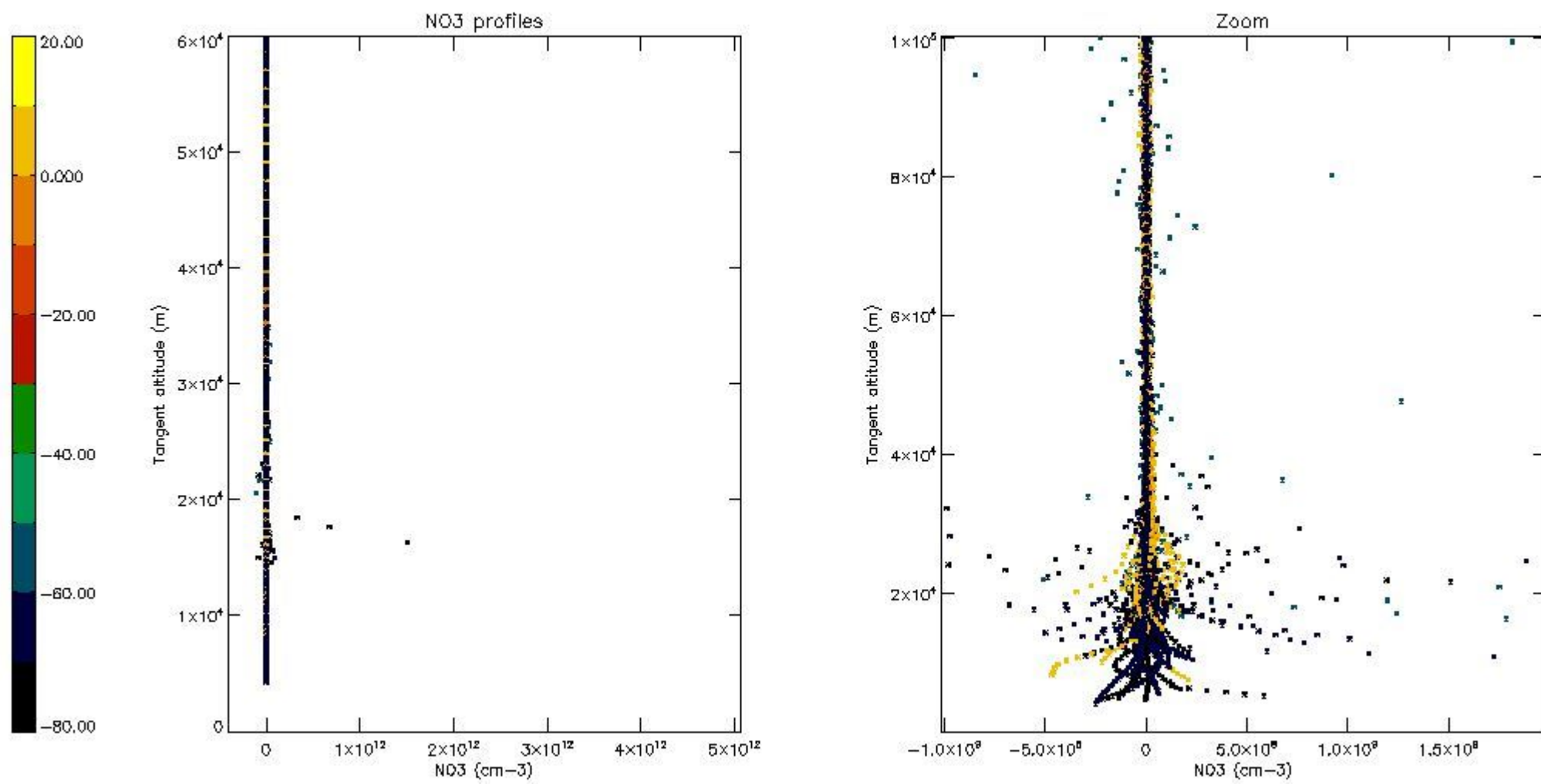
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



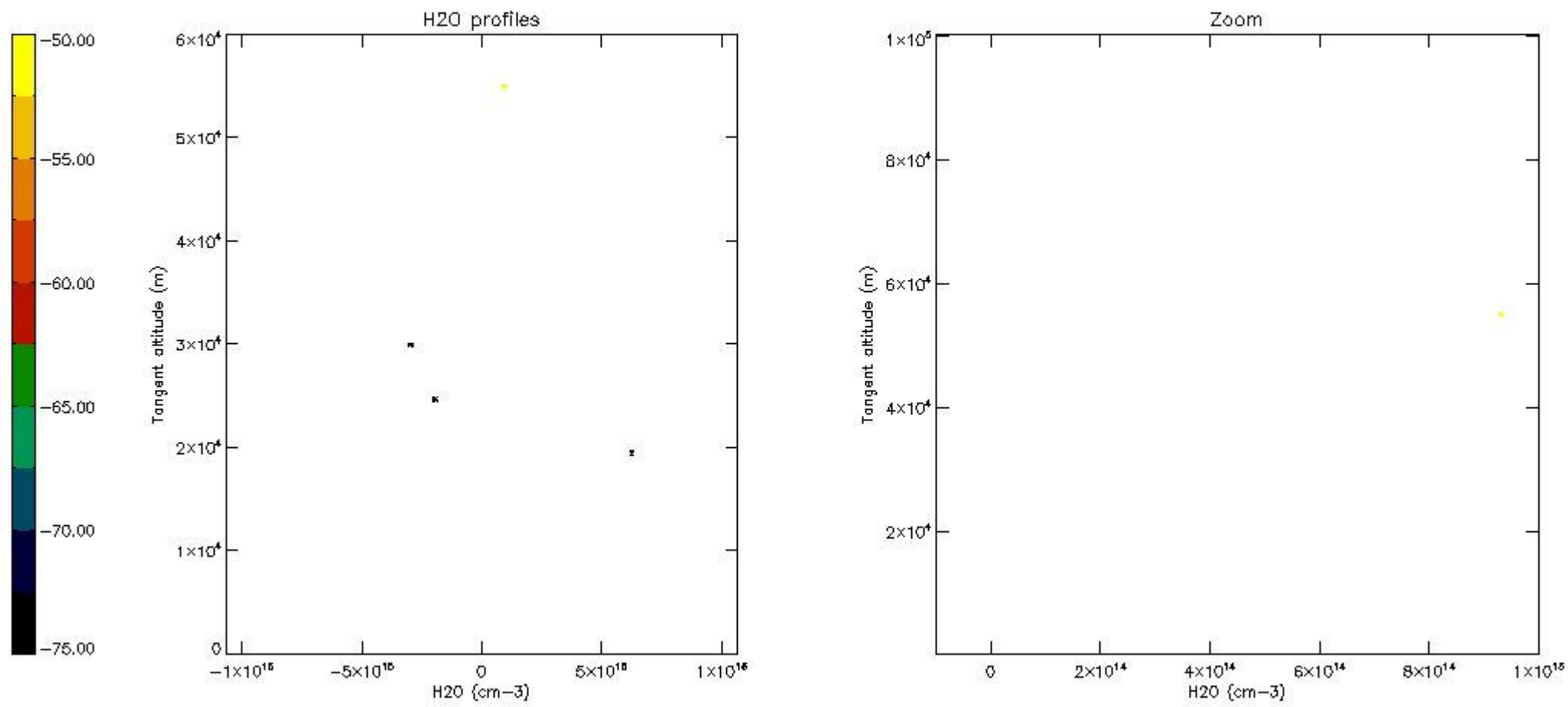
5.7 Plot NO3 profiles for all STD (dark without errors)

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	03-AUG-2008 00:00:06
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	03-AUG-2008 00:00:06
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	03-AUG-2008 00:00:06

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

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[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](#)

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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](#)

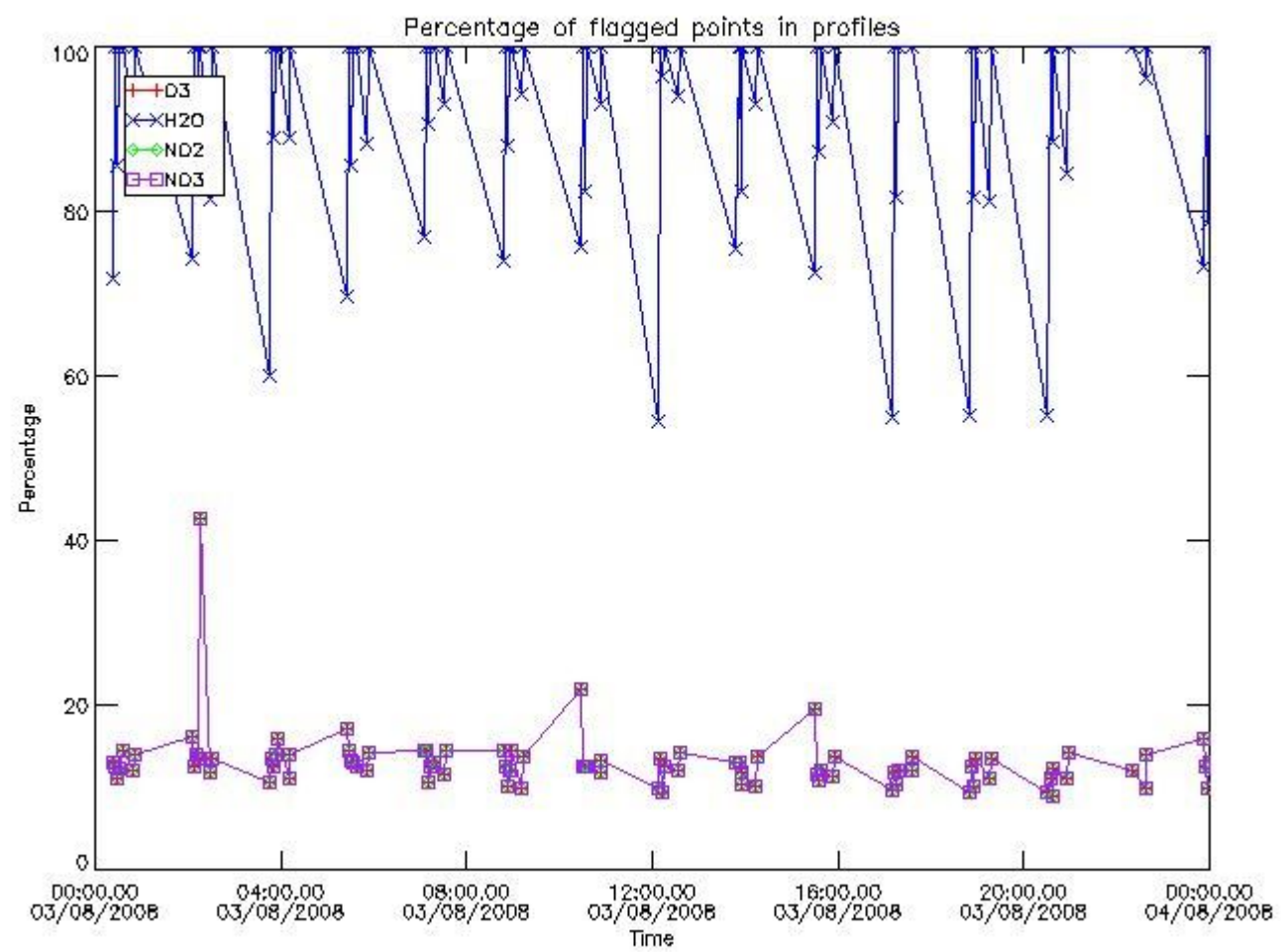
[6. Auxiliary Data Files used for the production reported in section 2](#)

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	25APR2013 18:23:14
Data source version	GOMOS/6.01
Start time of products	03-08-2008 (03AUG2008 00:00:00)
Stop time of products	04-08-2008 (04AUG2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	268
Nb of prods with errors	1

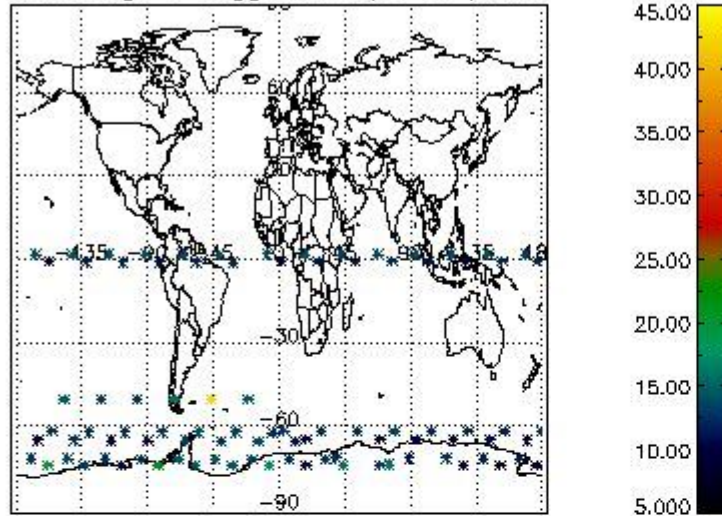
2. Summary of processed GOM_NL__2P products.

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20080803_000006_000000342070_00474_33594_2671.N1	03-AUG-2008 00:00:06	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	33594	No
2	GOM_NL__2PRFIN20080803_001247_000000422070_00474_33594_2672.N1	03-AUG-2008 00:12:47	Bright	42.000	6	13Alp Aur	0.080000	3400.0	84	33594	No
3	GOM_NL__2PRFIN20080803_001516_000000342070_00474_33594_2673.N1	03-AUG-2008 00:15:16	Bright	34.000	107	37The Aur	2.6490	11000.	68	33594	No
4	GOM_NL__2PRFIN20080803_001806_000000462070_00474_33594_2674.N1	03-AUG-2008 00:18:06	Bright	46.000	28	12Bet Tau	1.6500	15200.	92	33594	No
5	GOM_NL__2PRFIN20080803_002012_000000412070_00474_33594_2675.N1	03-AUG-2008 00:20:12	Twilight	41.000	176	23Zet Tau	3.0200	22000.	82	33594	No
6	GOM_NL__2PRFIN20080803_002353_000000402070_00474_33594_2676.N1	03-AUG-2008 00:23:53	Dark	39.500	14	58Alp Ori	0.87000	3000.0	79	33594	No
7	GOM_NL__2PRFIN20080803_002642_000000412070_00474_33594_2677.N1	03-AUG-2008 00:26:42	Dark	40.500	30	46Eps Ori	1.6940	30000.	81	33594	No
8	GOM_NL__2PRFIN20080803_002913_000000462070_00474_33594_2678.N1	03-AUG-2008 00:29:13	Dark	45.500	7	19Bet Ori	0.10000	14000.	91	33594	No
9	GOM_NL__2PRFIN20080803_003122_000000422070_00474_33594_2679.N1	03-AUG-2008 00:31:22	Dark	41.500	101	11Alp Lep	2.5820	7000.0	83	33594	No
10	GOM_NL__2PRFIN20080803_003532_000000392070_00474_33594_2680.N1	03-AUG-2008 00:35:32	Dark	39.000	108	Alp Col	2.6520	15200.	78	33594	No
11	GOM_NL__2PRFIN20080803_004851_000000422070_00475_33595_2680.N1	03-AUG-2008 00:48:51	Dark	42.000	9	Alp Eri	0.45300	24000.	84	33595	No
12	GOM_NL__2PRFIN20080803_005035_000000372070_00475_33595_2681.N1	03-AUG-2008 00:50:35	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	33595	No
13	GOM_NL__2PRFIN20080803_005534_000000422070_00475_33595_2682.N1	03-AUG-2008 00:55:34	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	33595	No
14	GOM_NL__2PRFIN20080803_005857_000000462070_00475_33595_2683.N1	03-AUG-2008 00:58:57	Straylight	45.500	31	Alp Gru	1.7340	15200.	91	33595	No
15	GOM_NL__2PRFIN20080803_010923_000000372070_00475_33595_2684.N1	03-AUG-2008 01:09:23	Bright	36.500	155	41Pi Sgr	2.9000	6600.0	73	33595	No
16	GOM_NL__2PRFIN20080803_011739_000000372070_00475_33595_2685.N1	03-AUG-2008 01:17:39	Bright	37.000	11	53Alp Aql	0.76500	8000.0	74	33595	No
17	GOM_NL__2PRFIN20080803_011909_000000352070_00475_33595_2686.N1	03-AUG-2008 01:19:09	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	33595	No
18	GOM_NL__2PRFIN20080803_012614_000000352070_00475_33595_2687.N1	03-AUG-2008 01:26:14	Bright	34.500	5	3Alp Lyr	0.033000	11000.	69	33595	No
19	GOM_NL__2PRFIN20080803_012810_000000382070_00475_33595_2688.N1	03-AUG-2008 01:28:10	Bright	37.500	144	18Del Cyg	2.8600	11000.	75	33595	No
20	GOM_NL__2PRFIN20080803_013004_000000382070_00475_33595_2689.N1	03-AUG-2008 01:30:04	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	33595	No
21	GOM_NL__2PRFIN20080803_014042_000000332070_00475_33595_2690.N1	03-AUG-2008 01:40:42	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	33595	No
22	GOM_NL__2PRFIN20080803_015322_000000432070_00475_33595_2691.N1	03-AUG-2008 01:53:22	Bright	42.500	6	13Alp Aur	0.080000	3400.0	85	33595	No
23	GOM_NL__2PRFIN20080803_015552_000000352070_00475_33595_2692.N1	03-AUG-2008 01:55:52	Bright	35.000	107	37The Aur	2.6490	11000.	70	33595	No
24	GOM_NL__2PRFIN20080803_015842_000000452070_00475_33595_2693.N1	03-AUG-2008 01:58:42	Bright	44.500	28	12Bet Tau	1.6500	15200.	89	33595	No
25	GOM_NL__2PRFIN20080803_020048_000000412070_00475_33595_2694.N1	03-AUG-2008 02:00:48	Twilight	41.000	176	23Zet Tau	3.0200	22000.	82	33595	No
26	GOM_NL__2PRFIN20080803_020430_000000412070_00475_33595_2695.N1	03-AUG-2008 02:04:30	Dark	41.000	14	58Alp Ori	0.87000	3000.0	82	33595	No
27	GOM_NL__2PRFIN20080803_020718_000000412070_00475_33595_2696.N1	03-AUG-2008 02:07:18	Dark	41.000	30	46Eps Ori	1.6940	30000.	82	33595	No
28	GOM_NL__2PRFIN20080803_020950_000000512070_00475_33595_2697.N1	03-AUG-2008 02:09:50	Dark	51.000	7	19Bet Ori	0.10000	14000.	102	33595	No
29	GOM_NL__2PRFIN20080803_021158_000000382070_00475_33595_2698.N1	03-AUG-2008 02:11:58	Dark	38.000	101	11Alp Lep	2.5820	7000.0	76	33595	No
30	GOM_NL__2PRFIN20080803_021608_000000412070_00475_33595_2699.N1	03-AUG-2008 02:16:08	Dark	40.500	108	Alp Col	2.6520	15200.	81	33595	No
31	GOM_NL__2PRFIN20080803_022927_000000442070_00476_33596_2676.N1	03-AUG-2008 02:29:27	Dark	43.500	9	Alp Eri	0.45300	24000.	87	33596	No
32	GOM_NL__2PRFIN20080803_023112_000000382070_00476_33596_2677.N1	03-AUG-2008 02:31:12	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	33596	No
33	GOM_NL__2PRFIN20080803_023610_000000472070_00476_33596_2678.N1	03-AUG-2008 02:36:10	Straylight	47.000	148	Alp Tuc	2.8780	4100.0	94	33596	No
34	GOM_NL__2PRFIN20080803_023934_000000432070_00476_33596_2679.N1	03-AUG-2008 02:39:34	Straylight	43.000	31	Alp Gru	1.7340	15200.	86	33596	No
35	GOM_NL__2PRFIN20080803_024959_000000362070_00476_33596_2680.N1	03-AUG-2008 02:49:59	Bright	36.000	155	41Pi Sgr	2.9000	6600.0	72	33596	No
36	GOM_NL__2PRFIN20080803_025815_000000382070_00476_33596_2681.N1	03-AUG-2008 02:58:15	Bright	37.500	11	53Alp Aql	0.76500	8000.0	75	33596	No
37	GOM_NL__2PRFIN20080803_025945_000000352070_00476_33596_2682.N1	03-AUG-2008 02:59:45	Bright	34.500	168	17Zet Aql	2.9860	11000.	69	33596	No
38	GOM_NL__2PRFIN20080803_030650_000000382070_00476_33596_2683.N1	03-AUG-2008 03:06:50	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	33596	No
39	GOM_NL__2PRFIN20080803_030846_000000362070_00476_33596_2684.N1	03-AUG-2008 03:08:46	Bright	35.500	144	18Del Cyg	2.8600	11000.	71	33596	No
40	GOM_NL__2PRFIN20080803_031040_000000362070_00476_33596_2685.N1	03-AUG-2008 03:10:40	Bright	35.500	69	33Gam Dra	2.2310	3800.0	71	33596	No
41	GOM_NL__2PRFIN20080803_032118_000000362070_00476_33596_2686.N1	03-AUG-2008 03:21:18	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	33596	No
42	GOM_NL__2PRFIN20080803_033359_000000412070_00476_33596_2687.N1	03-AUG-2008 03:33:59	Bright	41.000	6	13Alp Aur	0.080000	3400.0	82	33596	No

