

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Item	Value
Time of report generation	25APR2013 14:15:21
Data source version	GOMOS/6.01
Start time of products	15-05-2008 (15MAY2008 00:00:00)
Stop time of products	16-05-2008 (16MAY2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	325
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

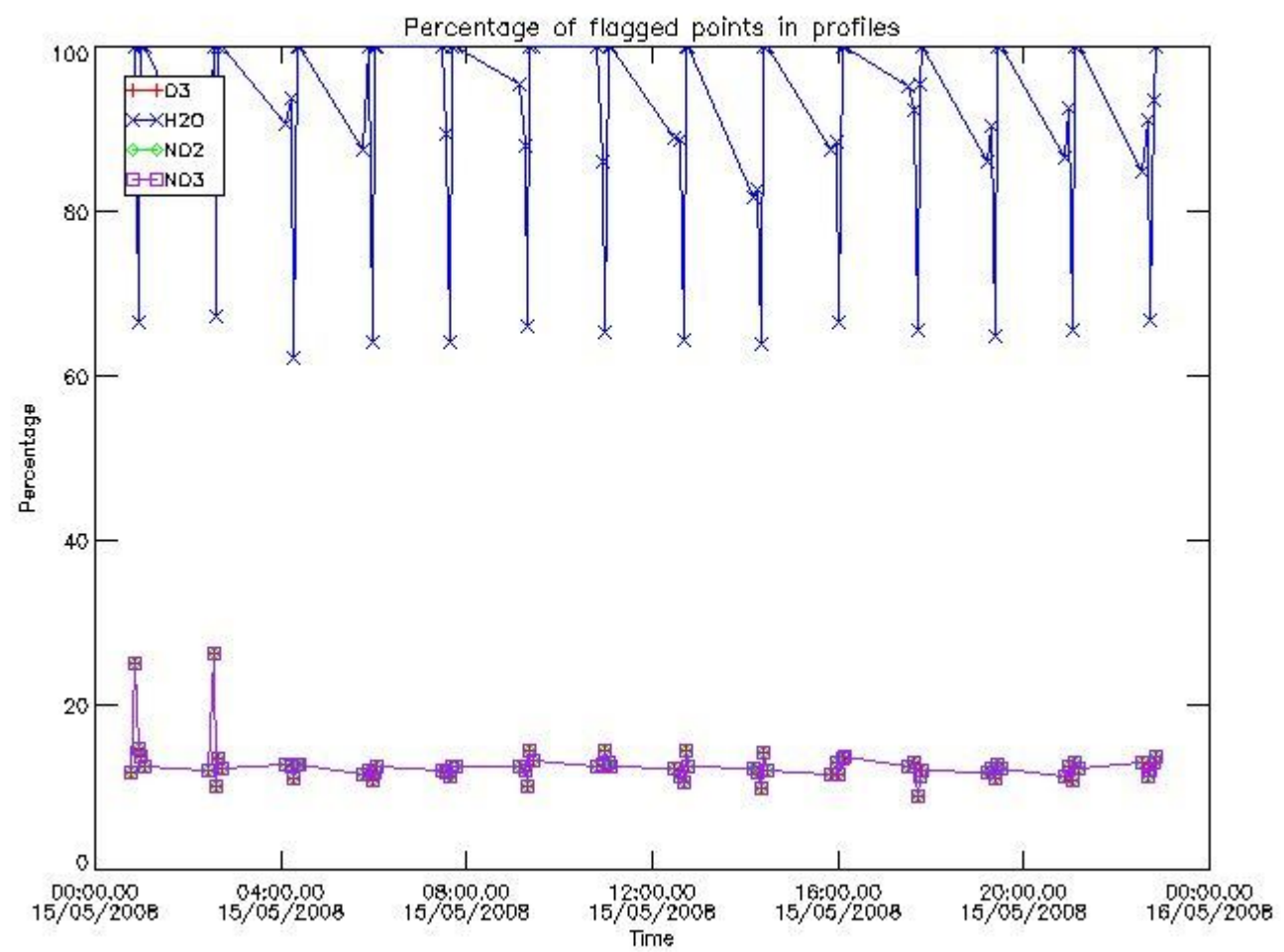
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20080515_000252_000000352068_00331_32449_0280.N1	15-MAY-2008 00:02:52	Bright	34.500	39	85Eta UMa	1.8540	24000.	69	32449	No
2	GOM_NL__2PRFIN20080515_000427_000000342068_00331_32449_0281.N1	15-MAY-2008 00:04:27	Bright	34.000	55	79Zet UMa	2.0600	10200.	68	32449	No
3	GOM_NL__2PRFIN20080515_001011_000000352068_00331_32449_0282.N1	15-MAY-2008 00:10:11	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	32449	No
4	GOM_NL__2PRFIN20080515_001432_000000322068_00331_32449_0283.N1	15-MAY-2008 00:14:32	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	32449	No
5	GOM_NL__2PRFIN20080515_002244_000000532068_00331_32449_0284.N1	15-MAY-2008 00:22:44	Bright	53.000	76	27Gam Cas	2.3000	30000.	106	32449	No
6	GOM_NL__2PRFIN20080515_002358_000000372068_00331_32449_0285.N1	15-MAY-2008 00:23:58	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	32449	No
7	GOM_NL__2PRFIN20080515_003627_000000422068_00331_32449_0286.N1	15-MAY-2008 00:36:27	Twilight	42.000	140	88Gam Peg	2.8340	26000.	84	32449	No
8	GOM_NL__2PRFIN20080515_004511_000000432068_00331_32449_0287.N1	15-MAY-2008 00:45:11	Dark	43.000	52	16Bet Cet	2.0370	4500.0	86	32449	No
9	GOM_NL__2PRFIN20080515_005200_000000412068_00331_32449_0288.N1	15-MAY-2008 00:52:00	Dark	40.500	84	Alp Phe	2.3970	4500.0	81	32449	No
10	GOM_NL__2PRFIN20080515_005601_000000562068_00331_32449_0289.N1	15-MAY-2008 00:56:01	Dark	55.500	63	Bet Gru	2.1500	2800.0	111	32449	No
11	GOM_NL__2PRFIN20080515_005917_000000372068_00332_32450_0280.N1	15-MAY-2008 00:59:17	Dark	37.000	148	Alp Tuc	2.8780	4100.0	74	32450	No
12	GOM_NL__2PRFIN20080515_010303_000000412068_00332_32450_0281.N1	15-MAY-2008 01:03:03	Dark	40.500	45	Alp Pav	1.9400	26000.	81	32450	No
13	GOM_NL__2PRFIN20080515_010827_000000462068_00332_32450_0282.N1	15-MAY-2008 01:08:27	Straylight	46.000	43	Alp TrA	1.9100	4250.0	92	32450	No
14	GOM_NL__2PRFIN20080515_011038_000000372068_00332_32450_0283.N1	15-MAY-2008 01:10:38	Straylight	36.500	134	Bet TrA	2.8100	6600.0	73	32450	No
15	GOM_NL__2PRFIN20080515_011221_000000432068_00332_32450_0284.N1	15-MAY-2008 01:12:21	Straylight	43.000	4	Alp1Cen	-0.010000	5800.0	86	32450	No
16	GOM_NL__2PRFIN20080515_011555_000000372068_00332_32450_0285.N1	15-MAY-2008 01:15:55	Straylight	36.500	78	Alp Lup	2.3040	28000.	73	32450	No
17	GOM_NL__2PRFIN20080515_011725_000000382068_00332_32450_0286.N1	15-MAY-2008 01:17:25	Tw_and_stray	37.500	81	Eta Cen	2.3560	28000.	75	32450	No
18	GOM_NL__2PRFIN20080515_011921_000000422068_00332_32450_0287.N1	15-MAY-2008 01:19:21	Tw_and_stray	42.000	54	5The Cen	2.0550	4500.0	84	32450	No
19	GOM_NL__2PRFIN20080515_012437_000000382068_00332_32450_0288.N1	15-MAY-2008 01:24:37	Bright	38.000	122	9Alp2Lib	2.7470	9700.0	76	32450	No
20	GOM_NL__2PRFIN20080515_012646_000000372068_00332_32450_0289.N1	15-MAY-2008 01:26:46	Bright	37.000	15	67Alp Vir	0.97600	28000.	74	32450	No
21	GOM_NL__2PRFIN20080515_013309_000000352068_00332_32450_0290.N1	15-MAY-2008 01:33:09	Bright	34.500	138	47Eps Vir	2.8280	4700.0	69	32450	No
22	GOM_NL__2PRFIN20080515_013444_000000352068_00332_32450_0291.N1	15-MAY-2008 01:34:44	Bright	34.500	111	8Eta Boo	2.6800	6000.0	69	32450	No
23	GOM_NL__2PRFIN20080515_014034_000000382068_00332_32450_0292.N1	15-MAY-2008 01:40:34	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	32450	No
24	GOM_NL__2PRFIN20080515_014328_000000352068_00332_32450_0293.N1	15-MAY-2008 01:43:28	Bright	35.000	39	85Eta UMa	1.8540	24000.	70	32450	No
25	GOM_NL__2PRFIN20080515_014503_000000372068_00332_32450_0294.N1	15-MAY-2008 01:45:03	Bright	36.500	55	79Zet UMa	2.0600	10200.	73	32450	No
26	GOM_NL__2PRFIN20080515_015046_000000332068_00332_32450_0295.N1	15-MAY-2008 01:50:46	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	32450	No
27	GOM_NL__2PRFIN20080515_015508_000000352068_00332_32450_0296.N1	15-MAY-2008 01:55:08	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	32450	No
28	GOM_NL__2PRFIN20080515_020320_000000382068_00332_32450_0297.N1	15-MAY-2008 02:03:20	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	32450	No
29	GOM_NL__2PRFIN20080515_020434_000000532068_00332_32450_0298.N1	15-MAY-2008 02:04:34	Bright	53.000	68	18Alp Cas	2.2250	4500.0	106	32450	No
30	GOM_NL__2PRFIN20080515_021704_000000422068_00332_32450_0299.N1	15-MAY-2008 02:17:04	Twilight	42.000	140	88Gam Peg	2.8340	26000.	84	32450	No
31	GOM_NL__2PRFIN20080515_022547_000000432068_00332_32450_0300.N1	15-MAY-2008 02:25:47	Dark	42.500	52	16Bet Cet	2.0370	4500.0	85	32450	No
32	GOM_NL__2PRFIN20080515_023236_000000412068_00332_32450_0301.N1	15-MAY-2008 02:32:36	Dark	40.500	84	Alp Phe	2.3970	4500.0	81	32450	No
33	GOM_NL__2PRFIN20080515_023638_000000562068_00332_32450_0302.N1	15-MAY-2008 02:36:38	Dark	55.500	63	Bet Gru	2.1500	2800.0	111	32450	No
34	GOM_NL__2PRFIN20080515_023954_000000382068_00333_32451_0288.N1	15-MAY-2008 02:39:54	Dark	38.000	148	Alp Tuc	2.8780	4100.0	76	32451	No
35	GOM_NL__2PRFIN20080515_024339_000000422068_00333_32451_0289.N1	15-MAY-2008 02:43:39	Dark	41.500	45	Alp Pav	1.9400	26000.	83	32451	No
36	GOM_NL__2PRFIN20080515_024903_000000392068_00333_32451_0290.N1	15-MAY-2008 02:49:03	Straylight	39.000	43	Alp TrA	1.9100	4250.0	78	32451	No
37	GOM_NL__2PRFIN20080515_025114_000000362068_00333_32451_0291.N1	15-MAY-2008 02:51:14	Straylight	36.000	134	Bet TrA	2.8100	6600.0	72	32451	No
38	GOM_NL__2PRFIN20080515_025257_000000422068_00333_32451_0292.N1	15-MAY-2008 02:52:57	Straylight	41.500	4	Alp1Cen	-0.010000	5800.0	83	32451	No
39	GOM_NL__2PRFIN20080515_025631_000000372068_00333_32451_0293.N1	15-MAY-2008 02:56:31	Straylight	37.000	78	Alp Lup	2.3040	28000.	74	32451	No
40	GOM_NL__2PRFIN20080515_025801_000000372068_00333_32451_0294.N1	15-MAY-2008 02:58:01	Tw_and_stray	37.000	81	Eta Cen	2.3560	28000.	74	32451	No
41	GOM_NL__2PRFIN20080515_025957_000000452068_00333_32451_0295.N1	15-MAY-2008 02:59:57	Tw_and_stray	45.000	54	5The Cen	2.0550	4500.0	90	32451	No
42	GOM_NL__2PRFIN20080515_030513_000000392068_00333_32451_0296.N1	15-MAY-2008 03:05:13	Bright	38.500	122	9Alp2Lib	2.7470	9700.0	77	32451	No

279	GOM_NL__2PRFIN20080515_202143_000000362068_00343_32461_0476.N1	15-MAY-2008 20:21:43	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	32461	No
280	GOM_NL__2PRFIN20080515_202955_000000502068_00343_32461_0477.N1	15-MAY-2008 20:29:55	Bright	49.500	76	27Gam Cas	2.3000	30000.	99	32461	No
281	GOM_NL__2PRFIN20080515_203109_000000362068_00343_32461_0478.N1	15-MAY-2008 20:31:09	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	32461	No
282	GOM_NL__2PRFIN20080515_205226_000000452068_00343_32461_0479.N1	15-MAY-2008 20:52:26	Dark	45.000	52	16Bet Cet	2.0370	4500.0	90	32461	No
283	GOM_NL__2PRFIN20080515_205915_000000412068_00343_32461_0480.N1	15-MAY-2008 20:59:15	Dark	40.500	84	Alp Phe	2.3970	4500.0	81	32461	No
284	GOM_NL__2PRFIN20080515_210320_000000472068_00343_32461_0481.N1	15-MAY-2008 21:03:20	Dark	47.000	63	Bet Gru	2.1500	2800.0	94	32461	No
285	GOM_NL__2PRFIN20080515_210634_000000392068_00344_32462_0475.N1	15-MAY-2008 21:06:34	Dark	39.000	148	Alp Tuc	2.8780	4100.0	78	32462	No
286	GOM_NL__2PRFIN20080515_211022_000000422068_00344_32462_0476.N1	15-MAY-2008 21:10:22	Dark	41.500	45	Alp Pav	1.9400	26000.	83	32462	No
287	GOM_NL__2PRFIN20080515_211542_000000392068_00344_32462_0477.N1	15-MAY-2008 21:15:42	Straylight	38.500	43	Alp TrA	1.9100	4250.0	77	32462	No
288	GOM_NL__2PRFIN20080515_211752_000000402068_00344_32462_0478.N1	15-MAY-2008 21:17:52	Straylight	39.500	134	Bet TrA	2.8100	6600.0	79	32462	No
289	GOM_NL__2PRFIN20080515_211934_000000512068_00344_32462_0479.N1	15-MAY-2008 21:19:34	Straylight	50.500	4	Alp1Cen	-0.010000	5800.0	101	32462	No
290	GOM_NL__2PRFIN20080515_212309_000000372068_00344_32462_0480.N1	15-MAY-2008 21:23:09	Straylight	37.000	78	Alp Lup	2.3040	28000.	74	32462	No
291	GOM_NL__2PRFIN20080515_212439_000000402068_00344_32462_0481.N1	15-MAY-2008 21:24:39	Twi_and_stray	39.500	81	Eta Cen	2.3560	28000.	79	32462	No
292	GOM_NL__2PRFIN20080515_212634_000000412068_00344_32462_0482.N1	15-MAY-2008 21:26:34	Twi_and_stray	41.000	54	5The Cen	2.0550	4500.0	82	32462	No
293	GOM_NL__2PRFIN20080515_213150_000000382068_00344_32462_0483.N1	15-MAY-2008 21:31:50	Bright	38.000	122	9Alp2Lib	2.7470	9700.0	76	32462	No
294	GOM_NL__2PRFIN20080515_213359_000000382068_00344_32462_0484.N1	15-MAY-2008 21:33:59	Bright	37.500	15	67Alp Vir	0.97600	28000.	75	32462	No
295	GOM_NL__2PRFIN20080515_214023_000000352068_00344_32462_0485.N1	15-MAY-2008 21:40:23	Bright	35.000	138	47Eps Vir	2.8280	4700.0	70	32462	No
296	GOM_NL__2PRFIN20080515_214156_000000352068_00344_32462_0486.N1	15-MAY-2008 21:41:56	Bright	35.000	111	8Eta Boo	2.6800	6000.0	70	32462	No
297	GOM_NL__2PRFIN20080515_214744_000000362068_00344_32462_0487.N1	15-MAY-2008 21:47:44	Bright	35.500	180	27Gam Boo	3.0400	8000.0	71	32462	No
298	GOM_NL__2PRFIN20080515_215039_000000362068_00344_32462_0488.N1	15-MAY-2008 21:50:39	Bright	35.500	39	85Eta UMa	1.8540	24000.	71	32462	No
299	GOM_NL__2PRFIN20080515_215215_000000362068_00344_32462_0489.N1	15-MAY-2008 21:52:15	Bright	36.000	55	79Zet UMa	2.0600	10200.	72	32462	No
300	GOM_NL__2PRFIN20080515_215756_000000392068_00344_32462_0490.N1	15-MAY-2008 21:57:56	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	32462	No
301	GOM_NL__2PRFIN20080515_220219_000000362068_00344_32462_0491.N1	15-MAY-2008 22:02:19	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	32462	No
302	GOM_NL__2PRFIN20080515_221031_000000402068_00344_32462_0492.N1	15-MAY-2008 22:10:31	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	32462	No
303	GOM_NL__2PRFIN20080515_221145_000000352068_00344_32462_0493.N1	15-MAY-2008 22:11:45	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	32462	No
304	GOM_NL__2PRFIN20080515_223302_000000432068_00344_32462_0494.N1	15-MAY-2008 22:33:02	Dark	42.500	52	16Bet Cet	2.0370	4500.0	85	32462	No
305	GOM_NL__2PRFIN20080515_223951_000000452068_00344_32462_0495.N1	15-MAY-2008 22:39:51	Dark	45.000	84	Alp Phe	2.3970	4500.0	90	32462	No
306	GOM_NL__2PRFIN20080515_224357_000000432068_00344_32462_0496.N1	15-MAY-2008 22:43:57	Dark	42.500	63	Bet Gru	2.1500	2800.0	85	32462	No
307	GOM_NL__2PRFIN20080515_224711_000000392068_00345_32463_0494.N1	15-MAY-2008 22:47:11	Dark	39.000	148	Alp Tuc	2.8780	4100.0	78	32463	No
308	GOM_NL__2PRFIN20080515_225059_000000412068_00345_32463_0495.N1	15-MAY-2008 22:50:59	Dark	40.500	45	Alp Pav	1.9400	26000.	81	32463	No
309	GOM_NL__2PRFIN20080515_225618_000000392068_00345_32463_0496.N1	15-MAY-2008 22:56:18	Straylight	38.500	43	Alp TrA	1.9100	4250.0	77	32463	No
310	GOM_NL__2PRFIN20080515_225828_000000372068_00345_32463_0497.N1	15-MAY-2008 22:58:28	Straylight	37.000	134	Bet TrA	2.8100	6600.0	74	32463	No
311	GOM_NL__2PRFIN20080515_230010_000000502068_00345_32463_0498.N1	15-MAY-2008 23:00:10	Straylight	49.500	4	Alp1Cen	-0.010000	5800.0	99	32463	No
312	GOM_NL__2PRFIN20080515_230345_000000382068_00345_32463_0499.N1	15-MAY-2008 23:03:45	Straylight	37.500	78	Alp Lup	2.3040	28000.	75	32463	No
313	GOM_NL__2PRFIN20080515_230515_000000382068_00345_32463_0500.N1	15-MAY-2008 23:05:15	Twi_and_stray	38.000	81	Eta Cen	2.3560	28000.	76	32463	No
314	GOM_NL__2PRFIN20080515_230710_000000412068_00345_32463_0501.N1	15-MAY-2008 23:07:10	Twi_and_stray	41.000	54	5The Cen	2.0550	4500.0	82	32463	No
315	GOM_NL__2PRFIN20080515_231226_000000382068_00345_32463_0502.N1	15-MAY-2008 23:12:26	Bright	38.000	122	9Alp2Lib	2.7470	9700.0	76	32463	No
316	GOM_NL__2PRFIN20080515_231435_000000382068_00345_32463_0503.N1	15-MAY-2008 23:14:35	Bright	37.500	15	67Alp Vir	0.97600	28000.	75	32463	No
317	GOM_NL__2PRFIN20080515_232100_000000352068_00345_32463_0504.N1	15-MAY-2008 23:21:00	Bright	35.000	138	47Eps Vir	2.8280	4700.0	70	32463	No
318	GOM_NL__2PRFIN20080515_232232_000000352068_00345_32463_0505.N1	15-MAY-2008 23:22:32	Bright	35.000	111	8Eta Boo	2.6800	6000.0	70	32463	No
319	GOM_NL__2PRFIN20080515_232819_000000362068_00345_32463_0506.N1	15-MAY-2008 23:28:19	Bright	36.000	180	27Gam Boo	3.0400	8000.0	72	32463	No
320	GOM_NL__2PRFIN20080515_233115_000000362068_00345_32463_0507.N1	15-MAY-2008 23:31:15	Bright	35.500	39	85Eta UMa	1.8540	24000.	71	32463	No
321	GOM_NL__2PRFIN20080515_233251_000000352068_00345_32463_0508.N1	15-MAY-2008 23:32:51	Bright	35.000	55	79Zet UMa	2.0600	10200.	70	32463	No
322	GOM_NL__2PRFIN20080515_233832_000000392068_00345_32463_0509.N1	15-MAY-2008 23:38:32	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	32463	No
323	GOM_NL__2PRFIN20080515_234255_000000362068_00345_32463_0510.N1	15-MAY-2008 23:42:55	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	32463	No
324	GOM_NL__2PRFIN20080515_235107_000000342068_00345_32463_0511.N1	15-MAY-2008 23:51:07	Bright	33.500	76	27Gam Cas	2.3000	30000.	67	32463	No
325	GOM_NL__2PRFIN20080515_235221_000000362068_00345_32463_0512.N1	15-MAY-2008 23:52:21	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	32463	No

3. Quality information per product

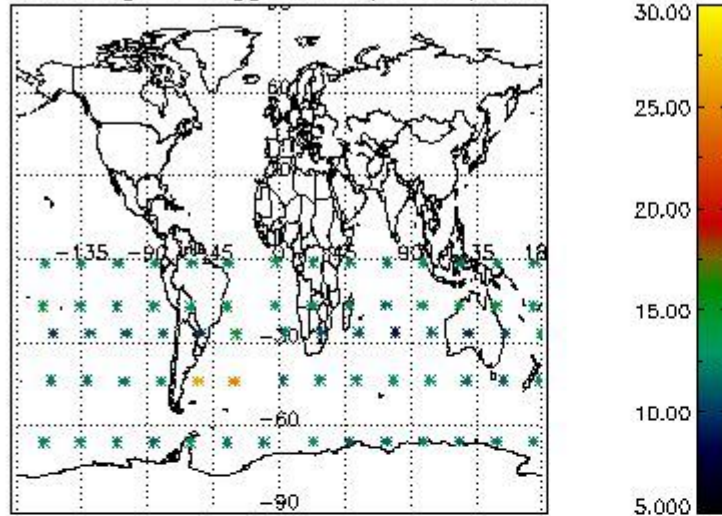
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

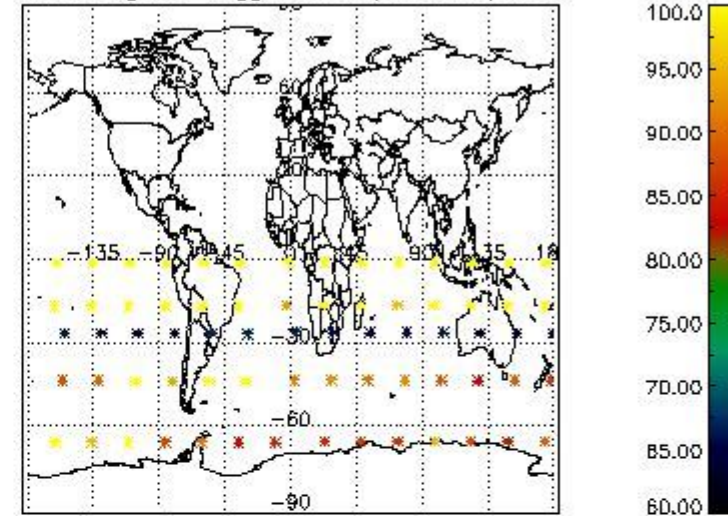


3.2 Plot quality information per product (world map)

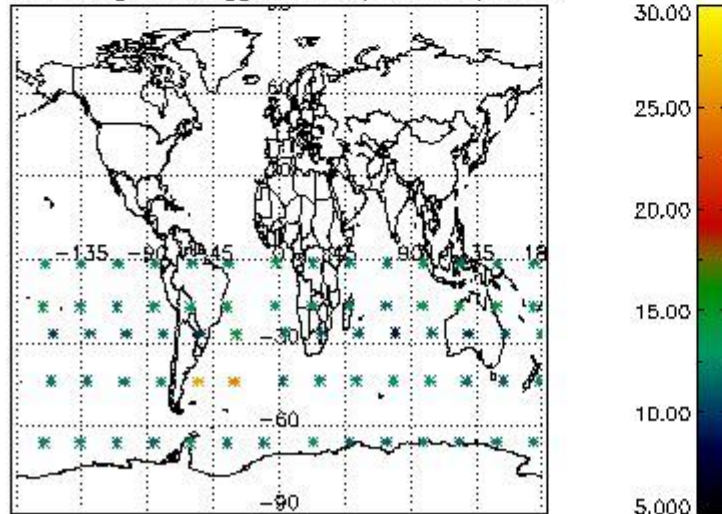
Percentage of flagged data per O3 profile



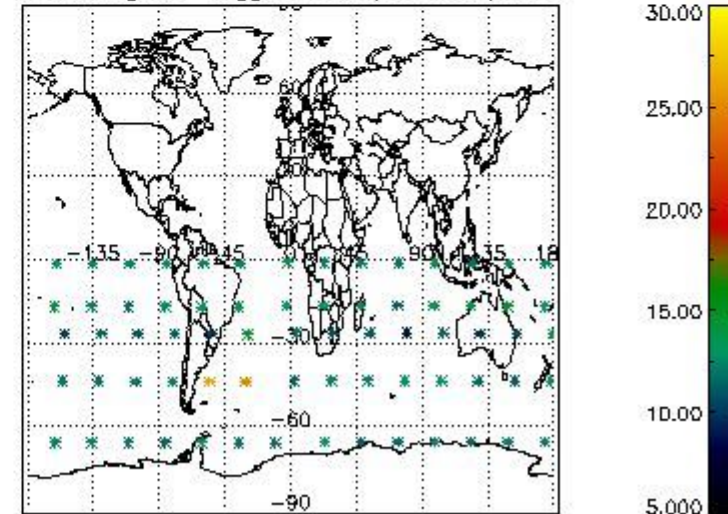
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

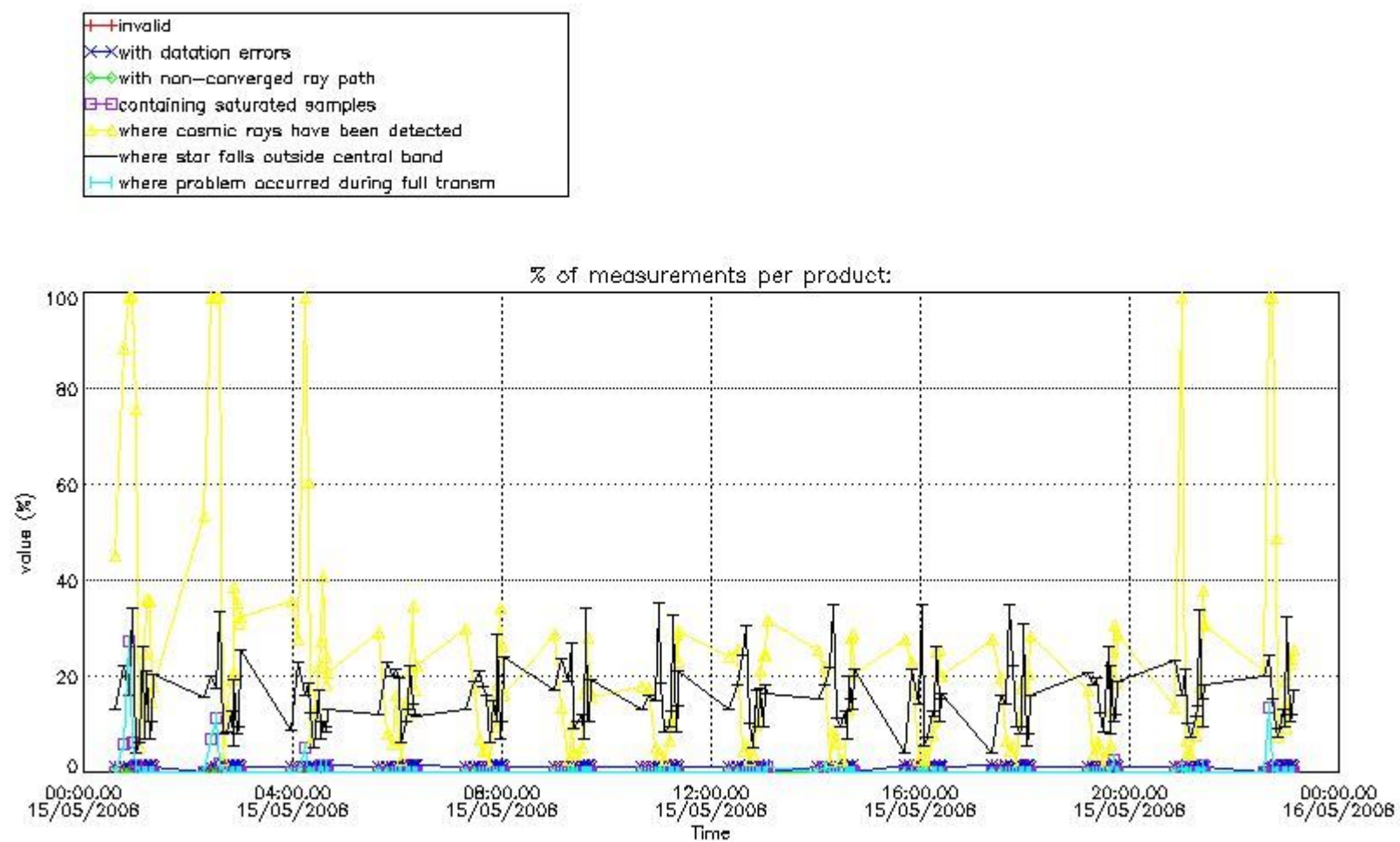


4. Level 1 quality information per product

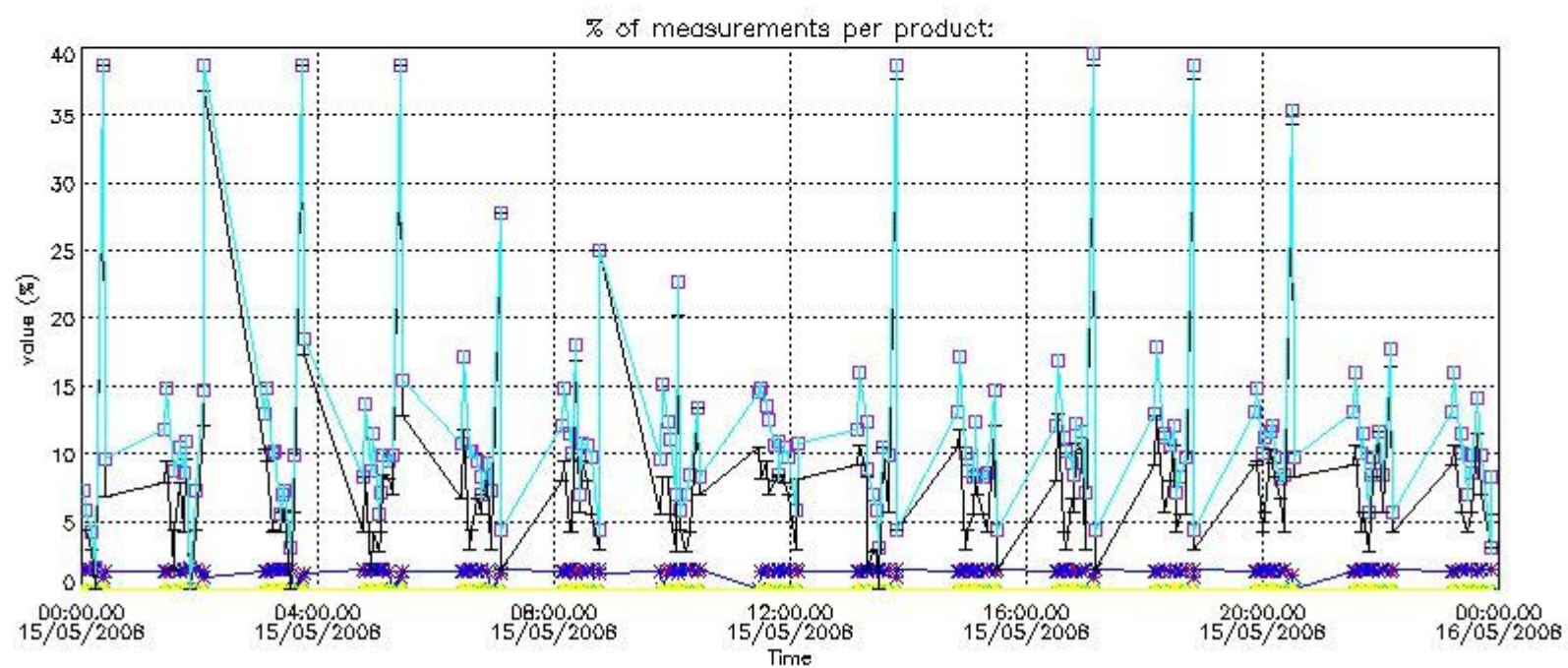
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



