

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	24APR2013 09:30:14
Data source version	GOMOS/6.01
Start time of products	22-01-2011 (22JAN2011 00:00:00)
Stop time of products	23-01-2011 (23JAN2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	324
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

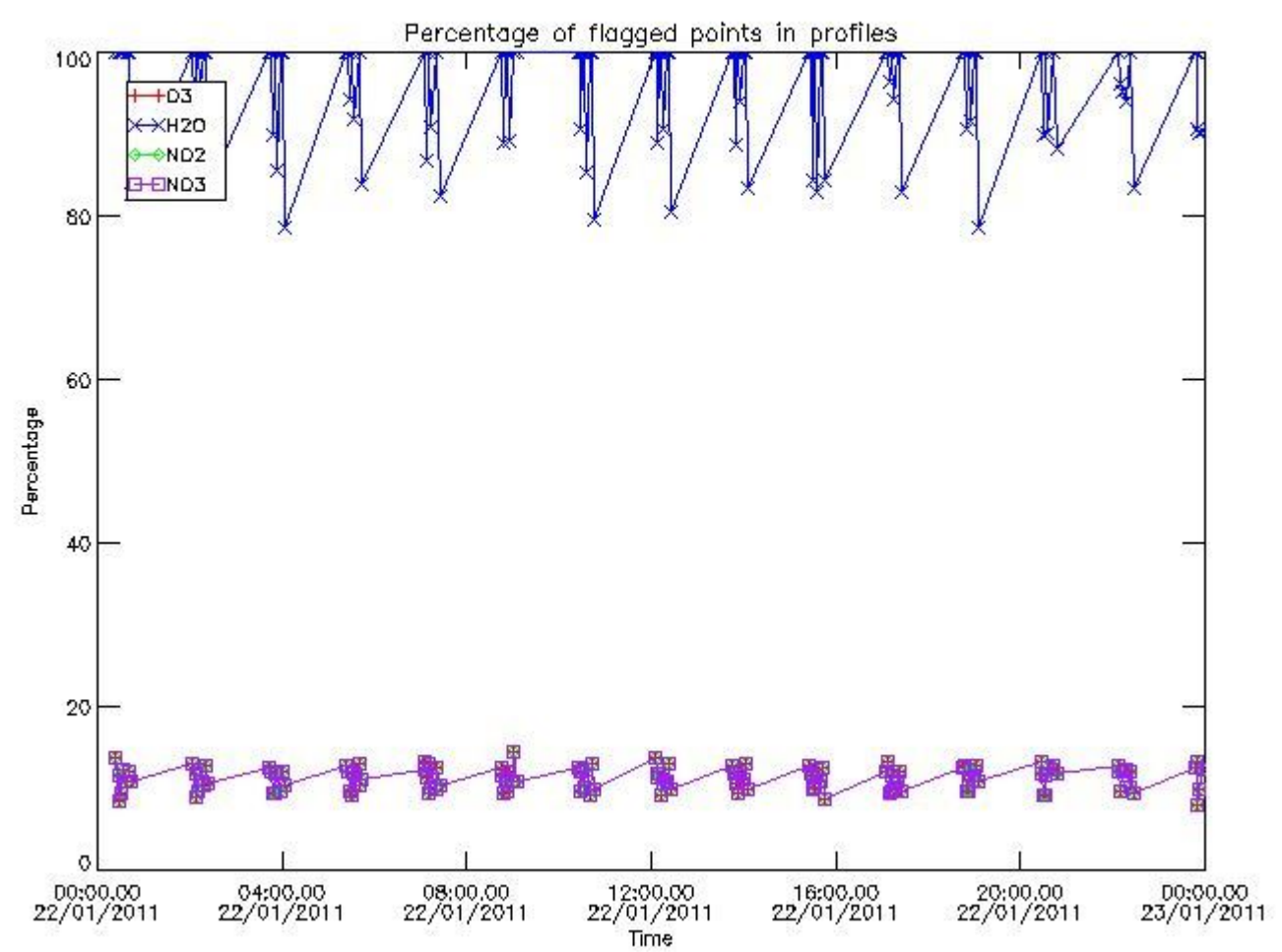
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110122_000043_000000503098_00375_46510_0792.N1	22-JAN-2011 00:00:43	Bright	49.500	133	40Zet Her	2.8070	6000.0	99	46510	No
2	GOM_NL__2PRFIN20110122_000305_000000703098_00375_46510_0793.N1	22-JAN-2011 00:03:05	Bright	70.000	67	5Alp CrB	2.2210	11000.	140	46510	No
3	GOM_NL__2PRFIN20110122_000958_000000573098_00375_46510_0794.N1	22-JAN-2011 00:09:58	Bright	56.500	102	24Alp Ser	2.6000	4250.0	113	46510	No
4	GOM_NL__2PRFIN20110122_001313_000000433098_00375_46510_0795.N1	22-JAN-2011 00:13:13	Bright	43.000	98	13Zet Oph	2.5710	30000.	86	46510	No
5	GOM_NL__2PRFIN20110122_001741_000000473098_00375_46510_0796.N1	22-JAN-2011 00:17:41	Twilight	47.000	16	21Alp Sco	1.0200	3000.0	94	46510	No
6	GOM_NL__2PRFIN20110122_002310_000000413098_00375_46510_0797.N1	22-JAN-2011 00:23:10	Dark	40.500	131	Gam Lup	2.8000	26000.	81	46510	No
7	GOM_NL__2PRFIN20110122_002701_000000613098_00376_46511_0787.N1	22-JAN-2011 00:27:01	Dark	60.500	54	5The Cen	2.0550	4500.0	121	46511	No
8	GOM_NL__2PRFIN20110122_002851_000000453098_00376_46511_0788.N1	22-JAN-2011 00:28:51	Dark	44.500	95	Zet Cen	2.5450	26000.	89	46511	No
9	GOM_NL__2PRFIN20110122_003032_000000553098_00376_46511_0789.N1	22-JAN-2011 00:30:32	Dark	54.500	123	lot Cen	2.7500	10200.	109	46511	No
10	GOM_NL__2PRFIN20110122_003318_000000423098_00376_46511_0790.N1	22-JAN-2011 00:33:18	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	46511	No
11	GOM_NL__2PRFIN20110122_003846_000000473098_00376_46511_0791.N1	22-JAN-2011 00:38:46	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	46511	No
12	GOM_NL__2PRFIN20110122_004027_000000423098_00376_46511_0792.N1	22-JAN-2011 00:40:27	Dark	42.000	91	Kap Vel	2.4900	26000.	84	46511	No
13	GOM_NL__2PRFIN20110122_004345_000000473098_00376_46511_0793.N1	22-JAN-2011 00:43:45	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	46511	No
14	GOM_NL__2PRFIN20110122_004610_000000413098_00376_46511_0794.N1	22-JAN-2011 00:46:10	Straylight	41.000	70	Zet Pup	2.2460	39000.	82	46511	No
15	GOM_NL__2PRFIN20110122_005040_000000463098_00376_46511_0795.N1	22-JAN-2011 00:50:40	Straylight	45.500	132	15Rho Pup	2.8030	6900.0	91	46511	No
16	GOM_NL__2PRFIN20110122_005957_000000423098_00376_46511_0796.N1	22-JAN-2011 00:59:57	Tw_and_stray	41.500	8	10Alp CMi	0.40000	6500.0	83	46511	No
17	GOM_NL__2PRFIN20110122_010534_000000523098_00376_46511_0797.N1	22-JAN-2011 01:05:34	Bright	51.500	170	27Eps Gem	3.0000	9700.0	103	46511	No
18	GOM_NL__2PRFIN20110122_010704_000000453098_00376_46511_0798.N1	22-JAN-2011 01:07:04	Bright	44.500	17	78Bet Gem	1.1610	4500.0	89	46511	No
19	GOM_NL__2PRFIN20110122_012256_000000443098_00376_46511_0799.N1	22-JAN-2011 01:22:56	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	46511	No
20	GOM_NL__2PRFIN20110122_012718_000000383098_00376_46511_0800.N1	22-JAN-2011 01:27:18	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	46511	No
21	GOM_NL__2PRFIN20110122_013147_000000393098_00376_46511_0801.N1	22-JAN-2011 01:31:47	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	46511	No
22	GOM_NL__2PRFIN20110122_014057_000000383098_00376_46511_0802.N1	22-JAN-2011 01:40:57	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	46511	No
23	GOM_NL__2PRFIN20110122_014319_000000703098_00376_46511_0803.N1	22-JAN-2011 01:43:19	Bright	70.000	67	5Alp CrB	2.2210	11000.	140	46511	No
24	GOM_NL__2PRFIN20110122_015013_000000513098_00376_46511_0804.N1	22-JAN-2011 01:50:13	Bright	50.500	102	24Alp Ser	2.6000	4250.0	101	46511	No
25	GOM_NL__2PRFIN20110122_015327_000000423098_00376_46511_0805.N1	22-JAN-2011 01:53:27	Bright	41.500	98	13Zet Oph	2.5710	30000.	83	46511	No
26	GOM_NL__2PRFIN20110122_015756_000000523098_00376_46511_0806.N1	22-JAN-2011 01:57:56	Twilight	52.000	16	21Alp Sco	1.0200	3000.0	104	46511	No
27	GOM_NL__2PRFIN20110122_020324_000000433098_00376_46511_0807.N1	22-JAN-2011 02:03:24	Dark	43.000	131	Gam Lup	2.8000	26000.	86	46511	No
28	GOM_NL__2PRFIN20110122_020716_000000573098_00377_46512_0819.N1	22-JAN-2011 02:07:16	Dark	56.500	54	5The Cen	2.0550	4500.0	113	46512	No
29	GOM_NL__2PRFIN20110122_020906_000000443098_00377_46512_0820.N1	22-JAN-2011 02:09:06	Dark	43.500	95	Zet Cen	2.5450	26000.	87	46512	No
30	GOM_NL__2PRFIN20110122_021047_000000543098_00377_46512_0821.N1	22-JAN-2011 02:10:47	Dark	53.500	123	lot Cen	2.7500	10200.	107	46512	No
31	GOM_NL__2PRFIN20110122_021333_000000463098_00377_46512_0822.N1	22-JAN-2011 02:13:33	Dark	46.000	12	Alp1Cru	0.77500	30000.	92	46512	No
32	GOM_NL__2PRFIN20110122_021901_000000503098_00377_46512_0823.N1	22-JAN-2011 02:19:01	Dark	49.500	113	Mu Vel	2.6920	5000.0	99	46512	No
33	GOM_NL__2PRFIN20110122_022041_000000403098_00377_46512_0824.N1	22-JAN-2011 02:20:41	Dark	40.000	91	Kap Vel	2.4900	26000.	80	46512	No
34	GOM_NL__2PRFIN20110122_022400_000000483098_00377_46512_0825.N1	22-JAN-2011 02:24:00	Dark	48.000	65	Lam Vel	2.2040	4400.0	96	46512	No
35	GOM_NL__2PRFIN20110122_022624_000000413098_00377_46512_0826.N1	22-JAN-2011 02:26:24	Straylight	41.000	70	Zet Pup	2.2460	39000.	82	46512	No
36	GOM_NL__2PRFIN20110122_023055_000000463098_00377_46512_0827.N1	22-JAN-2011 02:30:55	Straylight	46.000	132	15Rho Pup	2.8030	6900.0	92	46512	No
37	GOM_NL__2PRFIN20110122_024011_000000493098_00377_46512_0828.N1	22-JAN-2011 02:40:11	Tw_and_stray	49.000	8	10Alp CMi	0.40000	6500.0	98	46512	No
38	GOM_NL__2PRFIN20110122_024548_000000383098_00377_46512_0829.N1	22-JAN-2011 02:45:48	Bright	38.000	170	27Eps Gem	3.0000	9700.0	76	46512	No
39	GOM_NL__2PRFIN20110122_024717_000000443098_00377_46512_0830.N1	22-JAN-2011 02:47:17	Bright	43.500	17	78Bet Gem	1.1610	4500.0	87	46512	No
40	GOM_NL__2PRFIN20110122_030309_000000483098_00377_46512_0831.N1	22-JAN-2011 03:03:09	Bright	48.000	36	50Alp UMa	1.8000	6300.0	96	46512	No
41	GOM_NL__2PRFIN20110122_030731_000000443098_00377_46512_0832.N1	22-JAN-2011 03:07:31	Bright	43.500	60	7Bet UMi	2.0810	3950.0	87	46512	No
42	GOM_NL__2PRFIN20110122_031201_000000393098_00377_46512_0833.N1	22-JAN-2011 03:12:01	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	46512	No

279	GOM_NL__2PRFIN20110122_203336_000000563098_00388_46523_1097.N1	22-JAN-2011 20:33:36	Dark	55.500	123	lot Cen	2.7500	10200.	111	46523	No
280	GOM_NL__2PRFIN20110122_203614_000000413098_00388_46523_1098.N1	22-JAN-2011 20:36:14	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	46523	No
281	GOM_NL__2PRFIN20110122_204143_000000463098_00388_46523_1099.N1	22-JAN-2011 20:41:43	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	46523	No
282	GOM_NL__2PRFIN20110122_204320_000000403098_00388_46523_1100.N1	22-JAN-2011 20:43:20	Dark	40.000	91	Kap Vel	2.4900	26000.	80	46523	No
283	GOM_NL__2PRFIN20110122_204639_000000523098_00388_46523_1101.N1	22-JAN-2011 20:46:39	Dark	51.500	65	Lam Vel	2.2040	4400.0	103	46523	No
284	GOM_NL__2PRFIN20110122_204902_000000423098_00388_46523_1102.N1	22-JAN-2011 20:49:02	Straylight	42.000	70	Zet Pup	2.2460	39000.	84	46523	No
285	GOM_NL__2PRFIN20110122_205331_000000443098_00388_46523_1103.N1	22-JAN-2011 20:53:31	Straylight	44.000	132	15Rho Pup	2.8030	6900.0	88	46523	No
286	GOM_NL__2PRFIN20110122_210245_000000543098_00388_46523_1104.N1	22-JAN-2011 21:02:45	Twilight	53.500	8	10Alp CMi	0.40000	6500.0	107	46523	No
287	GOM_NL__2PRFIN20110122_210822_000000393098_00388_46523_1105.N1	22-JAN-2011 21:08:22	Bright	39.000	170	27Eps Gem	3.0000	9700.0	78	46523	No
288	GOM_NL__2PRFIN20110122_210948_000000453098_00388_46523_1106.N1	22-JAN-2011 21:09:48	Bright	45.000	17	78Bet Gem	1.1610	4500.0	90	46523	No
289	GOM_NL__2PRFIN20110122_212535_000000493098_00388_46523_1107.N1	22-JAN-2011 21:25:35	Bright	48.500	36	50Alp UMa	1.8000	6300.0	97	46523	No
290	GOM_NL__2PRFIN20110122_213004_000000373098_00388_46523_1108.N1	22-JAN-2011 21:30:04	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	46523	No
291	GOM_NL__2PRFIN20110122_213434_000000403098_00388_46523_1109.N1	22-JAN-2011 21:34:34	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	46523	No
292	GOM_NL__2PRFIN20110122_213724_000000353098_00388_46523_1110.N1	22-JAN-2011 21:37:24	Bright	34.500	130	23Bet Dra	2.7990	5800.0	69	46523	No
293	GOM_NL__2PRFIN20110122_214347_000000383098_00388_46523_1111.N1	22-JAN-2011 21:43:47	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	46523	No
294	GOM_NL__2PRFIN20110122_214610_000000483098_00388_46523_1112.N1	22-JAN-2011 21:46:10	Bright	47.500	67	5Alp CrB	2.2210	11000.	95	46523	No
295	GOM_NL__2PRFIN20110122_215309_000000513098_00388_46523_1113.N1	22-JAN-2011 21:53:09	Bright	51.000	102	24Alp Ser	2.6000	4250.0	102	46523	No
296	GOM_NL__2PRFIN20110122_215621_000000433098_00388_46523_1114.N1	22-JAN-2011 21:56:21	Bright	43.000	98	13Zet Oph	2.5710	30000.	86	46523	No
297	GOM_NL__2PRFIN20110122_220050_000000533098_00388_46523_1115.N1	22-JAN-2011 22:00:50	Twilight	52.500	16	21Alp Sco	1.0200	3000.0	105	46523	No
298	GOM_NL__2PRFIN20110122_220620_000000403098_00388_46523_1116.N1	22-JAN-2011 22:06:20	Dark	40.000	131	Gam Lup	2.8000	26000.	80	46523	No
299	GOM_NL__2PRFIN20110122_220819_000000433098_00388_46523_1117.N1	22-JAN-2011 22:08:19	Dark	42.500	109	Bet Lup	2.6770	26000.	85	46523	No
300	GOM_NL__2PRFIN20110122_221018_000000533098_00389_46524_1106.N1	22-JAN-2011 22:10:18	Dark	52.500	54	5The Cen	2.0550	4500.0	105	46524	No
301	GOM_NL__2PRFIN20110122_221301_000000433098_00389_46524_1107.N1	22-JAN-2011 22:13:01	Dark	42.500	10	Bet Cen	0.61000	28000.	85	46524	No
302	GOM_NL__2PRFIN20110122_221628_000000423098_00389_46524_1108.N1	22-JAN-2011 22:16:28	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	46524	No
303	GOM_NL__2PRFIN20110122_222157_000000503098_00389_46524_1109.N1	22-JAN-2011 22:21:57	Dark	50.000	113	Mu Vel	2.6920	5000.0	100	46524	No
304	GOM_NL__2PRFIN20110122_222335_000000433098_00389_46524_1110.N1	22-JAN-2011 22:23:35	Dark	42.500	91	Kap Vel	2.4900	26000.	85	46524	No
305	GOM_NL__2PRFIN20110122_222654_000000553098_00389_46524_1111.N1	22-JAN-2011 22:26:54	Dark	54.500	65	Lam Vel	2.2040	4400.0	109	46524	No
306	GOM_NL__2PRFIN20110122_222916_000000403098_00389_46524_1112.N1	22-JAN-2011 22:29:16	Straylight	39.500	70	Zet Pup	2.2460	39000.	79	46524	No
307	GOM_NL__2PRFIN20110122_223346_000000443098_00389_46524_1113.N1	22-JAN-2011 22:33:46	Straylight	43.500	132	15Rho Pup	2.8030	6900.0	87	46524	No
308	GOM_NL__2PRFIN20110122_224258_000000573098_00389_46524_1114.N1	22-JAN-2011 22:42:58	Twilight	57.000	8	10Alp CMi	0.40000	6500.0	114	46524	No
309	GOM_NL__2PRFIN20110122_224836_000000403098_00389_46524_1115.N1	22-JAN-2011 22:48:36	Bright	39.500	170	27Eps Gem	3.0000	9700.0	79	46524	No
310	GOM_NL__2PRFIN20110122_225002_000000443098_00389_46524_1116.N1	22-JAN-2011 22:50:02	Bright	44.000	17	78Bet Gem	1.1610	4500.0	88	46524	No
311	GOM_NL__2PRFIN20110122_230549_000000483098_00389_46524_1117.N1	22-JAN-2011 23:05:49	Bright	47.500	36	50Alp UMa	1.8000	6300.0	95	46524	No
312	GOM_NL__2PRFIN20110122_231017_000000363098_00389_46524_1118.N1	22-JAN-2011 23:10:17	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	46524	No
313	GOM_NL__2PRFIN20110122_231448_000000393098_00389_46524_1119.N1	22-JAN-2011 23:14:48	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	46524	No
314	GOM_NL__2PRFIN20110122_231738_000000373098_00389_46524_1120.N1	22-JAN-2011 23:17:38	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	46524	No
315	GOM_NL__2PRFIN20110122_232401_000000433098_00389_46524_1121.N1	22-JAN-2011 23:24:01	Bright	42.500	133	40Zet Her	2.8070	6000.0	85	46524	No
316	GOM_NL__2PRFIN20110122_232625_000000713098_00389_46524_1122.N1	22-JAN-2011 23:26:25	Bright	71.000	67	5Alp CrB	2.2210	11000.	142	46524	No
317	GOM_NL__2PRFIN20110122_233323_000000553098_00389_46524_1123.N1	22-JAN-2011 23:33:23	Bright	55.000	102	24Alp Ser	2.6000	4250.0	110	46524	No
318	GOM_NL__2PRFIN20110122_233636_000000453098_00389_46524_1124.N1	22-JAN-2011 23:36:36	Bright	45.000	98	13Zet Oph	2.5710	30000.	90	46524	No
319	GOM_NL__2PRFIN20110122_234105_000000563098_00389_46524_1125.N1	22-JAN-2011 23:41:05	Twilight	56.000	16	21Alp Sco	1.0200	3000.0	112	46524	No
320	GOM_NL__2PRFIN20110122_234635_000000413098_00389_46524_1126.N1	22-JAN-2011 23:46:35	Dark	41.000	131	Gam Lup	2.8000	26000.	82	46524	No
321	GOM_NL__2PRFIN20110122_234833_000000433098_00389_46524_1127.N1	22-JAN-2011 23:48:33	Dark	42.500	109	Bet Lup	2.6770	26000.	85	46524	No
322	GOM_NL__2PRFIN20110122_235034_000000643098_00390_46525_1117.N1	22-JAN-2011 23:50:34	Dark	64.000	54	5The Cen	2.0550	4500.0	128	46525	No
323	GOM_NL__2PRFIN20110122_235316_000000513098_00390_46525_1118.N1	22-JAN-2011 23:53:16	Dark	51.000	10	Bet Cen	0.61000	28000.	102	46525	No
324	GOM_NL__2PRFIN20110122_235642_000000423098_00390_46525_1119.N1	22-JAN-2011 23:56:42	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	46525	No

3. Quality information per product

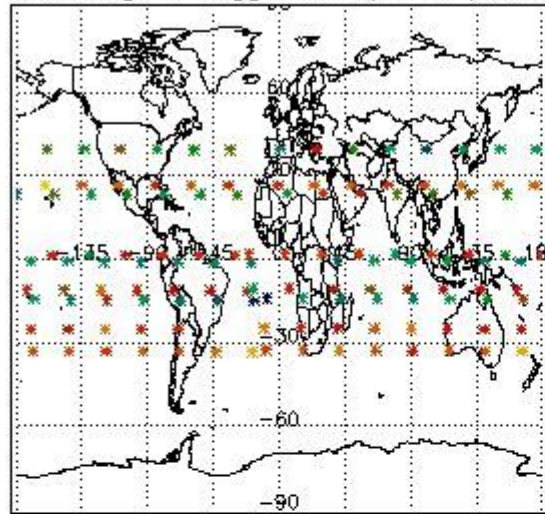
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

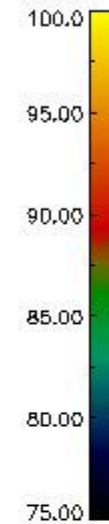
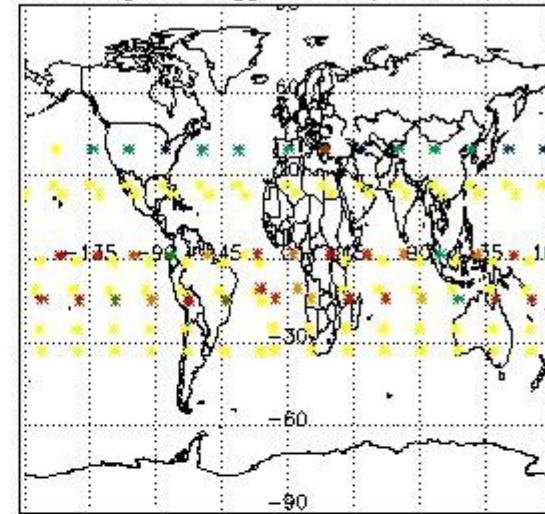


3.2 Plot quality information per product (world map)

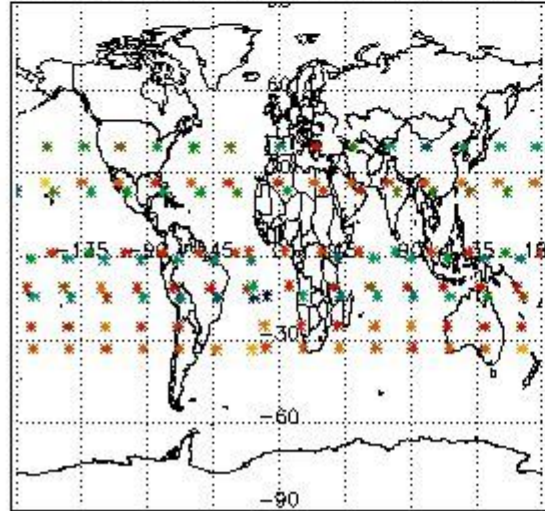
Percentage of flagged data per O3 profile



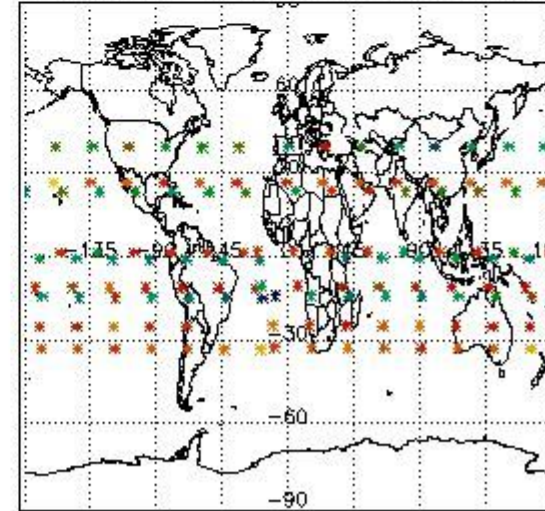
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

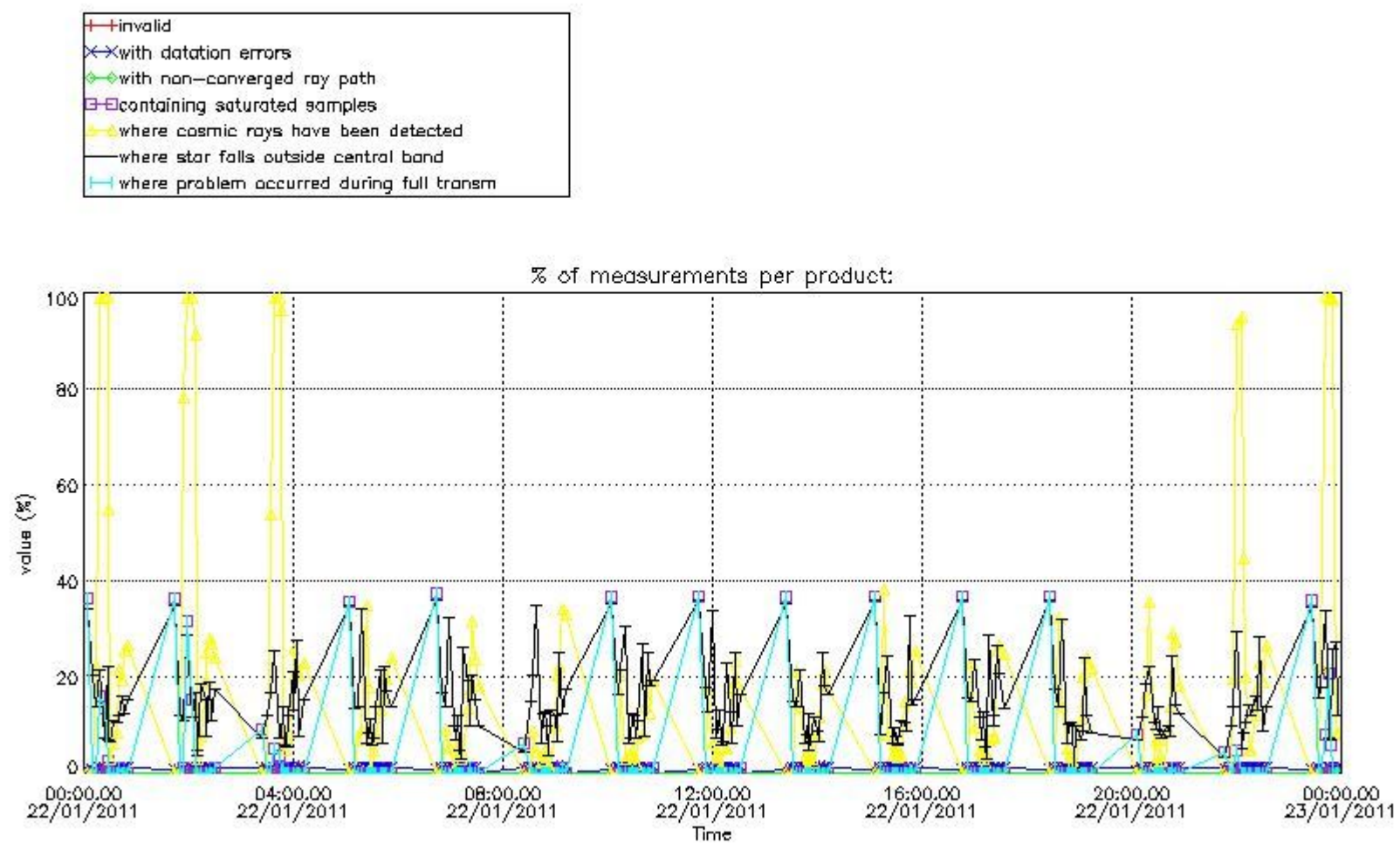


4. Level 1 quality information per product

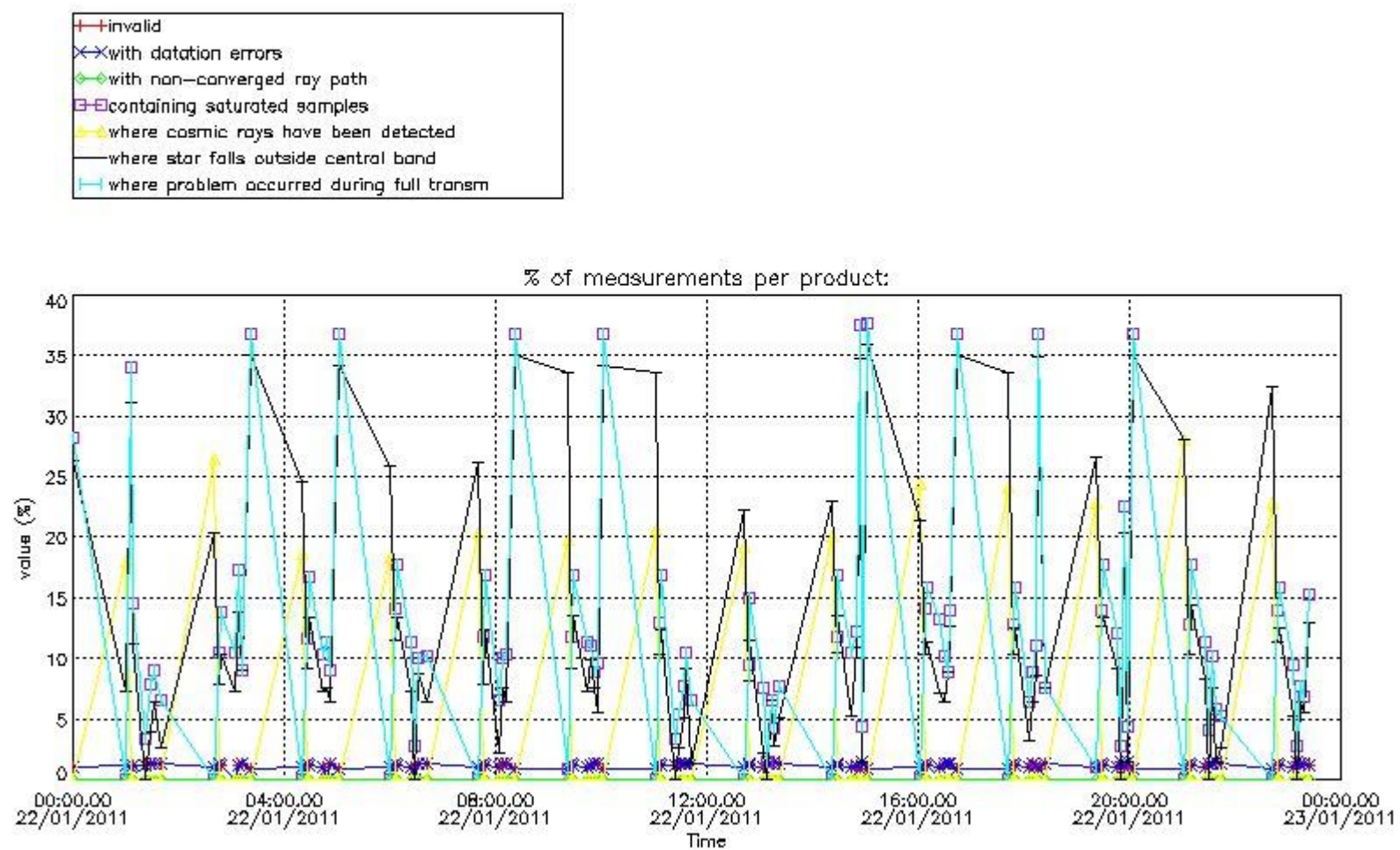
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