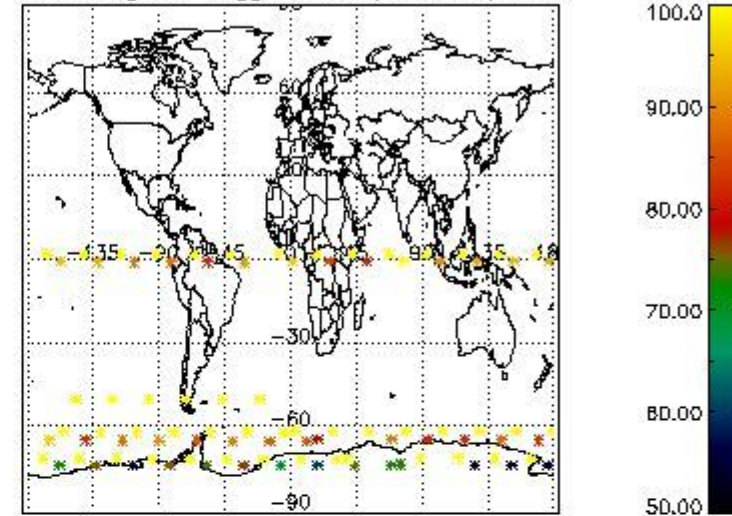


3.2 Plot quality information per product (world map)

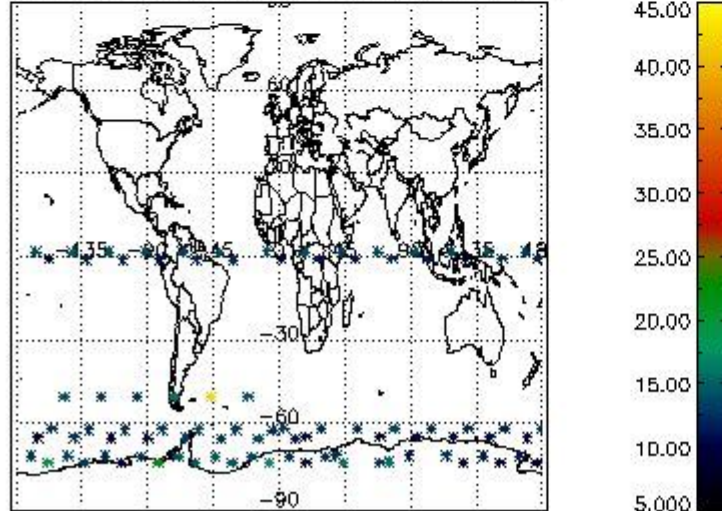
Percentage of flagged data per O3 profile



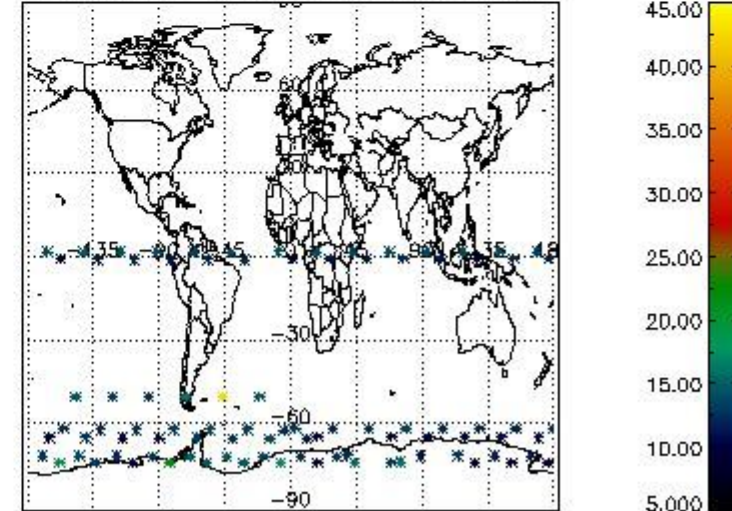
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

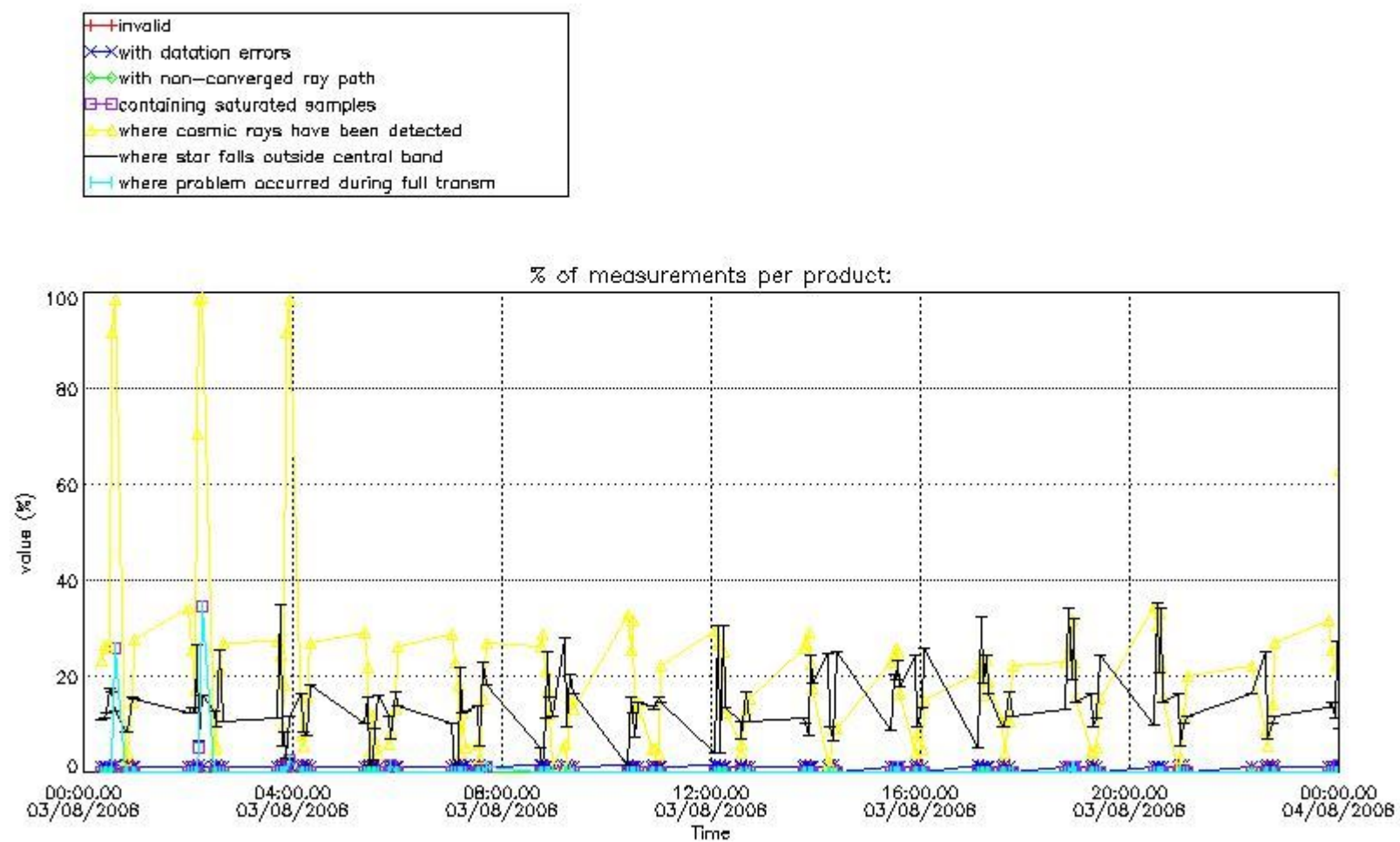


4. Level 1 quality information per product

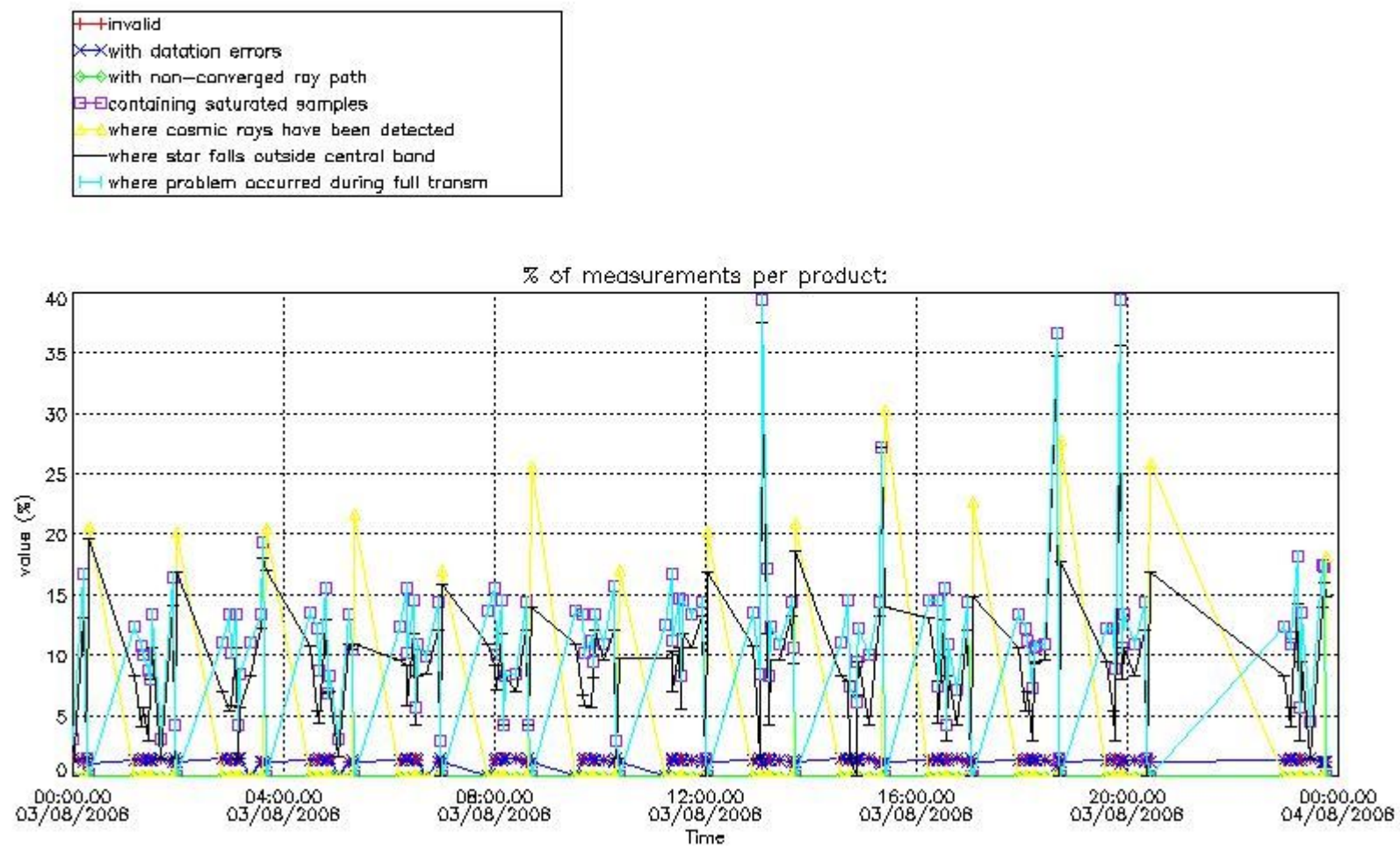
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



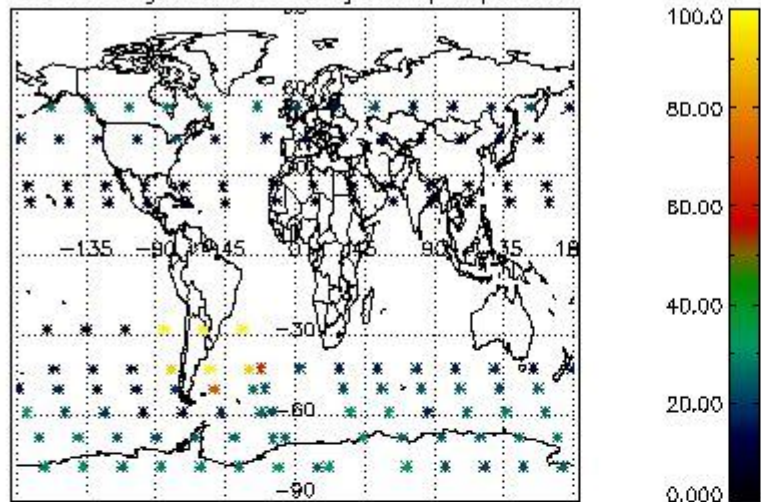
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



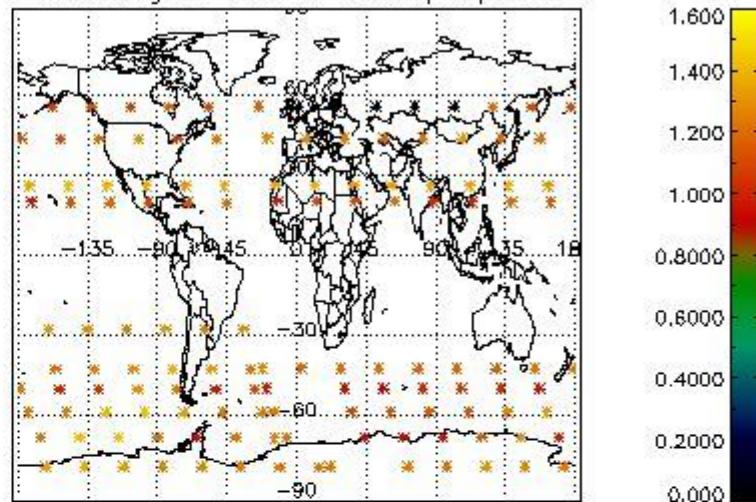
4.2 Plot quality information per product coming from level 1b processing (world map)

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

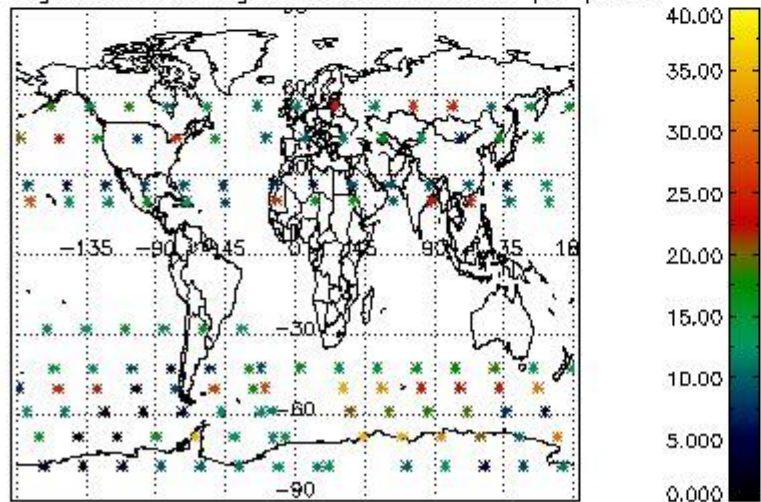
Percentage of cosmic ray hits per profile



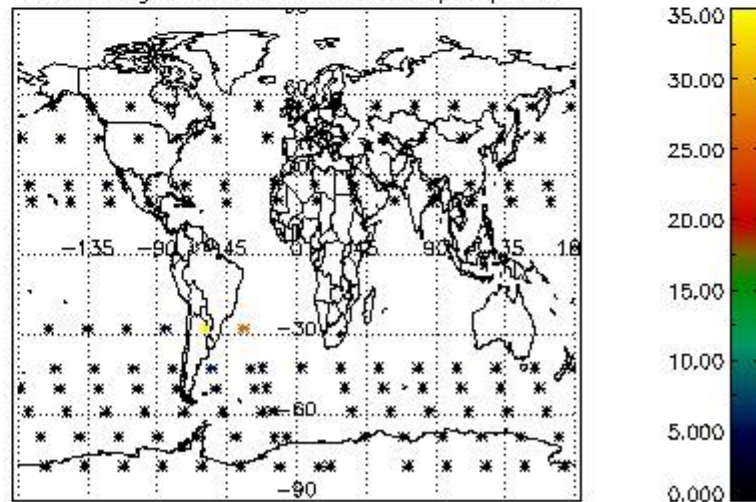
Percentage of datation errors per profile



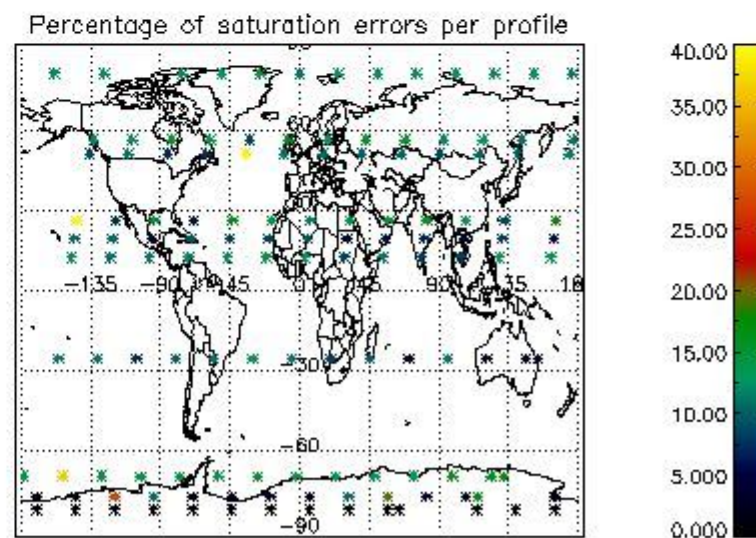
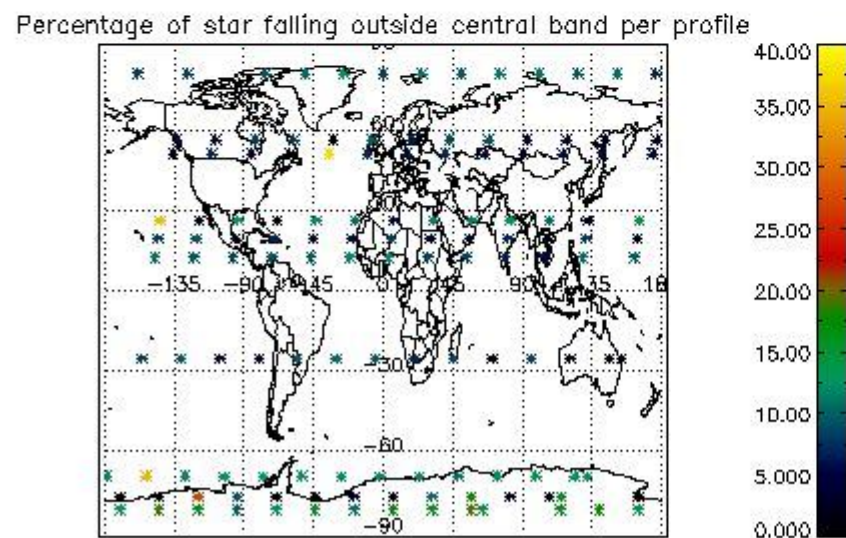
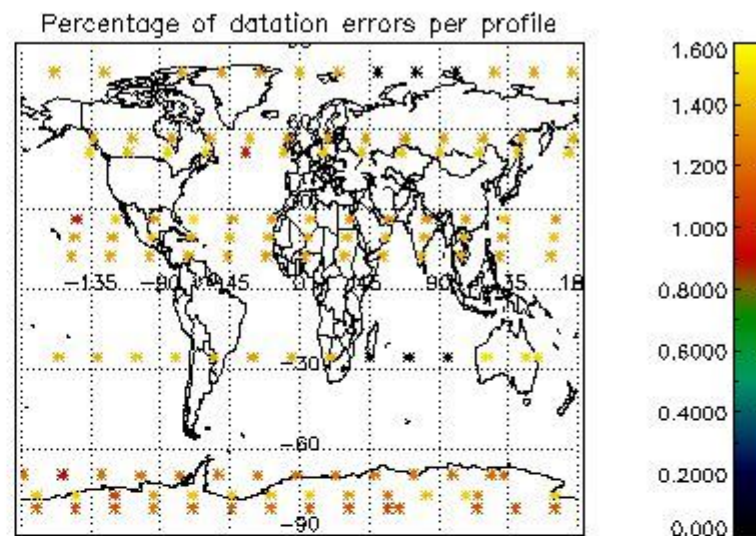
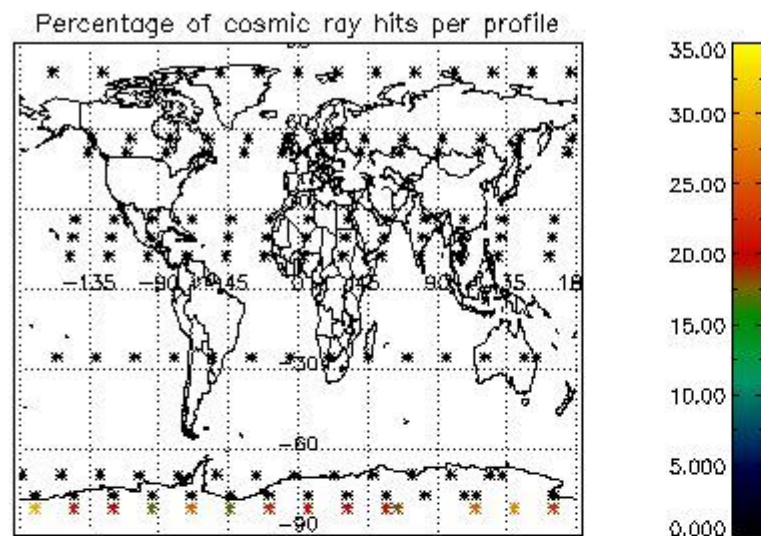
Percentage of star falling outside central band per profile