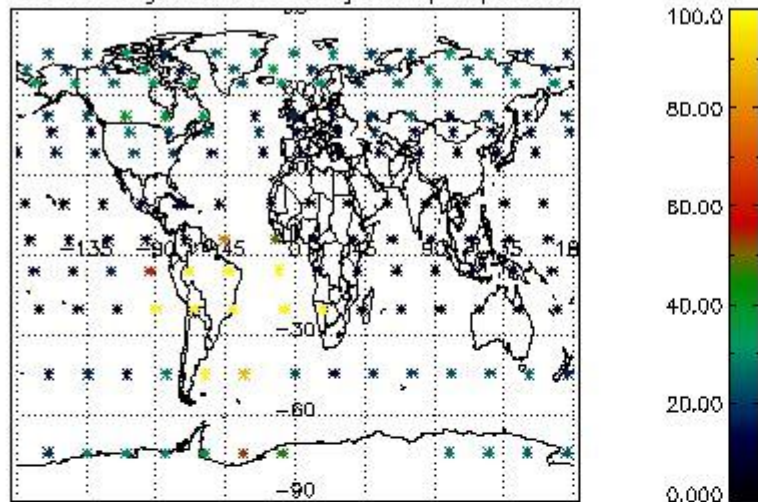
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



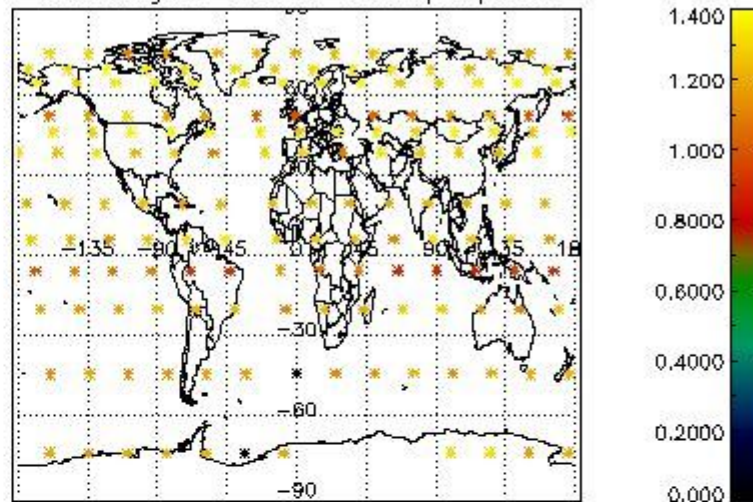
4.2 Plot quality information per product coming from level 1b processing (world map)

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

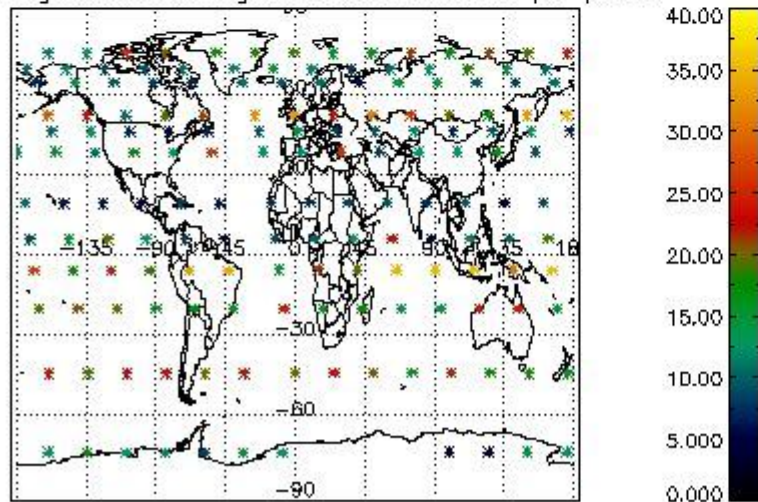
Percentage of cosmic ray hits per profile



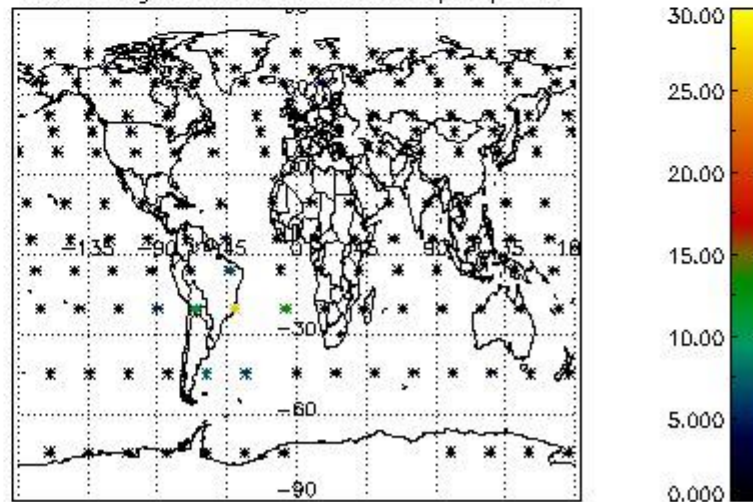
Percentage of datation errors per profile



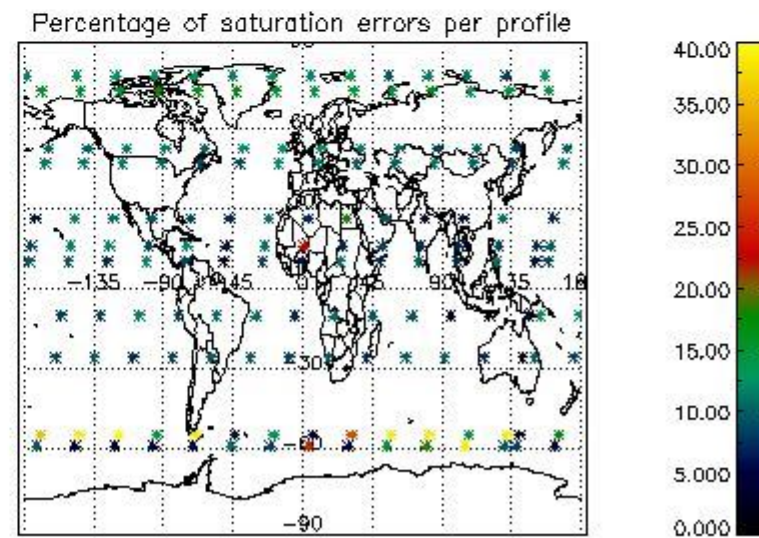
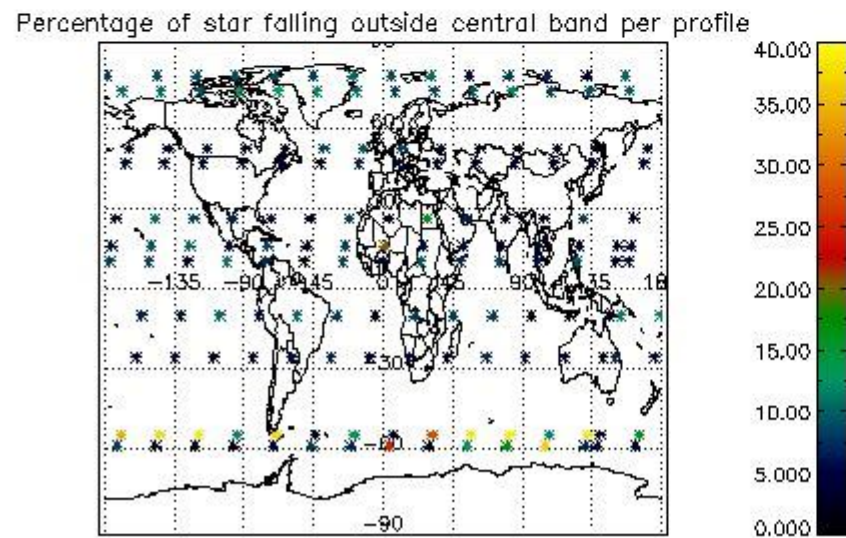
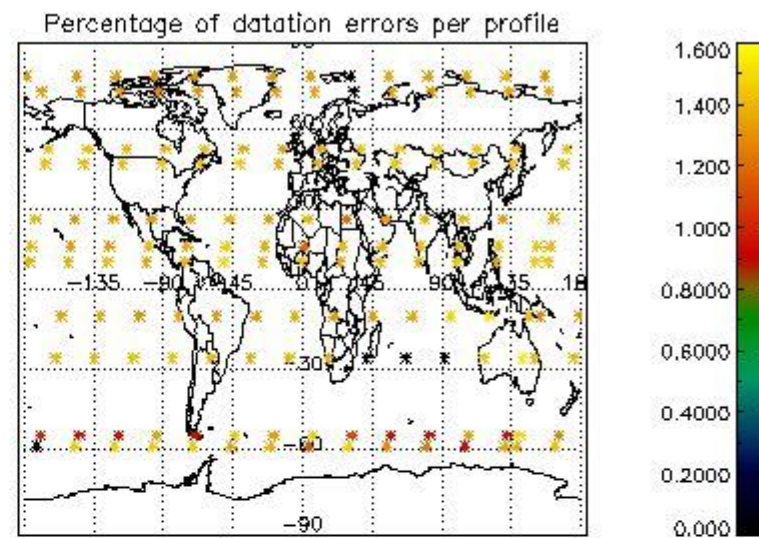
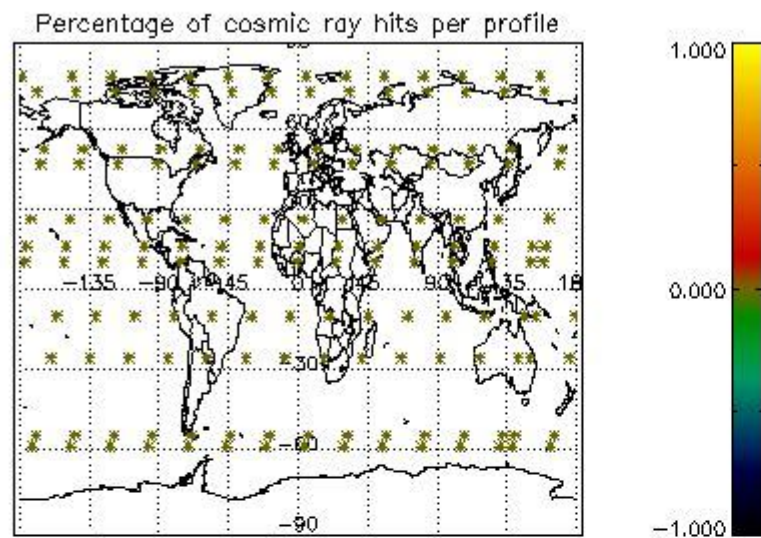
Percentage of star falling outside central band per profile



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

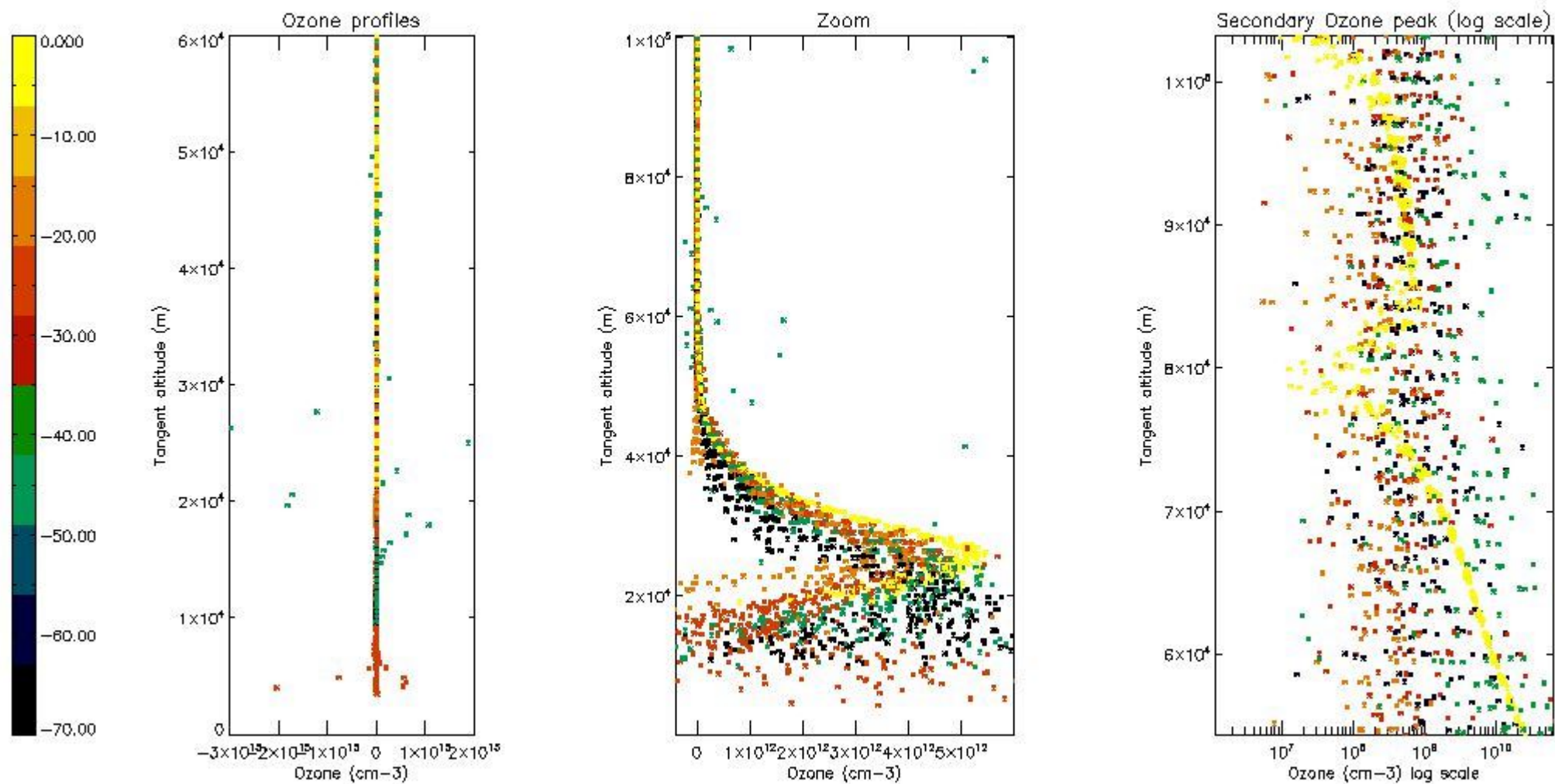
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	24
STD < 20	8

STD < 10	4
STD < 5	3

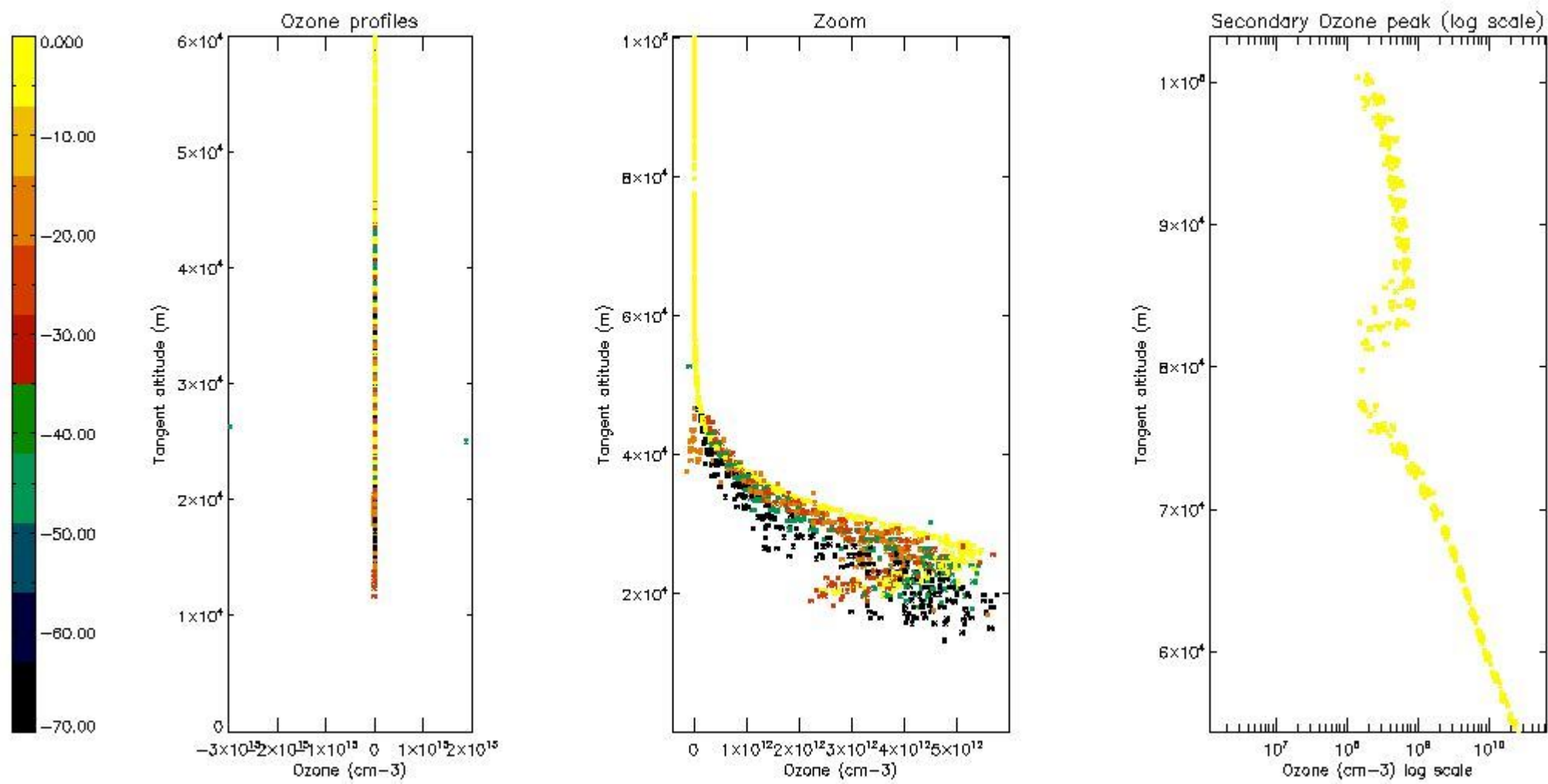
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



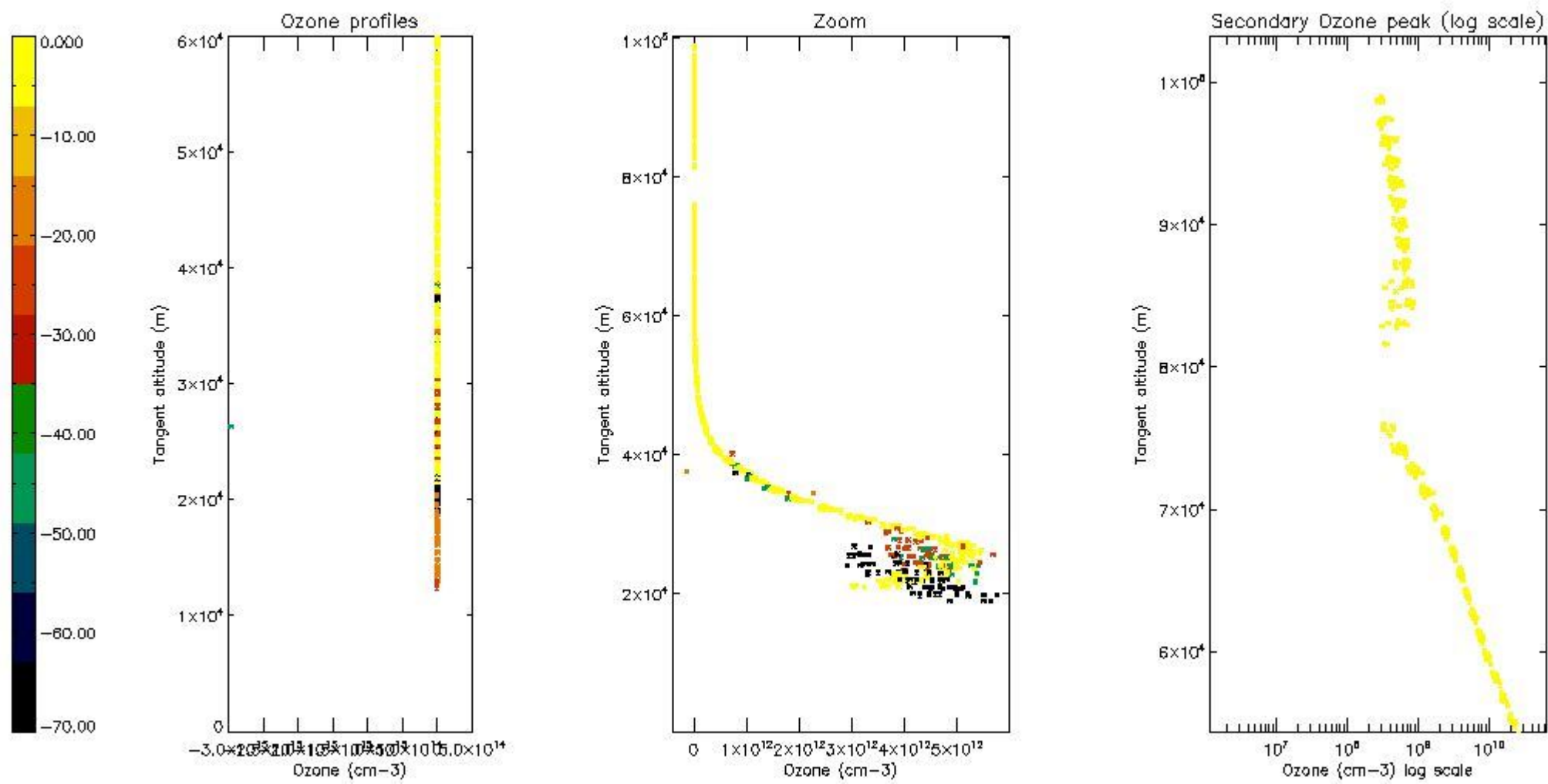
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



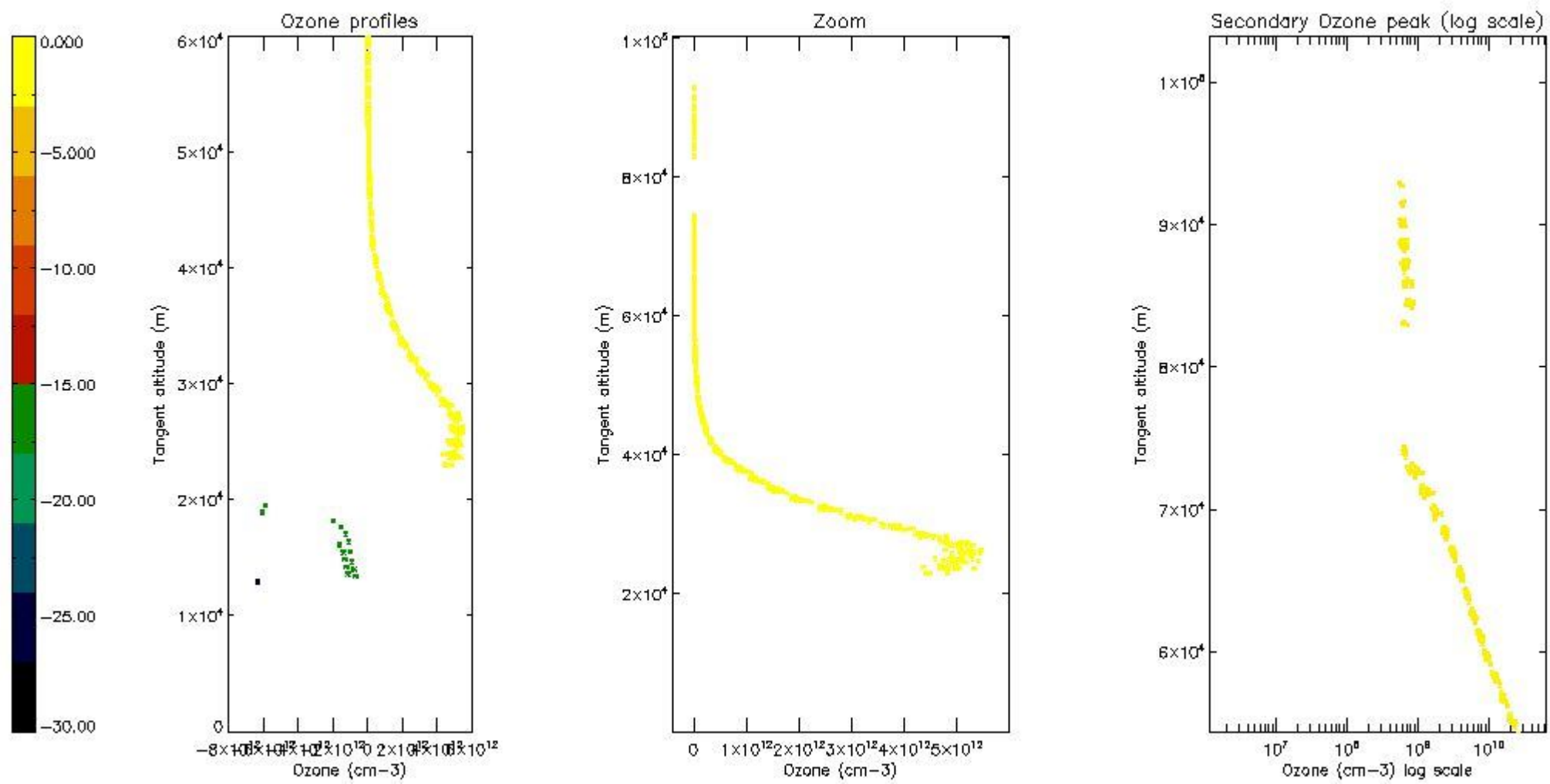
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



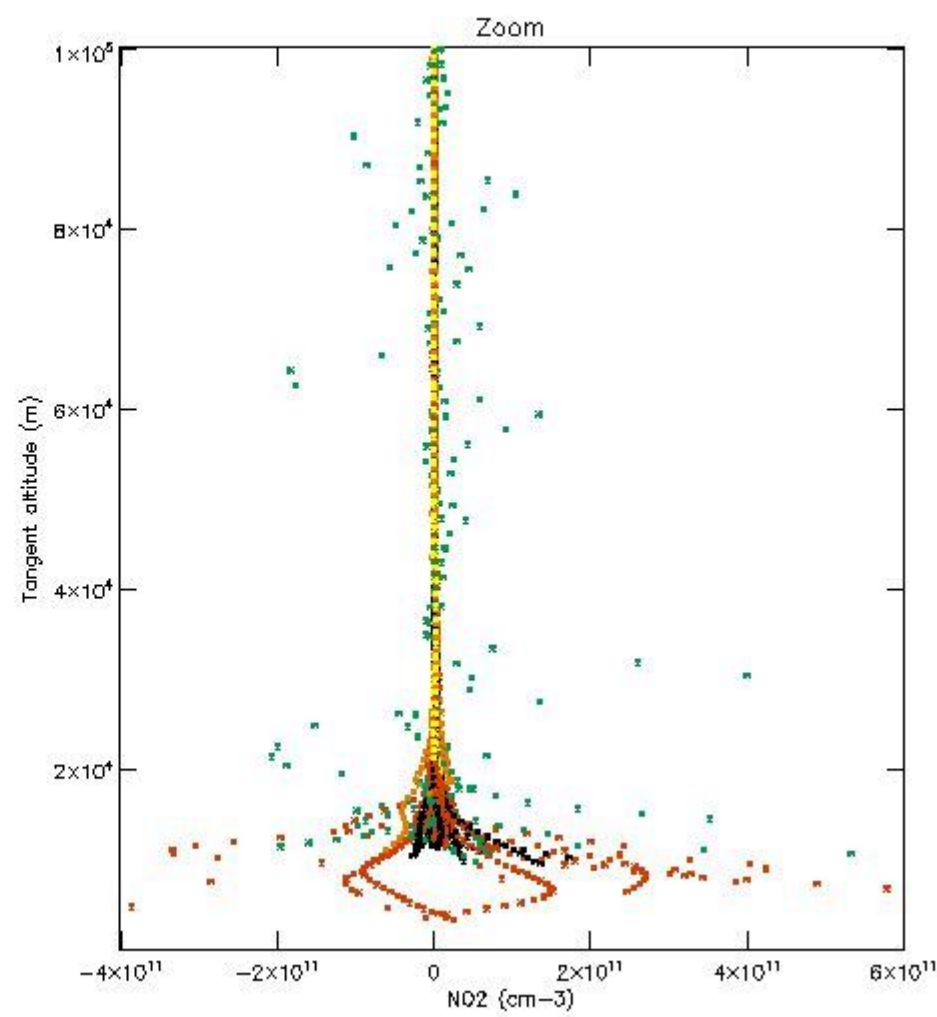
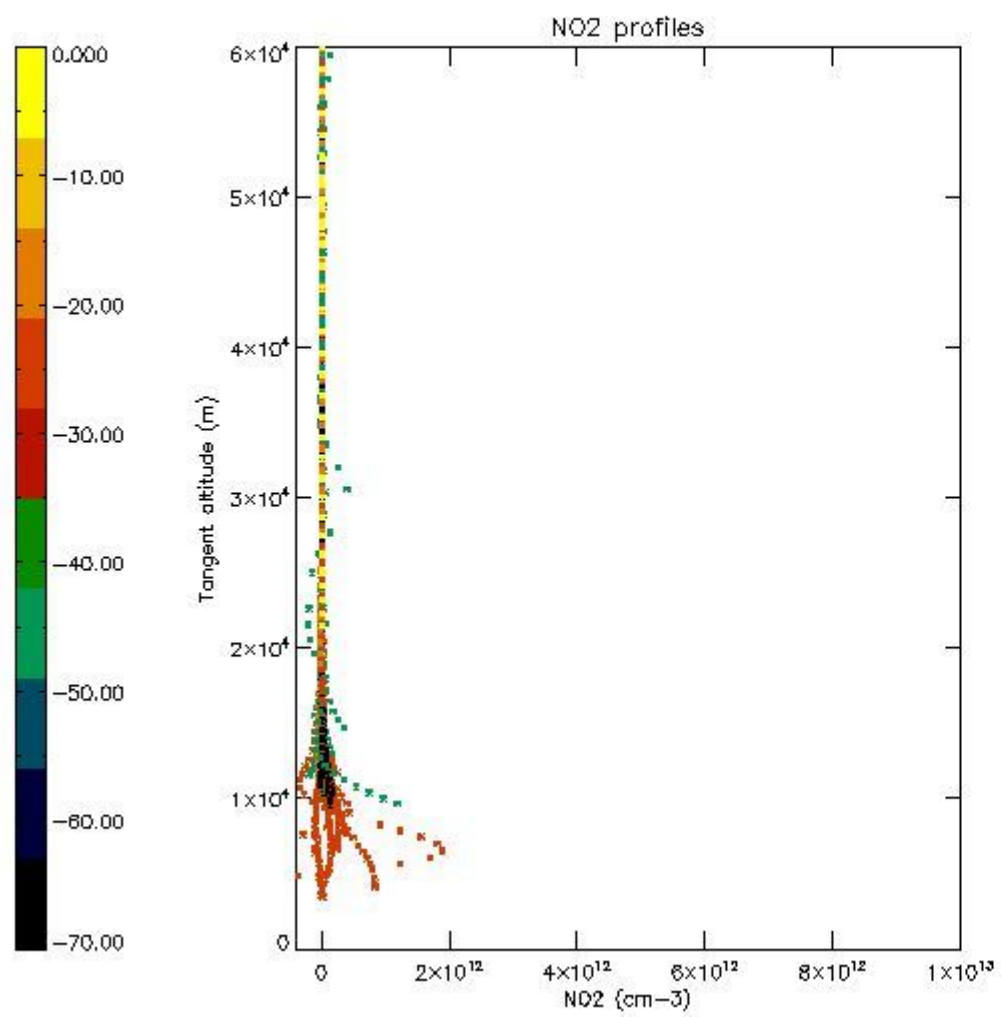
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



