

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	26APR2013 11:58:06
Data source version	GOMOS/6.01
Start time of products	19-08-2009 (19AUG2009 00:00:00)
Stop time of products	20-08-2009 (20AUG2009 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	266
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

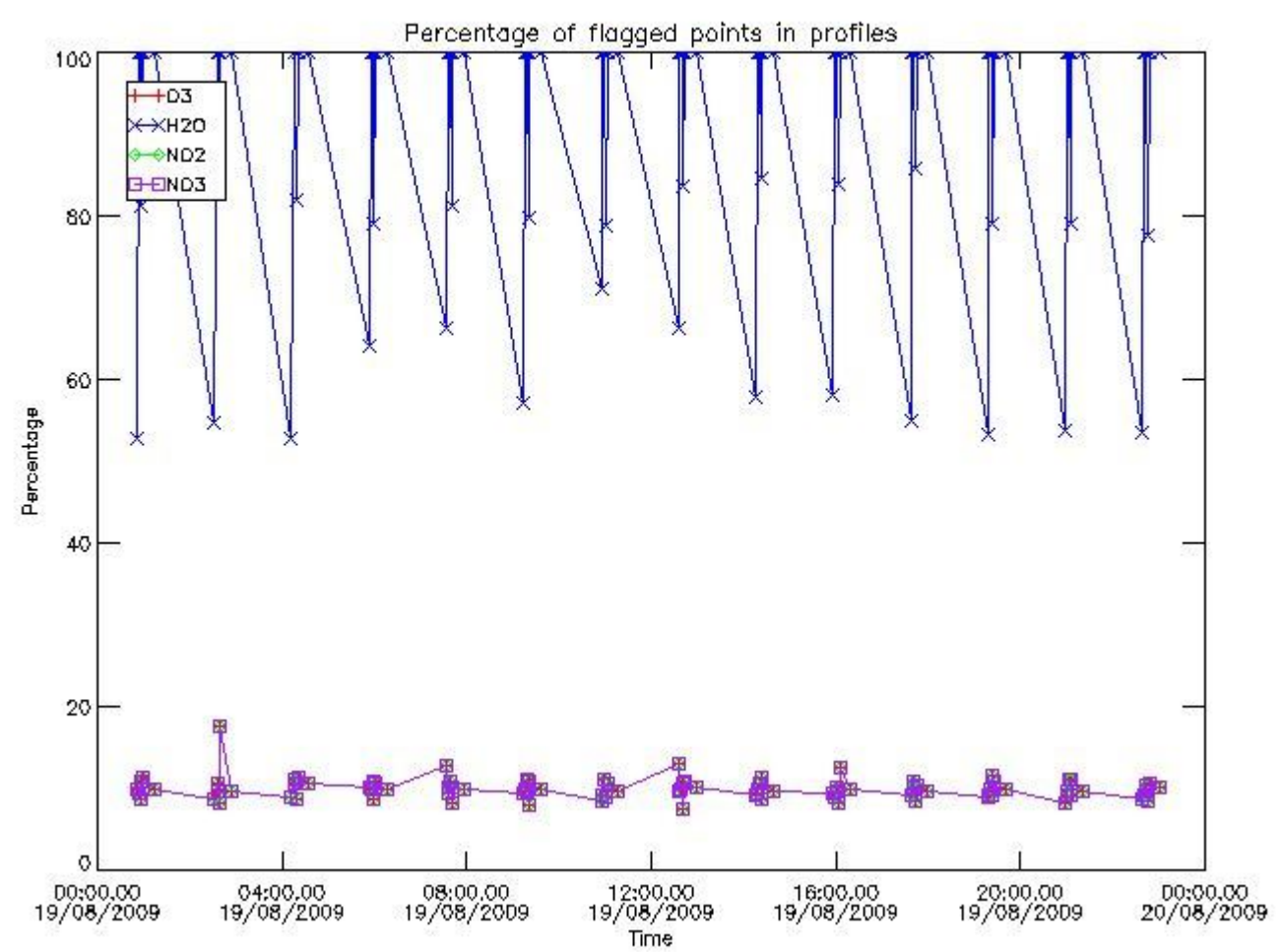
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20090819_000029_000000462081_00417_39048_9315.N1	19-AUG-2009 00:00:29	Bright	45.500	162	34Alp Aqr	2.9440	5350.0	91	39048	No
2	GOM_NL__2PRFIN20090819_000338_000000432081_00417_39048_9316.N1	19-AUG-2009 00:03:38	Bright	43.000	61	8Eps Peg	2.1000	3900.0	86	39048	No
3	GOM_NL__2PRFIN20090819_002309_000000492081_00417_39048_9317.N1	19-AUG-2009 00:23:09	Bright	49.000	74	11Bet Cas	2.2680	6600.0	98	39048	No
4	GOM_NL__2PRFIN20090819_002438_000000402081_00417_39048_9318.N1	19-AUG-2009 00:24:38	Bright	40.000	68	18Alp Cas	2.2250	4500.0	80	39048	No
5	GOM_NL__2PRFIN20090819_002645_000000482081_00417_39048_9319.N1	19-AUG-2009 00:26:45	Bright	48.000	110	37Del Cas	2.6780	8900.0	96	39048	No
6	GOM_NL__2PRFIN20090819_003825_000000542081_00417_39048_9320.N1	19-AUG-2009 00:38:25	Bright	53.500	6	13Alp Aur	0.080000	3400.0	107	39048	No
7	GOM_NL__2PRFIN20090819_004125_000000422081_00417_39048_9321.N1	19-AUG-2009 00:41:25	Bright	42.000	107	37The Aur	2.6490	11000.	84	39048	No
8	GOM_NL__2PRFIN20090819_004437_000000532081_00417_39048_9322.N1	19-AUG-2009 00:44:37	Twilight	53.000	28	12Bet Tau	1.6500	15200.	106	39048	No
9	GOM_NL__2PRFIN20090819_004704_000000492081_00417_39048_9323.N1	19-AUG-2009 00:47:04	Twilight	48.500	176	23Zet Tau	3.0200	22000.	97	39048	No
10	GOM_NL__2PRFIN20090819_005106_000000622081_00417_39048_9324.N1	19-AUG-2009 00:51:06	Dark	62.000	14	58Alp Ori	0.87000	3000.0	124	39048	No
11	GOM_NL__2PRFIN20090819_005426_000000552081_00417_39048_9325.N1	19-AUG-2009 00:54:26	Dark	54.500	30	46Eps Ori	1.6940	30000.	109	39048	No
12	GOM_NL__2PRFIN20090819_005552_000000472081_00417_39048_9326.N1	19-AUG-2009 00:55:52	Dark	47.000	125	44lot Ori	2.7700	30000.	94	39048	No
13	GOM_NL__2PRFIN20090819_005733_000000642081_00417_39048_9327.N1	19-AUG-2009 00:57:33	Dark	64.000	7	19Bet Ori	0.10000	14000.	128	39048	No
14	GOM_NL__2PRFIN20090819_005920_000000492081_00417_39048_9328.N1	19-AUG-2009 00:59:20	Dark	49.000	101	11Alp Lep	2.5820	7000.0	98	39048	No
15	GOM_NL__2PRFIN20090819_011331_000000512081_00418_39049_9329.N1	19-AUG-2009 01:13:31	Dark	51.000	157	The1Eri	2.9060	9300.0	102	39049	No
16	GOM_NL__2PRFIN20090819_012306_000000552081_00418_39049_9330.N1	19-AUG-2009 01:23:06	Straylight	54.500	84	Alp Phe	2.3970	4500.0	109	39049	No
17	GOM_NL__2PRFIN20090819_013020_000000532081_00418_39049_9331.N1	19-AUG-2009 01:30:20	Twilight	53.000	18	24Alp PsA	1.1660	9700.0	106	39049	No
18	GOM_NL__2PRFIN20090819_013548_000000452081_00418_39049_9332.N1	19-AUG-2009 01:35:48	Bright	44.500	142	49Del Cap	2.8500	8900.0	89	39049	No
19	GOM_NL__2PRFIN20090819_013911_000000412081_00418_39049_9333.N1	19-AUG-2009 01:39:11	Bright	41.000	154	22Bet Aqr	2.8990	5700.0	82	39049	No
20	GOM_NL__2PRFIN20090819_014105_000000442081_00418_39049_9334.N1	19-AUG-2009 01:41:05	Bright	44.000	162	34Alp Aqr	2.9440	5350.0	88	39049	No
21	GOM_NL__2PRFIN20090819_014413_000000452081_00418_39049_9335.N1	19-AUG-2009 01:44:13	Bright	44.500	61	8Eps Peg	2.1000	3900.0	89	39049	No
22	GOM_NL__2PRFIN20090819_020344_000000482081_00418_39049_9336.N1	19-AUG-2009 02:03:44	Bright	48.000	74	11Bet Cas	2.2680	6600.0	96	39049	No
23	GOM_NL__2PRFIN20090819_020513_000000402081_00418_39049_9337.N1	19-AUG-2009 02:05:13	Bright	40.000	68	18Alp Cas	2.2250	4500.0	80	39049	No
24	GOM_NL__2PRFIN20090819_020721_000000502081_00418_39049_9338.N1	19-AUG-2009 02:07:21	Bright	49.500	110	37Del Cas	2.6780	8900.0	99	39049	No
25	GOM_NL__2PRFIN20090819_021901_000000512081_00418_39049_9339.N1	19-AUG-2009 02:19:01	Bright	51.000	6	13Alp Aur	0.080000	3400.0	102	39049	No
26	GOM_NL__2PRFIN20090819_022201_000000422081_00418_39049_9340.N1	19-AUG-2009 02:22:01	Bright	41.500	107	37The Aur	2.6490	11000.	83	39049	No
27	GOM_NL__2PRFIN20090819_022513_000000542081_00418_39049_9341.N1	19-AUG-2009 02:25:13	Twilight	53.500	28	12Bet Tau	1.6500	15200.	107	39049	No
28	GOM_NL__2PRFIN20090819_022740_000000512081_00418_39049_9342.N1	19-AUG-2009 02:27:40	Twilight	50.500	176	23Zet Tau	3.0200	22000.	101	39049	No
29	GOM_NL__2PRFIN20090819_023143_000000592081_00418_39049_9343.N1	19-AUG-2009 02:31:43	Dark	59.000	14	58Alp Ori	0.87000	3000.0	118	39049	No
30	GOM_NL__2PRFIN20090819_023502_000000532081_00418_39049_9344.N1	19-AUG-2009 02:35:02	Dark	52.500	30	46Eps Ori	1.6940	30000.	105	39049	No
31	GOM_NL__2PRFIN20090819_023629_000000492081_00418_39049_9345.N1	19-AUG-2009 02:36:29	Dark	48.500	125	44lot Ori	2.7700	30000.	97	39049	No
32	GOM_NL__2PRFIN20090819_023810_000000682081_00418_39049_9346.N1	19-AUG-2009 02:38:10	Dark	68.000	7	19Bet Ori	0.10000	14000.	136	39049	No
33	GOM_NL__2PRFIN20090819_023957_000000492081_00418_39049_9347.N1	19-AUG-2009 02:39:57	Dark	49.000	101	11Alp Lep	2.5820	7000.0	98	39049	No
34	GOM_NL__2PRFIN20090819_025408_000000532081_00419_39050_9344.N1	19-AUG-2009 02:54:08	Dark	52.500	157	The1Eri	2.9060	9300.0	105	39050	No
35	GOM_NL__2PRFIN20090819_030343_000000552081_00419_39050_9345.N1	19-AUG-2009 03:03:43	Straylight	55.000	84	Alp Phe	2.3970	4500.0	110	39050	No
36	GOM_NL__2PRFIN20090819_031057_000000512081_00419_39050_9346.N1	19-AUG-2009 03:10:57	Twilight	51.000	18	24Alp PsA	1.1660	9700.0	102	39050	No
37	GOM_NL__2PRFIN20090819_031624_000000422081_00419_39050_9347.N1	19-AUG-2009 03:16:24	Bright	42.000	142	49Del Cap	2.8500	8900.0	84	39050	No
38	GOM_NL__2PRFIN20090819_031946_000000412081_00419_39050_9348.N1	19-AUG-2009 03:19:46	Bright	41.000	154	22Bet Aqr	2.8990	5700.0	82	39050	No
39	GOM_NL__2PRFIN20090819_032141_000000622081_00419_39050_9349.N1	19-AUG-2009 03:21:41	Bright	62.000	162	34Alp Aqr	2.9440	5350.0	124	39050	No
40	GOM_NL__2PRFIN20090819_032449_000000442081_00419_39050_9350.N1	19-AUG-2009 03:24:49	Bright	44.000	61	8Eps Peg	2.1000	3900.0	88	39050	No
41	GOM_NL__2PRFIN20090819_034420_000000452081_00419_39050_9351.N1	19-AUG-2009 03:44:20	Bright	44.500	74	11Bet Cas	2.2680	6600.0	89	39050	No
42	GOM_NL__2PRFIN20090819_034548_000000422081_00419_39050_9352.N1	19-AUG-2009 03:45:48	Bright	42.000	68	18Alp Cas	2.2250	4500.0	84	39050	No

220	GOM_NL__2PRFIN20090819_194020_000000522081_00429_39060_9505.N1	19-AUG-2009 19:40:20	Dark	52.000	157	The1Eri	2.9060	9300.0	104	39060	No
221	GOM_NL__2PRFIN20090819_194950_000000602081_00429_39060_9506.N1	19-AUG-2009 19:49:50	Straylight	59.500	84	Alp Phe	2.3970	4500.0	119	39060	No
222	GOM_NL__2PRFIN20090819_195700_000000502081_00429_39060_9507.N1	19-AUG-2009 19:57:00	Tw_i_and_stray	50.000	18	24Alp PsA	1.1660	9700.0	100	39060	No
223	GOM_NL__2PRFIN20090819_200224_000000422081_00429_39060_9508.N1	19-AUG-2009 20:02:24	Bright	42.000	142	49Del Cap	2.8500	8900.0	84	39060	No
224	GOM_NL__2PRFIN20090819_200546_000000412081_00429_39060_9509.N1	19-AUG-2009 20:05:46	Bright	41.000	154	22Bet Aqr	2.8990	5700.0	82	39060	No
225	GOM_NL__2PRFIN20090819_200738_000000462081_00429_39060_9510.N1	19-AUG-2009 20:07:38	Bright	45.500	162	34Alp Aqr	2.9440	5350.0	91	39060	No
226	GOM_NL__2PRFIN20090819_201046_000000432081_00429_39060_9511.N1	19-AUG-2009 20:10:46	Bright	43.000	61	8Eps Peg	2.1000	3900.0	86	39060	No
227	GOM_NL__2PRFIN20090819_203011_000000482081_00429_39060_9512.N1	19-AUG-2009 20:30:11	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	39060	No
228	GOM_NL__2PRFIN20090819_203347_000000482081_00429_39060_9513.N1	19-AUG-2009 20:33:47	Bright	47.500	110	37Del Cas	2.6780	8900.0	95	39060	No
229	GOM_NL__2PRFIN20090819_204535_000000552081_00429_39060_9514.N1	19-AUG-2009 20:45:35	Bright	54.500	6	13Alp Aur	0.080000	3400.0	109	39060	No
230	GOM_NL__2PRFIN20090819_204837_000000462081_00429_39060_9515.N1	19-AUG-2009 20:48:37	Bright	45.500	107	37The Aur	2.6490	11000.	91	39060	No
231	GOM_NL__2PRFIN20090819_205151_000000532081_00429_39060_9516.N1	19-AUG-2009 20:51:51	Tw_i_and_stray	52.500	28	12Bet Tau	1.6500	15200.	105	39060	No
232	GOM_NL__2PRFIN20090819_205419_000000512081_00429_39060_9517.N1	19-AUG-2009 20:54:19	Tw_i_and_stray	51.000	176	23Zet Tau	3.0200	22000.	102	39060	No
233	GOM_NL__2PRFIN20090819_205823_000000622081_00429_39060_9518.N1	19-AUG-2009 20:58:23	Dark	62.000	14	58Alp Ori	0.87000	3000.0	124	39060	No
234	GOM_NL__2PRFIN20090819_205948_000000552081_00429_39060_9519.N1	19-AUG-2009 20:59:48	Dark	55.000	27	24Gam Ori	1.6360	26000.	110	39060	No
235	GOM_NL__2PRFIN20090819_210145_000000542081_00429_39060_9520.N1	19-AUG-2009 21:01:45	Dark	53.500	30	46Eps Ori	1.6940	30000.	107	39060	No
236	GOM_NL__2PRFIN20090819_210312_000000462081_00429_39060_9521.N1	19-AUG-2009 21:03:12	Dark	45.500	125	44Iot Ori	2.7700	30000.	91	39060	No
237	GOM_NL__2PRFIN20090819_210456_000000552081_00429_39060_9522.N1	19-AUG-2009 21:04:56	Dark	55.000	7	19Bet Ori	0.10000	14000.	110	39060	No
238	GOM_NL__2PRFIN20090819_210640_000000462081_00429_39060_9523.N1	19-AUG-2009 21:06:40	Dark	45.500	101	11Alp Lep	2.5820	7000.0	91	39060	No
239	GOM_NL__2PRFIN20090819_212057_000000542081_00430_39061_9539.N1	19-AUG-2009 21:20:57	Dark	53.500	157	The1Eri	2.9060	9300.0	107	39061	No
240	GOM_NL__2PRFIN20090819_213027_000000502081_00430_39061_9540.N1	19-AUG-2009 21:30:27	Straylight	49.500	84	Alp Phe	2.3970	4500.0	99	39061	No
241	GOM_NL__2PRFIN20090819_213736_000000522081_00430_39061_9541.N1	19-AUG-2009 21:37:36	Tw_i_and_stray	51.500	18	24Alp PsA	1.1660	9700.0	103	39061	No
242	GOM_NL__2PRFIN20090819_214300_000000412081_00430_39061_9542.N1	19-AUG-2009 21:43:00	Bright	41.000	142	49Del Cap	2.8500	8900.0	82	39061	No
243	GOM_NL__2PRFIN20090819_214622_000000402081_00430_39061_9543.N1	19-AUG-2009 21:46:22	Bright	40.000	154	22Bet Aqr	2.8990	5700.0	80	39061	No
244	GOM_NL__2PRFIN20090819_214814_000000452081_00430_39061_9544.N1	19-AUG-2009 21:48:14	Bright	45.000	162	34Alp Aqr	2.9440	5350.0	90	39061	No
245	GOM_NL__2PRFIN20090819_215121_000000432081_00430_39061_9545.N1	19-AUG-2009 21:51:21	Bright	42.500	61	8Eps Peg	2.1000	3900.0	85	39061	No
246	GOM_NL__2PRFIN20090819_221047_000000442081_00430_39061_9546.N1	19-AUG-2009 22:10:47	Bright	44.000	74	11Bet Cas	2.2680	6600.0	88	39061	No
247	GOM_NL__2PRFIN20090819_221422_000000472081_00430_39061_9547.N1	19-AUG-2009 22:14:22	Bright	47.000	110	37Del Cas	2.6780	8900.0	94	39061	No
248	GOM_NL__2PRFIN20090819_222610_000000532081_00430_39061_9548.N1	19-AUG-2009 22:26:10	Bright	52.500	6	13Alp Aur	0.080000	3400.0	105	39061	No
249	GOM_NL__2PRFIN20090819_222913_000000422081_00430_39061_9549.N1	19-AUG-2009 22:29:13	Bright	41.500	107	37The Aur	2.6490	11000.	83	39061	No
250	GOM_NL__2PRFIN20090819_223227_000000582081_00430_39061_9550.N1	19-AUG-2009 22:32:27	Tw_i_and_stray	58.000	28	12Bet Tau	1.6500	15200.	116	39061	No
251	GOM_NL__2PRFIN20090819_223455_000000492081_00430_39061_9551.N1	19-AUG-2009 22:34:55	Tw_i_and_stray	49.000	176	23Zet Tau	3.0200	22000.	98	39061	No
252	GOM_NL__2PRFIN20090819_223900_000000602081_00430_39061_9552.N1	19-AUG-2009 22:39:00	Dark	59.500	14	58Alp Ori	0.87000	3000.0	119	39061	No
253	GOM_NL__2PRFIN20090819_224024_000000562081_00430_39061_9553.N1	19-AUG-2009 22:40:24	Dark	55.500	27	24Gam Ori	1.6360	26000.	111	39061	No
254	GOM_NL__2PRFIN20090819_224222_000000542081_00430_39061_9554.N1	19-AUG-2009 22:42:22	Dark	53.500	30	46Eps Ori	1.6940	30000.	107	39061	No
255	GOM_NL__2PRFIN20090819_224349_000000502081_00430_39061_9555.N1	19-AUG-2009 22:43:49	Dark	49.500	125	44Iot Ori	2.7700	30000.	99	39061	No
256	GOM_NL__2PRFIN20090819_224532_000000612081_00430_39061_9556.N1	19-AUG-2009 22:45:32	Dark	61.000	7	19Bet Ori	0.10000	14000.	122	39061	No
257	GOM_NL__2PRFIN20090819_224717_000000492081_00430_39061_9557.N1	19-AUG-2009 22:47:17	Dark	48.500	101	11Alp Lep	2.5820	7000.0	97	39061	No
258	GOM_NL__2PRFIN20090819_230134_000000502081_00431_39062_9553.N1	19-AUG-2009 23:01:34	Dark	50.000	157	The1Eri	2.9060	9300.0	100	39062	No
259	GOM_NL__2PRFIN20090819_231103_000000592081_00431_39062_9554.N1	19-AUG-2009 23:11:03	Straylight	59.000	84	Alp Phe	2.3970	4500.0	118	39062	No
260	GOM_NL__2PRFIN20090819_231812_000000512081_00431_39062_9555.N1	19-AUG-2009 23:18:12	Tw_i_and_stray	50.500	18	24Alp PsA	1.1660	9700.0	101	39062	No
261	GOM_NL__2PRFIN20090819_232336_000000432081_00431_39062_9556.N1	19-AUG-2009 23:23:36	Bright	42.500	142	49Del Cap	2.8500	8900.0	85	39062	No
262	GOM_NL__2PRFIN20090819_232658_000000542081_00431_39062_9557.N1	19-AUG-2009 23:26:58	Bright	53.500	154	22Bet Aqr	2.8990	5700.0	107	39062	No
263	GOM_NL__2PRFIN20090819_232850_000000472081_00431_39062_9558.N1	19-AUG-2009 23:28:50	Bright	46.500	162	34Alp Aqr	2.9440	5350.0	93	39062	No
264	GOM_NL__2PRFIN20090819_233157_000000422081_00431_39062_9559.N1	19-AUG-2009 23:31:57	Bright	42.000	61	8Eps Peg	2.1000	3900.0	84	39062	No
265	GOM_NL__2PRFIN20090819_235121_000000482081_00431_39062_9560.N1	19-AUG-2009 23:51:21	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	39062	No
266	GOM_NL__2PRFIN20090819_235336_000000462081_00431_39062_9561.N1	19-AUG-2009 23:53:36	Bright	45.500	76	27Gam Cas	2.3000	30000.	91	39062	No

3. Quality information per product

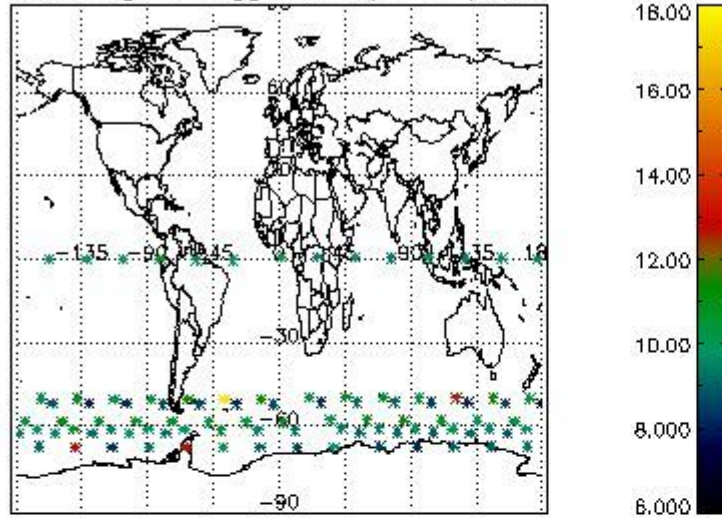
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

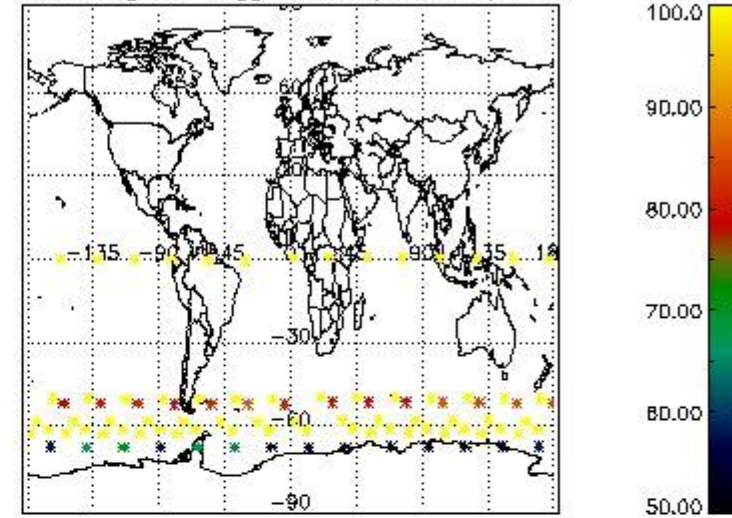


3.2 Plot quality information per product (world map)

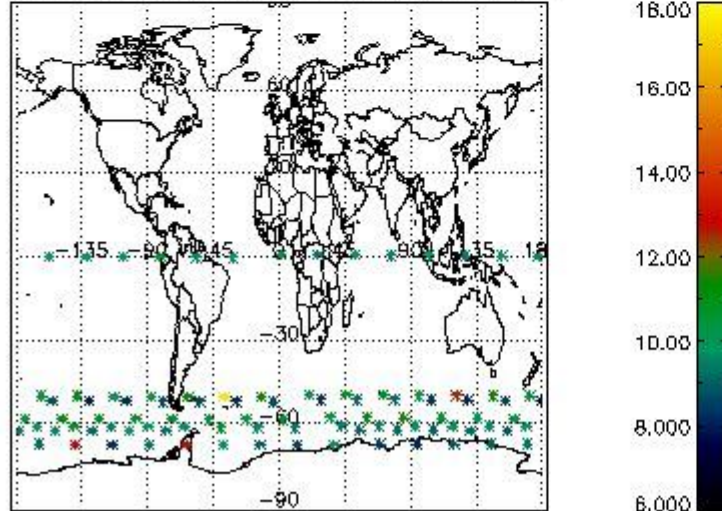
Percentage of flagged data per O3 profile



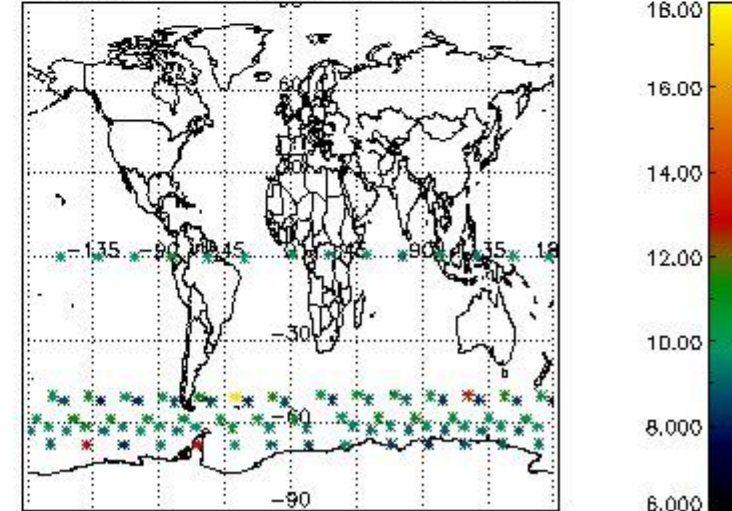
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