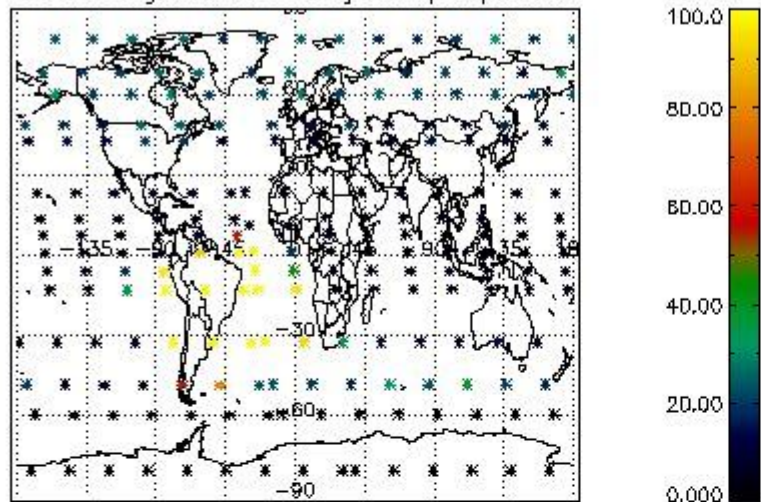
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



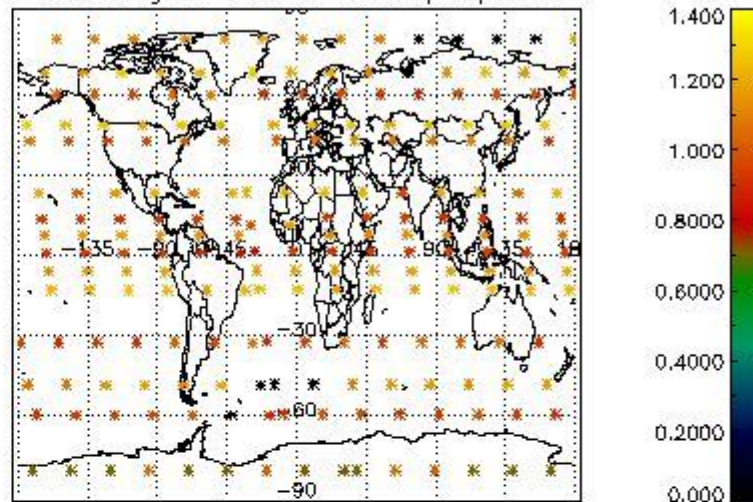
4.2 Plot quality information per product coming from level 1b processing (world map)

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

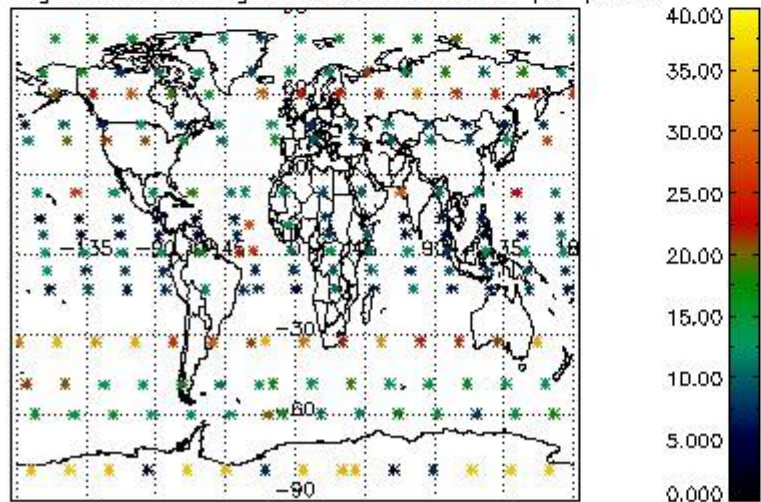
Percentage of cosmic ray hits per profile



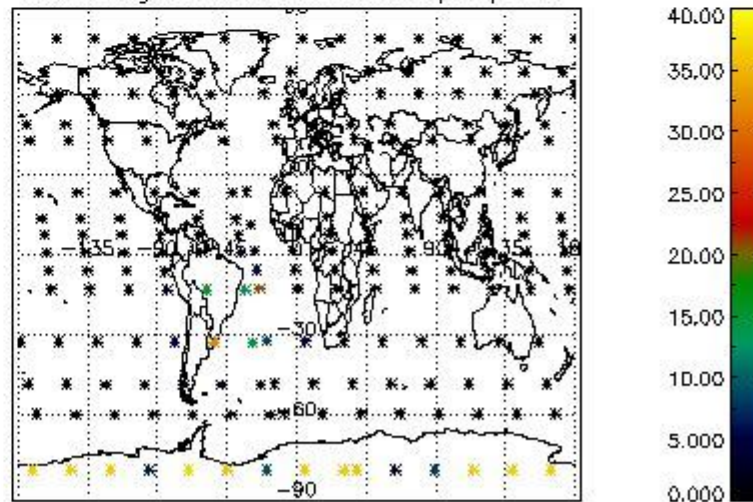
Percentage of datation errors per profile



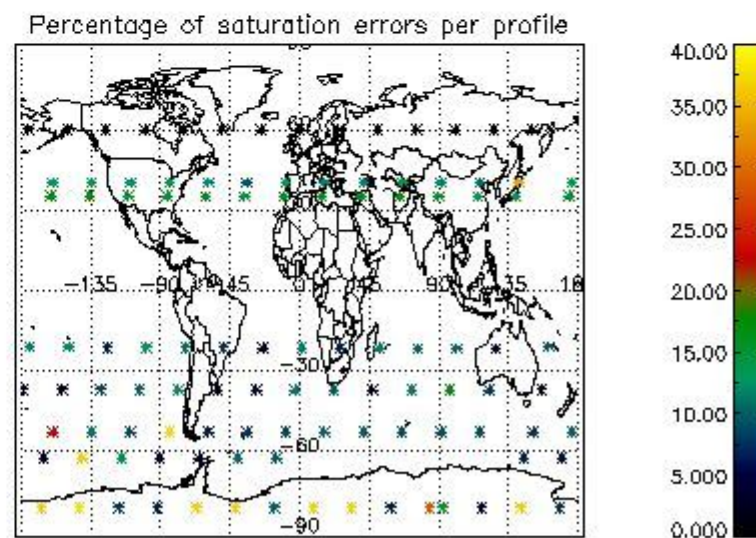
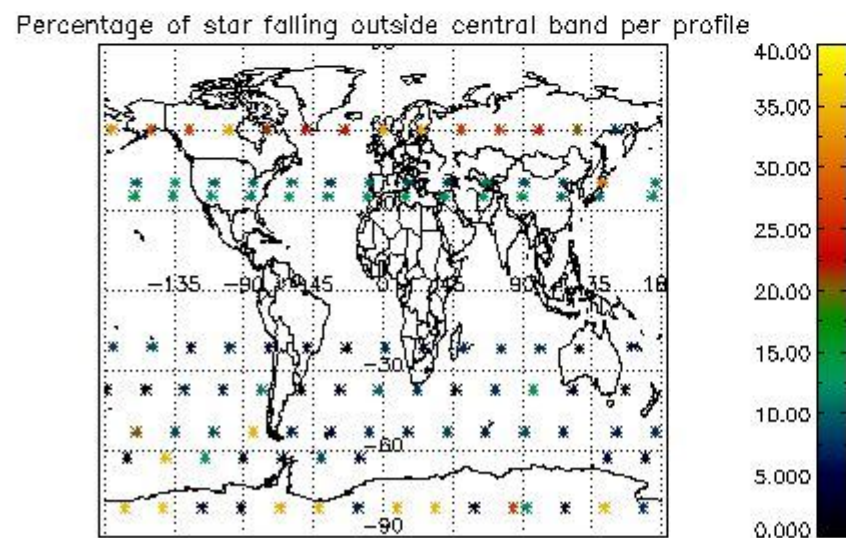
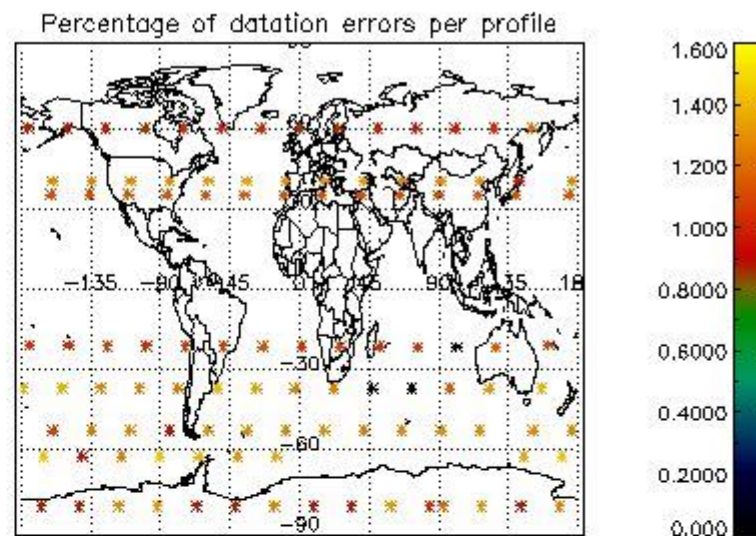
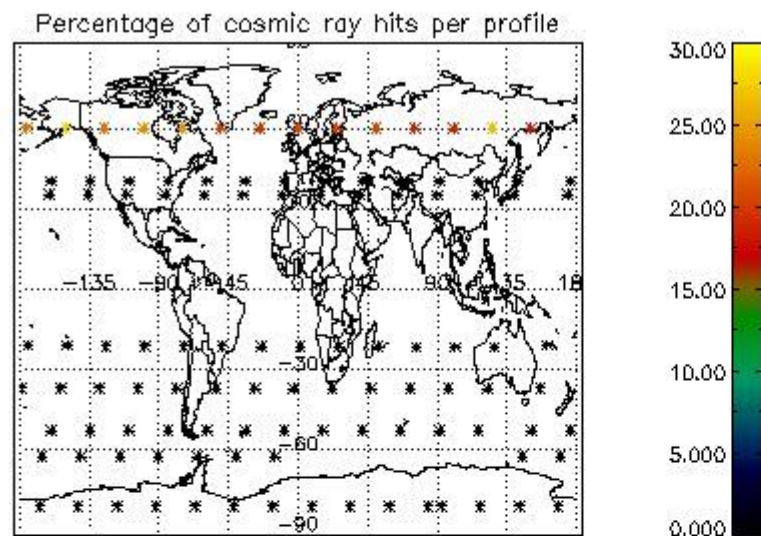
Percentage of star falling outside central band per profile



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

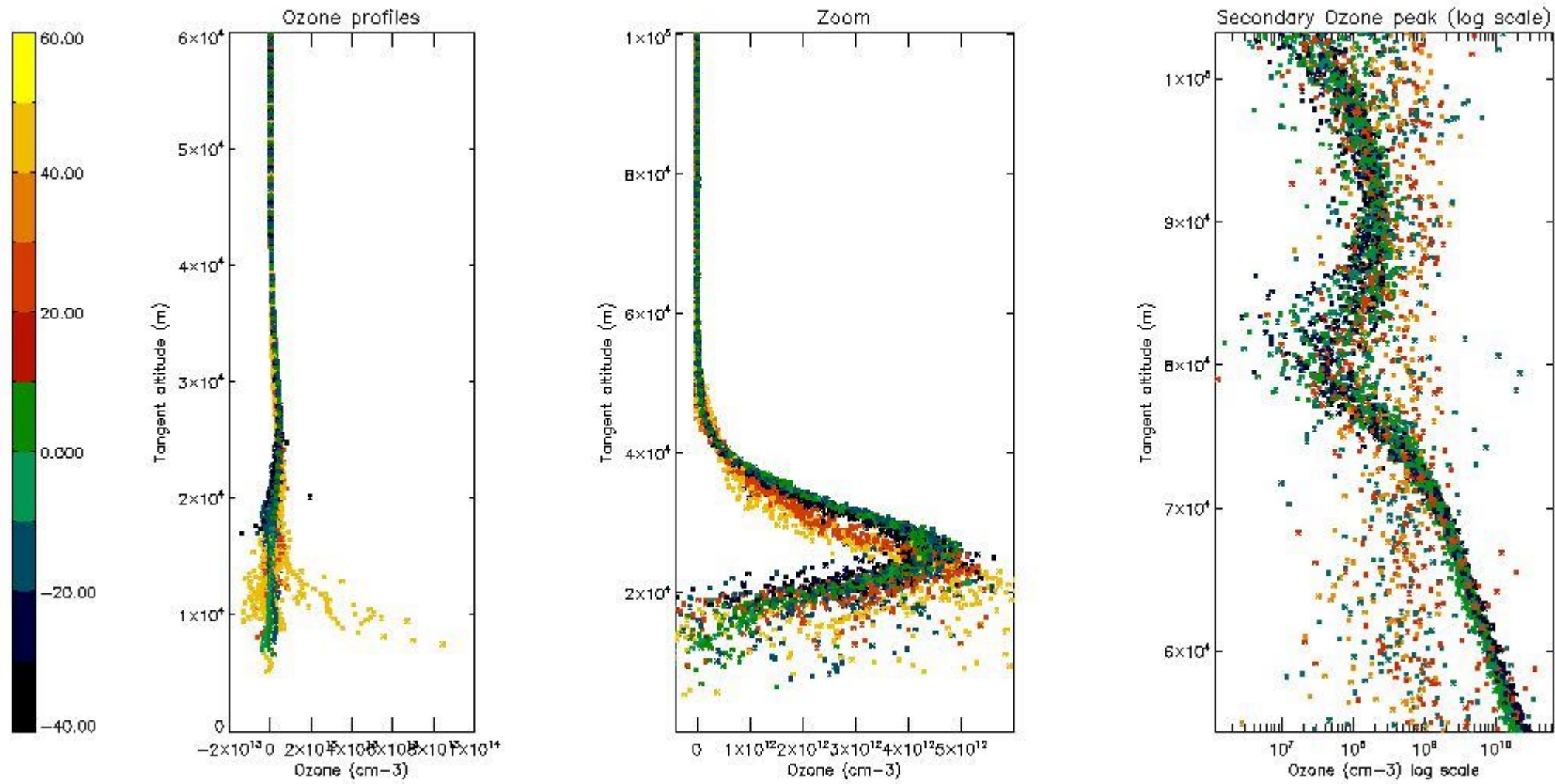
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	40
STD < 20	18

STD < 10	14
STD < 5	8

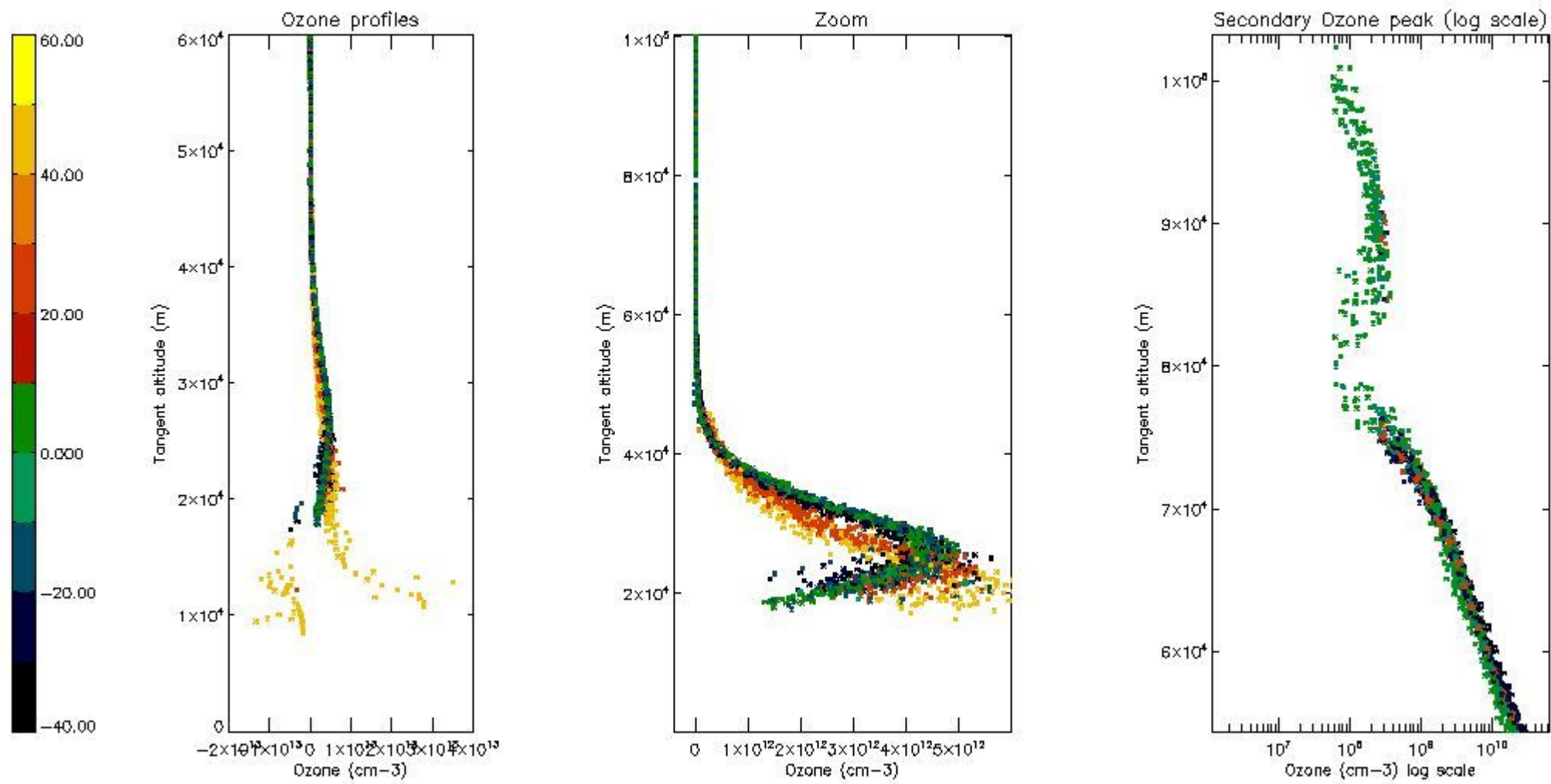
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



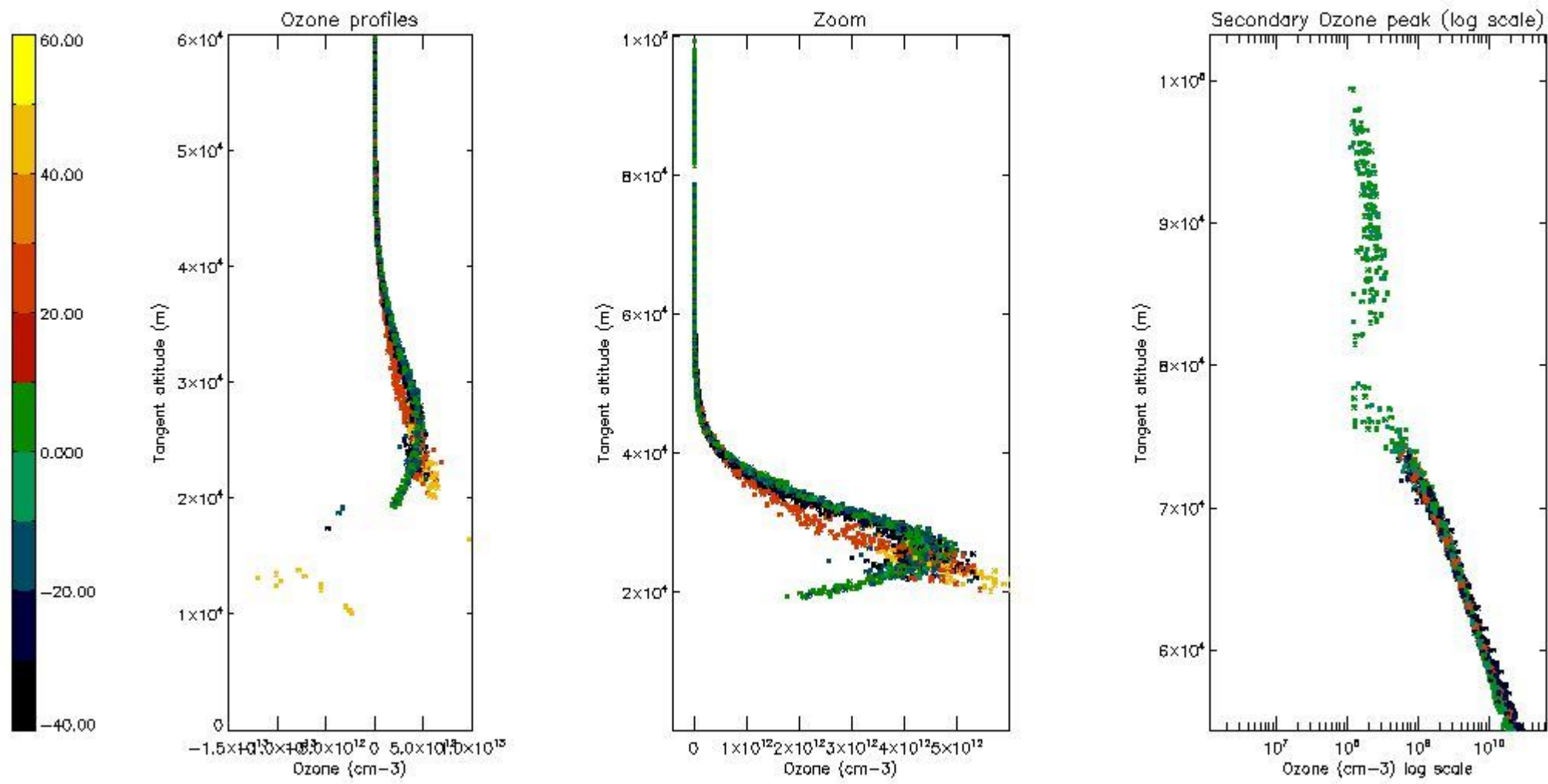
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



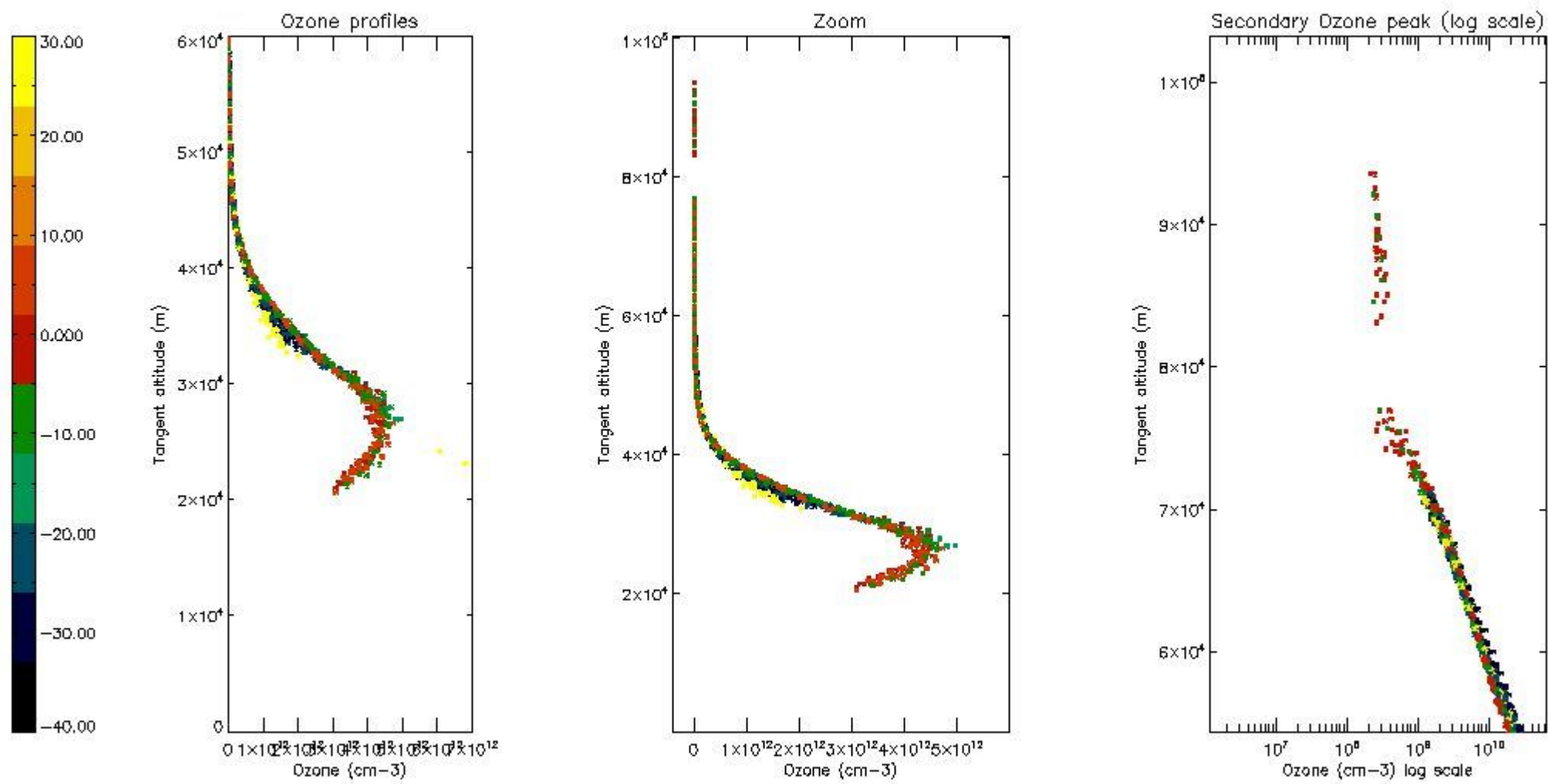
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



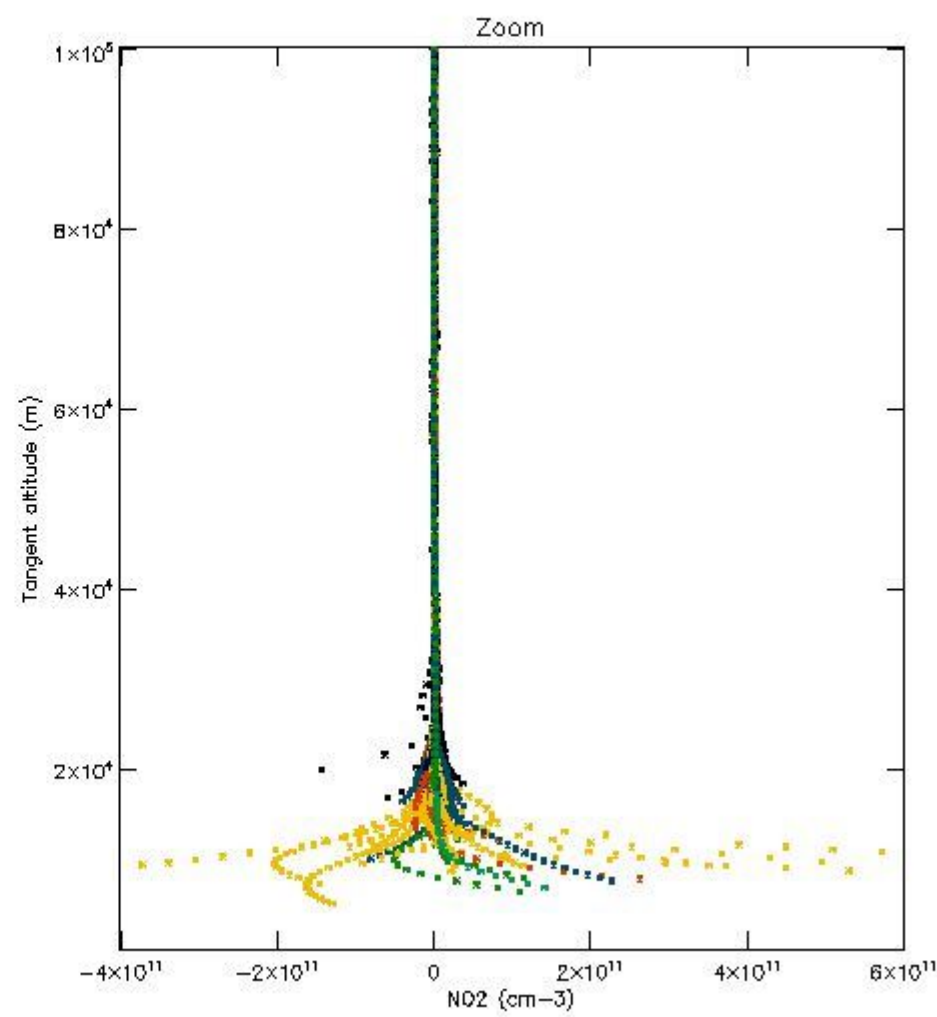
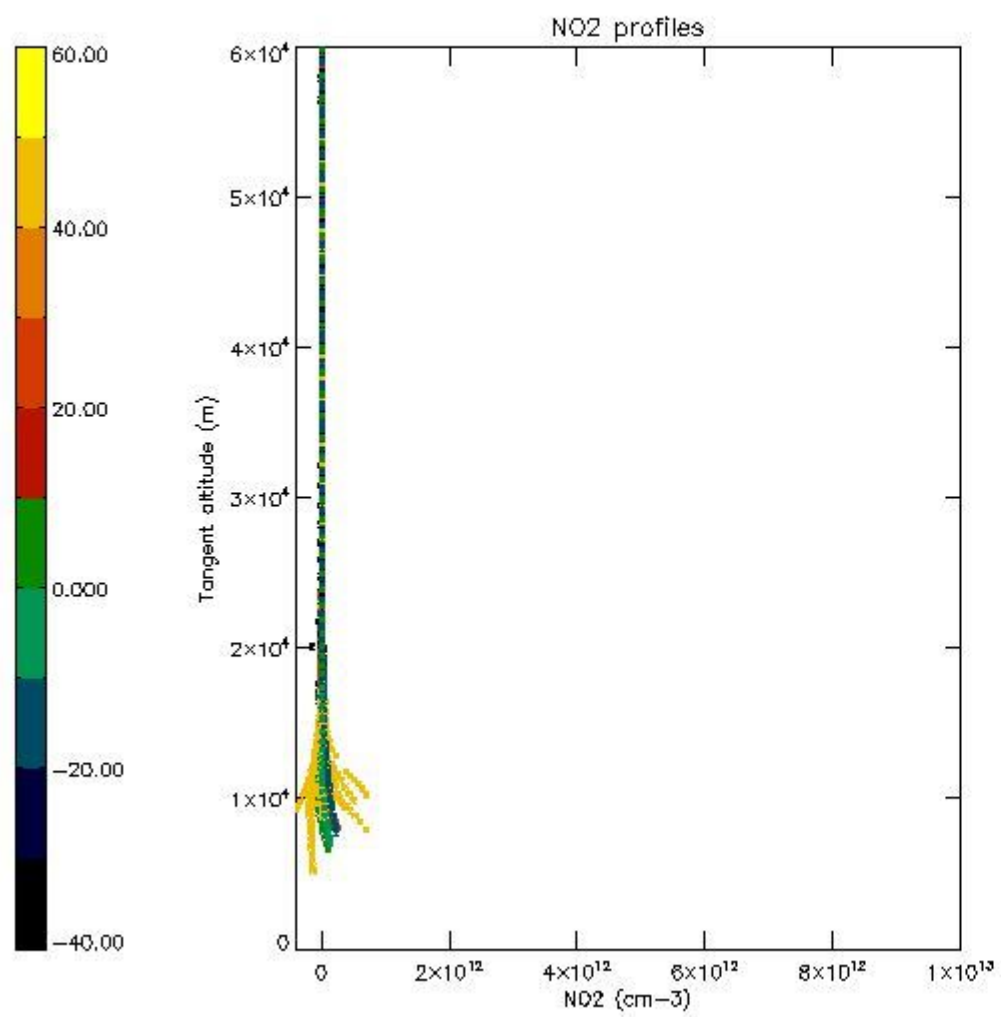
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