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

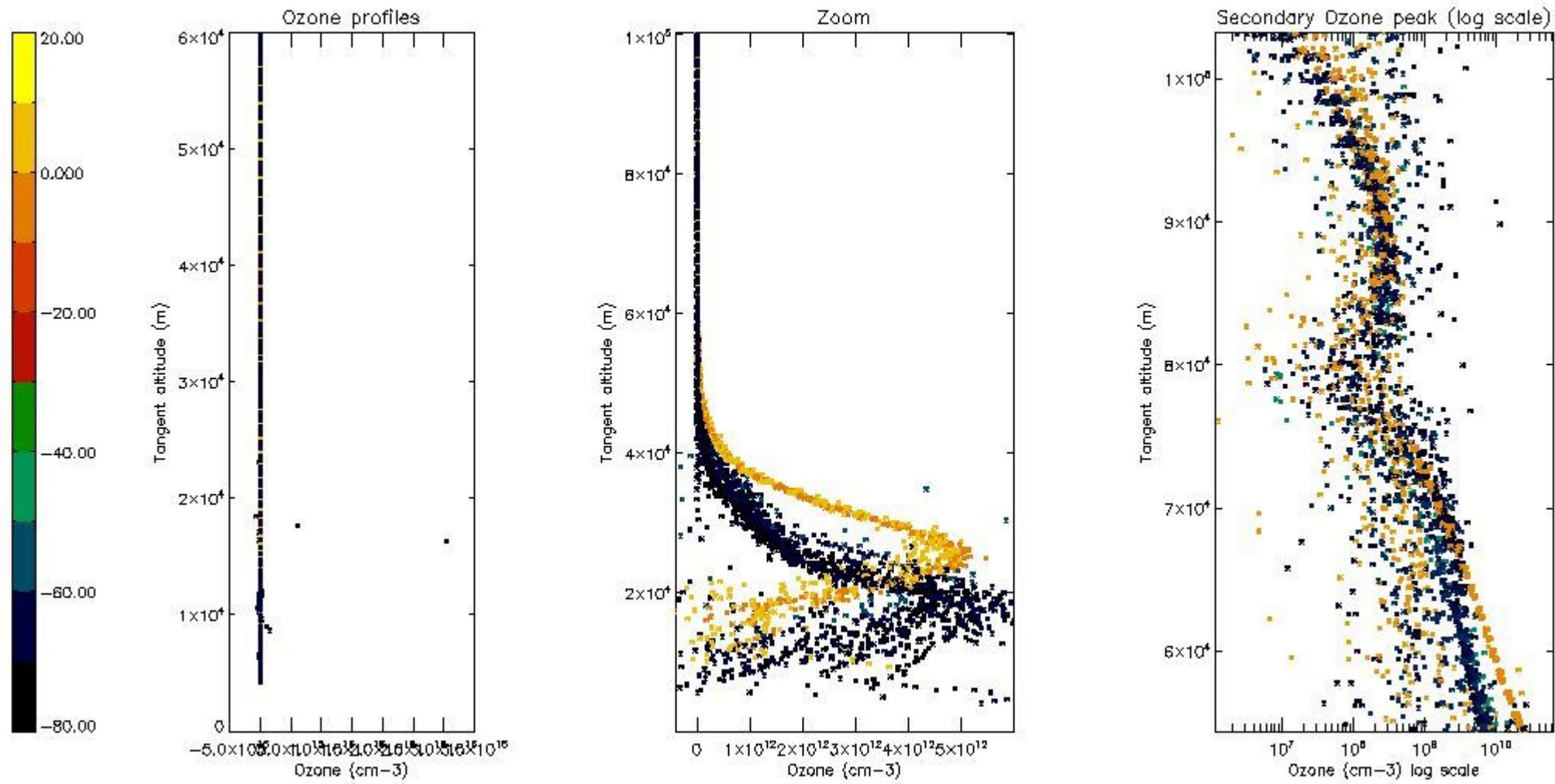
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	37
STD < 20	19

STD < 10	14
STD < 5	10

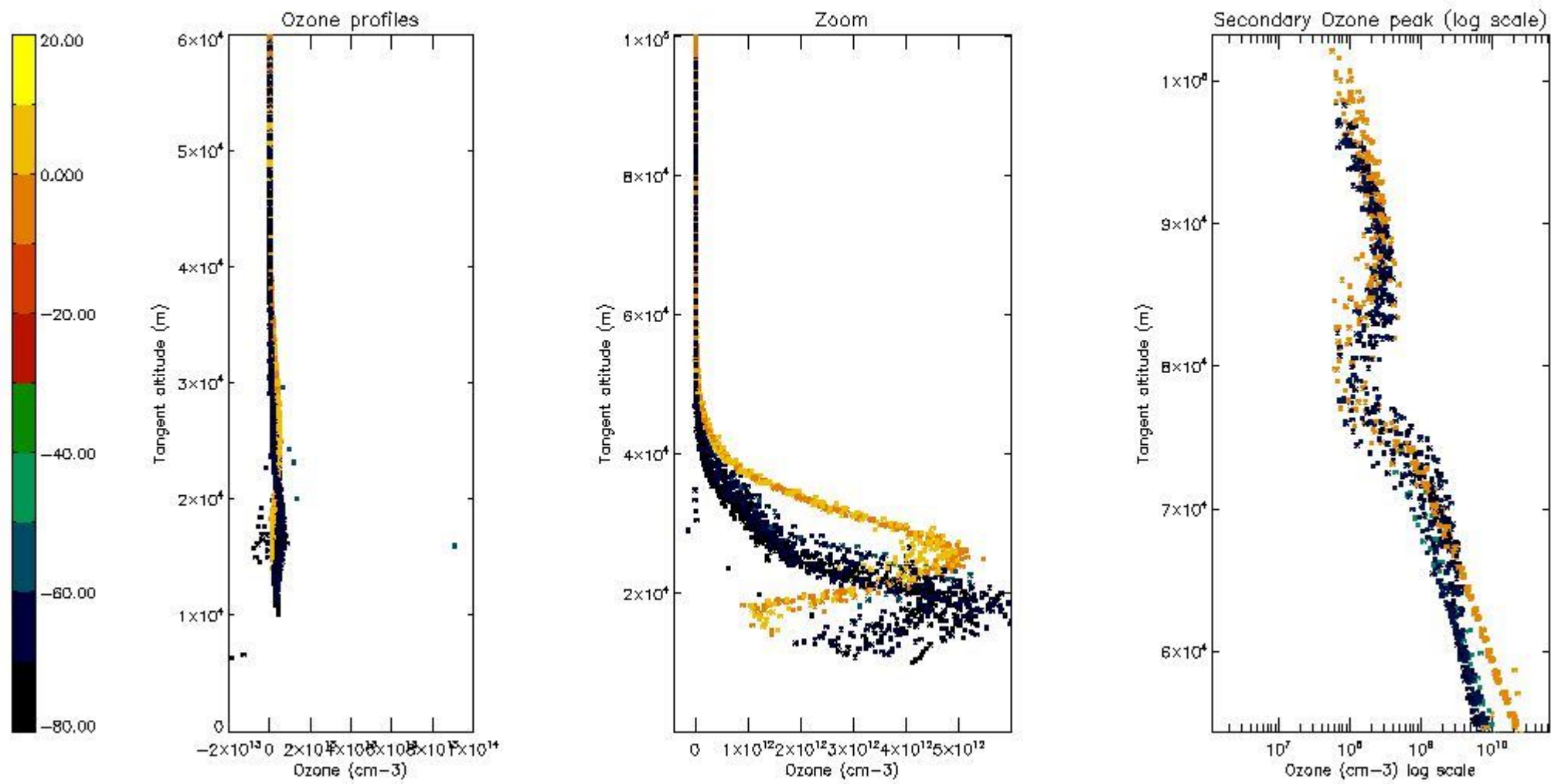
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



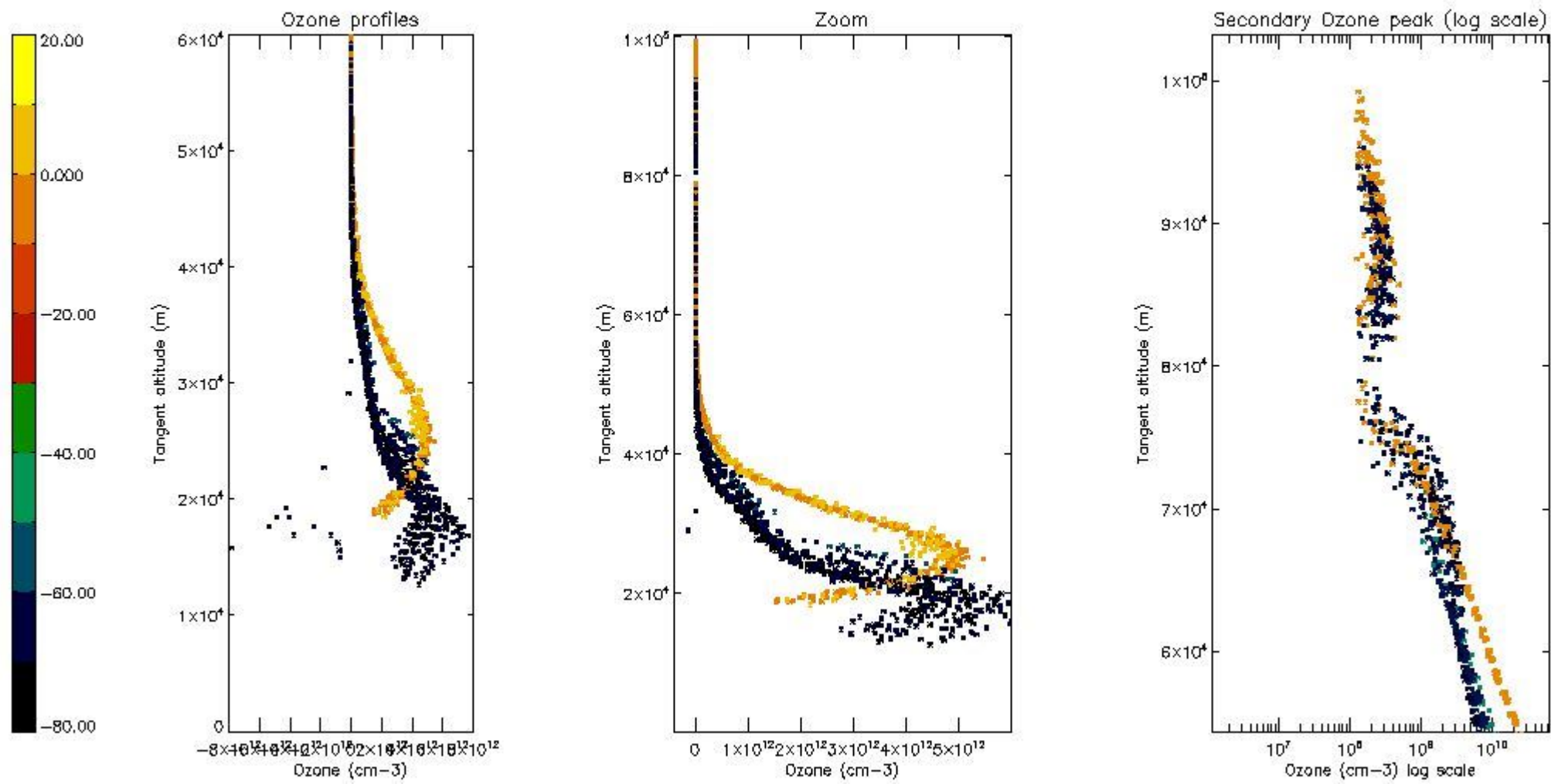
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



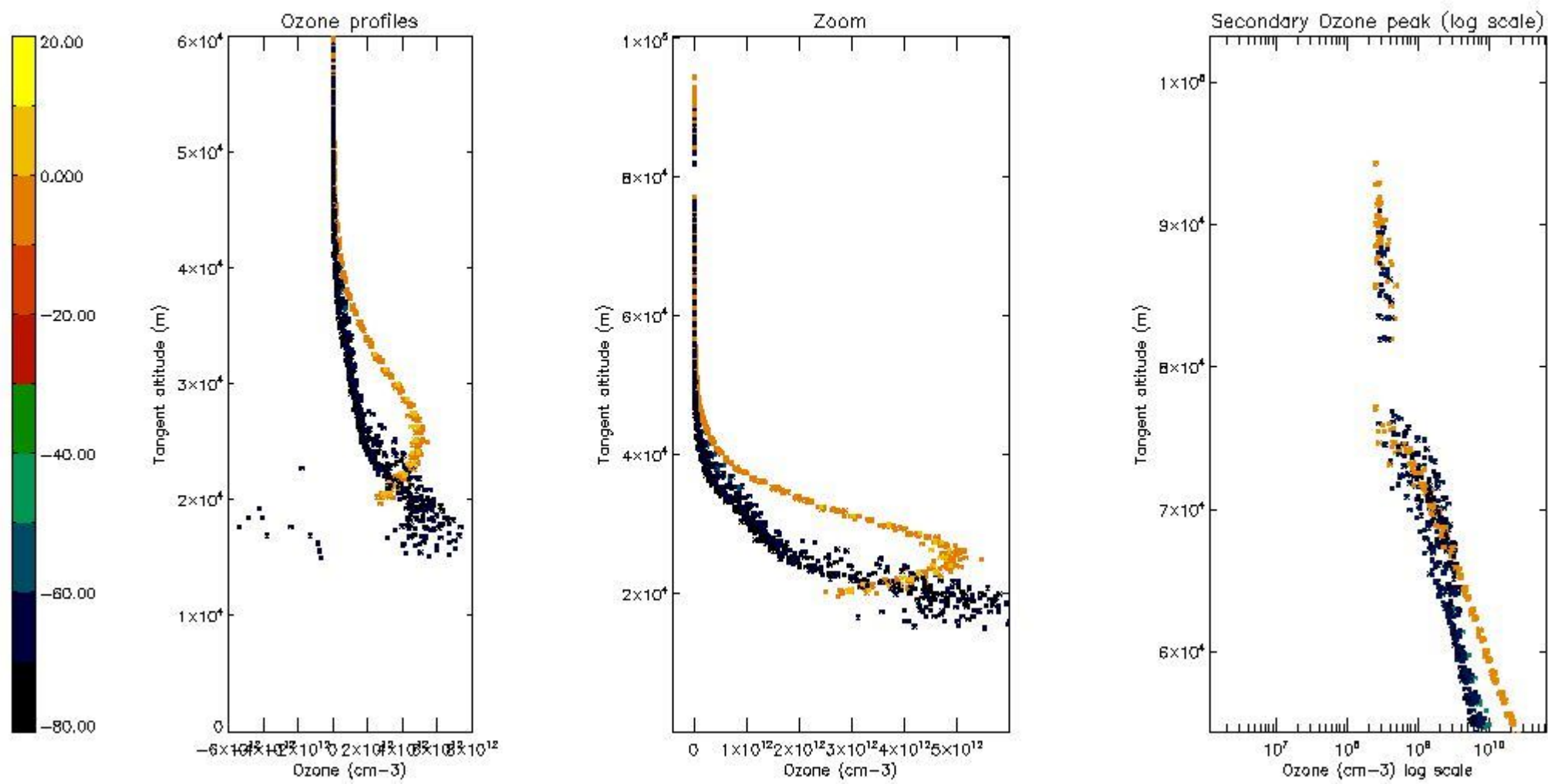
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



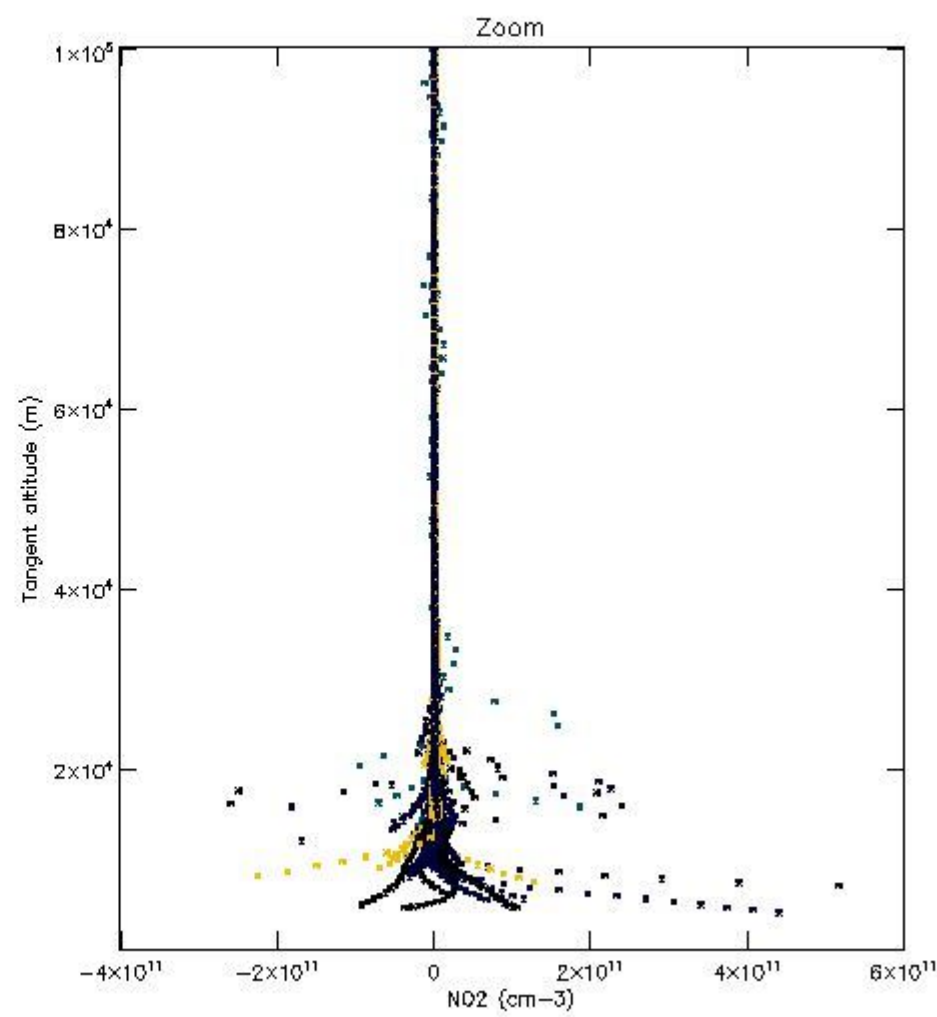
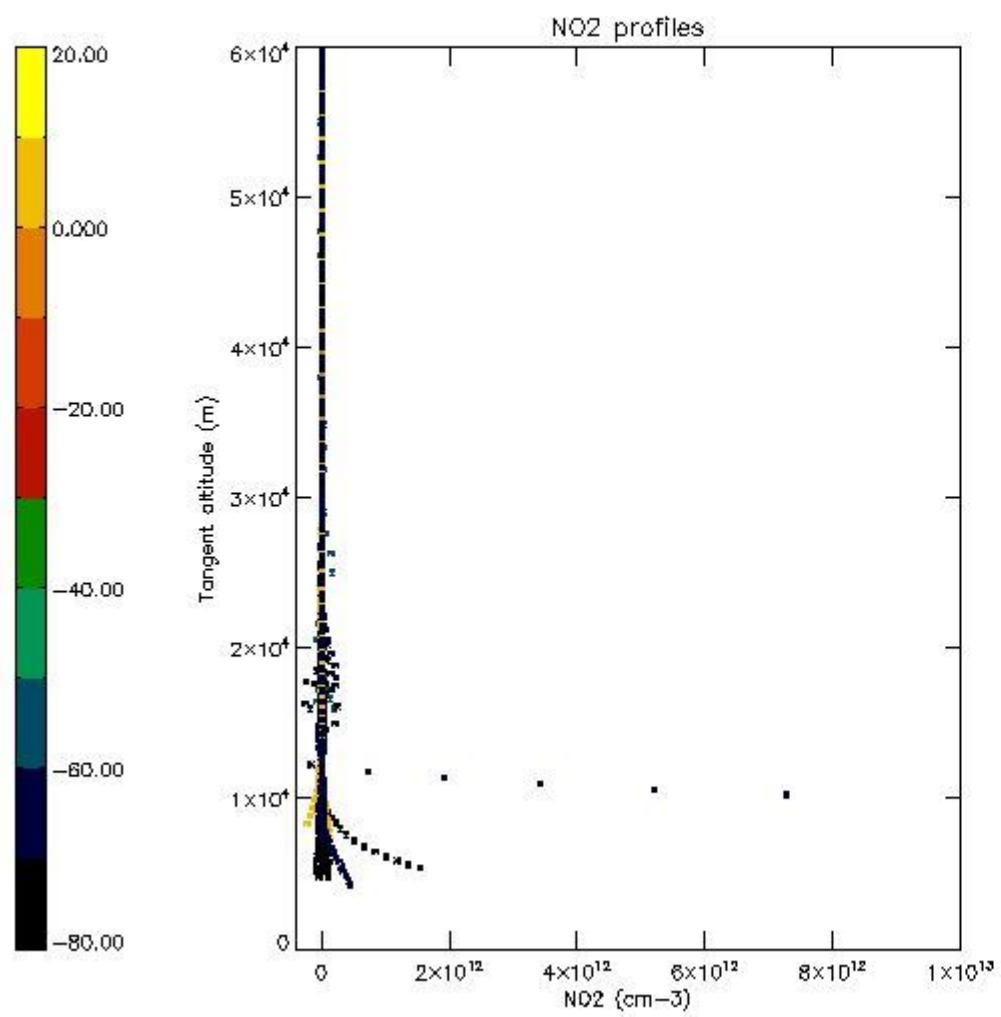
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



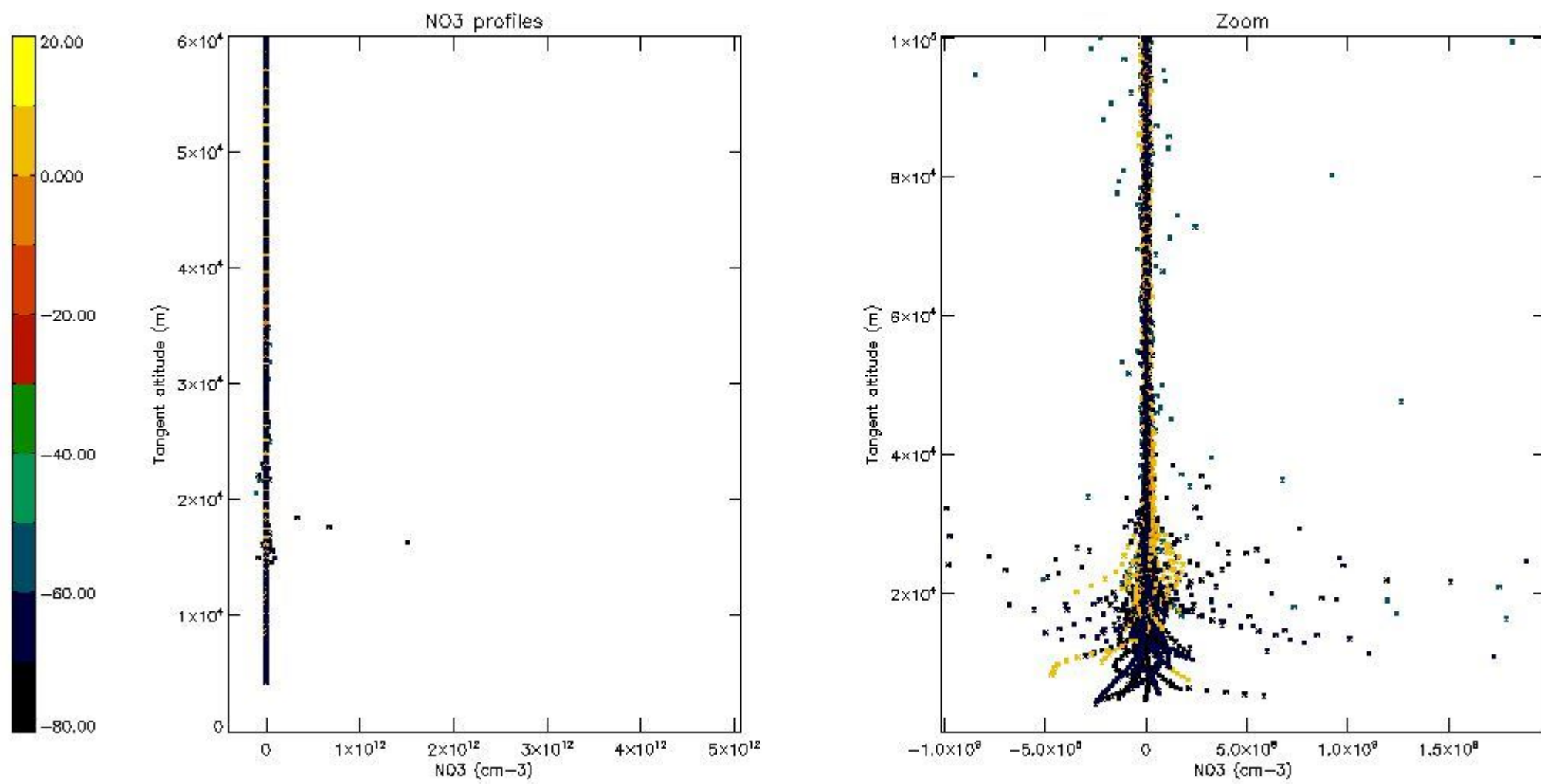
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