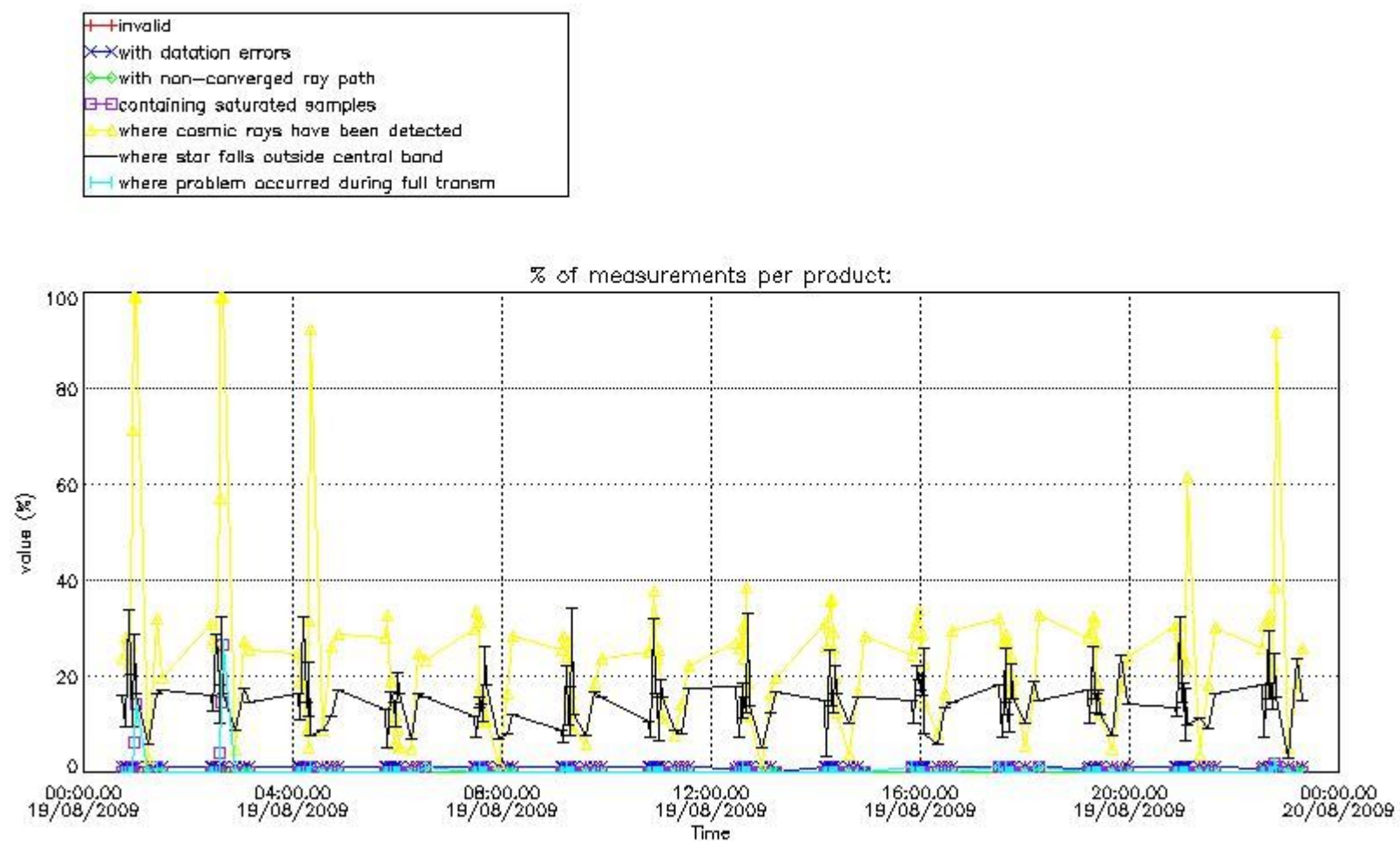


4. Level 1 quality information per product

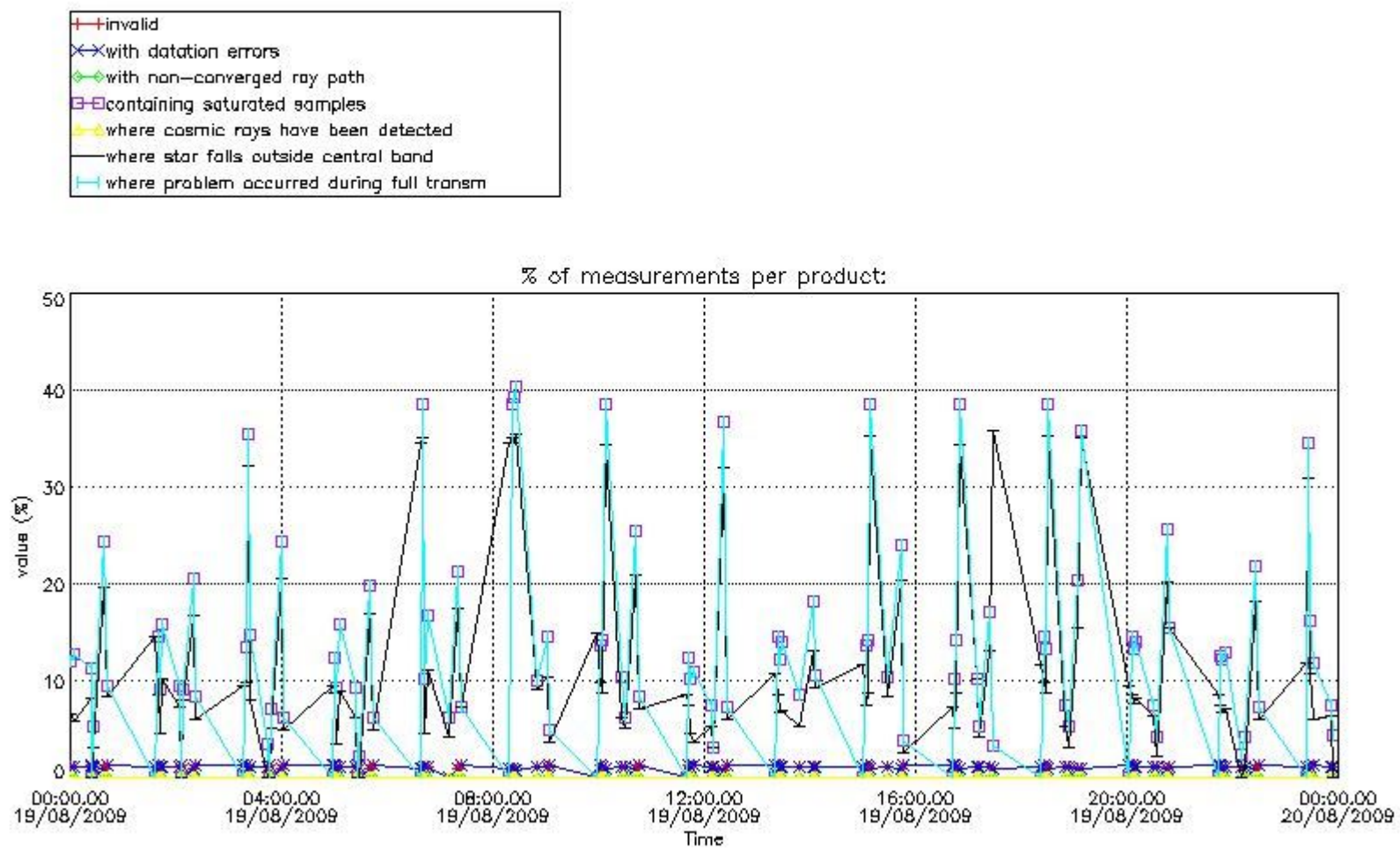
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



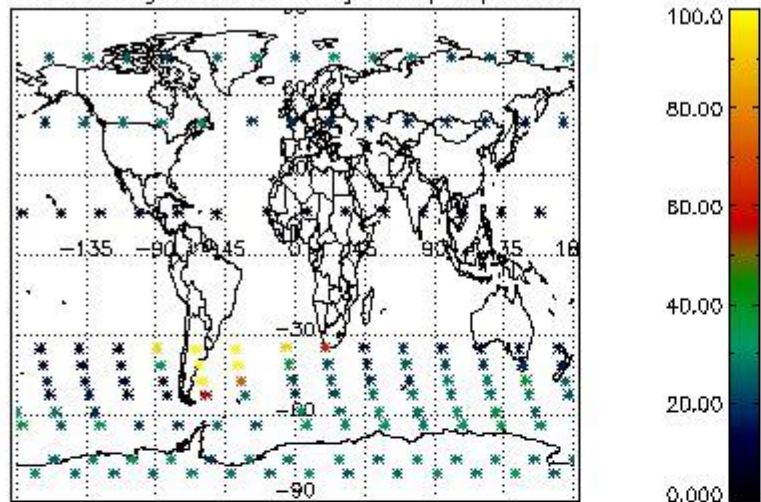
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



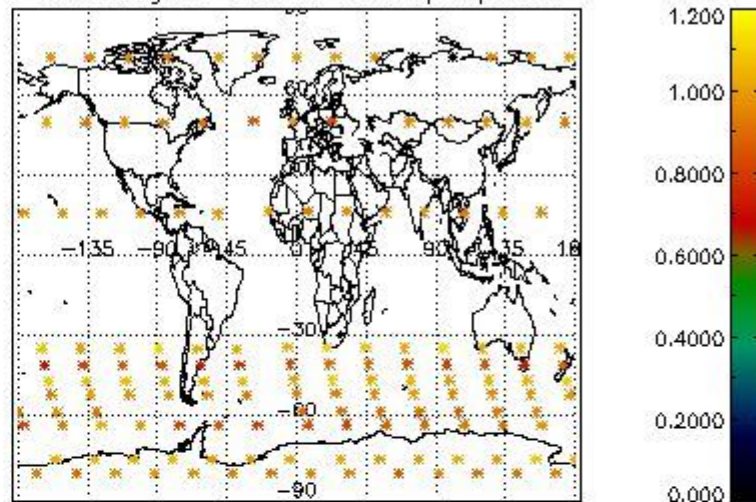
4.2 Plot quality information per product coming from level 1b processing (world map)

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

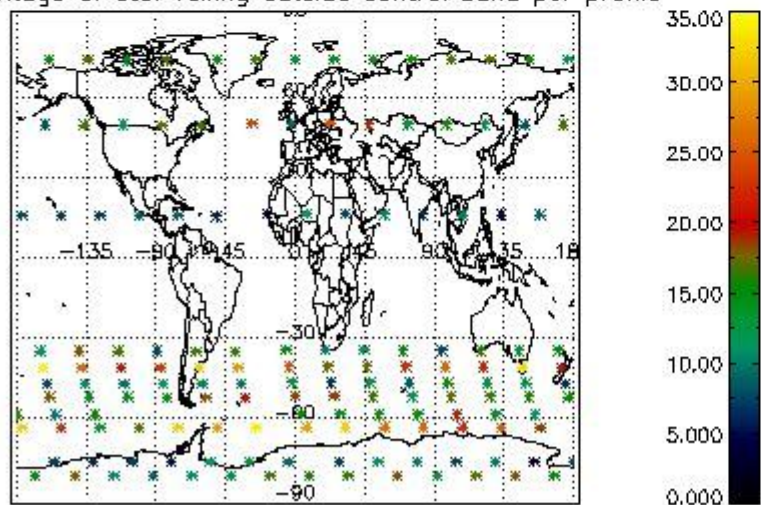
Percentage of cosmic ray hits per profile



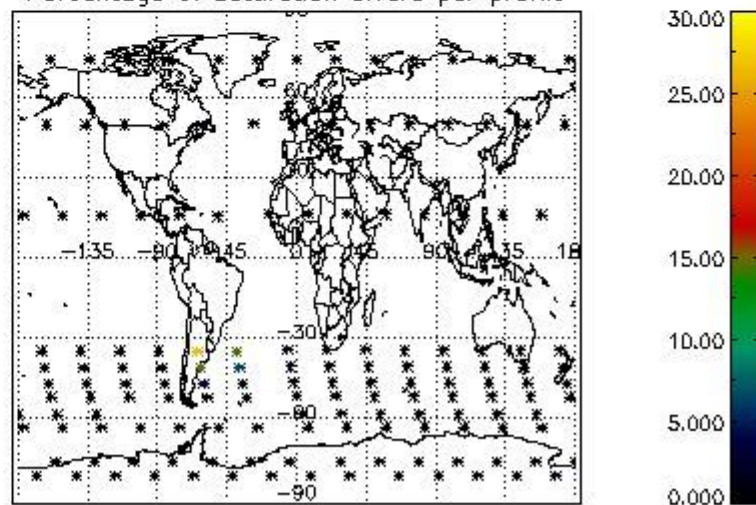
Percentage of datation errors per profile



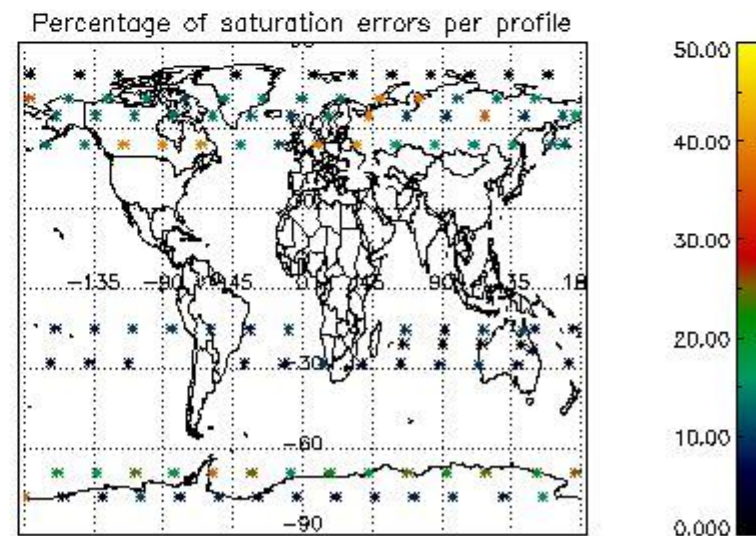
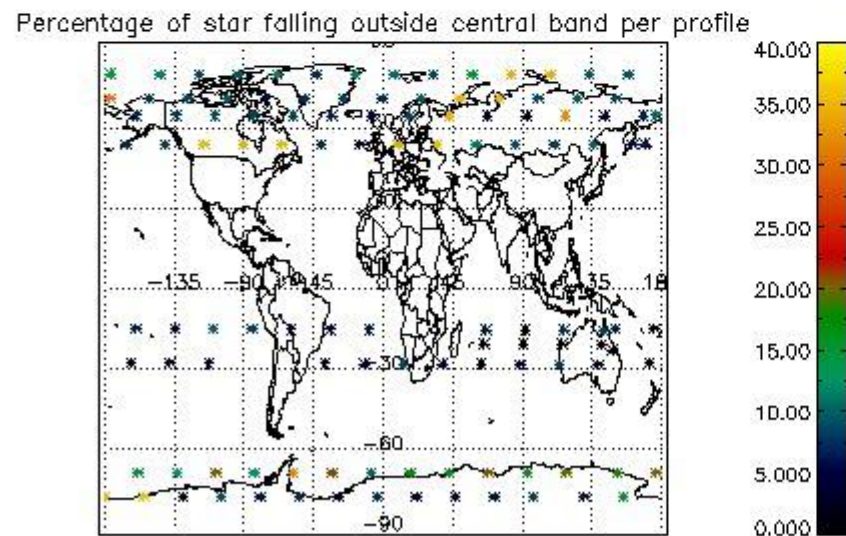
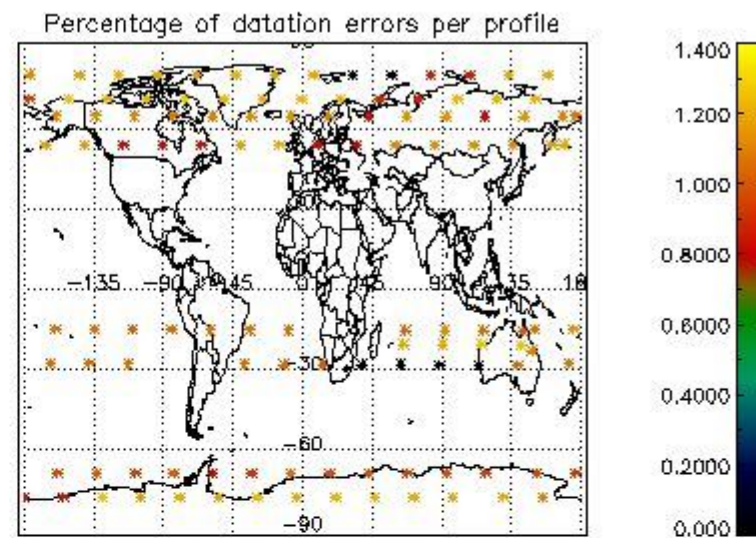
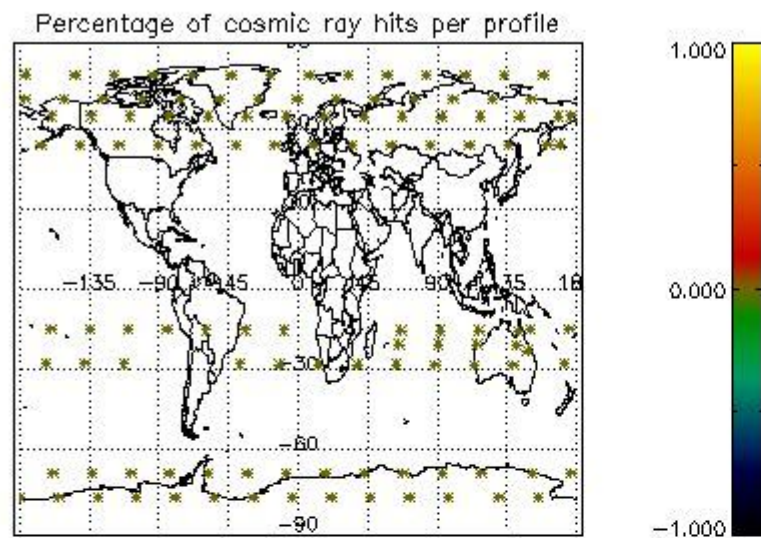
Percentage of star falling outside central band per profile



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

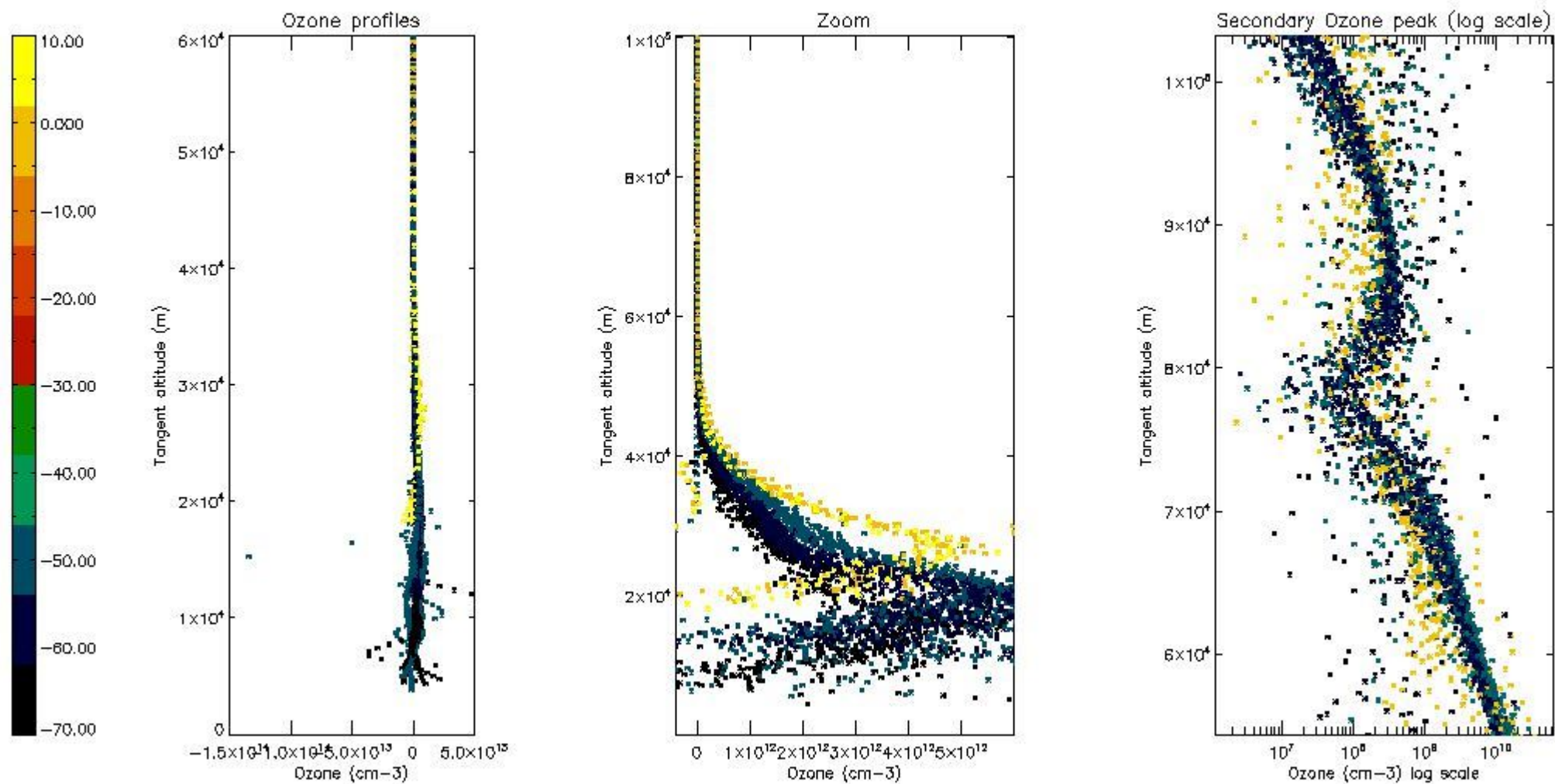
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	21

STD < 10	16
STD < 5	11

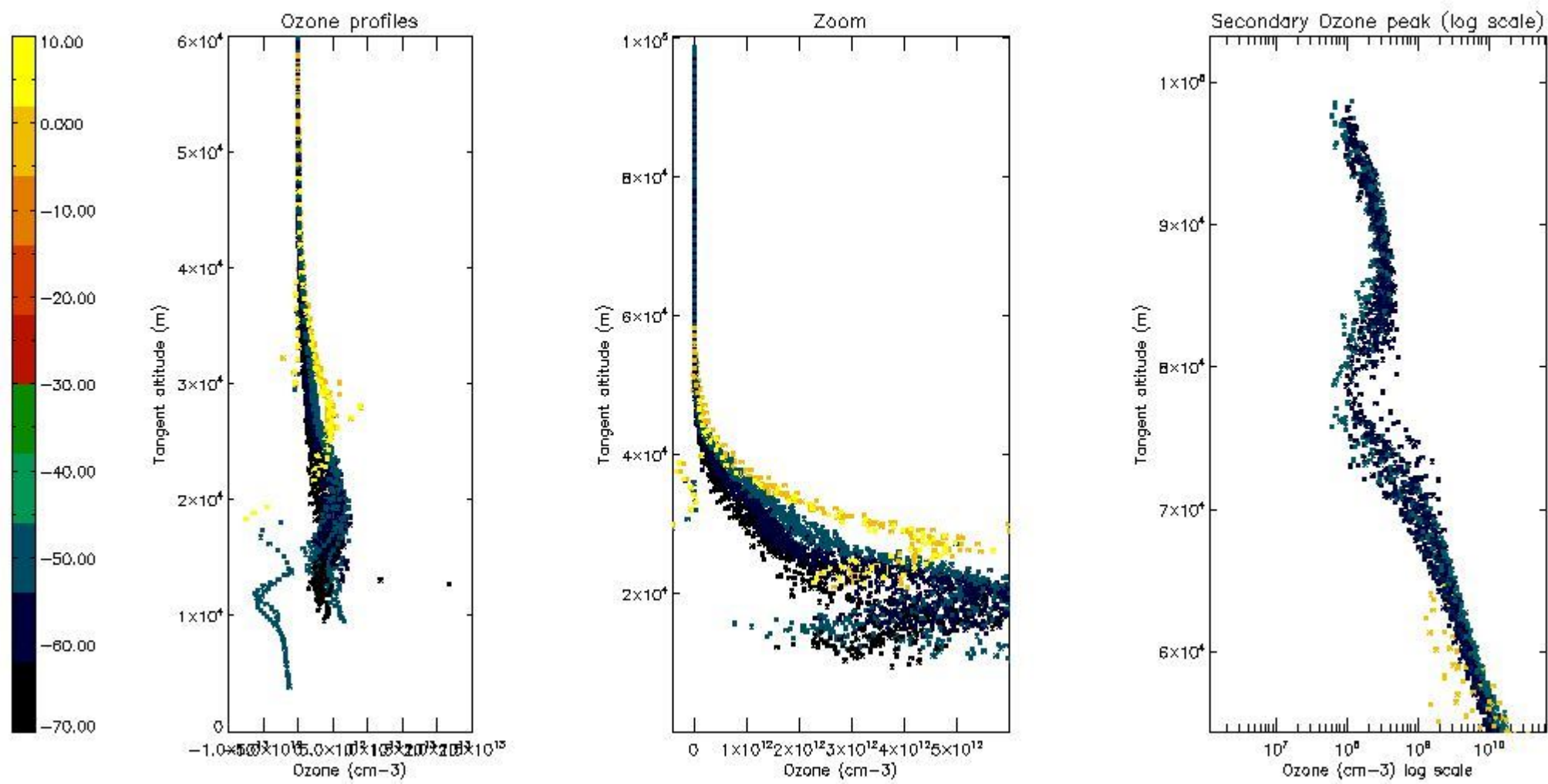
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



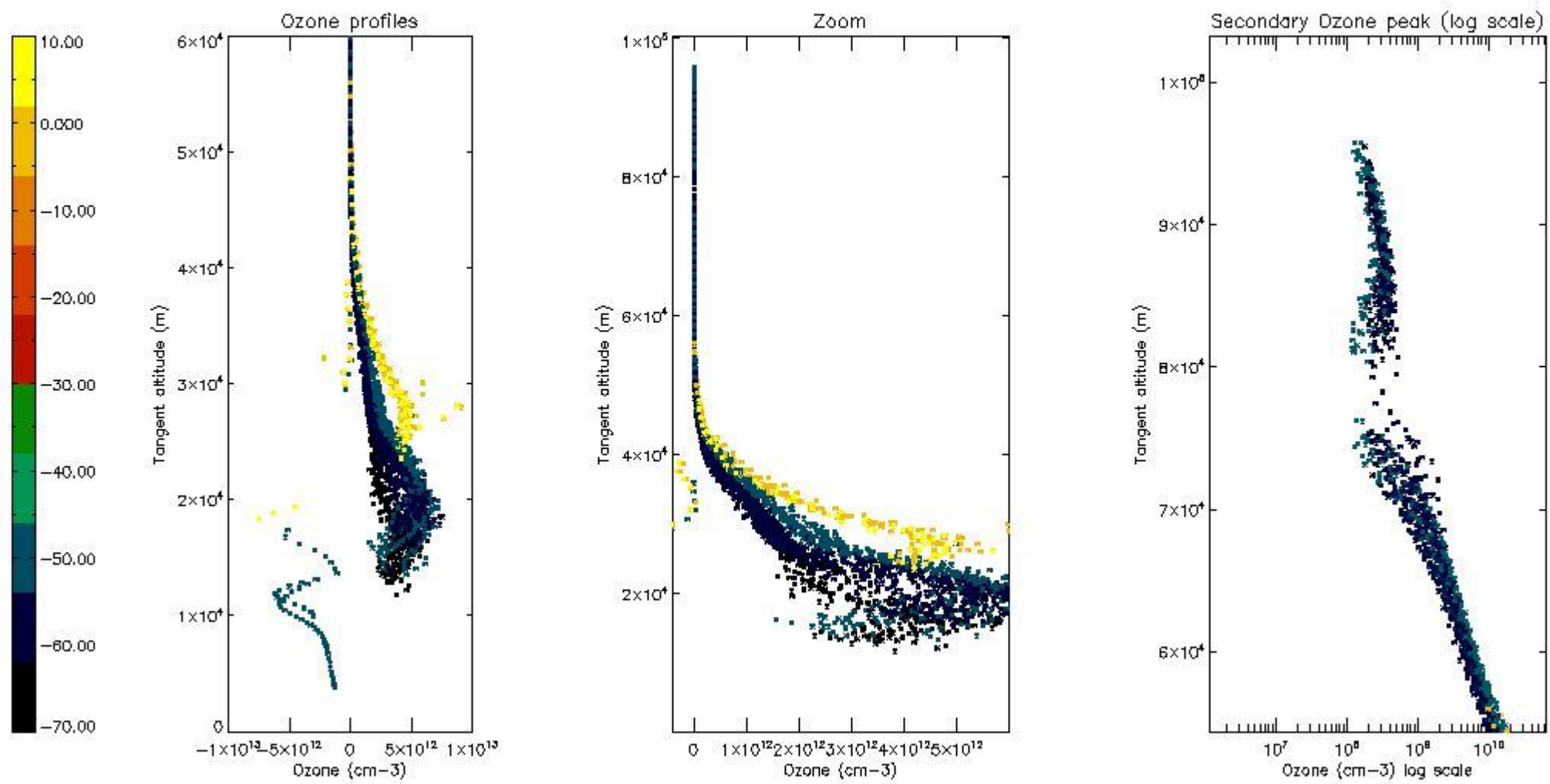
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



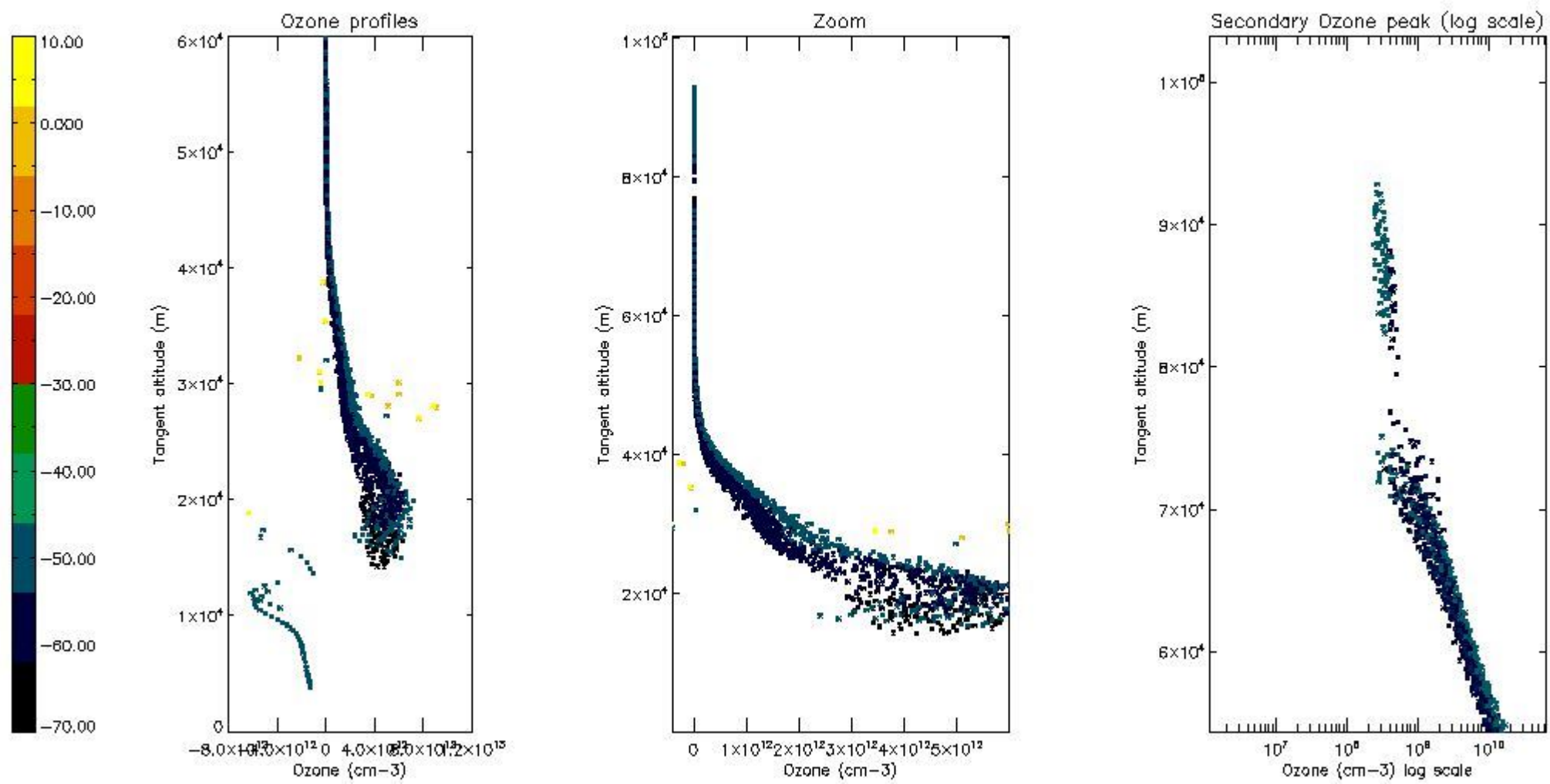
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