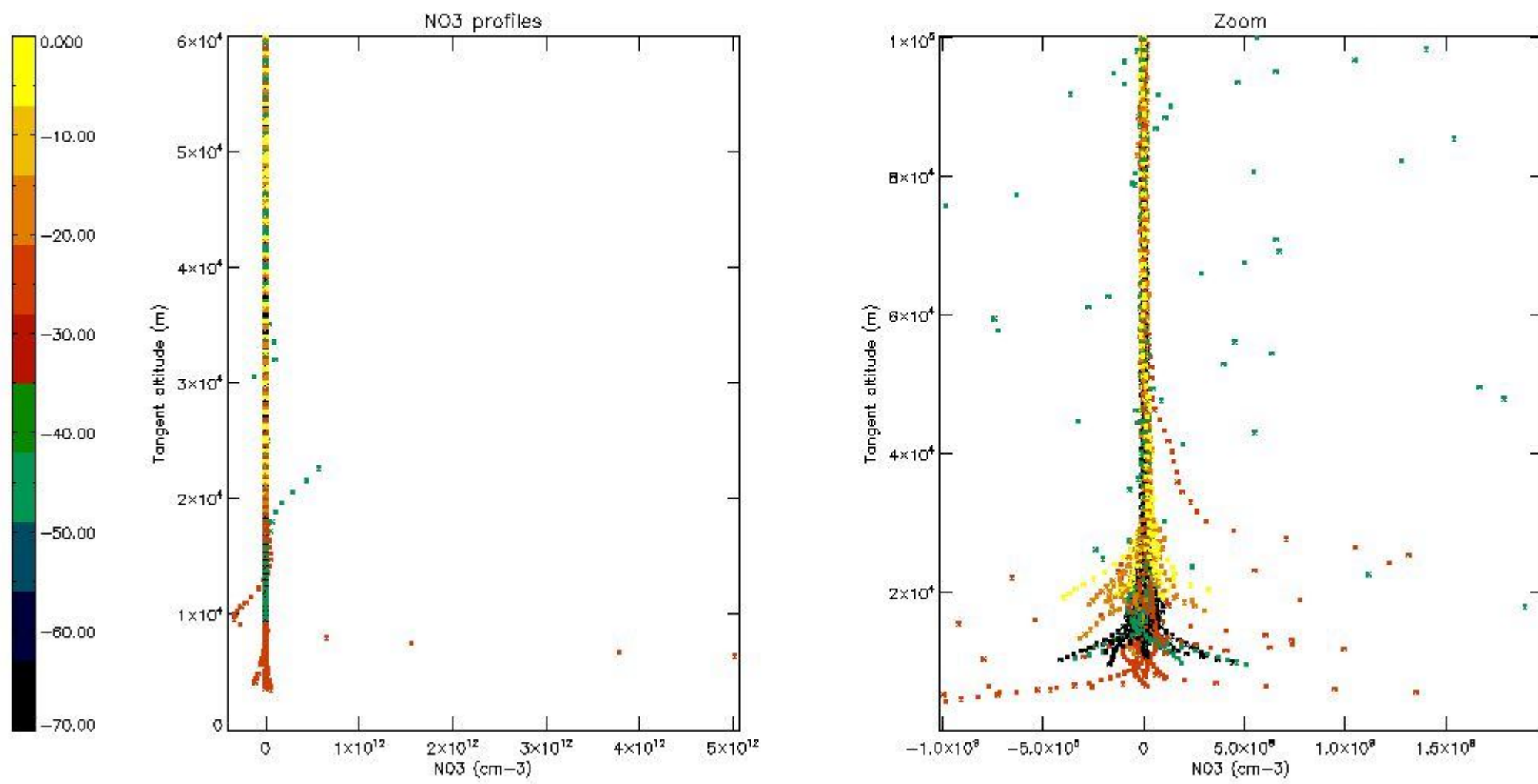
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



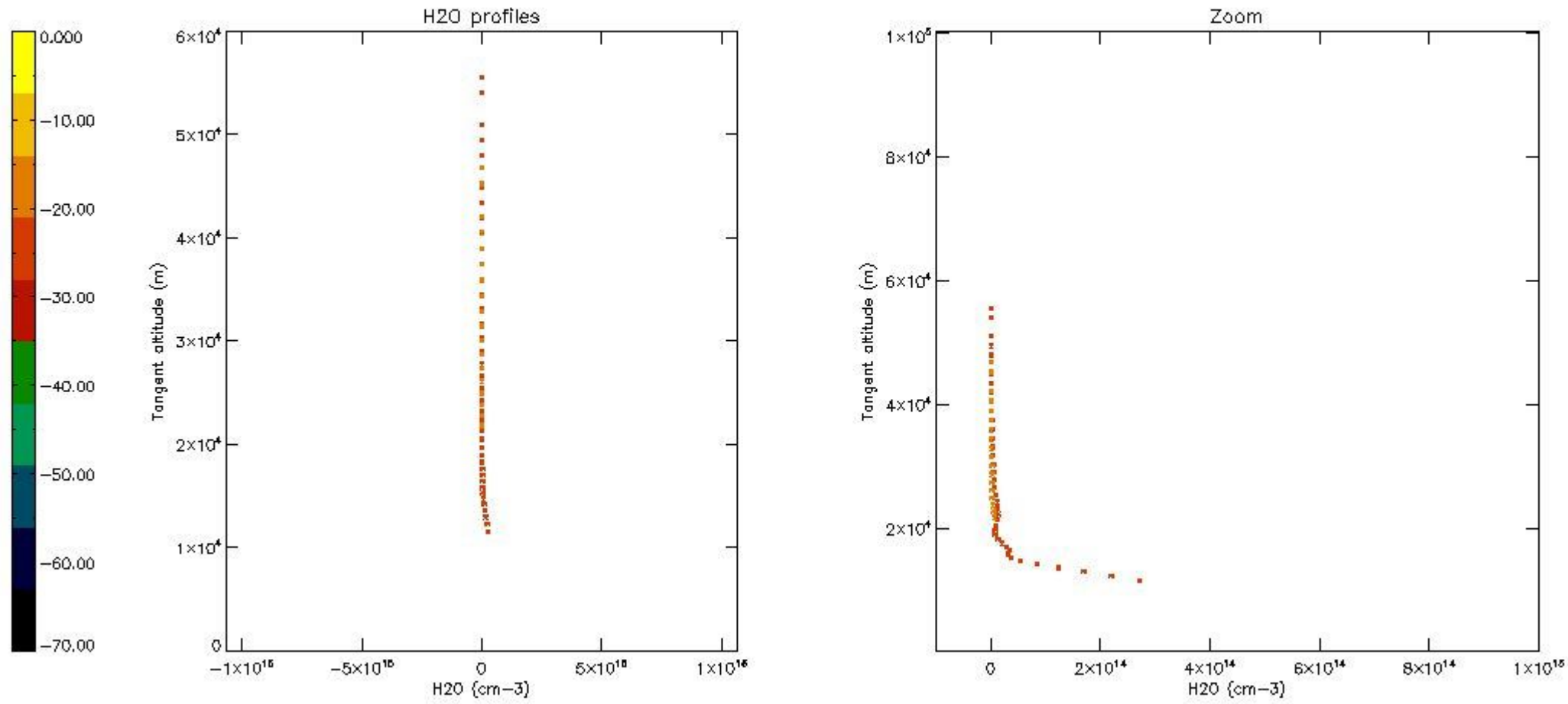
5.7 Plot NO3 profiles for all STD (dark without errors)

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	15-MAY-2008 00:02:52
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	15-MAY-2008 00:02:52
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	15-MAY-2008 00:02:52

GOMOS Level 2 Daily Report

SUMMARY

[1. General Info](#)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Item	Value
Time of report generation	25APR2013 14:15:21
Data source version	GOMOS/6.01
Start time of products	15-05-2008 (15MAY2008 00:00:00)
Stop time of products	16-05-2008 (16MAY2008 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	325
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

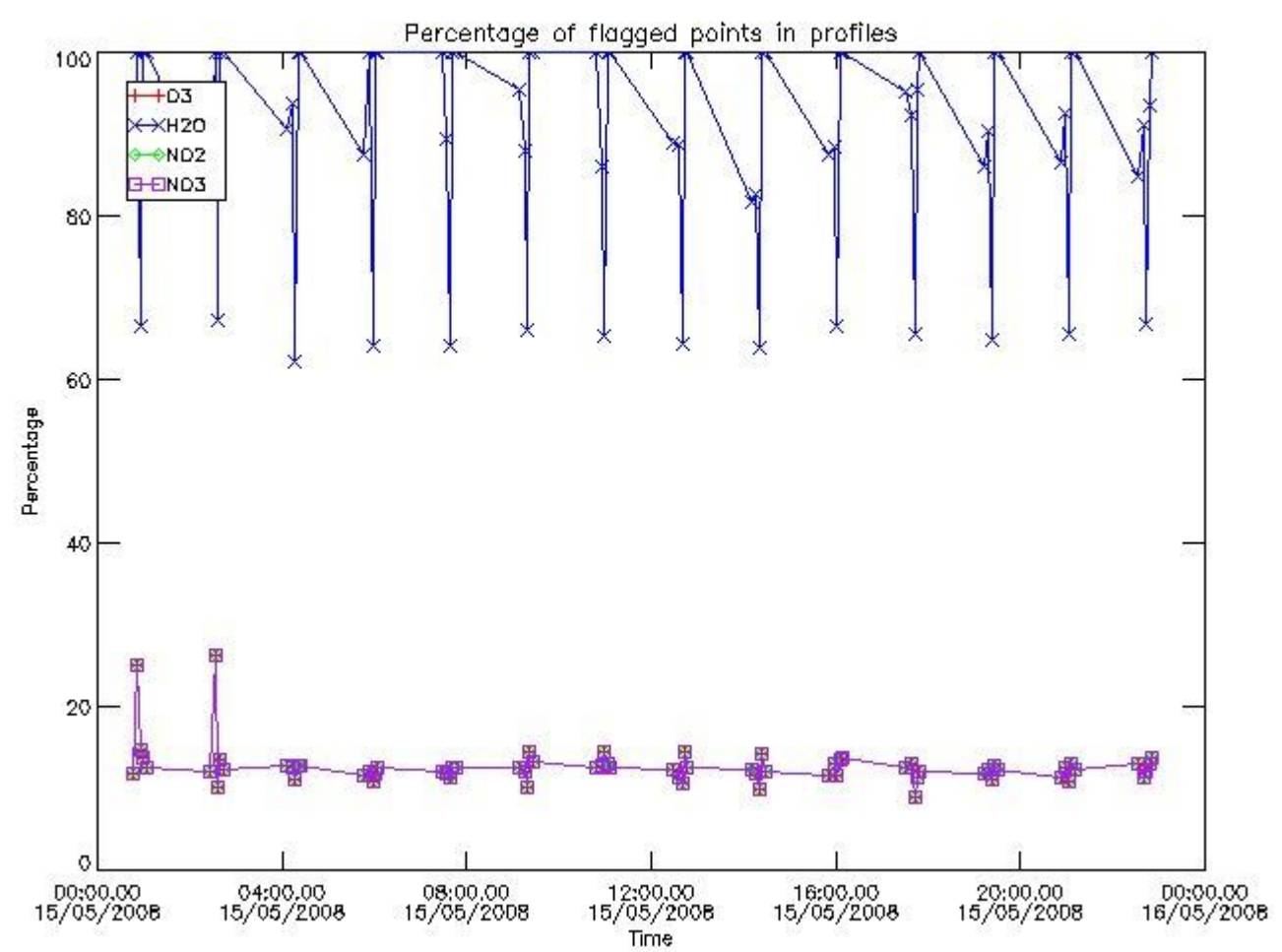
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20080515_000252_000000352068_00331_32449_0280.N1	15-MAY-2008 00:02:52	Bright	34.500	39	85Eta UMa	1.8540	24000.	69	32449	No
2	GOM_NL__2PRFIN20080515_000427_000000342068_00331_32449_0281.N1	15-MAY-2008 00:04:27	Bright	34.000	55	79Zet UMa	2.0600	10200.	68	32449	No
3	GOM_NL__2PRFIN20080515_001011_000000352068_00331_32449_0282.N1	15-MAY-2008 00:10:11	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	32449	No
4	GOM_NL__2PRFIN20080515_001432_000000322068_00331_32449_0283.N1	15-MAY-2008 00:14:32	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	32449	No
5	GOM_NL__2PRFIN20080515_002244_000000532068_00331_32449_0284.N1	15-MAY-2008 00:22:44	Bright	53.000	76	27Gam Cas	2.3000	30000.	106	32449	No
6	GOM_NL__2PRFIN20080515_002358_000000372068_00331_32449_0285.N1	15-MAY-2008 00:23:58	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	32449	No
7	GOM_NL__2PRFIN20080515_003627_000000422068_00331_32449_0286.N1	15-MAY-2008 00:36:27	Twilight	42.000	140	88Gam Peg	2.8340	26000.	84	32449	No
8	GOM_NL__2PRFIN20080515_004511_000000432068_00331_32449_0287.N1	15-MAY-2008 00:45:11	Dark	43.000	52	16Bet Cet	2.0370	4500.0	86	32449	No
9	GOM_NL__2PRFIN20080515_005200_000000412068_00331_32449_0288.N1	15-MAY-2008 00:52:00	Dark	40.500	84	Alp Phe	2.3970	4500.0	81	32449	No
10	GOM_NL__2PRFIN20080515_005601_000000562068_00331_32449_0289.N1	15-MAY-2008 00:56:01	Dark	55.500	63	Bet Gru	2.1500	2800.0	111	32449	No
11	GOM_NL__2PRFIN20080515_005917_000000372068_00332_32450_0280.N1	15-MAY-2008 00:59:17	Dark	37.000	148	Alp Tuc	2.8780	4100.0	74	32450	No
12	GOM_NL__2PRFIN20080515_010303_000000412068_00332_32450_0281.N1	15-MAY-2008 01:03:03	Dark	40.500	45	Alp Pav	1.9400	26000.	81	32450	No
13	GOM_NL__2PRFIN20080515_010827_000000462068_00332_32450_0282.N1	15-MAY-2008 01:08:27	Straylight	46.000	43	Alp TrA	1.9100	4250.0	92	32450	No
14	GOM_NL__2PRFIN20080515_011038_000000372068_00332_32450_0283.N1	15-MAY-2008 01:10:38	Straylight	36.500	134	Bet TrA	2.8100	6600.0	73	32450	No
15	GOM_NL__2PRFIN20080515_011221_000000432068_00332_32450_0284.N1	15-MAY-2008 01:12:21	Straylight	43.000	4	Alp1Cen	-0.010000	5800.0	86	32450	No
16	GOM_NL__2PRFIN20080515_011555_000000372068_00332_32450_0285.N1	15-MAY-2008 01:15:55	Straylight	36.500	78	Alp Lup	2.3040	28000.	73	32450	No
17	GOM_NL__2PRFIN20080515_011725_000000382068_00332_32450_0286.N1	15-MAY-2008 01:17:25	Tw_and_stray	37.500	81	Eta Cen	2.3560	28000.	75	32450	No
18	GOM_NL__2PRFIN20080515_011921_000000422068_00332_32450_0287.N1	15-MAY-2008 01:19:21	Tw_and_stray	42.000	54	5The Cen	2.0550	4500.0	84	32450	No
19	GOM_NL__2PRFIN20080515_012437_000000382068_00332_32450_0288.N1	15-MAY-2008 01:24:37	Bright	38.000	122	9Alp2Lib	2.7470	9700.0	76	32450	No
20	GOM_NL__2PRFIN20080515_012646_000000372068_00332_32450_0289.N1	15-MAY-2008 01:26:46	Bright	37.000	15	67Alp Vir	0.97600	28000.	74	32450	No
21	GOM_NL__2PRFIN20080515_013309_000000352068_00332_32450_0290.N1	15-MAY-2008 01:33:09	Bright	34.500	138	47Eps Vir	2.8280	4700.0	69	32450	No
22	GOM_NL__2PRFIN20080515_013444_000000352068_00332_32450_0291.N1	15-MAY-2008 01:34:44	Bright	34.500	111	8Eta Boo	2.6800	6000.0	69	32450	No
23	GOM_NL__2PRFIN20080515_014034_000000382068_00332_32450_0292.N1	15-MAY-2008 01:40:34	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	32450	No
24	GOM_NL__2PRFIN20080515_014328_000000352068_00332_32450_0293.N1	15-MAY-2008 01:43:28	Bright	35.000	39	85Eta UMa	1.8540	24000.	70	32450	No
25	GOM_NL__2PRFIN20080515_014503_000000372068_00332_32450_0294.N1	15-MAY-2008 01:45:03	Bright	36.500	55	79Zet UMa	2.0600	10200.	73	32450	No
26	GOM_NL__2PRFIN20080515_015046_000000332068_00332_32450_0295.N1	15-MAY-2008 01:50:46	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	32450	No
27	GOM_NL__2PRFIN20080515_015508_000000352068_00332_32450_0296.N1	15-MAY-2008 01:55:08	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	32450	No
28	GOM_NL__2PRFIN20080515_020320_000000382068_00332_32450_0297.N1	15-MAY-2008 02:03:20	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	32450	No
29	GOM_NL__2PRFIN20080515_020434_000000532068_00332_32450_0298.N1	15-MAY-2008 02:04:34	Bright	53.000	68	18Alp Cas	2.2250	4500.0	106	32450	No
30	GOM_NL__2PRFIN20080515_021704_000000422068_00332_32450_0299.N1	15-MAY-2008 02:17:04	Twilight	42.000	140	88Gam Peg	2.8340	26000.	84	32450	No
31	GOM_NL__2PRFIN20080515_022547_000000432068_00332_32450_0300.N1	15-MAY-2008 02:25:47	Dark	42.500	52	16Bet Cet	2.0370	4500.0	85	32450	No
32	GOM_NL__2PRFIN20080515_023236_000000412068_00332_32450_0301.N1	15-MAY-2008 02:32:36	Dark	40.500	84	Alp Phe	2.3970	4500.0	81	32450	No
33	GOM_NL__2PRFIN20080515_023638_000000562068_00332_32450_0302.N1	15-MAY-2008 02:36:38	Dark	55.500	63	Bet Gru	2.1500	2800.0	111	32450	No
34	GOM_NL__2PRFIN20080515_023954_000000382068_00333_32451_0288.N1	15-MAY-2008 02:39:54	Dark	38.000	148	Alp Tuc	2.8780	4100.0	76	32451	No
35	GOM_NL__2PRFIN20080515_024339_000000422068_00333_32451_0289.N1	15-MAY-2008 02:43:39	Dark	41.500	45	Alp Pav	1.9400	26000.	83	32451	No
36	GOM_NL__2PRFIN20080515_024903_000000392068_00333_32451_0290.N1	15-MAY-2008 02:49:03	Straylight	39.000	43	Alp TrA	1.9100	4250.0	78	32451	No
37	GOM_NL__2PRFIN20080515_025114_000000362068_00333_32451_0291.N1	15-MAY-2008 02:51:14	Straylight	36.000	134	Bet TrA	2.8100	6600.0	72	32451	No
38	GOM_NL__2PRFIN20080515_025257_000000422068_00333_32451_0292.N1	15-MAY-2008 02:52:57	Straylight	41.500	4	Alp1Cen	-0.010000	5800.0	83	32451	No
39	GOM_NL__2PRFIN20080515_025631_000000372068_00333_32451_0293.N1	15-MAY-2008 02:56:31	Straylight	37.000	78	Alp Lup	2.3040	28000.	74	32451	No
40	GOM_NL__2PRFIN20080515_025801_000000372068_00333_32451_0294.N1	15-MAY-2008 02:58:01	Tw_and_stray	37.000	81	Eta Cen	2.3560	28000.	74	32451	No
41	GOM_NL__2PRFIN20080515_025957_000000452068_00333_32451_0295.N1	15-MAY-2008 02:59:57	Tw_and_stray	45.000	54	5The Cen	2.0550	4500.0	90	32451	No
42	GOM_NL__2PRFIN20080515_030513_000000392068_00333_32451_0296.N1	15-MAY-2008 03:05:13	Bright	38.500	122	9Alp2Lib	2.7470	9700.0	77	32451	No

279	GOM_NL__2PRFIN20080515_202143_000000362068_00343_32461_0476.N1	15-MAY-2008 20:21:43	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	32461	No
280	GOM_NL__2PRFIN20080515_202955_000000502068_00343_32461_0477.N1	15-MAY-2008 20:29:55	Bright	49.500	76	27Gam Cas	2.3000	30000.	99	32461	No
281	GOM_NL__2PRFIN20080515_203109_000000362068_00343_32461_0478.N1	15-MAY-2008 20:31:09	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	32461	No
282	GOM_NL__2PRFIN20080515_205226_000000452068_00343_32461_0479.N1	15-MAY-2008 20:52:26	Dark	45.000	52	16Bet Cet	2.0370	4500.0	90	32461	No
283	GOM_NL__2PRFIN20080515_205915_000000412068_00343_32461_0480.N1	15-MAY-2008 20:59:15	Dark	40.500	84	Alp Phe	2.3970	4500.0	81	32461	No
284	GOM_NL__2PRFIN20080515_210320_000000472068_00343_32461_0481.N1	15-MAY-2008 21:03:20	Dark	47.000	63	Bet Gru	2.1500	2800.0	94	32461	No
285	GOM_NL__2PRFIN20080515_210634_000000392068_00344_32462_0475.N1	15-MAY-2008 21:06:34	Dark	39.000	148	Alp Tuc	2.8780	4100.0	78	32462	No
286	GOM_NL__2PRFIN20080515_211022_000000422068_00344_32462_0476.N1	15-MAY-2008 21:10:22	Dark	41.500	45	Alp Pav	1.9400	26000.	83	32462	No
287	GOM_NL__2PRFIN20080515_211542_000000392068_00344_32462_0477.N1	15-MAY-2008 21:15:42	Straylight	38.500	43	Alp TrA	1.9100	4250.0	77	32462	No
288	GOM_NL__2PRFIN20080515_211752_000000402068_00344_32462_0478.N1	15-MAY-2008 21:17:52	Straylight	39.500	134	Bet TrA	2.8100	6600.0	79	32462	No
289	GOM_NL__2PRFIN20080515_211934_000000512068_00344_32462_0479.N1	15-MAY-2008 21:19:34	Straylight	50.500	4	Alp1Cen	-0.010000	5800.0	101	32462	No
290	GOM_NL__2PRFIN20080515_212309_000000372068_00344_32462_0480.N1	15-MAY-2008 21:23:09	Straylight	37.000	78	Alp Lup	2.3040	28000.	74	32462	No
291	GOM_NL__2PRFIN20080515_212439_000000402068_00344_32462_0481.N1	15-MAY-2008 21:24:39	Twi_and_stray	39.500	81	Eta Cen	2.3560	28000.	79	32462	No
292	GOM_NL__2PRFIN20080515_212634_000000412068_00344_32462_0482.N1	15-MAY-2008 21:26:34	Twi_and_stray	41.000	54	5The Cen	2.0550	4500.0	82	32462	No
293	GOM_NL__2PRFIN20080515_213150_000000382068_00344_32462_0483.N1	15-MAY-2008 21:31:50	Bright	38.000	122	9Alp2Lib	2.7470	9700.0	76	32462	No
294	GOM_NL__2PRFIN20080515_213359_000000382068_00344_32462_0484.N1	15-MAY-2008 21:33:59	Bright	37.500	15	67Alp Vir	0.97600	28000.	75	32462	No
295	GOM_NL__2PRFIN20080515_214023_000000352068_00344_32462_0485.N1	15-MAY-2008 21:40:23	Bright	35.000	138	47Eps Vir	2.8280	4700.0	70	32462	No
296	GOM_NL__2PRFIN20080515_214156_000000352068_00344_32462_0486.N1	15-MAY-2008 21:41:56	Bright	35.000	111	8Eta Boo	2.6800	6000.0	70	32462	No
297	GOM_NL__2PRFIN20080515_214744_000000362068_00344_32462_0487.N1	15-MAY-2008 21:47:44	Bright	35.500	180	27Gam Boo	3.0400	8000.0	71	32462	No
298	GOM_NL__2PRFIN20080515_215039_000000362068_00344_32462_0488.N1	15-MAY-2008 21:50:39	Bright	35.500	39	85Eta UMa	1.8540	24000.	71	32462	No
299	GOM_NL__2PRFIN20080515_215215_000000362068_00344_32462_0489.N1	15-MAY-2008 21:52:15	Bright	36.000	55	79Zet UMa	2.0600	10200.	72	32462	No
300	GOM_NL__2PRFIN20080515_215756_000000392068_00344_32462_0490.N1	15-MAY-2008 21:57:56	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	32462	No
301	GOM_NL__2PRFIN20080515_220219_000000362068_00344_32462_0491.N1	15-MAY-2008 22:02:19	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	32462	No
302	GOM_NL__2PRFIN20080515_221031_000000402068_00344_32462_0492.N1	15-MAY-2008 22:10:31	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	32462	No
303	GOM_NL__2PRFIN20080515_221145_000000352068_00344_32462_0493.N1	15-MAY-2008 22:11:45	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	32462	No
304	GOM_NL__2PRFIN20080515_223302_000000432068_00344_32462_0494.N1	15-MAY-2008 22:33:02	Dark	42.500	52	16Bet Cet	2.0370	4500.0	85	32462	No
305	GOM_NL__2PRFIN20080515_223951_000000452068_00344_32462_0495.N1	15-MAY-2008 22:39:51	Dark	45.000	84	Alp Phe	2.3970	4500.0	90	32462	No
306	GOM_NL__2PRFIN20080515_224357_000000432068_00344_32462_0496.N1	15-MAY-2008 22:43:57	Dark	42.500	63	Bet Gru	2.1500	2800.0	85	32462	No
307	GOM_NL__2PRFIN20080515_224711_000000392068_00345_32463_0494.N1	15-MAY-2008 22:47:11	Dark	39.000	148	Alp Tuc	2.8780	4100.0	78	32463	No
308	GOM_NL__2PRFIN20080515_225059_000000412068_00345_32463_0495.N1	15-MAY-2008 22:50:59	Dark	40.500	45	Alp Pav	1.9400	26000.	81	32463	No
309	GOM_NL__2PRFIN20080515_225618_000000392068_00345_32463_0496.N1	15-MAY-2008 22:56:18	Straylight	38.500	43	Alp TrA	1.9100	4250.0	77	32463	No
310	GOM_NL__2PRFIN20080515_225828_000000372068_00345_32463_0497.N1	15-MAY-2008 22:58:28	Straylight	37.000	134	Bet TrA	2.8100	6600.0	74	32463	No
311	GOM_NL__2PRFIN20080515_230010_000000502068_00345_32463_0498.N1	15-MAY-2008 23:00:10	Straylight	49.500	4	Alp1Cen	-0.010000	5800.0	99	32463	No
312	GOM_NL__2PRFIN20080515_230345_000000382068_00345_32463_0499.N1	15-MAY-2008 23:03:45	Straylight	37.500	78	Alp Lup	2.3040	28000.	75	32463	No
313	GOM_NL__2PRFIN20080515_230515_000000382068_00345_32463_0500.N1	15-MAY-2008 23:05:15	Twi_and_stray	38.000	81	Eta Cen	2.3560	28000.	76	32463	No
314	GOM_NL__2PRFIN20080515_230710_000000412068_00345_32463_0501.N1	15-MAY-2008 23:07:10	Twi_and_stray	41.000	54	5The Cen	2.0550	4500.0	82	32463	No
315	GOM_NL__2PRFIN20080515_231226_000000382068_00345_32463_0502.N1	15-MAY-2008 23:12:26	Bright	38.000	122	9Alp2Lib	2.7470	9700.0	76	32463	No
316	GOM_NL__2PRFIN20080515_231435_000000382068_00345_32463_0503.N1	15-MAY-2008 23:14:35	Bright	37.500	15	67Alp Vir	0.97600	28000.	75	32463	No
317	GOM_NL__2PRFIN20080515_232100_000000352068_00345_32463_0504.N1	15-MAY-2008 23:21:00	Bright	35.000	138	47Eps Vir	2.8280	4700.0	70	32463	No
318	GOM_NL__2PRFIN20080515_232232_000000352068_00345_32463_0505.N1	15-MAY-2008 23:22:32	Bright	35.000	111	8Eta Boo	2.6800	6000.0	70	32463	No
319	GOM_NL__2PRFIN20080515_232819_000000362068_00345_32463_0506.N1	15-MAY-2008 23:28:19	Bright	36.000	180	27Gam Boo	3.0400	8000.0	72	32463	No
320	GOM_NL__2PRFIN20080515_233115_000000362068_00345_32463_0507.N1	15-MAY-2008 23:31:15	Bright	35.500	39	85Eta UMa	1.8540	24000.	71	32463	No
321	GOM_NL__2PRFIN20080515_233251_000000352068_00345_32463_0508.N1	15-MAY-2008 23:32:51	Bright	35.000	55	79Zet UMa	2.0600	10200.	70	32463	No
322	GOM_NL__2PRFIN20080515_233832_000000392068_00345_32463_0509.N1	15-MAY-2008 23:38:32	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	32463	No
323	GOM_NL__2PRFIN20080515_234255_000000362068_00345_32463_0510.N1	15-MAY-2008 23:42:55	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	32463	No
324	GOM_NL__2PRFIN20080515_235107_000000342068_00345_32463_0511.N1	15-MAY-2008 23:51:07	Bright	33.500	76	27Gam Cas	2.3000	30000.	67	32463	No
325	GOM_NL__2PRFIN20080515_235221_000000362068_00345_32463_0512.N1	15-MAY-2008 23:52:21	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	32463	No

3. Quality information per product

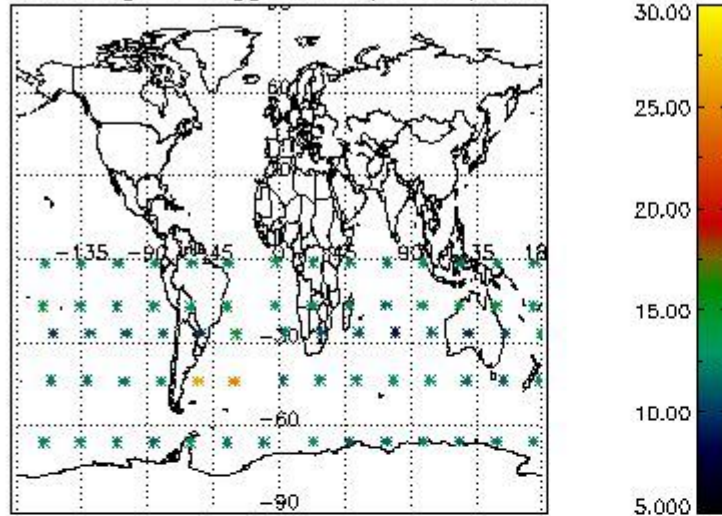
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

3.1 Plot quality information per product (time dependant)

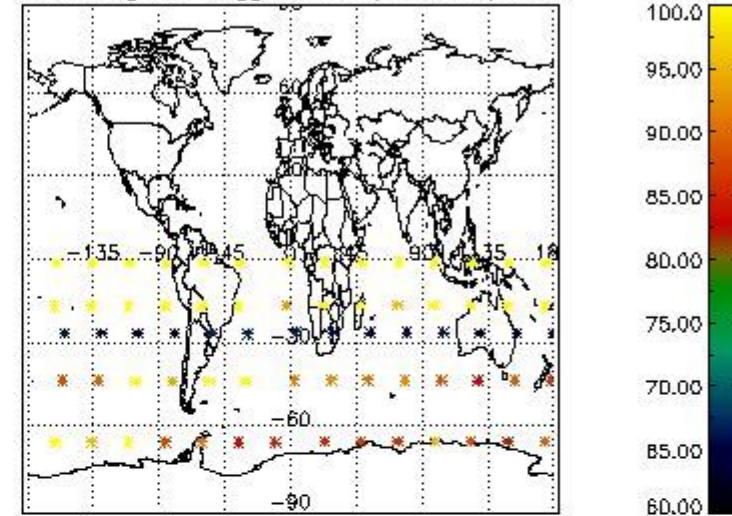


3.2 Plot quality information per product (world map)

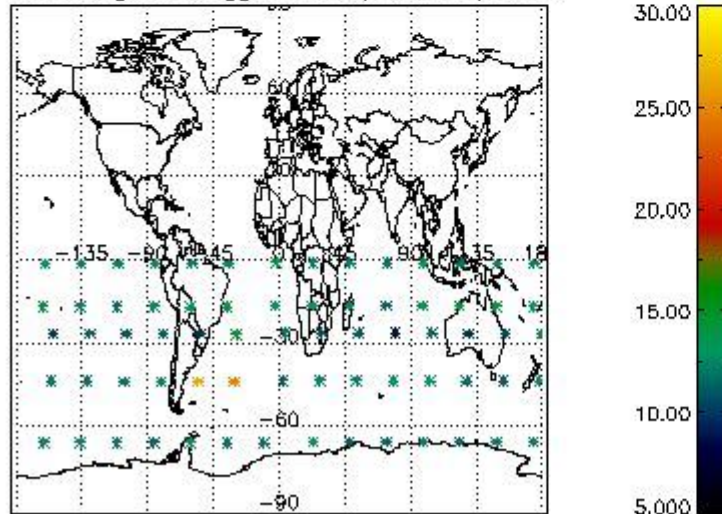
Percentage of flagged data per O3 profile