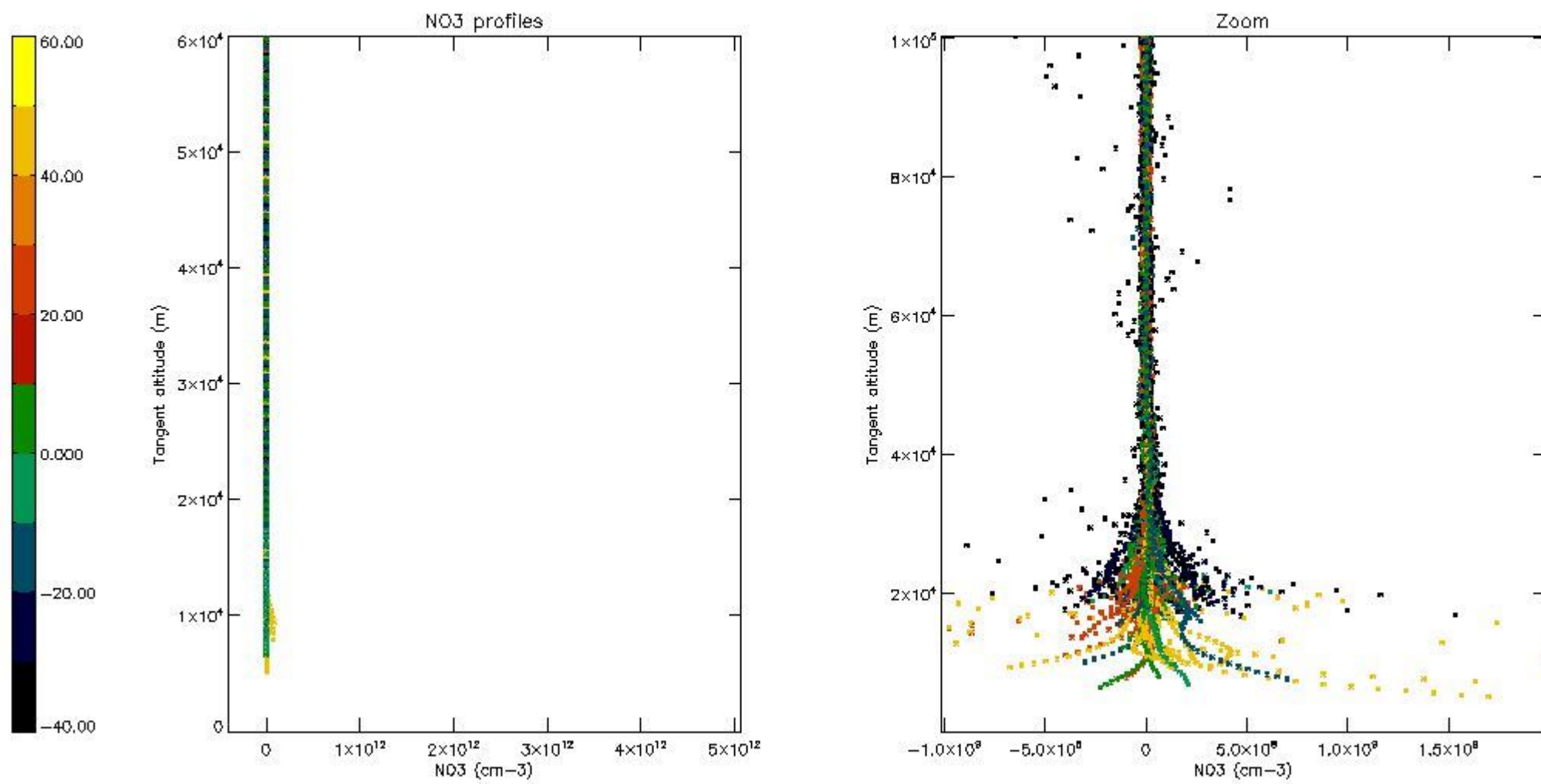
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



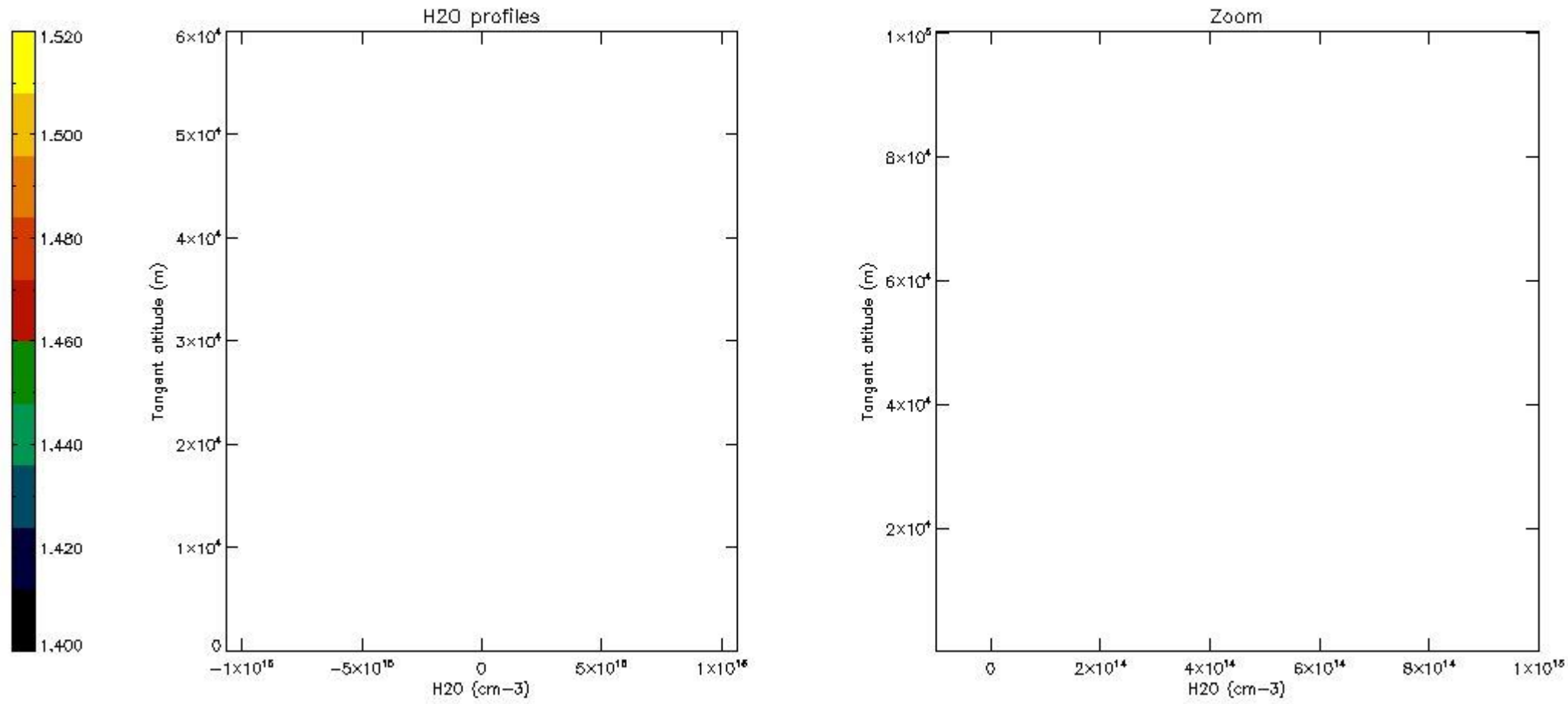
5.7 Plot NO3 profiles for all STD (dark without errors)

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-JAN-2011 00:00:43
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-JAN-2011 00:00:43
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-JAN-2011 00:00:43

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	24APR2013 09:30:14
Data source version	GOMOS/6.01
Start time of products	22-01-2011 (22JAN2011 00:00:00)
Stop time of products	23-01-2011 (23JAN2011 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	324
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

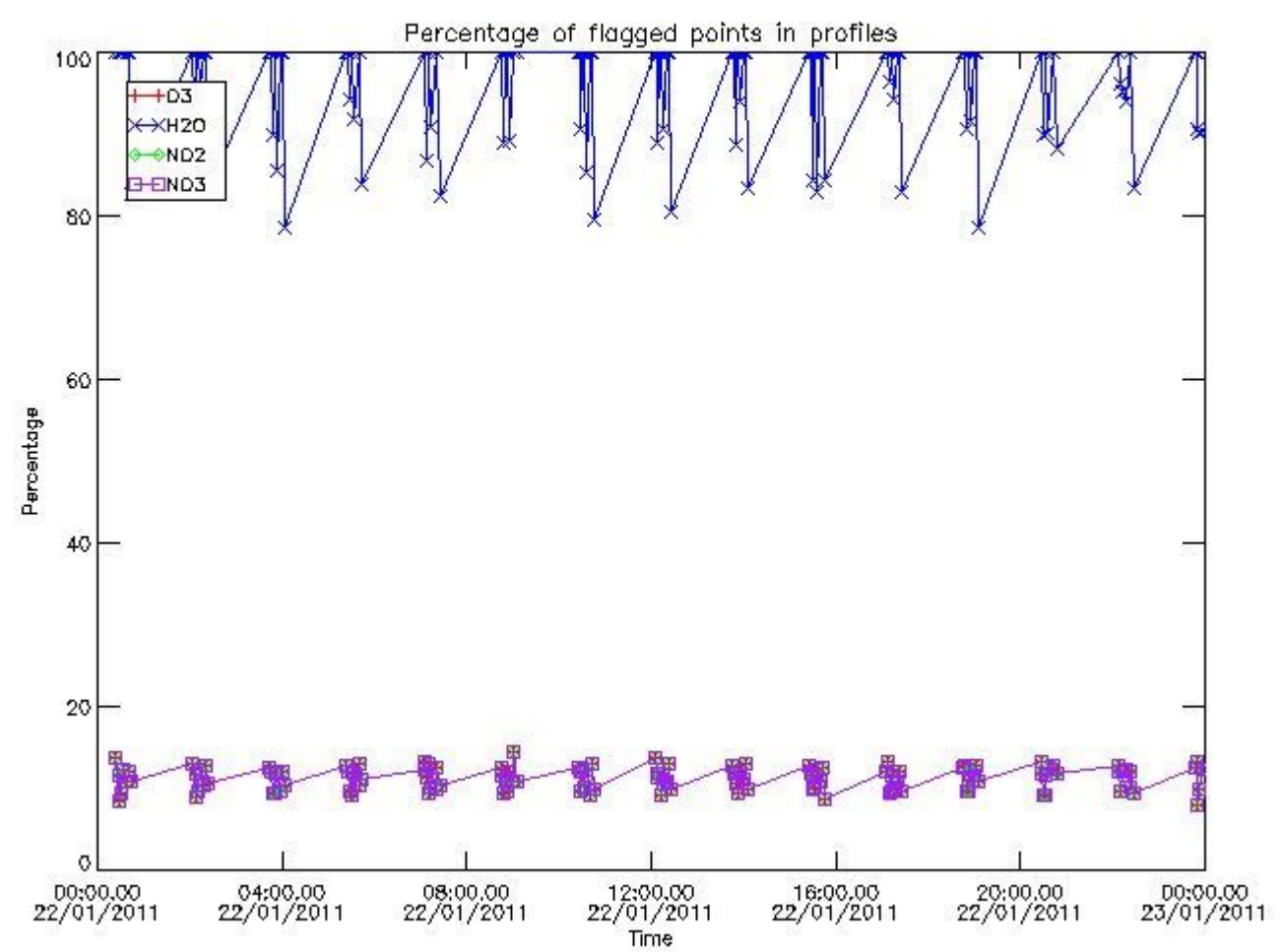
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20110122_000043_000000503098_00375_46510_0792.N1	22-JAN-2011 00:00:43	Bright	49.500	133	40Zet Her	2.8070	6000.0	99	46510	No
2	GOM_NL__2PRFIN20110122_000305_000000703098_00375_46510_0793.N1	22-JAN-2011 00:03:05	Bright	70.000	67	5Alp CrB	2.2210	11000.	140	46510	No
3	GOM_NL__2PRFIN20110122_000958_000000573098_00375_46510_0794.N1	22-JAN-2011 00:09:58	Bright	56.500	102	24Alp Ser	2.6000	4250.0	113	46510	No
4	GOM_NL__2PRFIN20110122_001313_000000433098_00375_46510_0795.N1	22-JAN-2011 00:13:13	Bright	43.000	98	13Zet Oph	2.5710	30000.	86	46510	No
5	GOM_NL__2PRFIN20110122_001741_000000473098_00375_46510_0796.N1	22-JAN-2011 00:17:41	Twilight	47.000	16	21Alp Sco	1.0200	3000.0	94	46510	No
6	GOM_NL__2PRFIN20110122_002310_000000413098_00375_46510_0797.N1	22-JAN-2011 00:23:10	Dark	40.500	131	Gam Lup	2.8000	26000.	81	46510	No
7	GOM_NL__2PRFIN20110122_002701_000000613098_00376_46511_0787.N1	22-JAN-2011 00:27:01	Dark	60.500	54	5The Cen	2.0550	4500.0	121	46511	No
8	GOM_NL__2PRFIN20110122_002851_000000453098_00376_46511_0788.N1	22-JAN-2011 00:28:51	Dark	44.500	95	Zet Cen	2.5450	26000.	89	46511	No
9	GOM_NL__2PRFIN20110122_003032_000000553098_00376_46511_0789.N1	22-JAN-2011 00:30:32	Dark	54.500	123	lot Cen	2.7500	10200.	109	46511	No
10	GOM_NL__2PRFIN20110122_003318_000000423098_00376_46511_0790.N1	22-JAN-2011 00:33:18	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	46511	No
11	GOM_NL__2PRFIN20110122_003846_000000473098_00376_46511_0791.N1	22-JAN-2011 00:38:46	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	46511	No
12	GOM_NL__2PRFIN20110122_004027_000000423098_00376_46511_0792.N1	22-JAN-2011 00:40:27	Dark	42.000	91	Kap Vel	2.4900	26000.	84	46511	No
13	GOM_NL__2PRFIN20110122_004345_000000473098_00376_46511_0793.N1	22-JAN-2011 00:43:45	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	46511	No
14	GOM_NL__2PRFIN20110122_004610_000000413098_00376_46511_0794.N1	22-JAN-2011 00:46:10	Straylight	41.000	70	Zet Pup	2.2460	39000.	82	46511	No
15	GOM_NL__2PRFIN20110122_005040_000000463098_00376_46511_0795.N1	22-JAN-2011 00:50:40	Straylight	45.500	132	15Rho Pup	2.8030	6900.0	91	46511	No
16	GOM_NL__2PRFIN20110122_005957_000000423098_00376_46511_0796.N1	22-JAN-2011 00:59:57	Tw_and_stray	41.500	8	10Alp CMi	0.40000	6500.0	83	46511	No
17	GOM_NL__2PRFIN20110122_010534_000000523098_00376_46511_0797.N1	22-JAN-2011 01:05:34	Bright	51.500	170	27Eps Gem	3.0000	9700.0	103	46511	No
18	GOM_NL__2PRFIN20110122_010704_000000453098_00376_46511_0798.N1	22-JAN-2011 01:07:04	Bright	44.500	17	78Bet Gem	1.1610	4500.0	89	46511	No
19	GOM_NL__2PRFIN20110122_012256_000000443098_00376_46511_0799.N1	22-JAN-2011 01:22:56	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	46511	No
20	GOM_NL__2PRFIN20110122_012718_000000383098_00376_46511_0800.N1	22-JAN-2011 01:27:18	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	46511	No
21	GOM_NL__2PRFIN20110122_013147_000000393098_00376_46511_0801.N1	22-JAN-2011 01:31:47	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	46511	No
22	GOM_NL__2PRFIN20110122_014057_000000383098_00376_46511_0802.N1	22-JAN-2011 01:40:57	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	46511	No
23	GOM_NL__2PRFIN20110122_014319_000000703098_00376_46511_0803.N1	22-JAN-2011 01:43:19	Bright	70.000	67	5Alp CrB	2.2210	11000.	140	46511	No
24	GOM_NL__2PRFIN20110122_015013_000000513098_00376_46511_0804.N1	22-JAN-2011 01:50:13	Bright	50.500	102	24Alp Ser	2.6000	4250.0	101	46511	No
25	GOM_NL__2PRFIN20110122_015327_000000423098_00376_46511_0805.N1	22-JAN-2011 01:53:27	Bright	41.500	98	13Zet Oph	2.5710	30000.	83	46511	No
26	GOM_NL__2PRFIN20110122_015756_000000523098_00376_46511_0806.N1	22-JAN-2011 01:57:56	Twilight	52.000	16	21Alp Sco	1.0200	3000.0	104	46511	No
27	GOM_NL__2PRFIN20110122_020324_000000433098_00376_46511_0807.N1	22-JAN-2011 02:03:24	Dark	43.000	131	Gam Lup	2.8000	26000.	86	46511	No
28	GOM_NL__2PRFIN20110122_020716_000000573098_00377_46512_0819.N1	22-JAN-2011 02:07:16	Dark	56.500	54	5The Cen	2.0550	4500.0	113	46512	No
29	GOM_NL__2PRFIN20110122_020906_000000443098_00377_46512_0820.N1	22-JAN-2011 02:09:06	Dark	43.500	95	Zet Cen	2.5450	26000.	87	46512	No
30	GOM_NL__2PRFIN20110122_021047_000000543098_00377_46512_0821.N1	22-JAN-2011 02:10:47	Dark	53.500	123	lot Cen	2.7500	10200.	107	46512	No
31	GOM_NL__2PRFIN20110122_021333_000000463098_00377_46512_0822.N1	22-JAN-2011 02:13:33	Dark	46.000	12	Alp1Cru	0.77500	30000.	92	46512	No
32	GOM_NL__2PRFIN20110122_021901_000000503098_00377_46512_0823.N1	22-JAN-2011 02:19:01	Dark	49.500	113	Mu Vel	2.6920	5000.0	99	46512	No
33	GOM_NL__2PRFIN20110122_022041_000000403098_00377_46512_0824.N1	22-JAN-2011 02:20:41	Dark	40.000	91	Kap Vel	2.4900	26000.	80	46512	No
34	GOM_NL__2PRFIN20110122_022400_000000483098_00377_46512_0825.N1	22-JAN-2011 02:24:00	Dark	48.000	65	Lam Vel	2.2040	4400.0	96	46512	No
35	GOM_NL__2PRFIN20110122_022624_000000413098_00377_46512_0826.N1	22-JAN-2011 02:26:24	Straylight	41.000	70	Zet Pup	2.2460	39000.	82	46512	No
36	GOM_NL__2PRFIN20110122_023055_000000463098_00377_46512_0827.N1	22-JAN-2011 02:30:55	Straylight	46.000	132	15Rho Pup	2.8030	6900.0	92	46512	No
37	GOM_NL__2PRFIN20110122_024011_000000493098_00377_46512_0828.N1	22-JAN-2011 02:40:11	Tw_and_stray	49.000	8	10Alp CMi	0.40000	6500.0	98	46512	No
38	GOM_NL__2PRFIN20110122_024548_000000383098_00377_46512_0829.N1	22-JAN-2011 02:45:48	Bright	38.000	170	27Eps Gem	3.0000	9700.0	76	46512	No
39	GOM_NL__2PRFIN20110122_024717_000000443098_00377_46512_0830.N1	22-JAN-2011 02:47:17	Bright	43.500	17	78Bet Gem	1.1610	4500.0	87	46512	No
40	GOM_NL__2PRFIN20110122_030309_000000483098_00377_46512_0831.N1	22-JAN-2011 03:03:09	Bright	48.000	36	50Alp UMa	1.8000	6300.0	96	46512	No
41	GOM_NL__2PRFIN20110122_030731_000000443098_00377_46512_0832.N1	22-JAN-2011 03:07:31	Bright	43.500	60	7Bet UMi	2.0810	3950.0	87	46512	No
42	GOM_NL__2PRFIN20110122_031201_000000393098_00377_46512_0833.N1	22-JAN-2011 03:12:01	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	46512	No

279	GOM_NL_2PRFIN20110122_203336_000000563098_00388_46523_1097.N1	22-JAN-2011 20:33:36	Dark	55.500	123	lot Cen	2.7500	10200.	111	46523	No
280	GOM_NL_2PRFIN20110122_203614_000000413098_00388_46523_1098.N1	22-JAN-2011 20:36:14	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	46523	No
281	GOM_NL_2PRFIN20110122_204143_000000463098_00388_46523_1099.N1	22-JAN-2011 20:41:43	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	46523	No
282	GOM_NL_2PRFIN20110122_204320_000000403098_00388_46523_1100.N1	22-JAN-2011 20:43:20	Dark	40.000	91	Kap Vel	2.4900	26000.	80	46523	No
283	GOM_NL_2PRFIN20110122_204639_000000523098_00388_46523_1101.N1	22-JAN-2011 20:46:39	Dark	51.500	65	Lam Vel	2.2040	4400.0	103	46523	No
284	GOM_NL_2PRFIN20110122_204902_000000423098_00388_46523_1102.N1	22-JAN-2011 20:49:02	Straylight	42.000	70	Zet Pup	2.2460	39000.	84	46523	No
285	GOM_NL_2PRFIN20110122_205331_000000443098_00388_46523_1103.N1	22-JAN-2011 20:53:31	Straylight	44.000	132	15Rho Pup	2.8030	6900.0	88	46523	No
286	GOM_NL_2PRFIN20110122_210245_000000543098_00388_46523_1104.N1	22-JAN-2011 21:02:45	Twilight	53.500	8	10Alp CMi	0.40000	6500.0	107	46523	No
287	GOM_NL_2PRFIN20110122_210822_000000393098_00388_46523_1105.N1	22-JAN-2011 21:08:22	Bright	39.000	170	27Eps Gem	3.0000	9700.0	78	46523	No
288	GOM_NL_2PRFIN20110122_210948_000000453098_00388_46523_1106.N1	22-JAN-2011 21:09:48	Bright	45.000	17	78Bet Gem	1.1610	4500.0	90	46523	No
289	GOM_NL_2PRFIN20110122_212535_000000493098_00388_46523_1107.N1	22-JAN-2011 21:25:35	Bright	48.500	36	50Alp UMa	1.8000	6300.0	97	46523	No
290	GOM_NL_2PRFIN20110122_213004_000000373098_00388_46523_1108.N1	22-JAN-2011 21:30:04	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	46523	No
291	GOM_NL_2PRFIN20110122_213434_000000403098_00388_46523_1109.N1	22-JAN-2011 21:34:34	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	46523	No
292	GOM_NL_2PRFIN20110122_213724_000000353098_00388_46523_1110.N1	22-JAN-2011 21:37:24	Bright	34.500	130	23Bet Dra	2.7990	5800.0	69	46523	No
293	GOM_NL_2PRFIN20110122_214347_000000383098_00388_46523_1111.N1	22-JAN-2011 21:43:47	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	46523	No
294	GOM_NL_2PRFIN20110122_214610_000000483098_00388_46523_1112.N1	22-JAN-2011 21:46:10	Bright	47.500	67	5Alp CrB	2.2210	11000.	95	46523	No
295	GOM_NL_2PRFIN20110122_215309_000000513098_00388_46523_1113.N1	22-JAN-2011 21:53:09	Bright	51.000	102	24Alp Ser	2.6000	4250.0	102	46523	No
296	GOM_NL_2PRFIN20110122_215621_000000433098_00388_46523_1114.N1	22-JAN-2011 21:56:21	Bright	43.000	98	13Zet Oph	2.5710	30000.	86	46523	No
297	GOM_NL_2PRFIN20110122_220050_000000533098_00388_46523_1115.N1	22-JAN-2011 22:00:50	Twilight	52.500	16	21Alp Sco	1.0200	3000.0	105	46523	No
298	GOM_NL_2PRFIN20110122_220620_000000403098_00388_46523_1116.N1	22-JAN-2011 22:06:20	Dark	40.000	131	Gam Lup	2.8000	26000.	80	46523	No
299	GOM_NL_2PRFIN20110122_220819_000000433098_00388_46523_1117.N1	22-JAN-2011 22:08:19	Dark	42.500	109	Bet Lup	2.6770	26000.	85	46523	No
300	GOM_NL_2PRFIN20110122_221018_000000533098_00389_46524_1106.N1	22-JAN-2011 22:10:18	Dark	52.500	54	5The Cen	2.0550	4500.0	105	46524	No
301	GOM_NL_2PRFIN20110122_221301_000000433098_00389_46524_1107.N1	22-JAN-2011 22:13:01	Dark	42.500	10	Bet Cen	0.61000	28000.	85	46524	No
302	GOM_NL_2PRFIN20110122_221628_000000423098_00389_46524_1108.N1	22-JAN-2011 22:16:28	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	46524	No
303	GOM_NL_2PRFIN20110122_222157_000000503098_00389_46524_1109.N1	22-JAN-2011 22:21:57	Dark	50.000	113	Mu Vel	2.6920	5000.0	100	46524	No
304	GOM_NL_2PRFIN20110122_222335_000000433098_00389_46524_1110.N1	22-JAN-2011 22:23:35	Dark	42.500	91	Kap Vel	2.4900	26000.	85	46524	No
305	GOM_NL_2PRFIN20110122_222654_000000553098_00389_46524_1111.N1	22-JAN-2011 22:26:54	Dark	54.500	65	Lam Vel	2.2040	4400.0	109	46524	No
306	GOM_NL_2PRFIN20110122_222916_000000403098_00389_46524_1112.N1	22-JAN-2011 22:29:16	Straylight	39.500	70	Zet Pup	2.2460	39000.	79	46524	No
307	GOM_NL_2PRFIN20110122_223346_000000443098_00389_46524_1113.N1	22-JAN-2011 22:33:46	Straylight	43.500	132	15Rho Pup	2.8030	6900.0	87	46524	No
308	GOM_NL_2PRFIN20110122_224258_000000573098_00389_46524_1114.N1	22-JAN-2011 22:42:58	Twilight	57.000	8	10Alp CMi	0.40000	6500.0	114	46524	No
309	GOM_NL_2PRFIN20110122_224836_000000403098_00389_46524_1115.N1	22-JAN-2011 22:48:36	Bright	39.500	170	27Eps Gem	3.0000	9700.0	79	46524	No
310	GOM_NL_2PRFIN20110122_225002_000000443098_00389_46524_1116.N1	22-JAN-2011 22:50:02	Bright	44.000	17	78Bet Gem	1.1610	4500.0	88	46524	No
311	GOM_NL_2PRFIN20110122_230549_000000483098_00389_46524_1117.N1	22-JAN-2011 23:05:49	Bright	47.500	36	50Alp UMa	1.8000	6300.0	95	46524	No
312	GOM_NL_2PRFIN20110122_231017_000000363098_00389_46524_1118.N1	22-JAN-2011 23:10:17	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	46524	No
313	GOM_NL_2PRFIN20110122_231448_000000393098_00389_46524_1119.N1	22-JAN-2011 23:14:48	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	46524	No
314	GOM_NL_2PRFIN20110122_231738_000000373098_00389_46524_1120.N1	22-JAN-2011 23:17:38	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	46524	No
315	GOM_NL_2PRFIN20110122_232401_000000433098_00389_46524_1121.N1	22-JAN-2011 23:24:01	Bright	42.500	133	40Zet Her	2.8070	6000.0	85	46524	No
316	GOM_NL_2PRFIN20110122_232625_000000713098_00389_46524_1122.N1	22-JAN-2011 23:26:25	Bright	71.000	67	5Alp CrB	2.2210	11000.	142	46524	No
317	GOM_NL_2PRFIN20110122_233323_000000553098_00389_46524_1123.N1	22-JAN-2011 23:33:23	Bright	55.000	102	24Alp Ser	2.6000	4250.0	110	46524	No
318	GOM_NL_2PRFIN20110122_233636_000000453098_00389_46524_1124.N1	22-JAN-2011 23:36:36	Bright	45.000	98	13Zet Oph	2.5710	30000.	90	46524	No
319	GOM_NL_2PRFIN20110122_234105_000000563098_00389_46524_1125.N1	22-JAN-2011 23:41:05	Twilight	56.000	16	21Alp Sco	1.0200	3000.0	112	46524	No
320	GOM_NL_2PRFIN20110122_234635_000000413098_00389_46524_1126.N1	22-JAN-2011 23:46:35	Dark	41.000	131	Gam Lup	2.8000	26000.	82	46524	No
321	GOM_NL_2PRFIN20110122_234833_000000433098_00389_46524_1127.N1	22-JAN-2011 23:48:33	Dark	42.500	109	Bet Lup	2.6770	26000.	85	46524	No
322	GOM_NL_2PRFIN20110122_235034_000000643098_00390_46525_1117.N1	22-JAN-2011 23:50:34	Dark	64.000	54	5The Cen	2.0550	4500.0	128	46525	No
323	GOM_NL_2PRFIN20110122_235316_000000513098_00390_46525_1118.N1	22-JAN-2011 23:53:16	Dark	51.000	10	Bet Cen	0.61000	28000.	102	46525	No
324	GOM_NL_2PRFIN20110122_235642_000000423098_00390_46525_1119.N1	22-JAN-2011 23:56:42	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	46525	No

3. Quality information per product

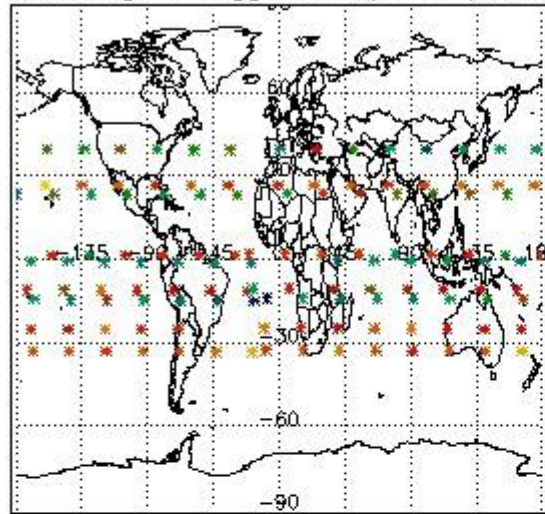
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