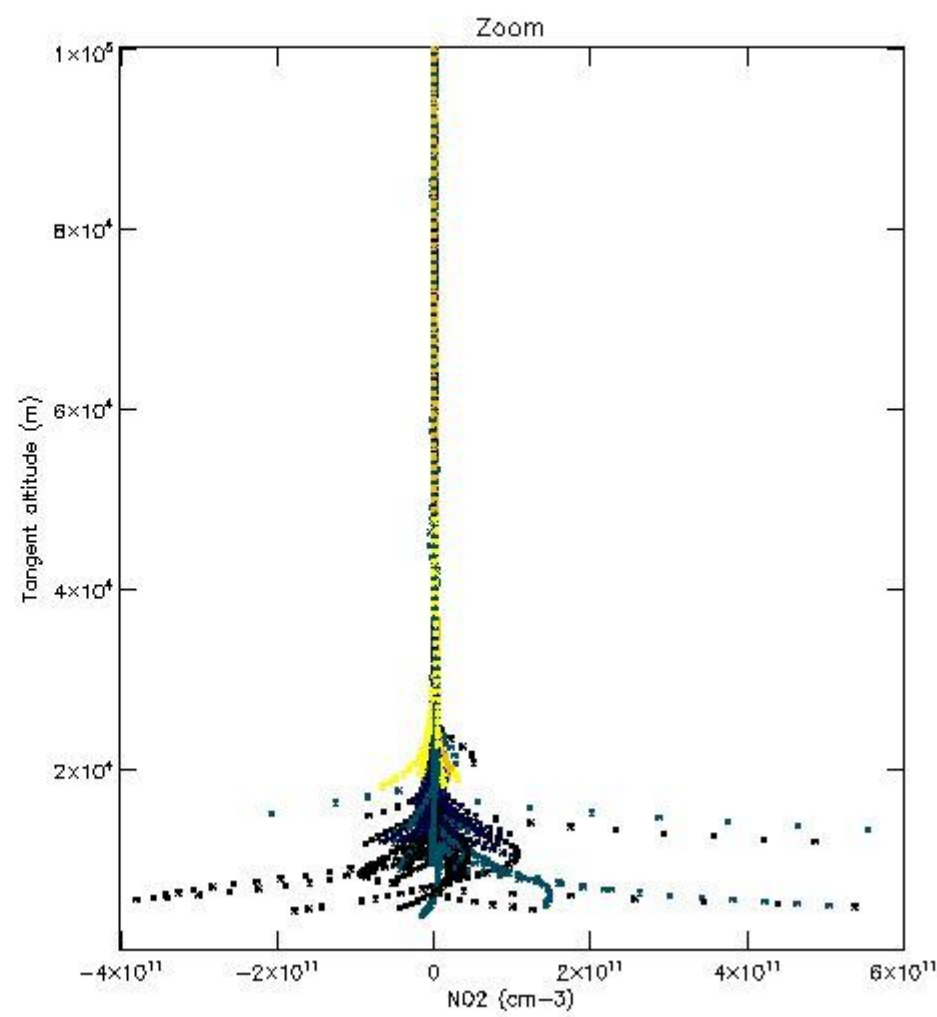
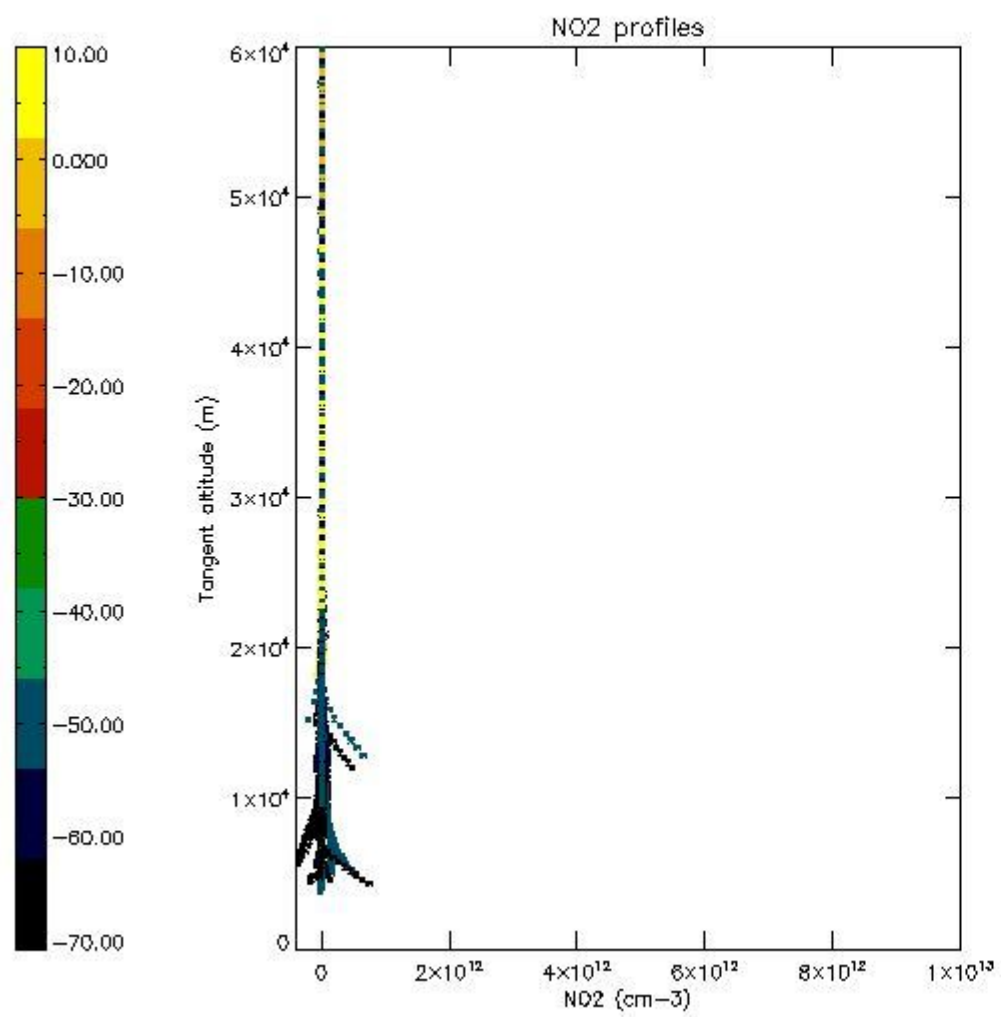
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



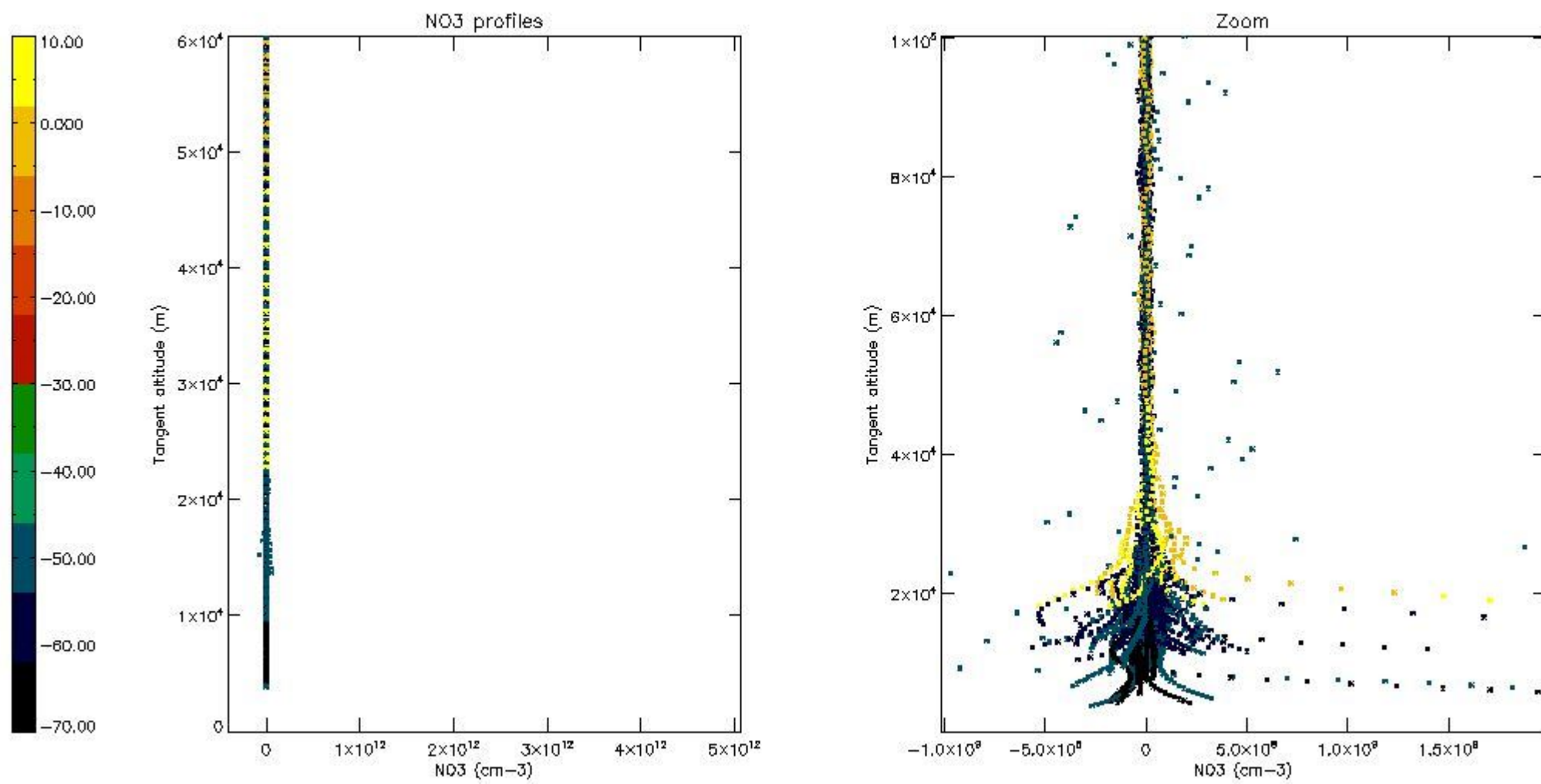
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



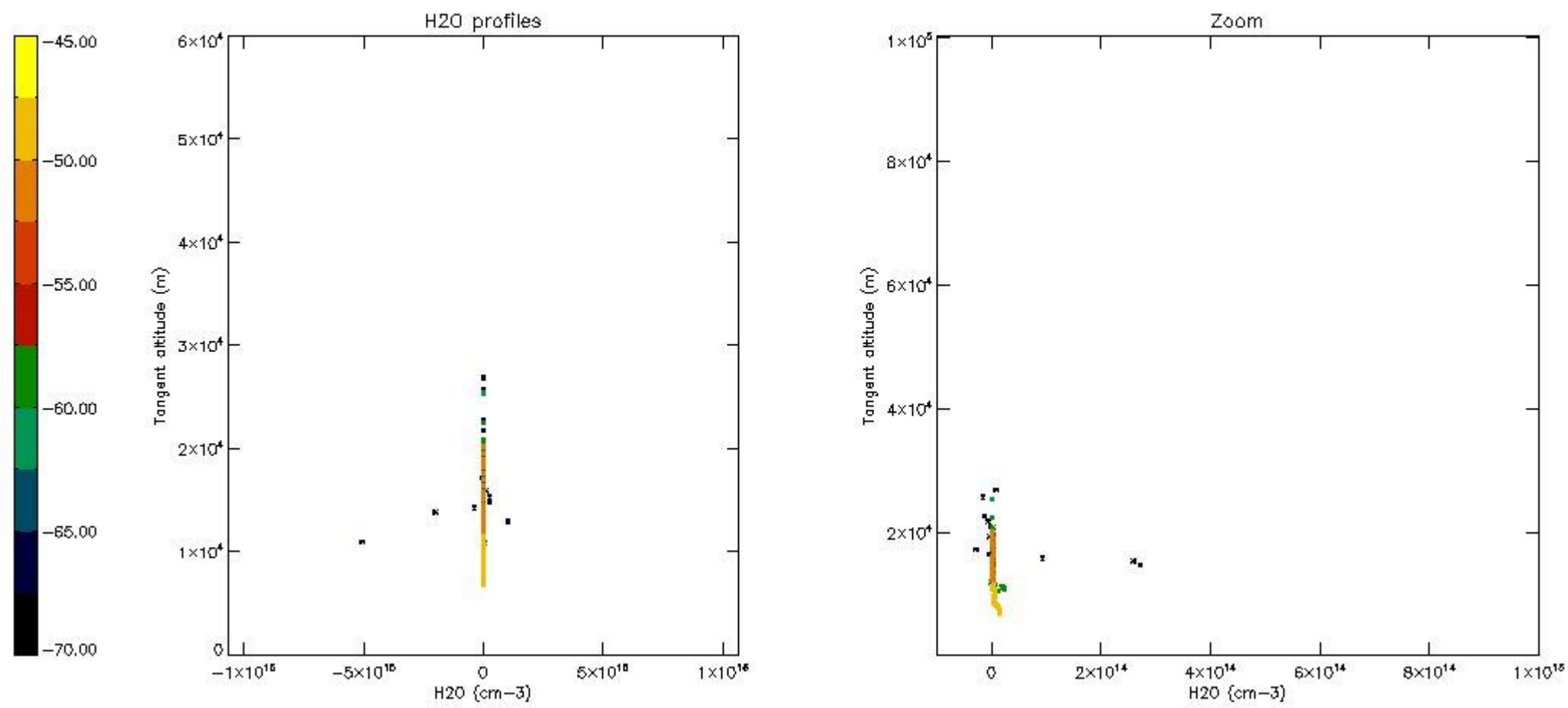
5.7 Plot NO3 profiles for all STD (dark without errors)

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	19-AUG-2009 00:00:29
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-AUG-2009 00:00:29
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-AUG-2009 00:00:29

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 \(time dependant\)](#)

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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](#)

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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% \(dark without errors\)](#)

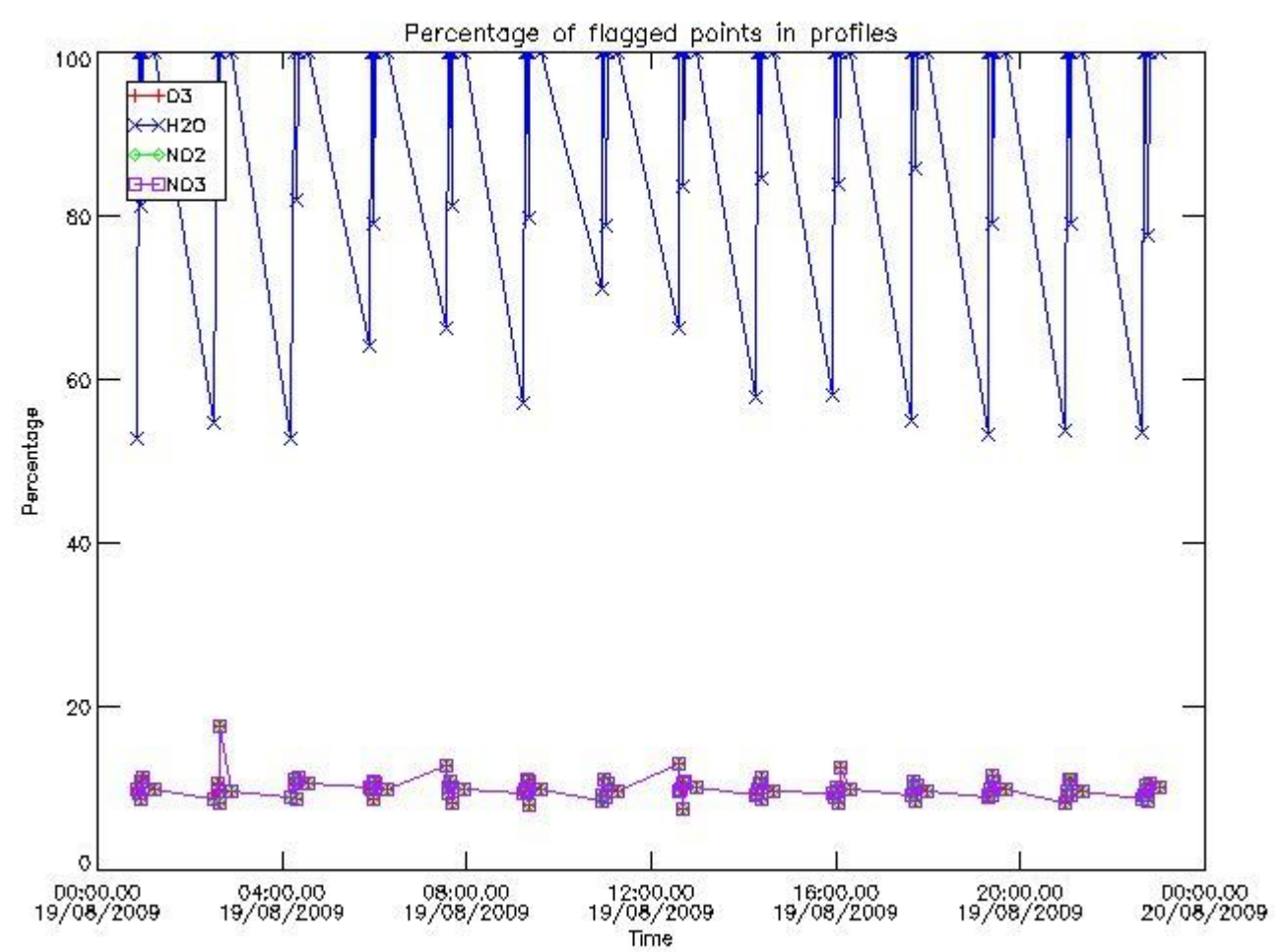
[5.5. Plot ozone profiles where STD < 5% \(dark without errors\)](#)

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

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

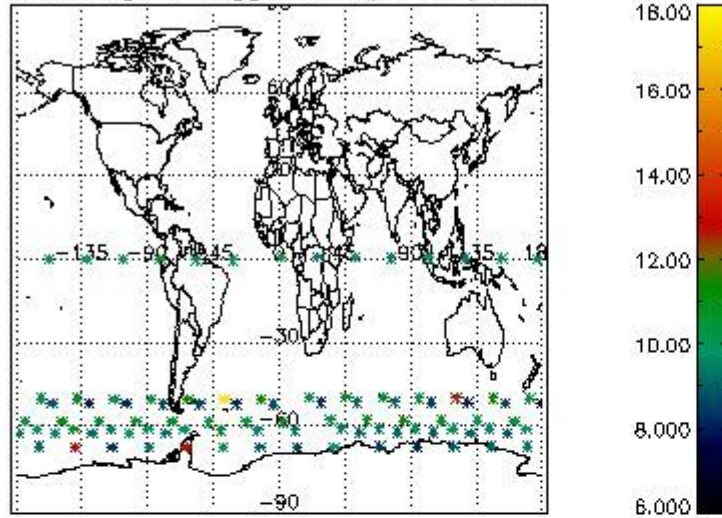
[5.8 Plot H2O profiles \(only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors\) for all STD](#)

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

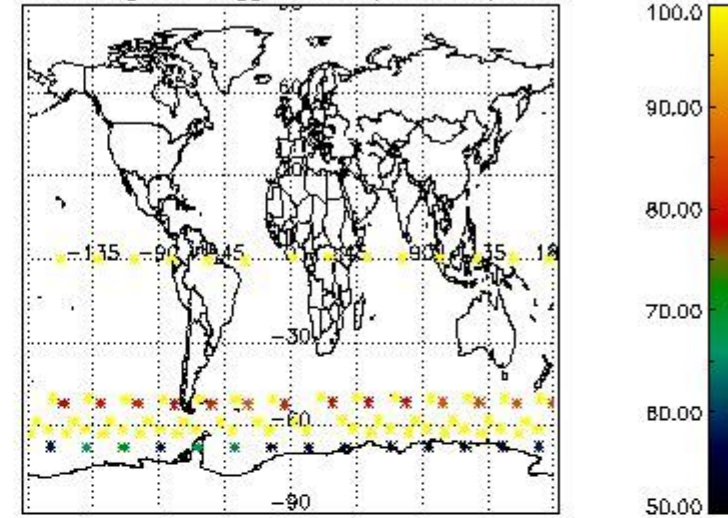


3.2 Plot quality information per product (world map)

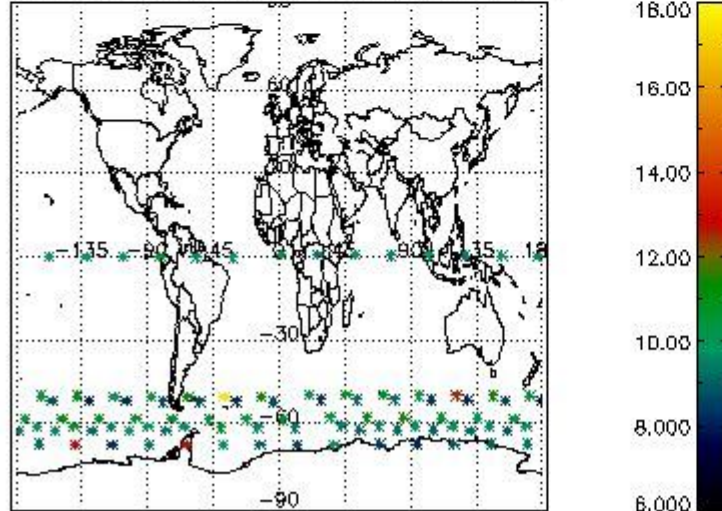
Percentage of flagged data per O3 profile



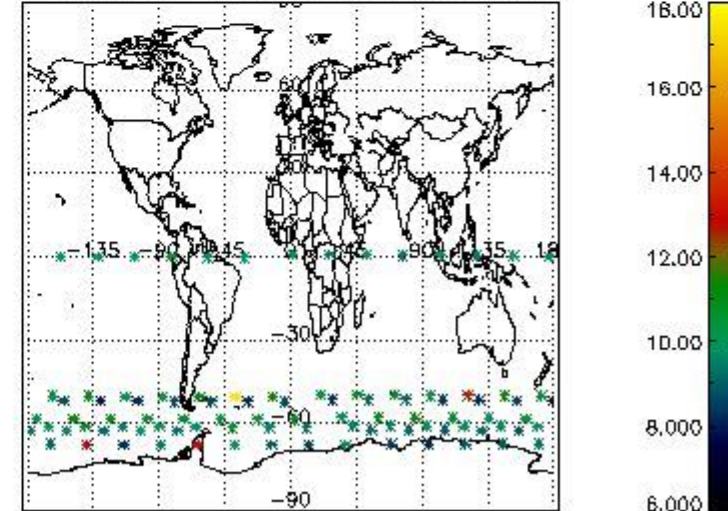
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

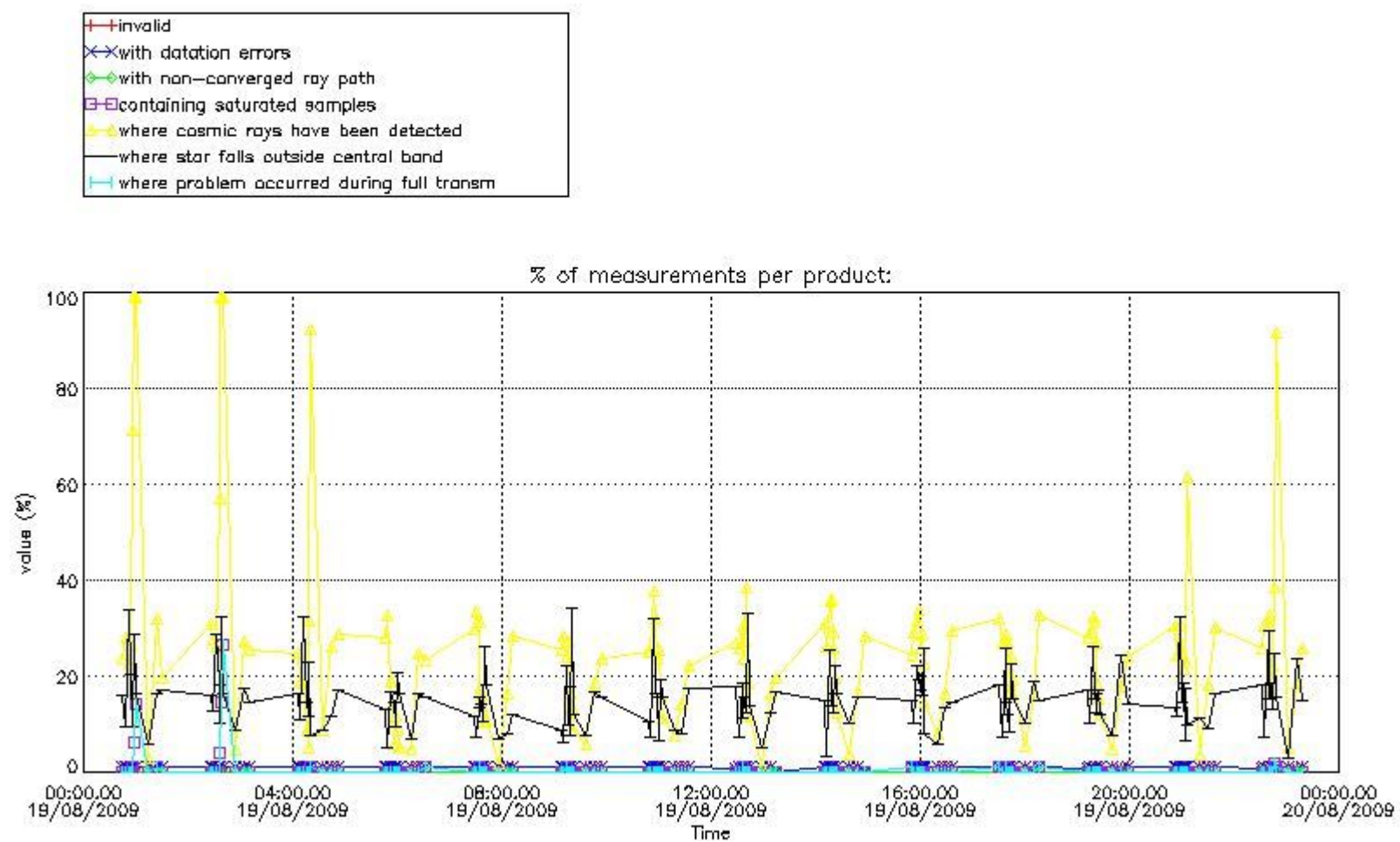


4. Level 1 quality information per product

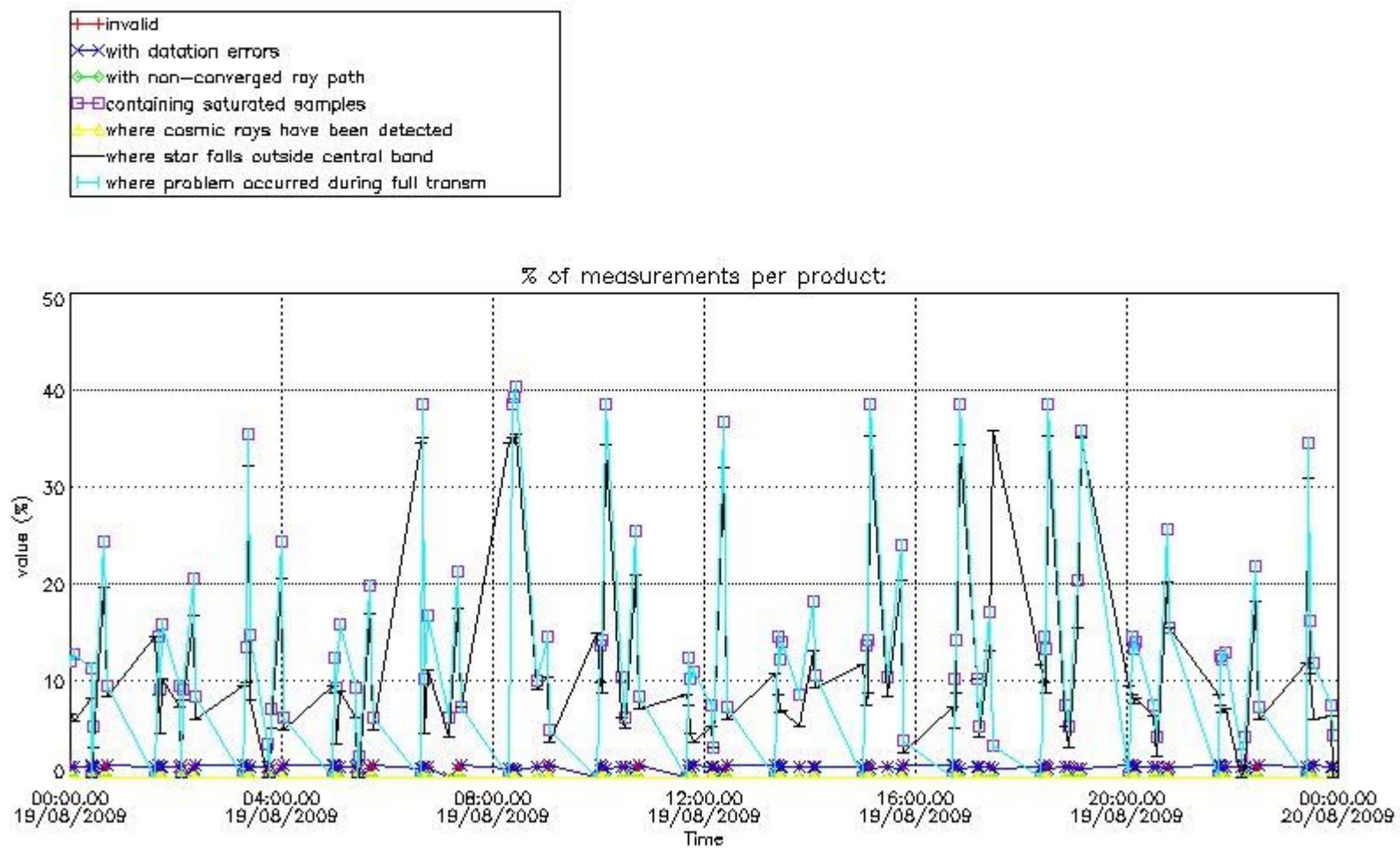
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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