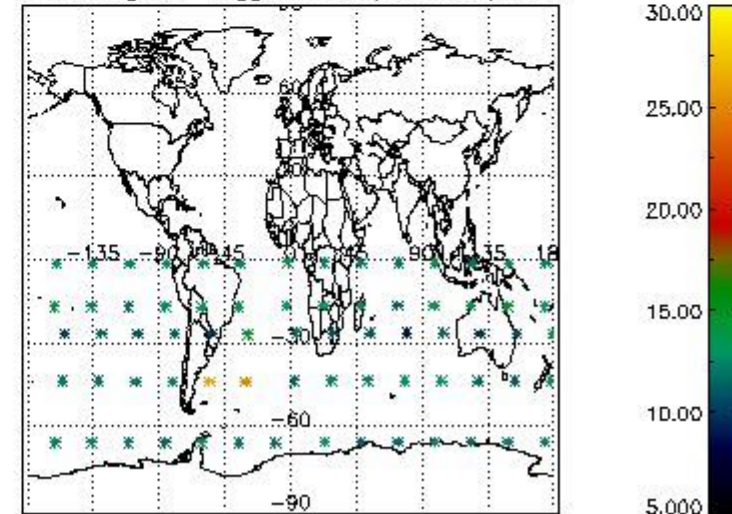
Percentage of flagged data per H2O profile



Percentage of flagged data per NO2 profile



Percentage of flagged data per NO3 profile

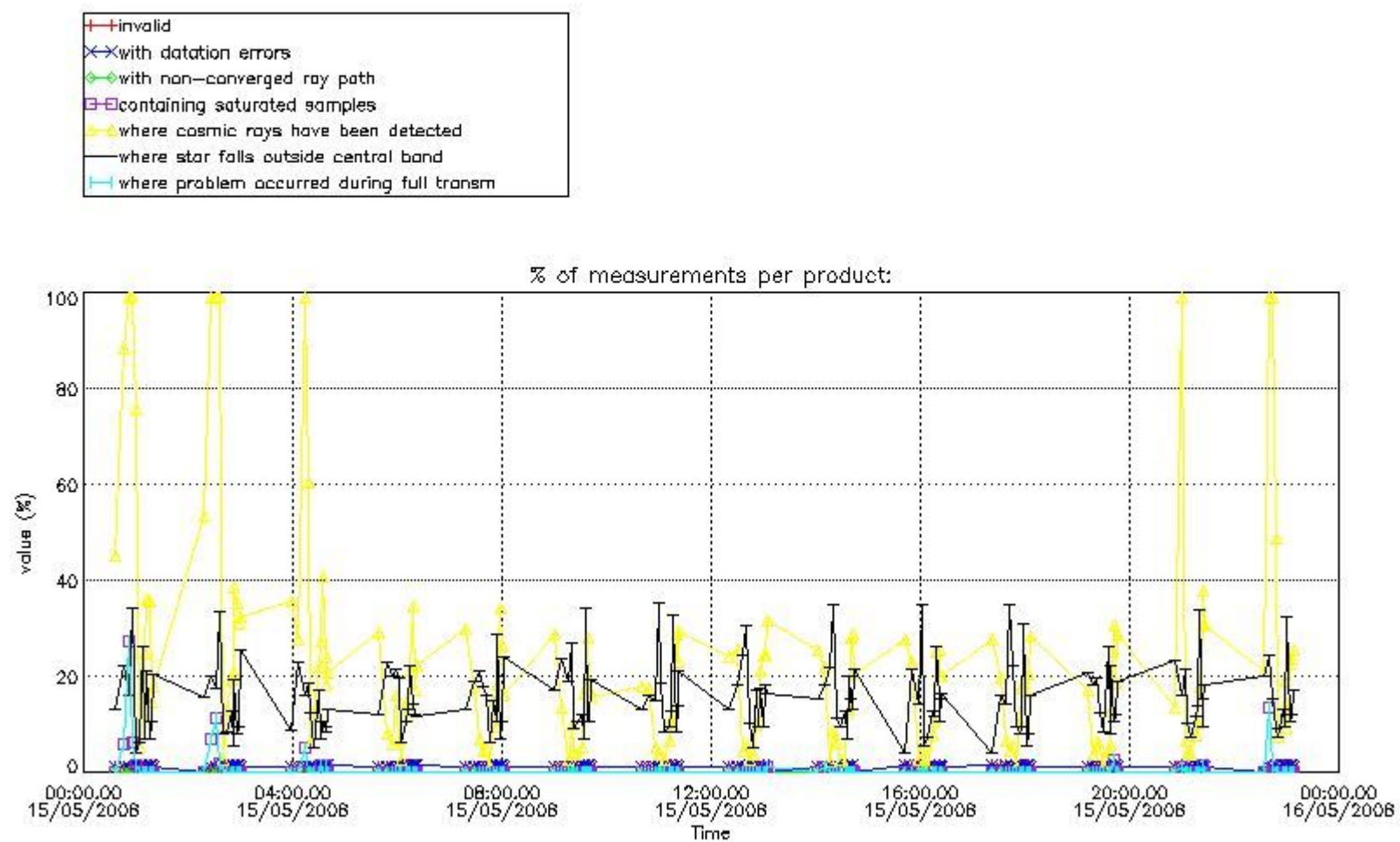


4. Level 1 quality information per product

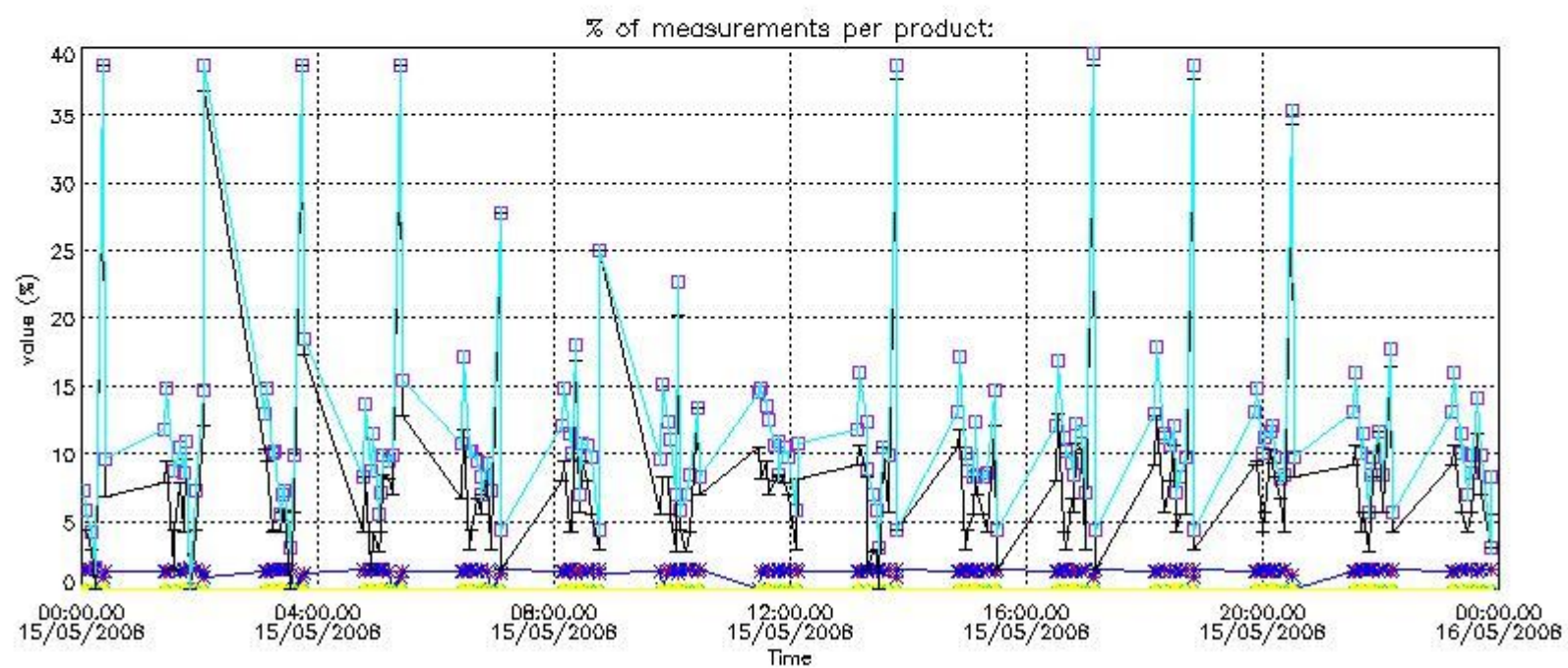
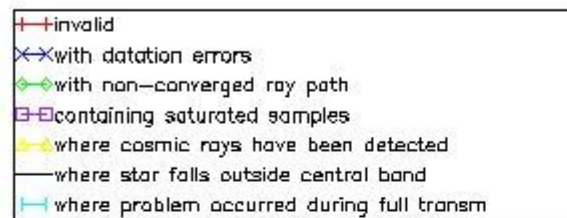
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processing. Products without errors (error flag in the MPH set to "0") are used.

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



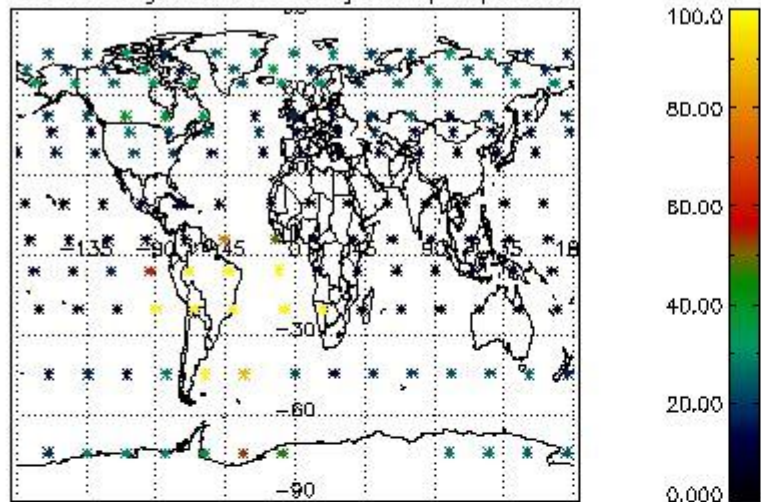
4.1.2 Plot level 1 quality information per product (time dependant): ENVI SAT DESCENDING passes



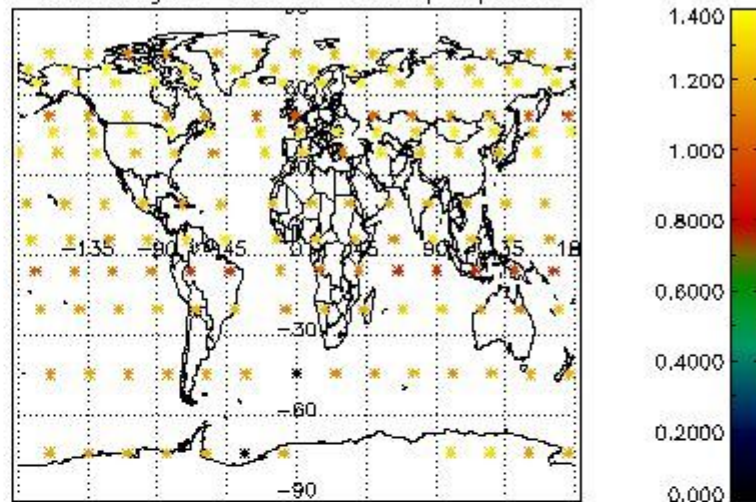
4.2 Plot quality information per product coming from level 1b processing (world map)

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

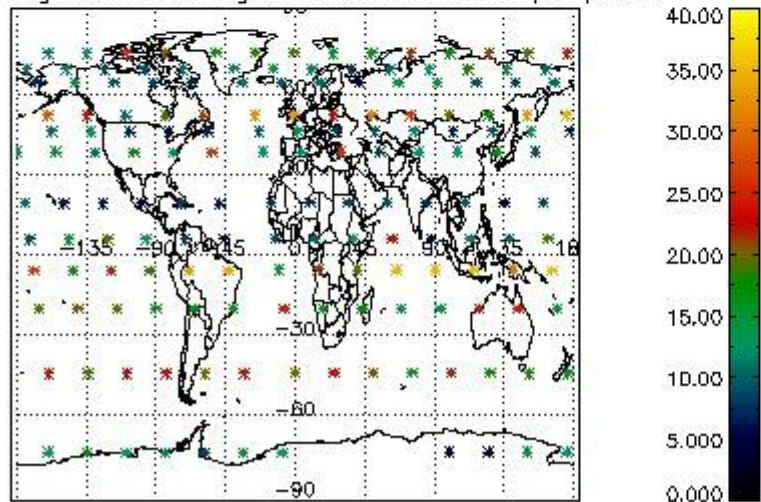
Percentage of cosmic ray hits per profile



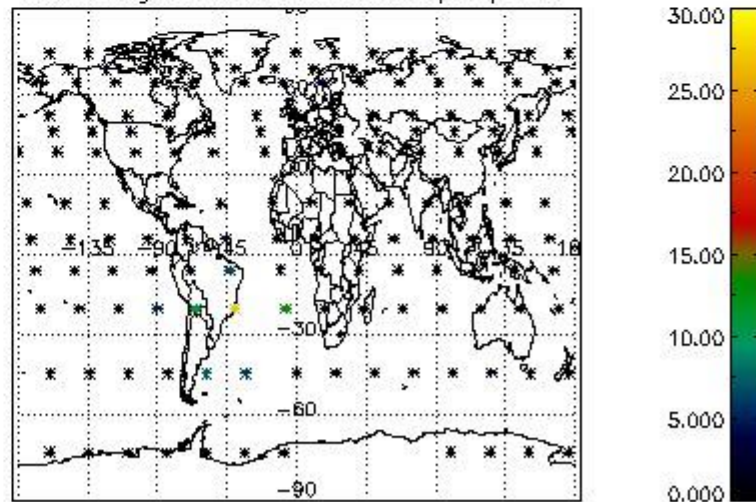
Percentage of datation errors per profile



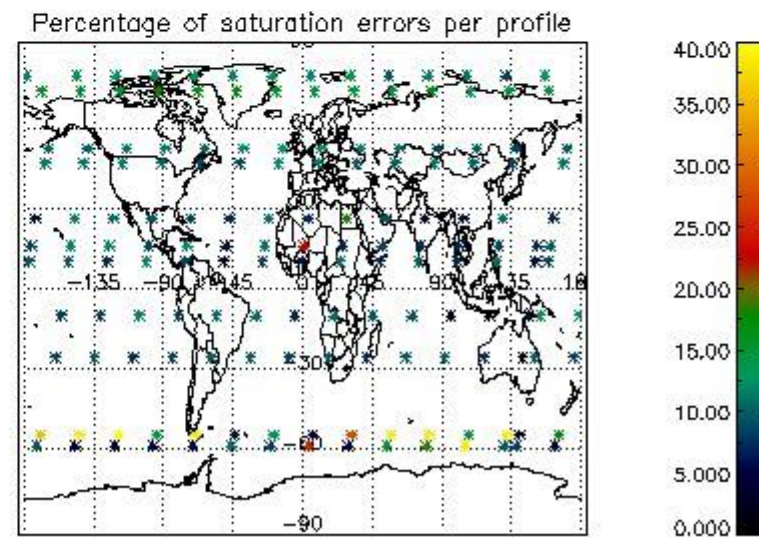
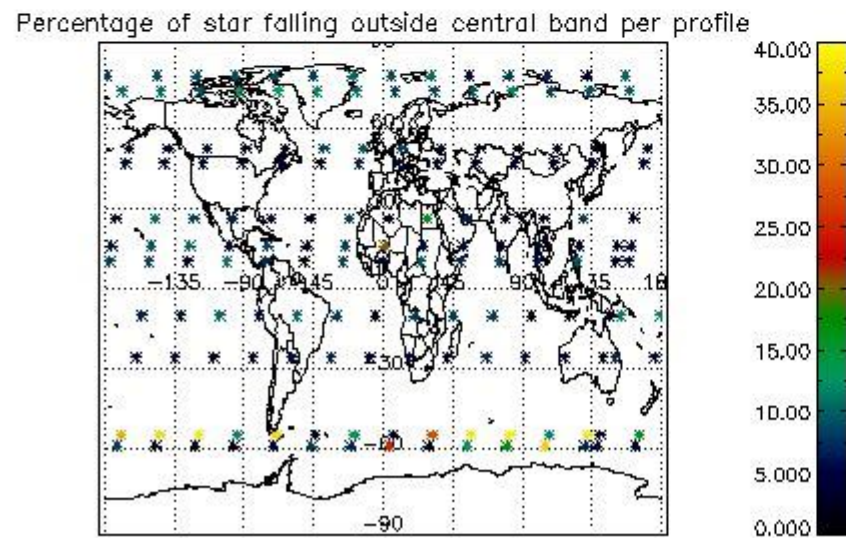
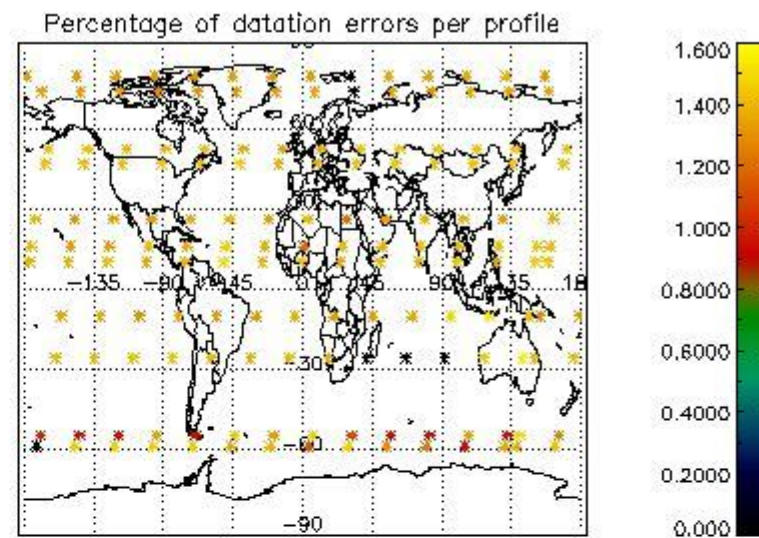
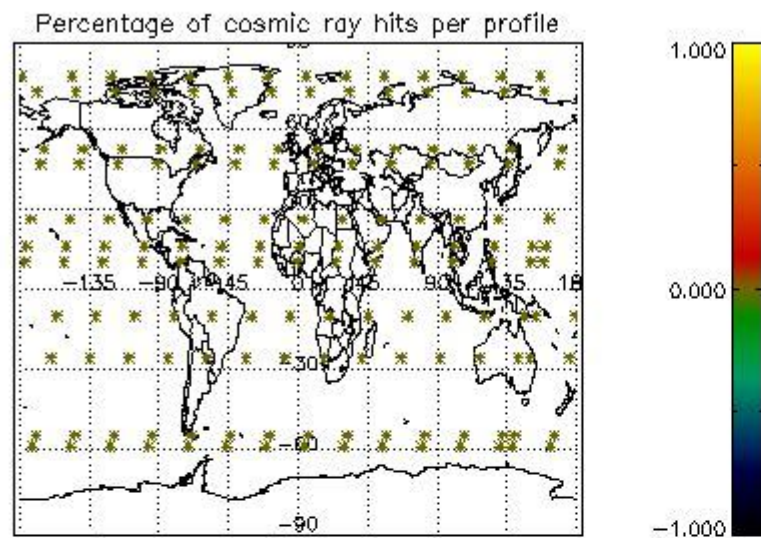
Percentage of star falling outside central band per profile



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

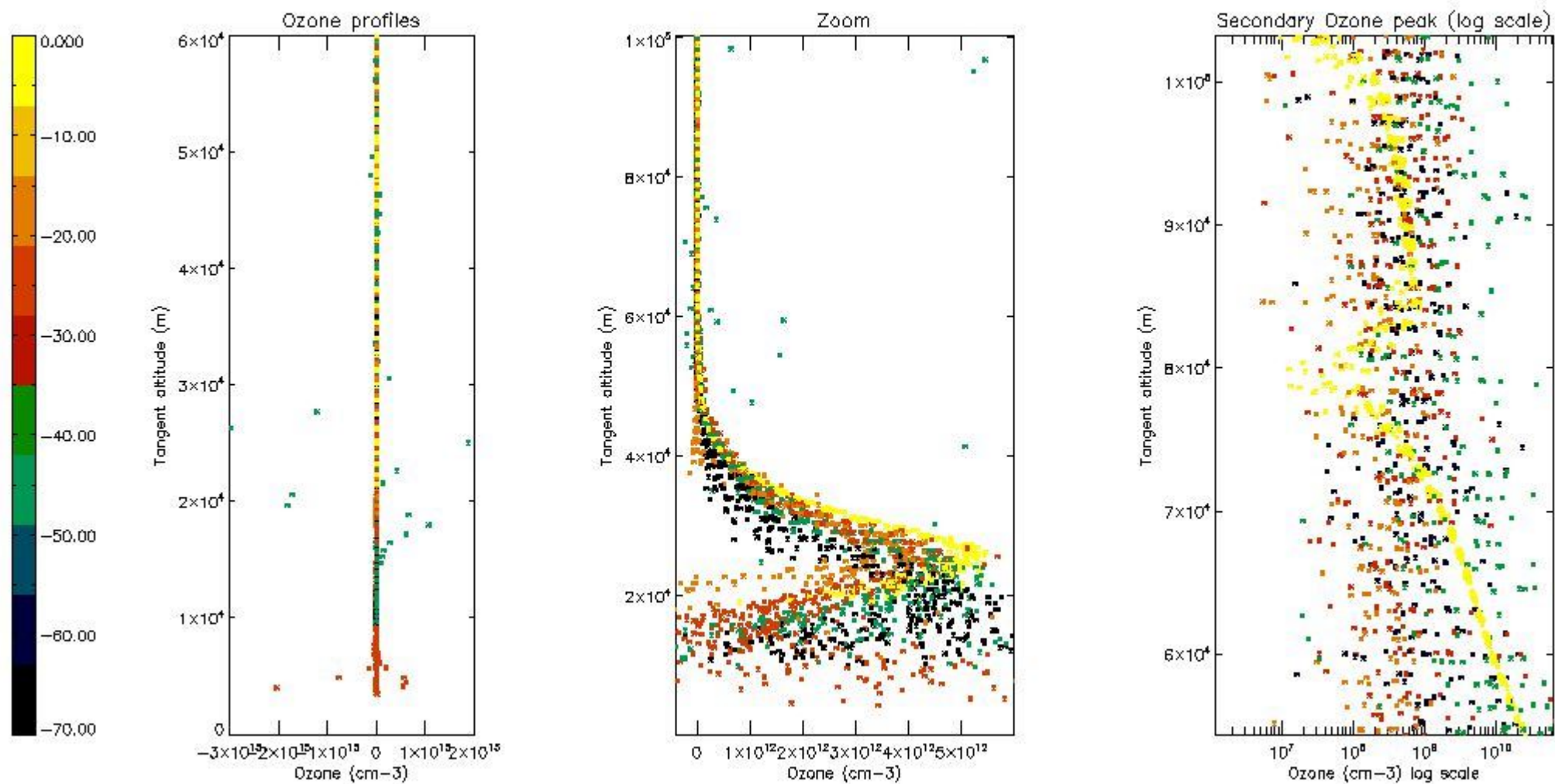
So, the table below shows the percentage of dark limb and valid observations for each criteria with respect to the overall valid daily observations.

Criteria	% of total production
All STD	24
STD < 20	8

STD < 10	4
STD < 5	3

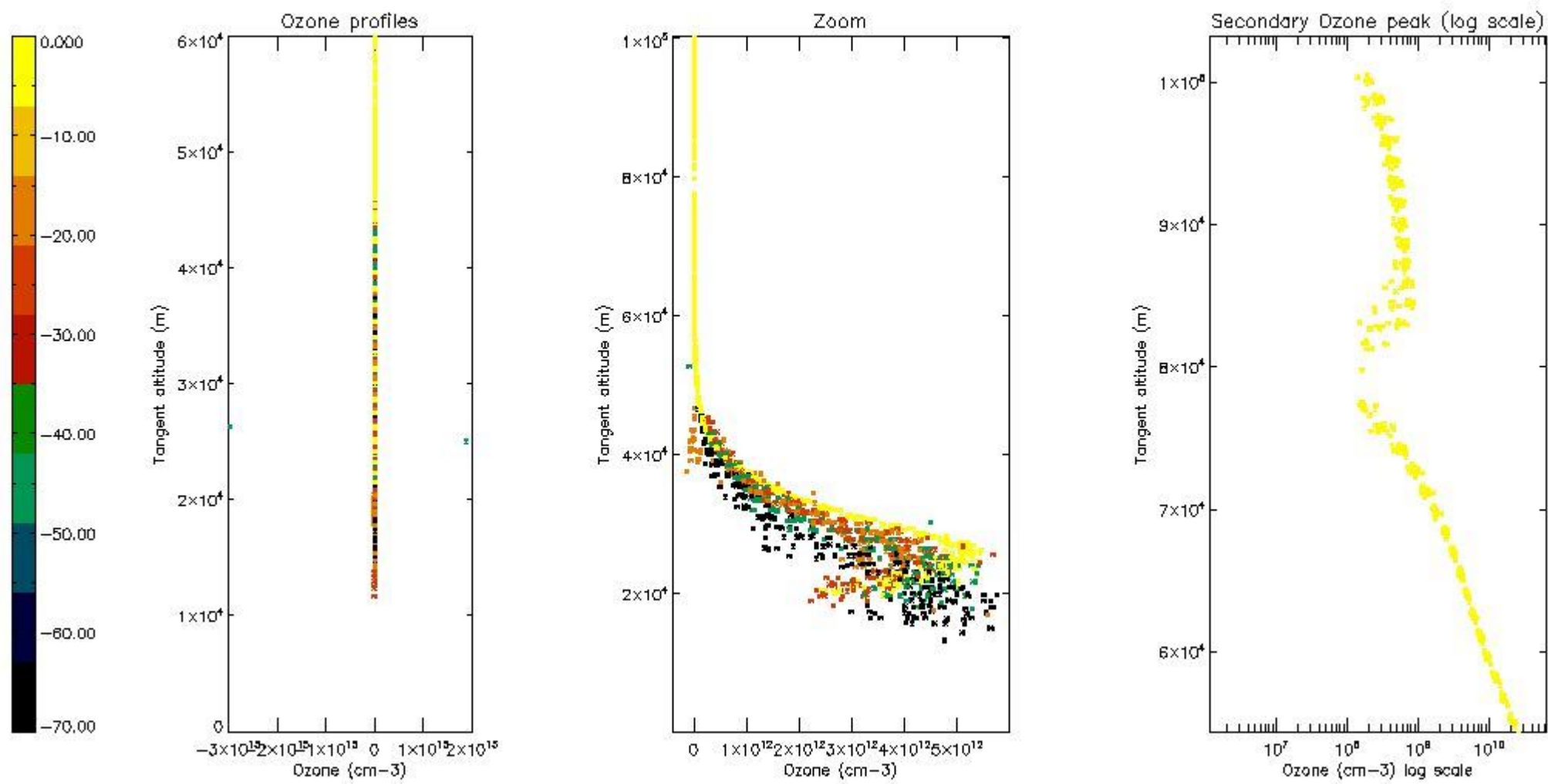
5.2 Plot ozone profiles for all STD (dark without errors)

The colorbar represents the latitude.



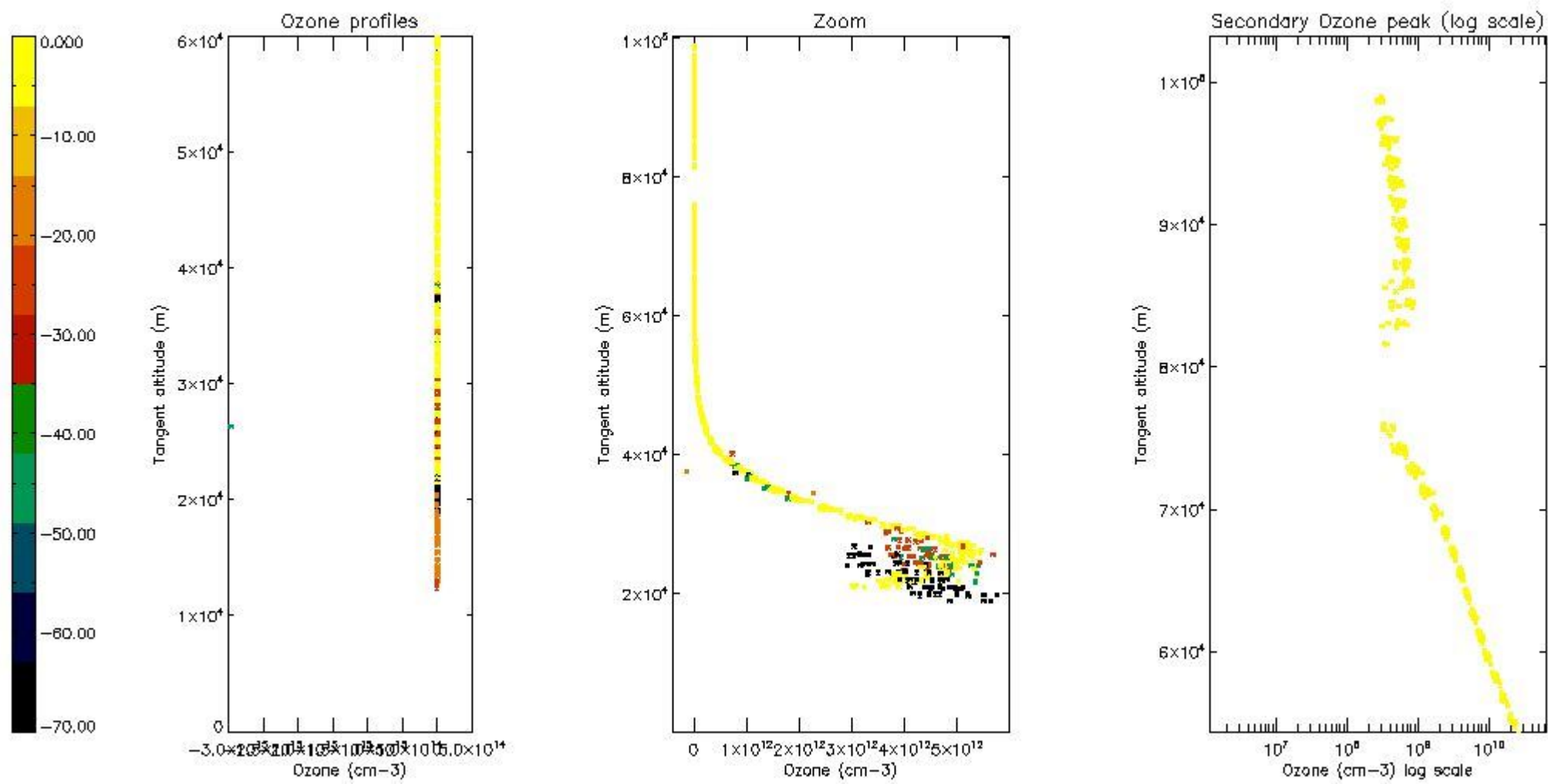
5.3 Plot ozone profiles where STD < 20% (dark without errors)

The colorbar represents the latitude.