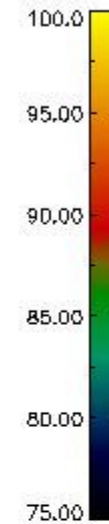
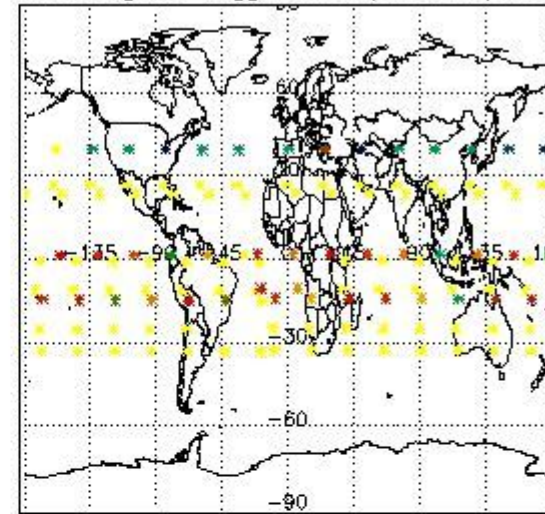


3.2 Plot quality information per product (world map)

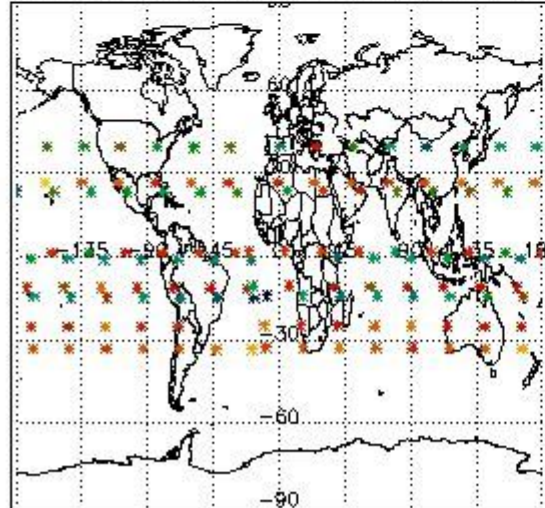
Percentage of flagged data per O3 profile



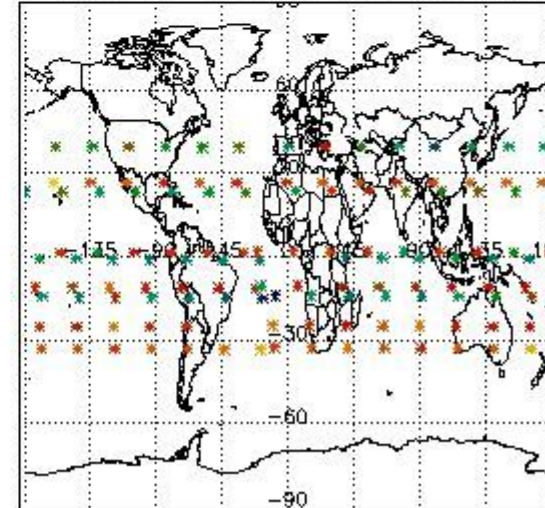
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

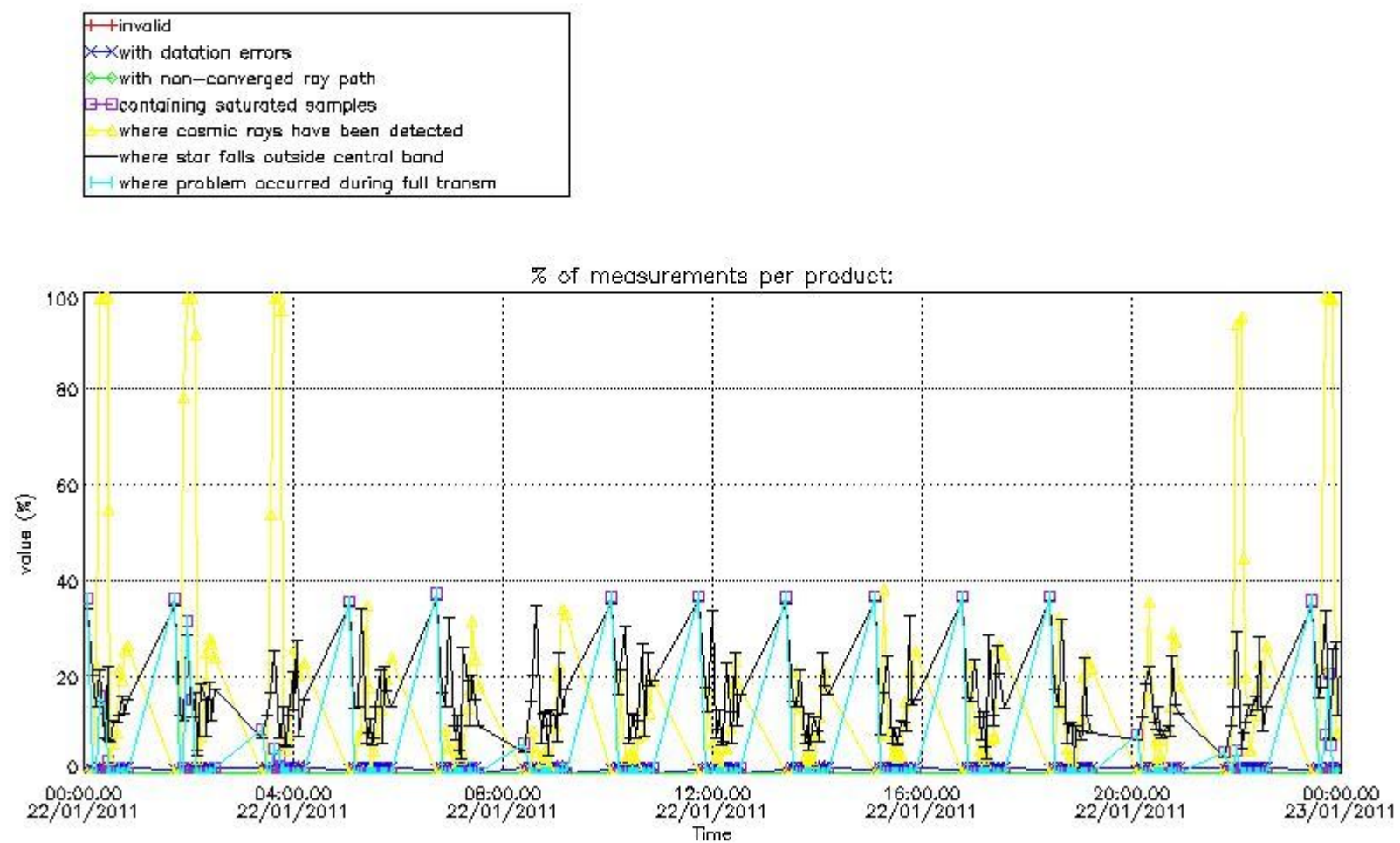


4. Level 1 quality information per product

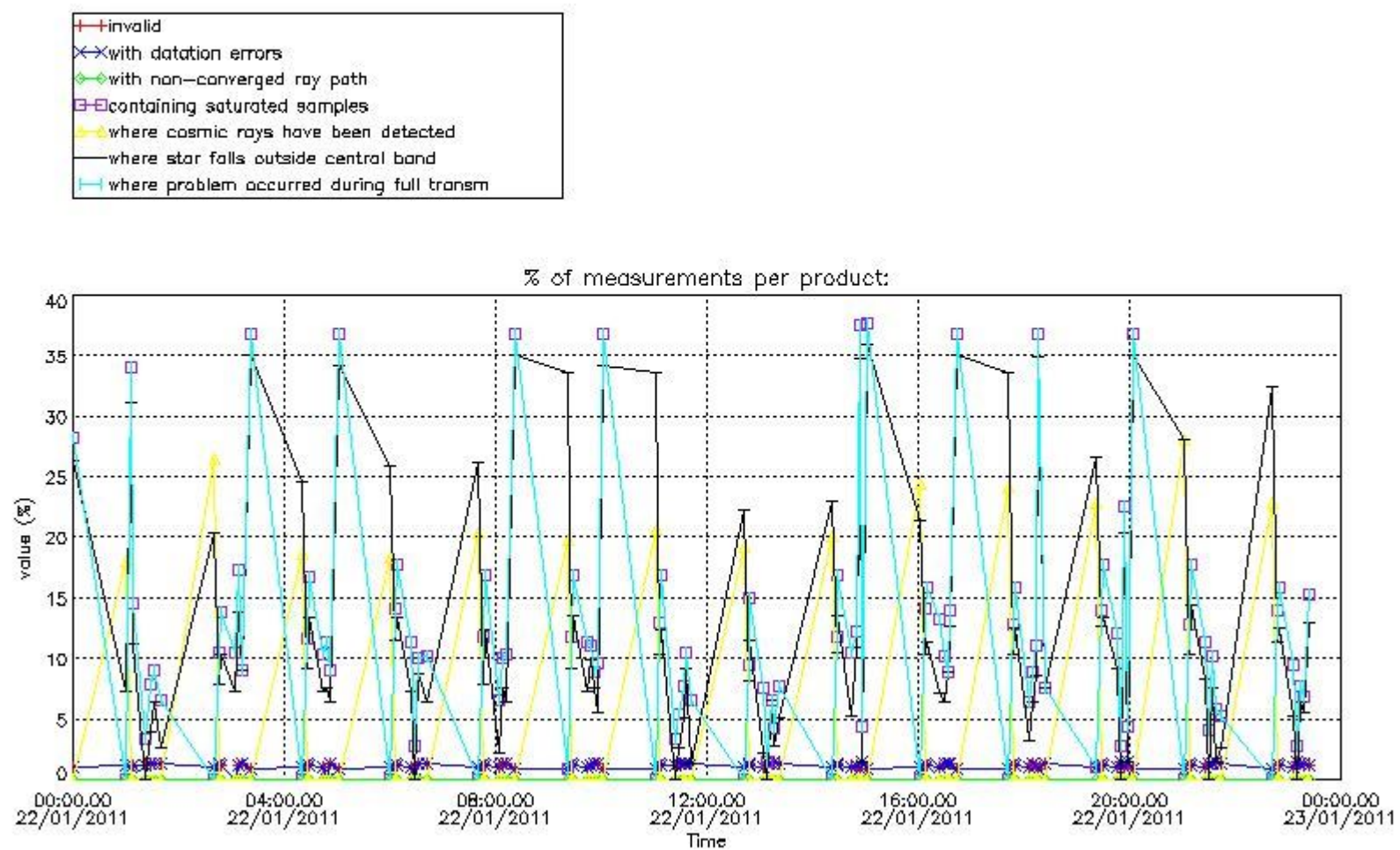
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



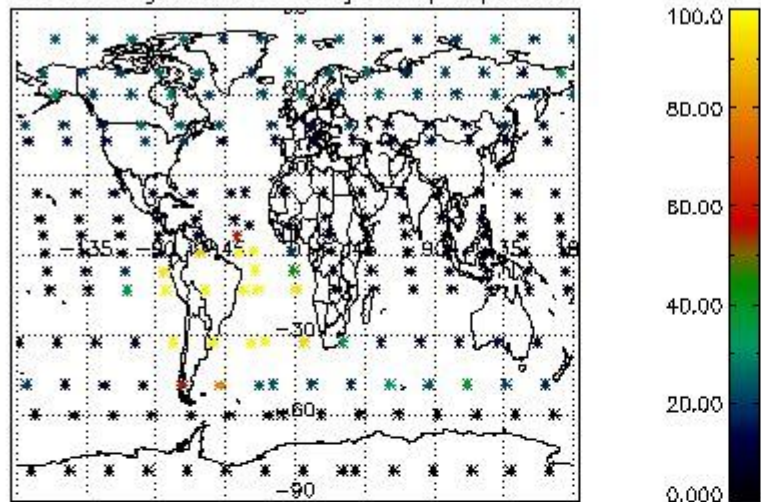
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



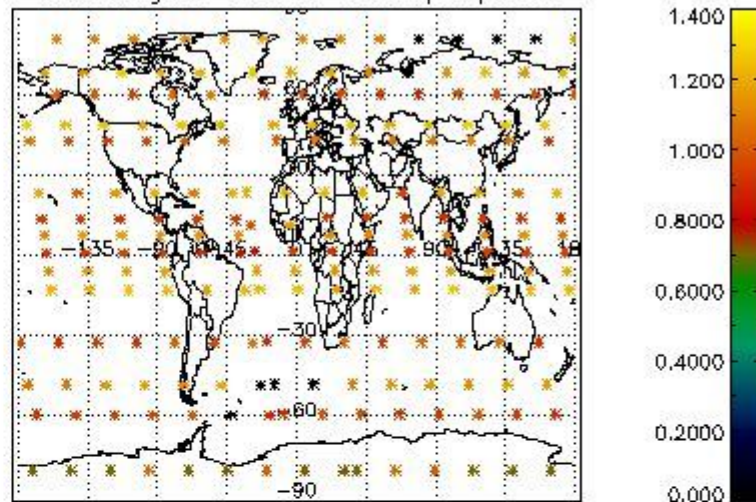
4.2 Plot quality information per product coming from level 1b processing (world map)

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

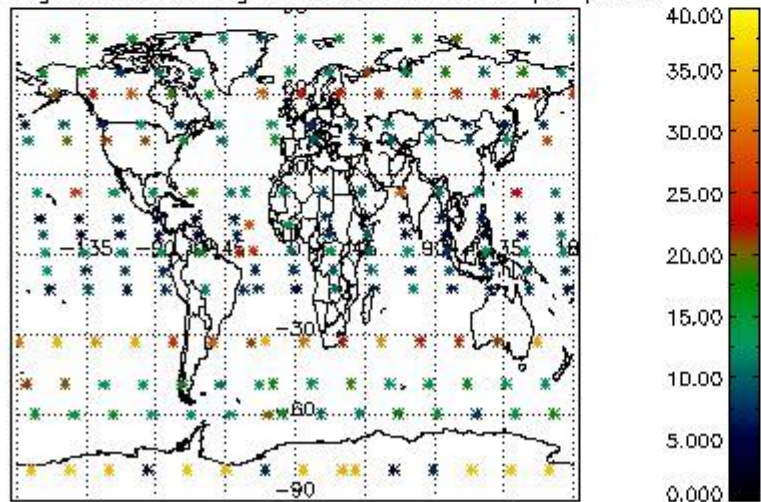
Percentage of cosmic ray hits per profile



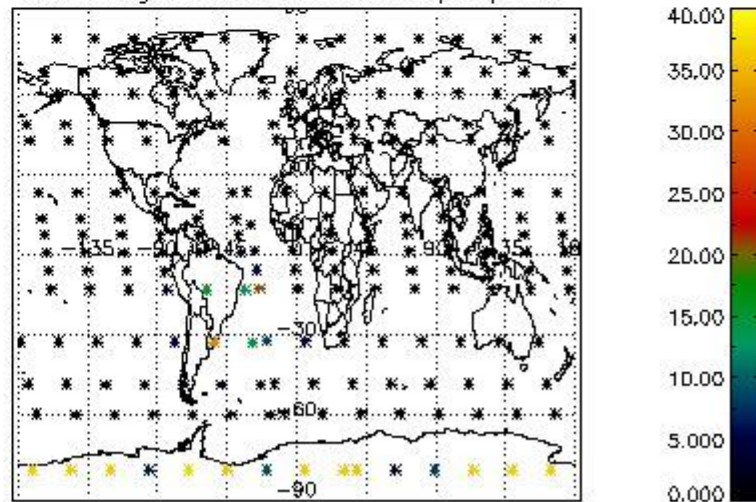
Percentage of datation errors per profile



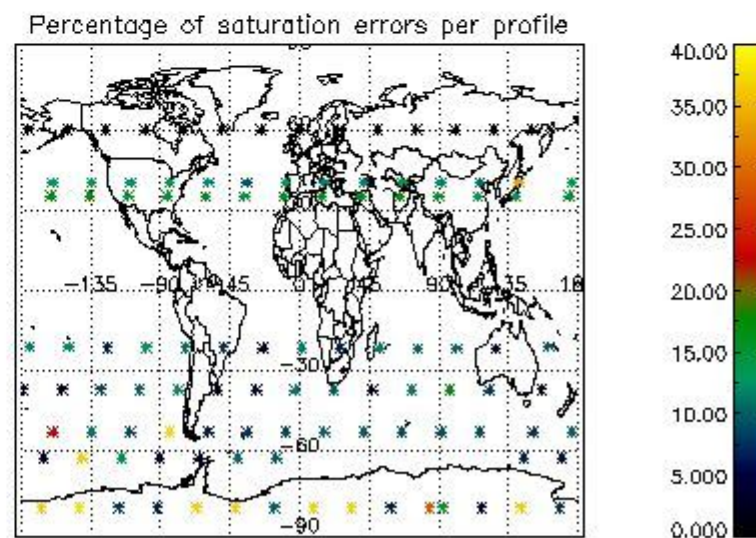
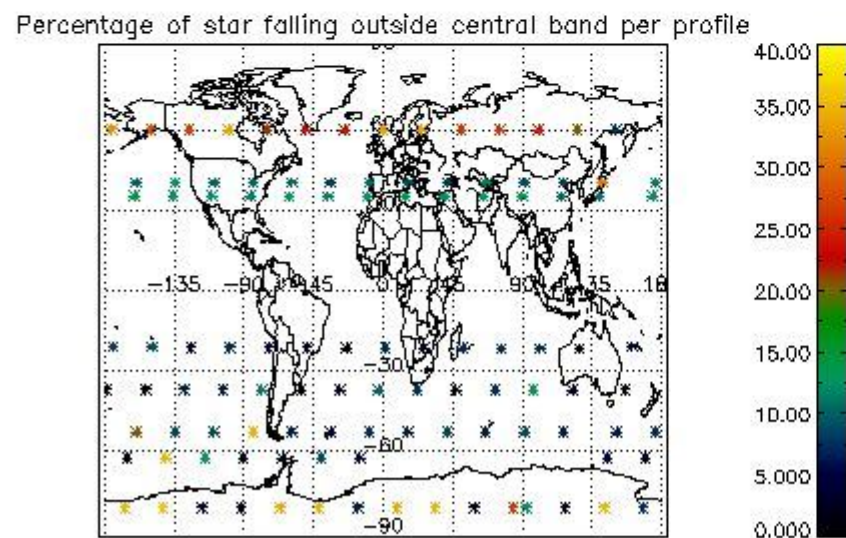
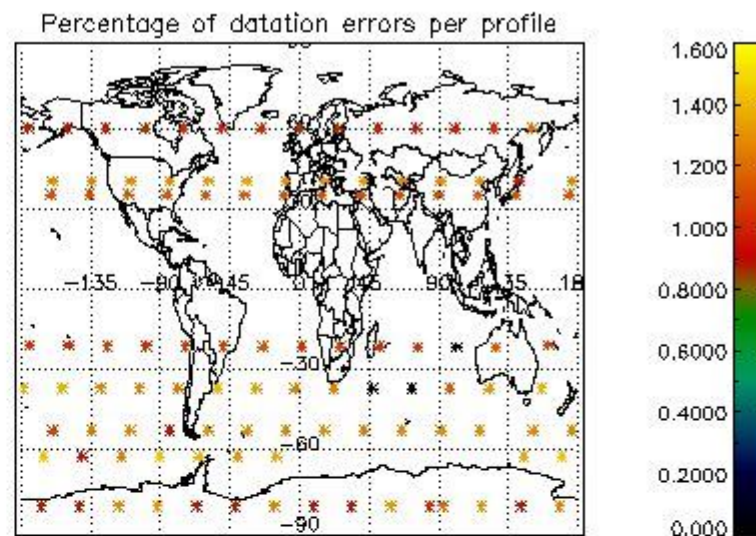
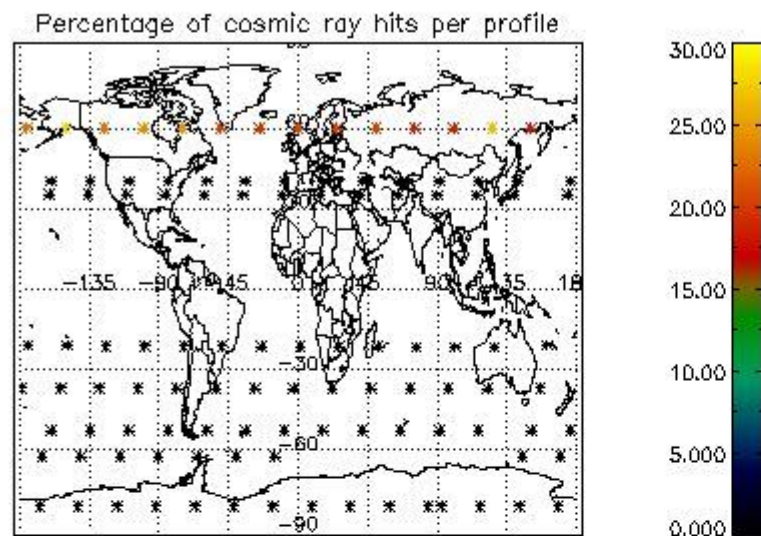
Percentage of star falling outside central band per profile



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

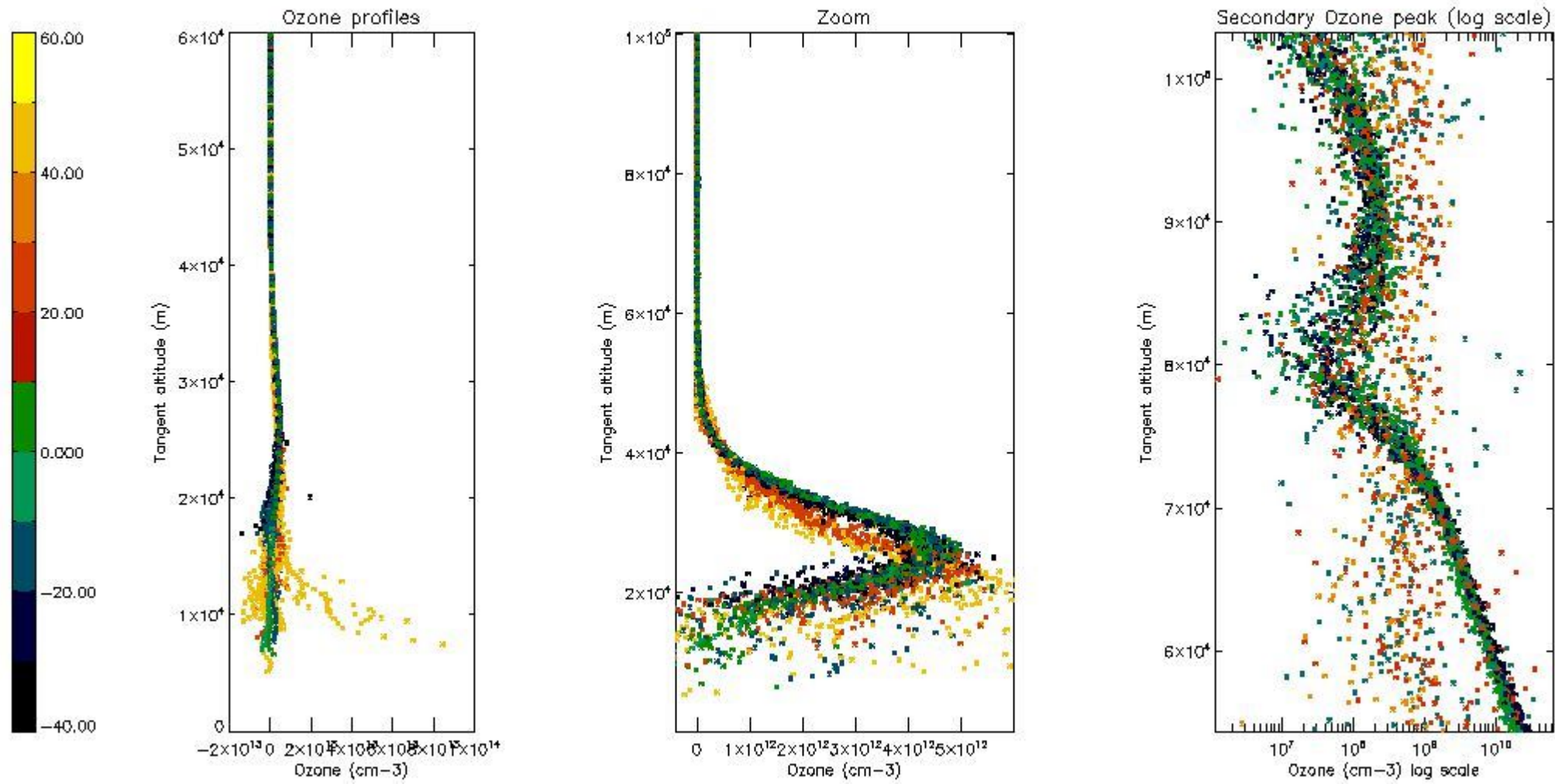
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	40
STD < 20	18

STD < 10	14
STD < 5	8

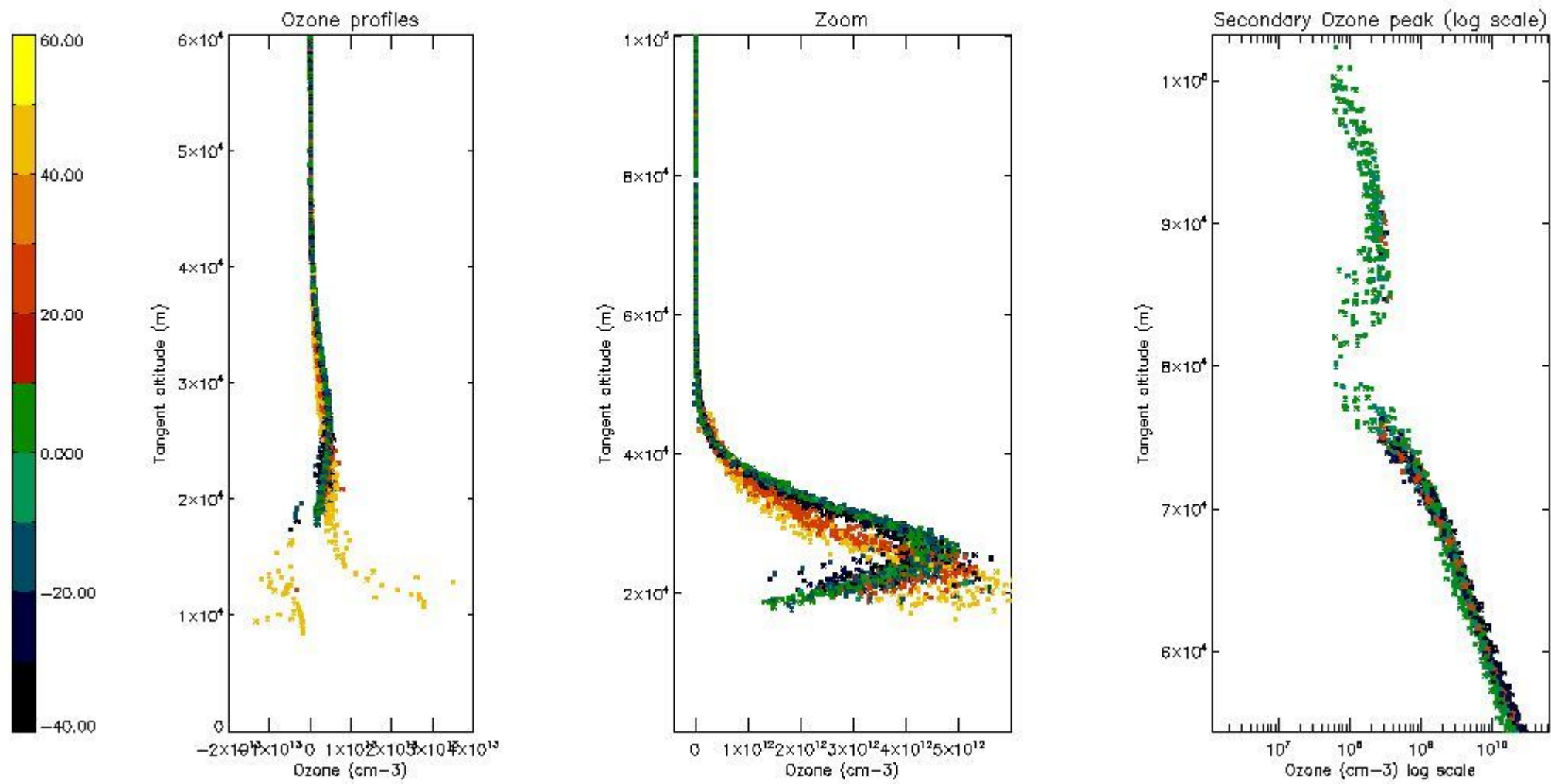
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



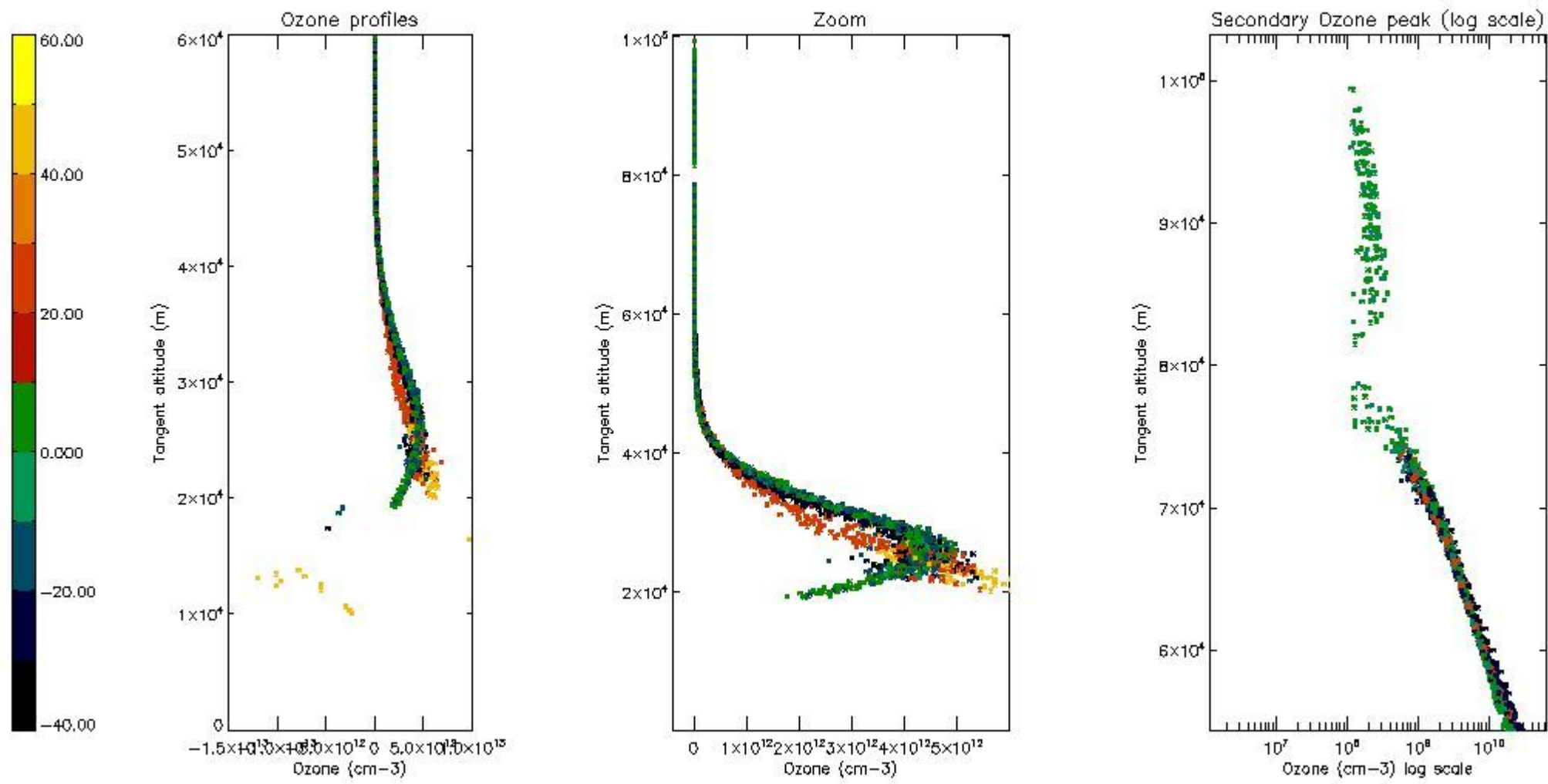
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