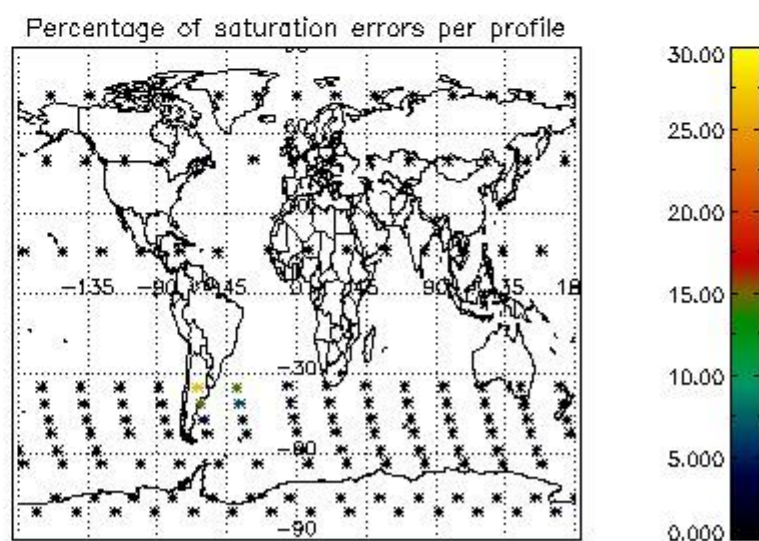
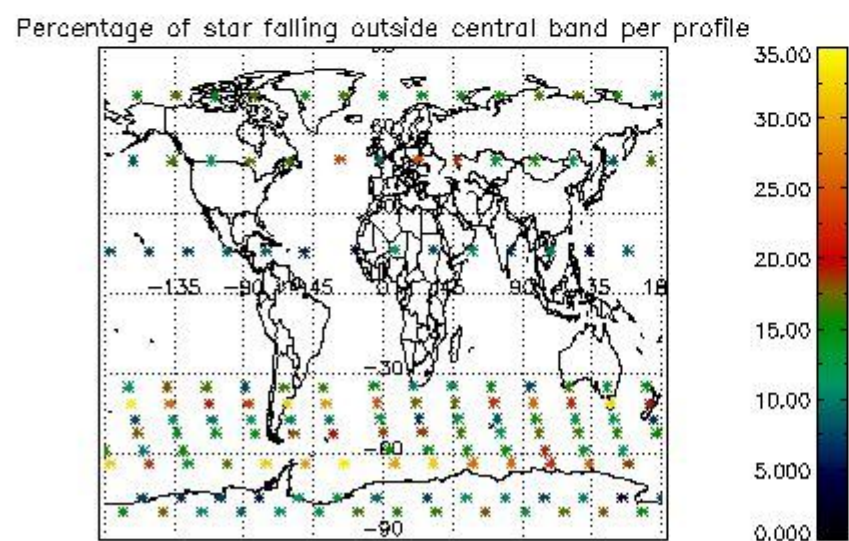
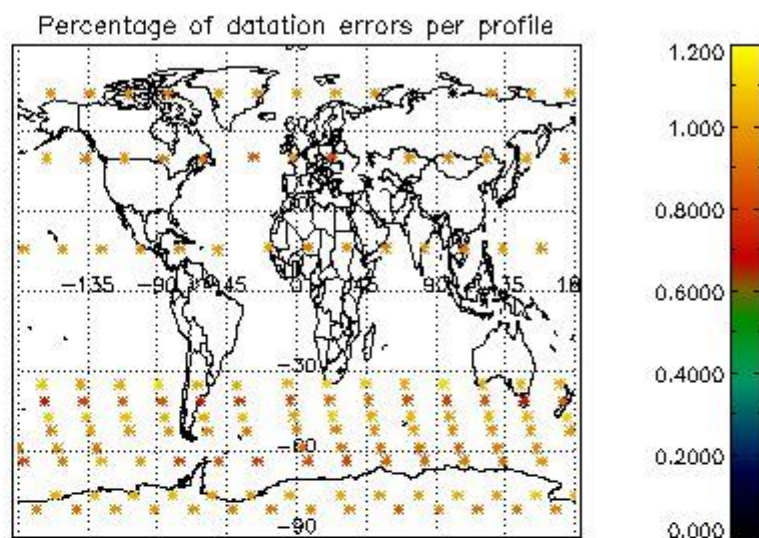
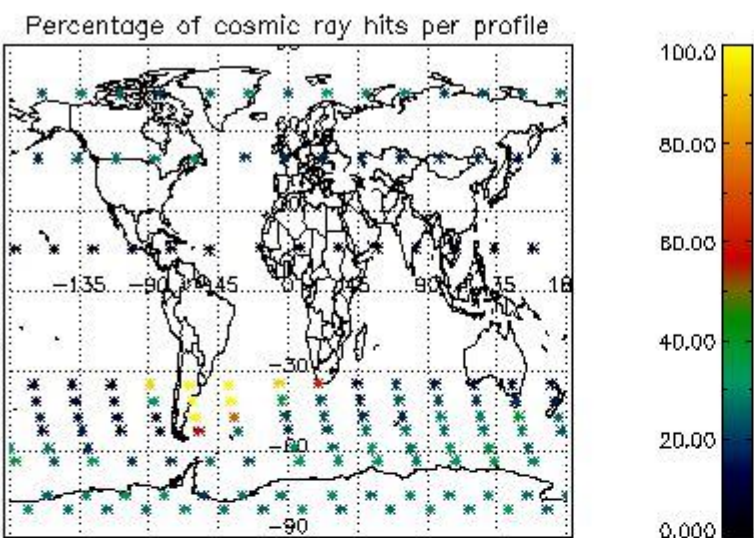


4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes

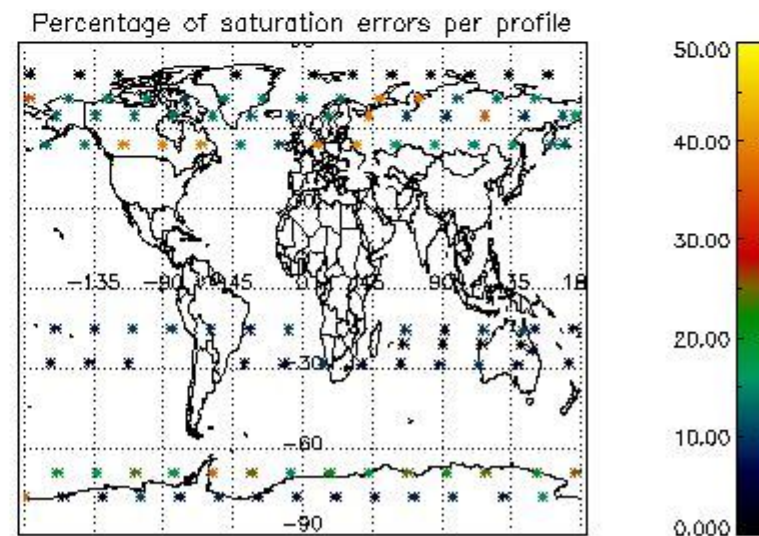
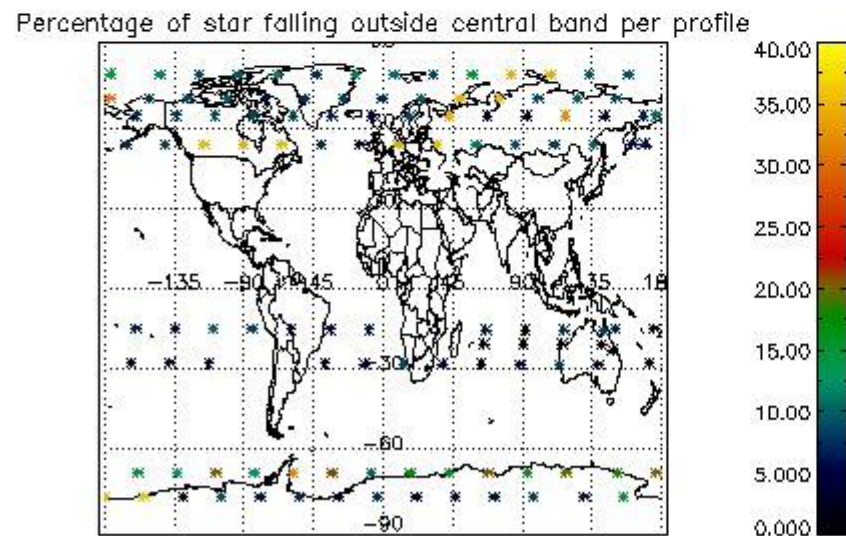
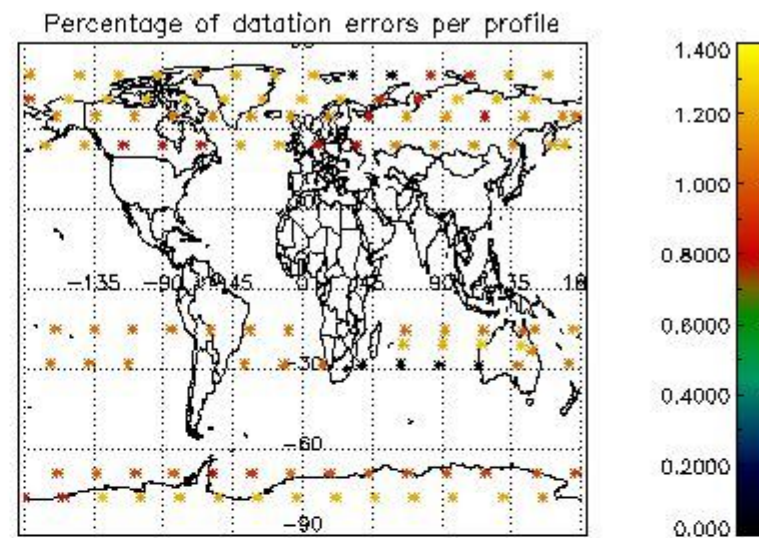
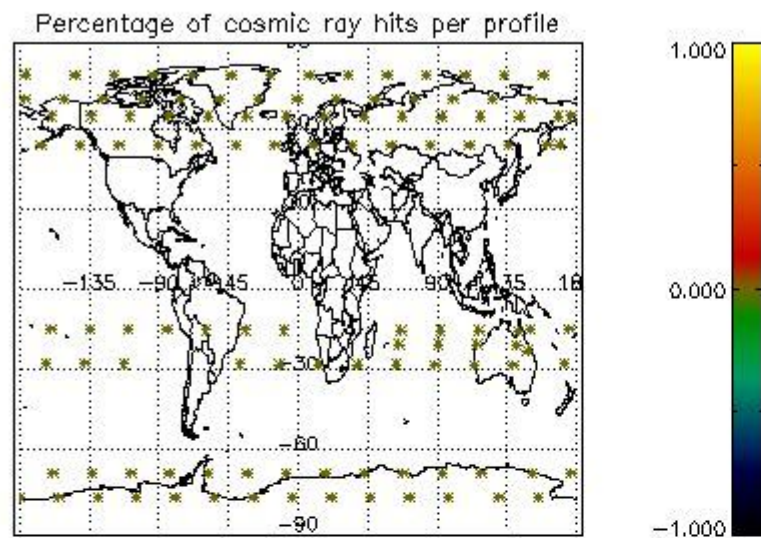


4.2 Plot quality information per product coming from level 1b processing (world map)

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



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

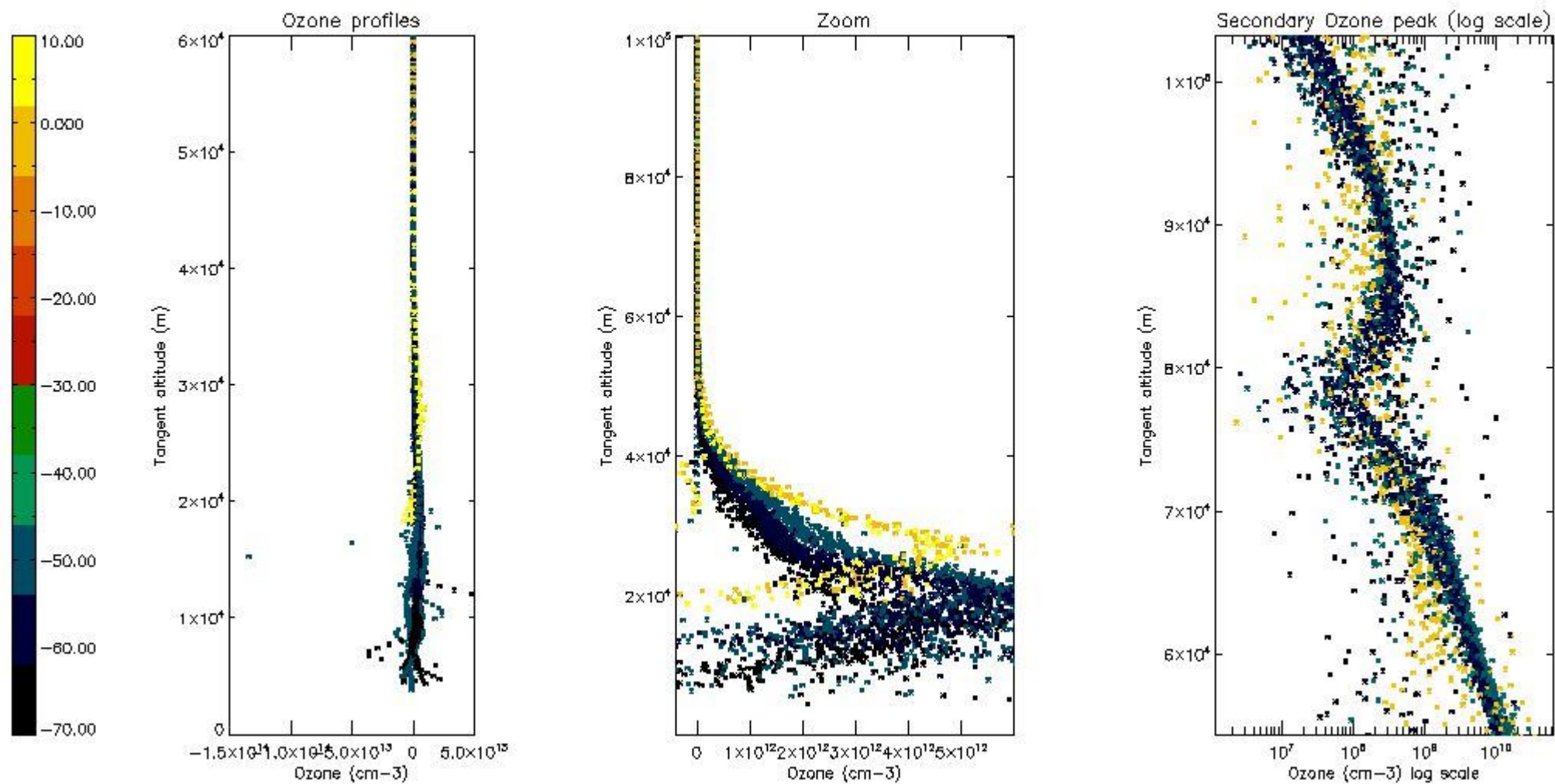
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	38
STD < 20	21

STD < 10	16
STD < 5	11

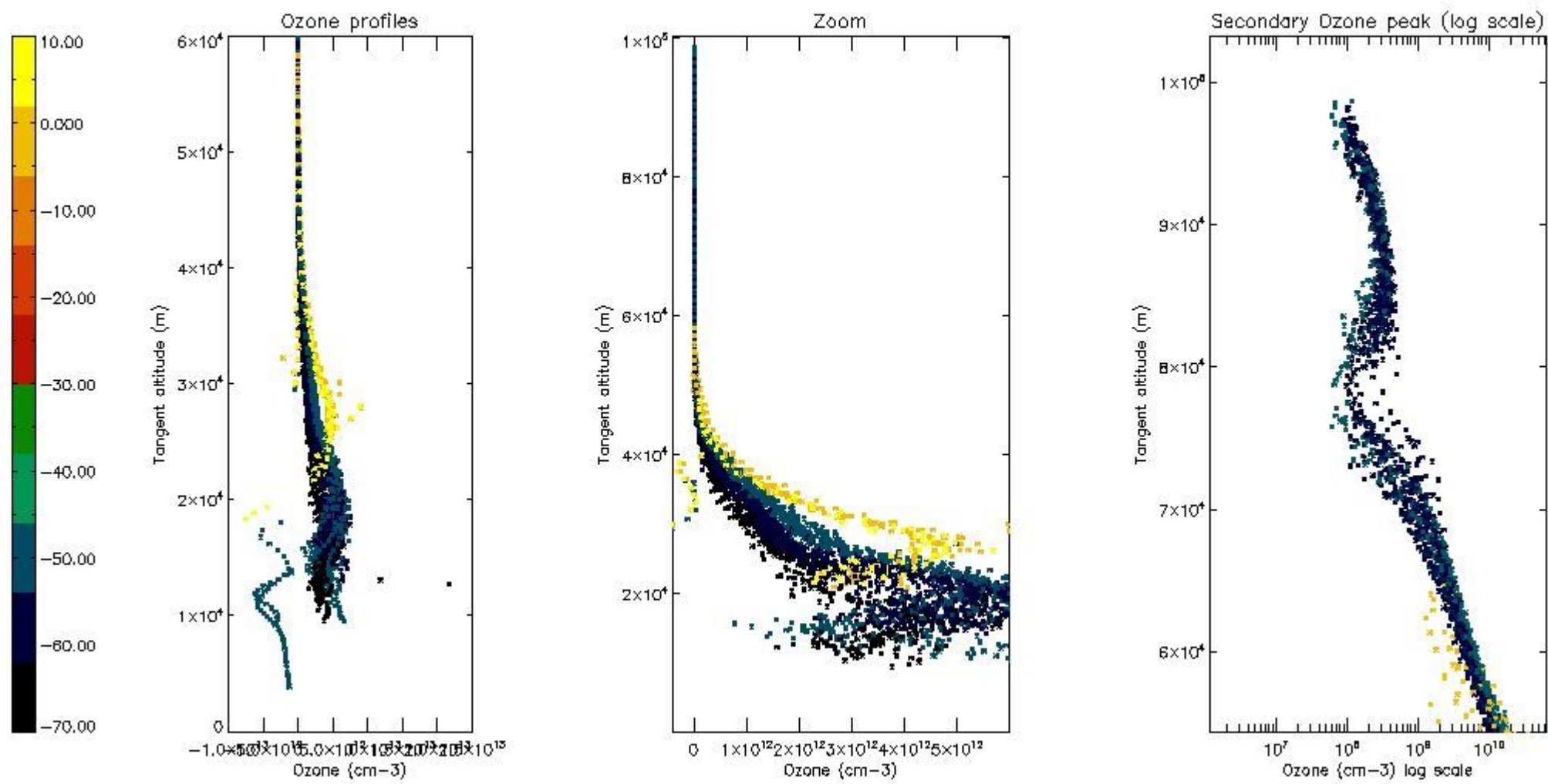
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



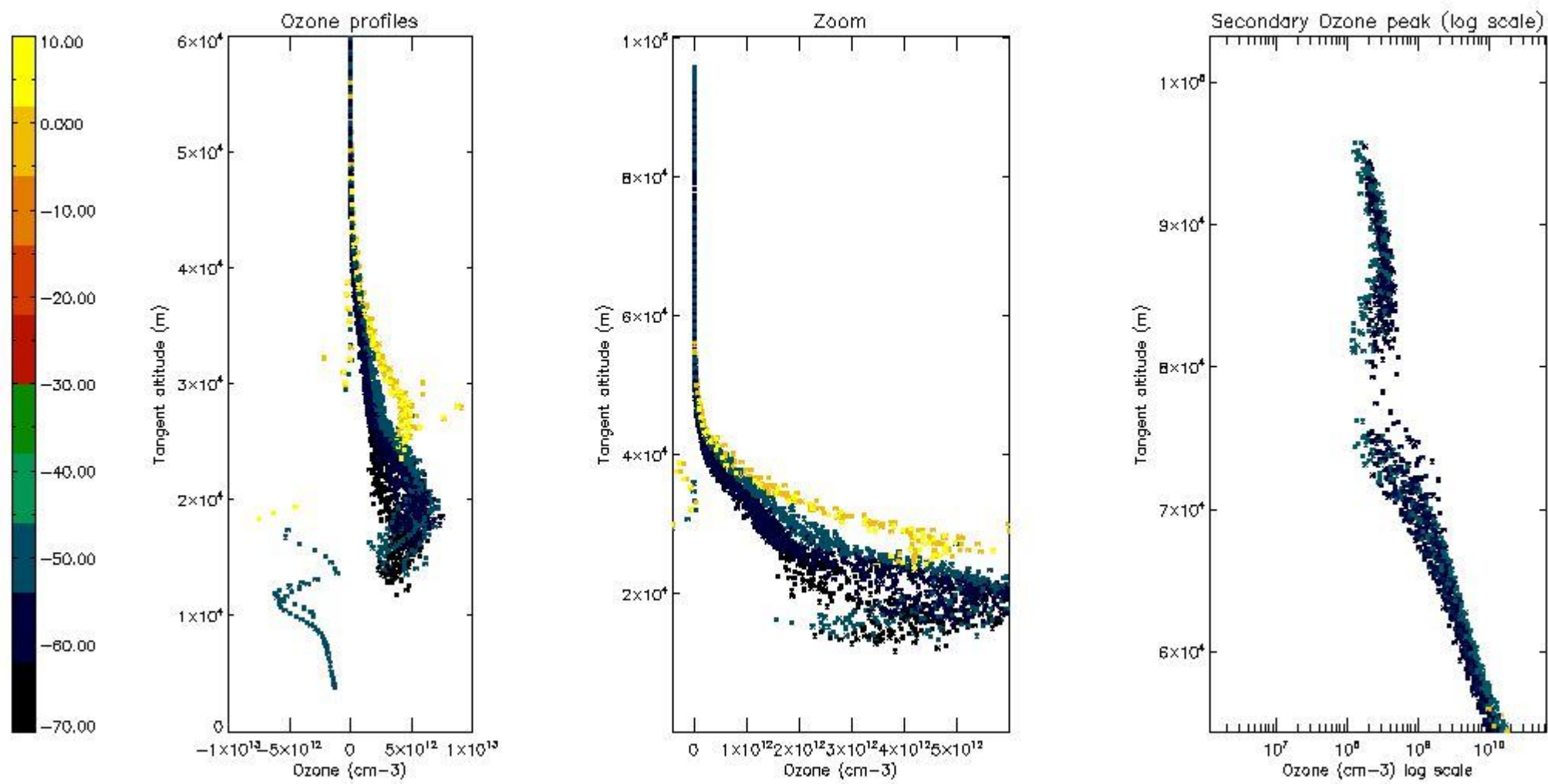
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



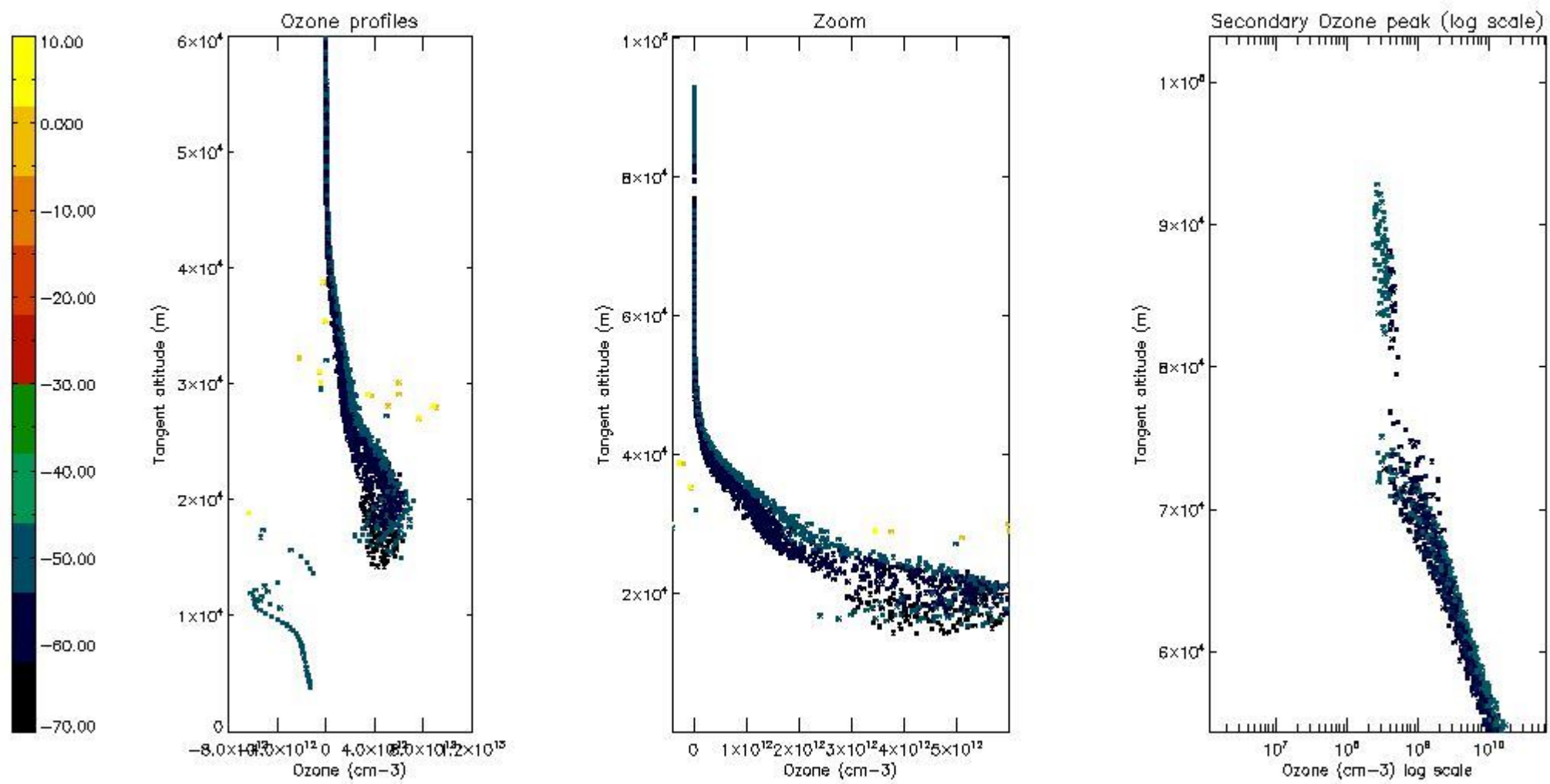
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