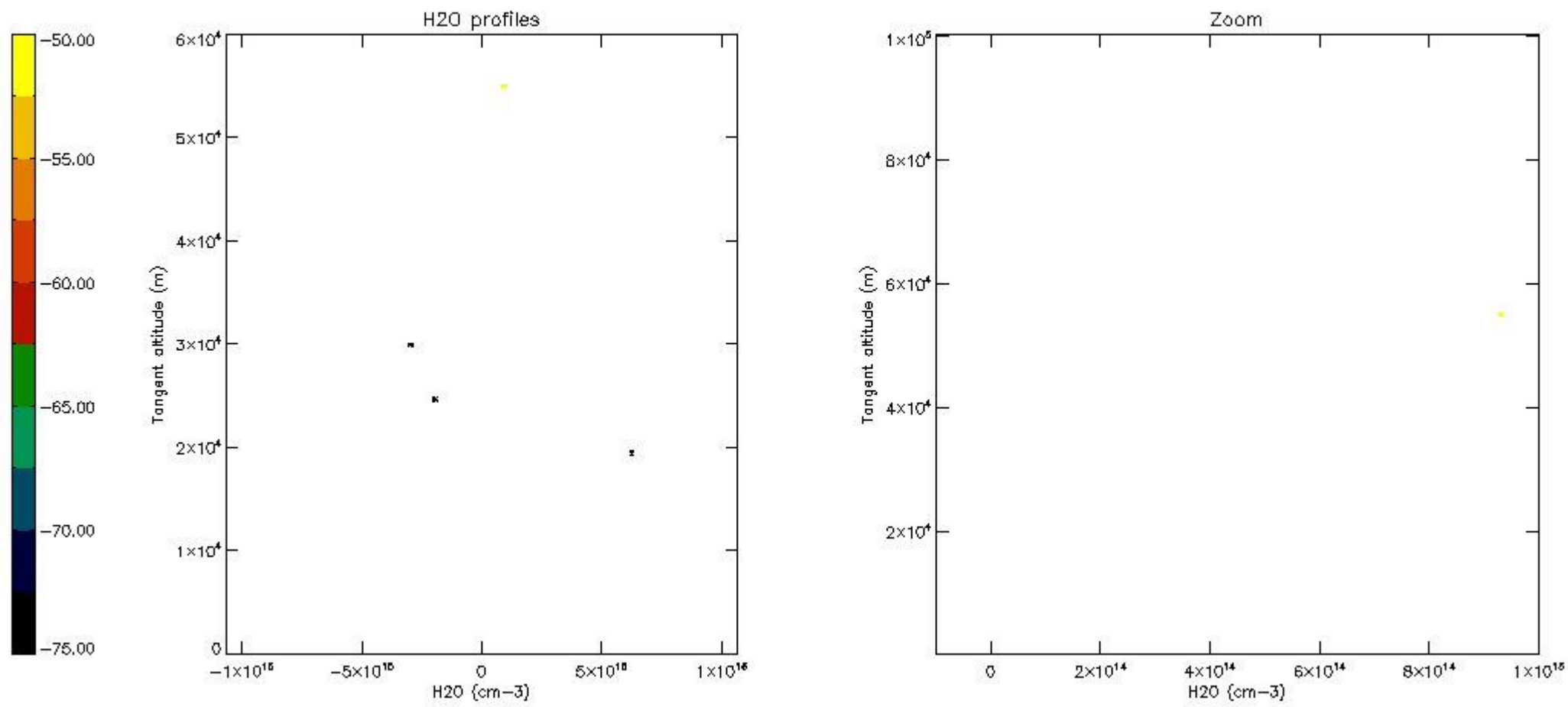
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

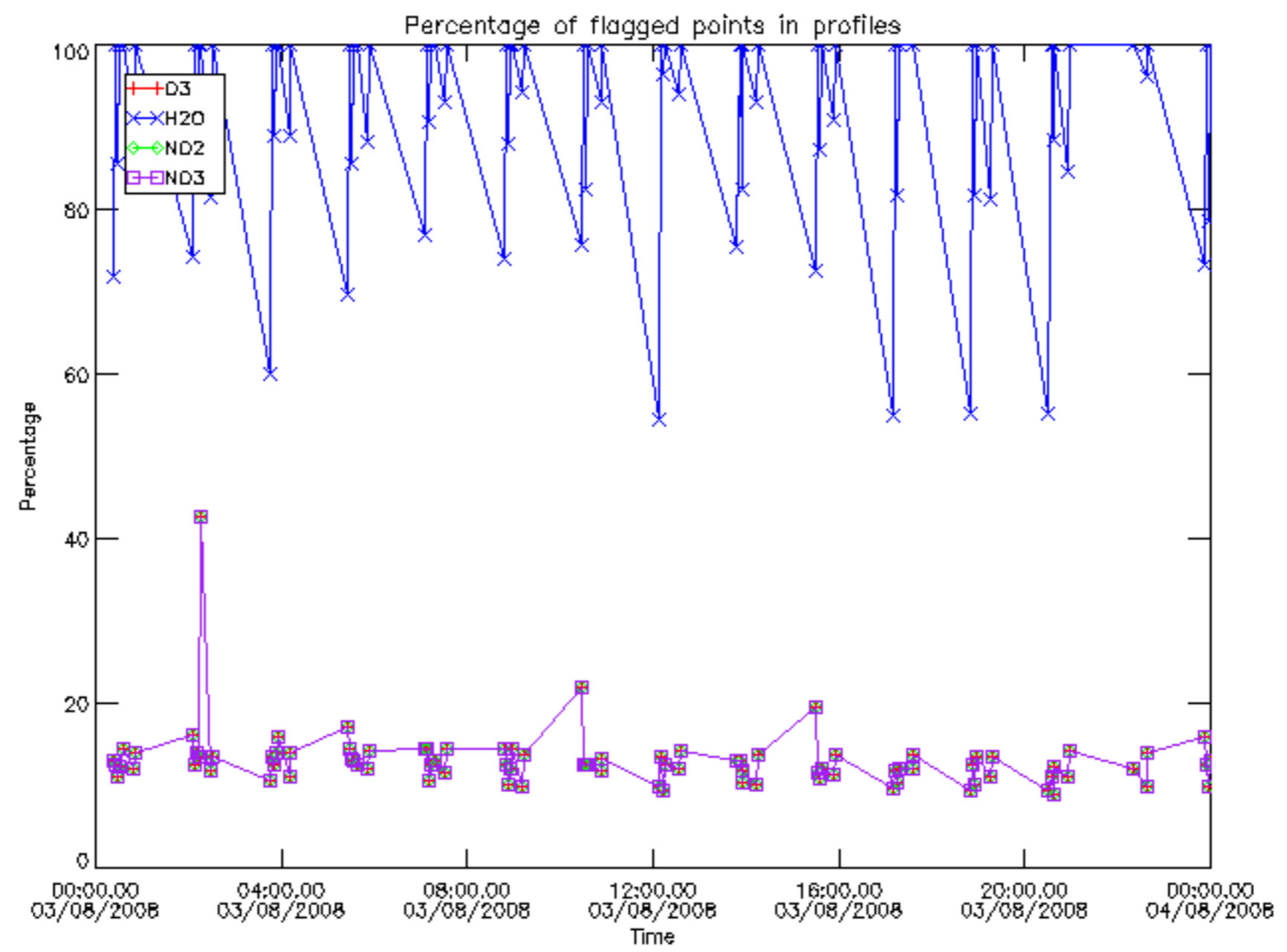
The colorbar represents the latitude.



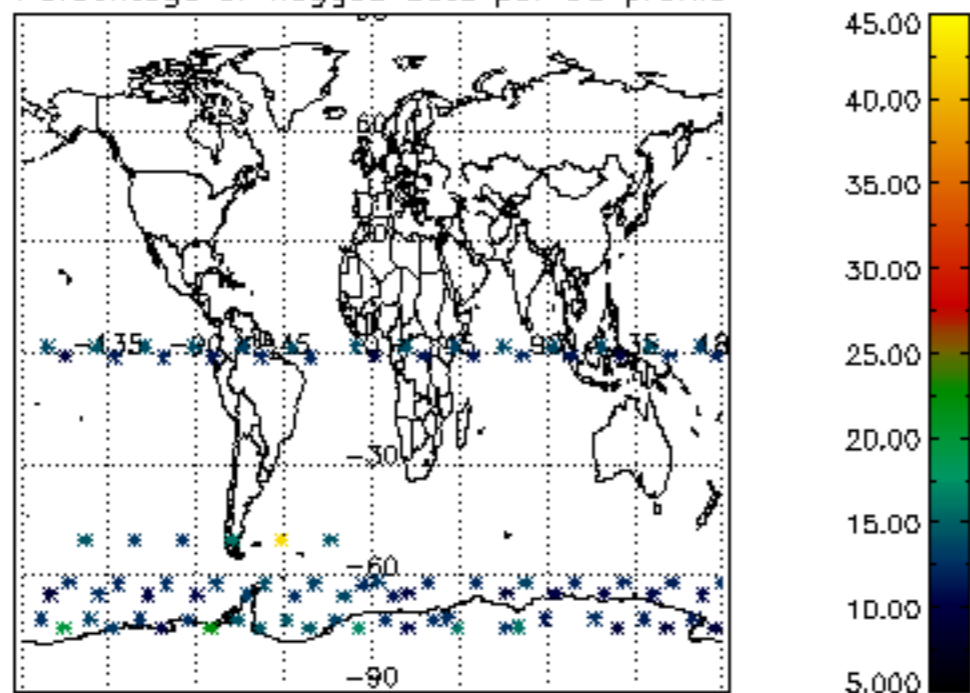
6. Auxiliary Data Files used for the production reported in section 2

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.

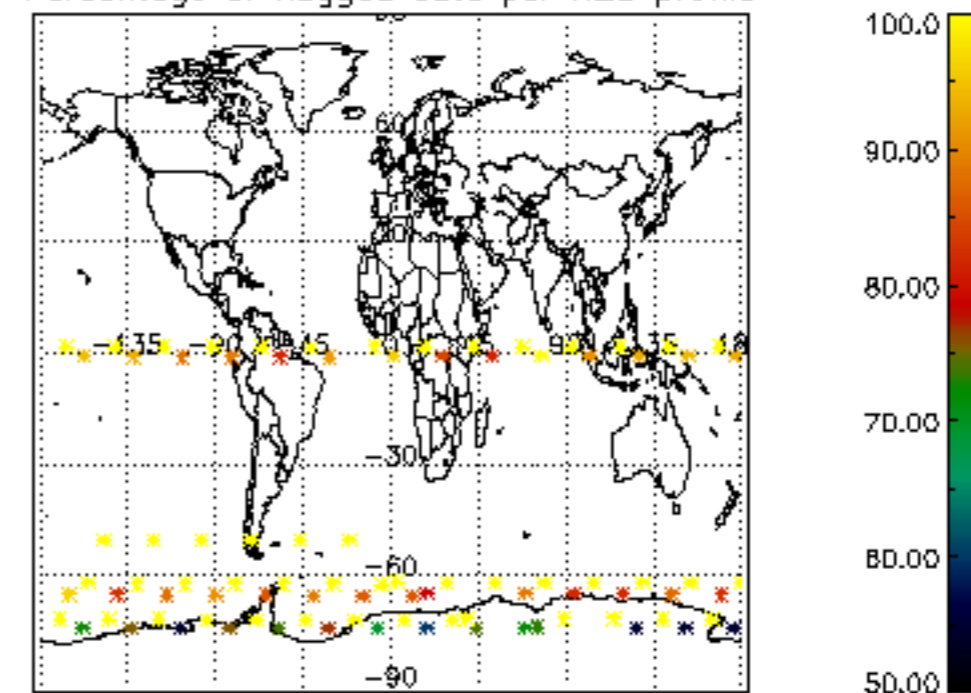
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	03-AUG-2008 00:00:06
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	03-AUG-2008 00:00:06
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	03-AUG-2008 00:00:06



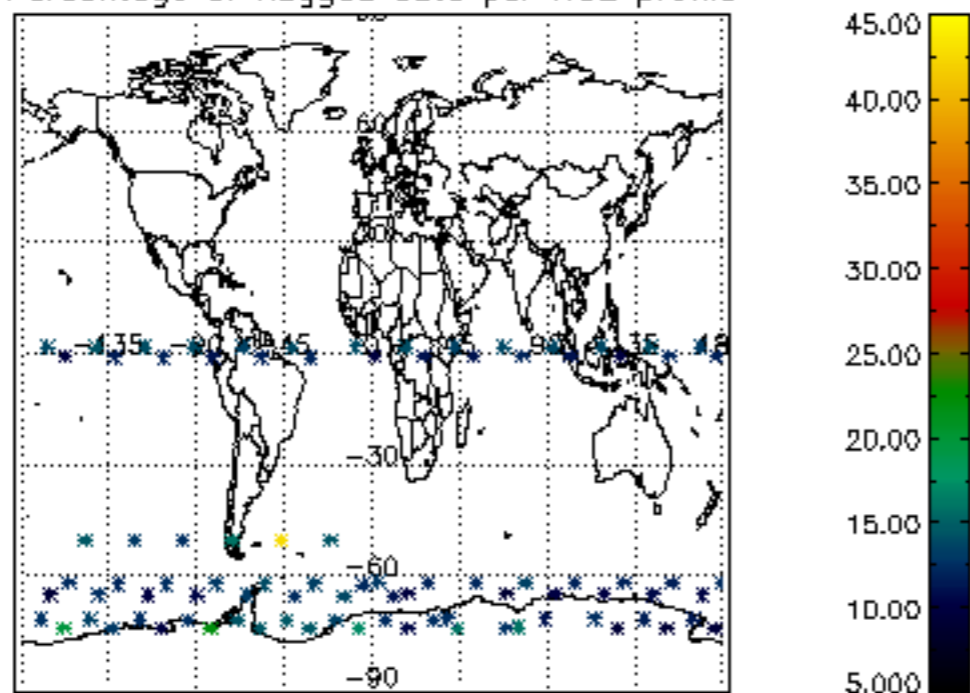
Percentage of flagged data per D3 profile



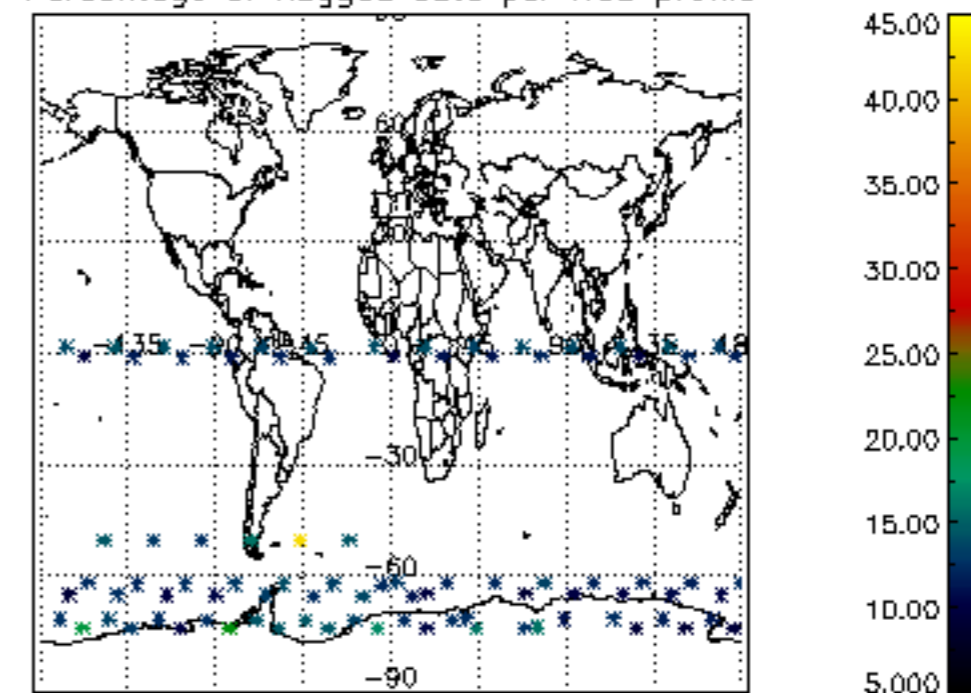
Percentage of flagged data per H2O profile

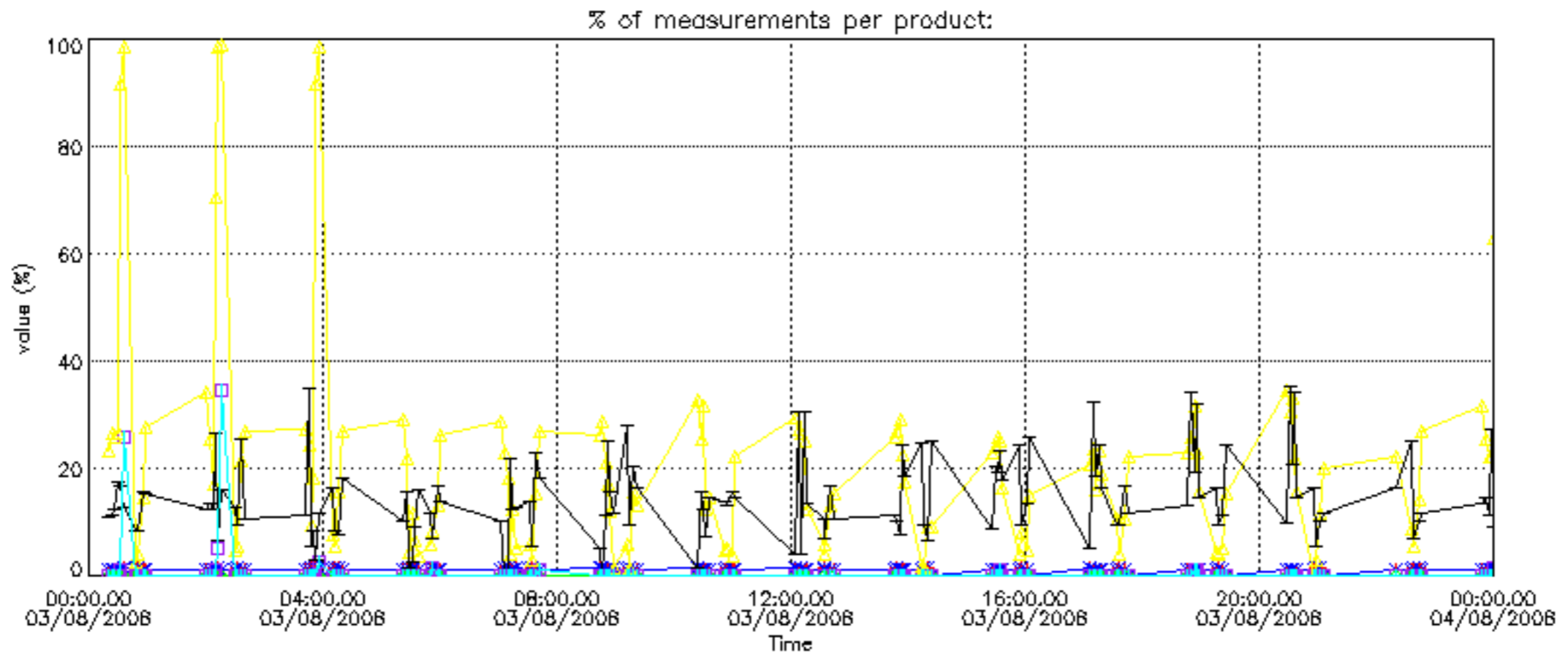


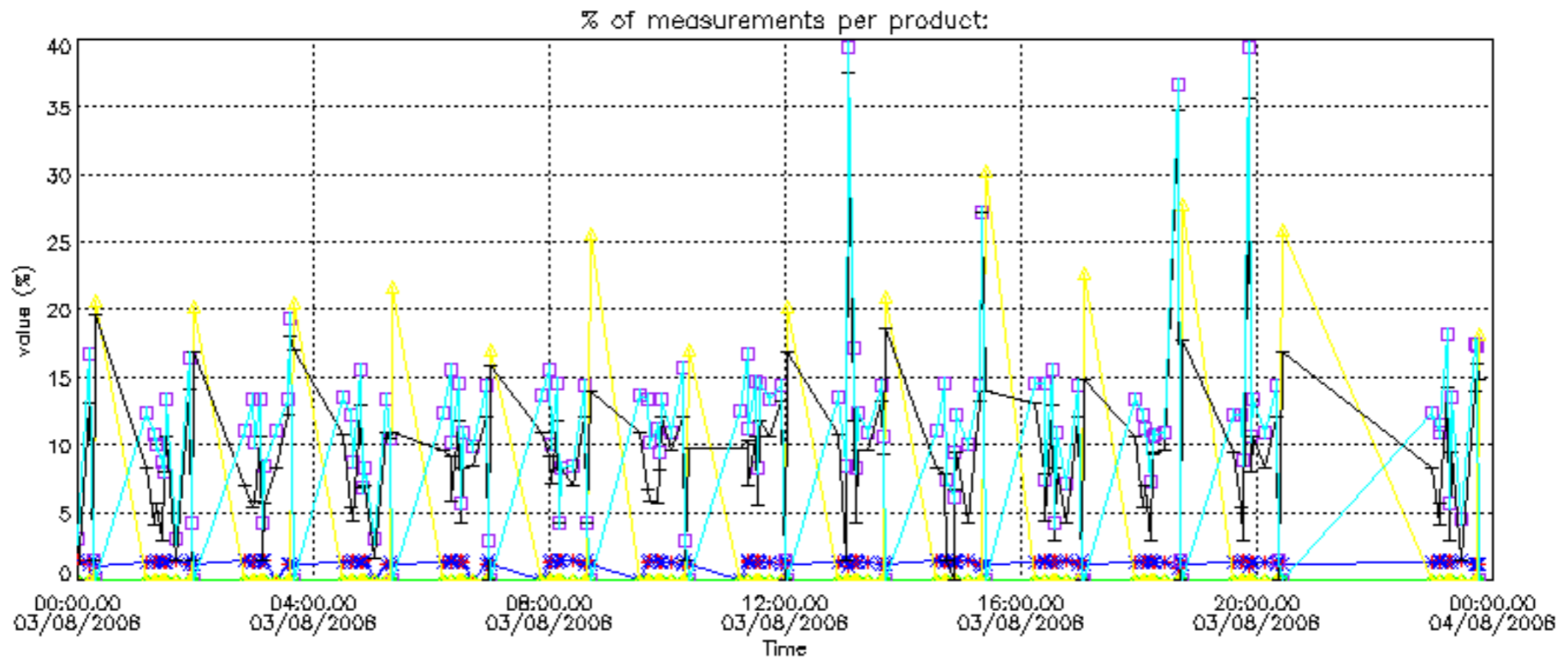
Percentage of flagged data per NO2 profile