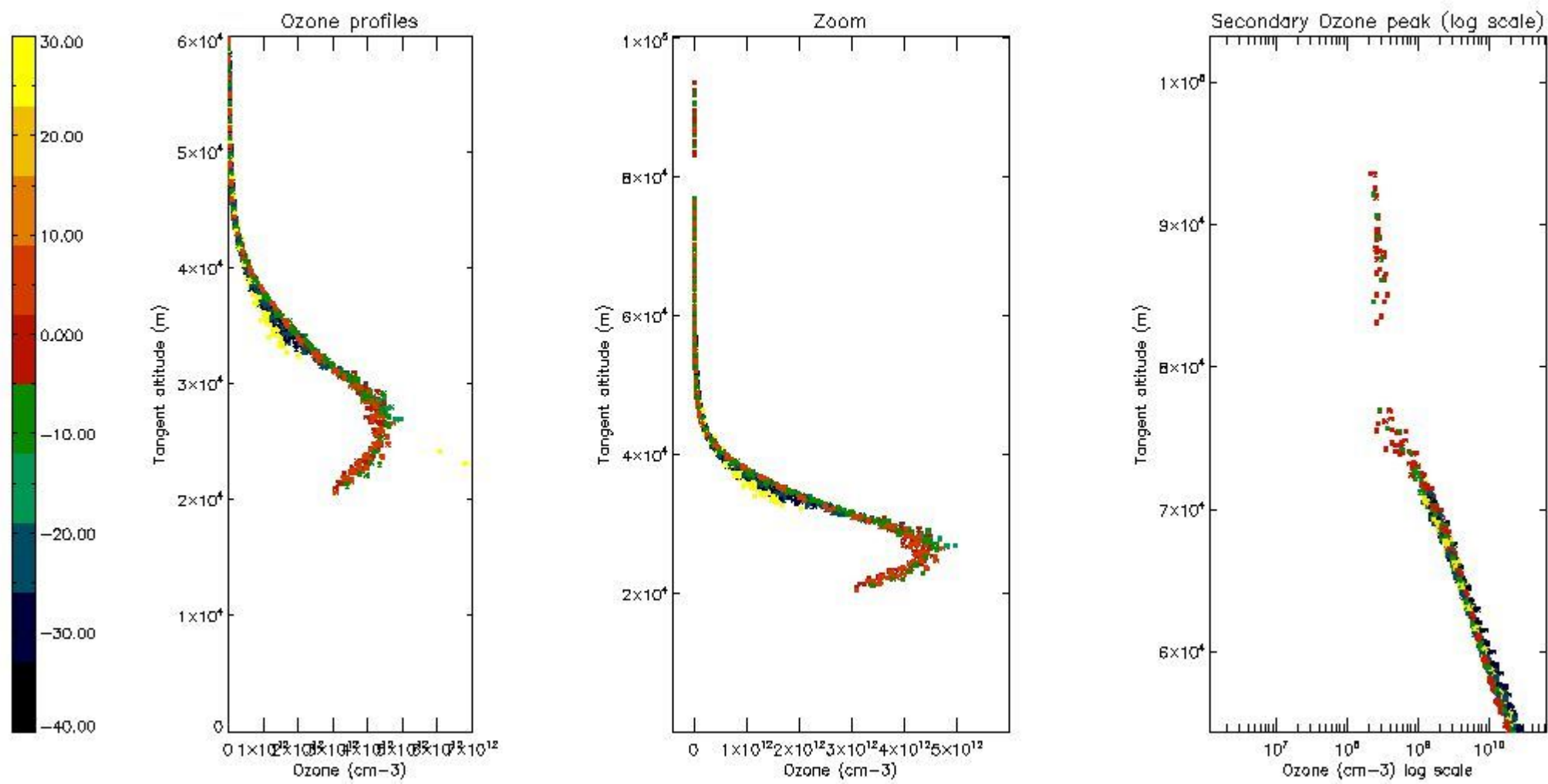
5.4 Plot ozone profiles where $STD < 10\%$ (dark without errors)

The colorbar represents the latitude.



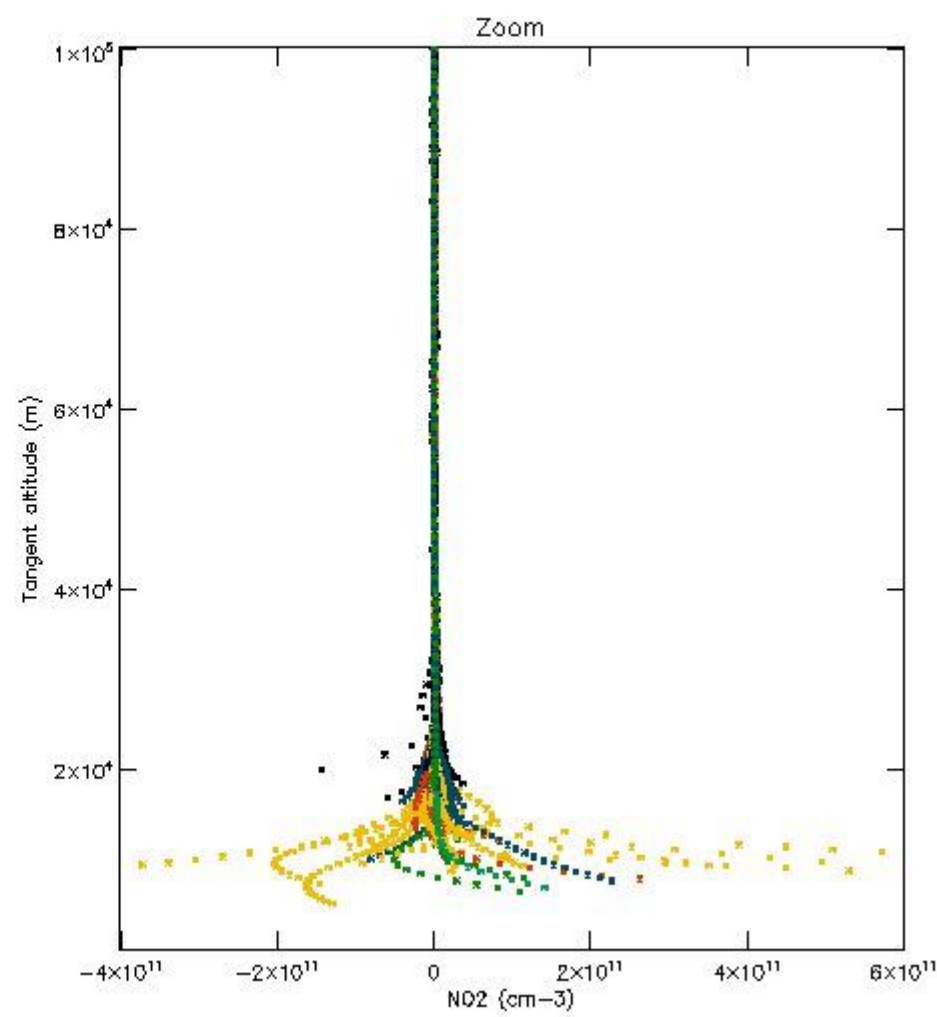
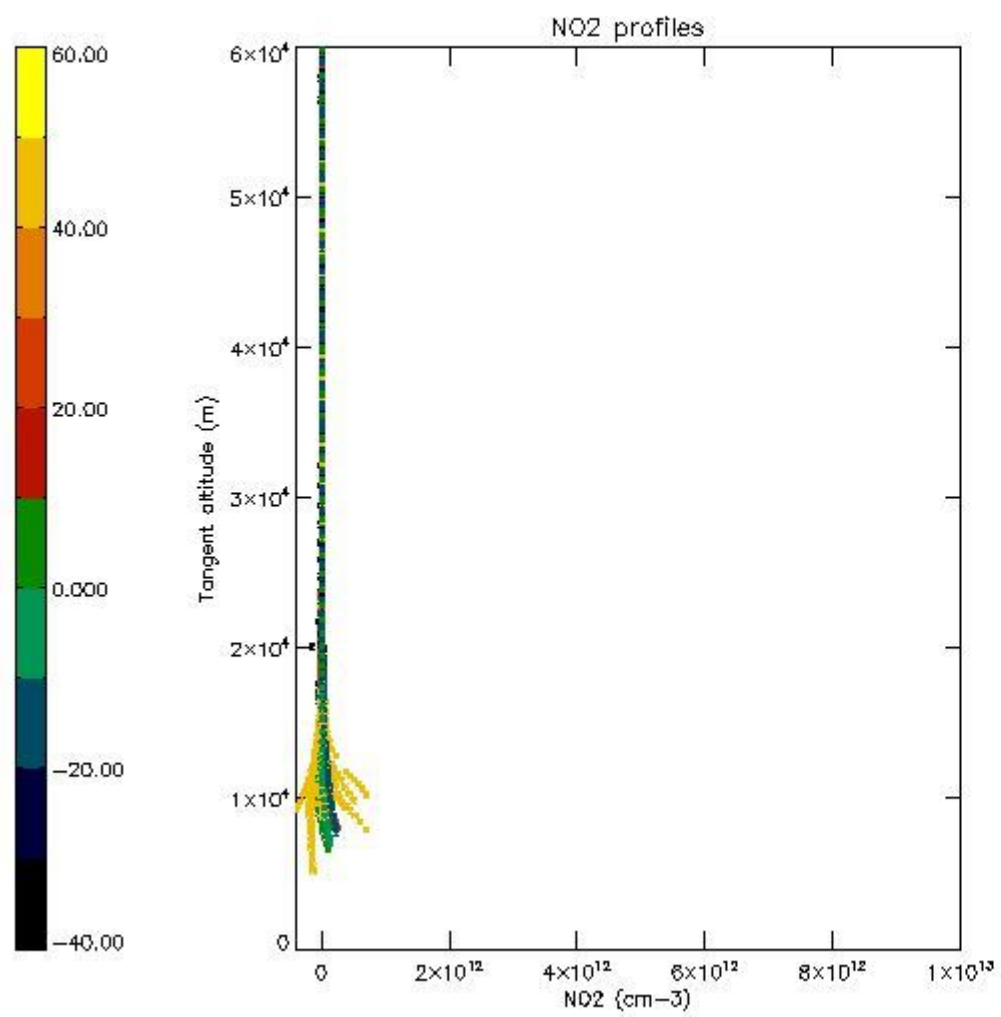
5.5 Plot ozone profiles where STD < 5% (dark without errors)

The colorbar represents the latitude.



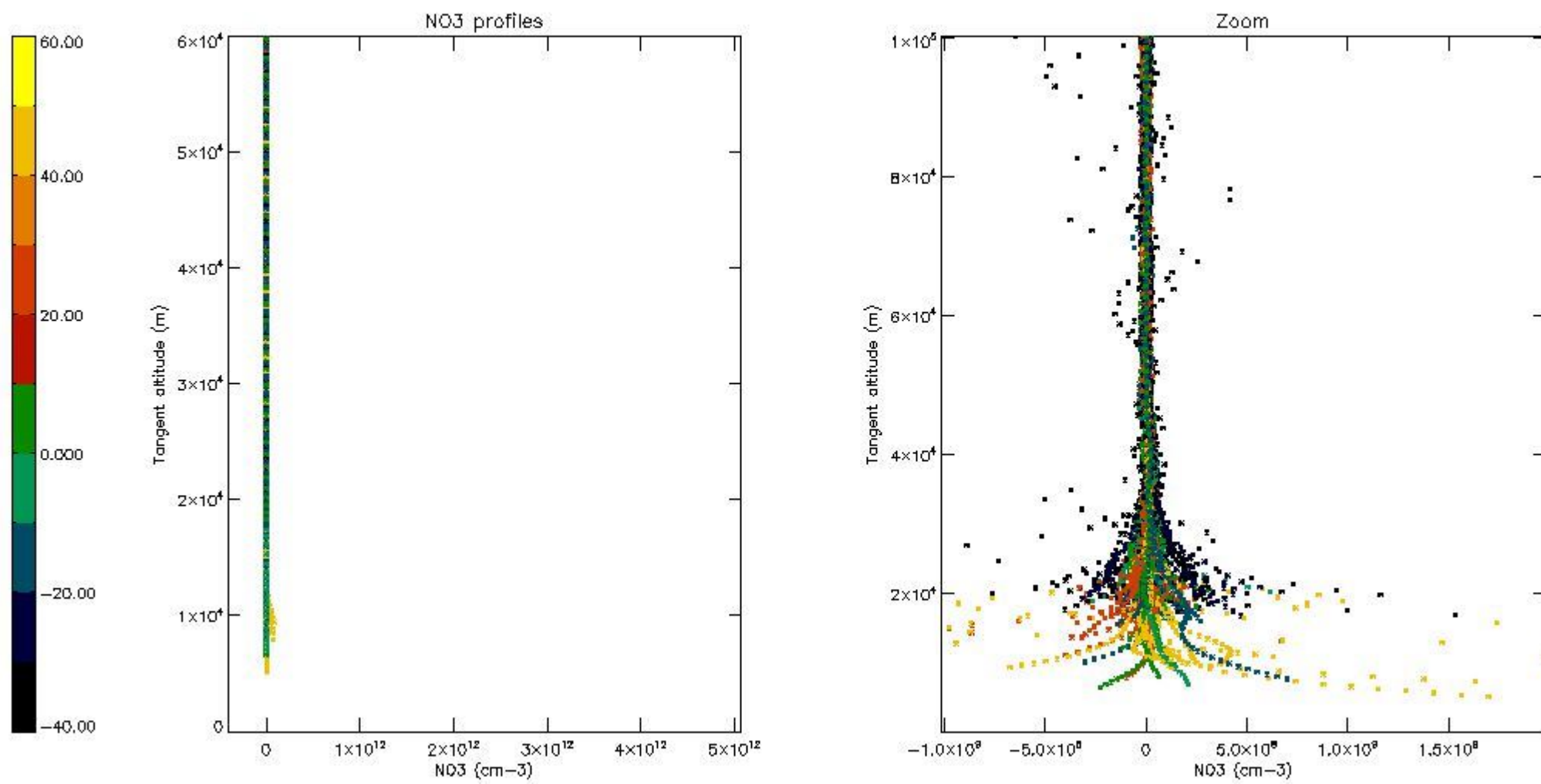
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



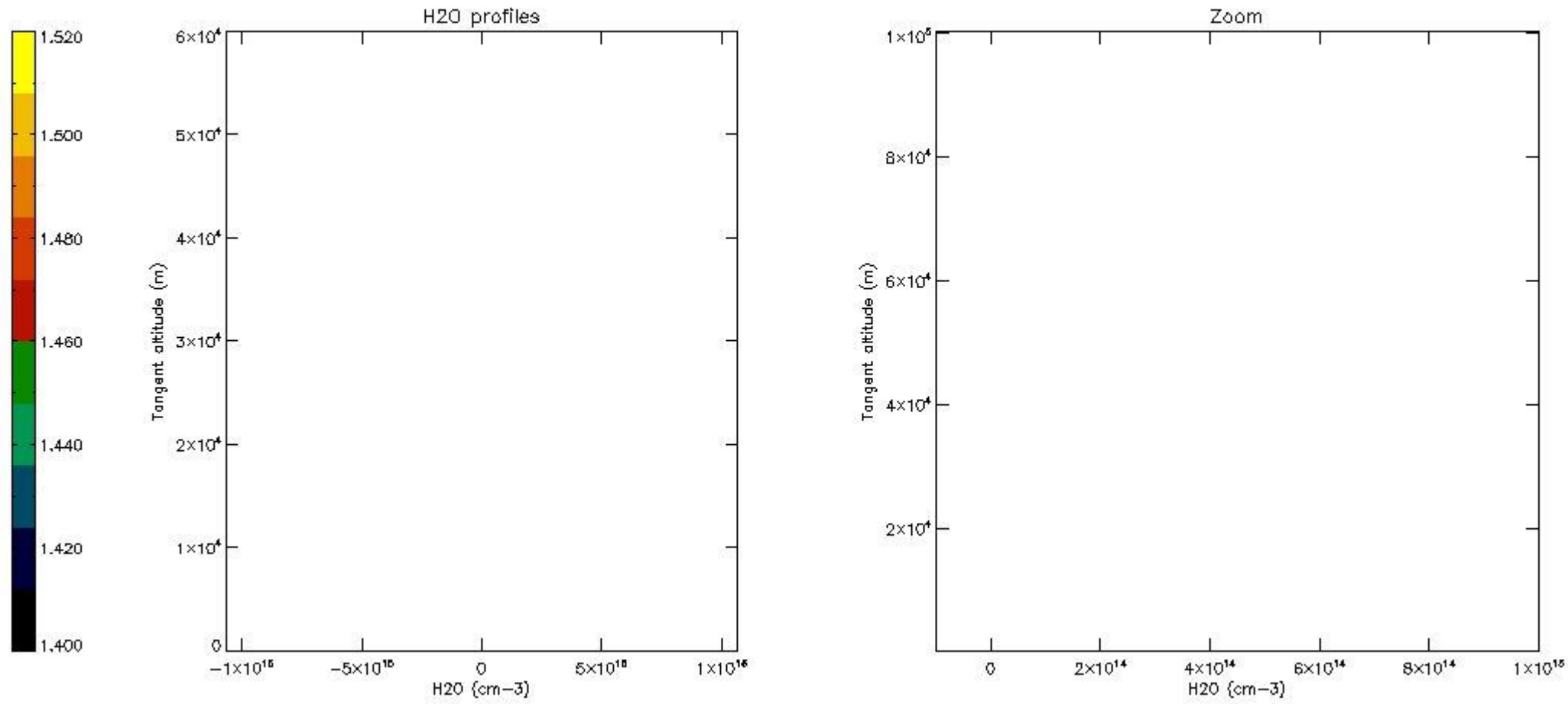
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

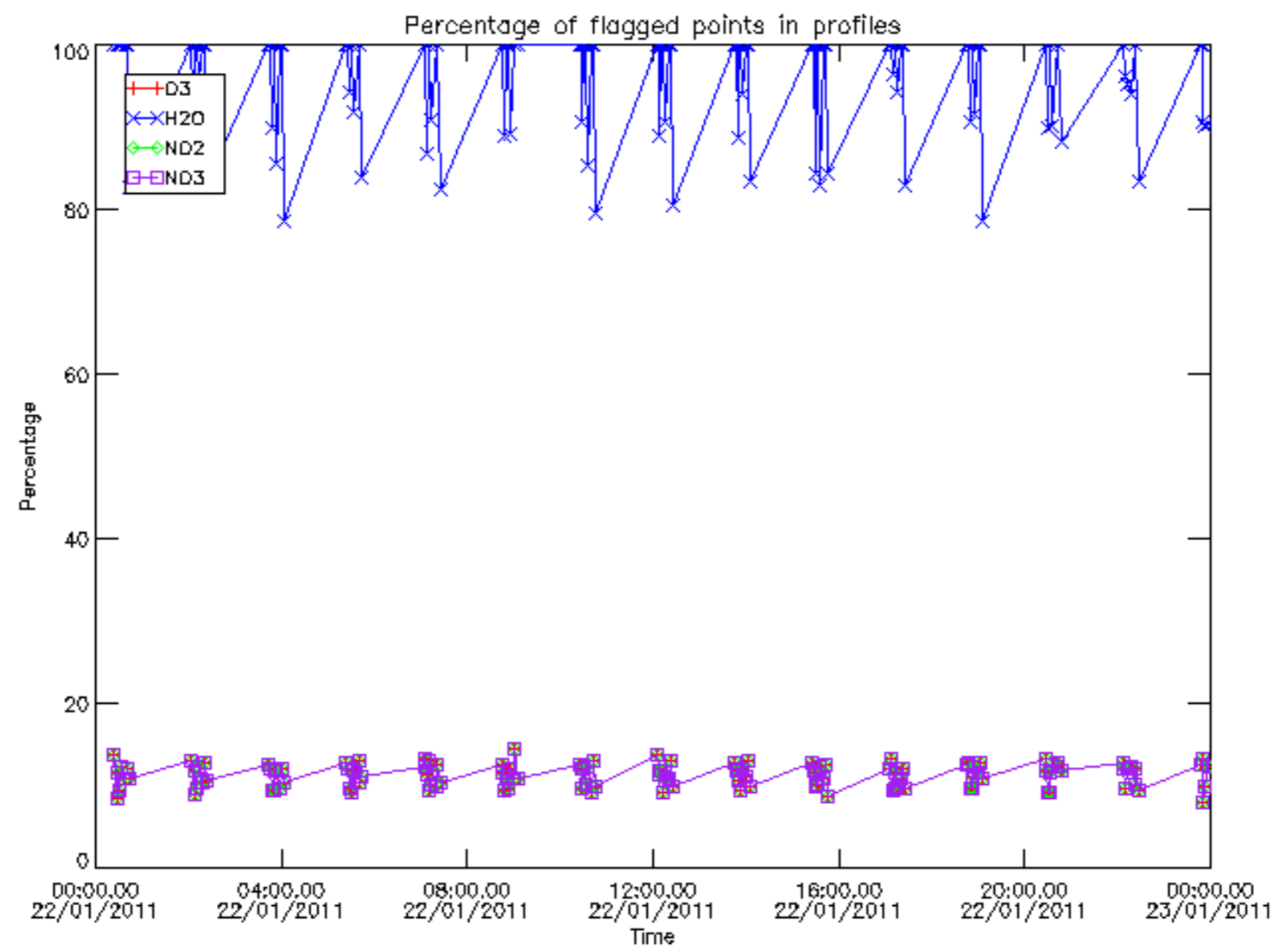
The colorbar represents the latitude.



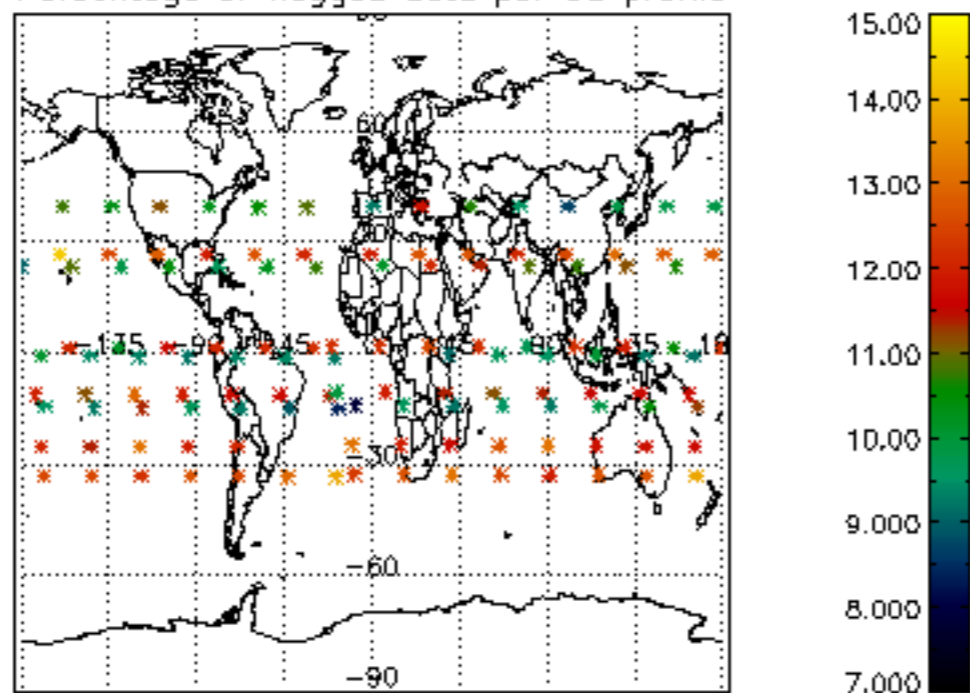
6. Auxiliary Data Files used for the production reported in section 2

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.

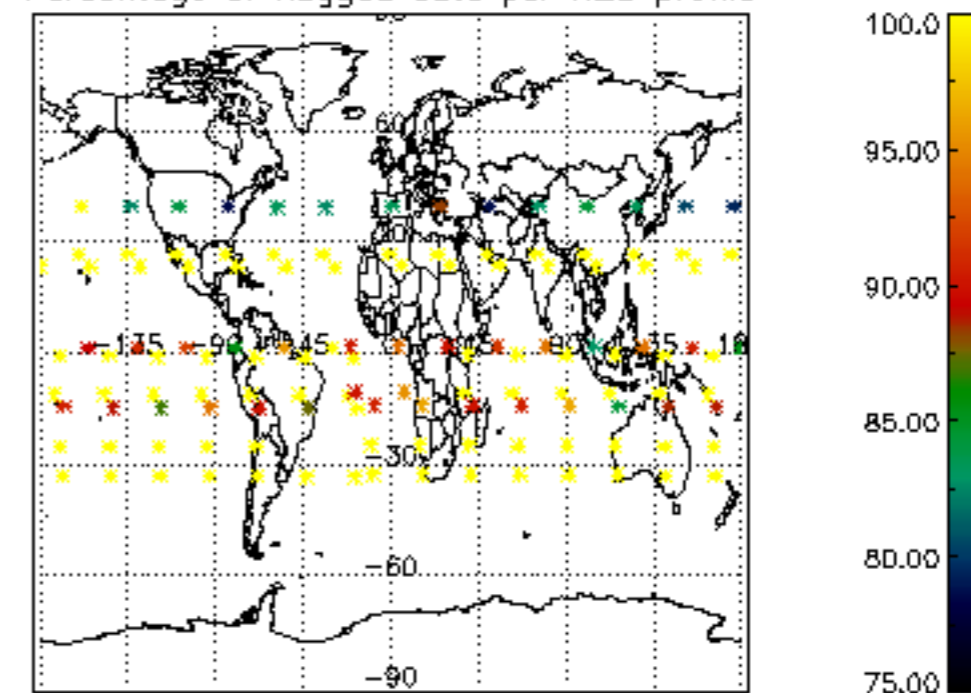
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-JAN-2011 00:00:43
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	22-JAN-2011 00:00:43
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	22-JAN-2011 00:00:43



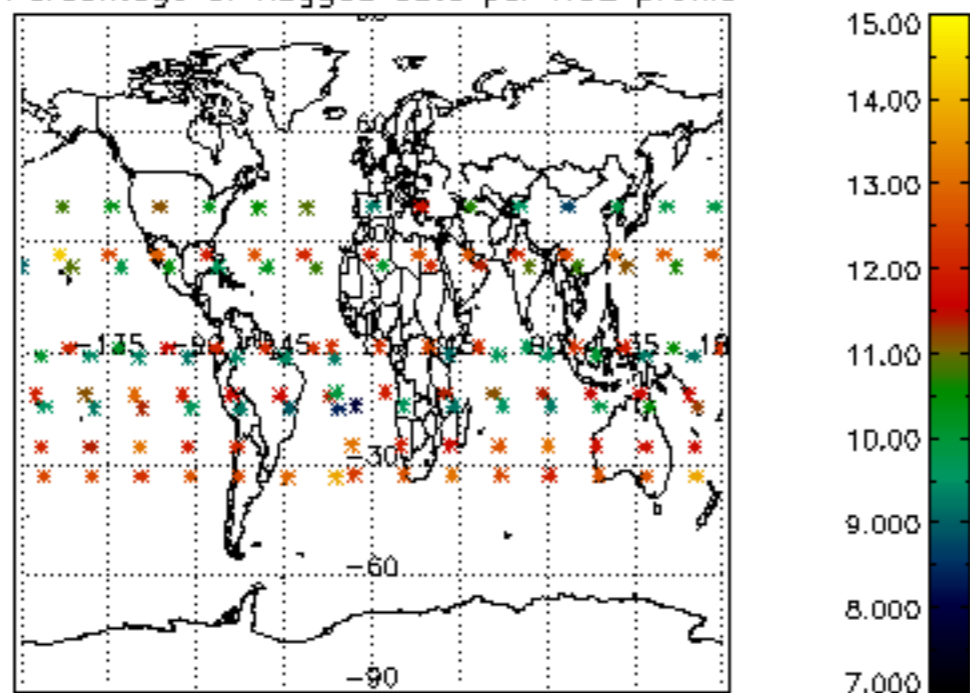
Percentage of flagged data per D3 profile



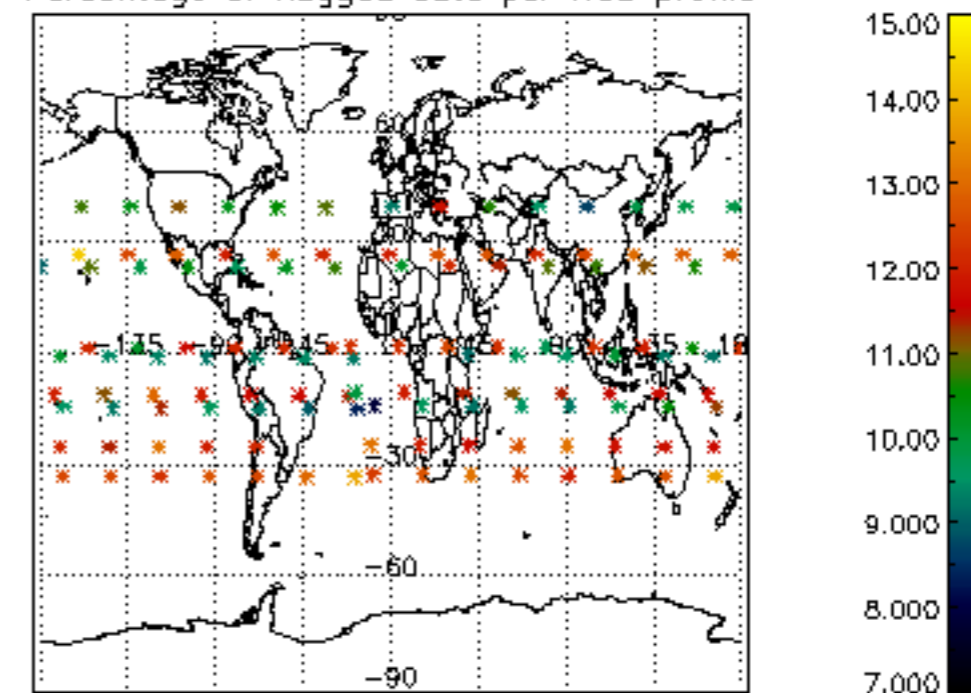
Percentage of flagged data per H2O profile