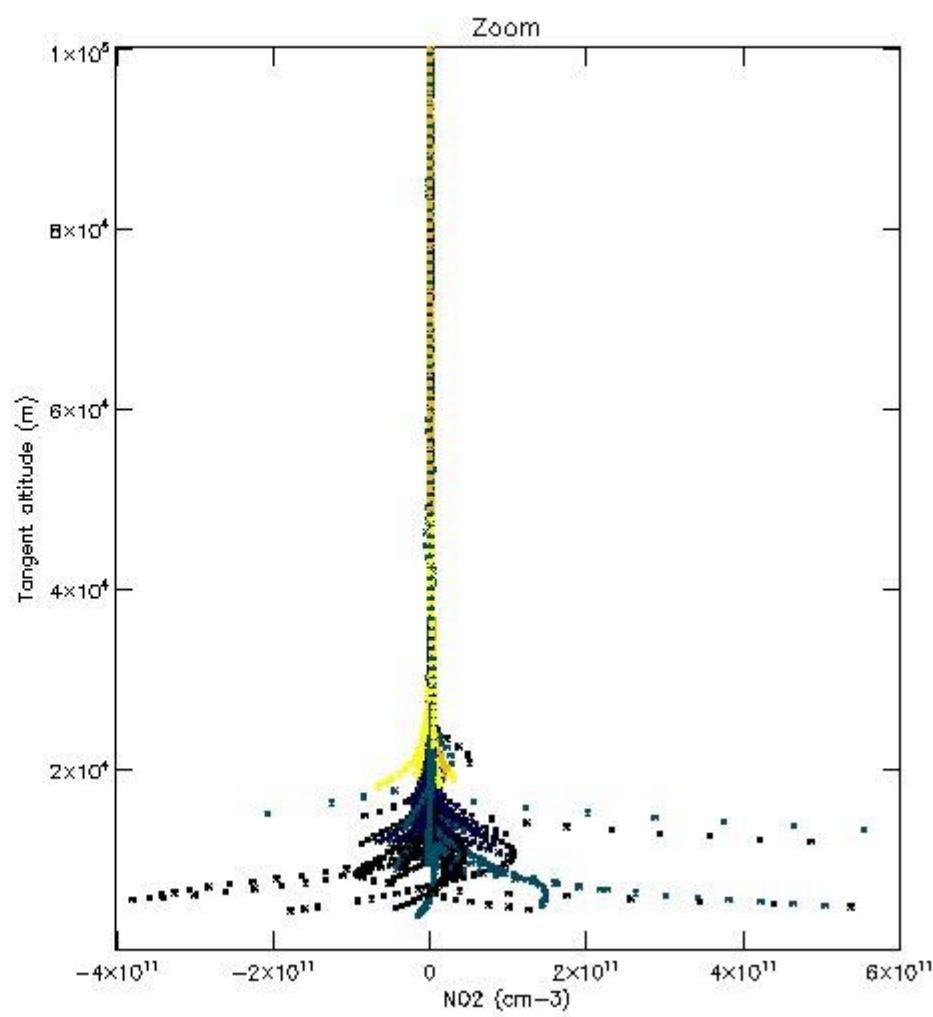
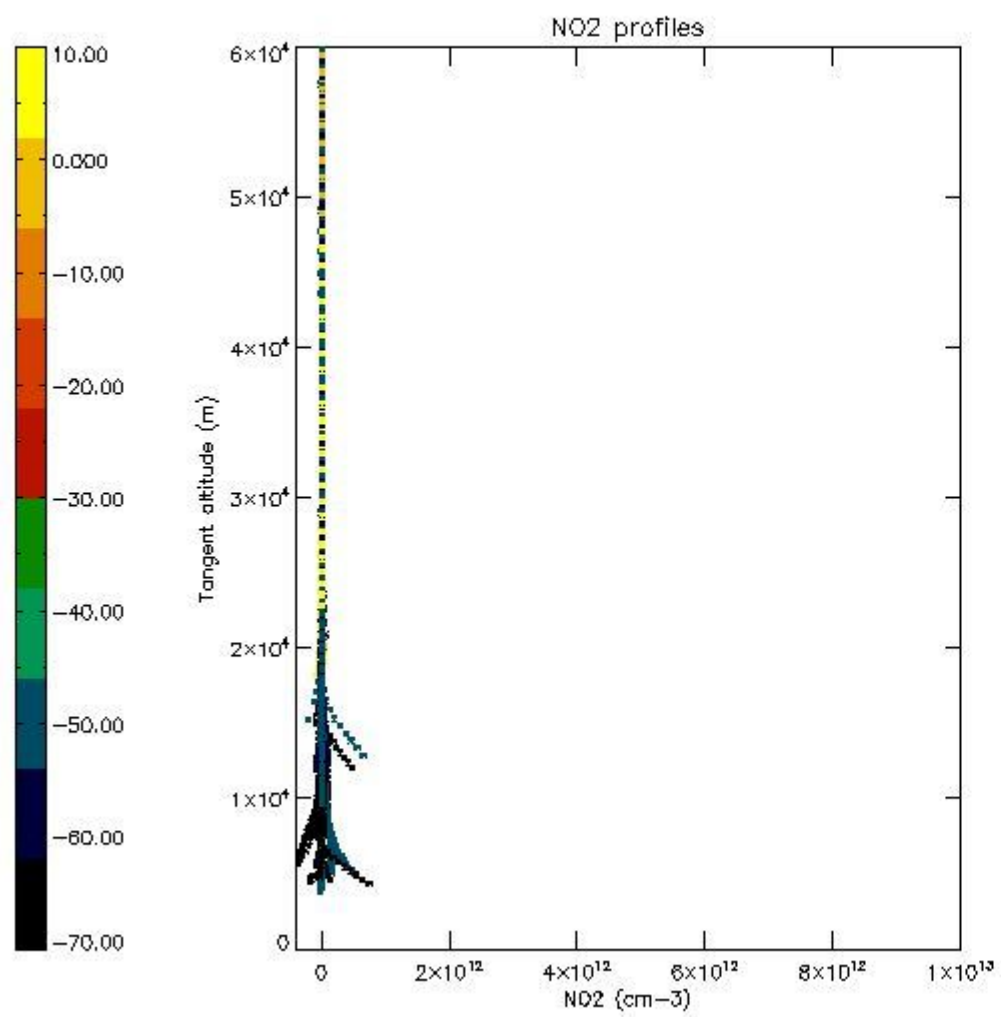
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



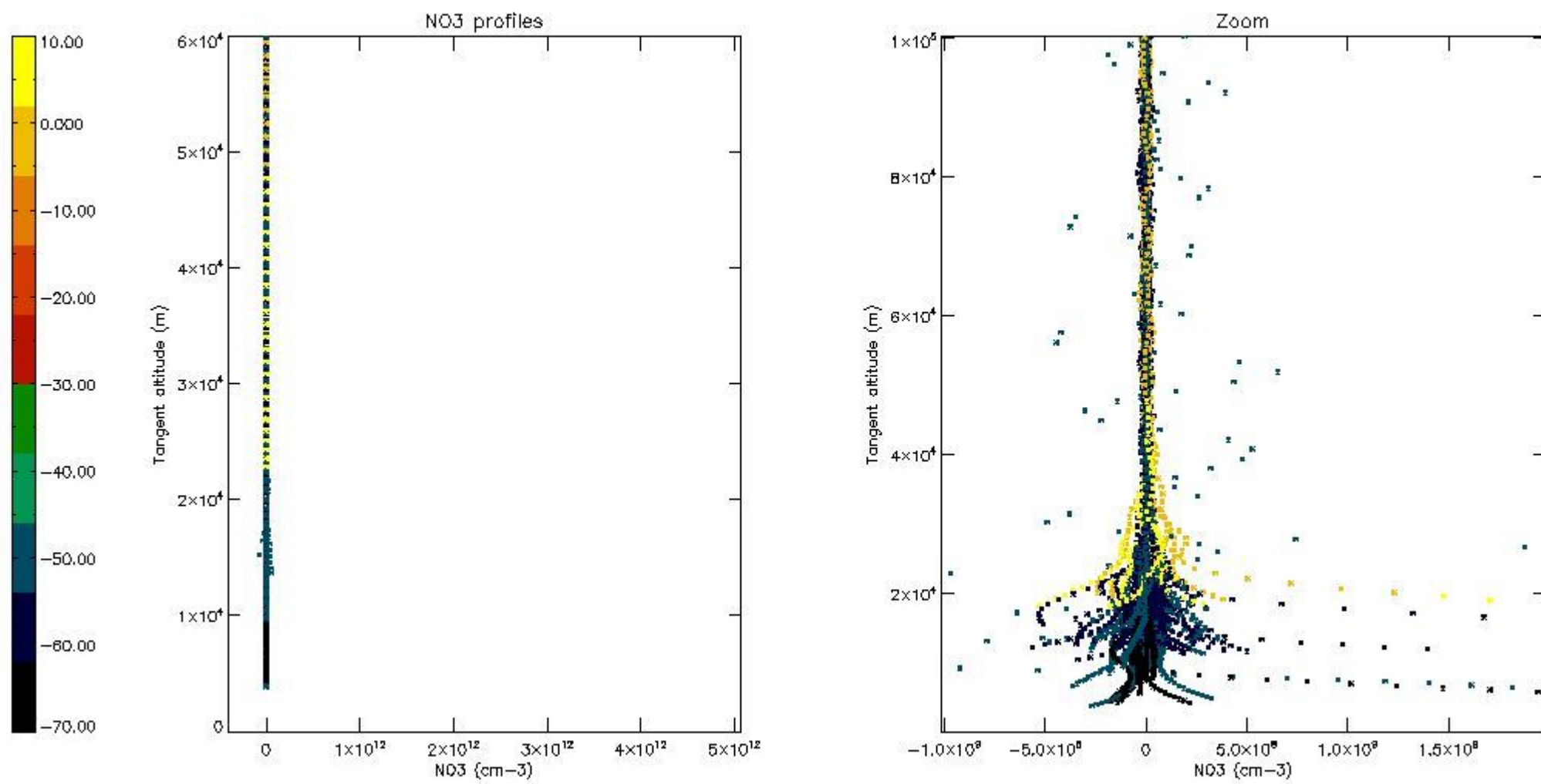
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



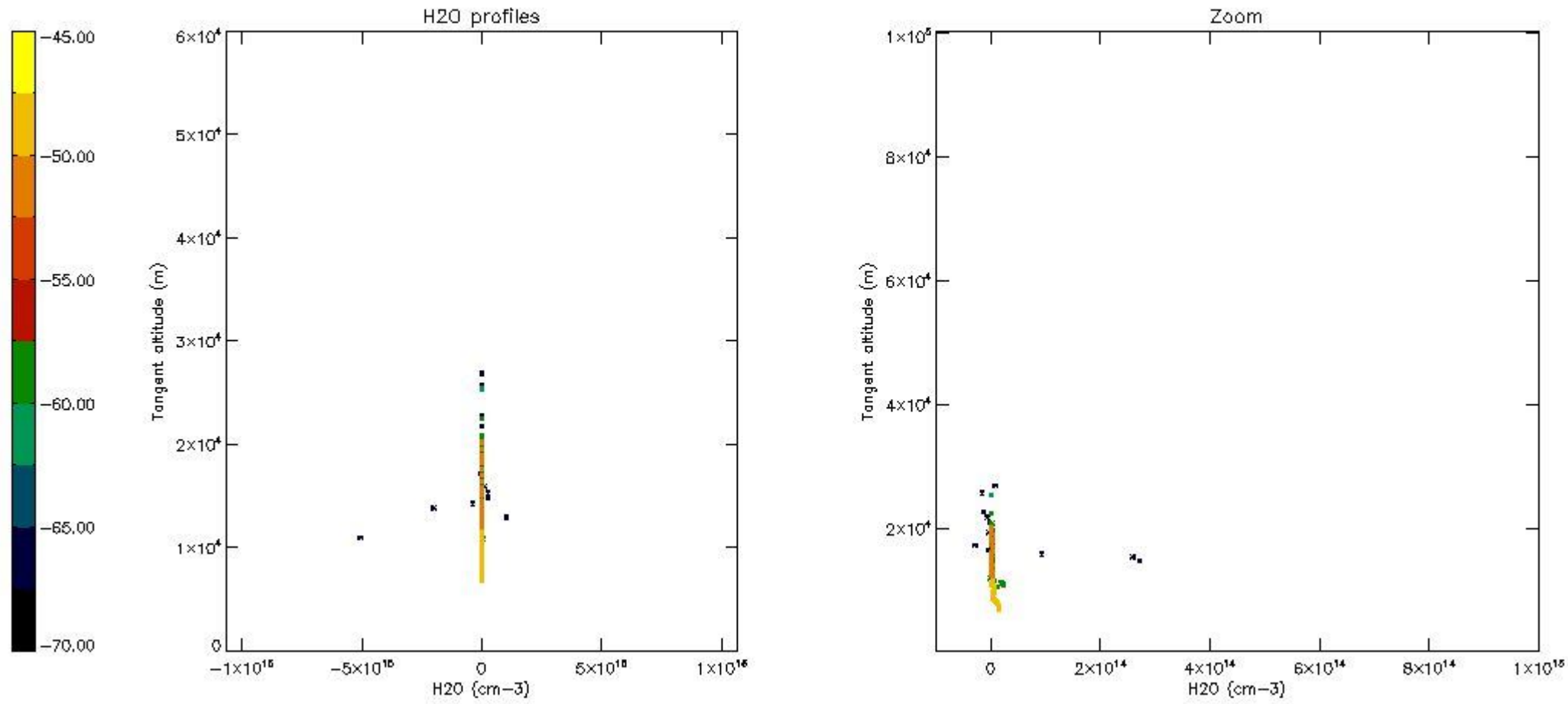
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

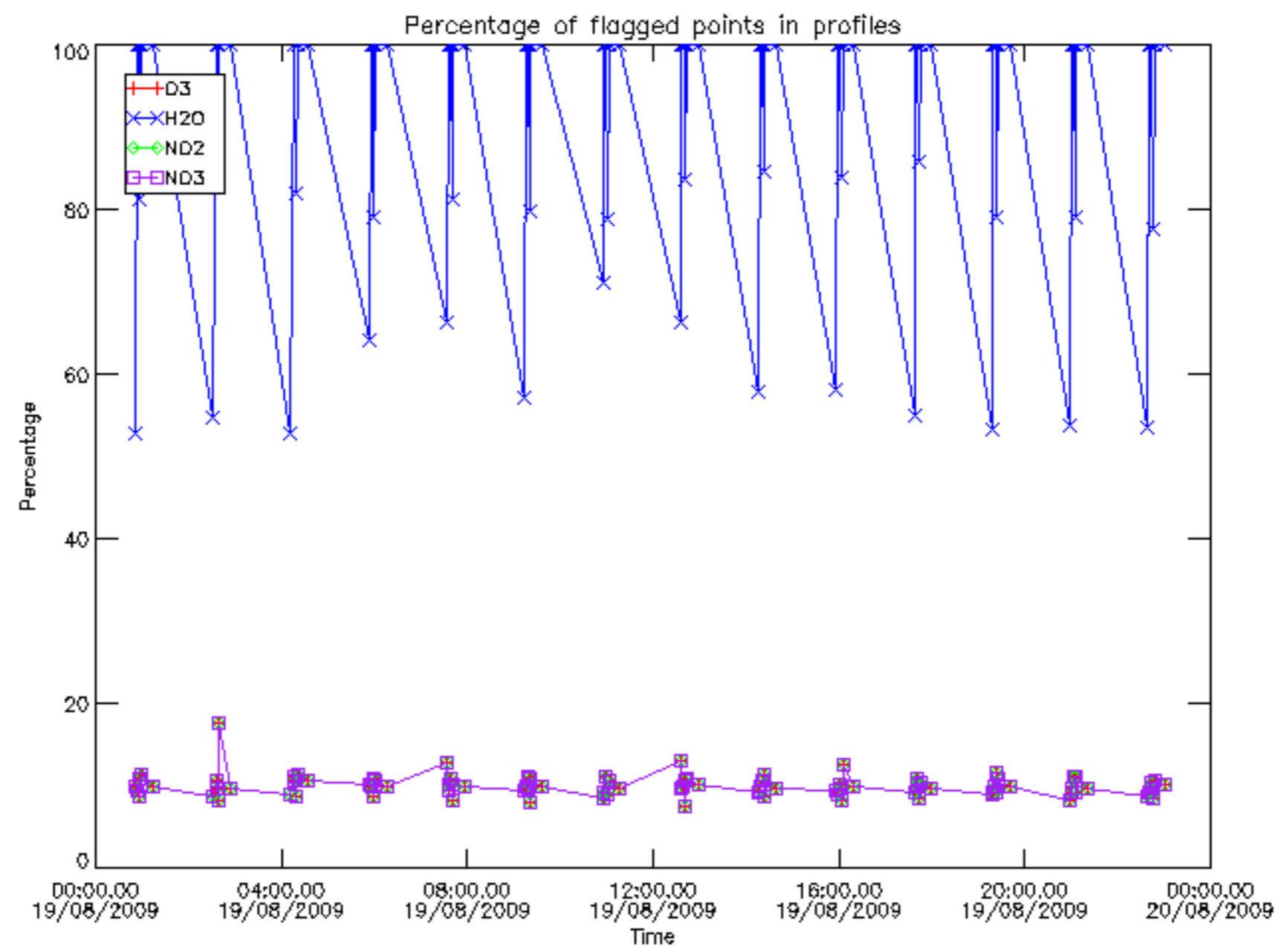
The colorbar represents the latitude.



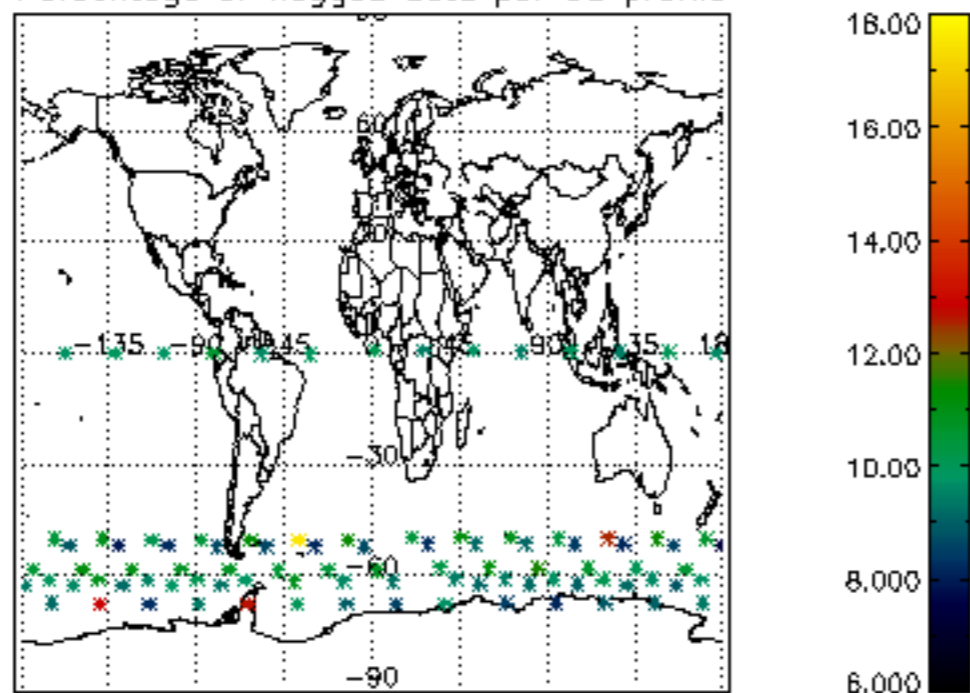
6. Auxiliary Data Files used for the production reported in section 2

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.

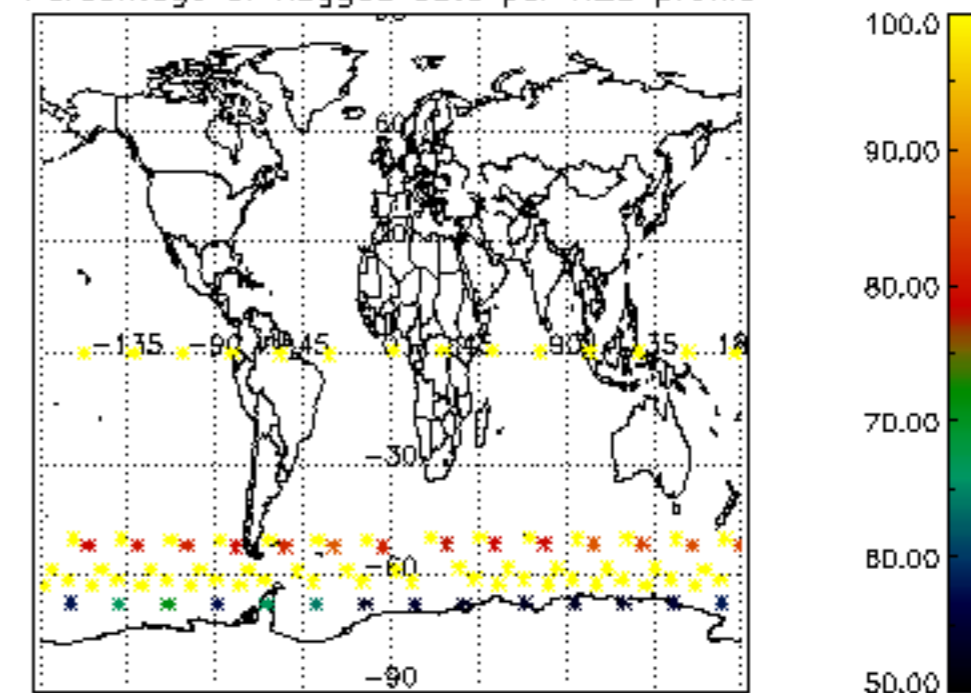
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	19-AUG-2009 00:00:29
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	19-AUG-2009 00:00:29
CROSS_SECTIONS_FILE	GOM_CR2_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	19-AUG-2009 00:00:29



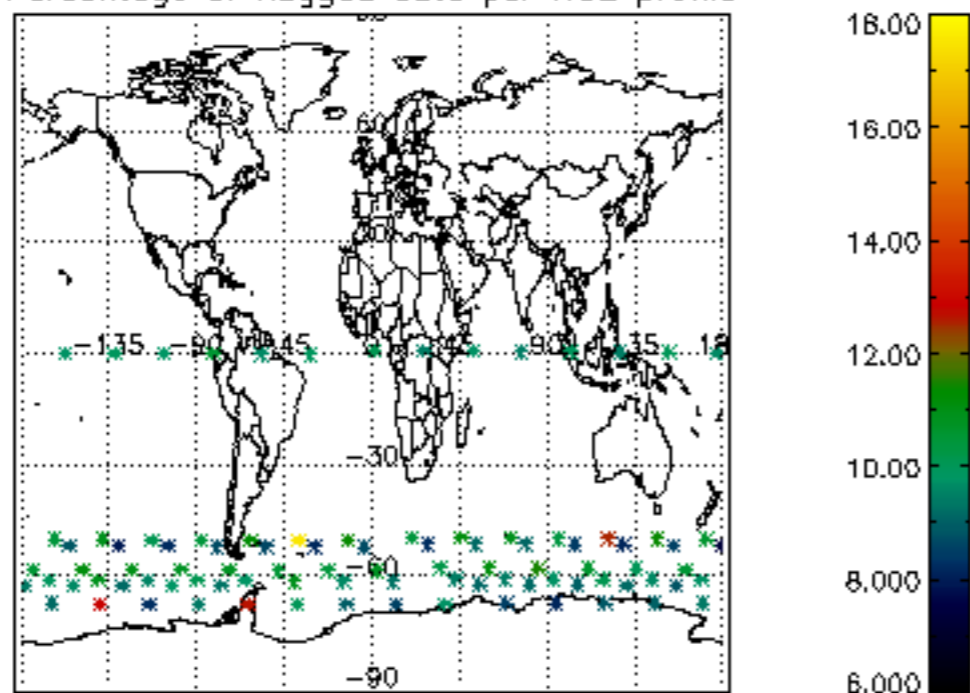
Percentage of flagged data per D3 profile



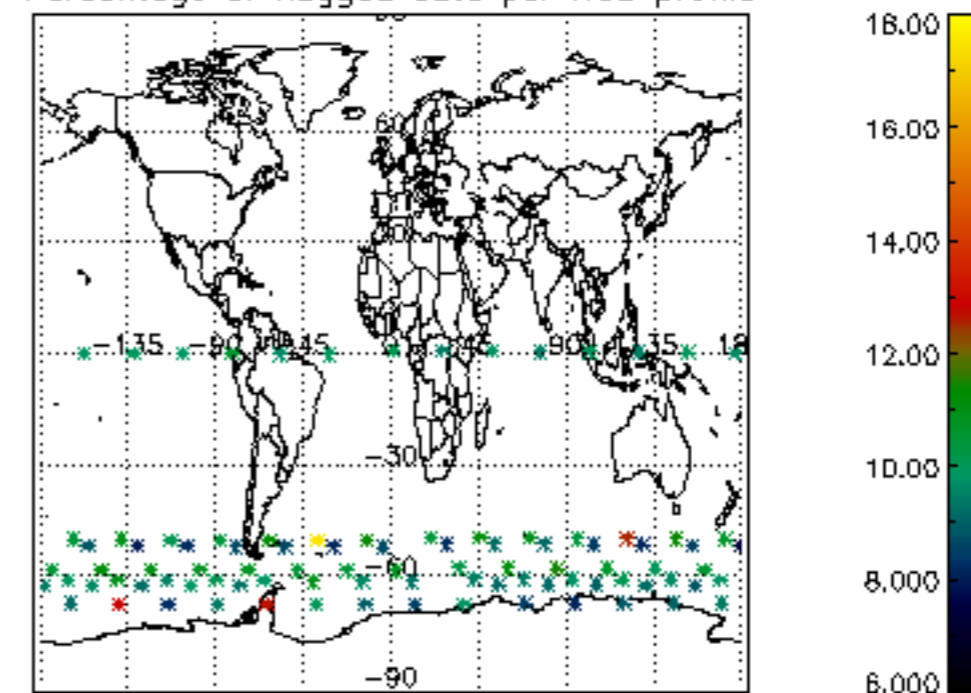
Percentage of flagged data per H2O profile

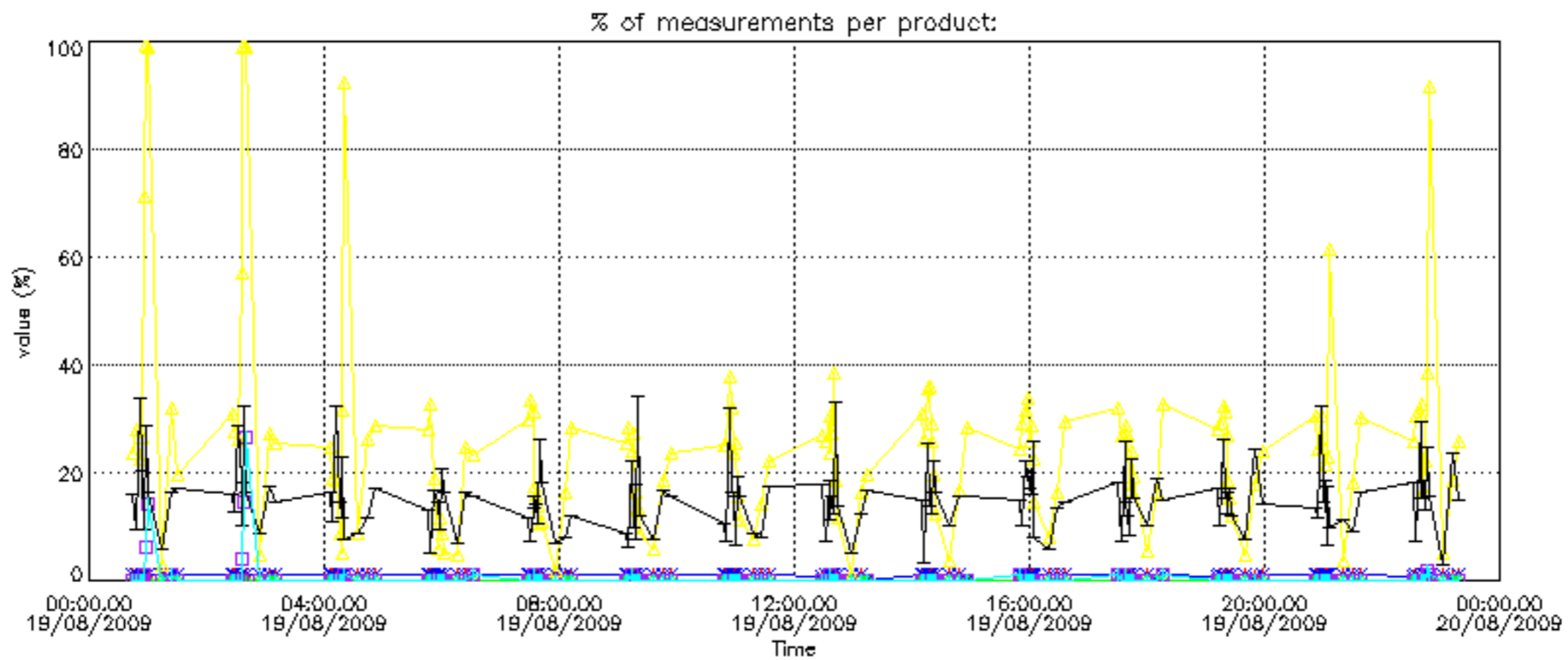


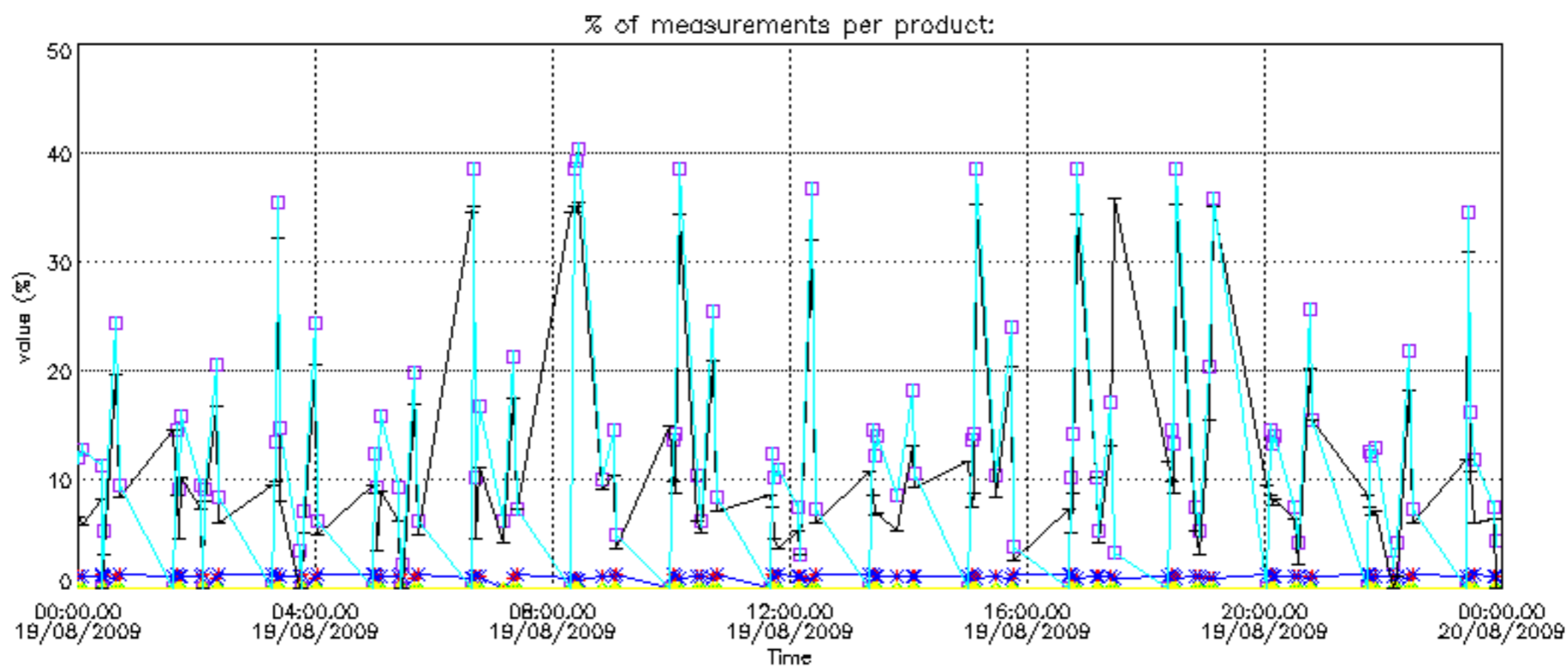
Percentage of flagged data per NO2 profile