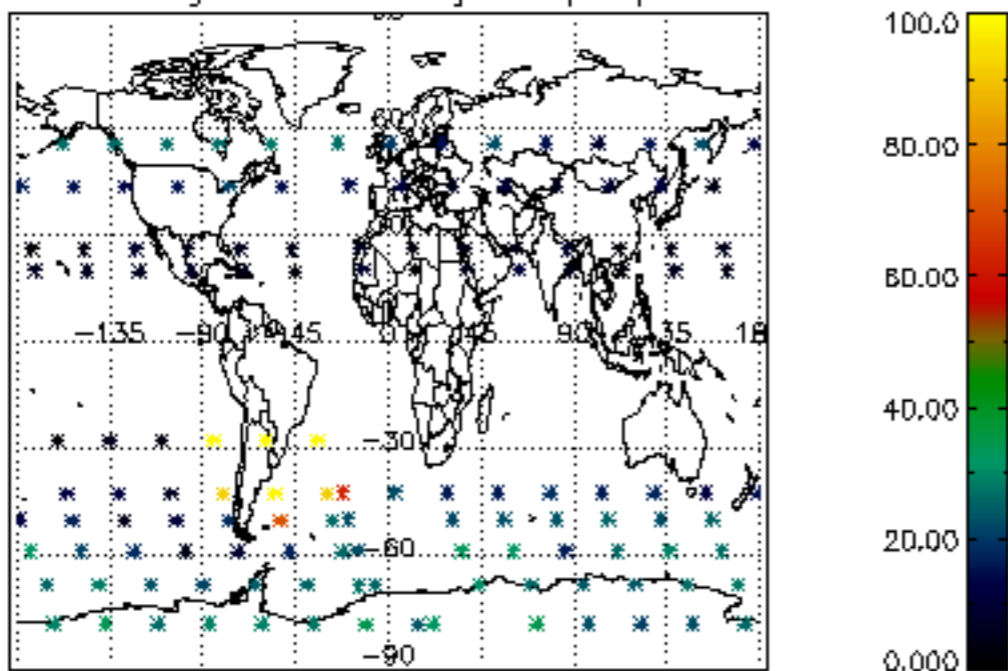
Percentage of flagged data per NO3 profile



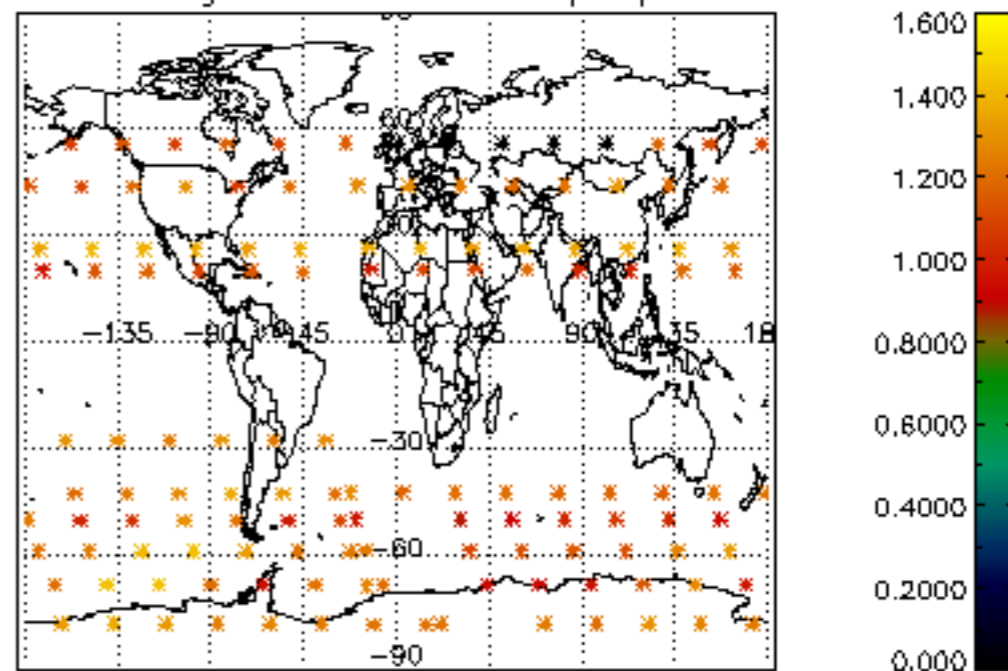




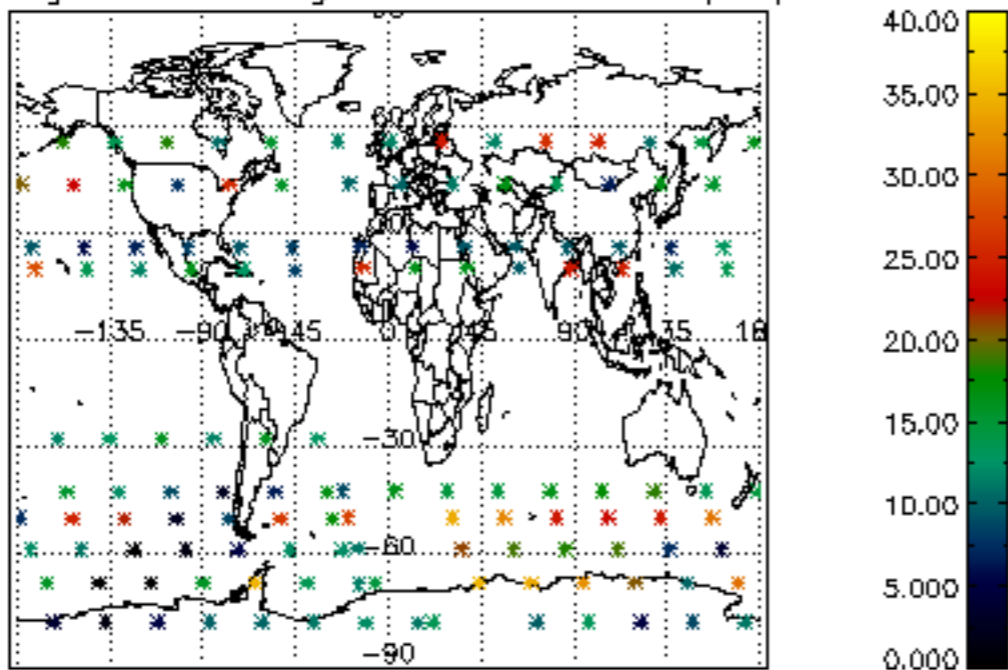
Percentage of cosmic ray hits per profile



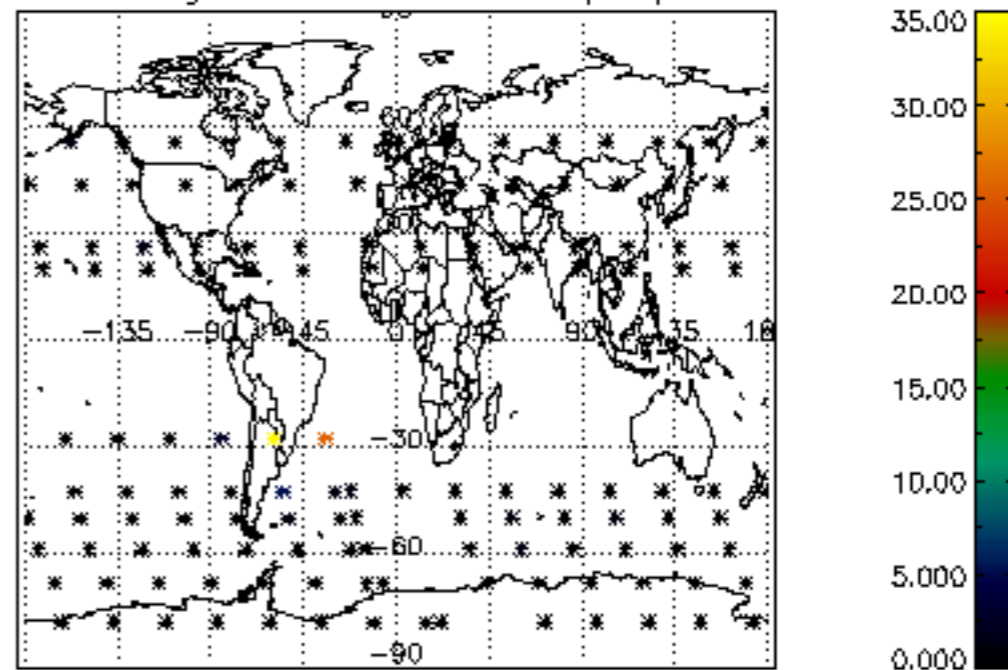
Percentage of datation errors per profile



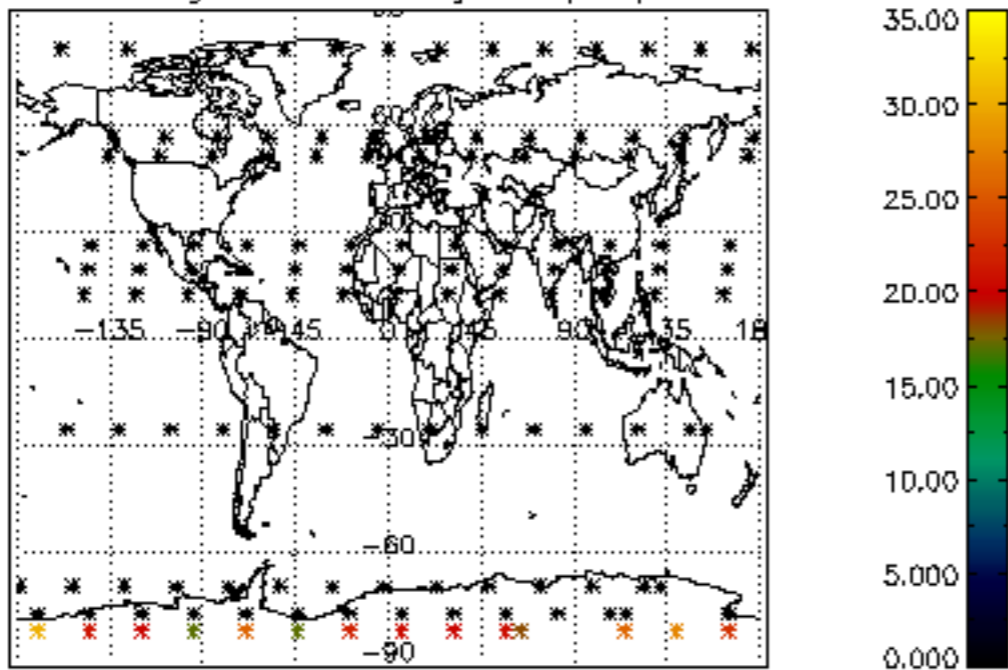
Percentage of star falling outside central band per profile



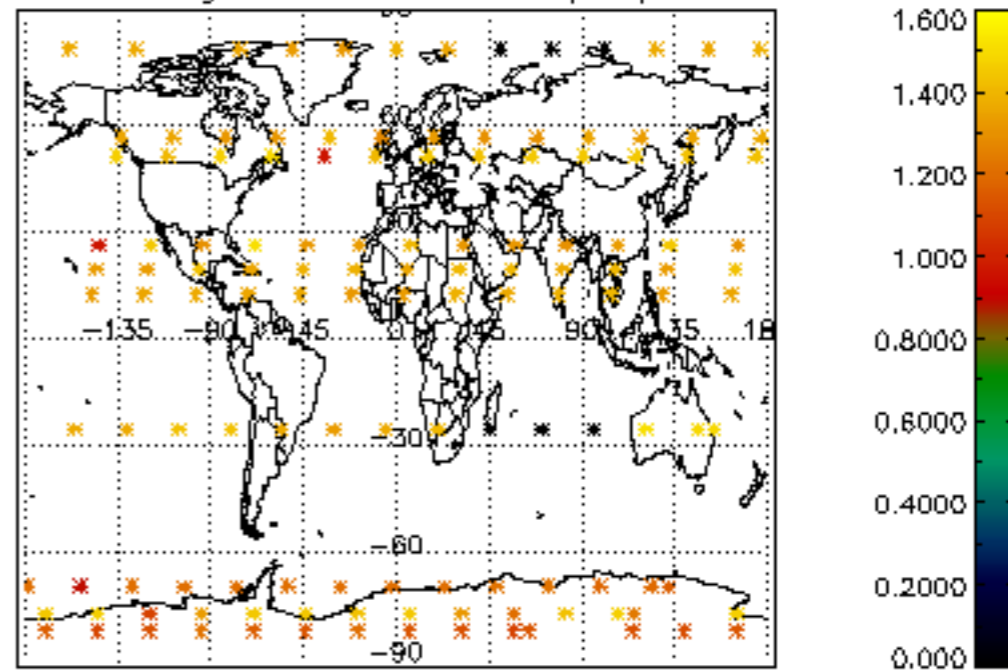
Percentage of saturation errors per profile



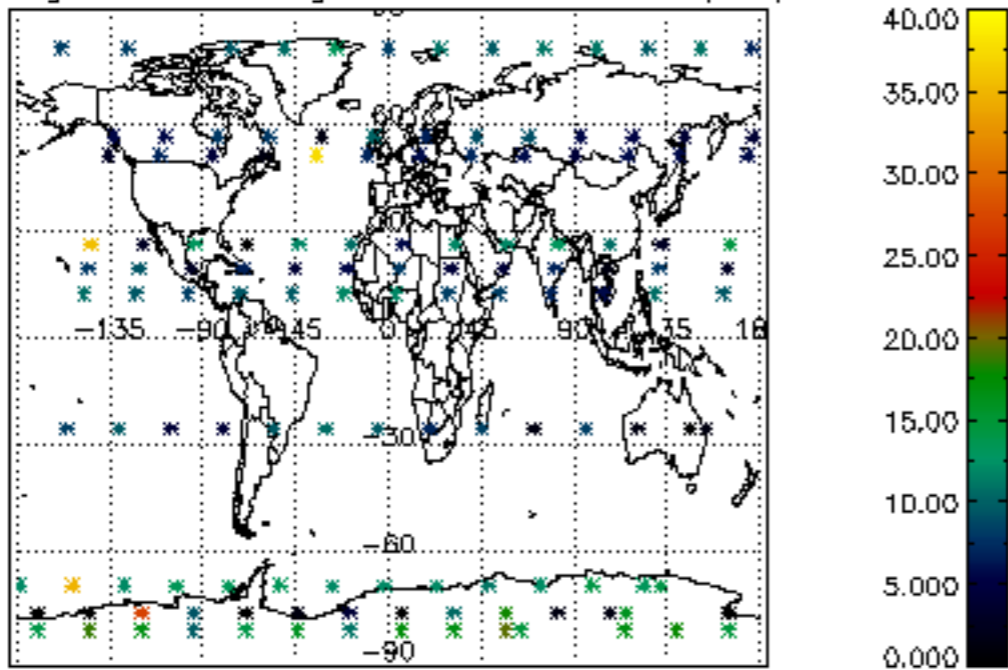
Percentage of cosmic ray hits per profile



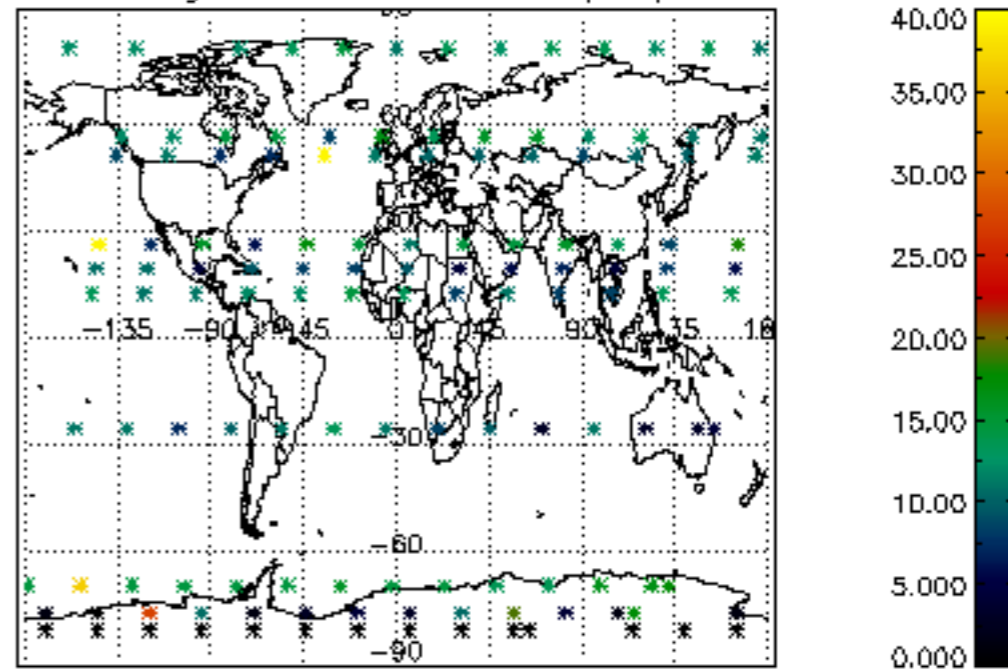
Percentage of datation errors per profile

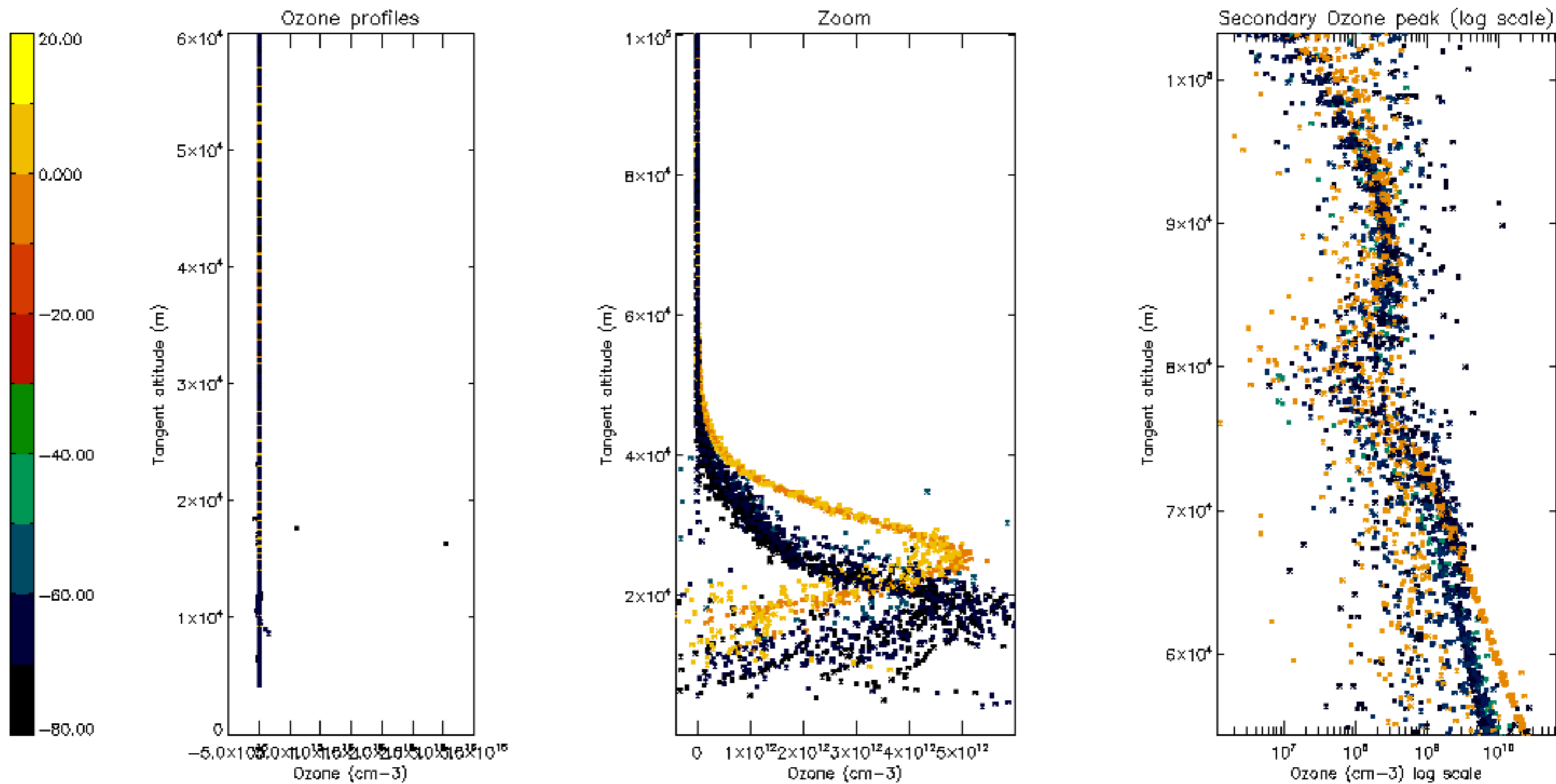


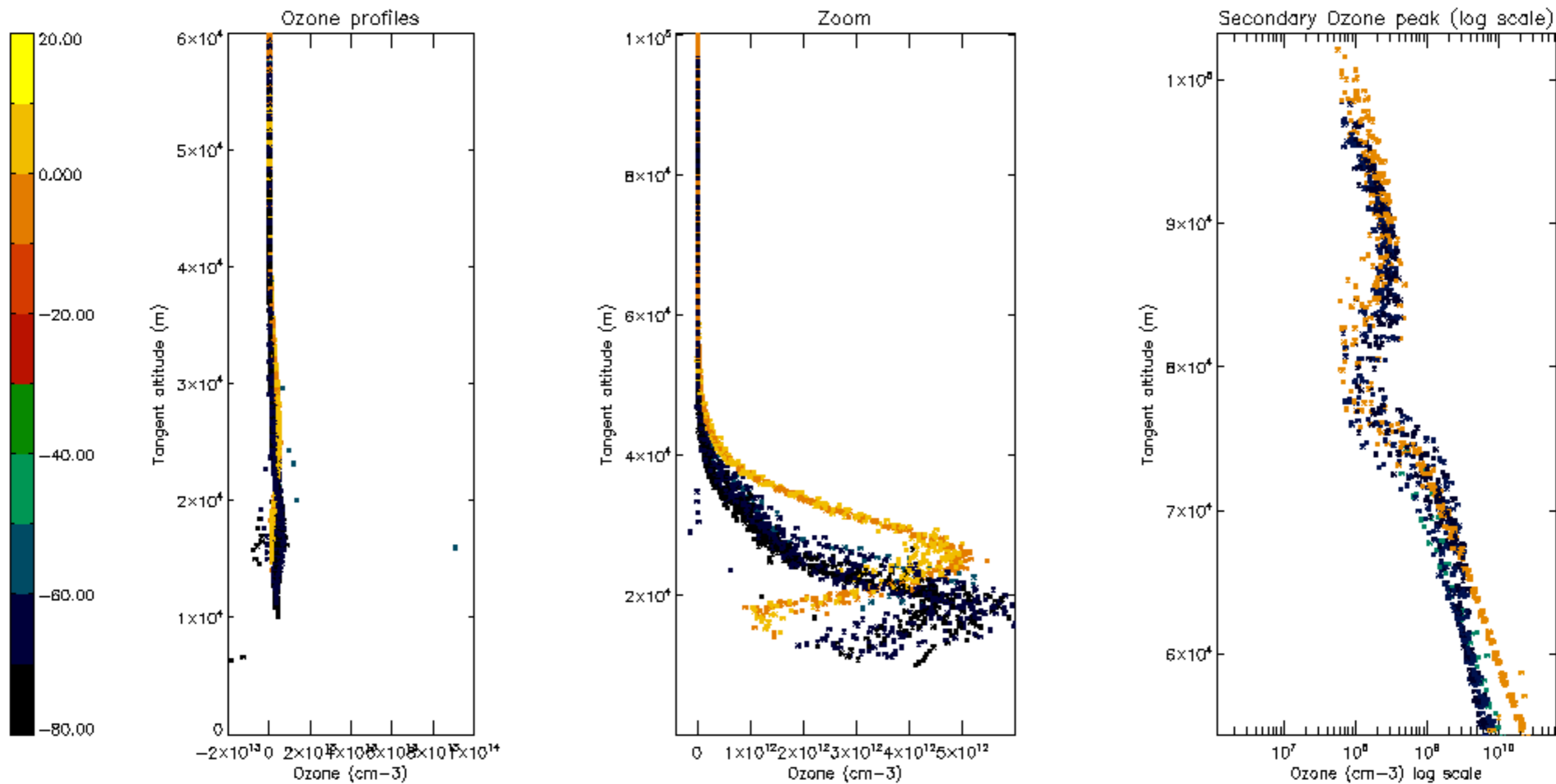
Percentage of star falling outside central band per profile