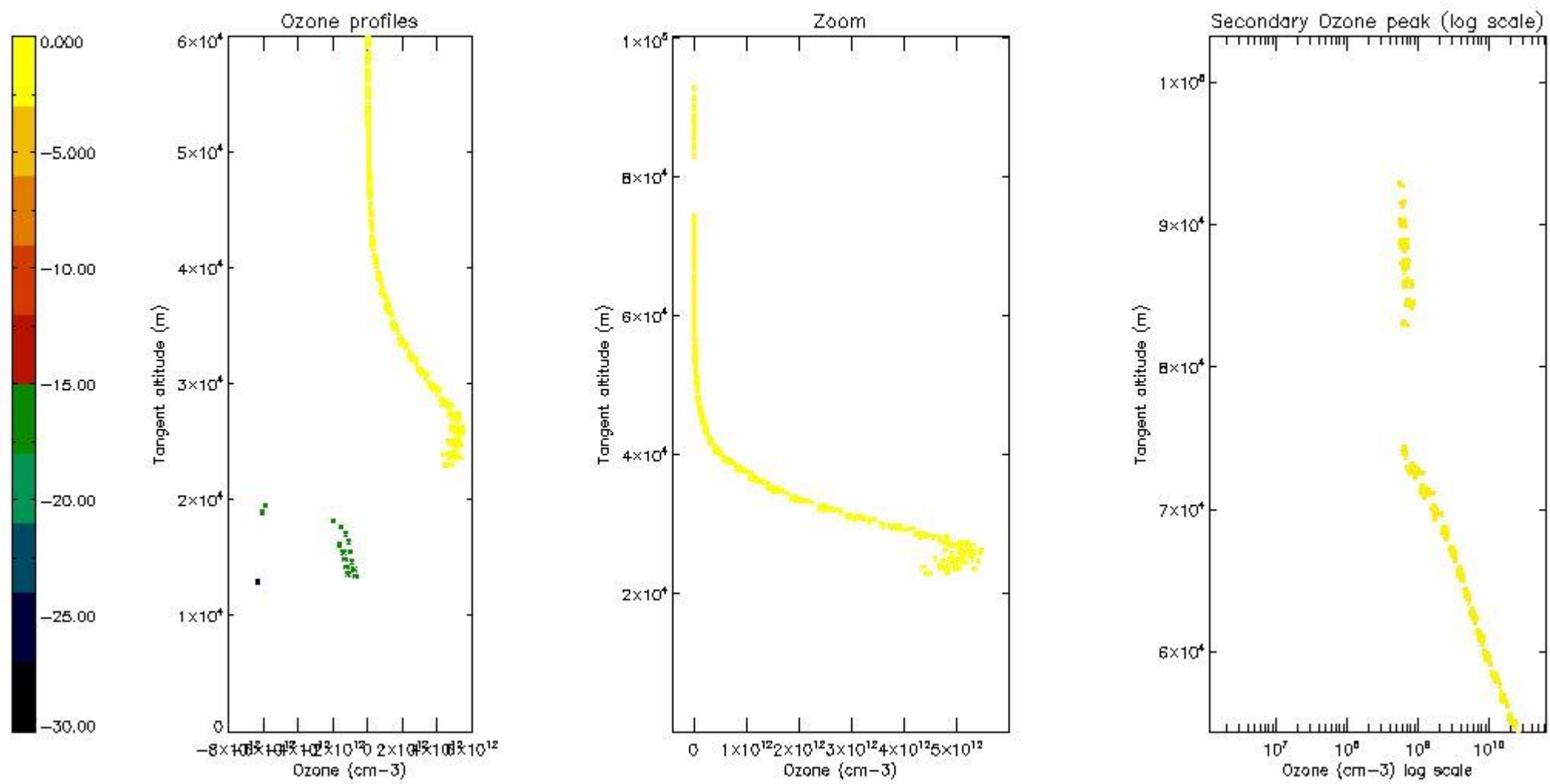
5.4 Plot ozone profiles where STD < 10% (dark without errors)

The colorbar represents the latitude.



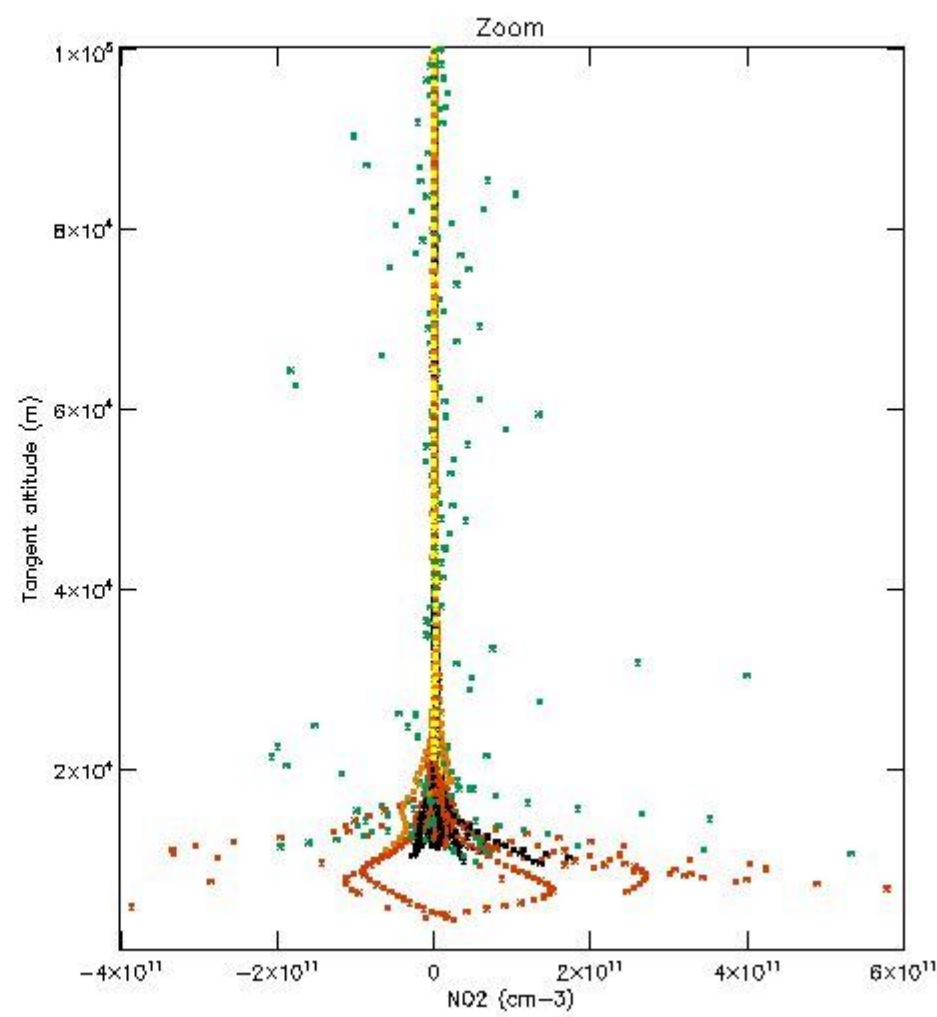
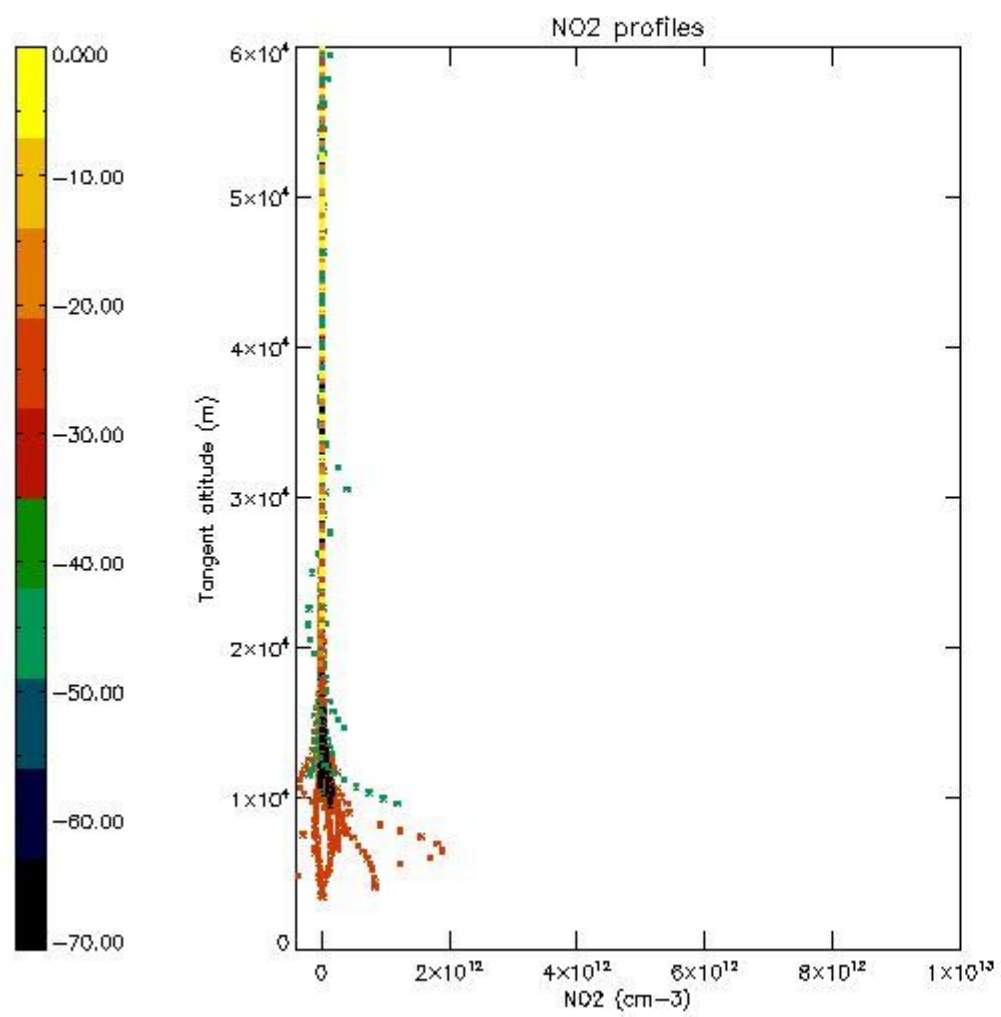
5.5 Plot ozone profiles where $STD < 5\%$ (dark without errors)

The colorbar represents the latitude.



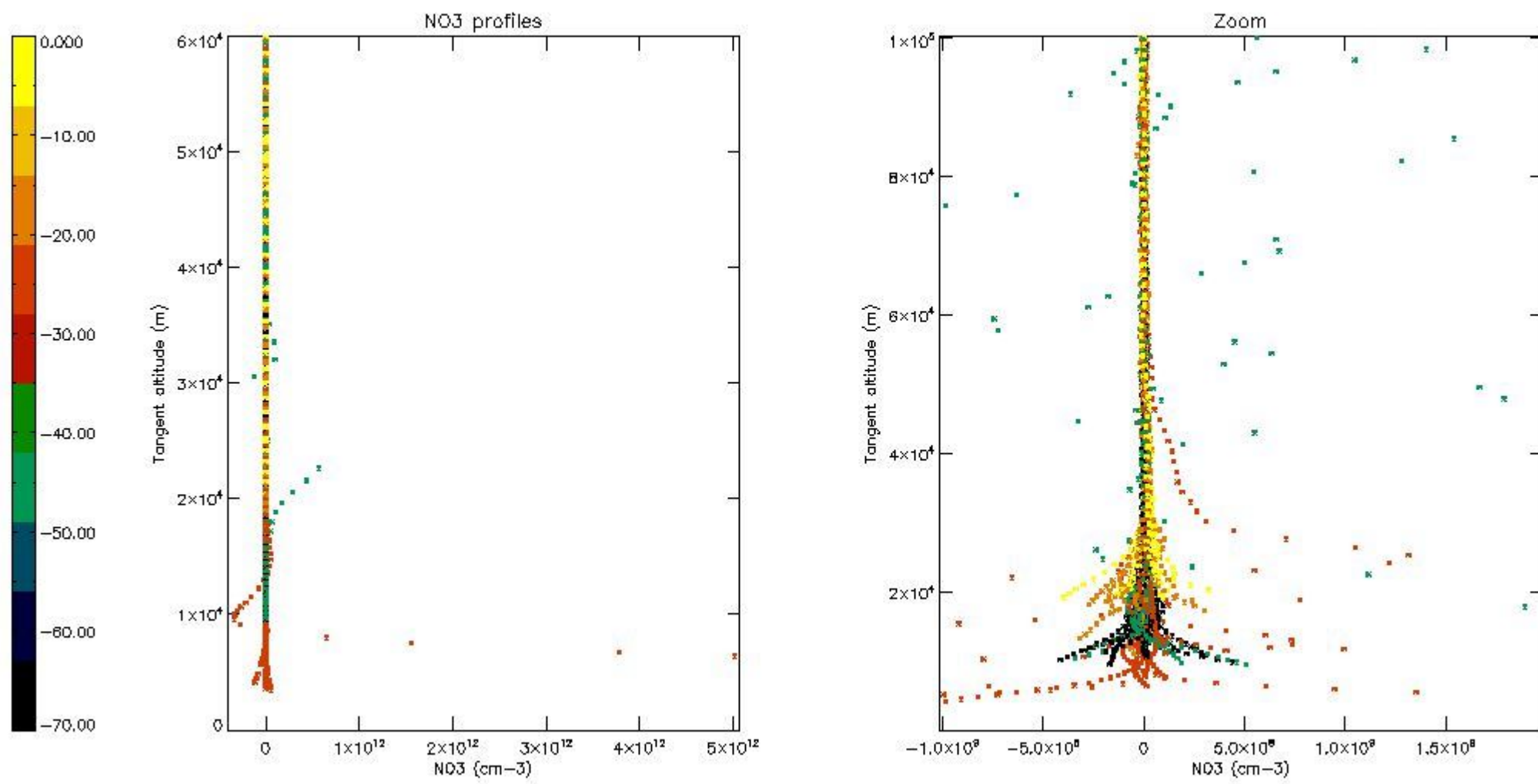
5.6 Plot NO₂ profiles for all STD (dark without errors)

The colorbar represents the latitude.



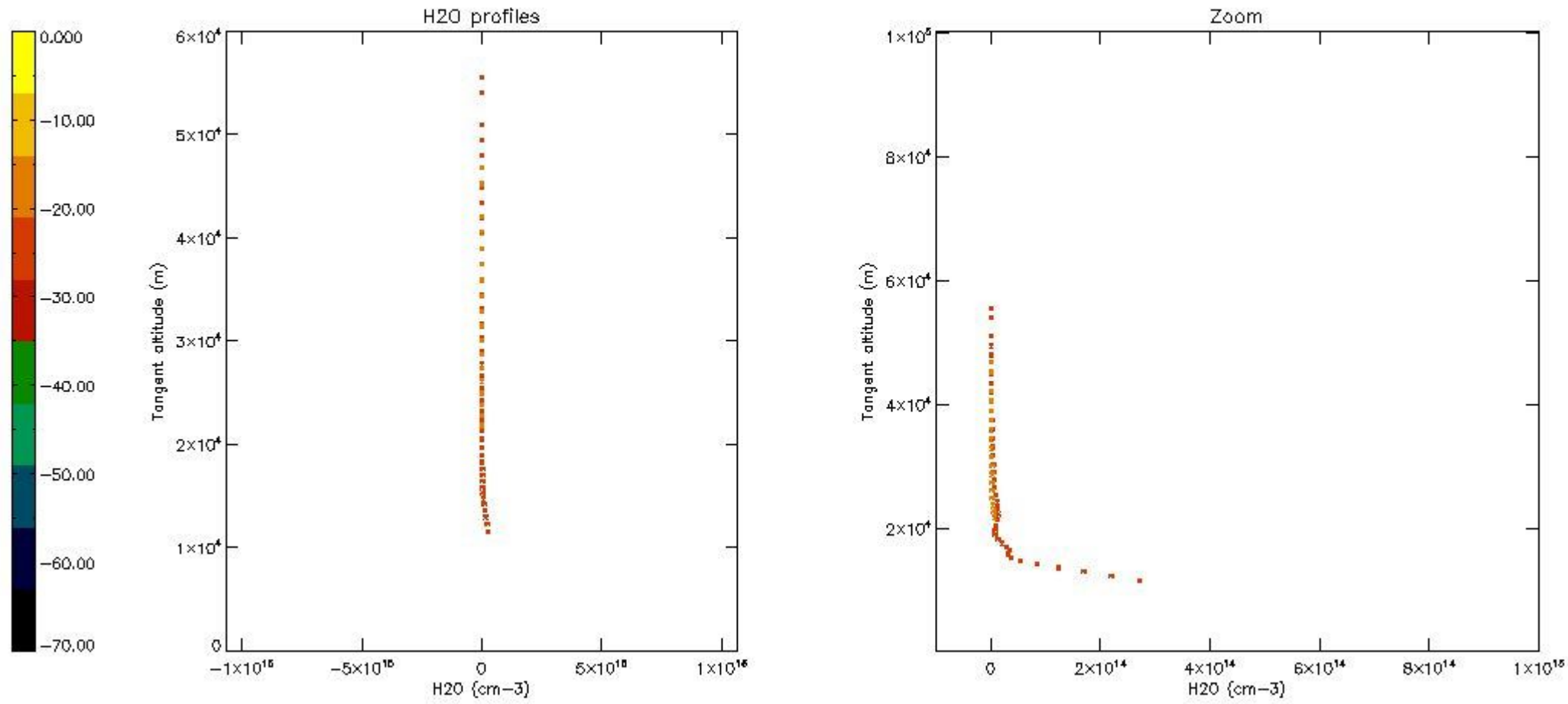
5.7 Plot NO3 profiles for all STD (dark without errors)

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)

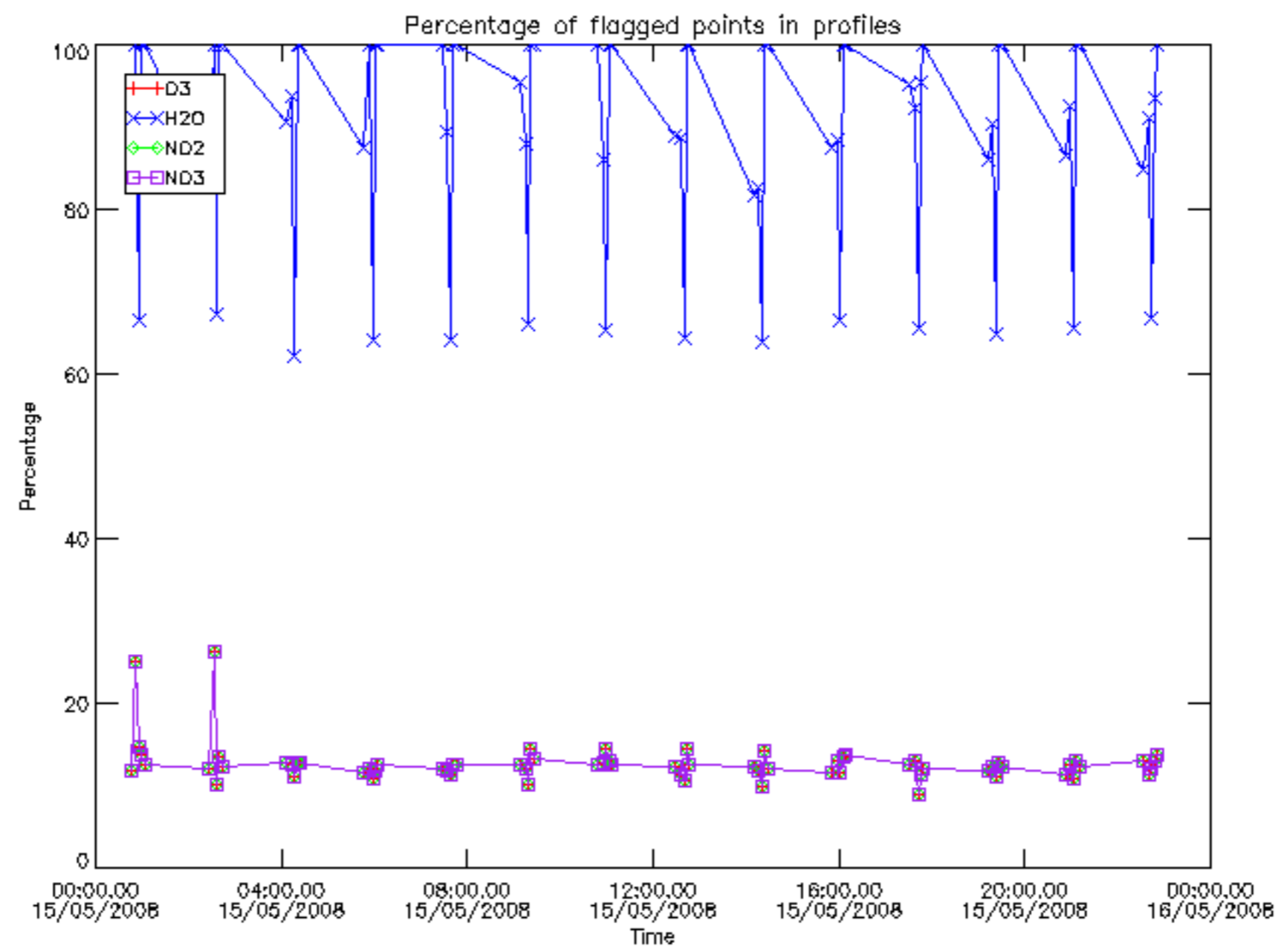
The colorbar represents the latitude.



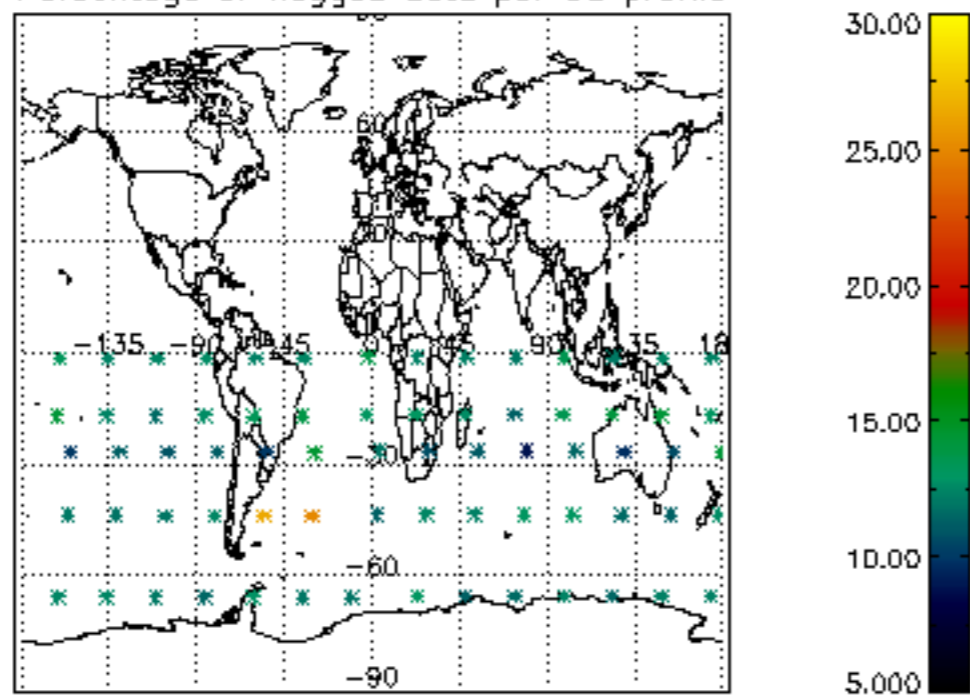
6. Auxiliary Data Files used for the production reported in section 2

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.

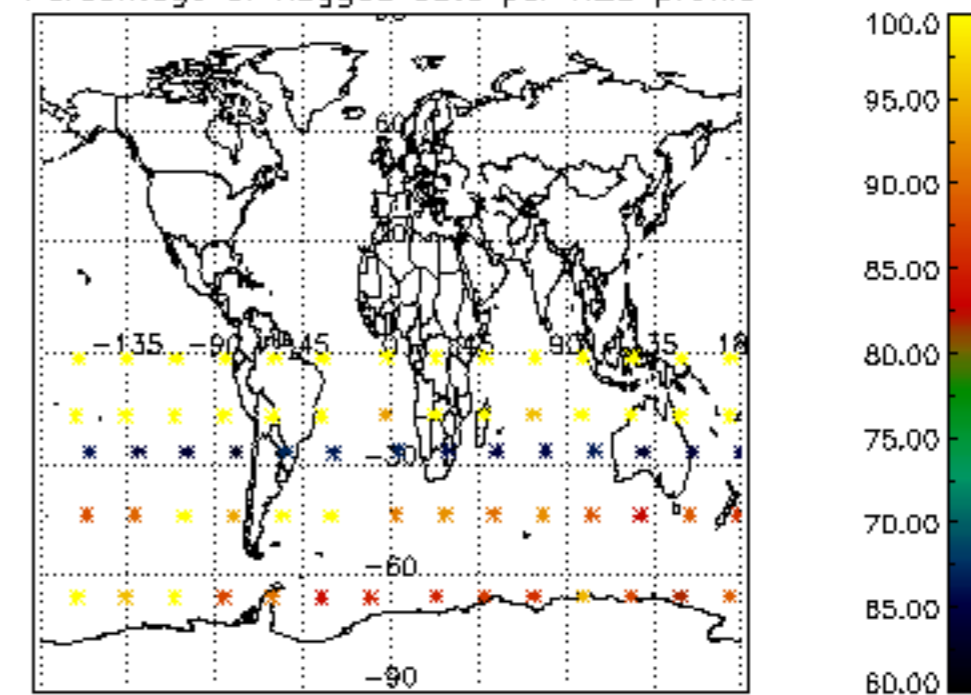
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	15-MAY-2008 00:02:52
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	15-MAY-2008 00:02:52
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	15-MAY-2008 00:02:52



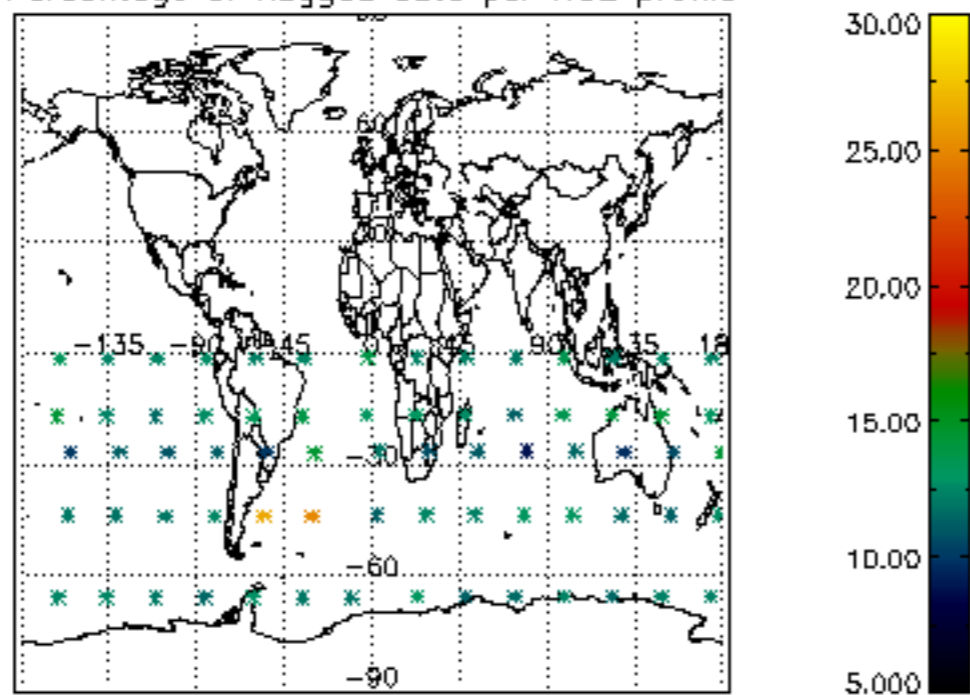
Percentage of flagged data per D3 profile



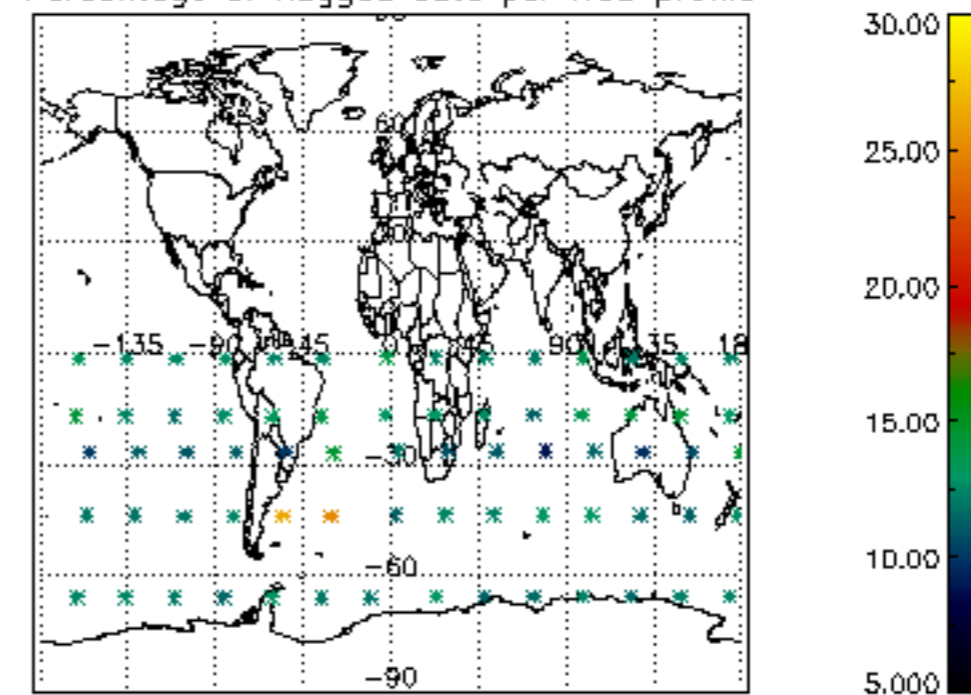
Percentage of flagged data per H2O profile