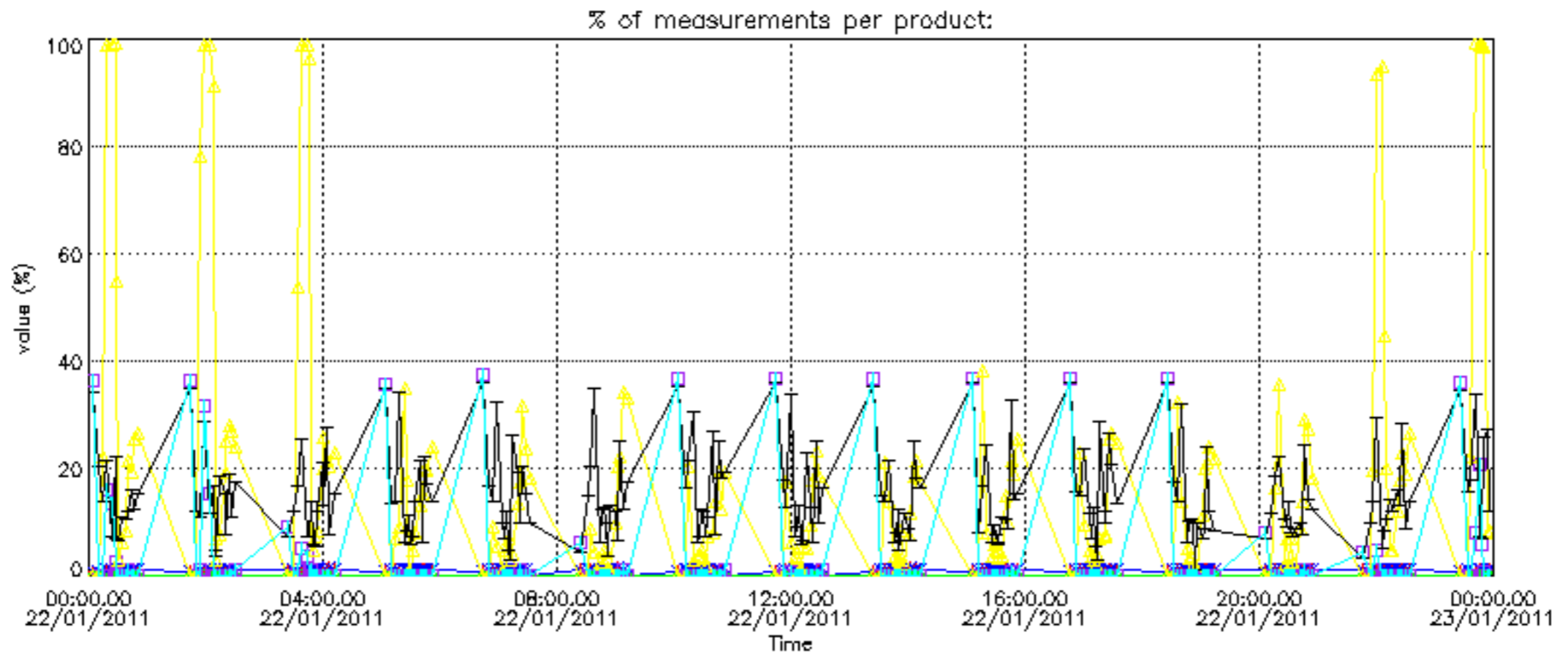


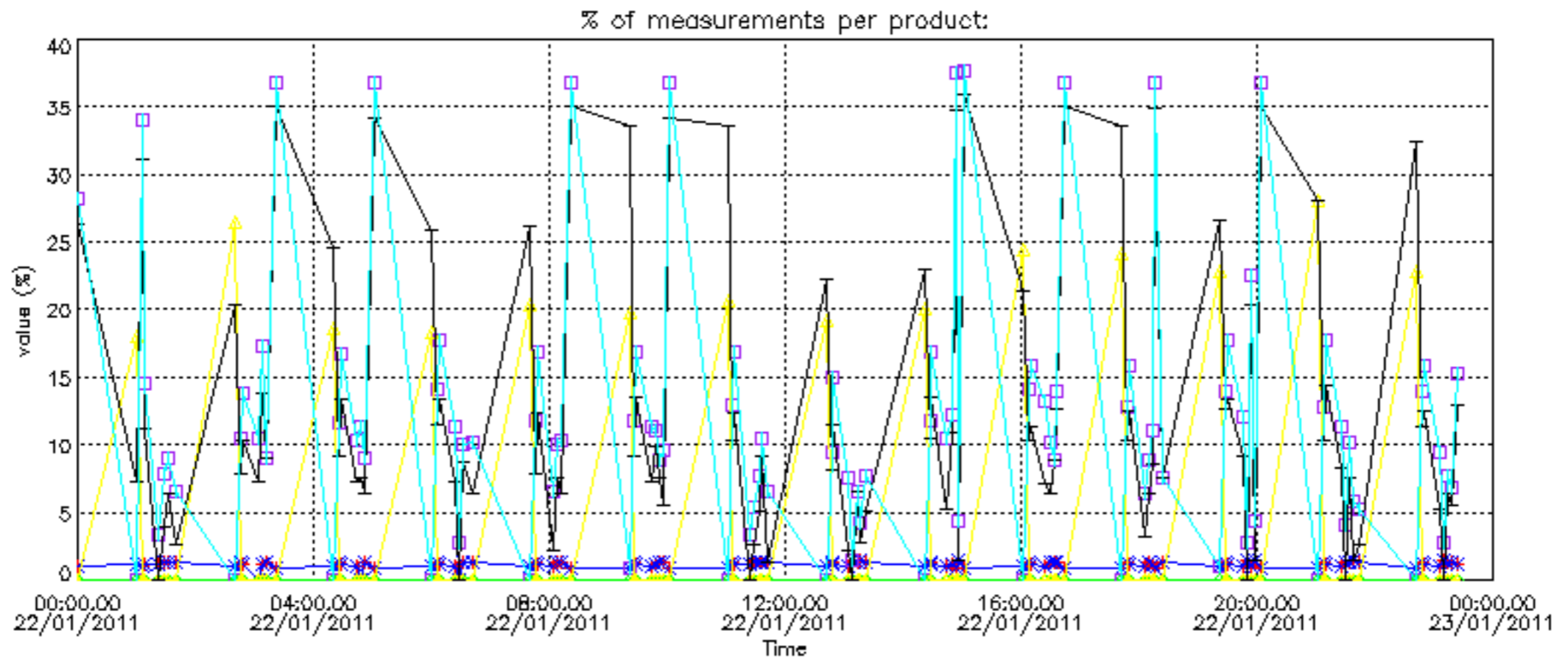
Percentage of flagged data per NO2 profile



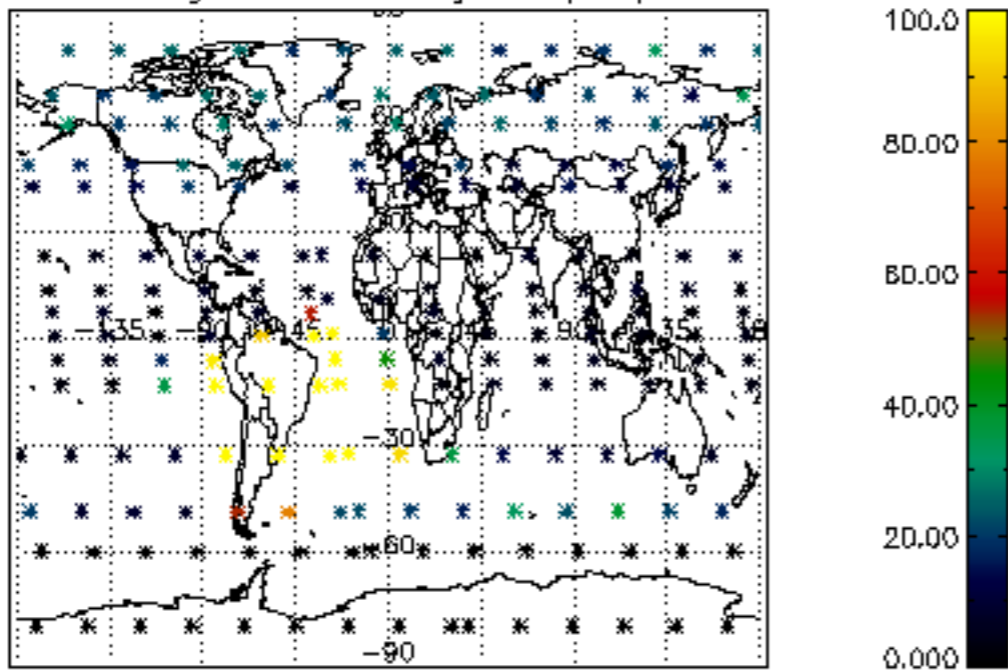
Percentage of flagged data per NO3 profile



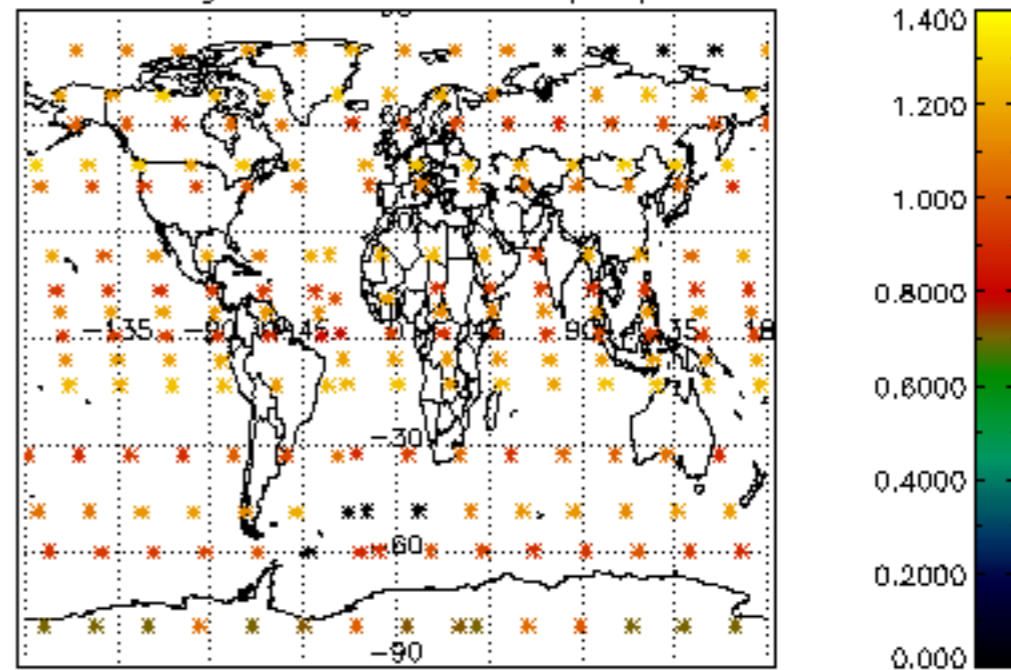




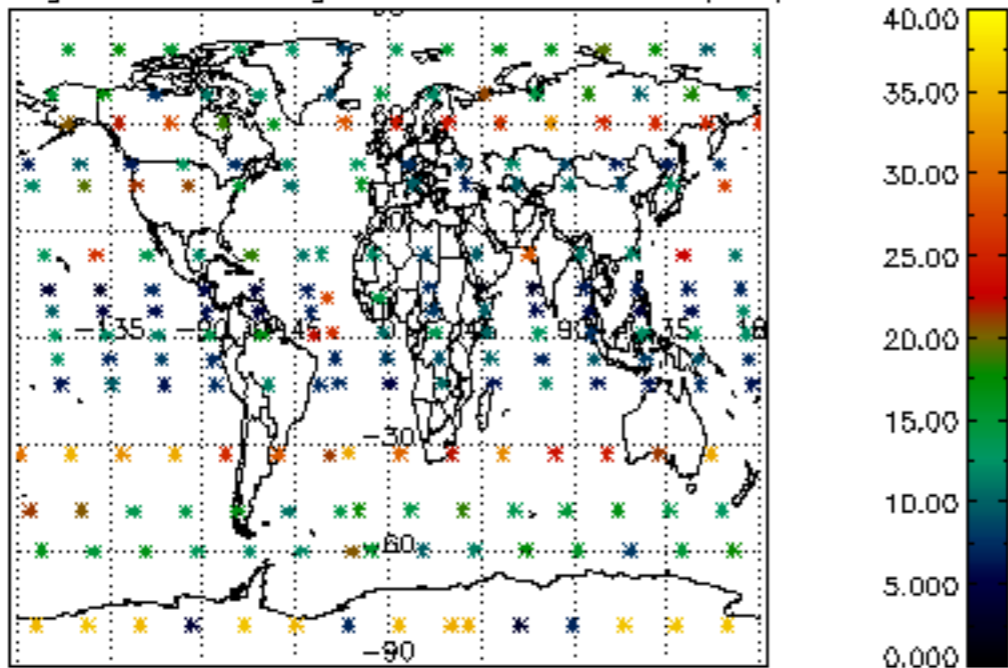
Percentage of cosmic ray hits per profile



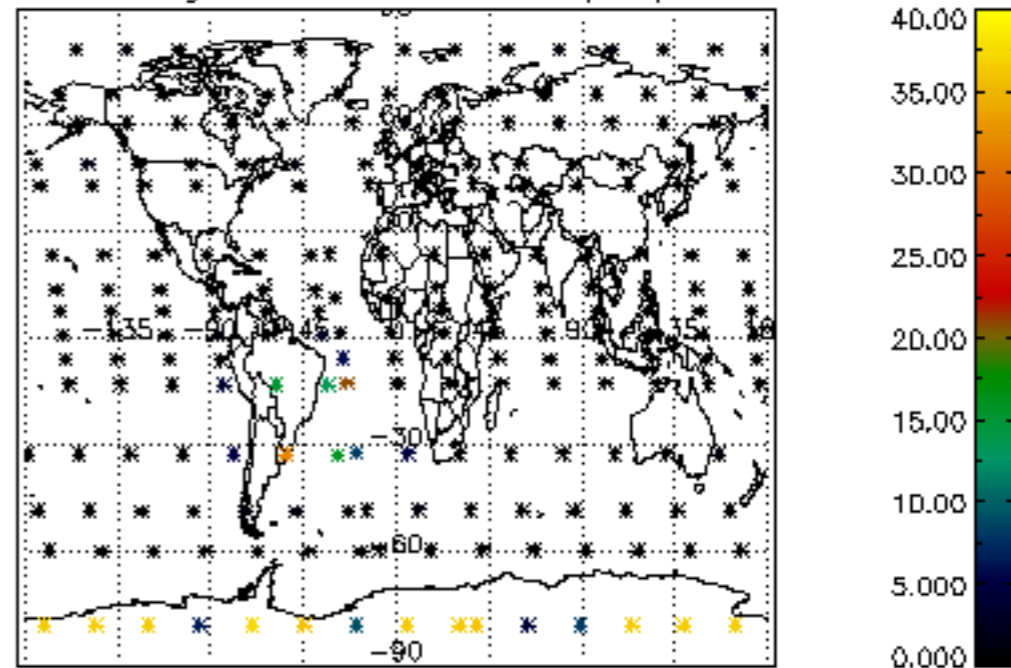
Percentage of datation errors per profile



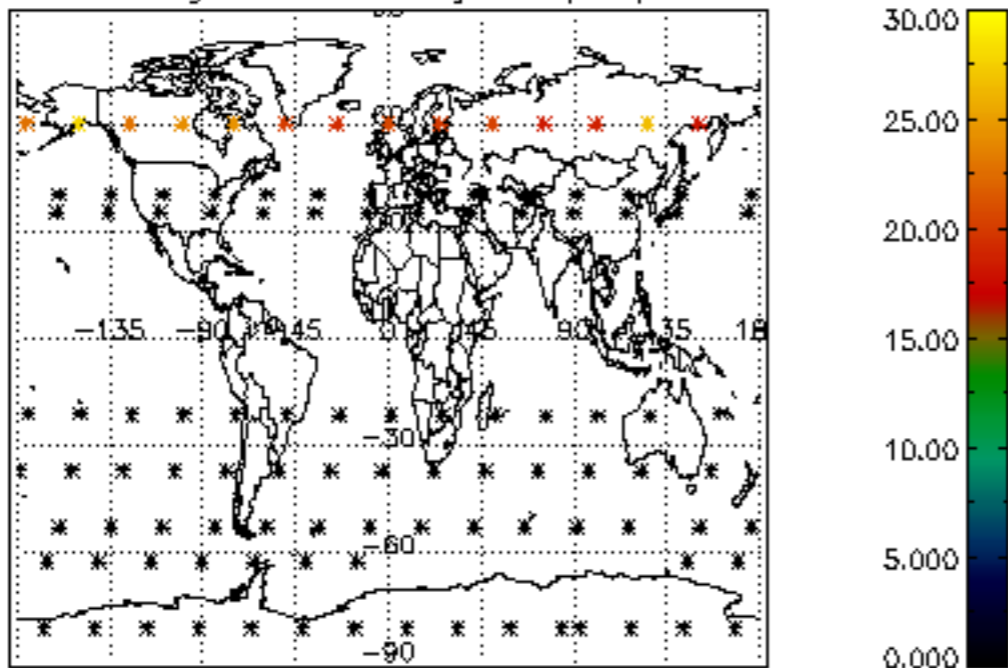
Percentage of star falling outside central band per profile



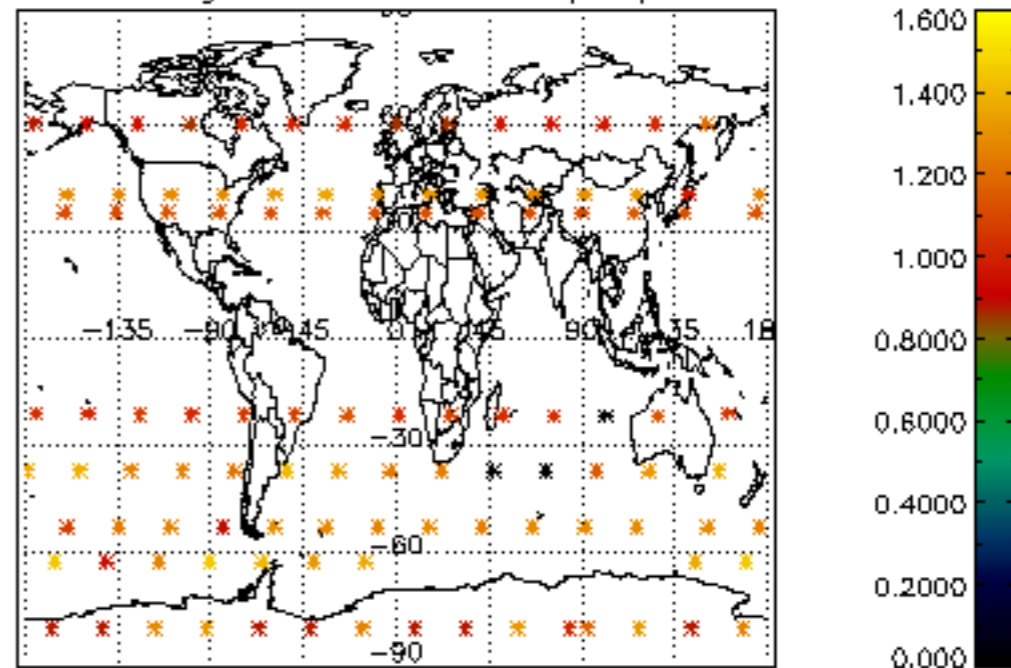
Percentage of saturation errors per profile



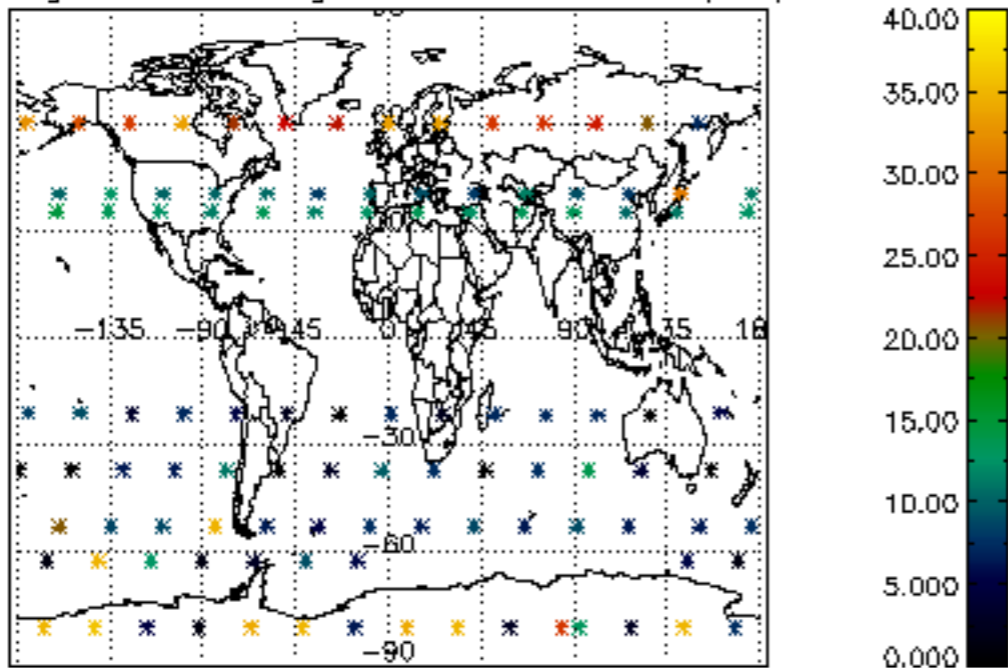
Percentage of cosmic ray hits per profile



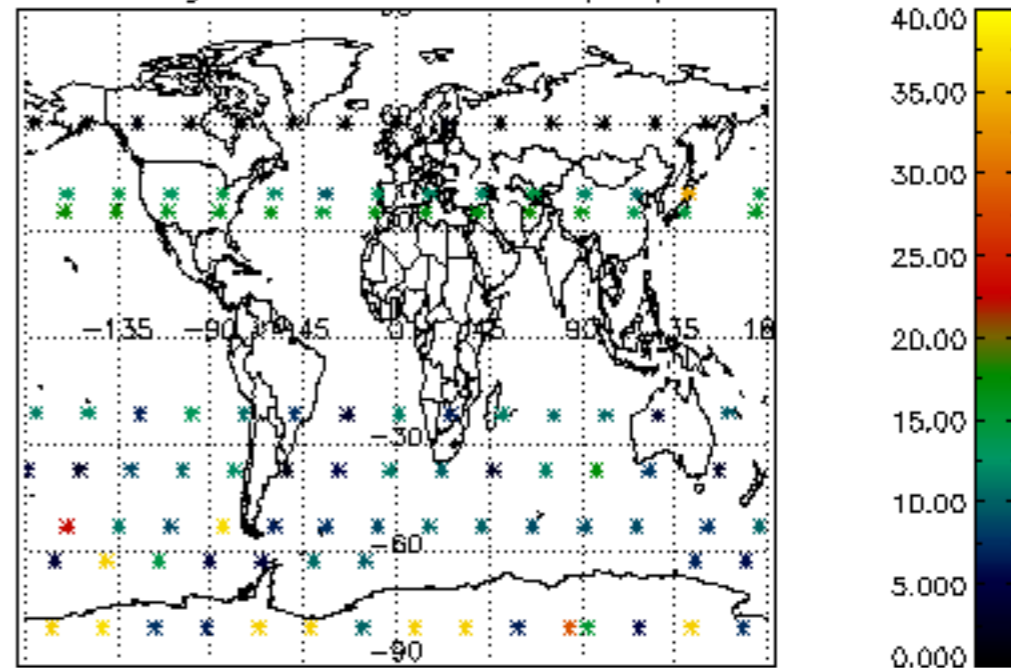
Percentage of datation errors per profile

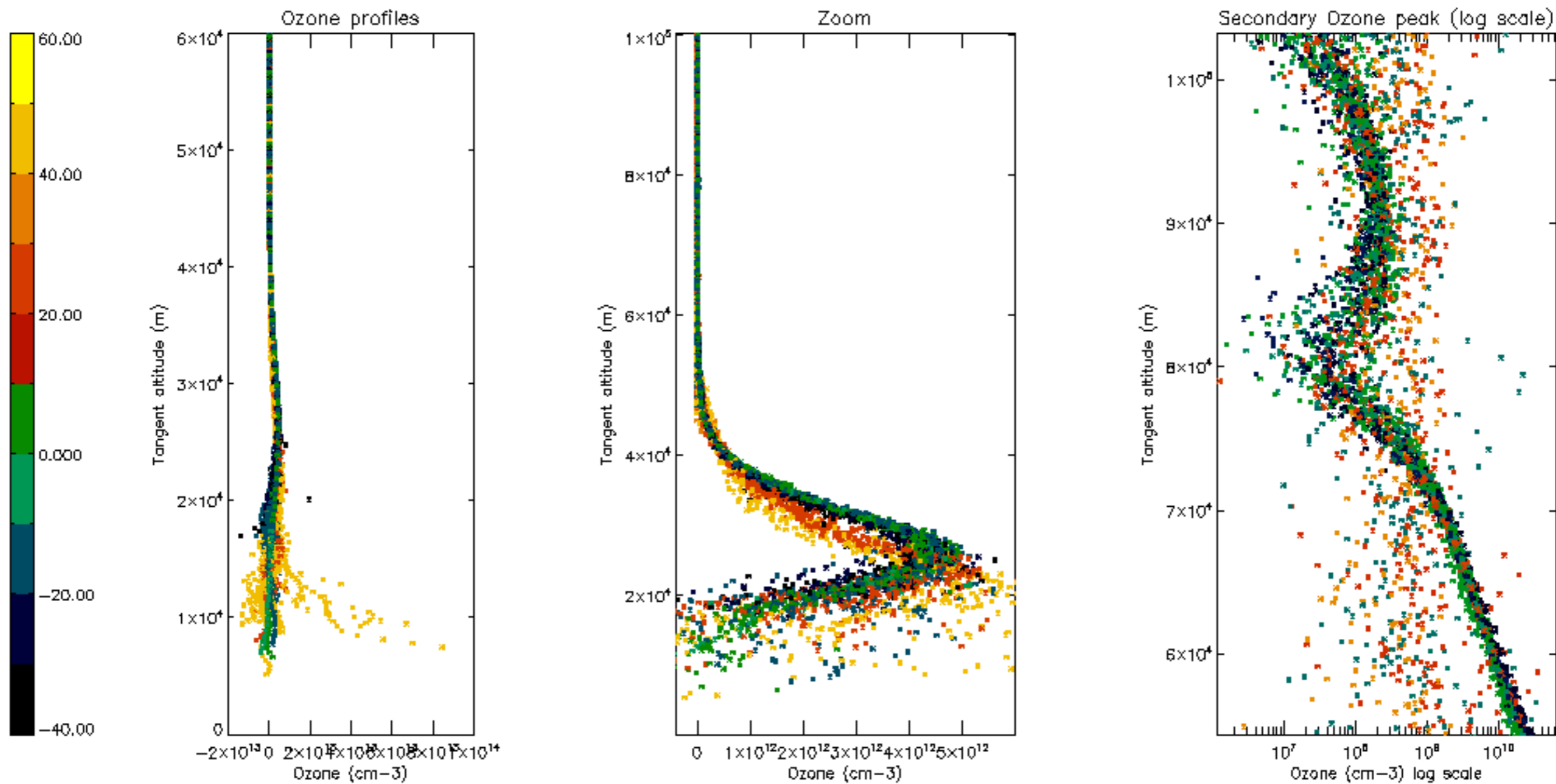


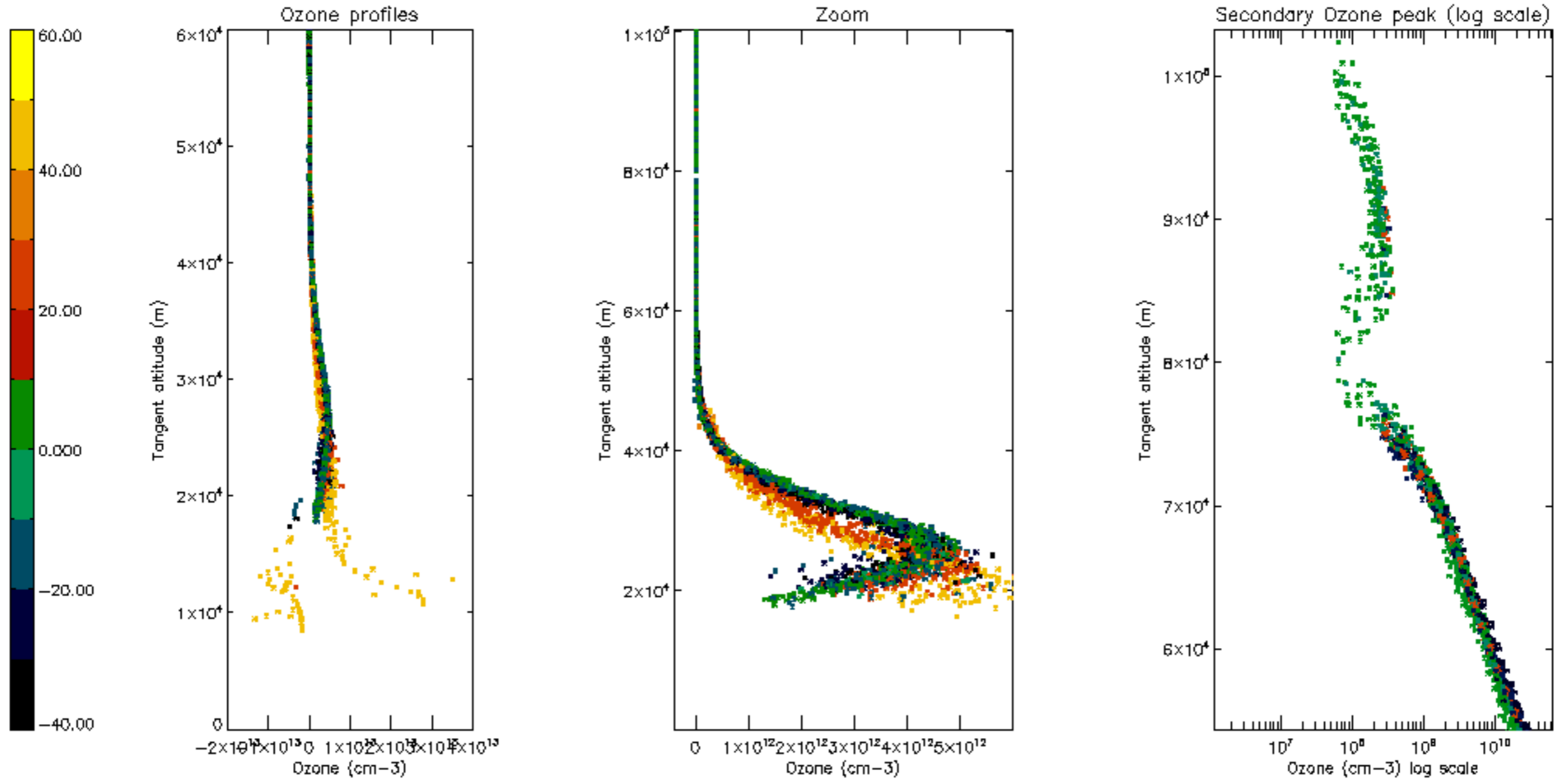
Percentage of star falling outside central band per profile