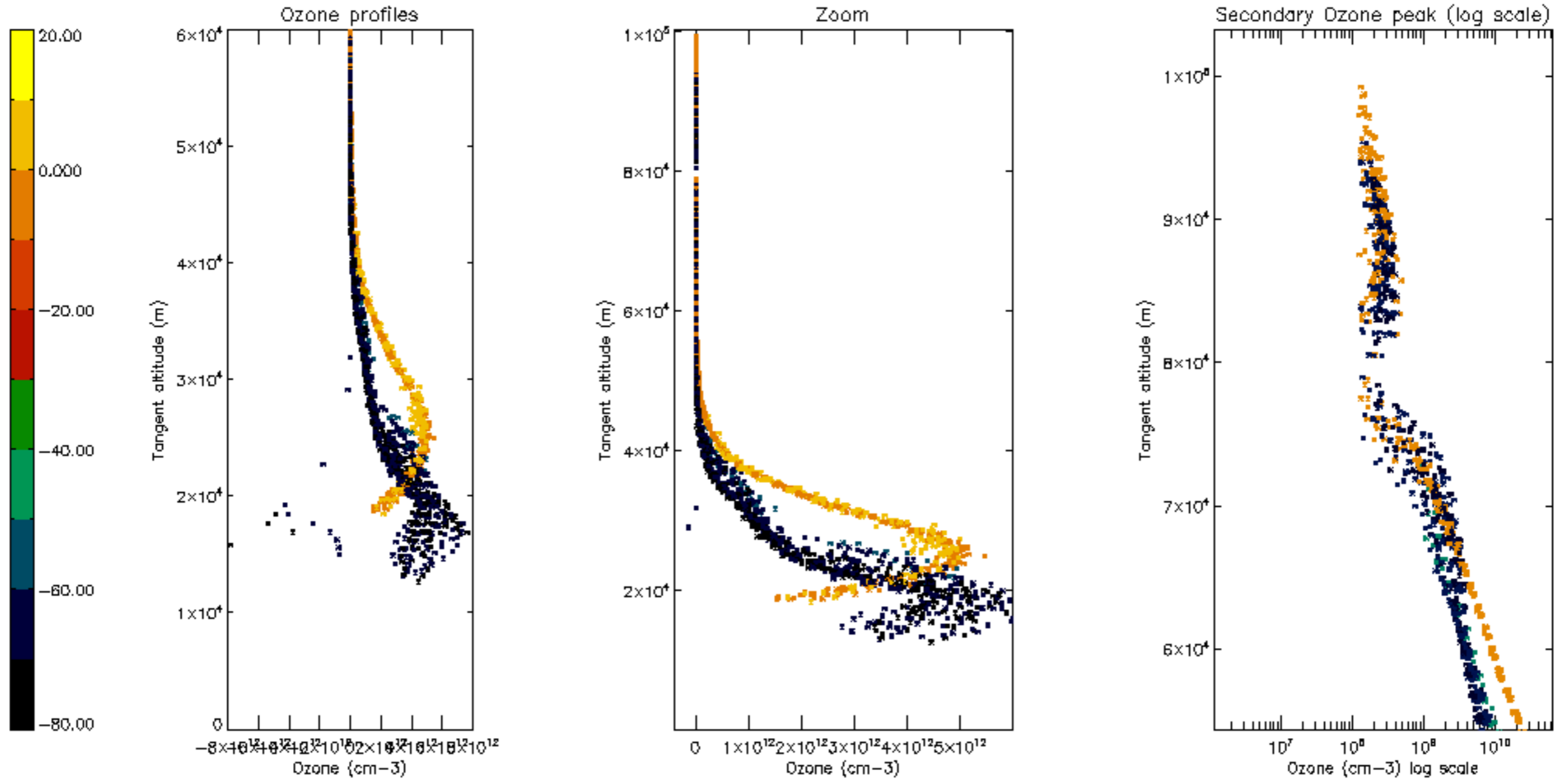


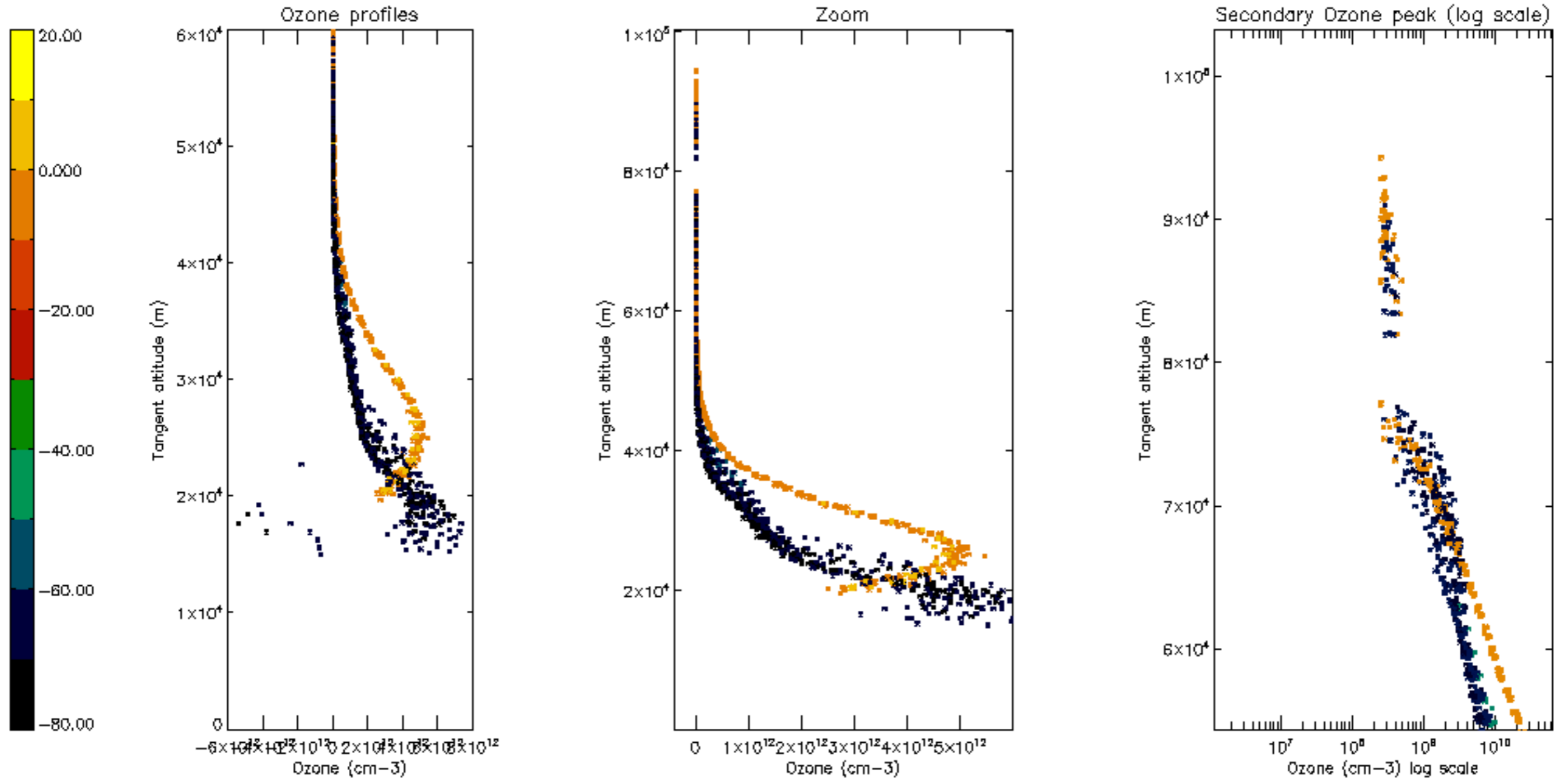
Percentage of saturation errors per profile

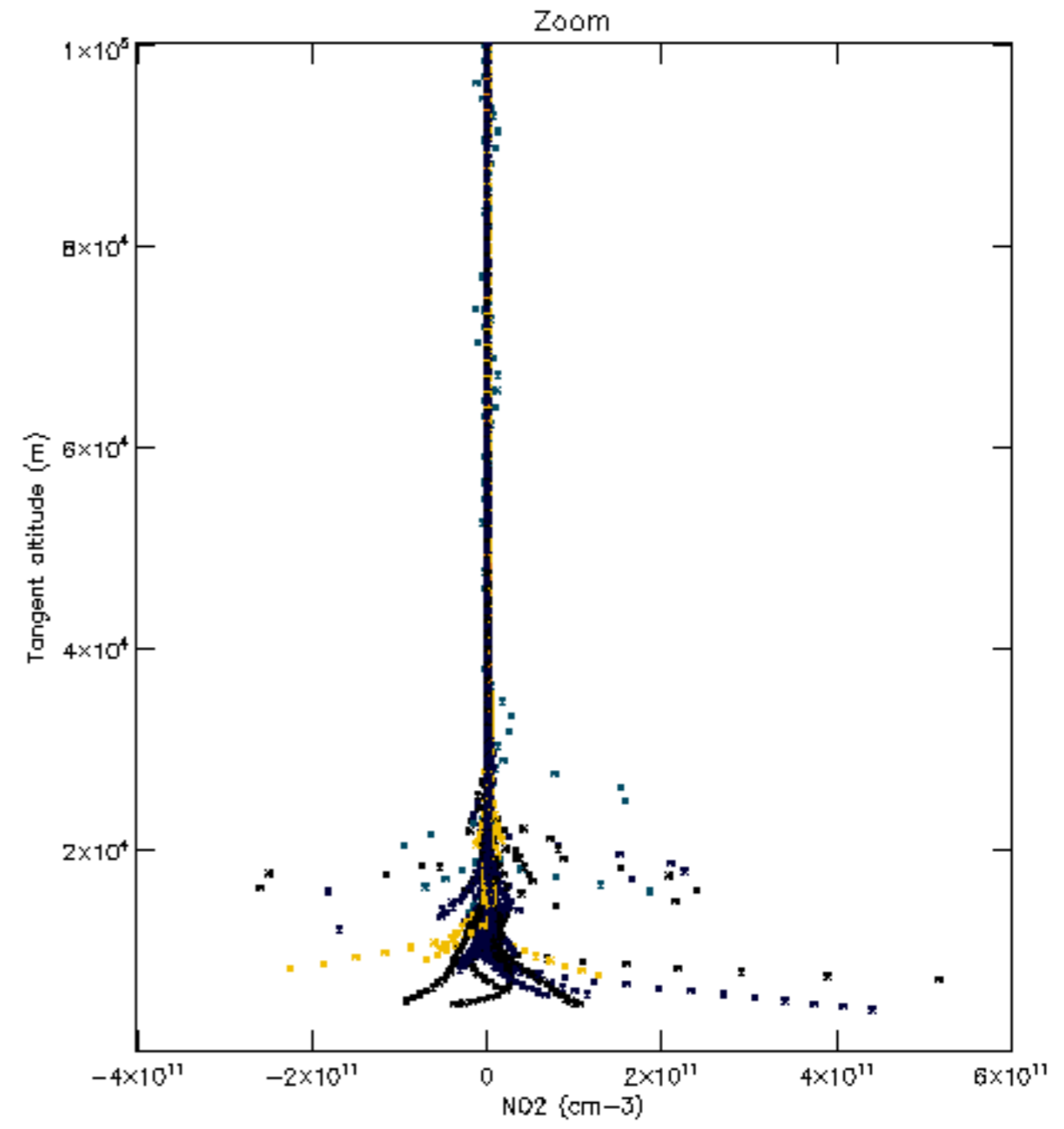
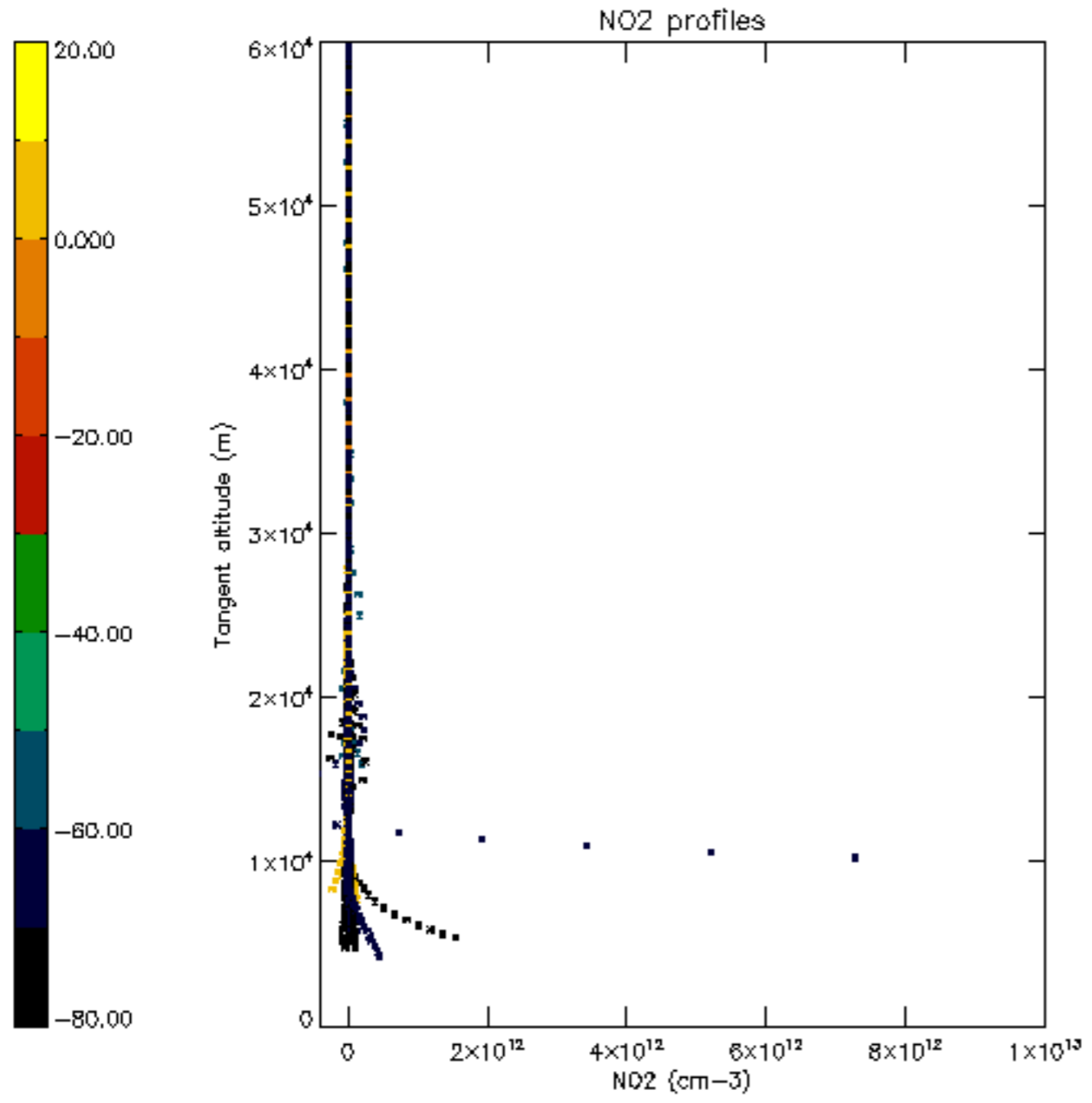


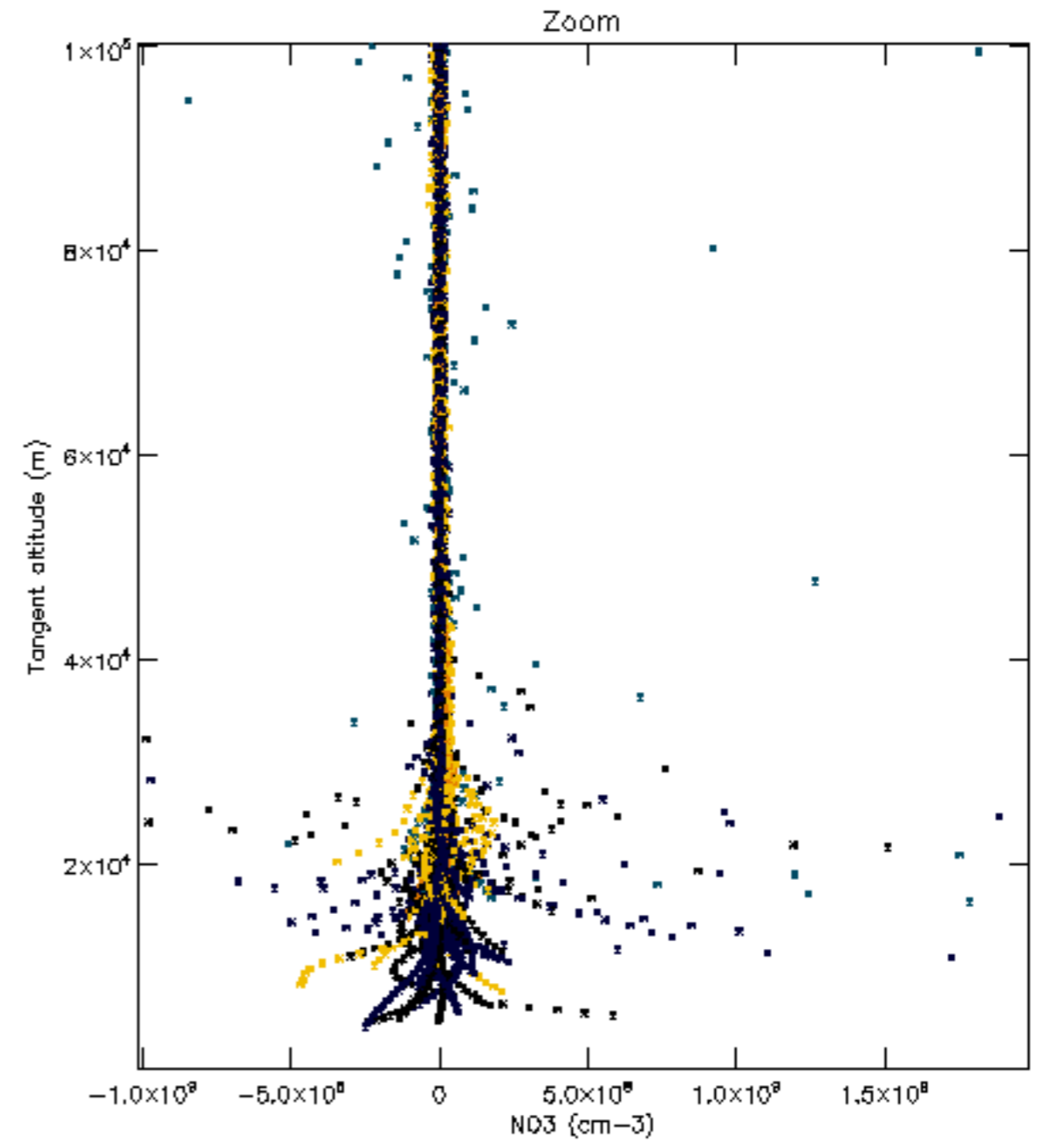
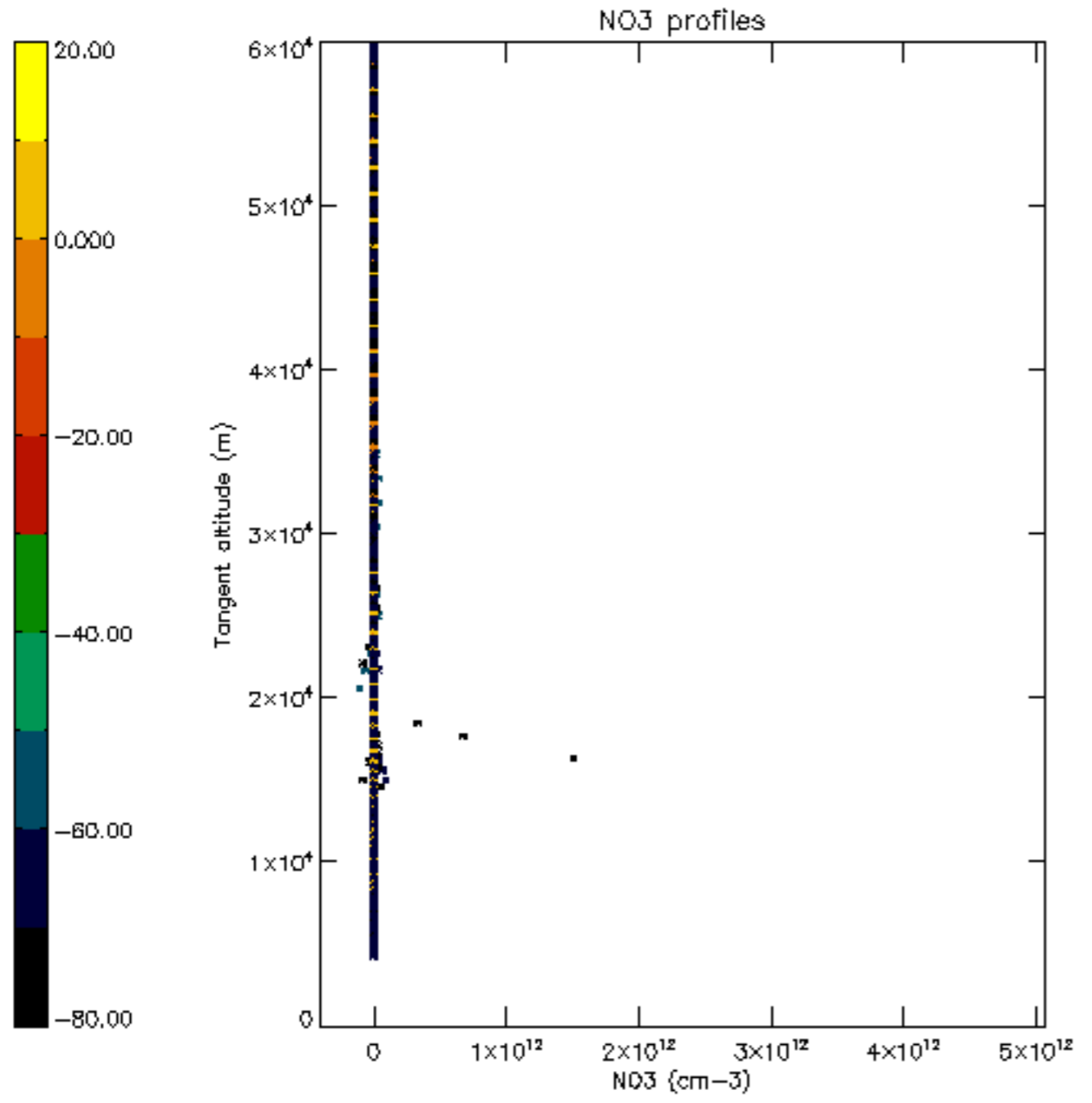