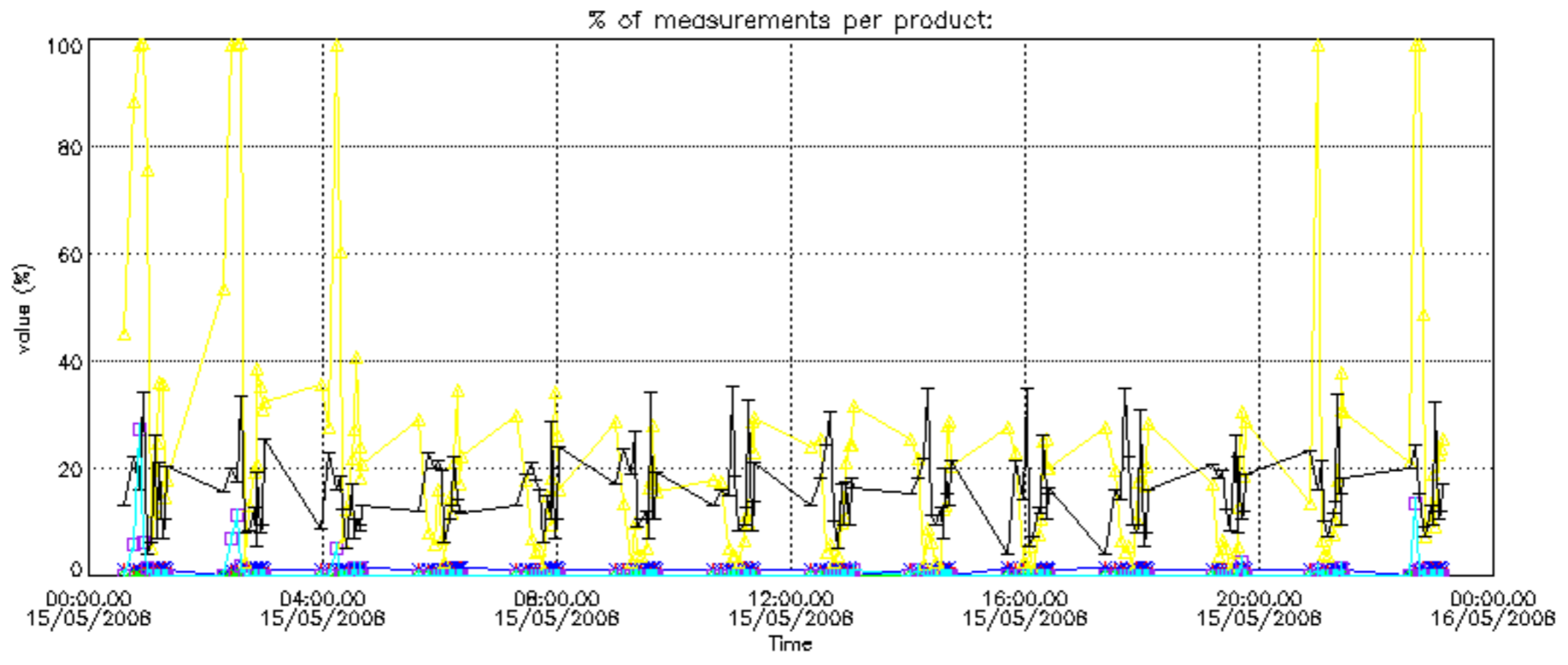


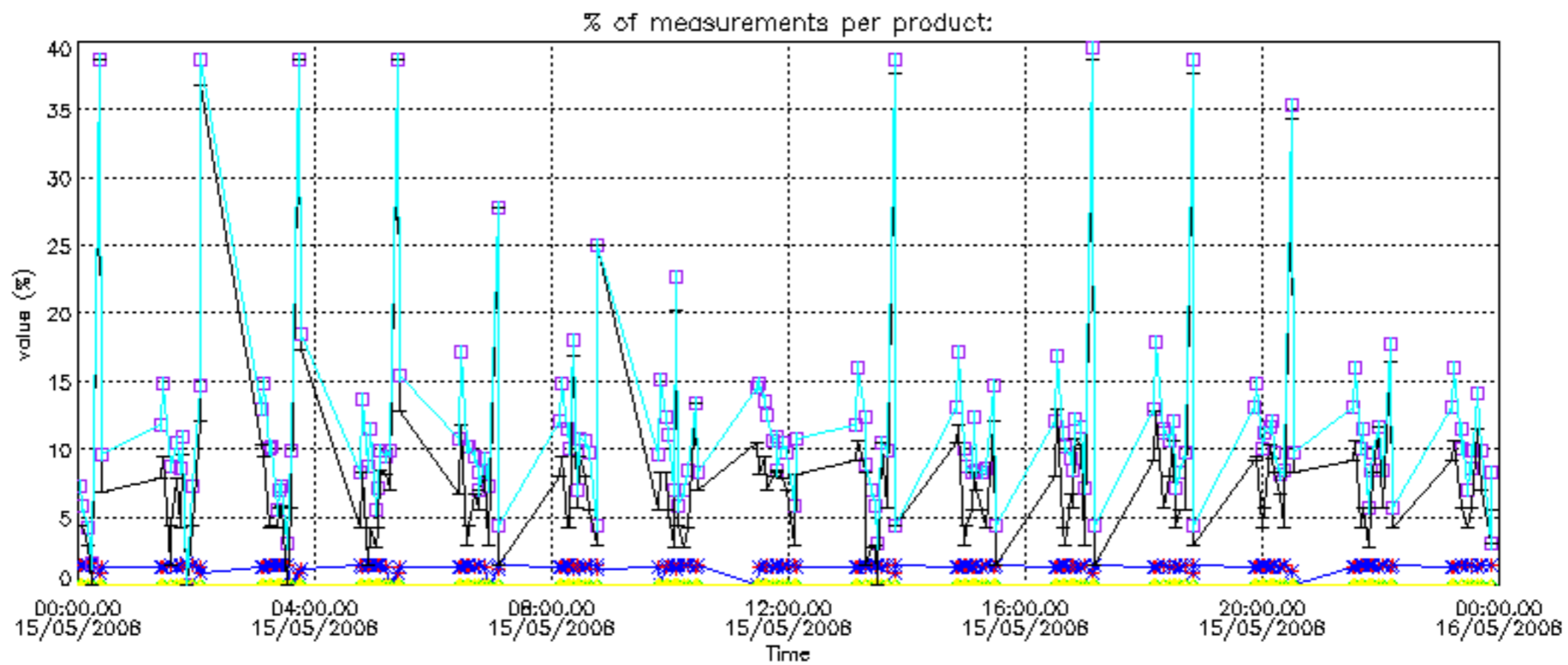
Percentage of flagged data per NO2 profile



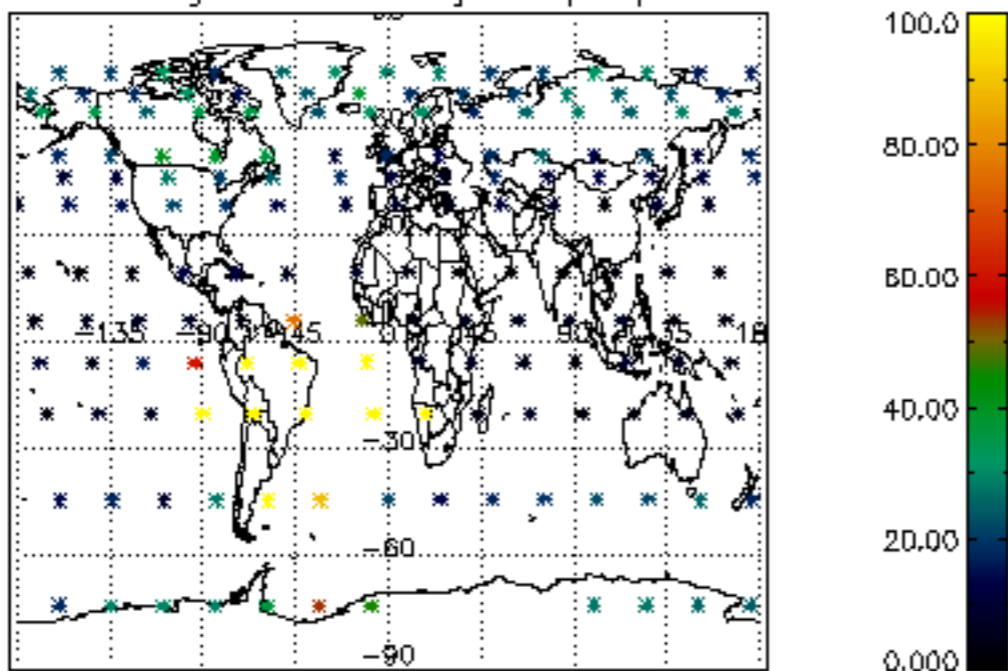
Percentage of flagged data per NO3 profile



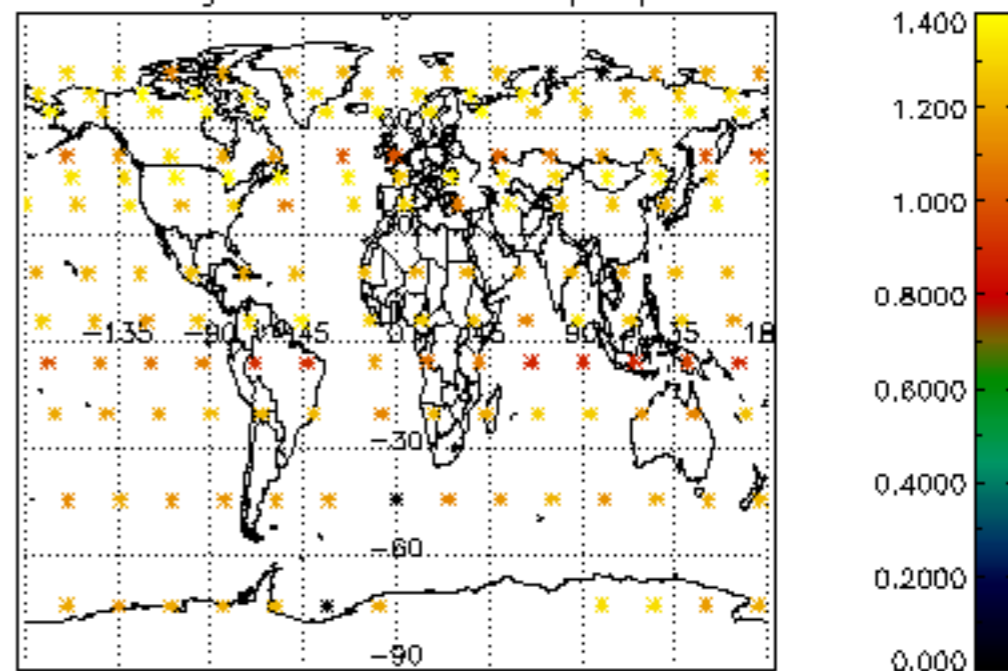




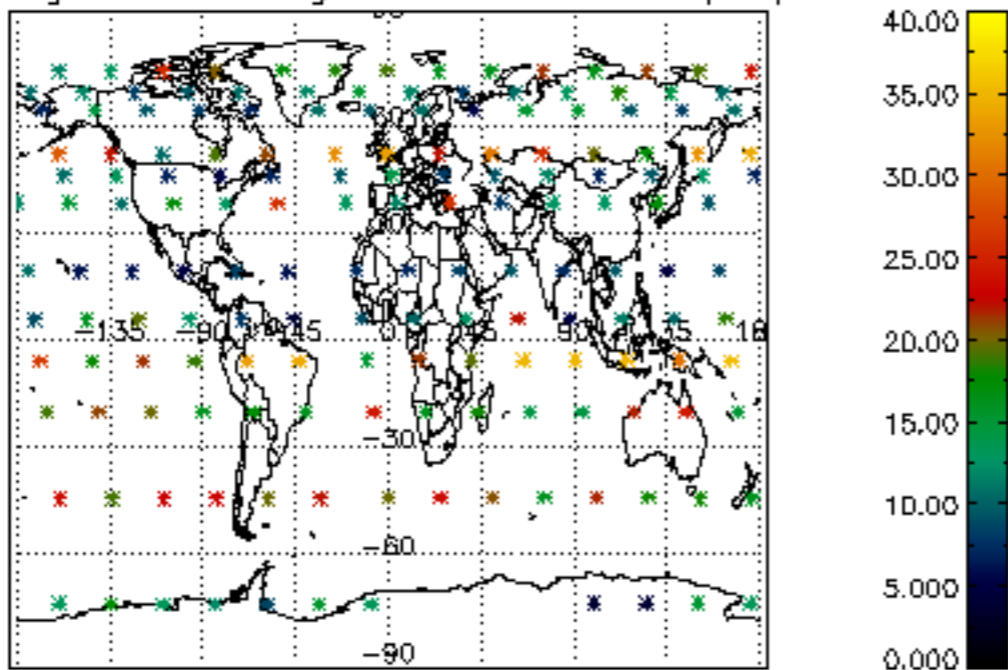
Percentage of cosmic ray hits per profile



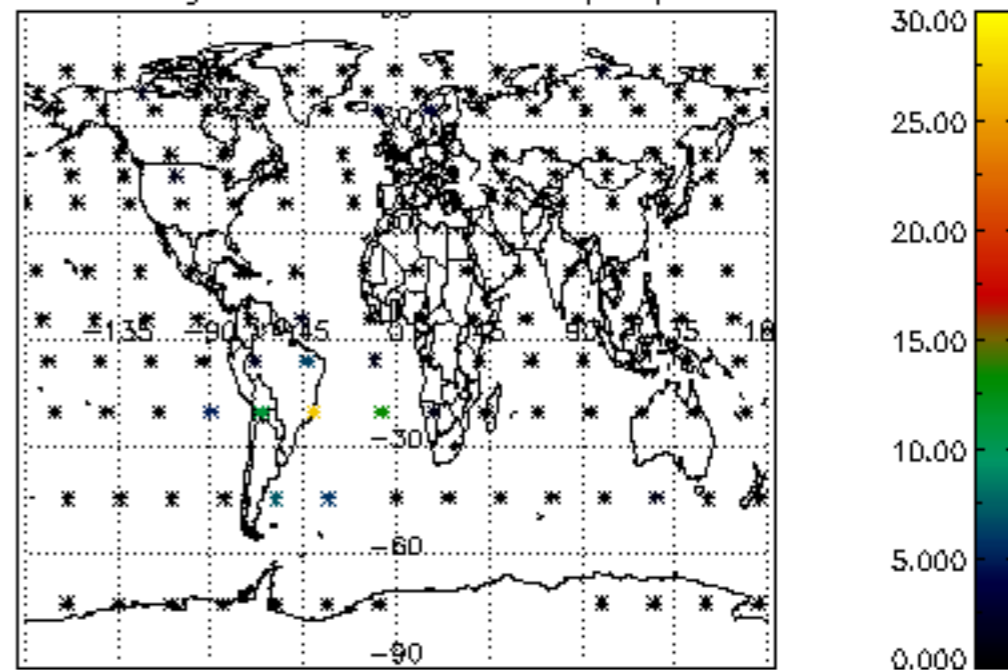
Percentage of datation errors per profile



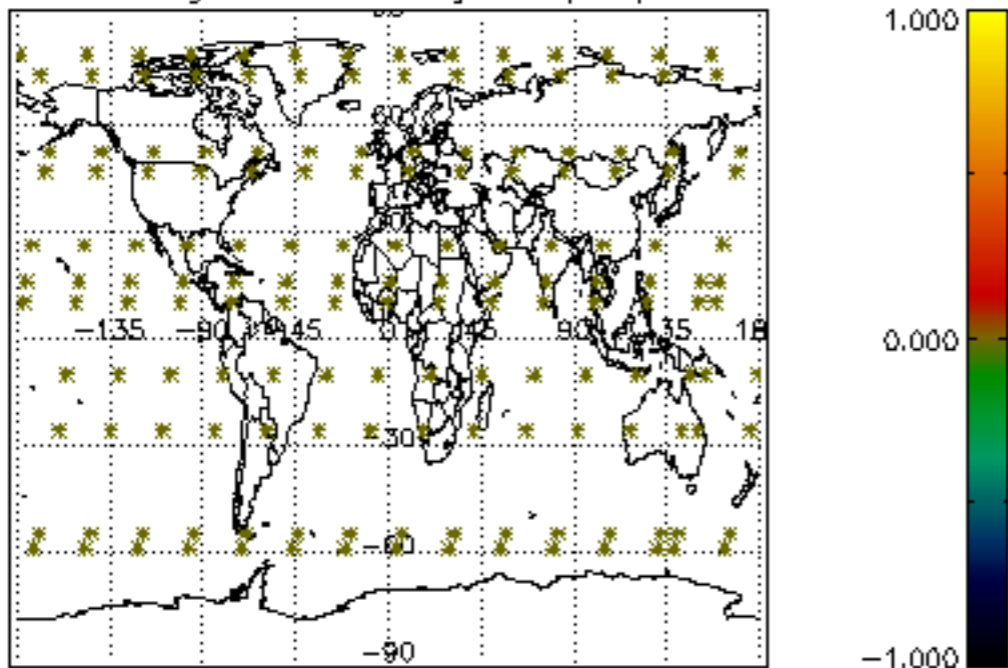
Percentage of star falling outside central band per profile



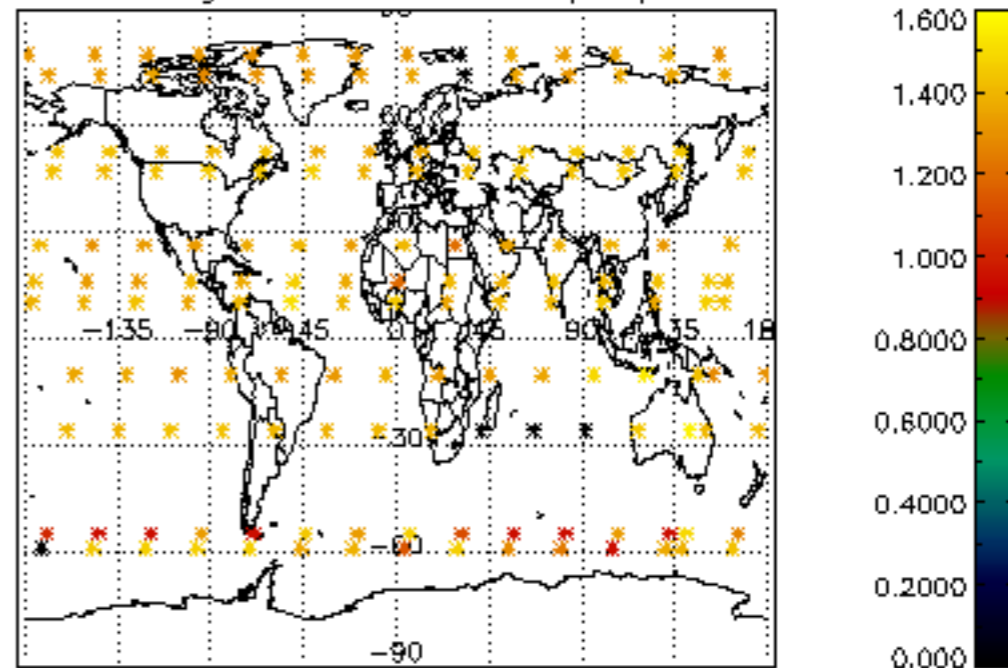
Percentage of saturation errors per profile



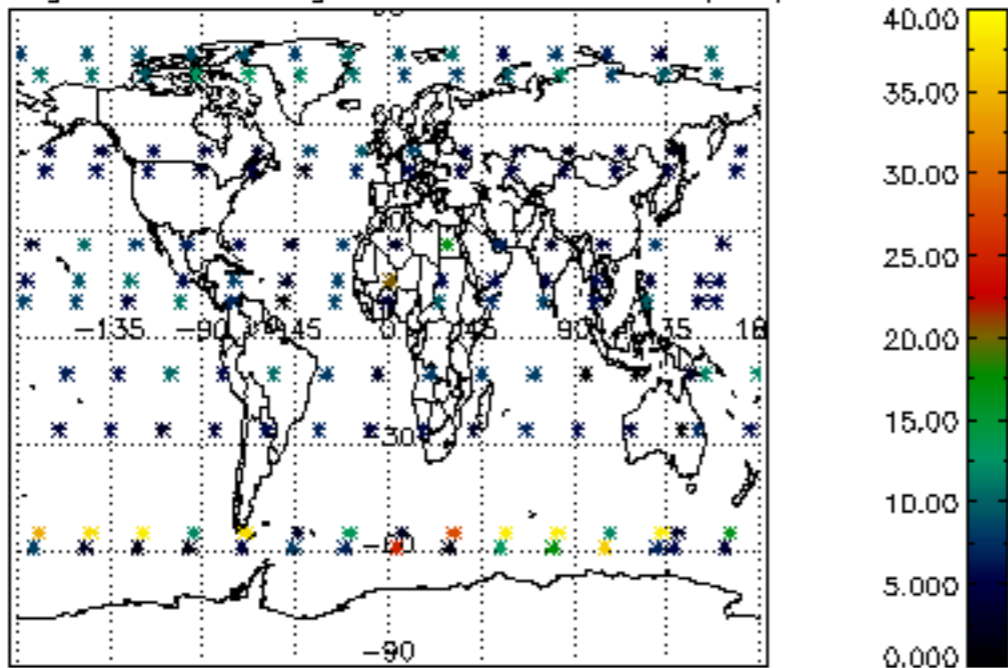
Percentage of cosmic ray hits per profile



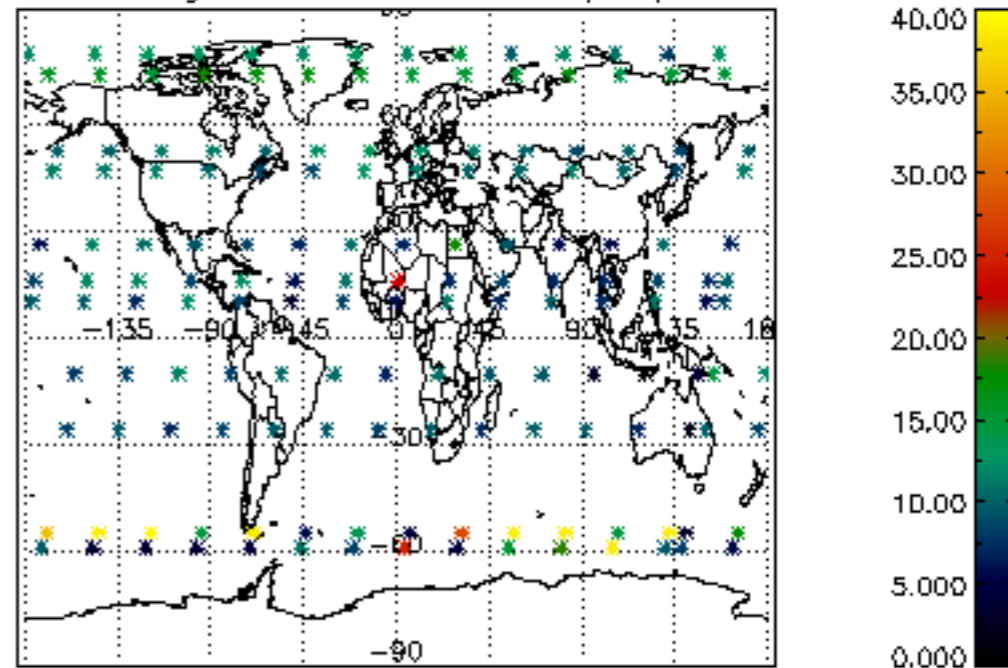
Percentage of datation errors per profile

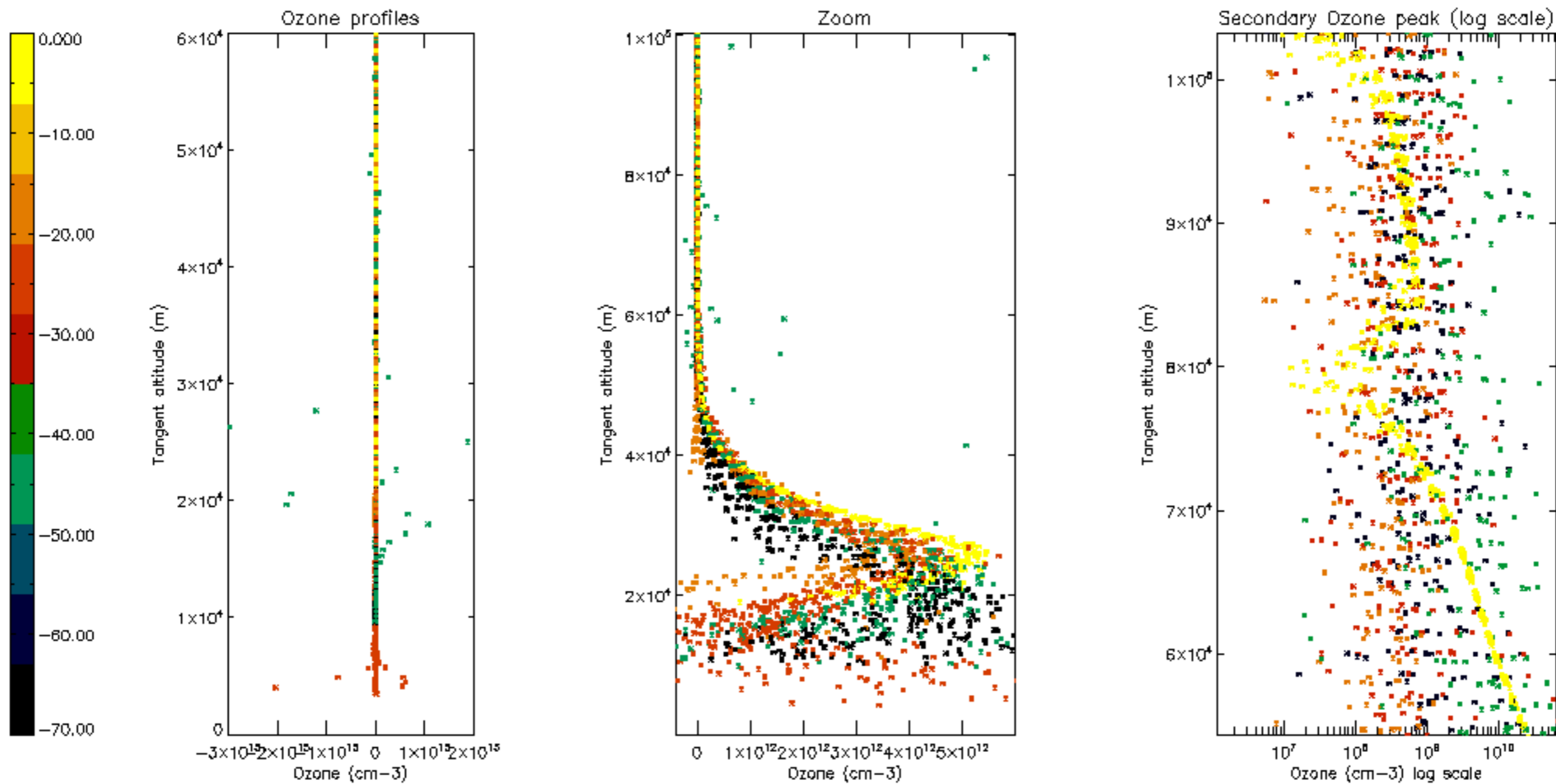


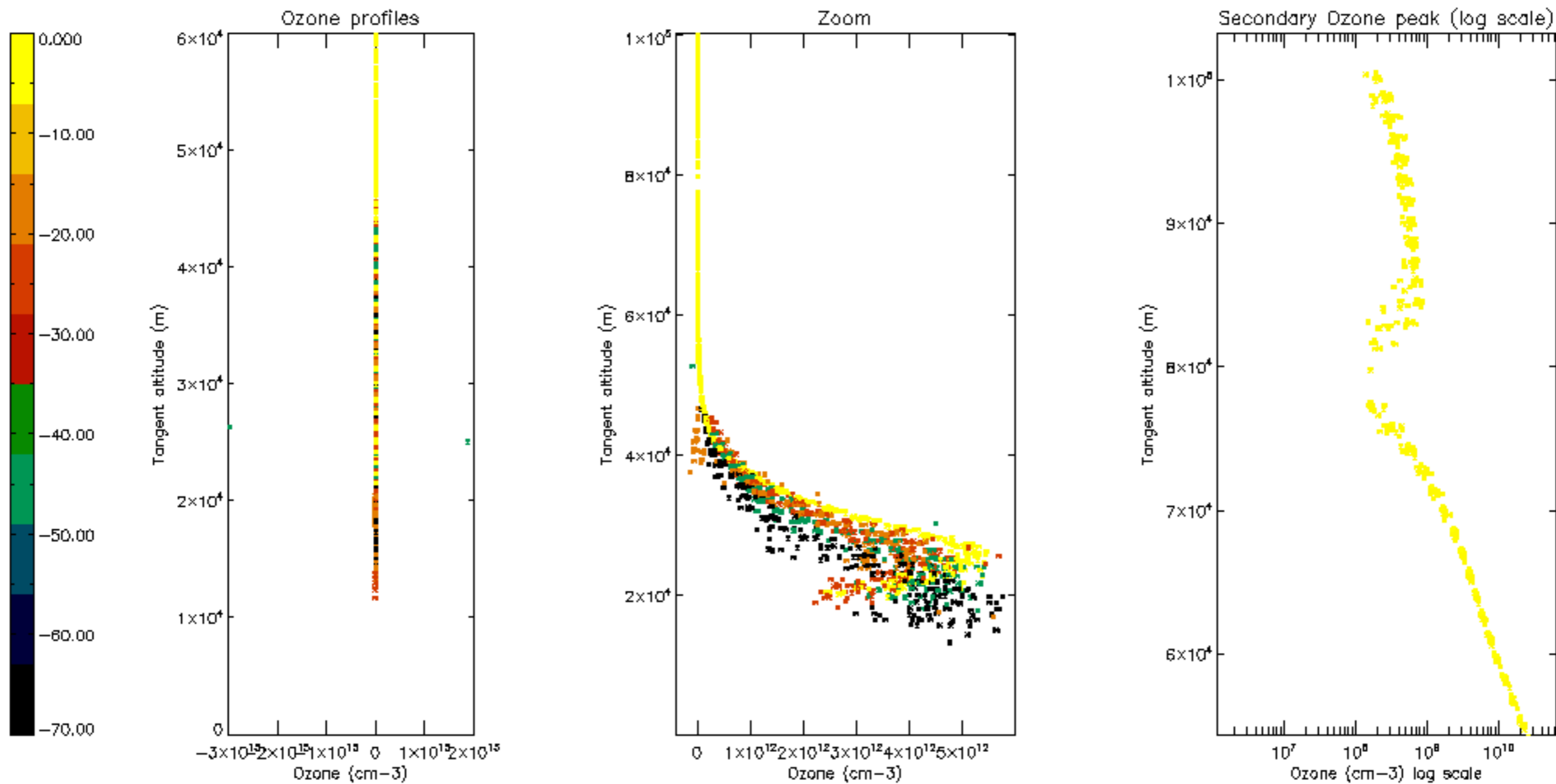
Percentage of star falling outside central band per profile