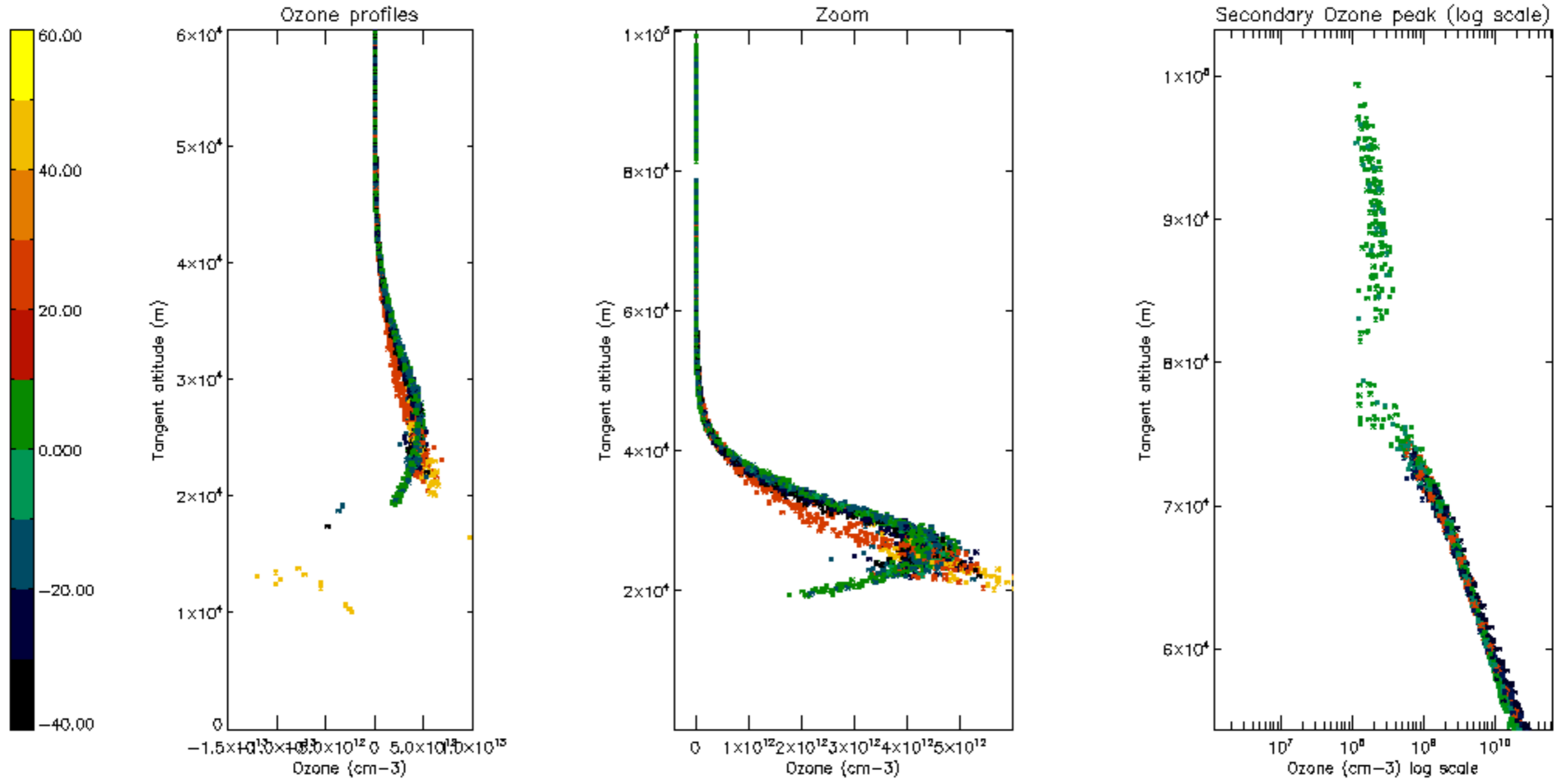


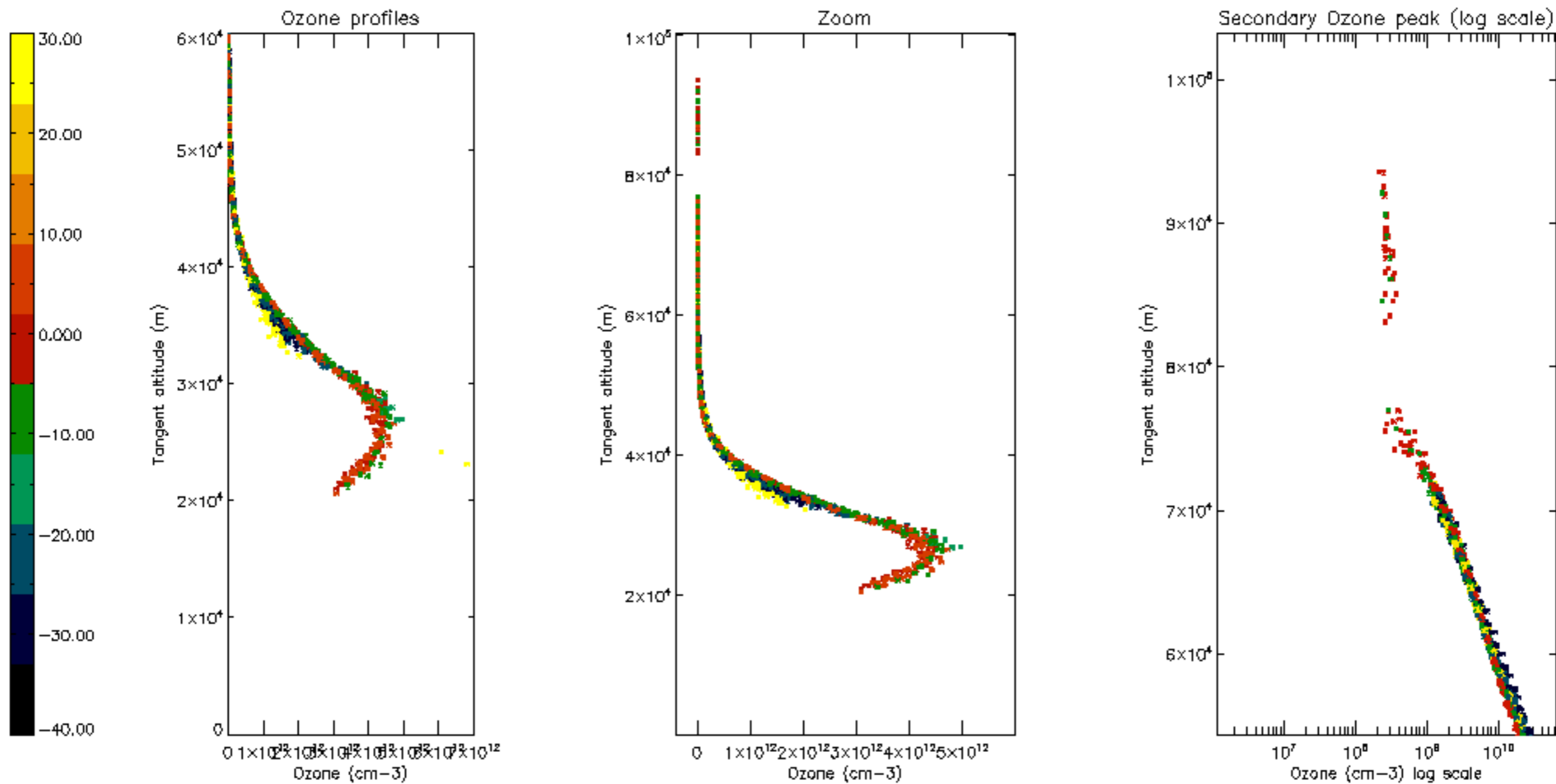
Percentage of saturation errors per profile

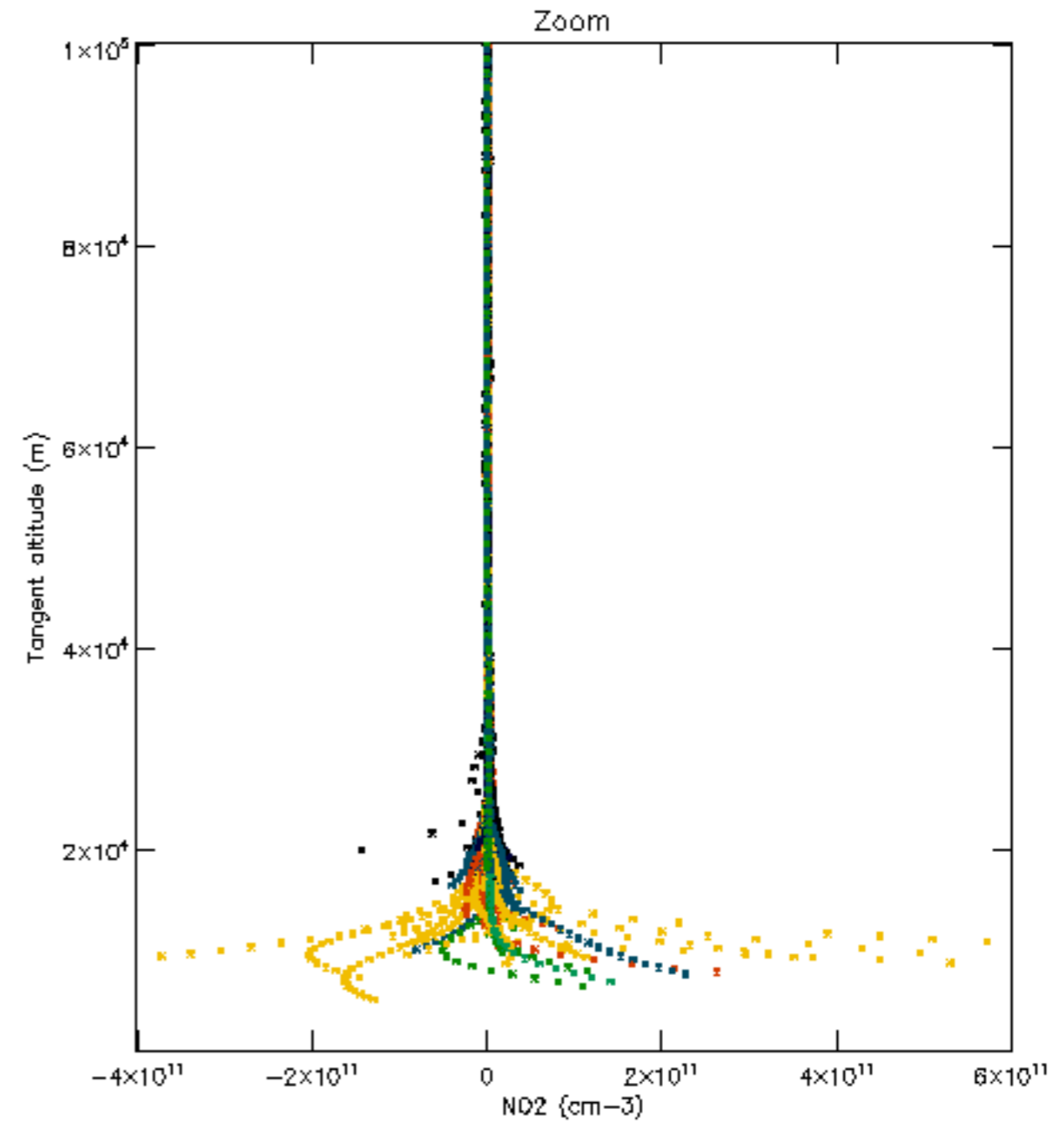
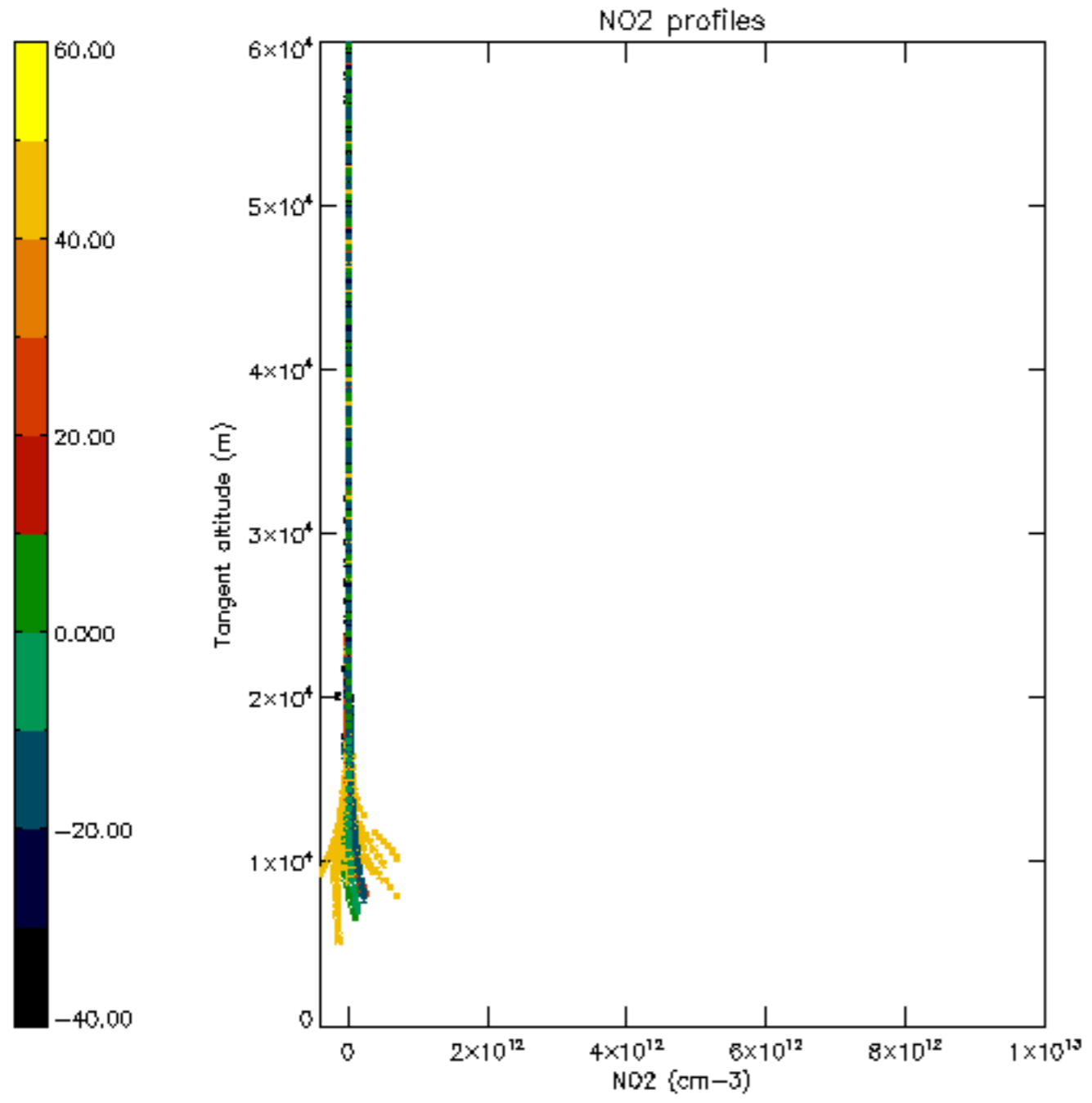


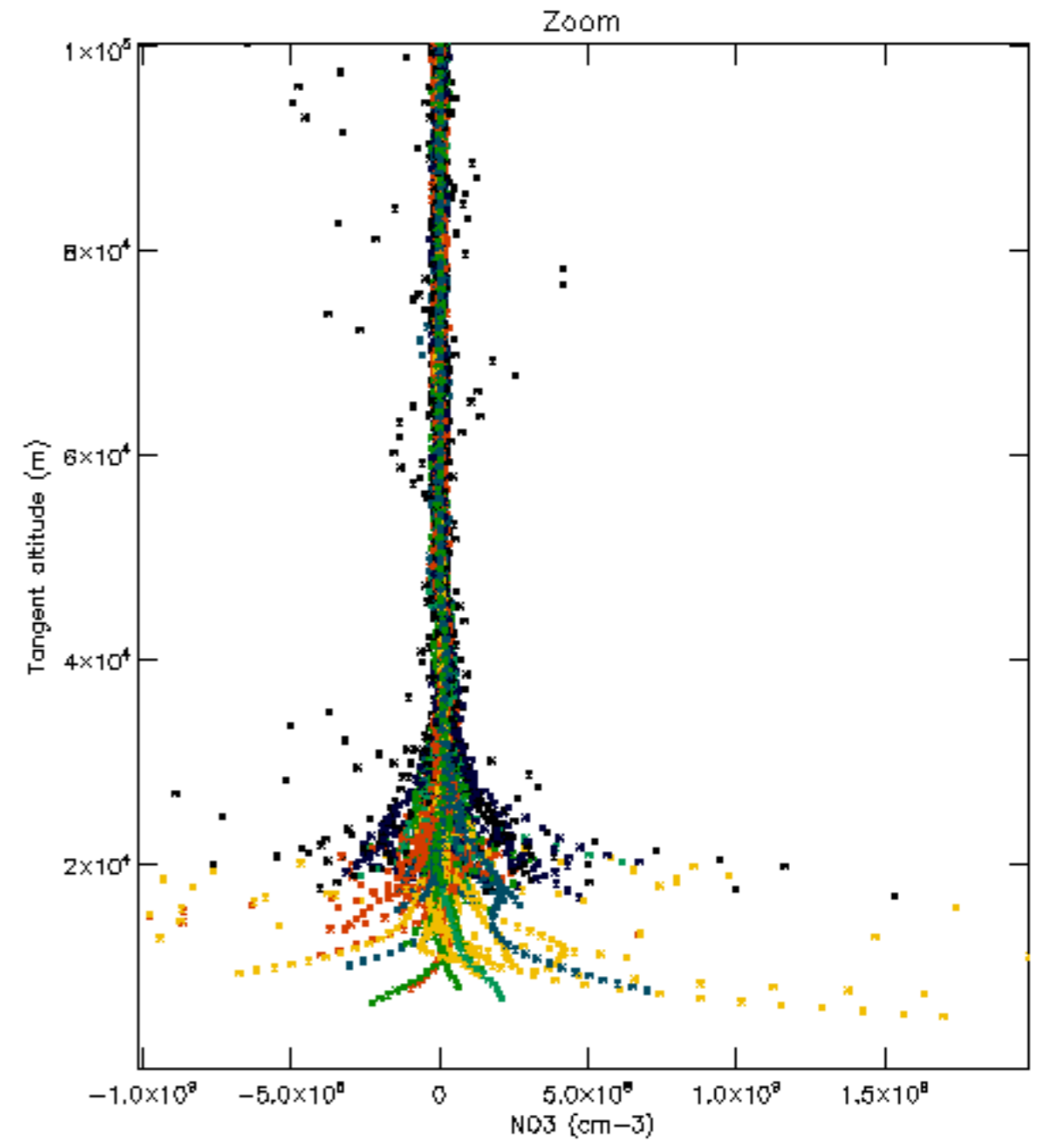
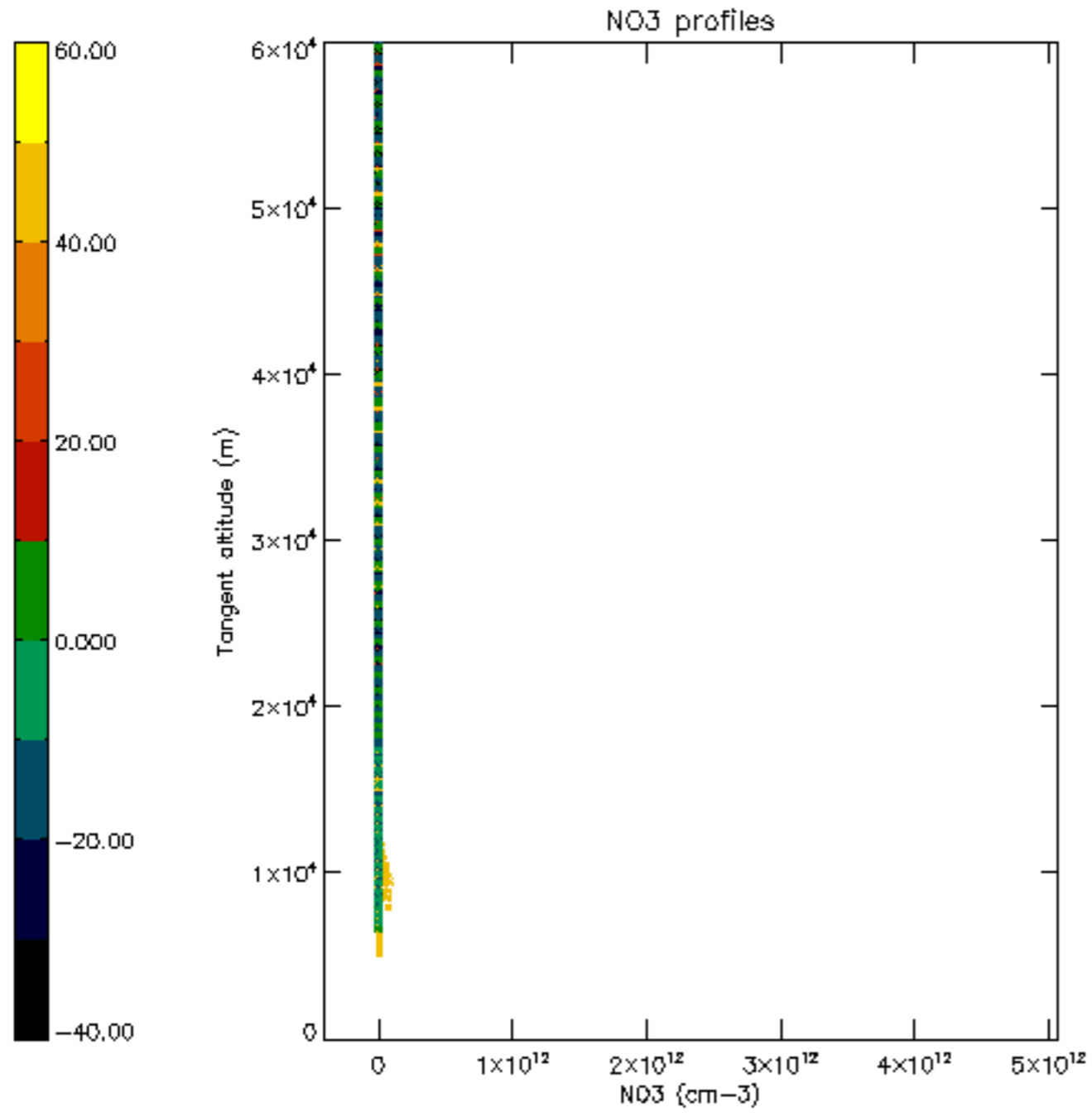


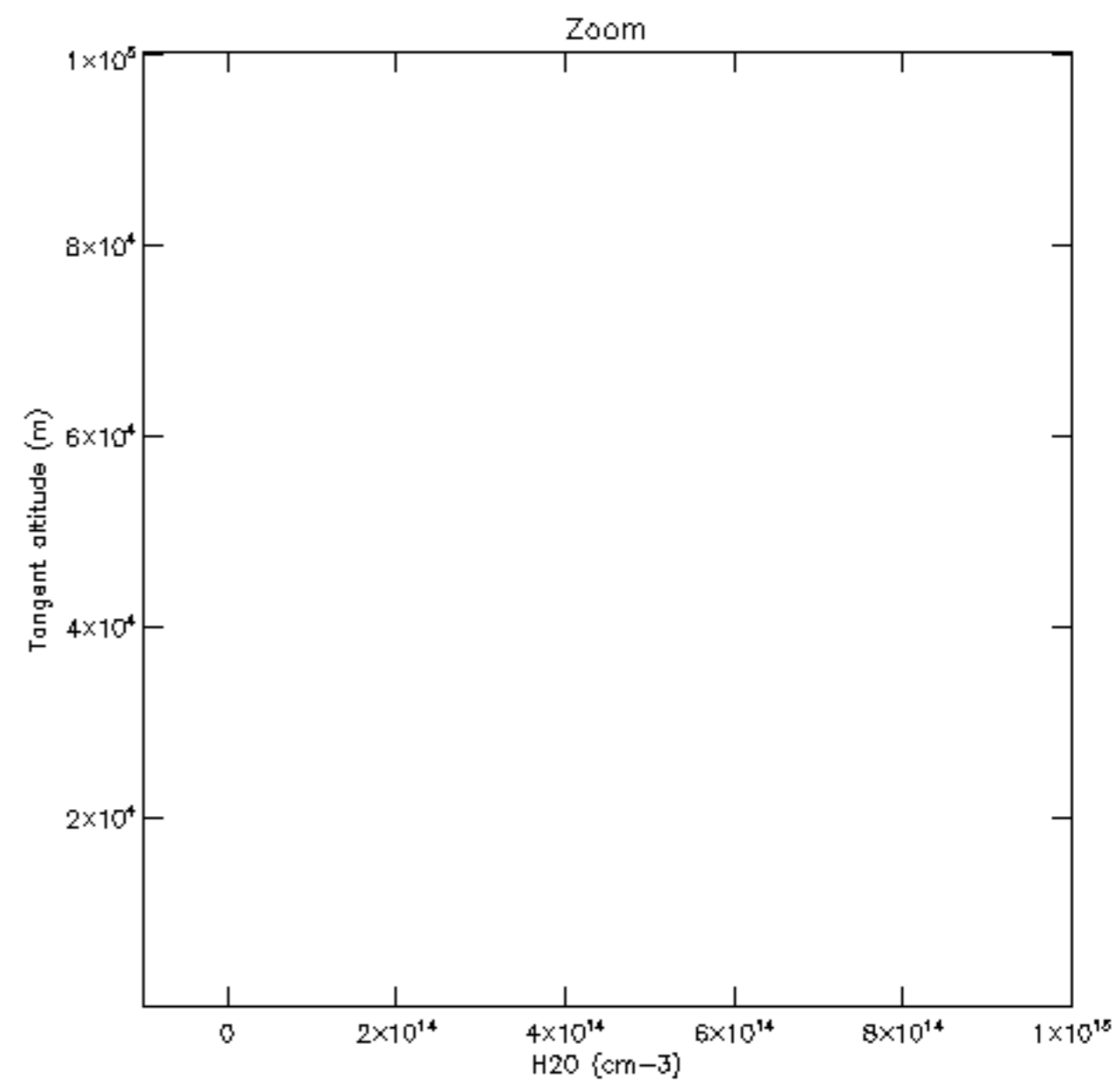
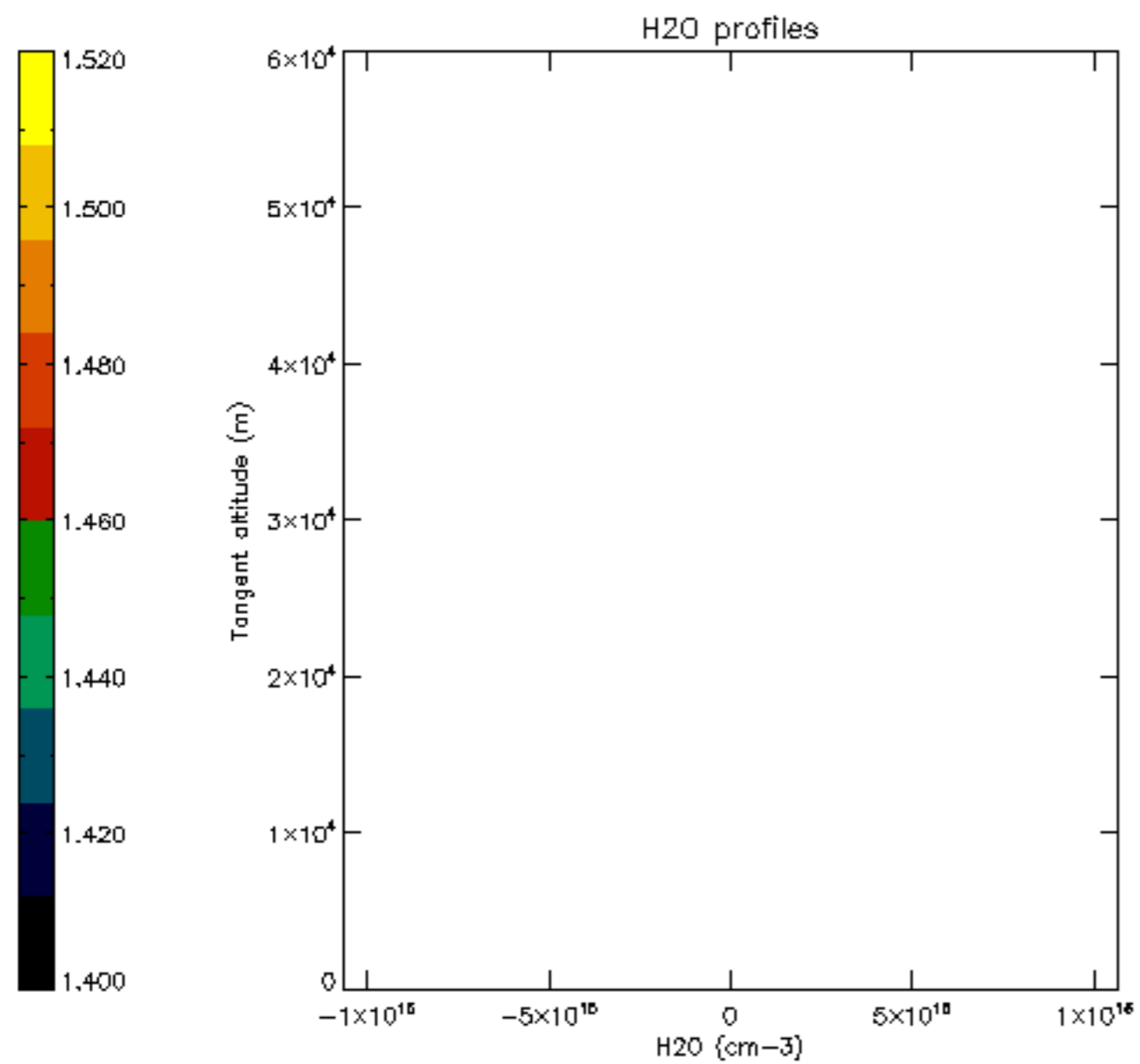