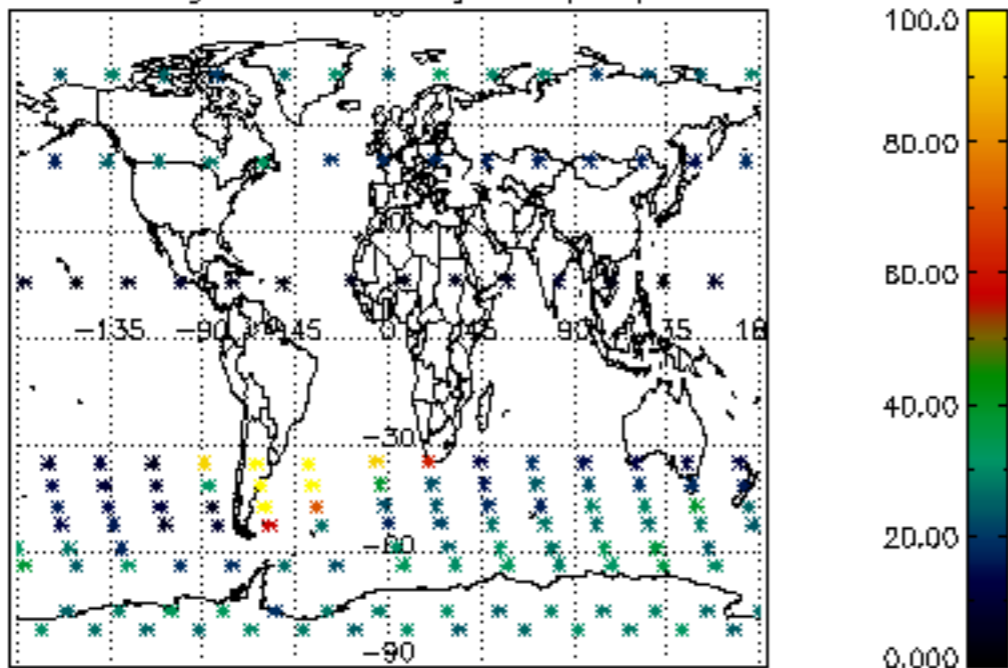
Percentage of flagged data per NO3 profile



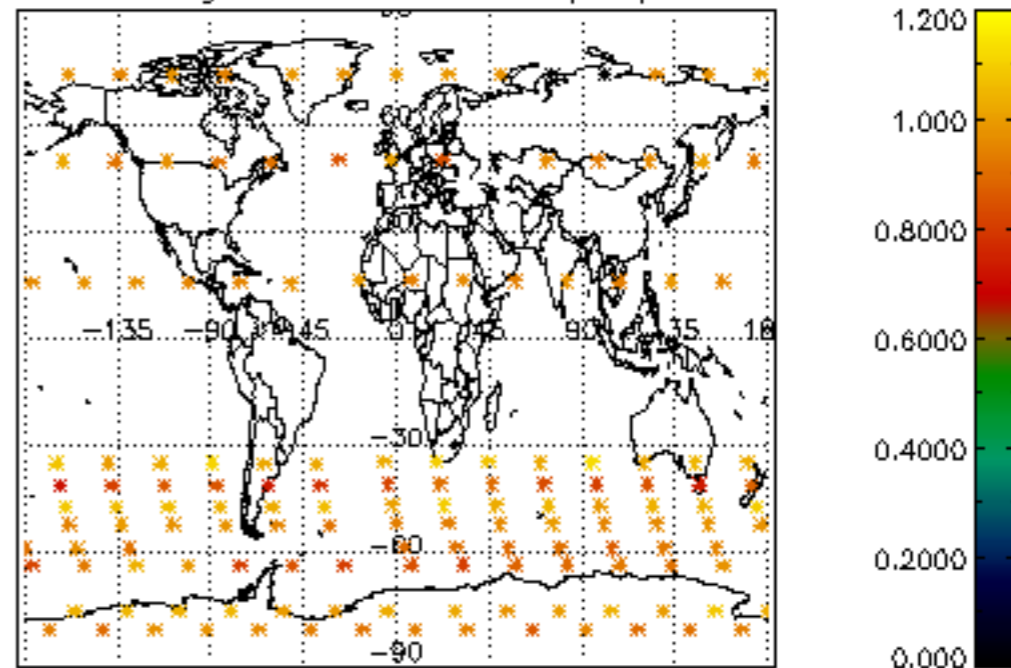




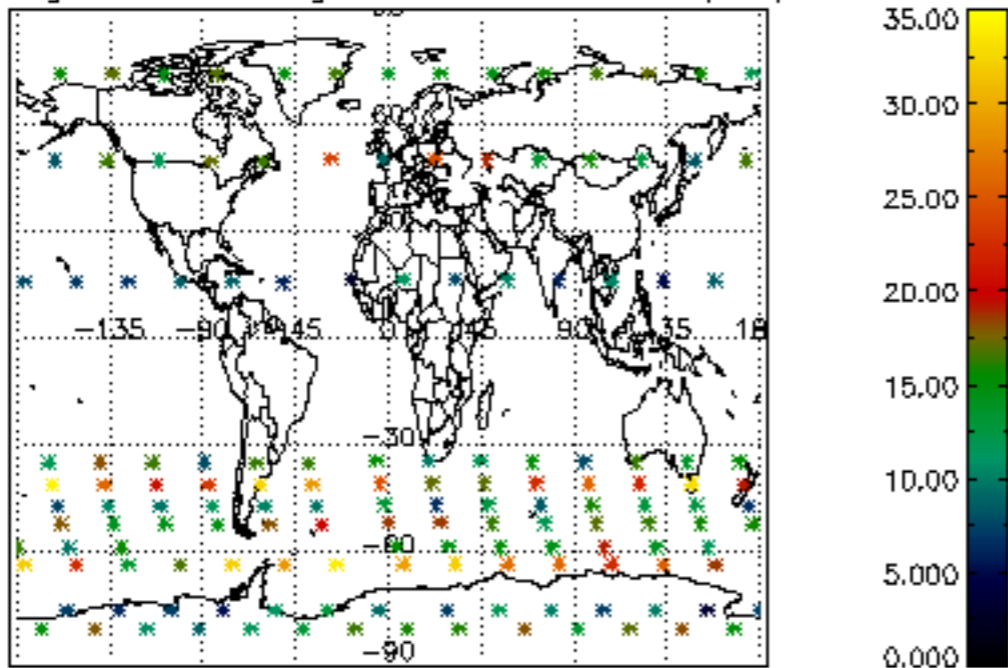
Percentage of cosmic ray hits per profile



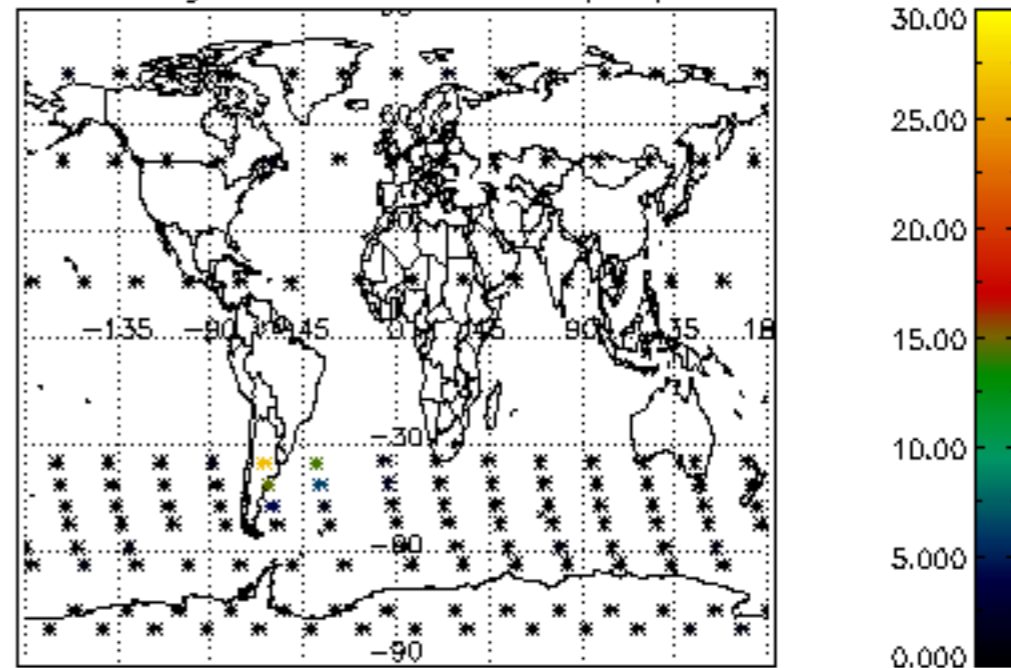
Percentage of datation errors per profile



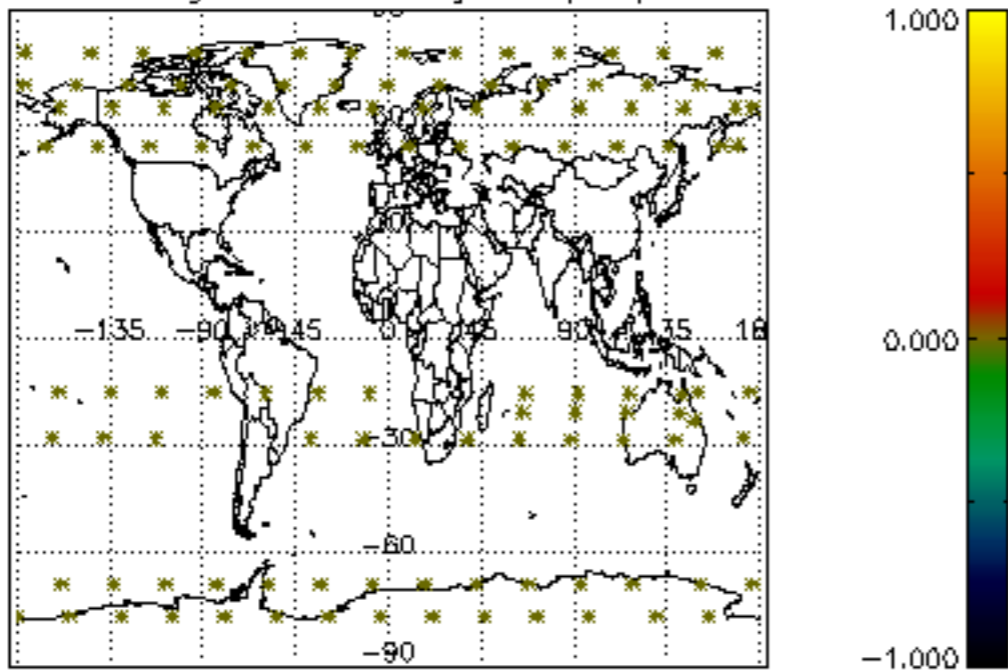
Percentage of star falling outside central band per profile



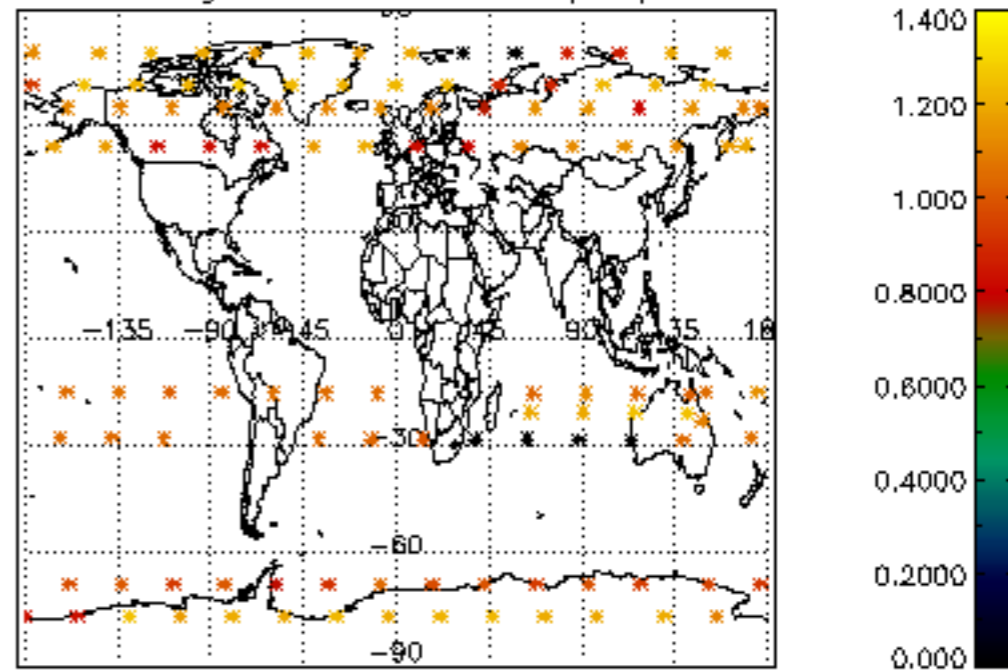
Percentage of saturation errors per profile



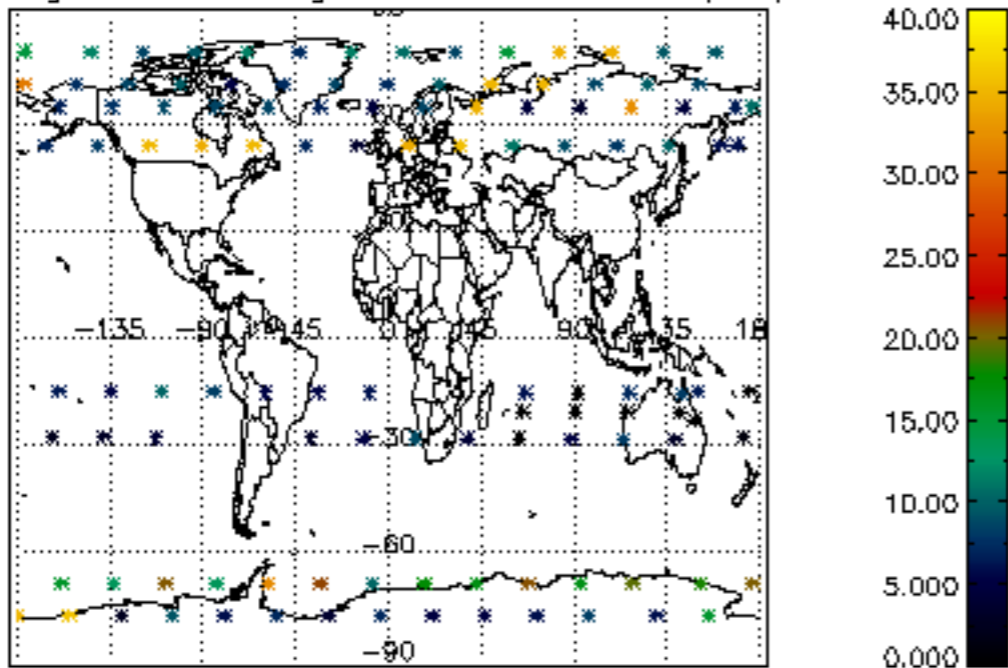
Percentage of cosmic ray hits per profile



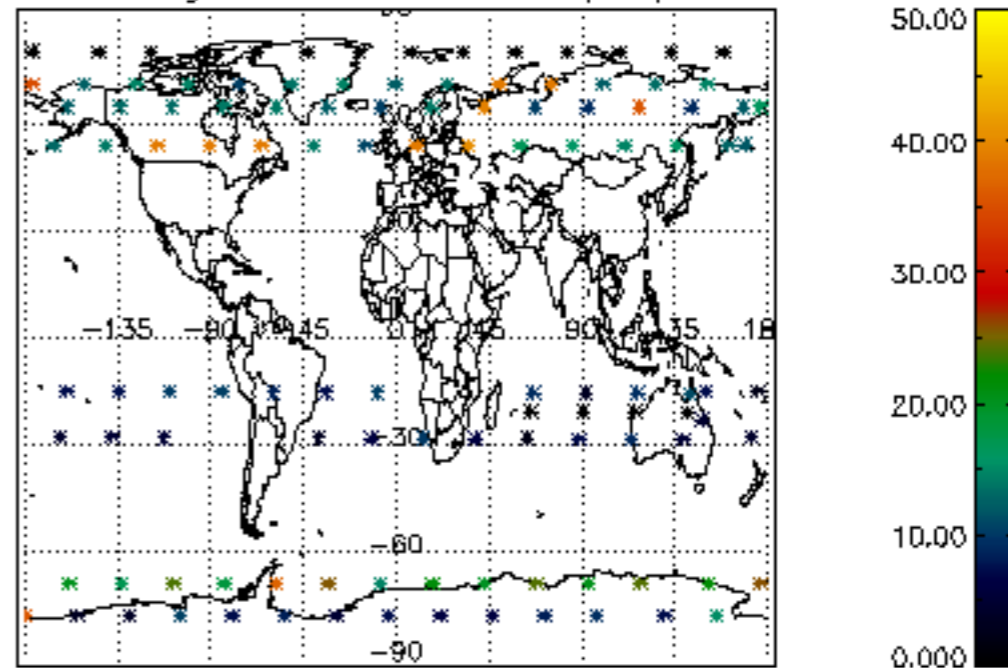
Percentage of datation errors per profile

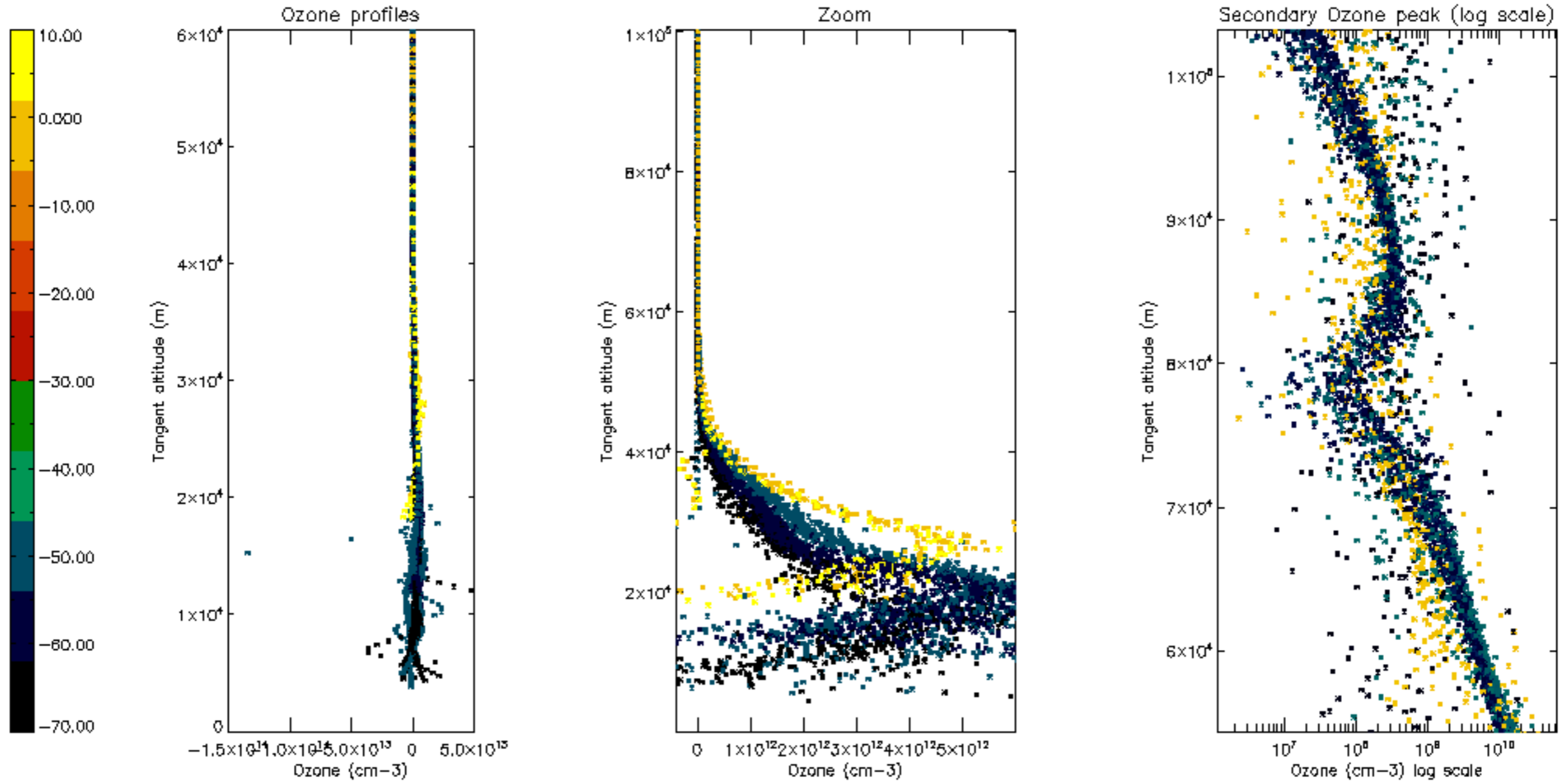


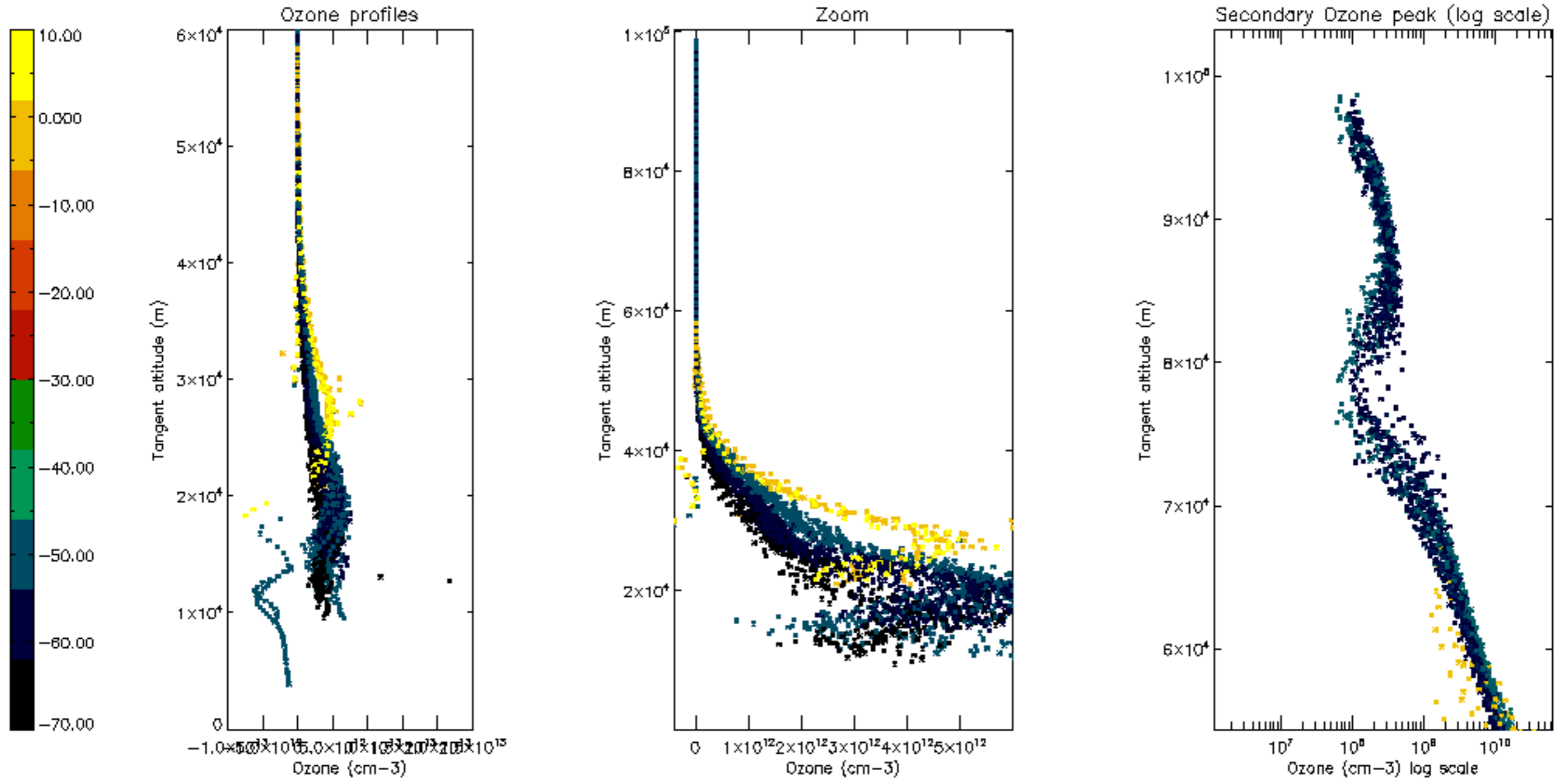
Percentage of star falling outside central band per profile

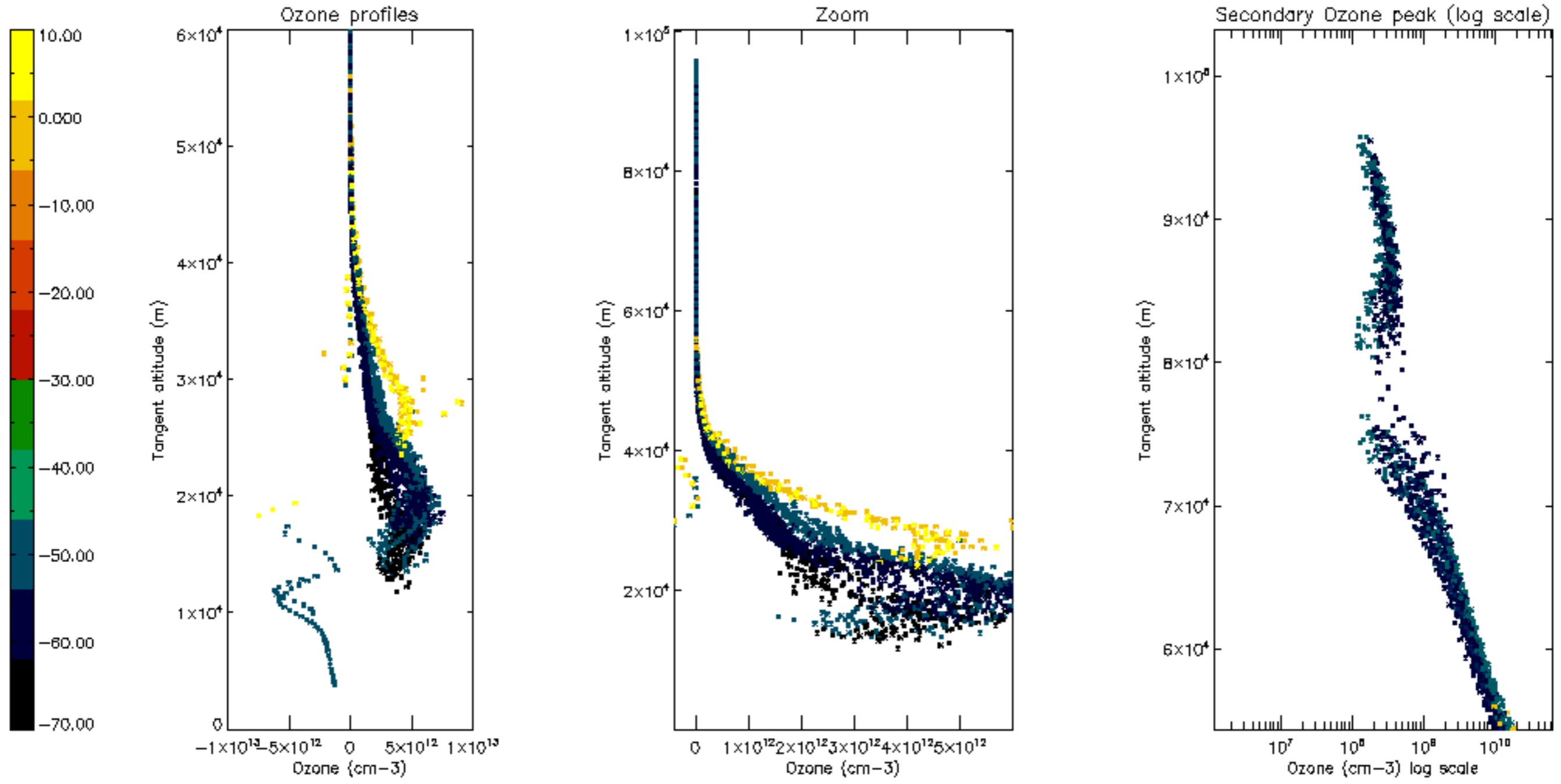


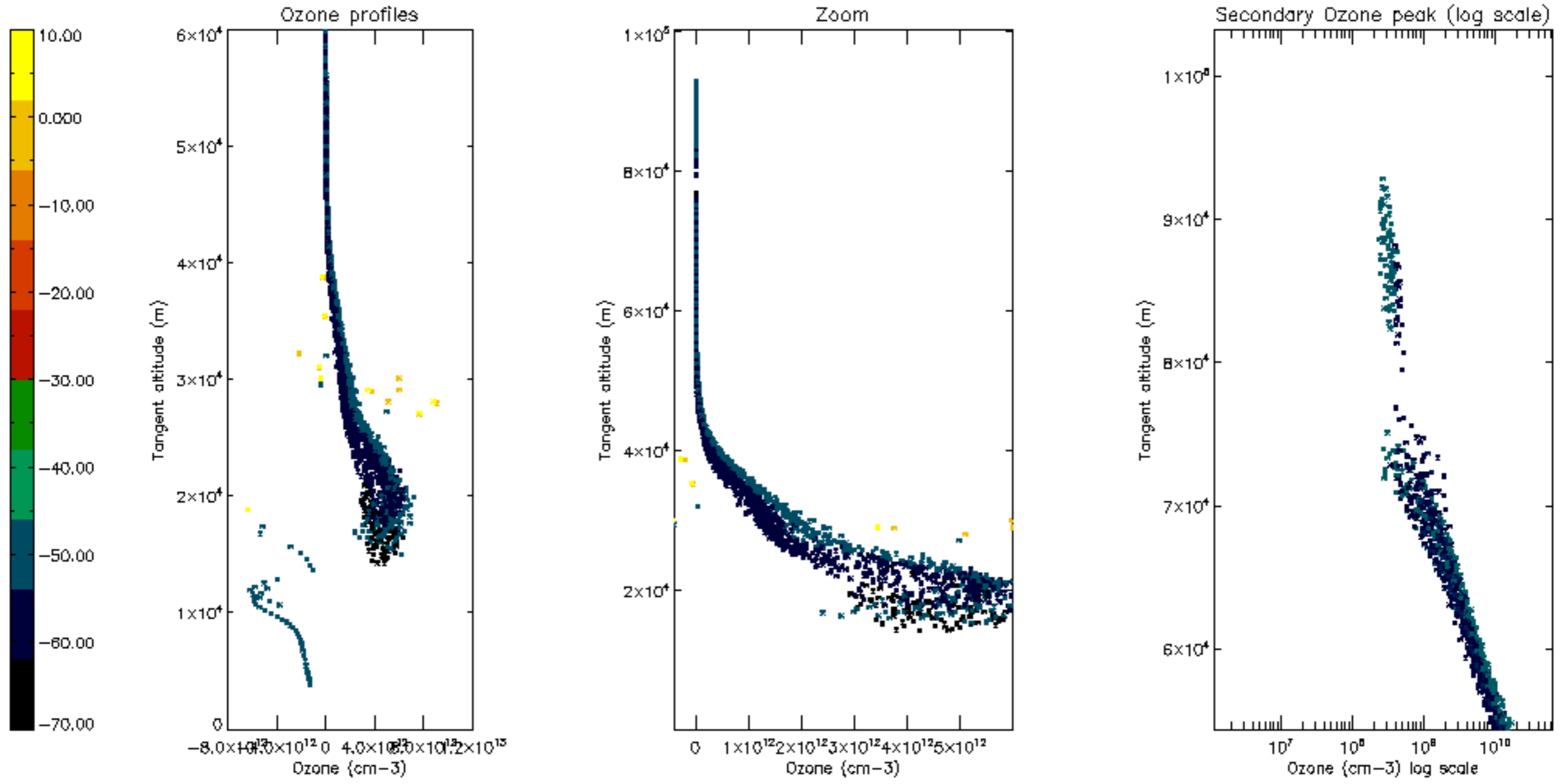
Percentage of saturation errors per profile