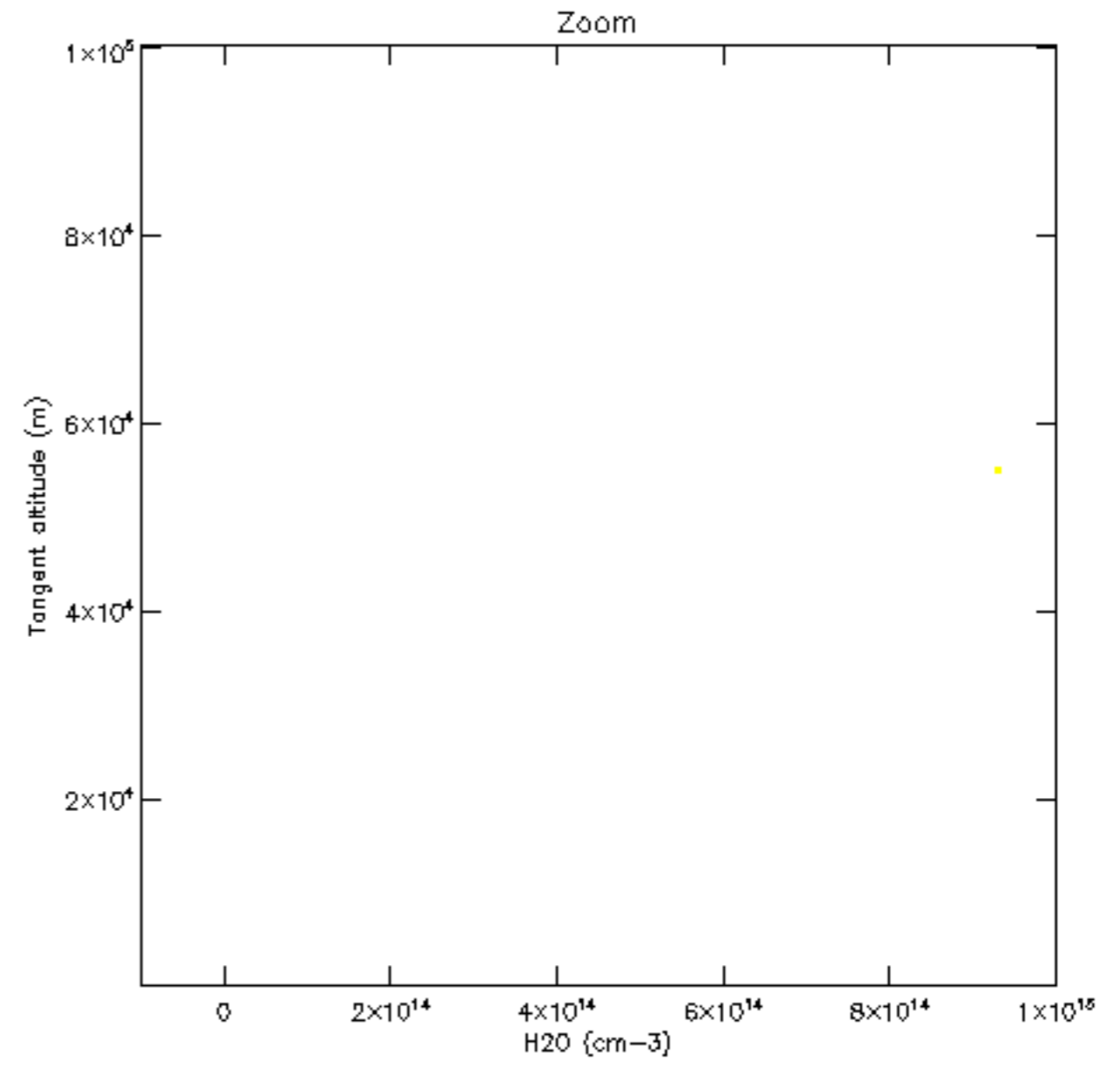
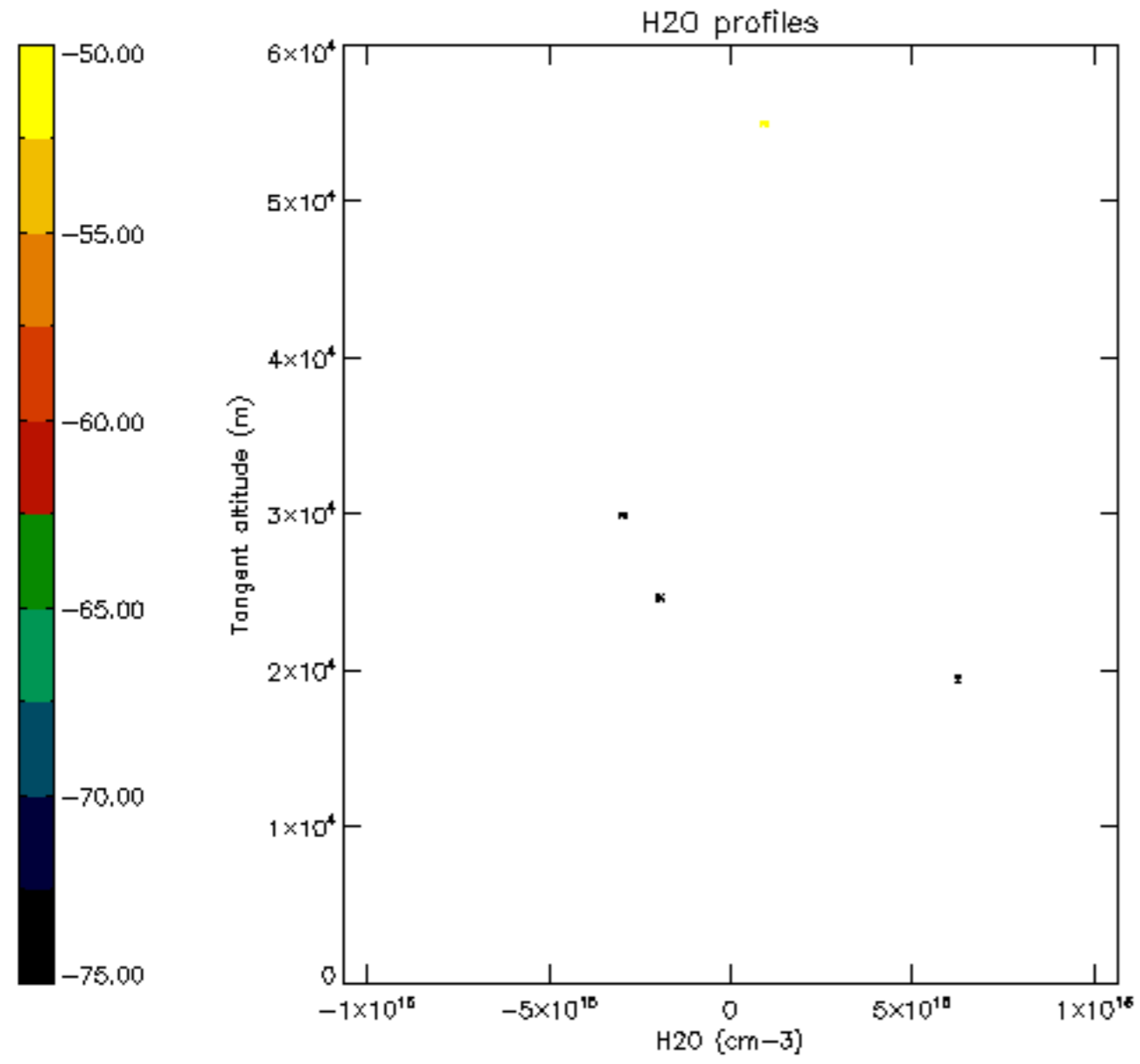


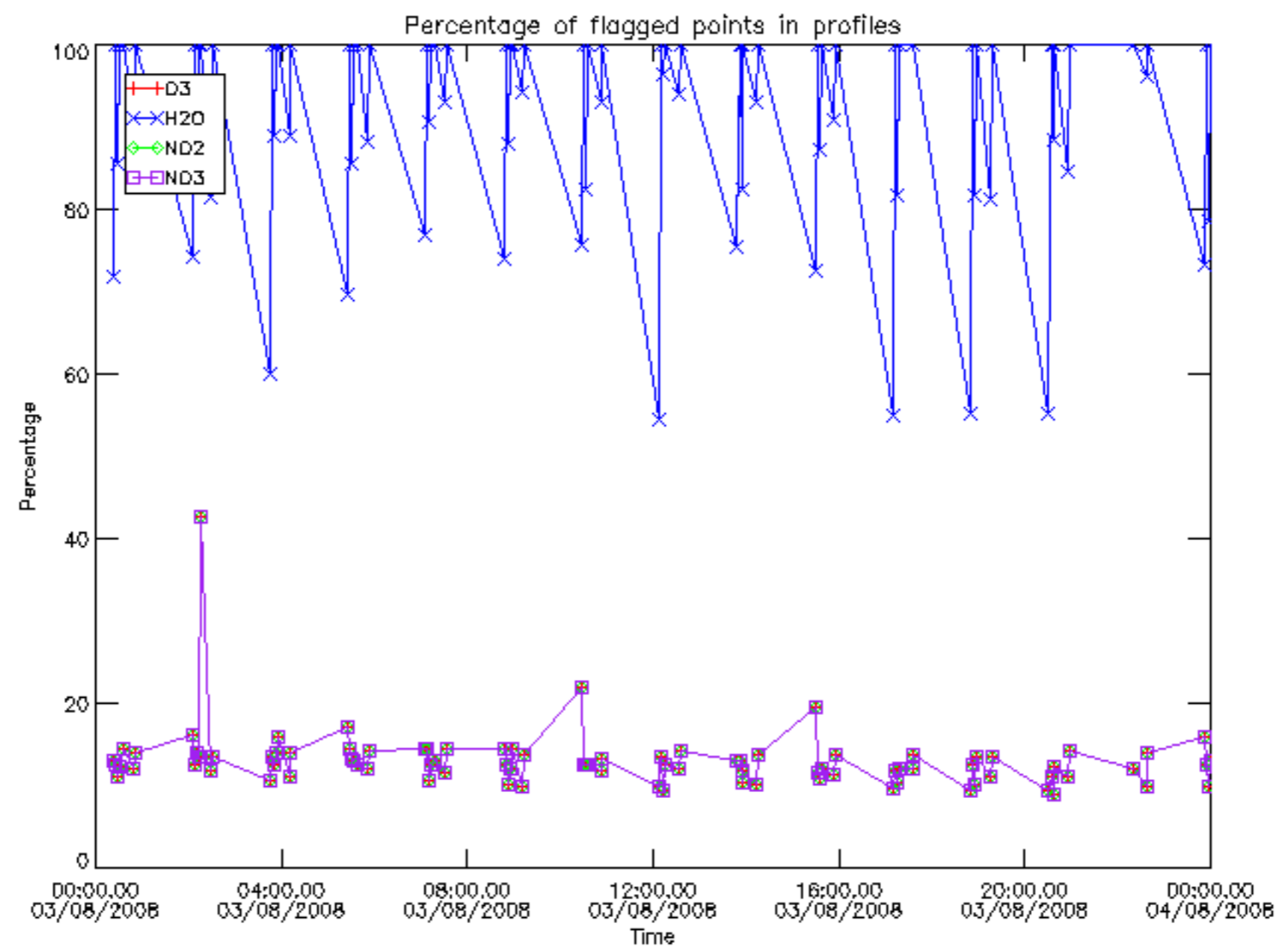




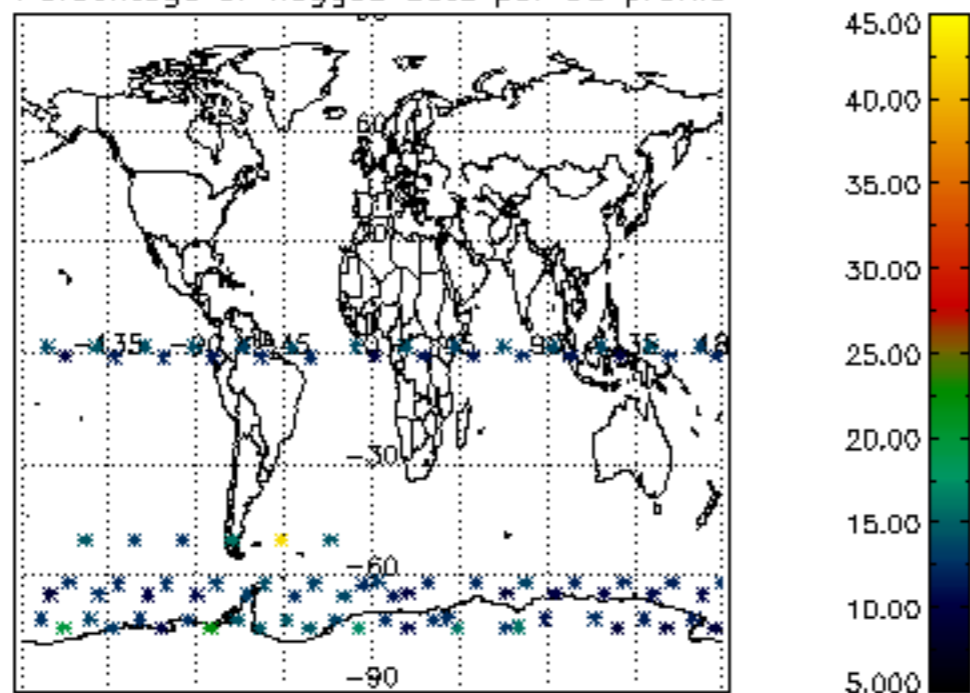




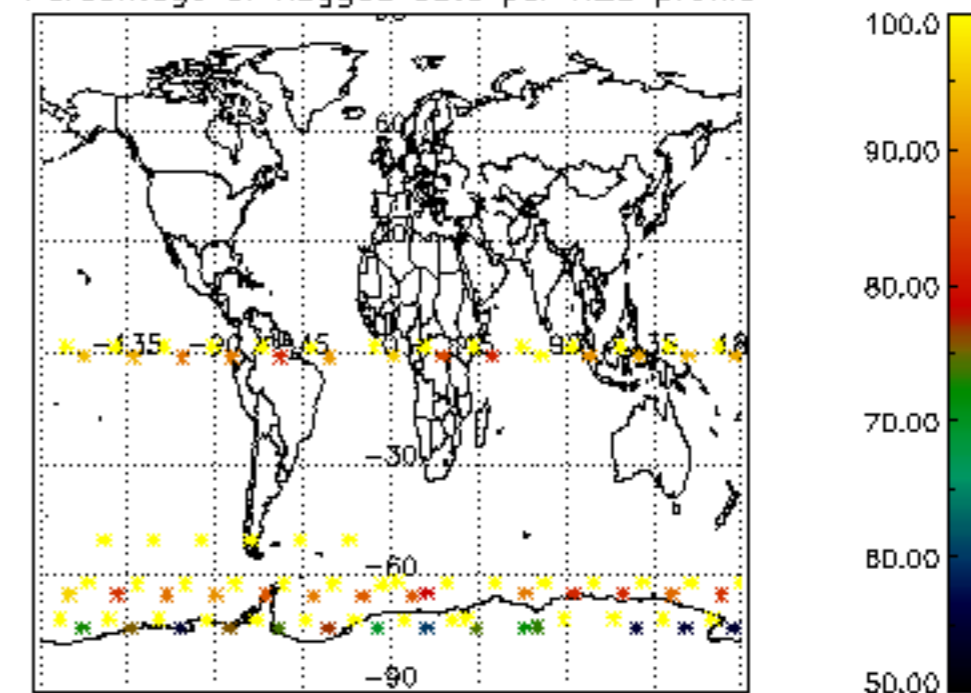




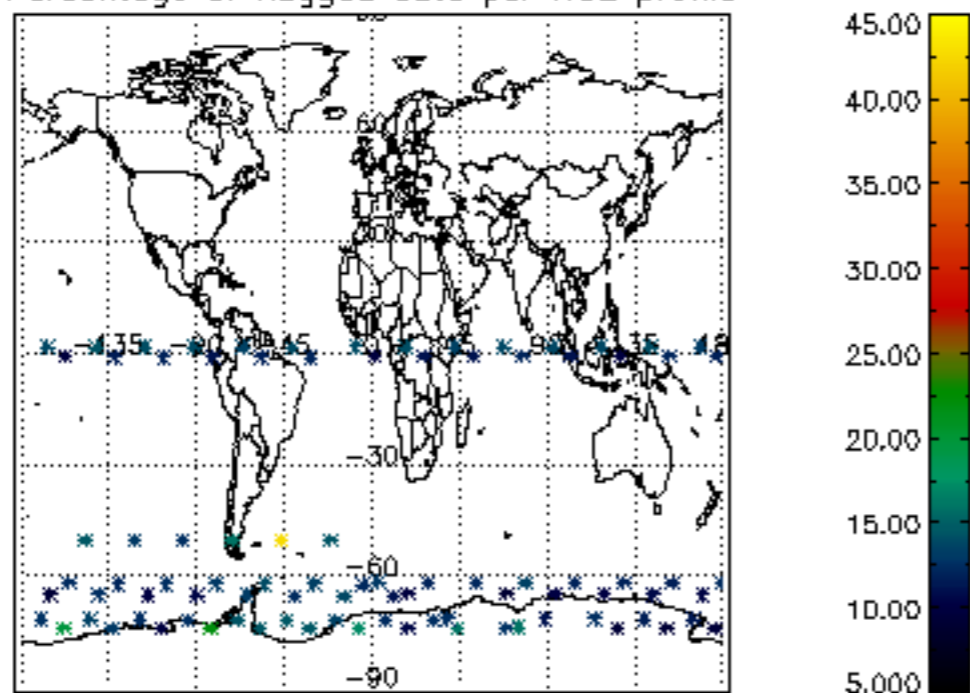
Percentage of flagged data per D3 profile



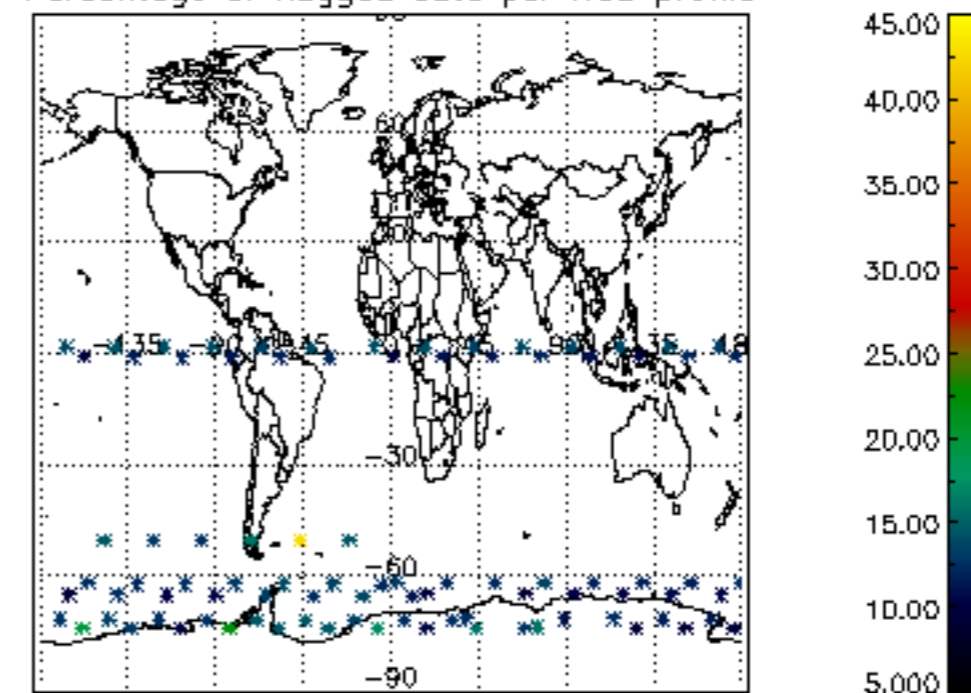
Percentage of flagged data per H2O profile