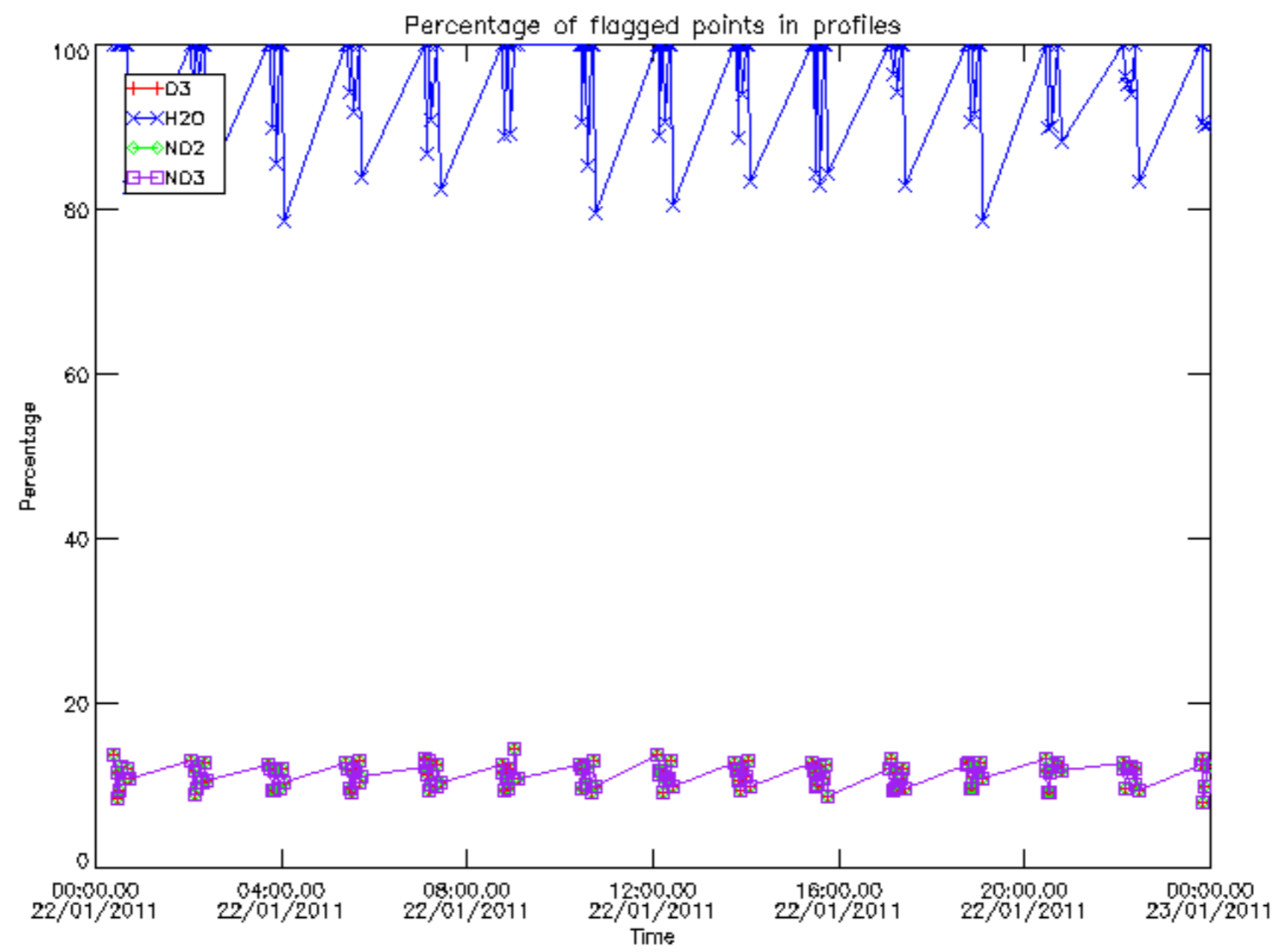




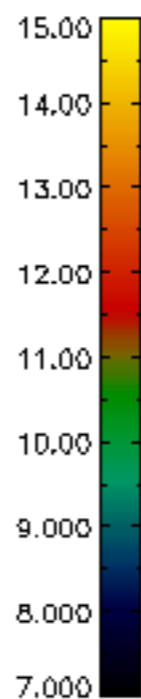
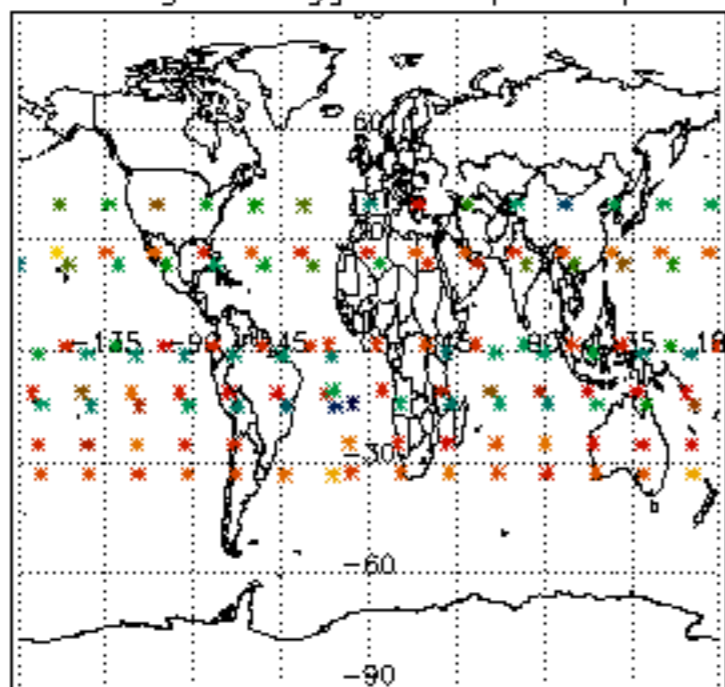




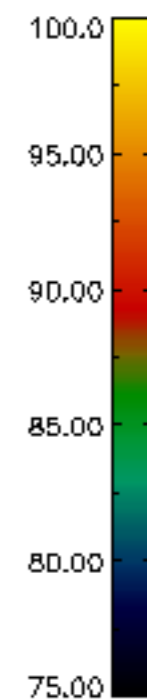
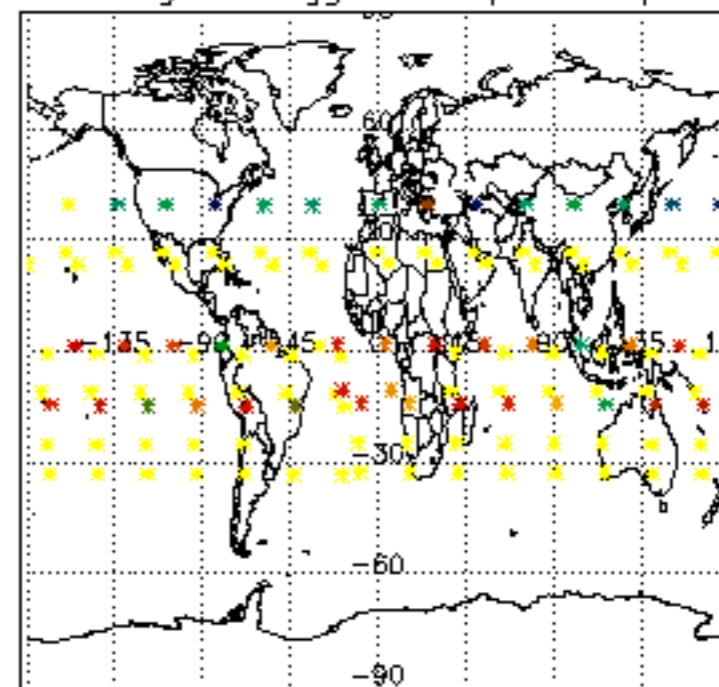




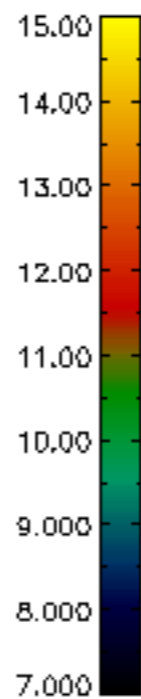
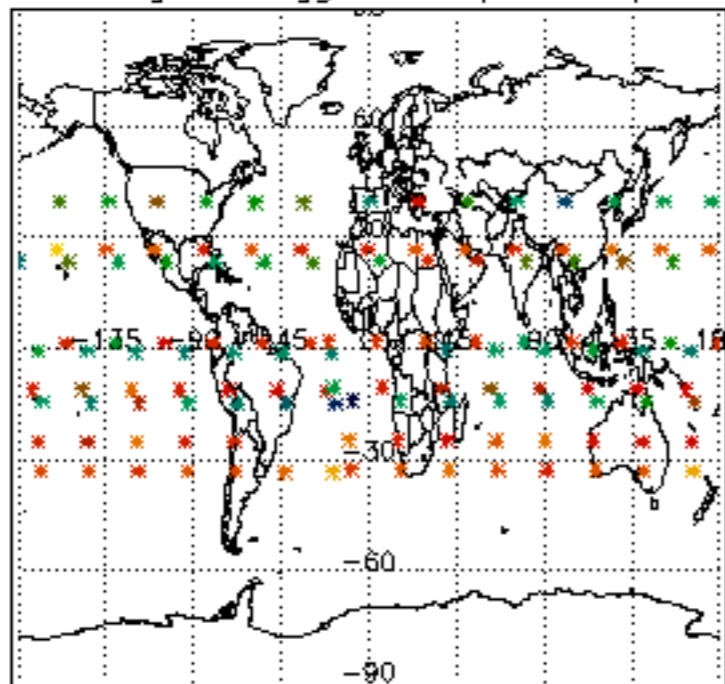
Percentage of flagged data per D3 profile



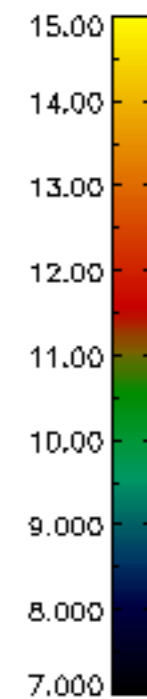
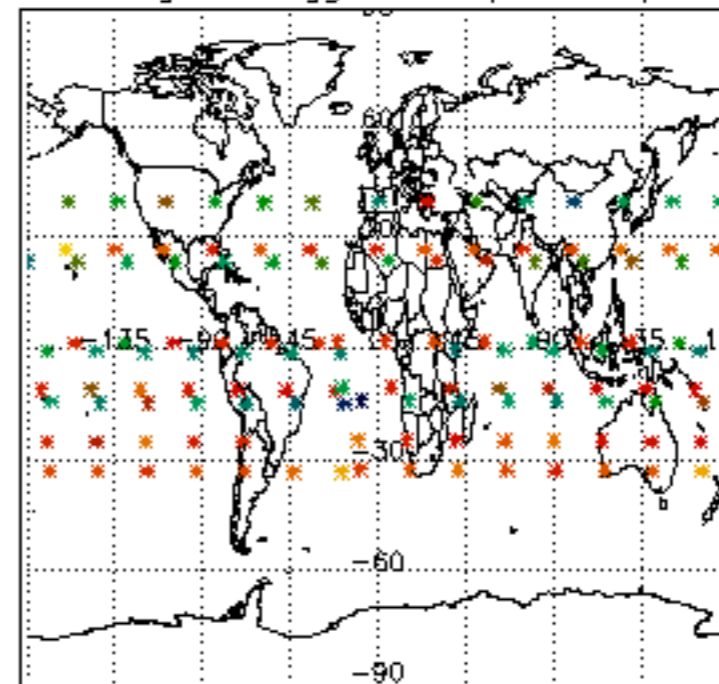
Percentage of flagged data per H2O profile

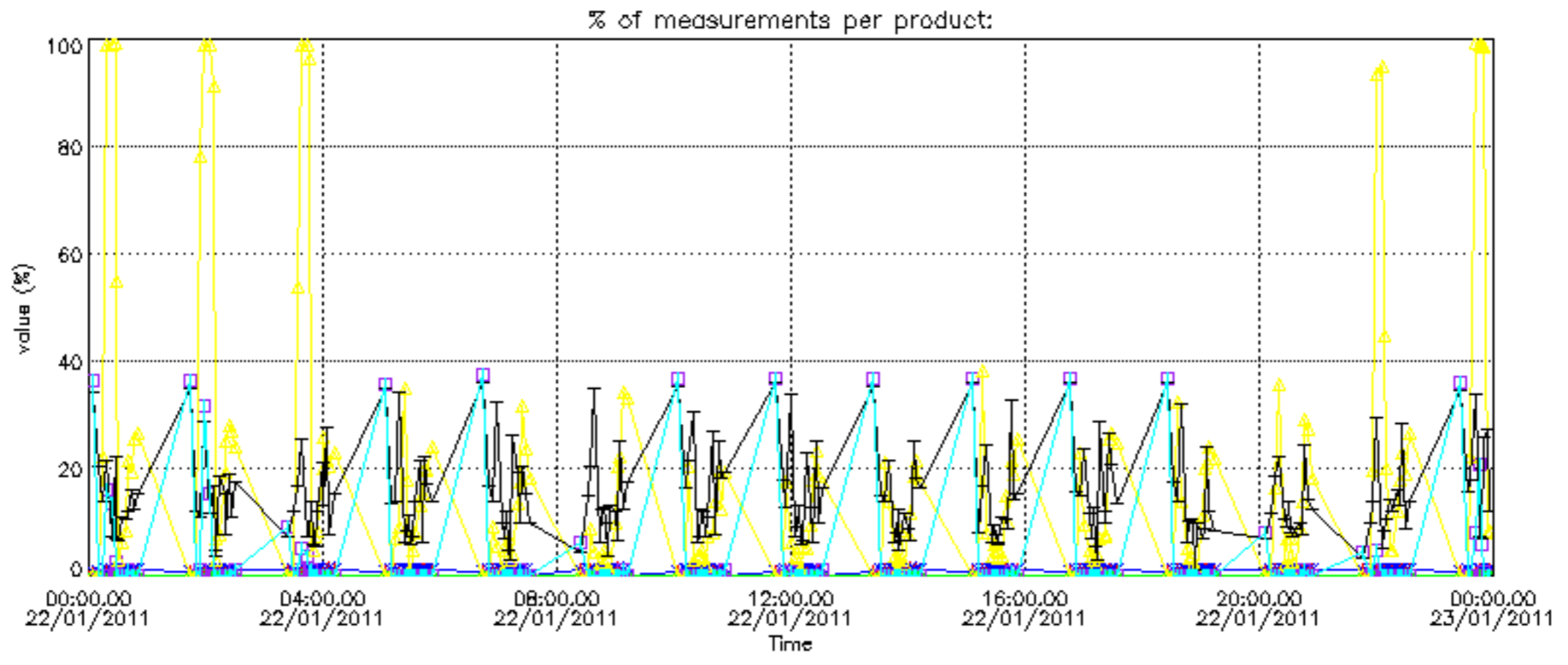


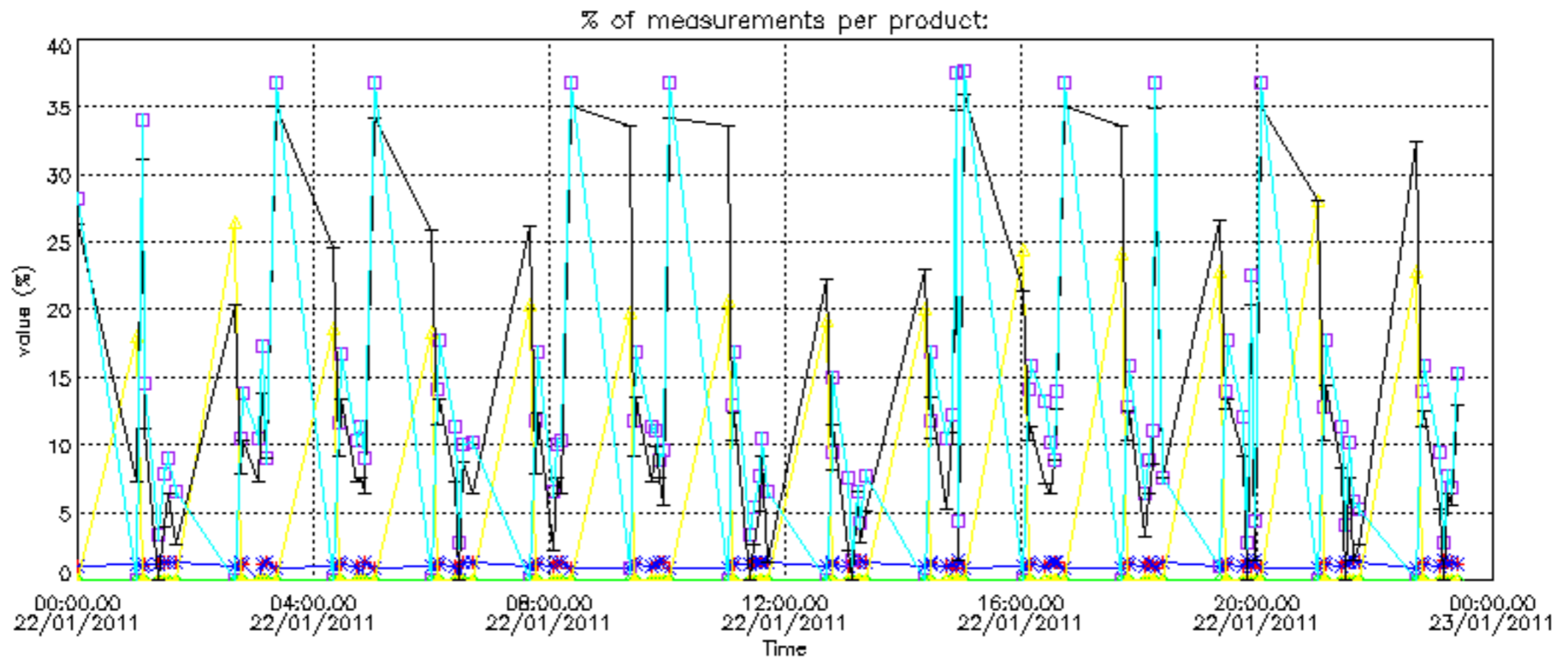
Percentage of flagged data per NO2 profile



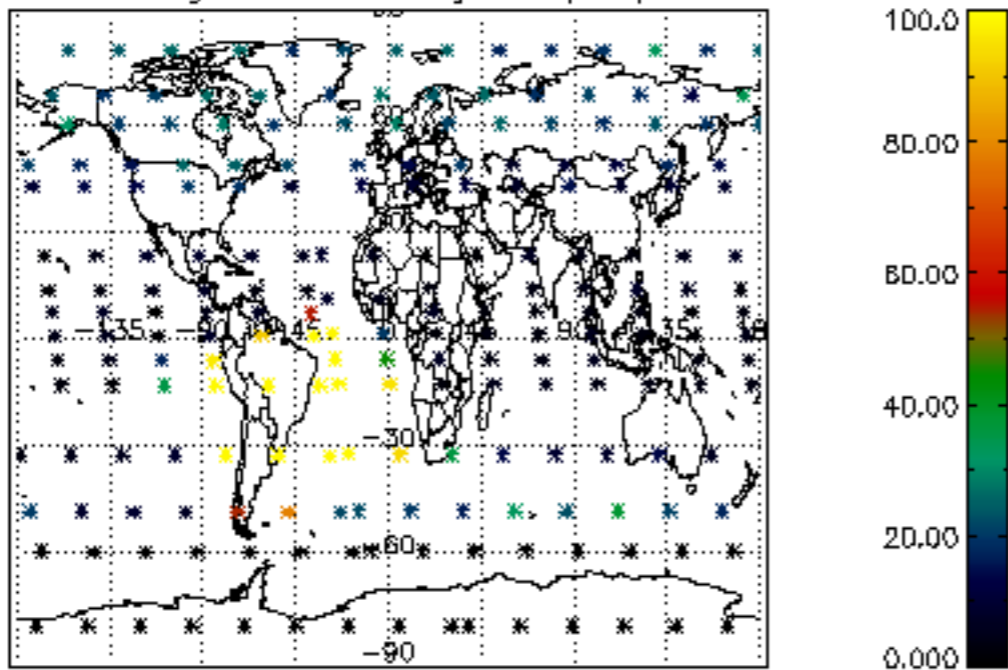
Percentage of flagged data per NO3 profile



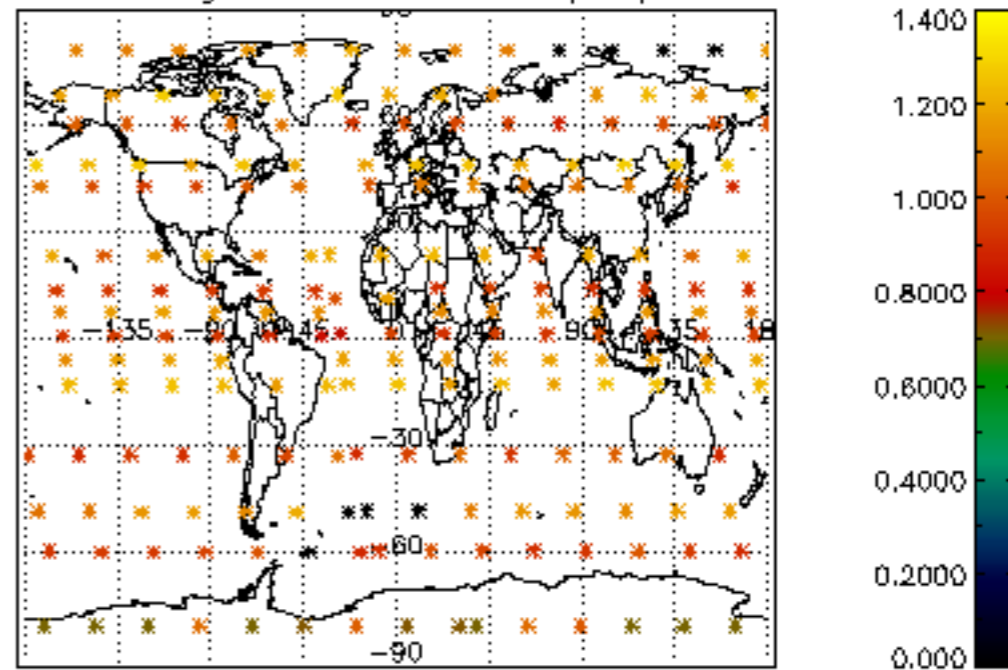




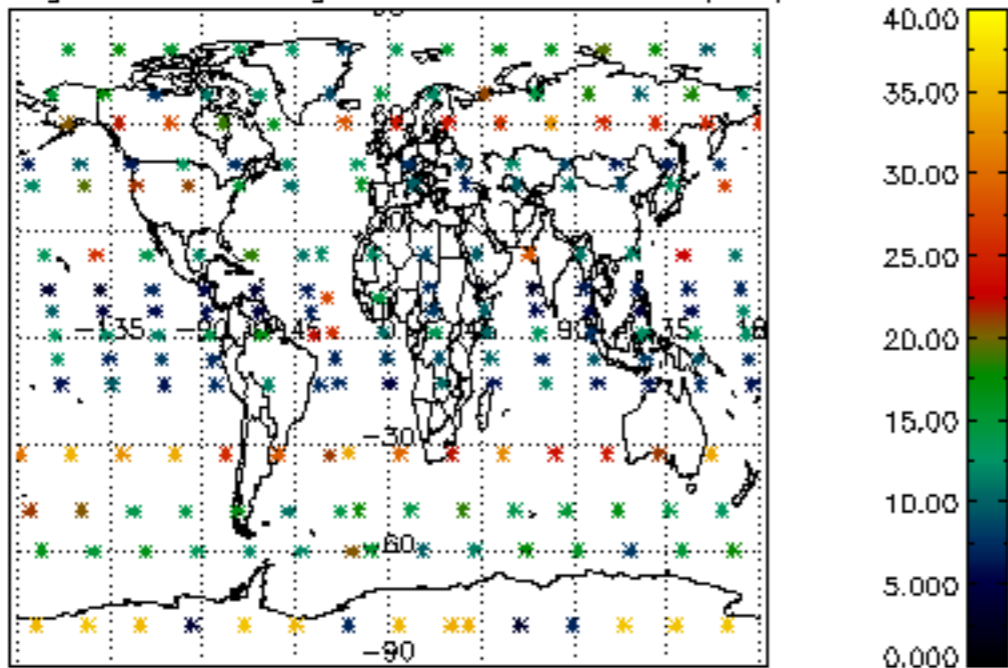
Percentage of cosmic ray hits per profile



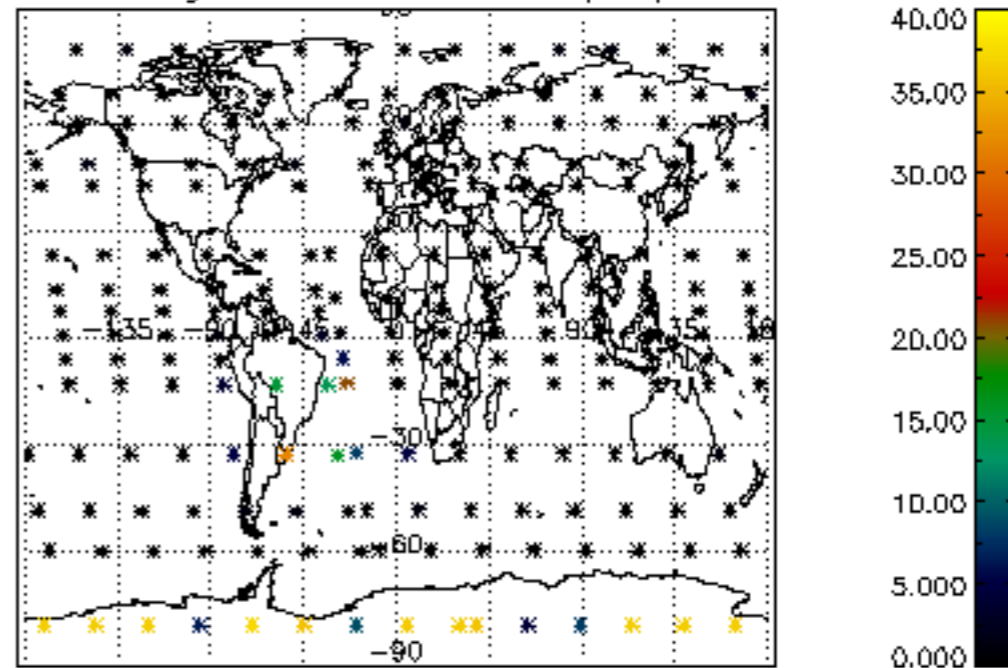
Percentage of datation errors per profile



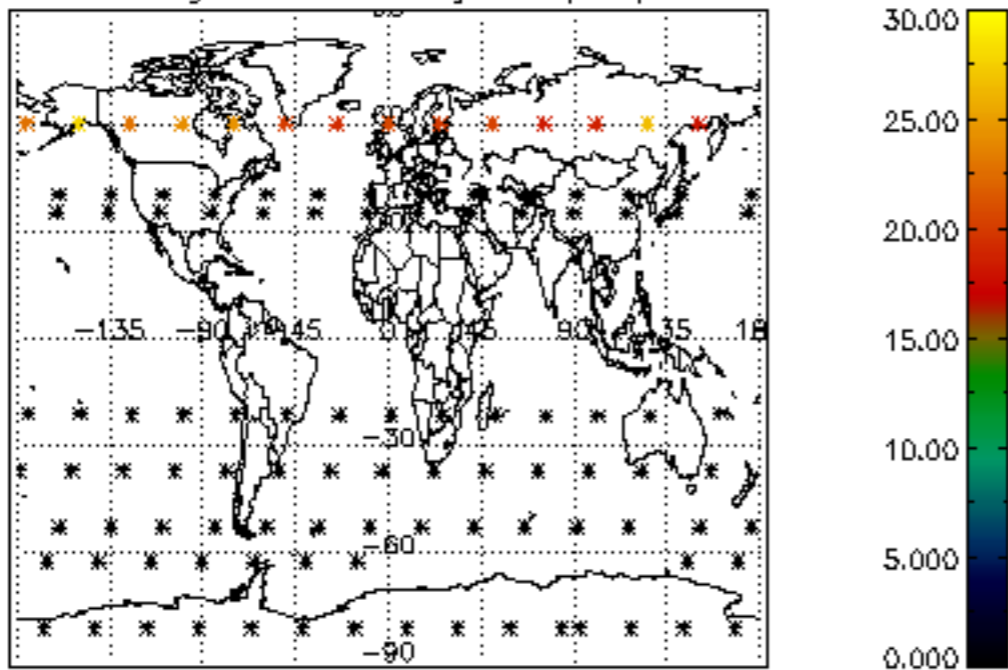
Percentage of star falling outside central band per profile



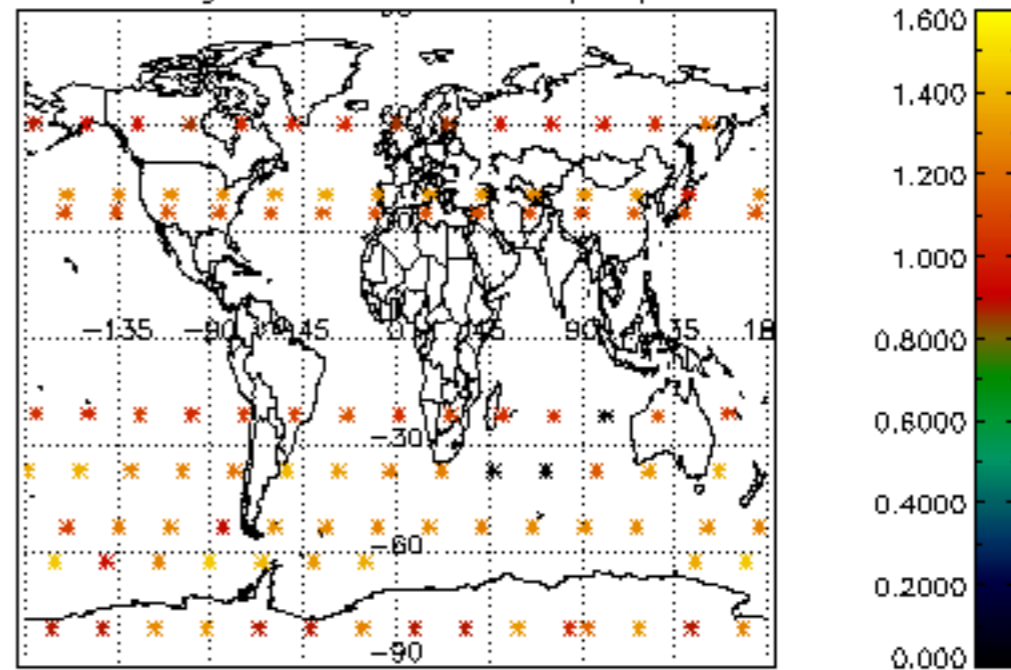
Percentage of saturation errors per profile



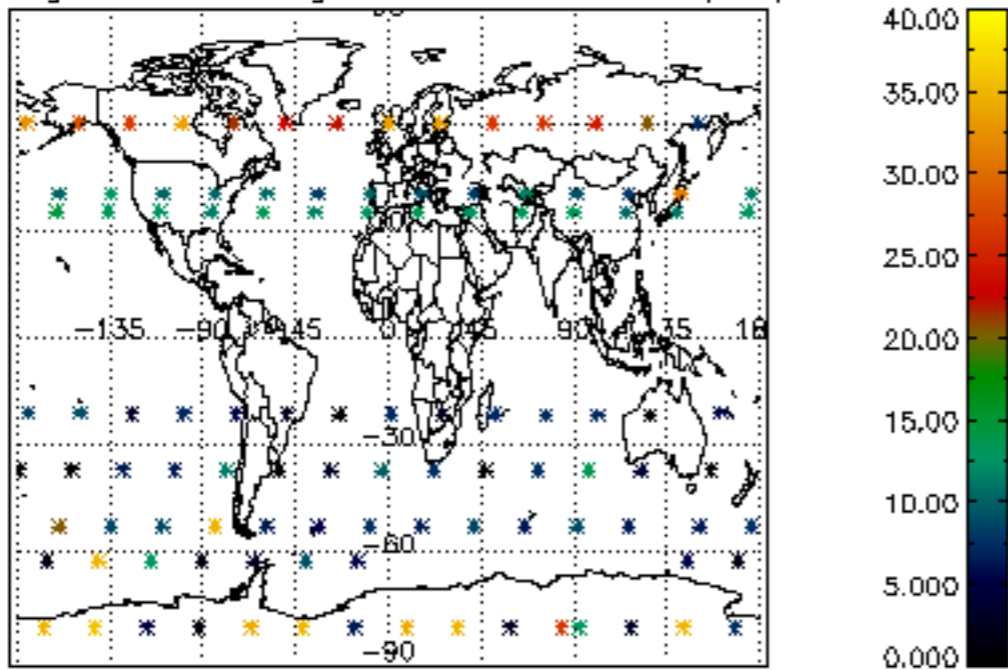
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