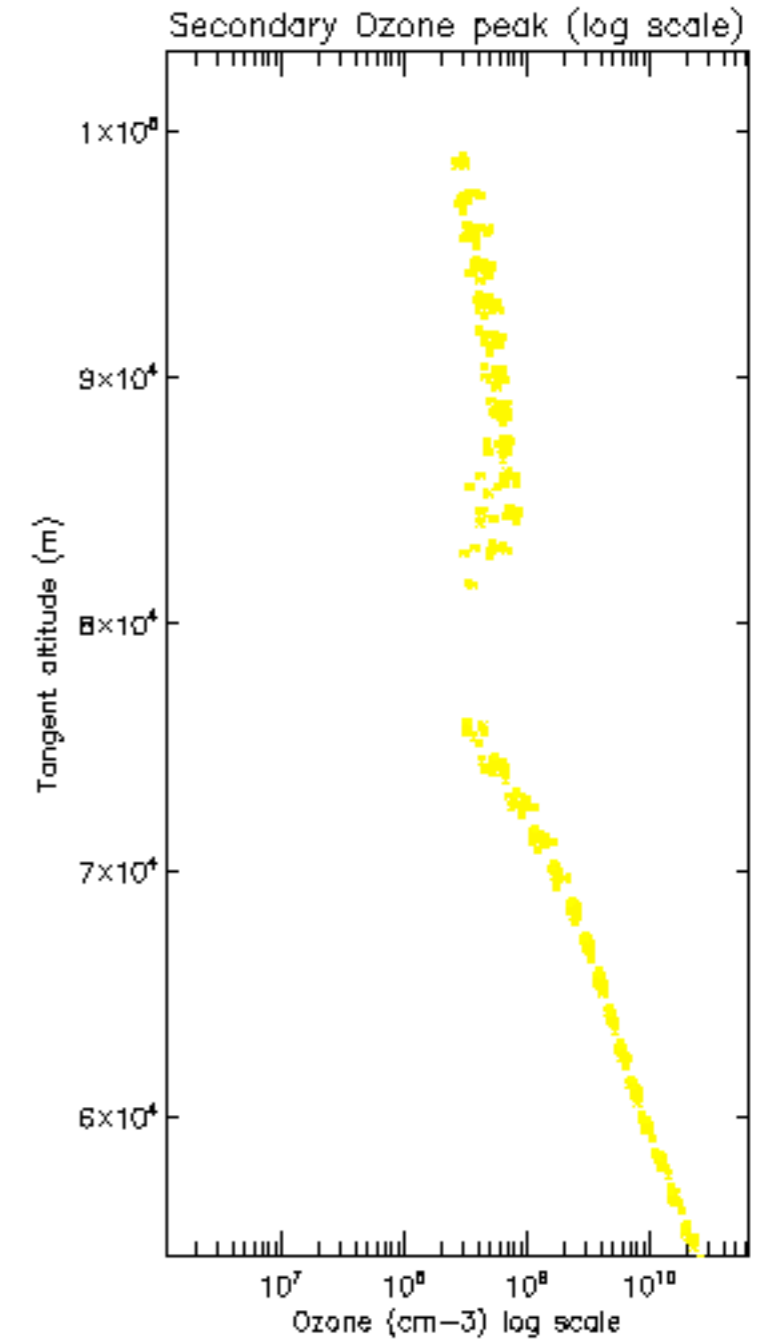
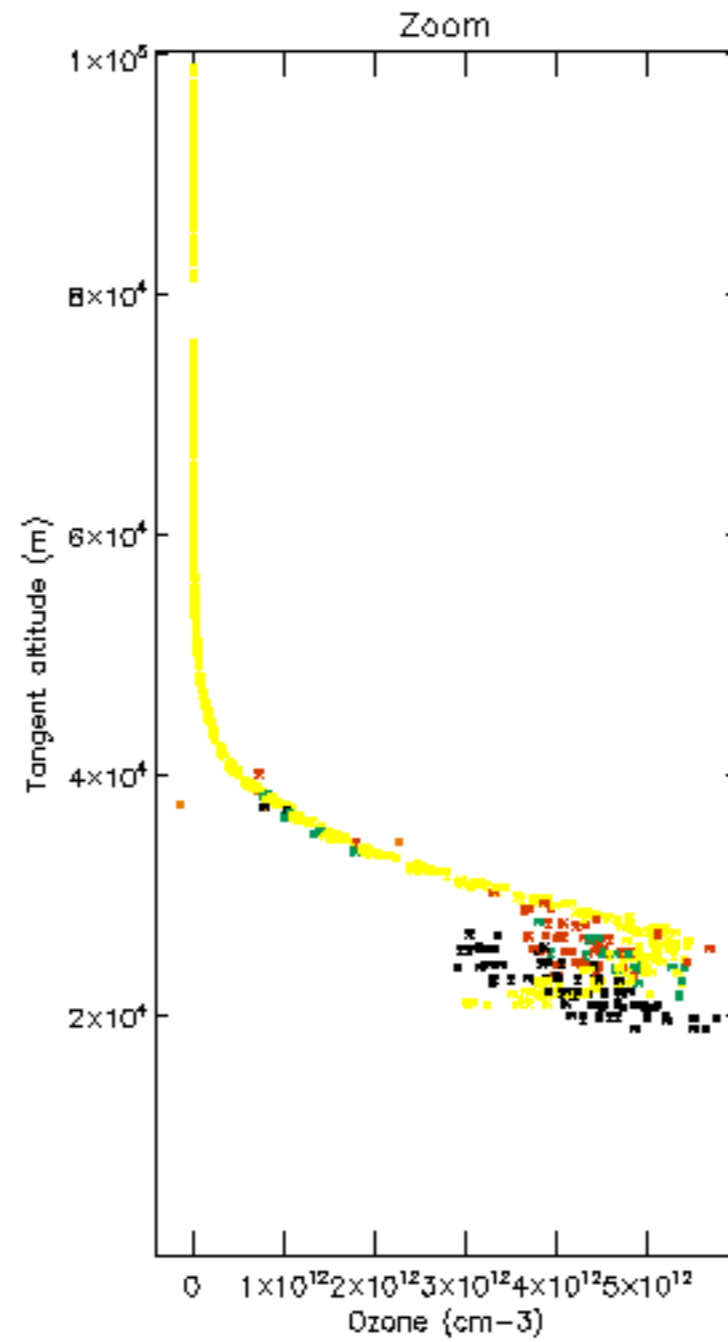
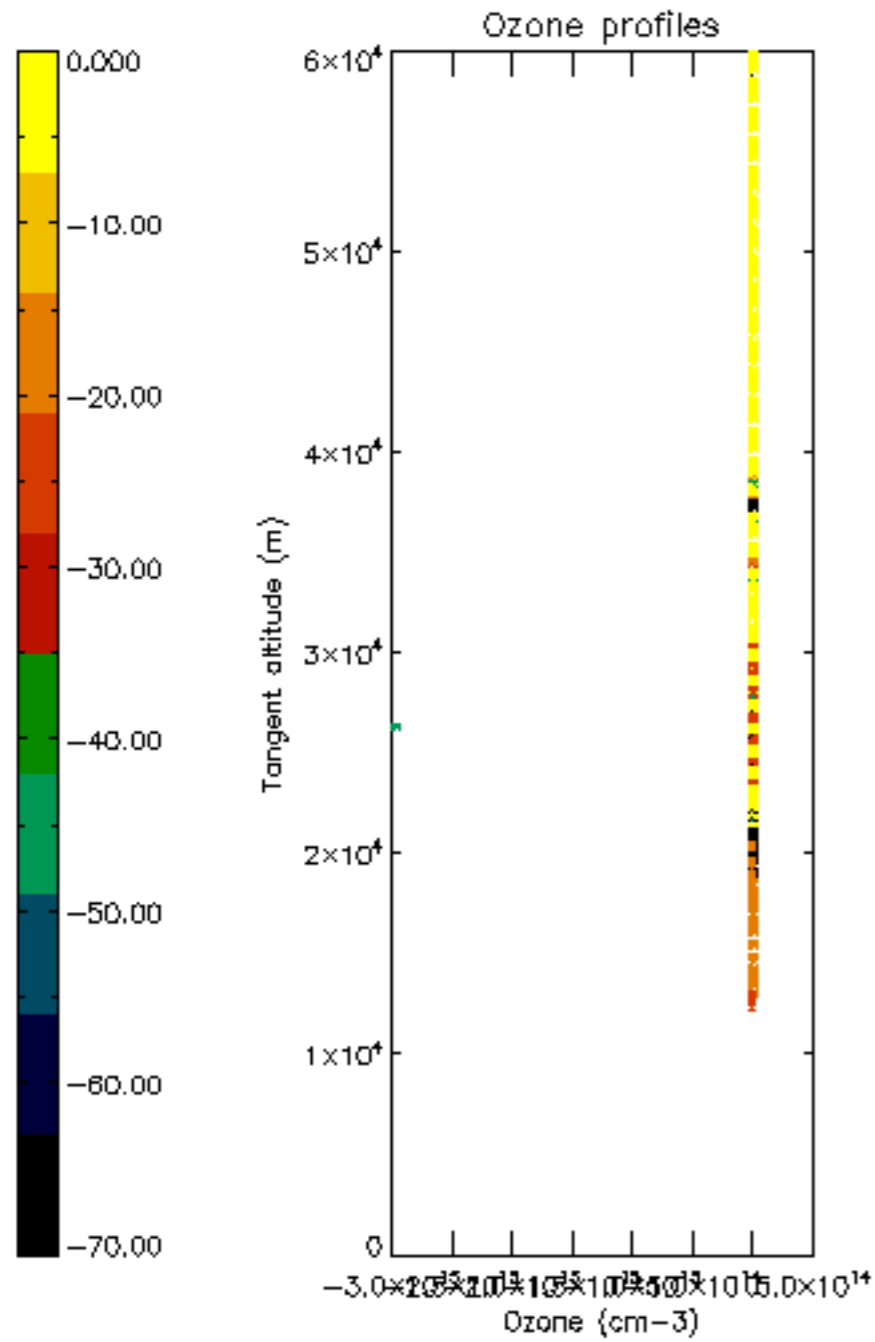


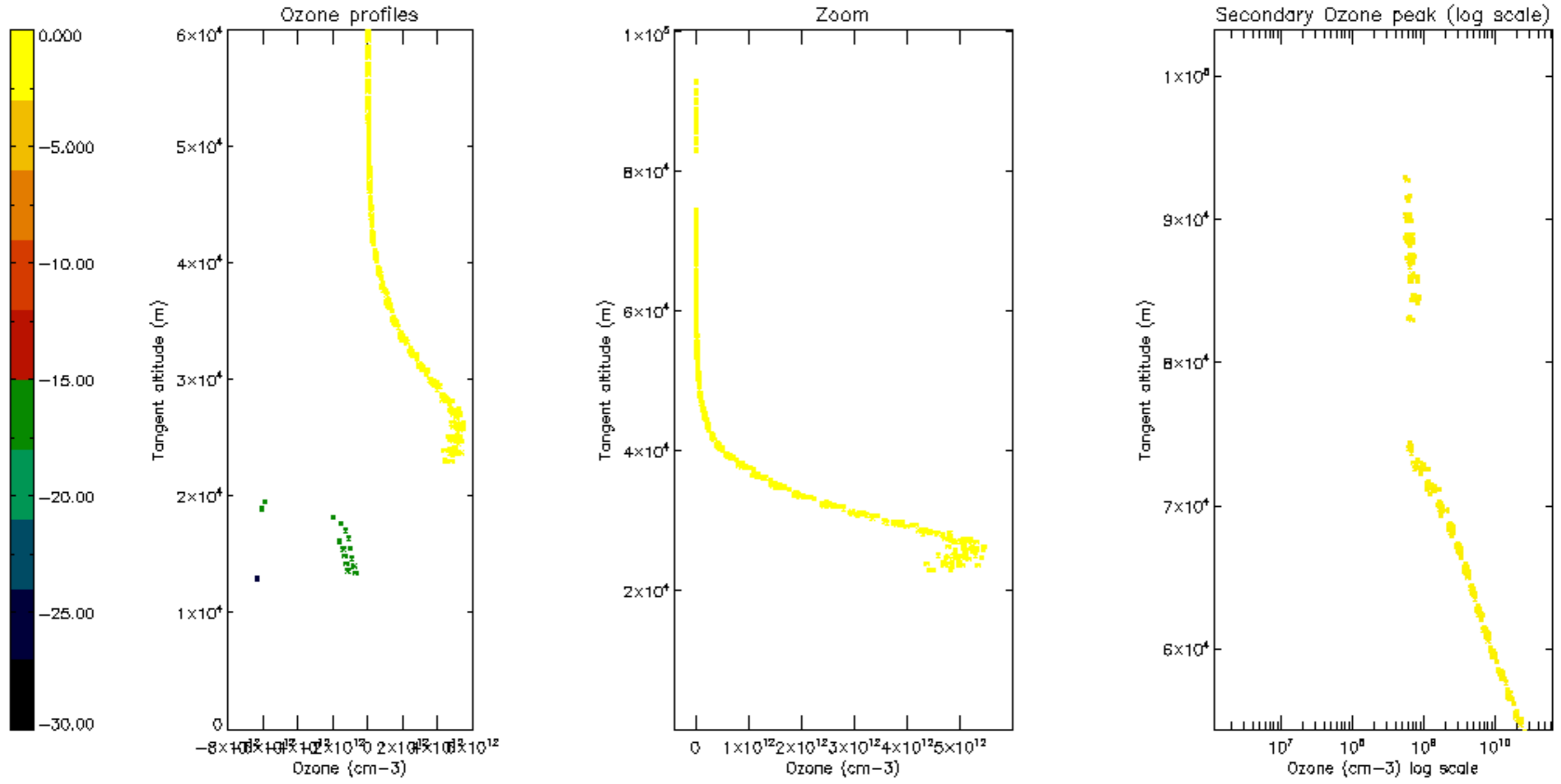
Percentage of saturation errors per profile

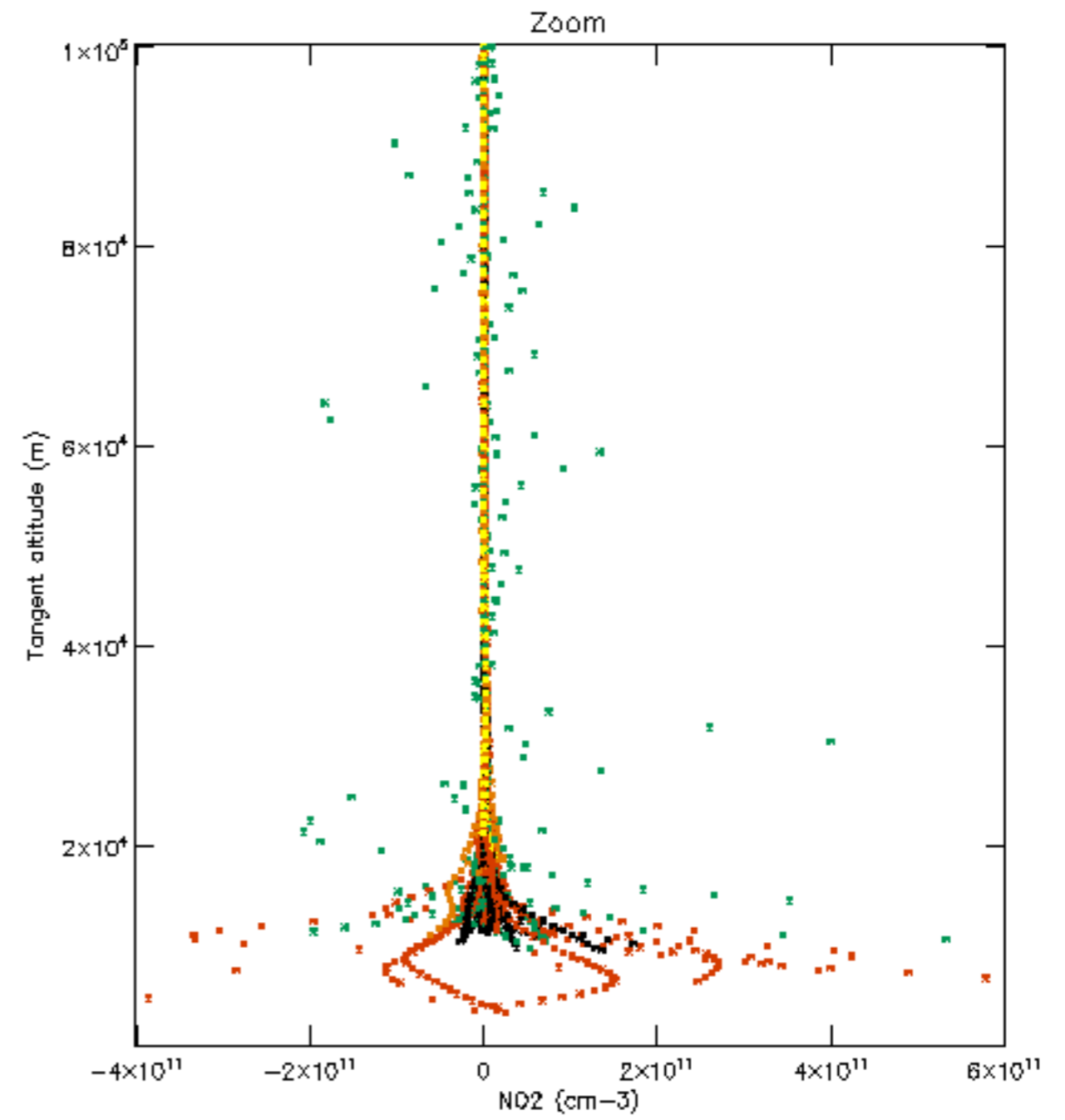
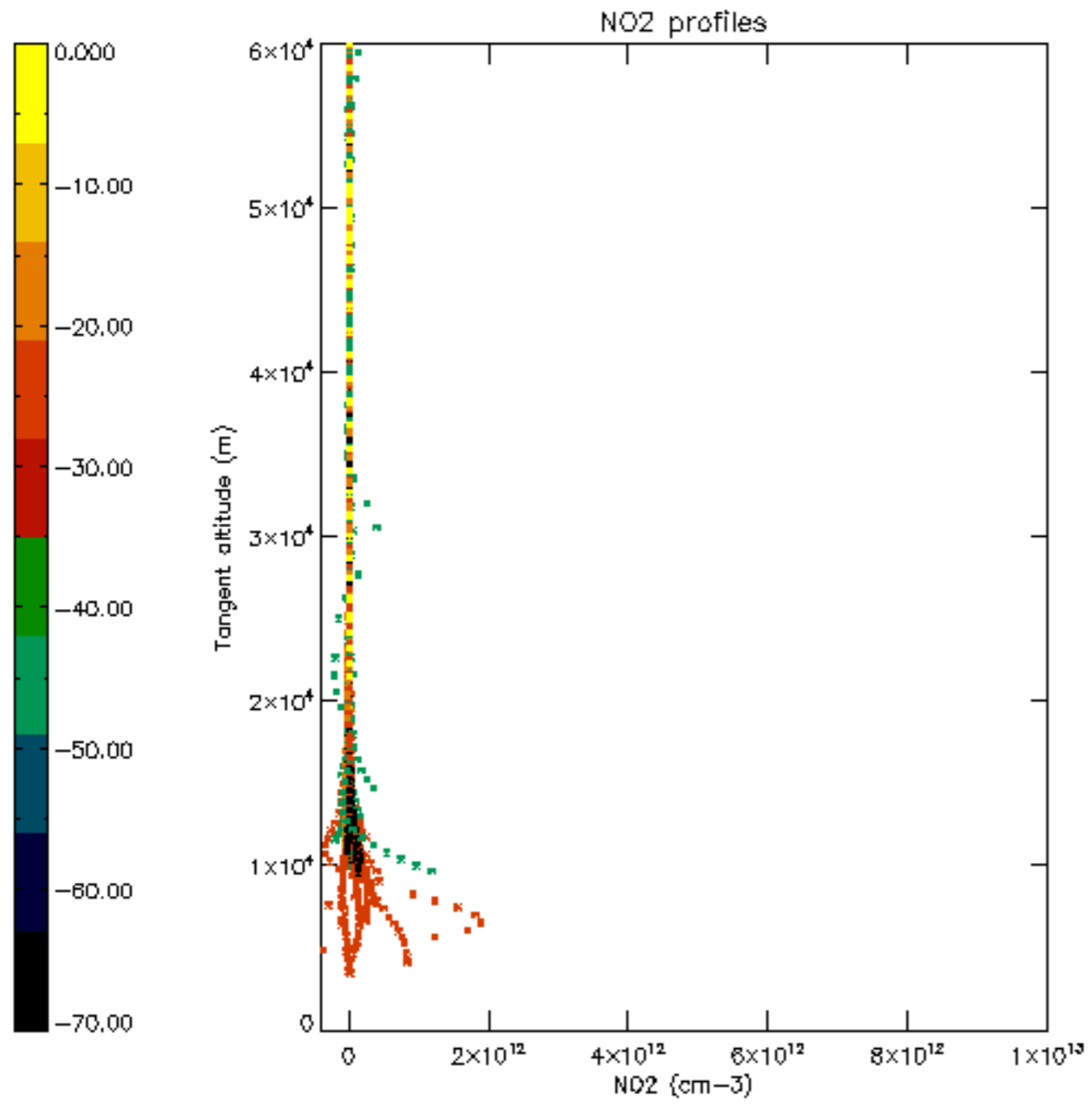


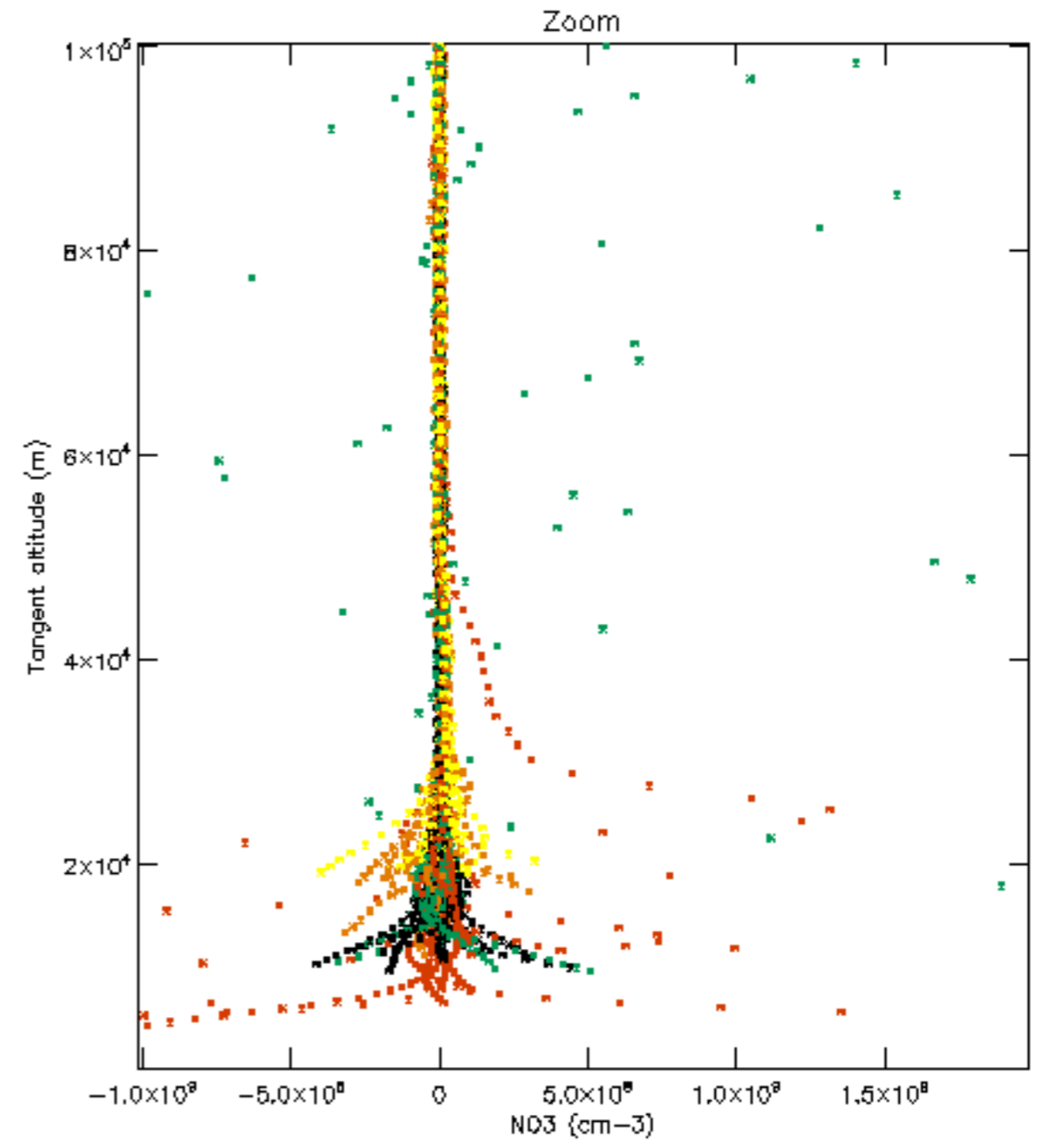
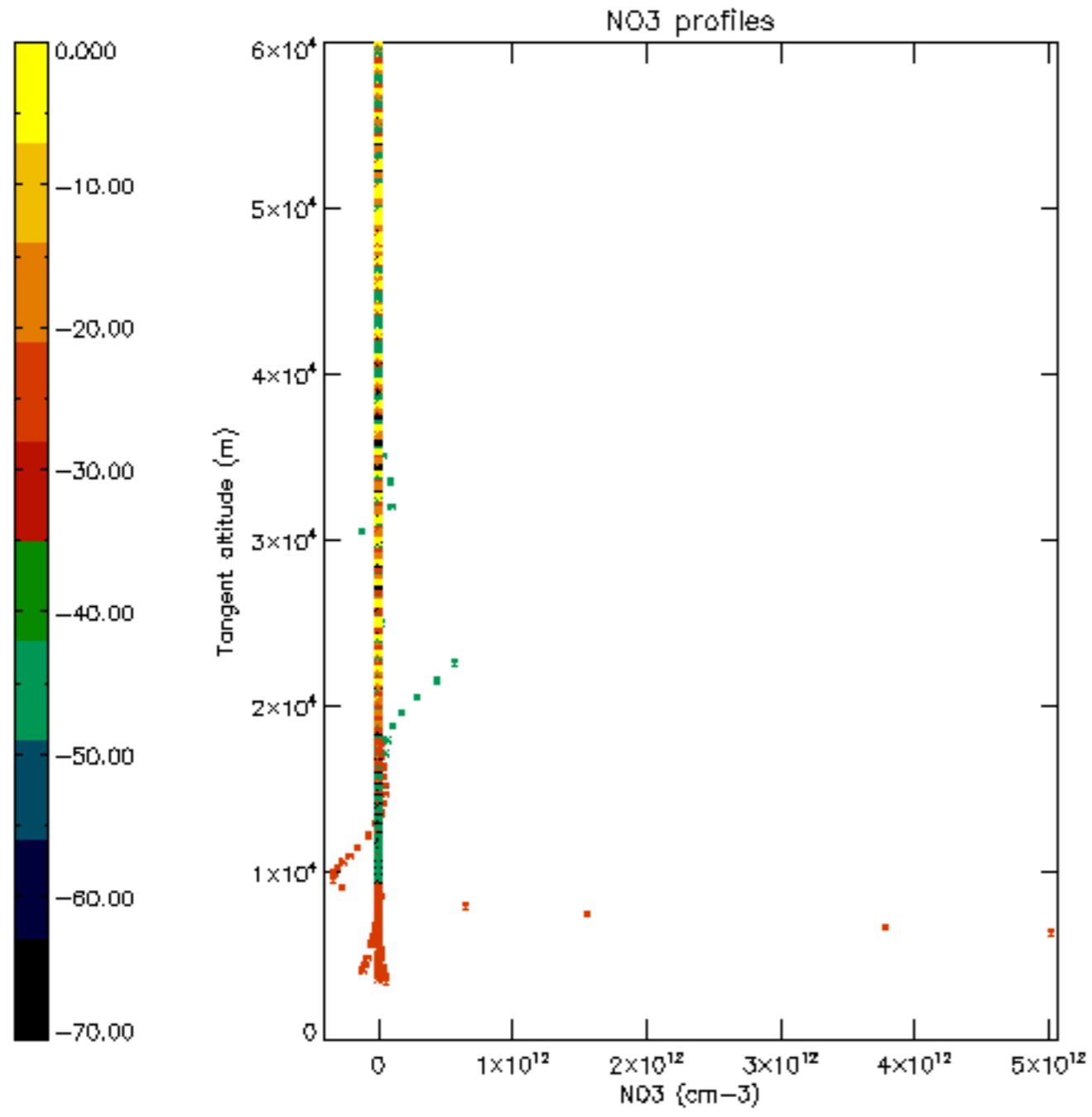


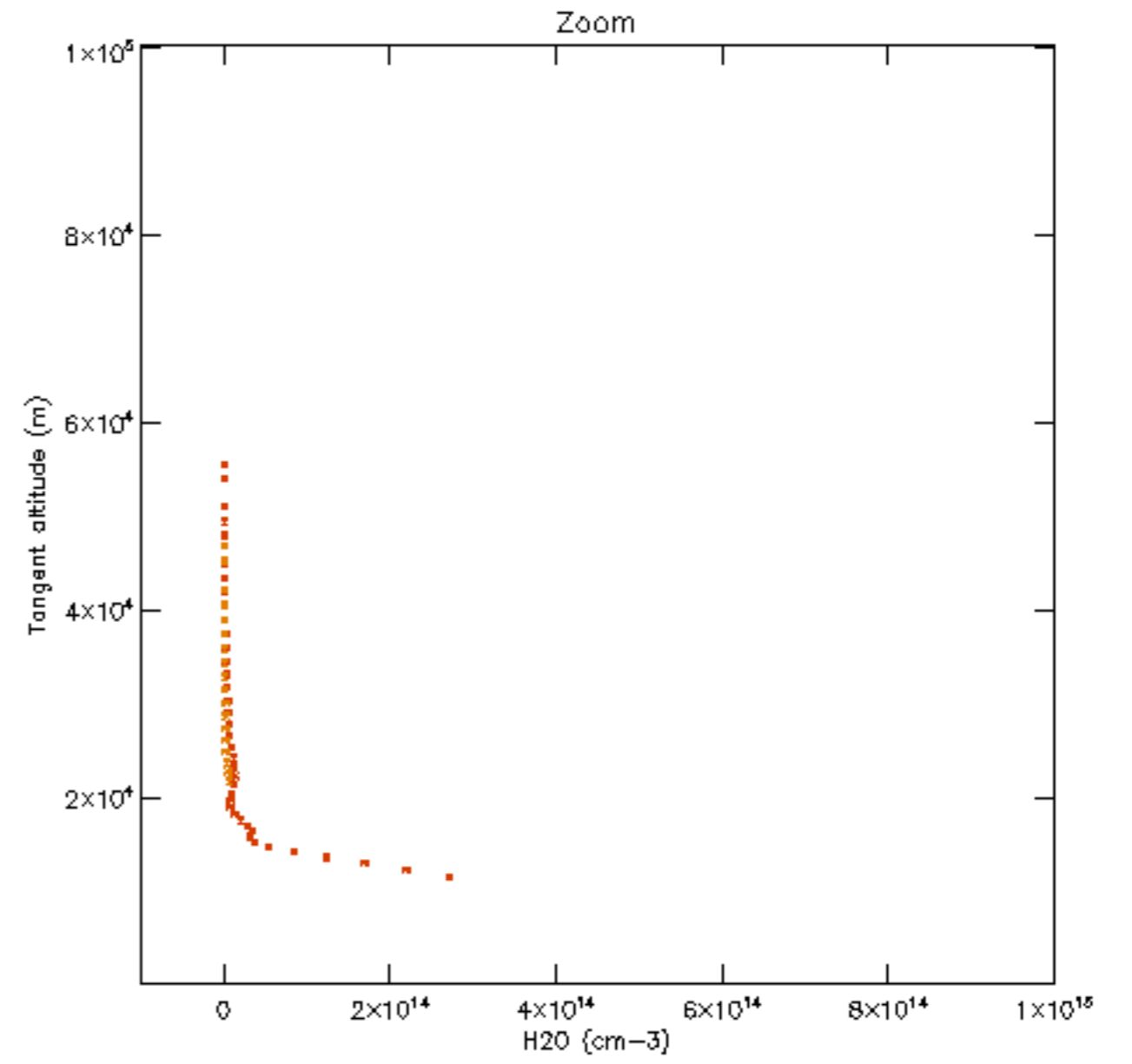
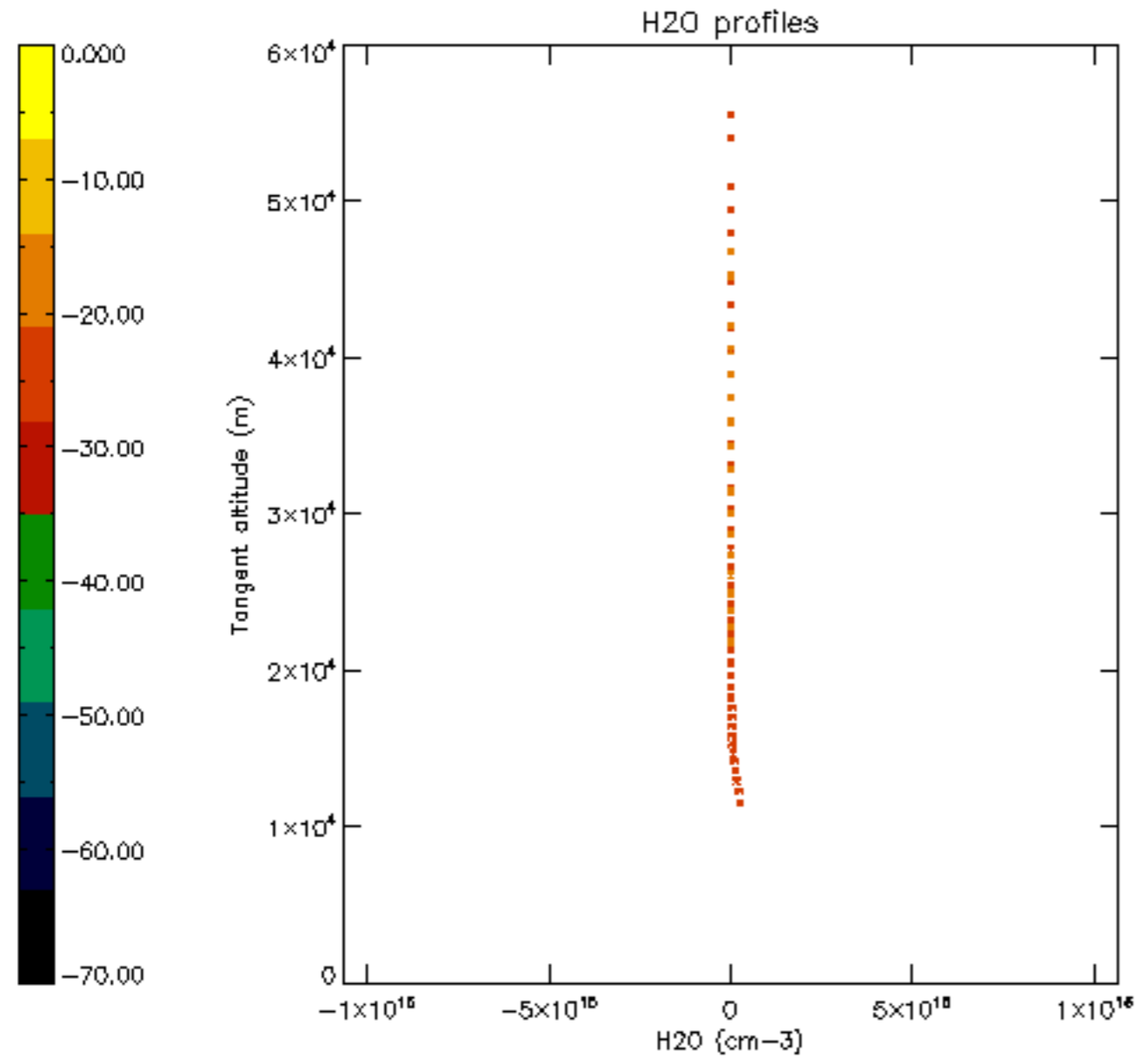