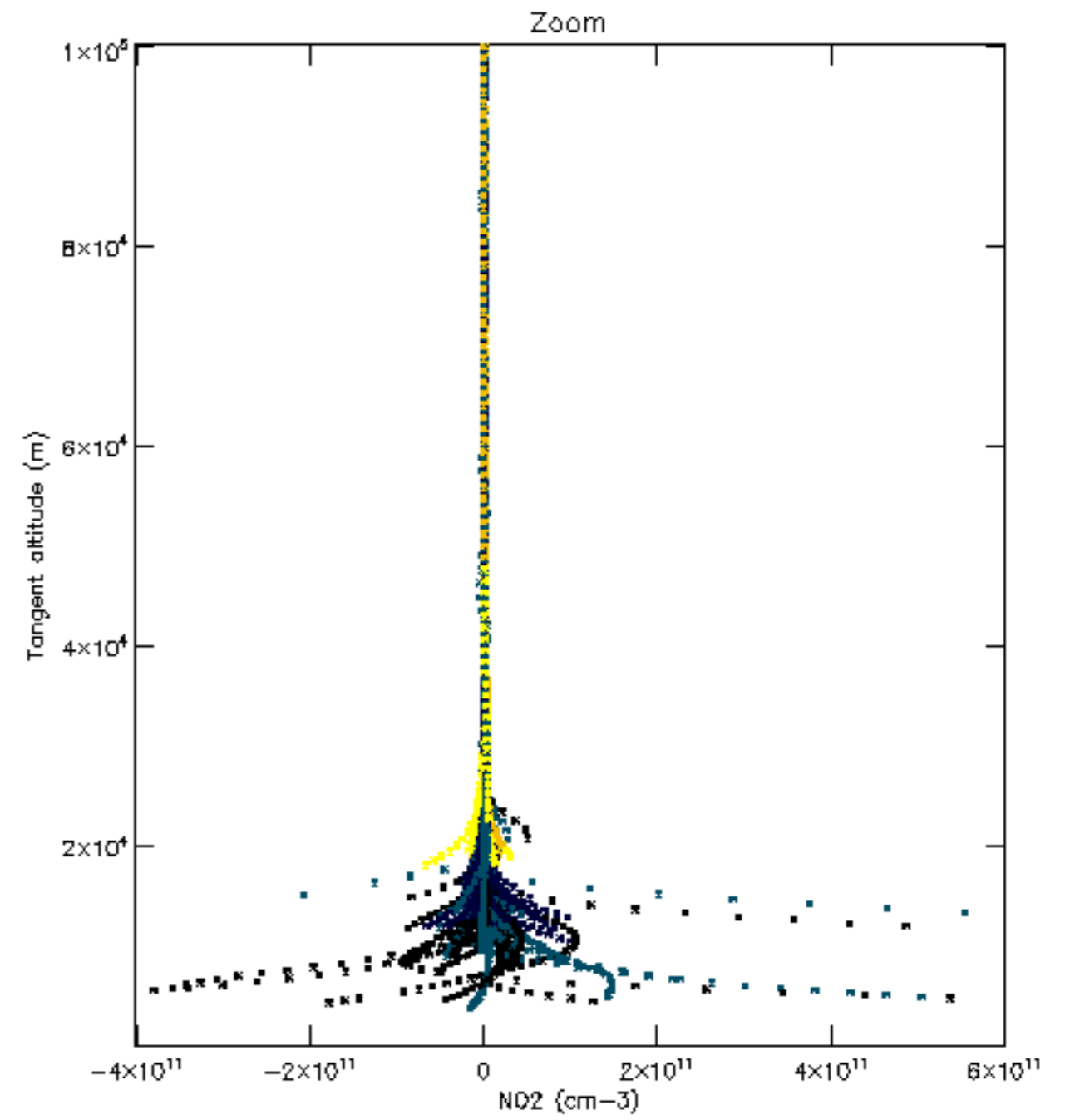
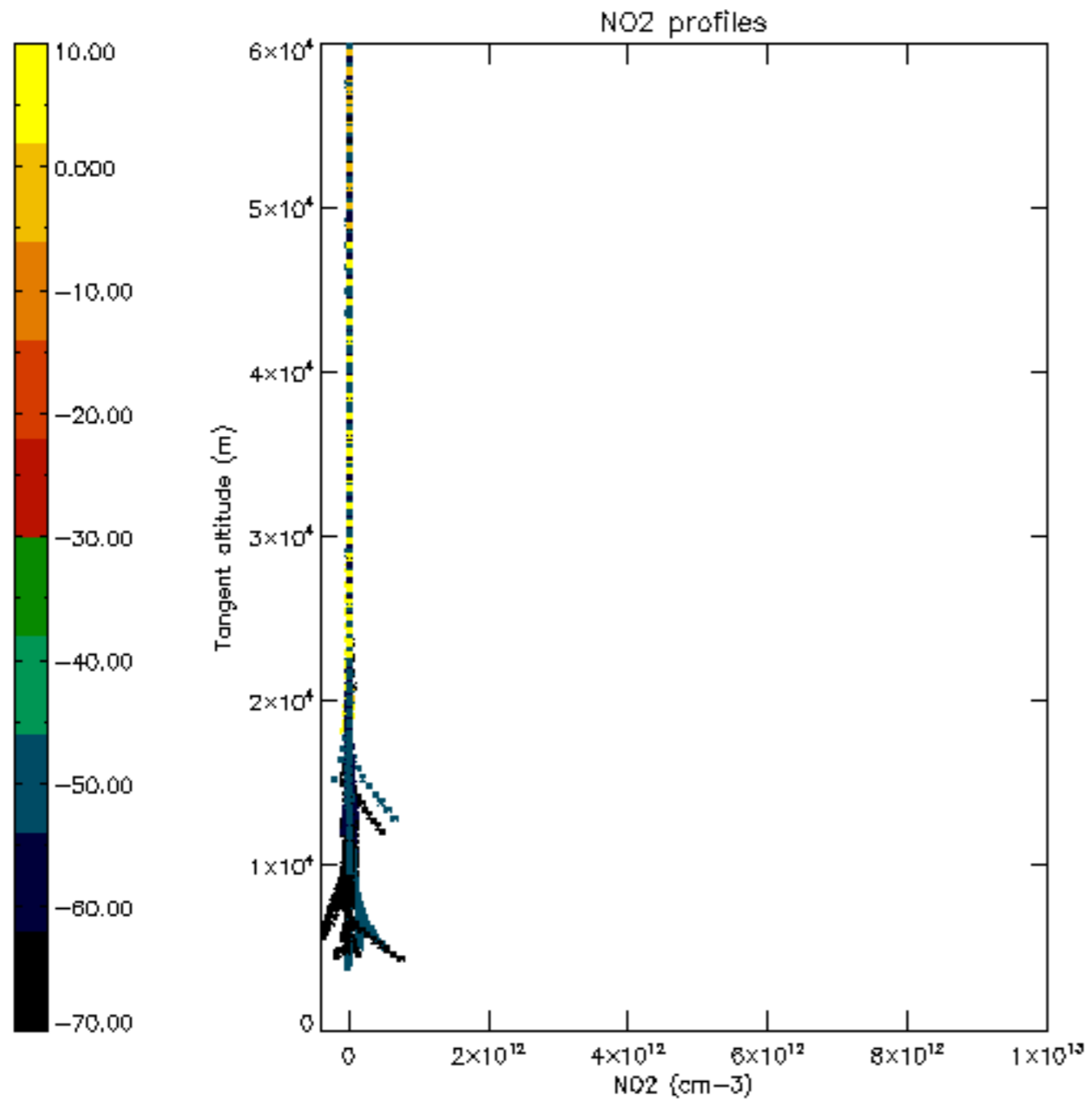


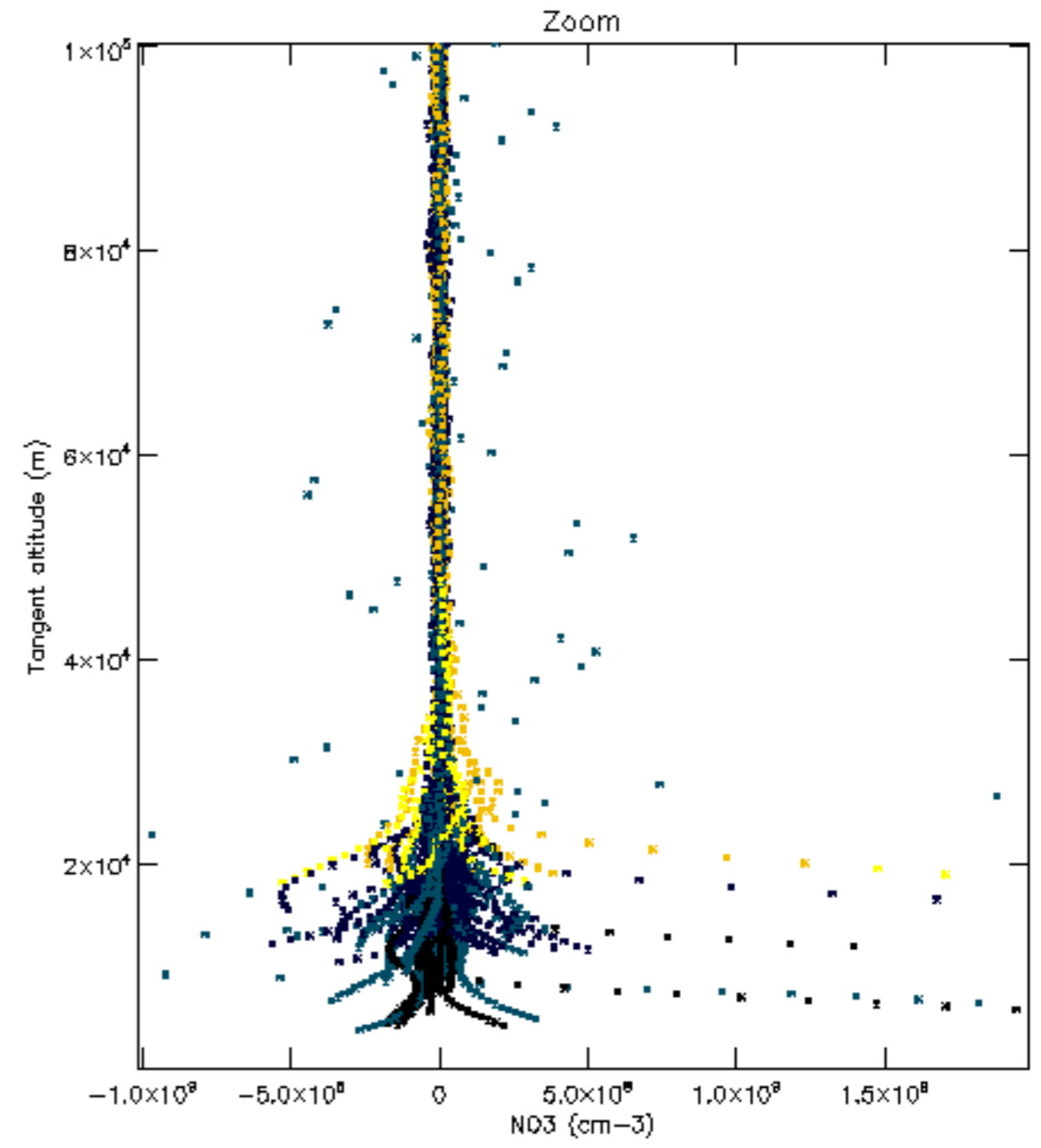
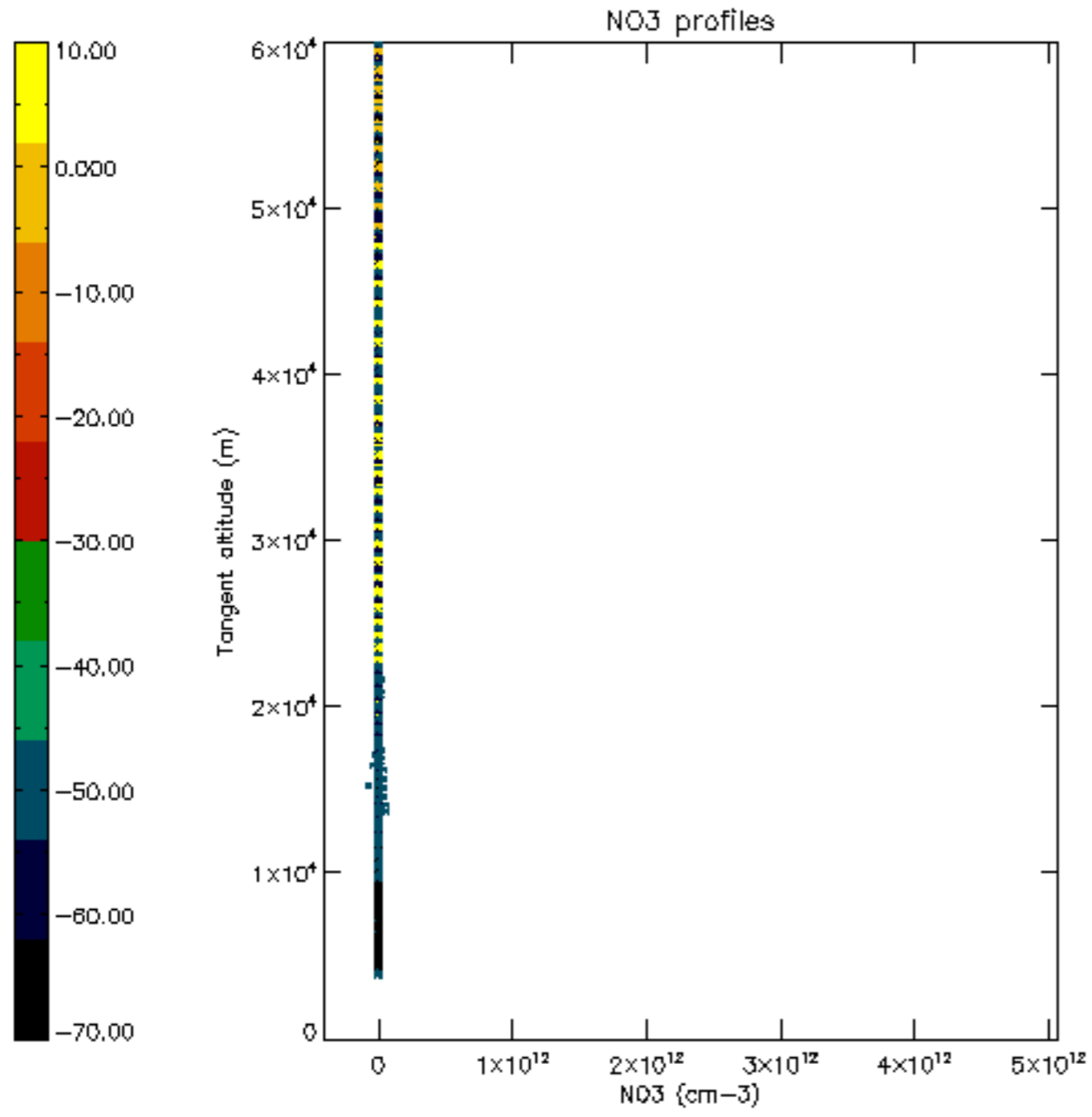


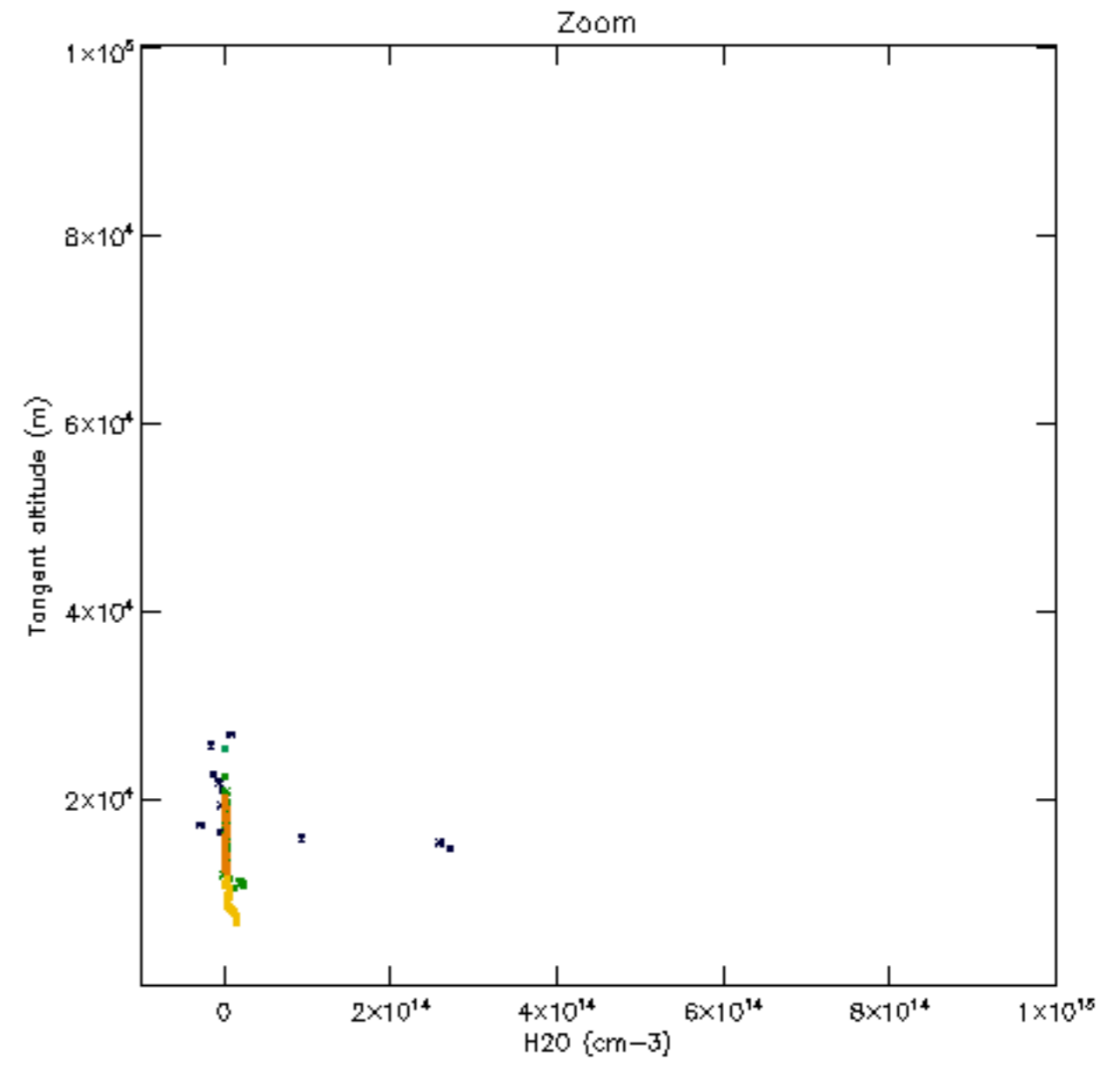
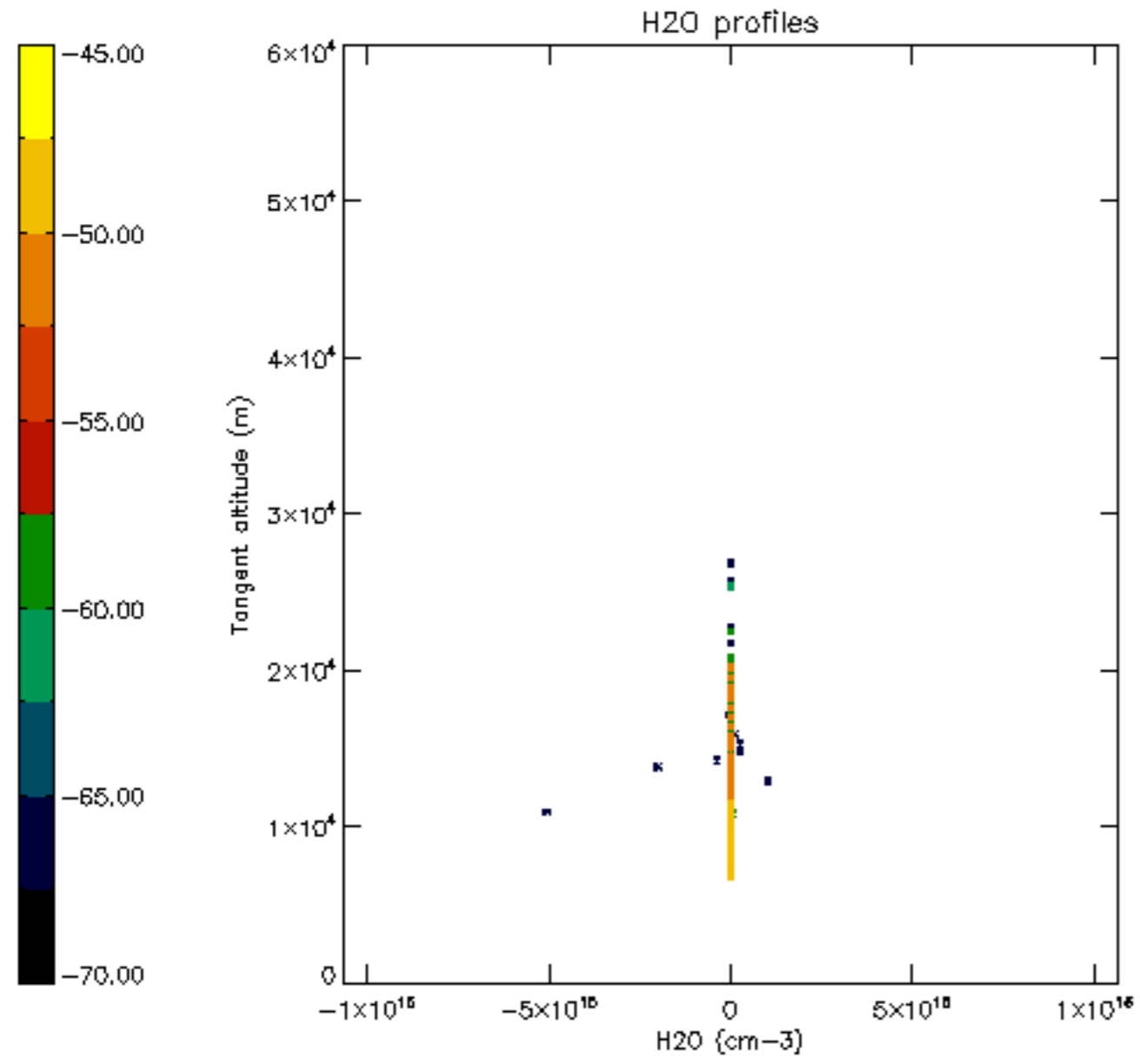