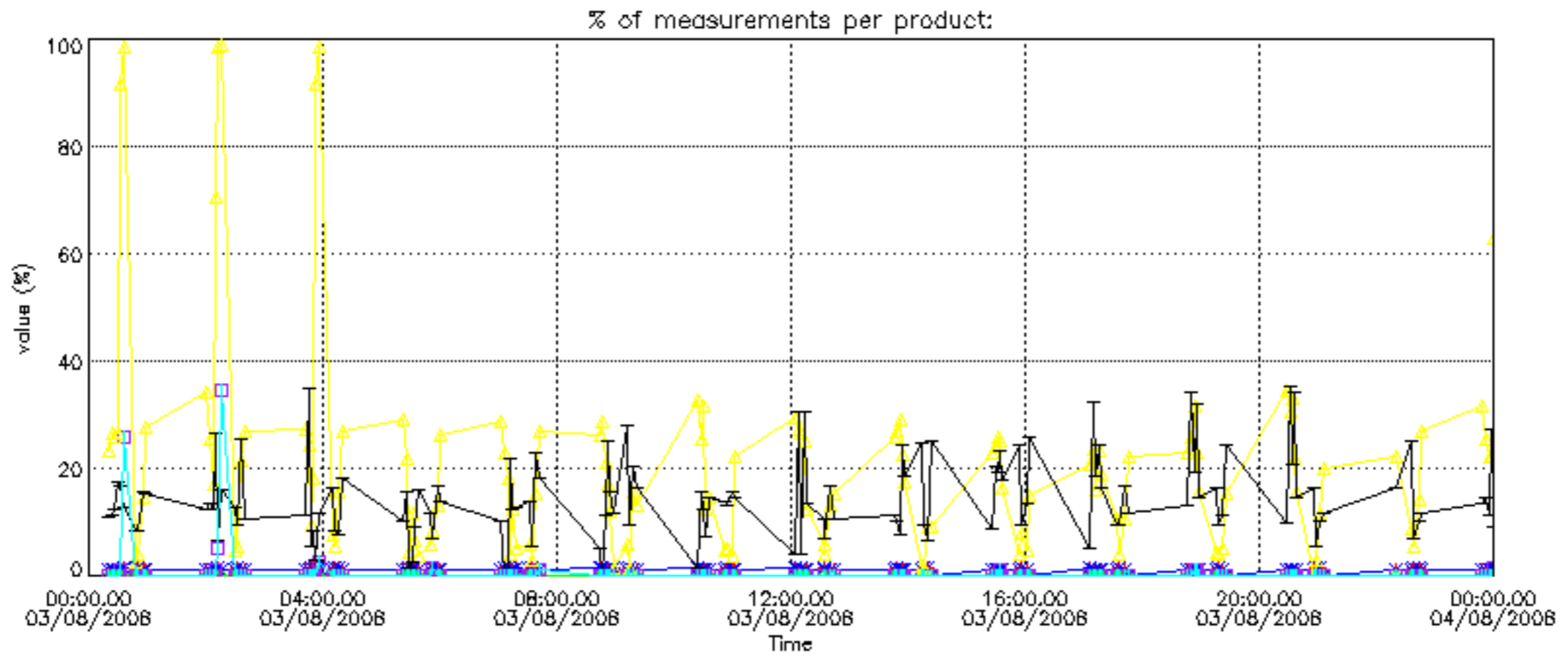


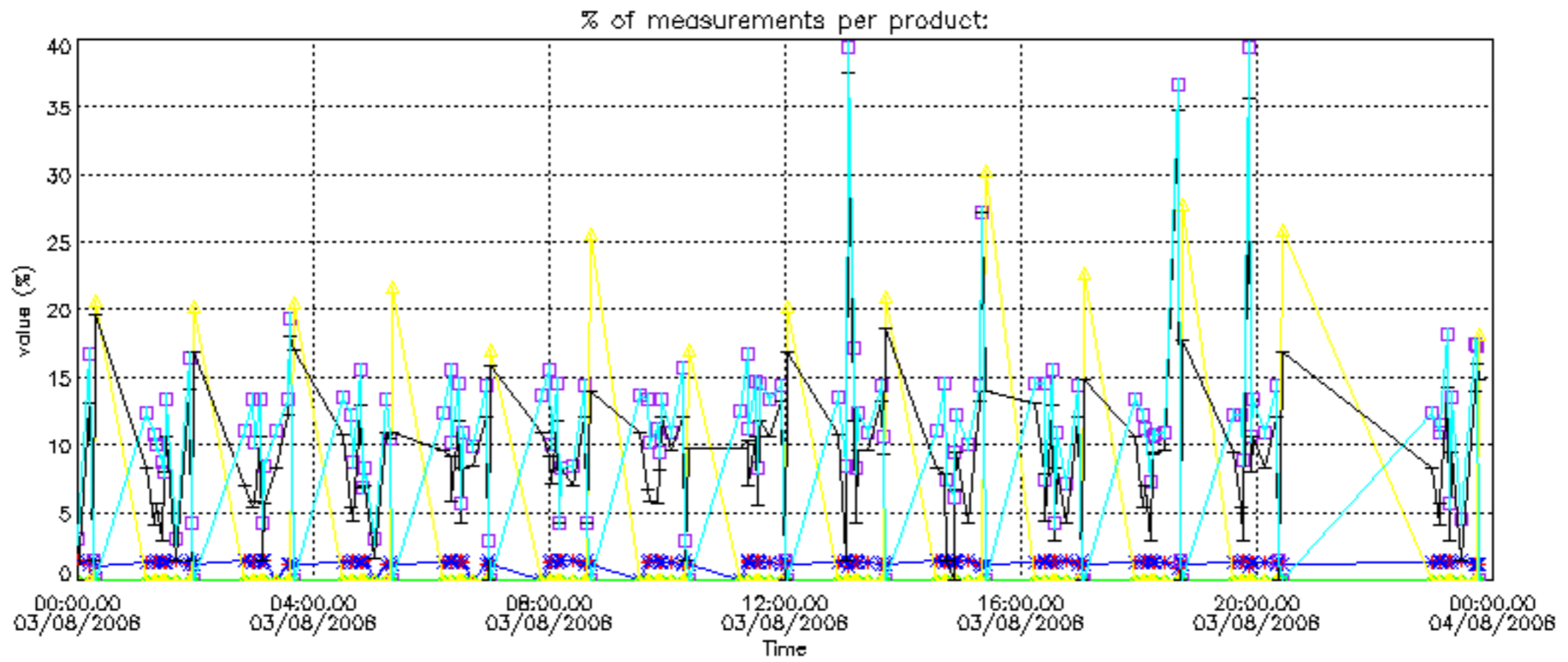
Percentage of flagged data per NO2 profile



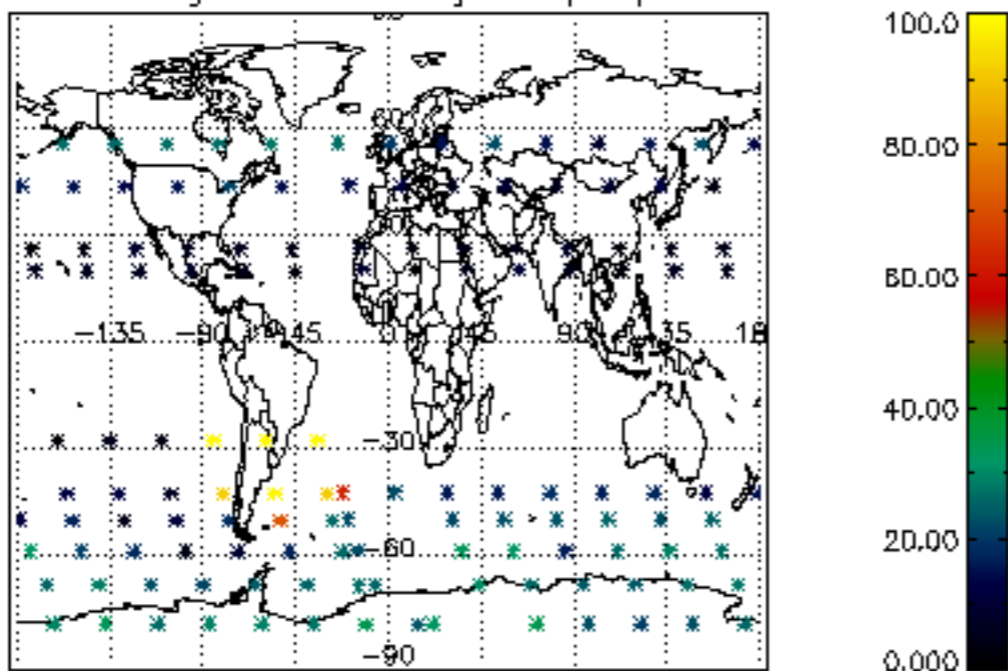
Percentage of flagged data per NO3 profile



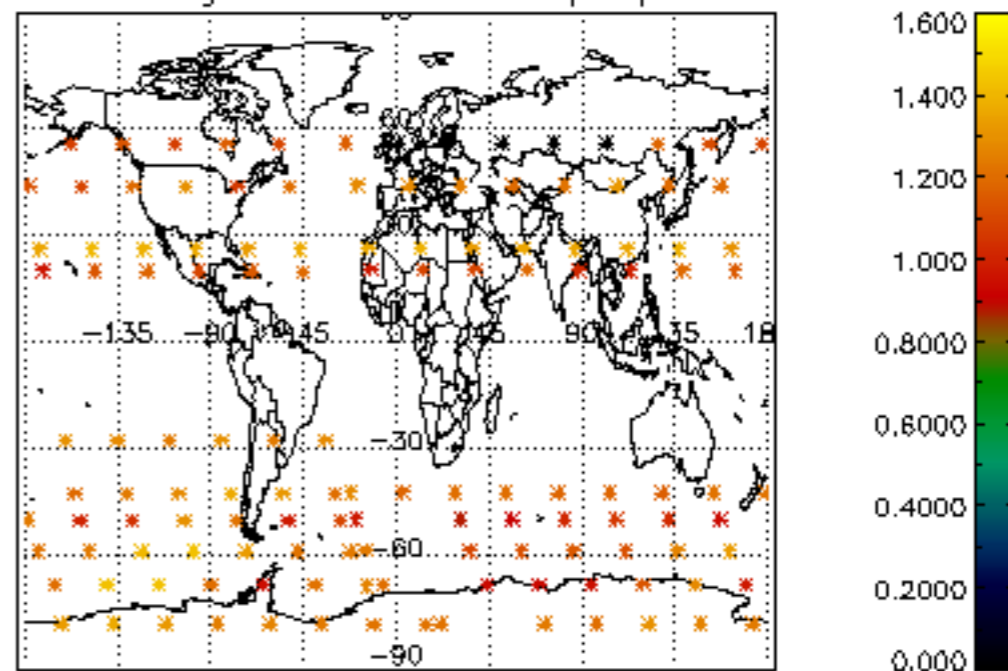




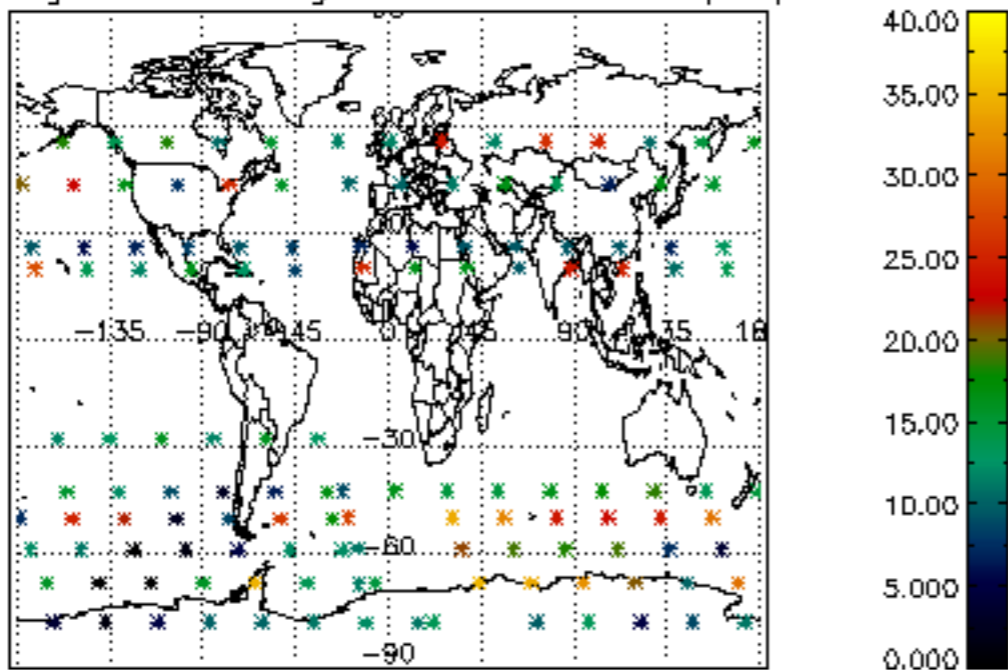
Percentage of cosmic ray hits per profile



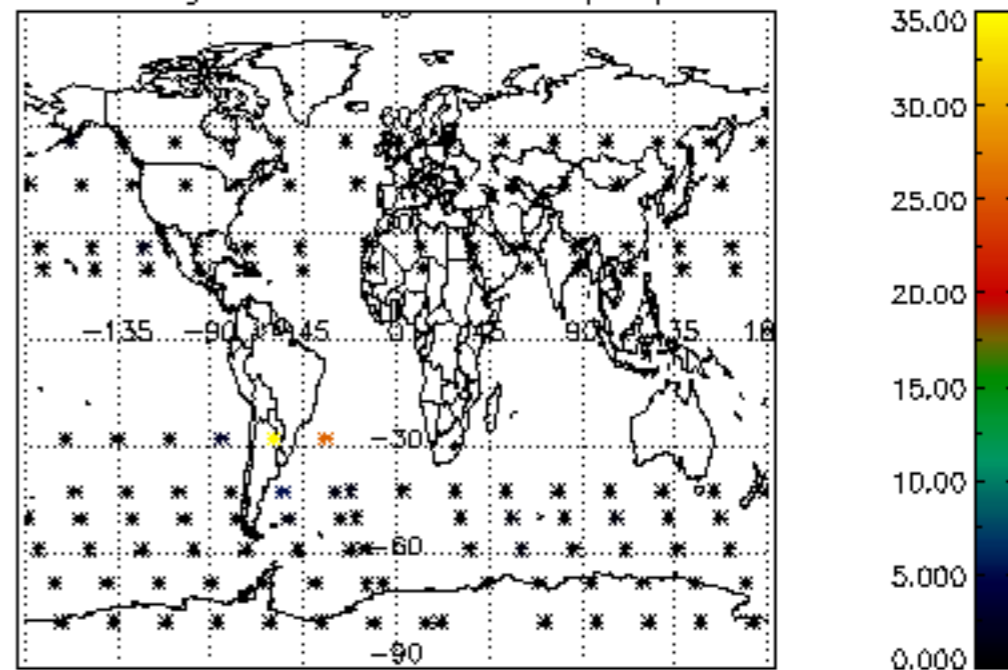
Percentage of datation errors per profile



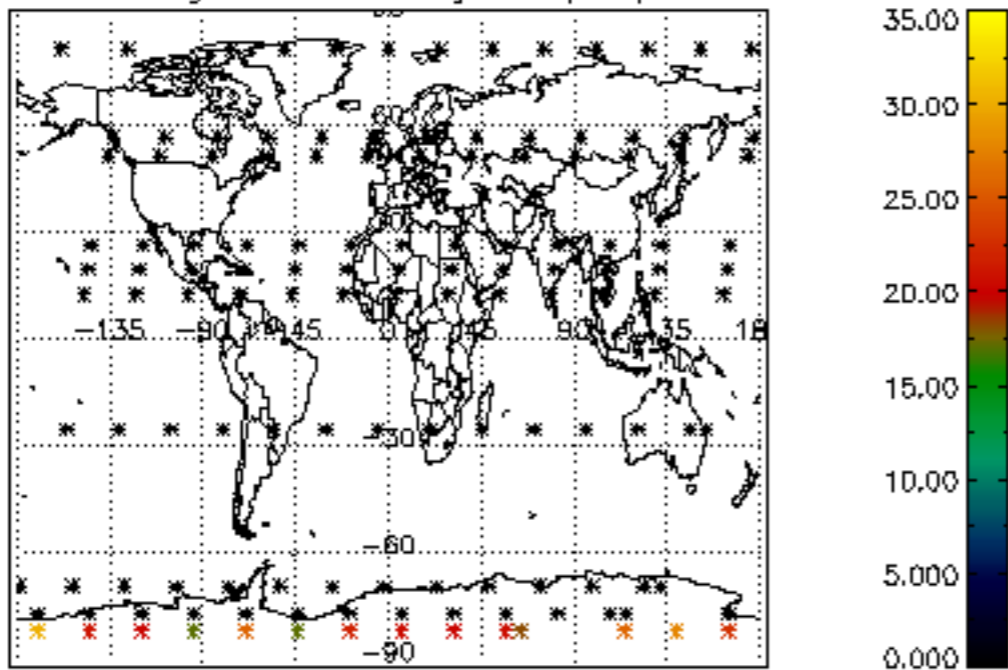
Percentage of star falling outside central band per profile



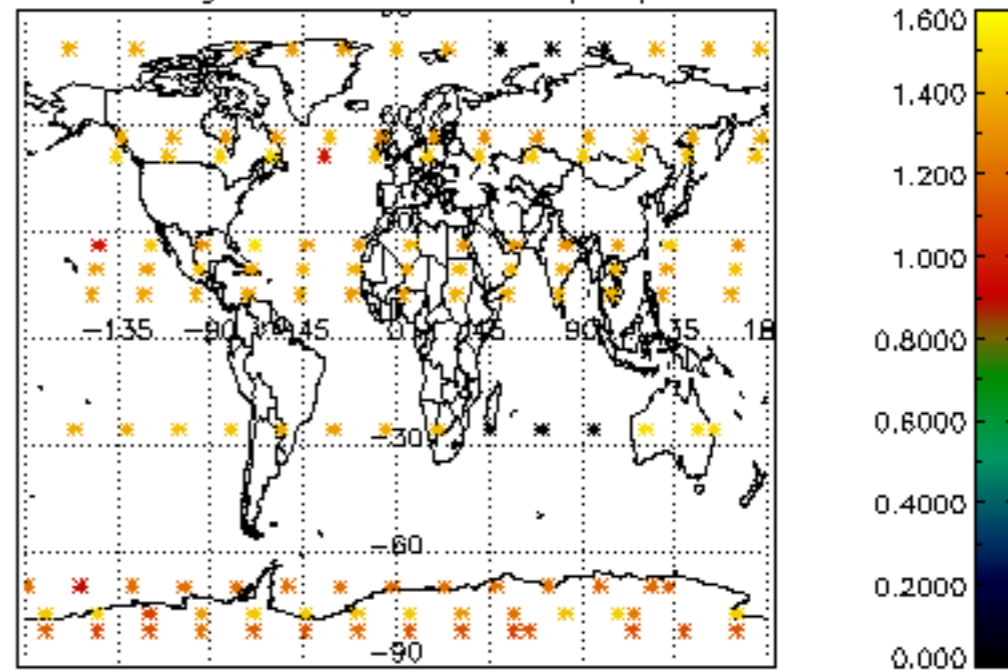
Percentage of saturation errors per profile



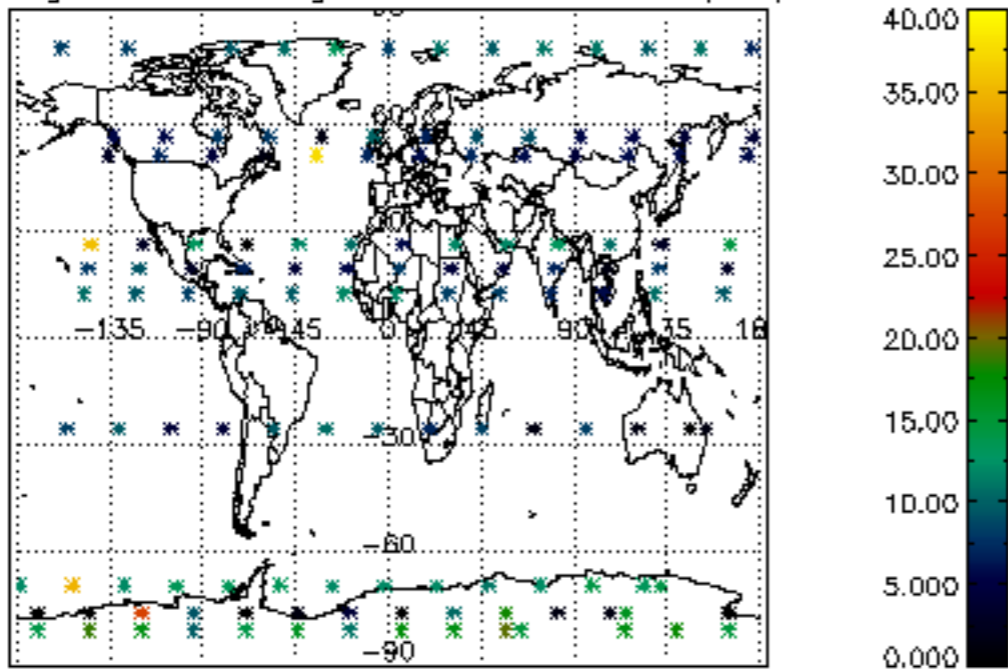
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