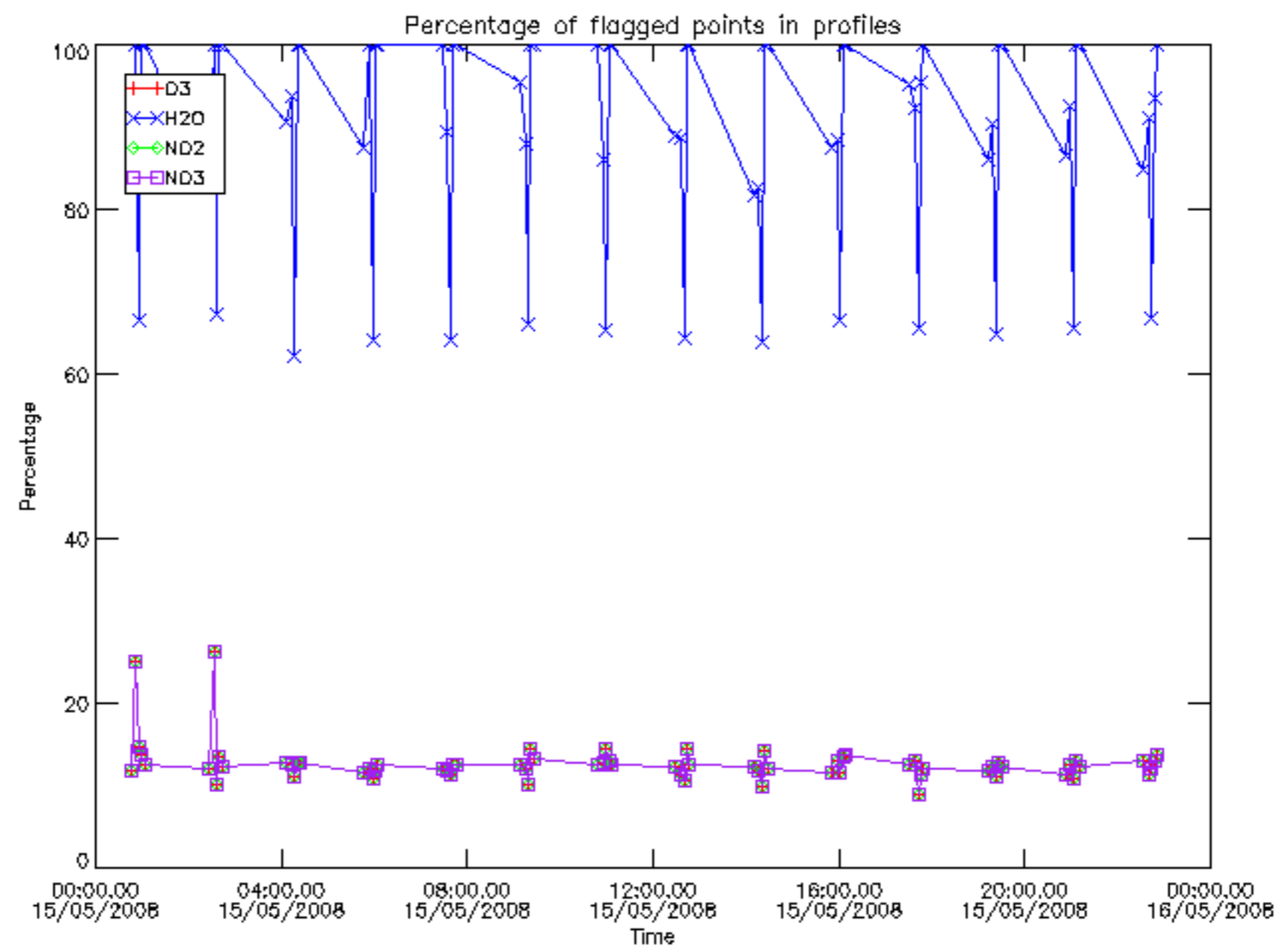




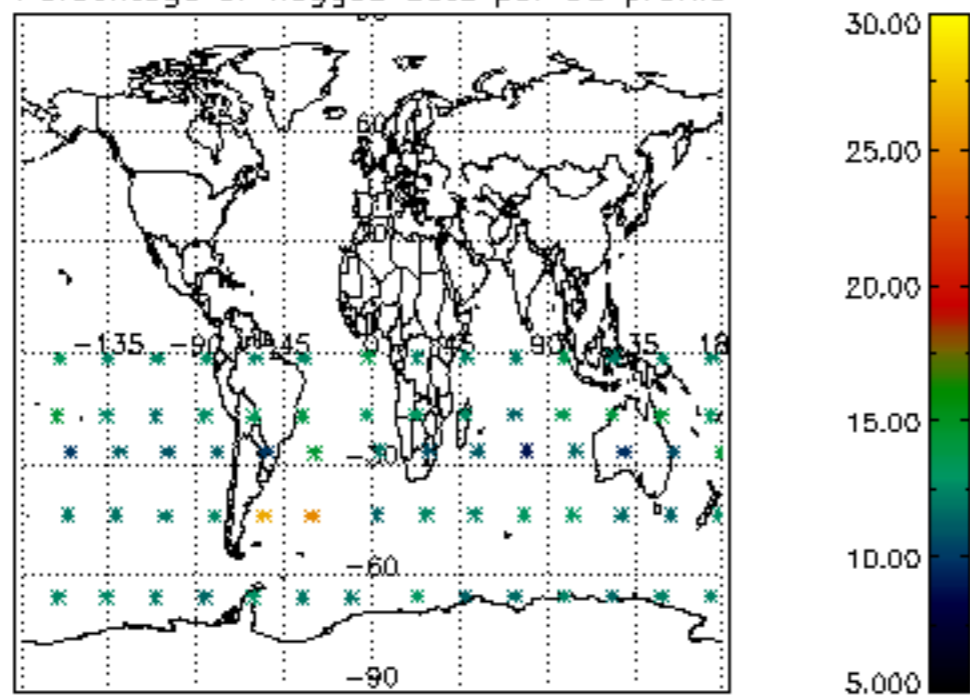




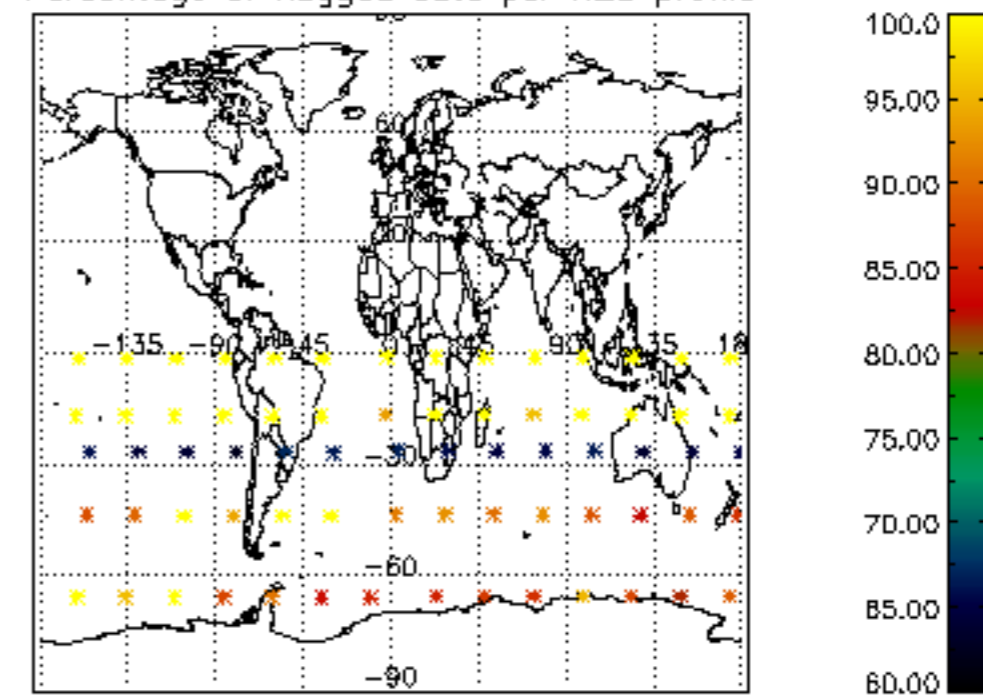




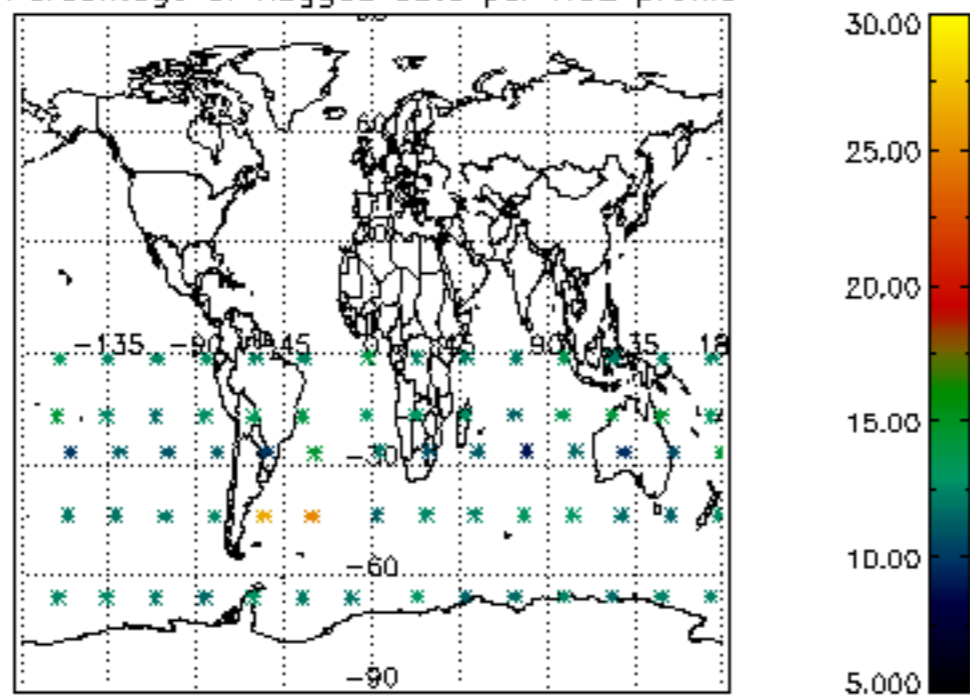
Percentage of flagged data per D3 profile



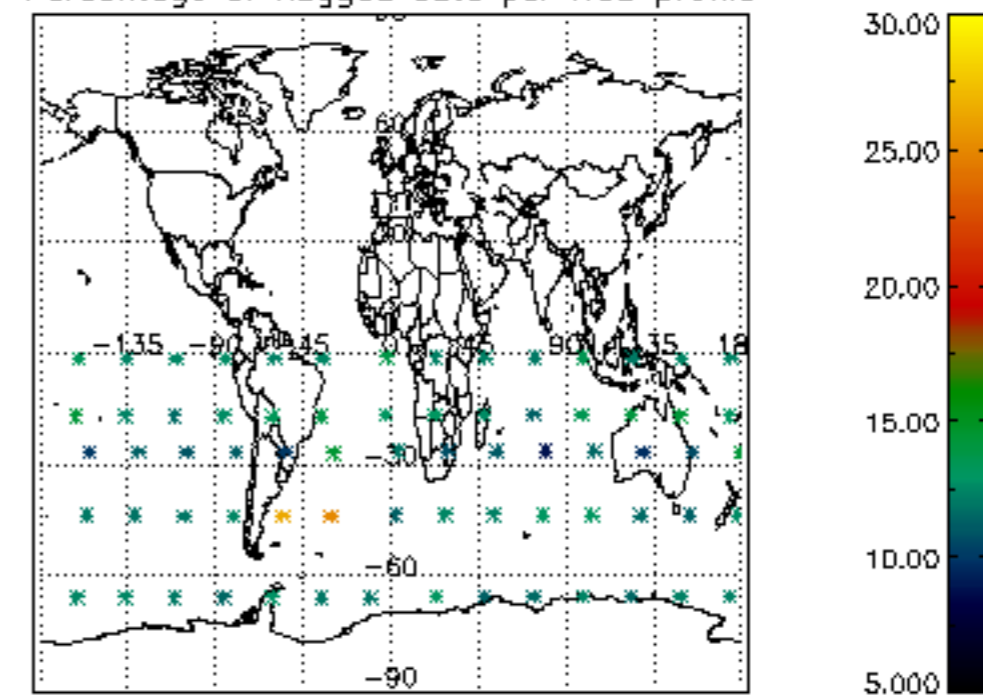
Percentage of flagged data per H2O profile

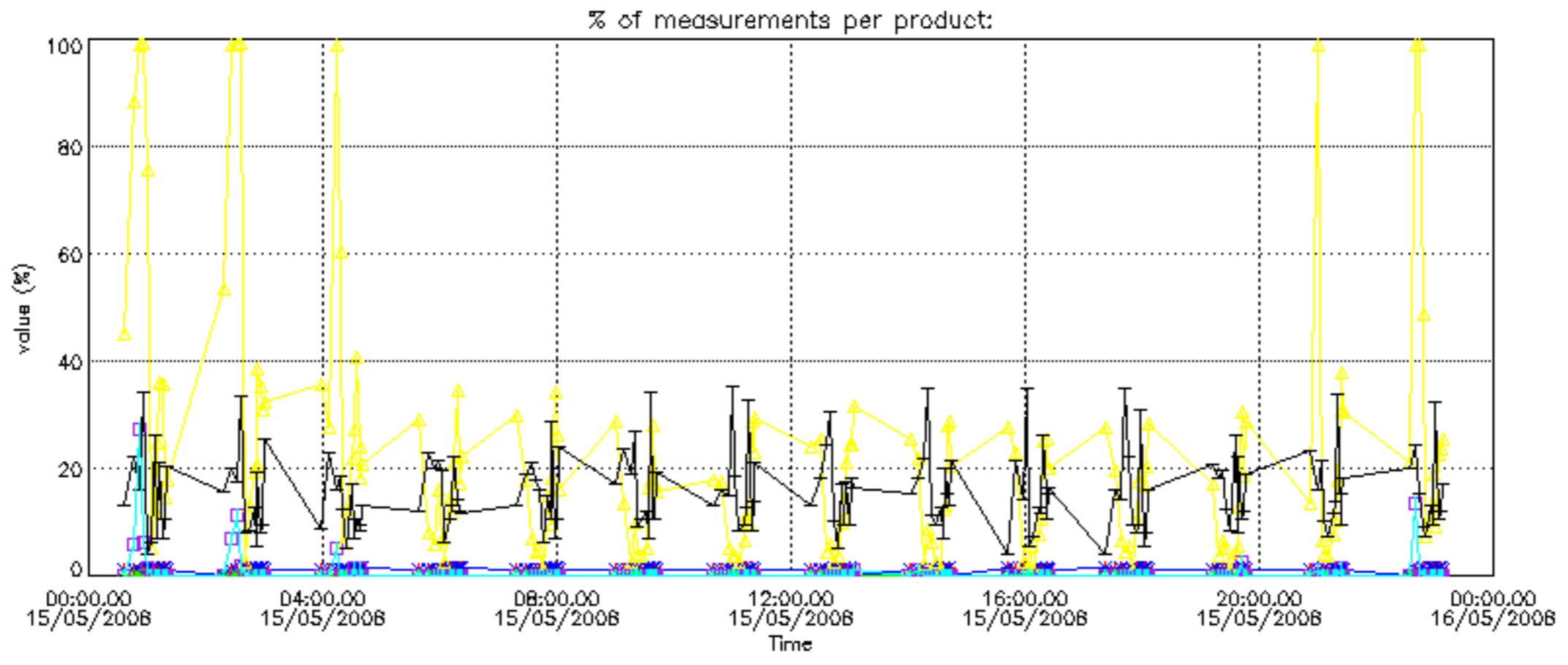


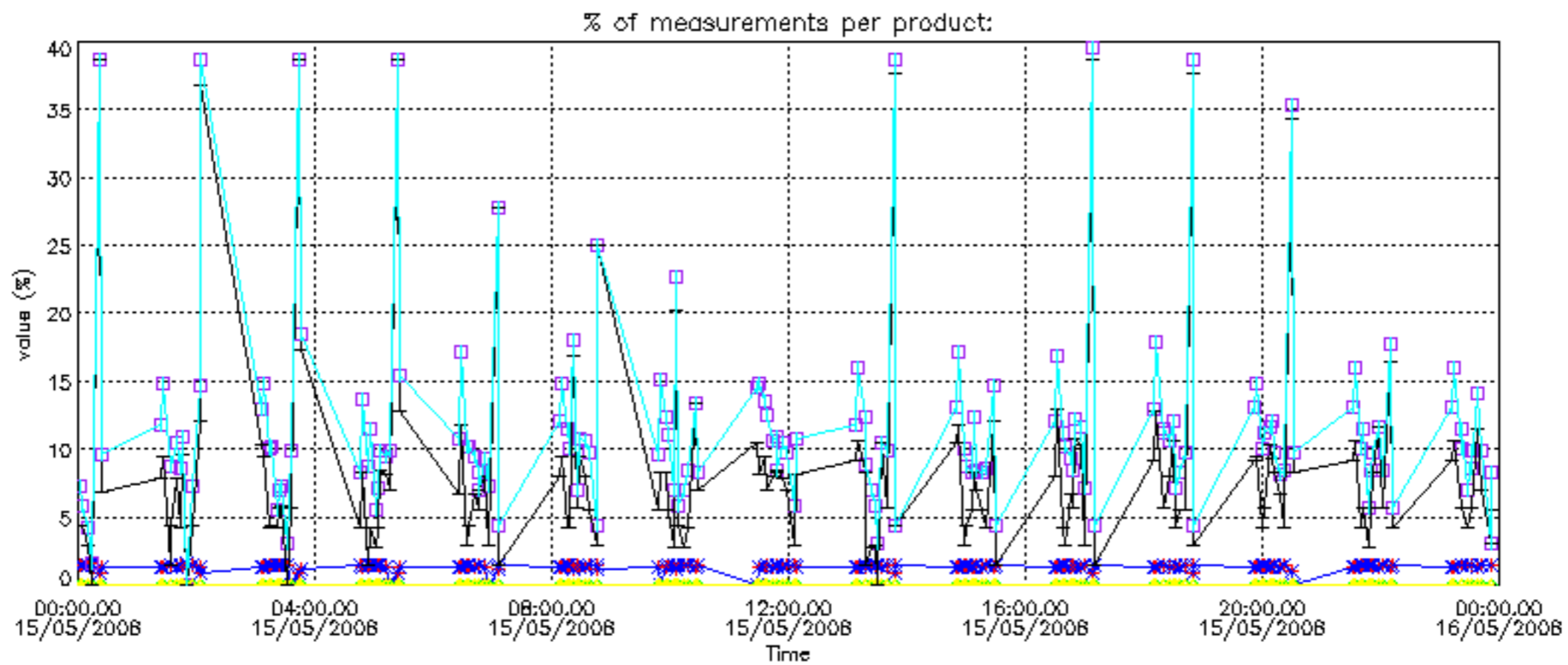
Percentage of flagged data per NO2 profile



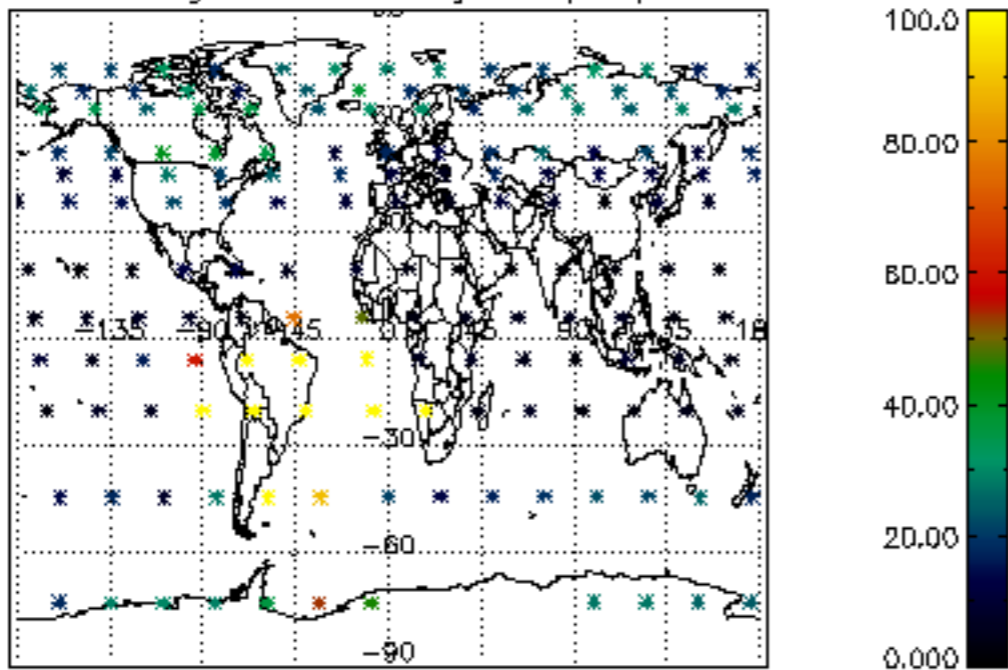
Percentage of flagged data per NO3 profile



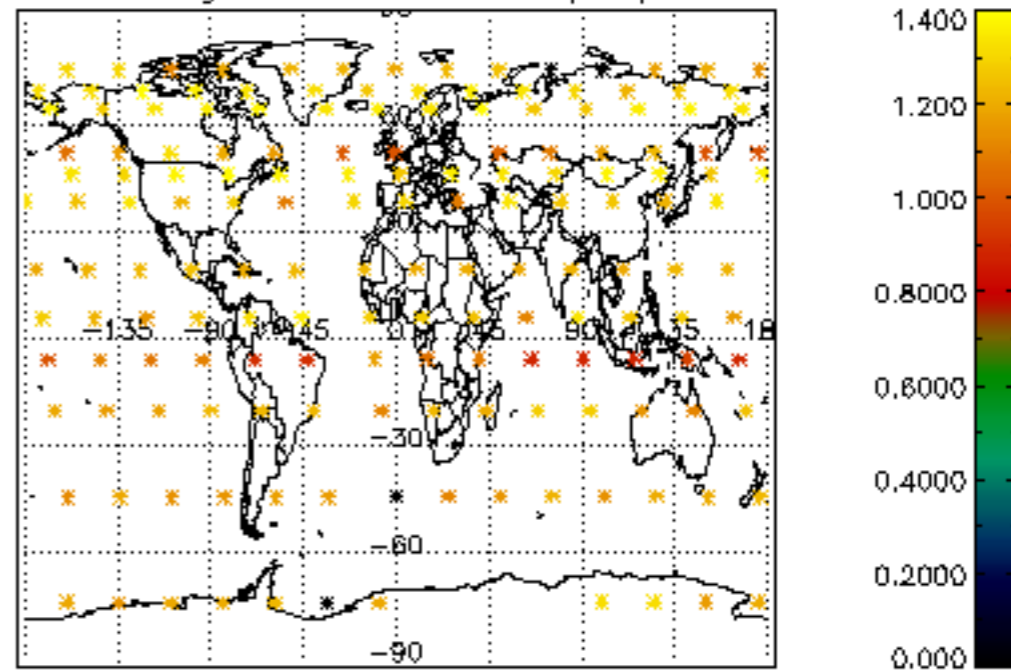




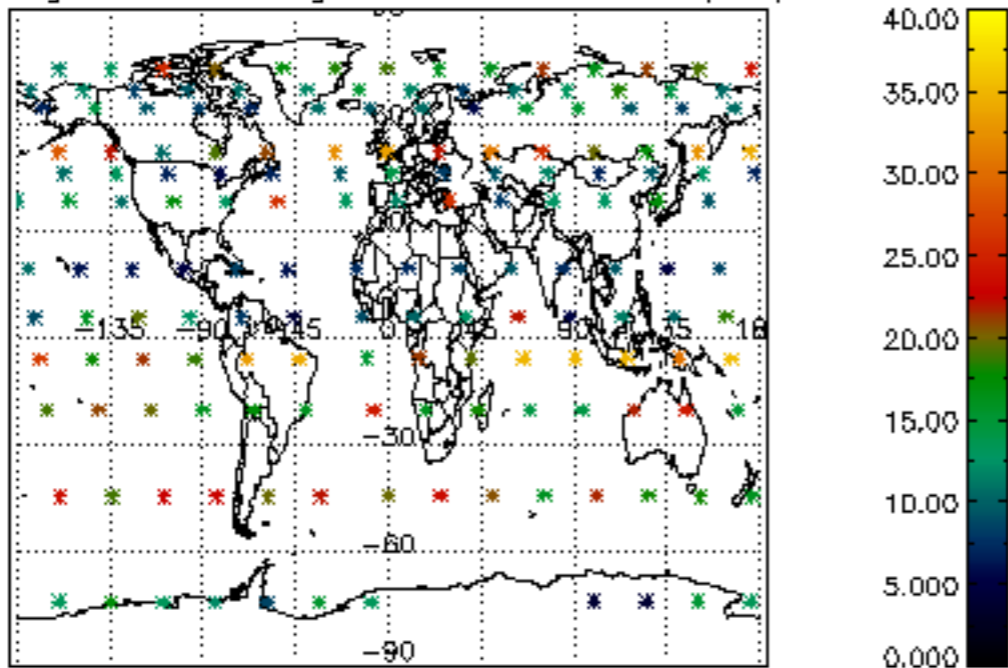
Percentage of cosmic ray hits per profile



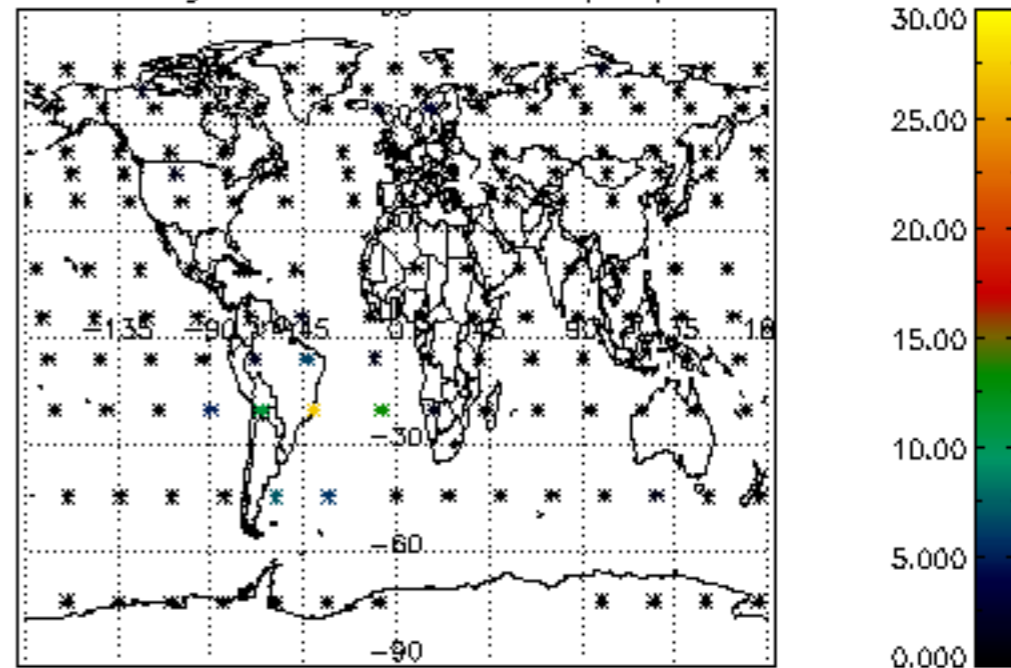
Percentage of datation errors per profile



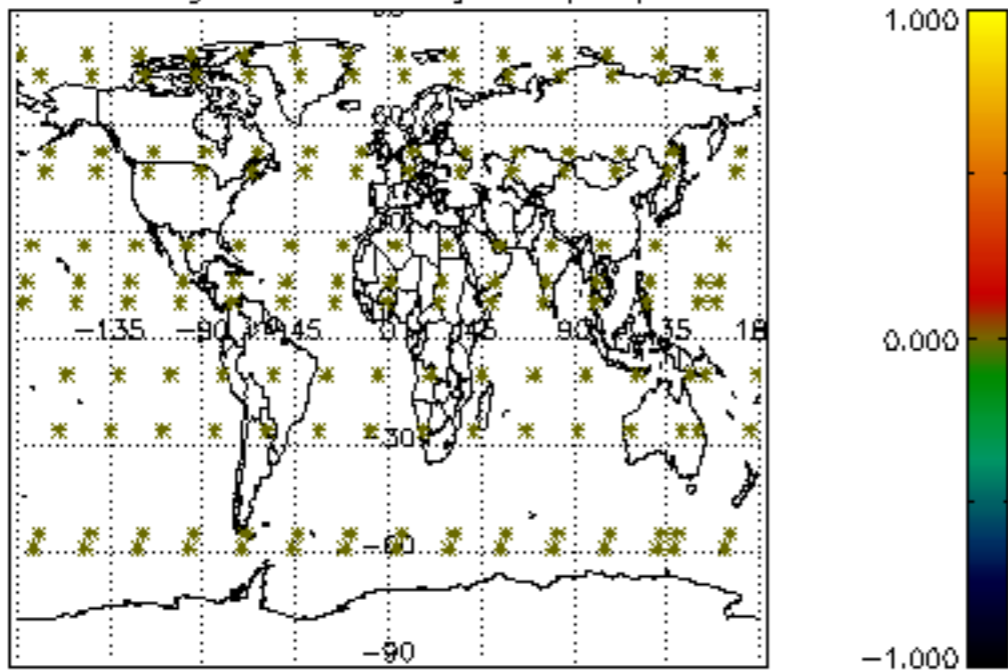
Percentage of star falling outside central band per profile



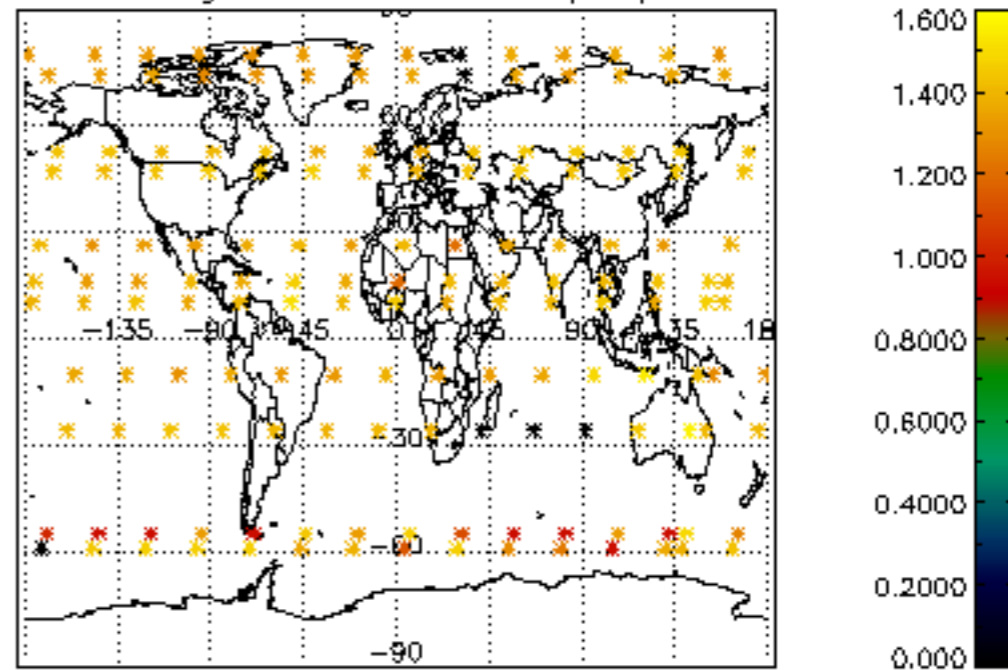
Percentage of saturation errors per profile



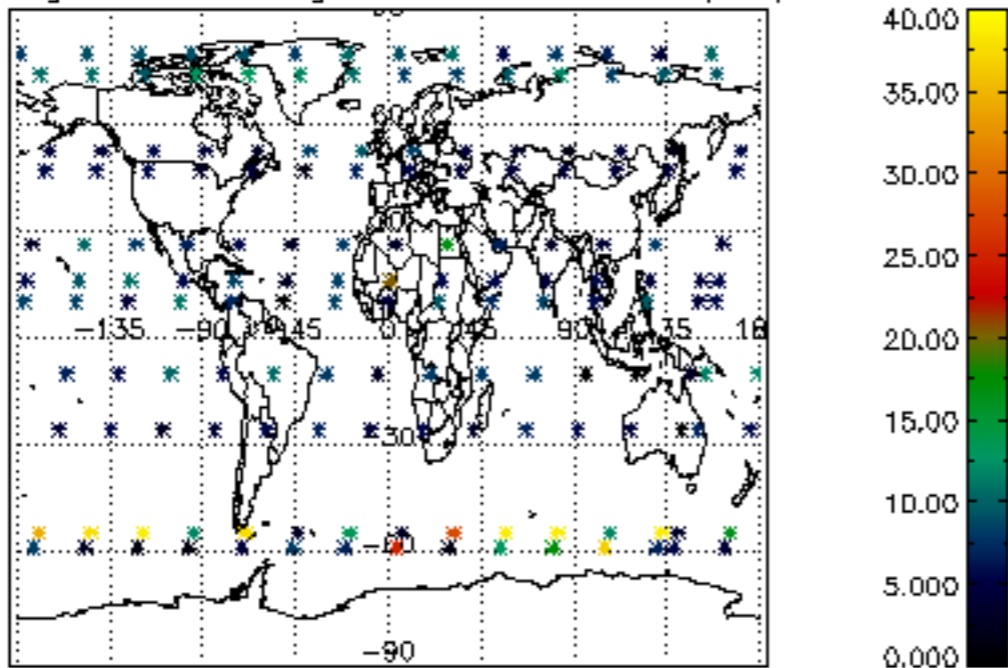
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