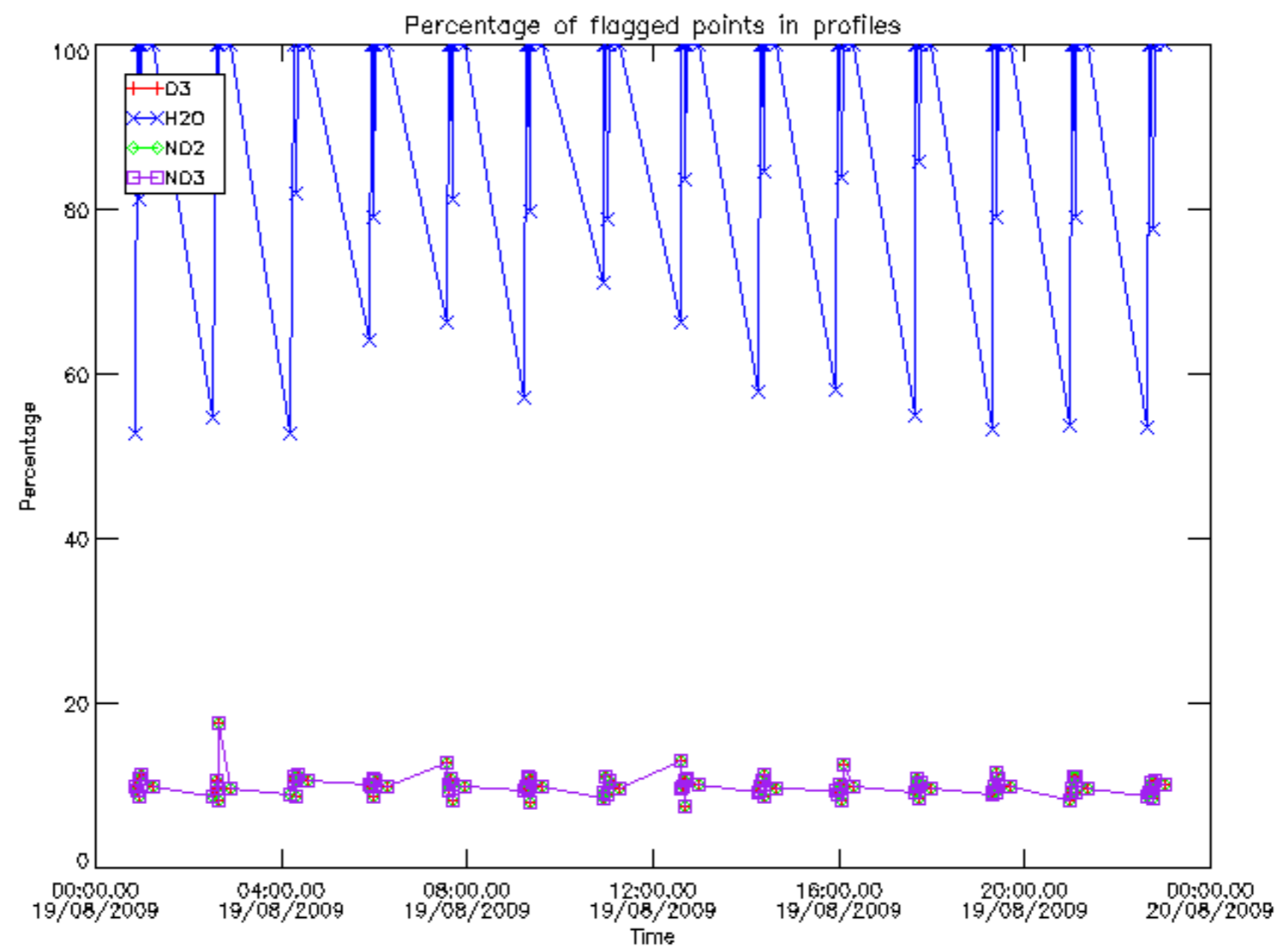




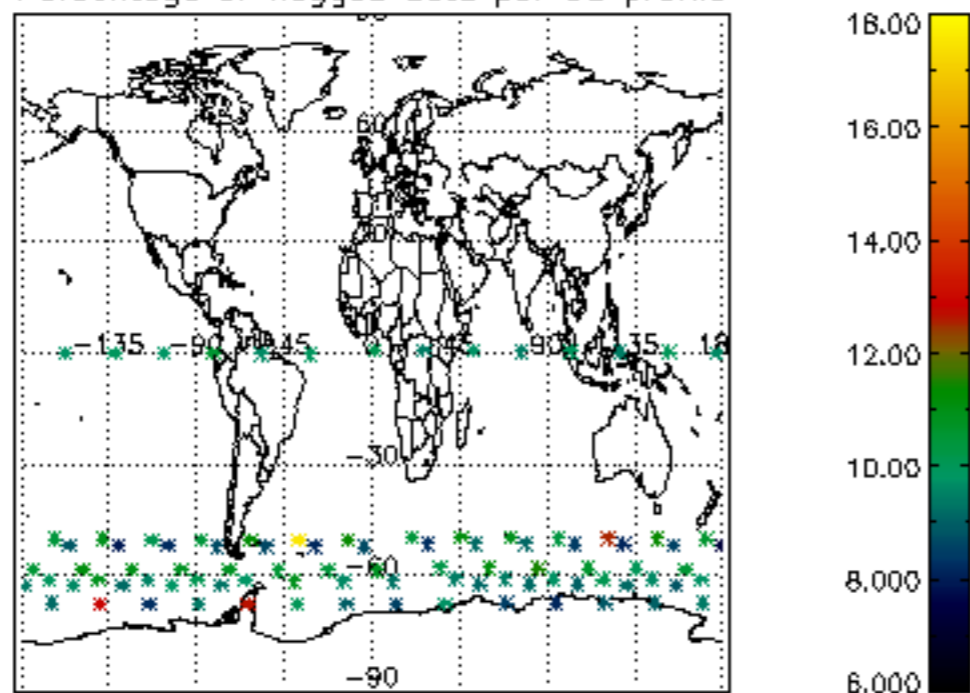




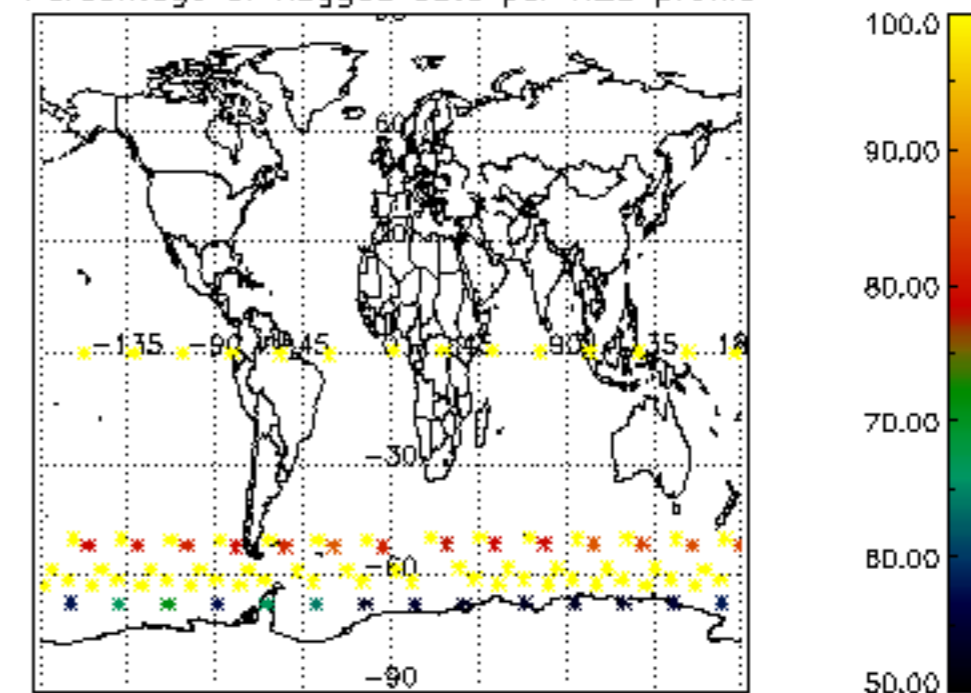




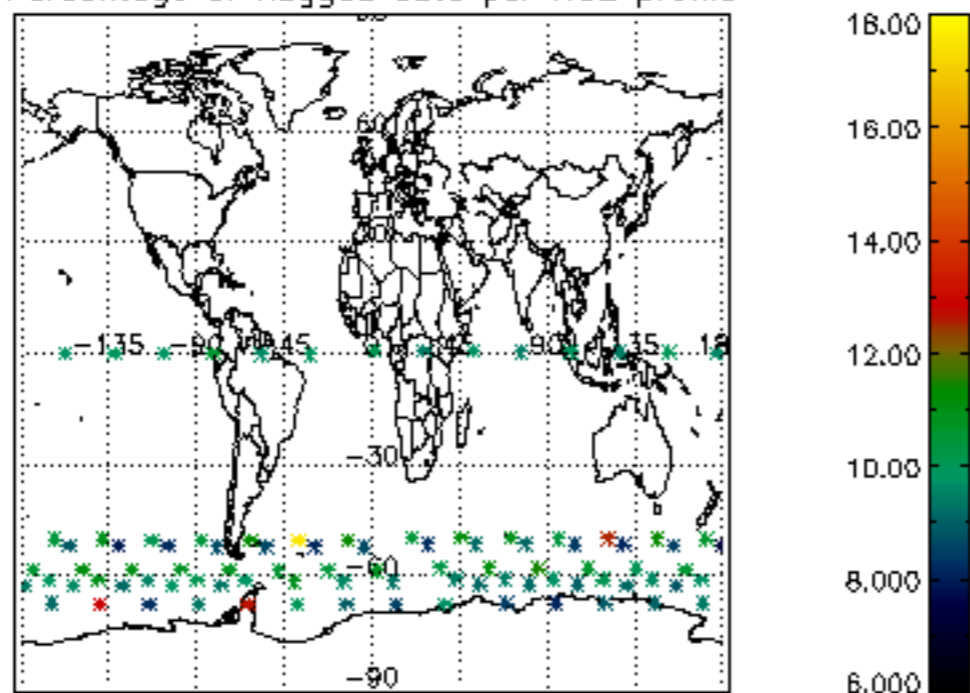
Percentage of flagged data per D3 profile



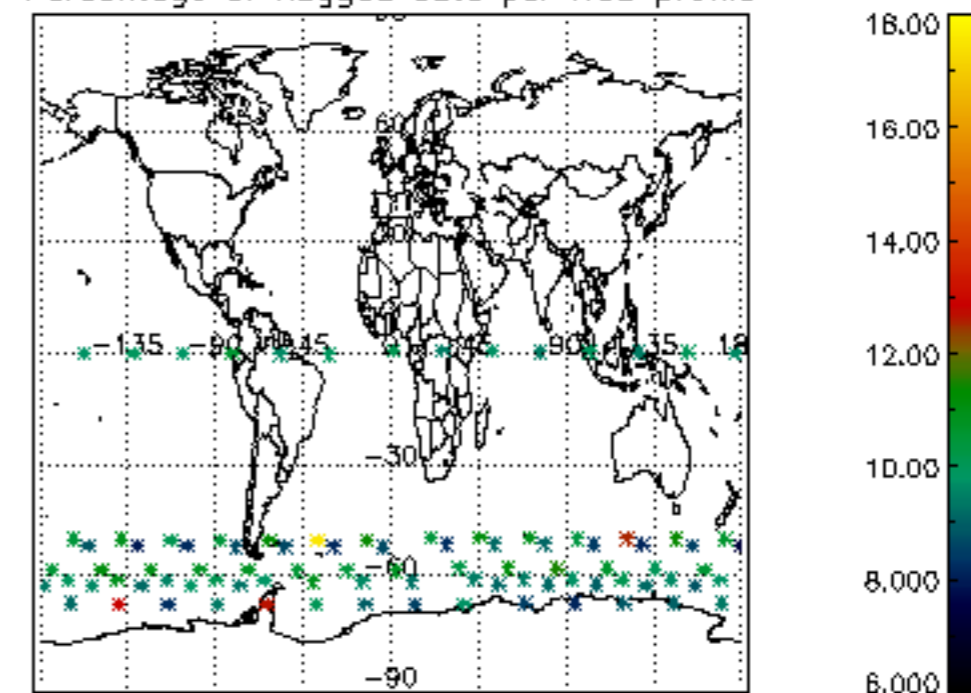
Percentage of flagged data per H2O profile

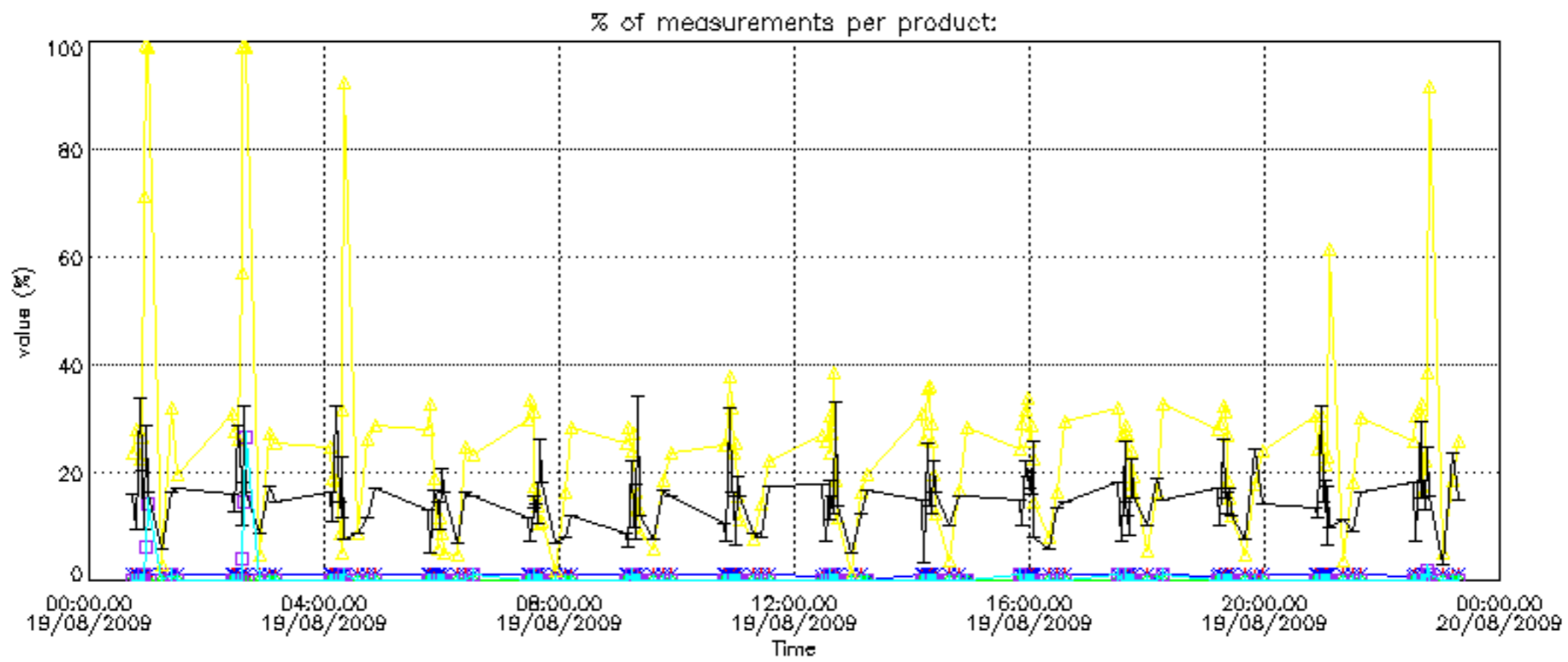
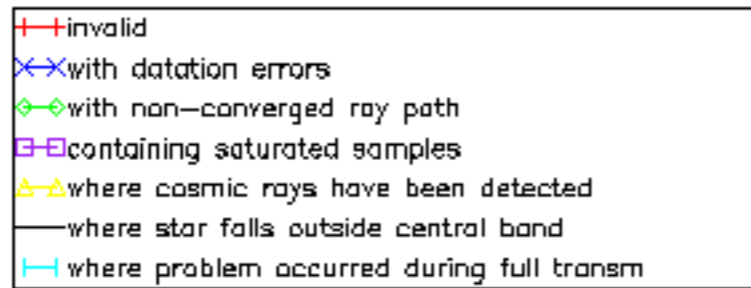


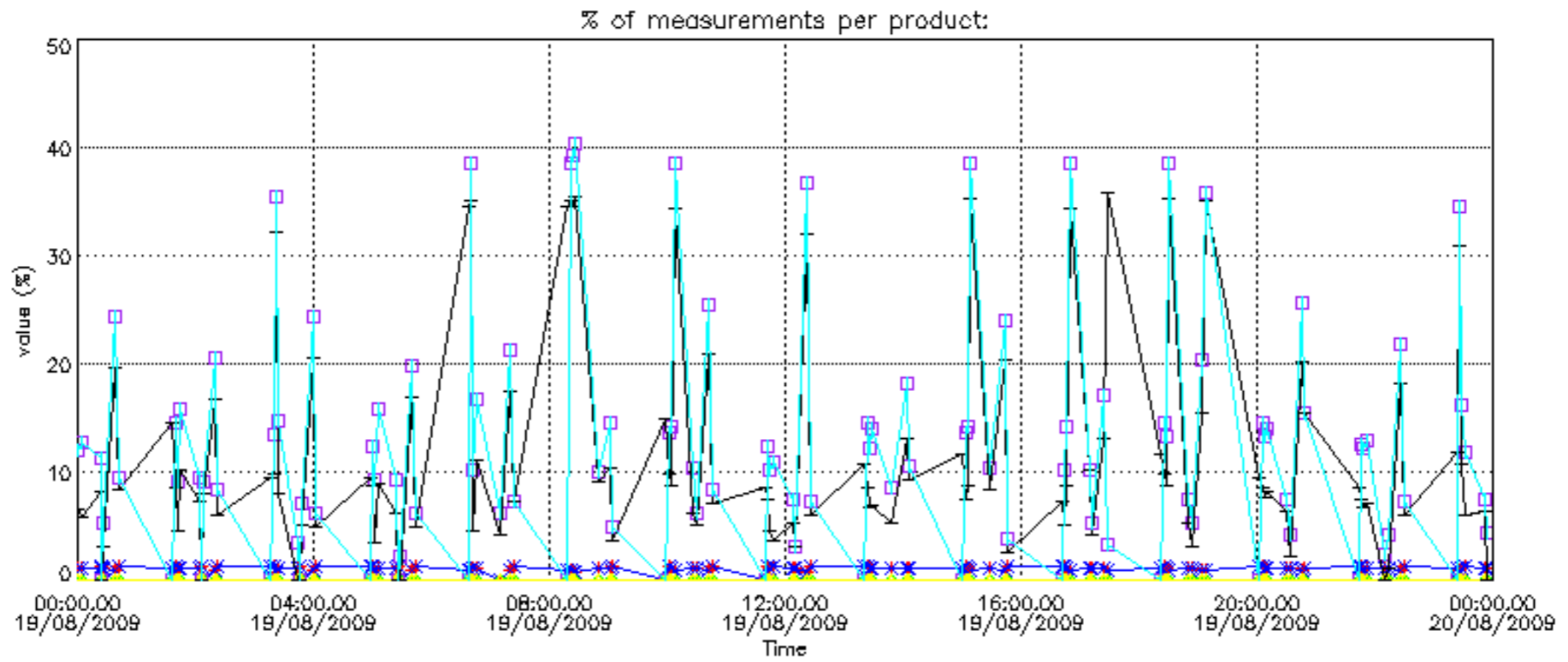
Percentage of flagged data per NO2 profile



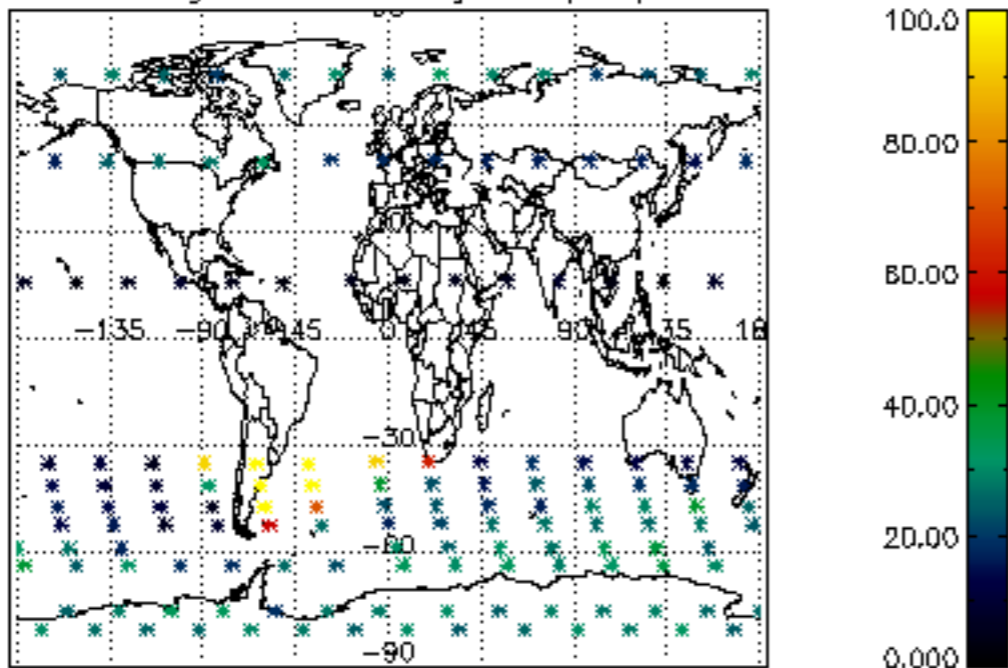
Percentage of flagged data per NO3 profile



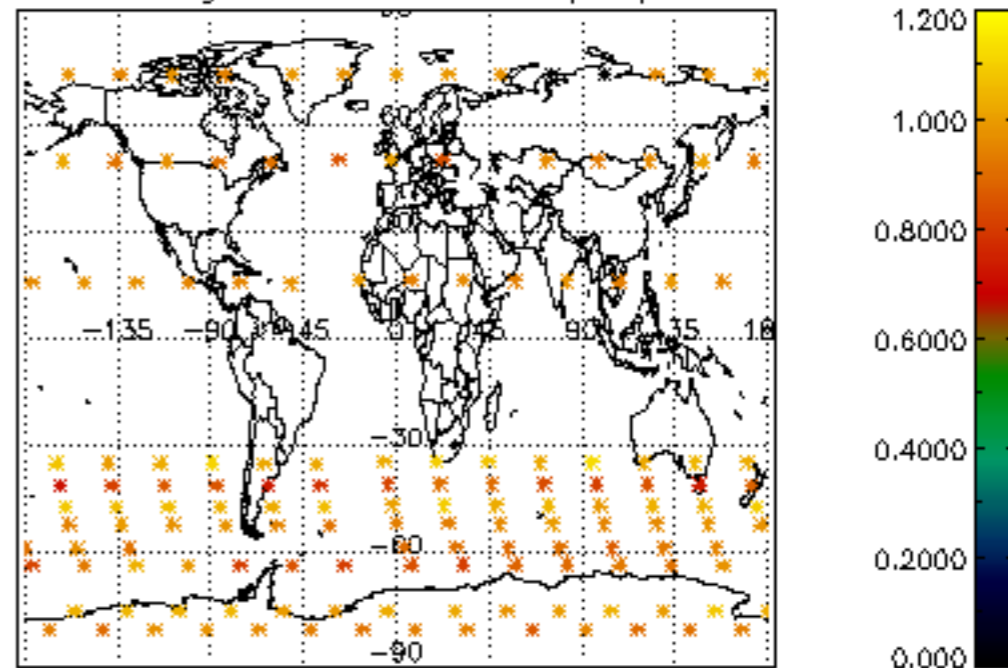




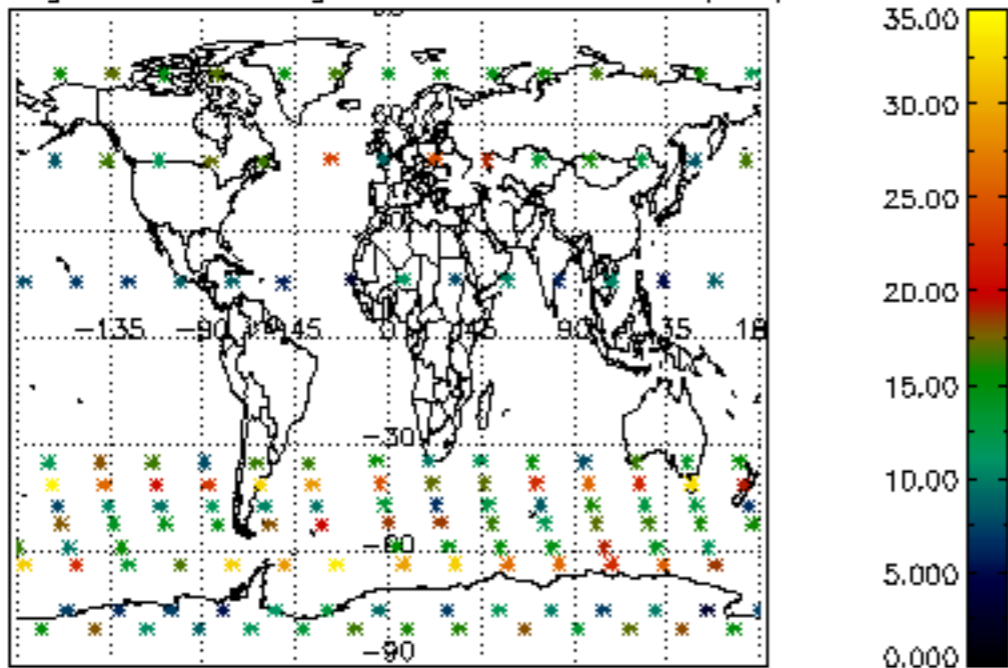
Percentage of cosmic ray hits per profile



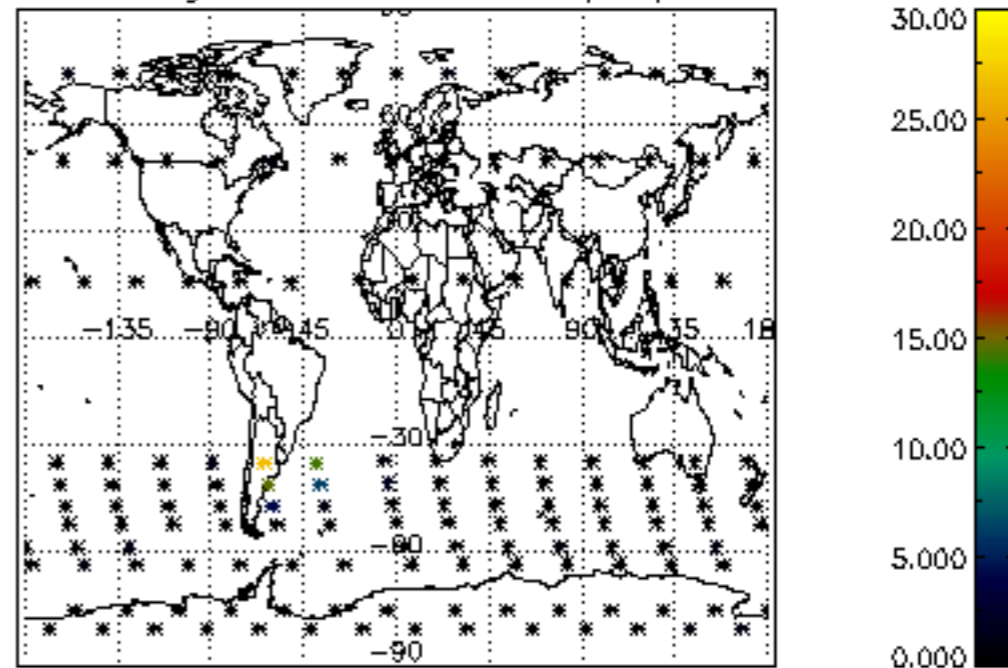
Percentage of datation errors per profile



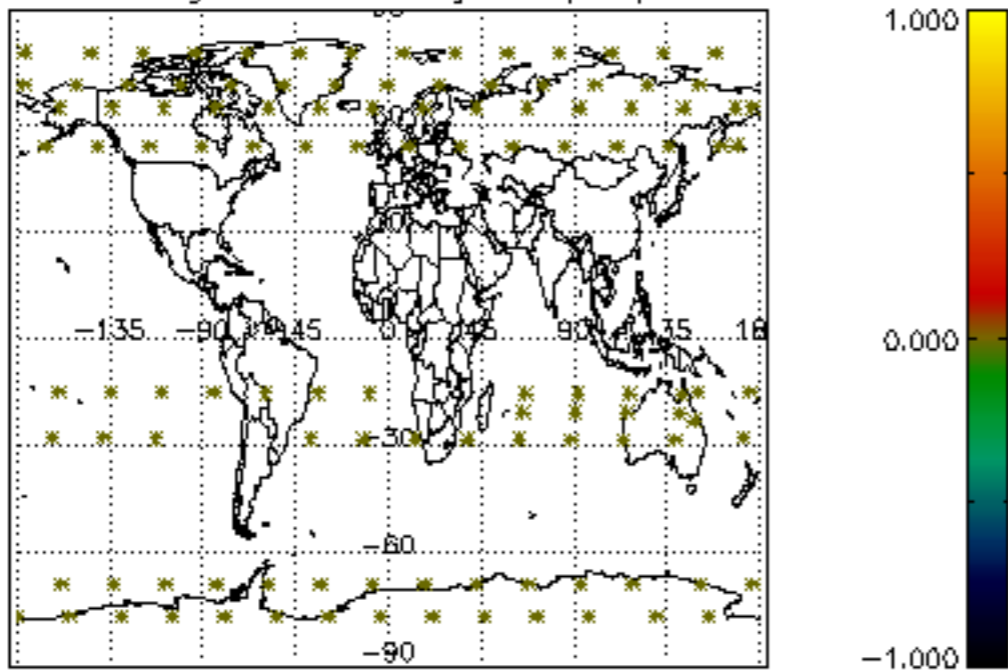
Percentage of star falling outside central band per profile



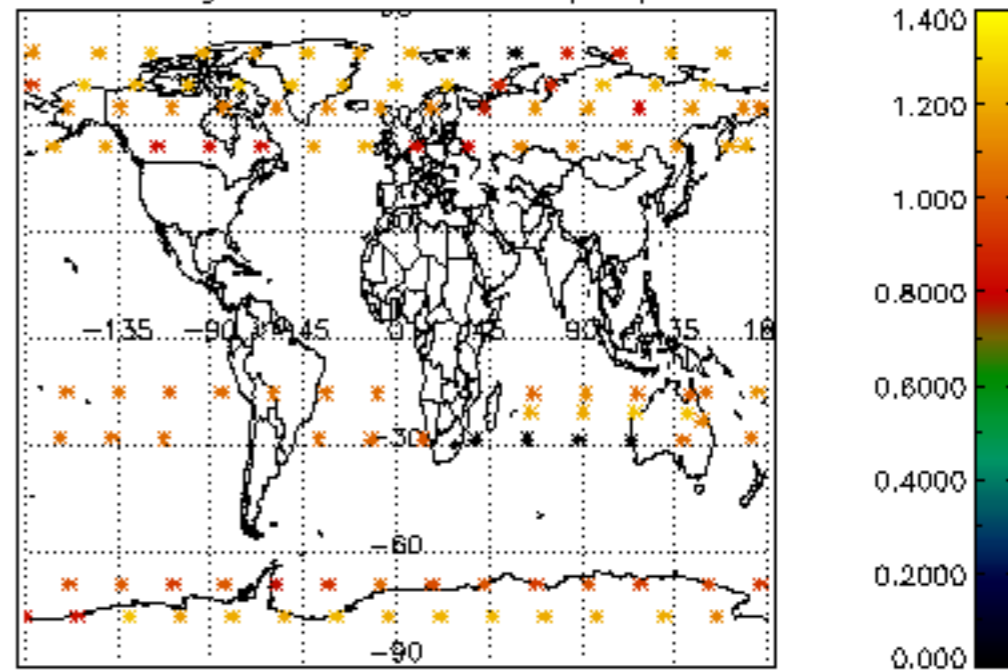
Percentage of saturation errors per profile



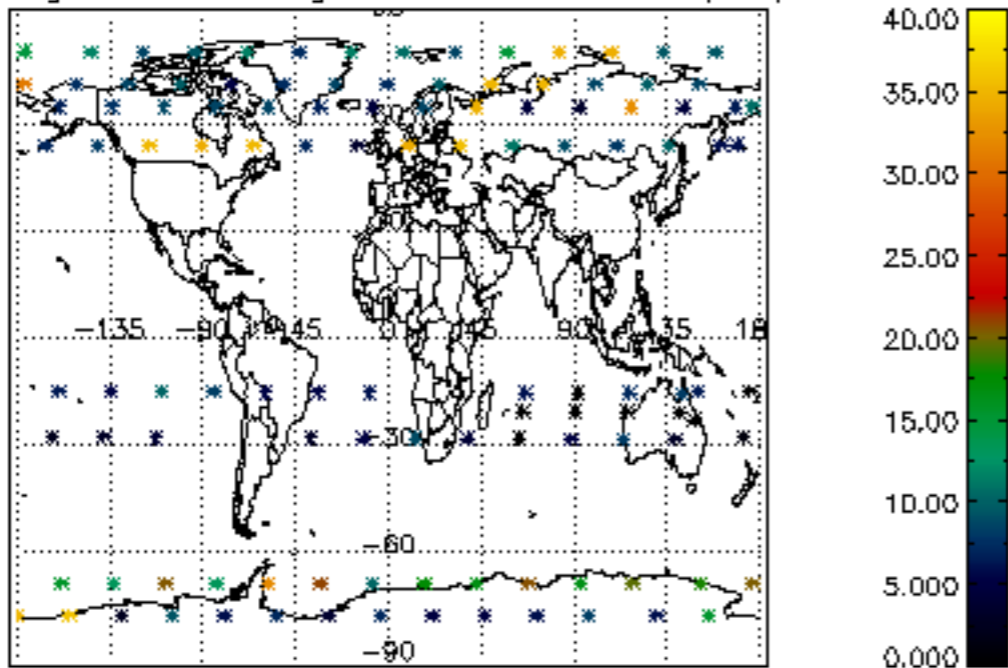
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

